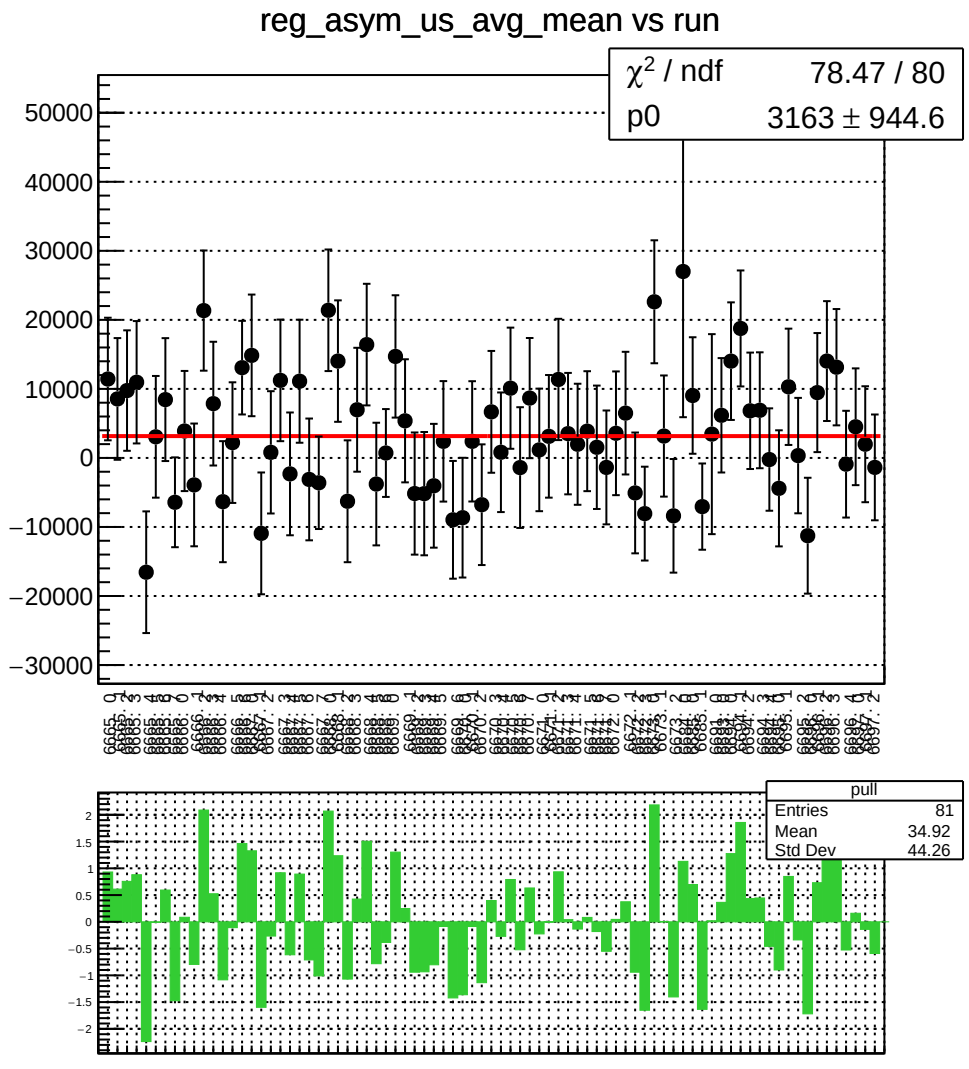
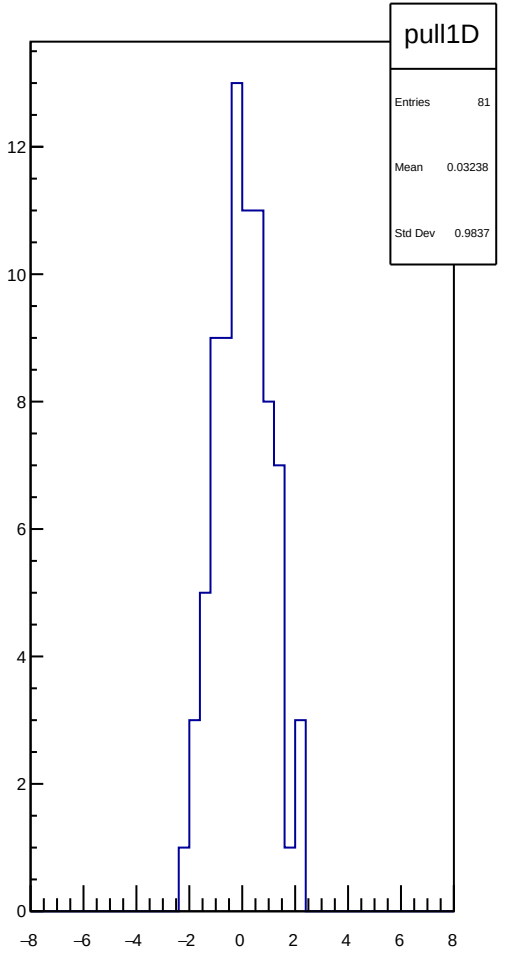
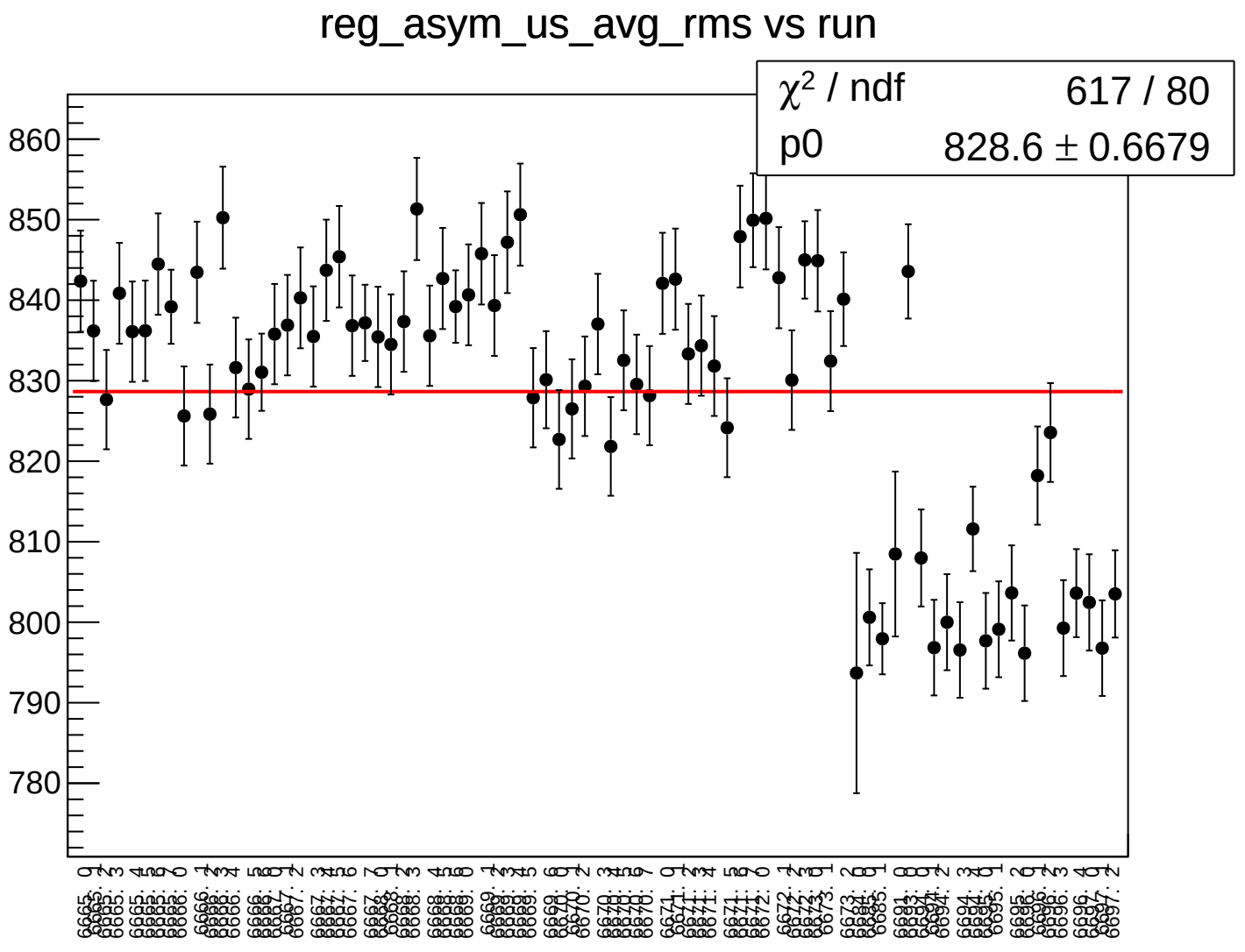
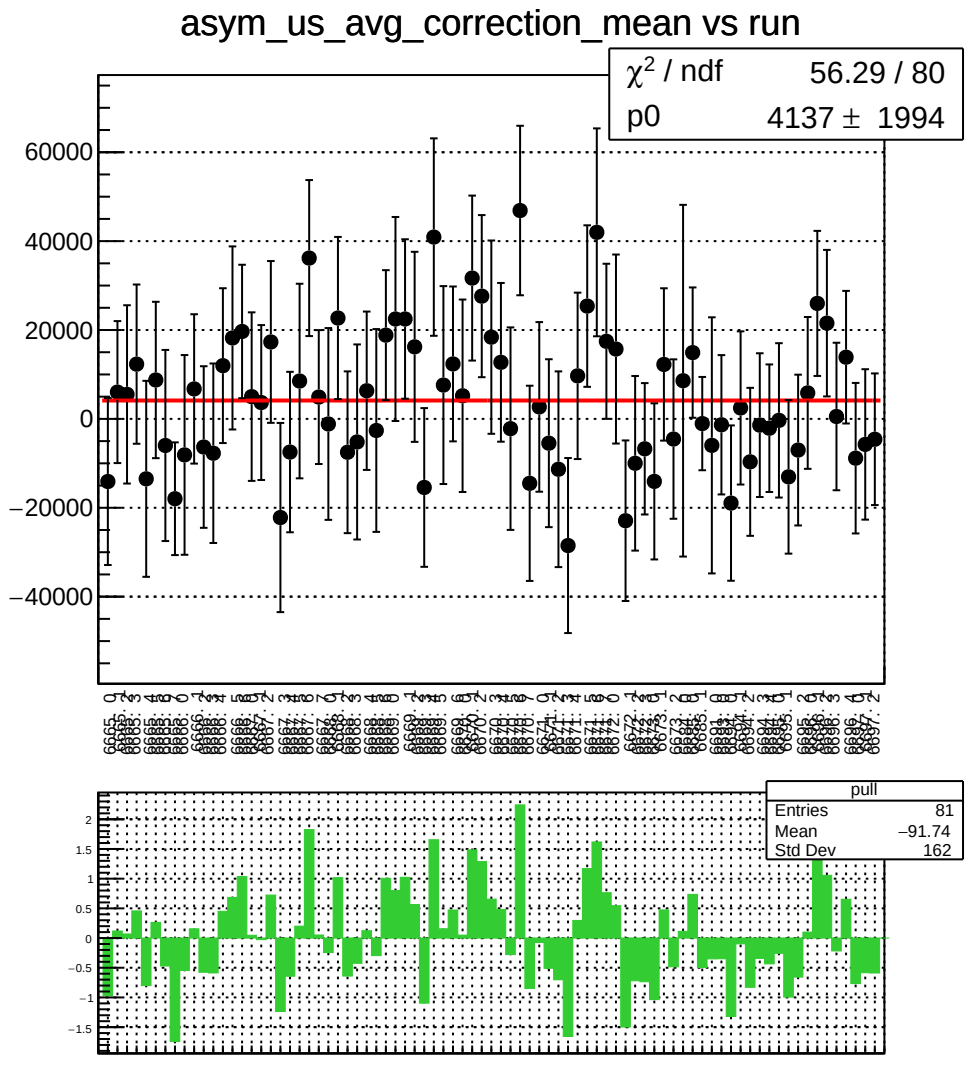
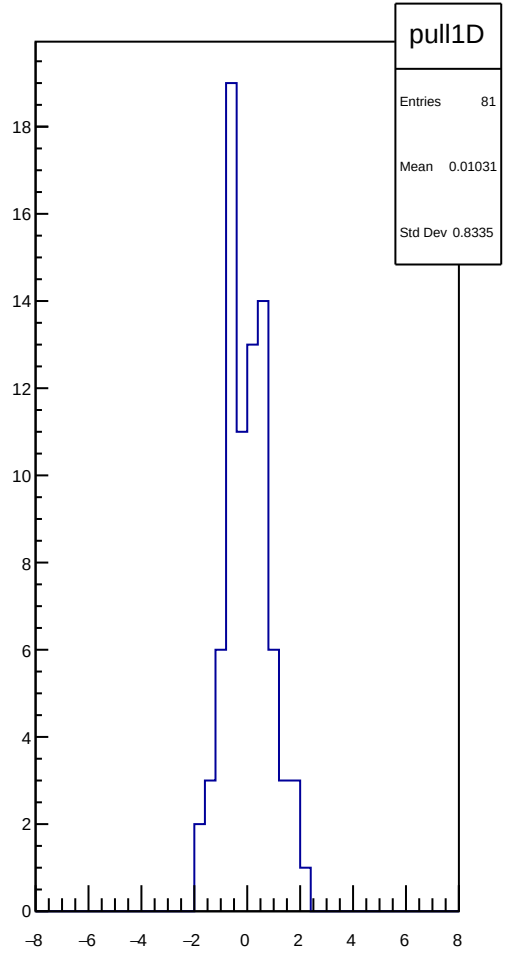
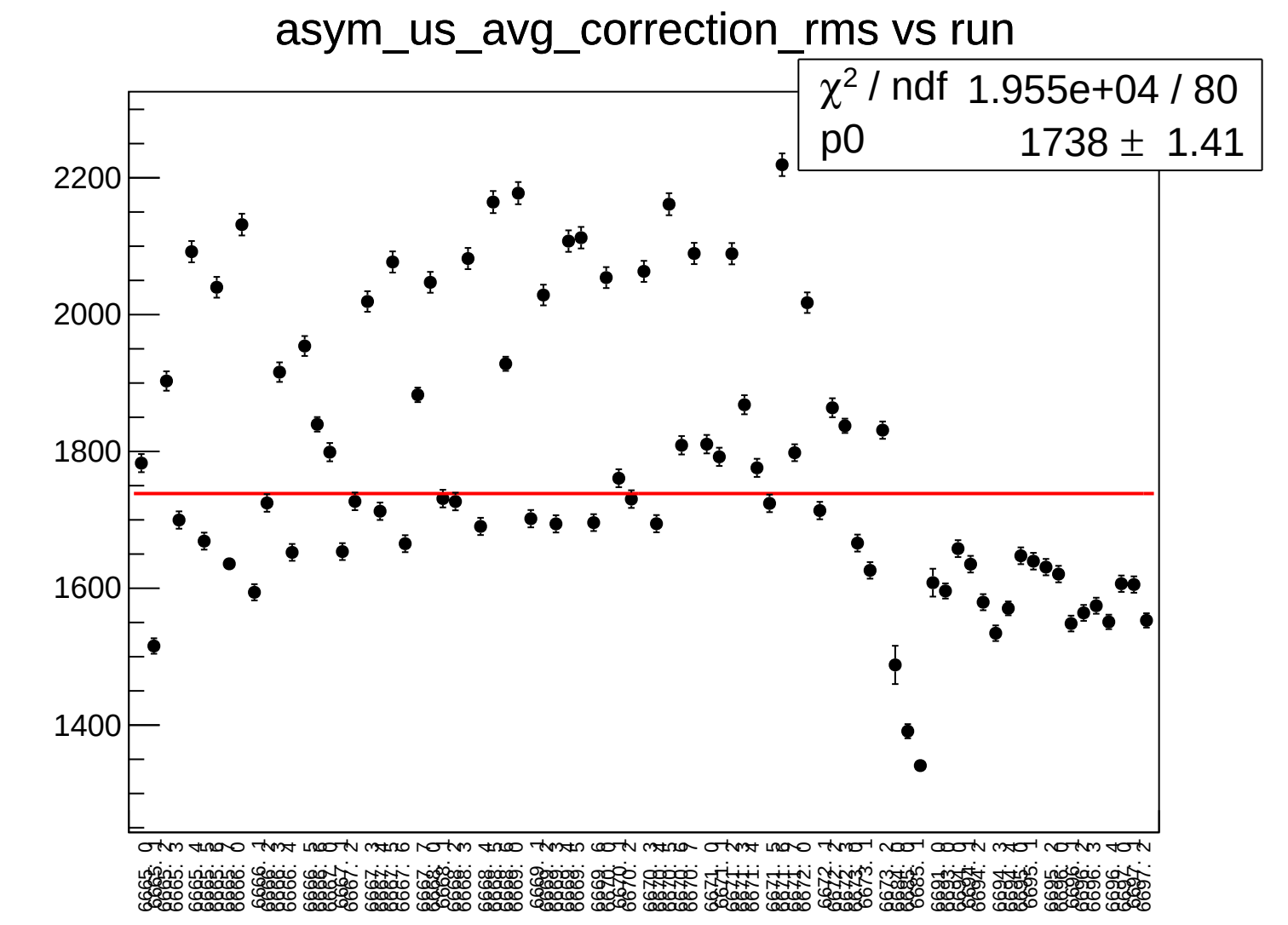

reg_asym_us_avg_mean vs run
χ² / ndf 78.47 / 80
p0 3163 ± 944.6
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 34.92
Std Dev 44.26
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

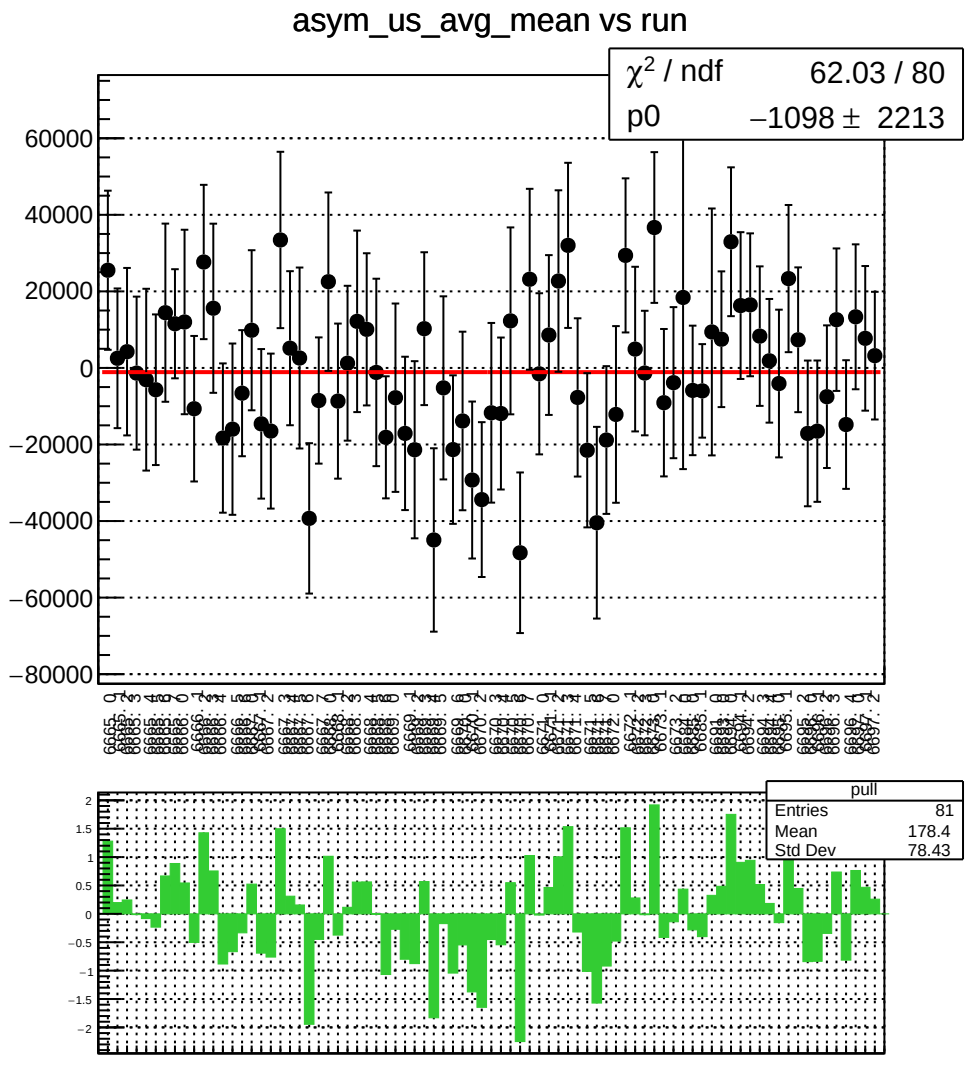

pull1D
Entries 81
Mean 0.03238
Std Dev 0.9837
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

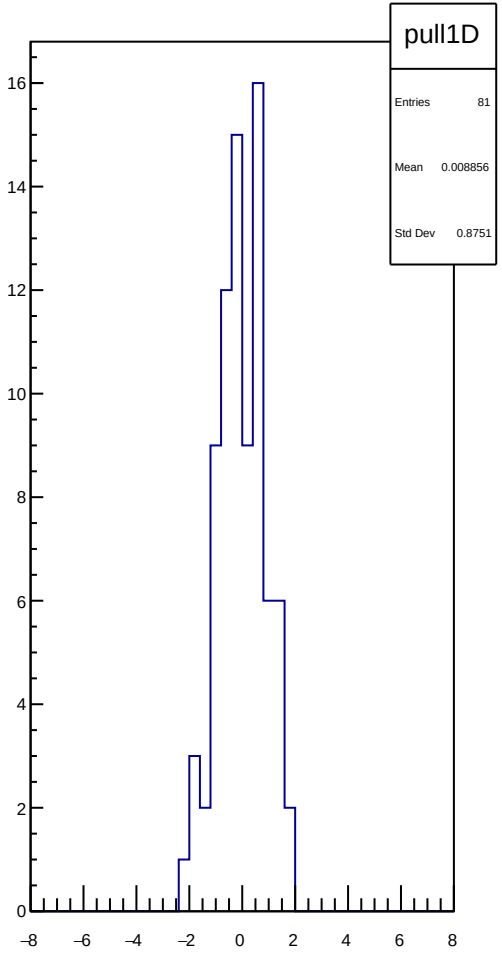

reg_asym_us_avg_rms vs run
χ² / ndf 617 / 80
p0 828.6 ± 0.6679
860
850
840
830
820
810
800
790
780

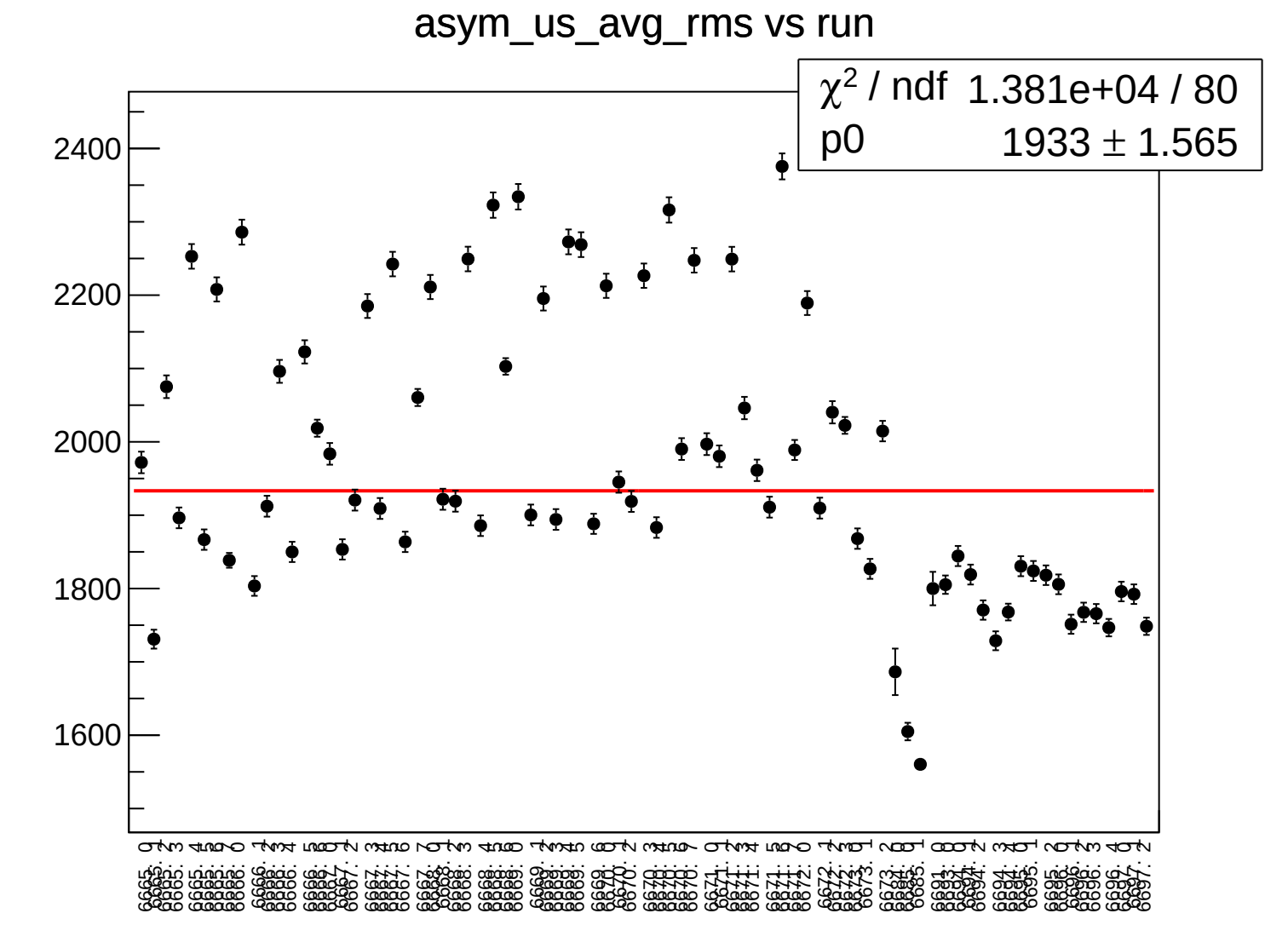

asym_us_avg_correction_mean vs run
χ² / ndf 56.29 / 80
p0 4137 ± 1994
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −91.74
Std Dev 162
2
1.5
1
0.5
0
−0.5
−1
−1.5

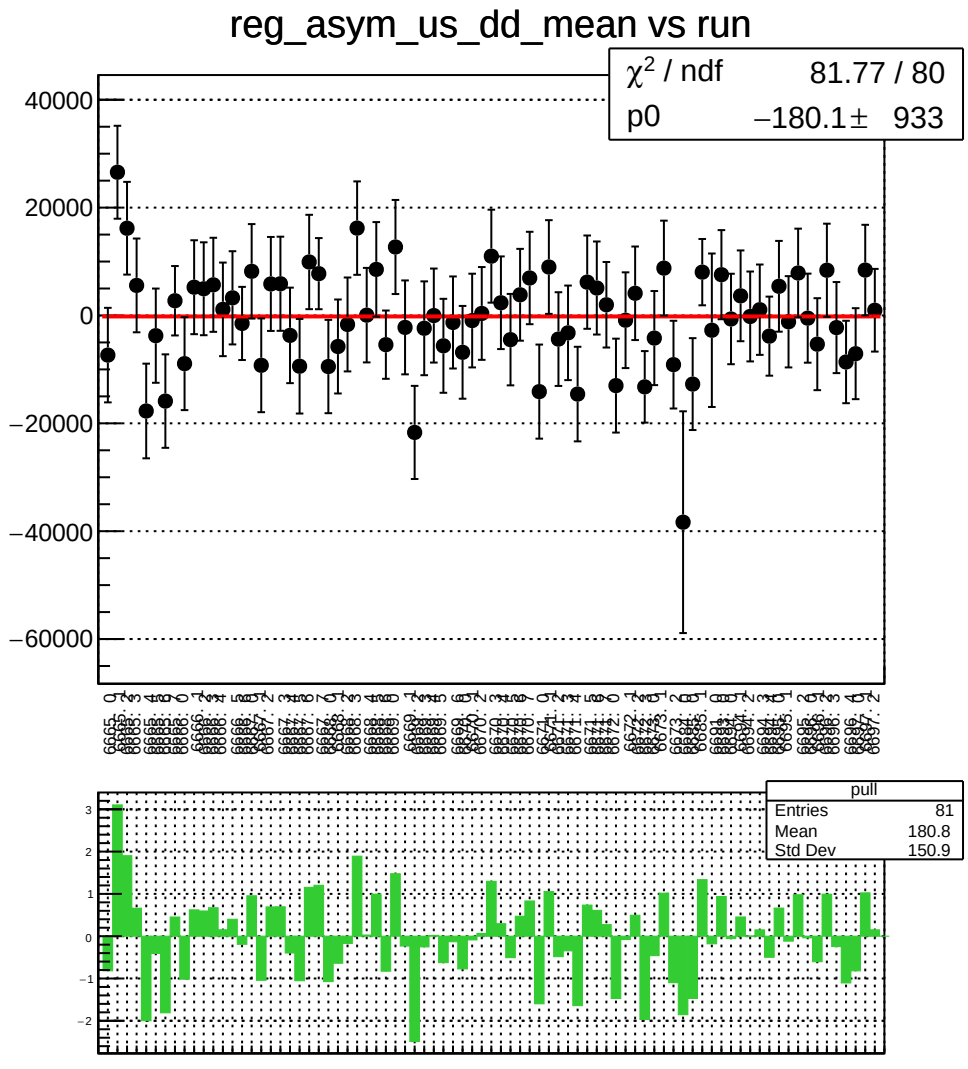

pull1D
Entries 81
Mean 0.01031
Std Dev 0.8335
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

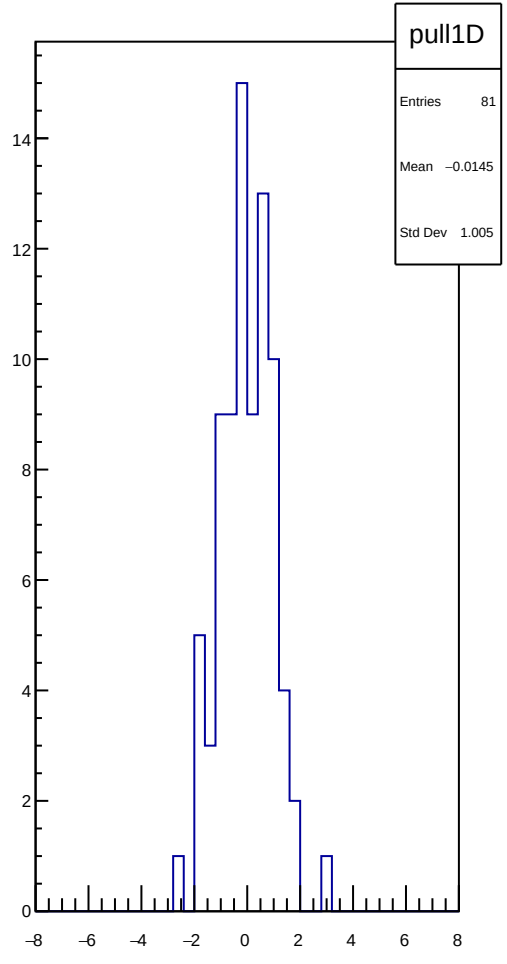

asym_us_avg_correction_rms vs run
χ² / ndf 1.955e+04 / 80
p0 1738 ± 1.41
2200
2000
1800
1600
1400

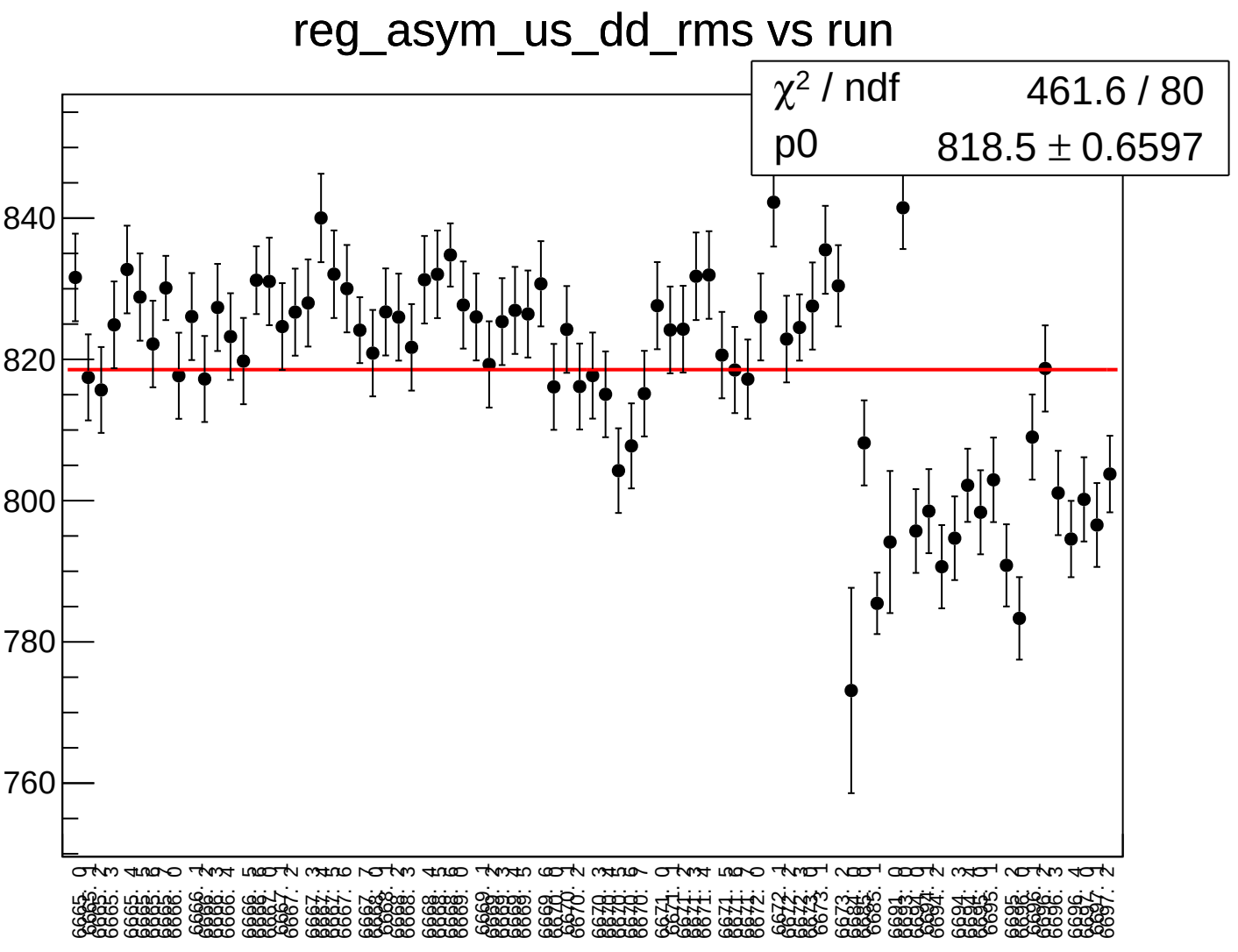

asym_us_avg_mean vs run
χ² / ndf 62.03 / 80
p0 −1098 ± 2213
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean 178.4
Std Dev 78.43
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

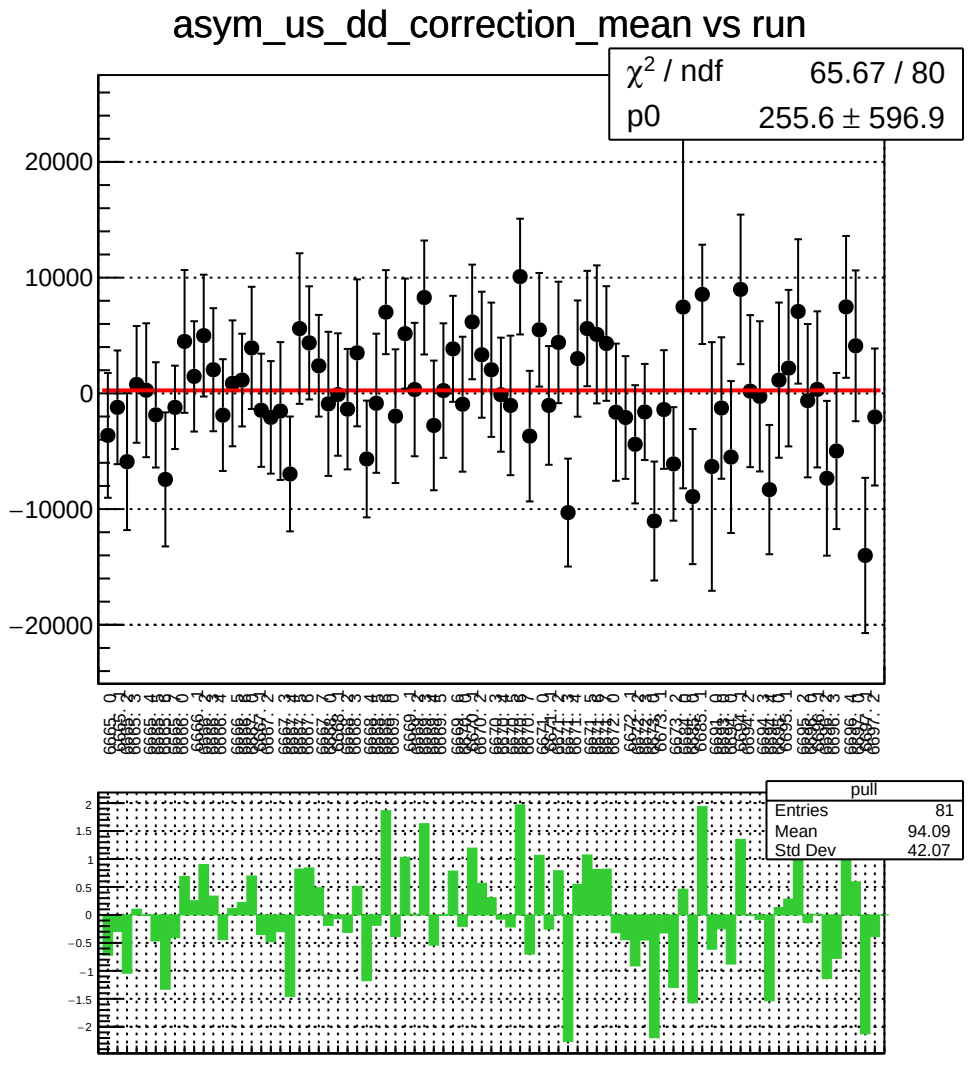

pull1D
Entries 81
Mean 0.008856
Std Dev 0.8751
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

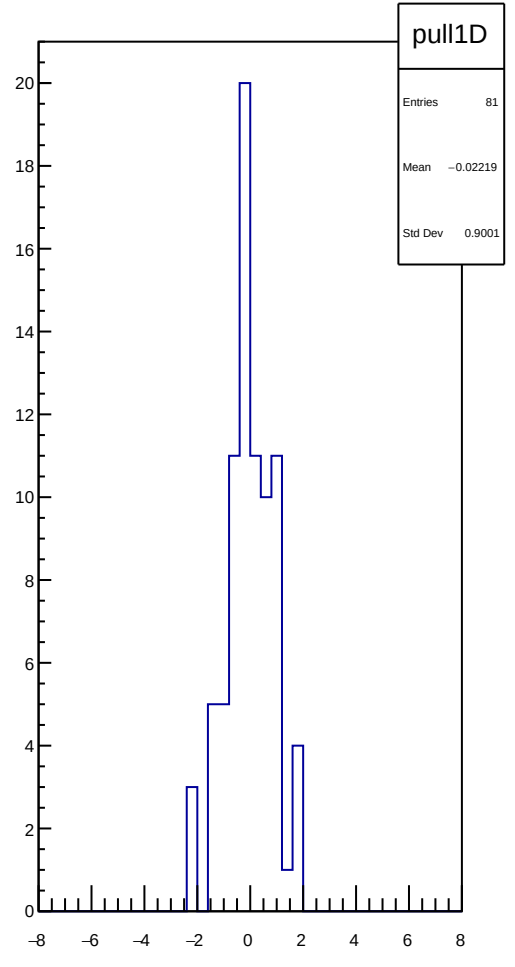

asym_us_avg_rms vs run
χ² / ndf 1.381e+04 / 80
p0 1933 ± 1.565
2400
2200
2000
1800
1600

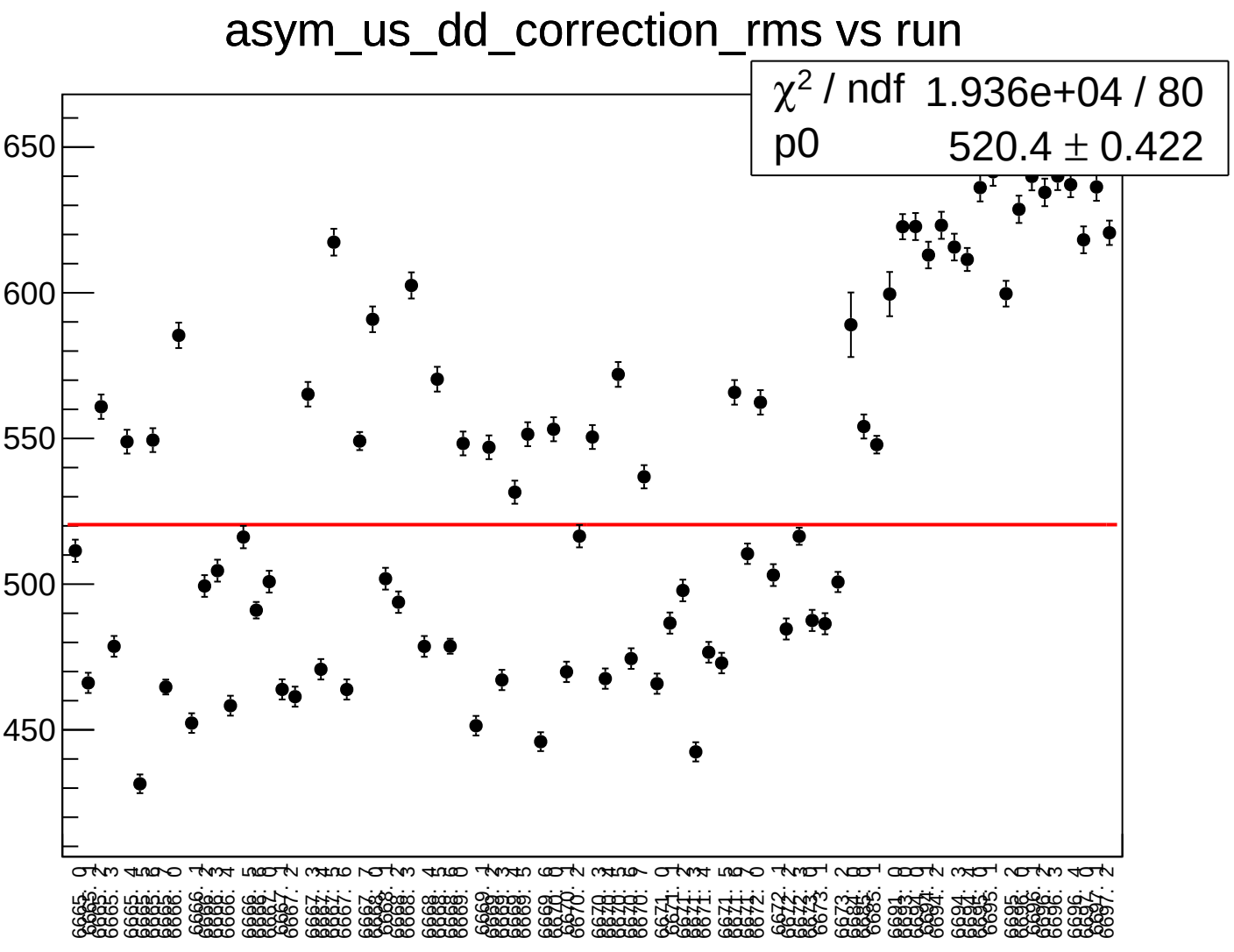

reg_asym_us_dd_mean vs run
χ² / ndf 81.77 / 80
p0 −180.1± 933
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 180.8
Std Dev 150.9
3
2
1
0
−1
−2

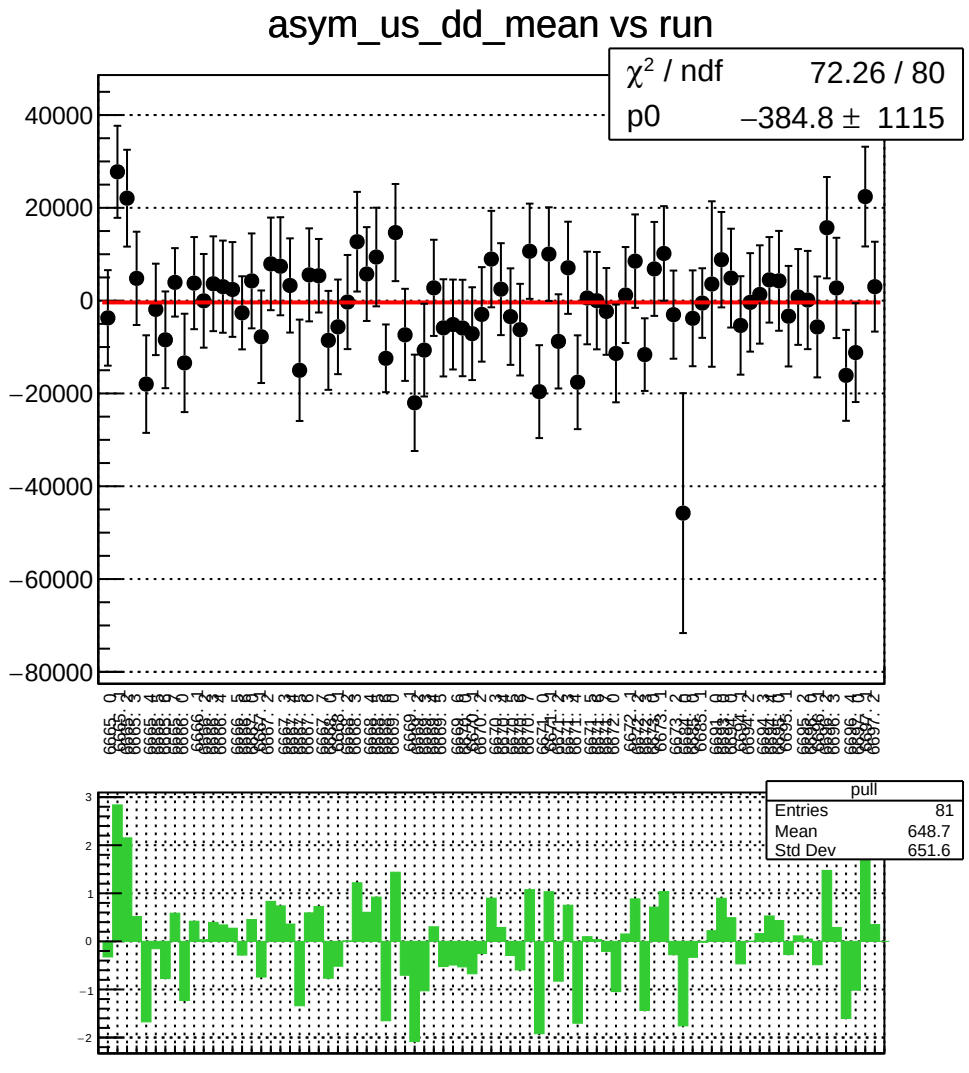

pull1D
Entries 81
Mean −0.0145
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

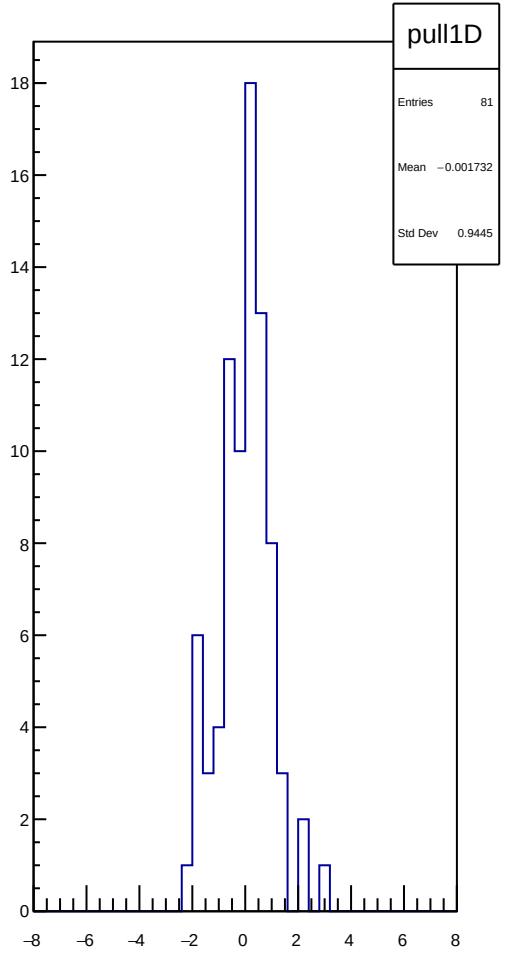

reg_asym_us_dd_rms vs run
χ² / ndf 461.6 / 80
p0 818.5 ± 0.6597
840
820
800
780
760

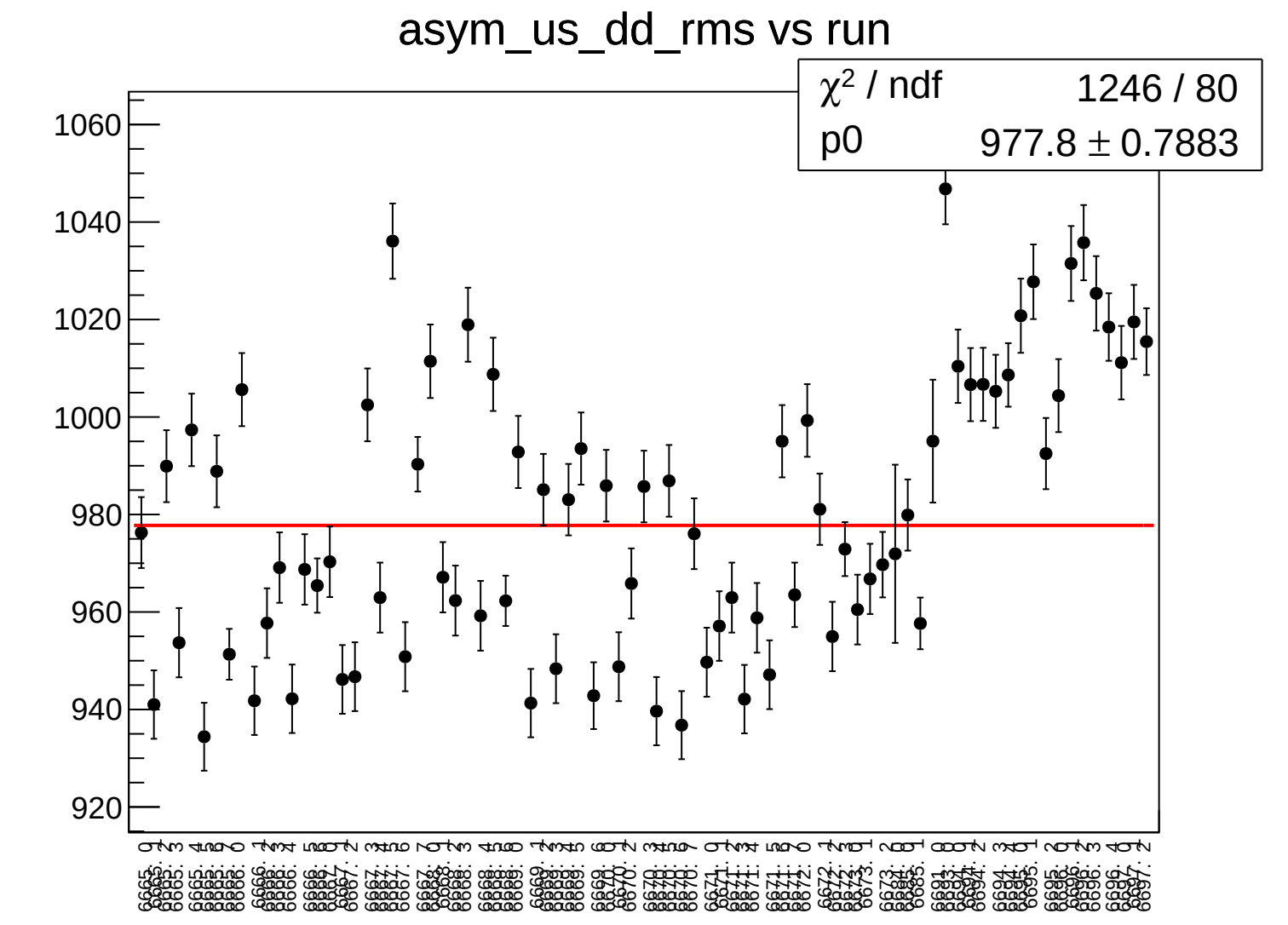

asym_us_dd_correction_mean vs run
χ² / ndf 65.67 / 80
p0 255.6 ± 596.9
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 94.09
Std Dev 42.07
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

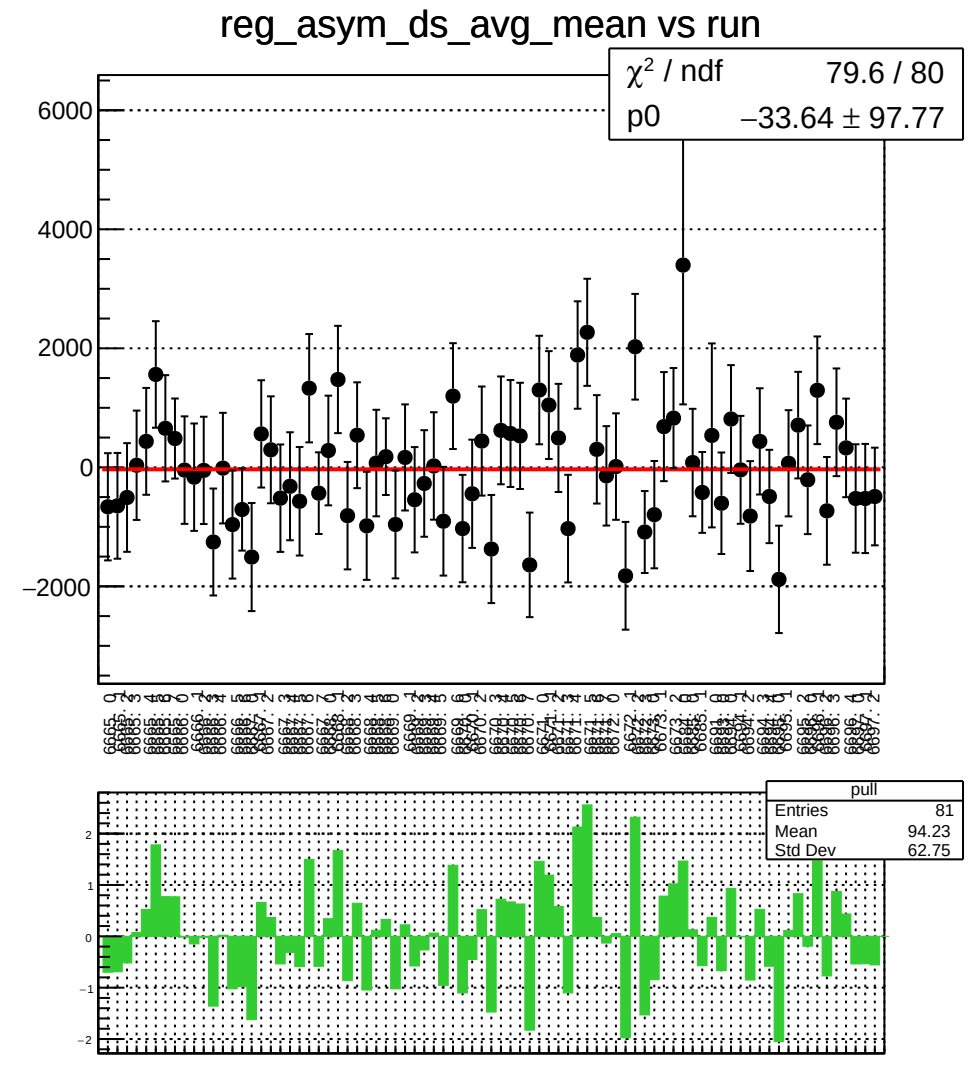

pull1D
Entries 81
Mean −0.02219
Std Dev 0.9001
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

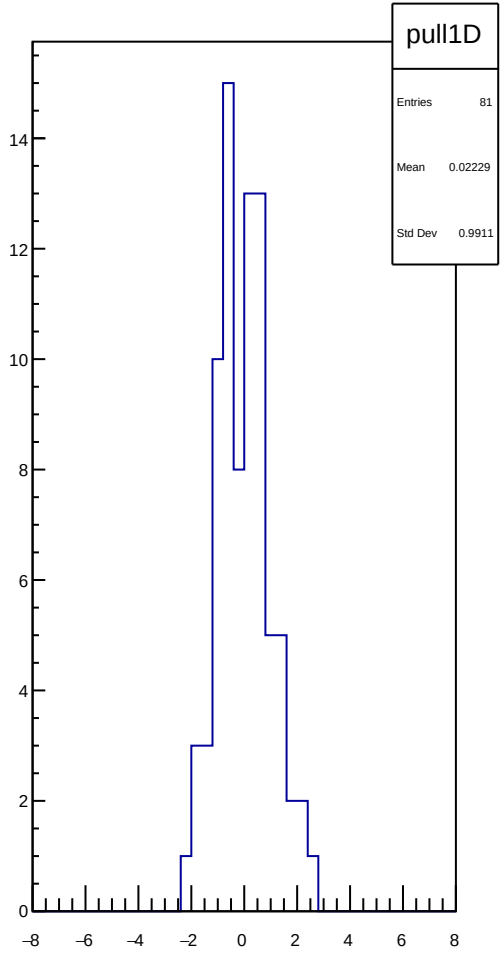

asym_us_dd_correction_rms vs run
χ² / ndf 1.936e+04 / 80
p0 520.4 ± 0.422
650
600
550
500
450

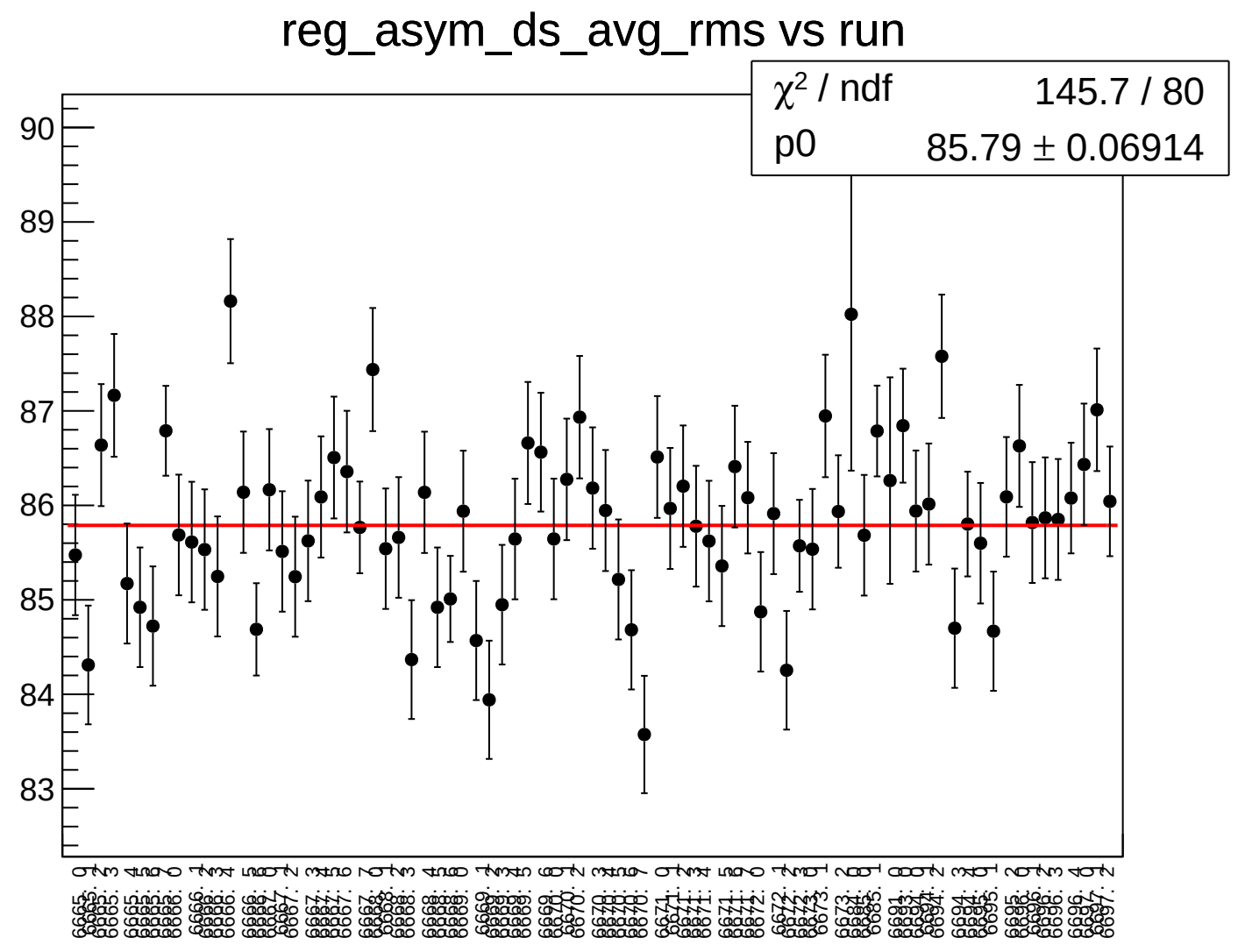

asym_us_dd_mean vs run
χ² / ndf 72.26 / 80
p0 −384.8 ± 1115
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 81
Mean 648.7
Std Dev 651.6
3
2
1
0
−1
−2

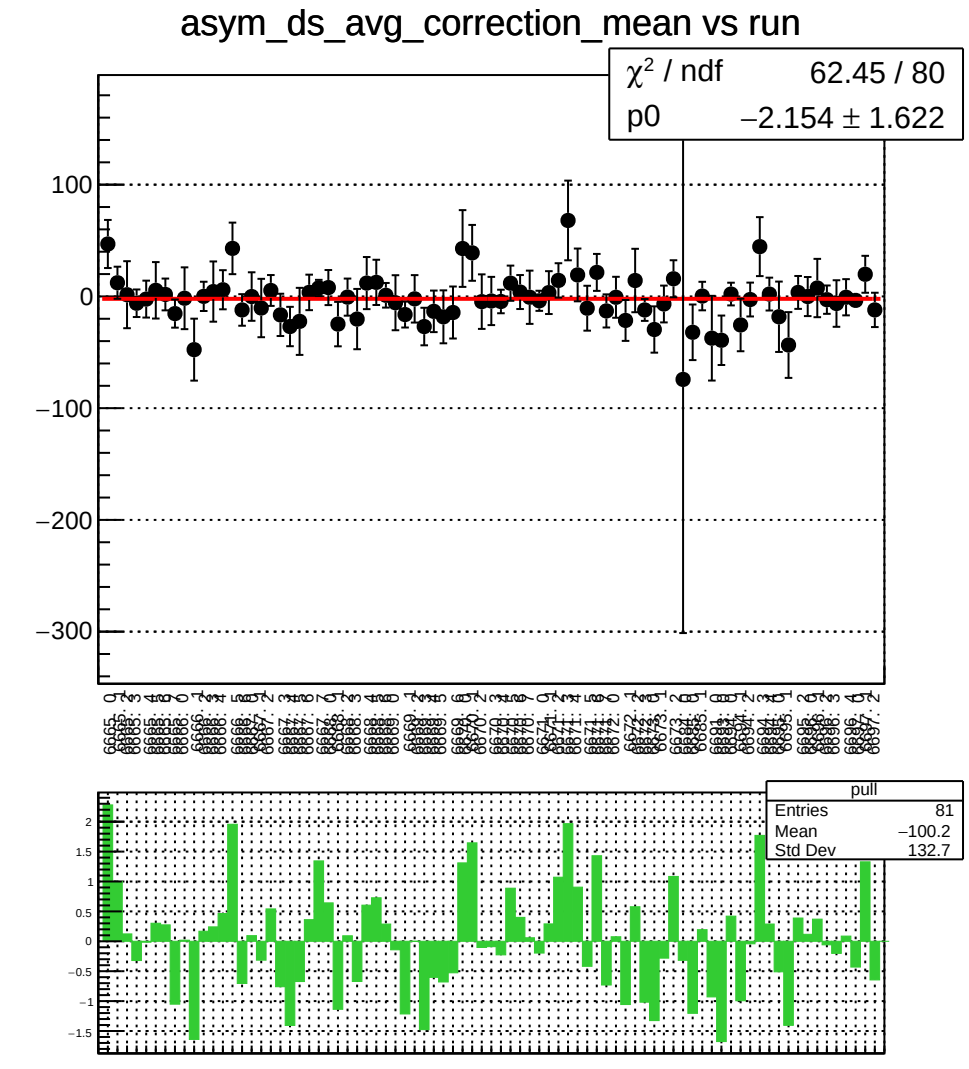

pull1D
Entries 81
Mean −0.001732
Std Dev 0.9445
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

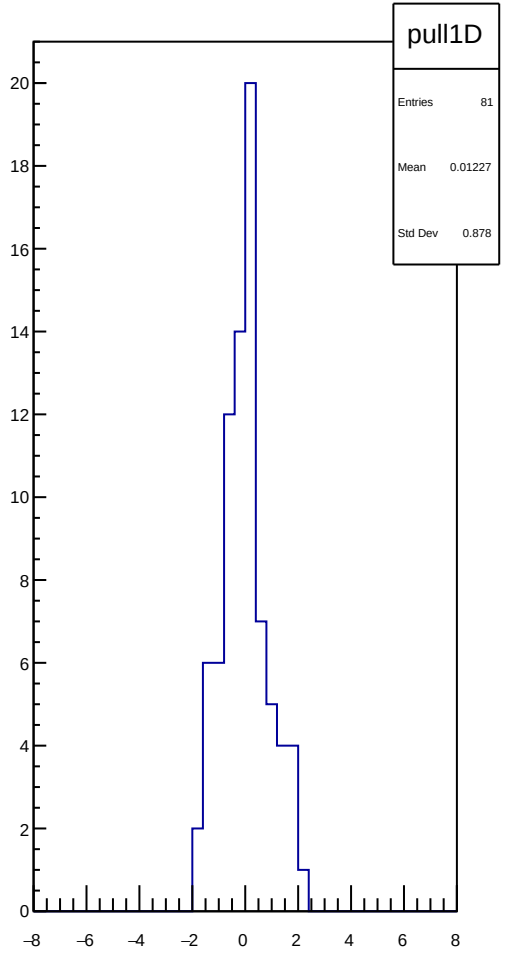

asym_us_dd_rms vs run
χ² / ndf 1246 / 80
p0 977.8 ± 0.7883
1060
1040
1020
1000
980
960
940
920


reg_asym_ds_avg_mean vs run
χ² / ndf 79.6 / 80
p0 −33.64 ± 97.77
6000
4000
2000
0
−2000
pull
Entries 81
Mean 94.23
Std Dev 62.75
2
1
0
−1
−2

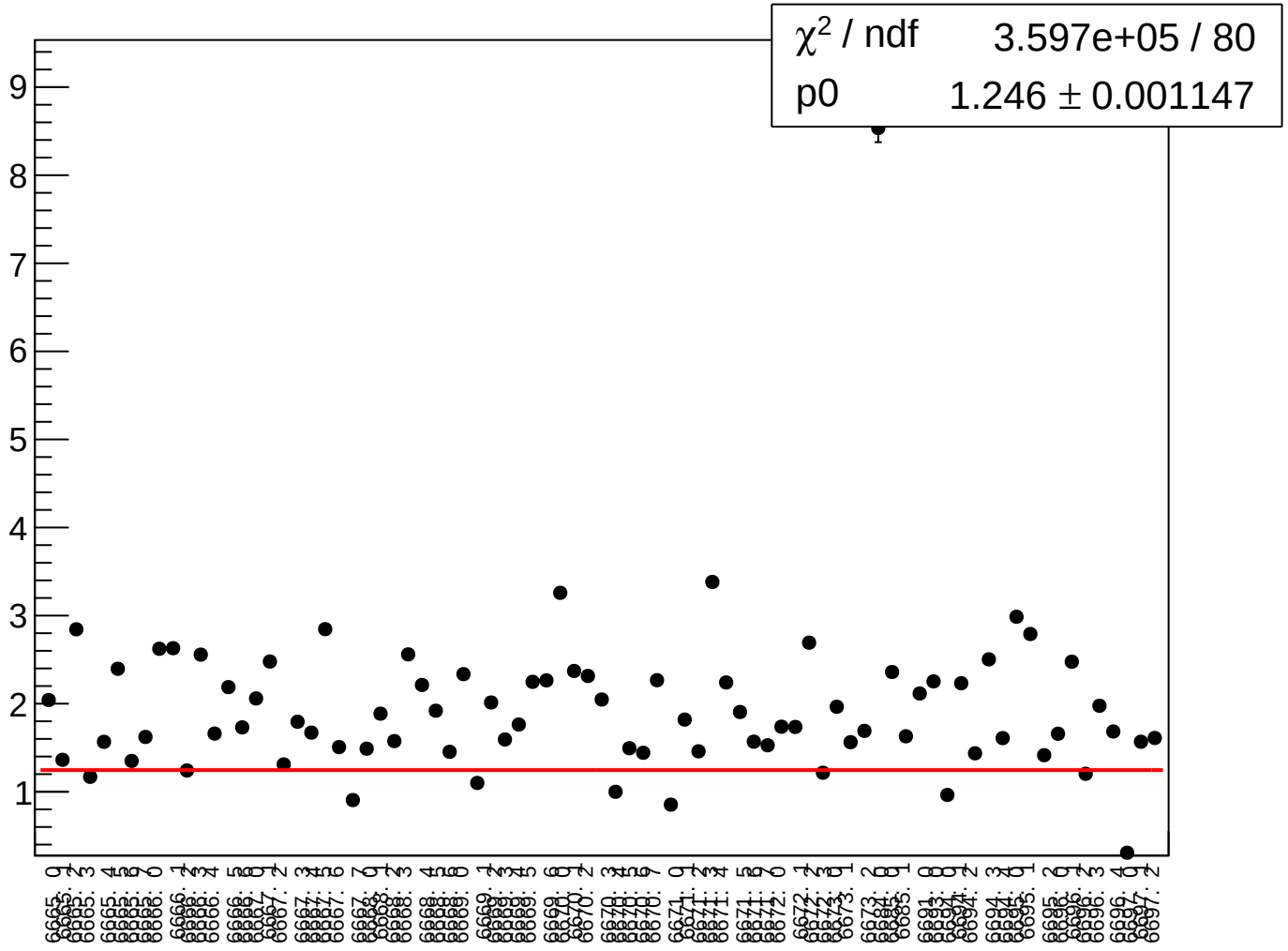

pull1D
Entries 81
Mean 0.02229
Std Dev 0.9911
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

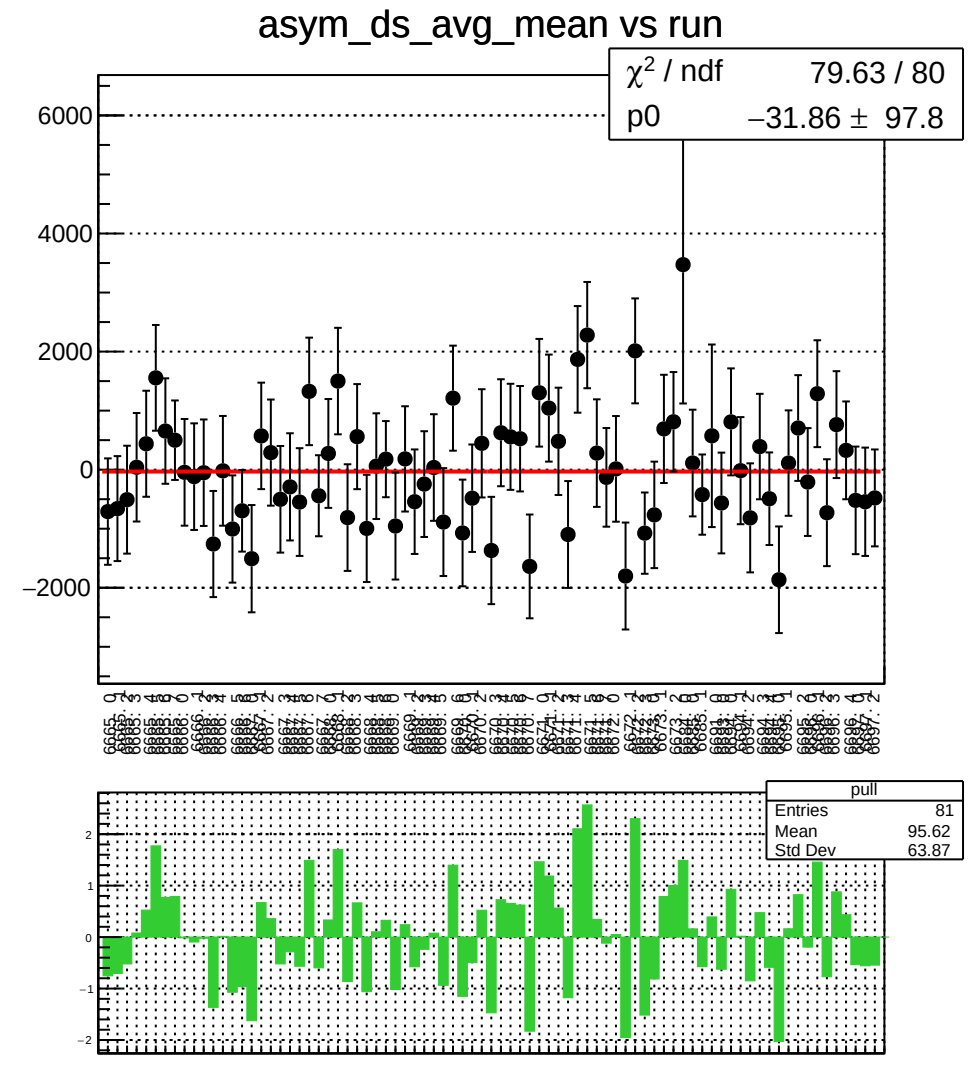

reg_asym_ds_avg_rms vs run
χ² / ndf 145.7 / 80
p0 85.79 ± 0.06914
90
89
88
87
86
85
84
83

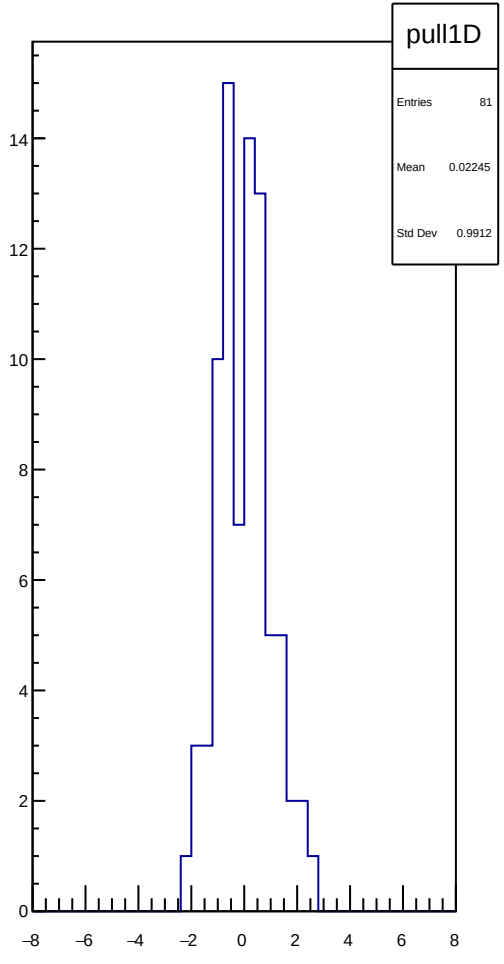

asym_ds_avg_correction_mean vs run
χ² / ndf 62.45 / 80
p0 −2.154 ± 1.622
100
0
−100
−200
−300
pull
Entries 81
Mean −100.2
Std Dev 132.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

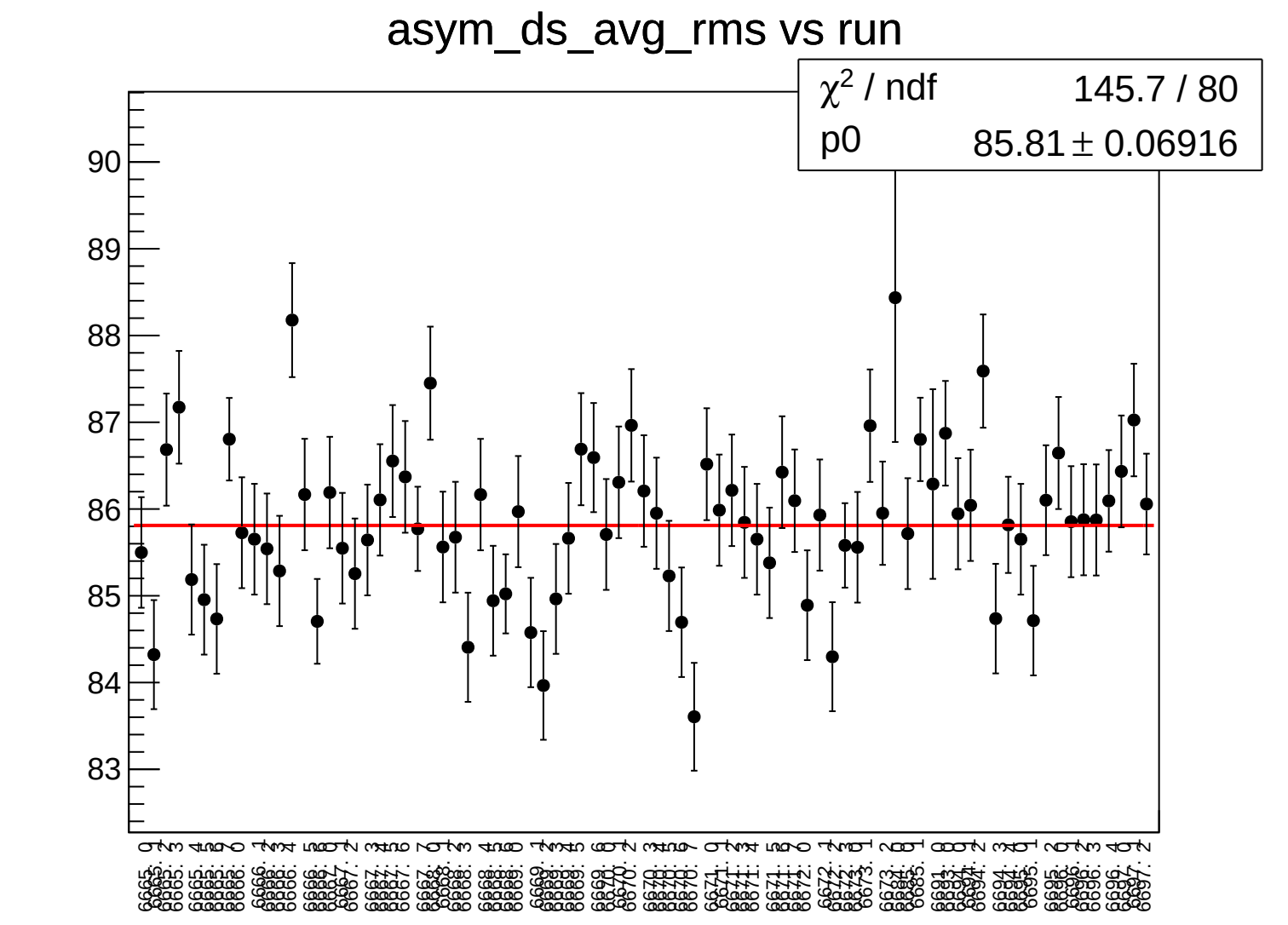

pull1D
Entries 81
Mean 0.01227
Std Dev 0.878
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

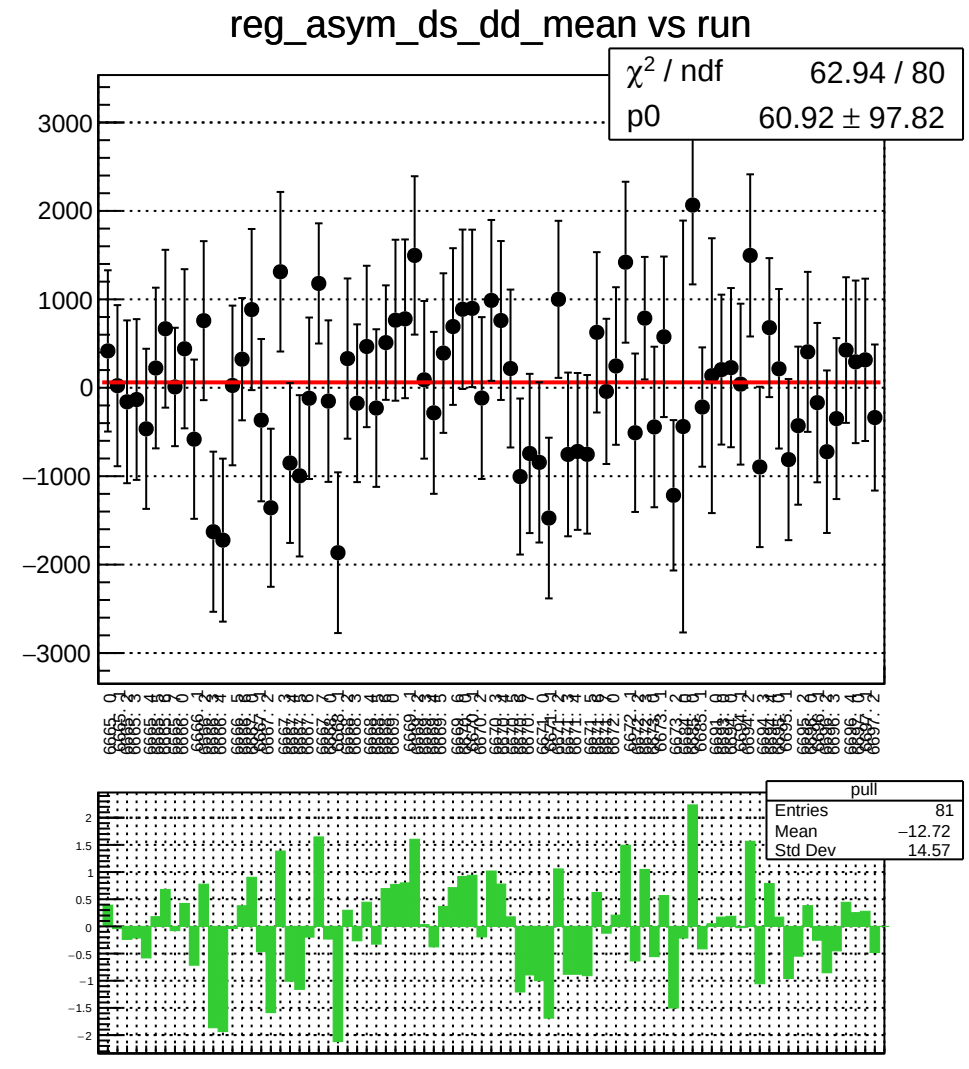
asym_ds_avg_correction_rms vs run

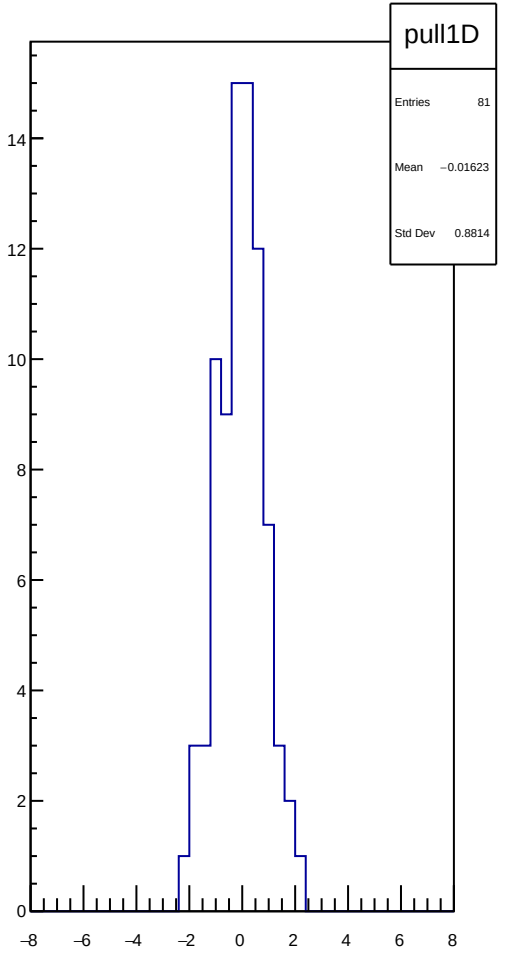


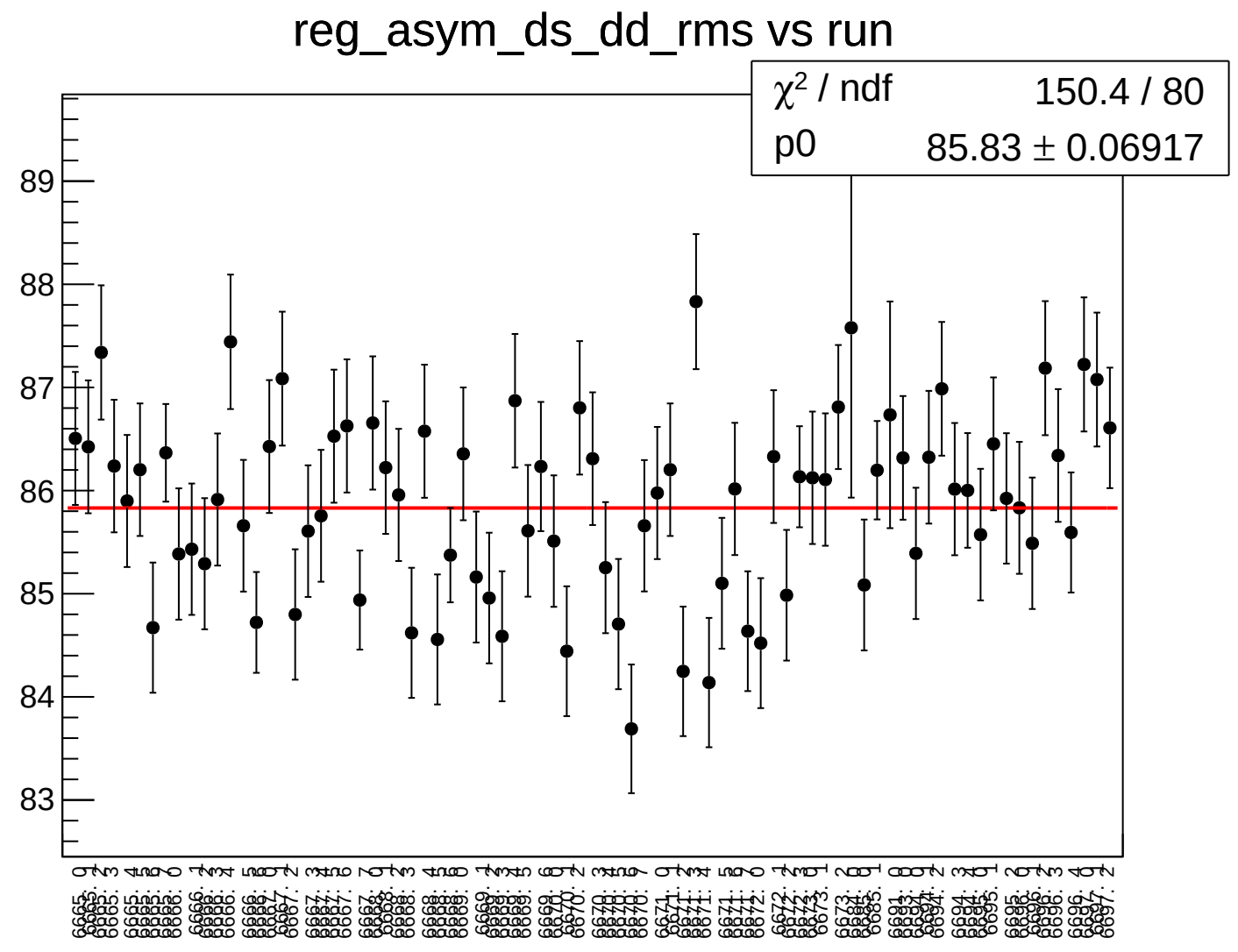

asym_ds_avg_mean vs run
χ² / ndf 79.63 / 80
p0 −31.86 ± 97.8
6000
4000
2000
0
−2000
pull
Entries 81
Mean 95.62
Std Dev 63.87
2
1
0
−1
−2

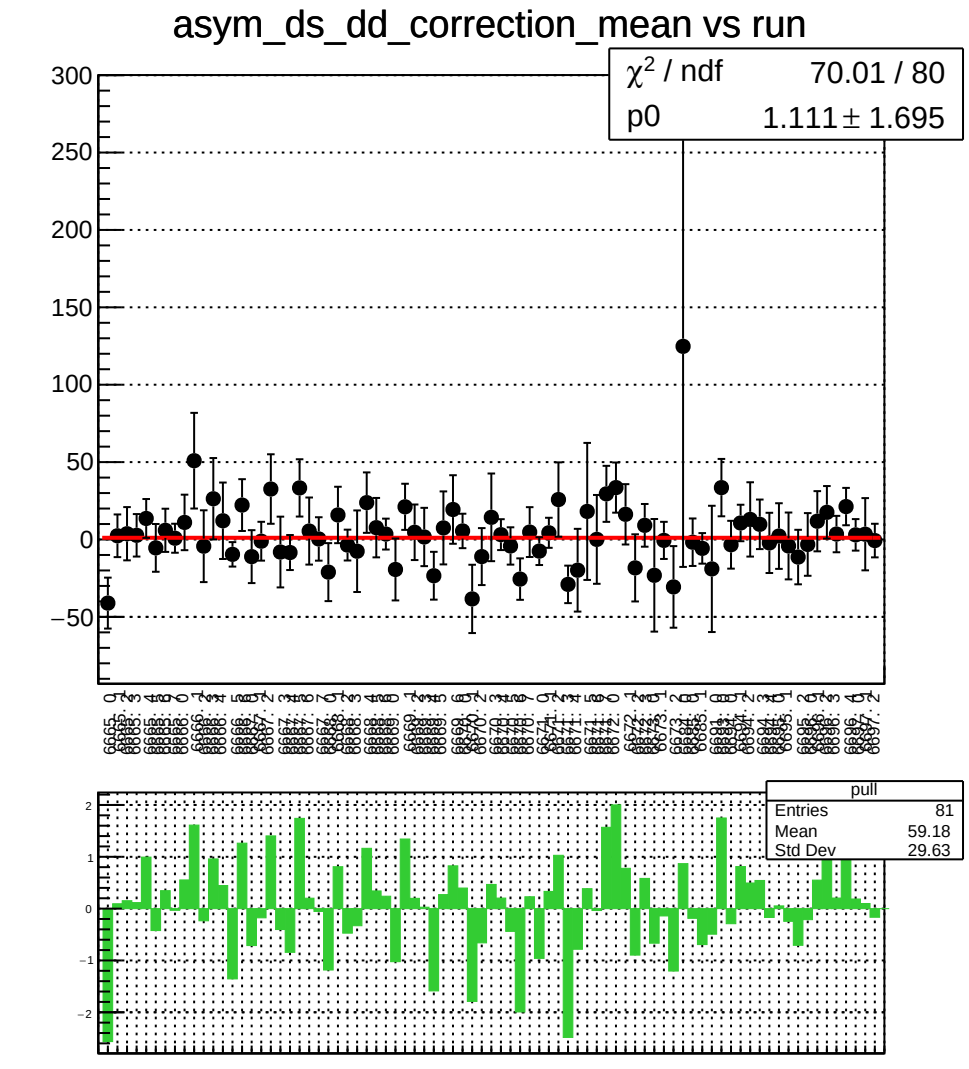

pull1D
Entries 81
Mean 0.02245
Std Dev 0.9912
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

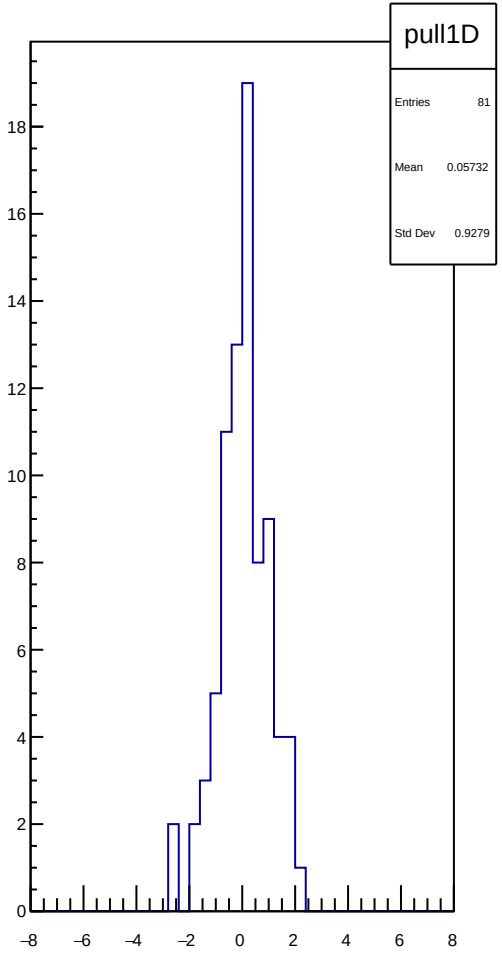

asym_ds_avg_rms vs run
χ^2 / ndf 145.7 / 80
p0 85.81 ± 0.06916
90
89
88
87
86
85
84
83

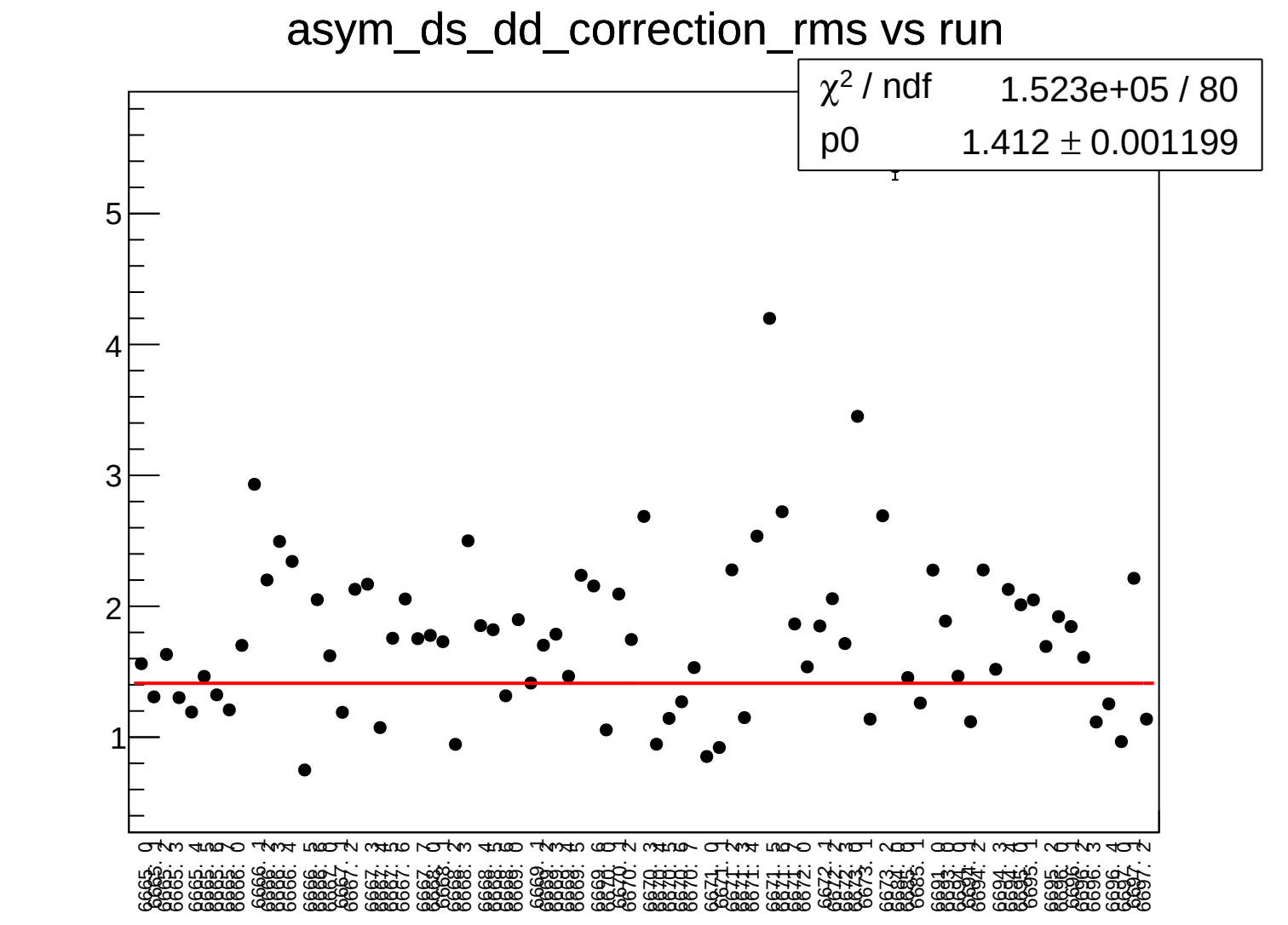

reg_asym_ds_dd_mean vs run
χ² / ndf 62.94 / 80
p0 60.92 ± 97.82
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean −12.72
Std Dev 14.57
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

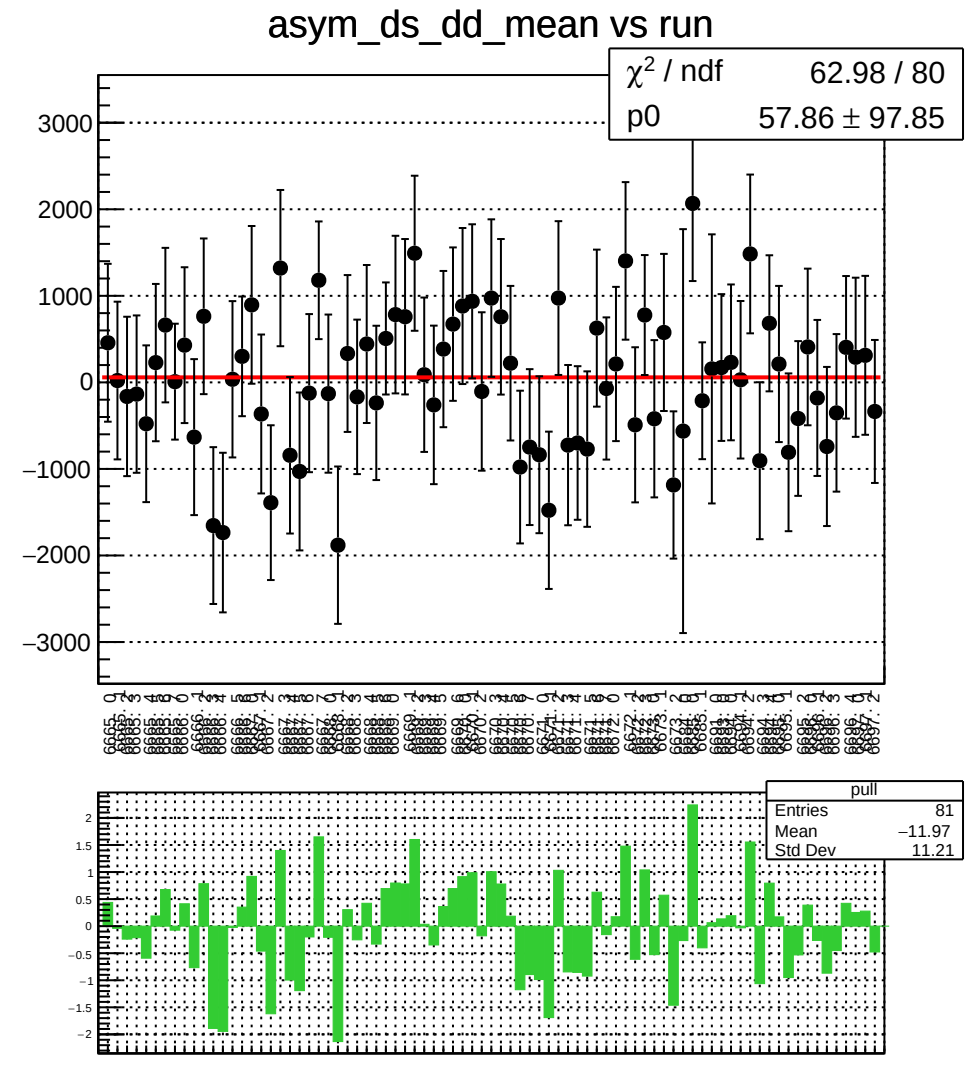

pull1D
Entries 81
Mean −0.01623
Std Dev 0.8814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

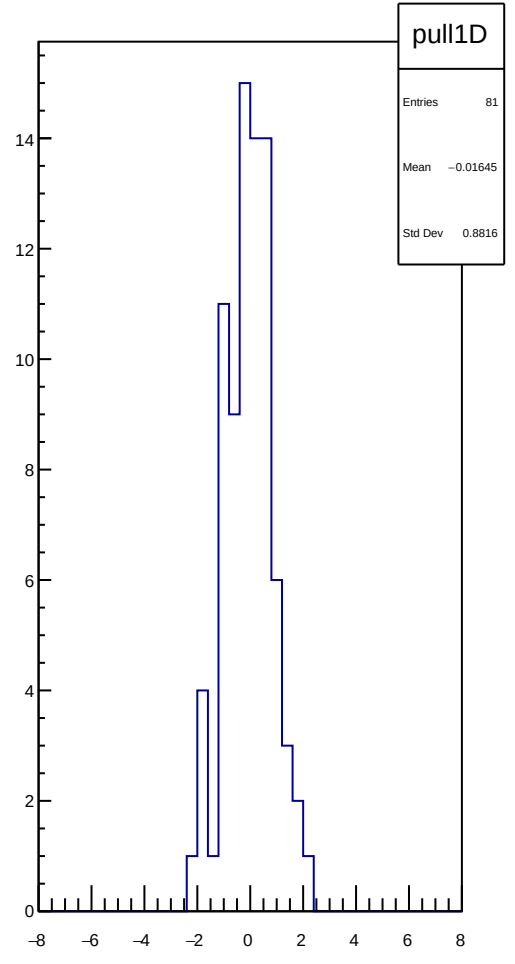

reg_asym_ds_dd_rms vs run
χ² / ndf 150.4 / 80
p0 85.83 ± 0.06917
89
88
87
86
85
84
83

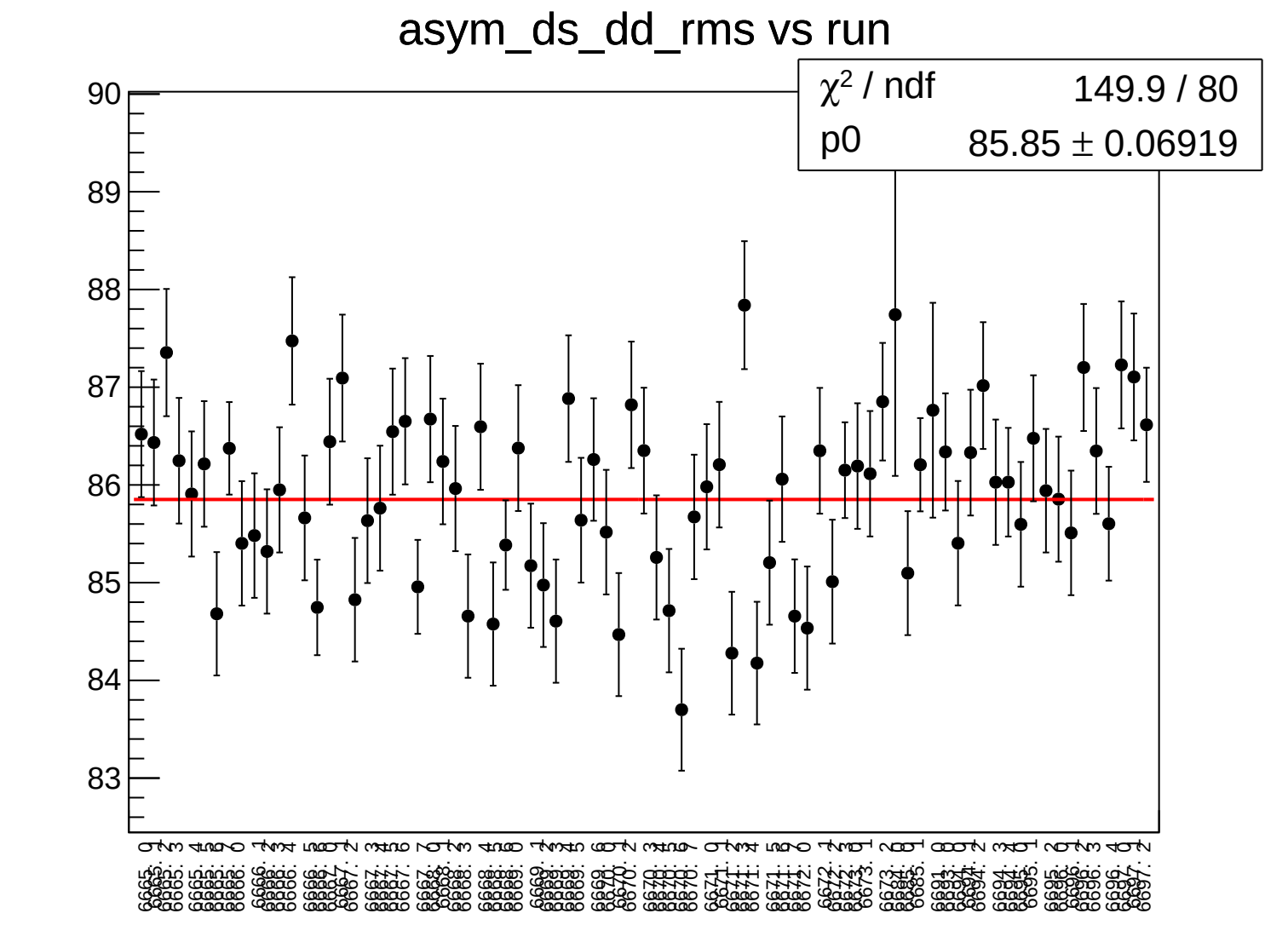

asym_ds_dd_correction_mean vs run
χ² / ndf 70.01 / 80
p0 1.111 ± 1.695
pull
Entries 81
Mean 59.18
Std Dev 29.63

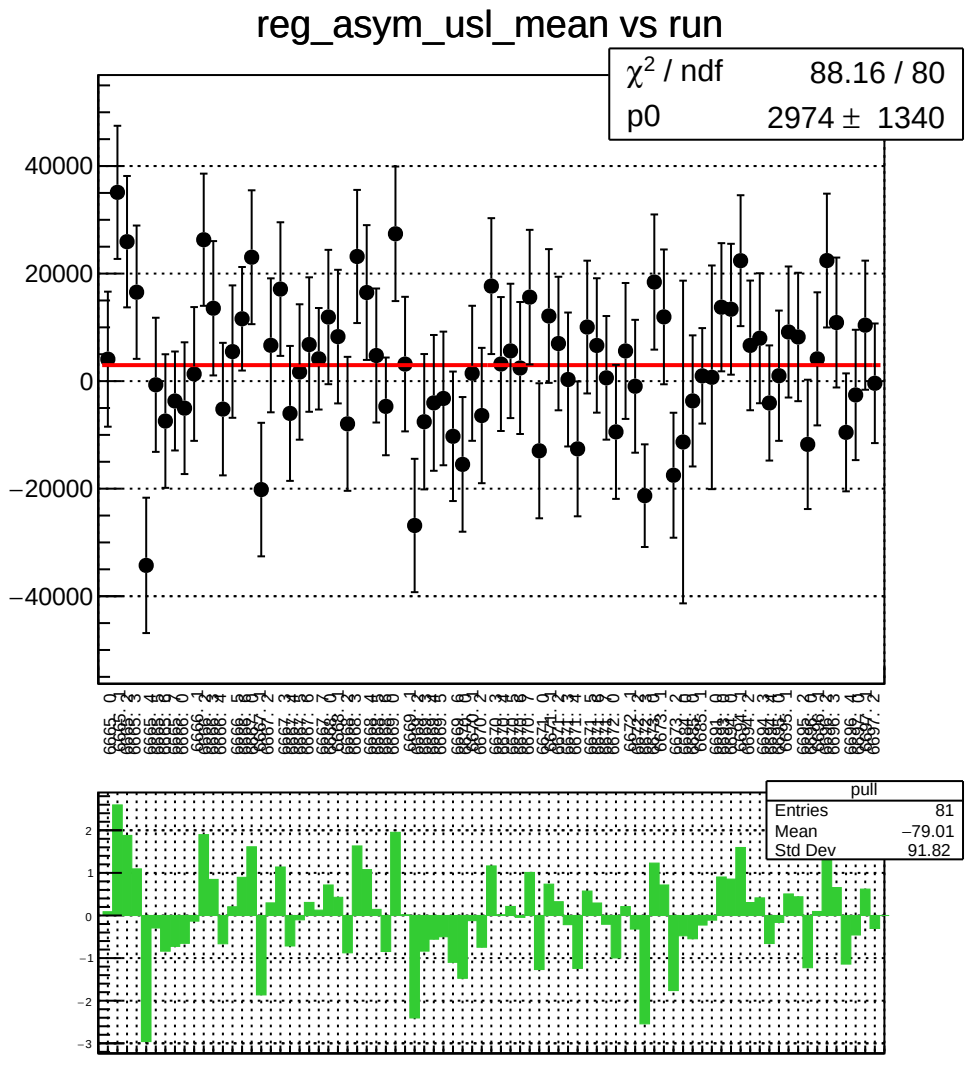

pull1D
Entries 81
Mean 0.05732
Std Dev 0.9279

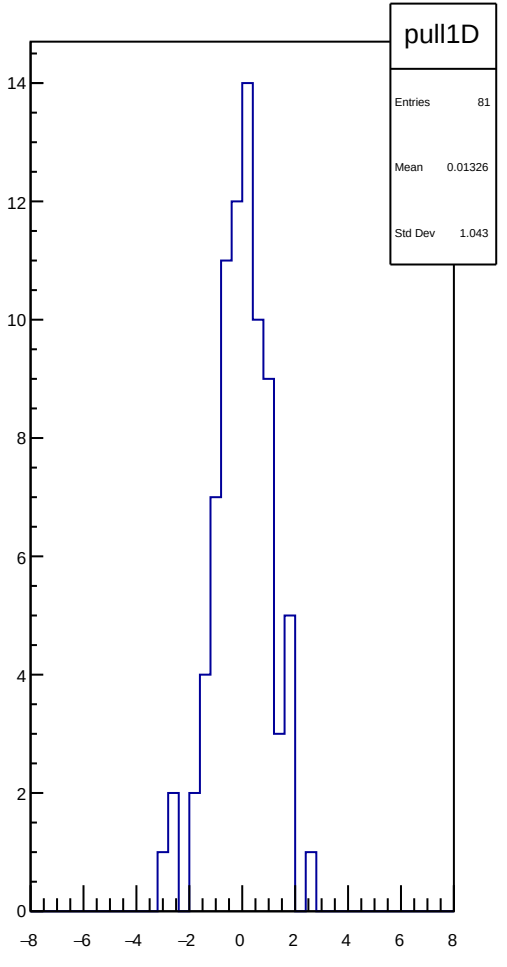

asym_ds_dd_correction_rms vs run
χ² / ndf 1.523e+05 / 80
p0 1.412 ± 0.001199
5
4
3
2
1

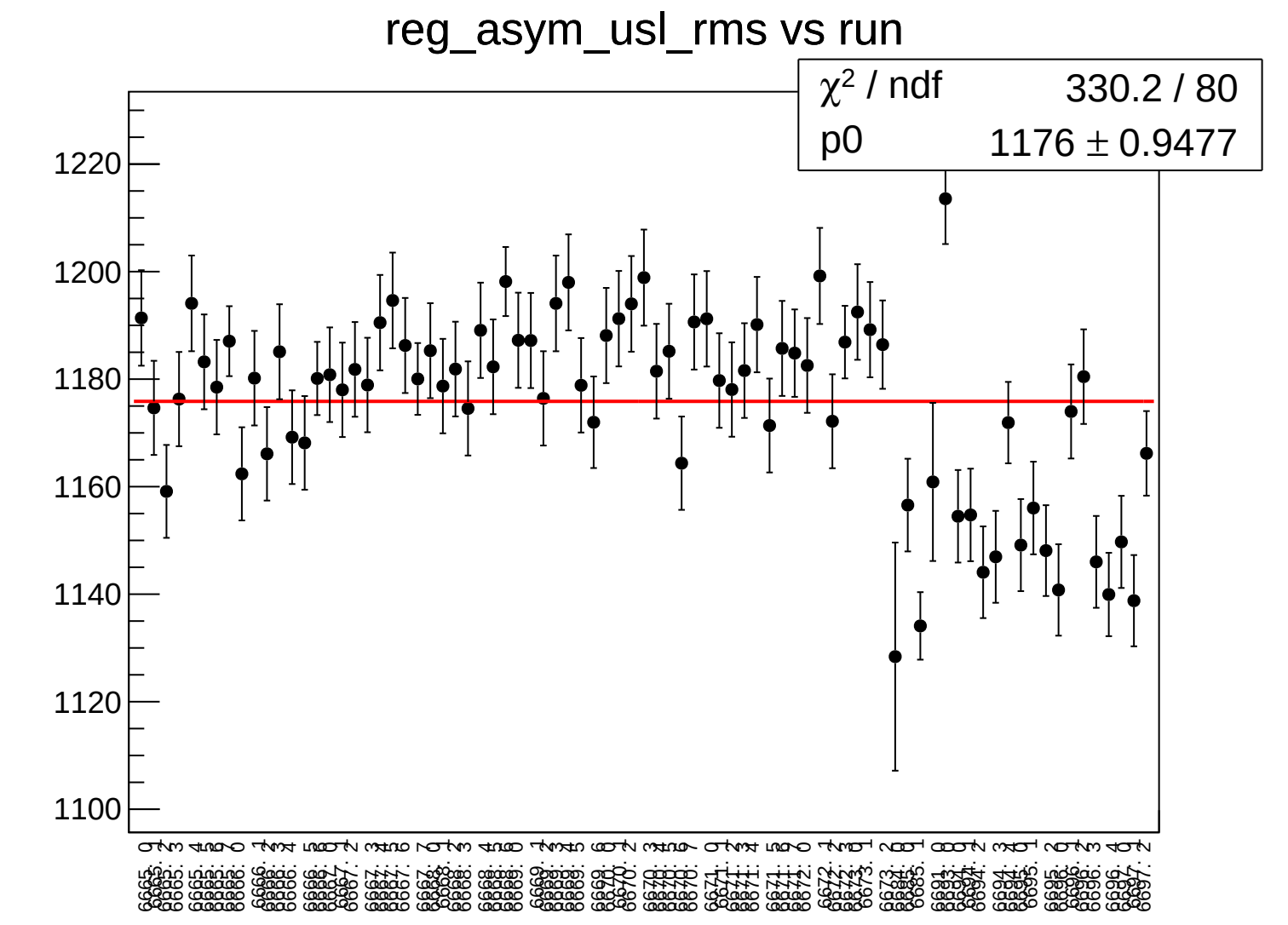

asym_ds_dd_mean vs run
χ² / ndf 62.98 / 80
p0 57.86 ± 97.85
pull
Entries 81
Mean −11.97
Std Dev 11.21

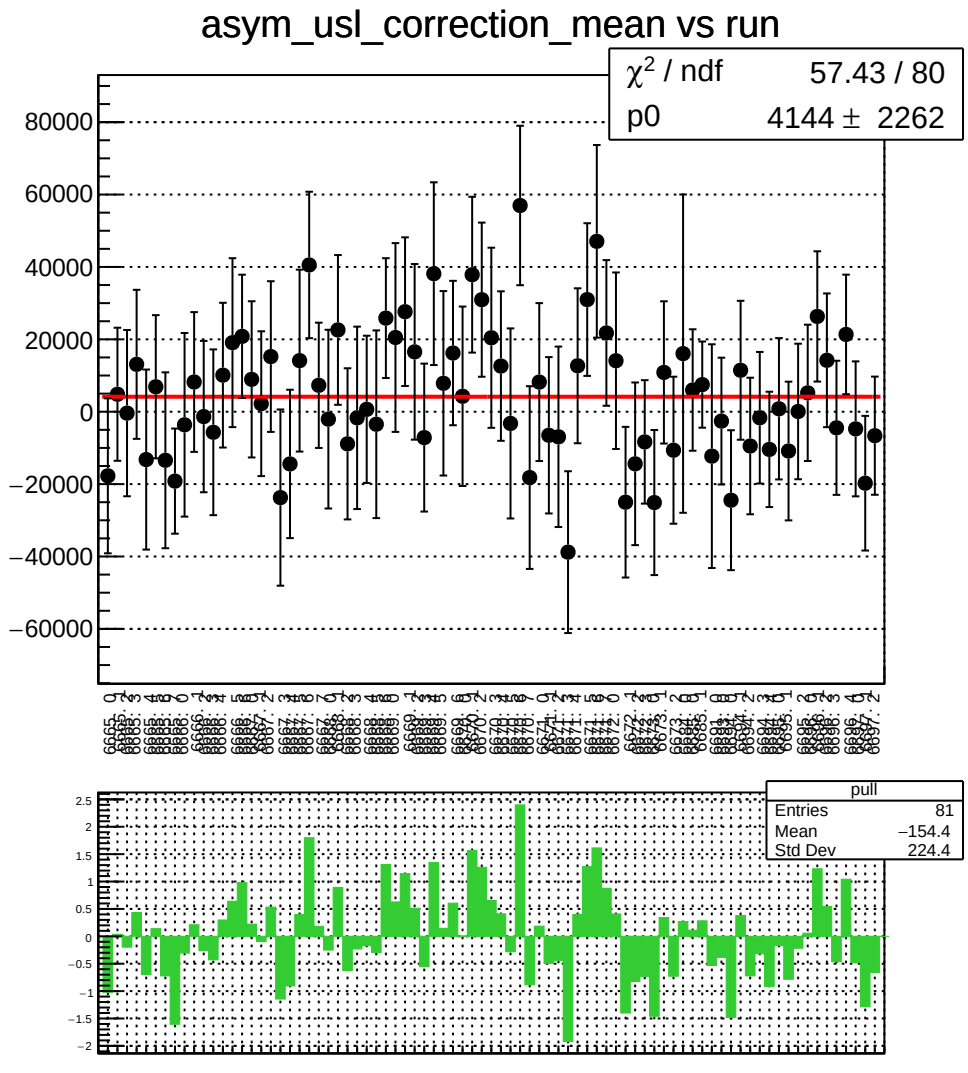

pull1D
Entries 81
Mean −0.01645
Std Dev 0.8816

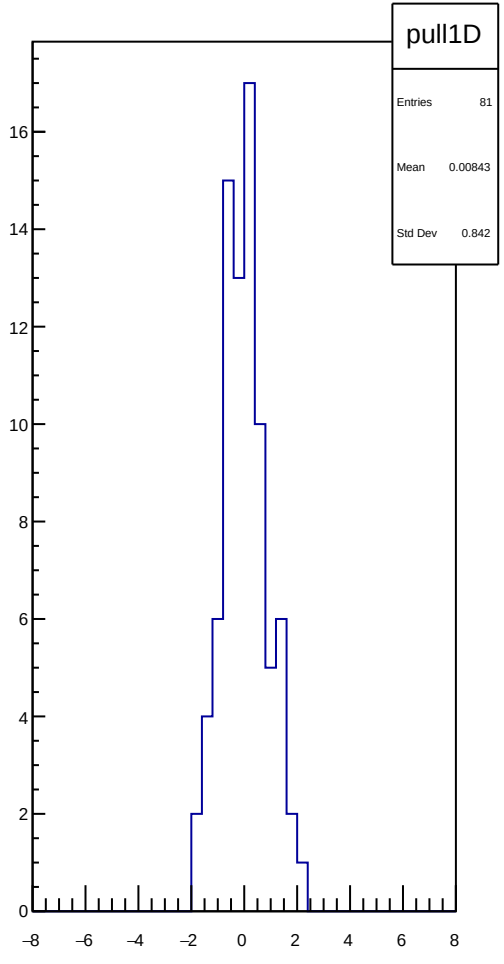

asym_ds_dd_rms vs run
χ² / ndf 149.9 / 80
p0 85.85 ± 0.06919
90
89
88
87
86
85
84
83

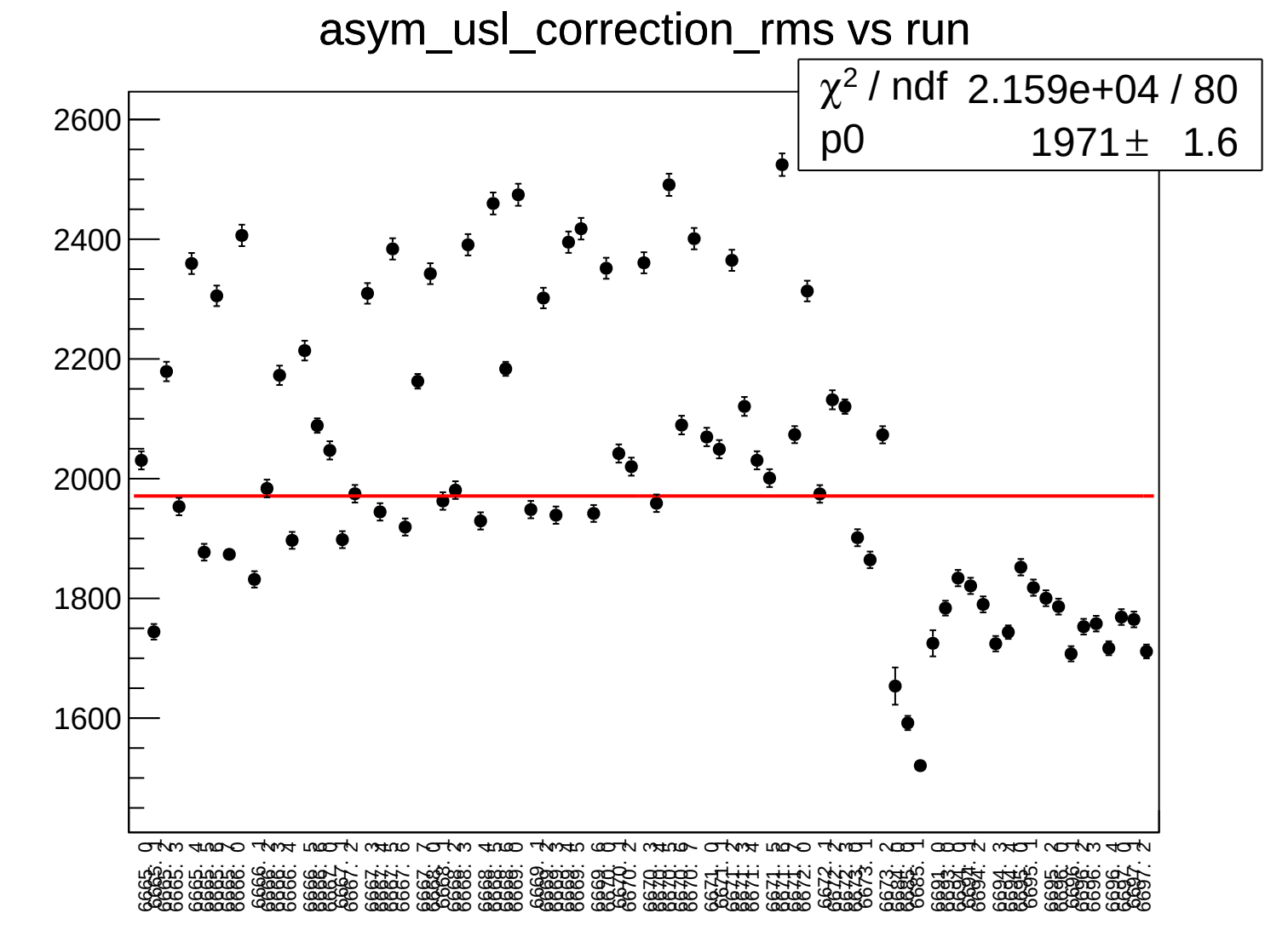

reg_asym_usl_mean vs run
χ² / ndf 88.16 / 80
p0 2974 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −79.01
Std Dev 91.82
2
1
0
−1
−2
−3

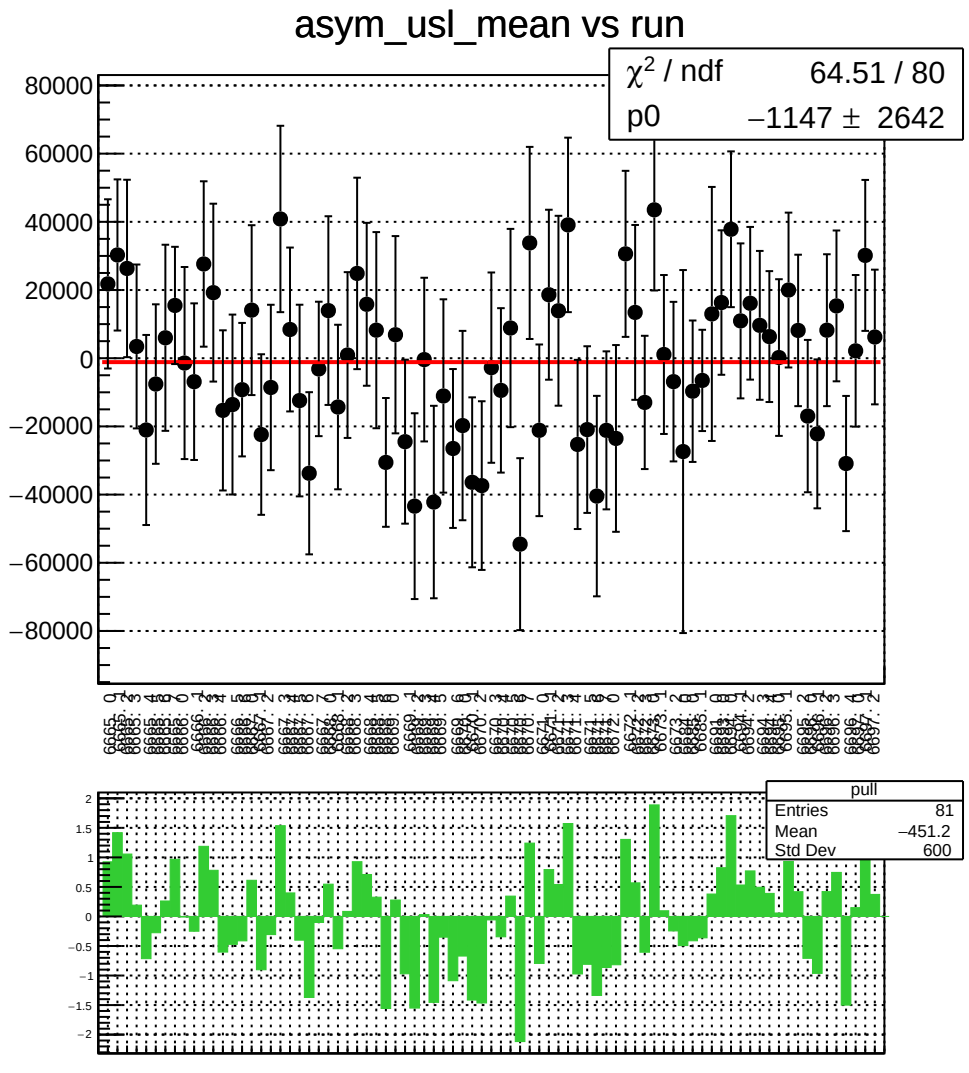

pull1D
Entries 81
Mean 0.01326
Std Dev 1.043
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

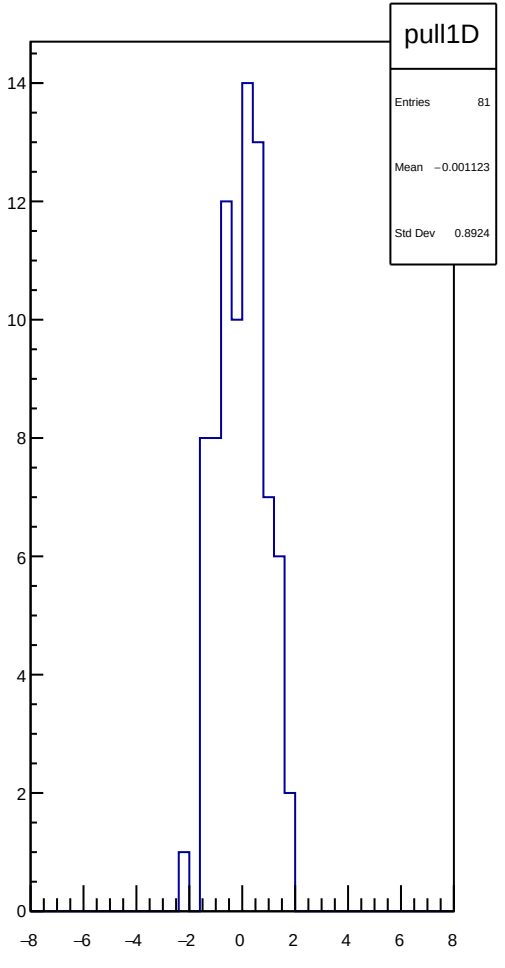

reg_asym_usl_rms vs run
χ² / ndf 330.2 / 80
p0 1176 ± 0.9477
1220
1200
1180
1160
1140
1120
1100

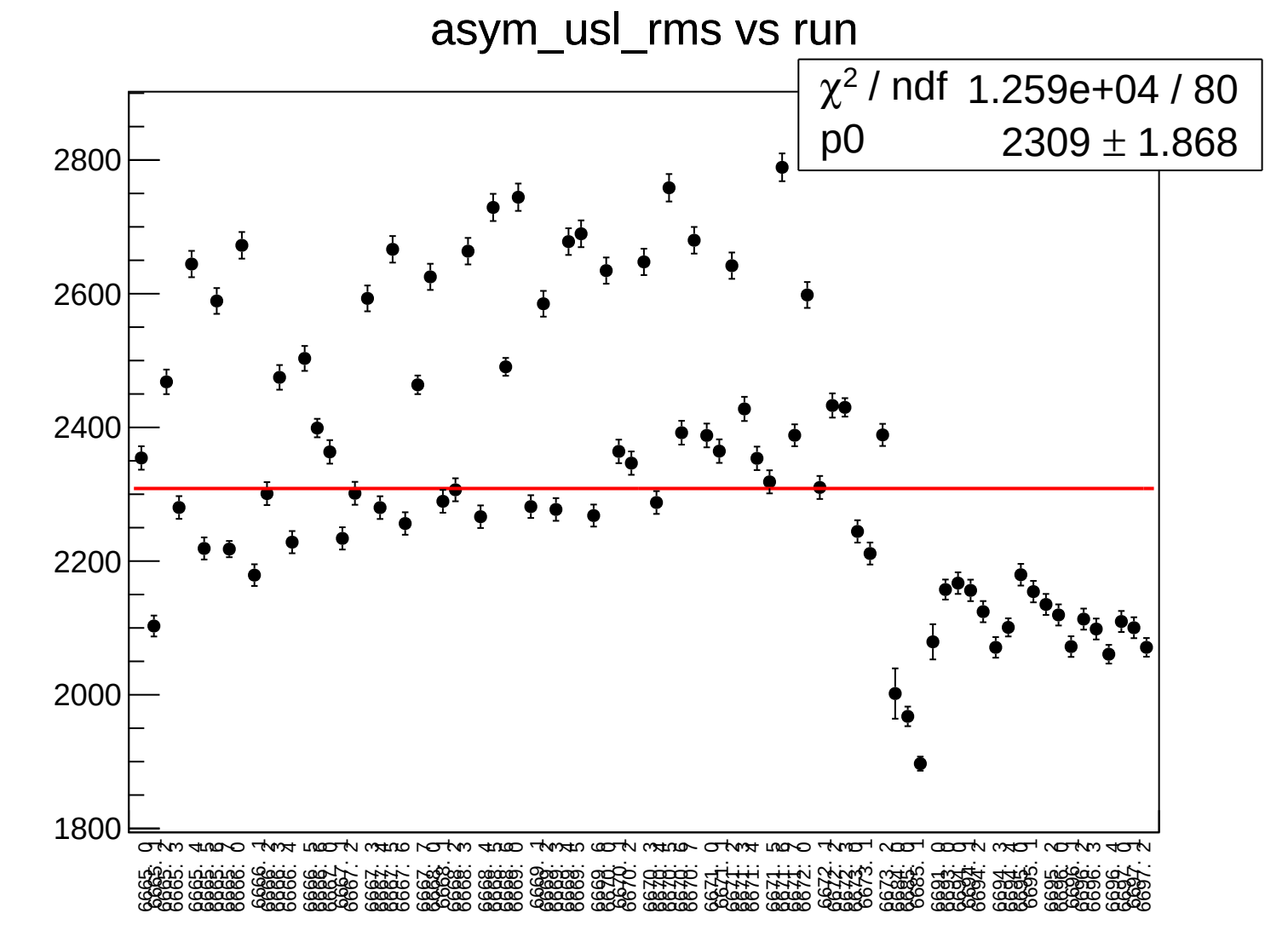

asym_usl_correction_mean vs run
χ² / ndf 57.43 / 80
p0 4144 ± 2262
pull
Entries 81
Mean −154.4
Std Dev 224.4

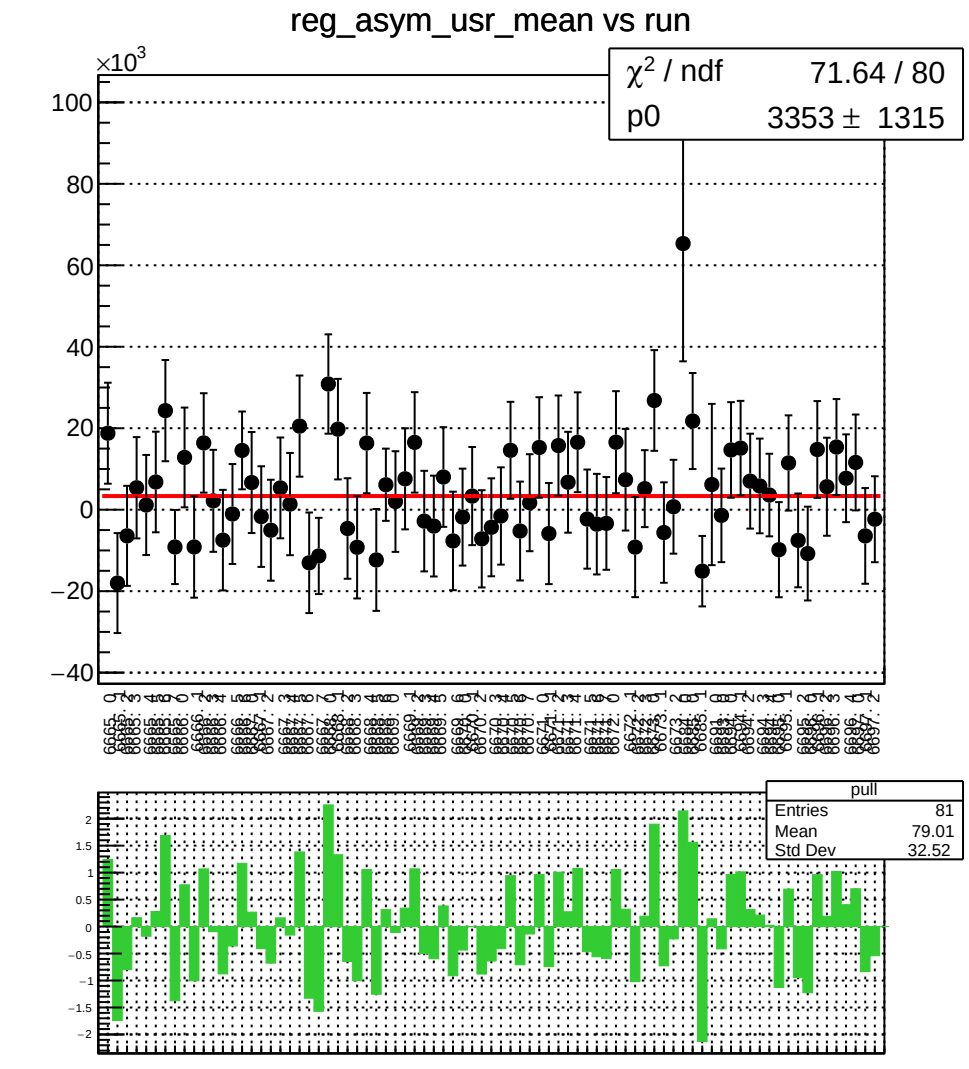

pull1D
Entries 81
Mean 0.00843
Std Dev 0.842

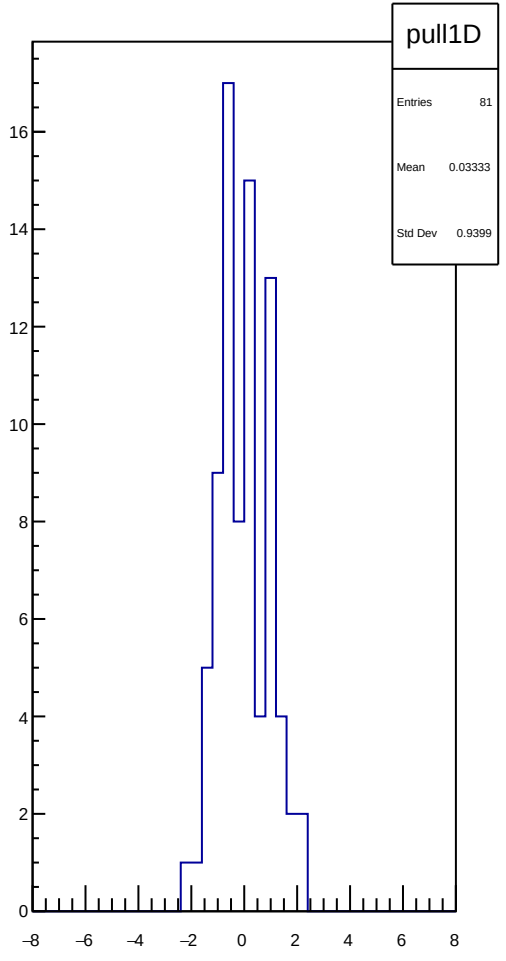

asym_usl_correction_rms vs run
χ² / ndf 2.159e+04 / 80
p0 1971 ± 1.6
2600
2400
2200
2000
1800
1600

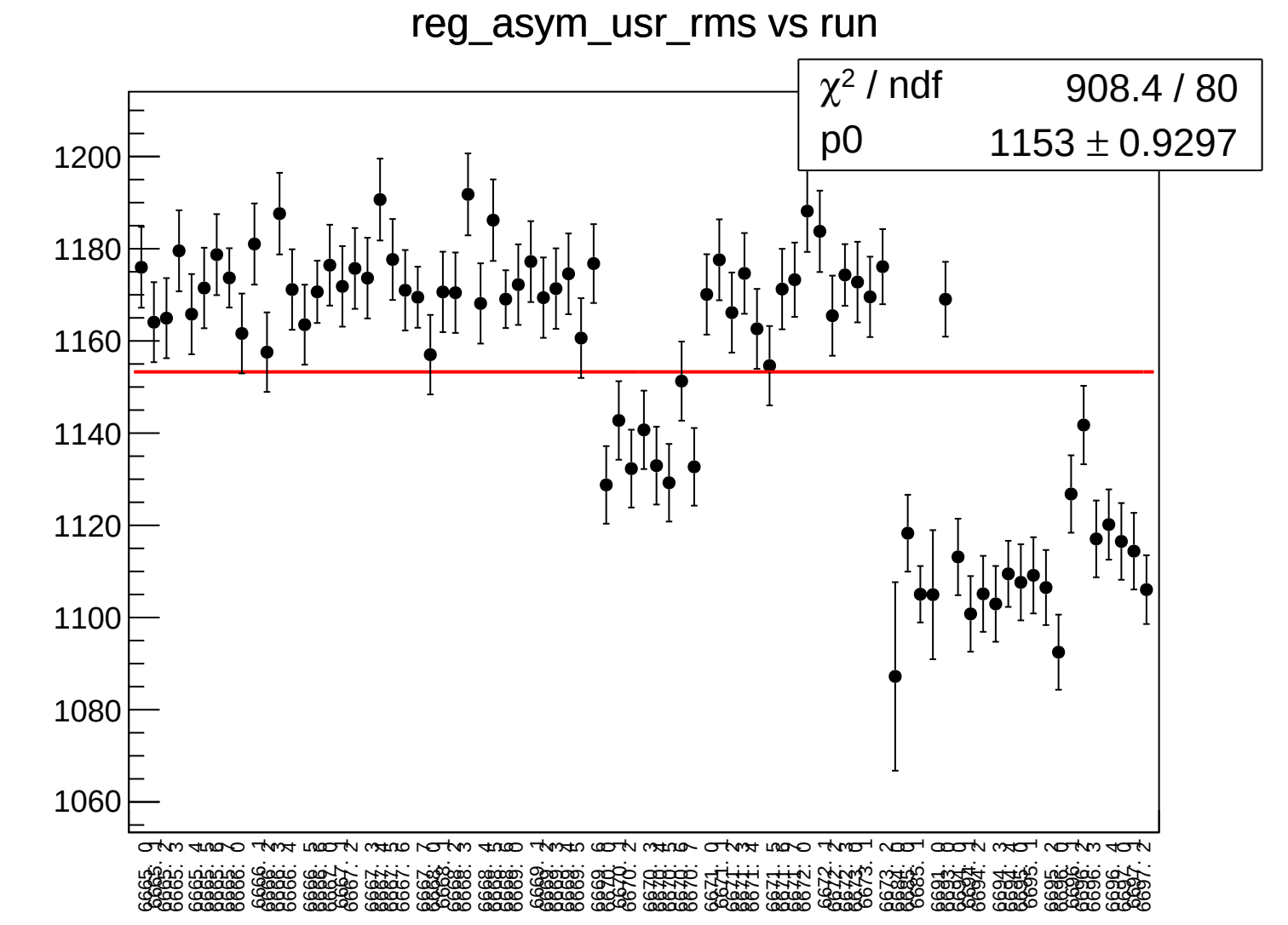

asym_usl_mean vs run
χ² / ndf 64.51 / 80
p0 −1147 ± 2642
pull
Entries 81
Mean −451.2
Std Dev 600

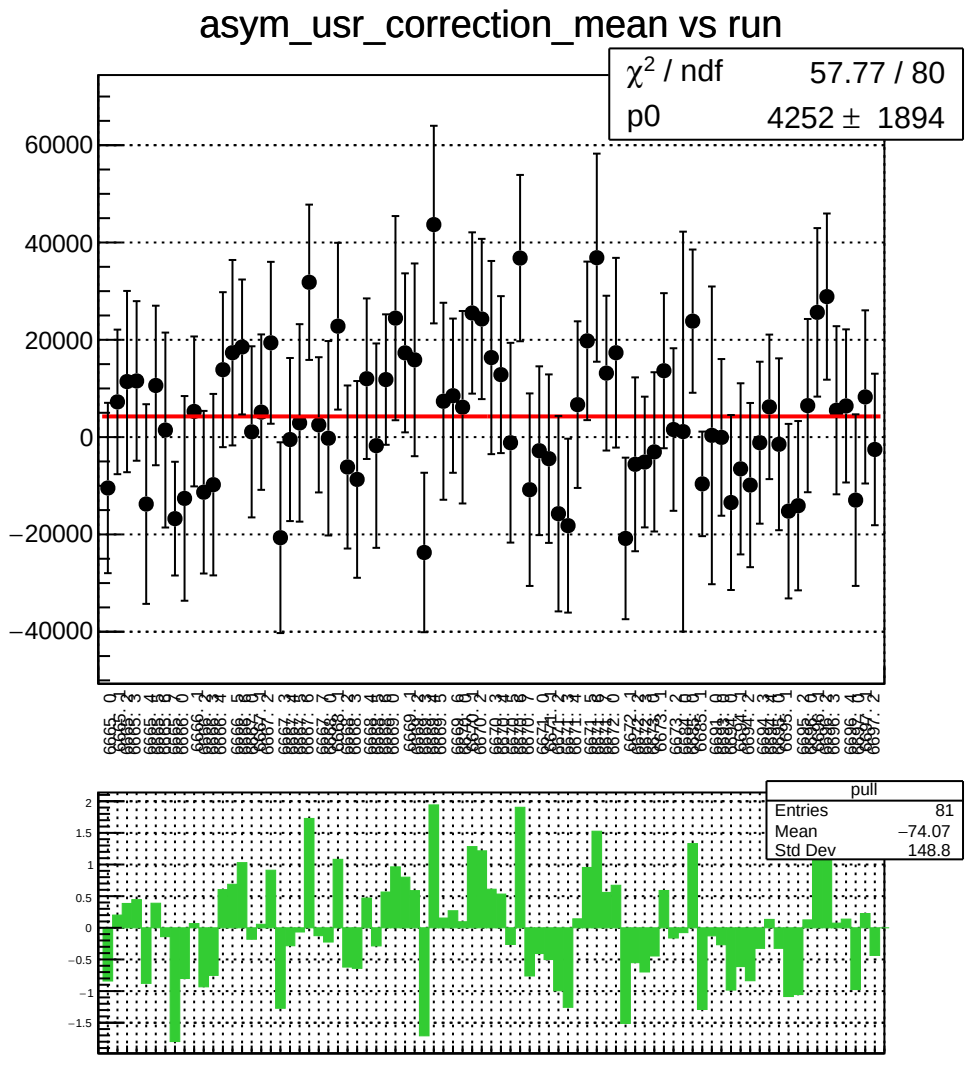

pull1D
Entries 81
Mean −0.001123
Std Dev 0.8924

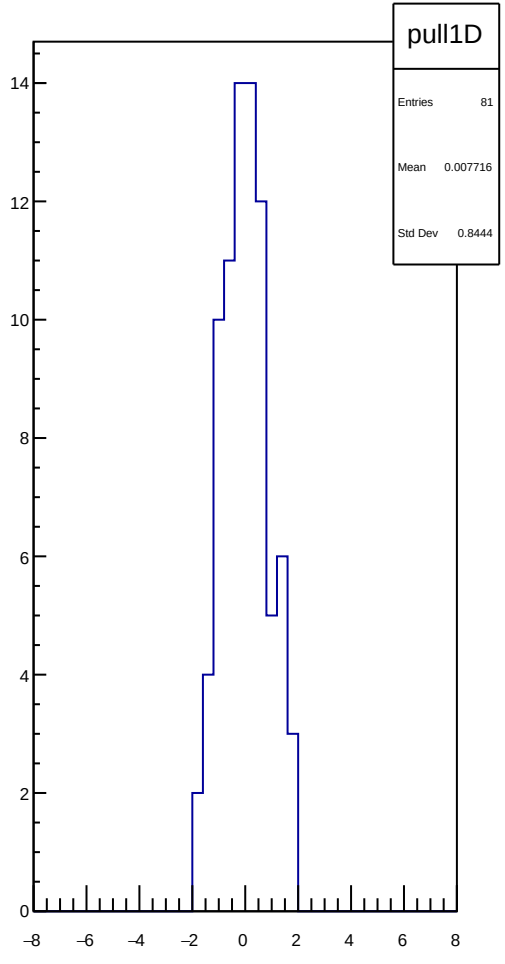

asym_usl_rms vs run
χ² / ndf 1.259e+04 / 80
p0 2309 ± 1.868
2800
2600
2400
2200
2000
1800

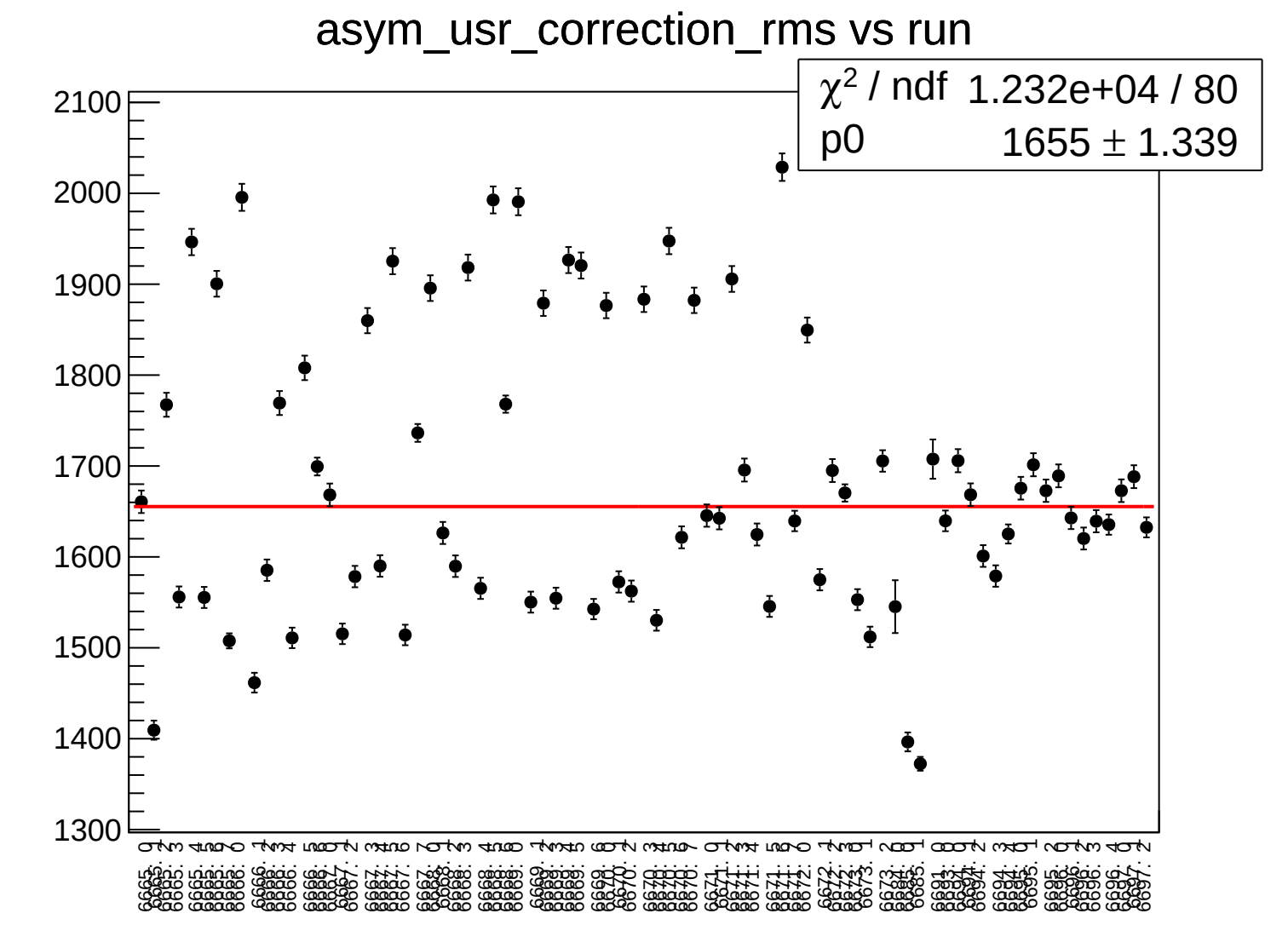

reg_asym_usr_mean vs run
×10^3
χ² / ndf 71.64 / 80
p0 3353 ± 1315
pull
Entries 81
Mean 79.01
Std Dev 32.52

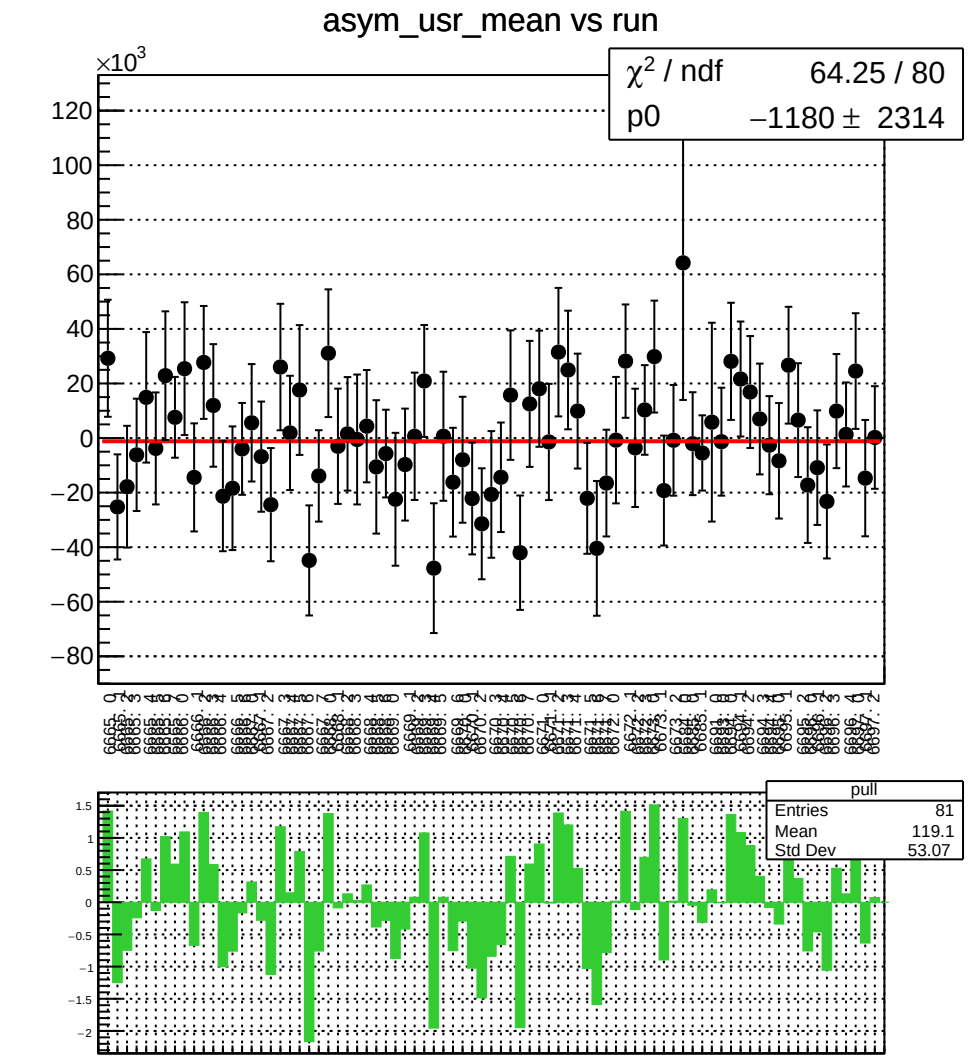

pull1D
Entries 81
Mean 0.03333
Std Dev 0.9399

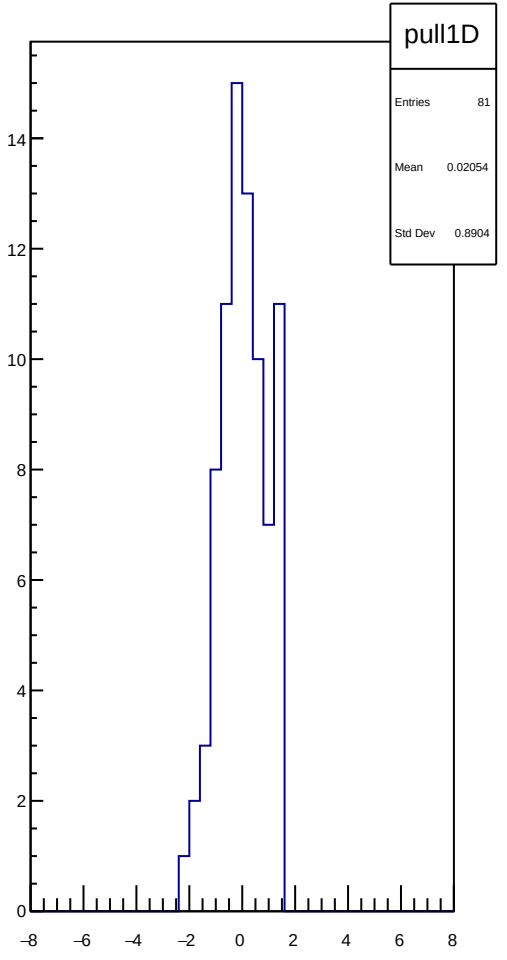

reg_asym_usr_rms vs run
χ² / ndf 908.4 / 80
p0 1153 ± 0.9297
1200
1180
1160
1140
1120
1100
1080
1060

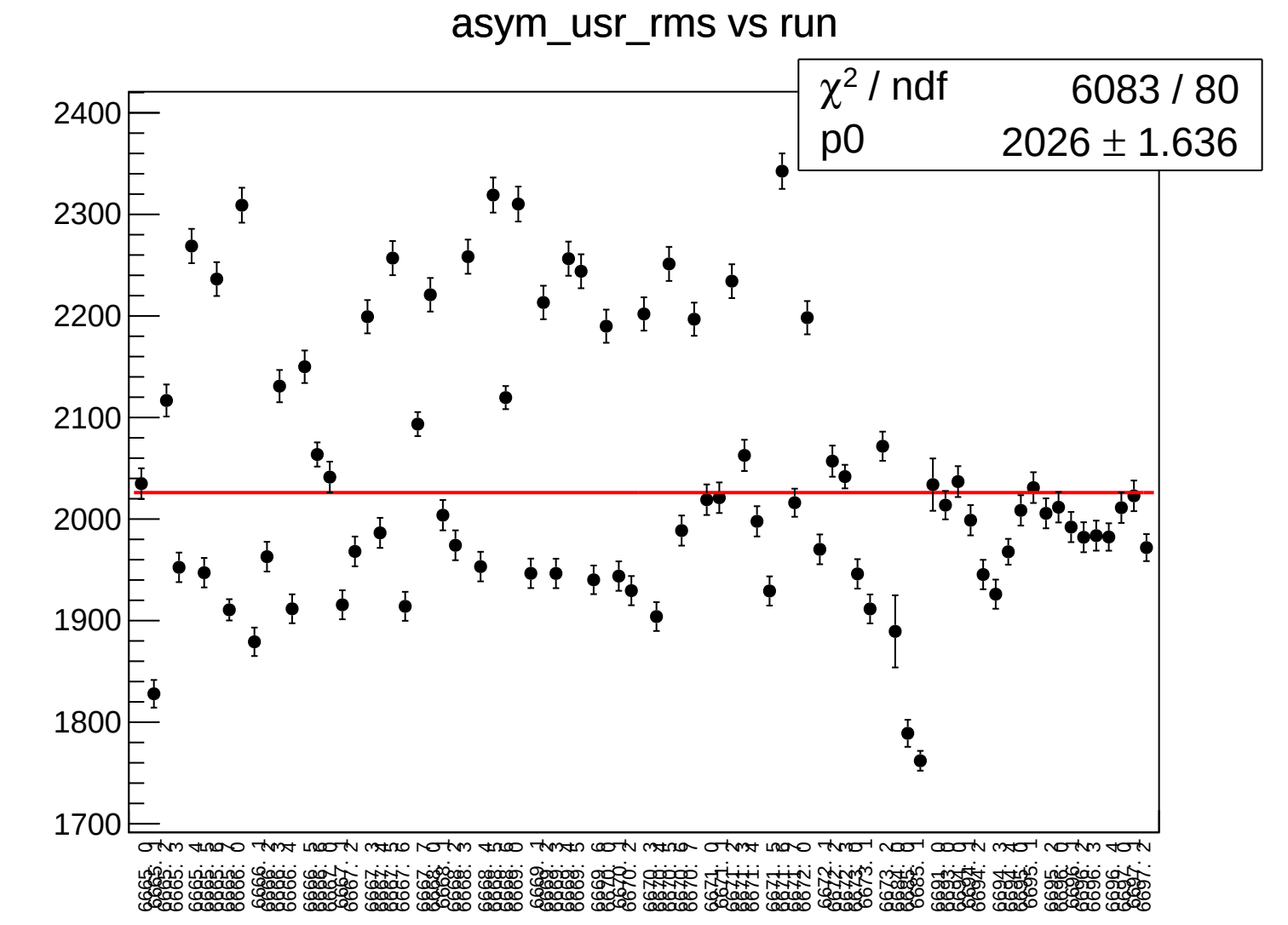

asym_usr_correction_mean vs run
χ² / ndf 57.77 / 80
p0 4252 ± 1894
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −74.07
Std Dev 148.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

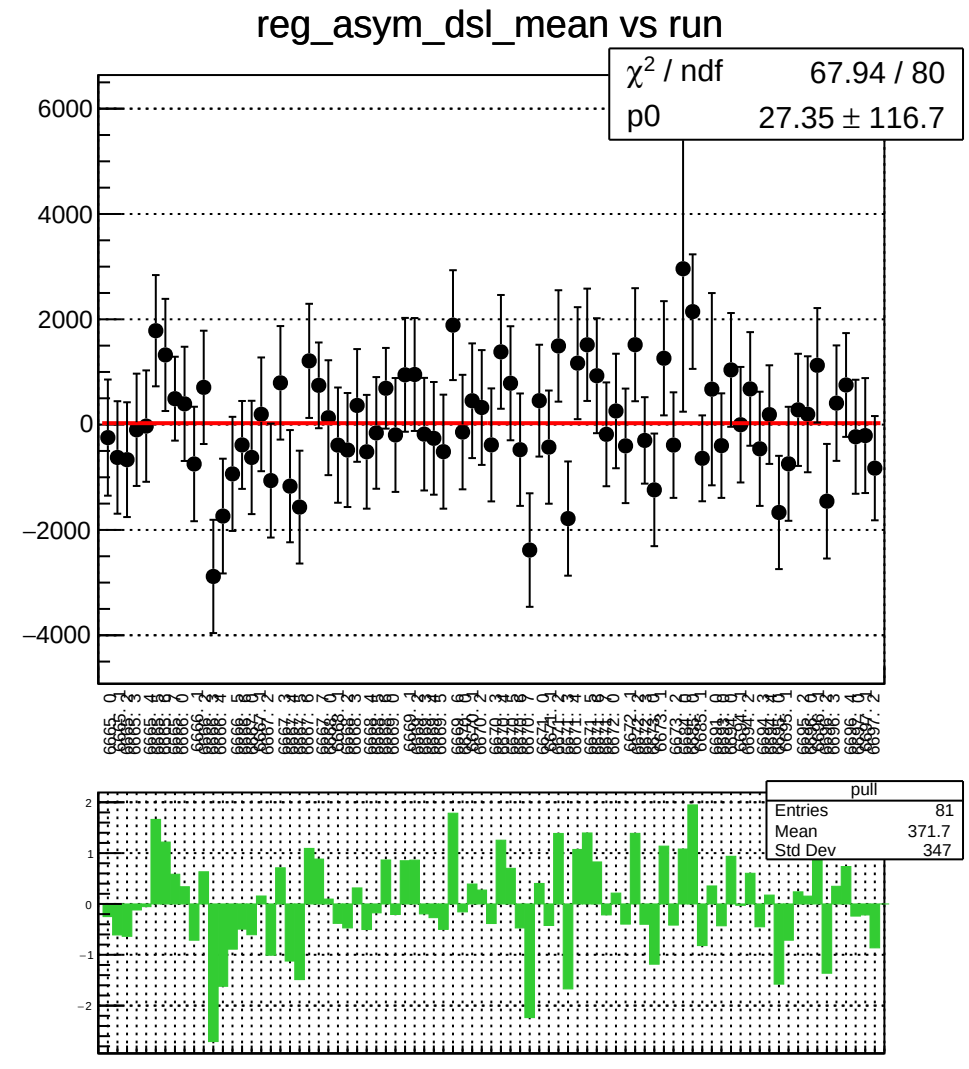

pull1D
Entries 81
Mean 0.007716
Std Dev 0.8444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

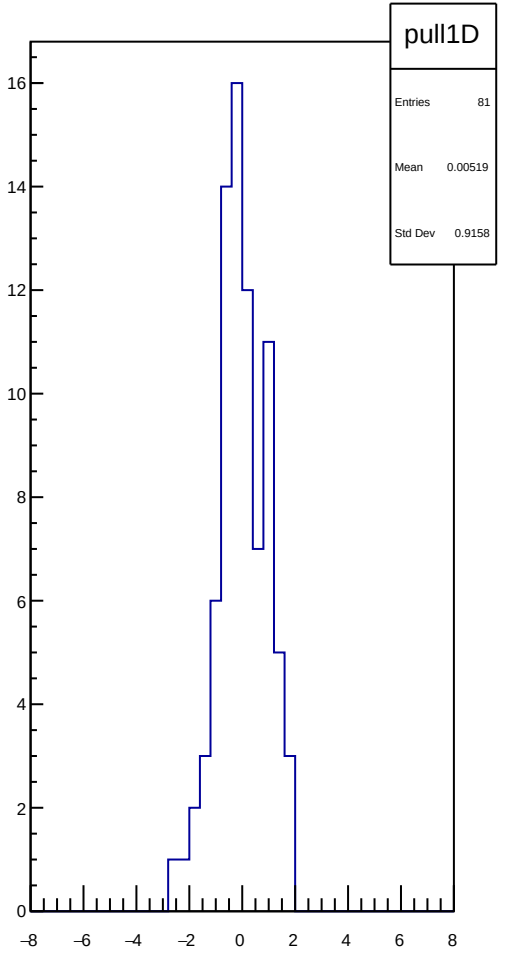

asym_usr_correction_rms vs run
χ² / ndf 1.232e+04 / 80
p0 1655 ± 1.339
2100
2000
1900
1800
1700
1600
1500
1400
1300

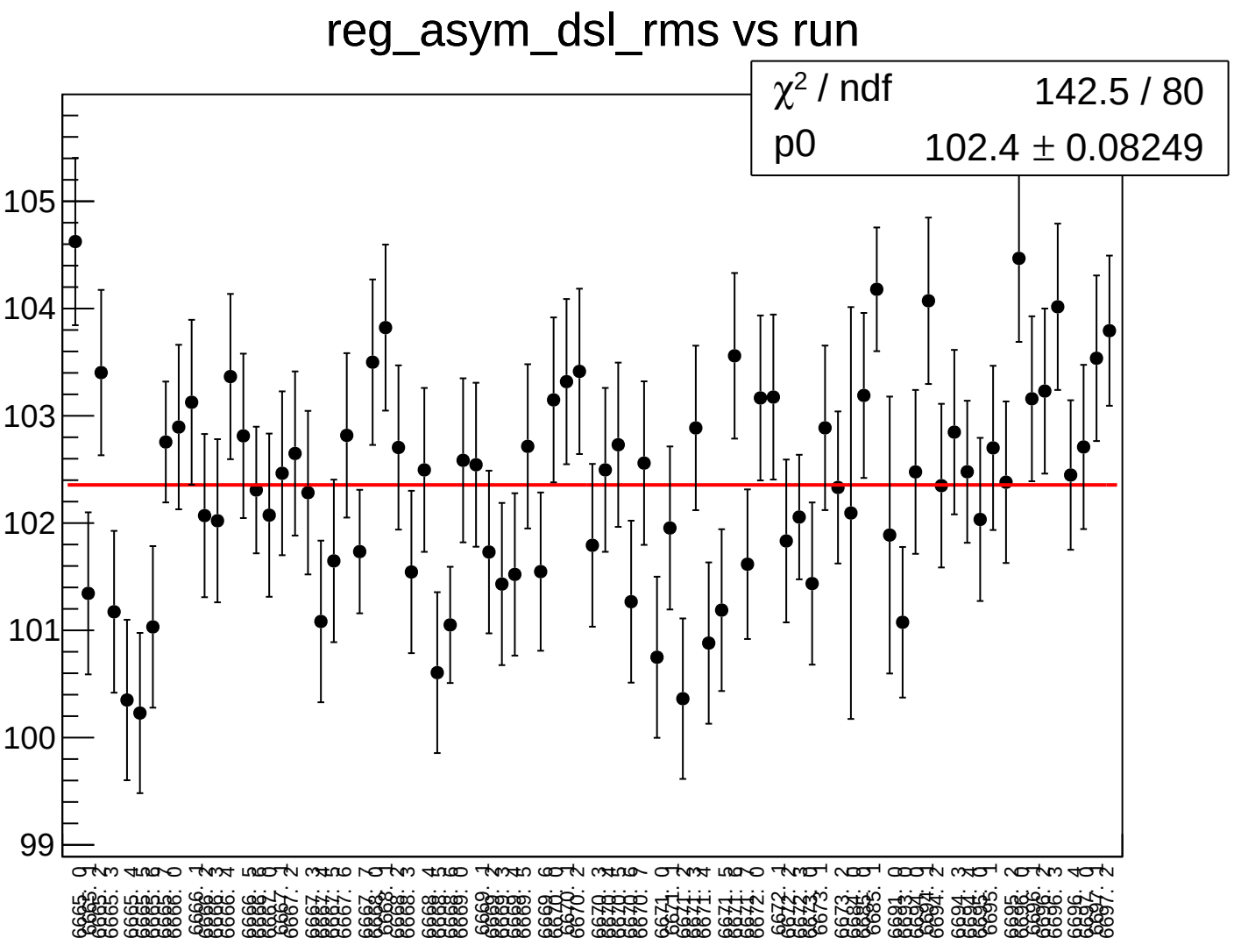

asym_usr_mean vs run
×10^3
χ^2 / ndf 64.25 / 80
p0 −1180 ± 2314
pull
Entries 81
Mean 119.1
Std Dev 53.07

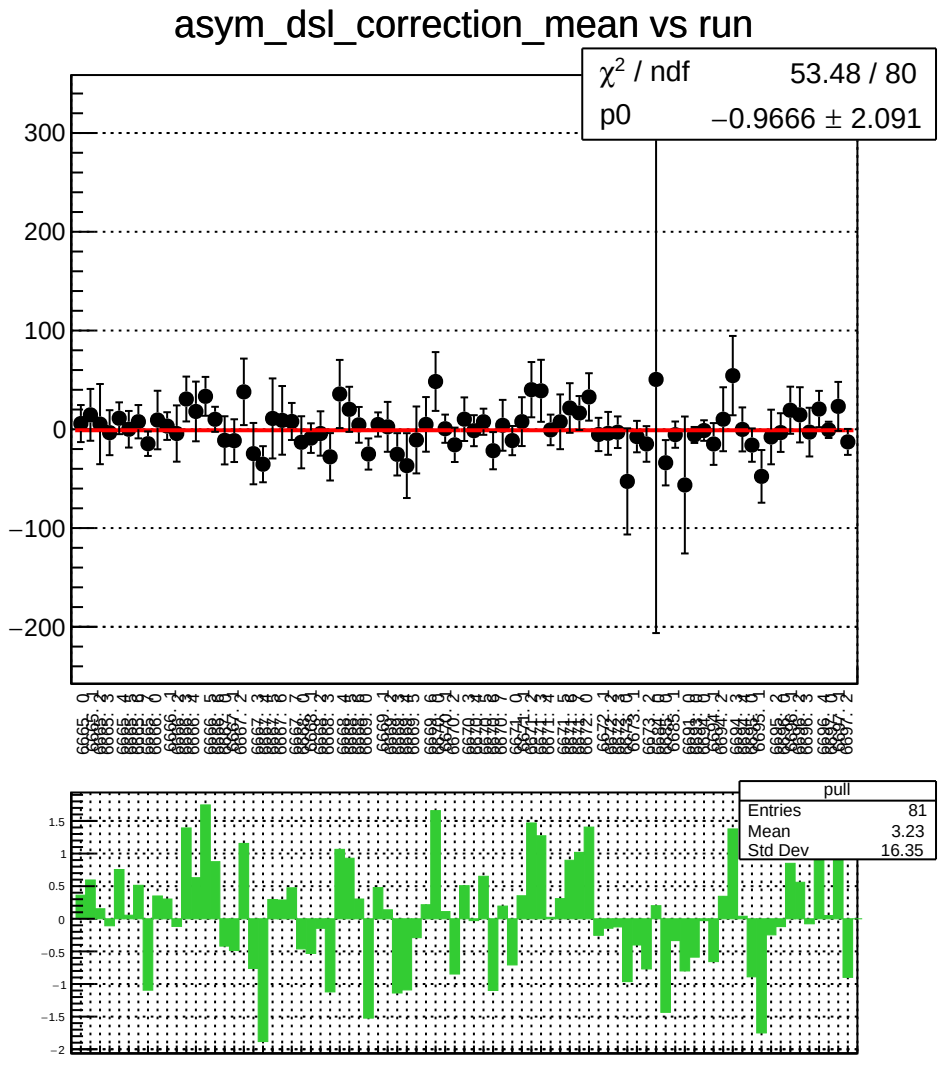

pull1D
Entries 81
Mean 0.02054
Std Dev 0.8904

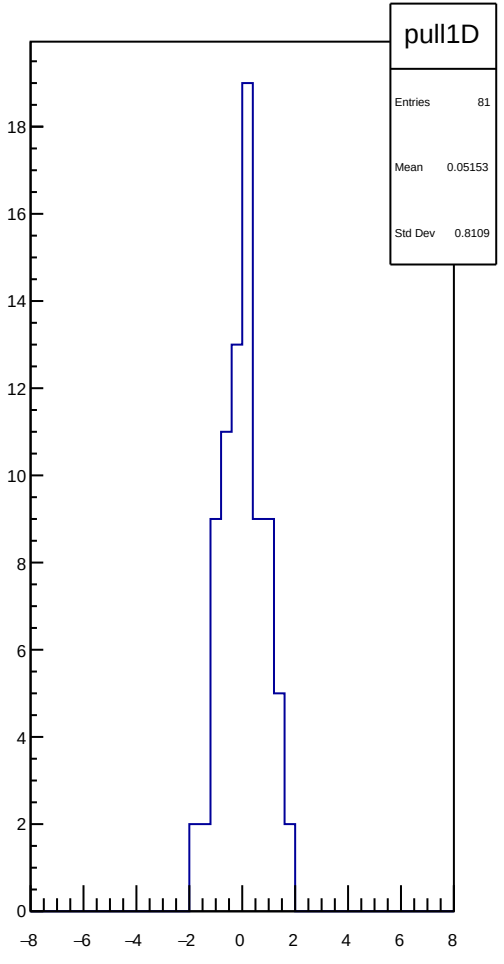

asym_usr_rms vs run
χ² / ndf 6083 / 80
p0 2026 ± 1.636
2400
2300
2200
2100
2000
1900
1800
1700

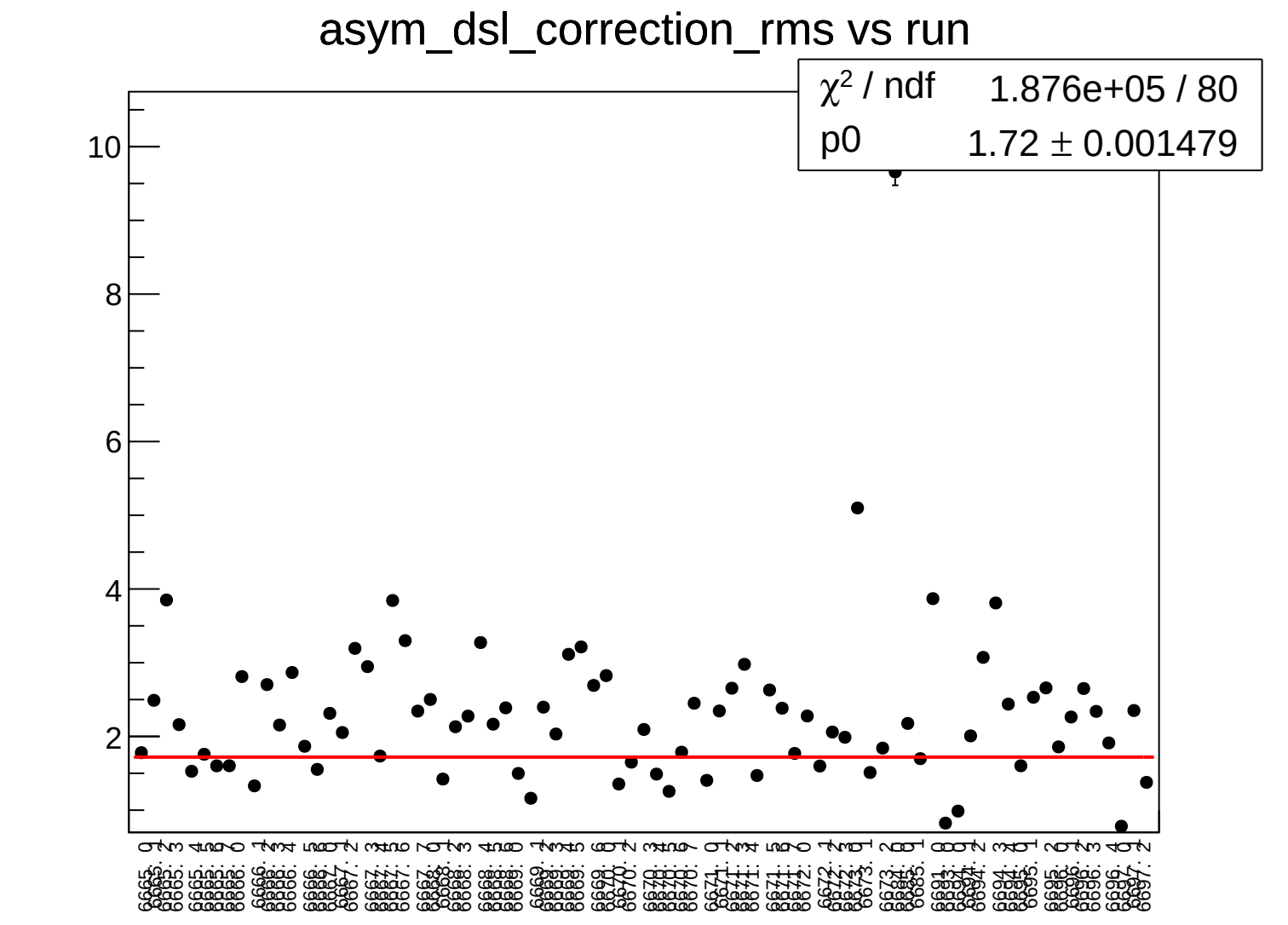

reg_asym_dsl_mean vs run
χ^2 / ndf 67.94 / 80
p0 27.35 ± 116.7
pull
Entries 81
Mean 371.7
Std Dev 347

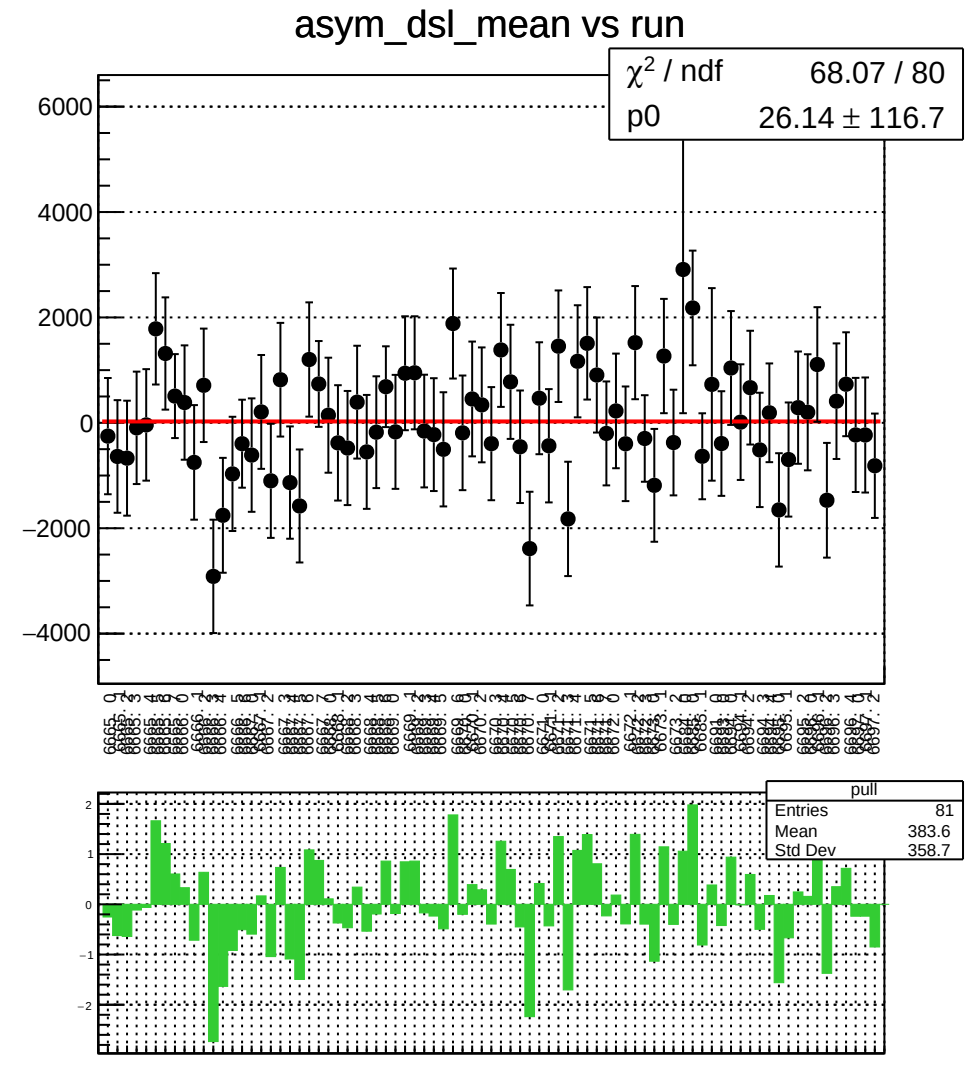

pull1D
Entries 81
Mean 0.00519
Std Dev 0.9158

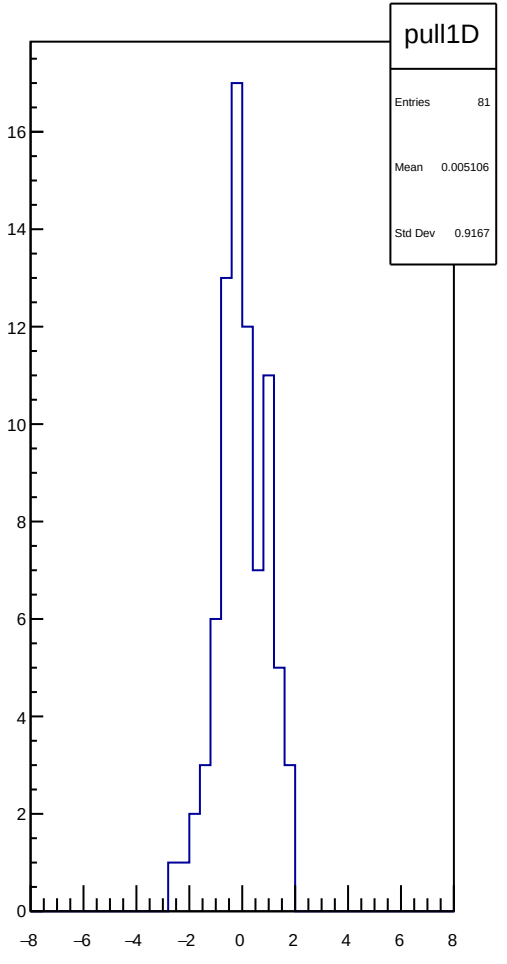

reg_asym_dsl_rms vs run
χ² / ndf 142.5 / 80
p0 102.4 ± 0.08249
105
104
103
102
101
100
99

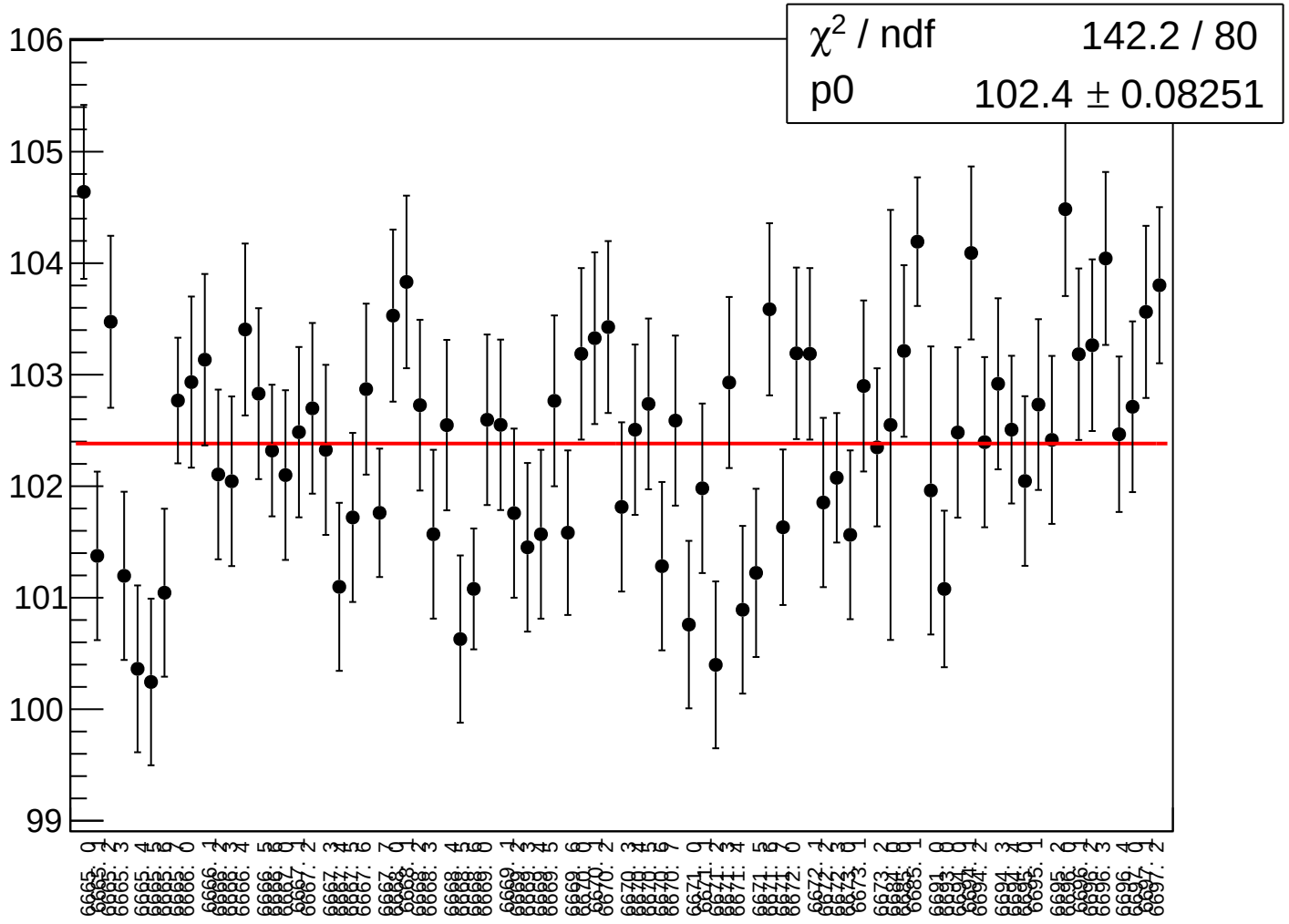

asym_dsl_correction_mean vs run
χ² / ndf 53.48 / 80
p0 −0.9666 ± 2.091
pull
Entries 81
Mean 3.23
Std Dev 16.35

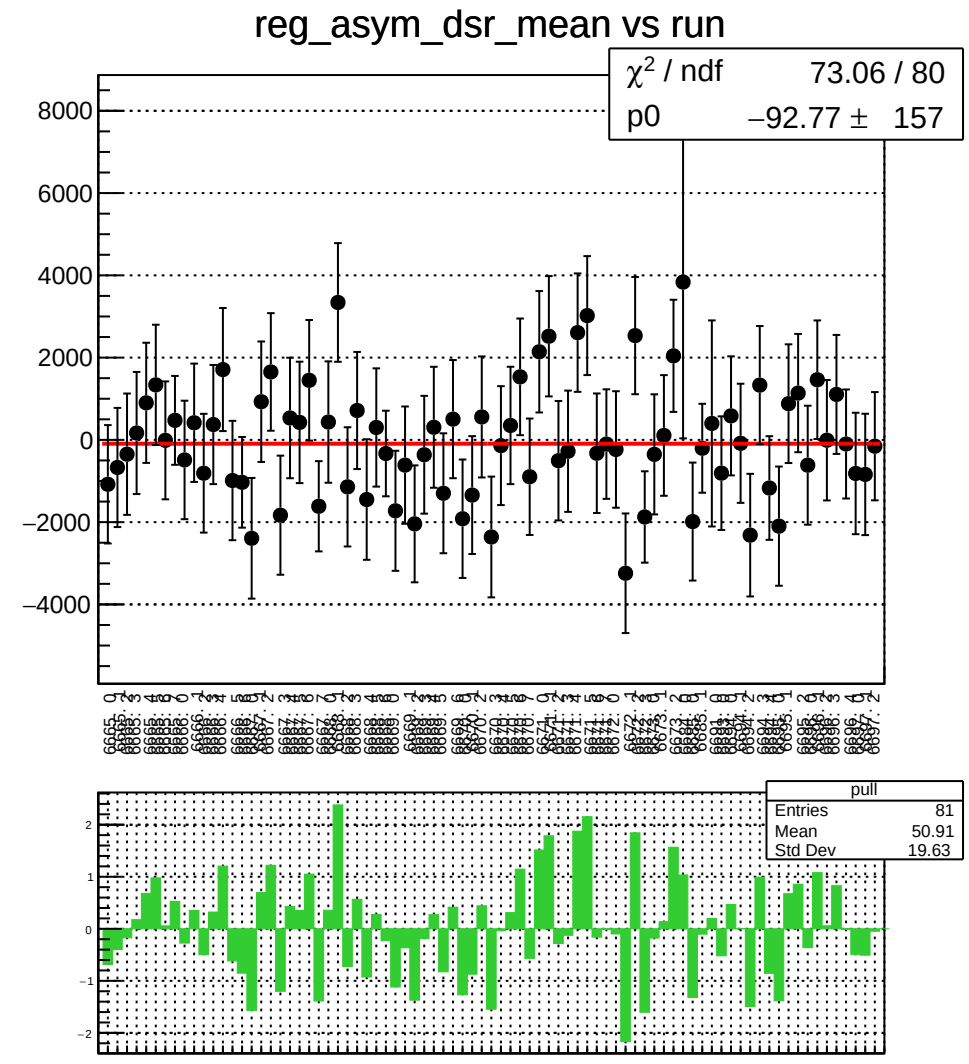

pull1D
Entries 81
Mean 0.05153
Std Dev 0.8109

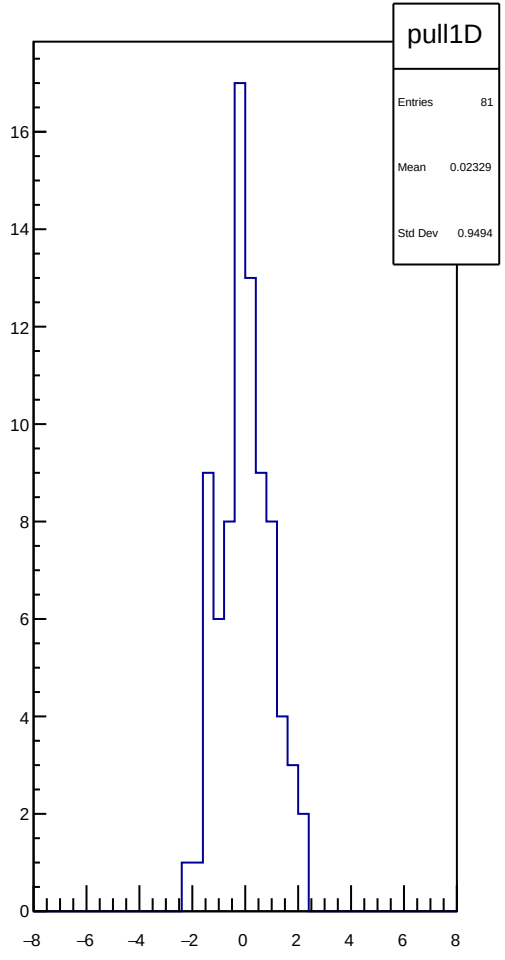

asym_dsl_correction_rms vs run
χ² / ndf 1.876e+05 / 80
p0 1.72 ± 0.001479
10
8
6
4
2

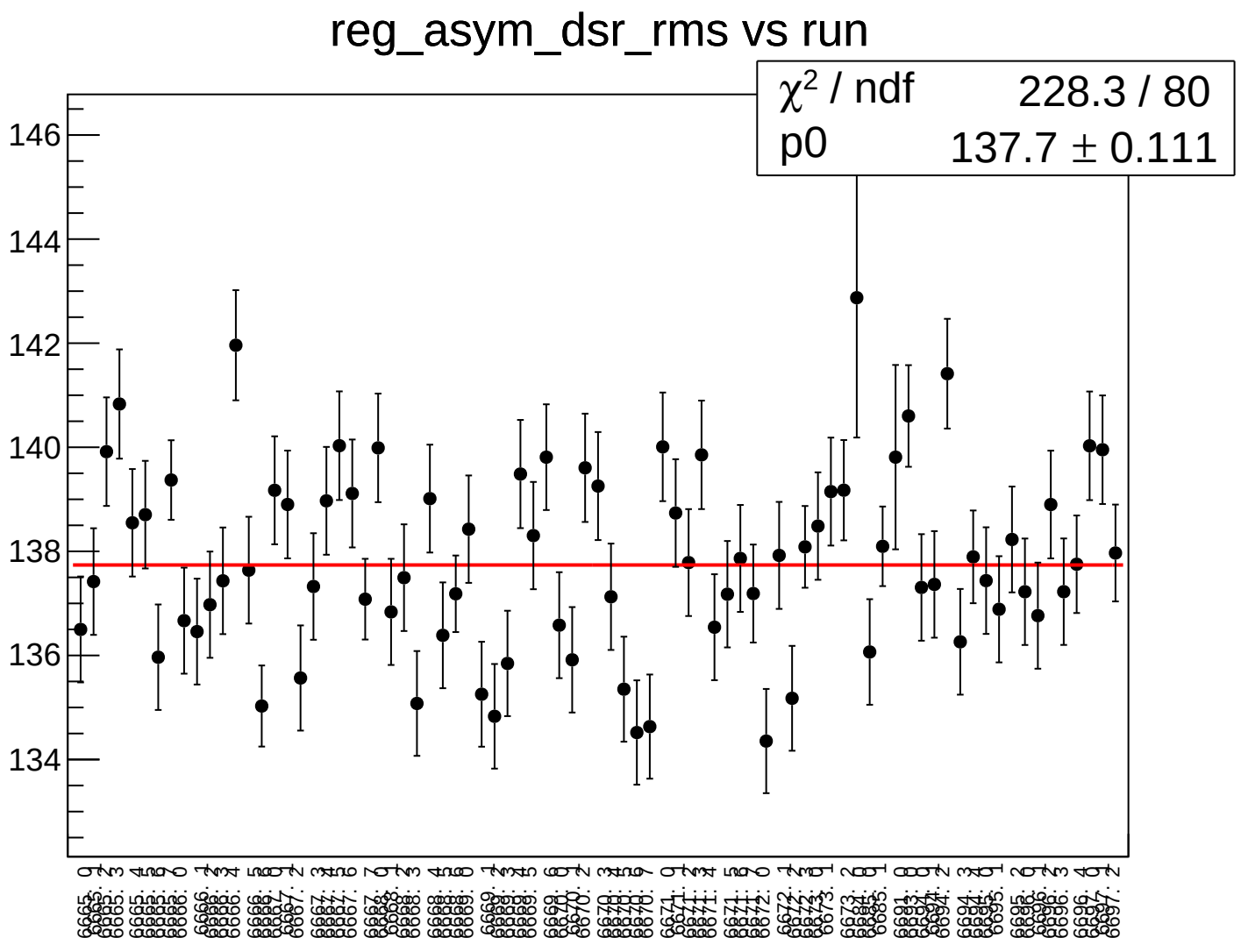

asym_dsl_mean vs run
χ² / ndf 68.07 / 80
p0 26.14 ± 116.7
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 383.6
Std Dev 358.7
2
1
0
−1
−2

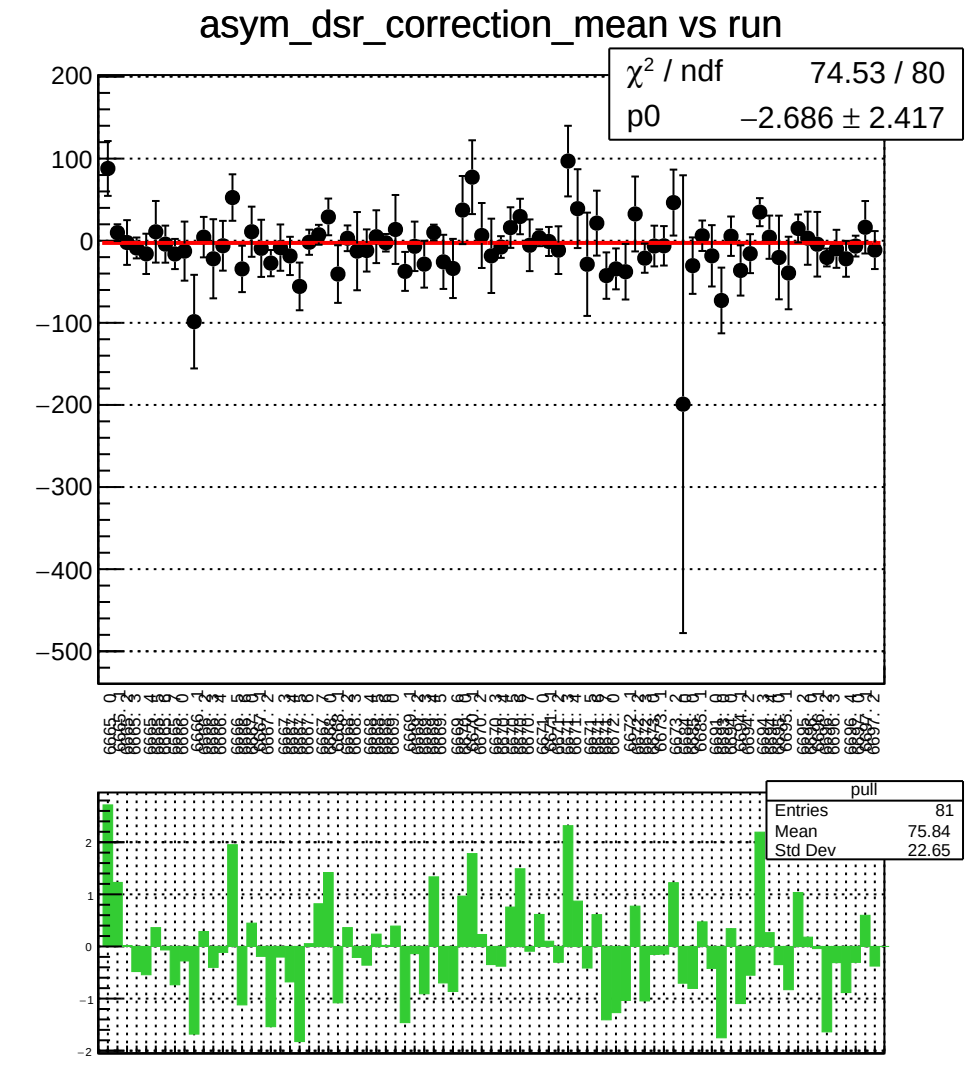

pull1D
Entries 81
Mean 0.005106
Std Dev 0.9167
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

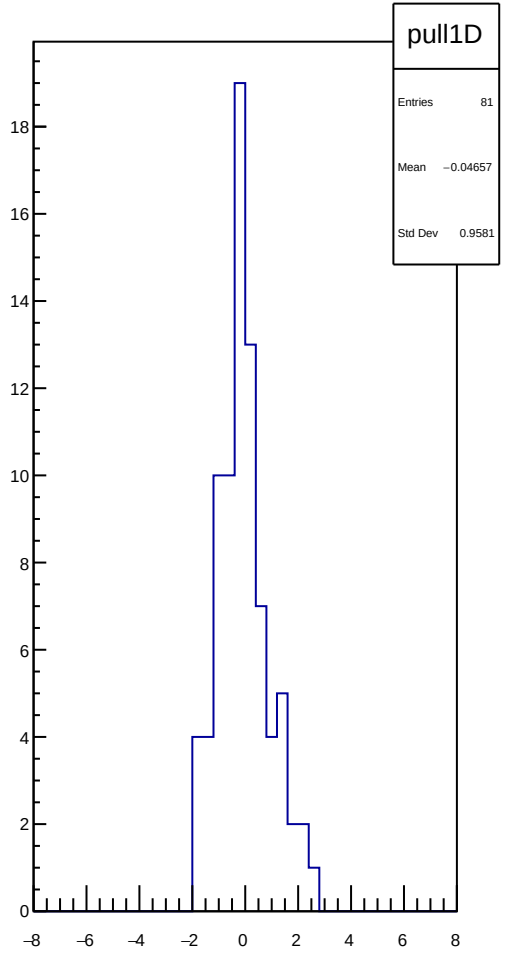

asym_dsl_rms vs run
χ² / ndf 142.2 / 80
p0 102.4 ± 0.08251
106
105
104
103
102
101
100
99

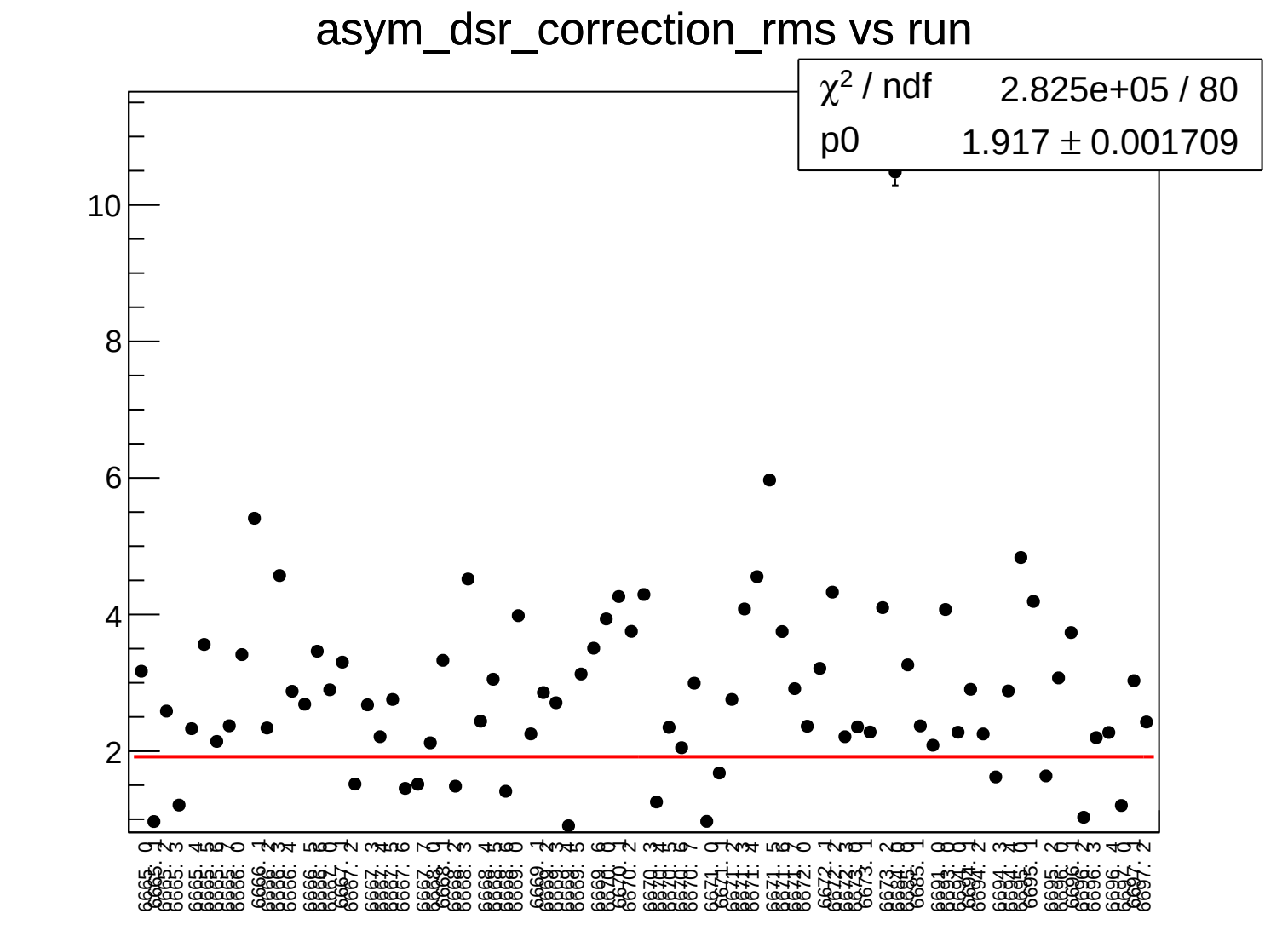

reg_asym_dsr_mean vs run
χ² / ndf 73.06 / 80
p0 −92.77 ± 157
pull
Entries 81
Mean 50.91
Std Dev 19.63

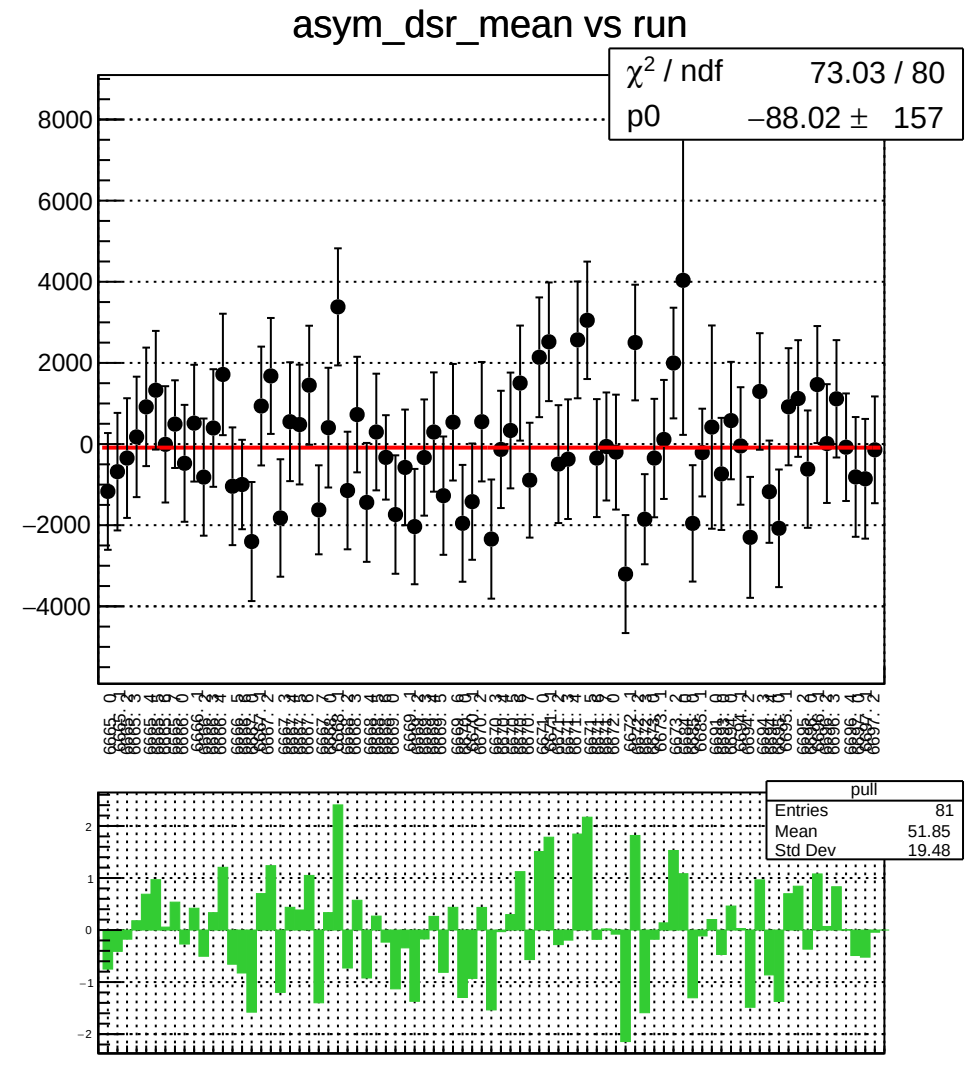

pull1D
Entries 81
Mean 0.02329
Std Dev 0.9494

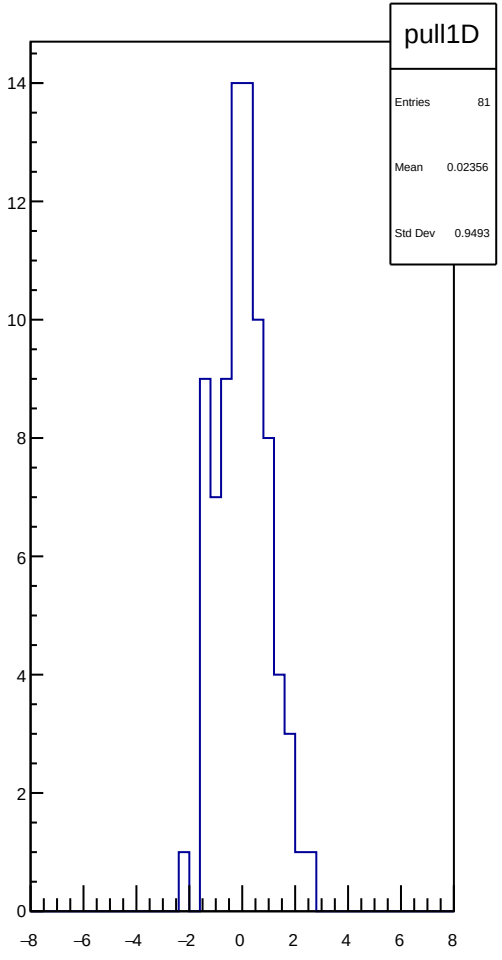

reg_asym_dsr_rms vs run
χ² / ndf 228.3 / 80
p0 137.7 ± 0.111
146
144
142
140
138
136
134

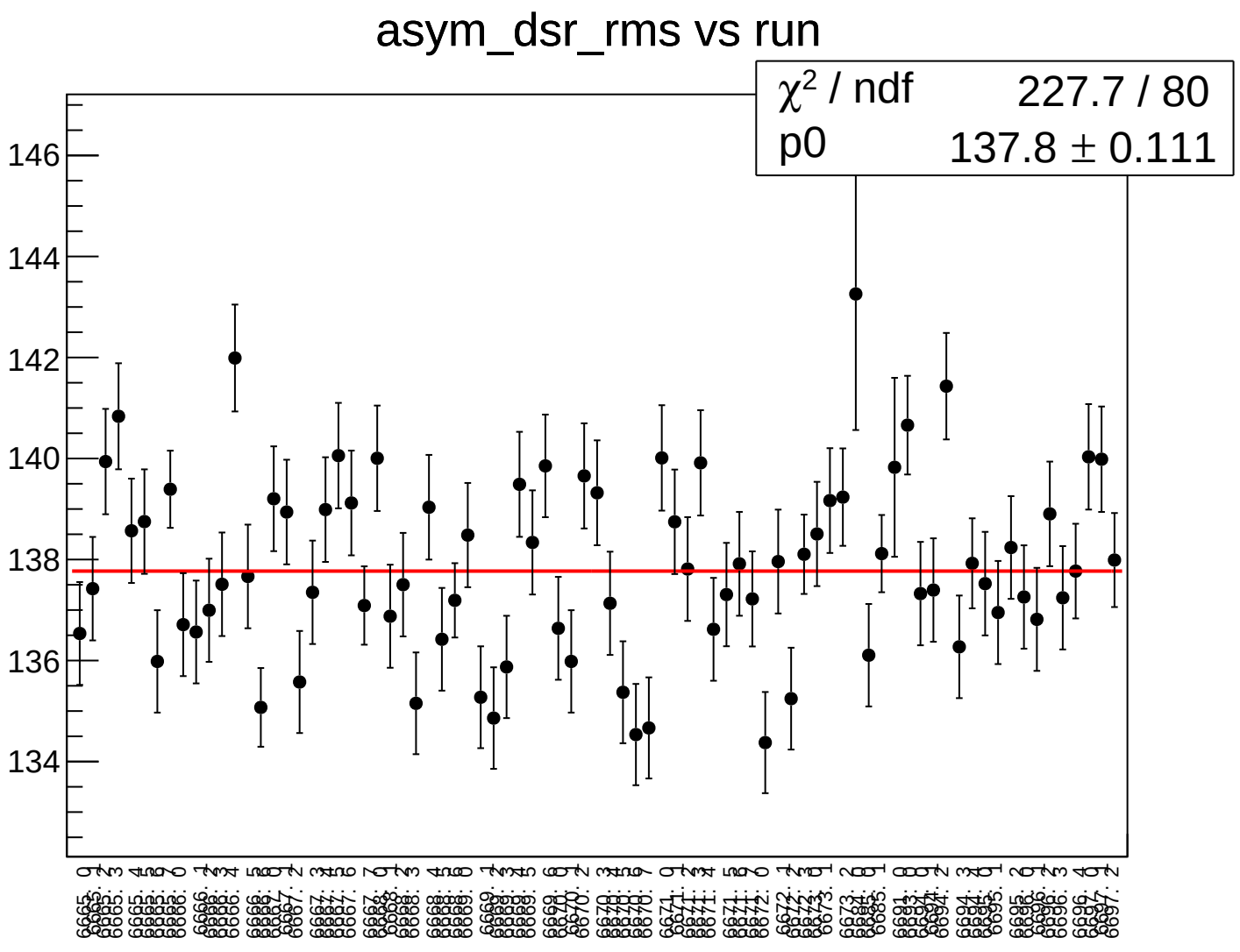

asym_dsr_correction_mean vs run
χ² / ndf 74.53 / 80
p0 −2.686 ± 2.417
pull
Entries 81
Mean 75.84
Std Dev 22.65

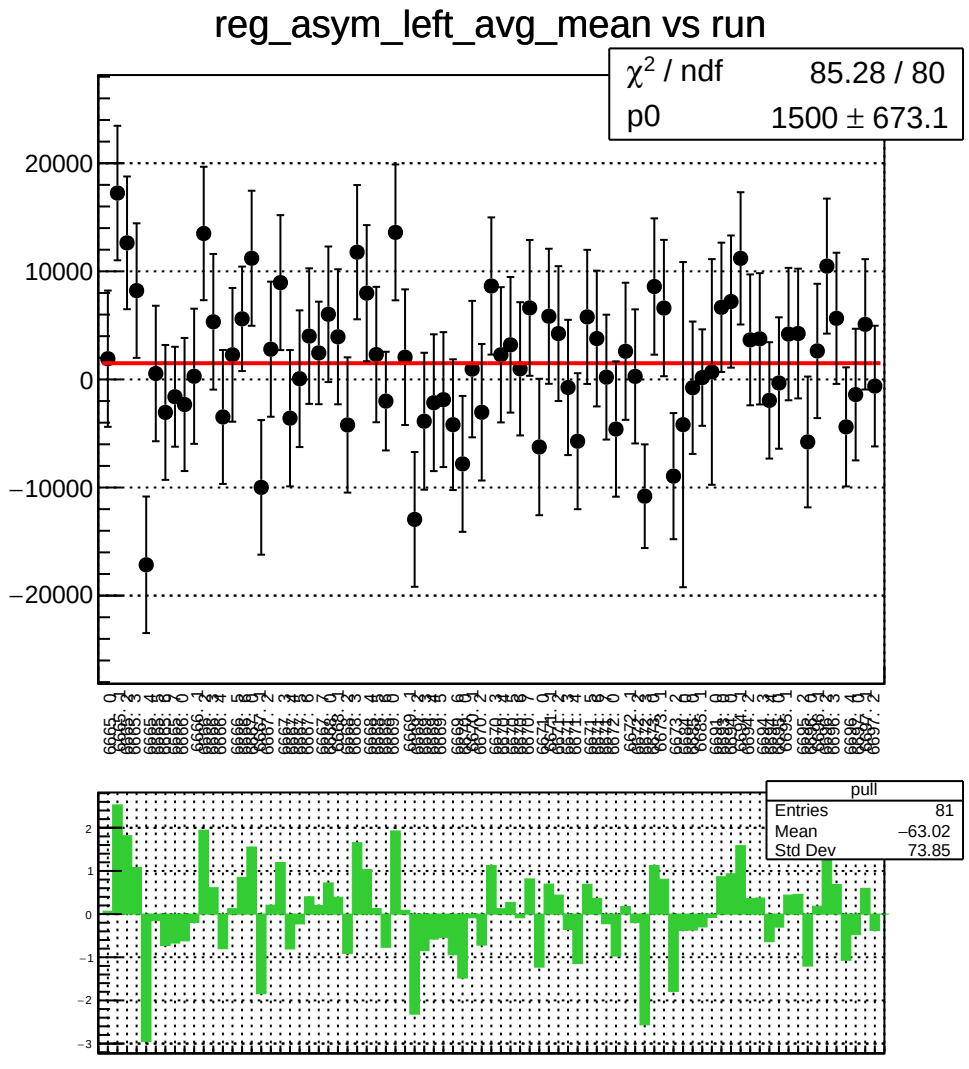

pull1D
Entries 81
Mean −0.04657
Std Dev 0.9581

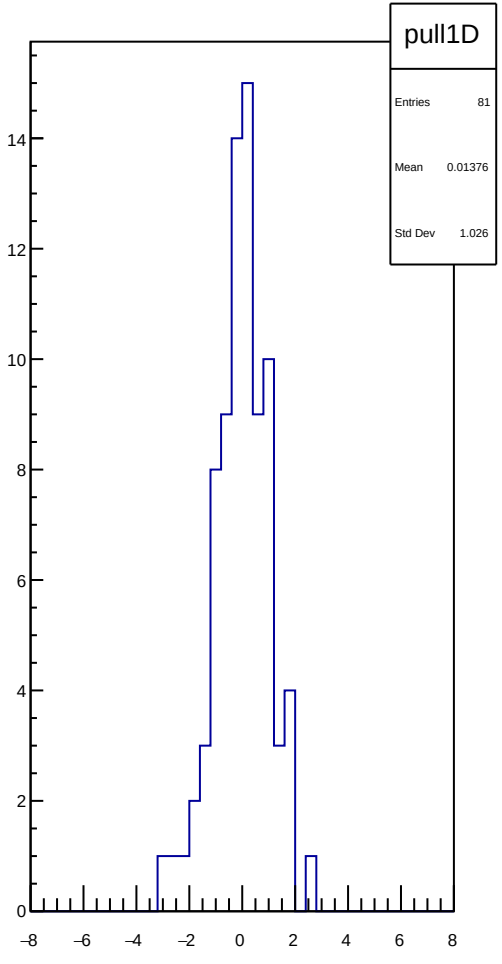

asym_dsr_correction_rms vs run
χ² / ndf 2.825e+05 / 80
p0 1.917 ± 0.001709
10
8
6
4
2

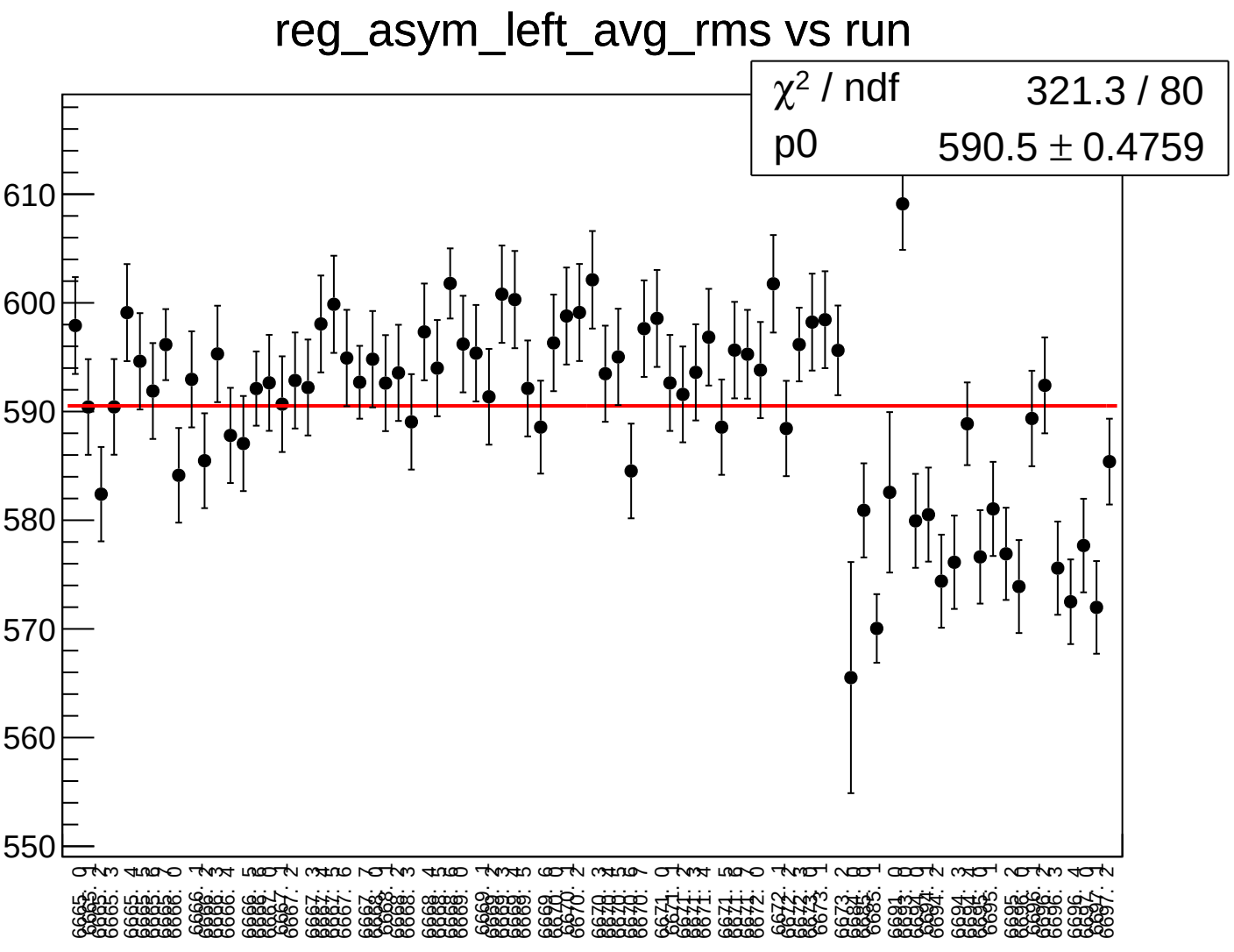

asym_dsr_mean vs run
χ² / ndf 73.03 / 80
p0 −88.02 ± 157
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 51.85
Std Dev 19.48
2
1
0
−1
−2

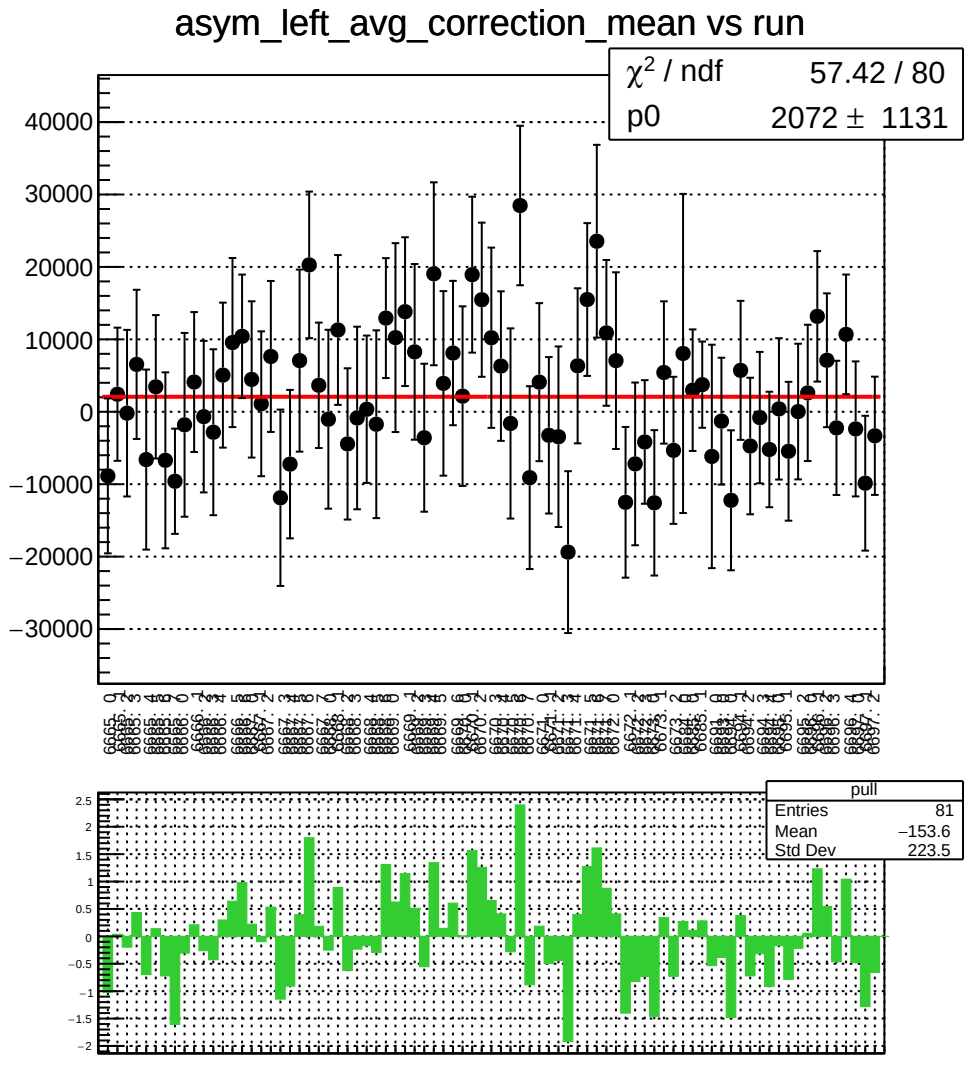

pull1D
Entries 81
Mean 0.02356
Std Dev 0.9493
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

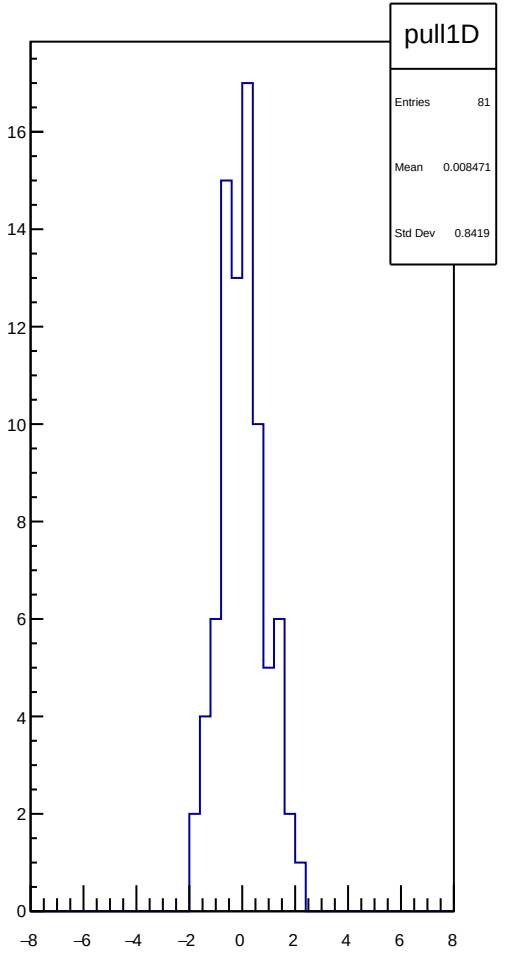

asym_dsr_rms vs run
χ^2 / ndf 227.7 / 80
p0 137.8 ± 0.111
146
144
142
140
138
136
134

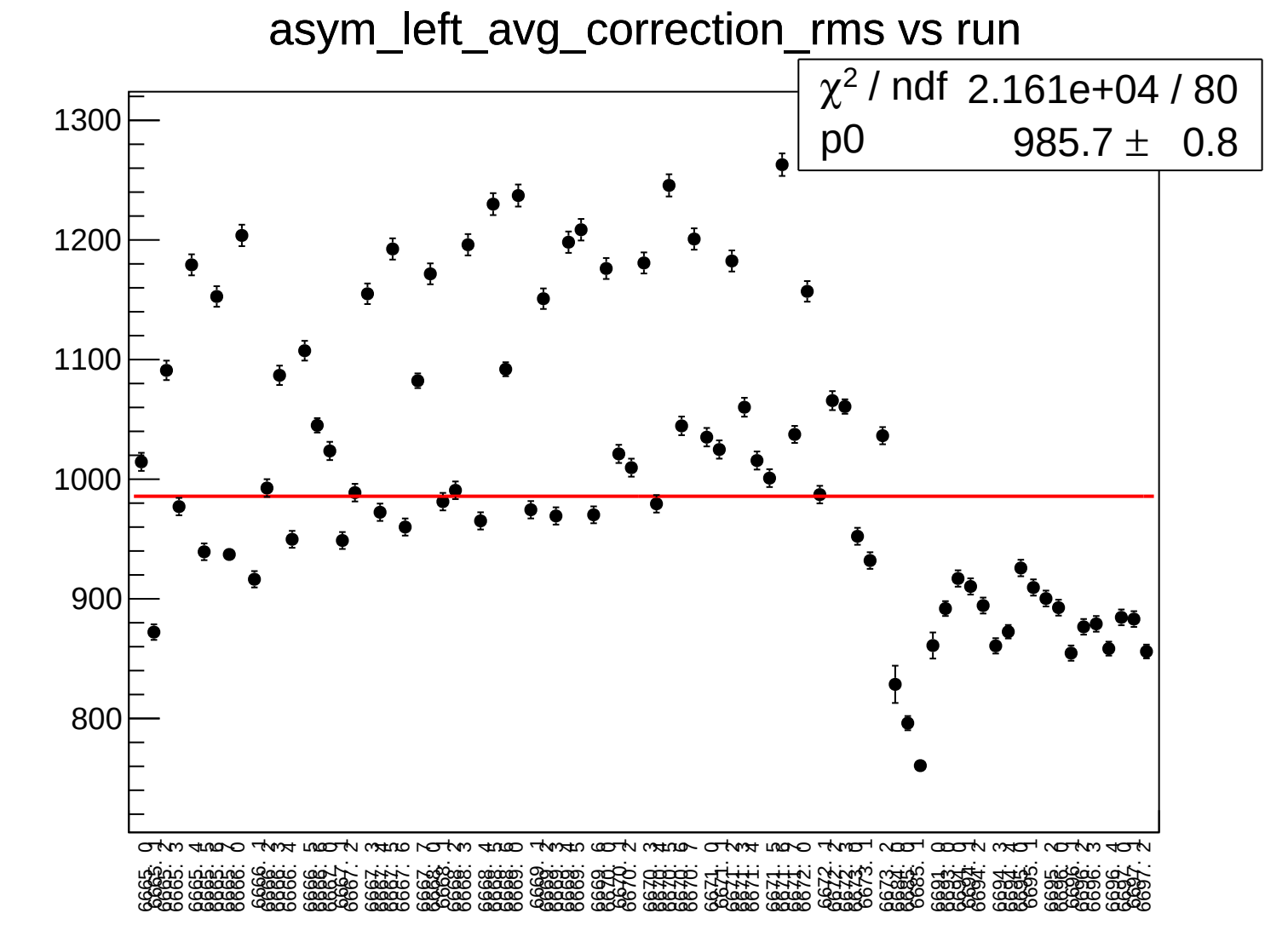

reg_asym_left_avg_mean vs run
χ² / ndf 85.28 / 80
p0 1500 ± 673.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −63.02
Std Dev 73.85
2
1
0
−1
−2
−3

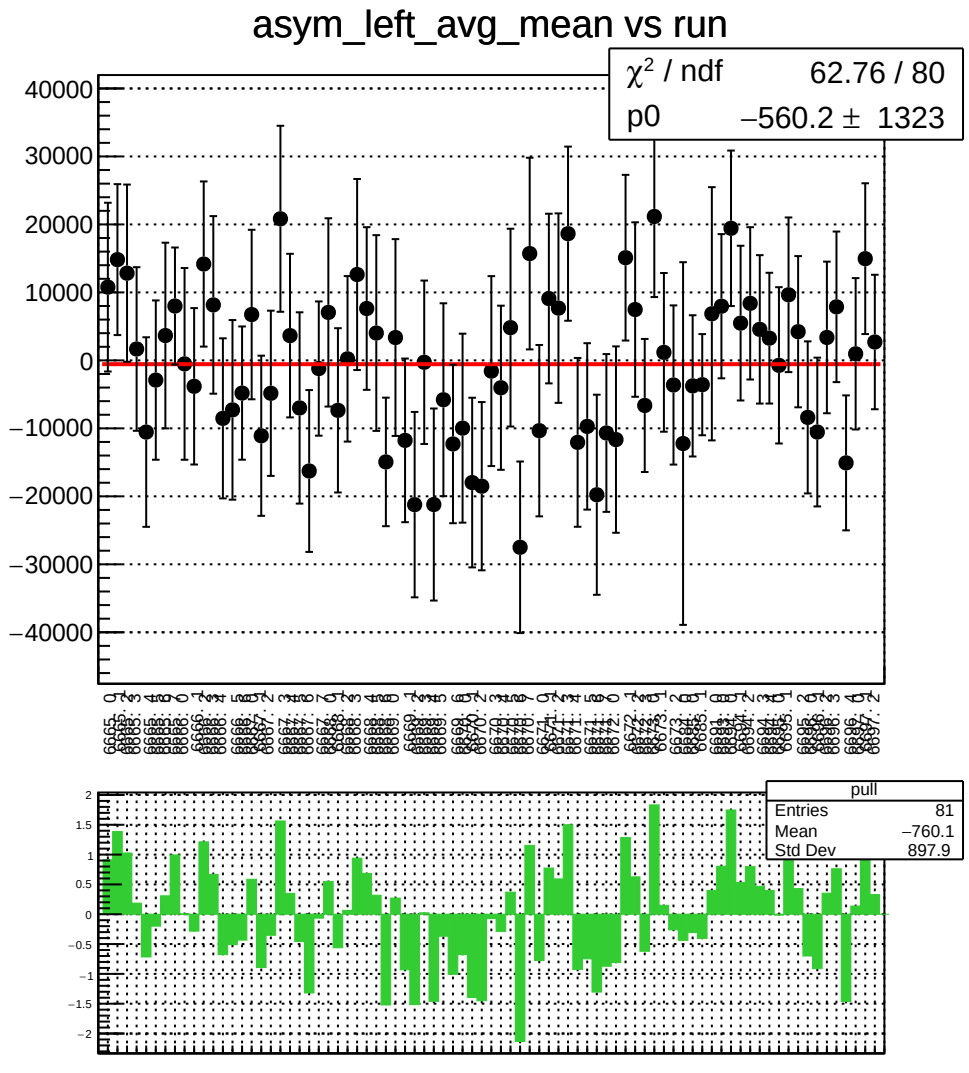

pull1D
Entries 81
Mean 0.01376
Std Dev 1.026
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

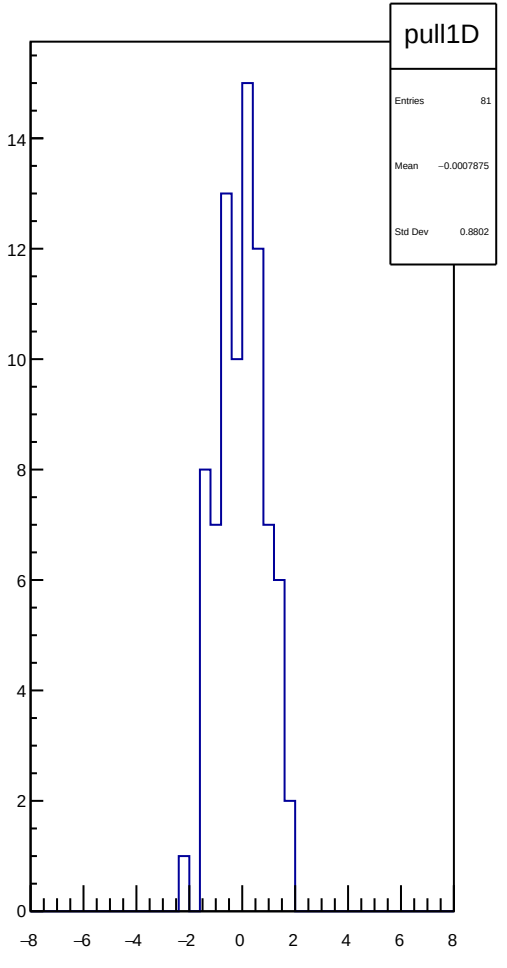

reg_asym_left_avg_rms vs run
χ² / ndf 321.3 / 80
p0 590.5 ± 0.4759
610
600
590
580
570
560
550

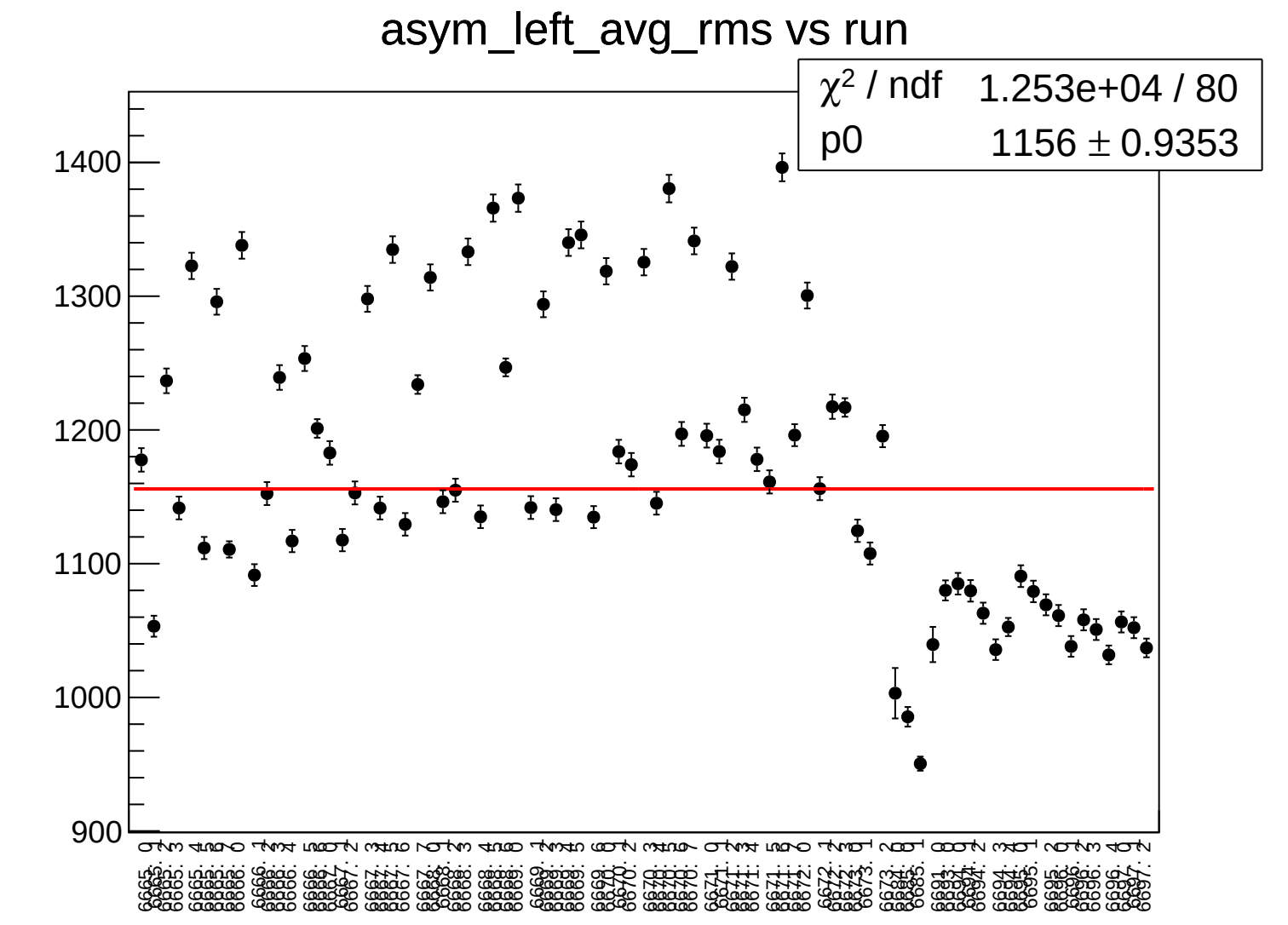

asym_left_avg_correction_mean vs run
χ² / ndf 57.42 / 80
p0 2072 ± 1131
pull
Entries 81
Mean −153.6
Std Dev 223.5

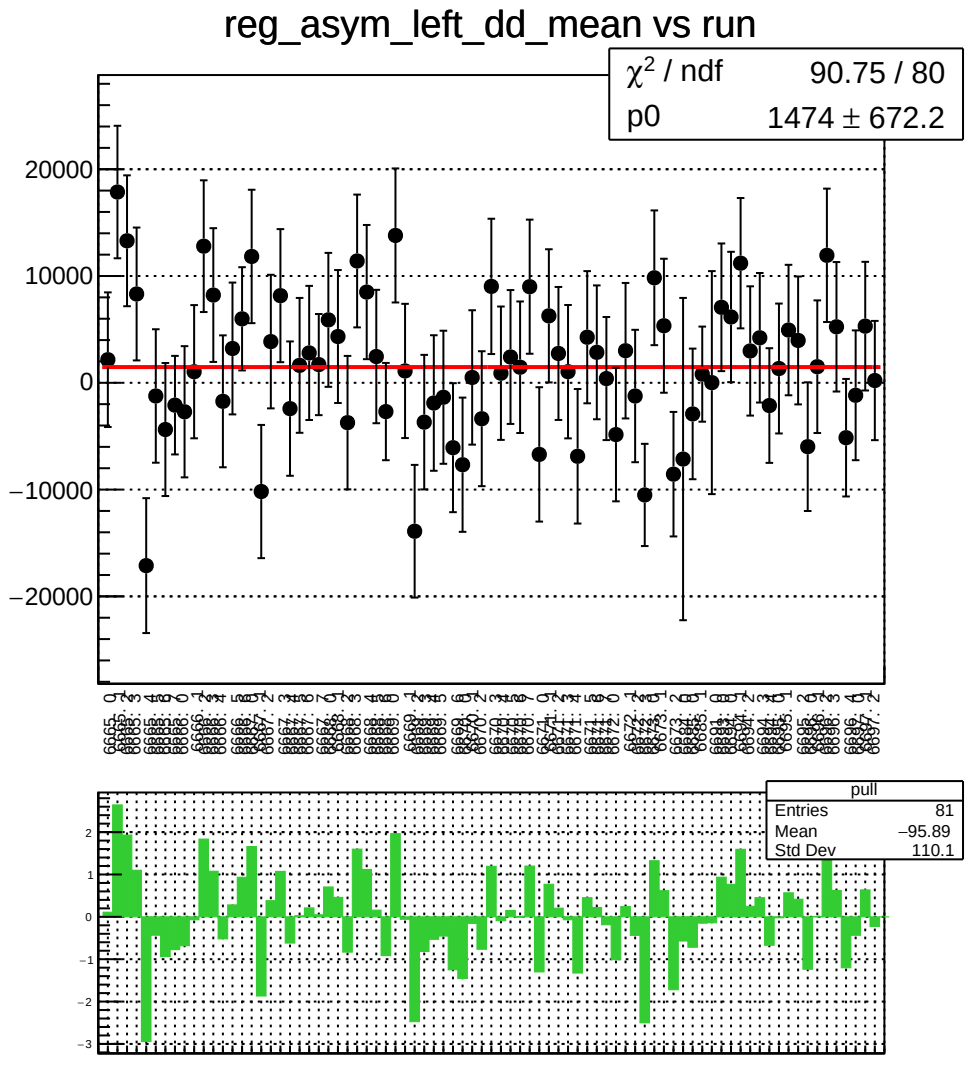

pull1D
Entries 81
Mean 0.008471
Std Dev 0.8419

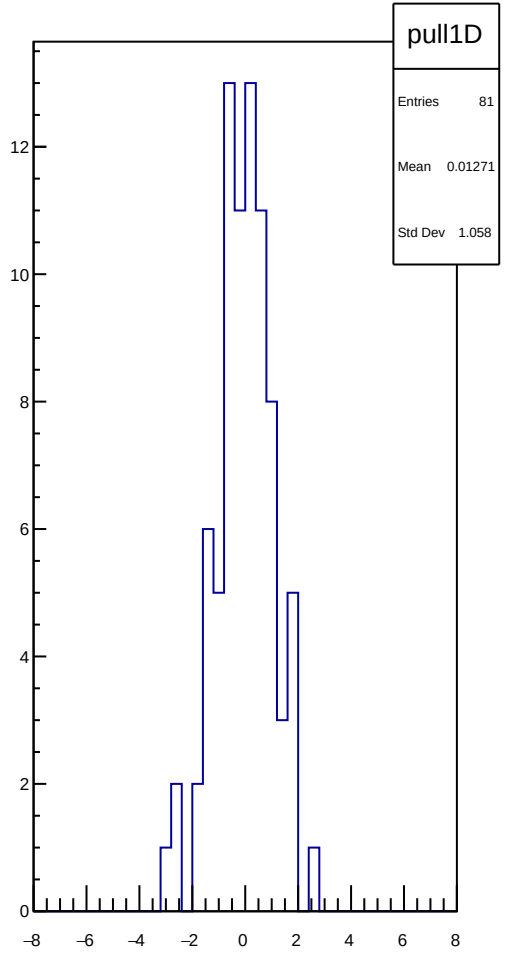

asym_left_avg_correction_rms vs run
χ² / ndf 2.161e+04 / 80
p0 985.7 ± 0.8
1300
1200
1100
1000
900
800

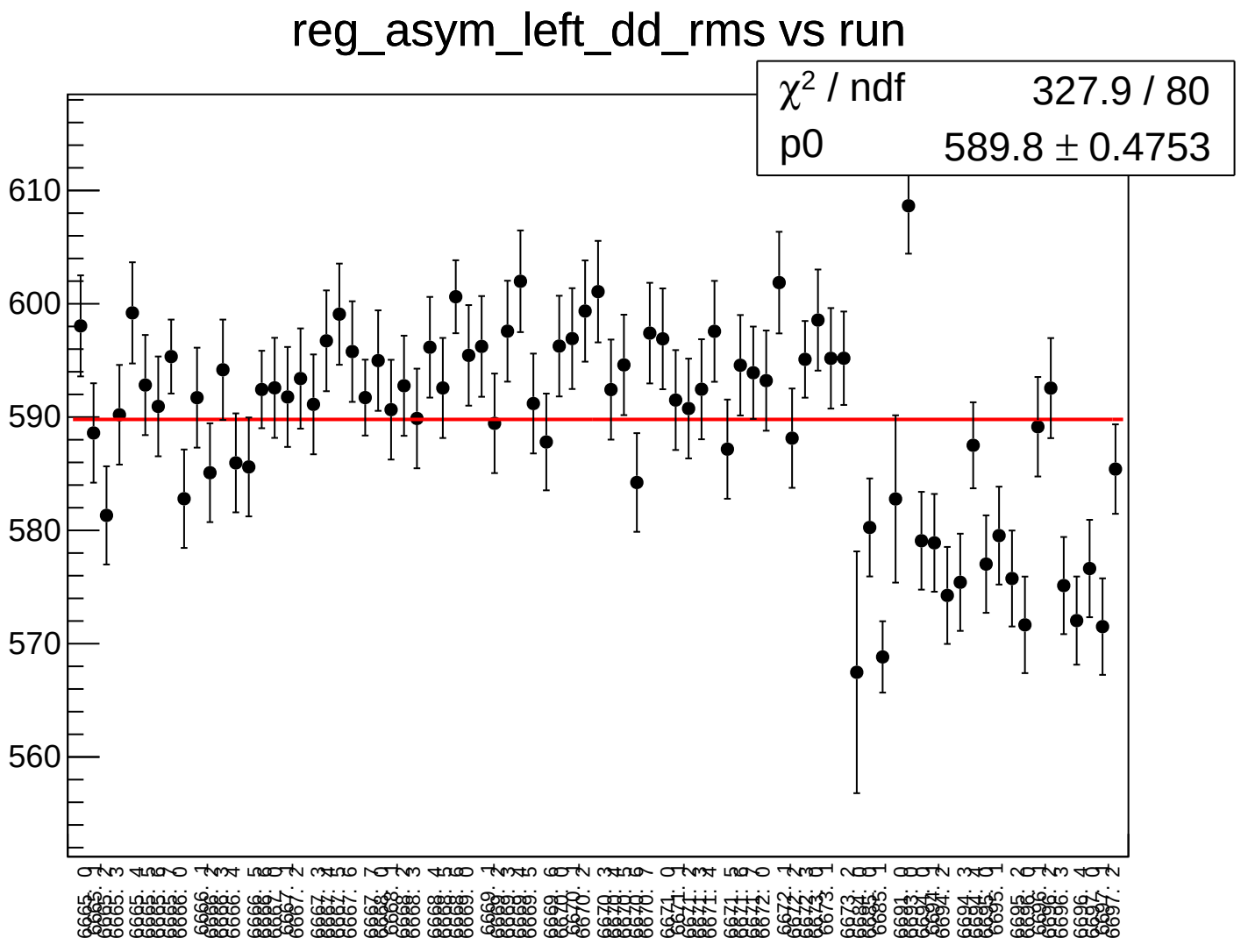

asym_left_avg_mean vs run
χ² / ndf 62.76 / 80
p0 −560.2 ± 1323
pull
Entries 81
Mean −760.1
Std Dev 897.9

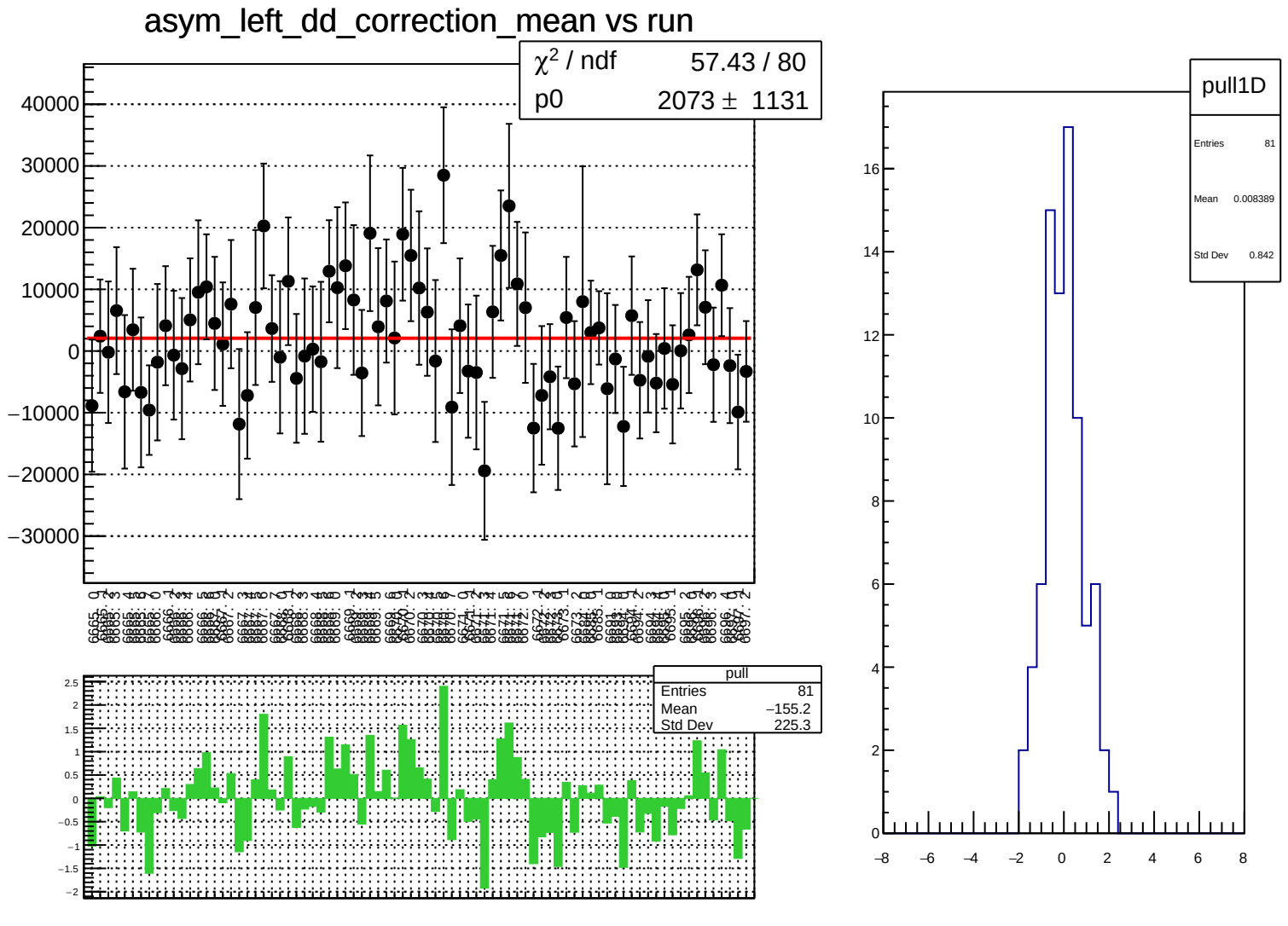

pull1D
Entries 81
Mean −0.0007875
Std Dev 0.8802

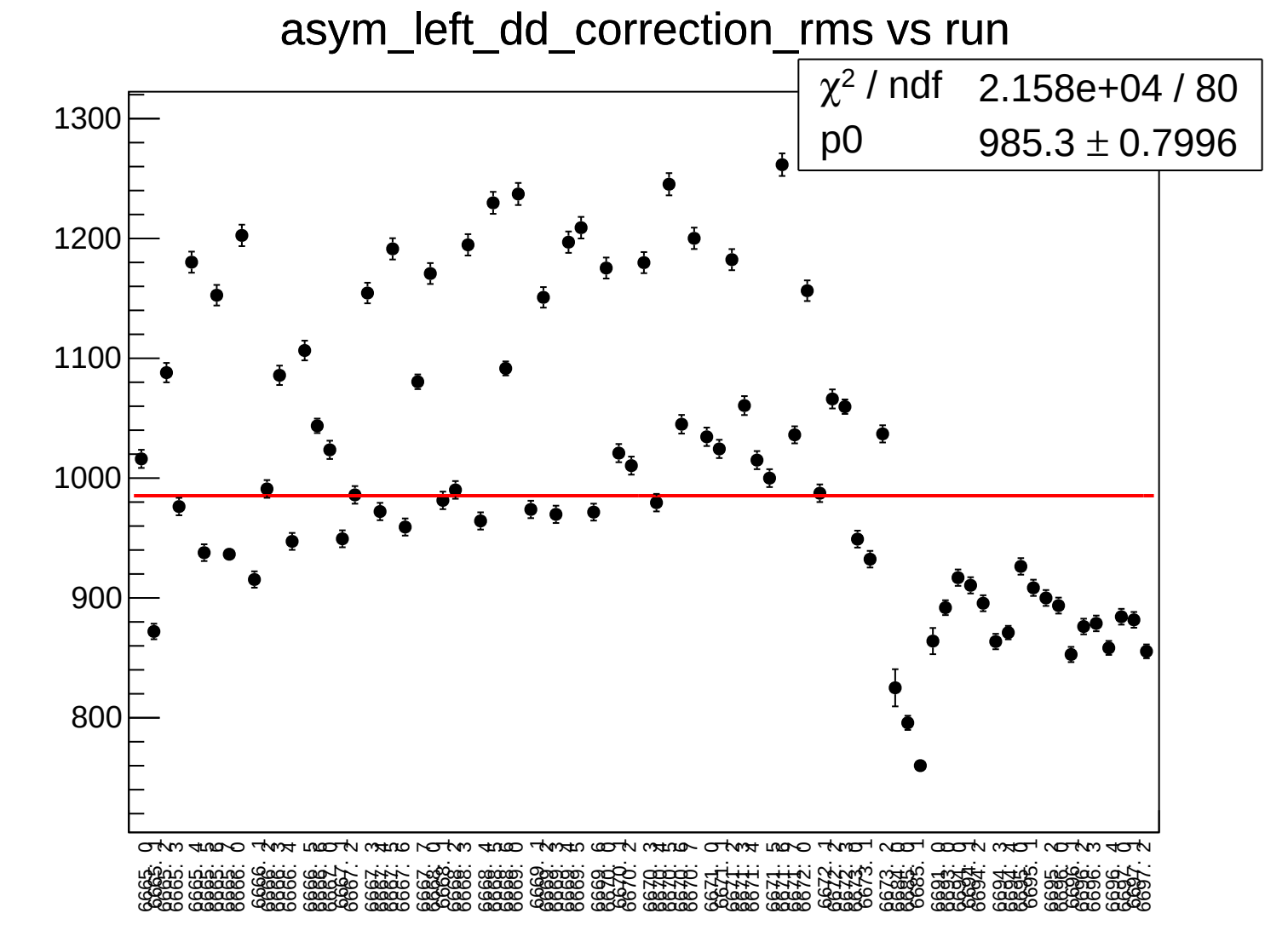

asym_left_avg_rms vs run
χ² / ndf 1.253e+04 / 80
p0 1156 ± 0.9353
1400
1300
1200
1100
1000
900

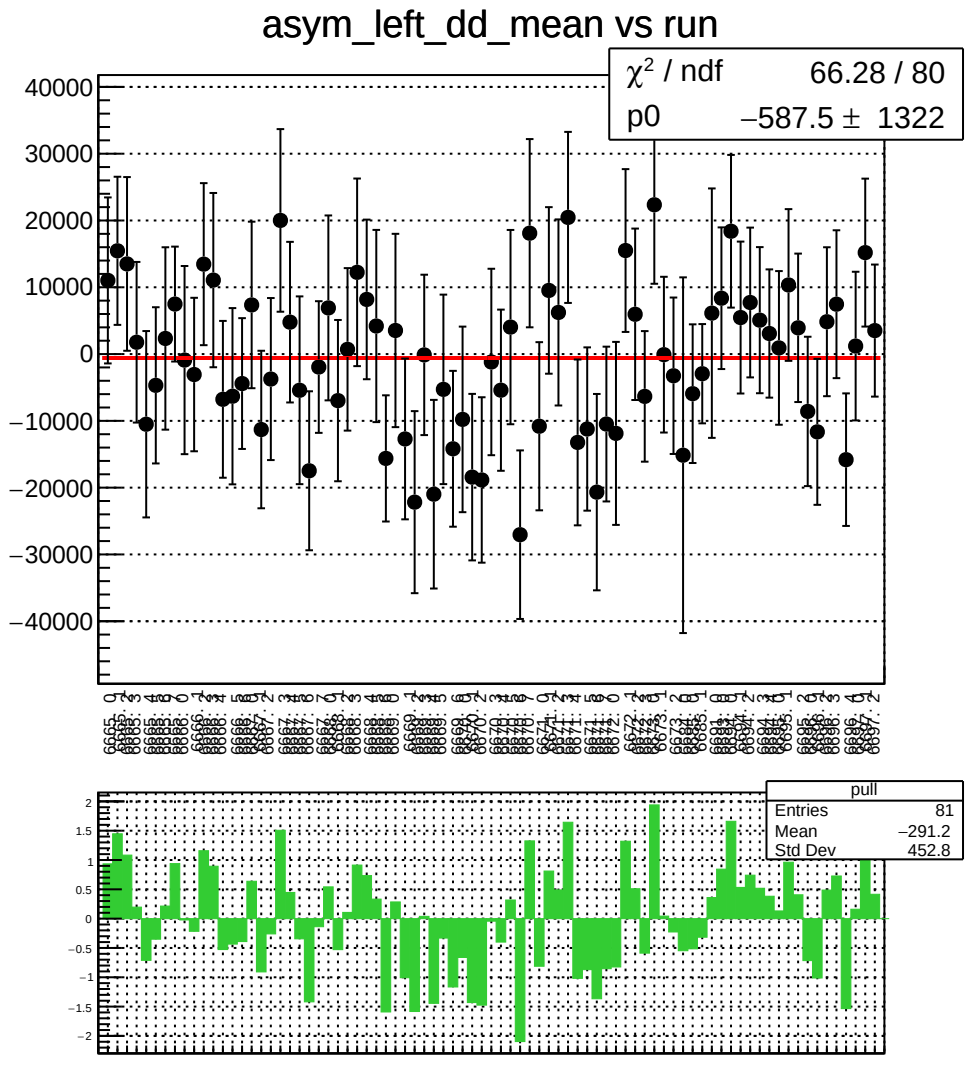

reg_asym_left_dd_mean vs run
χ² / ndf 90.75 / 80
p0 1474 ± 672.2
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −95.89
Std Dev 110.1
2
1
0
−1
−2
−3

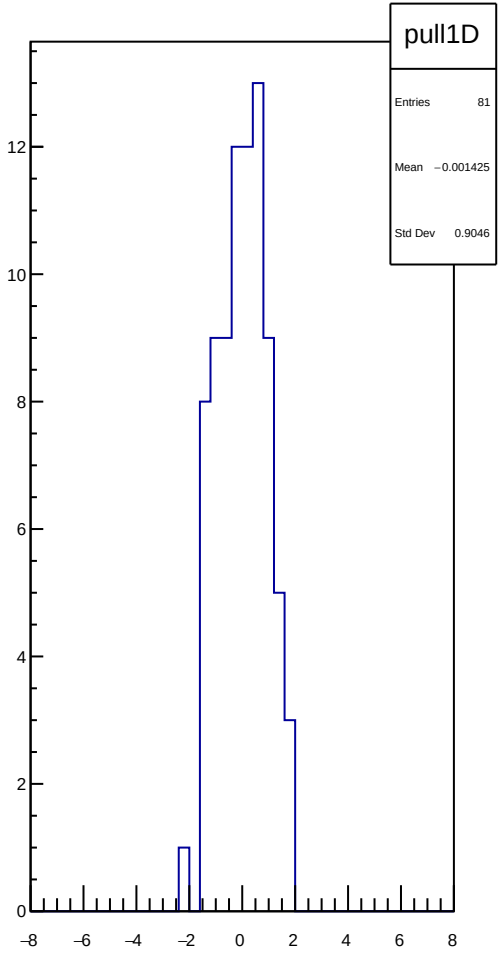

pull1D
Entries 81
Mean 0.01271
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

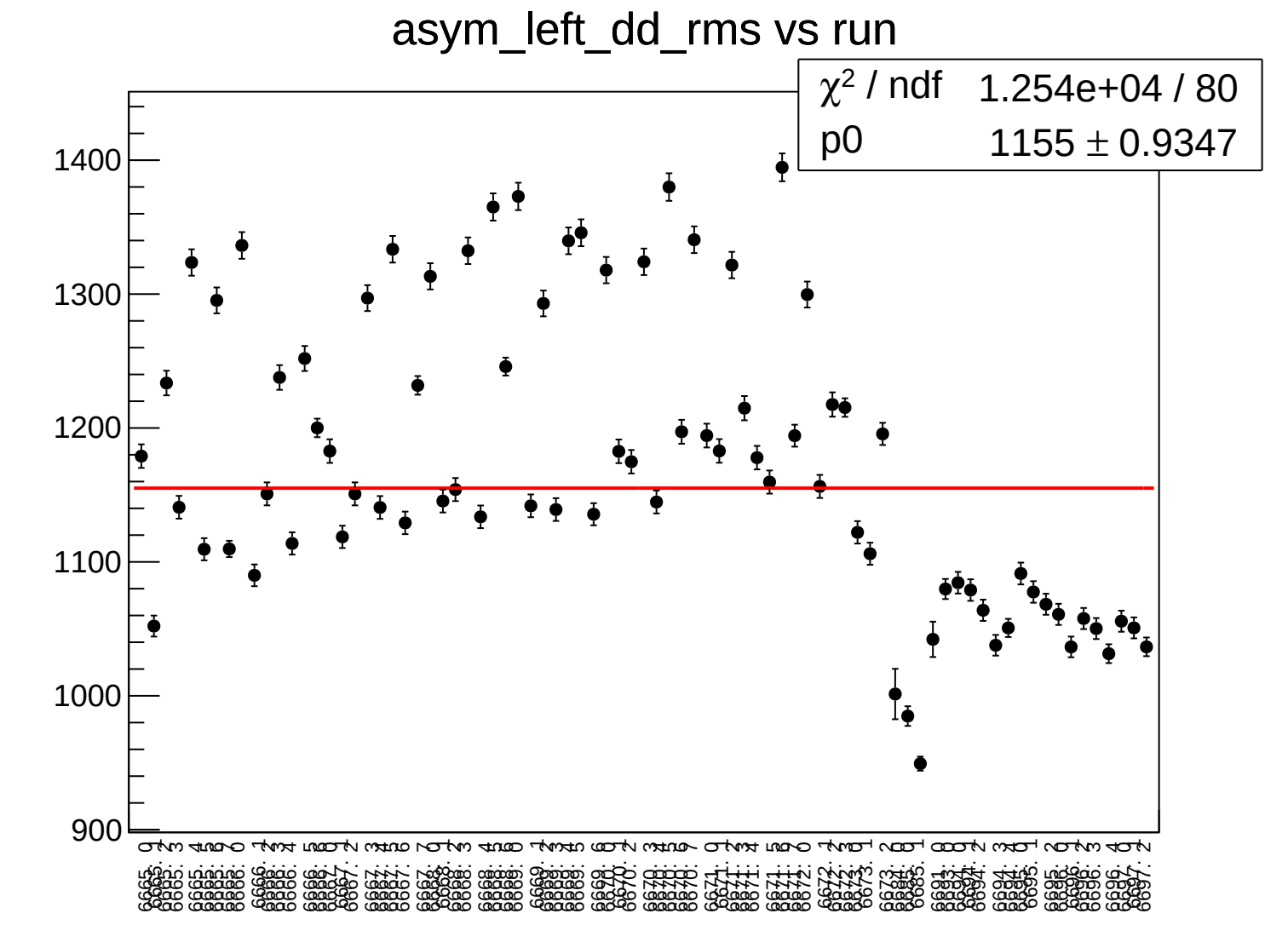

reg_asym_left_dd_rms vs run
χ² / ndf 327.9 / 80
p0 589.8 ± 0.4753
610
600
590
580
570
560

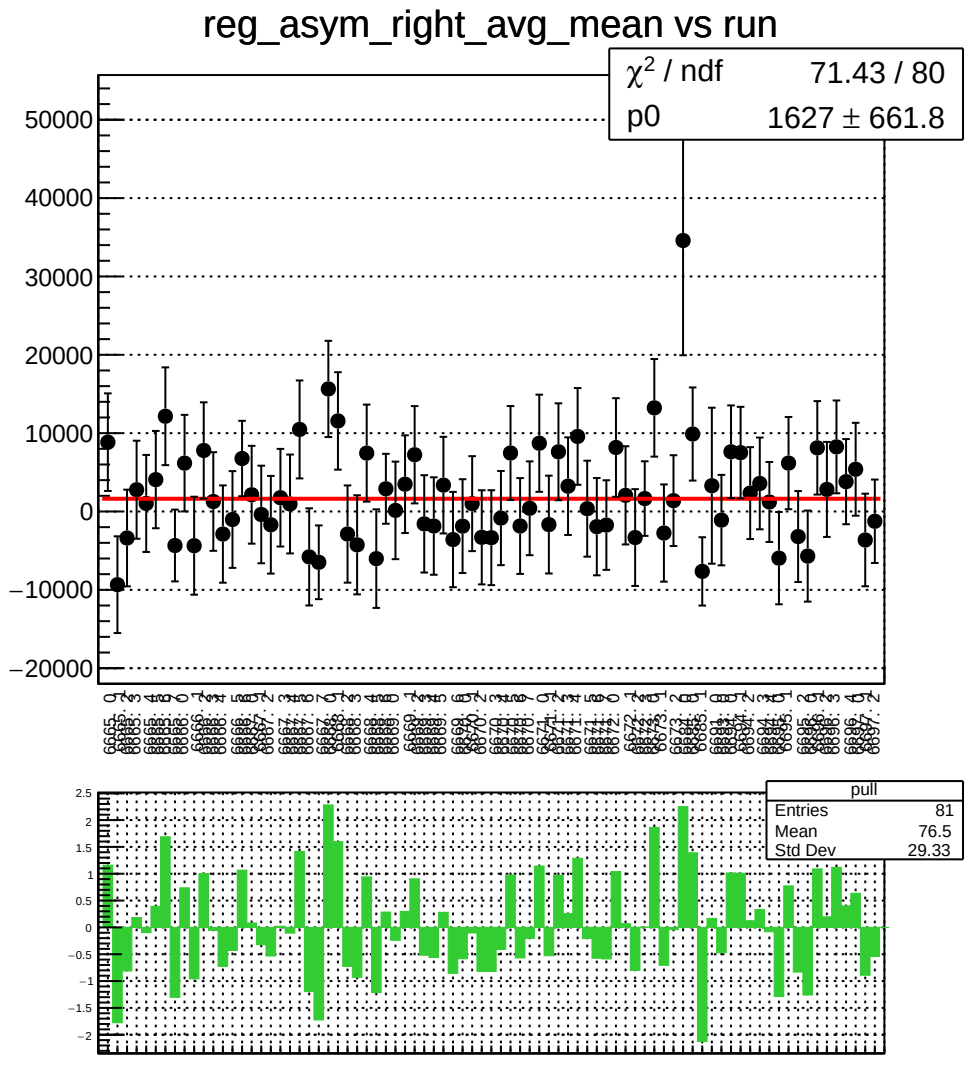

asym_left_dd_correction_mean vs run
χ² / ndf 57.43 / 80
p0 2073 ± 1131
pull
Entries 81
Mean −155.2
Std Dev 225.3
pull1D
Entries 81
Mean 0.008389
Std Dev 0.842

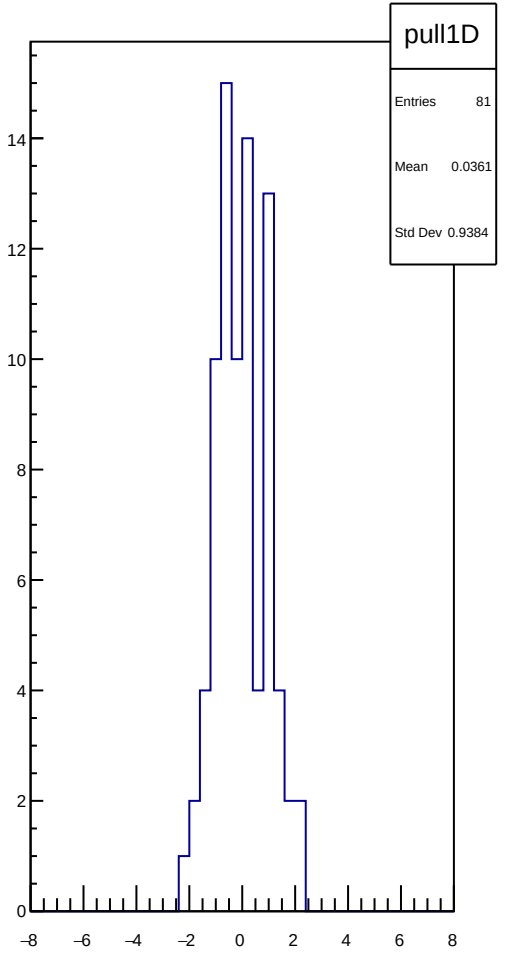

asym_left_dd_correction_rms vs run
χ² / ndf 2.158e+04 / 80
p0 985.3 ± 0.7996
1300
1200
1100
1000
900
800

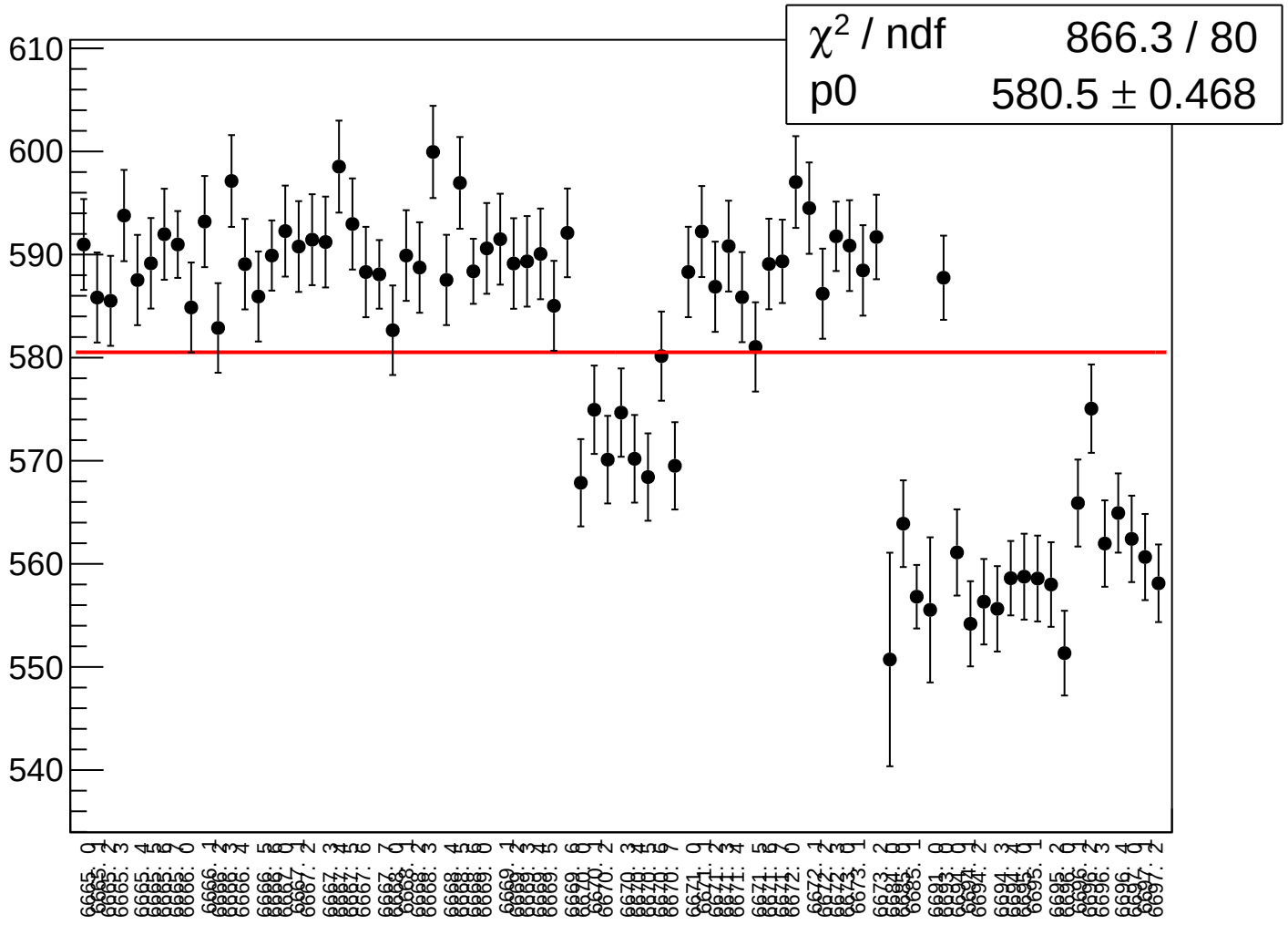

asym_left_dd_mean vs run
χ² / ndf 66.28 / 80
p0 −587.5 ± 1322
pull
Entries 81
Mean −291.2
Std Dev 452.8

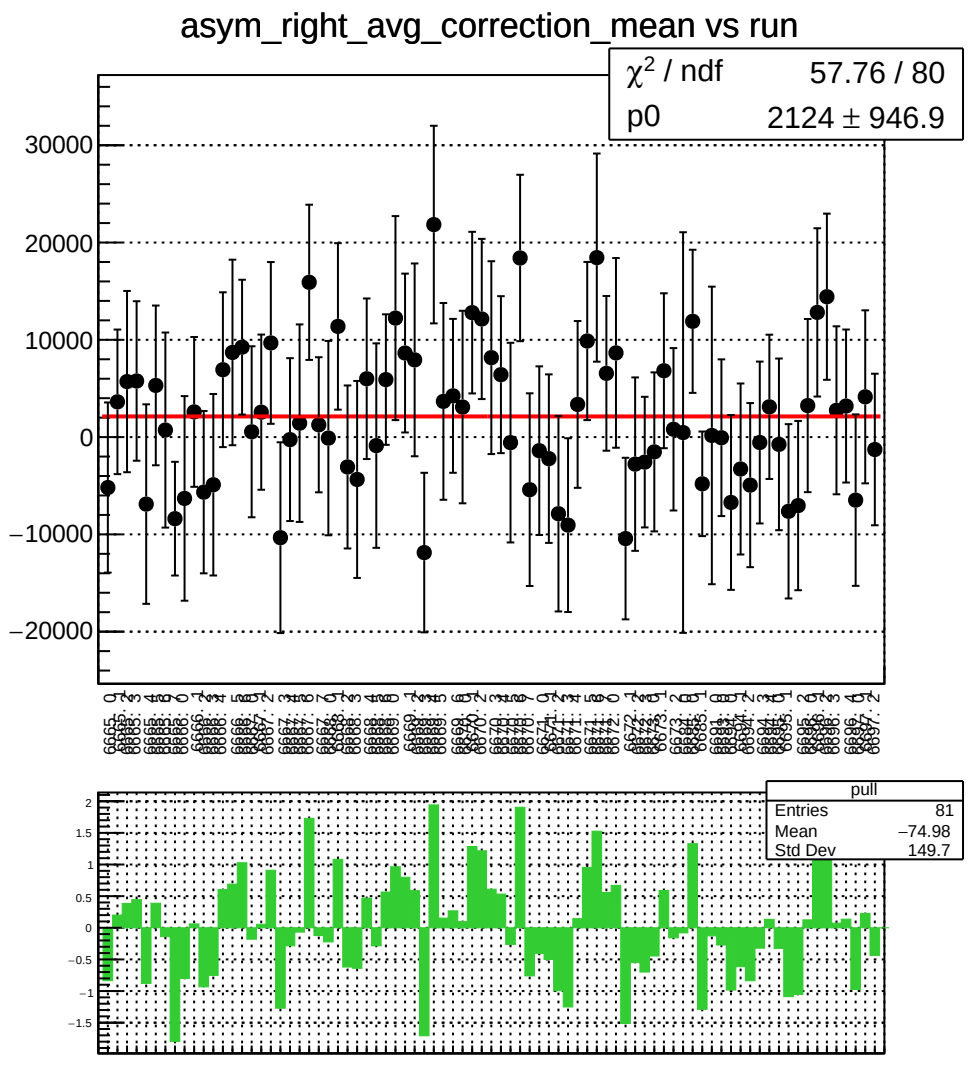

pull1D
Entries 81
Mean −0.001425
Std Dev 0.9046

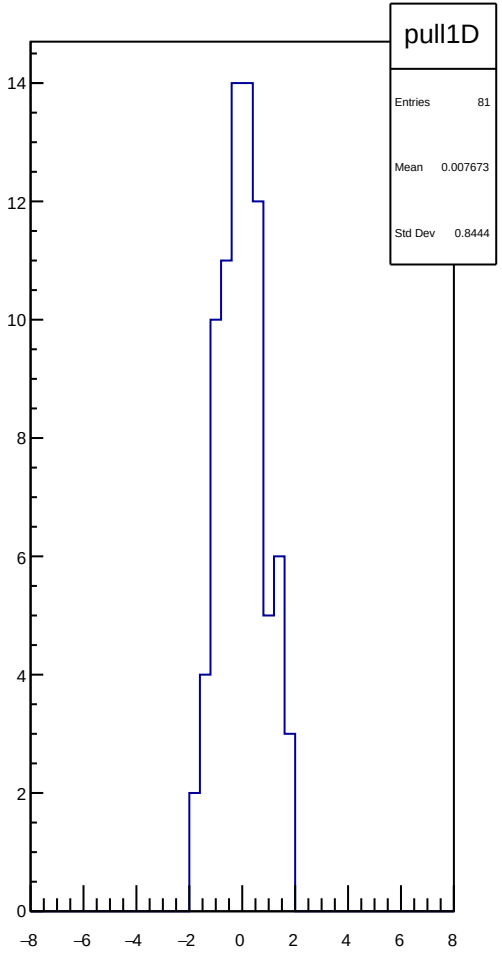

asym_left_dd_rms vs run
χ² / ndf 1.254e+04 / 80
p0 1155 ± 0.9347
1400
1300
1200
1100
1000
900

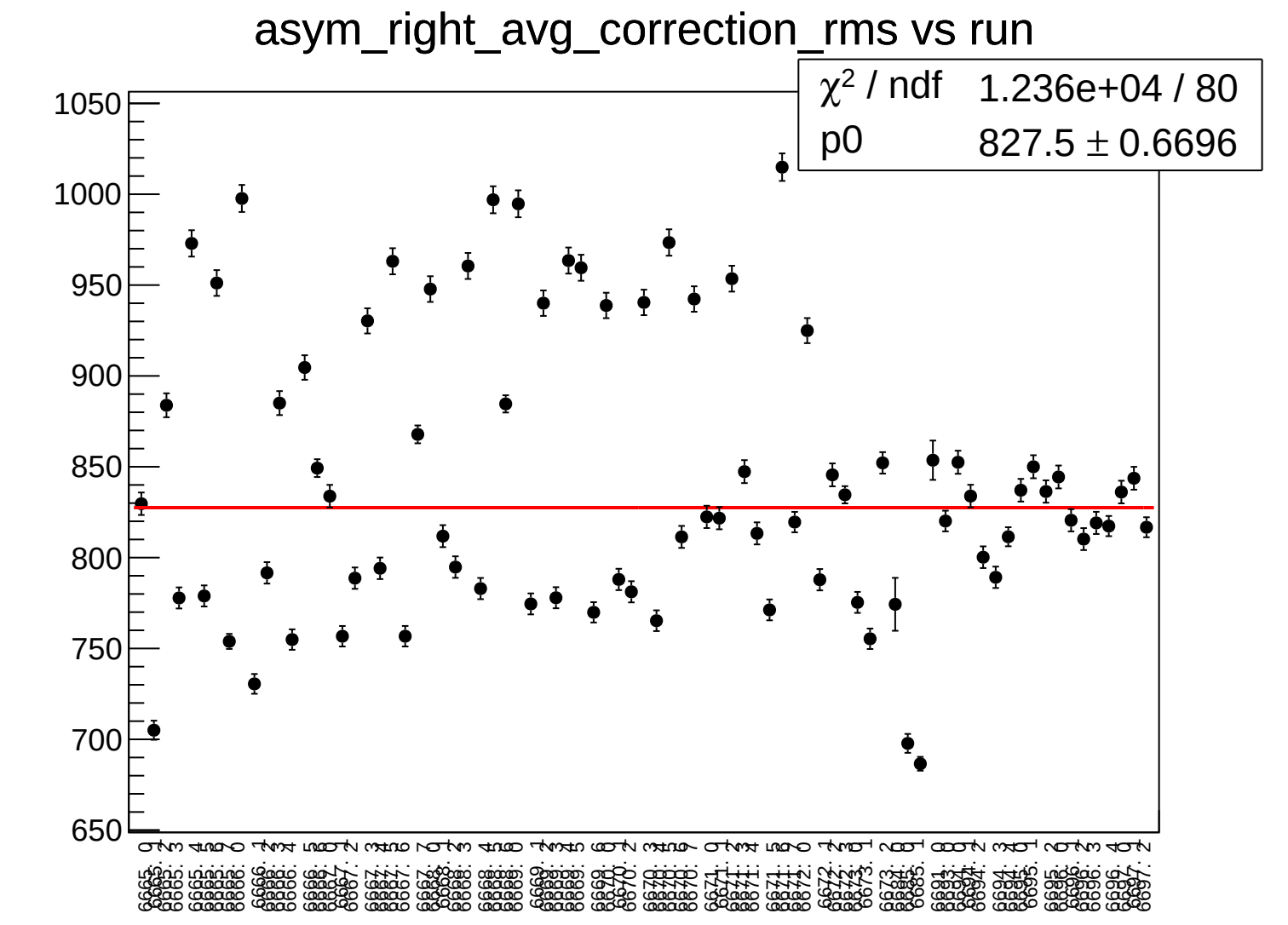

reg_asym_right_avg_mean vs run
χ² / ndf 71.43 / 80
p0 1627 ± 661.8
pull
Entries 81
Mean 76.5
Std Dev 29.33

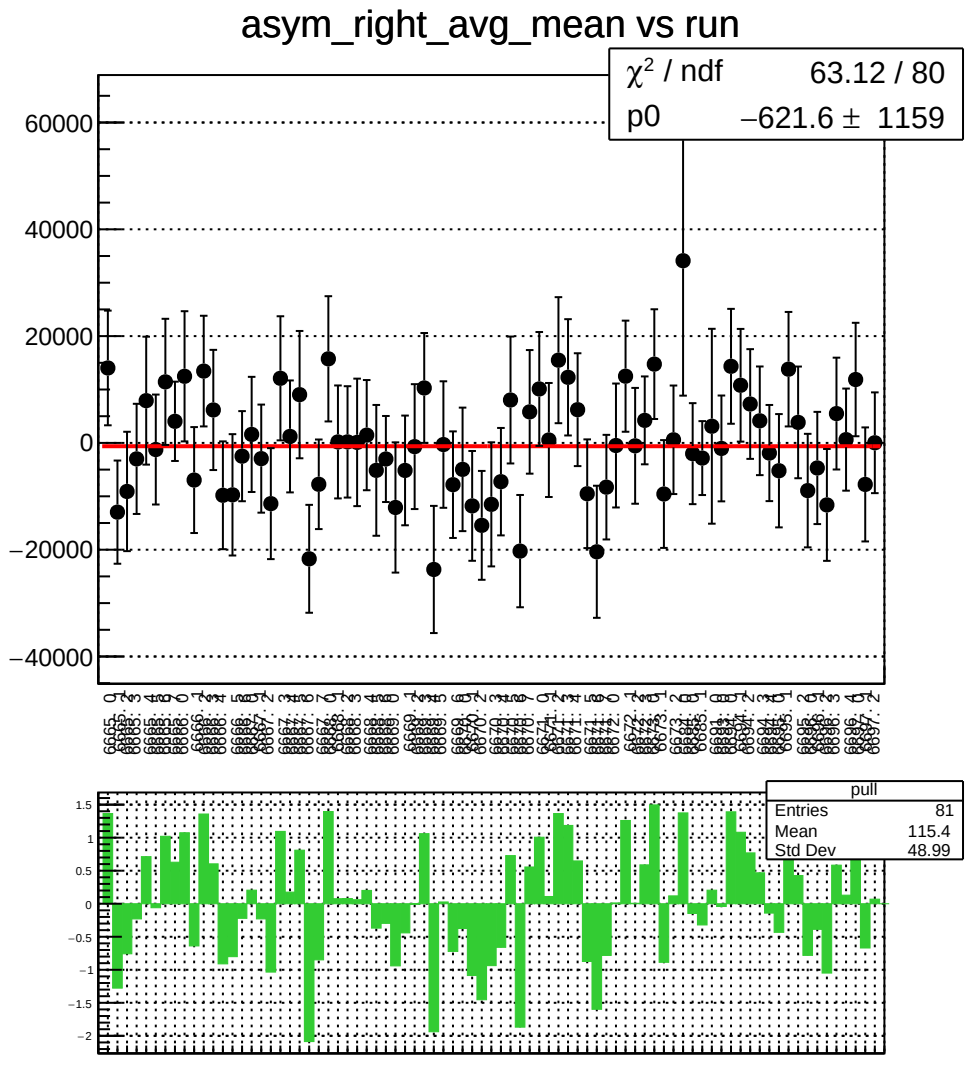

pull1D
Entries 81
Mean 0.0361
Std Dev 0.9384

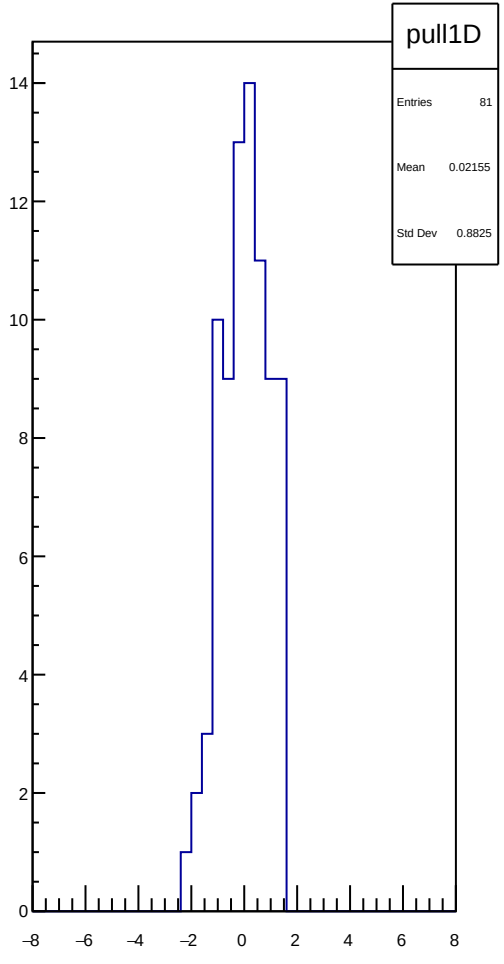

reg_asym_right_avg_rms vs run
χ^2 / ndf 866.3 / 80
p0 580.5 ± 0.468
610
600
590
580
570
560
550
540

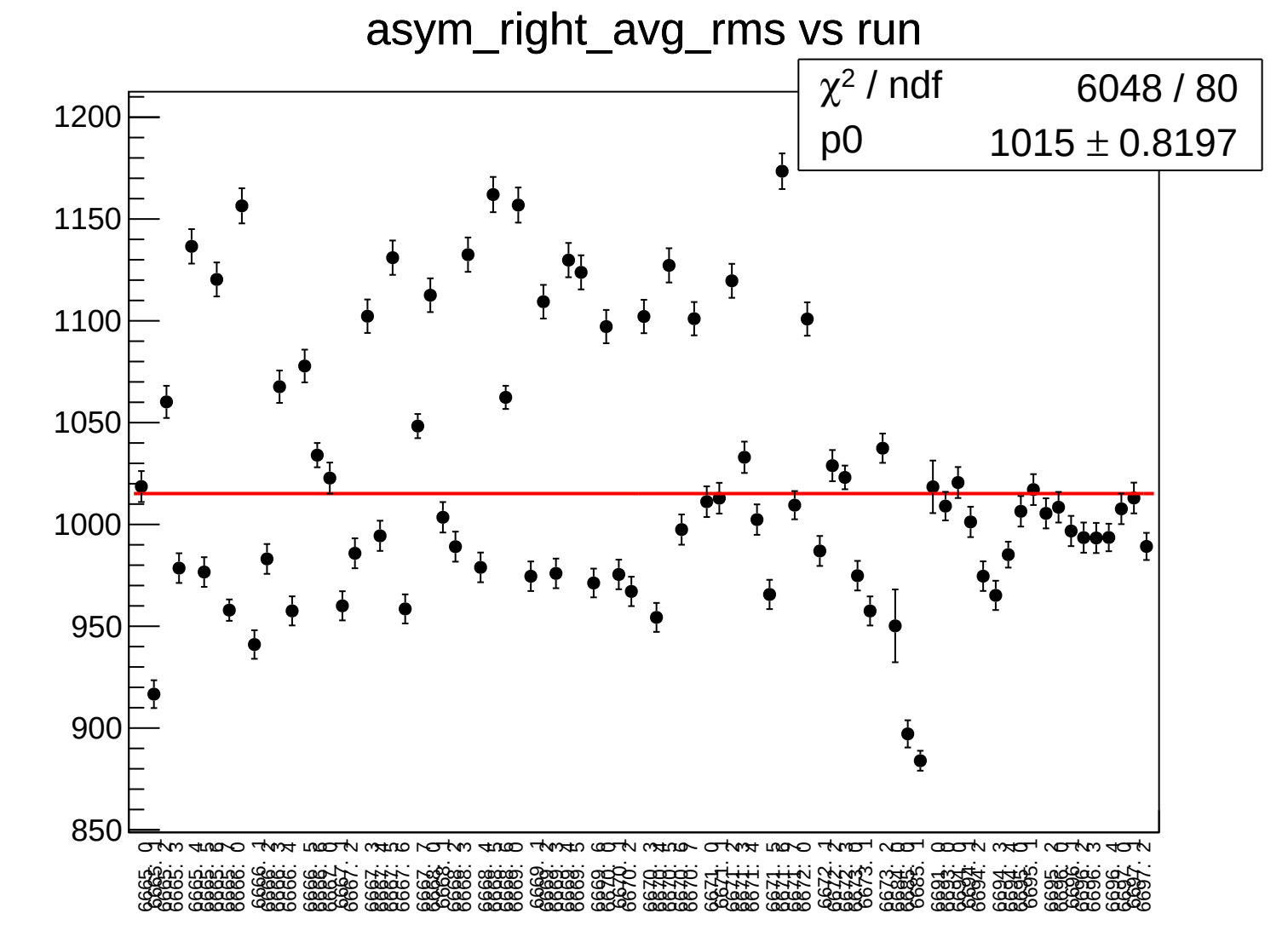

asym_right_avg_correction_mean vs run
χ² / ndf 57.76 / 80
p0 2124 ± 946.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −74.98
Std Dev 149.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

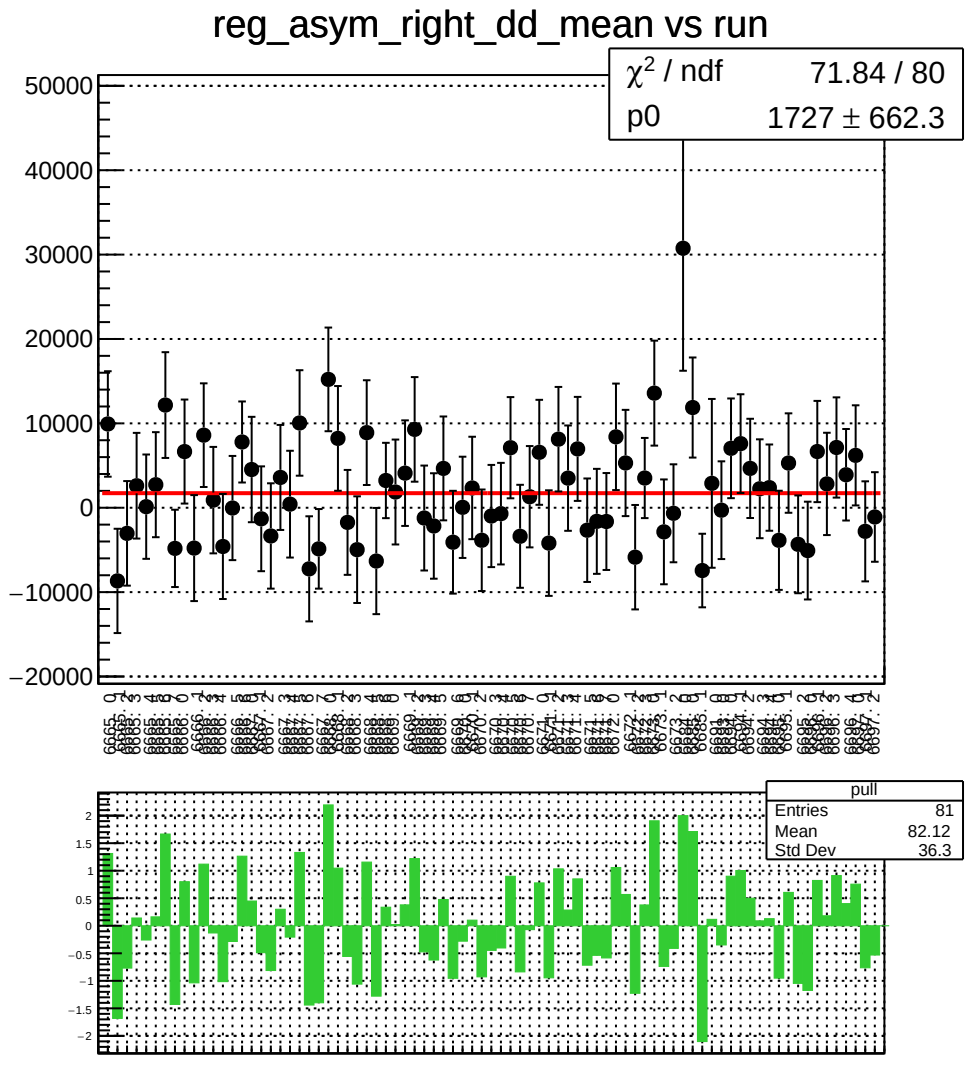

pull1D
Entries 81
Mean 0.007673
Std Dev 0.8444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

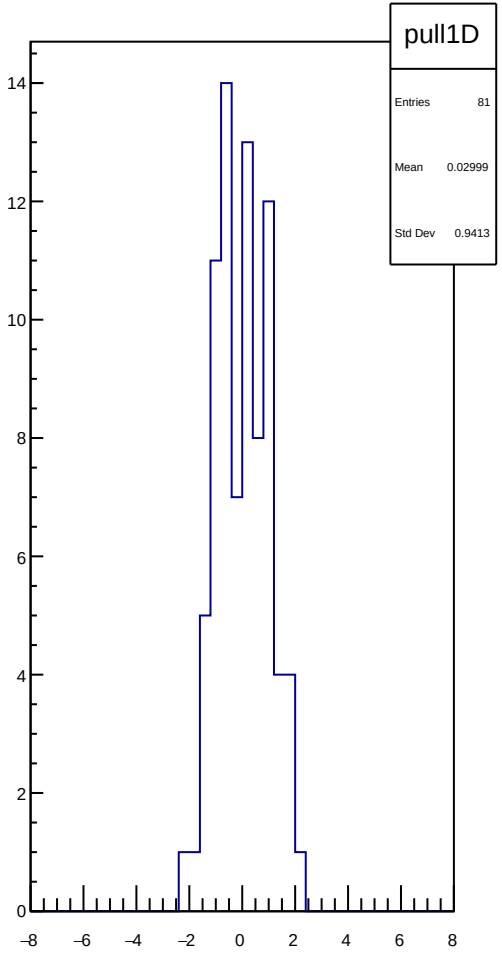

asym_right_avg_correction_rms vs run
χ² / ndf 1.236e+04 / 80
p0 827.5 ± 0.6696
1050
1000
950
900
850
800
750
700
650

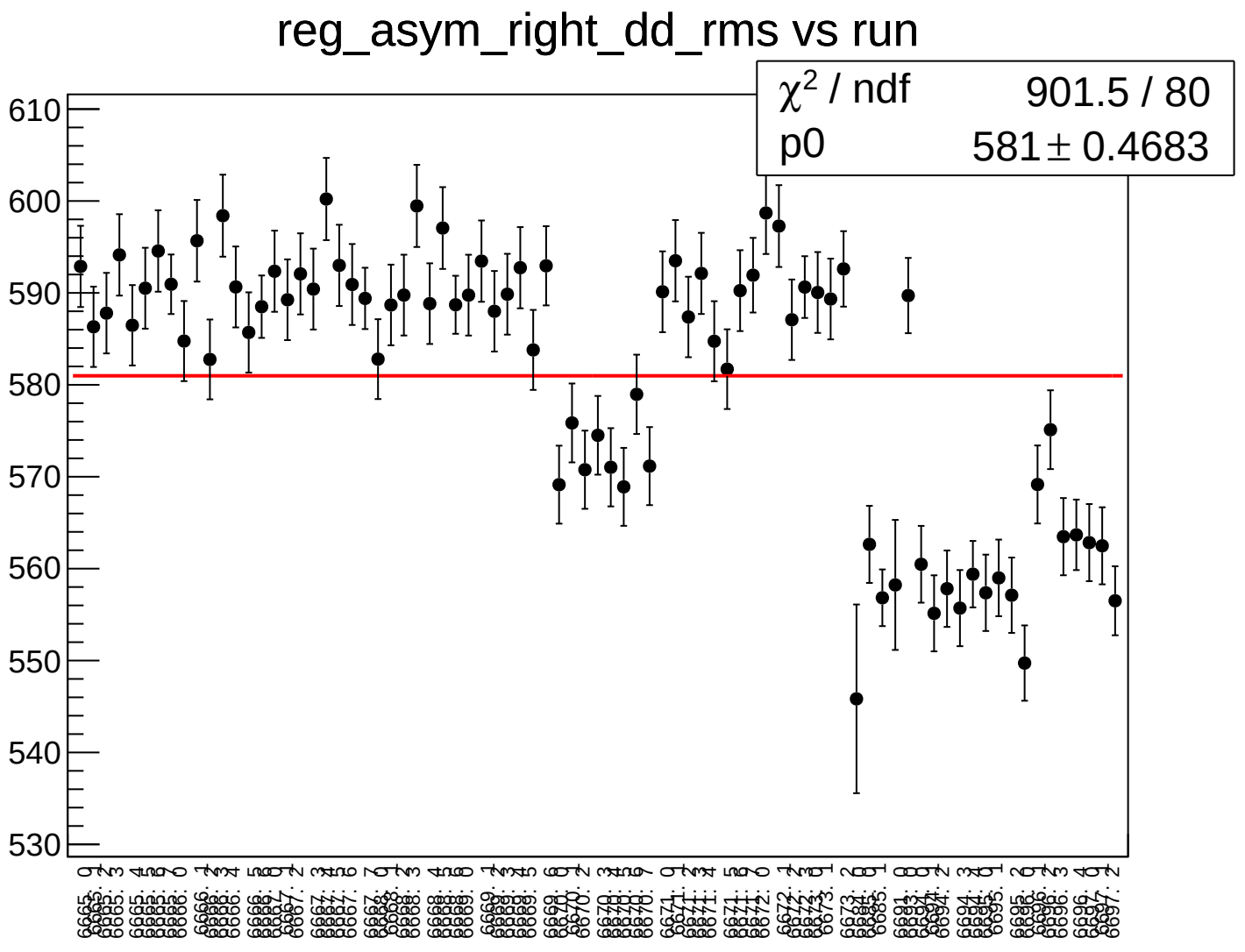

asym_right_avg_mean vs run
χ² / ndf 63.12 / 80
p0 −621.6 ± 1159
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 115.4
Std Dev 48.99
1.5
1
0.5
0
−0.5
−1
−1.5
−2

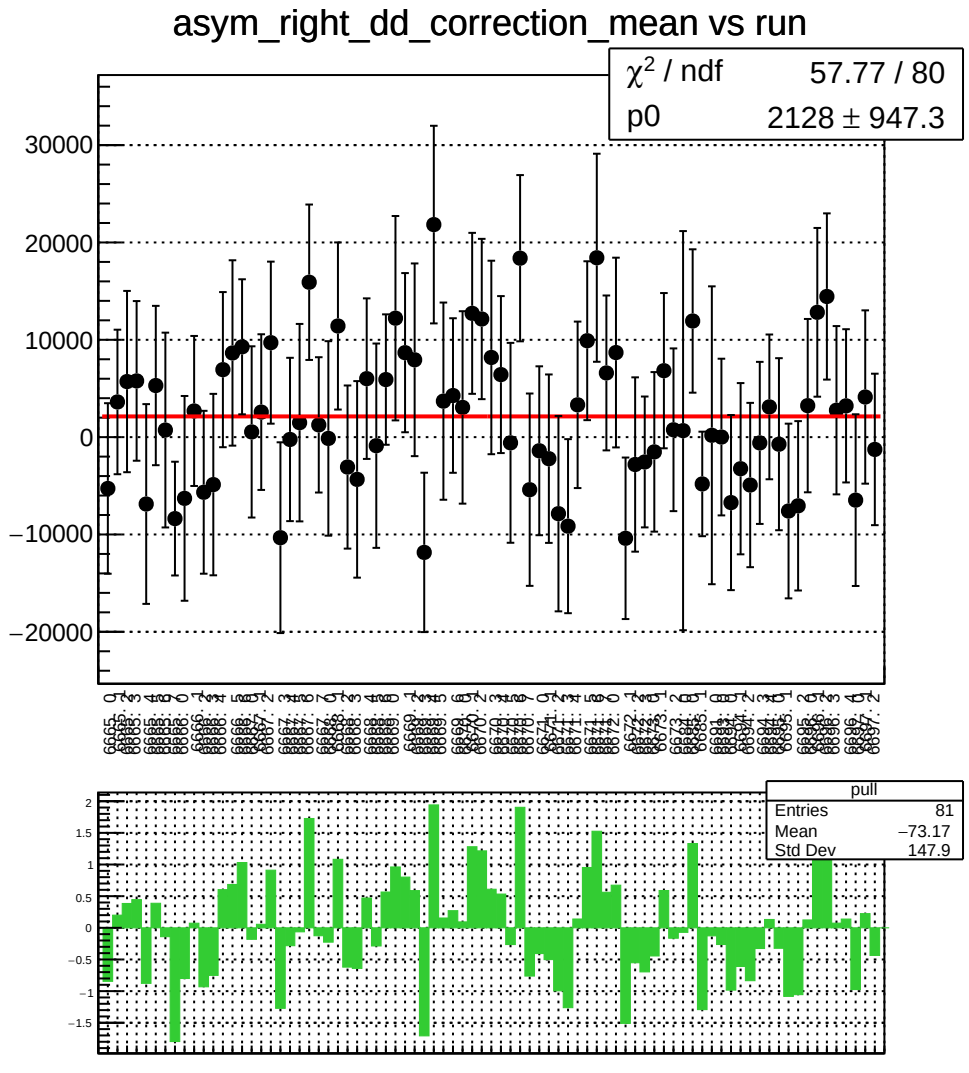

pull1D
Entries 81
Mean 0.02155
Std Dev 0.8825
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

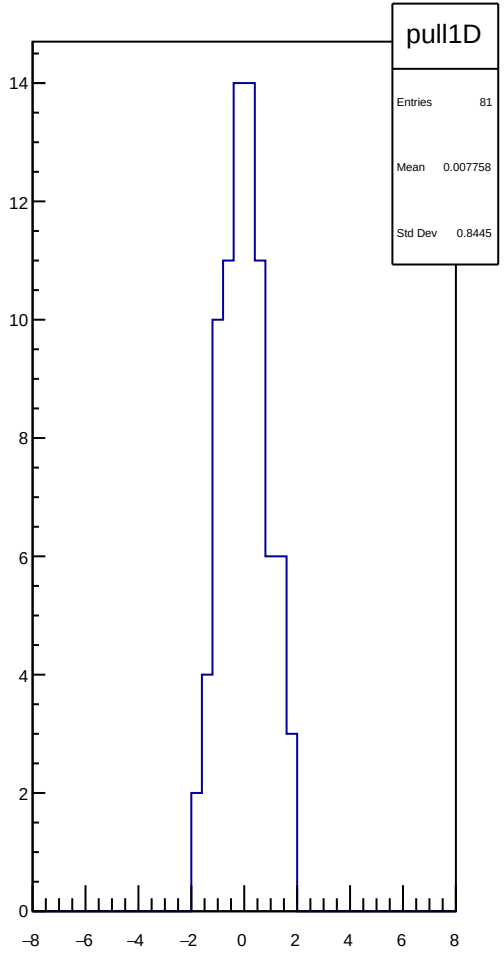

asym_right_avg_rms vs run
χ² / ndf 6048 / 80
p0 1015 ± 0.8197
1200
1150
1100
1050
1000
950
900
850

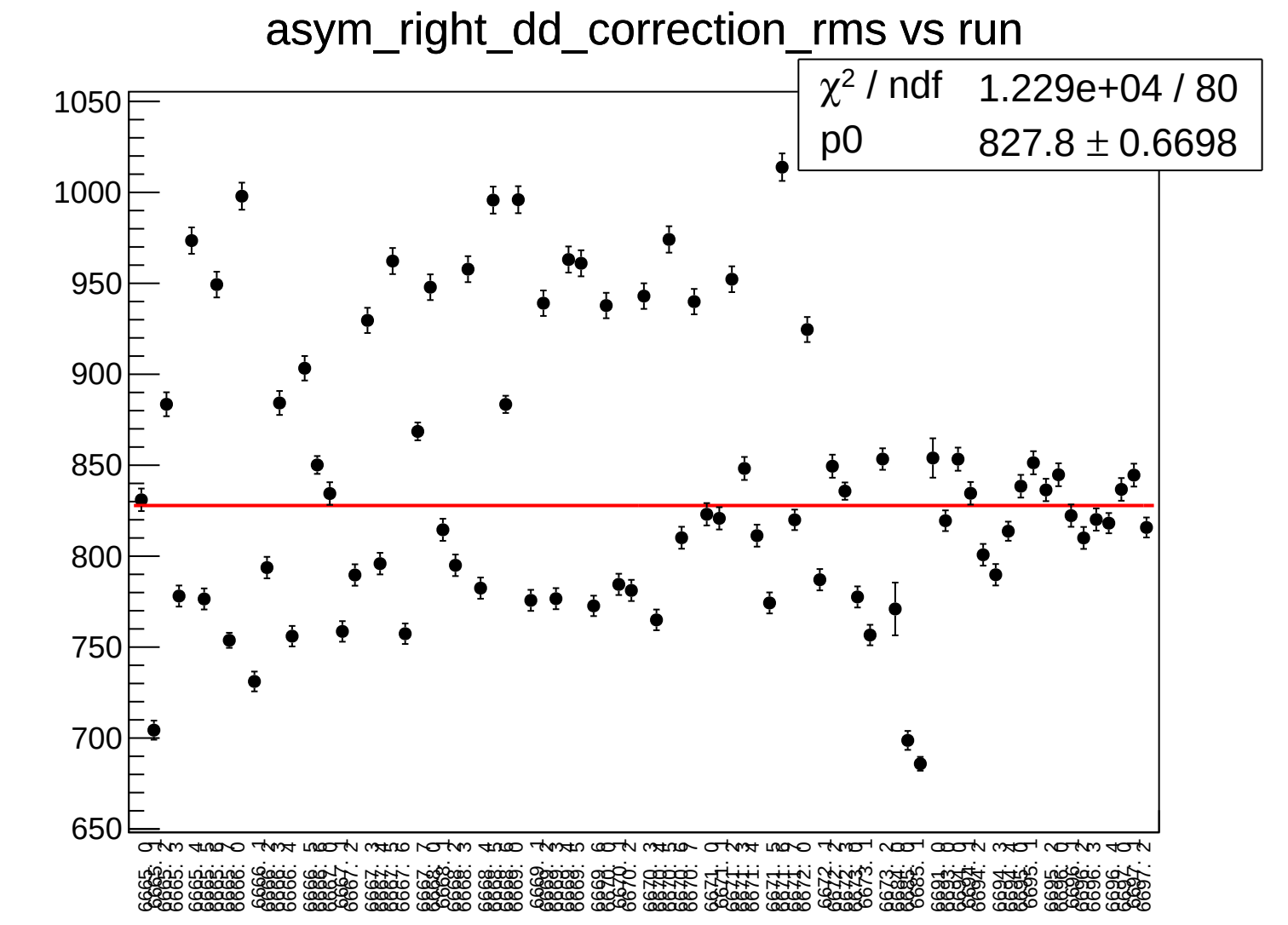

reg_asym_right_dd_mean vs run
χ² / ndf 71.84 / 80
p0 1727 ± 662.3
pull
Entries 81
Mean 82.12
Std Dev 36.3

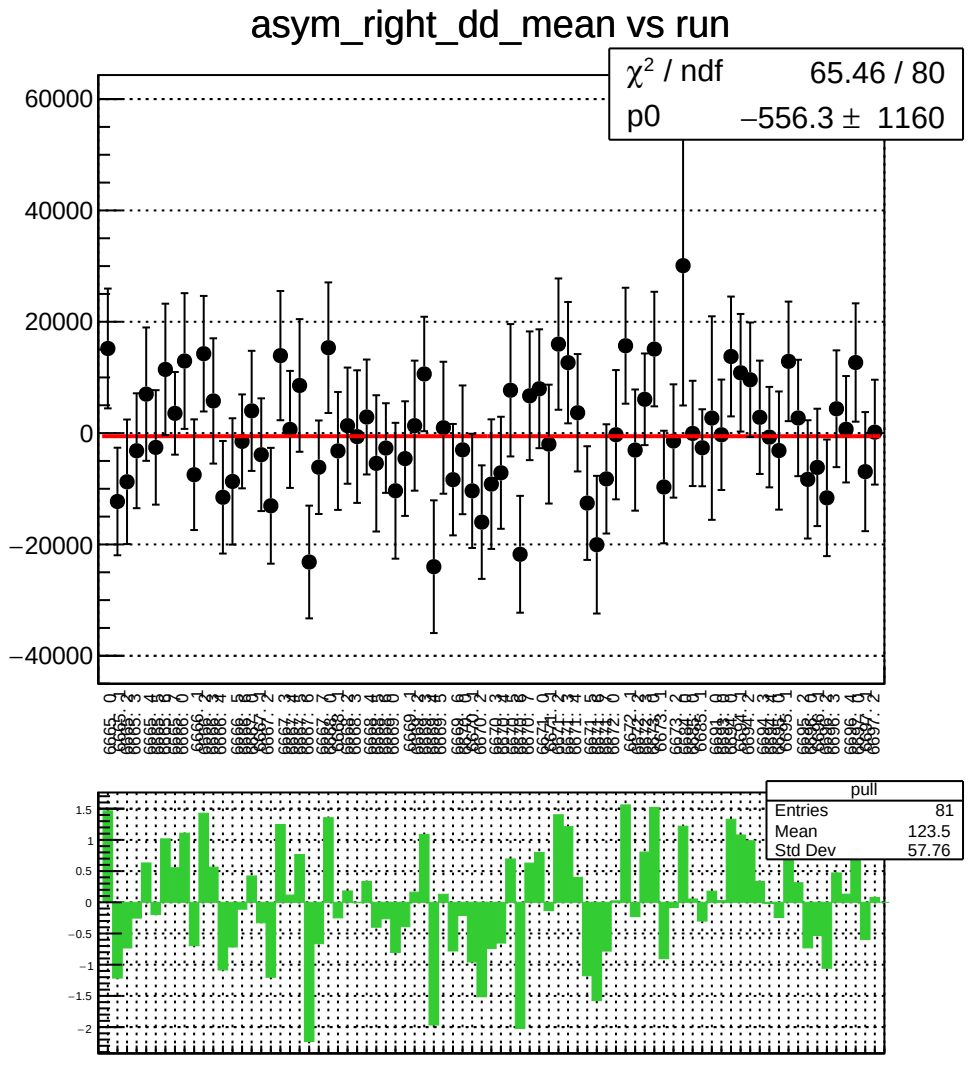

pull1D
Entries 81
Mean 0.02999
Std Dev 0.9413

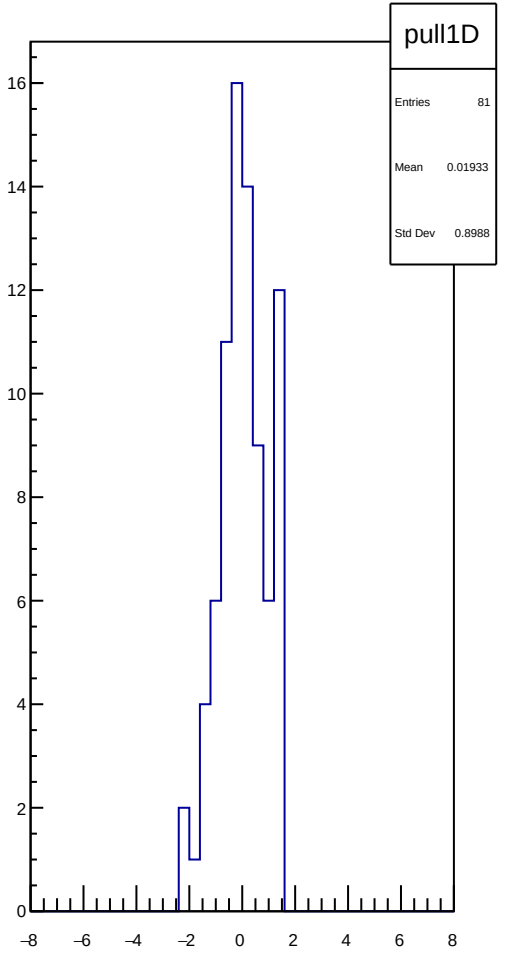

reg_asym_right_dd_rms vs run
χ² / ndf 901.5 / 80
p0 581 ± 0.4683
610
600
590
580
570
560
550
540
530

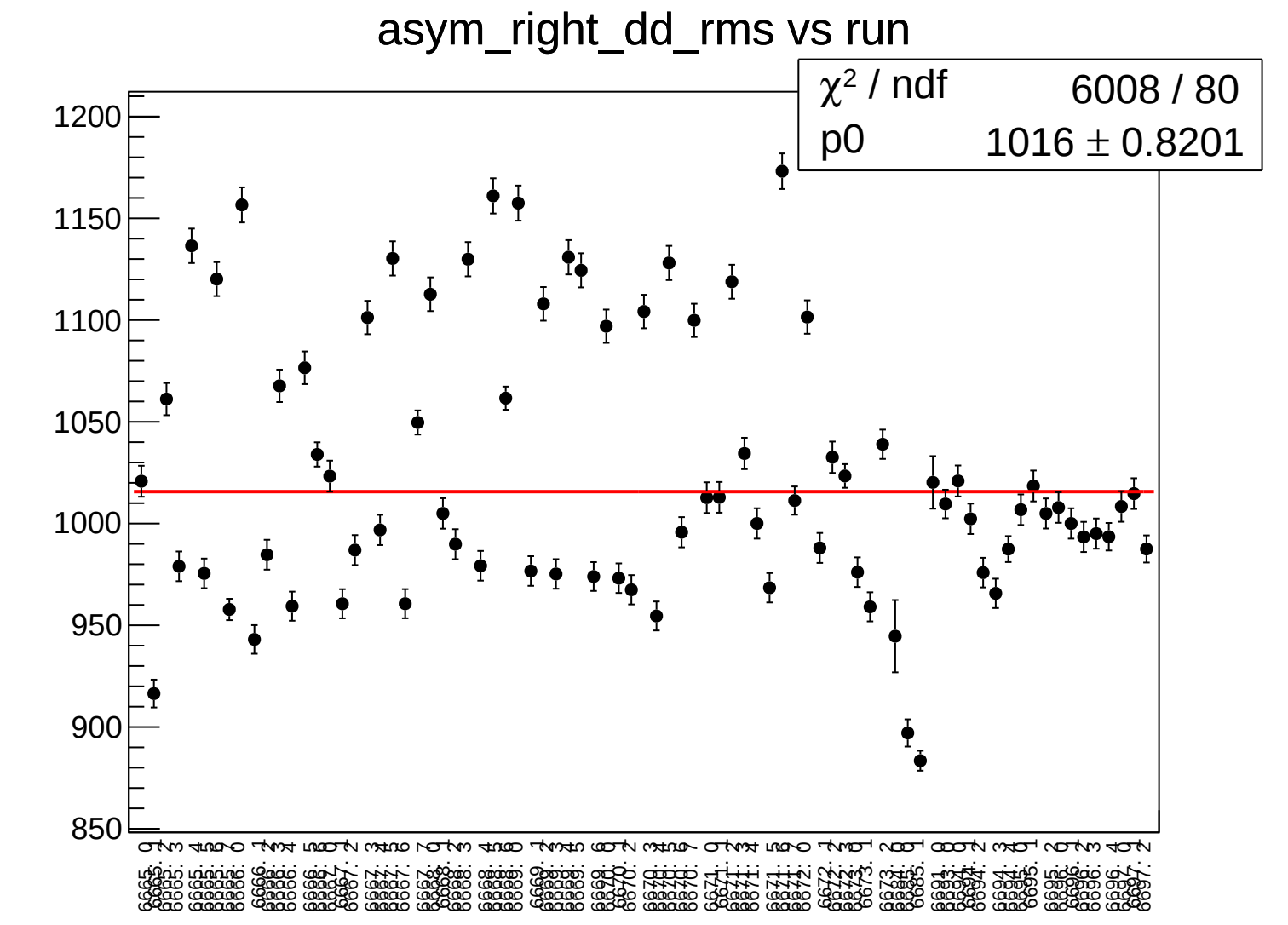

asym_right_dd_correction_mean vs run
χ² / ndf 57.77 / 80
p0 2128 ± 947.3
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −73.17
Std Dev 147.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

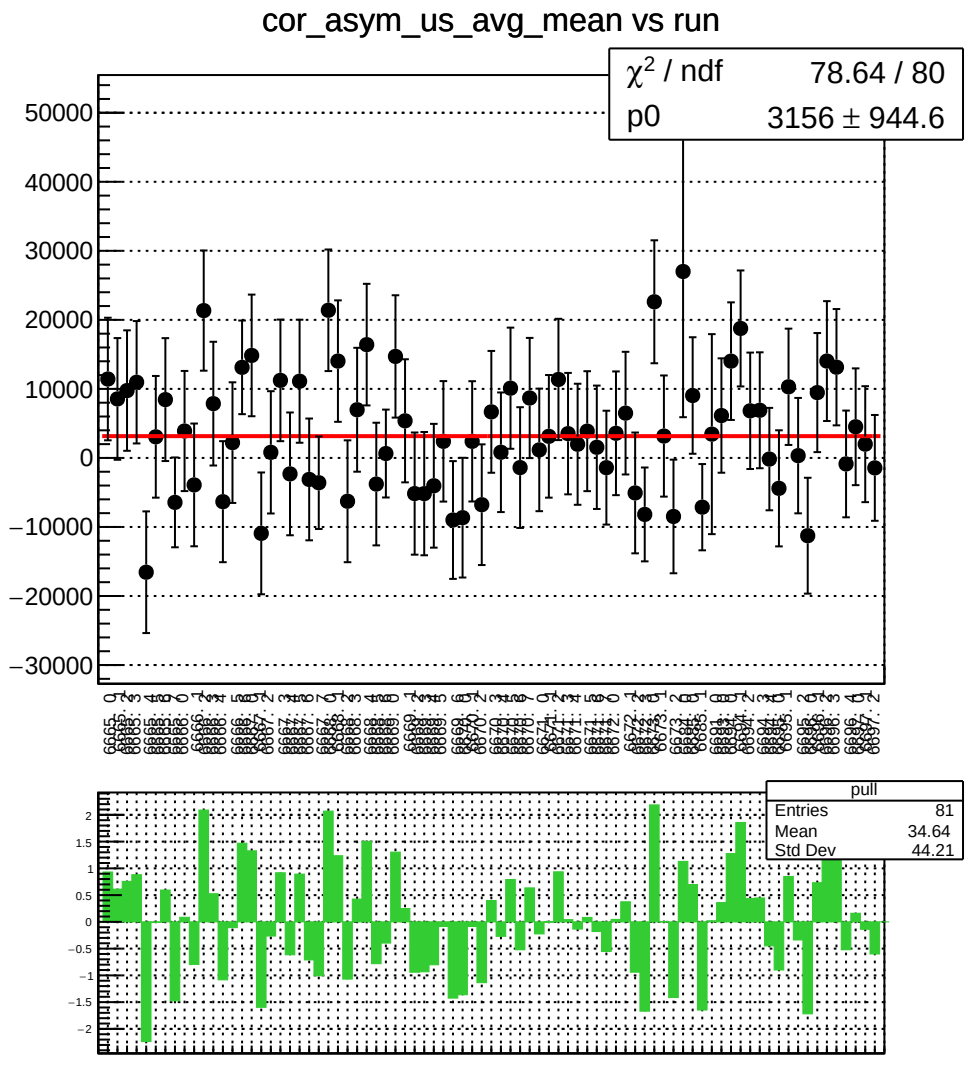

pull1D
Entries 81
Mean 0.007758
Std Dev 0.8445
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

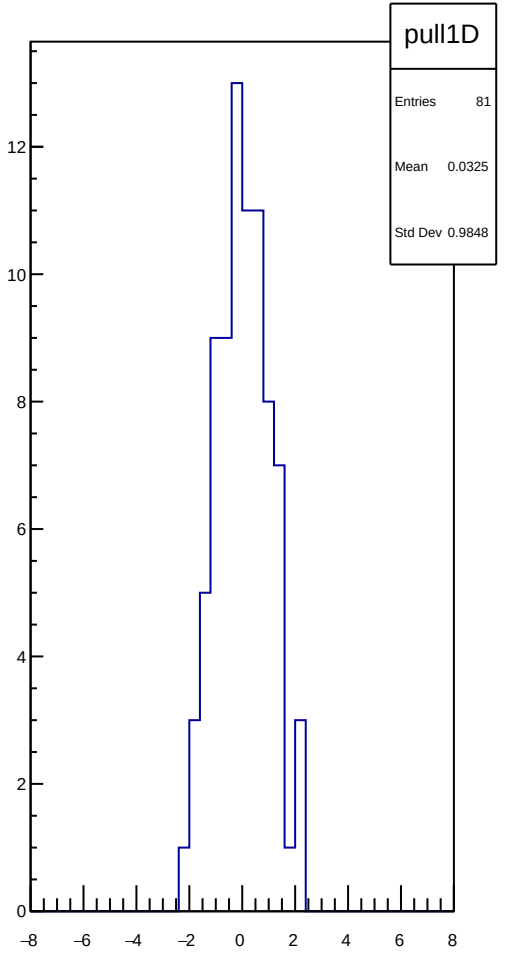

asym_right_dd_correction_rms vs run
χ² / ndf 1.229e+04 / 80
p0 827.8 ± 0.6698
1050
1000
950
900
850
800
750
700
650

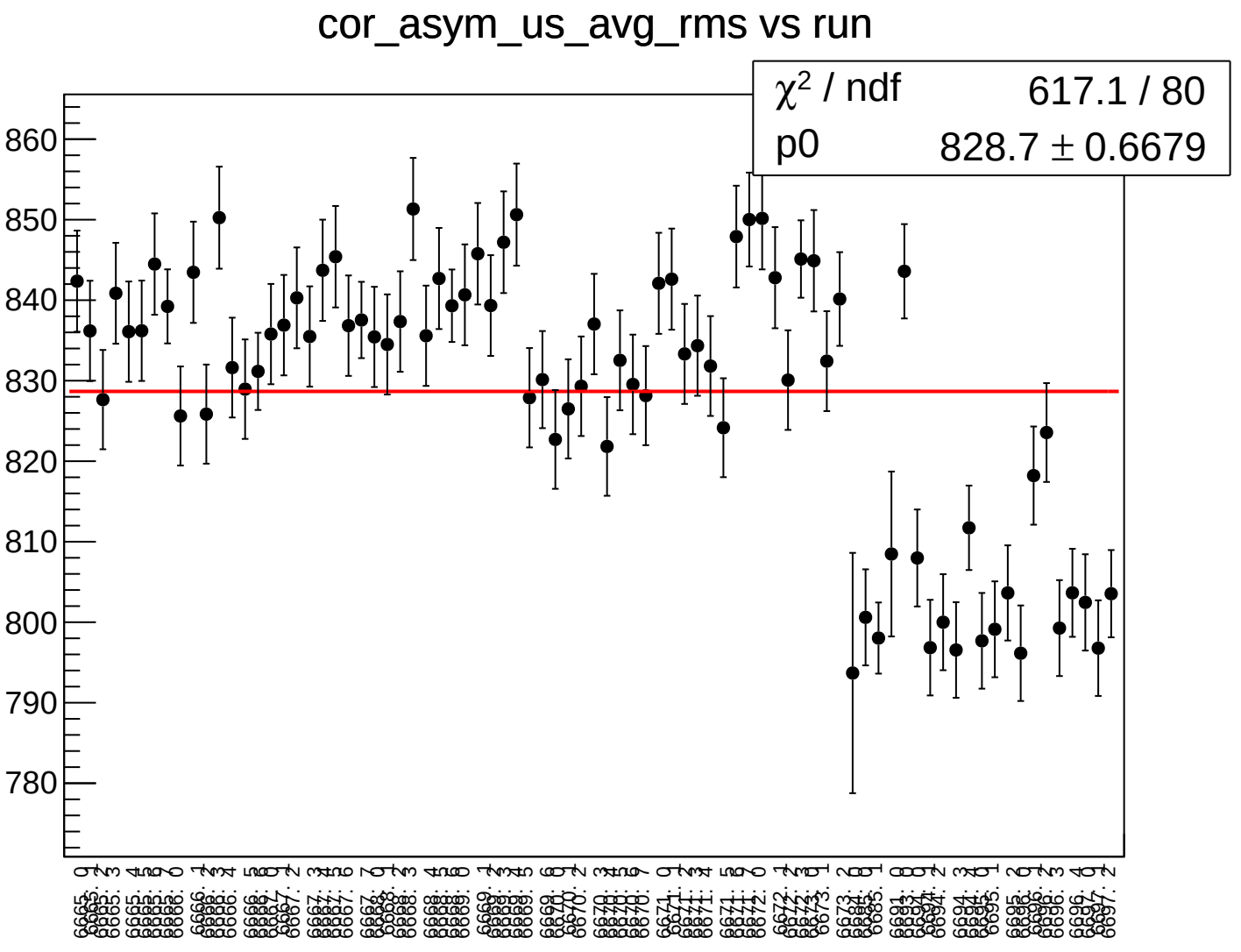

asym_right_dd_mean vs run
χ² / ndf 65.46 / 80
p0 −556.3 ± 1160
pull
Entries 81
Mean 123.5
Std Dev 57.76

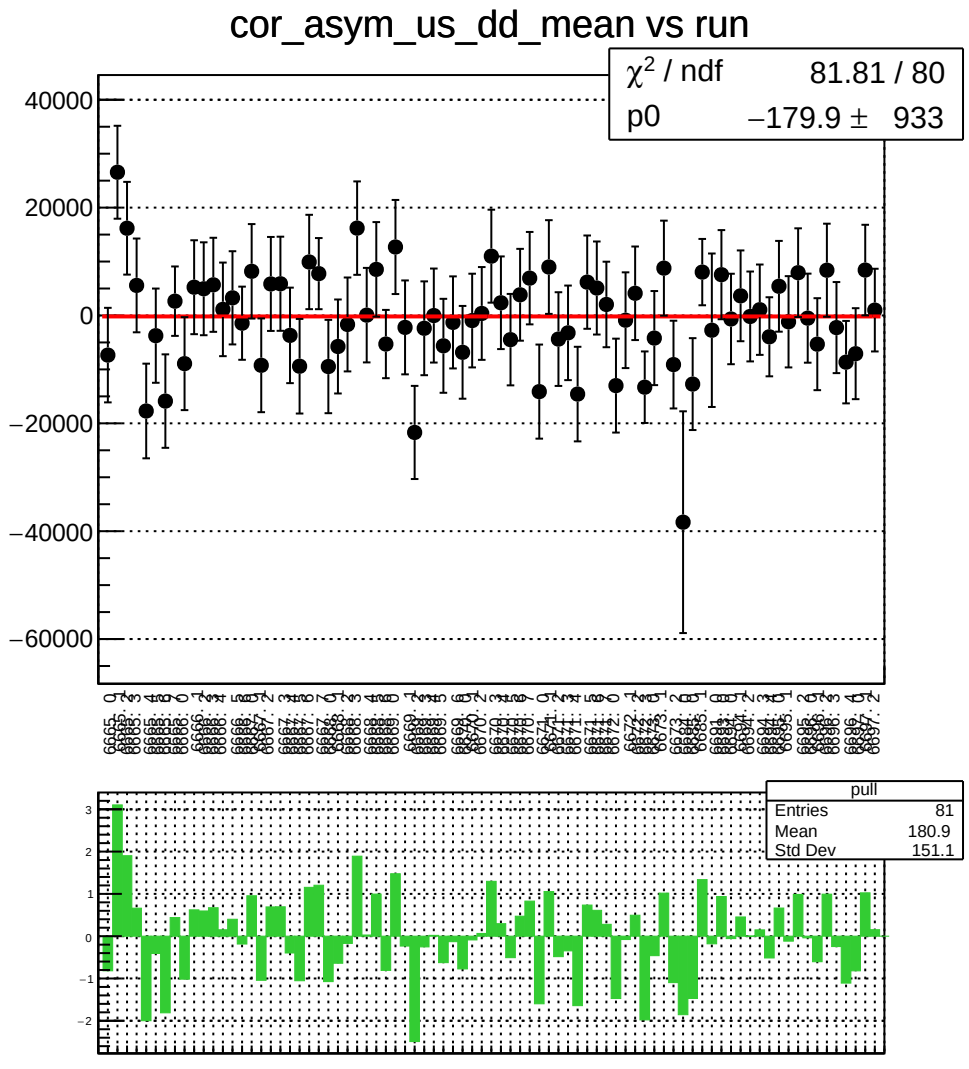

pull1D
Entries 81
Mean 0.01933
Std Dev 0.8988

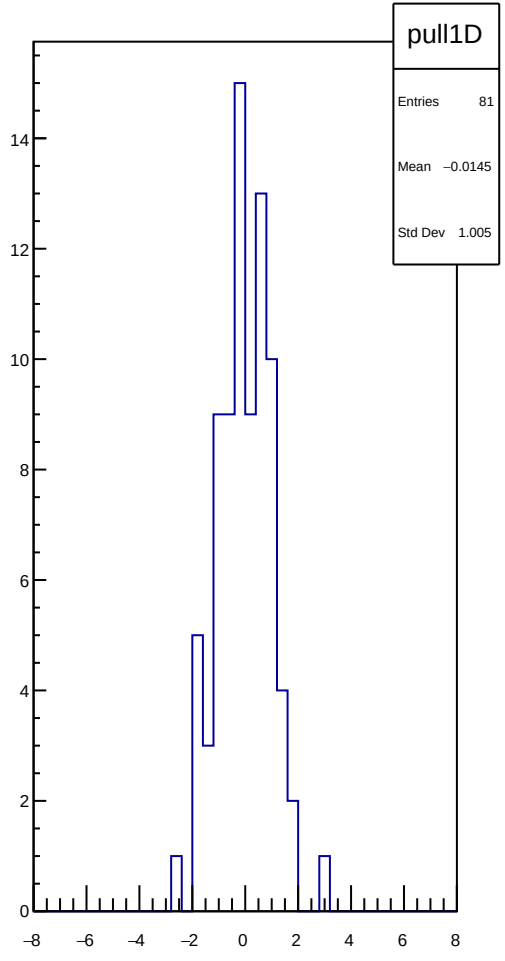

asym_right_dd_rms vs run
χ² / ndf 6008 / 80
p0 1016 ± 0.8201
1200
1150
1100
1050
1000
950
900
850

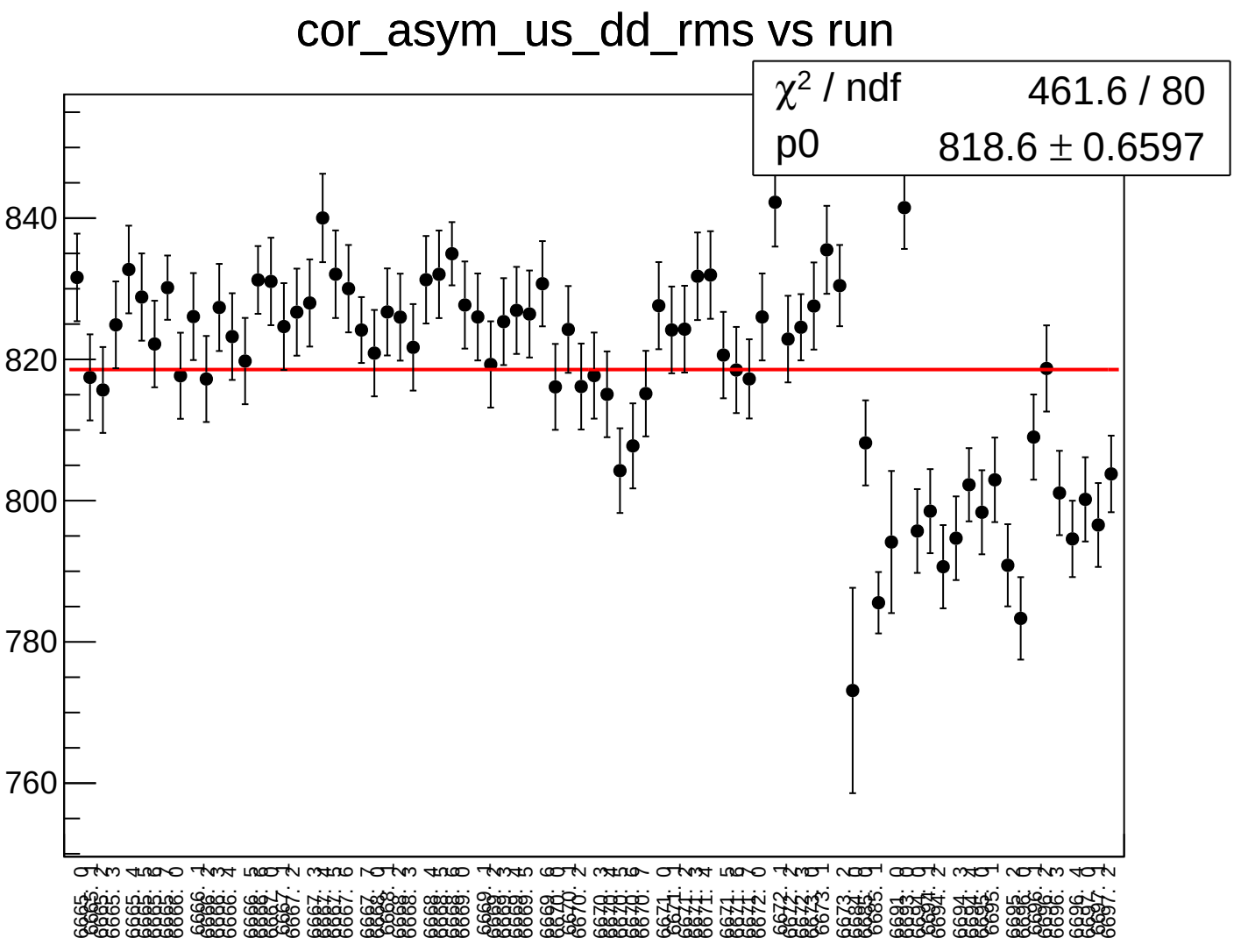

cor_asym_us_avg_mean vs run
χ² / ndf 78.64 / 80
p0 3156 ± 944.6
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 34.64
Std Dev 44.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

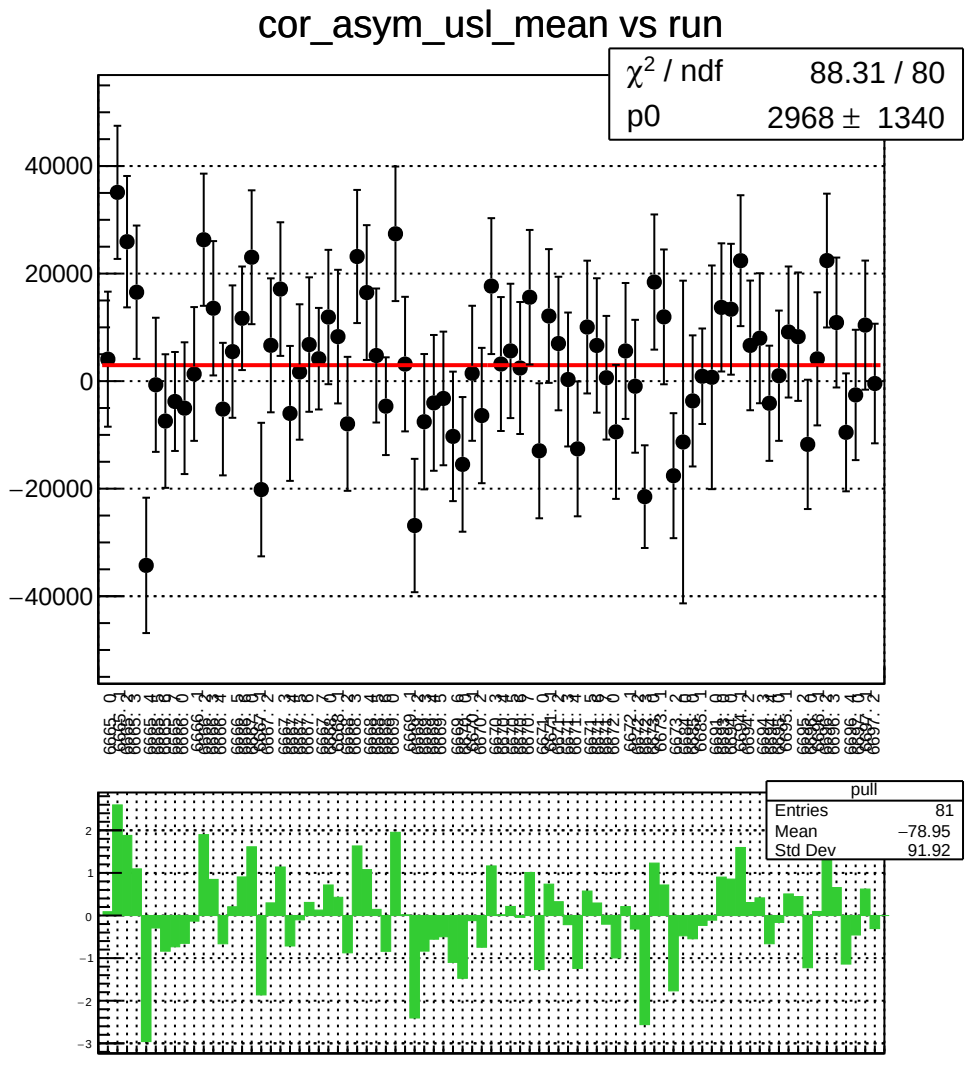

pull1D
Entries 81
Mean 0.0325
Std Dev 0.9848
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

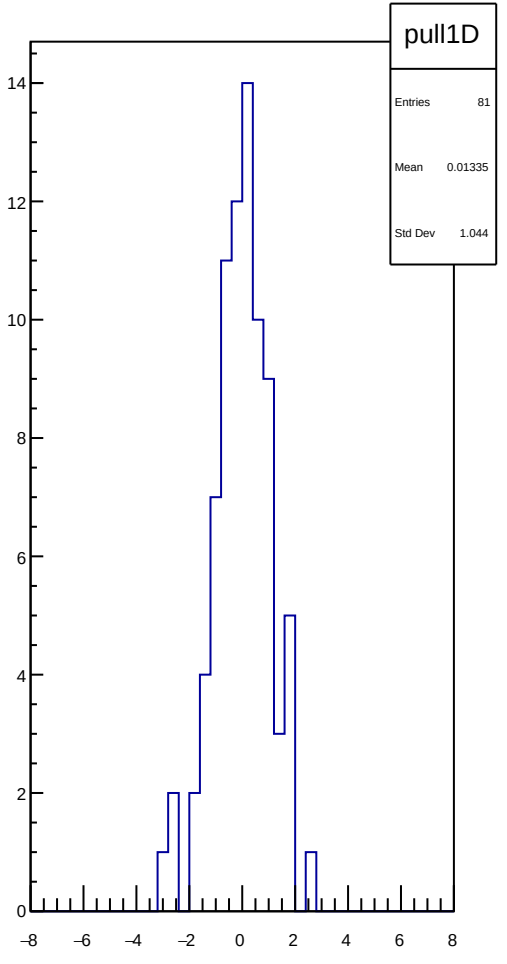

cor_asym_us_avg_rms vs run
χ² / ndf 617.1 / 80
p0 828.7 ± 0.6679
860
850
840
830
820
810
800
790
780

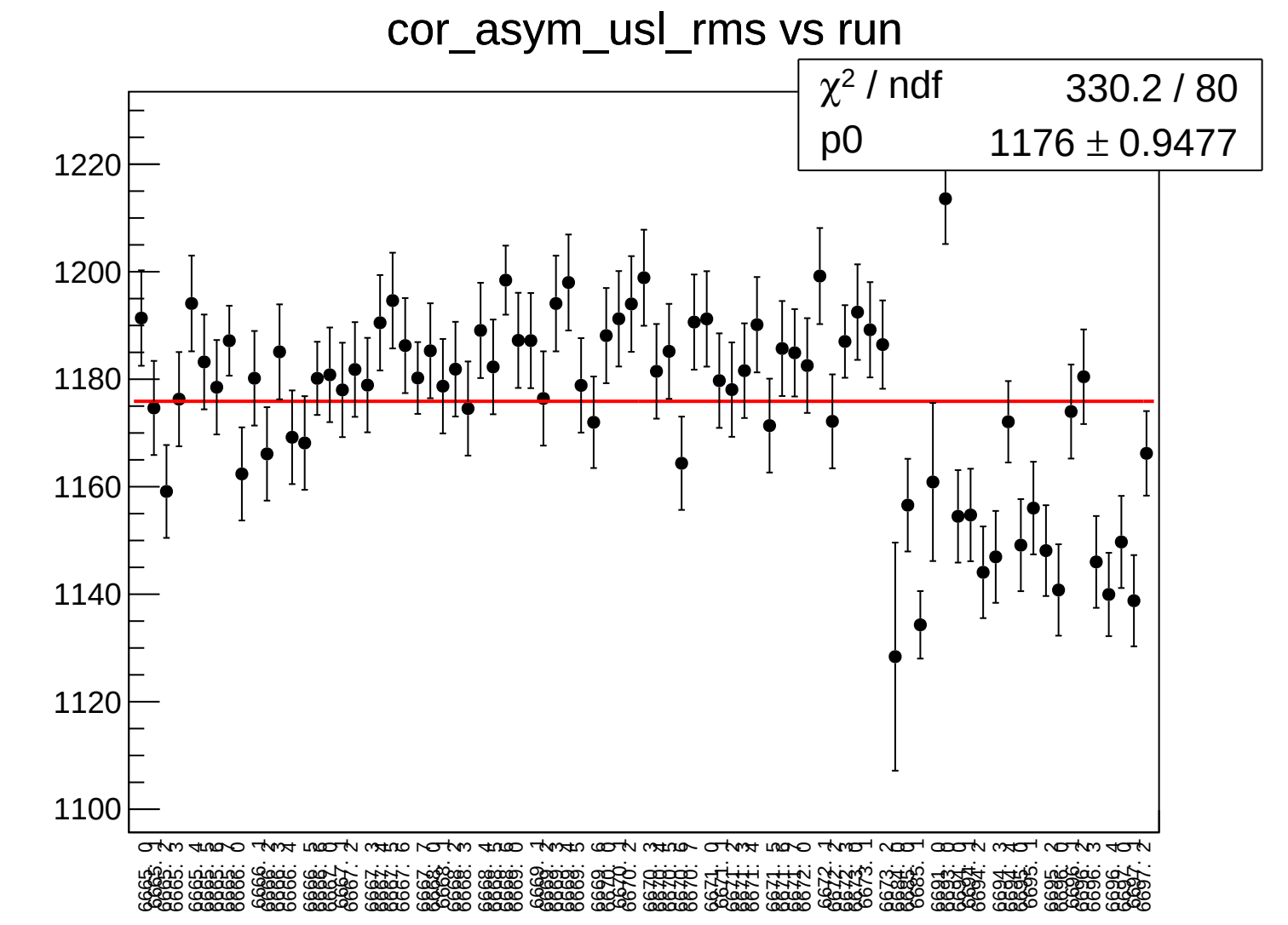

cor_asym_us_dd_mean vs run
χ² / ndf 81.81 / 80
p0 −179.9 ± 933
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 180.9
Std Dev 151.1
3
2
1
0
−1
−2

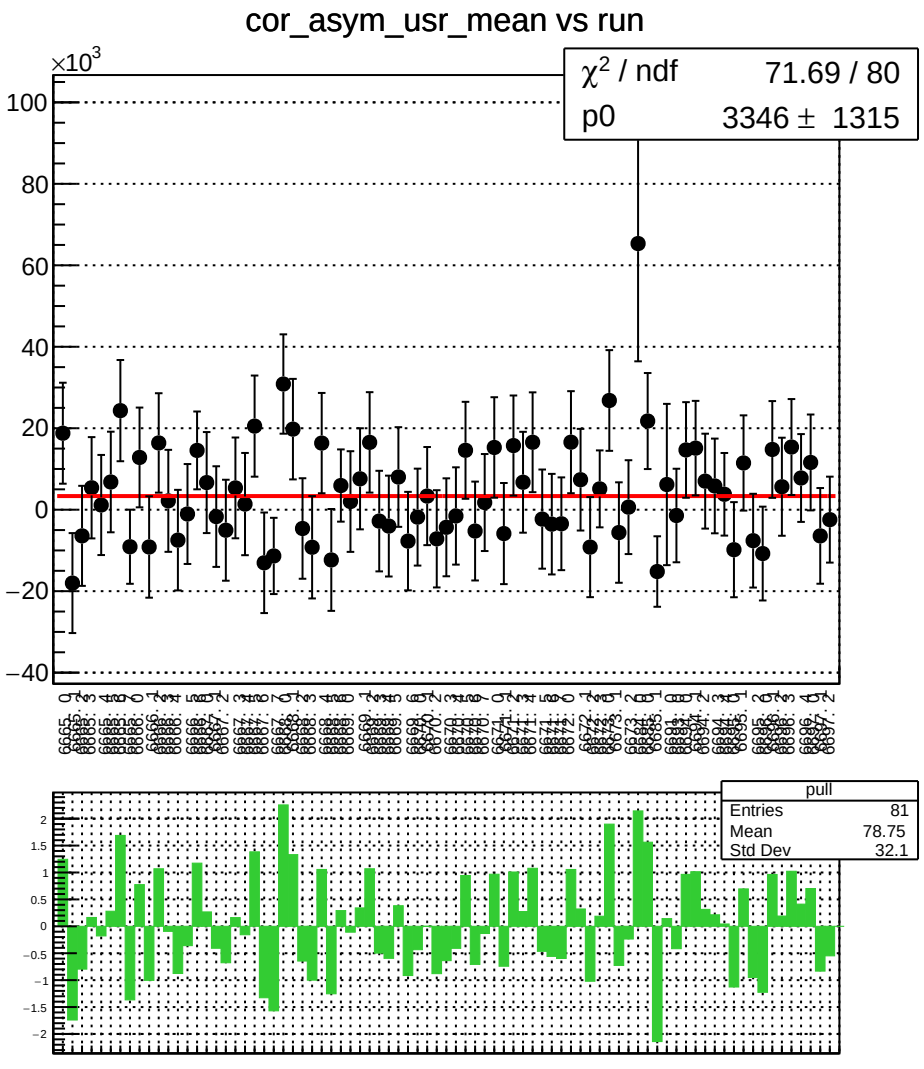

pull1D
Entries 81
Mean −0.0145
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

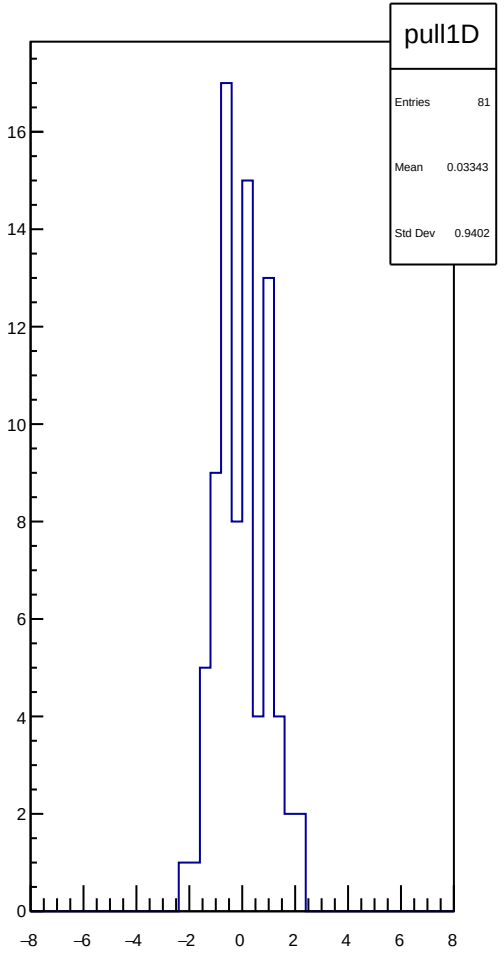

cor_asym_us_dd_rms vs run
χ² / ndf 461.6 / 80
p0 818.6 ± 0.6597
840
820
800
780
760

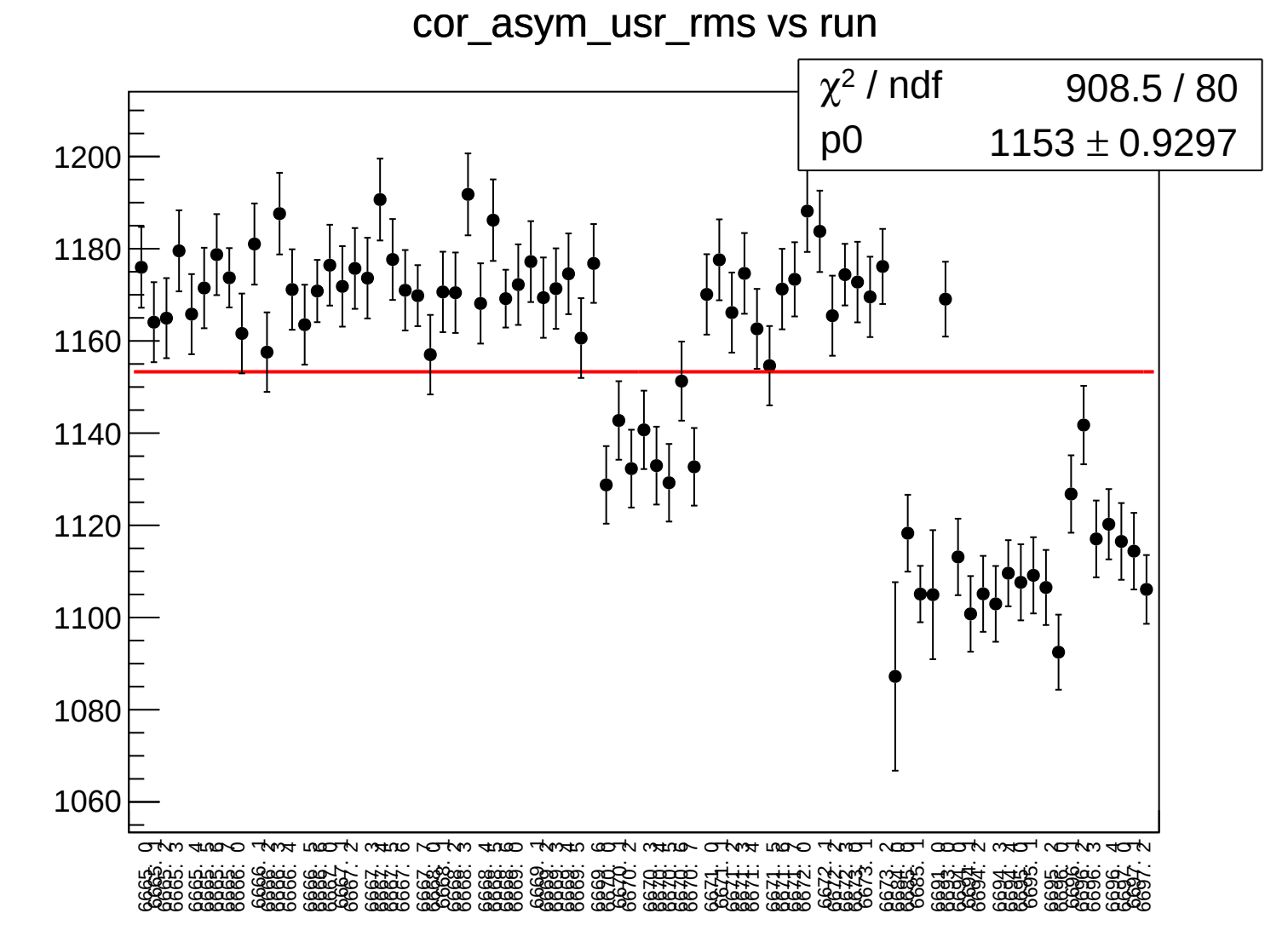

cor_asym_usl_mean vs run
χ² / ndf 88.31 / 80
p0 2968 ± 1340
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −78.95
Std Dev 91.92
2
1
0
−1
−2
−3

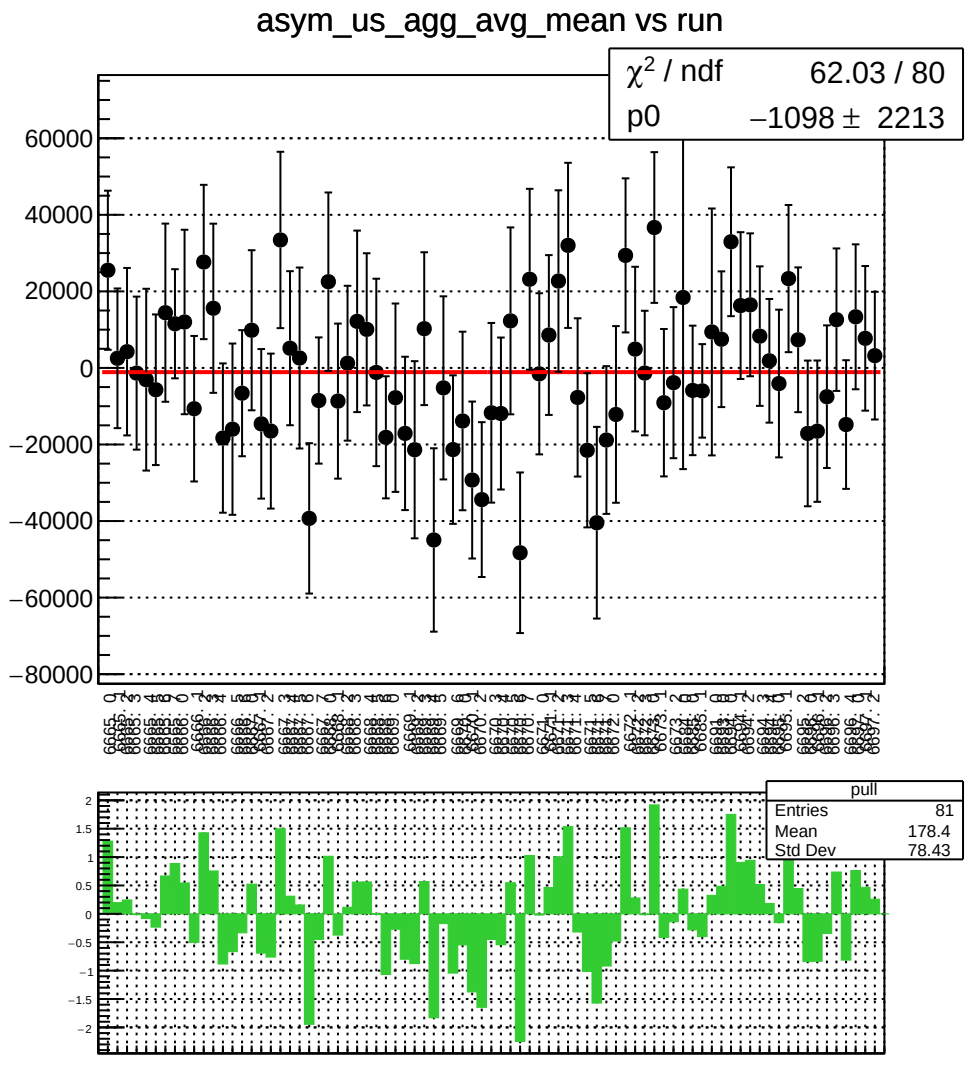

pull1D
Entries 81
Mean 0.01335
Std Dev 1.044
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

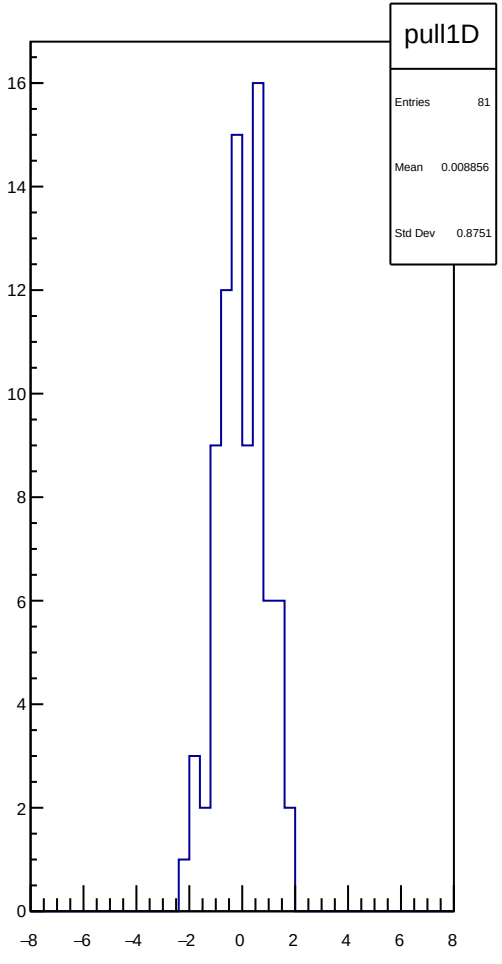

cor_asym_usl_rms vs run
χ² / ndf 330.2 / 80
p0 1176 ± 0.9477
1220
1200
1180
1160
1140
1120
1100

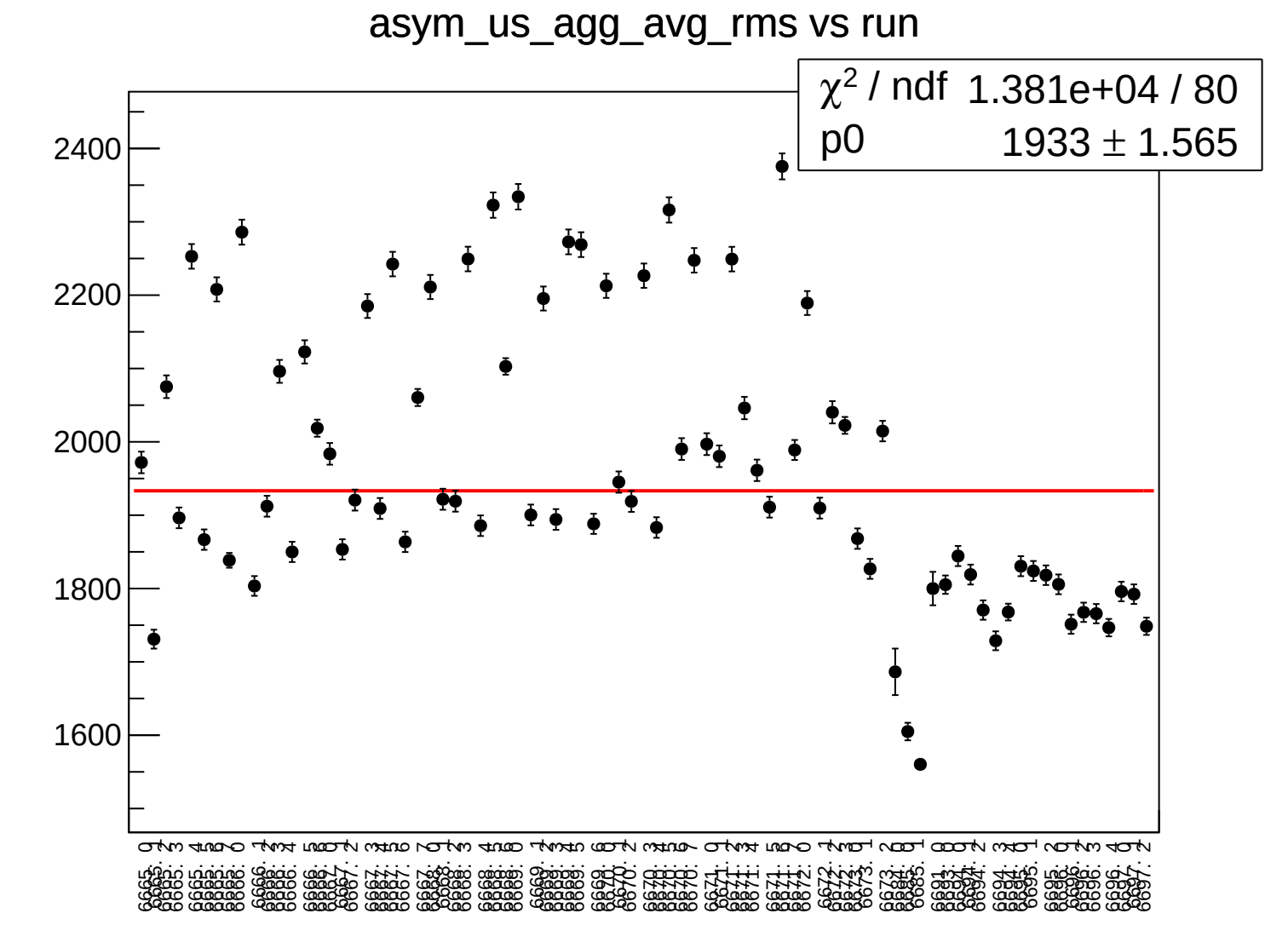

cor_asym_usr_mean vs run
×10^3
χ² / ndf 71.69 / 80
p0 3346 ± 1315
pull
Entries 81
Mean 78.75
Std Dev 32.1

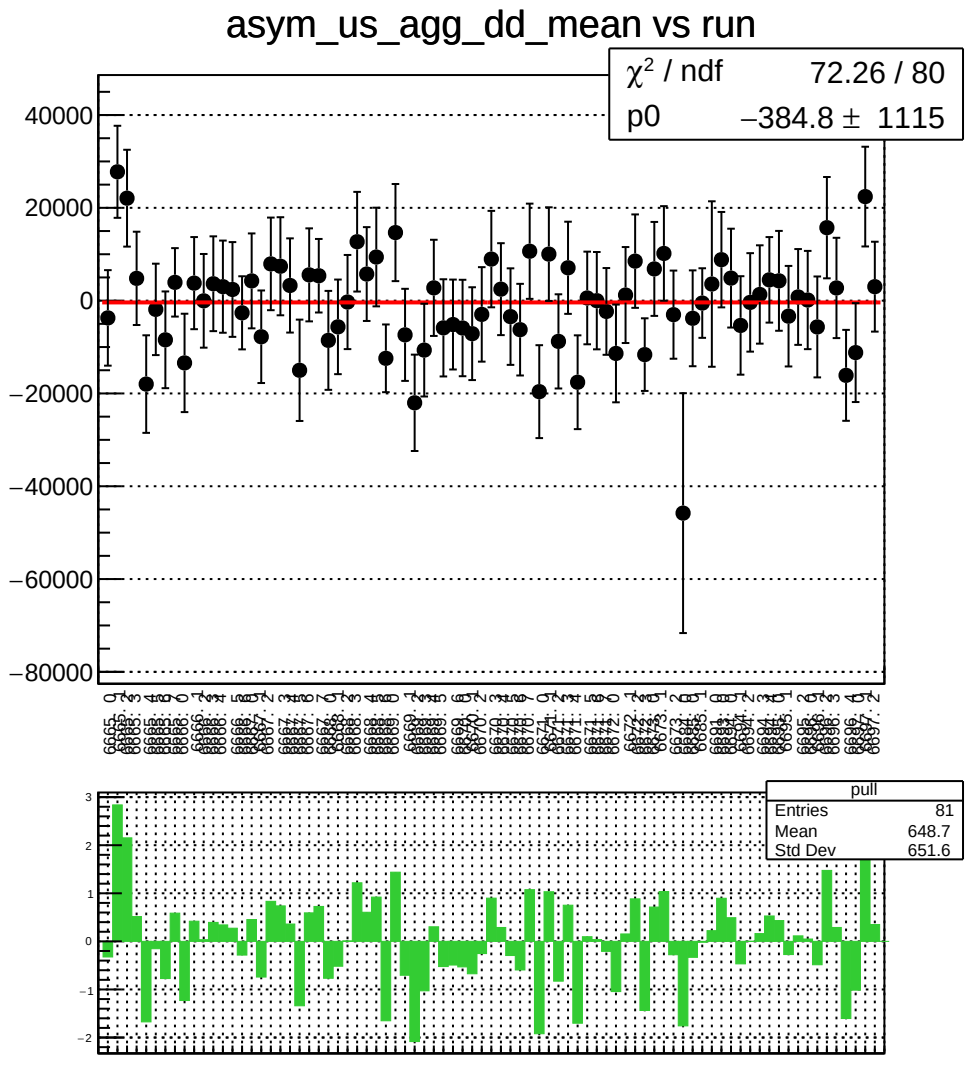

pull1D
Entries 81
Mean 0.03343
Std Dev 0.9402

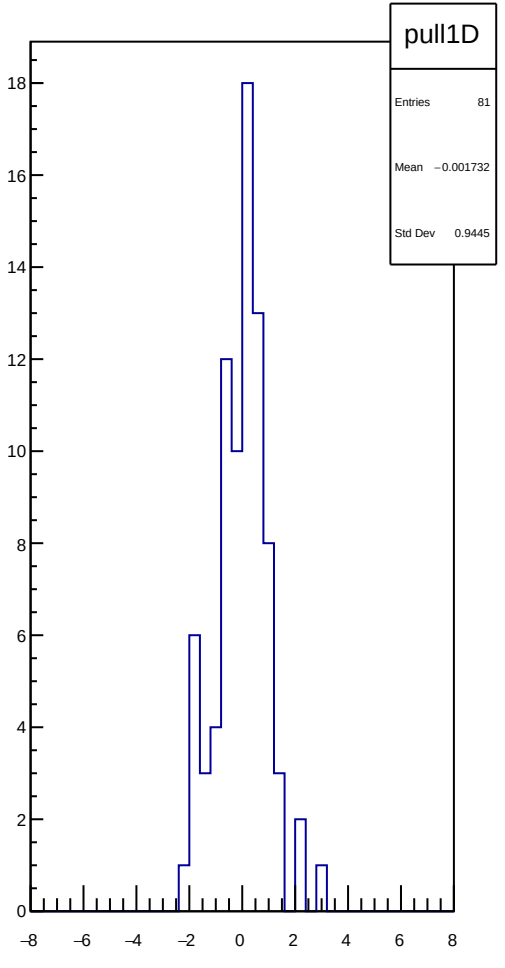

cor_asym_usr_rms vs run
χ² / ndf 908.5 / 80
p0 1153 ± 0.9297
1200
1180
1160
1140
1120
1100
1080
1060

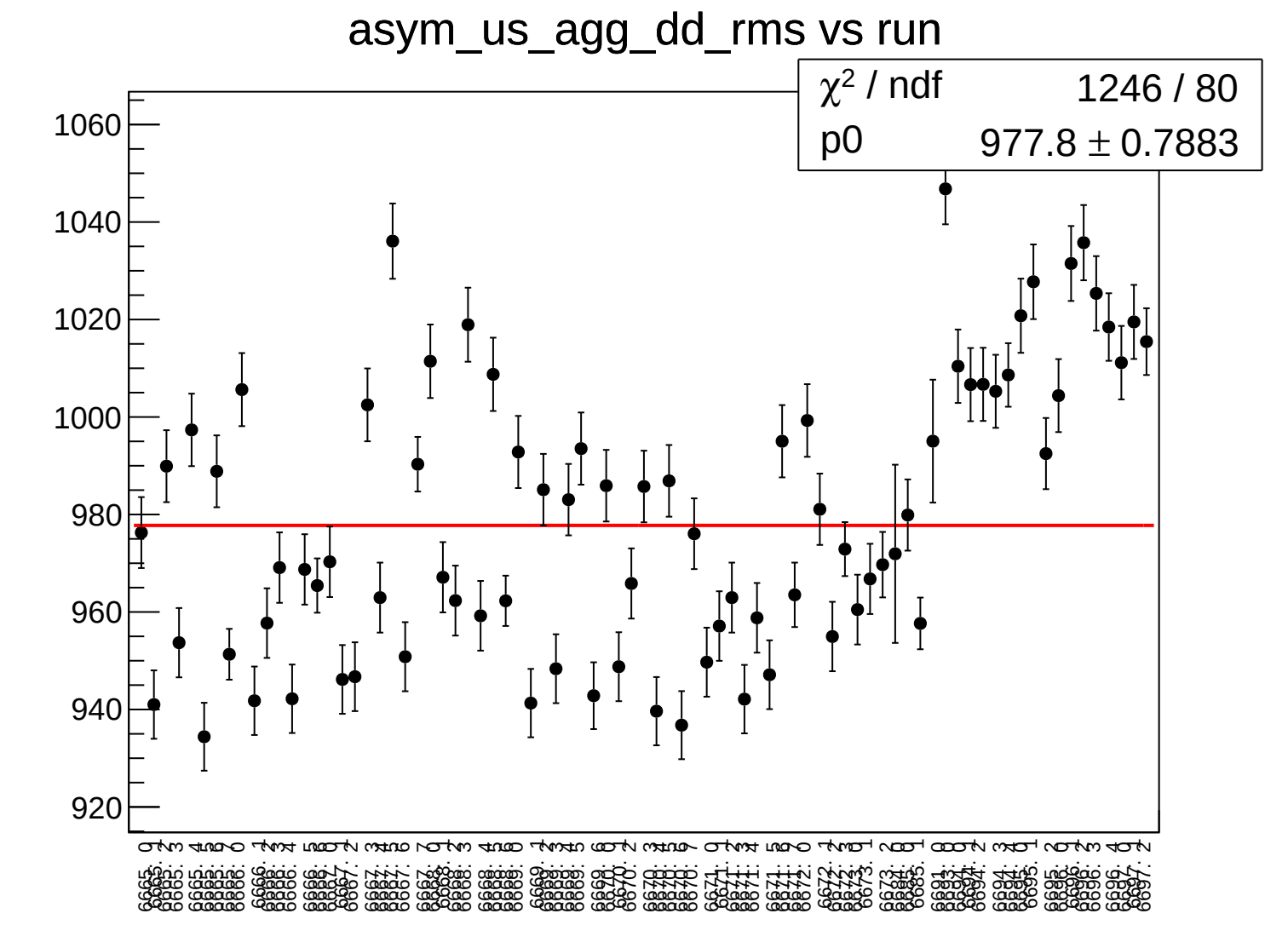

asym_us_agg_avg_mean vs run
χ² / ndf 62.03 / 80
p0 −1098 ± 2213
pull
Entries 81
Mean 178.4
Std Dev 78.43

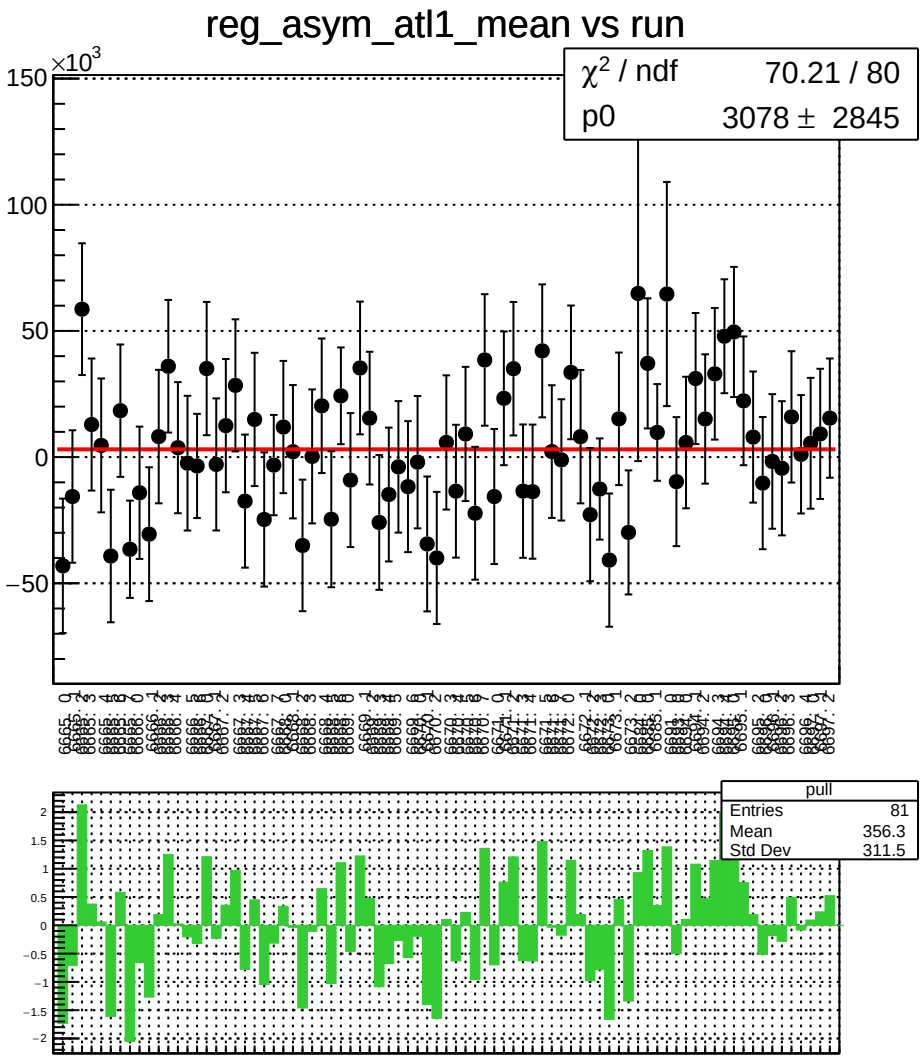

pull1D
Entries 81
Mean 0.008856
Std Dev 0.8751

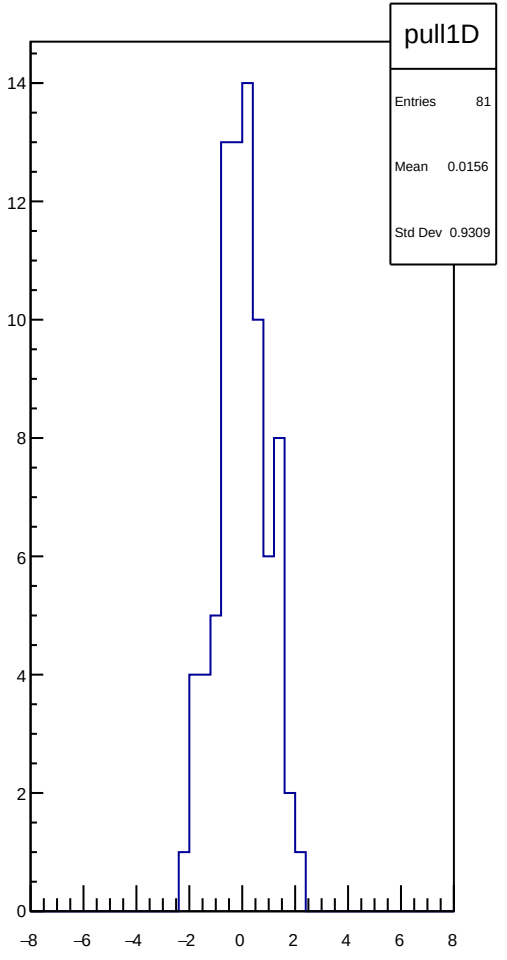

asym_us_agg_avg_rms vs run
χ² / ndf 1.381e+04 / 80
p0 1933 ± 1.565
2400
2200
2000
1800
1600

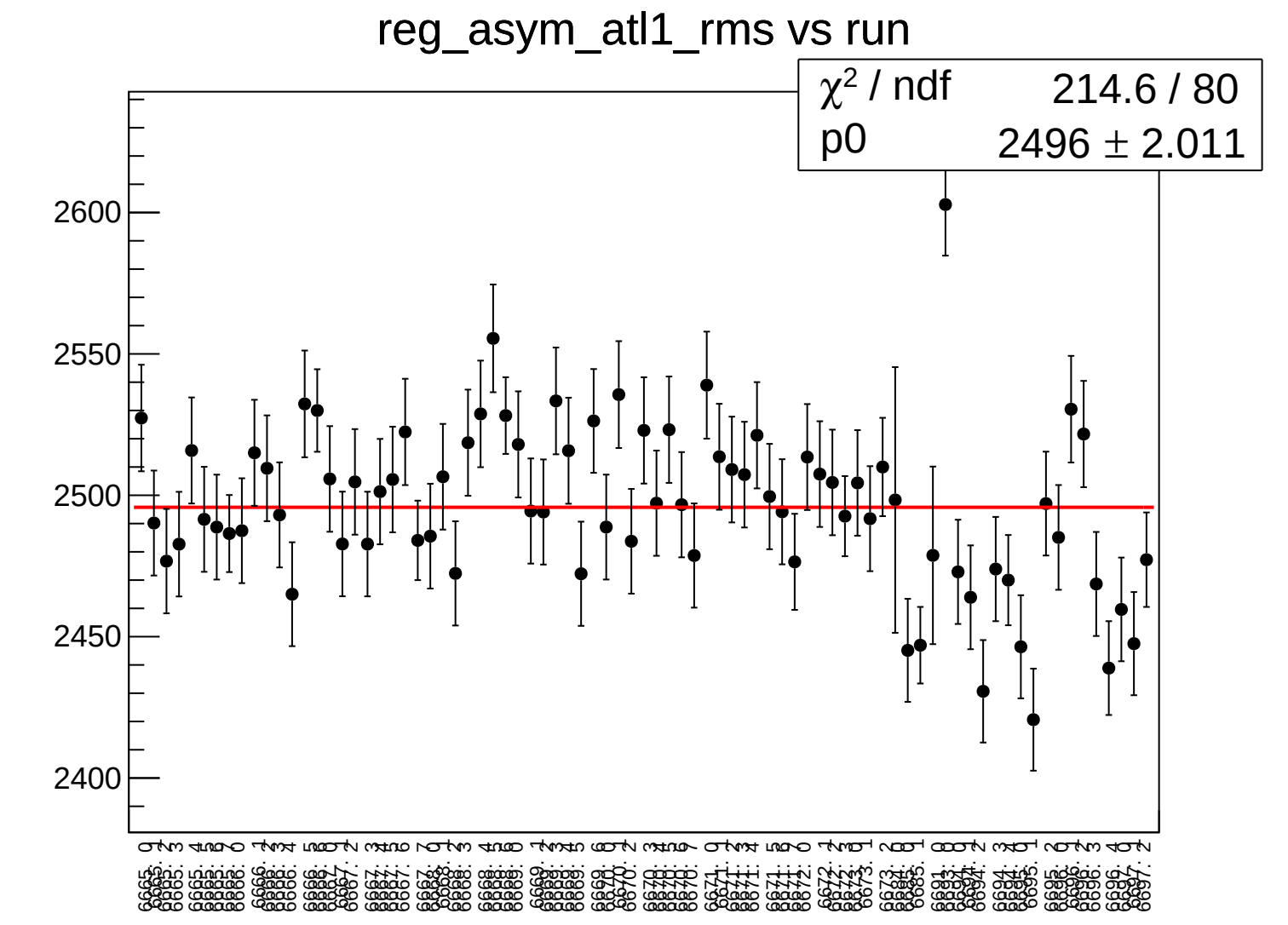

asym_us_agg_dd_mean vs run
χ² / ndf 72.26 / 80
p0 −384.8 ± 1115
pull
Entries 81
Mean 648.7
Std Dev 651.6

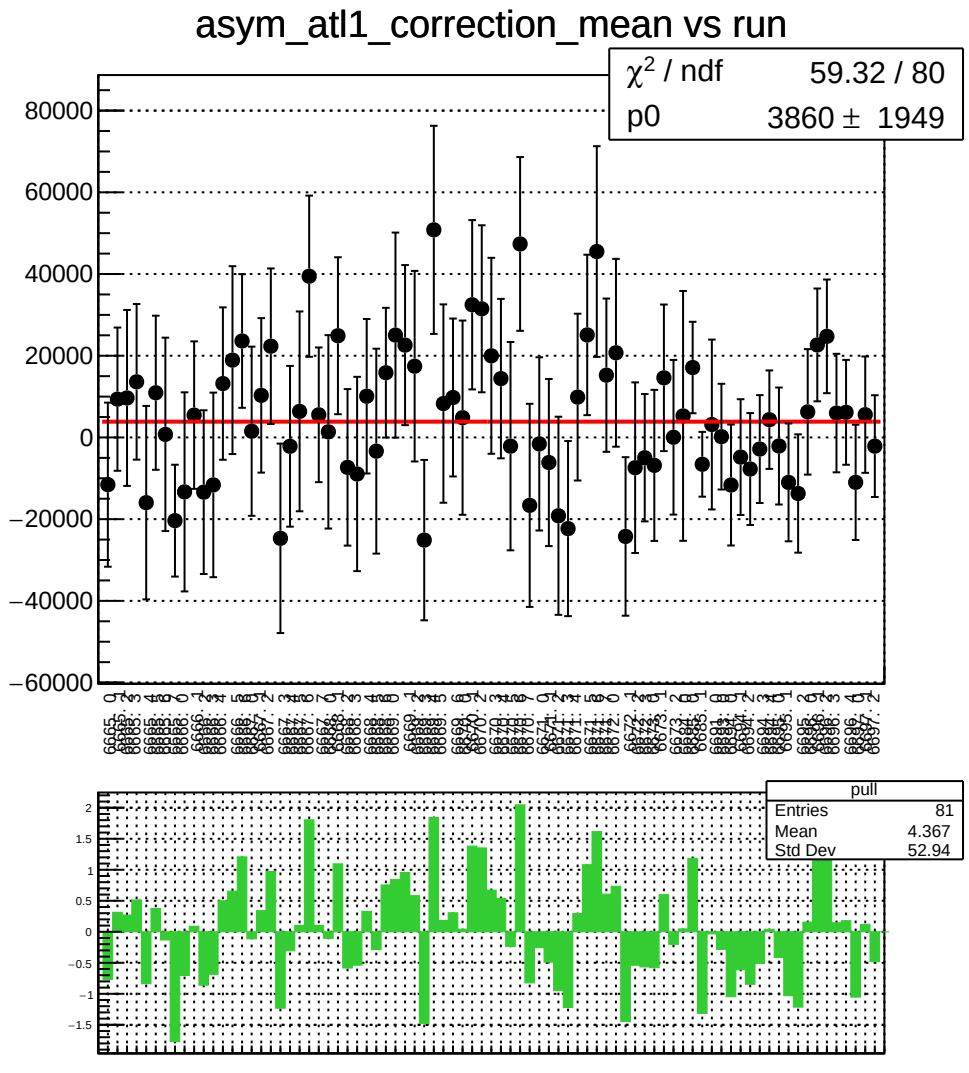

pull1D
Entries 81
Mean −0.001732
Std Dev 0.9445

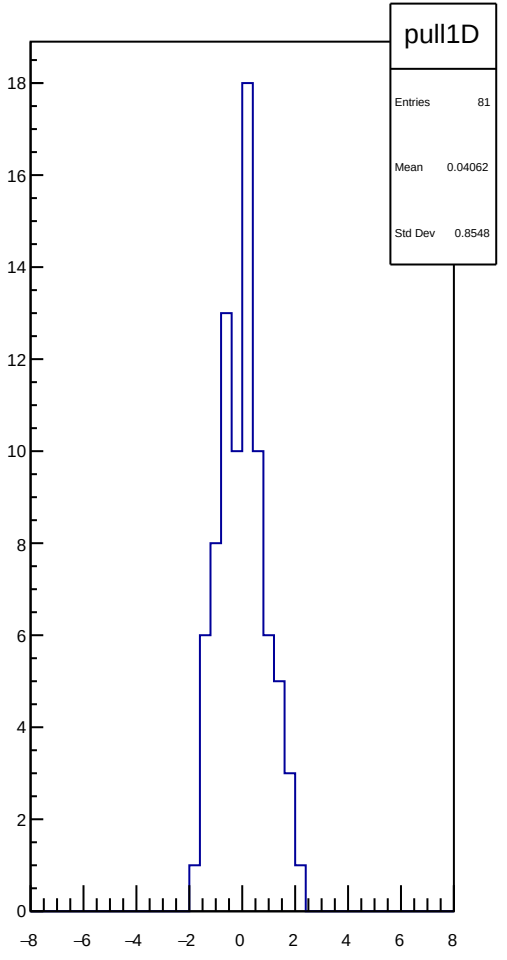

asym_us_agg_dd_rms vs run
χ² / ndf 1246 / 80
p0 977.8 ± 0.7883
1060
1040
1020
1000
980
960
940
920

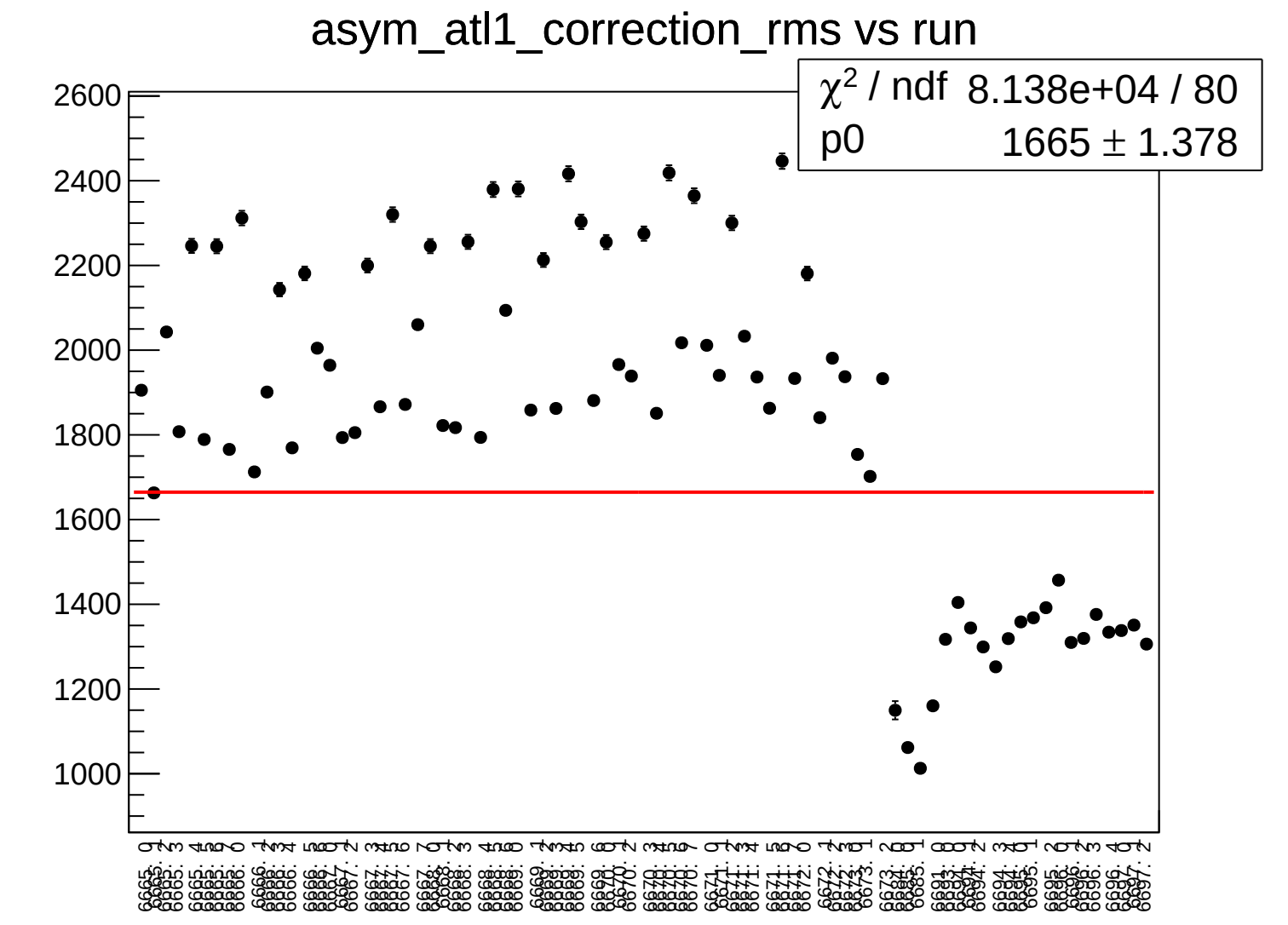

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 70.21 / 80
p0 3078 ± 2845
150
100
50
0
−50
pull
Entries 81
Mean 356.3
Std Dev 311.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

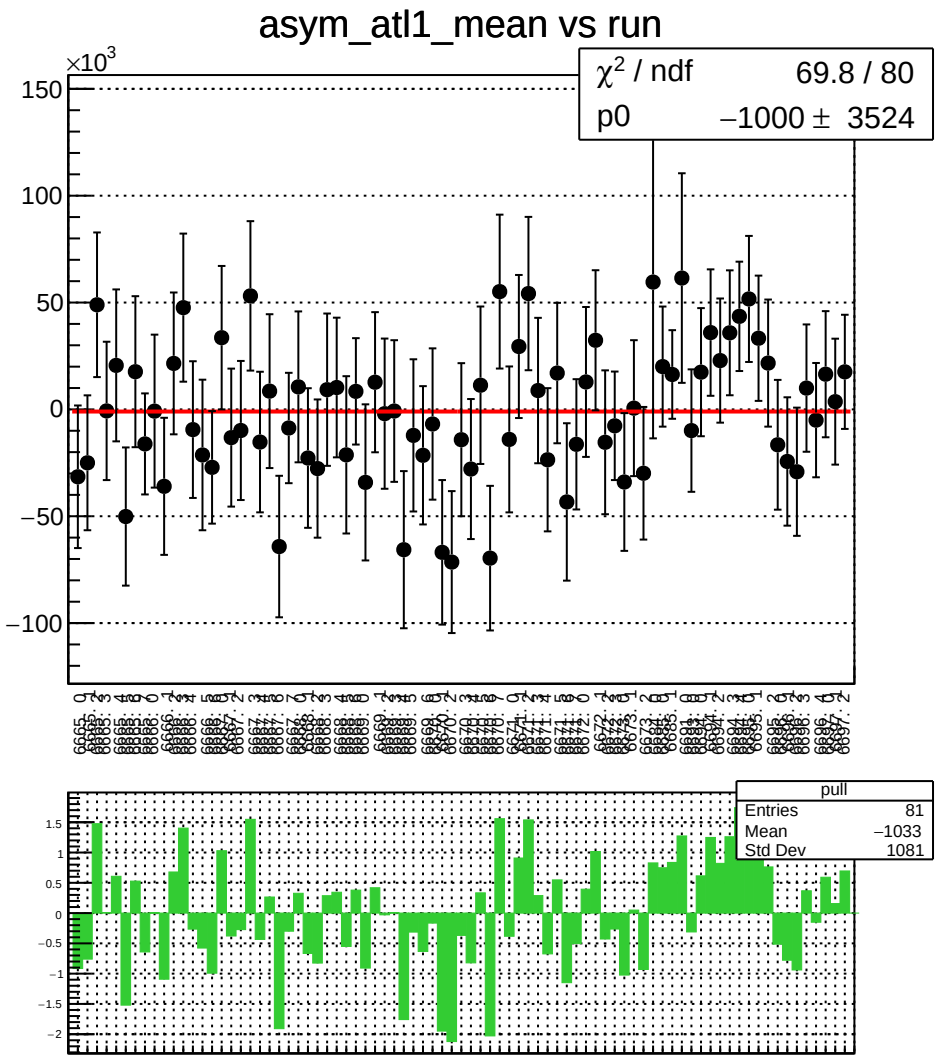

pull1D
Entries 81
Mean 0.0156
Std Dev 0.9309
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

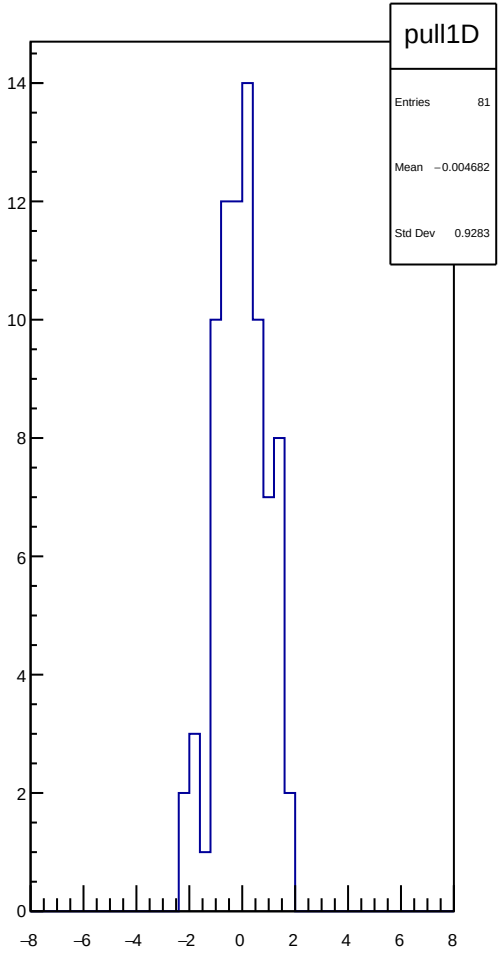

reg_asym_atl1_rms vs run
χ² / ndf 214.6 / 80
p0 2496 ± 2.011
2600
2550
2500
2450
2400

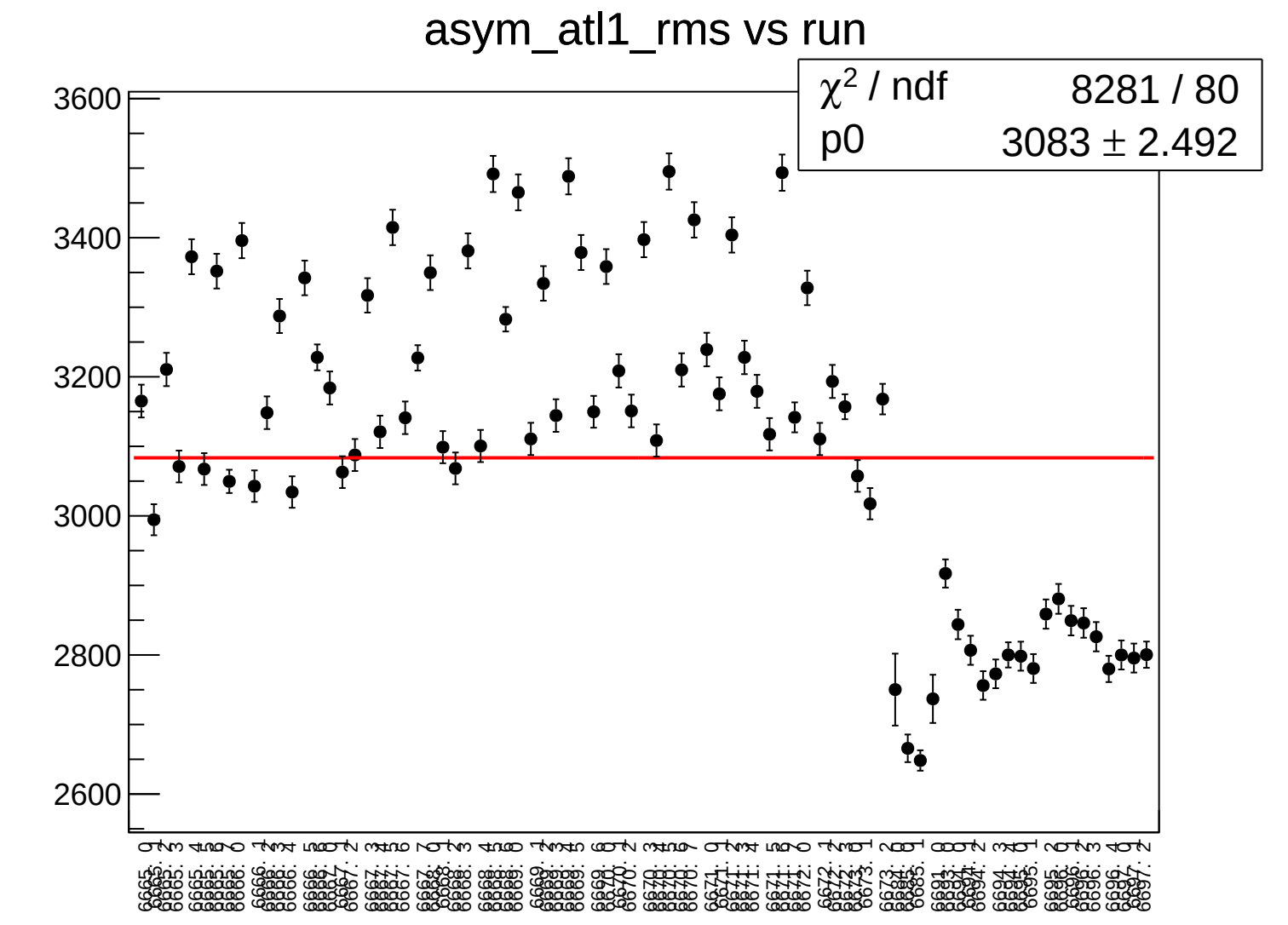

asym_atl1_correction_mean vs run
χ² / ndf 59.32 / 80
p0 3860 ± 1949
pull
Entries 81
Mean 4.367
Std Dev 52.94

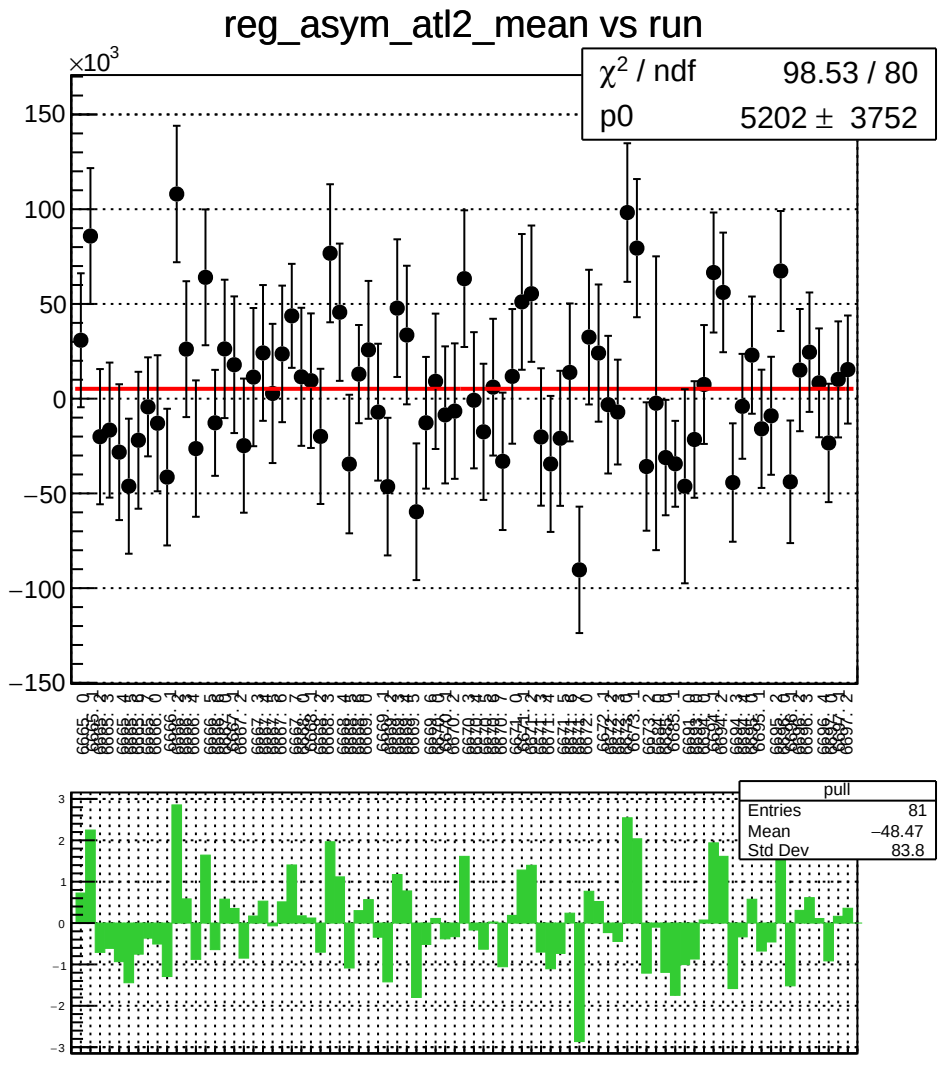

pull1D
Entries 81
Mean 0.04062
Std Dev 0.8548

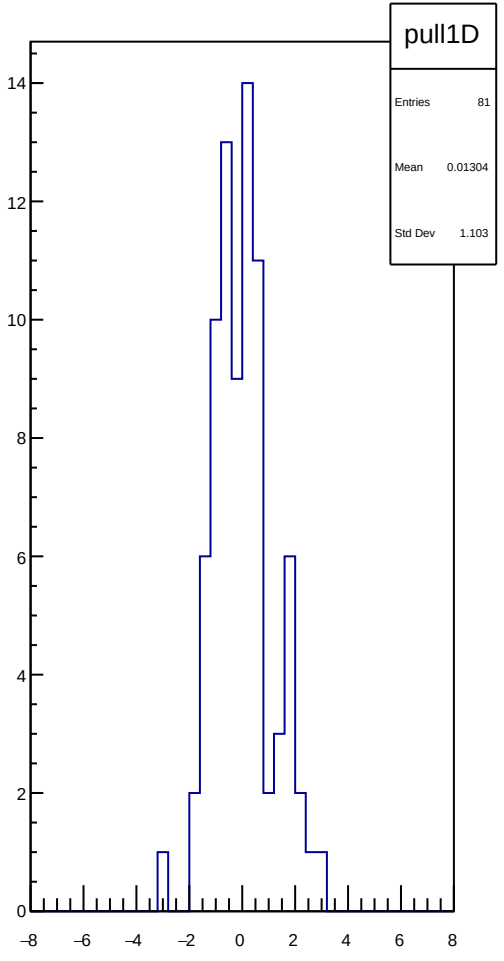

asym_atl1_correction_rms vs run
χ² / ndf 8.138e+04 / 80
p0 1665 ± 1.378
2600
2400
2200
2000
1800
1600
1400
1200
1000

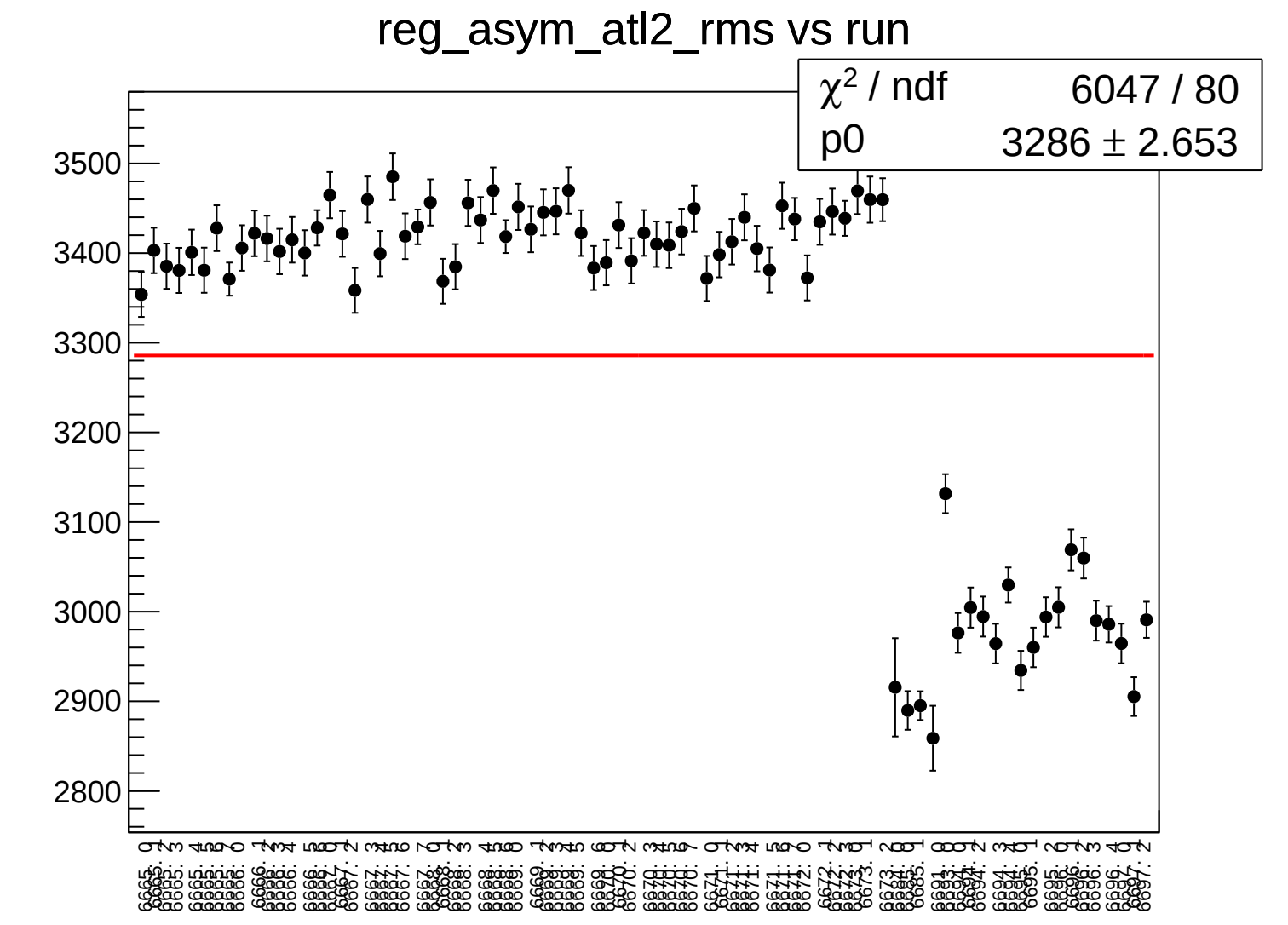

asym_atl1_mean vs run
×10^3
χ^2 / ndf 69.8 / 80
p0 −1000 ± 3524
150
100
50
0
−50
−100
pull
Entries 81
Mean −1033
Std Dev 1081
1.5
1
0.5
0
−0.5
−1
−1.5
−2

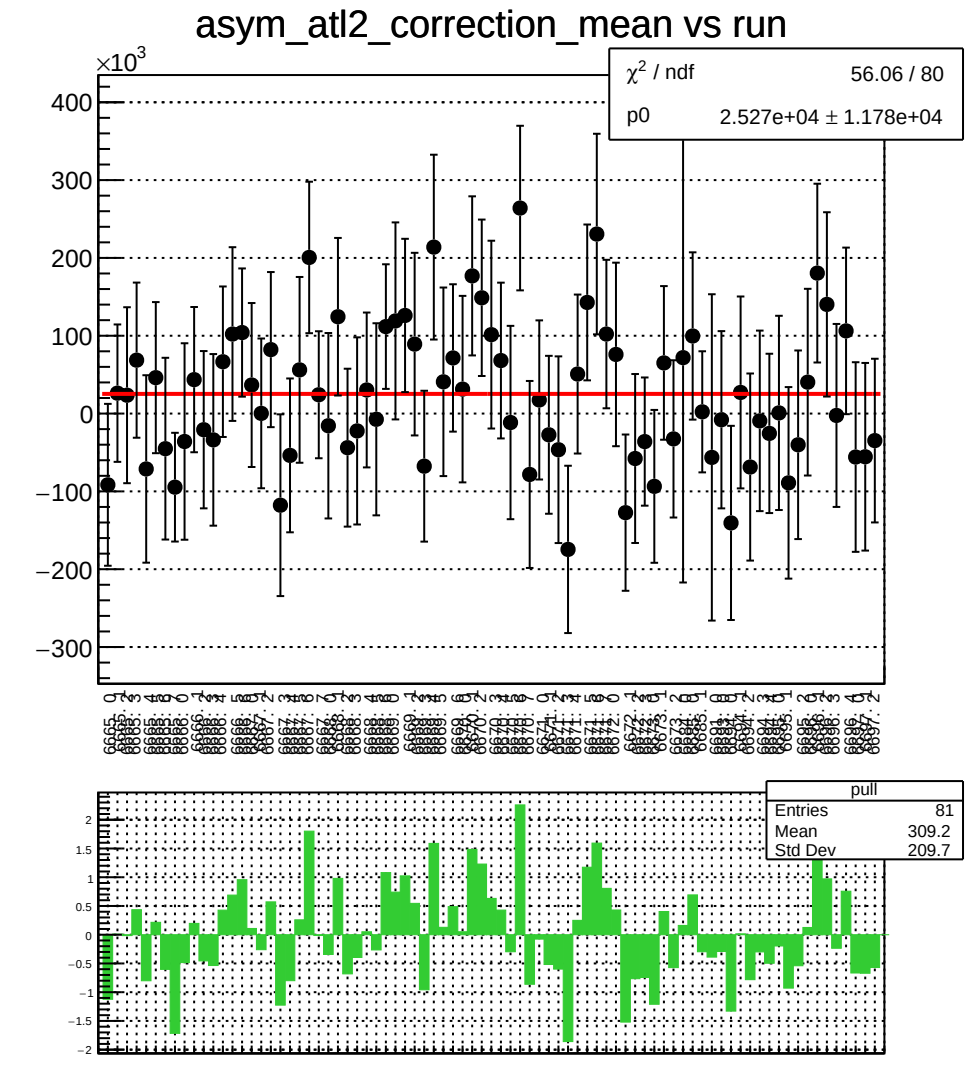

pull1D
Entries 81
Mean −0.004682
Std Dev 0.9283
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

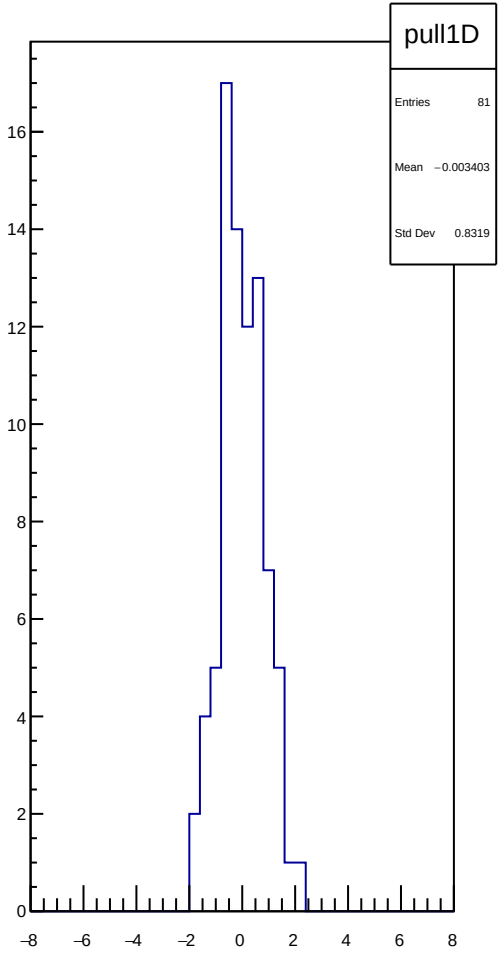

asym_atl1_rms vs run
χ² / ndf 8281 / 80
p0 3083 ± 2.492
3600
3400
3200
3000
2800
2600

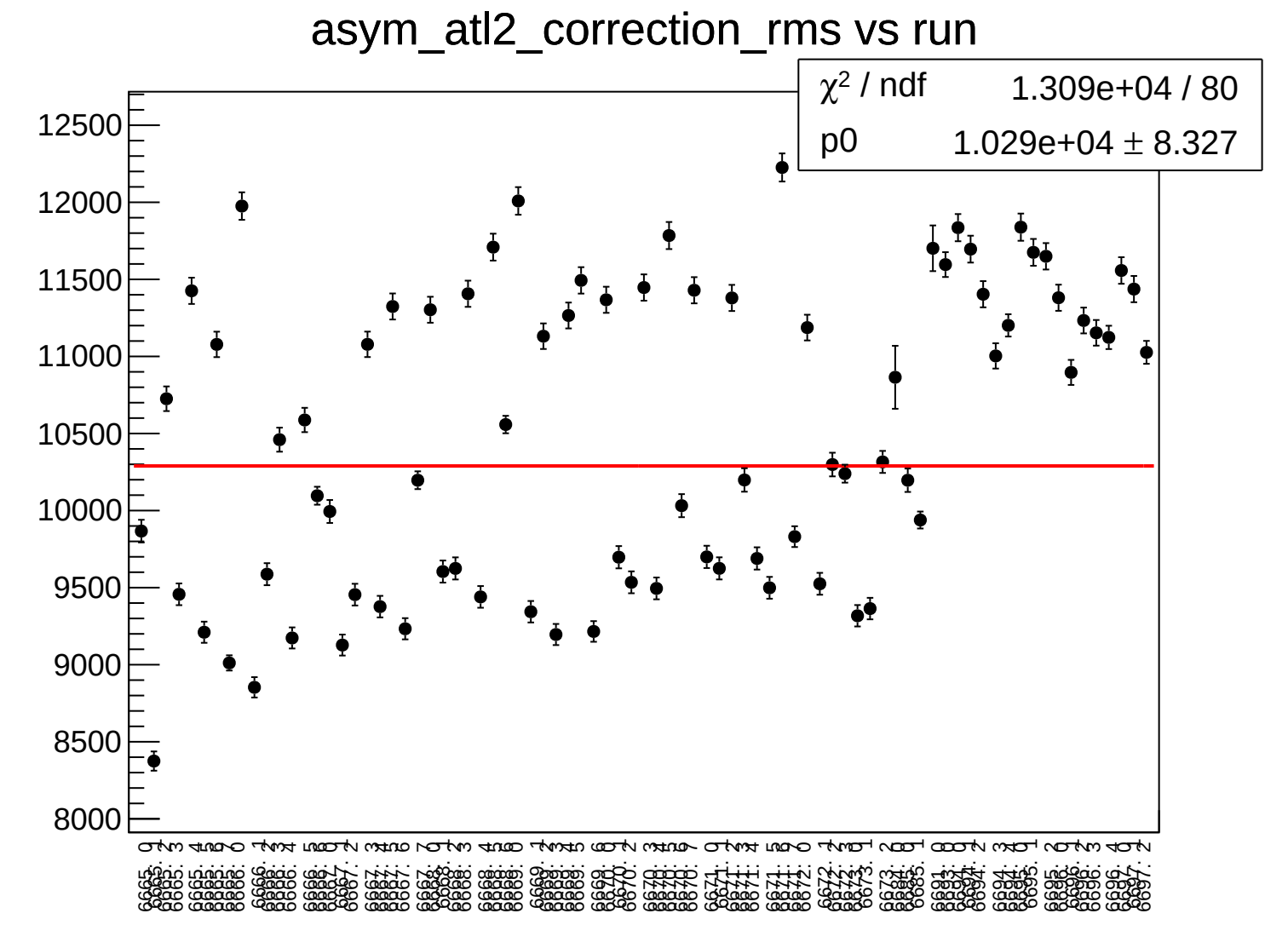

reg_asym_atl2_mean vs run
×10^3
χ^2 / ndf 98.53 / 80
p0 5202 ± 3752
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean −48.47
Std Dev 83.8
3
2
1
0
−1
−2
−3

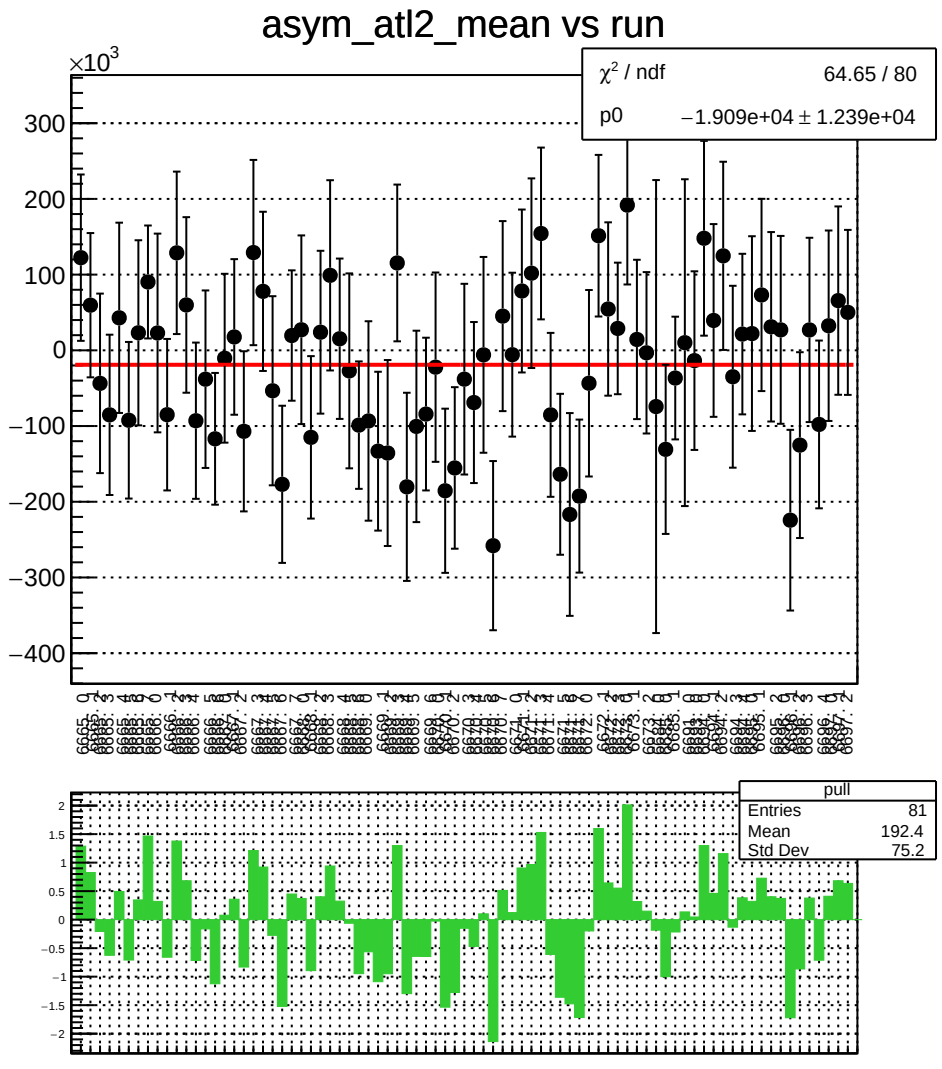

pull1D
Entries 81
Mean 0.01304
Std Dev 1.103
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

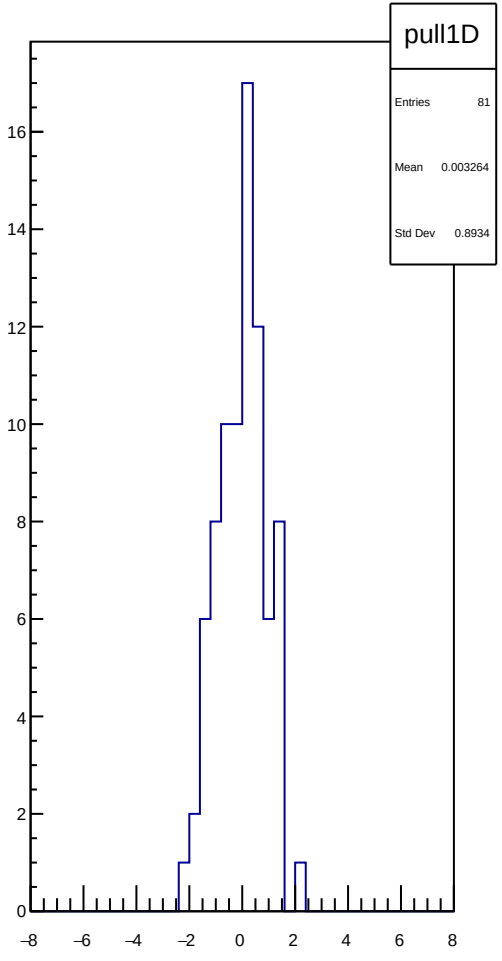

reg_asym_atl2_rms vs run
χ² / ndf 6047 / 80
p0 3286 ± 2.653
3500
3400
3300
3200
3100
3000
2900
2800

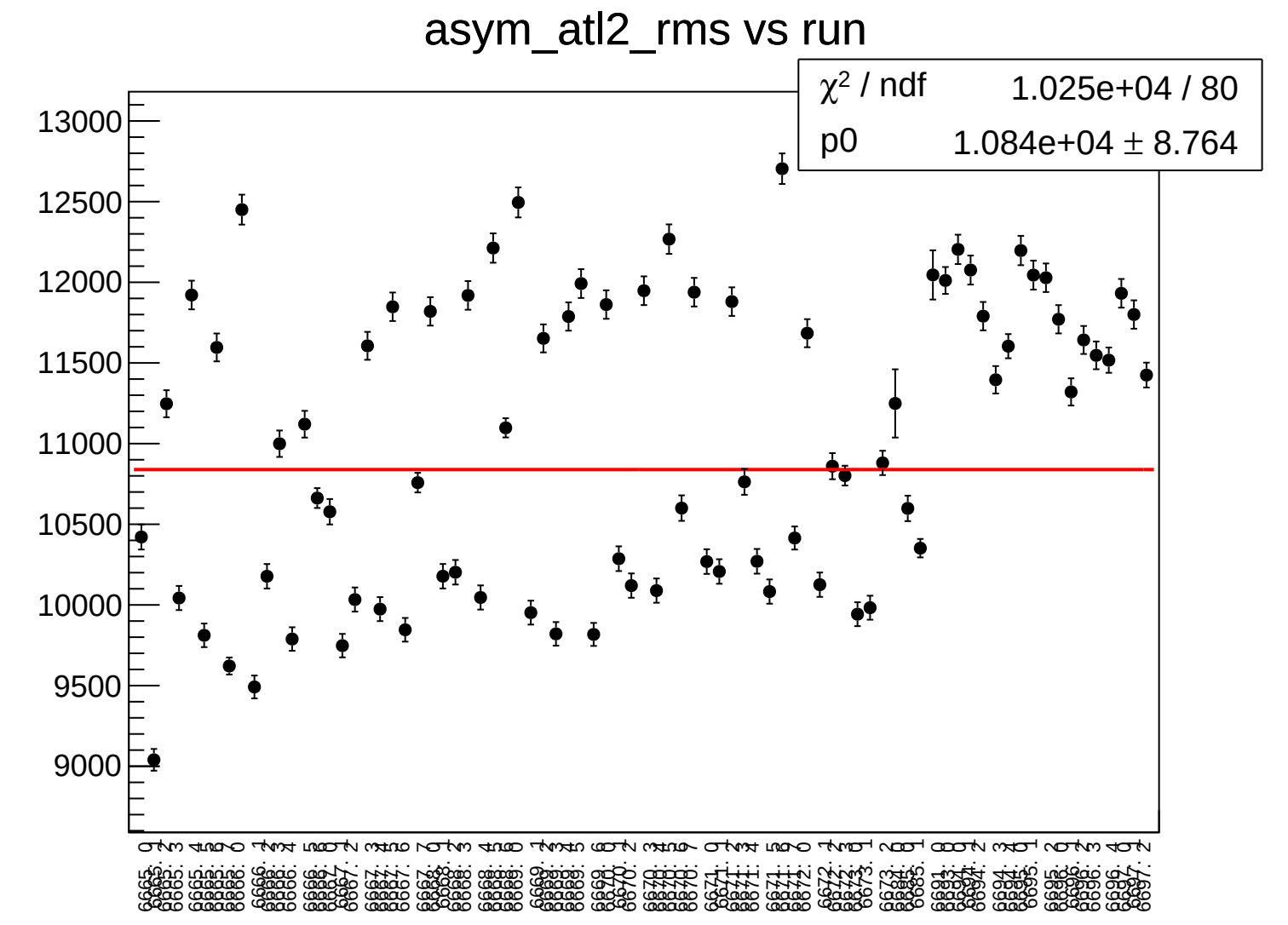

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 56.06 / 80
p0 2.527e+04 ± 1.178e+04
pull
Entries 81
Mean 309.2
Std Dev 209.7

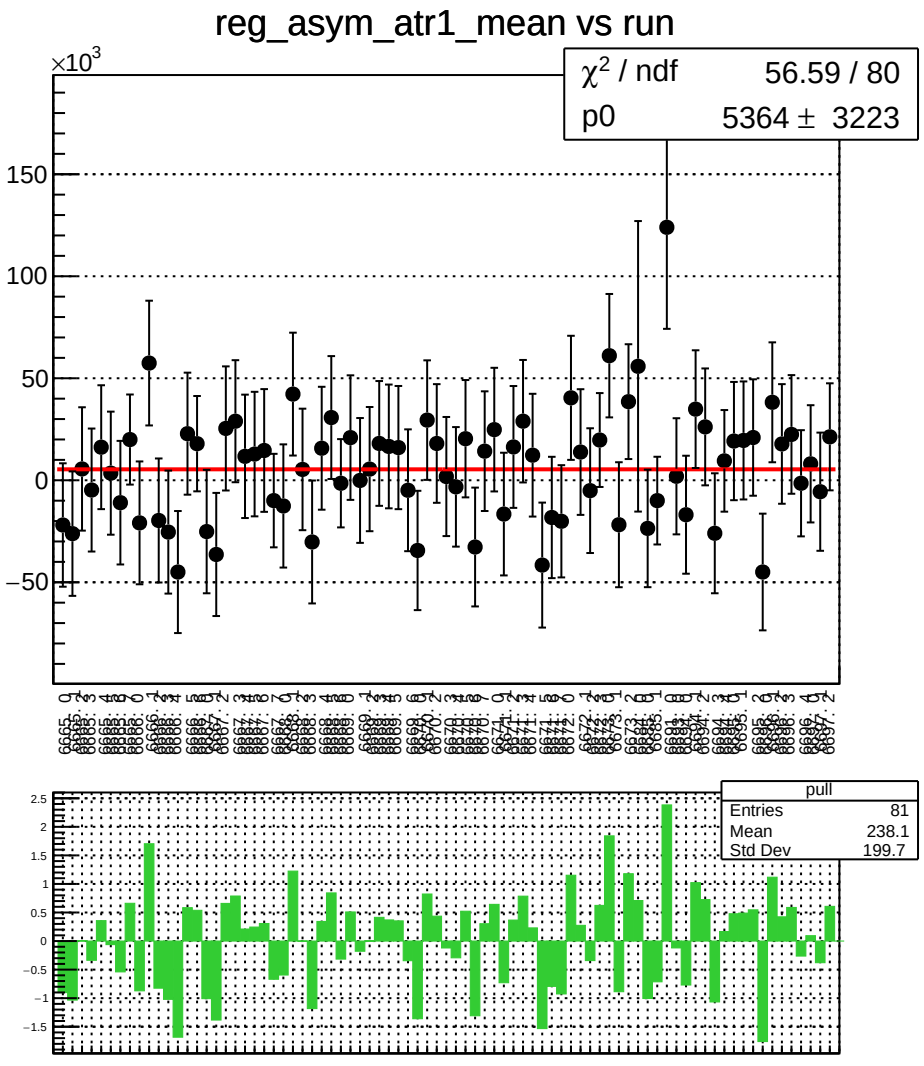

pull1D
Entries 81
Mean −0.003403
Std Dev 0.8319

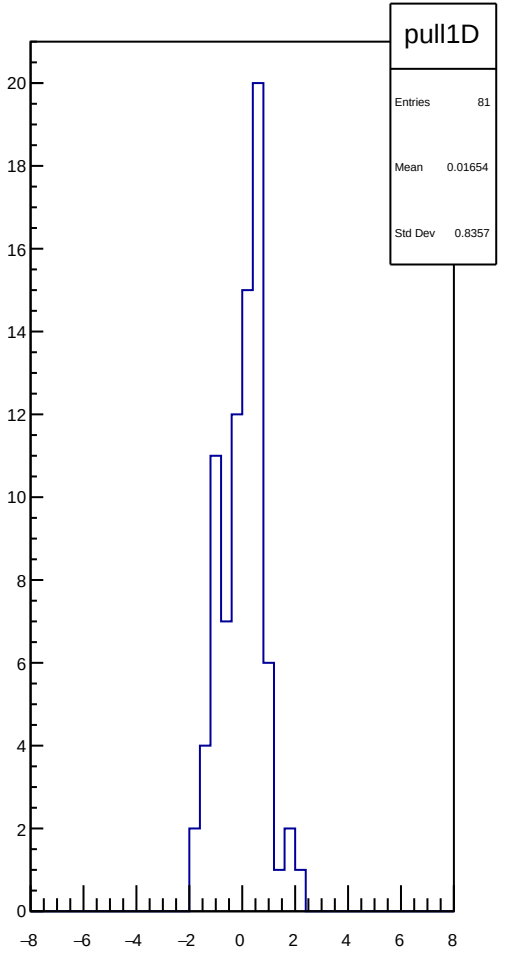

asym_atl2_correction_rms vs run
χ² / ndf 1.309e+04 / 80
p0 1.029e+04 ± 8.327
12500
12000
11500
11000
10500
10000
9500
9000
8500
8000

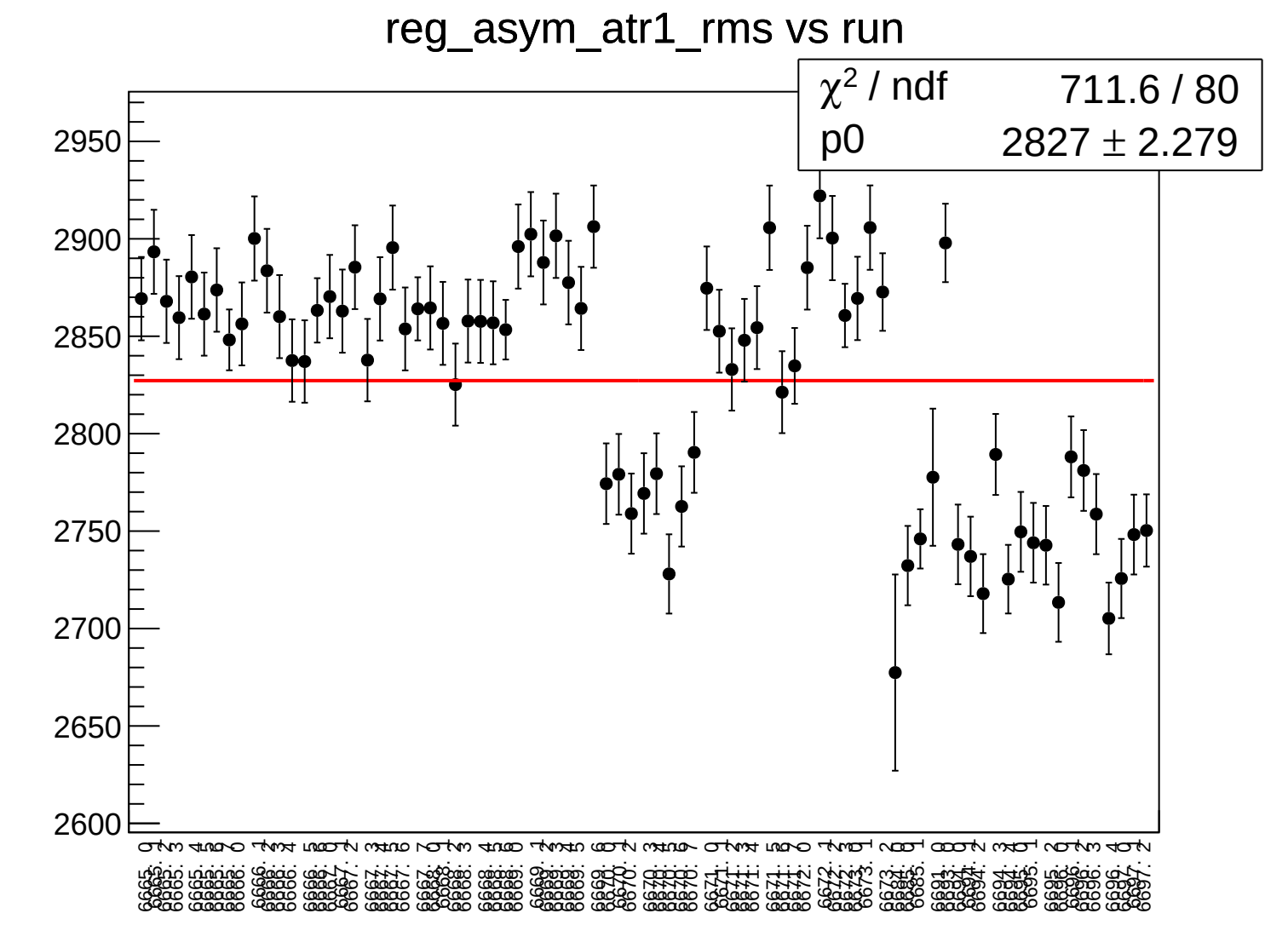

asym_atl2_mean vs run
×10^3
χ² / ndf 64.65 / 80
p0 −1.909e+04 ± 1.239e+04
pull
Entries 81
Mean 192.4
Std Dev 75.2

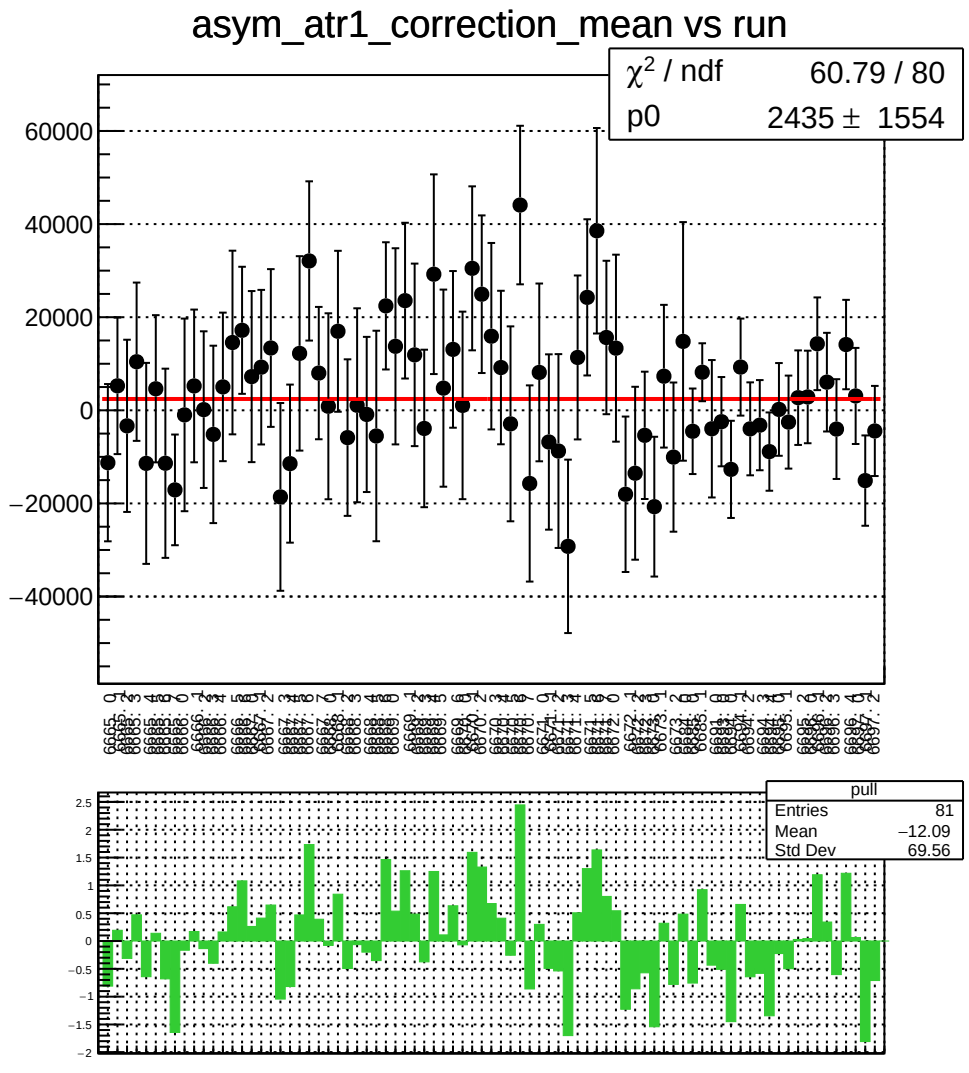

pull1D
Entries 81
Mean 0.003264
Std Dev 0.8934

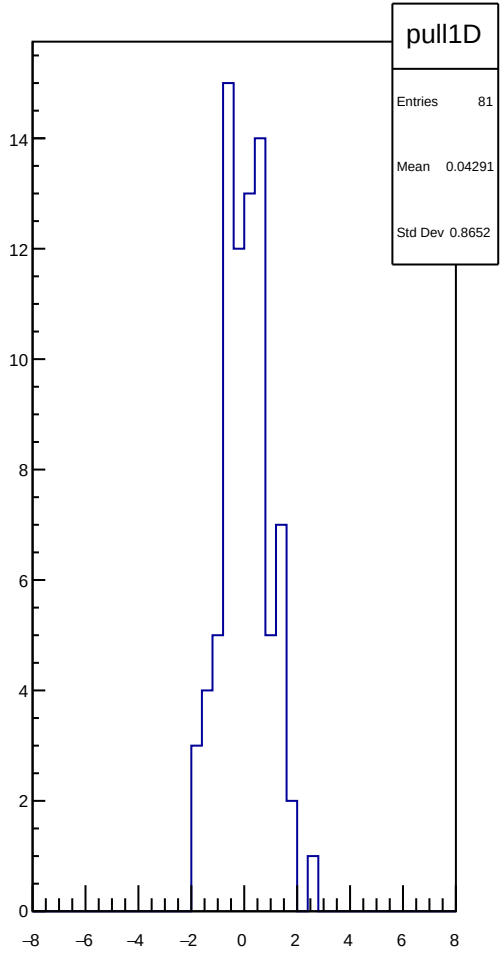

asym_atl2_rms vs run
χ² / ndf 1.025e+04 / 80
p0 1.084e+04 ± 8.764
13000
12500
12000
11500
11000
10500
10000
9500
9000

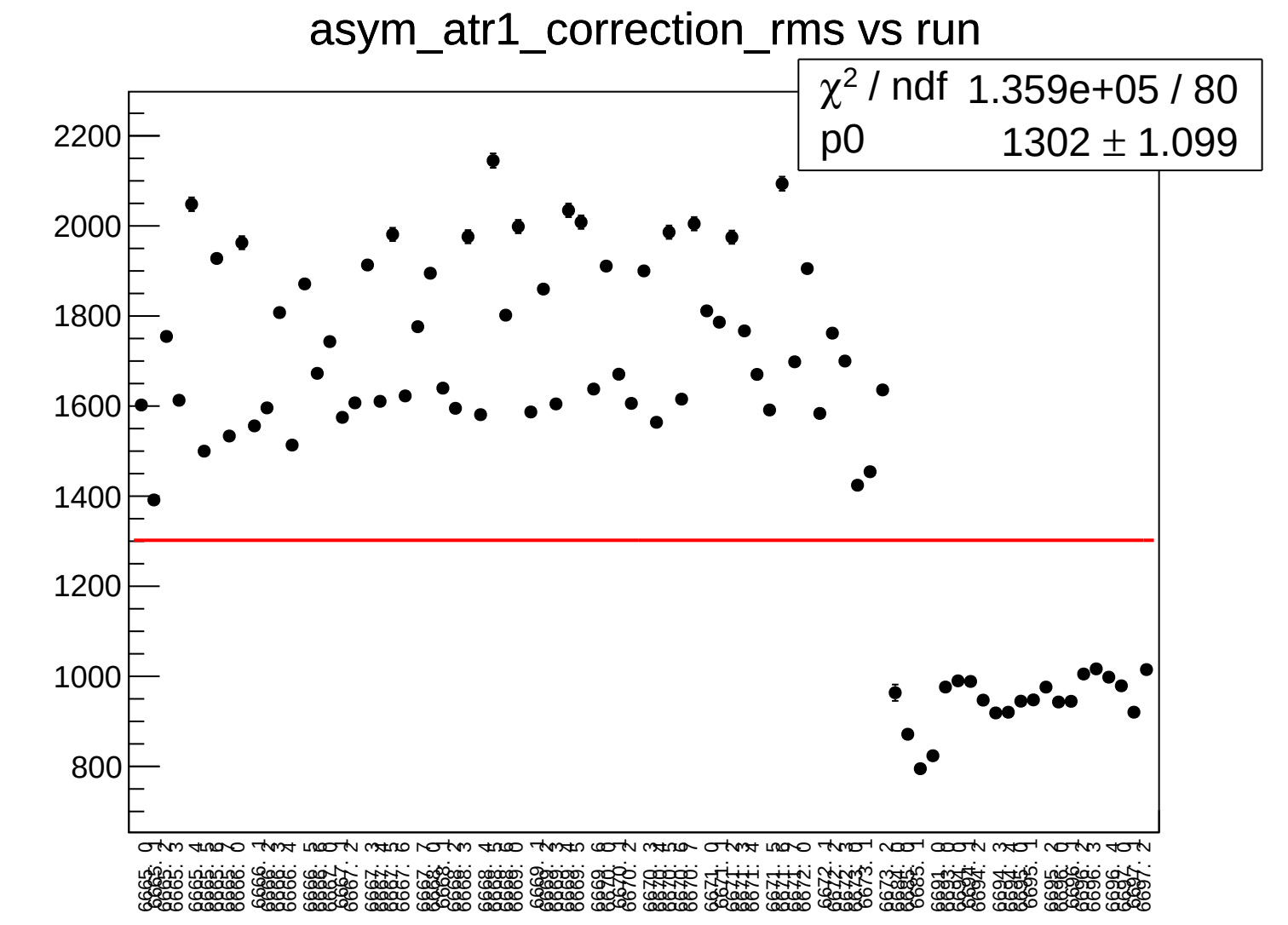

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 56.59 / 80
p0 5364 ± 3223
150
100
50
0
−50
pull
Entries 81
Mean 238.1
Std Dev 199.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

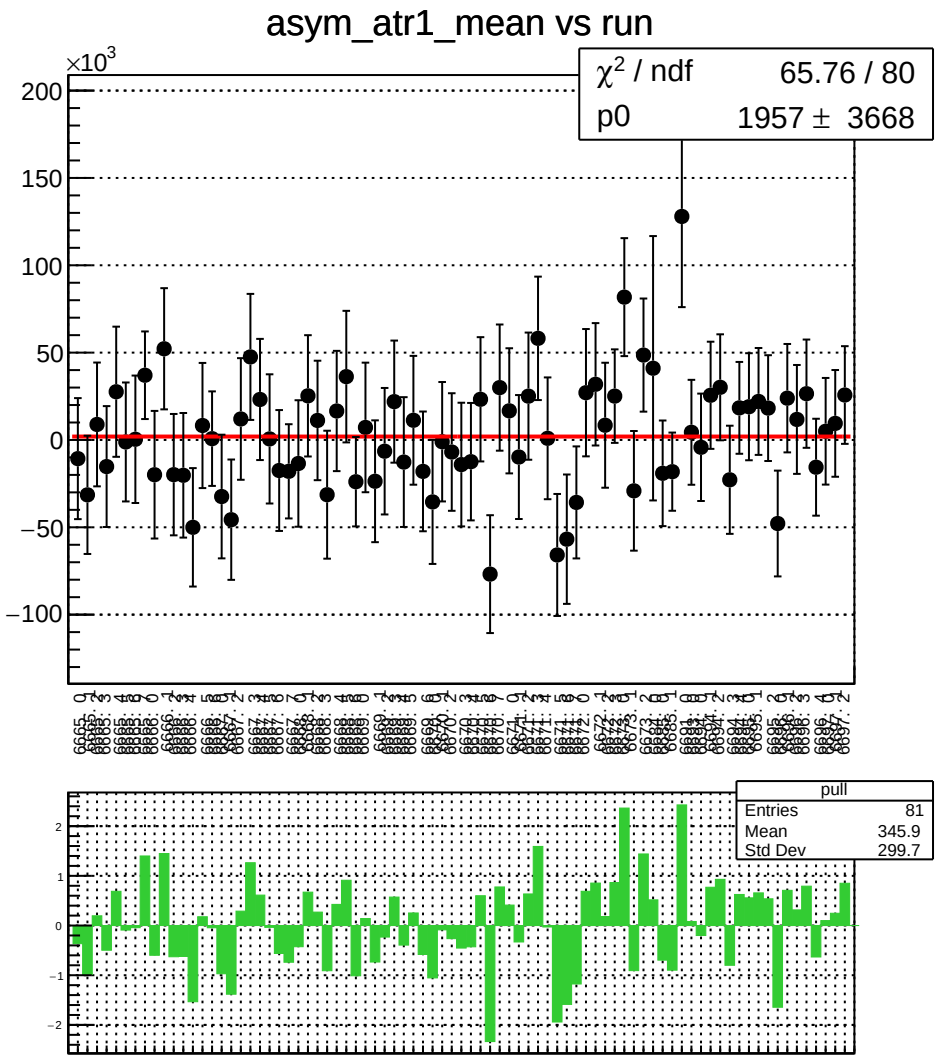

pull1D
Entries 81
Mean 0.01654
Std Dev 0.8357
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

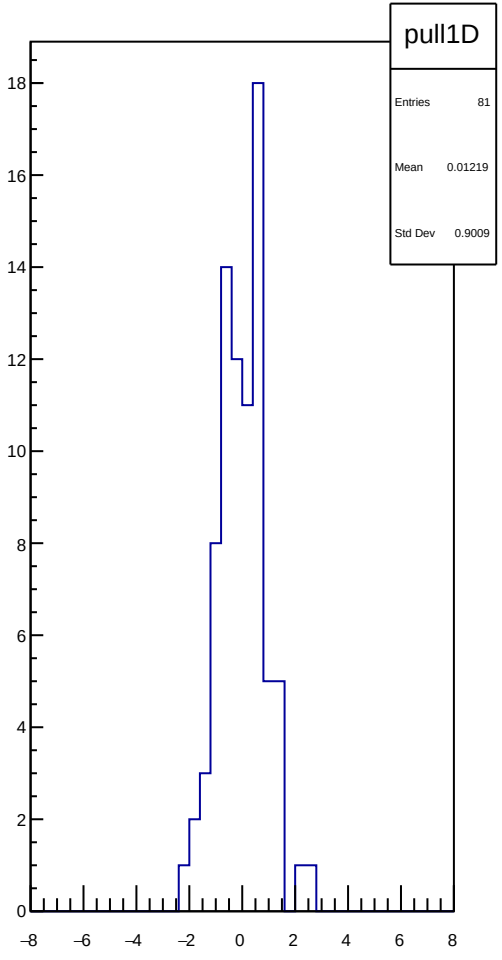

reg_asym_atr1_rms vs run
χ^2 / ndf 711.6 / 80
p0 2827 ± 2.279
2950
2900
2850
2800
2750
2700
2650
2600

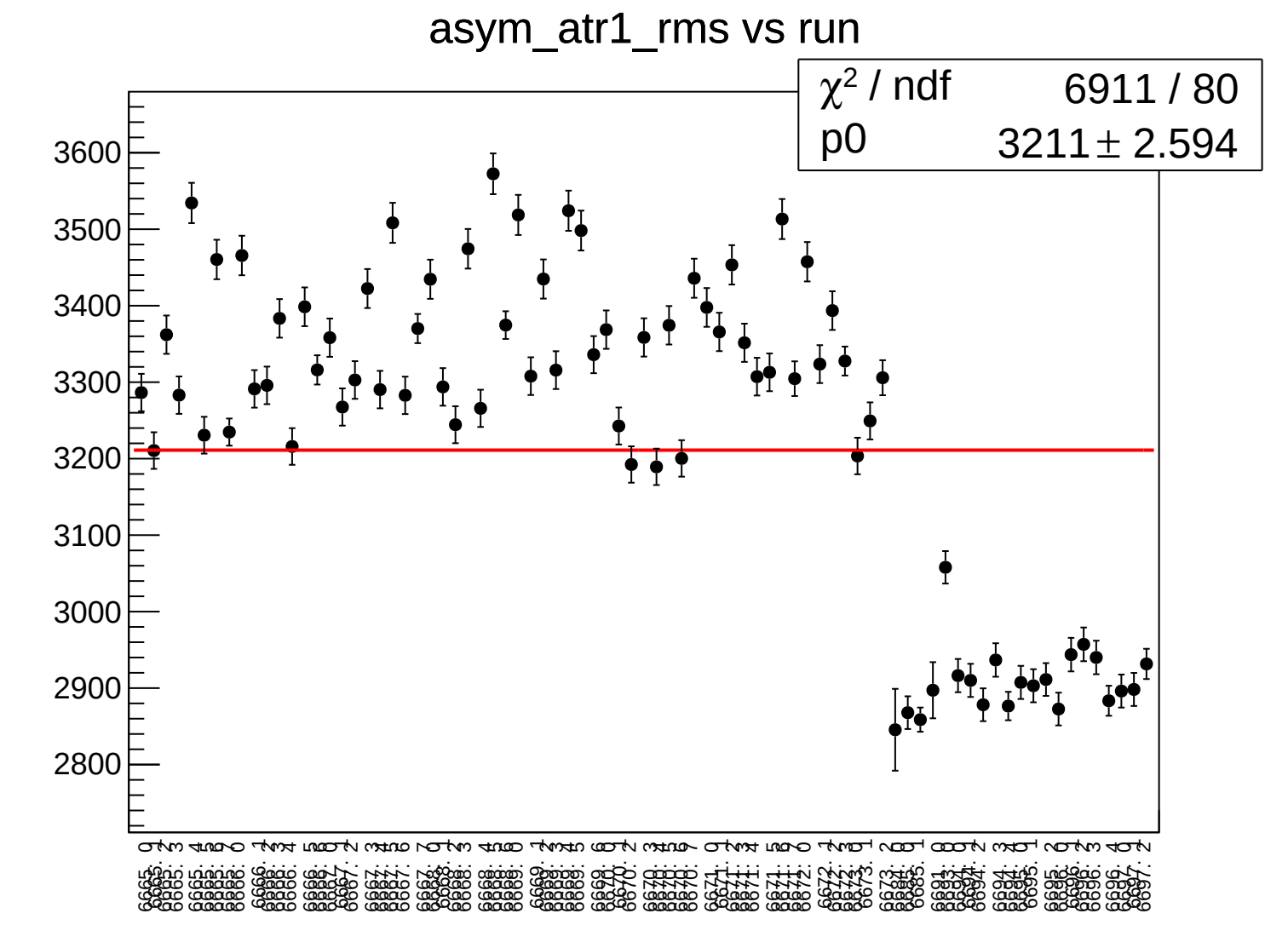

asym_atr1_correction_mean vs run
χ² / ndf 60.79 / 80
p0 2435 ± 1554
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −12.09
Std Dev 69.56
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

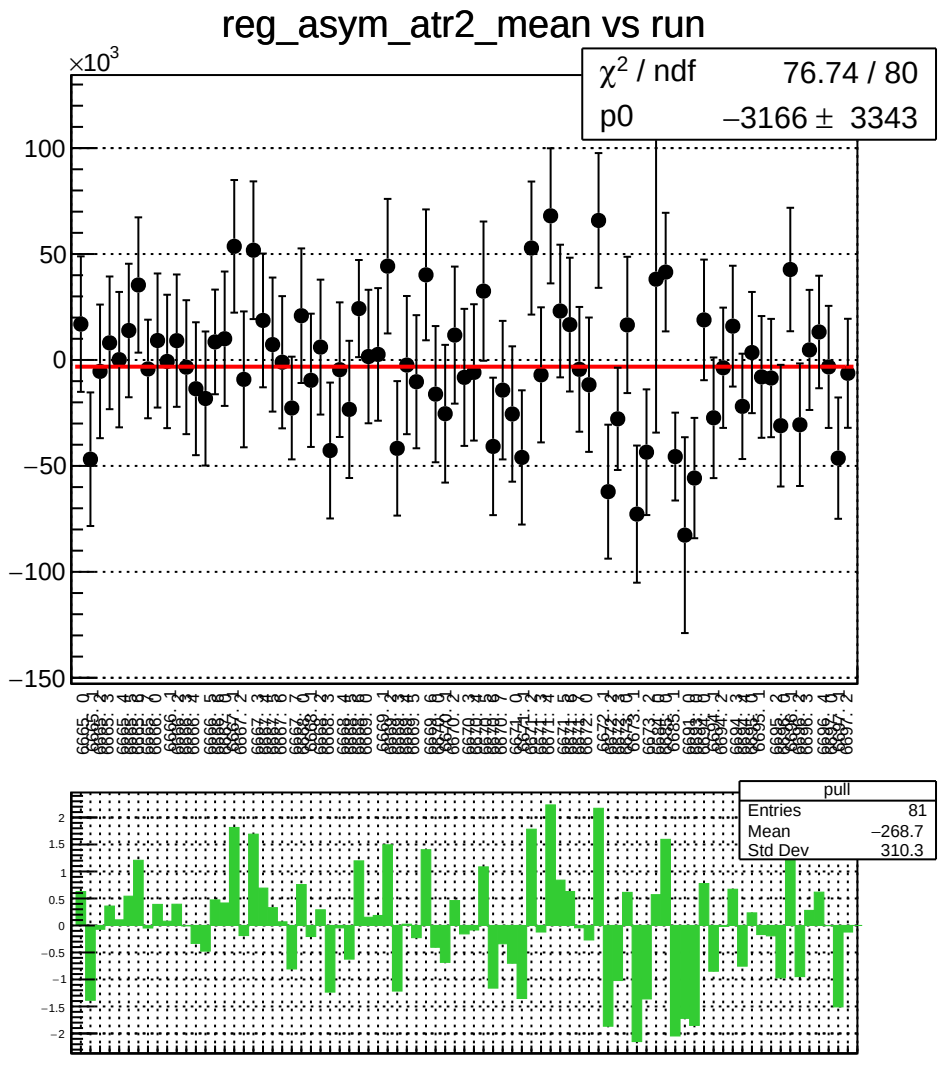

pull1D
Entries 81
Mean 0.04291
Std Dev 0.8652
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

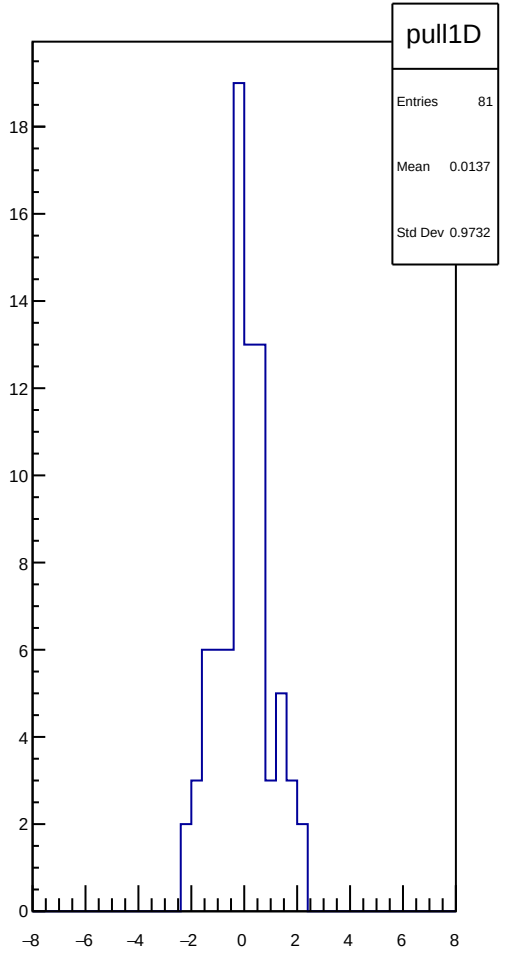

asym_atr1_correction_rms vs run
χ² / ndf 1.359e+05 / 80
p0 1302 ± 1.099
2200
2000
1800
1600
1400
1200
1000
800

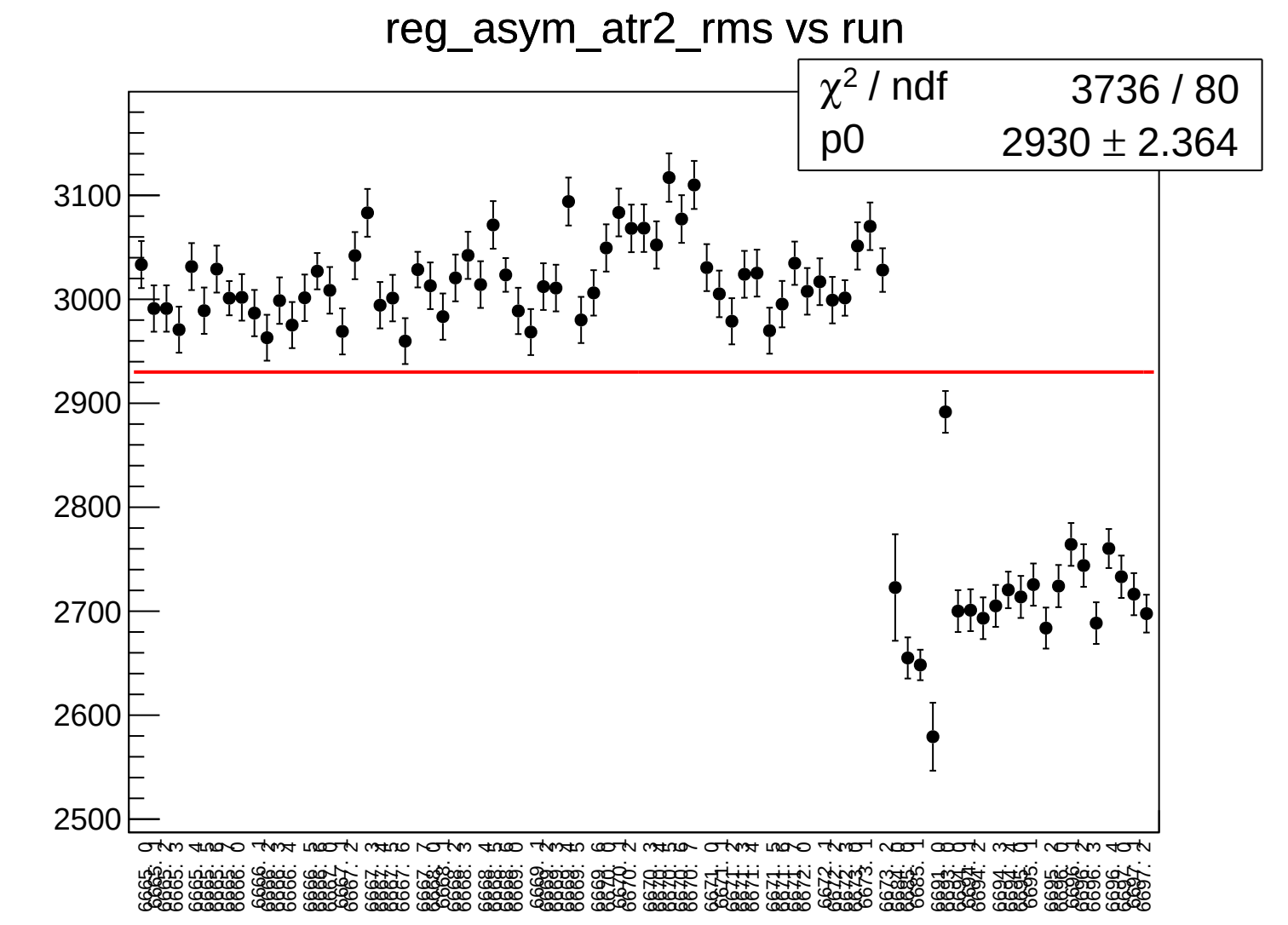

asym_atr1_mean vs run
×10^3
χ² / ndf 65.76 / 80
p0 1957 ± 3668
pull
Entries 81
Mean 345.9
Std Dev 299.7

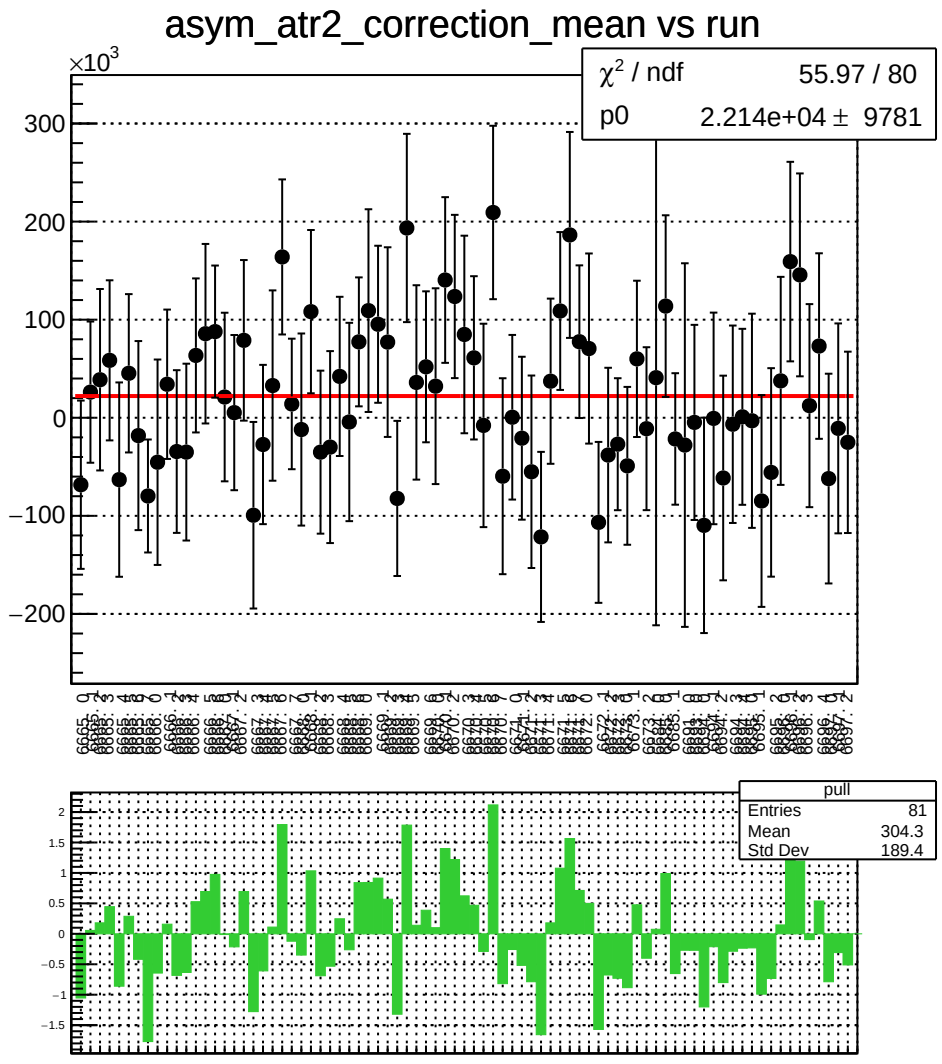

pull1D
Entries 81
Mean 0.01219
Std Dev 0.9009

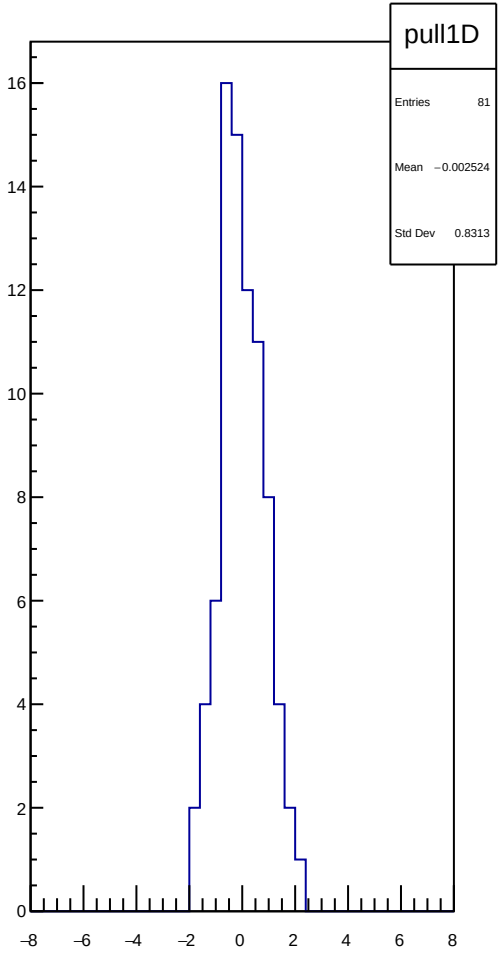

asym_atr1_rms vs run
χ^2 / ndf 6911 / 80
p0 3211 ± 2.594
3600
3500
3400
3300
3200
3100
3000
2900
2800

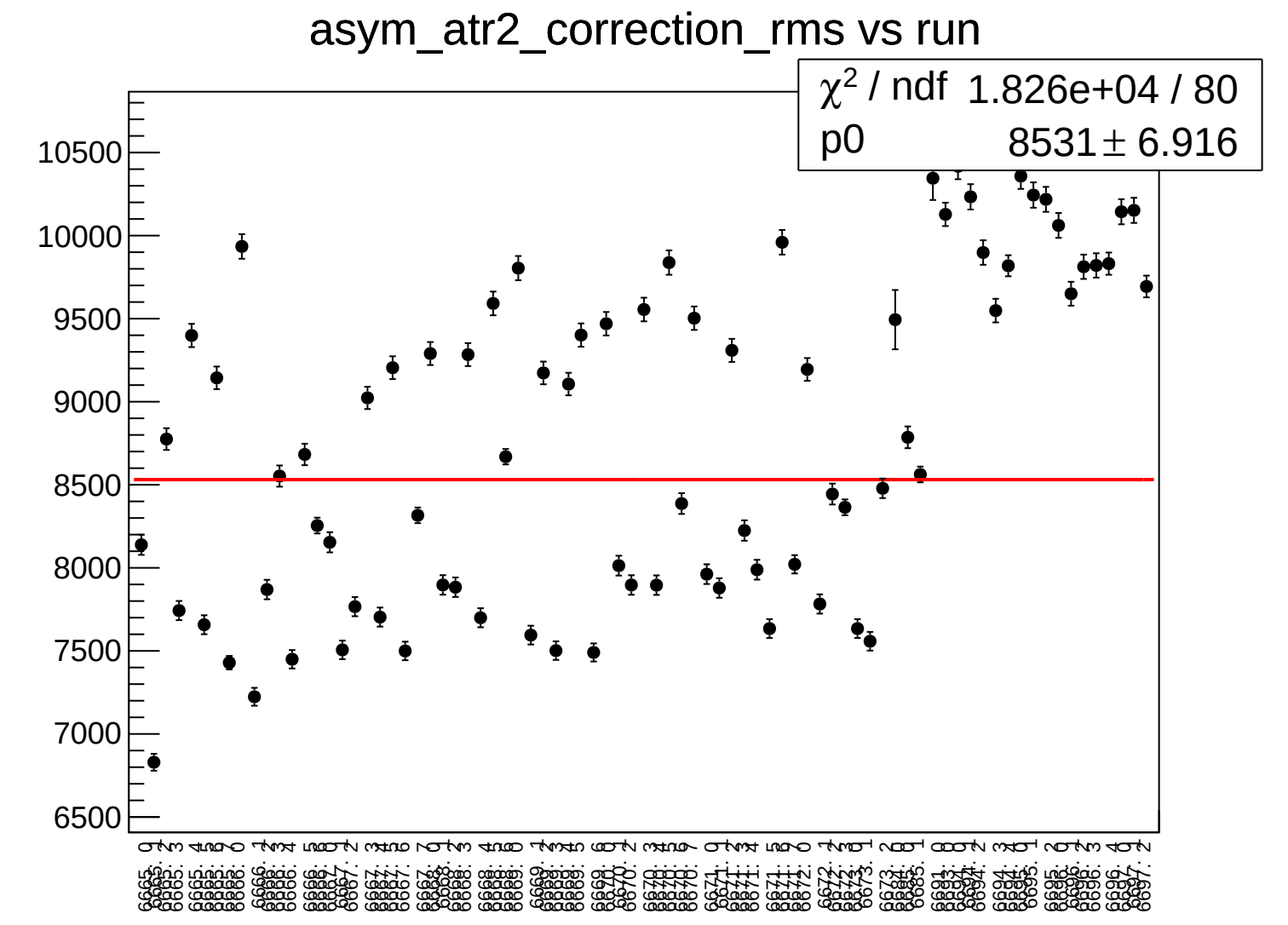

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 76.74 / 80
p0 −3166 ± 3343
100
50
0
−50
−100
−150
pull
Entries 81
Mean −268.7
Std Dev 310.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

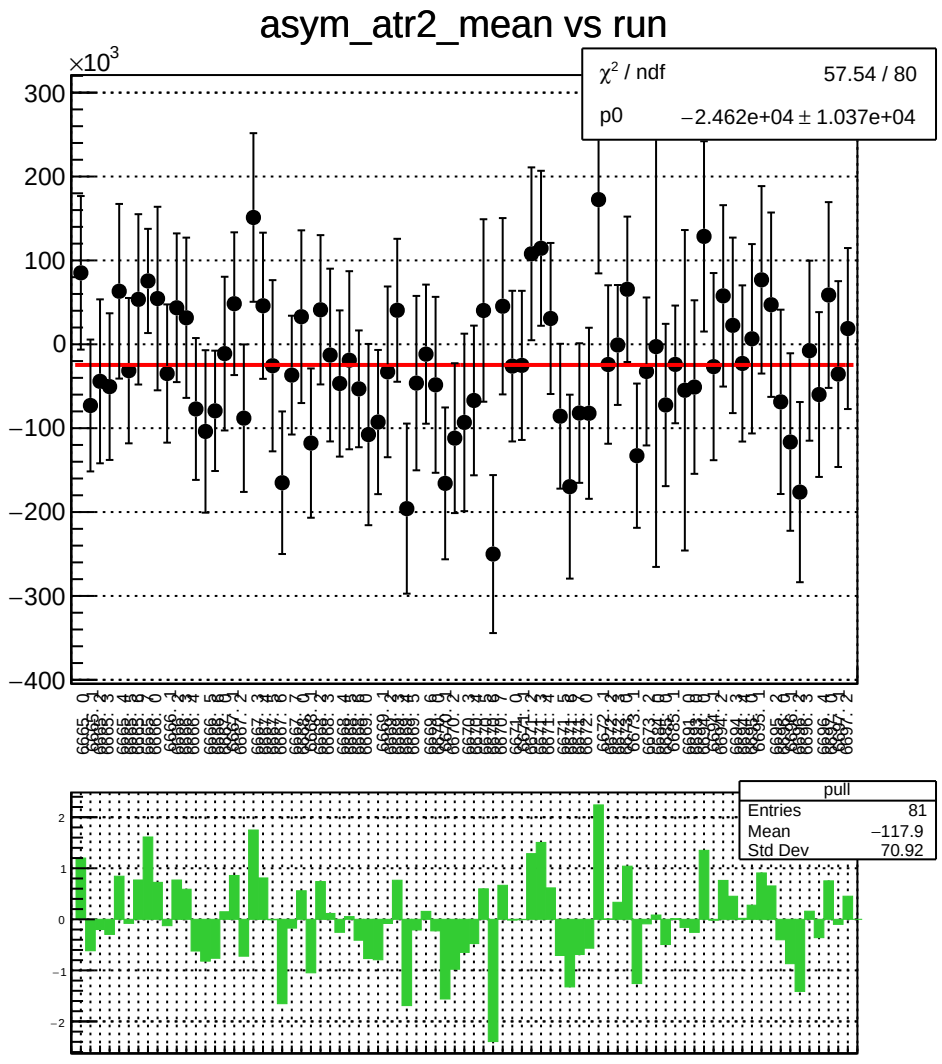

pull1D
Entries 81
Mean 0.0137
Std Dev 0.9732
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

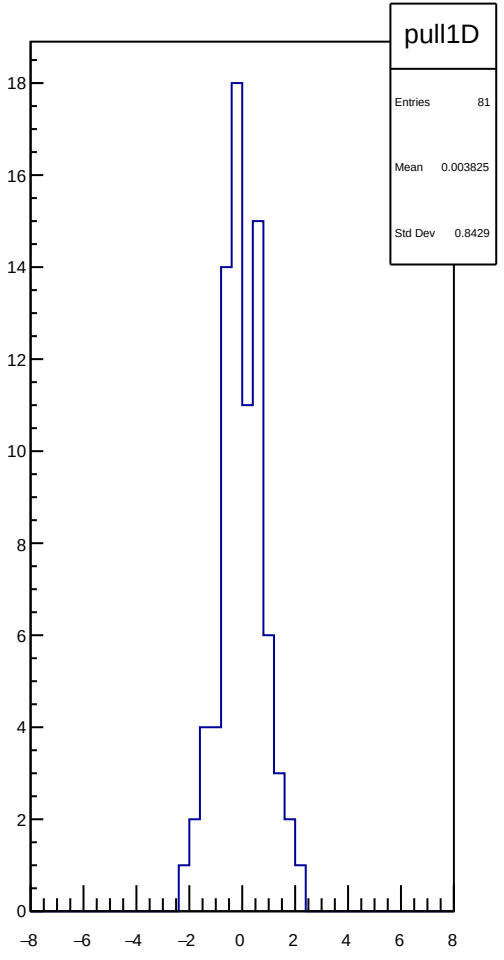

reg_asym_atr2_rms vs run
χ² / ndf 3736 / 80
p0 2930 ± 2.364
3100
3000
2900
2800
2700
2600
2500

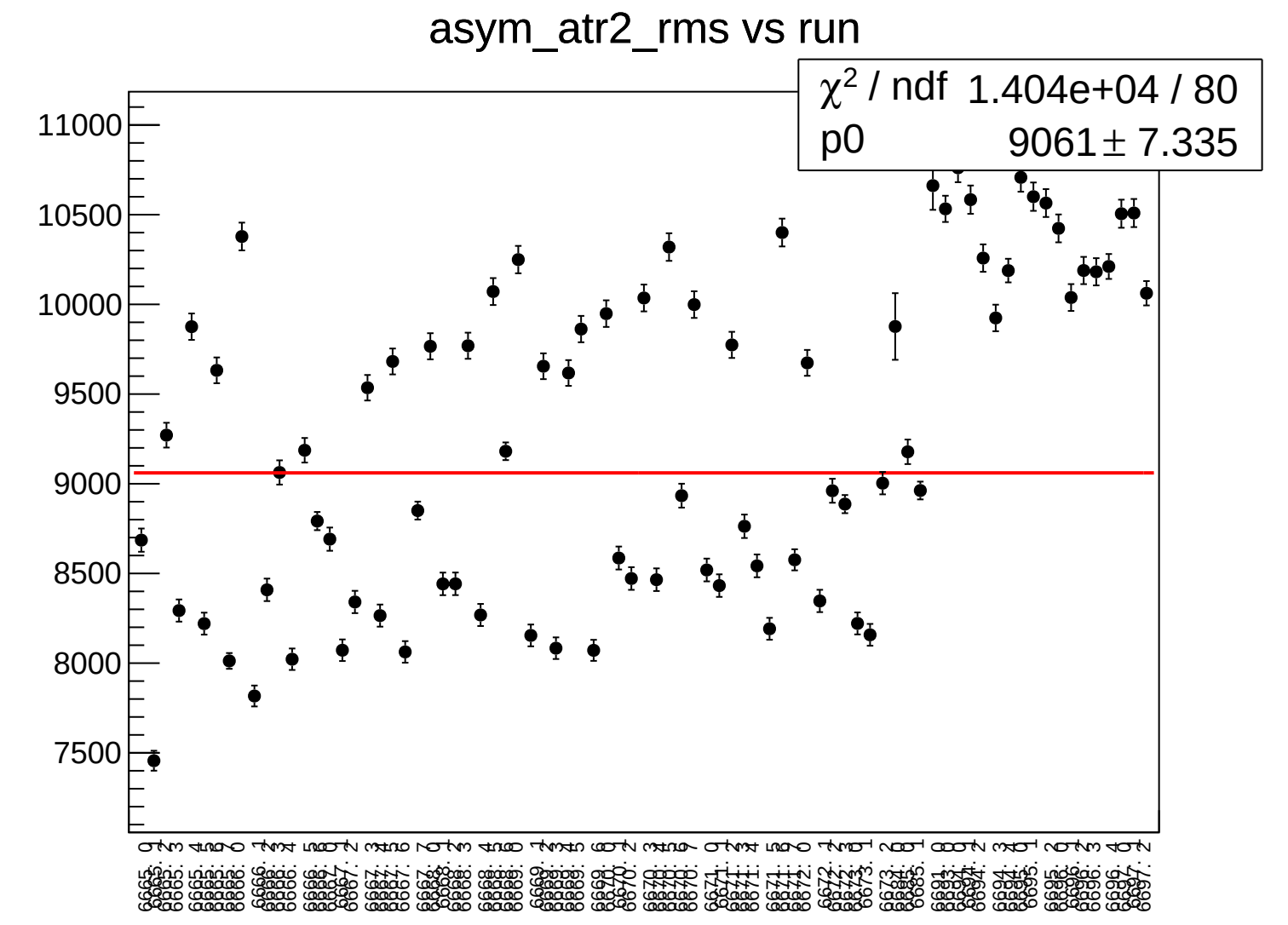

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 55.97 / 80
p0 2.214e+04 ± 9781
pull
Entries 81
Mean 304.3
Std Dev 189.4

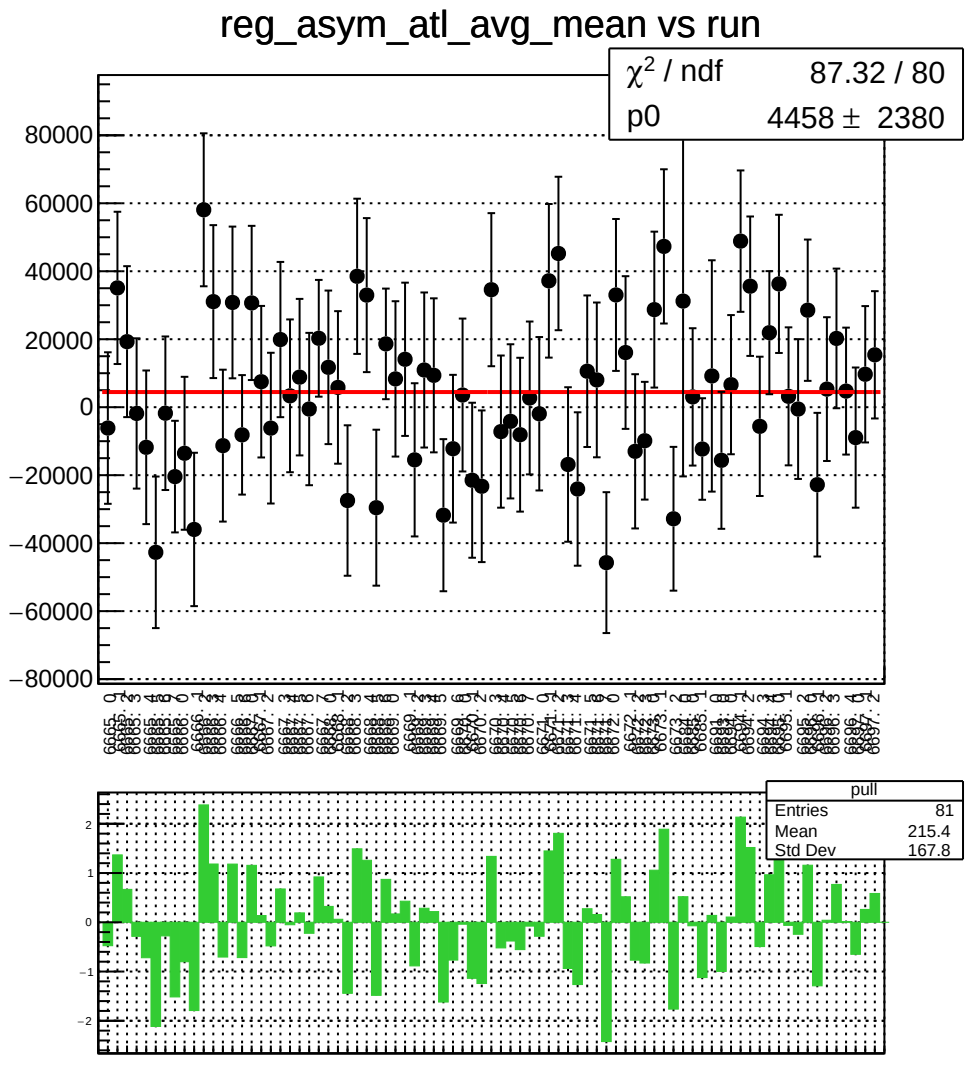

pull1D
Entries 81
Mean −0.002524
Std Dev 0.8313

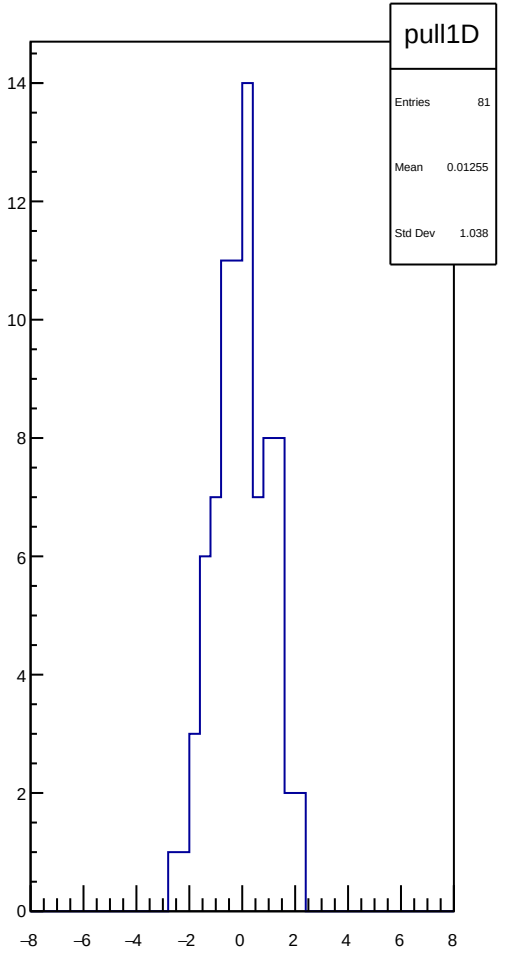

asym_atr2_correction_rms vs run
χ² / ndf 1.826e+04 / 80
p0 8531 ± 6.916
10500
10000
9500
9000
8500
8000
7500
7000
6500

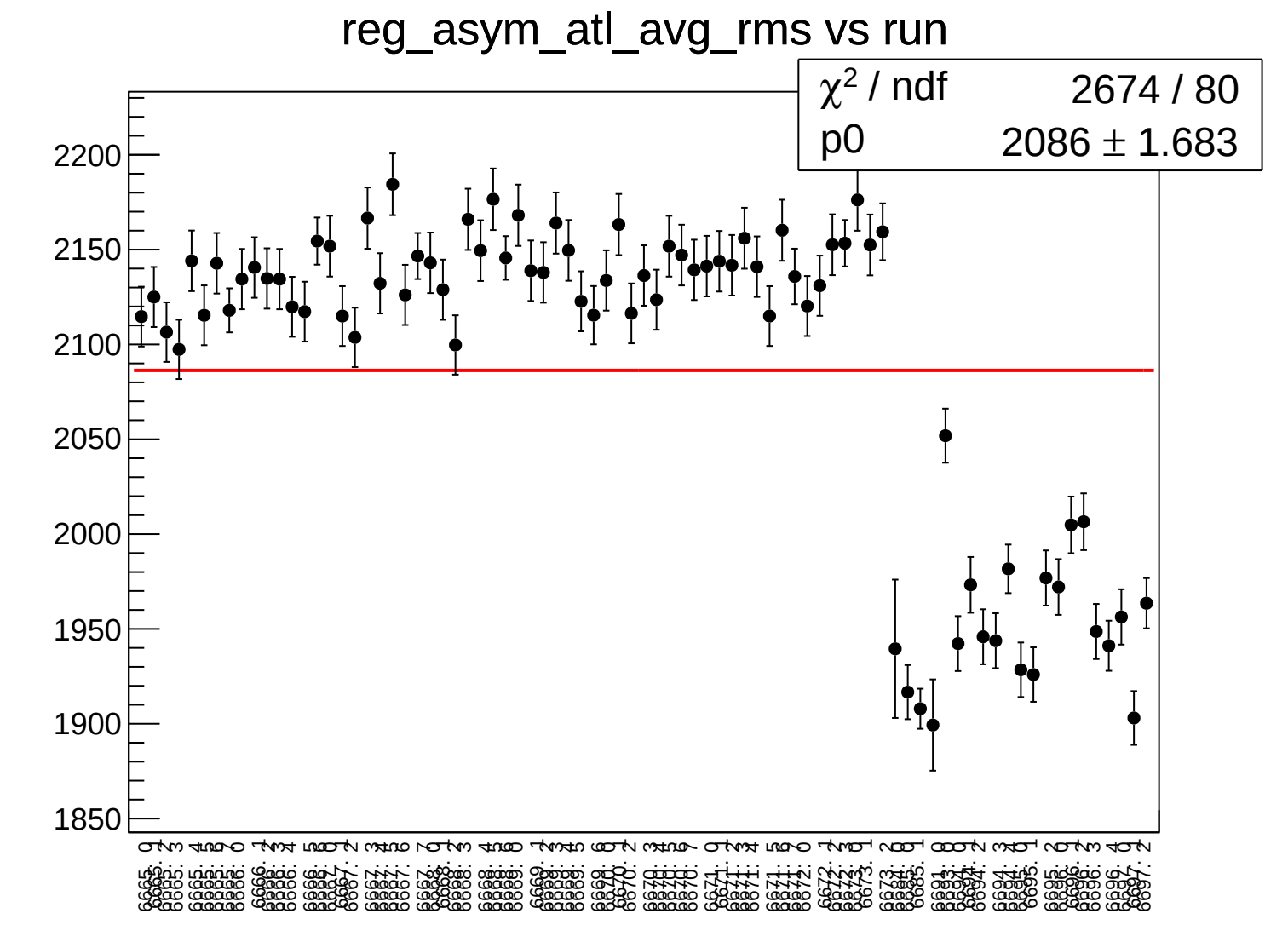

asym_atr2_mean vs run
×10^3
χ² / ndf 57.54 / 80
p0 −2.462e+04 ± 1.037e+04
pull
Entries 81
Mean −117.9
Std Dev 70.92

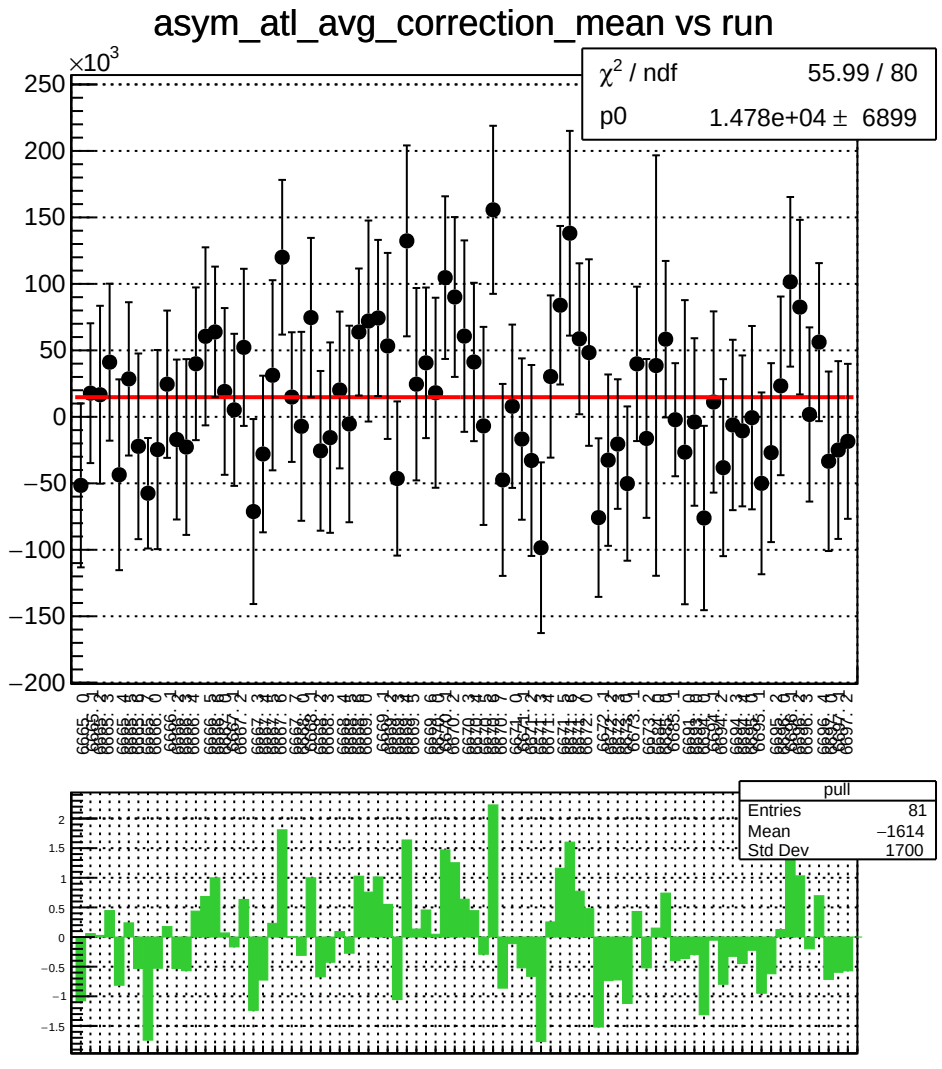

pull1D
Entries 81
Mean 0.003825
Std Dev 0.8429

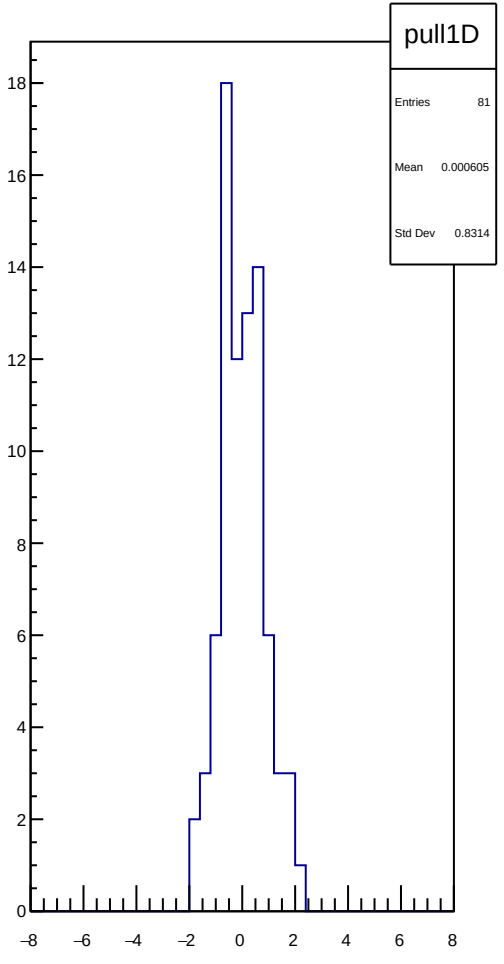

asym_atr2_rms vs run
χ² / ndf 1.404e+04 / 80
p0 9061 ± 7.335
11000
10500
10000
9500
9000
8500
8000
7500

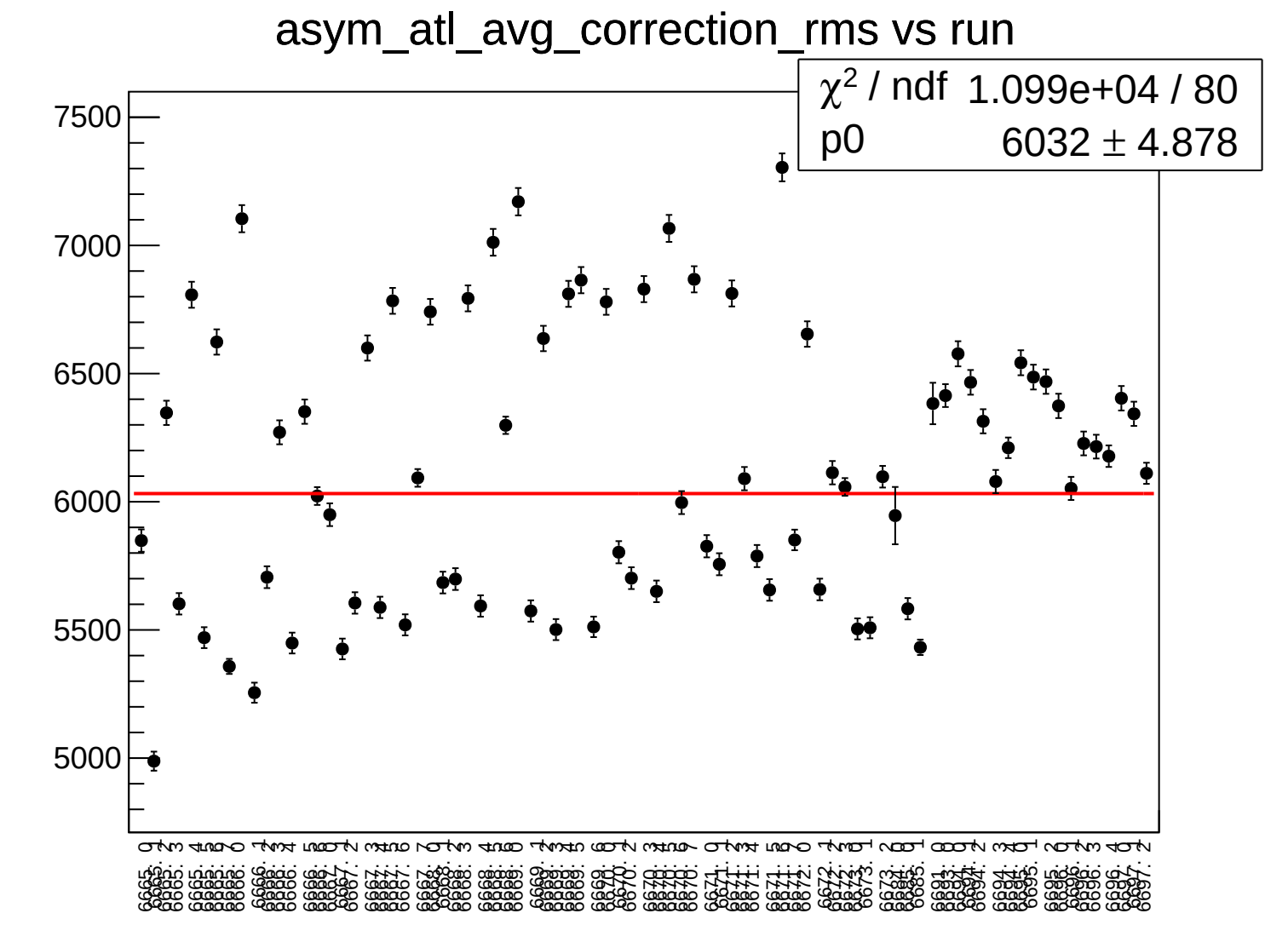

reg_asym_atl_avg_mean vs run
χ² / ndf 87.32 / 80
p0 4458 ± 2380
pull
Entries 81
Mean 215.4
Std Dev 167.8

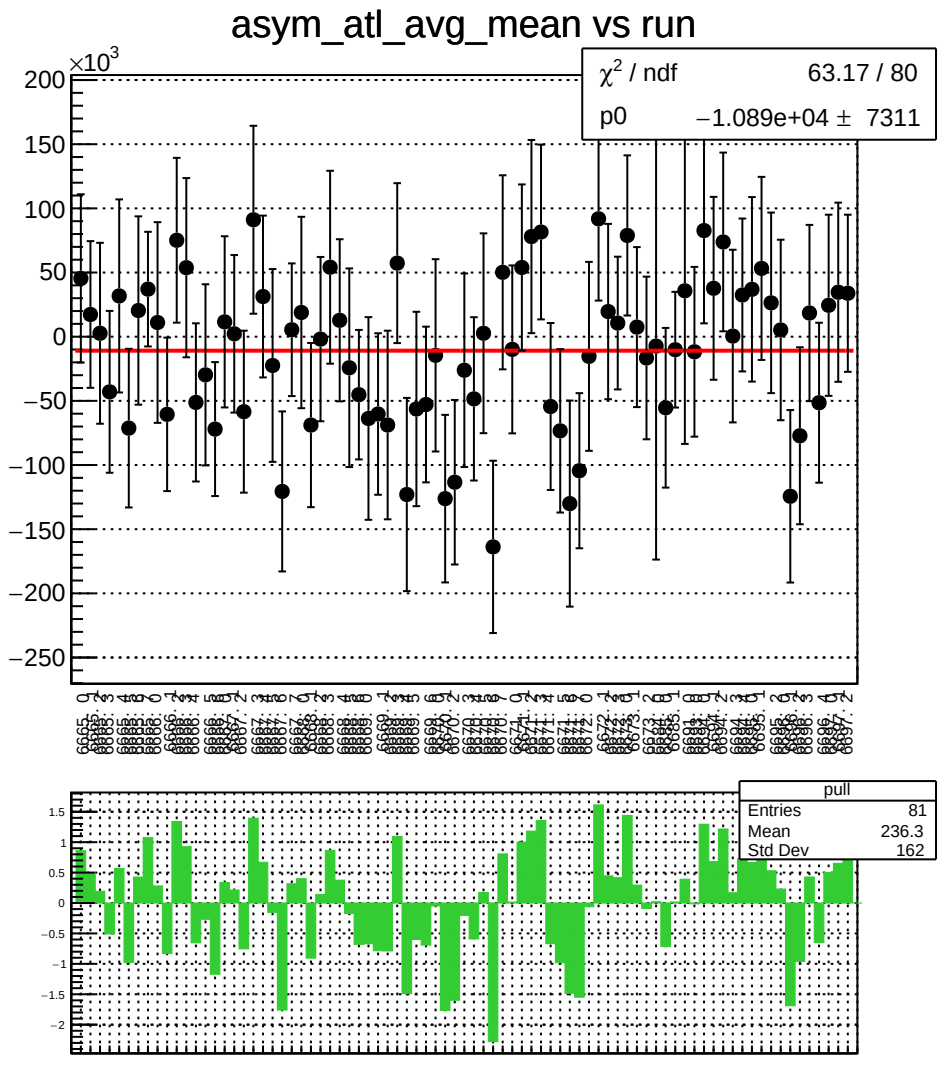

pull1D
Entries 81
Mean 0.01255
Std Dev 1.038

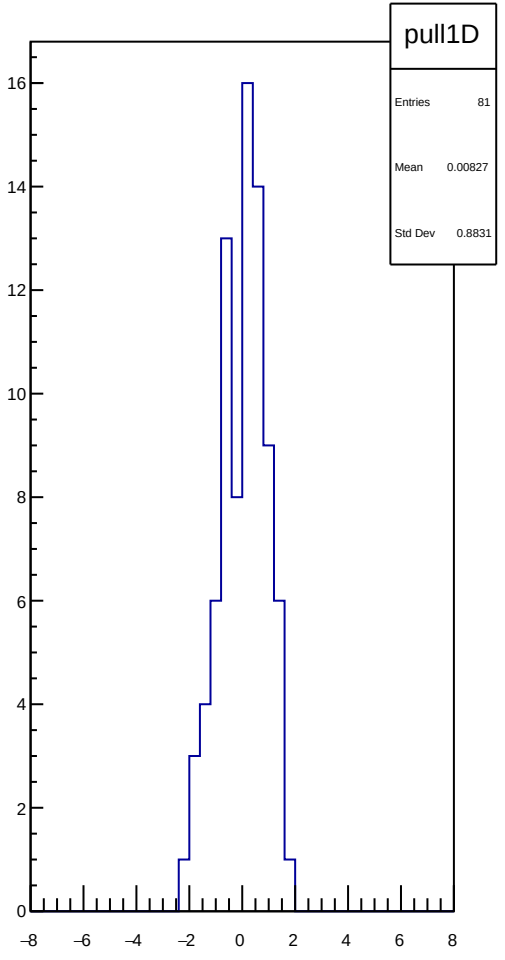

reg_asym_atl_avg_rms vs run
χ² / ndf 2674 / 80
p0 2086 ± 1.683
2200
2150
2100
2050
2000
1950
1900
1850

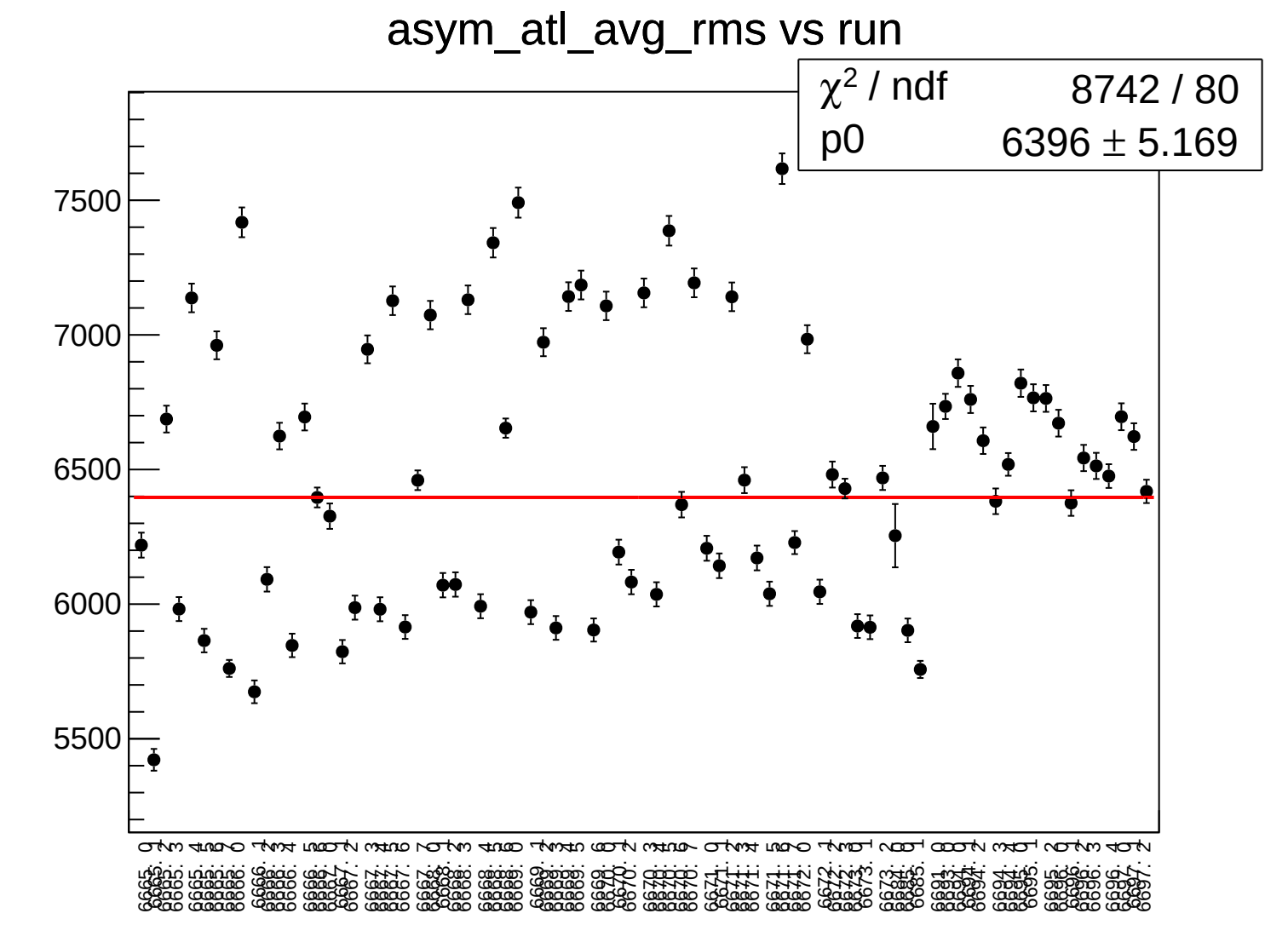

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 55.99 / 80
p0 1.478e+04 ± 6899
pull
Entries 81
Mean −1614
Std Dev 1700

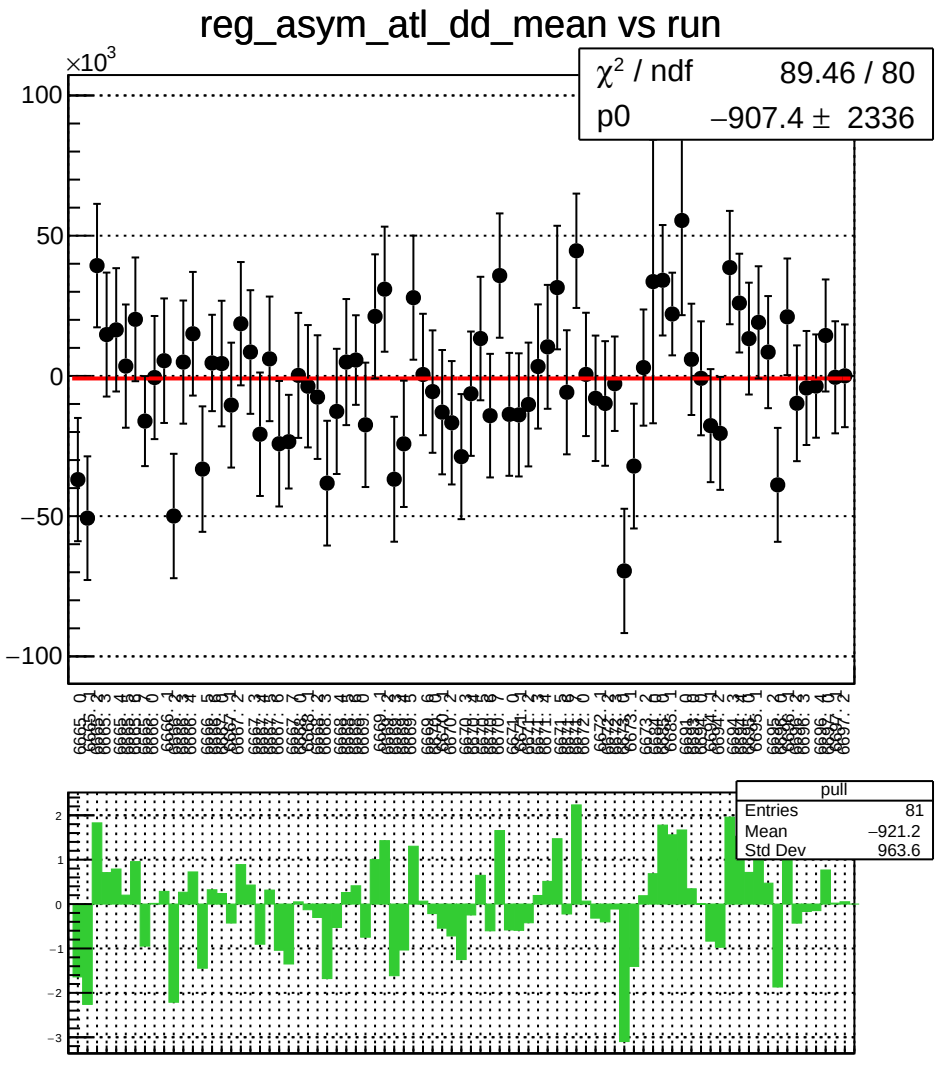

pull1D
Entries 81
Mean 0.000605
Std Dev 0.8314

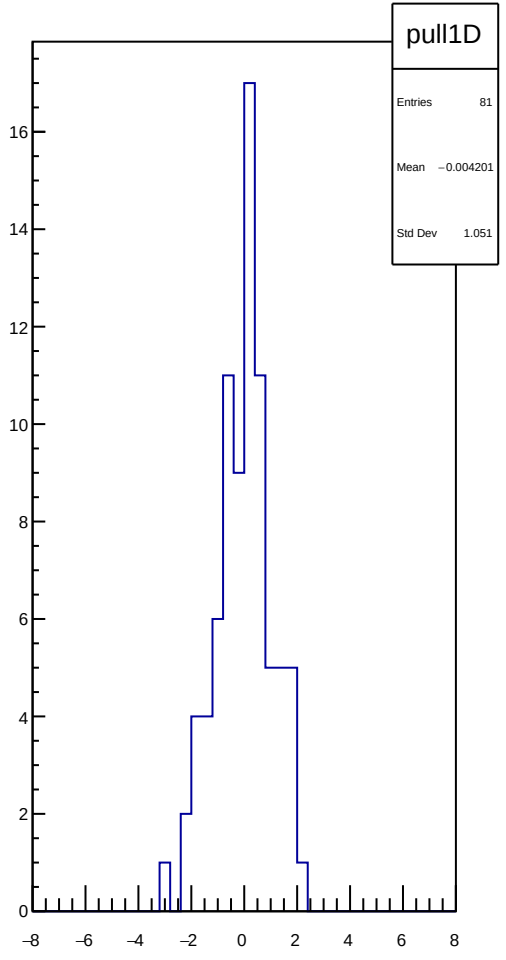

asym_atl_avg_correction_rms vs run
χ² / ndf 1.099e+04 / 80
p0 6032 ± 4.878
7500
7000
6500
6000
5500
5000

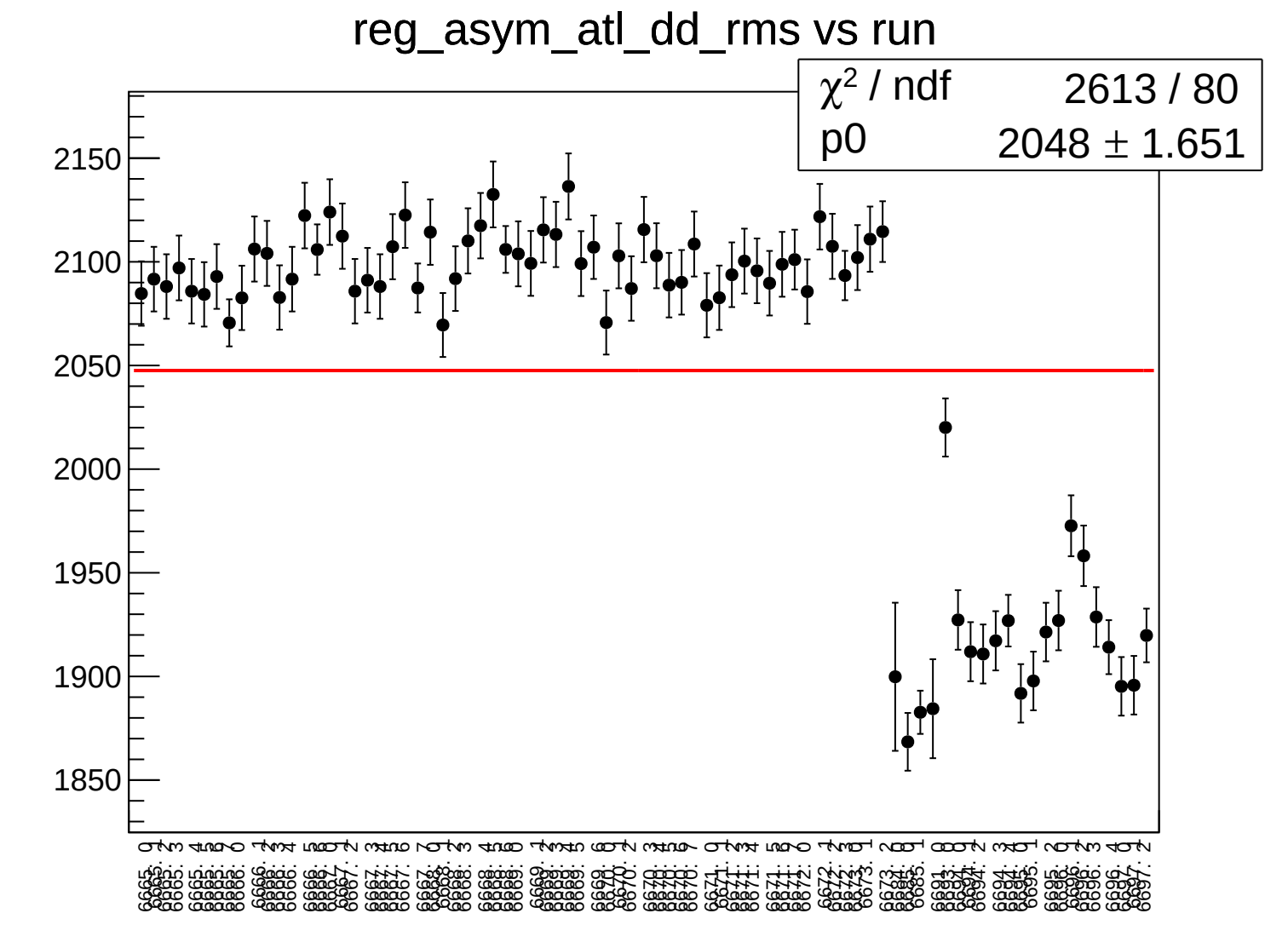

asym_atl_avg_mean vs run
×10^3
χ² / ndf 63.17 / 80
p0 −1.089e+04 ± 7311
pull
Entries 81
Mean 236.3
Std Dev 162

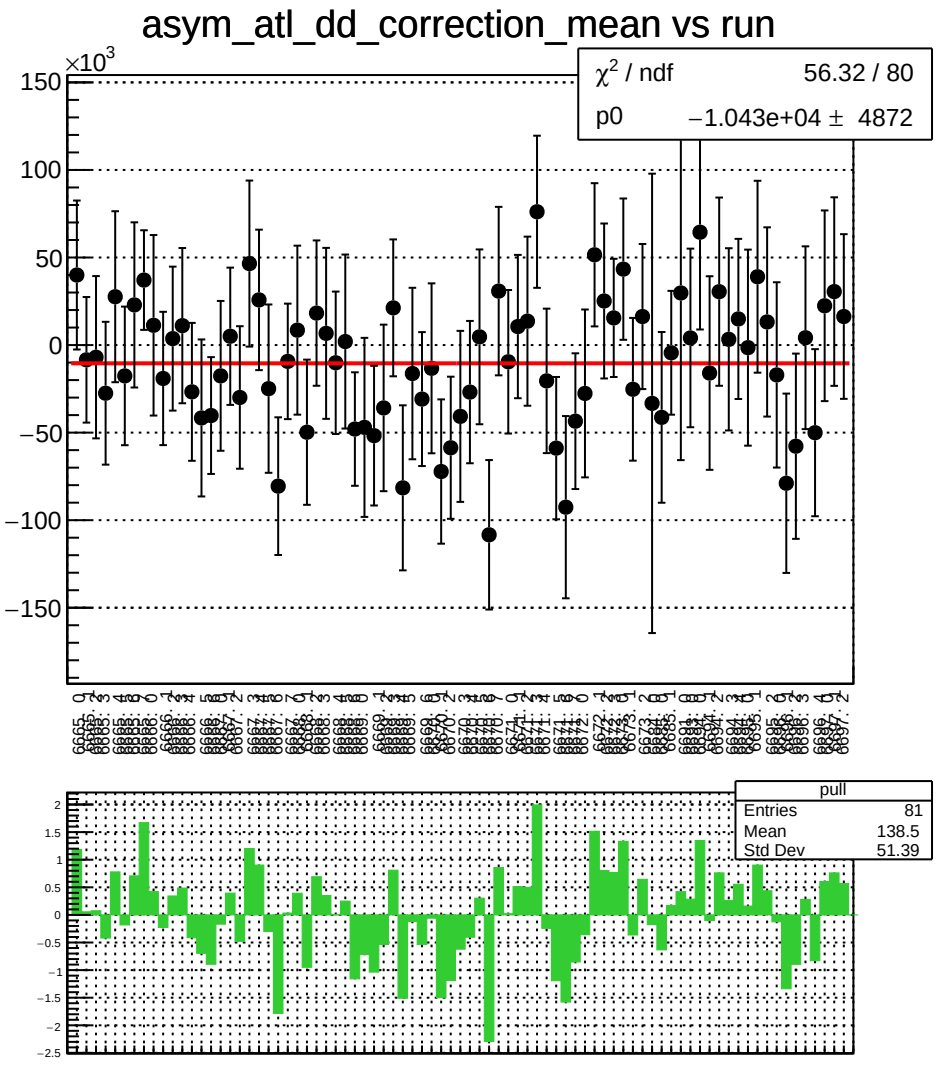

pull1D
Entries 81
Mean 0.00827
Std Dev 0.8831

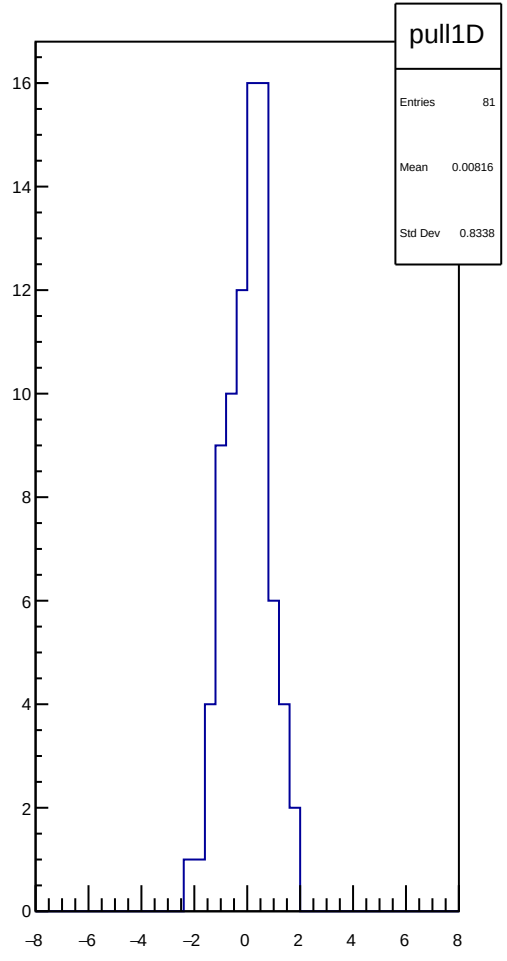

asym_atl_avg_rms vs run
χ² / ndf 8742 / 80
p0 6396 ± 5.169
7500
7000
6500
6000
5500

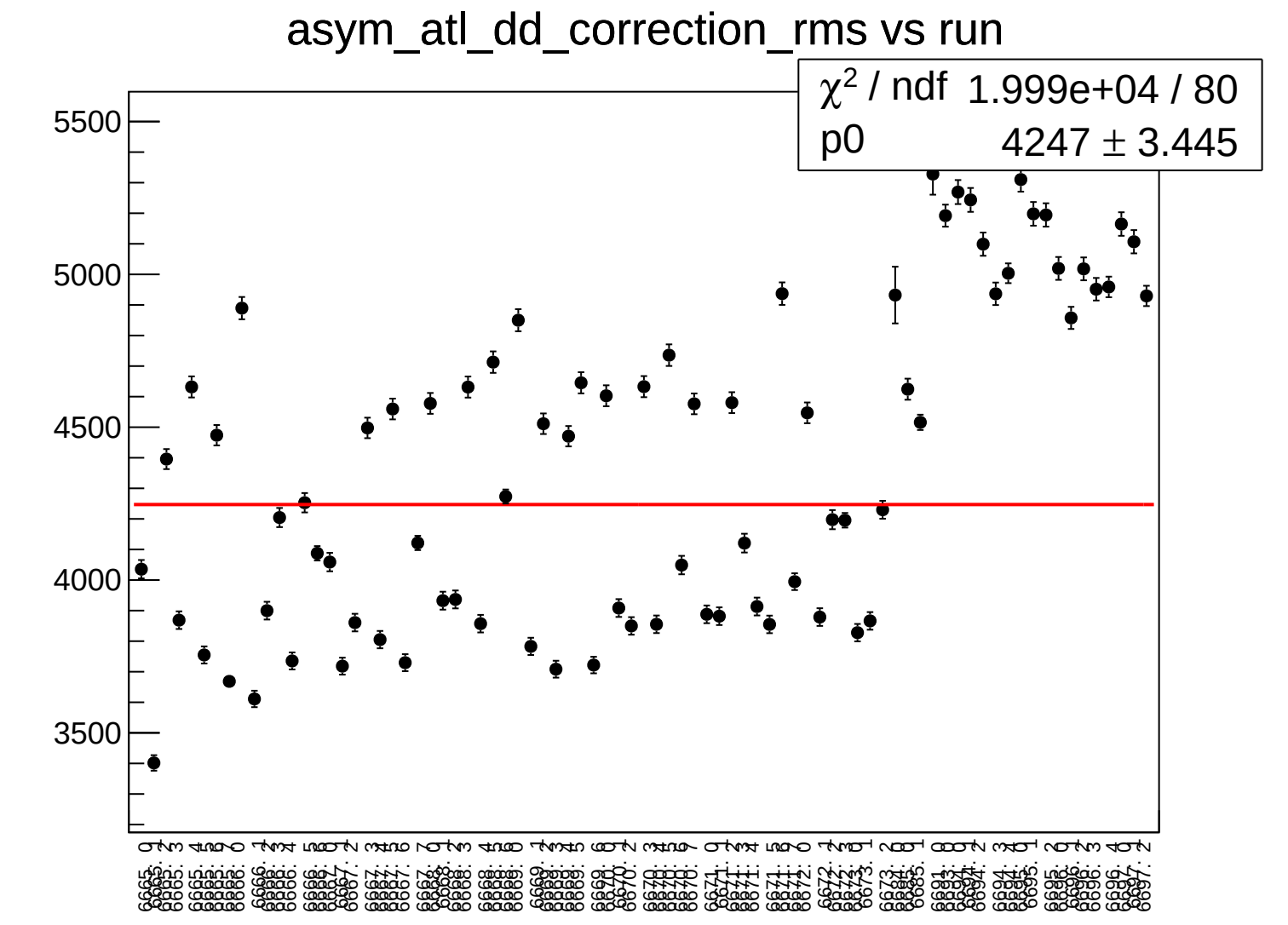

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 89.46 / 80
p0 −907.4 ± 2336
100
50
0
−50
−100
pull
Entries 81
Mean −921.2
Std Dev 963.6
2
1
0
−1
−2
−3

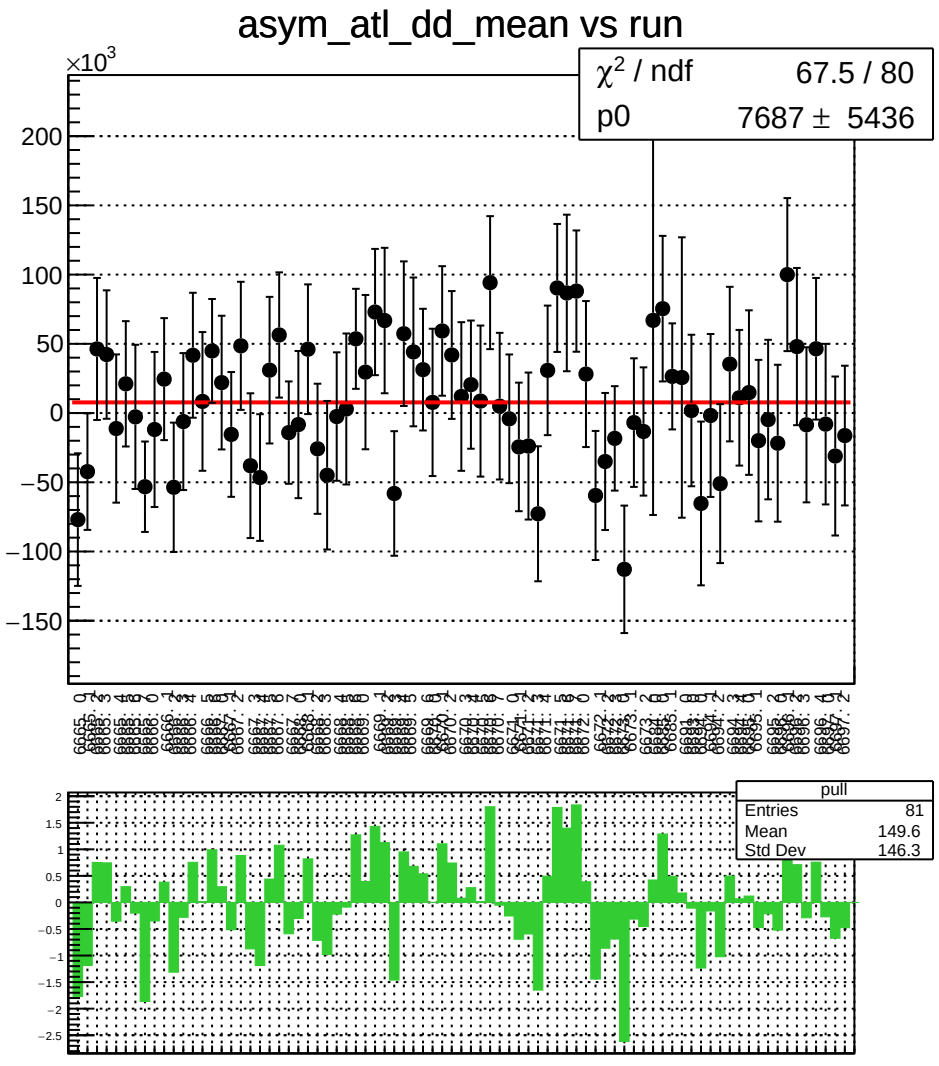

pull1D
Entries 81
Mean −0.004201
Std Dev 1.051
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

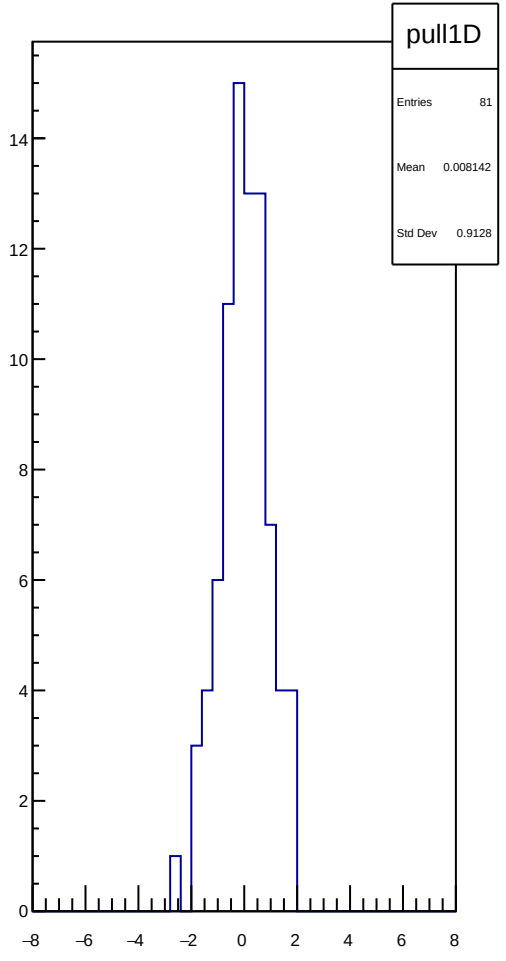

reg_asym_atl_dd_rms vs run
χ² / ndf 2613 / 80
p0 2048 ± 1.651
2150
2100
2050
2000
1950
1900
1850

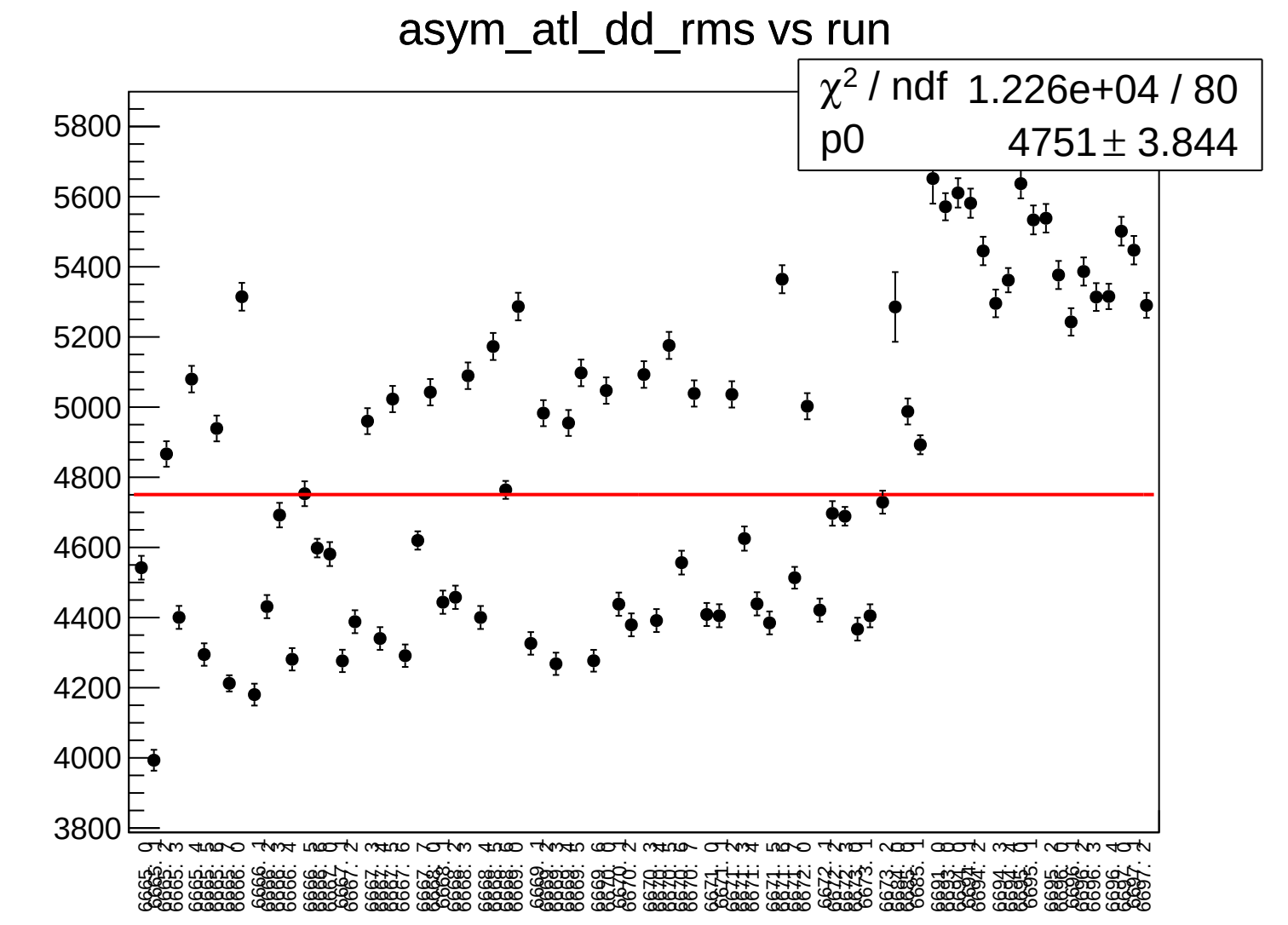

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 56.32 / 80
p0 −1.043e+04 ± 4872
pull
Entries 81
Mean 138.5
Std Dev 51.39

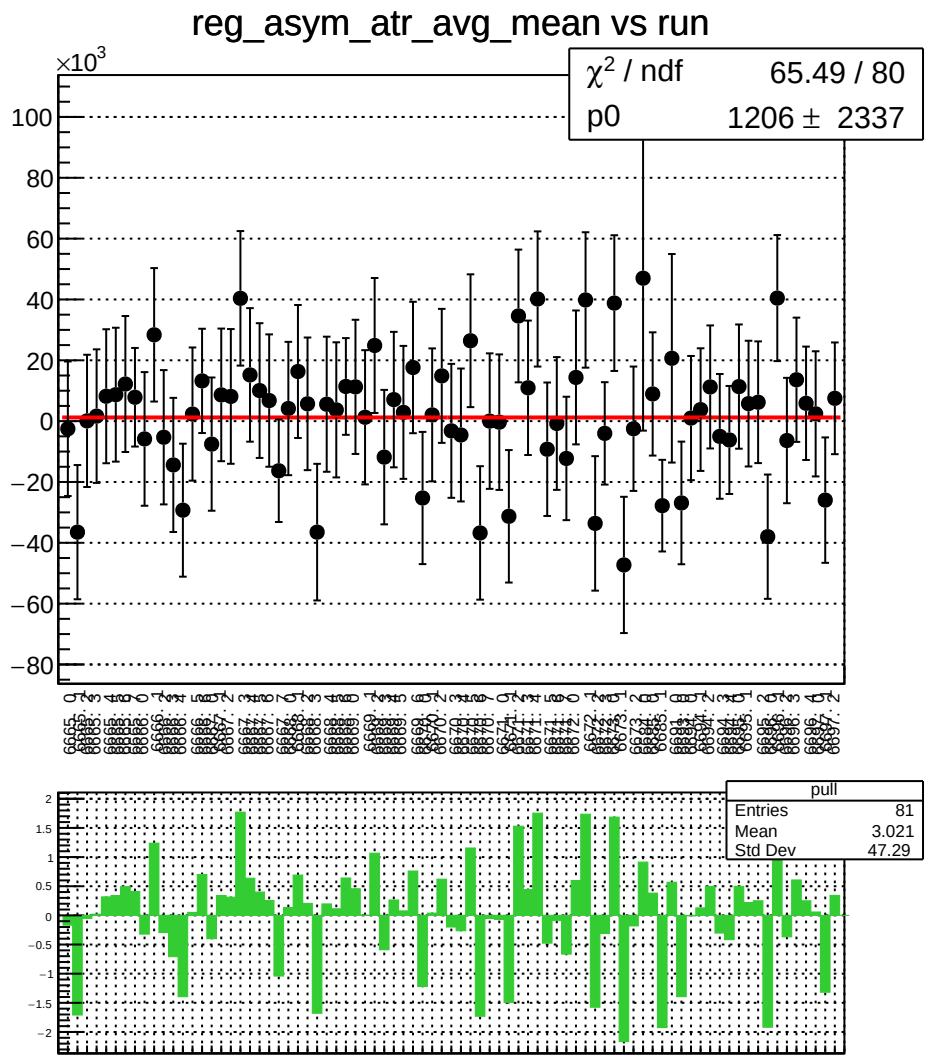

pull1D
Entries 81
Mean 0.00816
Std Dev 0.8338

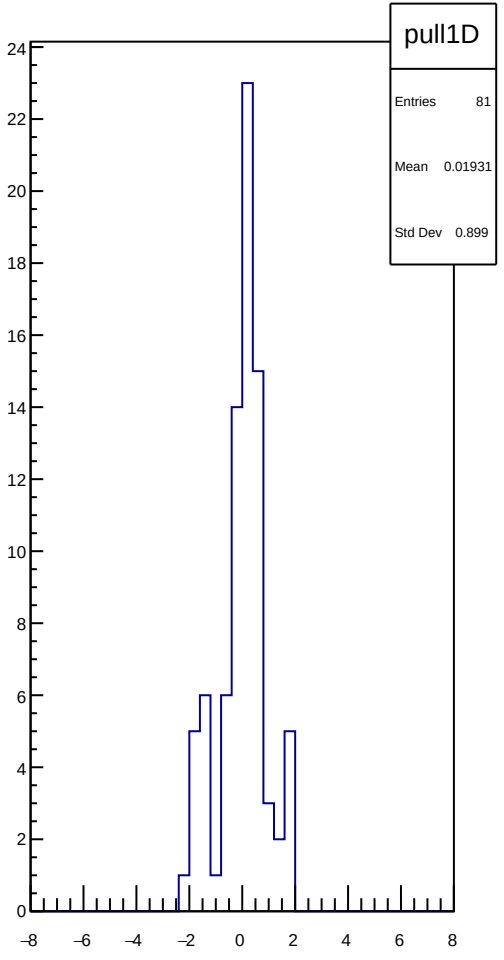

asym_atl_dd_correction_rms vs run
χ² / ndf 1.999e+04 / 80
p0 4247 ± 3.445
5500
5000
4500
4000
3500

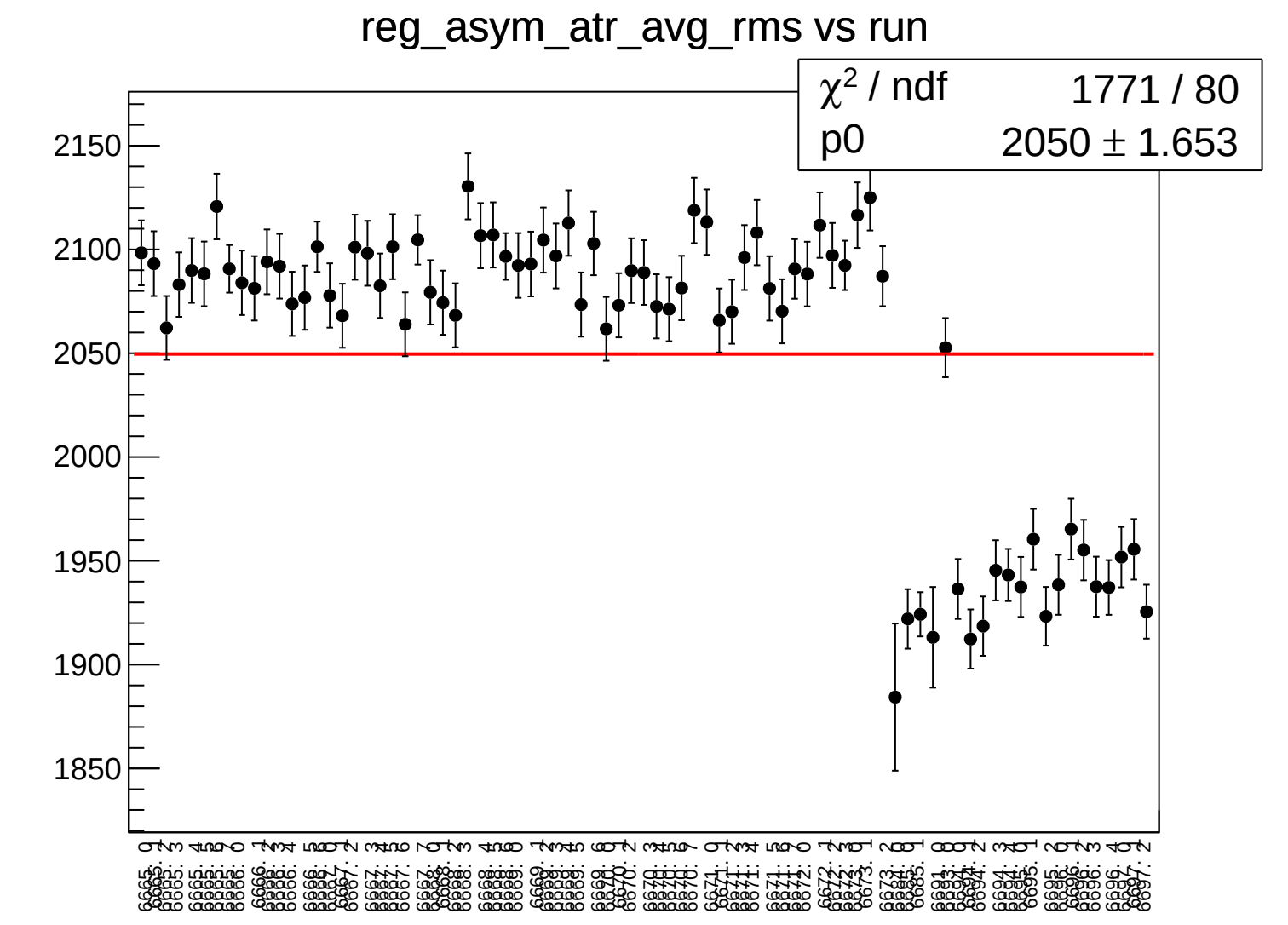

asym_atl_dd_mean vs run
×10^3
χ² / ndf 67.5 / 80
p0 7687 ± 5436
200
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 149.6
Std Dev 146.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

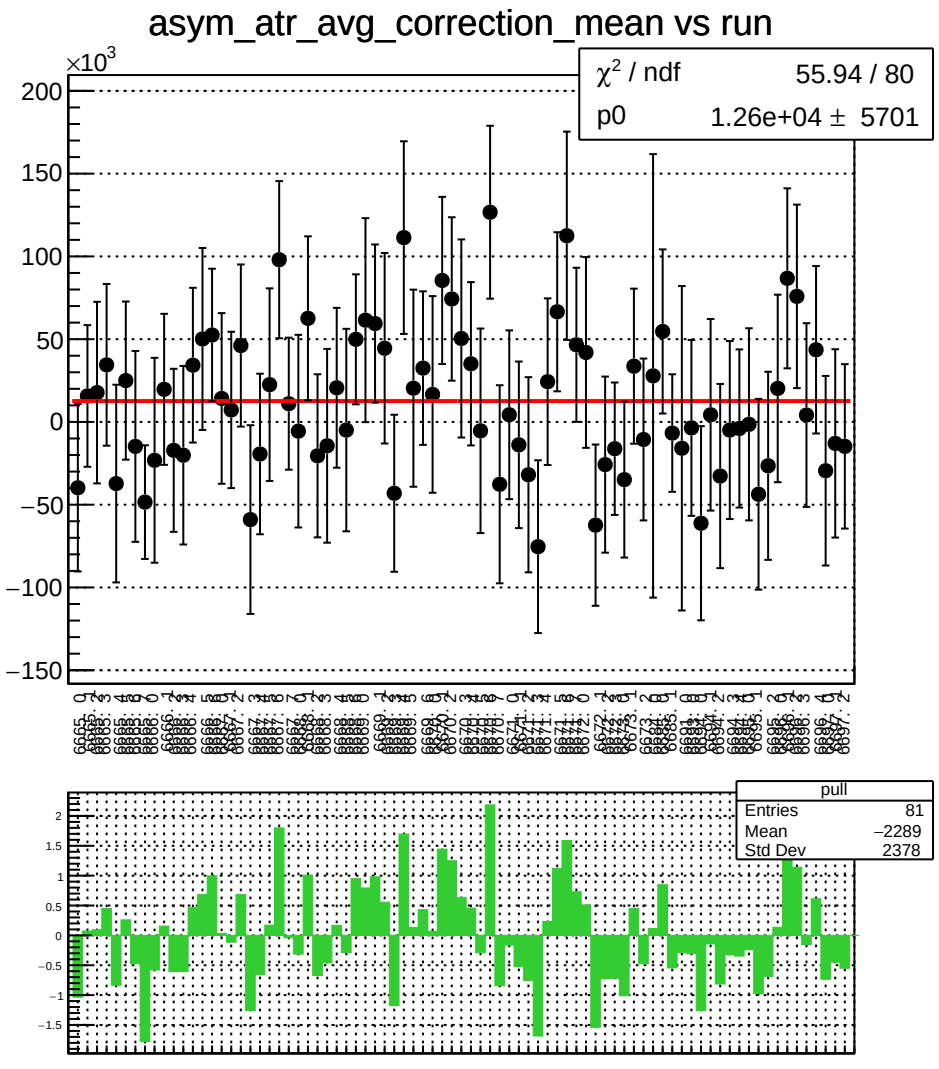

pull1D
Entries 81
Mean 0.008142
Std Dev 0.9128
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

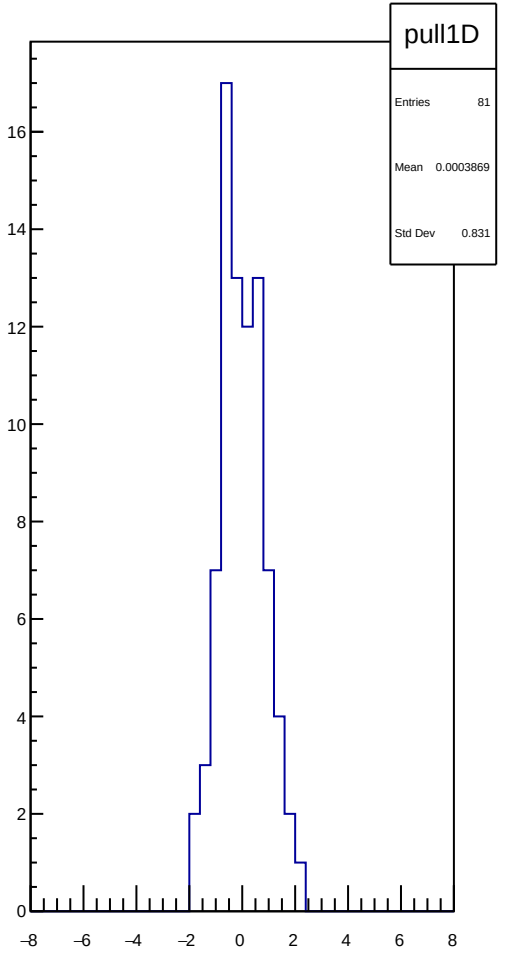

asym_atl_dd_rms vs run
χ² / ndf 1.226e+04 / 80
p0 4751 ± 3.844
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

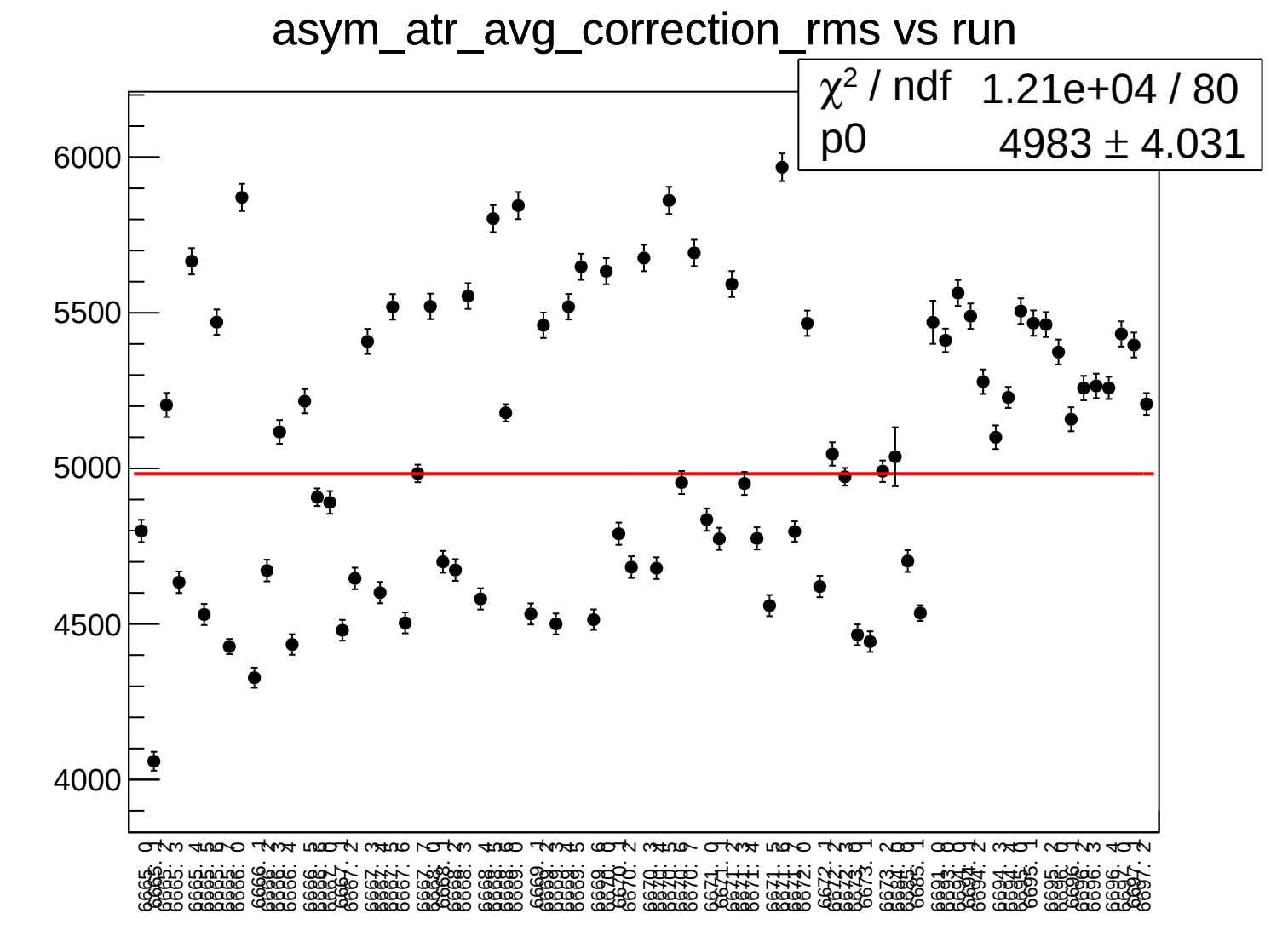

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 65.49 / 80
p0 1206 ± 2337
pull
Entries 81
Mean 3.021
Std Dev 47.29

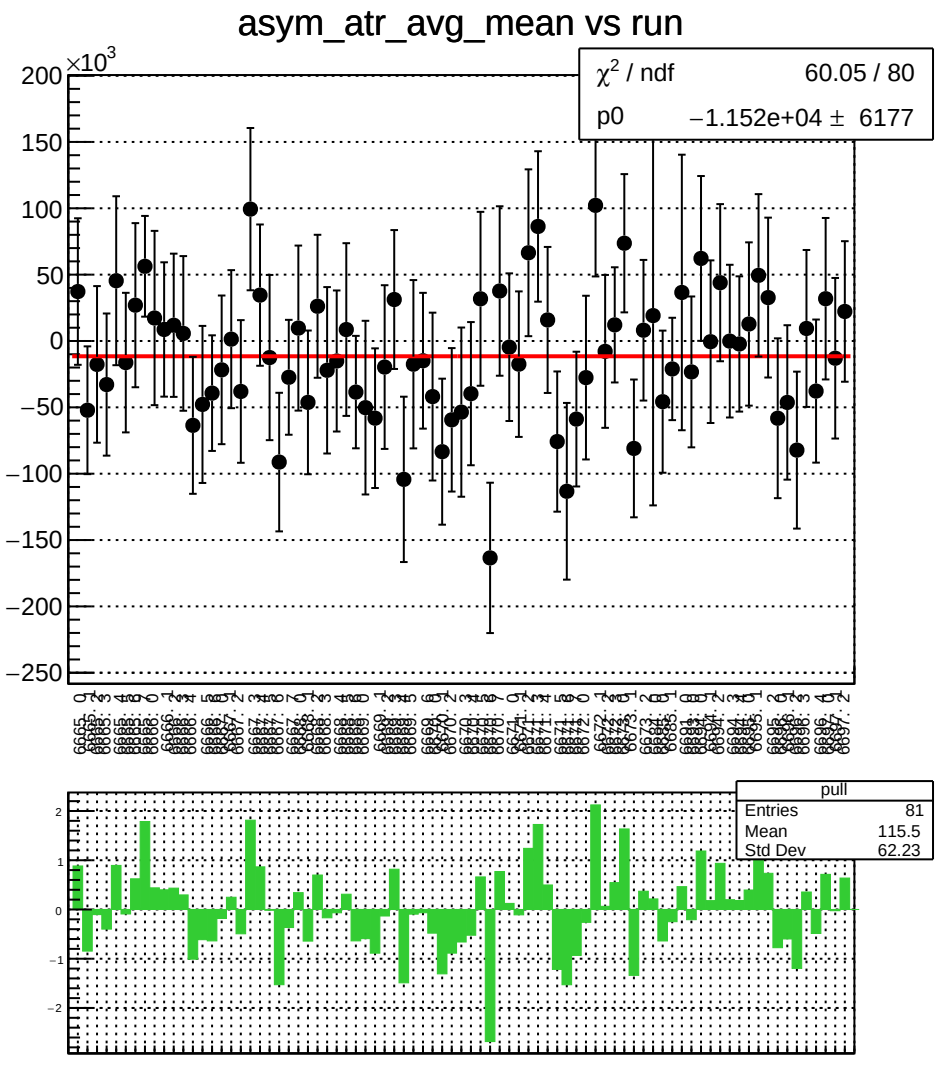

pull1D
Entries 81
Mean 0.01931
Std Dev 0.899

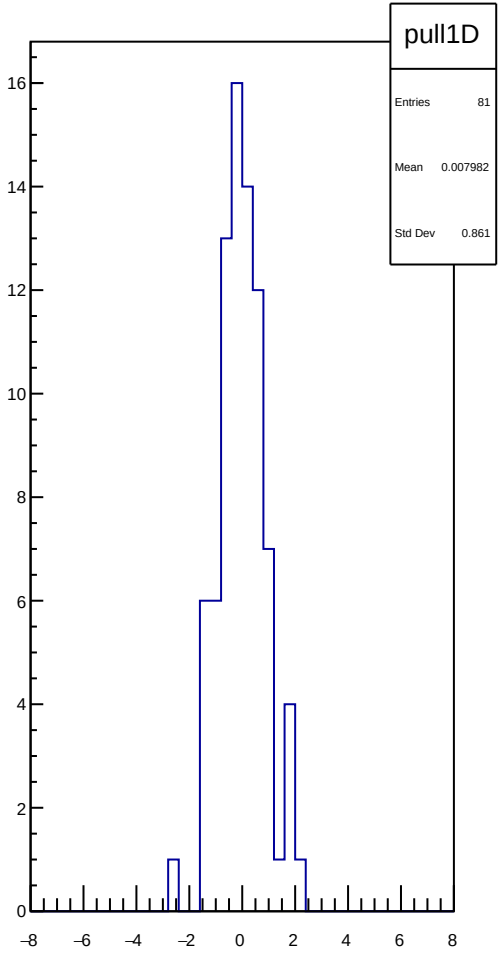

reg_asym_atr_avg_rms vs run
χ^2 / ndf 1771 / 80
p0 2050 ± 1.653
2150
2100
2050
2000
1950
1900
1850

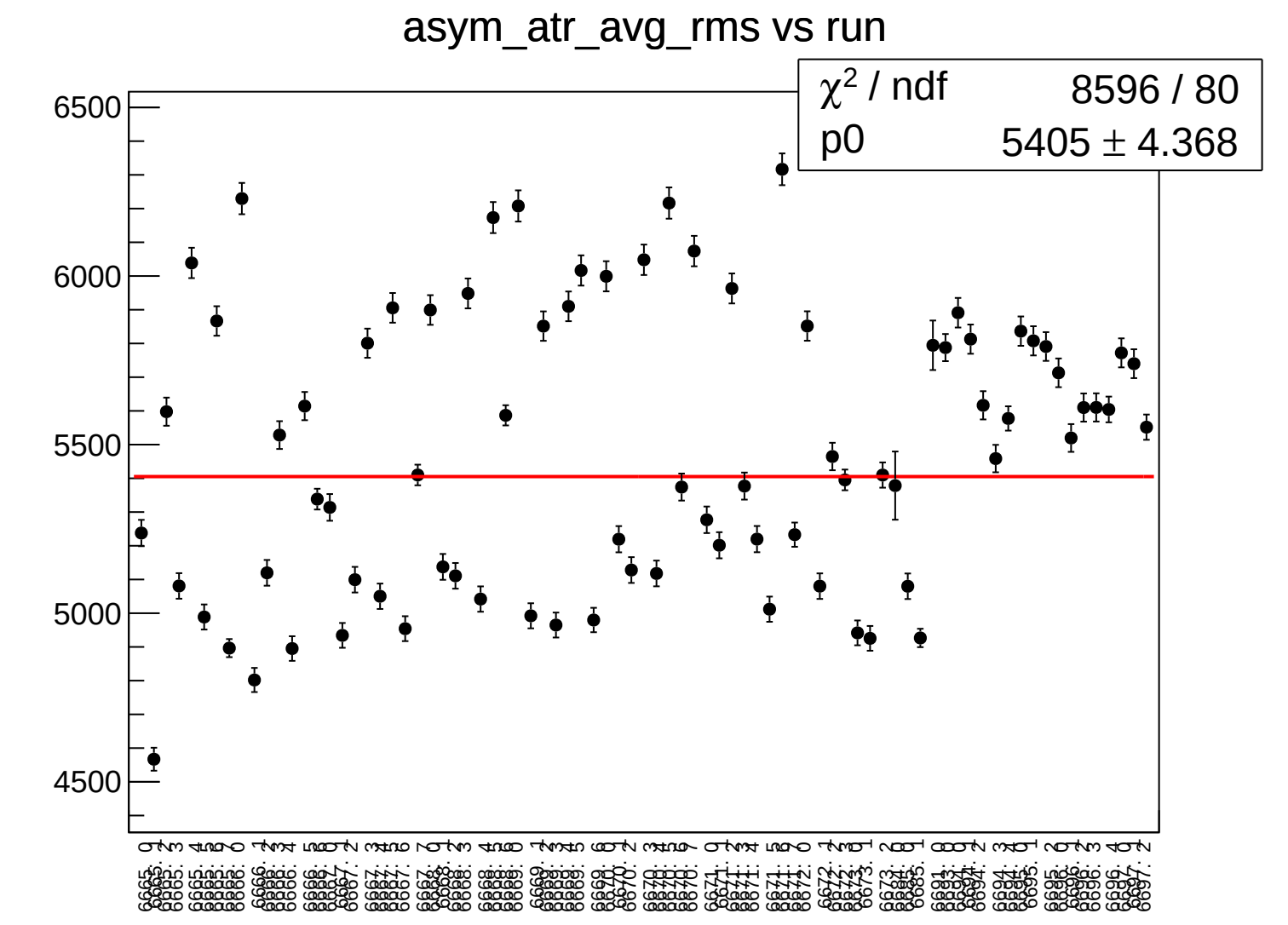

asym_atr_avg_correction_mean vs run
×10^3
χ² / ndf 55.94 / 80
p0 1.26e+04 ± 5701
pull
Entries 81
Mean −2289
Std Dev 2378

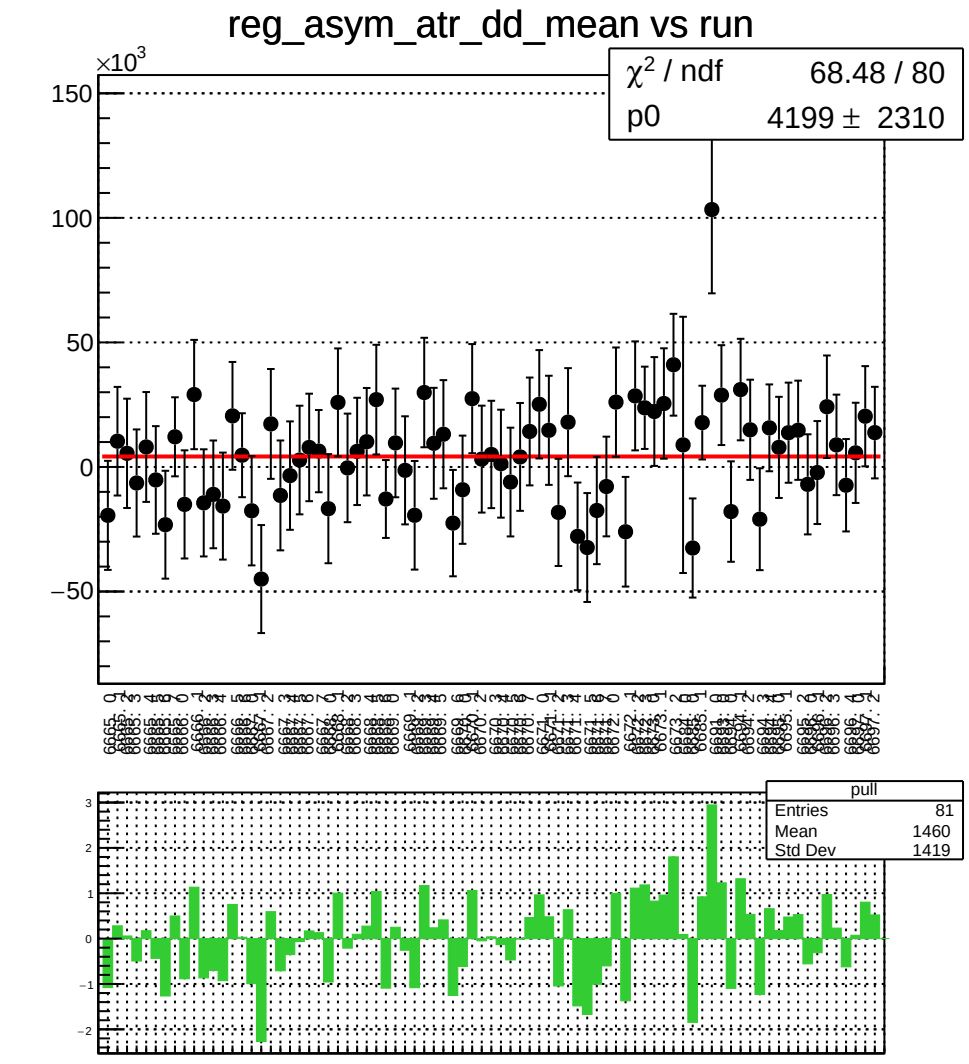

pull1D
Entries 81
Mean 0.0003869
Std Dev 0.831

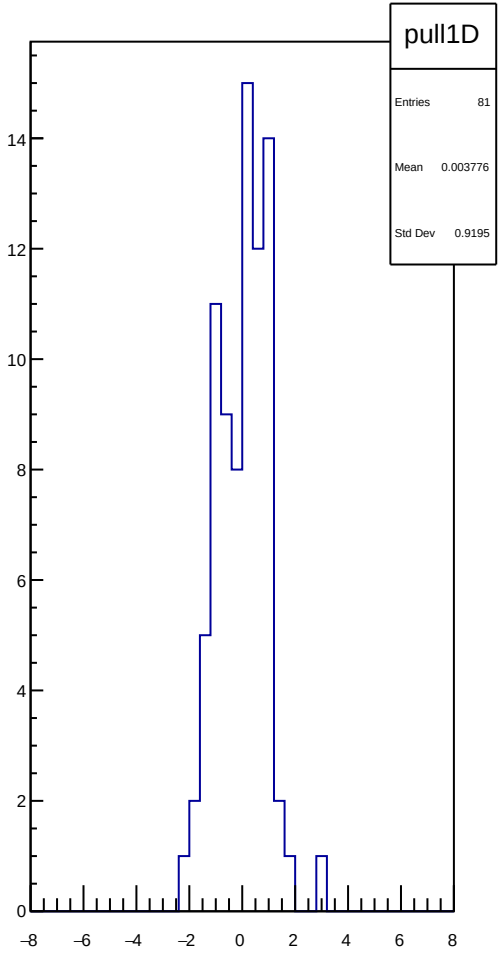

asym_atr_avg_correction_rms vs run
χ² / ndf 1.21e+04 / 80
p0 4983 ± 4.031
6000
5500
5000
4500
4000

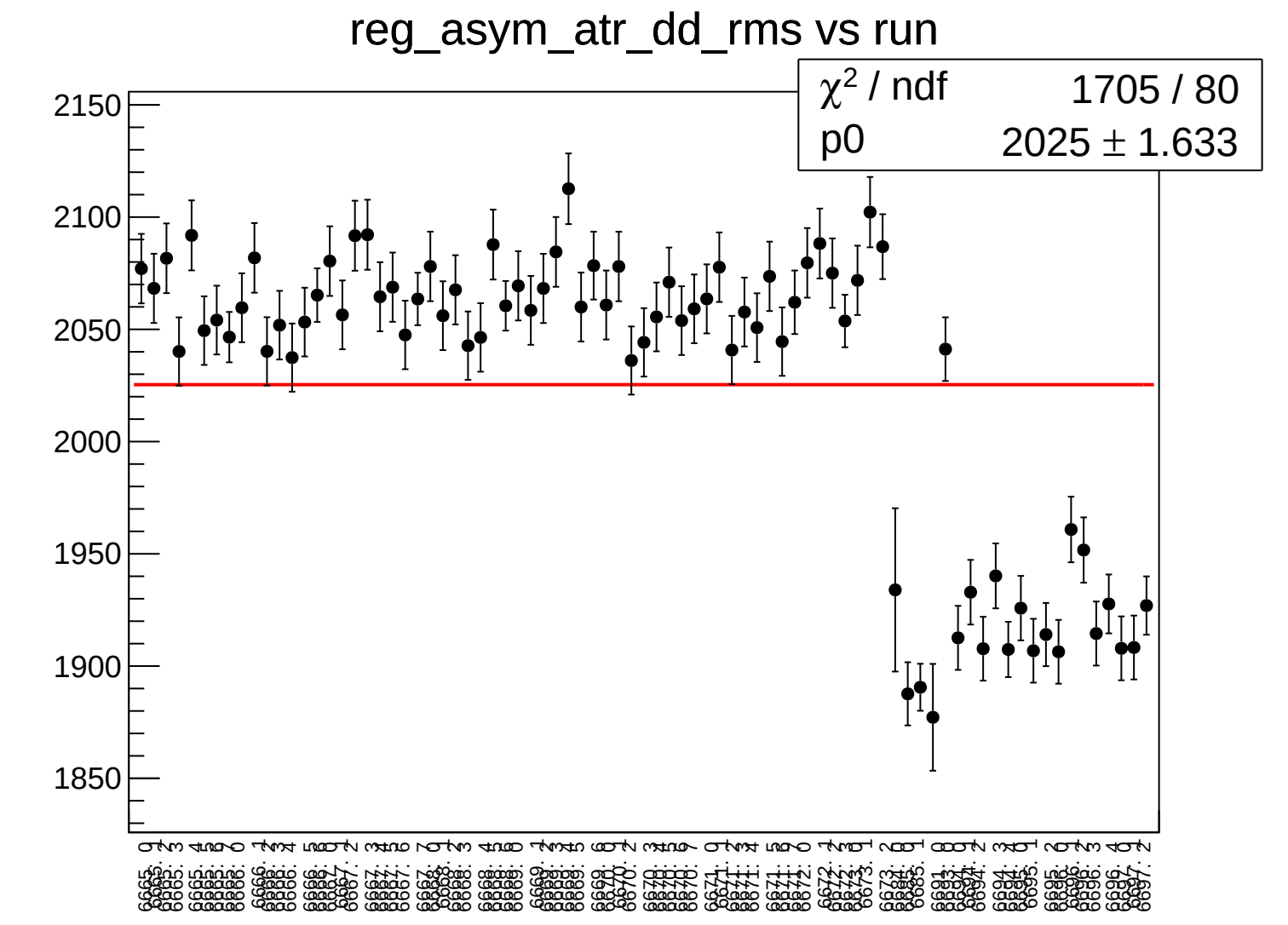

asym_atr_avg_mean vs run
×10^3
χ² / ndf 60.05 / 80
p0 −1.152e+04 ± 6177
pull
Entries 81
Mean 115.5
Std Dev 62.23

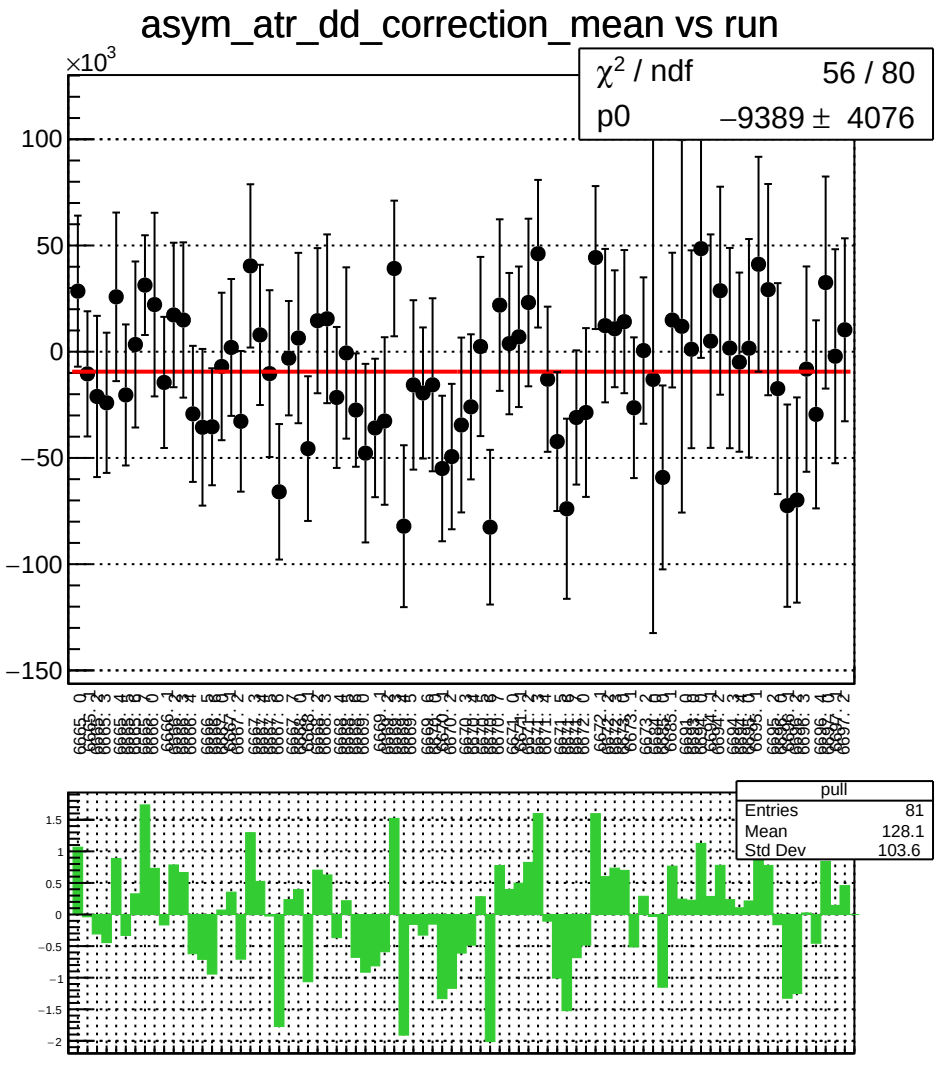

pull1D
Entries 81
Mean 0.007982
Std Dev 0.861

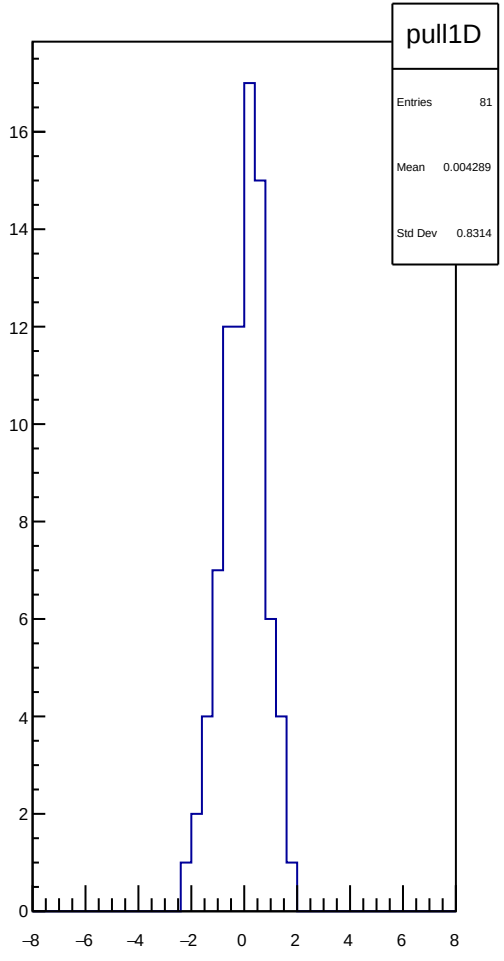

asym_atr_avg_rms vs run
χ² / ndf 8596 / 80
p0 5405 ± 4.368
6500
6000
5500
5000
4500

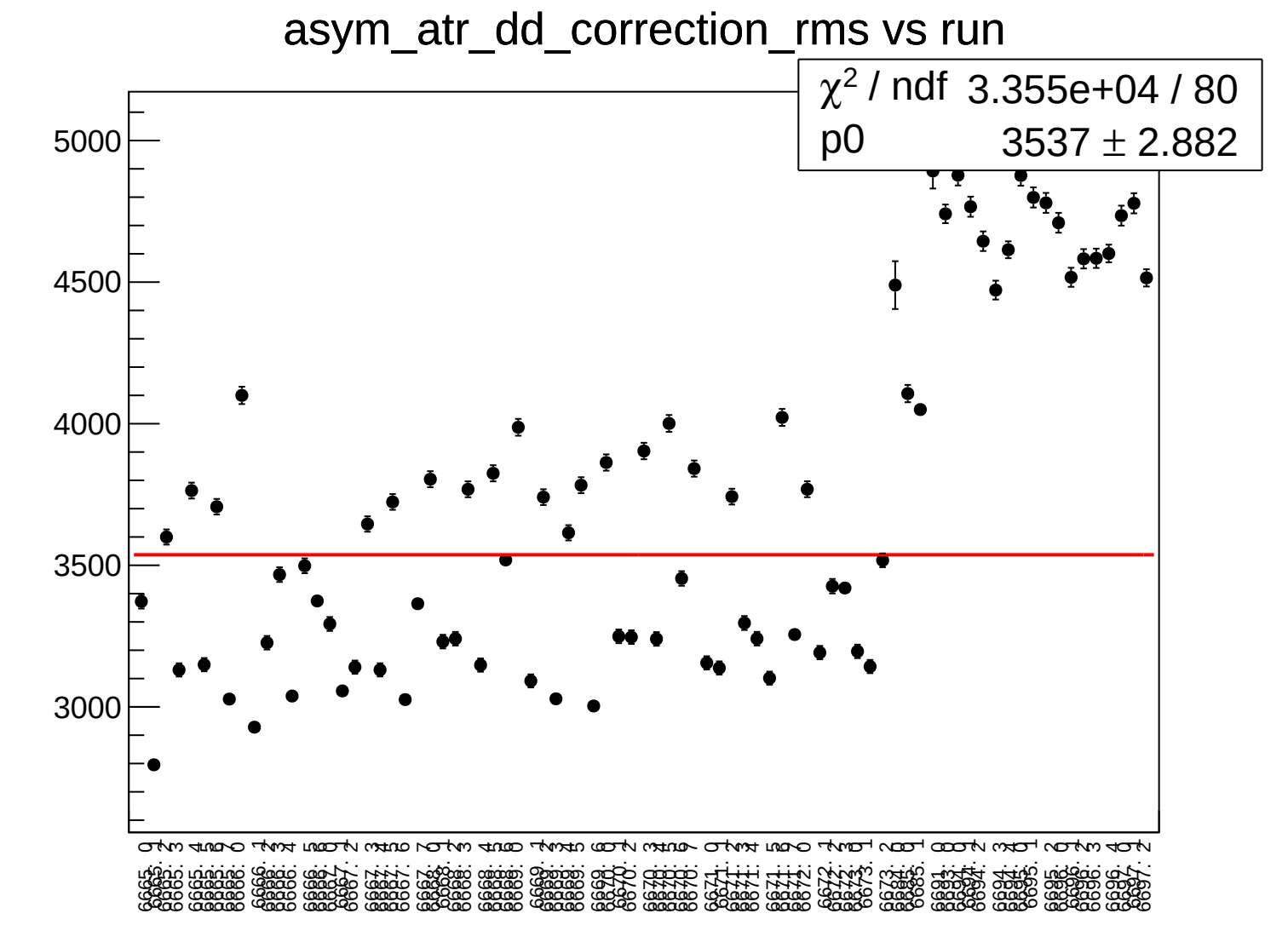

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 68.48 / 80
p0 4199 ± 2310
150
100
50
0
−50
pull
Entries 81
Mean 1460
Std Dev 1419
3
2
1
0
−1
−2

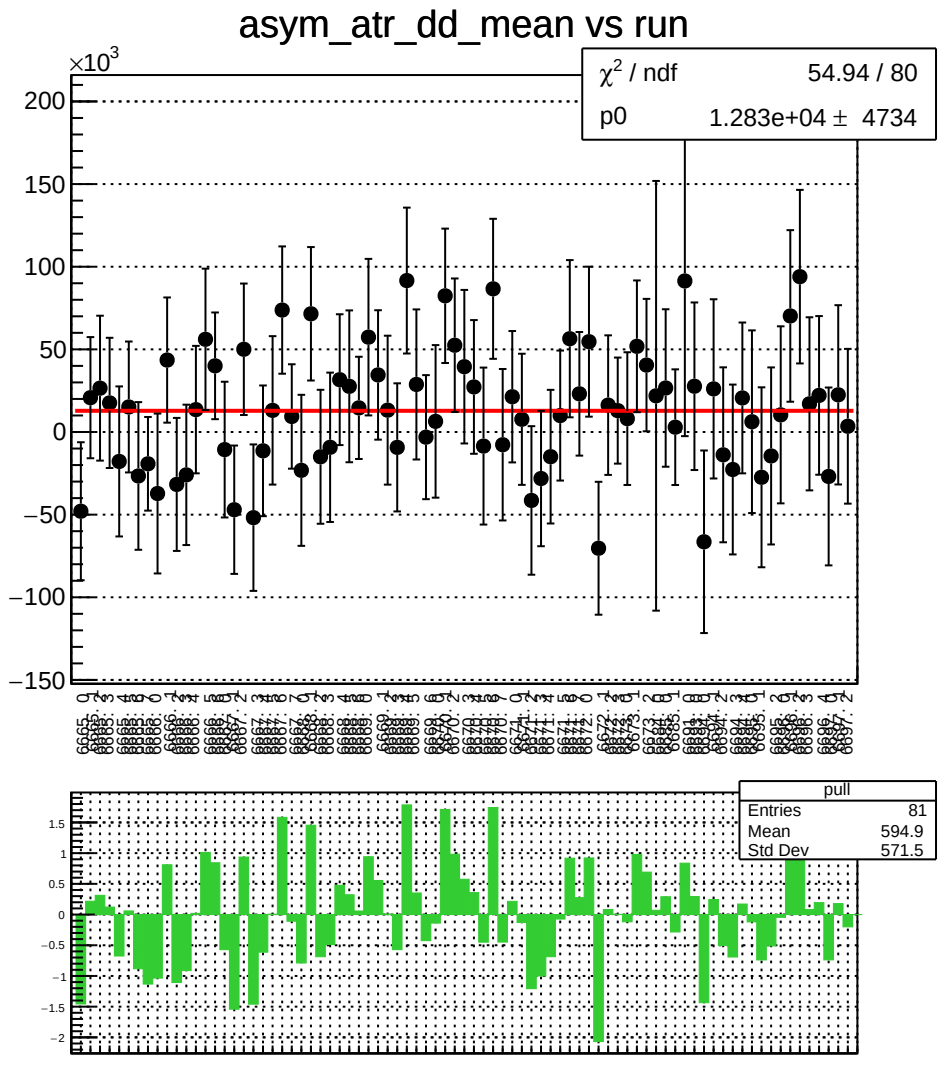

pull1D
Entries 81
Mean 0.003776
Std Dev 0.9195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

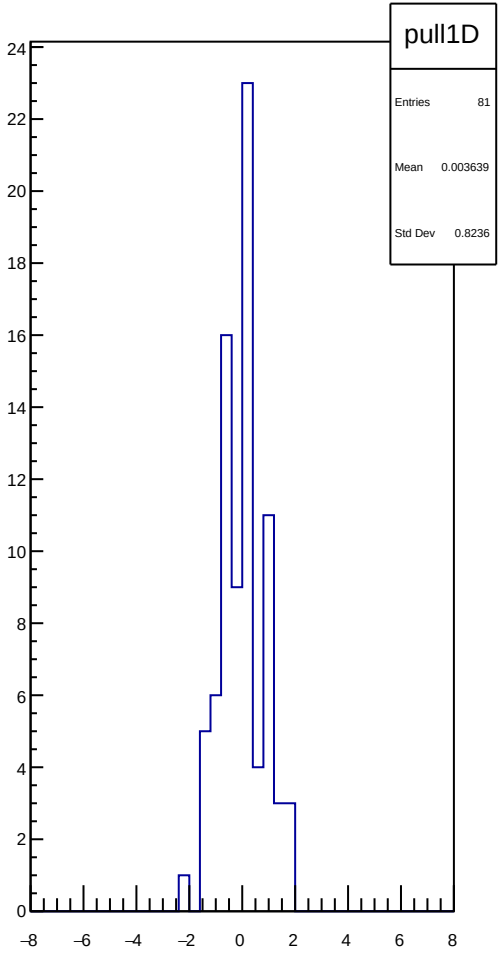

reg_asym_atr_dd_rms vs run
χ² / ndf 1705 / 80
p0 2025 ± 1.633
2150
2100
2050
2000
1950
1900
1850

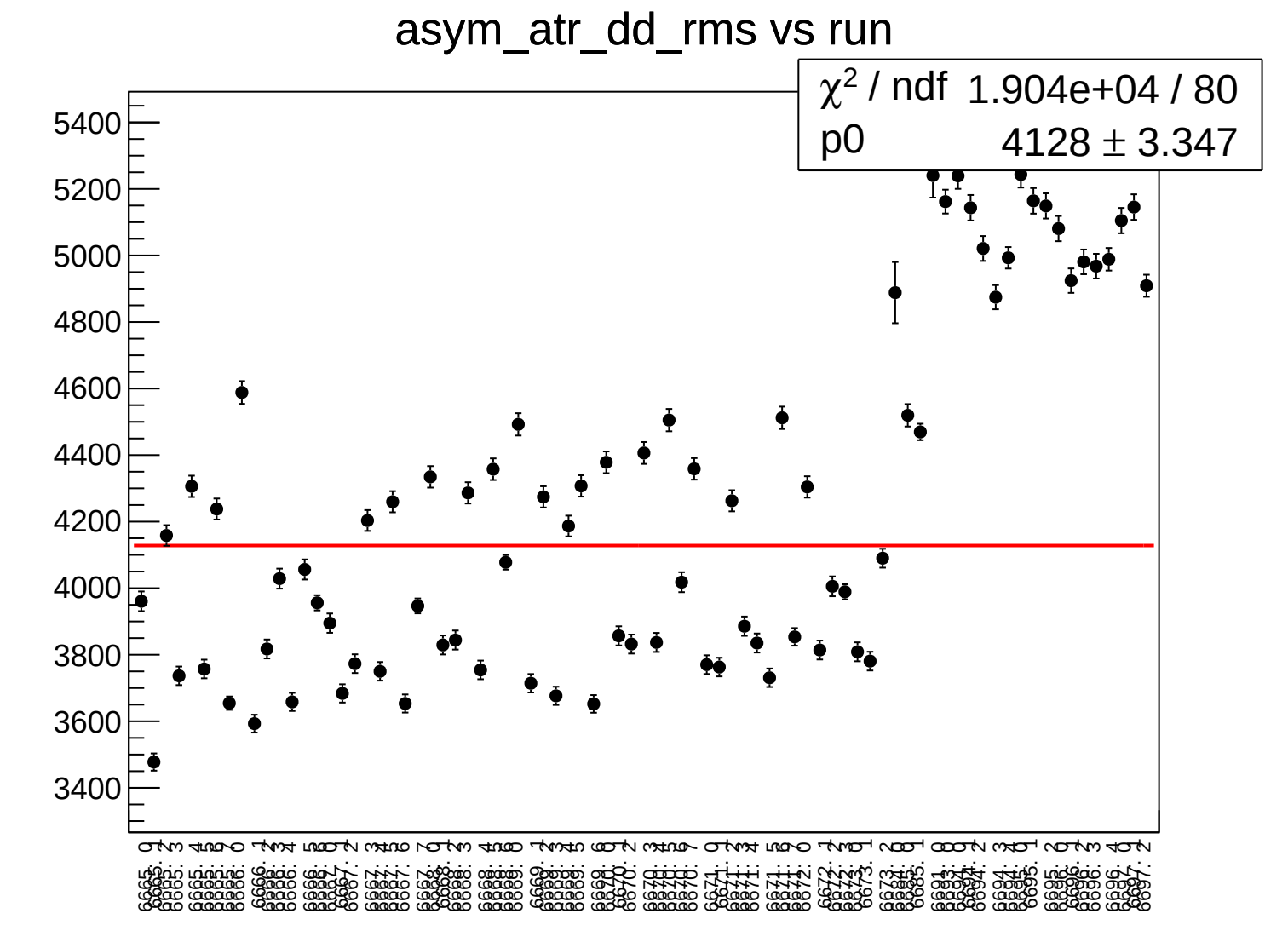

asym_atr_dd_correction_mean vs run
×10^3
χ² / ndf 56 / 80
p0 −9389 ± 4076
100
50
0
−50
−100
−150
pull
Entries 81
Mean 128.1
Std Dev 103.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

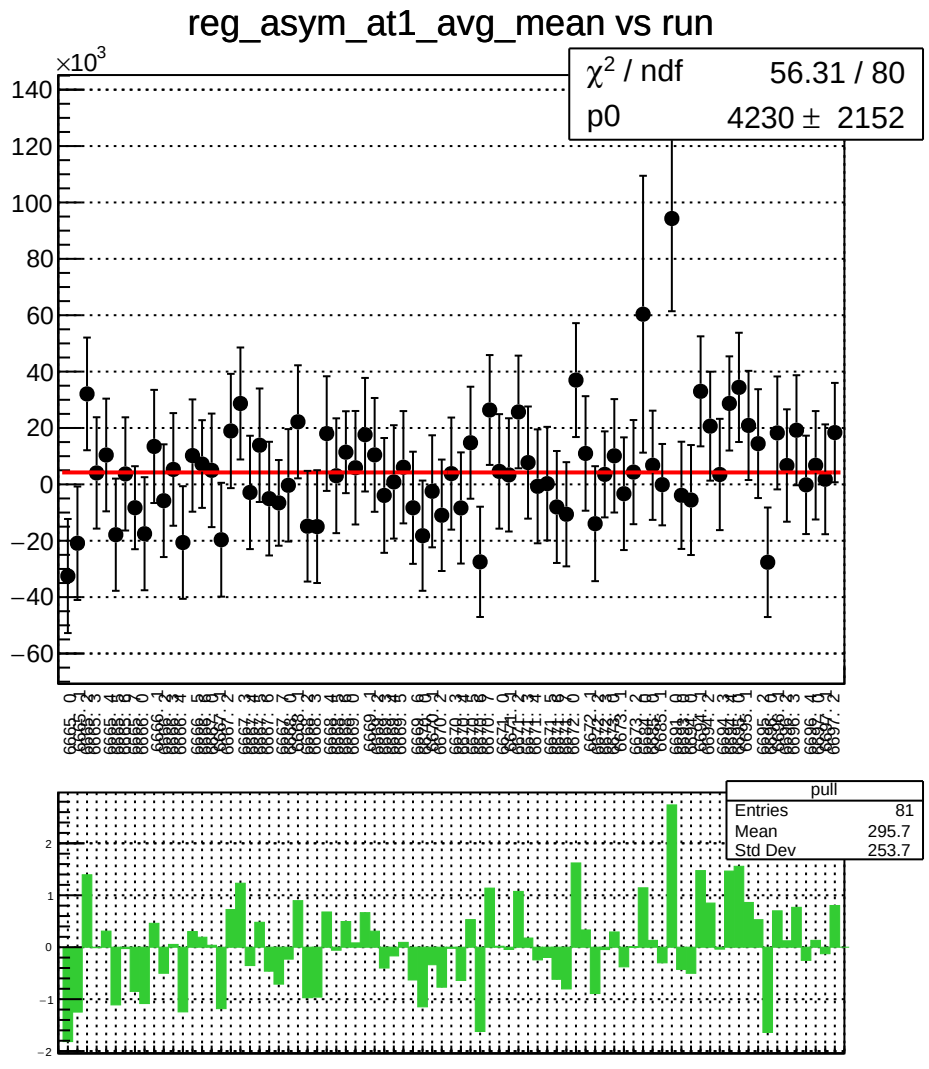

pull1D
Entries 81
Mean 0.004289
Std Dev 0.8314
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

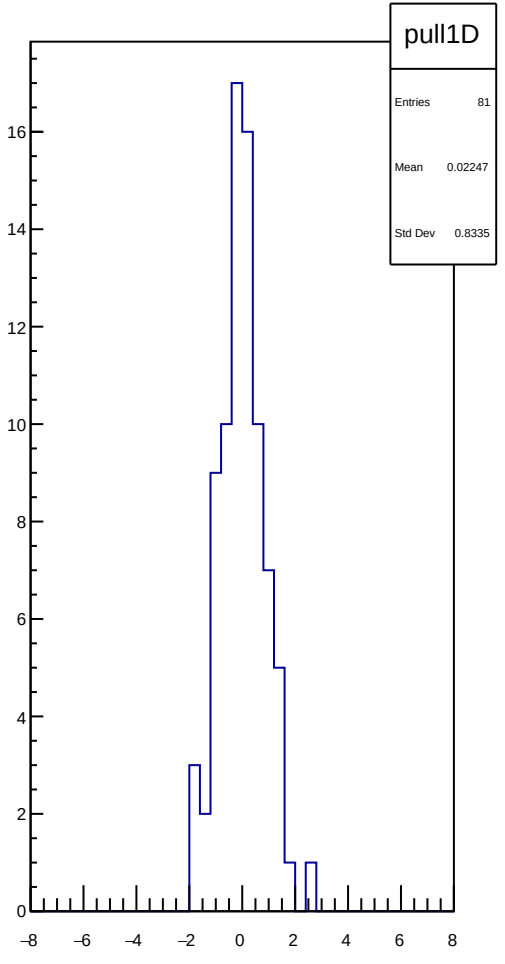

asym_atr_dd_correction_rms vs run
χ² / ndf 3.355e+04 / 80
p0 3537 ± 2.882
5000
4500
4000
3500
3000

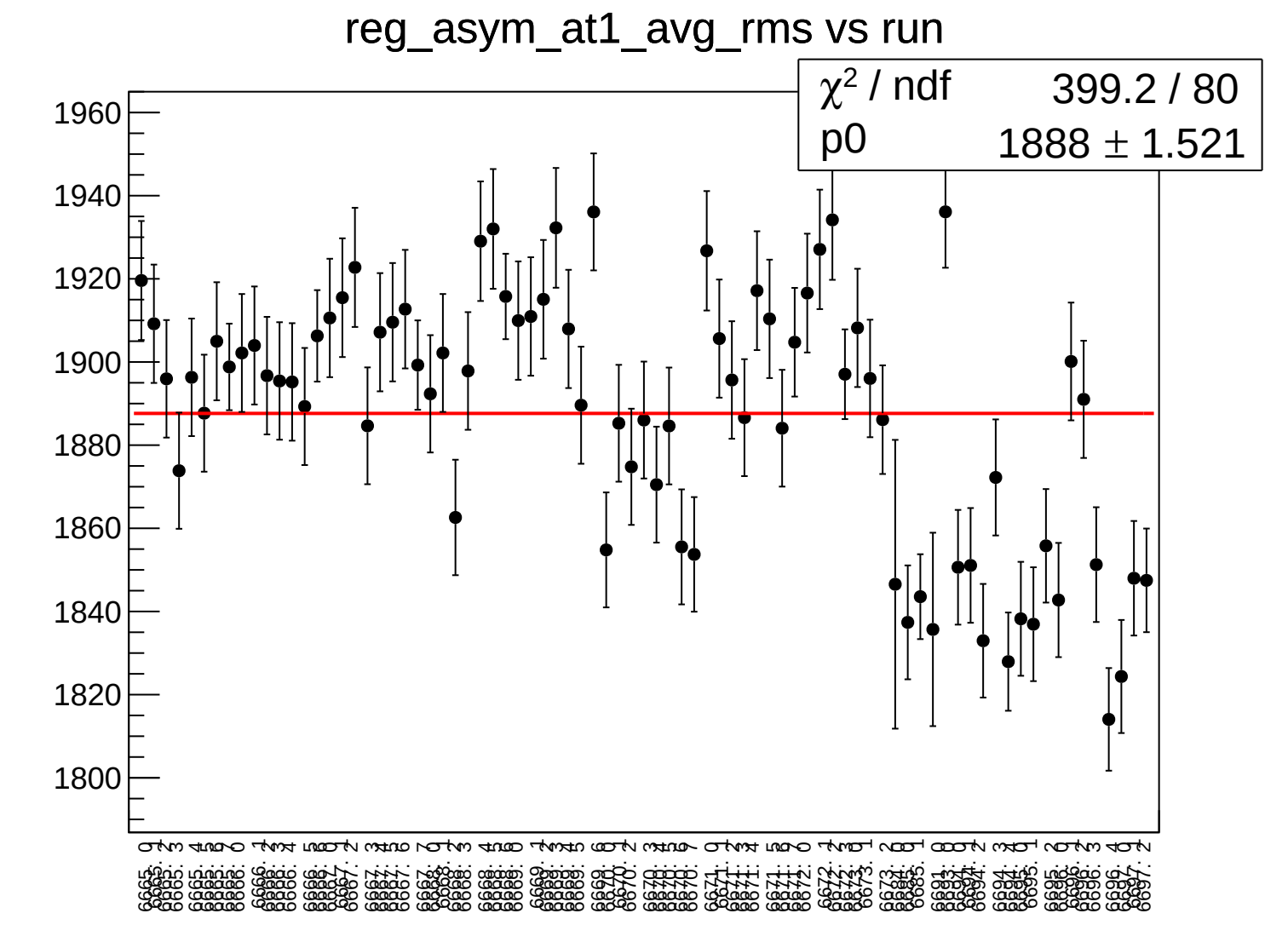

asym_atr_dd_mean vs run
×10^3
χ² / ndf 54.94 / 80
p0 1.283e+04 ± 4734
pull
Entries 81
Mean 594.9
Std Dev 571.5

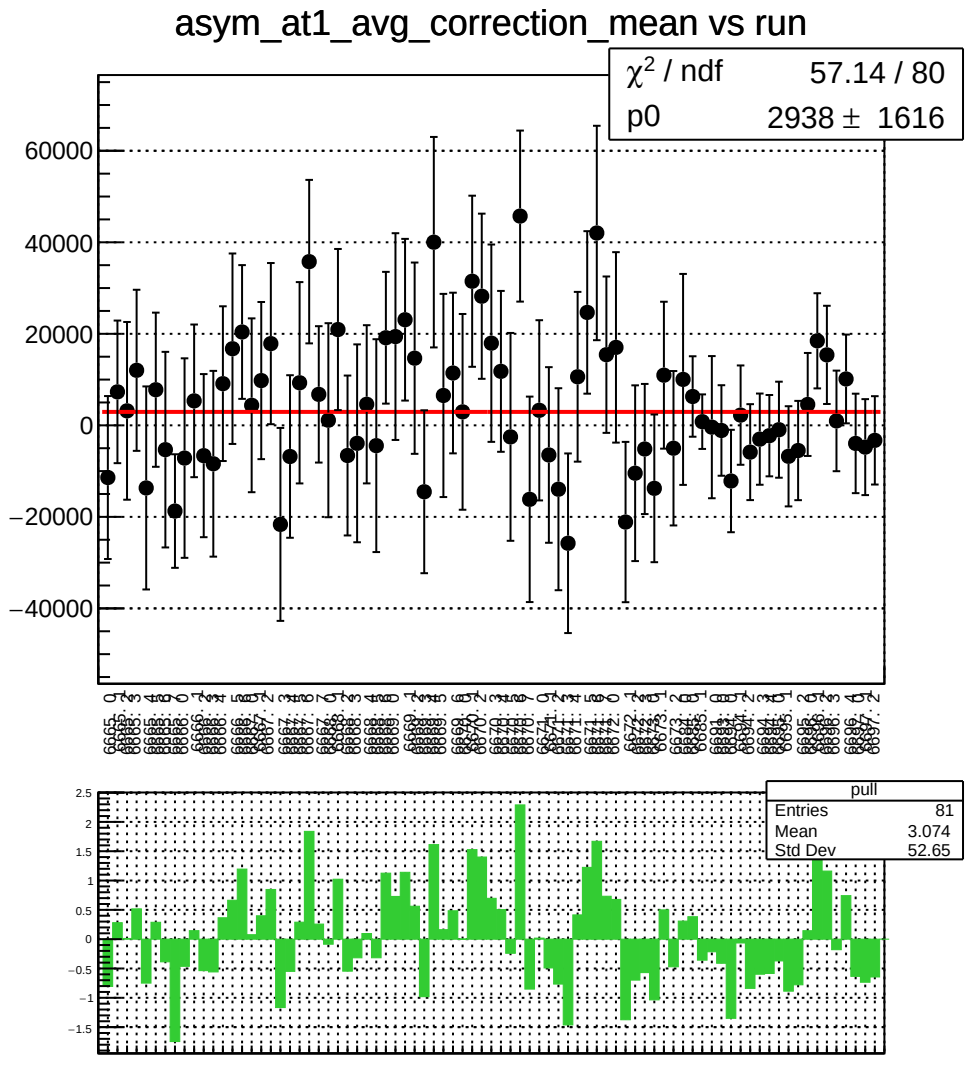

pull1D
Entries 81
Mean 0.003639
Std Dev 0.8236

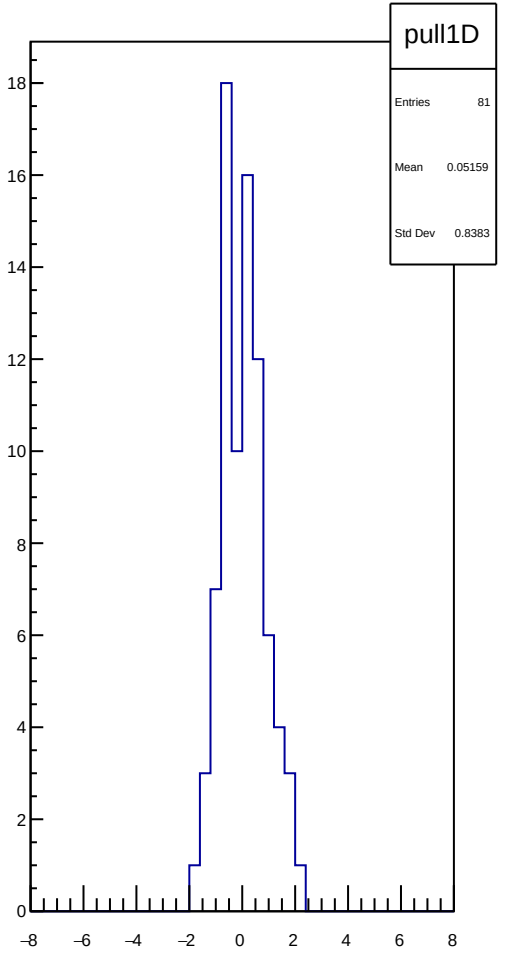

asym_atr_dd_rms vs run
χ^2 / ndf 1.904e+04 / 80
p0 4128 ± 3.347
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

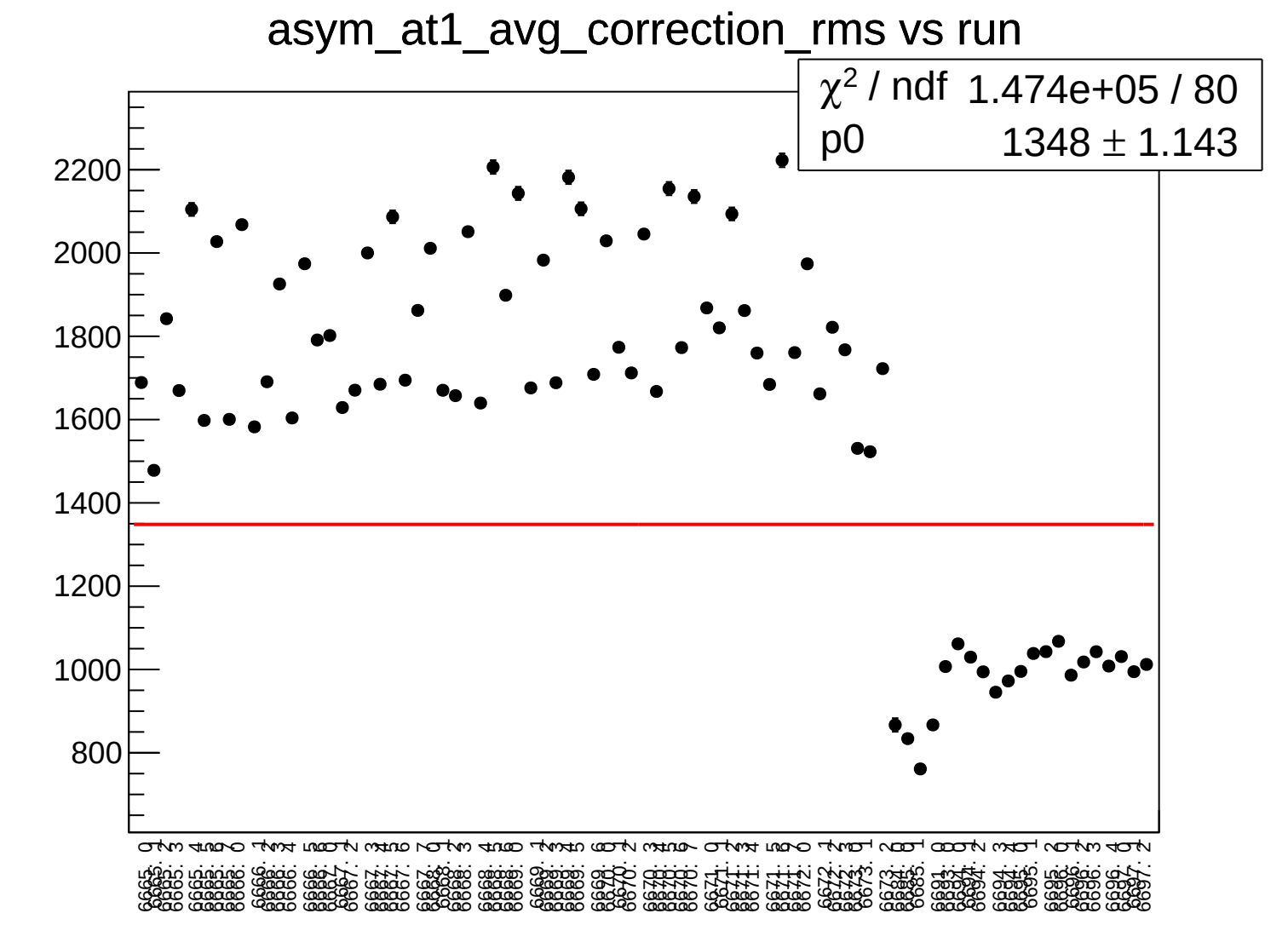

reg_asym_at1_avg_mean vs run
×10^3
χ^2 / ndf 56.31 / 80
p0 4230 ± 2152
pull
Entries 81
Mean 295.7
Std Dev 253.7

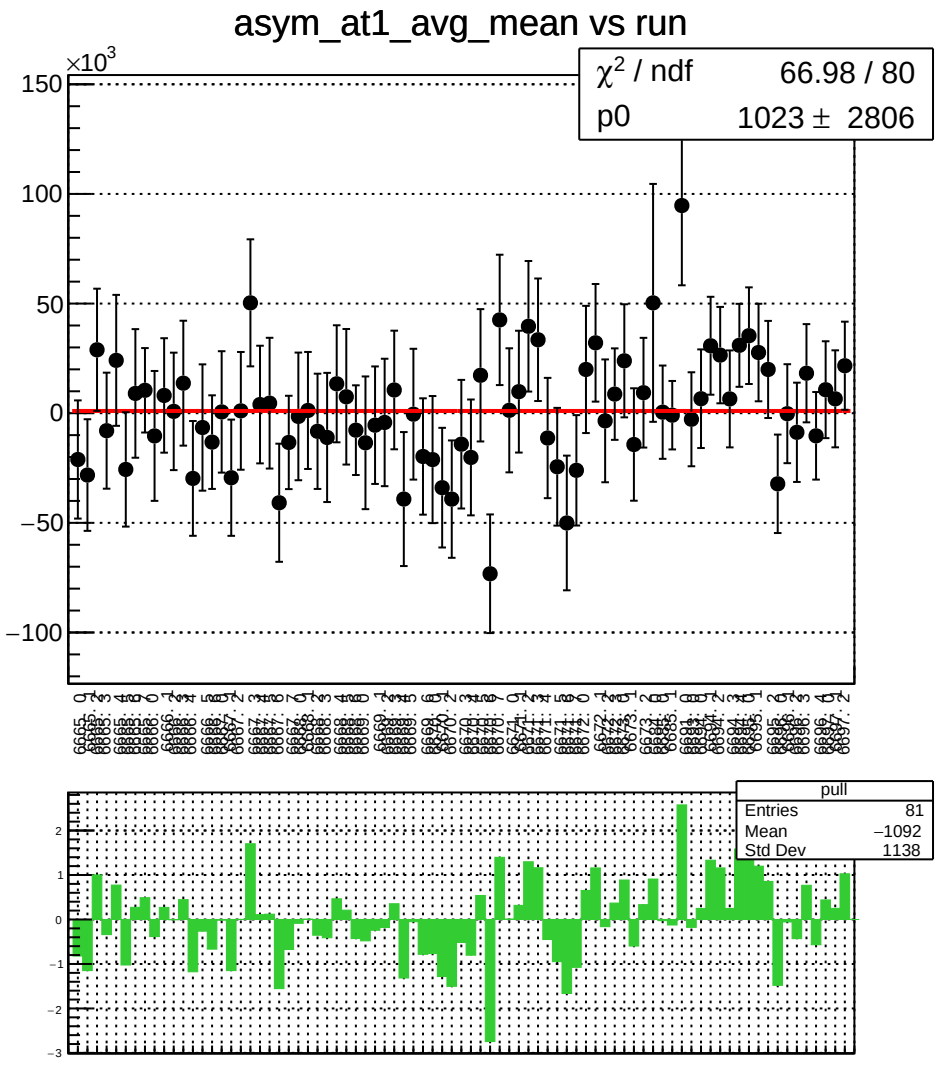

pull1D
Entries 81
Mean 0.02247
Std Dev 0.8335

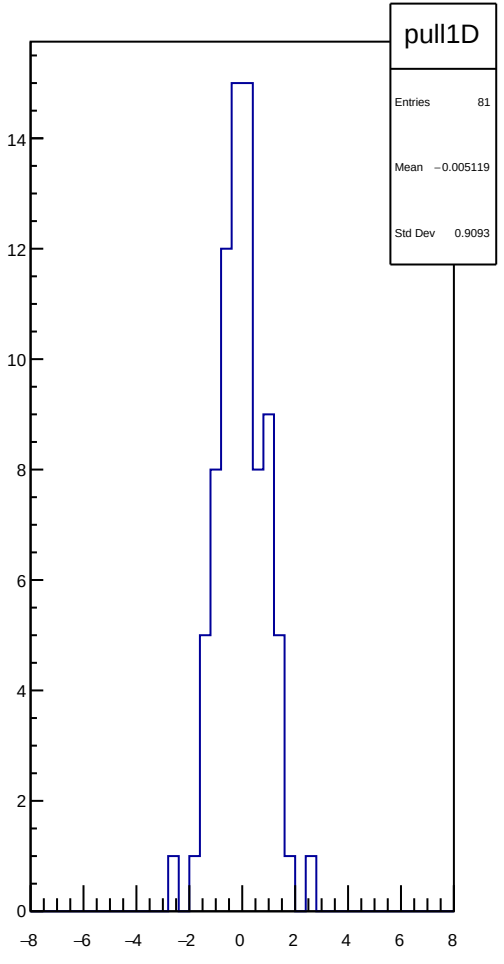

reg_asym_at1_avg_rms vs run
χ² / ndf 399.2 / 80
p0 1888 ± 1.521
1960
1940
1920
1900
1880
1860
1840
1820
1800

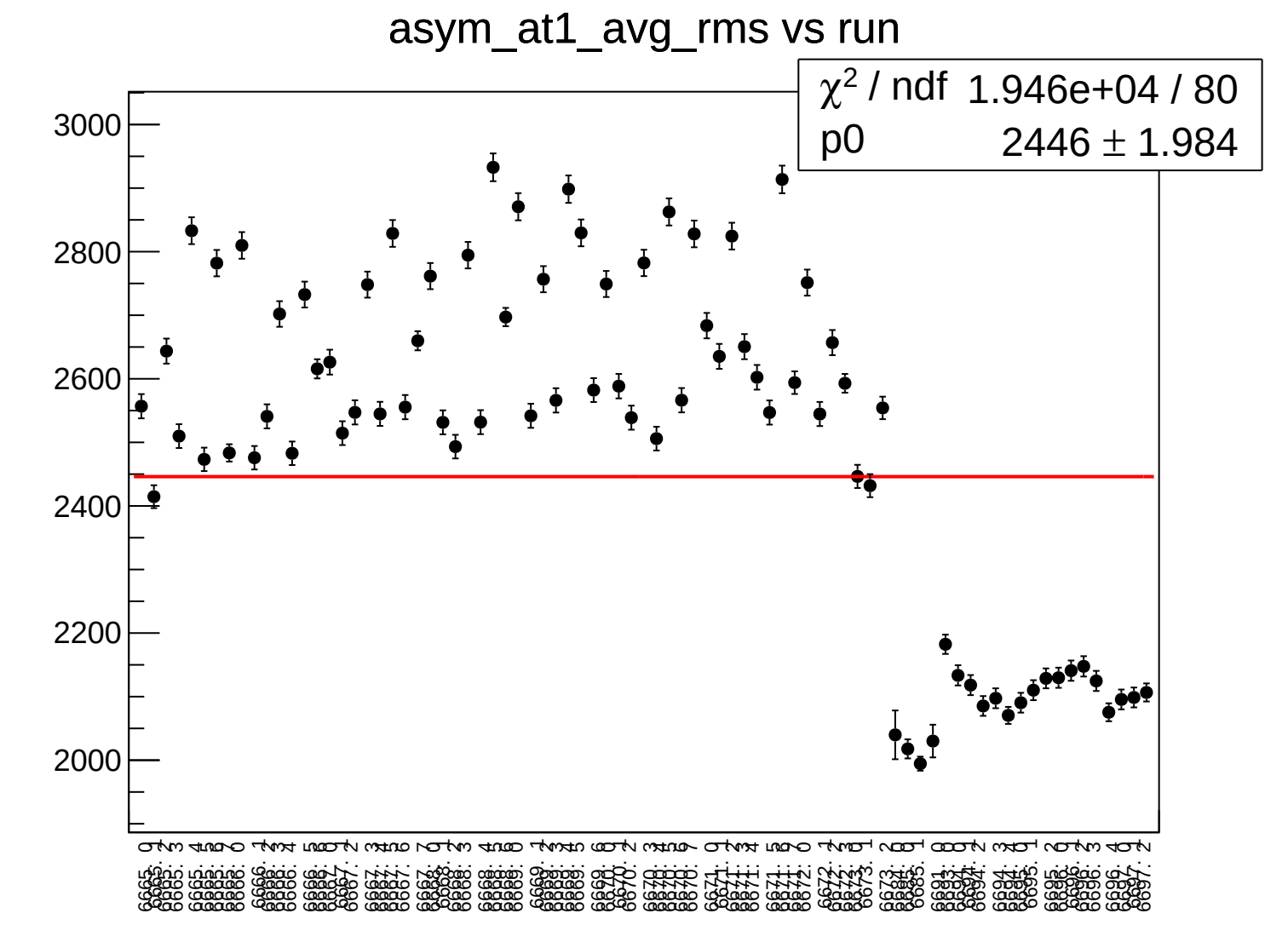

asym_at1_avg_correction_mean vs run
χ² / ndf 57.14 / 80
p0 2938 ± 1616
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 3.074
Std Dev 52.65
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

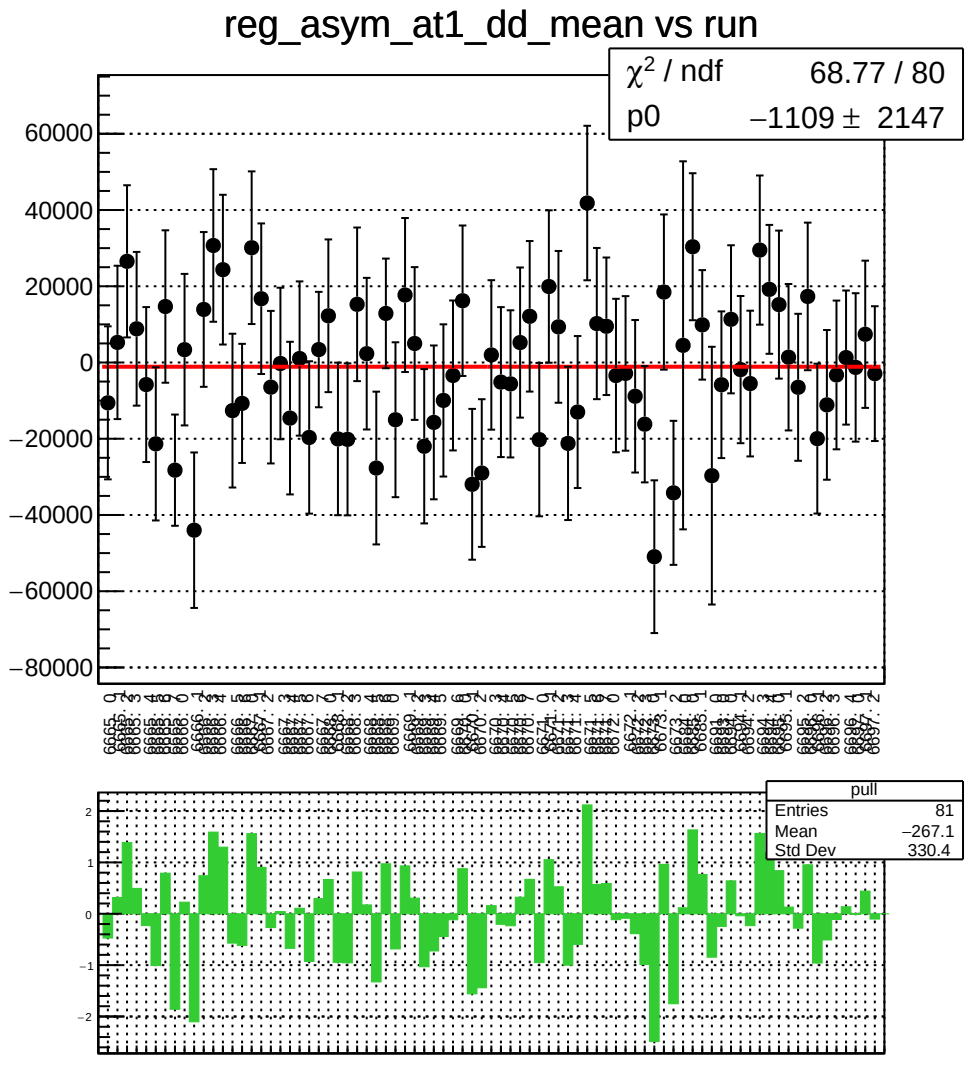

pull1D
Entries 81
Mean 0.05159
Std Dev 0.8383
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

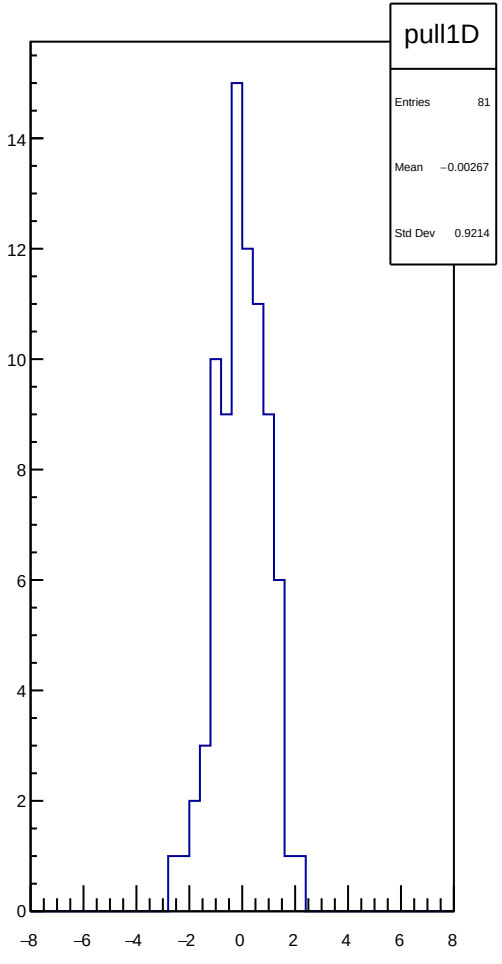

asym_at1_avg_correction_rms vs run
χ² / ndf 1.474e+05 / 80
p0 1348 ± 1.143
2200
2000
1800
1600
1400
1200
1000
800

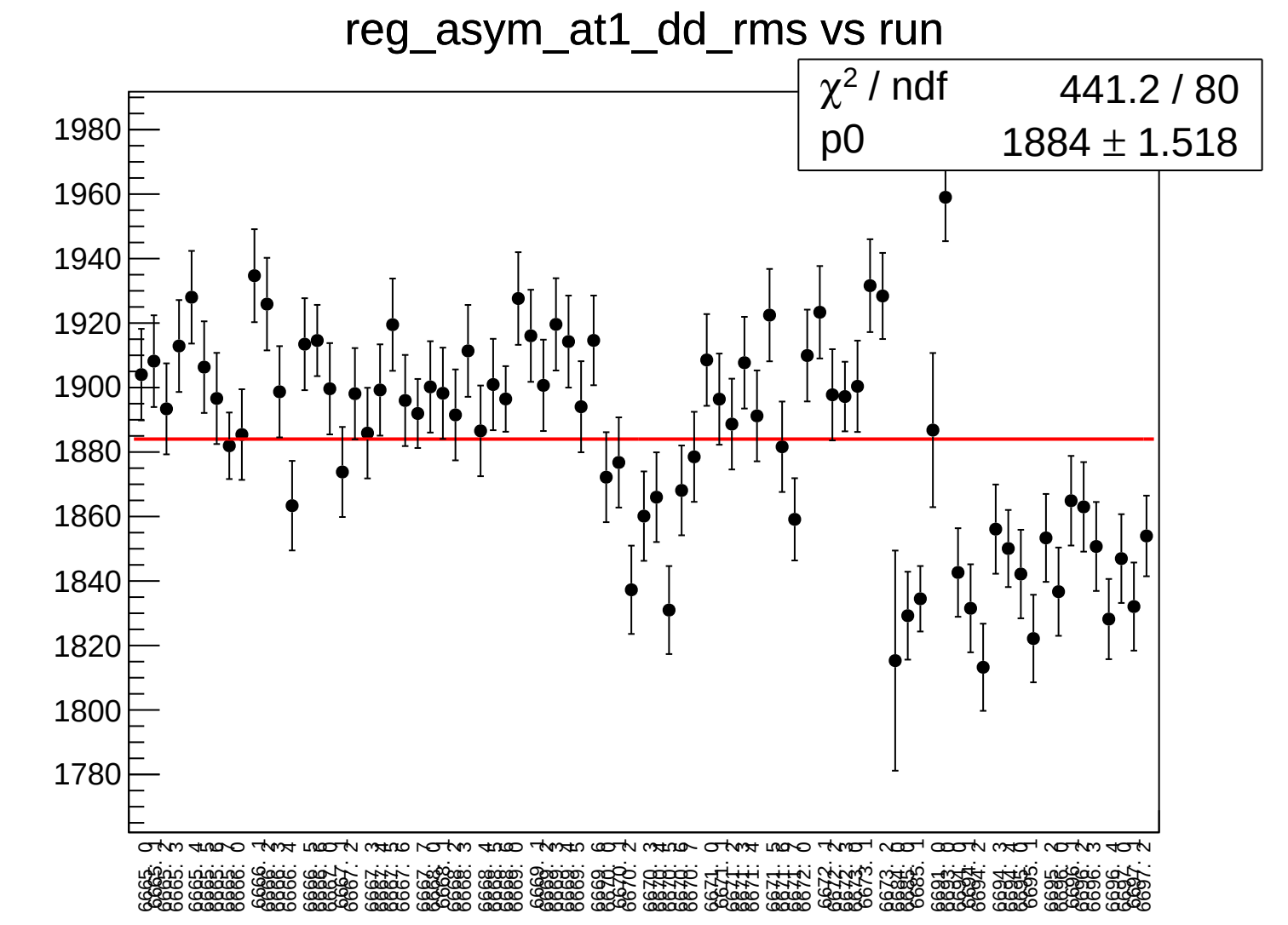

asym_at1_avg_mean vs run
×10^3
χ² / ndf 66.98 / 80
p0 1023 ± 2806
150
100
50
0
−50
−100
pull
Entries 81
Mean −1092
Std Dev 1138
2
1
0
−1
−2
−3

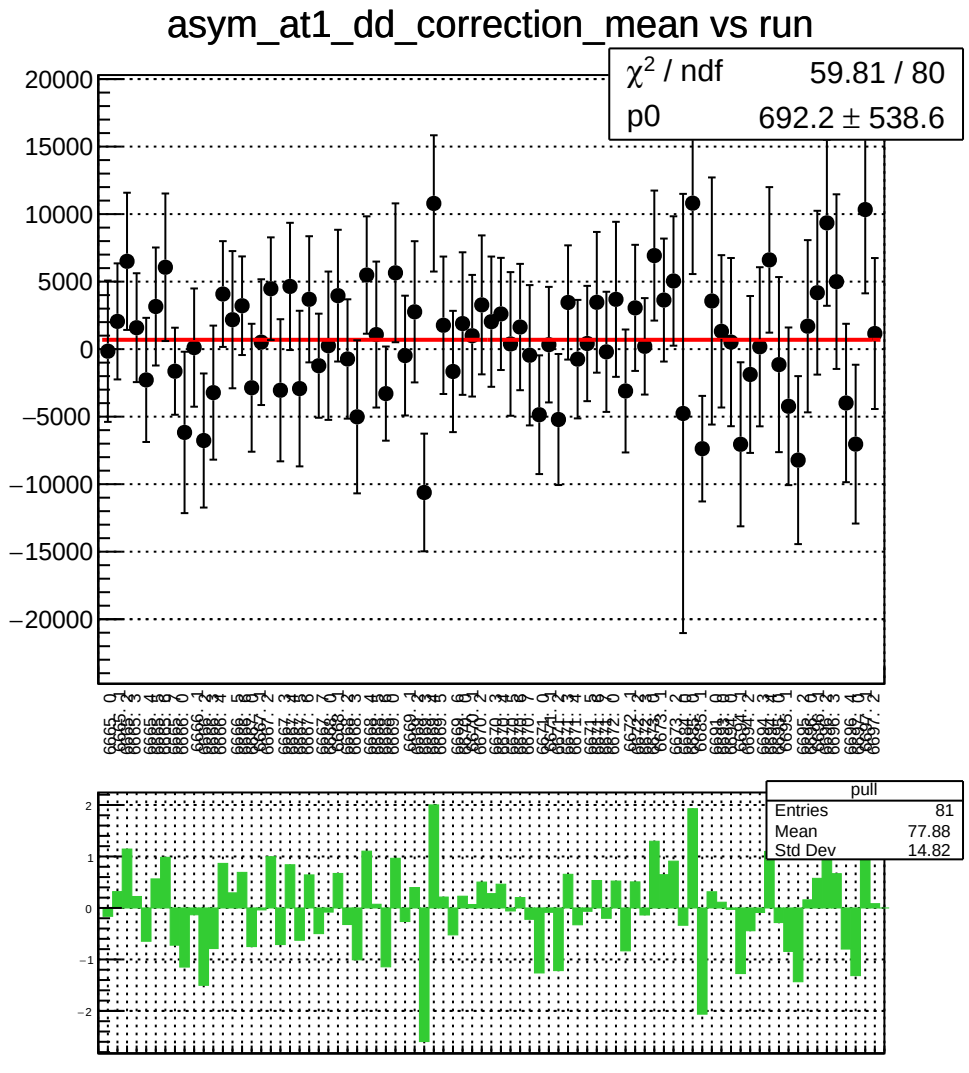

pull1D
Entries 81
Mean −0.005119
Std Dev 0.9093
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

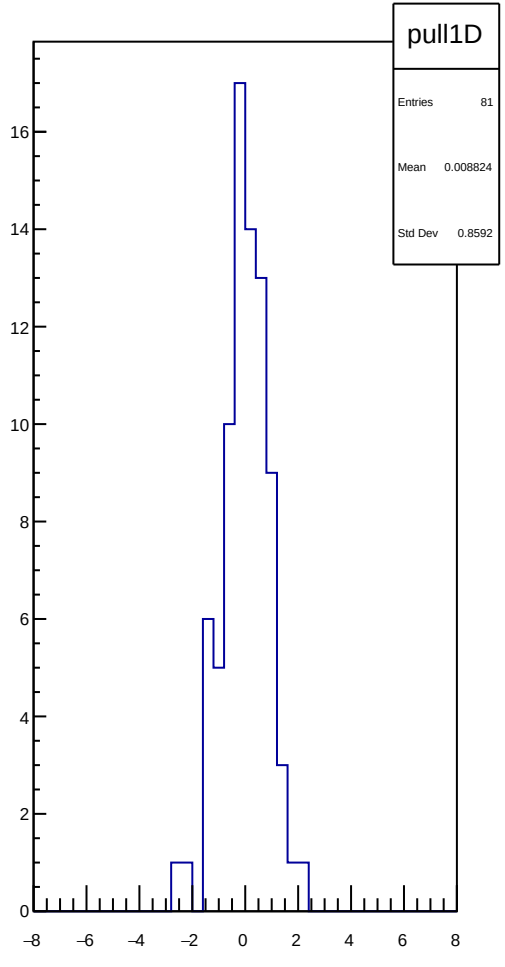

asym_at1_avg_rms vs run
χ² / ndf 1.946e+04 / 80
p0 2446 ± 1.984
3000
2800
2600
2400
2200
2000

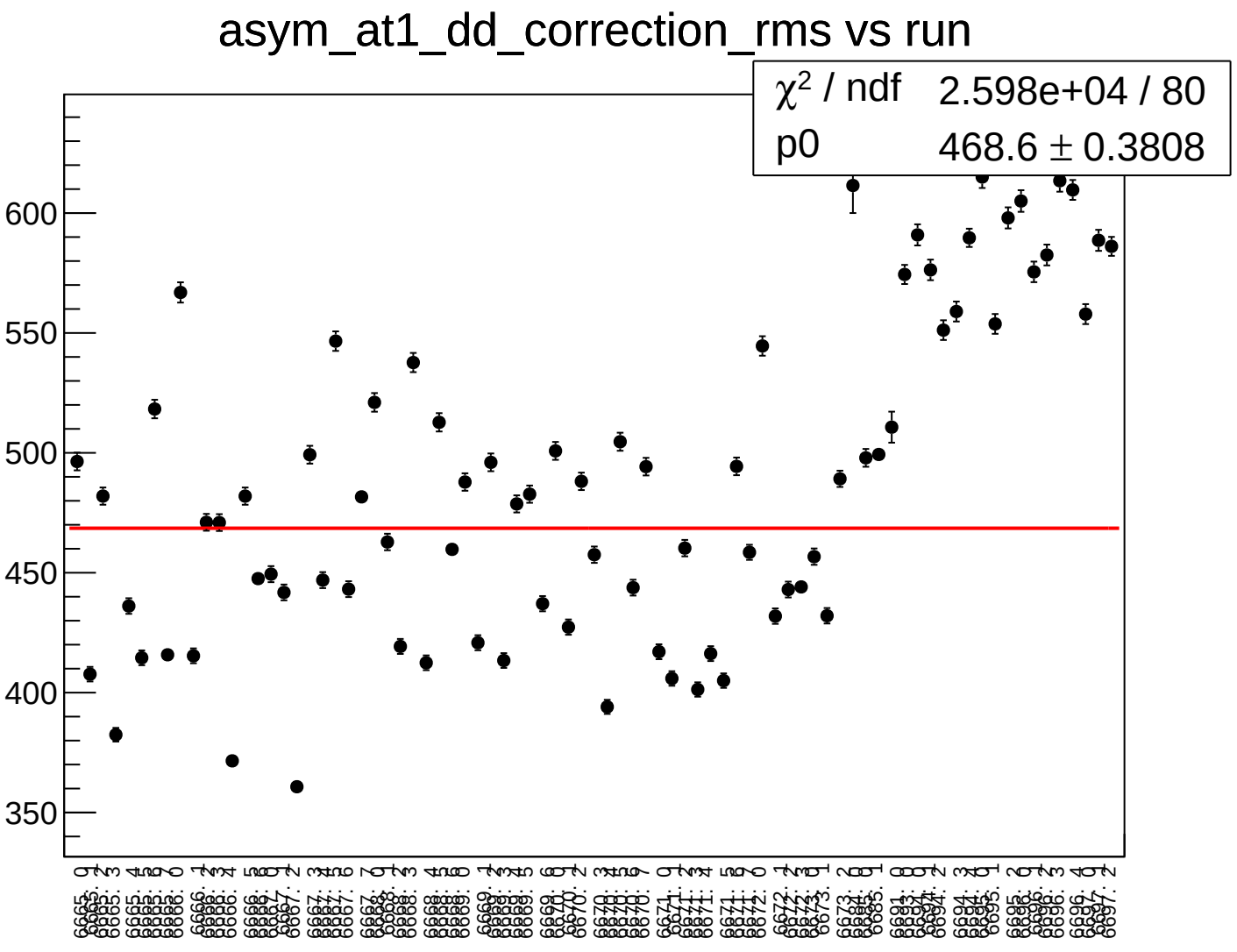

reg_asym_at1_dd_mean vs run
χ² / ndf 68.77 / 80
p0 −1109 ± 2147
pull
Entries 81
Mean −267.1
Std Dev 330.4

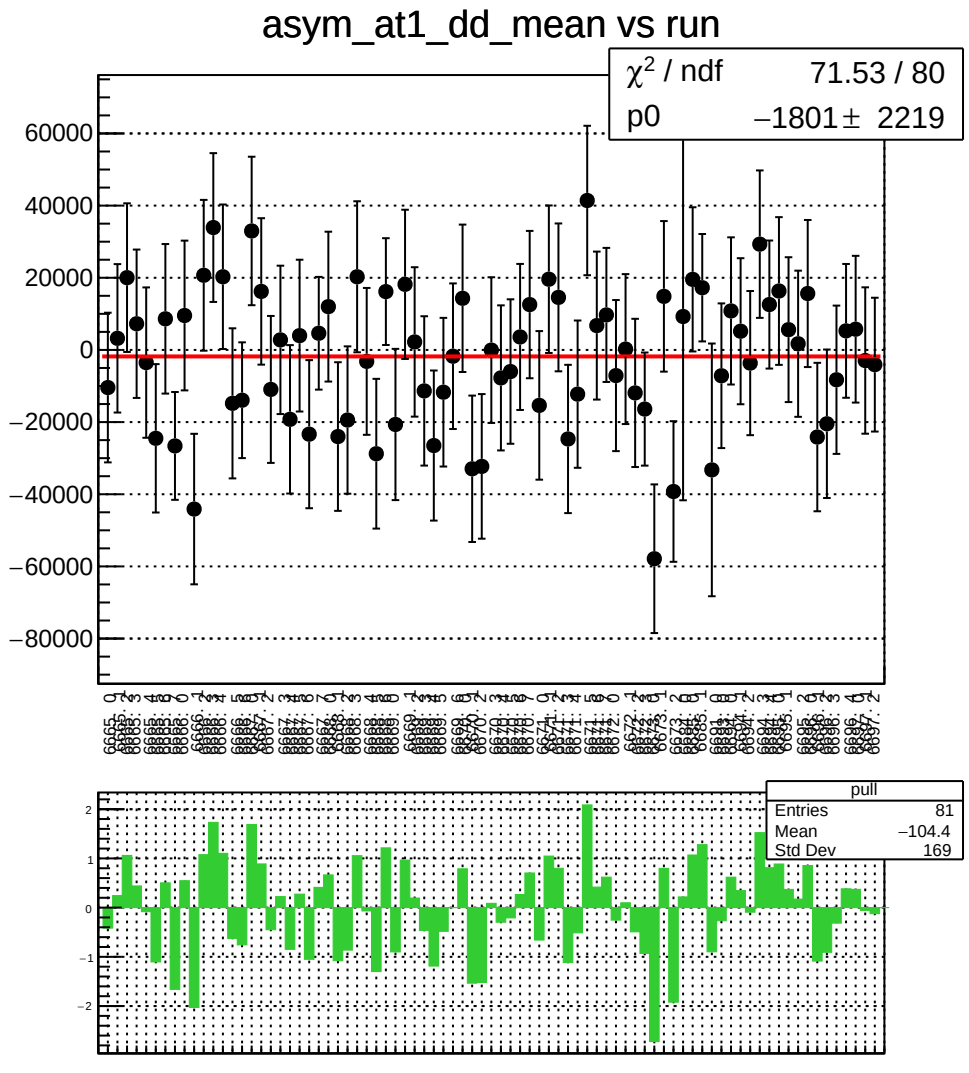

pull1D
Entries 81
Mean −0.00267
Std Dev 0.9214

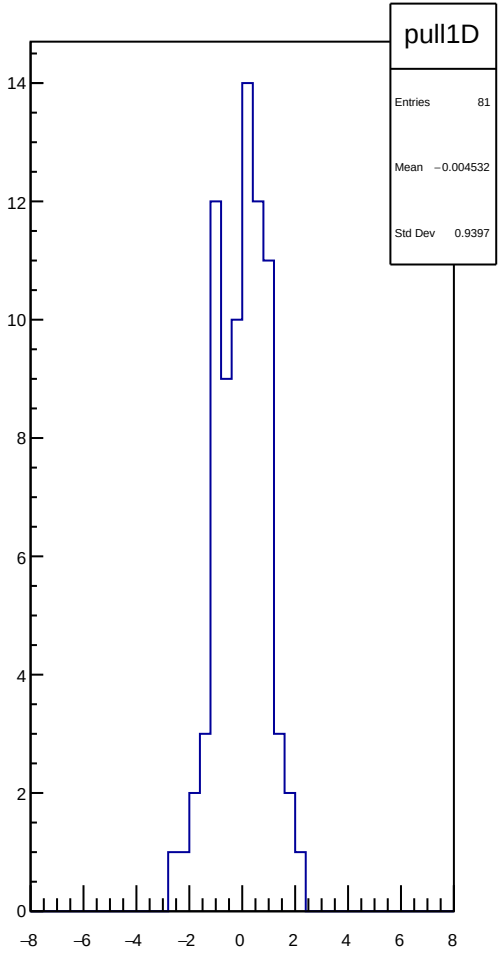

reg_asym_at1_dd_rms vs run
χ^2 / ndf 441.2 / 80
p0 1884 ± 1.518
1980
1960
1940
1920
1900
1880
1860
1840
1820
1800
1780

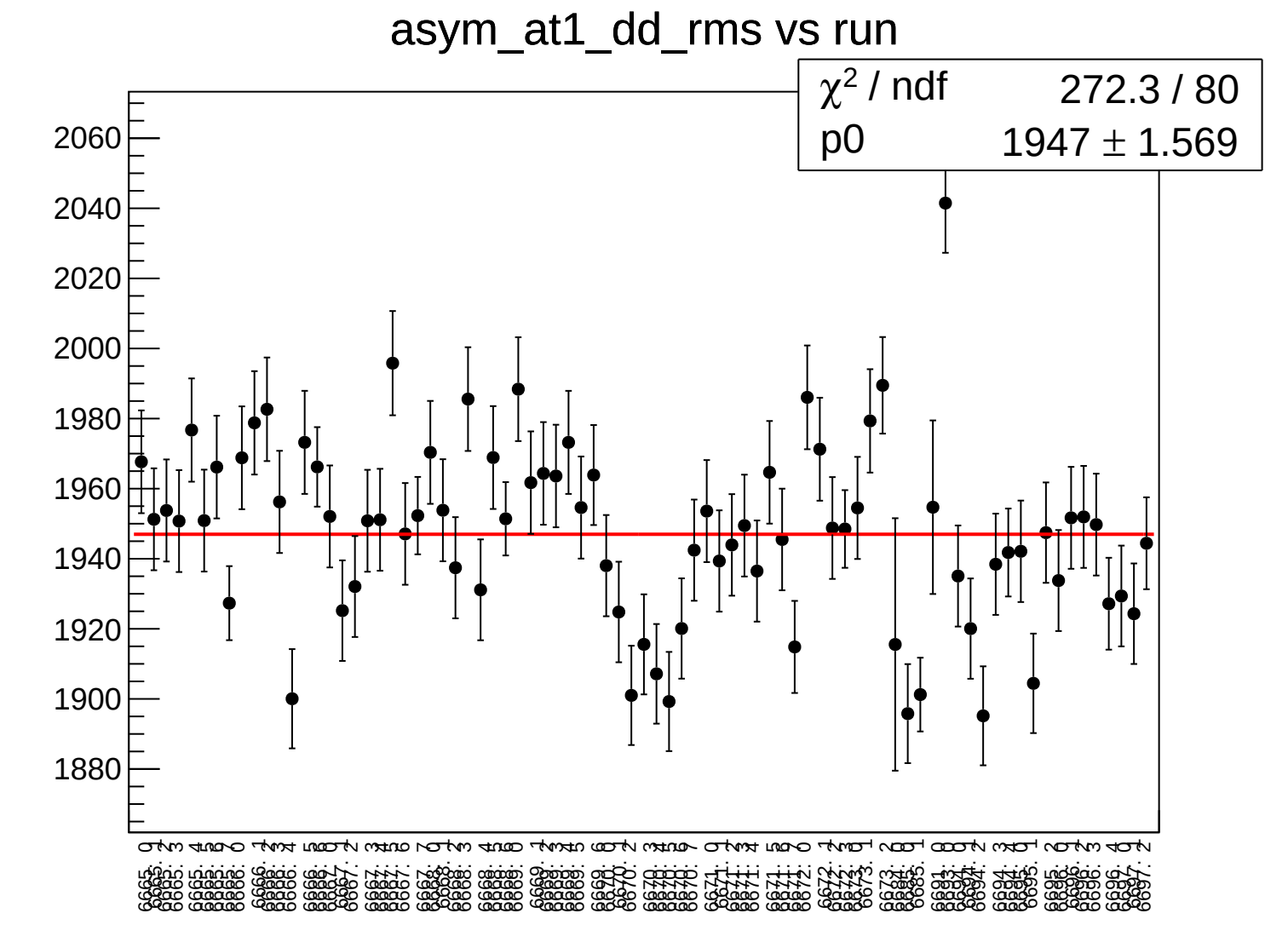

asym_at1_dd_correction_mean vs run
χ² / ndf 59.81 / 80
p0 692.2 ± 538.6
pull
Entries 81
Mean 77.88
Std Dev 14.82

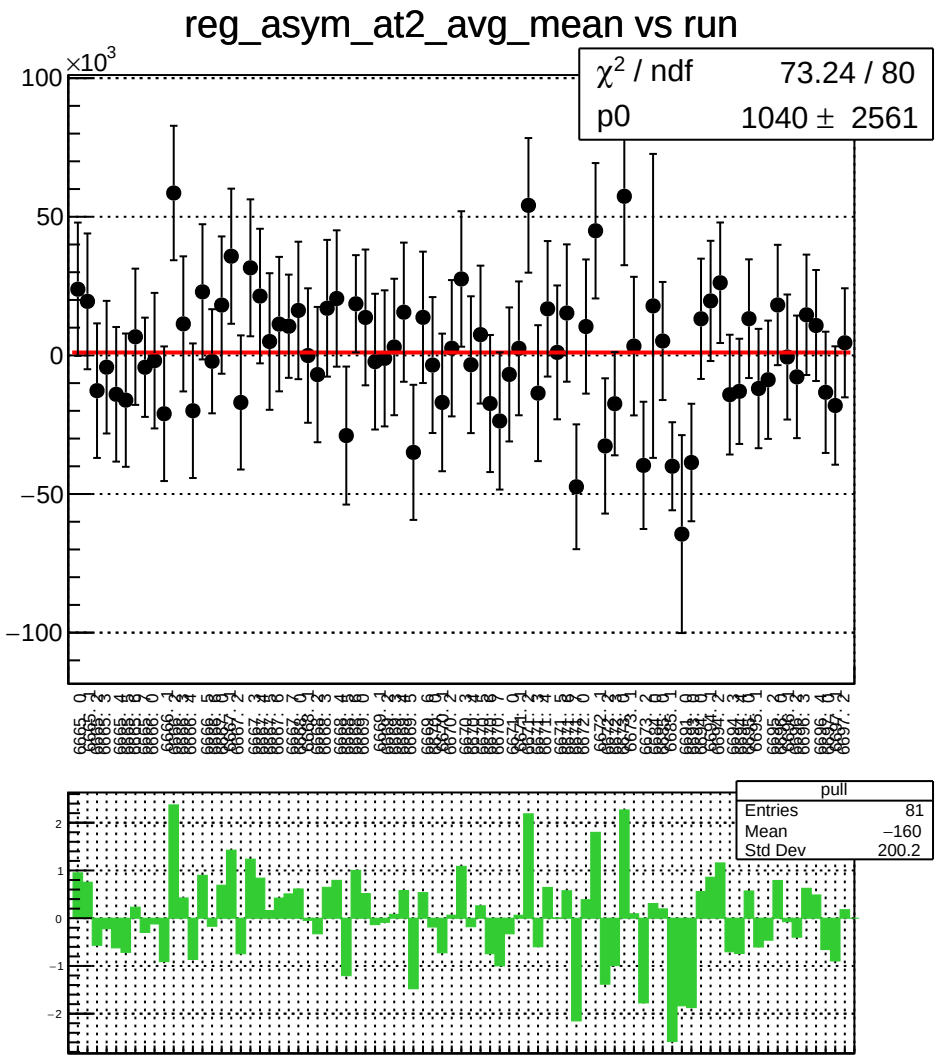

pull1D
Entries 81
Mean 0.008824
Std Dev 0.8592

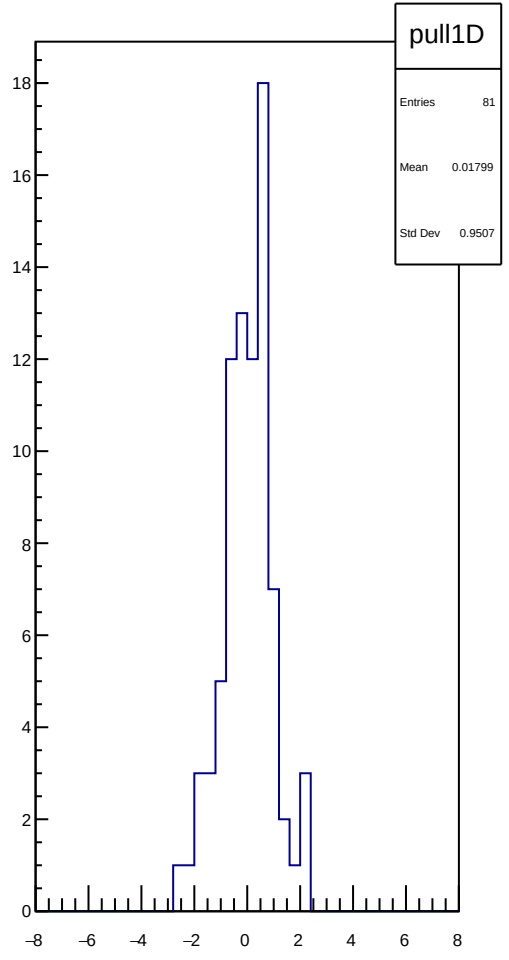

asym_at1_dd_correction_rms vs run
χ² / ndf 2.598e+04 / 80
p0 468.6 ± 0.3808
600
550
500
450
400
350

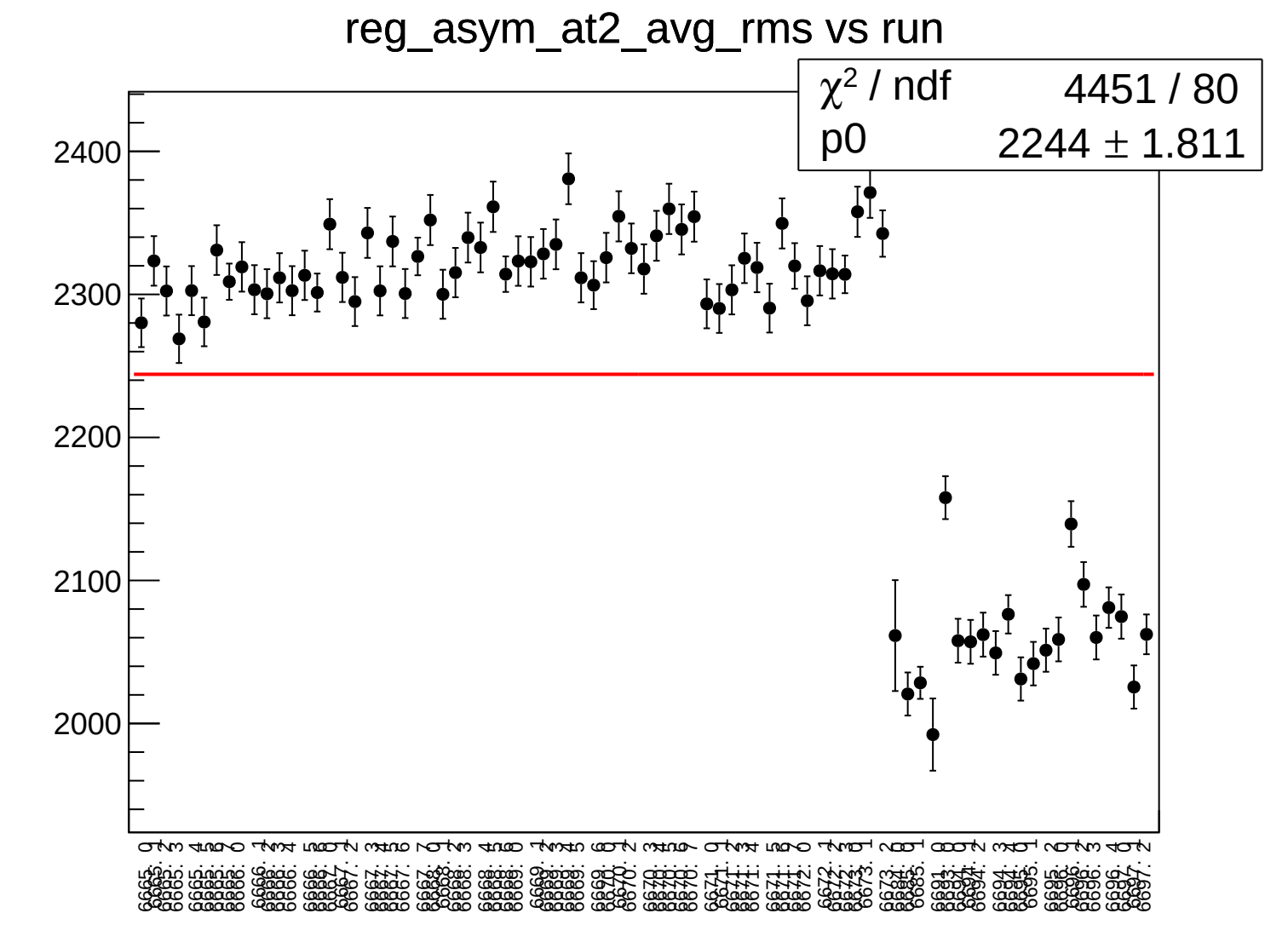

asym_at1_dd_mean vs run
χ² / ndf 71.53 / 80
p0 −1801 ± 2219
pull
Entries 81
Mean −104.4
Std Dev 169

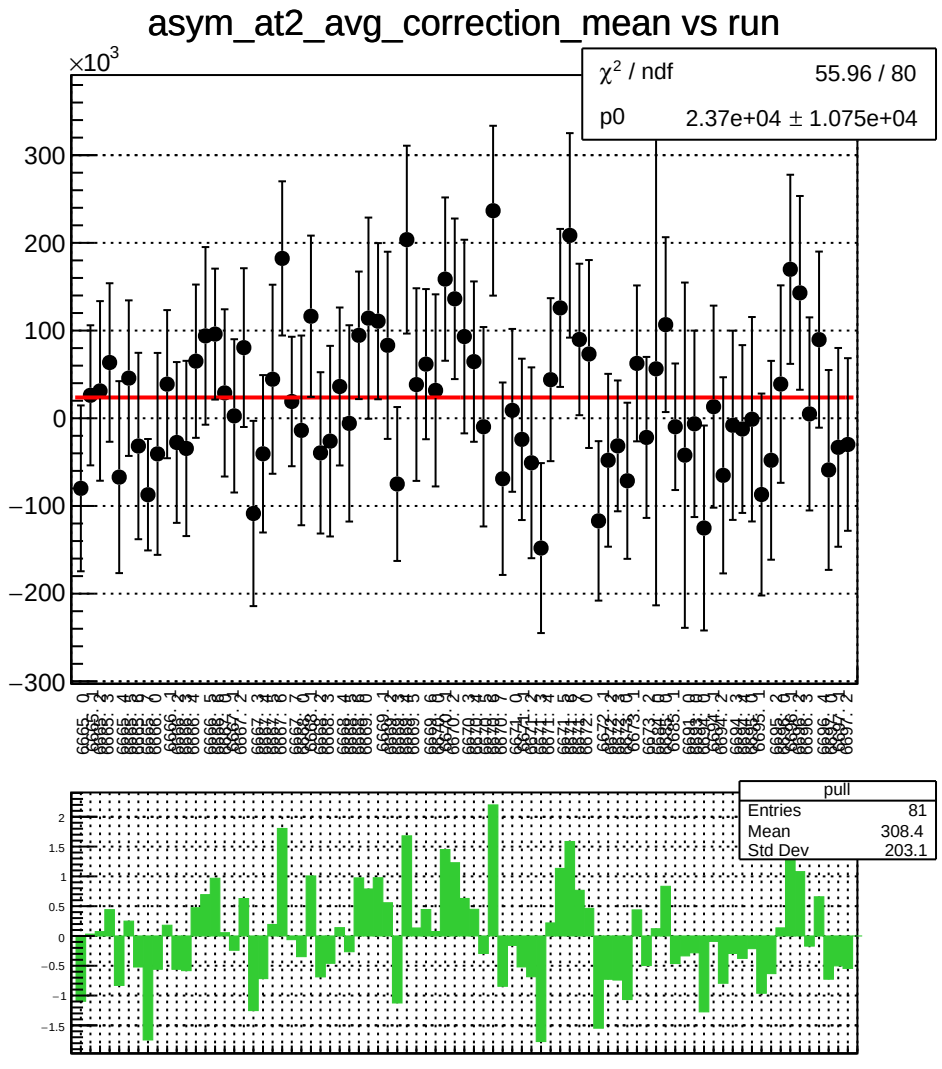

pull1D
Entries 81
Mean −0.004532
Std Dev 0.9397

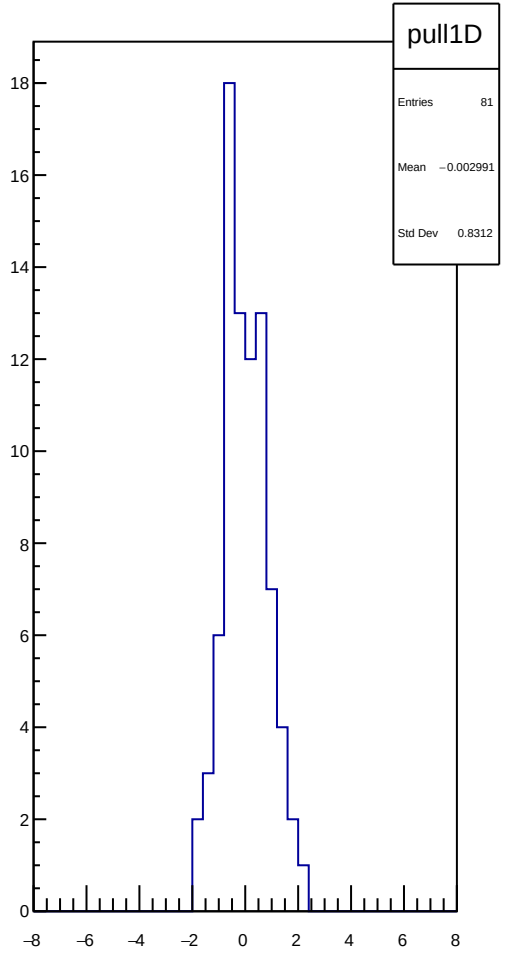

asym_at1_dd_rms vs run
χ² / ndf 272.3 / 80
p0 1947 ± 1.569
2060
2040
2020
2000
1980
1960
1940
1920
1900
1880

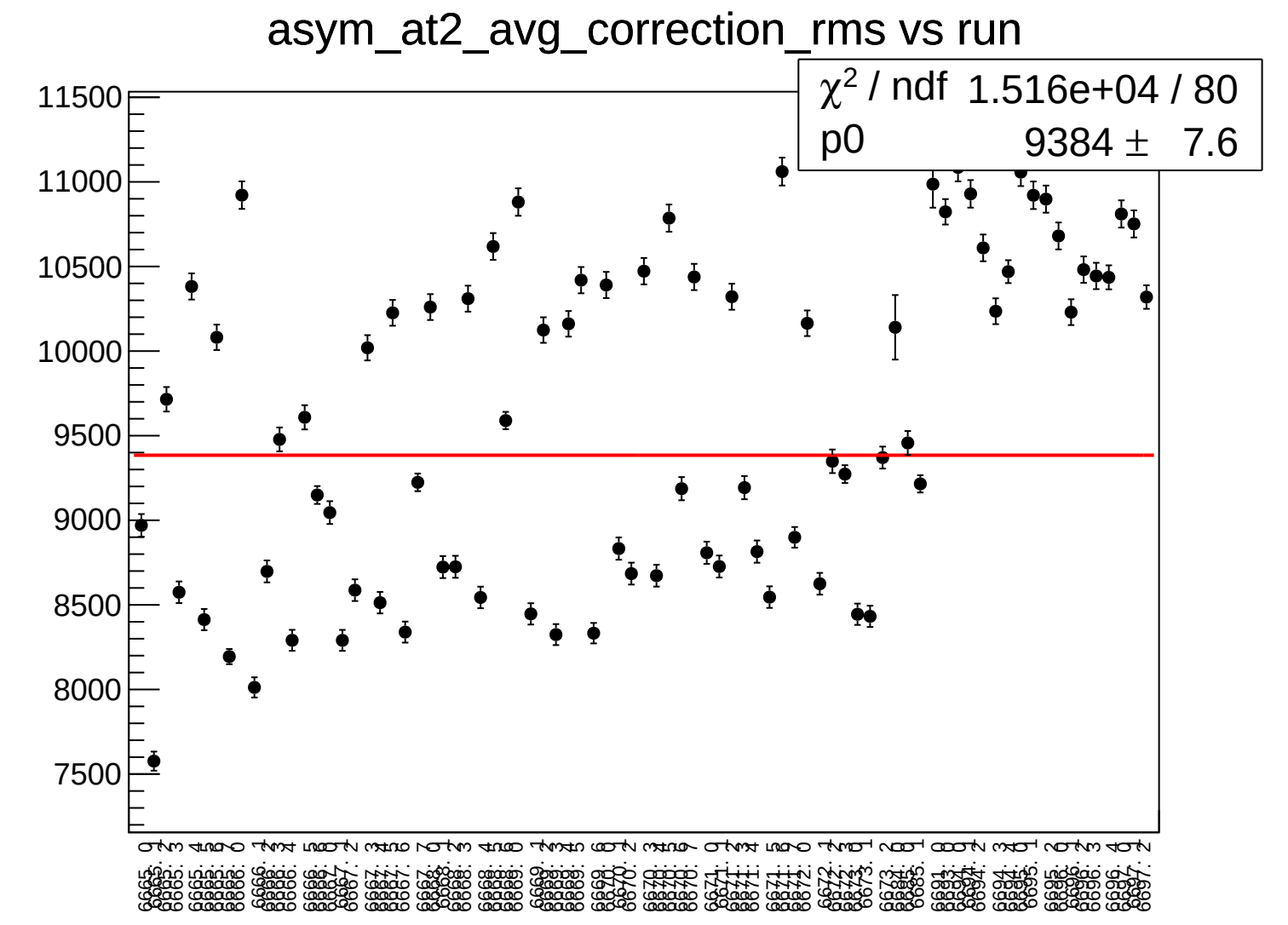

reg_asym_at2_avg_mean vs run
×10^3
100
50
0
−50
−100
χ² / ndf 73.24 / 80
p0 1040 ± 2561
pull
Entries 81
Mean −160
Std Dev 200.2
2
1
0
−1
−2

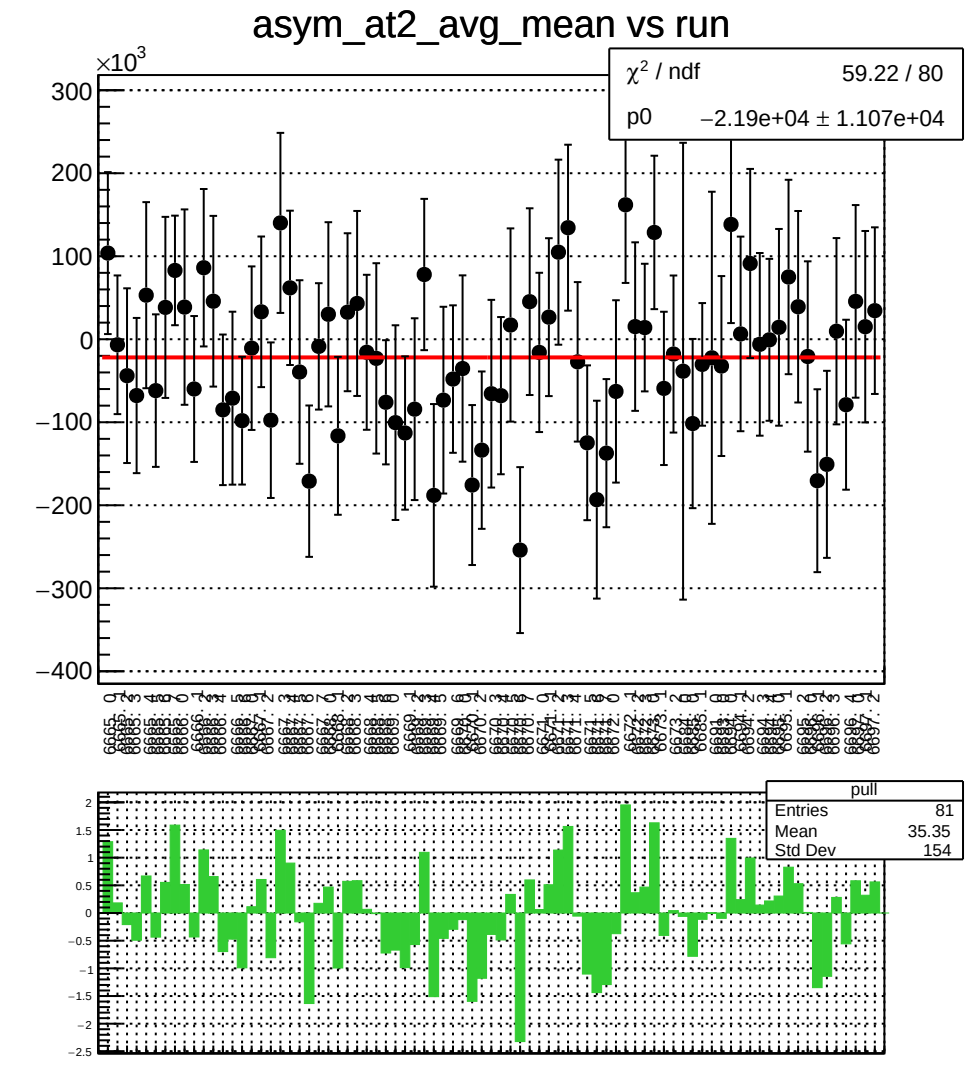

pull1D
Entries 81
Mean 0.01799
Std Dev 0.9507
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

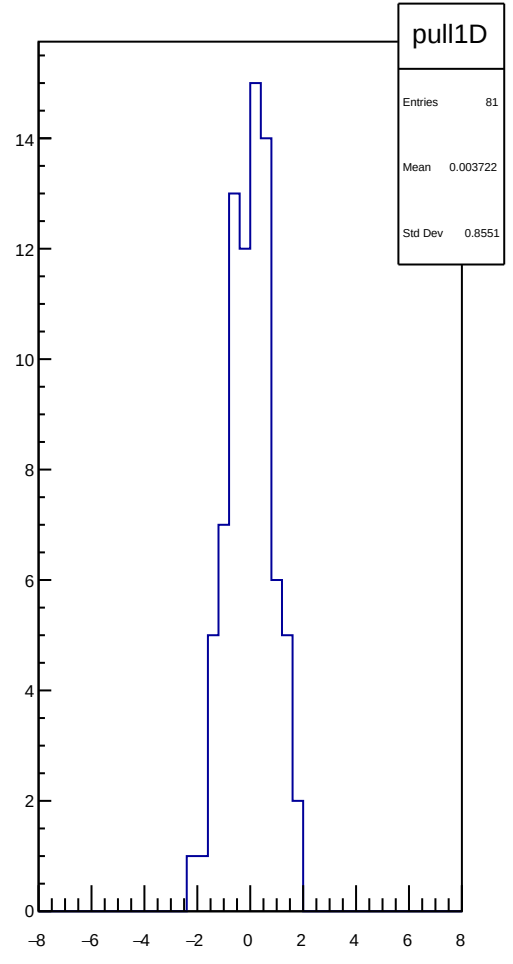

reg_asym_at2_avg_rms vs run
χ² / ndf 4451 / 80
p0 2244 ± 1.811
2400
2300
2200
2100
2000

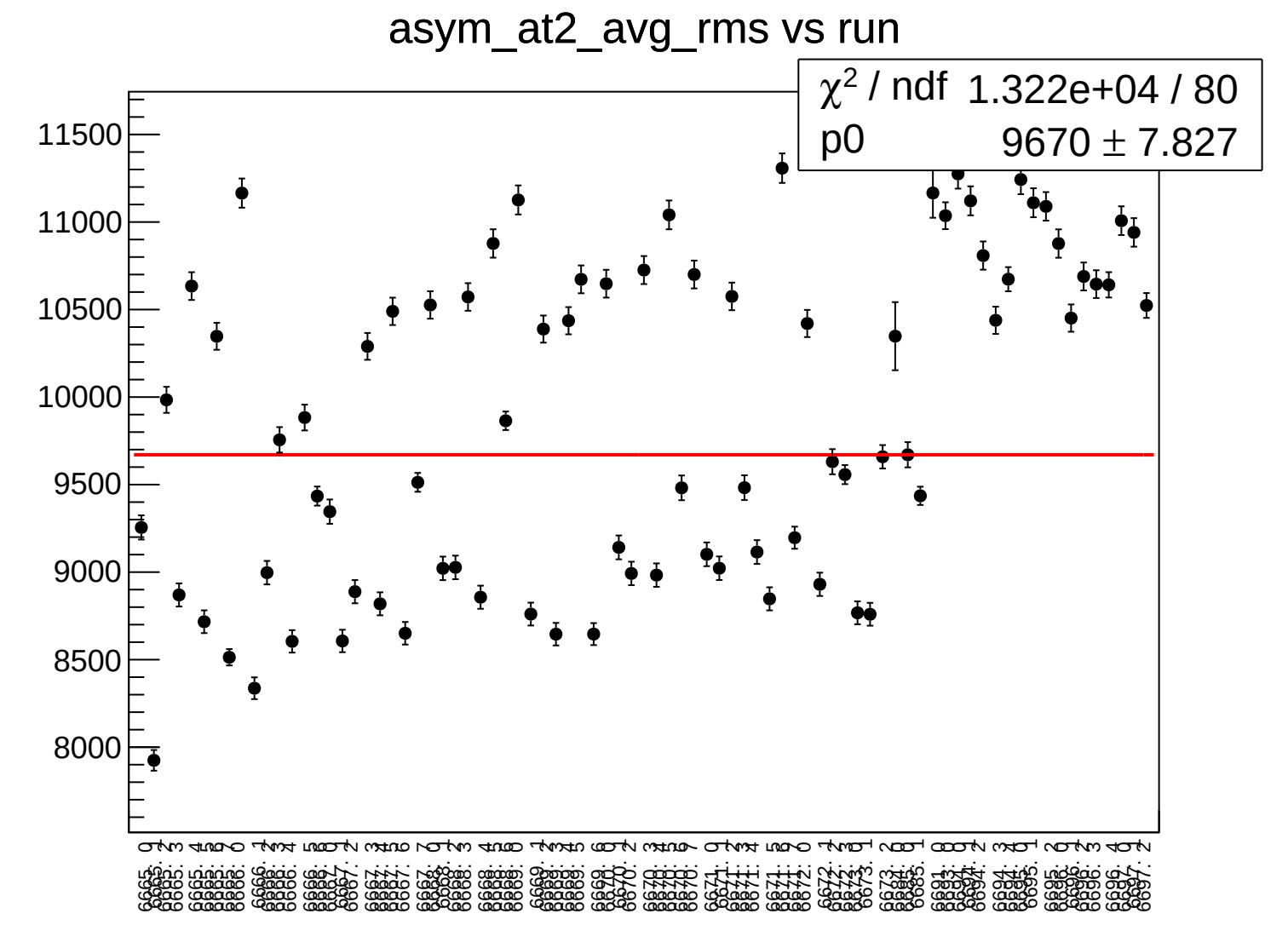

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 55.96 / 80
p0 2.37e+04 ± 1.075e+04
pull
Entries 81
Mean 308.4
Std Dev 203.1

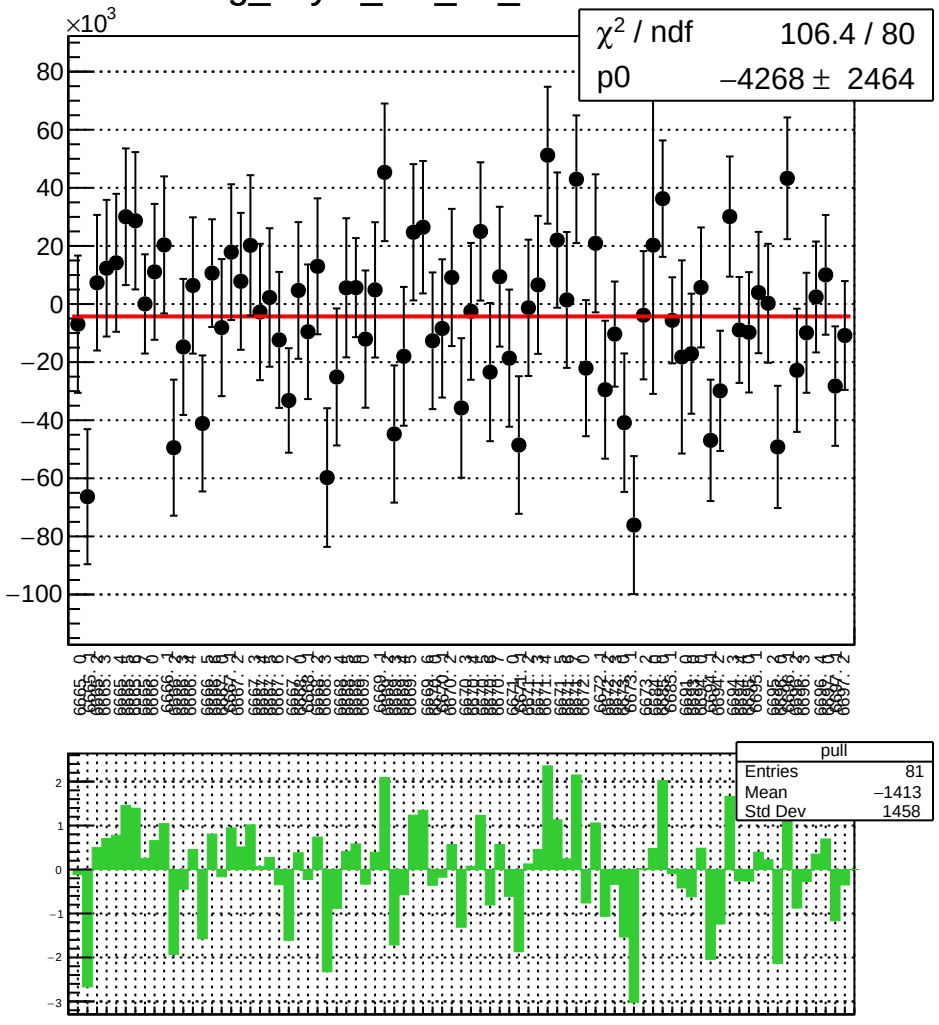

pull1D
Entries 81
Mean −0.002991
Std Dev 0.8312

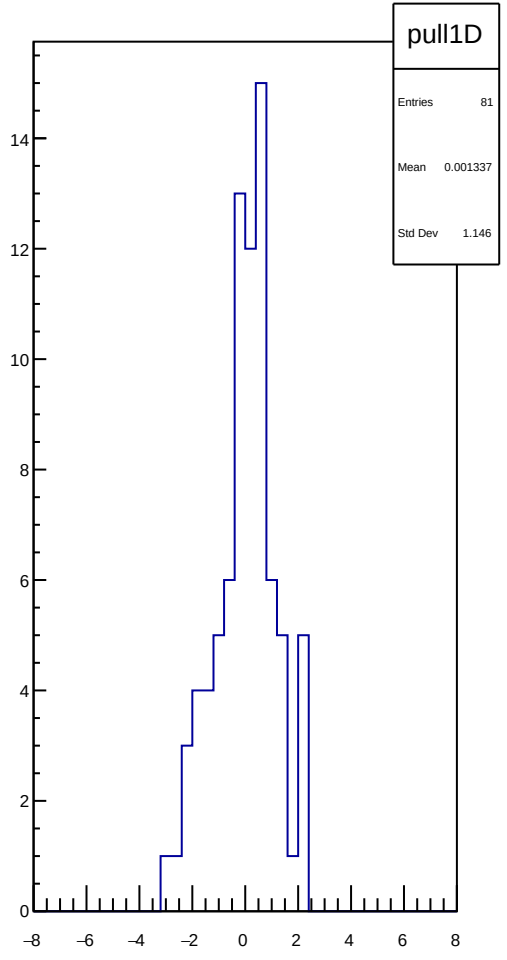

asym_at2_avg_correction_rms vs run
χ² / ndf 1.516e+04 / 80
p0 9384 ± 7.6
11500
11000
10500
10000
9500
9000
8500
8000
7500

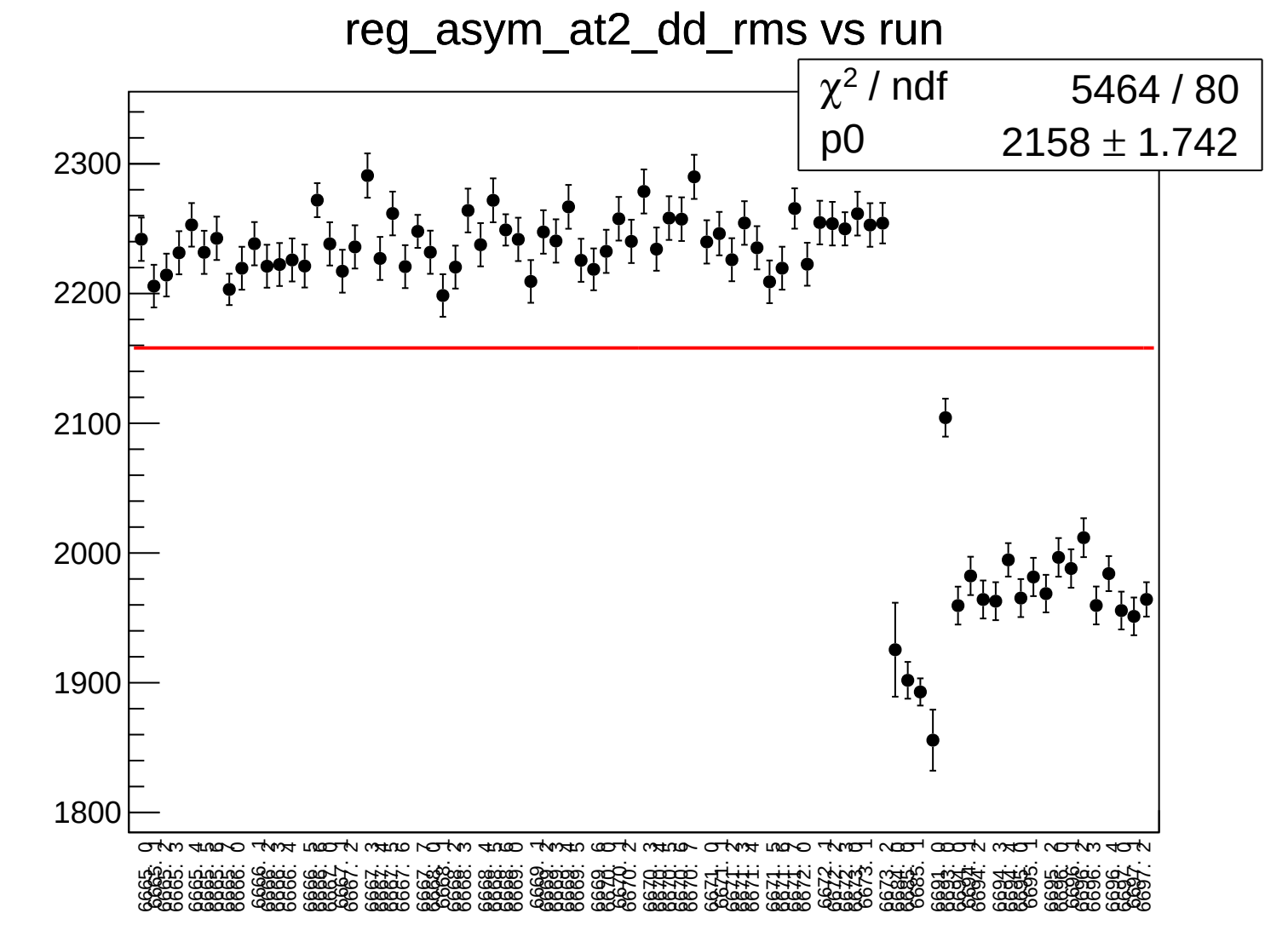

asym_at2_avg_mean vs run
×10^3
χ² / ndf 59.22 / 80
p0 −2.19e+04 ± 1.107e+04
pull
Entries 81
Mean 35.35
Std Dev 154

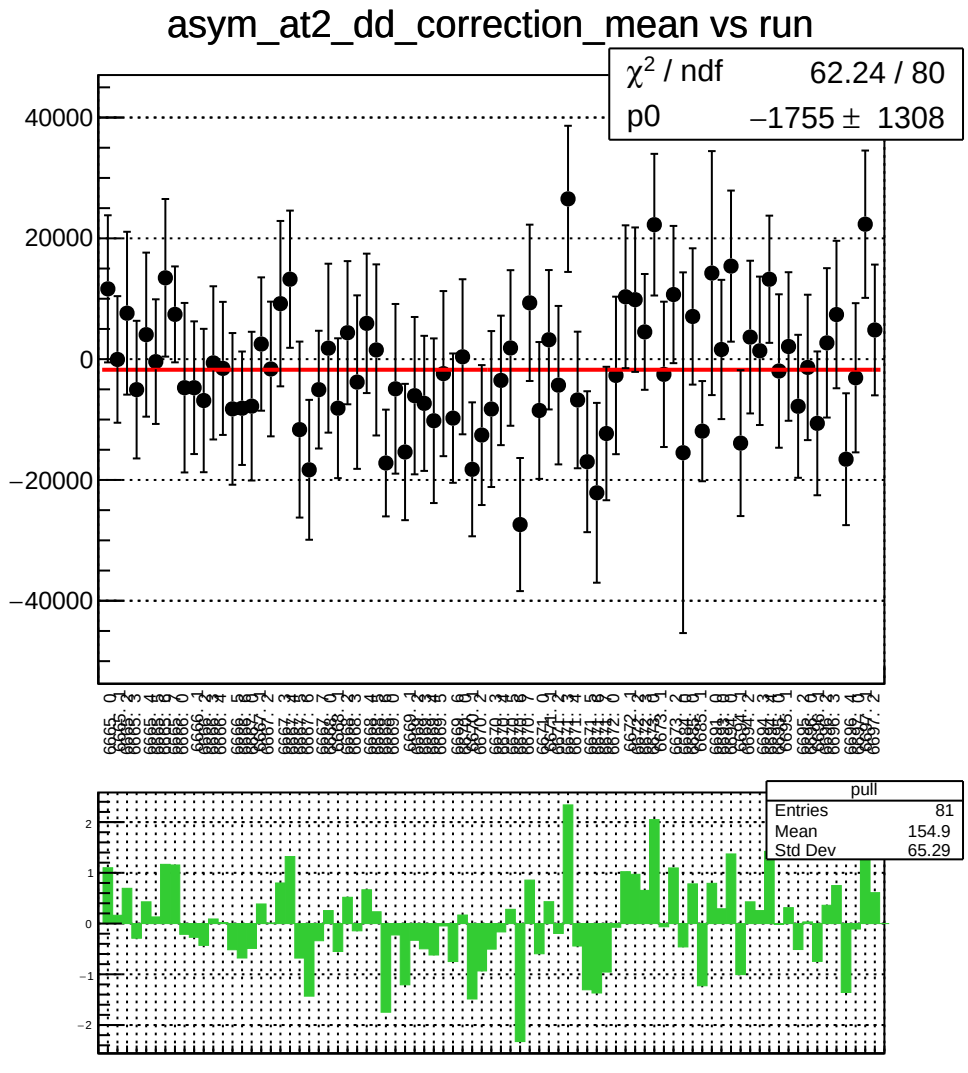

pull1D
Entries 81
Mean 0.003722
Std Dev 0.8551

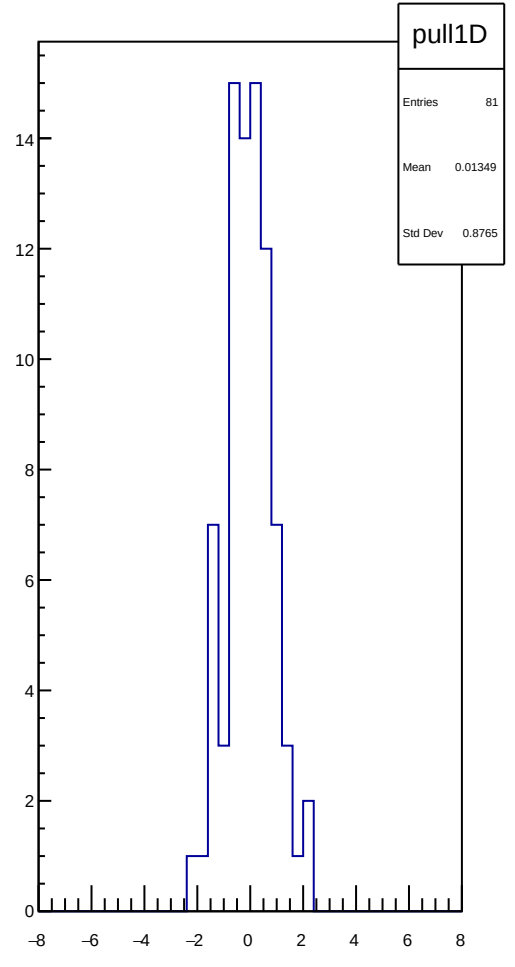

asym_at2_avg_rms vs run
χ² / ndf 1.322e+04 / 80
p0 9670 ± 7.827
11500
11000
10500
10000
9500
9000
8500
8000

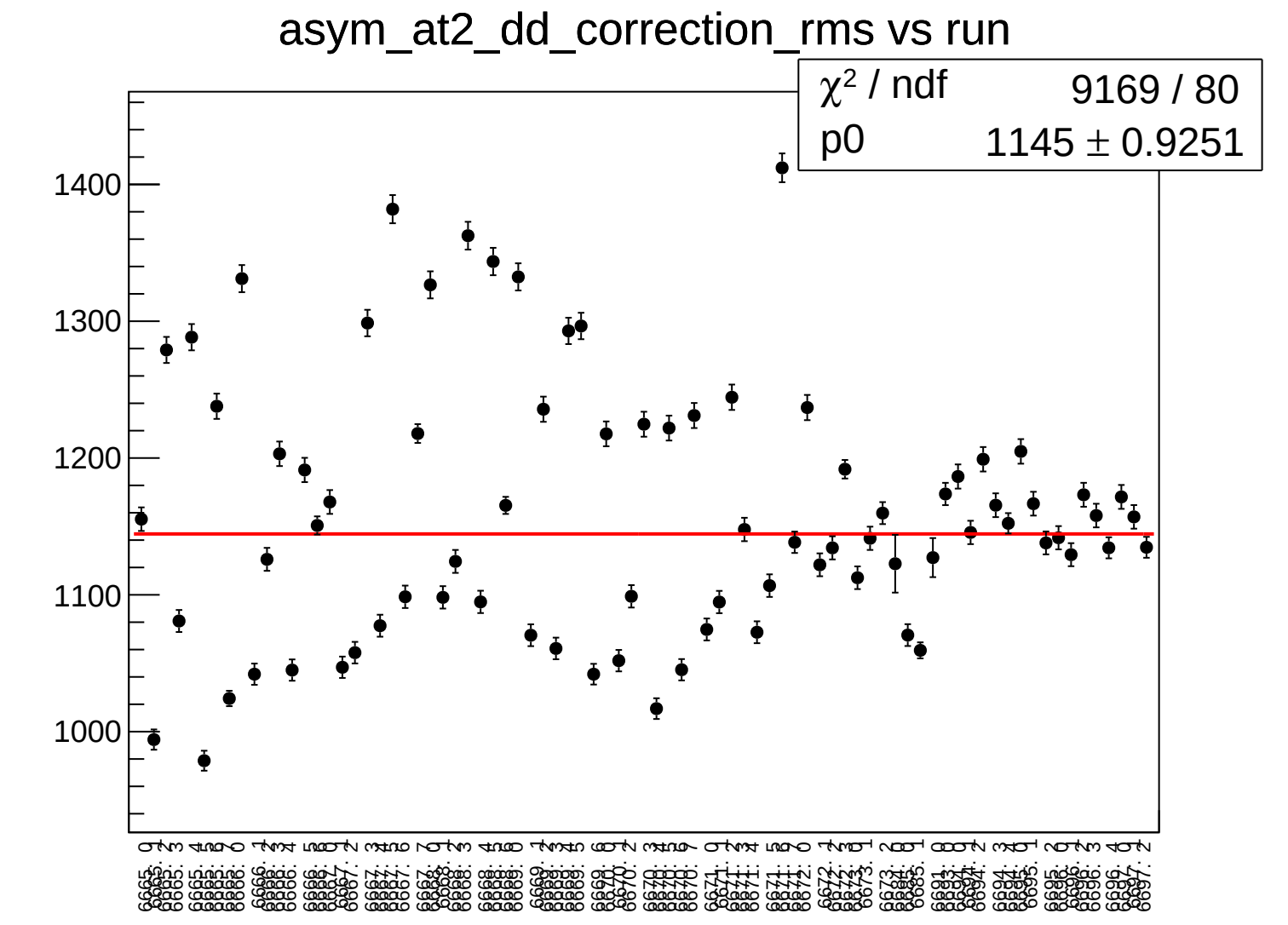

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 106.4 / 80
p0 −4268 ± 2464
pull
Entries 81
Mean −1413
Std Dev 1458

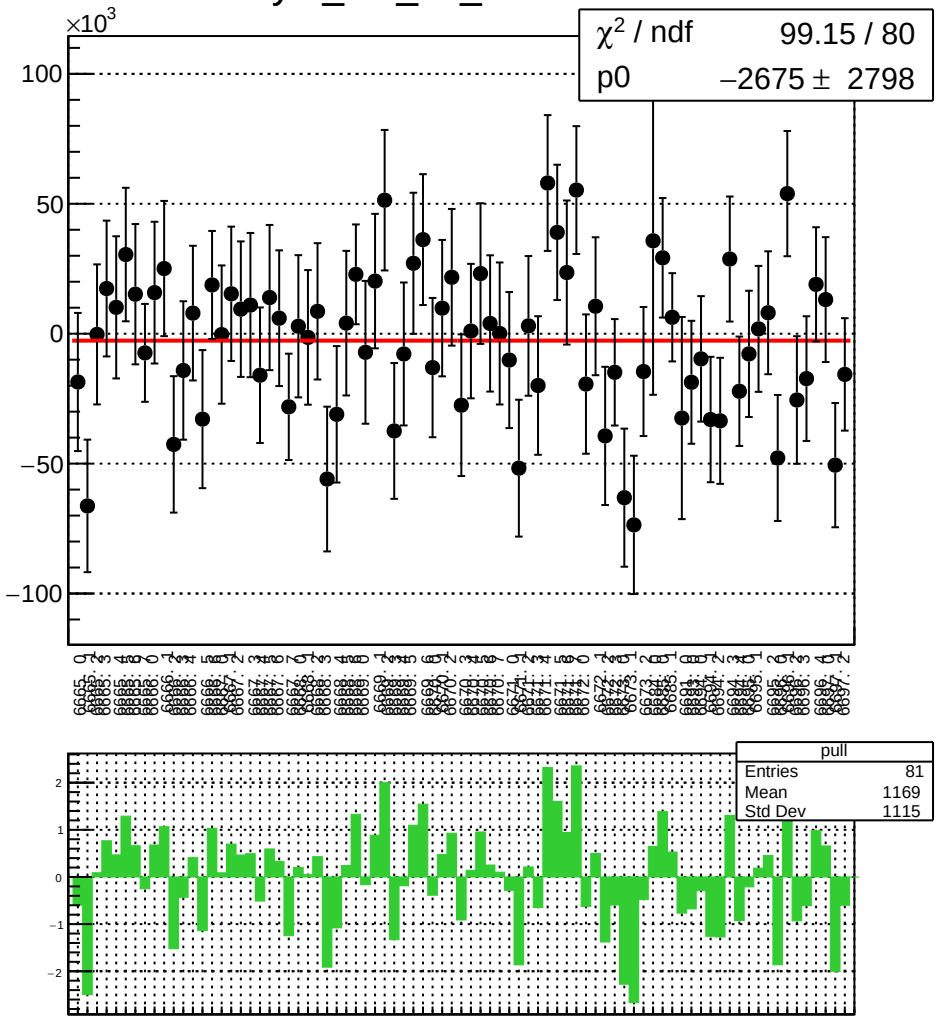

pull1D
Entries 81
Mean 0.001337
Std Dev 1.146

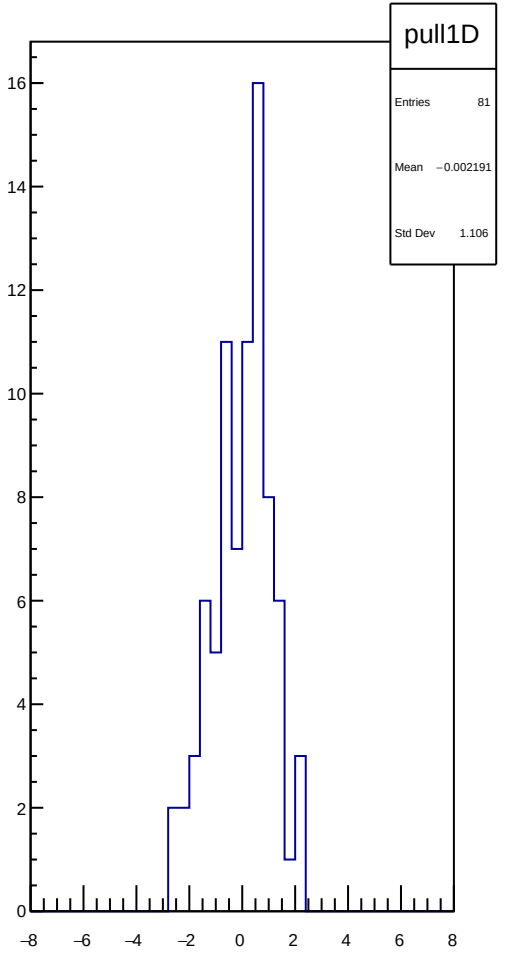

reg_asym_at2_dd_rms vs run
χ² / ndf 5464 / 80
p0 2158 ± 1.742
2300
2200
2100
2000
1900
1800

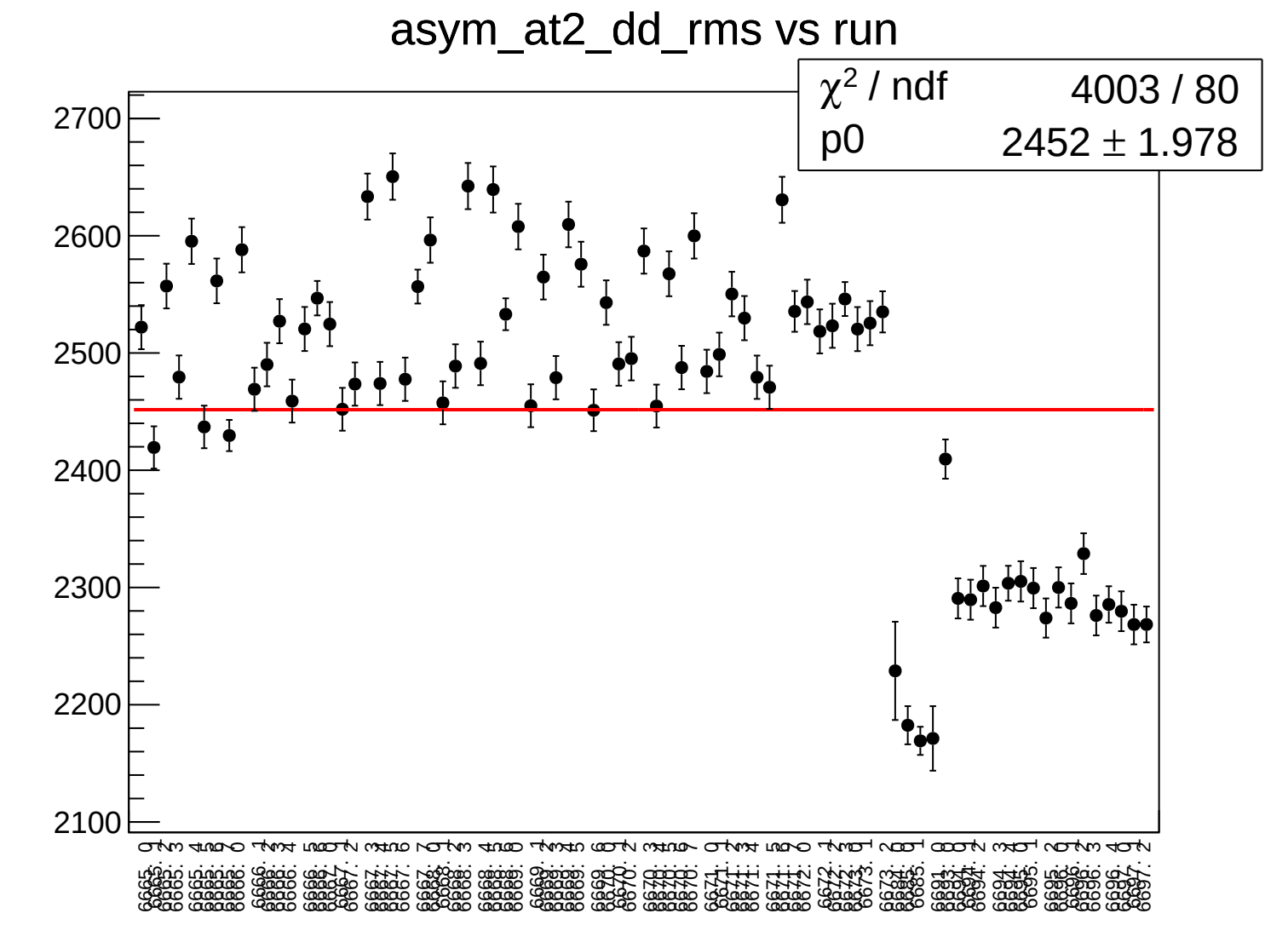

asym_at2_dd_correction_mean vs run
χ² / ndf 62.24 / 80
p0 −1755 ± 1308
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 154.9
Std Dev 65.29
2
1
0
−1
−2

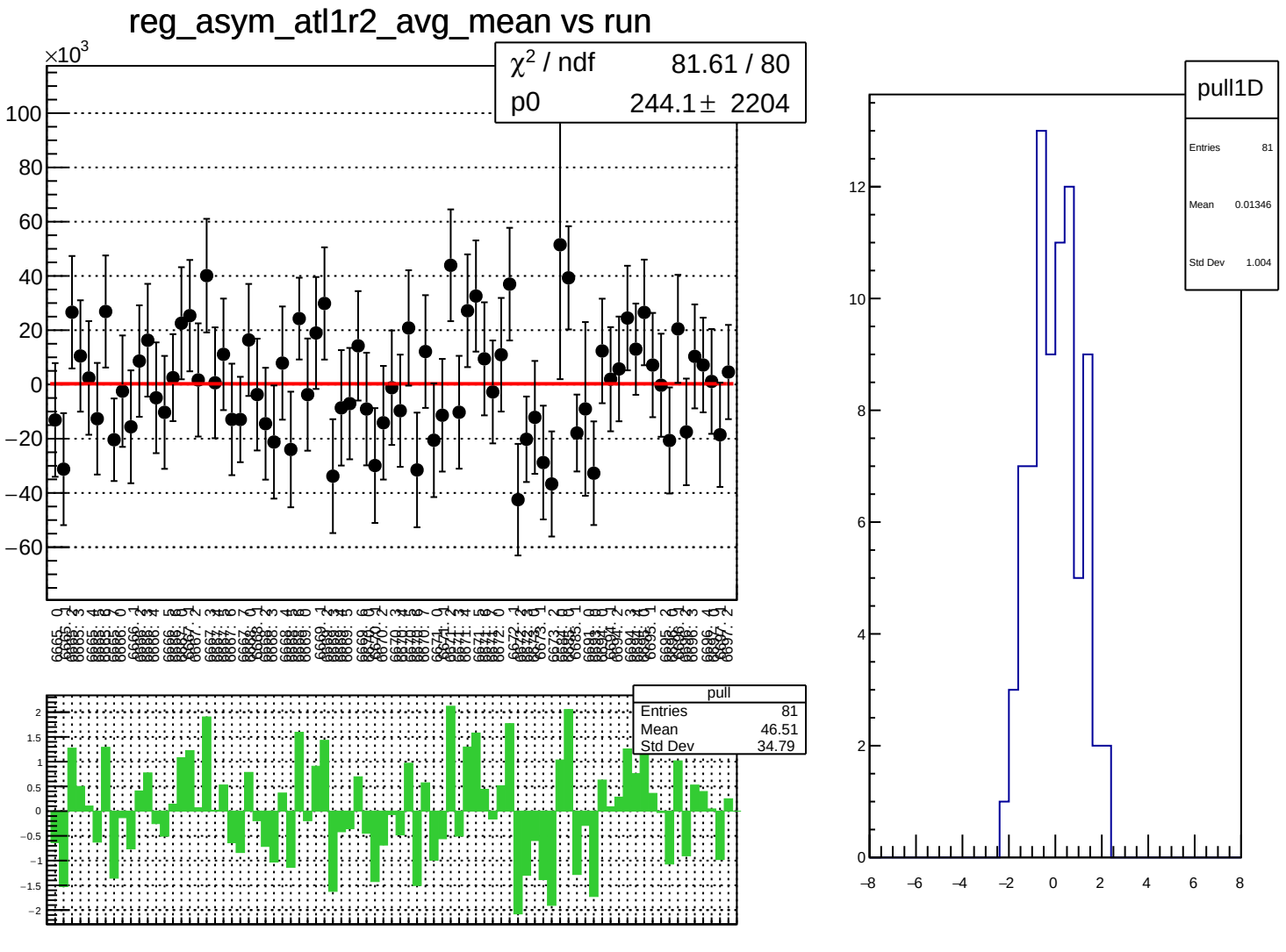

pull1D
Entries 81
Mean 0.01349
Std Dev 0.8765
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

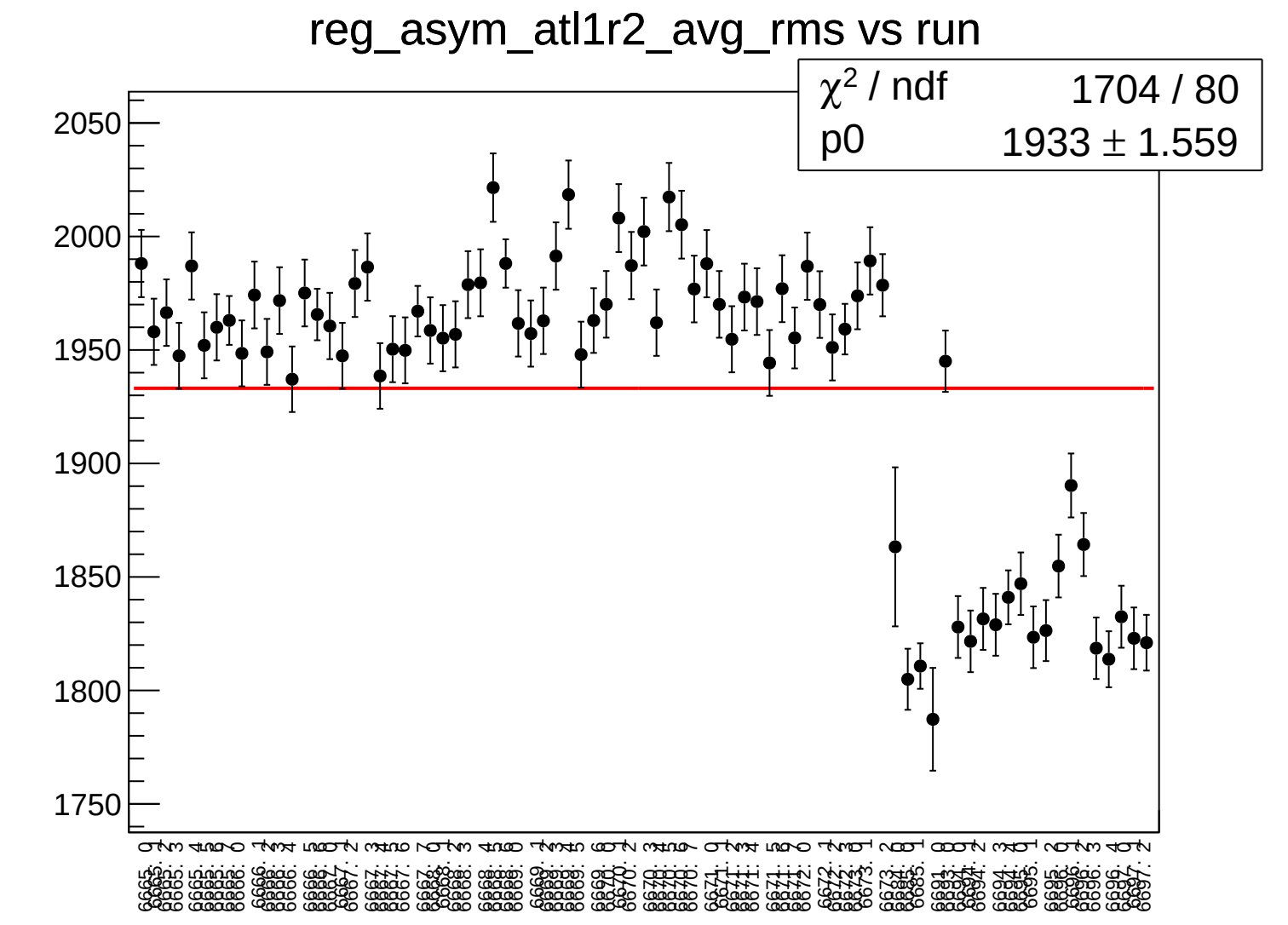

asym_at2_dd_correction_rms vs run
χ² / ndf 9169 / 80
p0 1145 ± 0.9251
1400
1300
1200
1100
1000

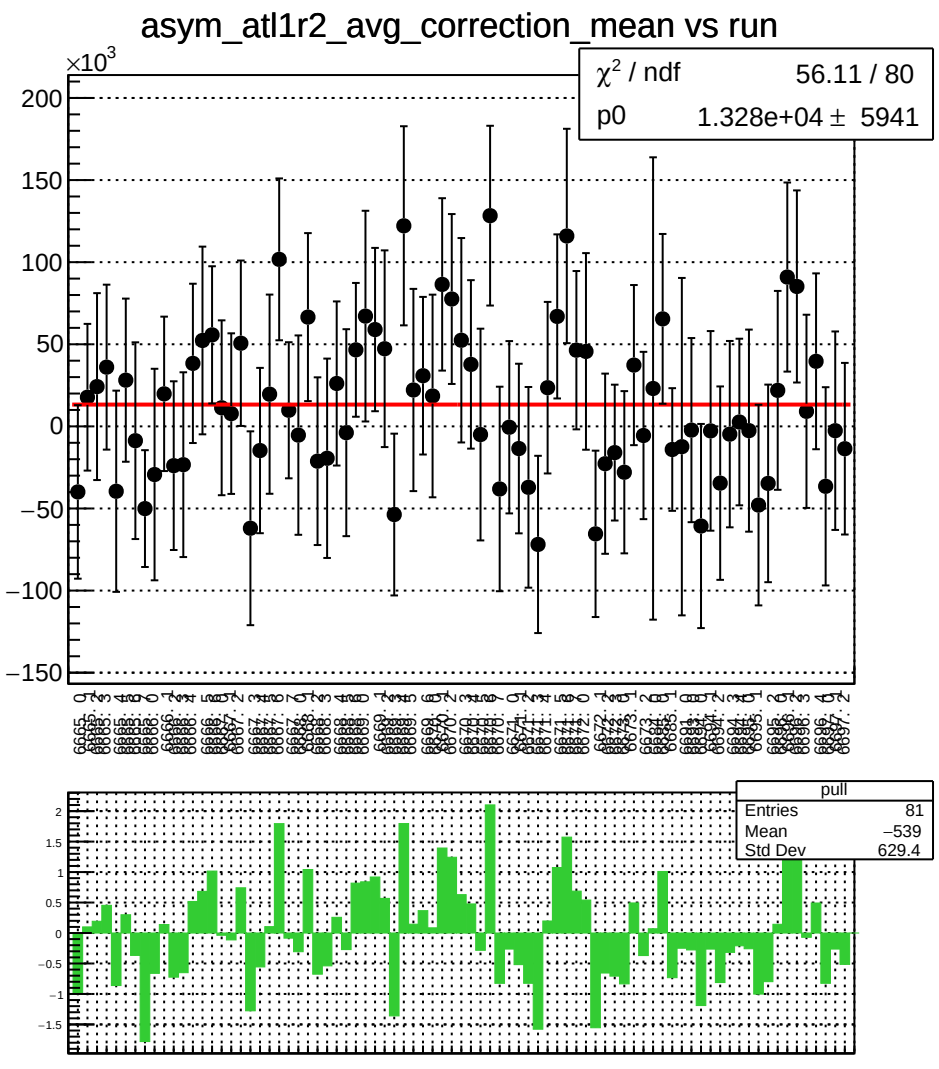

asym_at2_dd_mean vs run
×10^3
χ² / ndf 99.15 / 80
p0 −2675 ± 2798
100
50
0
−50
−100
pull
Entries 81
Mean 1169
Std Dev 1115
2
1
0
−1
−2

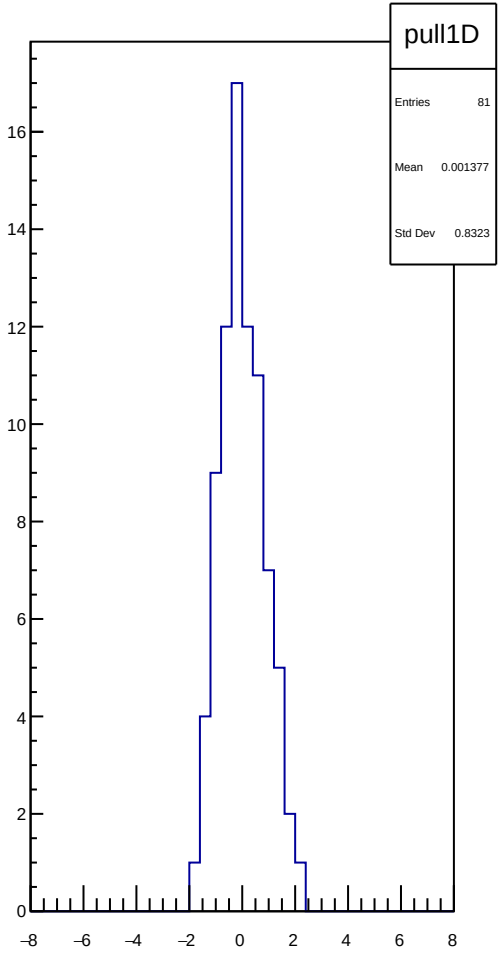

pull1D
Entries 81
Mean −0.002191
Std Dev 1.106
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

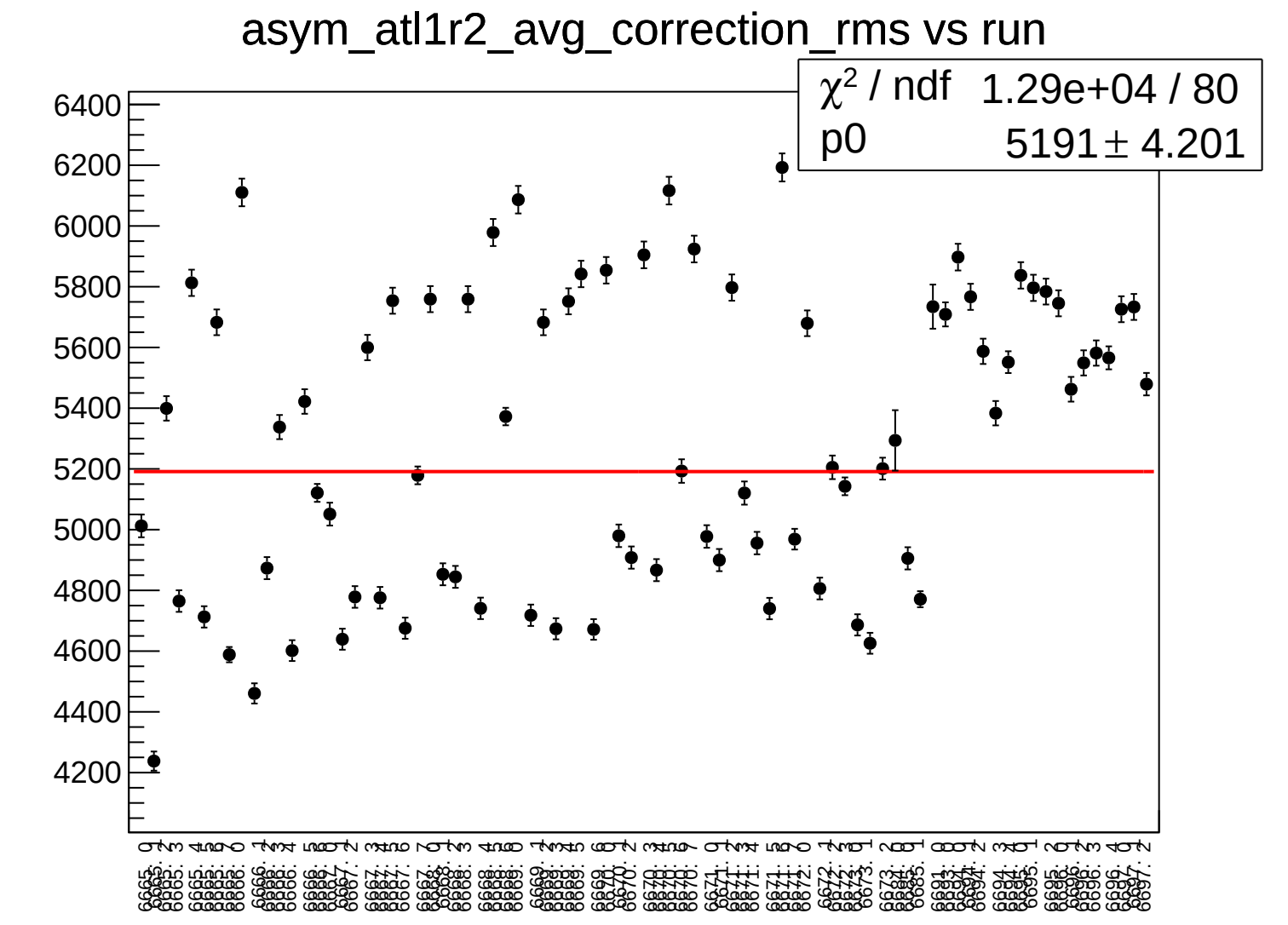

asym_at2_dd_rms vs run
χ² / ndf 4003 / 80
p0 2452 ± 1.978
2700
2600
2500
2400
2300
2200
2100

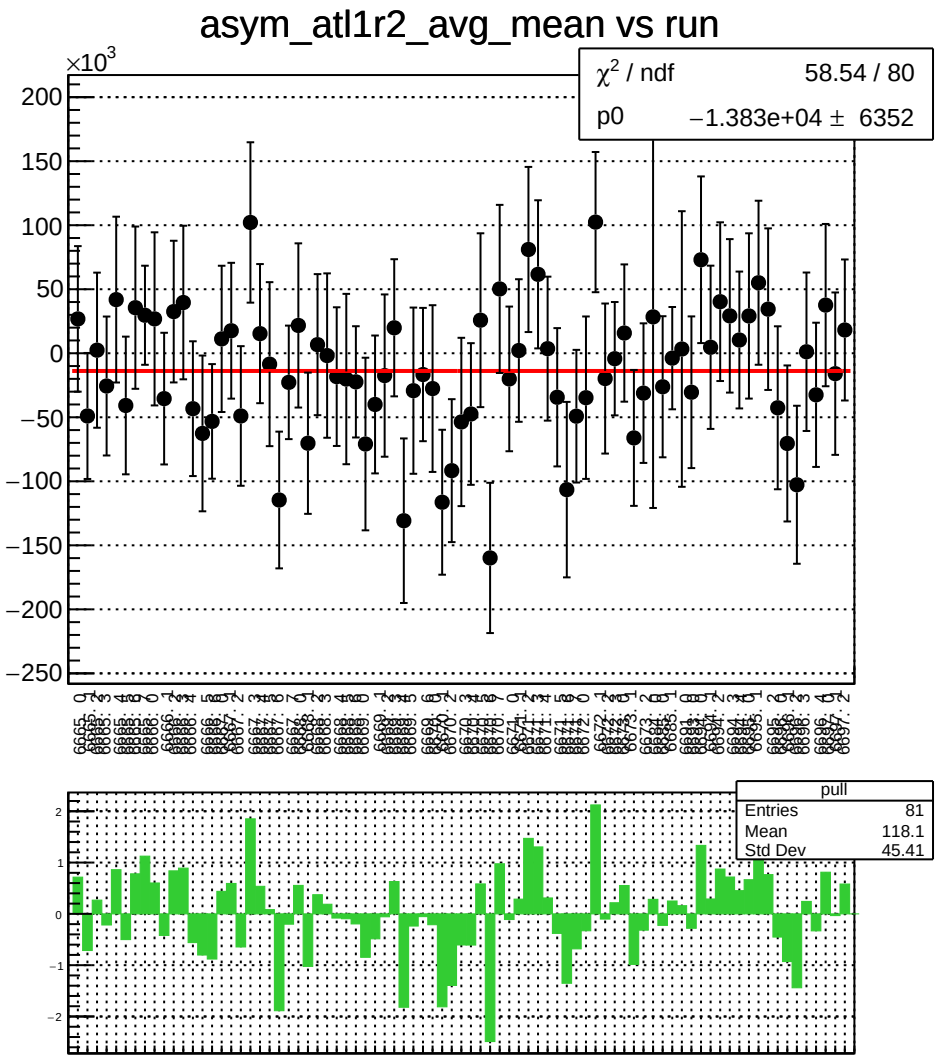

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 81.61 / 80
p0 244.1± 2204
pull
Entries 81
Mean 46.51
Std Dev 34.79
pull1D
Entries 81
Mean 0.01346
Std Dev 1.004

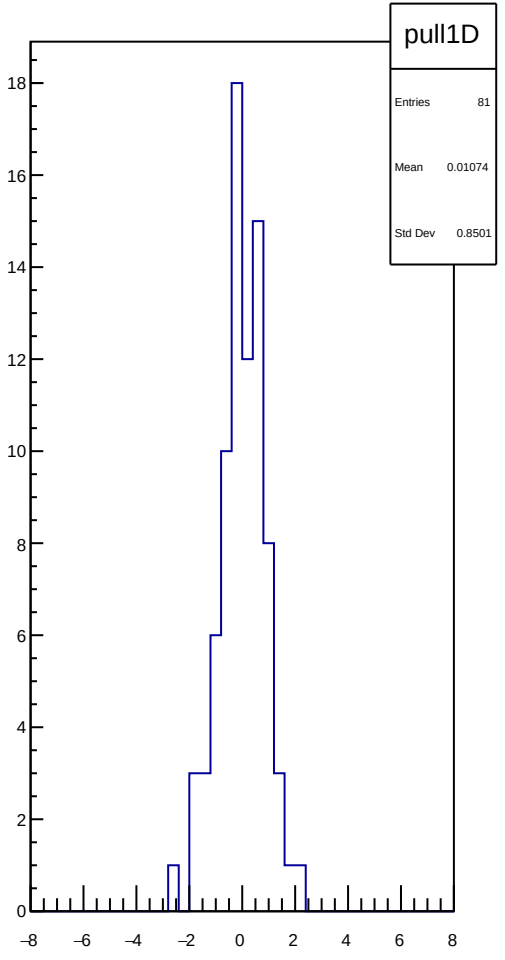

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 1704 / 80
p0 1933 ± 1.559
2050
2000
1950
1900
1850
1800
1750

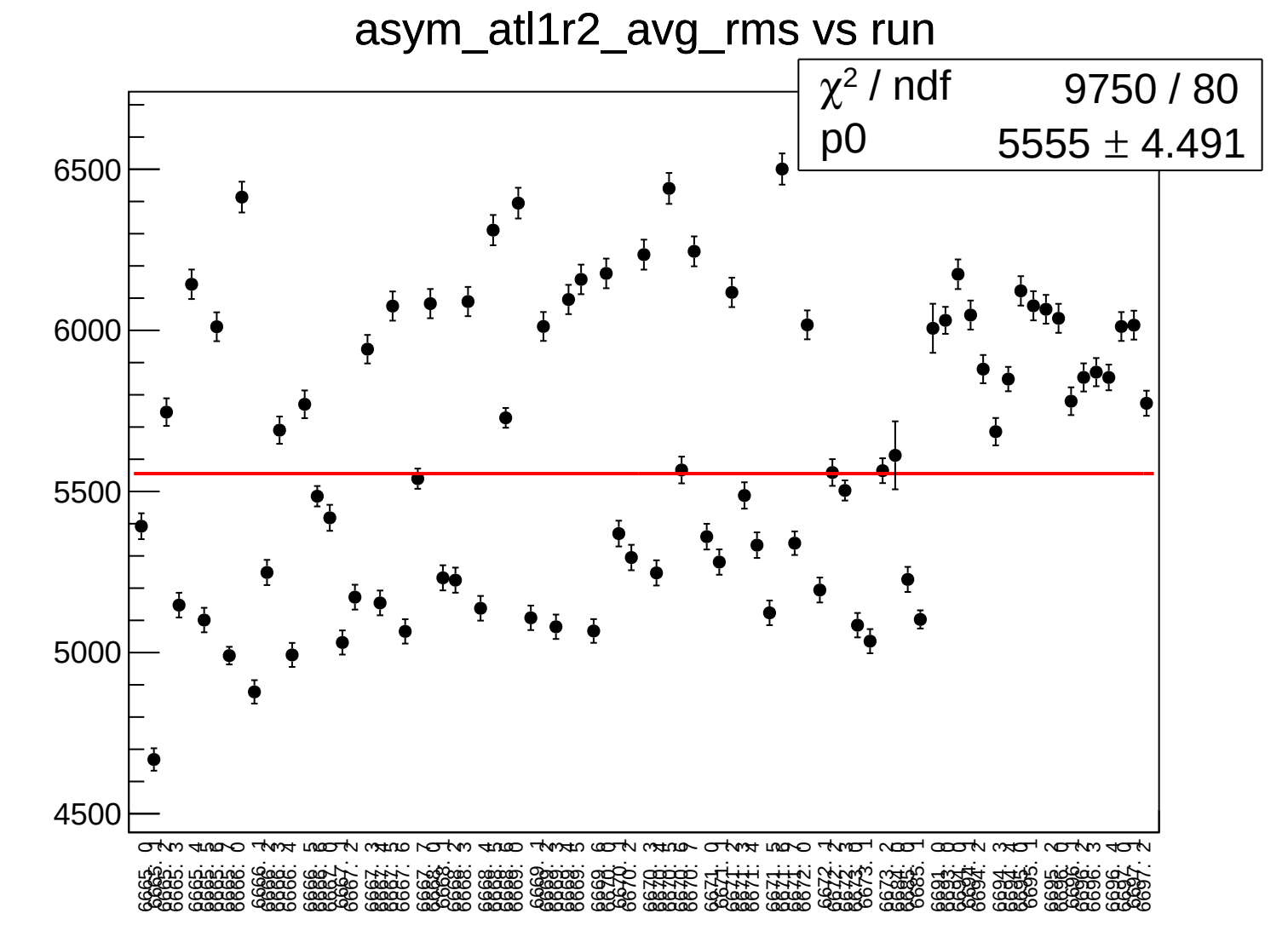

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 56.11 / 80
p0 1.328e+04 ± 5941
pull
Entries 81
Mean −539
Std Dev 629.4

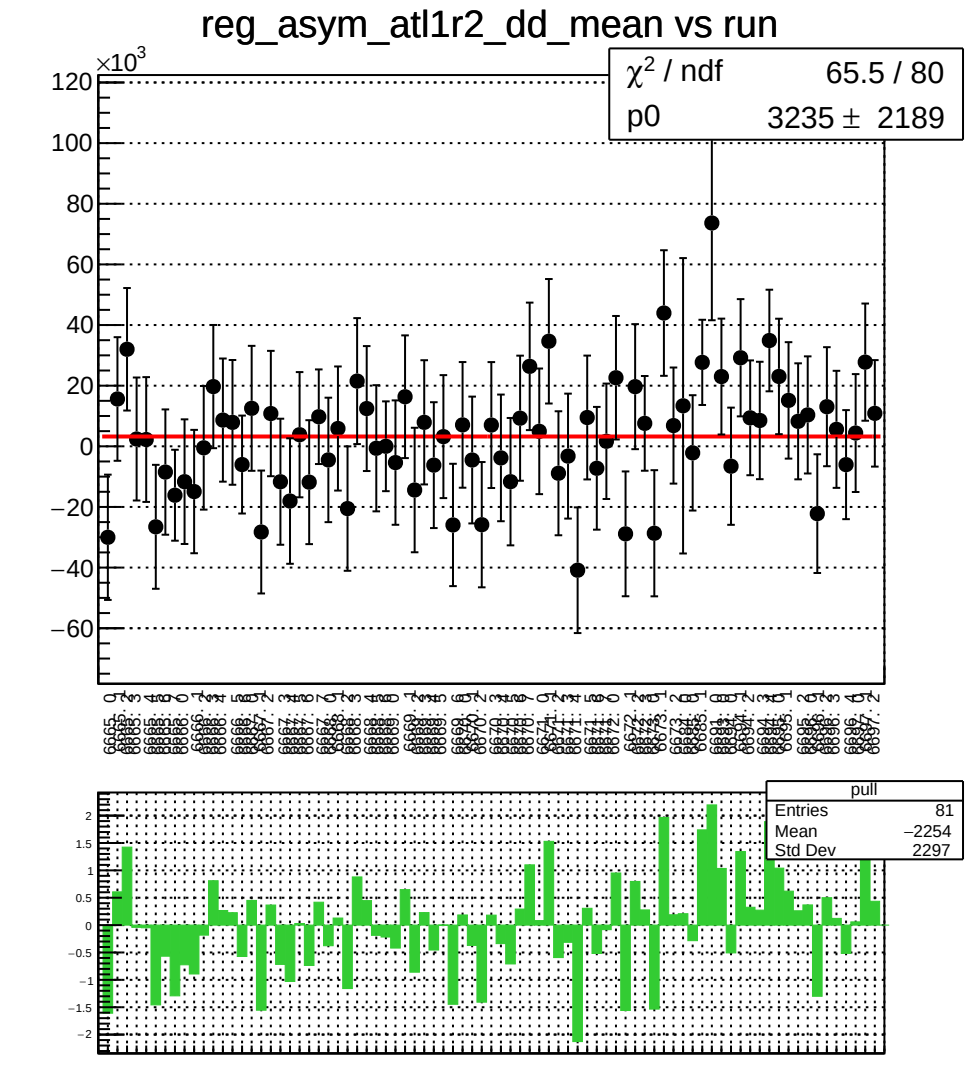

pull1D
Entries 81
Mean 0.001377
Std Dev 0.8323

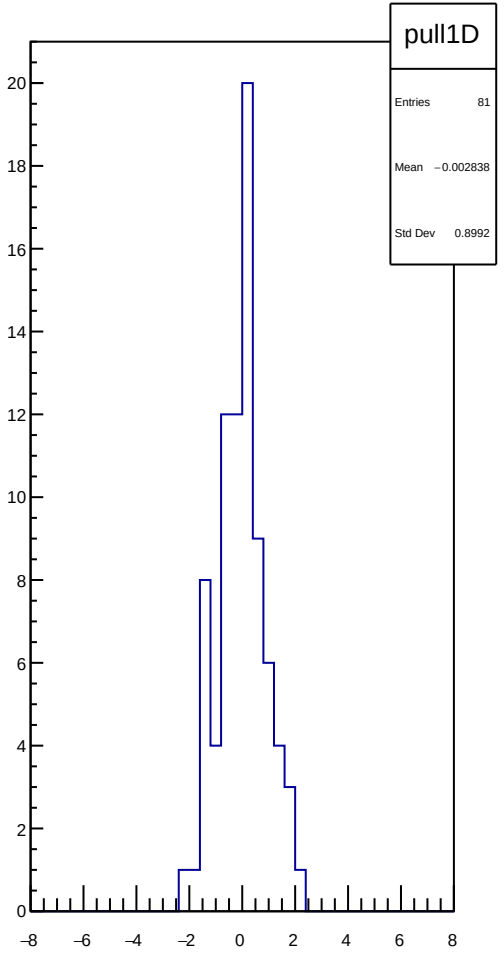

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.29e+04 / 80
p0 5191 ± 4.201
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

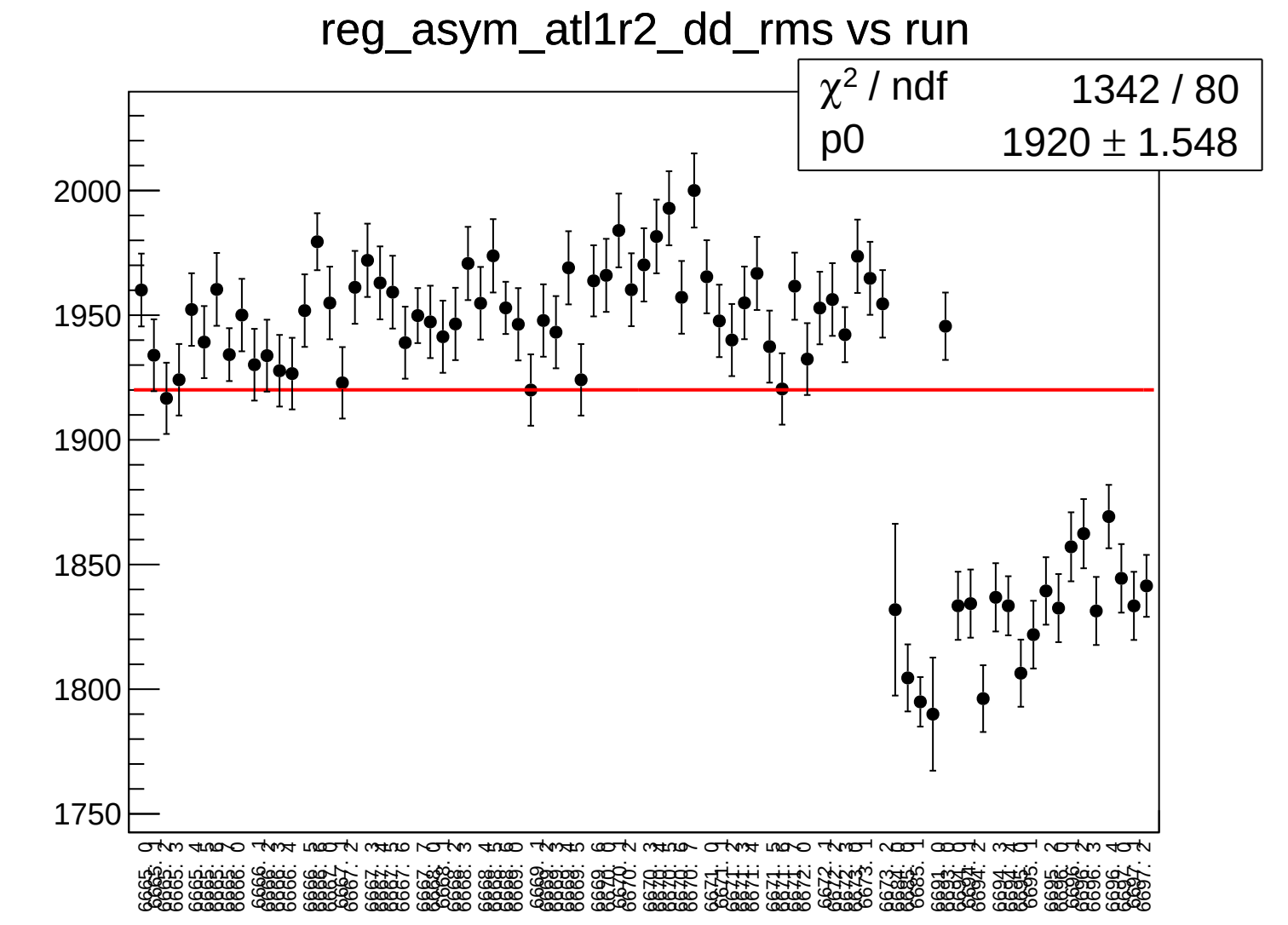

asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 58.54 / 80
p0 −1.383e+04 ± 6352
pull
Entries 81
Mean 118.1
Std Dev 45.41

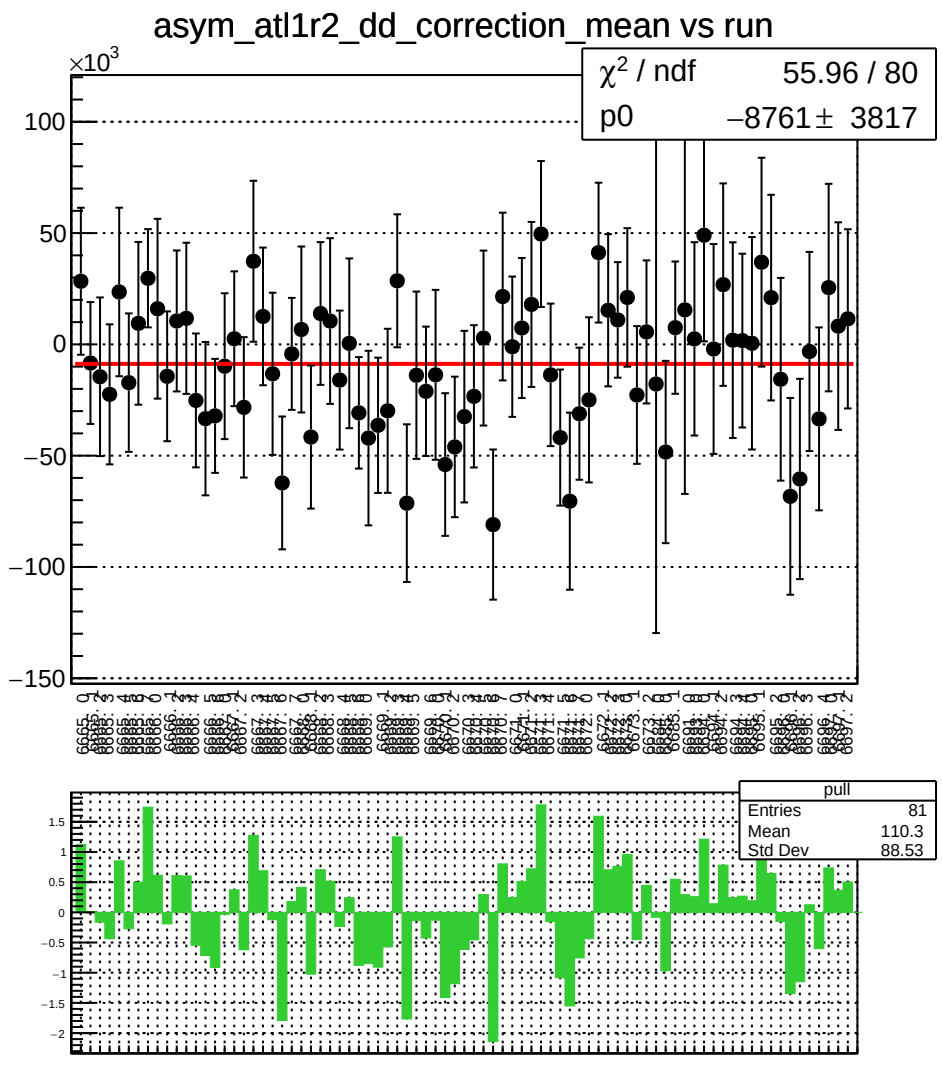

pull1D
Entries 81
Mean 0.01074
Std Dev 0.8501

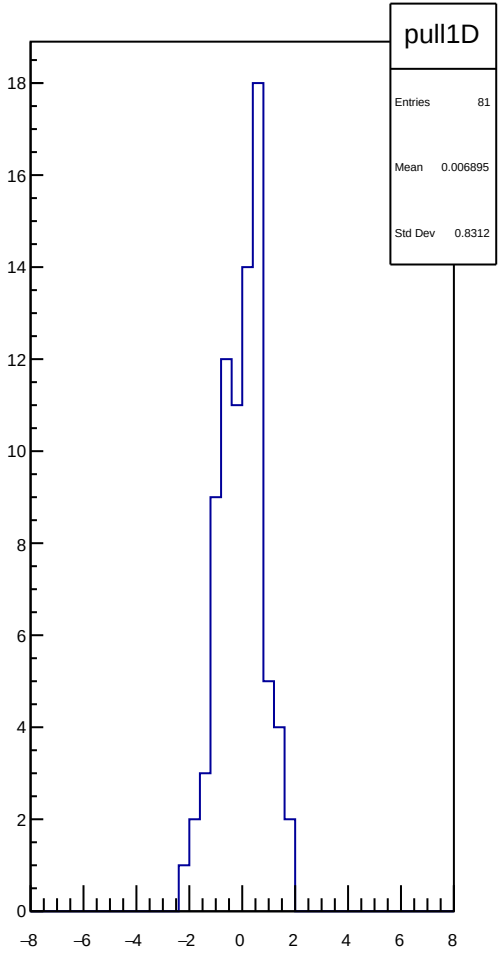

asym_atl1r2_avg_rms vs run
χ² / ndf 9750 / 80
p0 5555 ± 4.491
6500
6000
5500
5000
4500

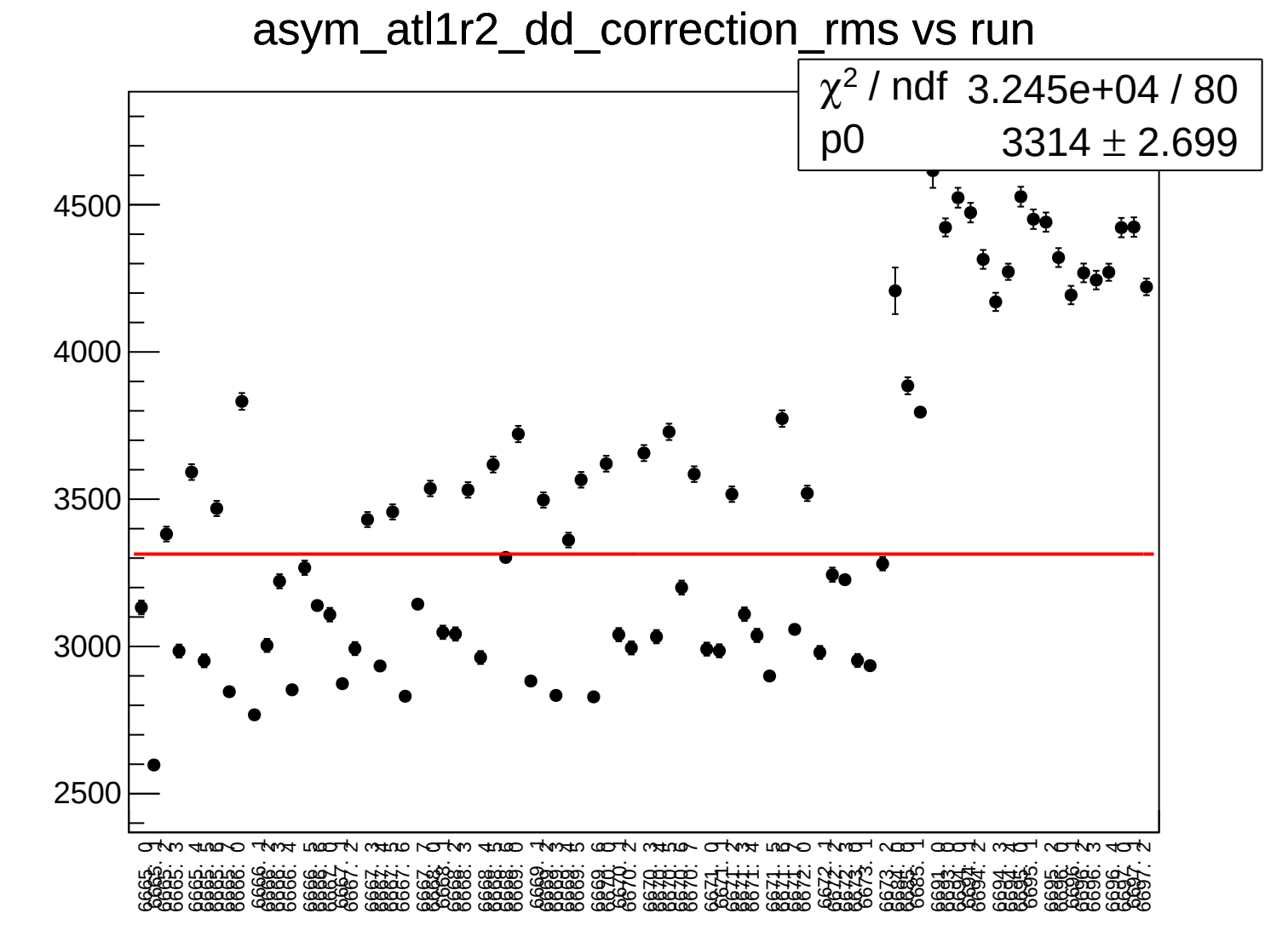

reg_asym_atl1r2_dd_mean vs run
χ² / ndf 65.5 / 80
p0 3235 ± 2189
pull
Entries 81
Mean −2254
Std Dev 2297

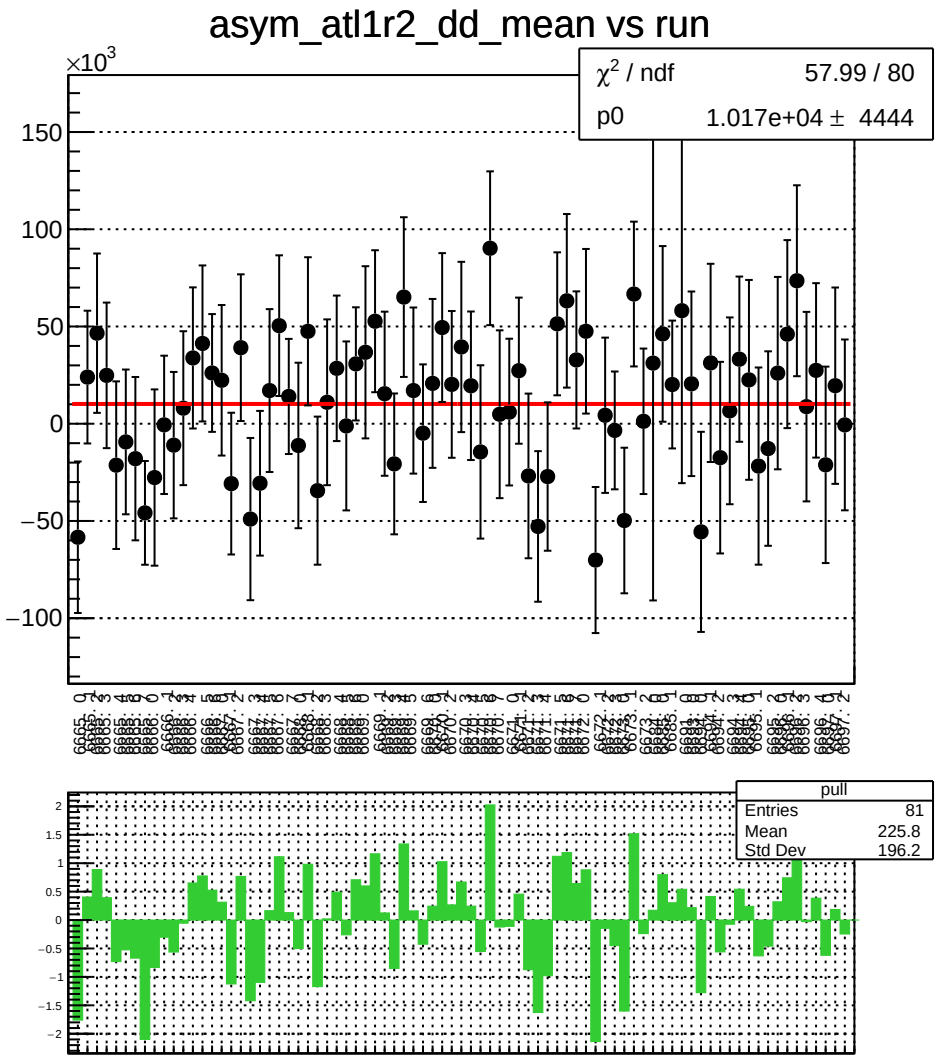

pull1D
Entries 81
Mean −0.002838
Std Dev 0.8992

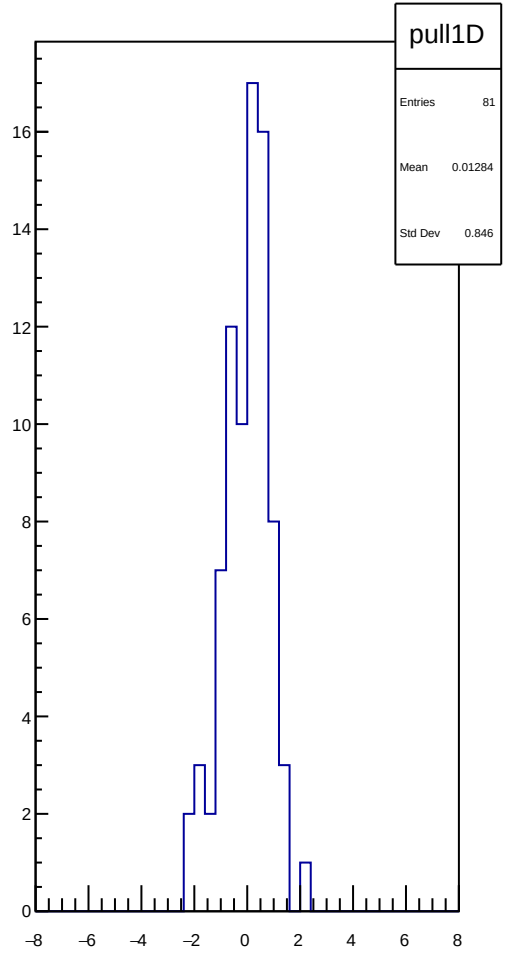

reg_asym_atl1r2_dd_rms vs run
χ² / ndf 1342 / 80
p0 1920 ± 1.548
2000
1950
1900
1850
1800
1750

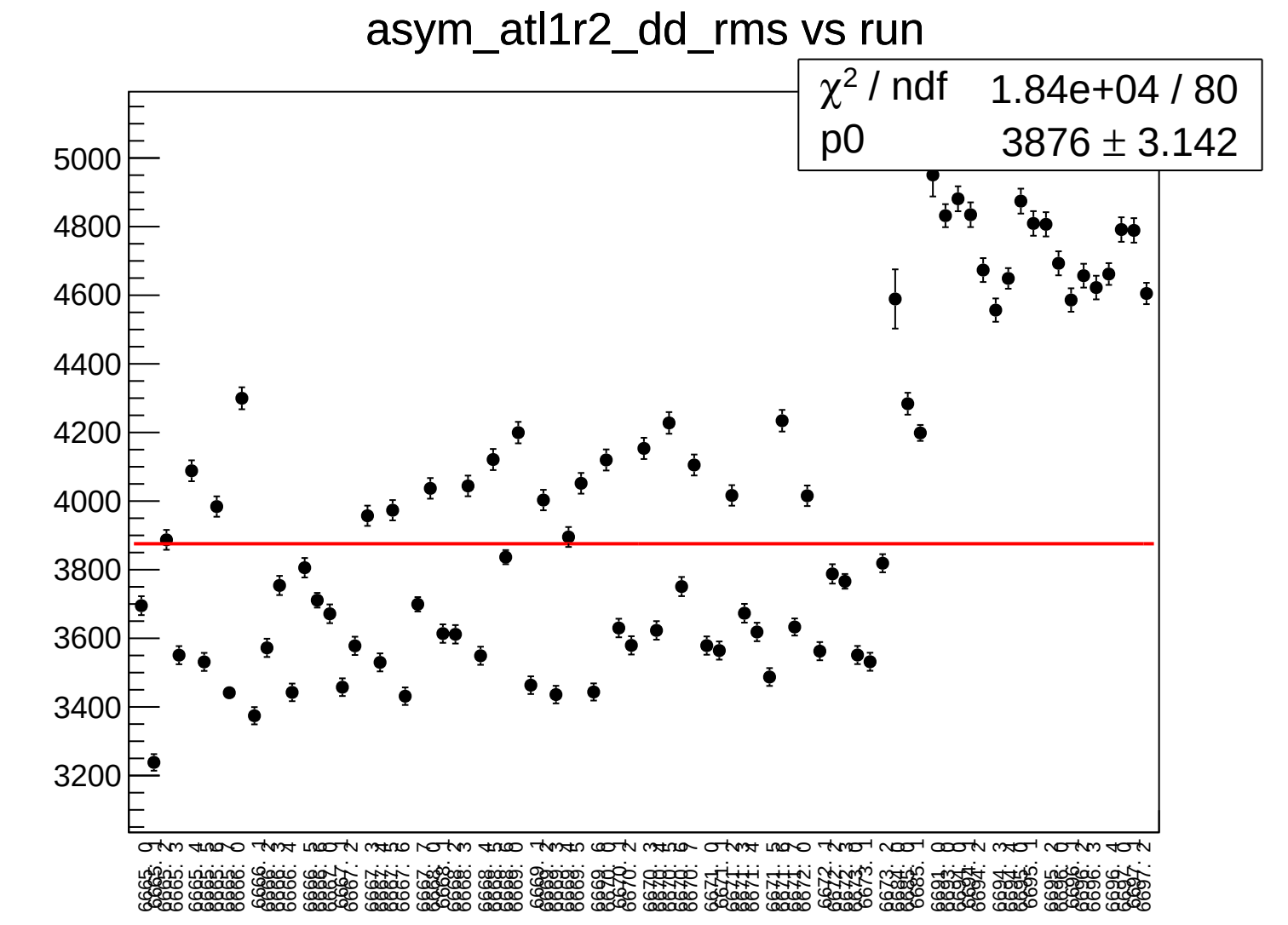

asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 55.96 / 80
p0 −8761 ± 3817
pull
Entries 81
Mean 110.3
Std Dev 88.53

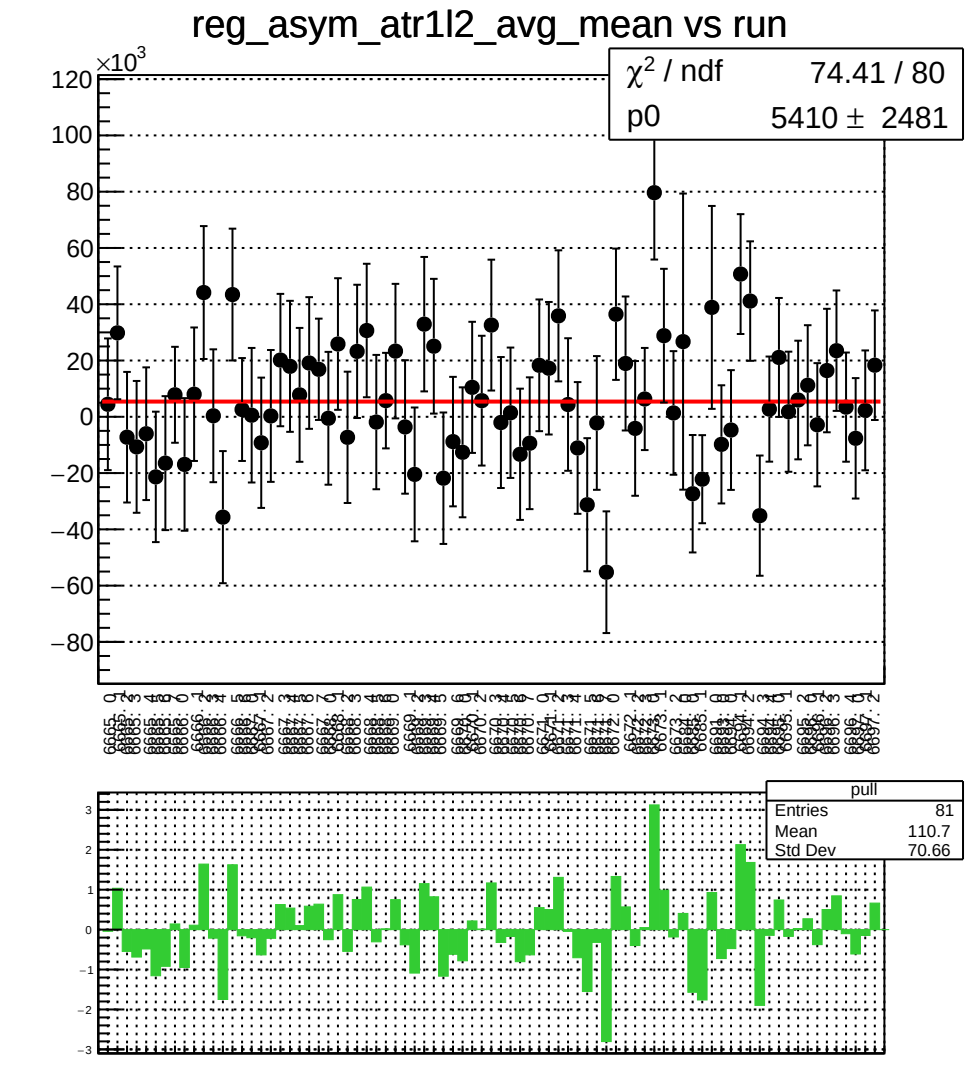

pull1D
Entries 81
Mean 0.006895
Std Dev 0.8312

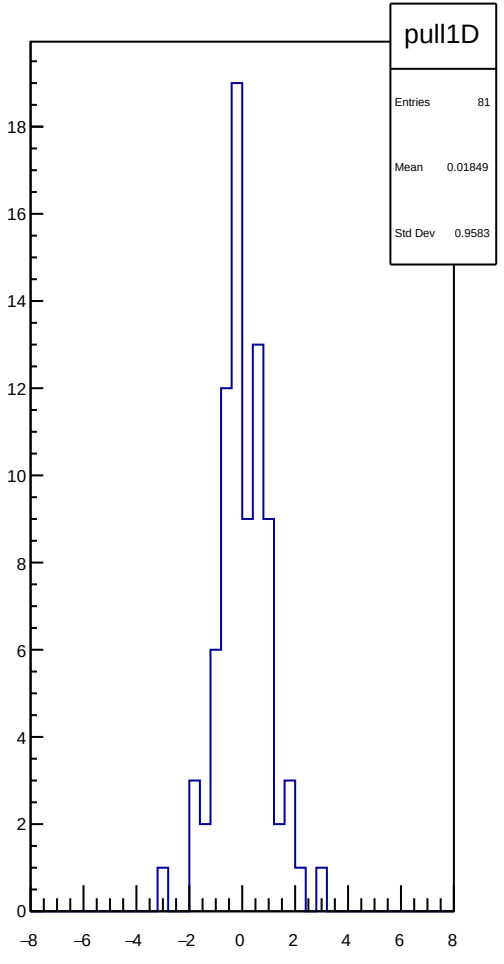

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 3.245e+04 / 80
p0 3314 ± 2.699
4500
4000
3500
3000
2500

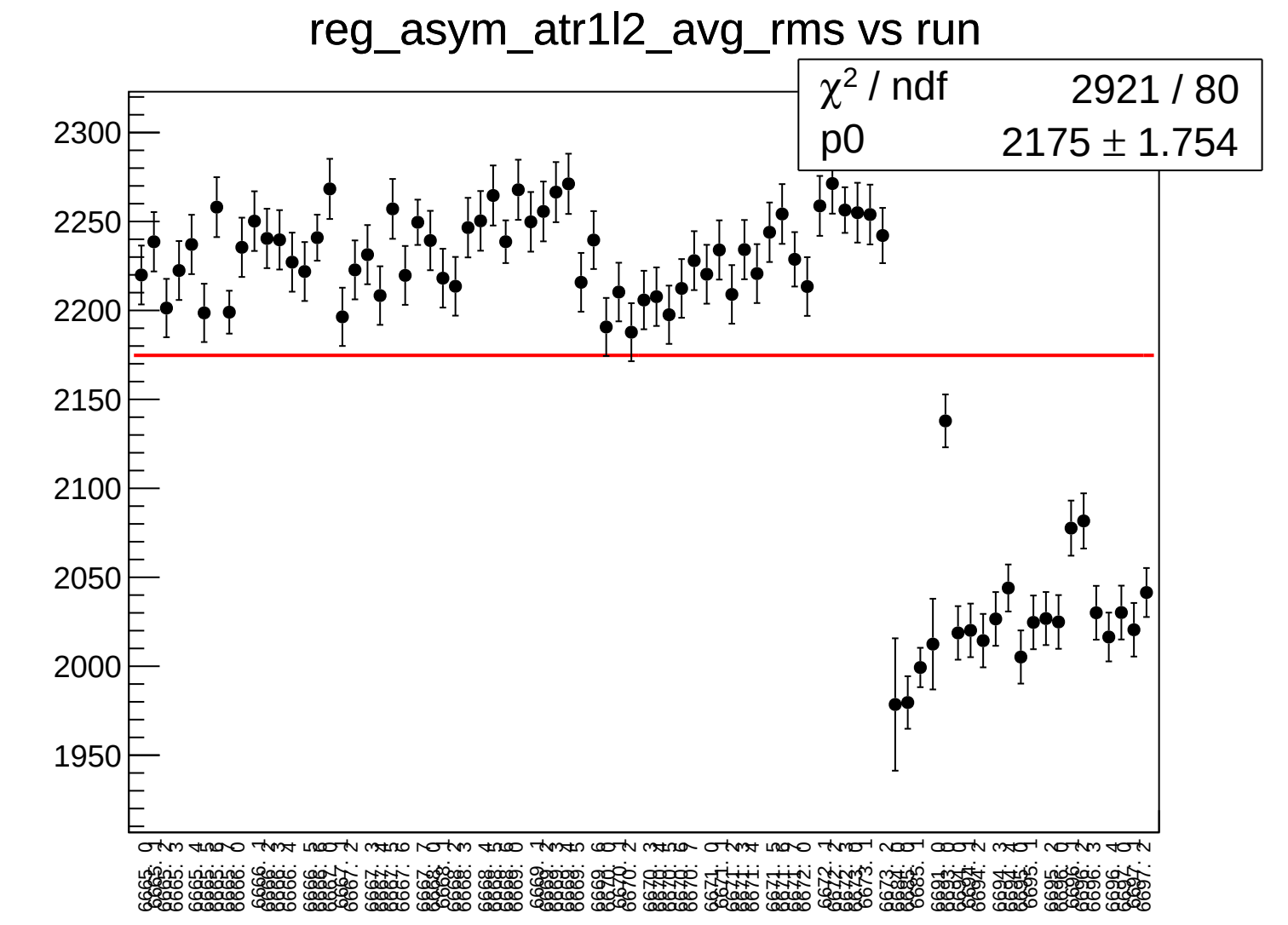

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 57.99 / 80
p0 1.017e+04 ± 4444
150
100
50
0
−50
−100
pull
Entries 81
Mean 225.8
Std Dev 196.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

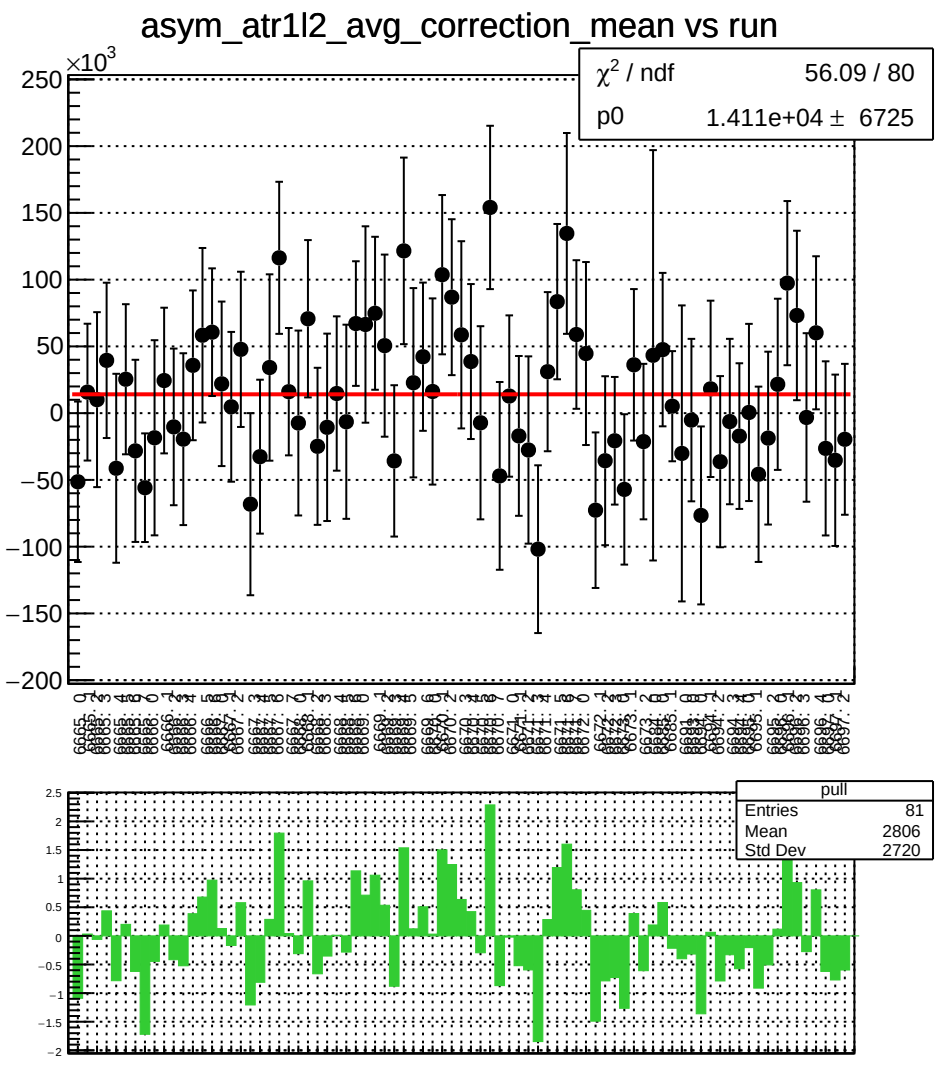

pull1D
Entries 81
Mean 0.01284
Std Dev 0.846
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

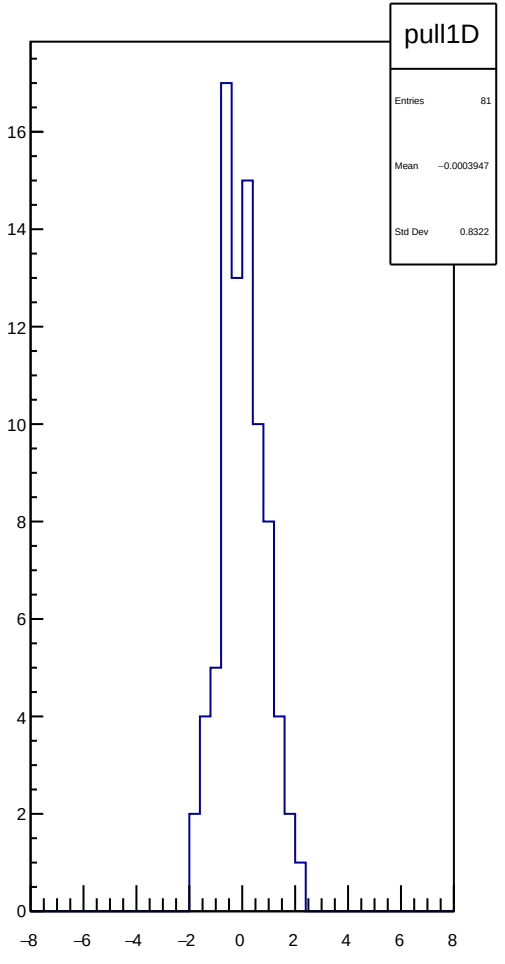

asym_atl1r2_dd_rms vs run
χ² / ndf 1.84e+04 / 80
p0 3876 ± 3.142
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

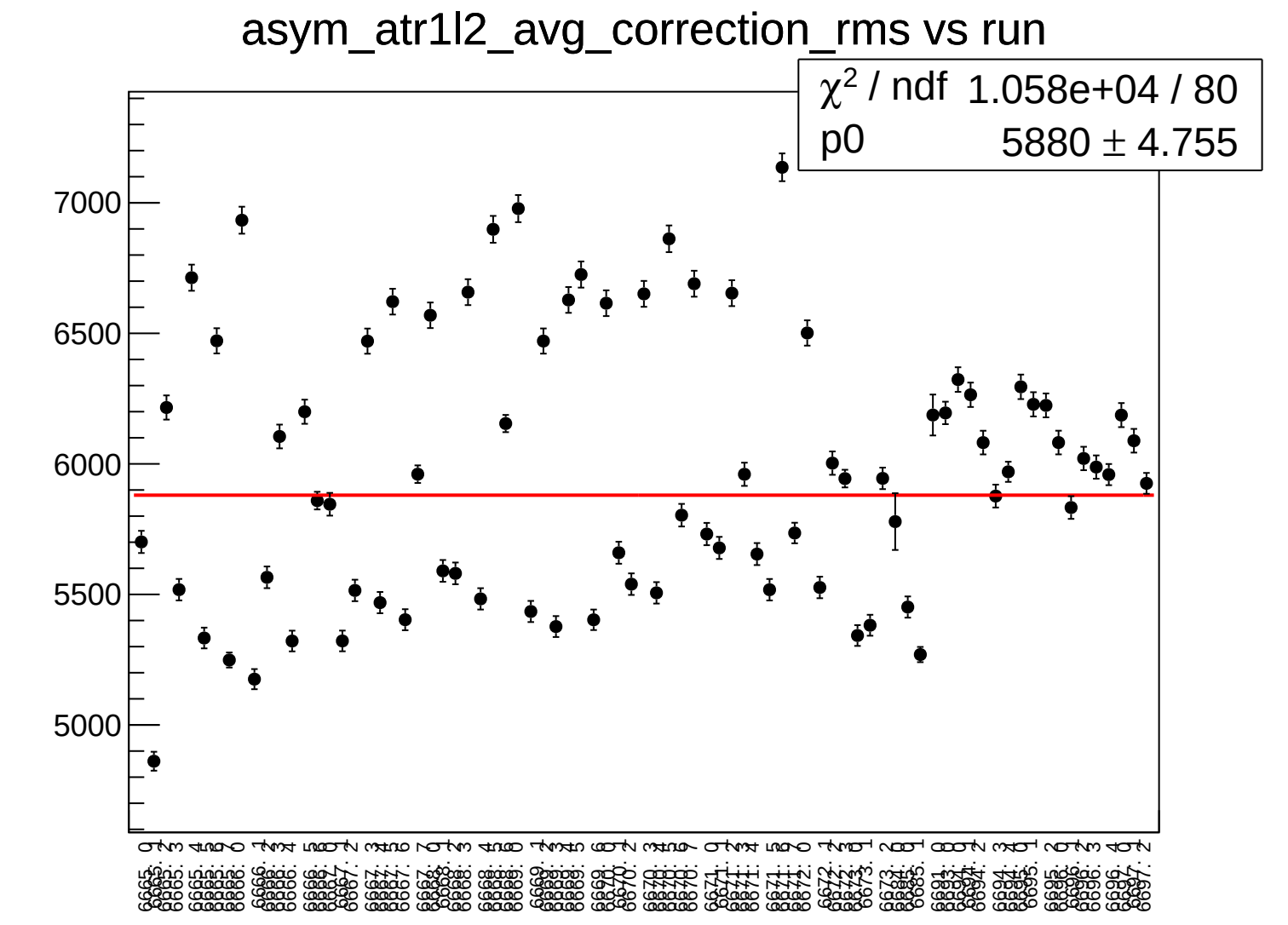

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 74.41 / 80
p0 5410 ± 2481
pull
Entries 81
Mean 110.7
Std Dev 70.66

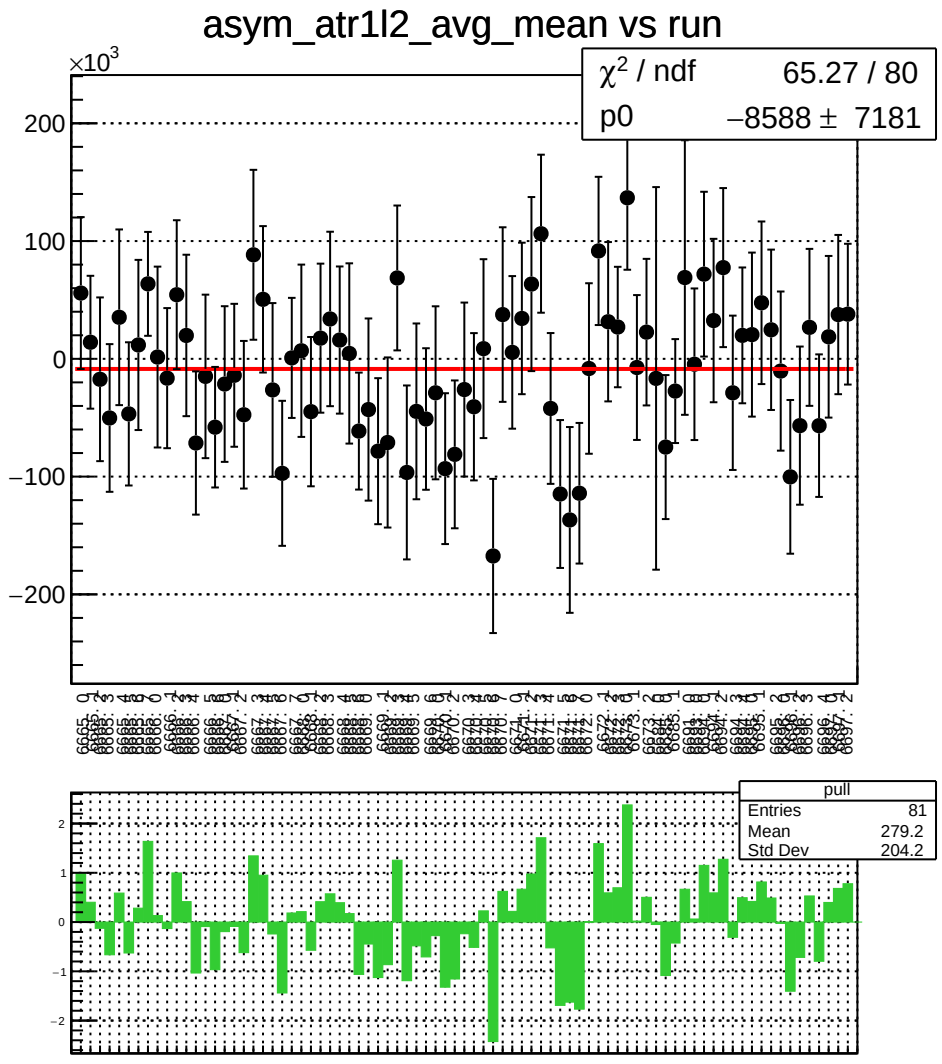

pull1D
Entries 81
Mean 0.01849
Std Dev 0.9583

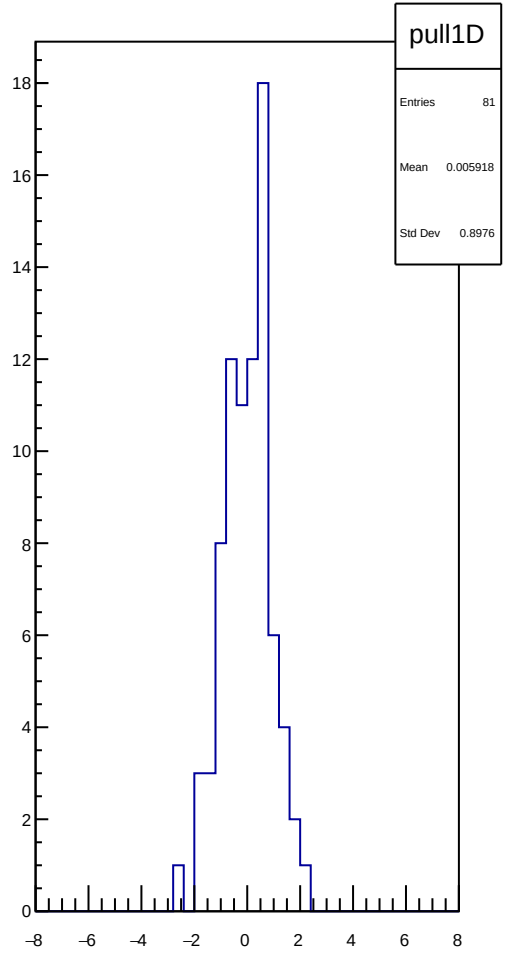

reg_asym_atr1l2_avg_rms vs run
χ² / ndf 2921 / 80
p0 2175 ± 1.754
2300
2250
2200
2150
2100
2050
2000
1950

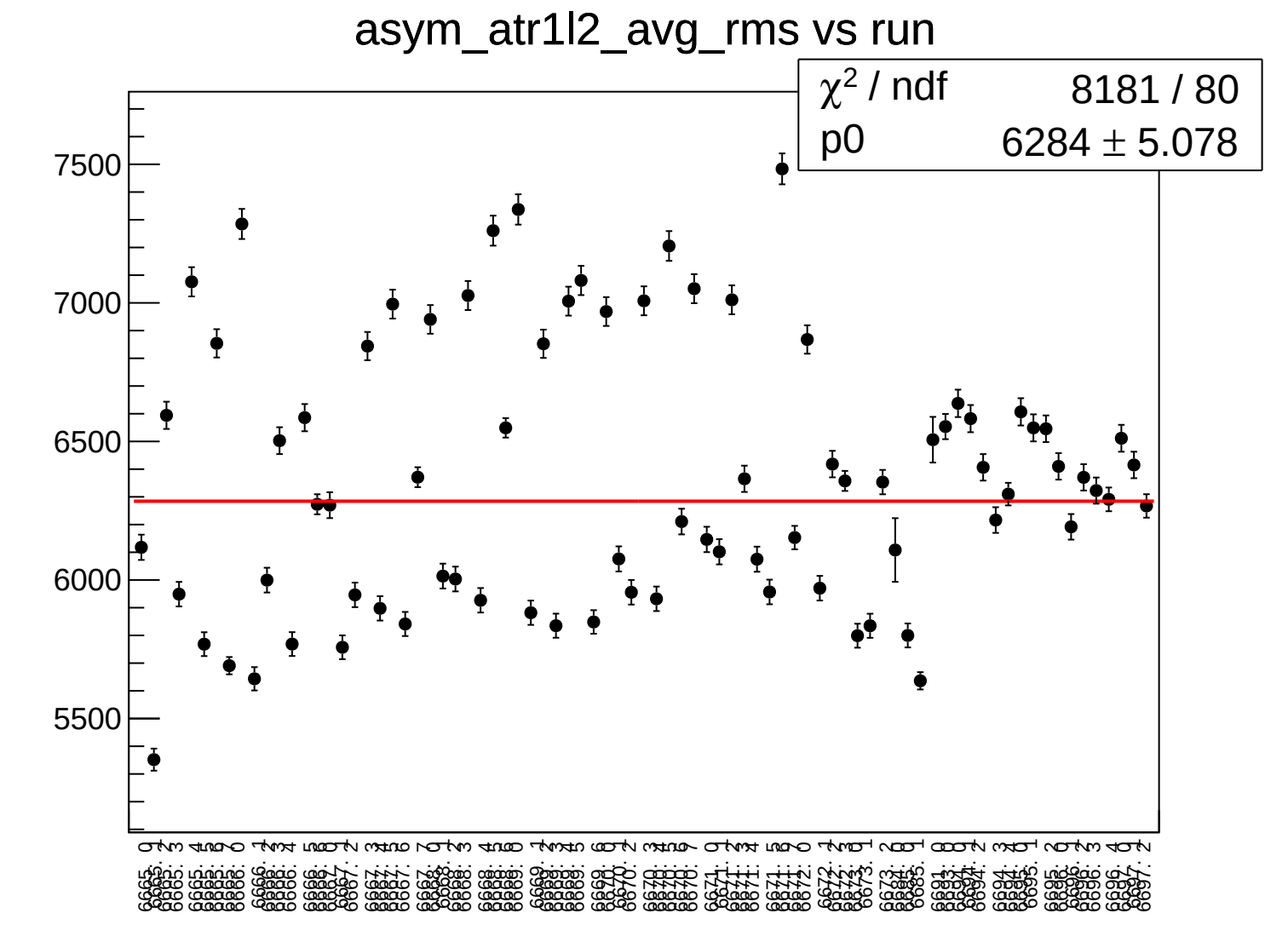

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 56.09 / 80
p0 1.411e+04 ± 6725
pull
Entries 81
Mean 2806
Std Dev 2720

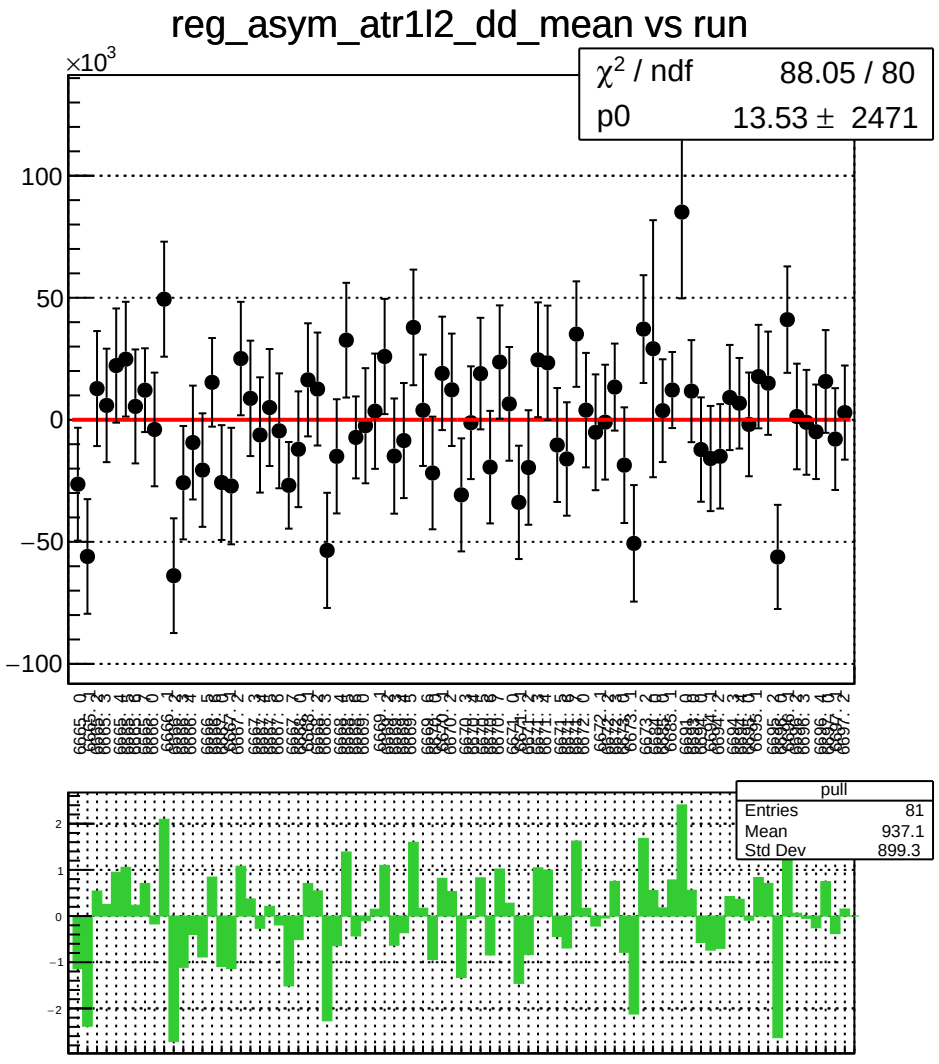

pull1D
Entries 81
Mean −0.0003947
Std Dev 0.8322

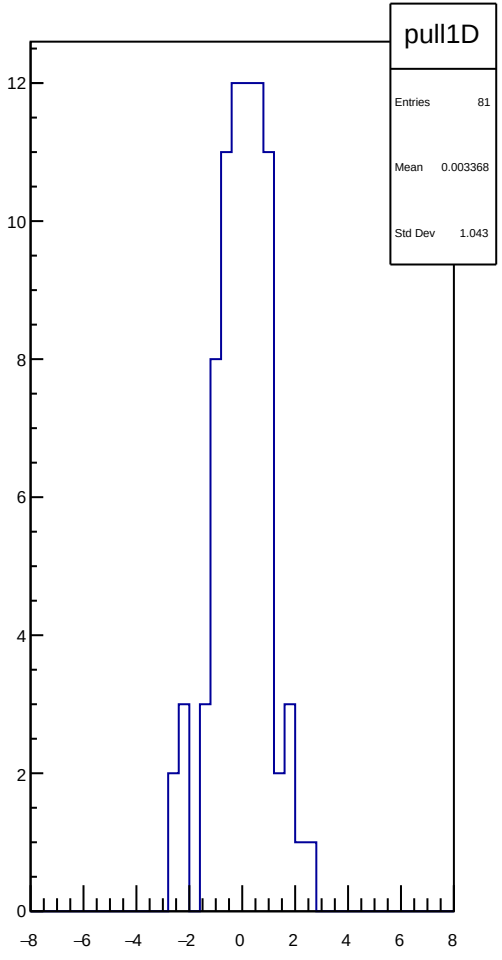

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.058e+04 / 80
p0 5880 ± 4.755
7000
6500
6000
5500
5000

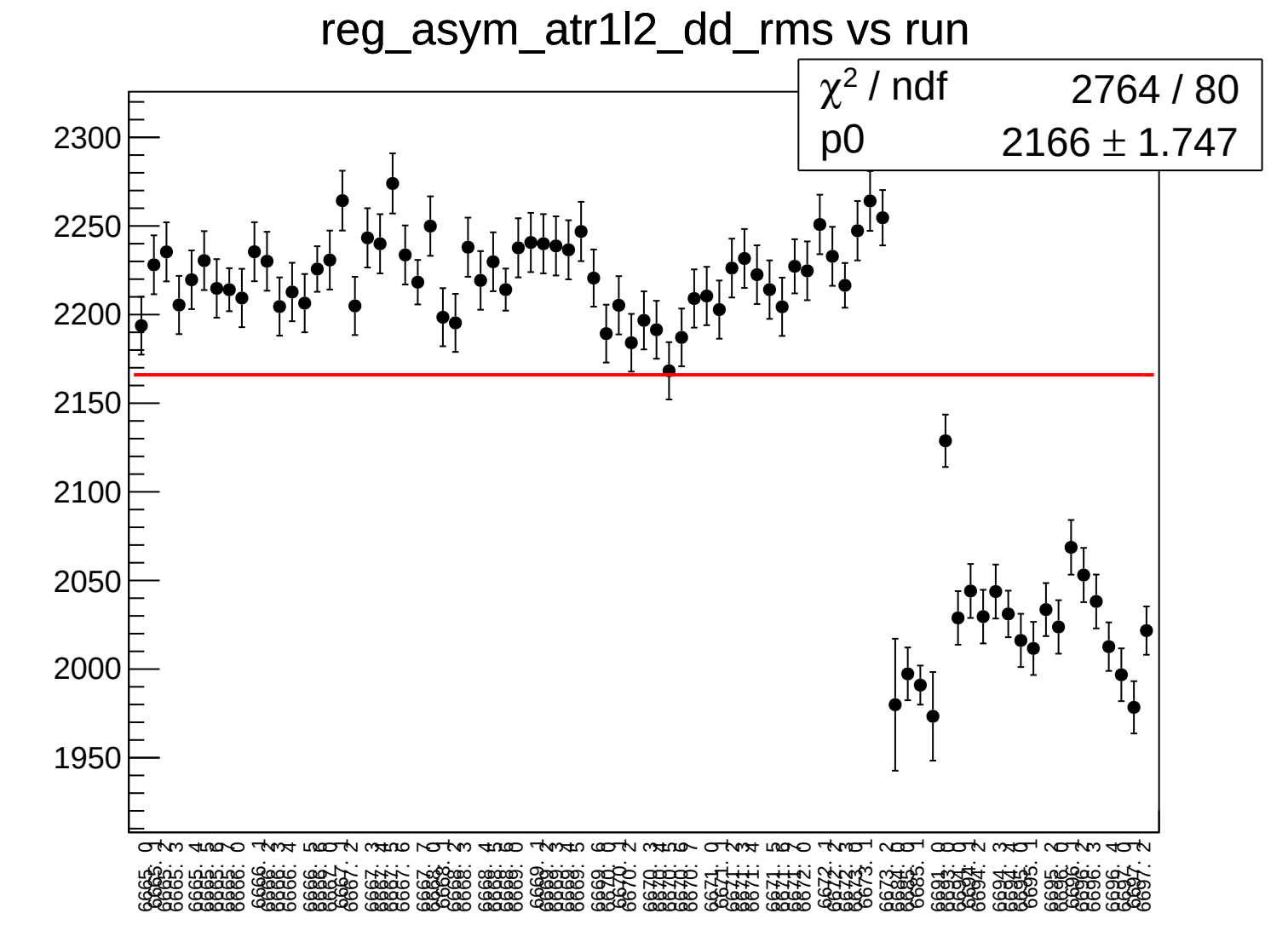

asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 65.27 / 80
p0 −8588 ± 7181
200
100
0
−100
−200
pull
Entries 81
Mean 279.2
Std Dev 204.2
2
1
0
−1
−2

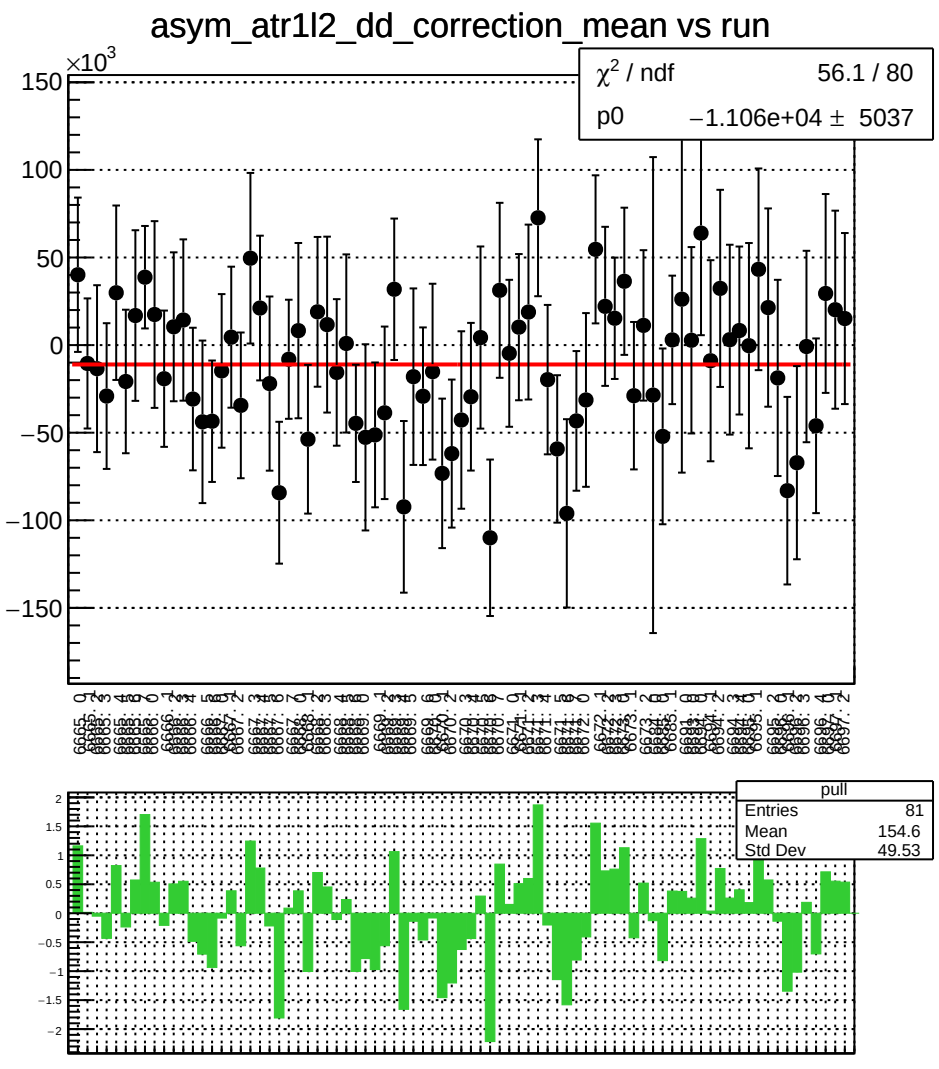

pull1D
Entries 81
Mean 0.005918
Std Dev 0.8976
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

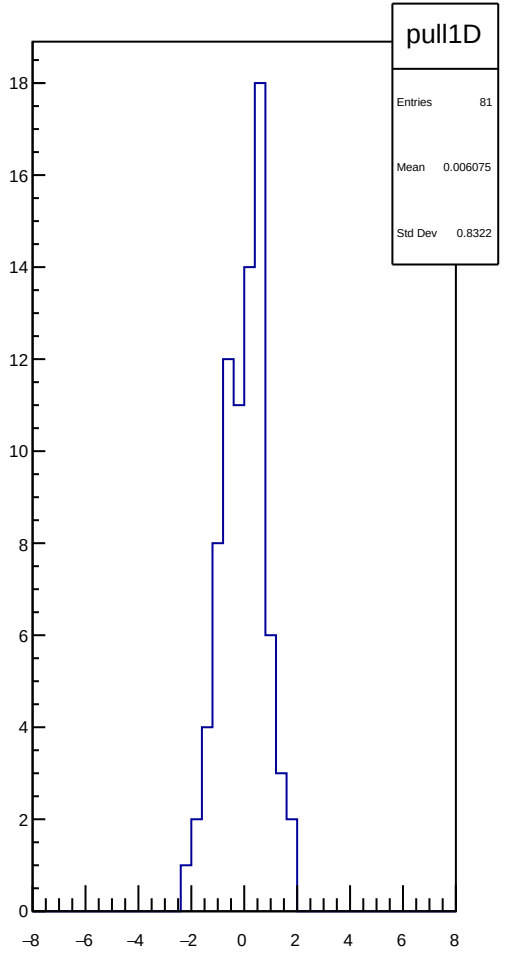

asym_atr1l2_avg_rms vs run
χ^2 / ndf 8181 / 80
p0 6284 ± 5.078
7500
7000
6500
6000
5500

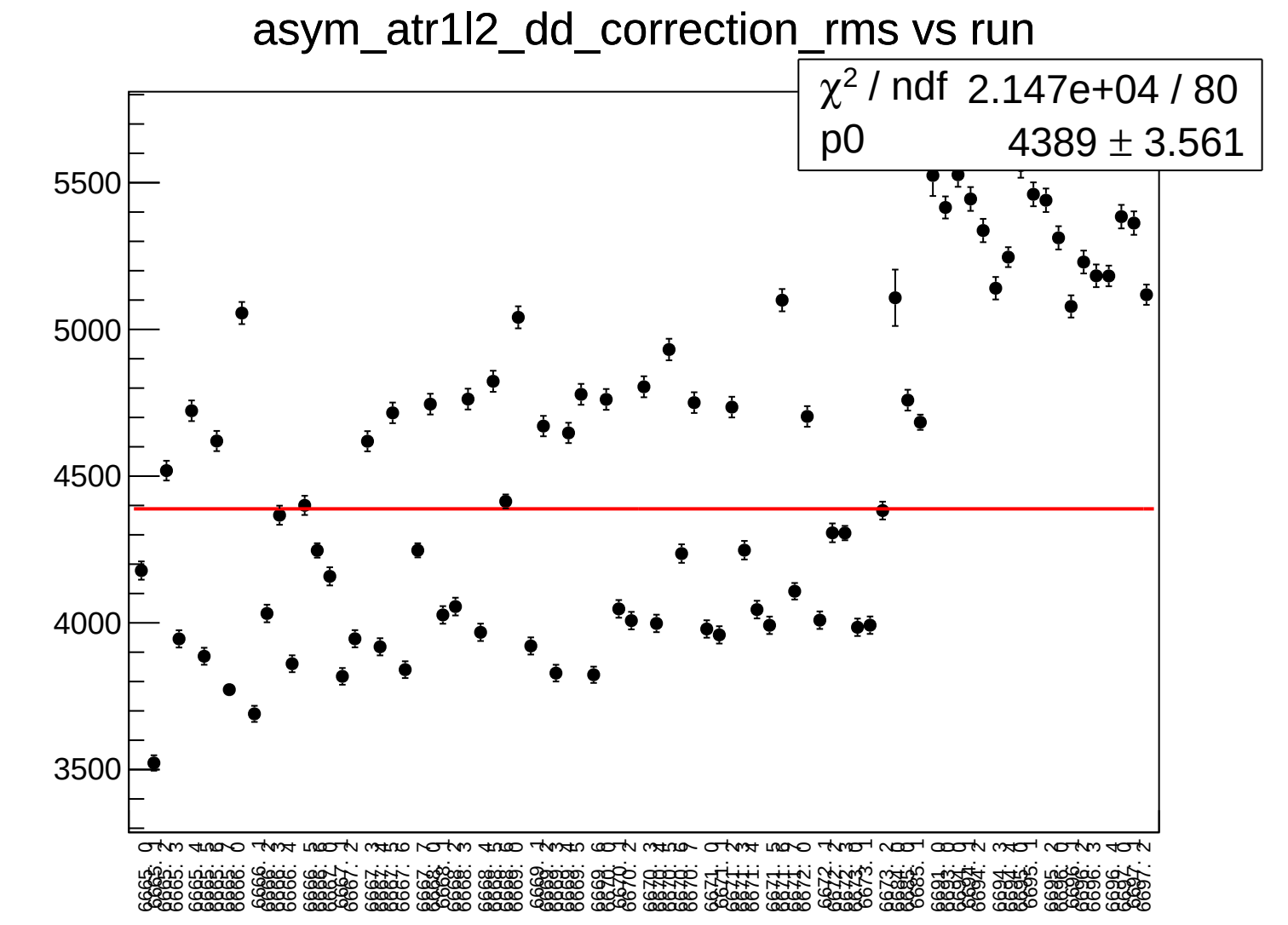

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 88.05 / 80
p0 13.53 ± 2471
100
50
0
−50
−100
pull
Entries 81
Mean 937.1
Std Dev 899.3
2
1
0
−1
−2

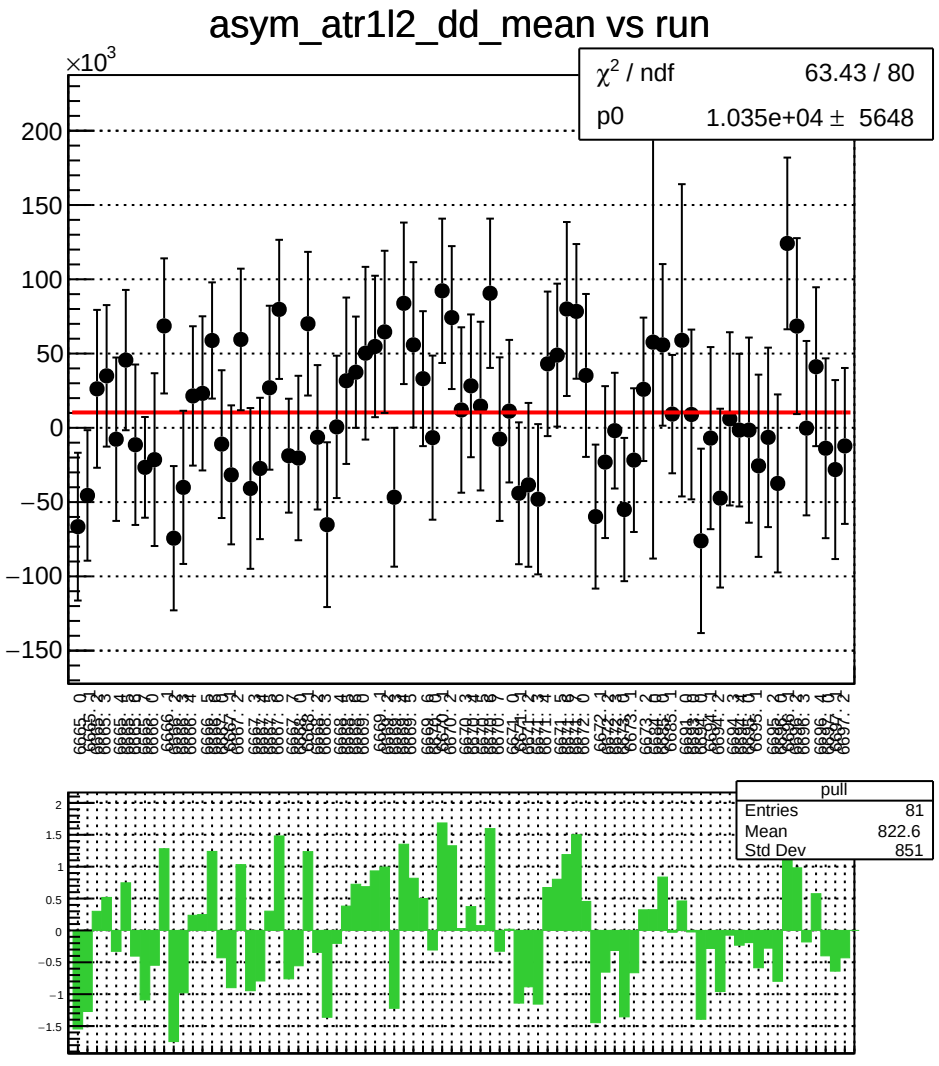

pull1D
Entries 81
Mean 0.003368
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

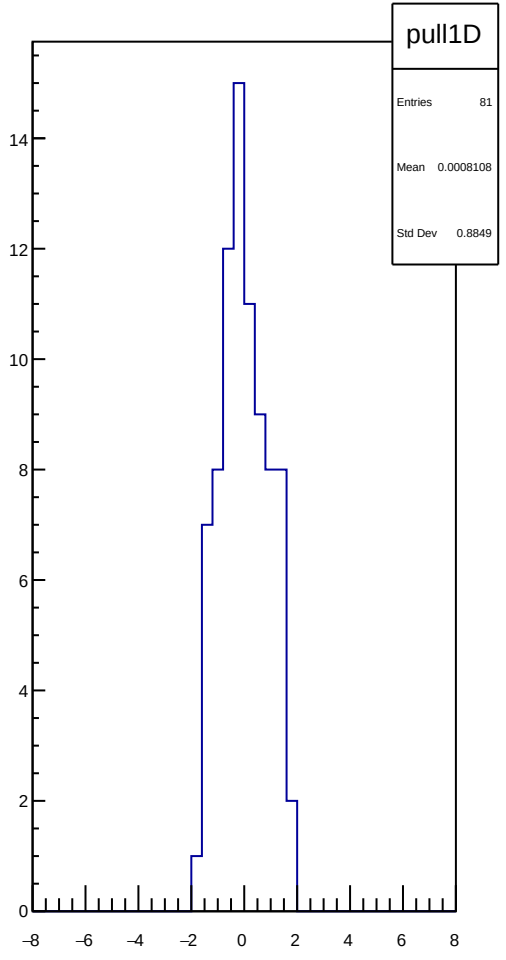

reg_asym_atr1l2_dd_rms vs run
χ² / ndf 2764 / 80
p0 2166 ± 1.747
2300
2250
2200
2150
2100
2050
2000
1950

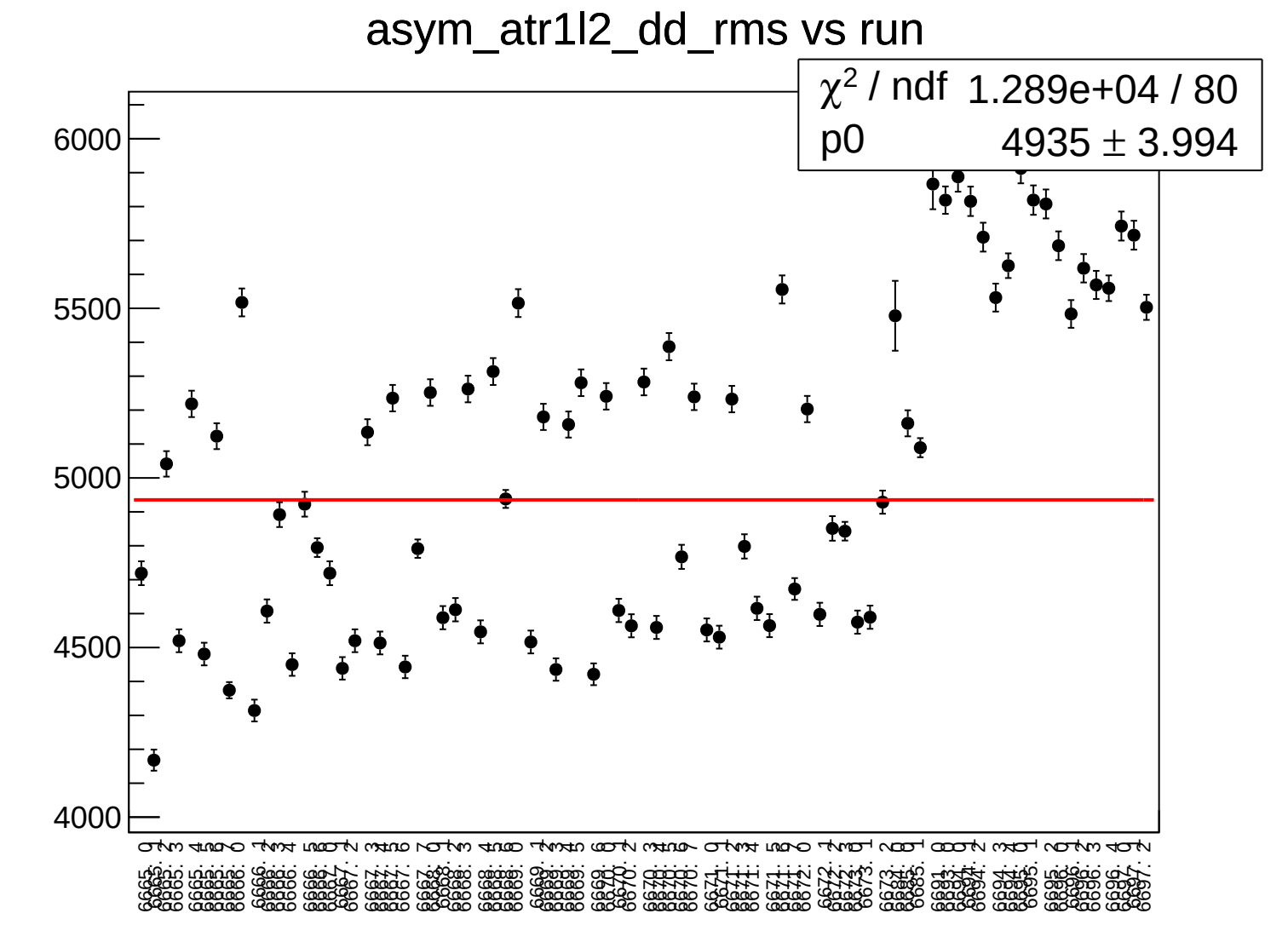

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 56.1 / 80
p0 −1.106e+04 ± 5037
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 154.6
Std Dev 49.53
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

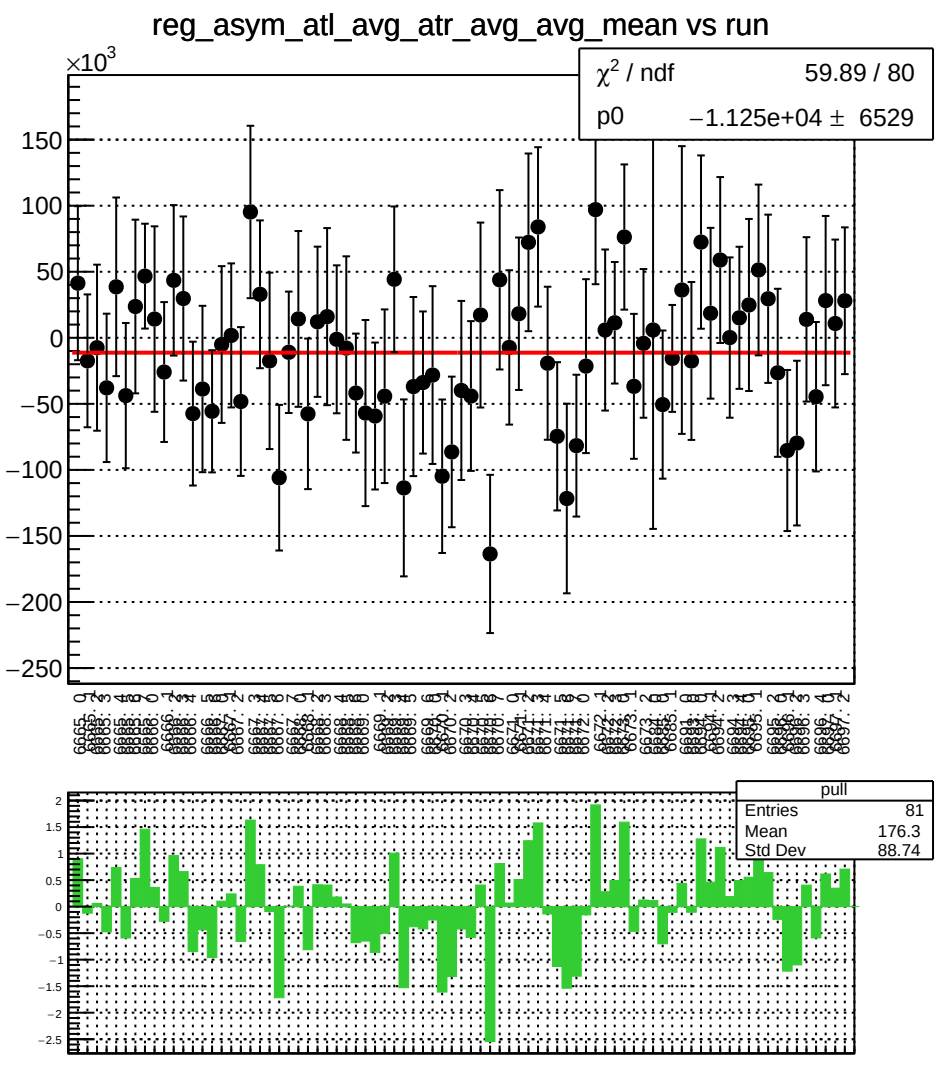

pull1D
Entries 81
Mean 0.006075
Std Dev 0.8322
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

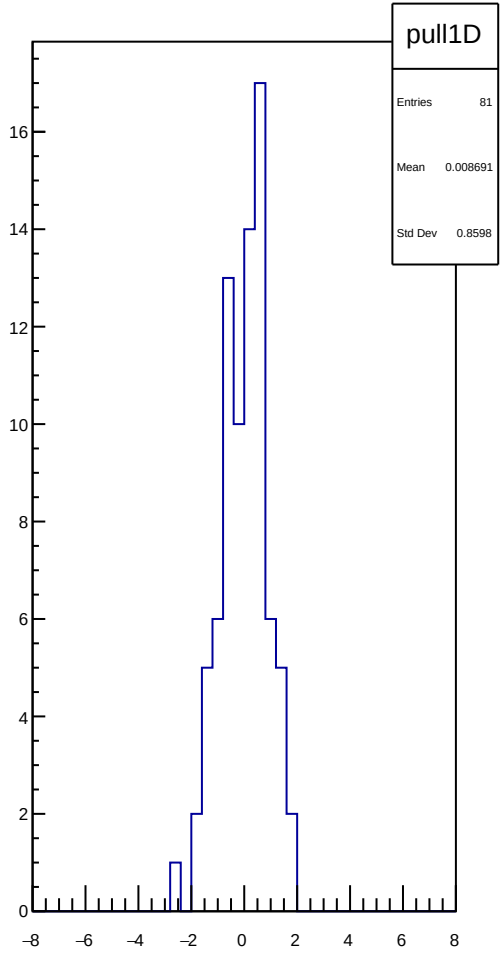

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2.147e+04 / 80
p0 4389 ± 3.561
5500
5000
4500
4000
3500

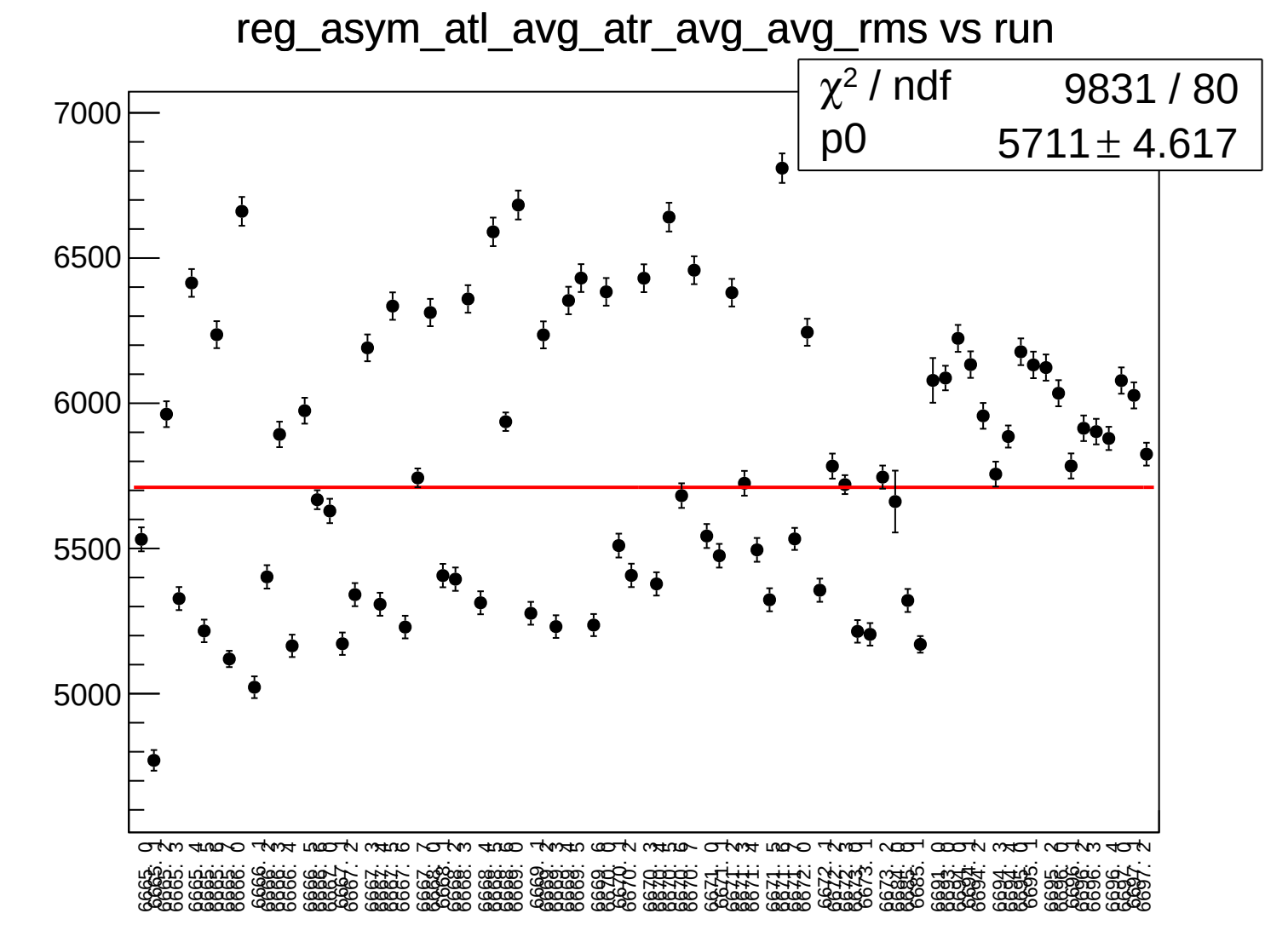

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 63.43 / 80
p0 1.035e+04 ± 5648
pull
Entries 81
Mean 822.6
Std Dev 851

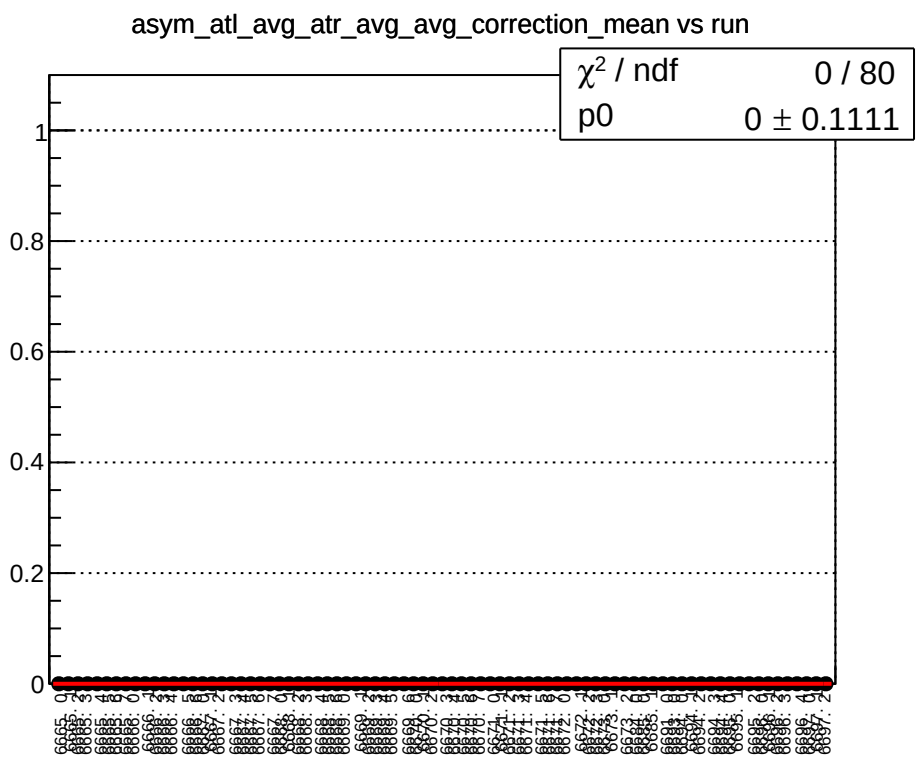

pull1D
Entries 81
Mean 0.0008108
Std Dev 0.8849

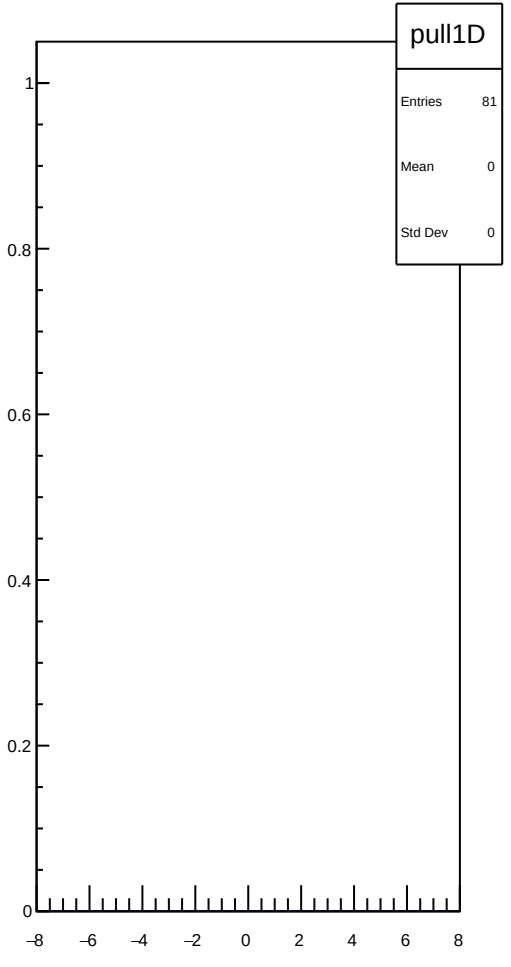

asym_atr1l2_dd_rms vs run
χ² / ndf 1.289e+04 / 80
p0 4935 ± 3.994
6000
5500
5000
4500
4000

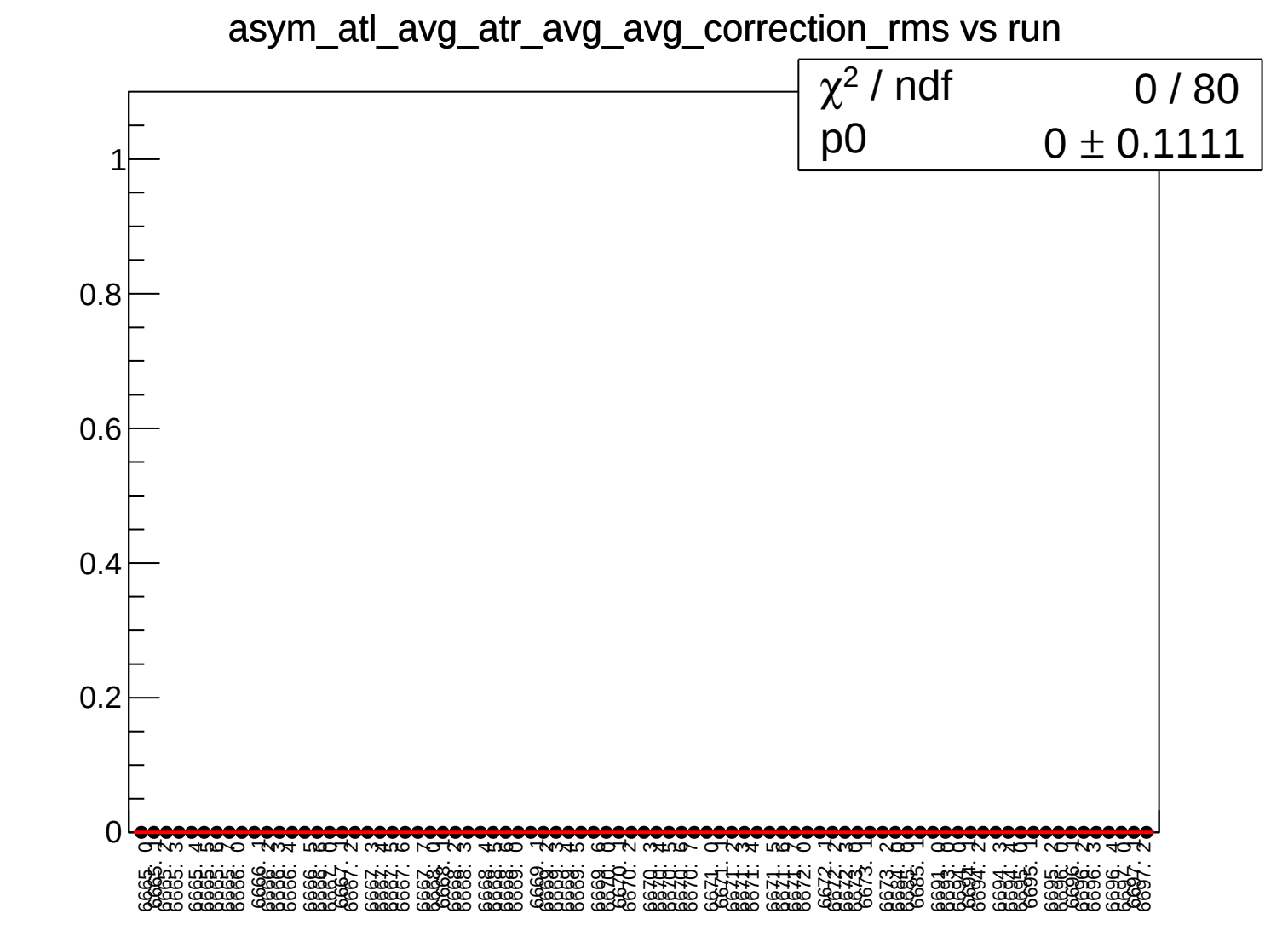

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 59.89 / 80
p0 −1.125e+04 ± 6529
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 176.3
Std Dev 88.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

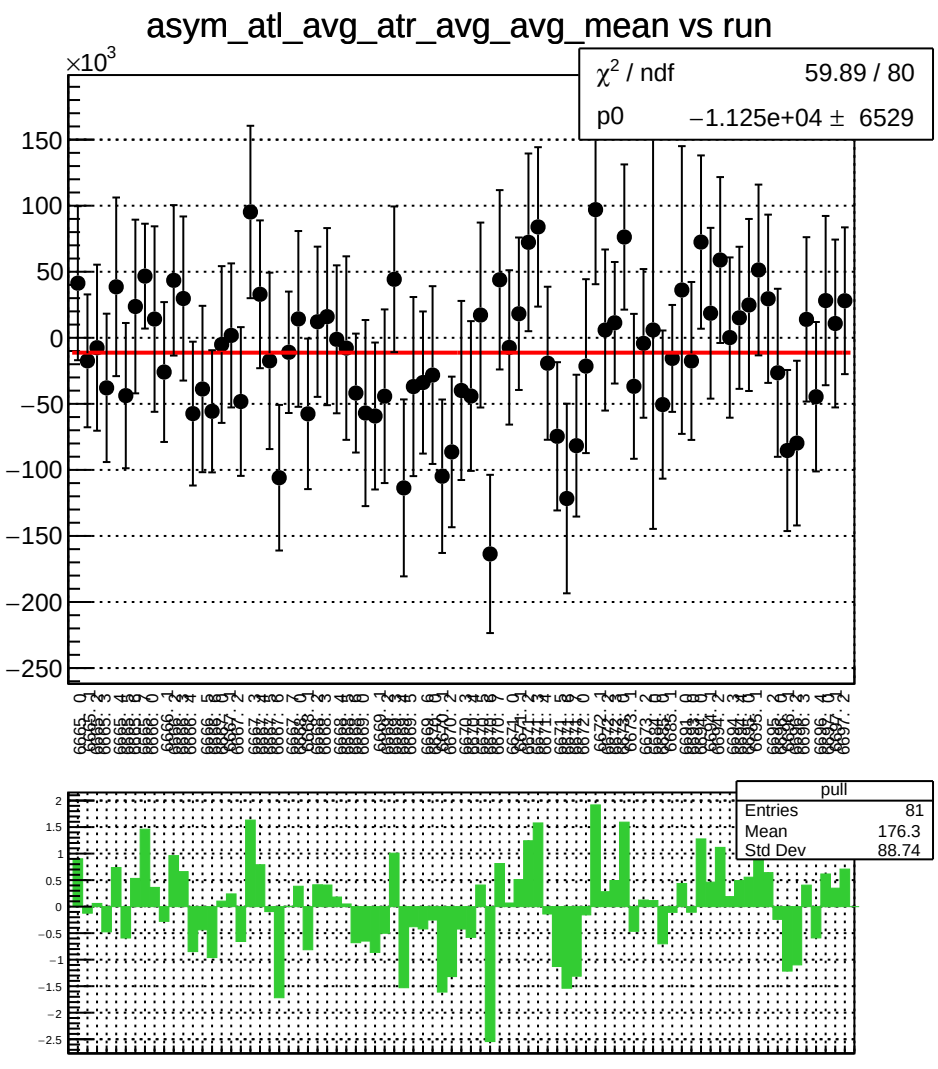

pull1D
Entries 81
Mean 0.008691
Std Dev 0.8598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

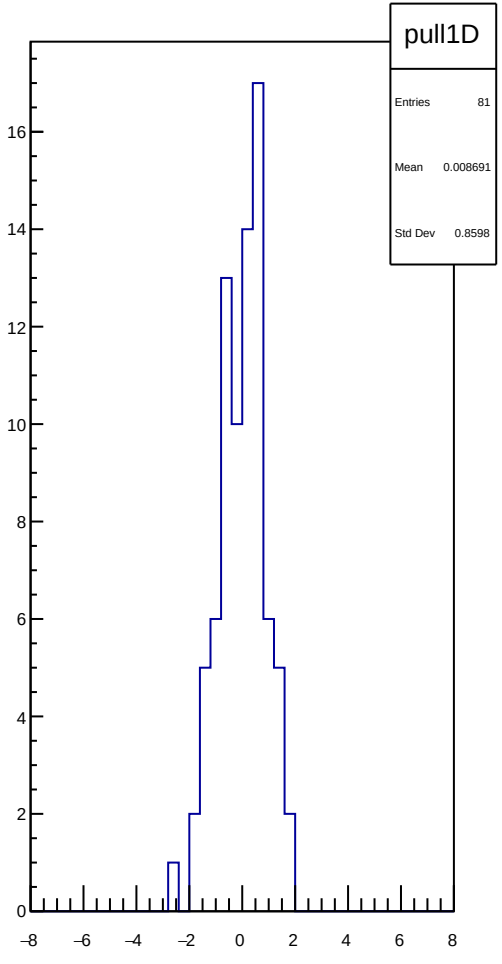

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 9831 / 80
p0 5711 ± 4.617
7000
6500
6000
5500
5000

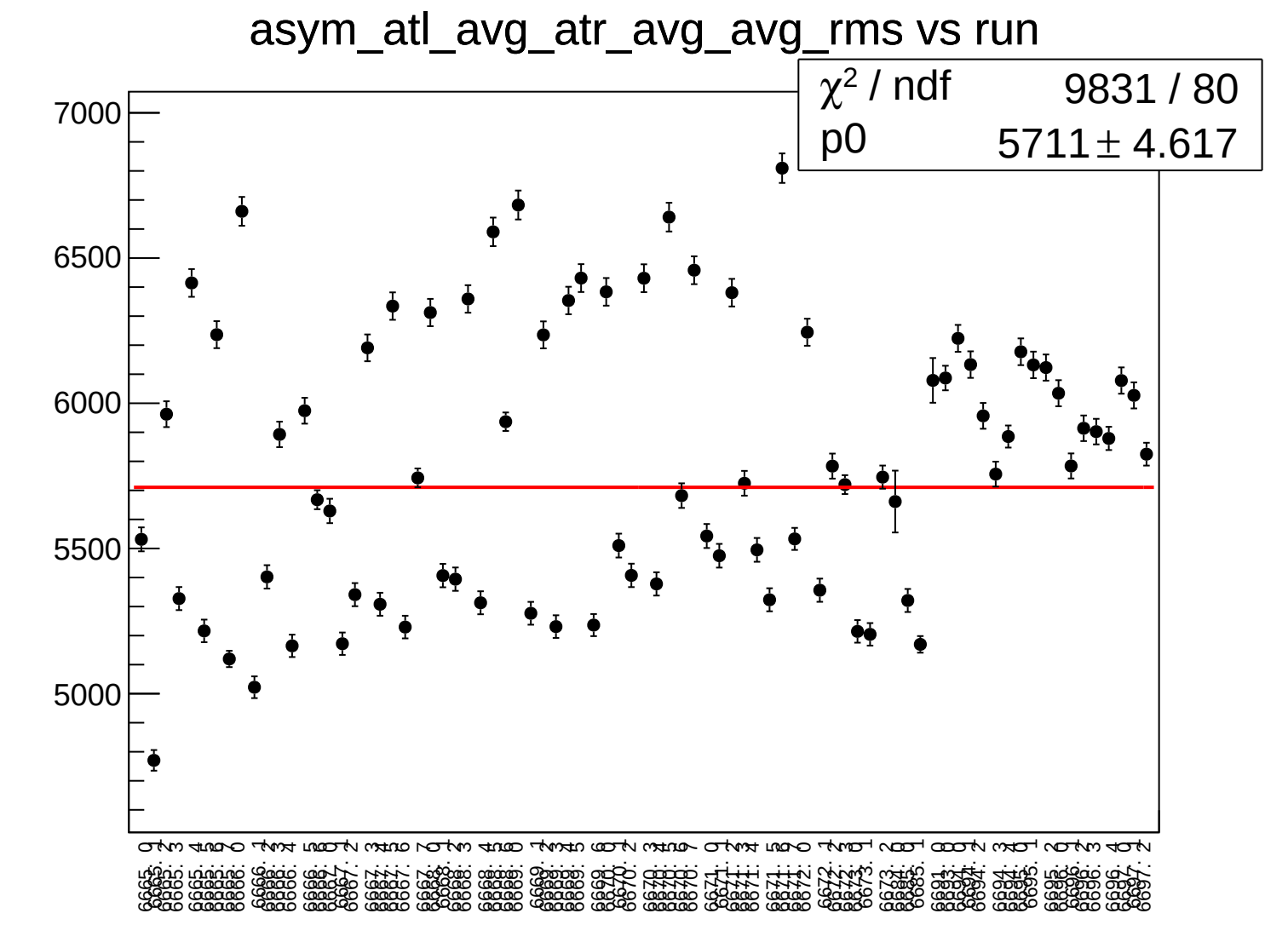

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

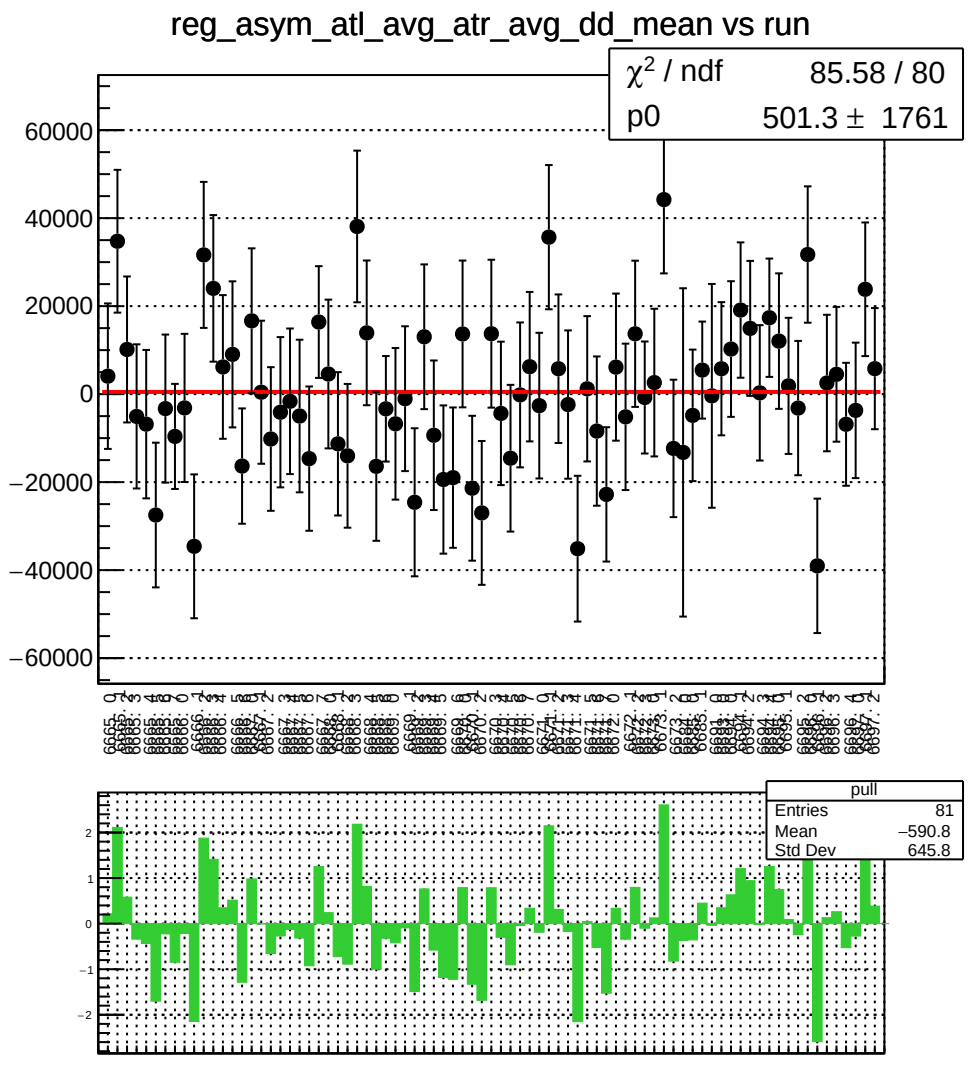

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

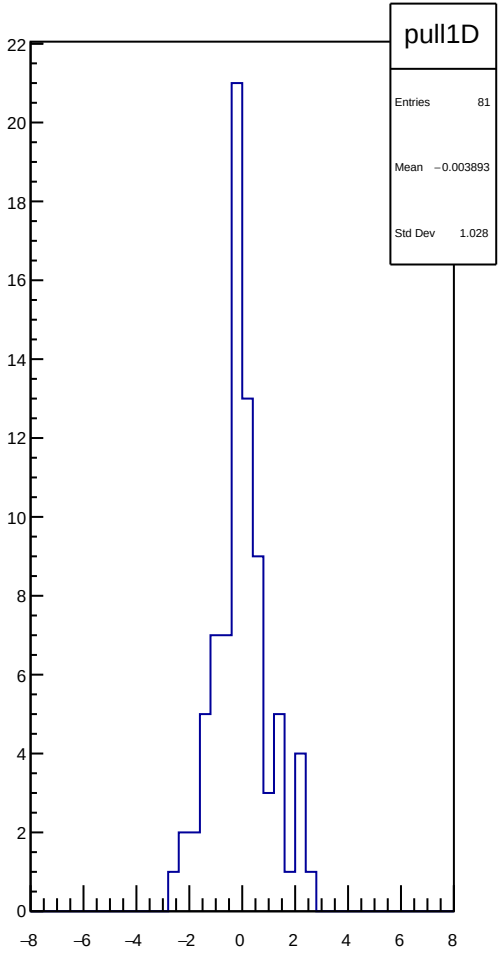

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

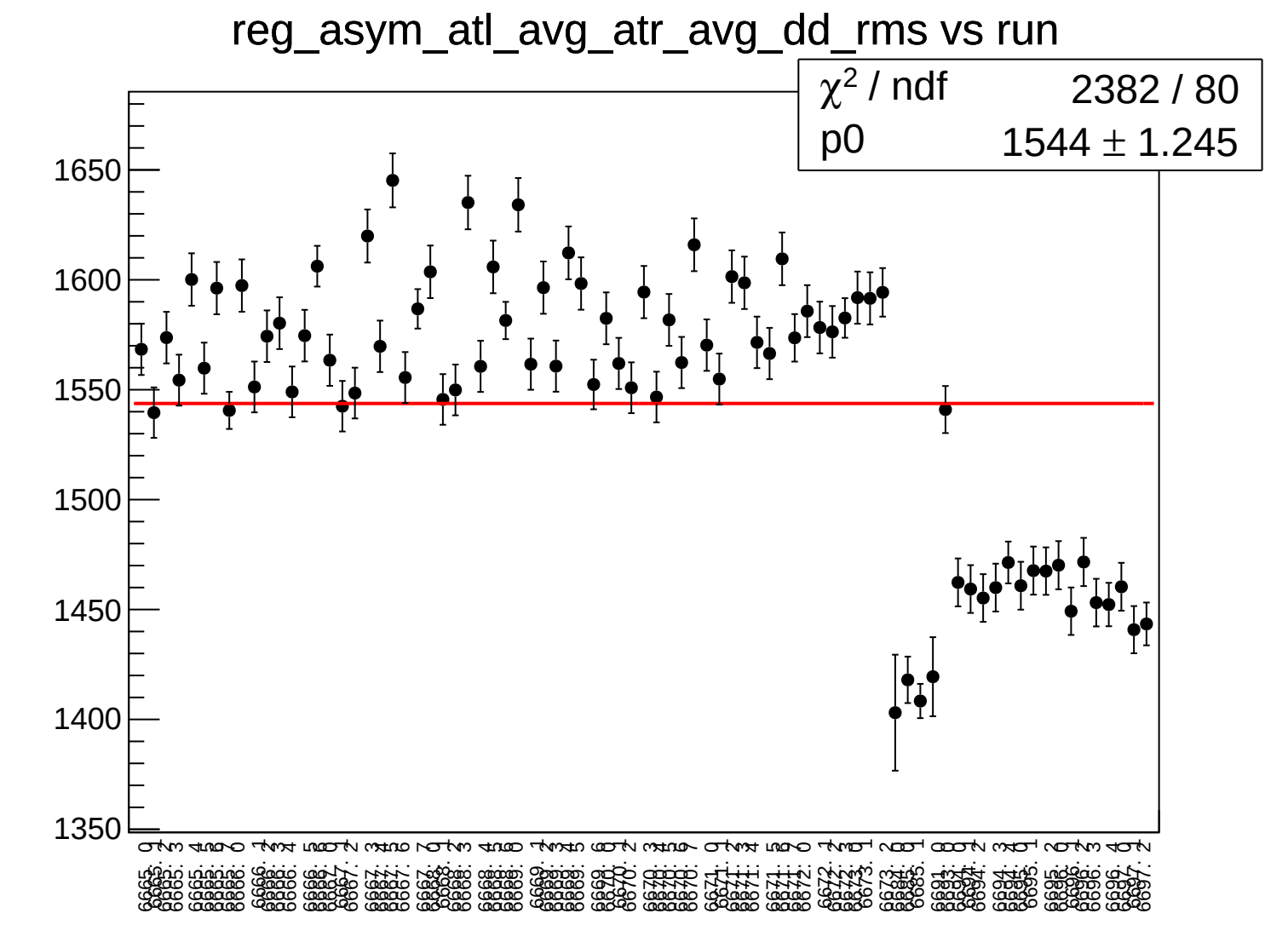

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 59.89 / 80
p0 −1.125e+04 ± 6529
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 81
Mean 176.3
Std Dev 88.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

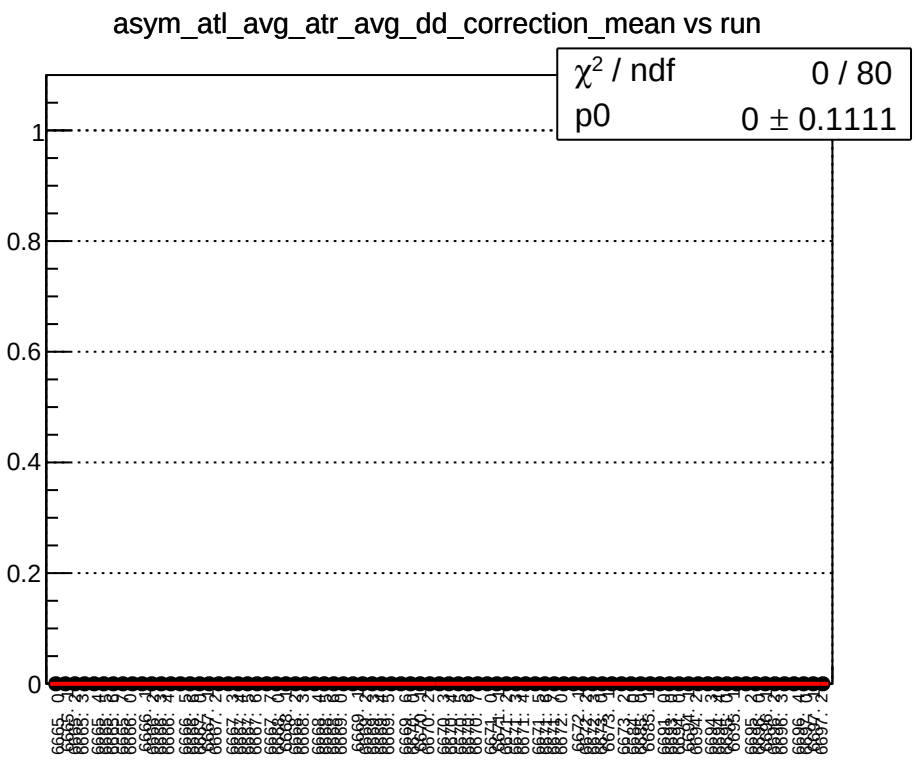

pull1D
Entries 81
Mean 0.008691
Std Dev 0.8598
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

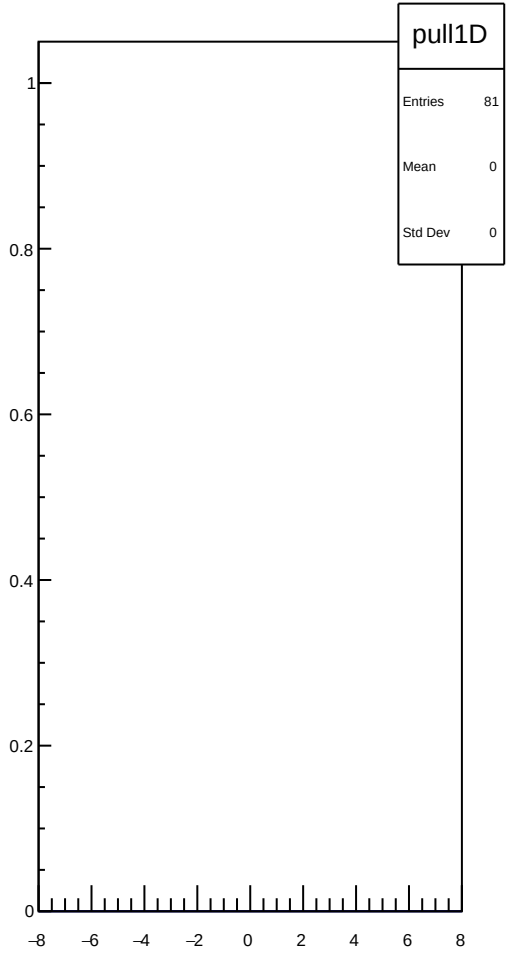

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 9831 / 80
p0 5711 ± 4.617
7000
6500
6000
5500
5000

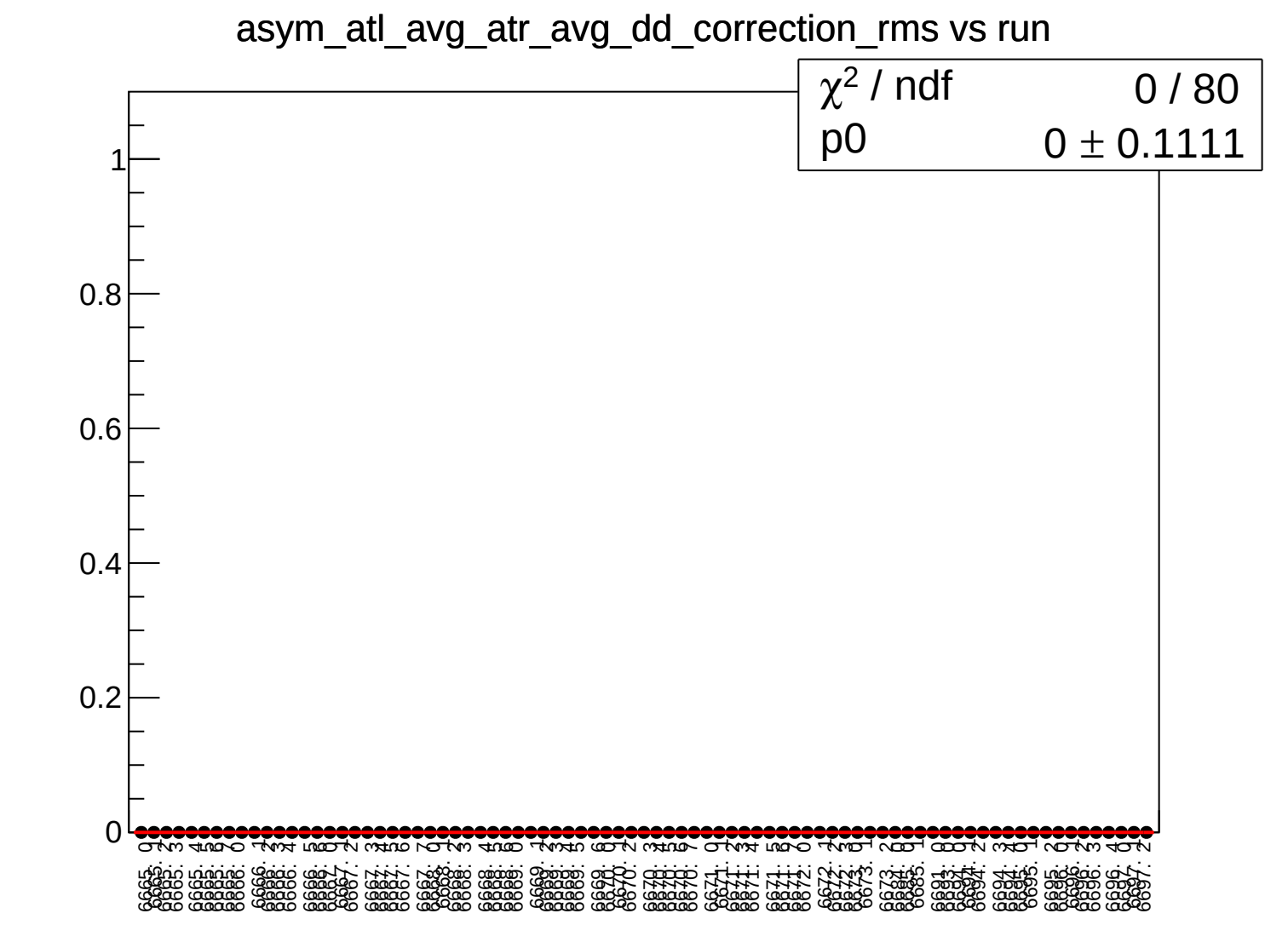

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.58 / 80
p0 501.3 ± 1761
pull
Entries 81
Mean −590.8
Std Dev 645.8

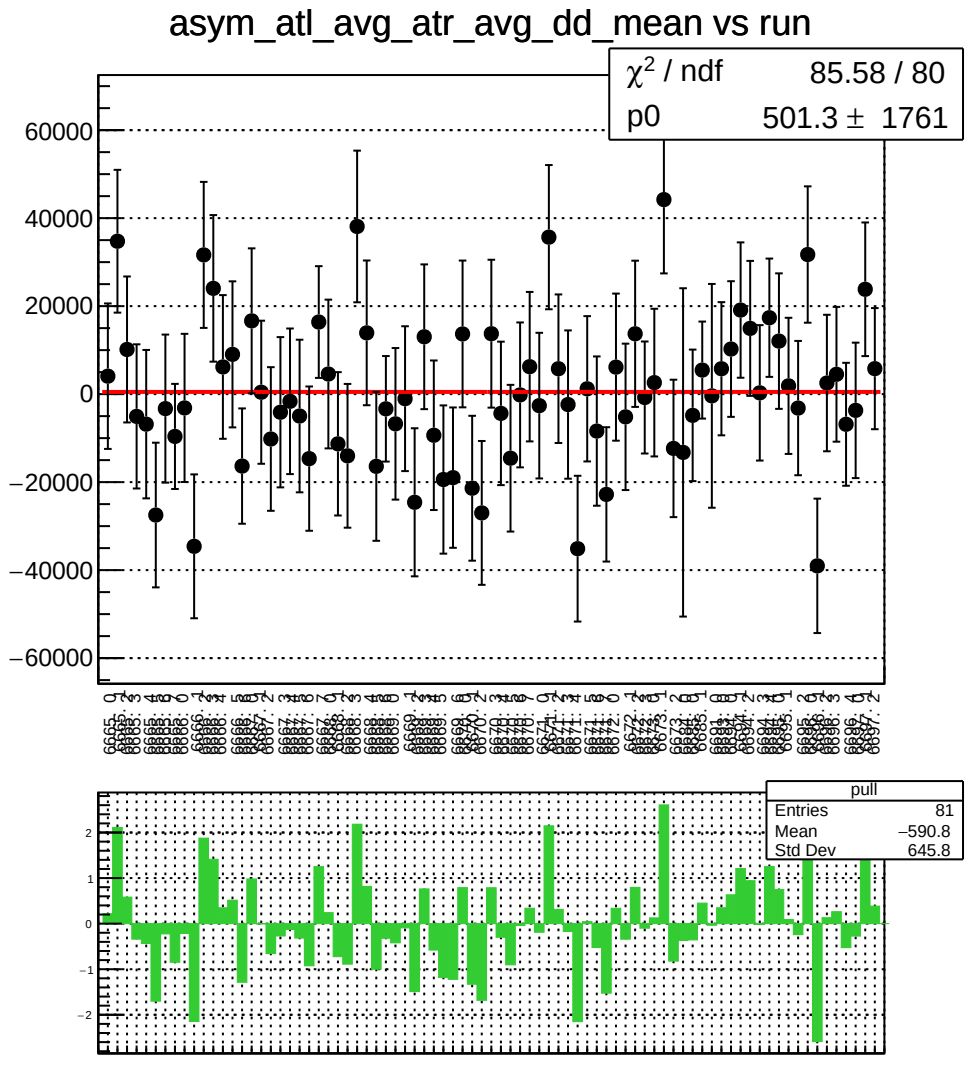

pull1D
Entries 81
Mean −0.003893
Std Dev 1.028

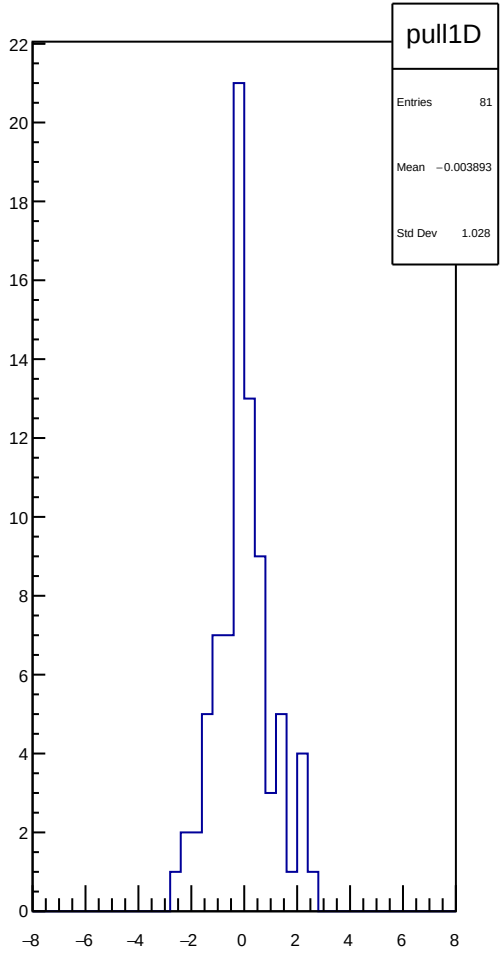

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2382 / 80
p0 1544 ± 1.245
1650
1600
1550
1500
1450
1400
1350

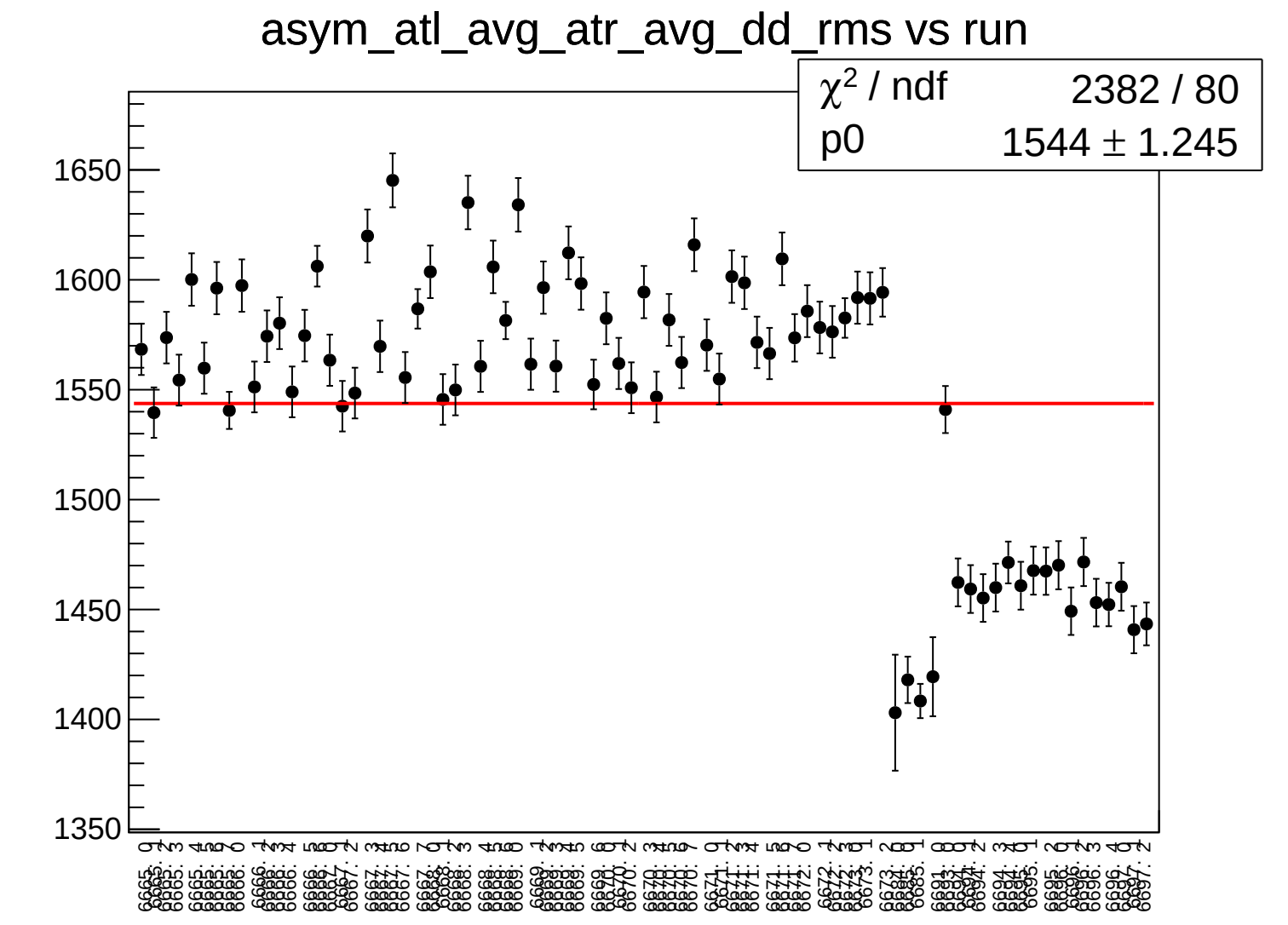

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

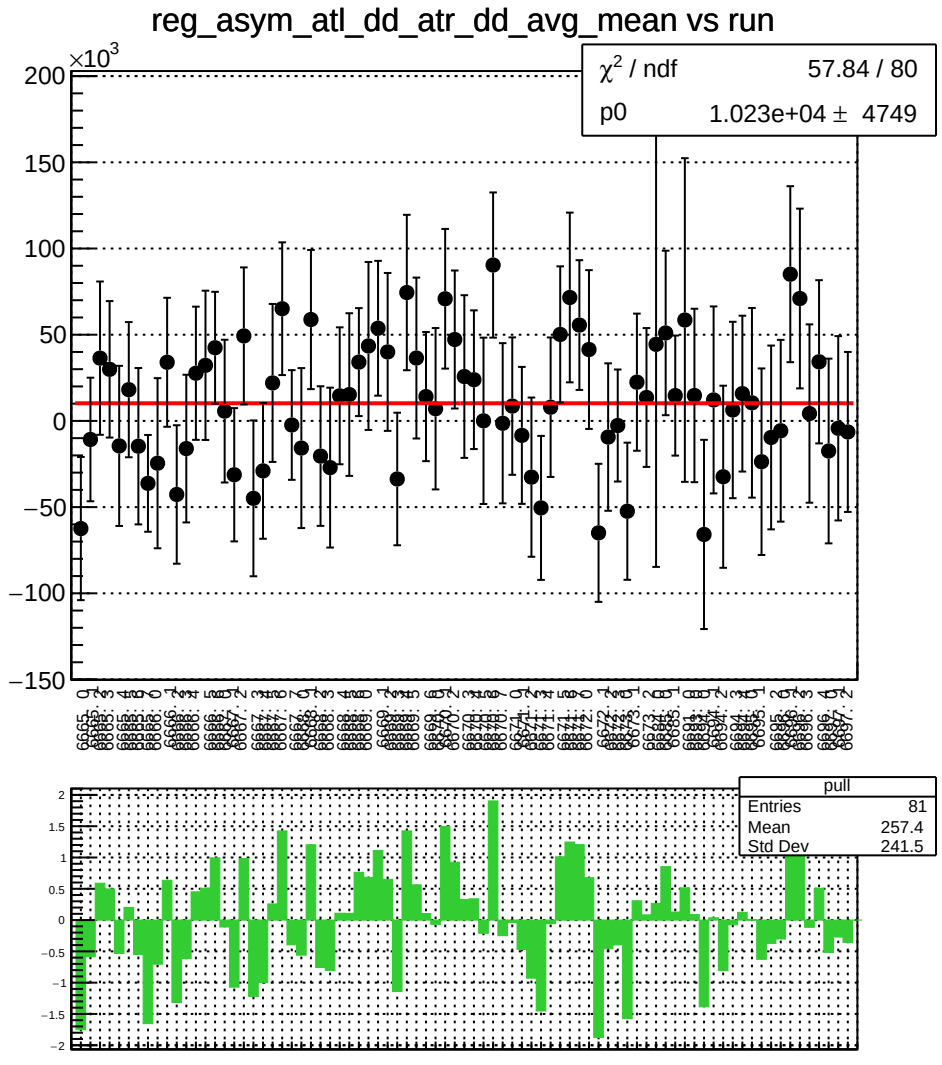

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

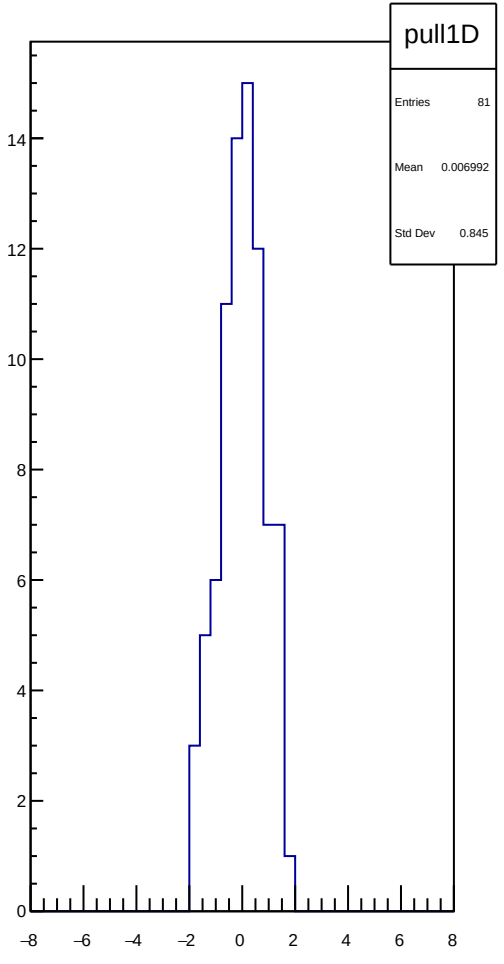

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

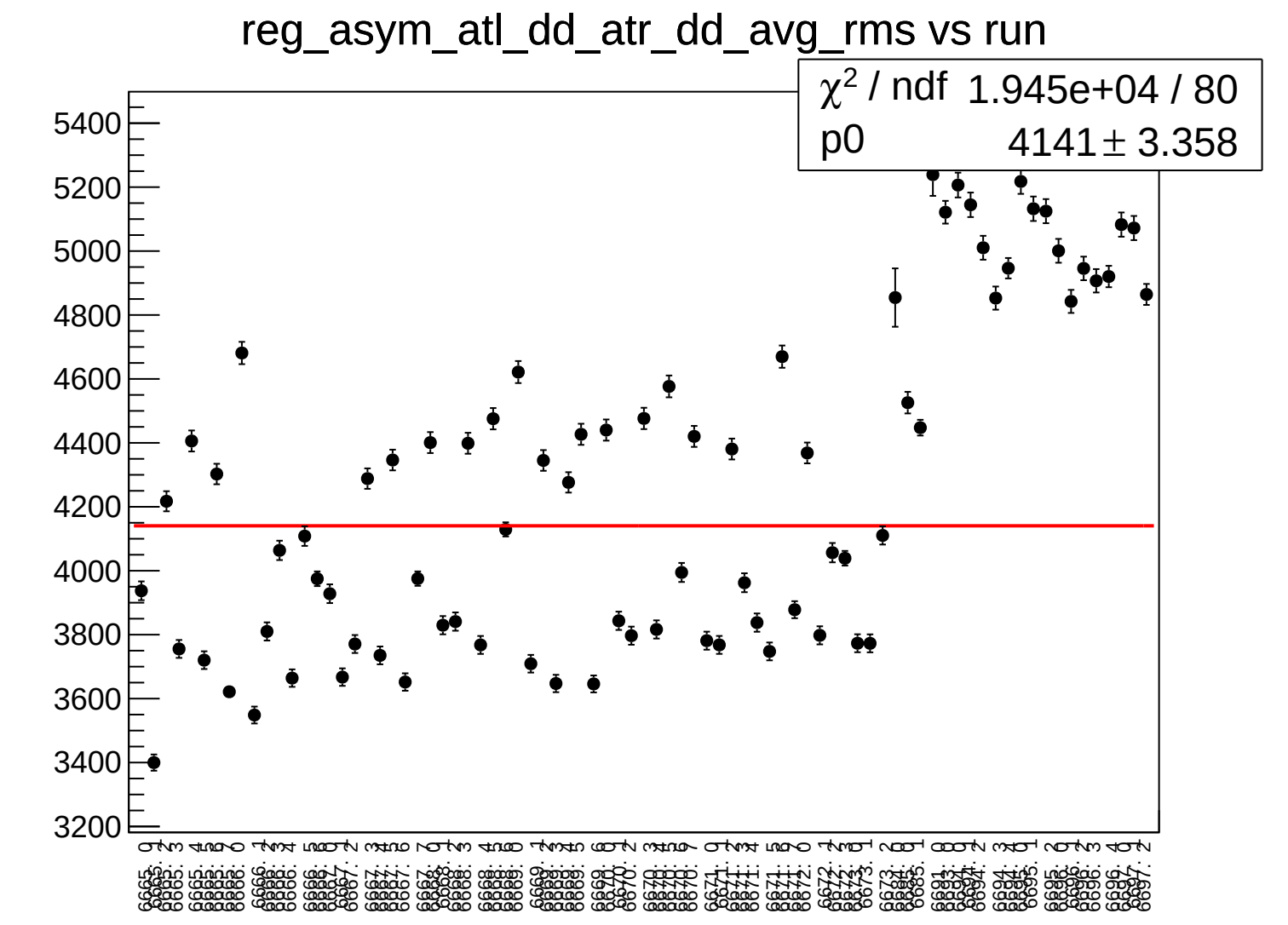

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 85.58 / 80
p0 501.3 ± 1761
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −590.8
Std Dev 645.8
2
1
0
−1
−2

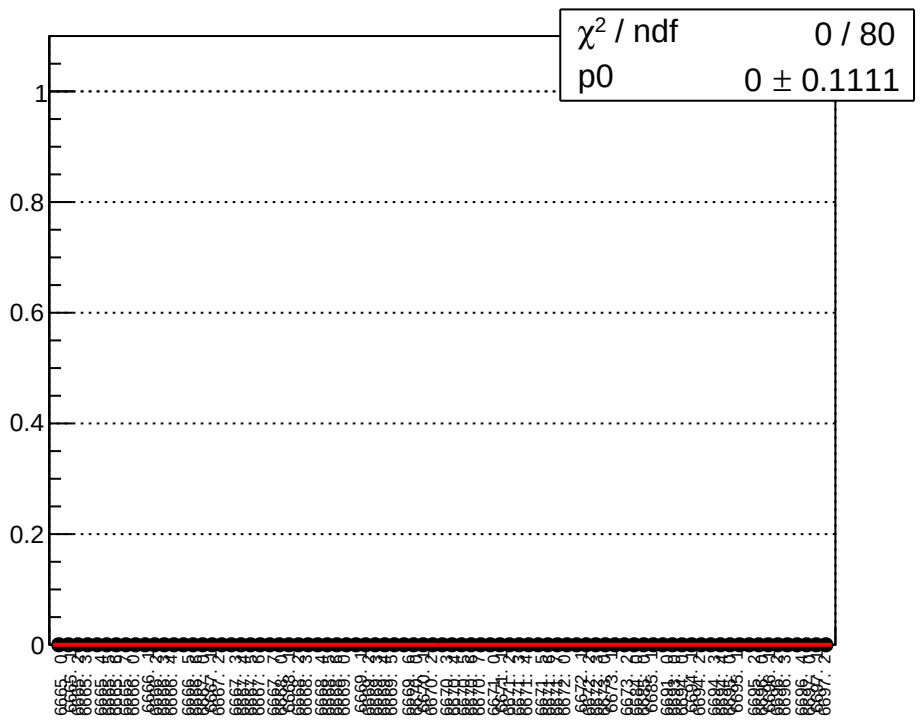

pull1D
Entries 81
Mean −0.003893
Std Dev 1.028
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

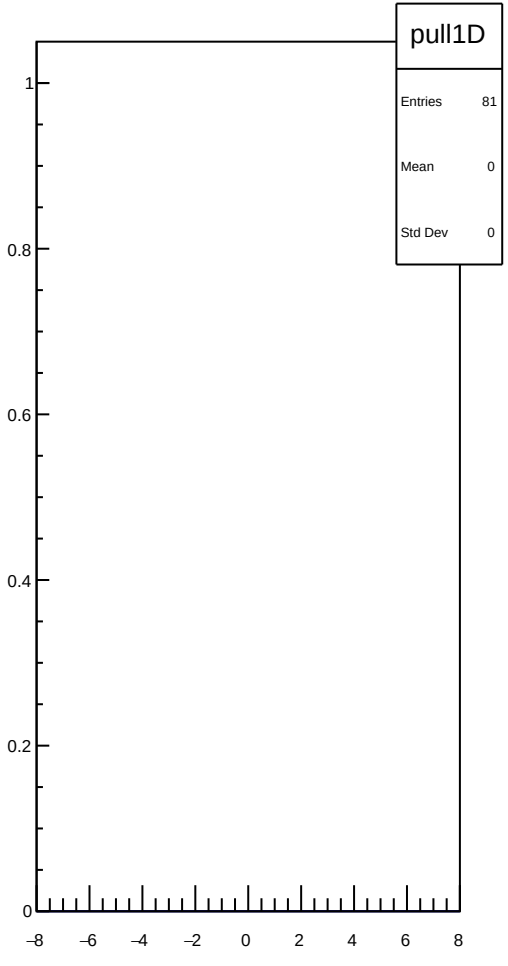

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 2382 / 80
p0 1544 ± 1.245
1650
1600
1550
1500
1450
1400
1350

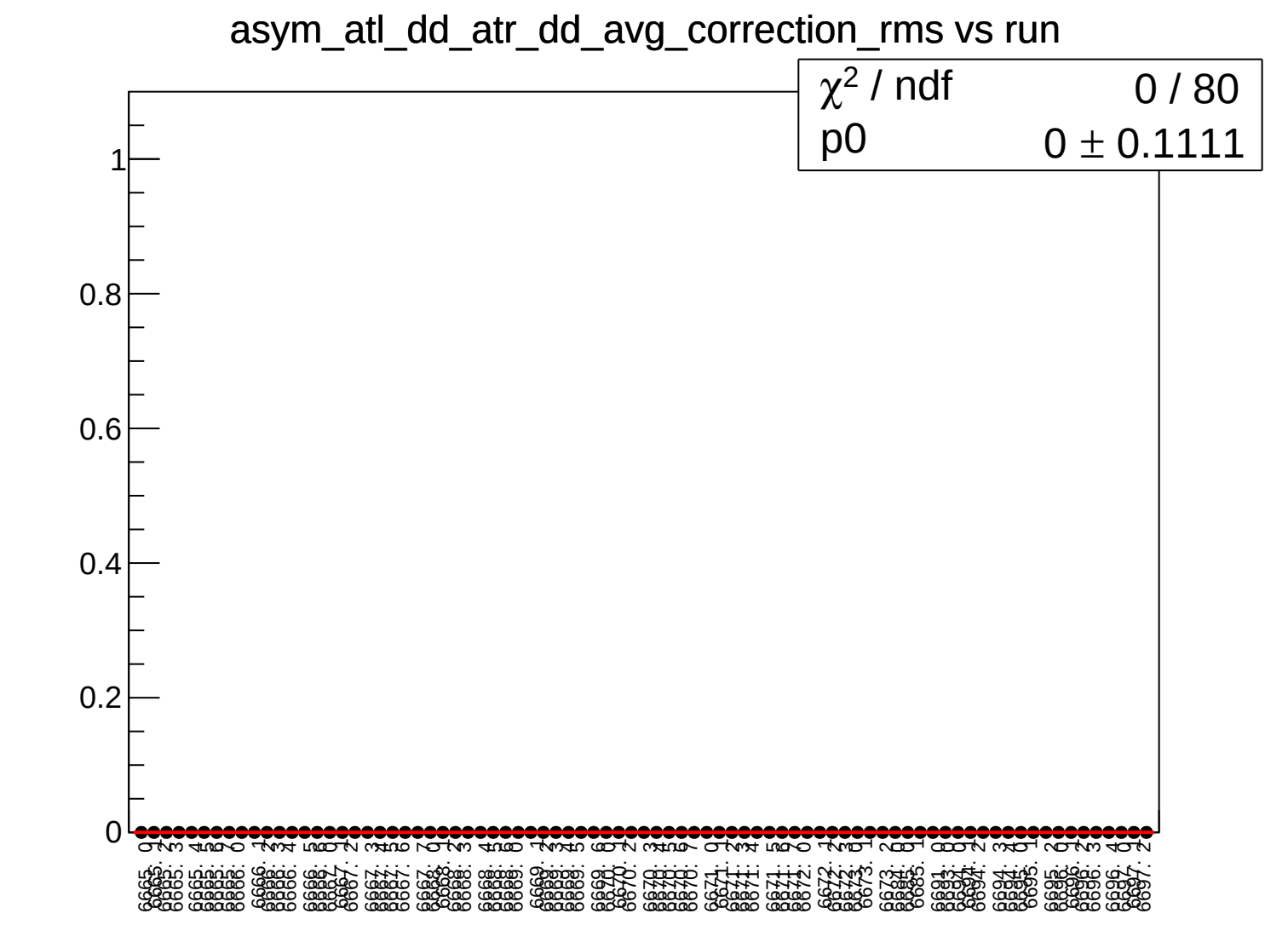

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 57.84 / 80
p0 1.023e+04 ± 4749
pull
Entries 81
Mean 257.4
Std Dev 241.5

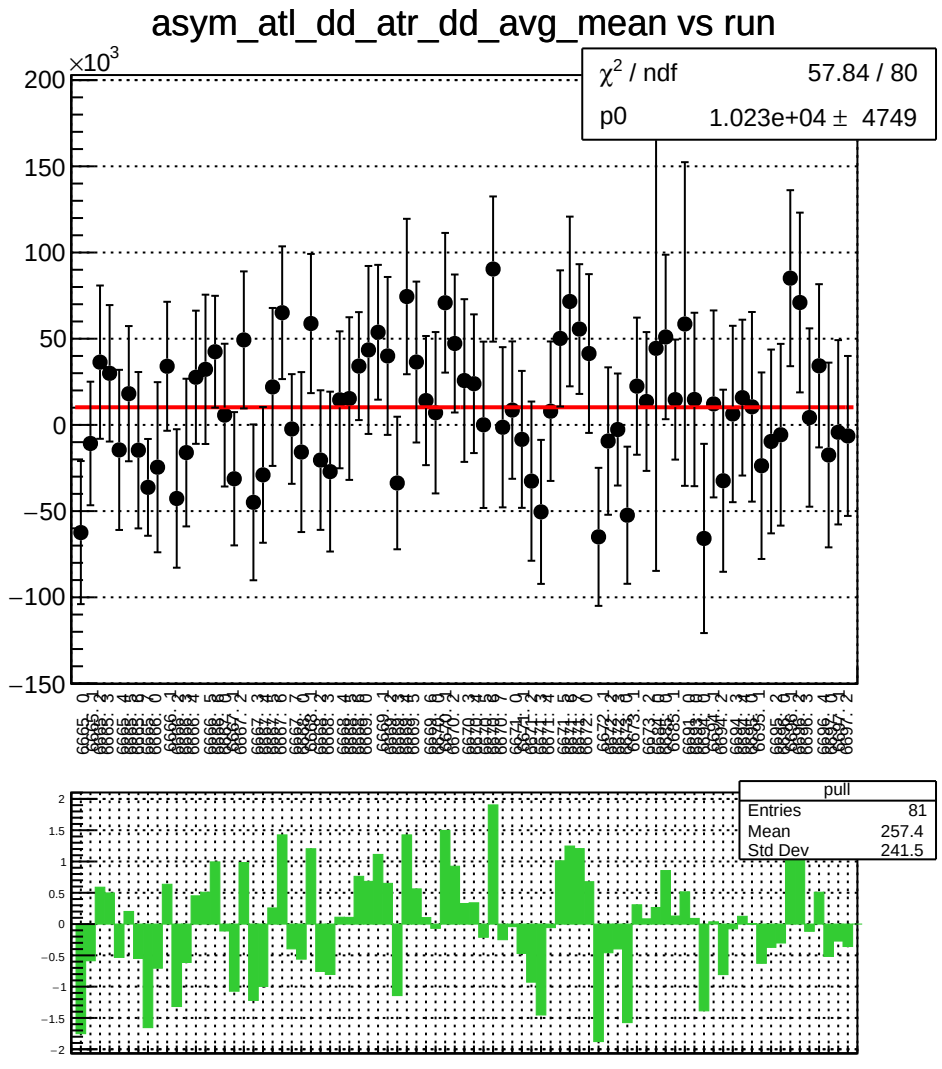

pull1D
Entries 81
Mean 0.006992
Std Dev 0.845

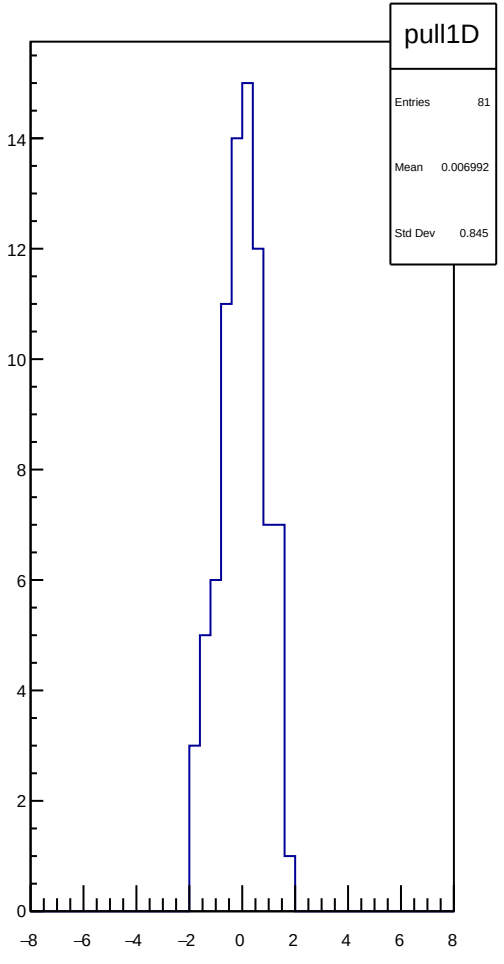

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.945e+04 / 80
p0 4141 ± 3.358
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

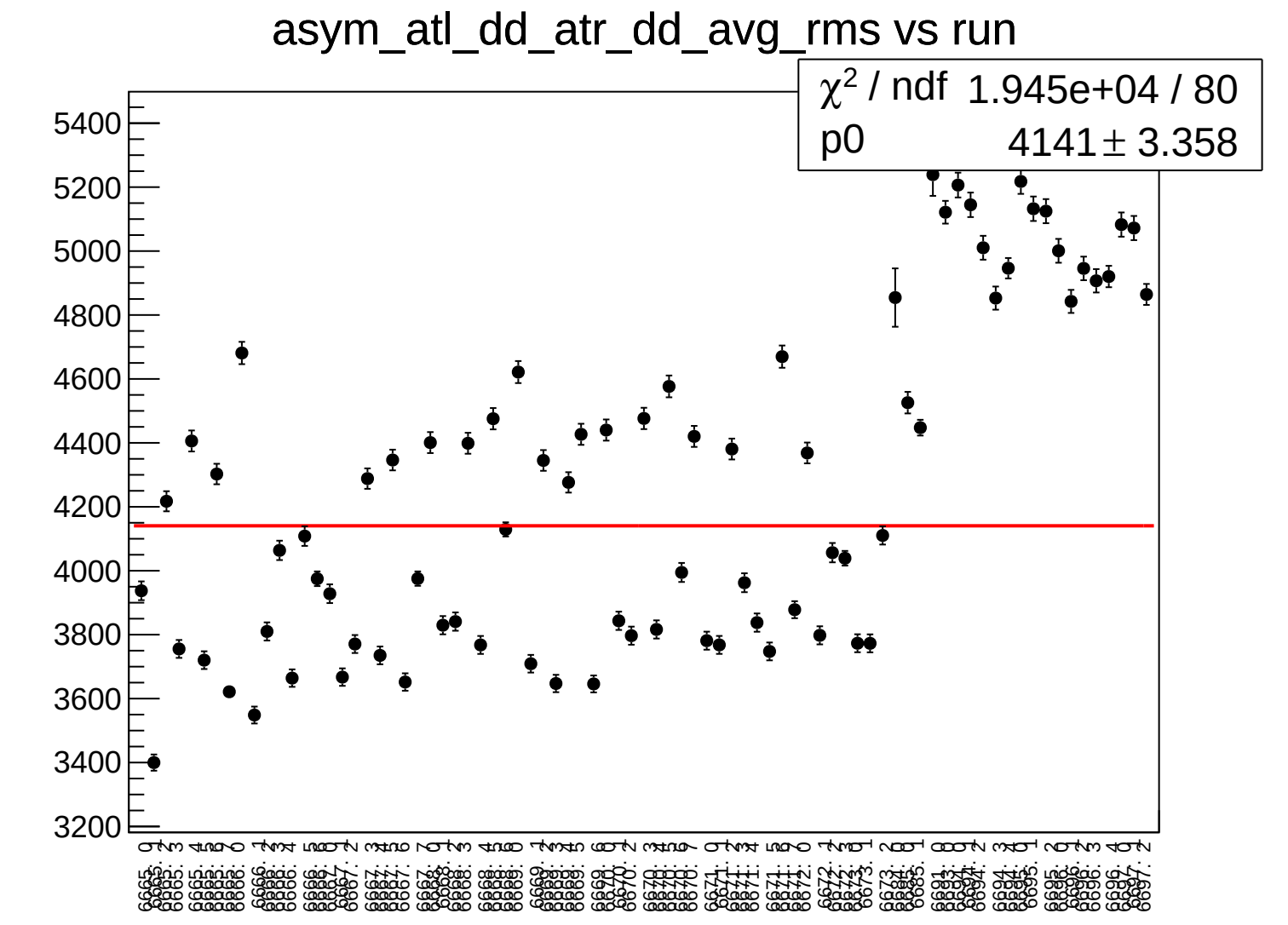

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

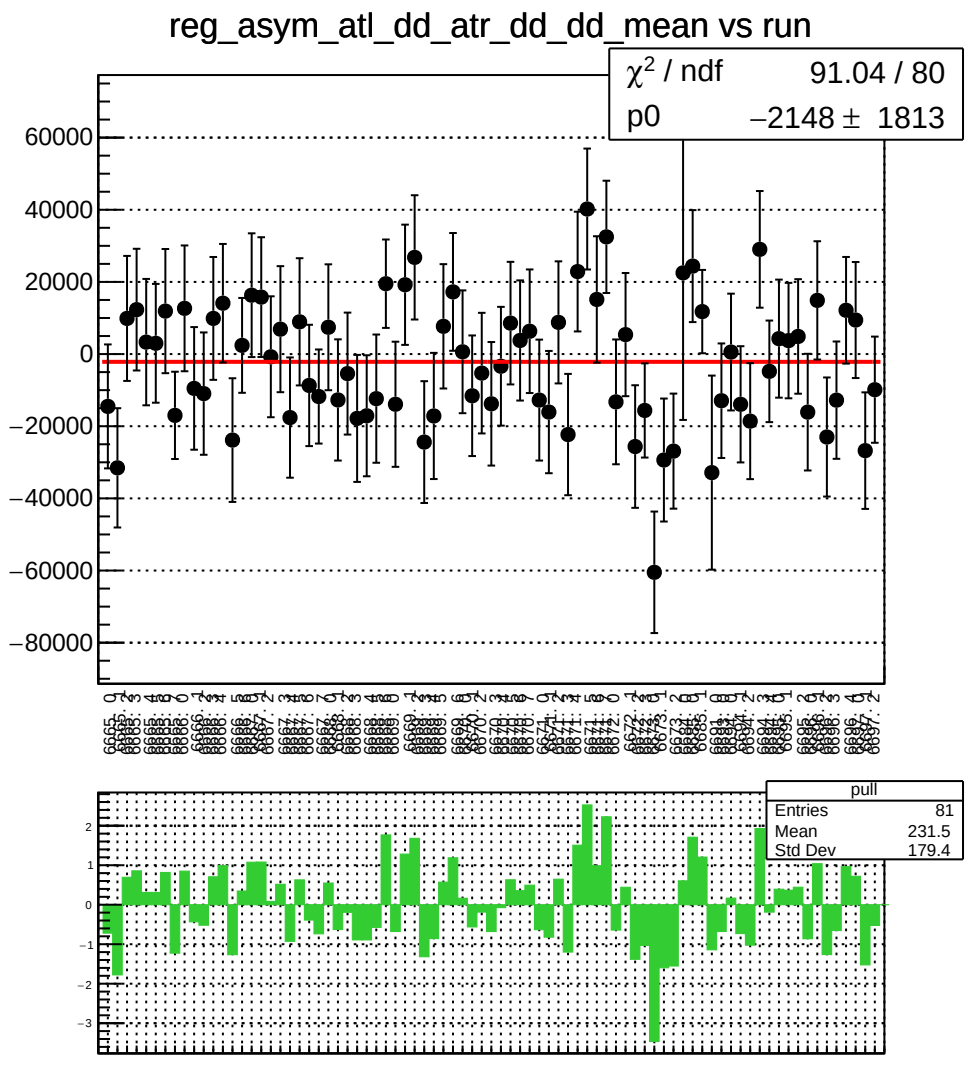

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

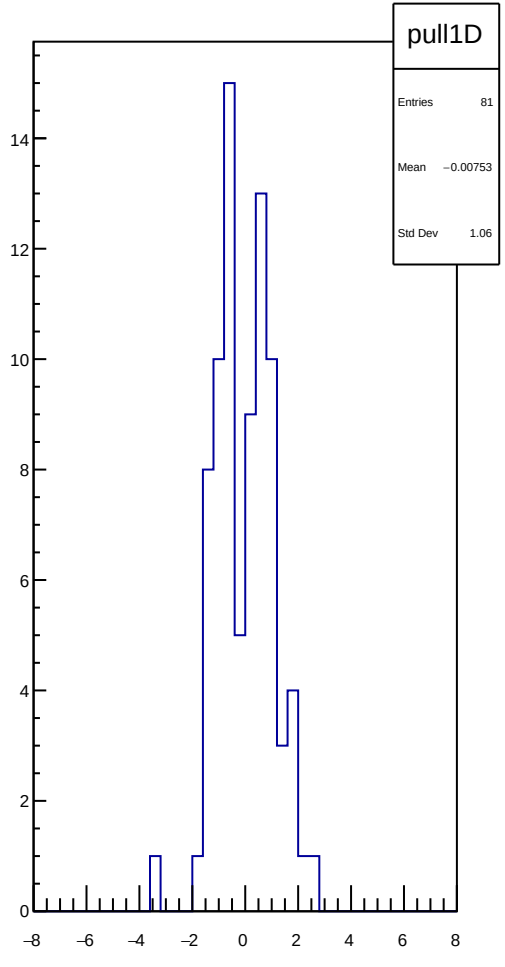

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

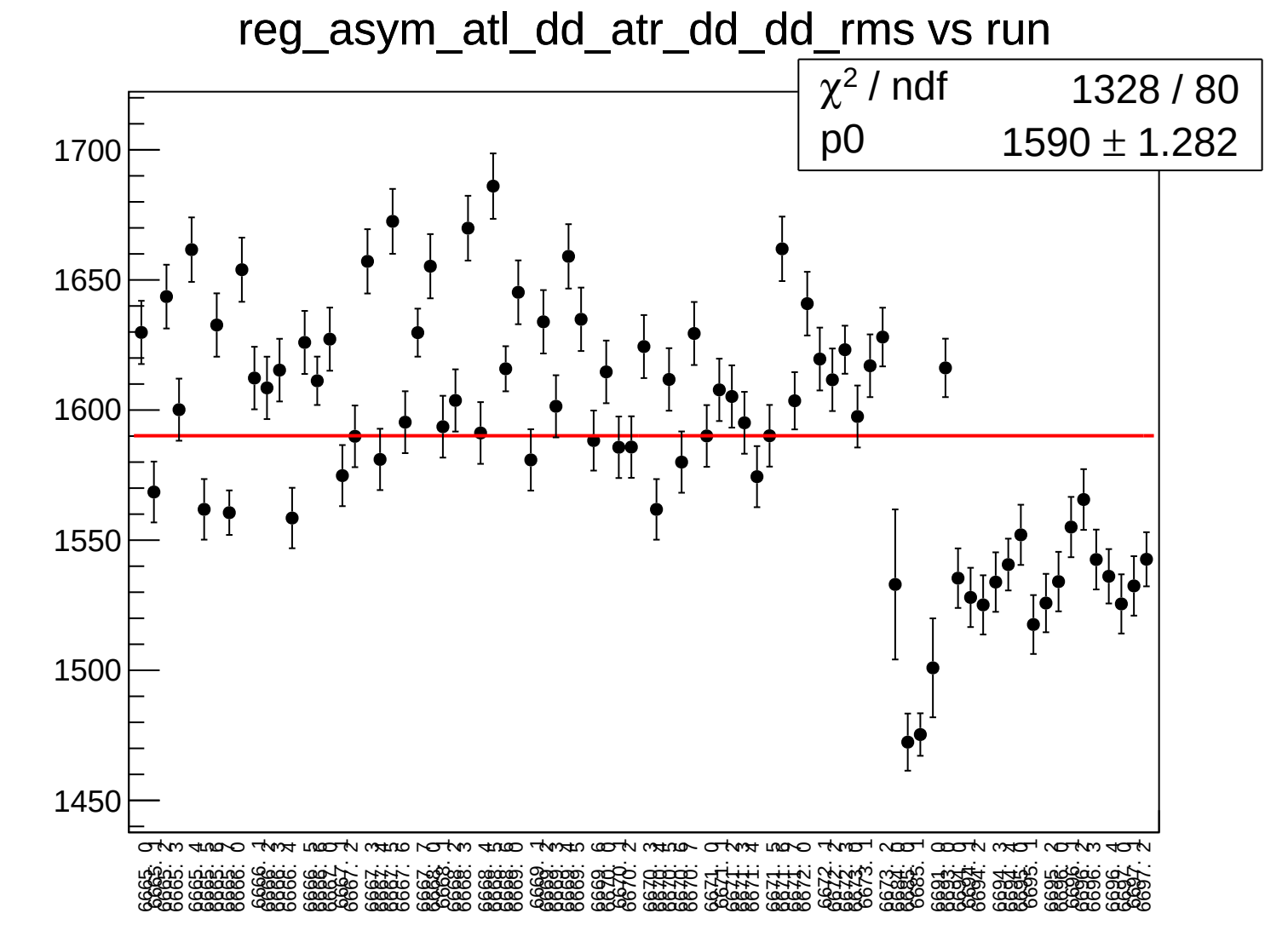

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 57.84 / 80
p0 1.023e+04 ± 4749
pull
Entries 81
Mean 257.4
Std Dev 241.5

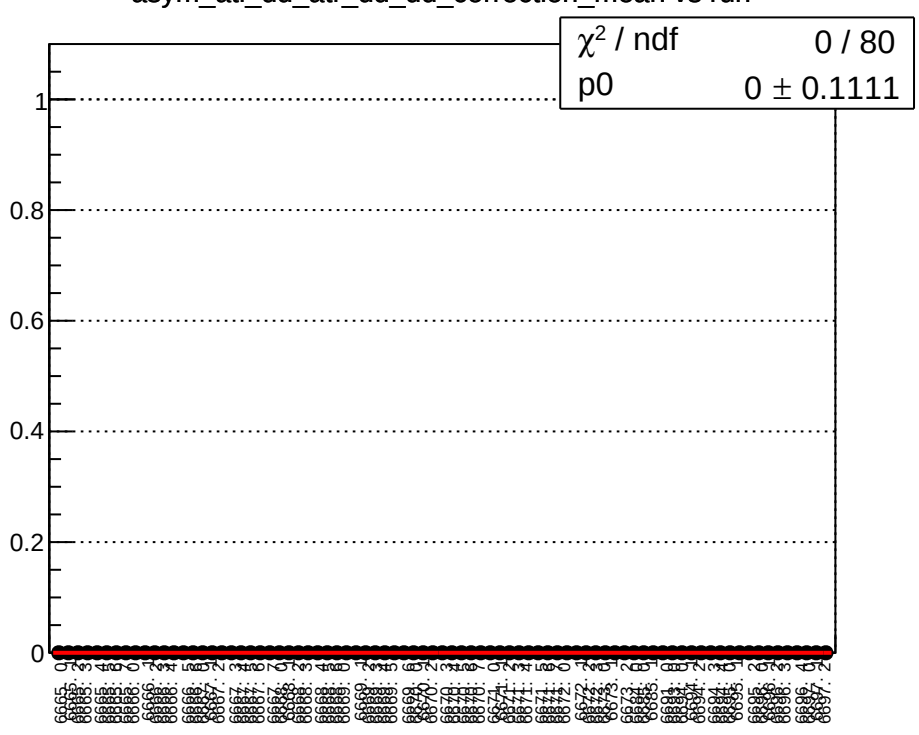

pull1D
Entries 81
Mean 0.006992
Std Dev 0.845

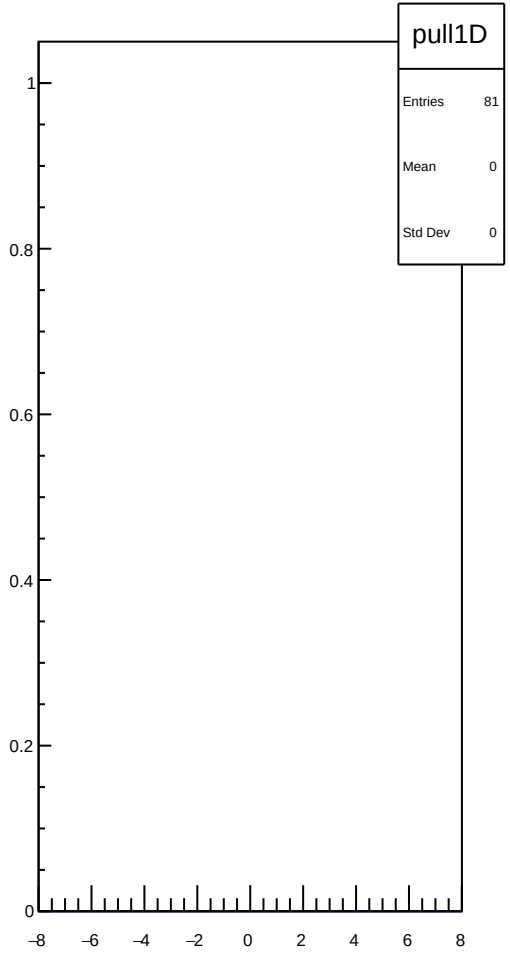

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.945e+04 / 80
p0 4141 ± 3.358
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400
3200

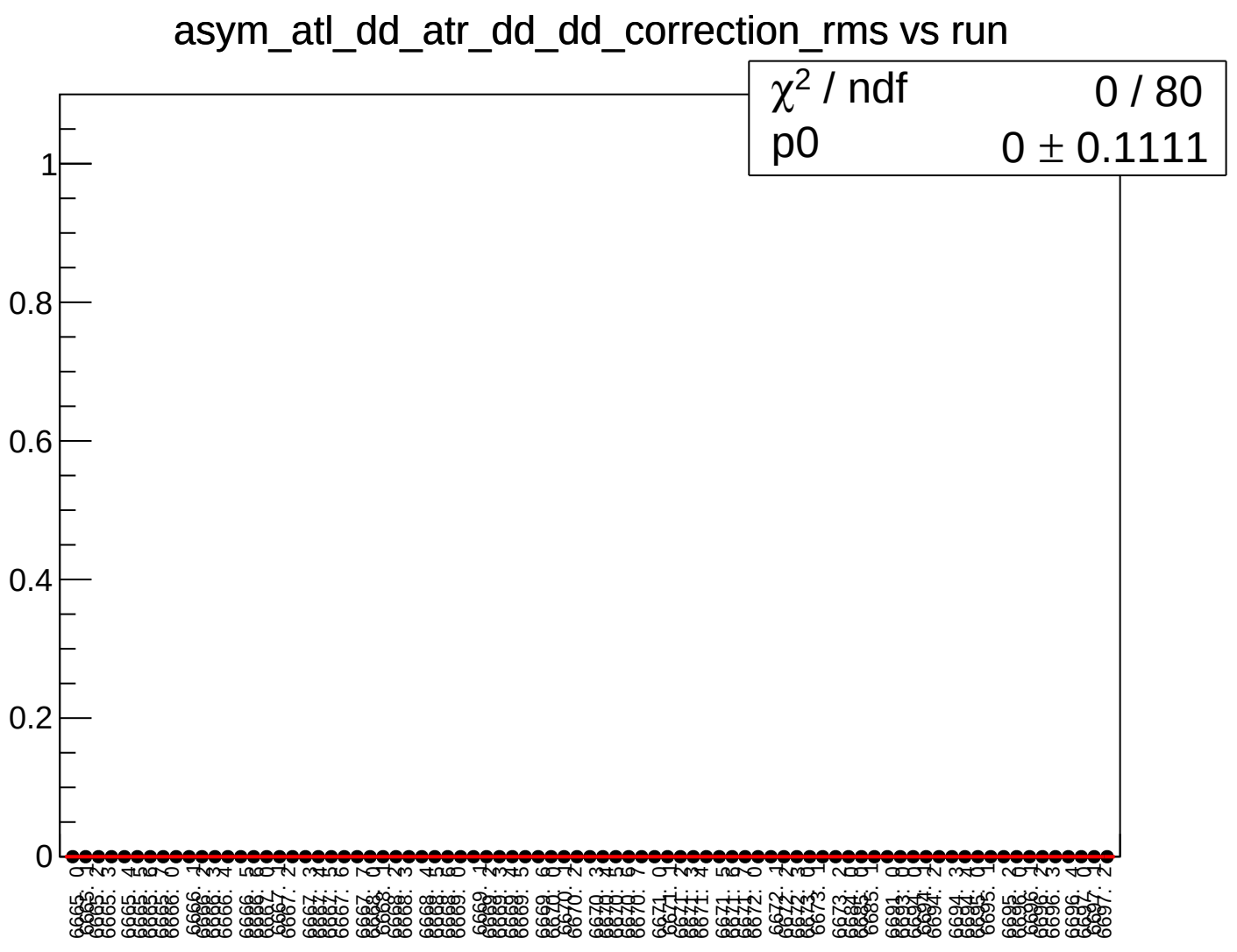

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.04 / 80
p0 −2148 ± 1813
pull
Entries 81
Mean 231.5
Std Dev 179.4

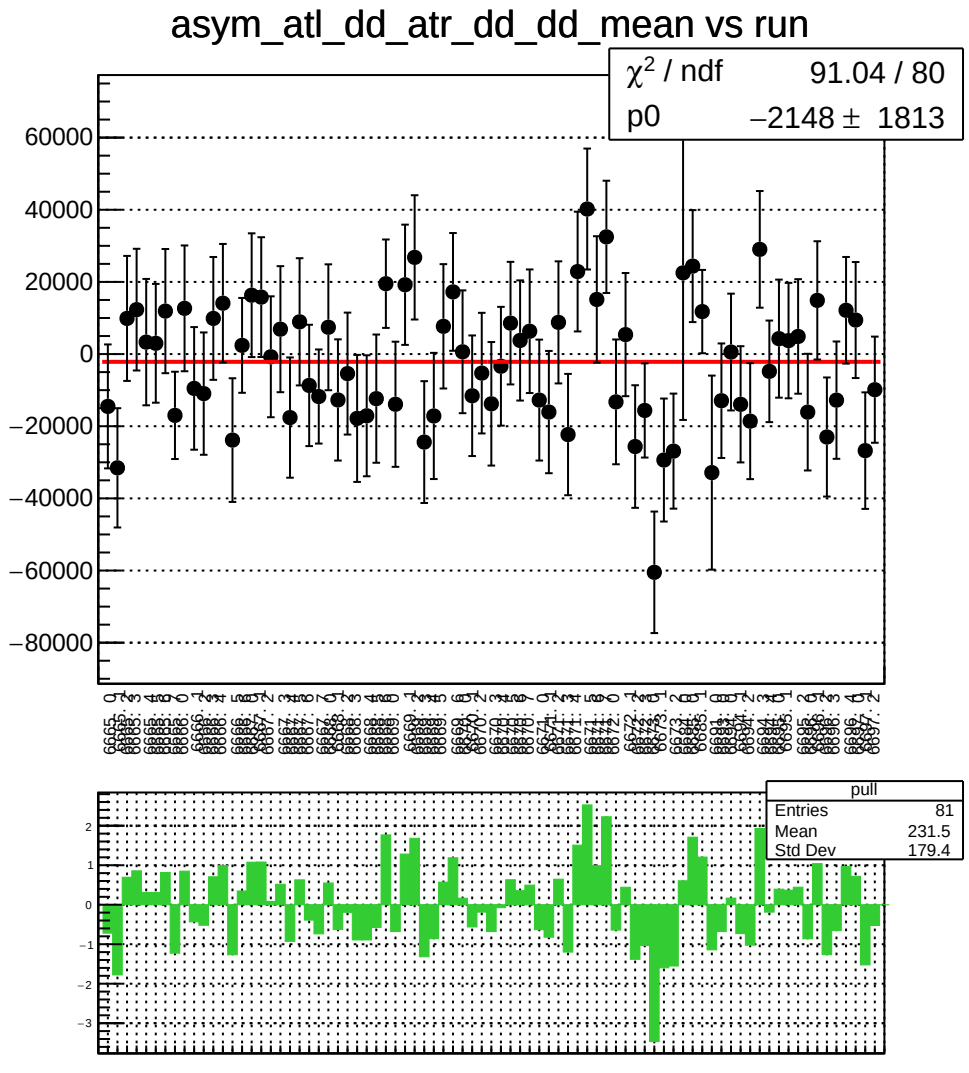

pull1D
Entries 81
Mean −0.00753
Std Dev 1.06

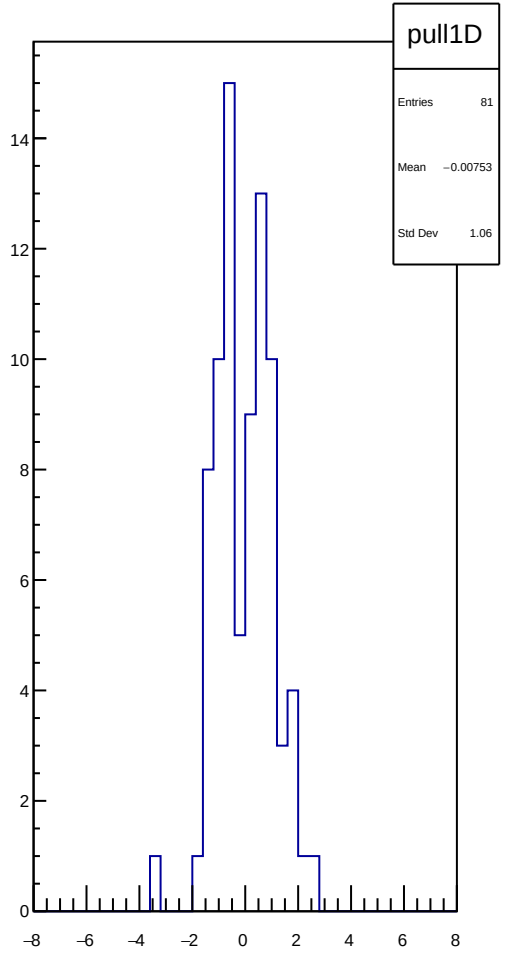

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1328 / 80
p0 1590 ± 1.282
1700
1650
1600
1550
1500
1450

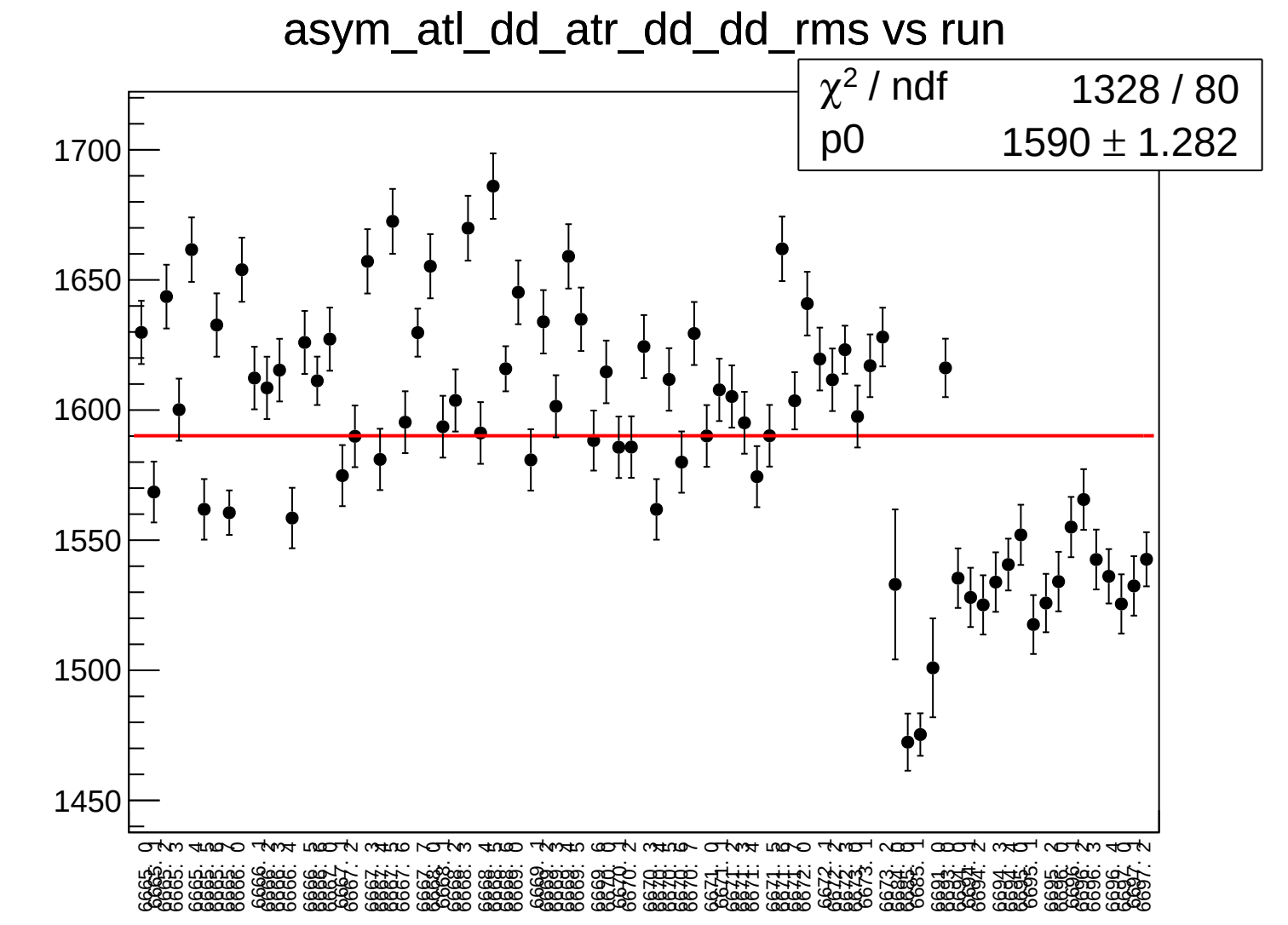

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

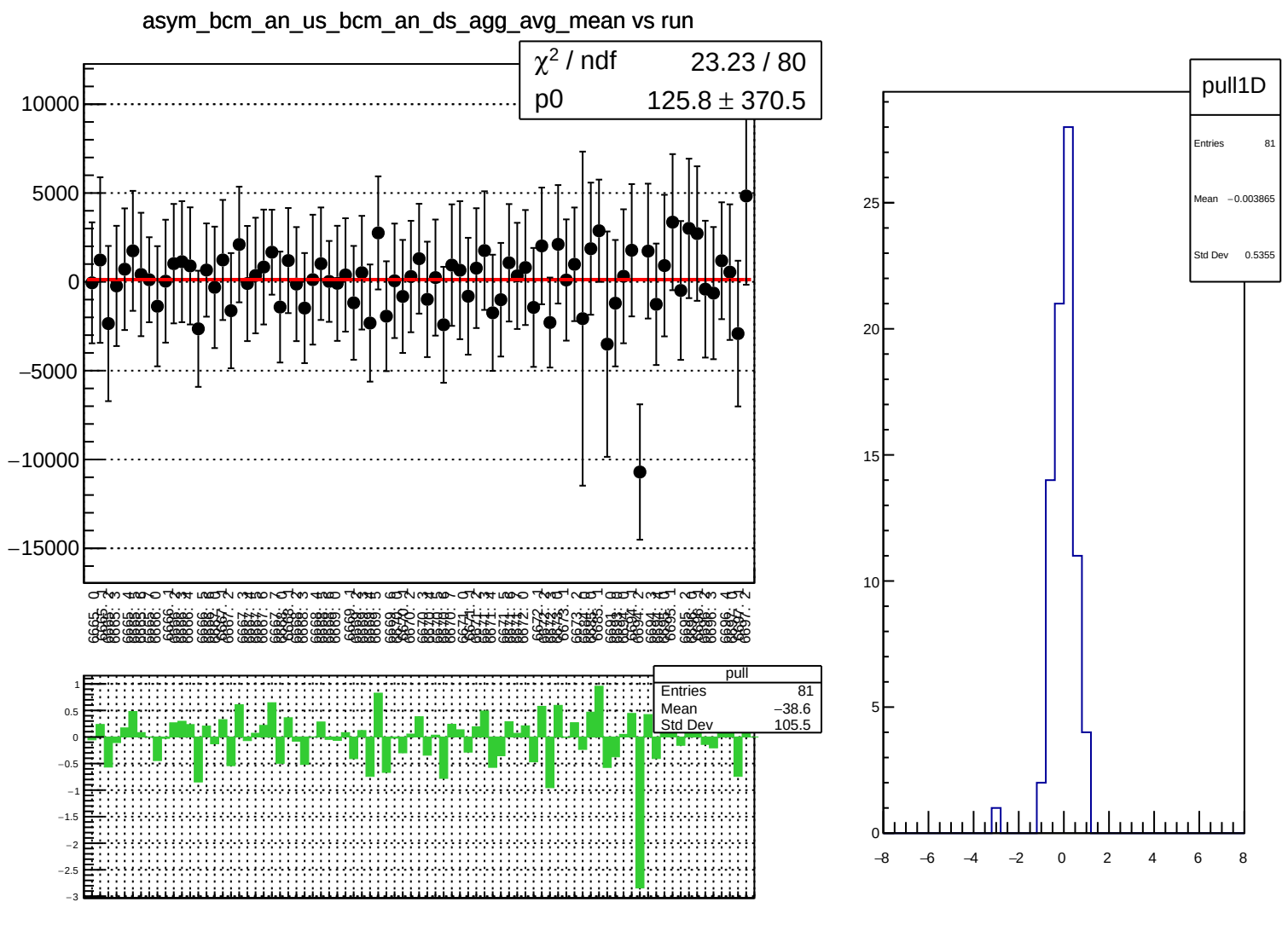

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

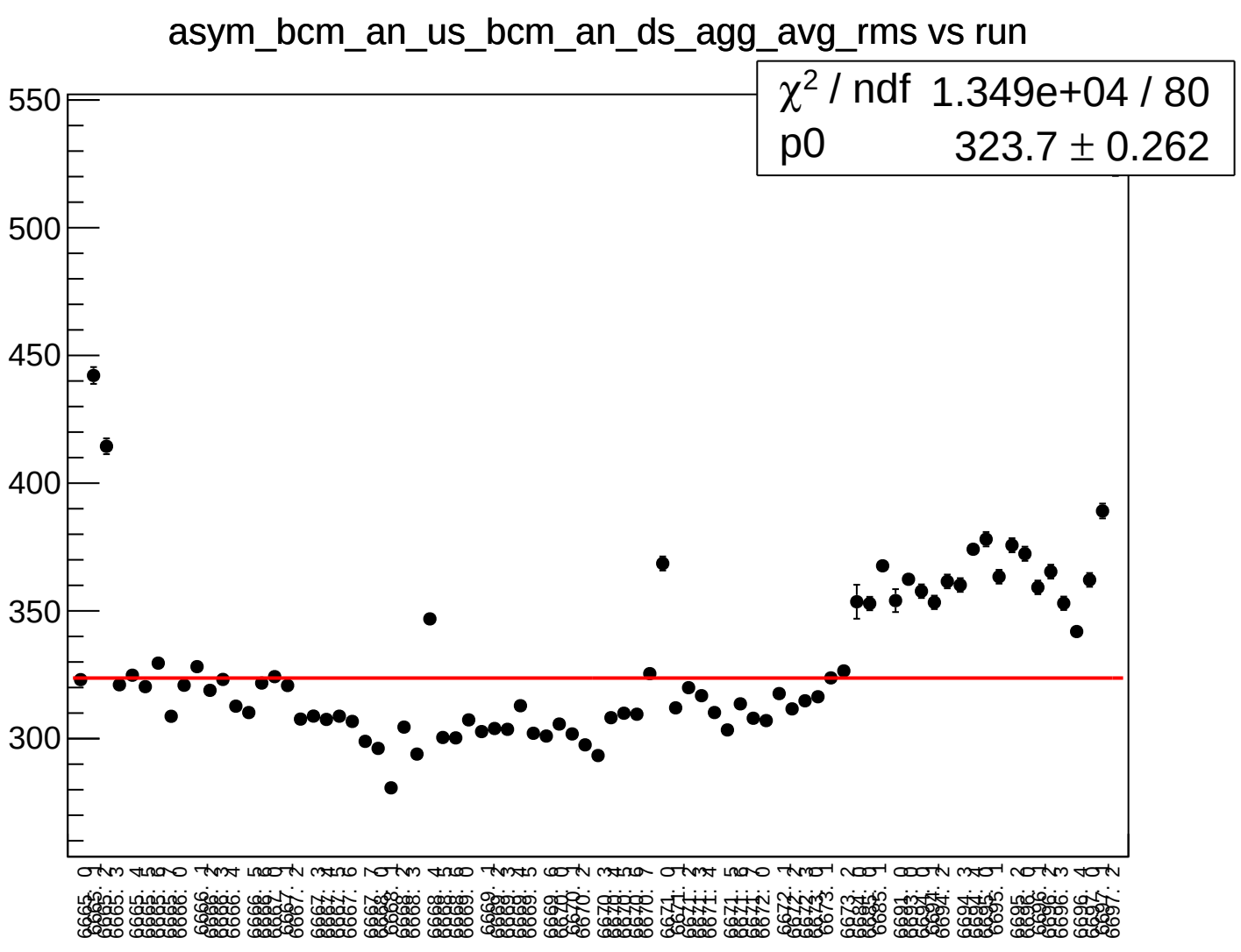

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

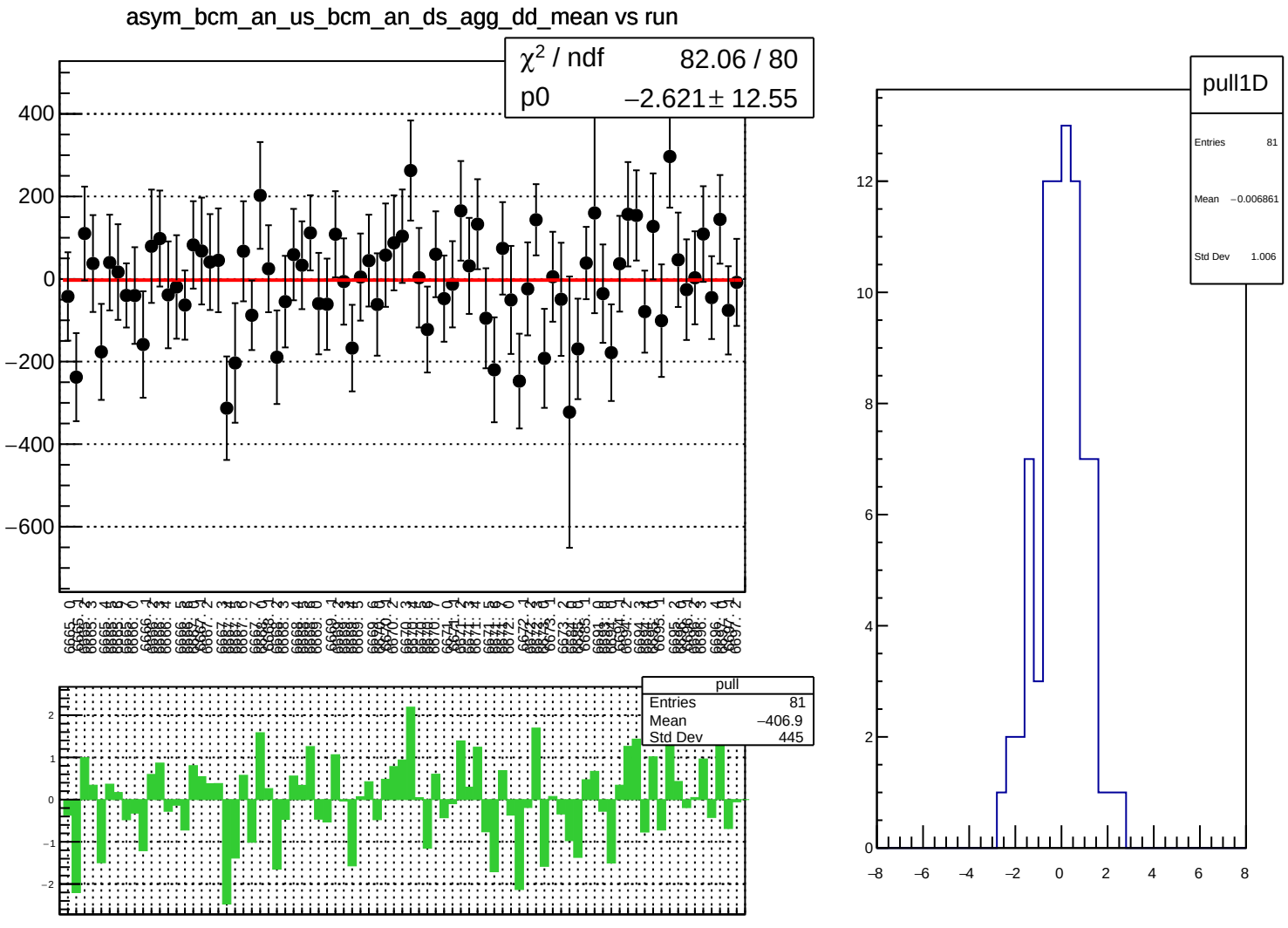

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 91.04 / 80
p0 −2148 ± 1813
pull
Entries 81
Mean 231.5
Std Dev 179.4

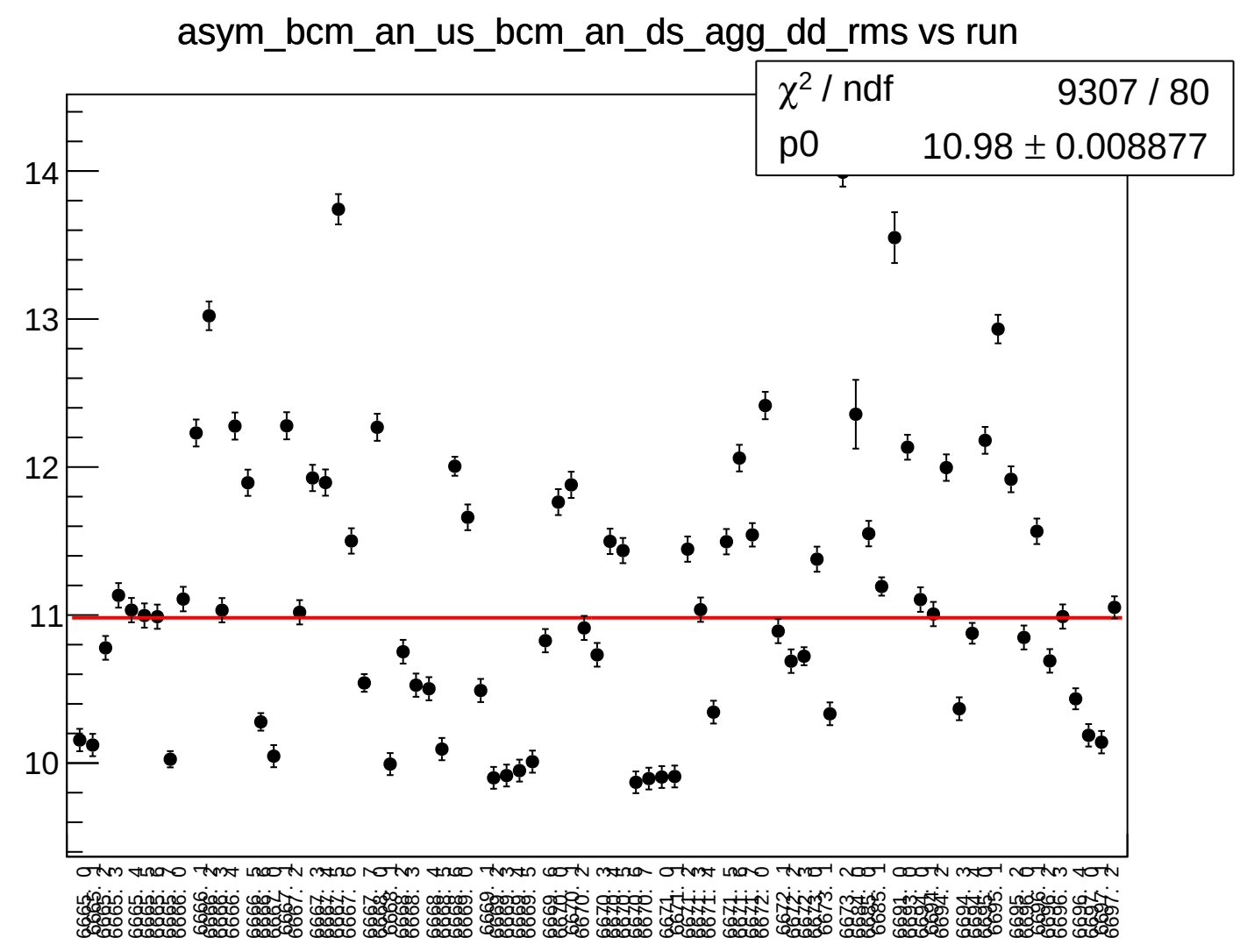

pull1D
Entries 81
Mean −0.00753
Std Dev 1.06

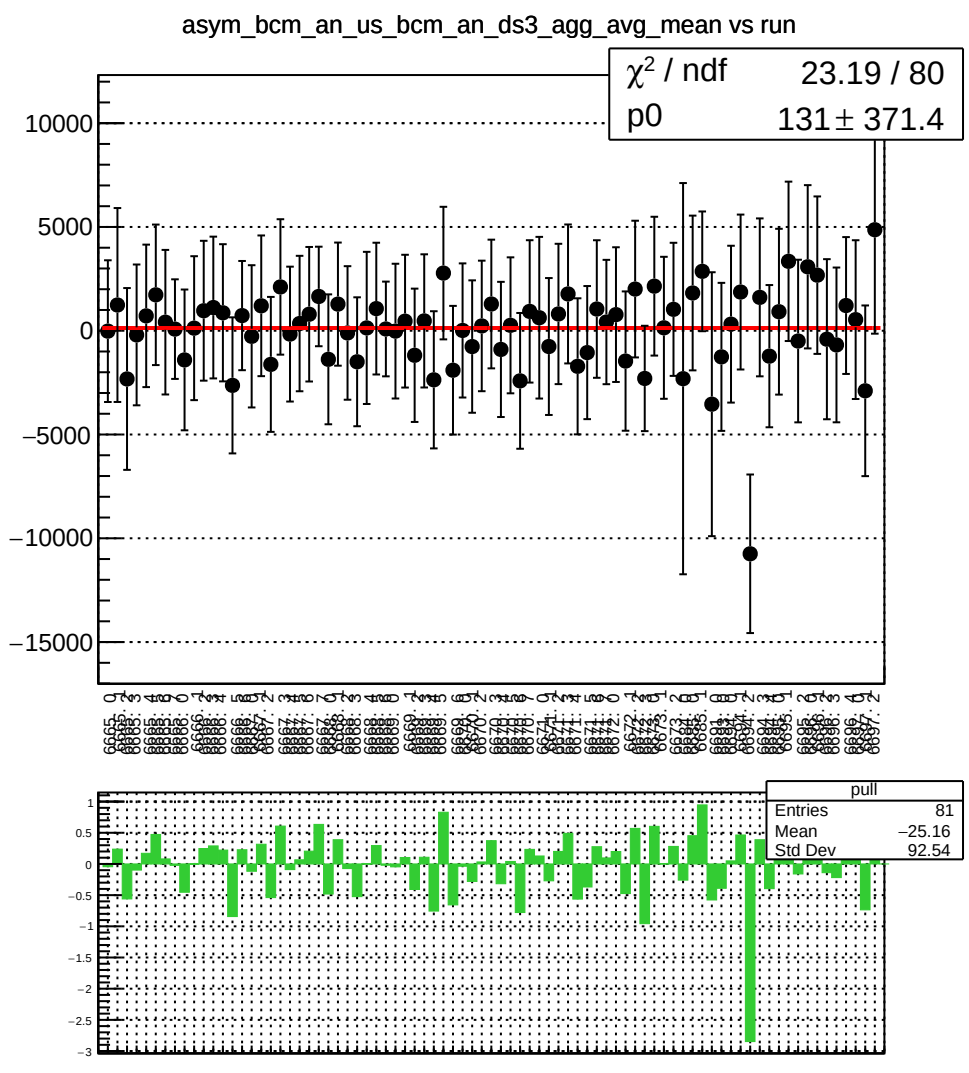

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1328 / 80
p0 1590 ± 1.282
1700
1650
1600
1550
1500
1450

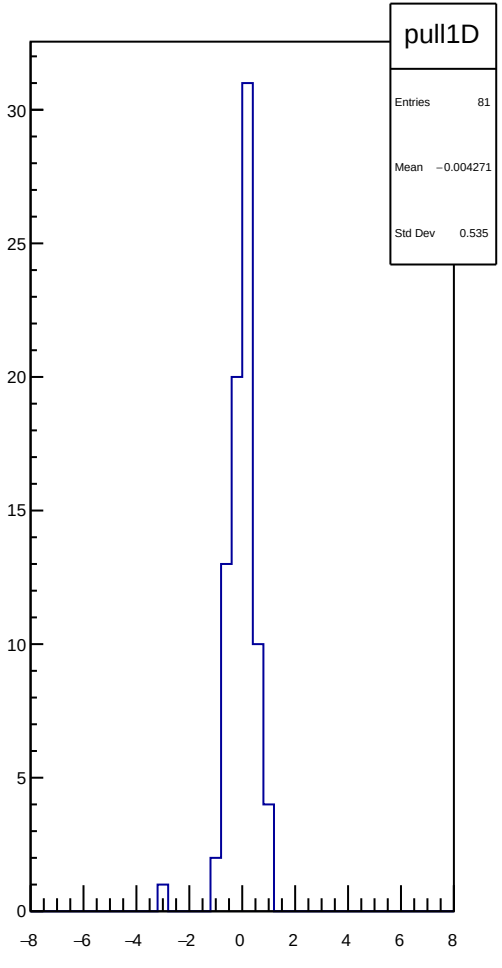

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.23 / 80
p0 125.8 ± 370.5
pull
Entries 81
Mean −38.6
Std Dev 105.5
pull1D
Entries 81
Mean −0.003865
Std Dev 0.5355

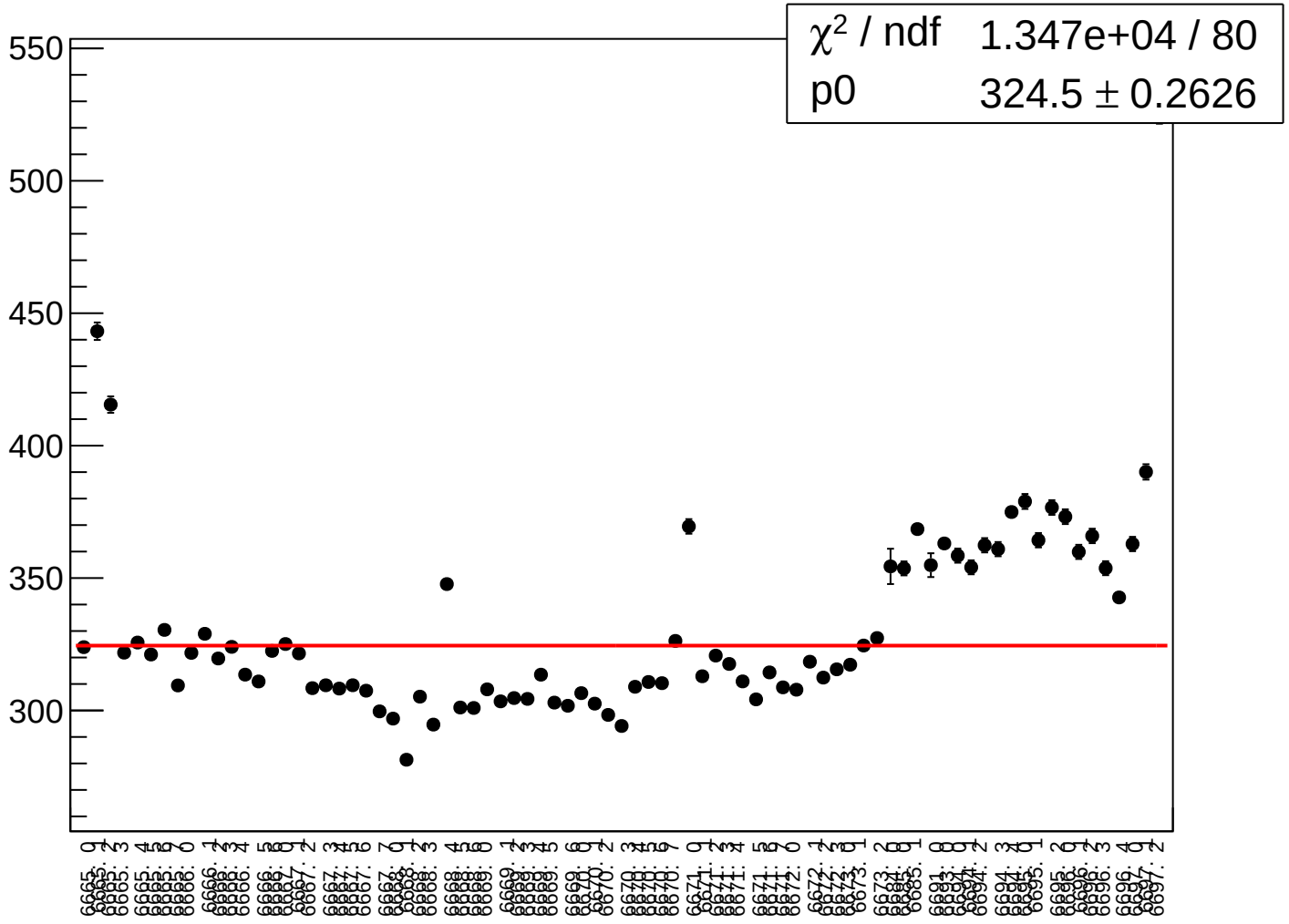

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.349e+04 / 80
p0 323.7 ± 0.262
550
500
450
400
350
300

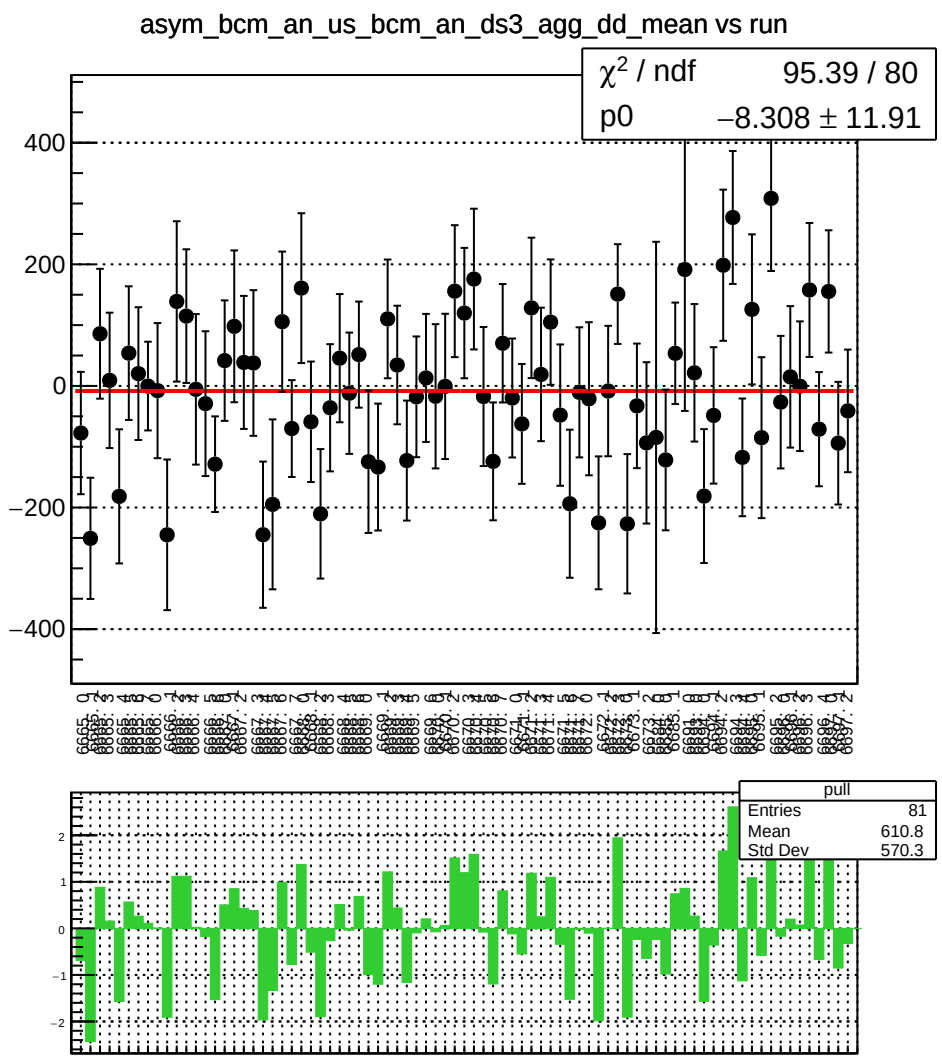

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 82.06 / 80
p0 −2.621± 12.55
400
200
0
−200
−400
−600
pull
Entries 81
Mean −406.9
Std Dev 445
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.006861
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

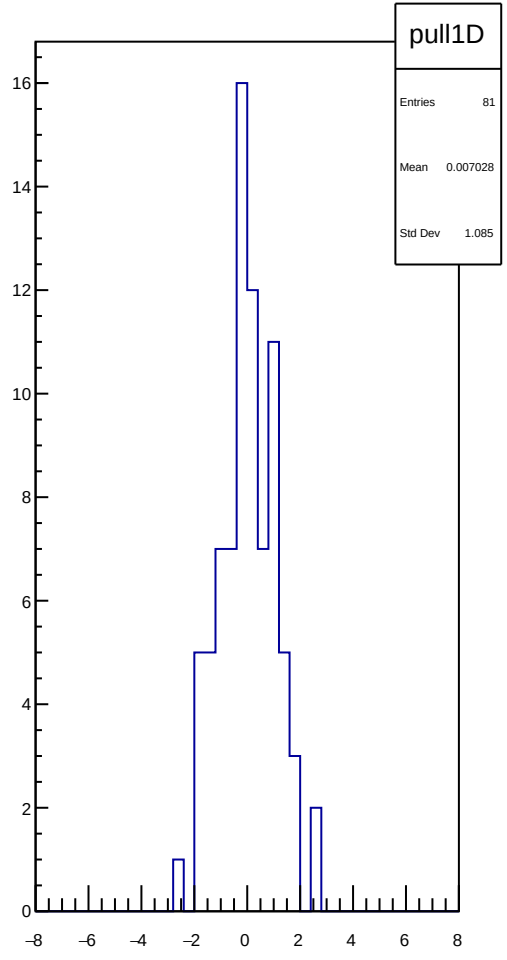

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 9307 / 80
p0 10.98 ± 0.008877
14
13
12
11
10

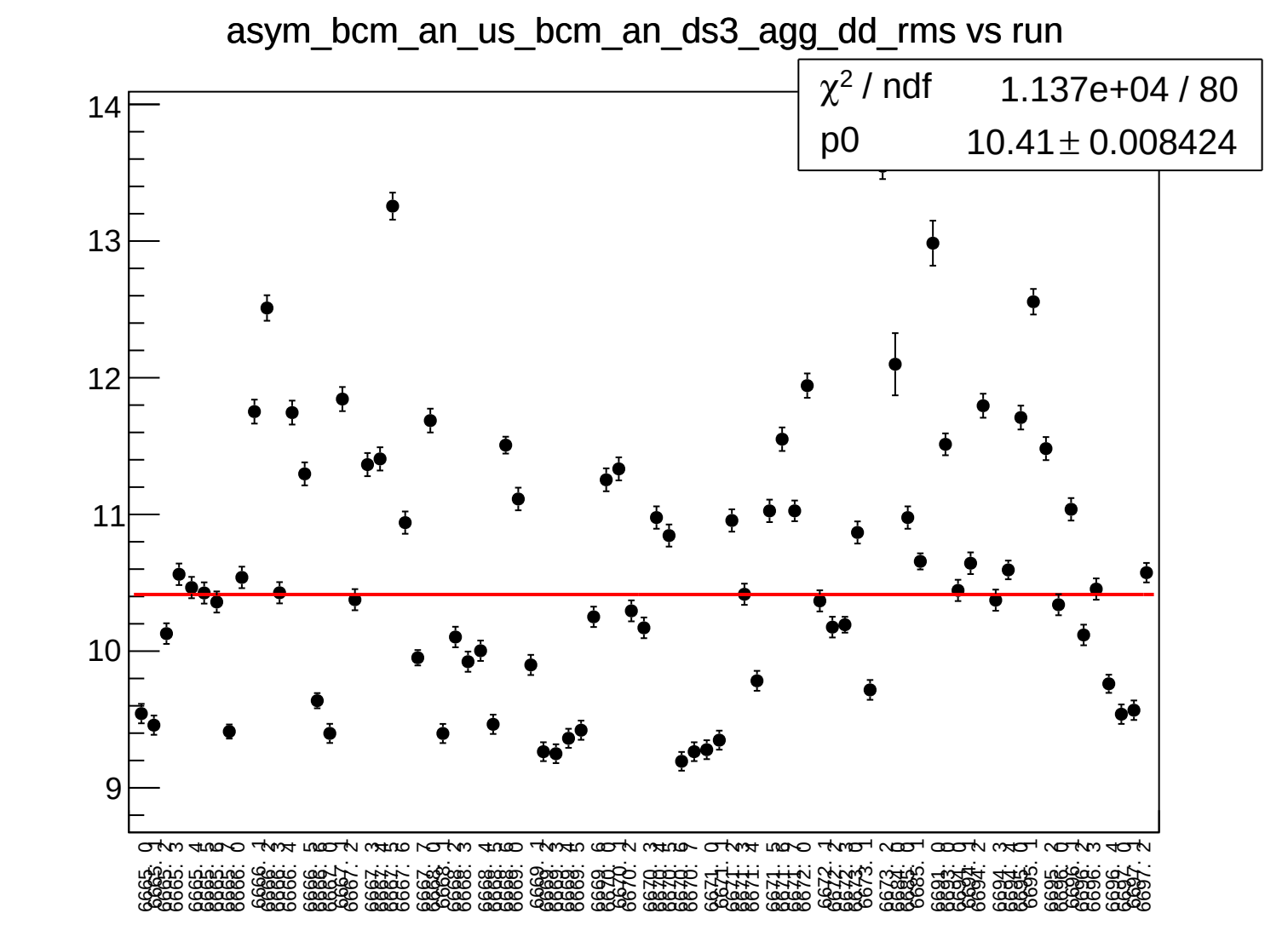

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.19 / 80
p0 131 ± 371.4
pull
Entries 81
Mean −25.16
Std Dev 92.54

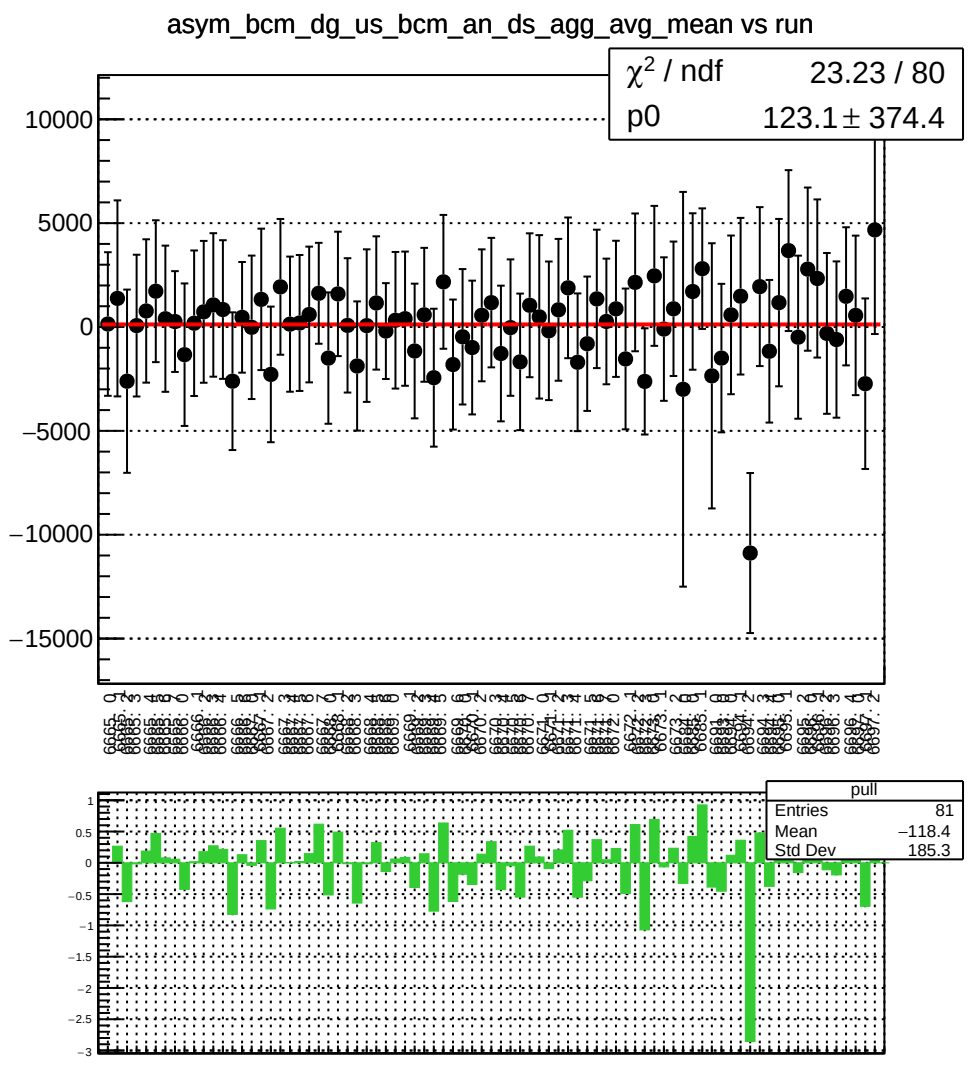

pull1D
Entries 81
Mean −0.004271
Std Dev 0.535

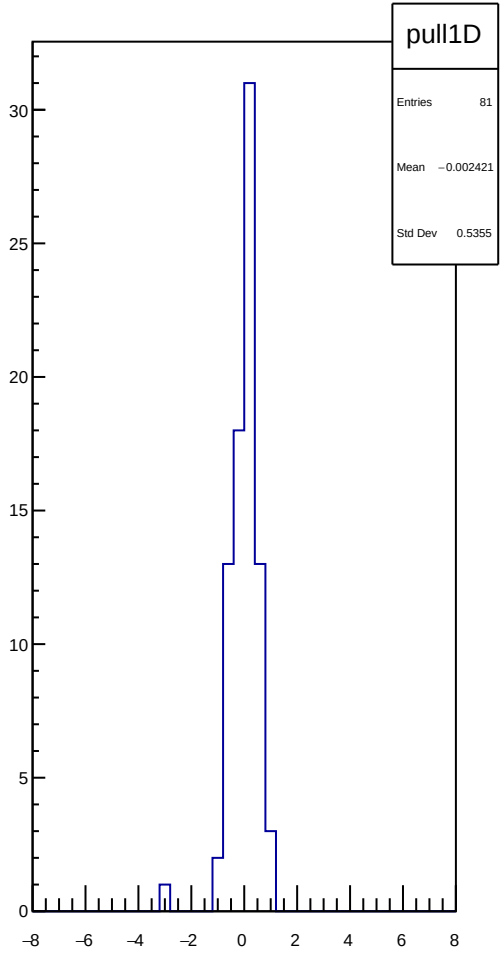

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.347e+04 / 80
p0 324.5 ± 0.2626
550
500
450
400
350
300

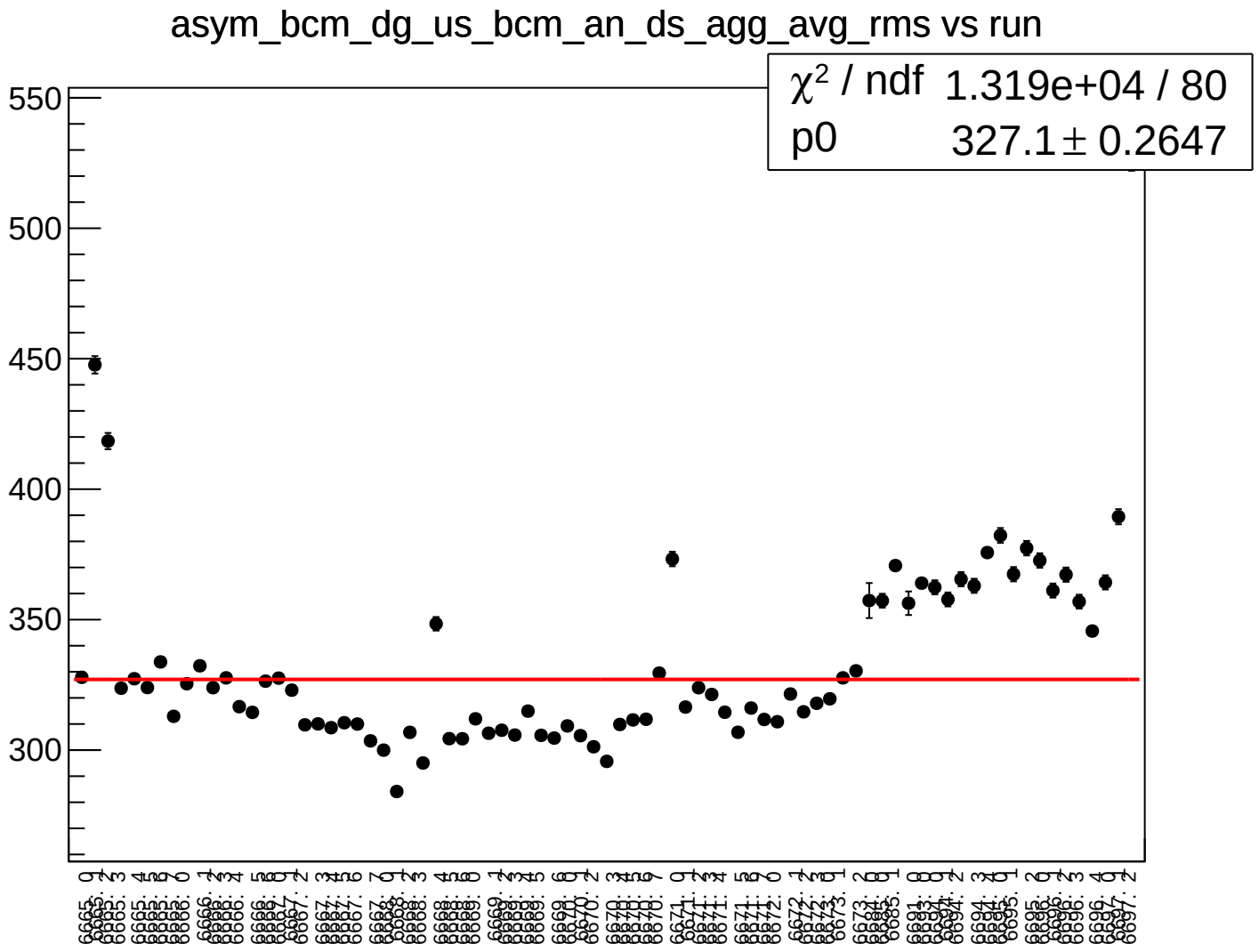

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 95.39 / 80
p0 −8.308 ± 11.91
400
200
0
−200
−400
pull
Entries 81
Mean 610.8
Std Dev 570.3
2
1
0
−1
−2

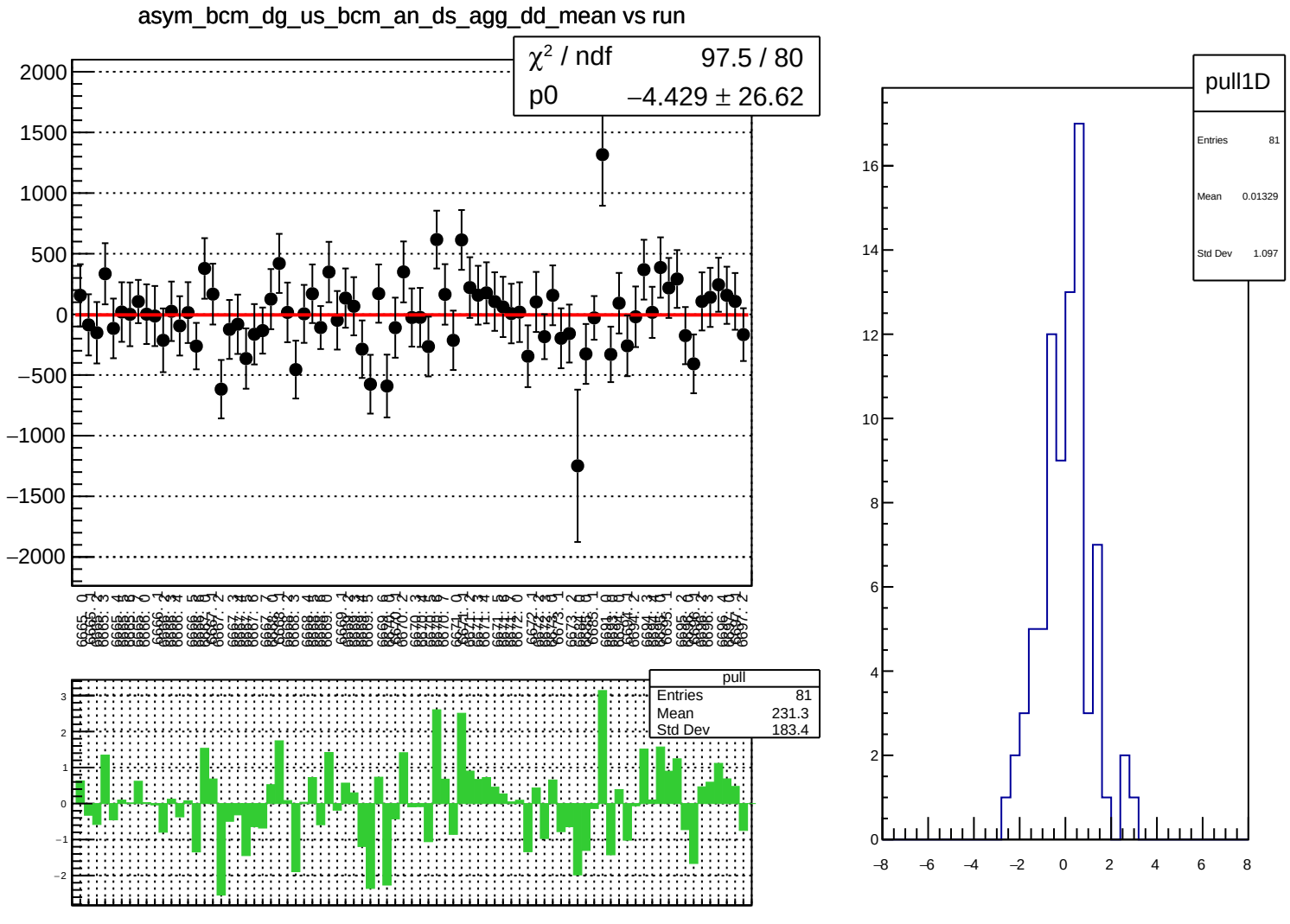

pull1D
Entries 81
Mean 0.007028
Std Dev 1.085
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

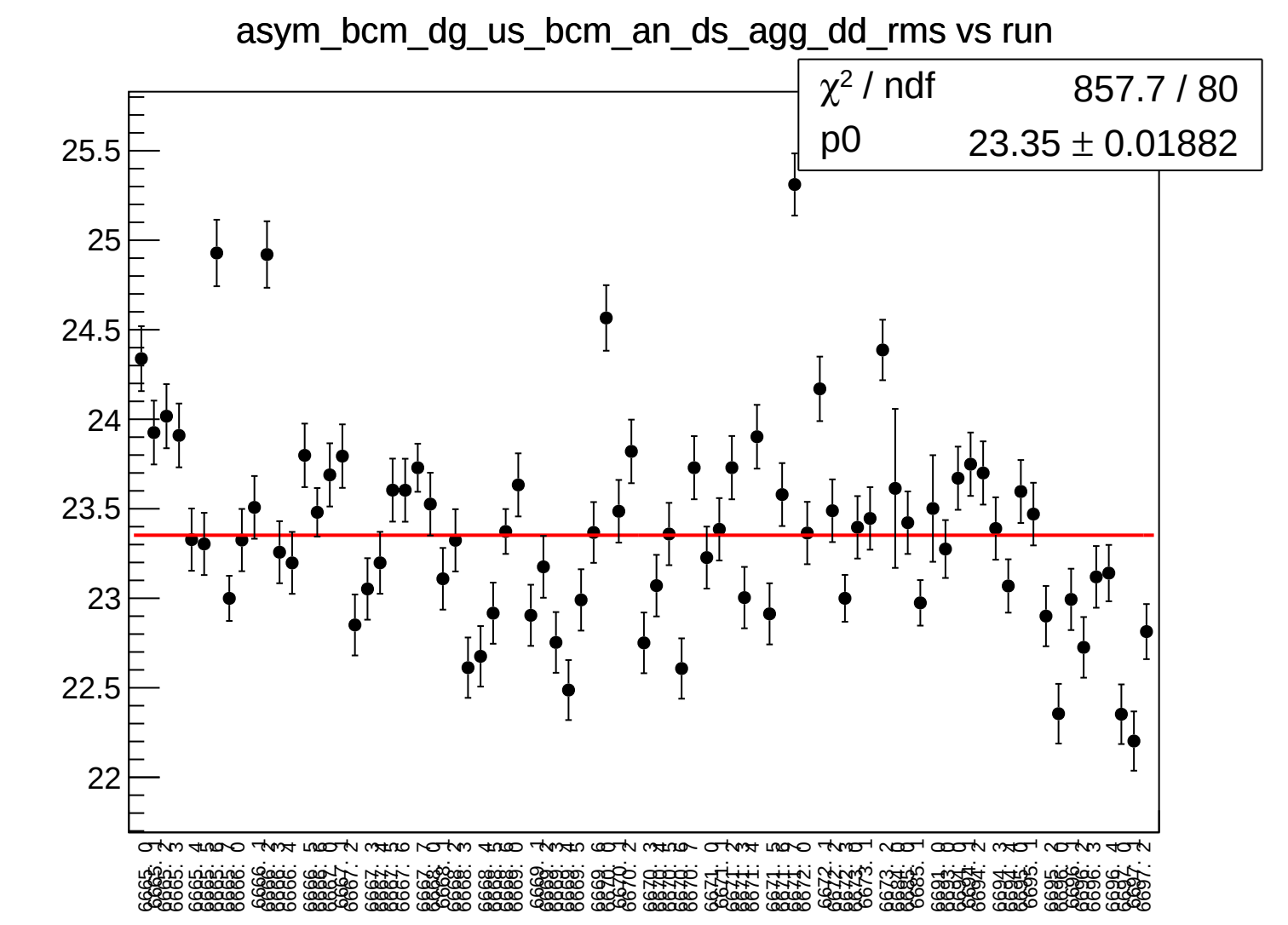

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.137e+04 / 80
p0 10.41 ± 0.008424
14
13
12
11
10
9

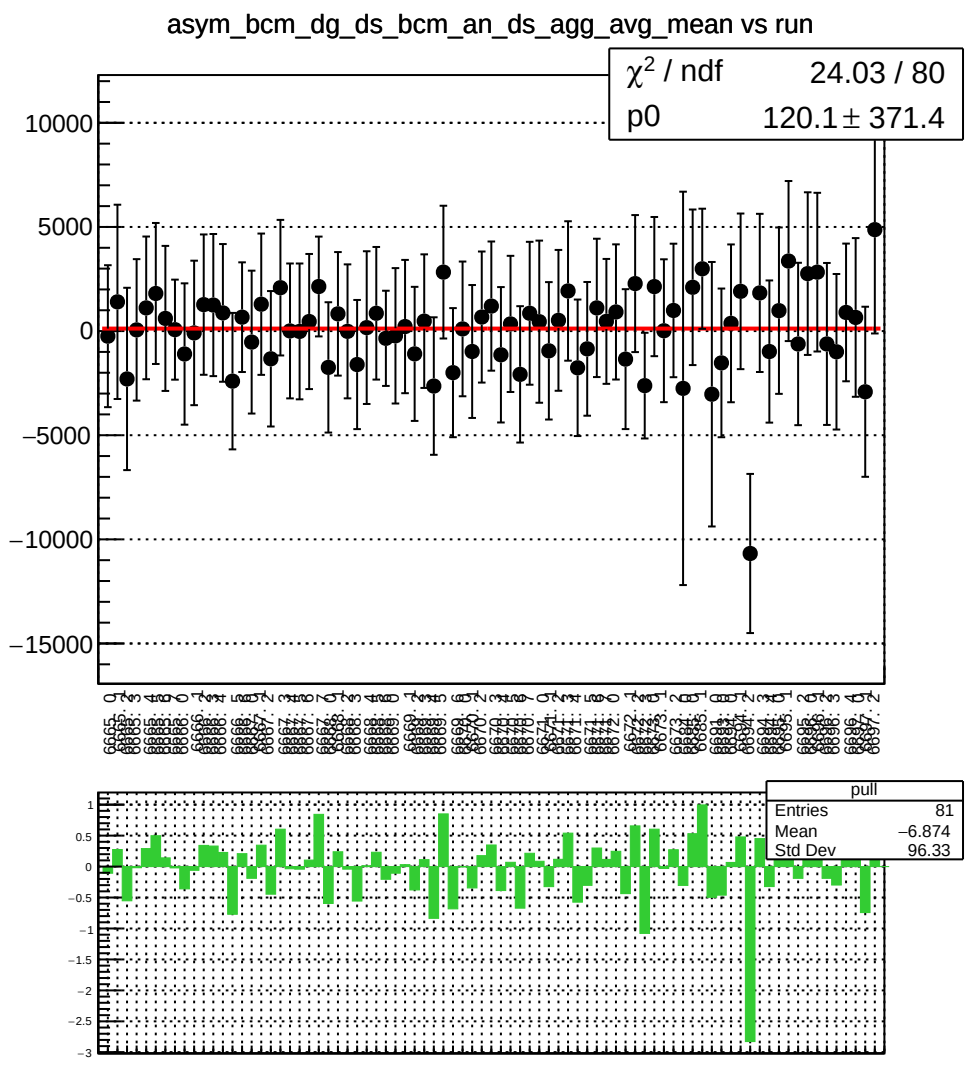

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.23 / 80
p0 123.1 ± 374.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −118.4
Std Dev 185.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

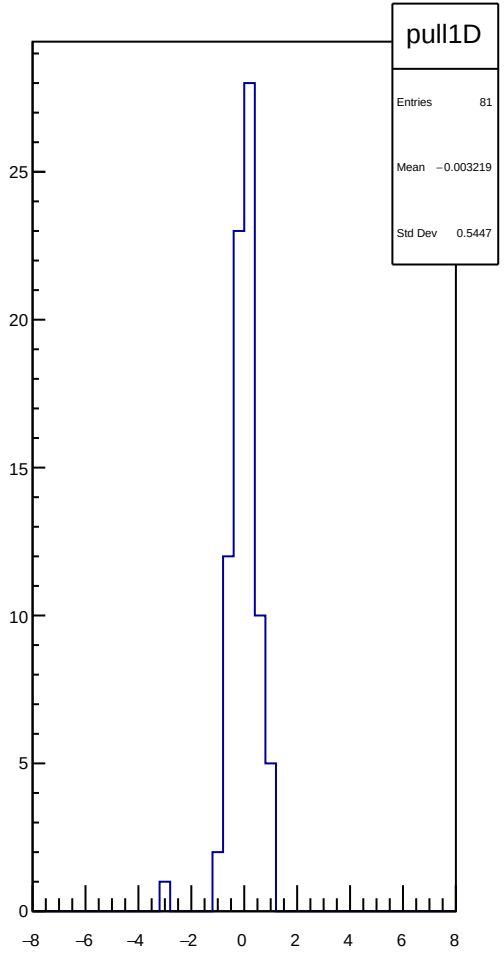

pull1D
Entries 81
Mean −0.002421
Std Dev 0.5355
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

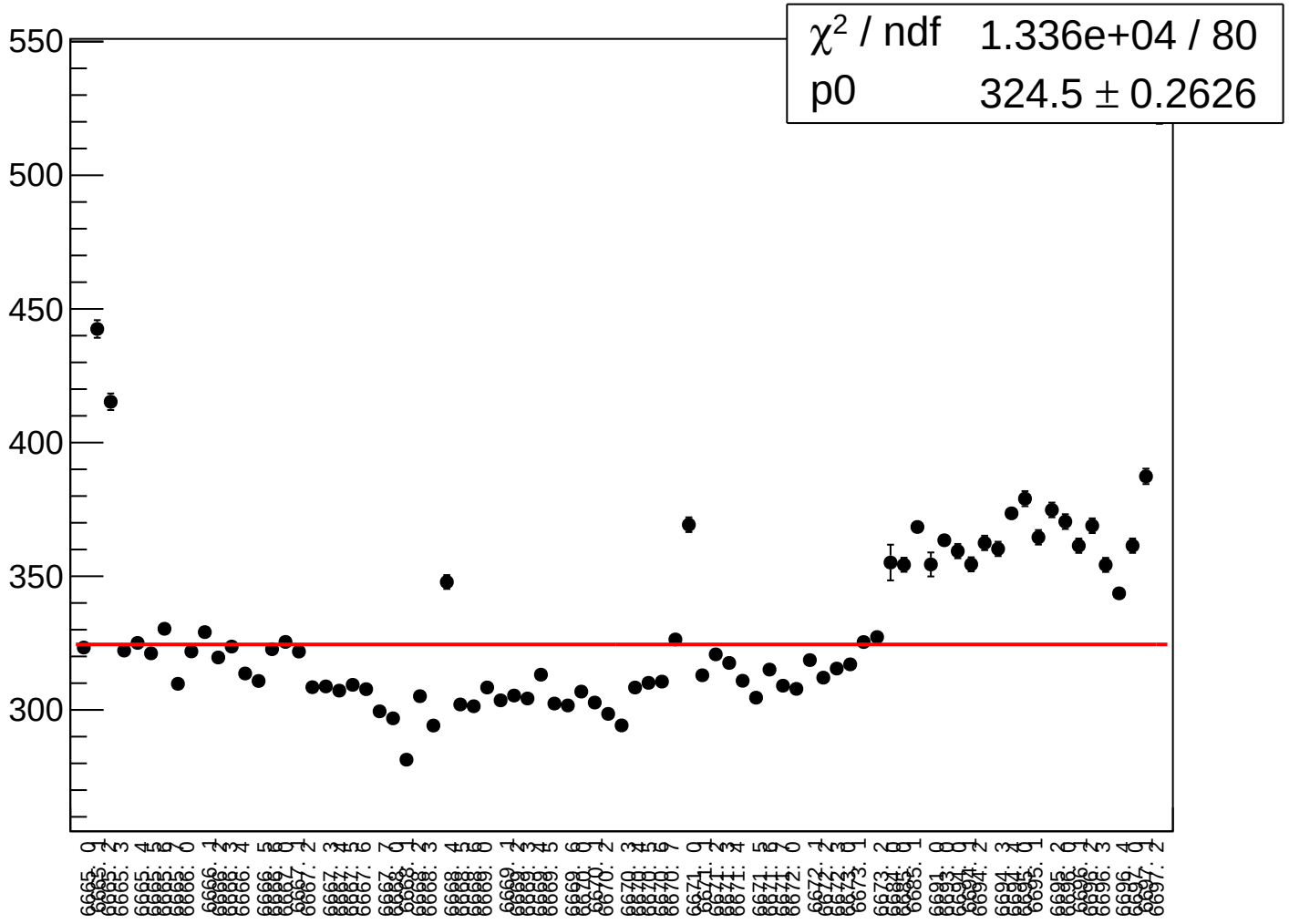

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.319e+04 / 80
p0 327.1 ± 0.2647
550
500
450
400
350
300

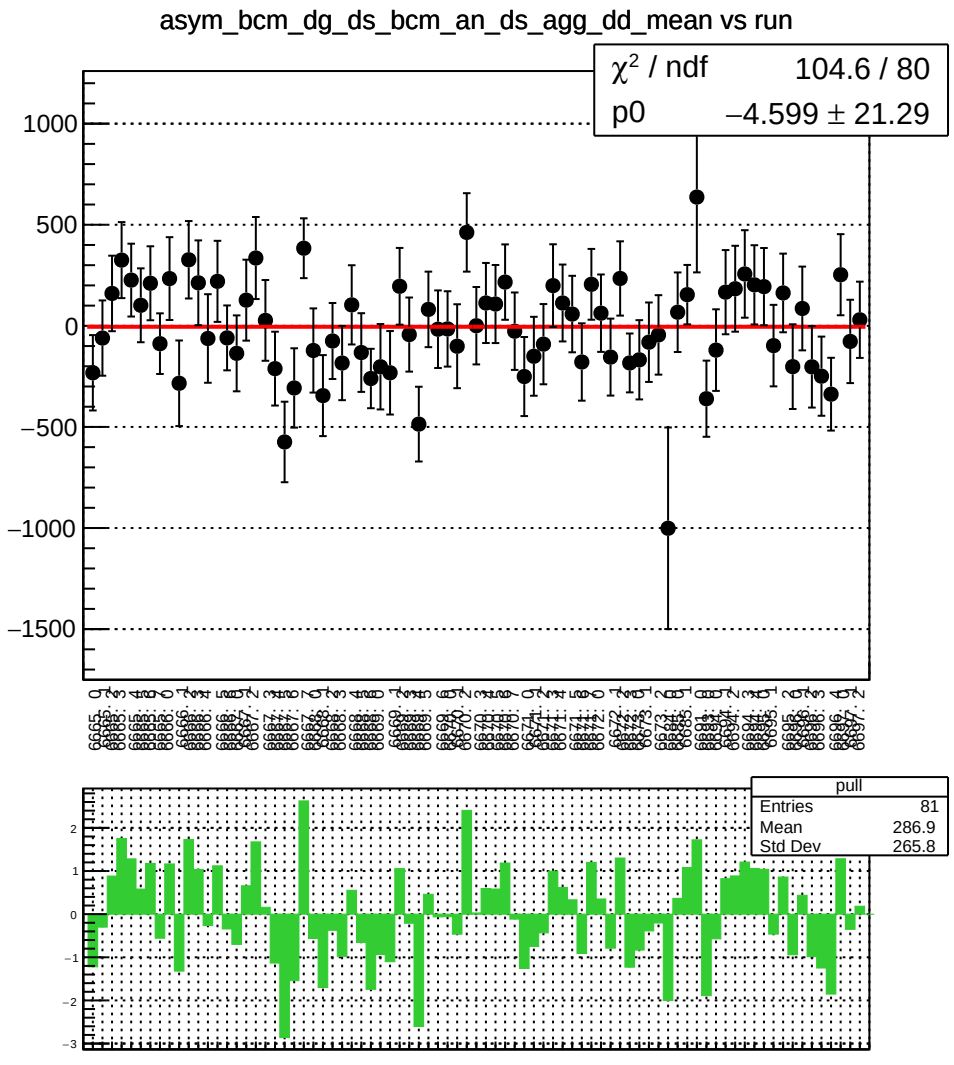

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 97.5 / 80
p0 −4.429 ± 26.62
pull
Entries 81
Mean 231.3
Std Dev 183.4
pull1D
Entries 81
Mean 0.01329
Std Dev 1.097

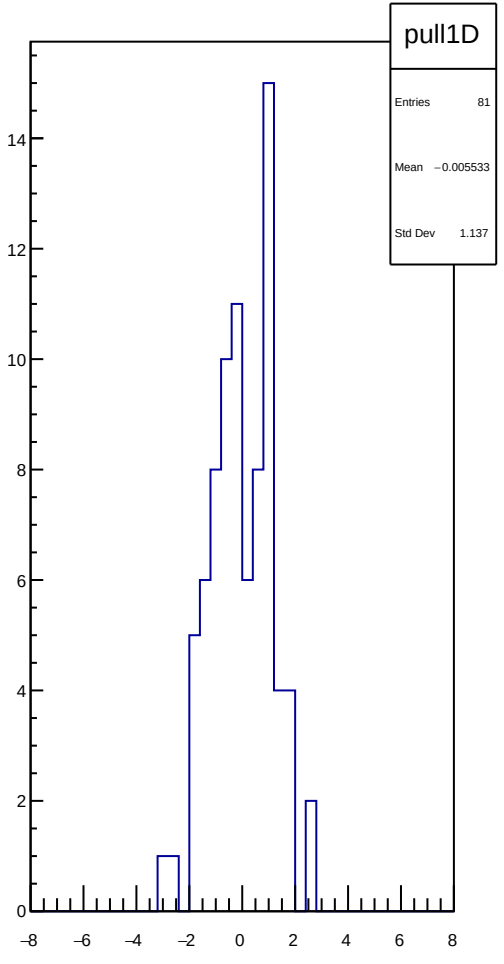

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 857.7 / 80
p0 23.35 ± 0.01882
25.5
25
24.5
24
23.5
23
22.5
22

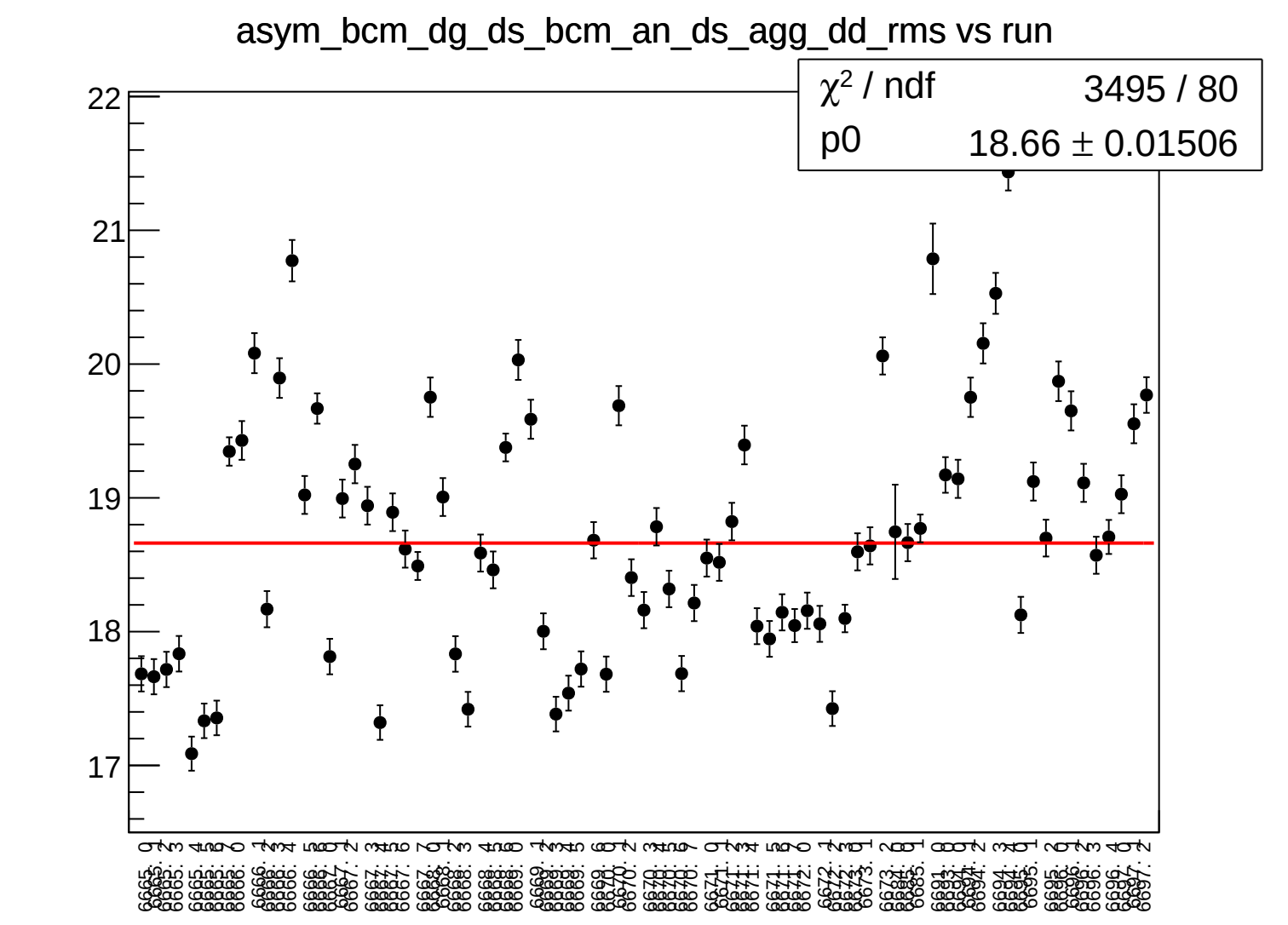

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.03 / 80
p0 120.1 ± 371.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −6.874
Std Dev 96.33
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

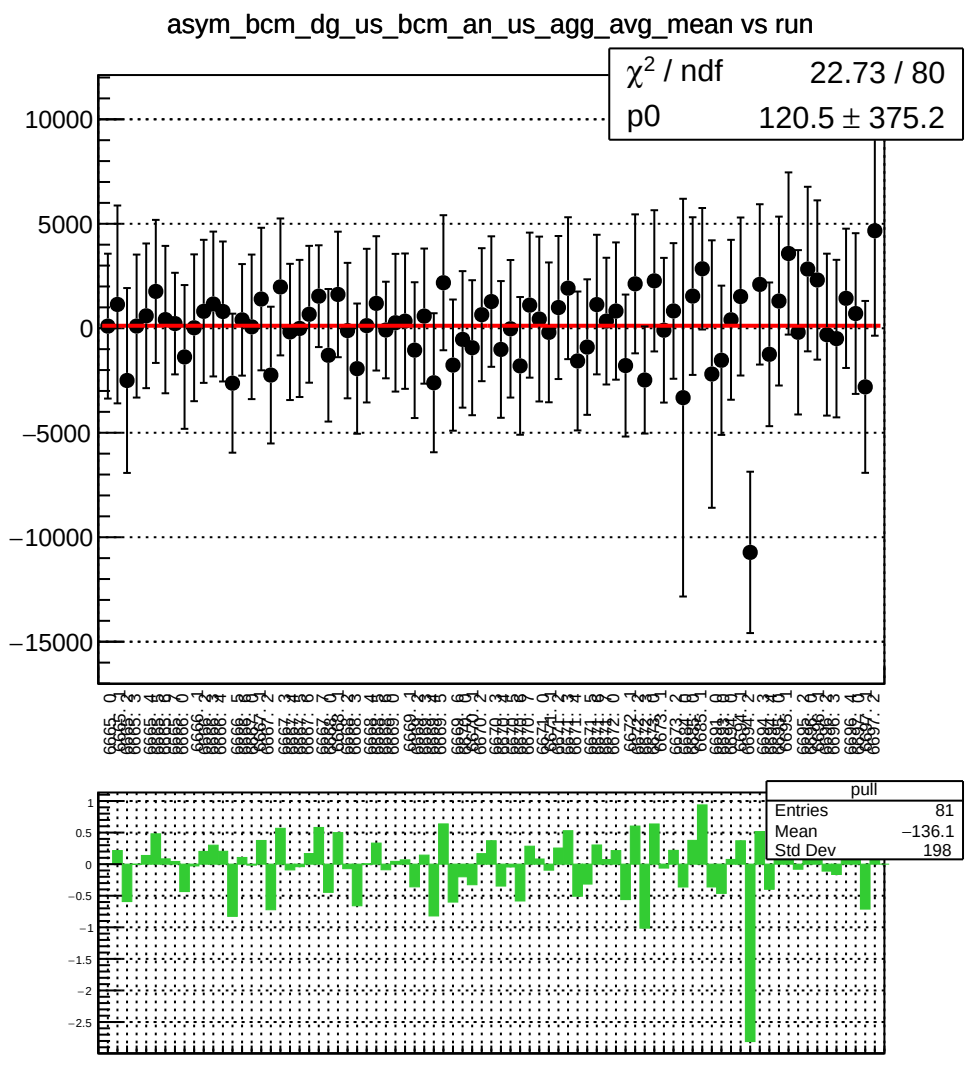

pull1D
Entries 81
Mean −0.003219
Std Dev 0.5447
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

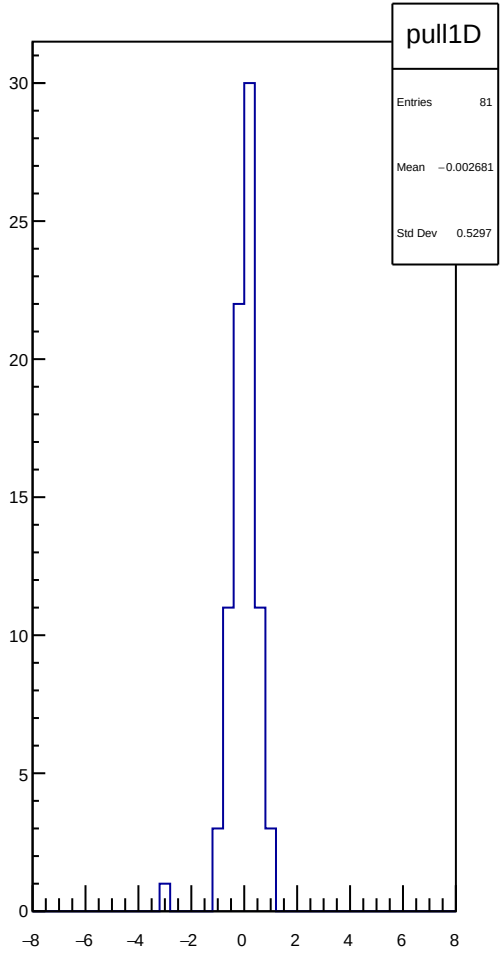

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.336e+04 / 80
p0 324.5 ± 0.2626
550
500
450
400
350
300

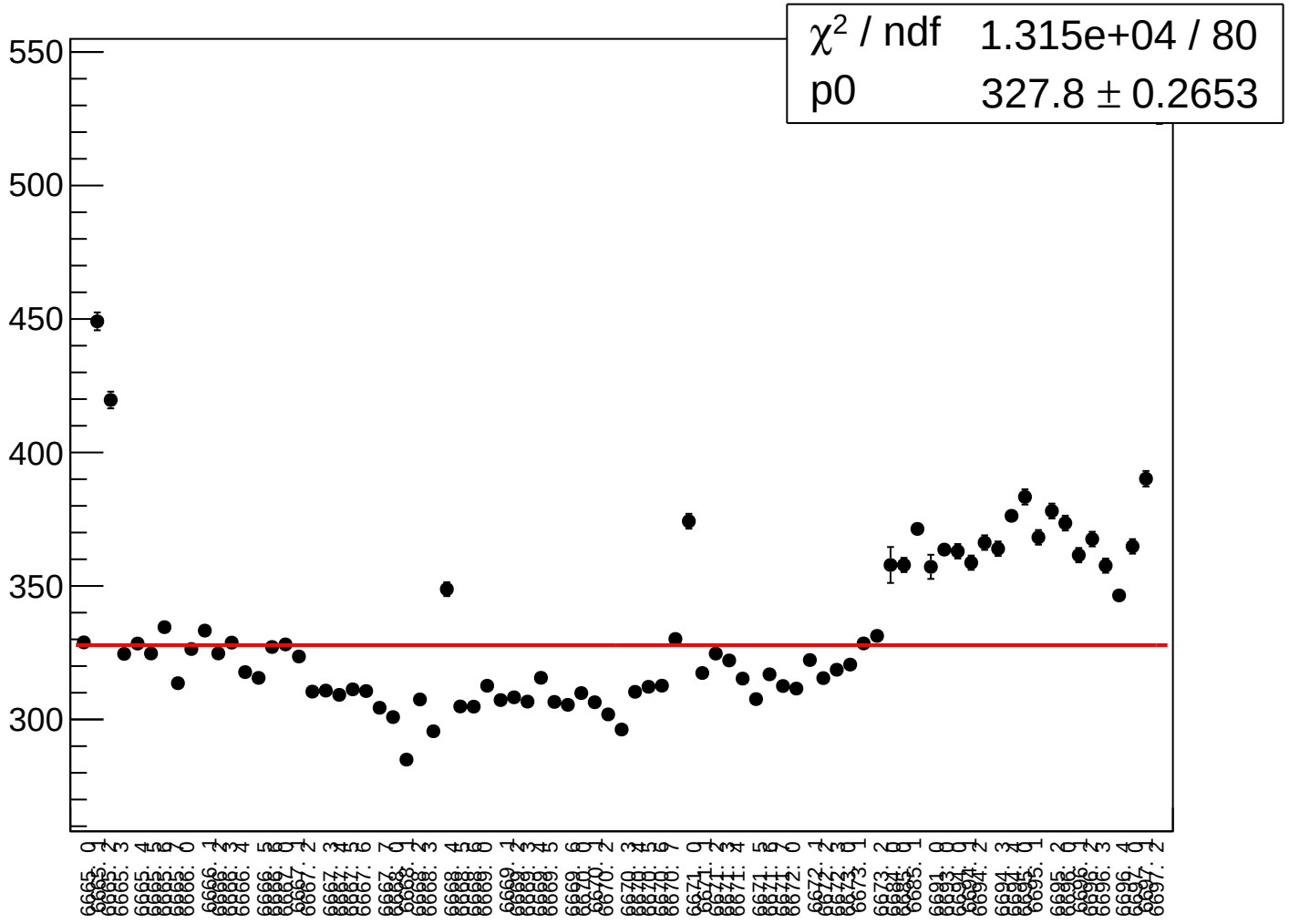

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 104.6 / 80
p0 −4.599 ± 21.29
pull
Entries 81
Mean 286.9
Std Dev 265.8

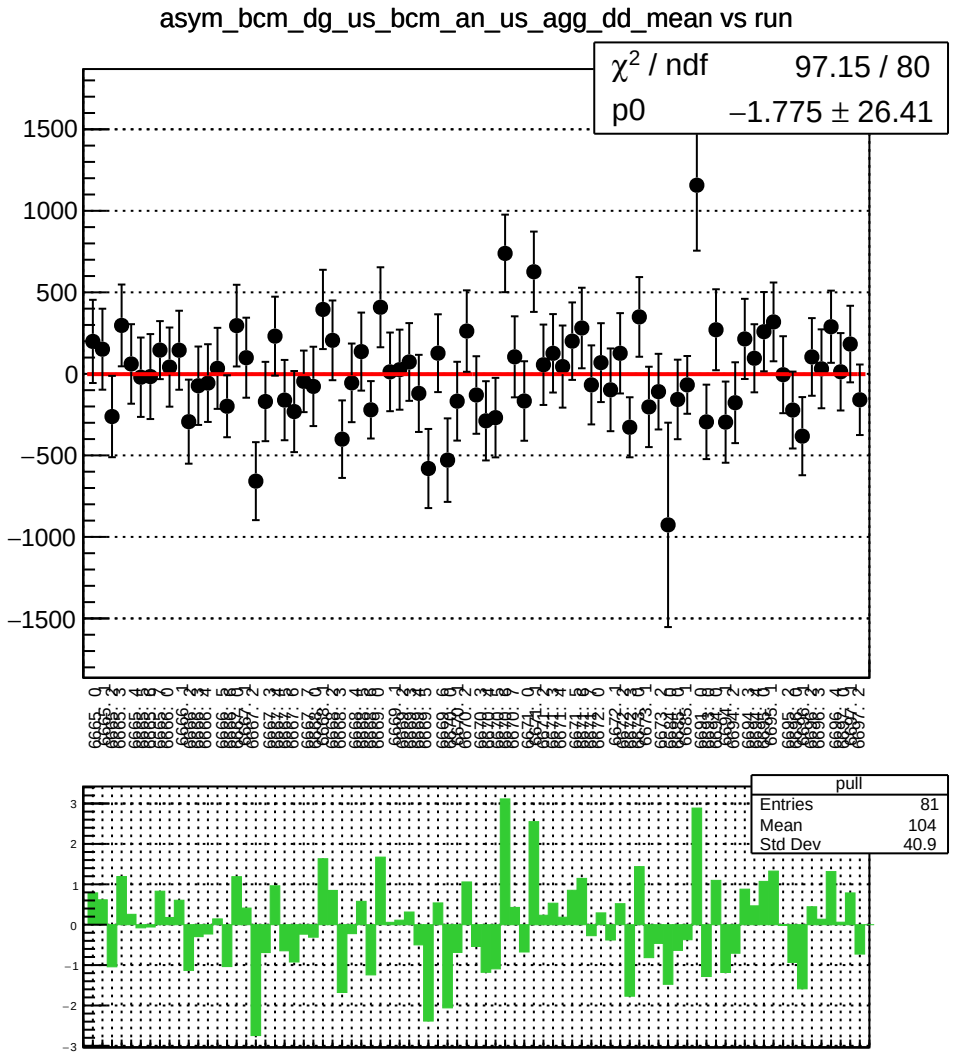

pull1D
Entries 81
Mean −0.005533
Std Dev 1.137

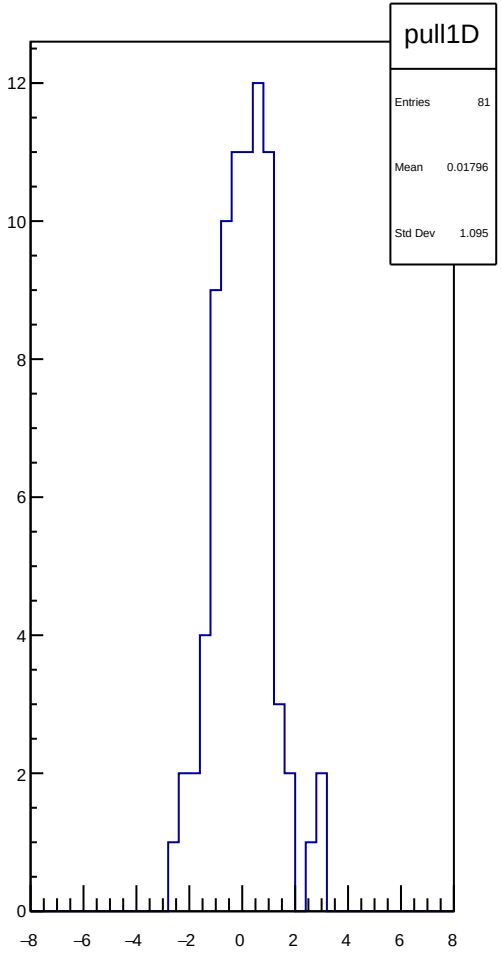

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3495 / 80
p0 18.66 ± 0.01506
22
21
20
19
18
17

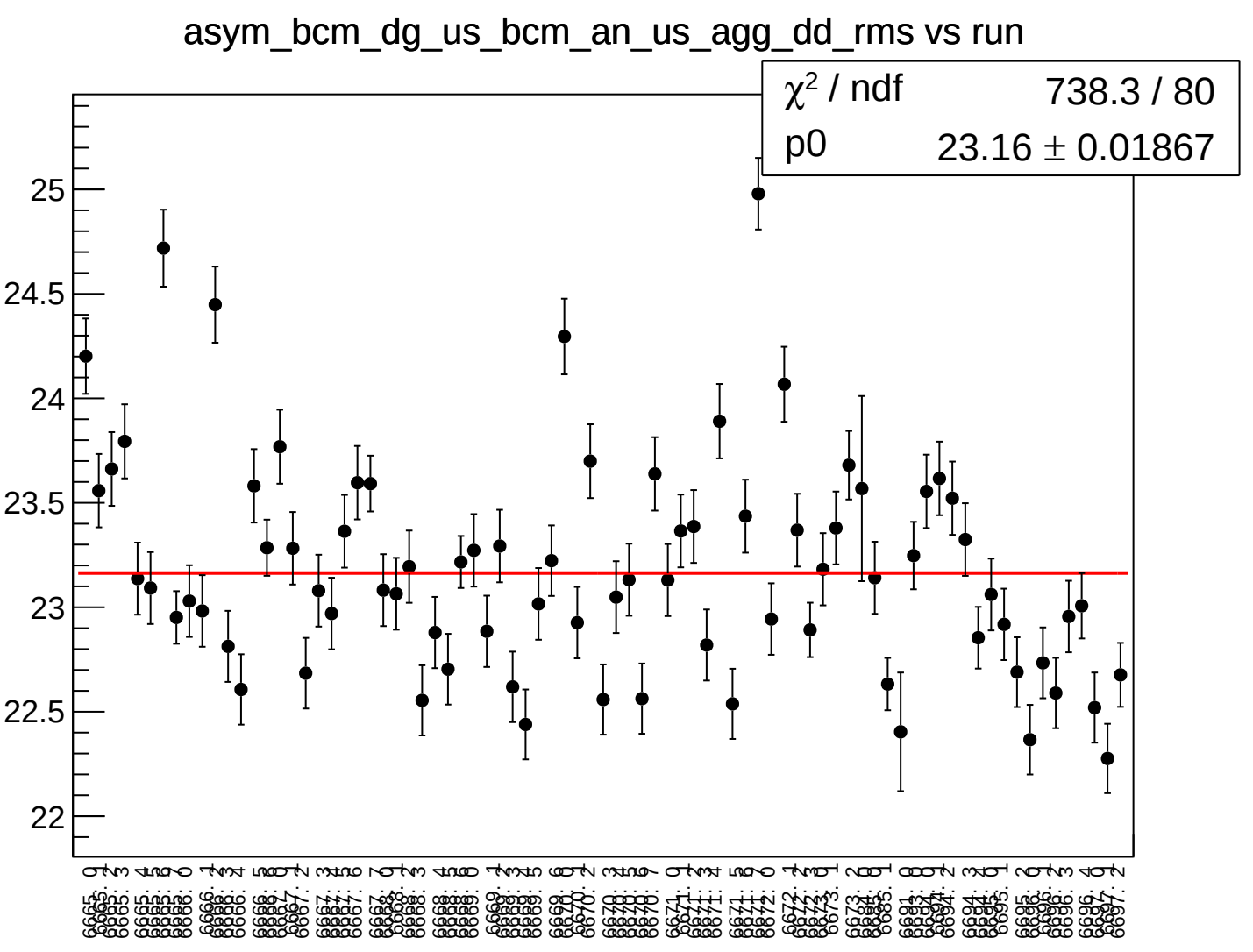

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.73 / 80
p0 120.5 ± 375.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −136.1
Std Dev 198
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

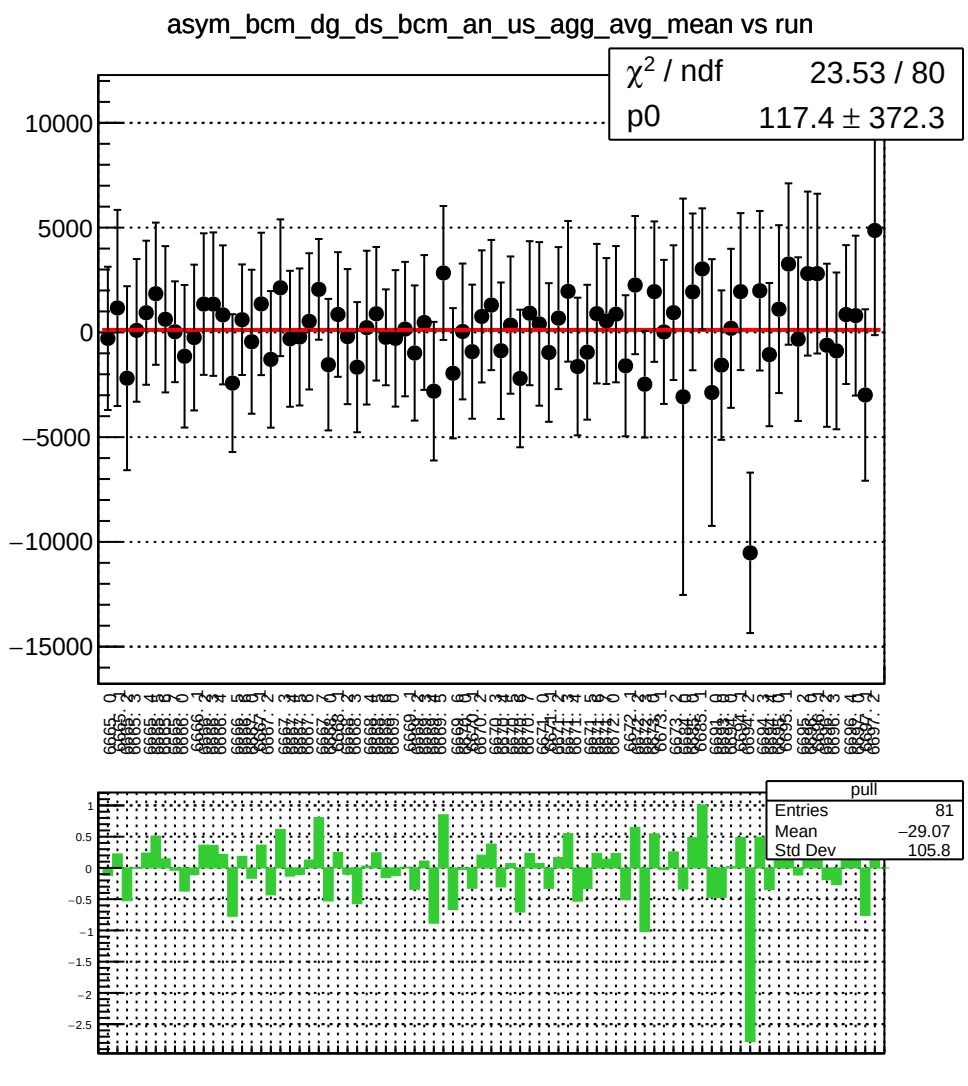

pull1D
Entries 81
Mean −0.002681
Std Dev 0.5297
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

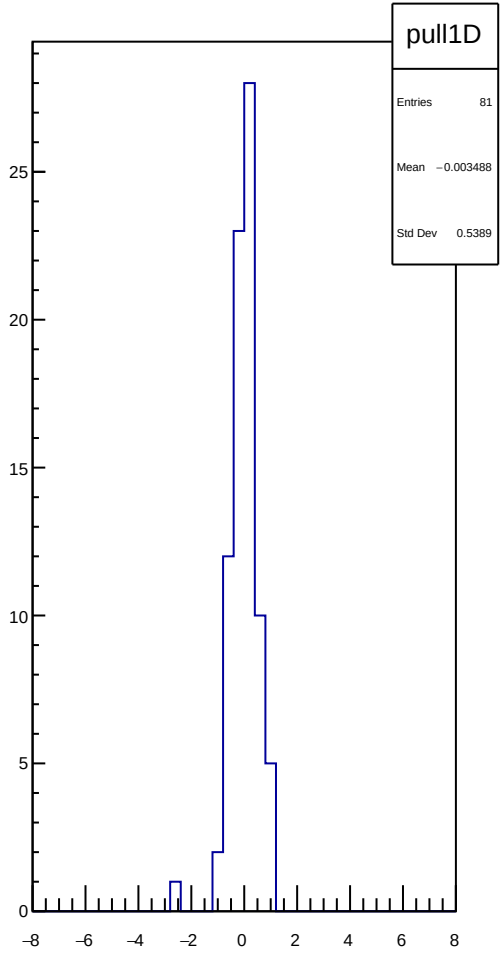

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.315e+04 / 80
p0 327.8 ± 0.2653
550
500
450
400
350
300

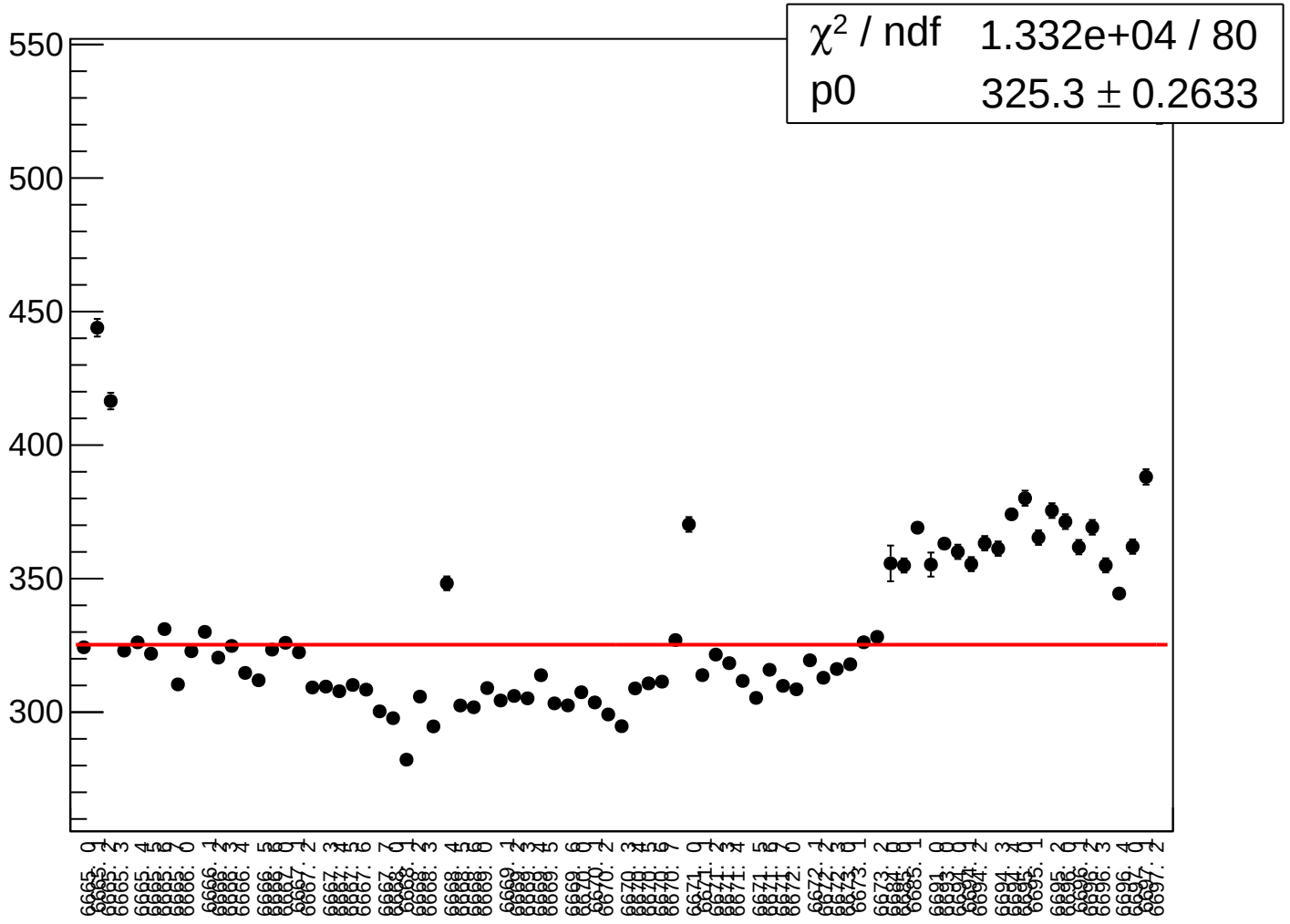

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 97.15 / 80
p0 −1.775 ± 26.41
pull
Entries 81
Mean 104
Std Dev 40.9

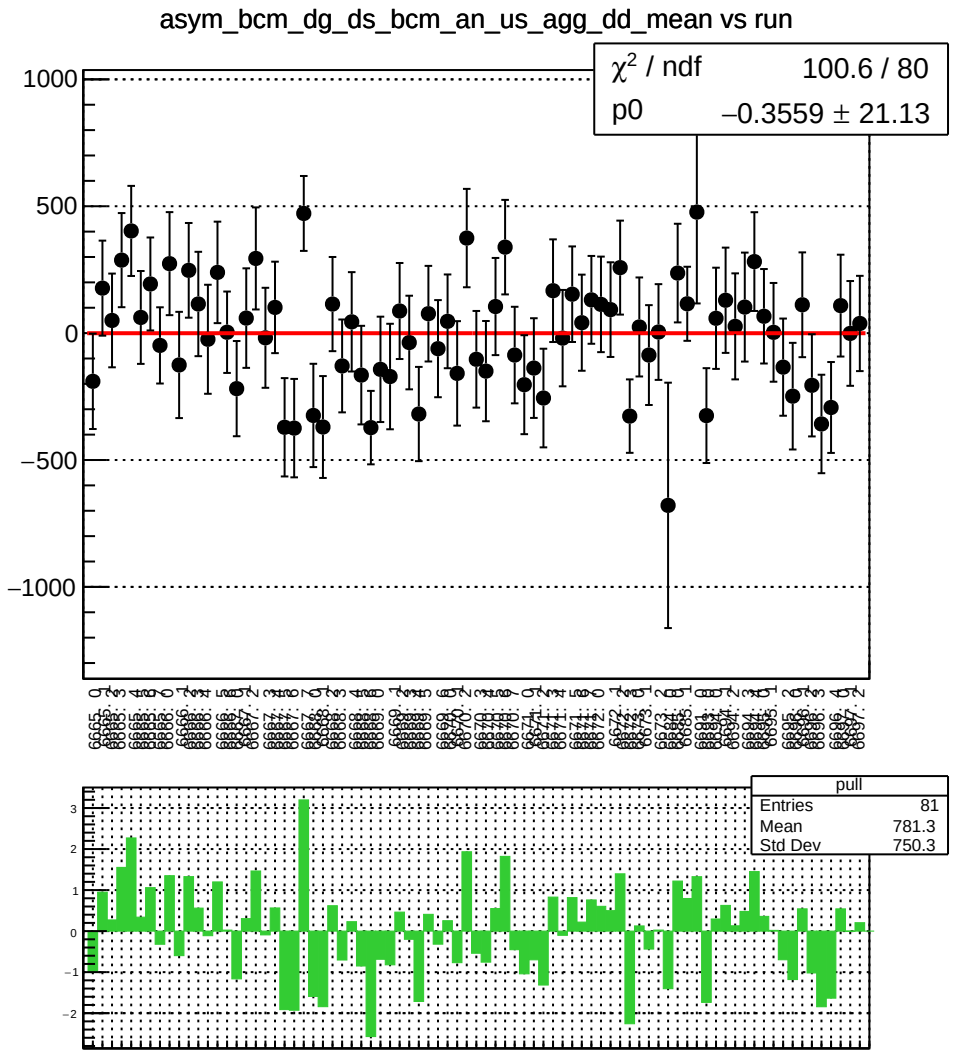

pull1D
Entries 81
Mean 0.01796
Std Dev 1.095

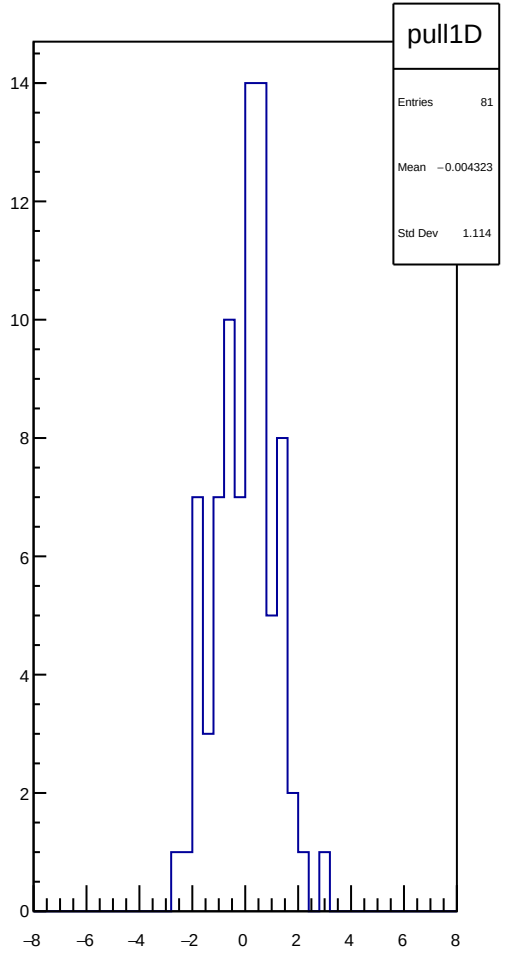

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 738.3 / 80
p0 23.16 ± 0.01867
25
24.5
24
23.5
23
22.5
22

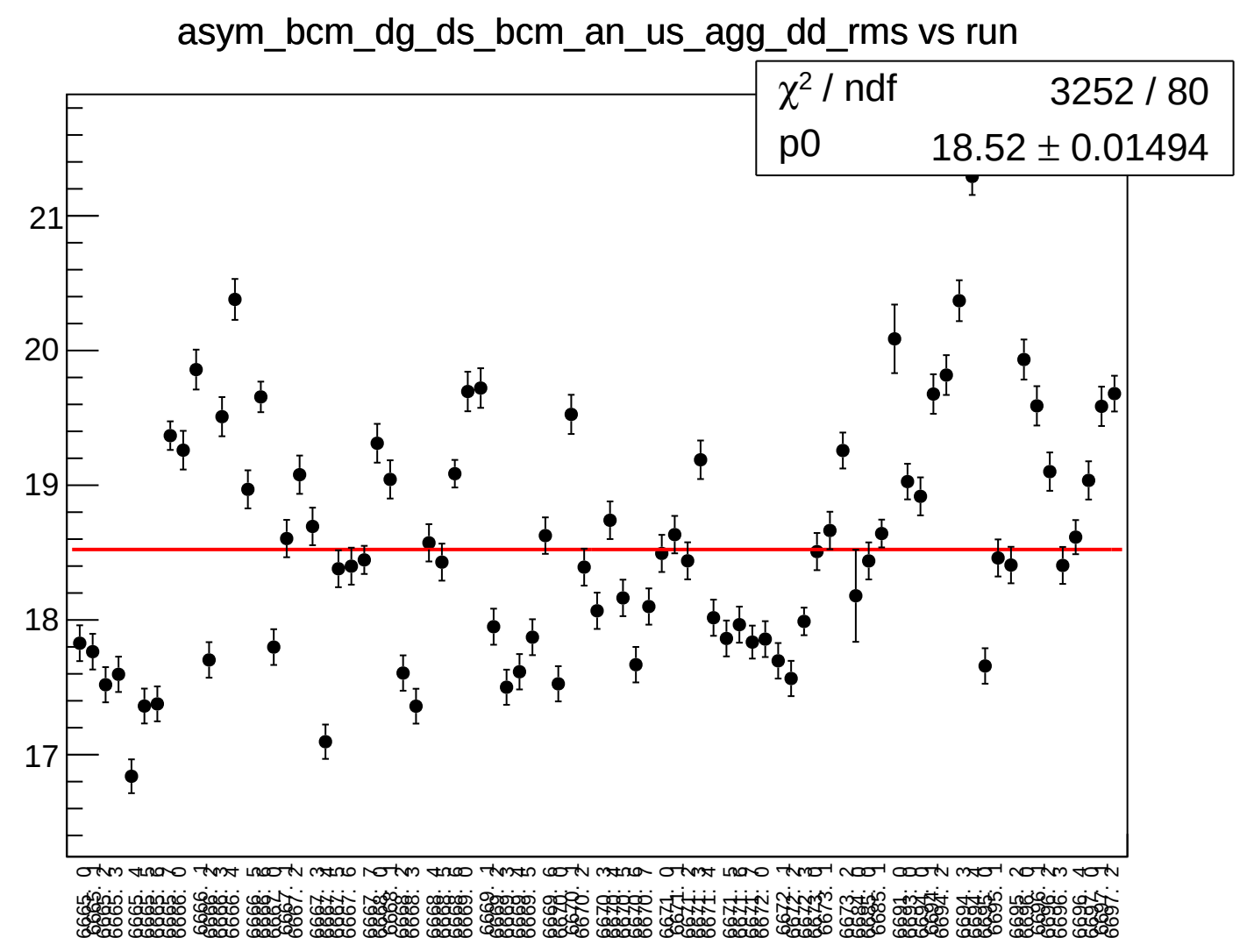

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 23.53 / 80
p0 117.4 ± 372.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −29.07
Std Dev 105.8
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

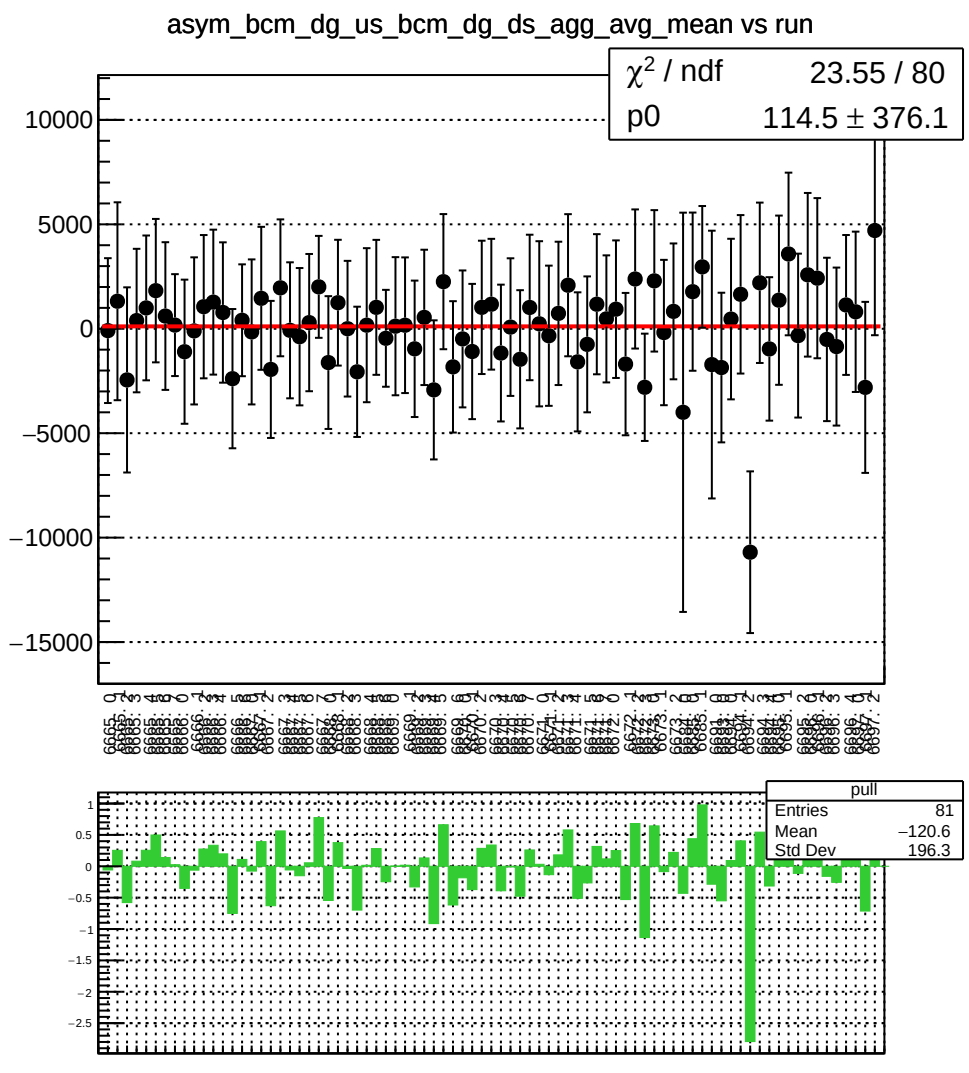

pull1D
Entries 81
Mean −0.003488
Std Dev 0.5389
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

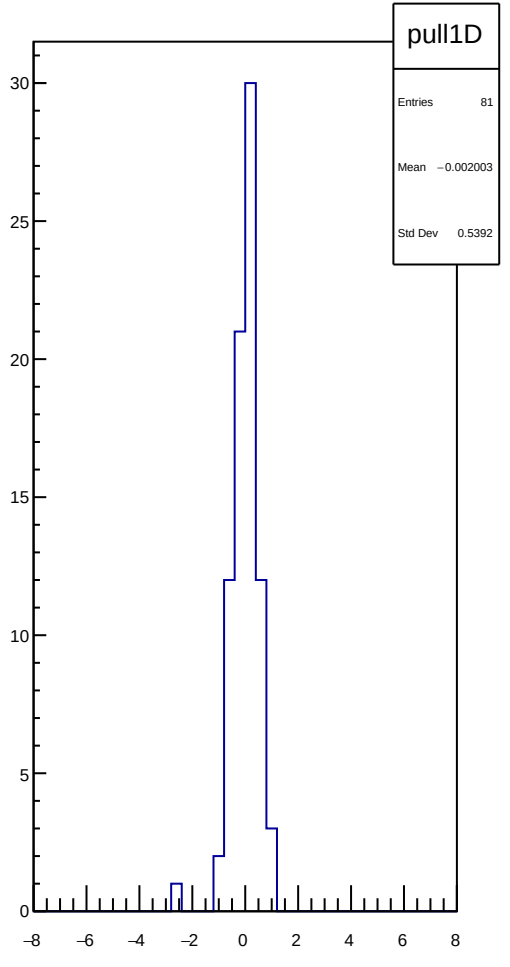

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.332e+04 / 80
p0 325.3 ± 0.2633
550
500
450
400
350
300

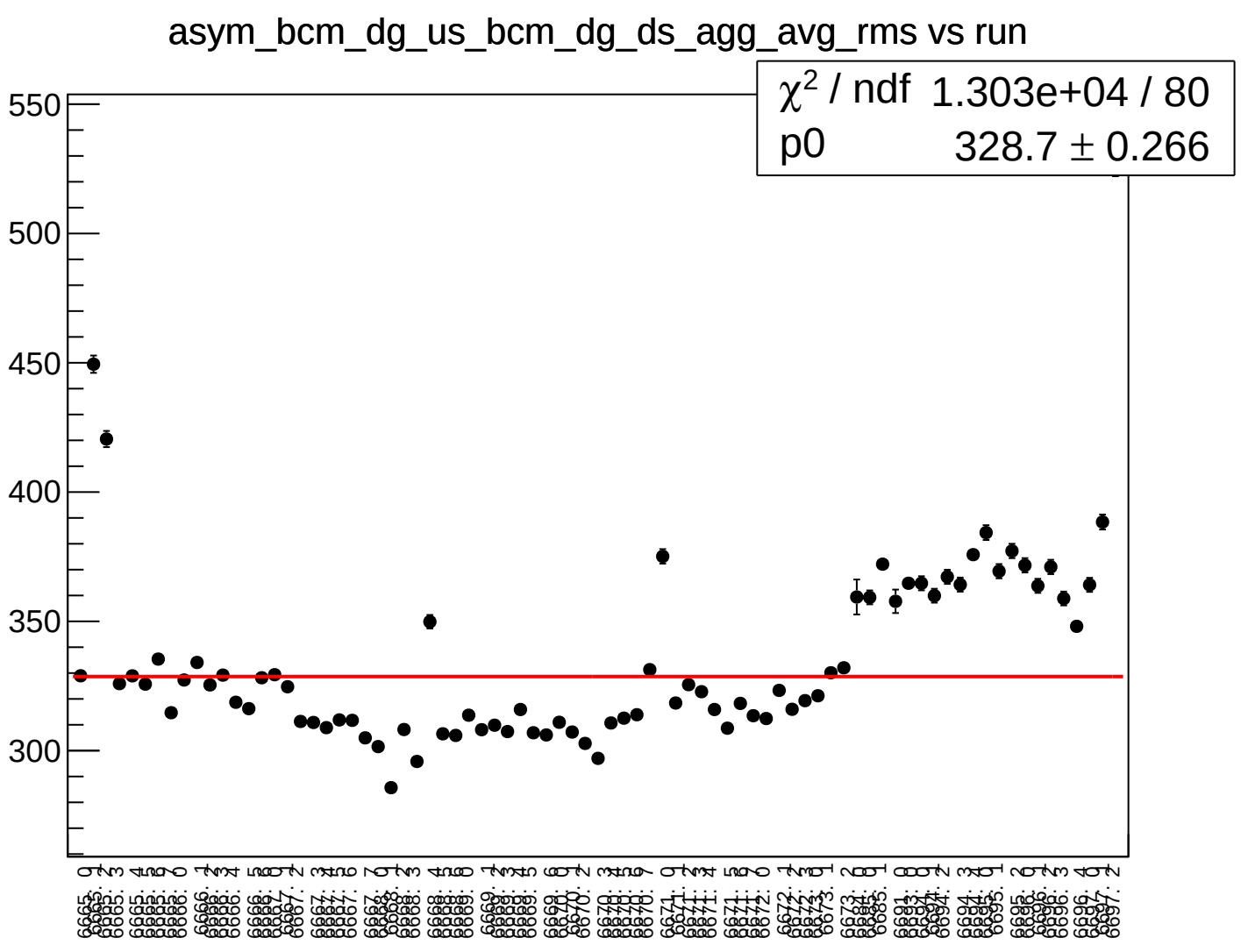

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 100.6 / 80
p0 −0.3559 ± 21.13
1000
500
0
−500
−1000
pull
Entries 81
Mean 781.3
Std Dev 750.3
3
2
1
0
−1
−2

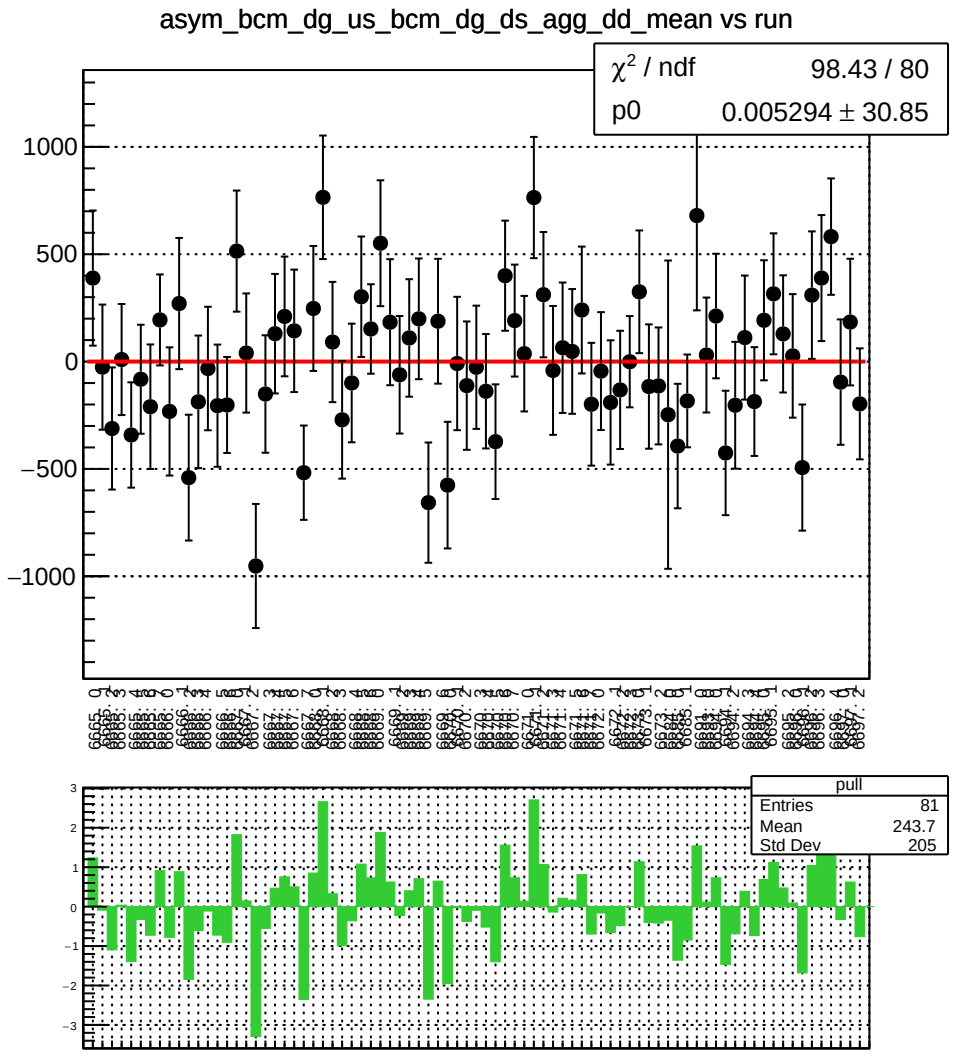

pull1D
Entries 81
Mean −0.004323
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

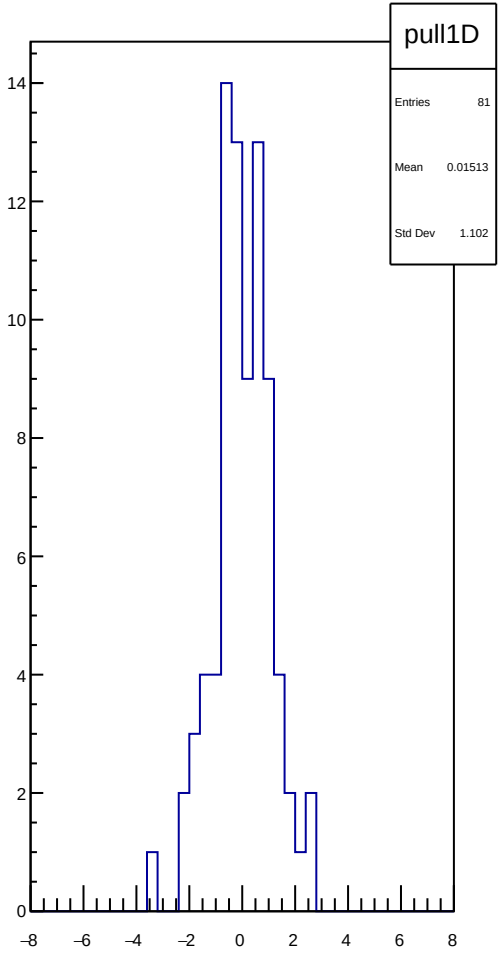

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3252 / 80
p0 18.52 ± 0.01494
21
20
19
18
17

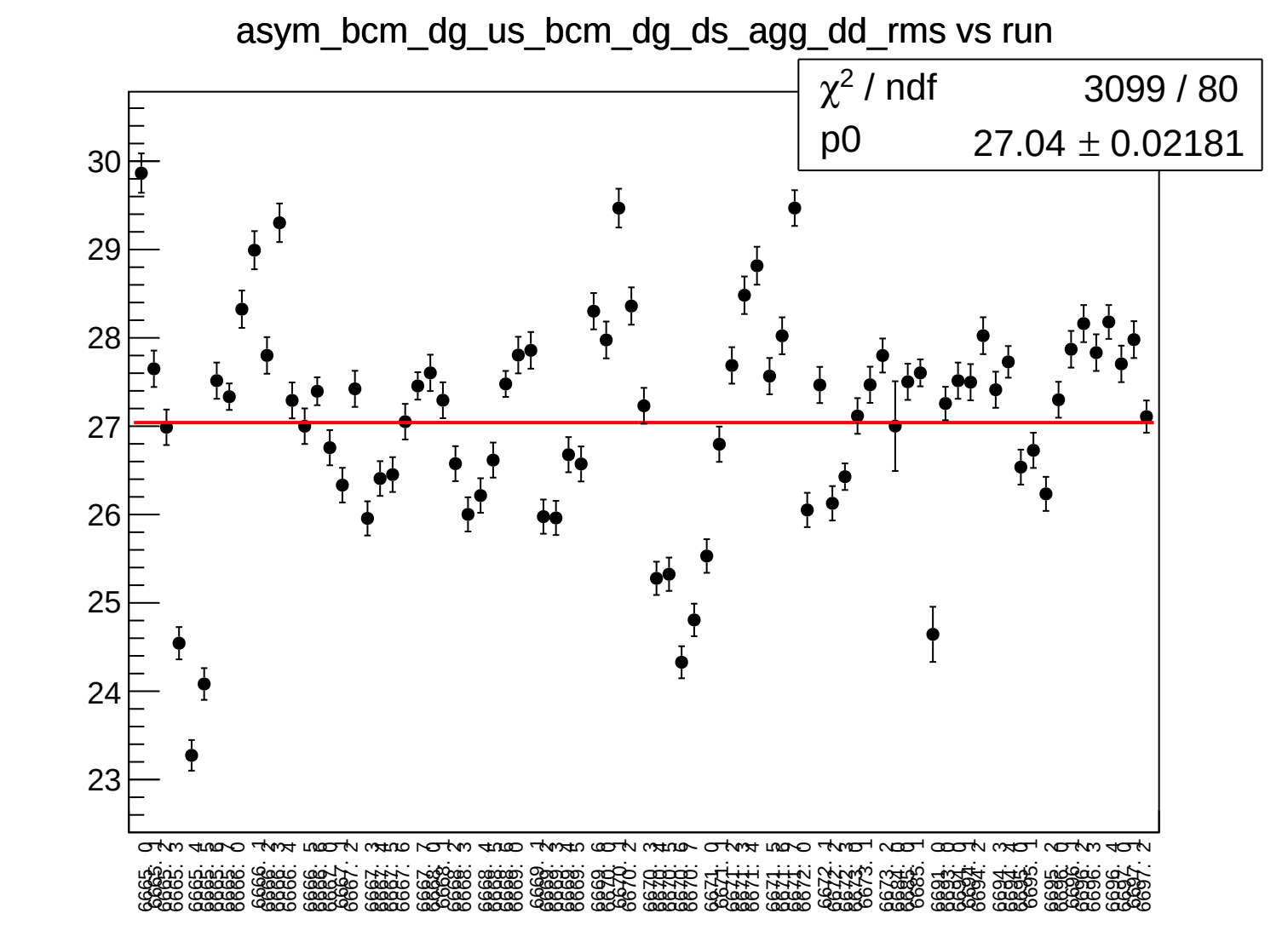

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.55 / 80
p0 114.5 ± 376.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −120.6
Std Dev 196.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

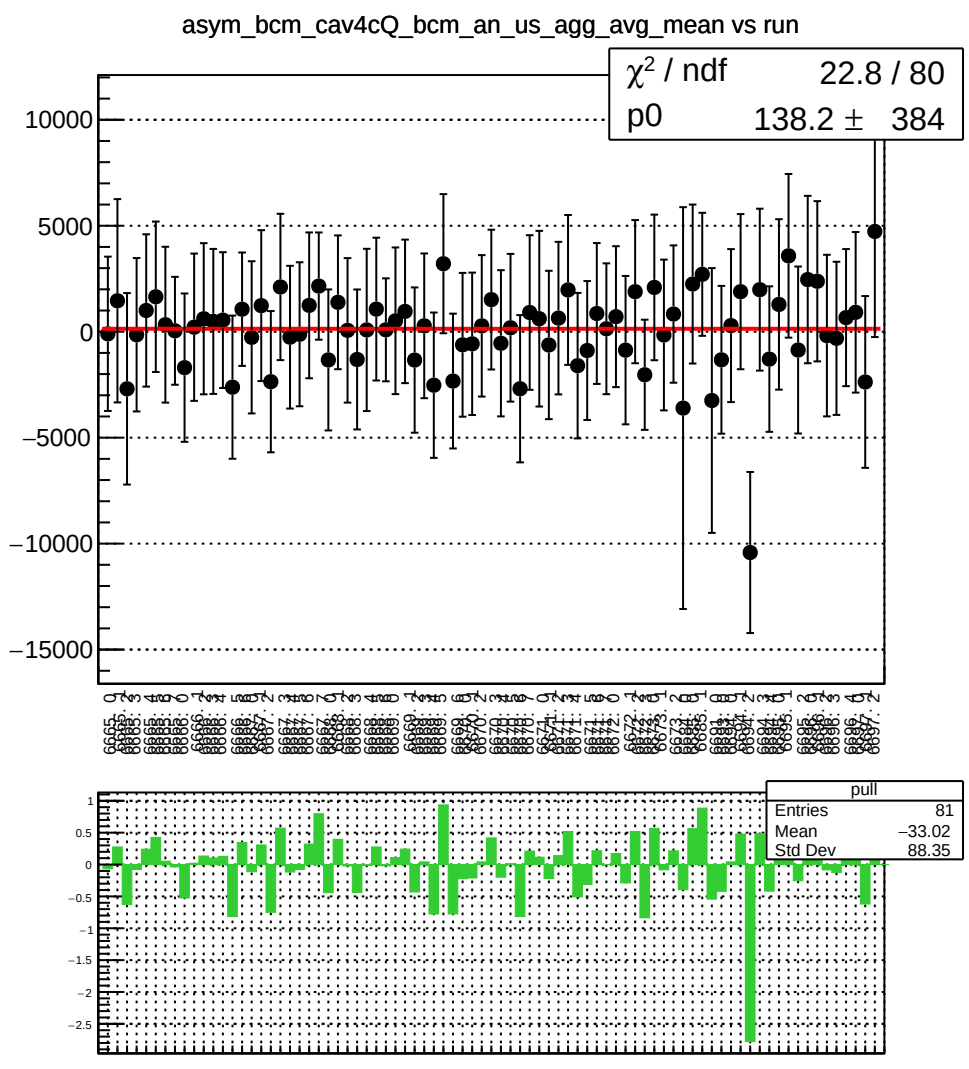

pull1D
Entries 81
Mean −0.002003
Std Dev 0.5392
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

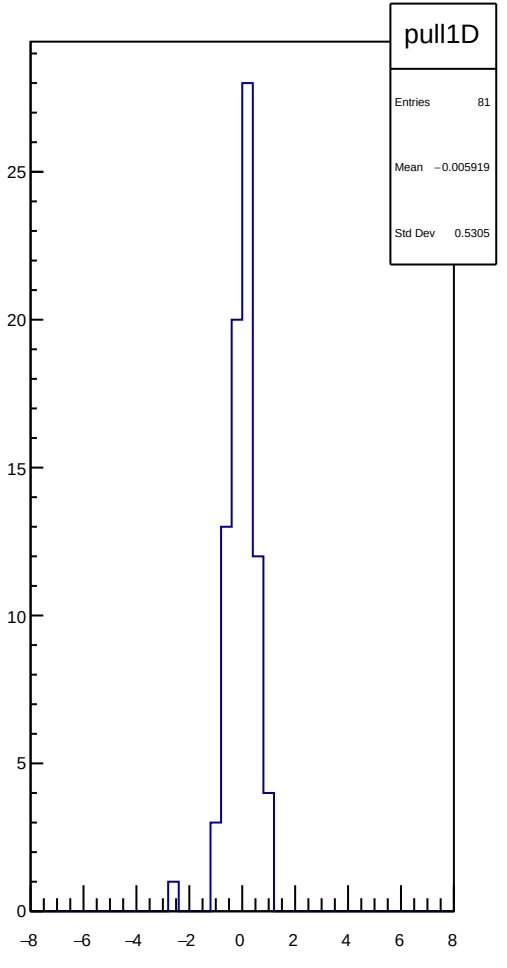

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.303e+04 / 80
p0 328.7 ± 0.266
550
500
450
400
350
300

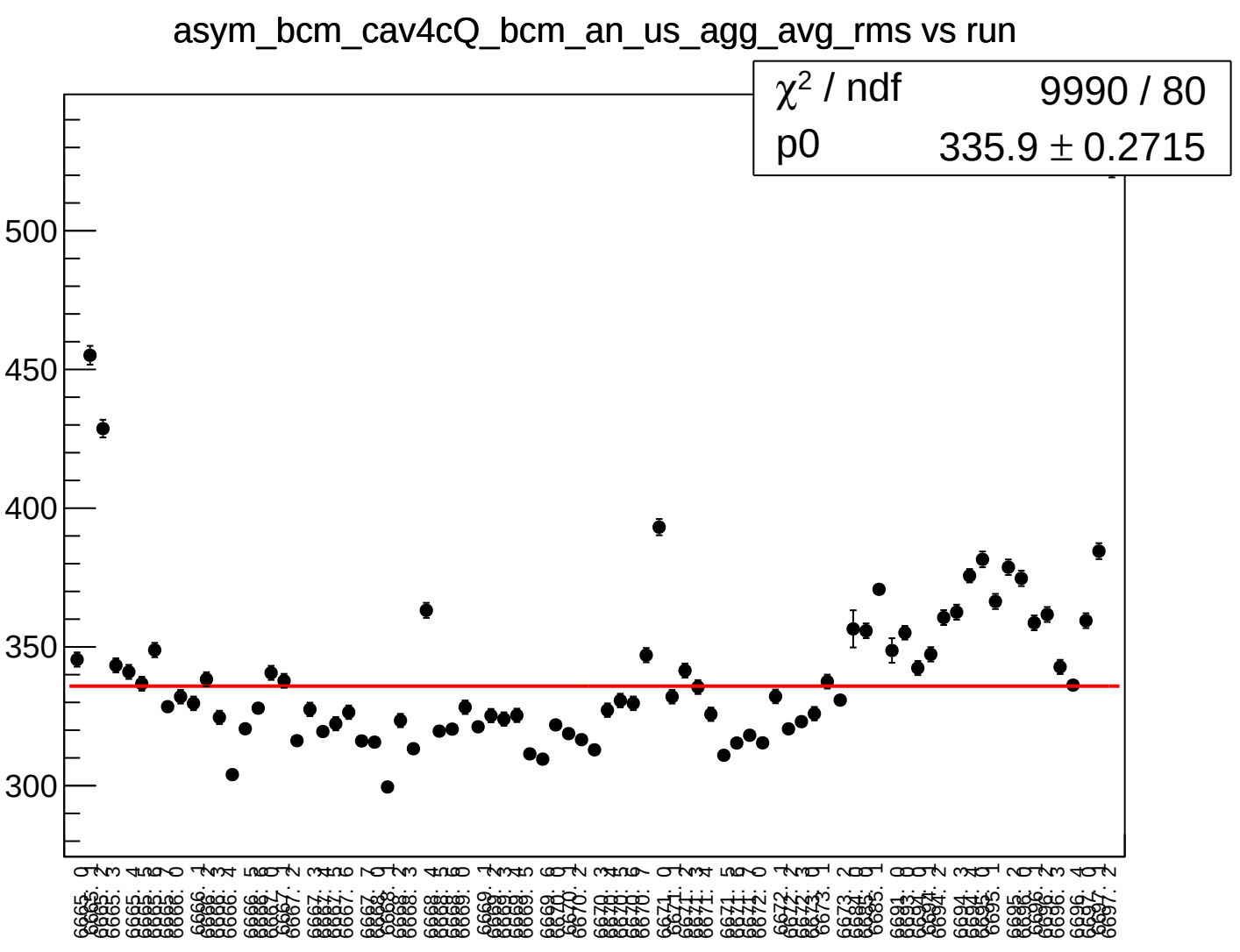

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 98.43 / 80
p0 0.005294 ± 30.85
1000
500
0
−500
−1000
pull
Entries 81
Mean 243.7
Std Dev 205
3
2
1
0
−1
−2
−3

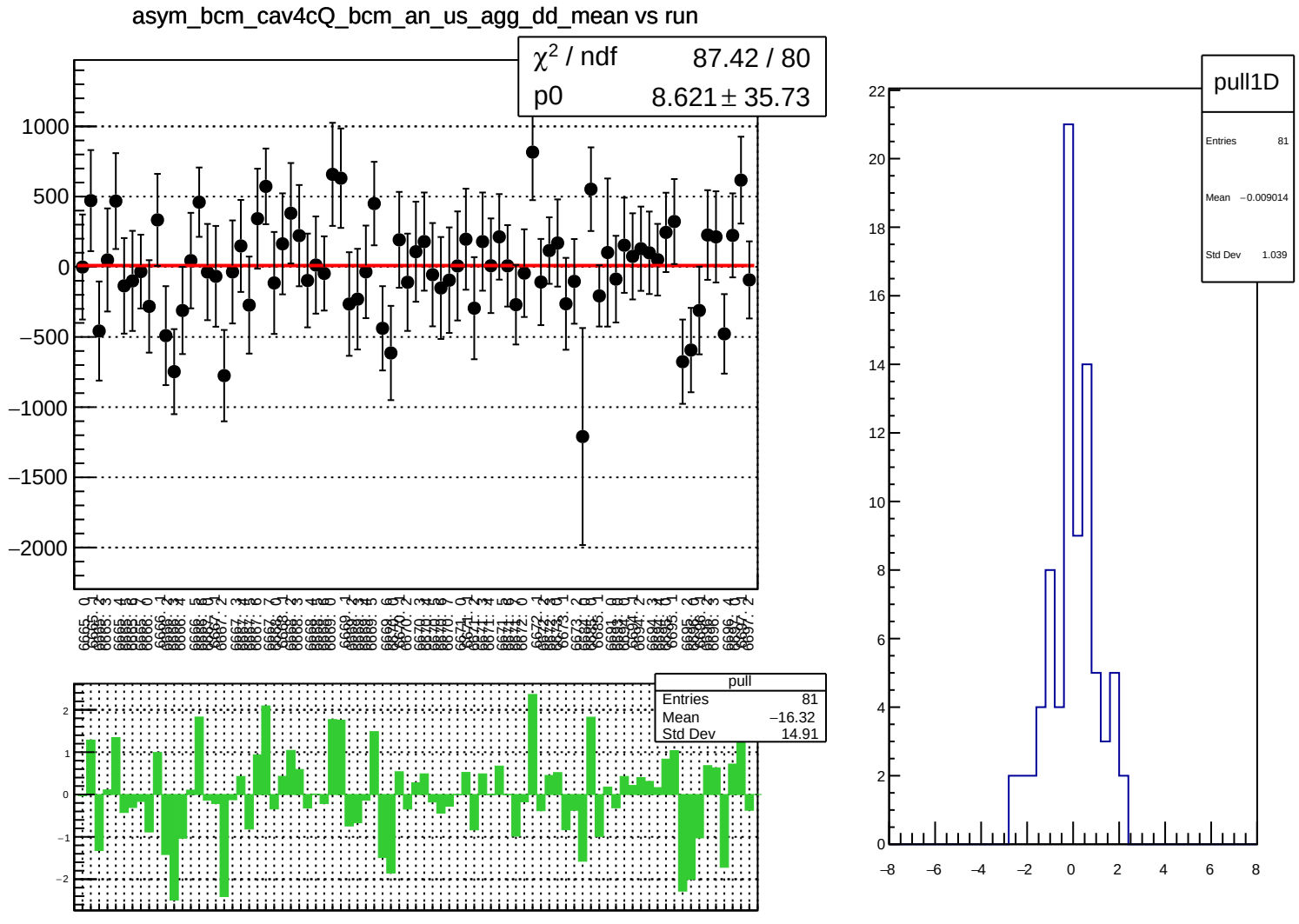

pull1D
Entries 81
Mean 0.01513
Std Dev 1.102
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

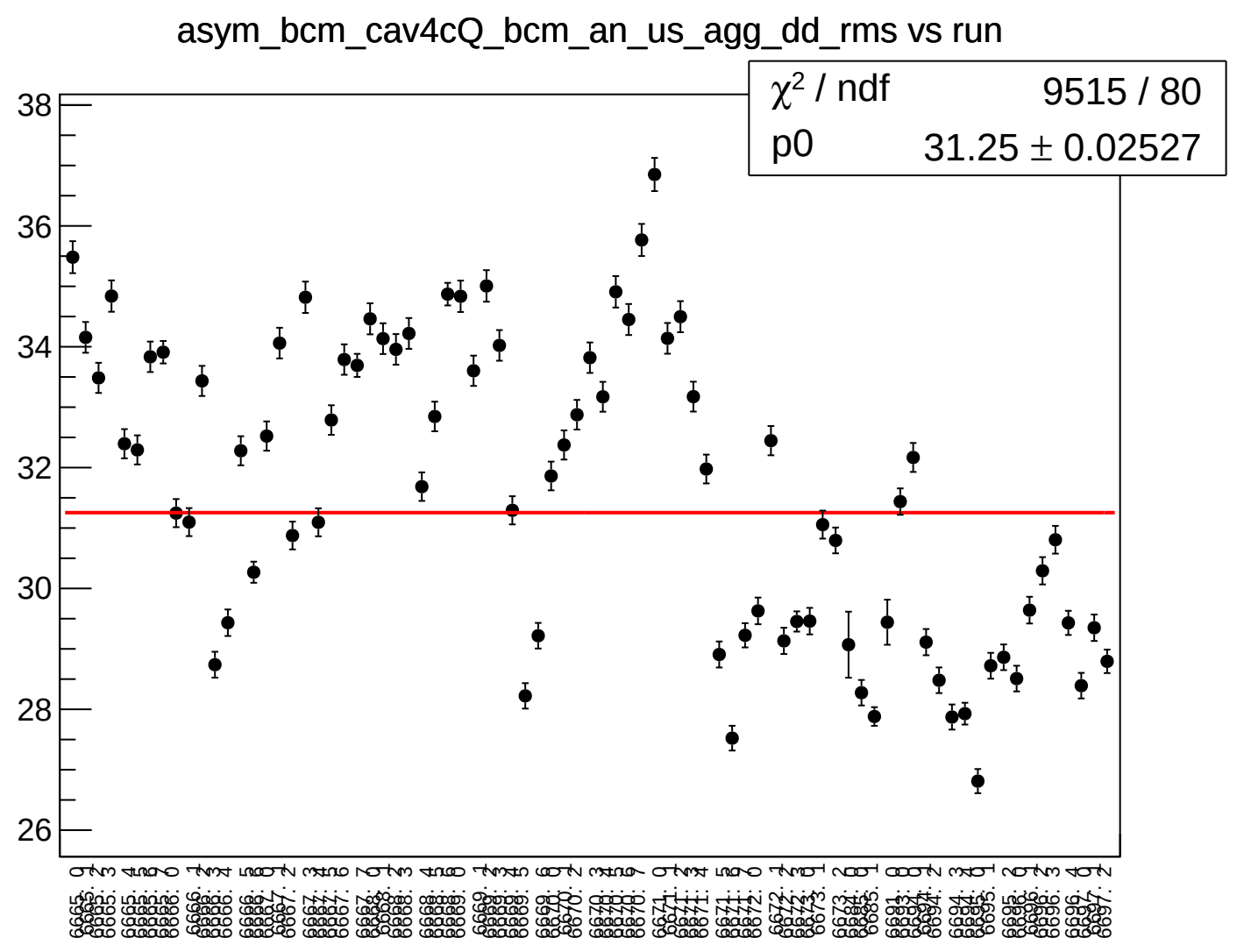

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3099 / 80
p0 27.04 ± 0.02181
30
29
28
27
26
25
24
23

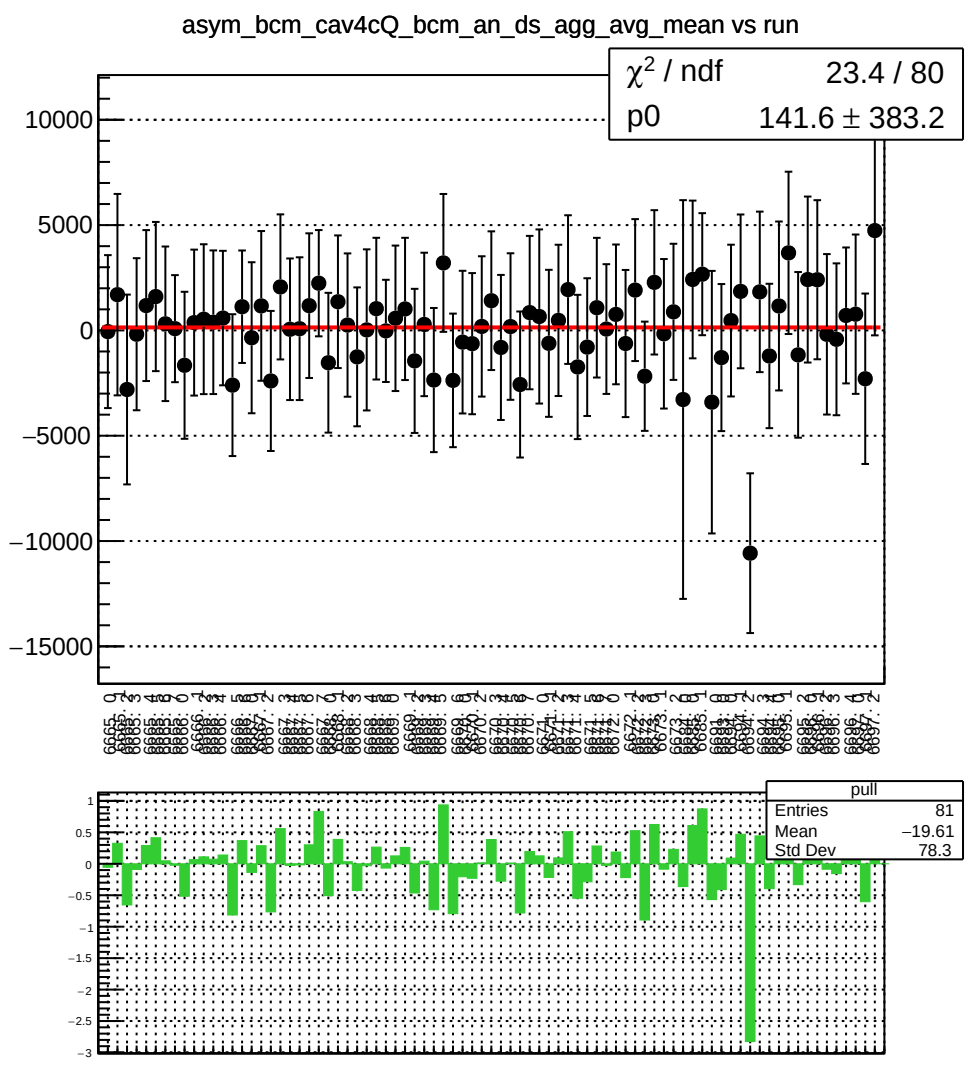

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 22.8 / 80
p0 138.2 ± 384
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −33.02
Std Dev 88.35
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

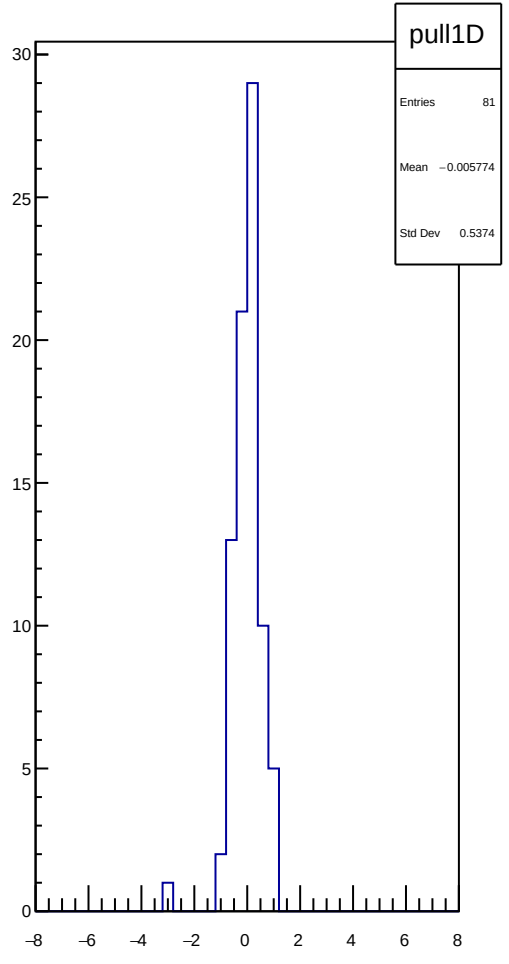

pull1D
Entries 81
Mean −0.005919
Std Dev 0.5305
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

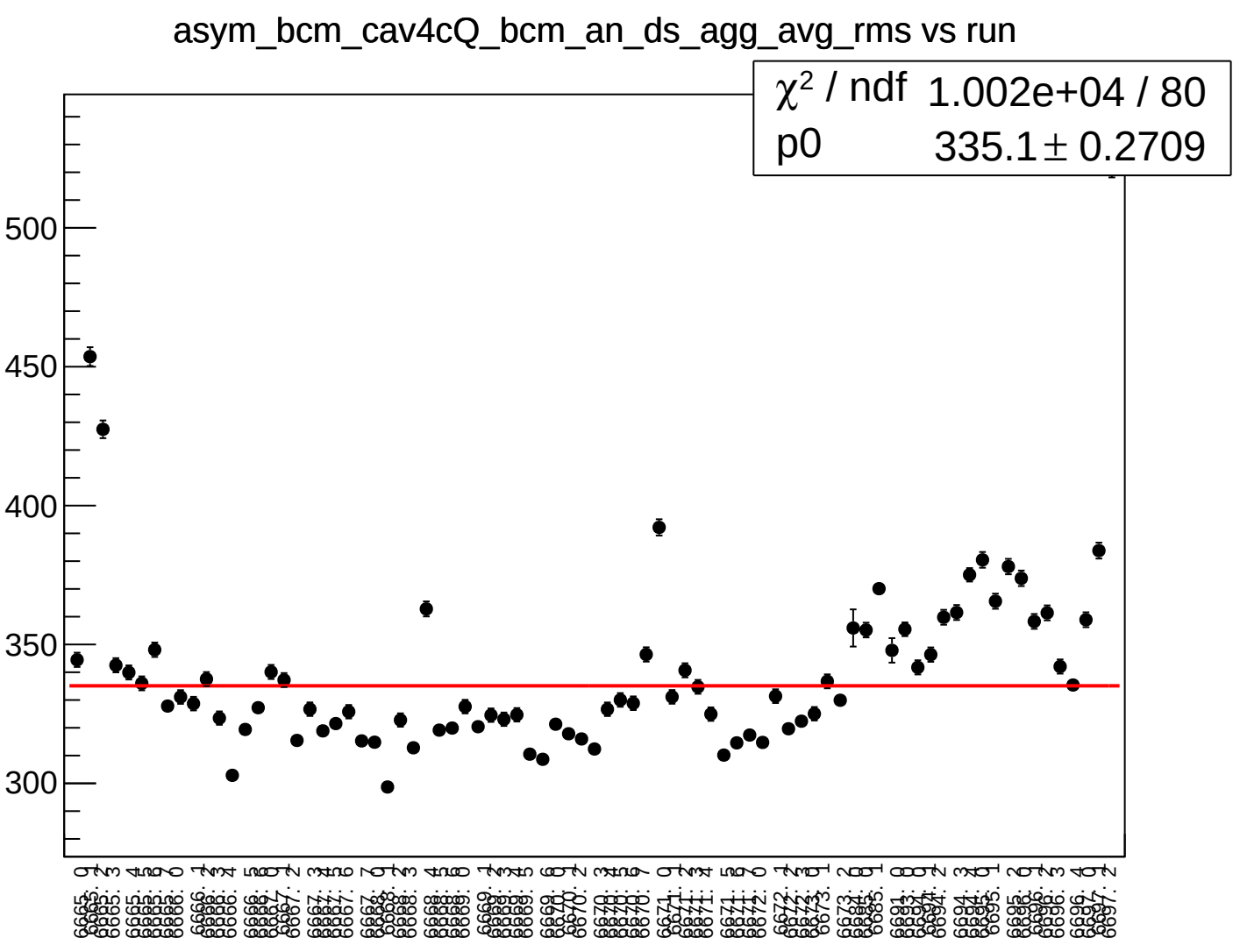

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9990 / 80
p0 335.9 ± 0.2715
500
450
400
350
300

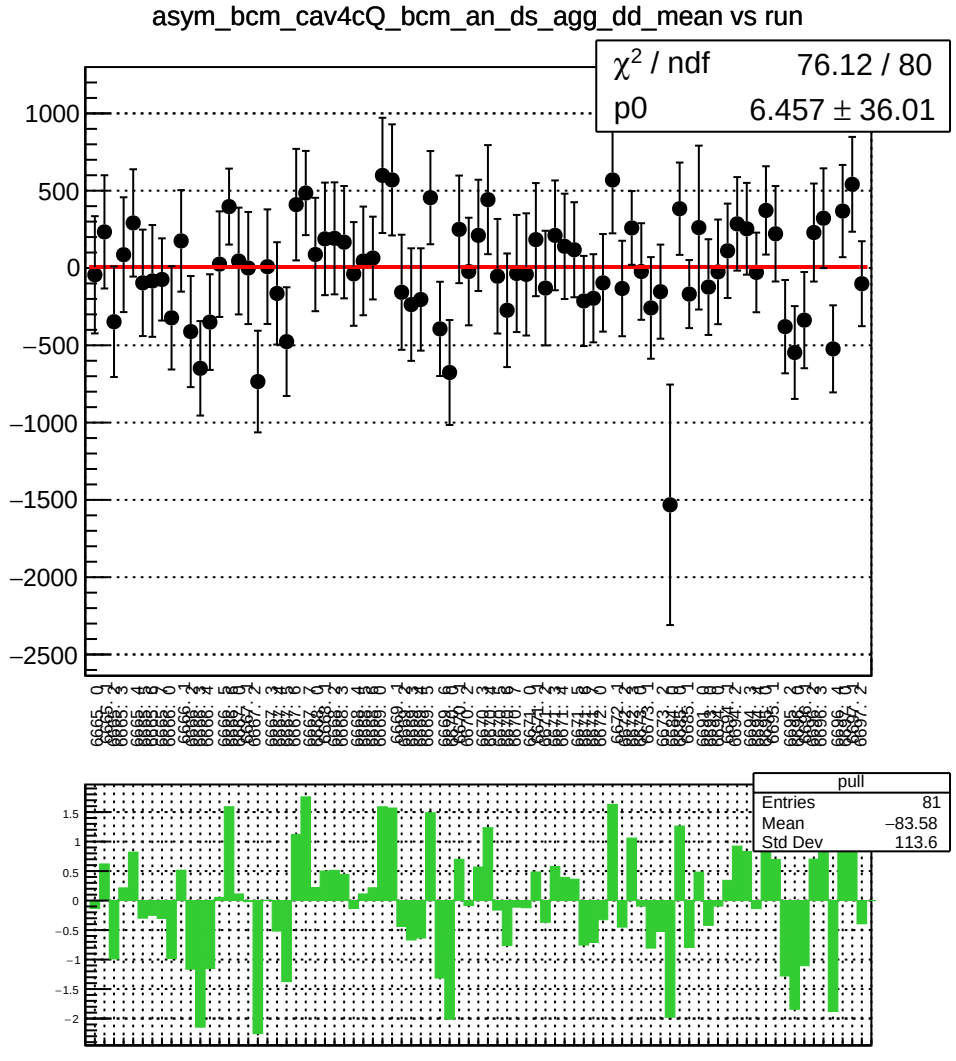

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 87.42 / 80
p0 8.621 ± 35.73
pull
Entries 81
Mean −16.32
Std Dev 14.91
pull1D
Entries 81
Mean −0.009014
Std Dev 1.039

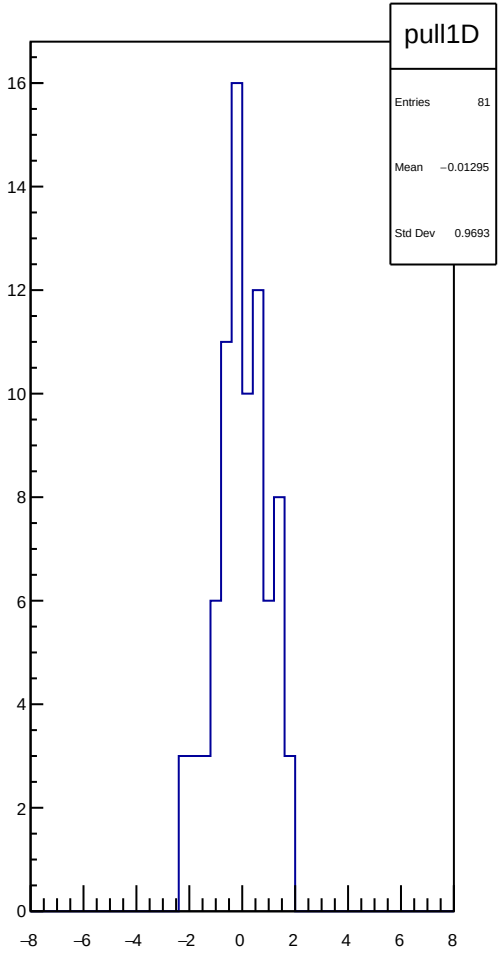

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 9515 / 80
p0 31.25 ± 0.02527
38
36
34
32
30
28
26

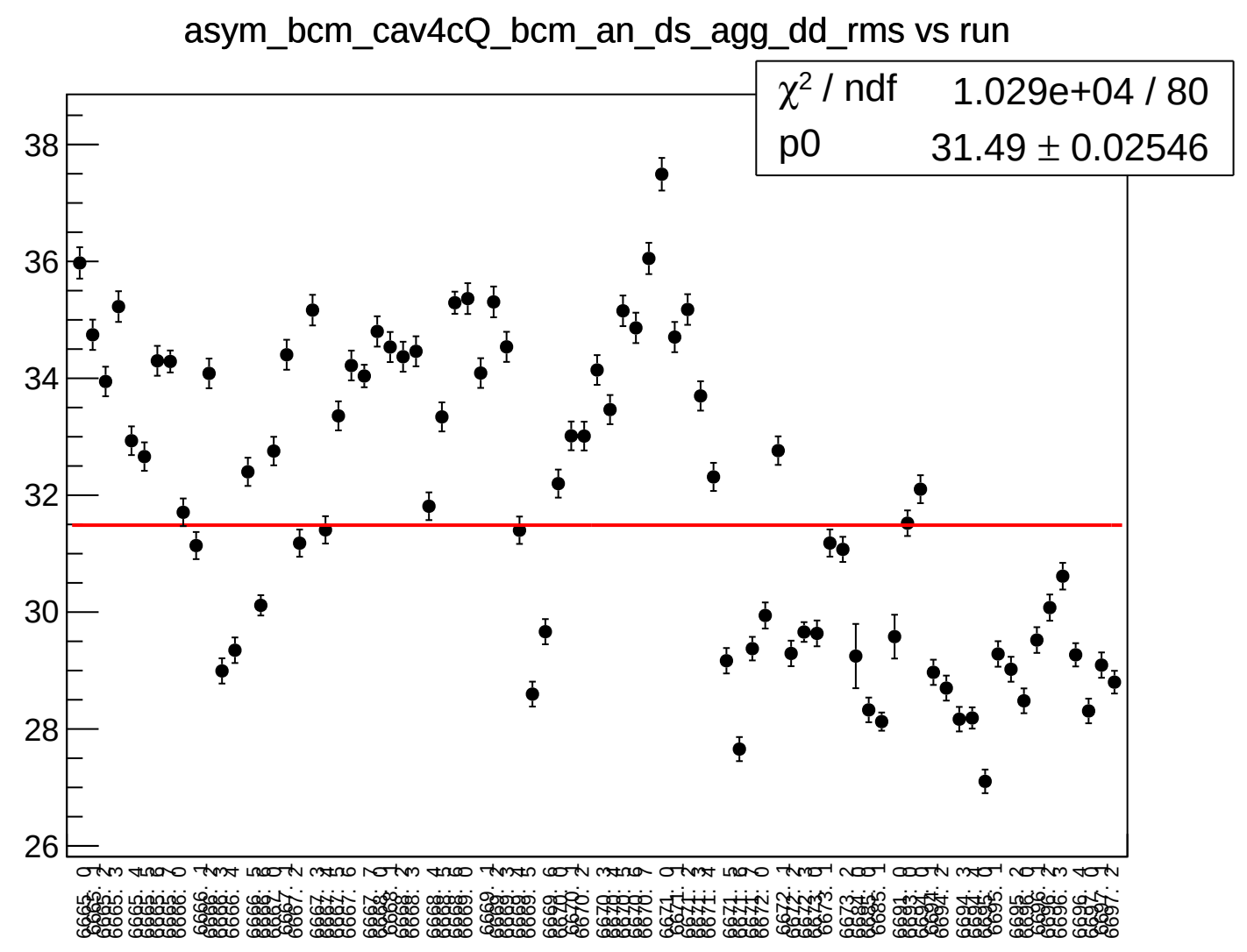

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.4 / 80
p0 141.6 ± 383.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −19.61
Std Dev 78.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

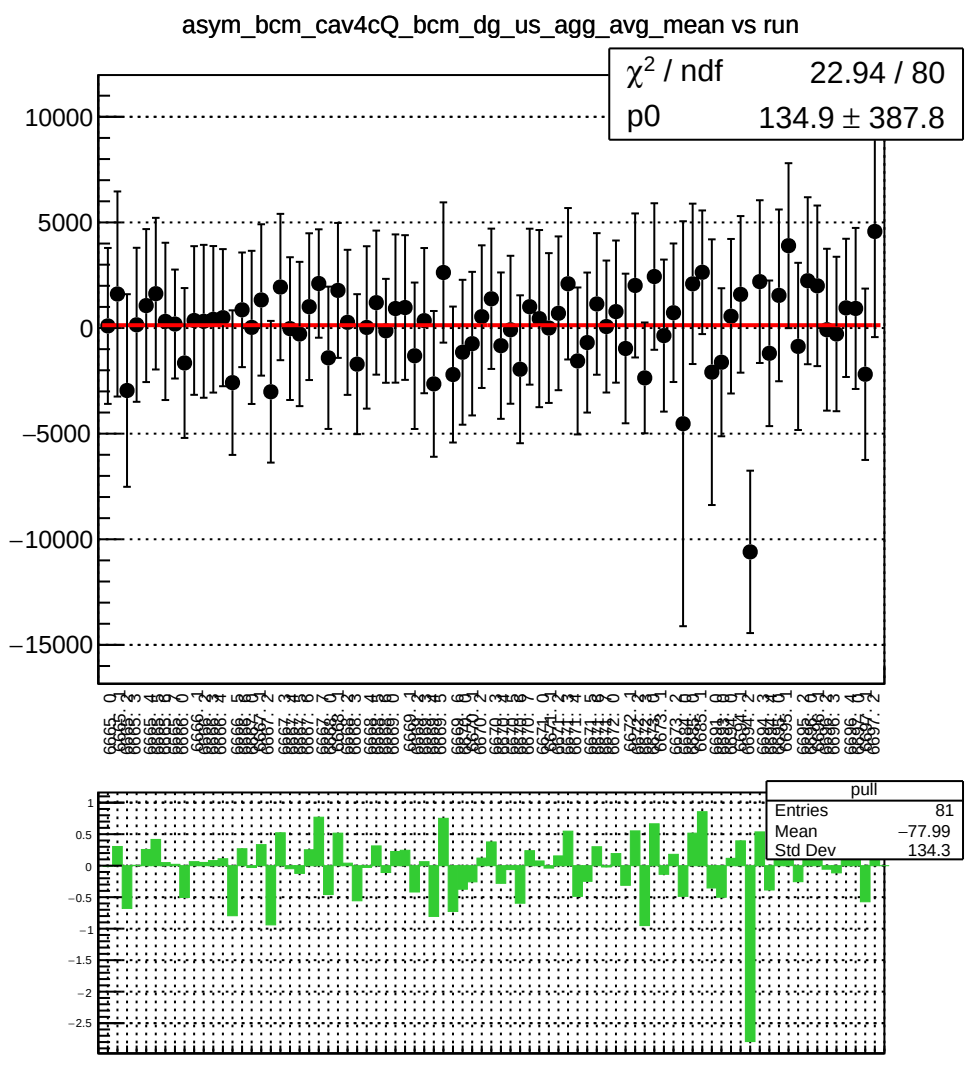

pull1D
Entries 81
Mean −0.005774
Std Dev 0.5374
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

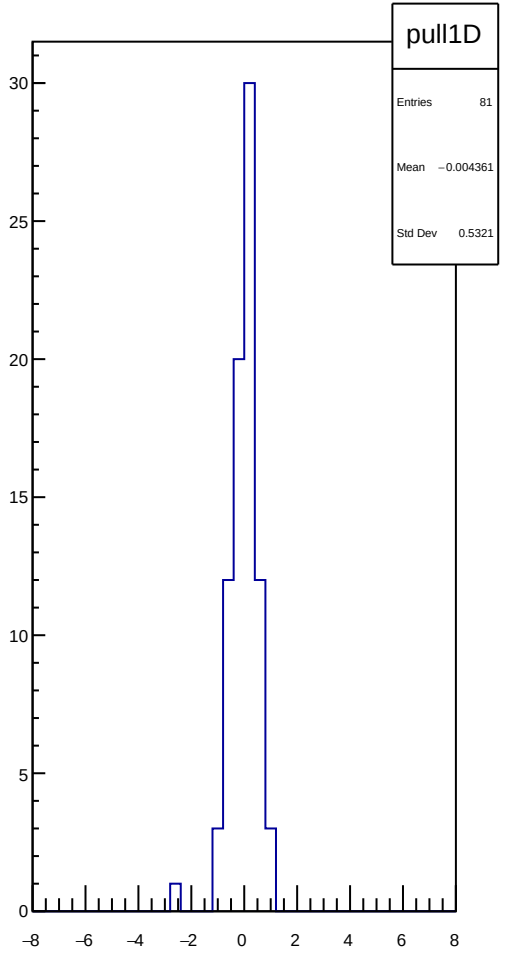

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.002e+04 / 80
p0 335.1 ± 0.2709
500
450
400
350
300

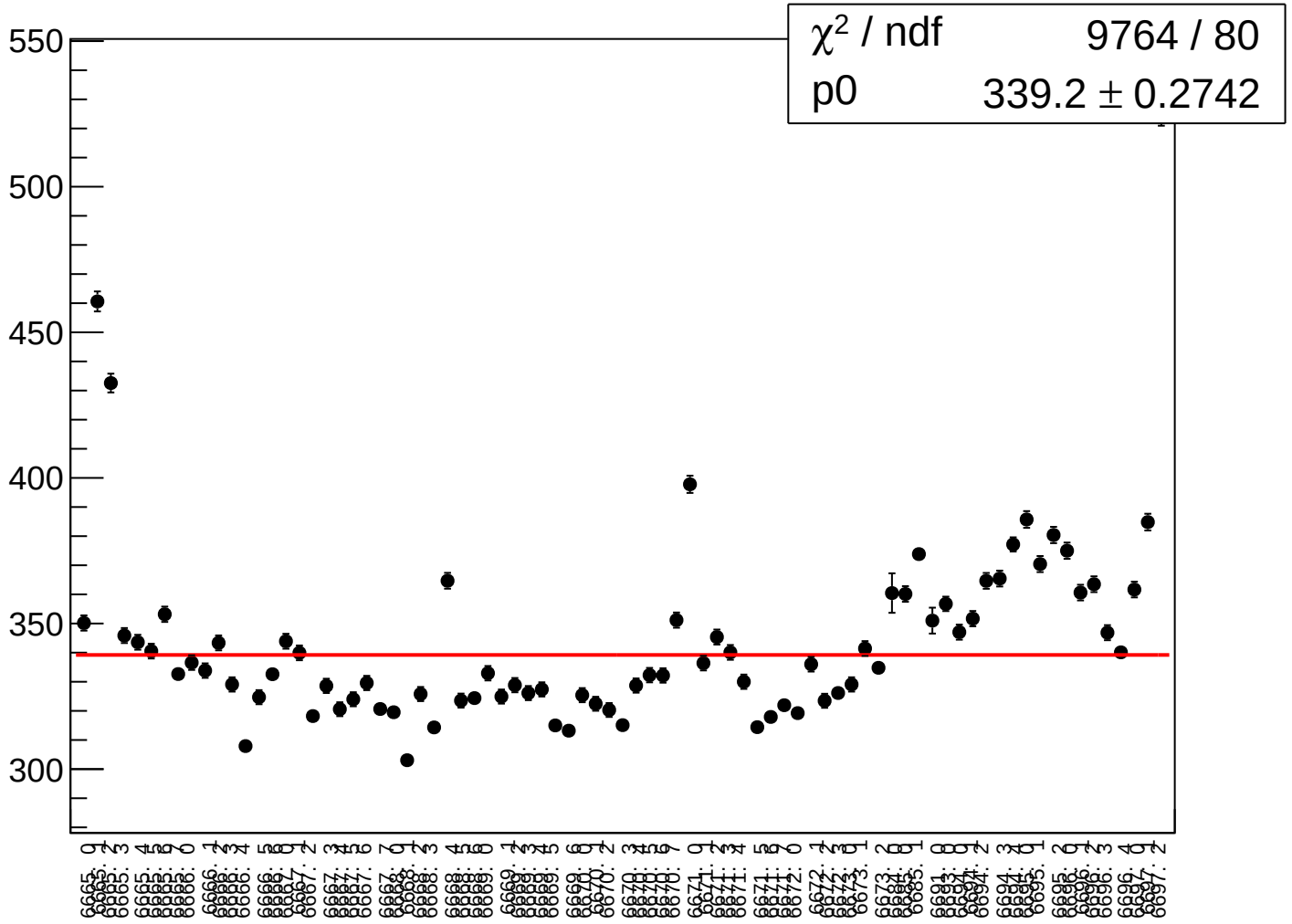

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.12 / 80
p0 6.457 ± 36.01
pull
Entries 81
Mean −83.58
Std Dev 113.6

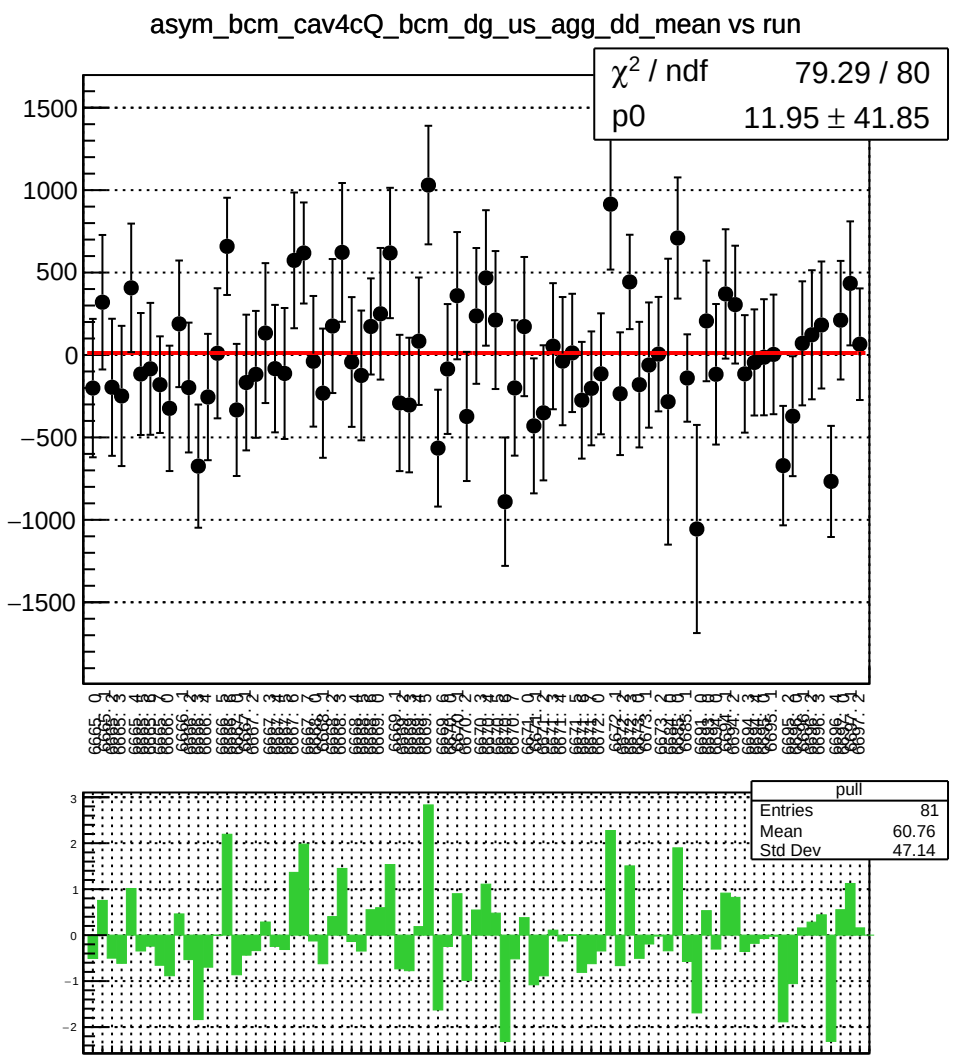

pull1D
Entries 81
Mean −0.01295
Std Dev 0.9693

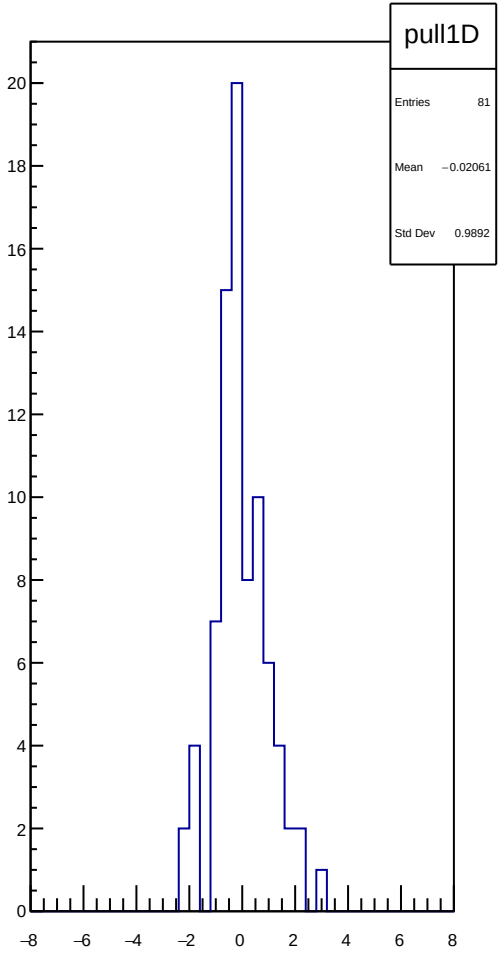

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.029e+04 / 80
p0 31.49 ± 0.02546
38
36
34
32
30
28
26

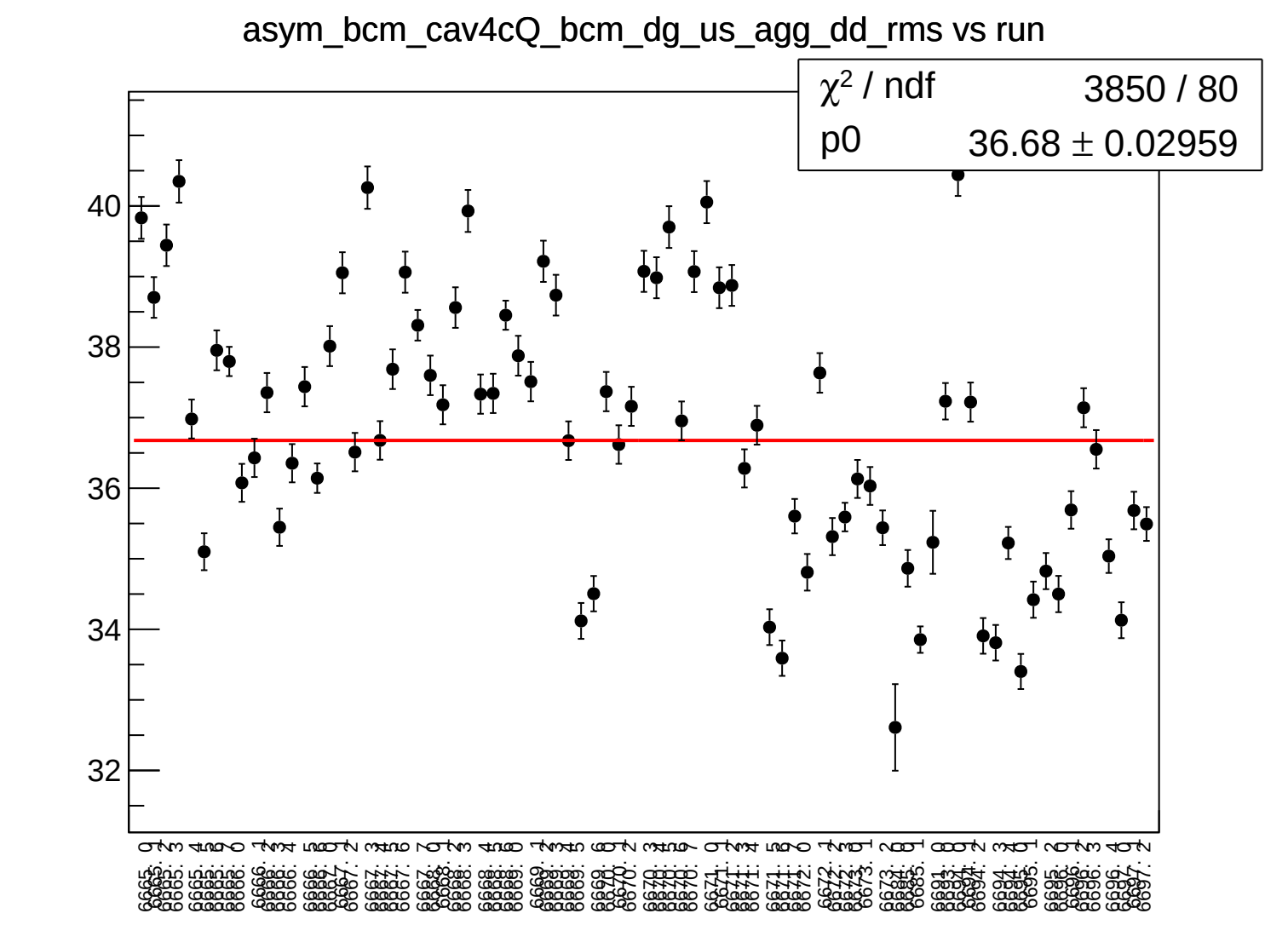

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 22.94 / 80
p0 134.9 ± 387.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −77.99
Std Dev 134.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

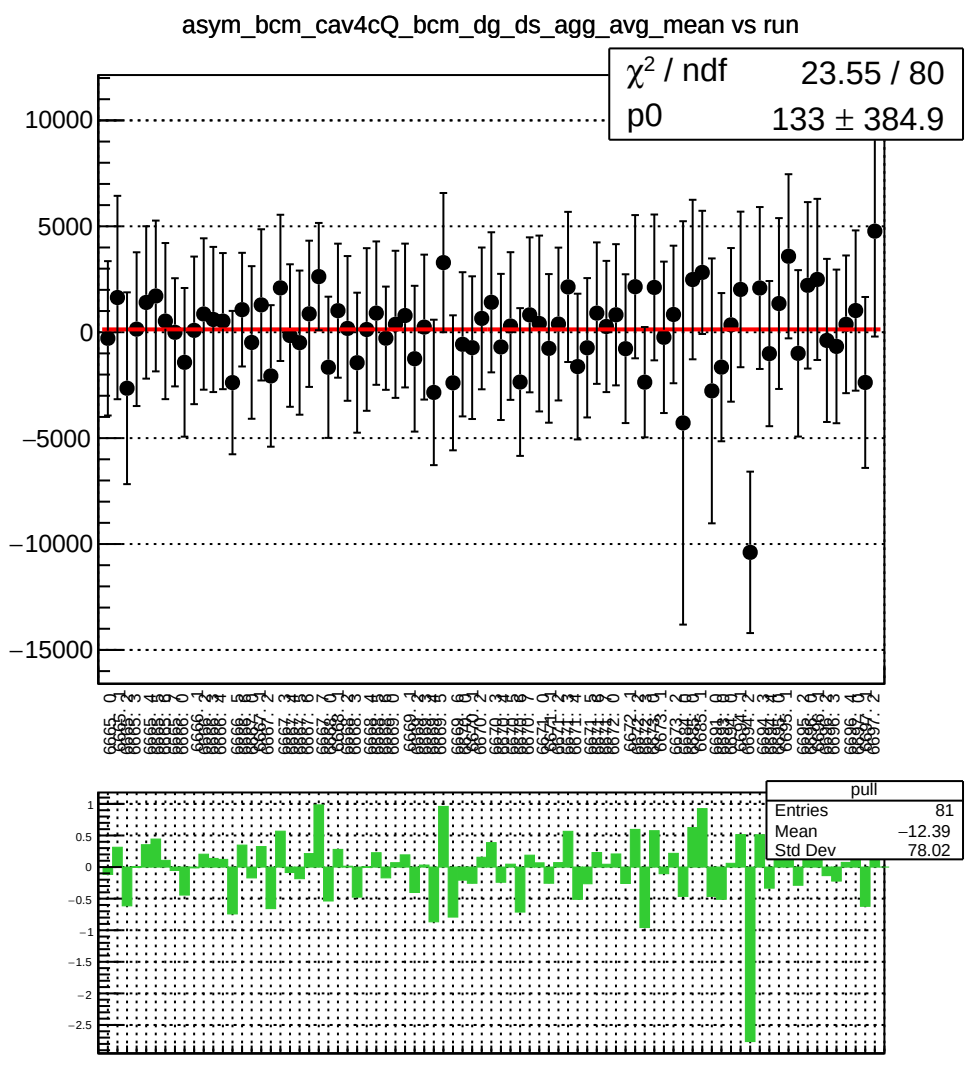

pull1D
Entries 81
Mean −0.004361
Std Dev 0.5321
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

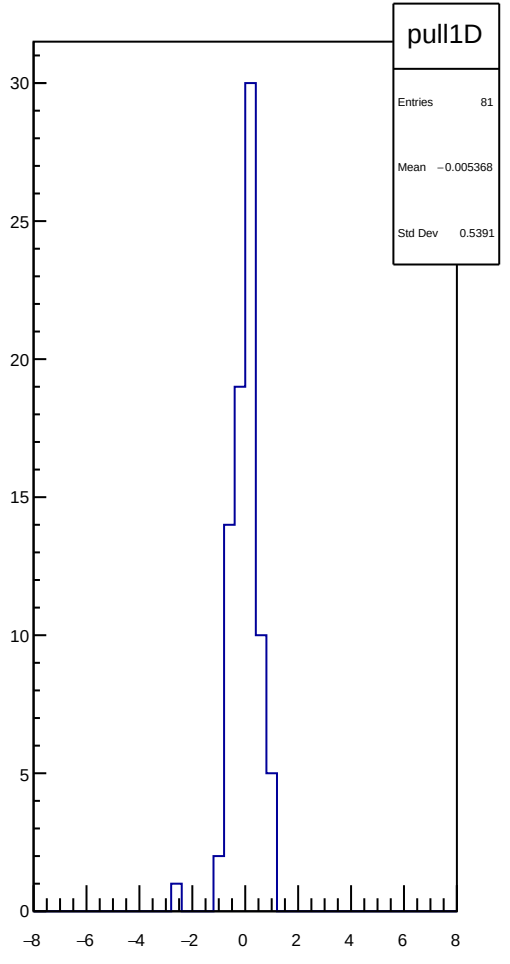

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9764 / 80
p0 339.2 ± 0.2742
550
500
450
400
350
300

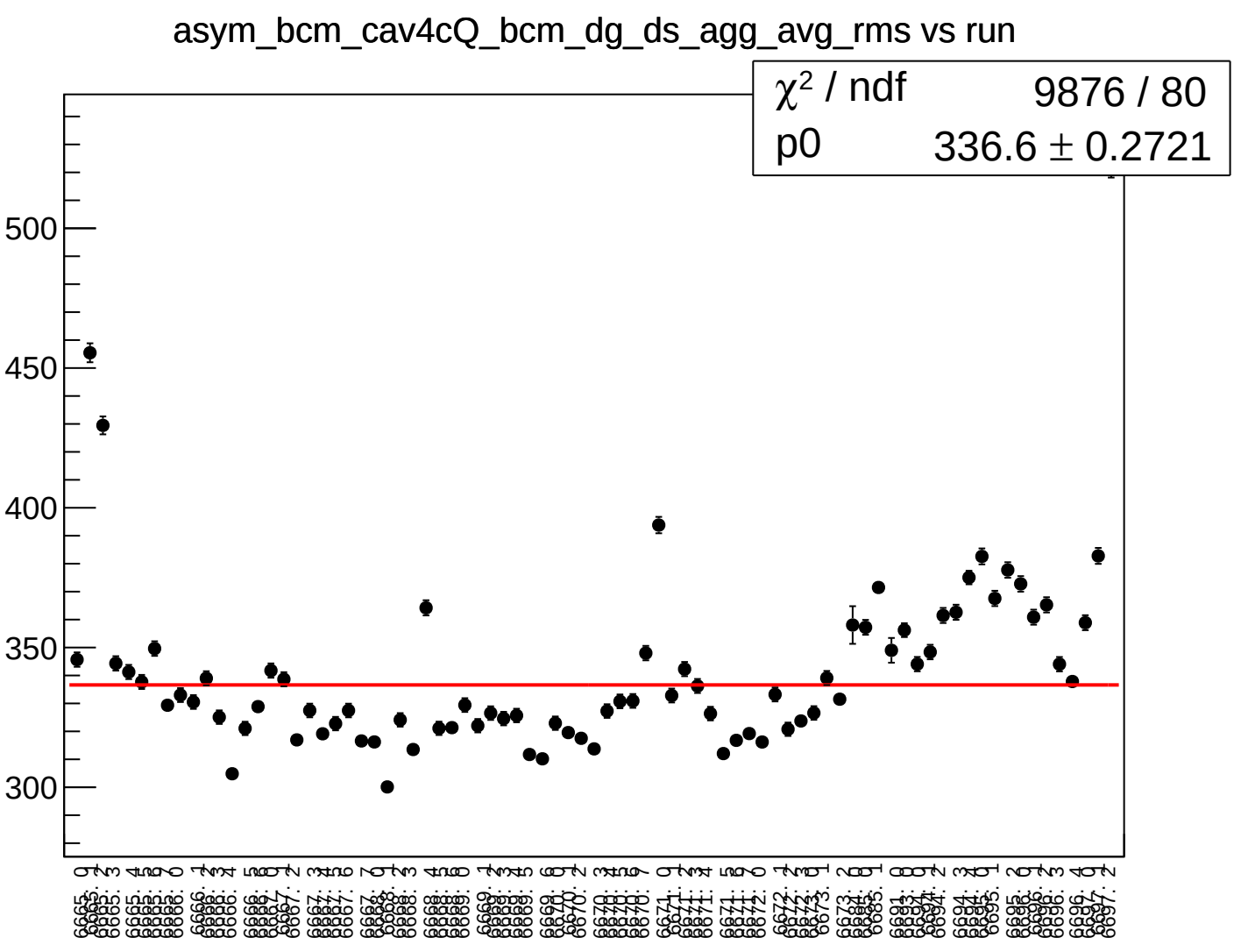

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 79.29 / 80
p0 11.95 ± 41.85
pull
Entries 81
Mean 60.76
Std Dev 47.14

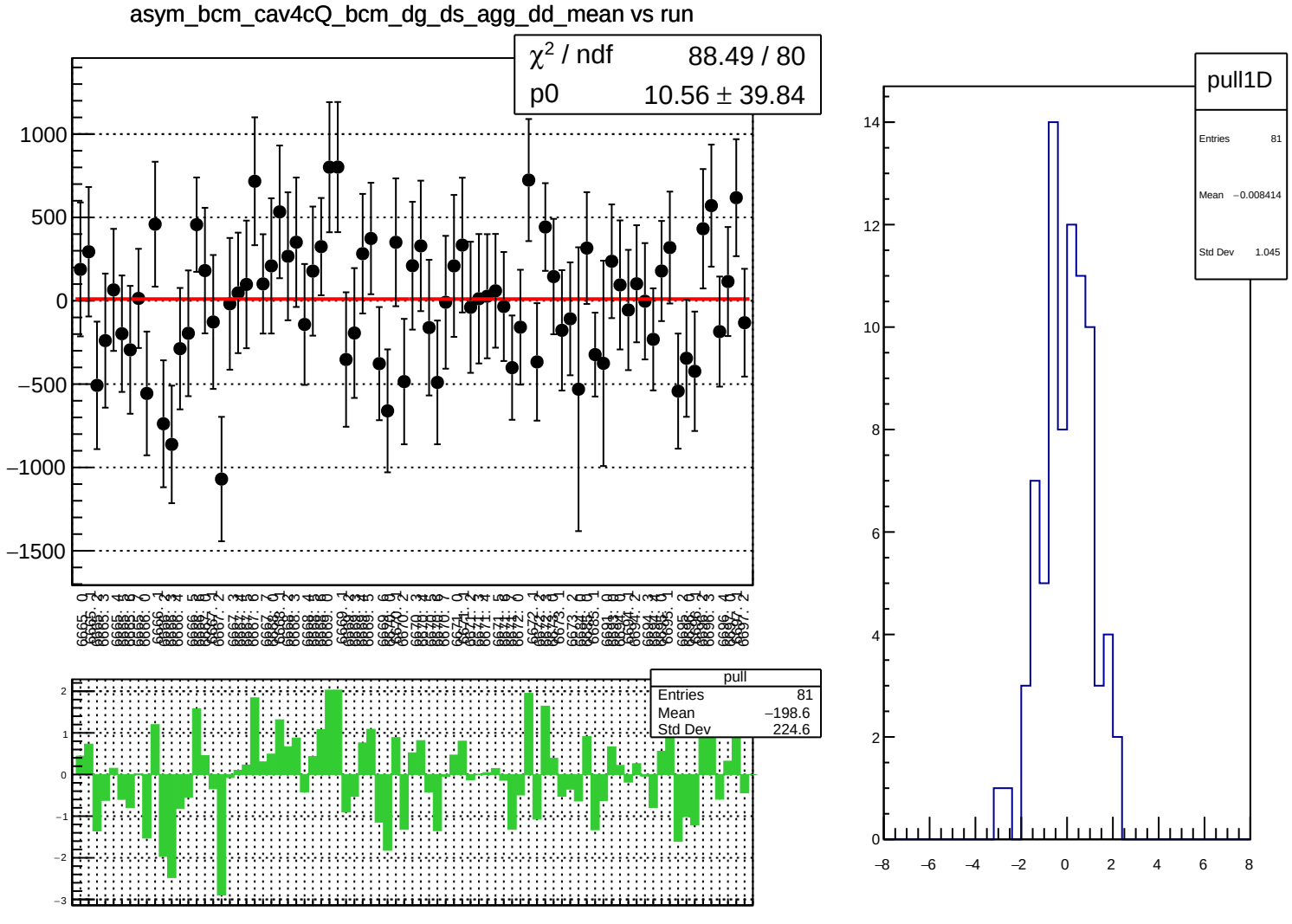

pull1D
Entries 81
Mean −0.02061
Std Dev 0.9892

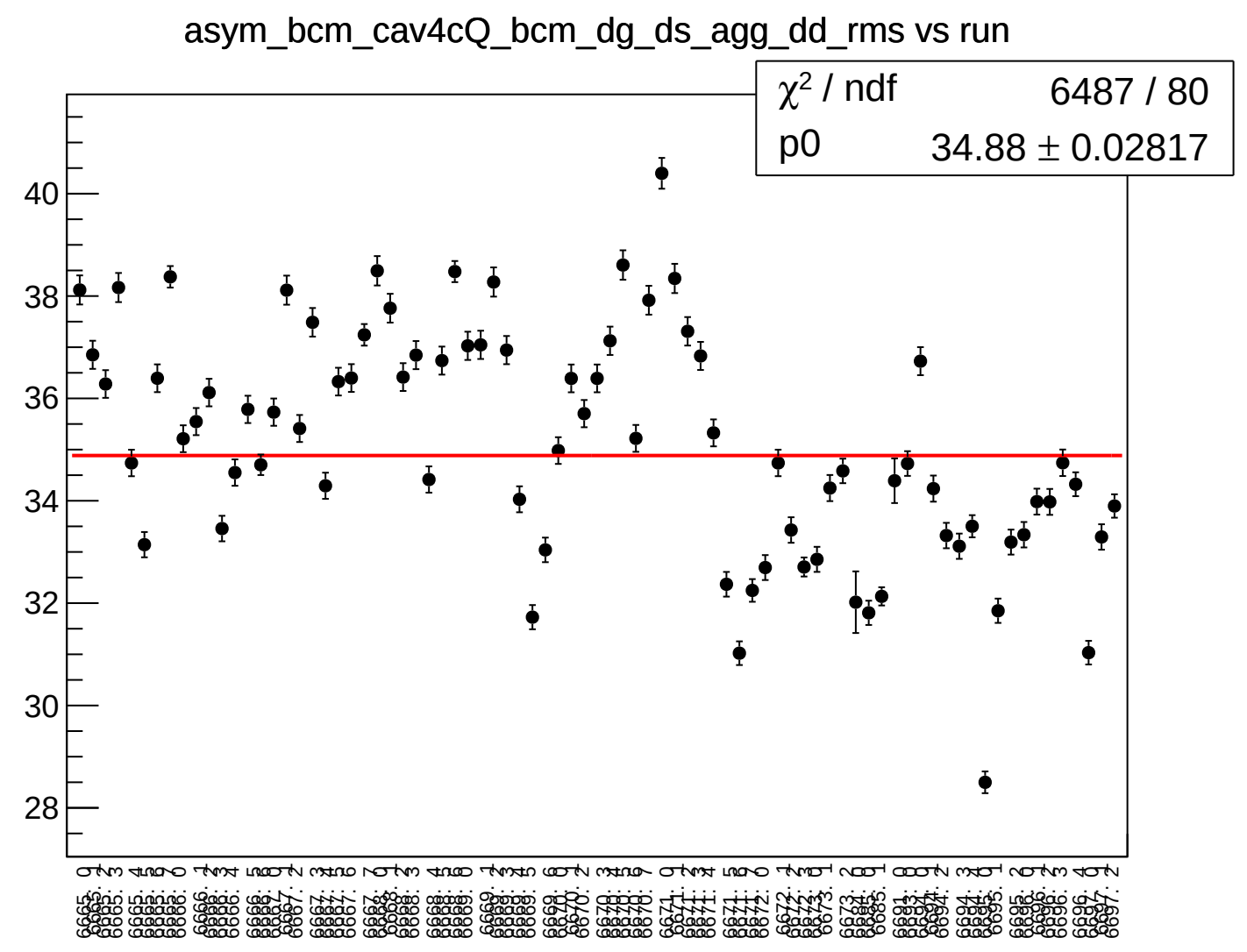

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3850 / 80
p0 36.68 ± 0.02959
40
38
36
34
32

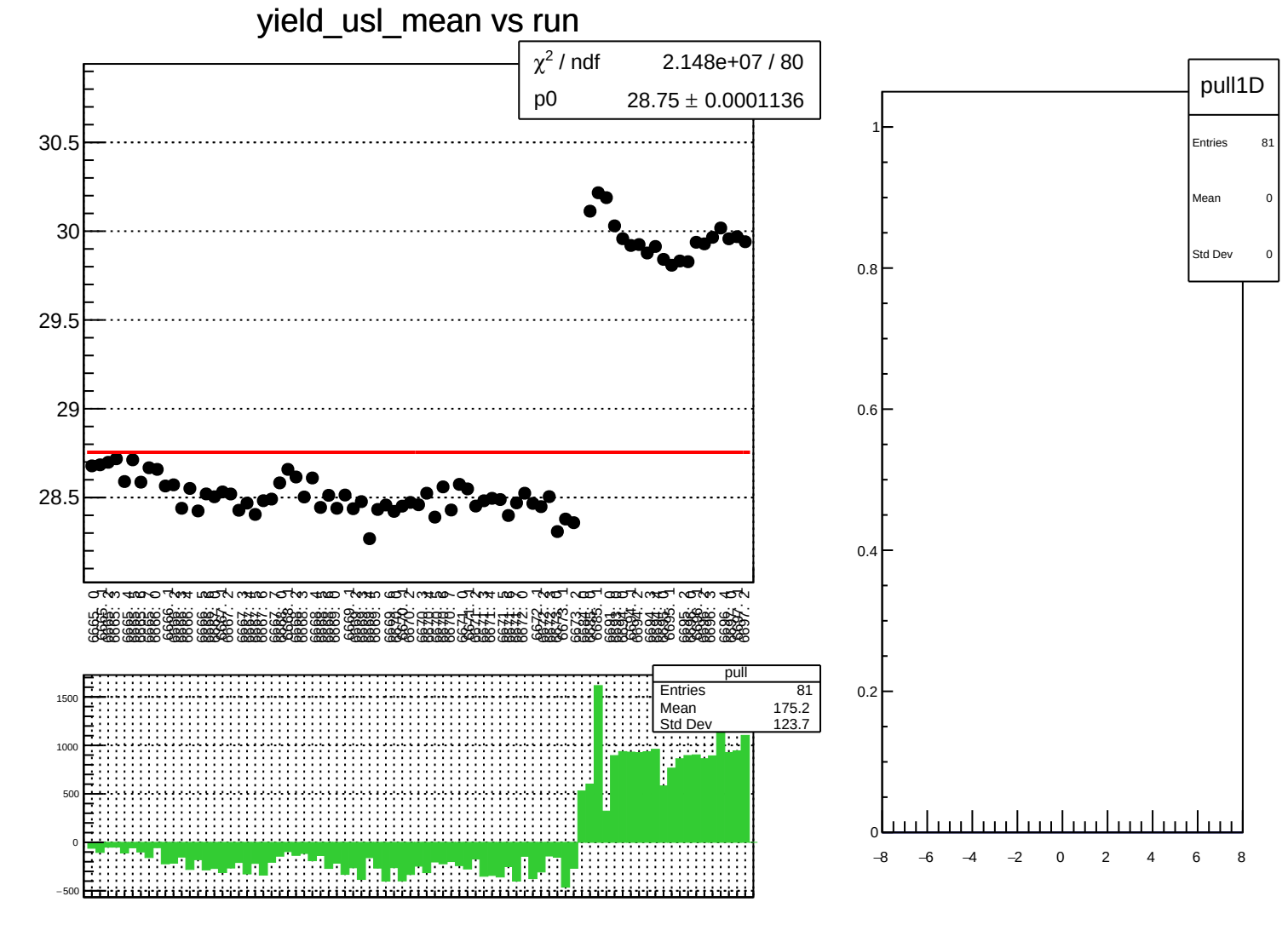

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.55 / 80
p0 133 ± 384.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −12.39
Std Dev 78.02
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

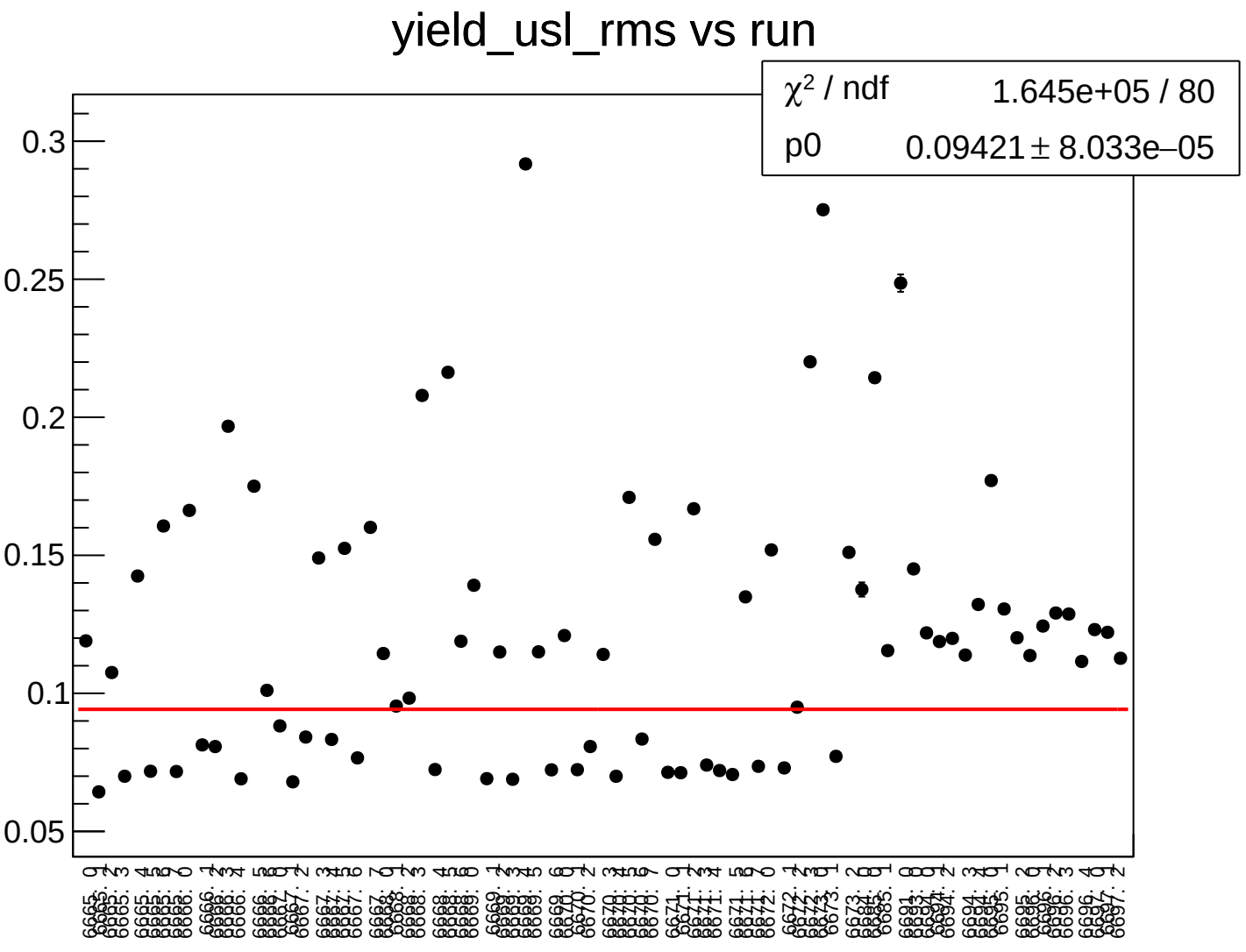

pull1D
Entries 81
Mean −0.005368
Std Dev 0.5391
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

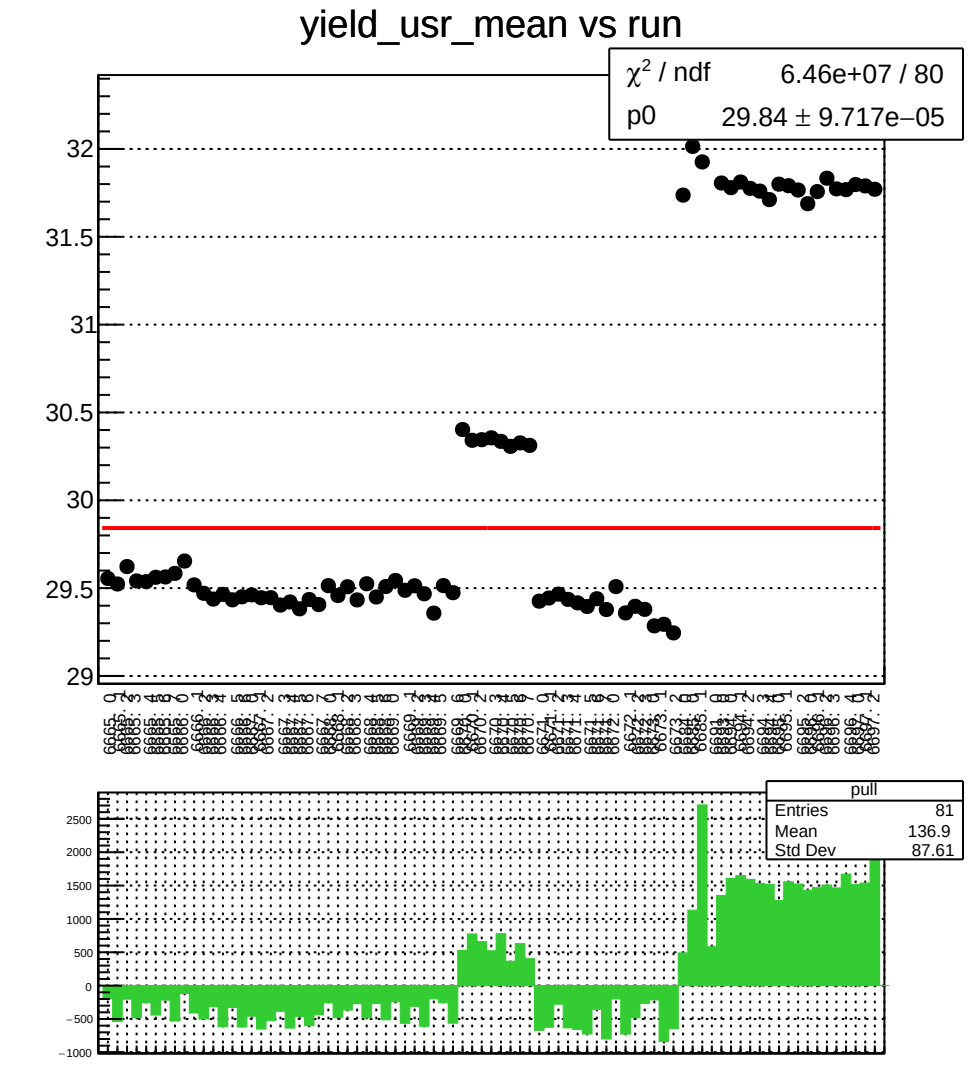

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9876 / 80
p0 336.6 ± 0.2721
500
450
400
350
300

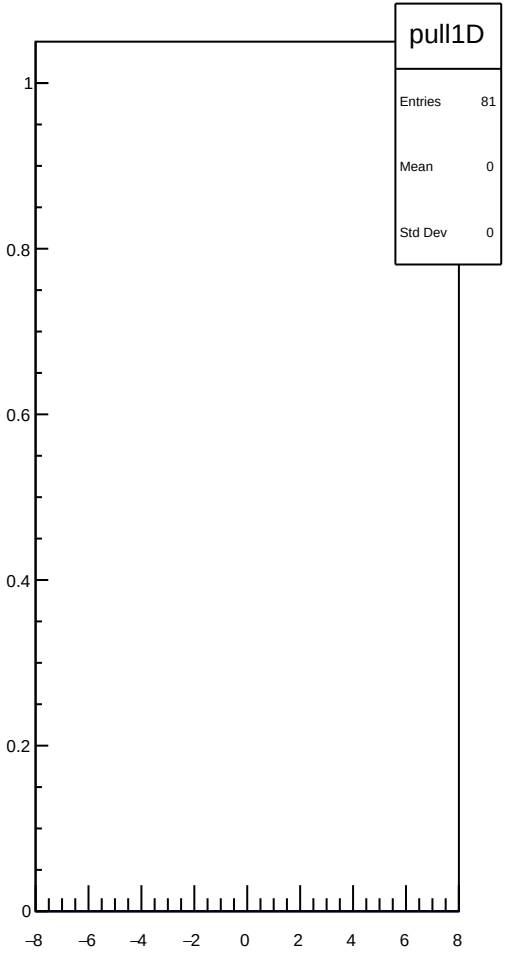

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 88.49 / 80
p0 10.56 ± 39.84
pull
Entries 81
Mean −198.6
Std Dev 224.6
pull1D
Entries 81
Mean −0.008414
Std Dev 1.045

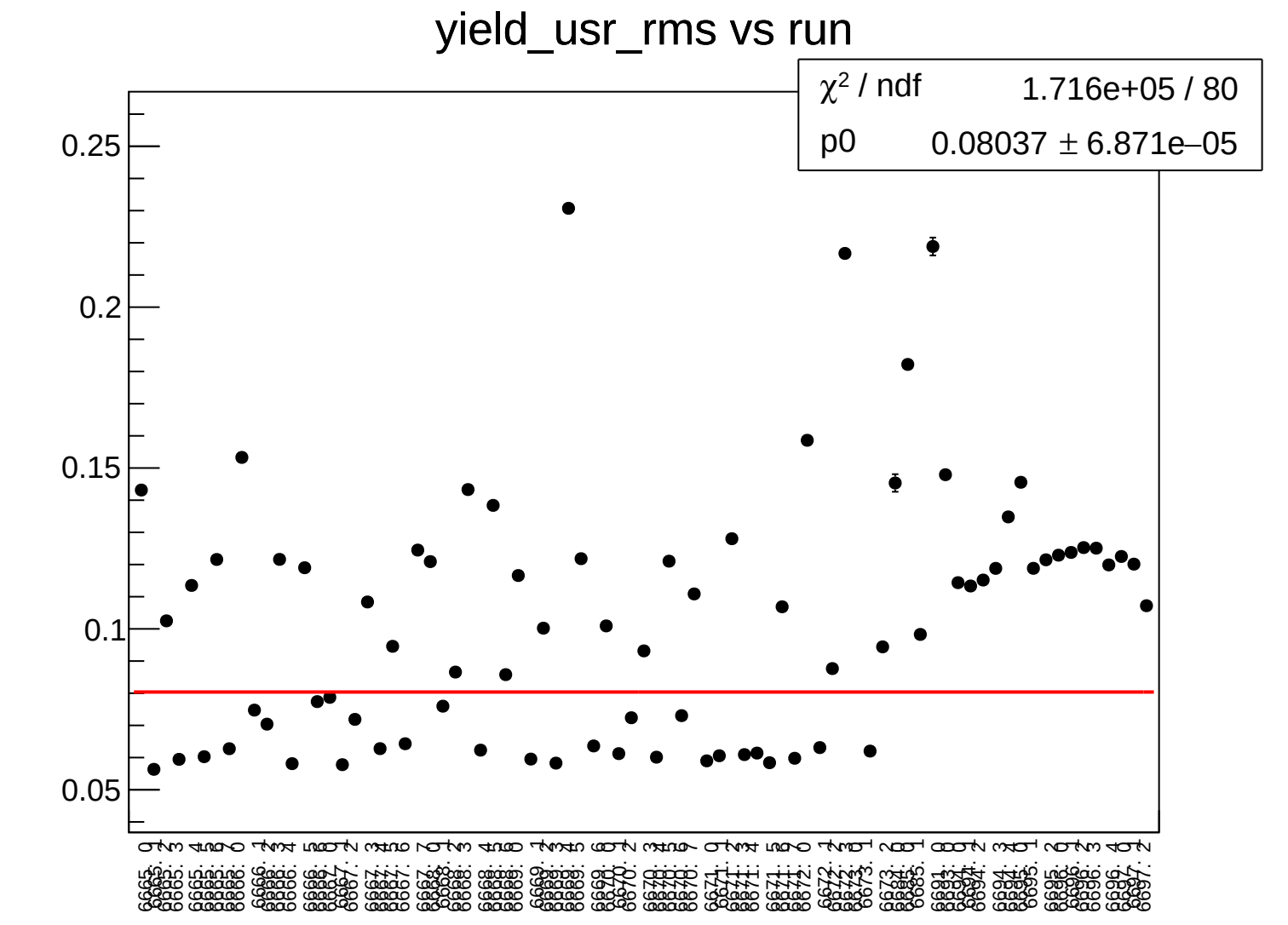

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6487 / 80
p0 34.88 ± 0.02817
40
38
36
34
32
30
28

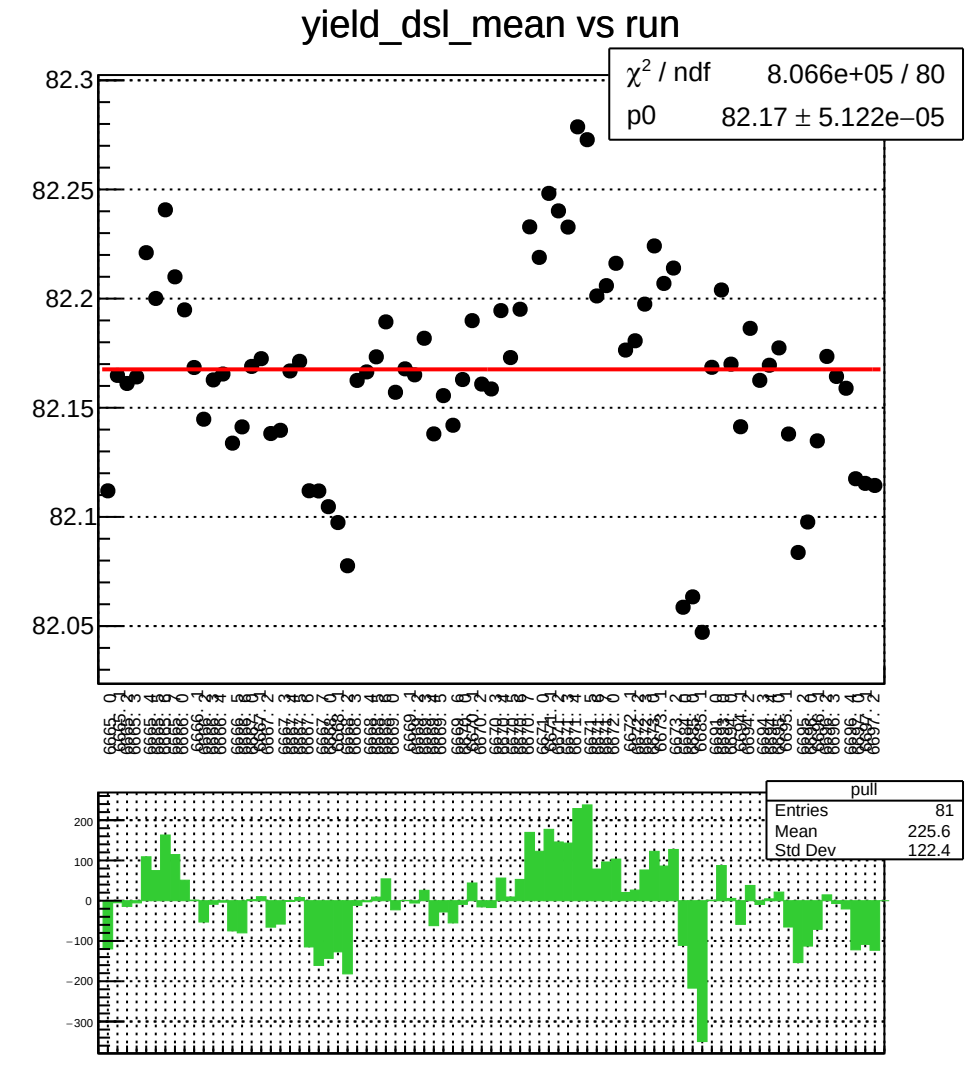

yield_usl_mean vs run
χ² / ndf 2.148e+07 / 80
p0 28.75 ± 0.0001136
30.5
30
29.5
29
28.5
pull
Entries 81
Mean 175.2
Std Dev 123.7
1500
1000
500
0
−500
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

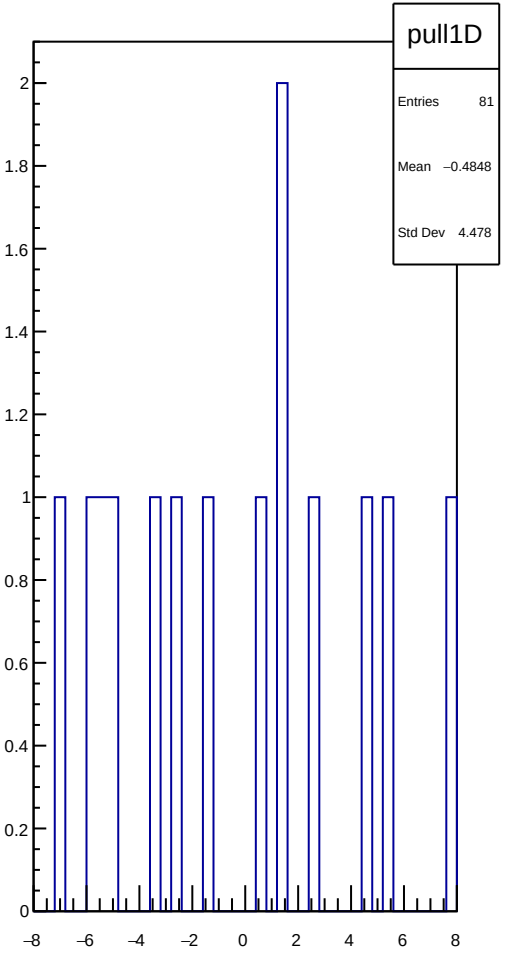

yield_usl_rms vs run
χ² / ndf 1.645e+05 / 80
p0 0.09421 ± 8.033e–05
0.3
0.25
0.2
0.15
0.1
0.05

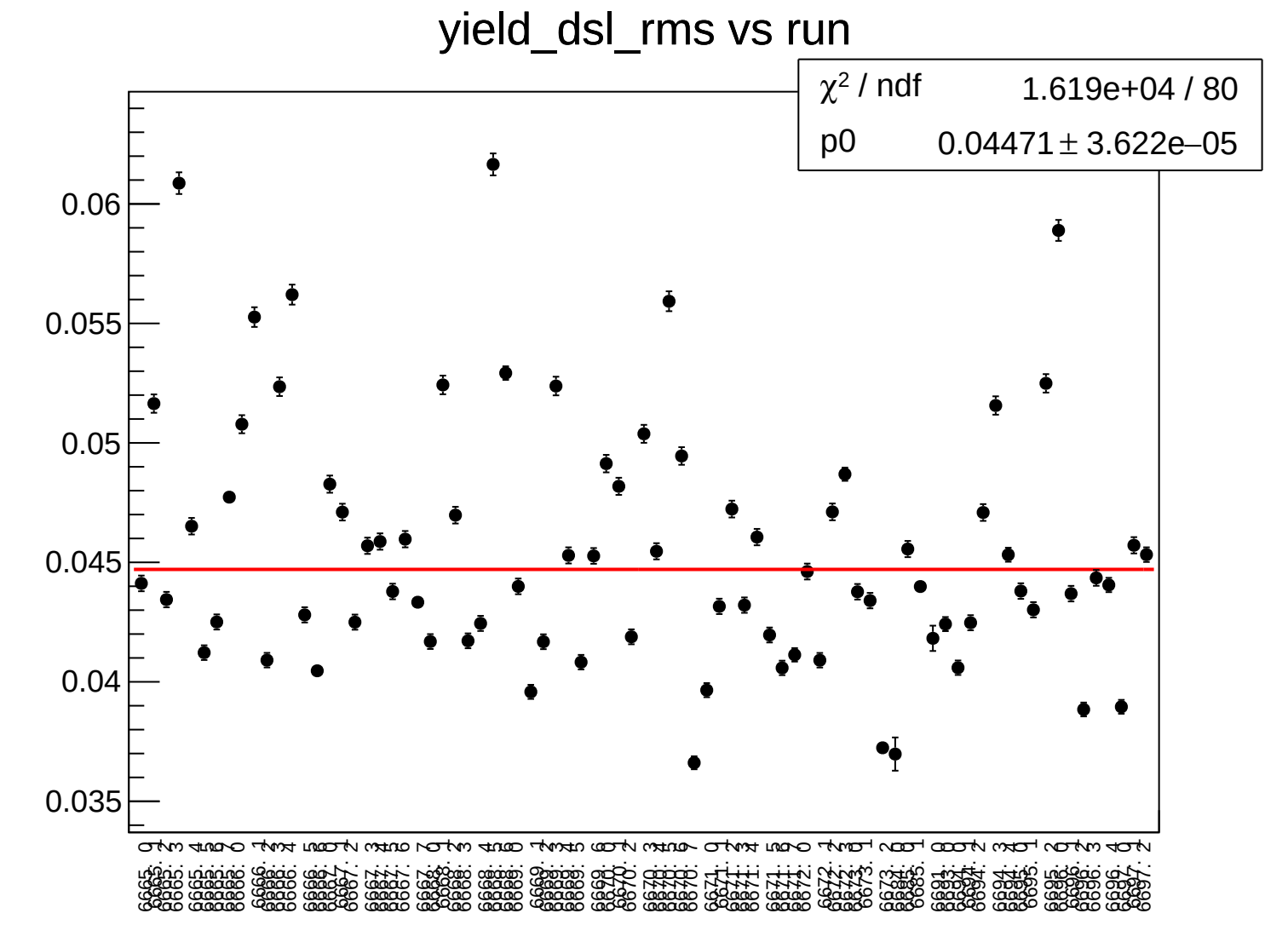

yield_usr_mean vs run
χ² / ndf 6.46e+07 / 80
p0 29.84 ± 9.717e−05
32
31.5
31
30.5
30
29.5
29
pull
Entries 81
Mean 136.9
Std Dev 87.61
2500
2000
1500
1000
500
0
−500
−1000

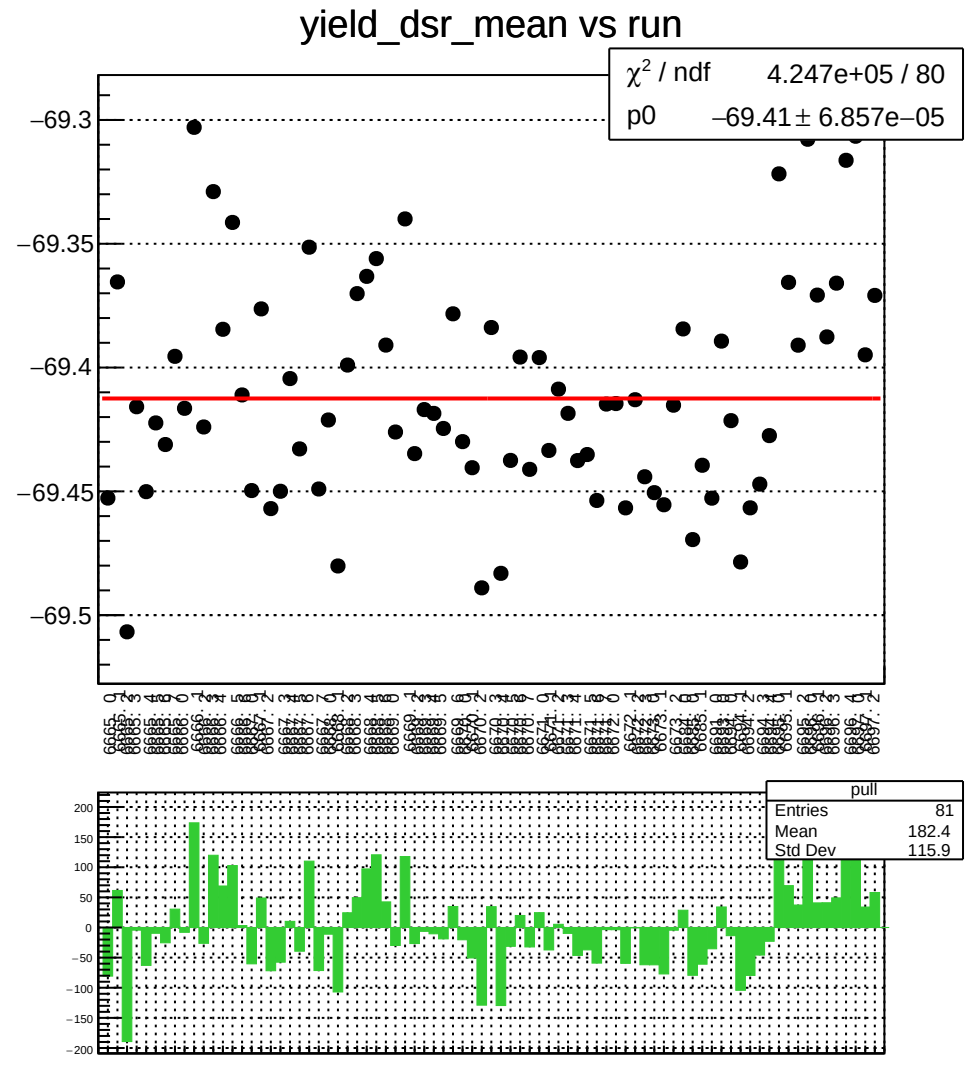

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

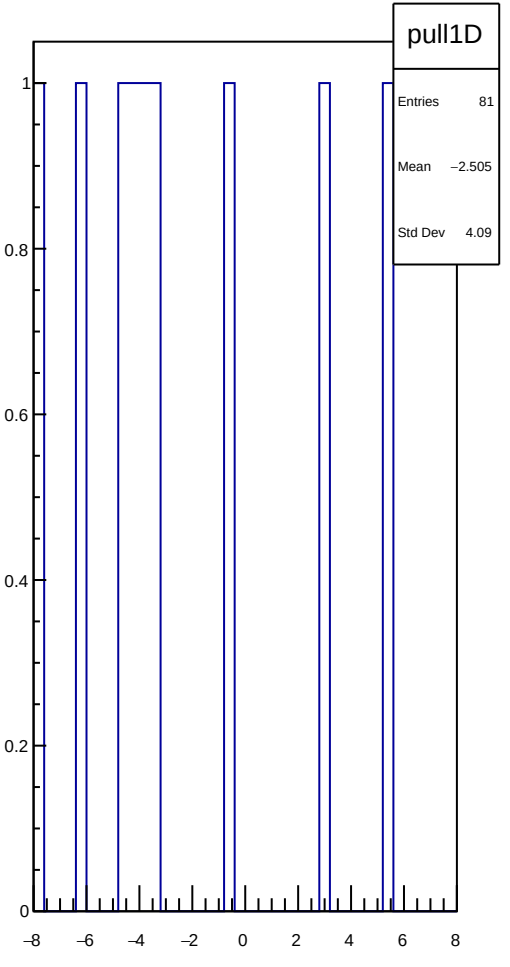

yield_usr_rms vs run
χ² / ndf 1.716e+05 / 80
p0 0.08037 ± 6.871e−05
0.25
0.2
0.15
0.1
0.05

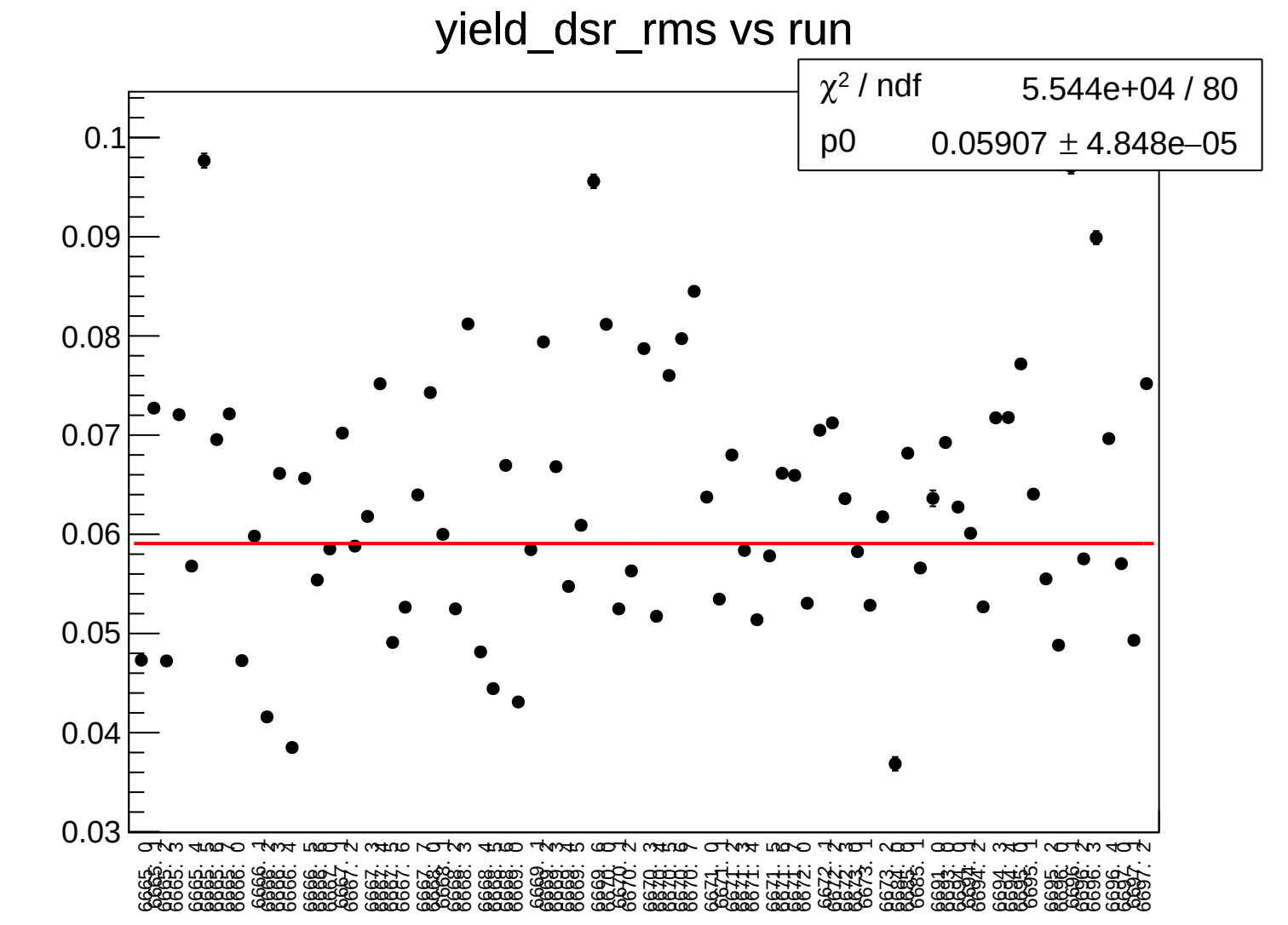

yield_dsl_mean vs run
χ² / ndf 8.066e+05 / 80
p0 82.17 ± 5.122e−05
82.3
82.25
82.2
82.15
82.1
82.05
pull
Entries 81
Mean 225.6
Std Dev 122.4
200
100
0
−100
−200
−300

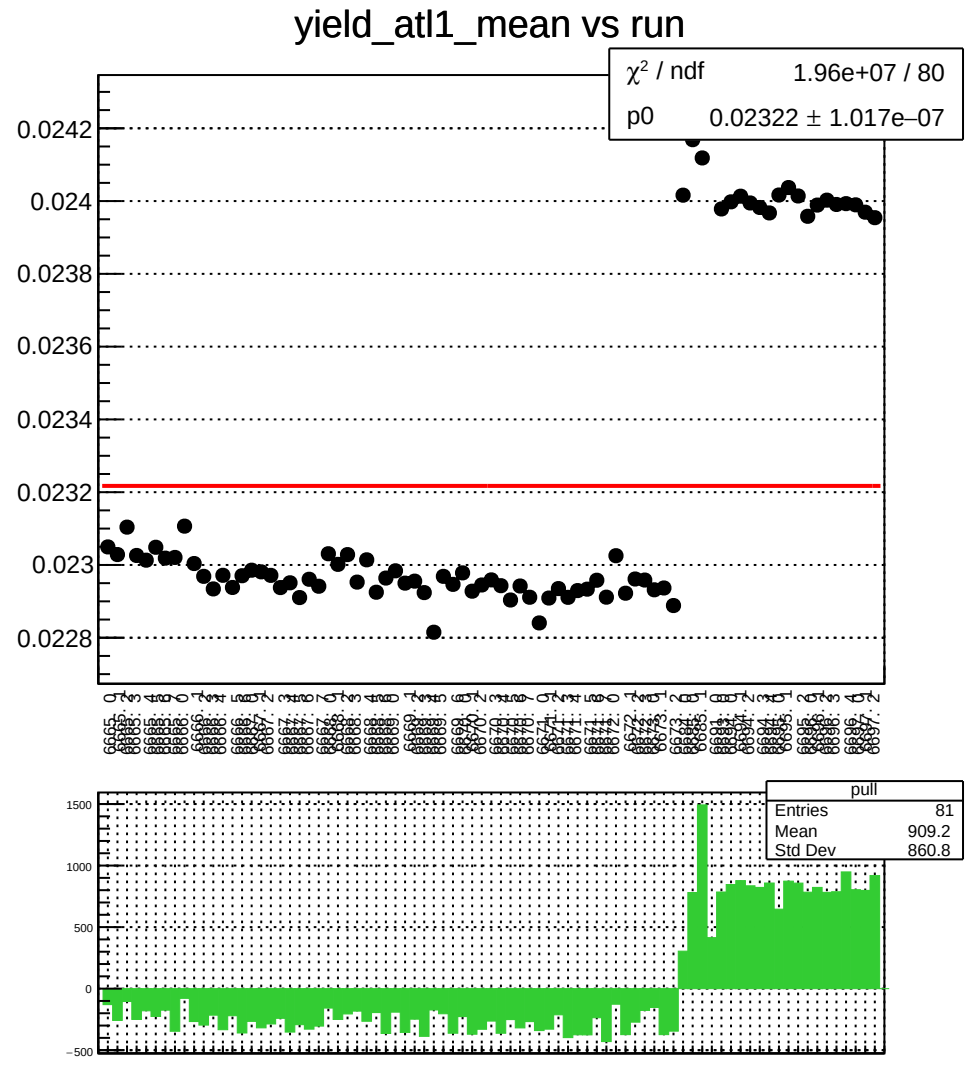

pull1D
Entries 81
Mean −0.4848
Std Dev 4.478
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

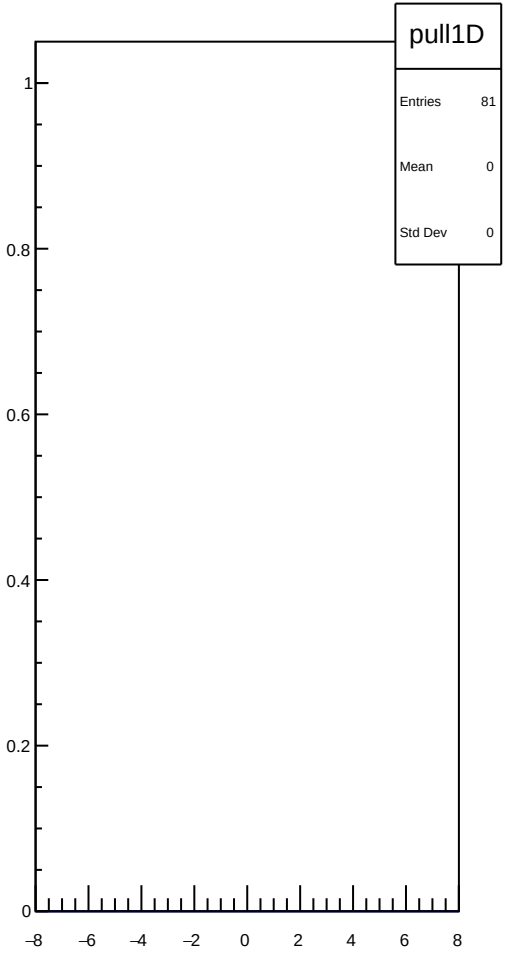

yield_dsl_rms vs run
χ² / ndf 1.619e+04 / 80
p0 0.04471 ± 3.622e–05
0.06
0.055
0.05
0.045
0.04
0.035

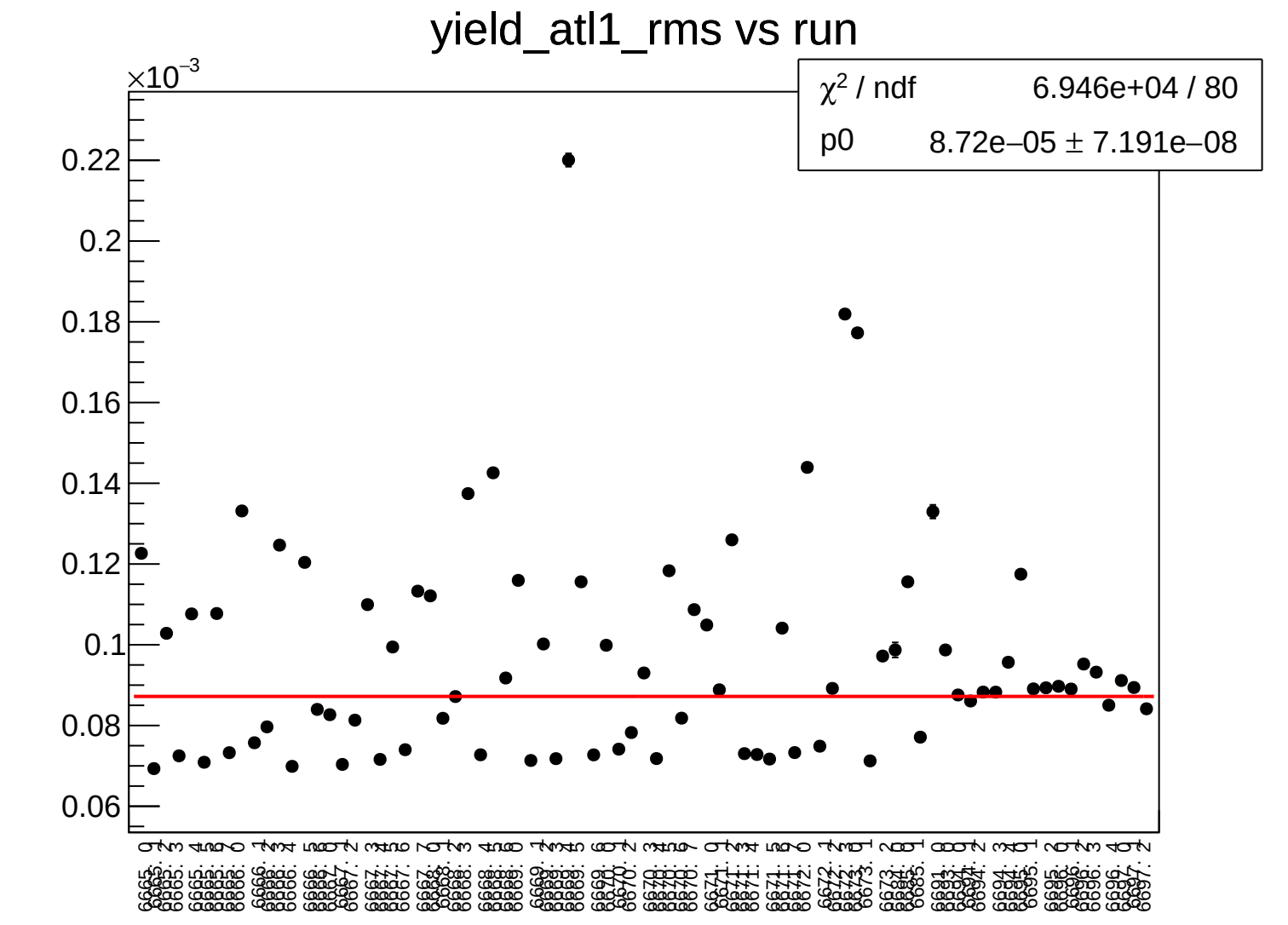

yield_dsr_mean vs run
χ² / ndf 4.247e+05 / 80
p0 −69.41 ± 6.857e−05
−69.3
−69.35
−69.4
−69.45
−69.5
pull
Entries 81
Mean 182.4
Std Dev 115.9
200
150
100
50
0
−50
−100
−150
−200

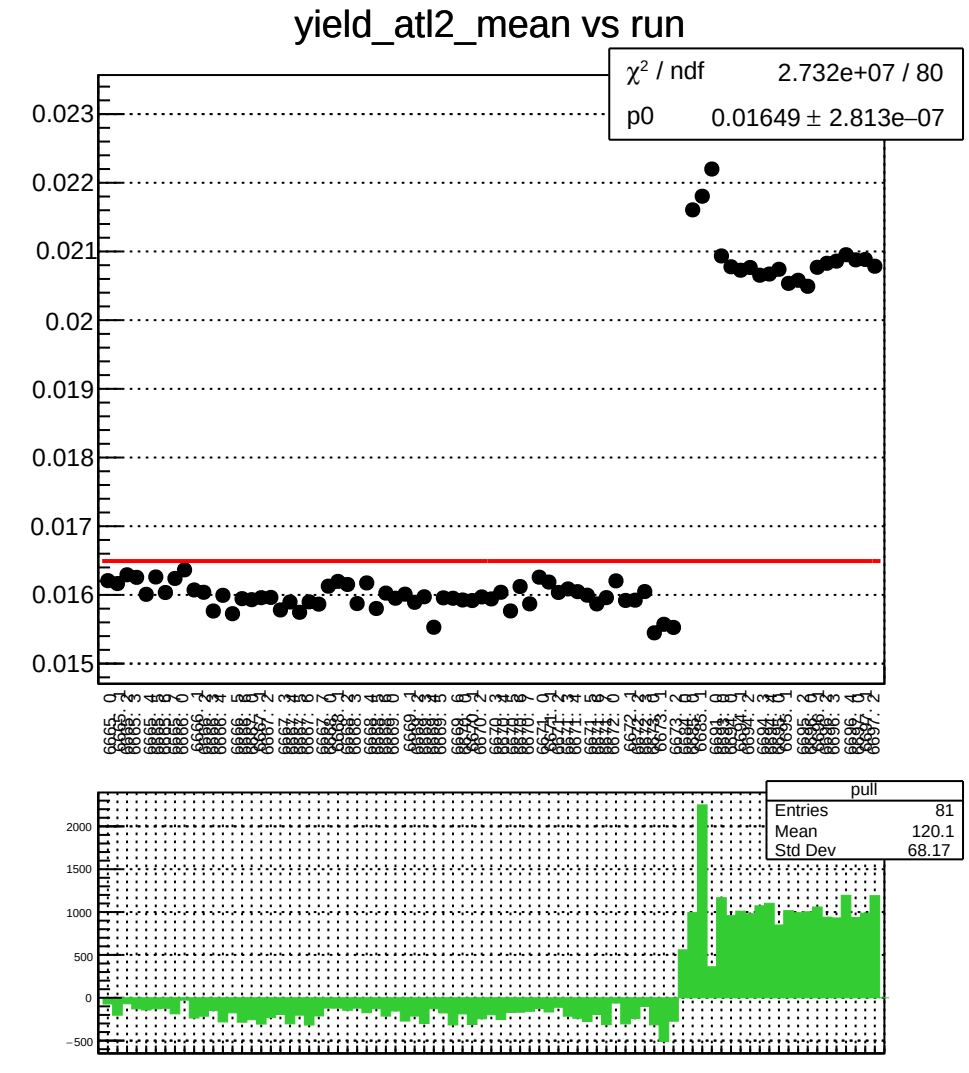

pull1D
Entries 81
Mean −2.505
Std Dev 4.09
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

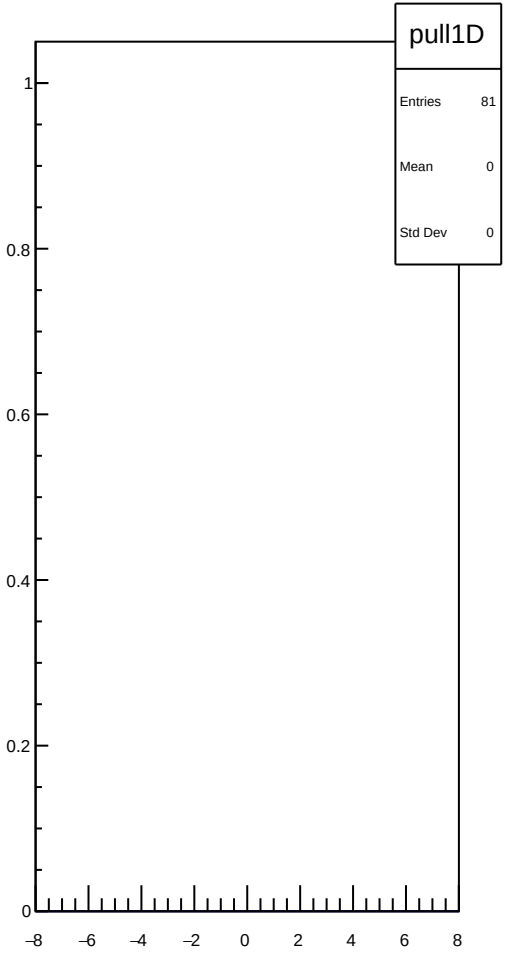

yield_dsr_rms vs run
χ² / ndf 5.544e+04 / 80
p0 0.05907 ± 4.848e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

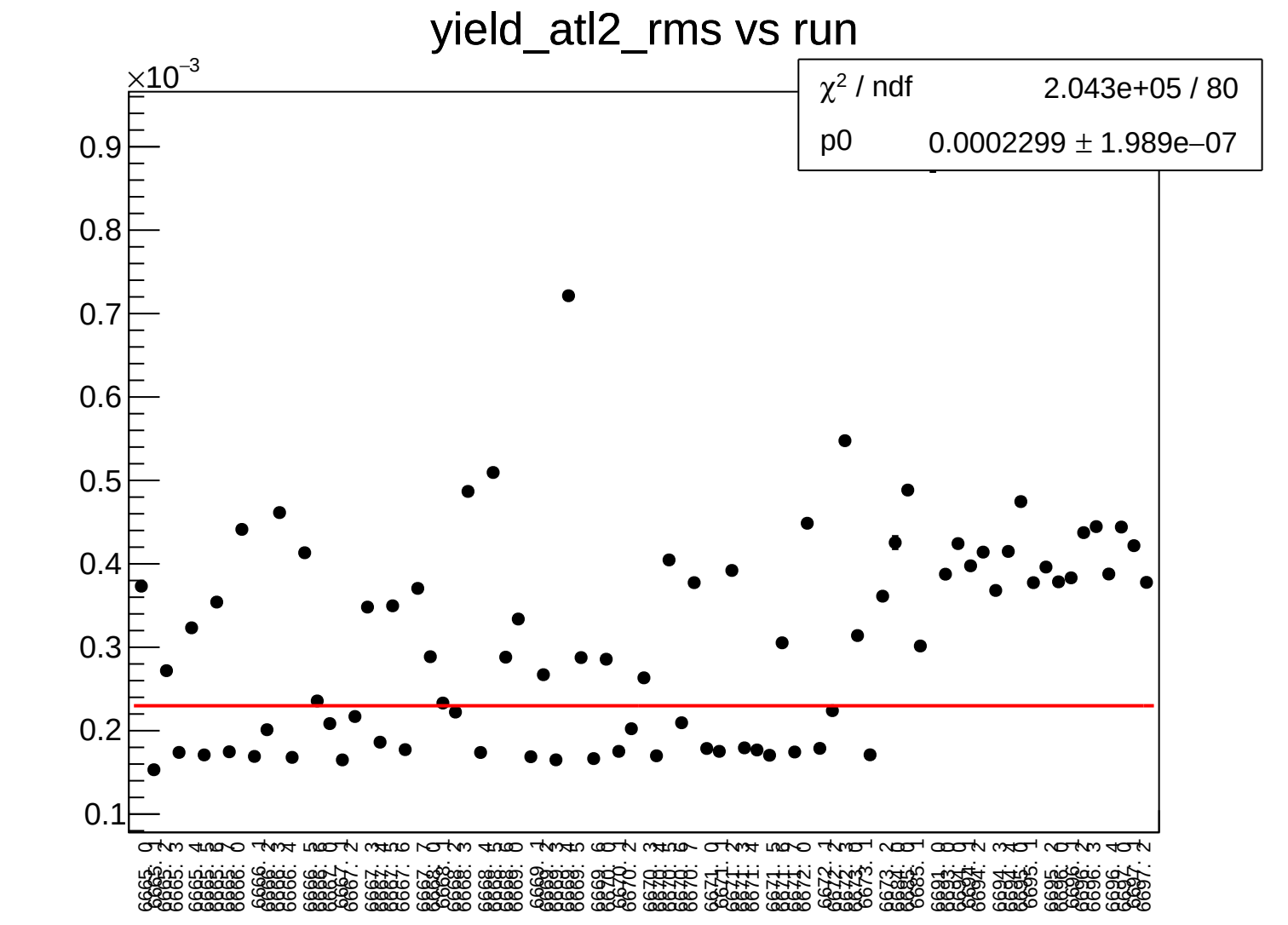

yield_atl1_mean vs run
χ² / ndf 1.96e+07 / 80
p0 0.02322 ± 1.017e−07
0.0242
0.024
0.0238
0.0236
0.0234
0.0232
0.023
0.0228
pull
Entries 81
Mean 909.2
Std Dev 860.8
1500
1000
500
0
−500

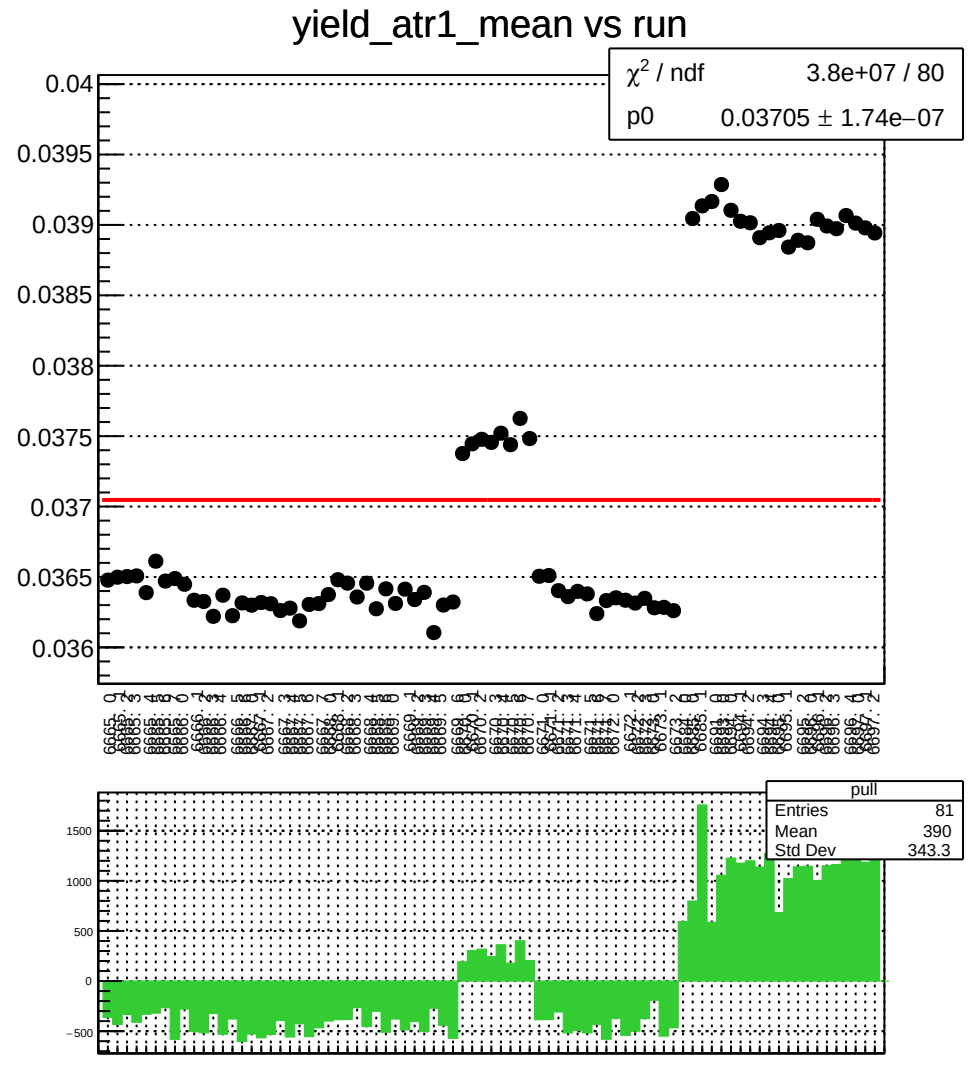

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

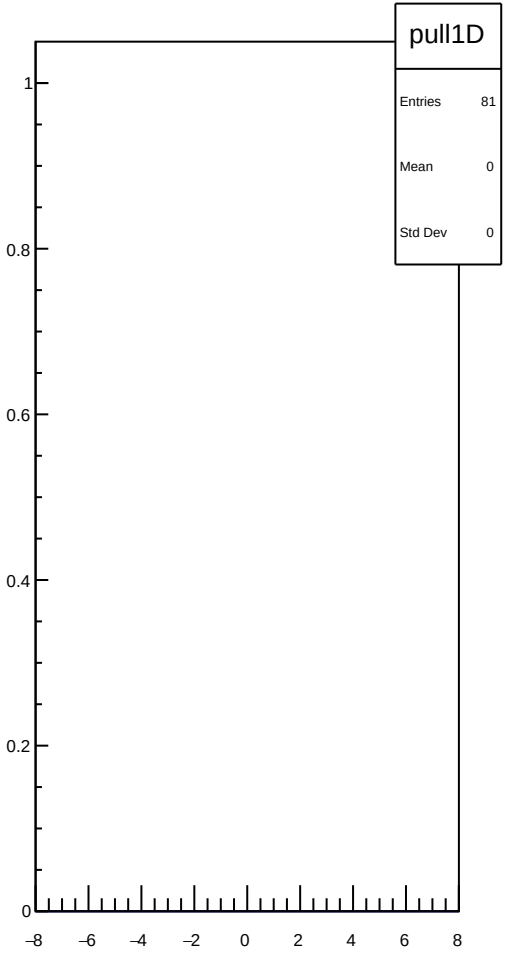

yield_atl1_rms vs run
×10⁻³
χ² / ndf 6.946e+04 / 80
p0 8.72e−05 ± 7.191e−08
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

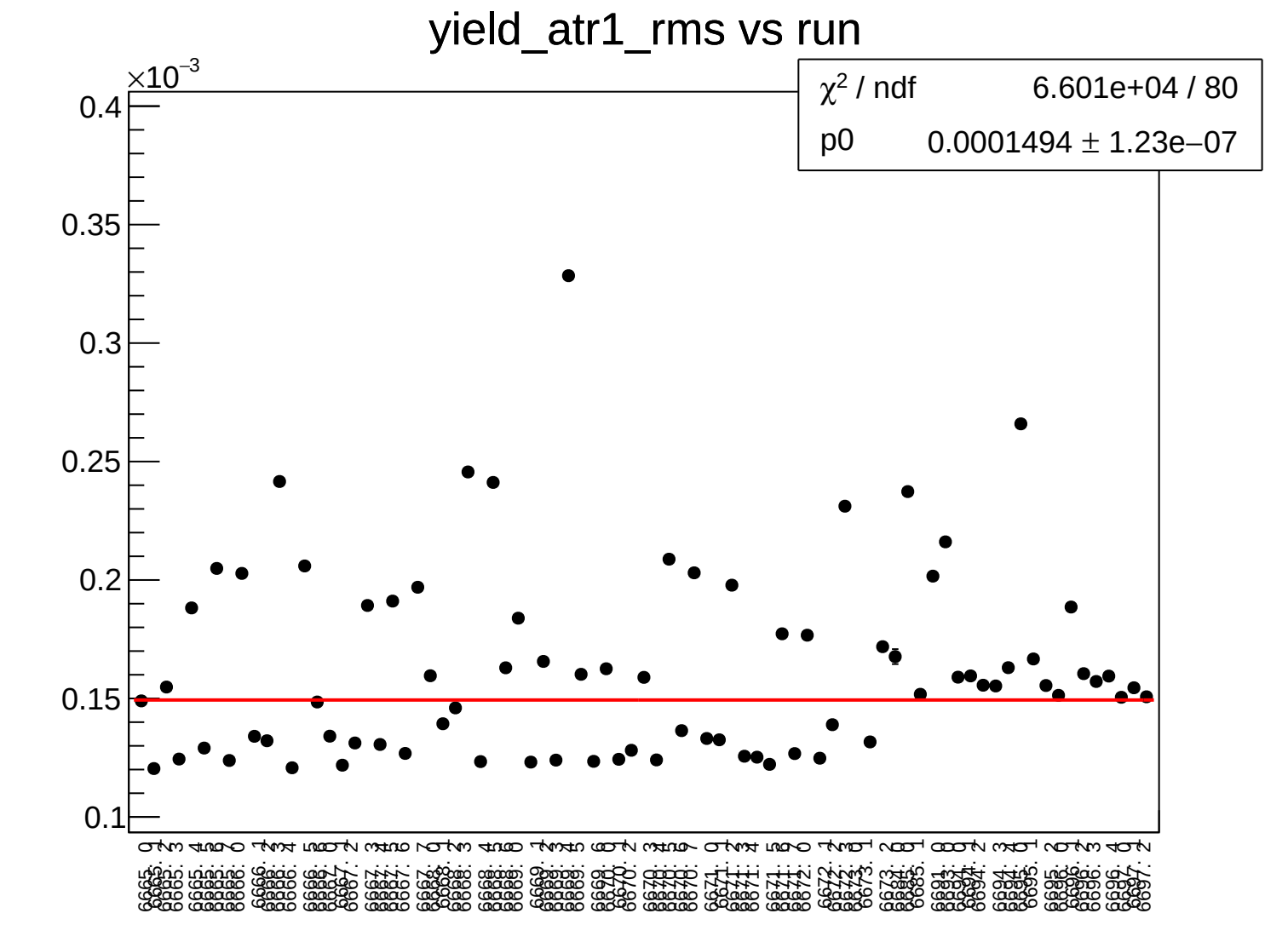

yield_atl2_mean vs run
χ² / ndf 2.732e+07 / 80
p0 0.01649 ± 2.813e–07
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016
0.015
pull
Entries 81
Mean 120.1
Std Dev 68.17
2000
1500
1000
500
0
−500

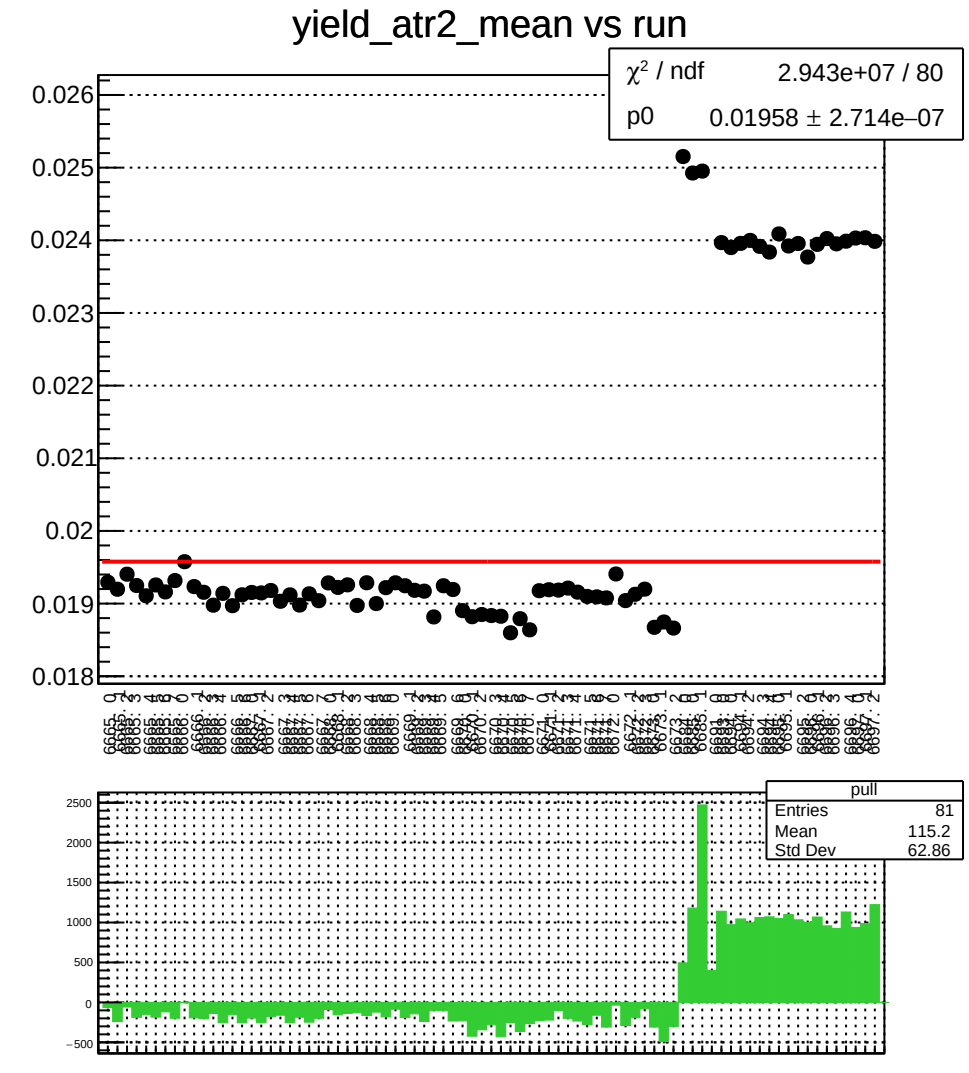

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

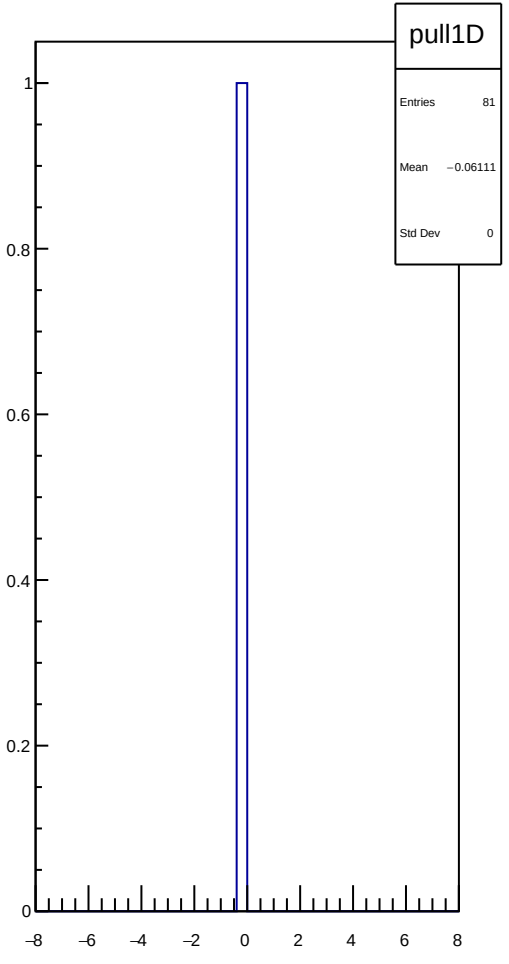

yield_atl2_rms vs run
×10⁻³
χ² / ndf 2.043e+05 / 80
p0 0.0002299 ± 1.989e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

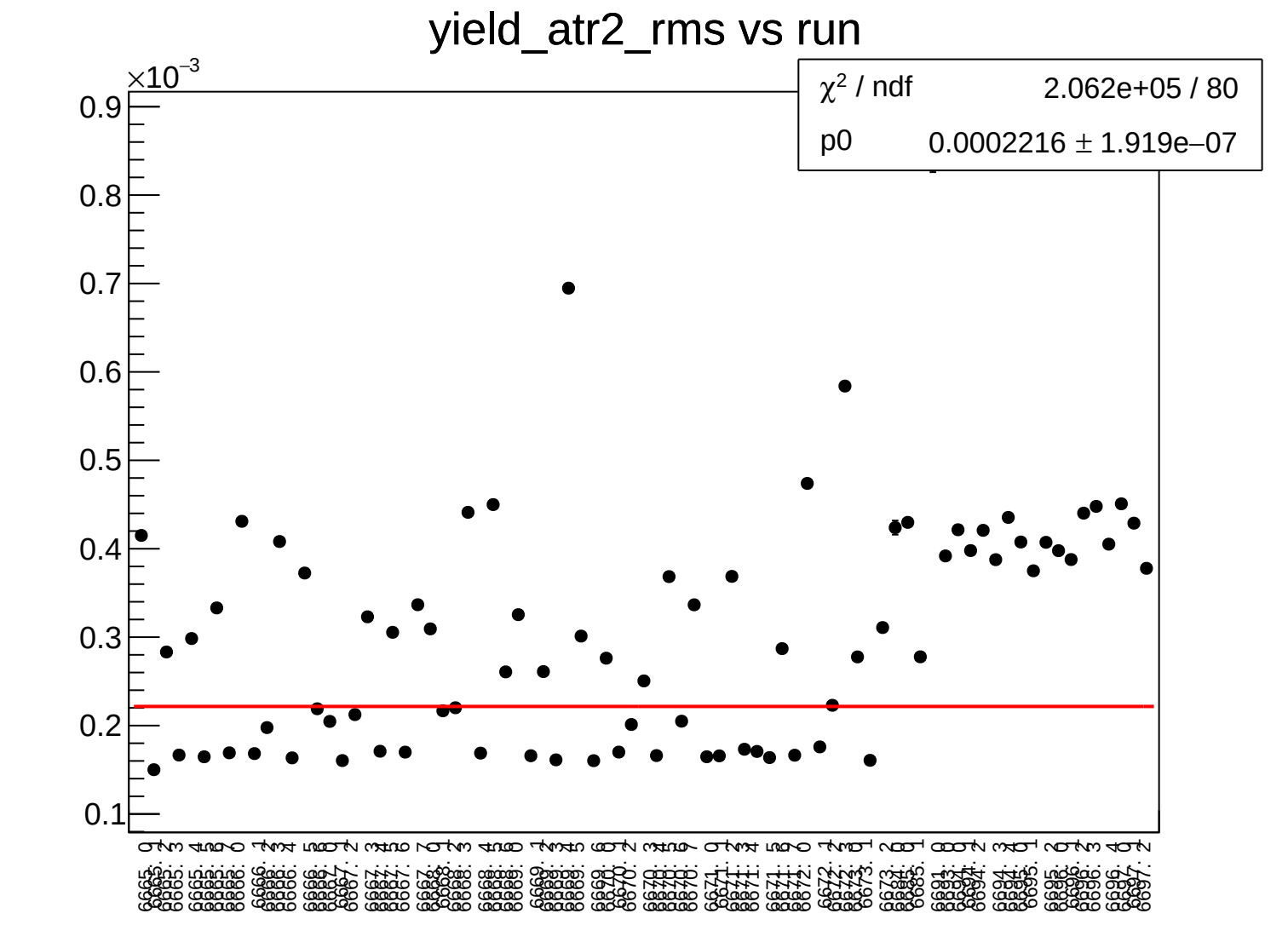

yield_atr1_mean vs run
χ² / ndf 3.8e+07 / 80
p0 0.03705 ± 1.74e−07
0.04
0.0395
0.039
0.0385
0.038
0.0375
0.037
0.0365
0.036
pull
Entries 81
Mean 390
Std Dev 343.3
1500
1000
500
0
−500

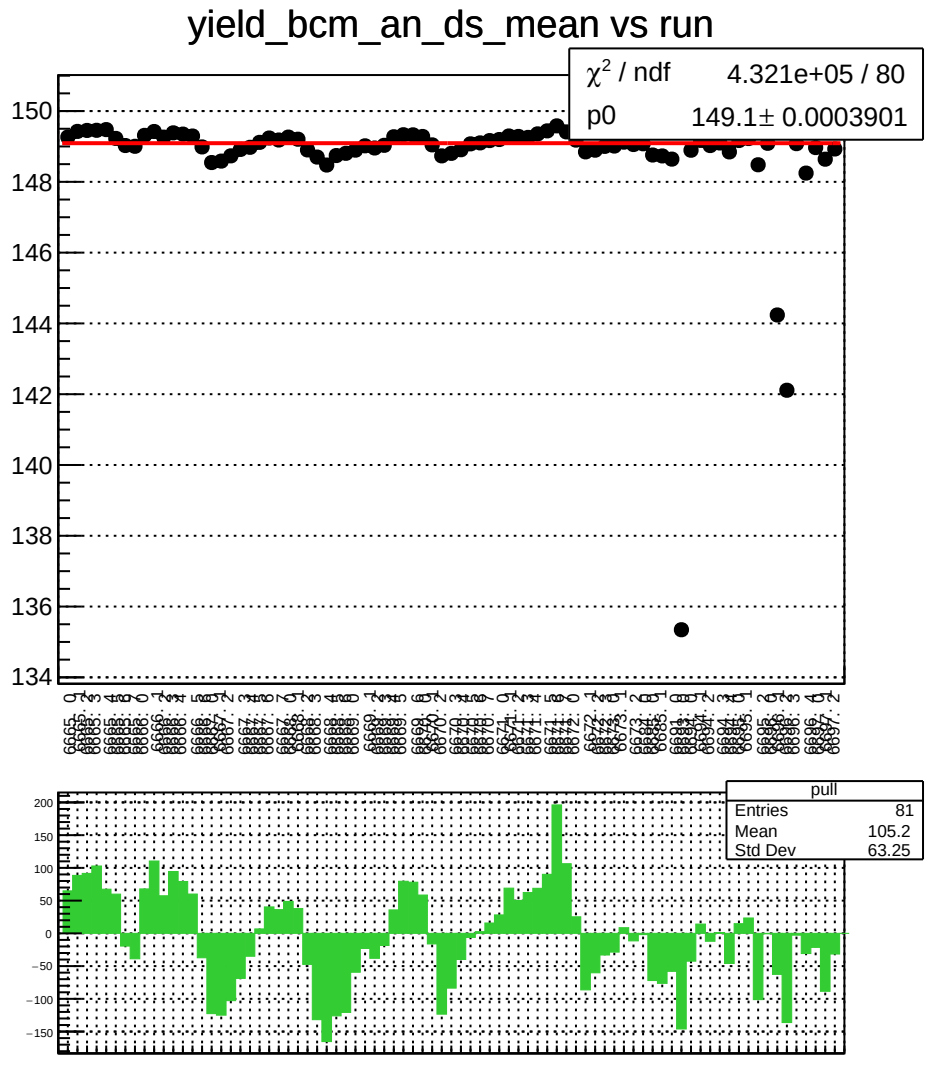

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

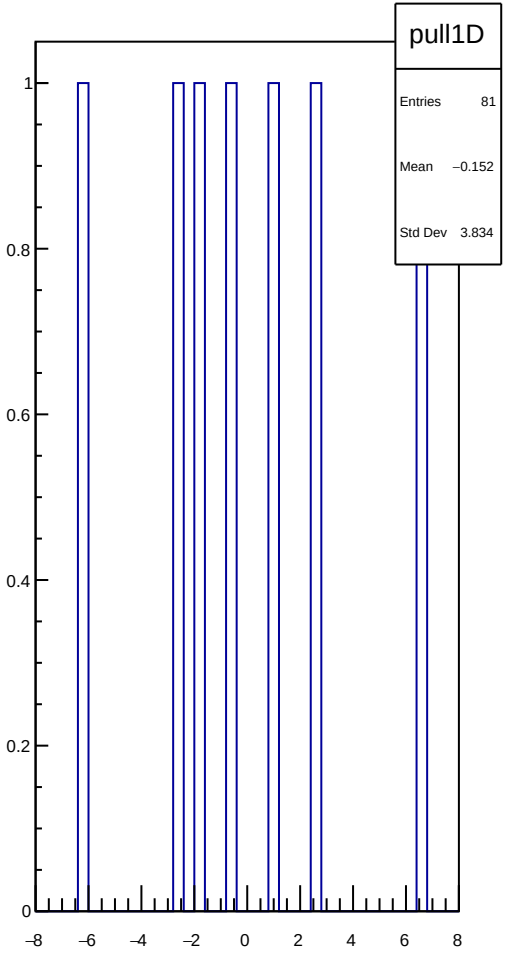

yield_atr1_rms vs run
×10⁻³
χ² / ndf 6.601e+04 / 80
p0 0.0001494 ± 1.23e−07
0.4
0.35
0.3
0.25
0.2
0.15
0.1

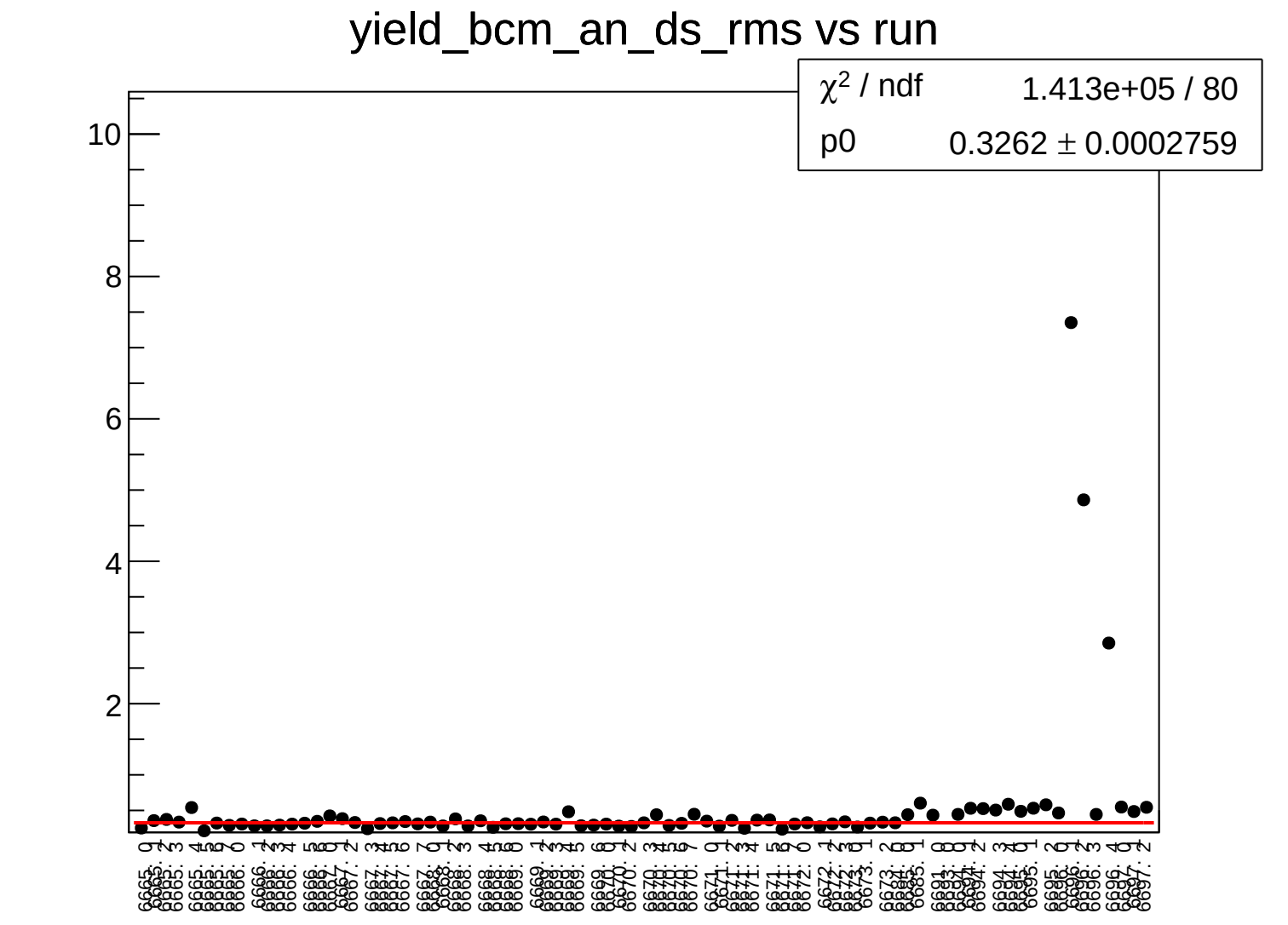

yield_atr2_mean vs run
χ² / ndf 2.943e+07 / 80
p0 0.01958 ± 2.714e−07
0.026
0.025
0.024
0.023
0.022
0.021
0.02
0.019
0.018
pull
Entries 81
Mean 115.2
Std Dev 62.86
2500
2000
1500
1000
500
0
−500

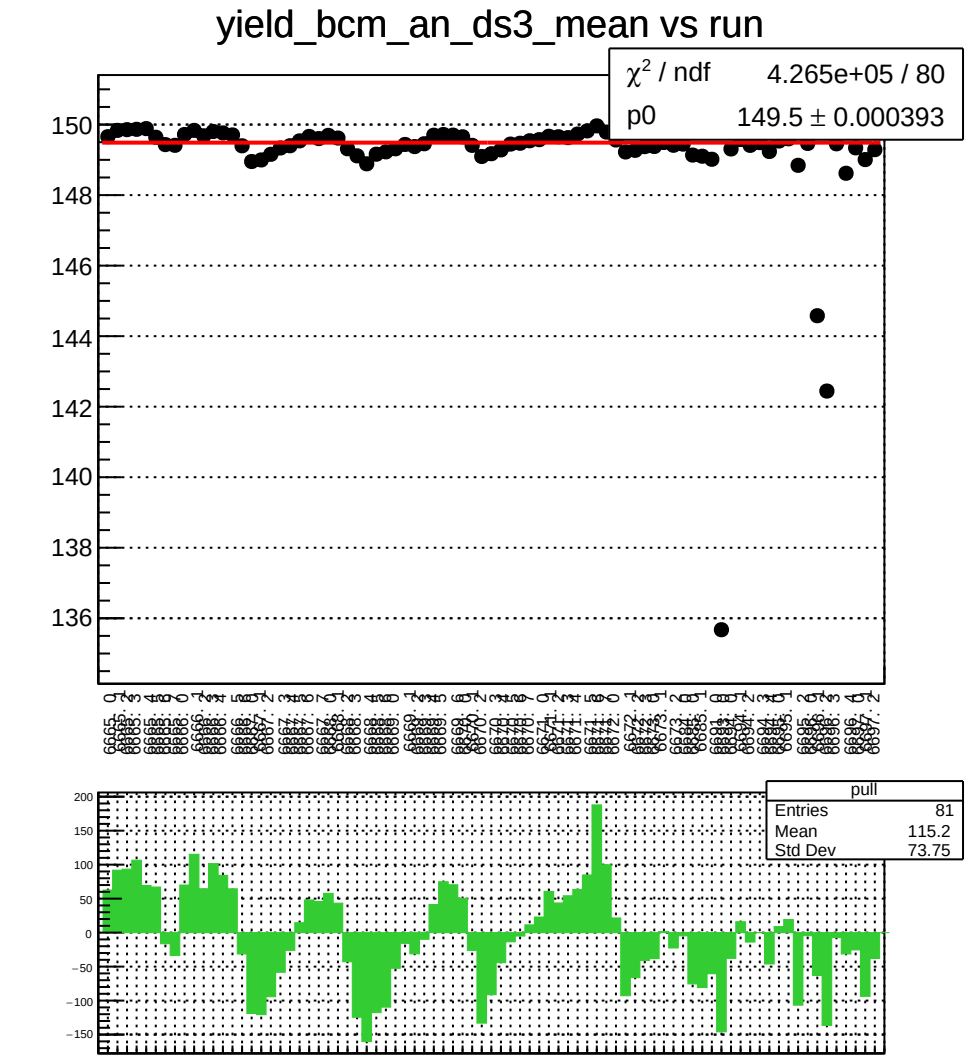

pull1D
Entries 81
Mean −0.06111
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

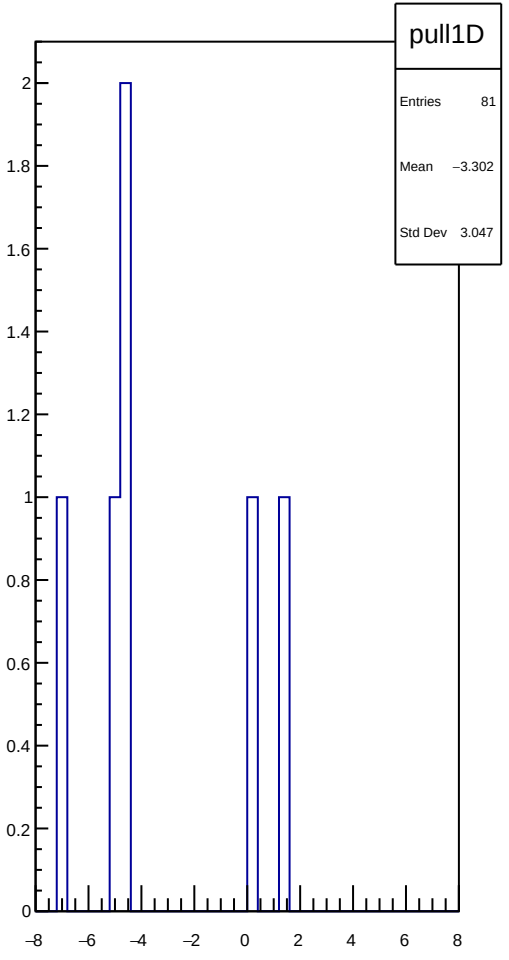

yield_atr2_rms vs run
×10⁻³
χ² / ndf 2.062e+05 / 80
p0 0.0002216 ± 1.919e−07
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

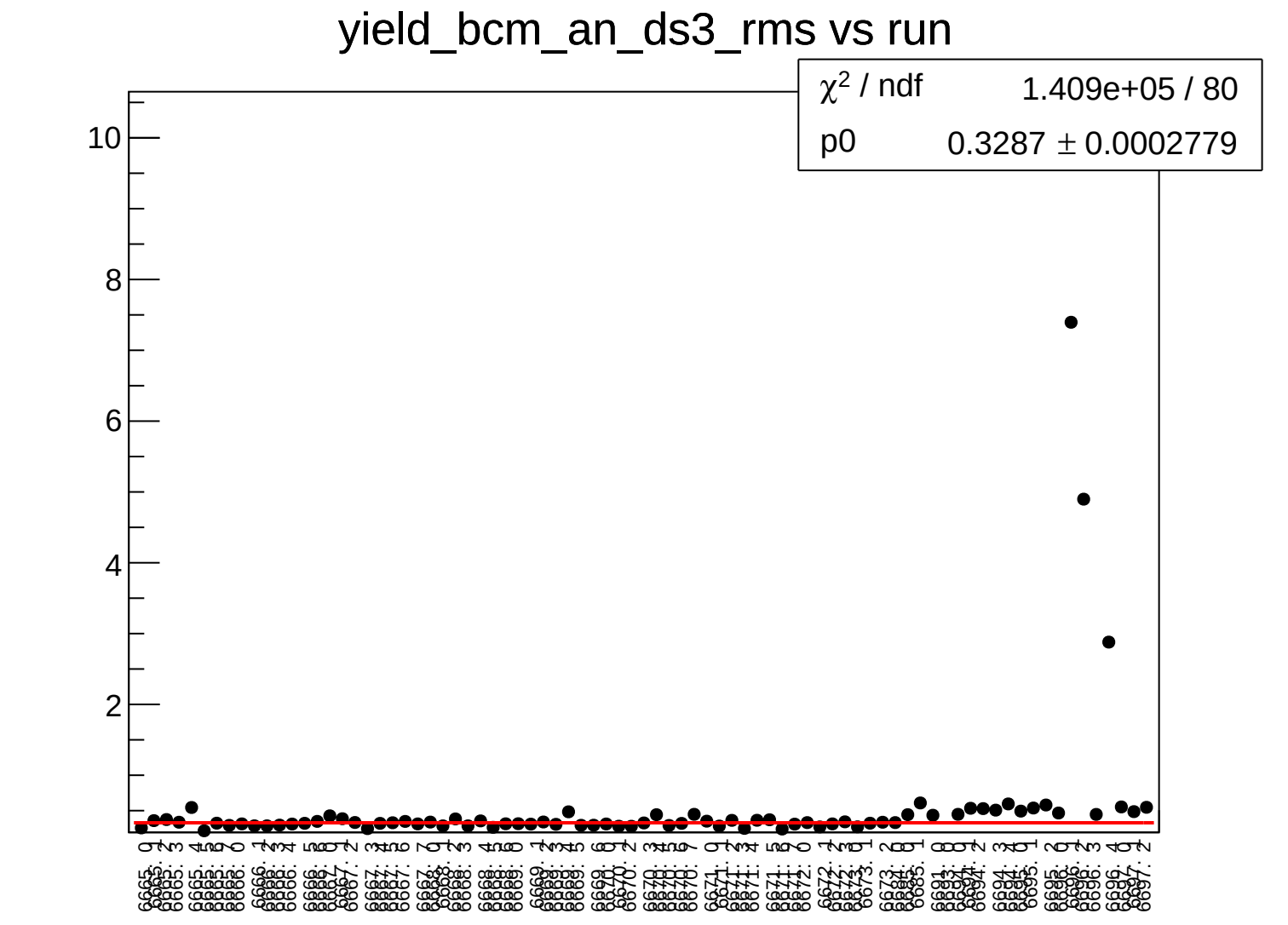

yield_bcm_an_ds_mean vs run
χ² / ndf 4.321e+05 / 80
p0 149.1± 0.0003901
150
148
146
144
142
140
138
136
134
pull
Entries 81
Mean 105.2
Std Dev 63.25
200
150
100
50
0
−50
−100
−150

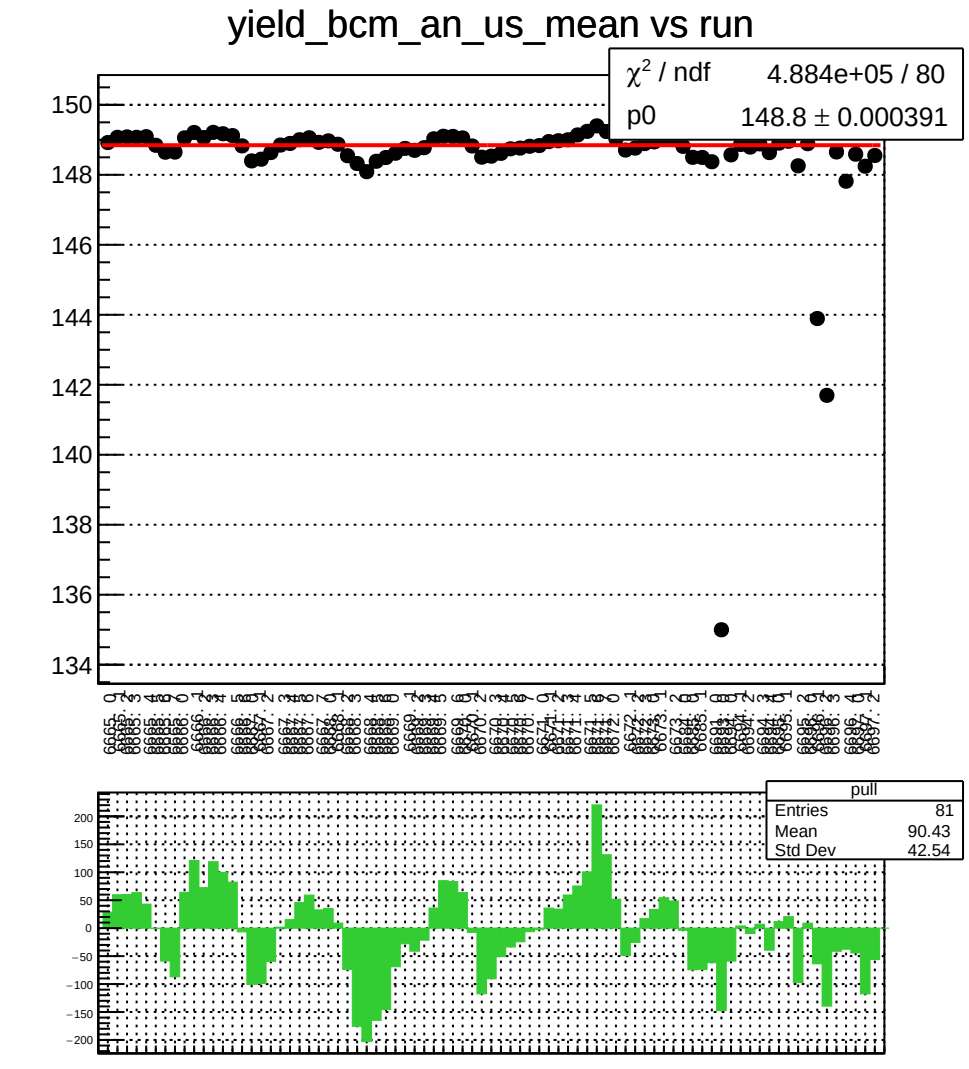

pull1D
Entries 81
Mean −0.152
Std Dev 3.834
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

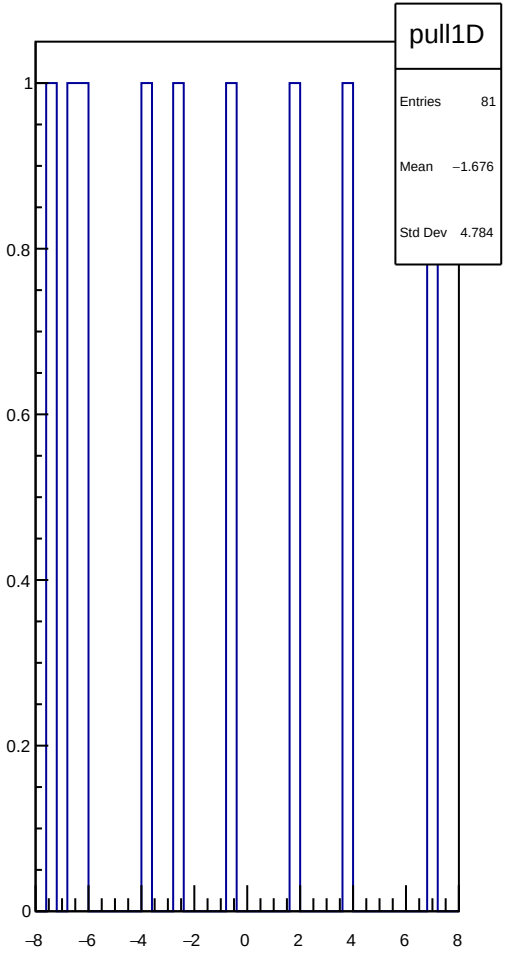

yield_bcm_an_ds_rms vs run
χ^2 / ndf 1.413e+05 / 80
p0 0.3262 ± 0.0002759
10
8
6
4
2

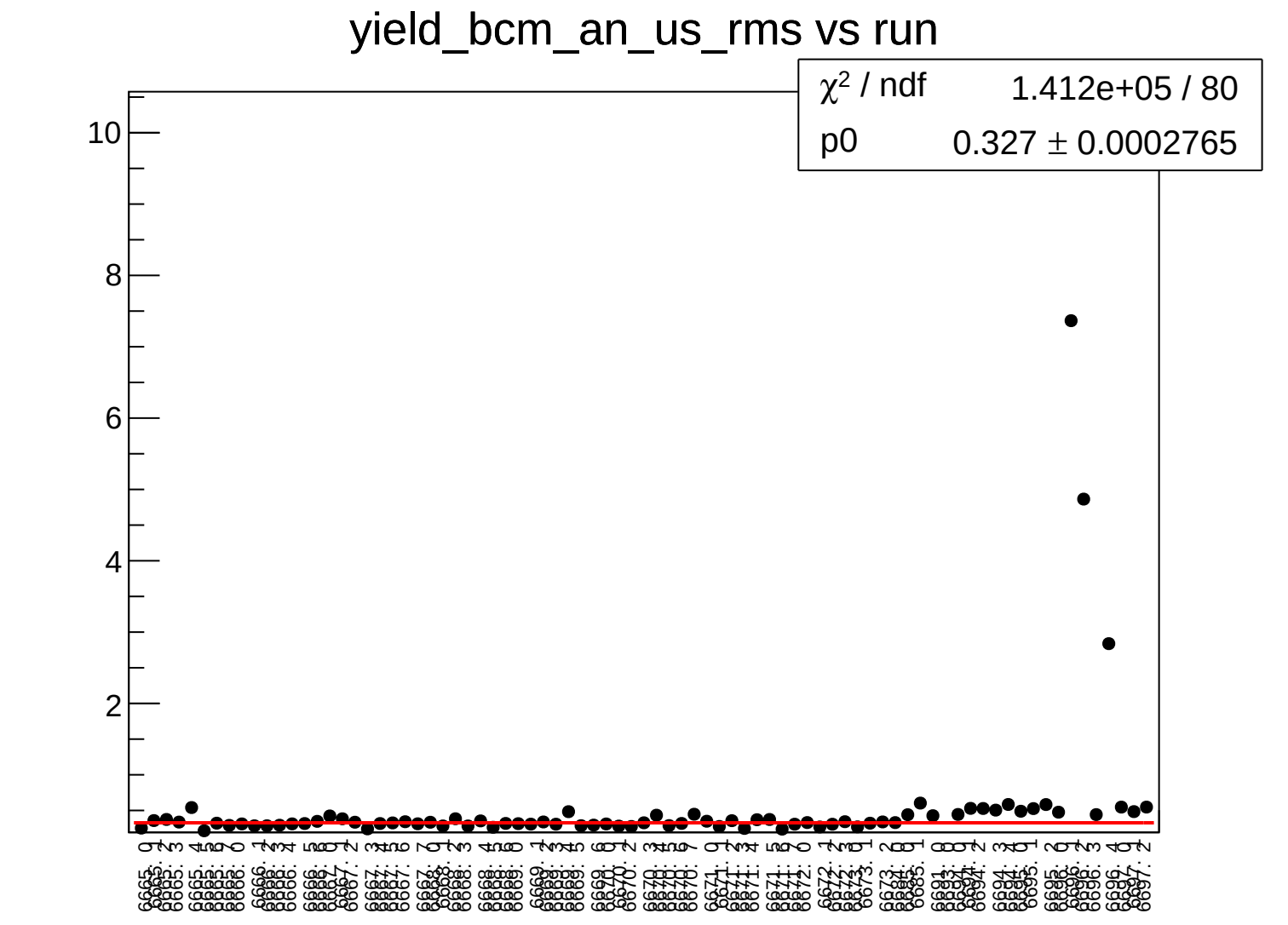

yield_bcm_an_ds3_mean vs run
χ² / ndf 4.265e+05 / 80
p0 149.5 ± 0.000393
150
148
146
144
142
140
138
136
pull
Entries 81
Mean 115.2
Std Dev 73.75
200
150
100
50
0
−50
−100
−150

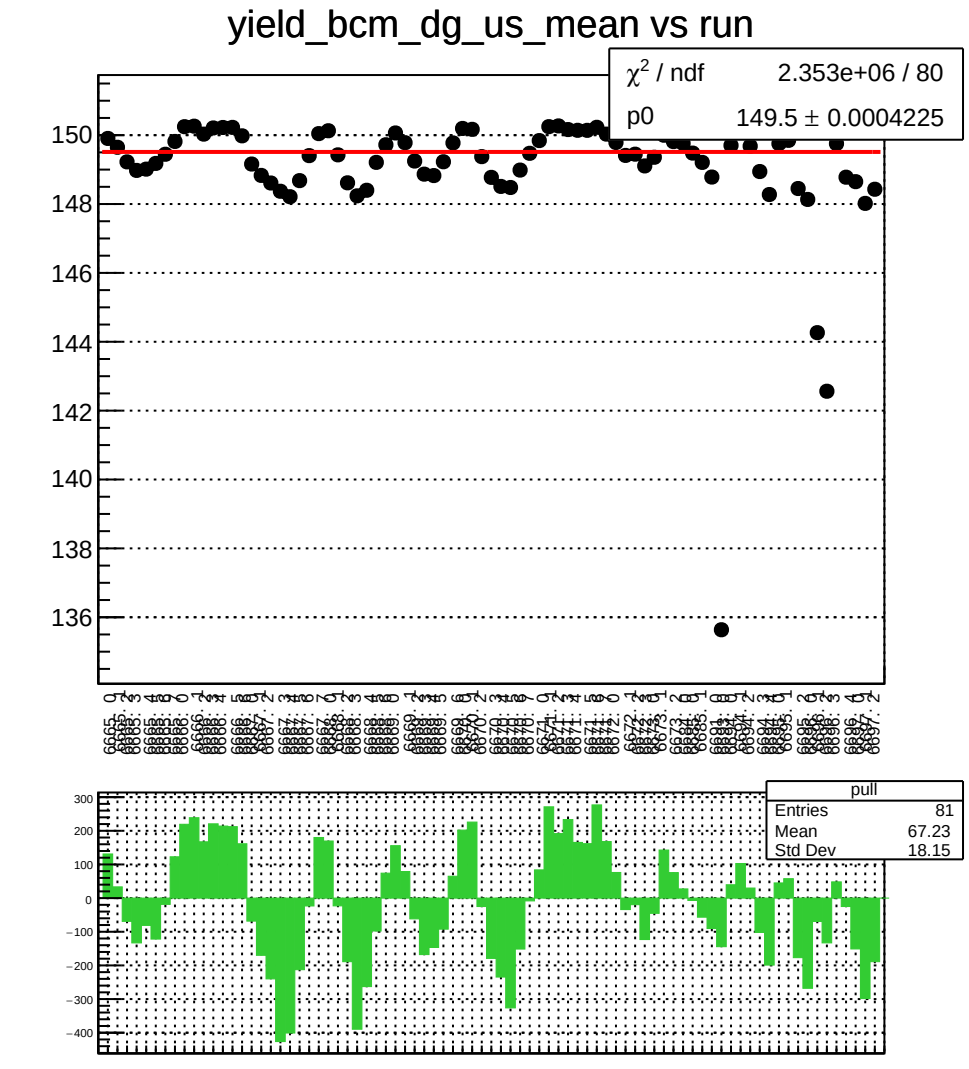

pull1D
Entries 81
Mean −3.302
Std Dev 3.047
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

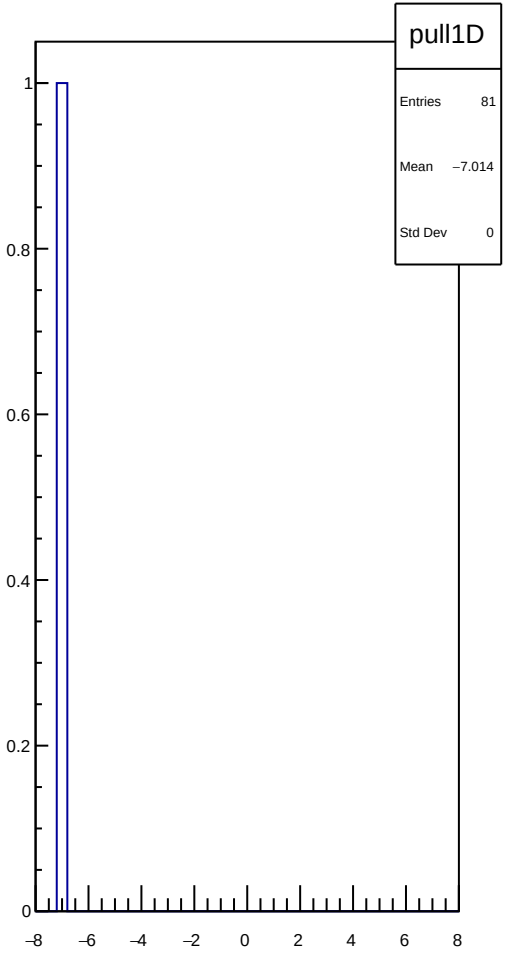

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.409e+05 / 80
p0 0.3287 ± 0.0002779
10
8
6
4
2

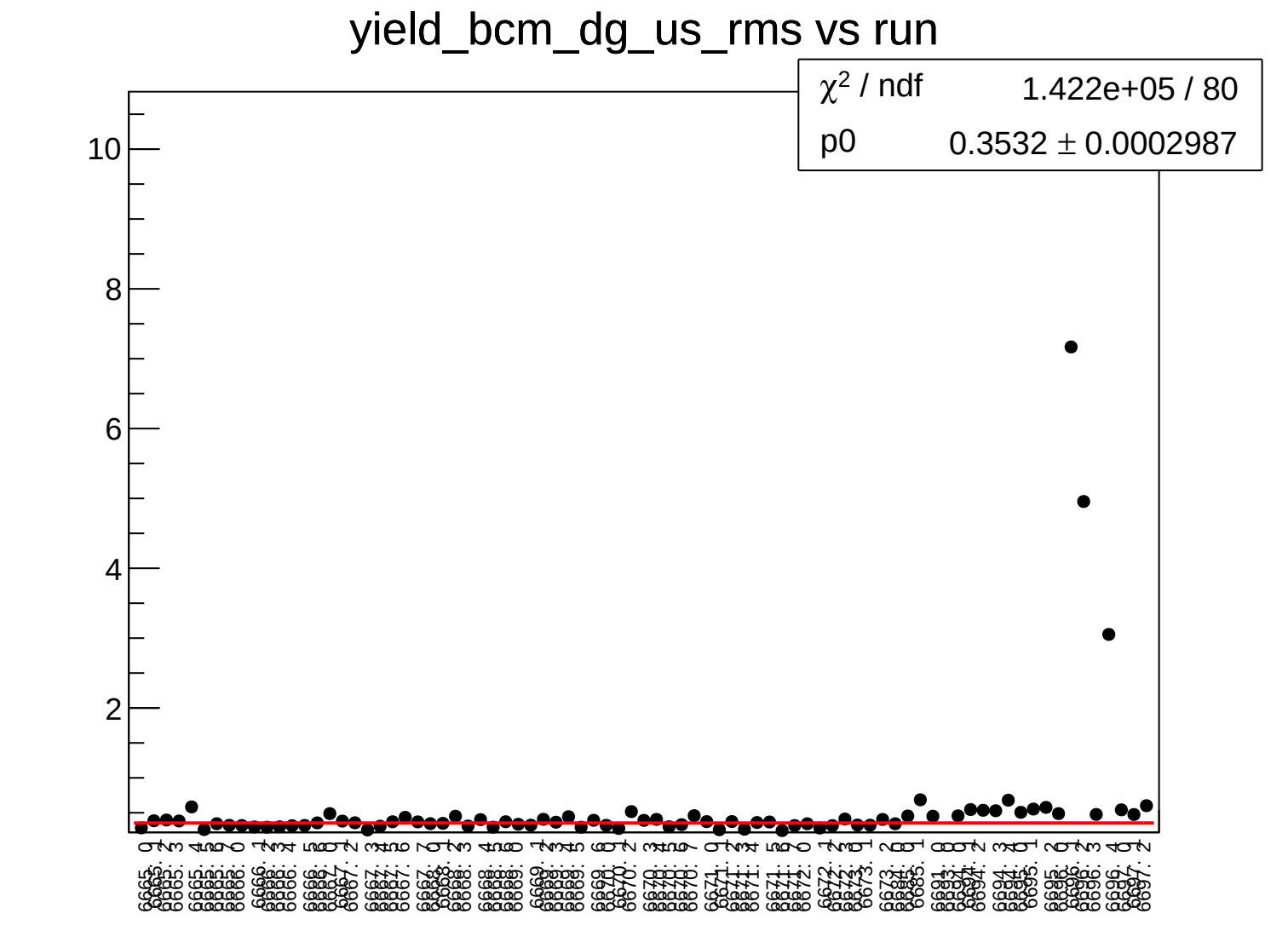

yield_bcm_an_us_mean vs run
χ² / ndf 4.884e+05 / 80
p0 148.8 ± 0.000391
150
148
146
144
142
140
138
136
134
pull
Entries 81
Mean 90.43
Std Dev 42.54
200
150
100
50
0
−50
−100
−150
−200

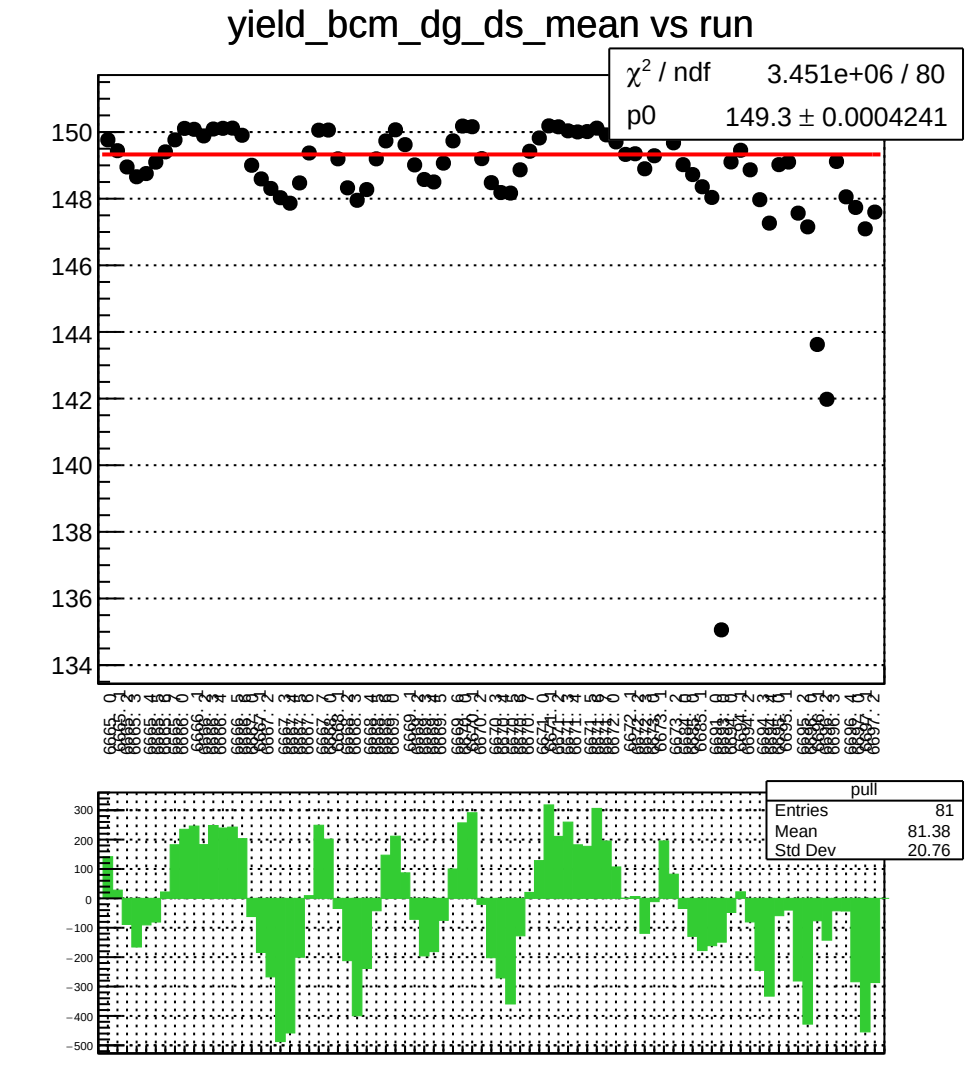

pull1D
Entries 81
Mean −1.676
Std Dev 4.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

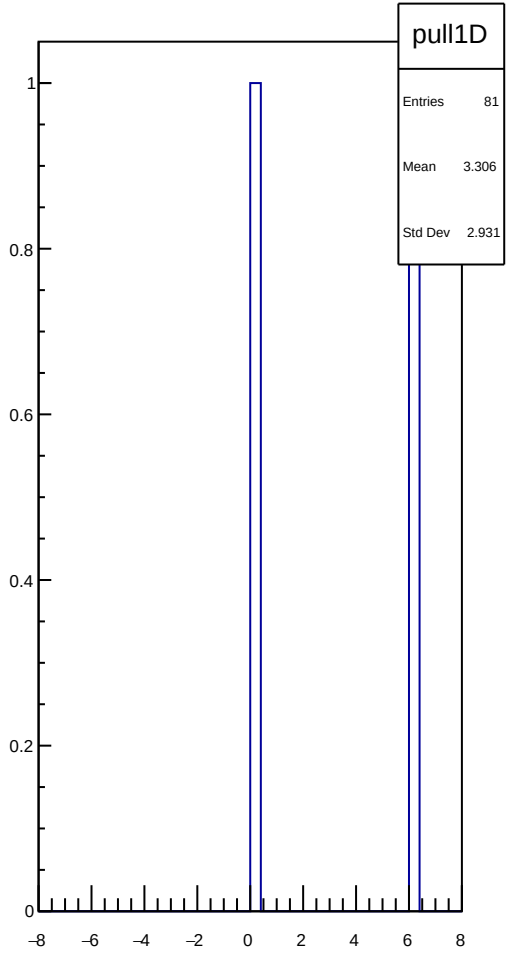

yield_bcm_an_us_rms vs run
χ² / ndf 1.412e+05 / 80
p0 0.327 ± 0.0002765
10
8
6
4
2

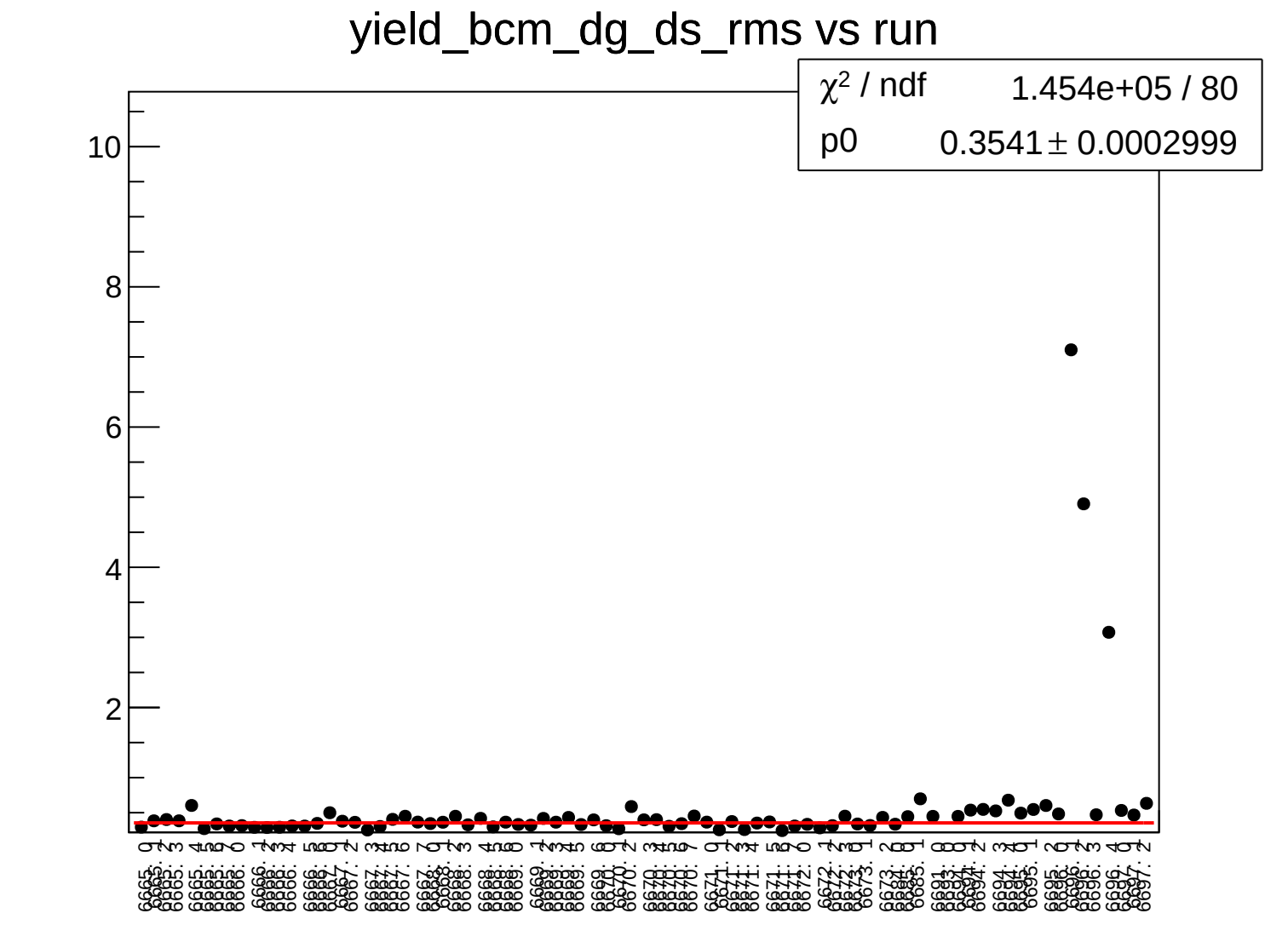

yield_bcm_dg_us_mean vs run
χ² / ndf 2.353e+06 / 80
p0 149.5 ± 0.0004225
150
148
146
144
142
140
138
136
pull
Entries 81
Mean 67.23
Std Dev 18.15
300
200
100
0
−100
−200
−300
−400

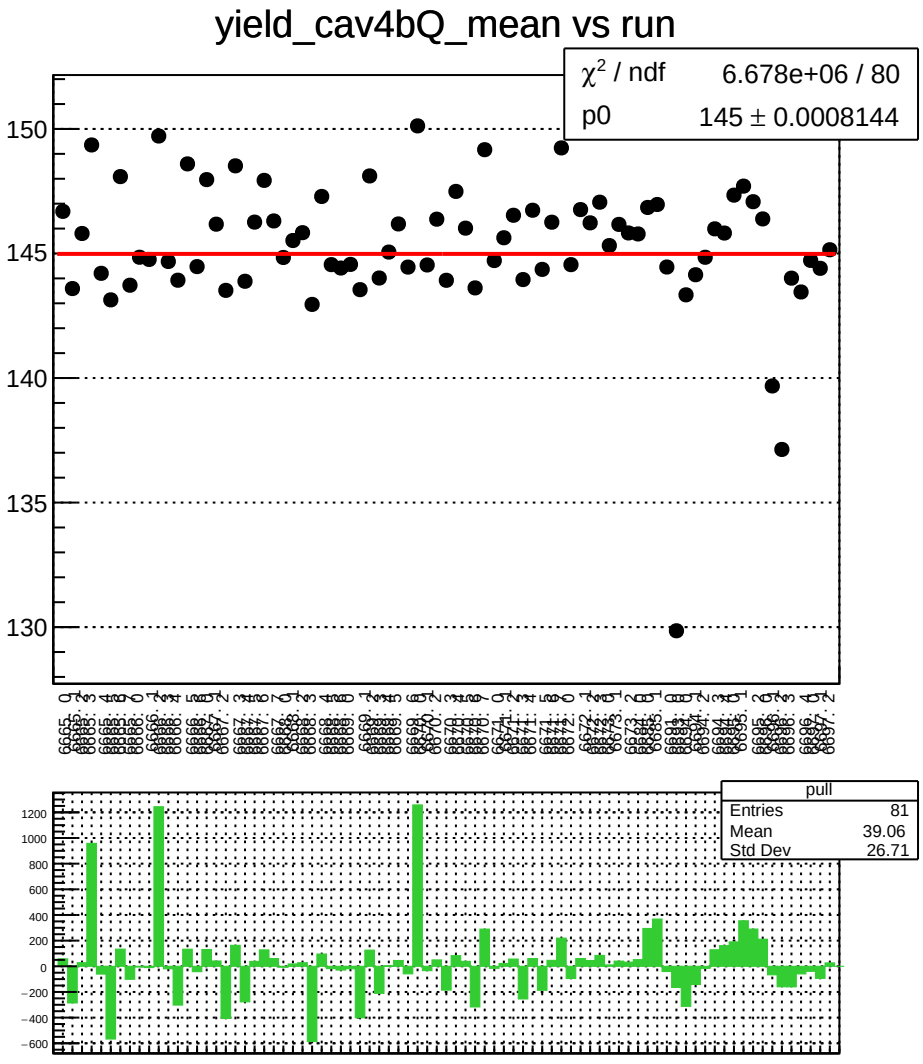

pull1D
Entries 81
Mean −7.014
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

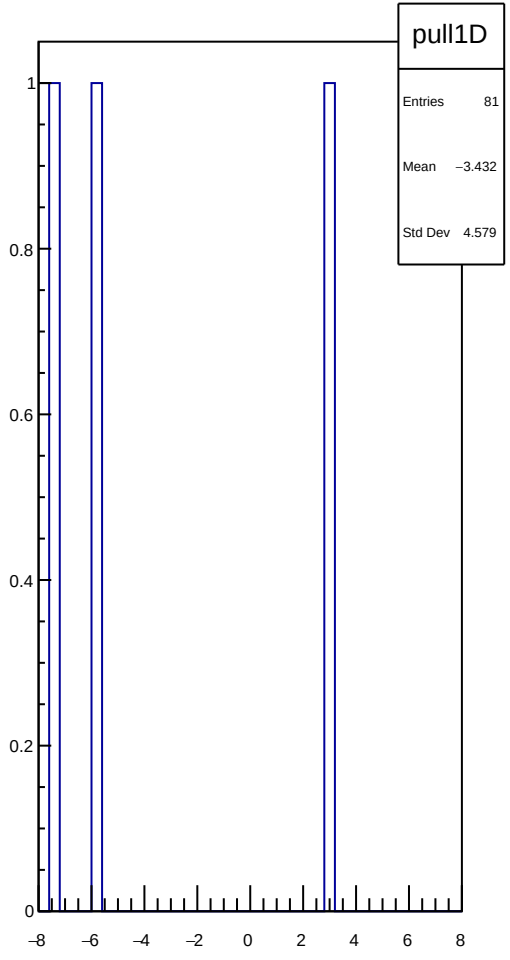

yield_bcm_dg_us_rms vs run
χ² / ndf 1.422e+05 / 80
p0 0.3532 ± 0.0002987
10
8
6
4
2

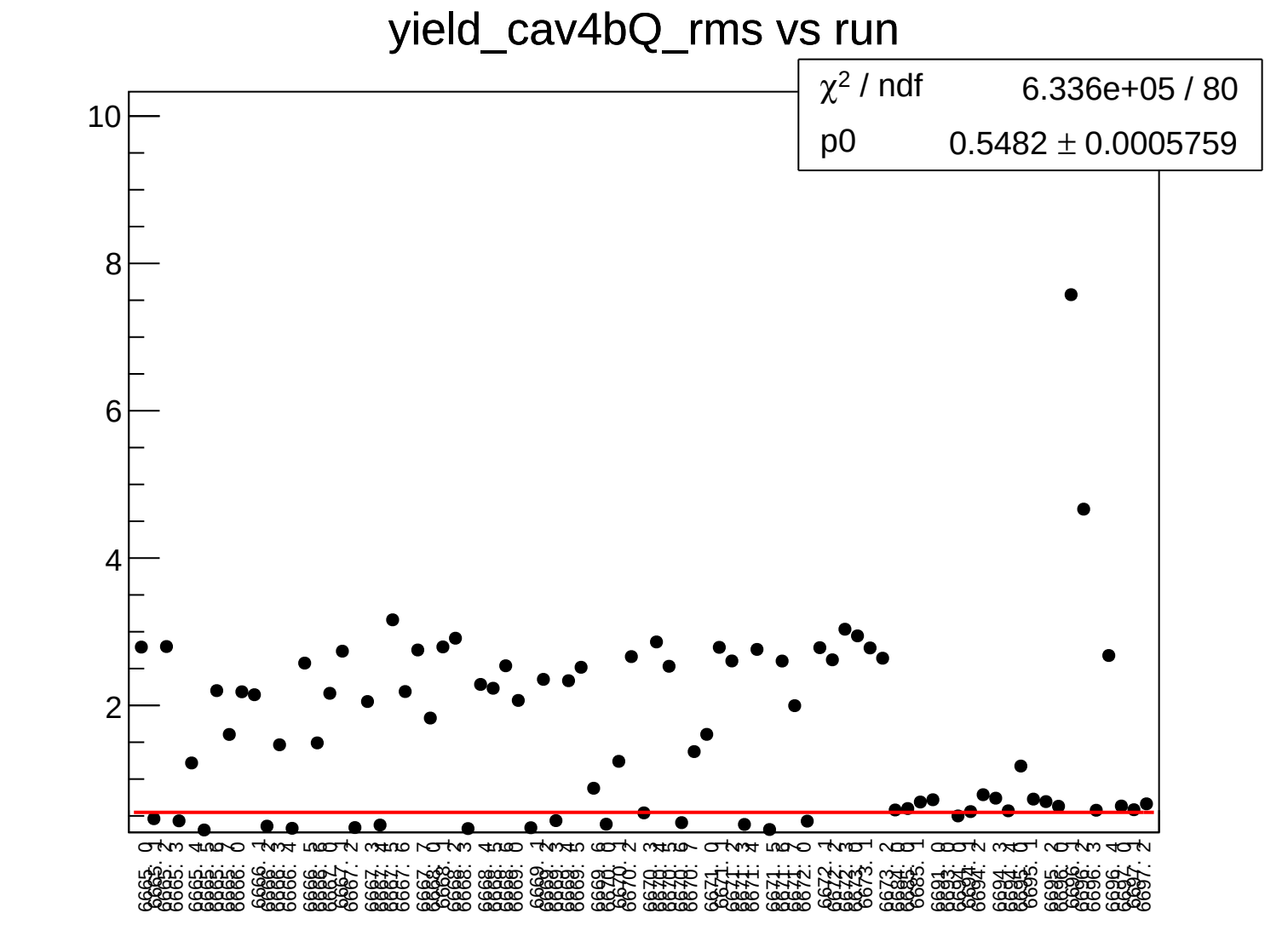

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.451e+06 / 80
p0 149.3 ± 0.0004241
150
148
146
144
142
140
138
136
134
pull
Entries 81
Mean 81.38
Std Dev 20.76
300
200
100
0
−100
−200
−300
−400
−500

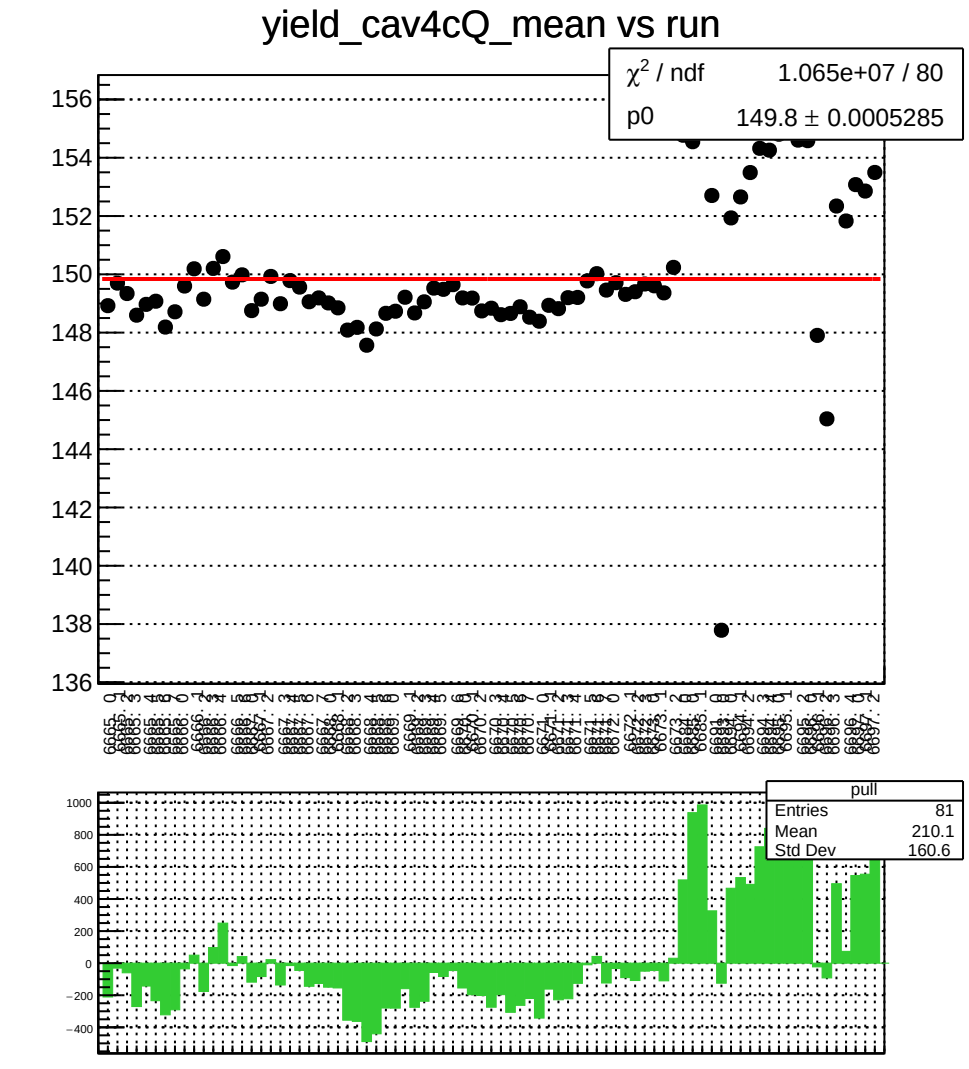

pull1D
Entries 81
Mean 3.306
Std Dev 2.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

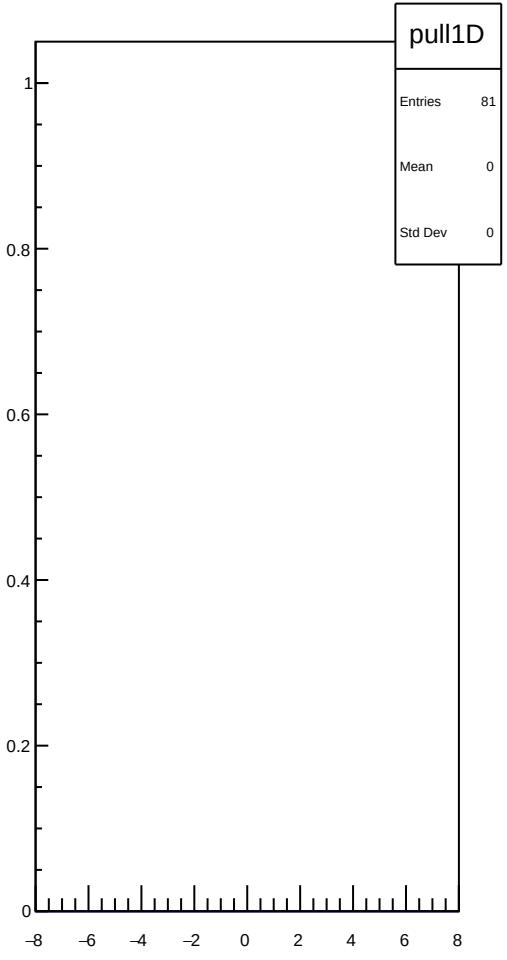

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.454e+05 / 80
p0 0.3541 ± 0.0002999
10
8
6
4
2

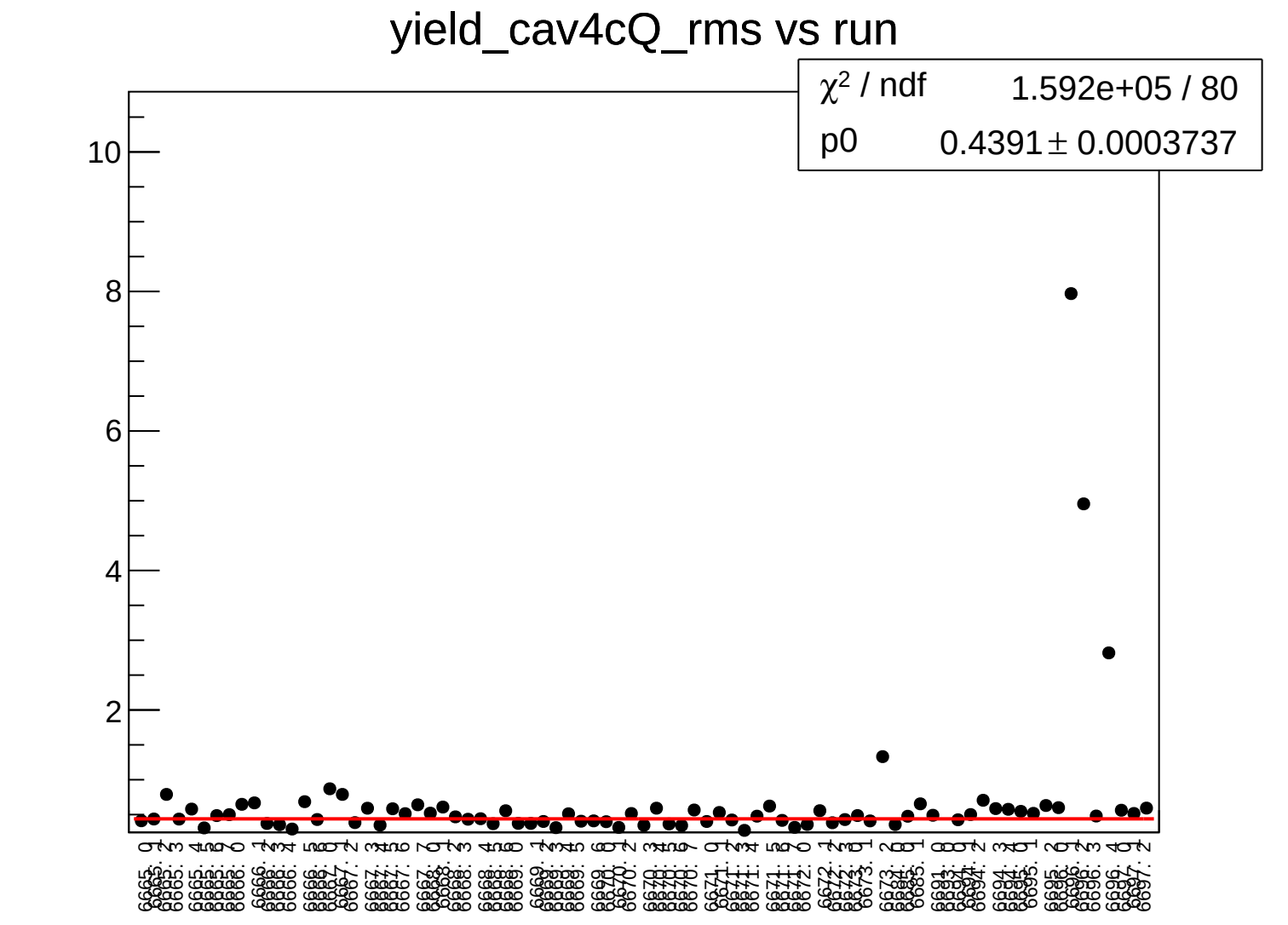

yield_cav4bQ_mean vs run
χ² / ndf 6.678e+06 / 80
p0 145 ± 0.0008144
150
145
140
135
130
pull
Entries 81
Mean 39.06
Std Dev 26.71
1200
1000
800
600
400
200
0
−200
−400
−600

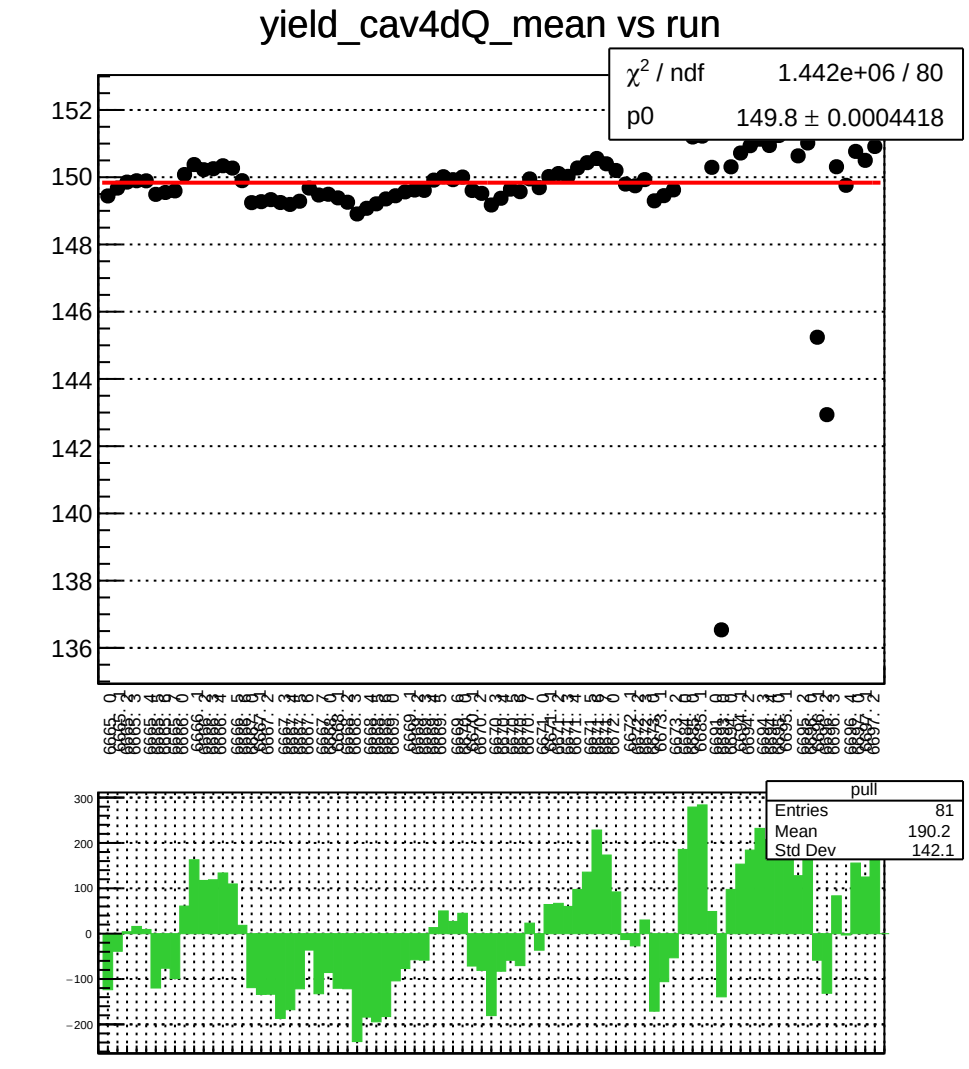

pull1D
Entries 81
Mean −3.432
Std Dev 4.579
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

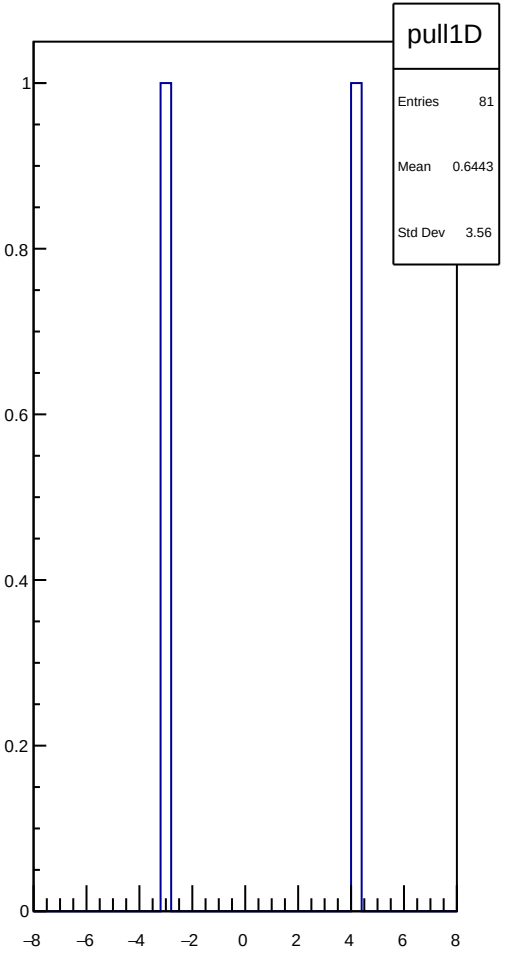

yield_cav4bQ_rms vs run
χ^2 / ndf 6.336e+05 / 80
p0 0.5482 ± 0.0005759
10
8
6
4
2

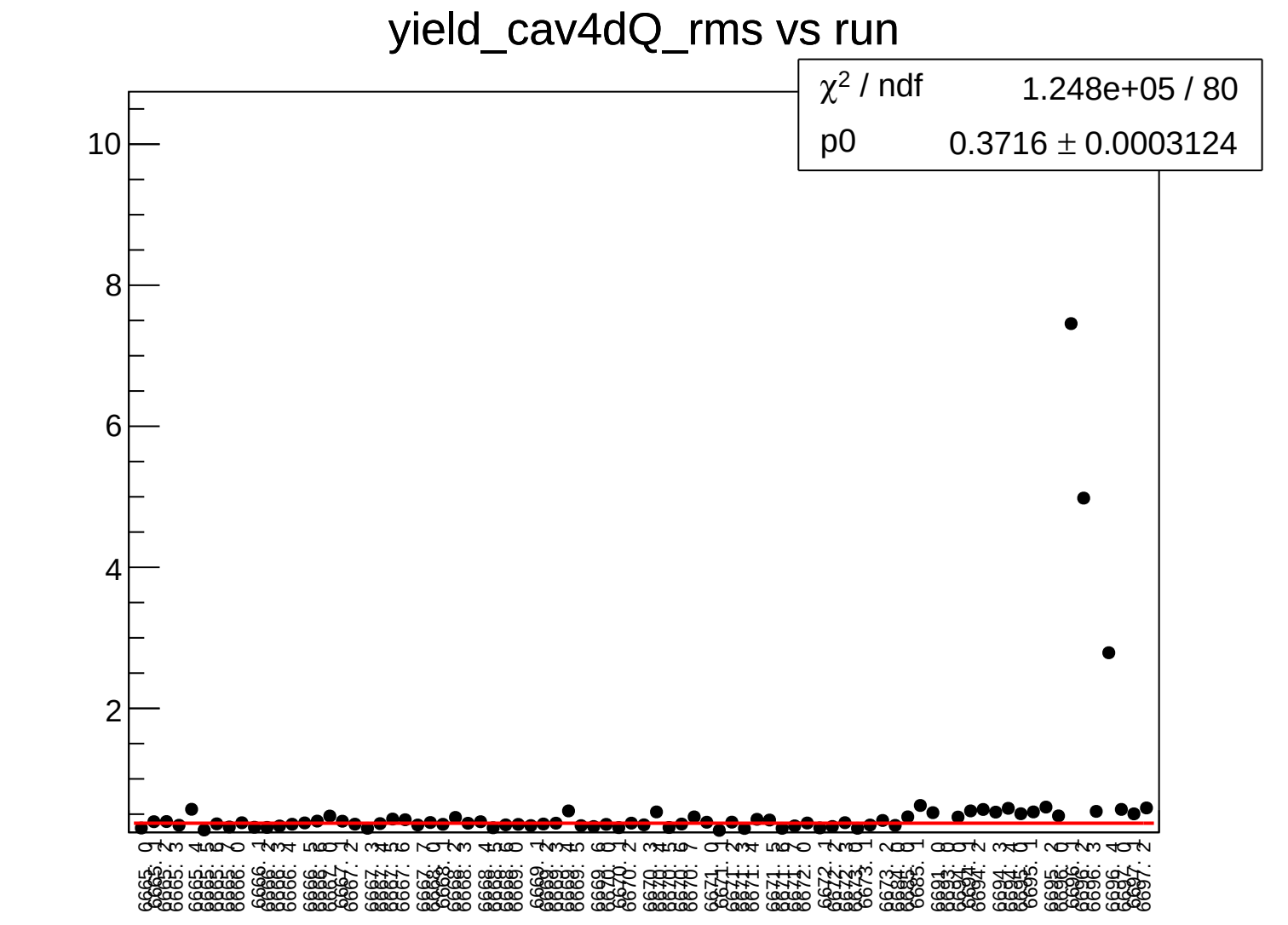

yield_cav4cQ_mean vs run
χ² / ndf 1.065e+07 / 80
p0 149.8 ± 0.0005285
pull
Entries 81
Mean 210.1
Std Dev 160.6

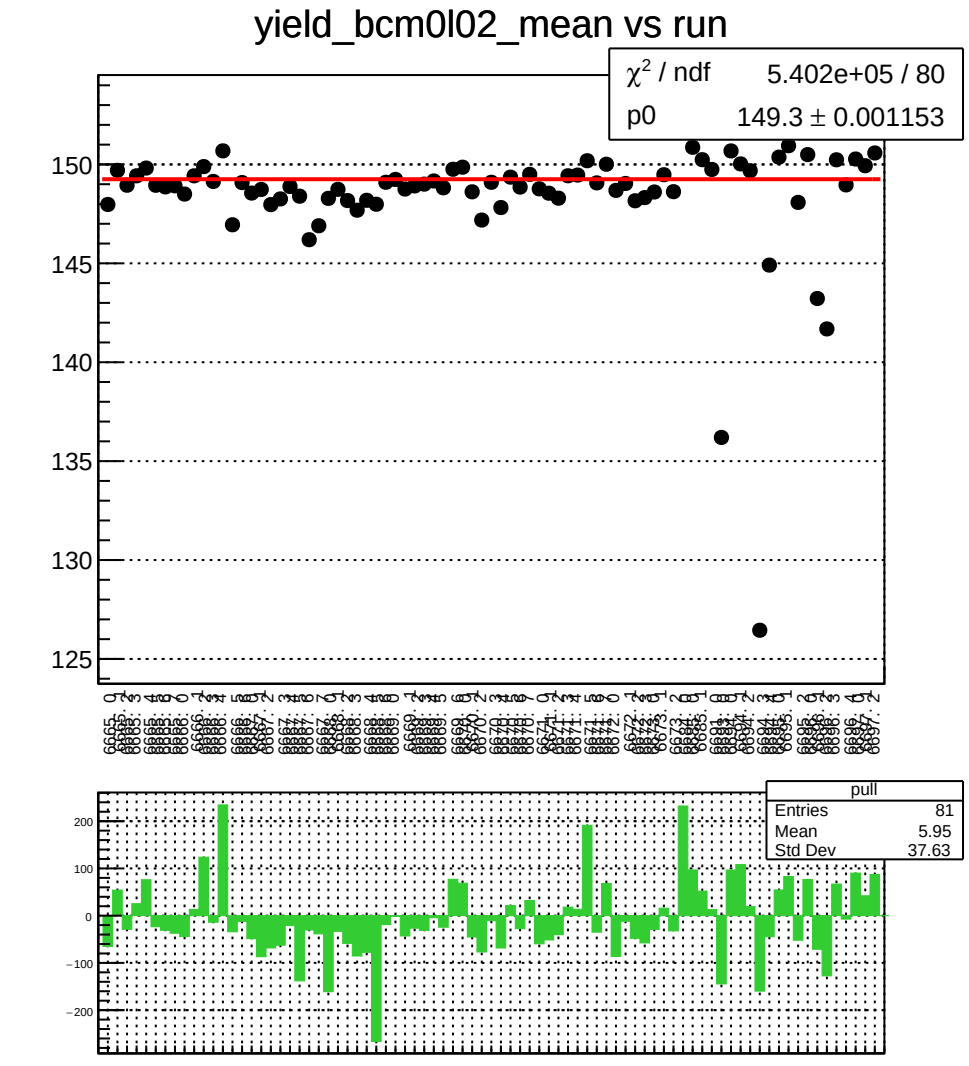

pull1D
Entries 81
Mean 0
Std Dev 0

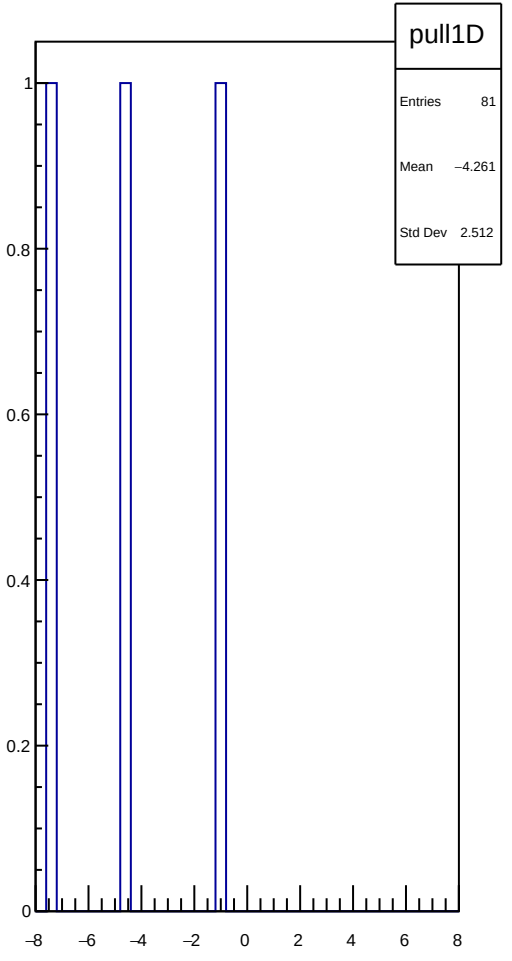

yield_cav4cQ_rms vs run
χ² / ndf 1.592e+05 / 80
p0 0.4391 ± 0.0003737
10
8
6
4
2

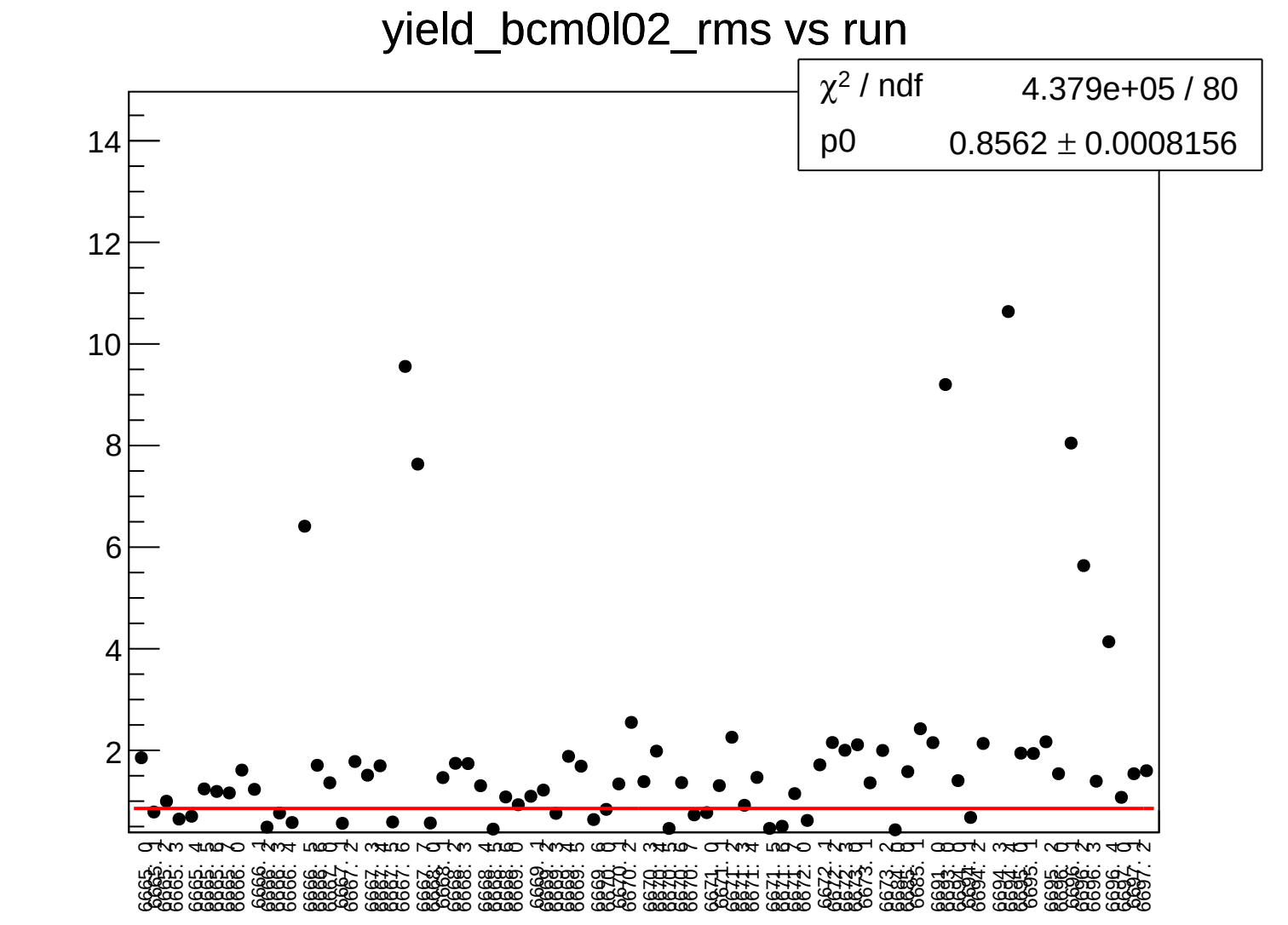

yield_cav4dQ_mean vs run
χ² / ndf 1.442e+06 / 80
p0 149.8 ± 0.0004418
152
150
148
146
144
142
140
138
136
pull
Entries 81
Mean 190.2
Std Dev 142.1
300
200
100
0
−100
−200

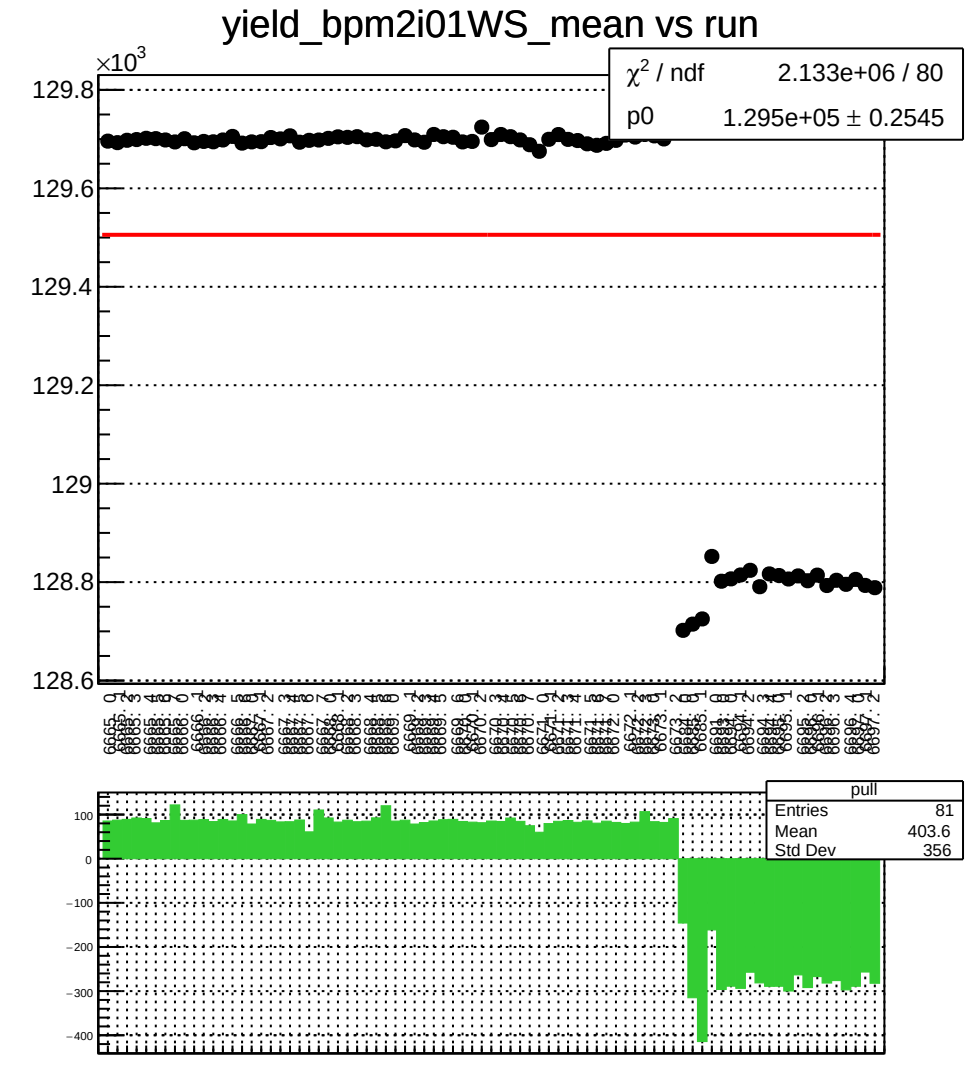

pull1D
Entries 81
Mean 0.6443
Std Dev 3.56
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

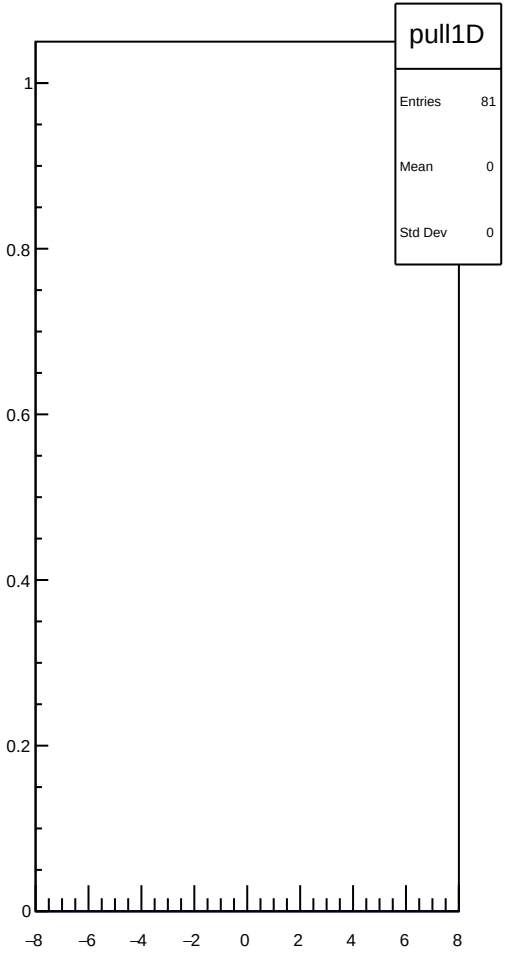

yield_cav4dQ_rms vs run
χ² / ndf 1.248e+05 / 80
p0 0.3716 ± 0.0003124
10
8
6
4
2

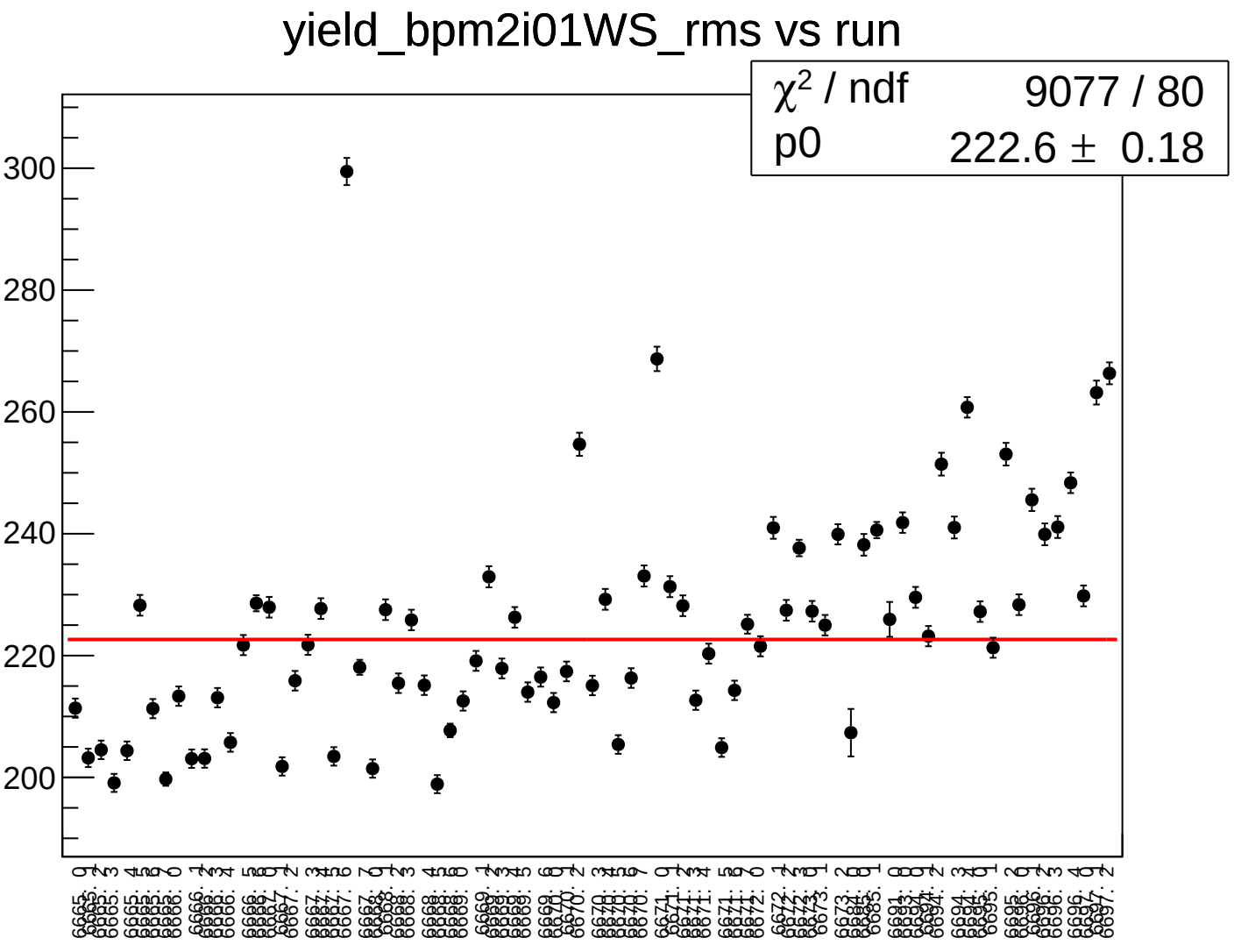

yield_bcm0l02_mean vs run
χ² / ndf 5.402e+05 / 80
p0 149.3 ± 0.001153
150
145
140
135
130
125
pull
Entries 81
Mean 5.95
Std Dev 37.63
200
100
0
−100
−200

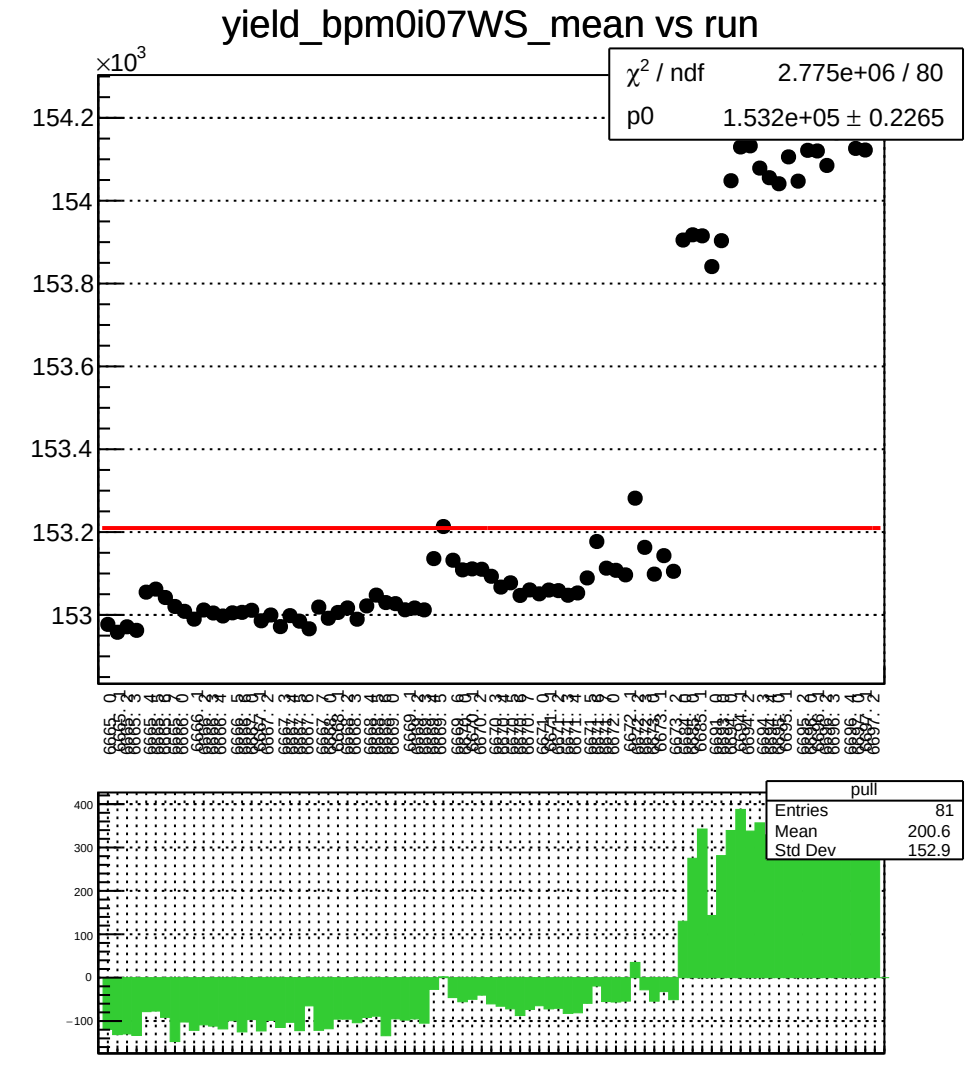

pull1D
Entries 81
Mean −4.261
Std Dev 2.512
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

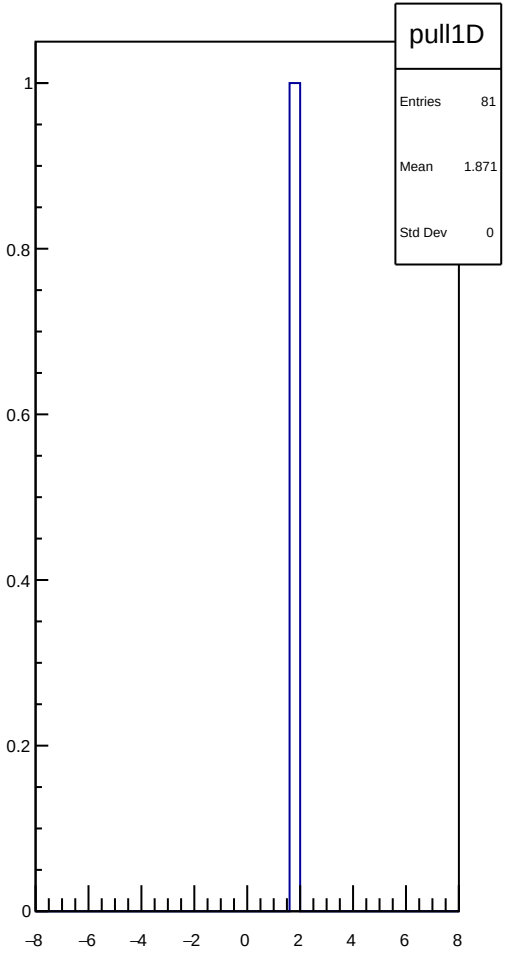

yield_bcm0l02_rms vs run
χ² / ndf 4.379e+05 / 80
p0 0.8562 ± 0.0008156
14
12
10
8
6
4
2

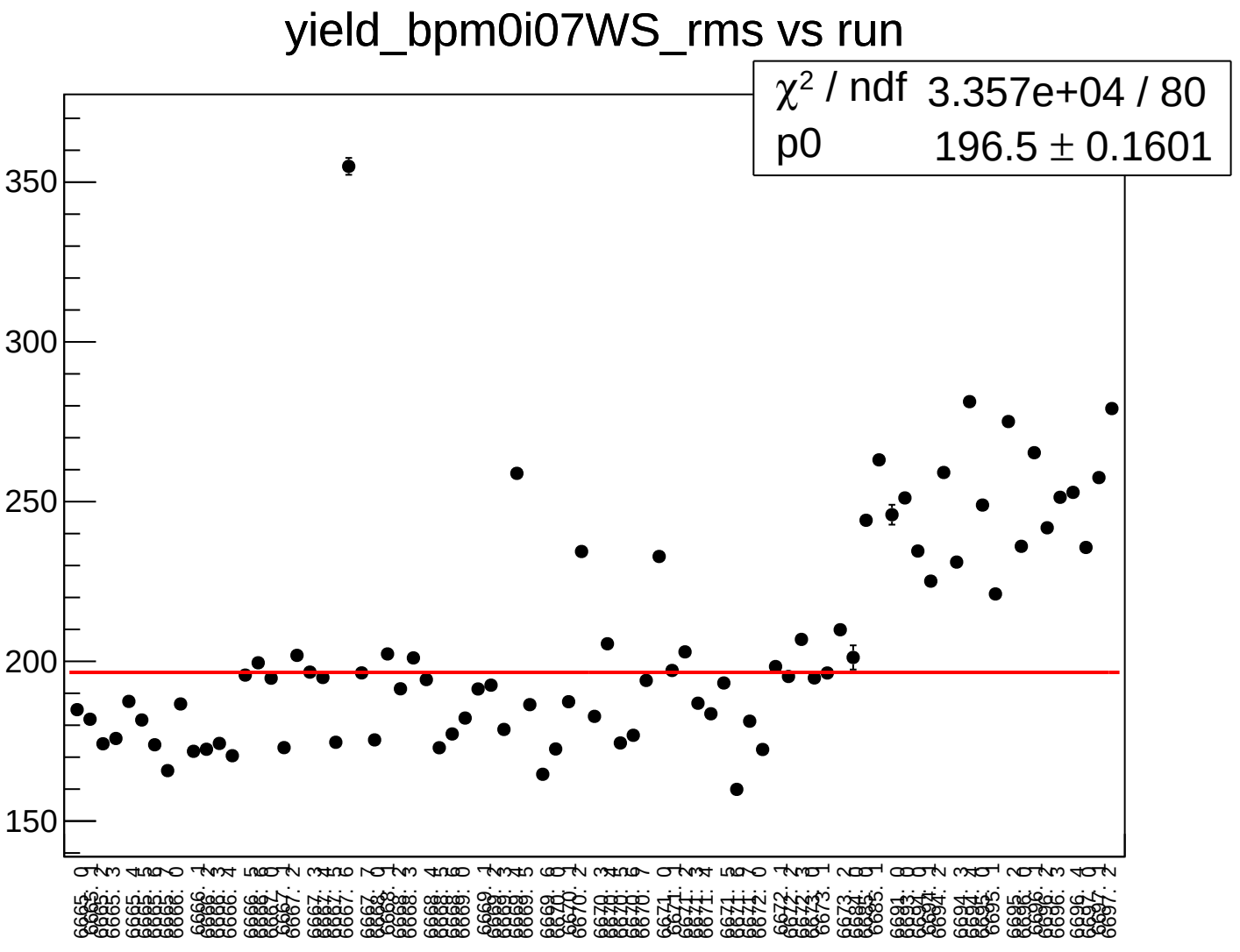

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.133e+06 / 80
p0 1.295e+05 ± 0.2545
129.8
129.6
129.4
129.2
129
128.8
128.6
pull
Entries 81
Mean 403.6
Std Dev 356
100
0
−100
−200
−300
−400

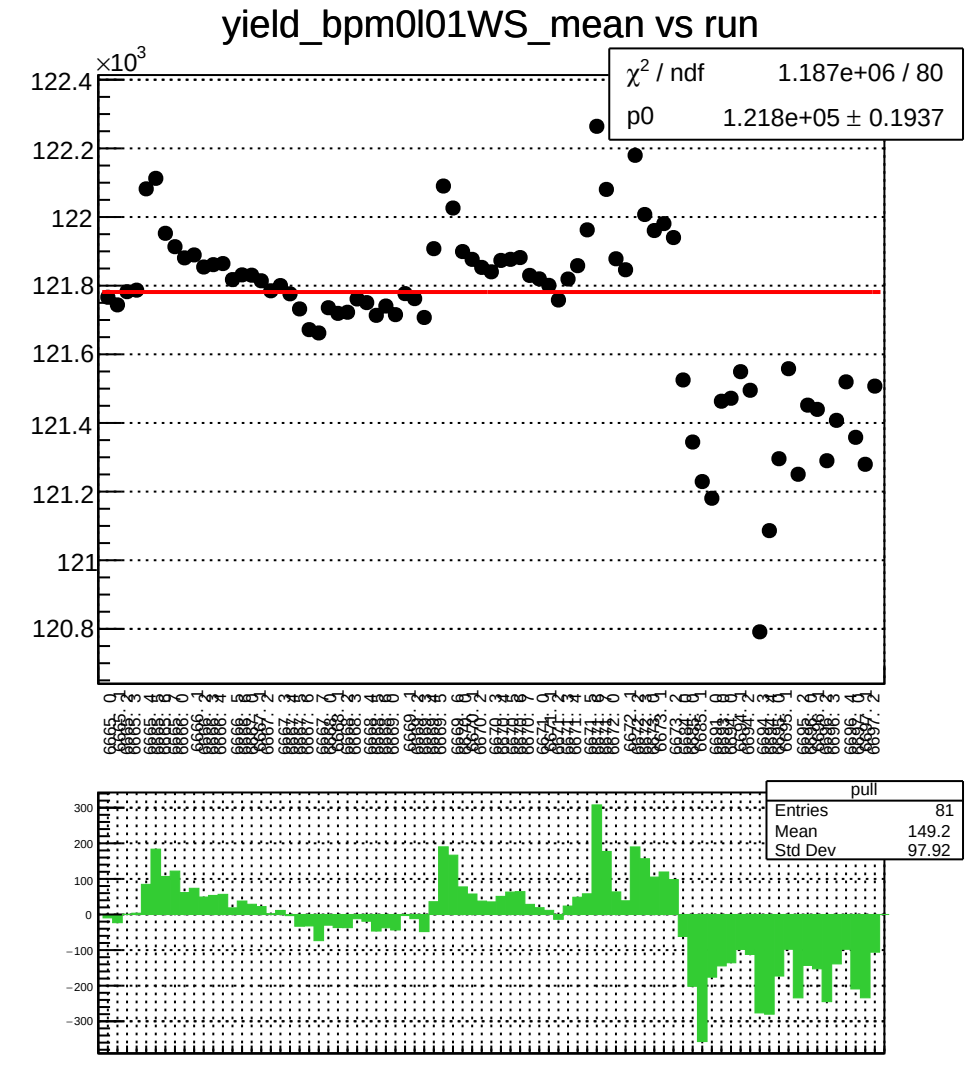

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

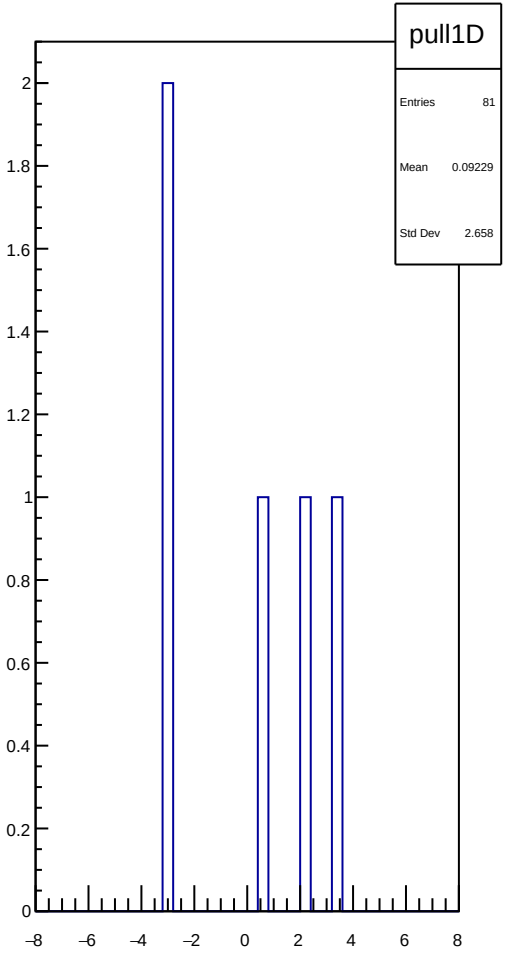

yield_bpm2i01WS_rms vs run
χ² / ndf 9077 / 80
p0 222.6 ± 0.18
300
280
260
240
220
200

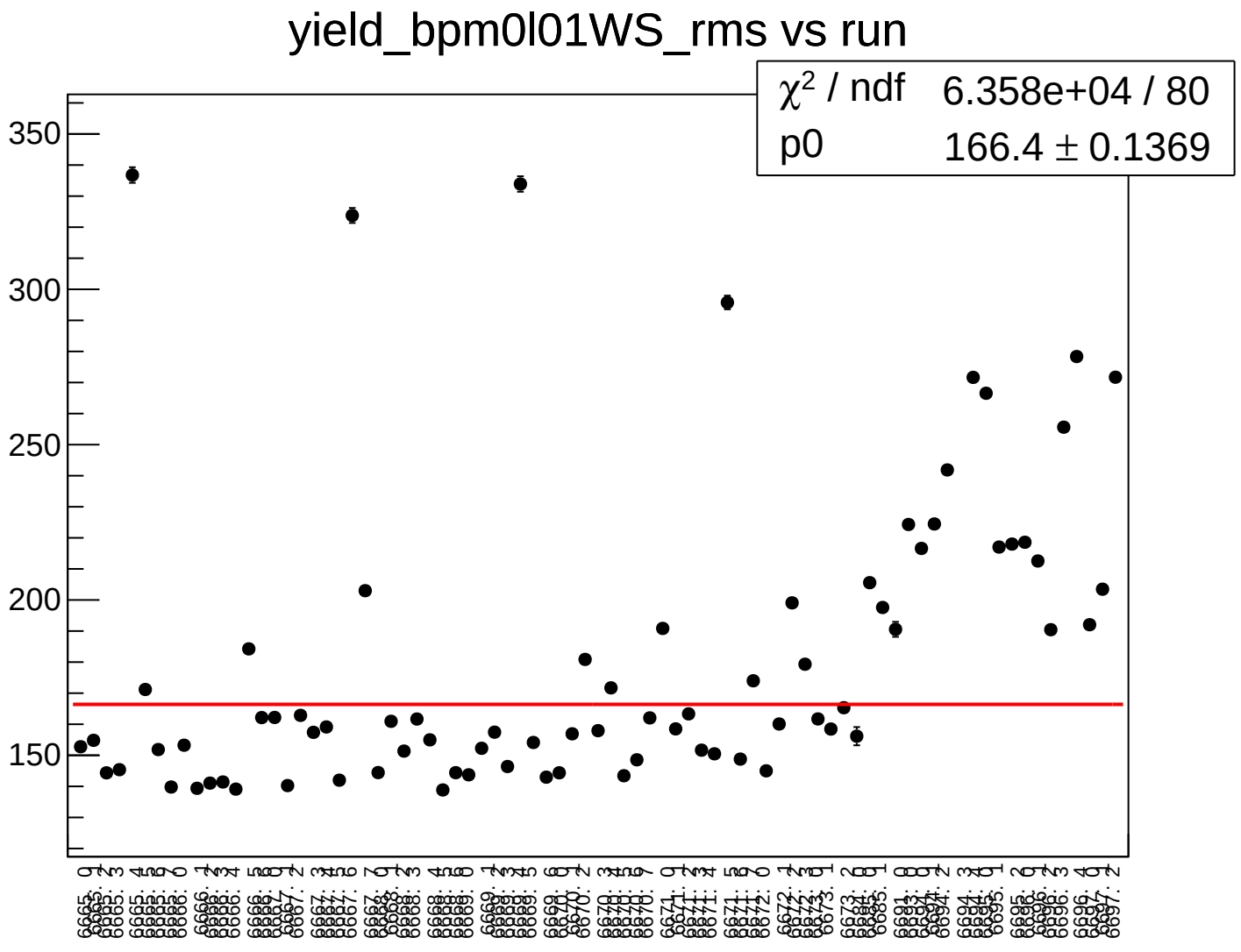

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.775e+06 / 80
p0 1.532e+05 ± 0.2265
154.2
154
153.8
153.6
153.4
153.2
153
pull
Entries 81
Mean 200.6
Std Dev 152.9
400
300
200
100
0
−100

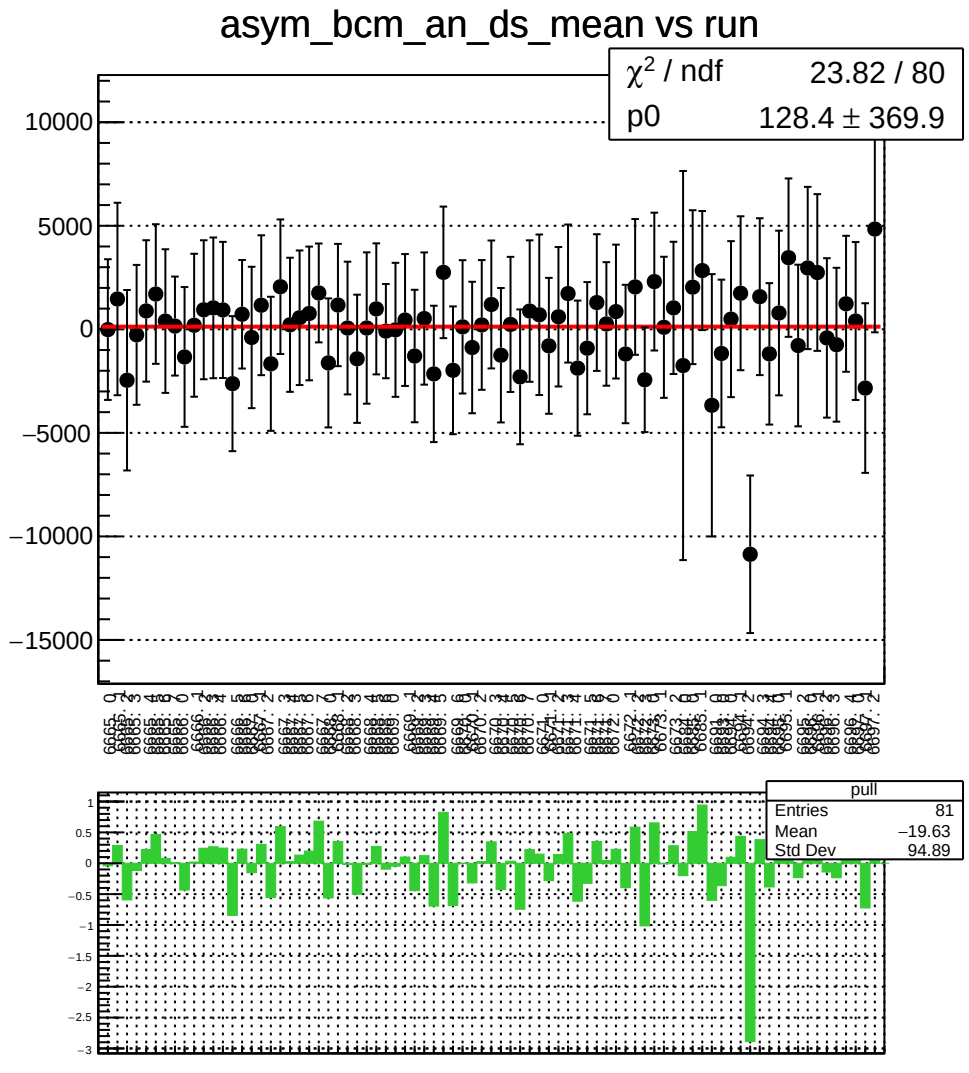

pull1D
Entries 81
Mean 1.871
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

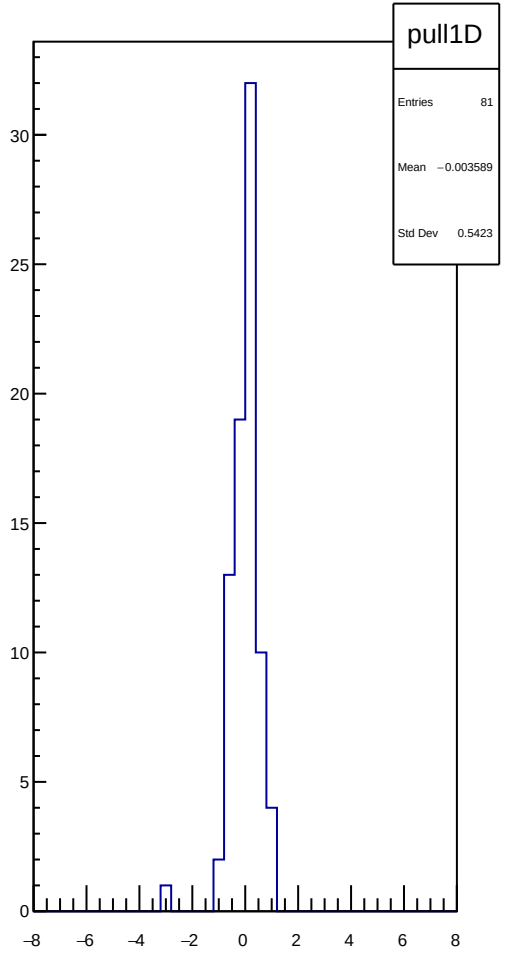

yield_bpm0i07WS_rms vs run
χ² / ndf 3.357e+04 / 80
p0 196.5 ± 0.1601
350
300
250
200
150

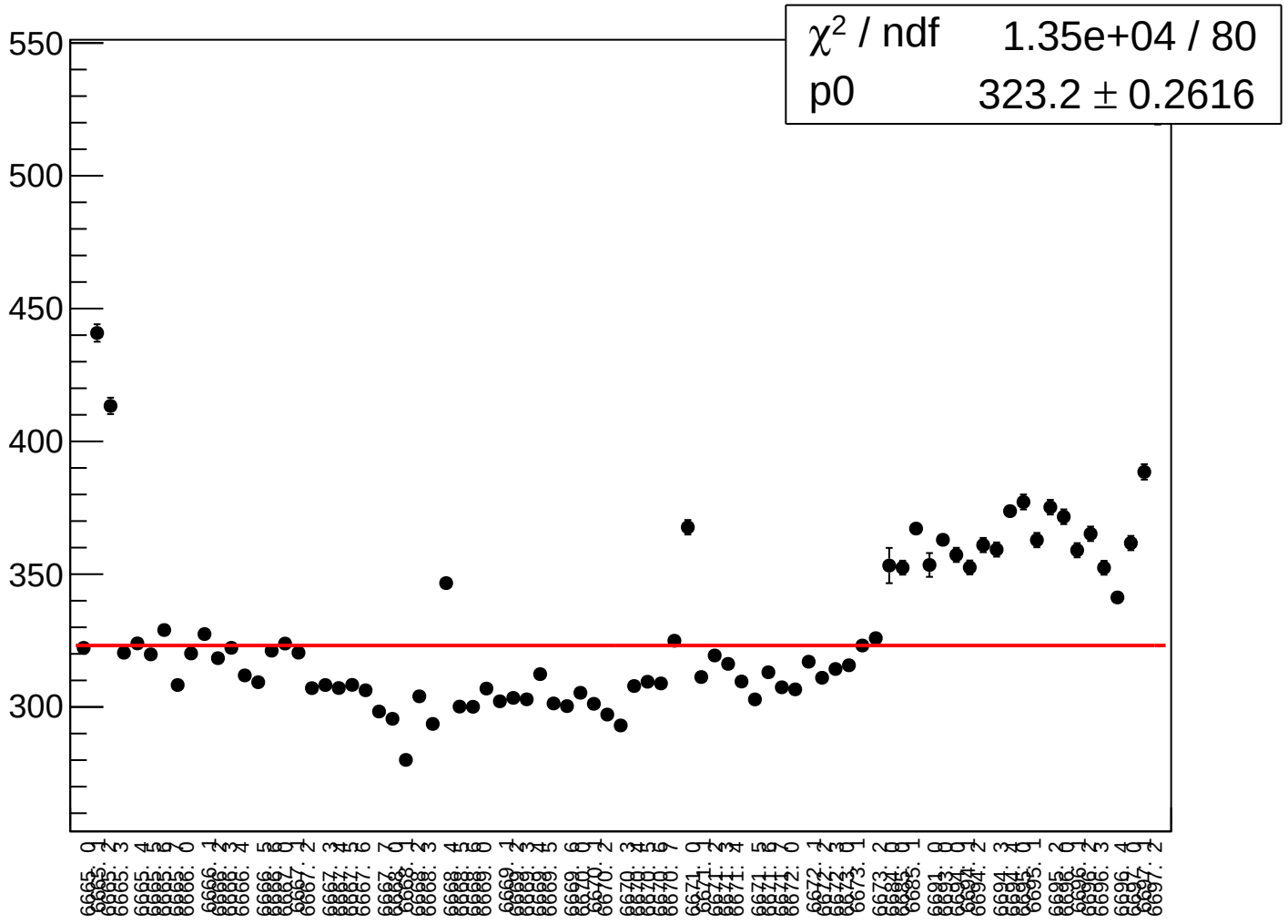

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.187e+06 / 80
p0 1.218e+05 ± 0.1937
122.4
122.2
122
121.8
121.6
121.4
121.2
121
120.8
pull
Entries 81
Mean 149.2
Std Dev 97.92
300
200
100
0
−100
−200
−300

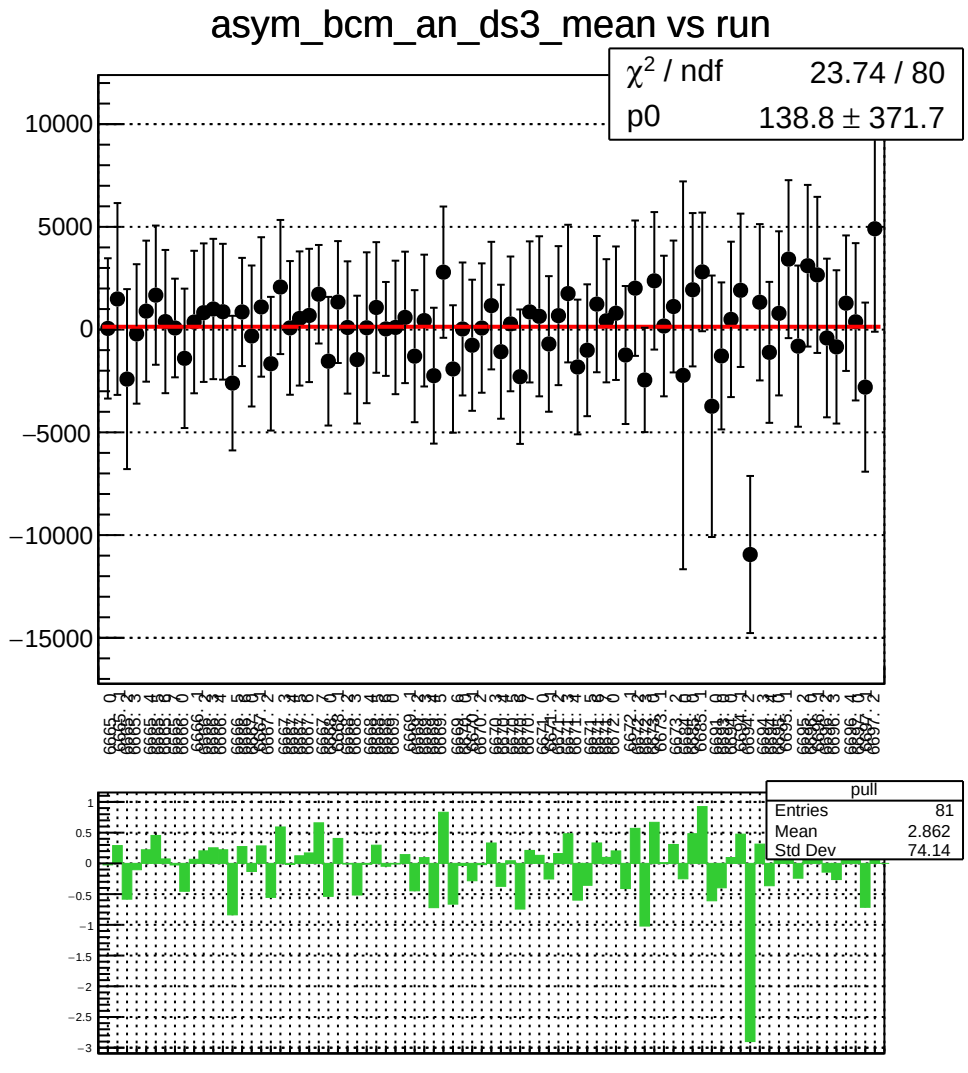

pull1D
Entries 81
Mean 0.09229
Std Dev 2.658
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

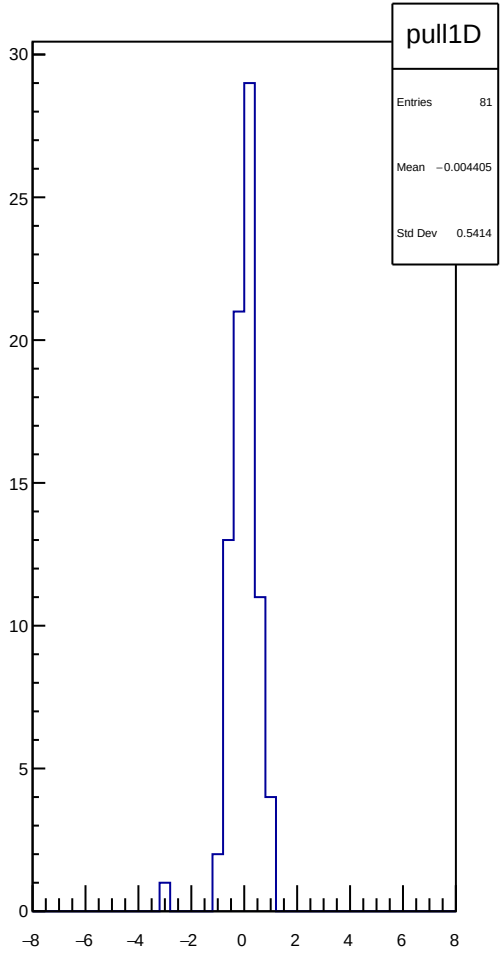

yield_bpm0l01WS_rms vs run
χ² / ndf 6.358e+04 / 80
p0 166.4 ± 0.1369
350
300
250
200
150

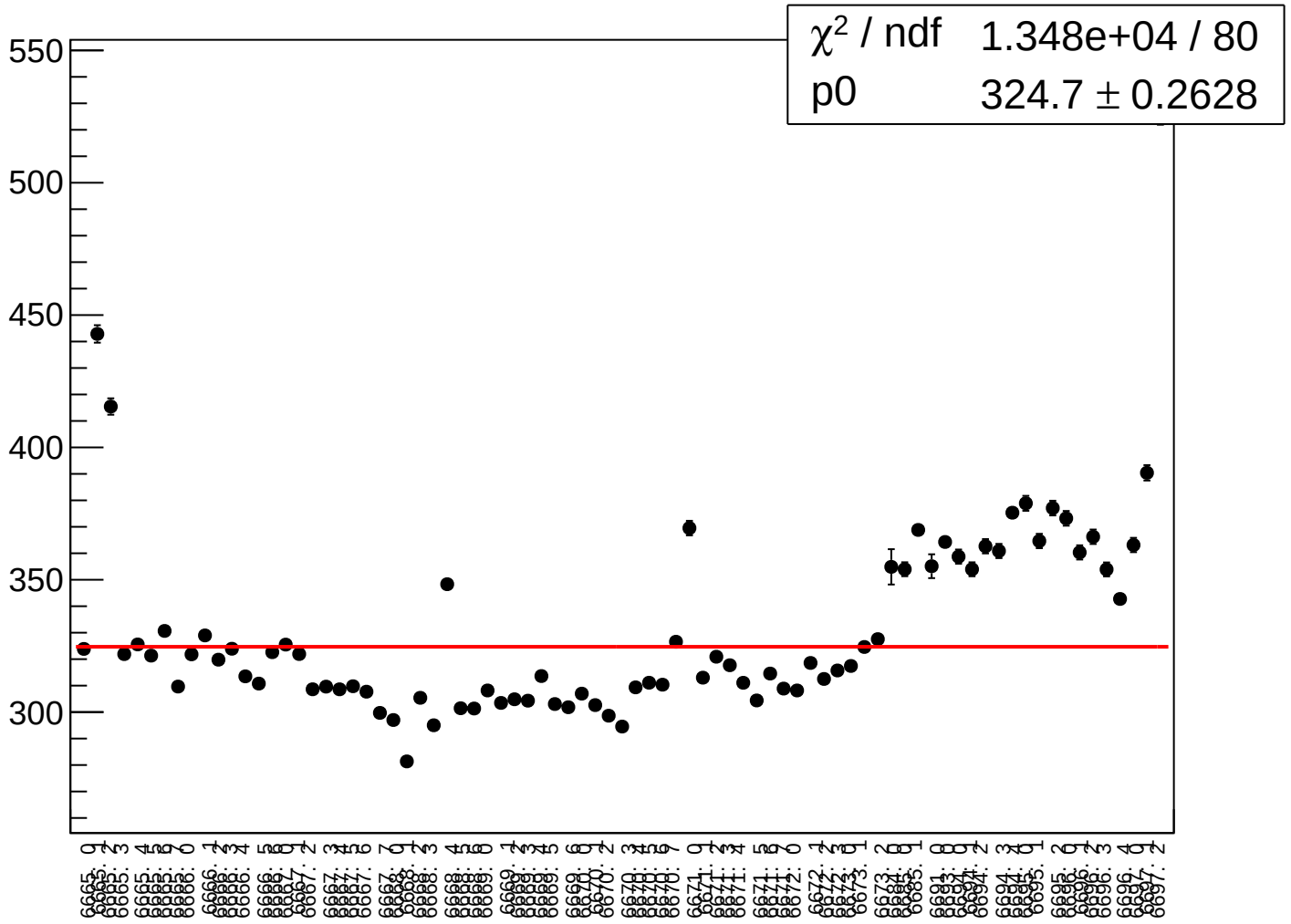

asym_bcm_an_ds_mean vs run
χ² / ndf 23.82 / 80
p0 128.4 ± 369.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −19.63
Std Dev 94.89
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

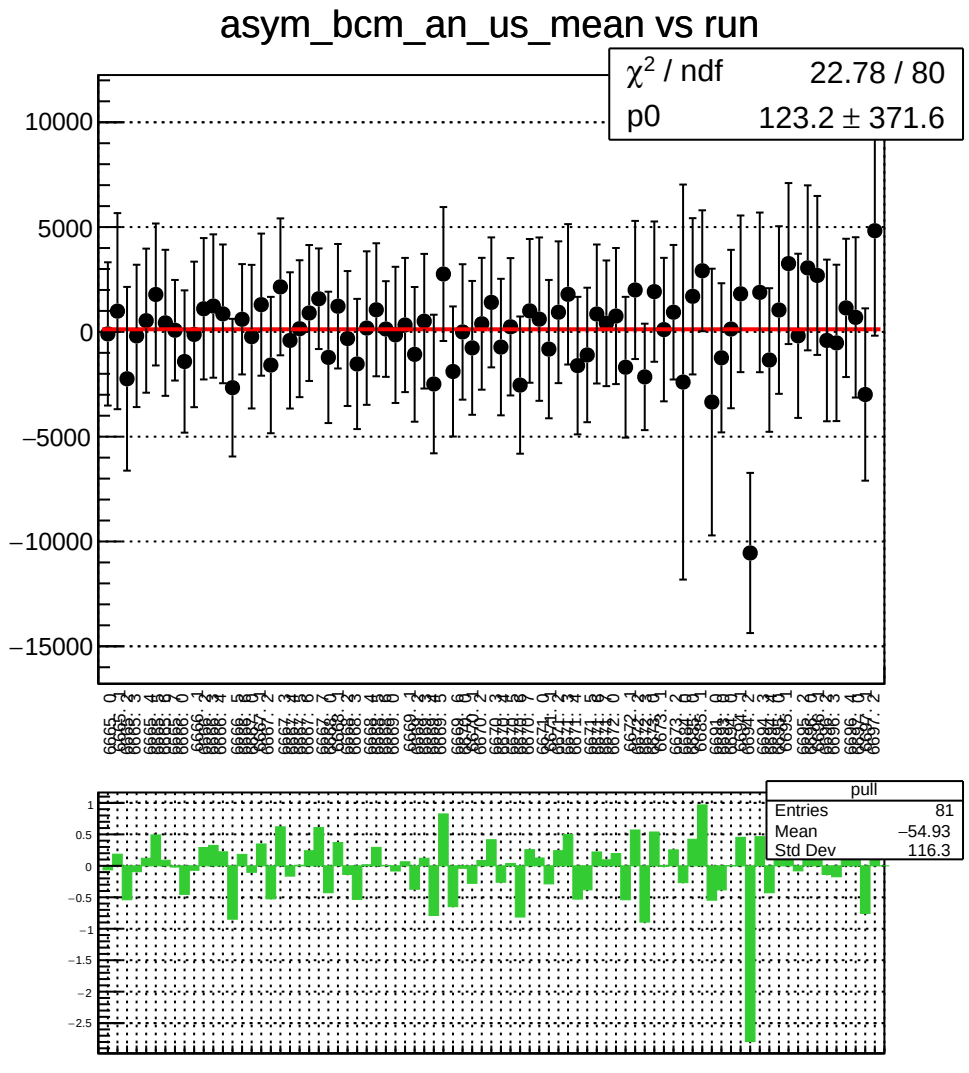

pull1D
Entries 81
Mean −0.003589
Std Dev 0.5423
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

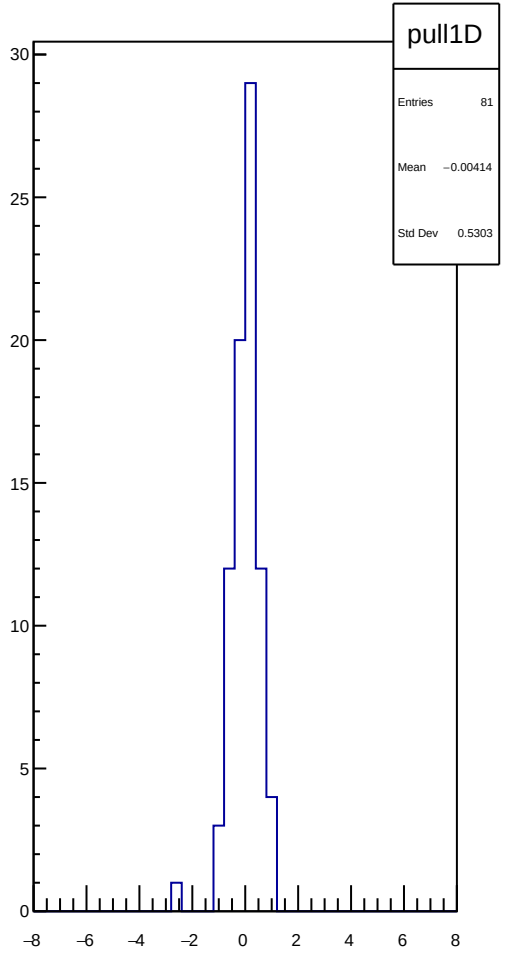

asym_bcm_an_ds_rms vs run
χ² / ndf 1.35e+04 / 80
p0 323.2 ± 0.2616
550
500
450
400
350
300


asym_bcm_an_ds3_mean vs run
χ² / ndf 23.74 / 80
p0 138.8 ± 371.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 2.862
Std Dev 74.14
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 81
Mean −0.004405
Std Dev 0.5414
30
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 1.348e+04 / 80
p0 324.7 ± 0.2628
550
500
450
400
350
300


asym_bcm_an_us_mean vs run
χ² / ndf 22.78 / 80
p0 123.2 ± 371.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −54.93
Std Dev 116.3
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 81
Mean −0.00414
Std Dev 0.5303
30
25
20
15
10
5
0
−8
−6
−4
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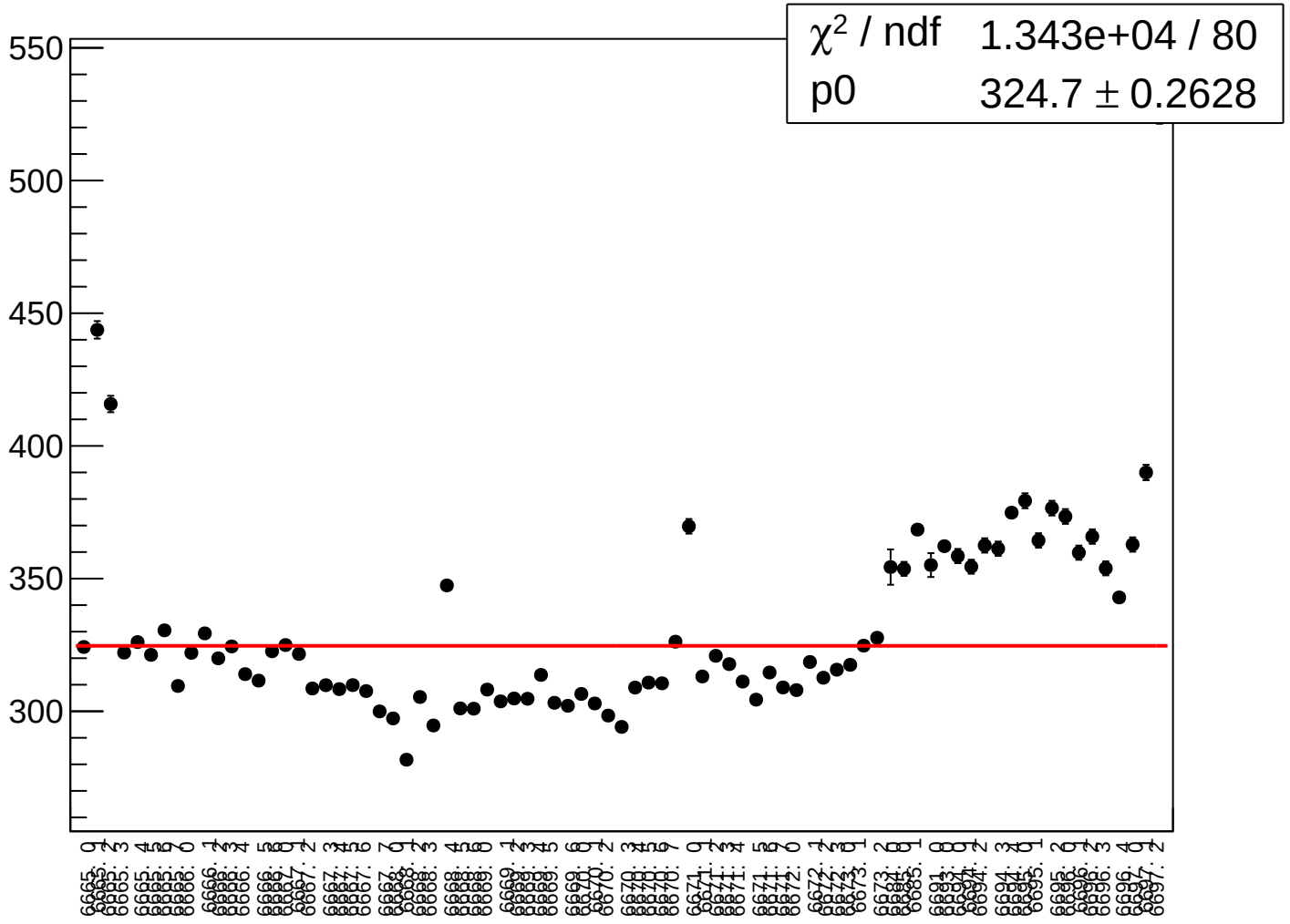
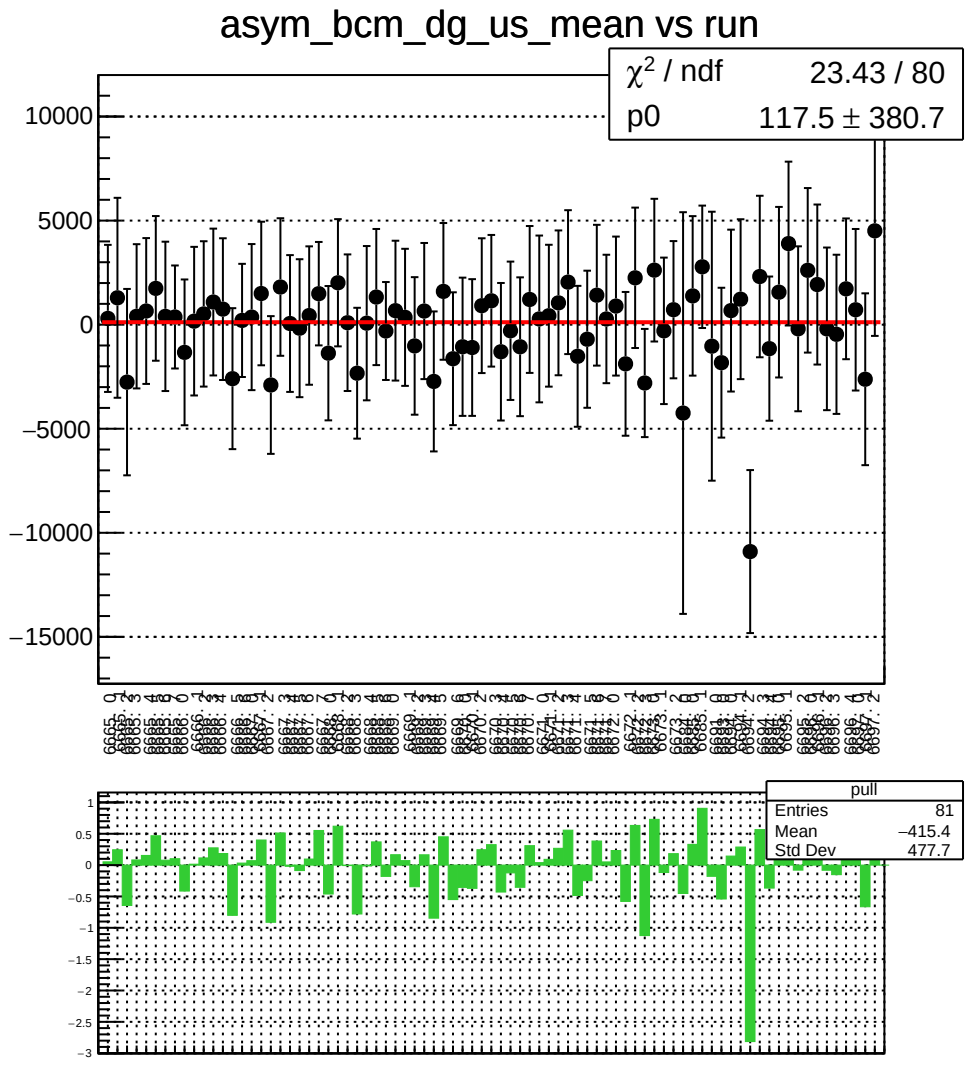
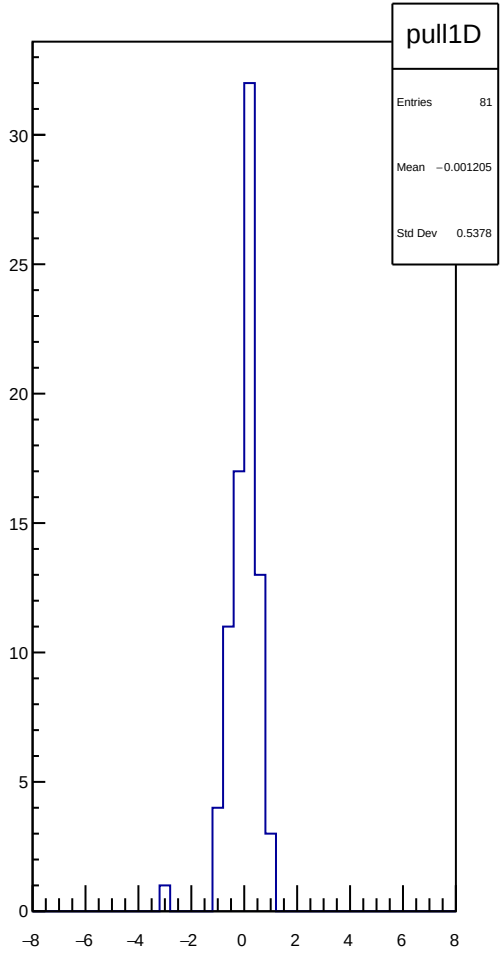
0
2
4
6
8


asym_bcm_an_us_rms vs run
χ² / ndf 1.343e+04 / 80
p0 324.7 ± 0.2628
550
500
450
400
350
300


asym_bcm_dg_us_mean vs run
χ² / ndf 23.43 / 80
p0 117.5 ± 380.7
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −415.4
Std Dev 477.7
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3


pull1D
Entries 81
Mean −0.001205
Std Dev 0.5378
30
25
20
15
10
5
0
−8
−6
−4
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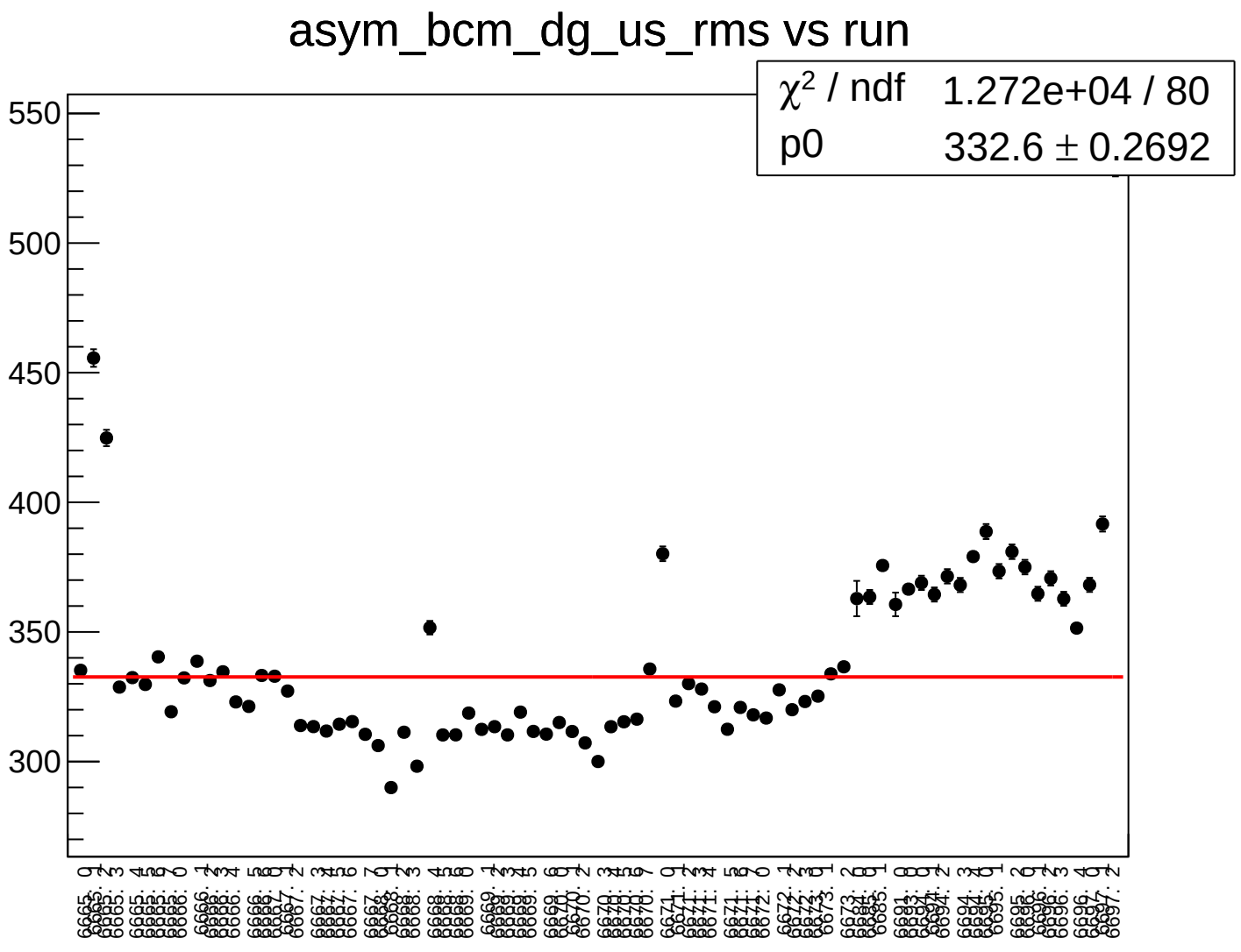
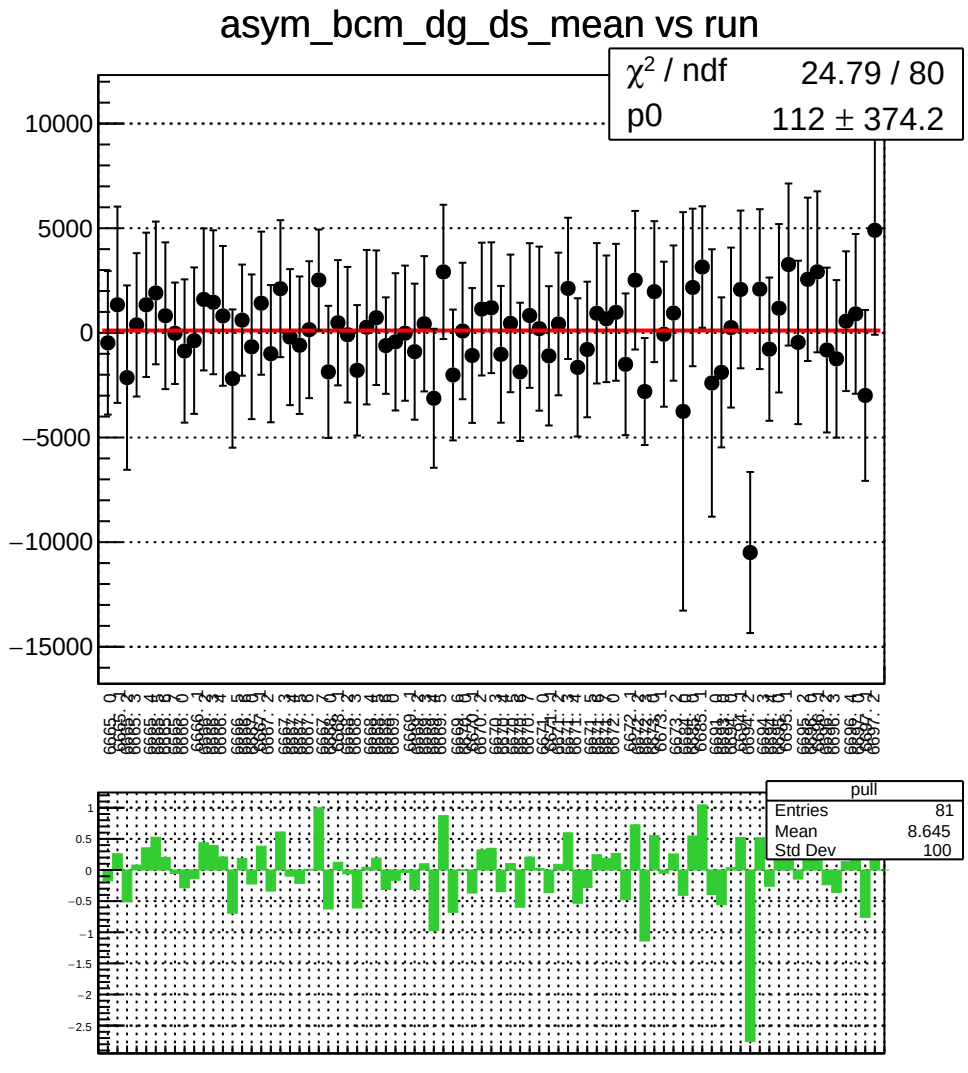
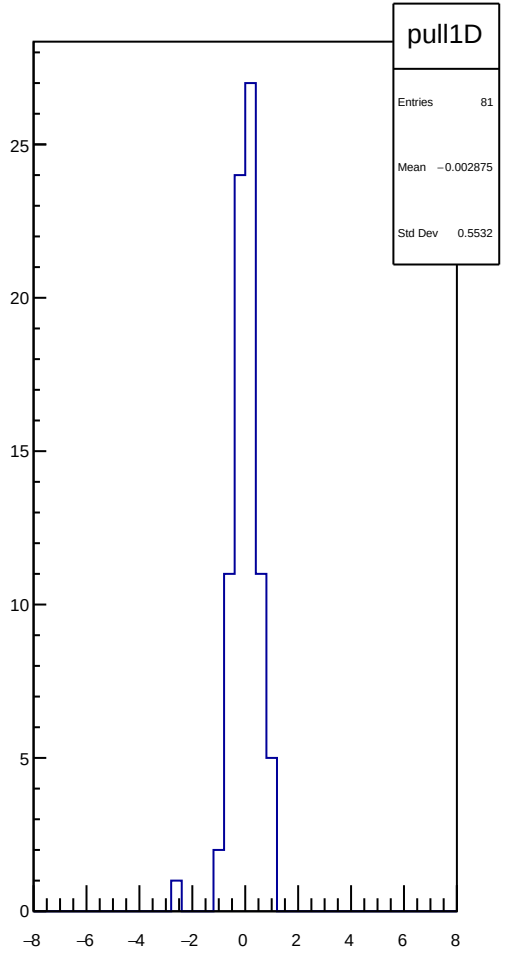
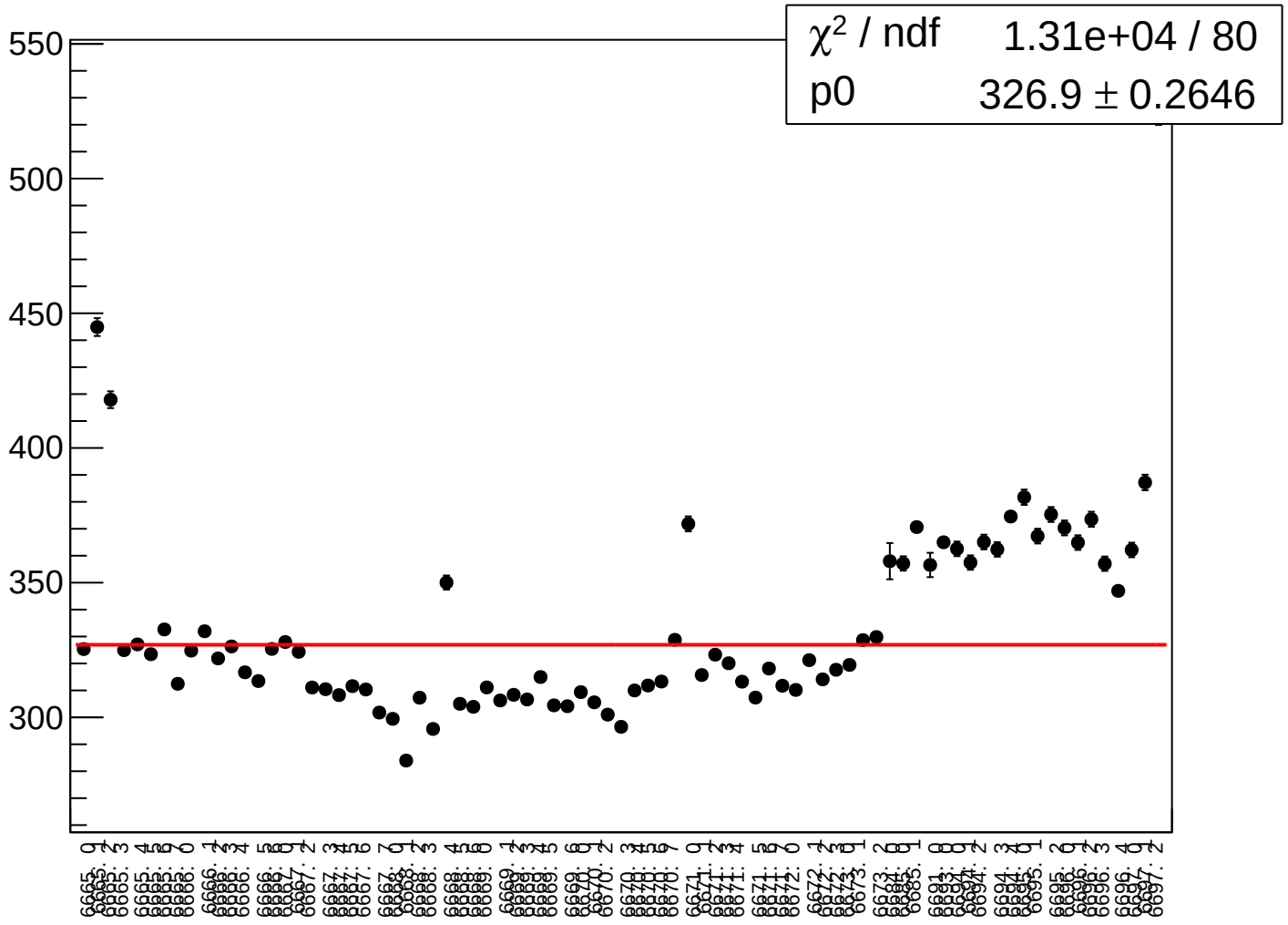
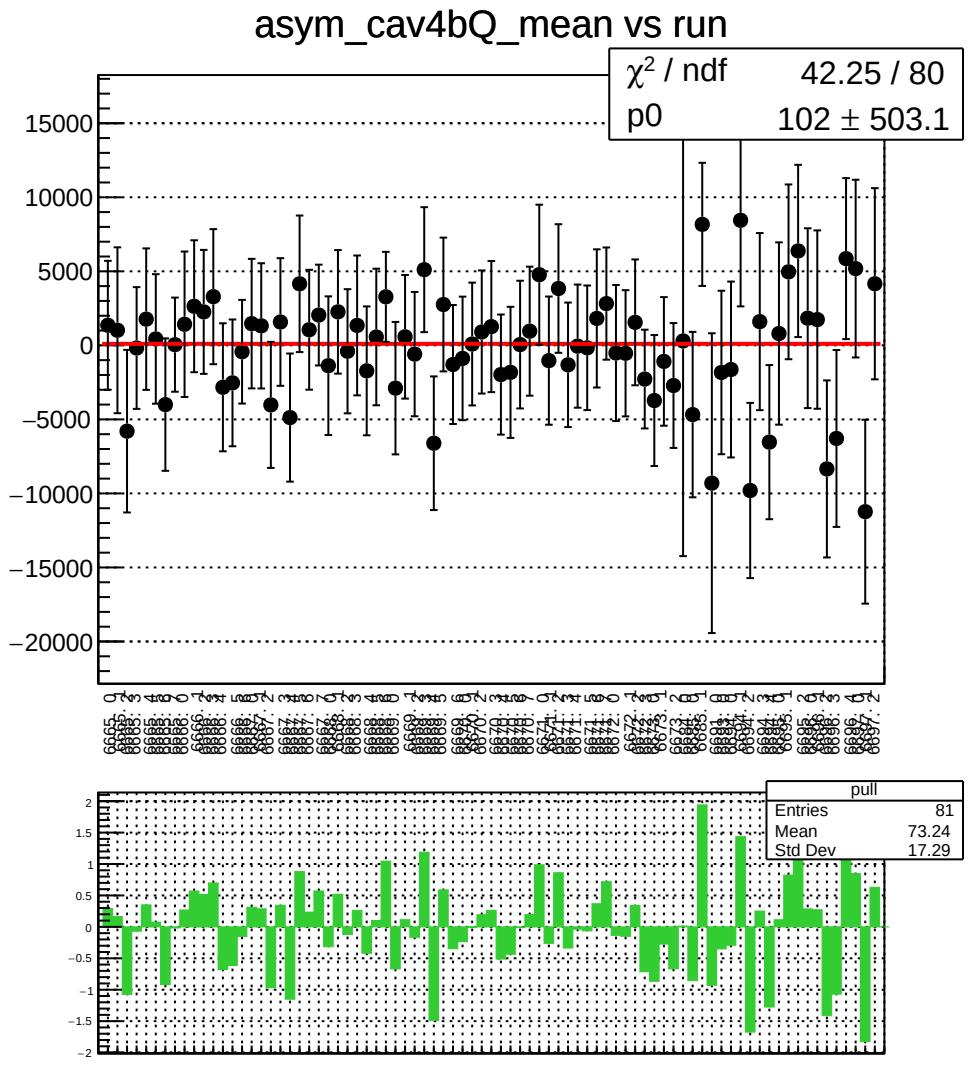
0
2
4
6
8

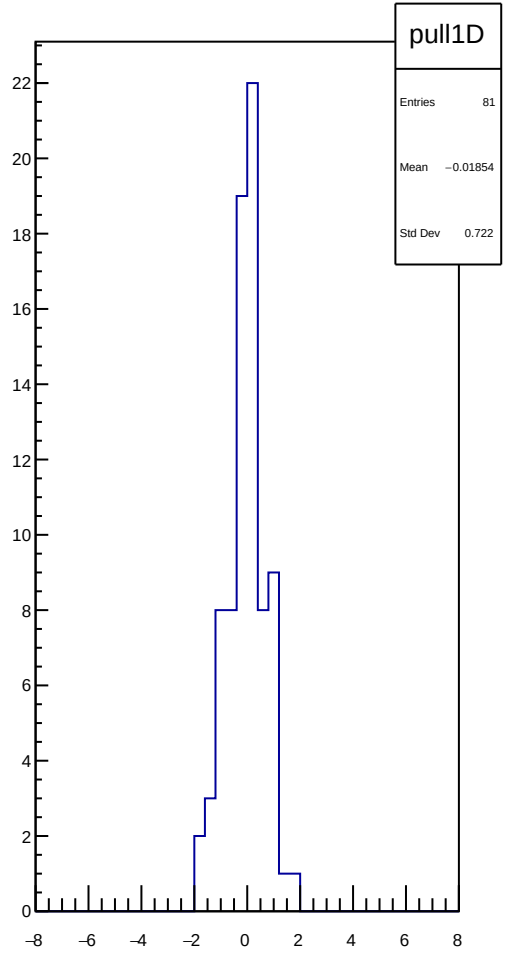

asym_bcm_dg_us_rms vs run
χ² / ndf 1.272e+04 / 80
p0 332.6 ± 0.2692
550
500
450
400
350
300

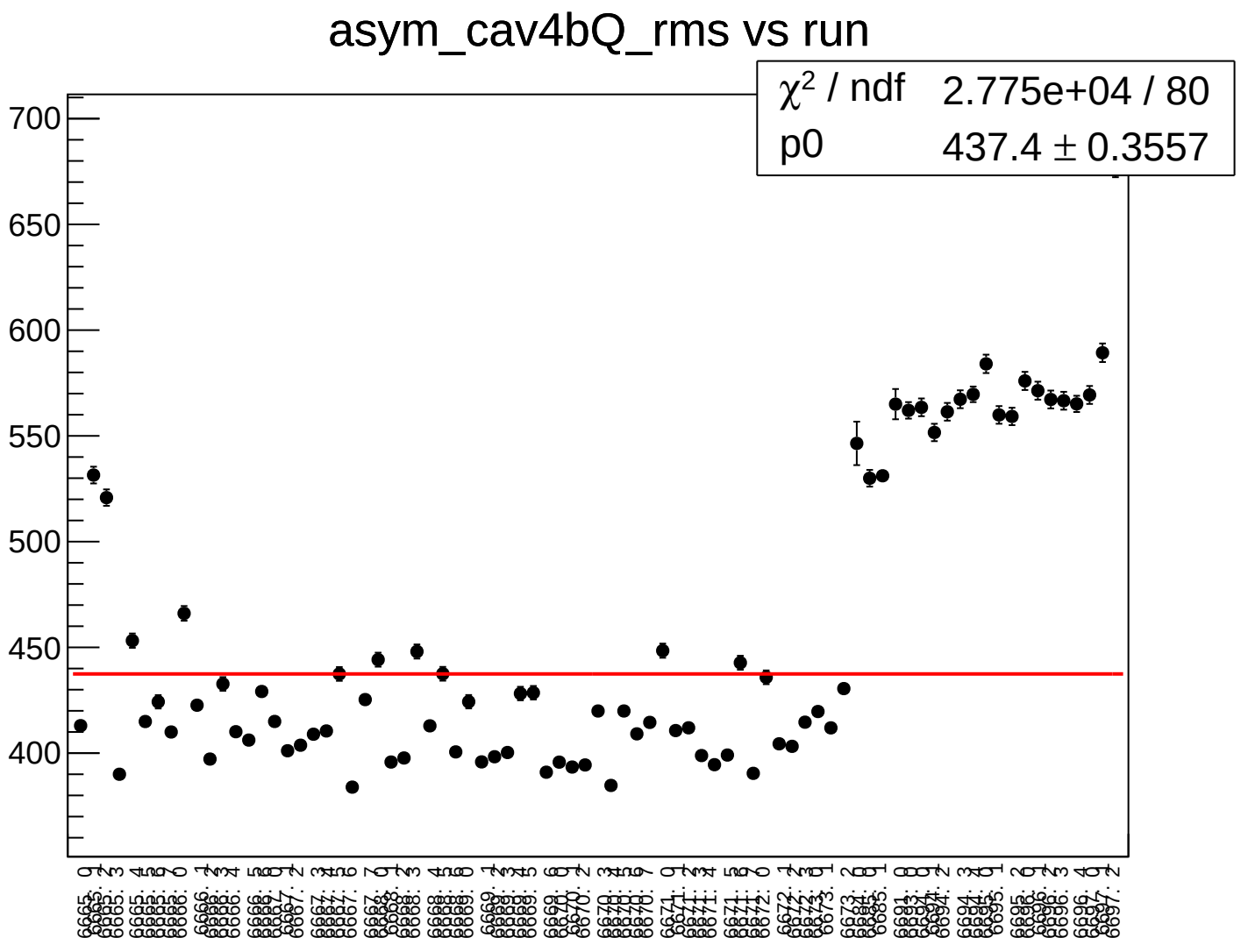

asym_bcm_dg_ds_mean vs run
χ² / ndf 24.79 / 80
p0 112 ± 374.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 8.645
Std Dev 100
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

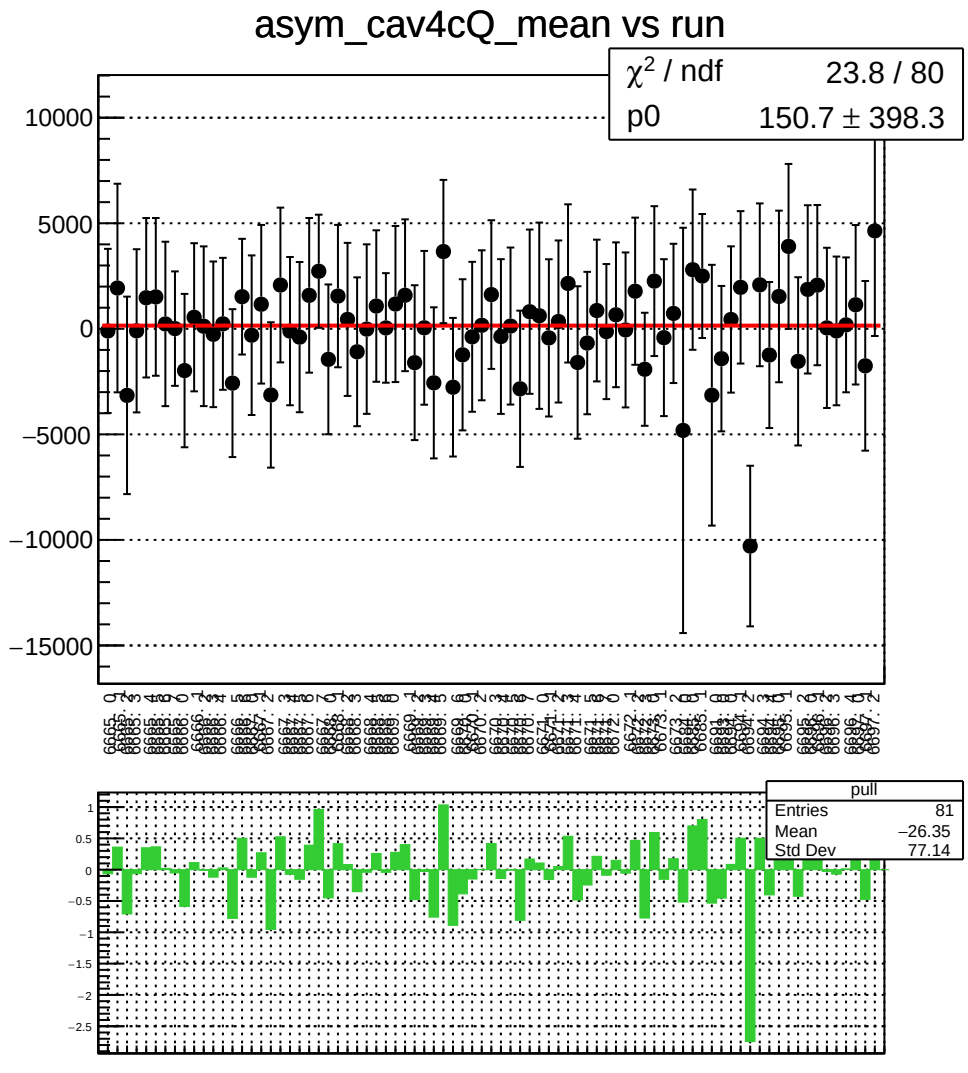

pull1D
Entries 81
Mean −0.002875
Std Dev 0.5532
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

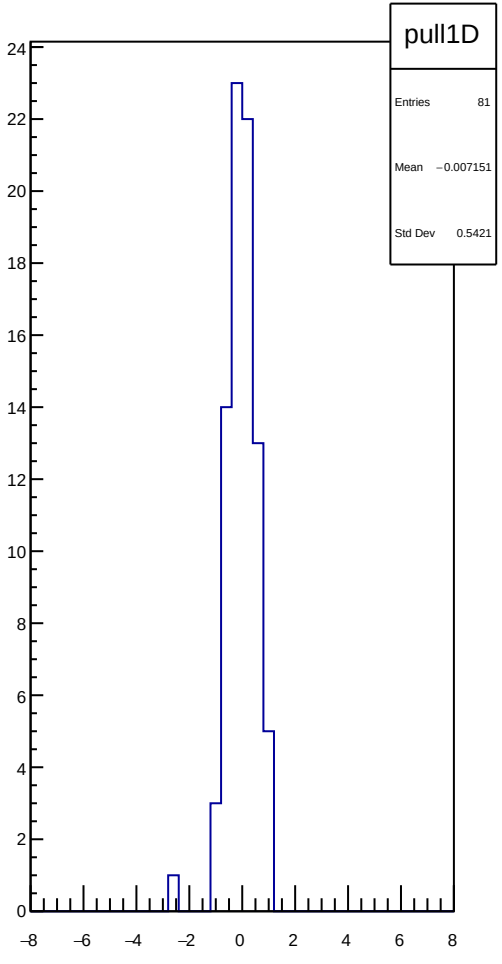

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.31e+04 / 80
p0 326.9 ± 0.2646
550
500
450
400
350
300

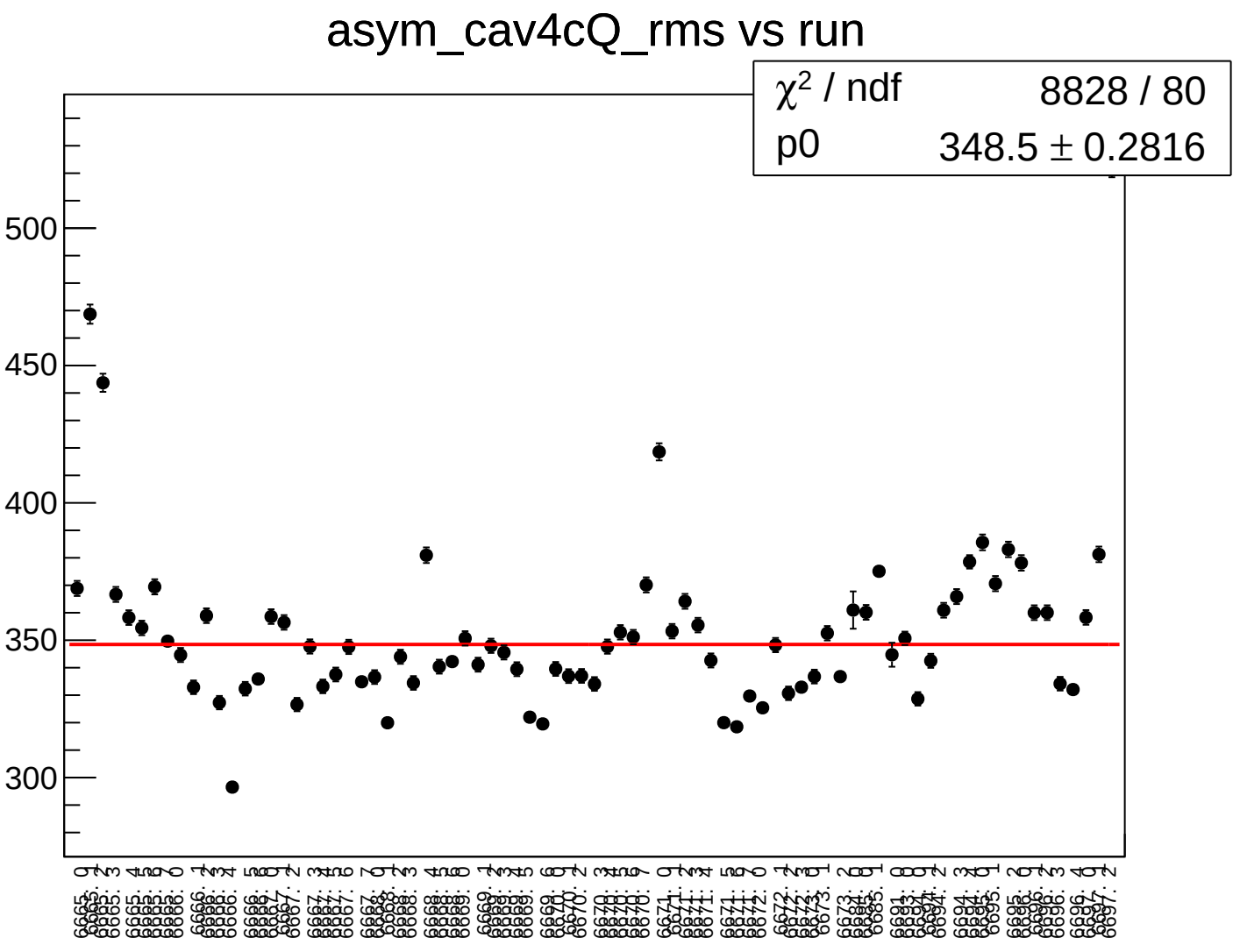

asym_cav4bQ_mean vs run
χ² / ndf 42.25 / 80
p0 102 ± 503.1
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 81
Mean 73.24
Std Dev 17.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

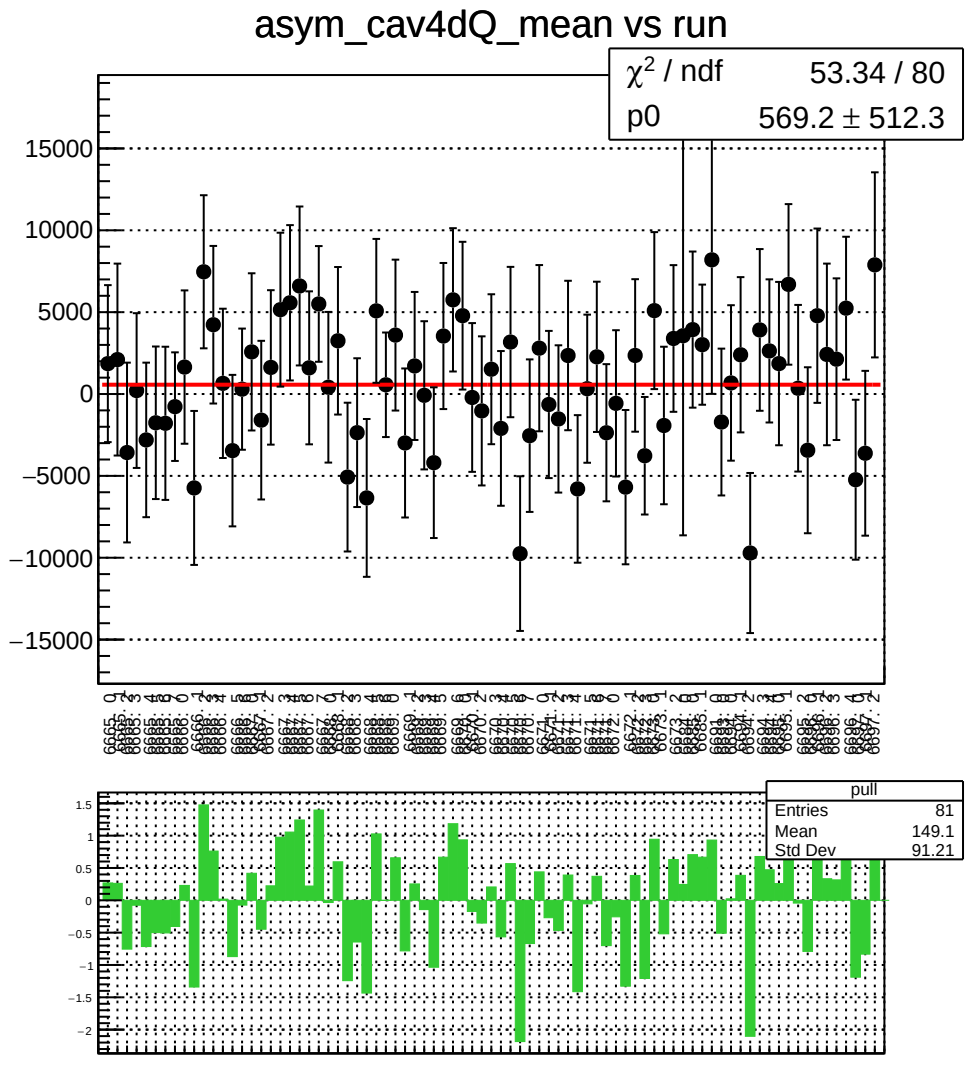

pull1D
Entries 81
Mean −0.01854
Std Dev 0.722
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

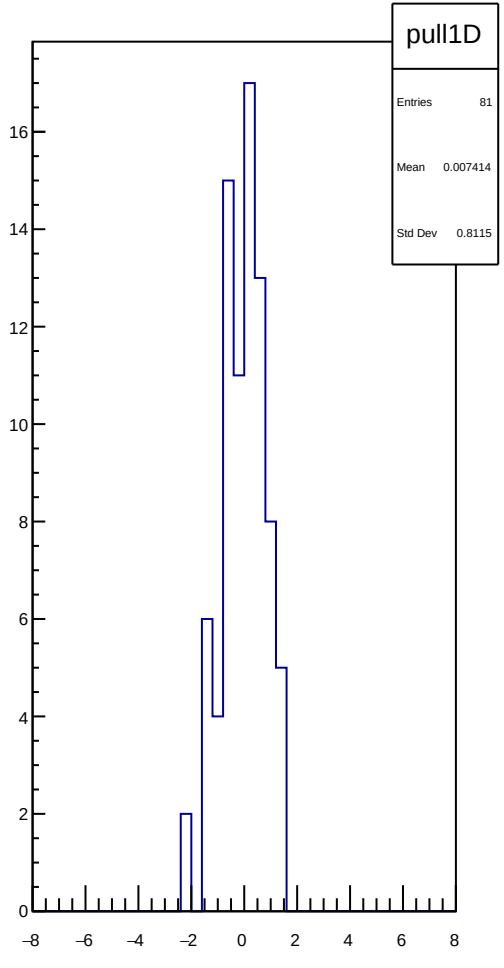

asym_cav4bQ_rms vs run
χ² / ndf 2.775e+04 / 80
p0 437.4 ± 0.3557
700
650
600
550
500
450
400

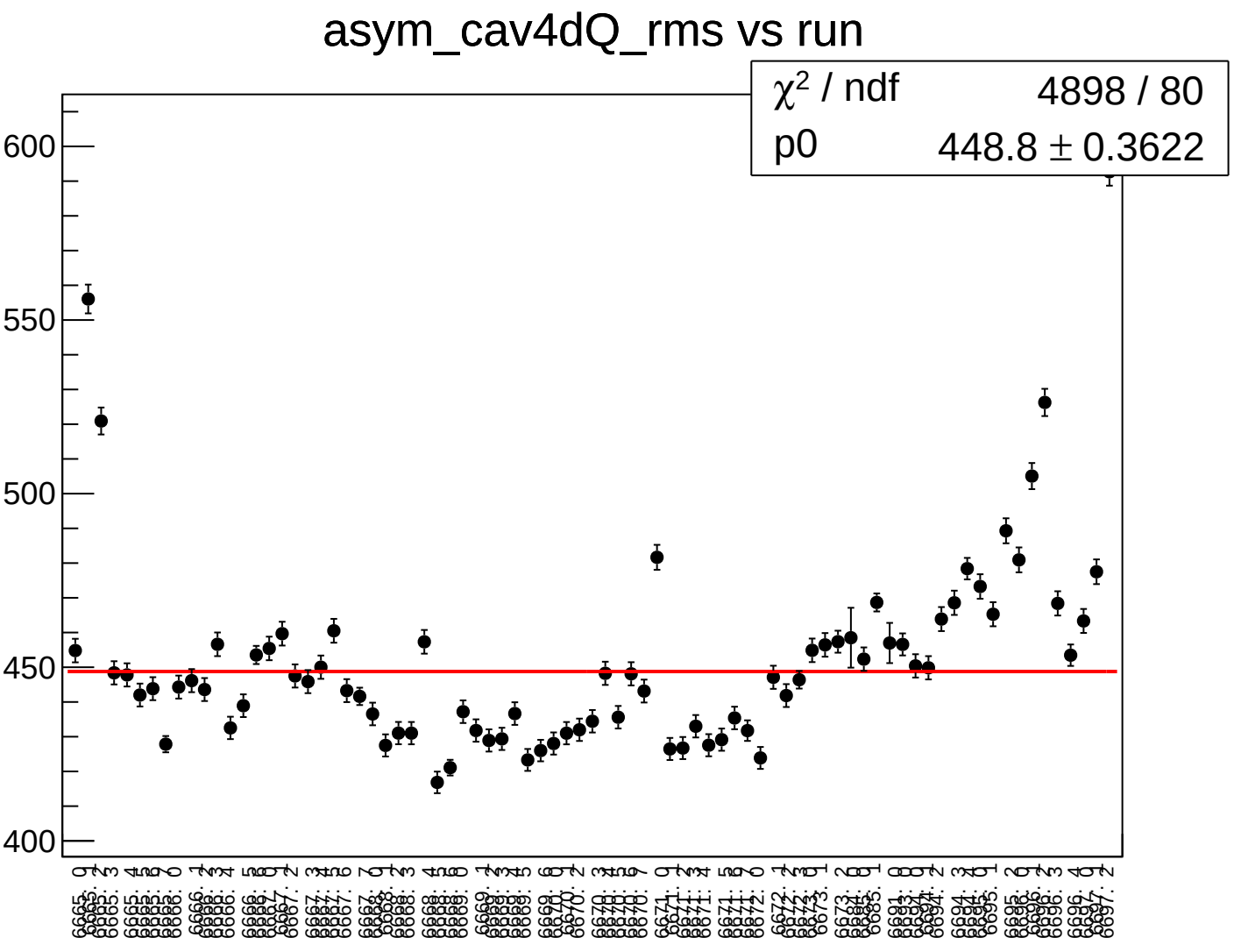

asym_cav4cQ_mean vs run
χ² / ndf 23.8 / 80
p0 150.7 ± 398.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −26.35
Std Dev 77.14
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

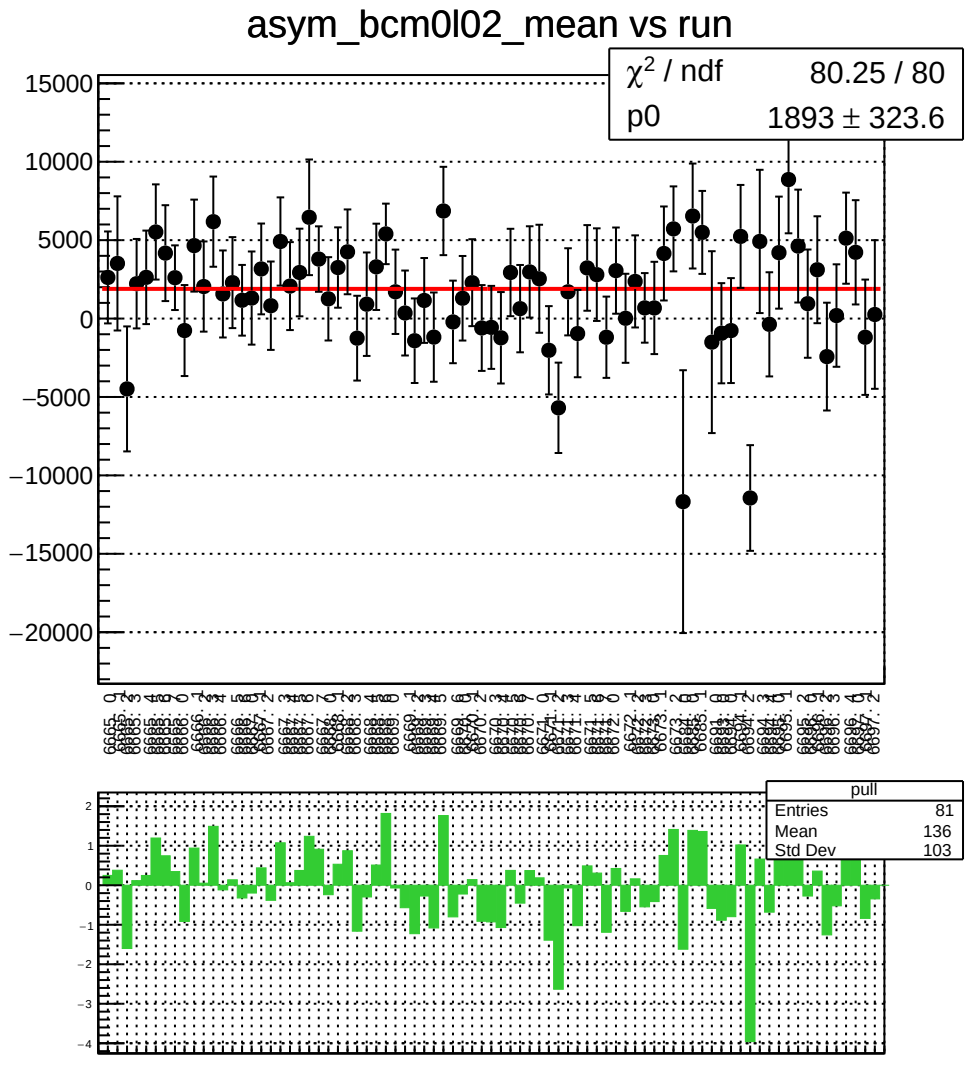

pull1D
Entries 81
Mean −0.007151
Std Dev 0.5421
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

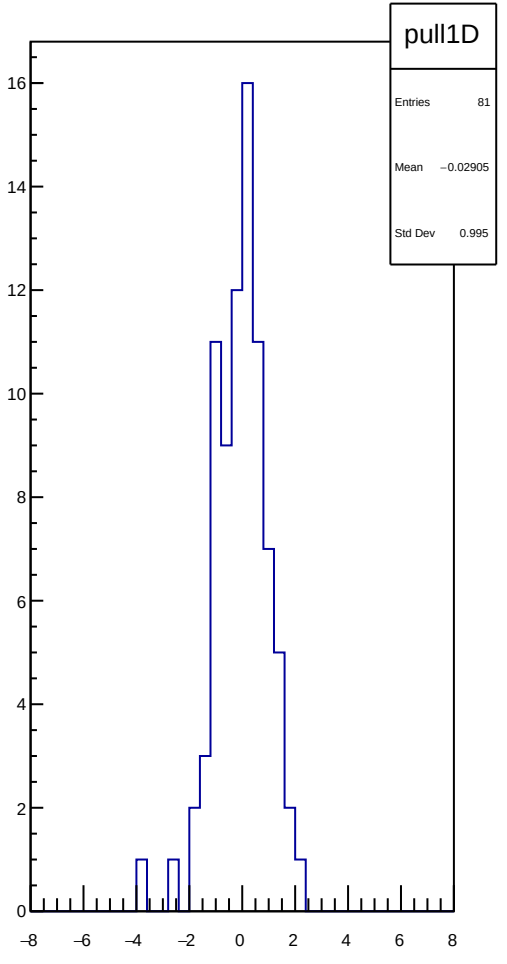

asym_cav4cQ_rms vs run
χ² / ndf 8828 / 80
p0 348.5 ± 0.2816
500
450
400
350
300

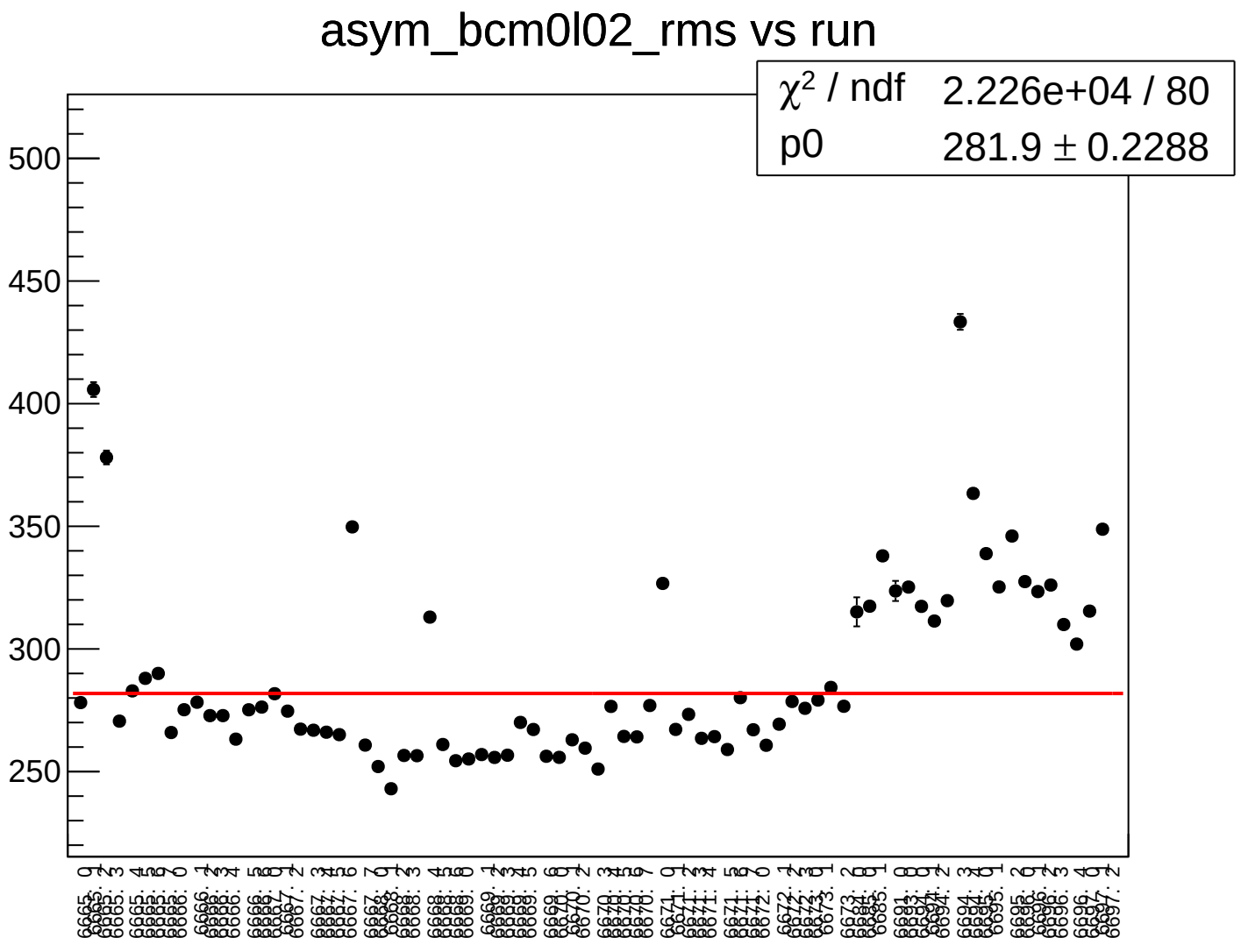

asym_cav4dQ_mean vs run
χ² / ndf 53.34 / 80
p0 569.2 ± 512.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 149.1
Std Dev 91.21
1.5
1
0.5
0
−0.5
−1
−1.5
−2

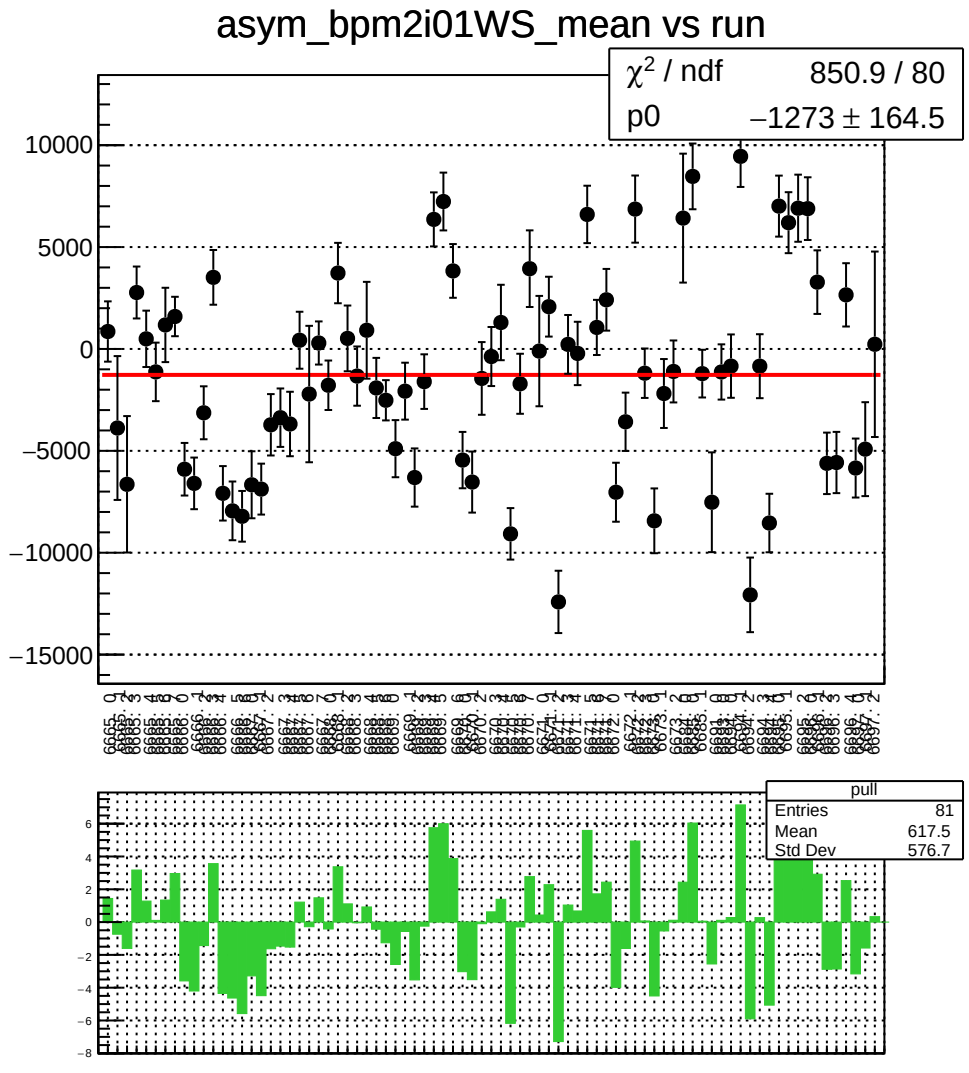

pull1D
Entries 81
Mean 0.007414
Std Dev 0.8115
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

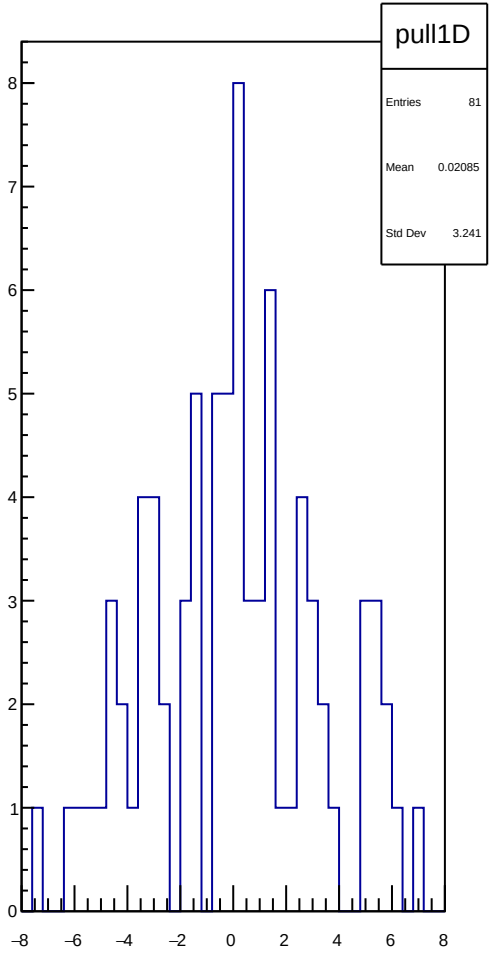

asym_cav4dQ_rms vs run
χ² / ndf 4898 / 80
p0 448.8 ± 0.3622
600
550
500
450
400

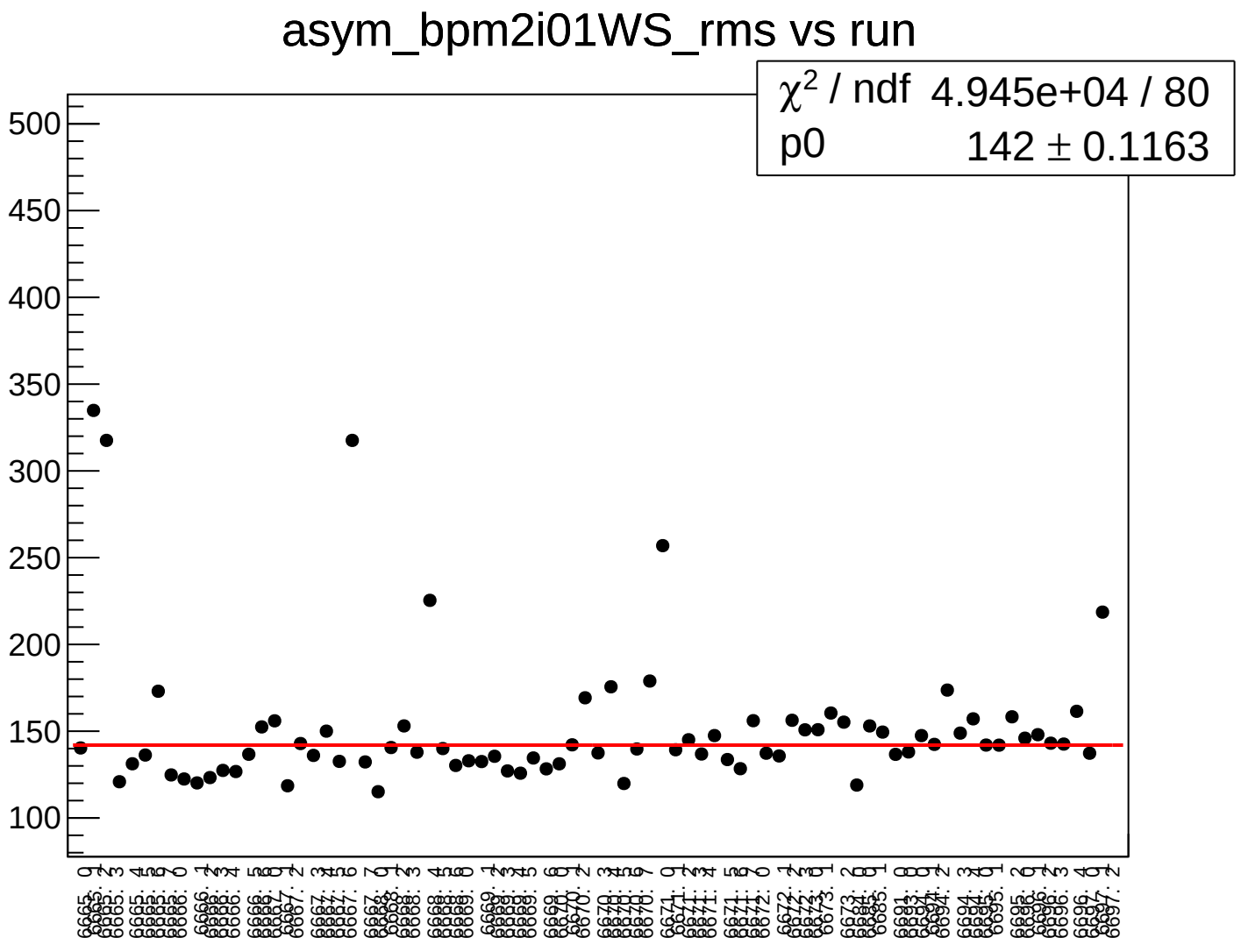

asym_bcm0l02_mean vs run
χ² / ndf 80.25 / 80
p0 1893 ± 323.6
pull
Entries 81
Mean 136
Std Dev 103

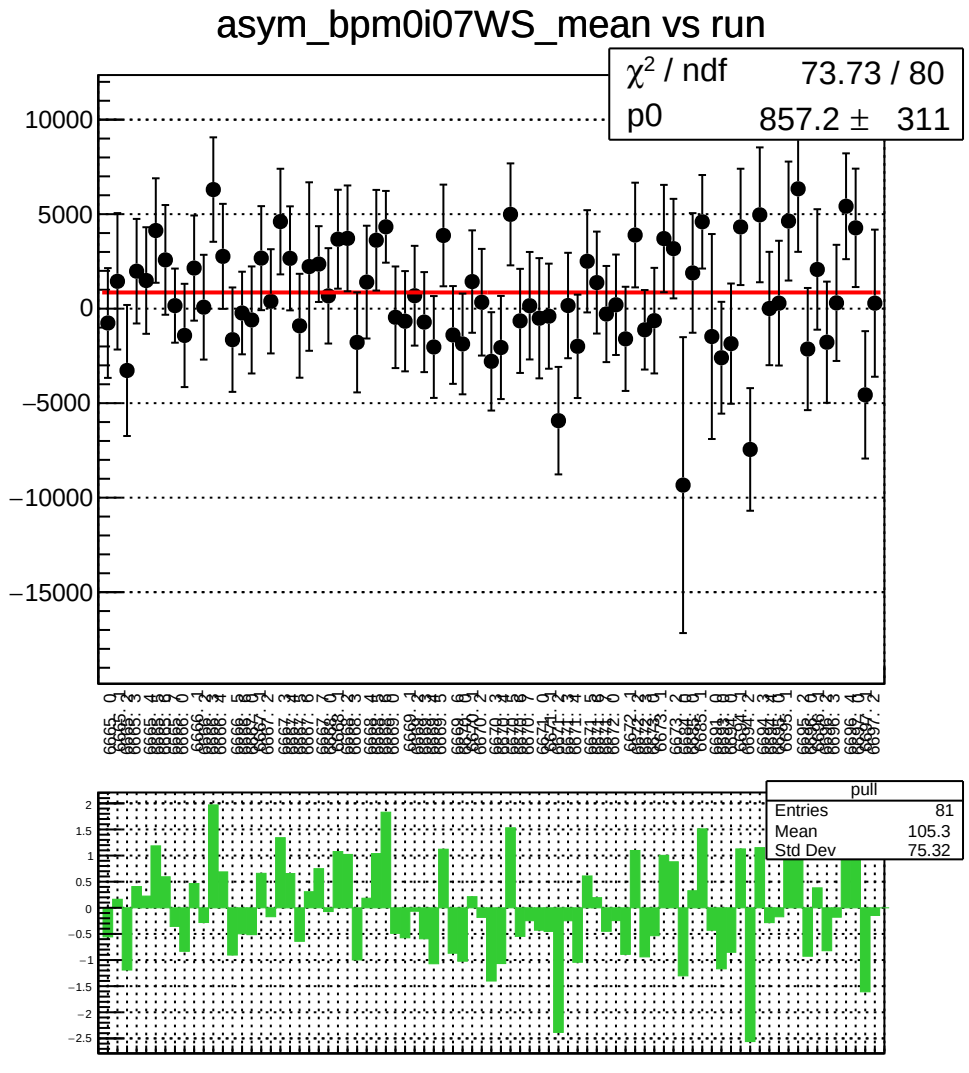

pull1D
Entries 81
Mean −0.02905
Std Dev 0.995

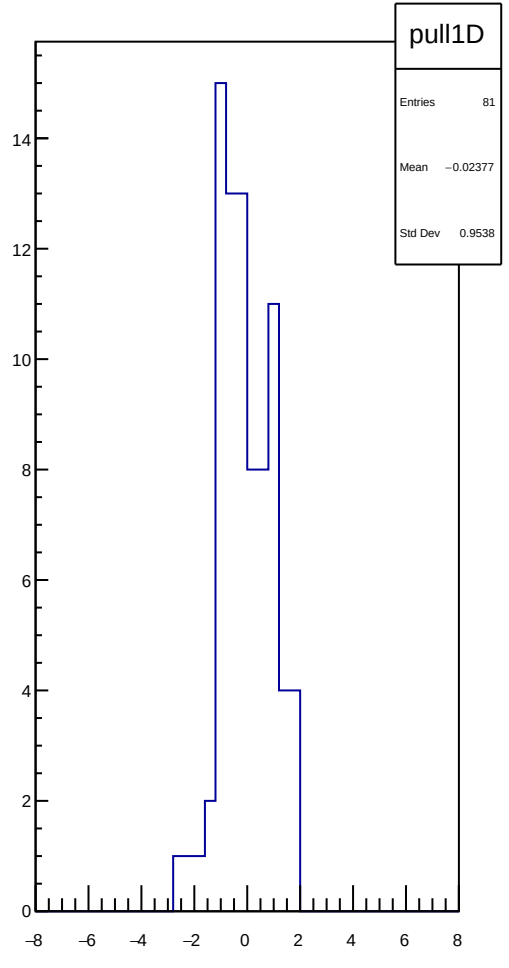

asym_bcm0l02_rms vs run
χ² / ndf 2.226e+04 / 80
p0 281.9 ± 0.2288
500
450
400
350
300
250

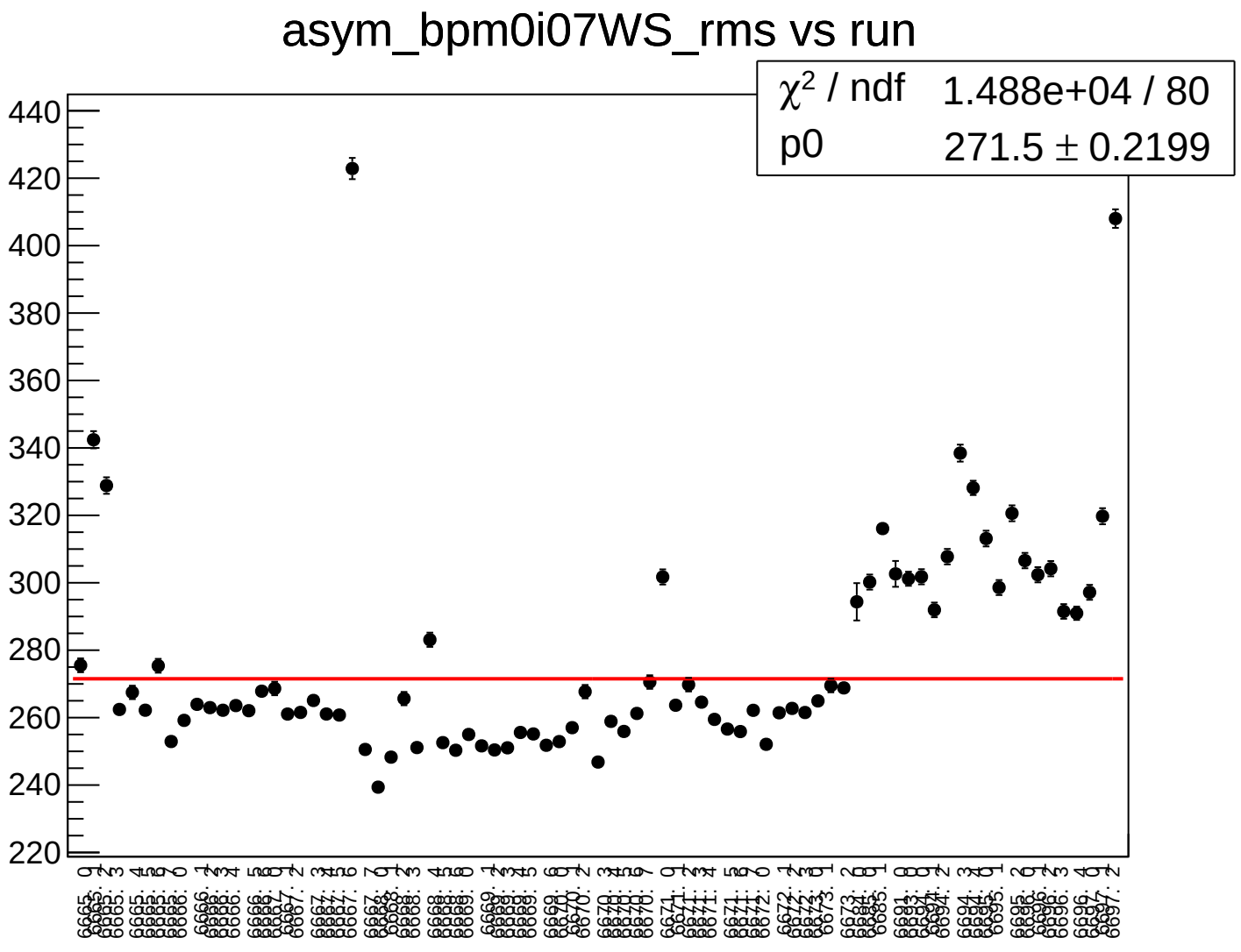

asym_bpm2i01WS_mean vs run
χ² / ndf 850.9 / 80
p0 −1273 ± 164.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 617.5
Std Dev 576.7
6
4
2
0
−2
−4
−6
−8

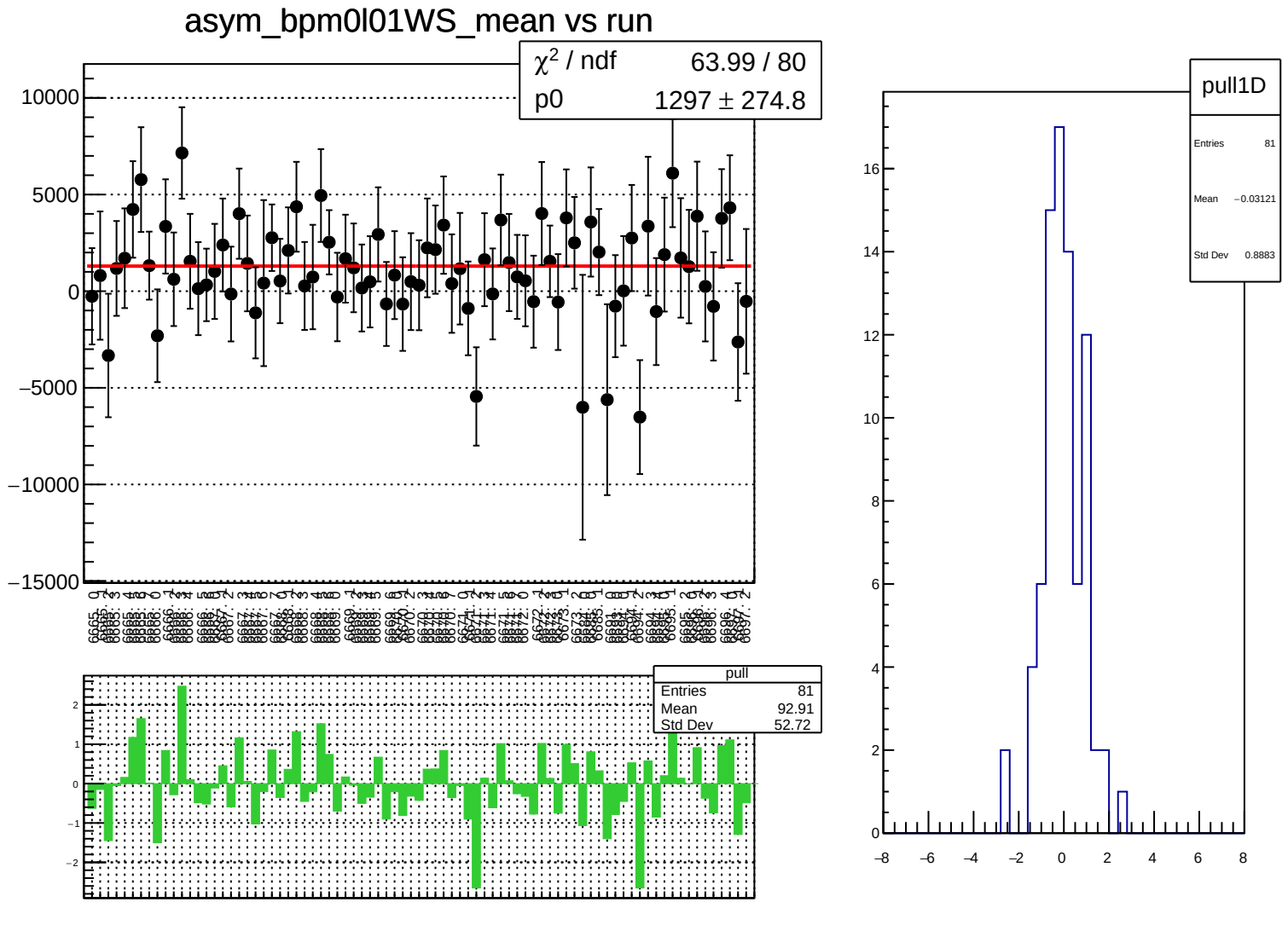

pull1D
Entries 81
Mean 0.02085
Std Dev 3.241
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

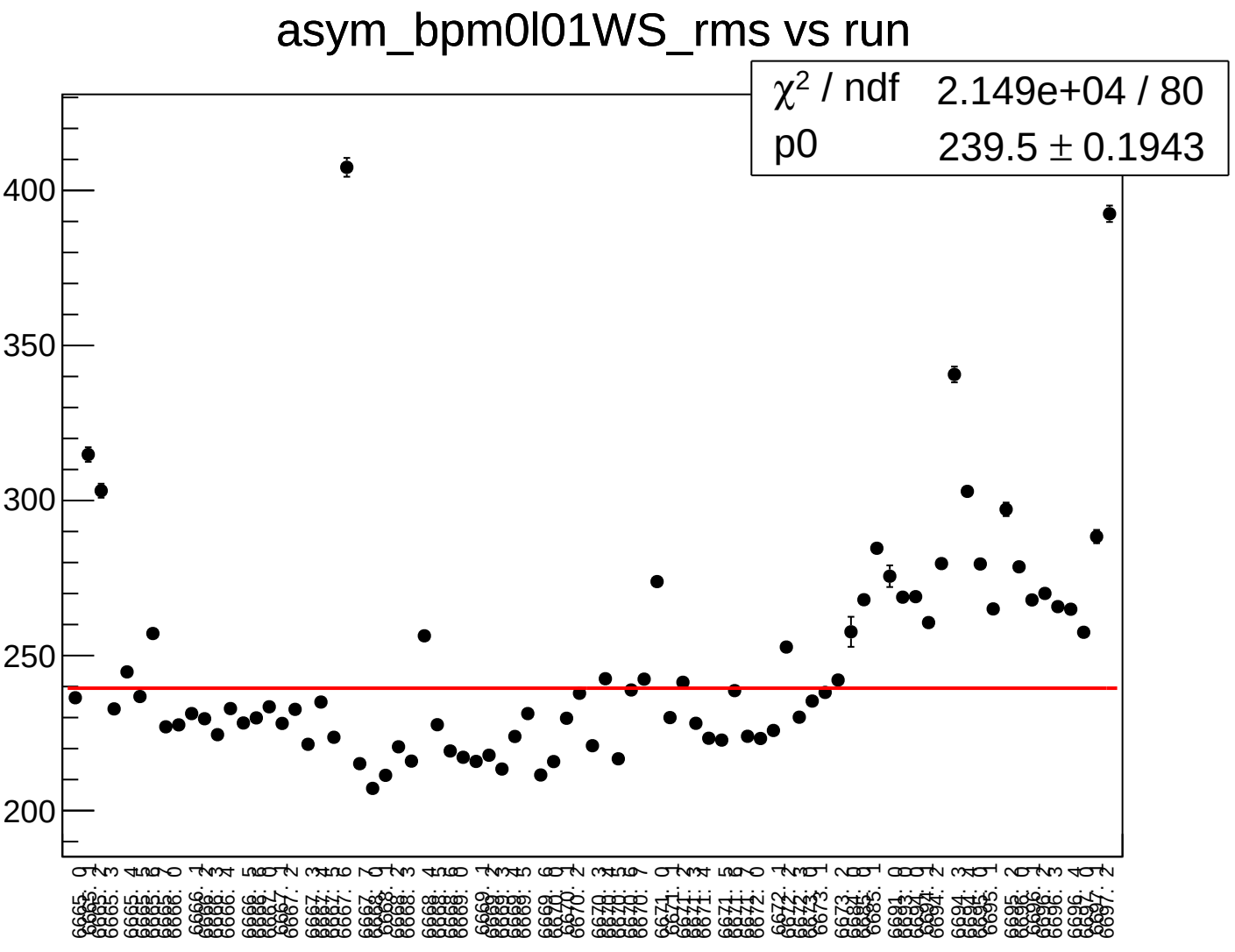

asym_bpm2i01WS_rms vs run
χ² / ndf 4.945e+04 / 80
p0 142 ± 0.1163
500
450
400
350
300
250
200
150
100

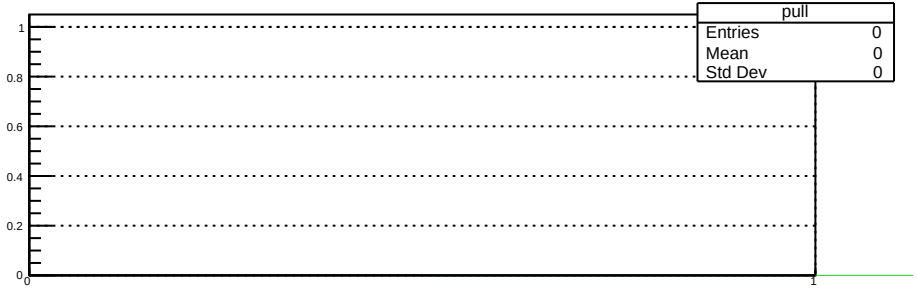

asym_bpm0i07WS_mean vs run
χ² / ndf 73.73 / 80
p0 857.2 ± 311
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 105.3
Std Dev 75.32
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

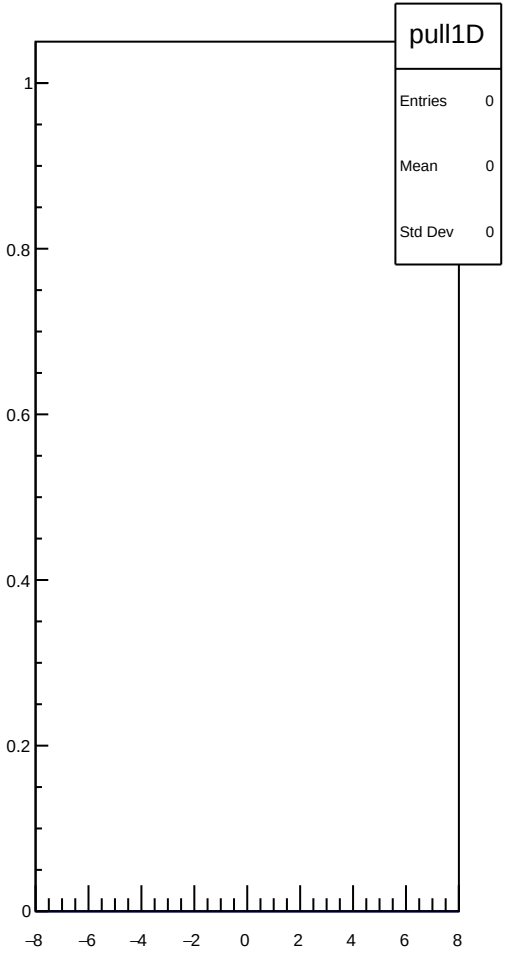

pull1D
Entries 81
Mean −0.02377
Std Dev 0.9538
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

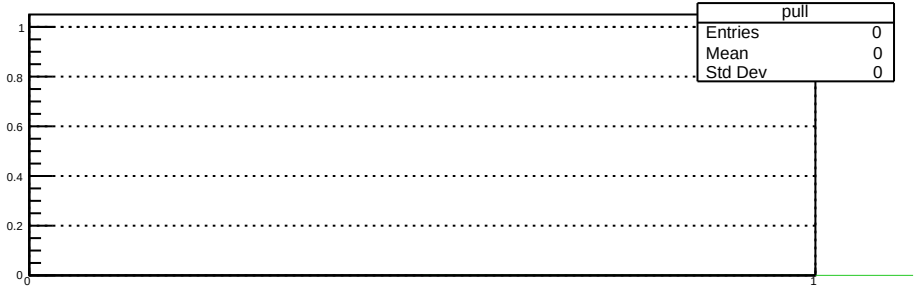

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.488e+04 / 80
p0 271.5 ± 0.2199
440
420
400
380
360
340
320
300
280
260
240
220

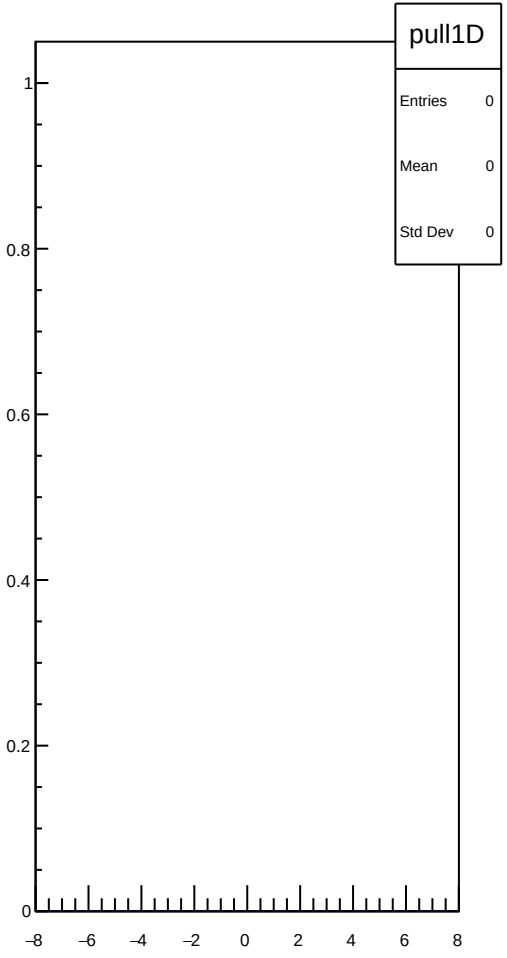

asym_bpm0l01WS_mean vs run
χ² / ndf 63.99 / 80
p0 1297 ± 274.8
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 92.91
Std Dev 52.72
2
1
0
−1
−2
pull1D
Entries 81
Mean −0.03121
Std Dev 0.8883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

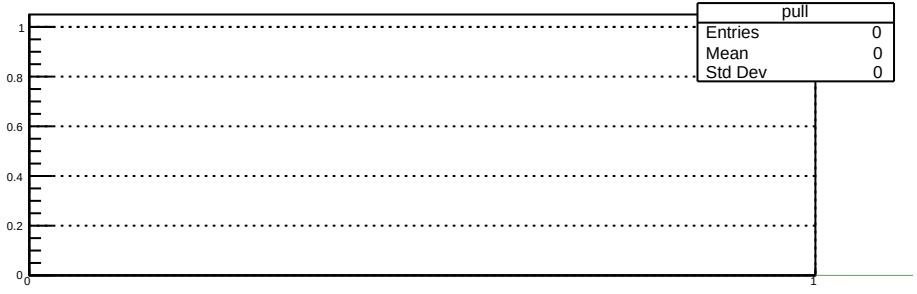

asym_bpm0l01WS_rms vs run
χ² / ndf 2.149e+04 / 80
p0 239.5 ± 0.1943
400
350
300
250
200

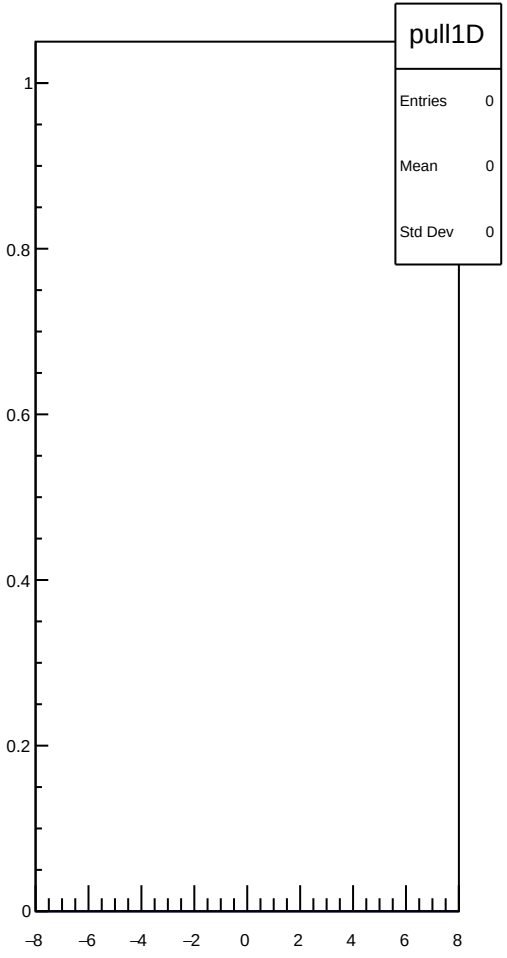

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

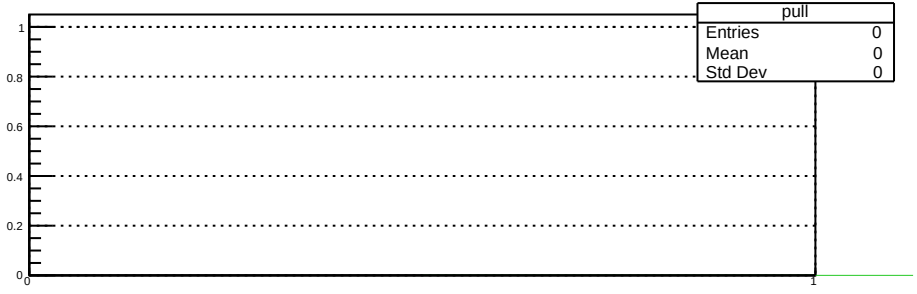

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

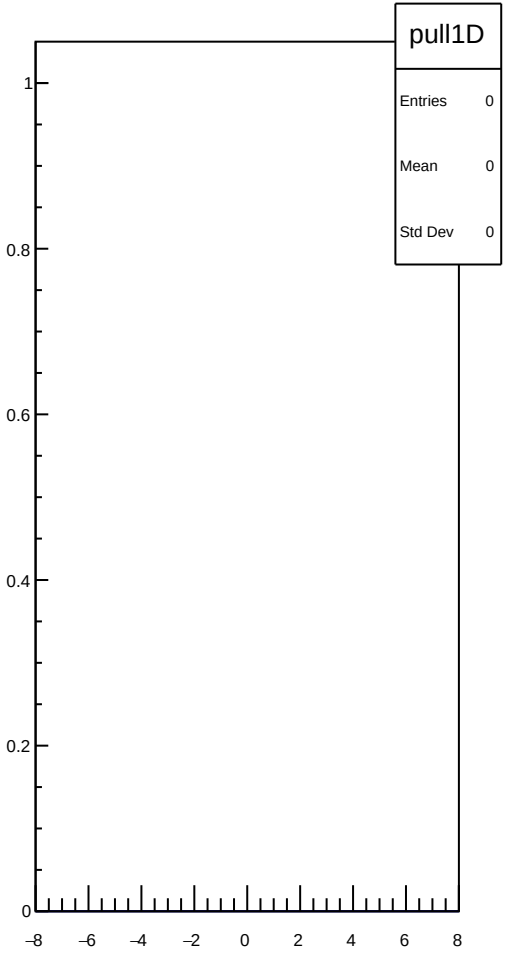

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

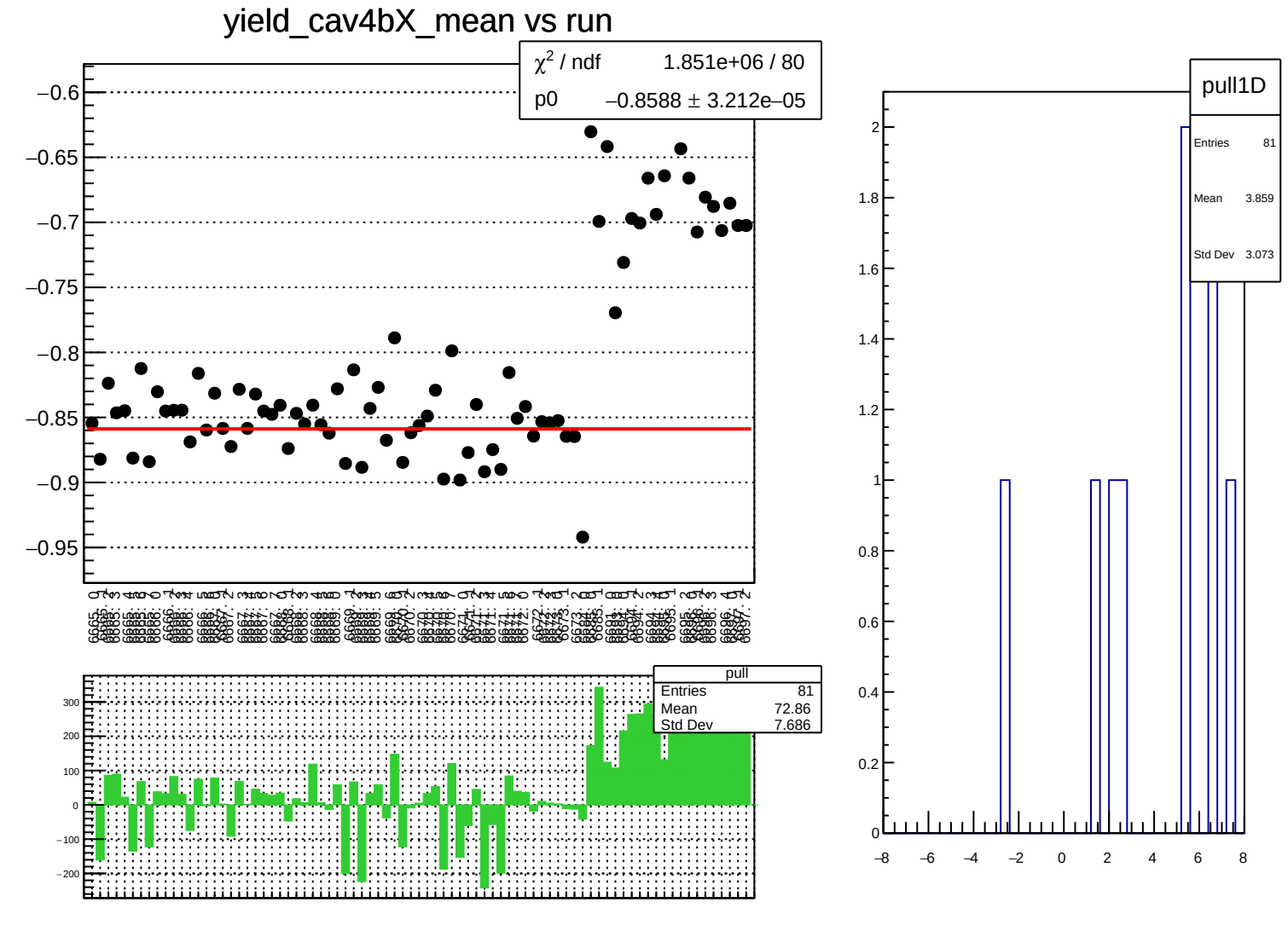

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

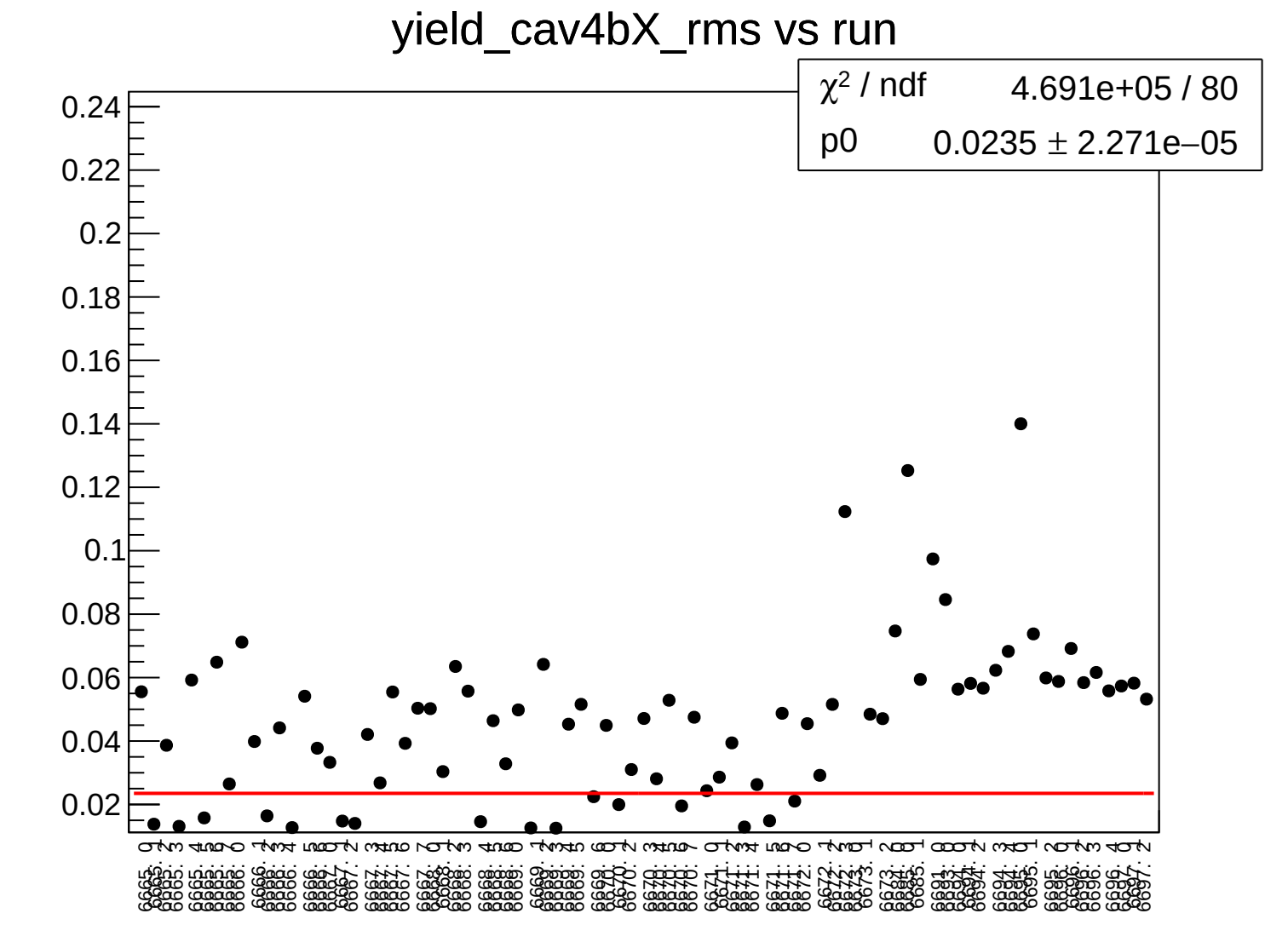

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

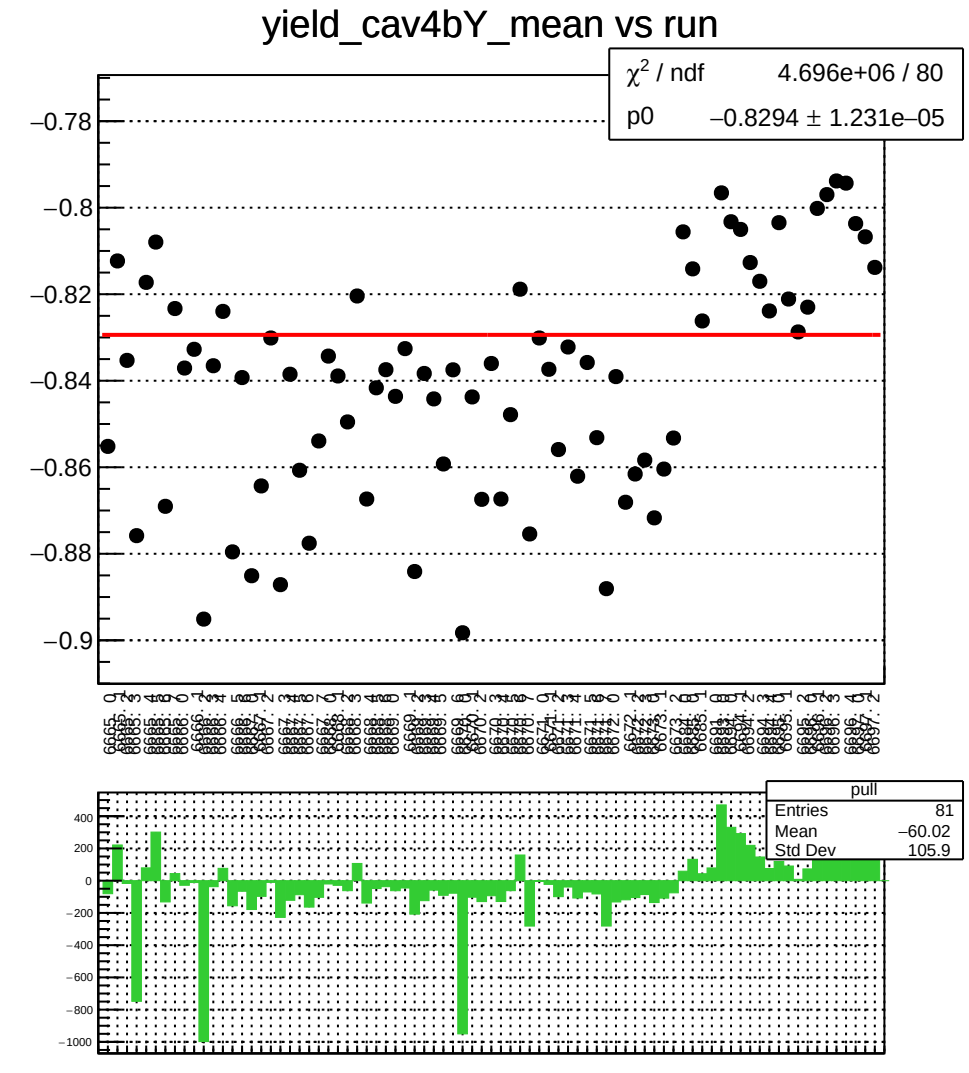

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

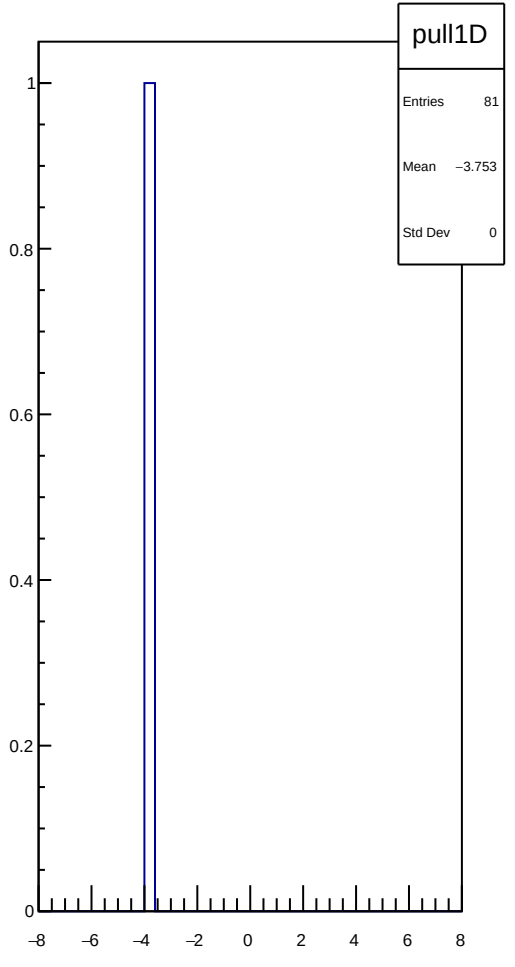

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

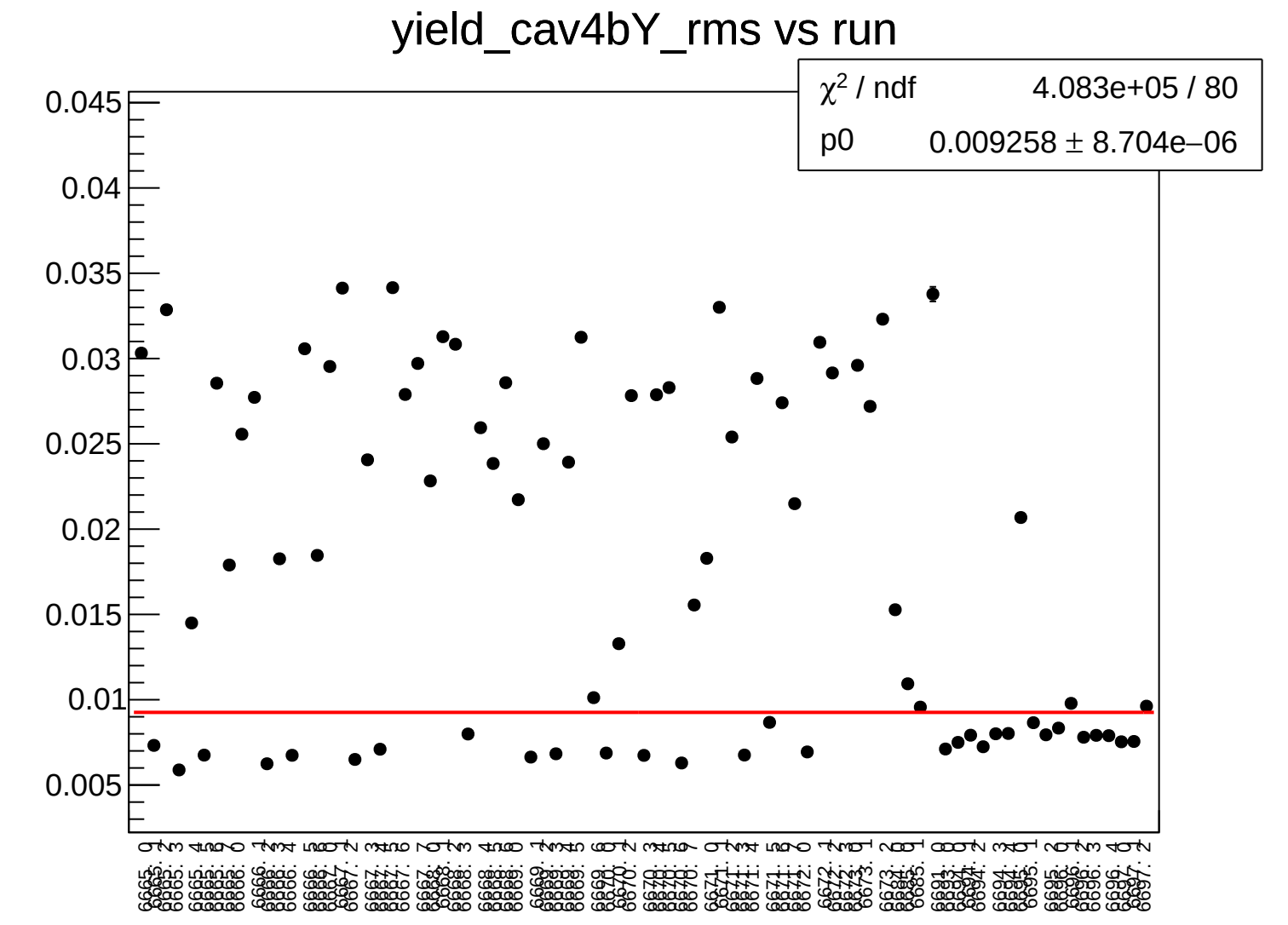

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

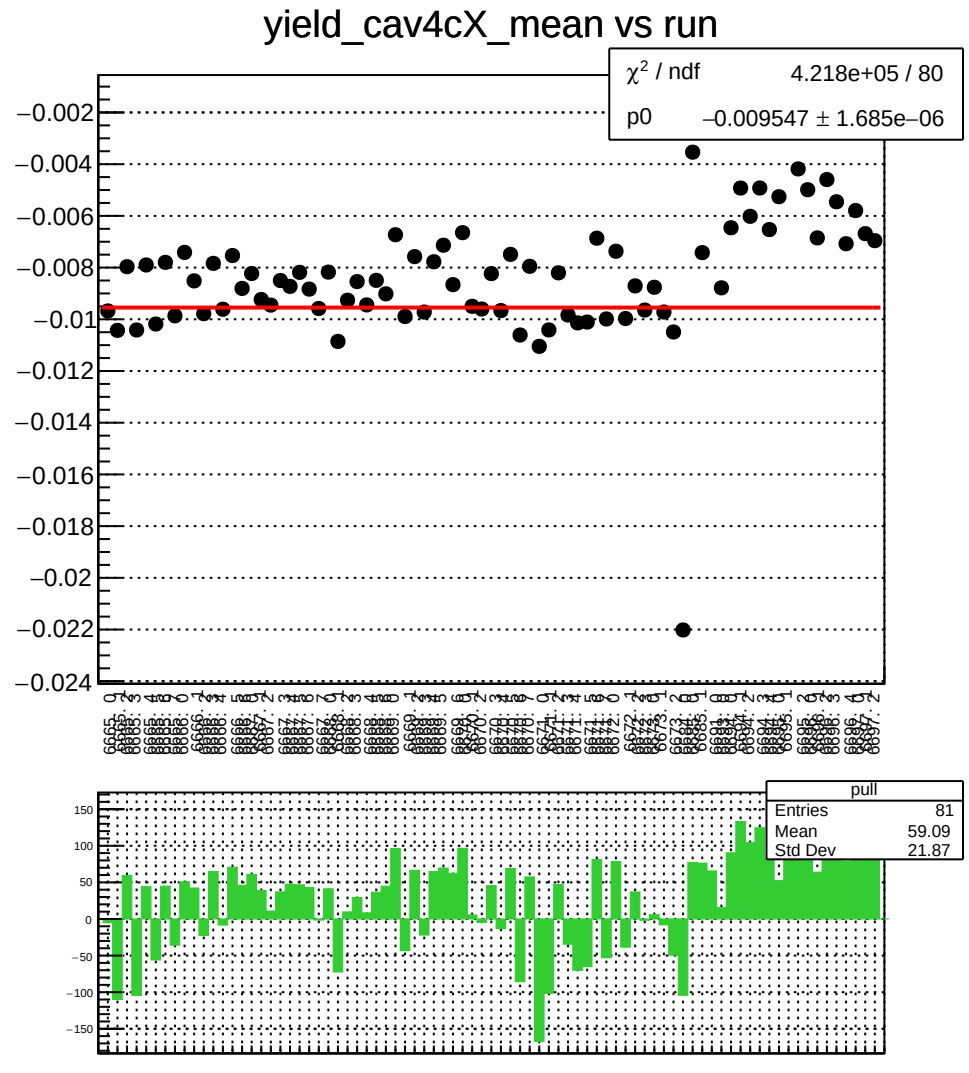

yield_cav4bX_mean vs run
χ² / ndf 1.851e+06 / 80
p0 −0.8588 ± 3.212e−05
pull
Entries 81
Mean 72.86
Std Dev 7.686
pull1D
Entries 81
Mean 3.859
Std Dev 3.073

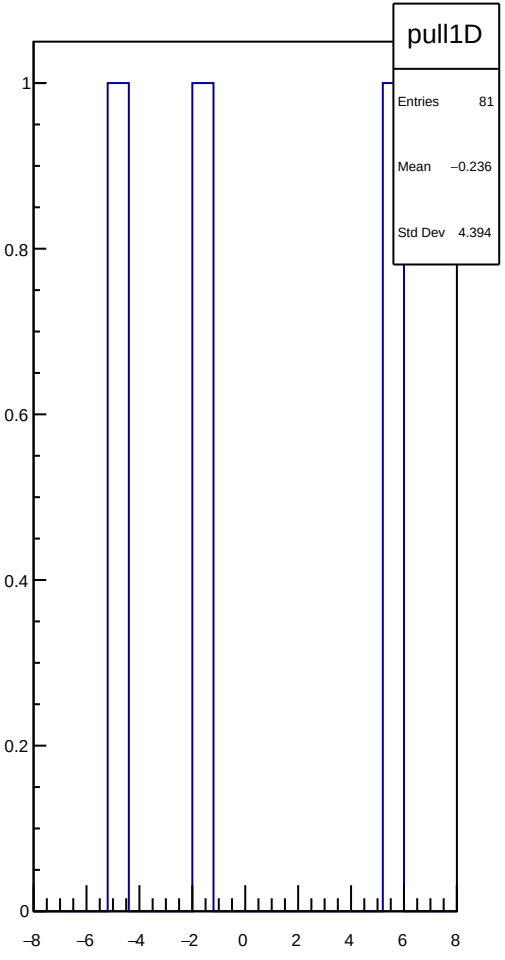

yield_cav4bX_rms vs run
χ² / ndf 4.691e+05 / 80
p0 0.0235 ± 2.271e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

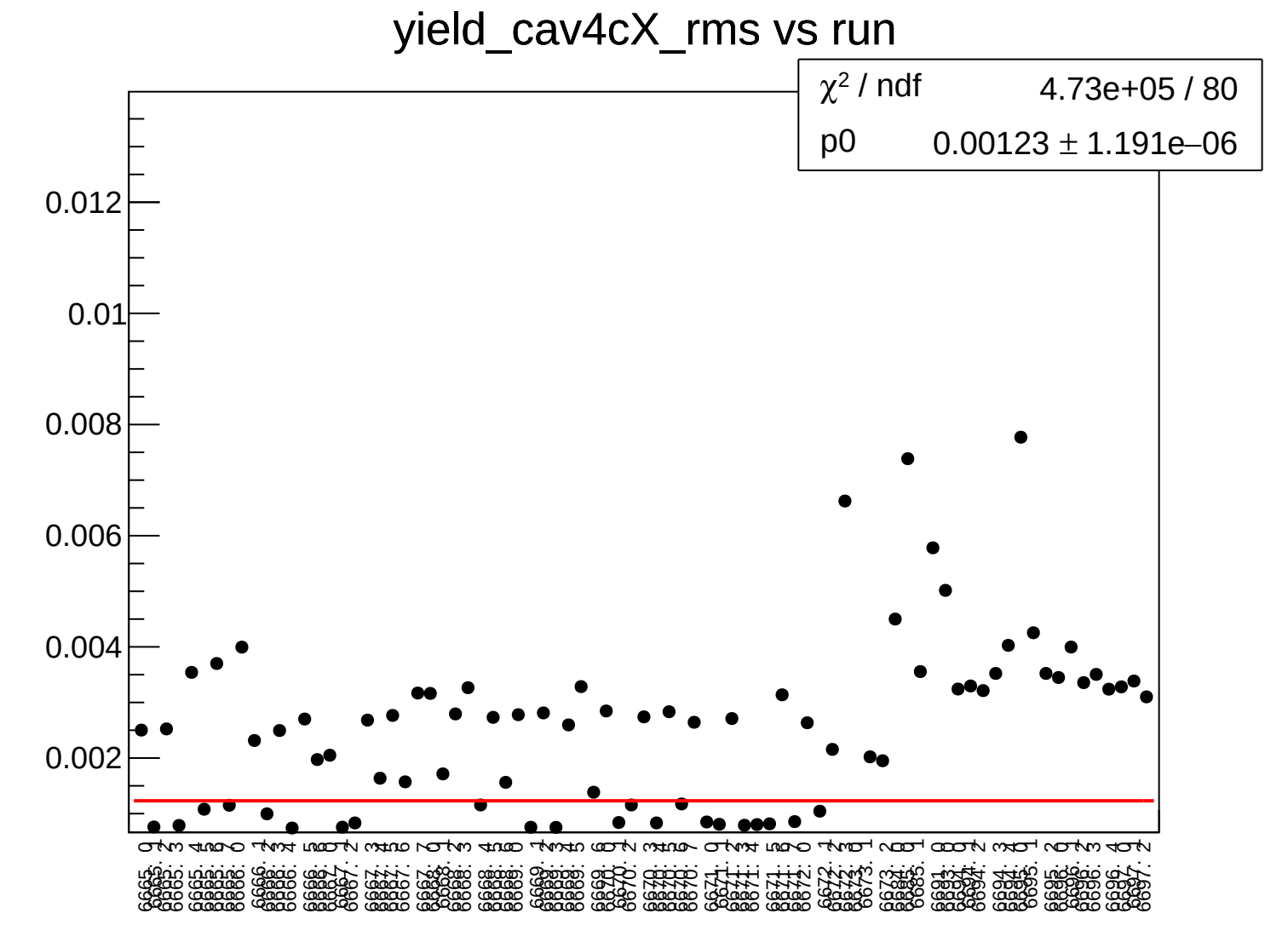

yield_cav4bY_mean vs run
χ² / ndf 4.696e+06 / 80
p0 −0.8294 ± 1.231e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 81
Mean −60.02
Std Dev 105.9
400
200
0
−200
−400
−600
−800
−1000

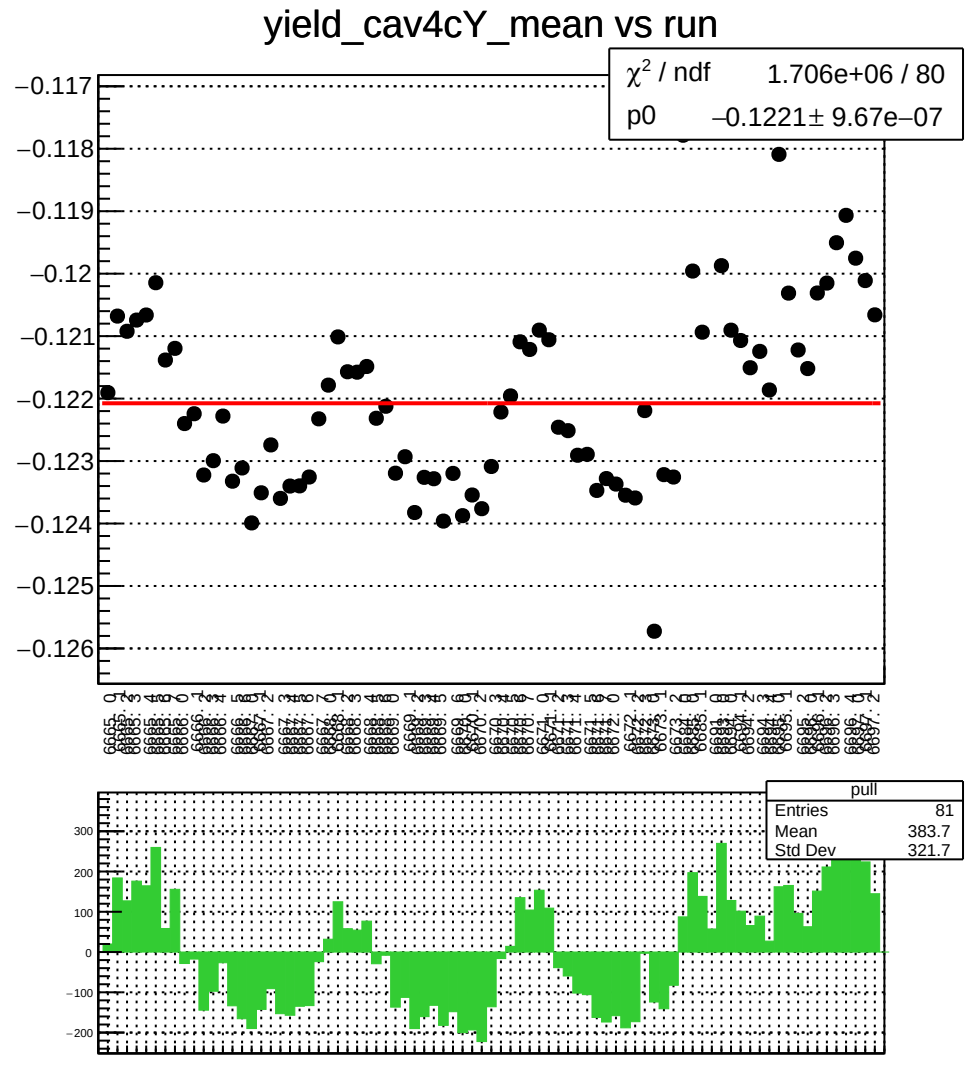

pull1D
Entries 81
Mean −3.753
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

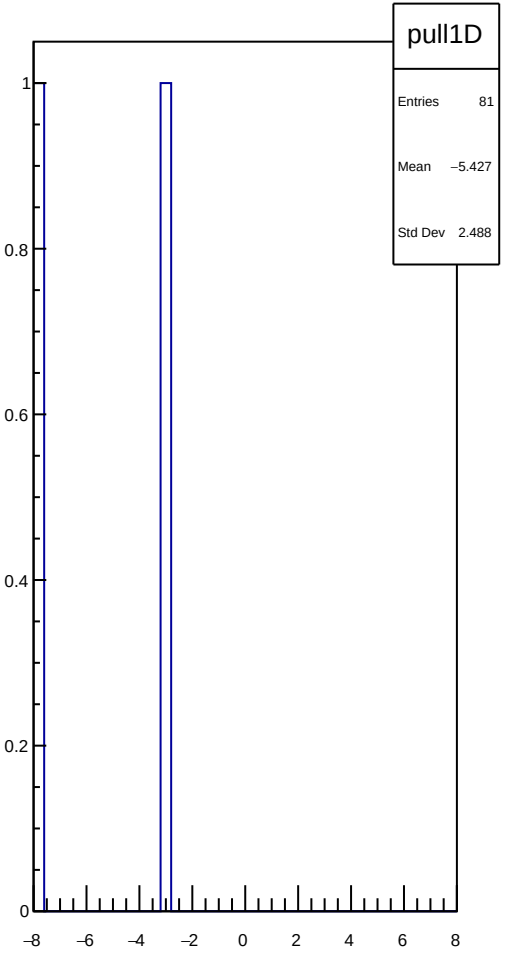

yield_cav4bY_rms vs run
χ² / ndf 4.083e+05 / 80
p0 0.009258 ± 8.704e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

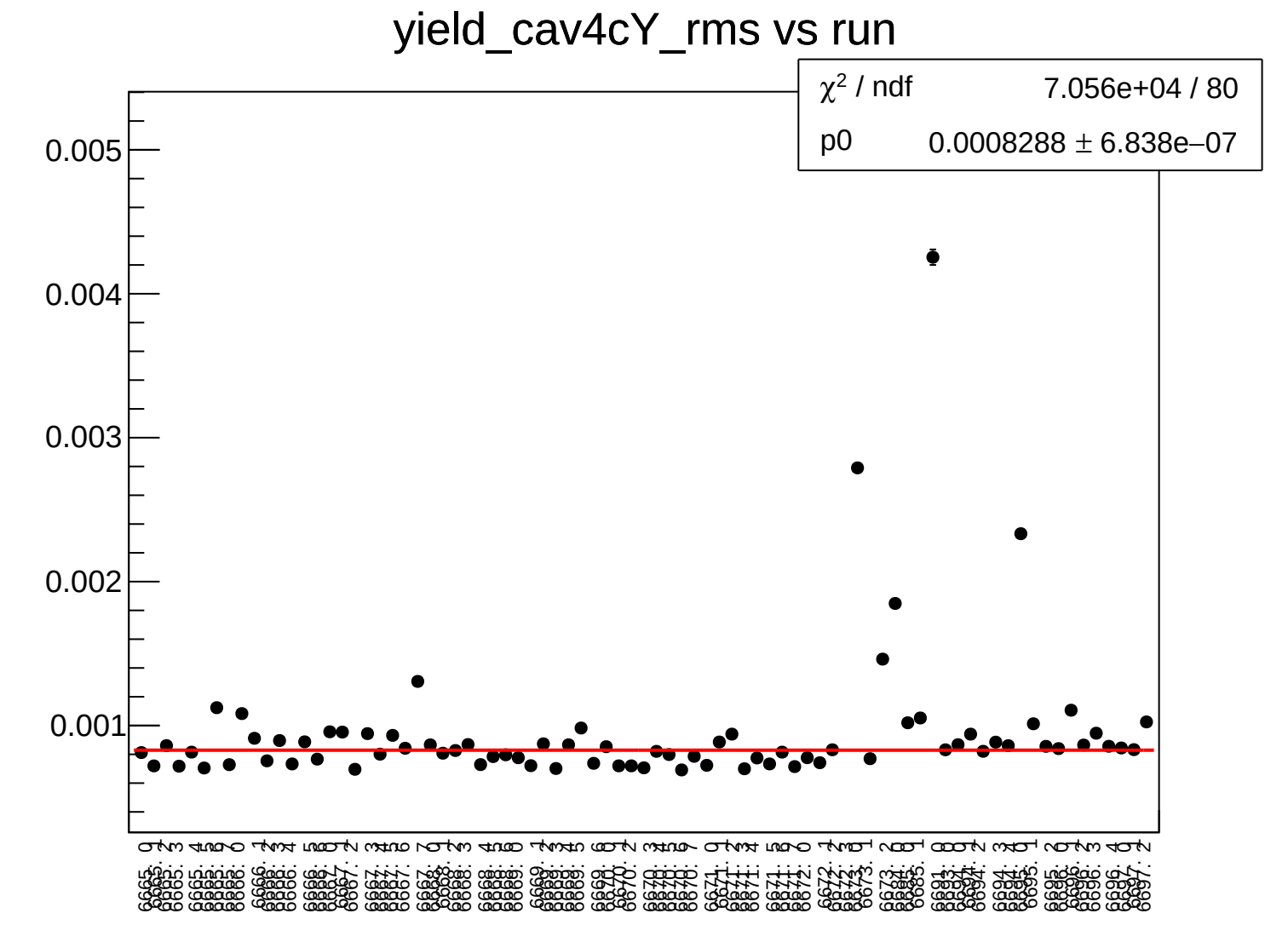

yield_cav4cX_mean vs run
χ² / ndf 4.218e+05 / 80
p0 −0.009547 ± 1.685e−06
pull
Entries 81
Mean 59.09
Std Dev 21.87

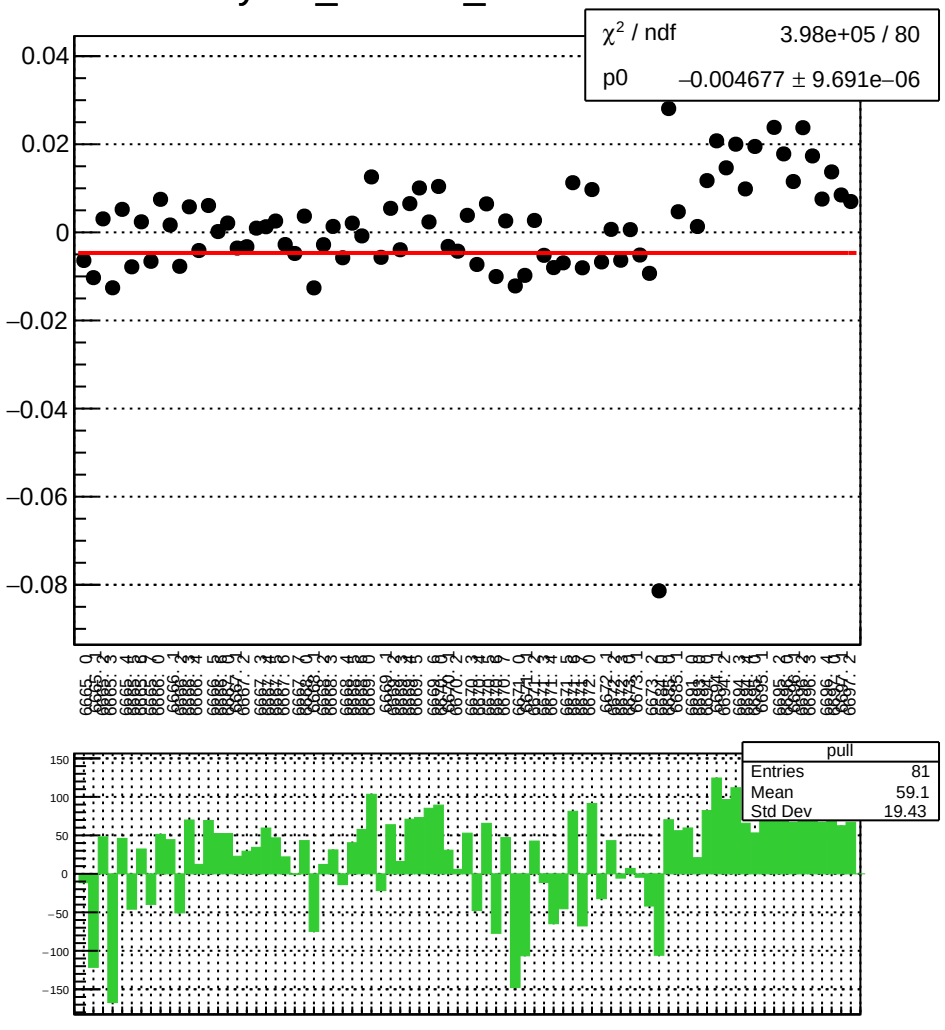

pull1D
Entries 81
Mean −0.236
Std Dev 4.394

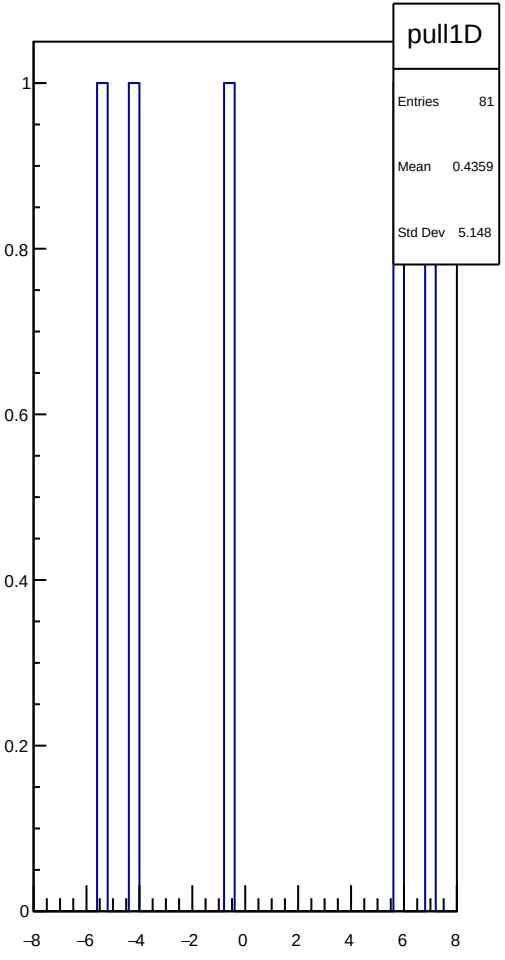

yield_cav4cX_rms vs run
χ² / ndf 4.73e+05 / 80
p0 0.00123 ± 1.191e−06
0.012
0.01
0.008
0.006
0.004
0.002

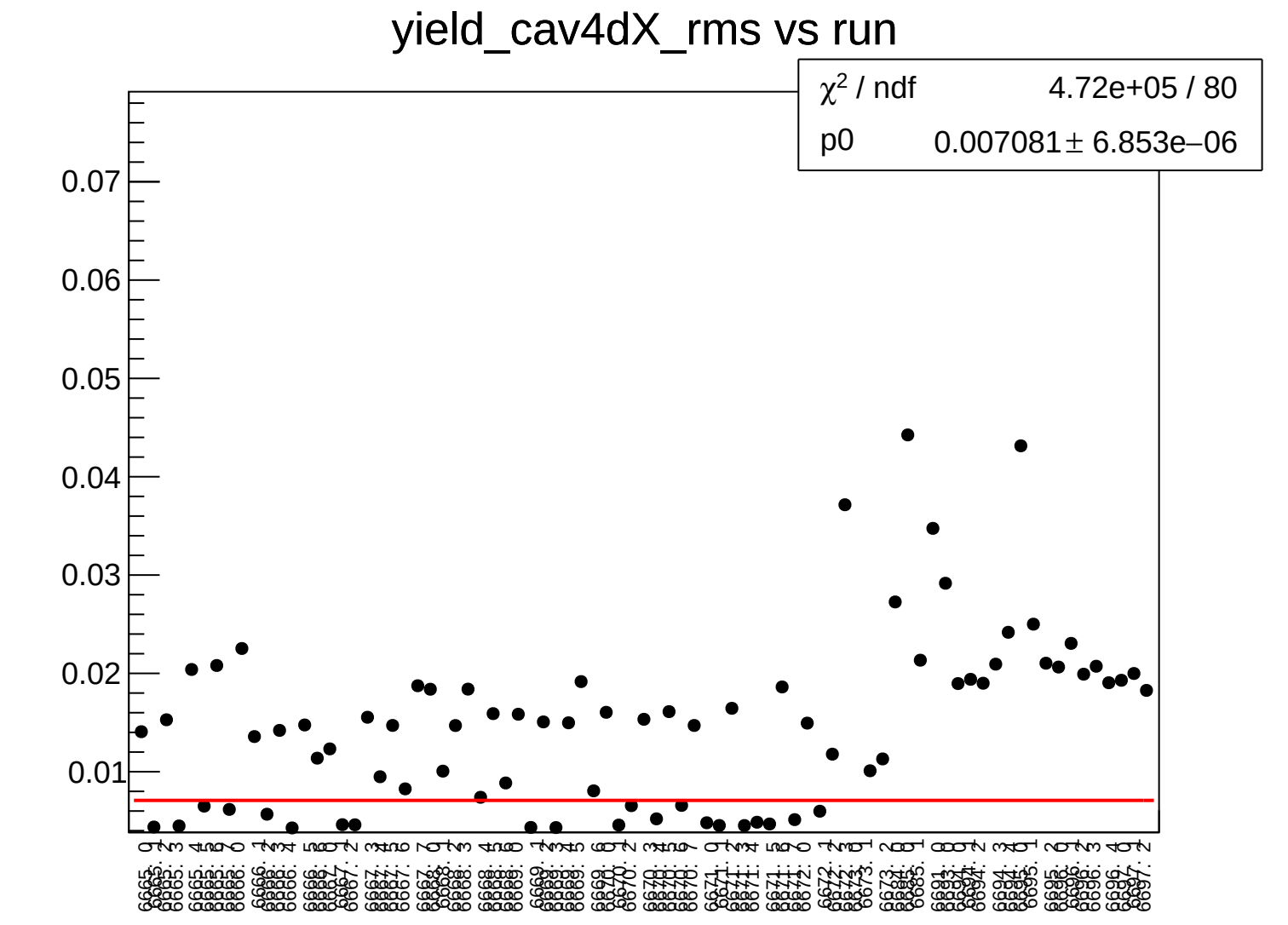

yield_cav4cY_mean vs run
χ² / ndf 1.706e+06 / 80
p0 −0.1221± 9.67e−07
−0.117
−0.118
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
pull
Entries 81
Mean 383.7
Std Dev 321.7
300
200
100
0
−100
−200

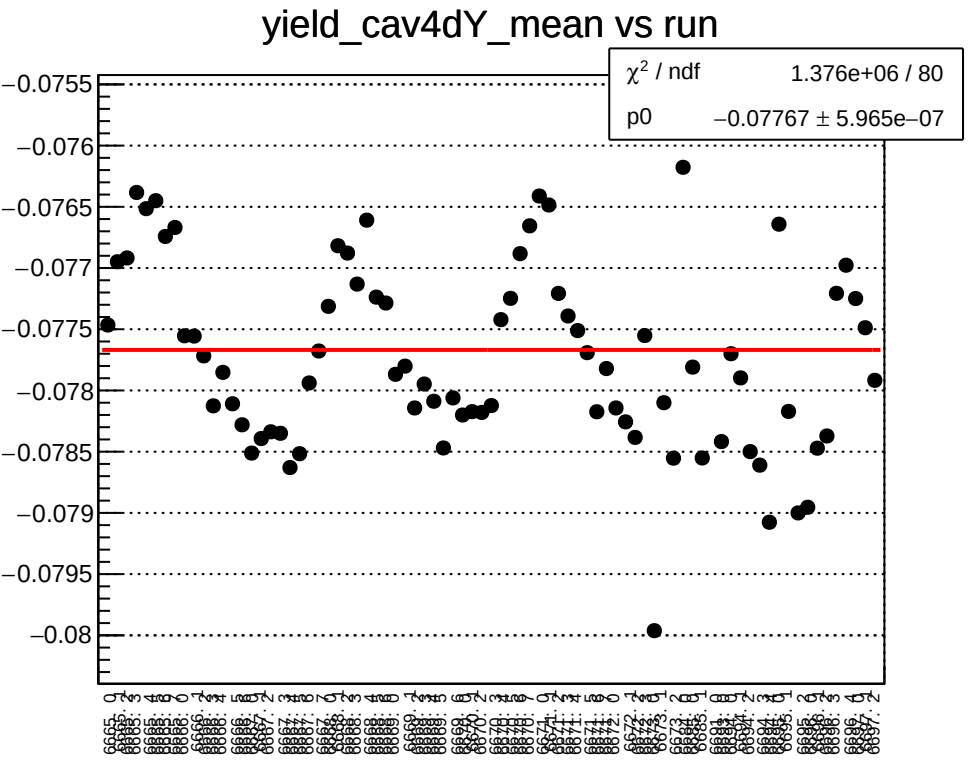

pull1D
Entries 81
Mean −5.427
Std Dev 2.488
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

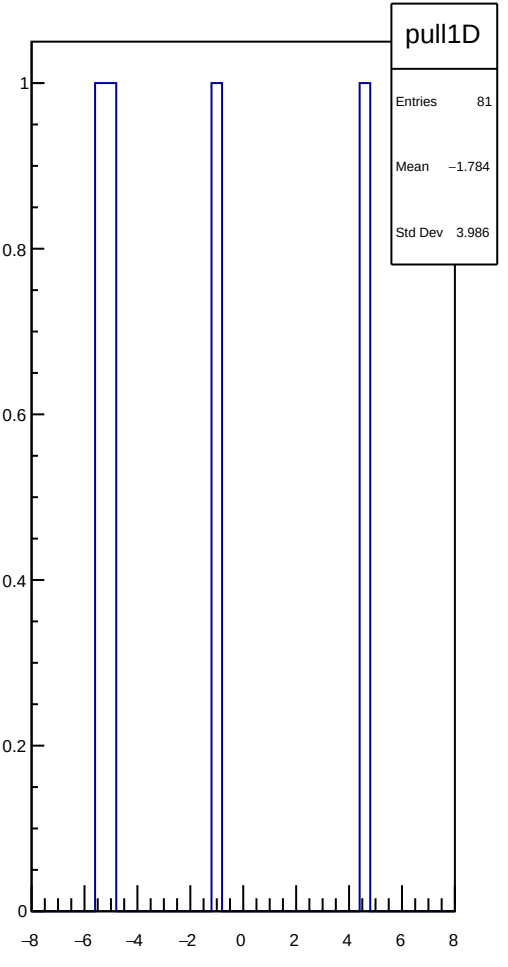

yield_cav4cY_rms vs run
χ² / ndf 7.056e+04 / 80
p0 0.0008288 ± 6.838e−07
0.005
0.004
0.003
0.002
0.001

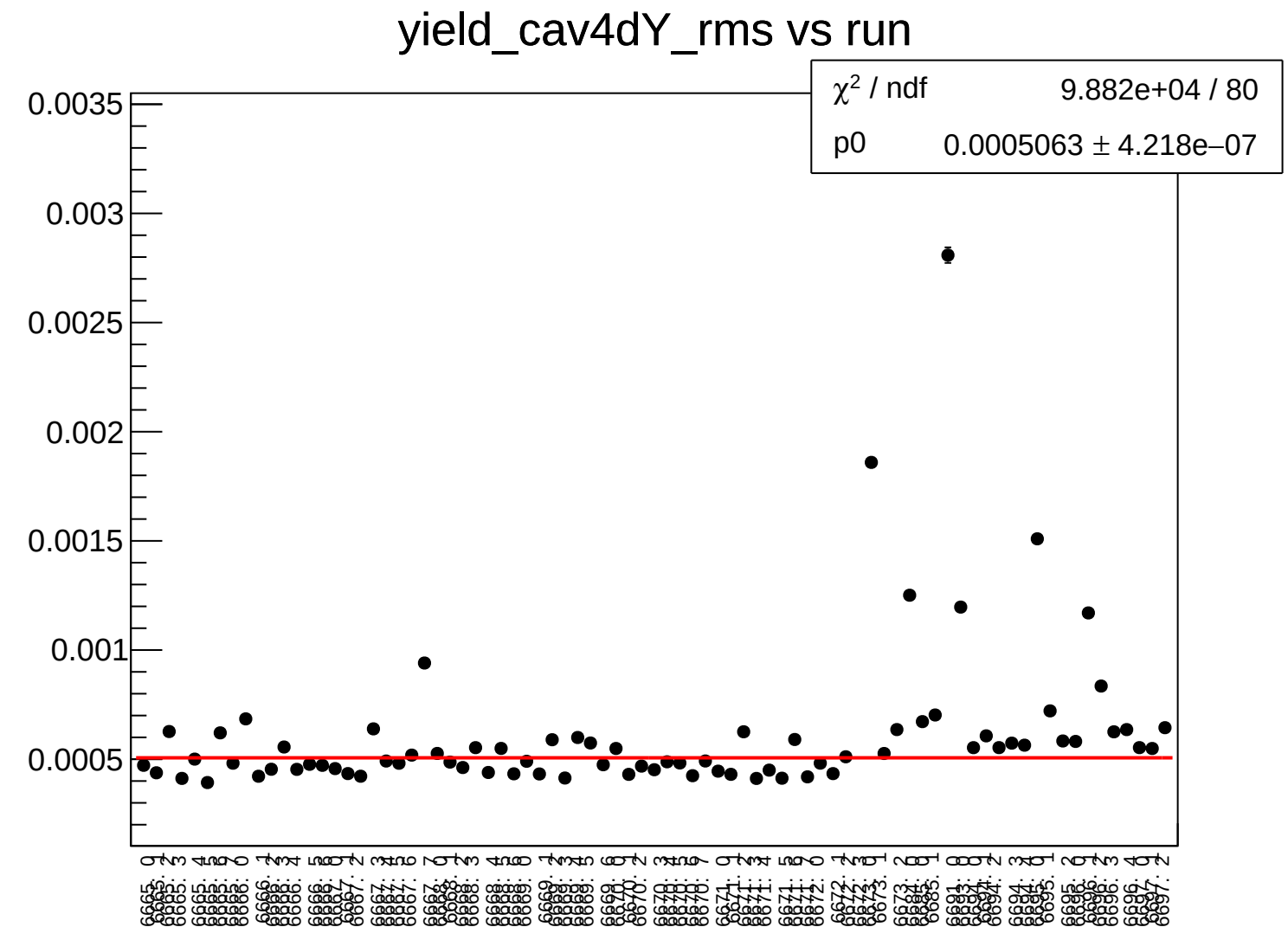

yield_cav4dX_mean vs run
χ² / ndf 3.98e+05 / 80
p0 −0.004677 ± 9.691e−06
pull
Entries 81
Mean 59.1
Std Dev 19.43

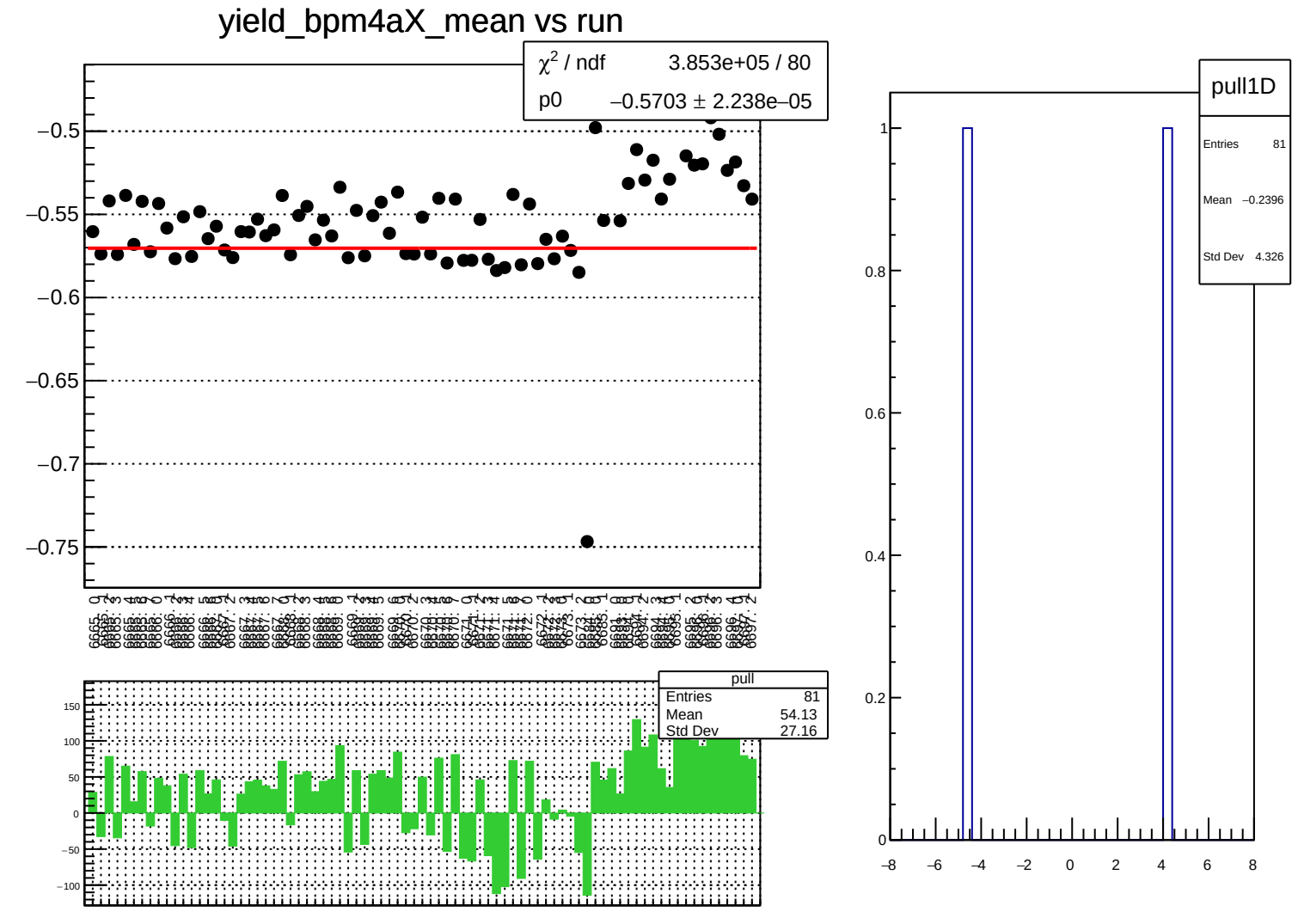

pull1D
Entries 81
Mean 0.4359
Std Dev 5.148

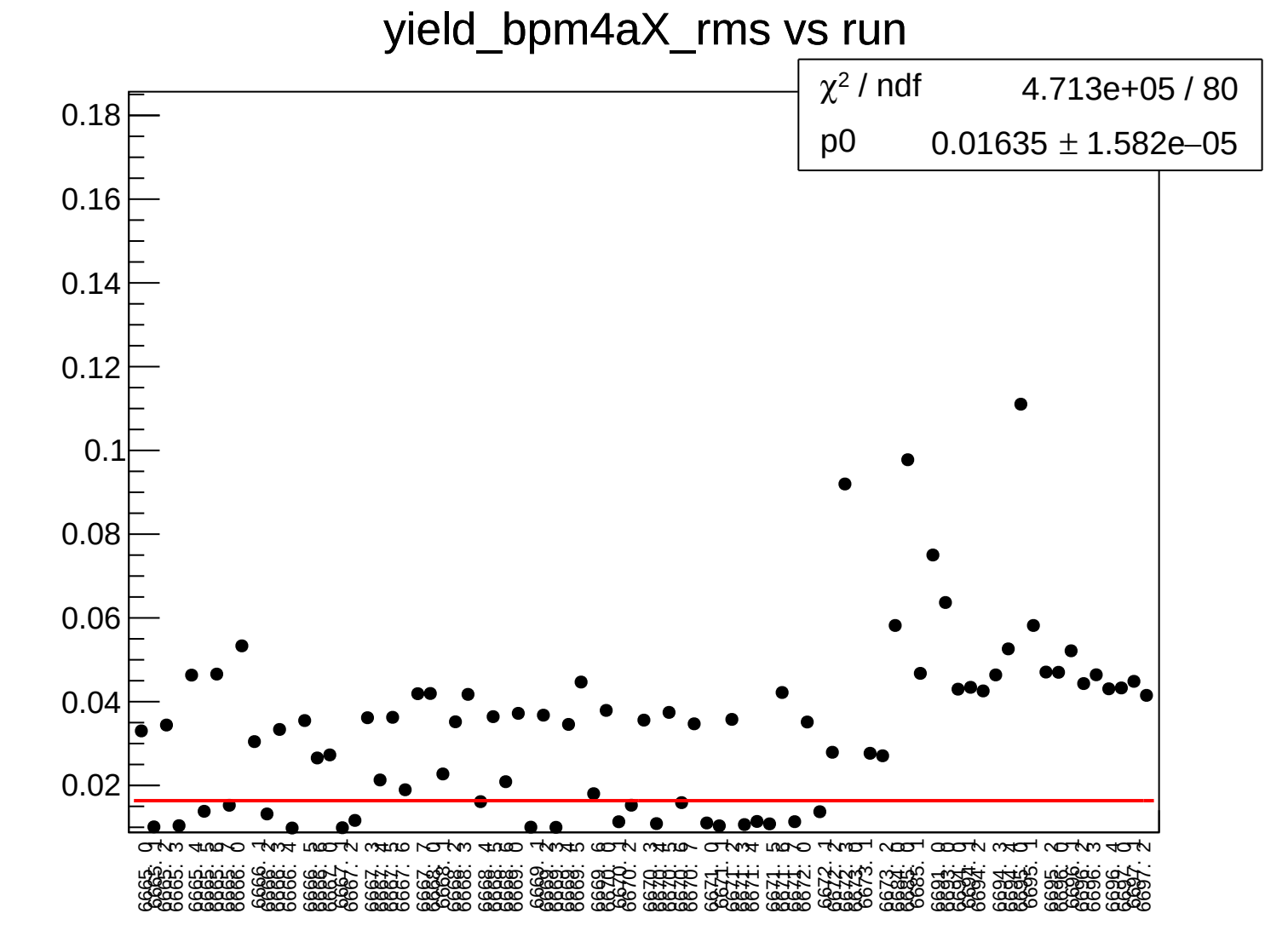

yield_cav4dX_rms vs run
χ² / ndf 4.72e+05 / 80
p0 0.007081 ± 6.853e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

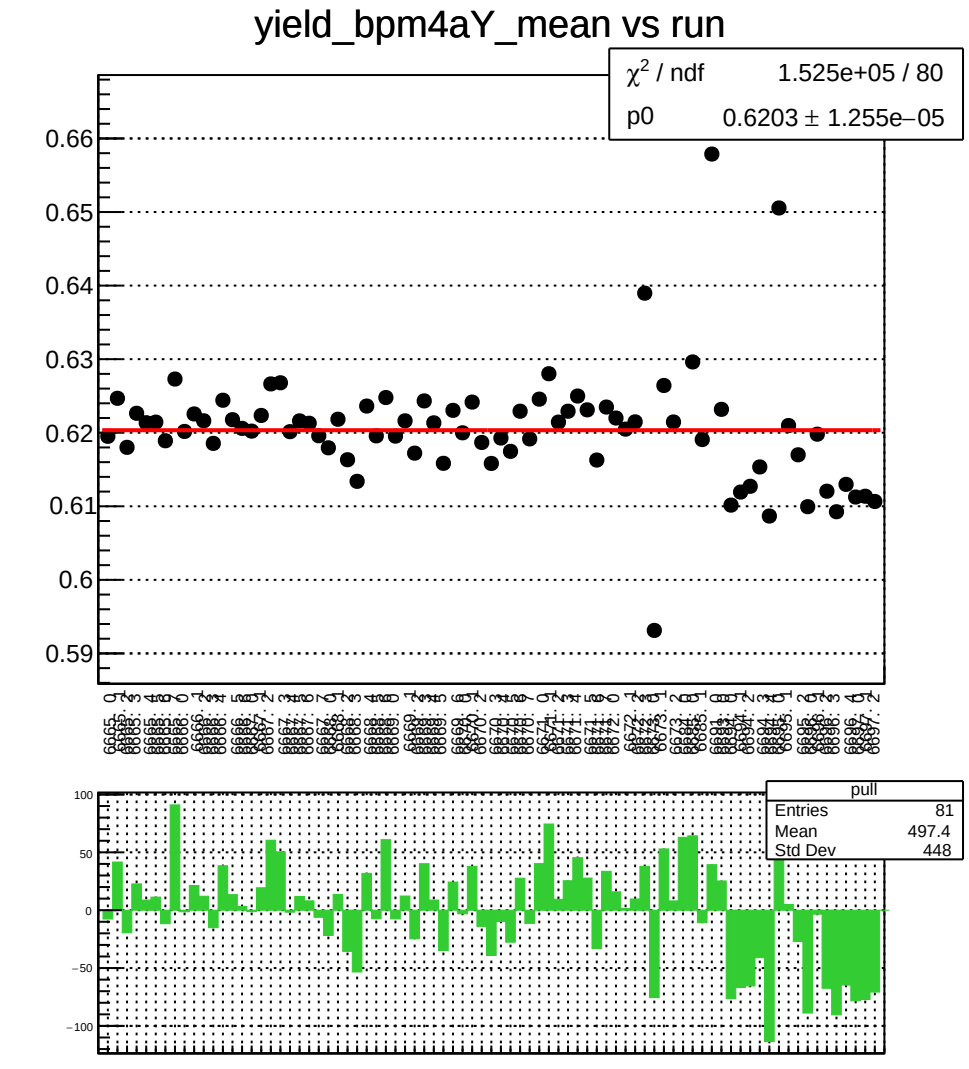

yield_cav4dY_mean vs run
χ² / ndf 1.376e+06 / 80
p0 −0.07767 ± 5.965e−07
−0.0755
−0.076
−0.0765
−0.077
−0.0775
−0.078
−0.0785
−0.079
−0.0795
−0.08
pull
Entries 81
Mean 184.1
Std Dev 146.1
300
200
100
0
−100
−200
−300

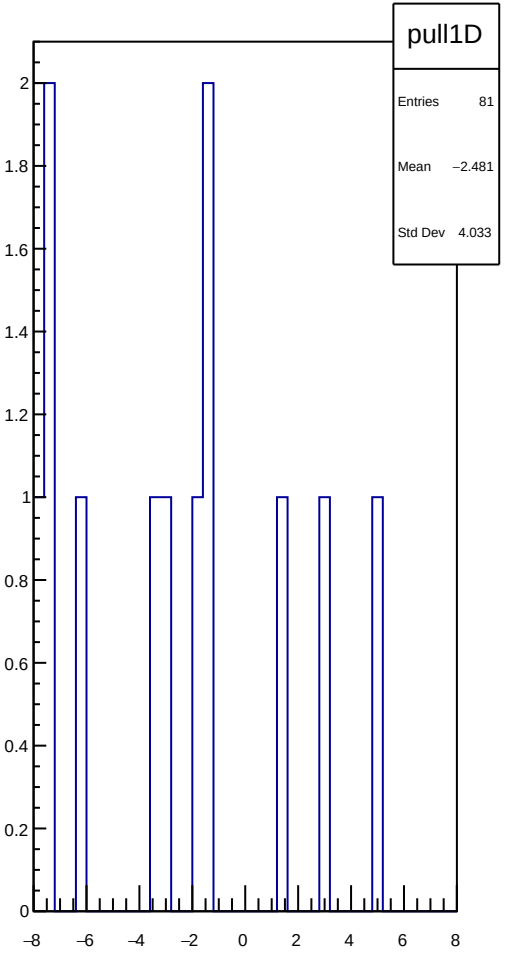

pull1D
Entries 81
Mean −1.784
Std Dev 3.986
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

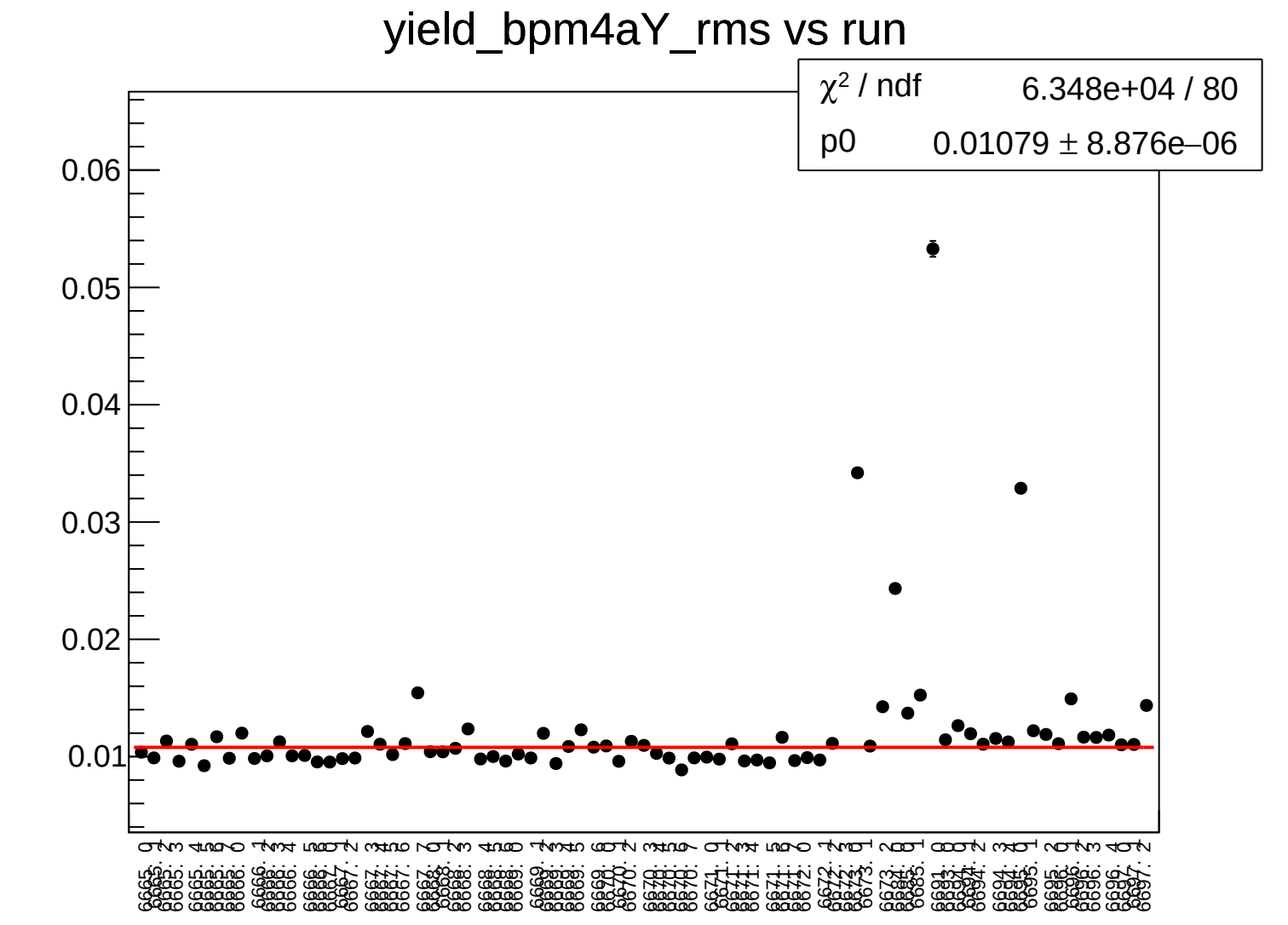

yield_cav4dY_rms vs run
χ² / ndf 9.882e+04 / 80
p0 0.0005063 ± 4.218e−07
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

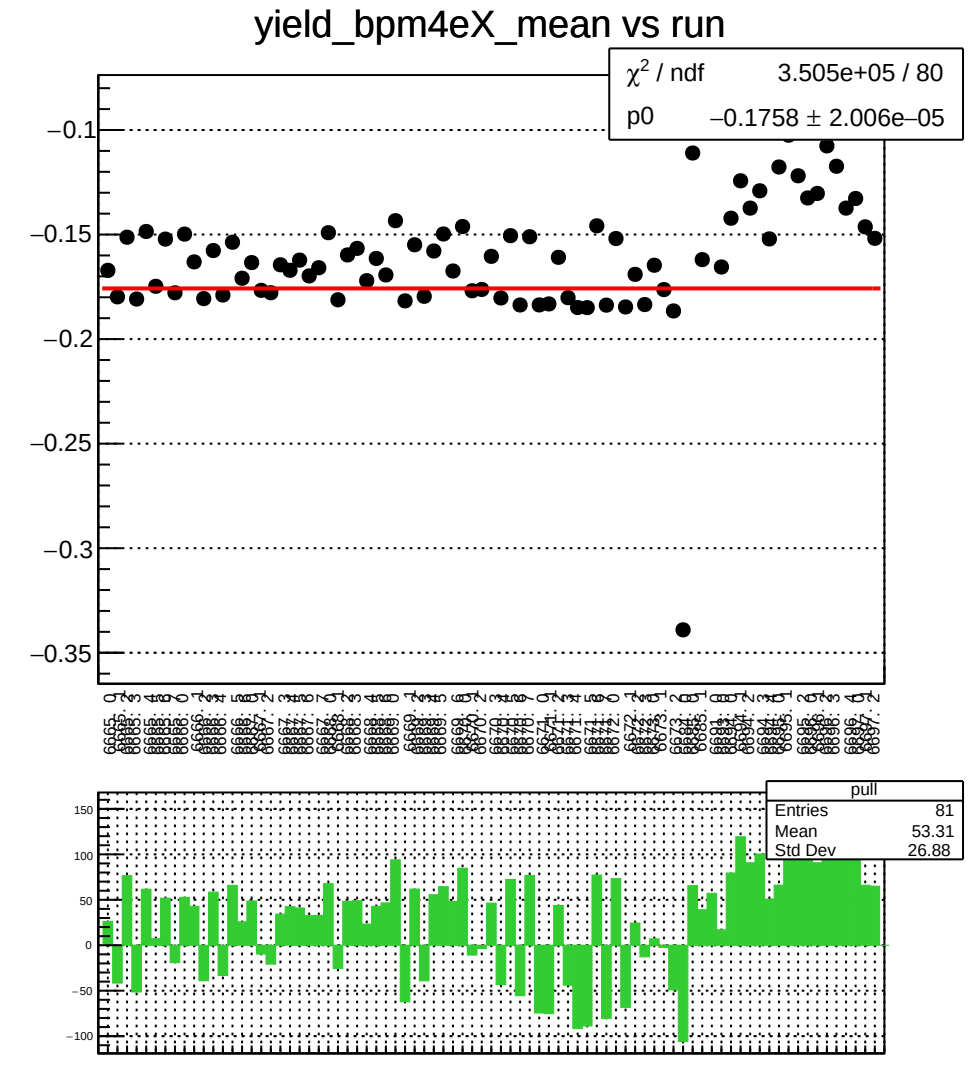

yield_bpm4aX_mean vs run
χ² / ndf 3.853e+05 / 80
p0 −0.5703 ± 2.238e−05
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 81
Mean 54.13
Std Dev 27.16
150
100
50
0
−50
−100
pull1D
Entries 81
Mean −0.2396
Std Dev 4.326
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

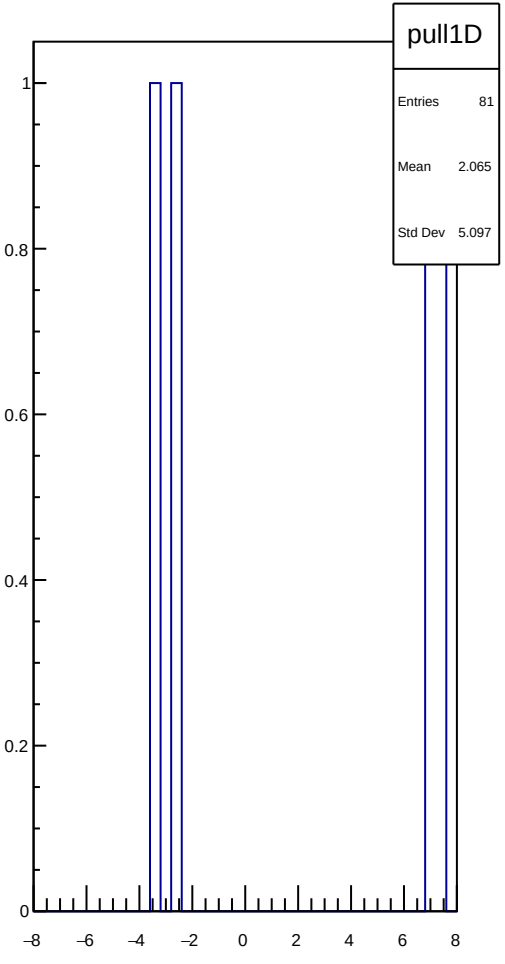

yield_bpm4aX_rms vs run
χ² / ndf 4.713e+05 / 80
p0 0.01635 ± 1.582e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

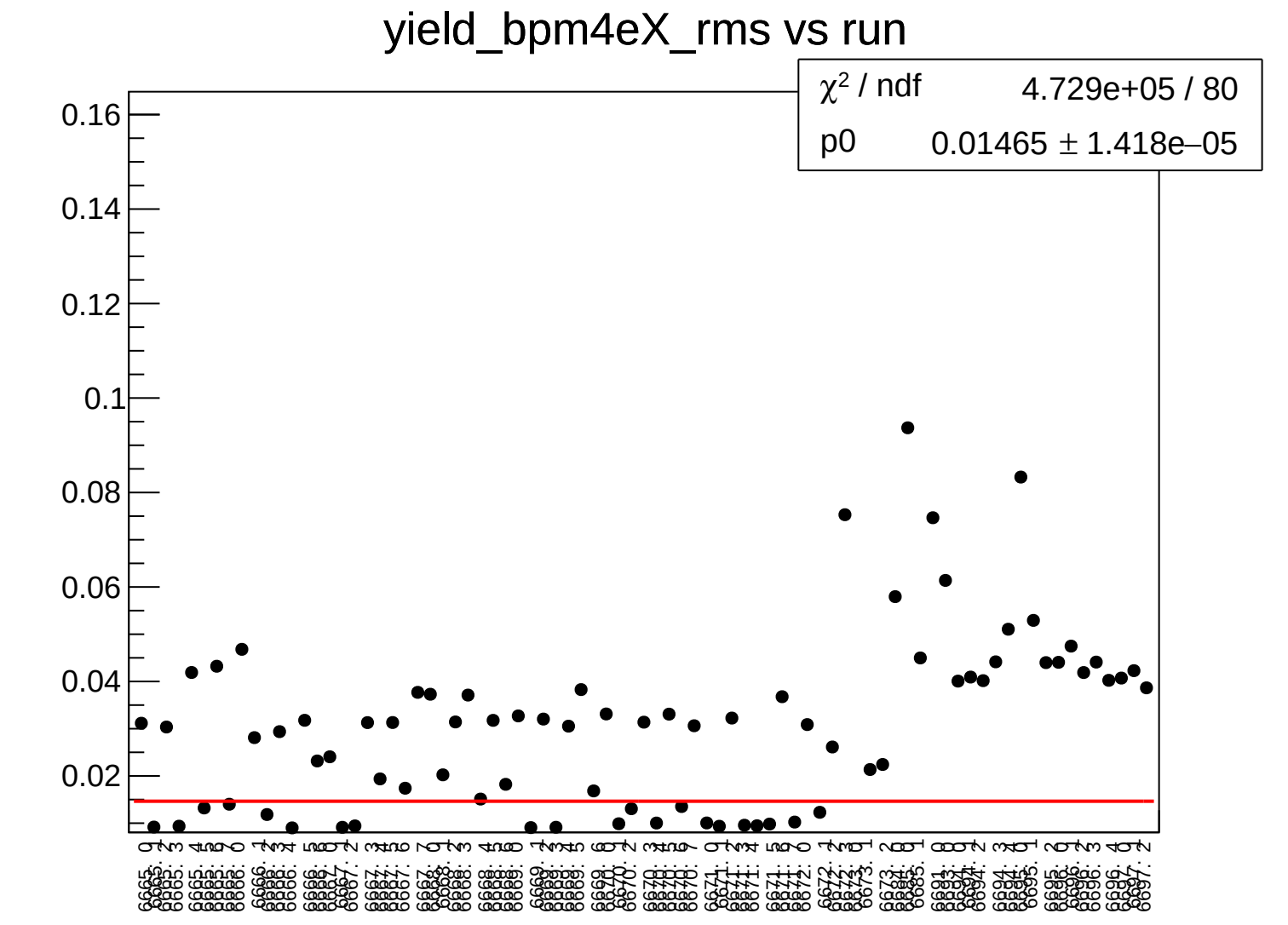

yield_bpm4aY_mean vs run
χ² / ndf 1.525e+05 / 80
p0 0.6203 ± 1.255e−05
0.66
0.65
0.64
0.63
0.62
0.61
0.6
0.59
pull
Entries 81
Mean 497.4
Std Dev 448
100
50
0
−50
−100

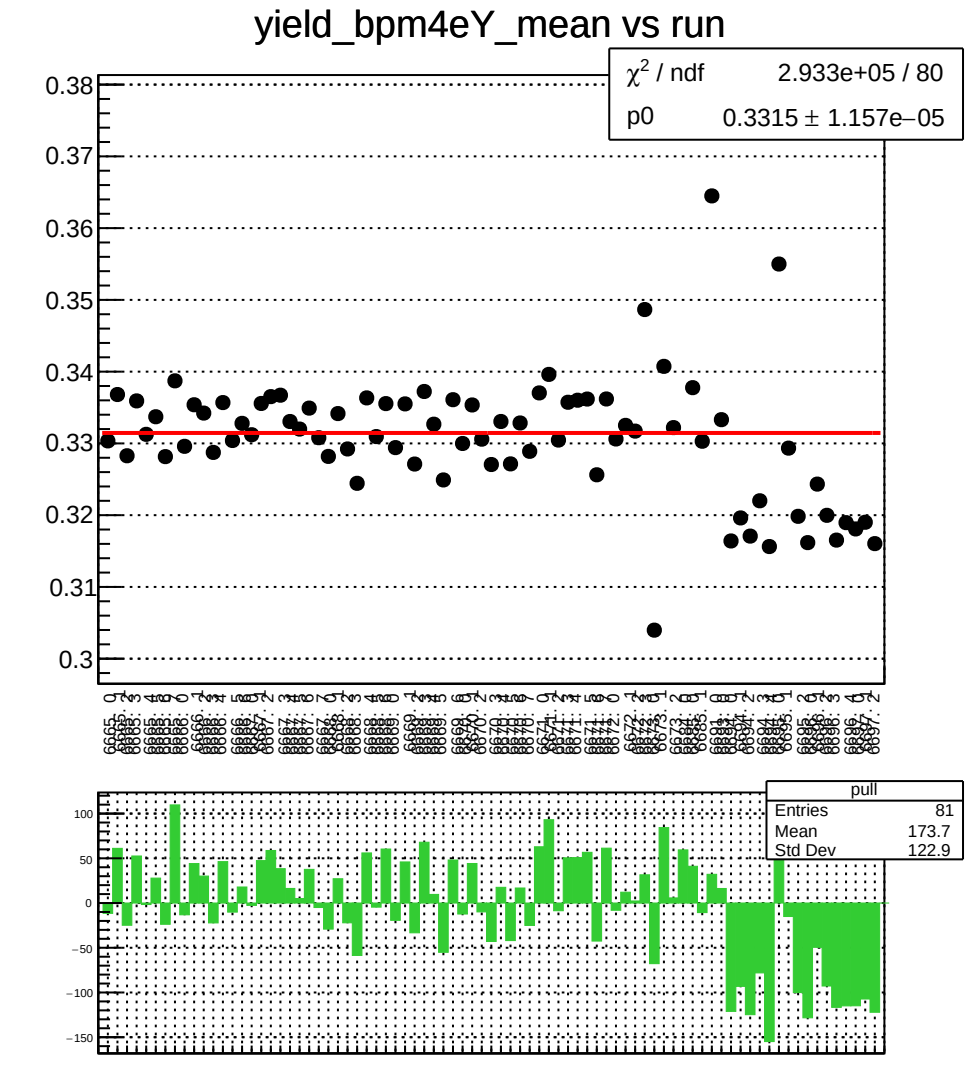

pull1D
Entries 81
Mean −2.481
Std Dev 4.033
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

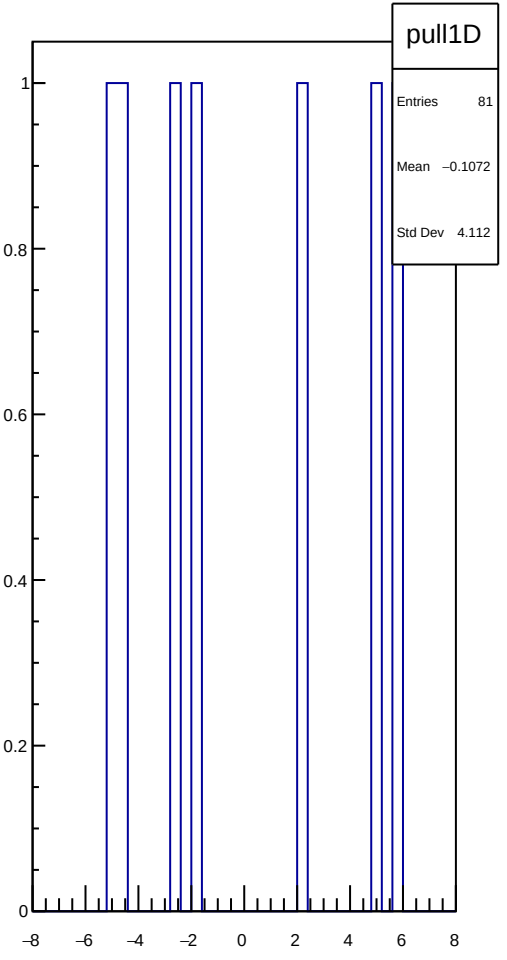

yield_bpm4aY_rms vs run
χ² / ndf 6.348e+04 / 80
p0 0.01079 ± 8.876e–06
0.06
0.05
0.04
0.03
0.02
0.01

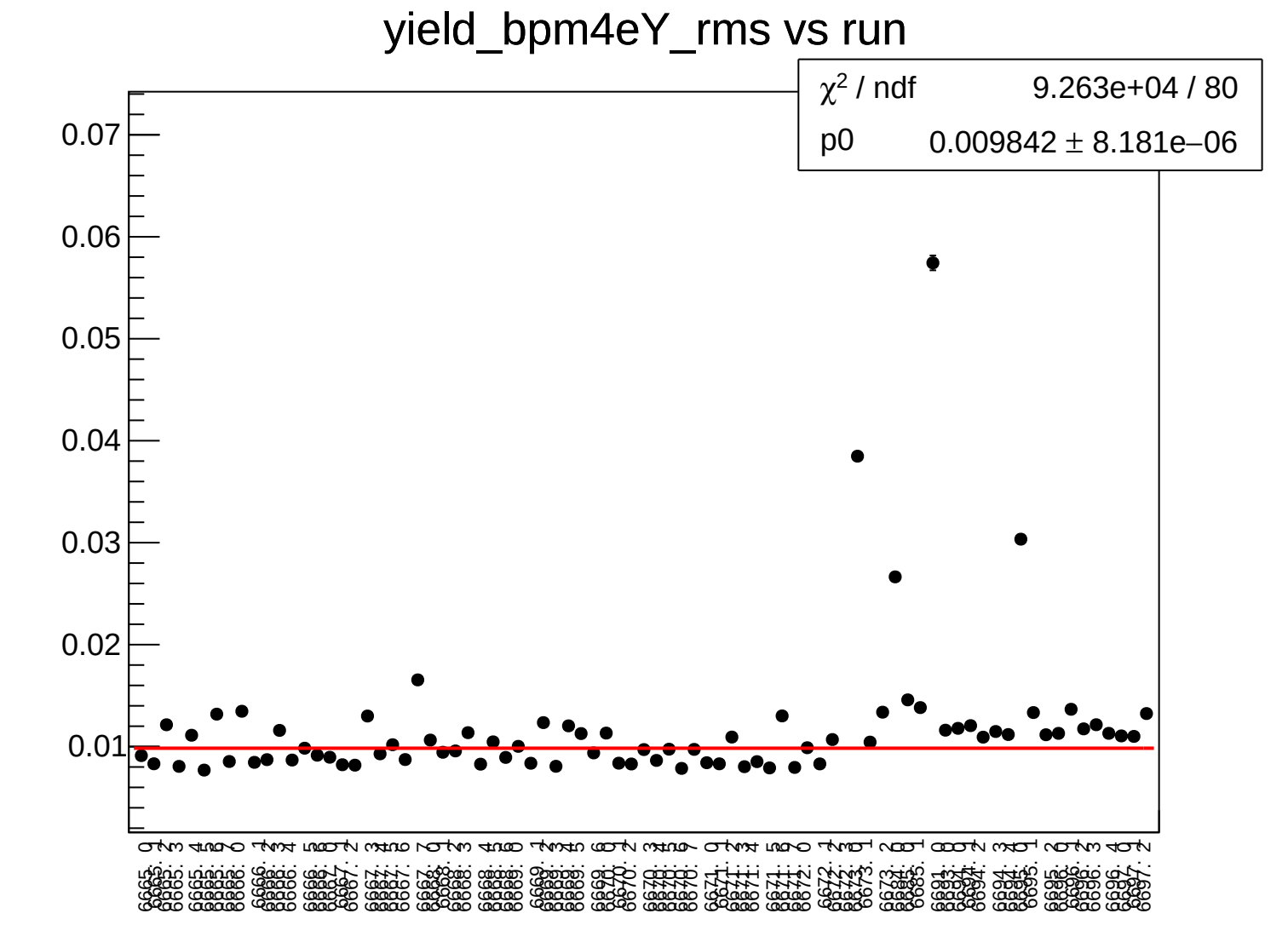

yield_bpm4eX_mean vs run
χ² / ndf 3.505e+05 / 80
p0 −0.1758 ± 2.006e−05
pull
Entries 81
Mean 53.31
Std Dev 26.88

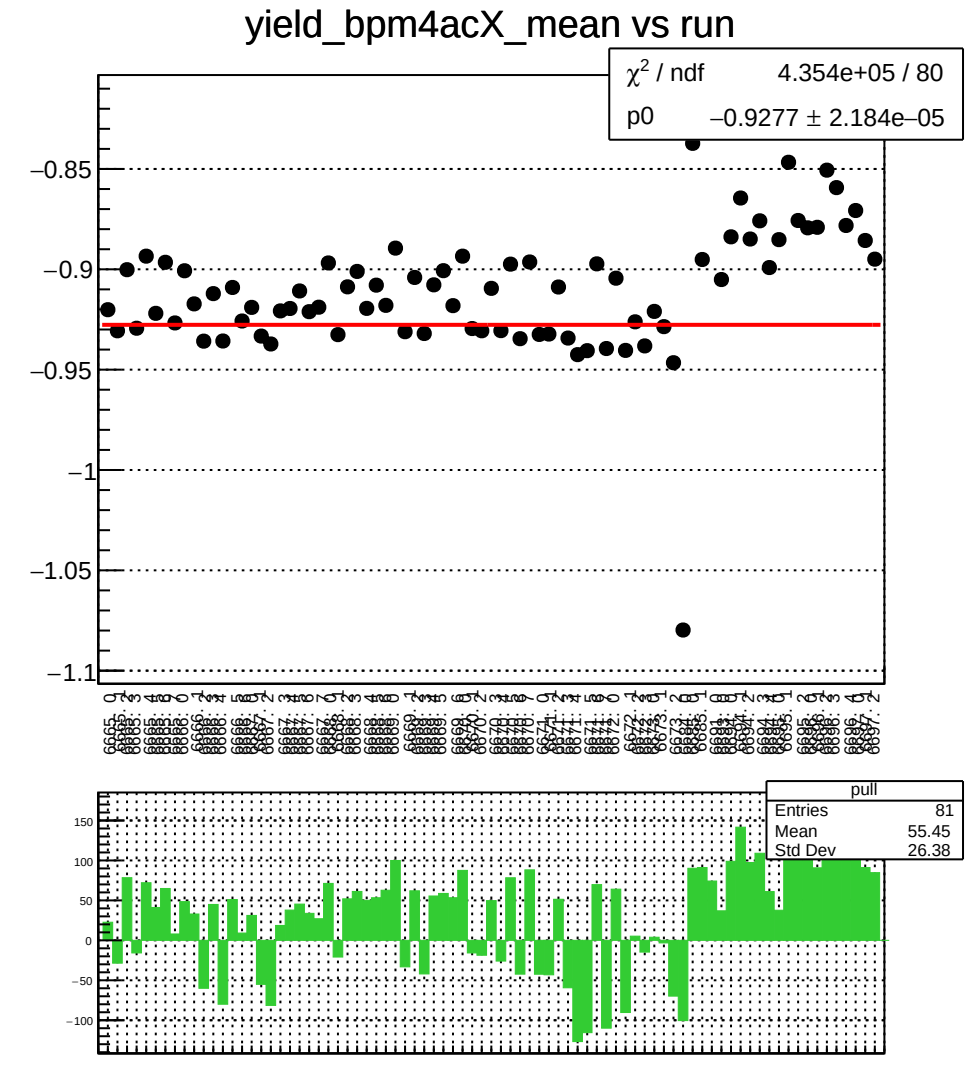

pull1D
Entries 81
Mean 2.065
Std Dev 5.097

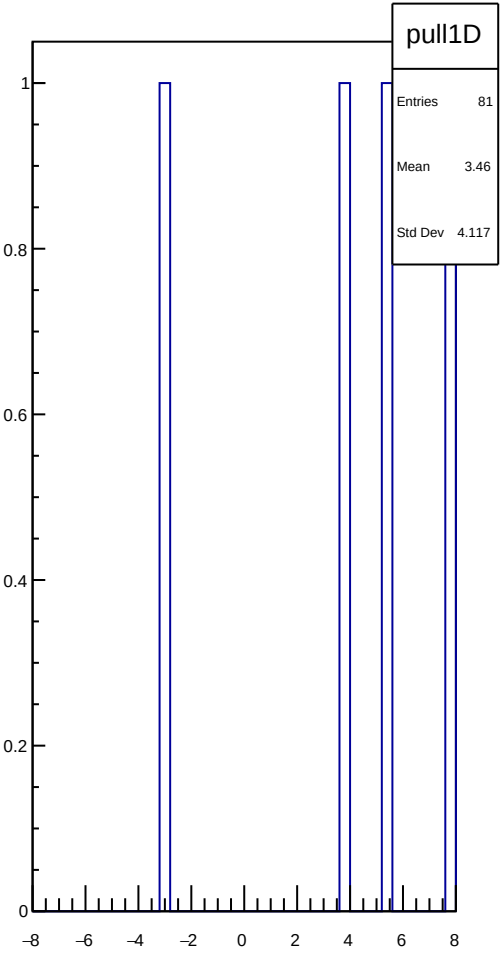

yield_bpm4eX_rms vs run
χ² / ndf 4.729e+05 / 80
p0 0.01465 ± 1.418e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

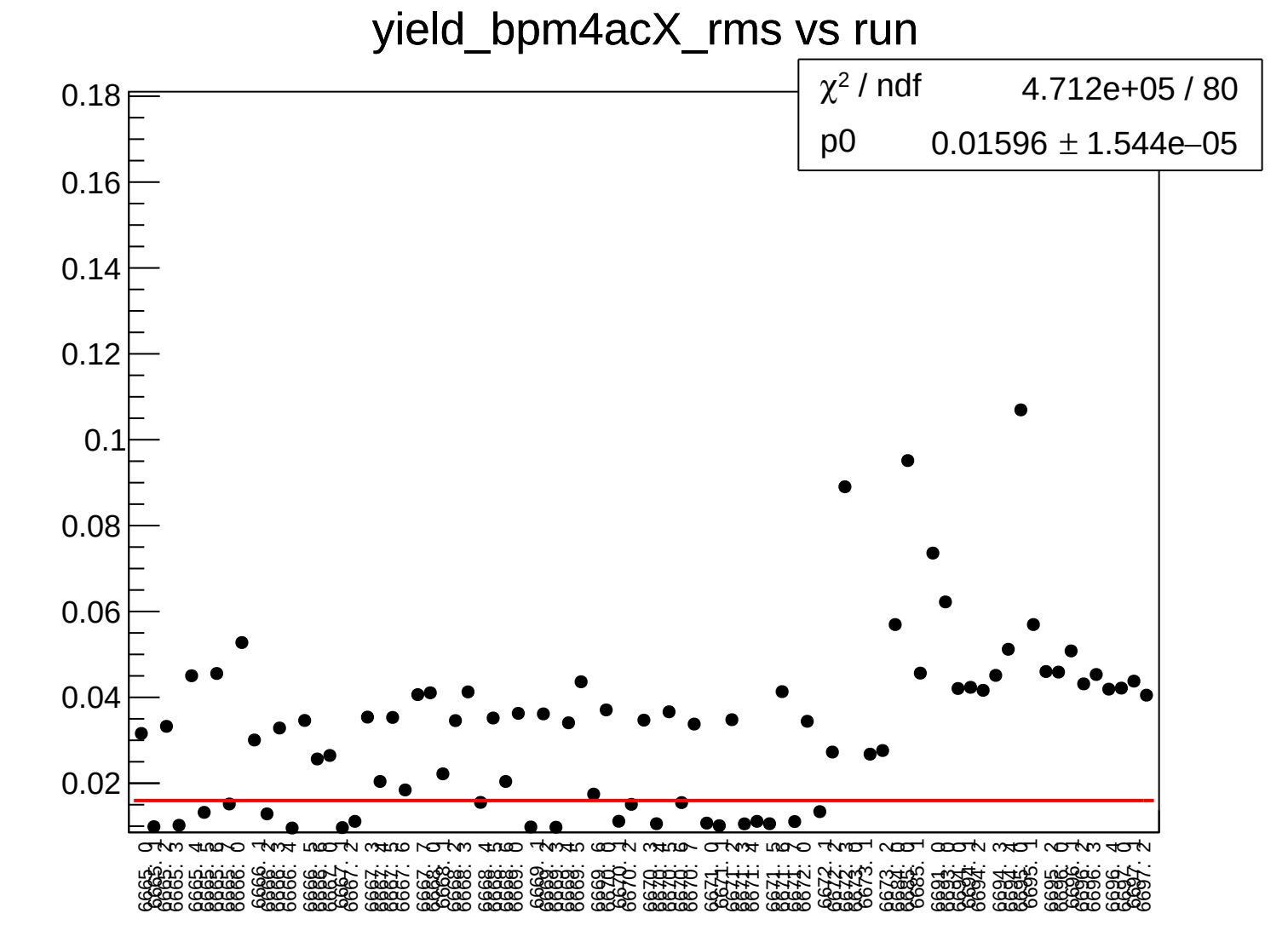

yield_bpm4eY_mean vs run
χ² / ndf 2.933e+05 / 80
p0 0.3315 ± 1.157e−05
0.38
0.37
0.36
0.35
0.34
0.33
0.32
0.31
0.3
pull
Entries 81
Mean 173.7
Std Dev 122.9
100
50
0
−50
−100
−150

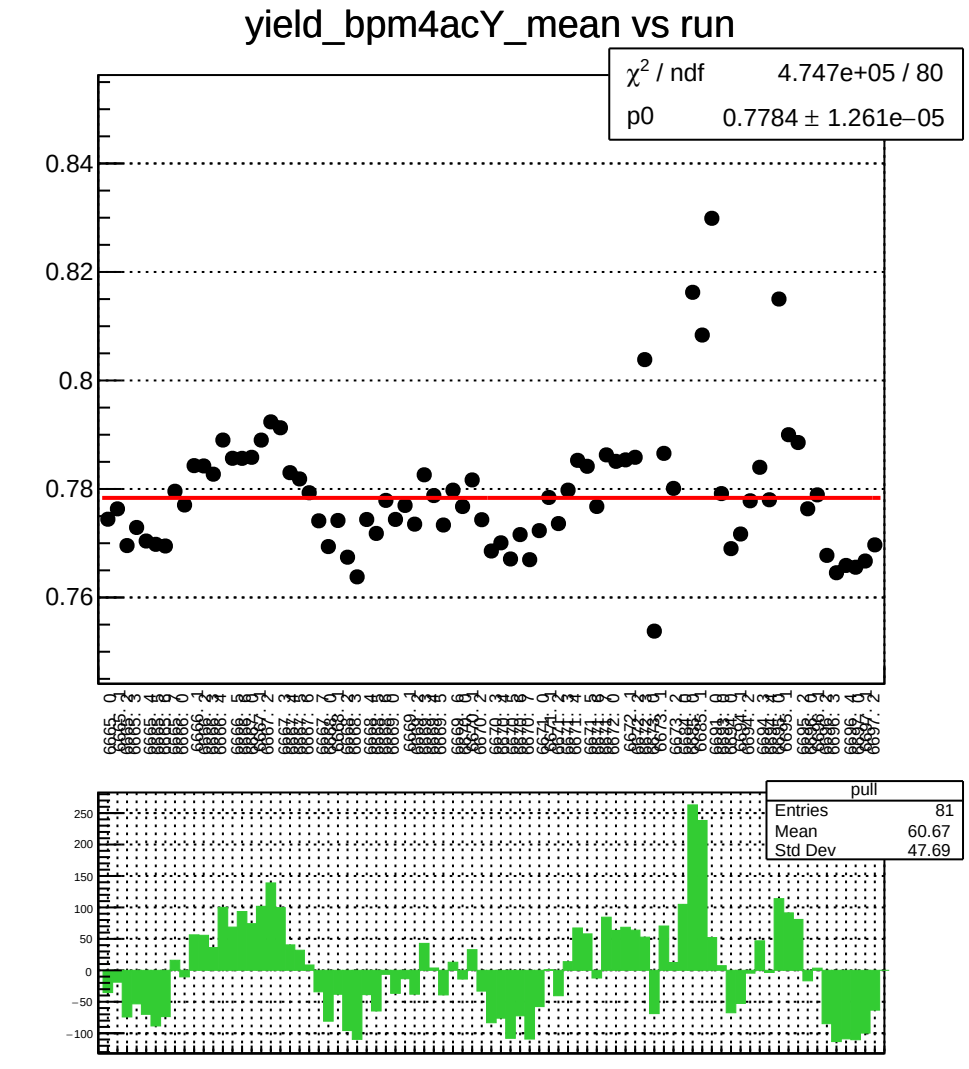

pull1D
Entries 81
Mean −0.1072
Std Dev 4.112
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

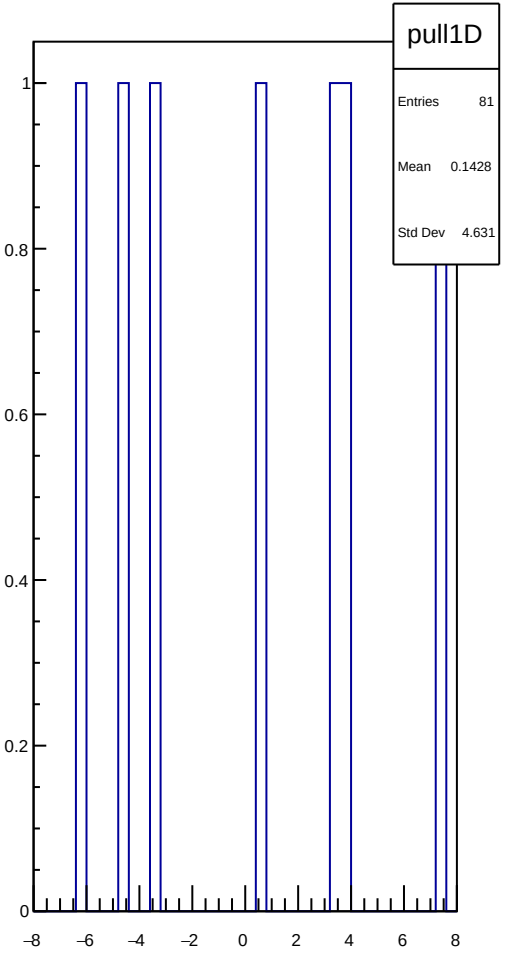

yield_bpm4eY_rms vs run
χ² / ndf 9.263e+04 / 80
p0 0.009842 ± 8.181e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

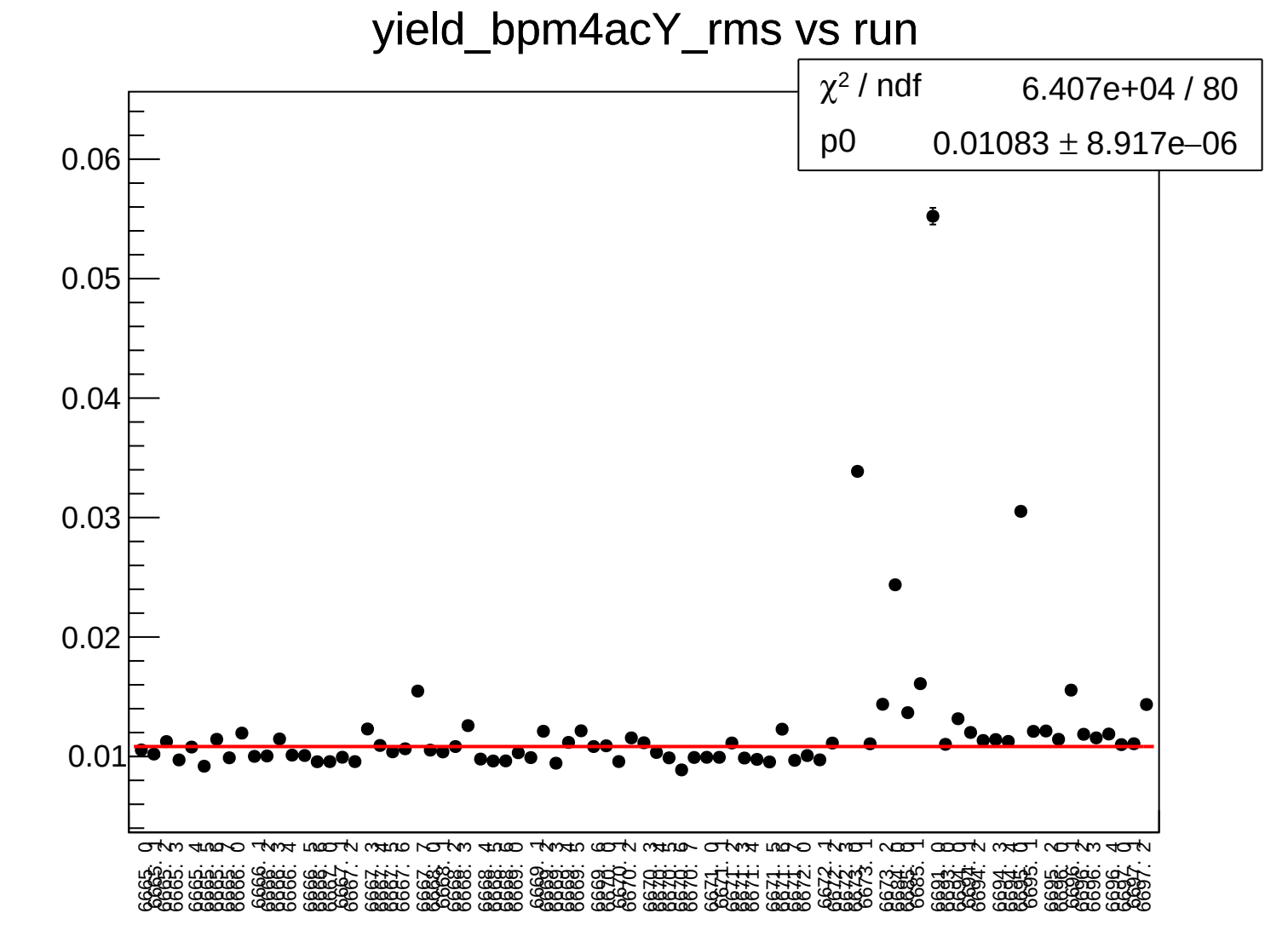

yield_bpm4acX_mean vs run
χ² / ndf 4.354e+05 / 80
p0 −0.9277 ± 2.184e−05
−0.85
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 81
Mean 55.45
Std Dev 26.38
150
100
50
0
−50
−100

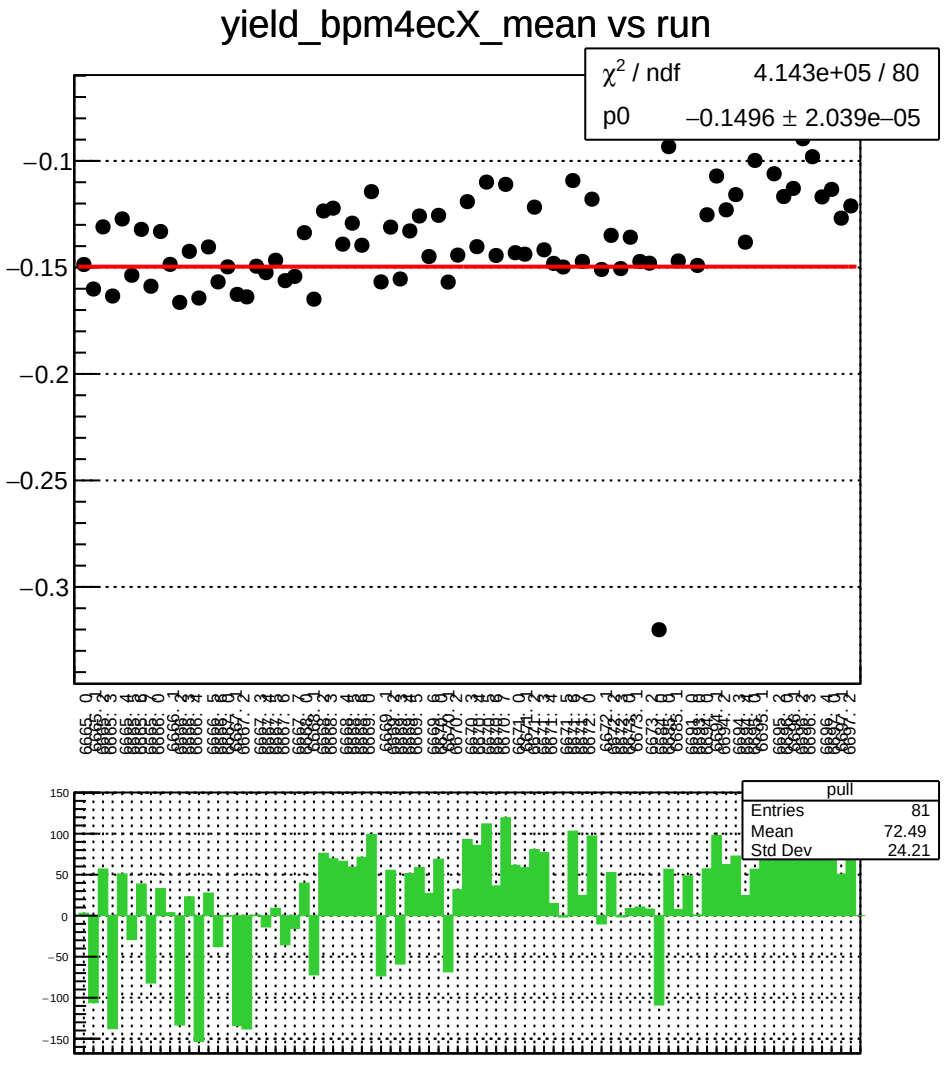

pull1D
Entries 81
Mean 3.46
Std Dev 4.117
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

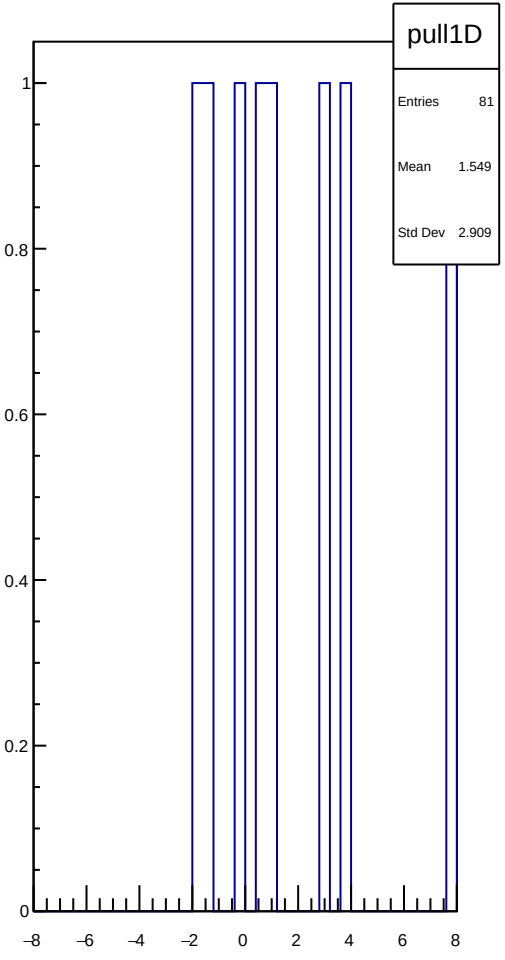

yield_bpm4acX_rms vs run
χ² / ndf 4.712e+05 / 80
p0 0.01596 ± 1.544e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

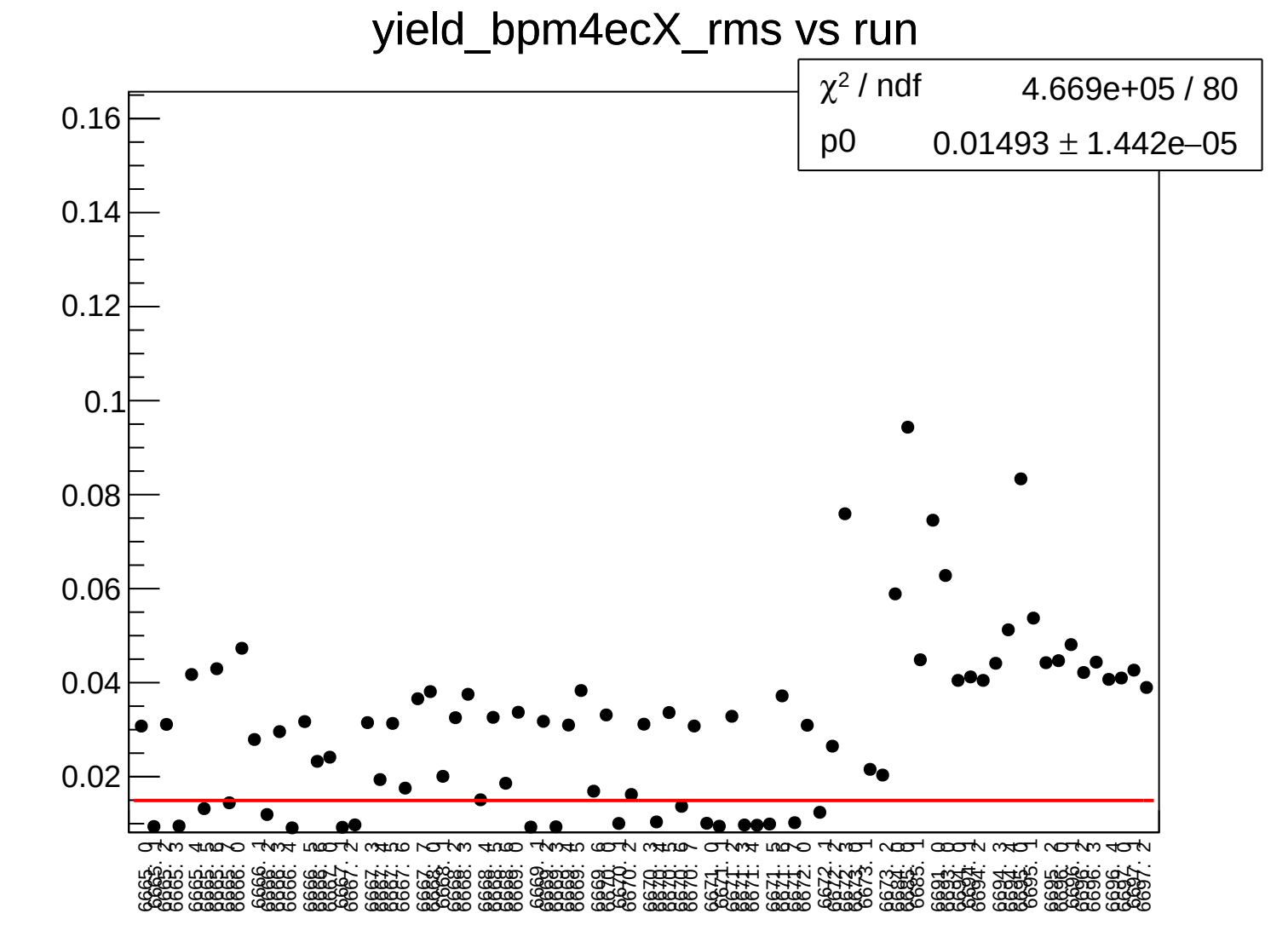

yield_bpm4acY_mean vs run
χ² / ndf 4.747e+05 / 80
p0 0.7784 ± 1.261e−05
0.84
0.82
0.8
0.78
0.76
pull
Entries 81
Mean 60.67
Std Dev 47.69
250
200
150
100
50
0
−50
−100

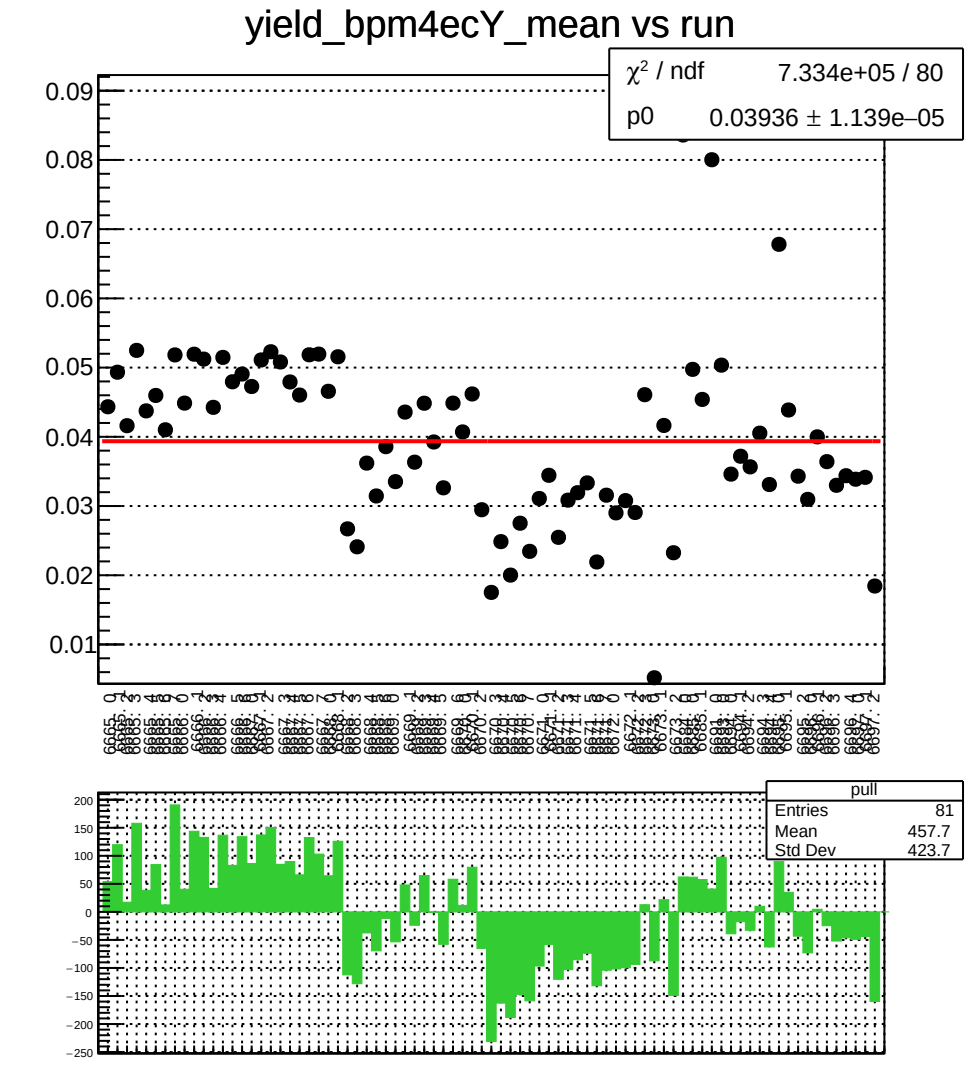

pull1D
Entries 81
Mean 0.1428
Std Dev 4.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

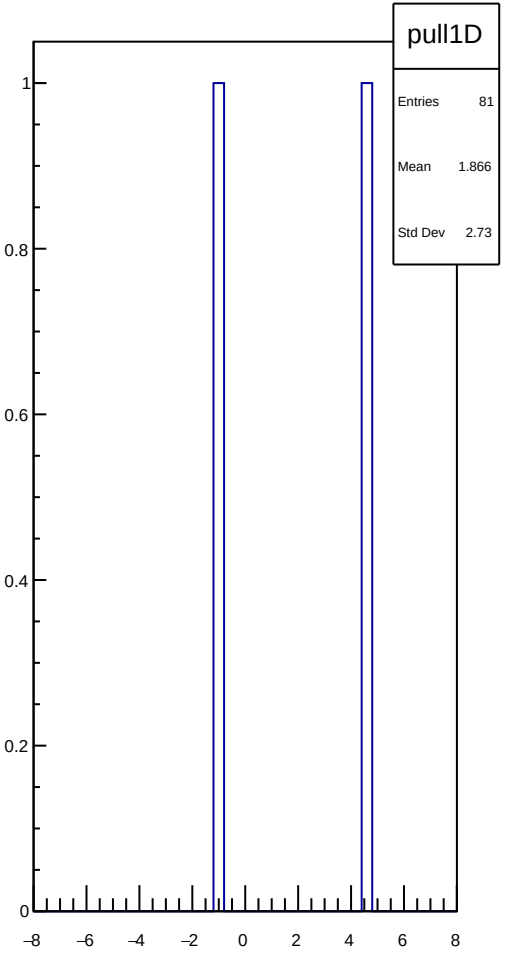

yield_bpm4acY_rms vs run
χ² / ndf 6.407e+04 / 80
p0 0.01083 ± 8.917e–06
0.06
0.05
0.04
0.03
0.02
0.01

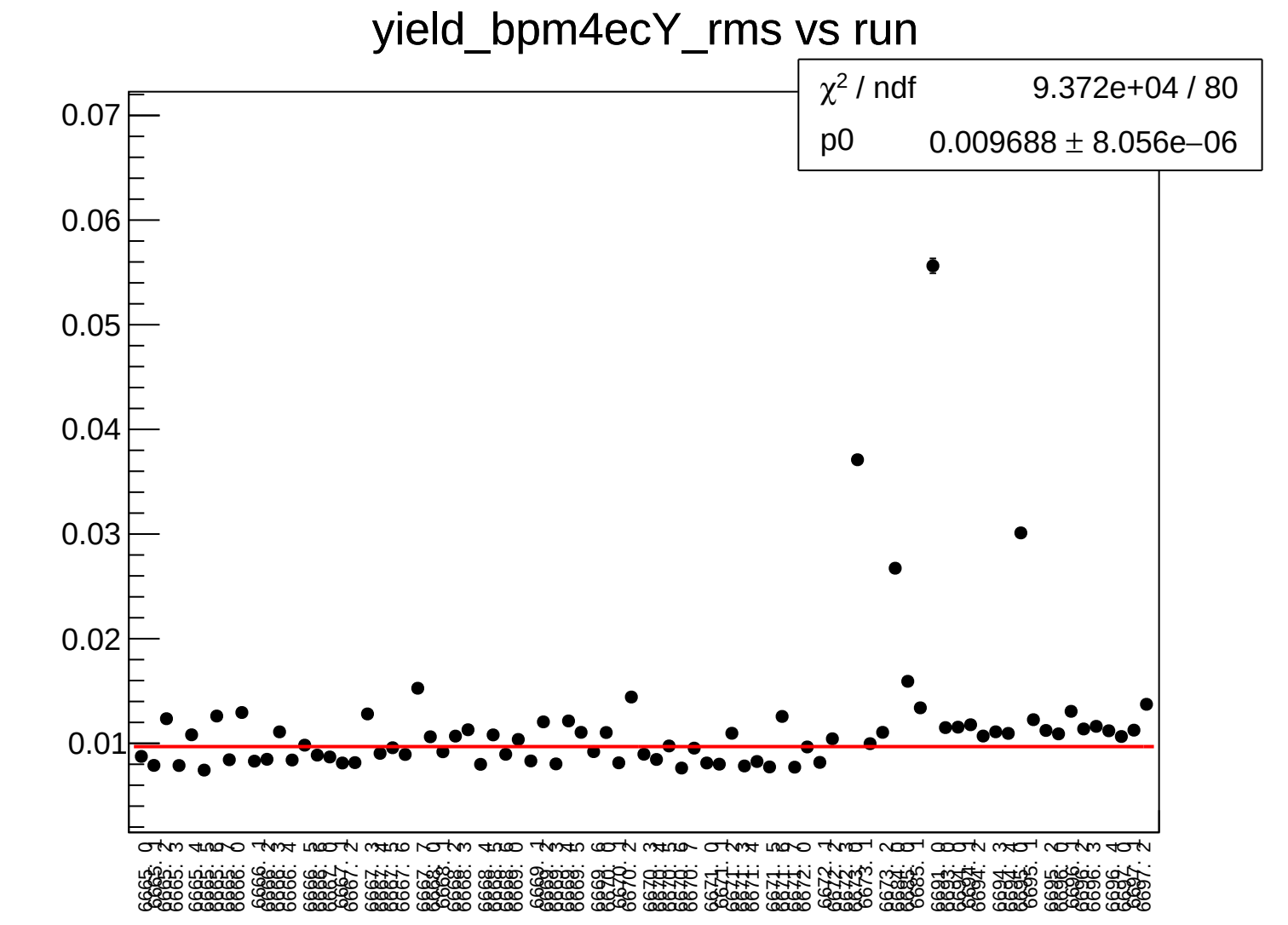

yield_bpm4ecX_mean vs run
χ² / ndf 4.143e+05 / 80
p0 −0.1496 ± 2.039e−05
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 81
Mean 72.49
Std Dev 24.21
150
100
50
0
−50
−100
−150

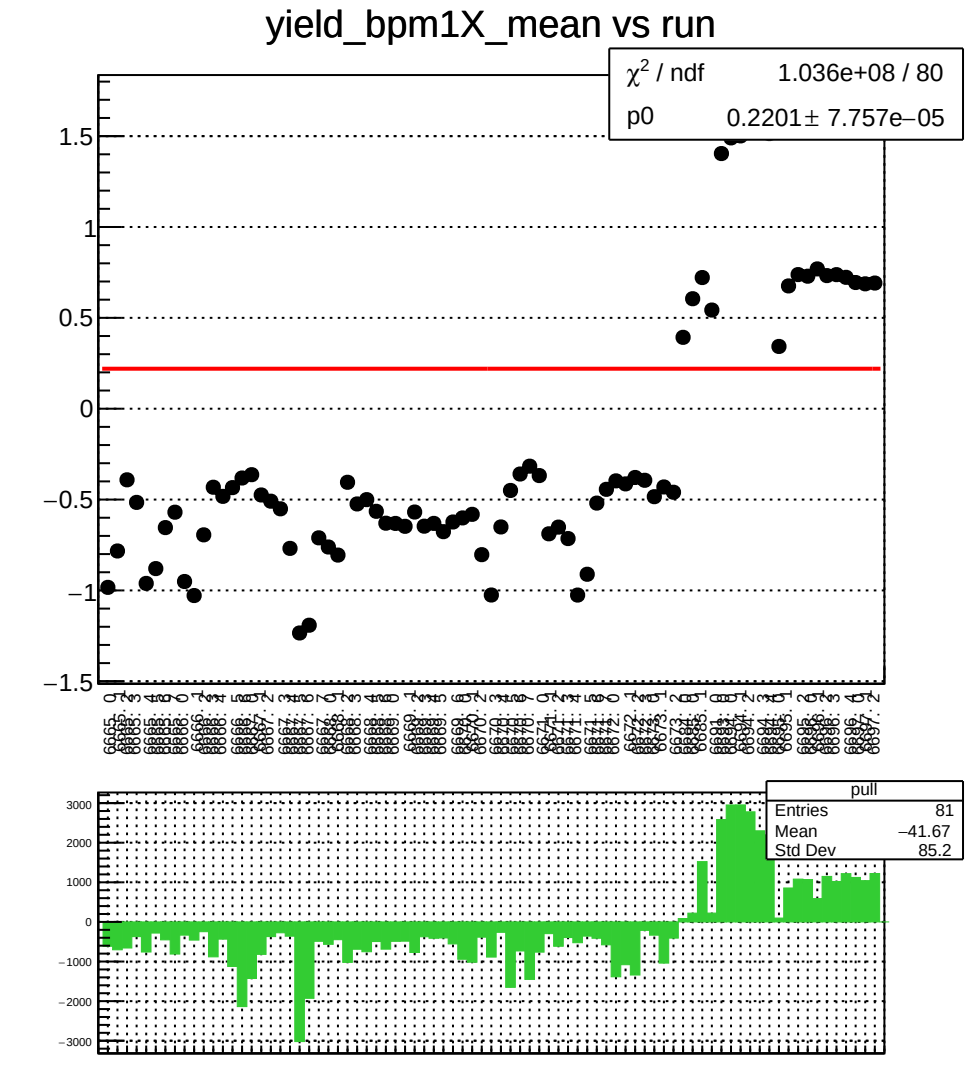

pull1D
Entries 81
Mean 1.549
Std Dev 2.909
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

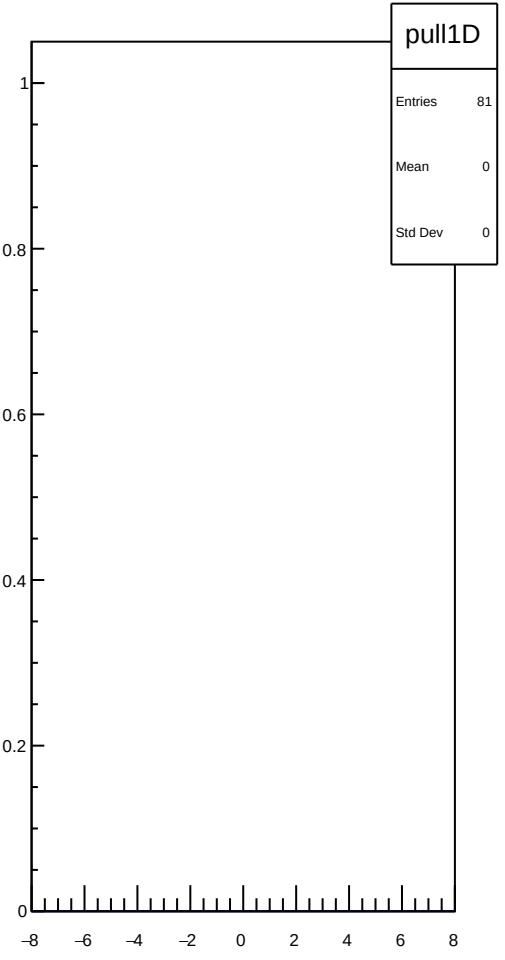

yield_bpm4ecX_rms vs run
χ² / ndf 4.669e+05 / 80
p0 0.01493 ± 1.442e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

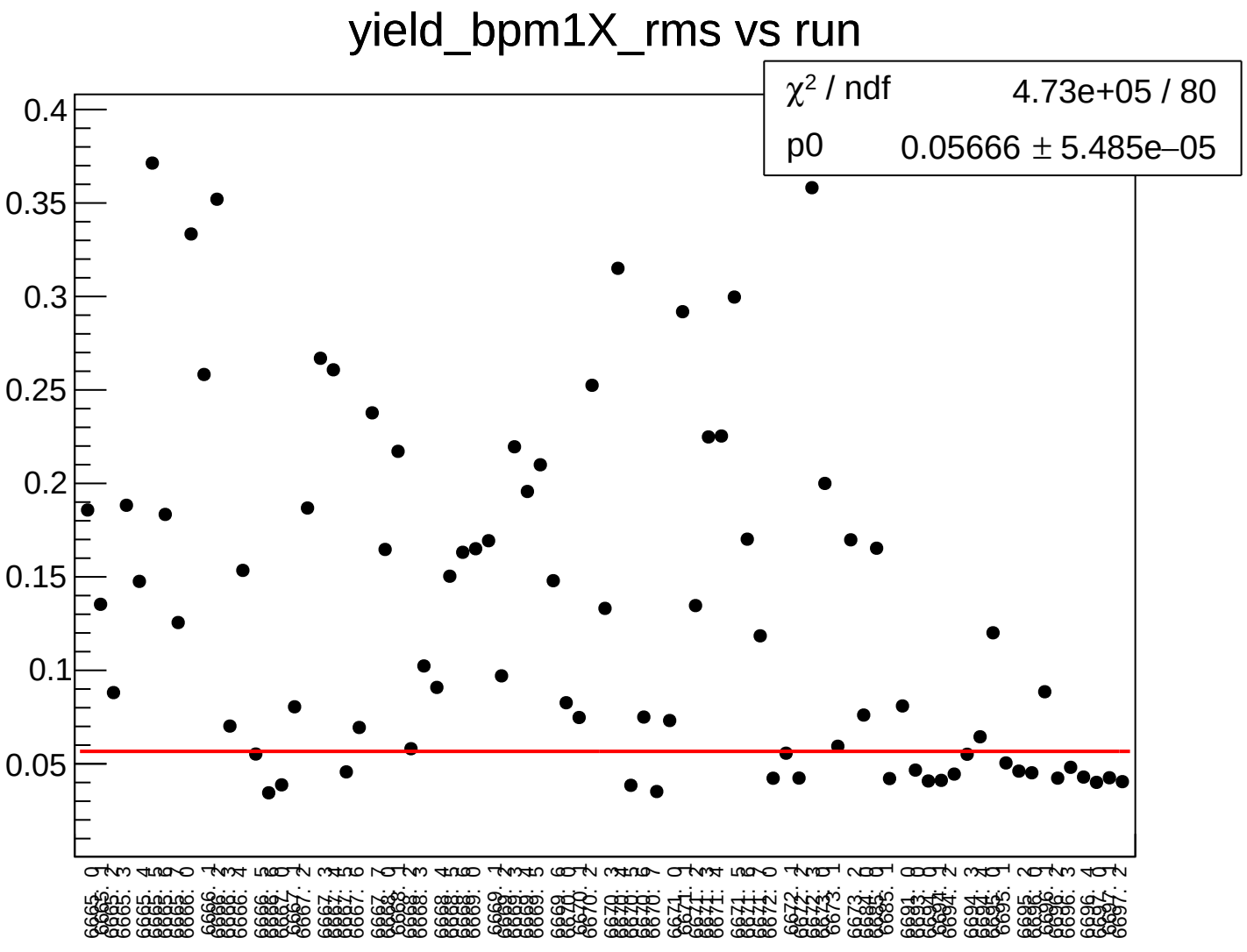

yield_bpm4ecY_mean vs run
χ² / ndf 7.334e+05 / 80
p0 0.03936 ± 1.139e−05
pull
Entries 81
Mean 457.7
Std Dev 423.7

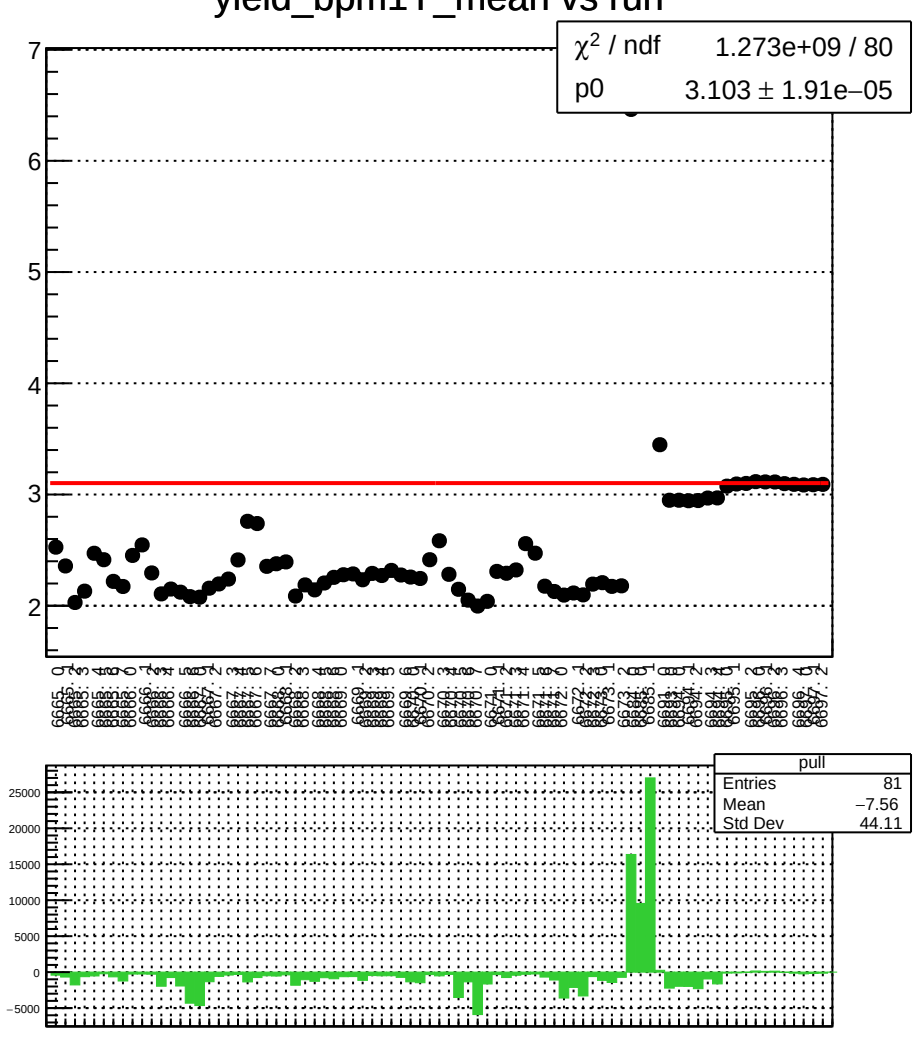

pull1D
Entries 81
Mean 1.866
Std Dev 2.73

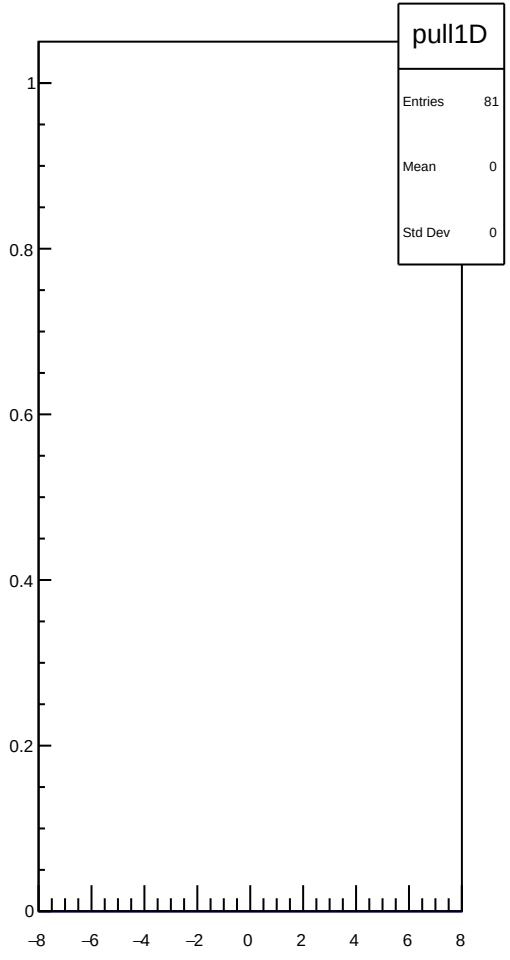

yield_bpm4ecY_rms vs run
χ² / ndf 9.372e+04 / 80
p0 0.009688 ± 8.056e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

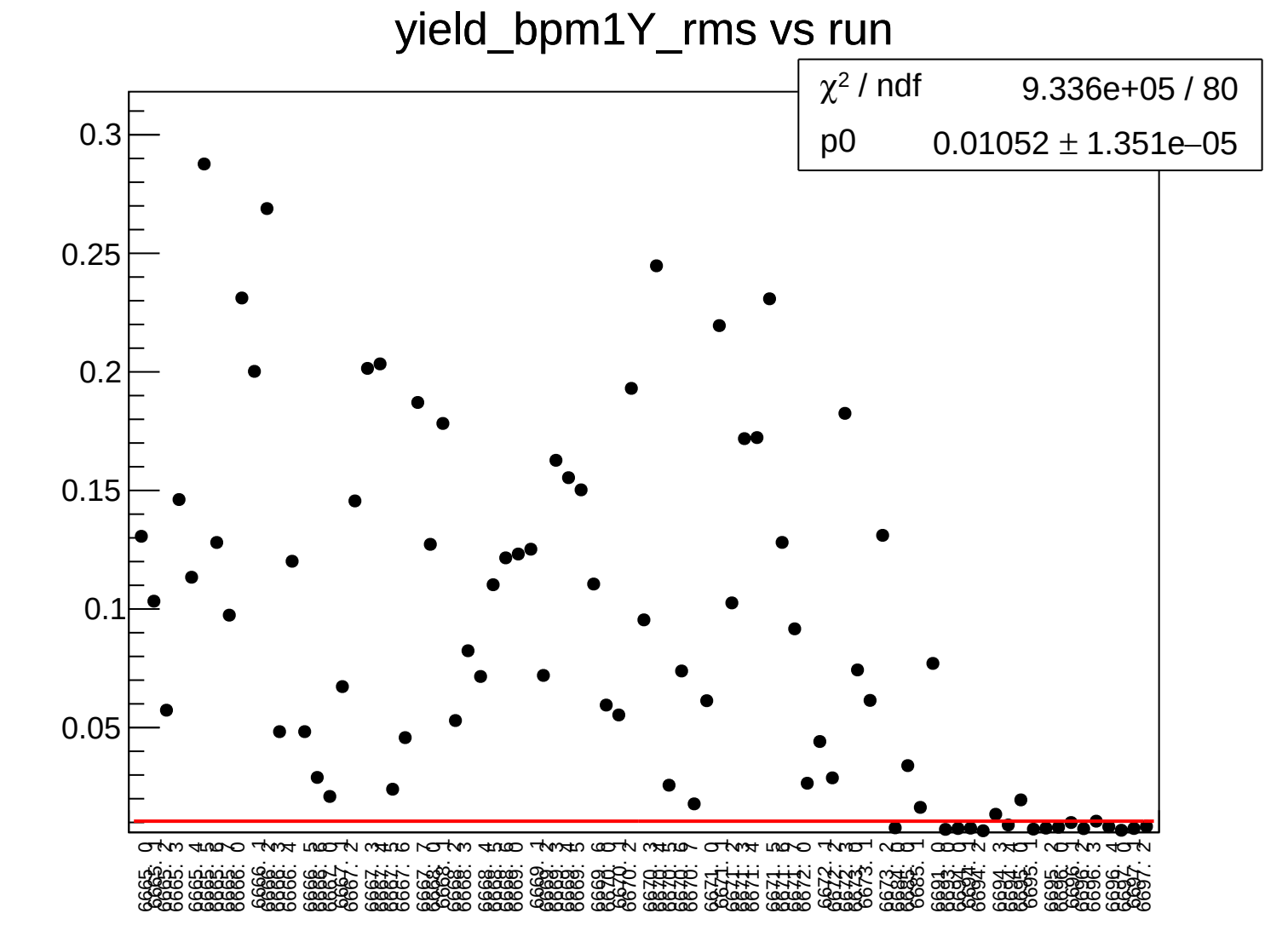

yield_bpm1X_mean vs run
χ² / ndf 1.036e+08 / 80
p0 0.2201 ± 7.757e−05
pull
Entries 81
Mean −41.67
Std Dev 85.2

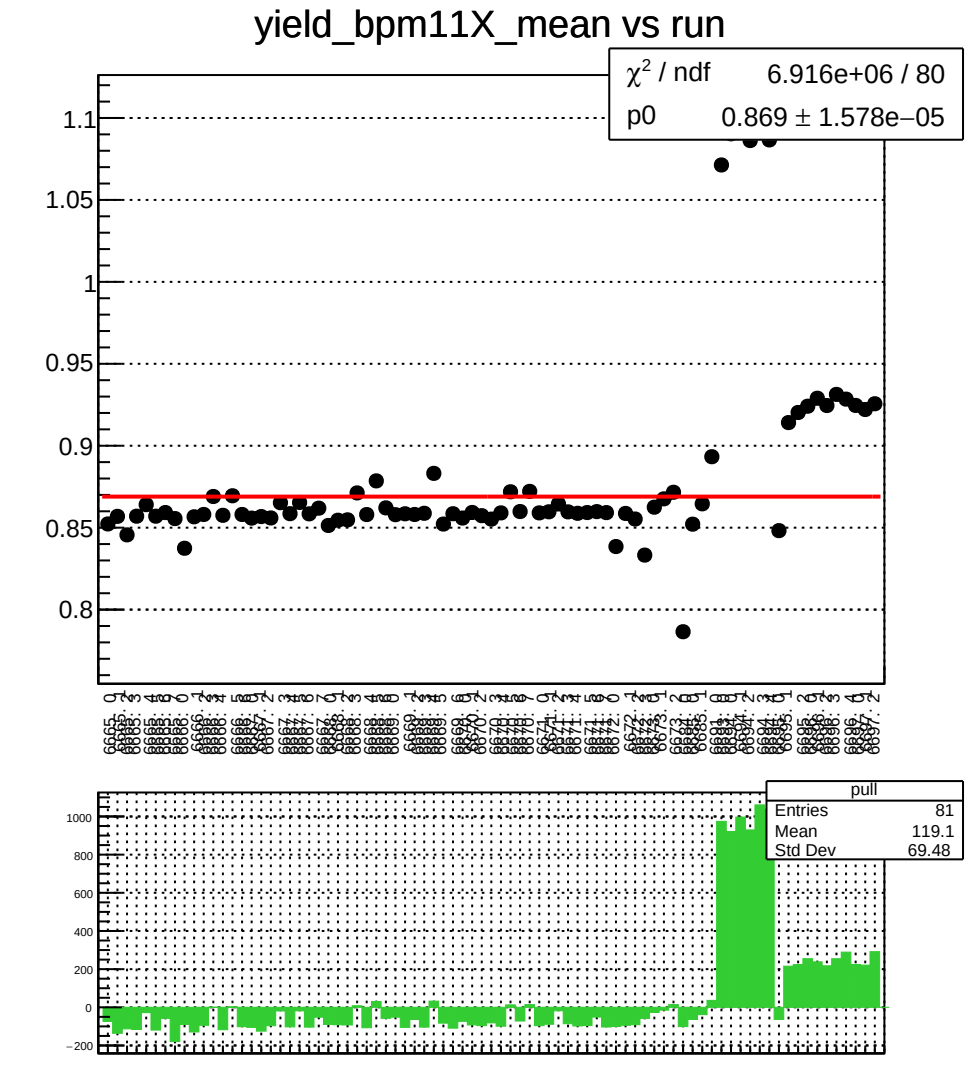

pull1D
Entries 81
Mean 0
Std Dev 0

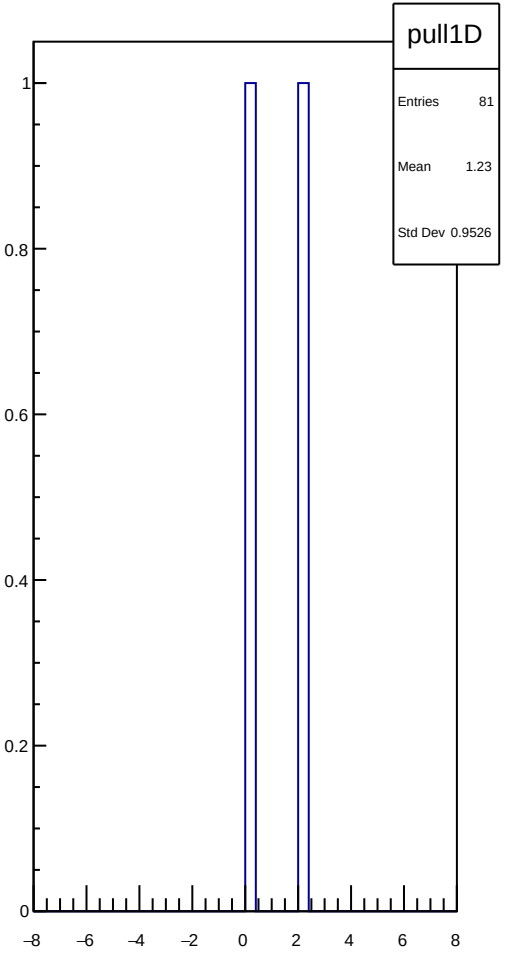

yield_bpm1X_rms vs run
χ² / ndf 4.73e+05 / 80
p0 0.05666 ± 5.485e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

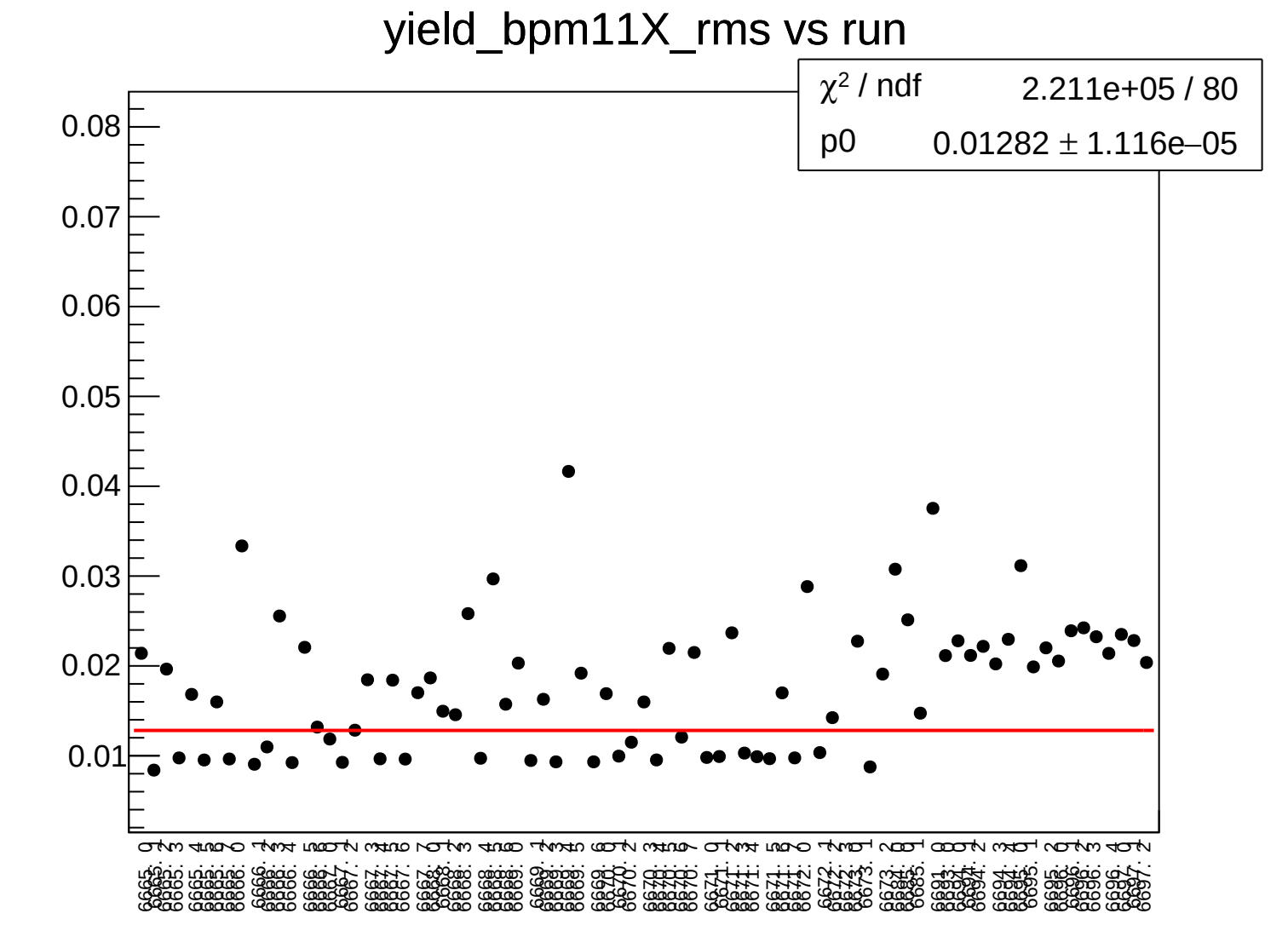

yield_bpm1Y_mean vs run
χ² / ndf 1.273e+09 / 80
p0 3.103 ± 1.91e−05
pull
Entries 81
Mean −7.56
Std Dev 44.11

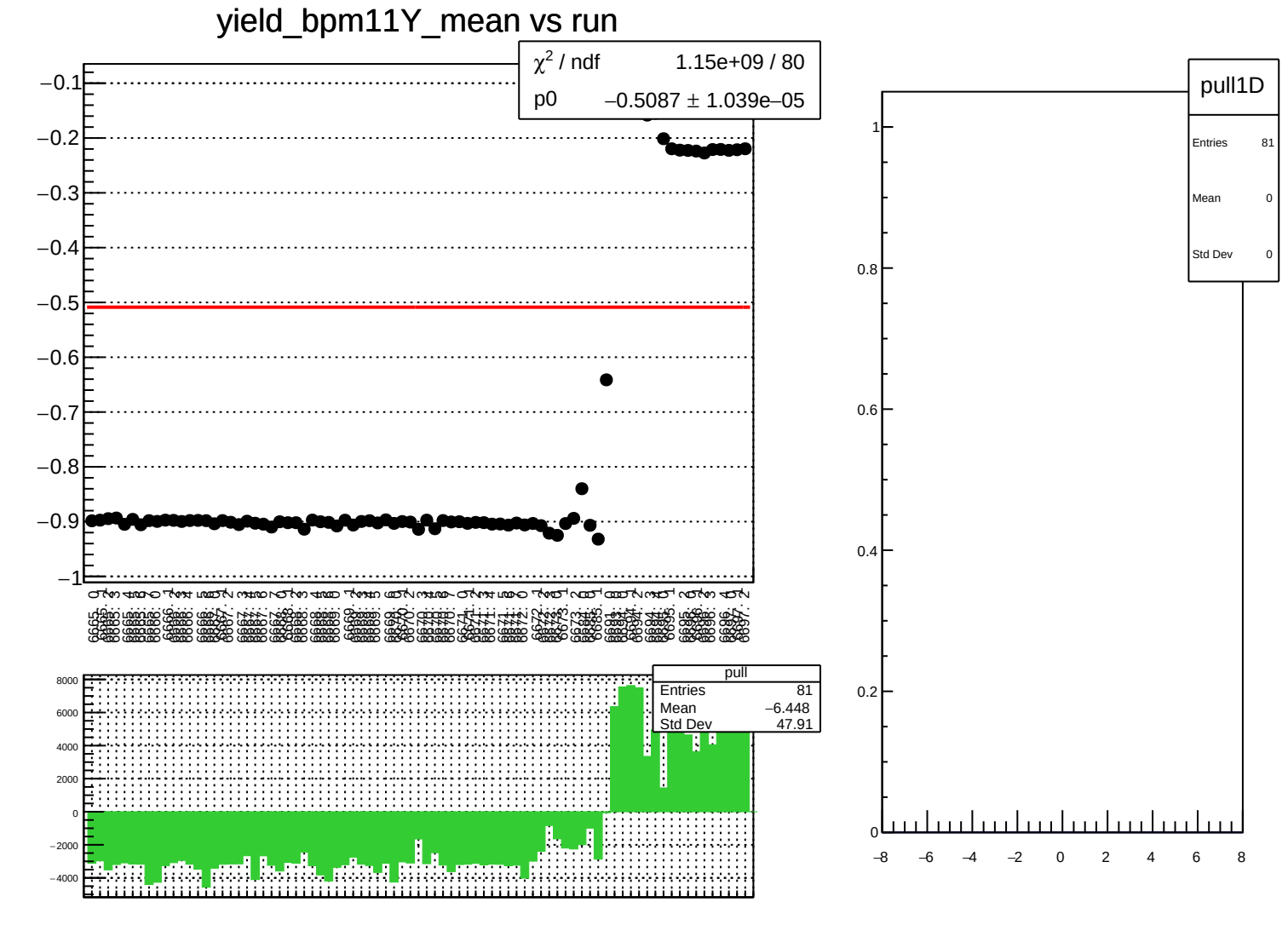

pull1D
Entries 81
Mean 0
Std Dev 0

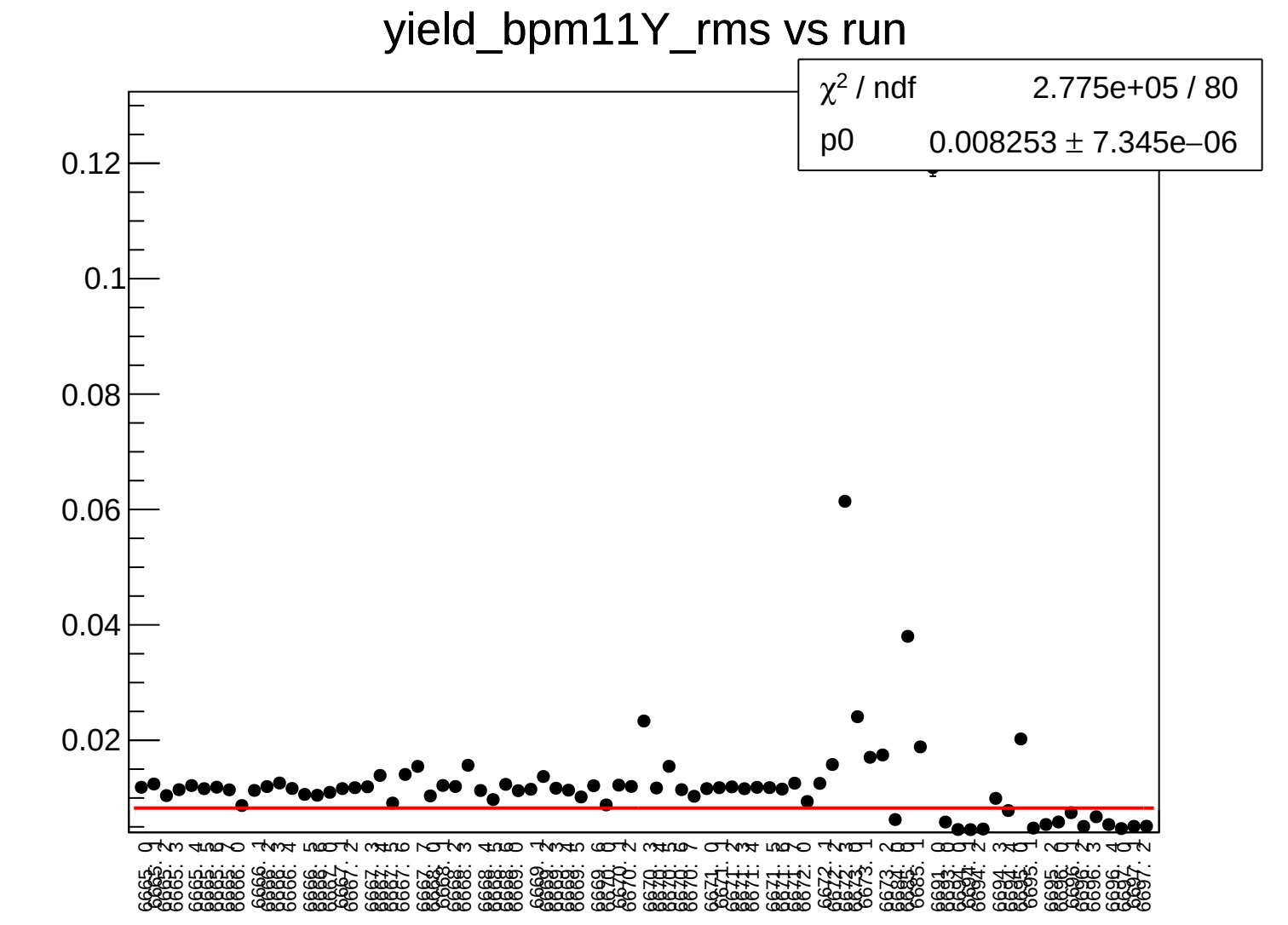

yield_bpm1Y_rms vs run
χ² / ndf 9.336e+05 / 80
p0 0.01052 ± 1.351e−05
0.3
0.25
0.2
0.15
0.1
0.05

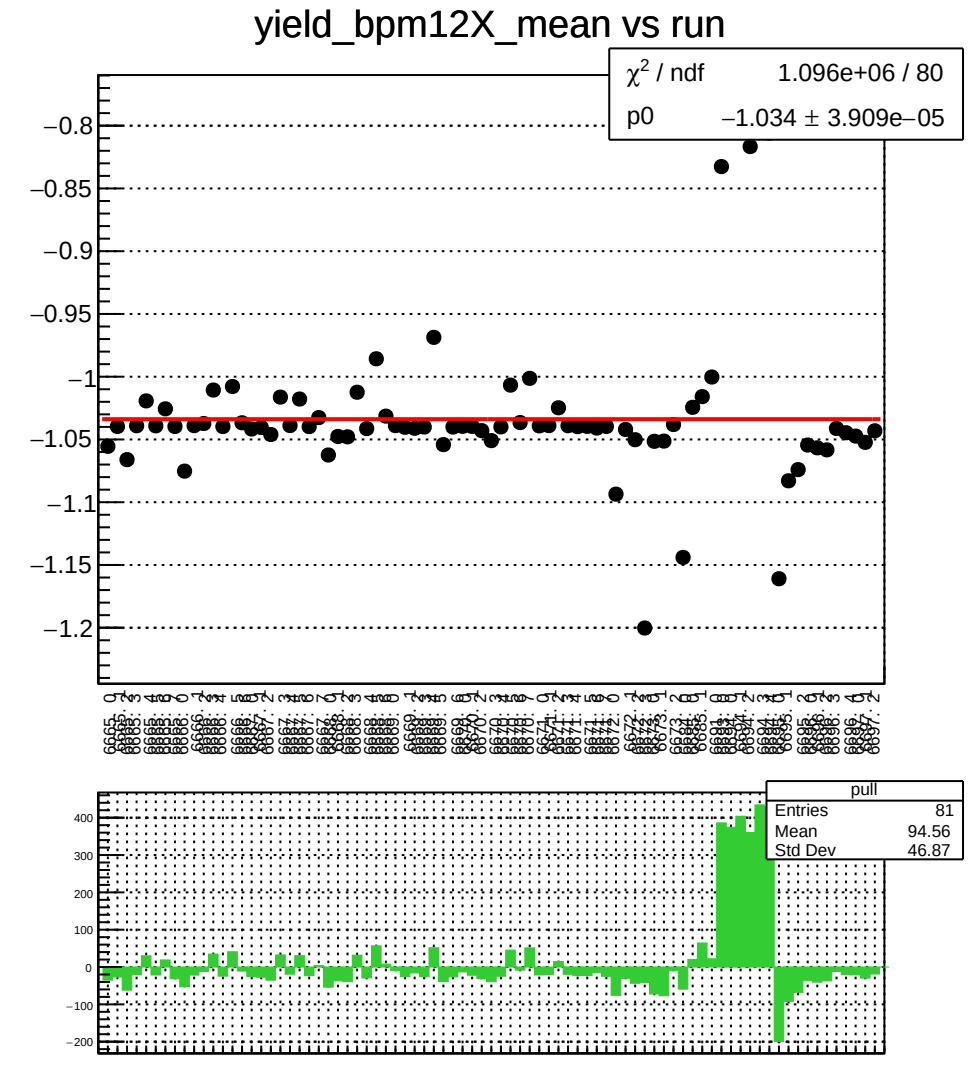

yield_bpm11X_mean vs run
χ² / ndf 6.916e+06 / 80
p0 0.869 ± 1.578e−05
pull
Entries 81
Mean 119.1
Std Dev 69.48

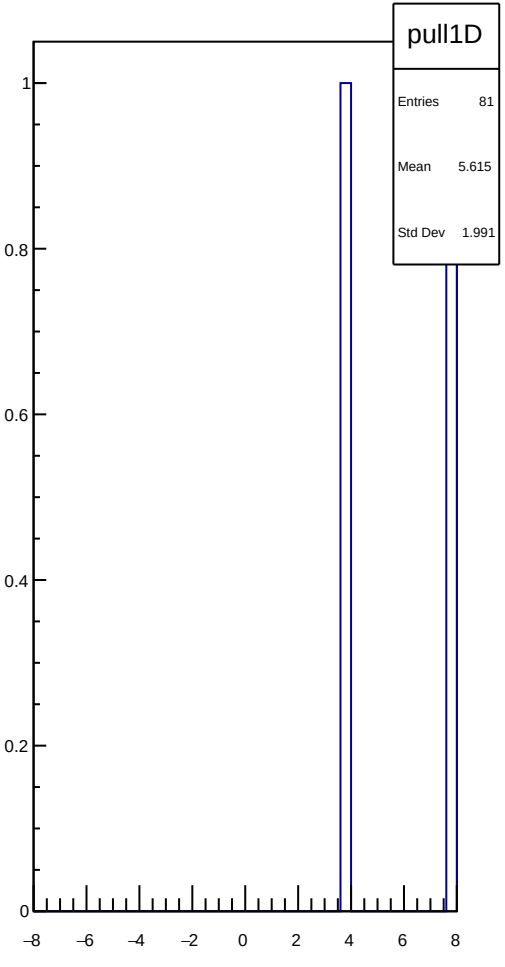

pull1D
Entries 81
Mean 1.23
Std Dev 0.9526

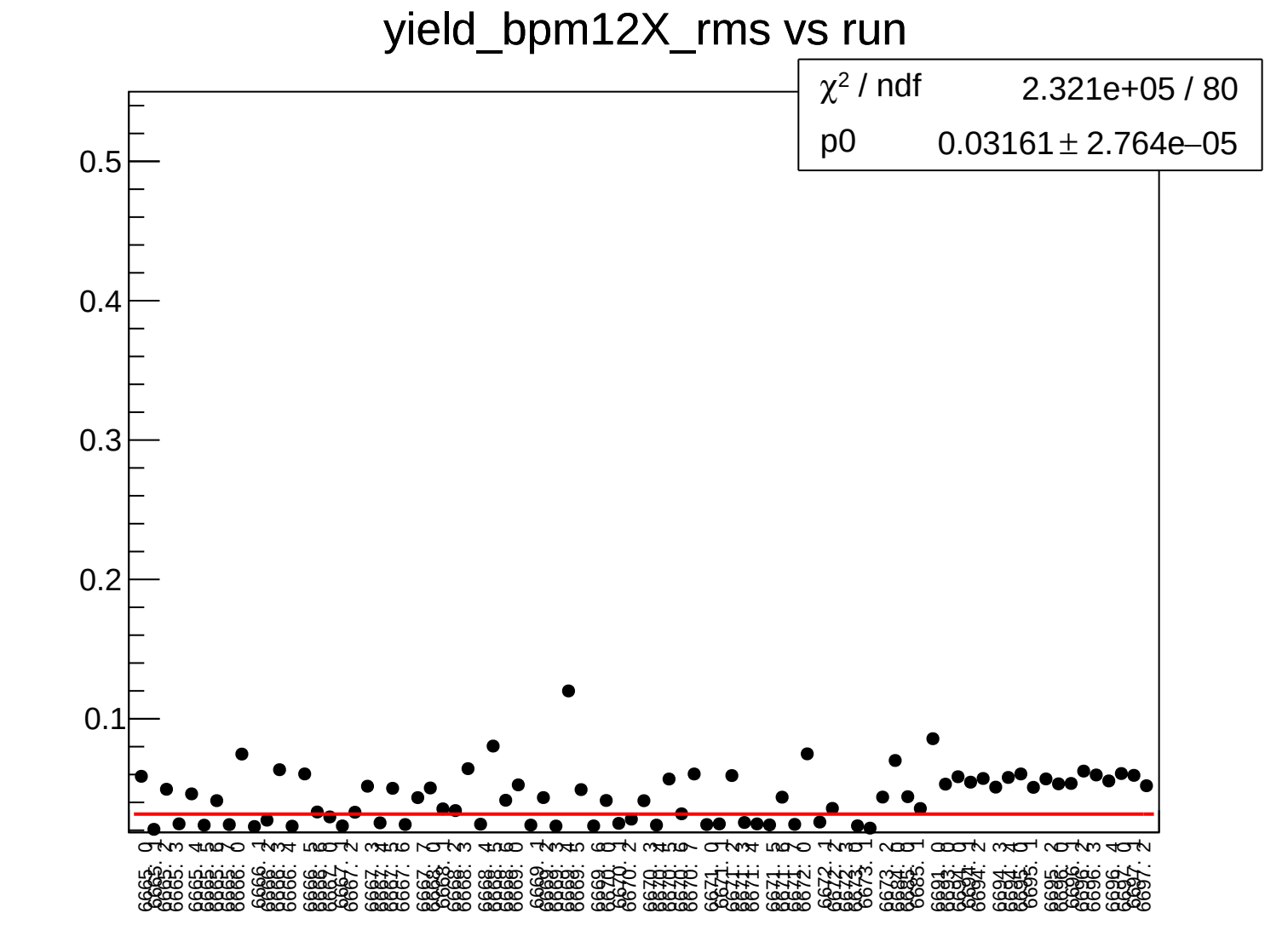

yield_bpm11X_rms vs run
χ² / ndf 2.211e+05 / 80
p0 0.01282 ± 1.116e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

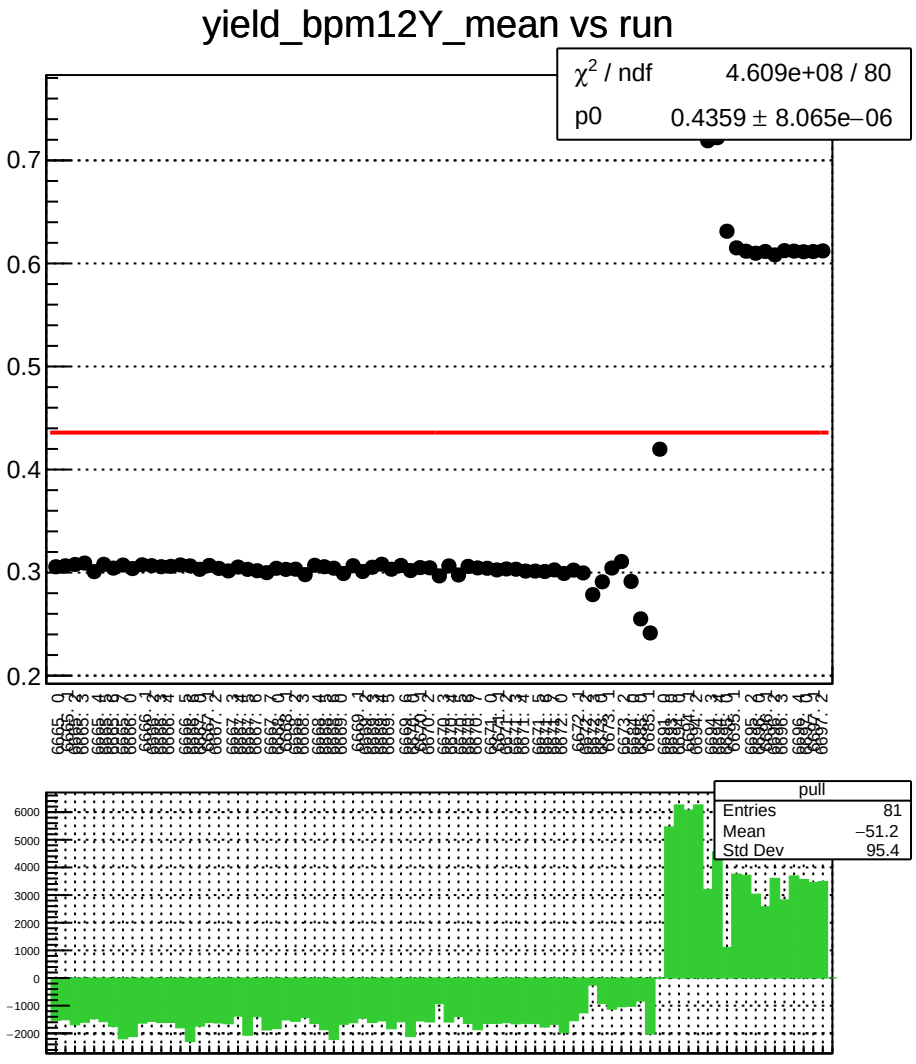

yield_bpm11Y_mean vs run
χ² / ndf 1.15e+09 / 80
p0 −0.5087 ± 1.039e−05
pull
Entries 81
Mean −6.448
Std Dev 47.91
pull1D
Entries 81
Mean 0
Std Dev 0

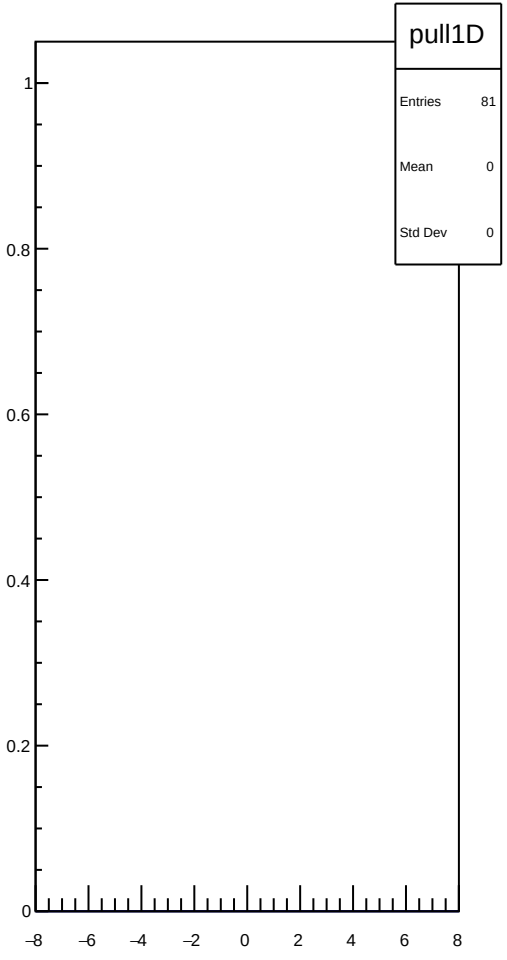

yield_bpm11Y_rms vs run
χ² / ndf 2.775e+05 / 80
p0 0.008253 ± 7.345e−06
0.12
0.1
0.08
0.06
0.04
0.02

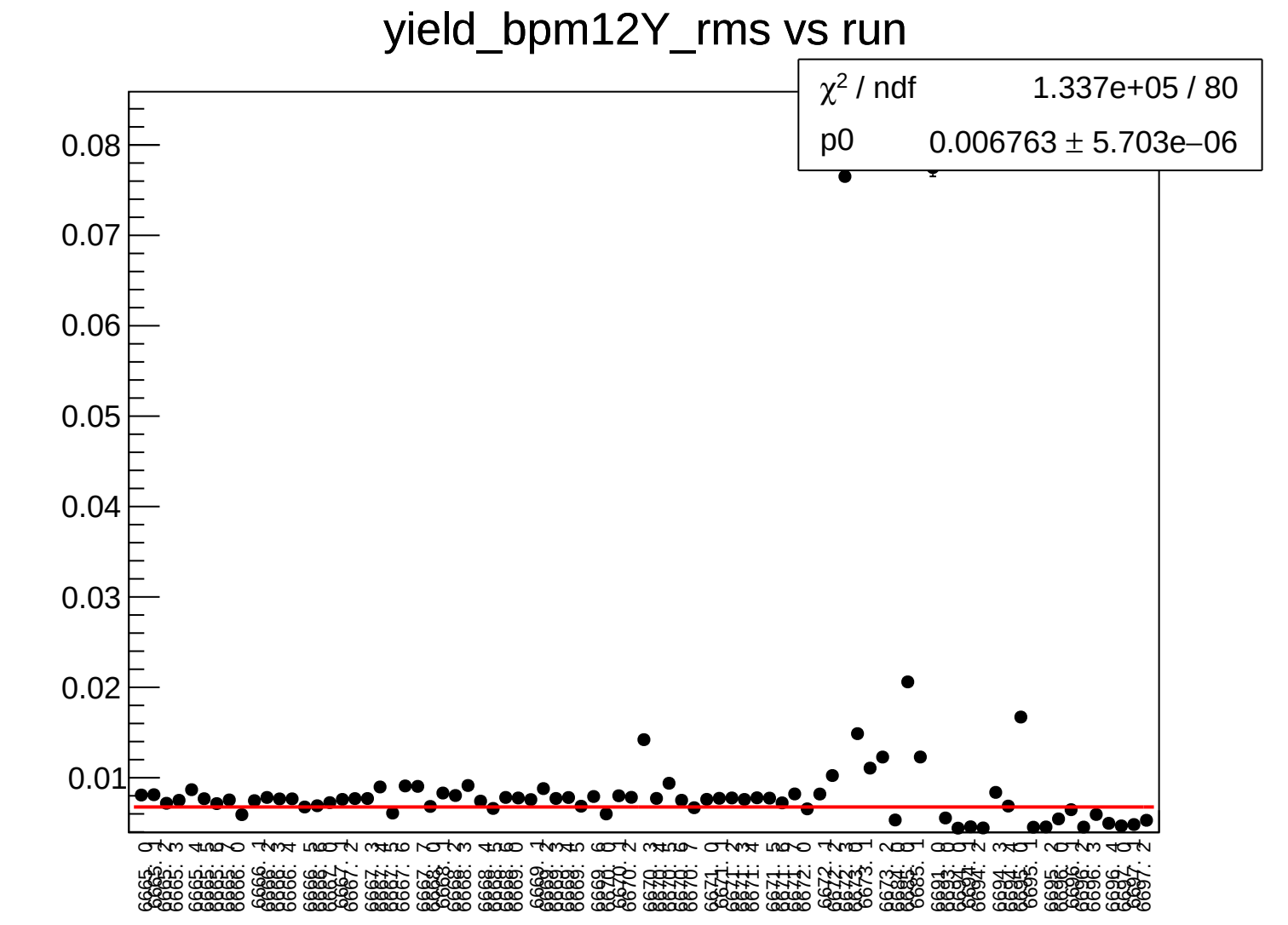

yield_bpm12X_mean vs run
χ² / ndf 1.096e+06 / 80
p0 −1.034 ± 3.909e−05
pull
Entries 81
Mean 94.56
Std Dev 46.87

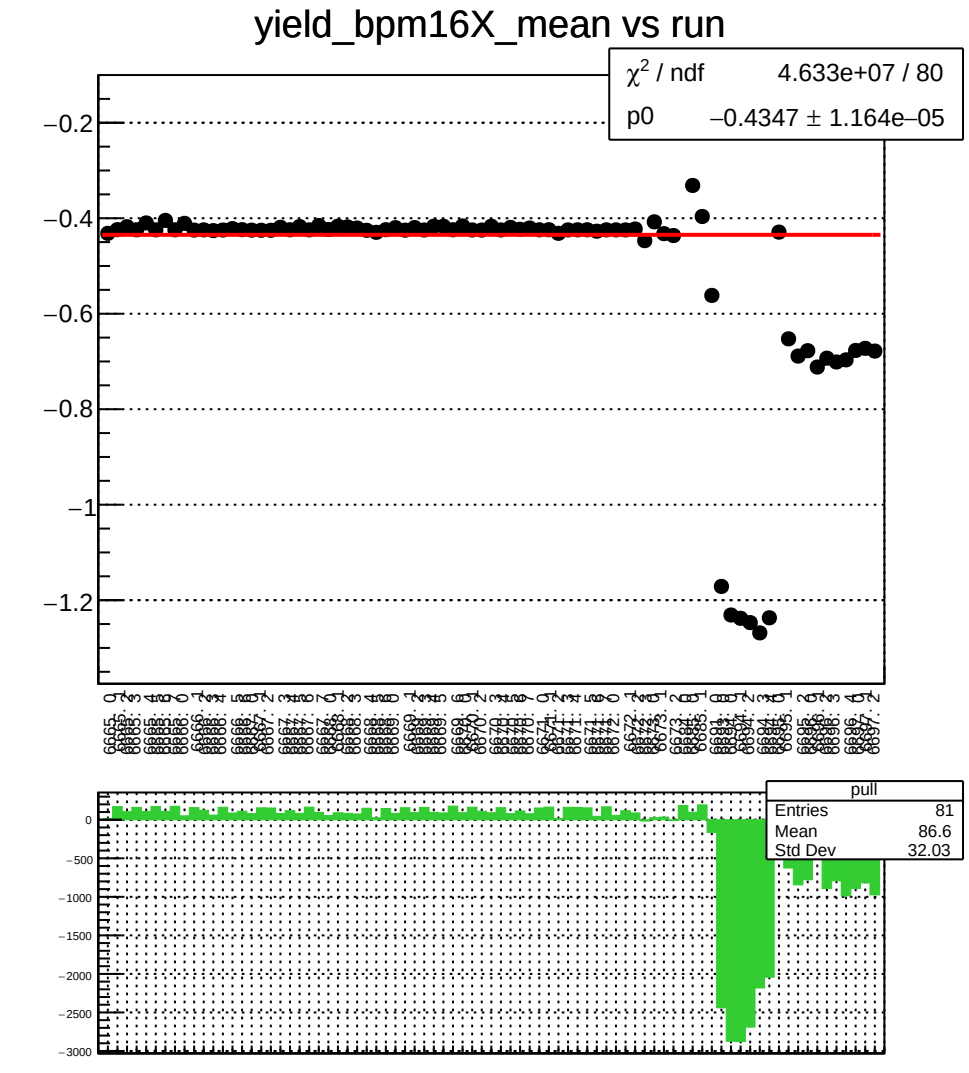

pull1D
Entries 81
Mean 5.615
Std Dev 1.991

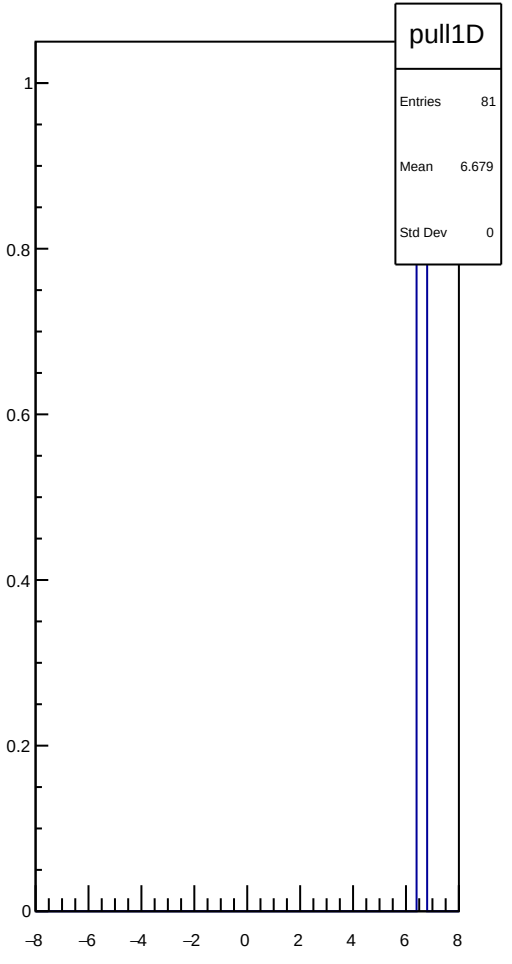

yield_bpm12X_rms vs run
χ² / ndf 2.321e+05 / 80
p0 0.03161 ± 2.764e–05
0.5
0.4
0.3
0.2
0.1

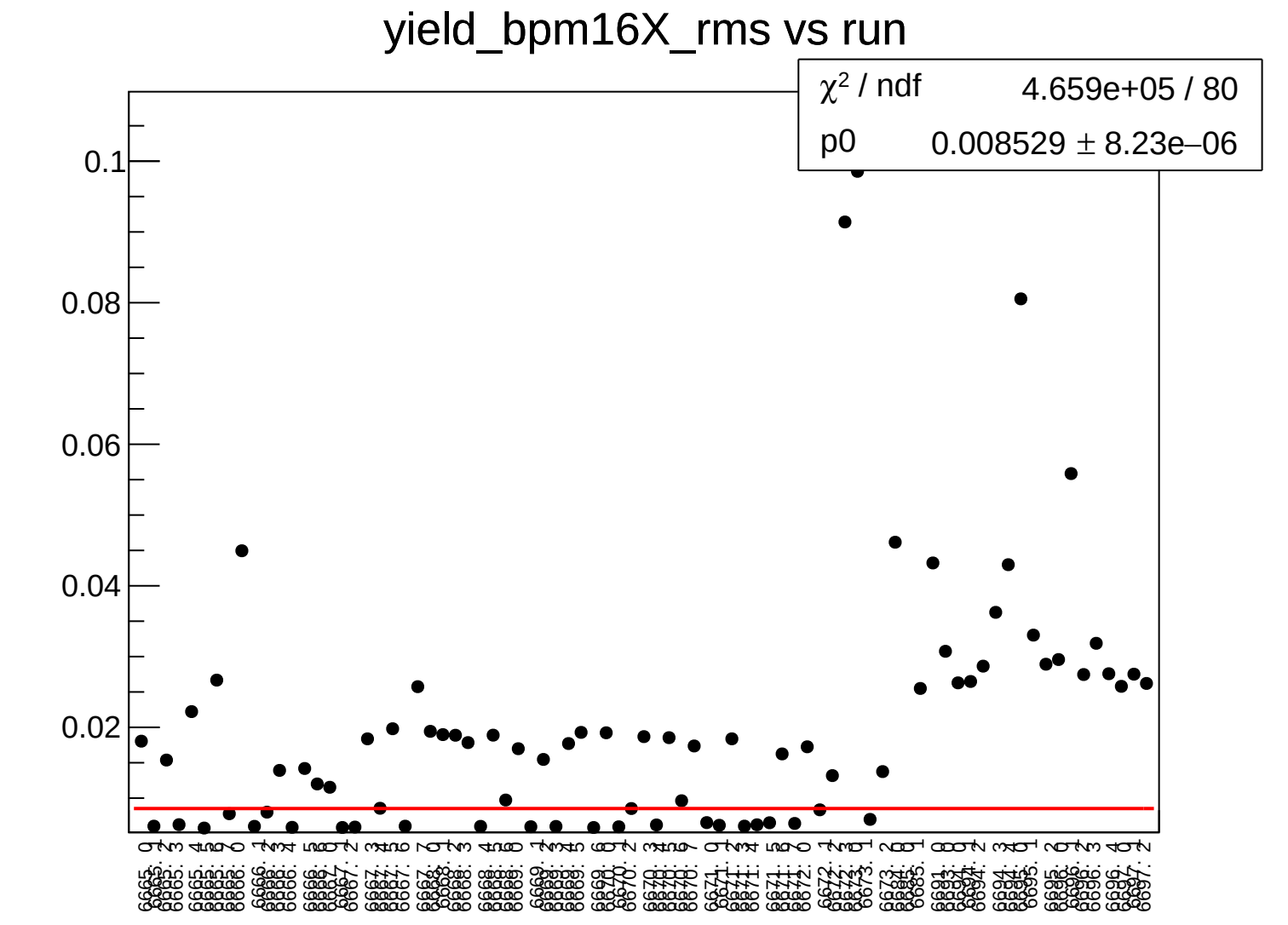

yield_bpm12Y_mean vs run
χ² / ndf 4.609e+08 / 80
p0 0.4359 ± 8.065e−06
pull
Entries 81
Mean −51.2
Std Dev 95.4

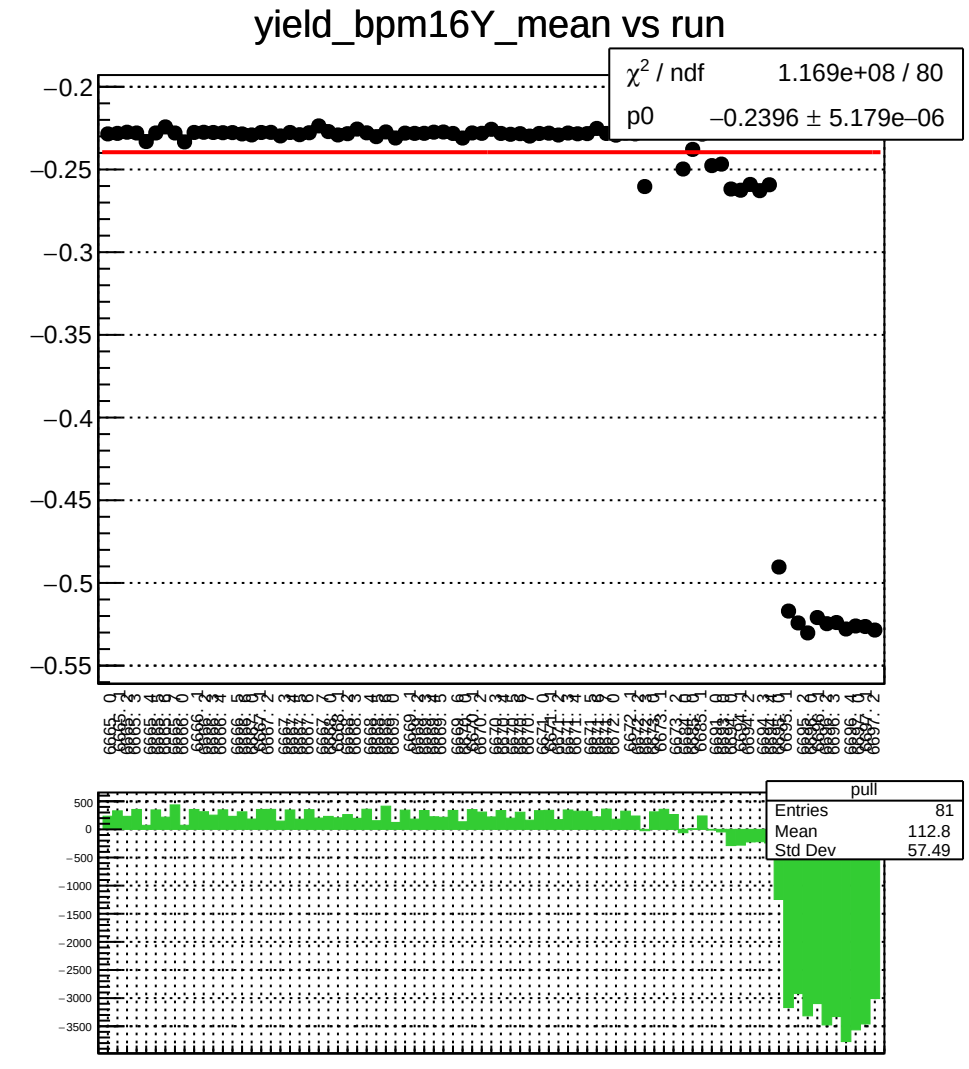

pull1D
Entries 81
Mean 0
Std Dev 0

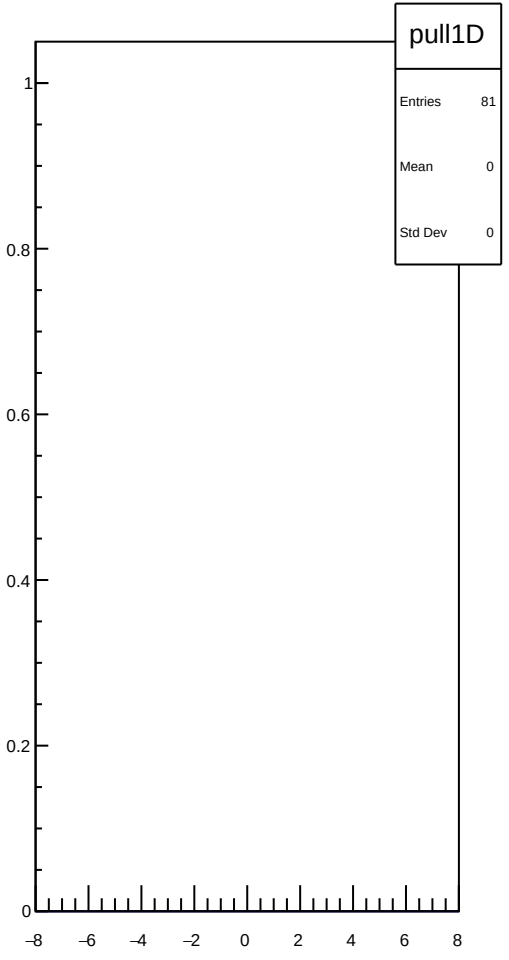

yield_bpm12Y_rms vs run
χ² / ndf 1.337e+05 / 80
p0 0.006763 ± 5.703e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

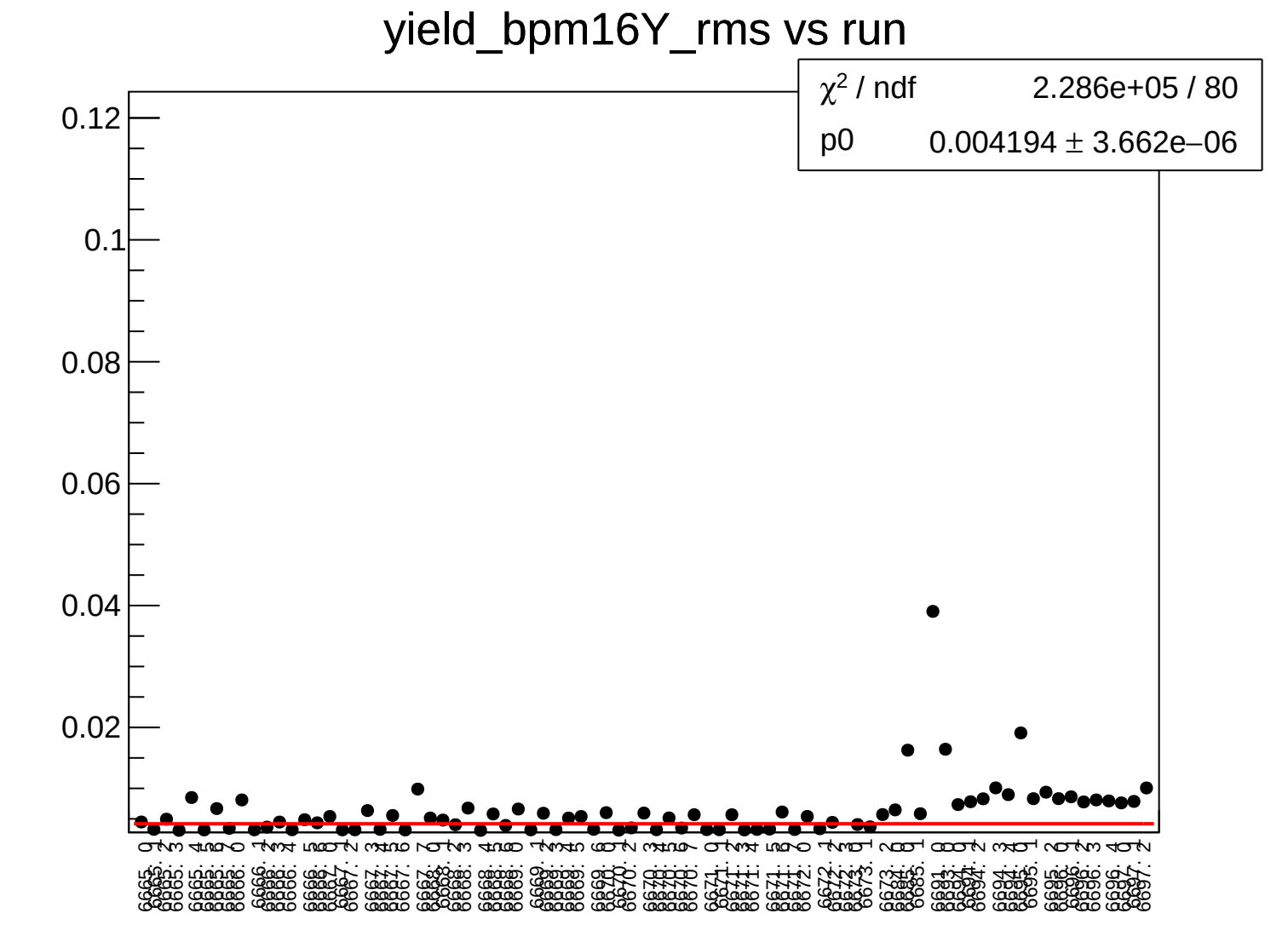

yield_bpm16X_mean vs run
χ² / ndf 4.633e+07 / 80
p0 −0.4347 ± 1.164e−05
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 81
Mean 86.6
Std Dev 32.03
0
−500
−1000
−1500
−2000
−2500
−3000

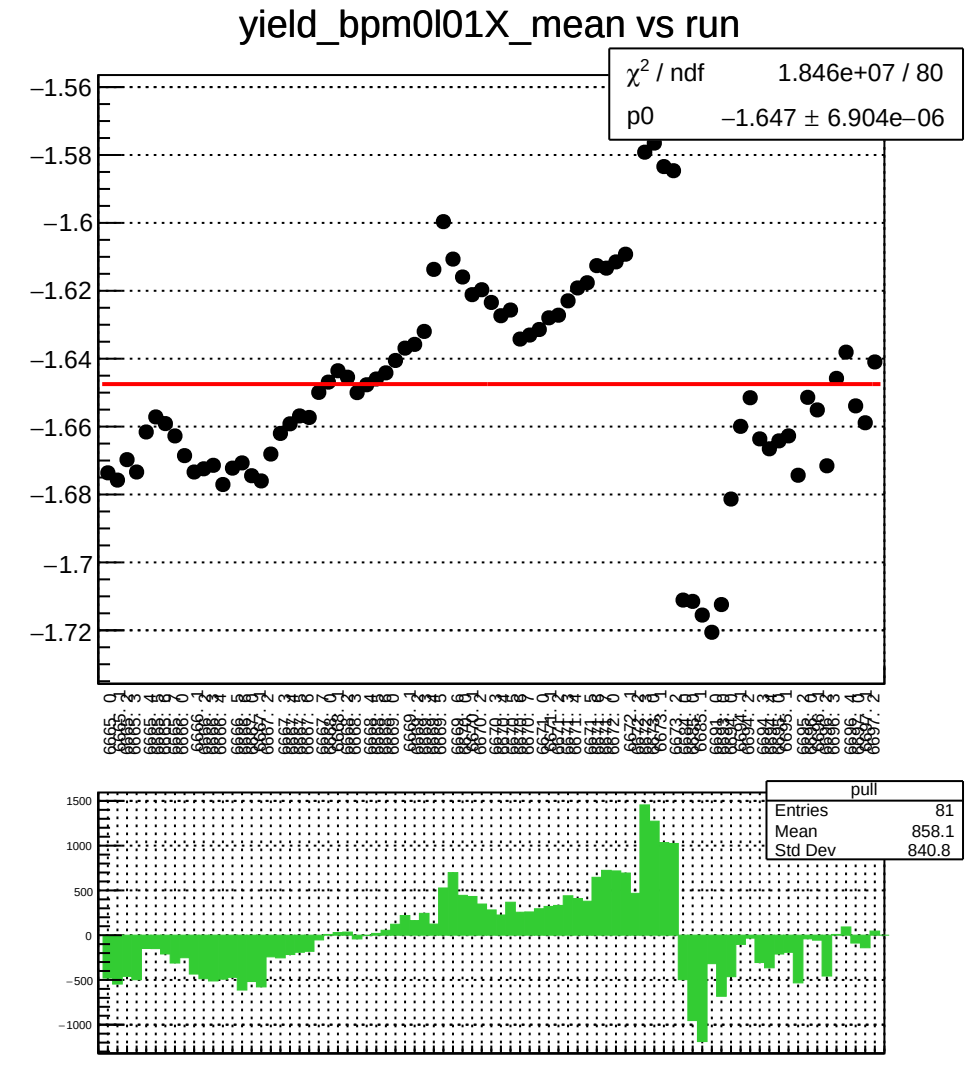

pull1D
Entries 81
Mean 6.679
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

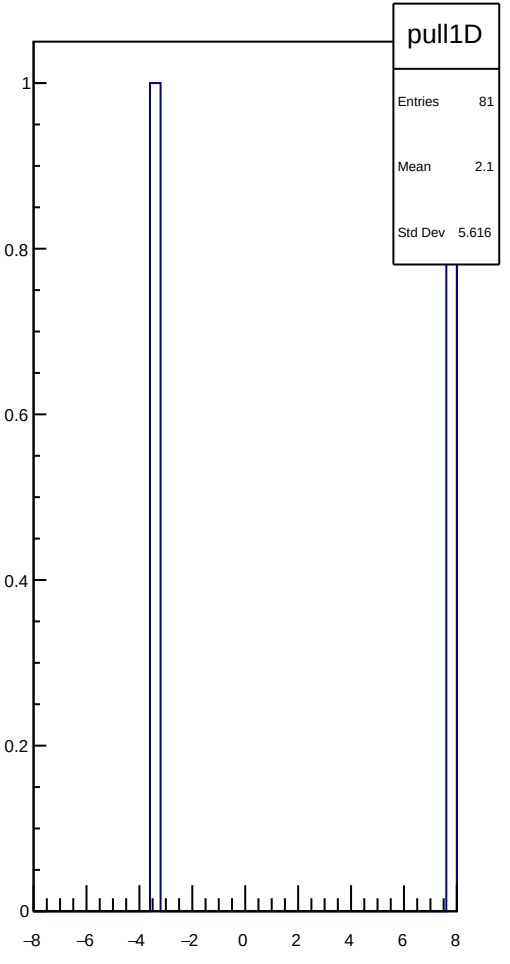

yield_bpm16X_rms vs run
χ² / ndf 4.659e+05 / 80
p0 0.008529 ± 8.23e−06
0.1
0.08
0.06
0.04
0.02

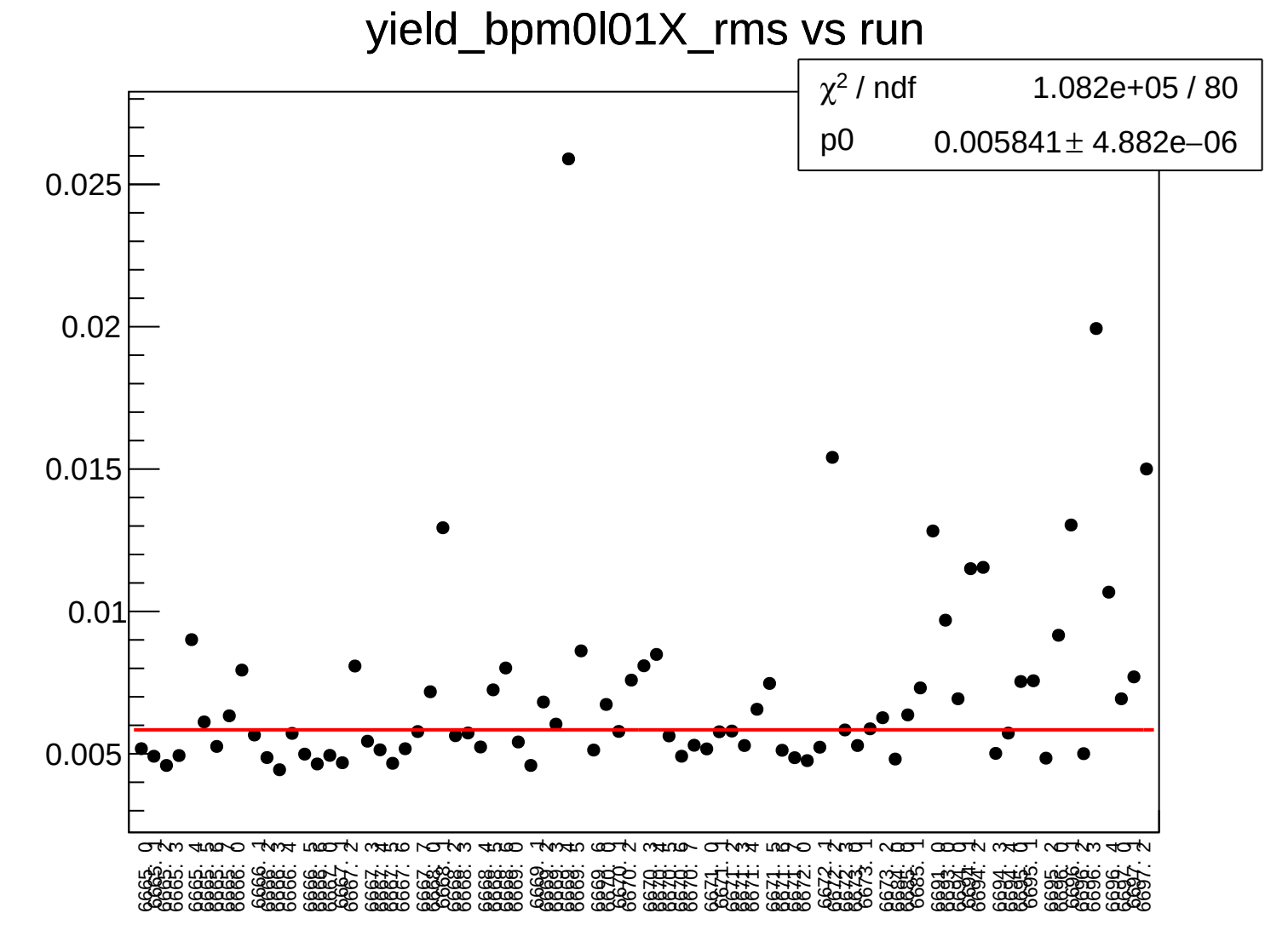

yield_bpm16Y_mean vs run
χ² / ndf 1.169e+08 / 80
p0 −0.2396 ± 5.179e−06
pull
Entries 81
Mean 112.8
Std Dev 57.49

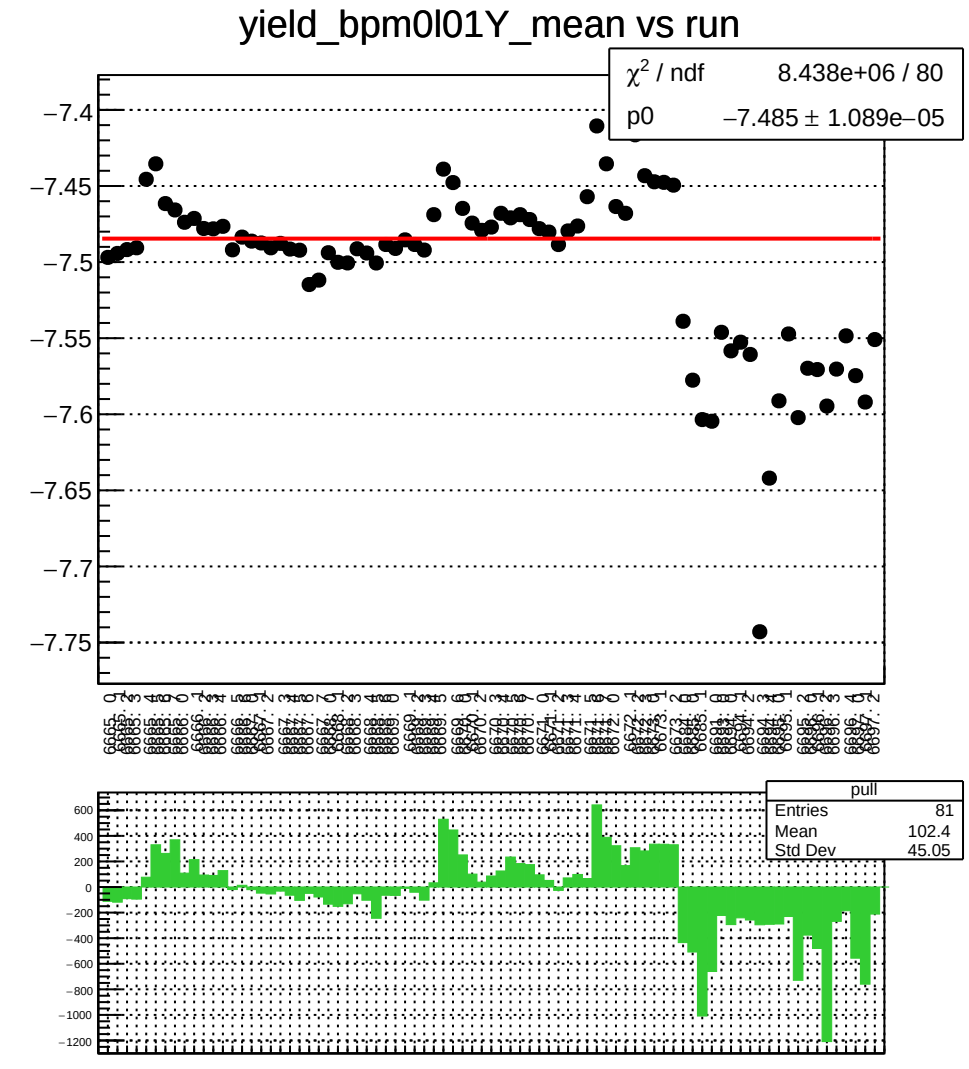

pull1D
Entries 81
Mean 0
Std Dev 0

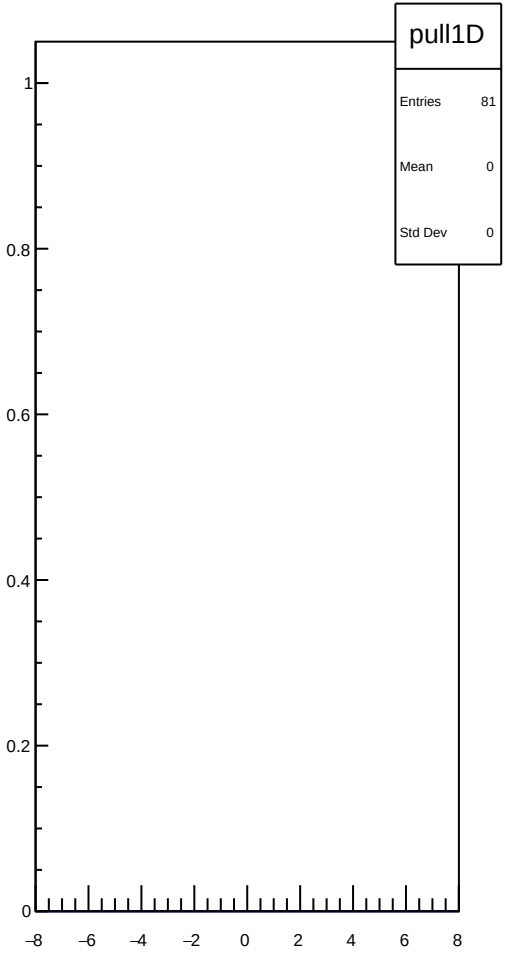

yield_bpm16Y_rms vs run
χ² / ndf 2.286e+05 / 80
p0 0.004194 ± 3.662e−06
0.12
0.1
0.08
0.06
0.04
0.02

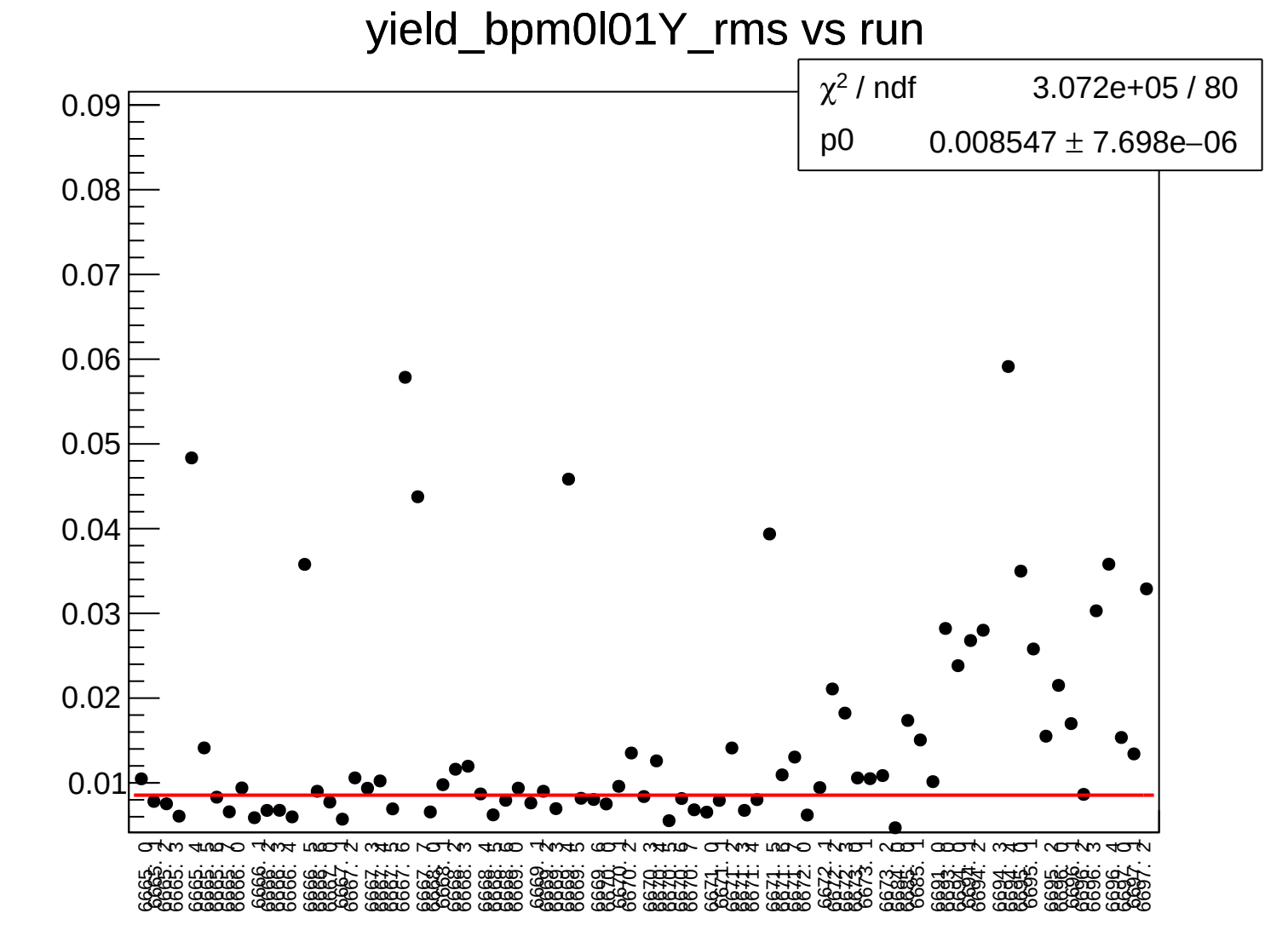

yield_bpm0l01X_mean vs run
χ² / ndf 1.846e+07 / 80
p0 −1.647 ± 6.904e−06
−1.56
−1.58
−1.6
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
pull
Entries 81
Mean 858.1
Std Dev 840.8
1500
1000
500
0
−500
−1000

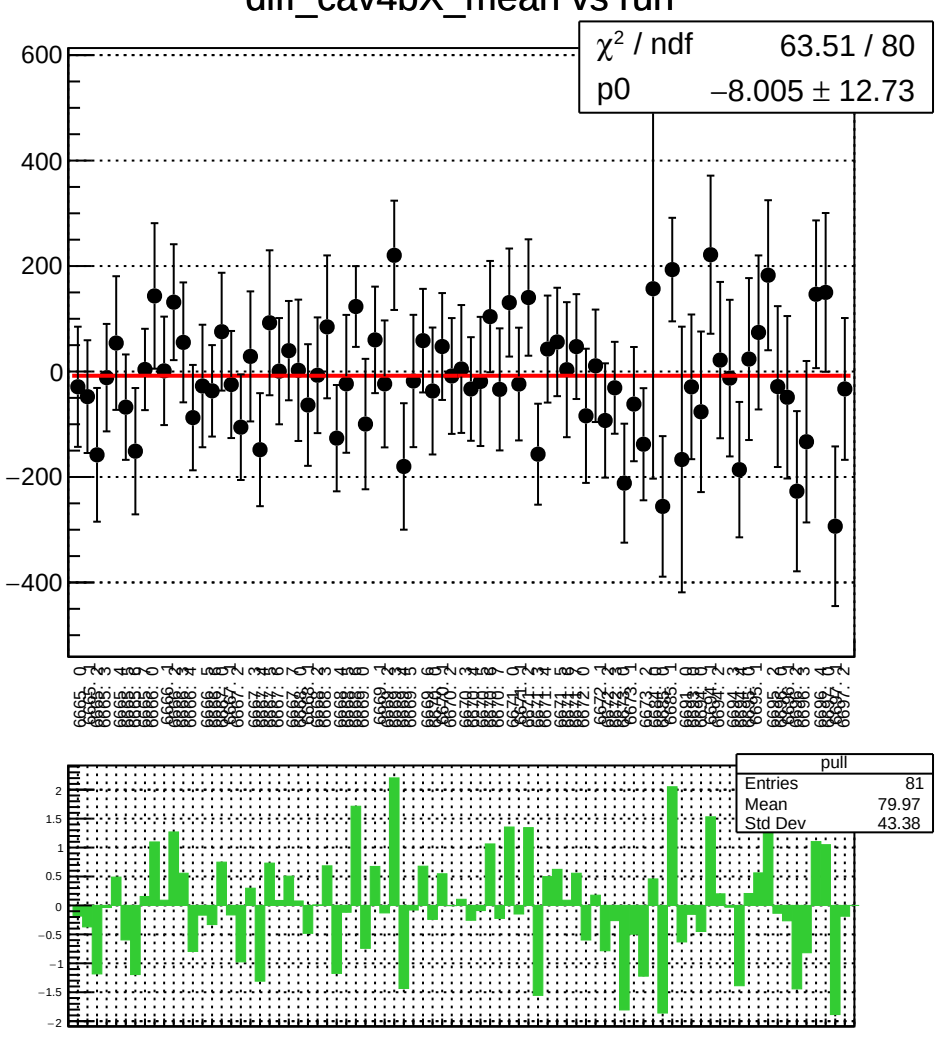

pull1D
Entries 81
Mean 2.1
Std Dev 5.616
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

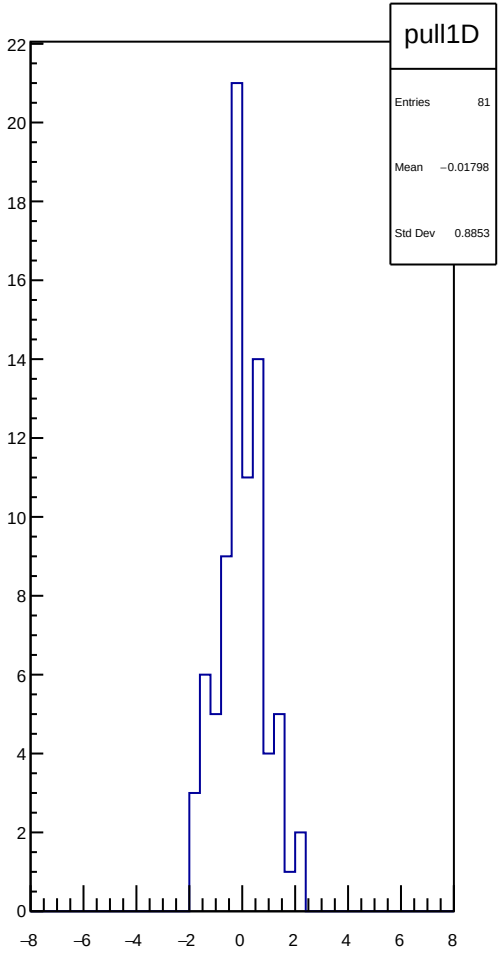

yield_bpm0l01X_rms vs run
χ² / ndf 1.082e+05 / 80
p0 0.005841 ± 4.882e−06
0.025
0.02
0.015
0.01
0.005

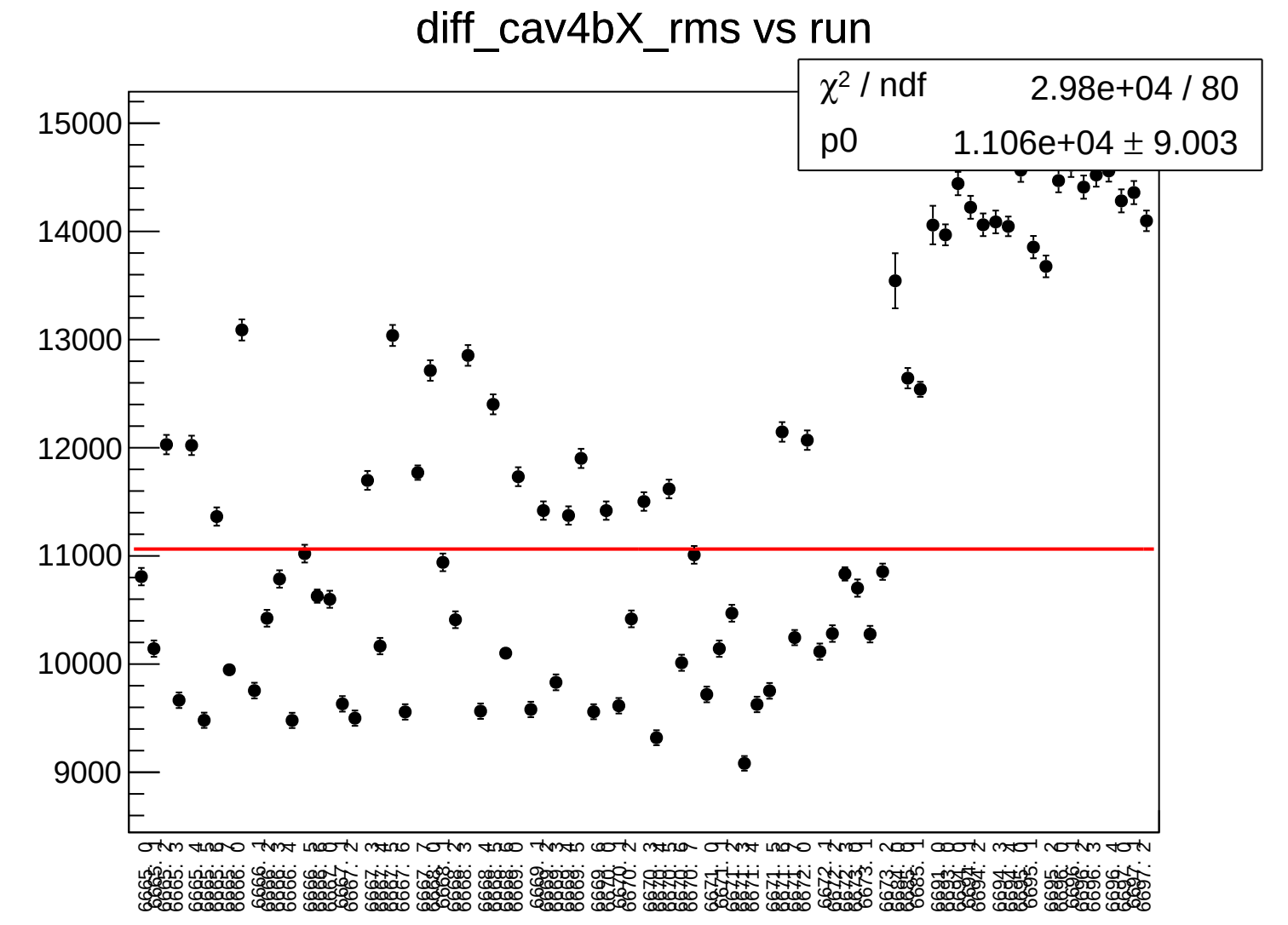

yield_bpm0l01Y_mean vs run
χ² / ndf 8.438e+06 / 80
p0 −7.485 ± 1.089e−05
−7.4
−7.45
−7.5
−7.55
−7.6
−7.65
−7.7
−7.75
pull
Entries 81
Mean 102.4
Std Dev 45.05
600
400
200
0
−200
−400
−600
−800
−1000
−1200

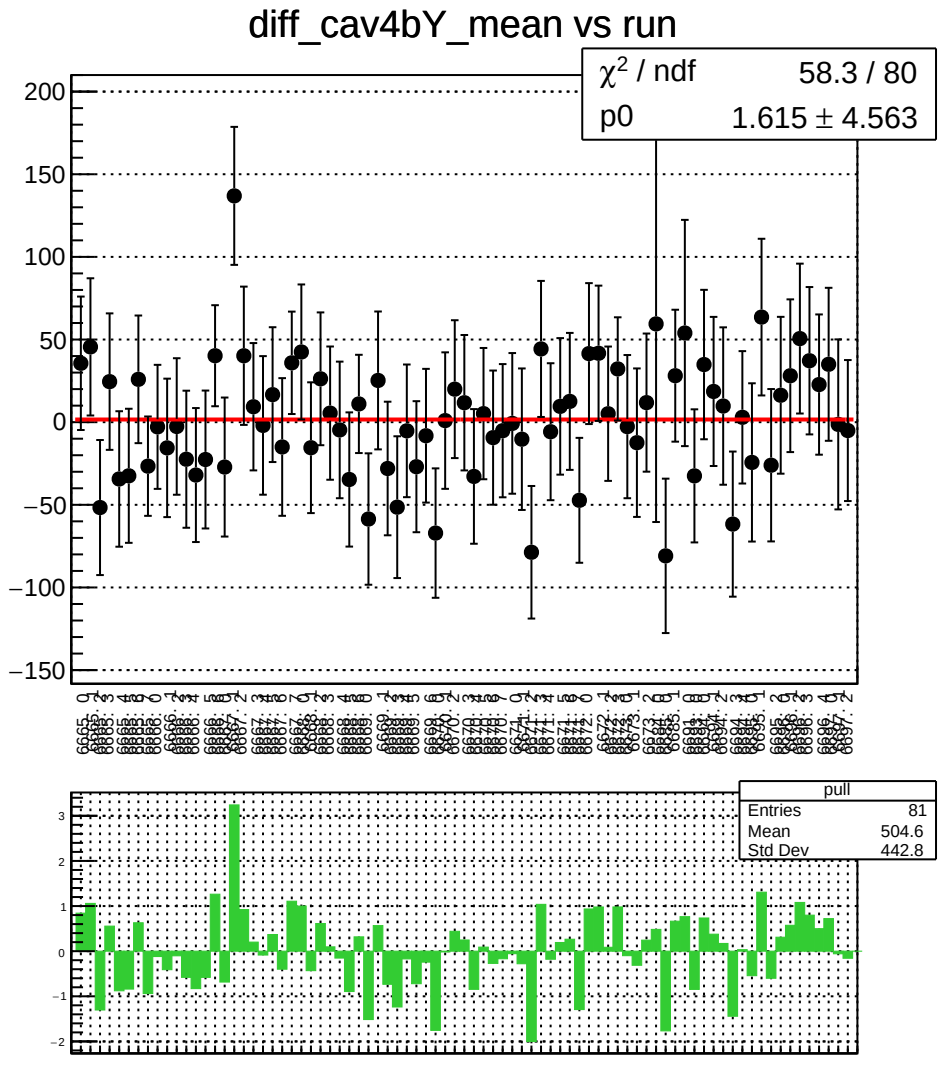

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

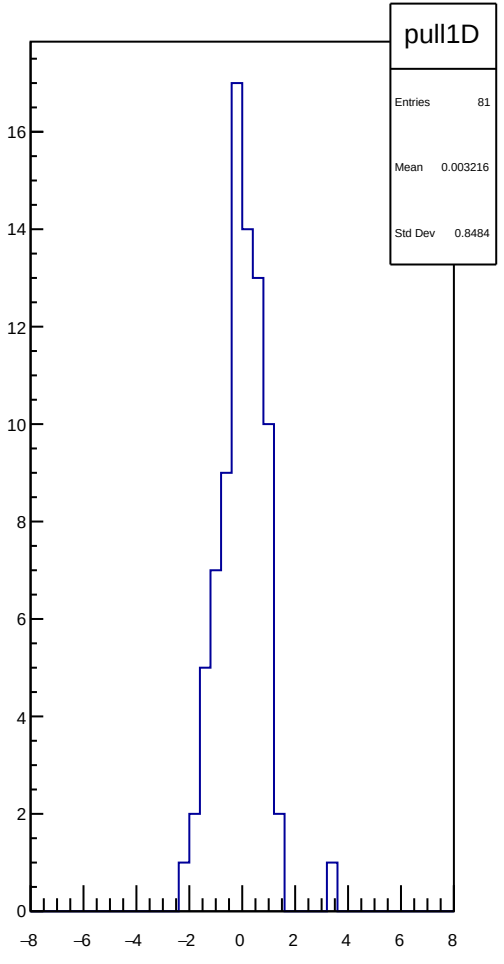

yield_bpm0l01Y_rms vs run
χ² / ndf 3.072e+05 / 80
p0 0.008547 ± 7.698e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

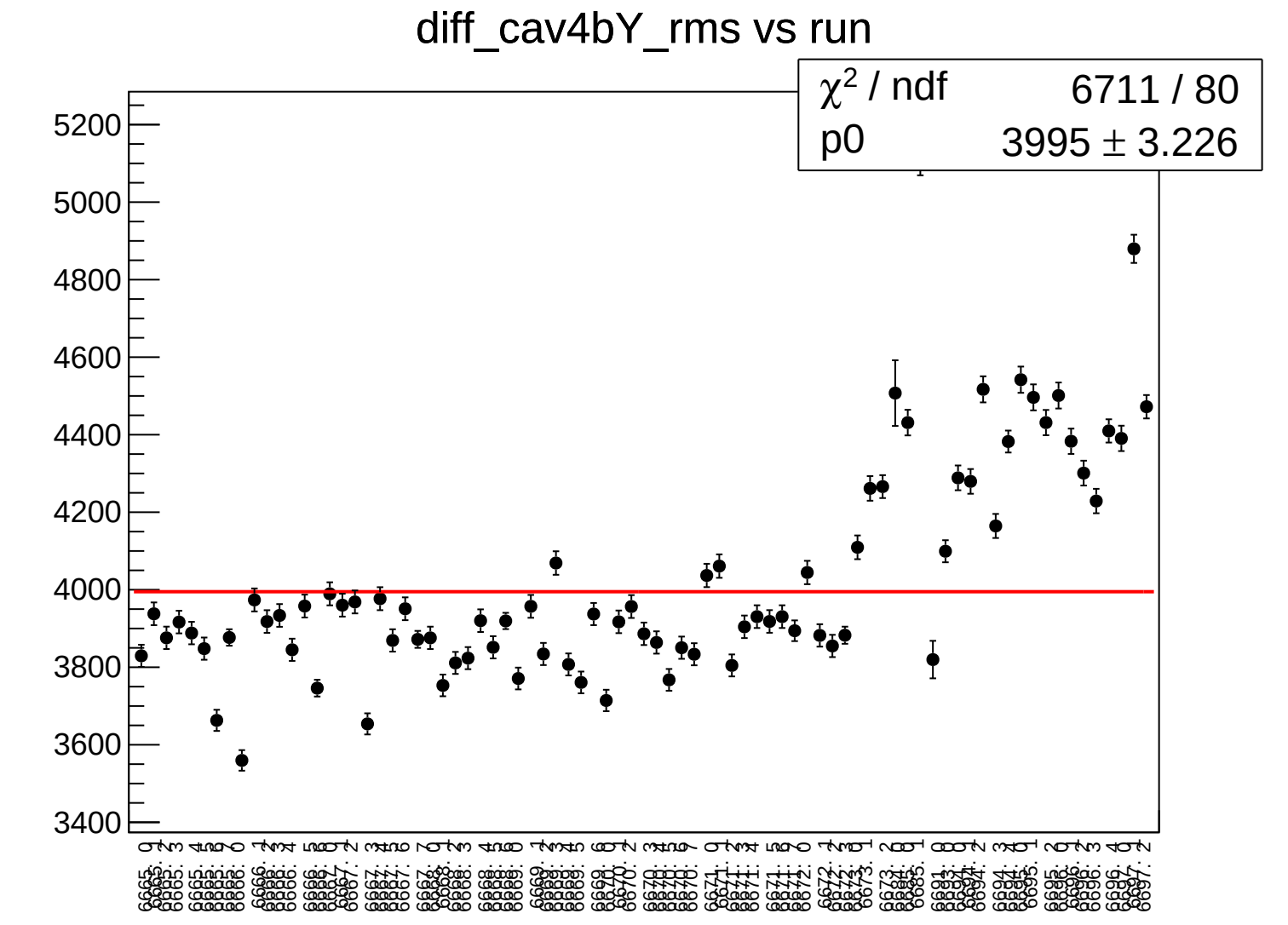

diff_cav4bX_mean vs run
χ² / ndf 63.51 / 80
p0 −8.005 ± 12.73
pull
Entries 81
Mean 79.97
Std Dev 43.38

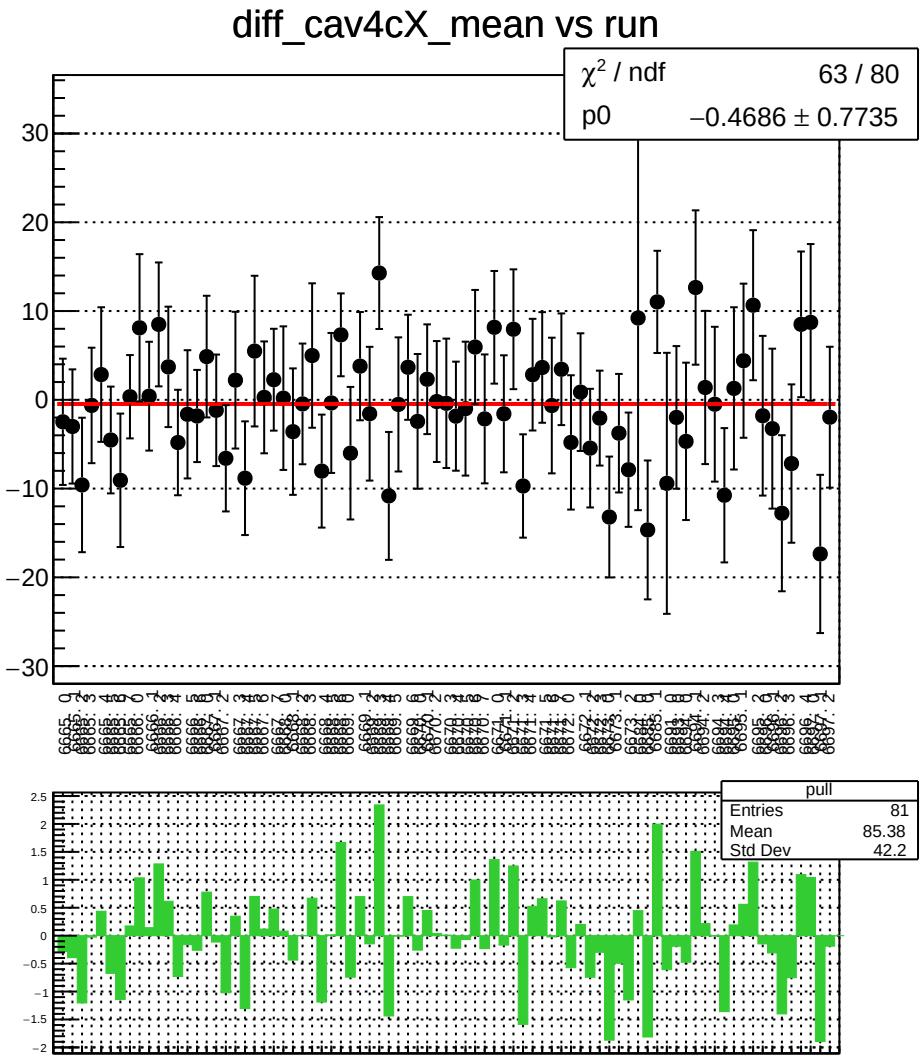

pull1D
Entries 81
Mean −0.01798
Std Dev 0.8853

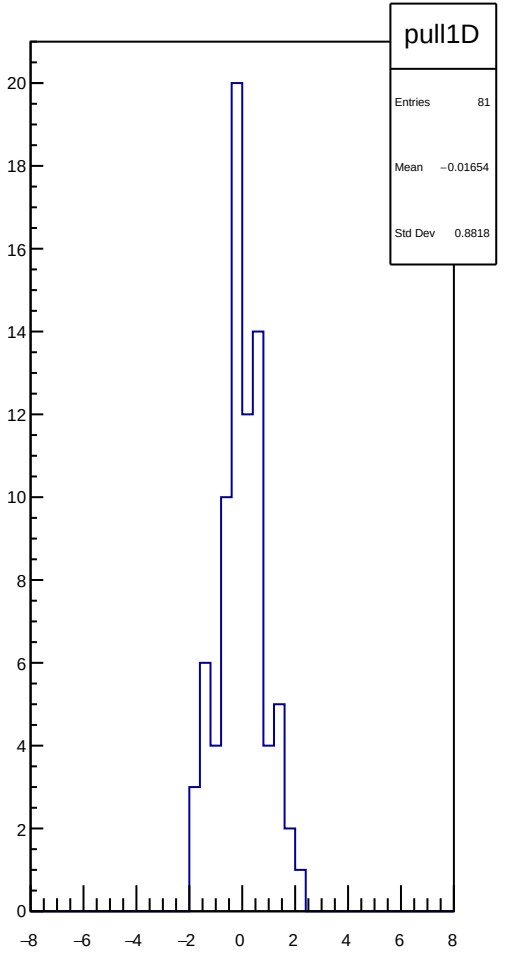

diff_cav4bX_rms vs run
χ² / ndf 2.98e+04 / 80
p0 1.106e+04 ± 9.003
15000
14000
13000
12000
11000
10000
9000

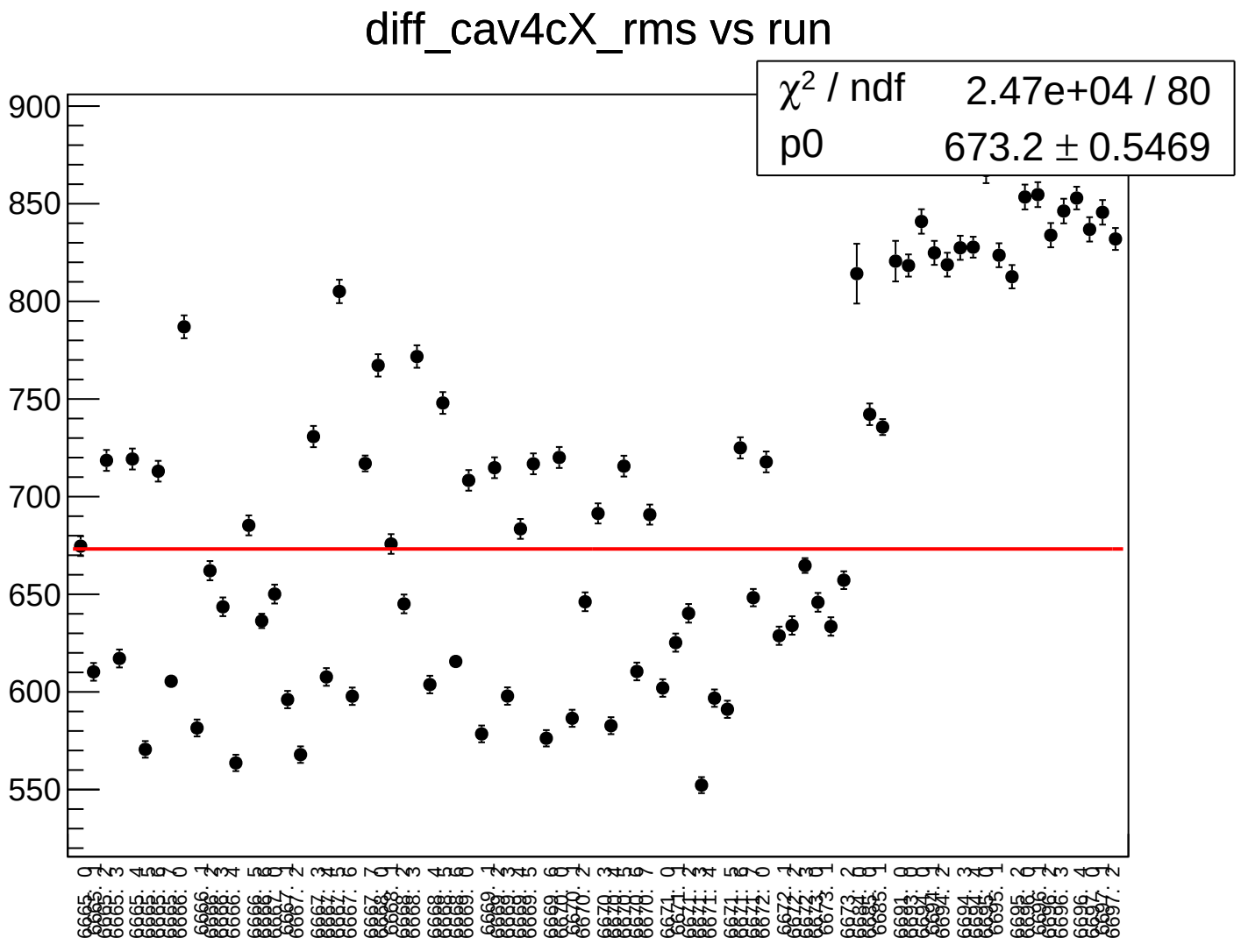

diff_cav4bY_mean vs run
χ^2 / ndf 58.3 / 80
p0 1.615 ± 4.563
pull
Entries 81
Mean 504.6
Std Dev 442.8

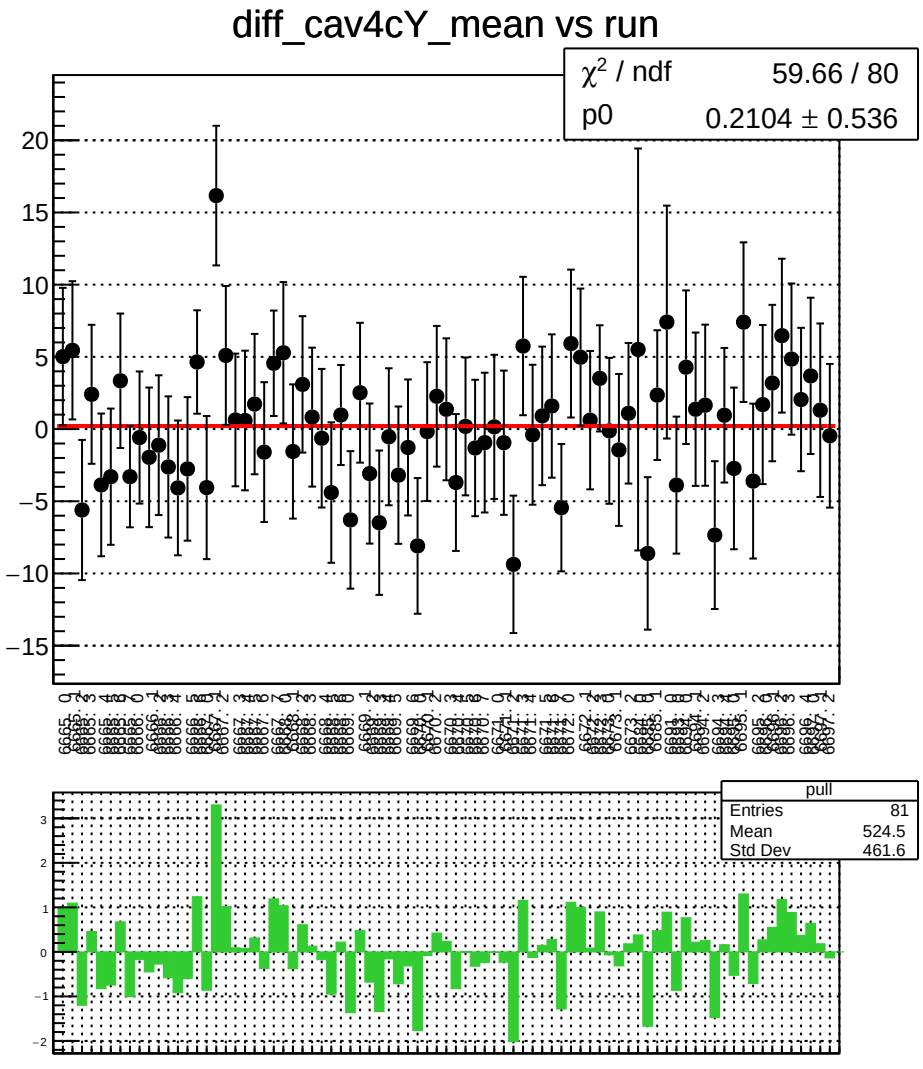

pull1D
Entries 81
Mean 0.003216
Std Dev 0.8484

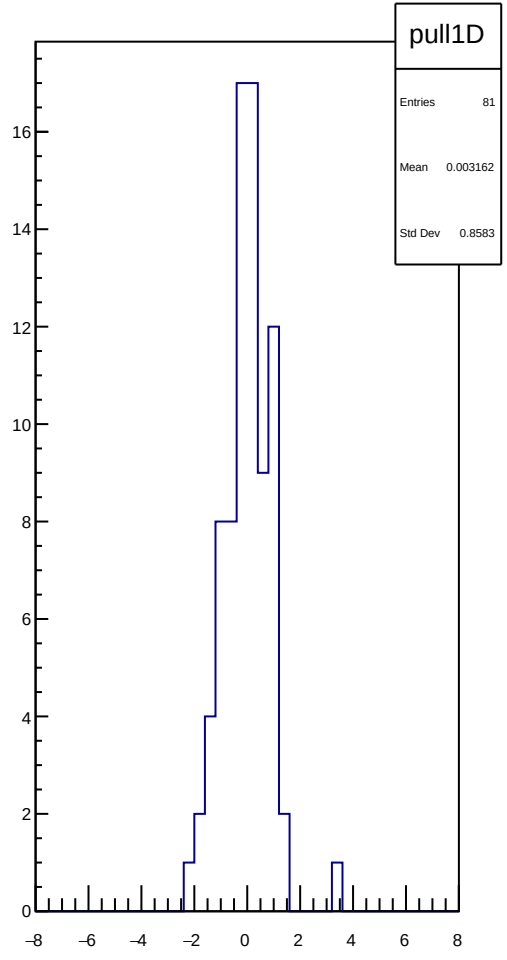

diff_cav4bY_rms vs run
χ^2 / ndf 6711 / 80
p0 3995 ± 3.226
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

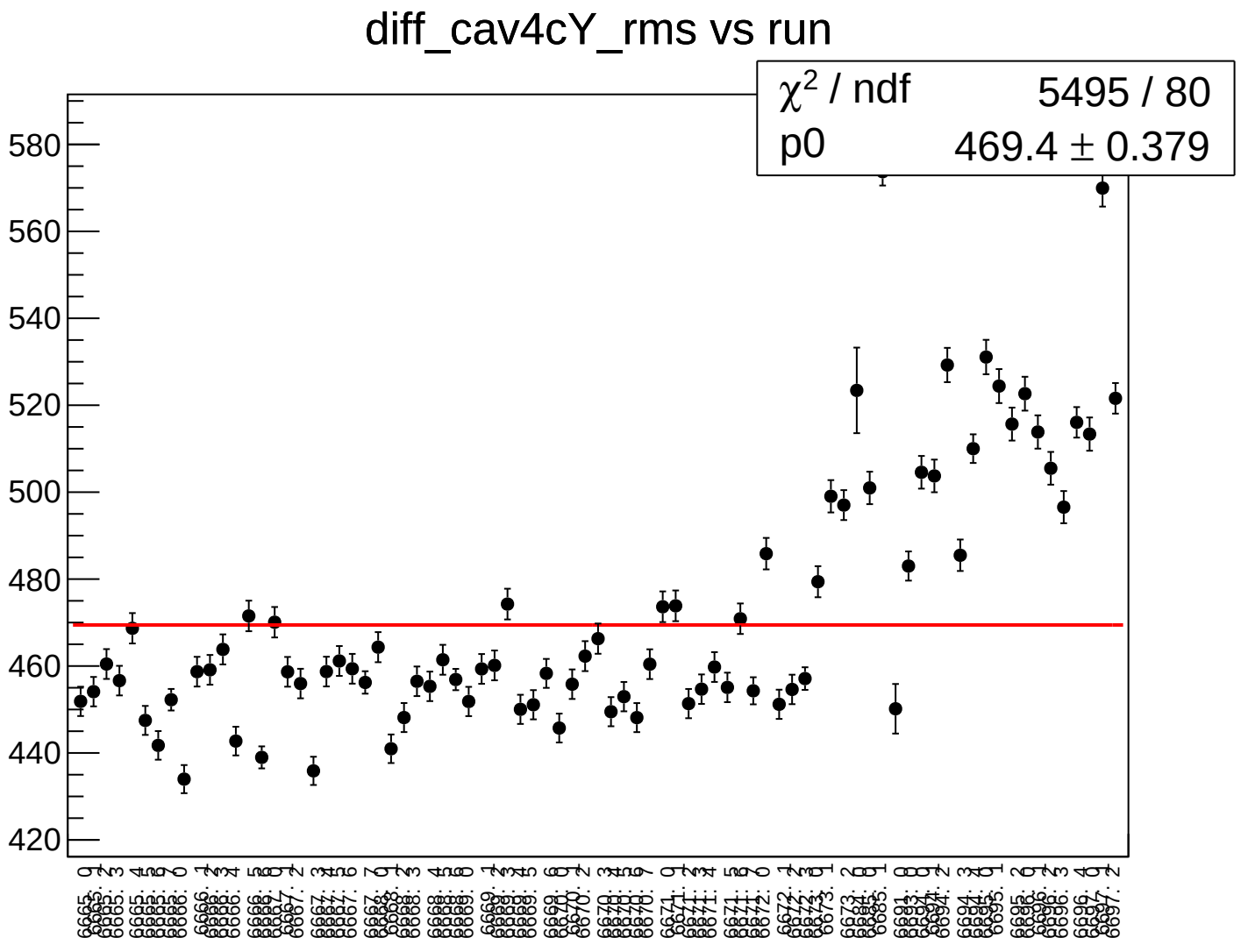

diff_cav4cX_mean vs run
χ² / ndf 63 / 80
p0 −0.4686 ± 0.7735
pull
Entries 81
Mean 85.38
Std Dev 42.2

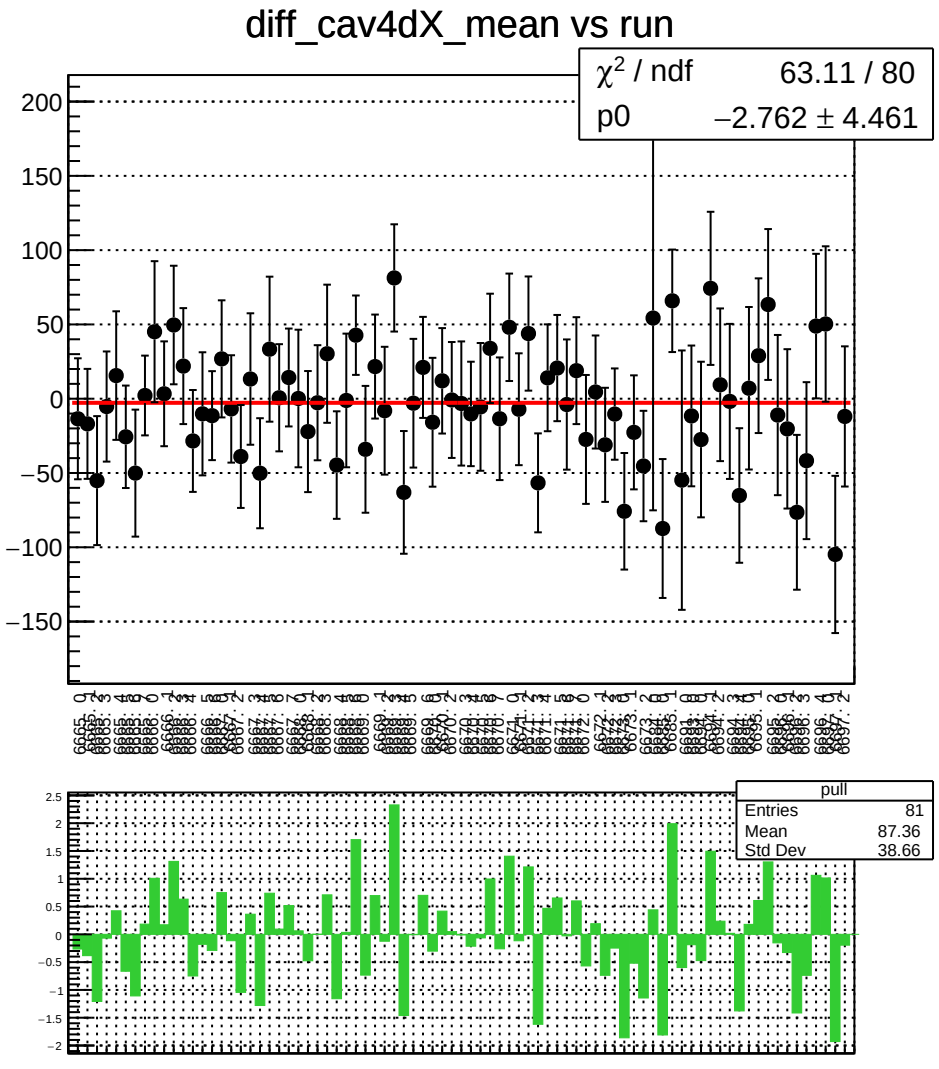

pull1D
Entries 81
Mean −0.01654
Std Dev 0.8818

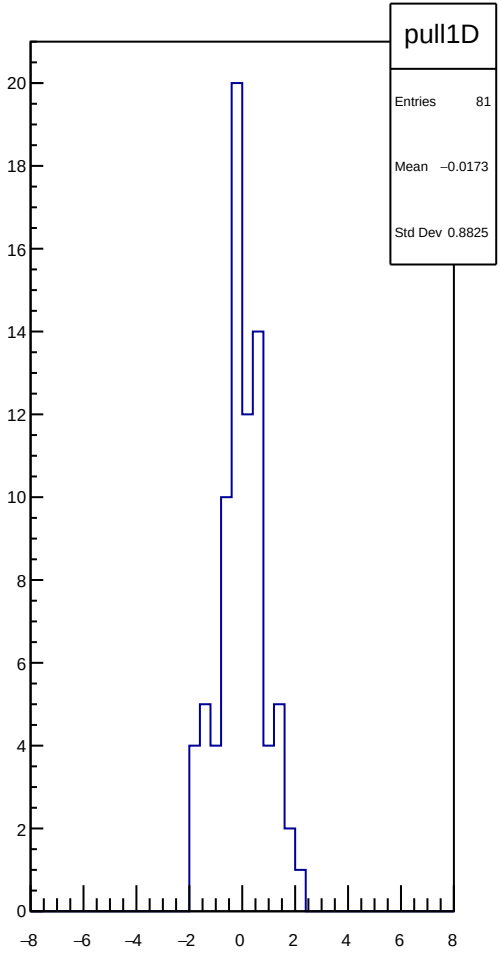

diff_cav4cX_rms vs run
χ² / ndf 2.47e+04 / 80
p0 673.2 ± 0.5469
900
850
800
750
700
650
600
550

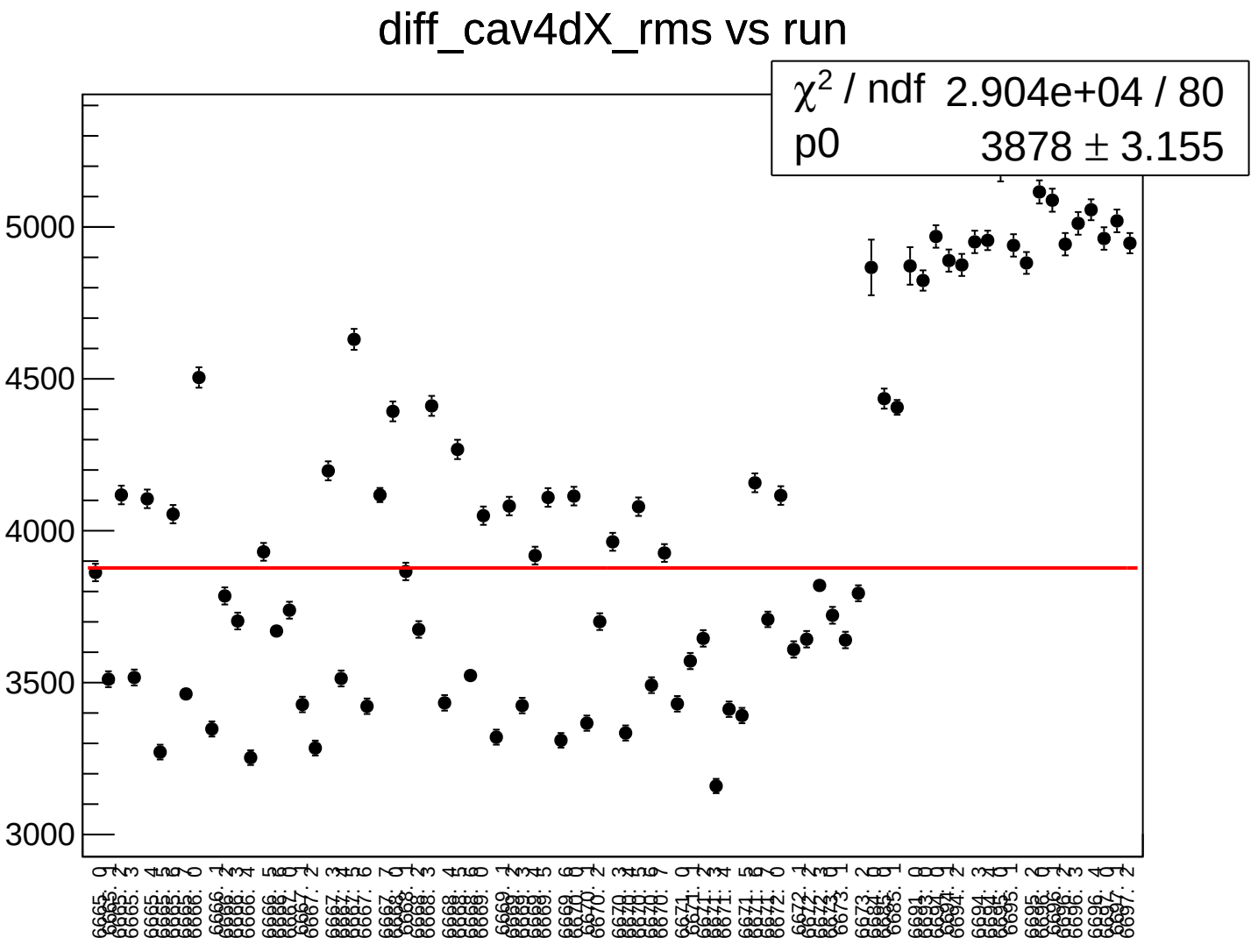

diff_cav4cY_mean vs run
χ² / ndf 59.66 / 80
p0 0.2104 ± 0.536
pull
Entries 81
Mean 524.5
Std Dev 461.6

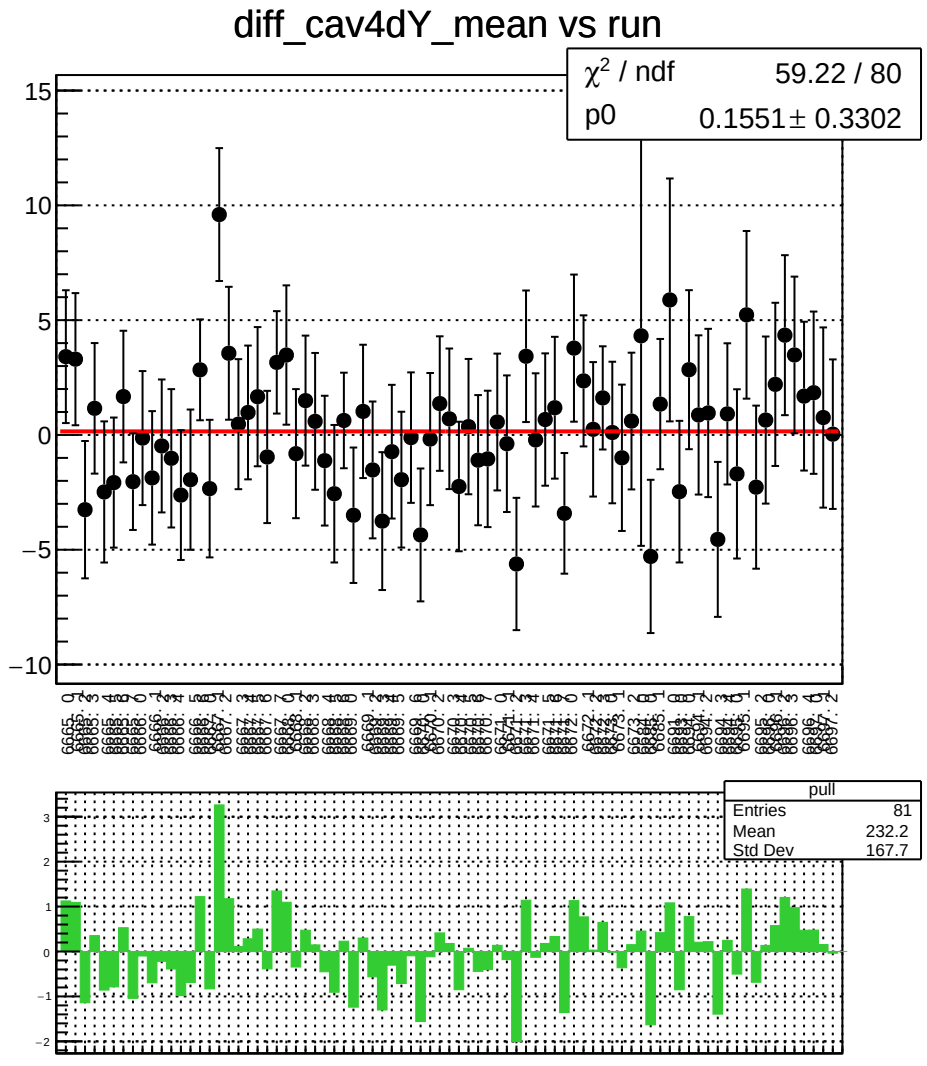

pull1D
Entries 81
Mean 0.003162
Std Dev 0.8583

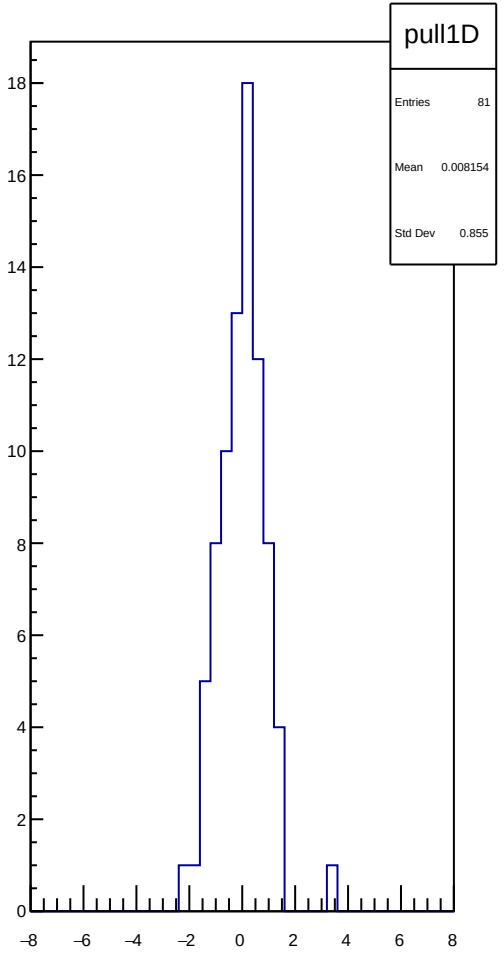

diff_cav4cY_rms vs run
χ² / ndf 5495 / 80
p0 469.4 ± 0.379
580
560
540
520
500
480
460
440
420

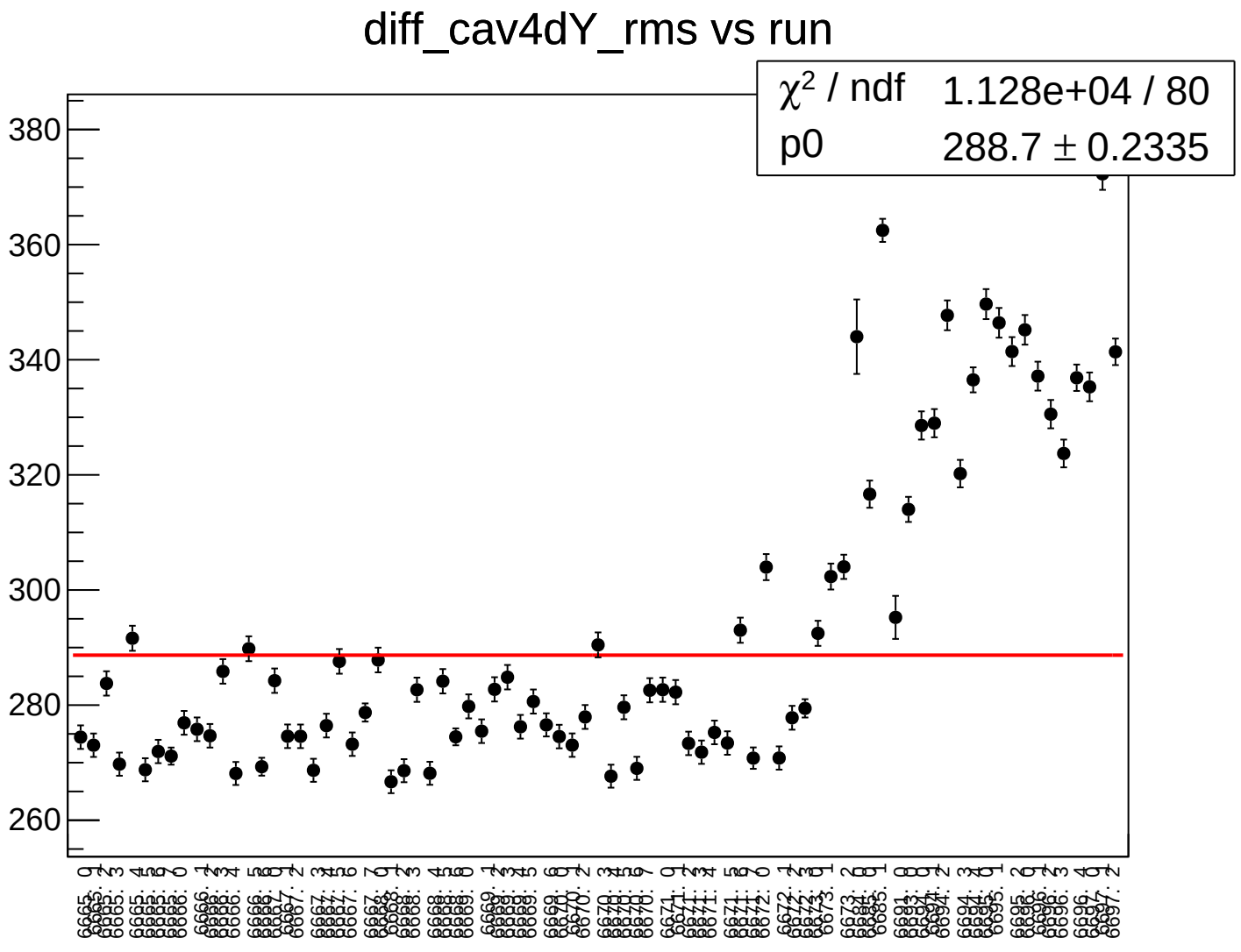

diff_cav4dX_mean vs run
χ² / ndf 63.11 / 80
p0 −2.762 ± 4.461
pull
Entries 81
Mean 87.36
Std Dev 38.66

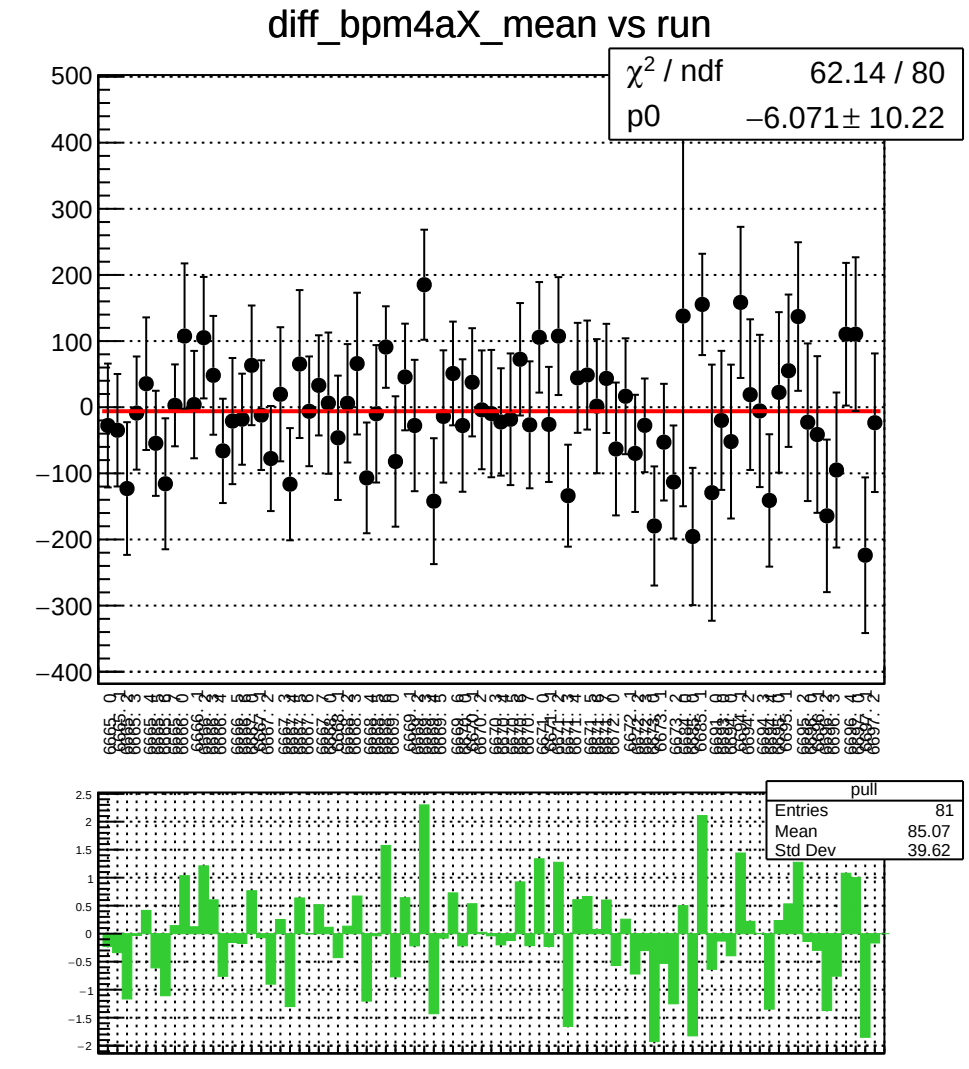

pull1D
Entries 81
Mean −0.0173
Std Dev 0.8825

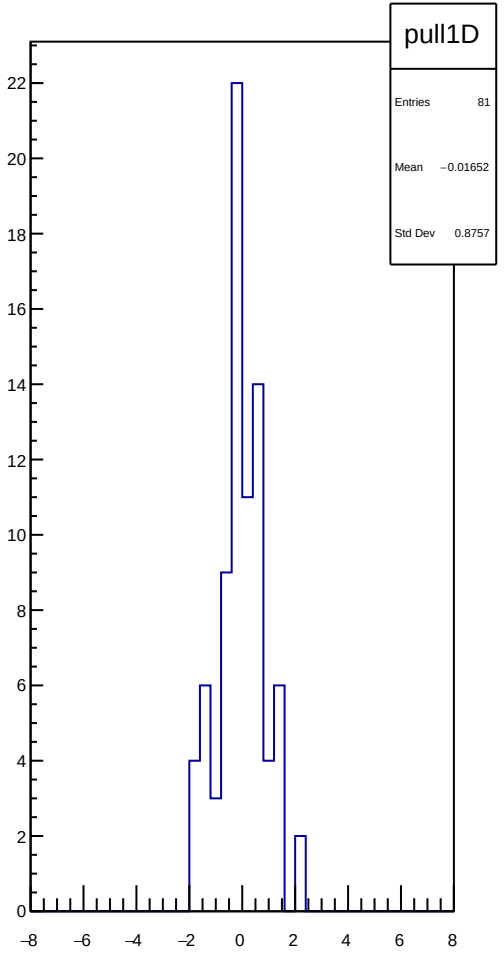

diff_cav4dX_rms vs run
χ² / ndf 2.904e+04 / 80
p0 3878 ± 3.155
5000
4500
4000
3500
3000

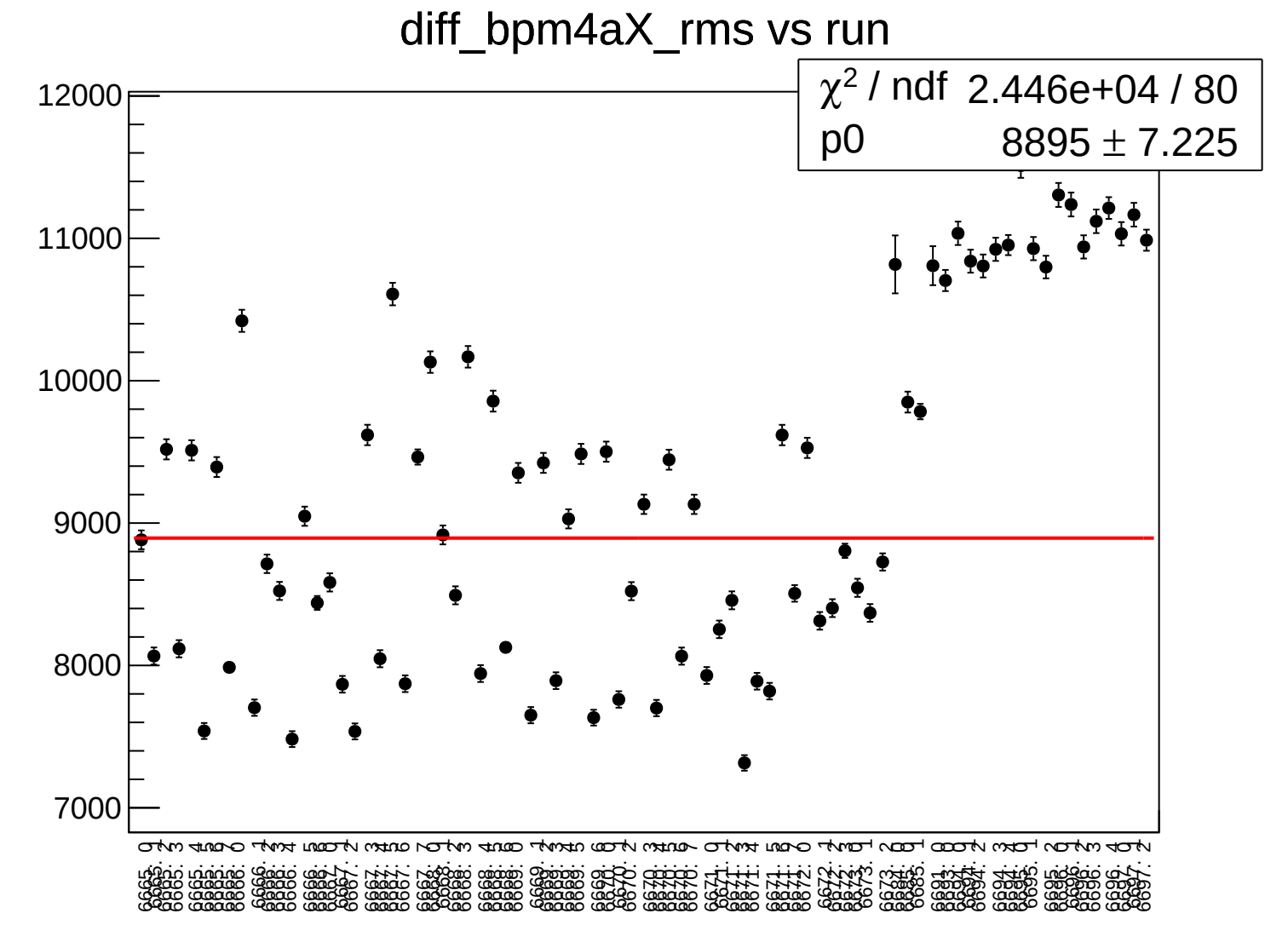

diff_cav4dY_mean vs run
χ² / ndf 59.22 / 80
p0 0.1551 ± 0.3302
pull
Entries 81
Mean 232.2
Std Dev 167.7

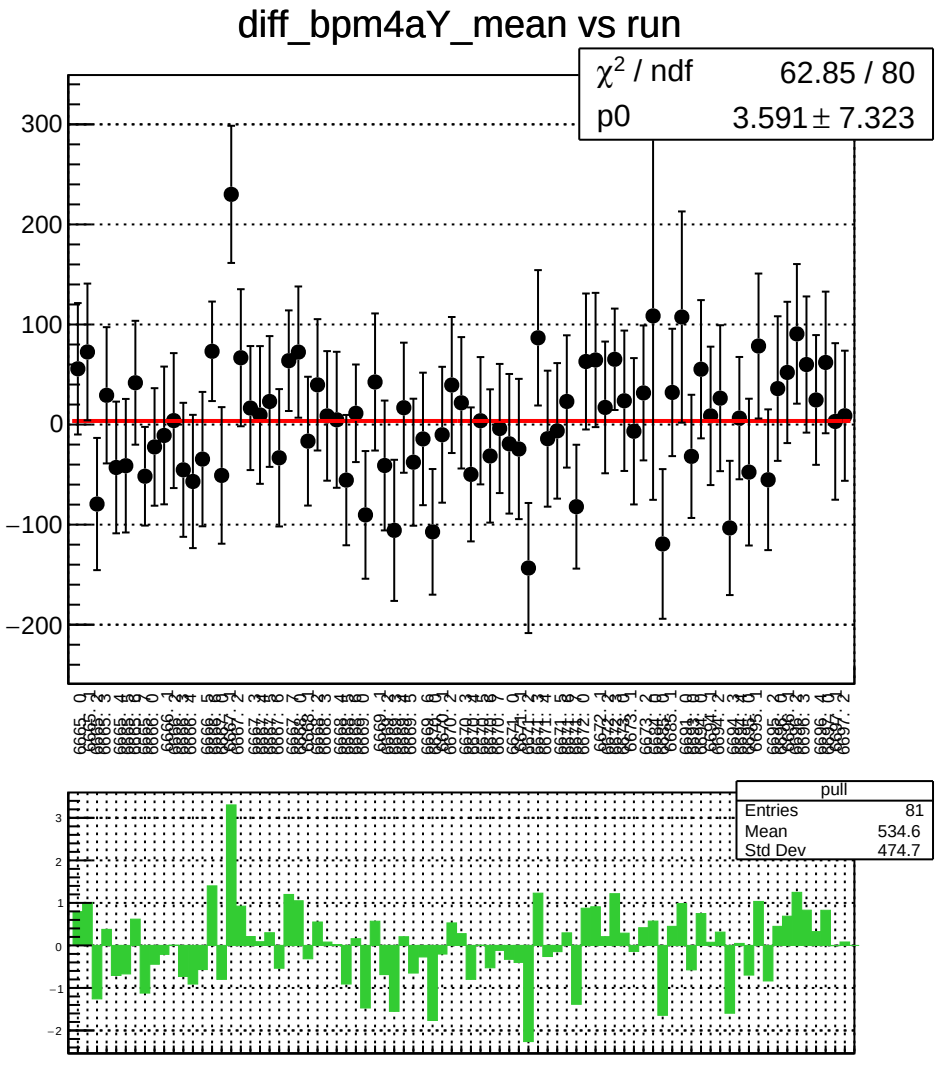

pull1D
Entries 81
Mean 0.008154
Std Dev 0.855

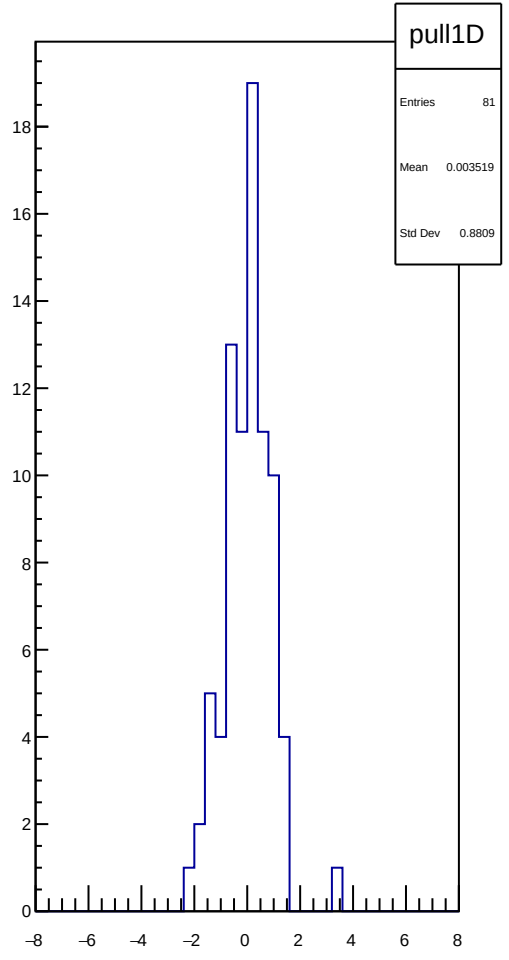

diff_cav4dY_rms vs run
χ² / ndf 1.128e+04 / 80
p0 288.7 ± 0.2335
380
360
340
320
300
280
260

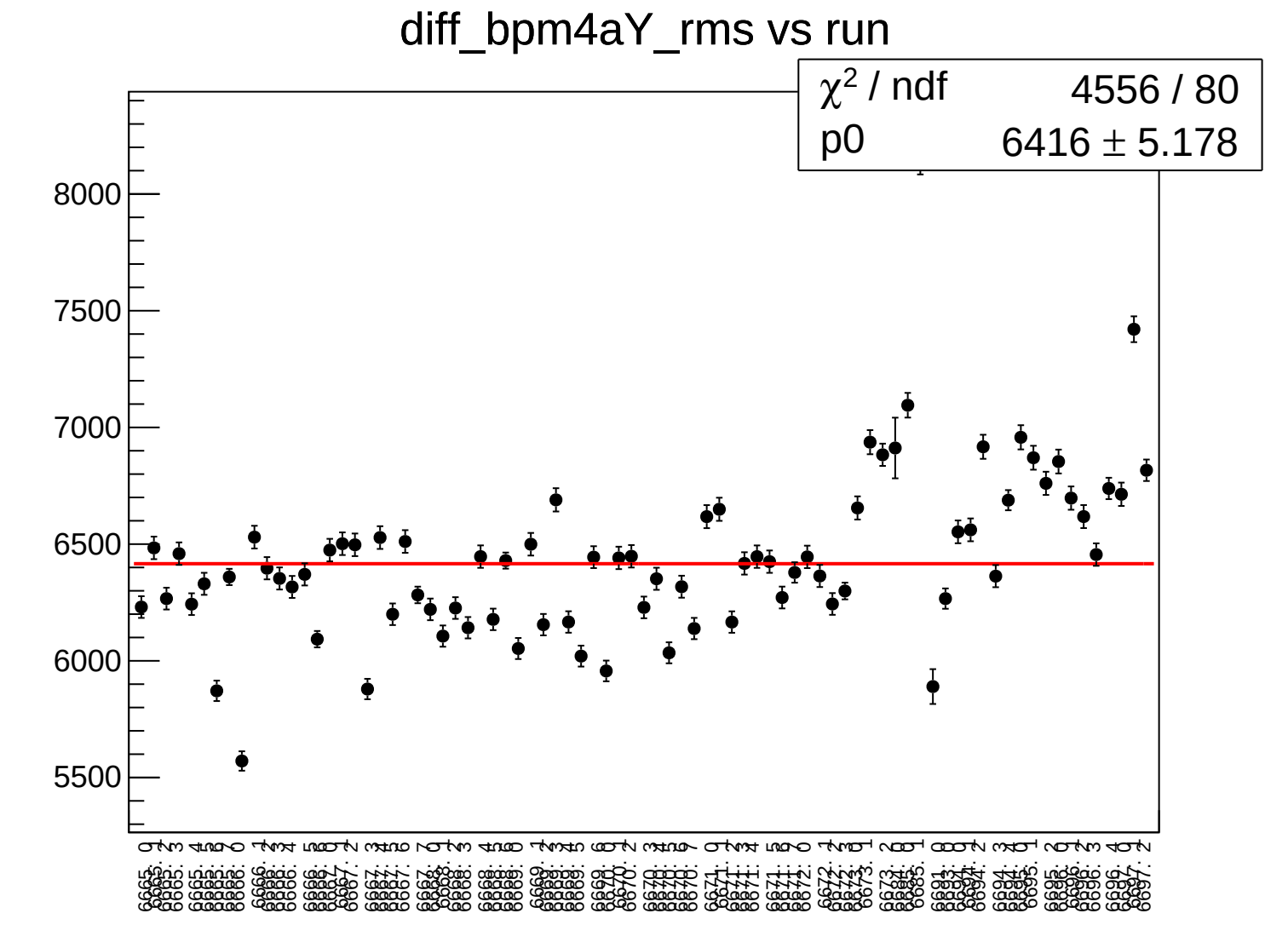

diff_bpm4aX_mean vs run
χ² / ndf 62.14 / 80
p0 −6.071 ± 10.22
pull
Entries 81
Mean 85.07
Std Dev 39.62

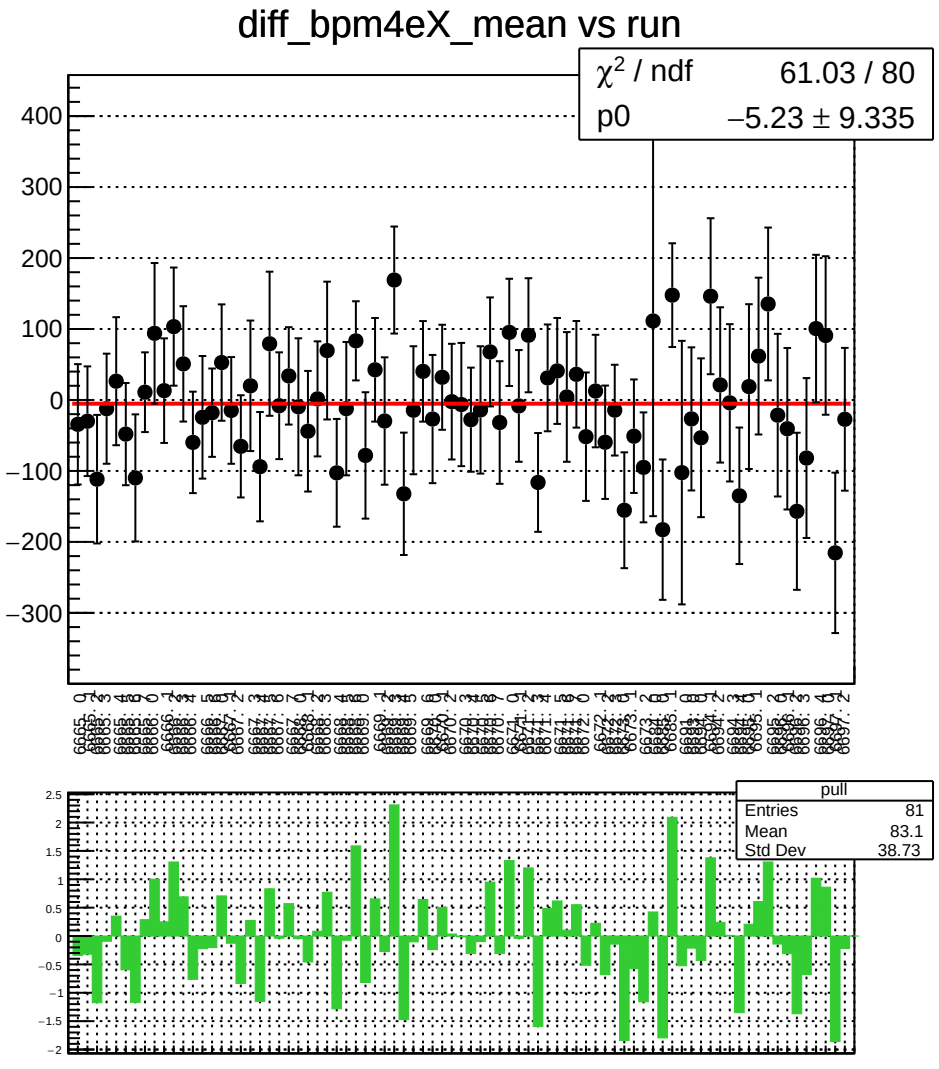

pull1D
Entries 81
Mean −0.01652
Std Dev 0.8757

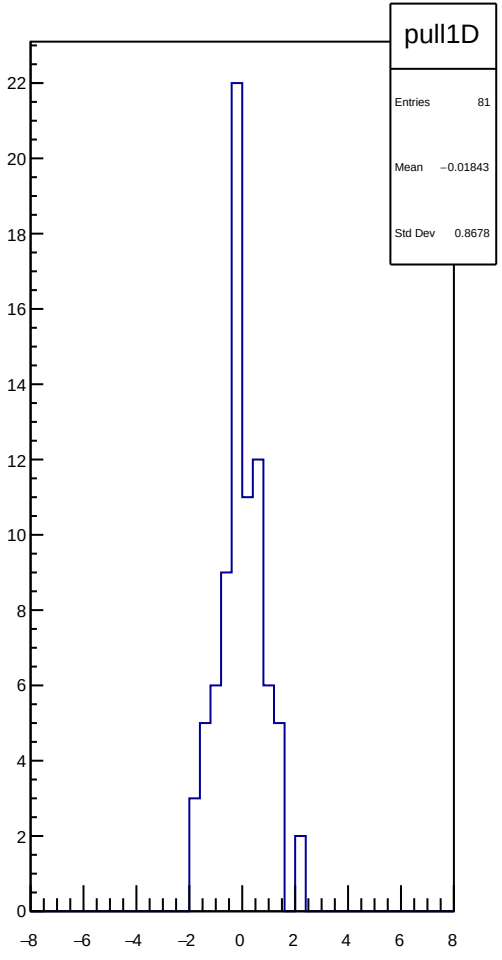

diff_bpm4aX_rms vs run
χ² / ndf 2.446e+04 / 80
p0 8895 ± 7.225
12000
11000
10000
9000
8000
7000

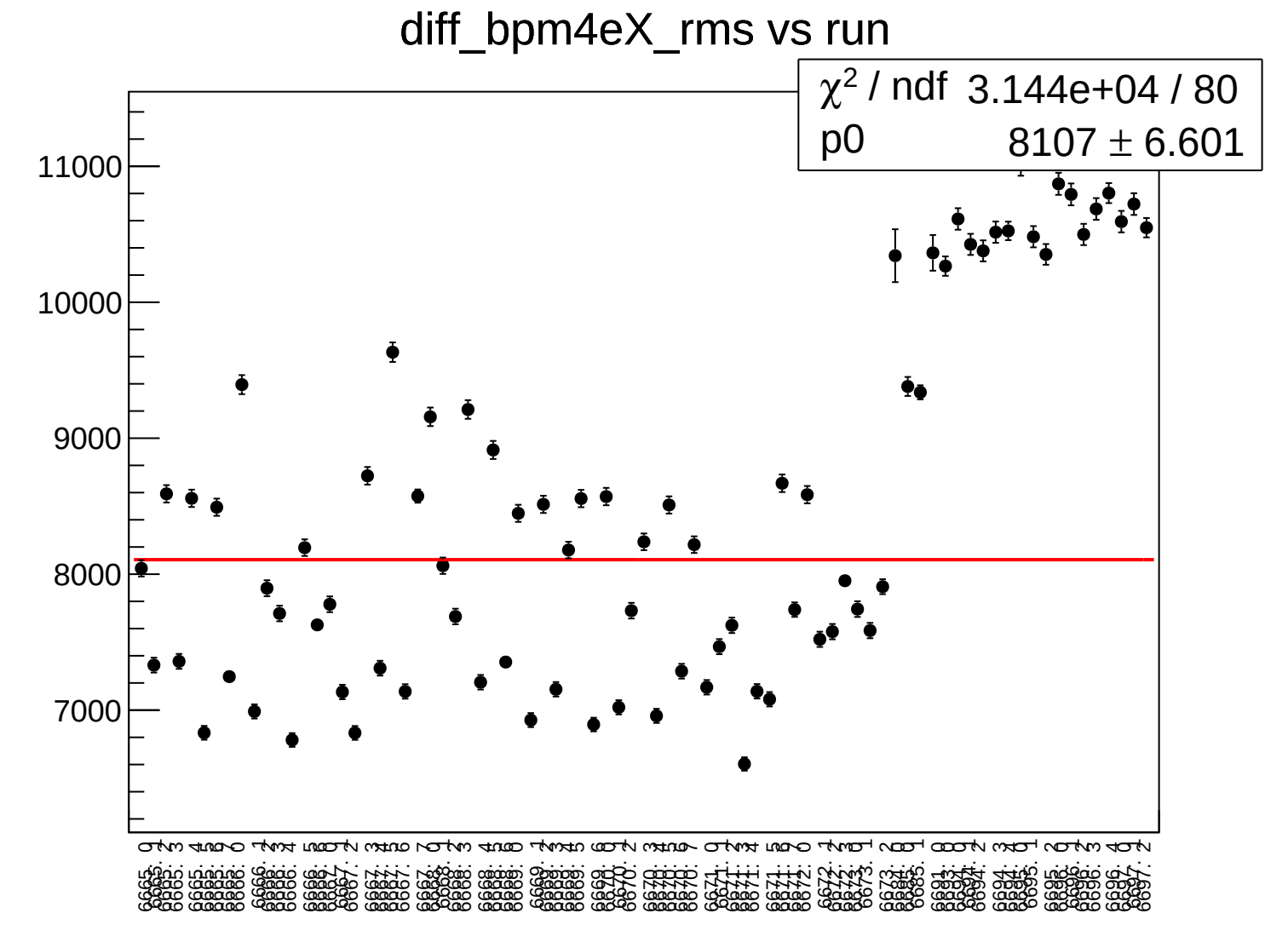

diff_bpm4aY_mean vs run
χ^2 / ndf 62.85 / 80
p0 3.591 ± 7.323
300
200
100
0
−100
−200
pull
Entries 81
Mean 534.6
Std Dev 474.7
3
2
1
0
−1
−2

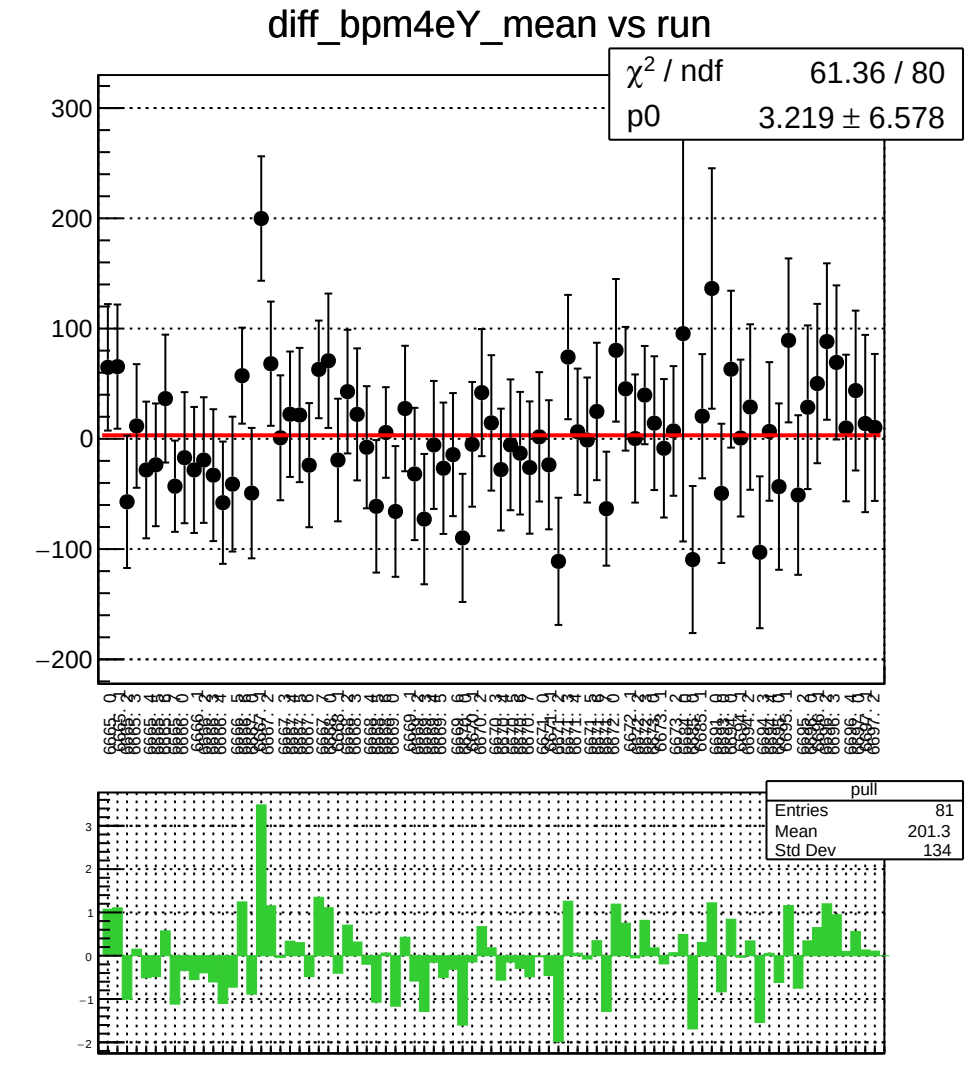

pull1D
Entries 81
Mean 0.003519
Std Dev 0.8809
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

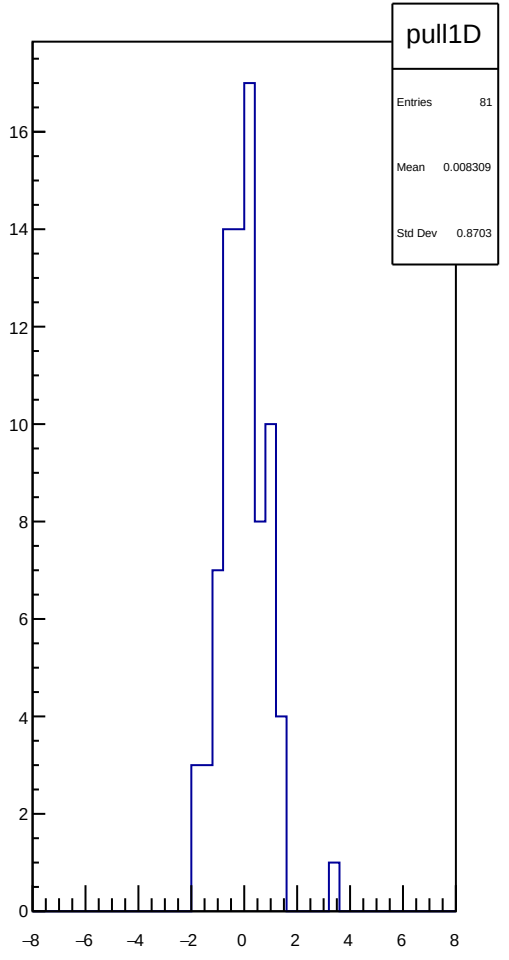

diff_bpm4aY_rms vs run
χ² / ndf 4556 / 80
p0 6416 ± 5.178
8000
7500
7000
6500
6000
5500

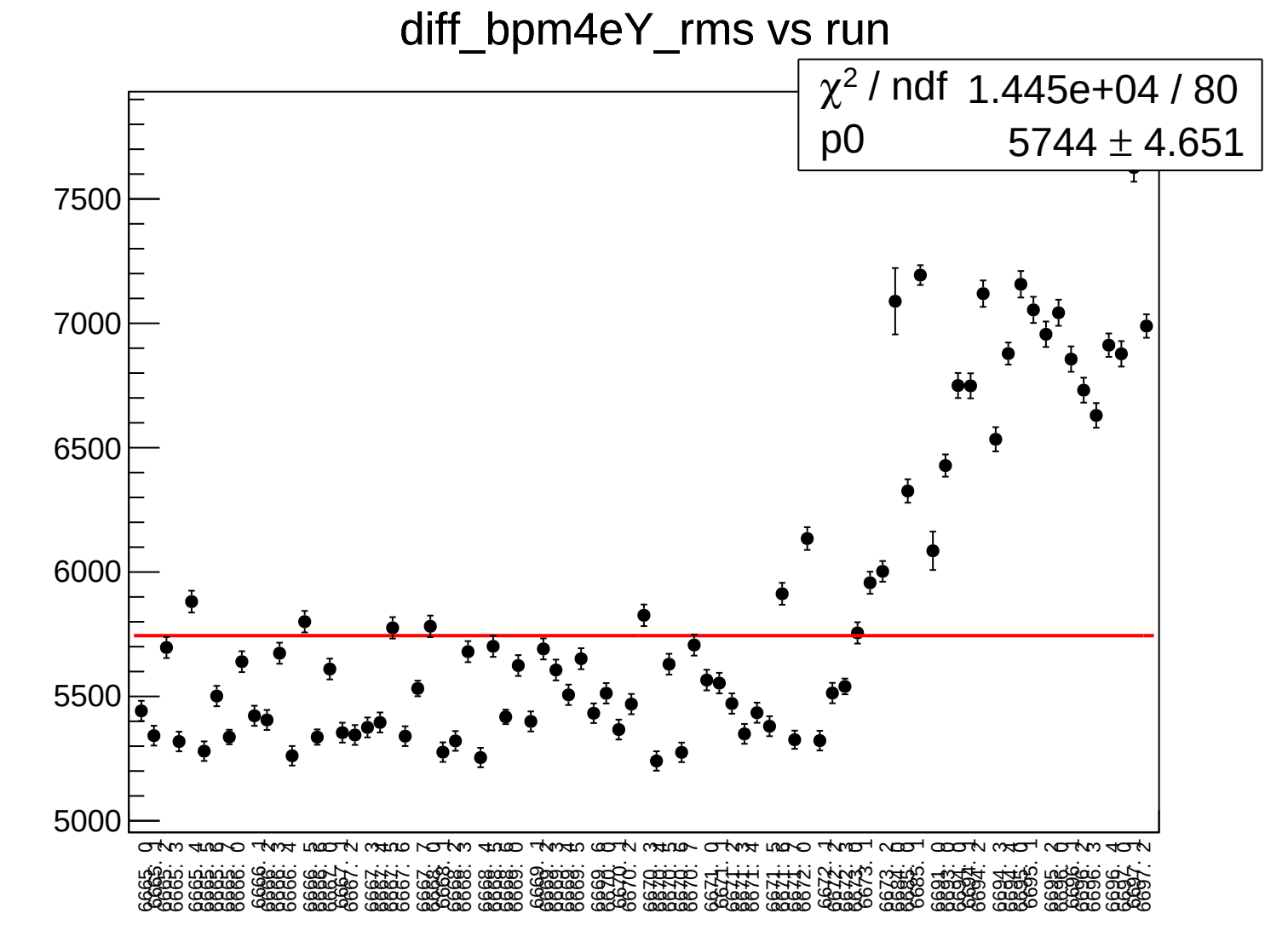

diff_bpm4eX_mean vs run
χ² / ndf 61.03 / 80
p0 −5.23 ± 9.335
pull
Entries 81
Mean 83.1
Std Dev 38.73

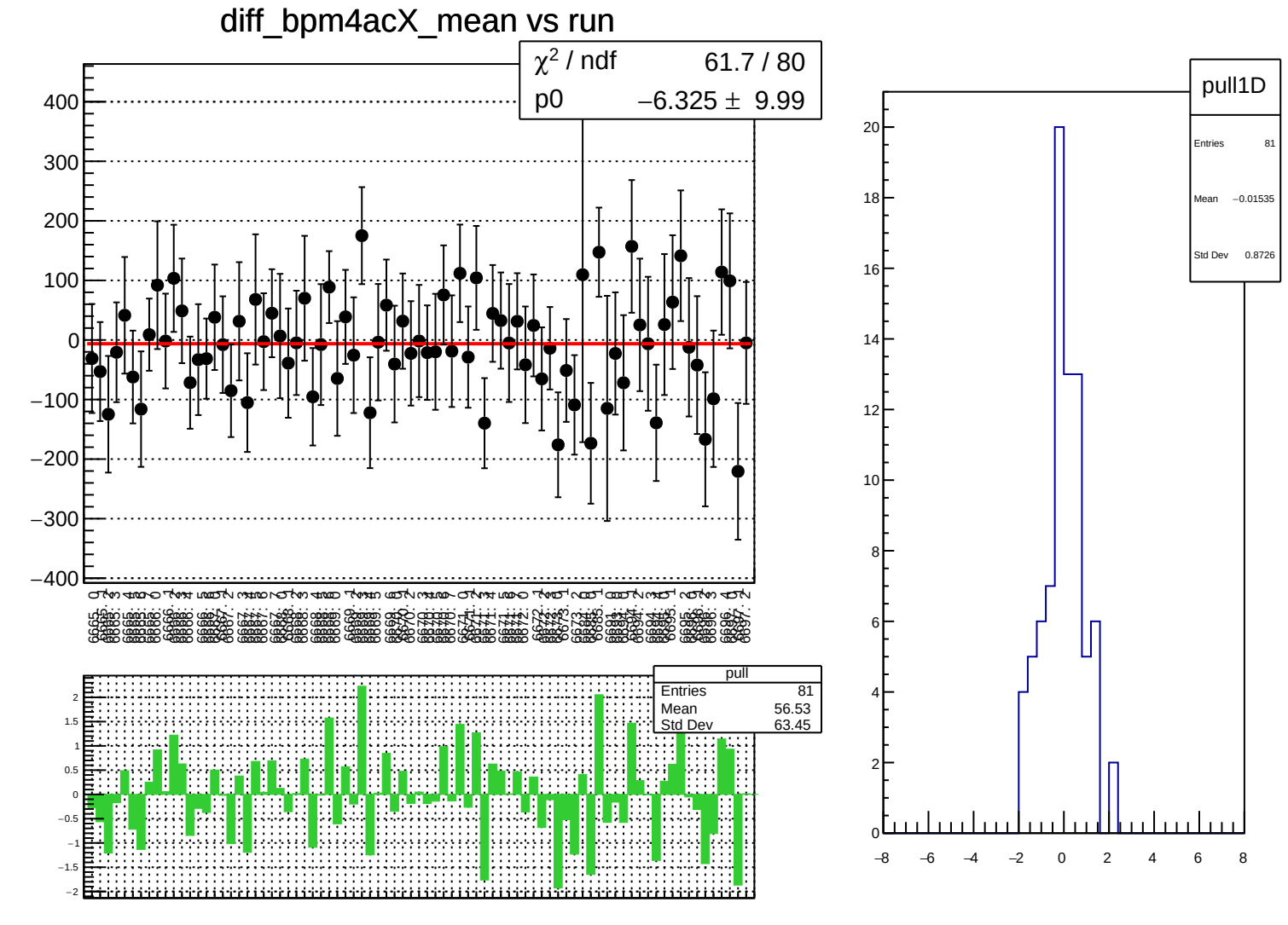

pull1D
Entries 81
Mean −0.01843
Std Dev 0.8678

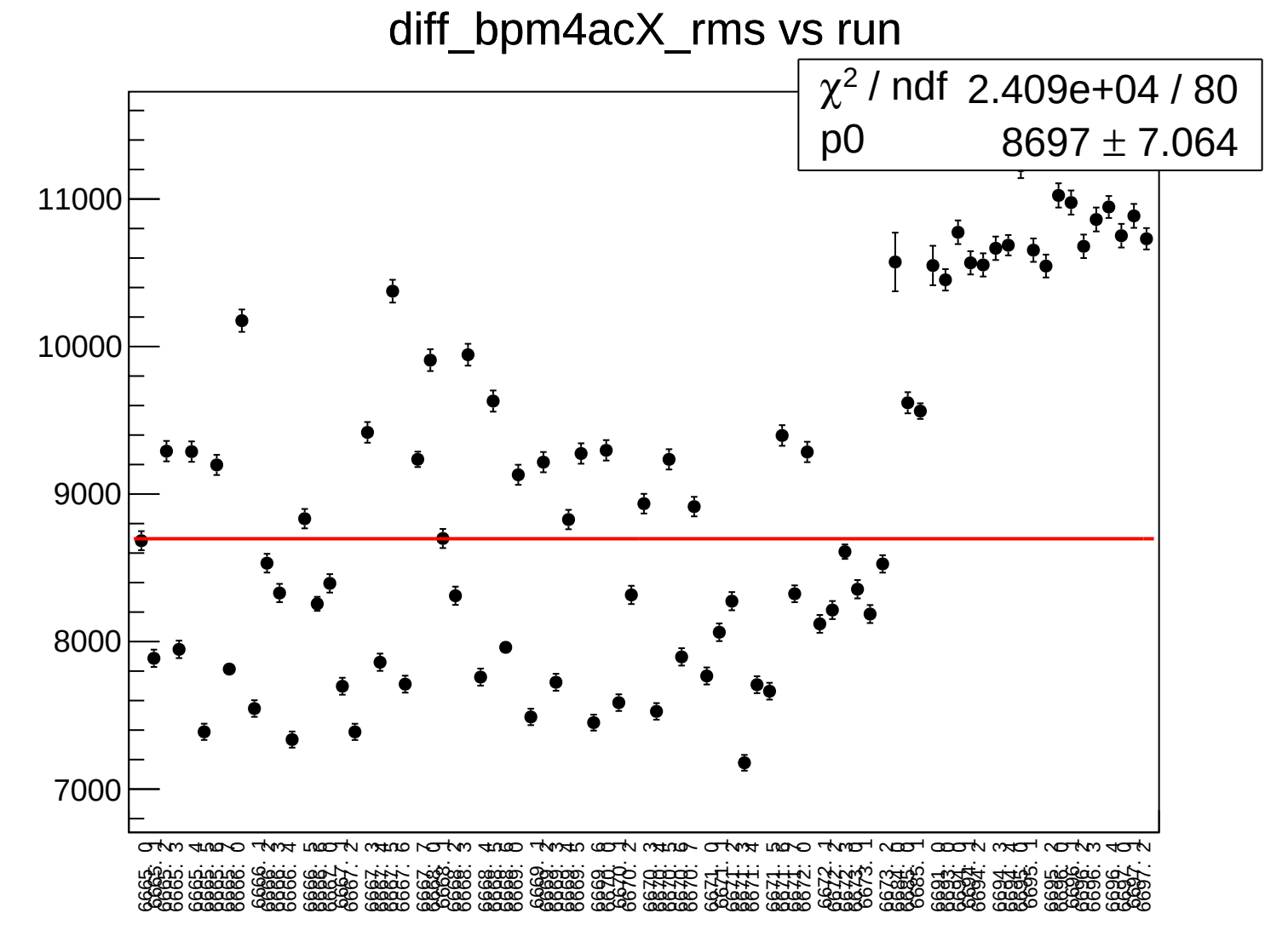

diff_bpm4eX_rms vs run
χ² / ndf 3.144e+04 / 80
p0 8107 ± 6.601
11000
10000
9000
8000
7000

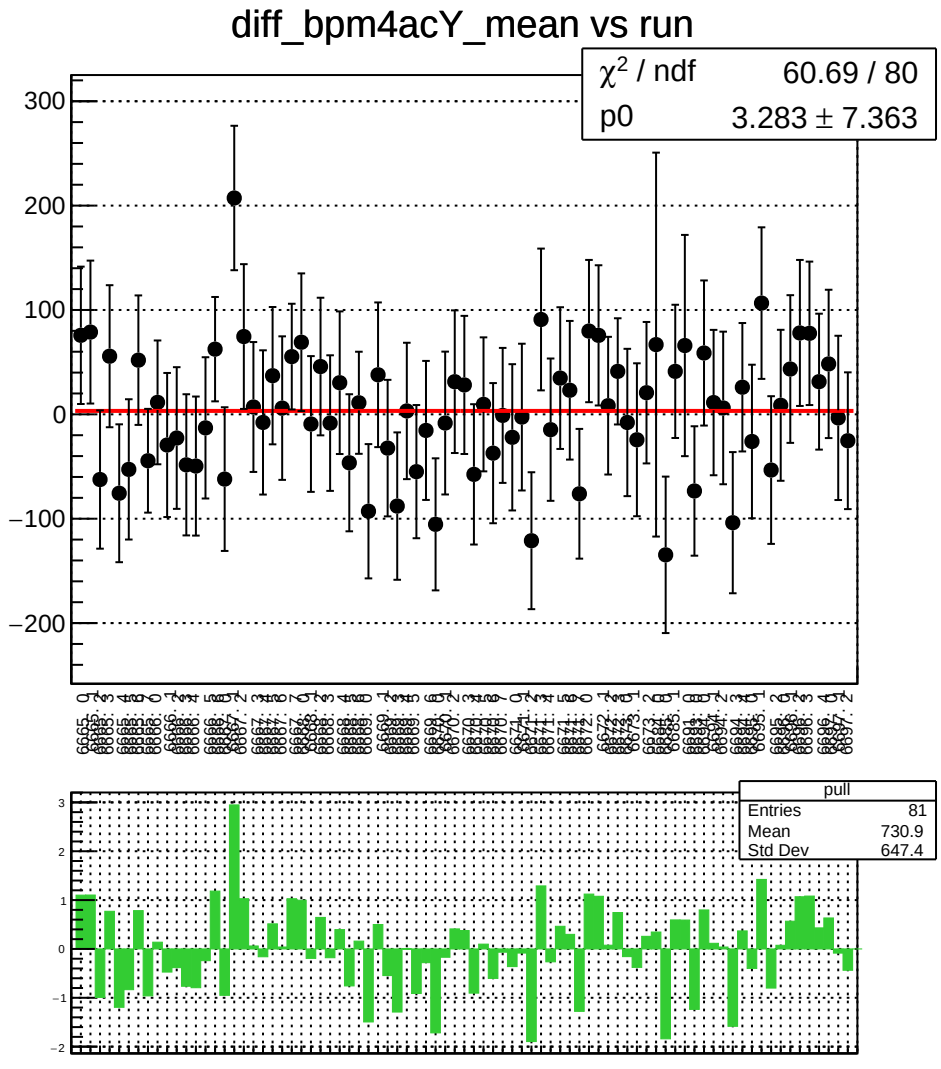

diff_bpm4eY_mean vs run
χ² / ndf 61.36 / 80
p0 3.219 ± 6.578
pull
Entries 81
Mean 201.3
Std Dev 134

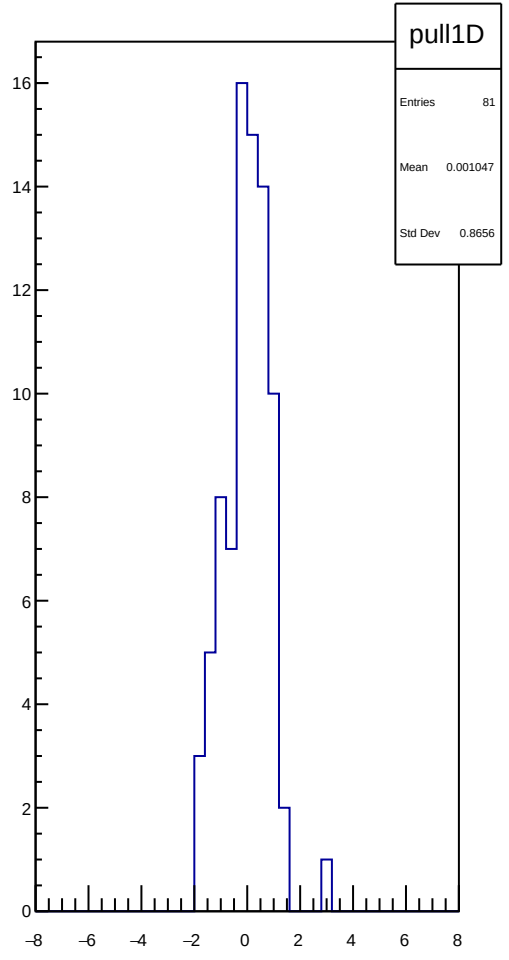

pull1D
Entries 81
Mean 0.008309
Std Dev 0.8703

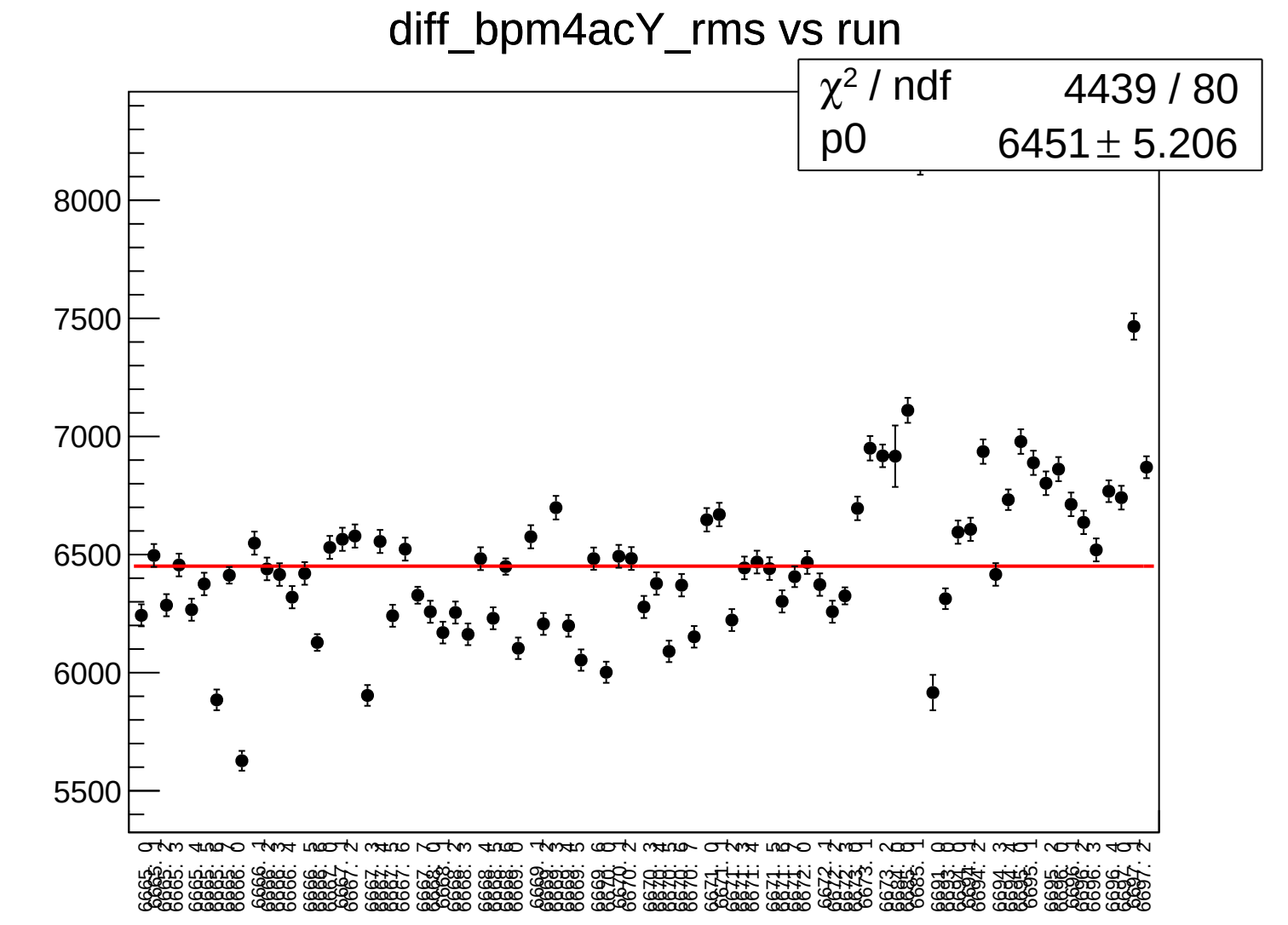

diff_bpm4eY_rms vs run
χ² / ndf 1.445e+04 / 80
p0 5744 ± 4.651
7500
7000
6500
6000
5500
5000

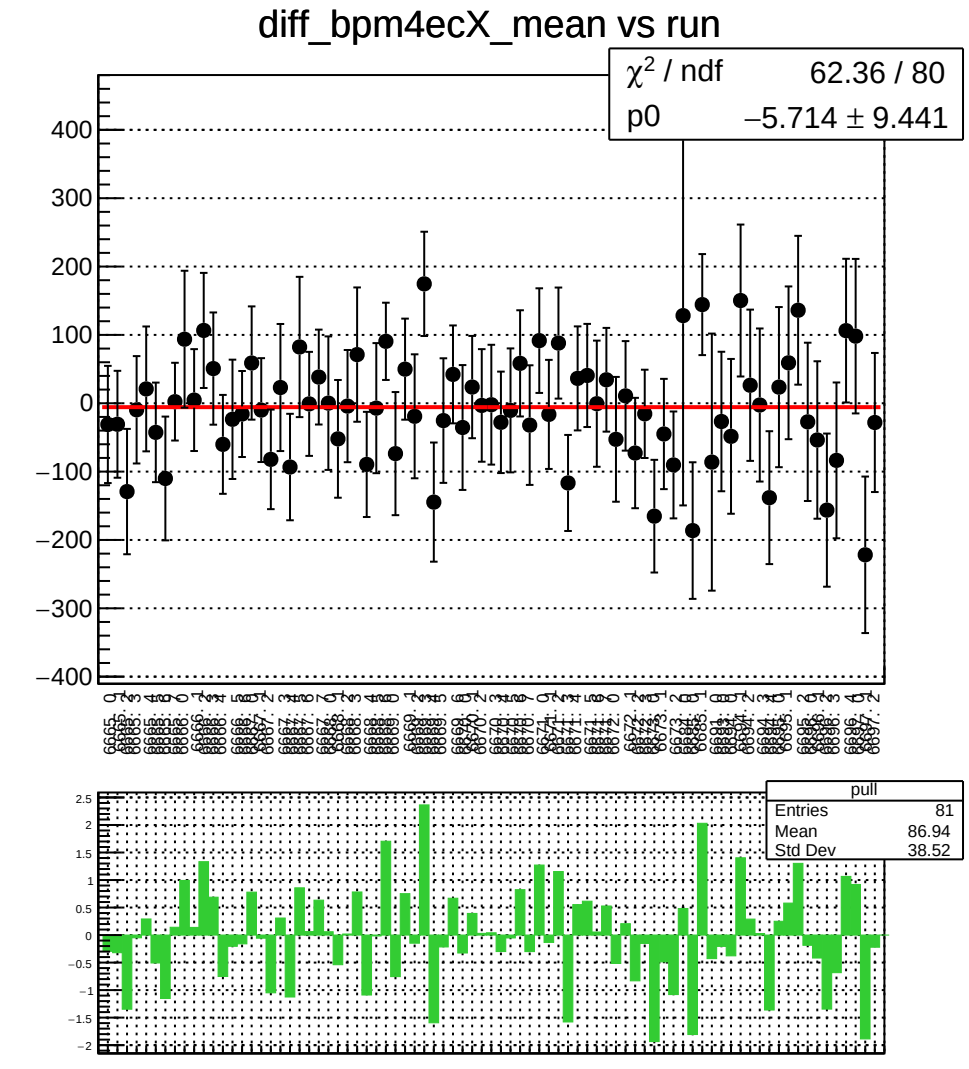

diff_bpm4acX_mean vs run
χ² / ndf 61.7 / 80
p0 −6.325 ± 9.99
pull
Entries 81
Mean 56.53
Std Dev 63.45
pull1D
Entries 81
Mean −0.01535
Std Dev 0.8726

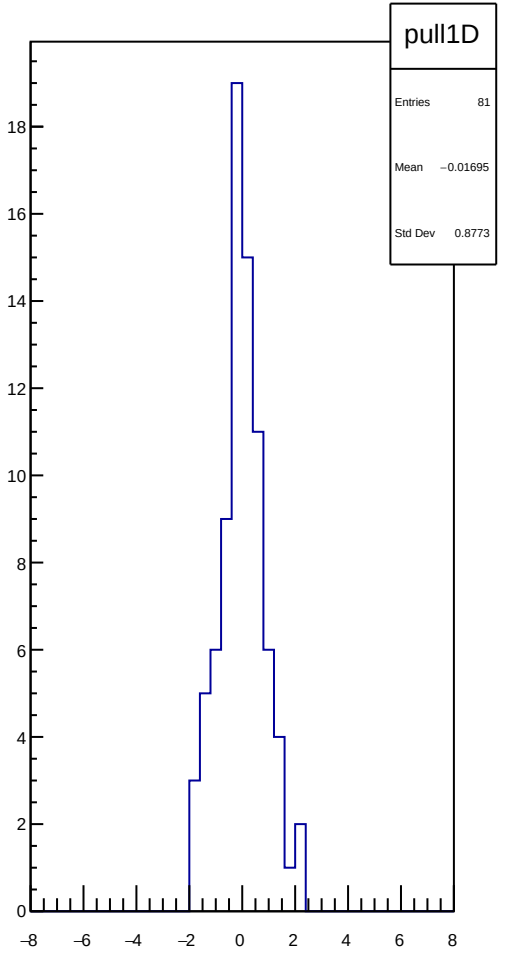

diff_bpm4acX_rms vs run
χ^2 / ndf 2.409e+04 / 80
p0 8697 ± 7.064
11000
10000
9000
8000
7000

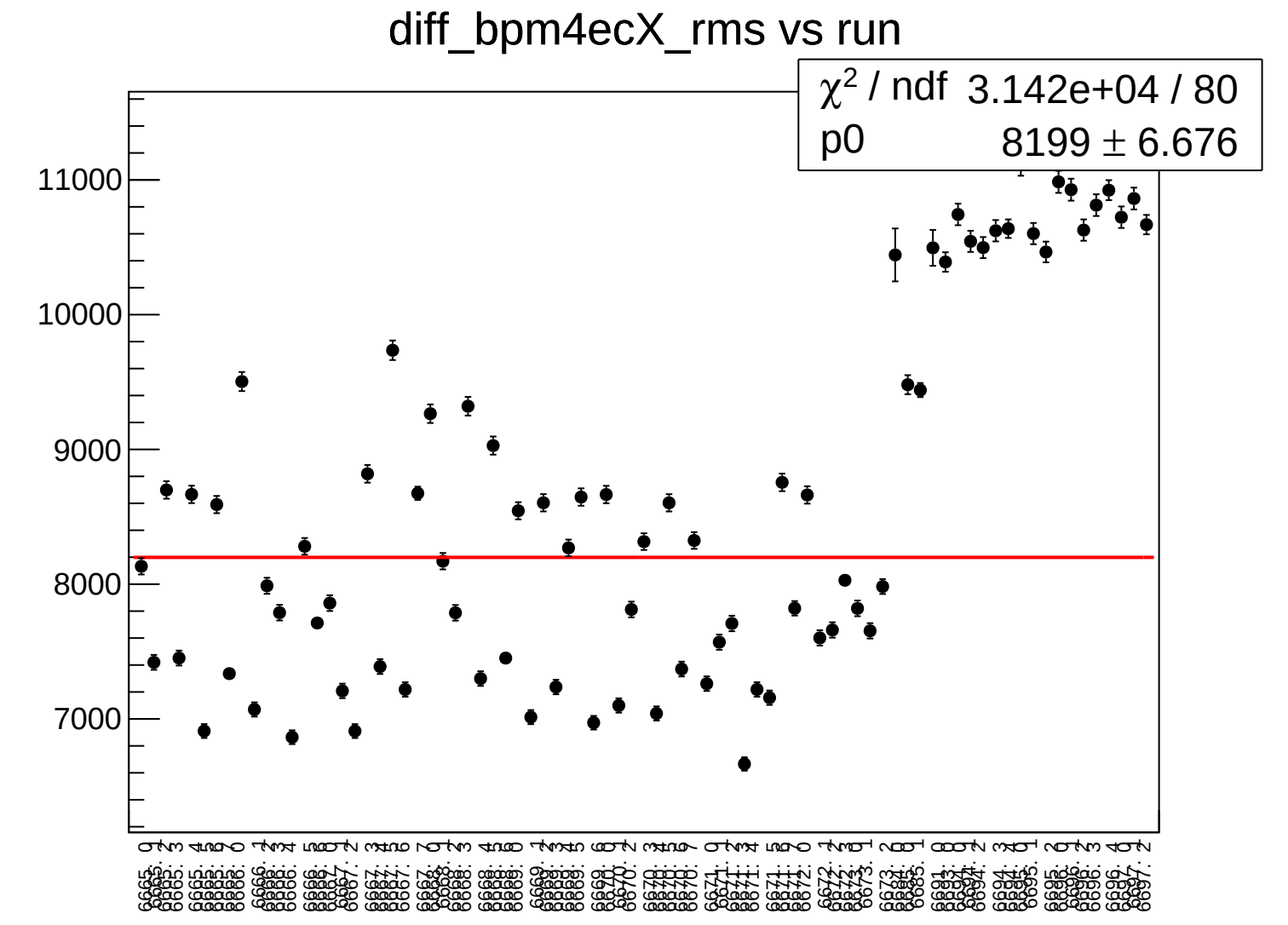

diff_bpm4acY_mean vs run
χ^2 / ndf 60.69 / 80
p0 3.283 ± 7.363
300
200
100
0
−100
−200
pull
Entries 81
Mean 730.9
Std Dev 647.4
3
2
1
0
−1
−2

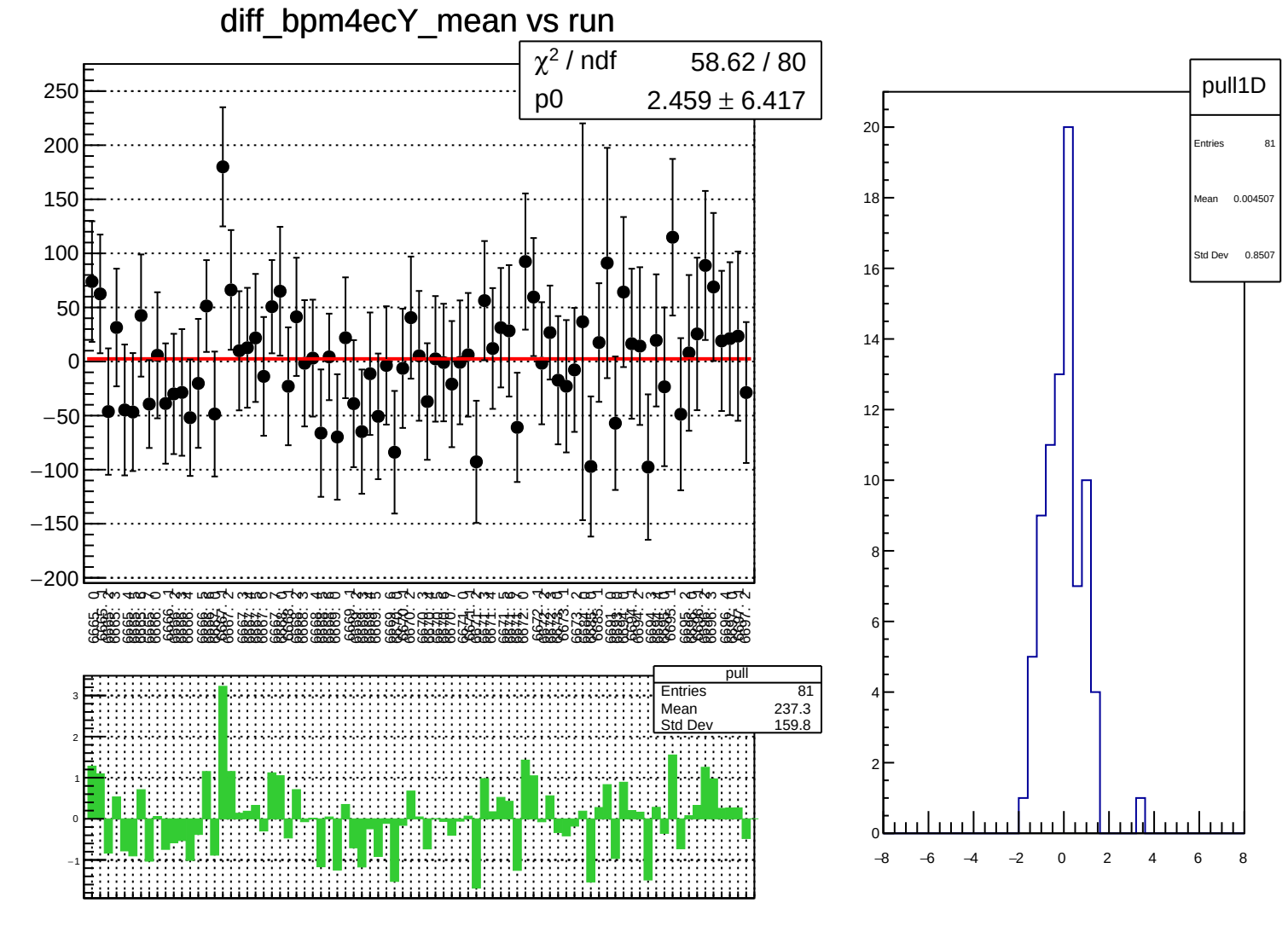

pull1D
Entries 81
Mean 0.001047
Std Dev 0.8656
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

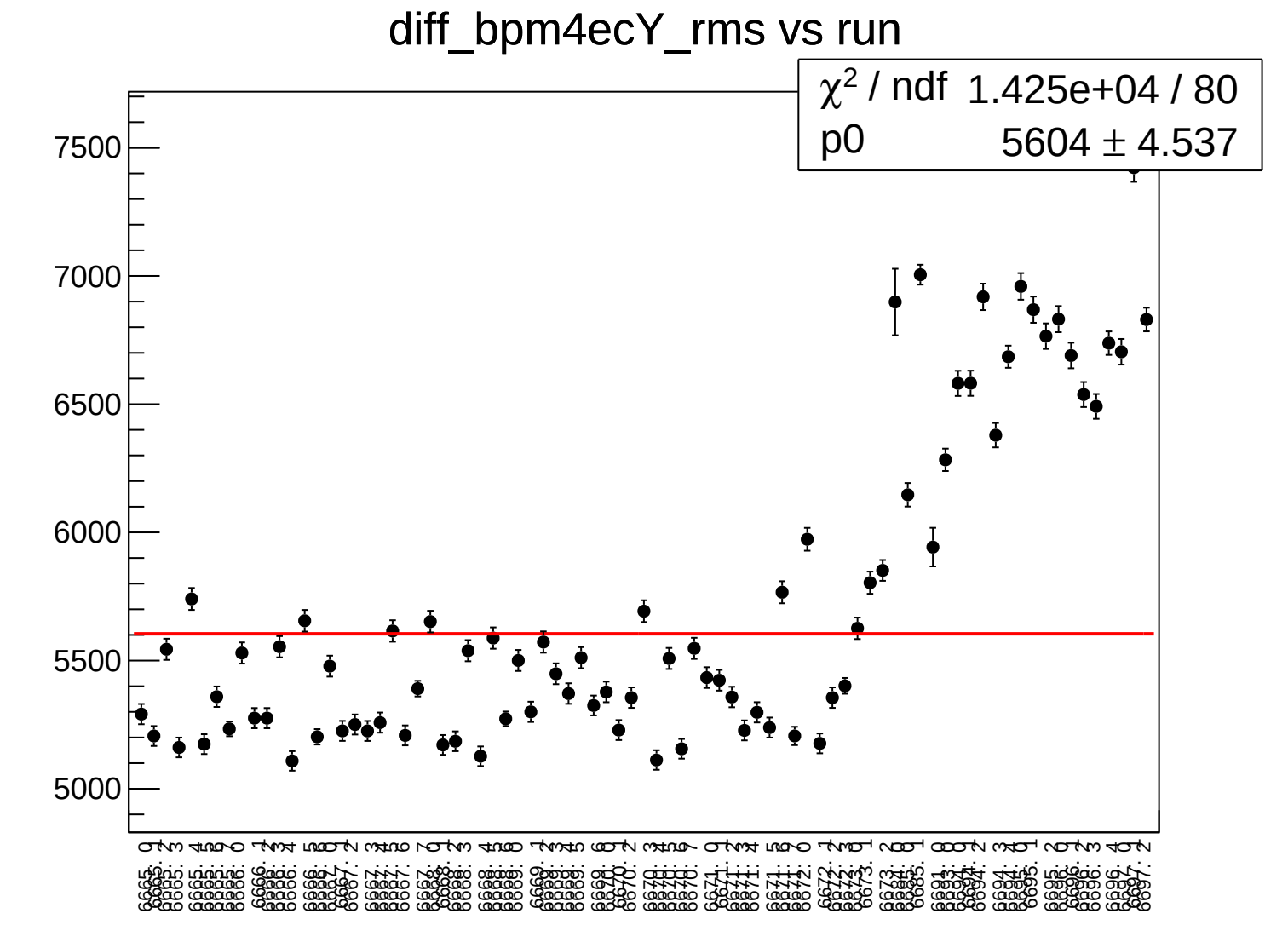

diff_bpm4acY_rms vs run
χ² / ndf 4439 / 80
p0 6451 ± 5.206
8000
7500
7000
6500
6000
5500

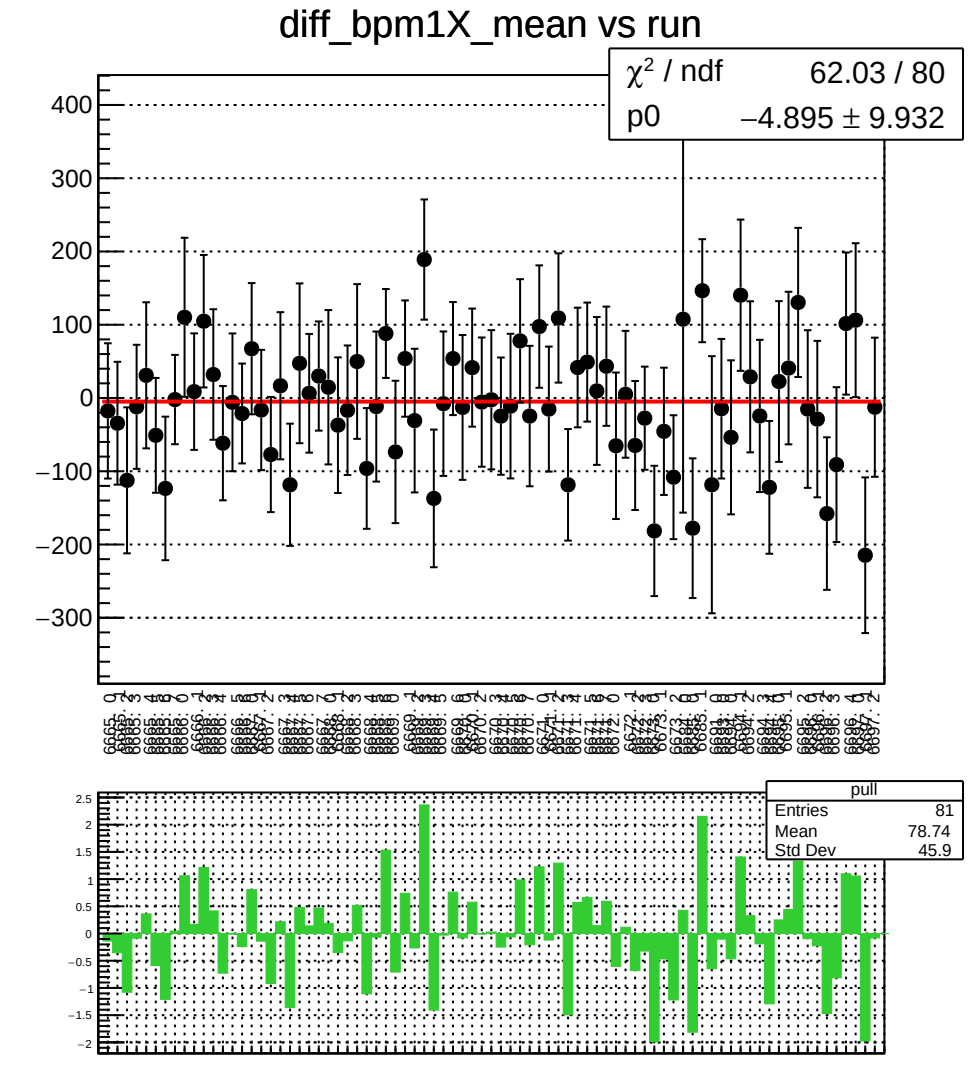

diff_bpm4ecX_mean vs run
χ² / ndf 62.36 / 80
p0 −5.714 ± 9.441
pull
Entries 81
Mean 86.94
Std Dev 38.52

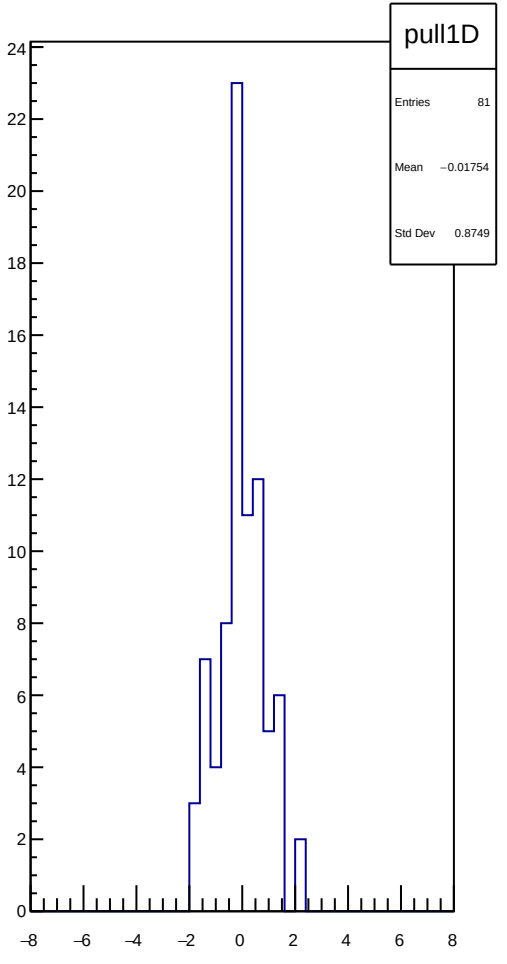

pull1D
Entries 81
Mean −0.01695
Std Dev 0.8773

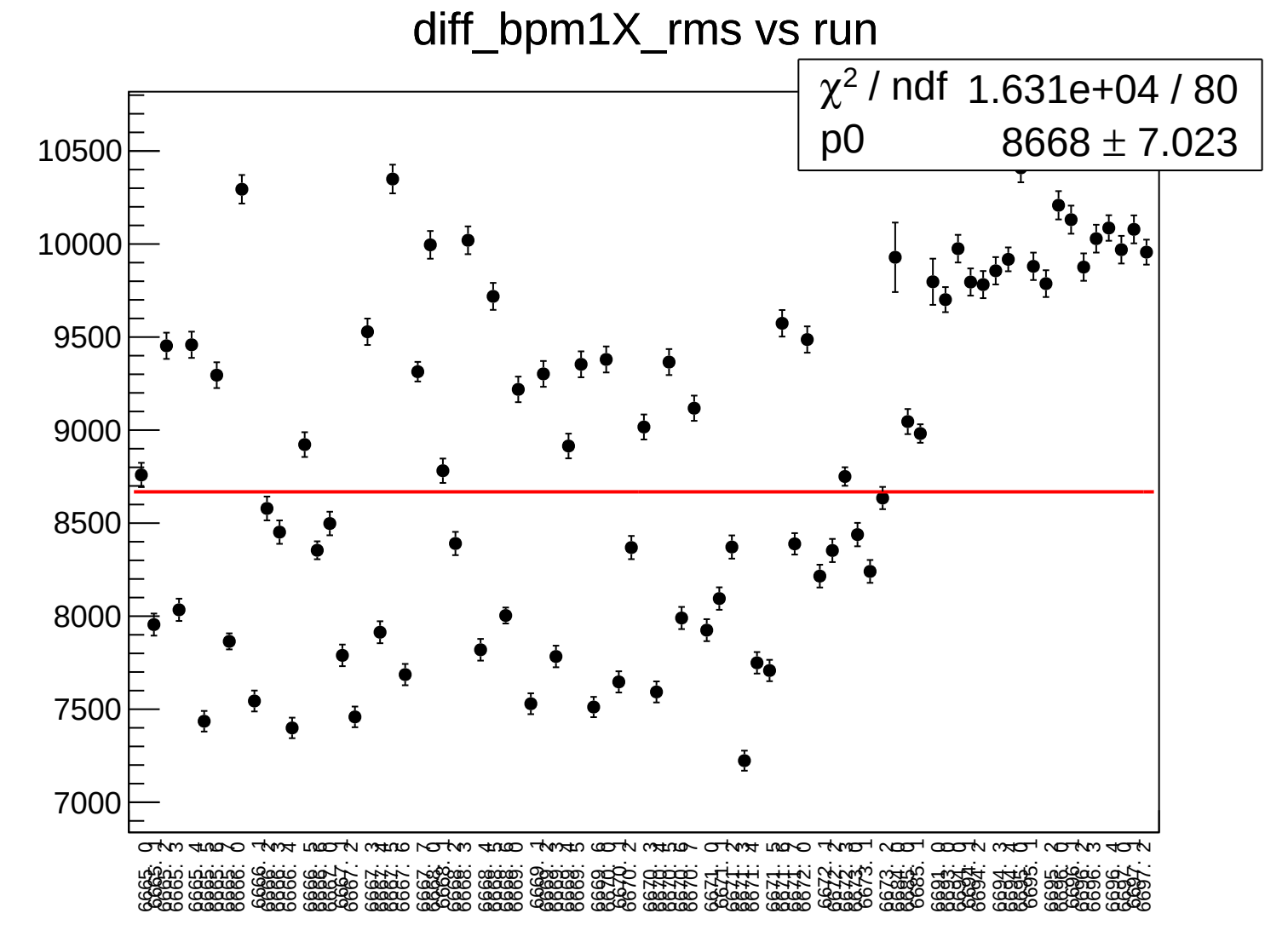

diff_bpm4ecX_rms vs run
χ² / ndf 3.142e+04 / 80
p0 8199 ± 6.676
11000
10000
9000
8000
7000

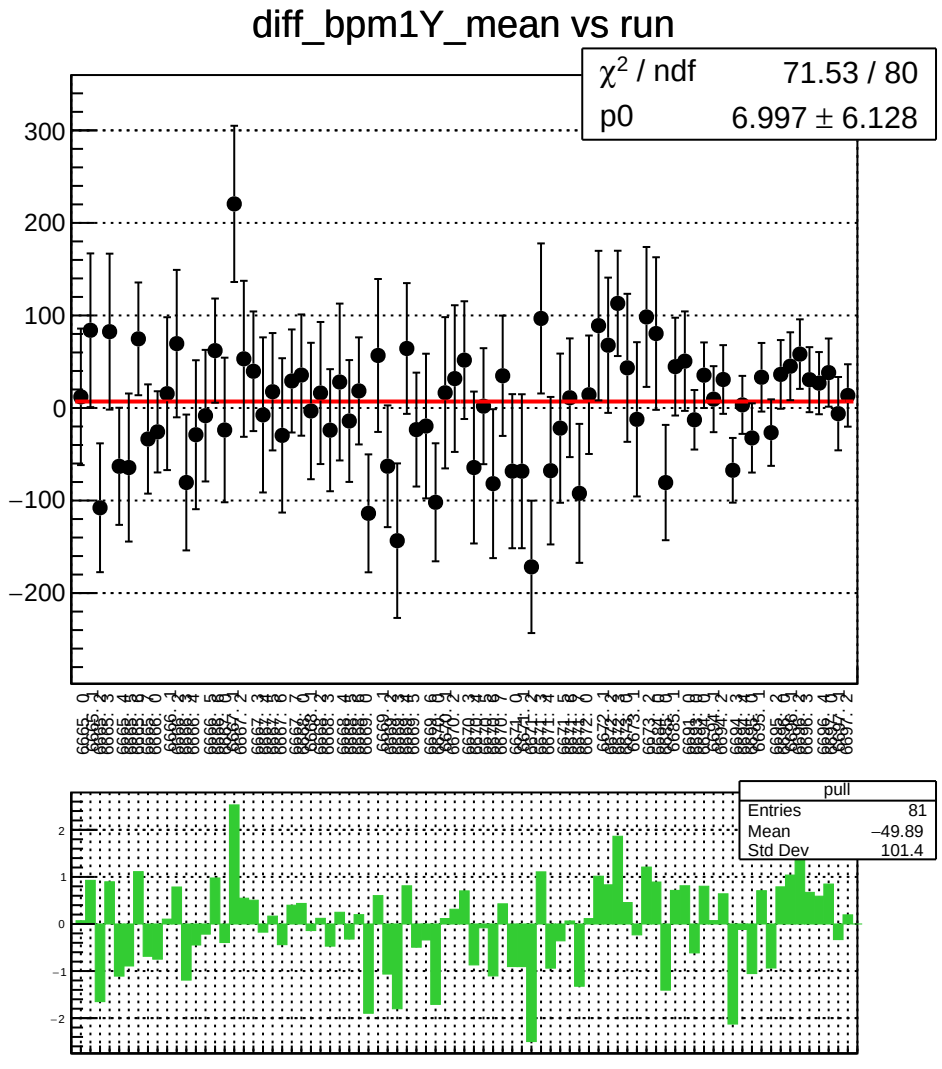

diff_bpm4ecY_mean vs run
χ² / ndf 58.62 / 80
p0 2.459 ± 6.417
pull
Entries 81
Mean 237.3
Std Dev 159.8
pull1D
Entries 81
Mean 0.004507
Std Dev 0.8507

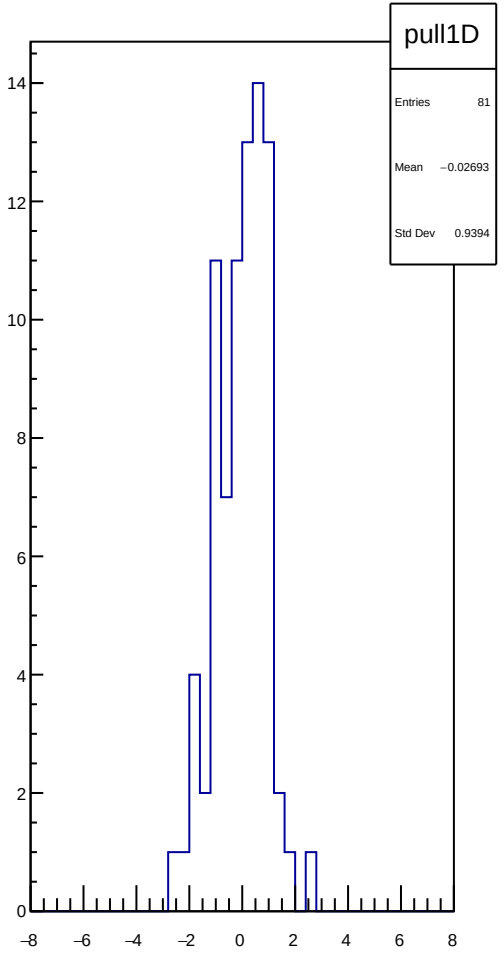

diff_bpm4ecY_rms vs run
χ² / ndf 1.425e+04 / 80
p0 5604 ± 4.537
7500
7000
6500
6000
5500
5000

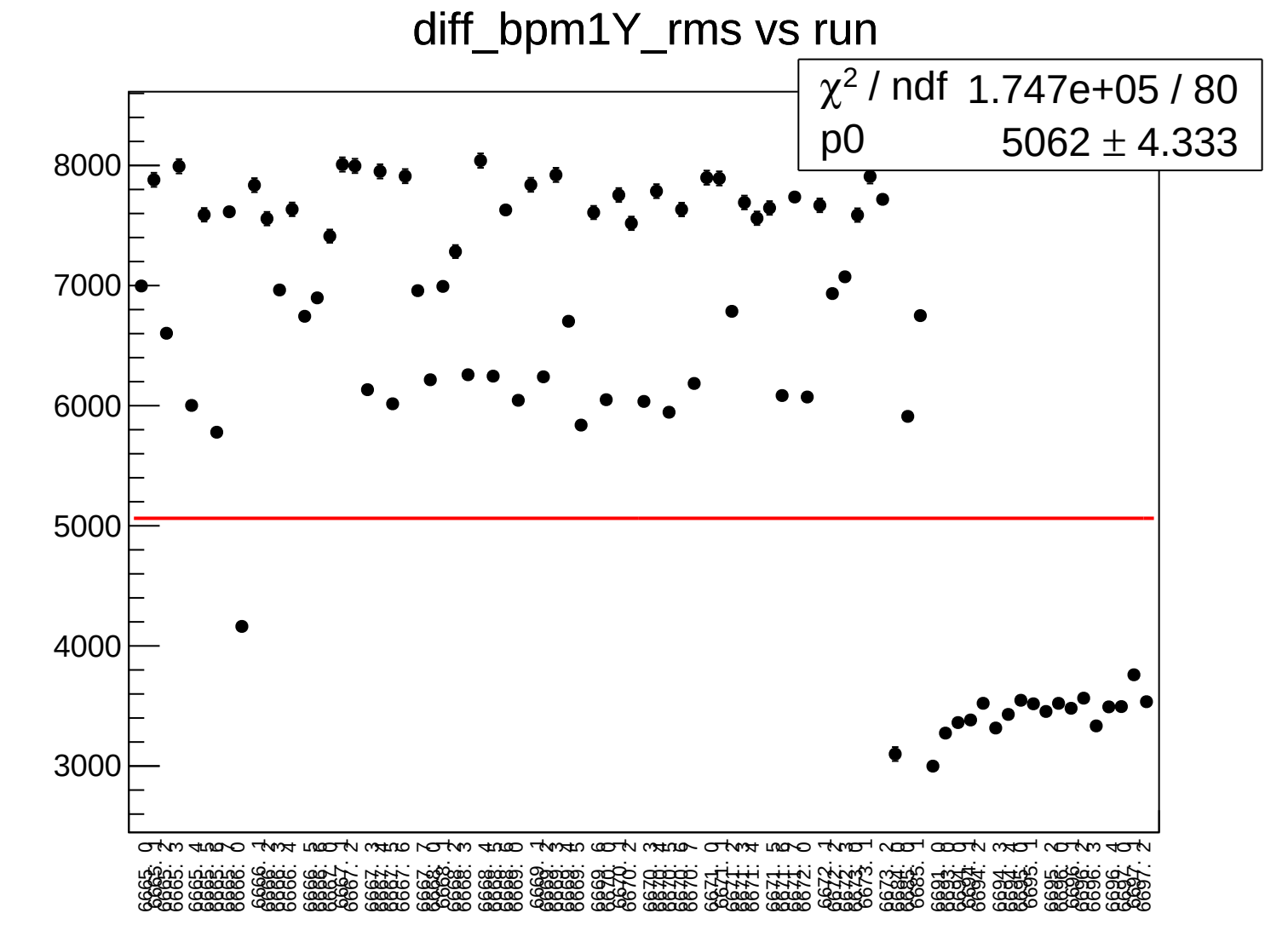

diff_bpm1X_mean vs run
χ² / ndf 62.03 / 80
p0 −4.895 ± 9.932
pull
Entries 81
Mean 78.74
Std Dev 45.9

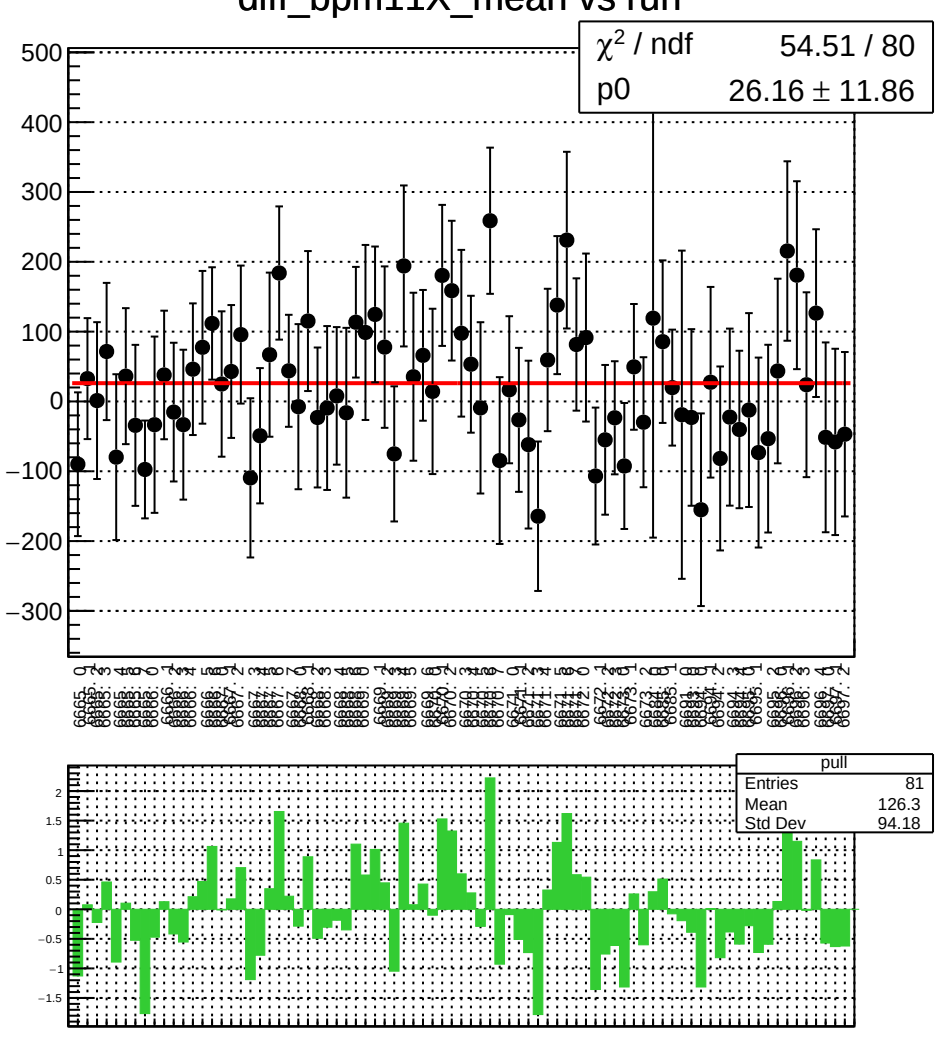

pull1D
Entries 81
Mean −0.01754
Std Dev 0.8749

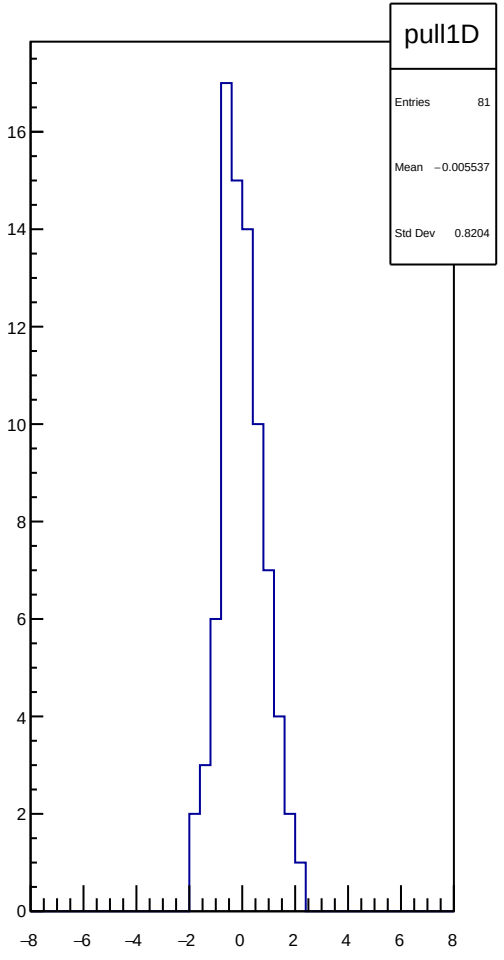

diff_bpm1X_rms vs run
χ^2 / ndf 1.631e+04 / 80
p0 8668 ± 7.023
10500
10000
9500
9000
8500
8000
7500
7000

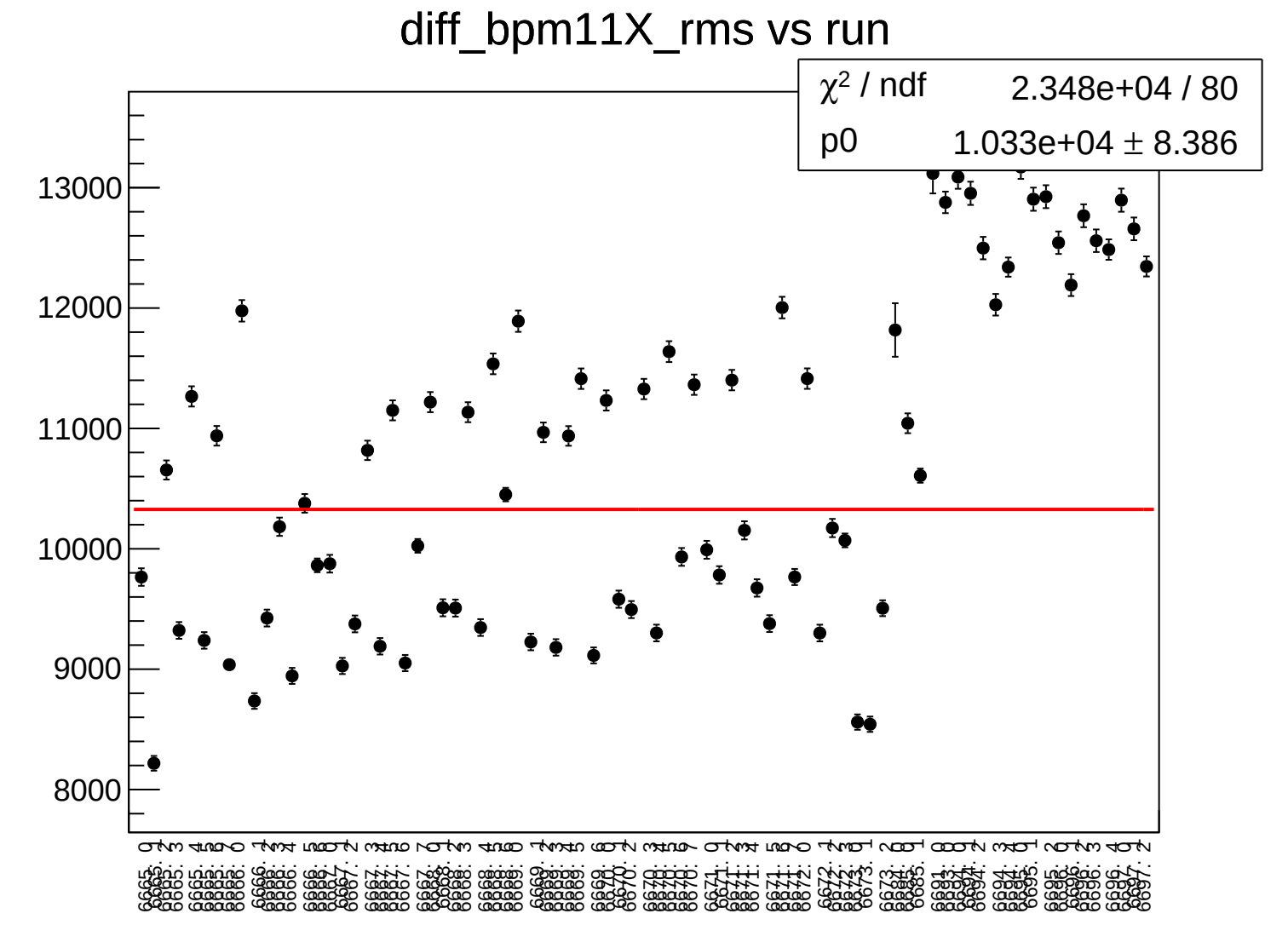

diff_bpm1Y_mean vs run
χ² / ndf 71.53 / 80
p0 6.997 ± 6.128
300
200
100
0
−100
−200
pull
Entries 81
Mean −49.89
Std Dev 101.4
2
1
0
−1
−2

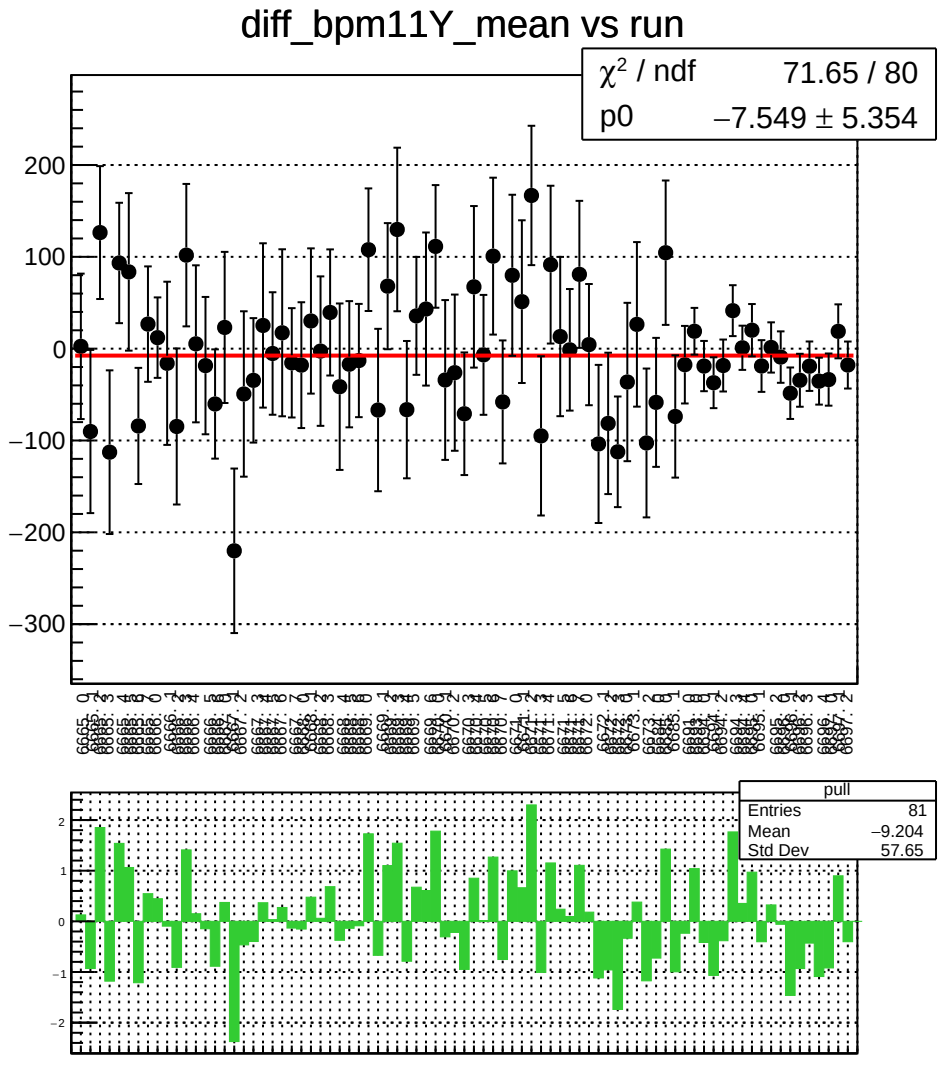

pull1D
Entries 81
Mean −0.02693
Std Dev 0.9394
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

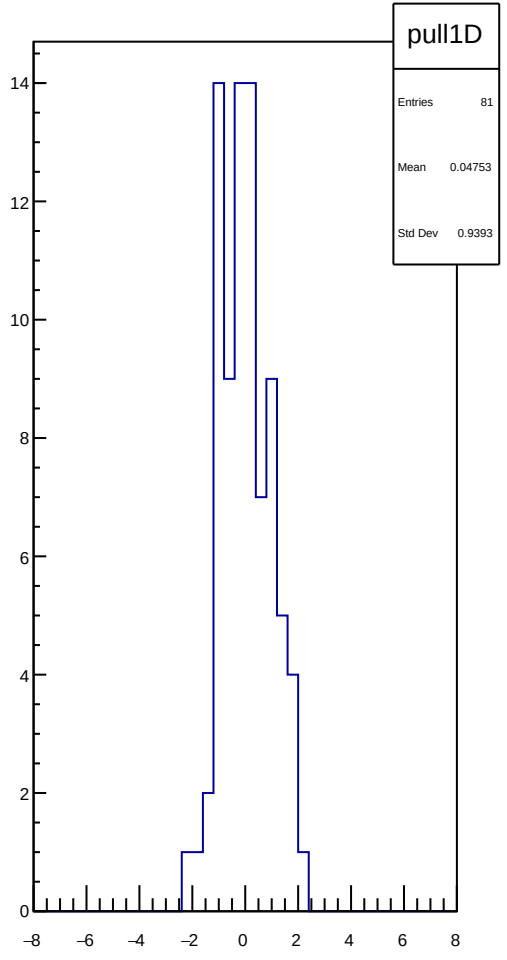

diff_bpm1Y_rms vs run
χ² / ndf 1.747e+05 / 80
p0 5062 ± 4.333
8000
7000
6000
5000
4000
3000

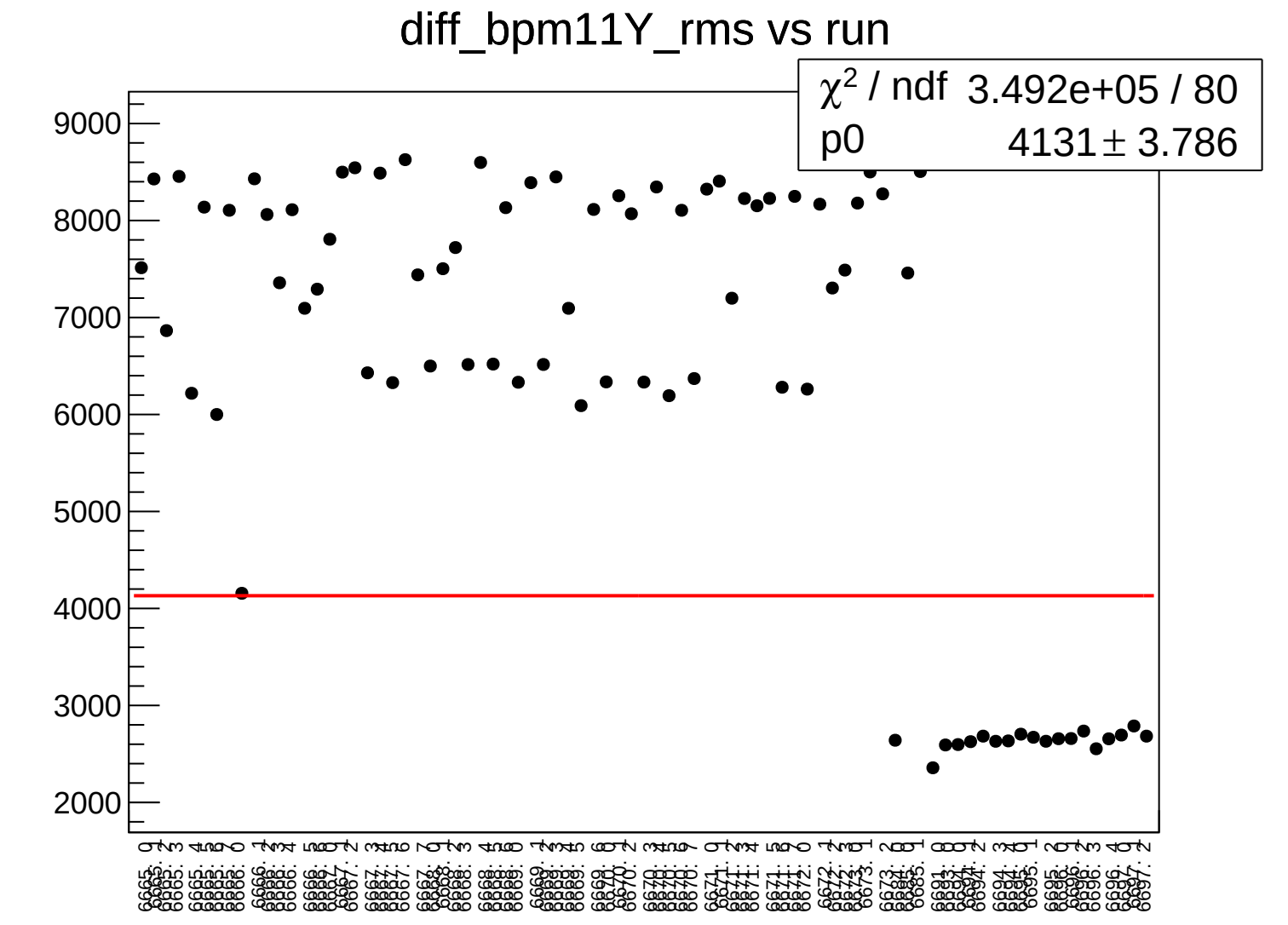

diff_bpm11X_mean vs run
χ² / ndf 54.51 / 80
p0 26.16 ± 11.86
pull
Entries 81
Mean 126.3
Std Dev 94.18

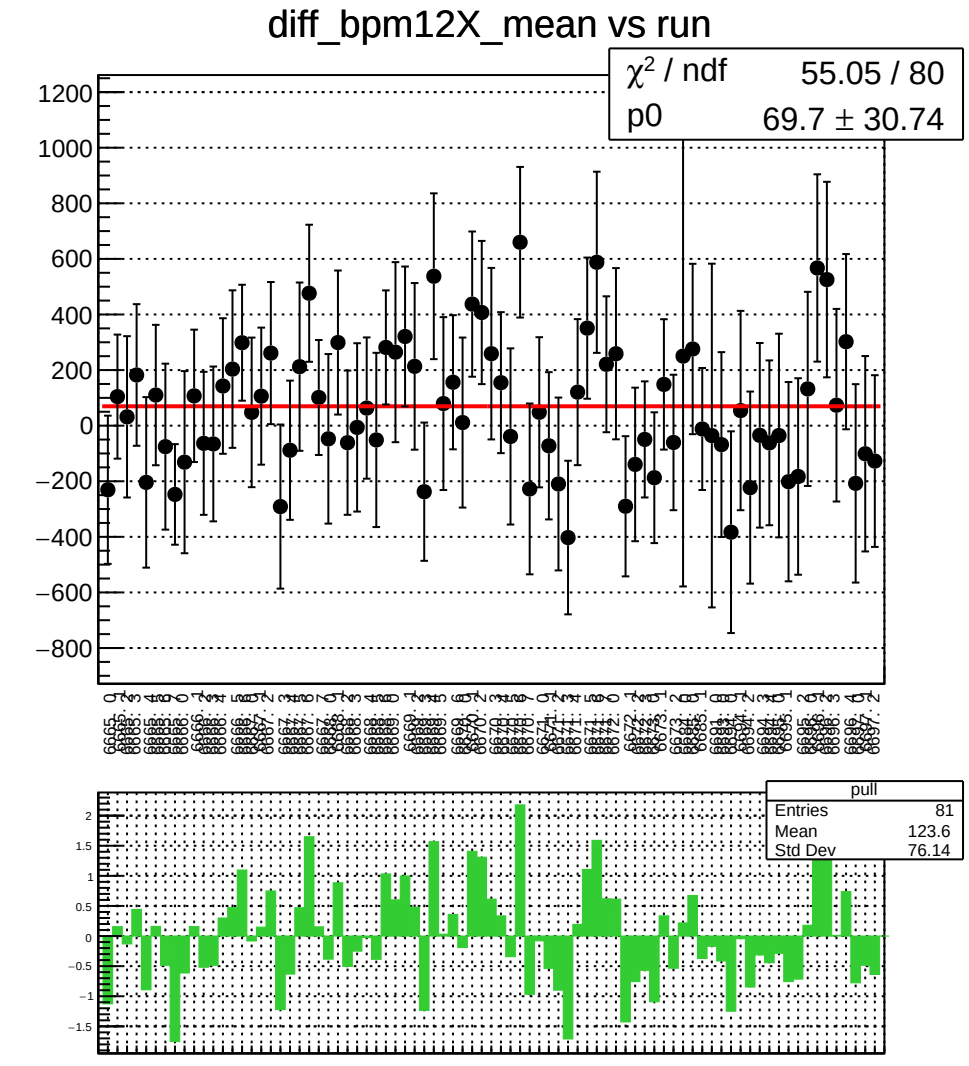

pull1D
Entries 81
Mean −0.005537
Std Dev 0.8204

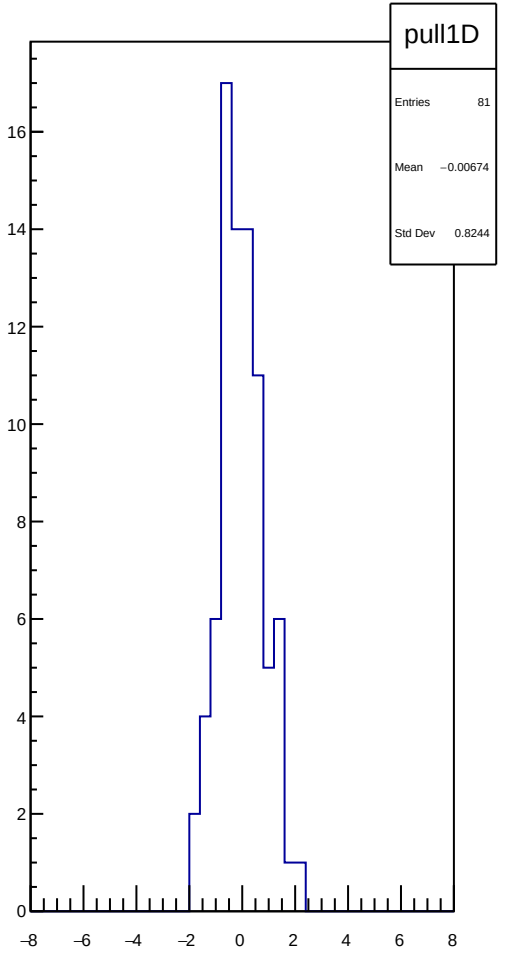

diff_bpm11X_rms vs run
χ² / ndf 2.348e+04 / 80
p0 1.033e+04 ± 8.386
13000
12000
11000
10000
9000
8000

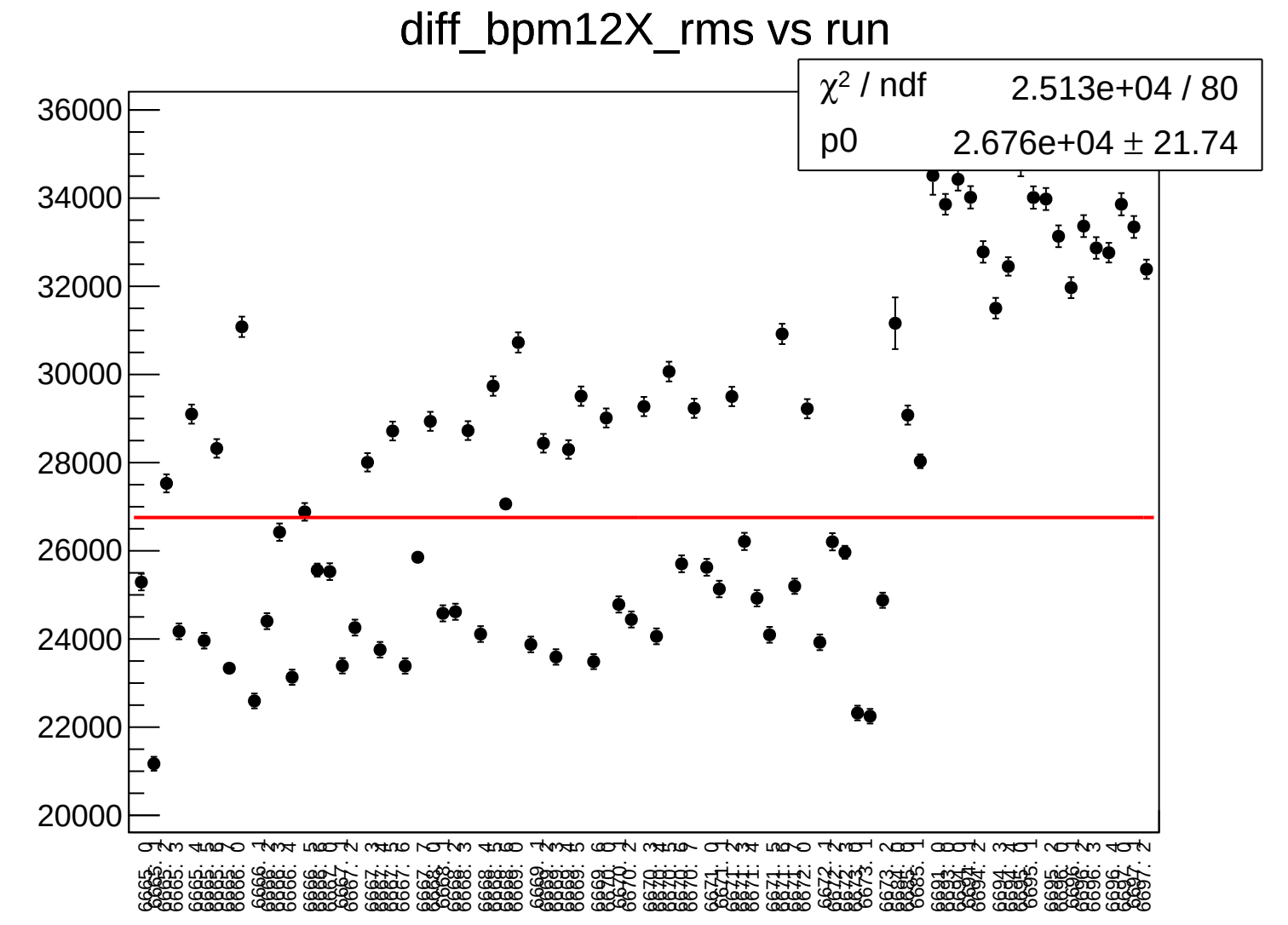

diff_bpm11Y_mean vs run
χ² / ndf 71.65 / 80
p0 −7.549 ± 5.354
200
100
0
−100
−200
−300
pull
Entries 81
Mean −9.204
Std Dev 57.65
2
1
0
−1
−2

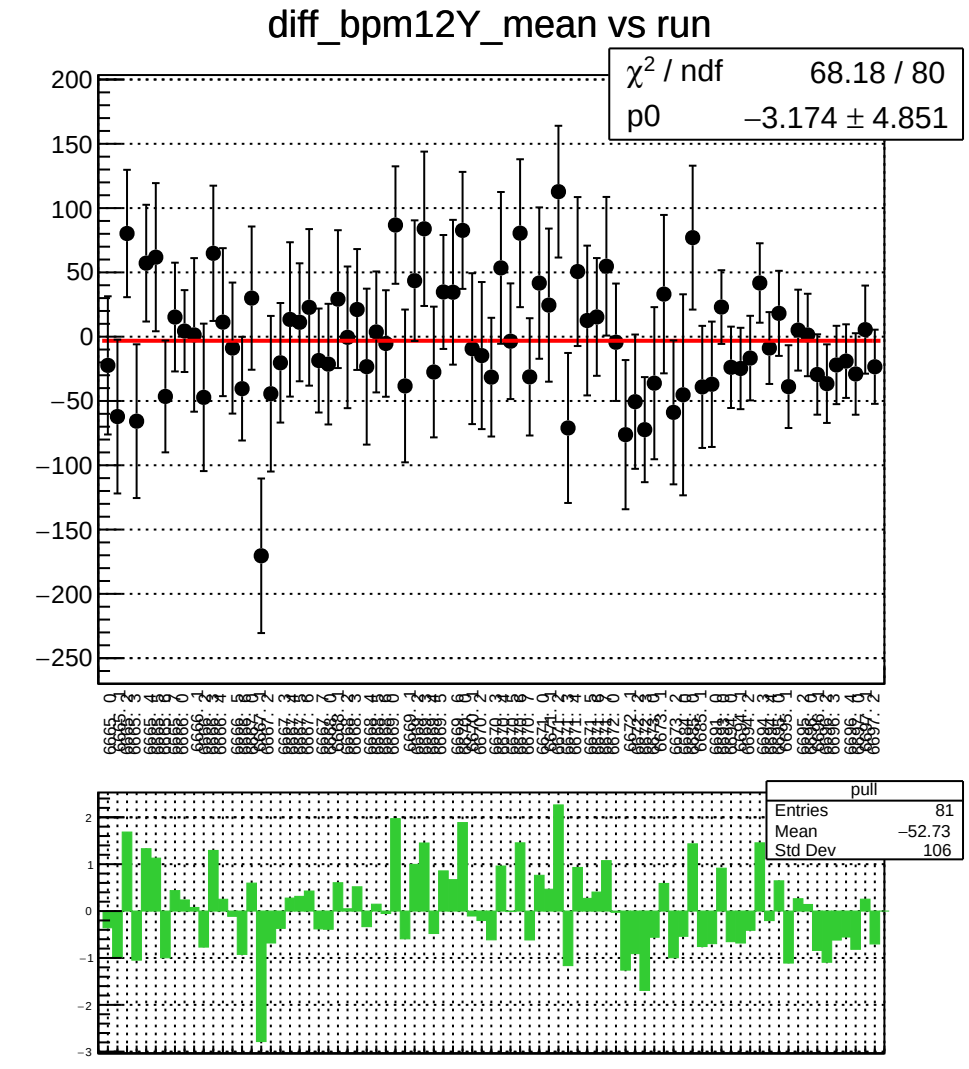

pull1D
Entries 81
Mean 0.04753
Std Dev 0.9393
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

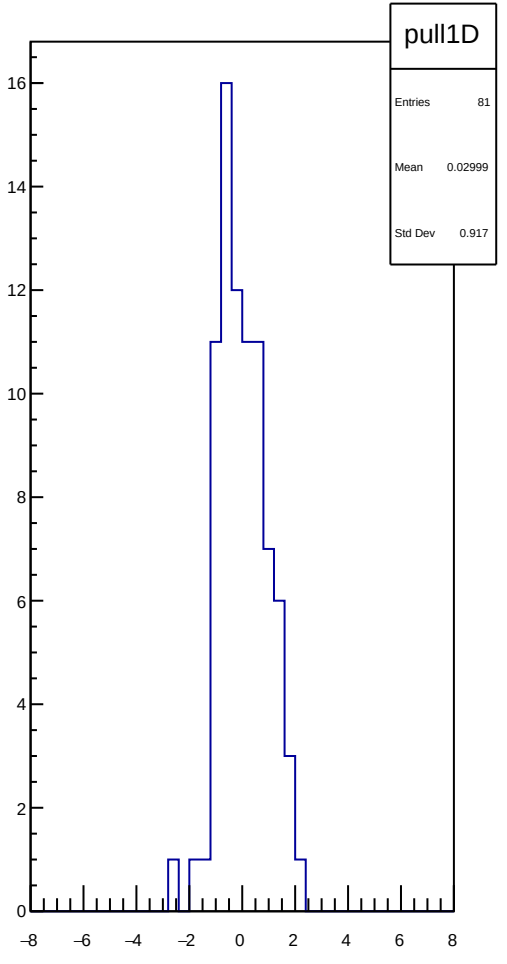

diff_bpm11Y_rms vs run
χ^2 / ndf 3.492e+05 / 80
p0 4131 ± 3.786
9000
8000
7000
6000
5000
4000
3000
2000

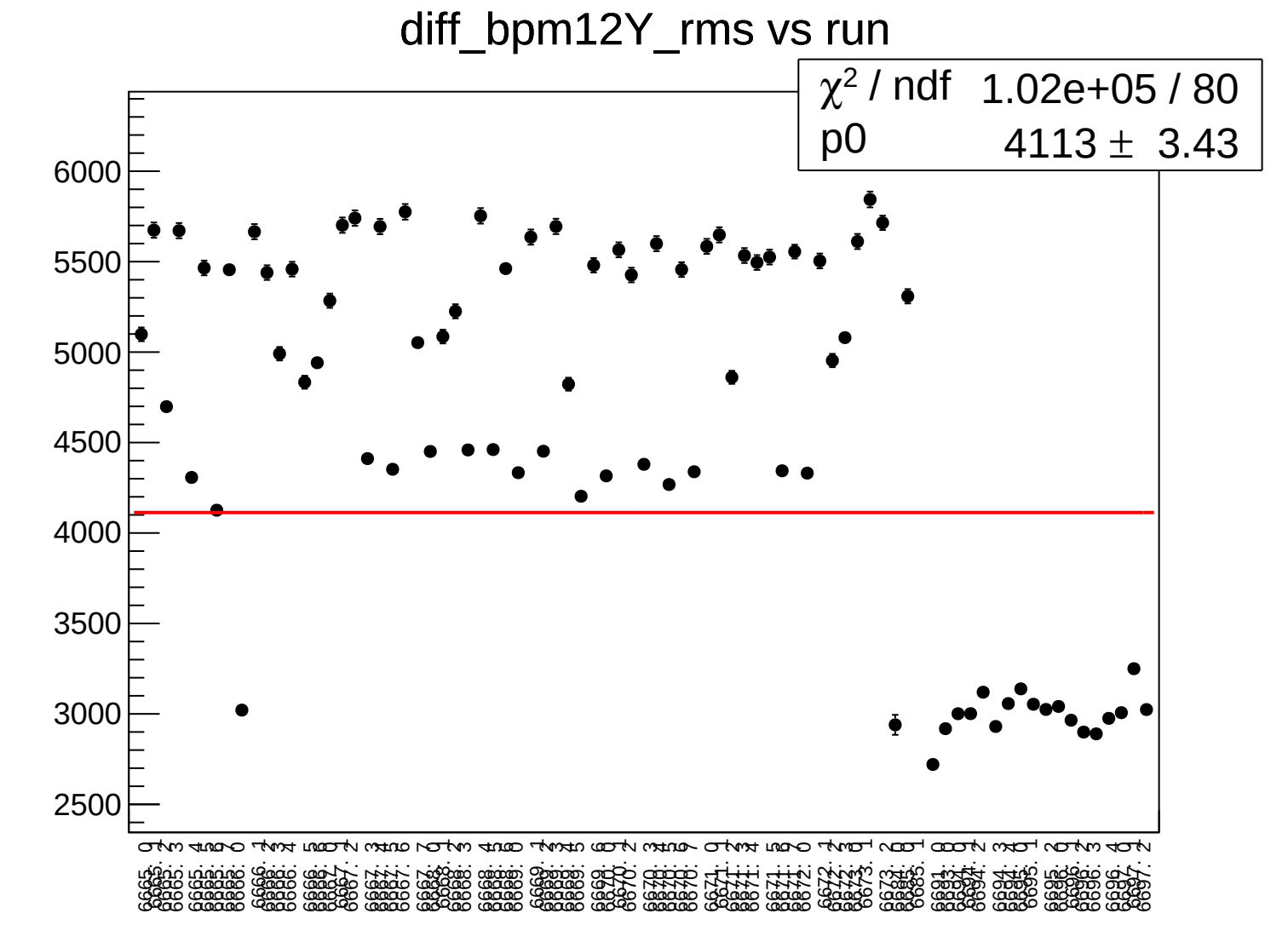

diff_bpm12X_mean vs run
χ² / ndf 55.05 / 80
p0 69.7 ± 30.74
pull
Entries 81
Mean 123.6
Std Dev 76.14

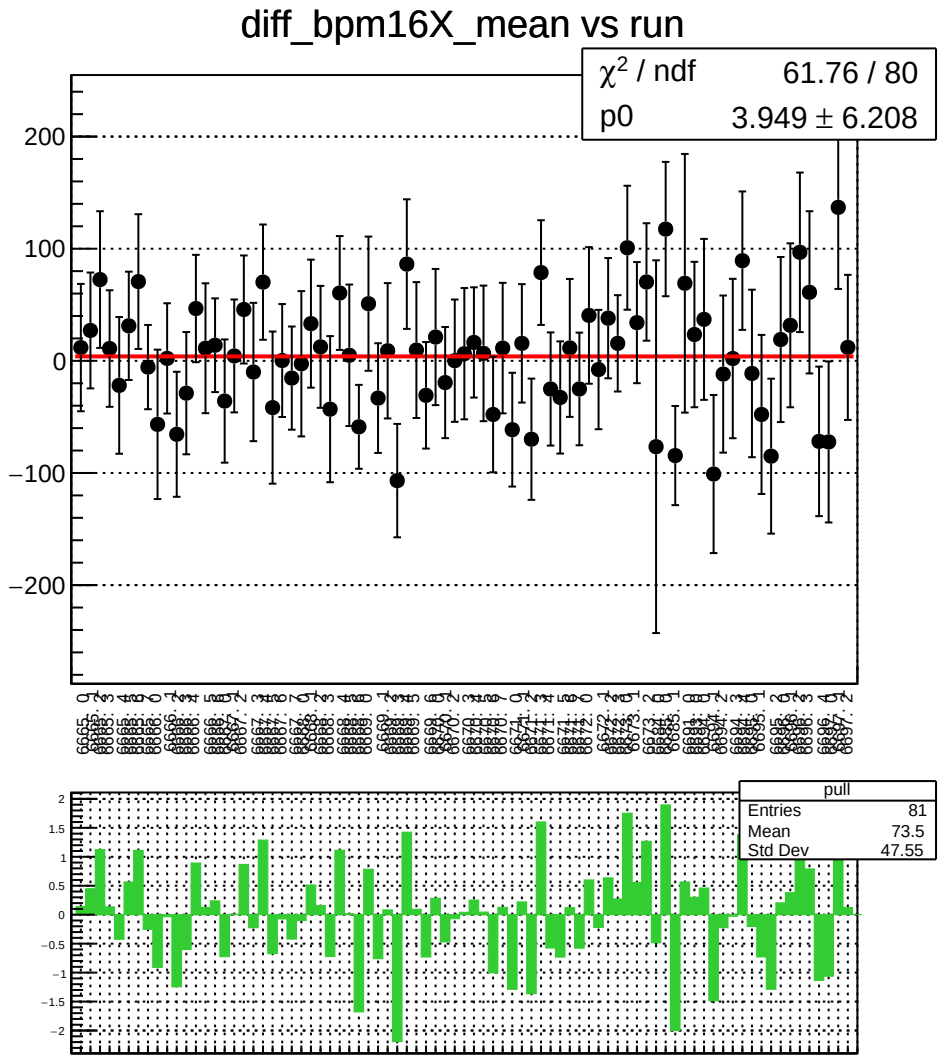

pull1D
Entries 81
Mean −0.00674
Std Dev 0.8244

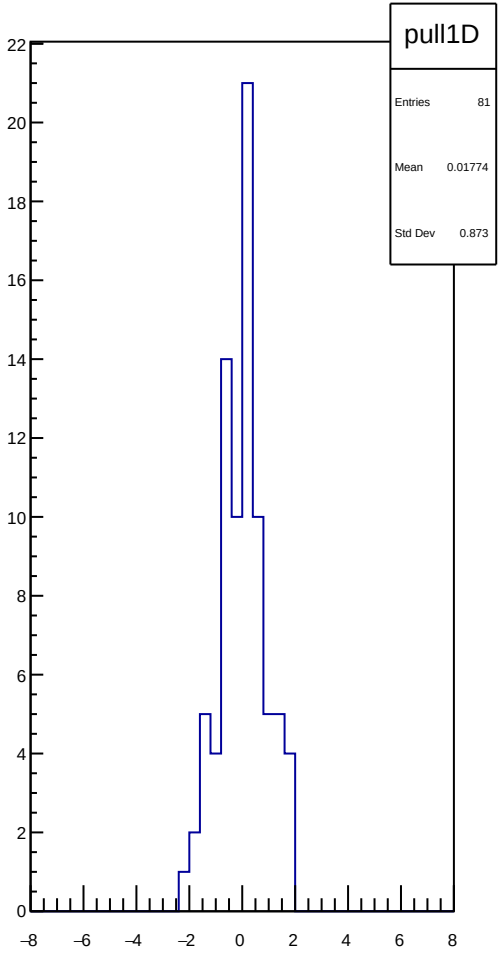

diff_bpm12X_rms vs run
χ² / ndf 2.513e+04 / 80
p0 2.676e+04 ± 21.74
36000
34000
32000
30000
28000
26000
24000
22000
20000

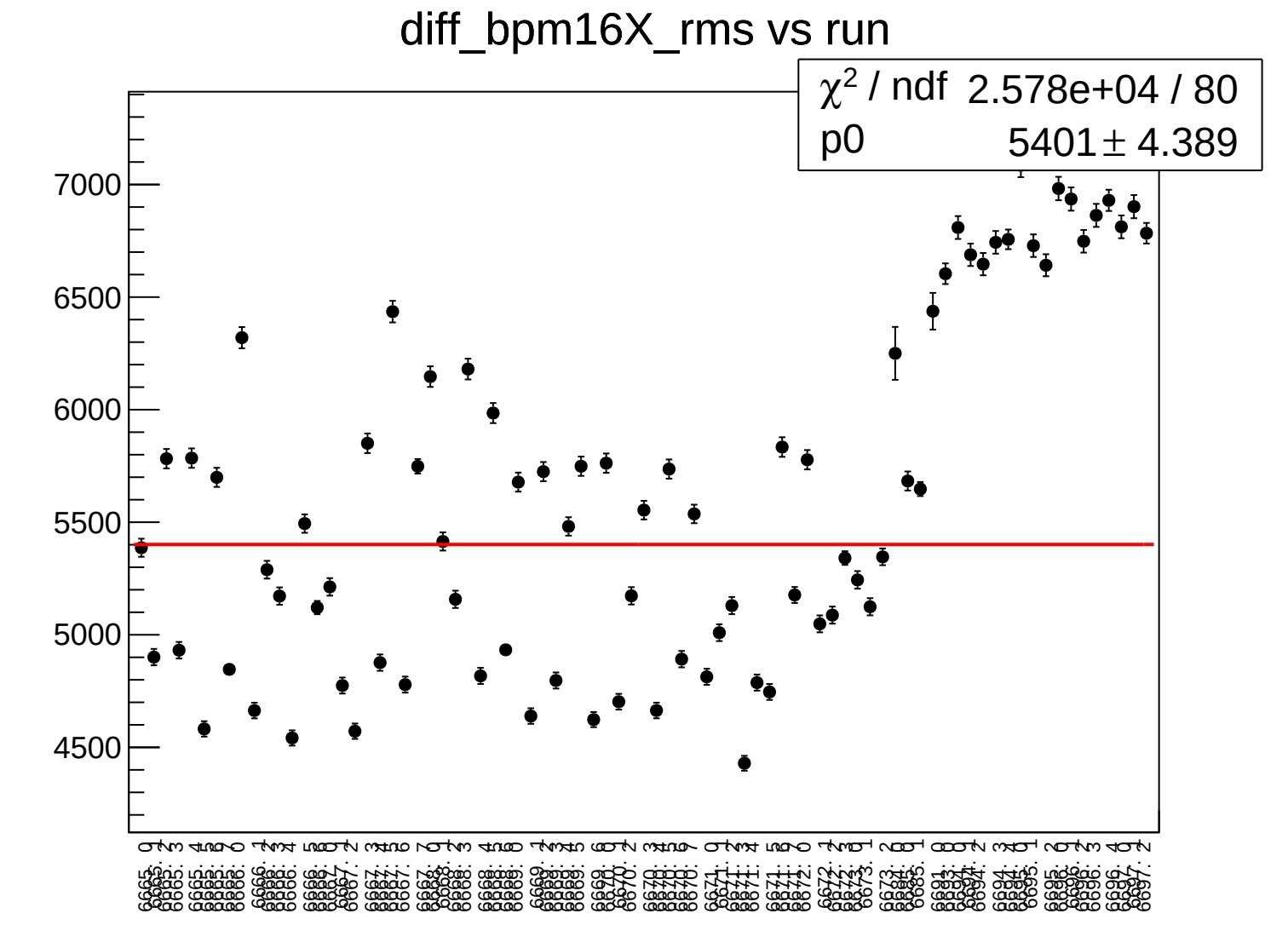

diff_bpm12Y_mean vs run
χ² / ndf 68.18 / 80
p0 −3.174 ± 4.851
pull
Entries 81
Mean −52.73
Std Dev 106

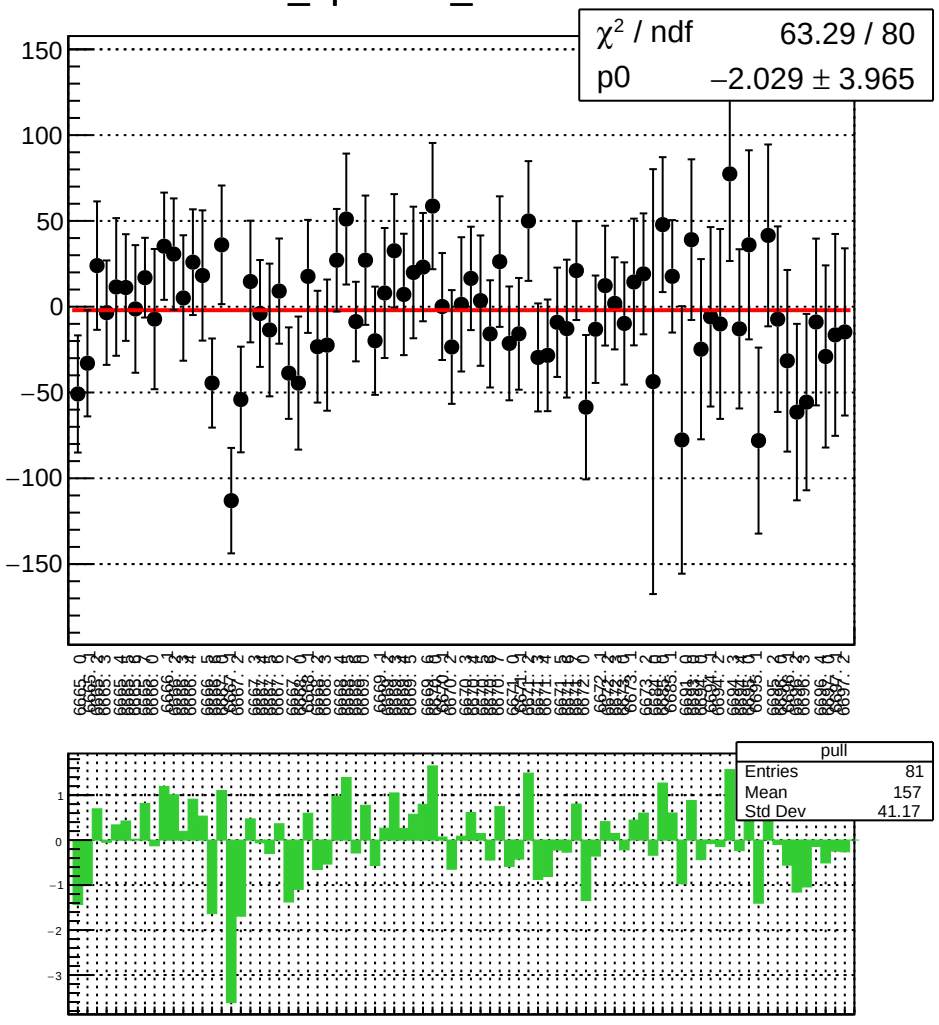

pull1D
Entries 81
Mean 0.02999
Std Dev 0.917

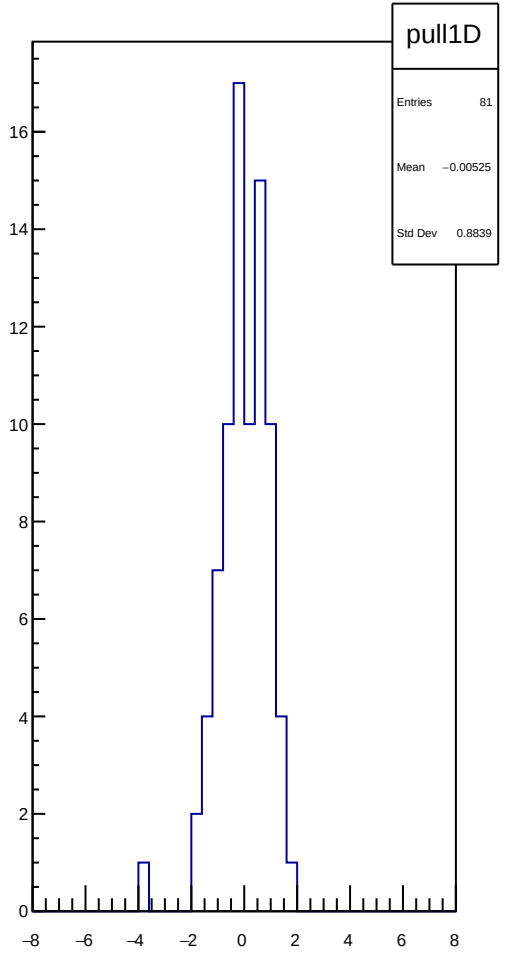

diff_bpm12Y_rms vs run
χ² / ndf 1.02e+05 / 80
p0 4113 ± 3.43
6000
5500
5000
4500
4000
3500
3000
2500

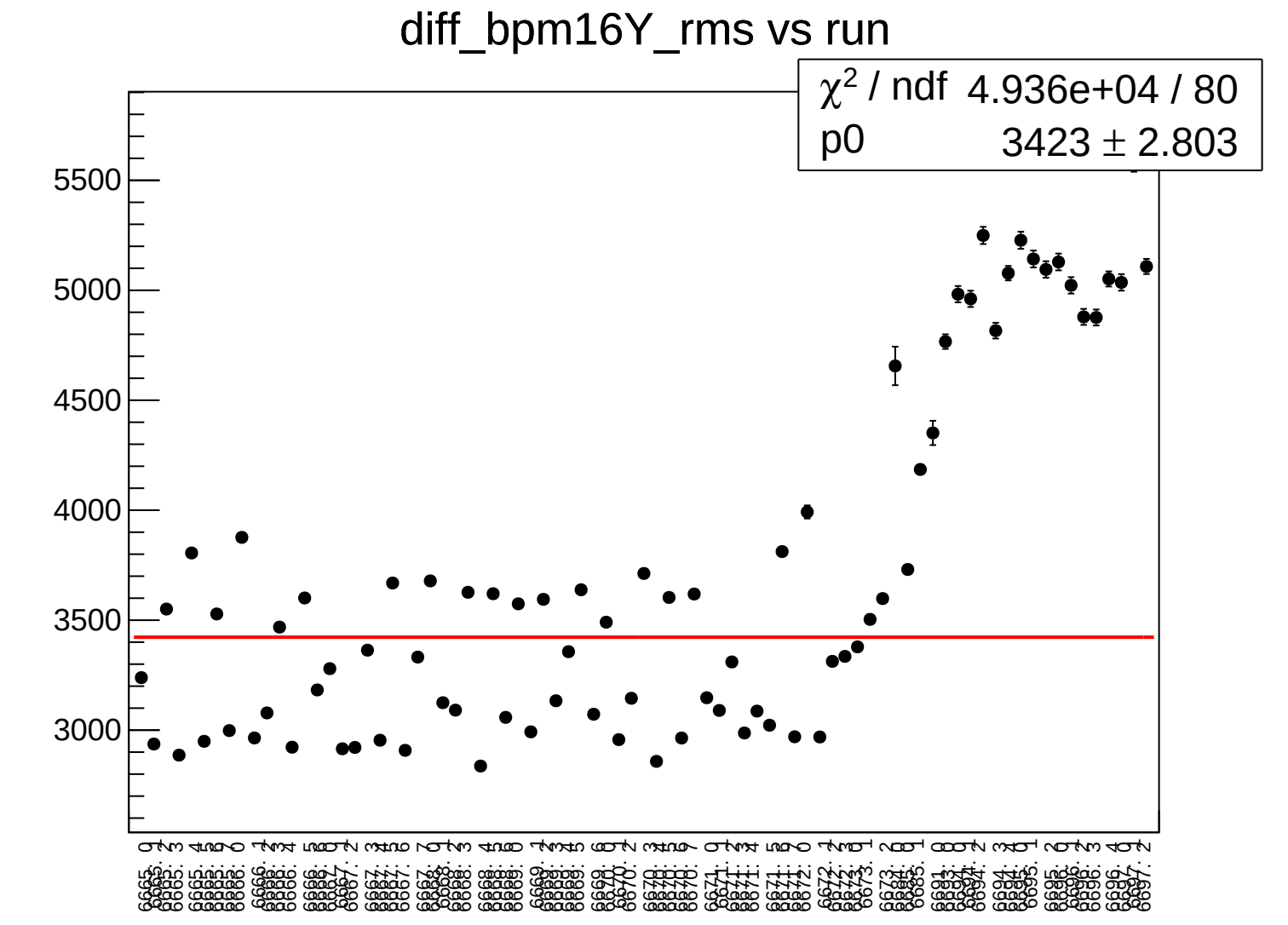

diff_bpm16X_mean vs run
χ² / ndf 61.76 / 80
p0 3.949 ± 6.208
200
100
0
−100
−200
pull
Entries 81
Mean 73.5
Std Dev 47.55
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

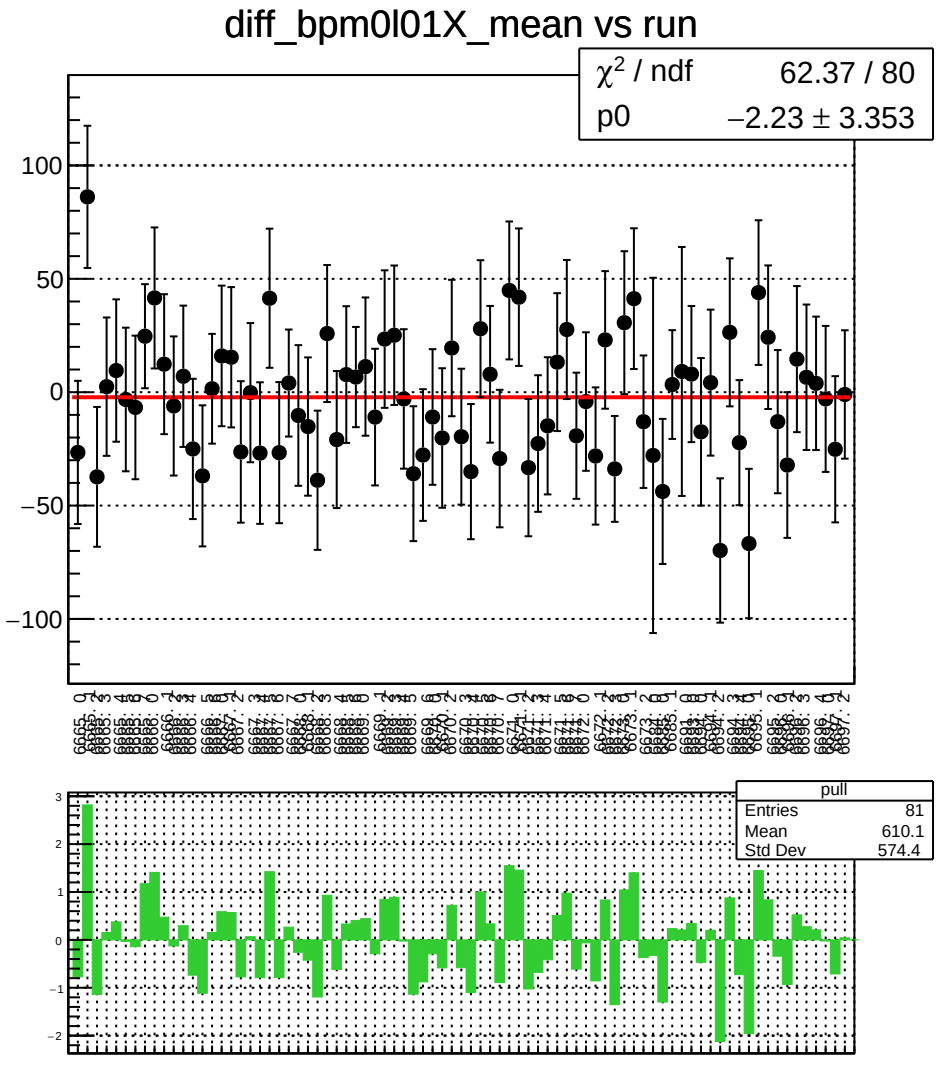

pull1D
Entries 81
Mean 0.01774
Std Dev 0.873
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

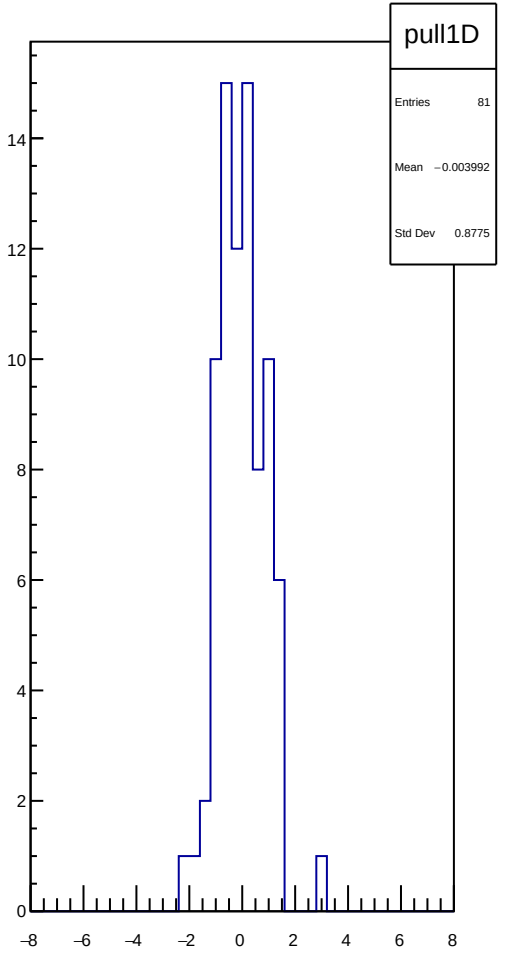

diff_bpm16X_rms vs run
χ² / ndf 2.578e+04 / 80
p0 5401 ± 4.389
7000
6500
6000
5500
5000
4500

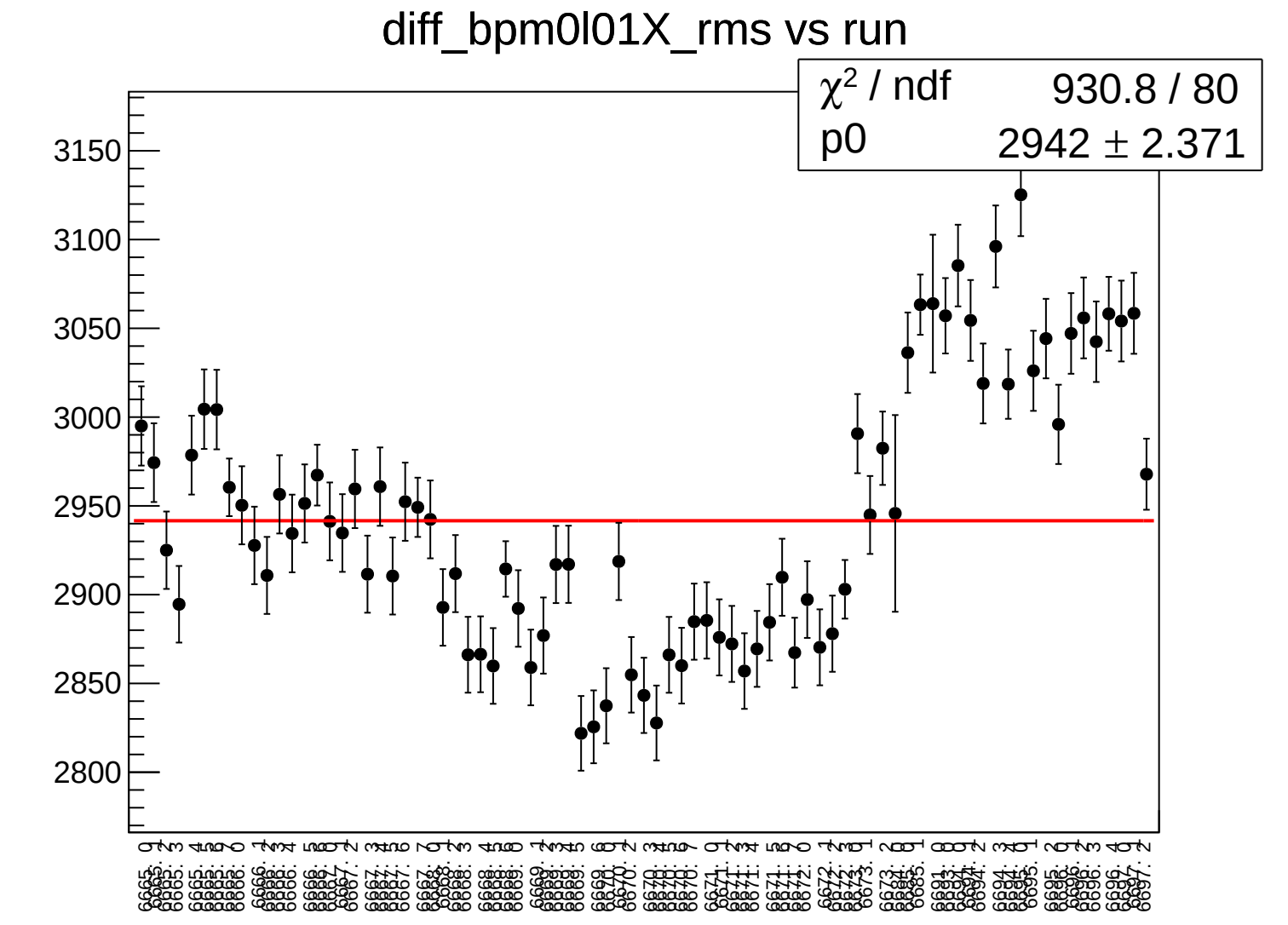

diff_bpm16Y_mean vs run
χ² / ndf 63.29 / 80
p0 −2.029 ± 3.965
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 157
Std Dev 41.17
1
0
−1
−2
−3

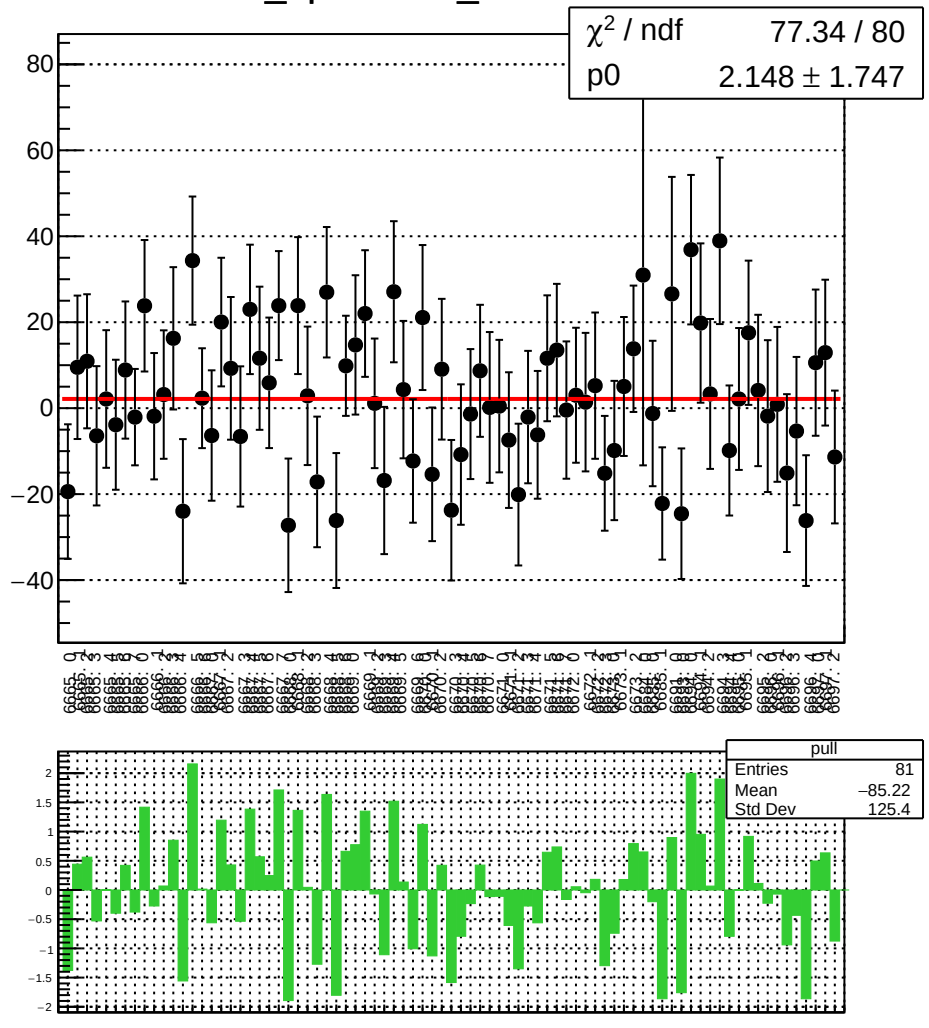

pull1D
Entries 81
Mean −0.00525
Std Dev 0.8839
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

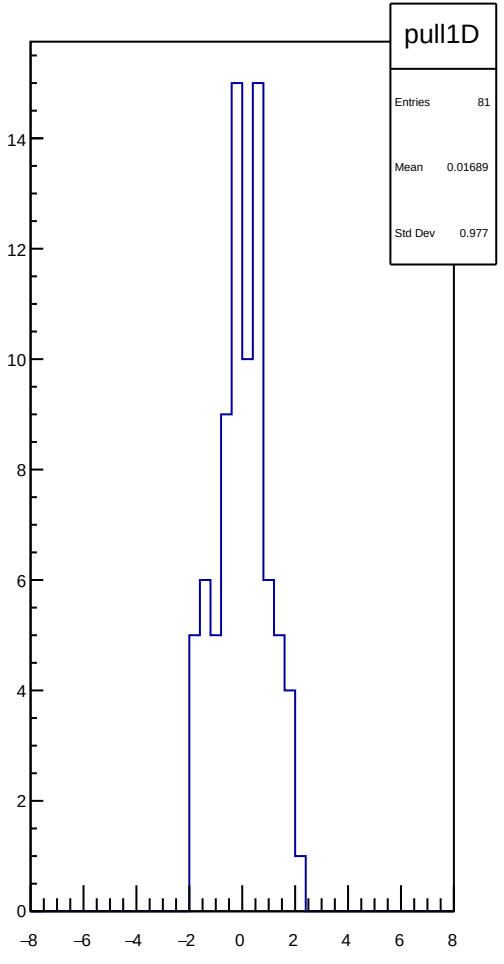

diff_bpm16Y_rms vs run
χ² / ndf 4.936e+04 / 80
p0 3423 ± 2.803
5500
5000
4500
4000
3500
3000

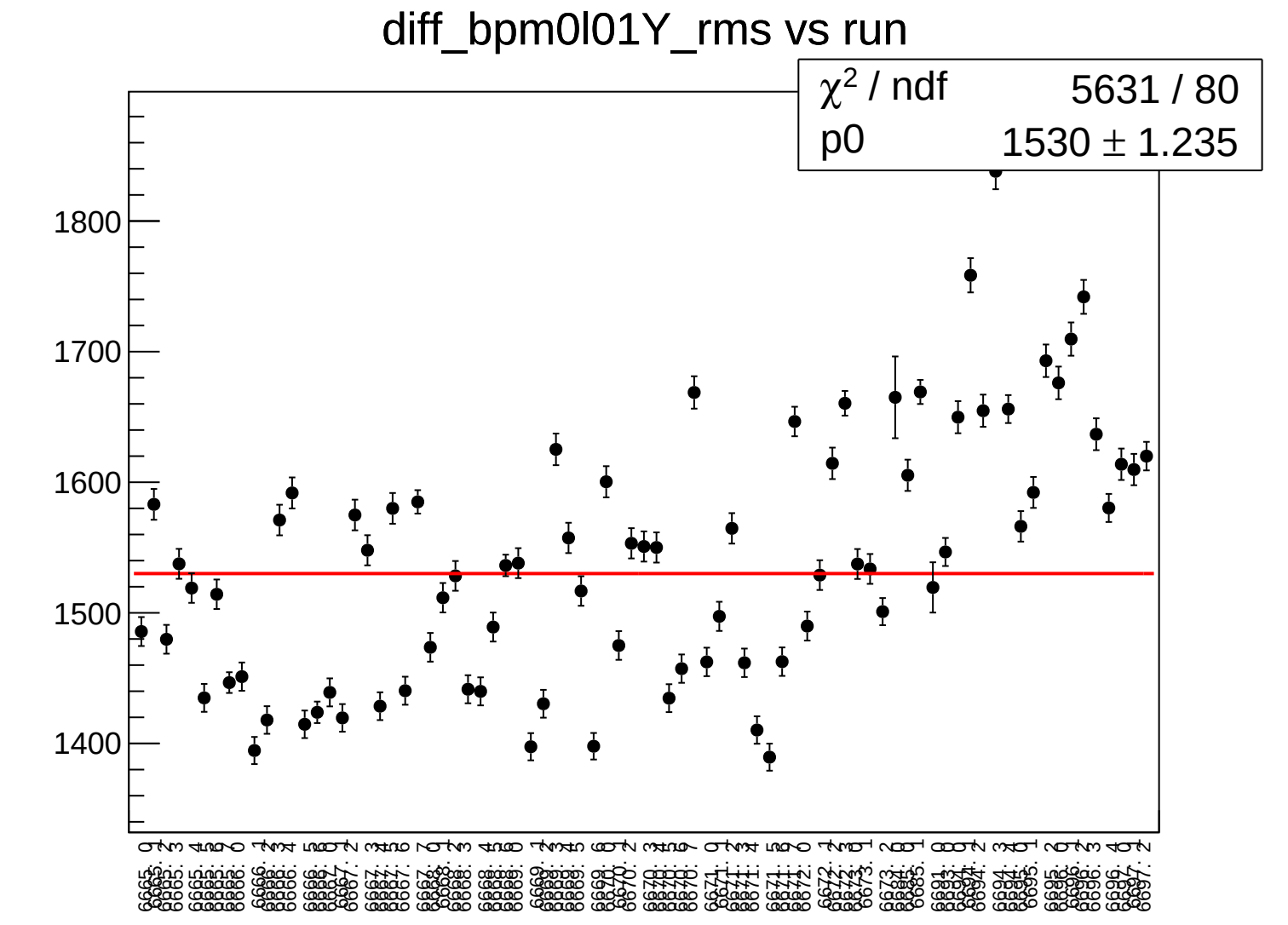

diff_bpm0l01X_mean vs run
χ² / ndf 62.37 / 80
p0 −2.23 ± 3.353
100
50
0
−50
−100
pull
Entries 81
Mean 610.1
Std Dev 574.4
3
2
1
0
−1
−2

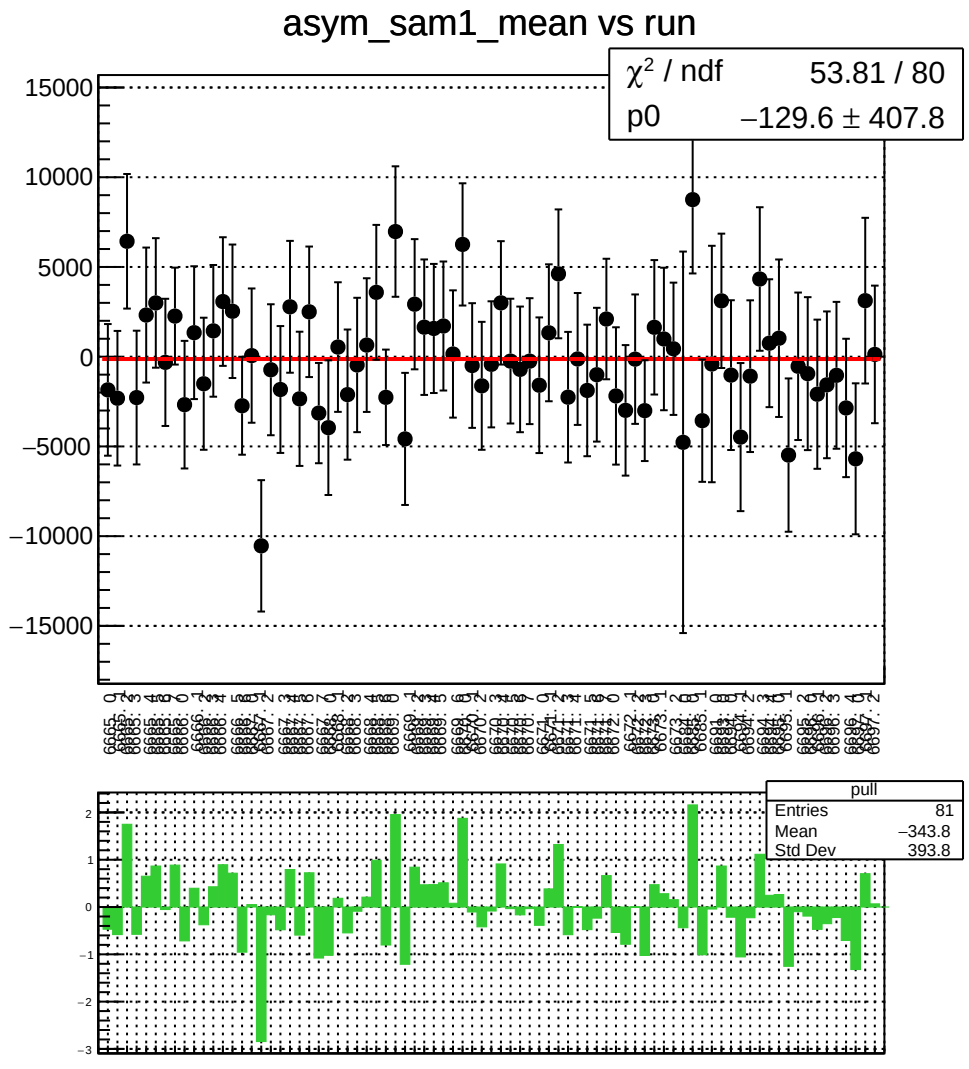

pull1D
Entries 81
Mean −0.003992
Std Dev 0.8775
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

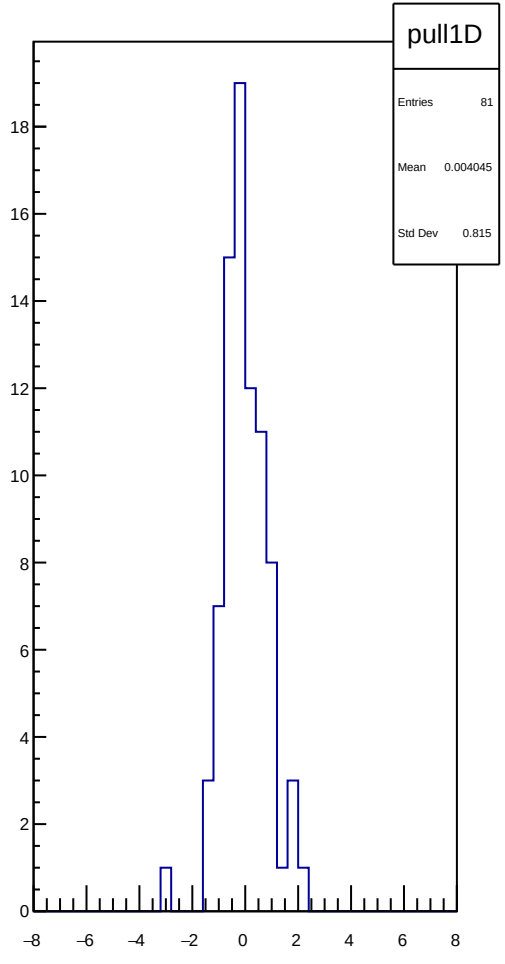

diff_bpm0l01X_rms vs run
χ² / ndf 930.8 / 80
p0 2942 ± 2.371
3150
3100
3050
3000
2950
2900
2850
2800

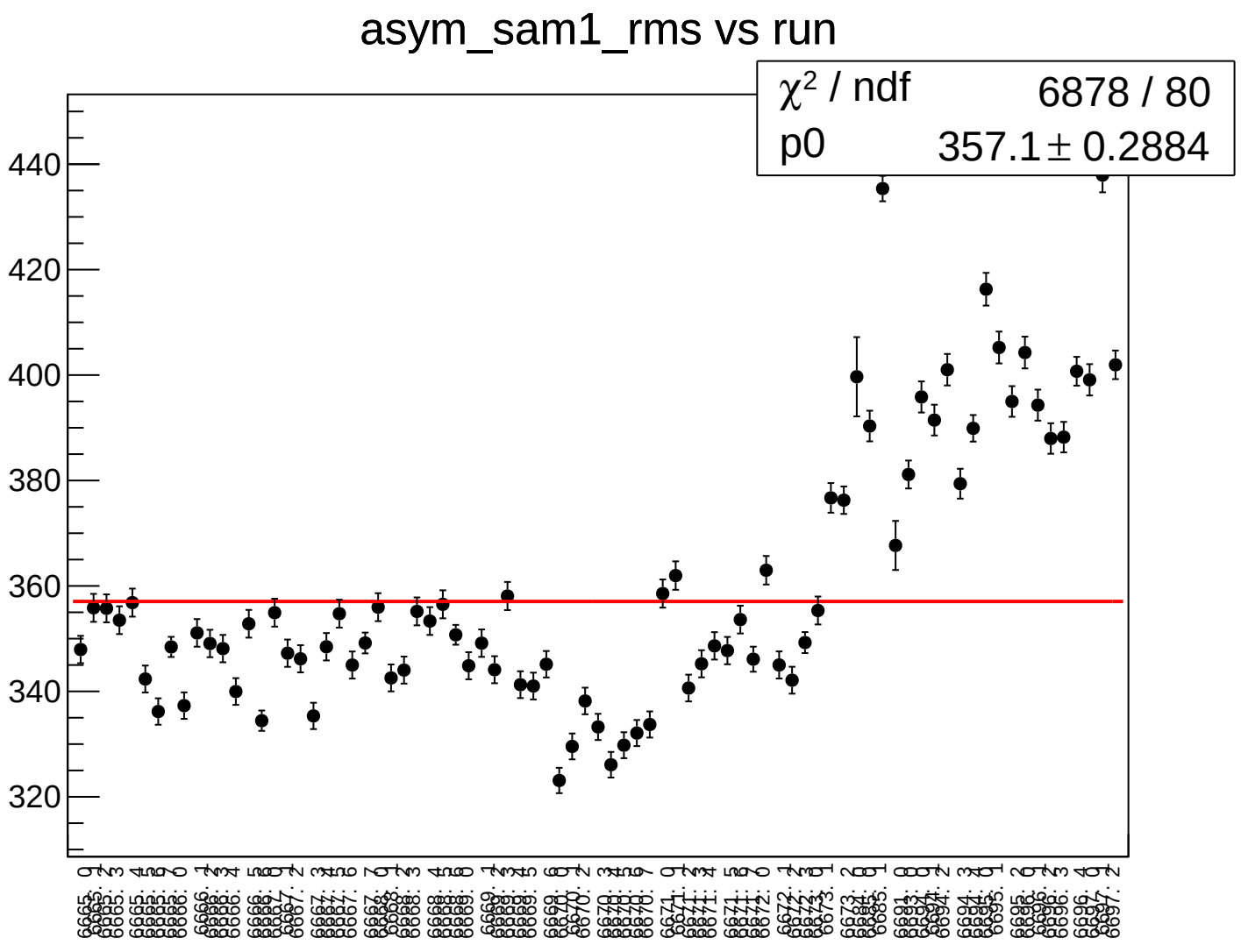

diff_bpm0l01Y_mean vs run
χ² / ndf 77.34 / 80
p0 2.148 ± 1.747
pull
Entries 81
Mean −85.22
Std Dev 125.4

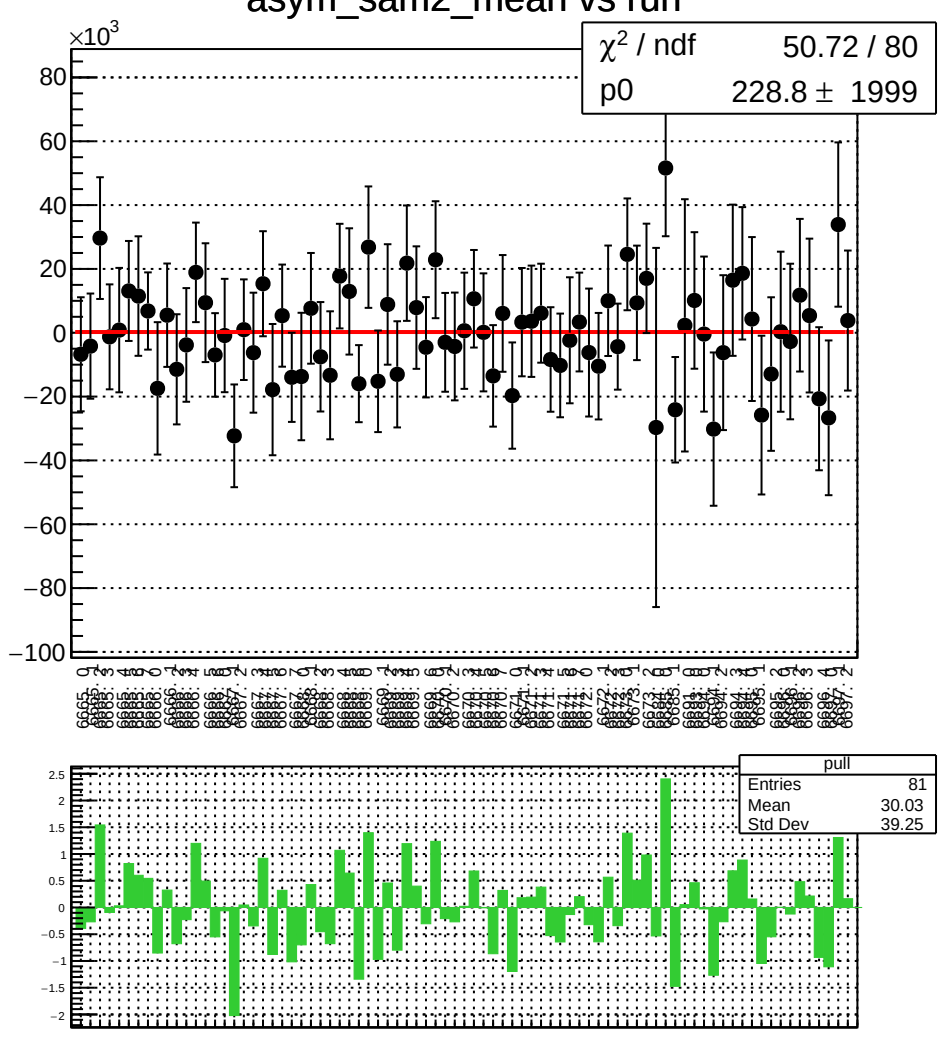

pull1D
Entries 81
Mean 0.01689
Std Dev 0.977

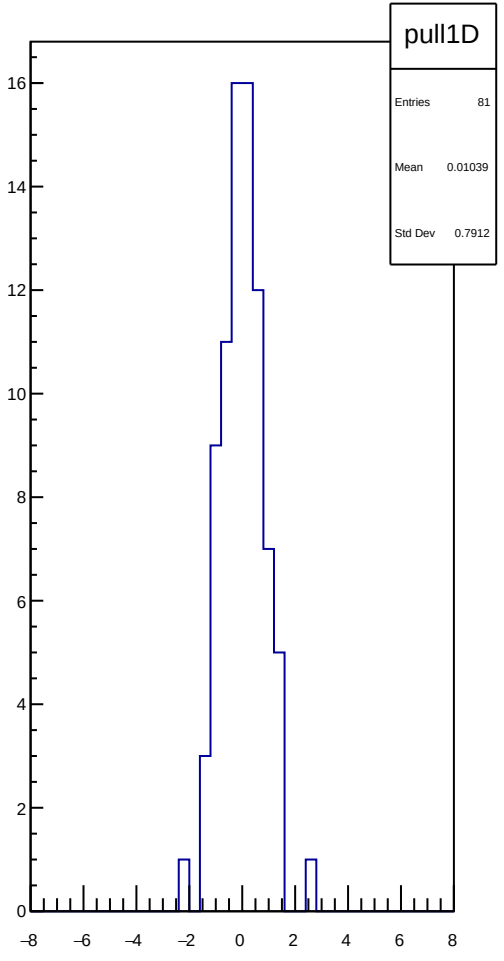

diff_bpm0l01Y_rms vs run
χ² / ndf 5631 / 80
p0 1530 ± 1.235
1800
1700
1600
1500
1400

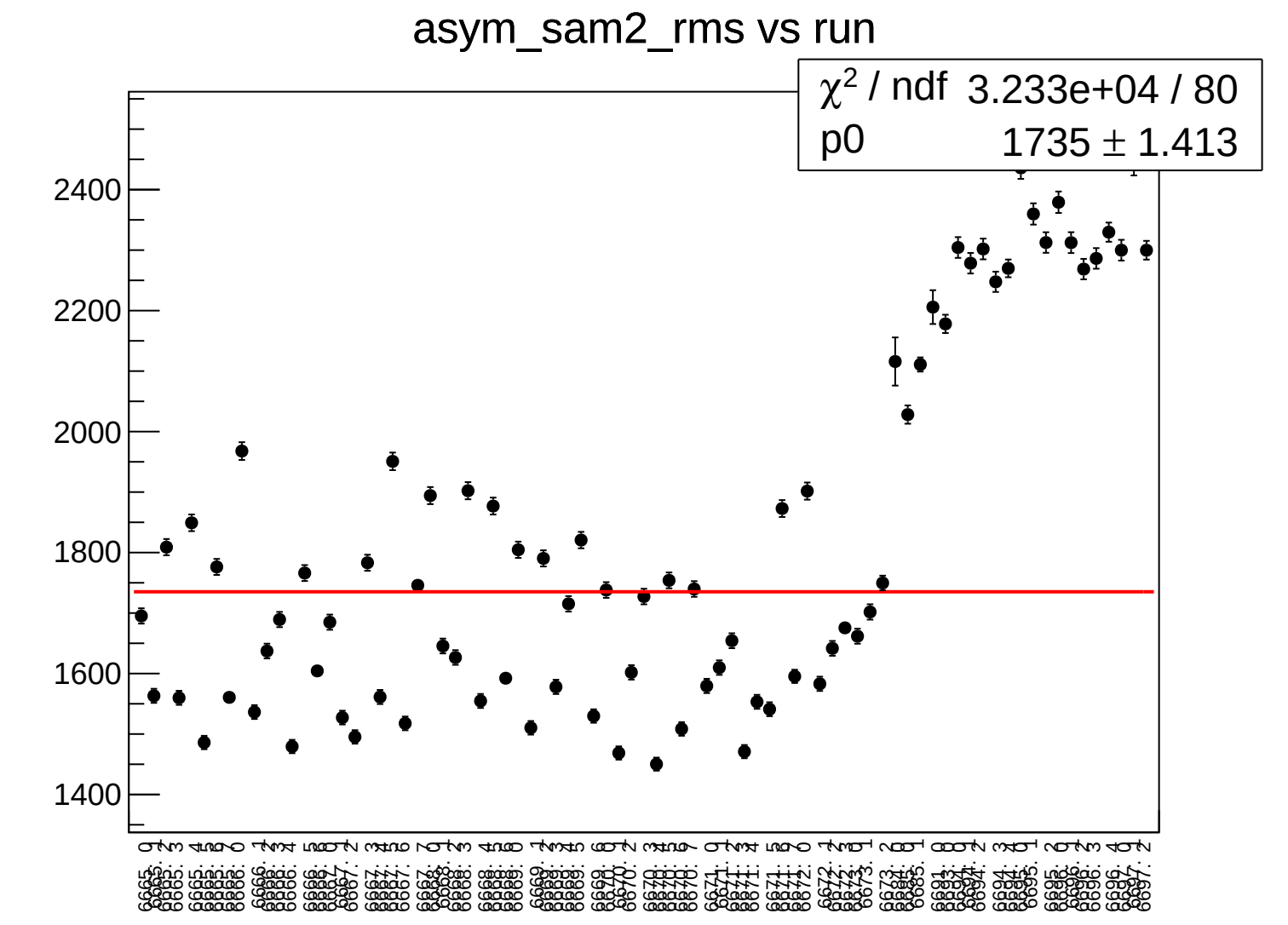

asym_sam1_mean vs run
χ² / ndf 53.81 / 80
p0 −129.6 ± 407.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −343.8
Std Dev 393.8
2
1
0
−1
−2
−3

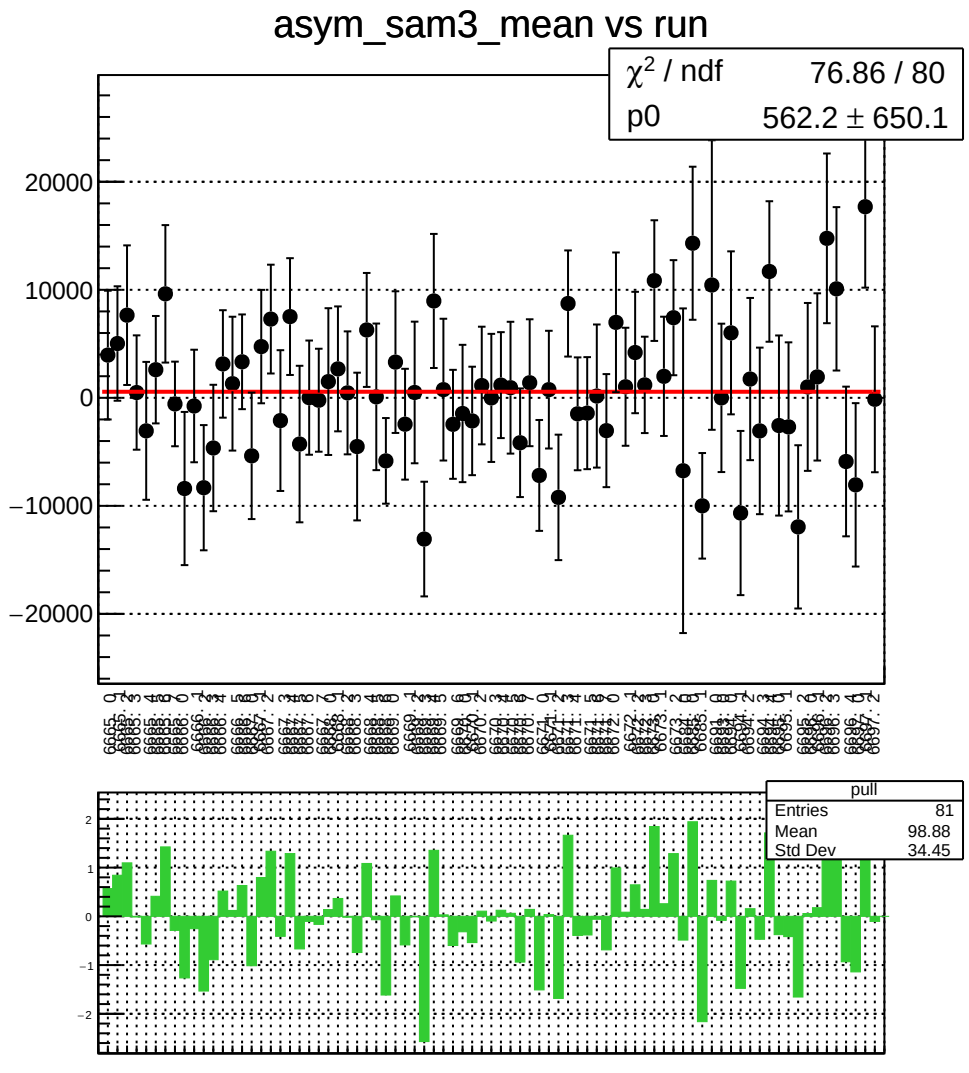

pull1D
Entries 81
Mean 0.004045
Std Dev 0.815
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

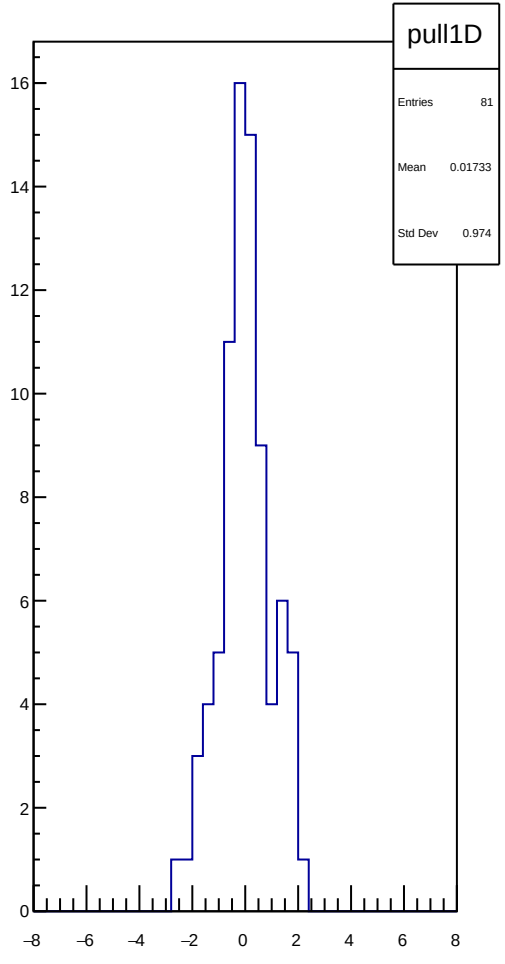

asym_sam1_rms vs run
χ² / ndf 6878 / 80
p0 357.1 ± 0.2884
440
420
400
380
360
340
320

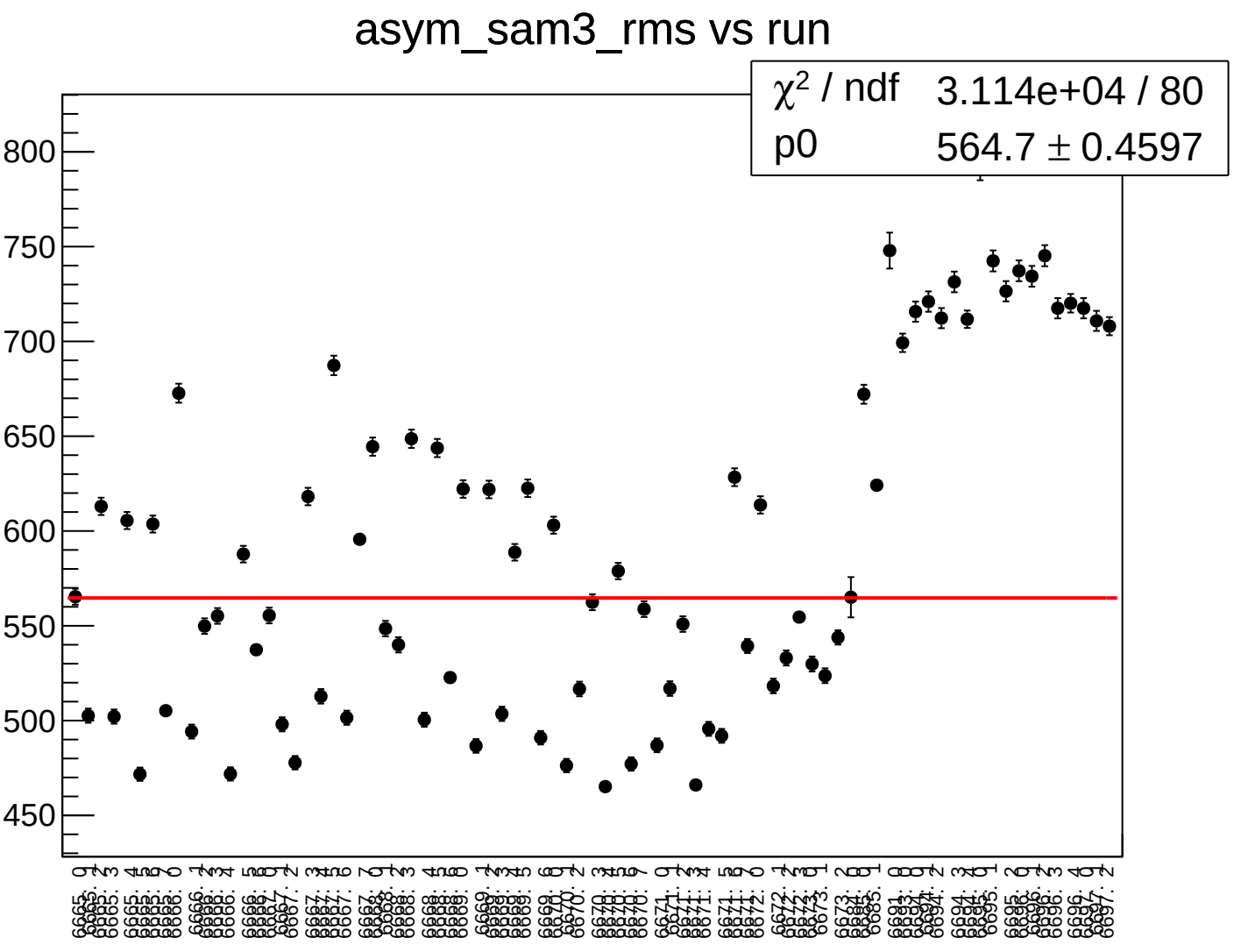

asym_sam2_mean vs run
×10^3
χ² / ndf 50.72 / 80
p0 228.8 ± 1999
pull
Entries 81
Mean 30.03
Std Dev 39.25

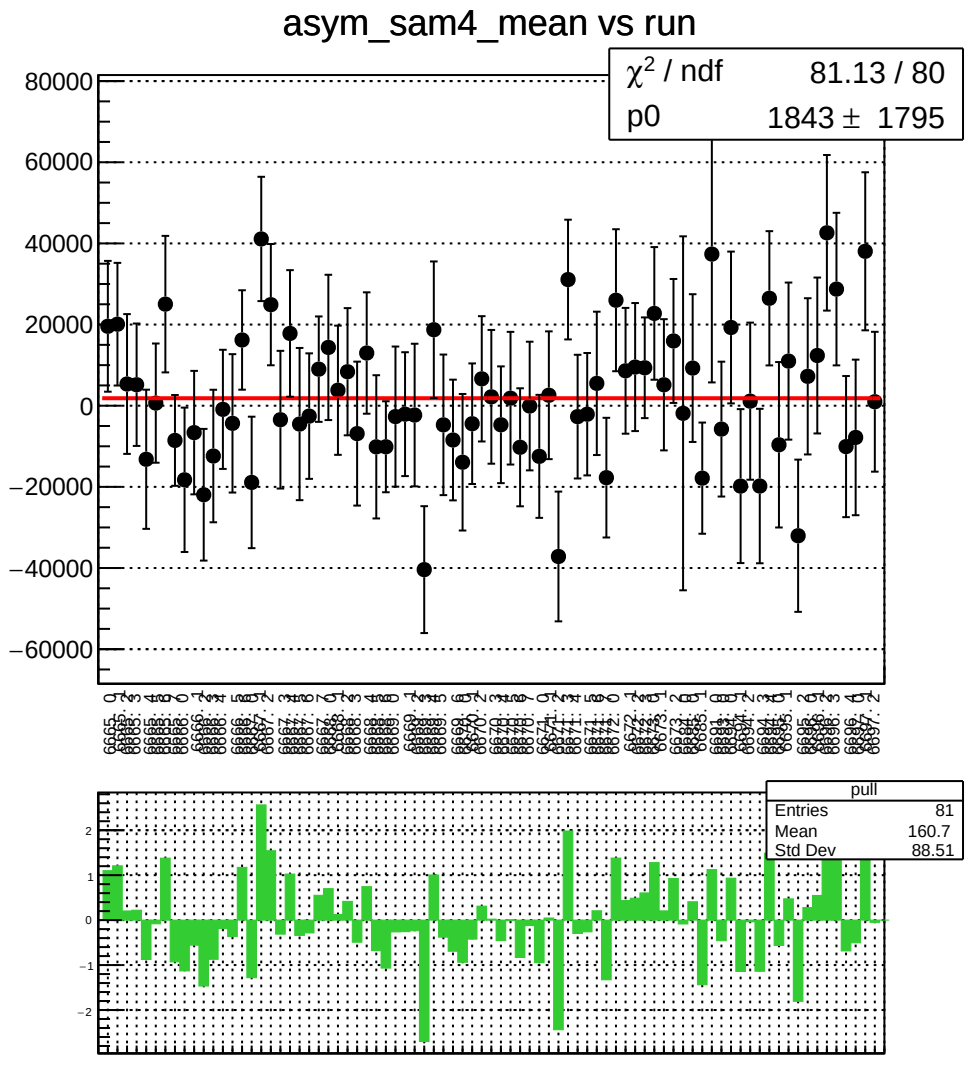

pull1D
Entries 81
Mean 0.01039
Std Dev 0.7912

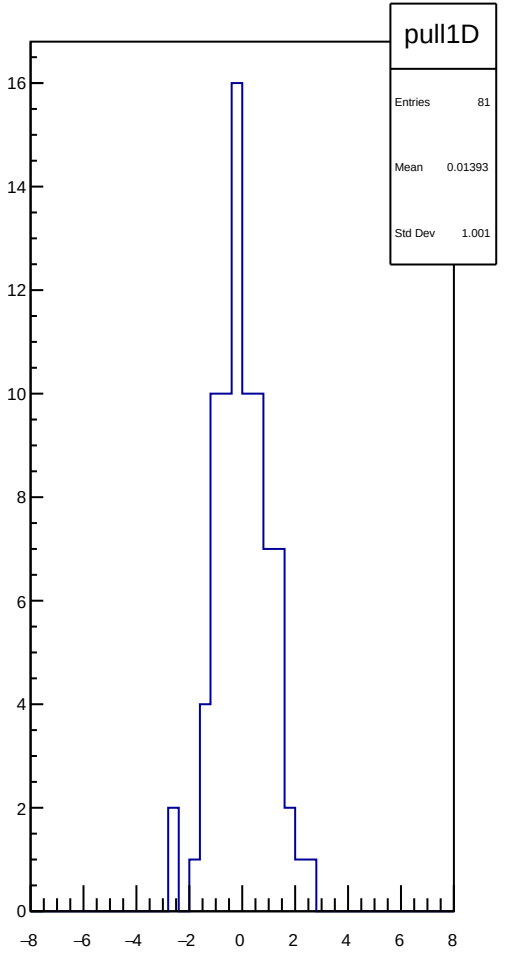

asym_sam2_rms vs run
χ² / ndf 3.233e+04 / 80
p0 1735 ± 1.413
2400
2200
2000
1800
1600
1400

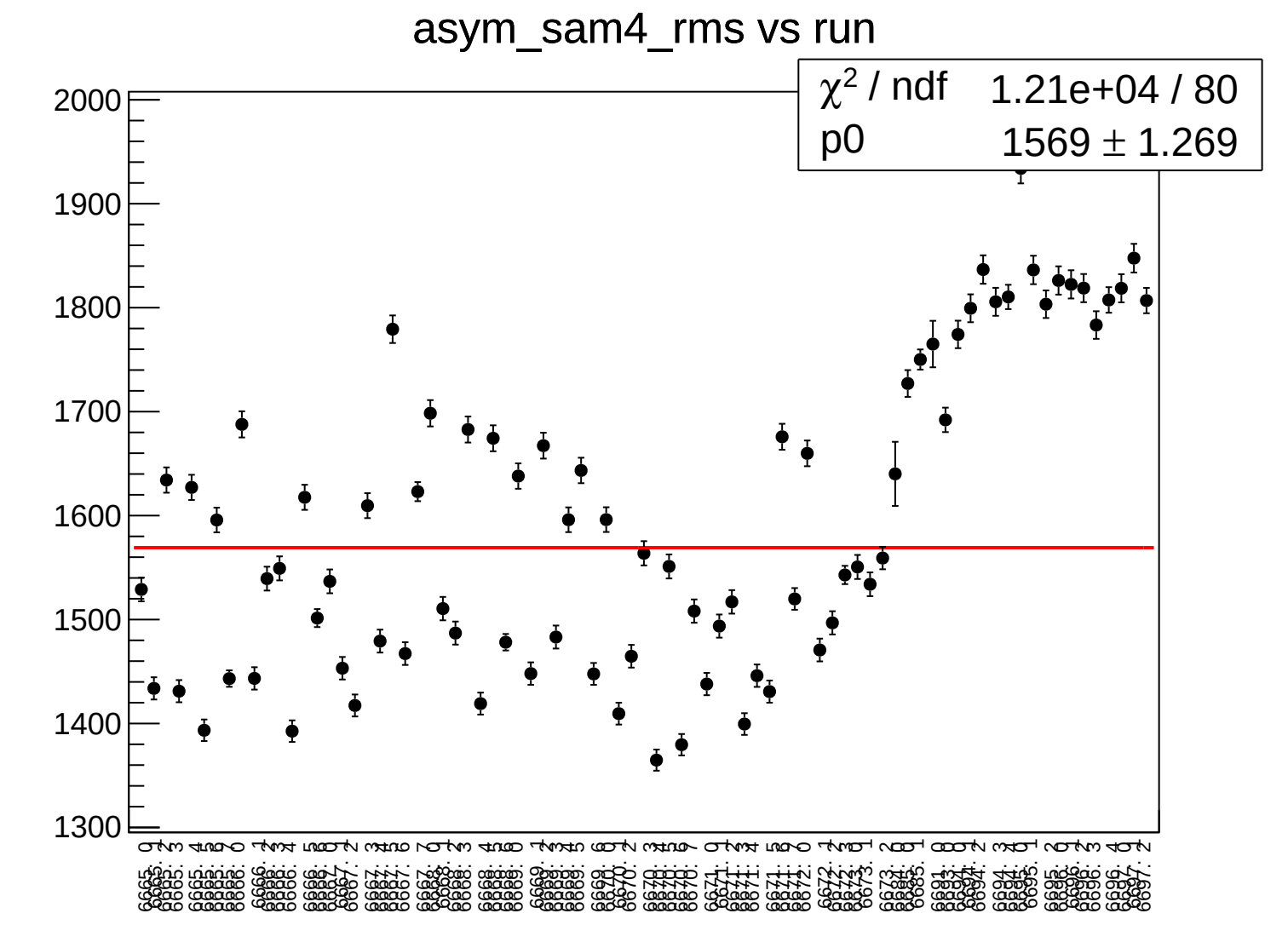

asym_sam3_mean vs run
χ² / ndf 76.86 / 80
p0 562.2 ± 650.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 98.88
Std Dev 34.45
2
1
0
−1
−2

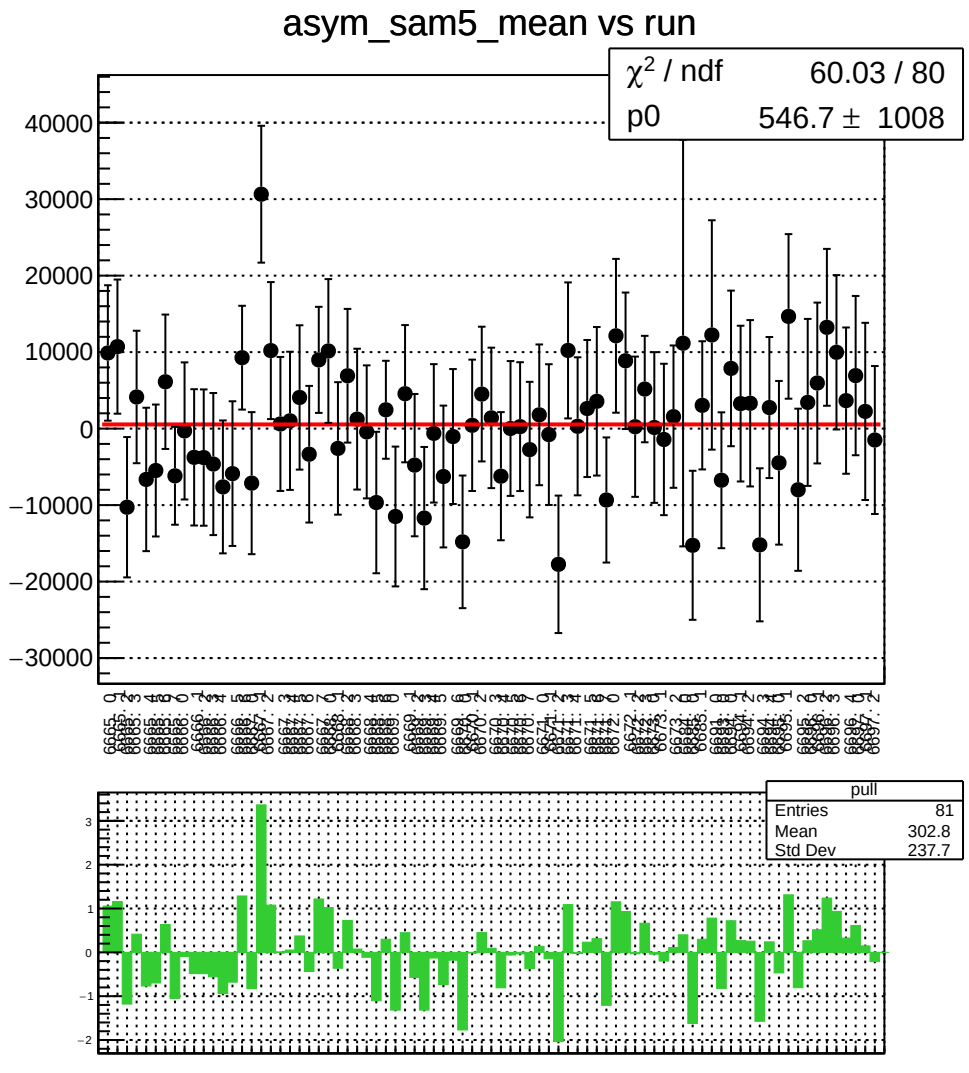

pull1D
Entries 81
Mean 0.01733
Std Dev 0.974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

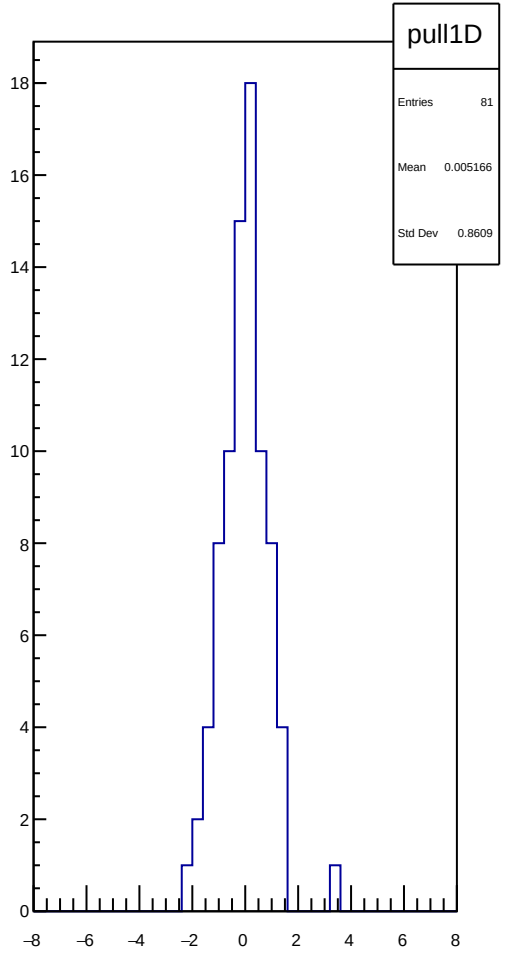

asym_sam3_rms vs run
χ² / ndf 3.114e+04 / 80
p0 564.7 ± 0.4597
800
750
700
650
600
550
500
450

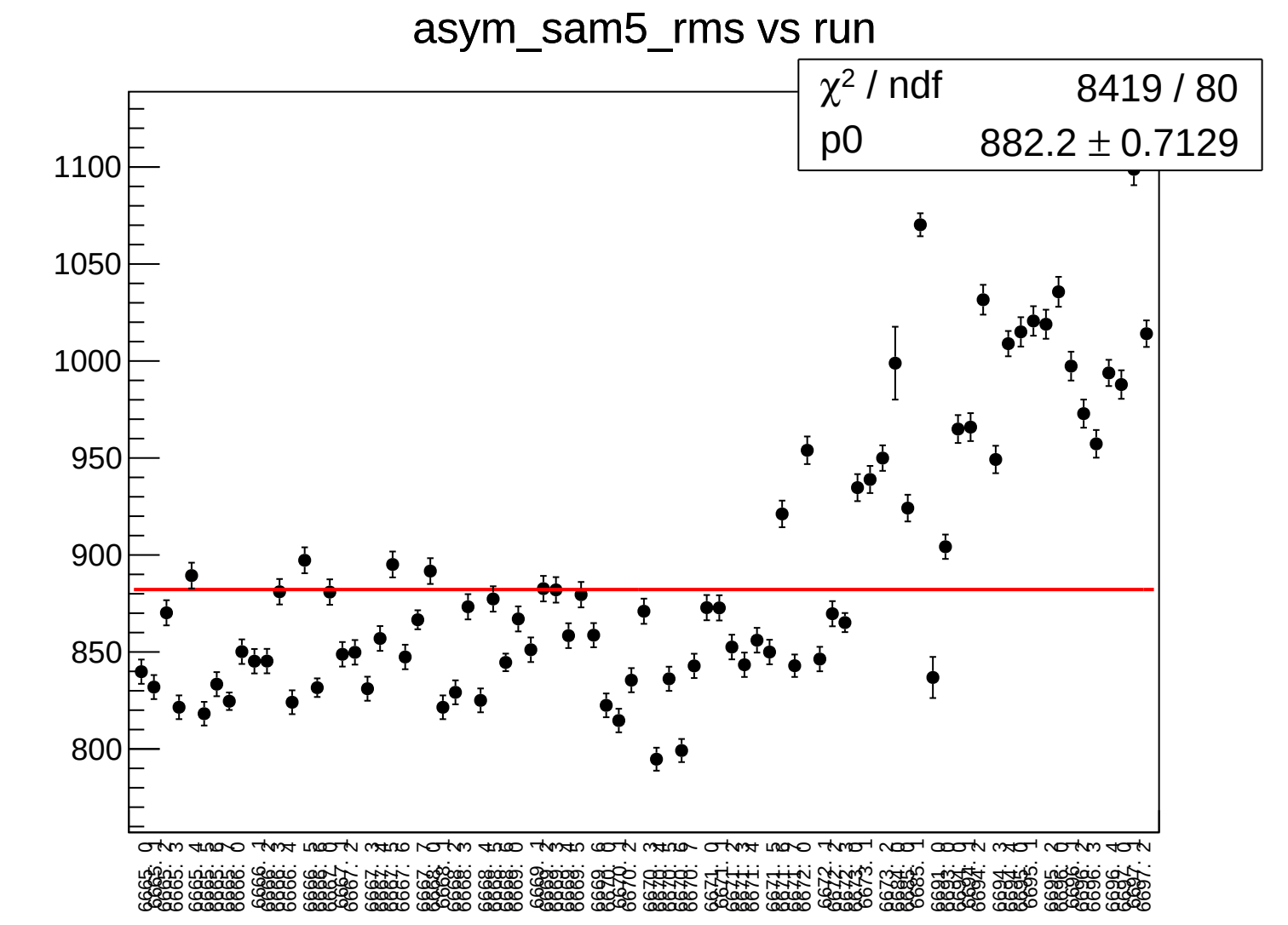

asym_sam4_mean vs run
χ² / ndf 81.13 / 80
p0 1843 ± 1795
pull
Entries 81
Mean 160.7
Std Dev 88.51

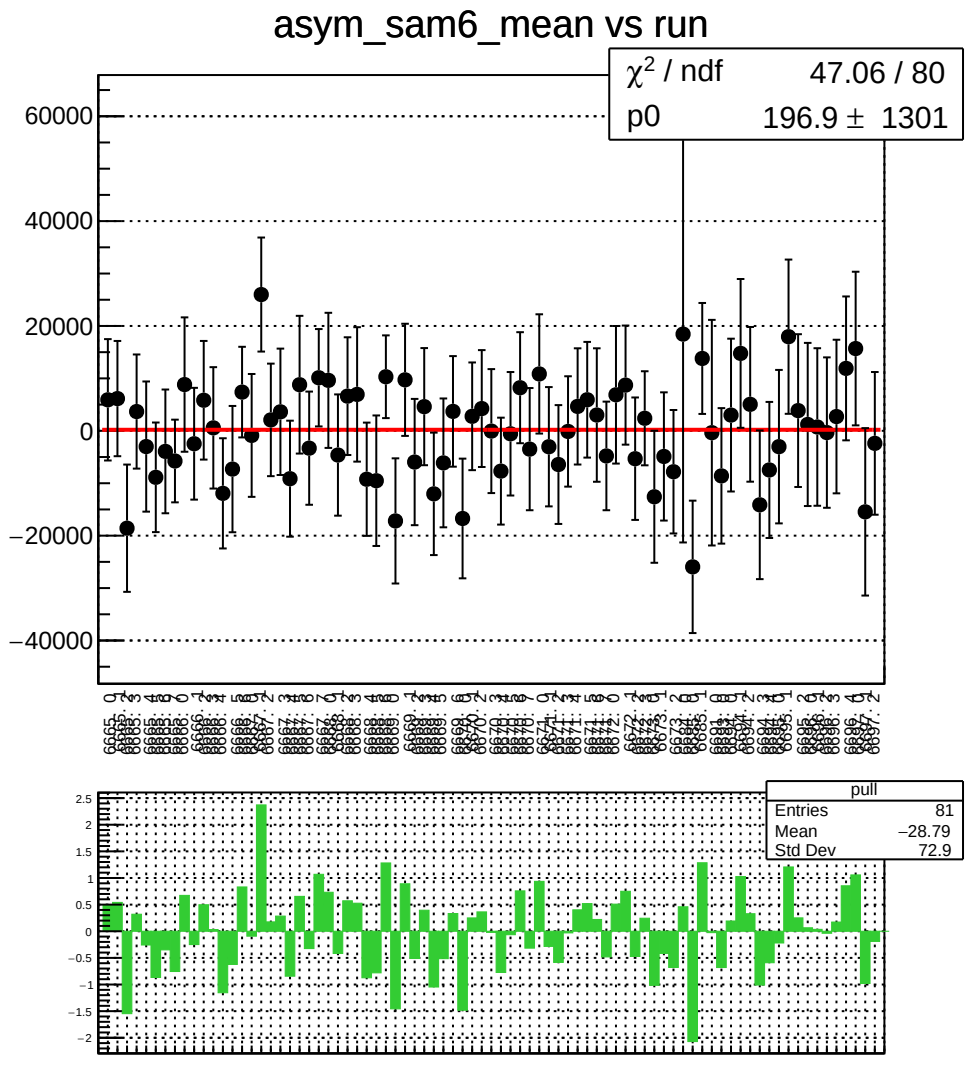

pull1D
Entries 81
Mean 0.01393
Std Dev 1.001

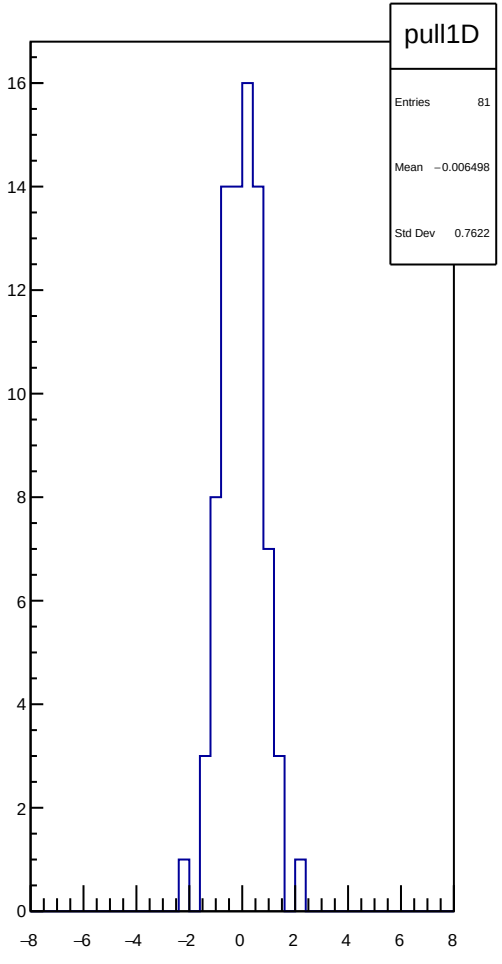

asym_sam4_rms vs run
χ² / ndf 1.21e+04 / 80
p0 1569 ± 1.269
2000
1900
1800
1700
1600
1500
1400
1300

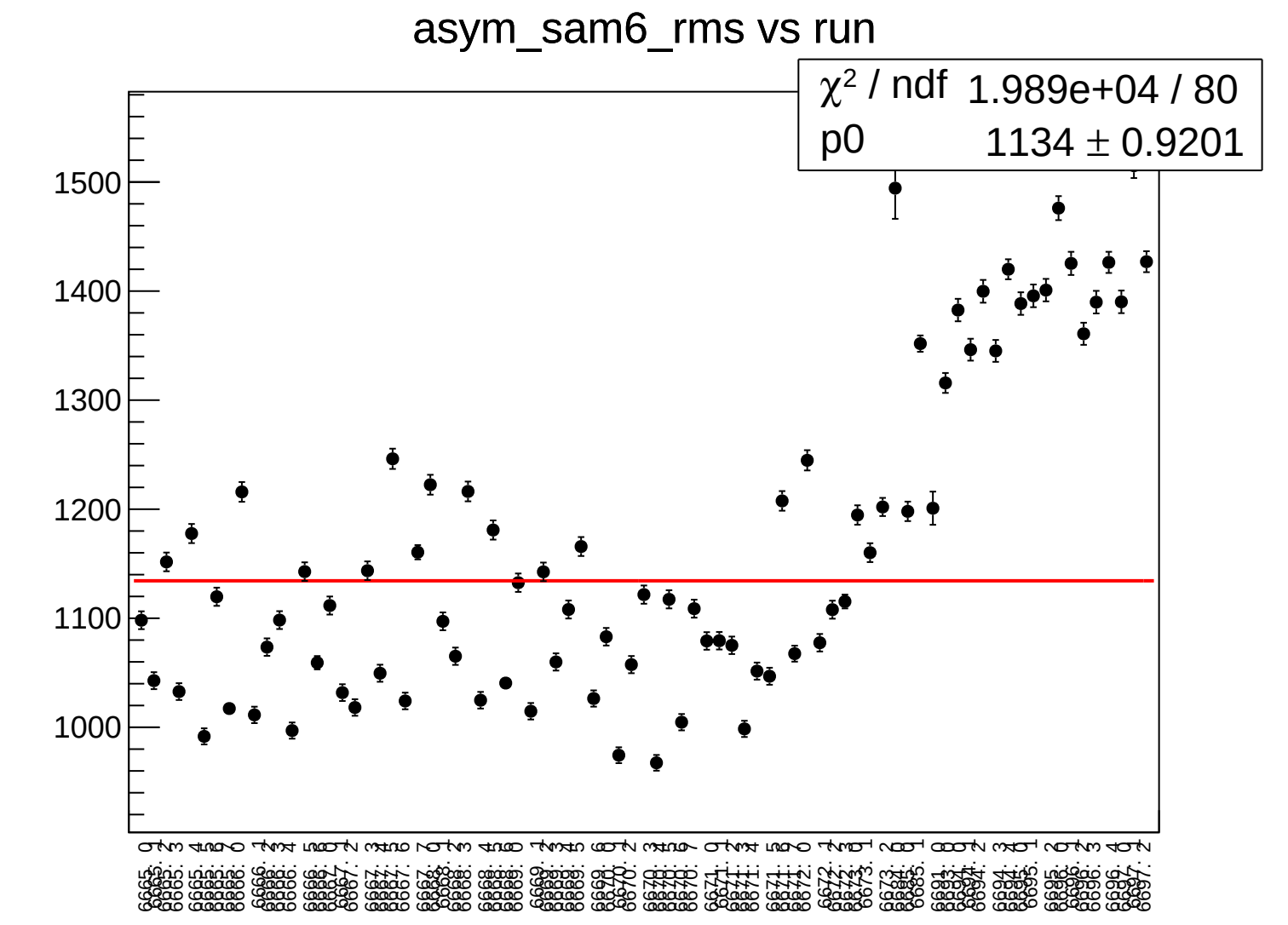

asym_sam5_mean vs run
χ² / ndf 60.03 / 80
p0 546.7 ± 1008
pull
Entries 81
Mean 302.8
Std Dev 237.7

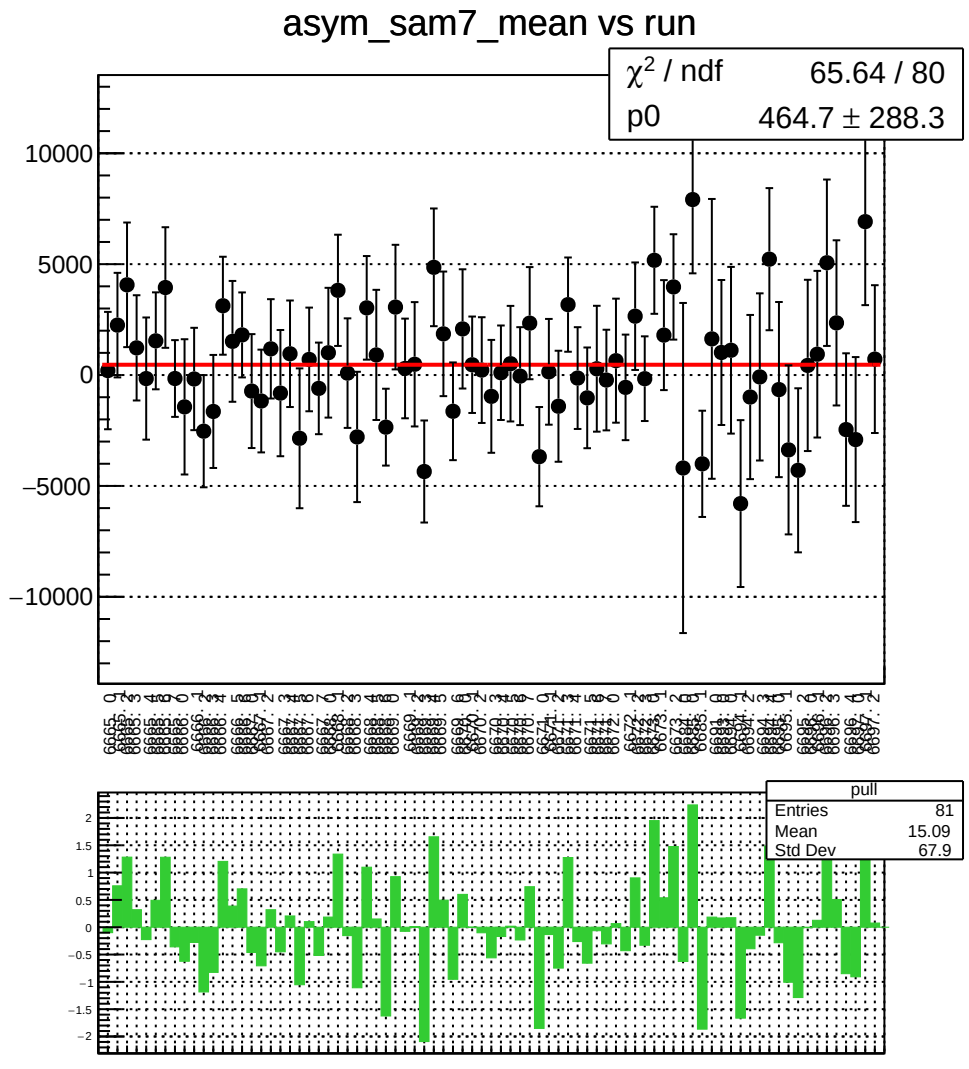

pull1D
Entries 81
Mean 0.005166
Std Dev 0.8609

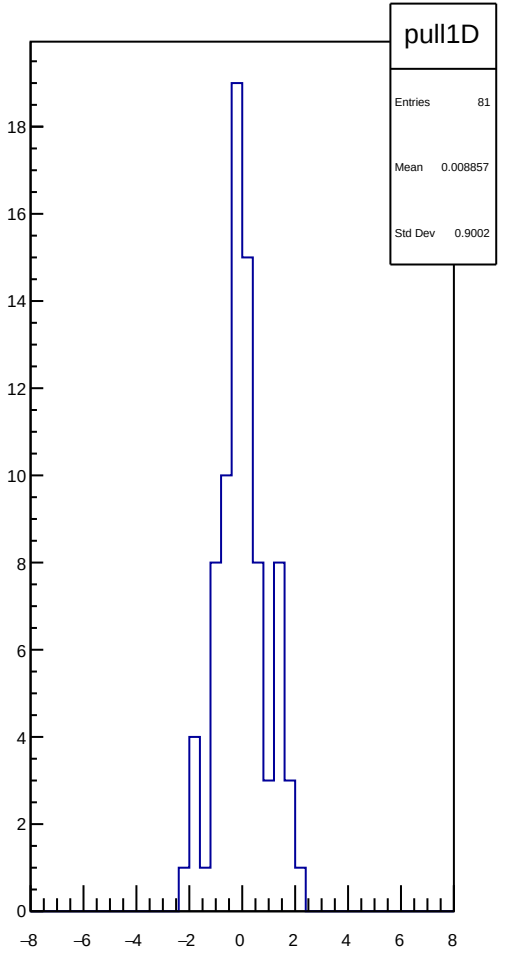

asym_sam5_rms vs run
χ^2 / ndf 8419 / 80
p0 882.2 ± 0.7129
1100
1050
1000
950
900
850
800

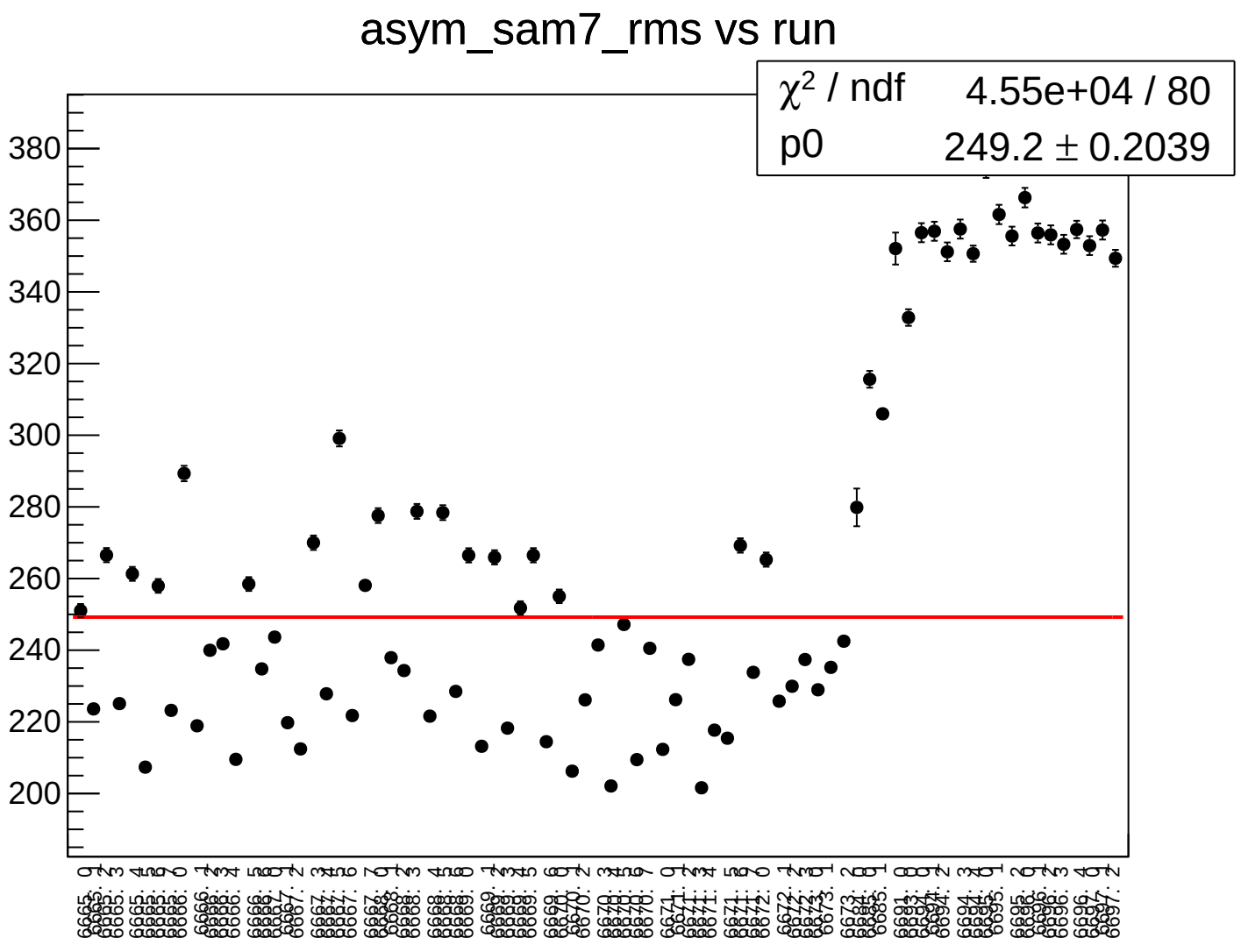

asym_sam6_mean vs run
χ² / ndf 47.06 / 80
p0 196.9 ± 1301
pull
Entries 81
Mean −28.79
Std Dev 72.9

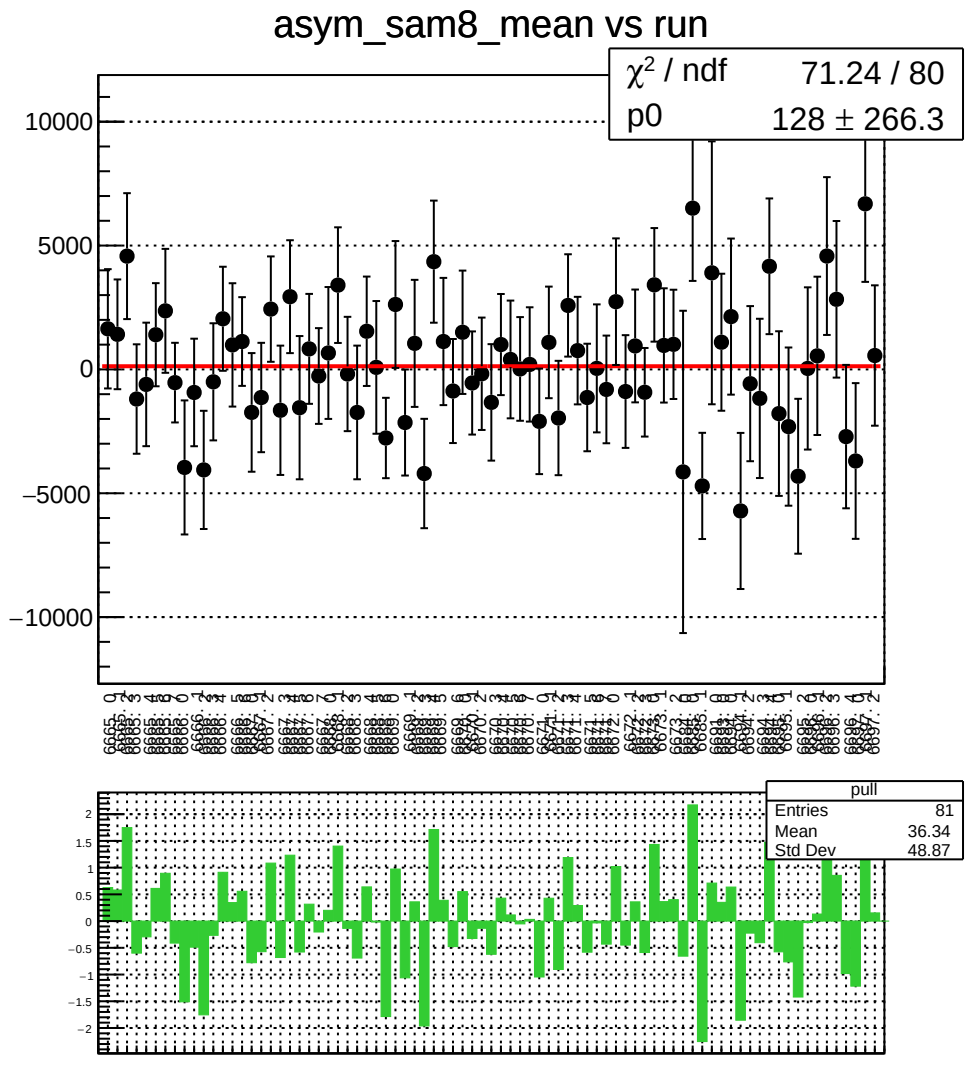

pull1D
Entries 81
Mean −0.006498
Std Dev 0.7622

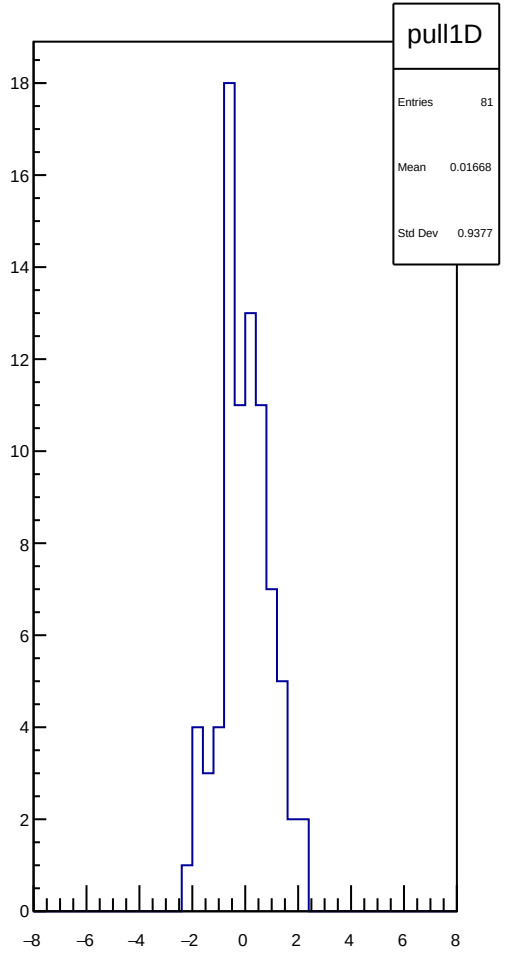

asym_sam6_rms vs run
χ² / ndf 1.989e+04 / 80
p0 1134 ± 0.9201
1500
1400
1300
1200
1100
1000

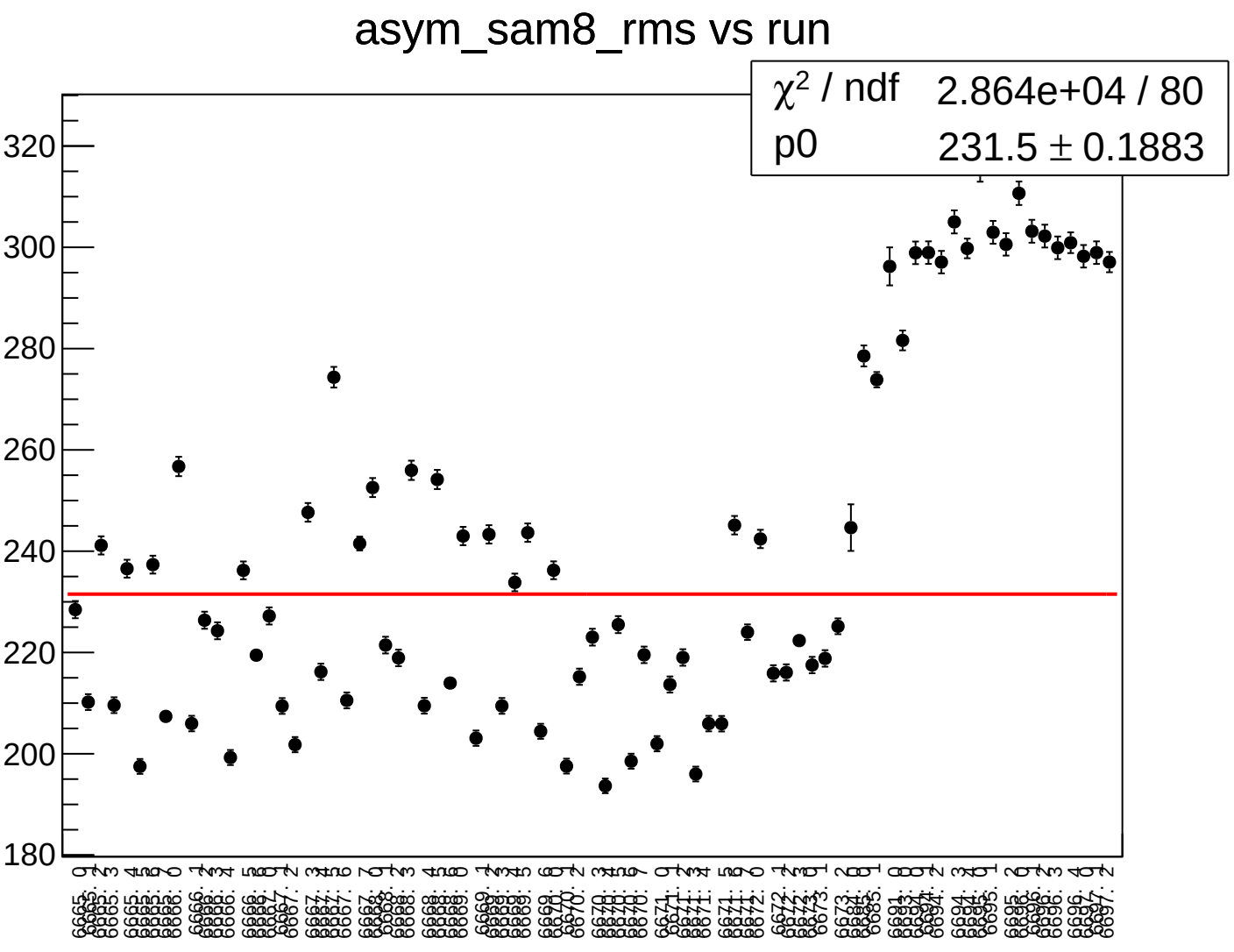

asym_sam7_mean vs run
χ^2 / ndf 65.64 / 80
p0 464.7 ± 288.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 15.09
Std Dev 67.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

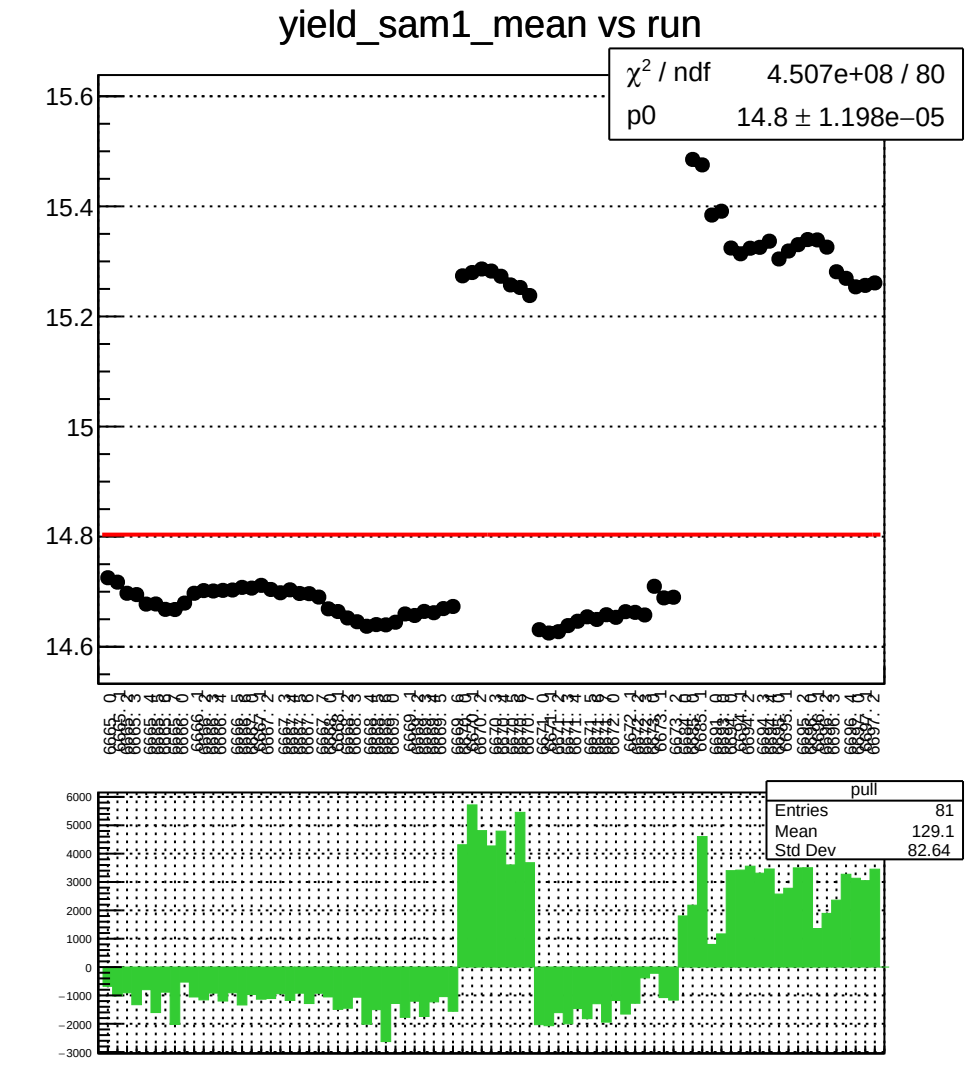

pull1D
Entries 81
Mean 0.008857
Std Dev 0.9002
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

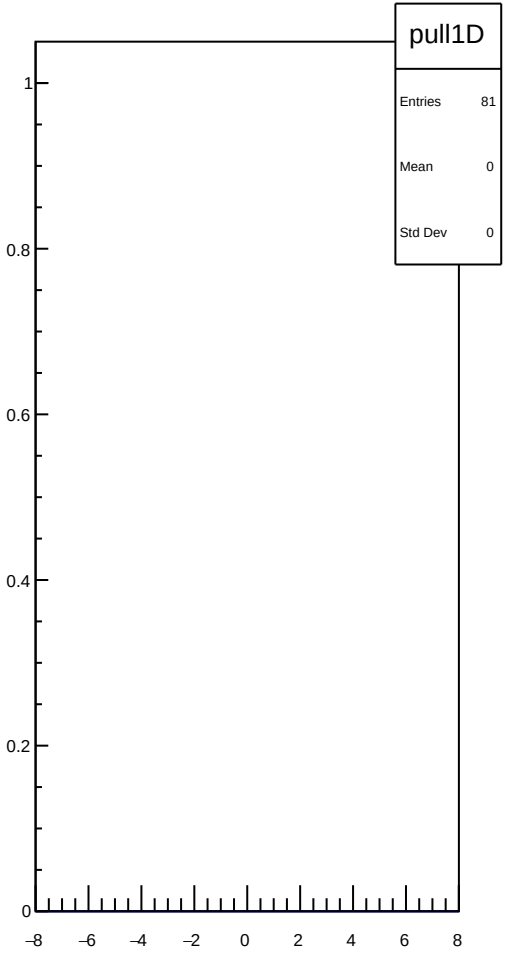

asym_sam7_rms vs run
χ² / ndf 4.55e+04 / 80
p0 249.2 ± 0.2039
380
360
340
320
300
280
260
240
220
200

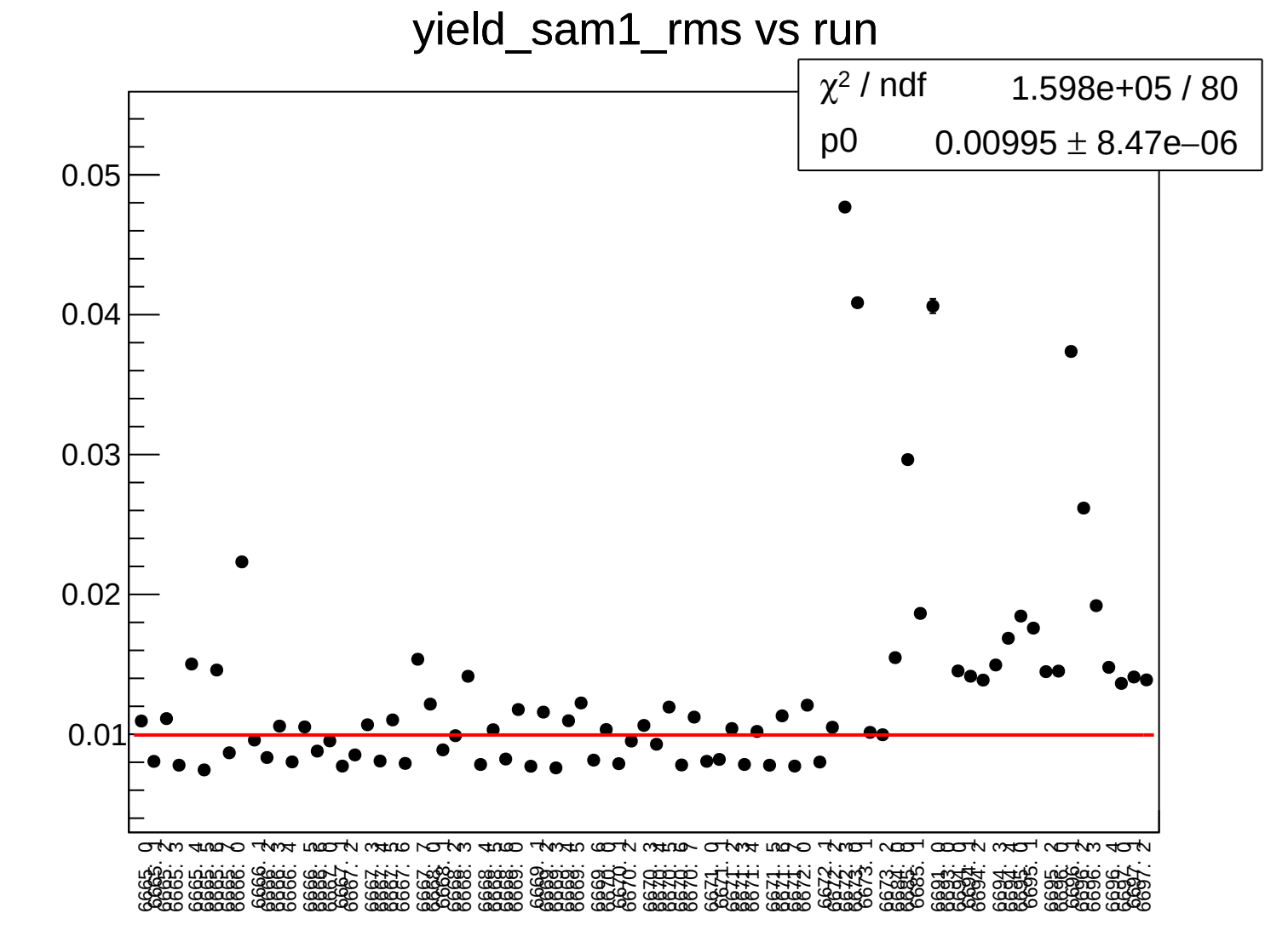

asym_sam8_mean vs run
χ² / ndf 71.24 / 80
p0 128 ± 266.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 36.34
Std Dev 48.87
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

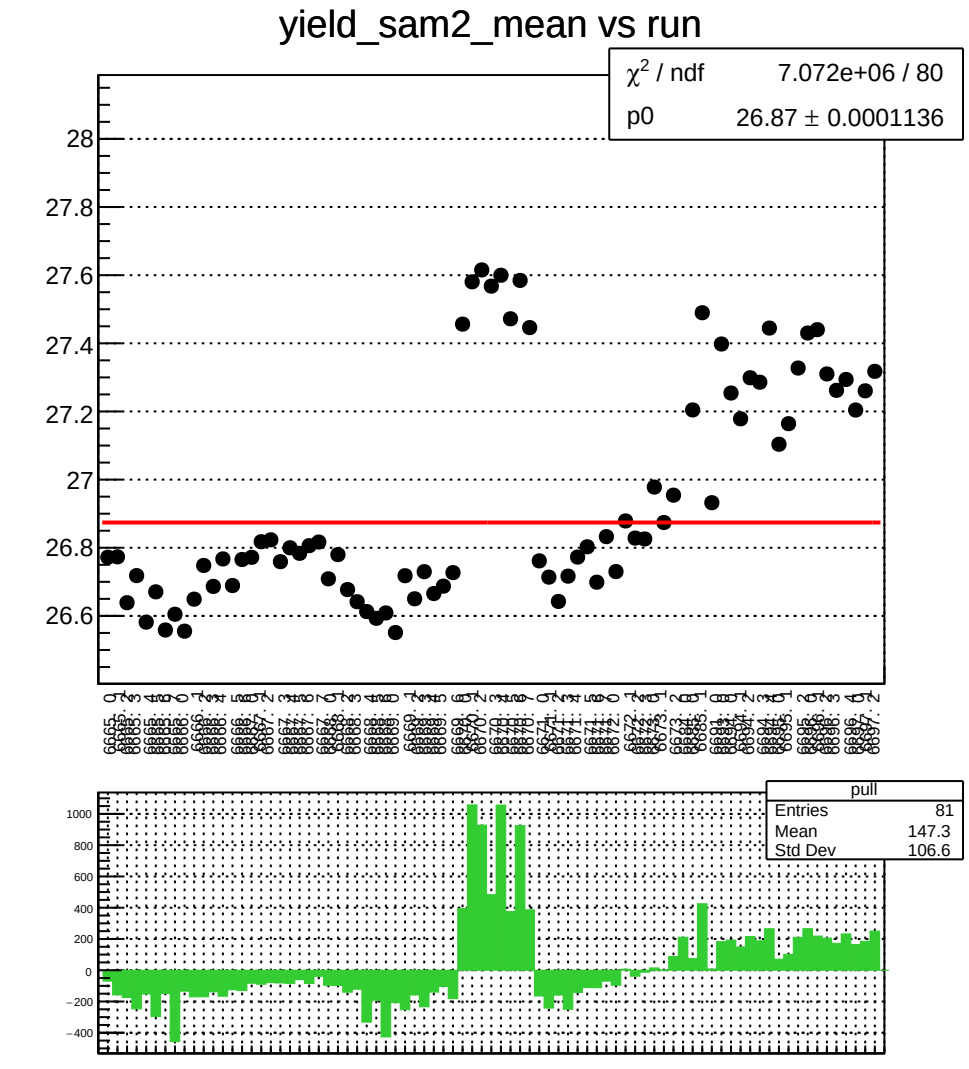

pull1D
Entries 81
Mean 0.01668
Std Dev 0.9377
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

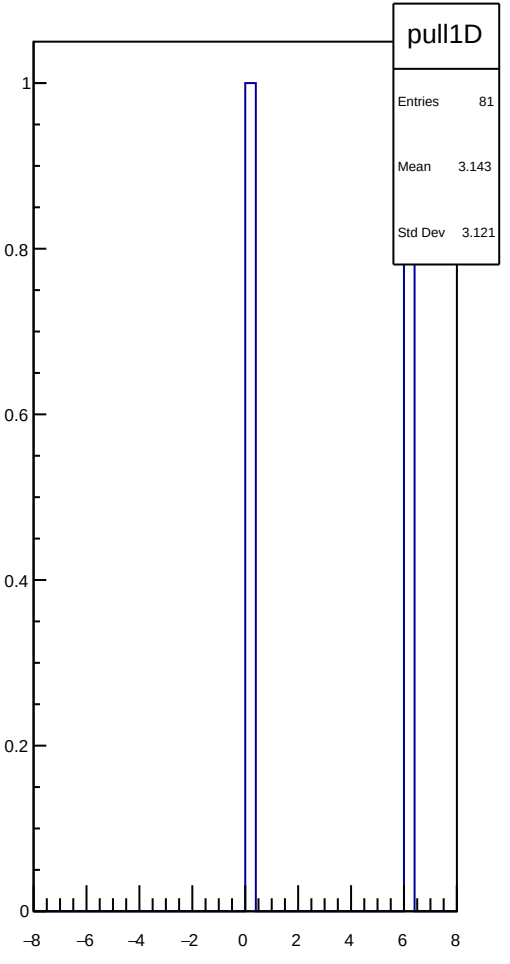

asym_sam8_rms vs run
χ² / ndf 2.864e+04 / 80
p0 231.5 ± 0.1883
320
300
280
260
240
220
200
180

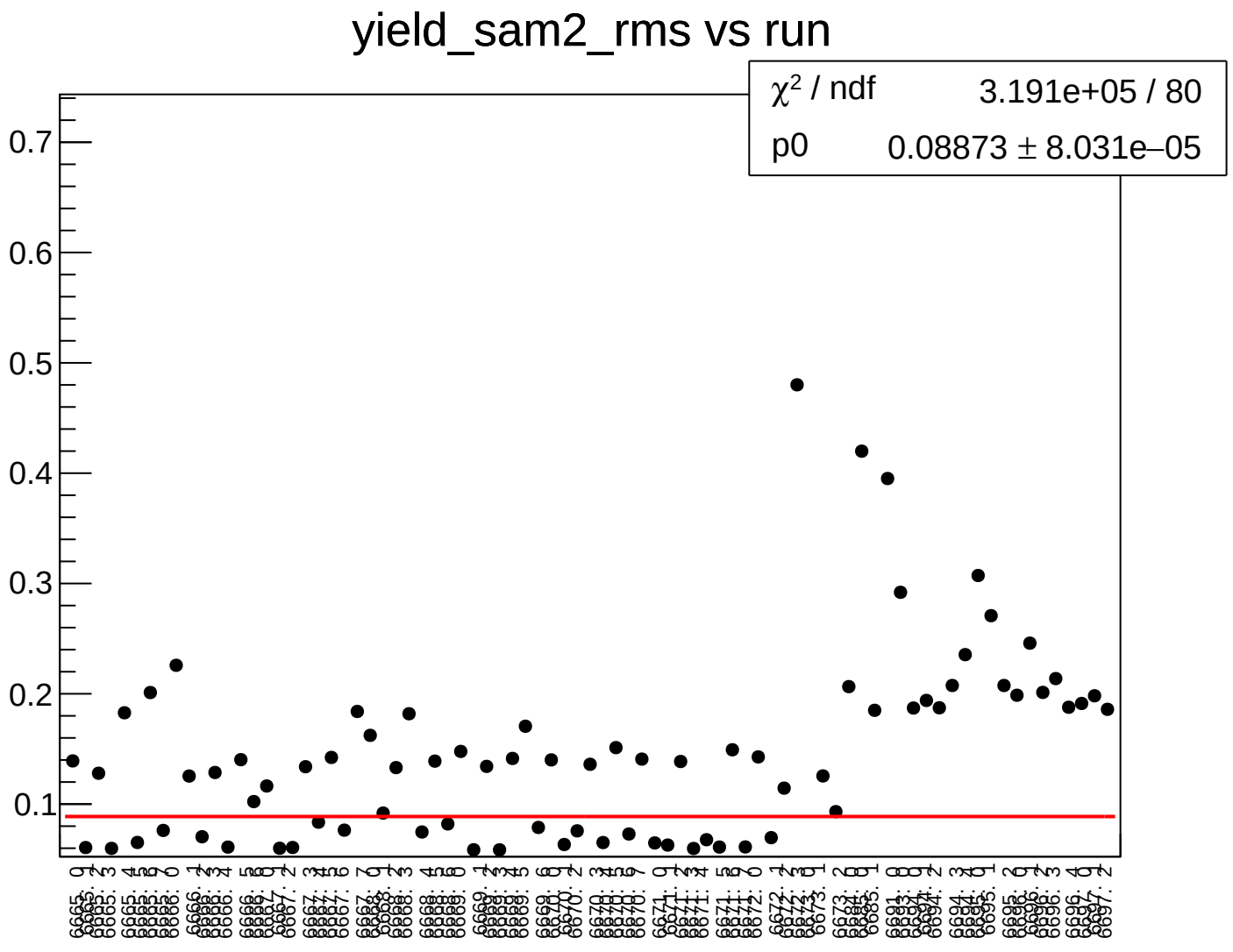

yield_sam1_mean vs run
χ² / ndf 4.507e+08 / 80
p0 14.8 ± 1.198e−05
15.6
15.4
15.2
15
14.8
14.6
pull
Entries 81
Mean 129.1
Std Dev 82.64
6000
5000
4000
3000
2000
1000
0
−1000
−2000
−3000

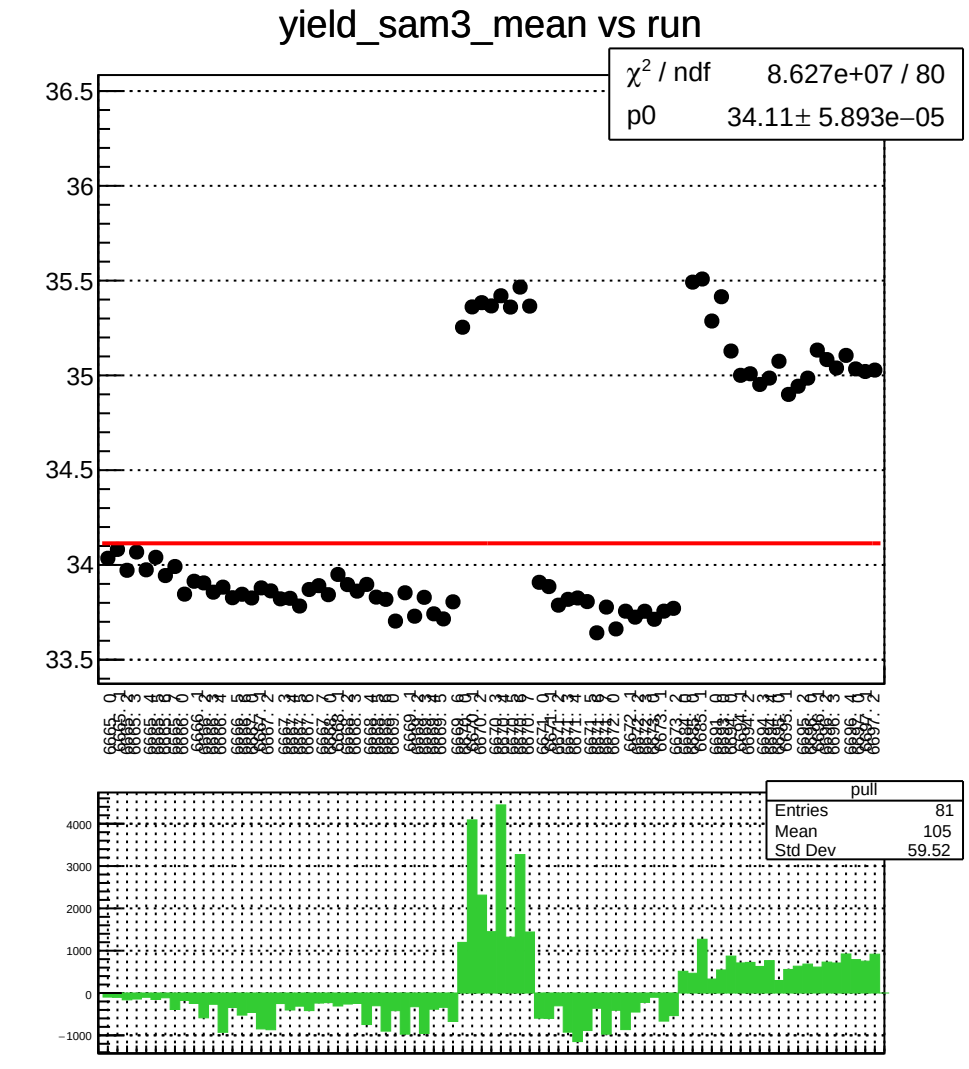

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

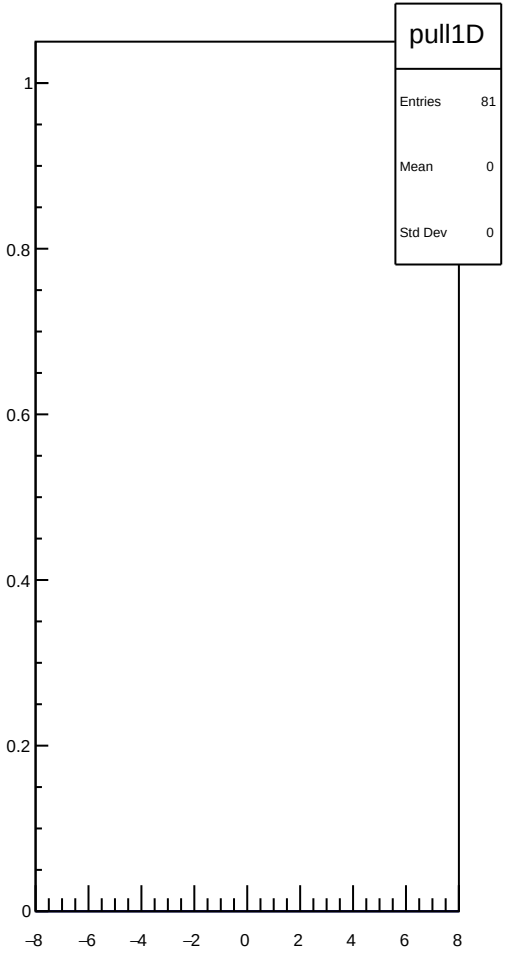

yield_sam1_rms vs run
χ² / ndf 1.598e+05 / 80
p0 0.00995 ± 8.47e−06
0.05
0.04
0.03
0.02
0.01

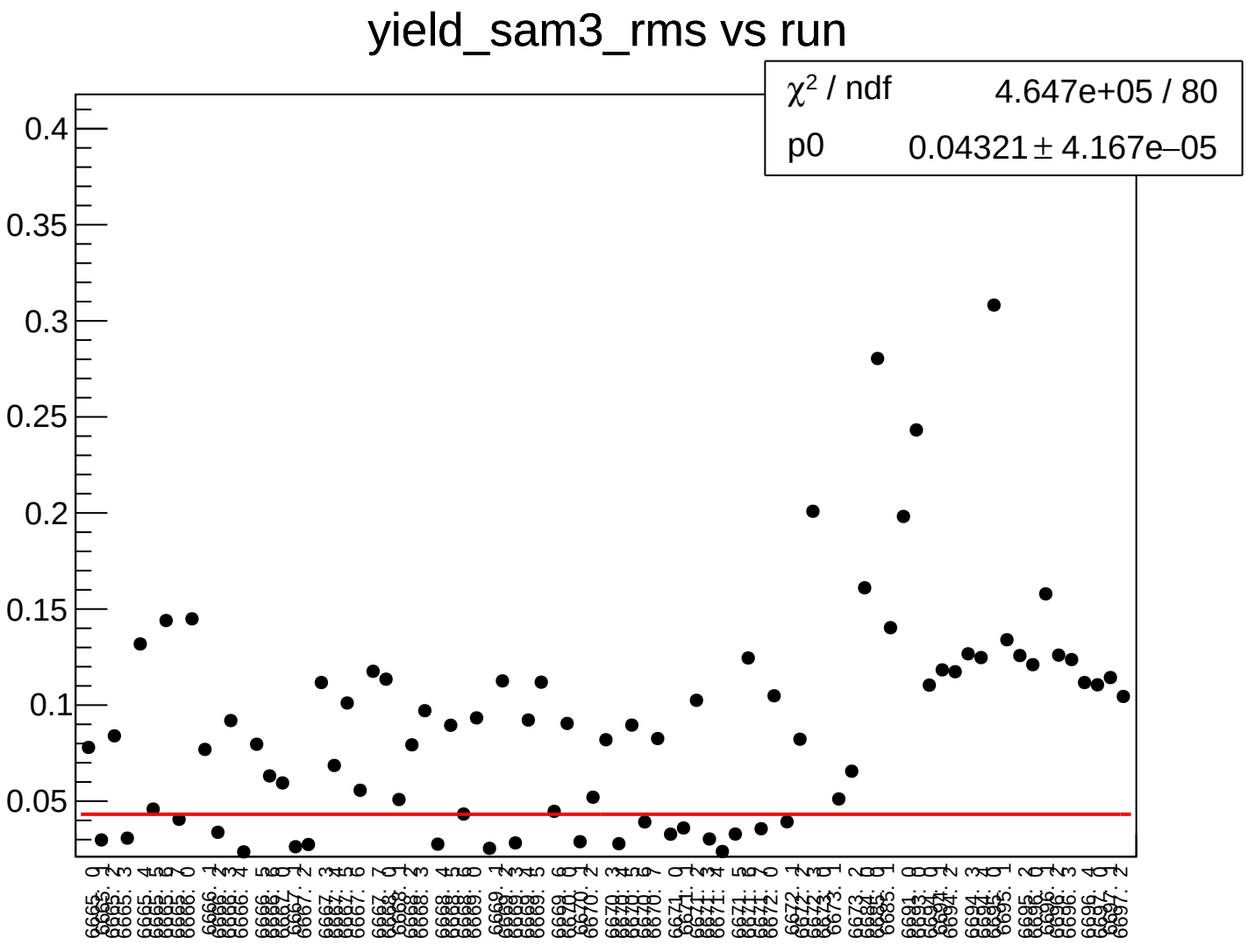

yield_sam2_mean vs run
χ² / ndf 7.072e+06 / 80
p0 26.87 ± 0.0001136
28
27.8
27.6
27.4
27.2
27
26.8
26.6
pull
Entries 81
Mean 147.3
Std Dev 106.6
1000
800
600
400
200
0
−200
−400

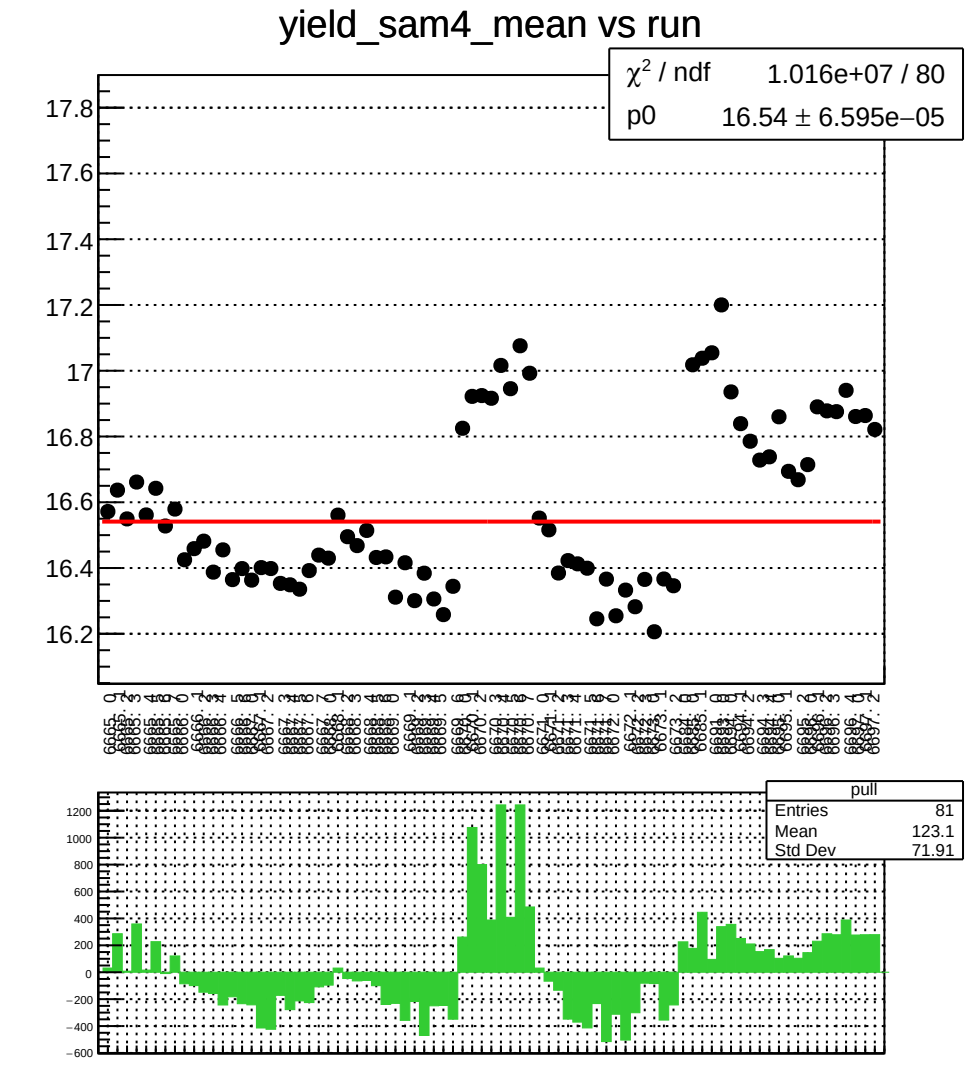

pull1D
Entries 81
Mean 3.143
Std Dev 3.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

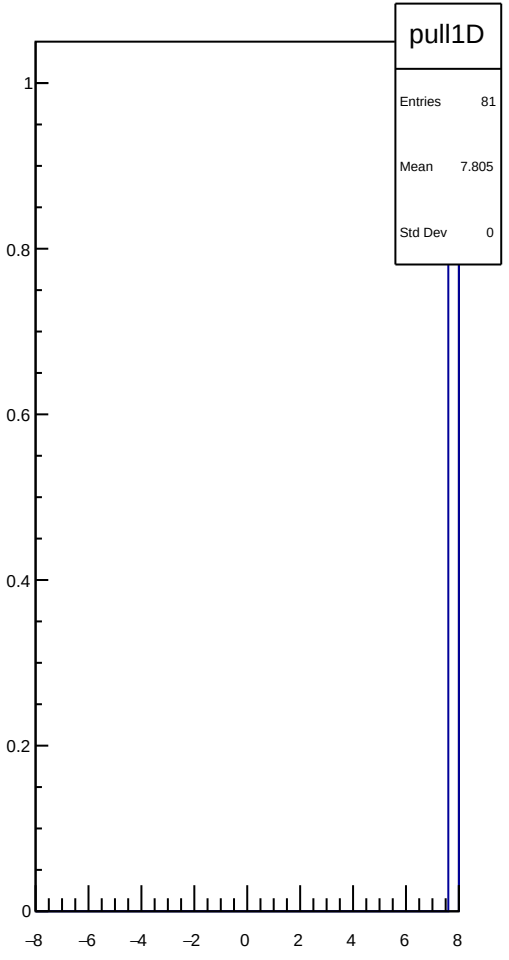

yield_sam2_rms vs run
χ² / ndf 3.191e+05 / 80
p0 0.08873 ± 8.031e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

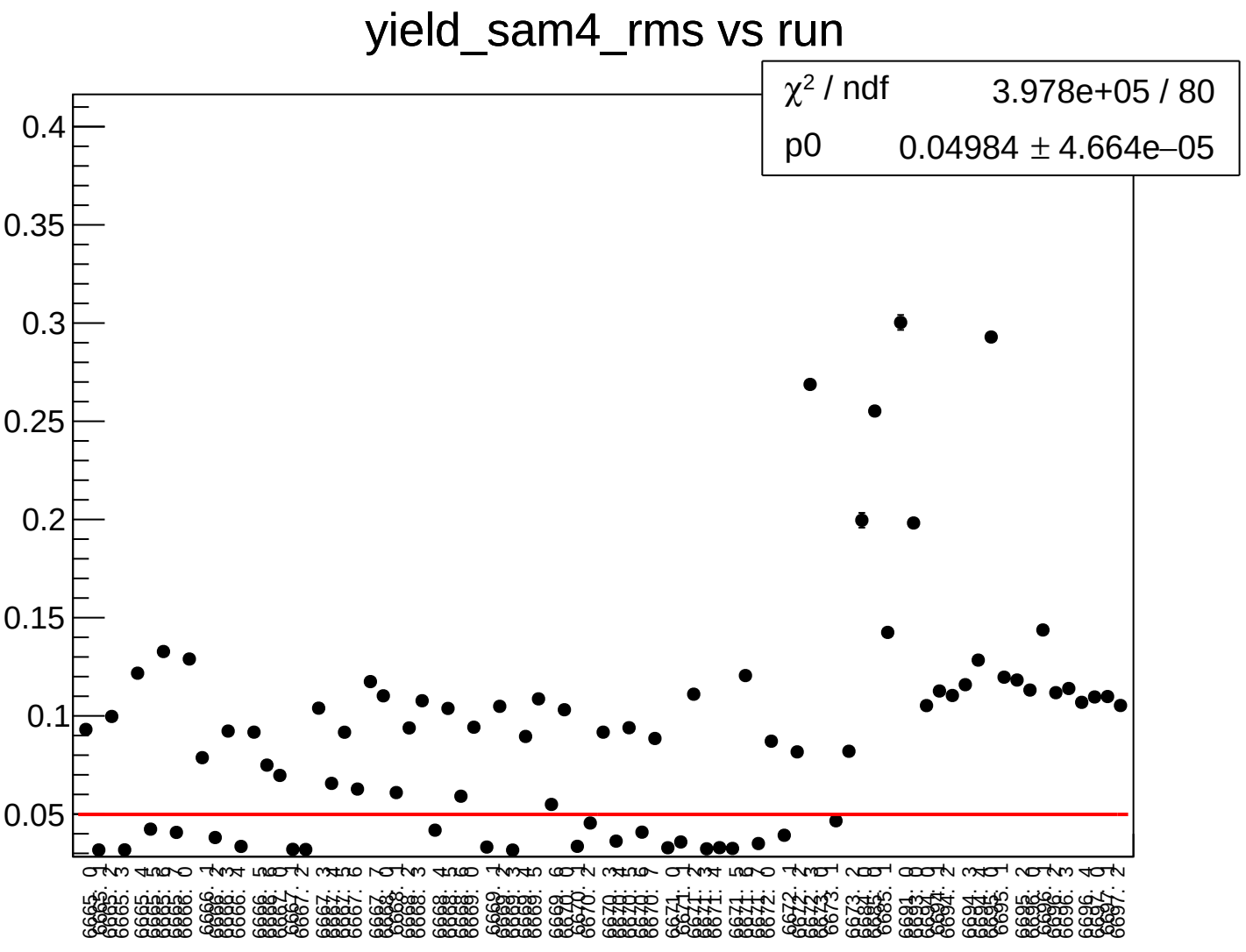

yield_sam3_mean vs run
χ² / ndf 8.627e+07 / 80
p0 34.11± 5.893e−05
36.5
36
35.5
35
34.5
34
33.5
pull
Entries 81
Mean 105
Std Dev 59.52
4000
3000
2000
1000
0
−1000

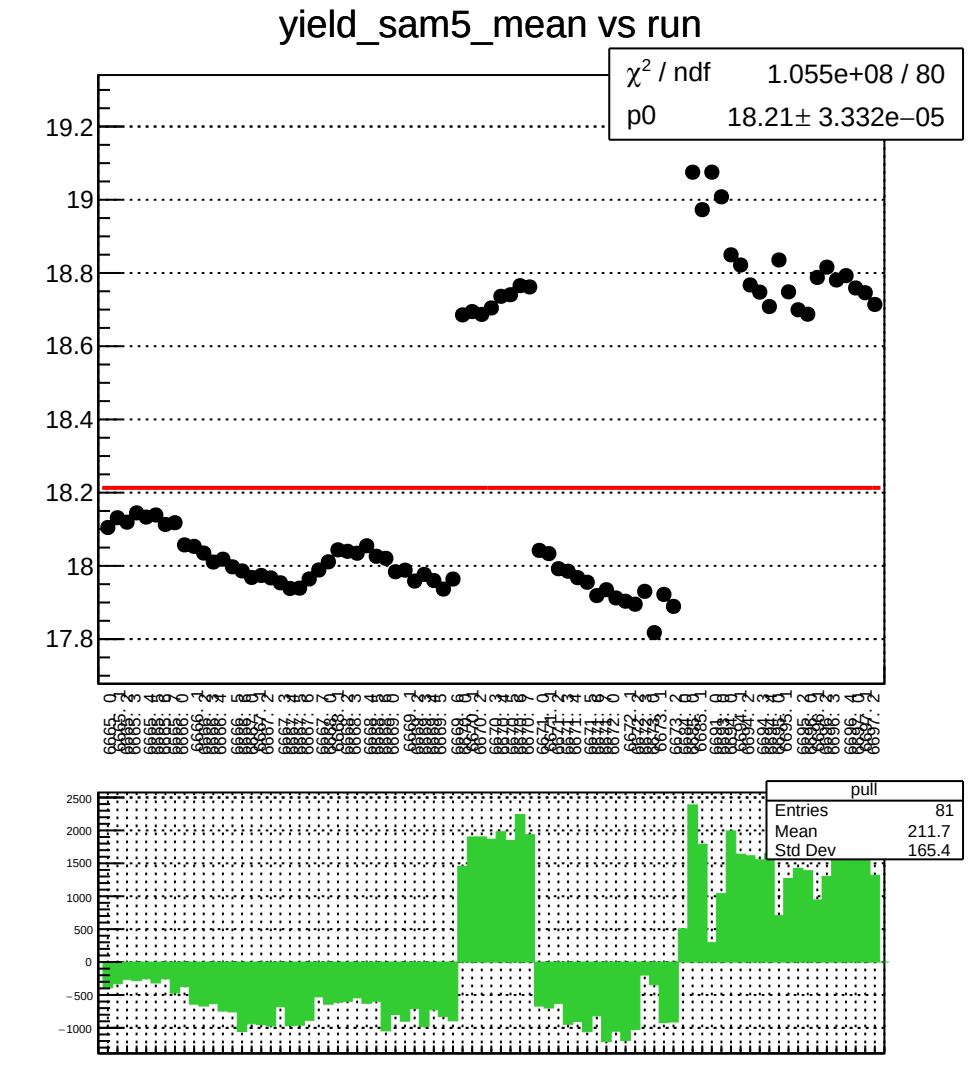

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

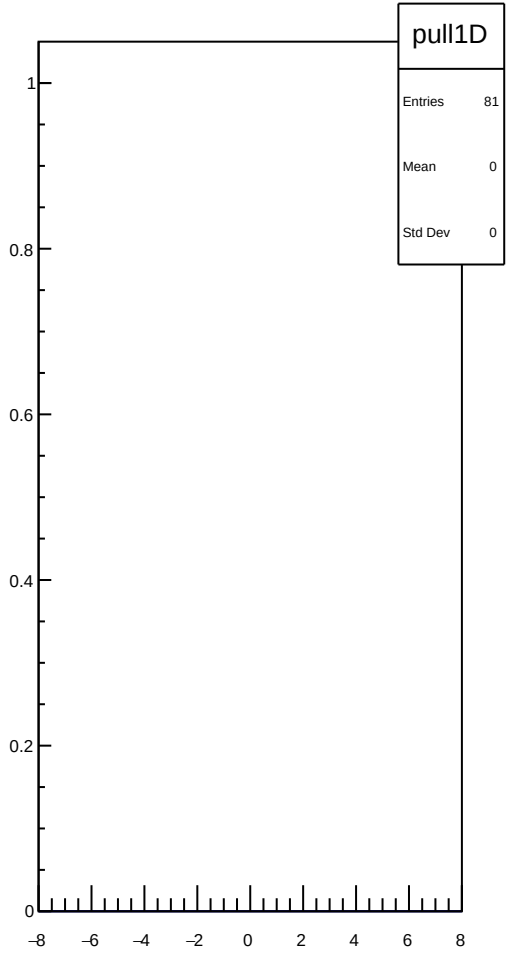

yield_sam3_rms vs run
χ² / ndf 4.647e+05 / 80
p0 0.04321 ± 4.167e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

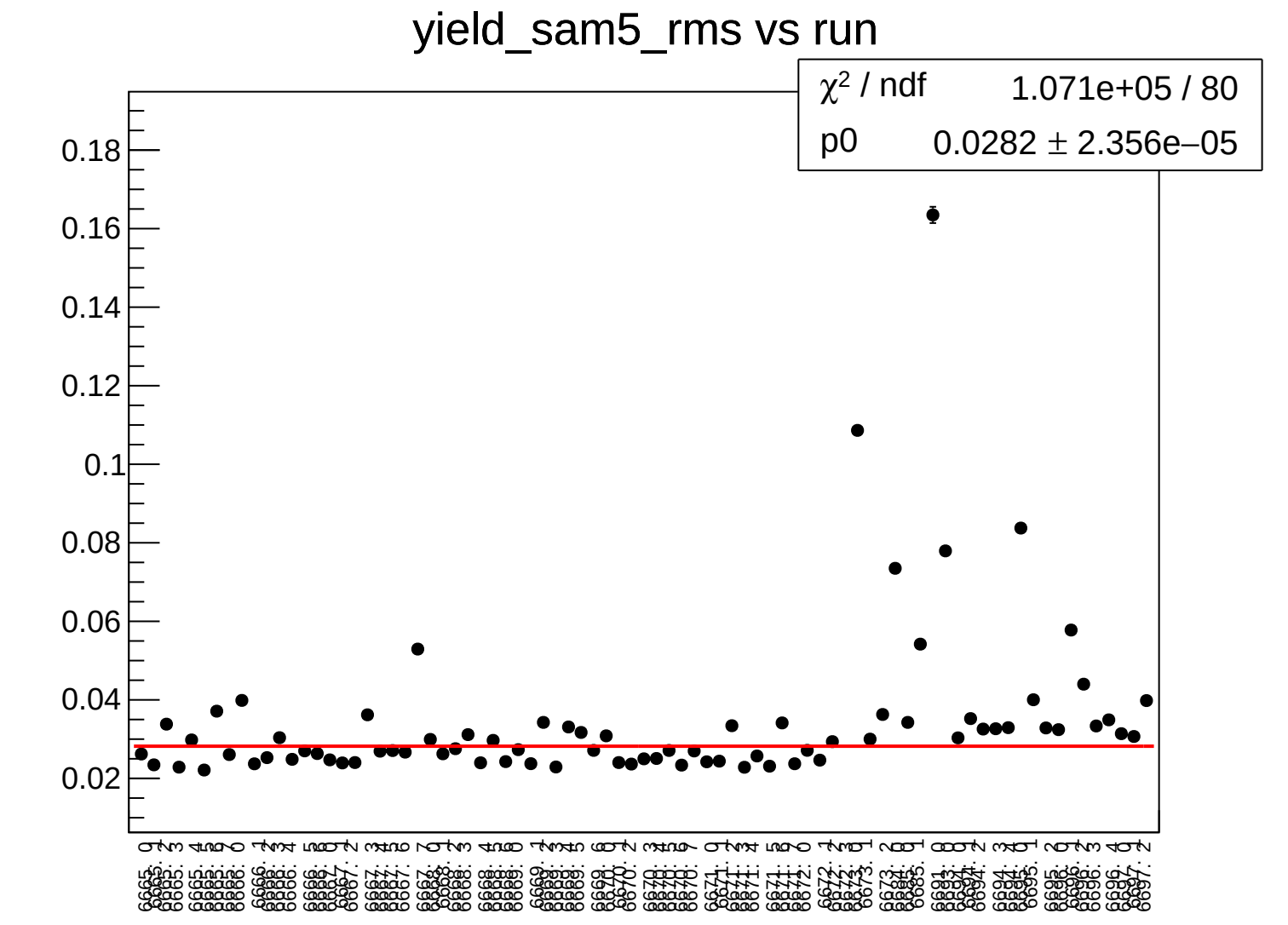

yield_sam4_mean vs run
χ² / ndf 1.016e+07 / 80
p0 16.54 ± 6.595e−05
17.8
17.6
17.4
17.2
17
16.8
16.6
16.4
16.2
pull
Entries 81
Mean 123.1
Std Dev 71.91
1200
1000
800
600
400
200
0
−200
−400
−600

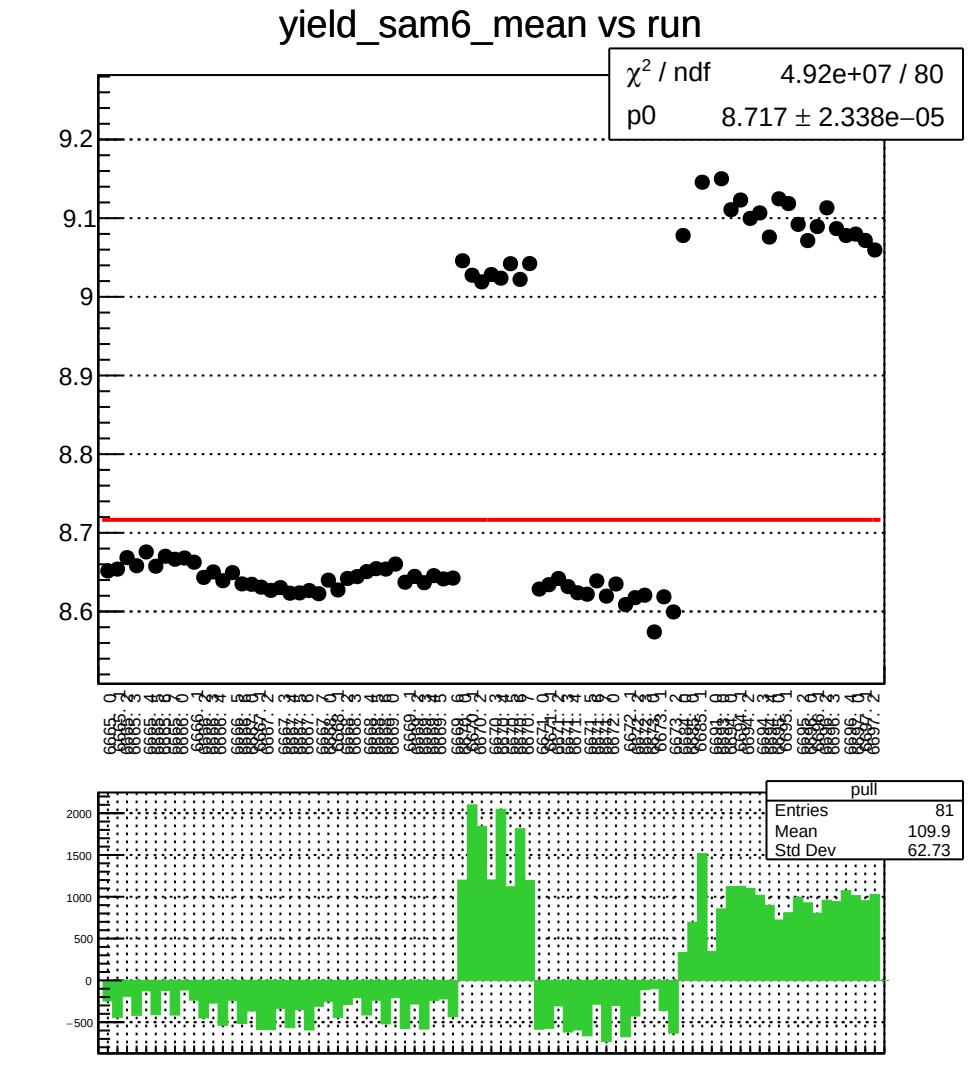

pull1D
Entries 81
Mean 7.805
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

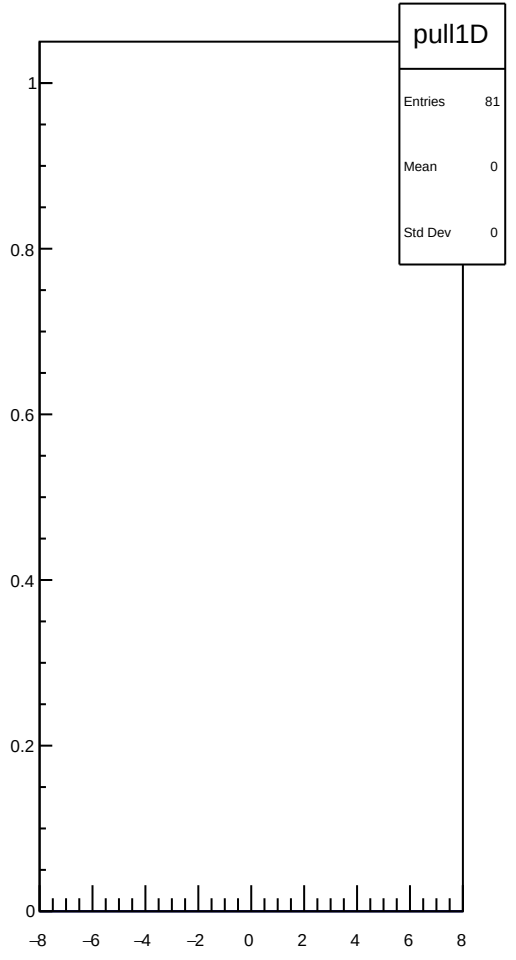

yield_sam4_rms vs run
χ² / ndf 3.978e+05 / 80
p0 0.04984 ± 4.664e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

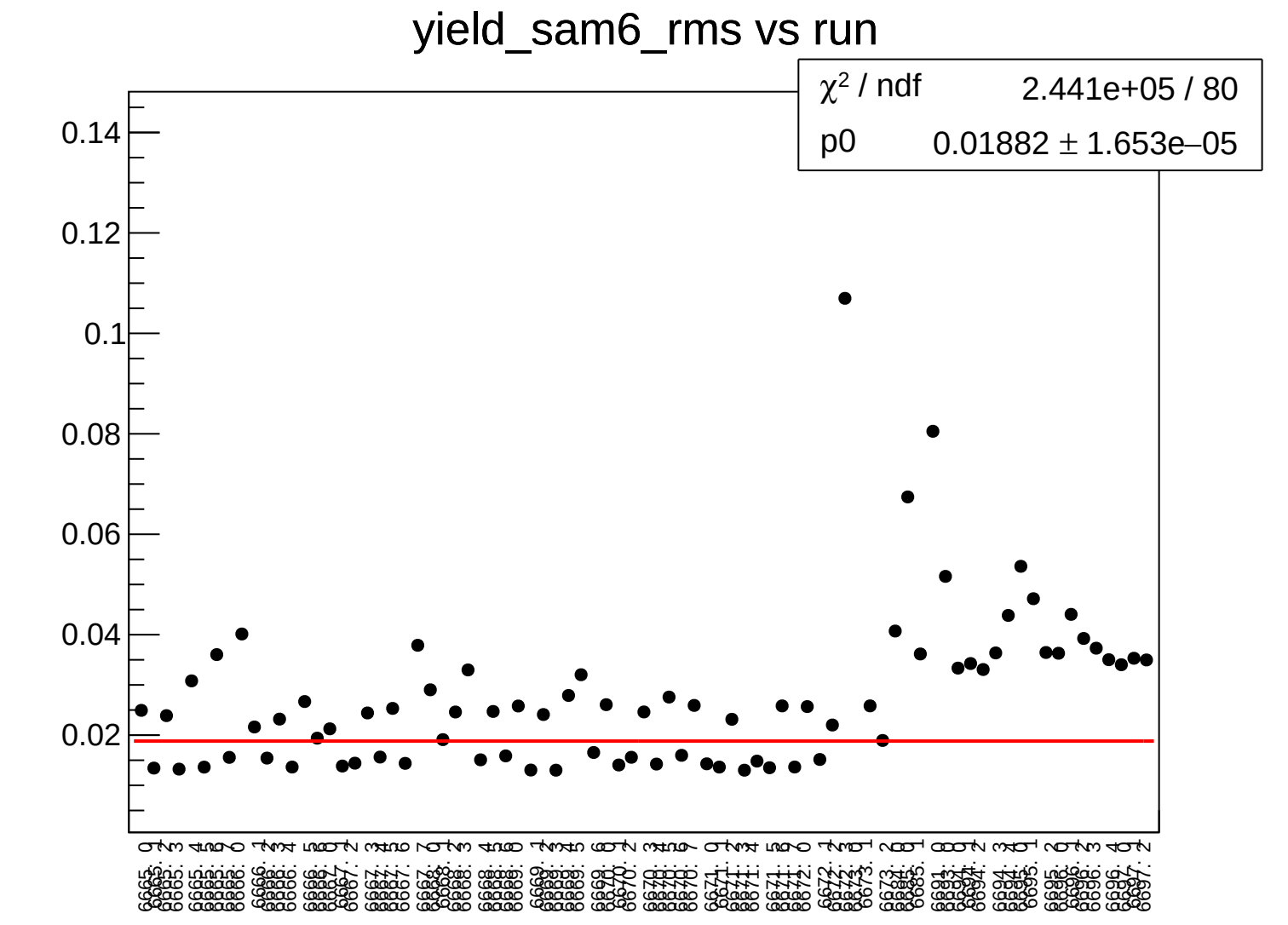

yield_sam5_mean vs run
χ² / ndf 1.055e+08 / 80
p0 18.21± 3.332e−05
19.2
19
18.8
18.6
18.4
18.2
18
17.8
pull
Entries 81
Mean 211.7
Std Dev 165.4
2500
2000
1500
1000
500
0
−500
−1000

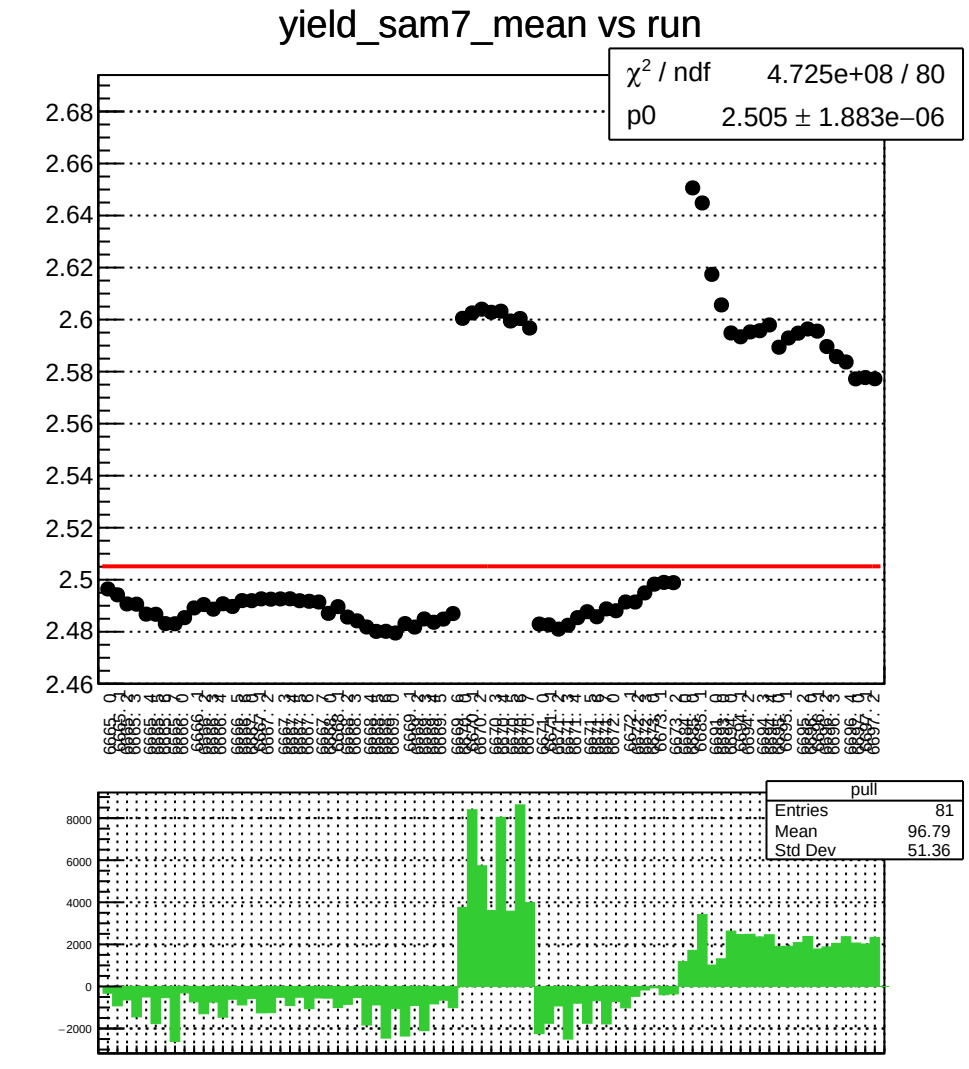

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

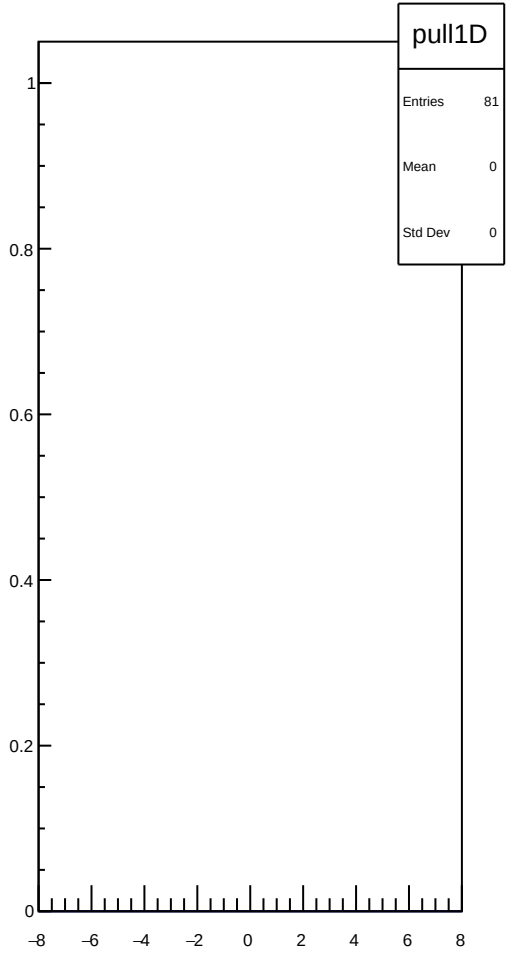

yield_sam5_rms vs run
χ² / ndf 1.071e+05 / 80
p0 0.0282 ± 2.356e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

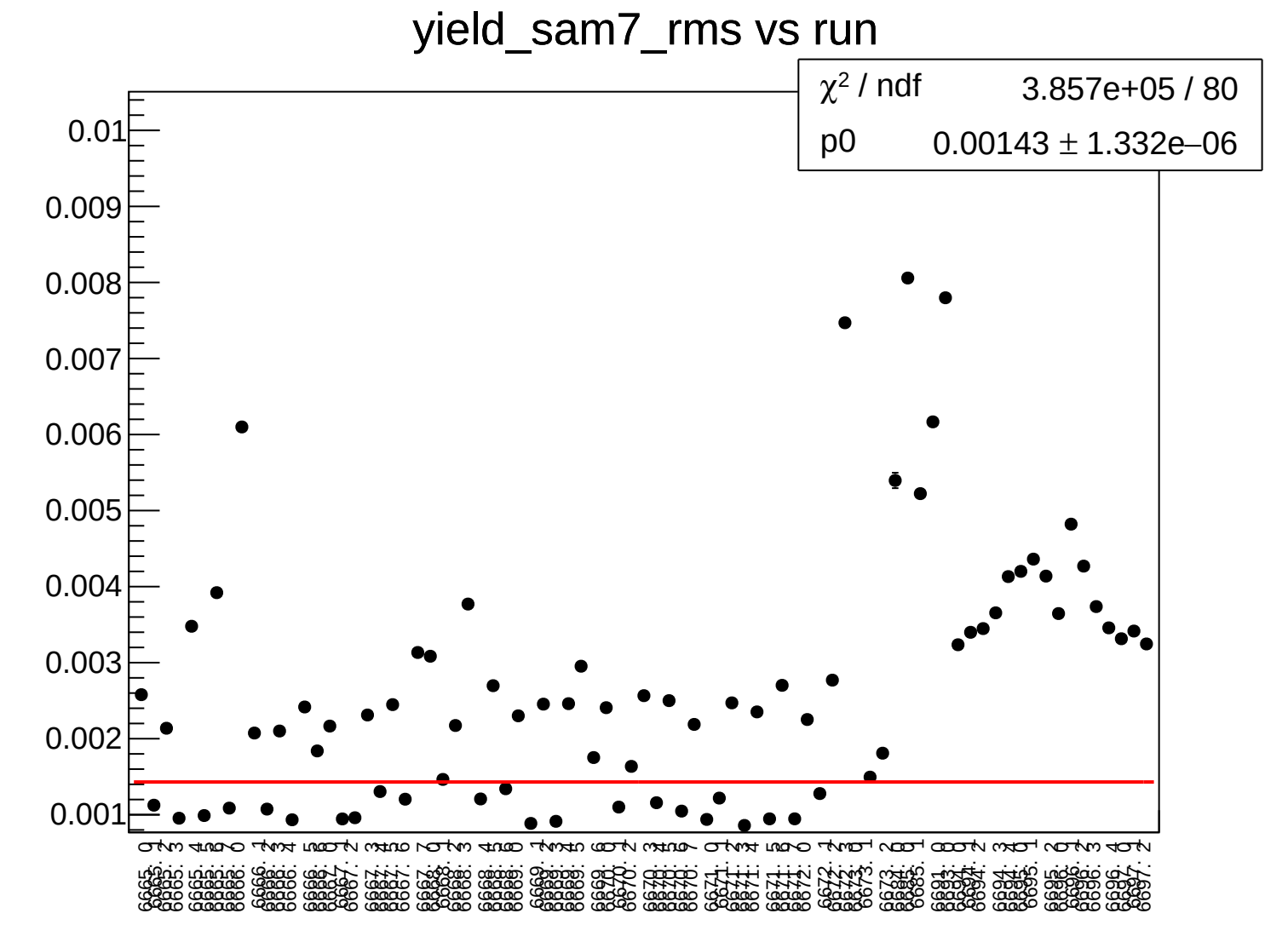

yield_sam6_mean vs run
χ² / ndf 4.92e+07 / 80
p0 8.717 ± 2.338e−05
9.2
9.1
9
8.9
8.8
8.7
8.6
pull
Entries 81
Mean 109.9
Std Dev 62.73
2000
1500
1000
500
0
−500

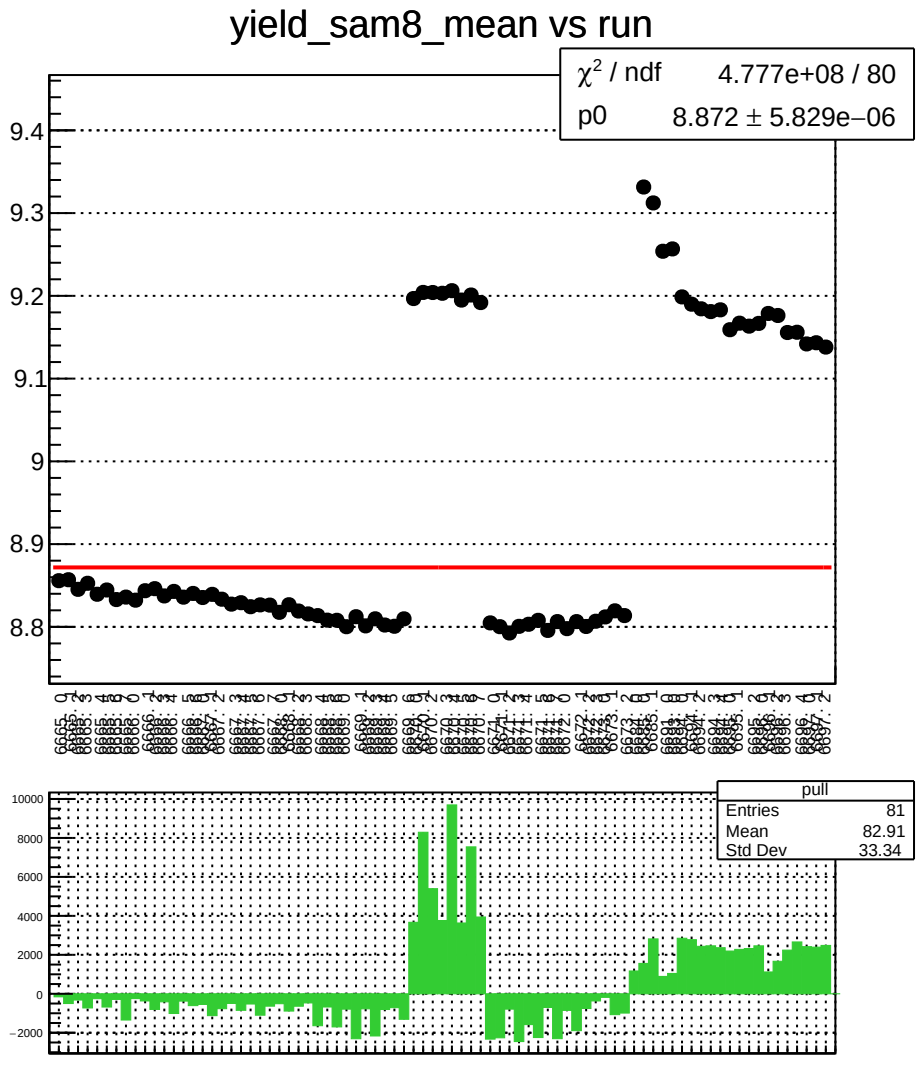

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

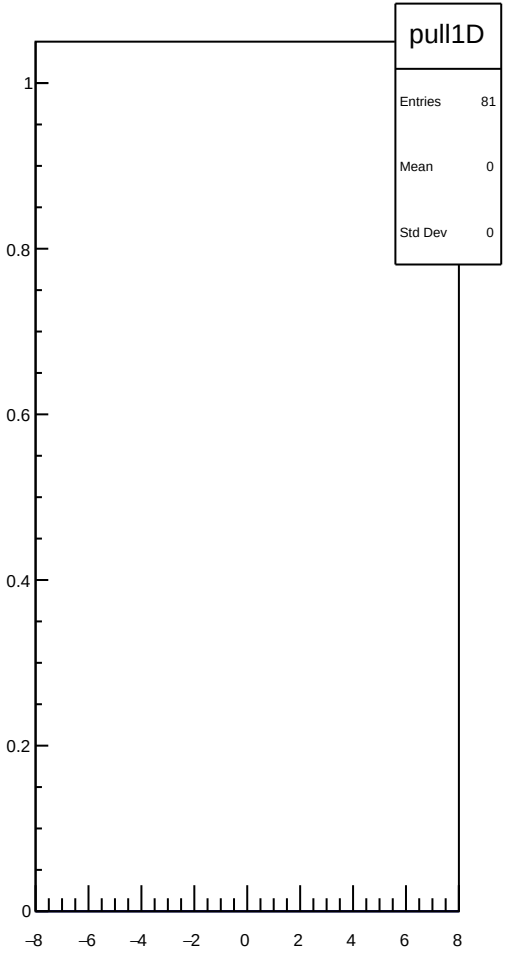

yield_sam6_rms vs run
χ² / ndf 2.441e+05 / 80
p0 0.01882 ± 1.653e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

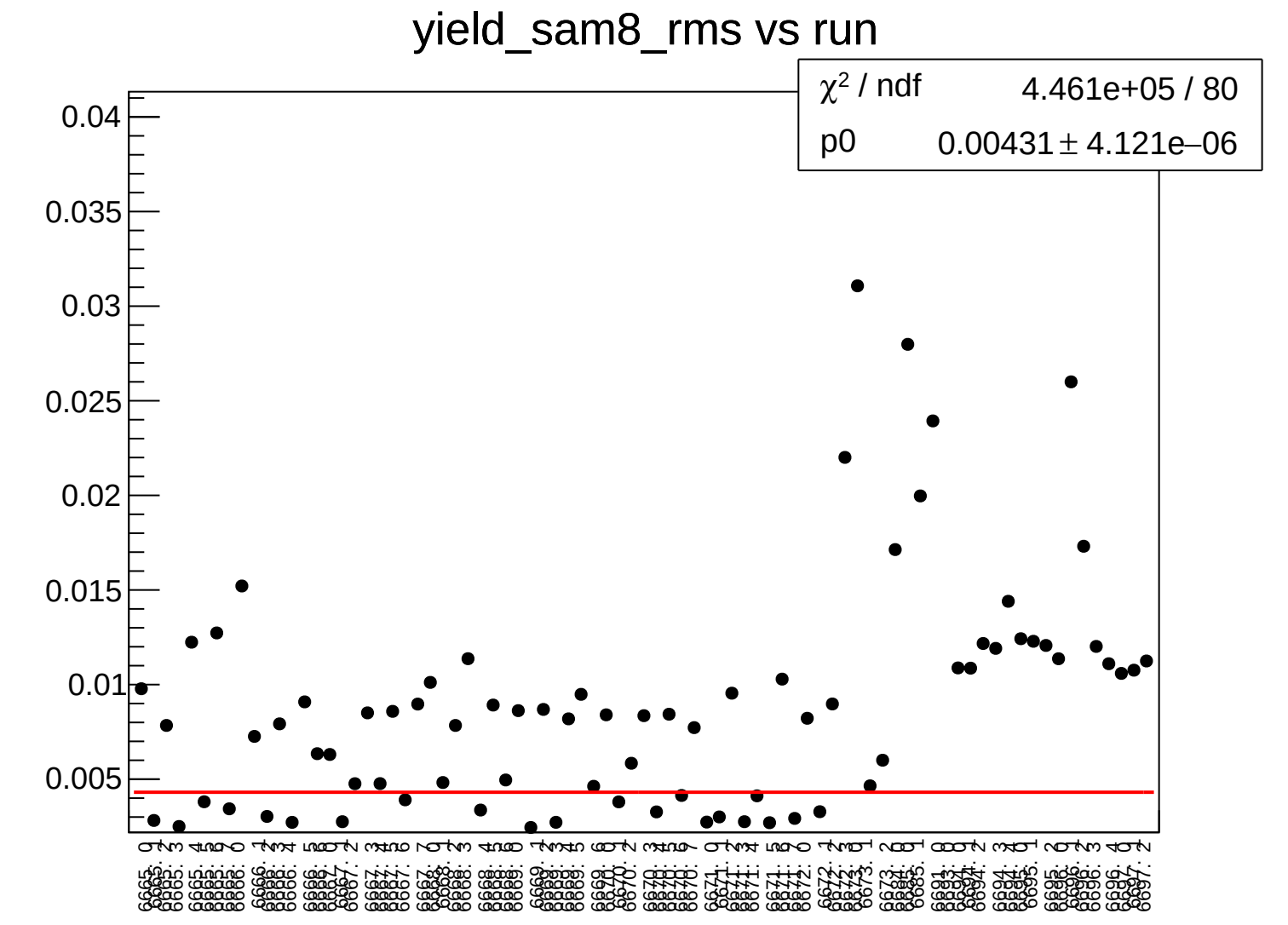

yield_sam7_mean vs run
χ² / ndf 4.725e+08 / 80
p0 2.505 ± 1.883e−06
pull
Entries 81
Mean 96.79
Std Dev 51.36

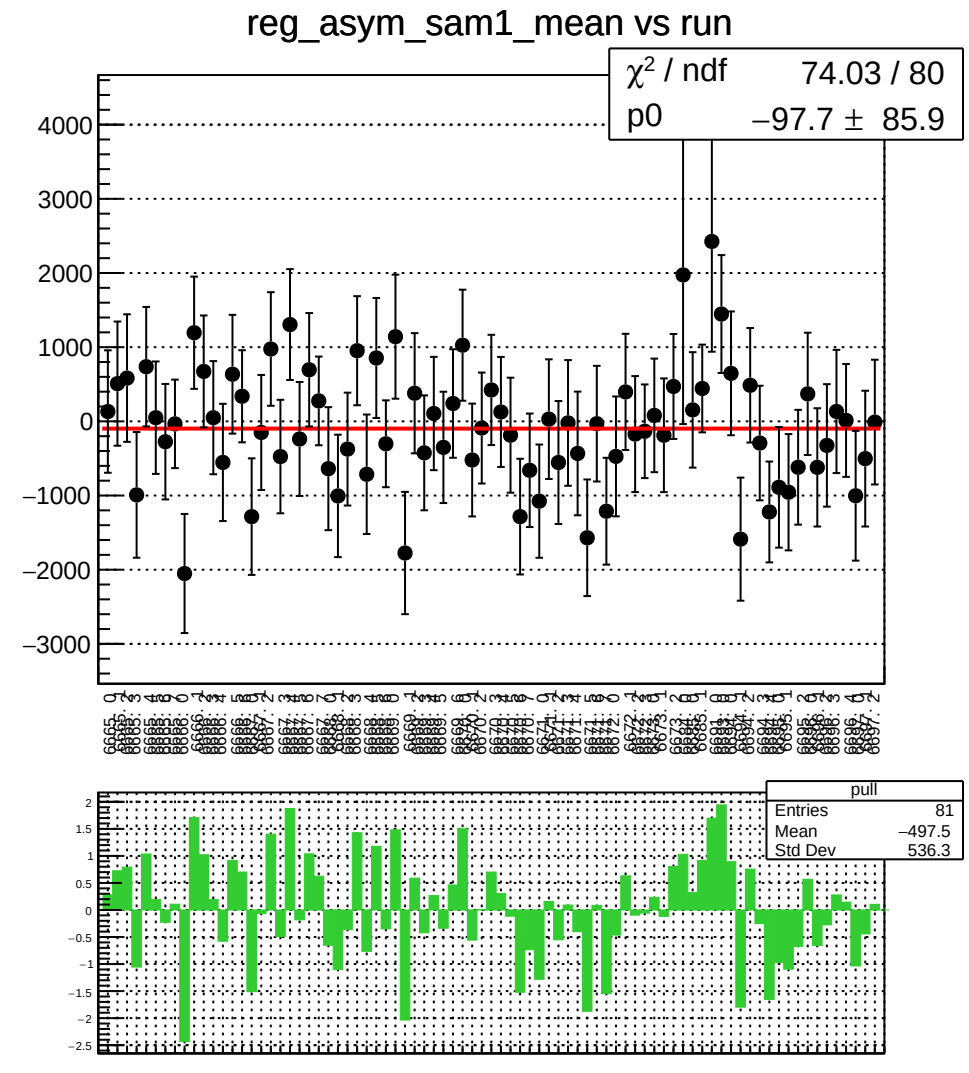

pull1D
Entries 81
Mean 0
Std Dev 0

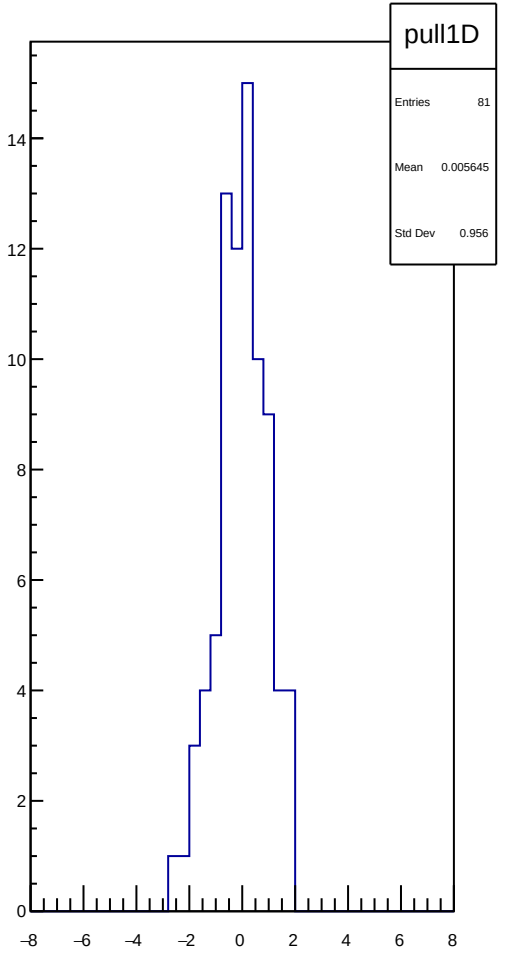

yield_sam7_rms vs run
χ² / ndf 3.857e+05 / 80
p0 0.00143 ± 1.332e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

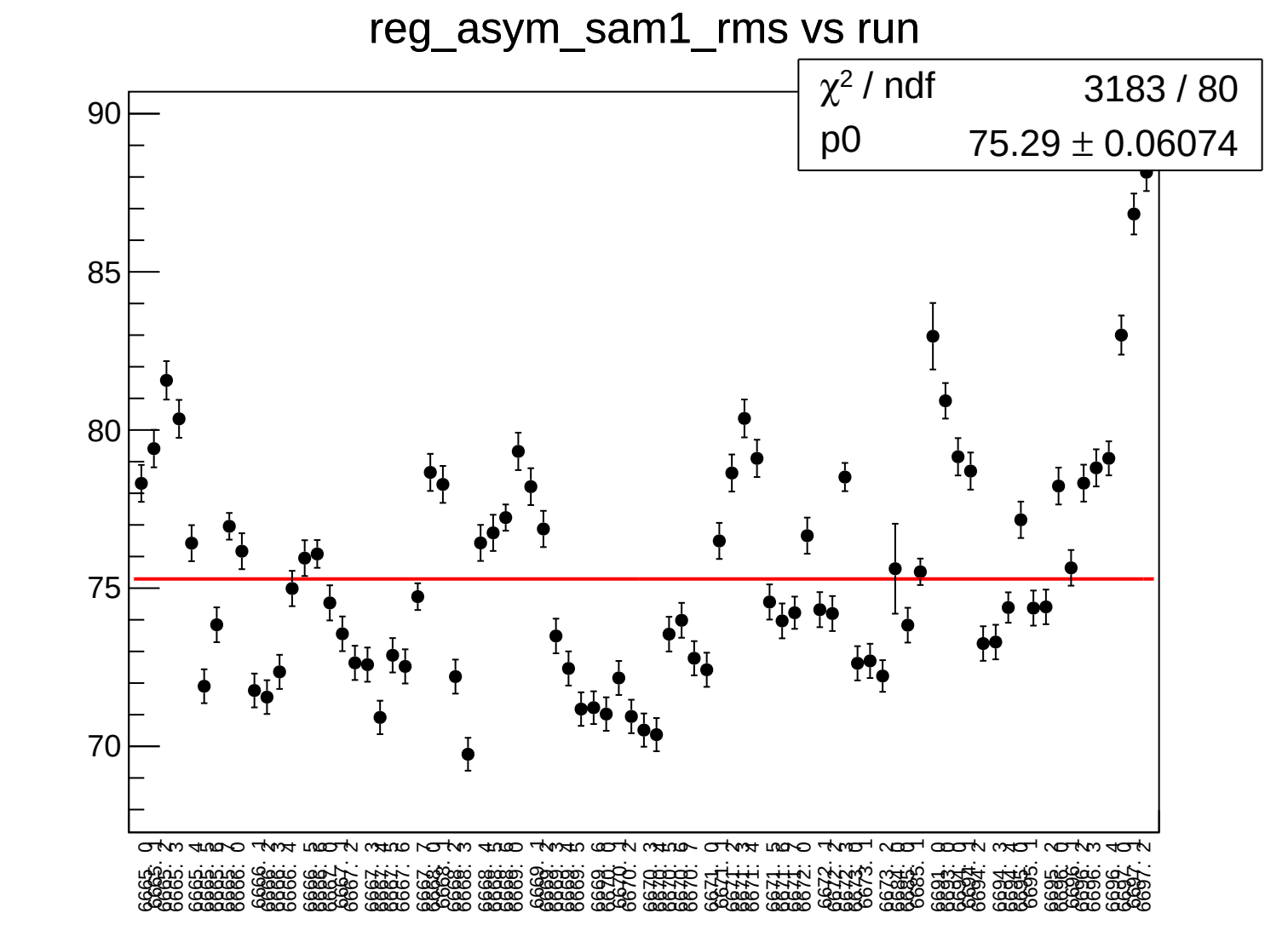

yield_sam8_mean vs run
χ² / ndf 4.777e+08 / 80
p0 8.872 ± 5.829e−06
9.4
9.3
9.2
9.1
9
8.9
8.8
pull
Entries 81
Mean 82.91
Std Dev 33.34
10000
8000
6000
4000
2000
0
−2000

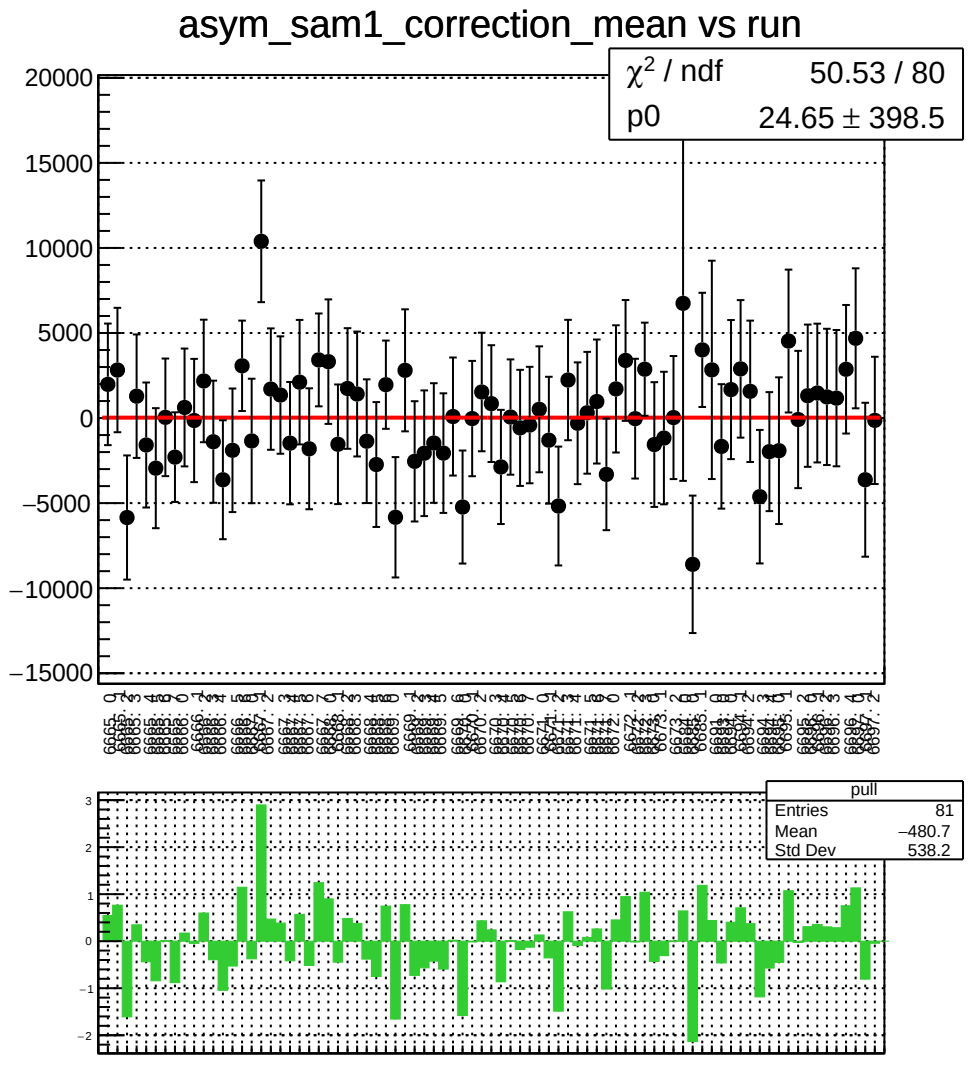

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

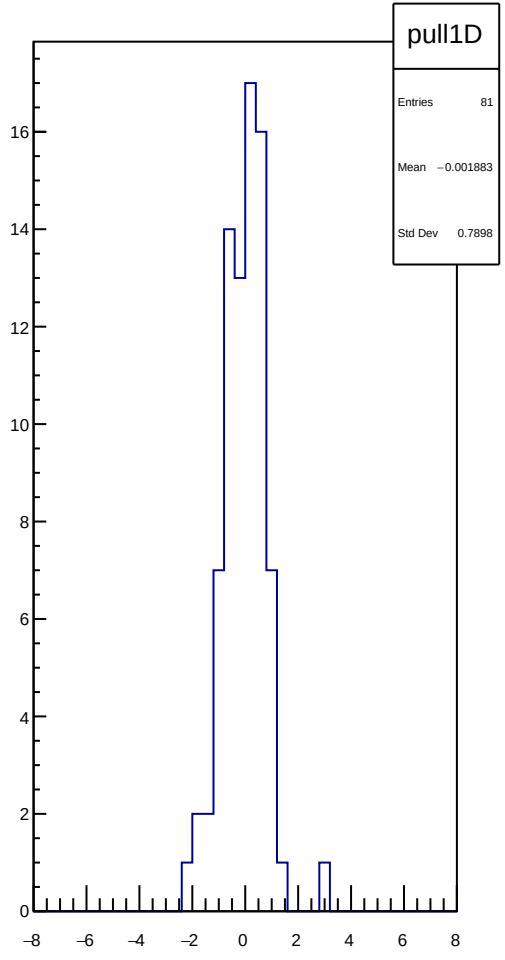

yield_sam8_rms vs run
χ² / ndf 4.461e+05 / 80
p0 0.00431 ± 4.121e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

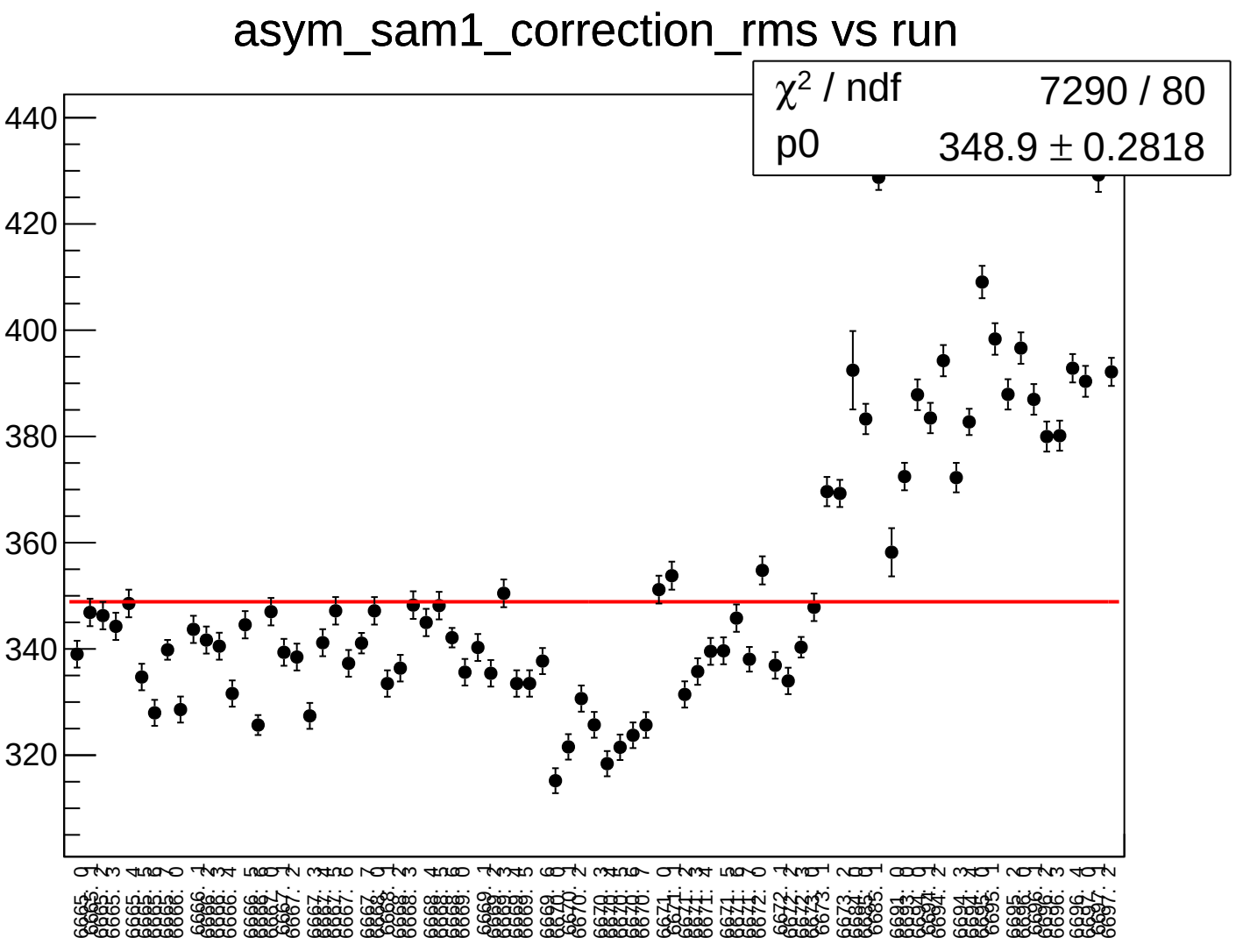

reg_asym_sam1_mean vs run
χ² / ndf 74.03 / 80
p0 −97.7 ± 85.9
pull
Entries 81
Mean −497.5
Std Dev 536.3

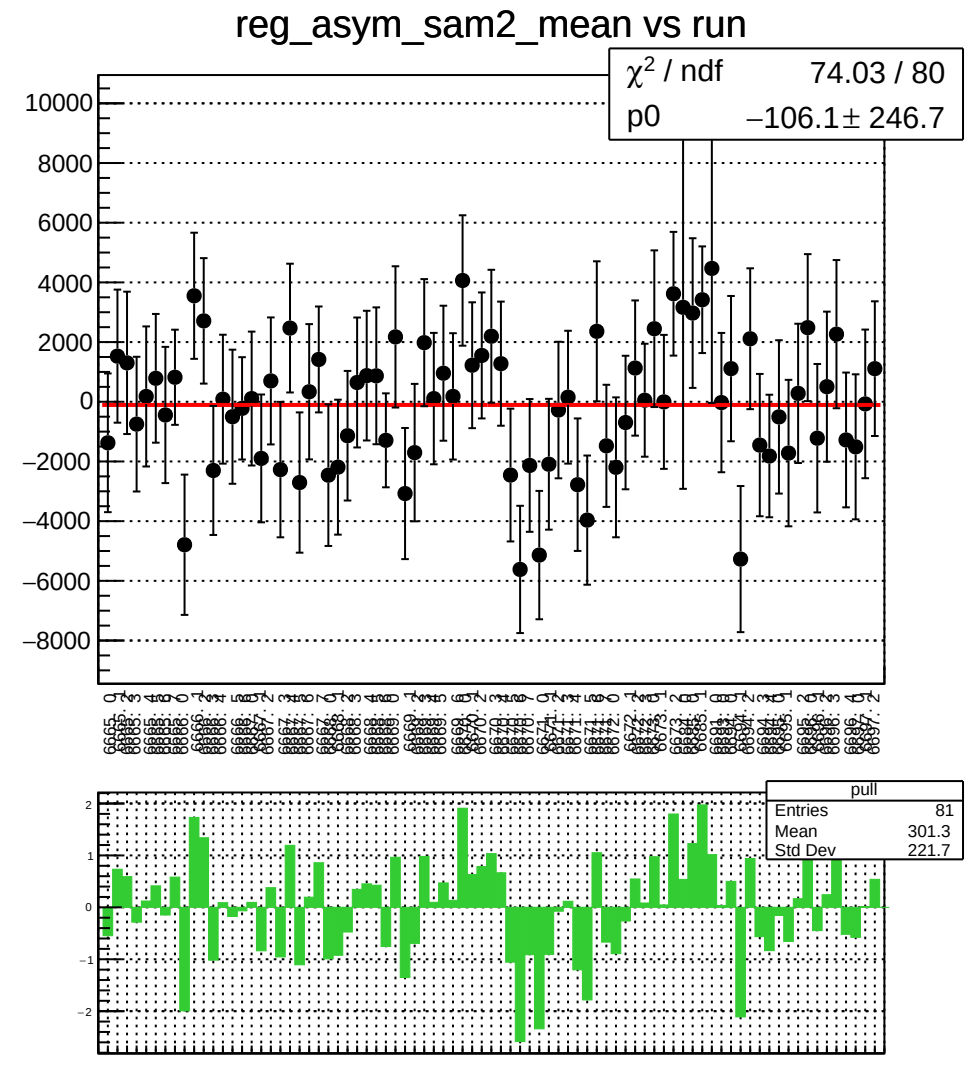

pull1D
Entries 81
Mean 0.005645
Std Dev 0.956

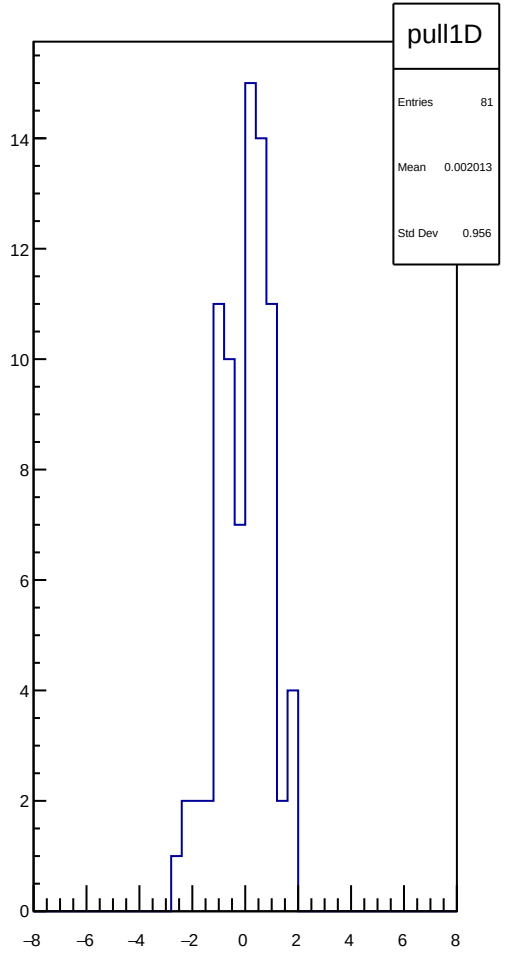

reg_asym_sam1_rms vs run
χ^2 / ndf 3183 / 80
p0 75.29 ± 0.06074
90
85
80
75
70

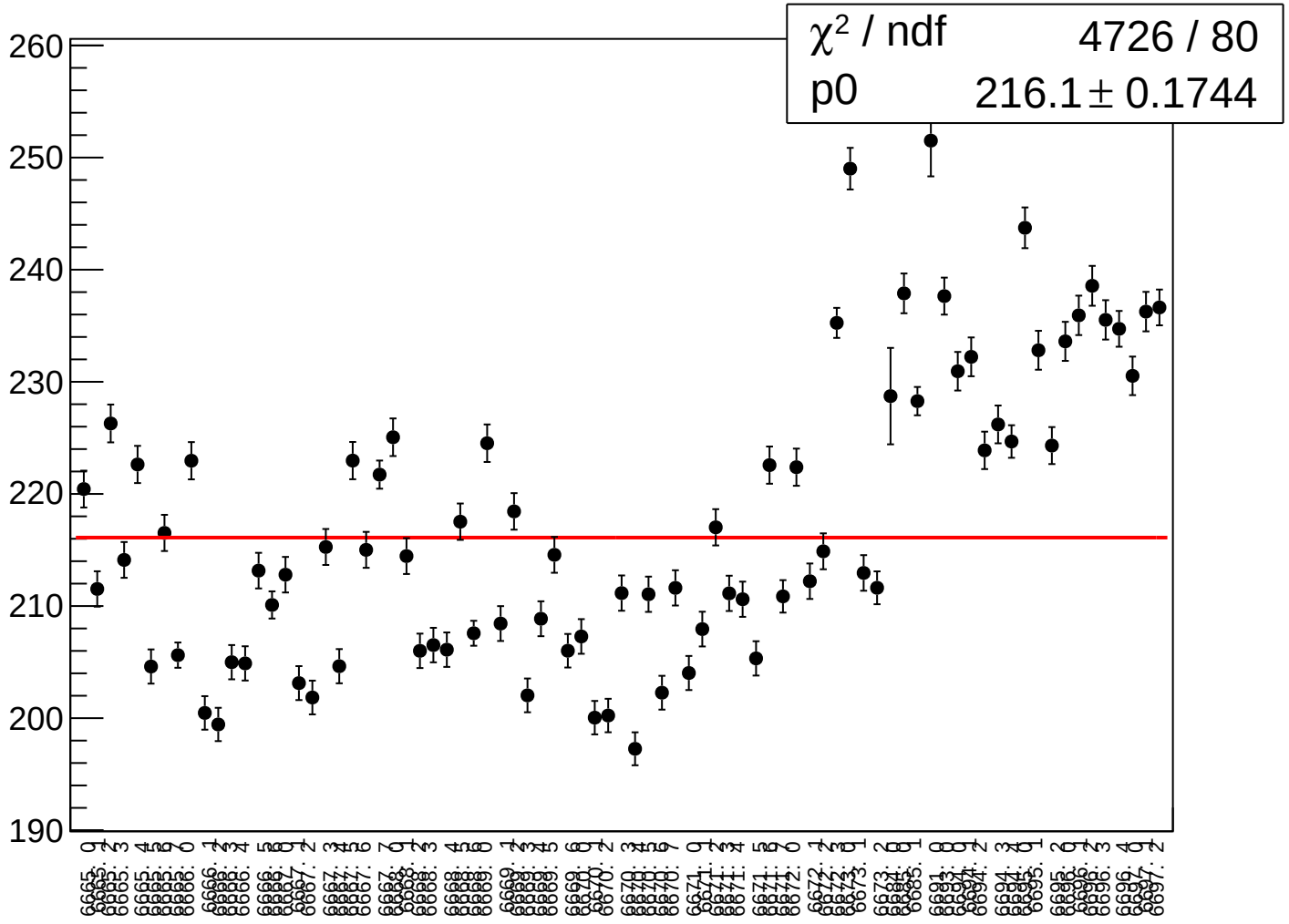

asym_sam1_correction_mean vs run
χ² / ndf 50.53 / 80
p0 24.65 ± 398.5
pull
Entries 81
Mean −480.7
Std Dev 538.2

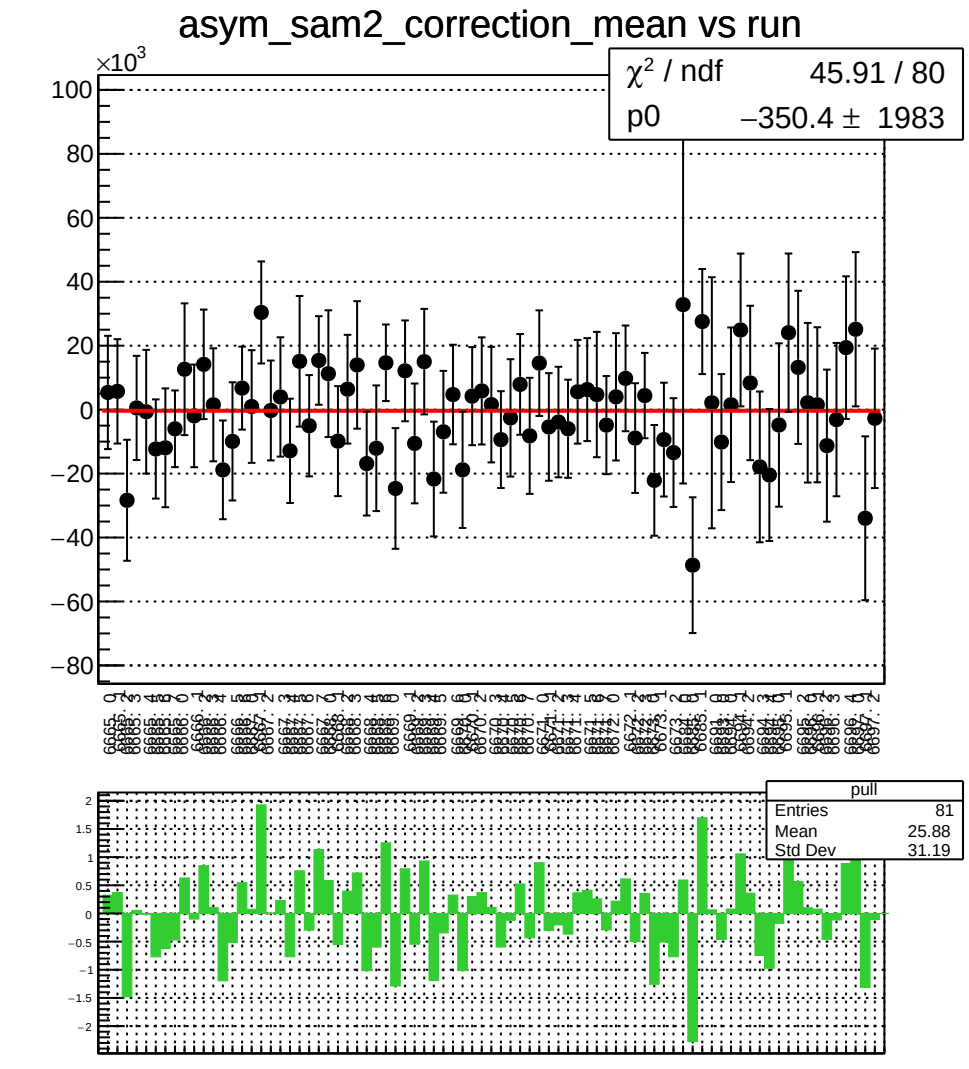

pull1D
Entries 81
Mean −0.001883
Std Dev 0.7898

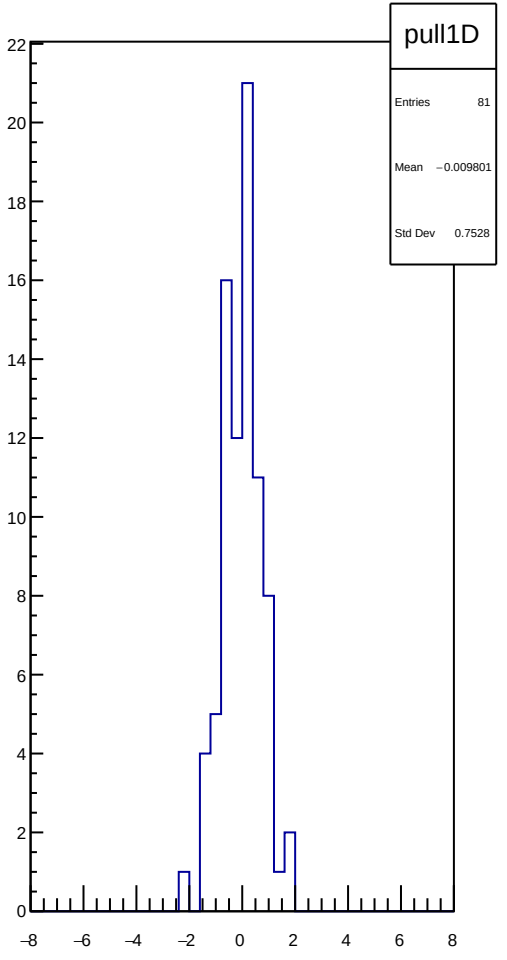

asym_sam1_correction_rms vs run
χ² / ndf 7290 / 80
p0 348.9 ± 0.2818
440
420
400
380
360
340
320

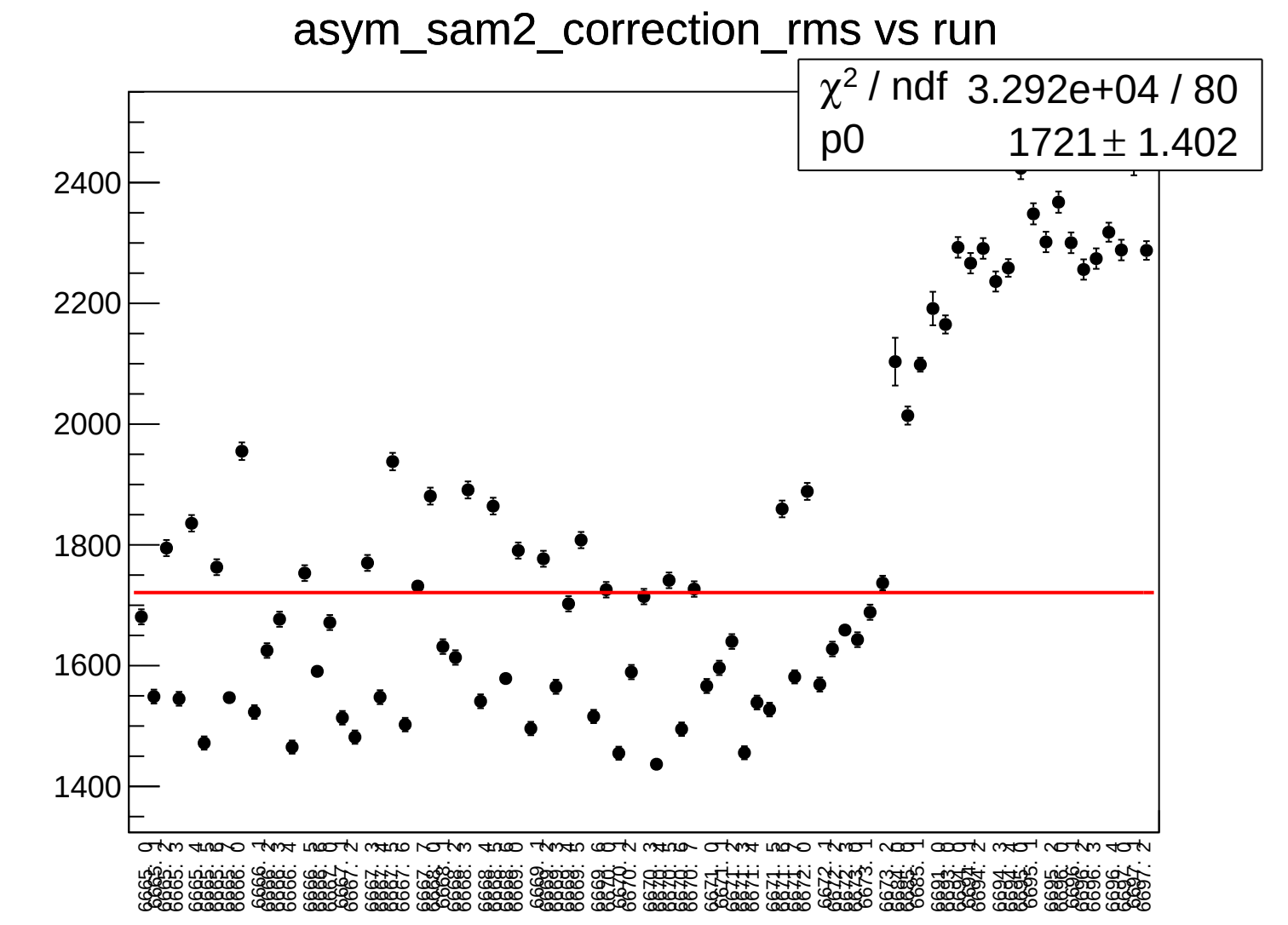

reg_asym_sam2_mean vs run
χ² / ndf 74.03 / 80
p0 −106.1± 246.7
pull
Entries 81
Mean 301.3
Std Dev 221.7

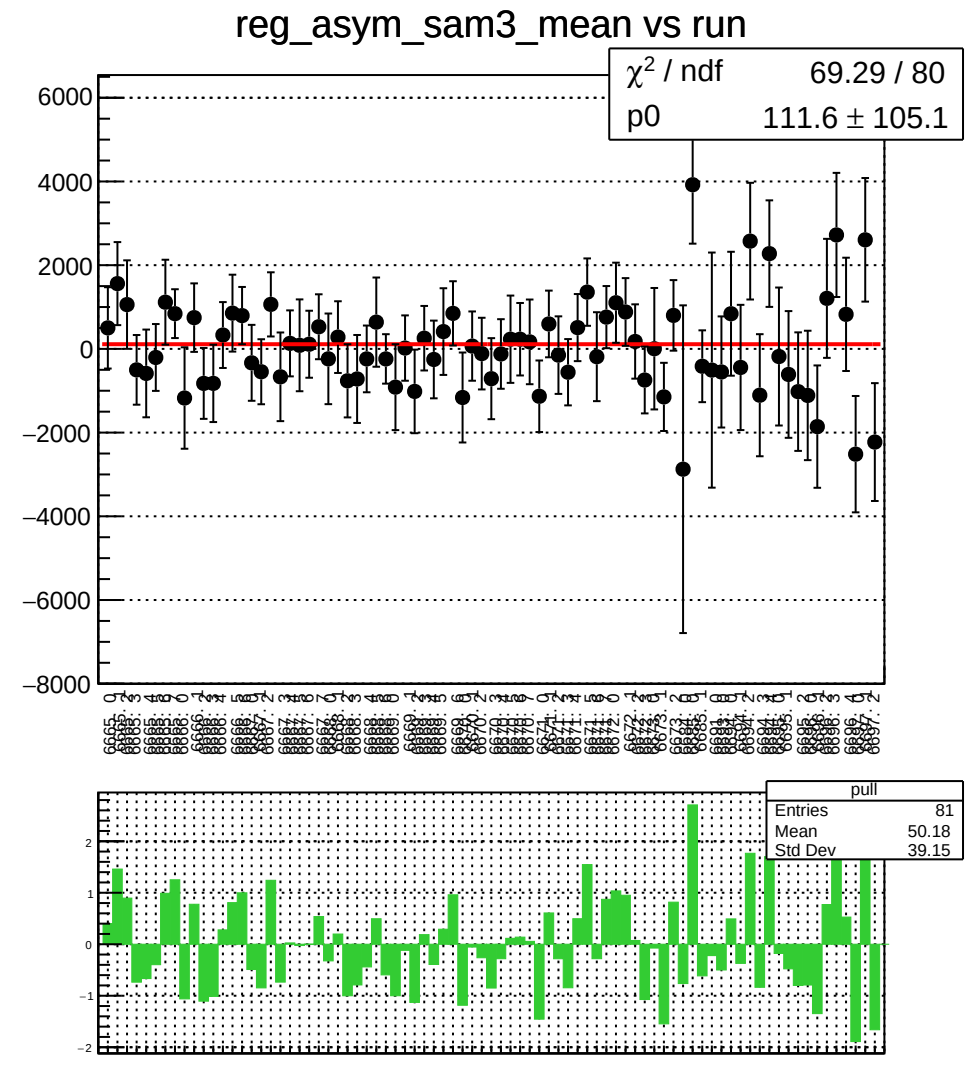

pull1D
Entries 81
Mean 0.002013
Std Dev 0.956

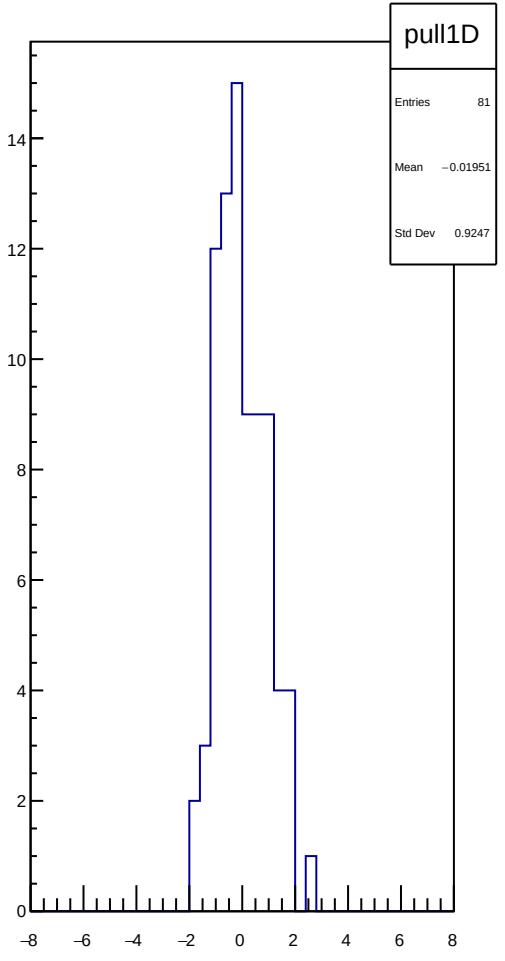

reg_asym_sam2_rms vs run
χ² / ndf 4726 / 80
p0 216.1 ± 0.1744
260
250
240
230
220
210
200
190

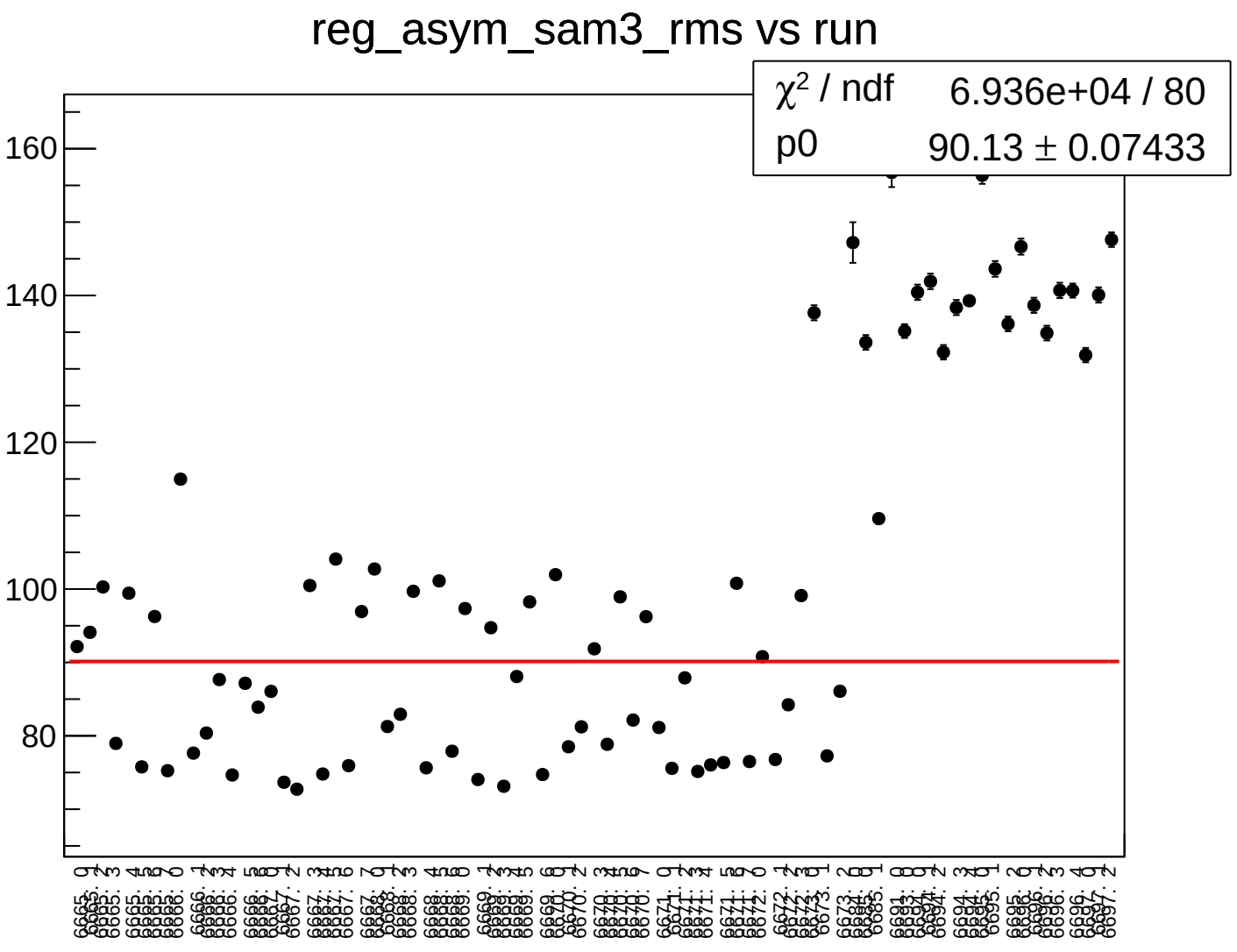

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 45.91 / 80
p0 −350.4 ± 1983
pull
Entries 81
Mean 25.88
Std Dev 31.19

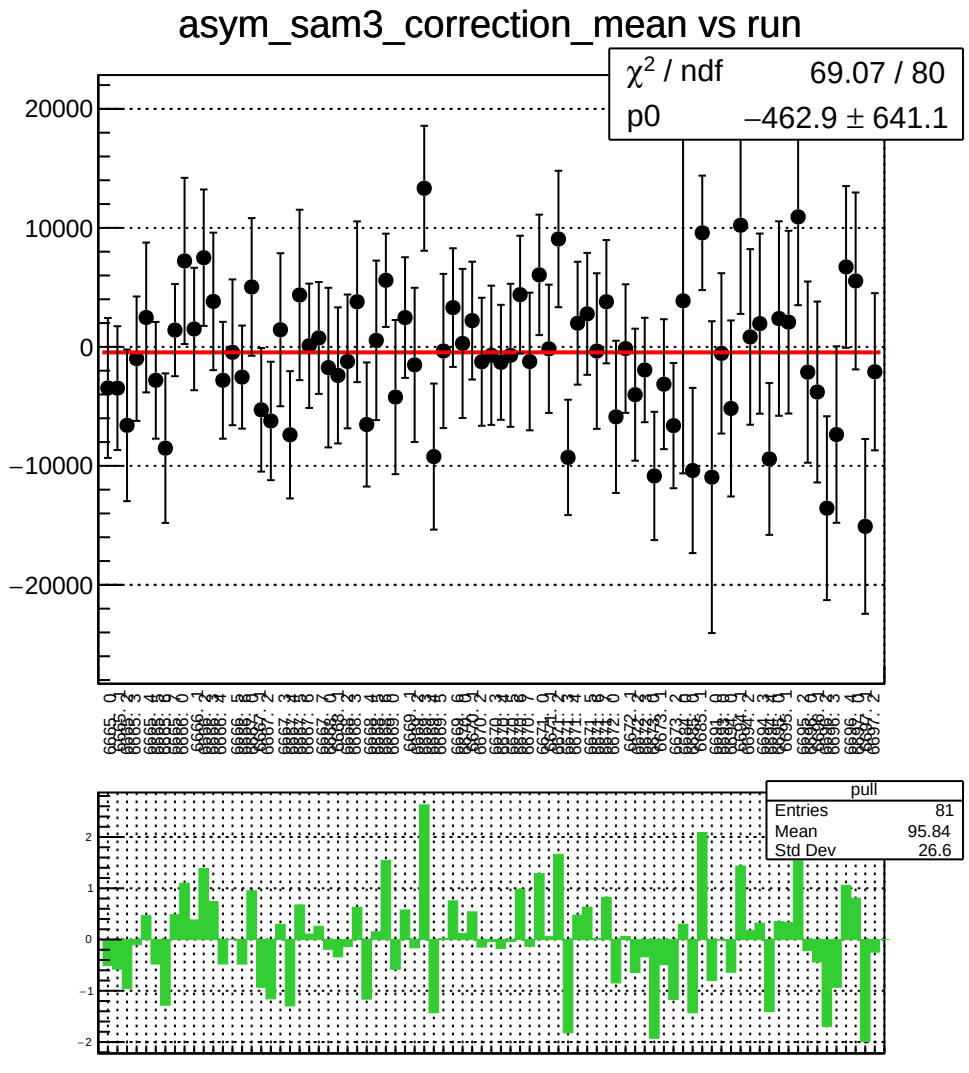

pull1D
Entries 81
Mean −0.009801
Std Dev 0.7528

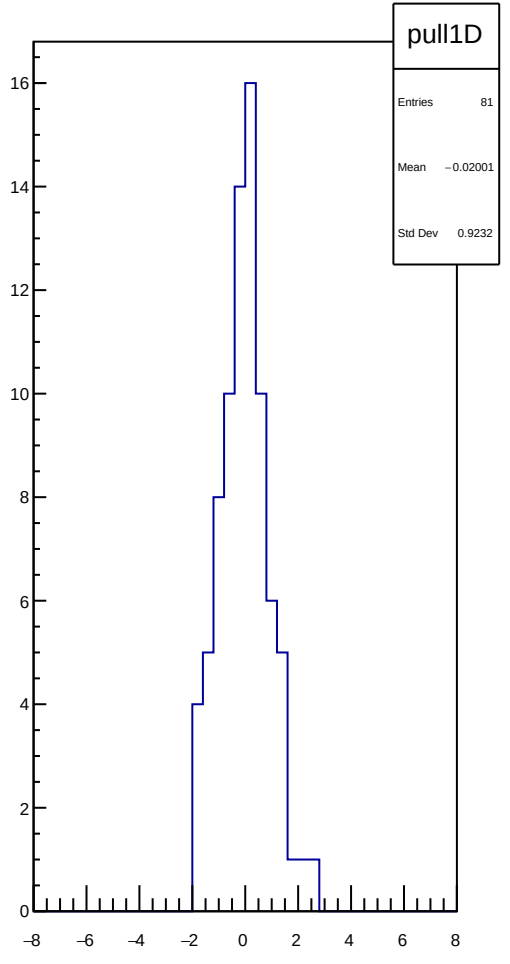

asym_sam2_correction_rms vs run
χ² / ndf 3.292e+04 / 80
p0 1721 ± 1.402
2400
2200
2000
1800
1600
1400

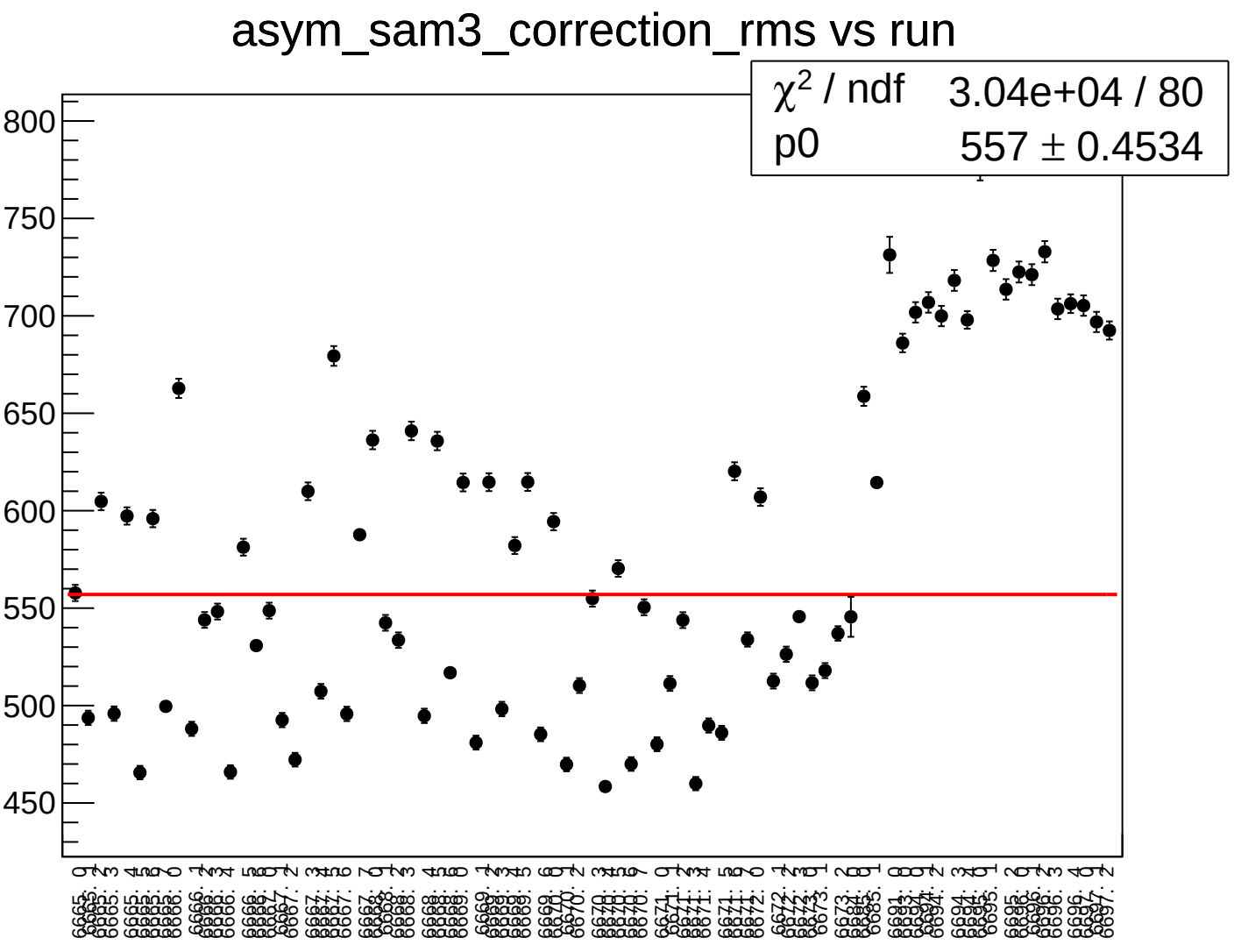

reg_asym_sam3_mean vs run
χ² / ndf 69.29 / 80
p0 111.6 ± 105.1
pull
Entries 81
Mean 50.18
Std Dev 39.15

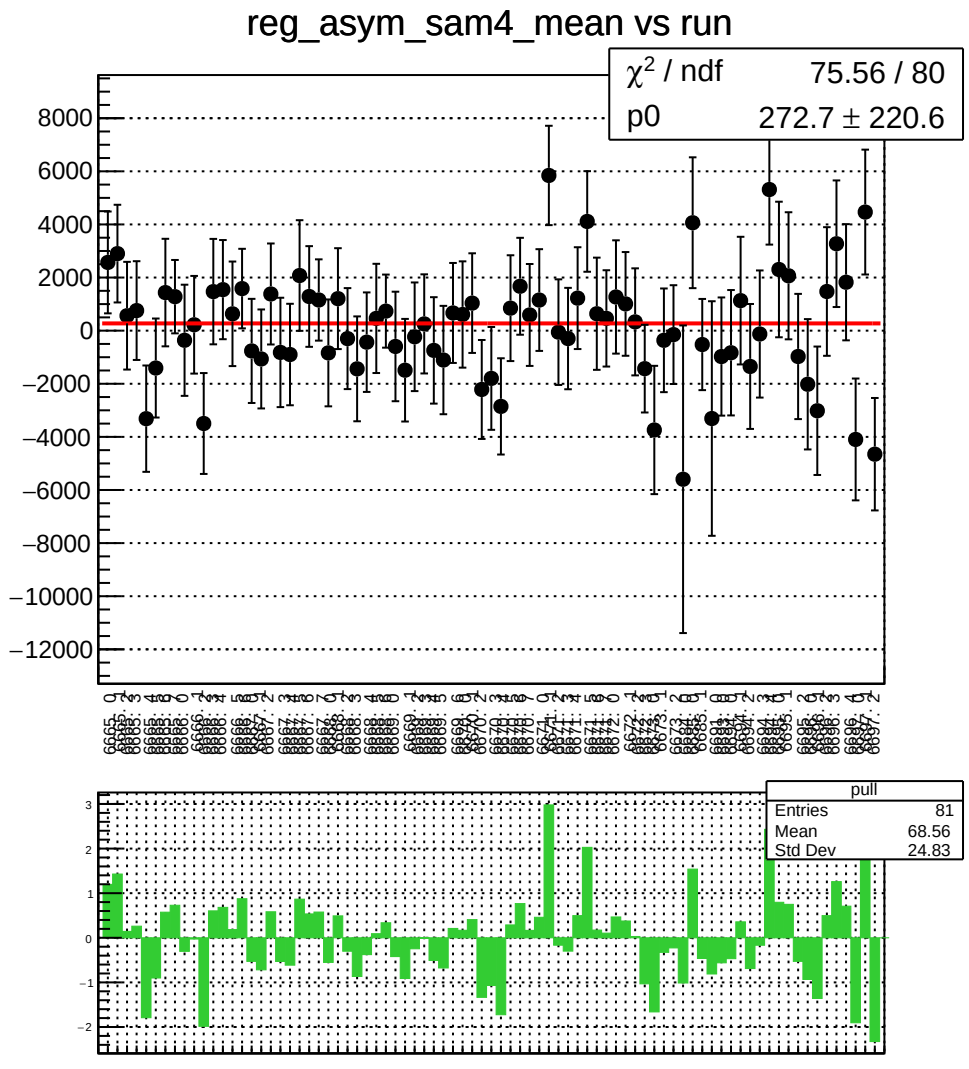

pull1D
Entries 81
Mean −0.01951
Std Dev 0.9247

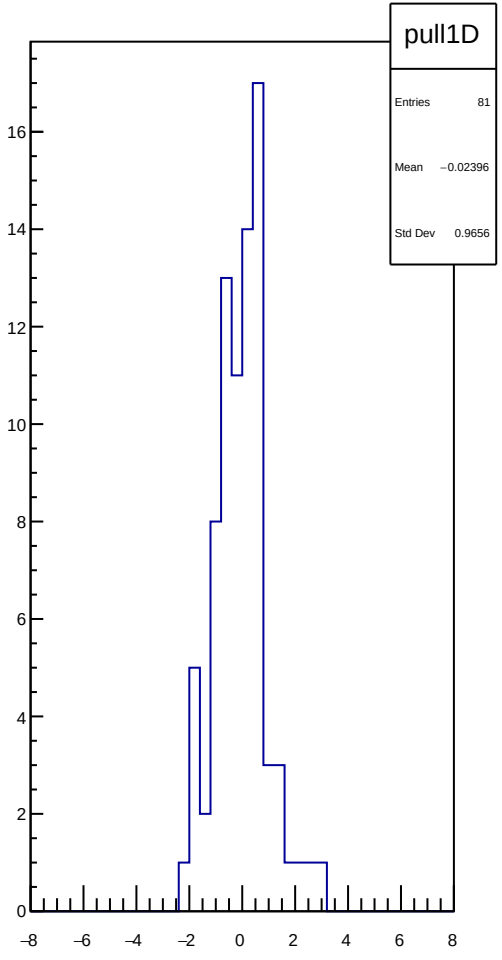

reg_asym_sam3_rms vs run
χ² / ndf 6.936e+04 / 80
p0 90.13 ± 0.07433
160
140
120
100
80

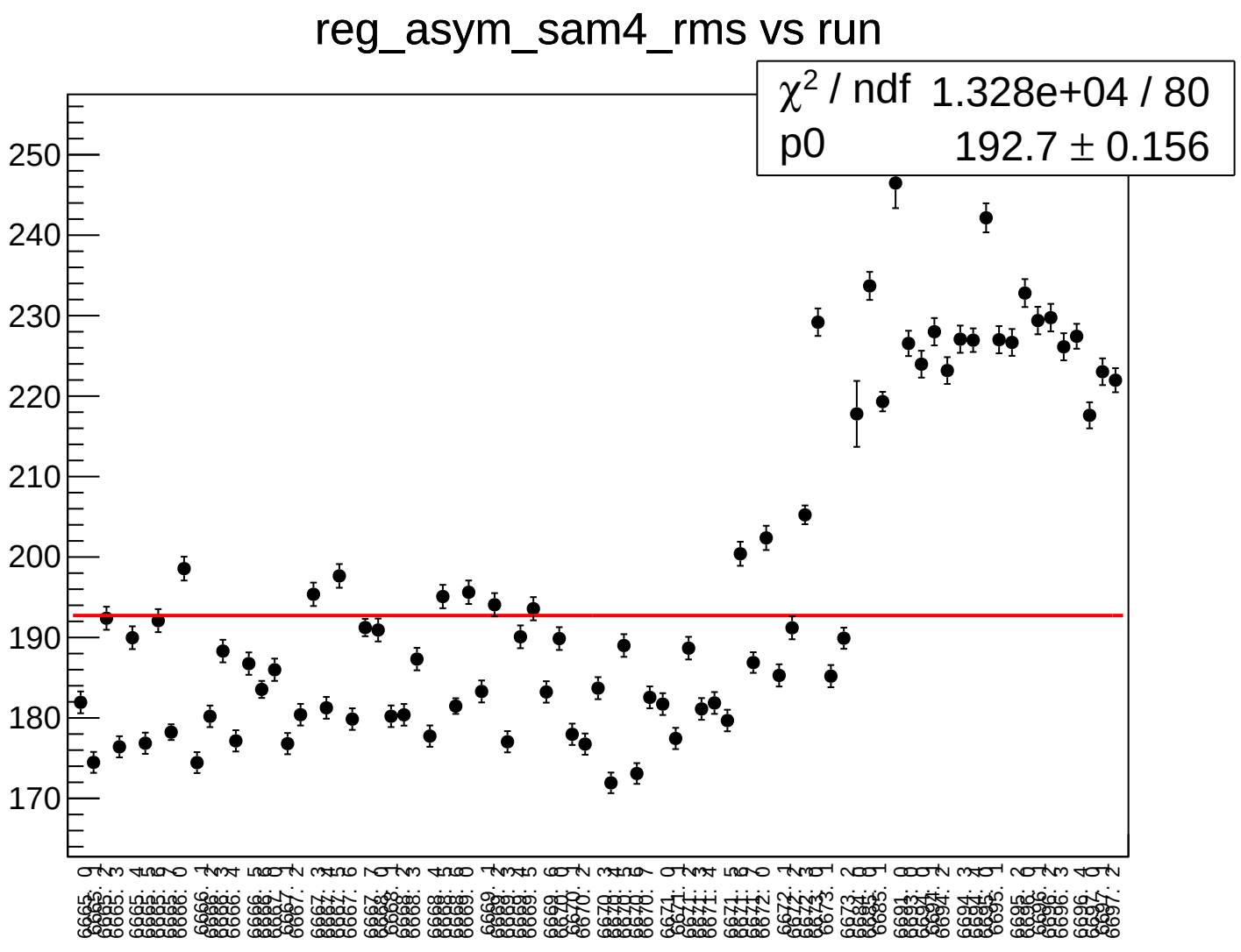

asym_sam3_correction_mean vs run
χ² / ndf 69.07 / 80
p0 −462.9 ± 641.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 95.84
Std Dev 26.6
2
1
0
−1
−2

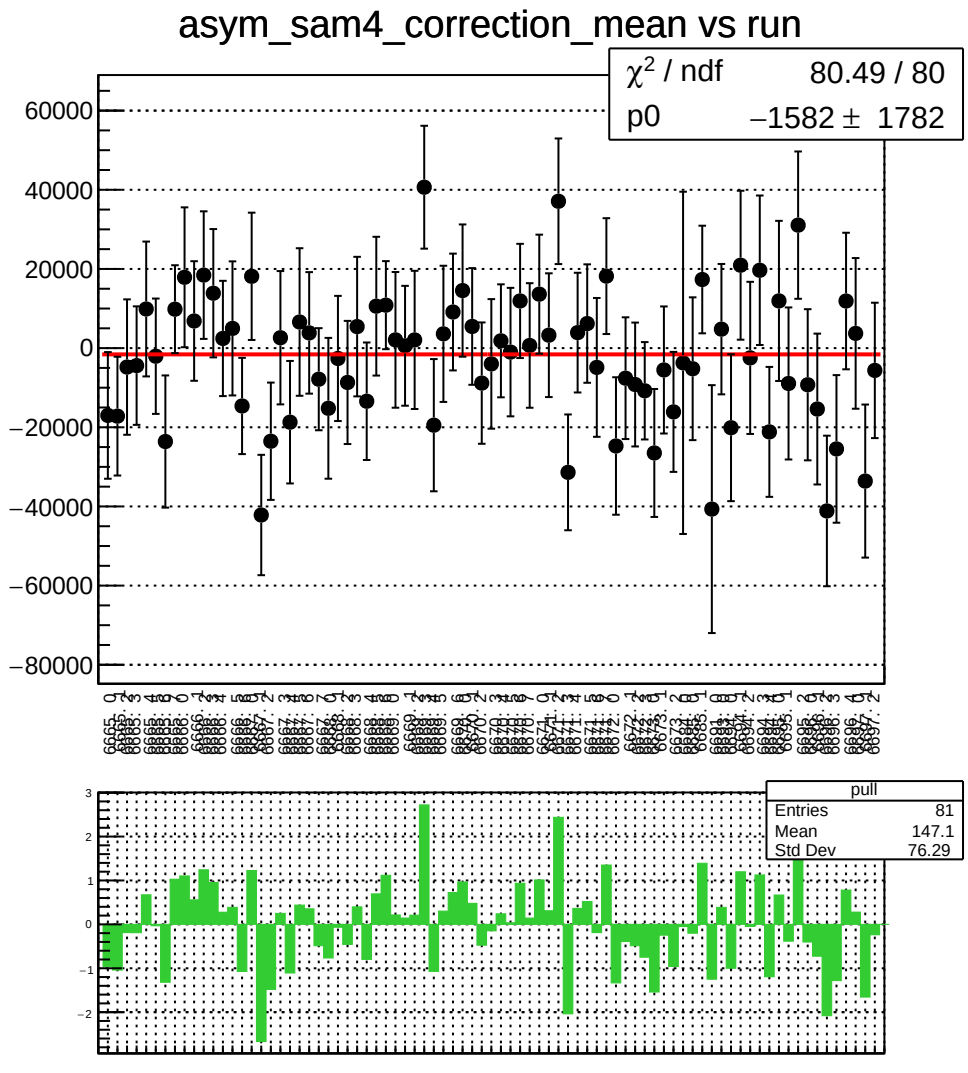

pull1D
Entries 81
Mean −0.02001
Std Dev 0.9232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

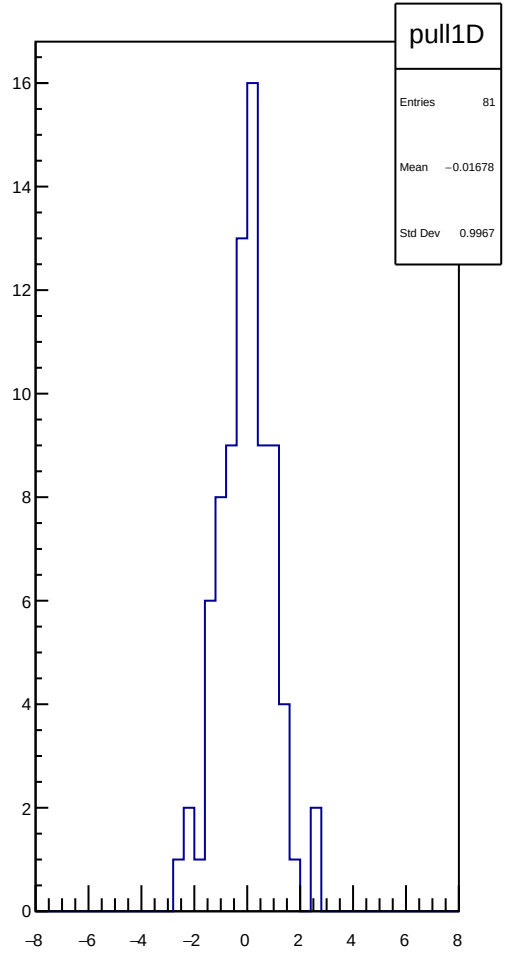

asym_sam3_correction_rms vs run
χ² / ndf 3.04e+04 / 80
p0 557 ± 0.4534
800
750
700
650
600
550
500
450

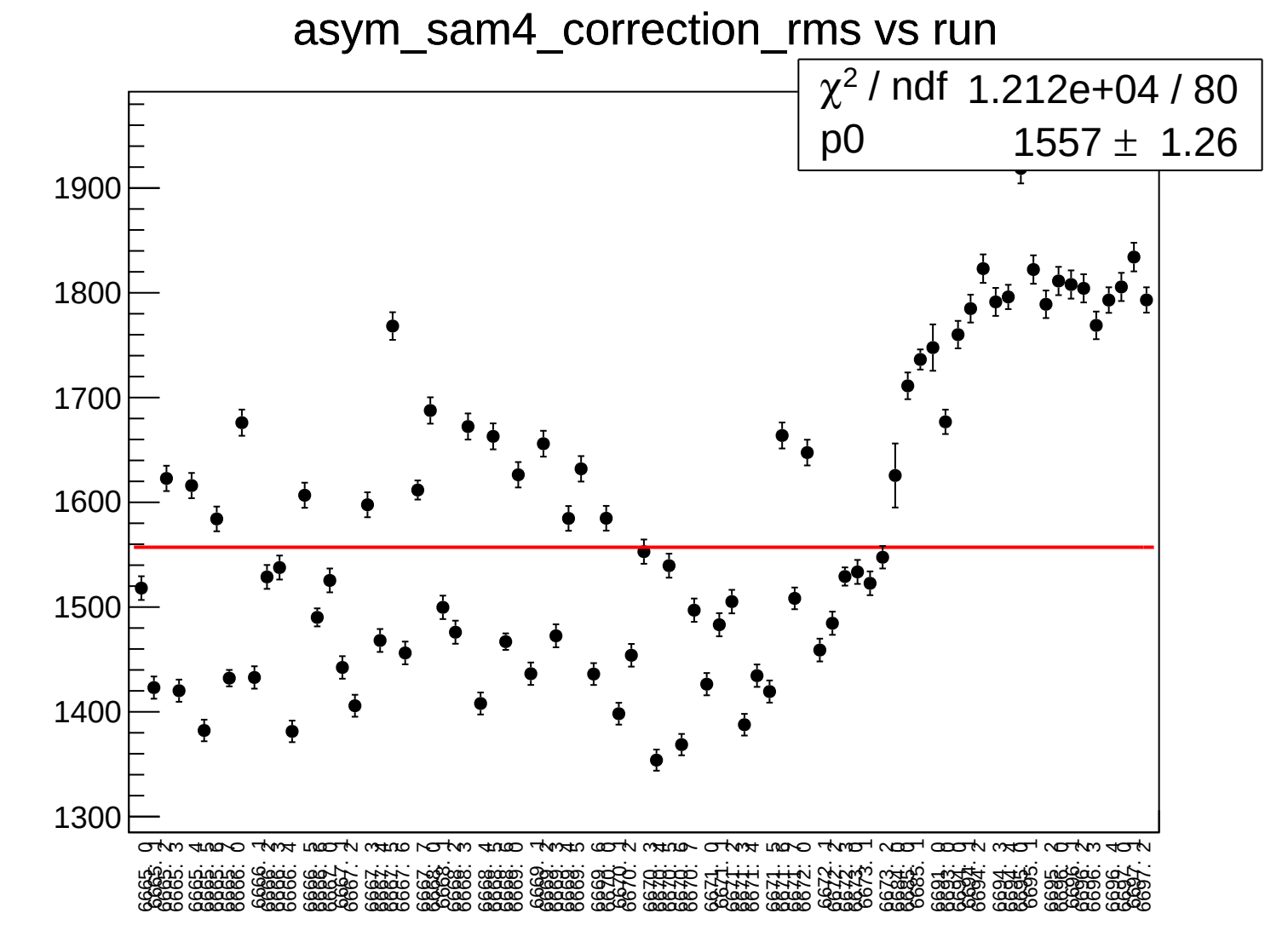

reg_asym_sam4_mean vs run
χ² / ndf 75.56 / 80
p0 272.7 ± 220.6
pull
Entries 81
Mean 68.56
Std Dev 24.83

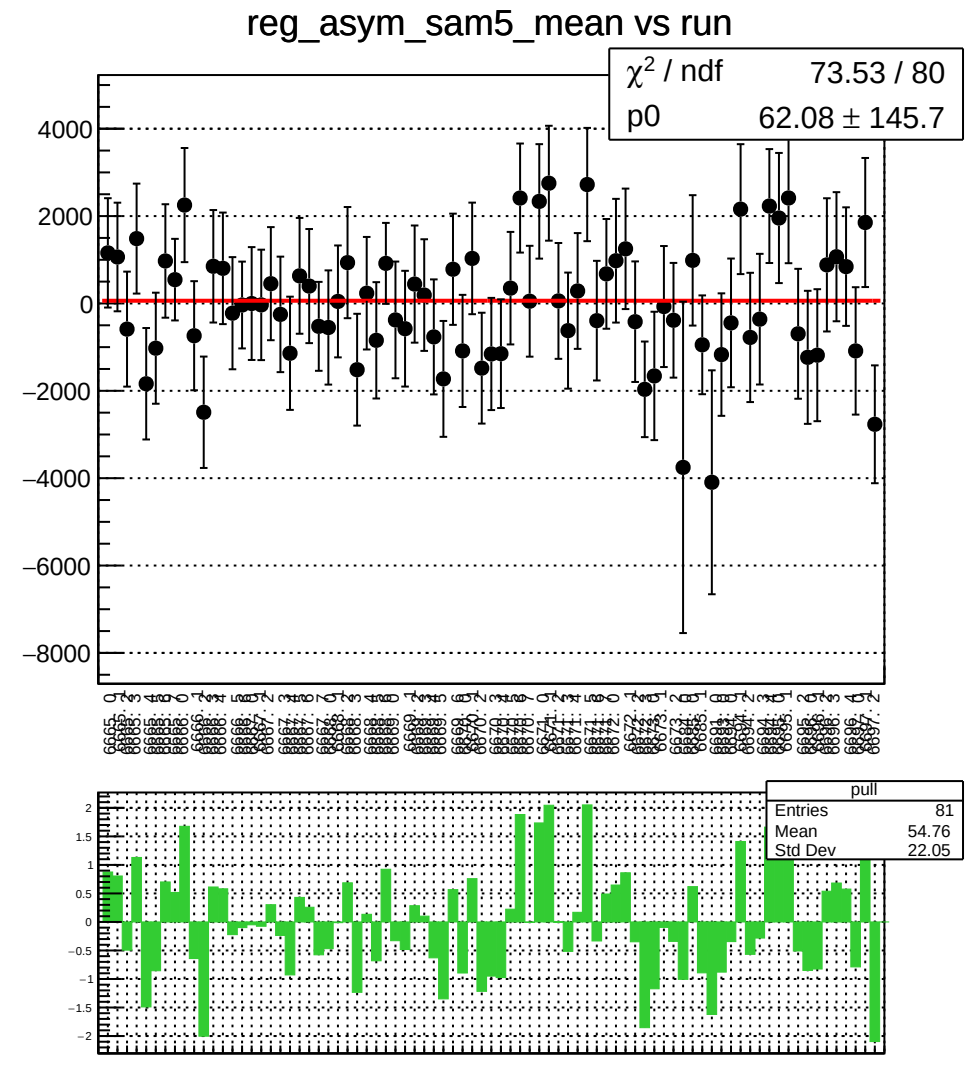

pull1D
Entries 81
Mean −0.02396
Std Dev 0.9656

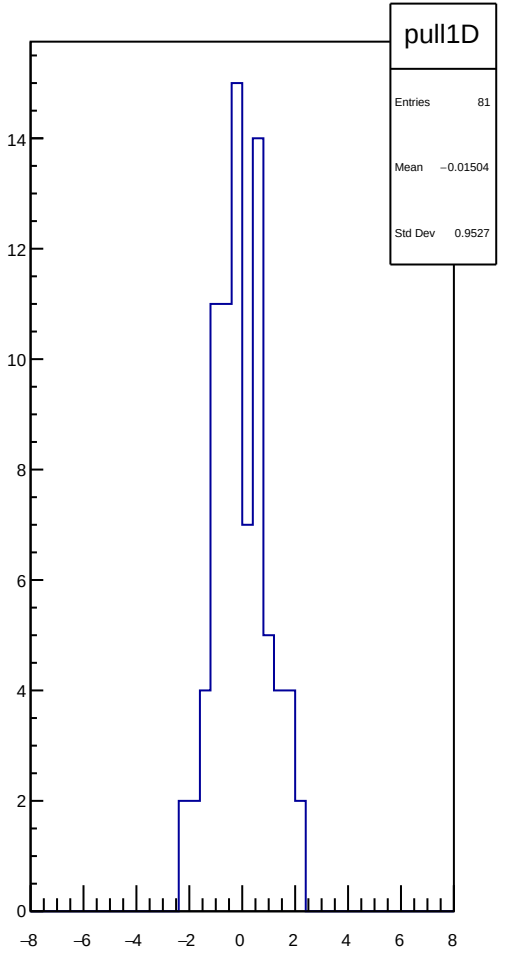

reg_asym_sam4_rms vs run
χ² / ndf 1.328e+04 / 80
p0 192.7 ± 0.156
250
240
230
220
210
200
190
180
170

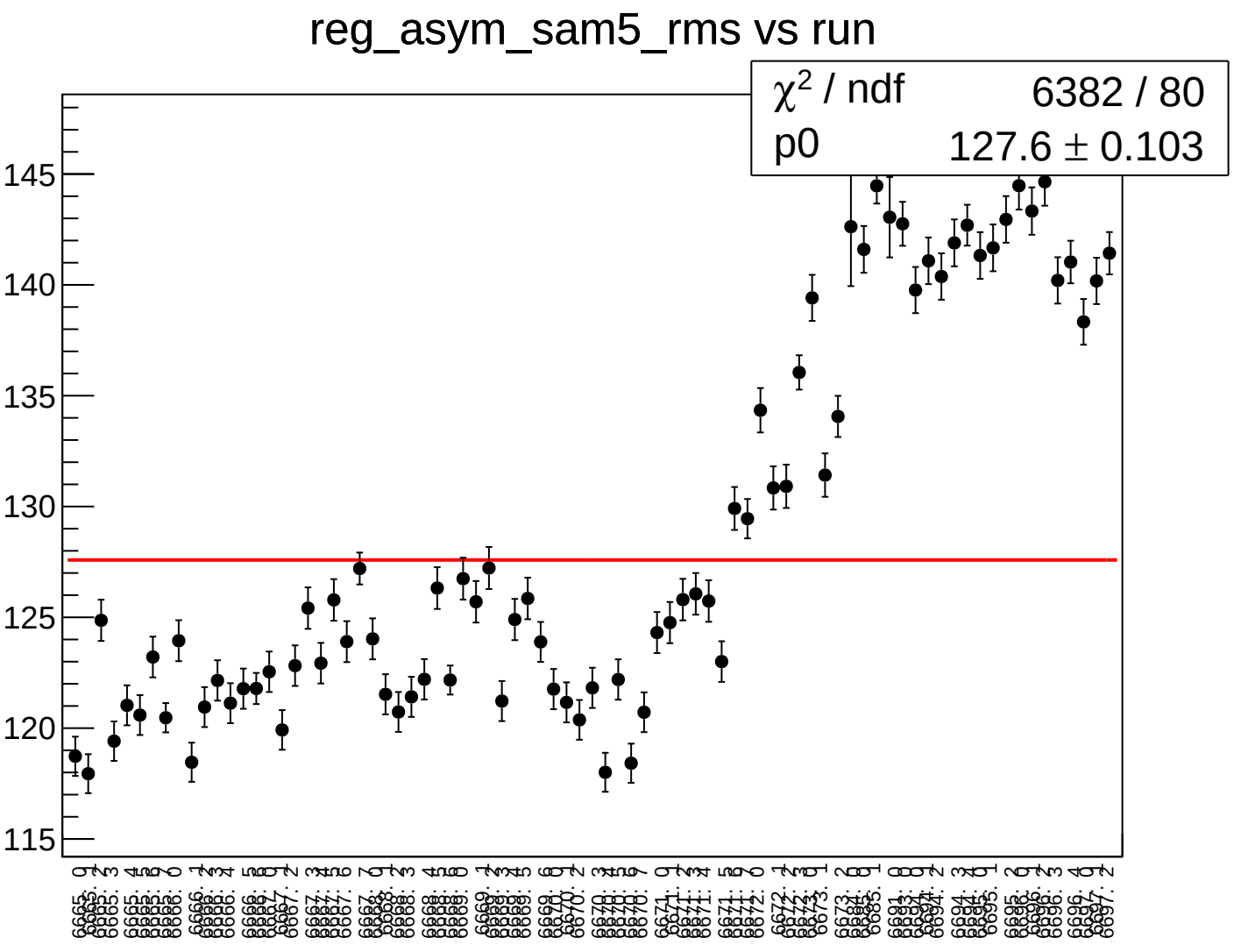

asym_sam4_correction_mean vs run
χ² / ndf 80.49 / 80
p0 −1582 ± 1782
pull
Entries 81
Mean 147.1
Std Dev 76.29

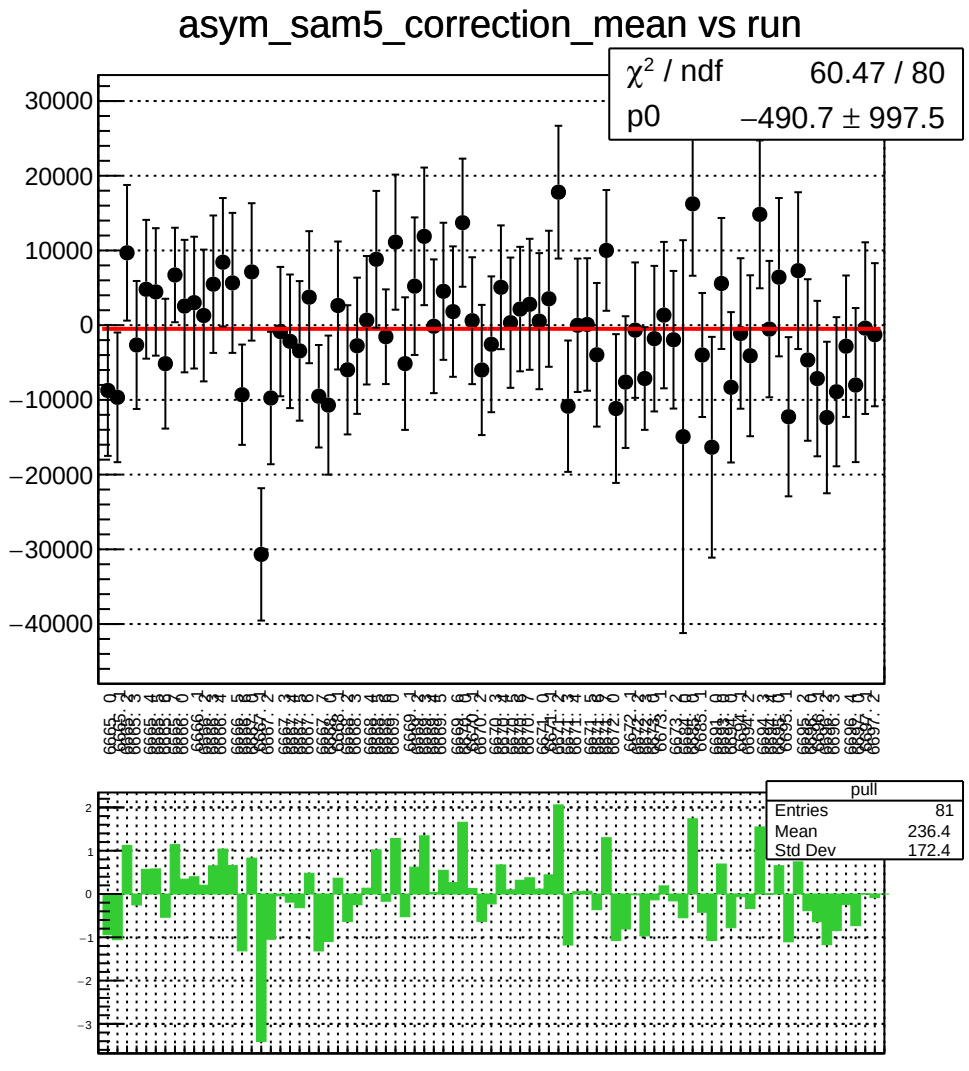

pull1D
Entries 81
Mean −0.01678
Std Dev 0.9967

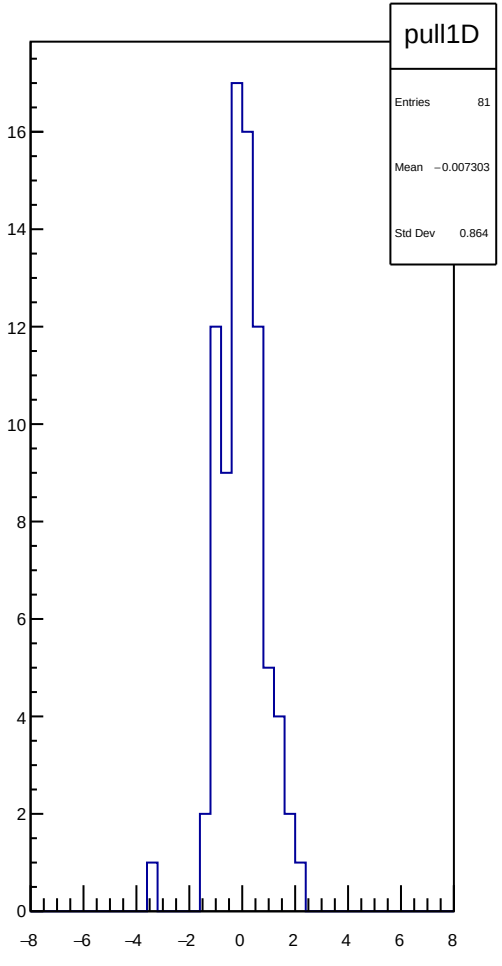

asym_sam4_correction_rms vs run
χ² / ndf 1.212e+04 / 80
p0 1557 ± 1.26
1900
1800
1700
1600
1500
1400
1300

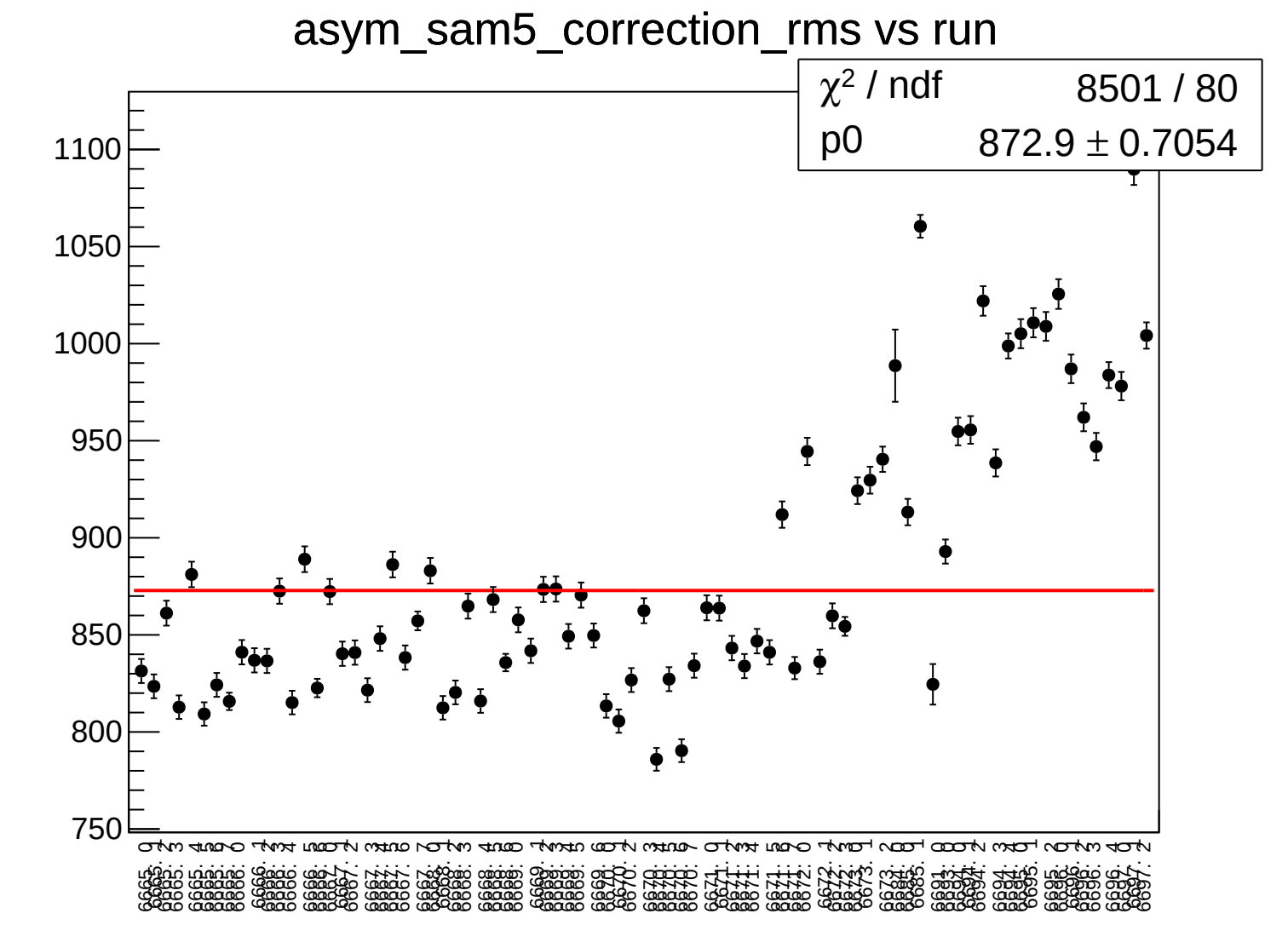

reg_asym_sam5_mean vs run
χ² / ndf 73.53 / 80
p0 62.08 ± 145.7
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 54.76
Std Dev 22.05
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

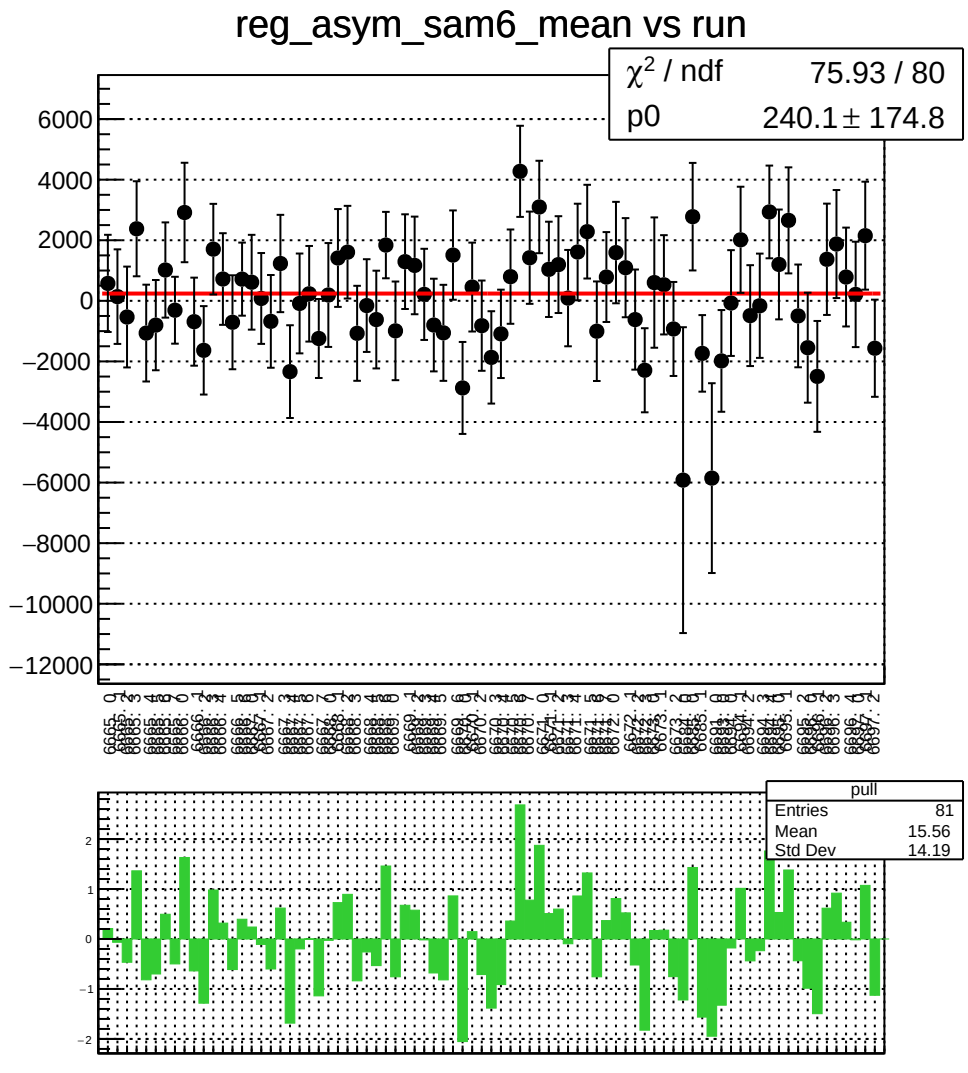

pull1D
Entries 81
Mean −0.01504
Std Dev 0.9527
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

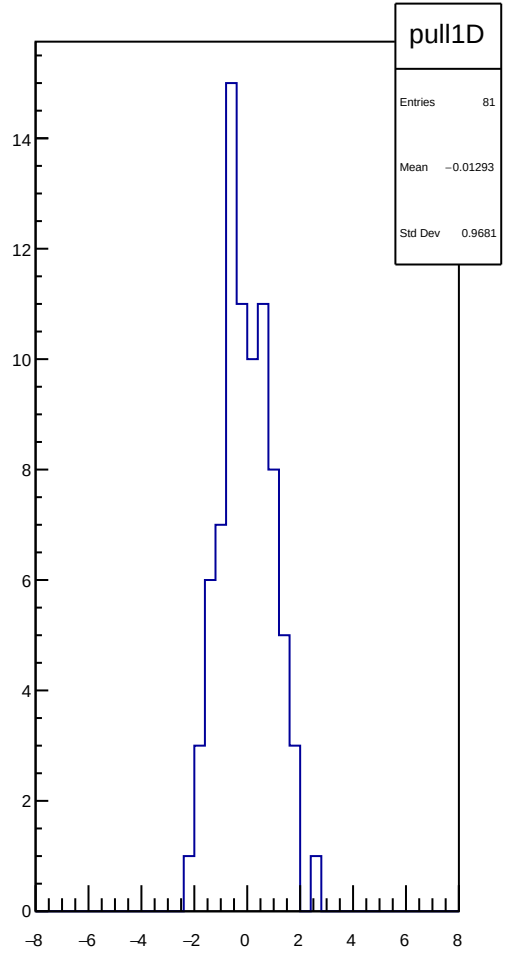

reg_asym_sam5_rms vs run
χ^2 / ndf 6382 / 80
p0 127.6 ± 0.103
145
140
135
130
125
120
115

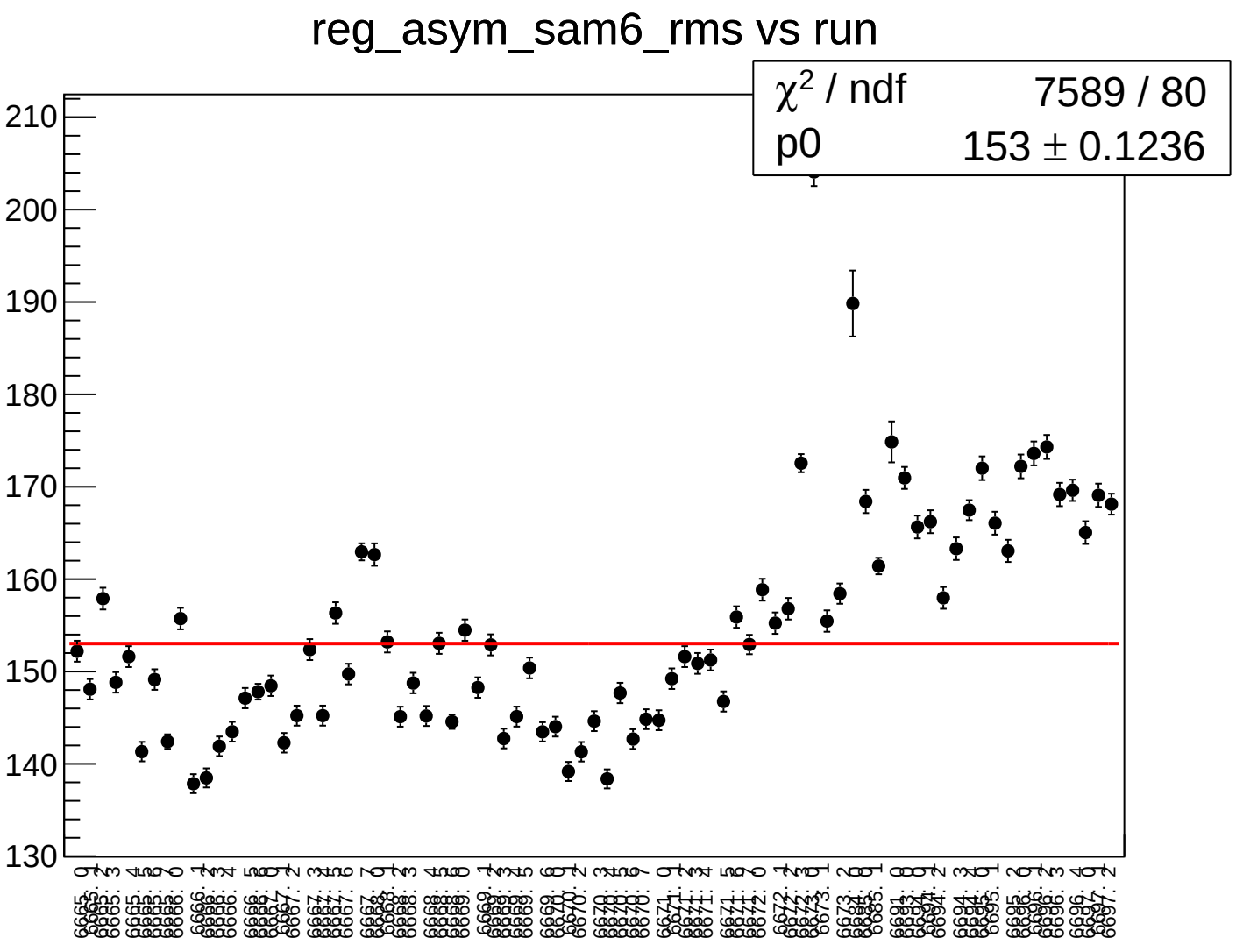

asym_sam5_correction_mean vs run
χ² / ndf 60.47 / 80
p0 −490.7 ± 997.5
pull
Entries 81
Mean 236.4
Std Dev 172.4

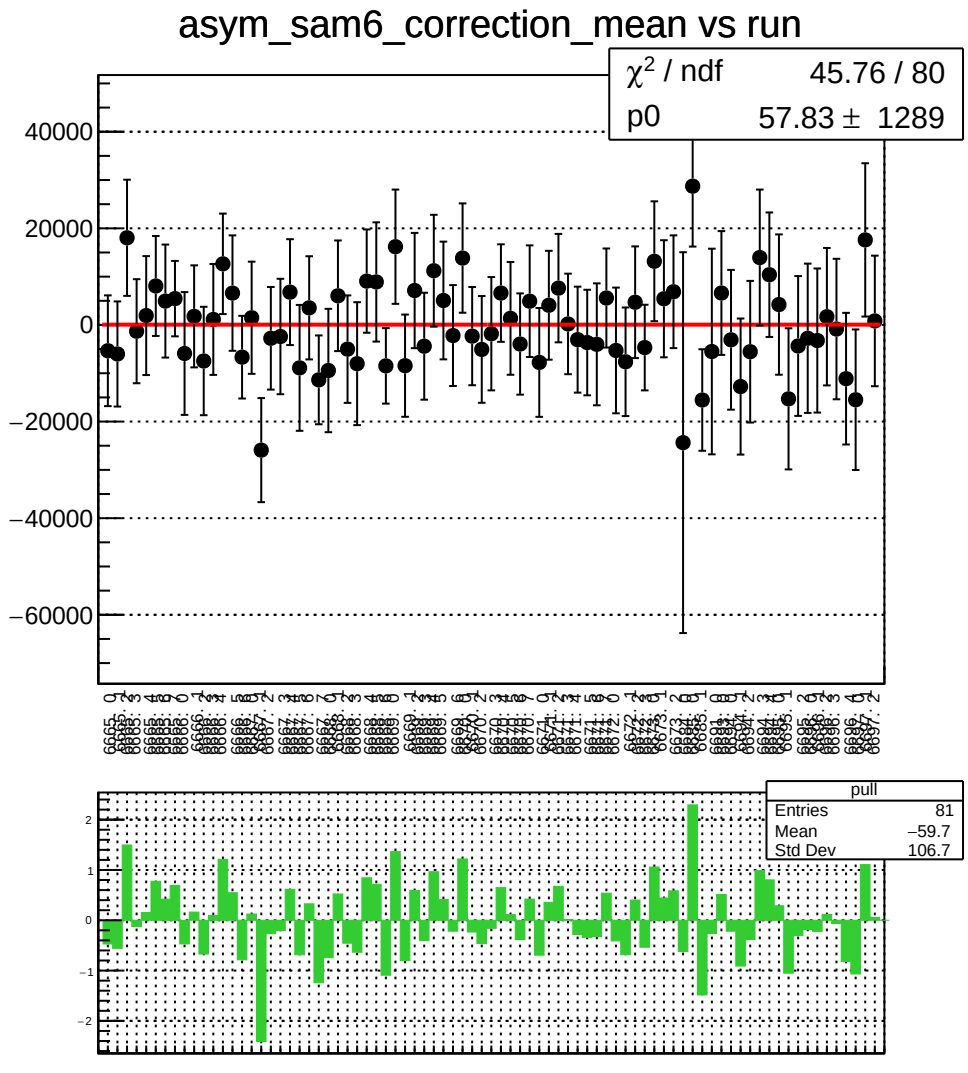

pull1D
Entries 81
Mean −0.007303
Std Dev 0.864

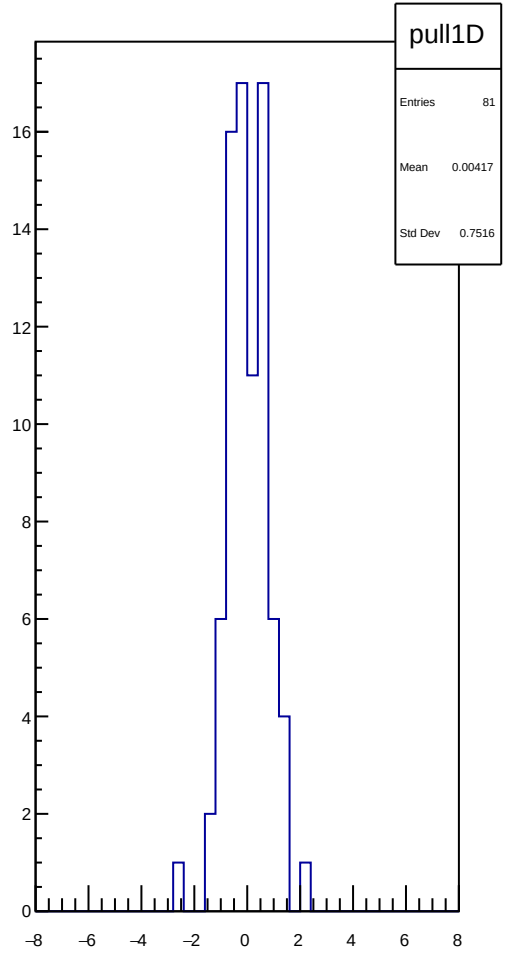

asym_sam5_correction_rms vs run
χ² / ndf 8501 / 80
p0 872.9 ± 0.7054
1100
1050
1000
950
900
850
800
750

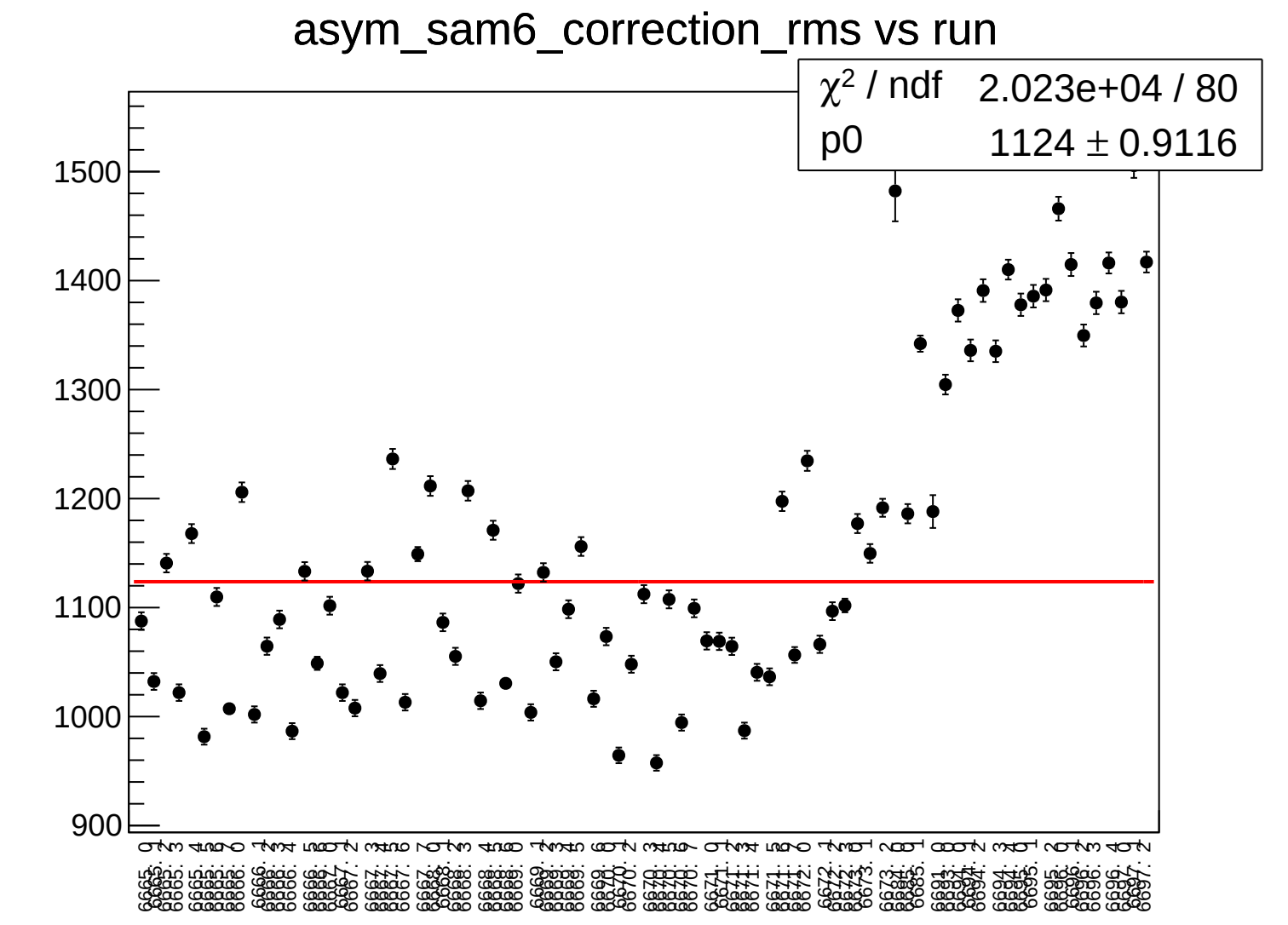

reg_asym_sam6_mean vs run
χ² / ndf 75.93 / 80
p0 240.1 ± 174.8
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
−12000
pull
Entries 81
Mean 15.56
Std Dev 14.19
2
1
0
−1
−2

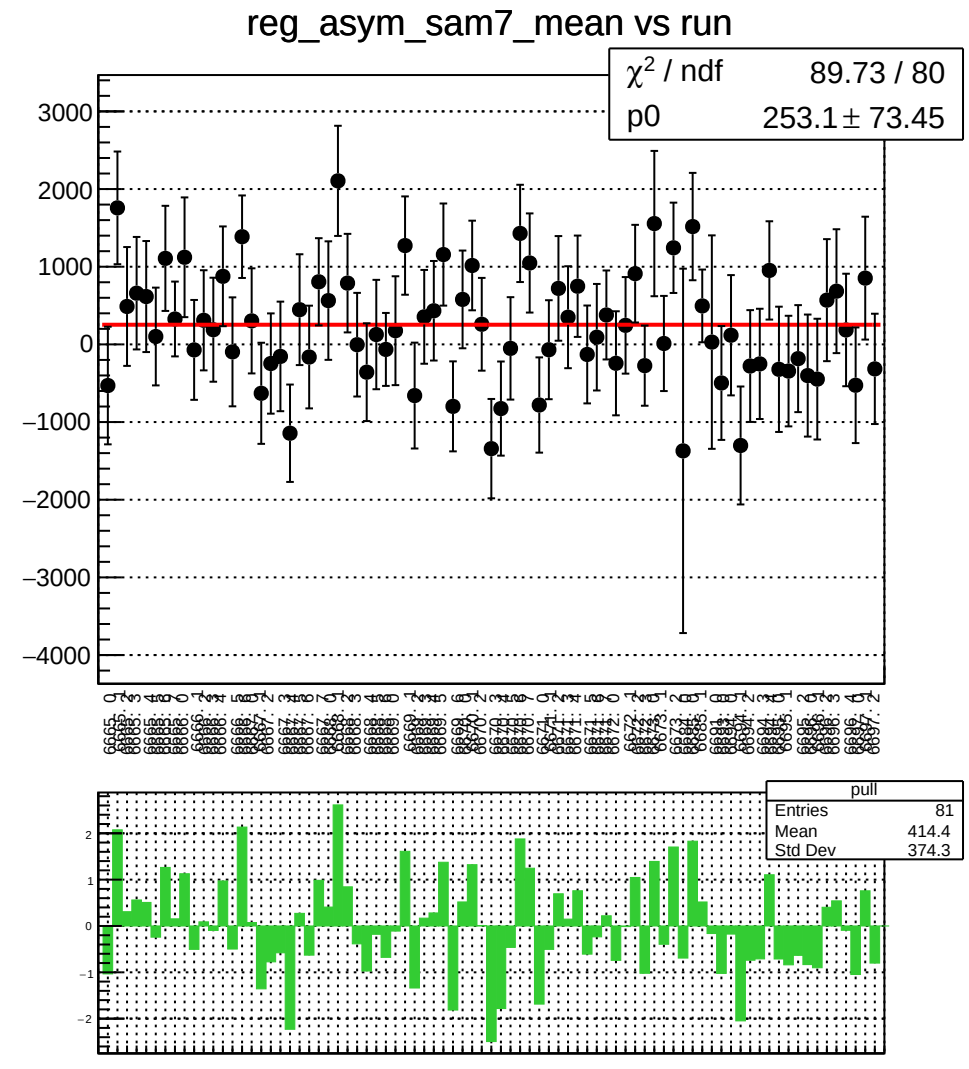

pull1D
Entries 81
Mean −0.01293
Std Dev 0.9681
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

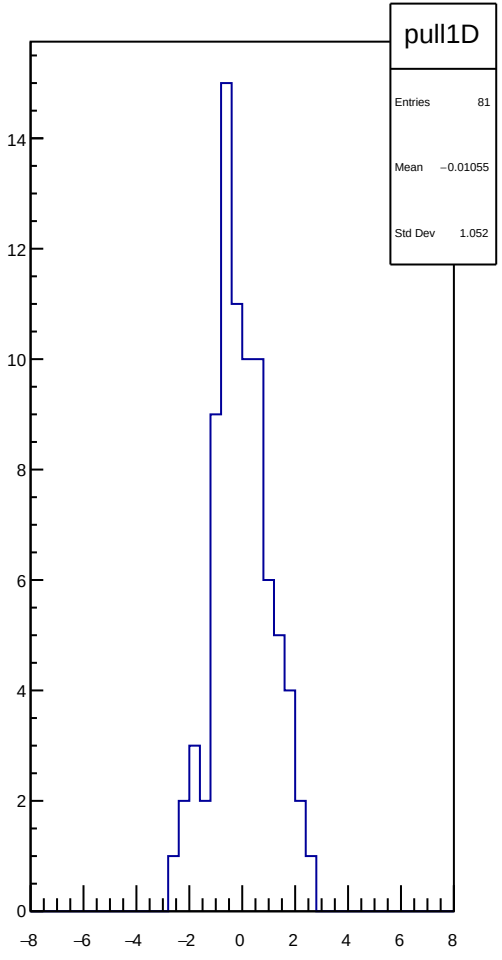

reg_asym_sam6_rms vs run
χ² / ndf 7589 / 80
p0 153 ± 0.1236
210
200
190
180
170
160
150
140
130

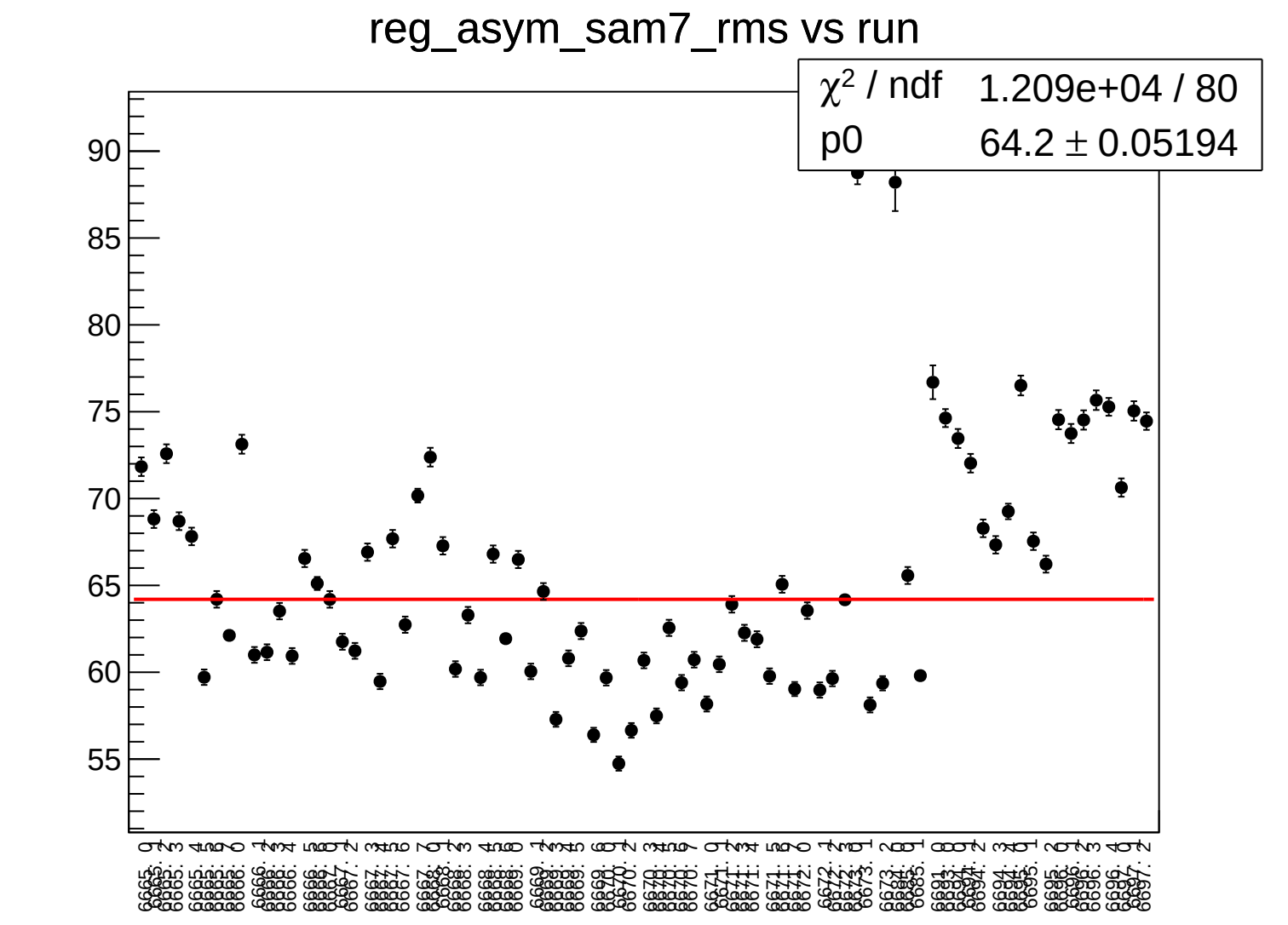

asym_sam6_correction_mean vs run
χ² / ndf 45.76 / 80
p0 57.83 ± 1289
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −59.7
Std Dev 106.7
2
1
0
−1
−2

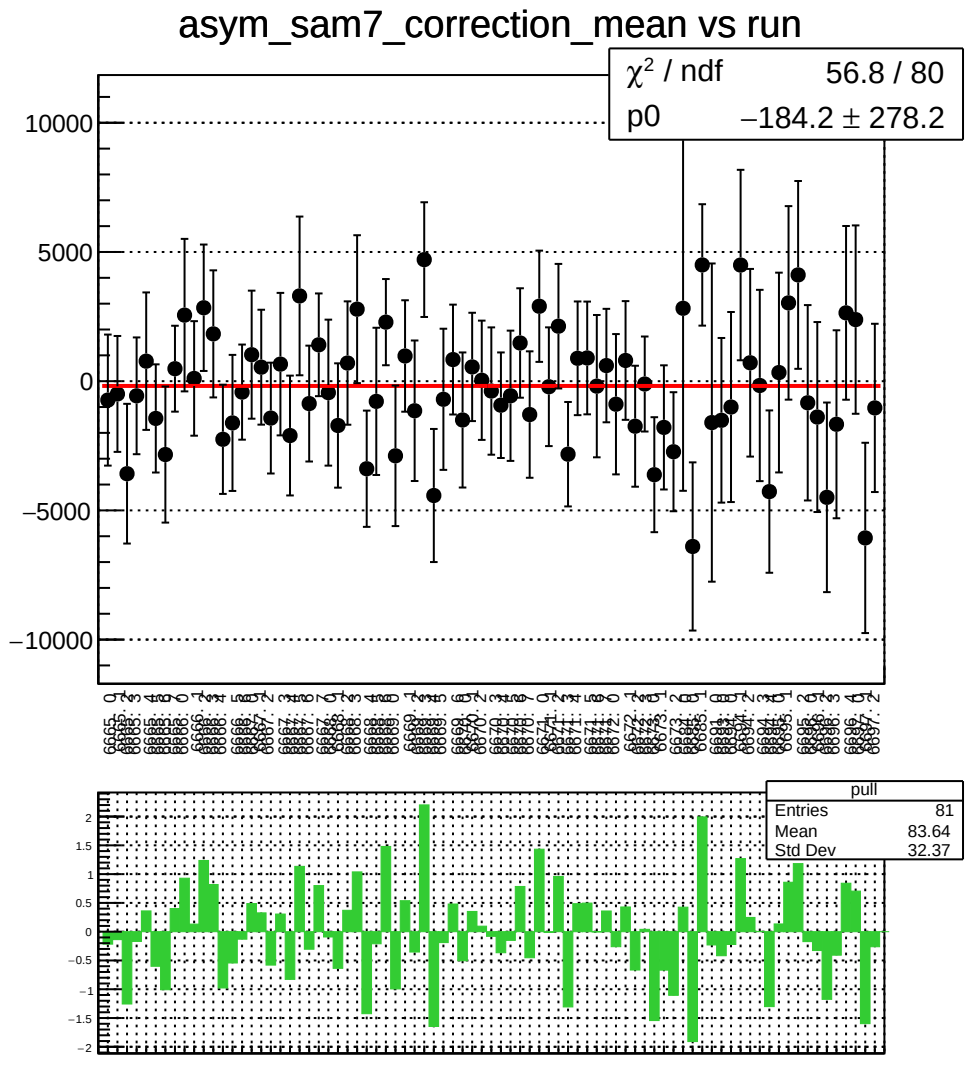

pull1D
Entries 81
Mean 0.00417
Std Dev 0.7516
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

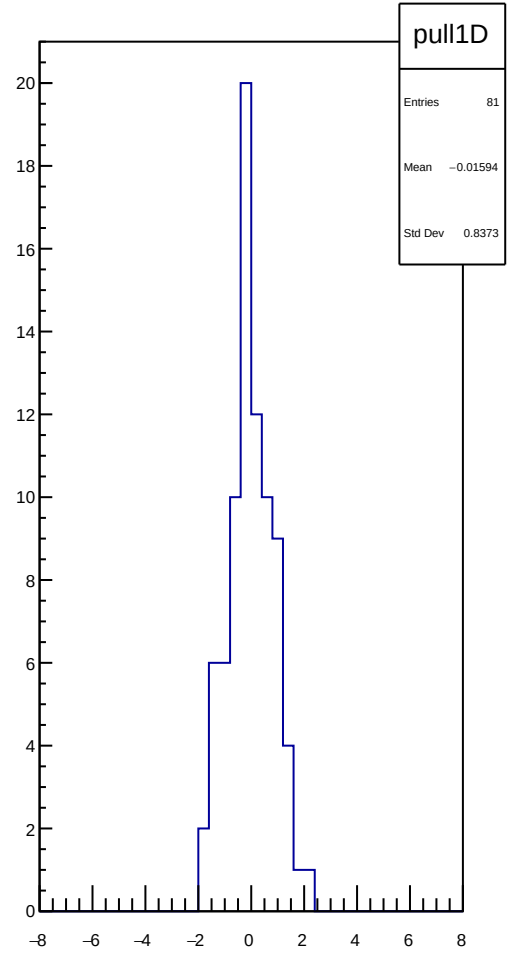

asym_sam6_correction_rms vs run
χ² / ndf 2.023e+04 / 80
p0 1124 ± 0.9116
1500
1400
1300
1200
1100
1000
900

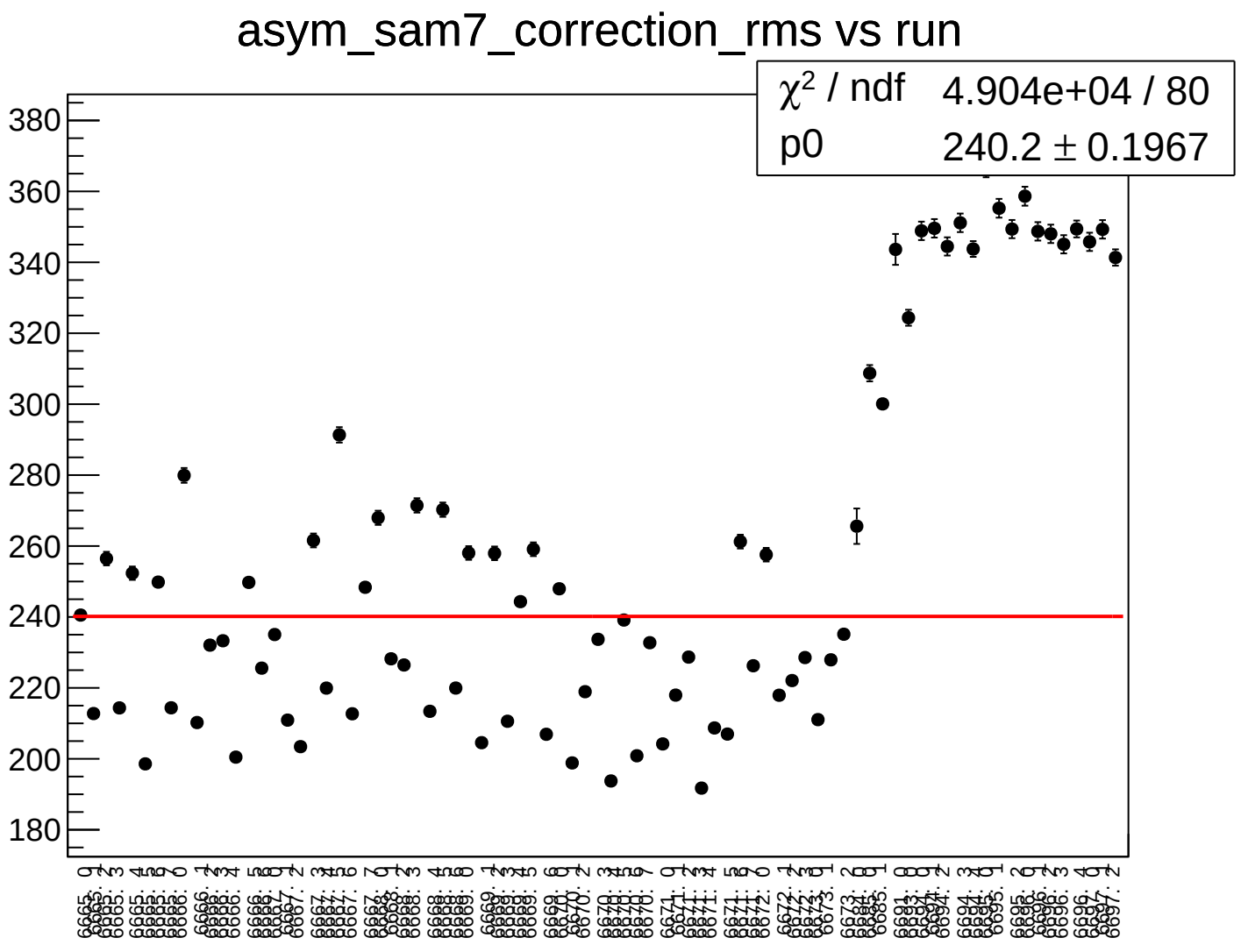

reg_asym_sam7_mean vs run
χ² / ndf 89.73 / 80
p0 253.1 ± 73.45
pull
Entries 81
Mean 414.4
Std Dev 374.3

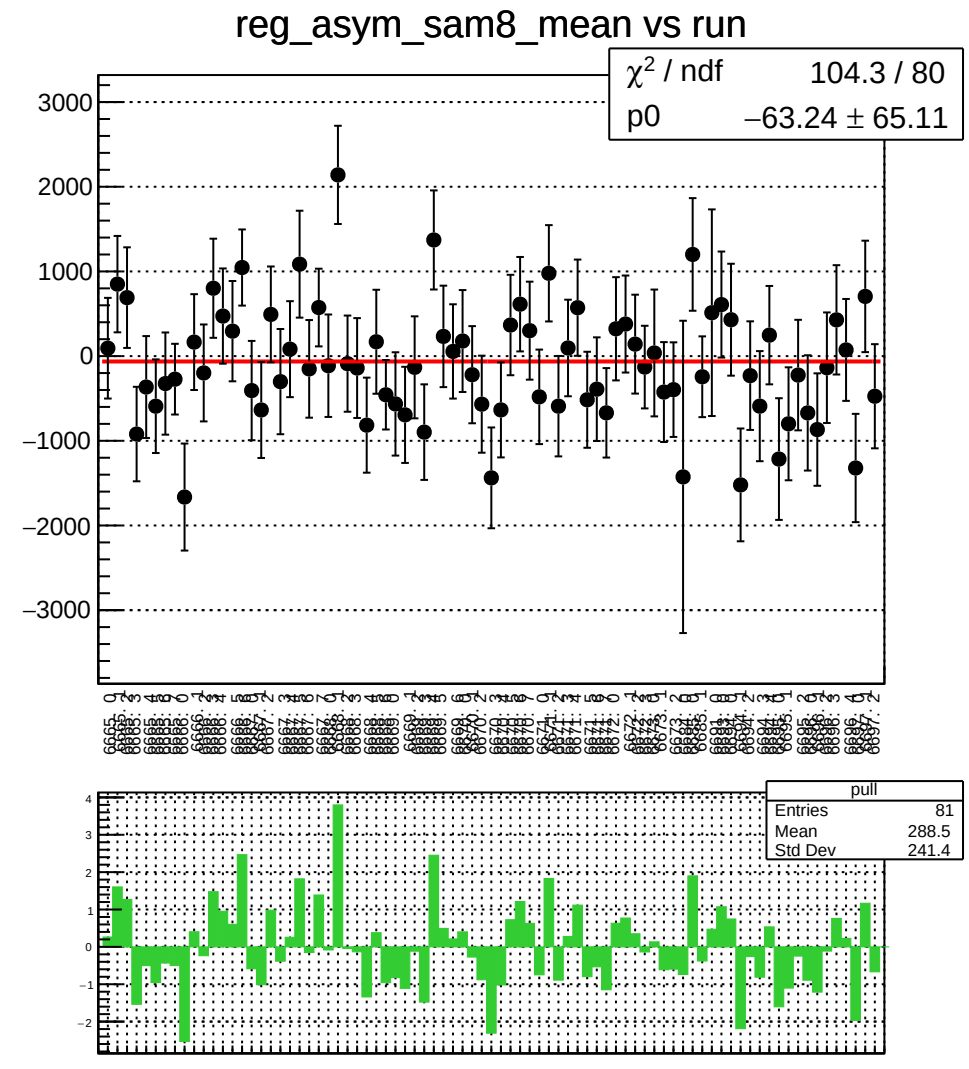

pull1D
Entries 81
Mean −0.01055
Std Dev 1.052

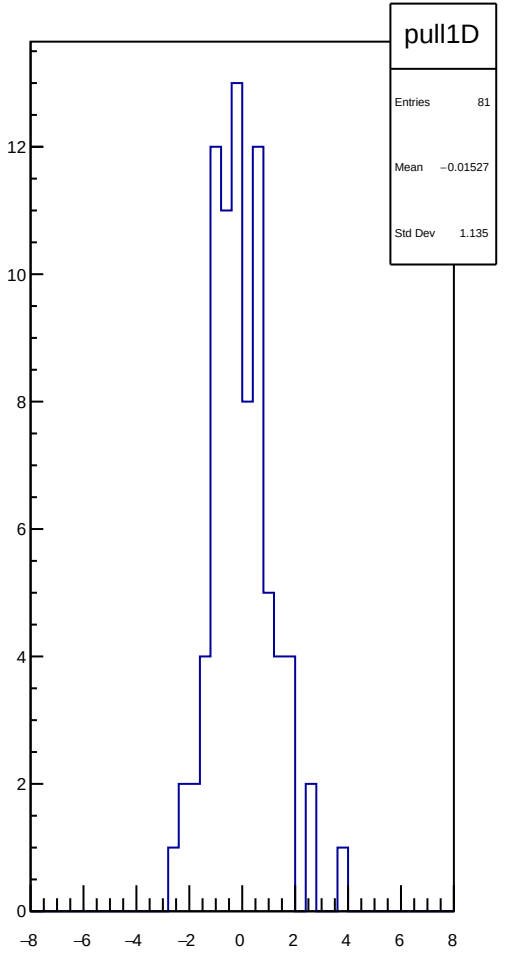

reg_asym_sam7_rms vs run
χ^2 / ndf 1.209e+04 / 80
p0 64.2 ± 0.05194
90
85
80
75
70
65
60
55

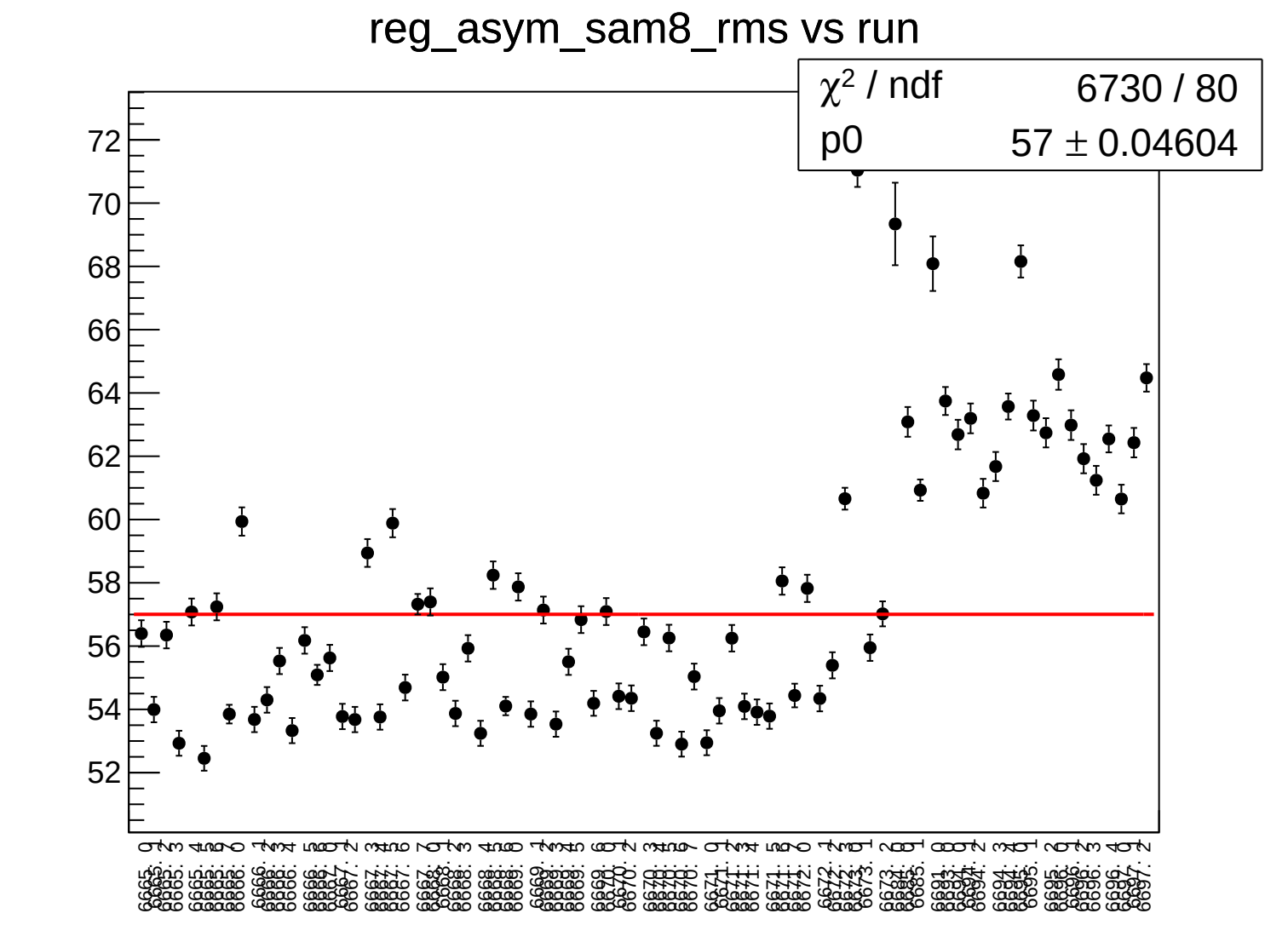

asym_sam7_correction_mean vs run
χ² / ndf 56.8 / 80
p0 −184.2 ± 278.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 83.64
Std Dev 32.37
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

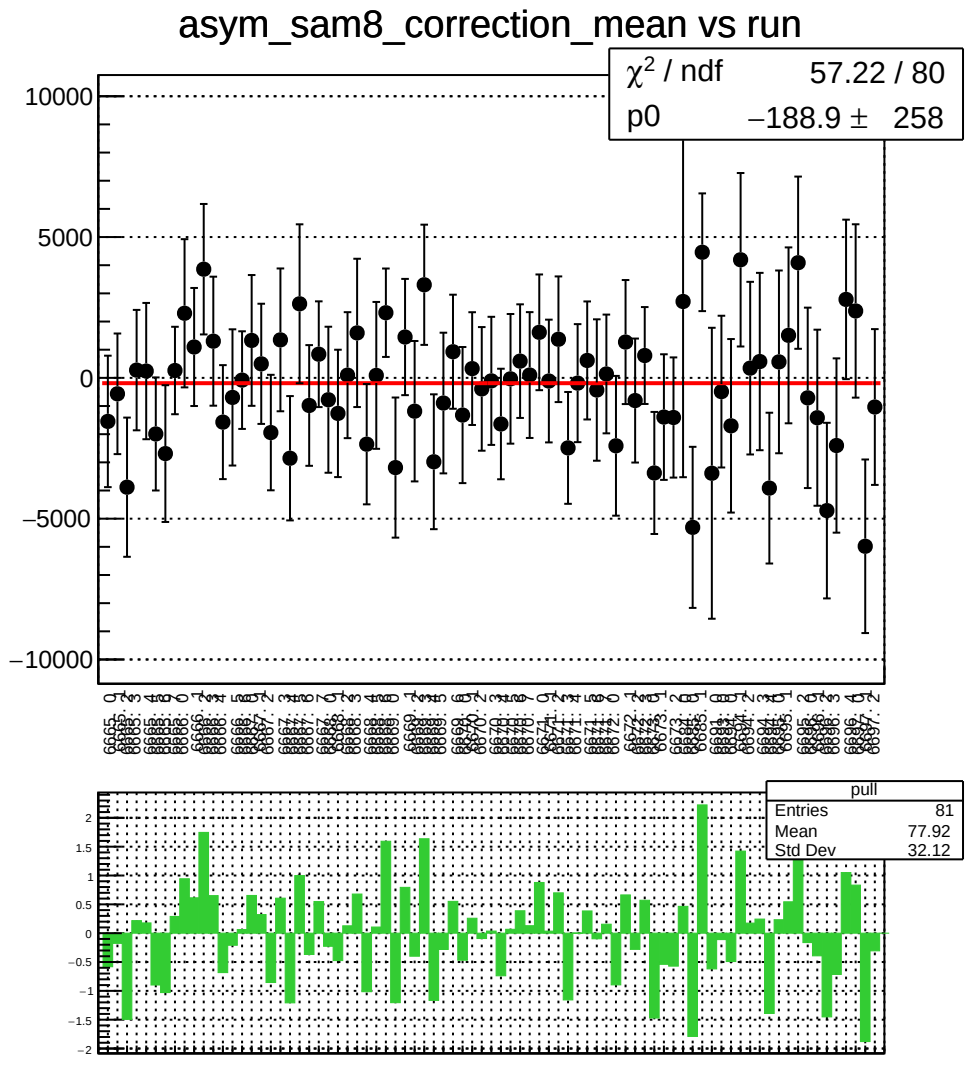

pull1D
Entries 81
Mean −0.01594
Std Dev 0.8373
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

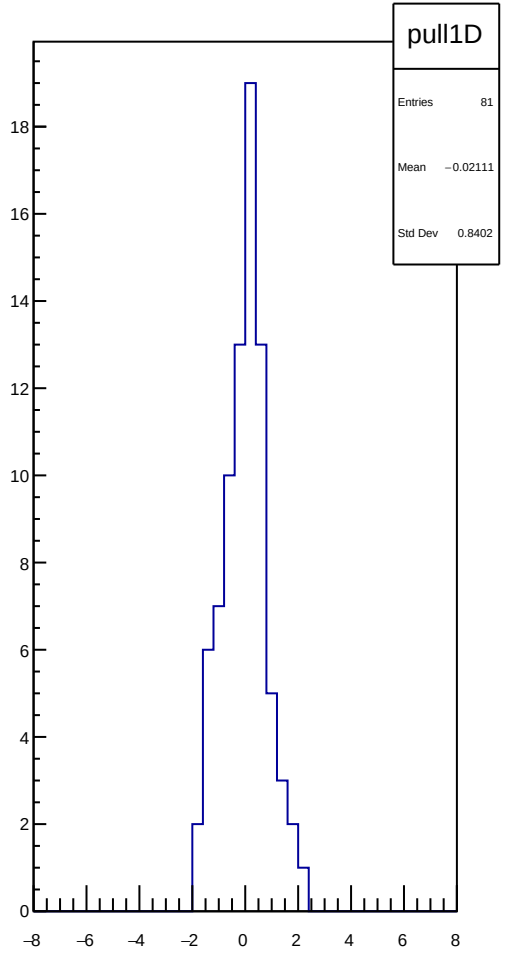

asym_sam7_correction_rms vs run
χ² / ndf 4.904e+04 / 80
p0 240.2 ± 0.1967
380
360
340
320
300
280
260
240
220
200
180

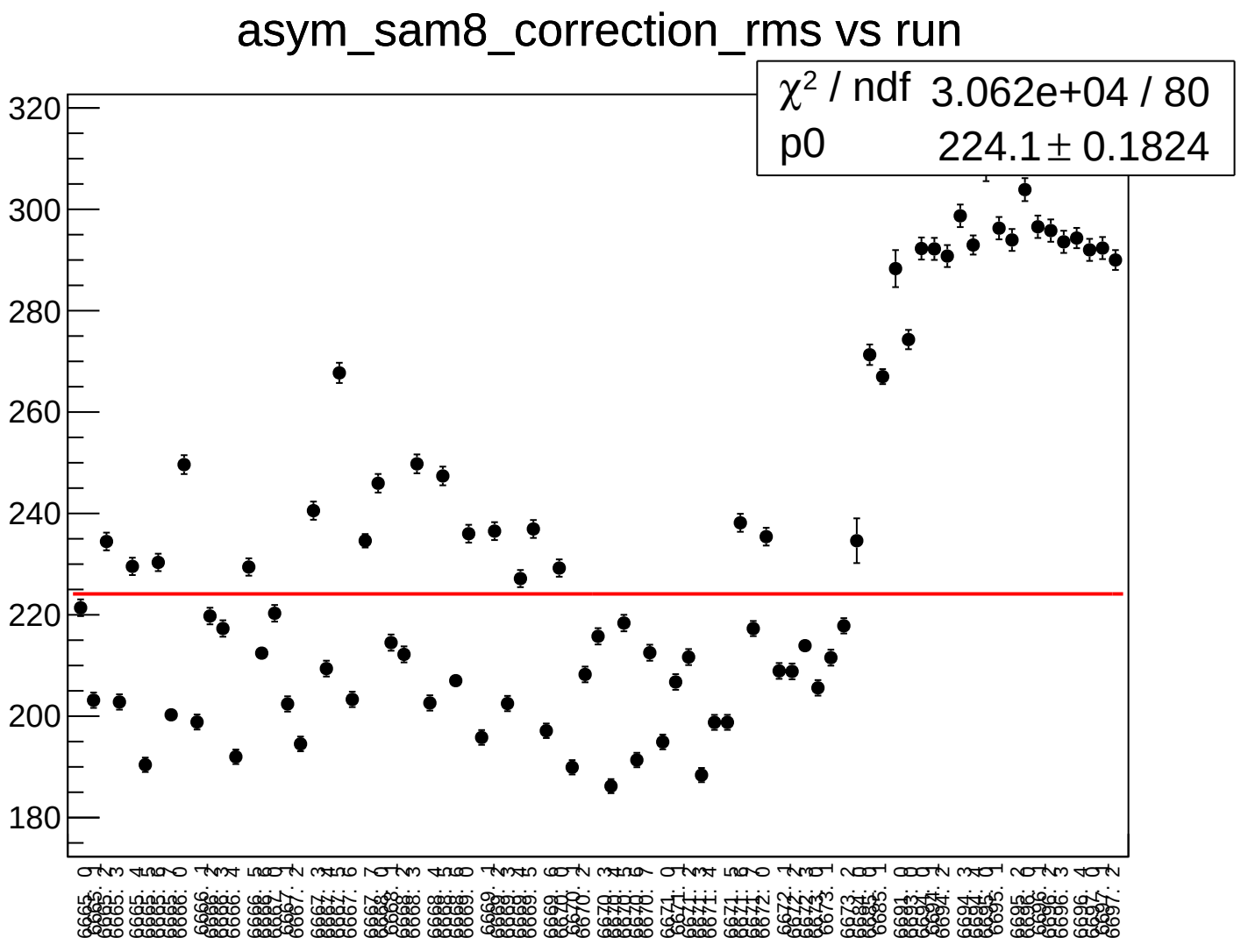

reg_asym_sam8_mean vs run
χ² / ndf 104.3 / 80
p0 −63.24 ± 65.11
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 288.5
Std Dev 241.4
4
3
2
1
0
−1
−2

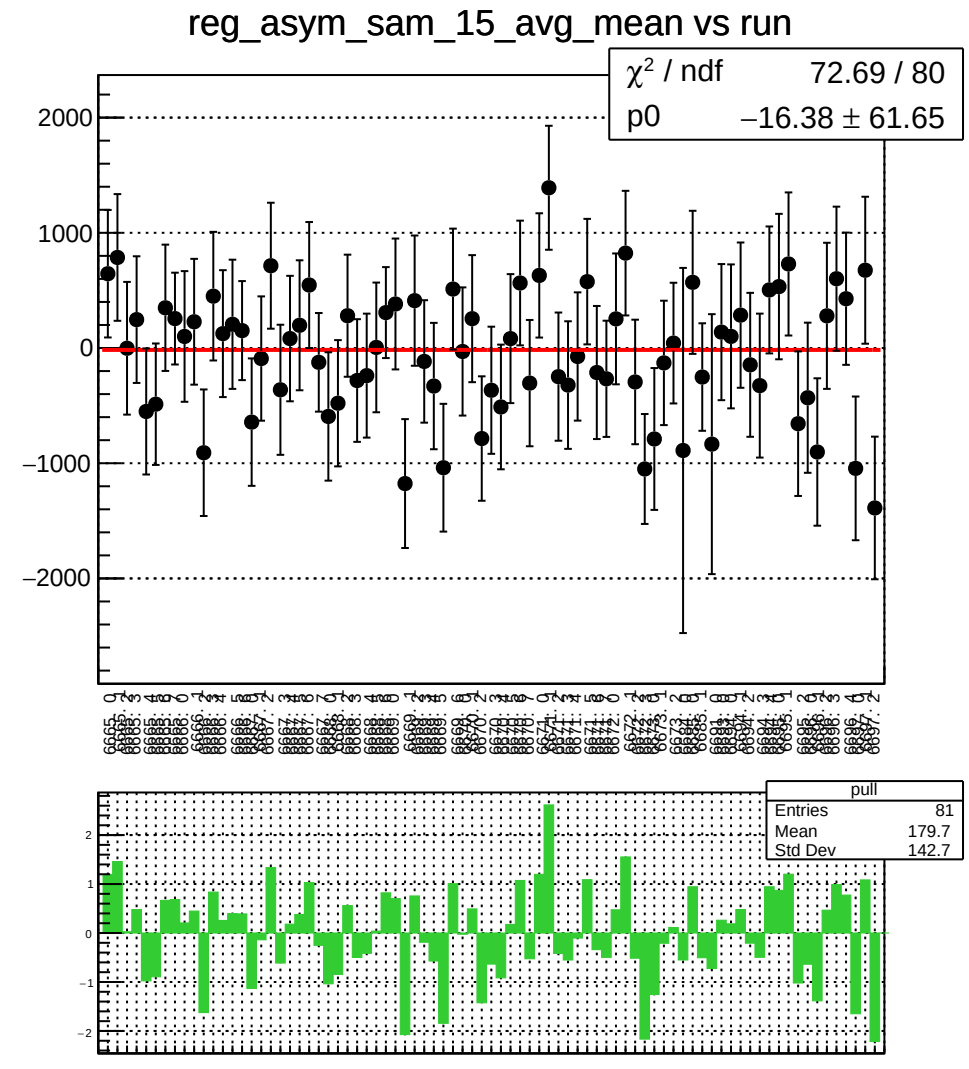

pull1D
Entries 81
Mean −0.01527
Std Dev 1.135
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

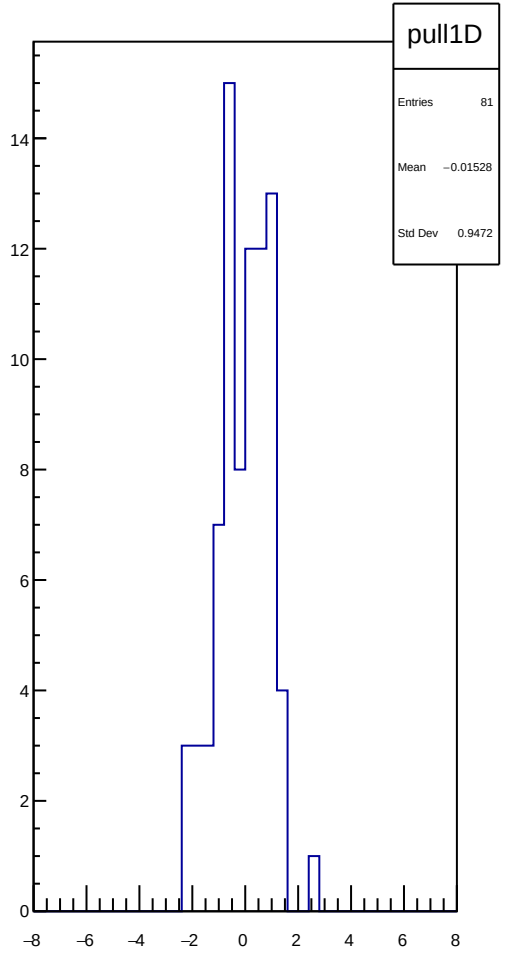

reg_asym_sam8_rms vs run
χ² / ndf 6730 / 80
p0 57 ± 0.04604
72
70
68
66
64
62
60
58
56
54
52

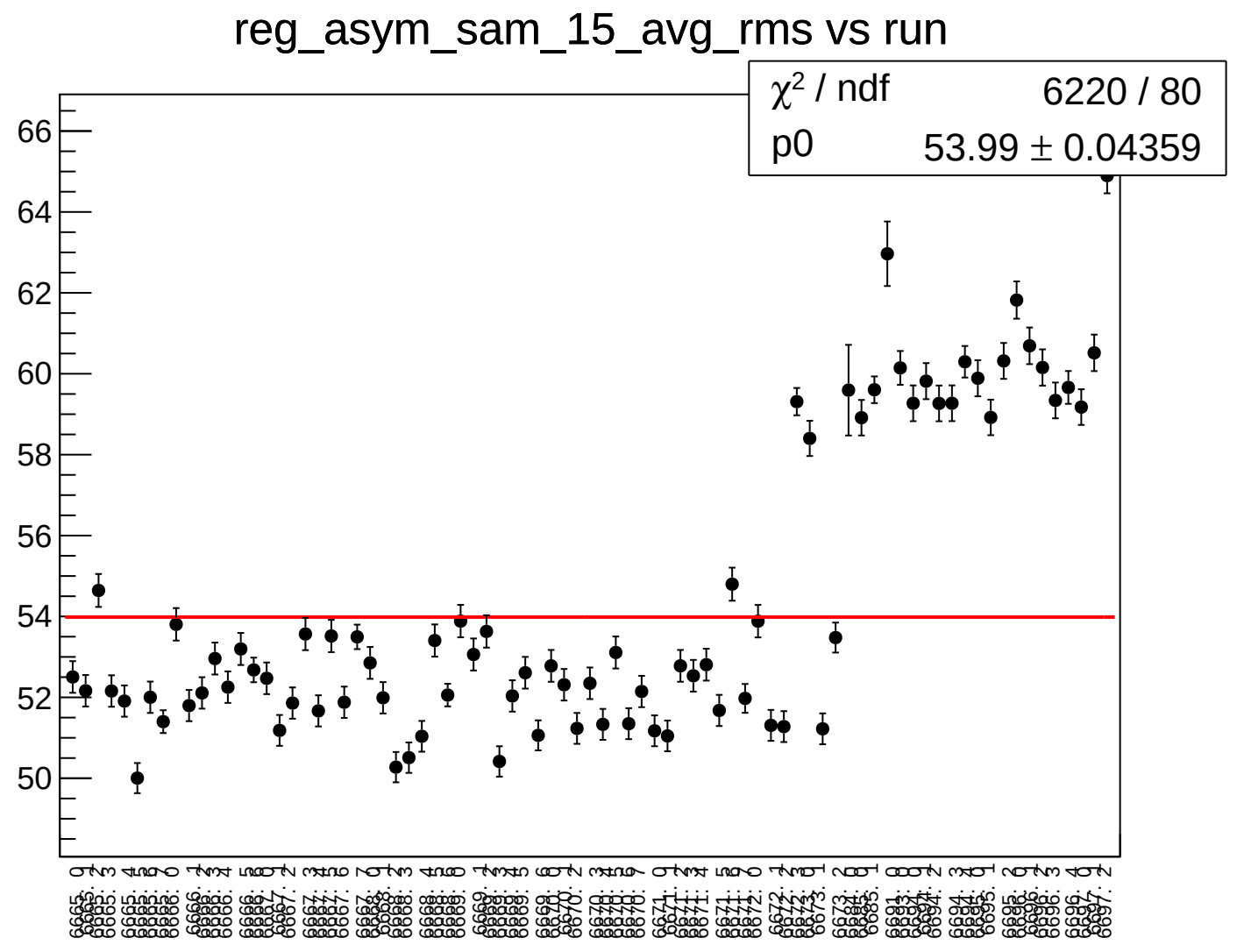

asym_sam8_correction_mean vs run
χ² / ndf 57.22 / 80
p0 −188.9 ± 258
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 77.92
Std Dev 32.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

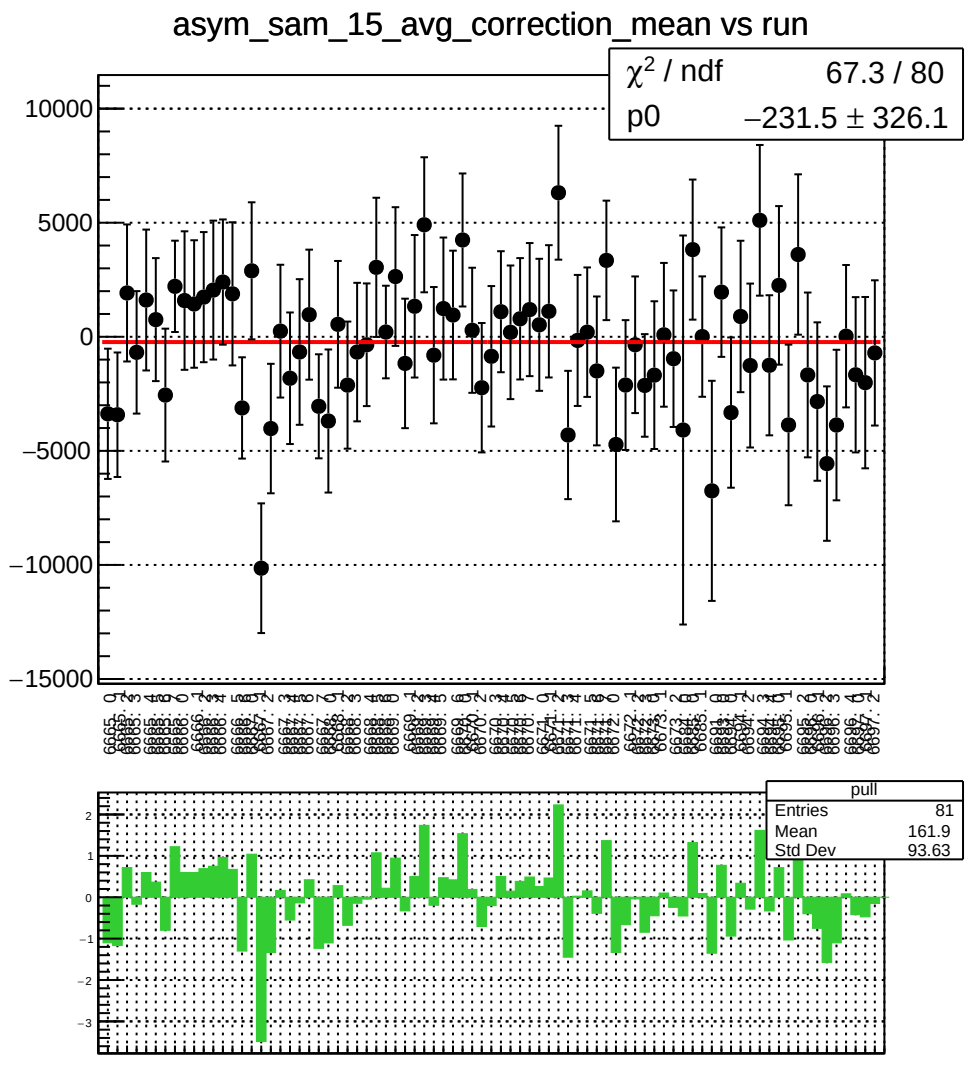

pull1D
Entries 81
Mean −0.02111
Std Dev 0.8402
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

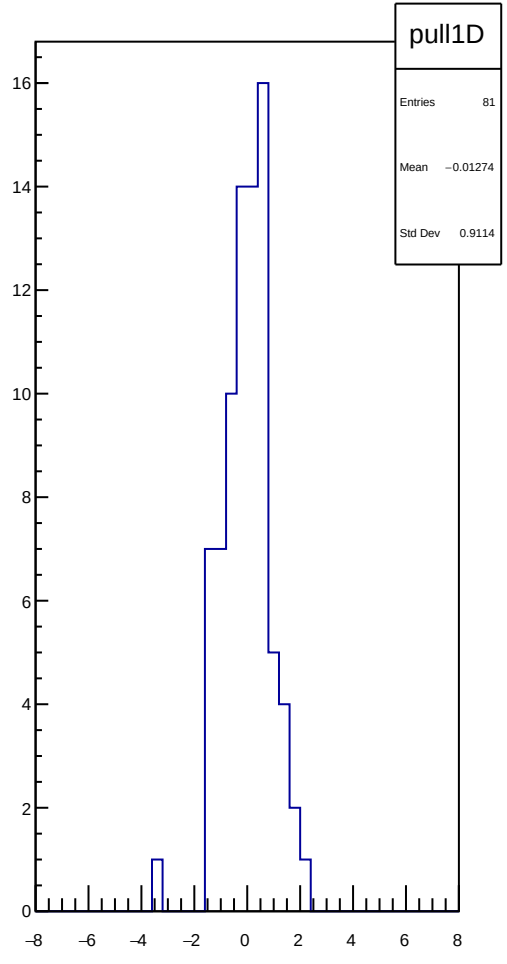

asym_sam8_correction_rms vs run
χ² / ndf 3.062e+04 / 80
p0 224.1 ± 0.1824
320
300
280
260
240
220
200
180

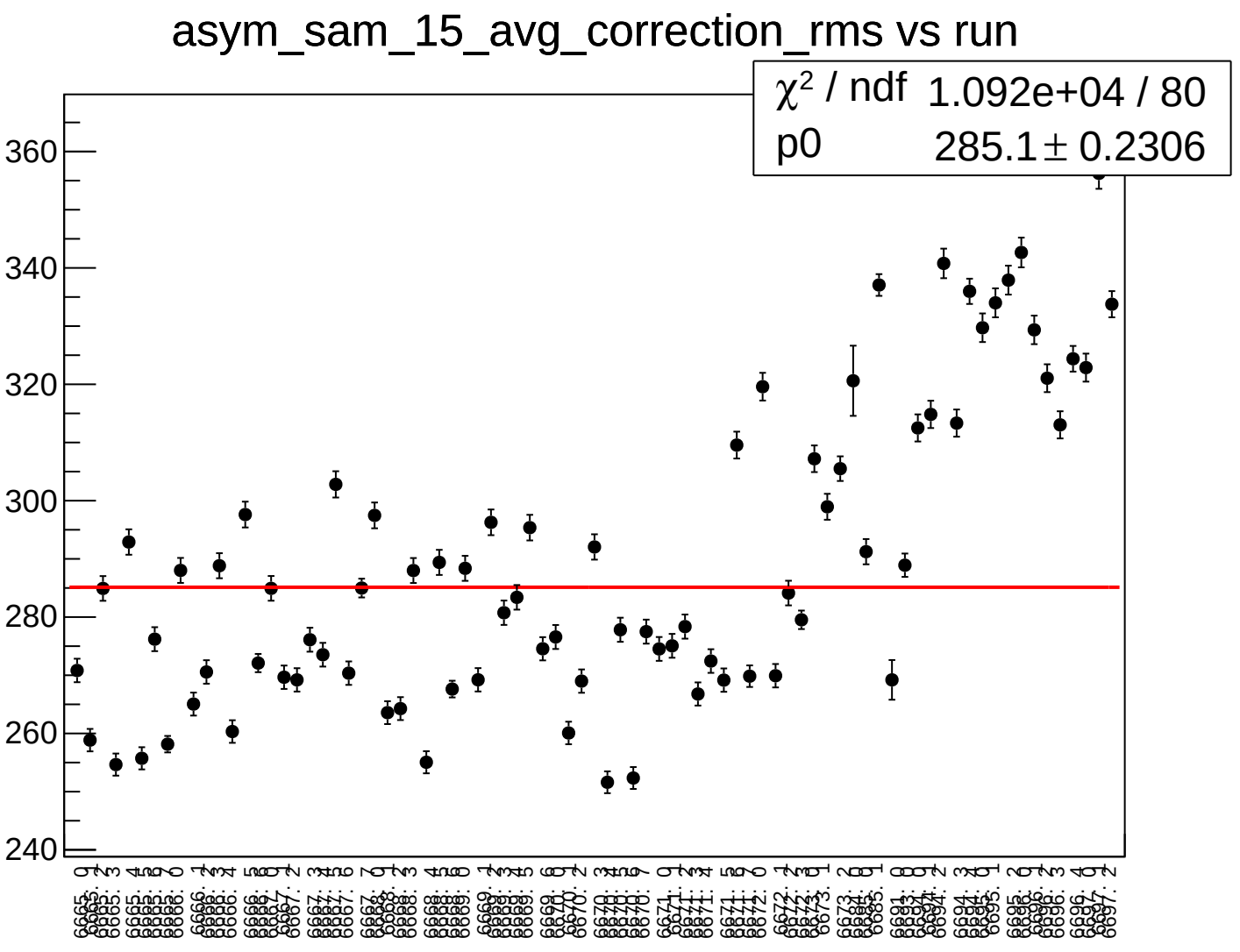

reg_asym_sam_15_avg_mean vs run
χ² / ndf 72.69 / 80
p0 −16.38 ± 61.65
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 179.7
Std Dev 142.7
2
1
0
−1
−2

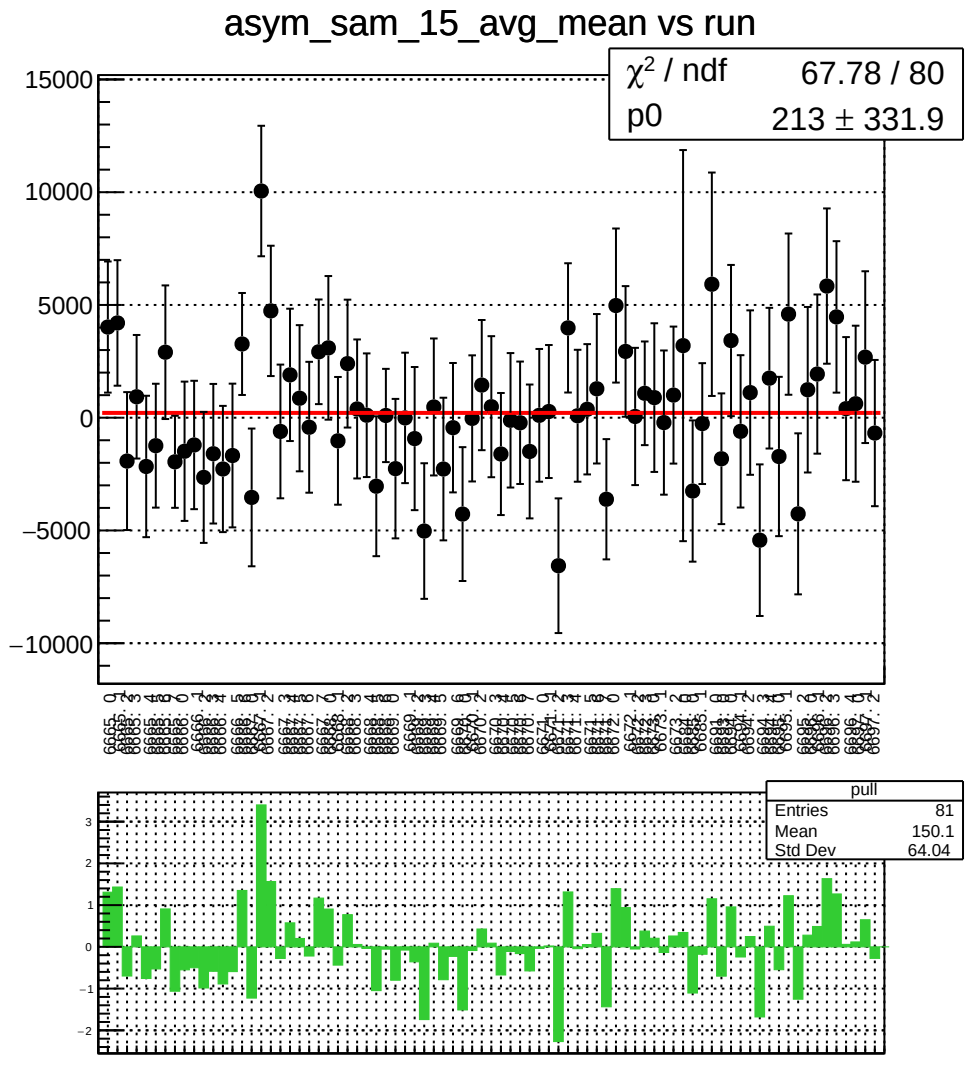

pull1D
Entries 81
Mean −0.01528
Std Dev 0.9472
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

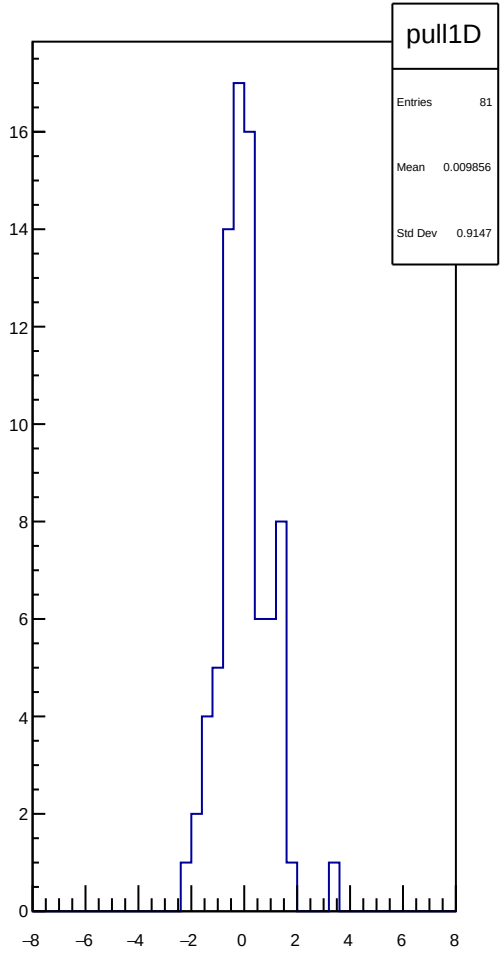

reg_asym_sam_15_avg_rms vs run
χ² / ndf 6220 / 80
p0 53.99 ± 0.04359
66
64
62
60
58
56
54
52
50

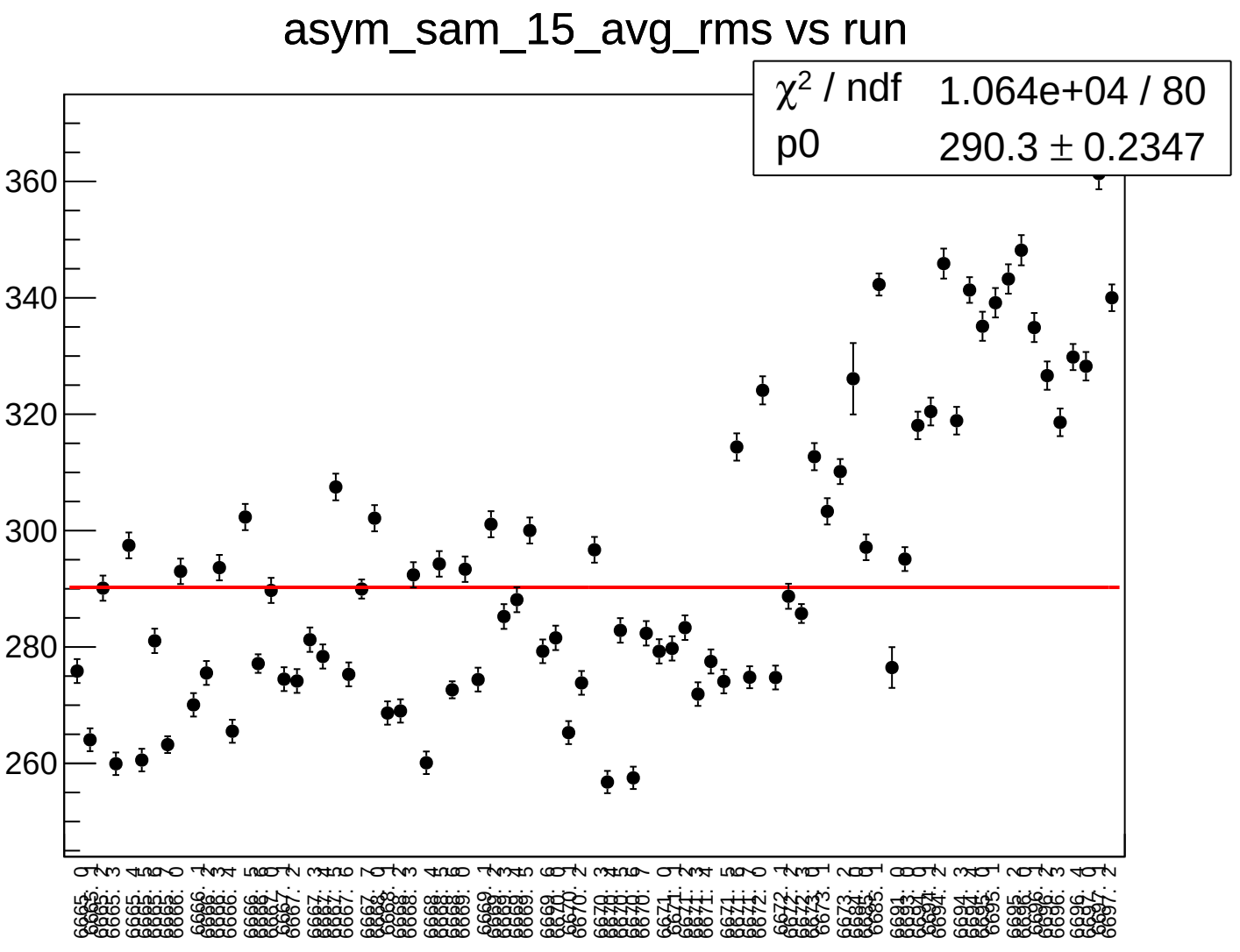

asym_sam_15_avg_correction_mean vs run
χ² / ndf 67.3 / 80
p0 −231.5 ± 326.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 161.9
Std Dev 93.63
2
1
0
−1
−2
−3

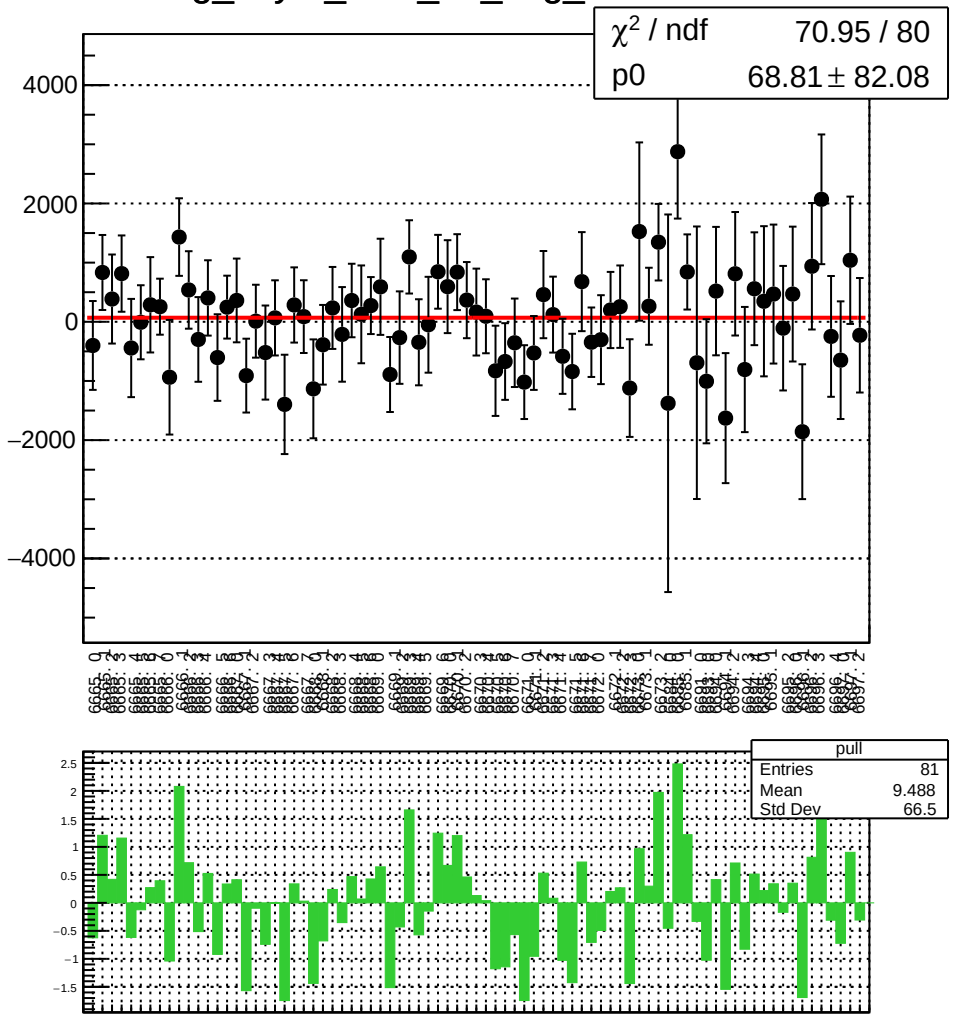

pull1D
Entries 81
Mean −0.01274
Std Dev 0.9114
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

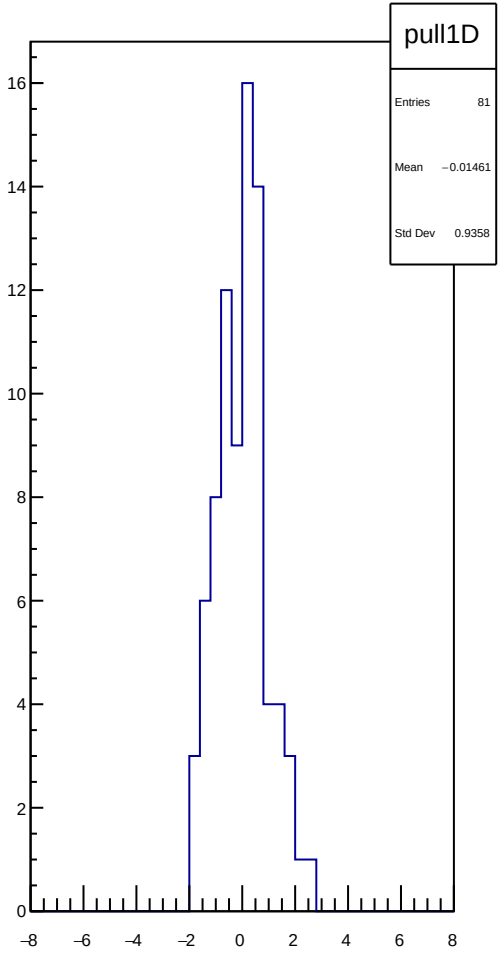

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.092e+04 / 80
p0 285.1 ± 0.2306
360
340
320
300
280
260
240

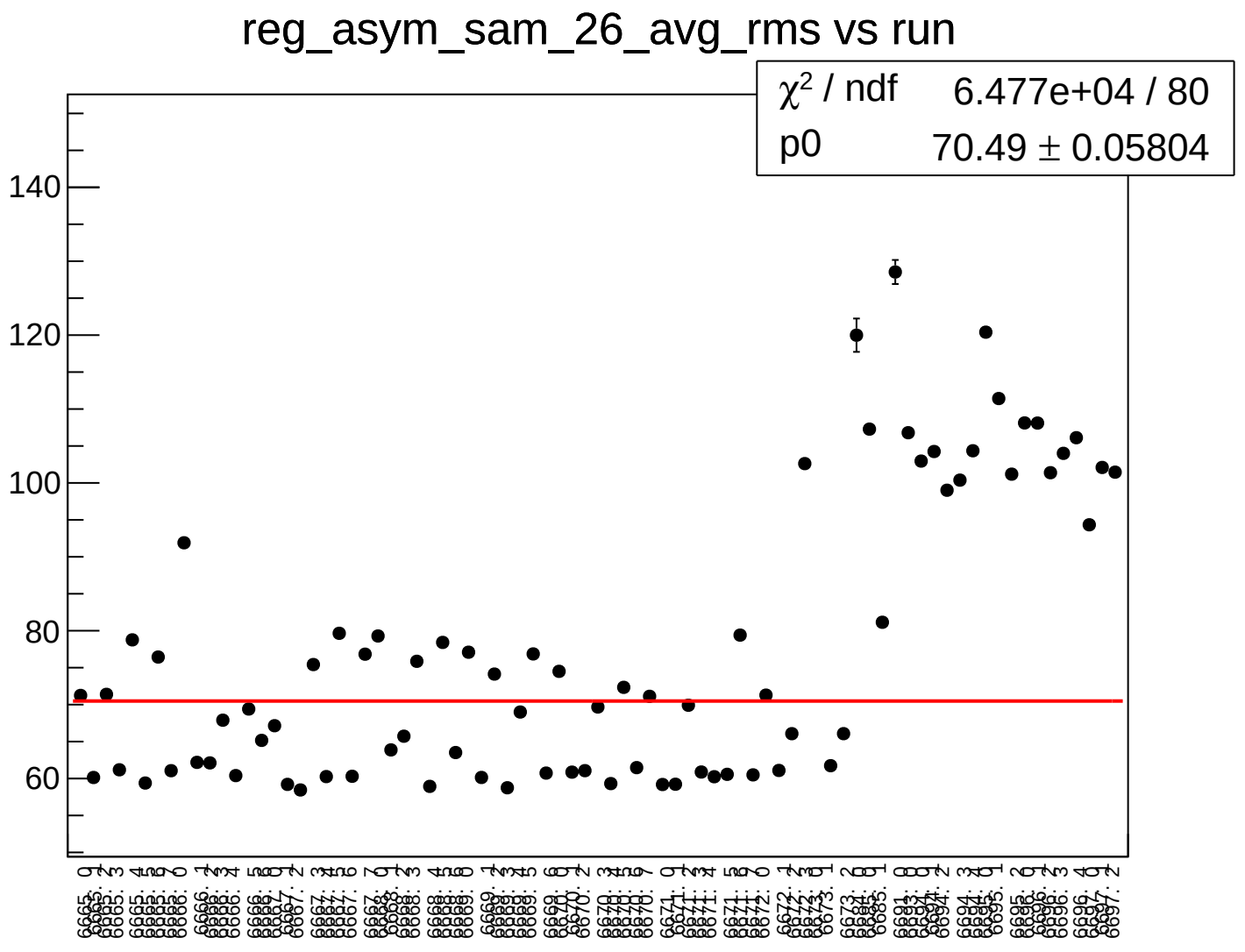

asym_sam_15_avg_mean vs run
χ² / ndf 67.78 / 80
p0 213 ± 331.9
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 150.1
Std Dev 64.04
3
2
1
0
−1
−2

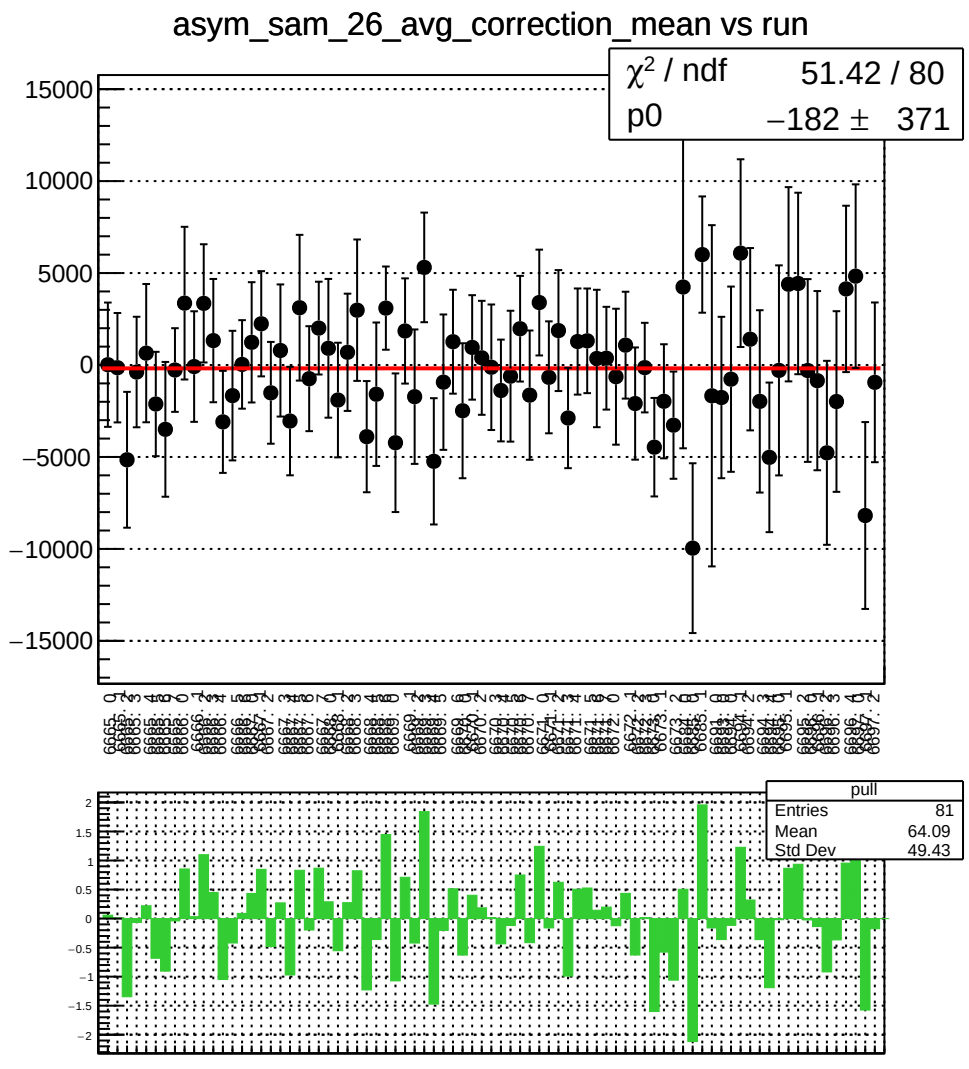

pull1D
Entries 81
Mean 0.009856
Std Dev 0.9147
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

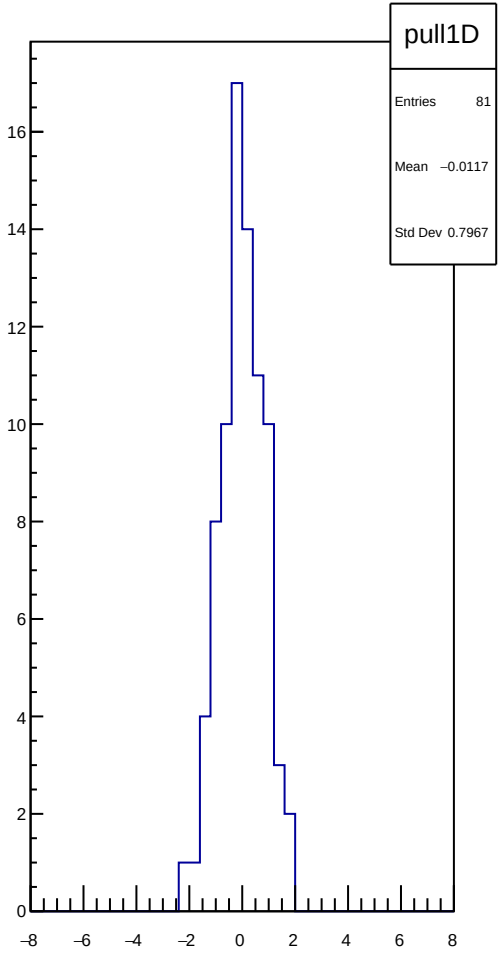

asym_sam_15_avg_rms vs run
χ² / ndf 1.064e+04 / 80
p0 290.3 ± 0.2347
360
340
320
300
280
260

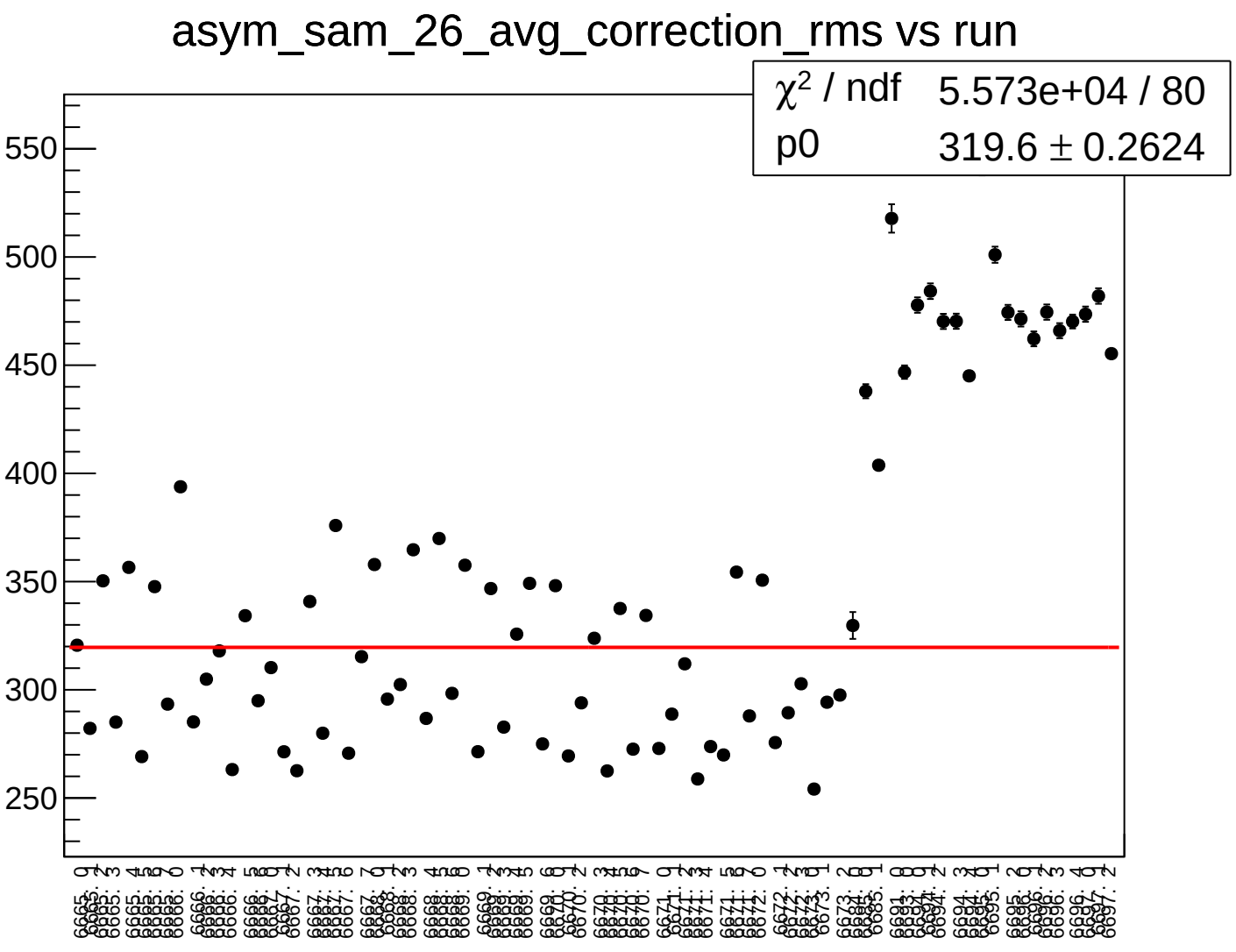

reg_asym_sam_26_avg_mean vs run
χ² / ndf 70.95 / 80
p0 68.81 ± 82.08
pull
Entries 81
Mean 9.488
Std Dev 66.5

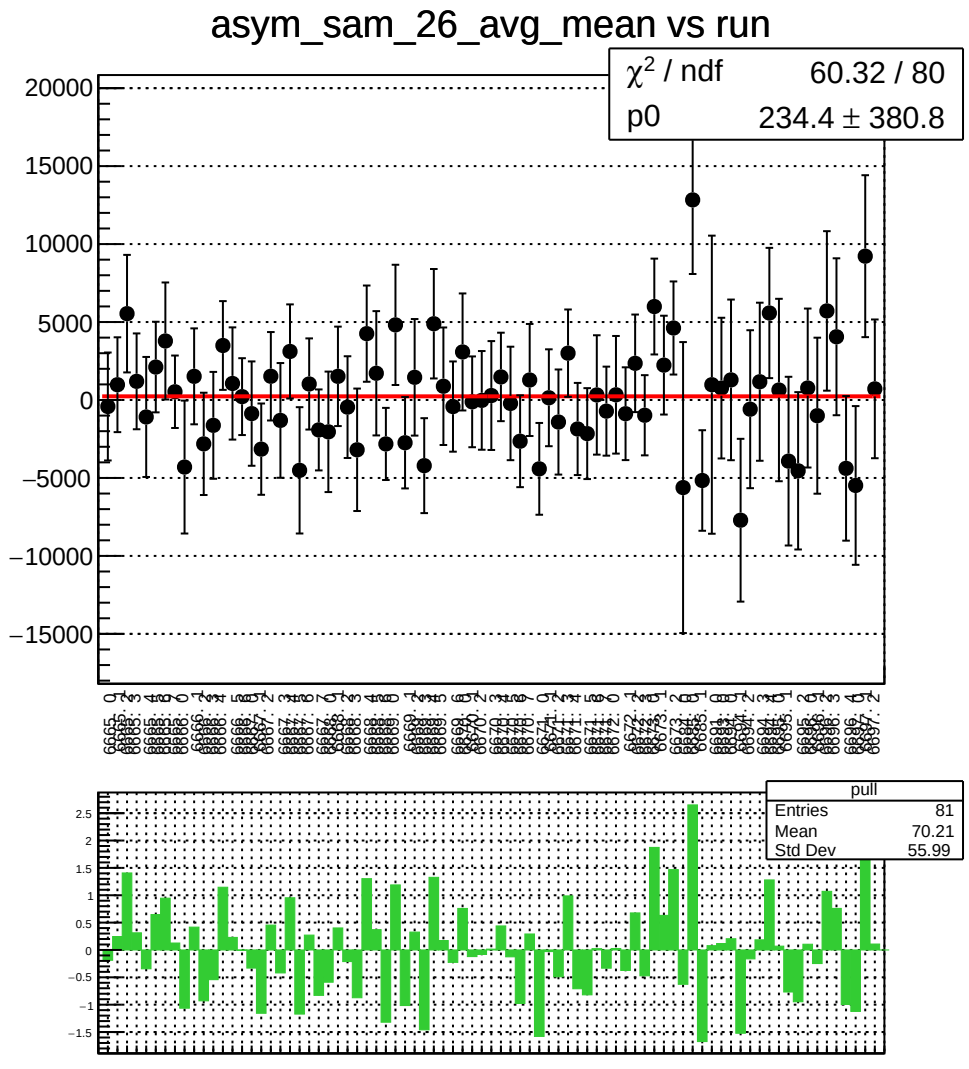

pull1D
Entries 81
Mean −0.01461
Std Dev 0.9358

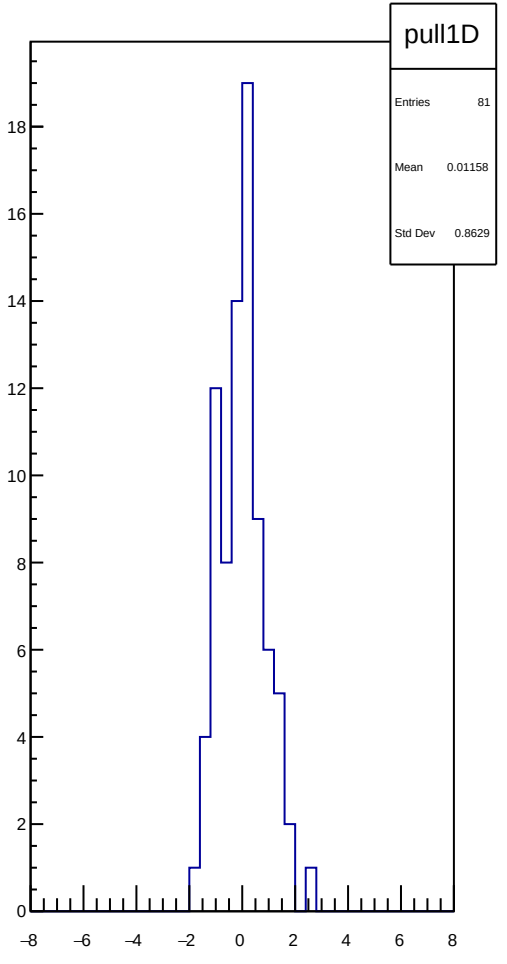

reg_asym_sam_26_avg_rms vs run
χ² / ndf 6.477e+04 / 80
p0 70.49 ± 0.05804
140
120
100
80
60

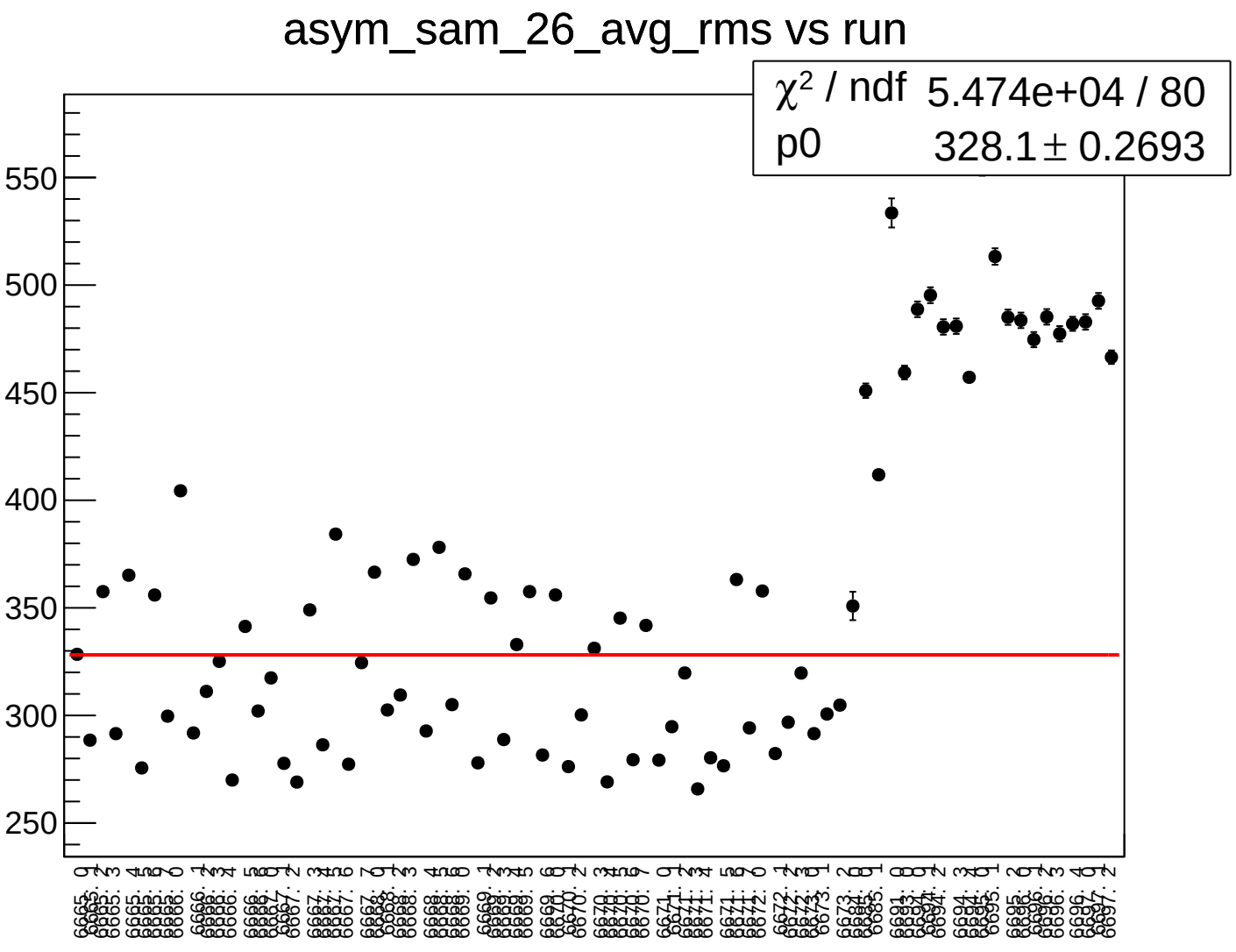

asym_sam_26_avg_correction_mean vs run
χ² / ndf 51.42 / 80
p0 −182 ± 371
pull
Entries 81
Mean 64.09
Std Dev 49.43

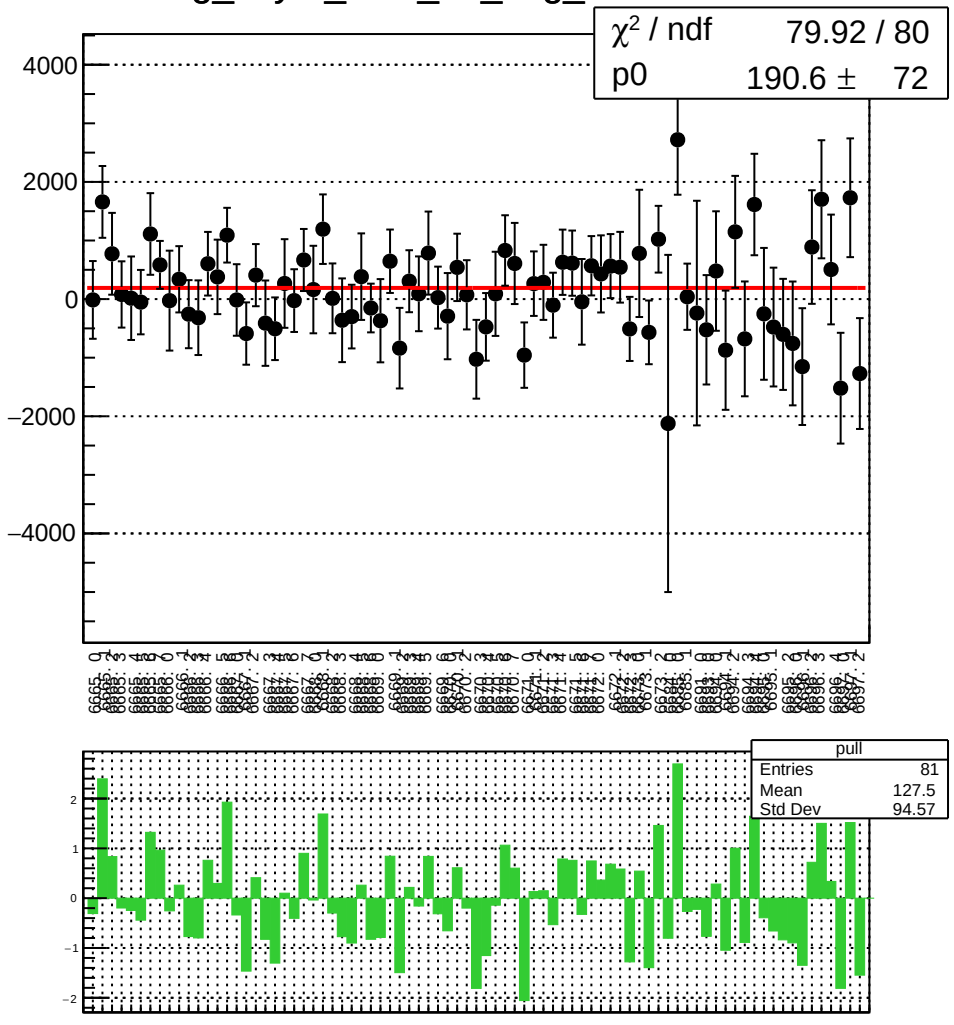

pull1D
Entries 81
Mean −0.0117
Std Dev 0.7967

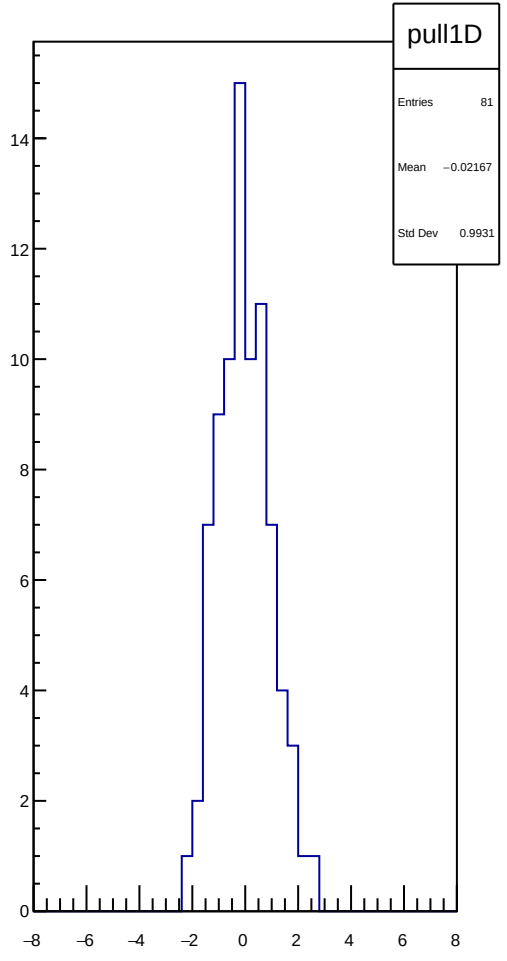

asym_sam_26_avg_correction_rms vs run
χ² / ndf 5.573e+04 / 80
p0 319.6 ± 0.2624
550
500
450
400
350
300
250

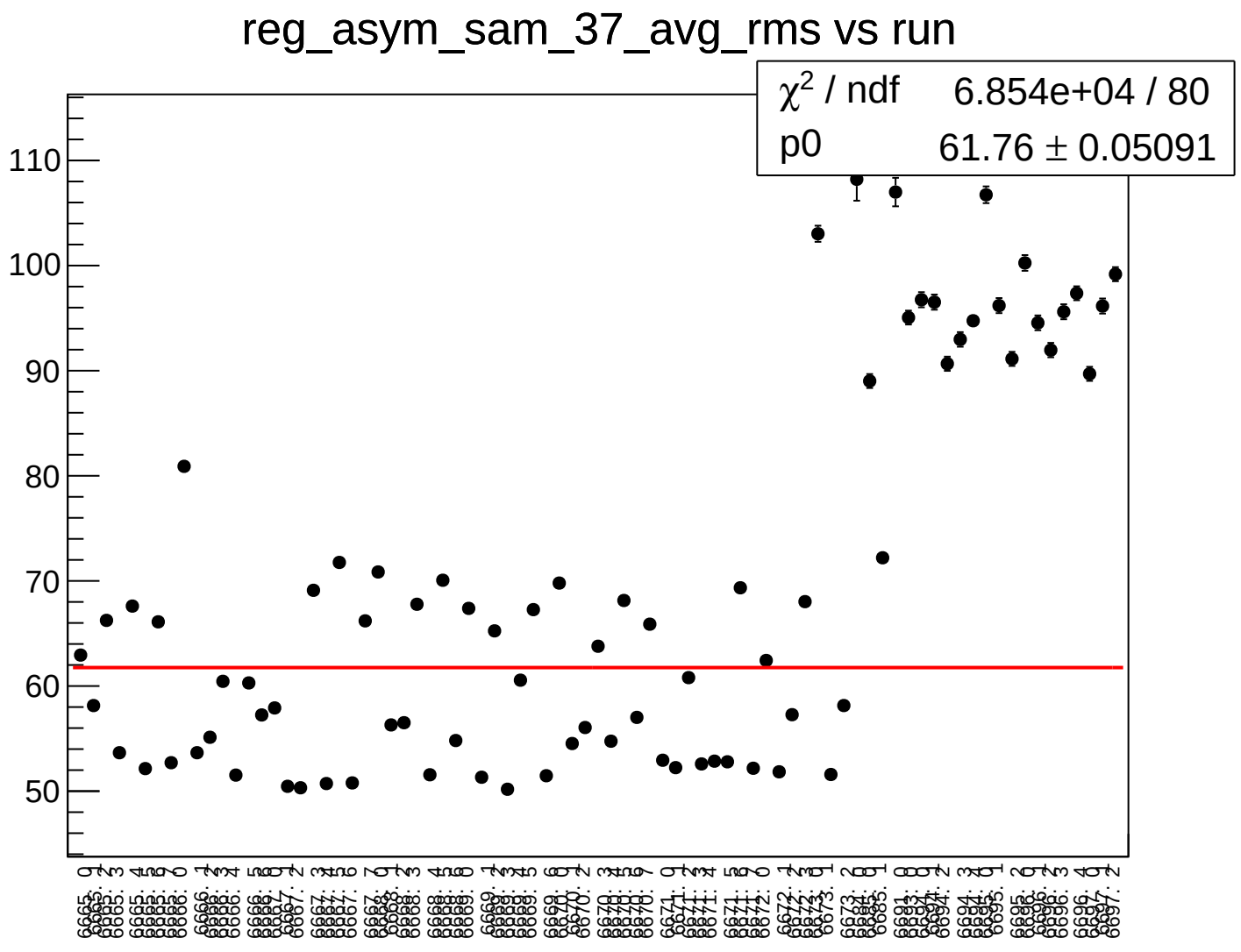

asym_sam_26_avg_mean vs run
χ² / ndf 60.32 / 80
p0 234.4 ± 380.8
pull
Entries 81
Mean 70.21
Std Dev 55.99

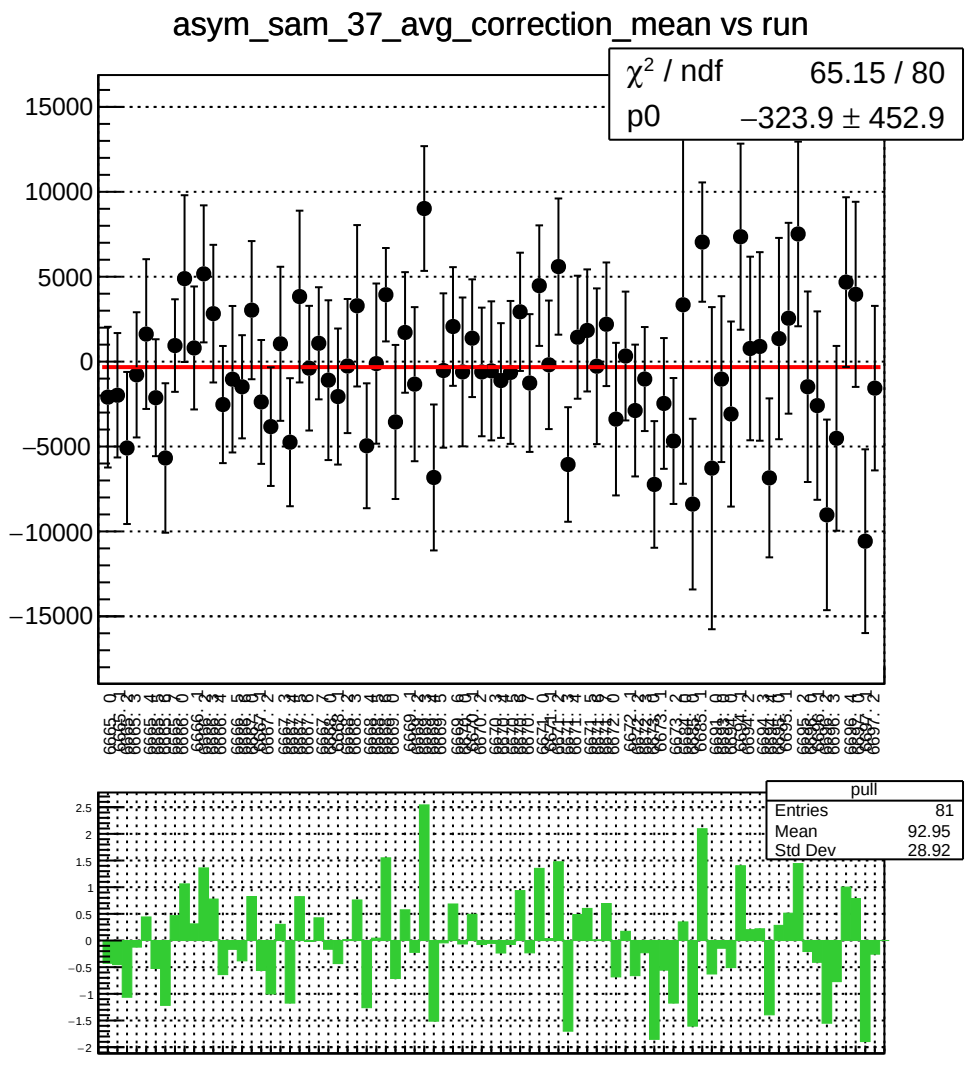

pull1D
Entries 81
Mean 0.01158
Std Dev 0.8629

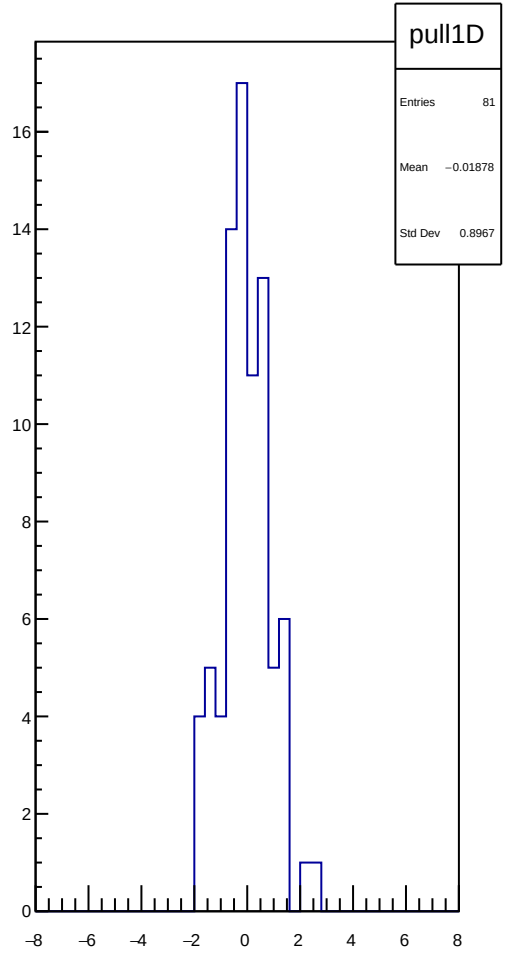

asym_sam_26_avg_rms vs run
χ² / ndf 5.474e+04 / 80
p0 328.1 ± 0.2693
550
500
450
400
350
300
250

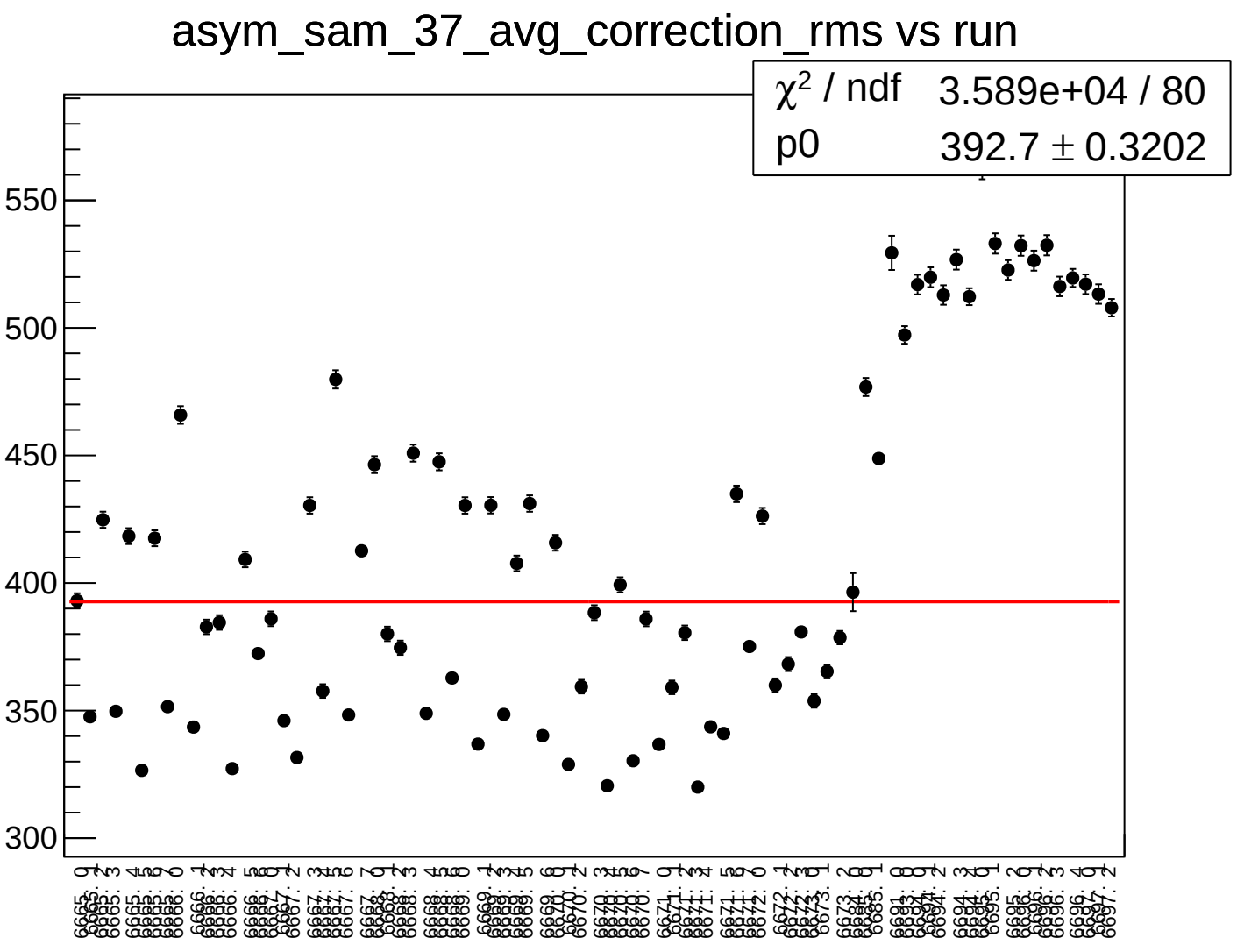

reg_asym_sam_37_avg_mean vs run
χ² / ndf 79.92 / 80
p0 190.6 ± 72
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 127.5
Std Dev 94.57
2
1
0
−1
−2

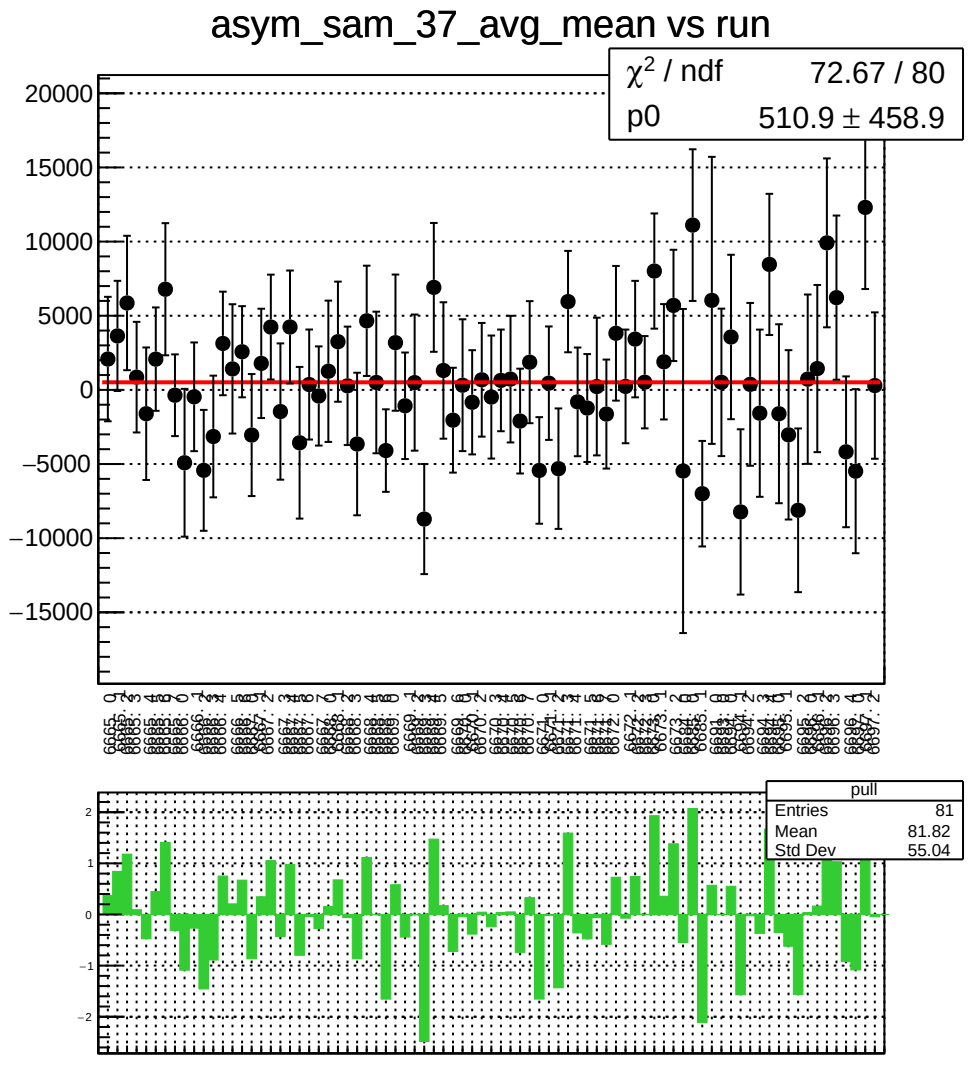

pull1D
Entries 81
Mean −0.02167
Std Dev 0.9931
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

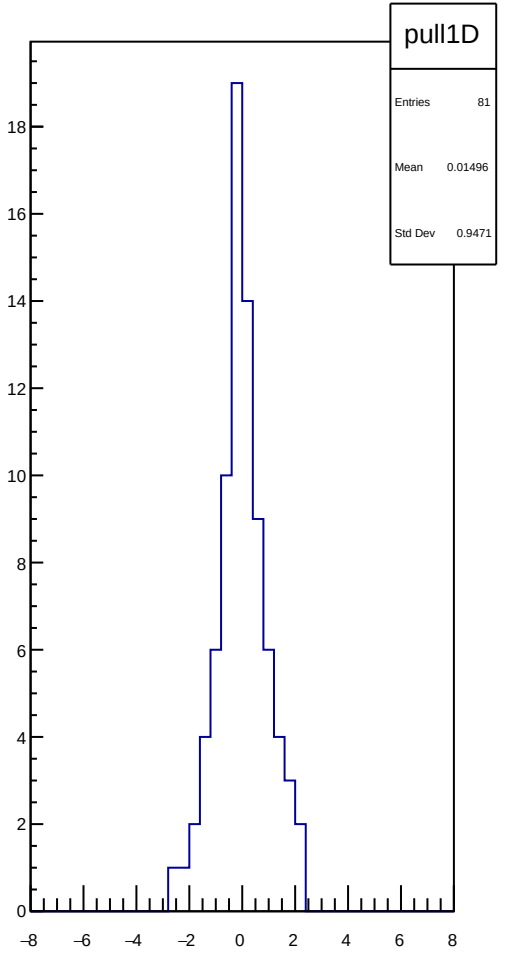

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 6.854e+04 / 80
p0 61.76 ± 0.05091
110
100
90
80
70
60
50

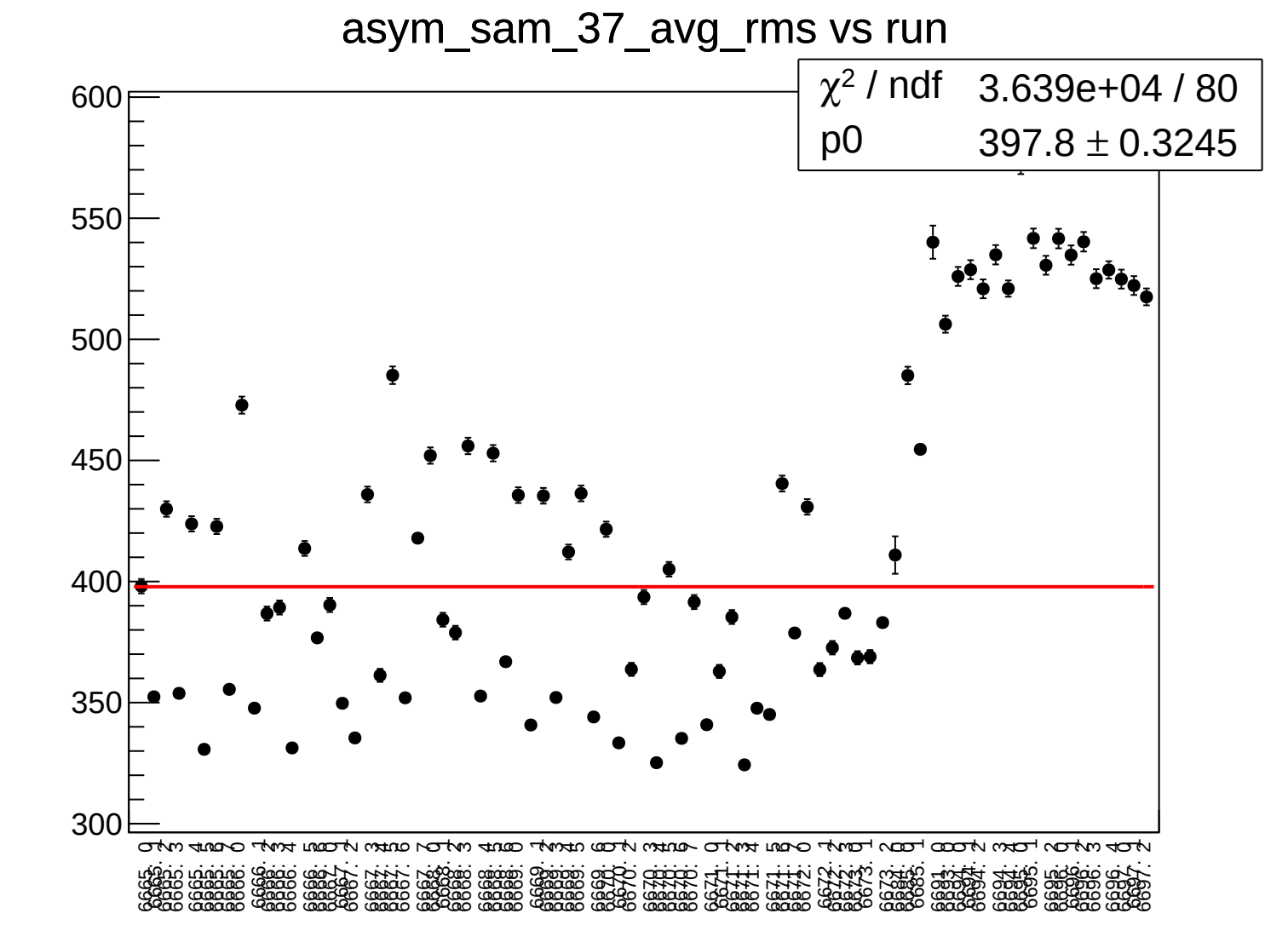

asym_sam_37_avg_correction_mean vs run
χ² / ndf 65.15 / 80
p0 −323.9 ± 452.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 92.95
Std Dev 28.92
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

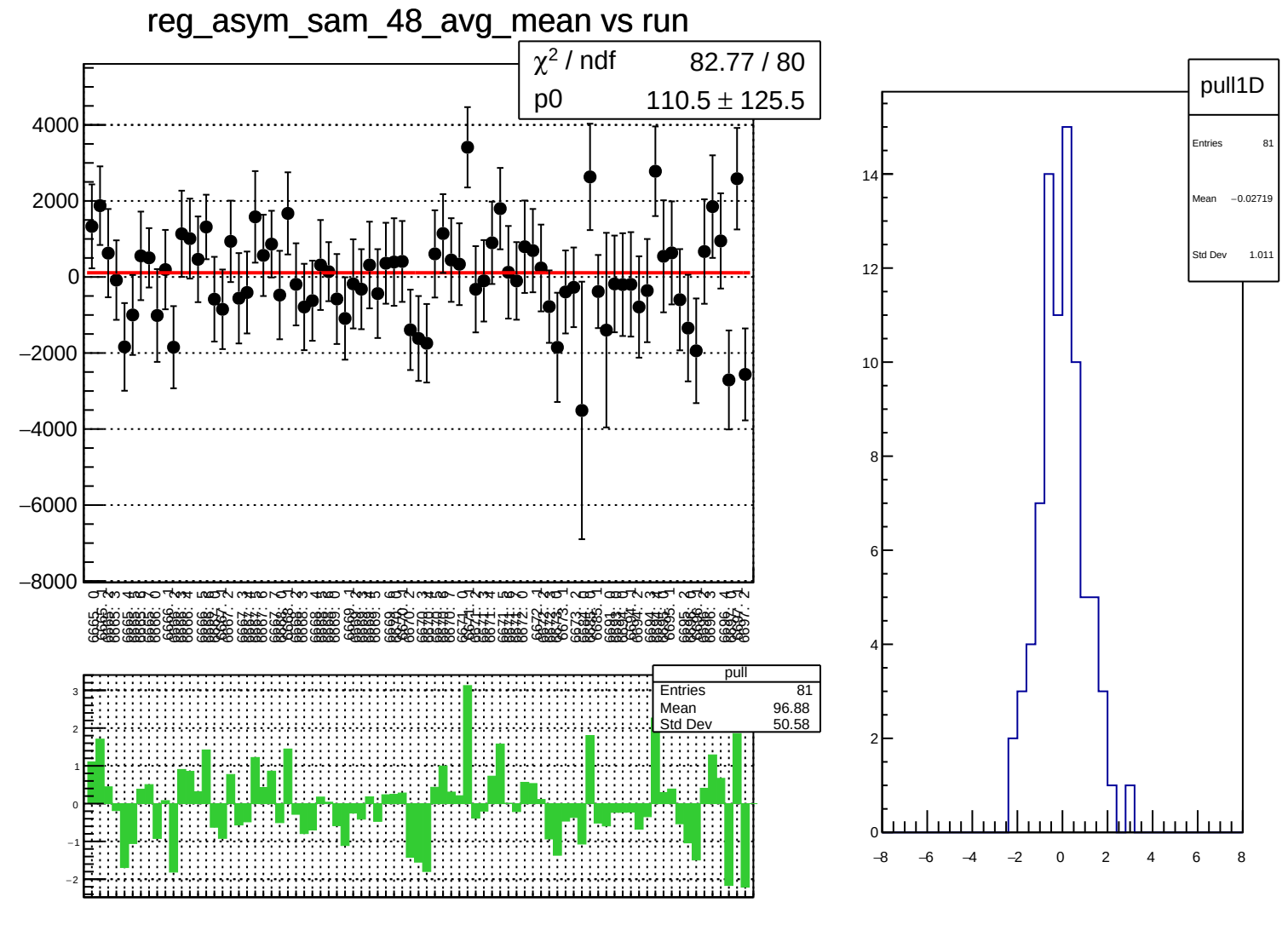

pull1D
Entries 81
Mean −0.01878
Std Dev 0.8967
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

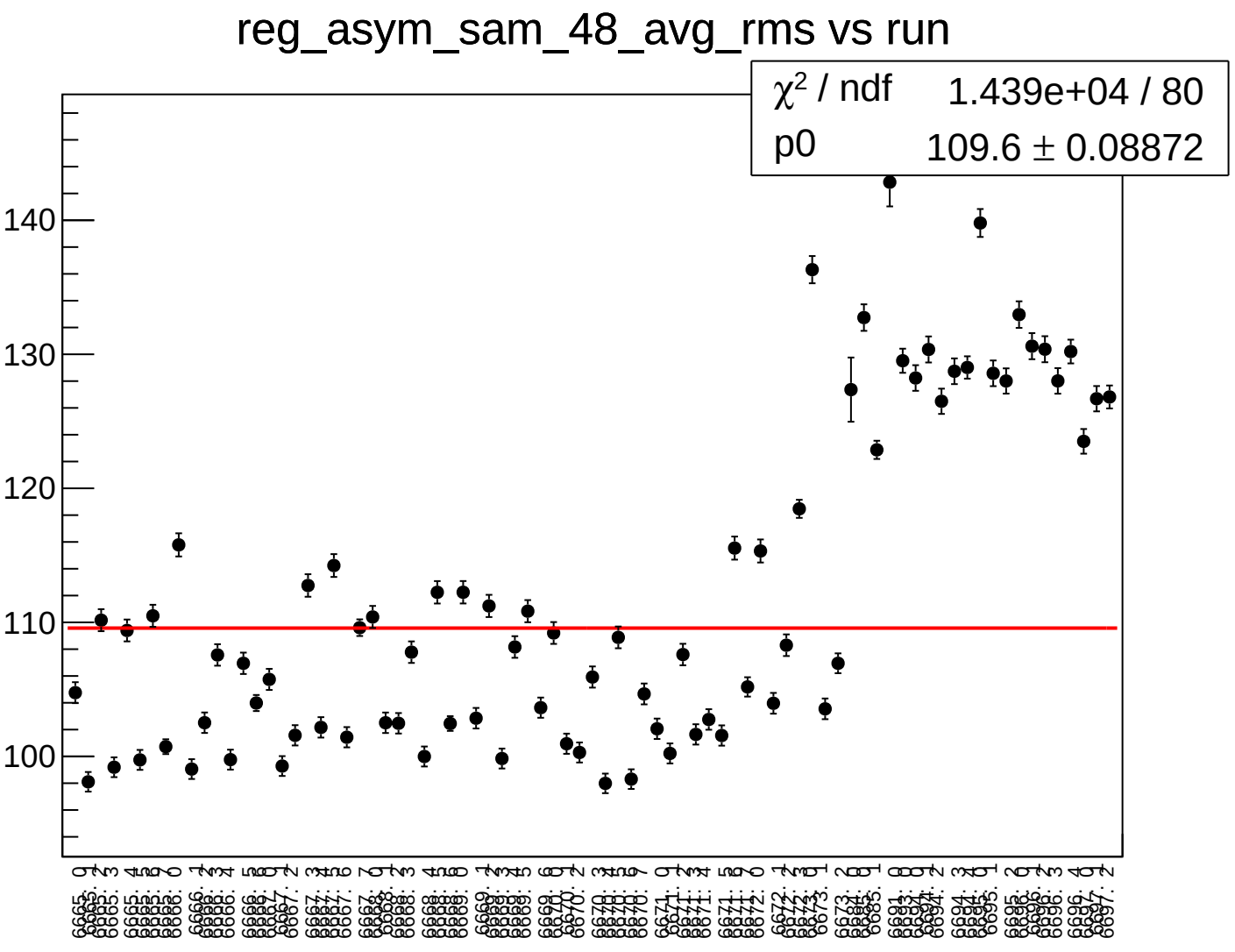

asym_sam_37_avg_correction_rms vs run
χ² / ndf 3.589e+04 / 80
p0 392.7 ± 0.3202
550
500
450
400
350
300

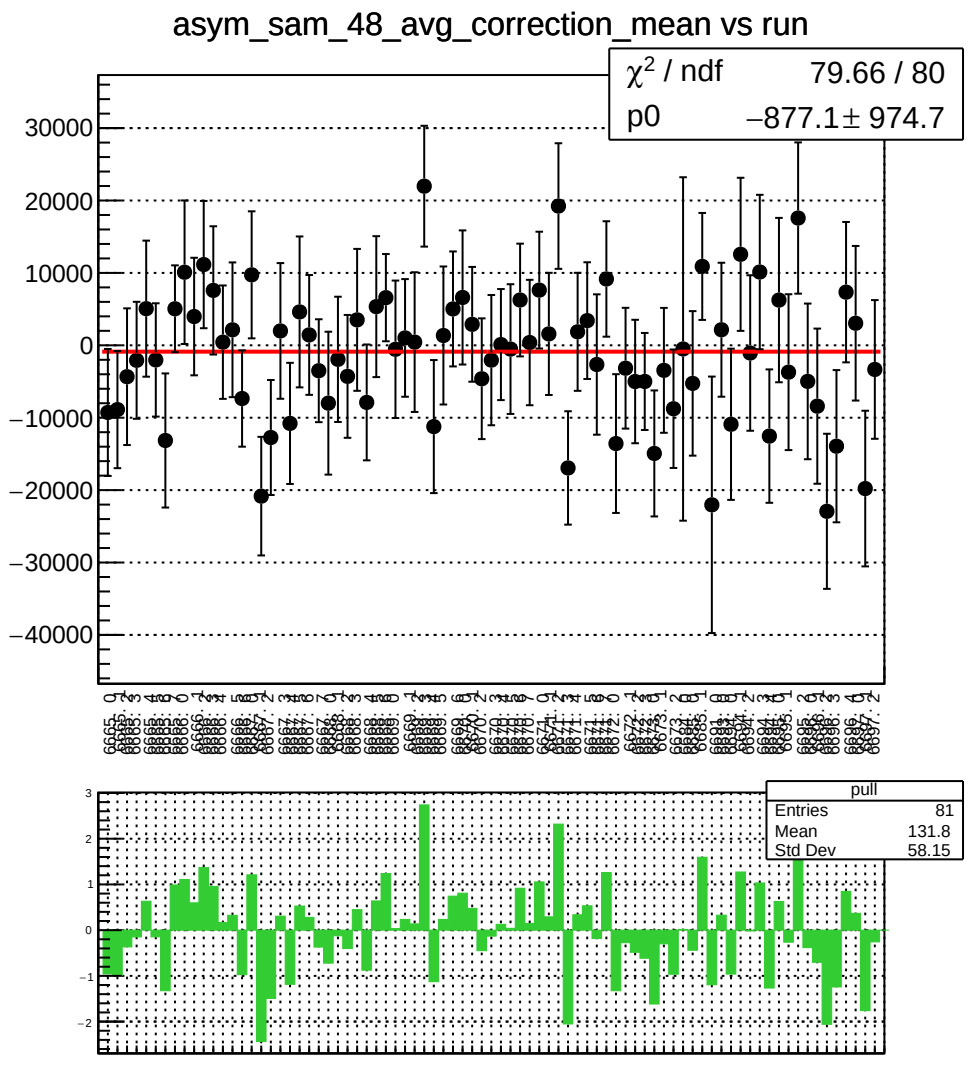

asym_sam_37_avg_mean vs run
χ² / ndf 72.67 / 80
p0 510.9 ± 458.9
pull
Entries 81
Mean 81.82
Std Dev 55.04

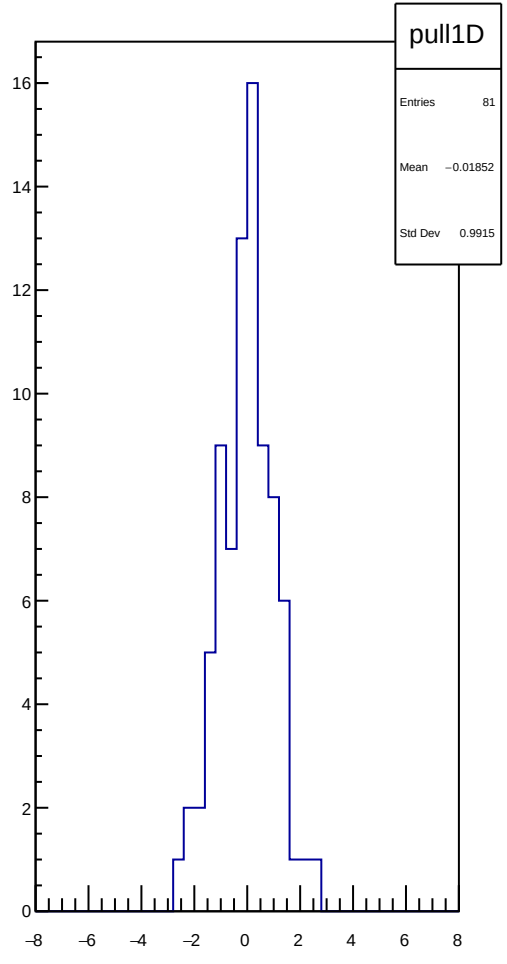

pull1D
Entries 81
Mean 0.01496
Std Dev 0.9471

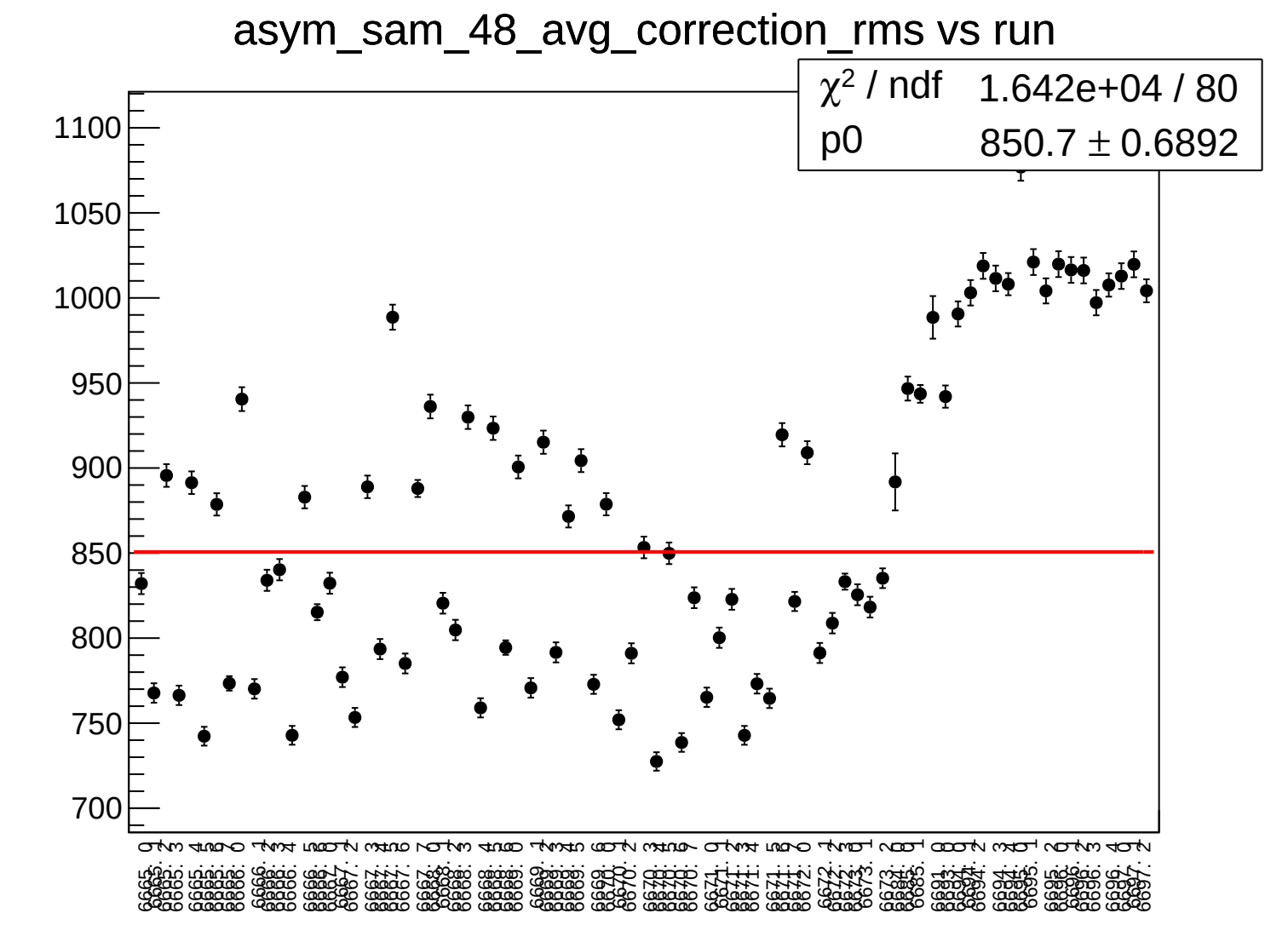

asym_sam_37_avg_rms vs run
χ² / ndf 3.639e+04 / 80
p0 397.8 ± 0.3245
600
550
500
450
400
350
300

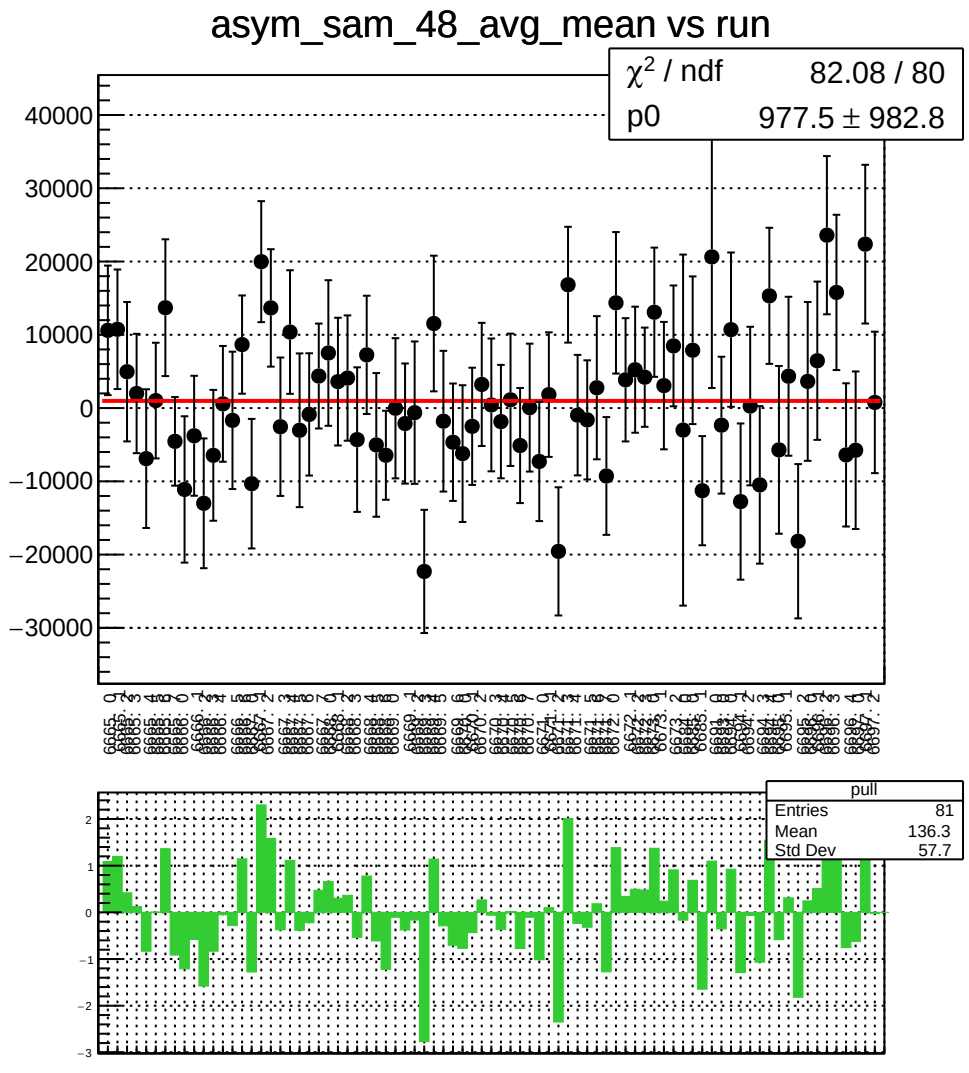

reg_asym_sam_48_avg_mean vs run
χ² / ndf 82.77 / 80
p0 110.5 ± 125.5
pull
Entries 81
Mean 96.88
Std Dev 50.58
pull1D
Entries 81
Mean −0.02719
Std Dev 1.011

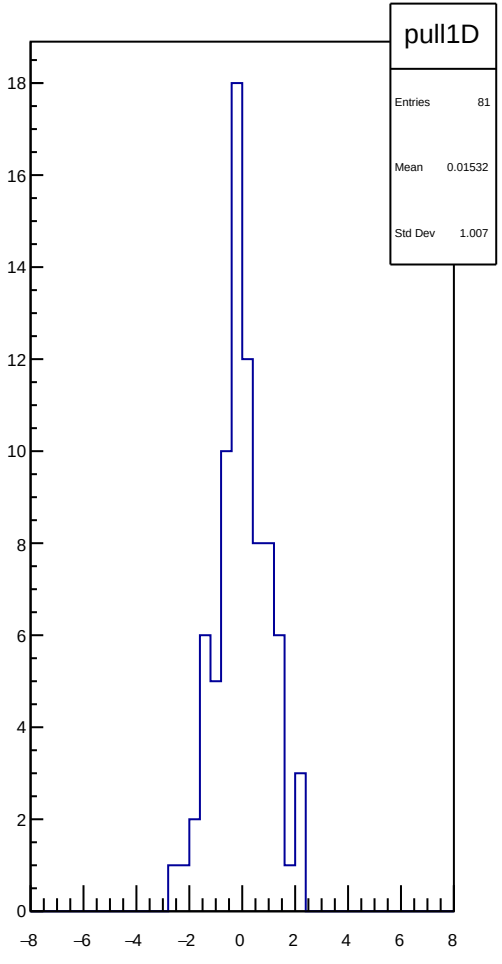

reg_asym_sam_48_avg_rms vs run
χ² / ndf 1.439e+04 / 80
p0 109.6 ± 0.08872
140
130
120
110
100

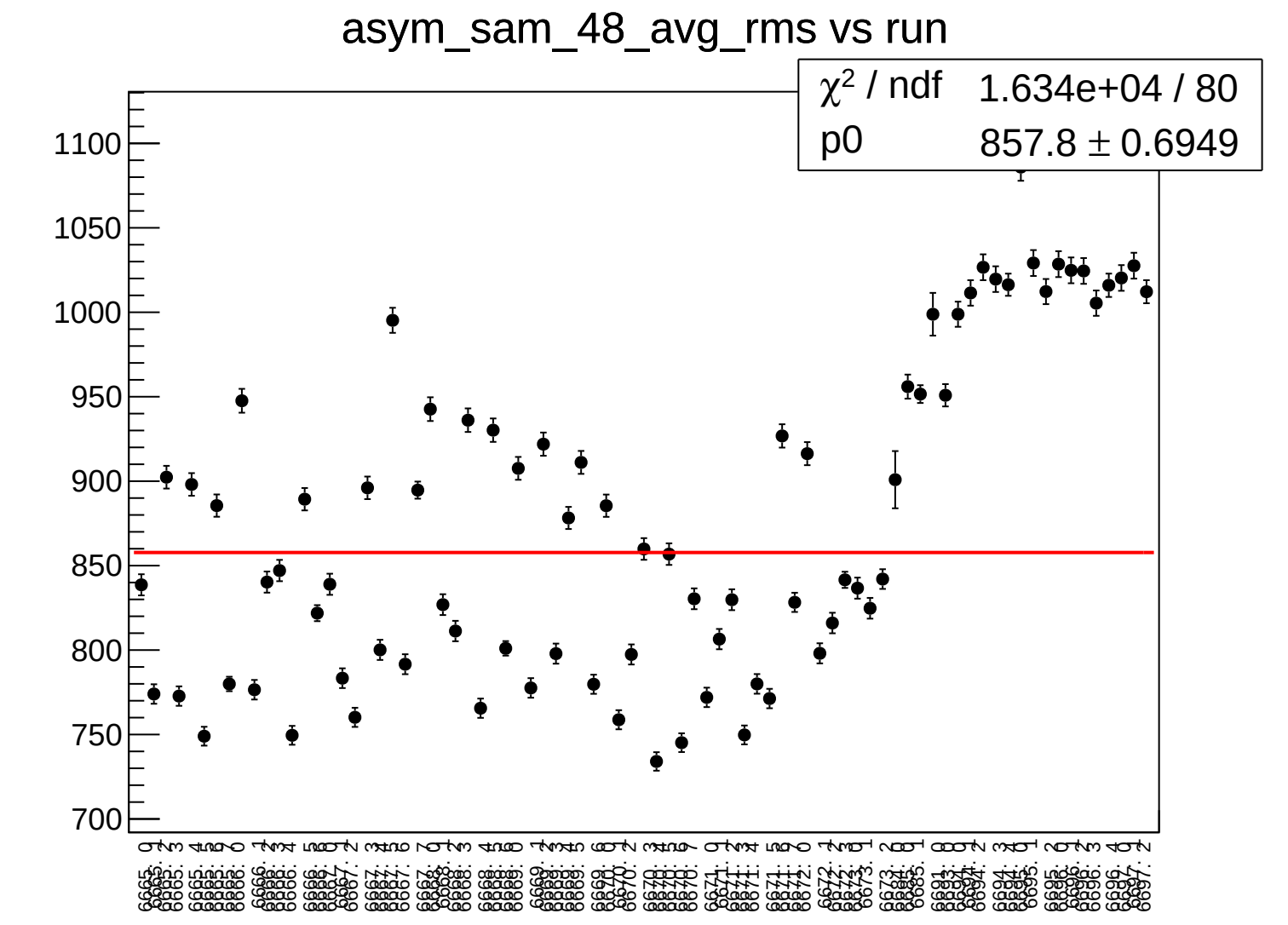

asym_sam_48_avg_correction_mean vs run
χ² / ndf 79.66 / 80
p0 −877.1± 974.7
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 81
Mean 131.8
Std Dev 58.15
3
2
1
0
−1
−2

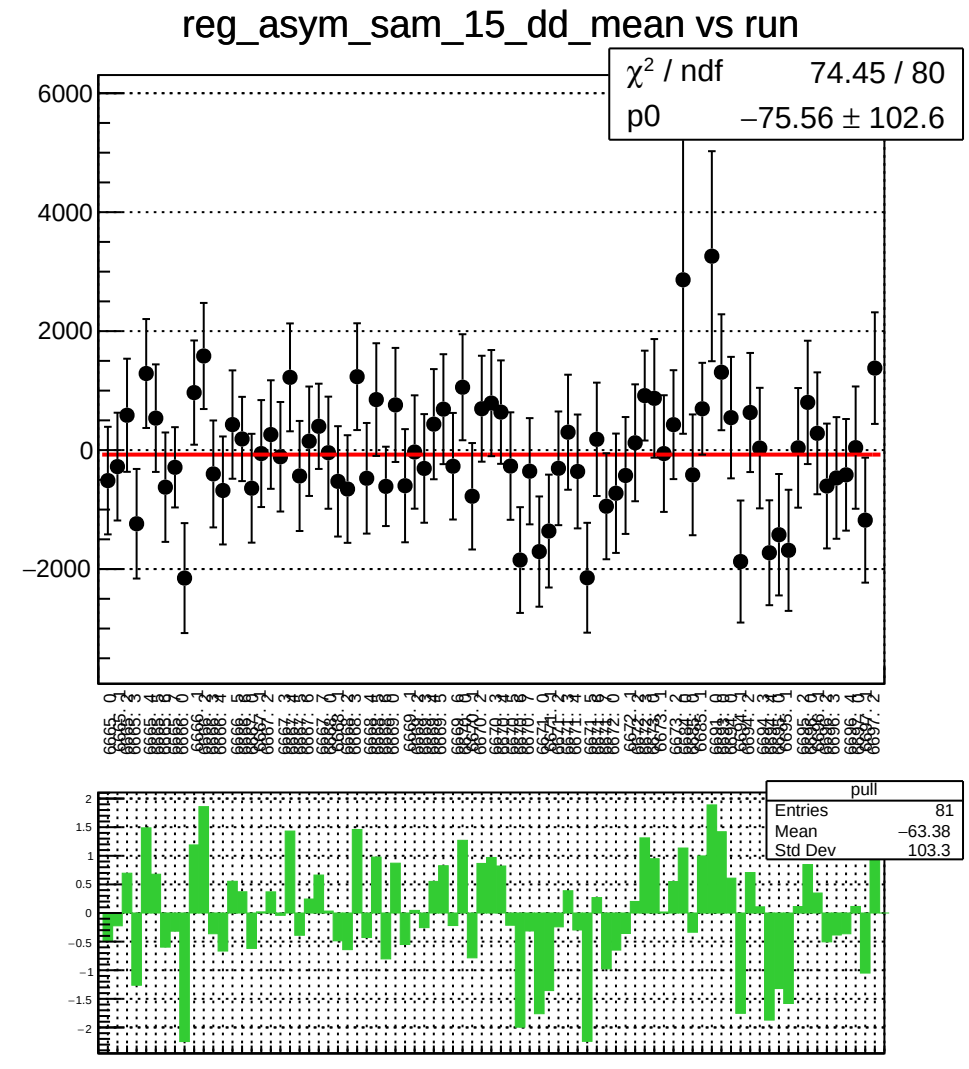

pull1D
Entries 81
Mean −0.01852
Std Dev 0.9915
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

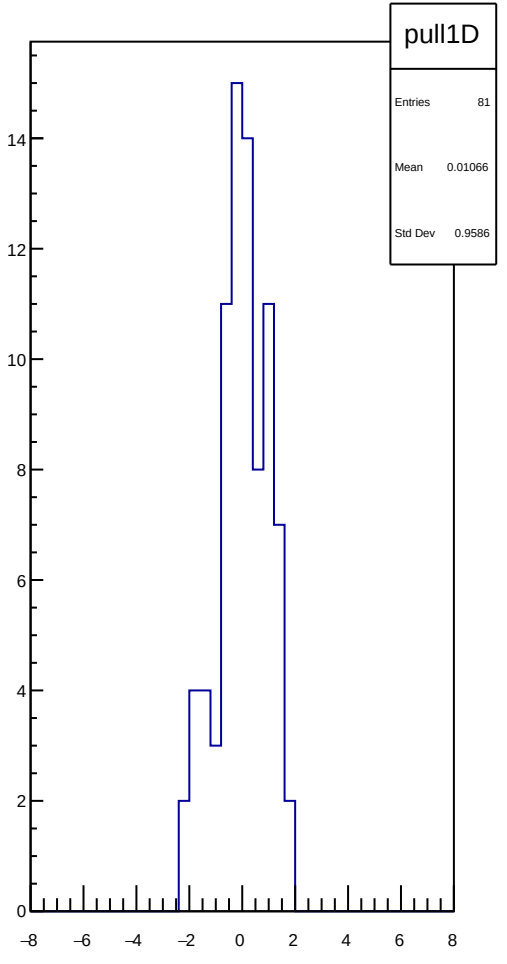

asym_sam_48_avg_correction_rms vs run
χ² / ndf 1.642e+04 / 80
p0 850.7 ± 0.6892
1100
1050
1000
950
900
850
800
750
700

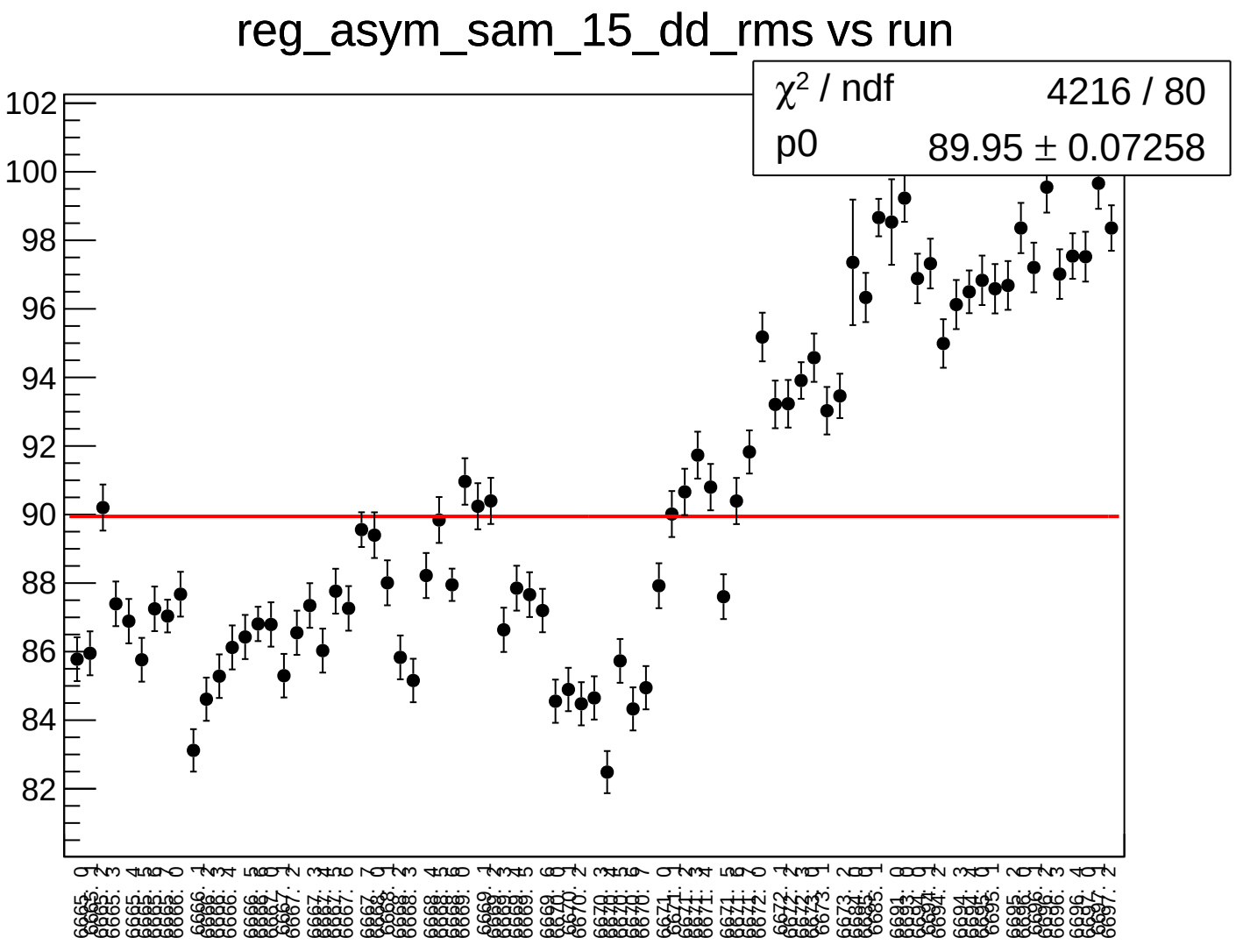

asym_sam_48_avg_mean vs run
χ² / ndf 82.08 / 80
p0 977.5 ± 982.8
pull
Entries 81
Mean 136.3
Std Dev 57.7

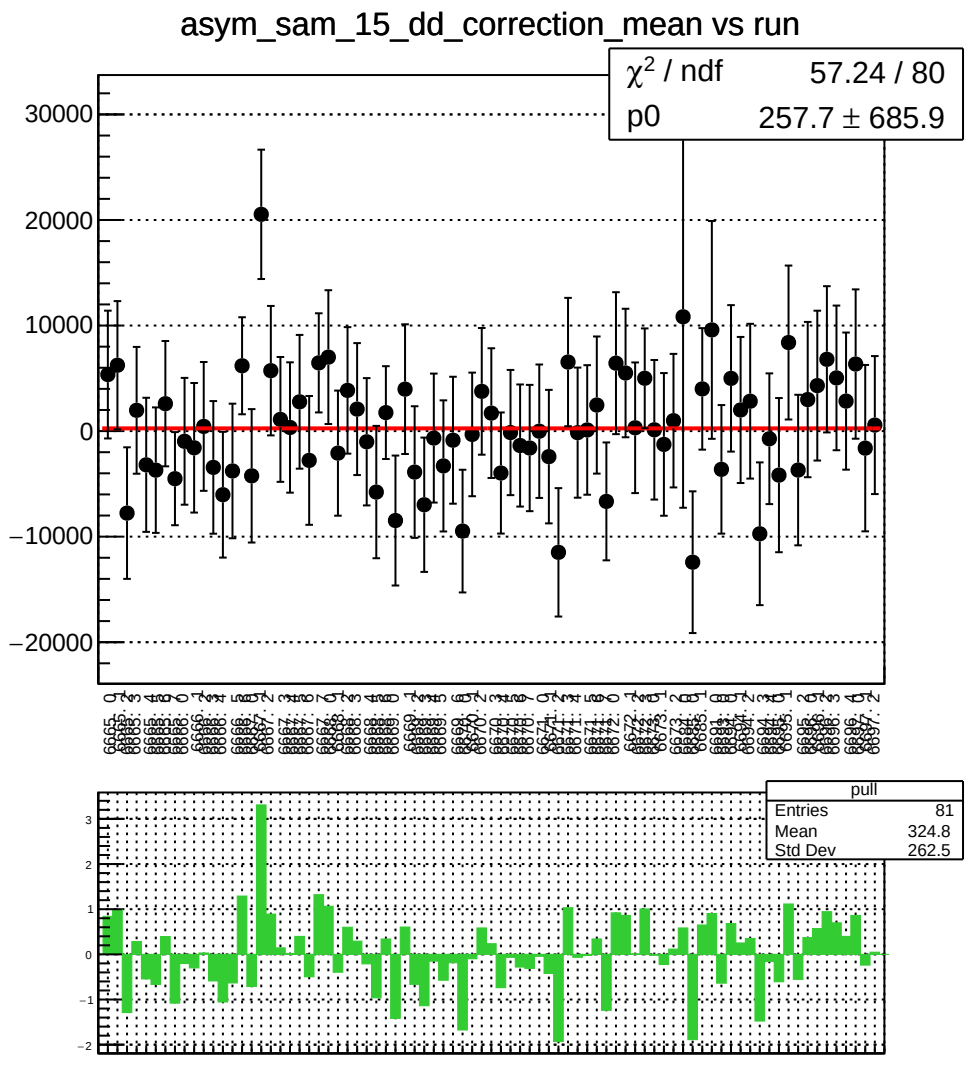

pull1D
Entries 81
Mean 0.01532
Std Dev 1.007

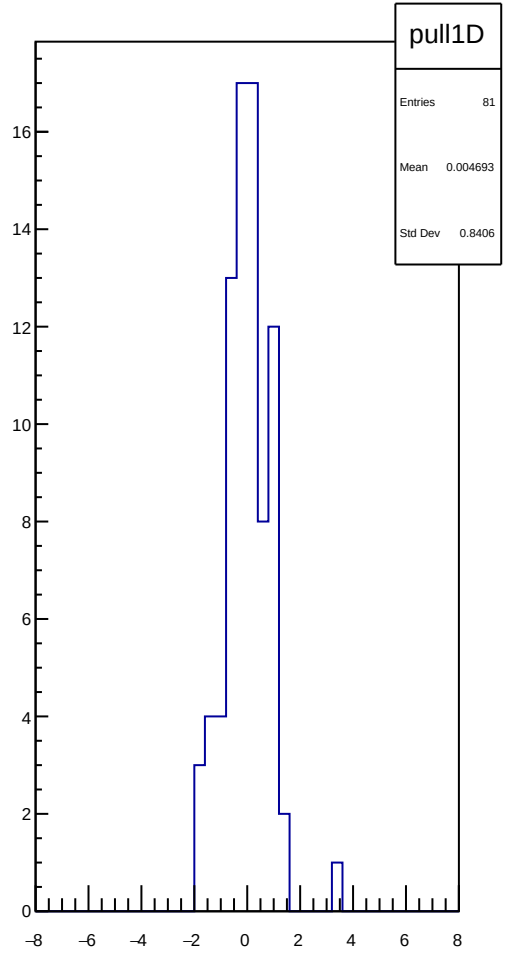

asym_sam_48_avg_rms vs run
χ² / ndf 1.634e+04 / 80
p0 857.8 ± 0.6949
1100
1050
1000
950
900
850
800
750
700

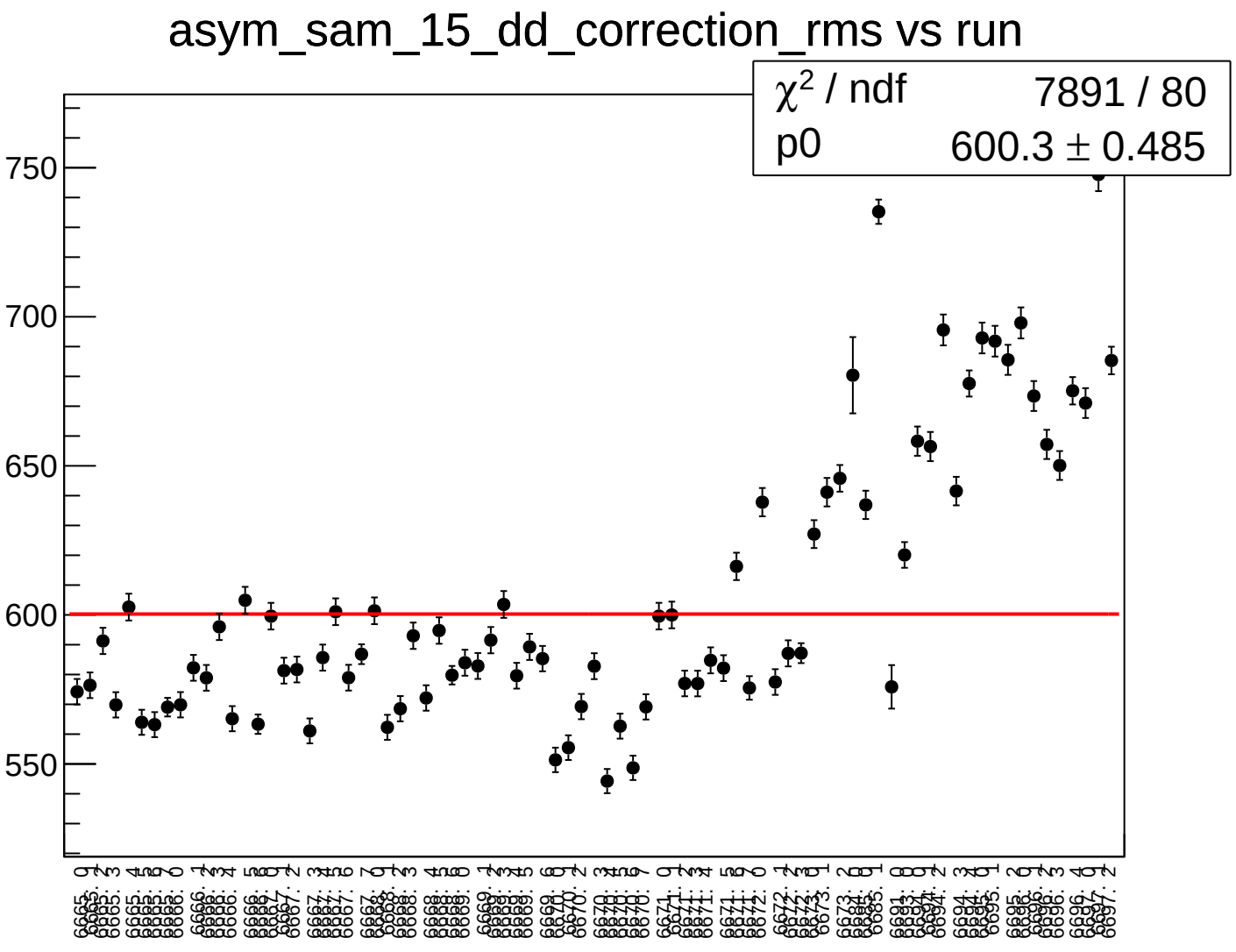

reg_asym_sam_15_dd_mean vs run
χ² / ndf 74.45 / 80
p0 −75.56 ± 102.6
pull
Entries 81
Mean −63.38
Std Dev 103.3

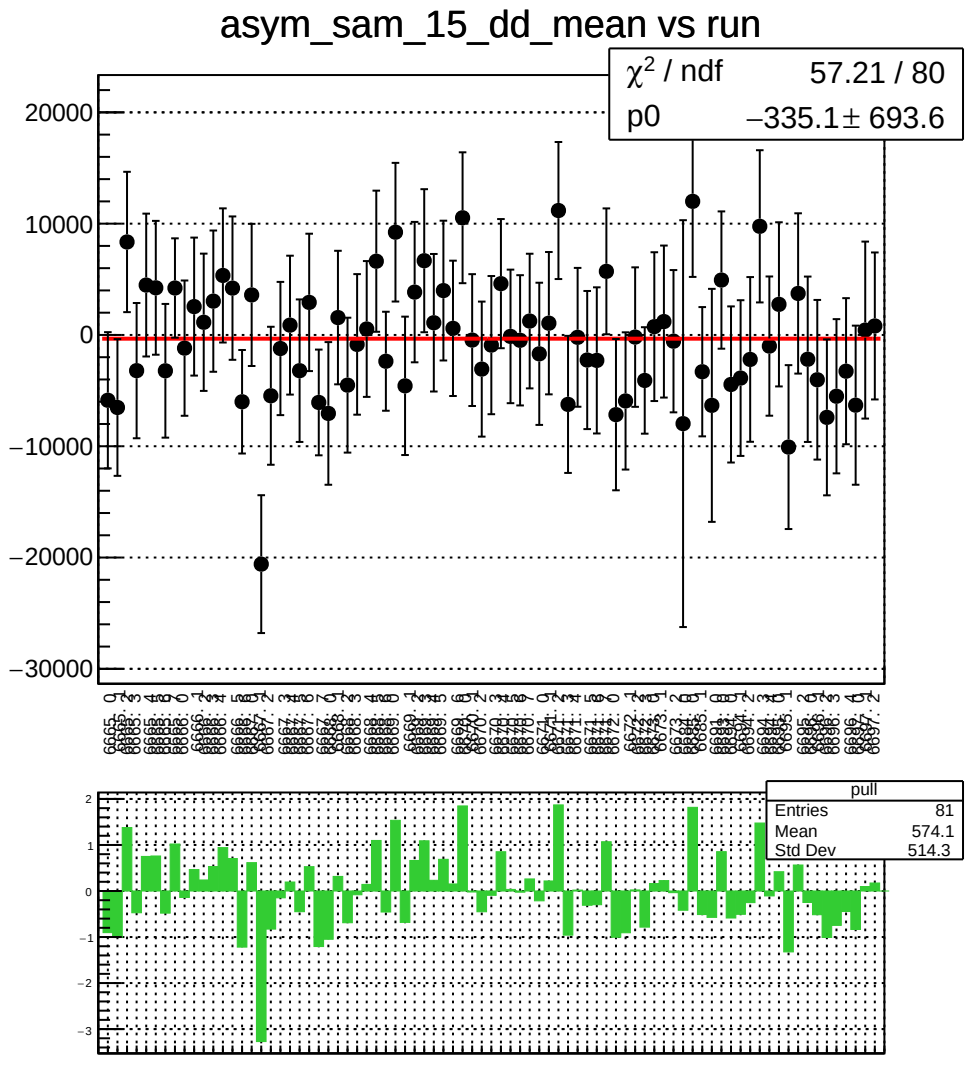

pull1D
Entries 81
Mean 0.01066
Std Dev 0.9586

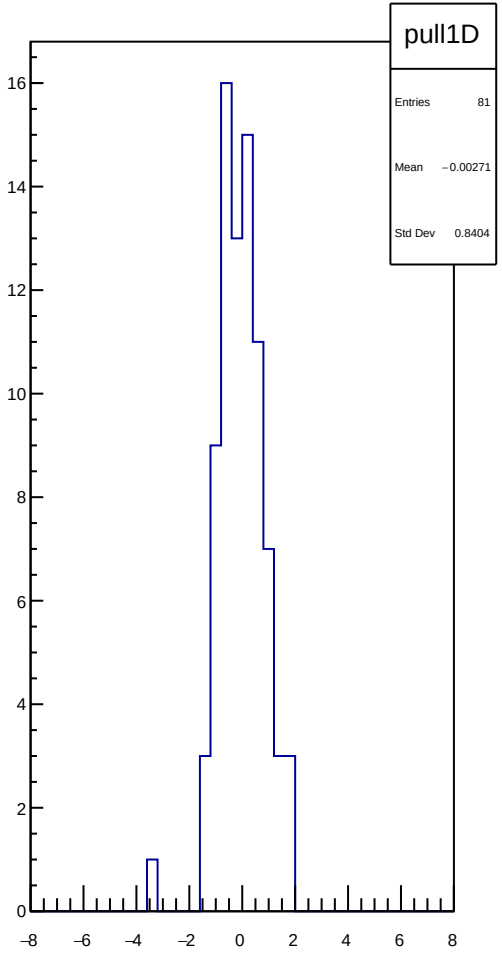

reg_asym_sam_15_dd_rms vs run
χ² / ndf 4216 / 80
p0 89.95 ± 0.07258
102
100
98
96
94
92
90
88
86
84
82

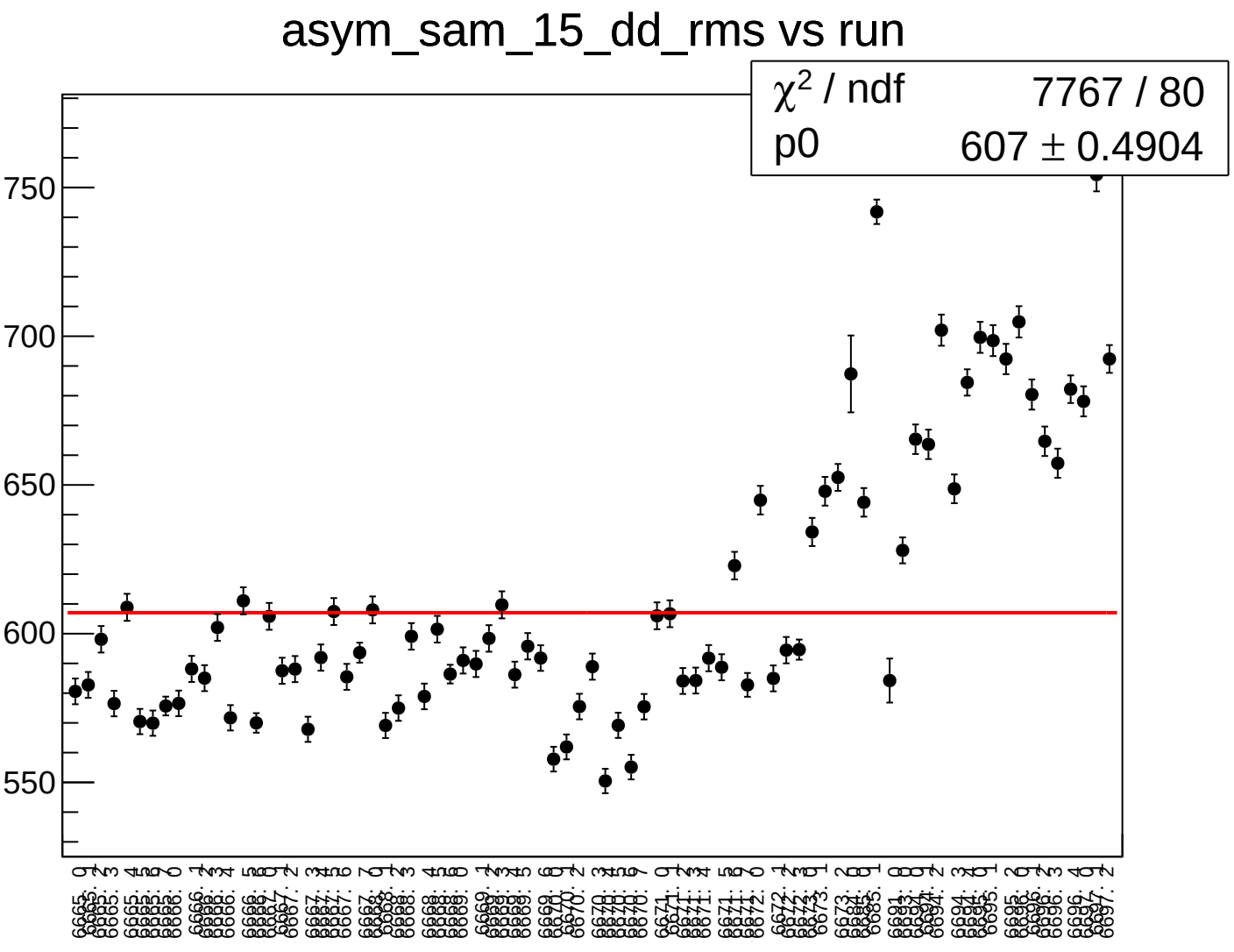

asym_sam_15_dd_correction_mean vs run
χ² / ndf 57.24 / 80
p0 257.7 ± 685.9
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 324.8
Std Dev 262.5
3
2
1
0
−1
−2

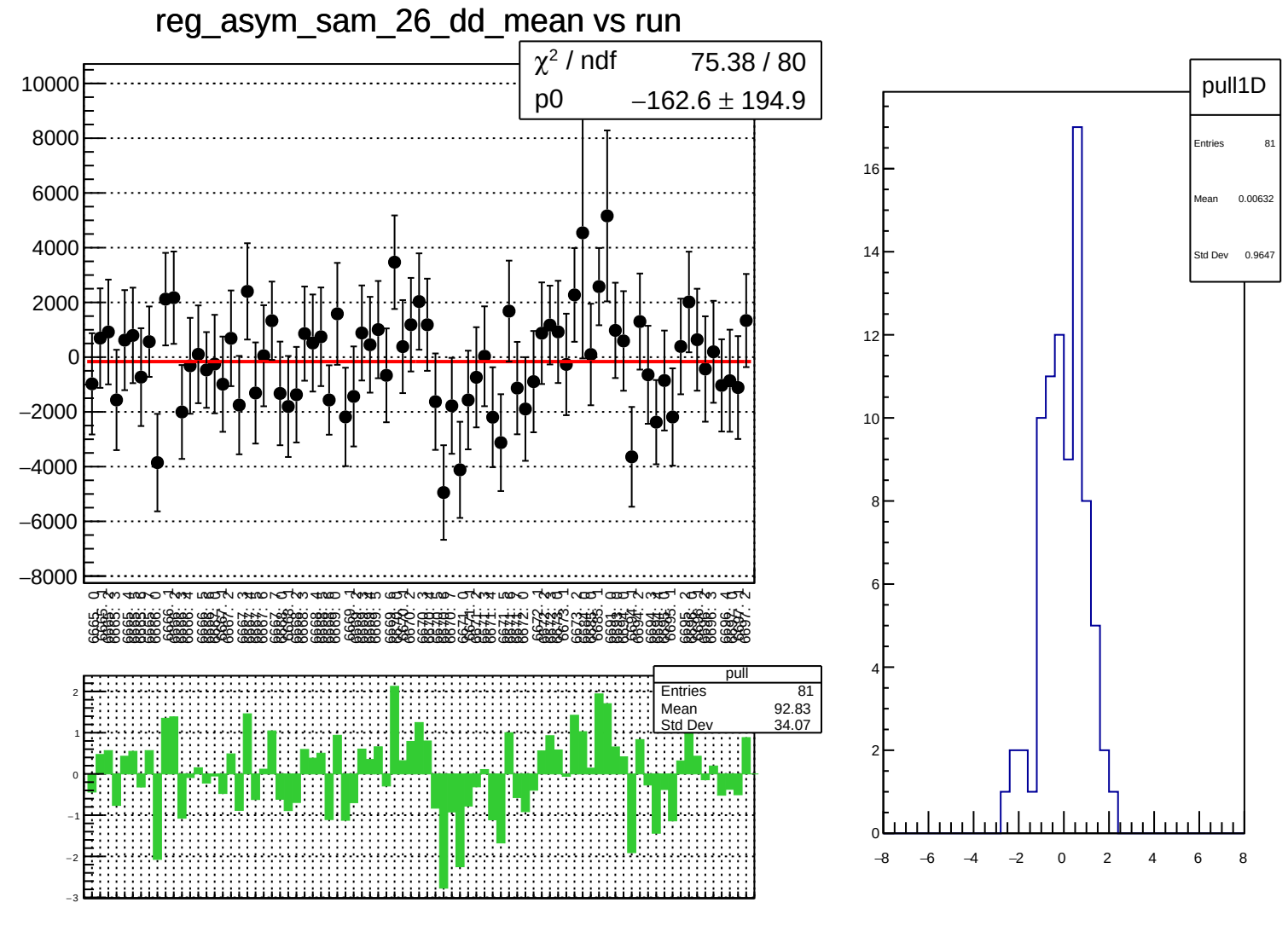

pull1D
Entries 81
Mean 0.004693
Std Dev 0.8406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

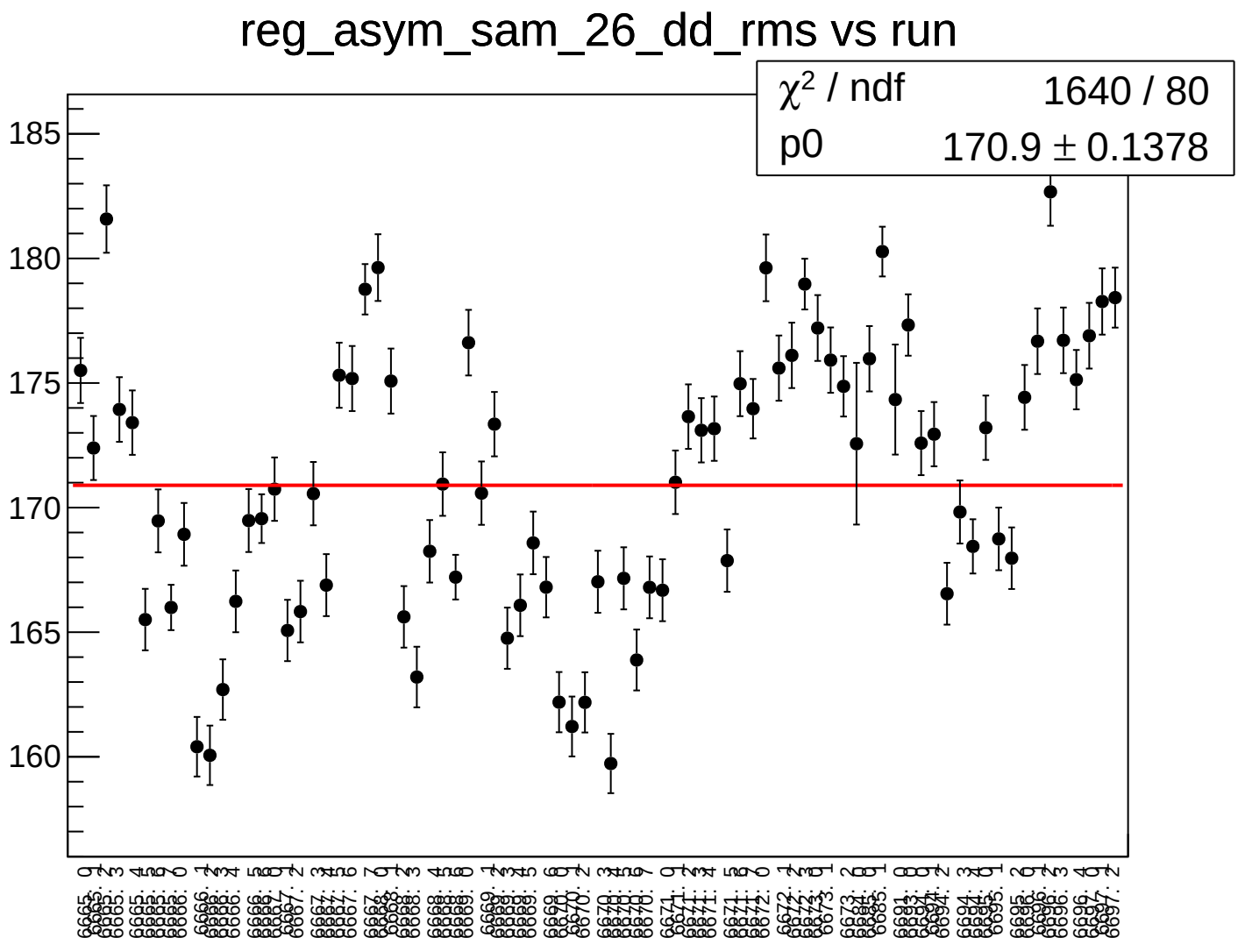

asym_sam_15_dd_correction_rms vs run
χ² / ndf 7891 / 80
p0 600.3 ± 0.485
750
700
650
600
550

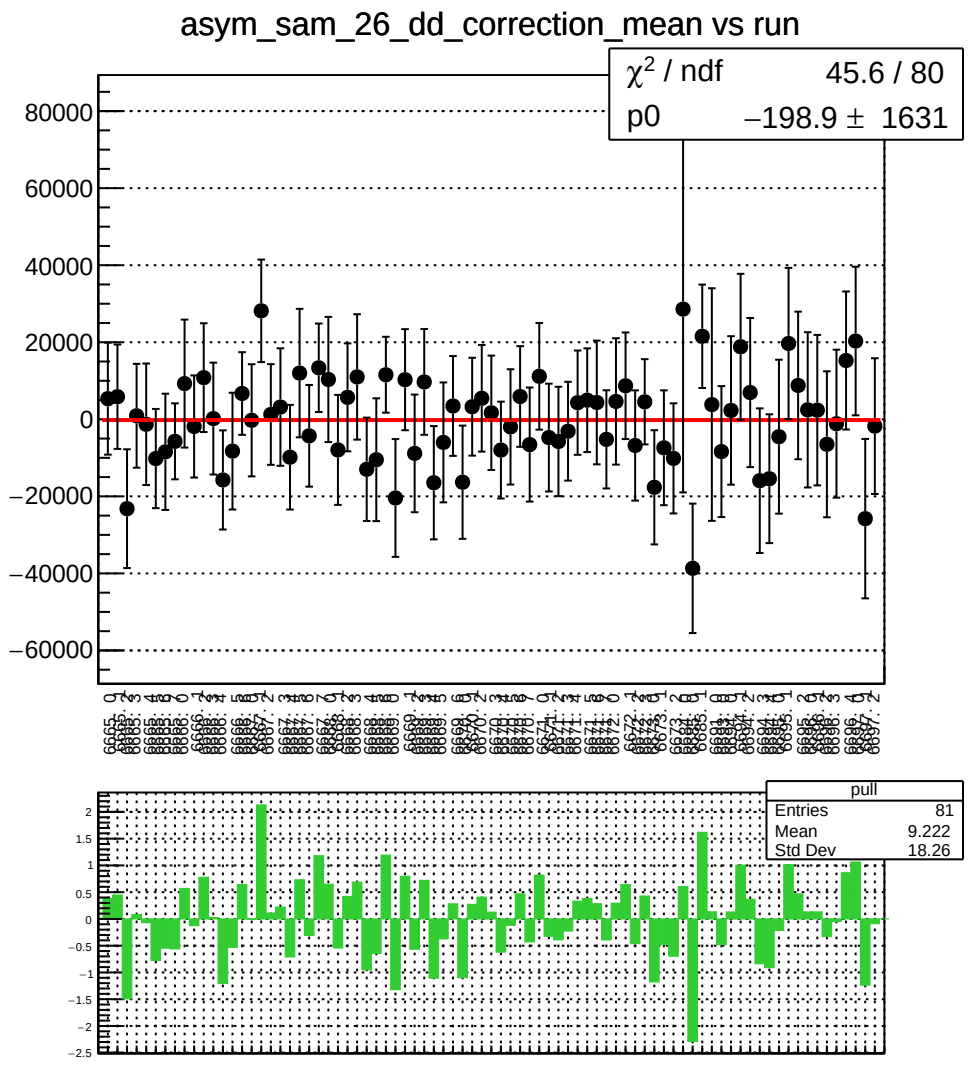

asym_sam_15_dd_mean vs run
χ² / ndf 57.21 / 80
p0 −335.1± 693.6
pull
Entries 81
Mean 574.1
Std Dev 514.3

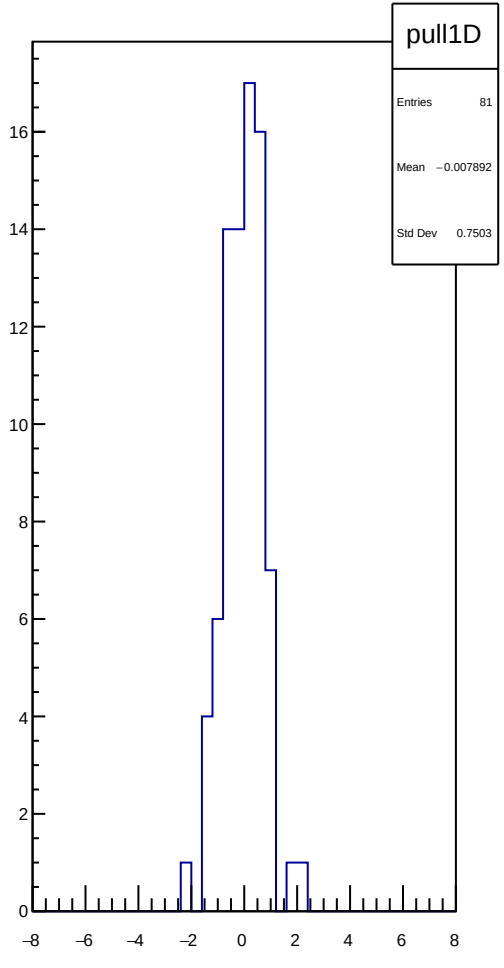

pull1D
Entries 81
Mean −0.00271
Std Dev 0.8404

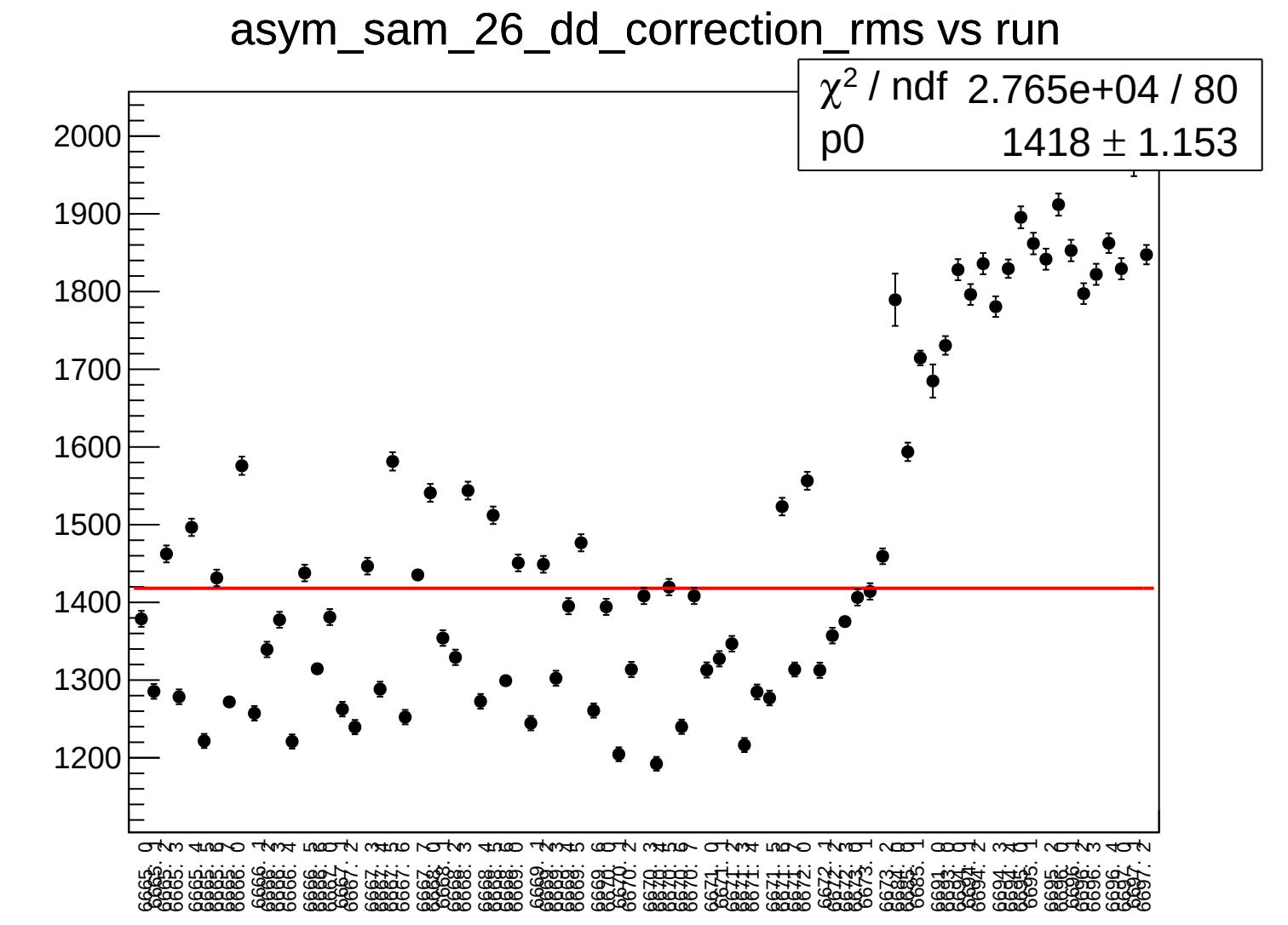

asym_sam_15_dd_rms vs run
χ² / ndf 7767 / 80
p0 607 ± 0.4904
750
700
650
600
550

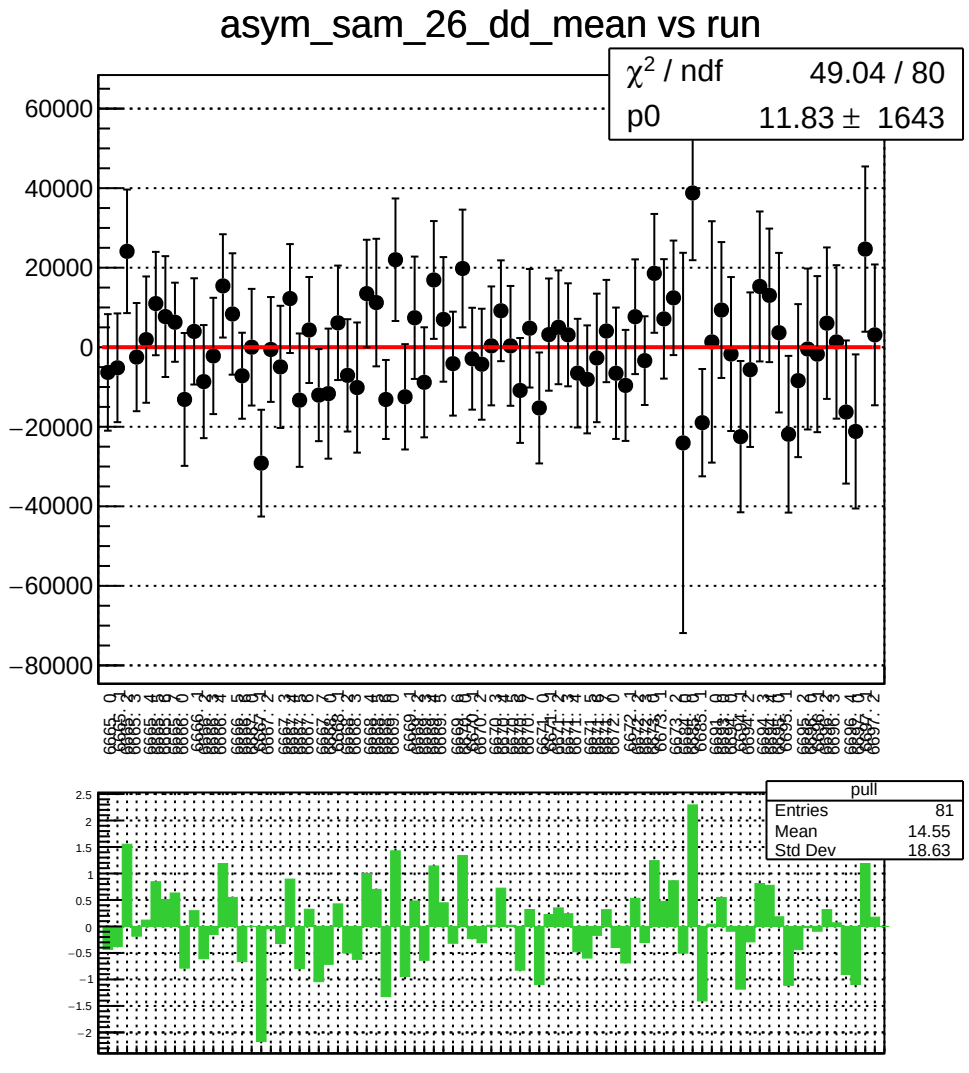

reg_asym_sam_26_dd_mean vs run
χ² / ndf 75.38 / 80
p0 −162.6 ± 194.9
pull
Entries 81
Mean 92.83
Std Dev 34.07
pull1D
Entries 81
Mean 0.00632
Std Dev 0.9647

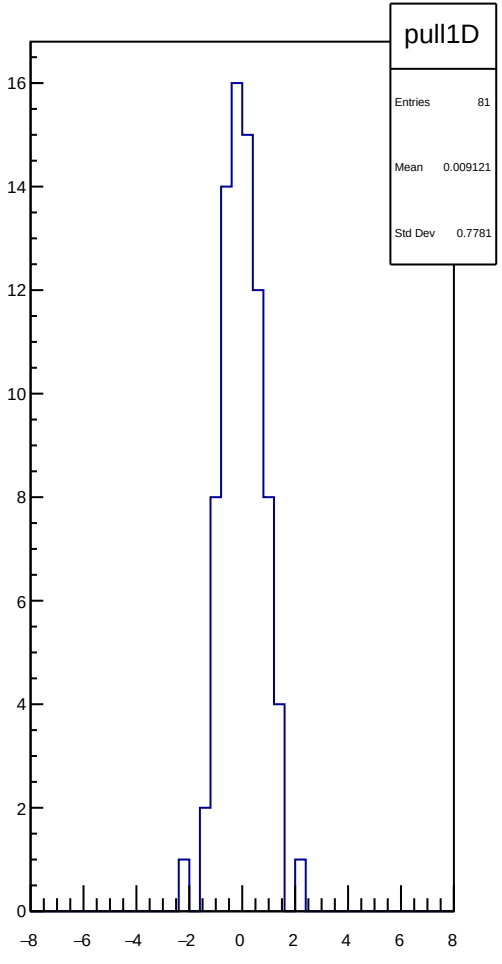

reg_asym_sam_26_dd_rms vs run
χ² / ndf 1640 / 80
p0 170.9 ± 0.1378
185
180
175
170
165
160

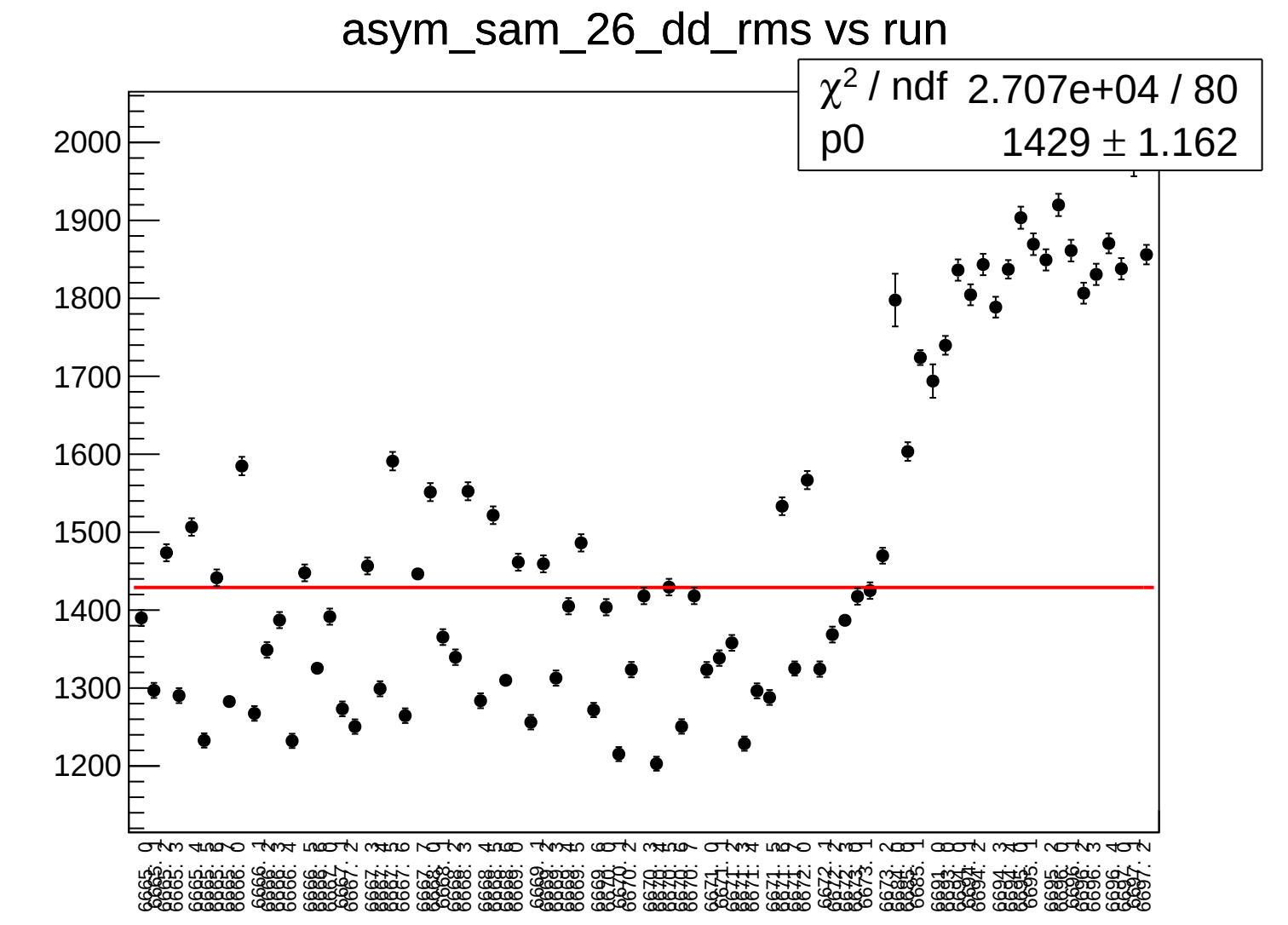

asym_sam_26_dd_correction_mean vs run
χ² / ndf 45.6 / 80
p0 −198.9 ± 1631
pull
Entries 81
Mean 9.222
Std Dev 18.26

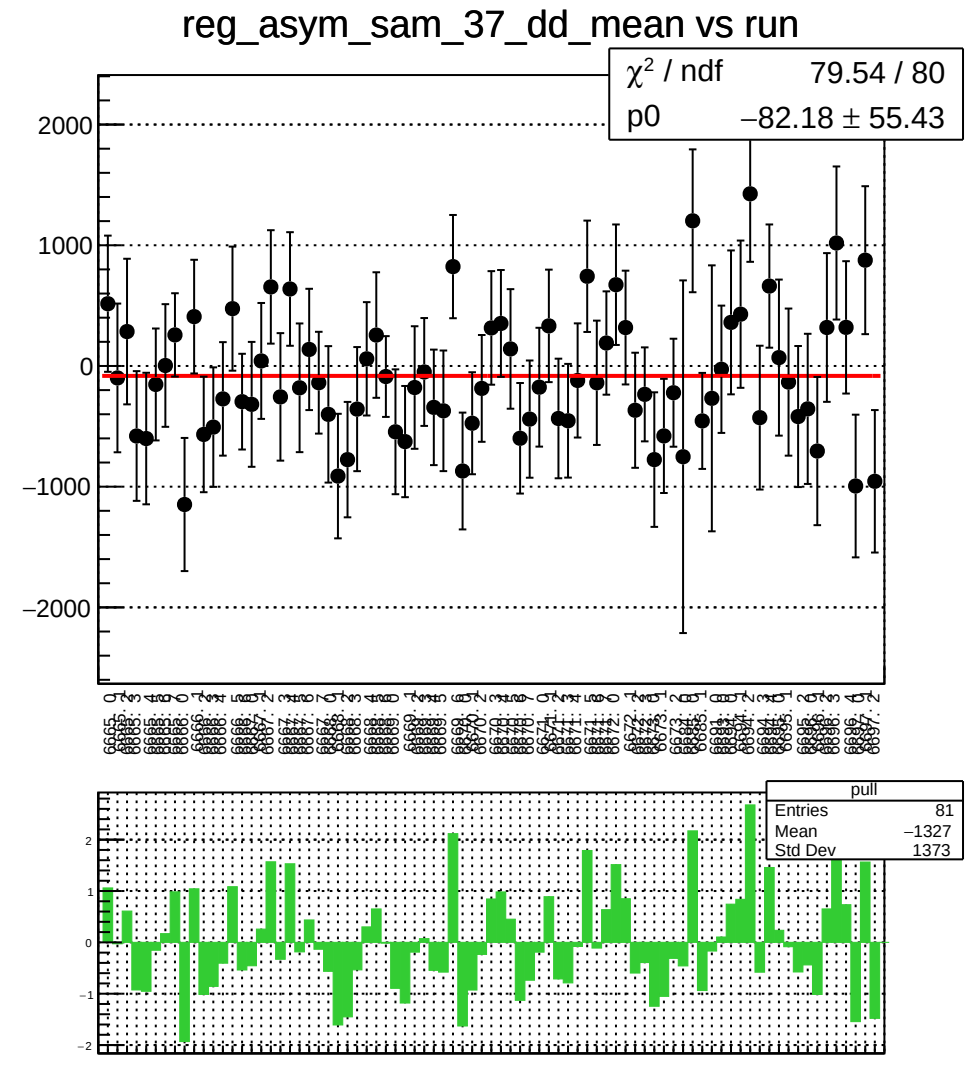

pull1D
Entries 81
Mean −0.007892
Std Dev 0.7503

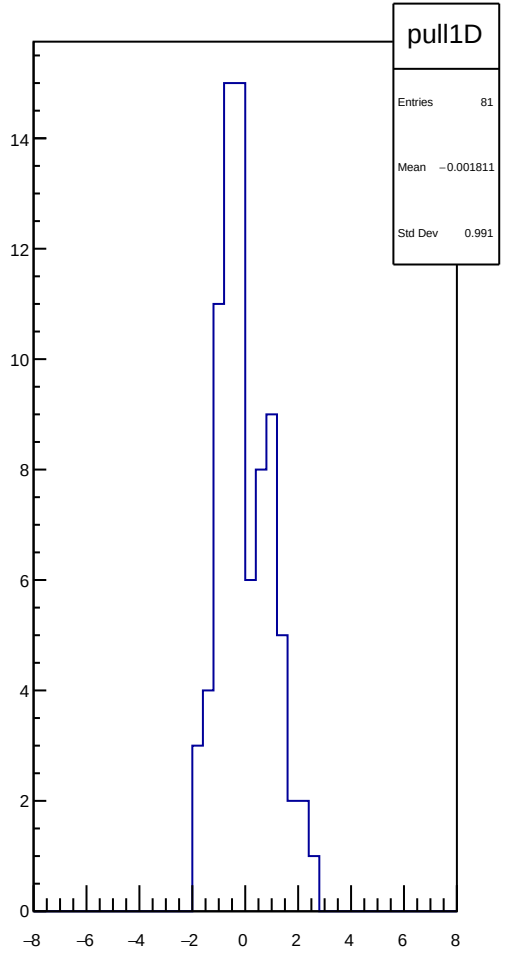

asym_sam_26_dd_correction_rms vs run
χ² / ndf 2.765e+04 / 80
p0 1418 ± 1.153
2000
1900
1800
1700
1600
1500
1400
1300
1200

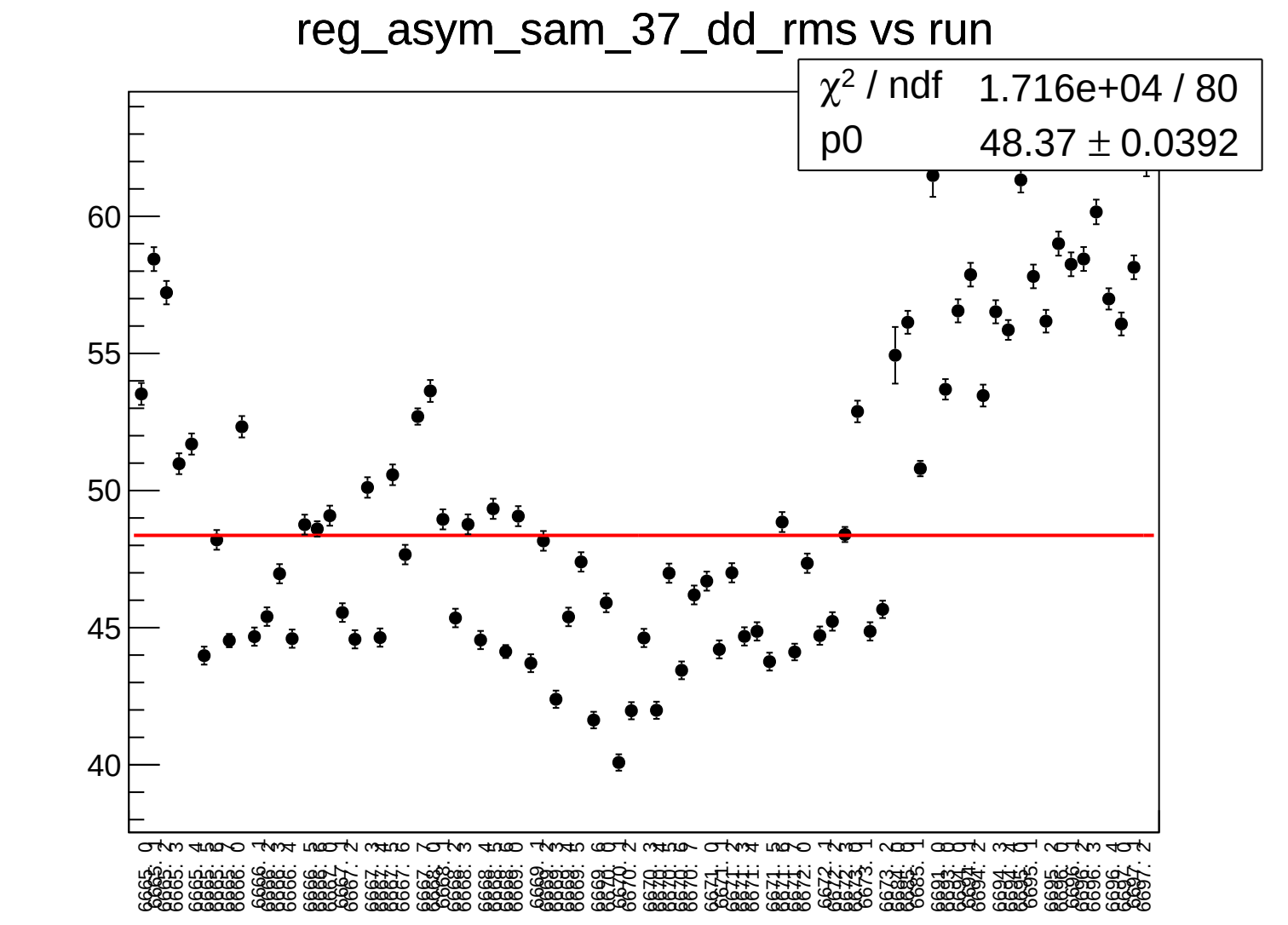

asym_sam_26_dd_mean vs run
χ² / ndf 49.04 / 80
p0 11.83 ± 1643
pull
Entries 81
Mean 14.55
Std Dev 18.63

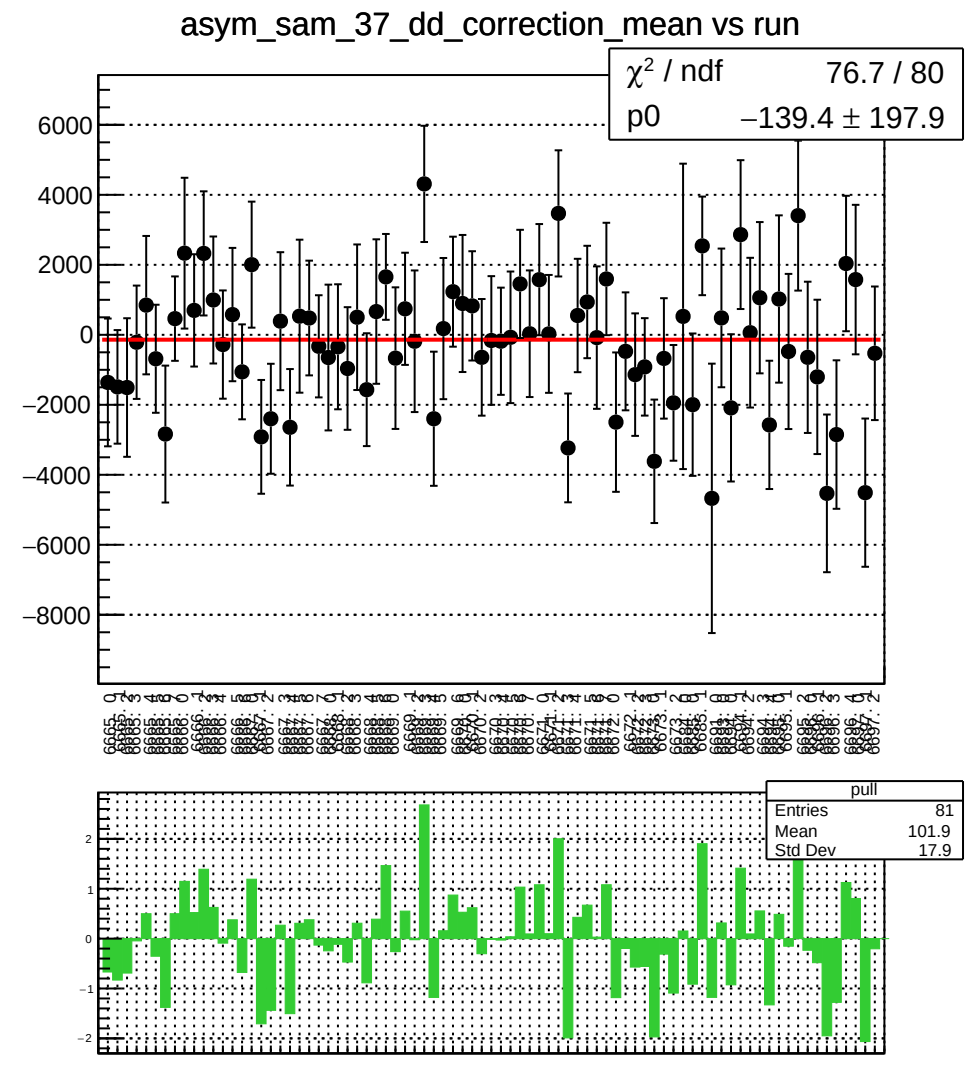

pull1D
Entries 81
Mean 0.009121
Std Dev 0.7781

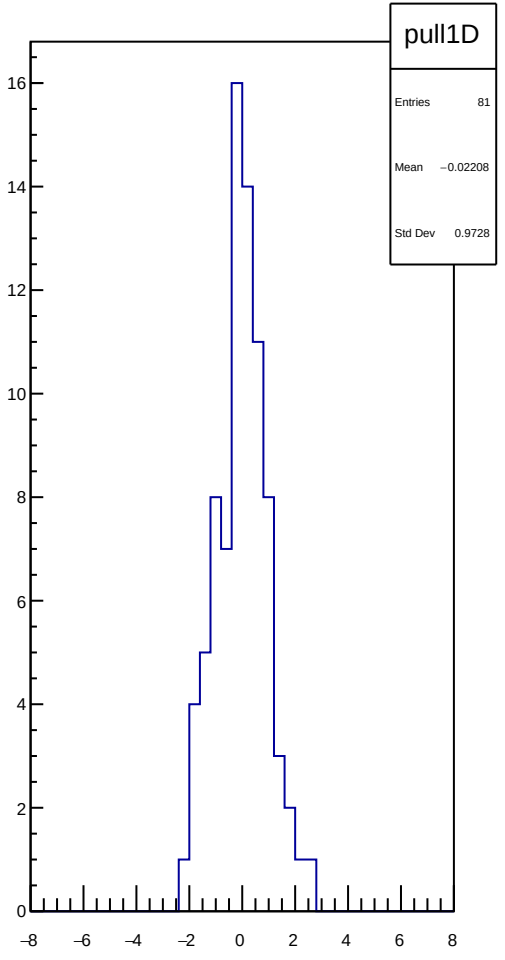

asym_sam_26_dd_rms vs run
χ² / ndf 2.707e+04 / 80
p0 1429 ± 1.162
2000
1900
1800
1700
1600
1500
1400
1300
1200

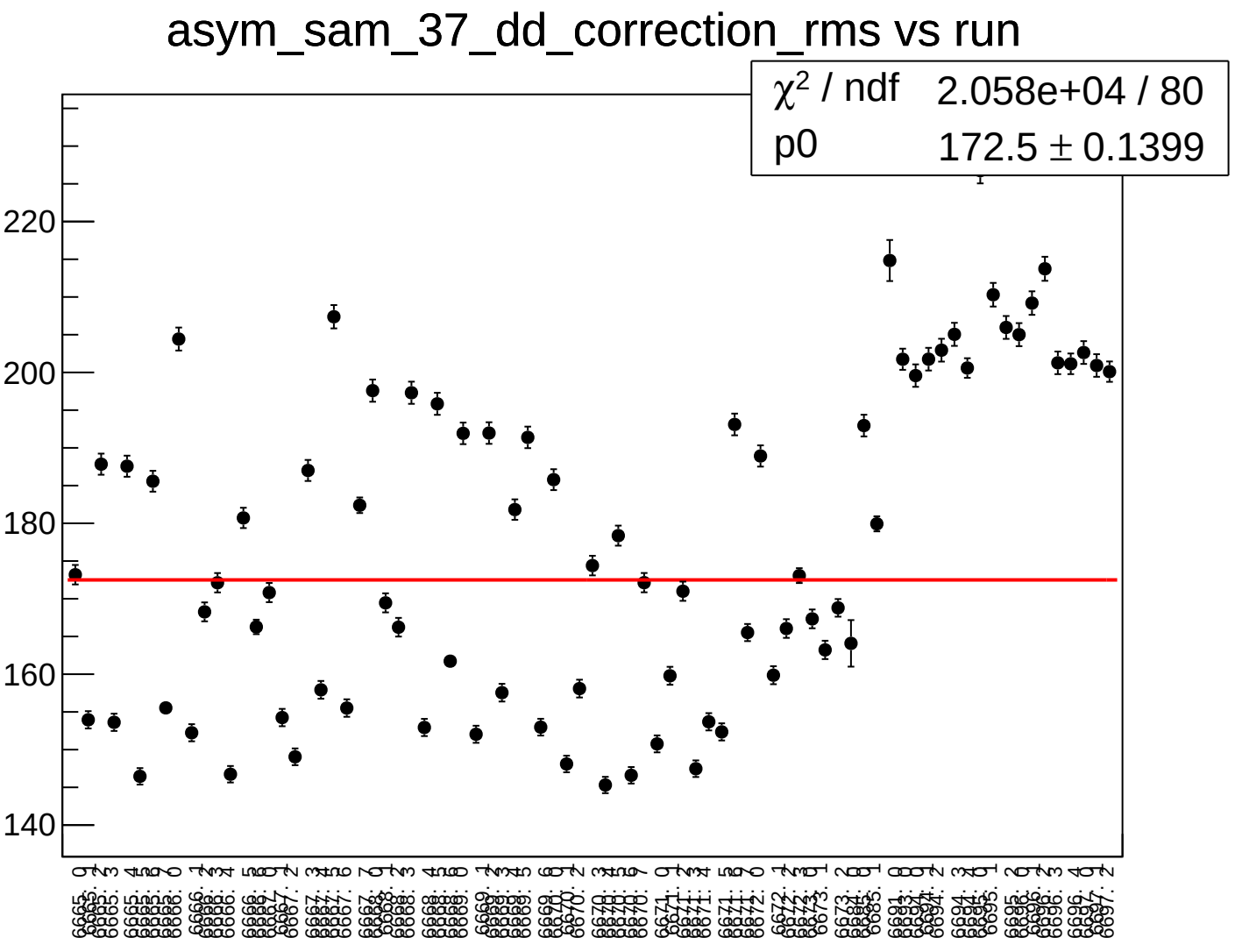

reg_asym_sam_37_dd_mean vs run
χ² / ndf 79.54 / 80
p0 −82.18 ± 55.43
2000
1000
0
−1000
−2000
pull
Entries 81
Mean −1327
Std Dev 1373
2
1
0
−1
−2

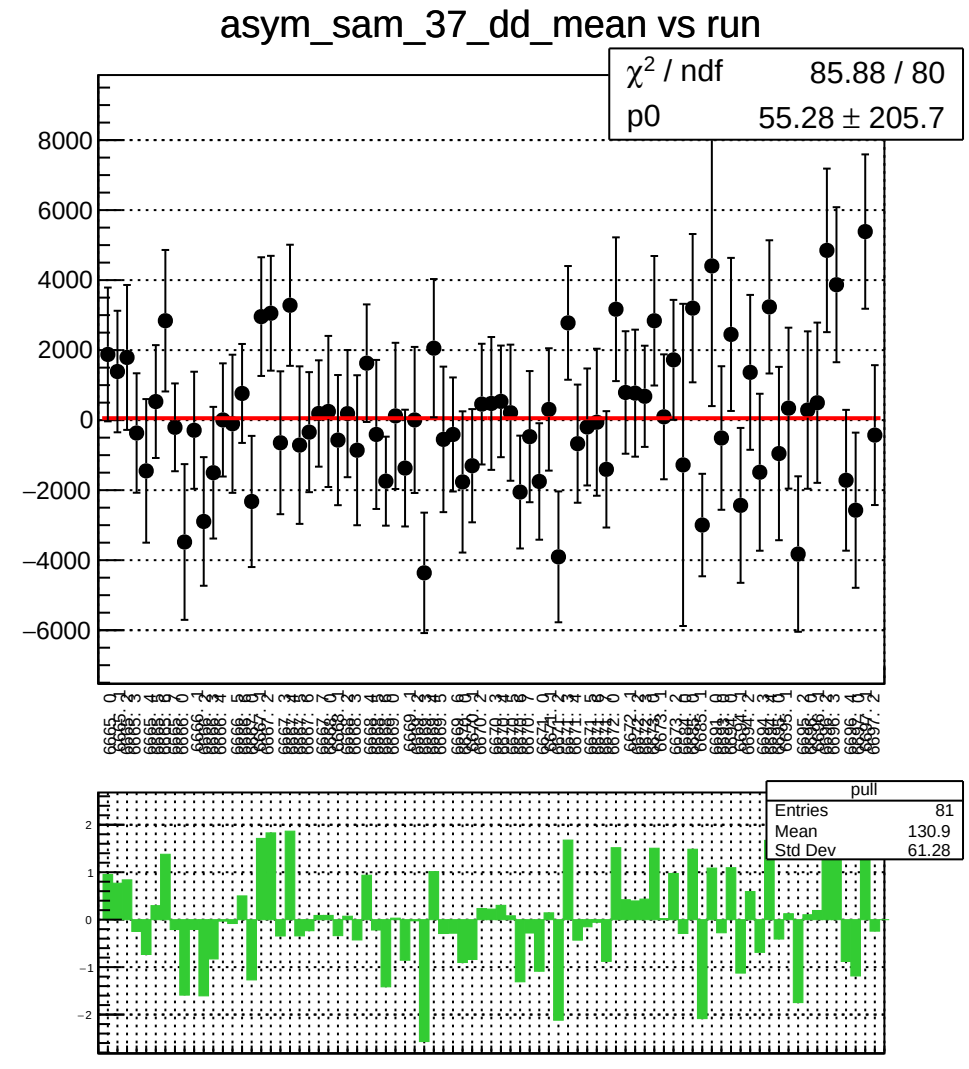

pull1D
Entries 81
Mean −0.001811
Std Dev 0.991
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

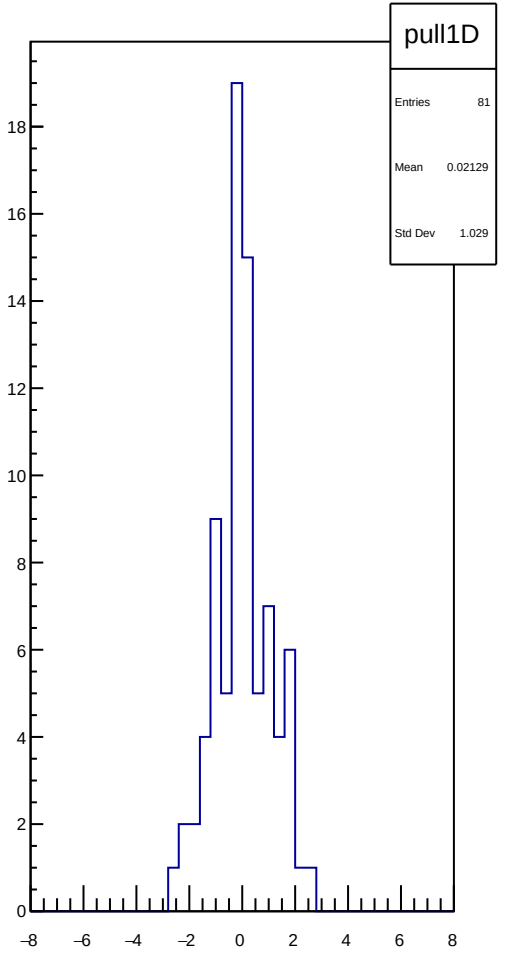

reg_asym_sam_37_dd_rms vs run
χ² / ndf 1.716e+04 / 80
p0 48.37 ± 0.0392
60
55
50
45
40

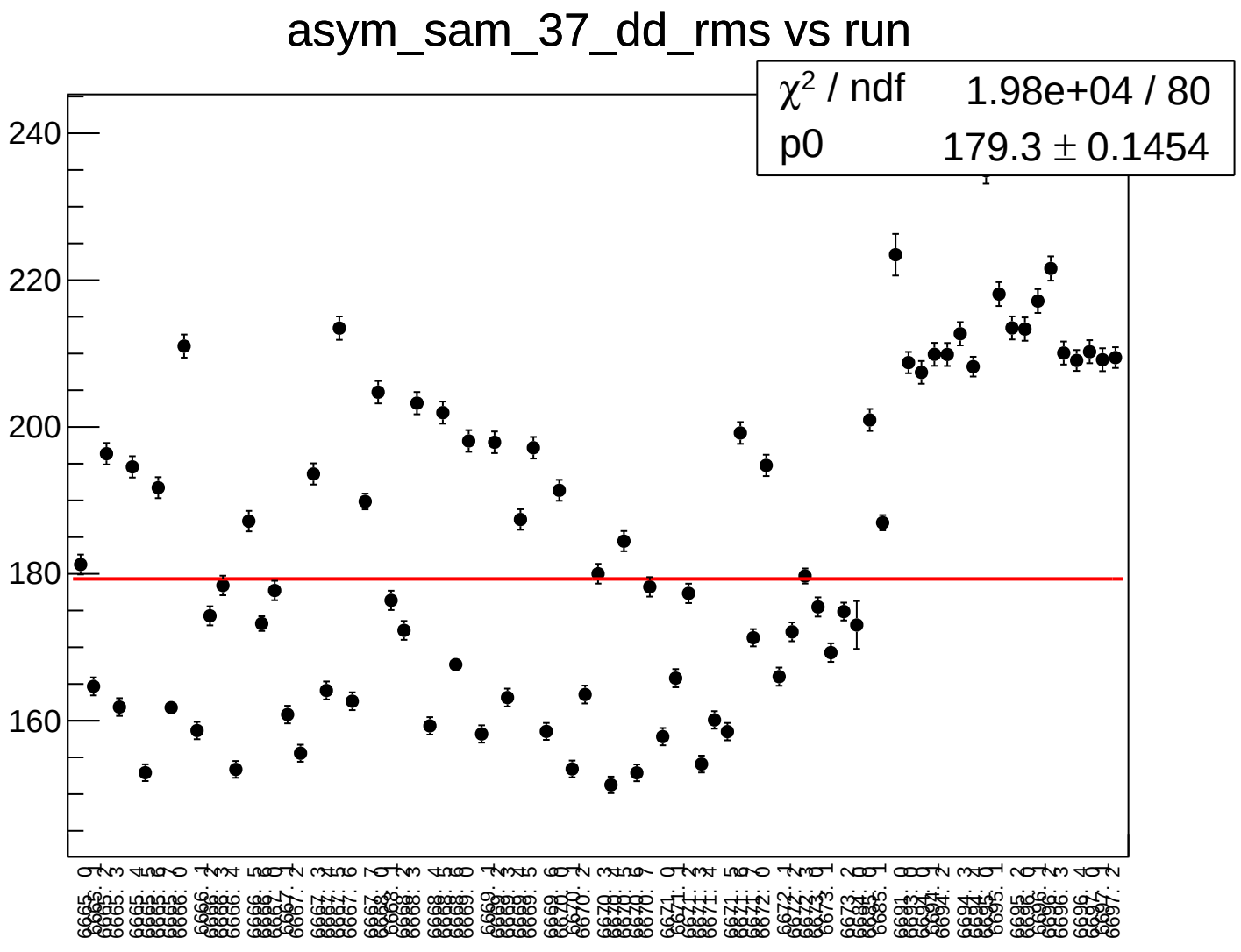

asym_sam_37_dd_correction_mean vs run
χ² / ndf 76.7 / 80
p0 −139.4 ± 197.9
pull
Entries 81
Mean 101.9
Std Dev 17.9

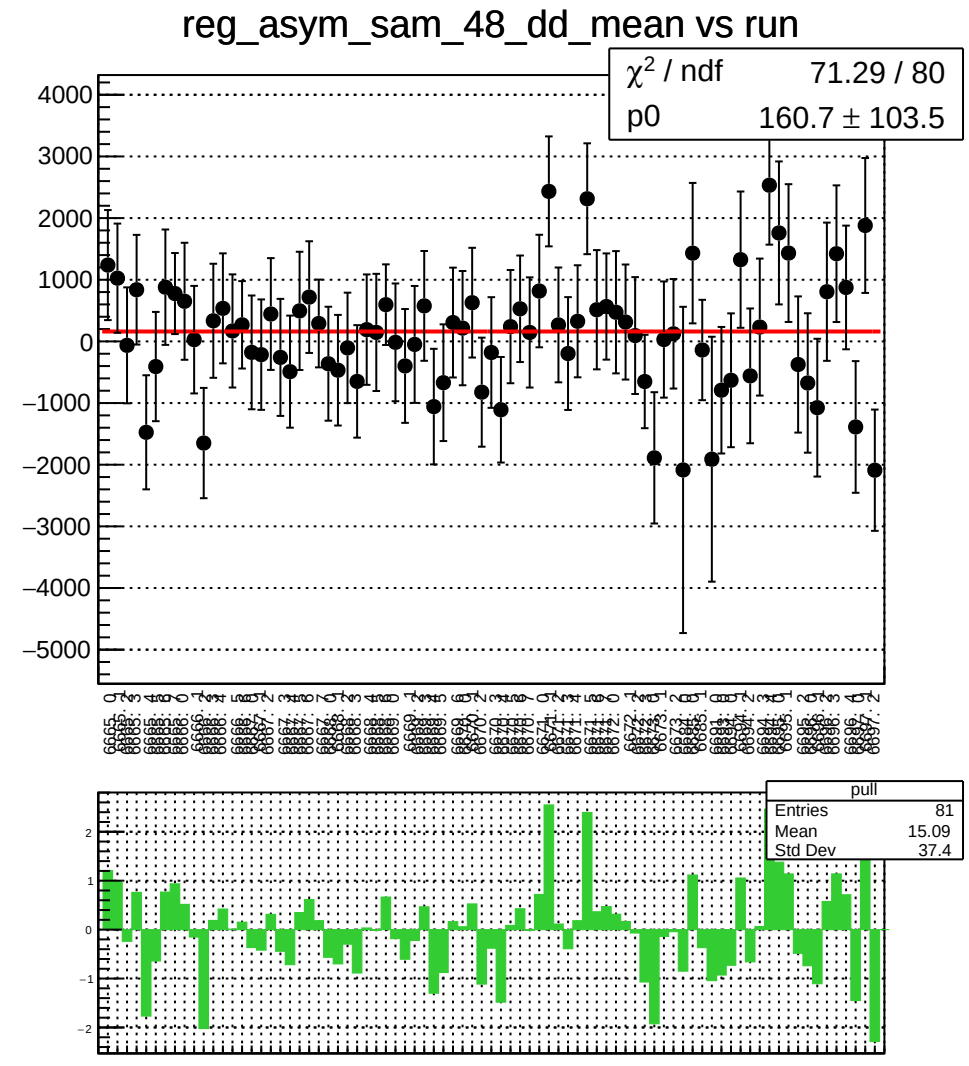

pull1D
Entries 81
Mean −0.02208
Std Dev 0.9728

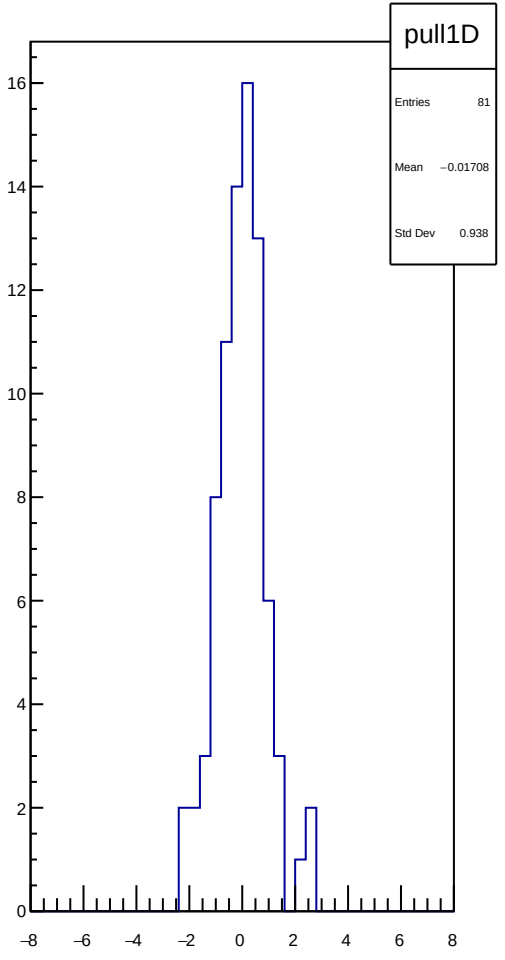

asym_sam_37_dd_correction_rms vs run
χ² / ndf 2.058e+04 / 80
p0 172.5 ± 0.1399
220
200
180
160
140

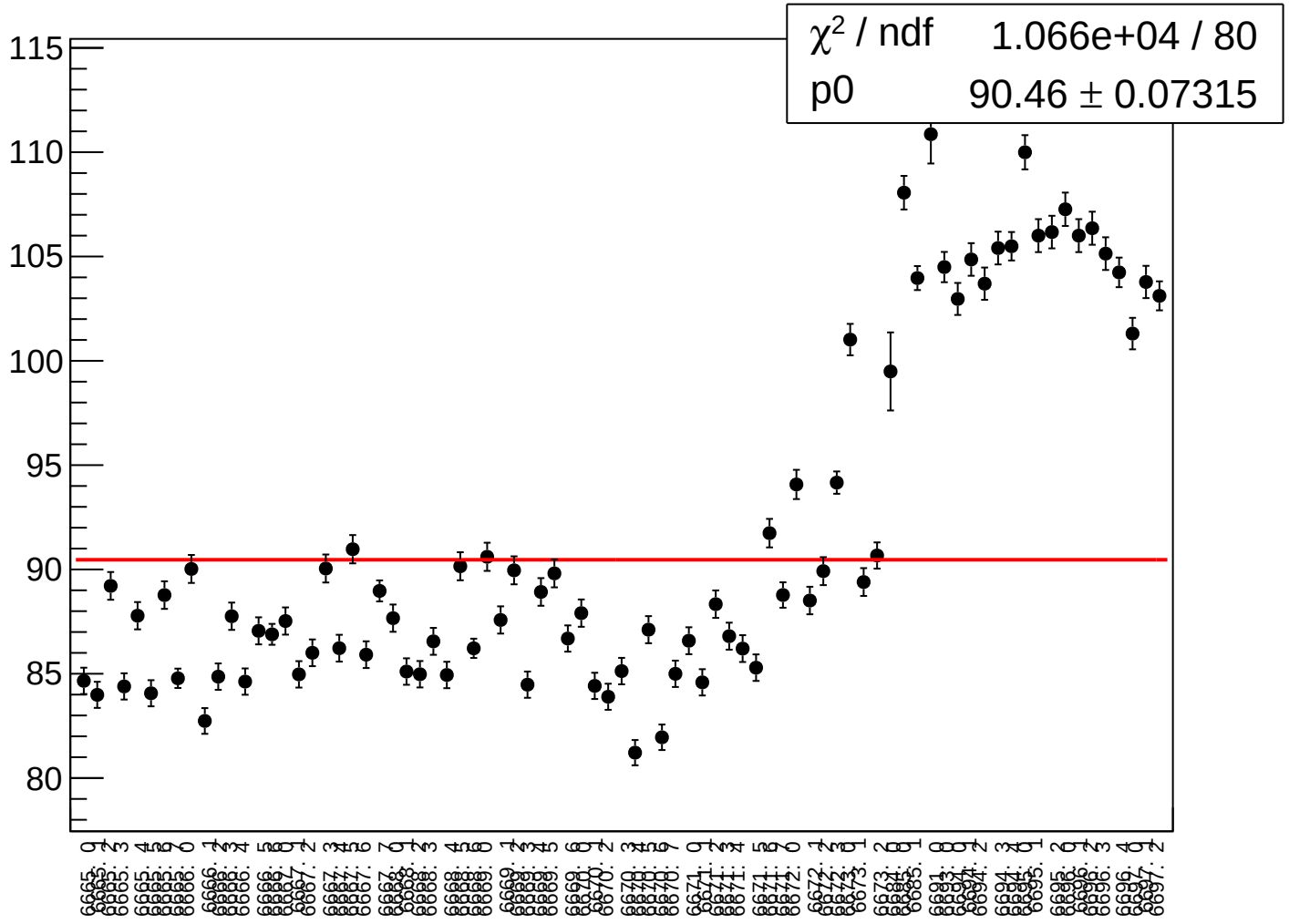

asym_sam_37_dd_mean vs run
χ² / ndf 85.88 / 80
p0 55.28 ± 205.7
pull
Entries 81
Mean 130.9
Std Dev 61.28

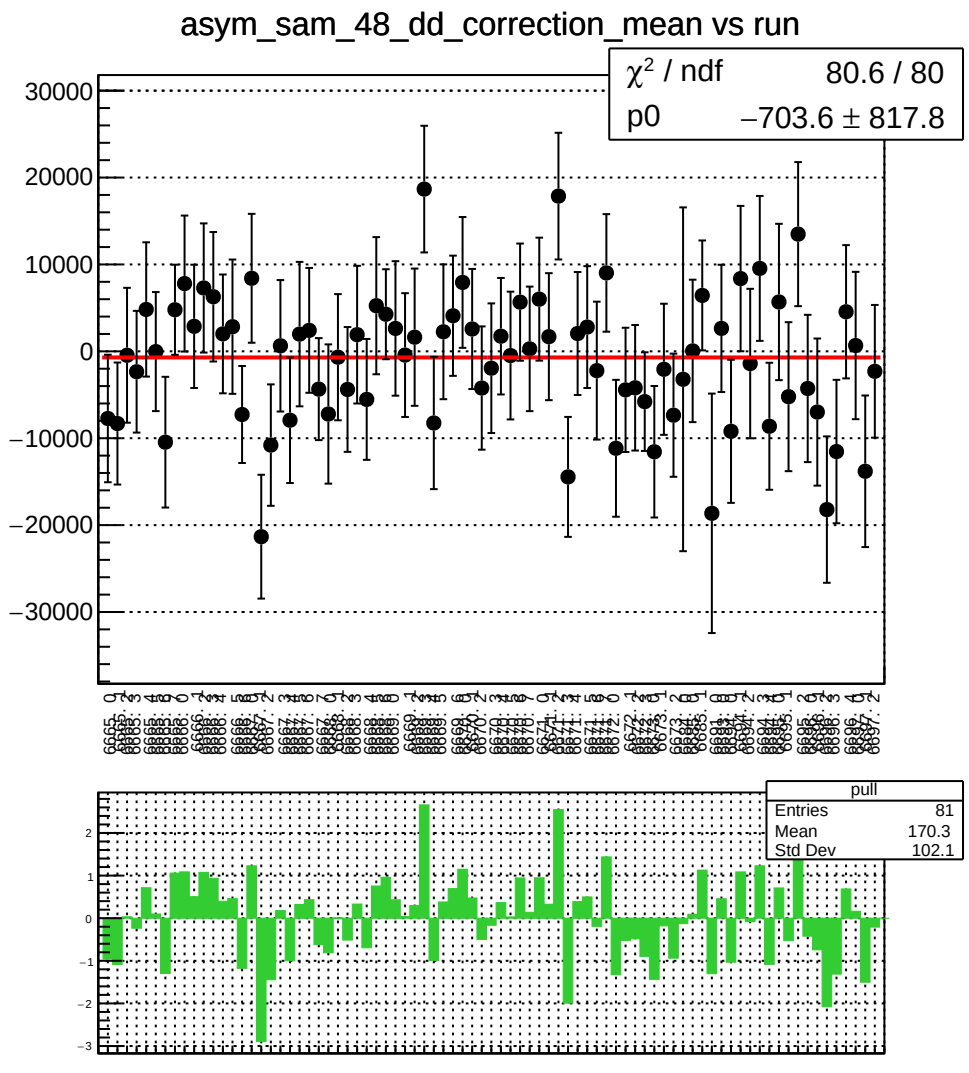

pull1D
Entries 81
Mean 0.02129
Std Dev 1.029

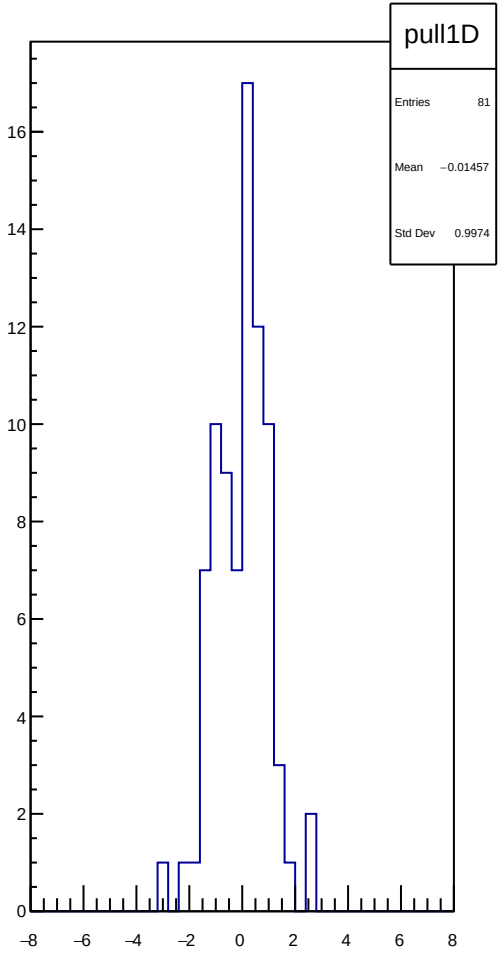

asym_sam_37_dd_rms vs run
χ² / ndf 1.98e+04 / 80
p0 179.3 ± 0.1454
240
220
200
180
160

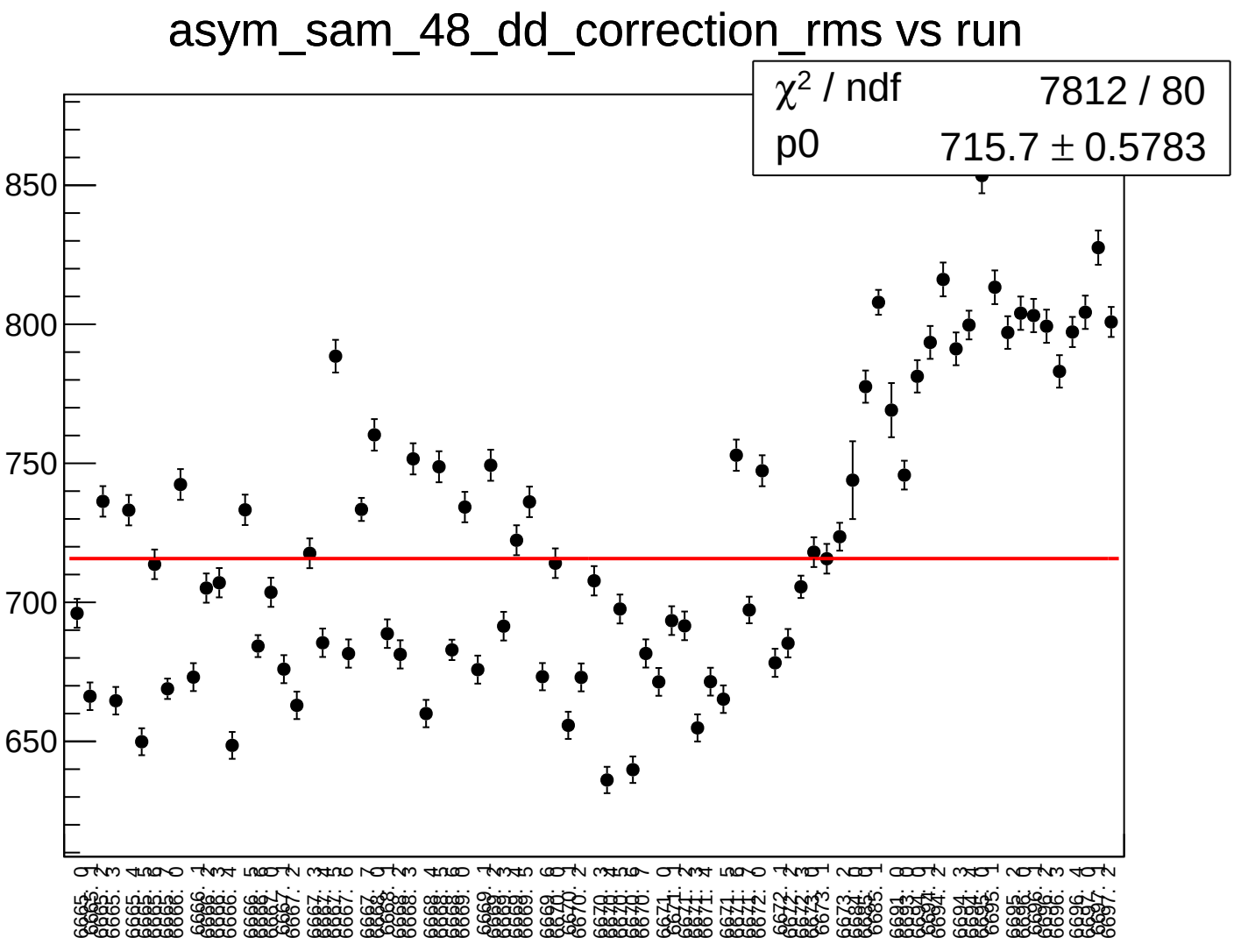

reg_asym_sam_48_dd_mean vs run
χ² / ndf 71.29 / 80
p0 160.7 ± 103.5
pull
Entries 81
Mean 15.09
Std Dev 37.4

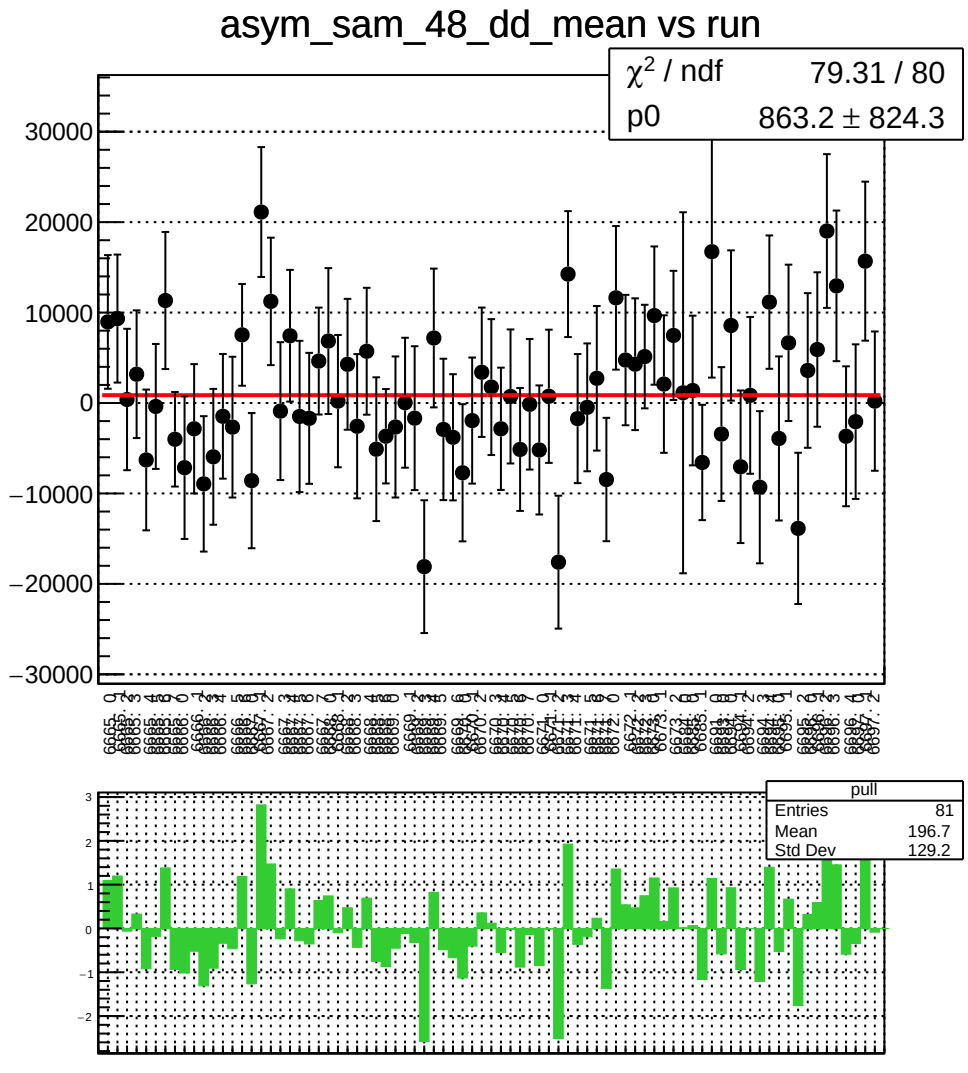

pull1D
Entries 81
Mean −0.01708
Std Dev 0.938

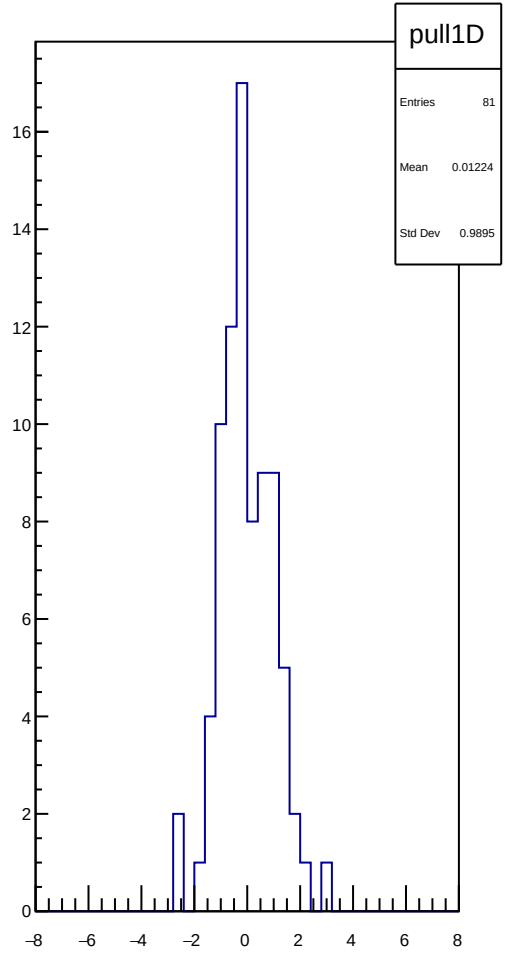

reg_asym_sam_48_dd_rms vs run
χ² / ndf 1.066e+04 / 80
p0 90.46 ± 0.07315
115
110
105
100
95
90
85
80

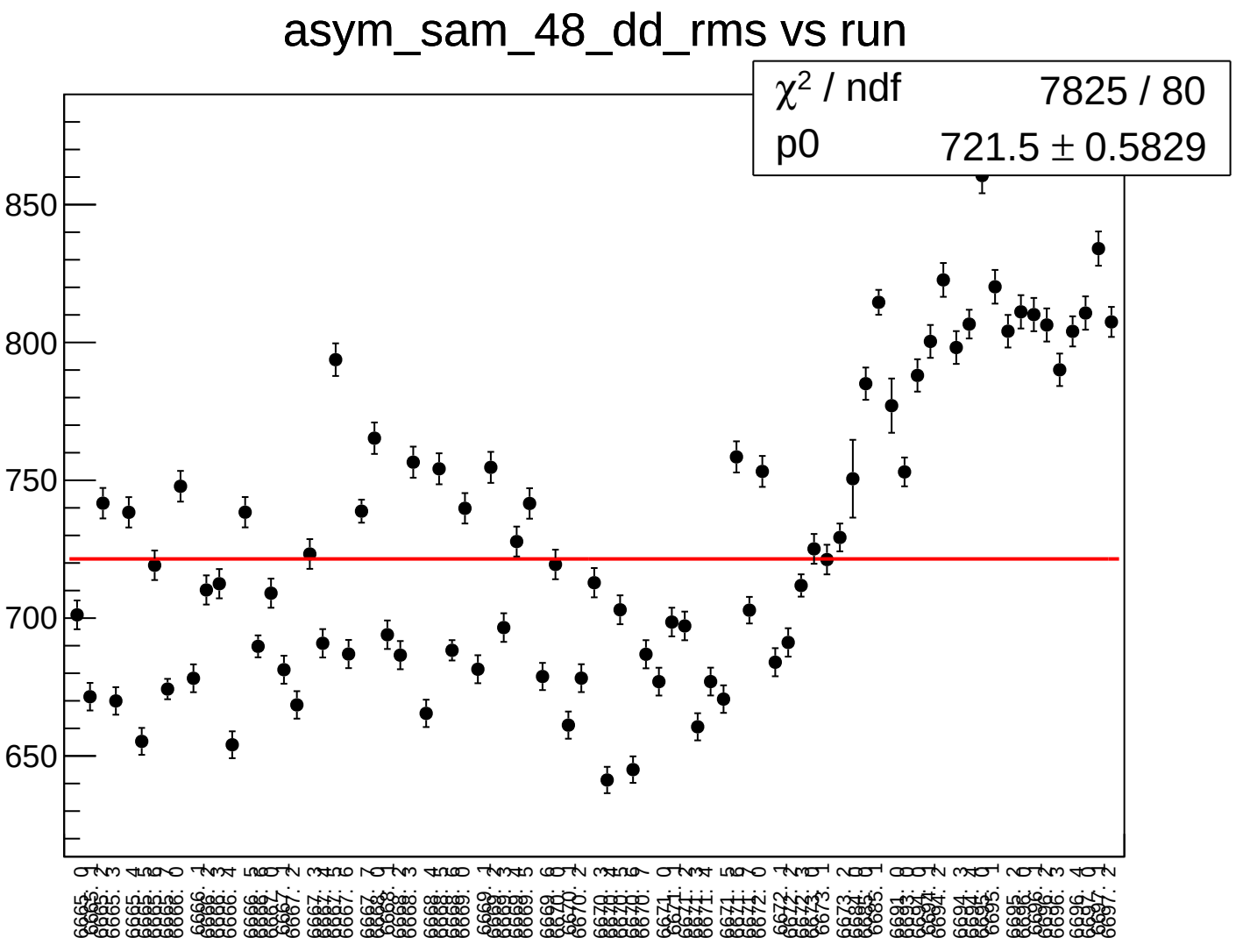

asym_sam_48_dd_correction_mean vs run
χ² / ndf 80.6 / 80
p0 −703.6 ± 817.8
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 170.3
Std Dev 102.1
2
1
0
−1
−2
−3

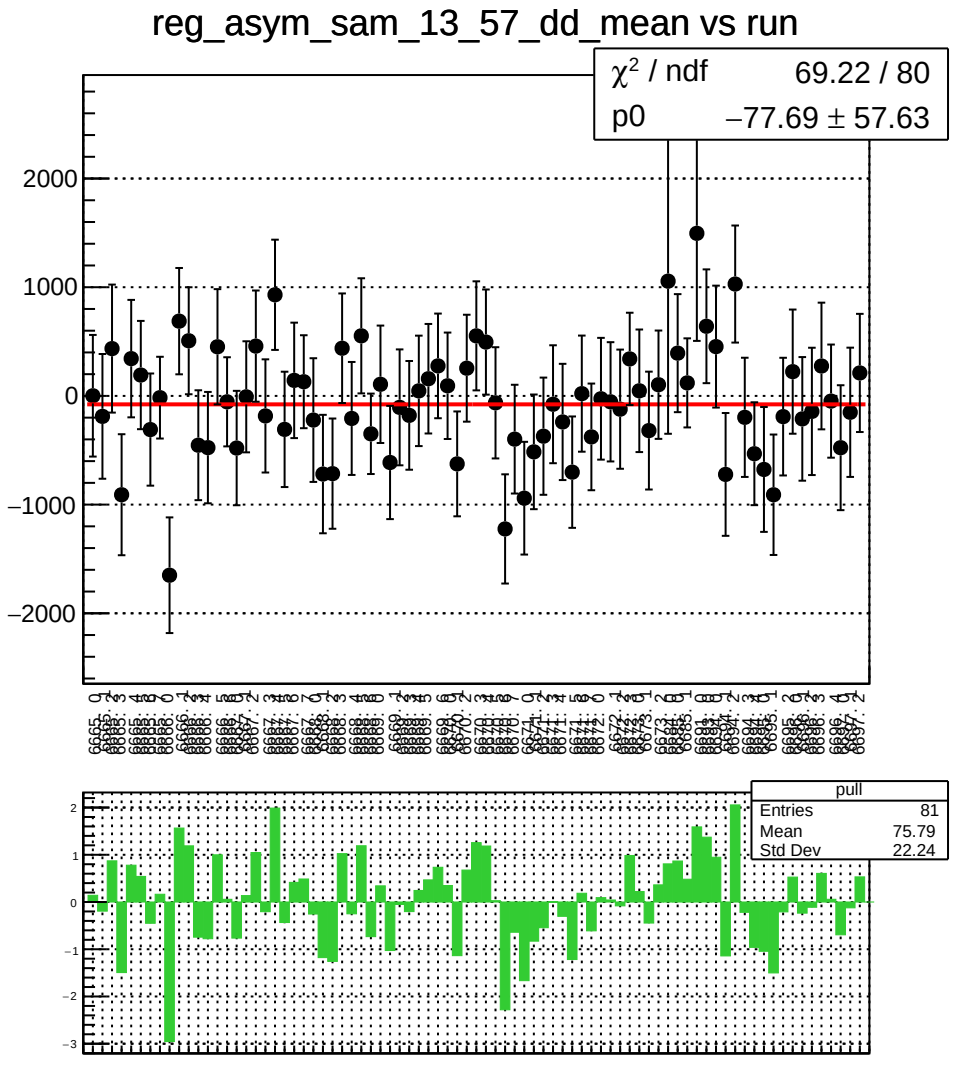

pull1D
Entries 81
Mean −0.01457
Std Dev 0.9974
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

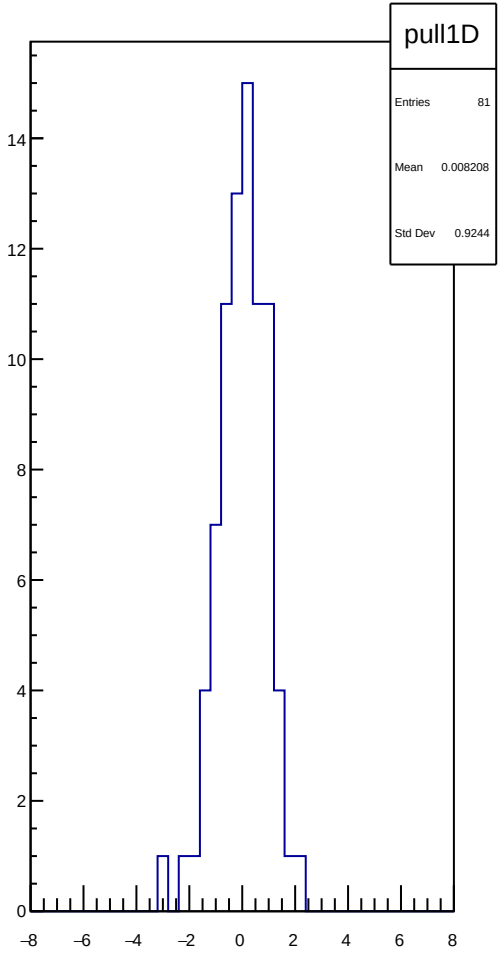

asym_sam_48_dd_correction_rms vs run
χ² / ndf 7812 / 80
p0 715.7 ± 0.5783
850
800
750
700
650

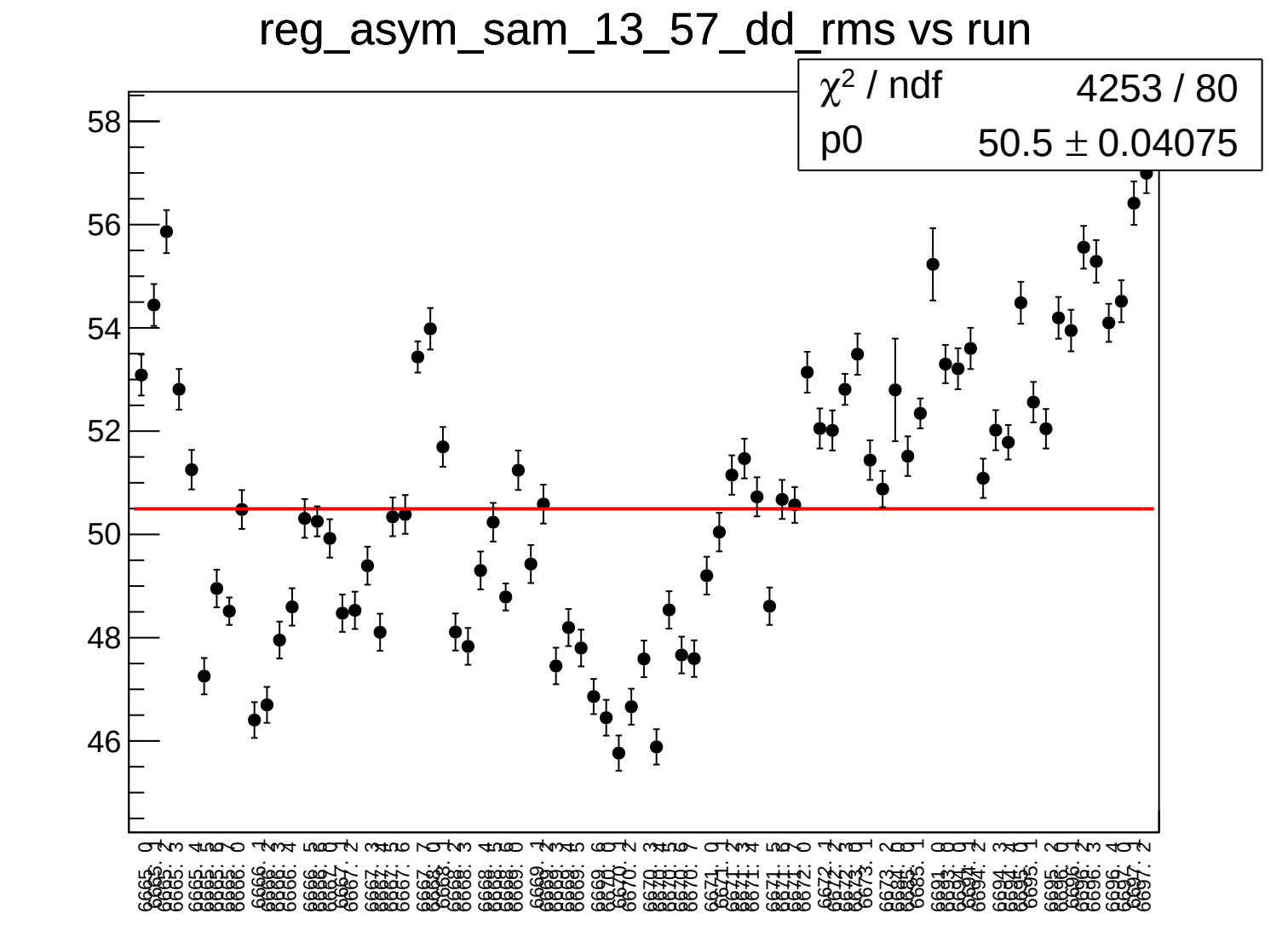

asym_sam_48_dd_mean vs run
χ² / ndf 79.31 / 80
p0 863.2 ± 824.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 196.7
Std Dev 129.2
3
2
1
0
−1
−2

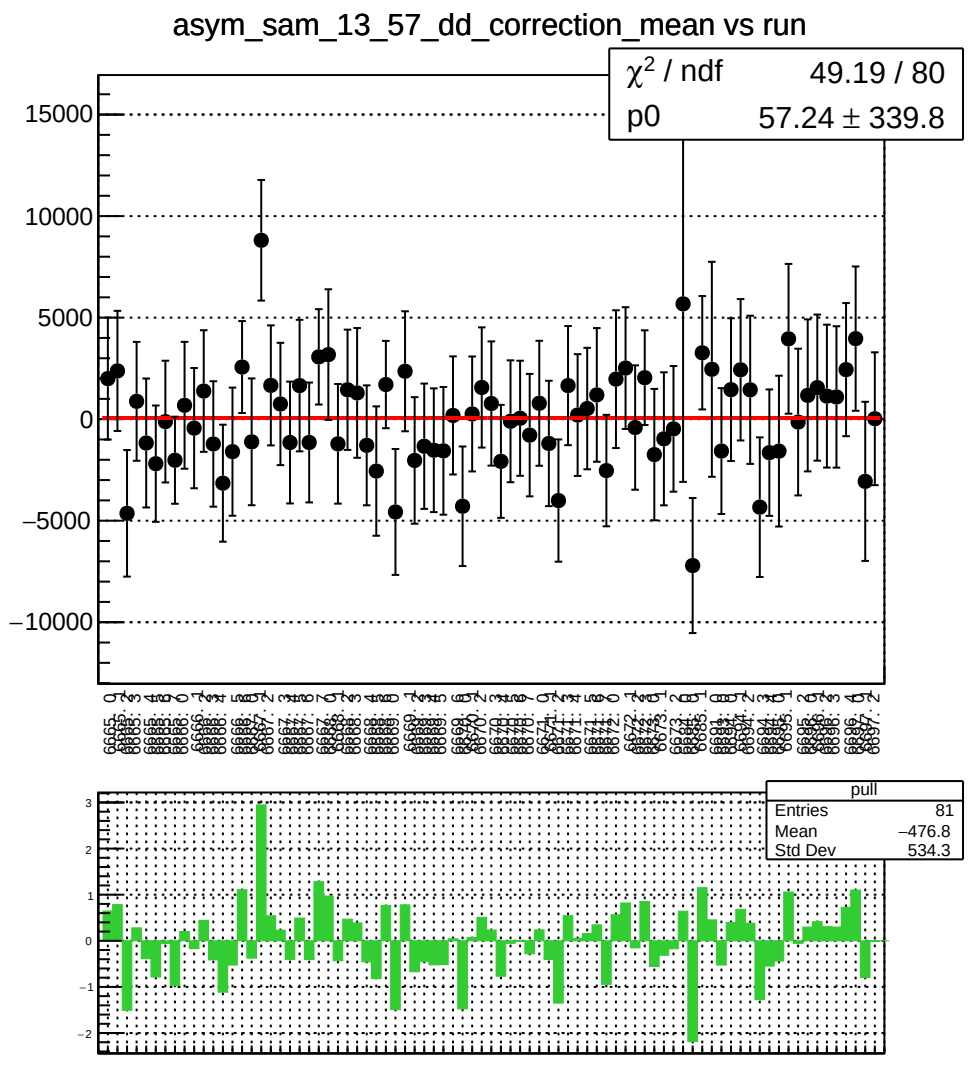

pull1D
Entries 81
Mean 0.01224
Std Dev 0.9895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

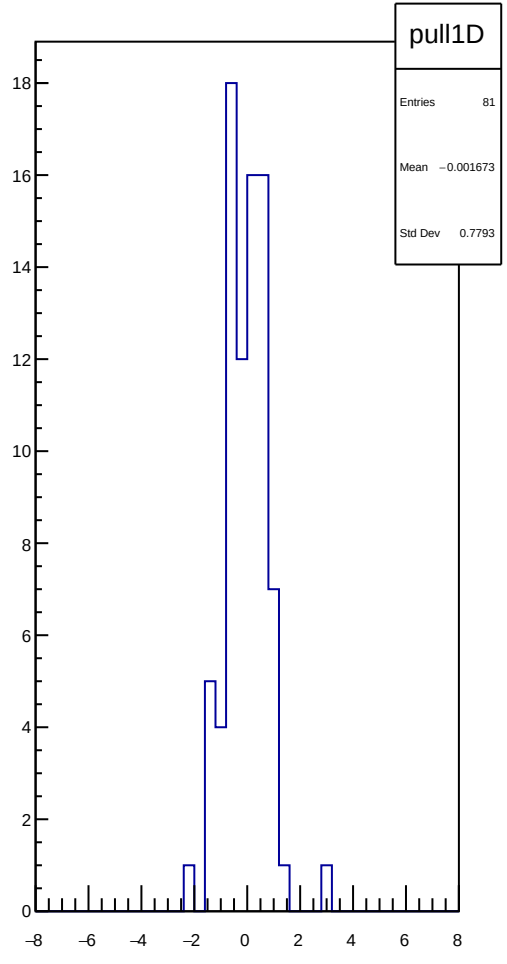

asym_sam_48_dd_rms vs run
χ² / ndf 7825 / 80
p0 721.5 ± 0.5829
850
800
750
700
650

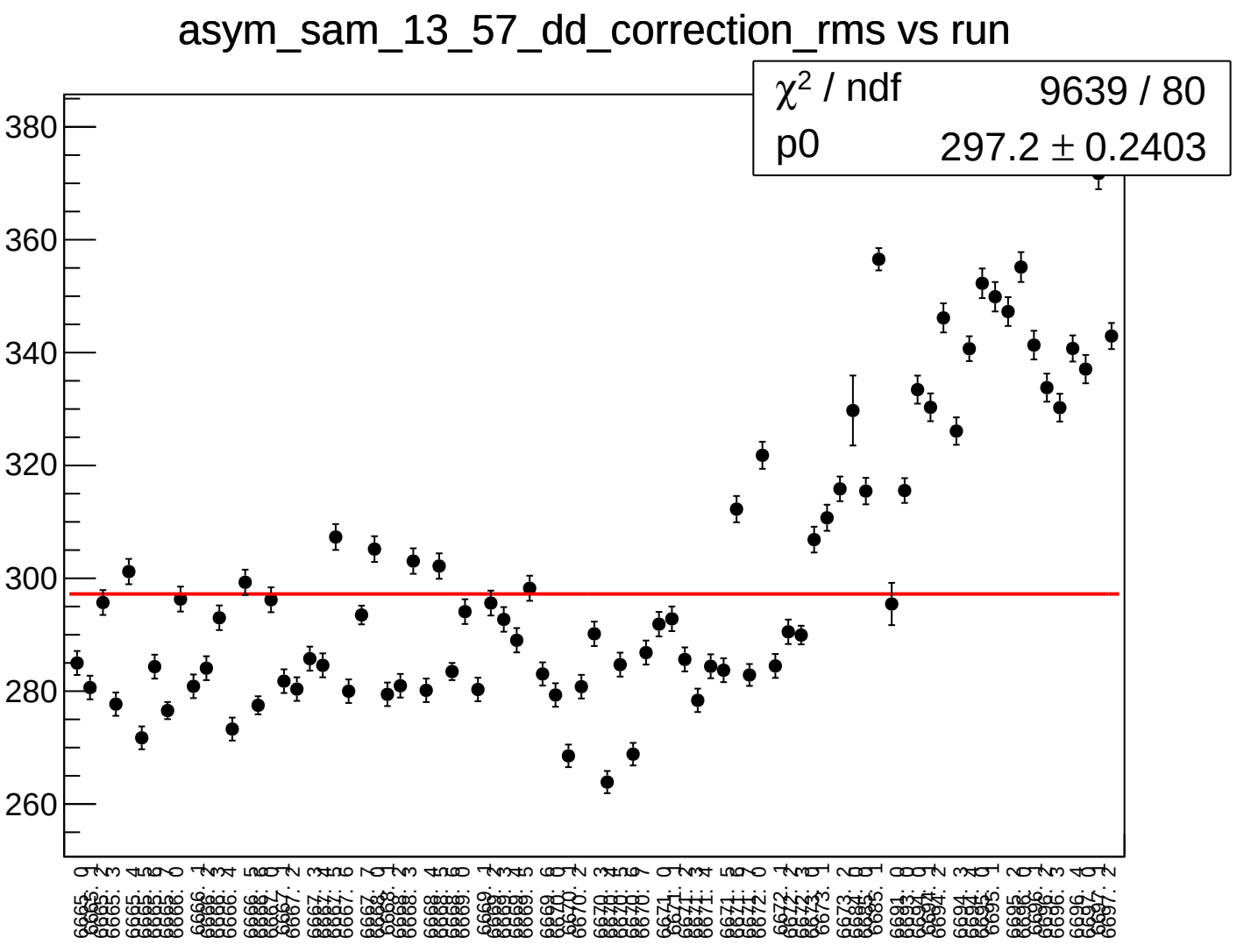

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 69.22 / 80
p0 −77.69 ± 57.63
pull
Entries 81
Mean 75.79
Std Dev 22.24

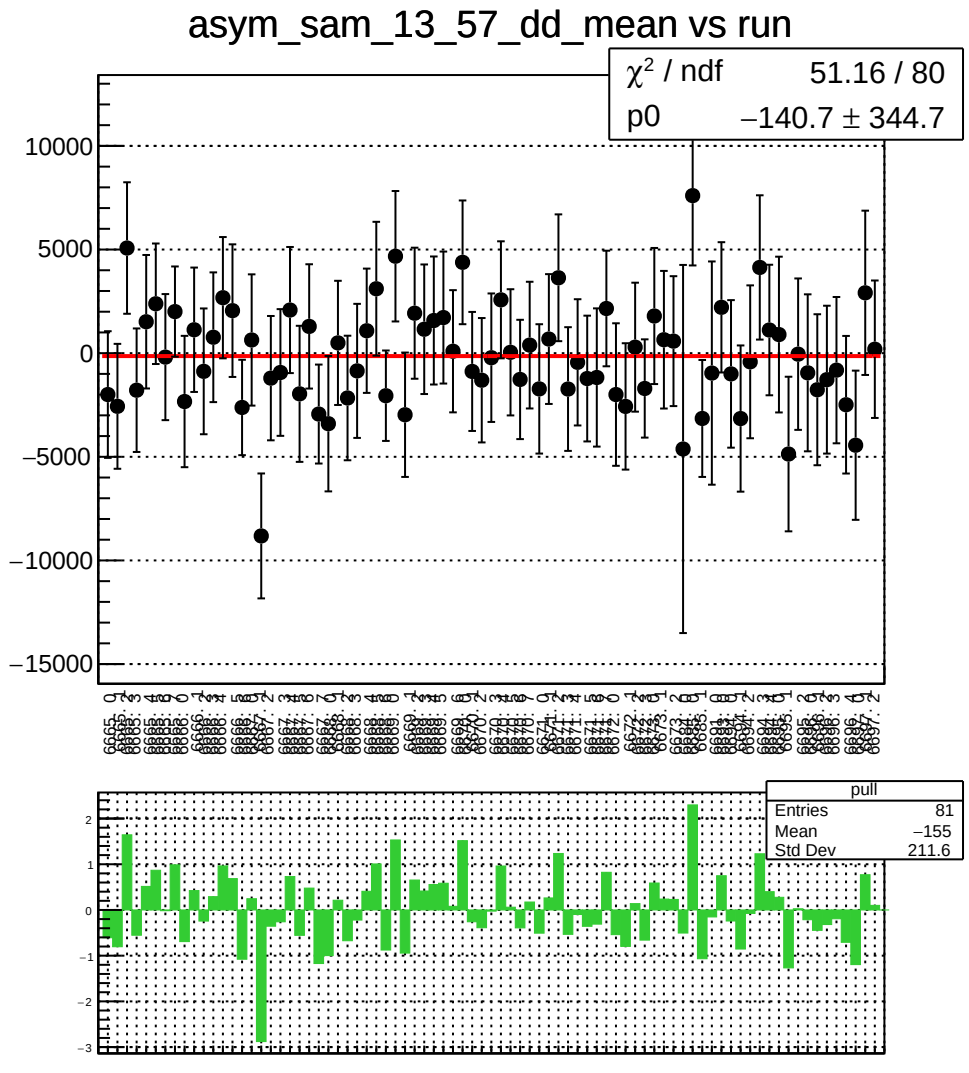

pull1D
Entries 81
Mean 0.008208
Std Dev 0.9244

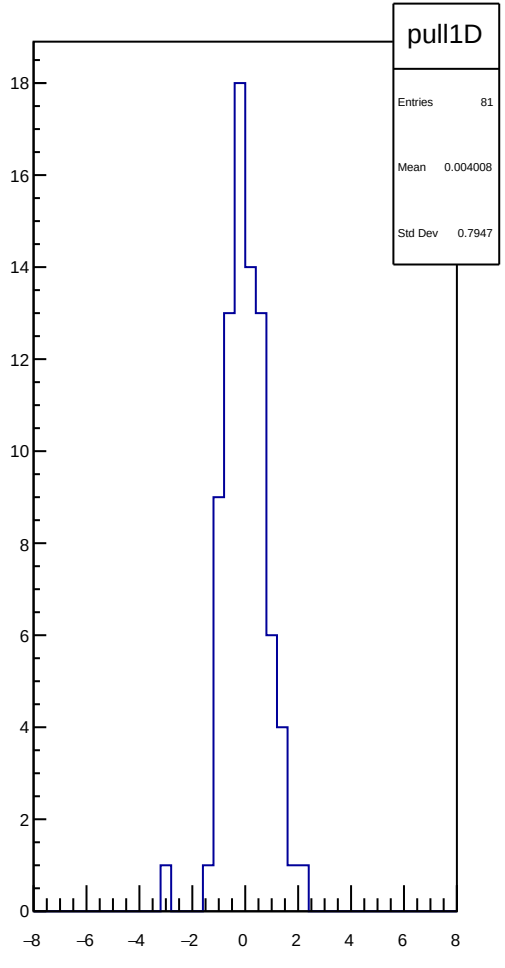

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 4253 / 80
p0 50.5 ± 0.04075
58
56
54
52
50
48
46

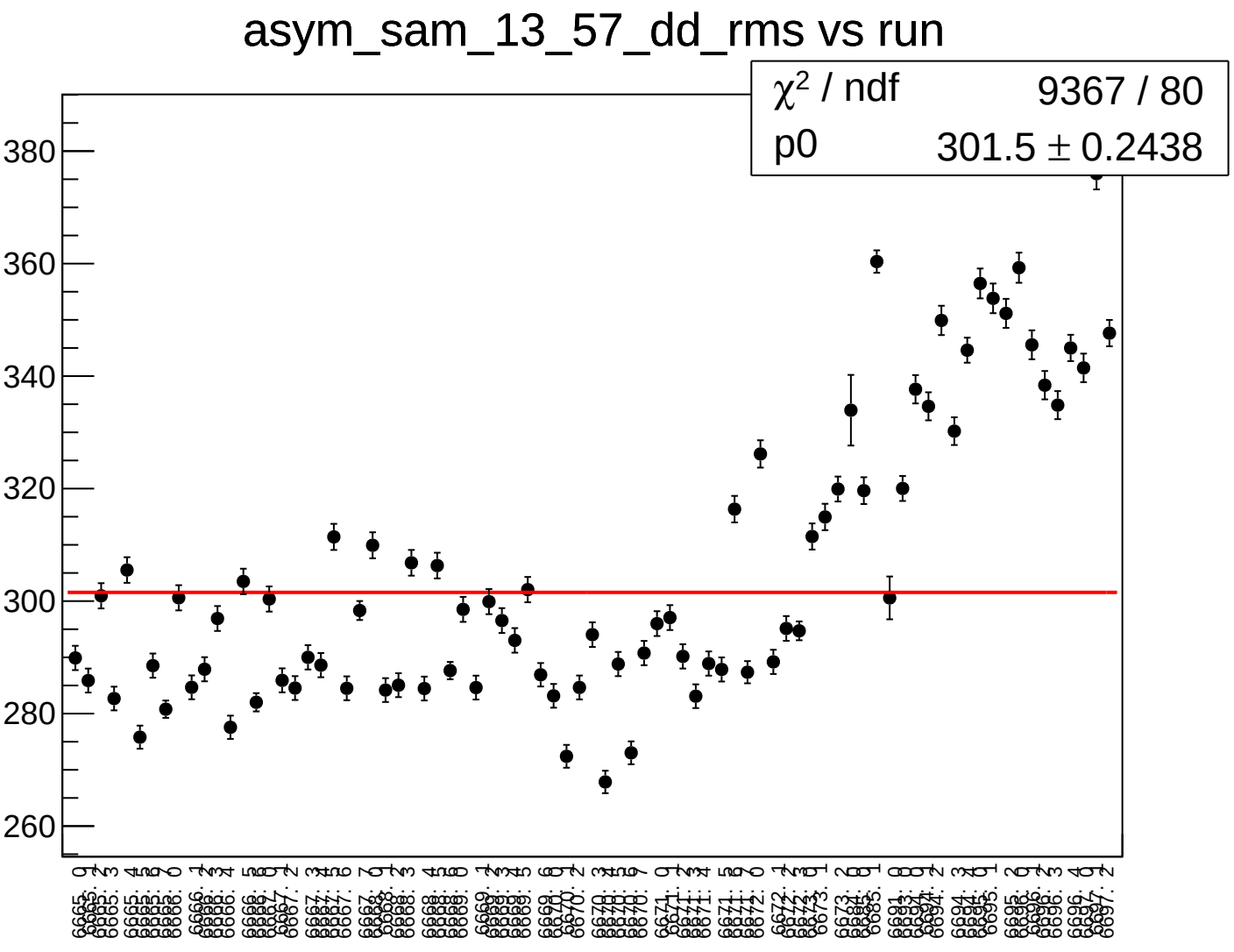

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 49.19 / 80
p0 57.24 ± 339.8
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −476.8
Std Dev 534.3
3
2
1
0
−1
−2

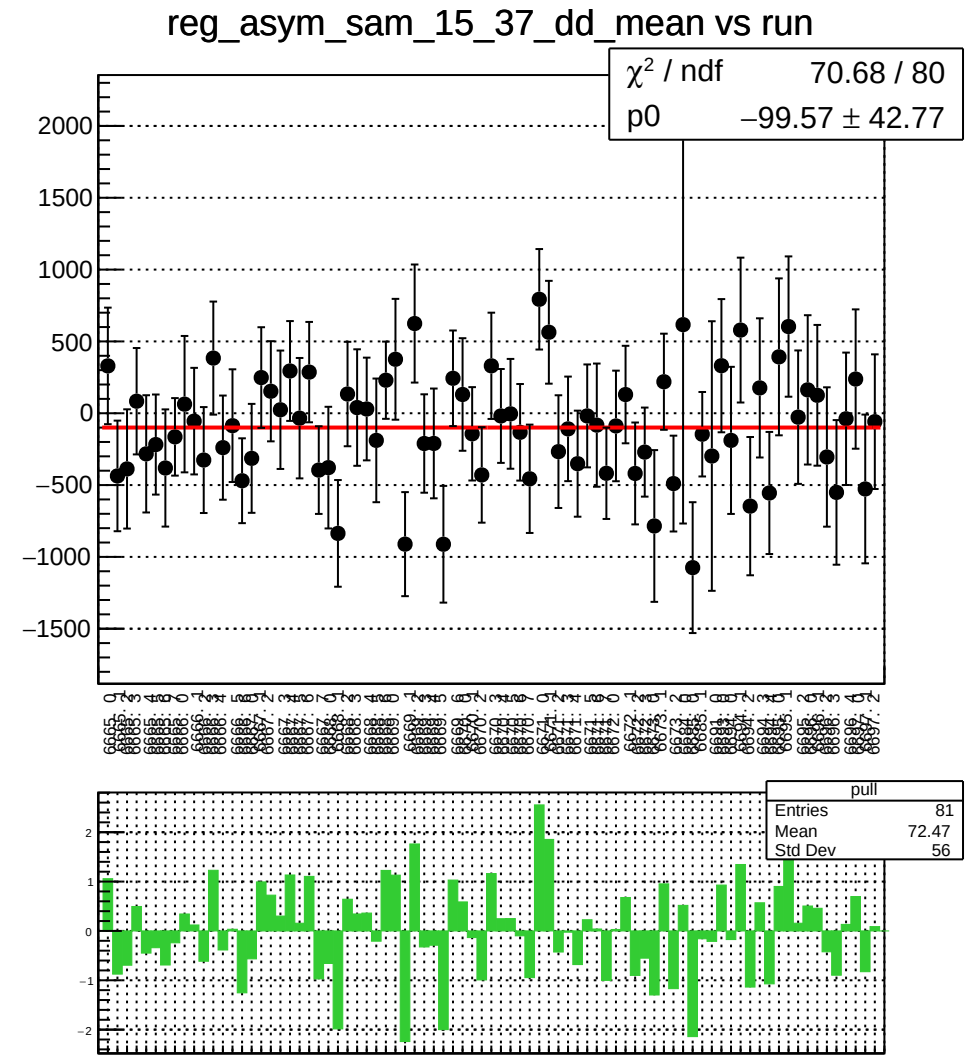

pull1D
Entries 81
Mean −0.001673
Std Dev 0.7793
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

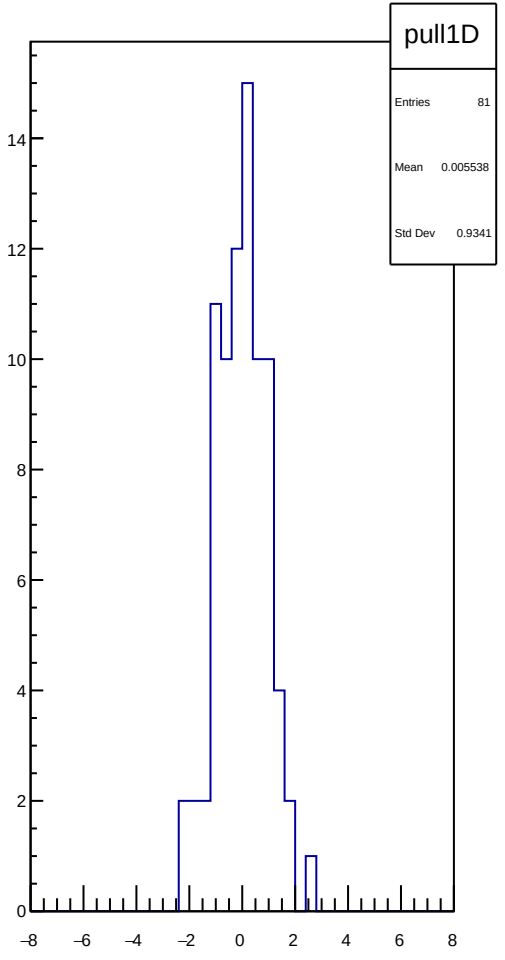

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 9639 / 80
p0 297.2 ± 0.2403
380
360
340
320
300
280
260

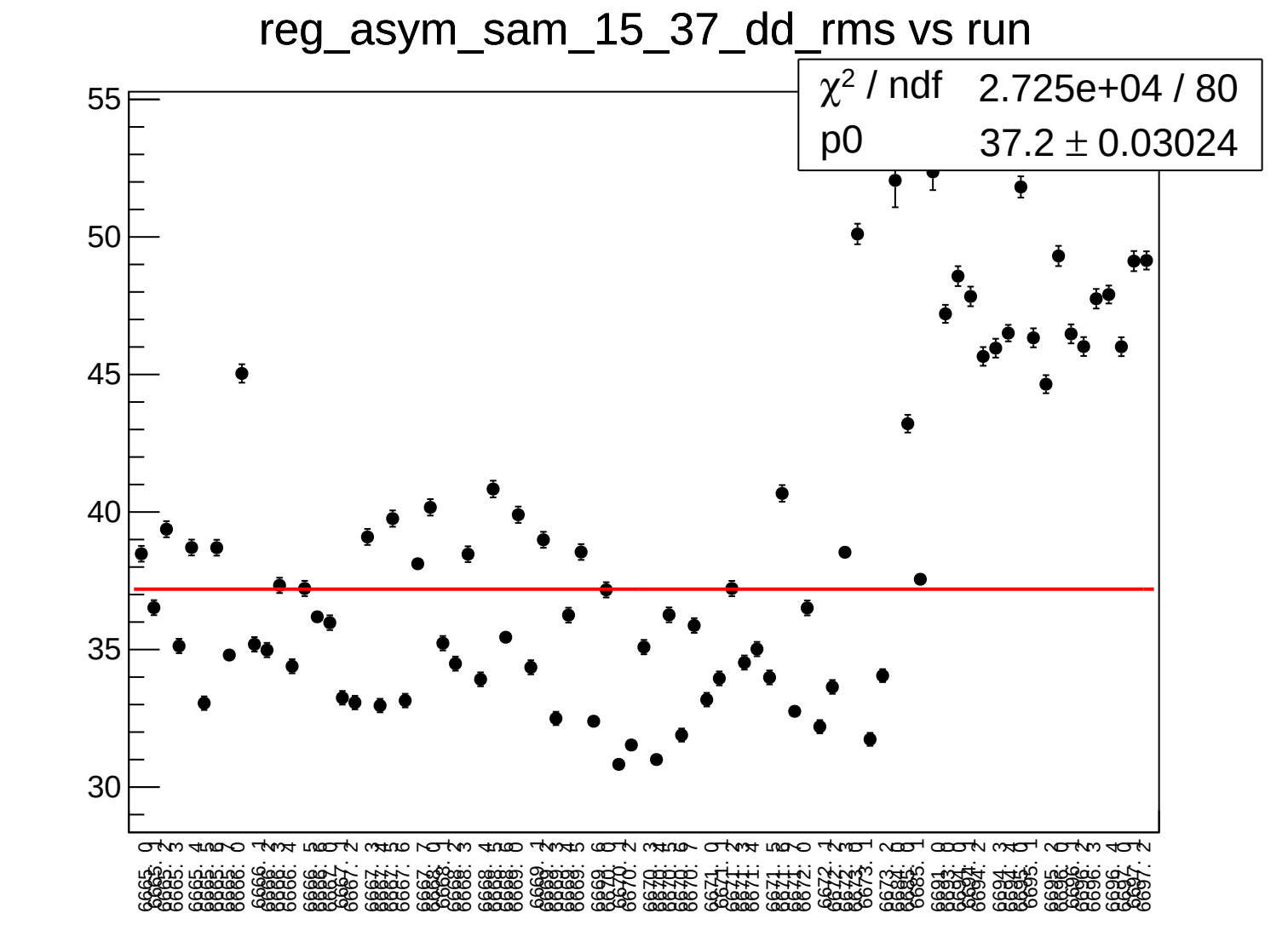

asym_sam_13_57_dd_mean vs run
χ² / ndf 51.16 / 80
p0 −140.7 ± 344.7
pull
Entries 81
Mean −155
Std Dev 211.6

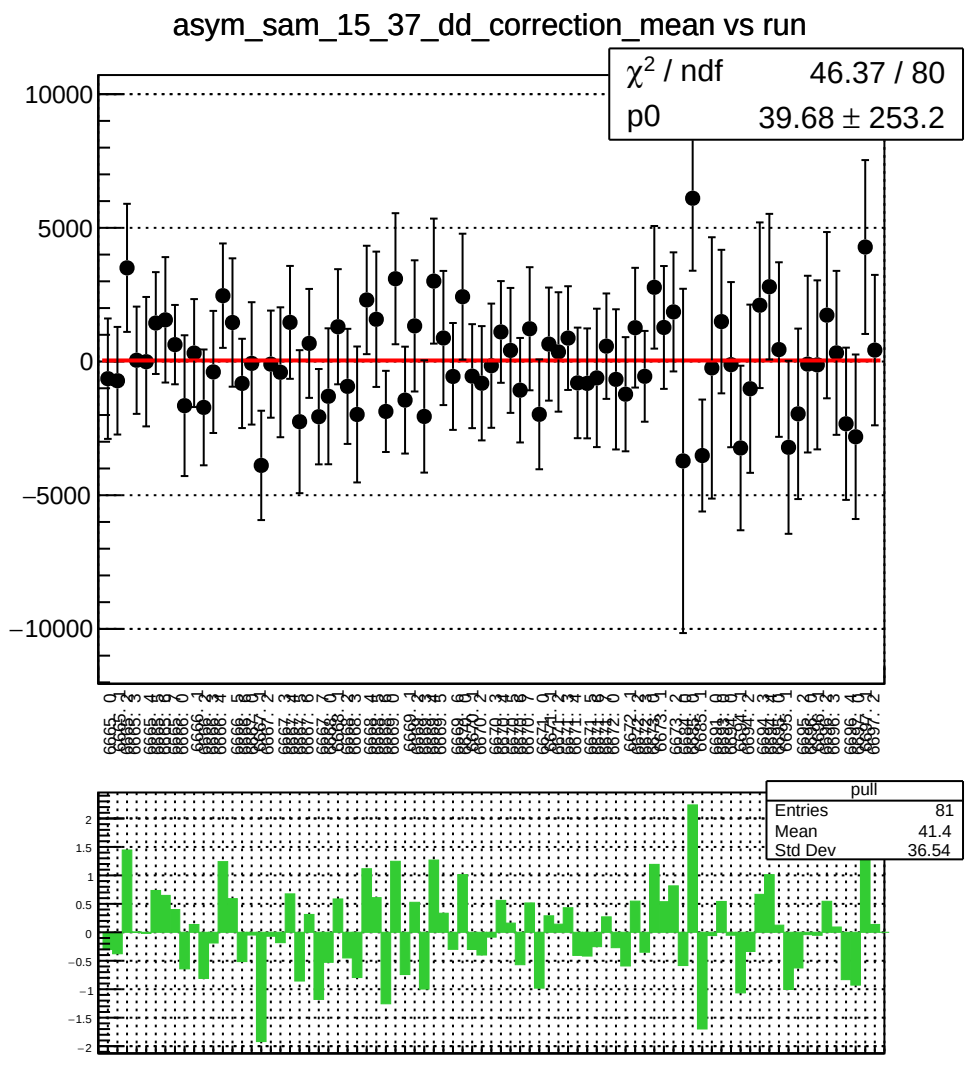

pull1D
Entries 81
Mean 0.004008
Std Dev 0.7947

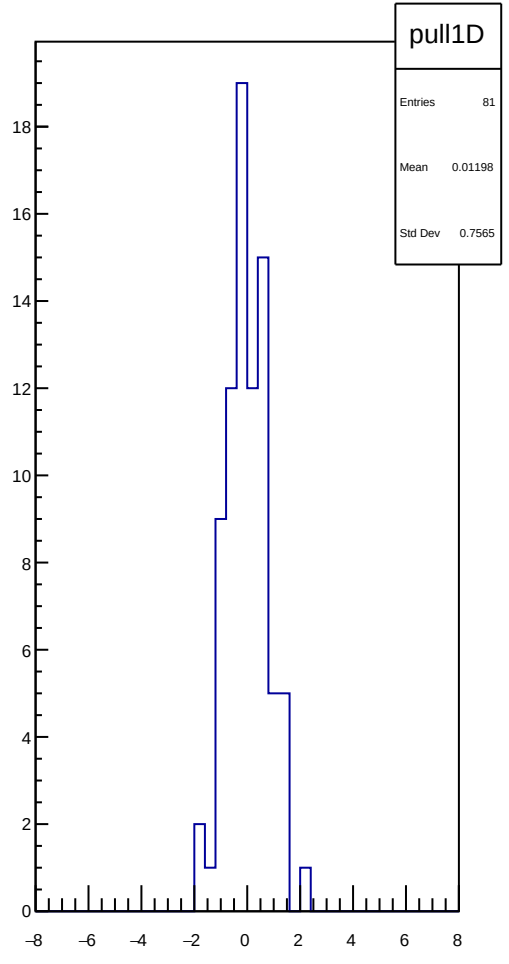

asym_sam_13_57_dd_rms vs run
χ² / ndf 9367 / 80
p0 301.5 ± 0.2438
380
360
340
320
300
280
260

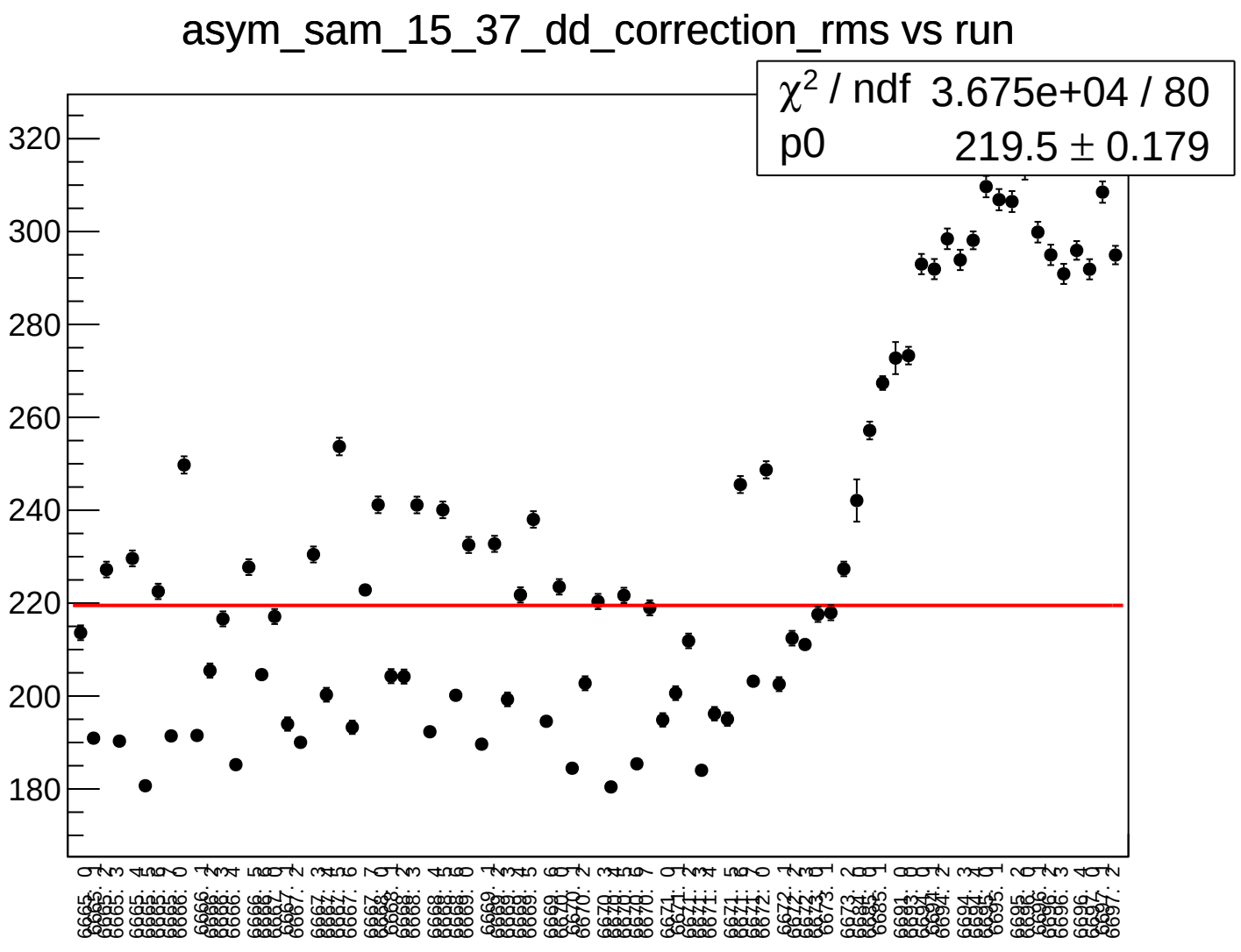

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 70.68 / 80
p0 −99.57 ± 42.77
pull
Entries 81
Mean 72.47
Std Dev 56

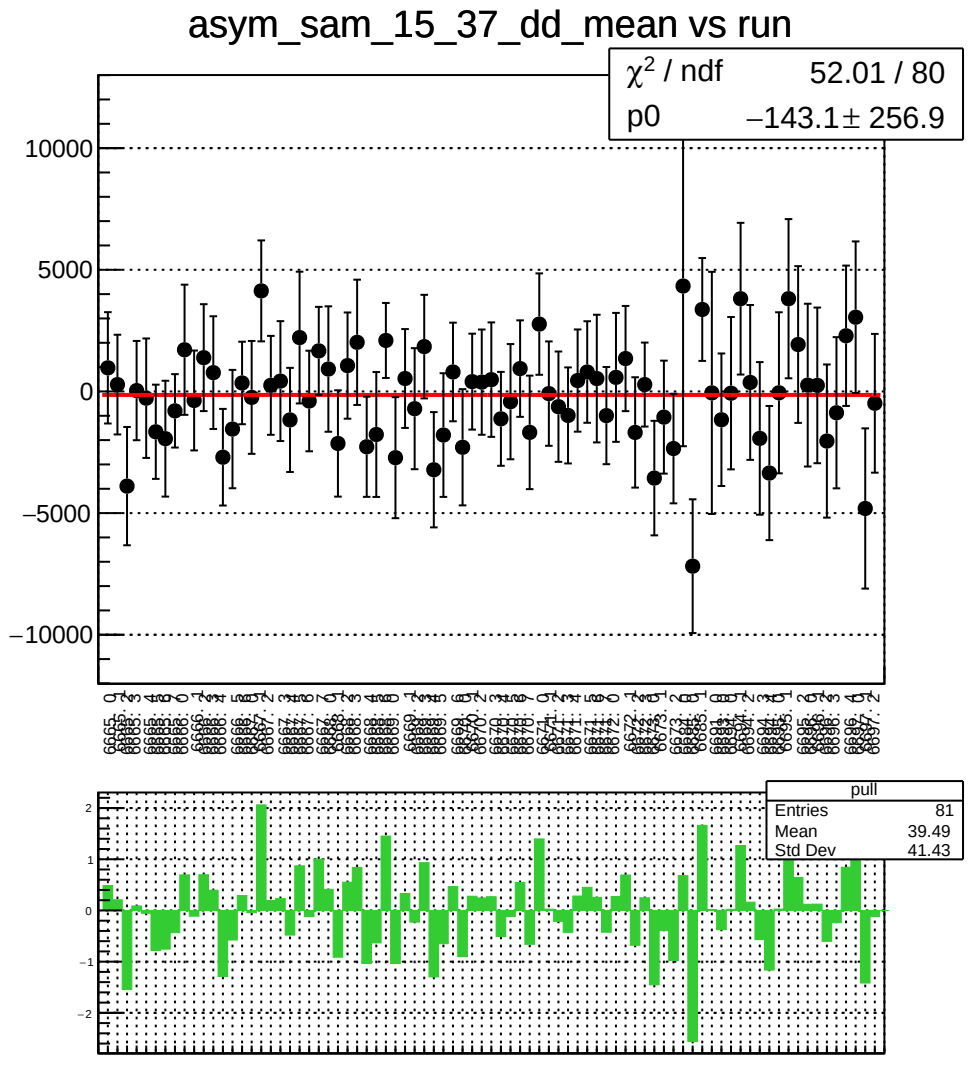

pull1D
Entries 81
Mean 0.005538
Std Dev 0.9341

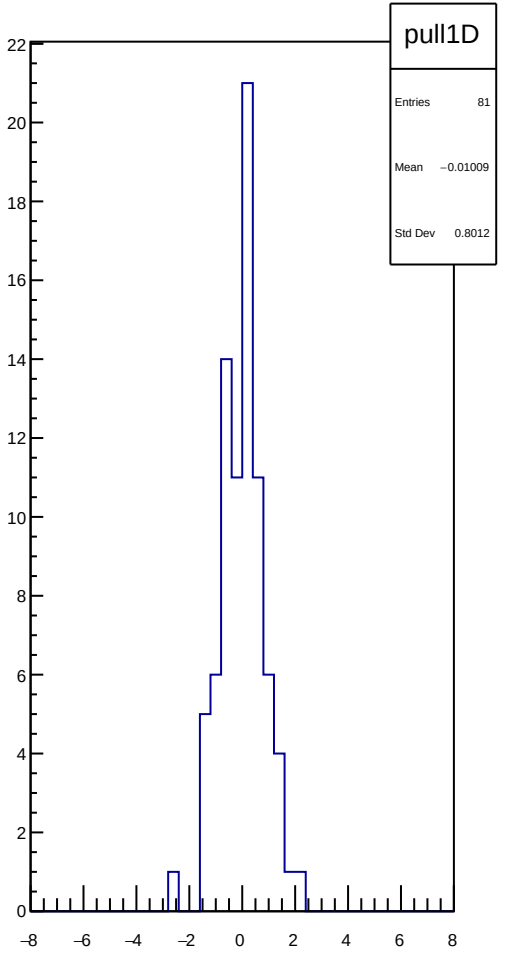

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 2.725e+04 / 80
p0 37.2 ± 0.03024
55
50
45
40
35
30

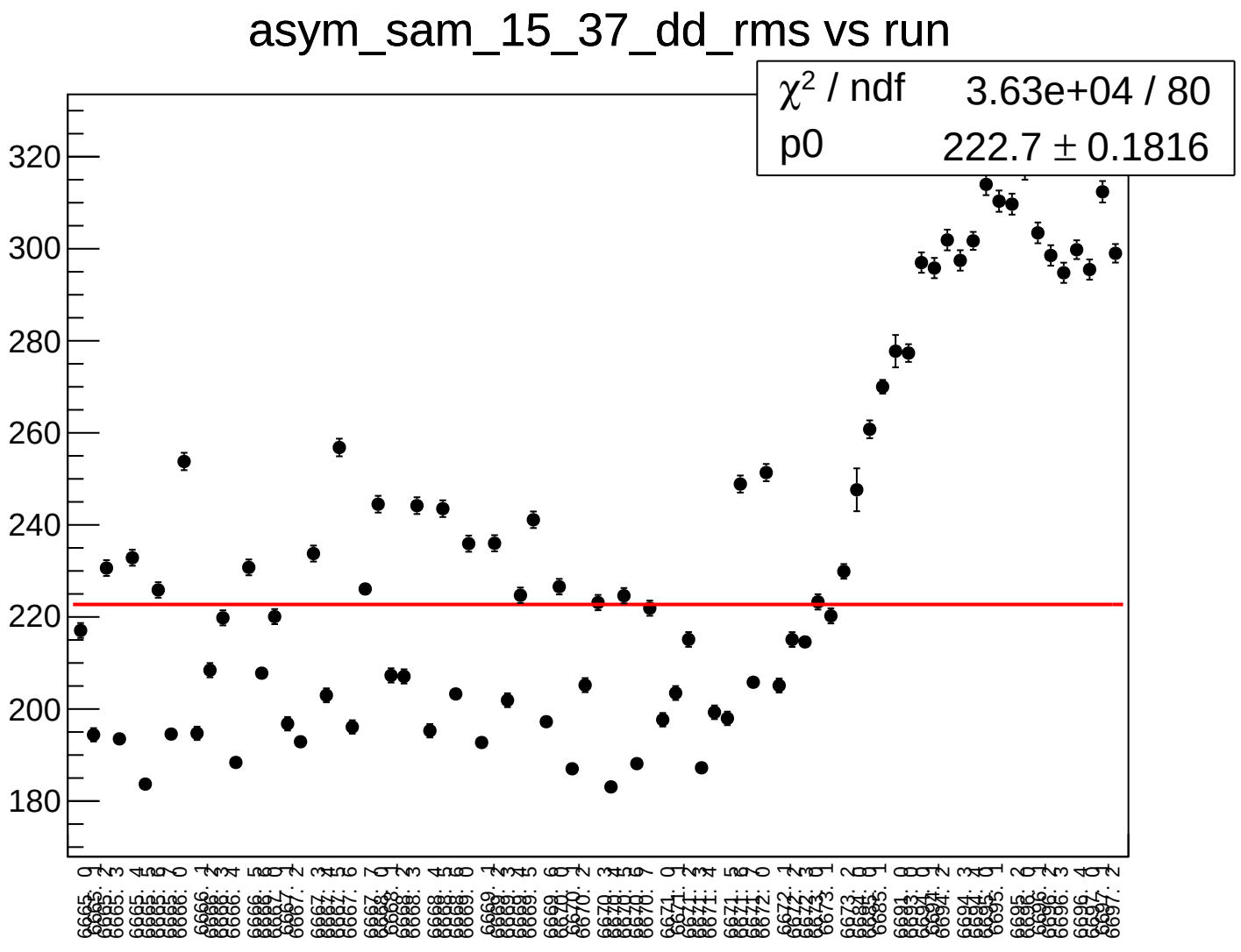

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 46.37 / 80
p0 39.68 ± 253.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 41.4
Std Dev 36.54
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

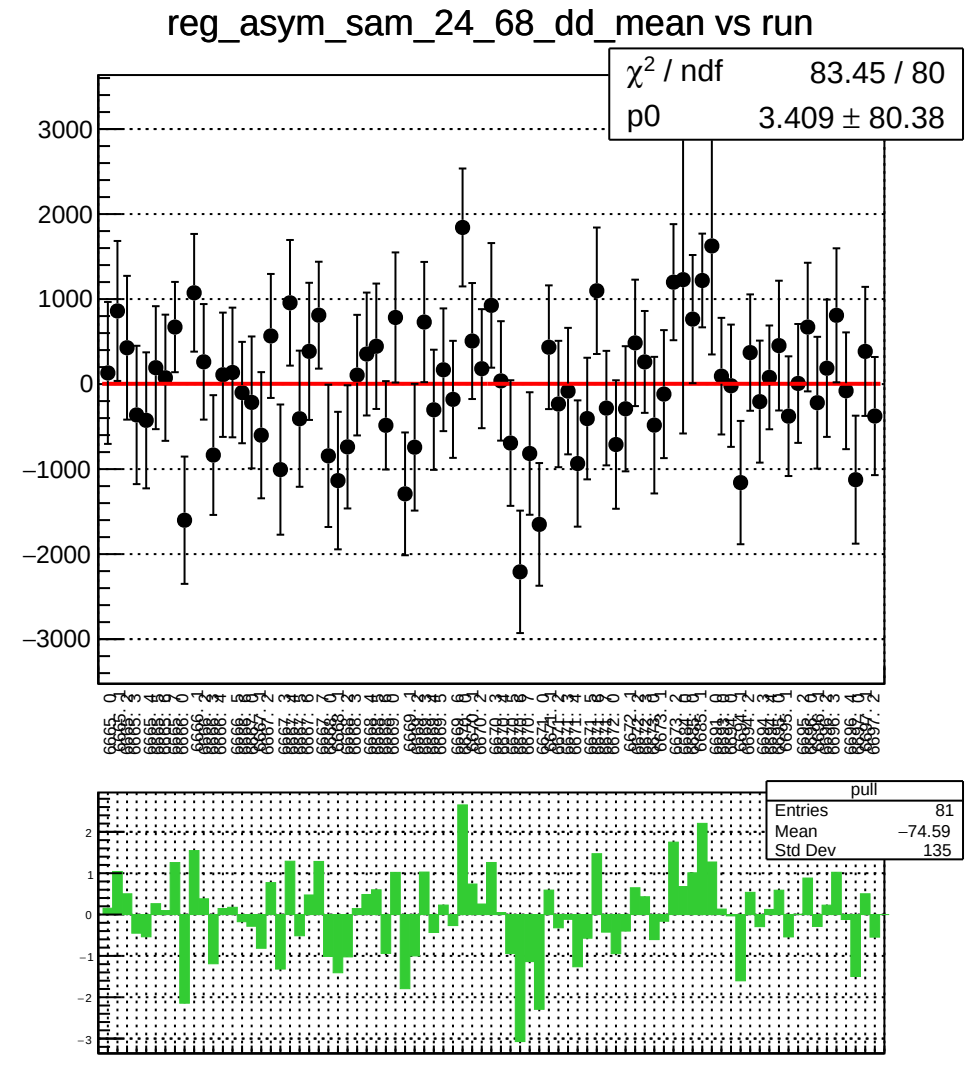

pull1D
Entries 81
Mean 0.01198
Std Dev 0.7565
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

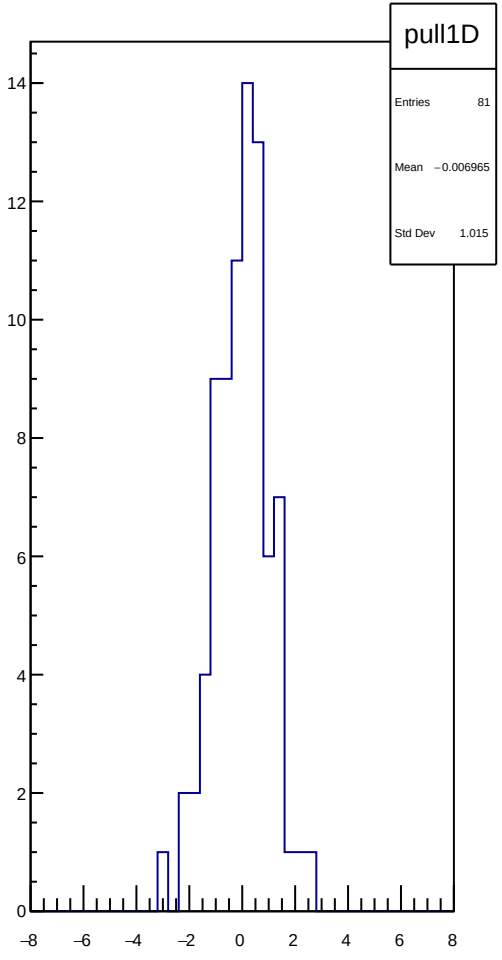

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 3.675e+04 / 80
p0 219.5 ± 0.179
320
300
280
260
240
220
200
180

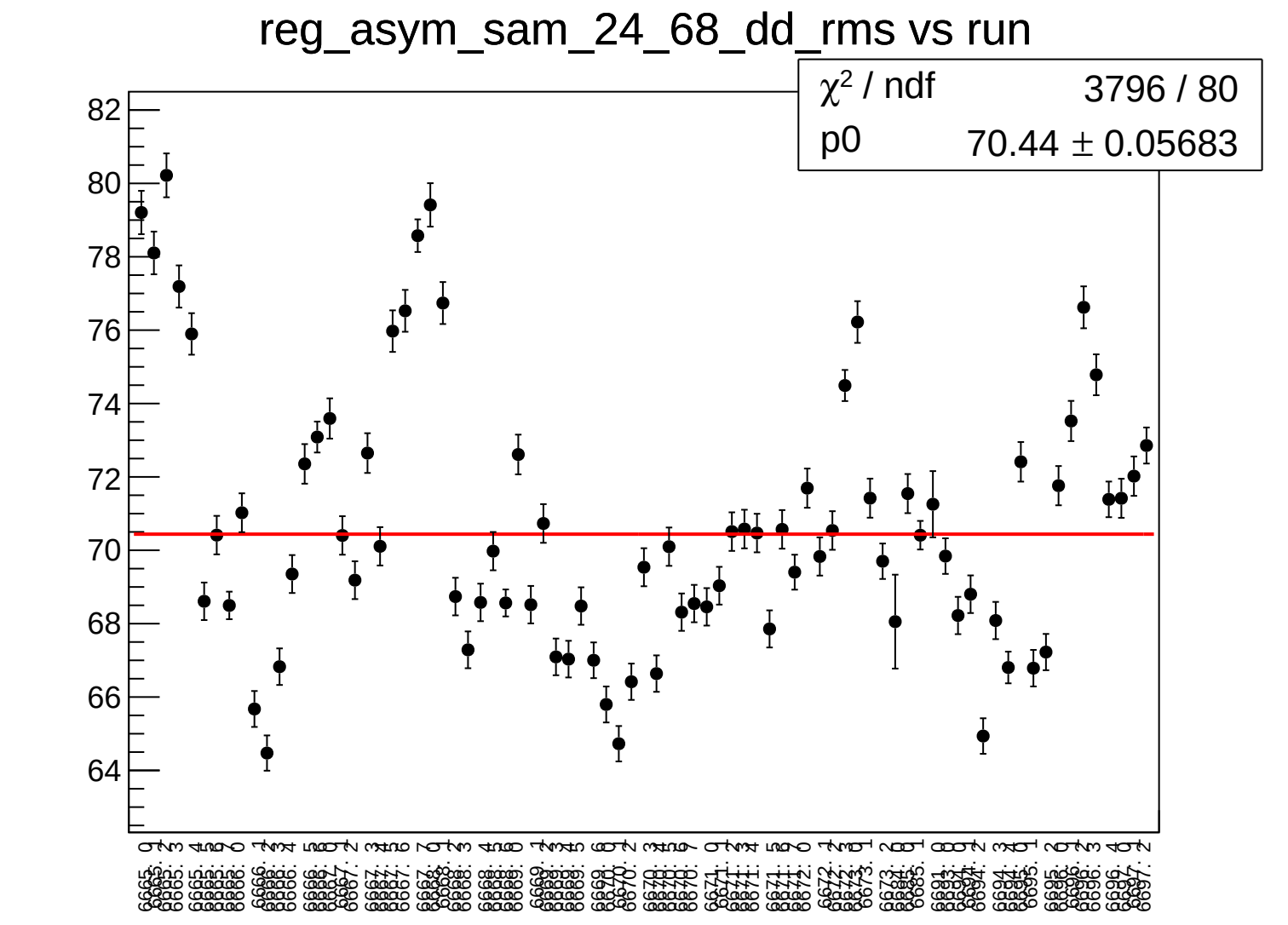

asym_sam_15_37_dd_mean vs run
χ² / ndf 52.01 / 80
p0 −143.1± 256.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 39.49
Std Dev 41.43
2
1
0
−1
−2

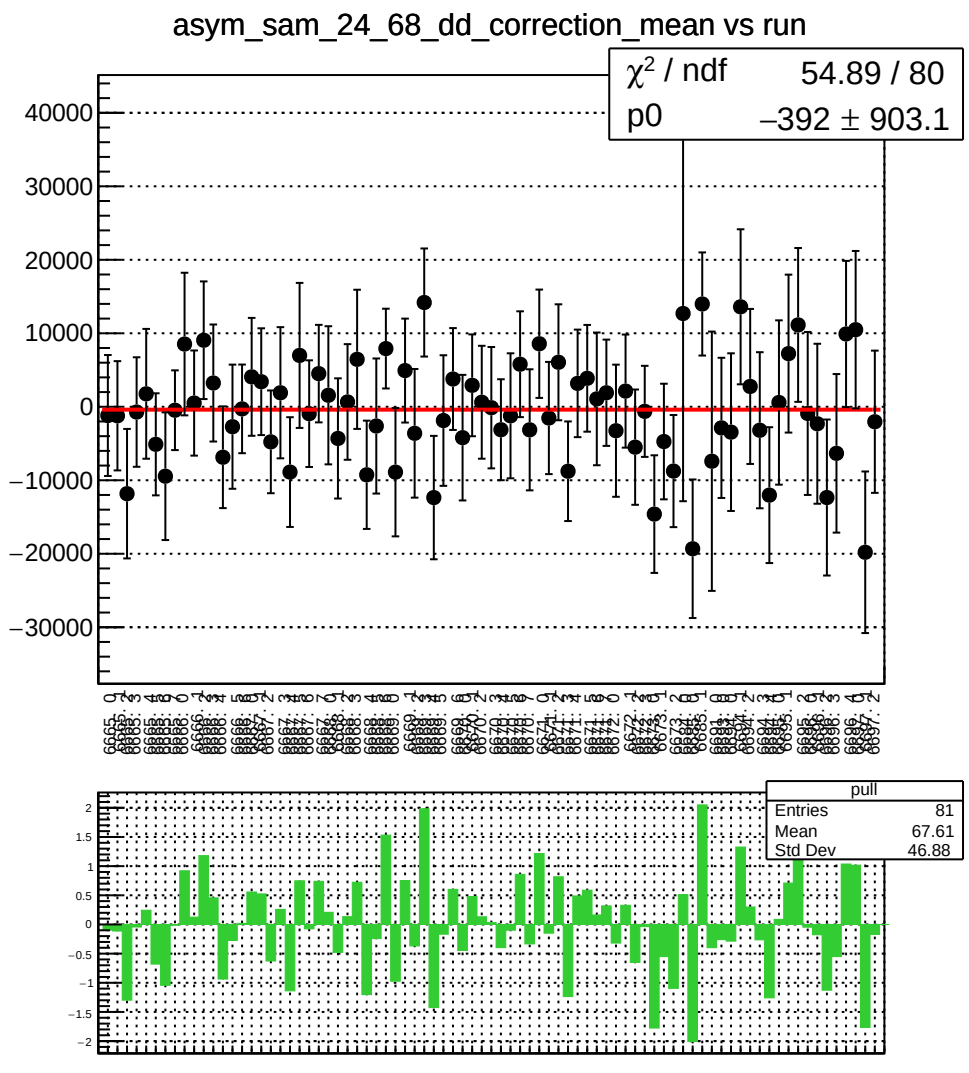

pull1D
Entries 81
Mean −0.01009
Std Dev 0.8012
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

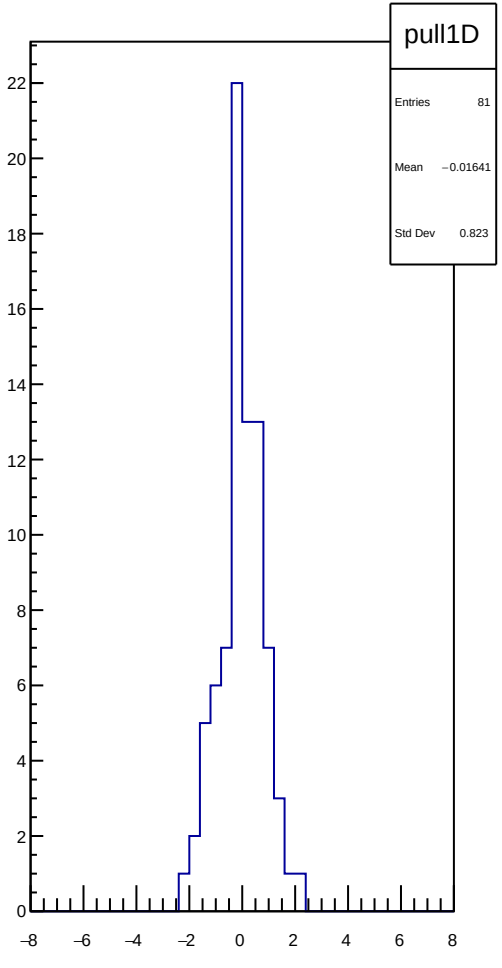

asym_sam_15_37_dd_rms vs run
χ² / ndf 3.63e+04 / 80
p0 222.7 ± 0.1816
320
300
280
260
240
220
200
180

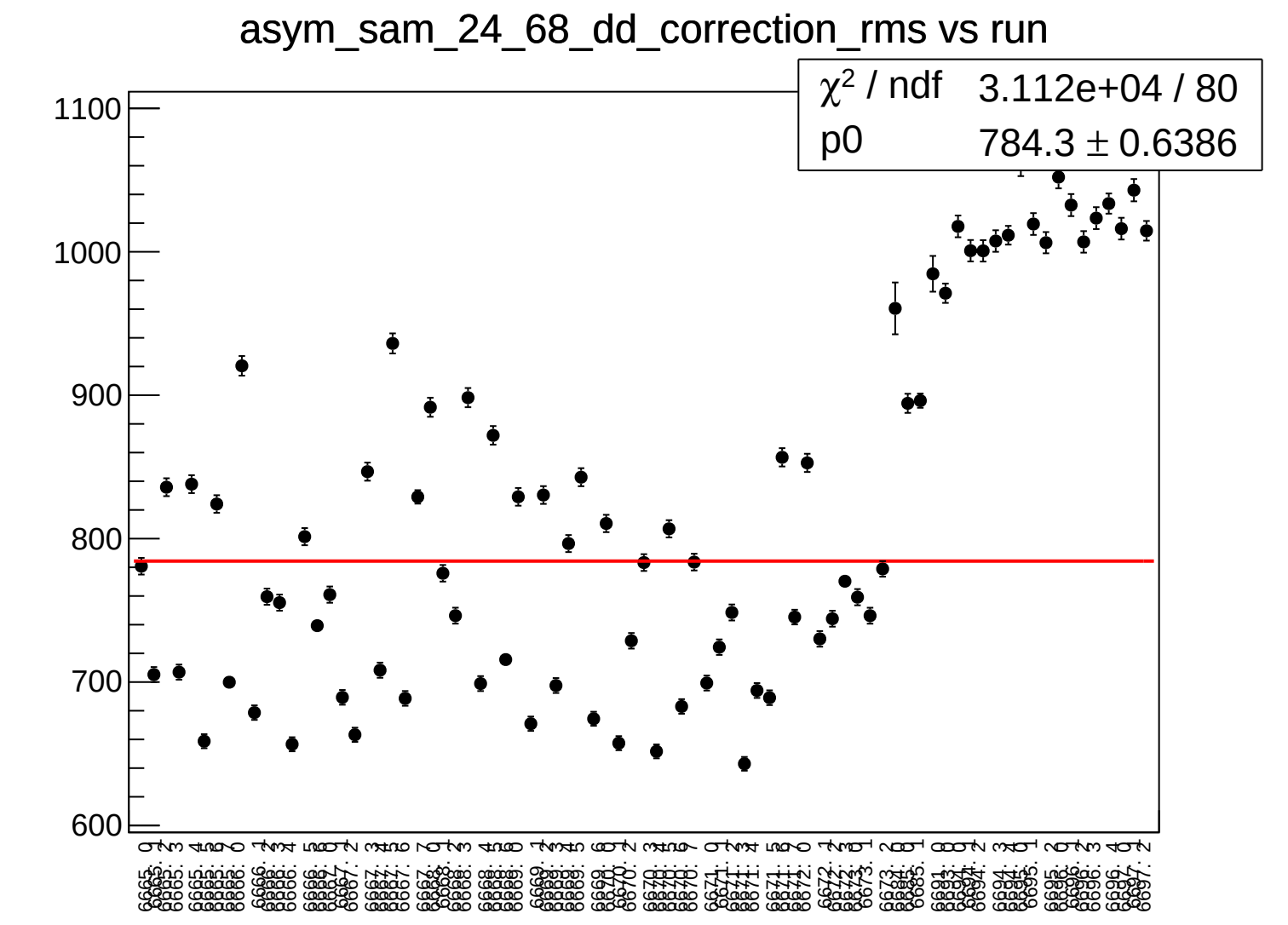

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 83.45 / 80
p0 3.409 ± 80.38
pull
Entries 81
Mean −74.59
Std Dev 135

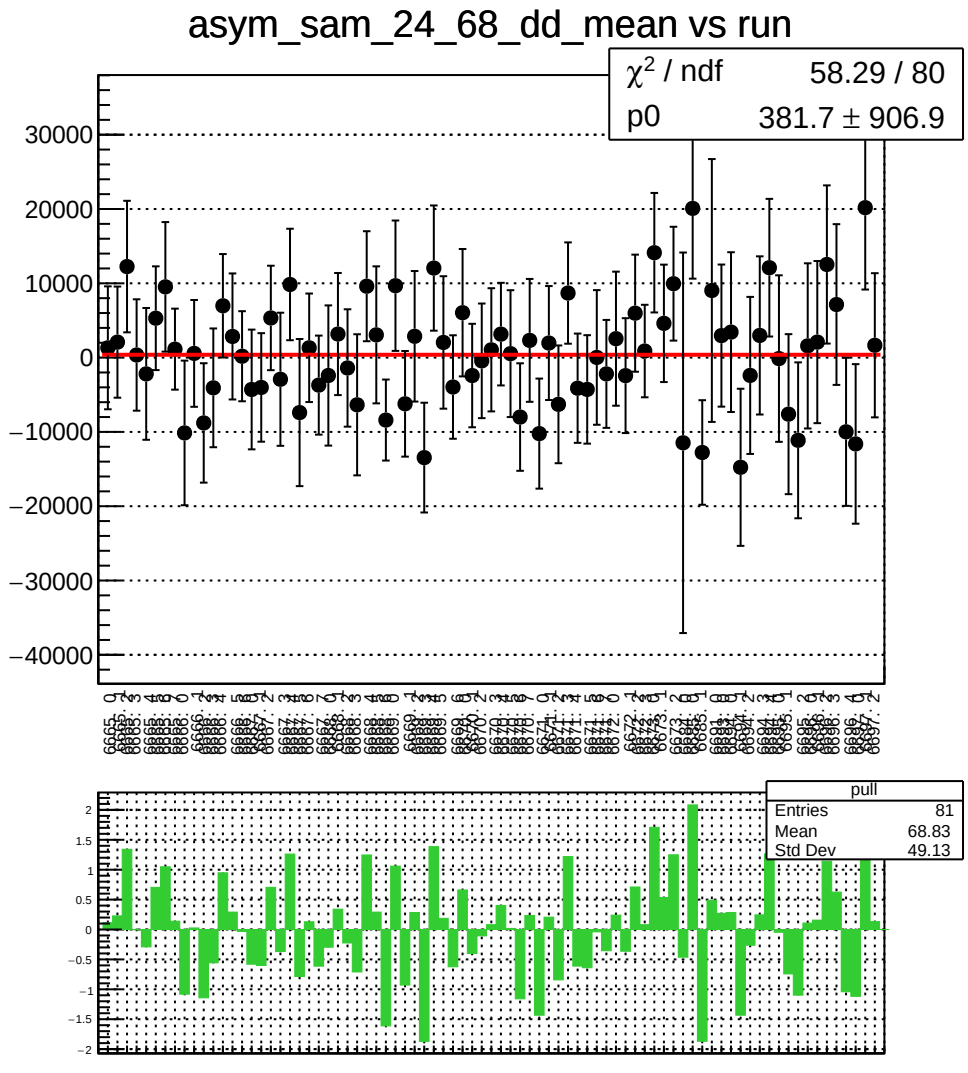

pull1D
Entries 81
Mean −0.006965
Std Dev 1.015

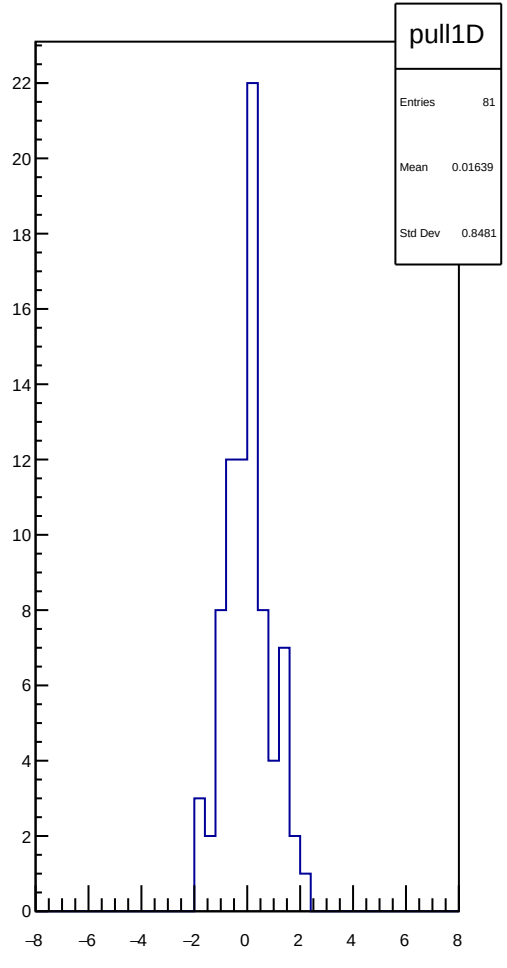

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 3796 / 80
p0 70.44 ± 0.05683
82
80
78
76
74
72
70
68
66
64

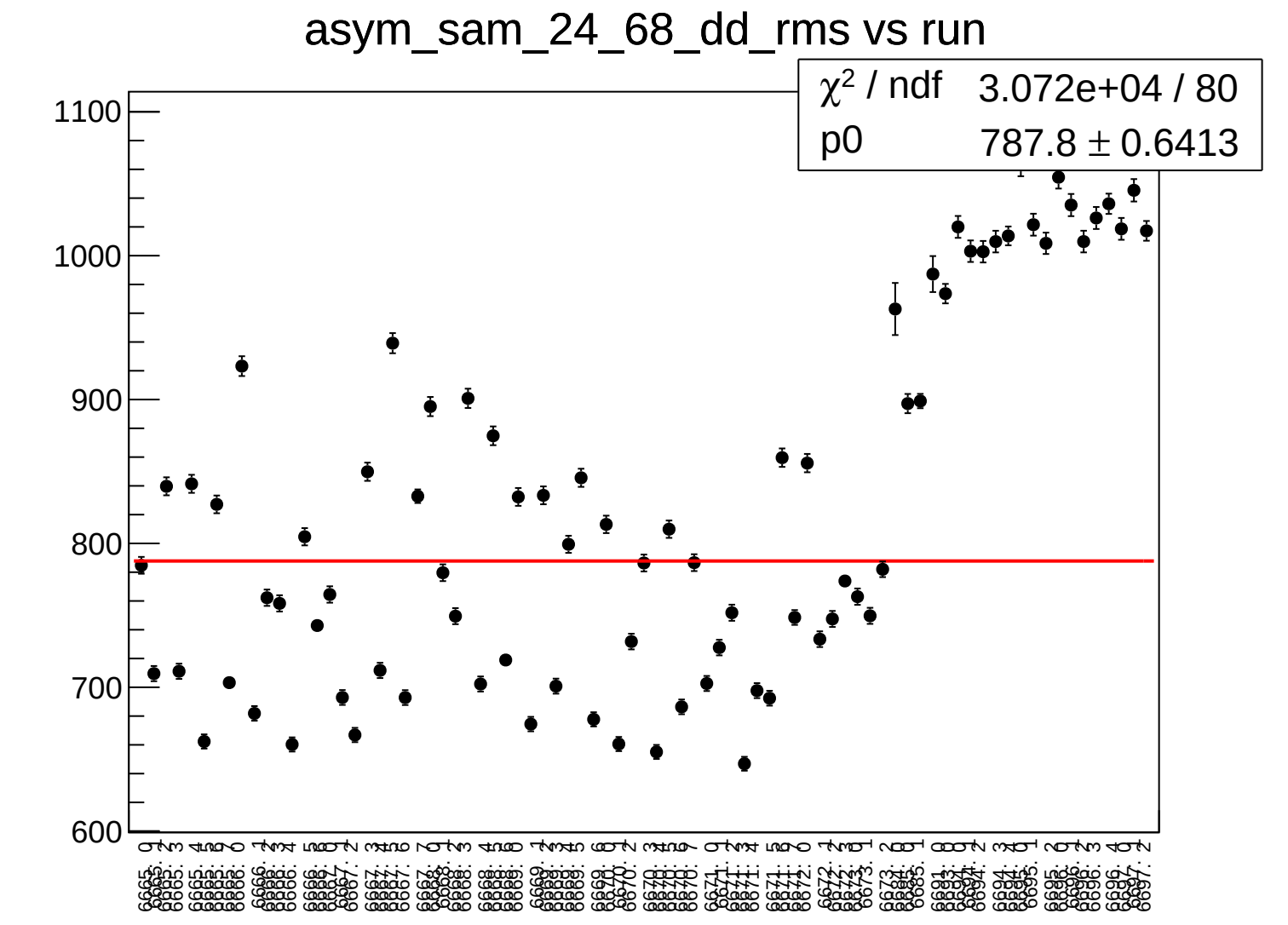

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 54.89 / 80
p0 −392 ± 903.1
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 67.61
Std Dev 46.88
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

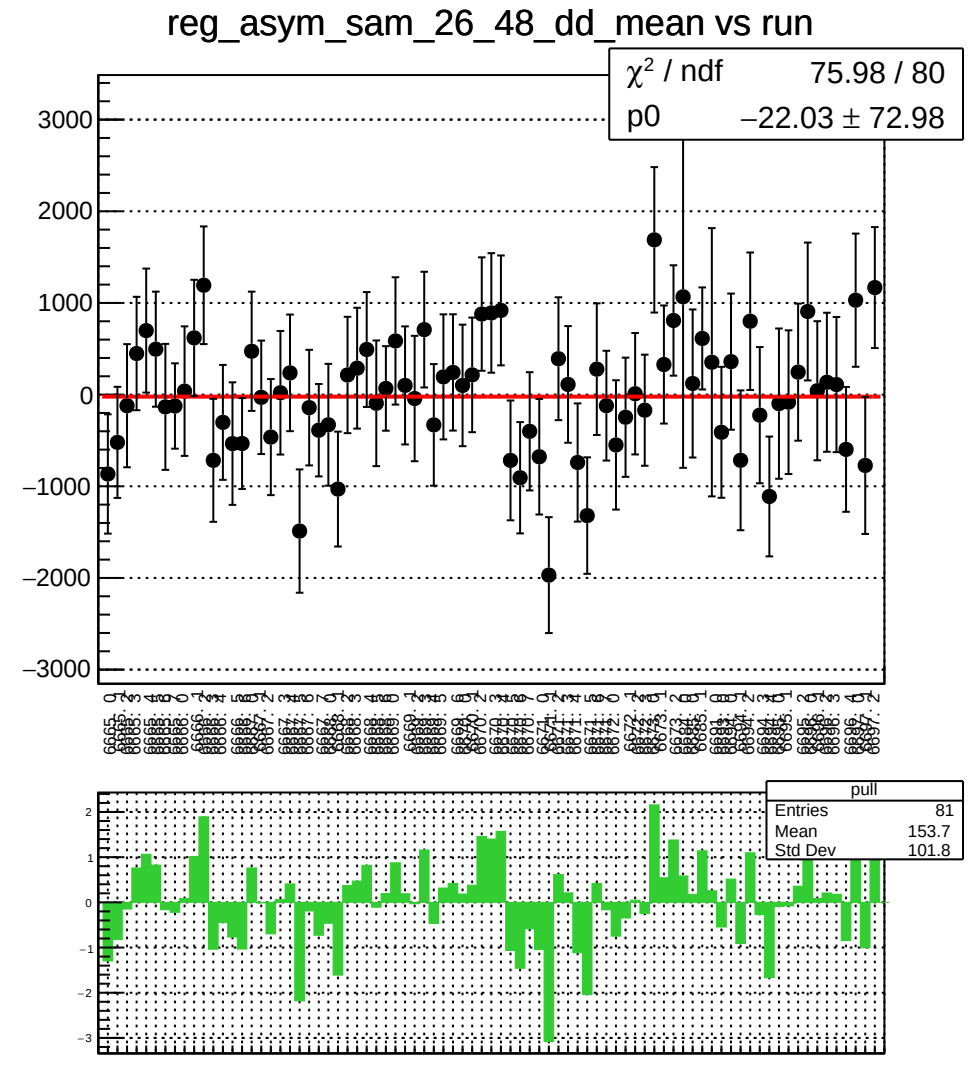

pull1D
Entries 81
Mean −0.01641
Std Dev 0.823
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

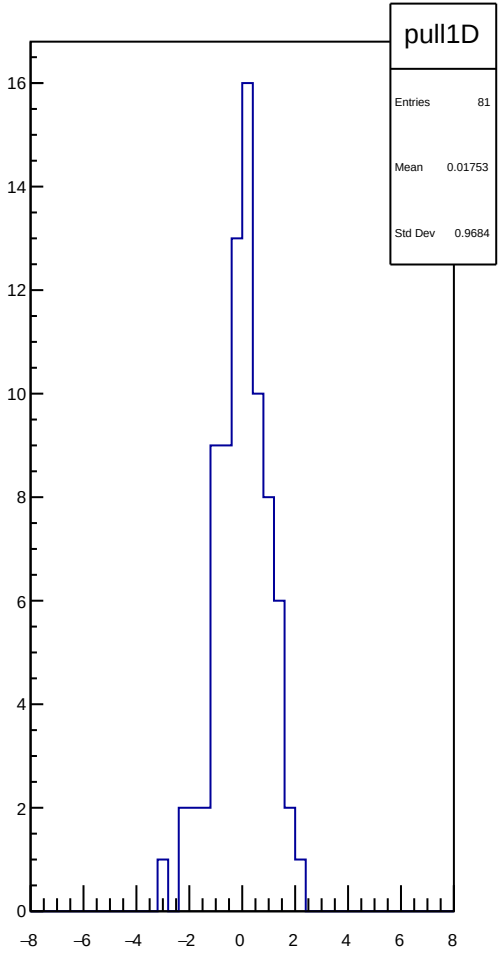

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 3.112e+04 / 80
p0 784.3 ± 0.6386
1100
1000
900
800
700
600

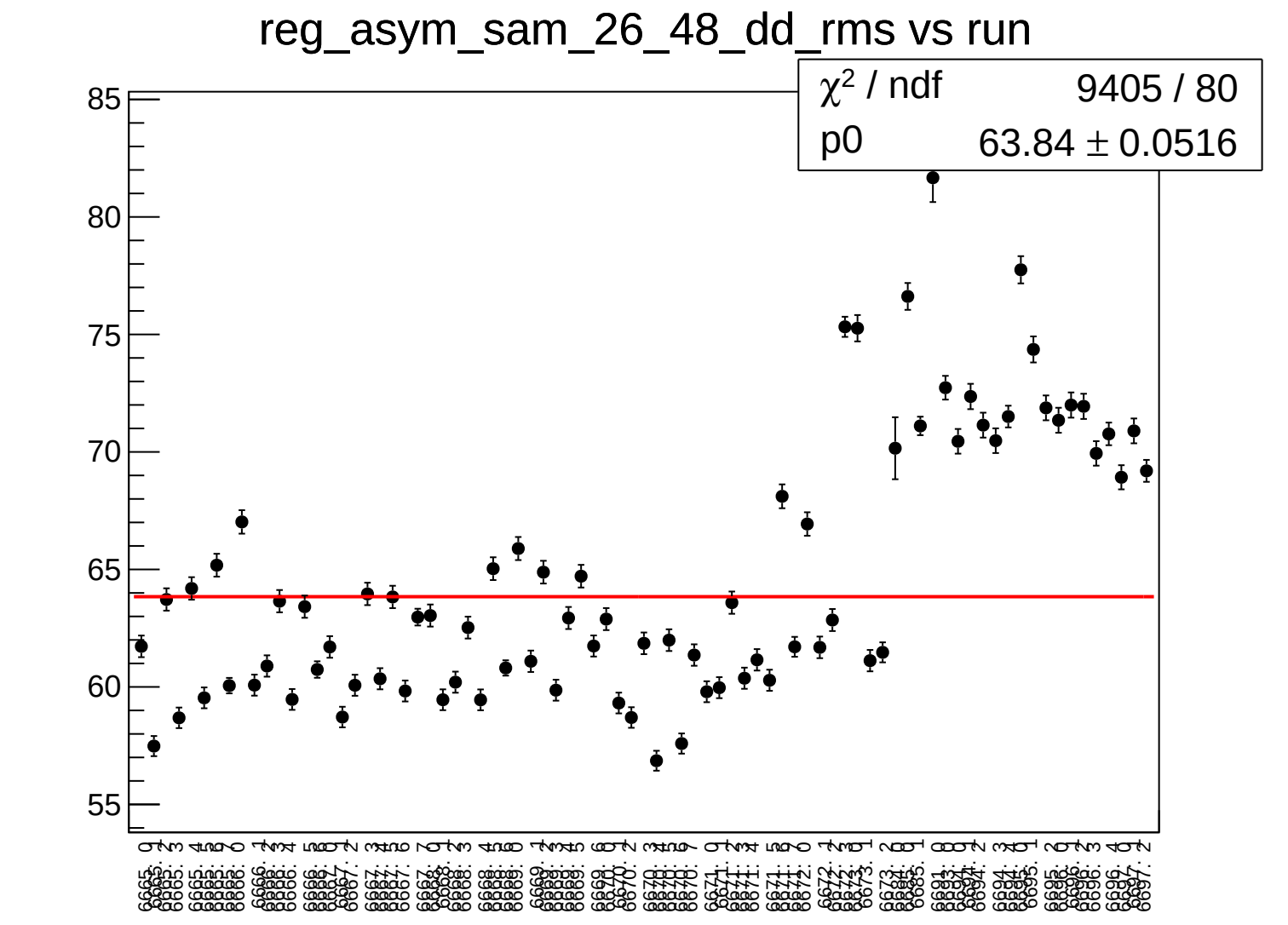

asym_sam_24_68_dd_mean vs run
χ² / ndf 58.29 / 80
p0 381.7 ± 906.9
pull
Entries 81
Mean 68.83
Std Dev 49.13

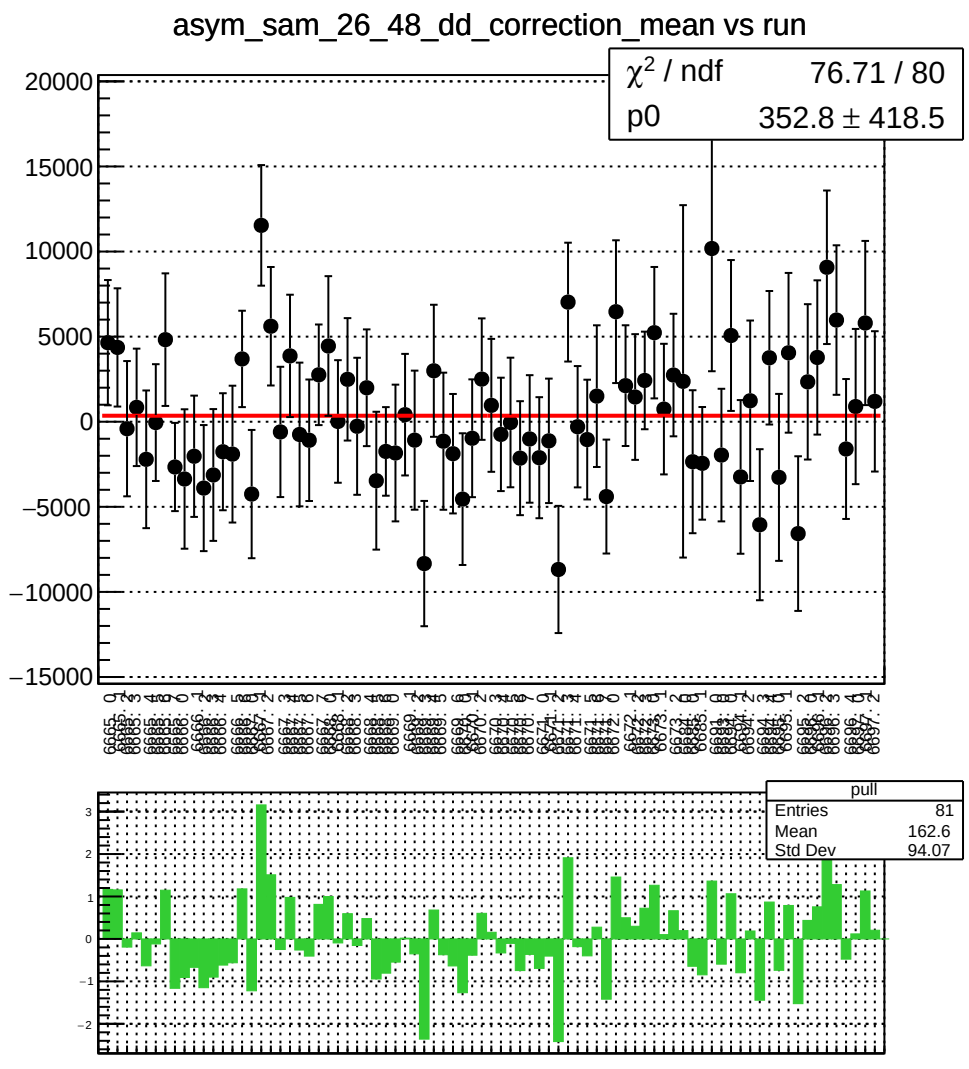

pull1D
Entries 81
Mean 0.01639
Std Dev 0.8481

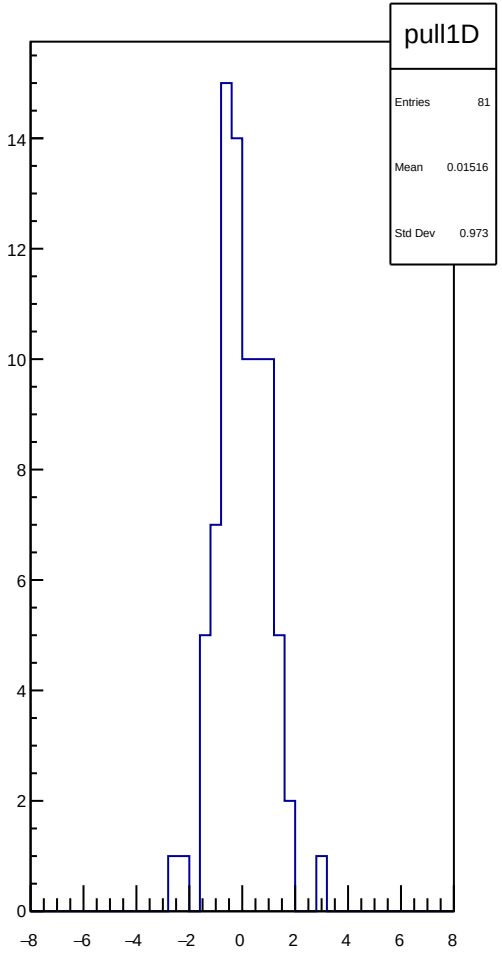

asym_sam_24_68_dd_rms vs run
χ² / ndf 3.072e+04 / 80
p0 787.8 ± 0.6413
1100
1000
900
800
700
600

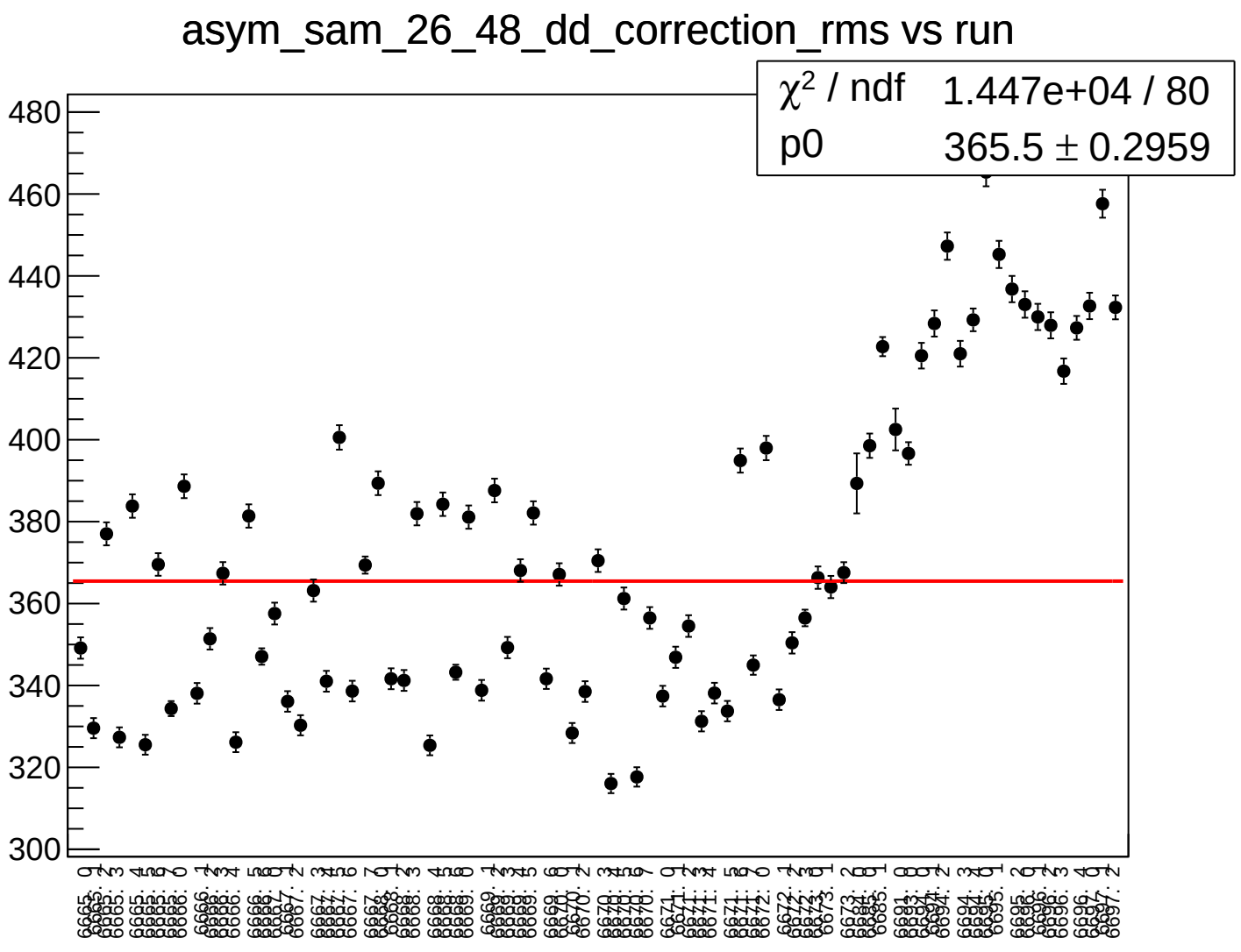

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 75.98 / 80
p0 −22.03 ± 72.98
pull
Entries 81
Mean 153.7
Std Dev 101.8

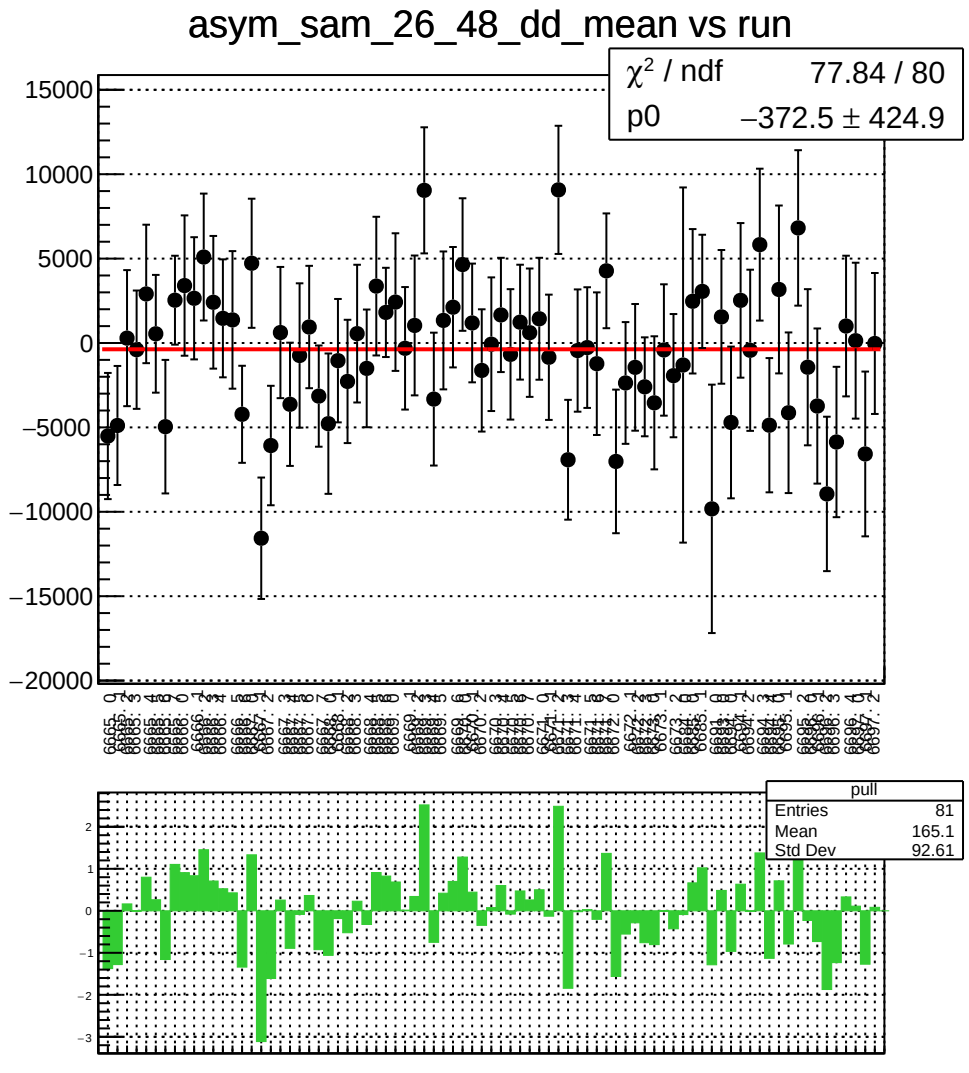

pull1D
Entries 81
Mean 0.01753
Std Dev 0.9684

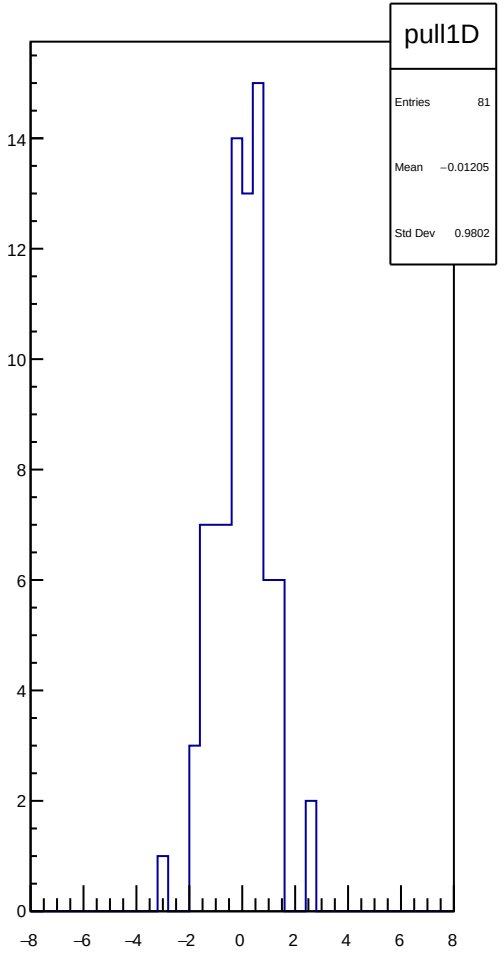

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 9405 / 80
p0 63.84 ± 0.0516
85
80
75
70
65
60
55

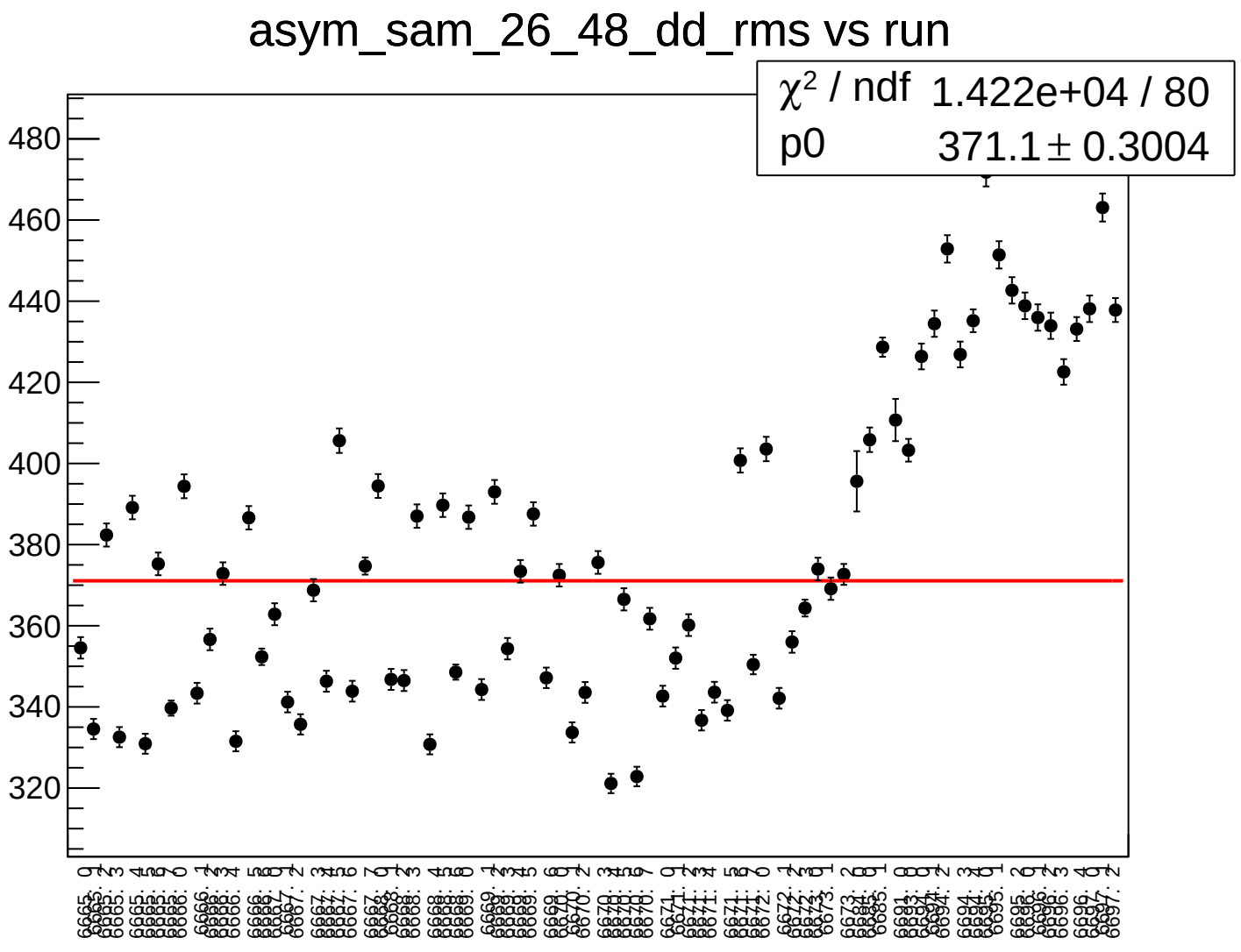

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 76.71 / 80
p0 352.8 ± 418.5
pull
Entries 81
Mean 162.6
Std Dev 94.07

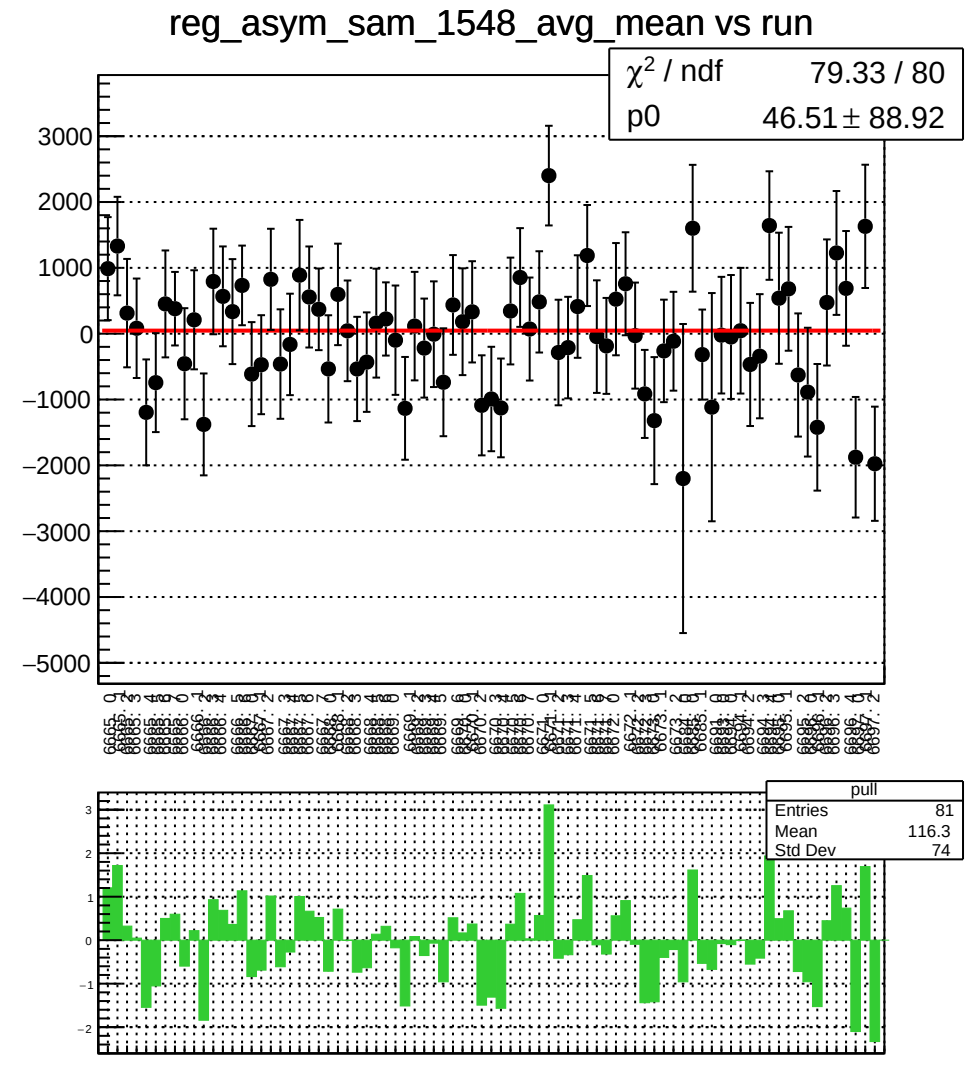

pull1D
Entries 81
Mean 0.01516
Std Dev 0.973

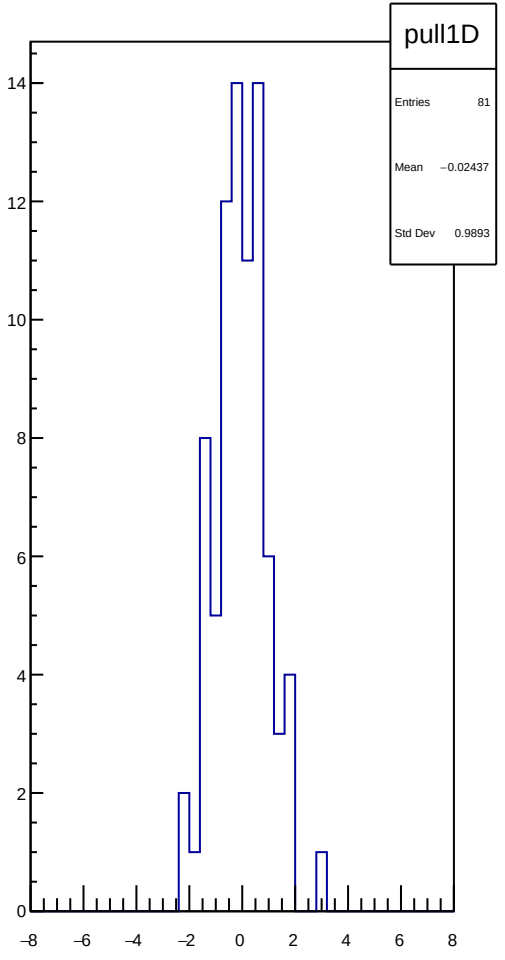

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 1.447e+04 / 80
p0 365.5 ± 0.2959
480
460
440
420
400
380
360
340
320
300

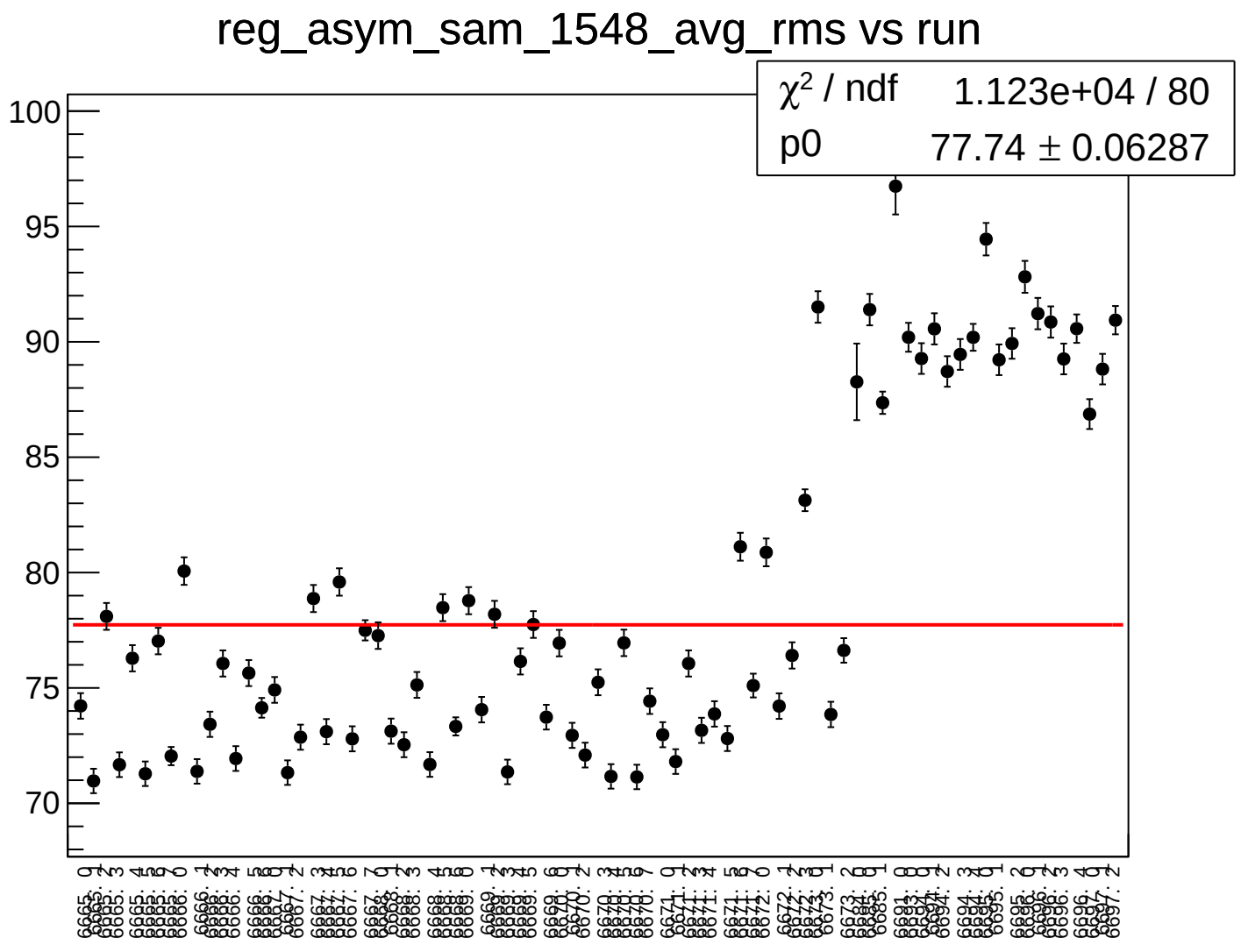

asym_sam_26_48_dd_mean vs run
χ² / ndf 77.84 / 80
p0 −372.5 ± 424.9
pull
Entries 81
Mean 165.1
Std Dev 92.61

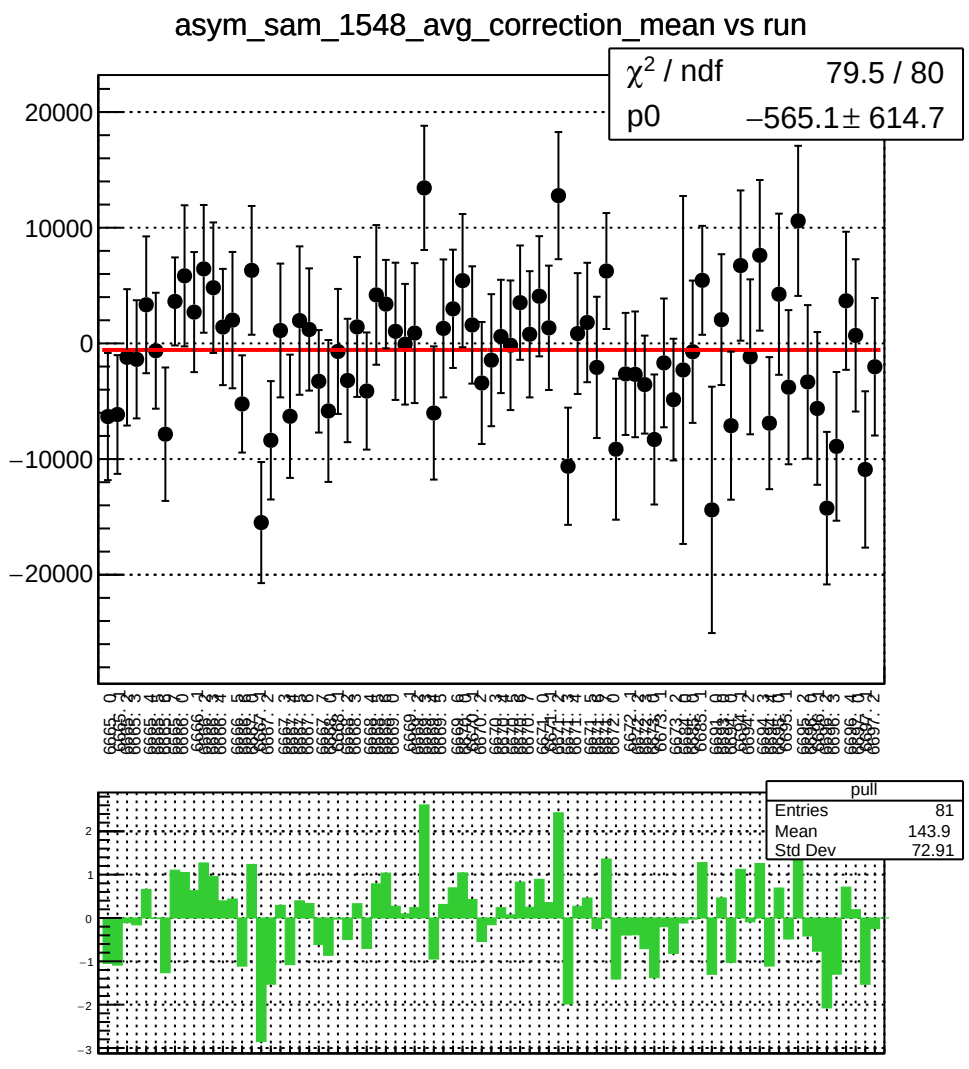

pull1D
Entries 81
Mean −0.01205
Std Dev 0.9802

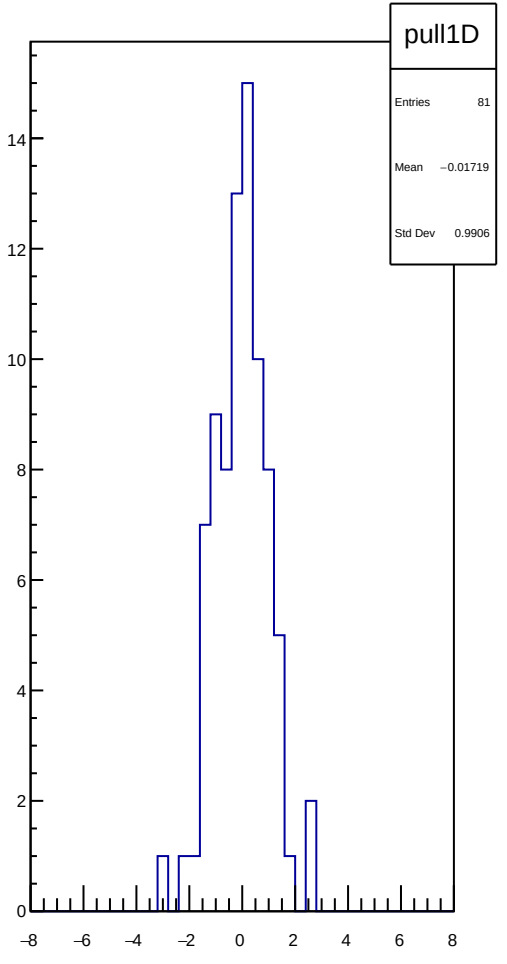

asym_sam_26_48_dd_rms vs run
χ² / ndf 1.422e+04 / 80
p0 371.1 ± 0.3004
480
460
440
420
400
380
360
340
320

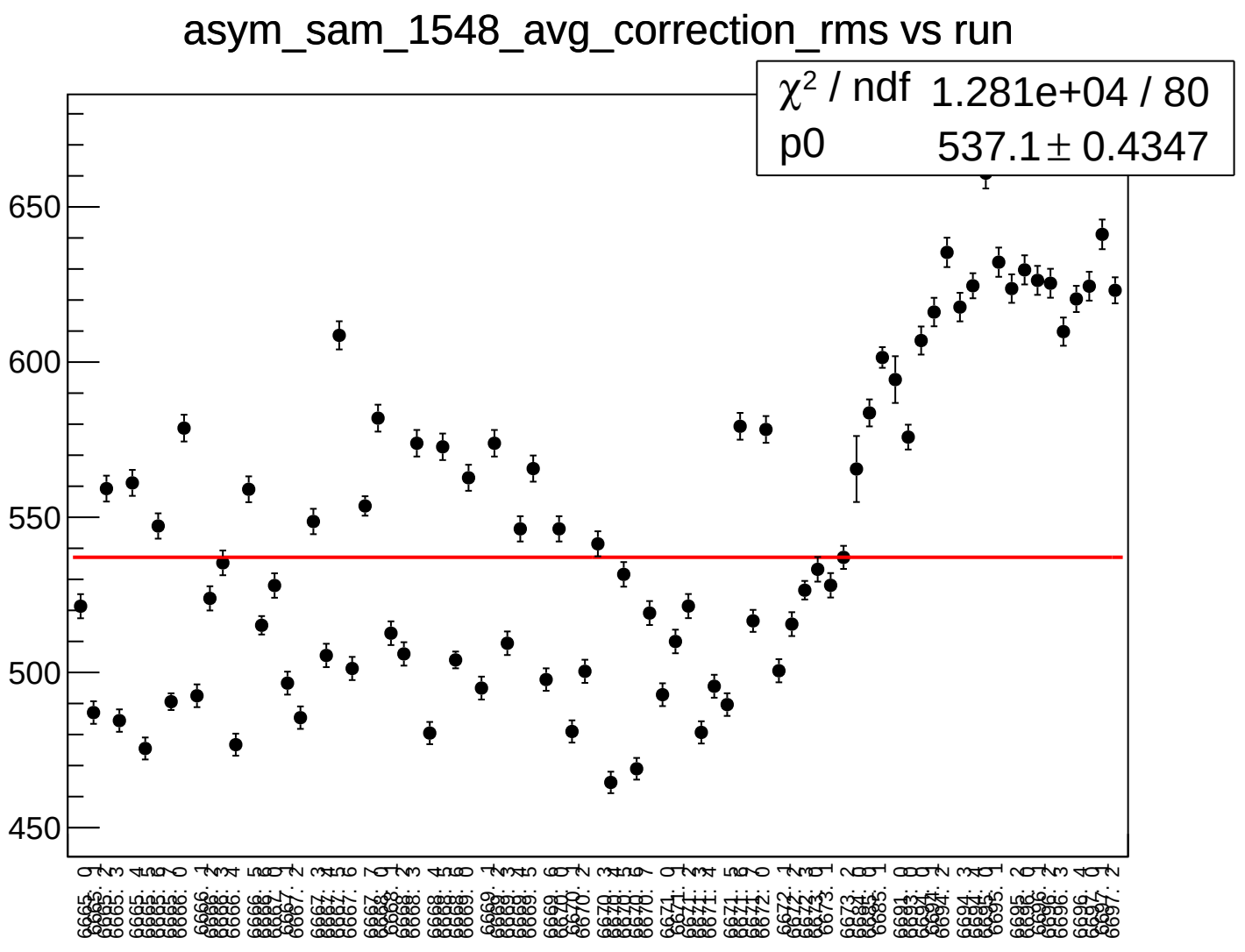

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 79.33 / 80
p0 46.51 ± 88.92
pull
Entries 81
Mean 116.3
Std Dev 74

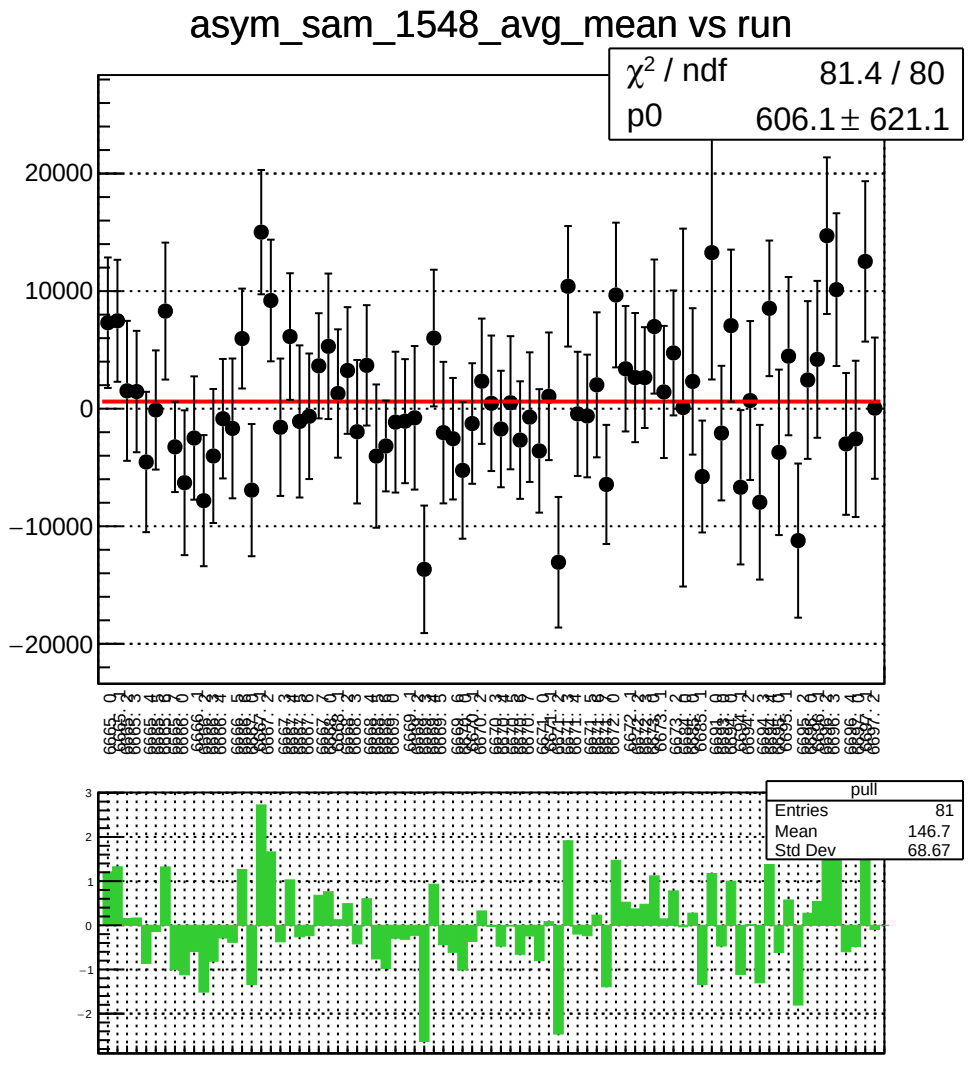

pull1D
Entries 81
Mean −0.02437
Std Dev 0.9893

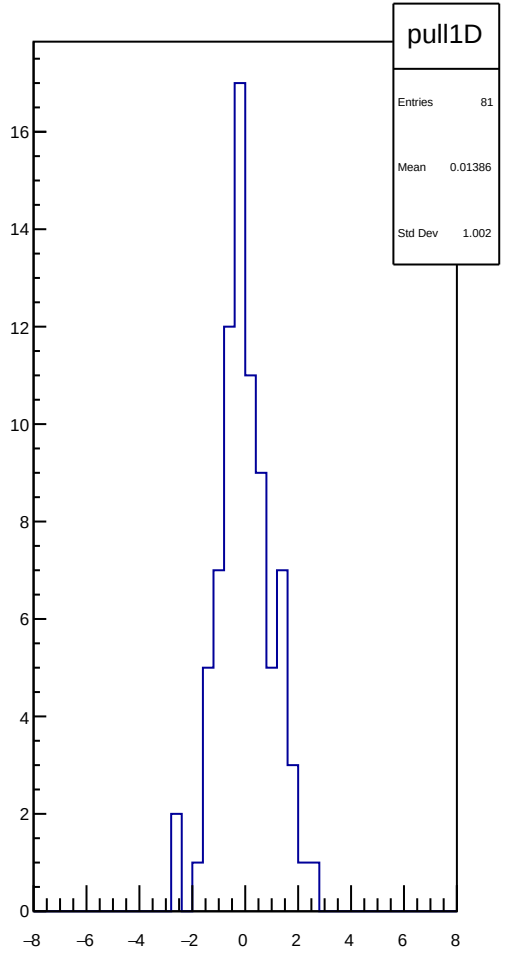

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.123e+04 / 80
p0 77.74 ± 0.06287
100
95
90
85
80
75
70

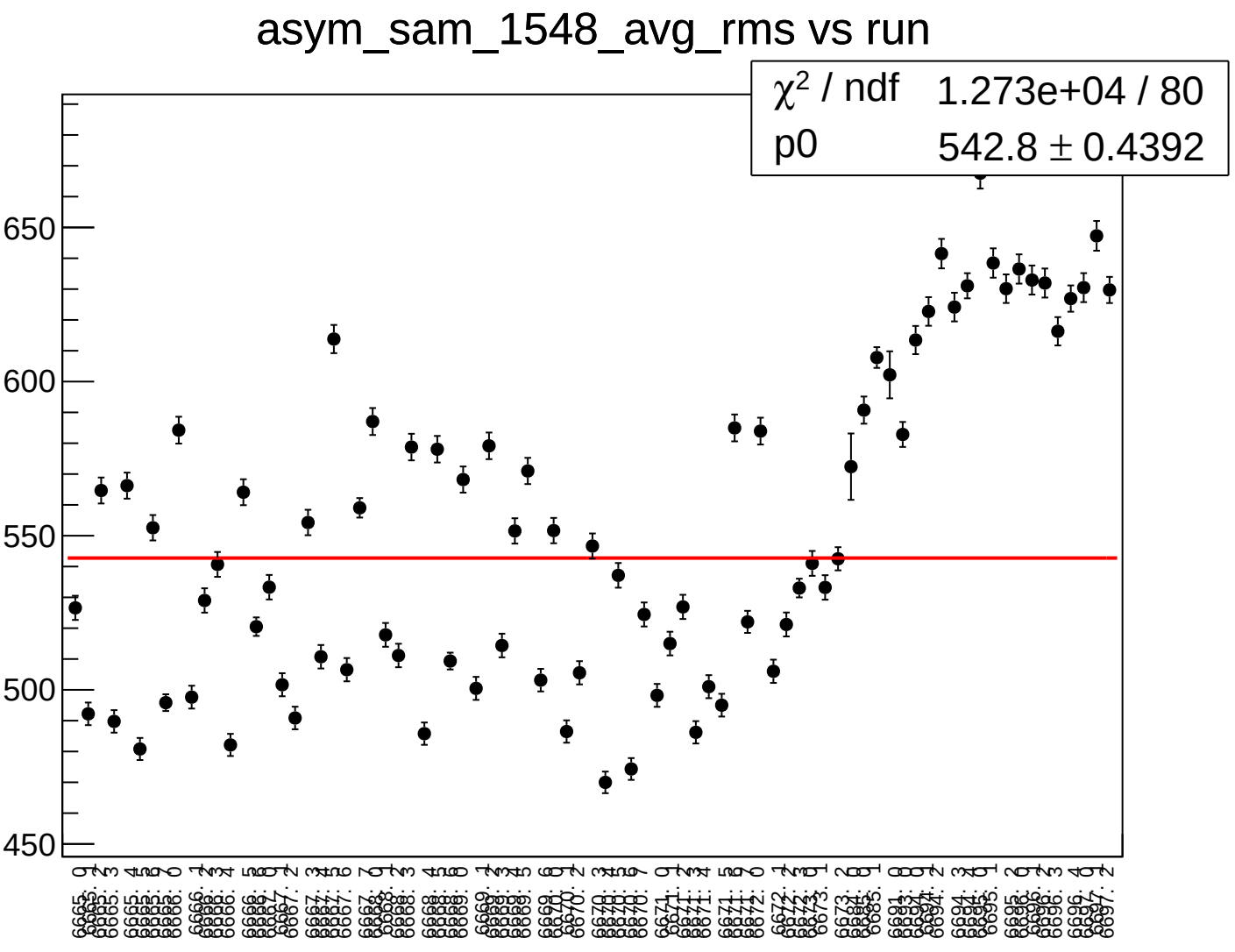

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 79.5 / 80
p0 −565.1 ± 614.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 143.9
Std Dev 72.91
2
1
0
−1
−2
−3

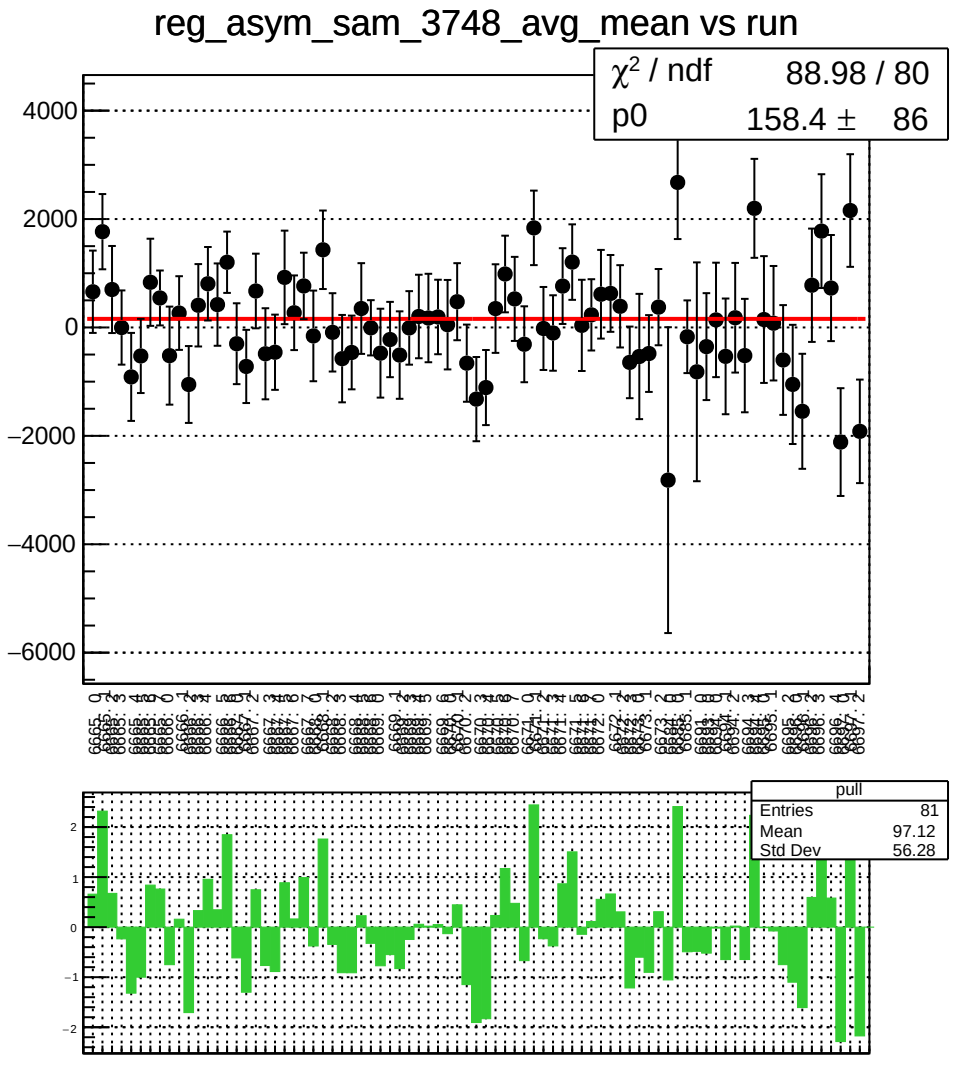

pull1D
Entries 81
Mean −0.01719
Std Dev 0.9906
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

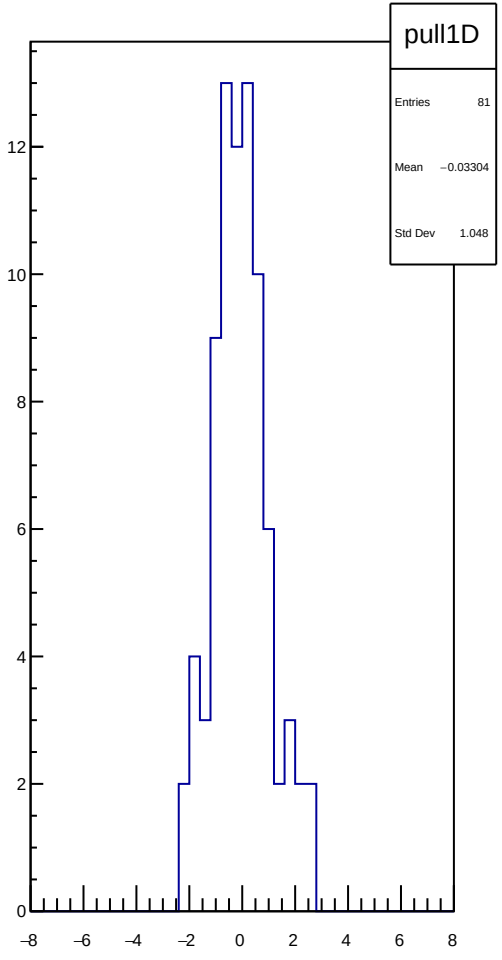

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 1.281e+04 / 80
p0 537.1 ± 0.4347
650
600
550
500
450

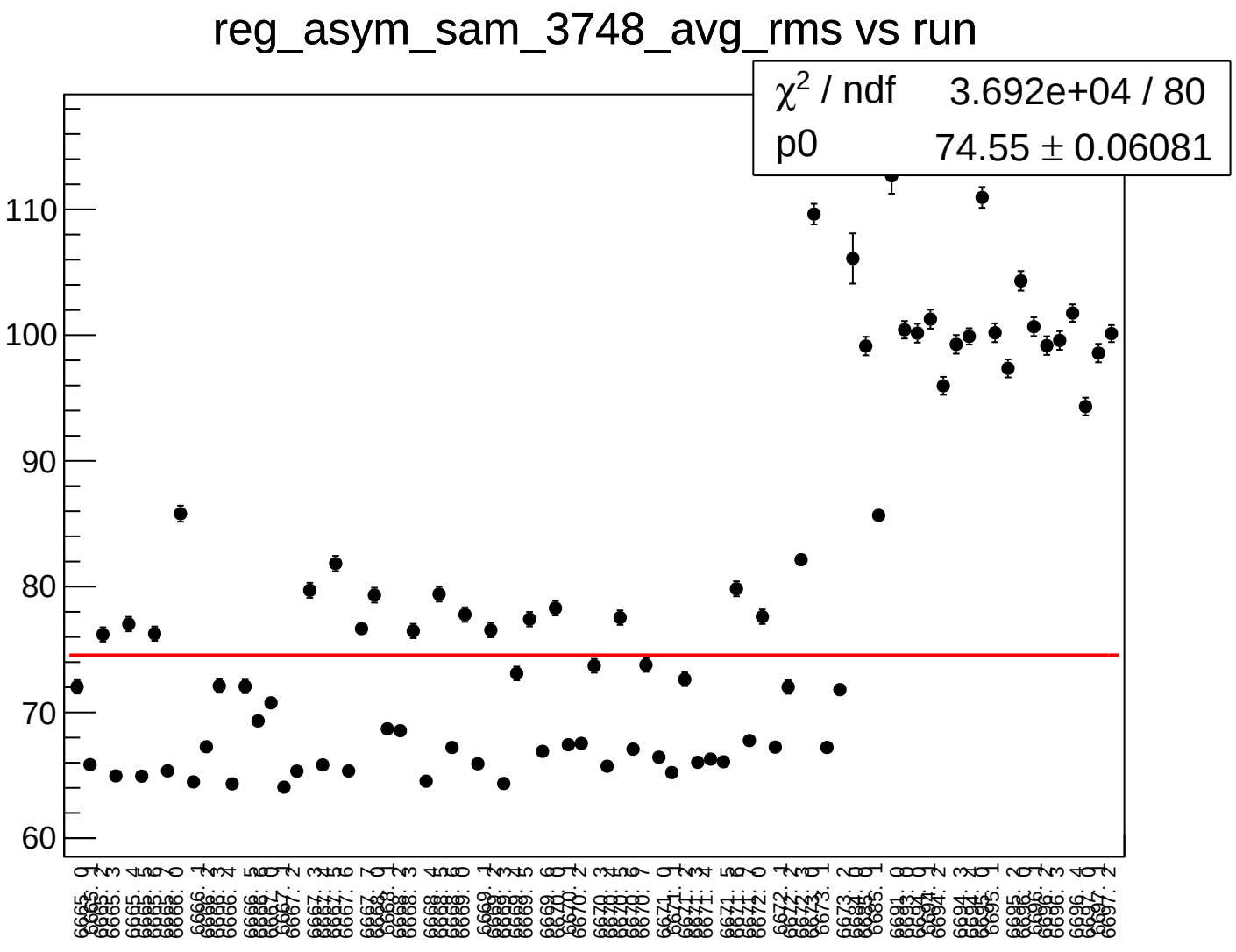

asym_sam_1548_avg_mean vs run
χ² / ndf 81.4 / 80
p0 606.1 ± 621.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 146.7
Std Dev 68.67
3
2
1
0
−1
−2

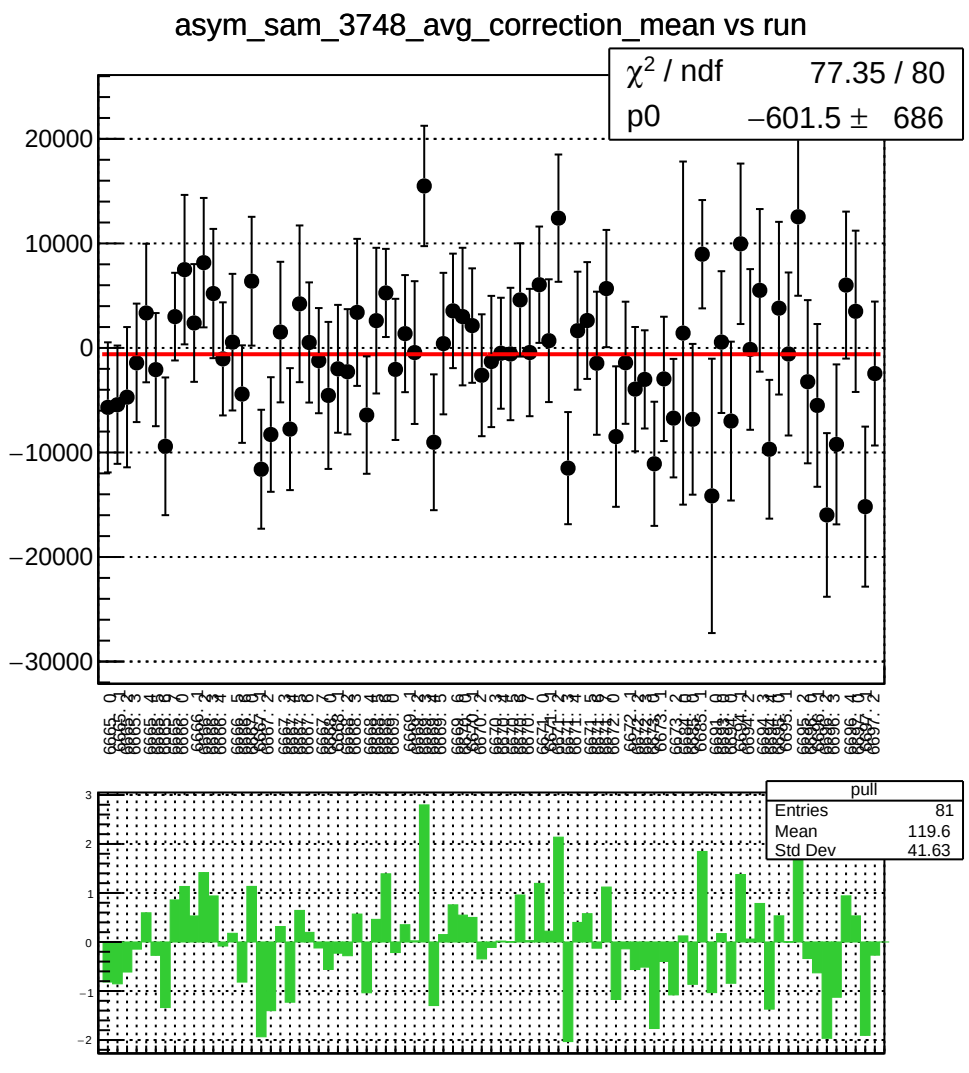

pull1D
Entries 81
Mean 0.01386
Std Dev 1.002
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

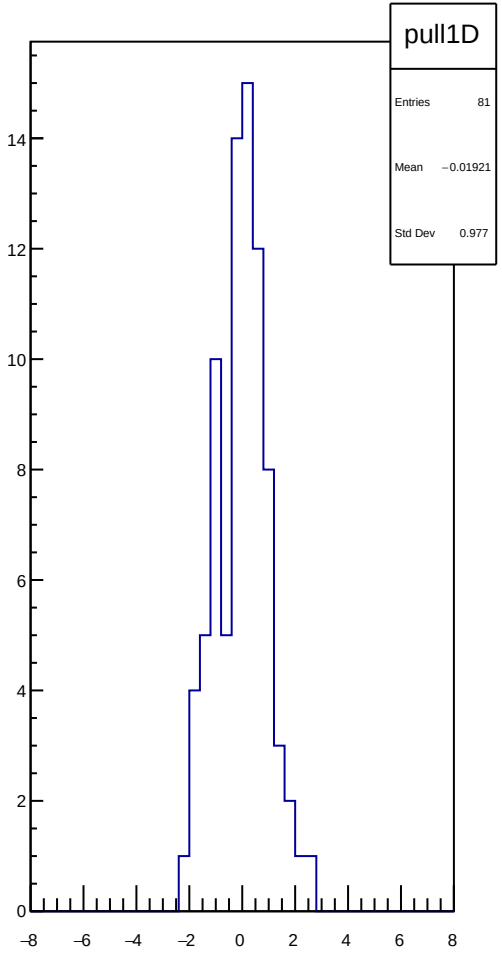

asym_sam_1548_avg_rms vs run
χ² / ndf 1.273e+04 / 80
p0 542.8 ± 0.4392
650
600
550
500
450

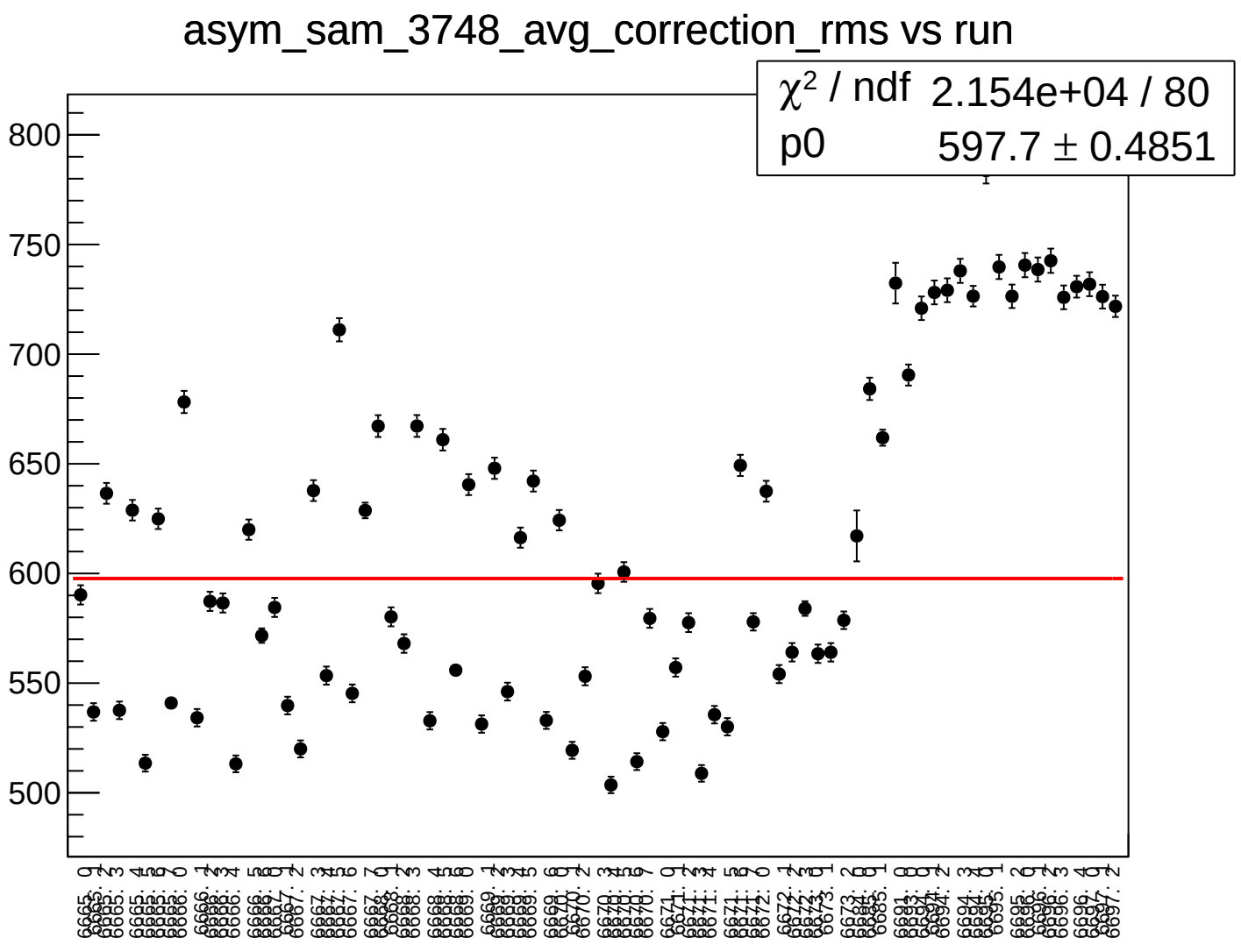

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 88.98 / 80
p0 158.4 ± 86
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 97.12
Std Dev 56.28
2
1
0
−1
−2

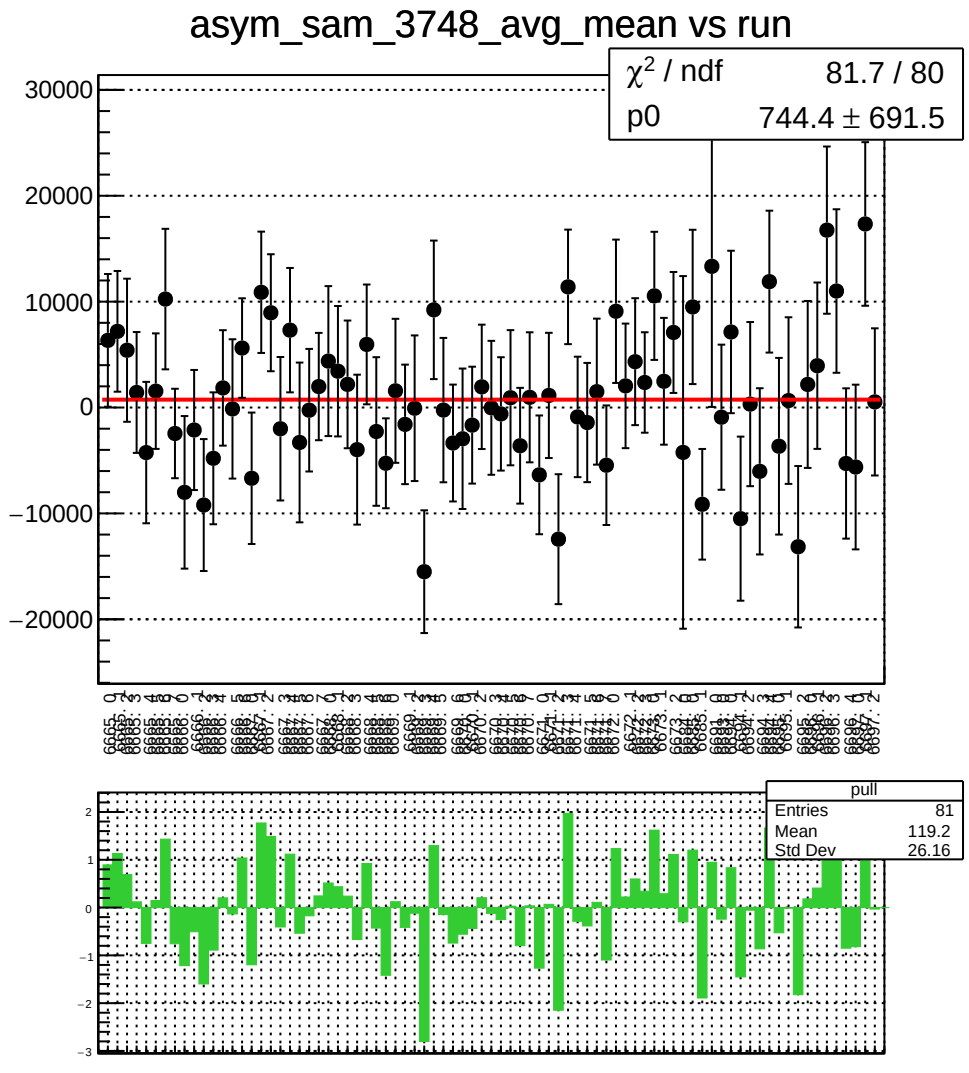

pull1D
Entries 81
Mean −0.03304
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

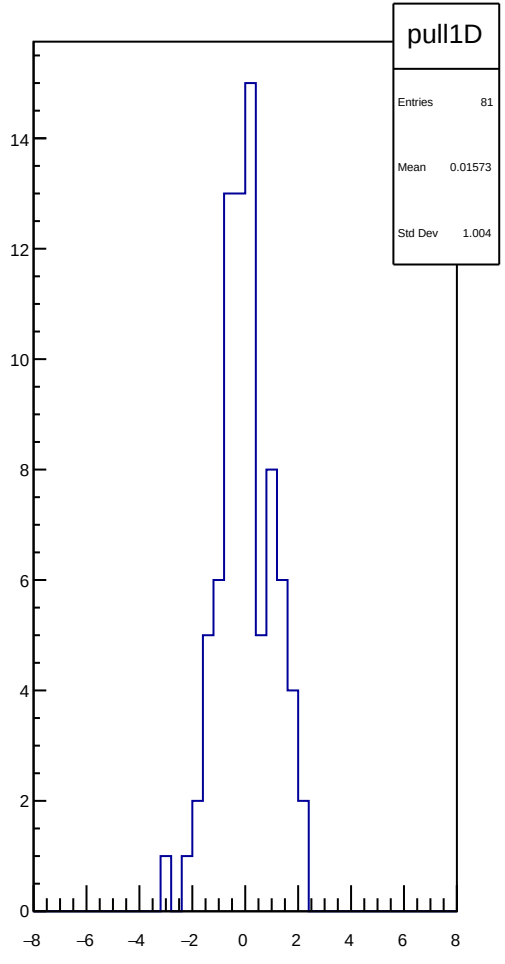

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 3.692e+04 / 80
p0 74.55 ± 0.06081
110
100
90
80
70
60

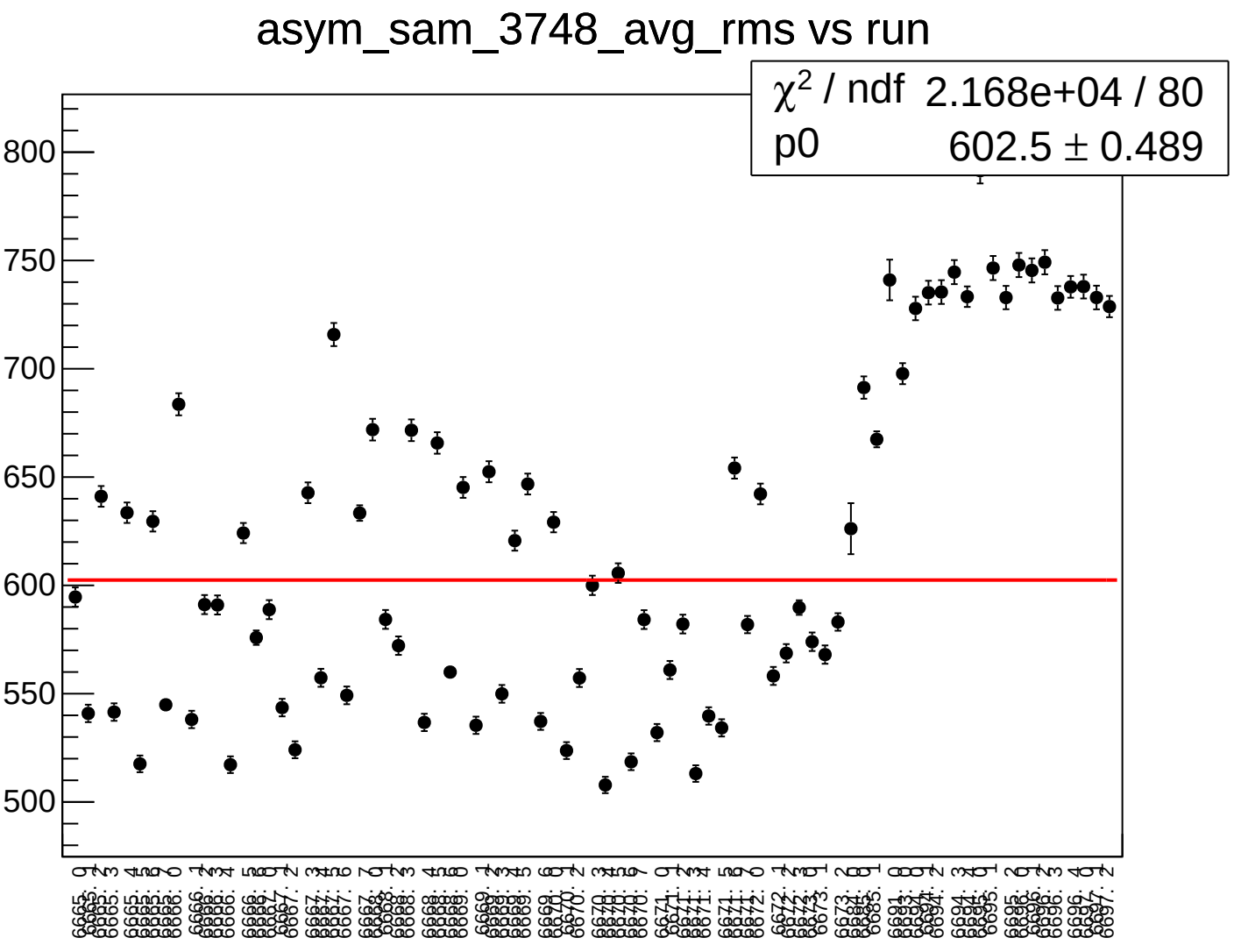

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 77.35 / 80
p0 −601.5 ± 686
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 119.6
Std Dev 41.63
3
2
1
0
−1
−2

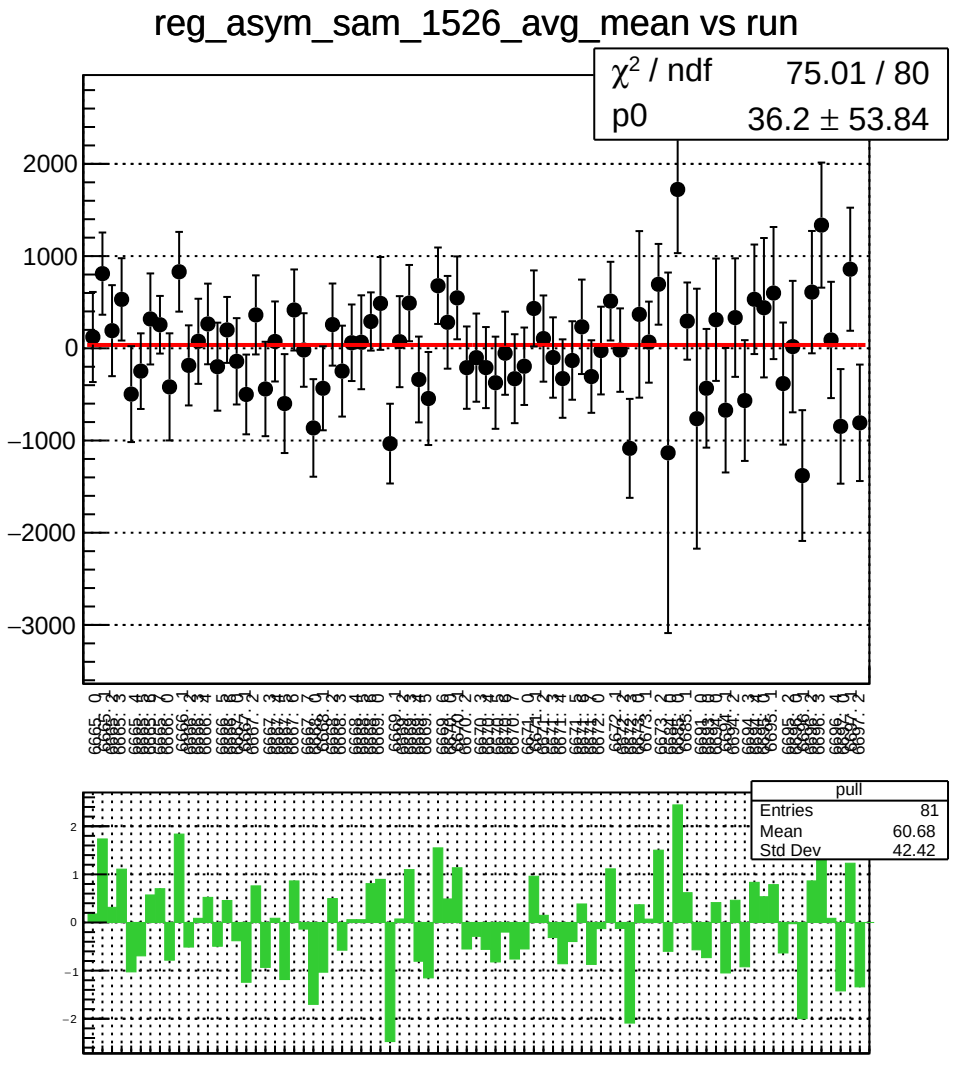

pull1D
Entries 81
Mean −0.01921
Std Dev 0.977
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

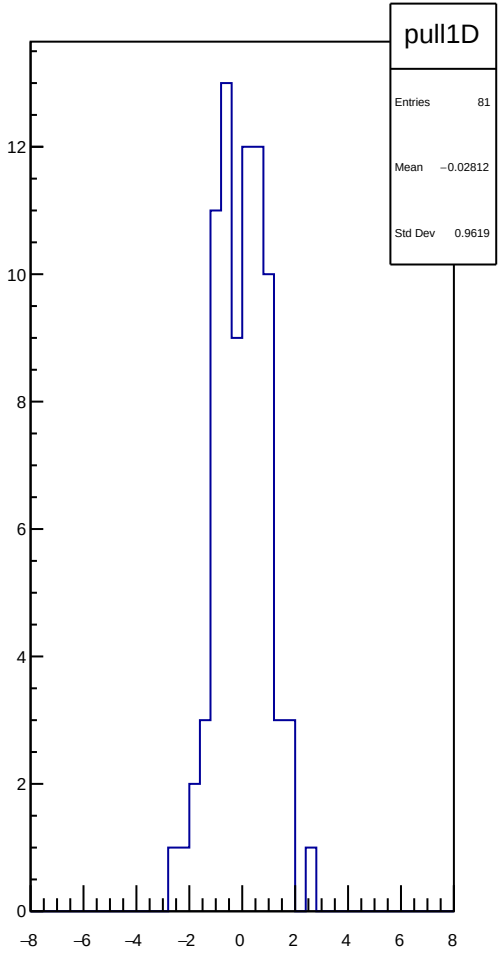

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 2.154e+04 / 80
p0 597.7 ± 0.4851
800
750
700
650
600
550
500

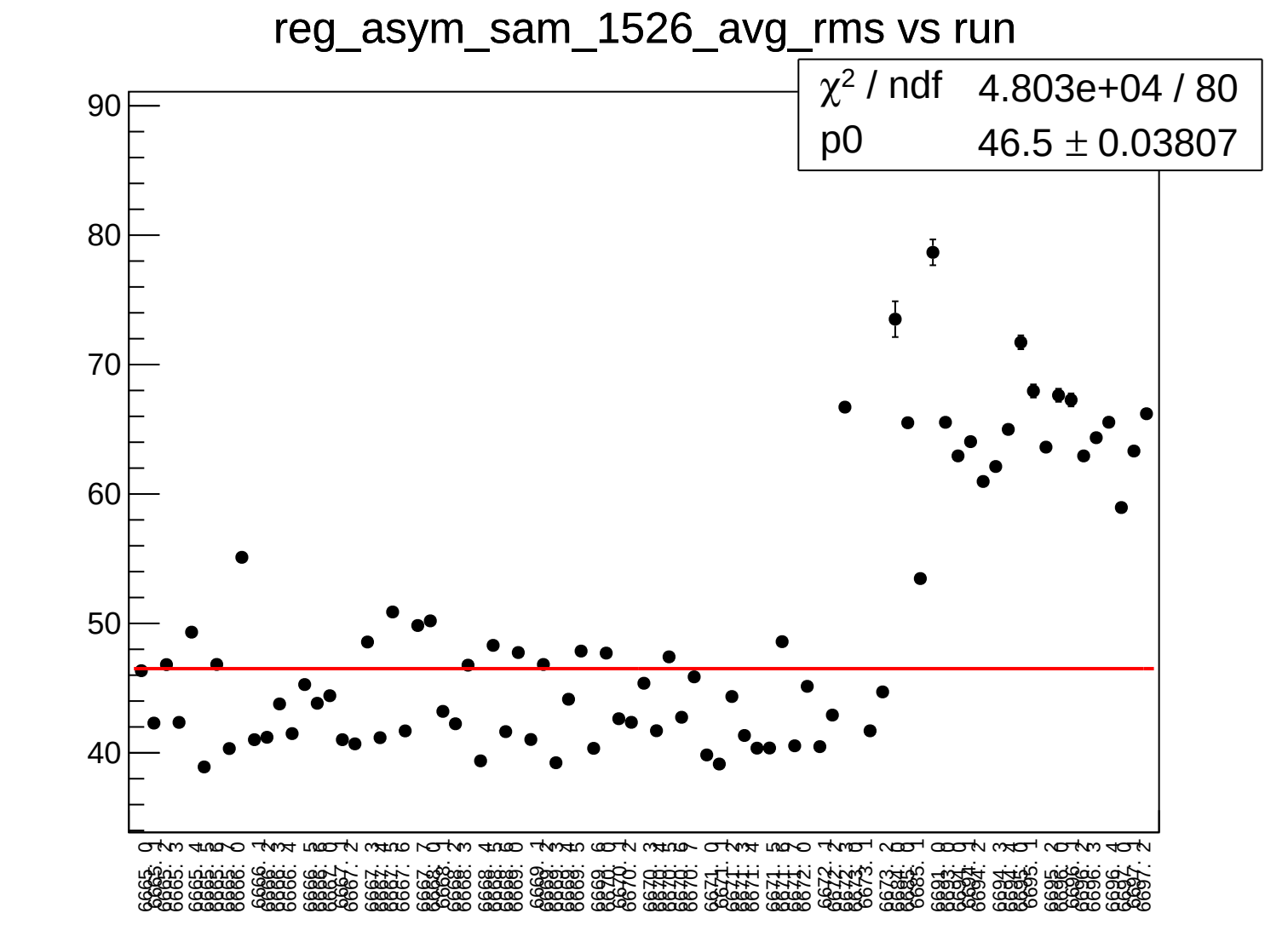

asym_sam_3748_avg_mean vs run
χ² / ndf 81.7 / 80
p0 744.4 ± 691.5
30000
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 119.2
Std Dev 26.16
2
1
0
−1
−2
−3

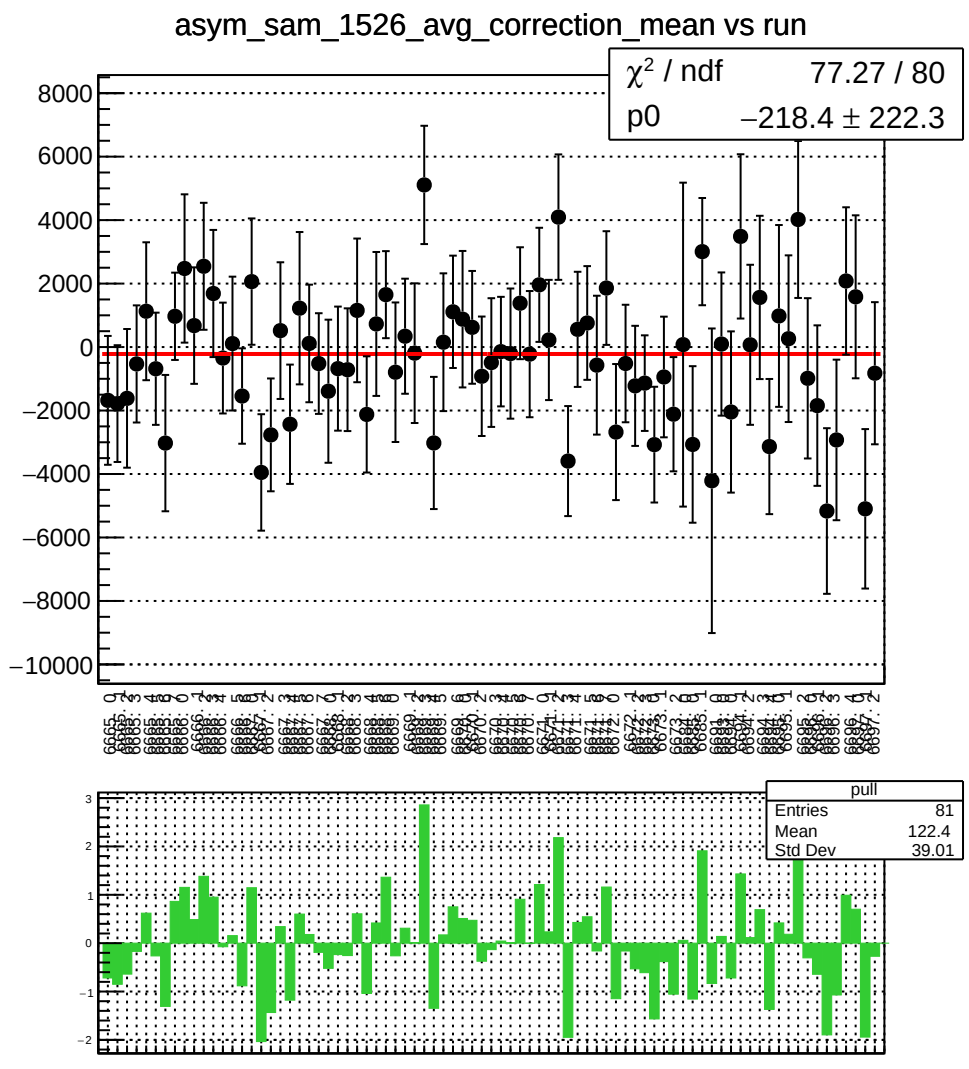

pull1D
Entries 81
Mean 0.01573
Std Dev 1.004
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

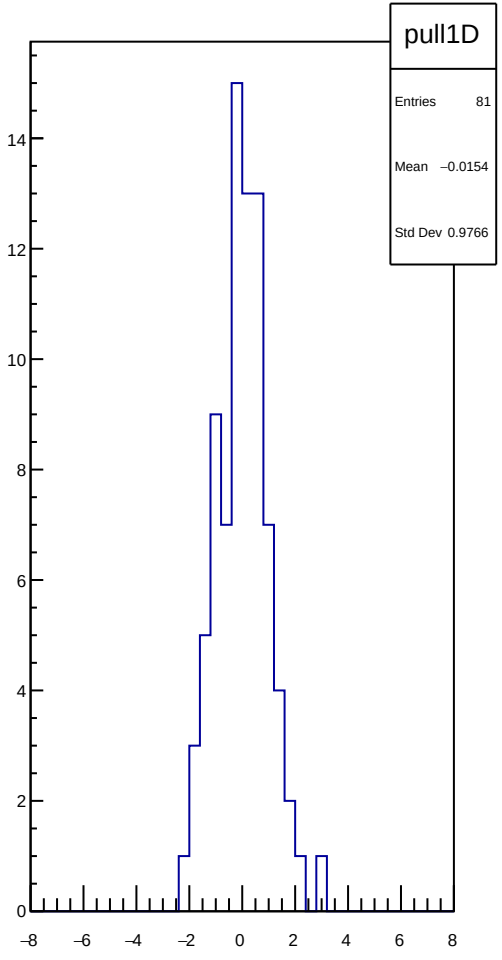

asym_sam_3748_avg_rms vs run
χ² / ndf 2.168e+04 / 80
p0 602.5 ± 0.489
800
750
700
650
600
550
500

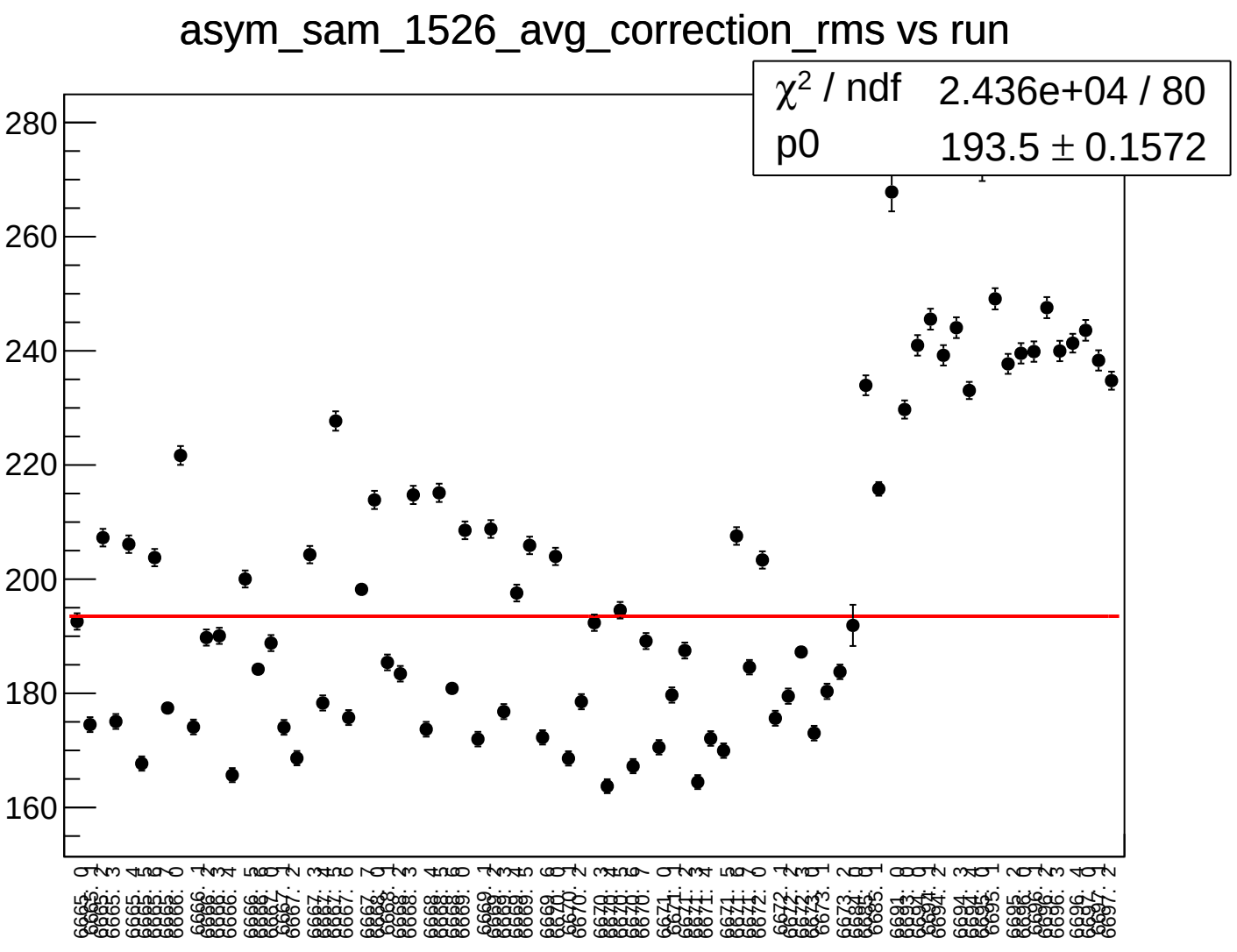

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 75.01 / 80
p0 36.2 ± 53.84
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 60.68
Std Dev 42.42
2
1
0
−1
−2

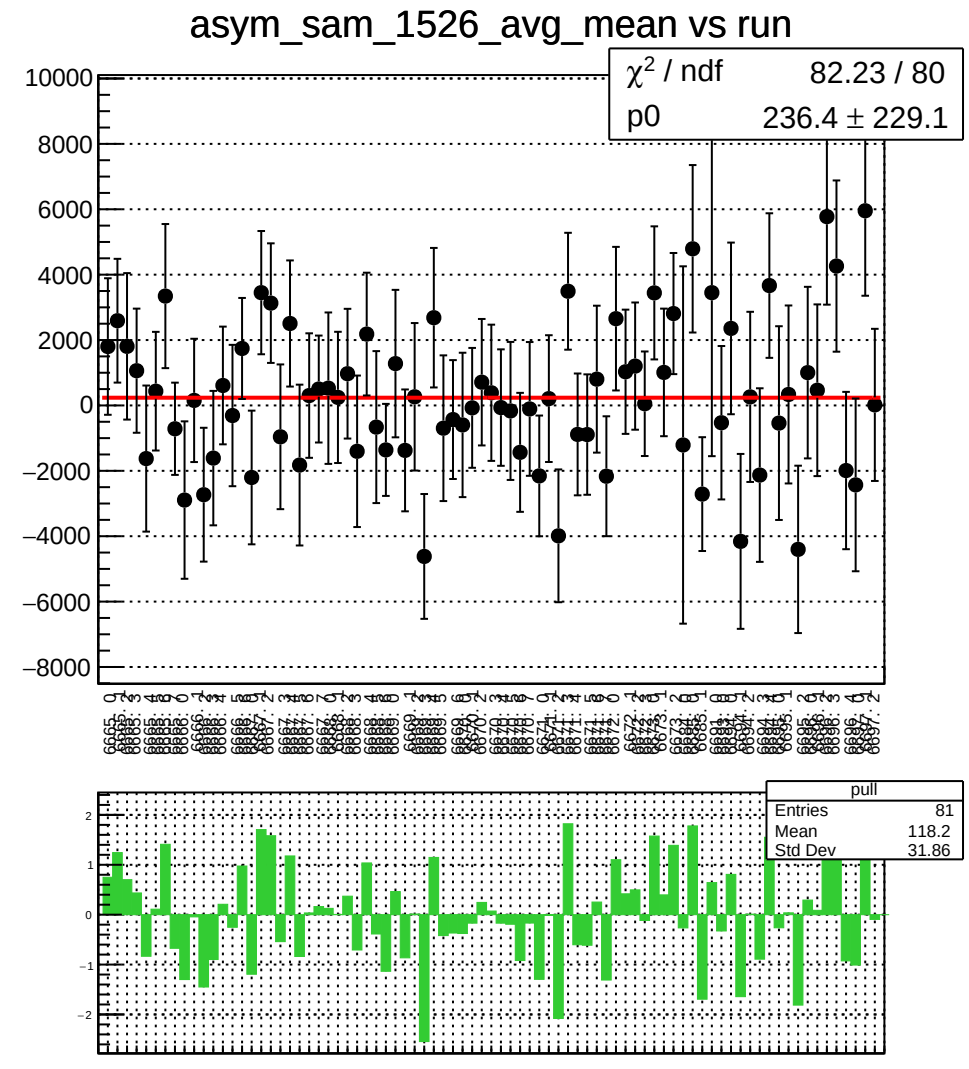

pull1D
Entries 81
Mean −0.02812
Std Dev 0.9619
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

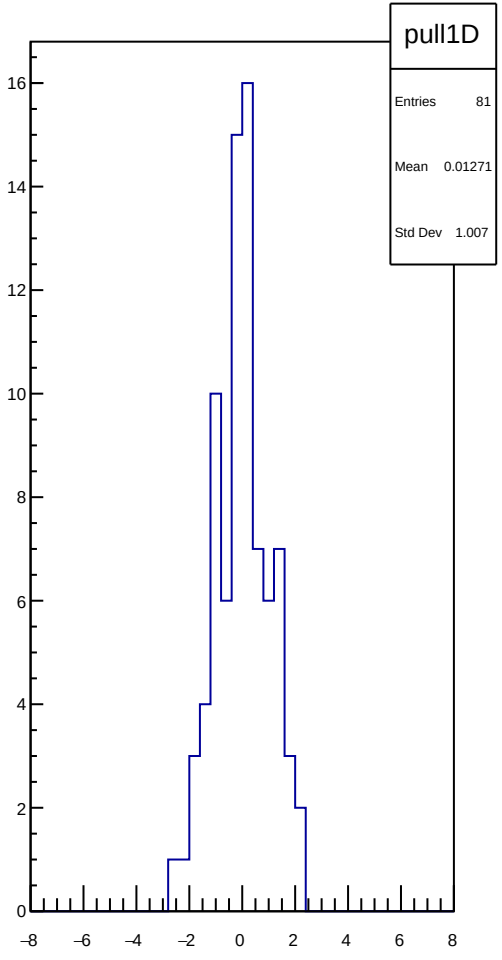

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4.803e+04 / 80
p0 46.5 ± 0.03807
90
80
70
60
50
40

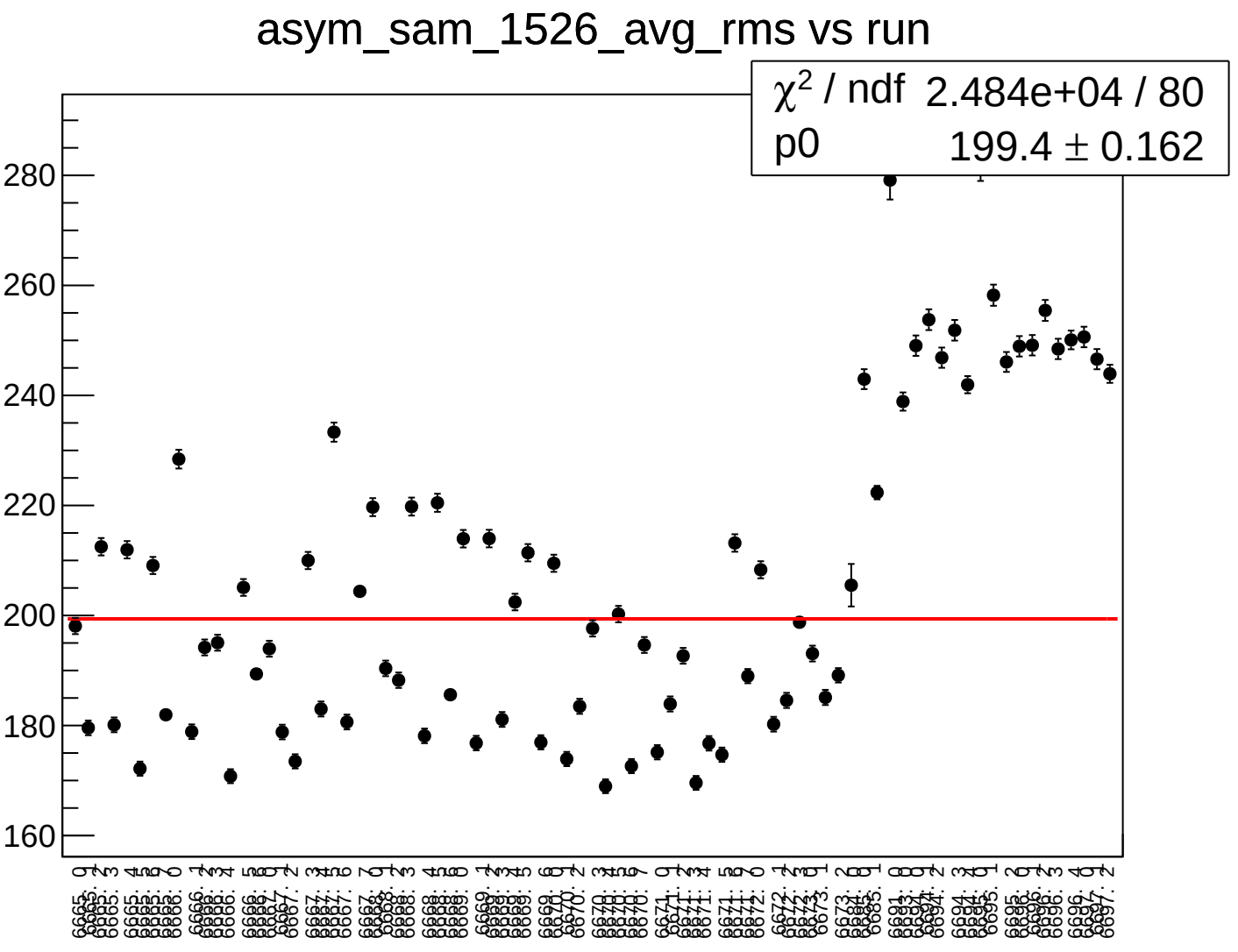

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 77.27 / 80
p0 −218.4 ± 222.3
pull
Entries 81
Mean 122.4
Std Dev 39.01

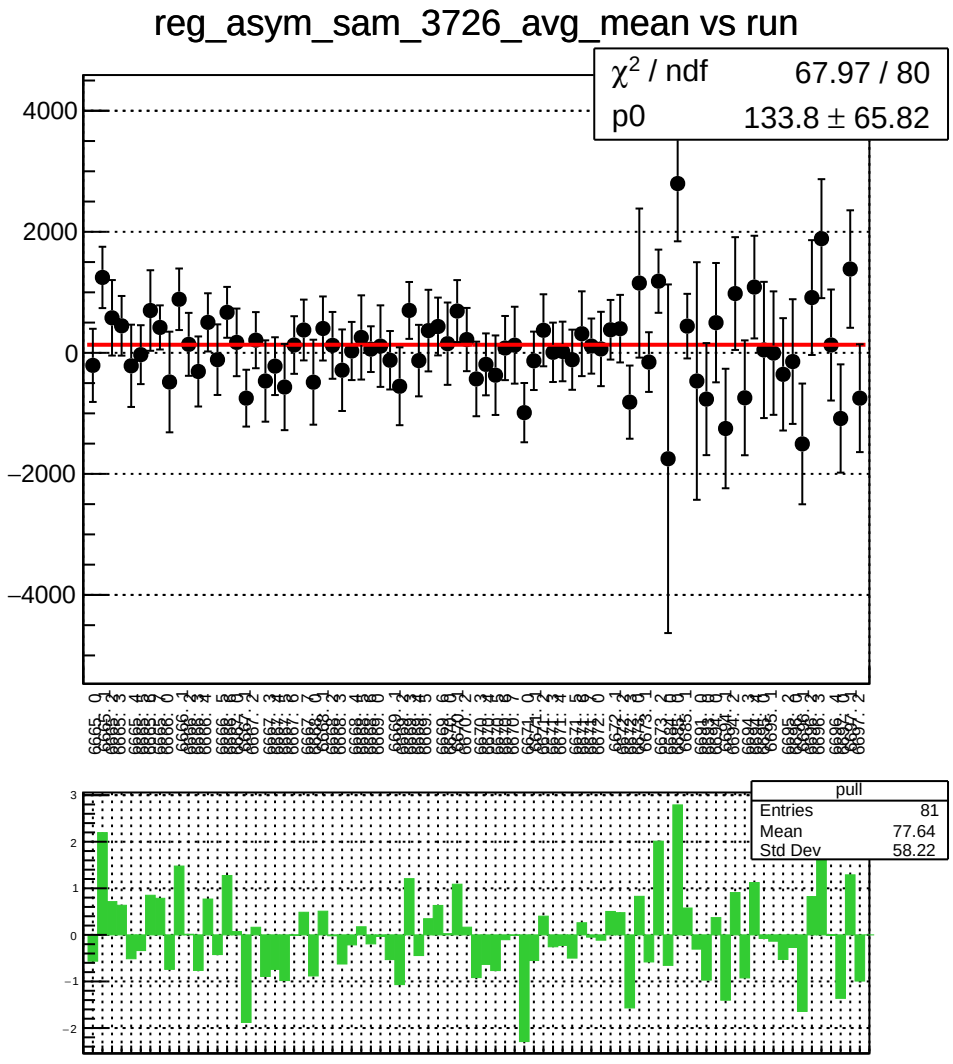

pull1D
Entries 81
Mean −0.0154
Std Dev 0.9766

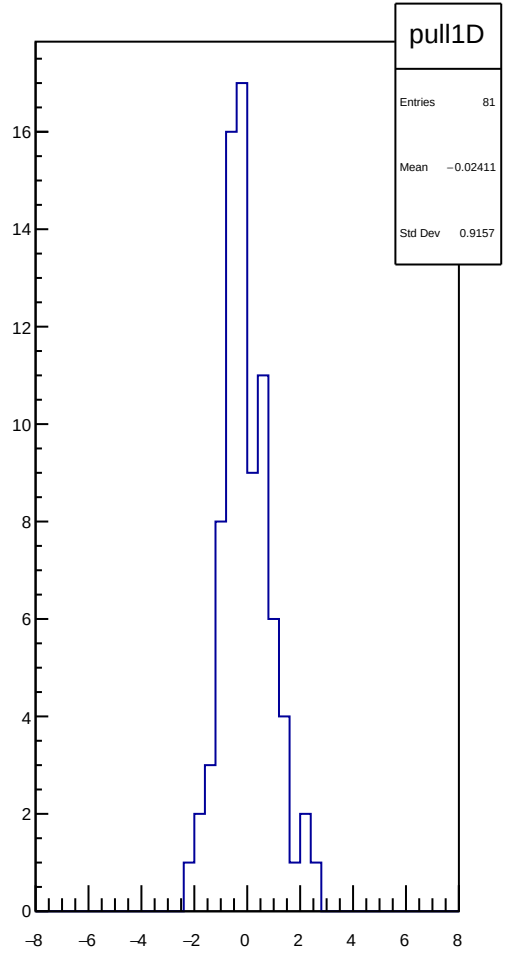

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 2.436e+04 / 80
p0 193.5 ± 0.1572
280
260
240
220
200
180
160

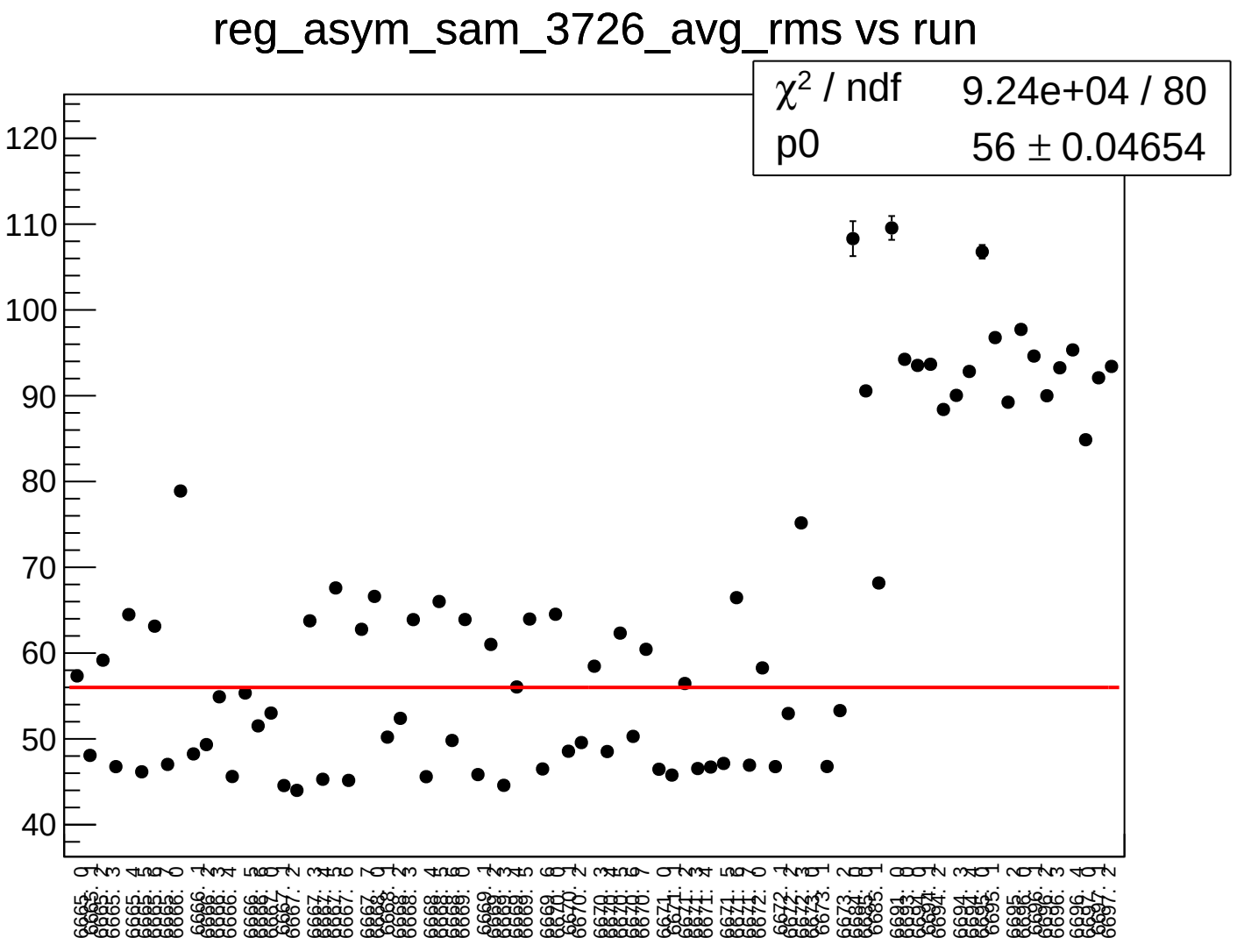

asym_sam_1526_avg_mean vs run
χ² / ndf 82.23 / 80
p0 236.4 ± 229.1
pull
Entries 81
Mean 118.2
Std Dev 31.86

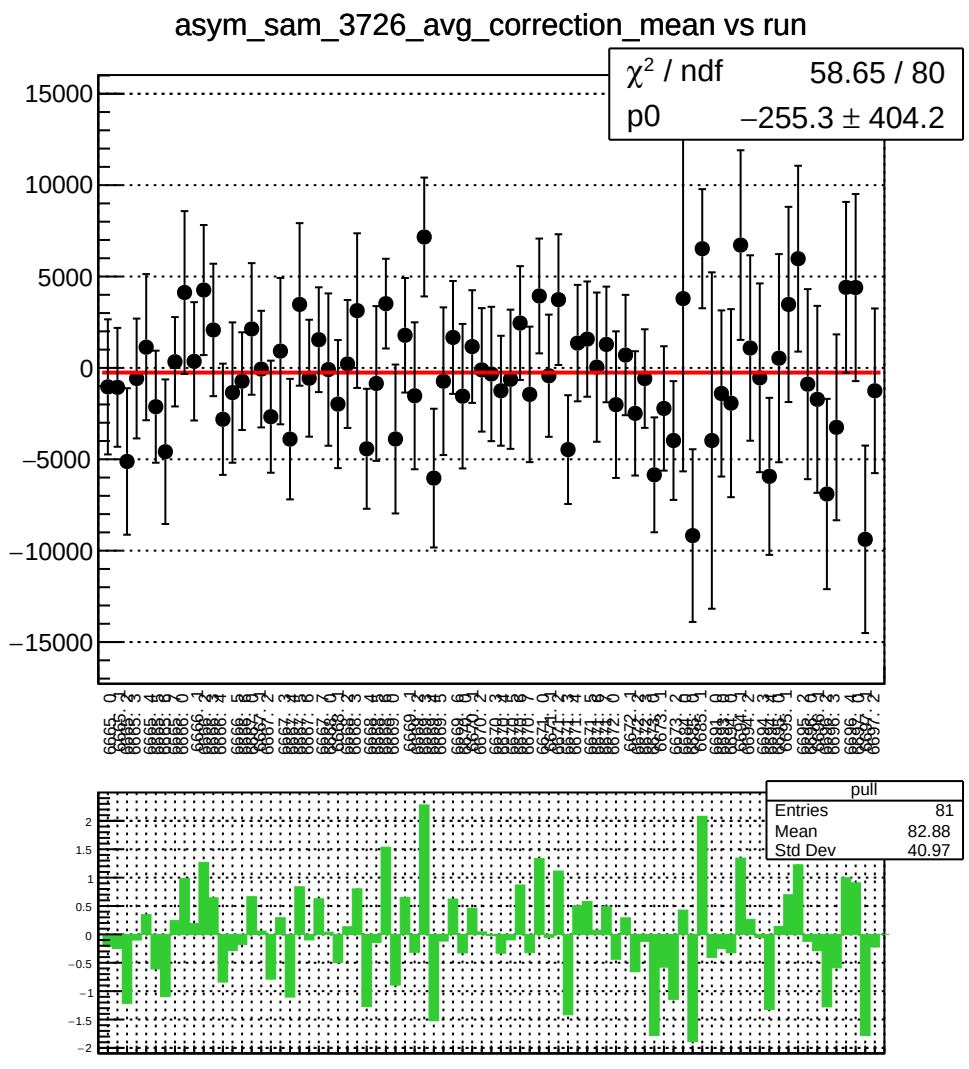

pull1D
Entries 81
Mean 0.01271
Std Dev 1.007

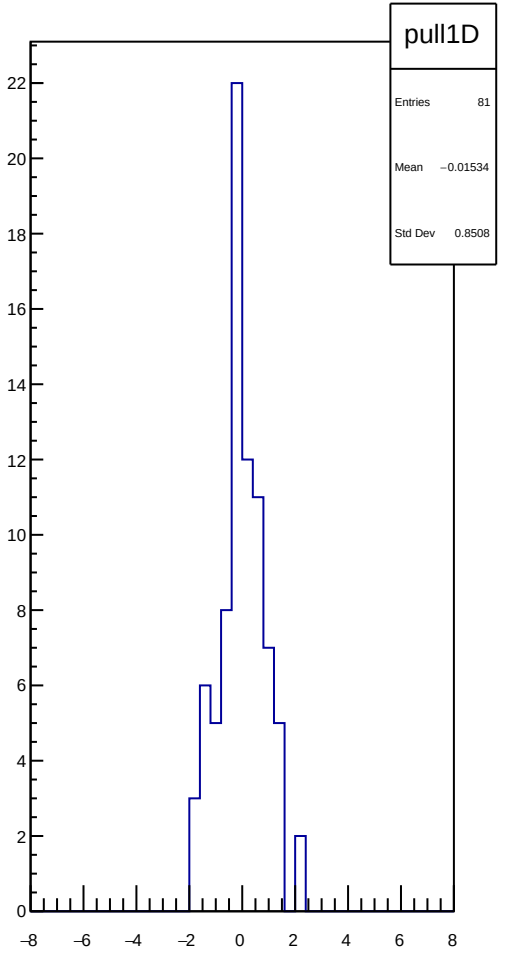

asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.484e+04 / 80
p0 199.4 ± 0.162
280
260
240
220
200
180
160

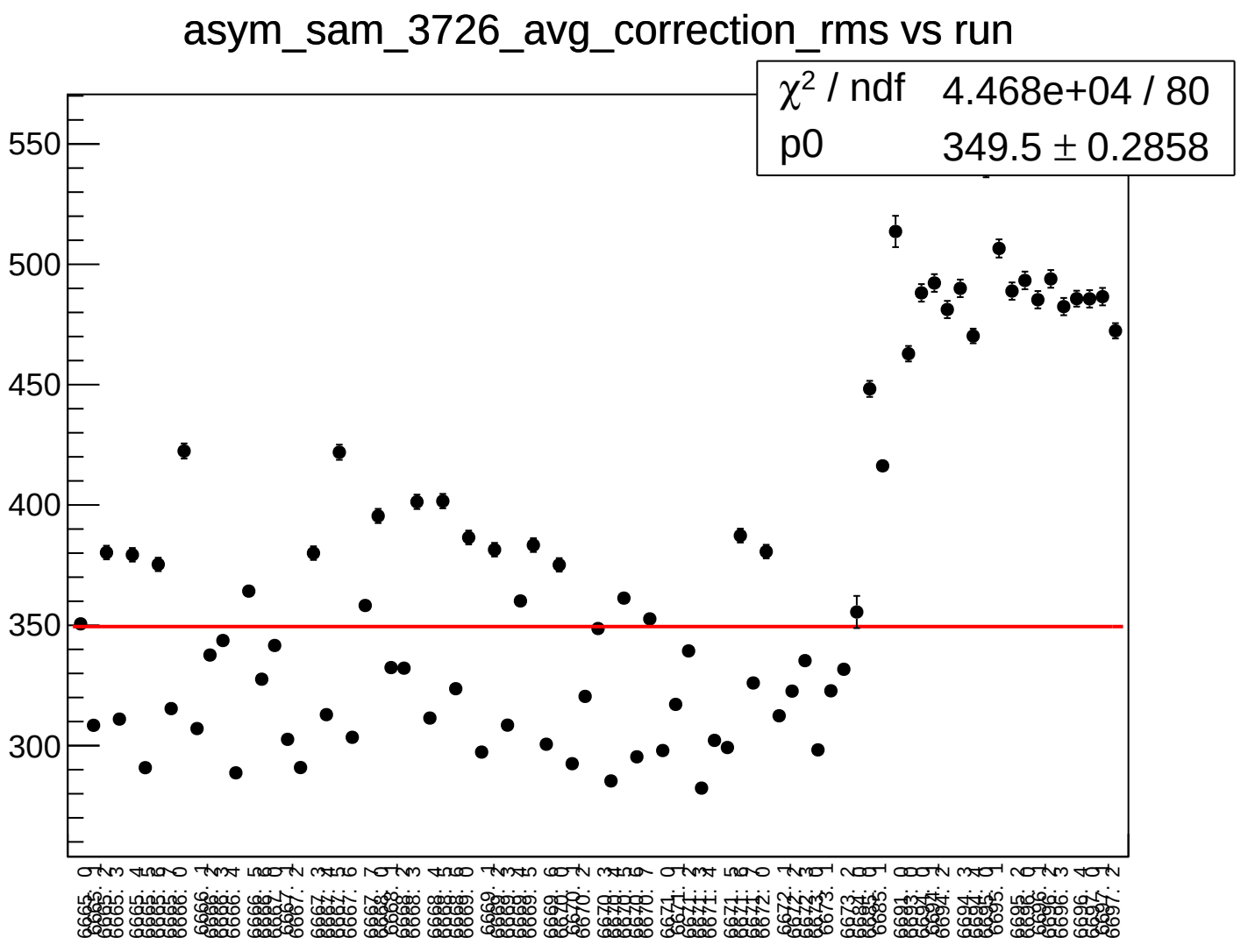

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 67.97 / 80
p0 133.8 ± 65.82
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 77.64
Std Dev 58.22
3
2
1
0
−1
−2

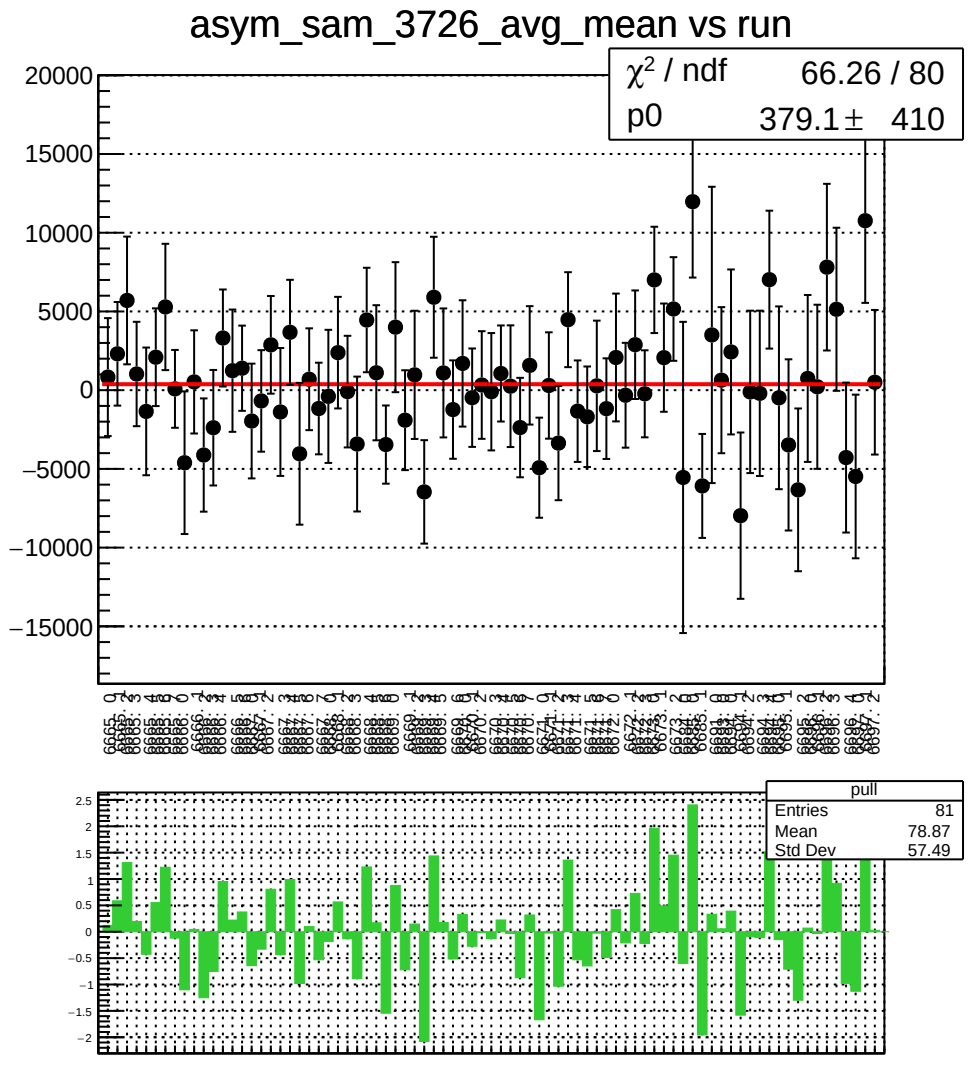

pull1D
Entries 81
Mean −0.02411
Std Dev 0.9157
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

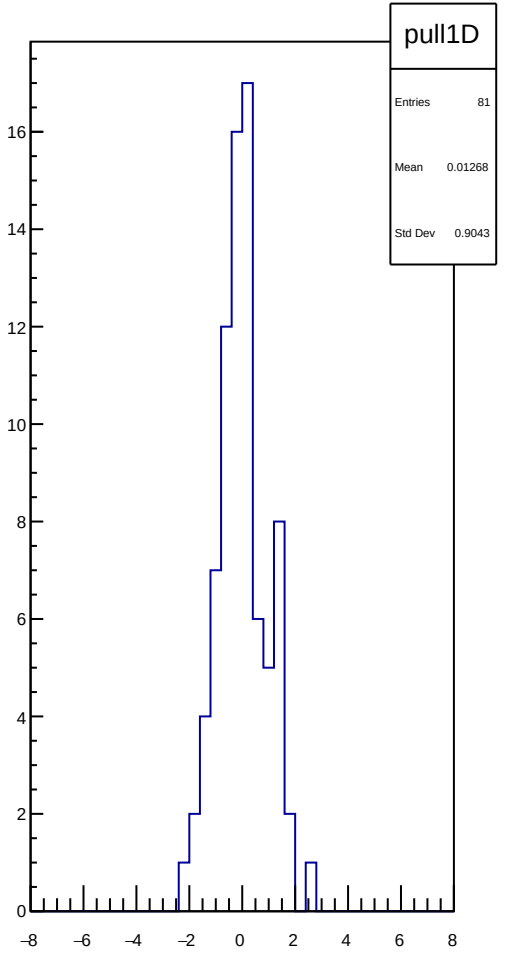

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 9.24e+04 / 80
p0 56 ± 0.04654
120
110
100
90
80
70
60
50
40

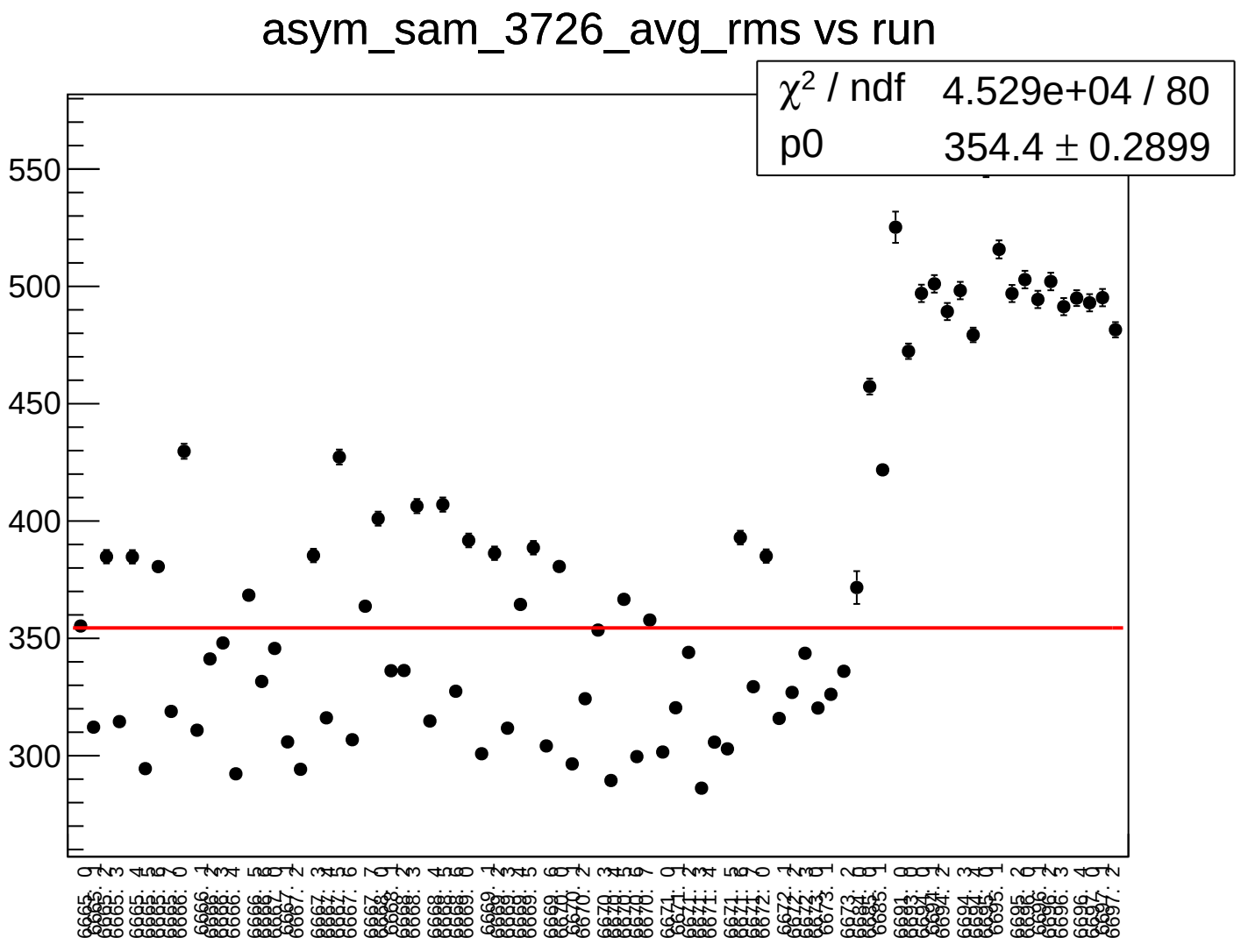

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 58.65 / 80
p0 −255.3 ± 404.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 82.88
Std Dev 40.97
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

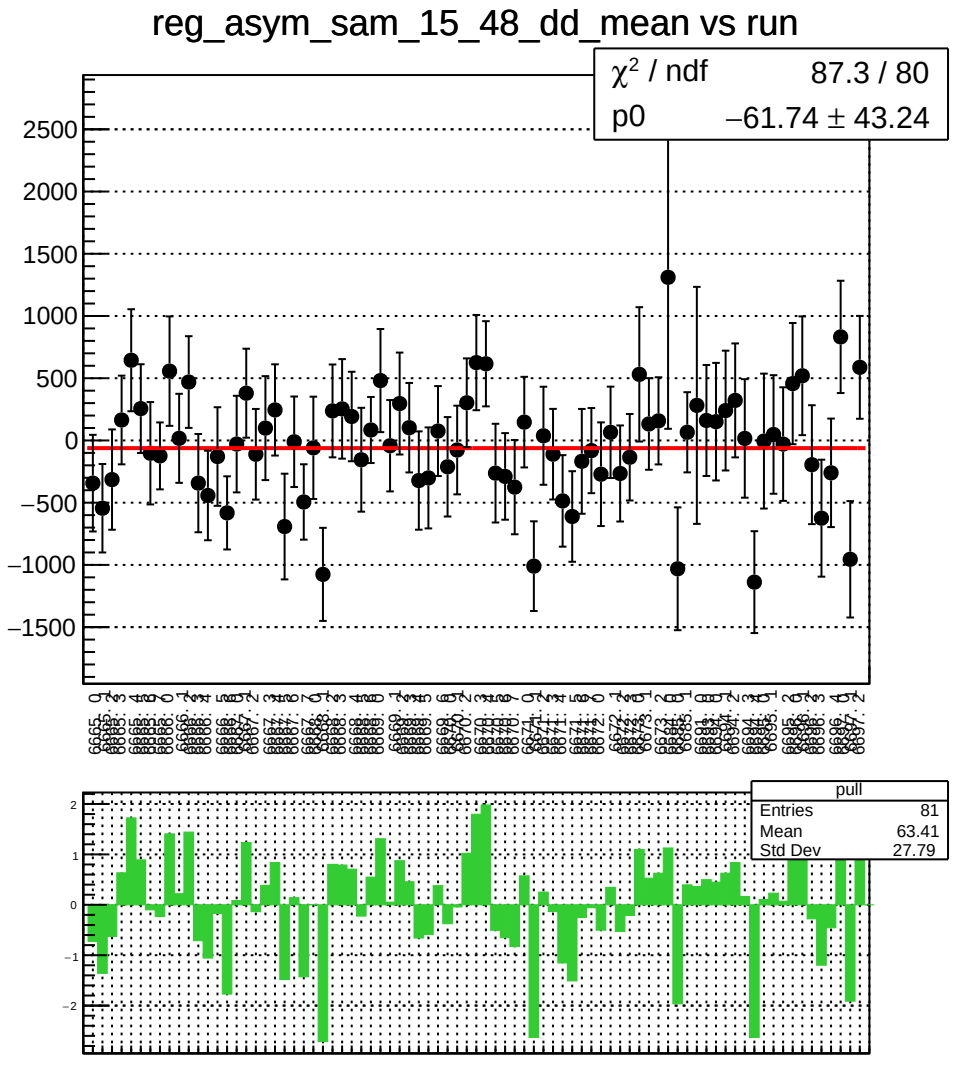

pull1D
Entries 81
Mean −0.01534
Std Dev 0.8508
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

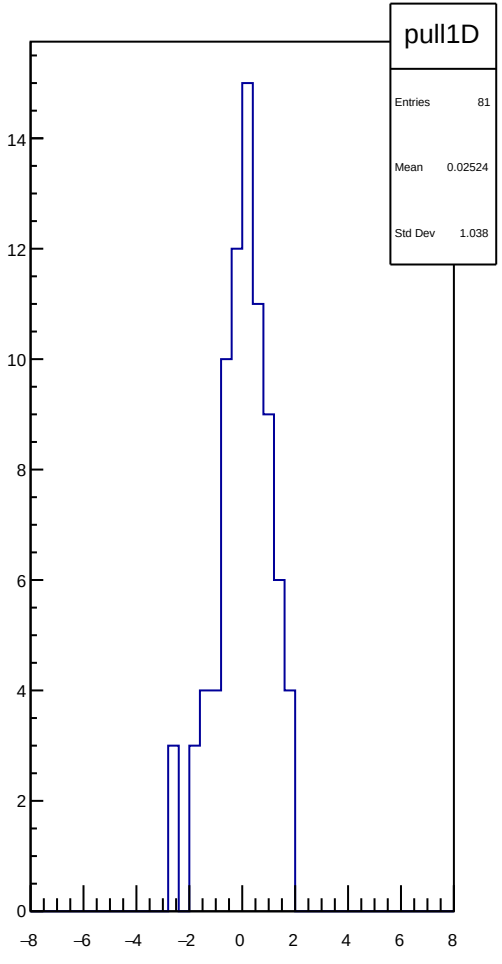

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 4.468e+04 / 80
p0 349.5 ± 0.2858
550
500
450
400
350
300

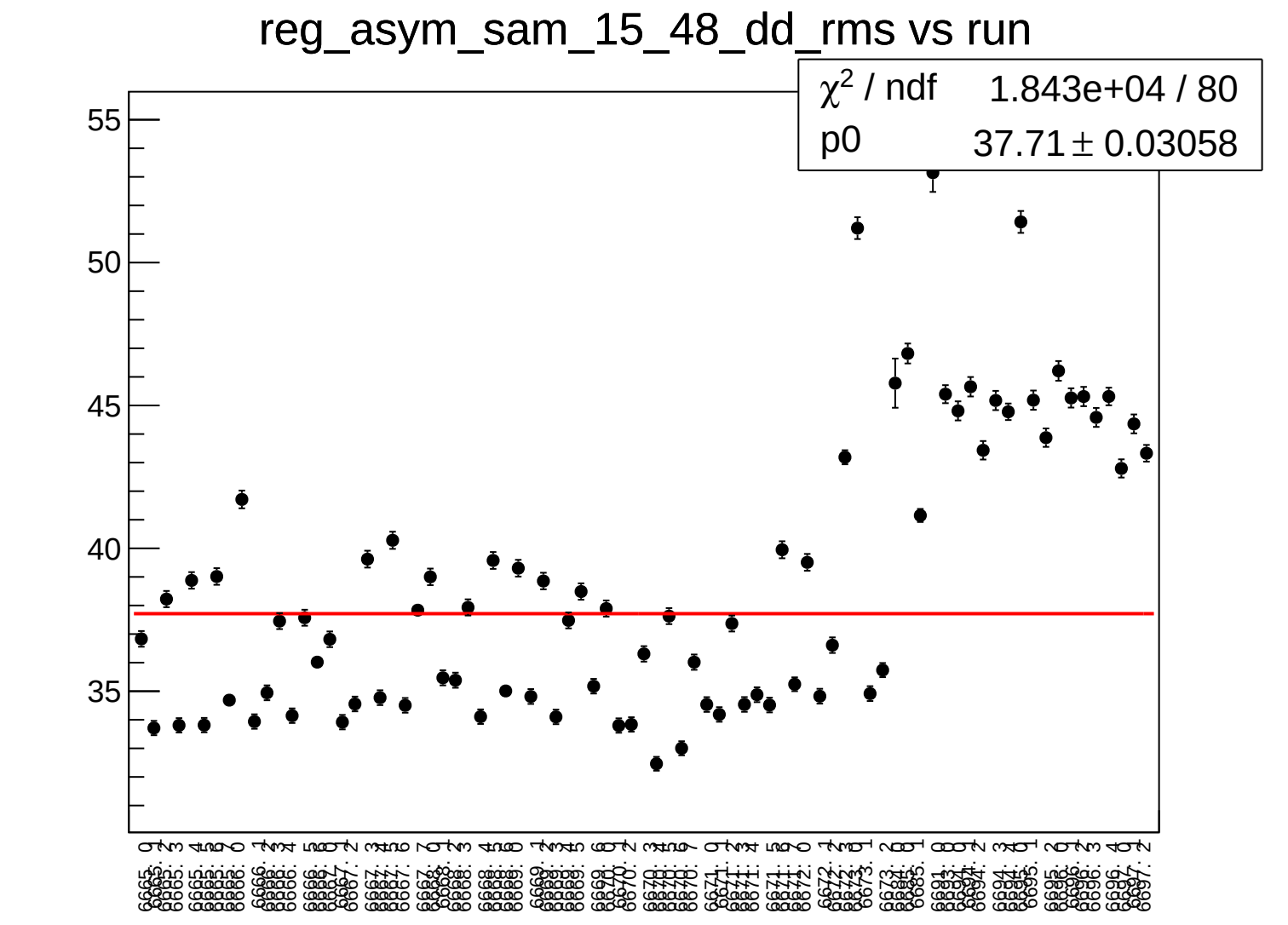

asym_sam_3726_avg_mean vs run
χ² / ndf 66.26 / 80
p0 379.1 ± 410
pull
Entries 81
Mean 78.87
Std Dev 57.49

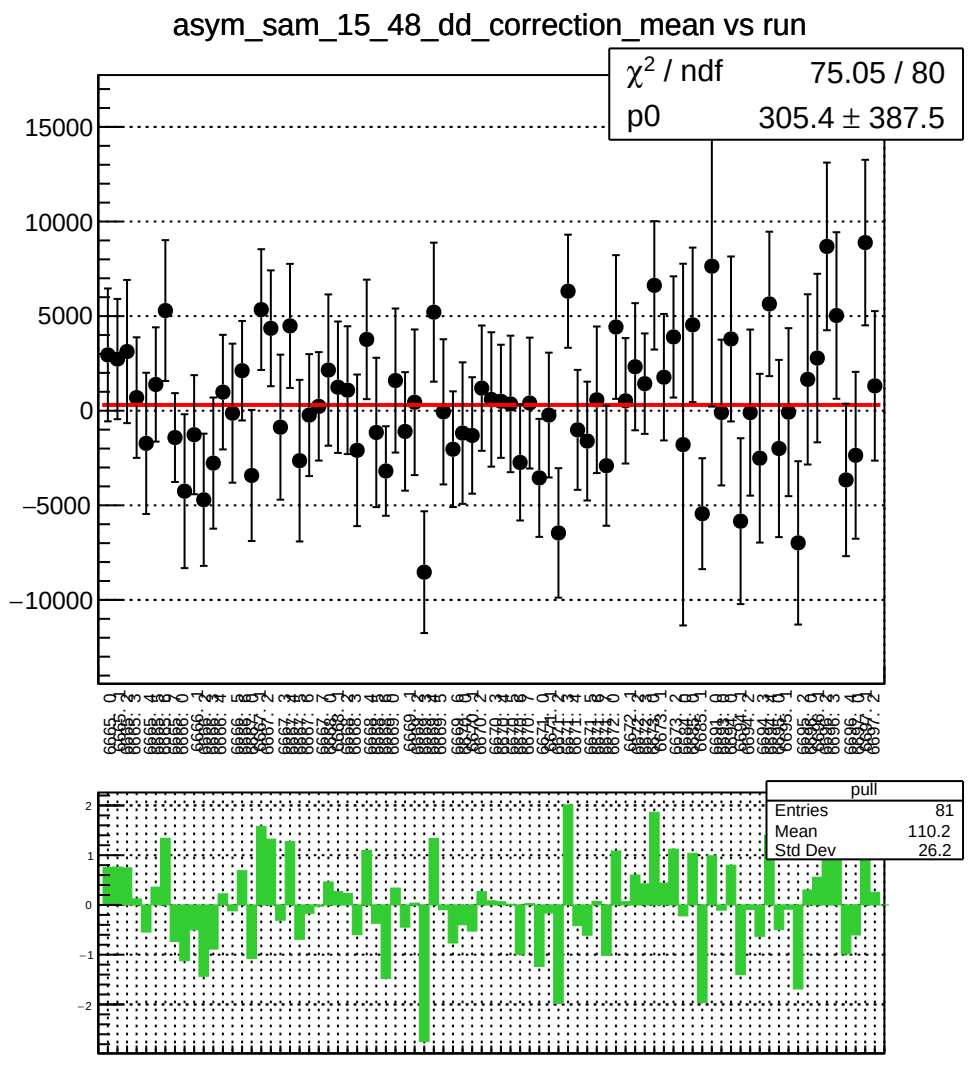

pull1D
Entries 81
Mean 0.01268
Std Dev 0.9043

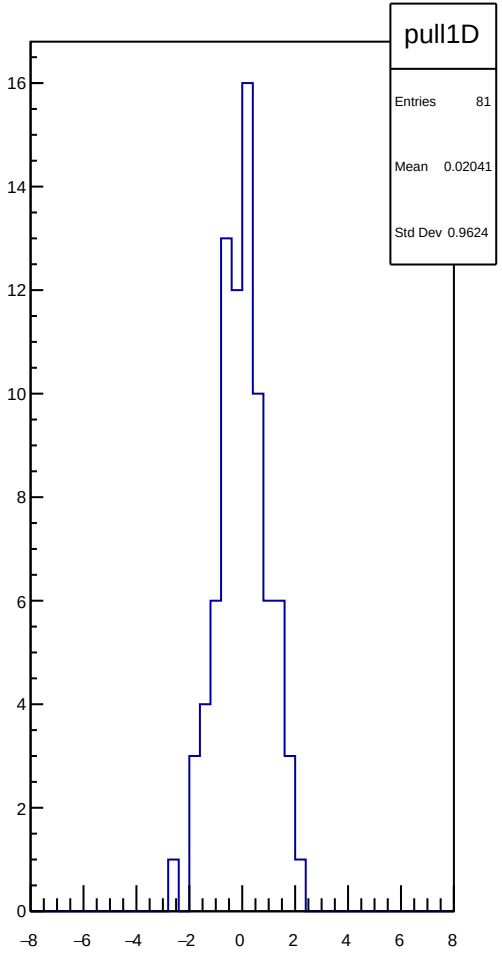

asym_sam_3726_avg_rms vs run
χ² / ndf 4.529e+04 / 80
p0 354.4 ± 0.2899
550
500
450
400
350
300

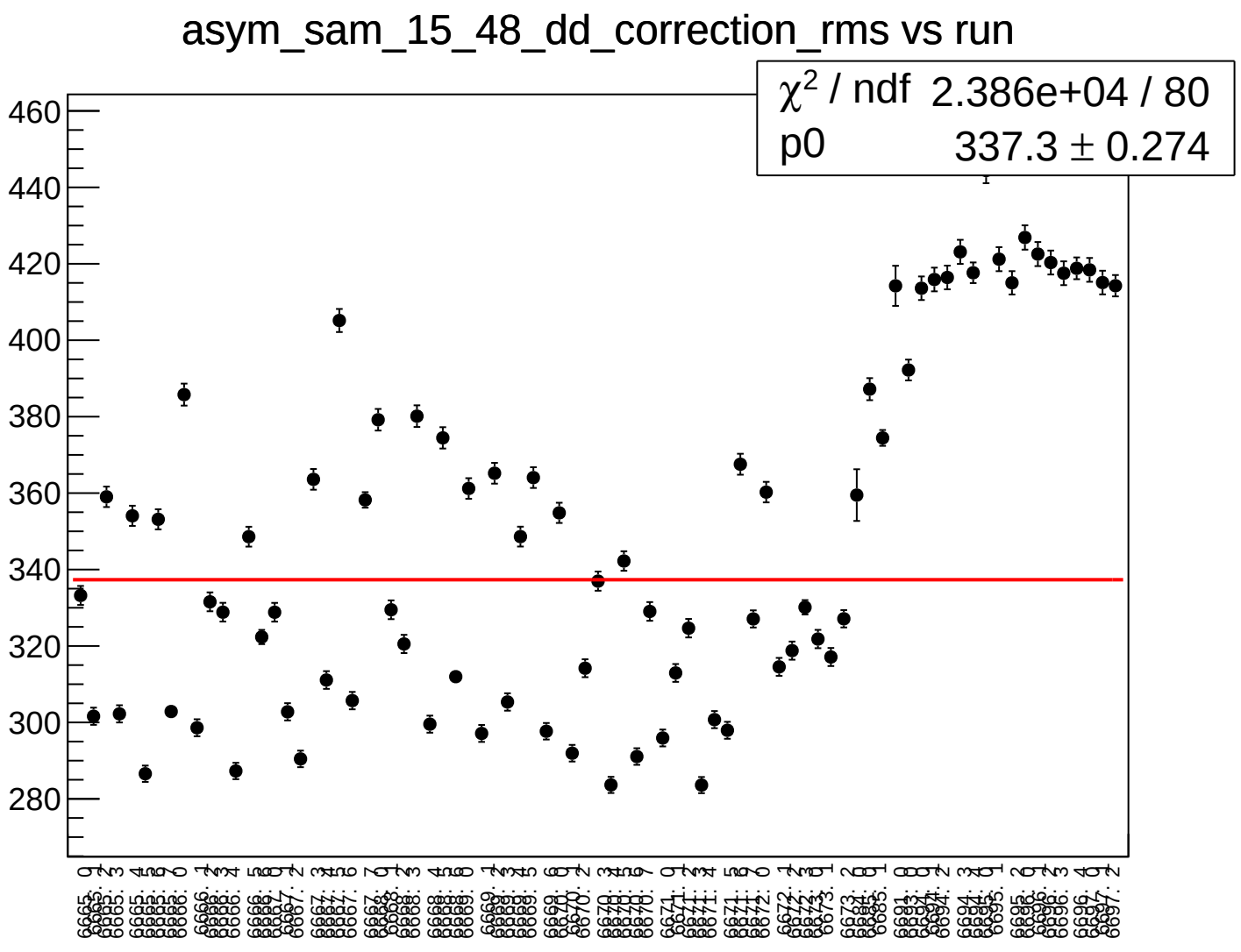

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 87.3 / 80
p0 −61.74 ± 43.24
pull
Entries 81
Mean 63.41
Std Dev 27.79

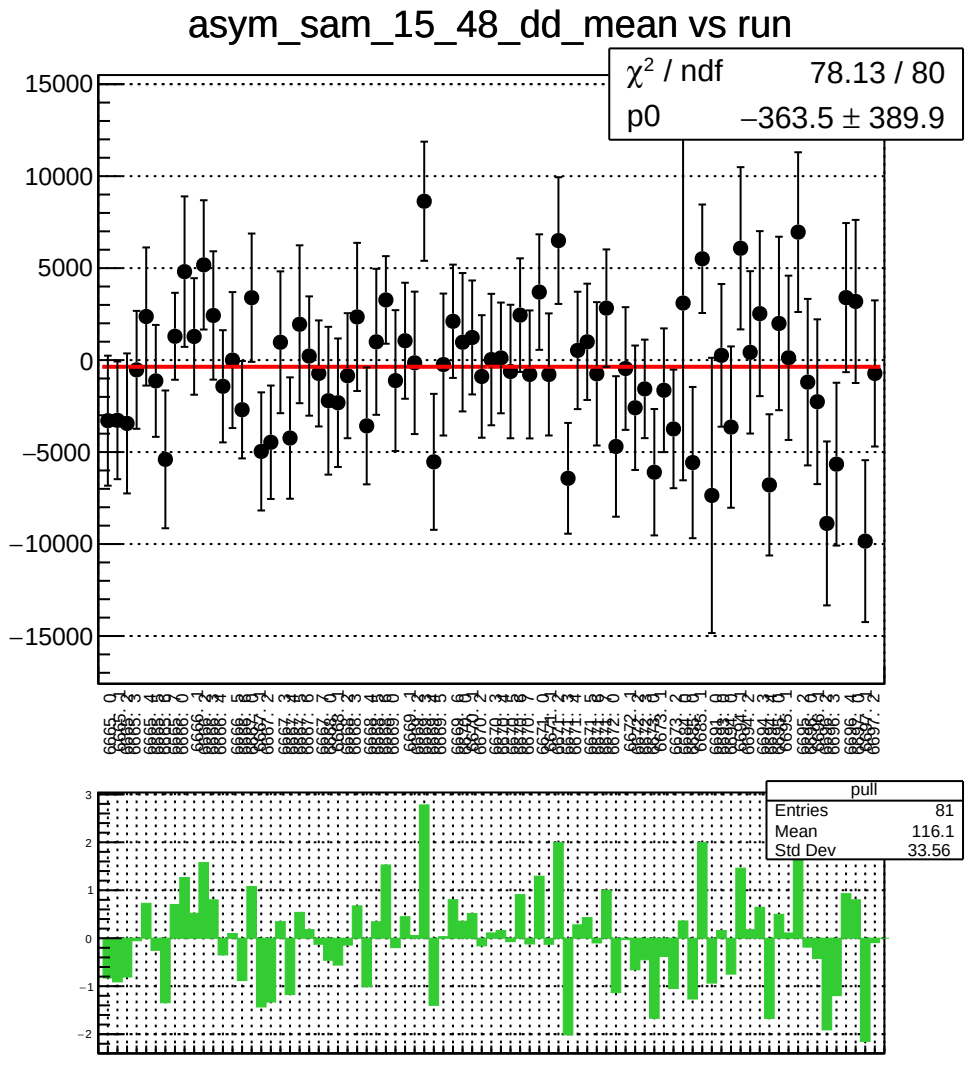

pull1D
Entries 81
Mean 0.02524
Std Dev 1.038

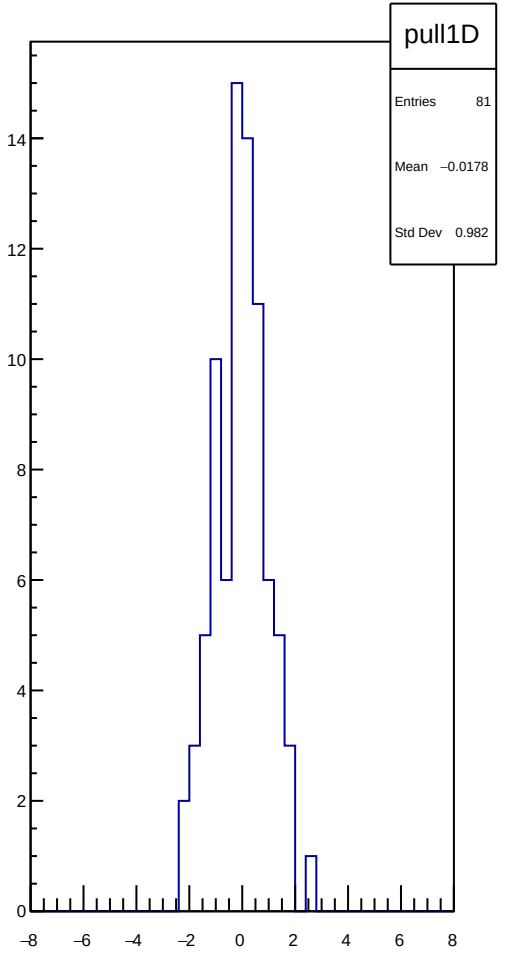

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.843e+04 / 80
p0 37.71 ± 0.03058
55
50
45
40
35

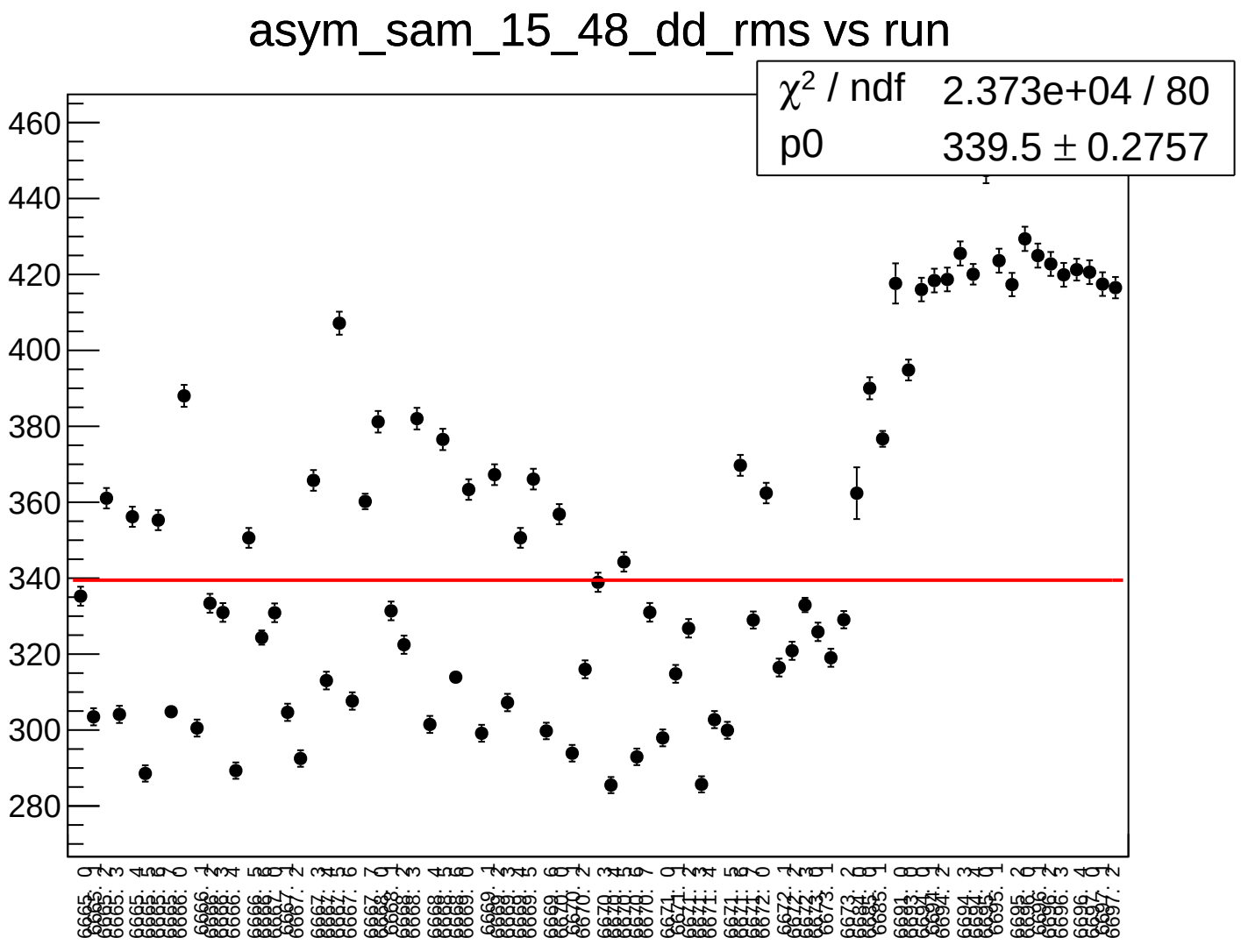

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 75.05 / 80
p0 305.4 ± 387.5
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 110.2
Std Dev 26.2
2
1
0
−1
−2

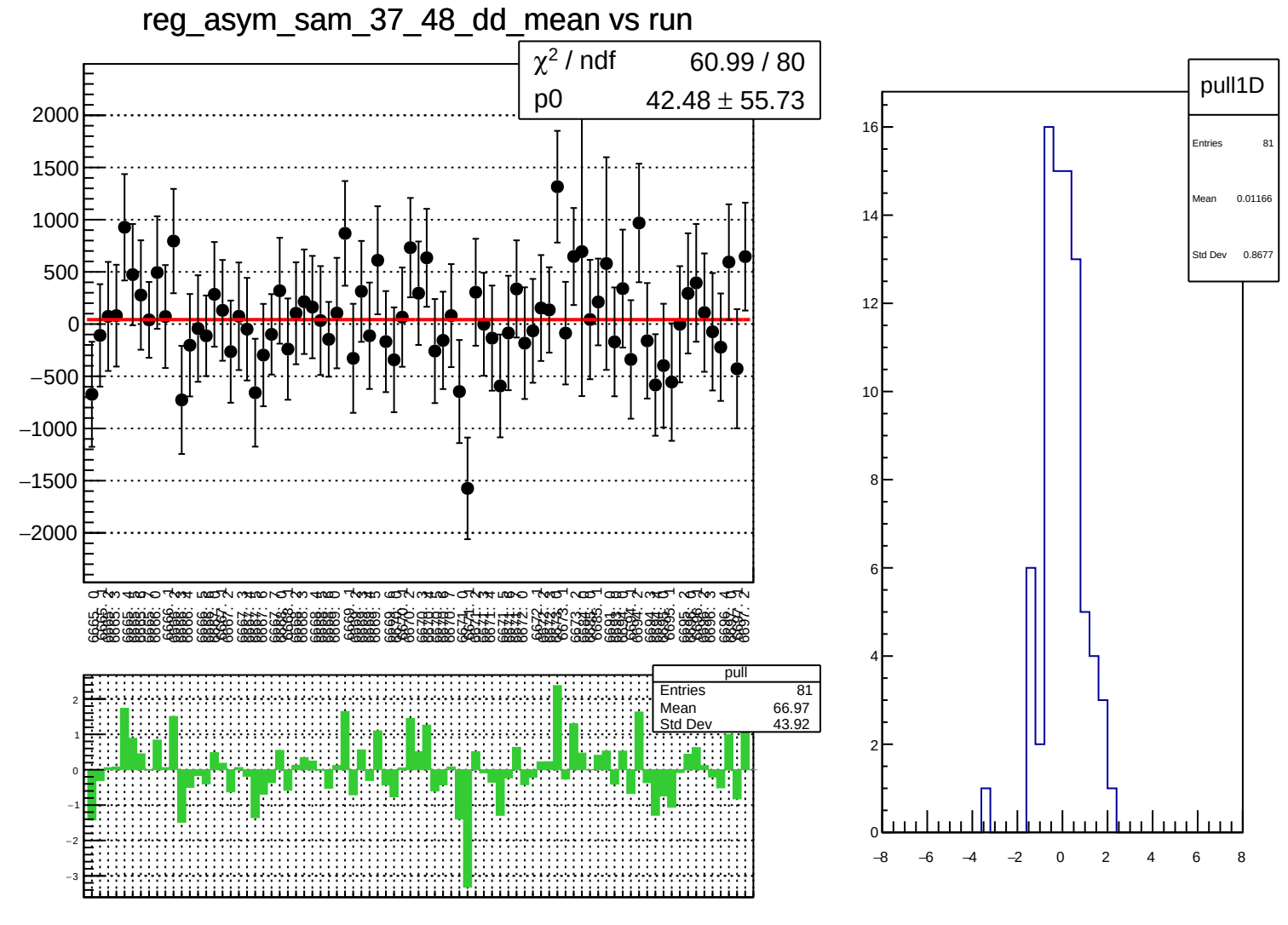

pull1D
Entries 81
Mean 0.02041
Std Dev 0.9624
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

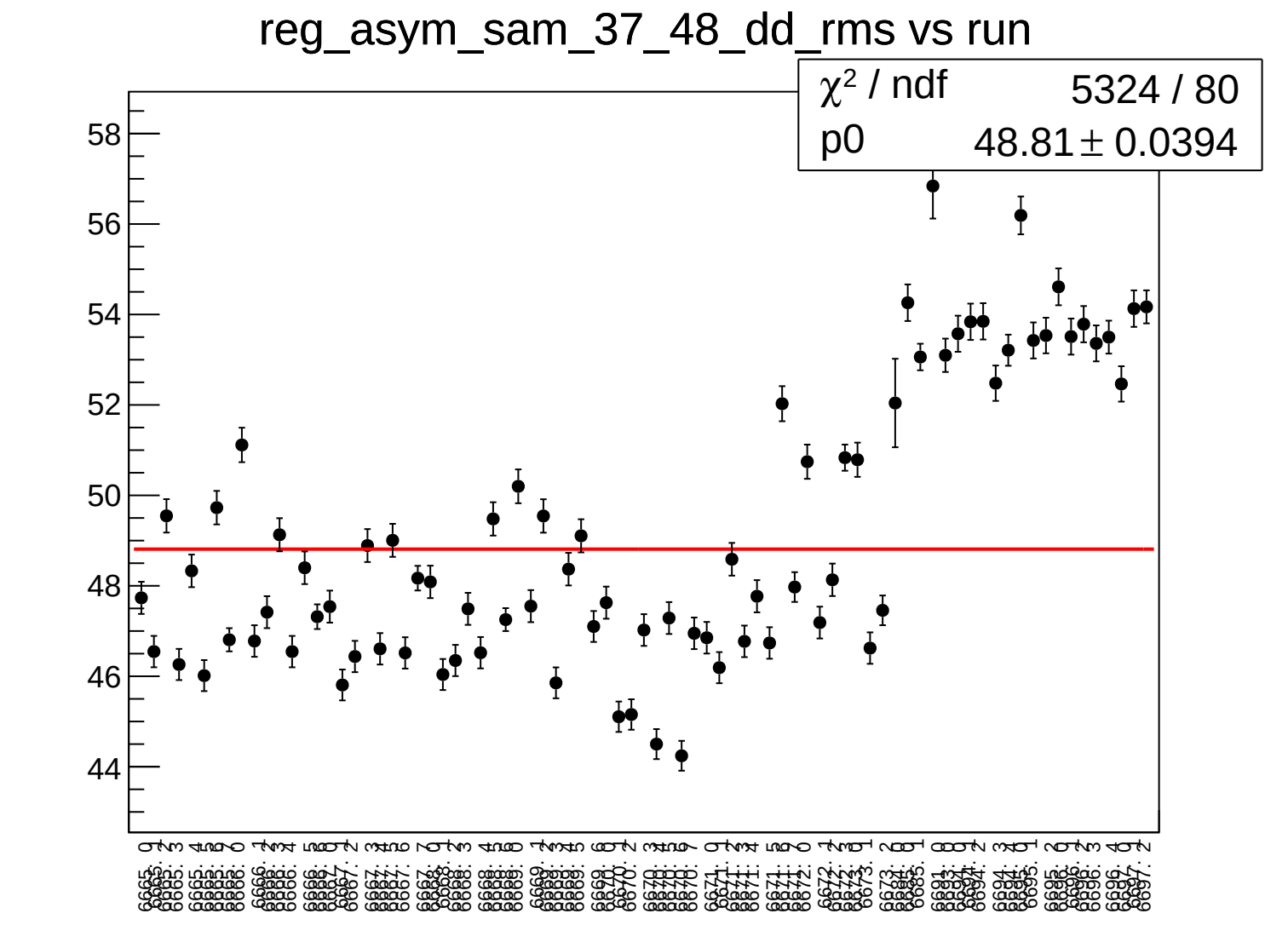

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 2.386e+04 / 80
p0 337.3 ± 0.274
460
440
420
400
380
360
340
320
300
280

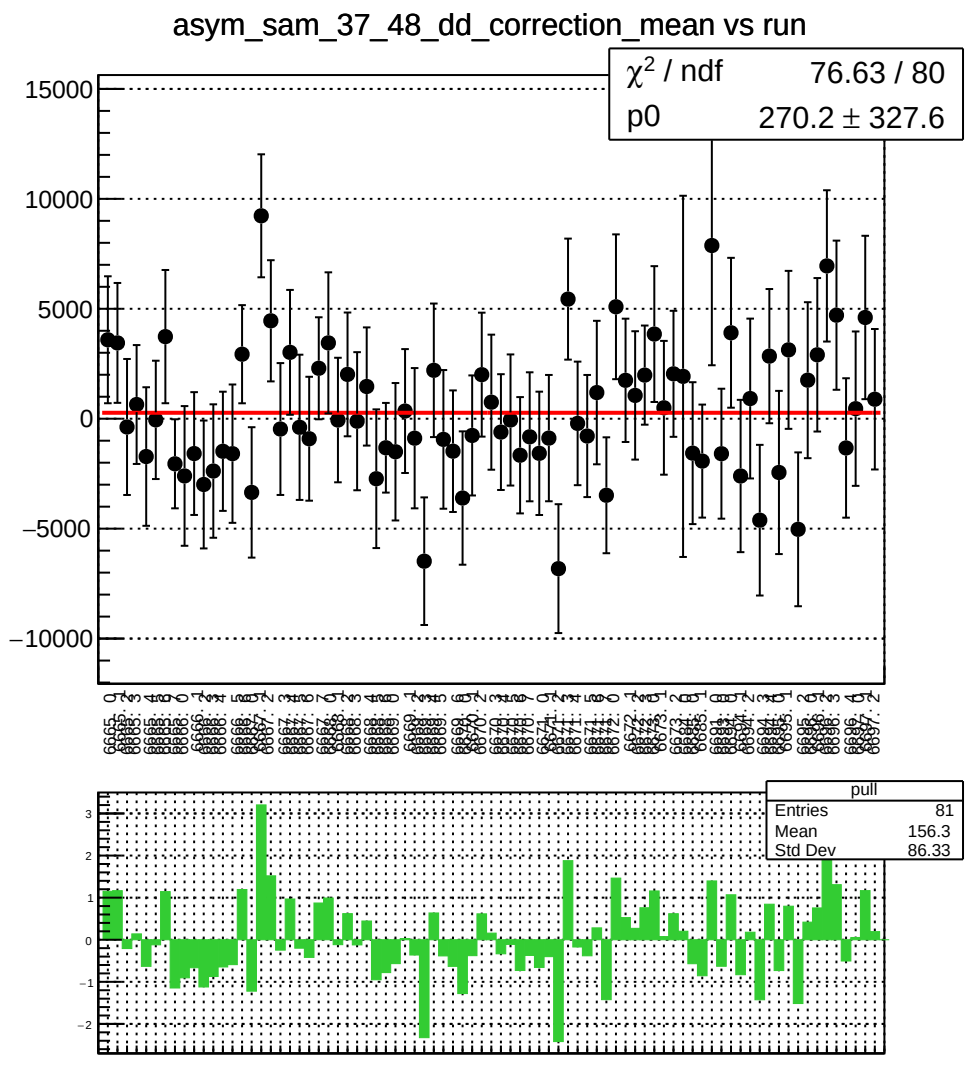

asym_sam_15_48_dd_mean vs run
χ² / ndf 78.13 / 80
p0 −363.5 ± 389.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 116.1
Std Dev 33.56
3
2
1
0
−1
−2

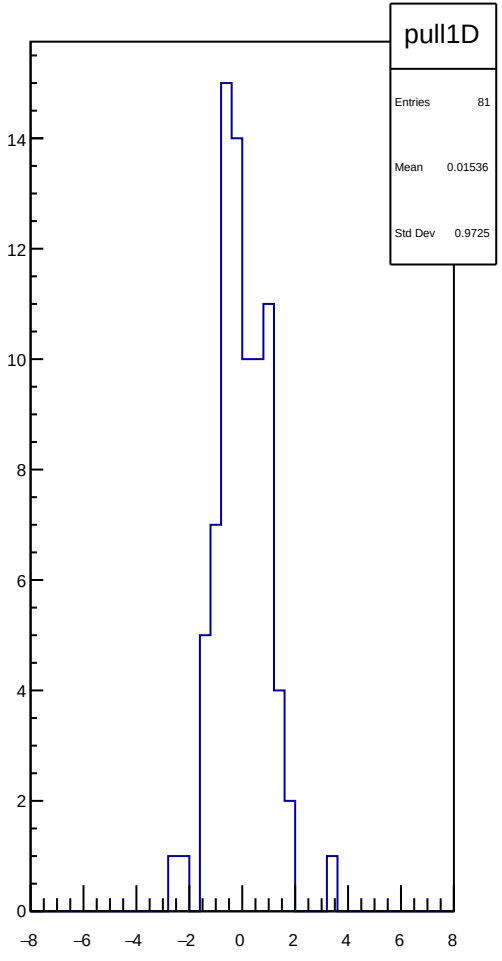

pull1D
Entries 81
Mean −0.0178
Std Dev 0.982
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

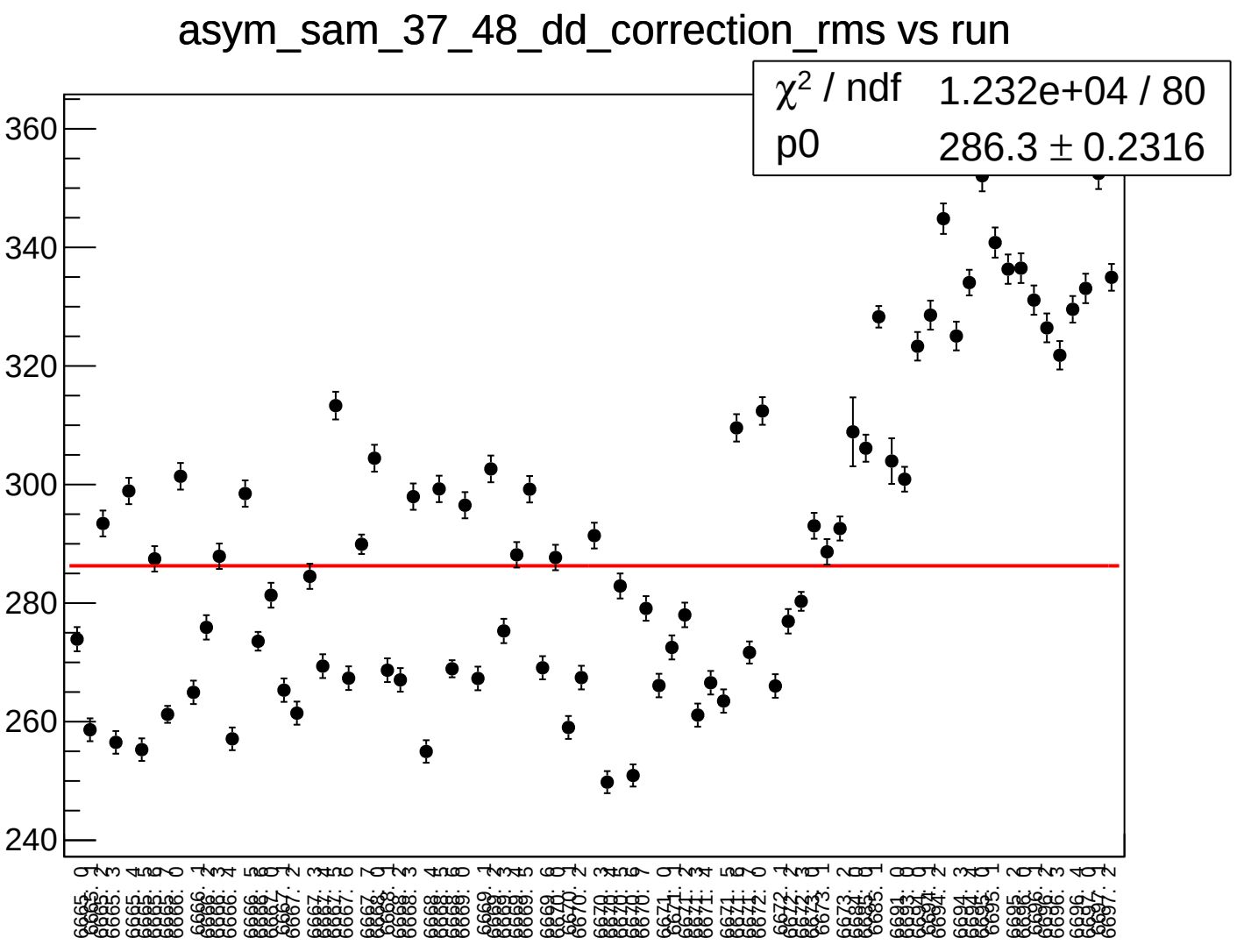

asym_sam_15_48_dd_rms vs run
χ² / ndf 2.373e+04 / 80
p0 339.5 ± 0.2757
460
440
420
400
380
360
340
320
300
280

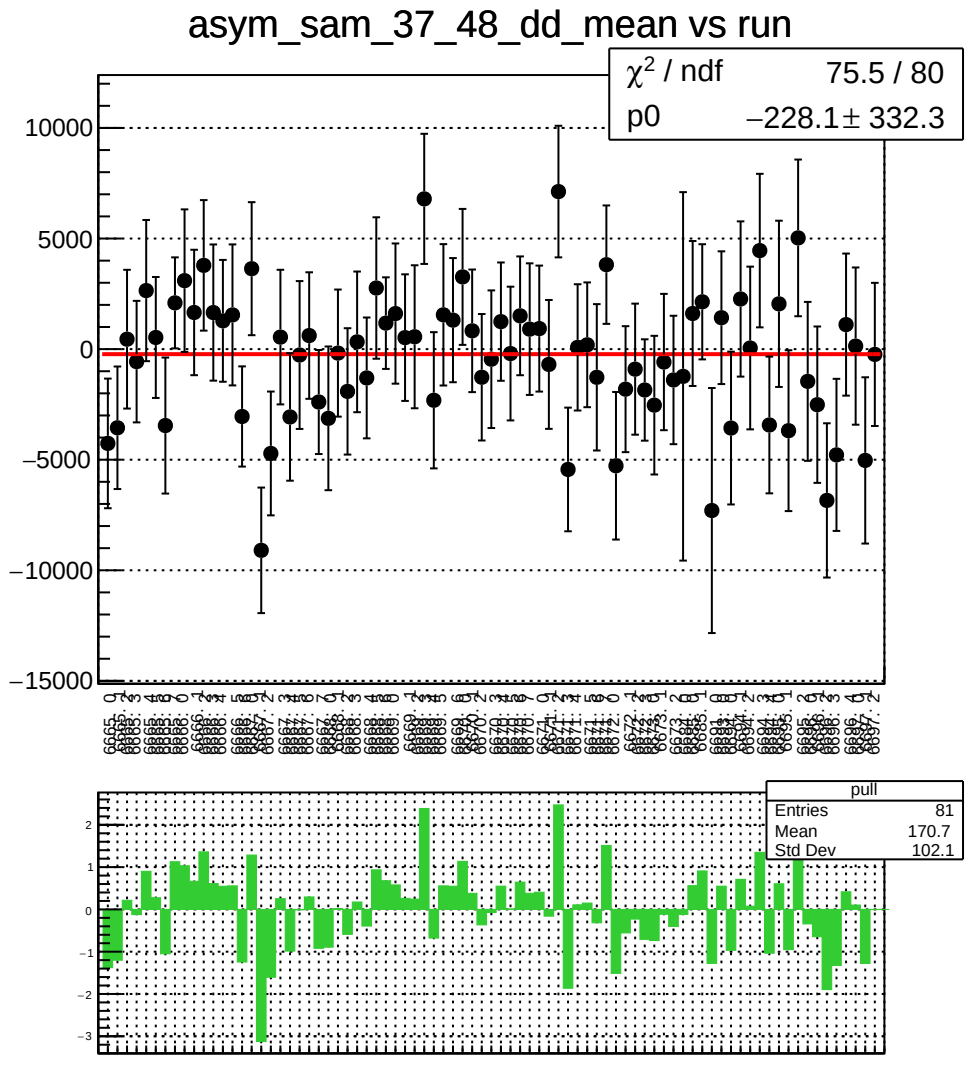

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 60.99 / 80
p0 42.48 ± 55.73
pull
Entries 81
Mean 66.97
Std Dev 43.92
pull1D
Entries 81
Mean 0.01166
Std Dev 0.8677

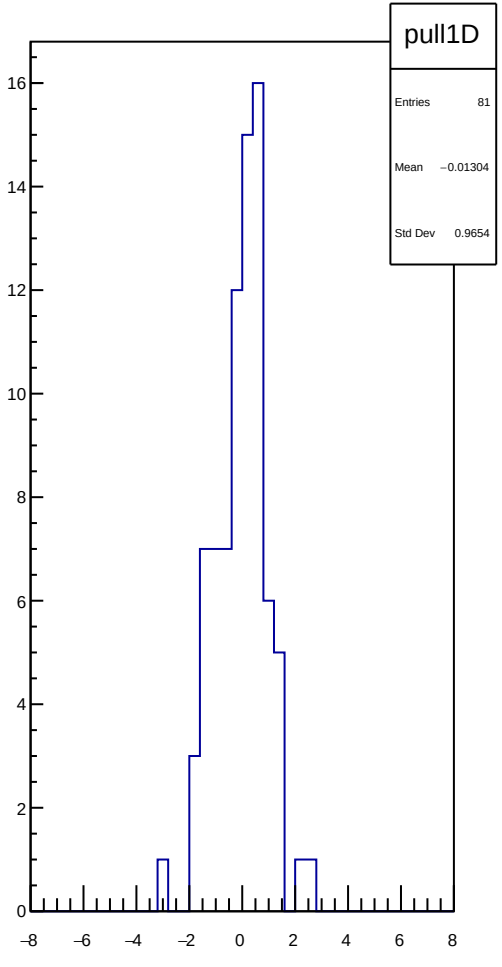

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 5324 / 80
p0 48.81 ± 0.0394
58
56
54
52
50
48
46
44

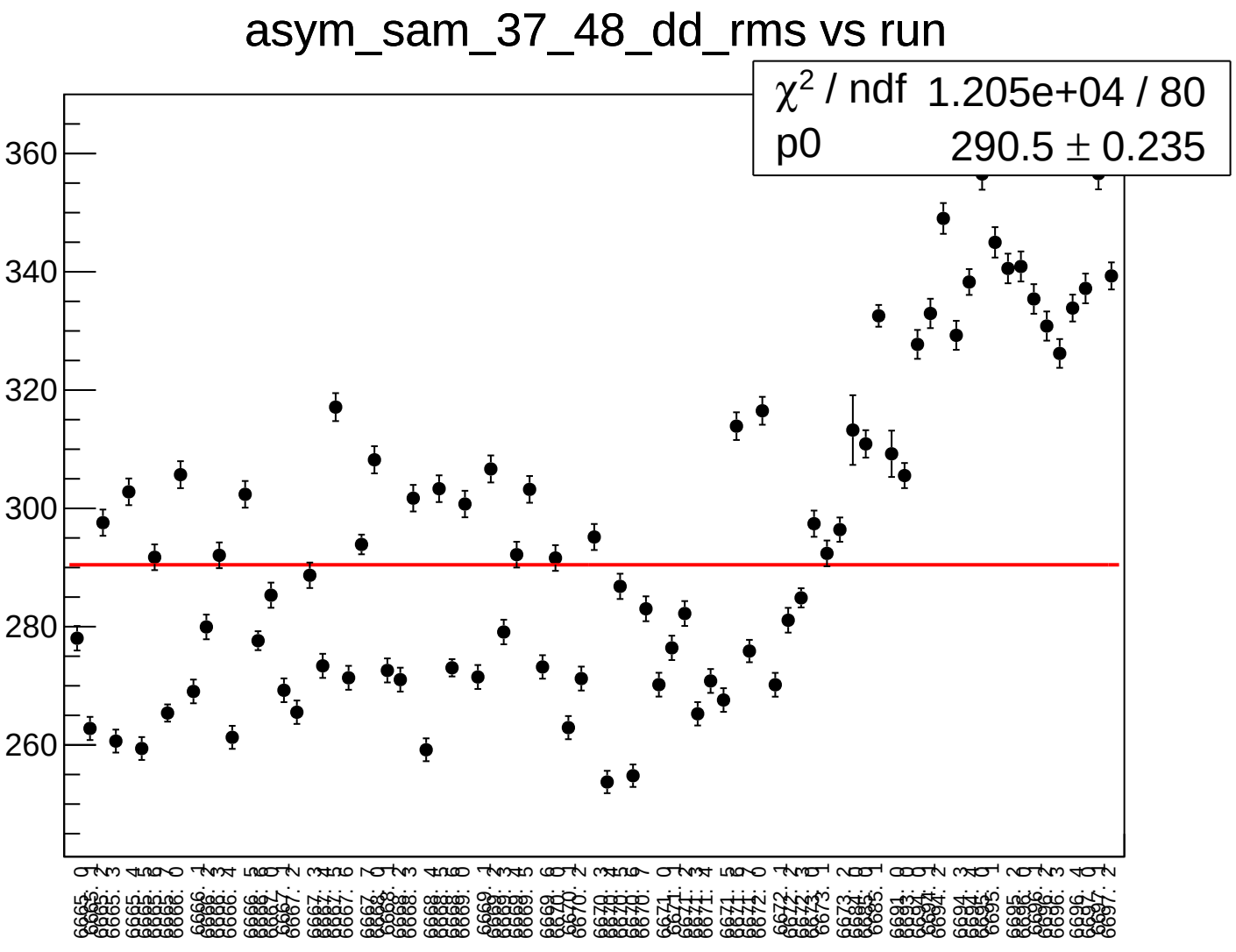

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 76.63 / 80
p0 270.2 ± 327.6
15000
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 156.3
Std Dev 86.33
3
2
1
0
−1
−2

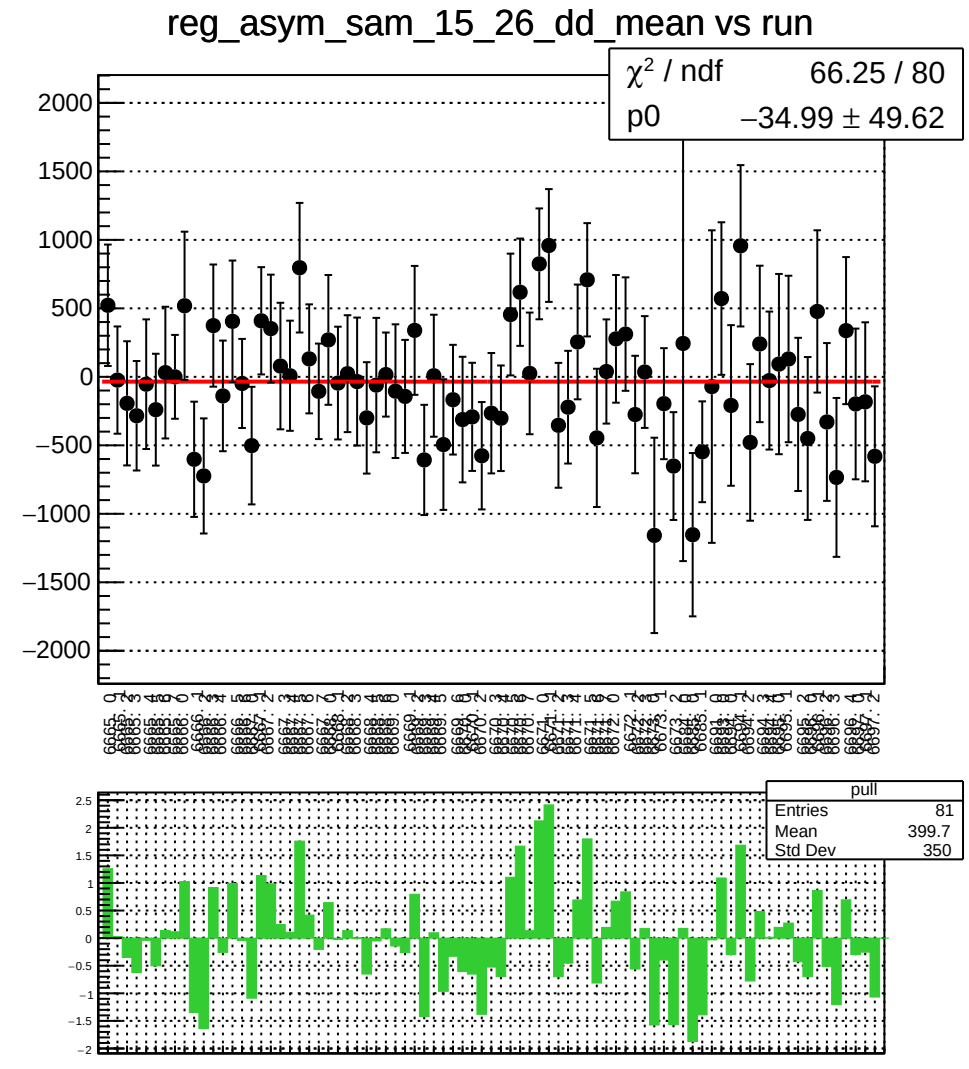

pull1D
Entries 81
Mean 0.01536
Std Dev 0.9725
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

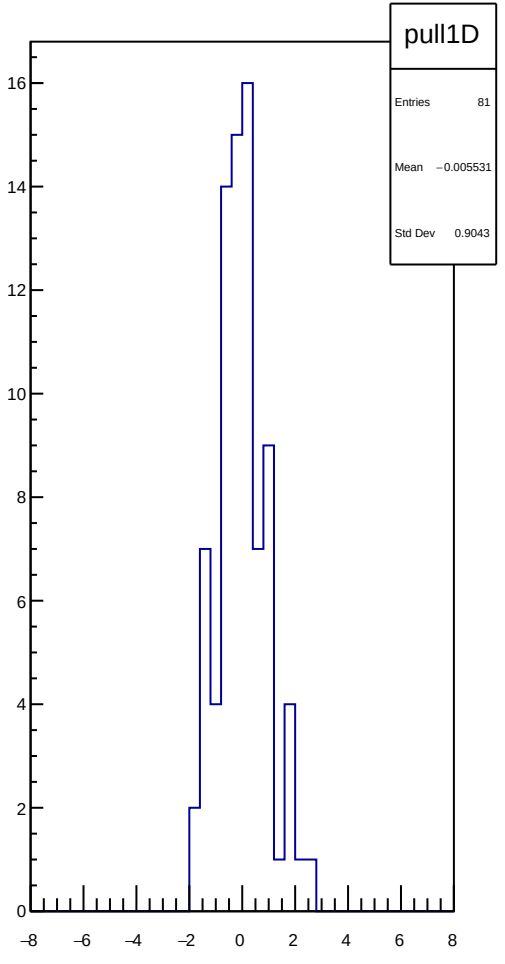

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 1.232e+04 / 80
p0 286.3 ± 0.2316
360
340
320
300
280
260
240

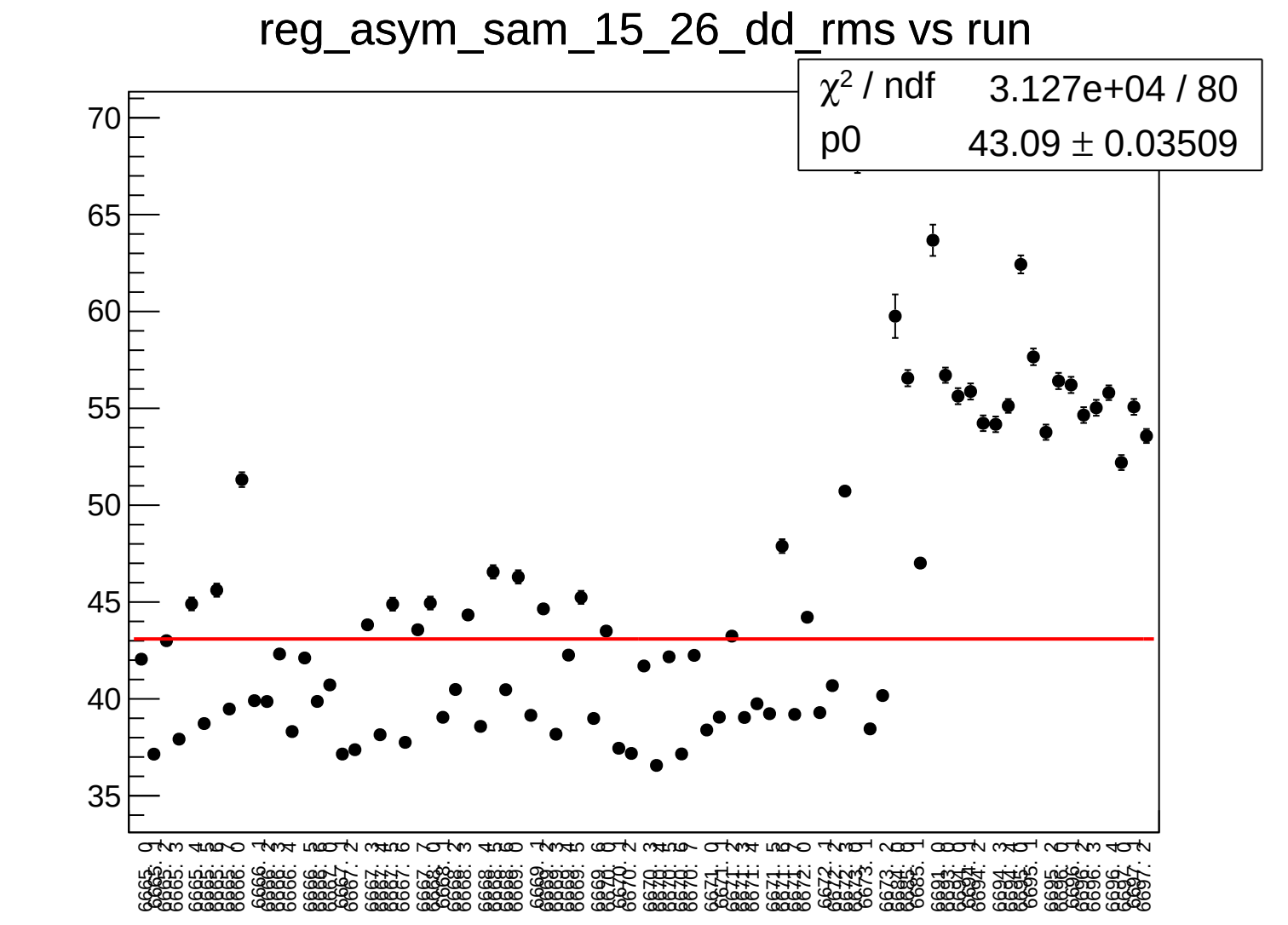

asym_sam_37_48_dd_mean vs run
χ² / ndf 75.5 / 80
p0 −228.1± 332.3
pull
Entries 81
Mean 170.7
Std Dev 102.1

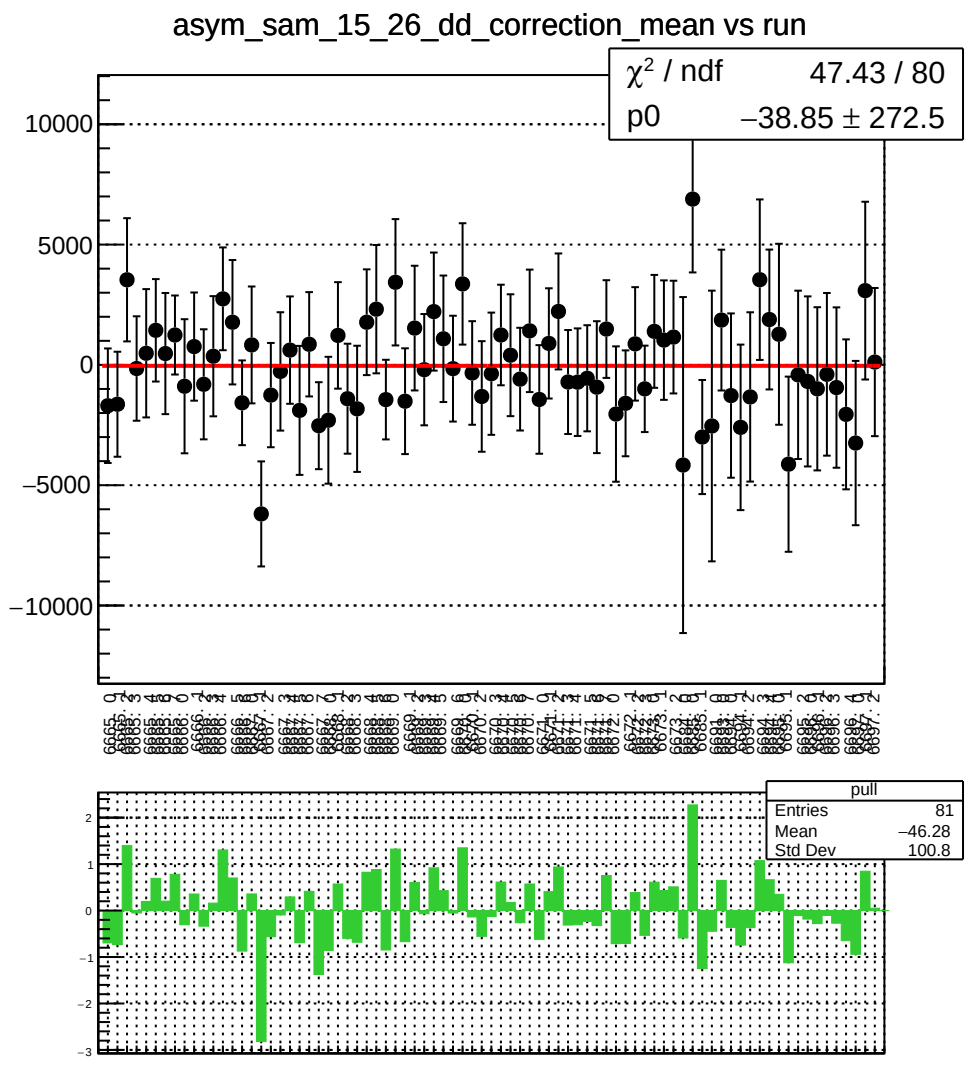

pull1D
Entries 81
Mean −0.01304
Std Dev 0.9654

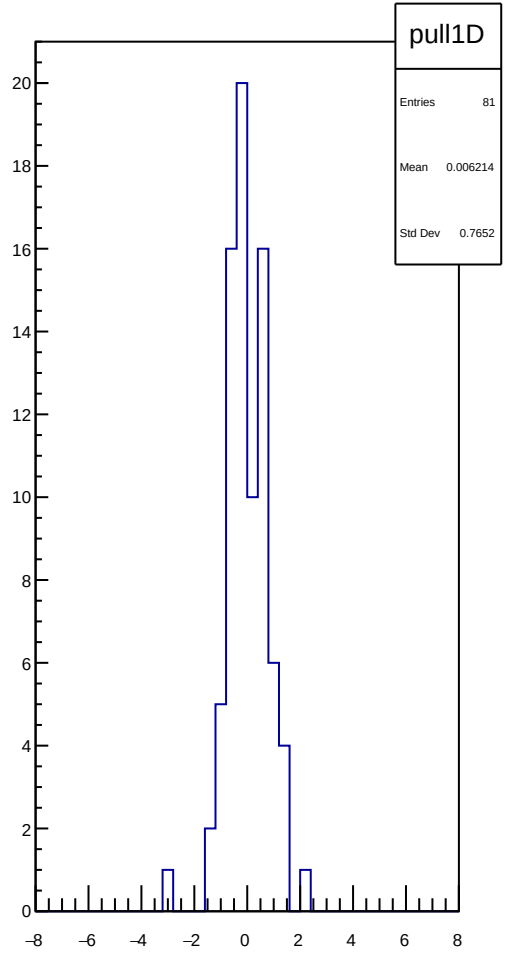

asym_sam_37_48_dd_rms vs run
χ² / ndf 1.205e+04 / 80
p0 290.5 ± 0.235
360
340
320
300
280
260

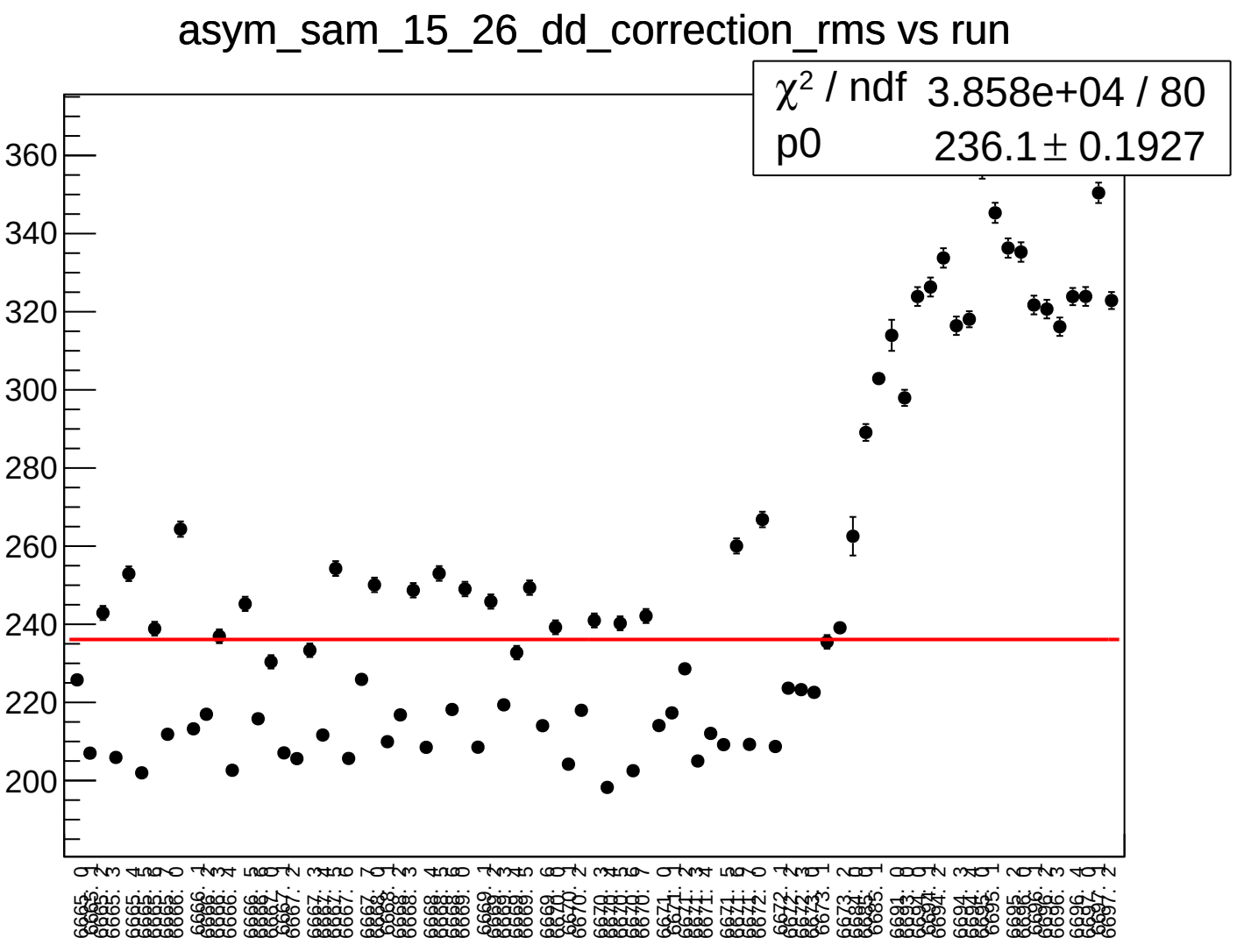

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 66.25 / 80
p0 −34.99 ± 49.62
pull
Entries 81
Mean 399.7
Std Dev 350

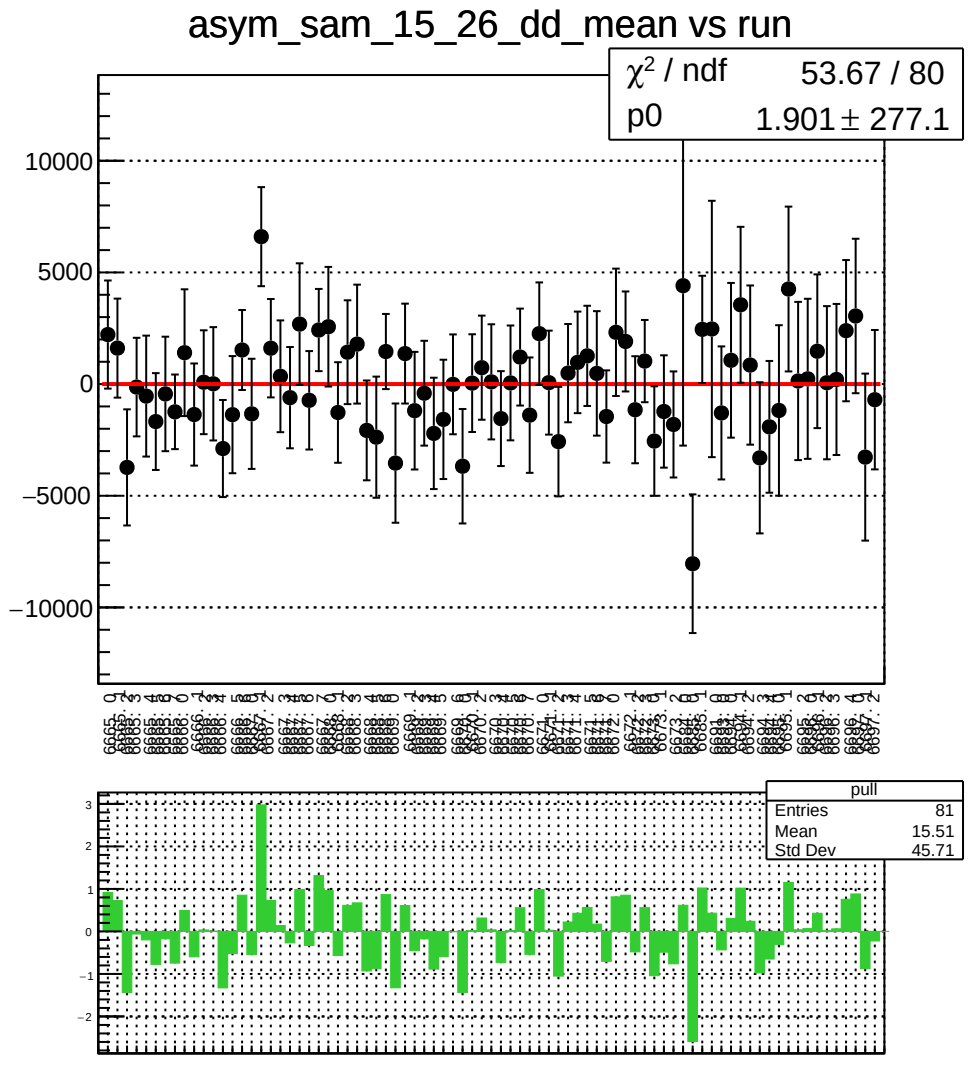

pull1D
Entries 81
Mean −0.005531
Std Dev 0.9043

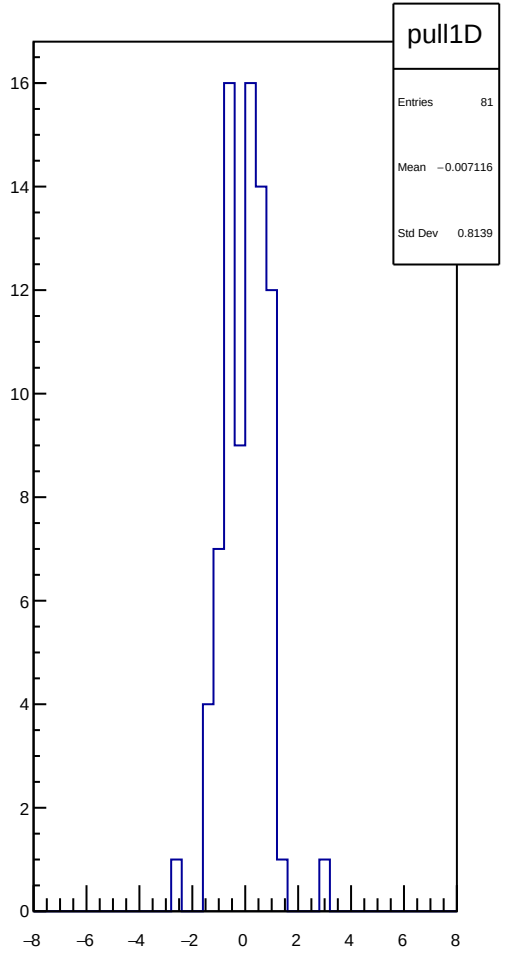

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 3.127e+04 / 80
p0 43.09 ± 0.03509
70
65
60
55
50
45
40
35

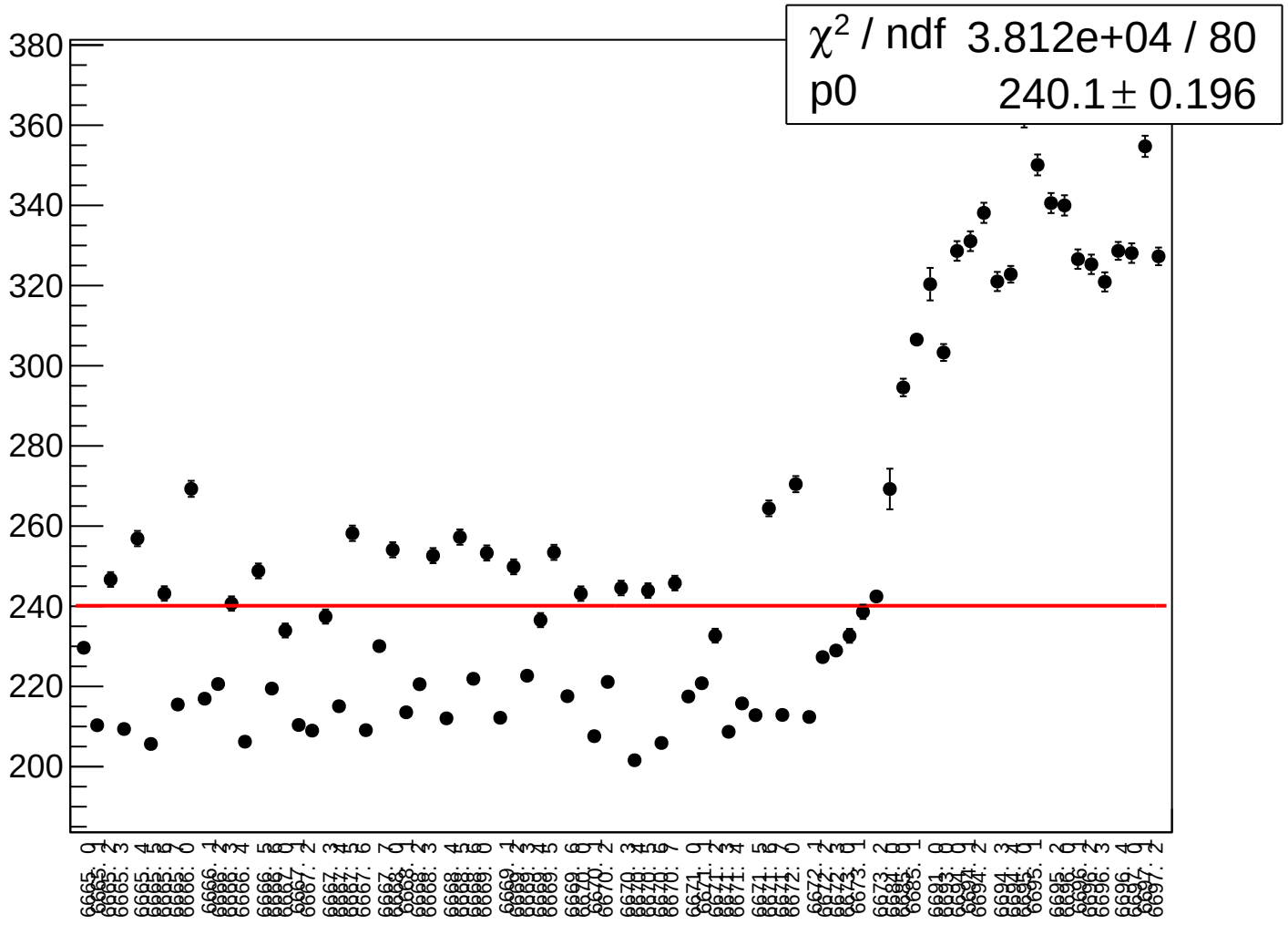

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 47.43 / 80
p0 −38.85 ± 272.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −46.28
Std Dev 100.8
2
1
0
−1
−2
−3

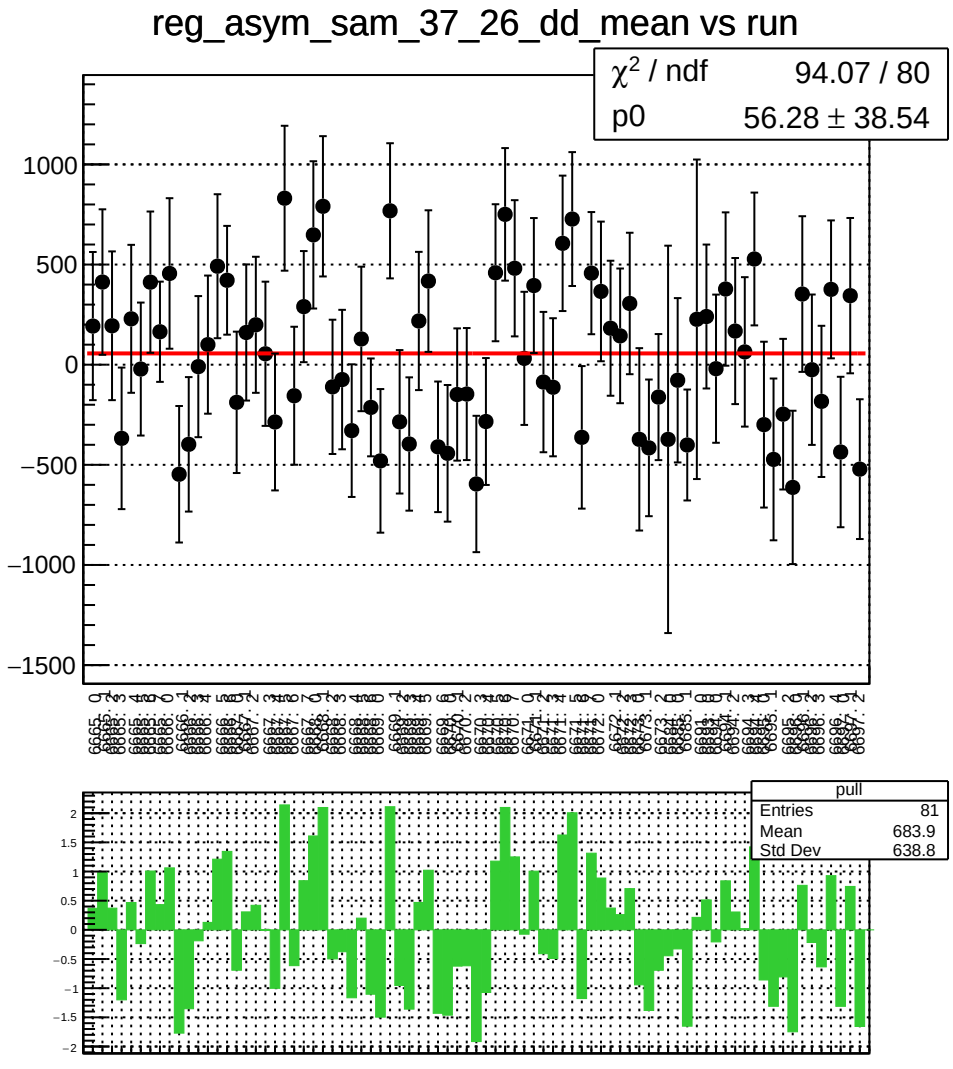

pull1D
Entries 81
Mean 0.006214
Std Dev 0.7652
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

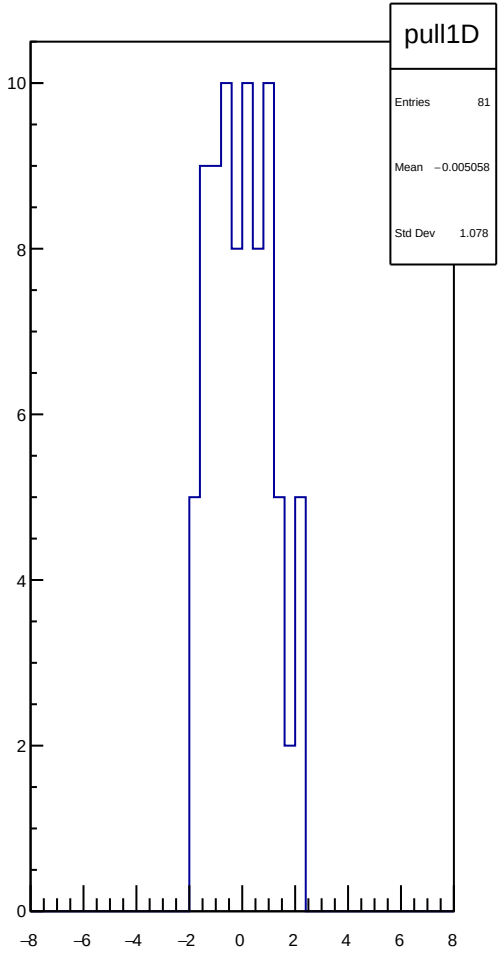

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 3.858e+04 / 80
p0 236.1 ± 0.1927
360
340
320
300
280
260
240
220
200

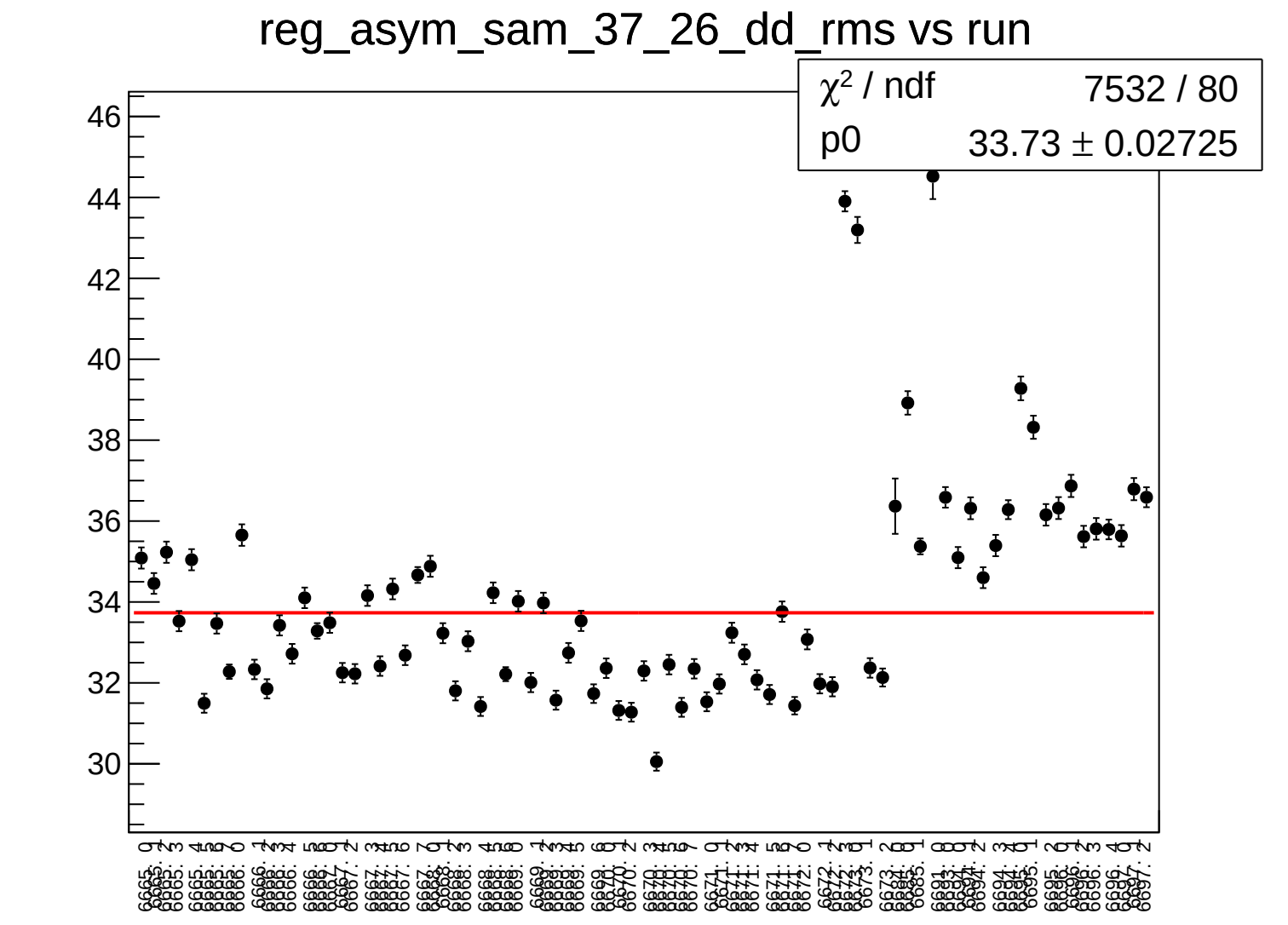

asym_sam_15_26_dd_mean vs run
χ² / ndf 53.67 / 80
p0 1.901 ± 277.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 15.51
Std Dev 45.71
3
2
1
0
−1
−2

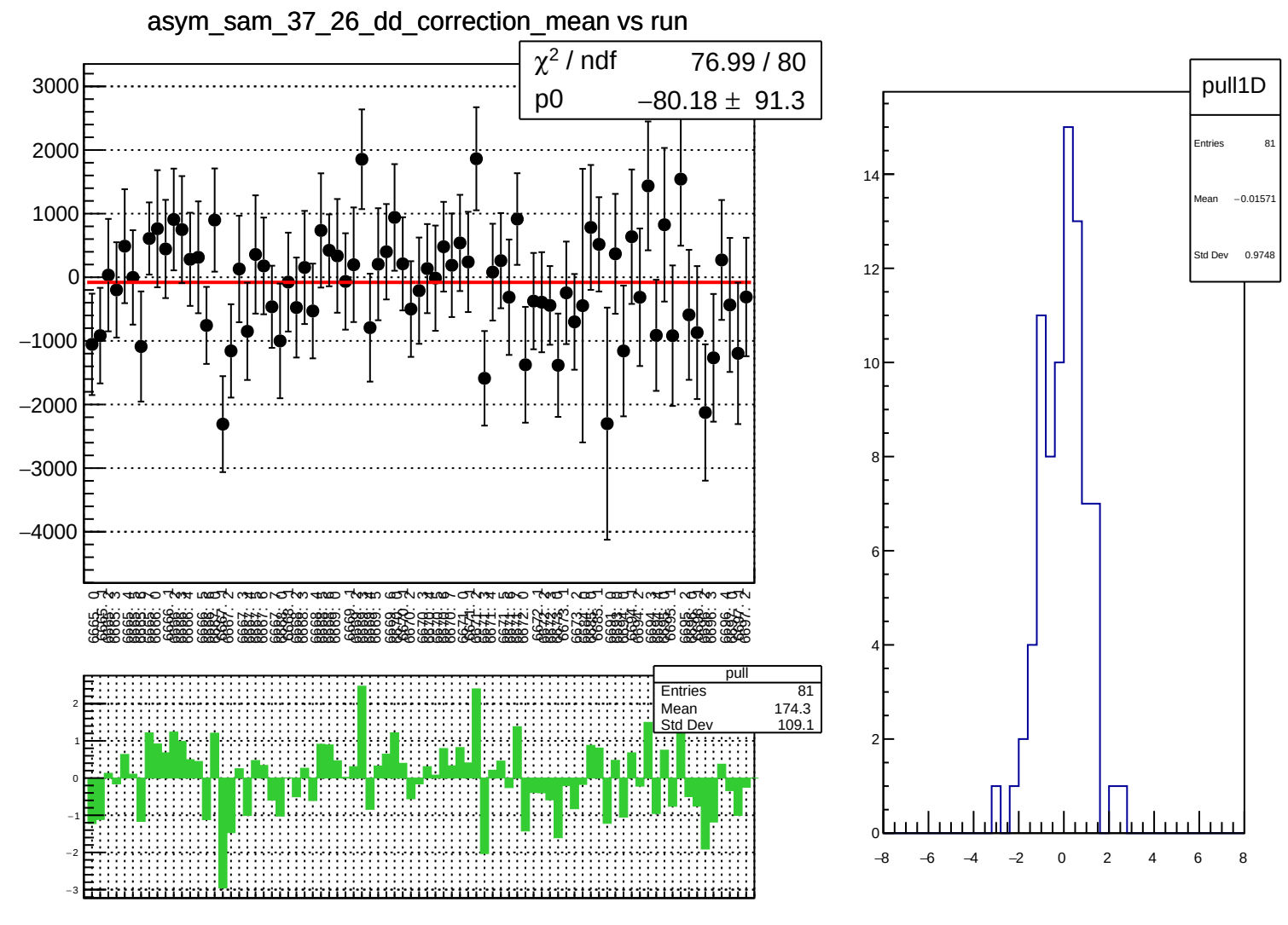

pull1D
Entries 81
Mean −0.007116
Std Dev 0.8139
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

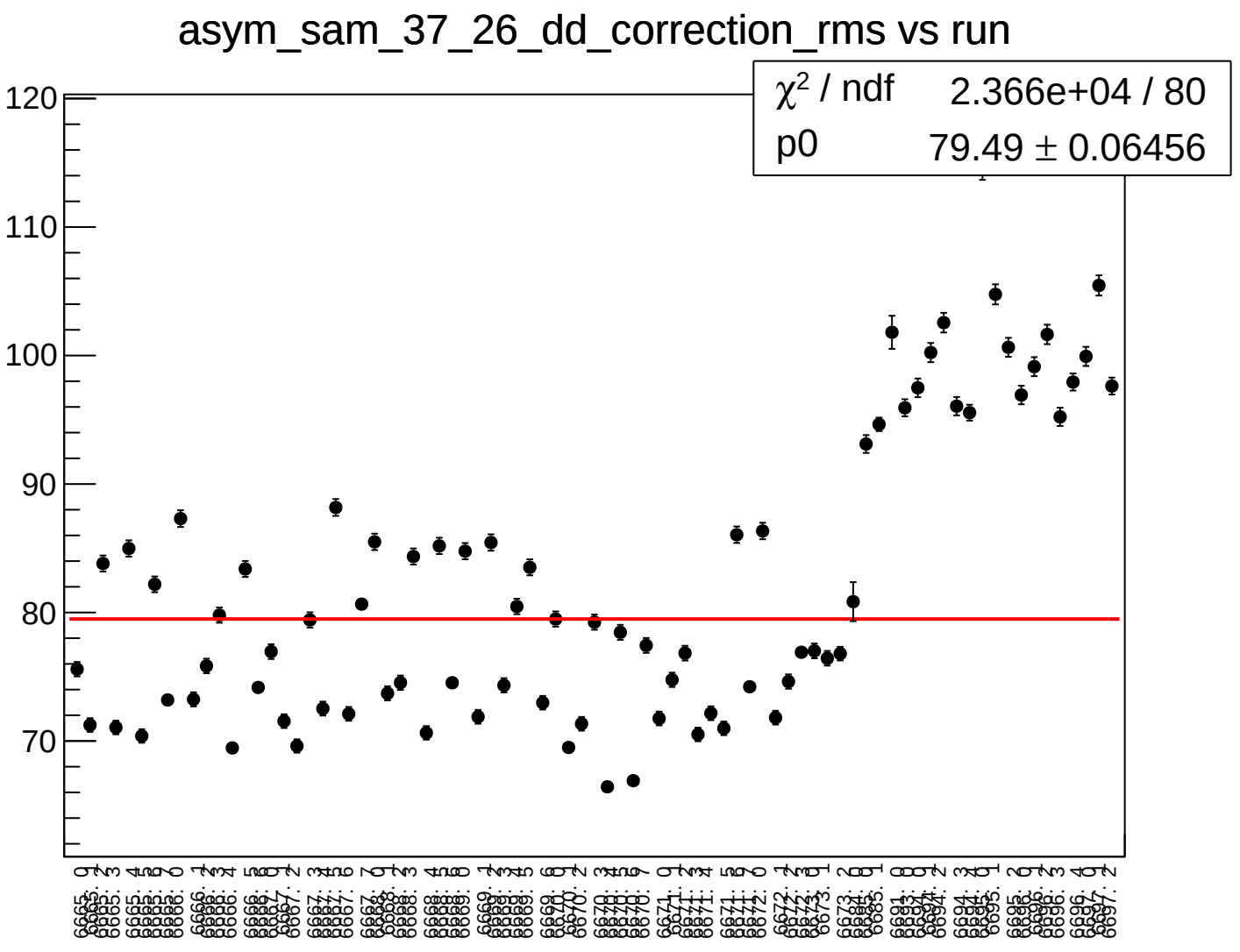

asym_sam_15_26_dd_rms vs run
χ² / ndf 3.812e+04 / 80
p0 240.1 ± 0.196
380
360
340
320
300
280
260
240
220
200

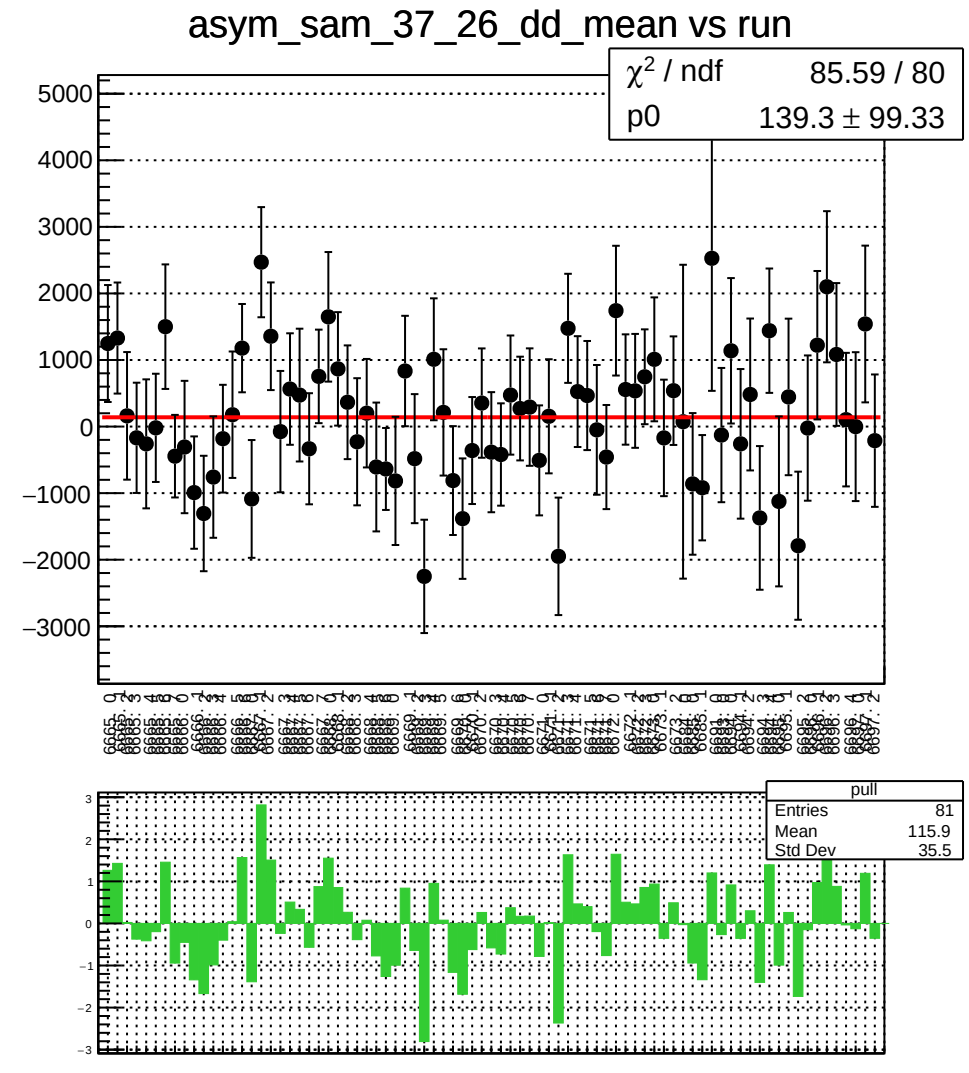

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 94.07 / 80
p0 56.28 ± 38.54
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean 683.9
Std Dev 638.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

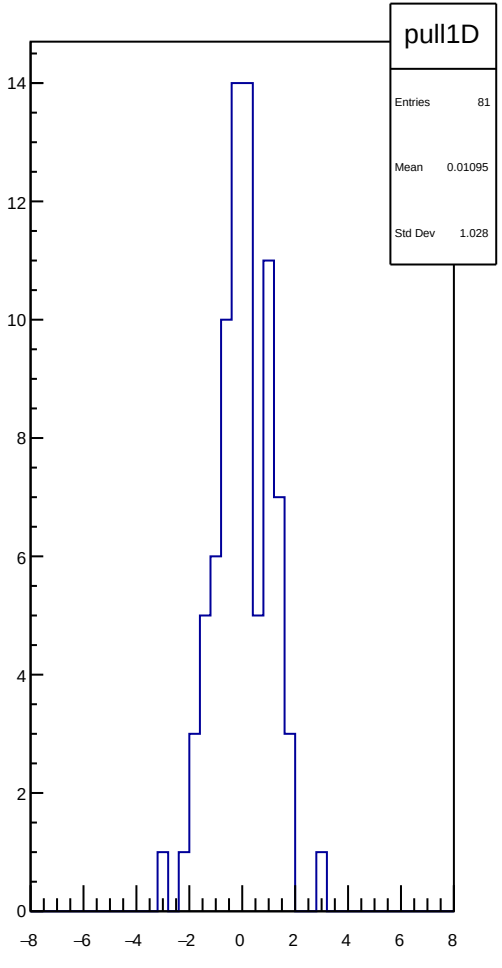

pull1D
Entries 81
Mean −0.005058
Std Dev 1.078
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

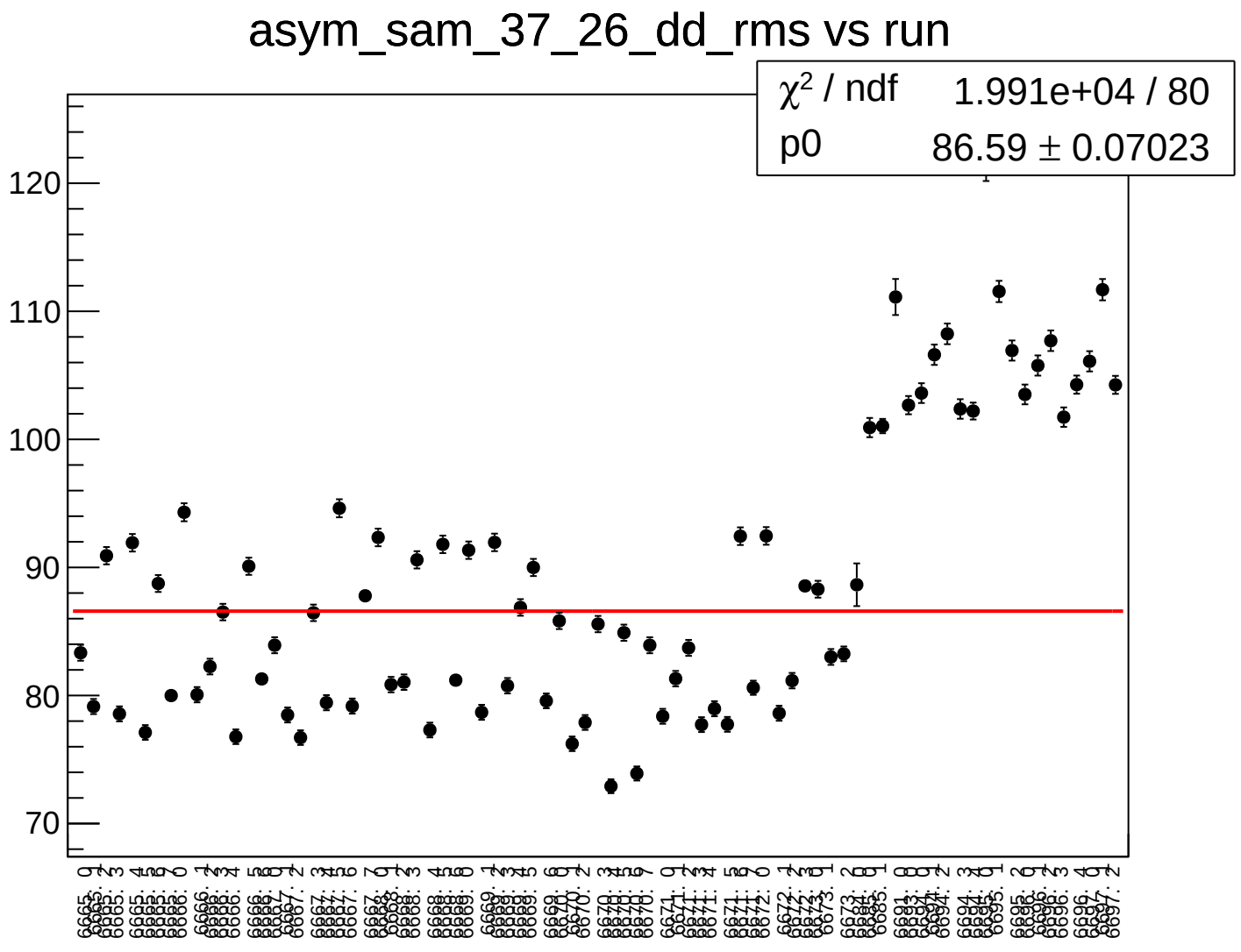

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 7532 / 80
p0 33.73 ± 0.02725
46
44
42
40
38
36
34
32
30

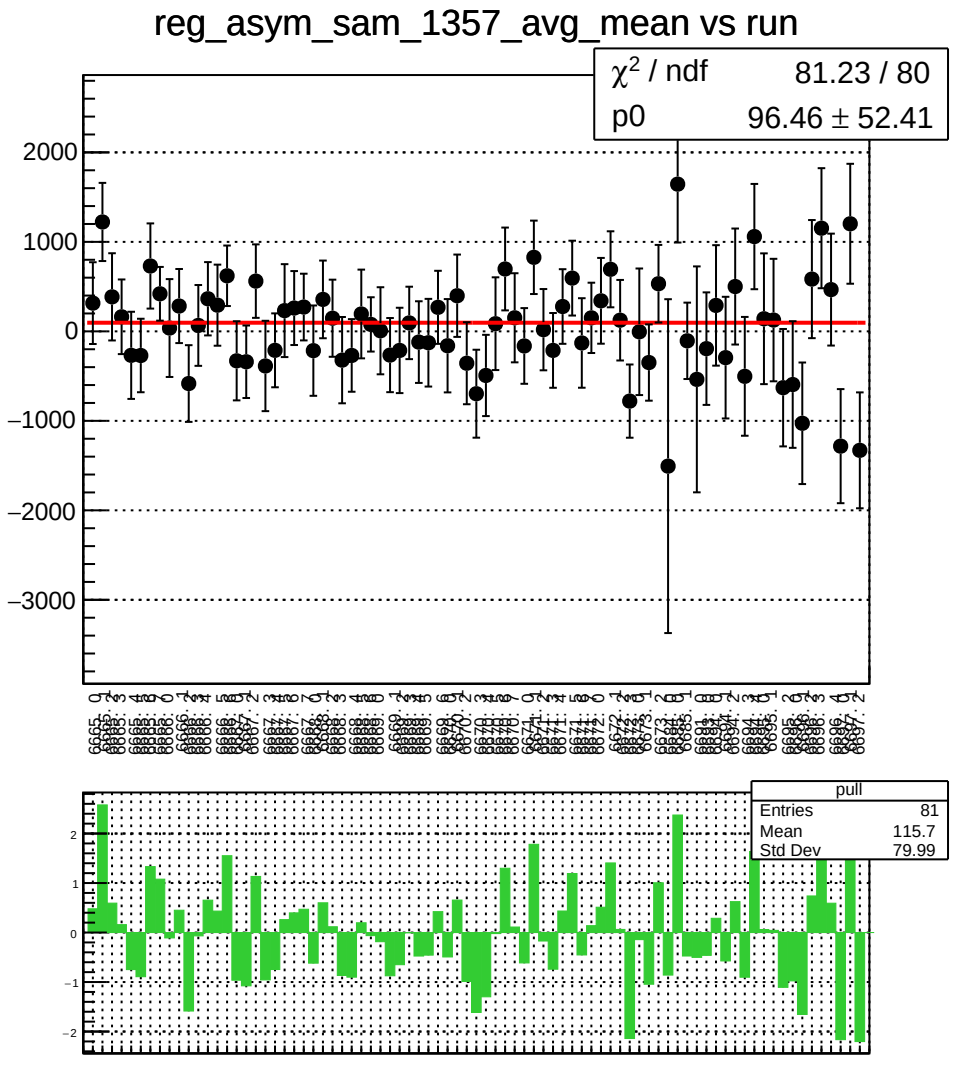

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 76.99 / 80
p0 −80.18 ± 91.3
pull
Entries 81
Mean 174.3
Std Dev 109.1
pull1D
Entries 81
Mean −0.01571
Std Dev 0.9748

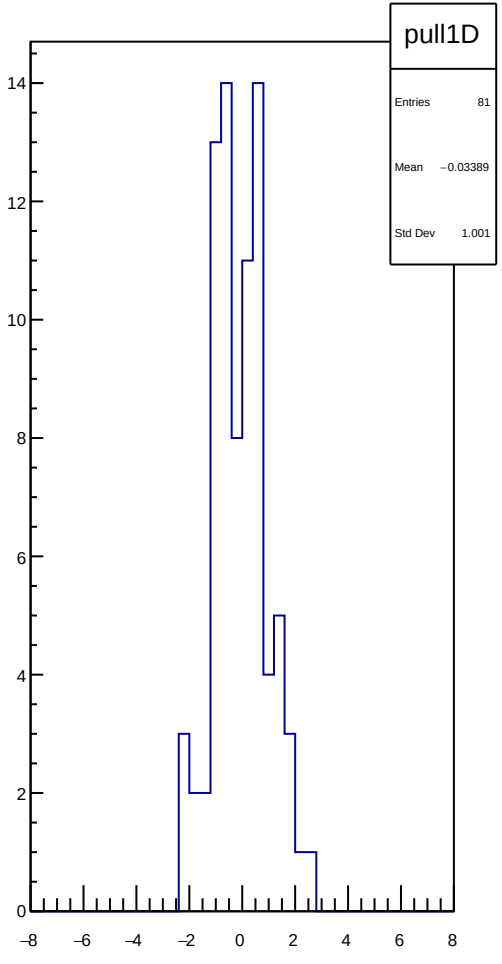

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 2.366e+04 / 80
p0 79.49 ± 0.06456
120
110
100
90
80
70

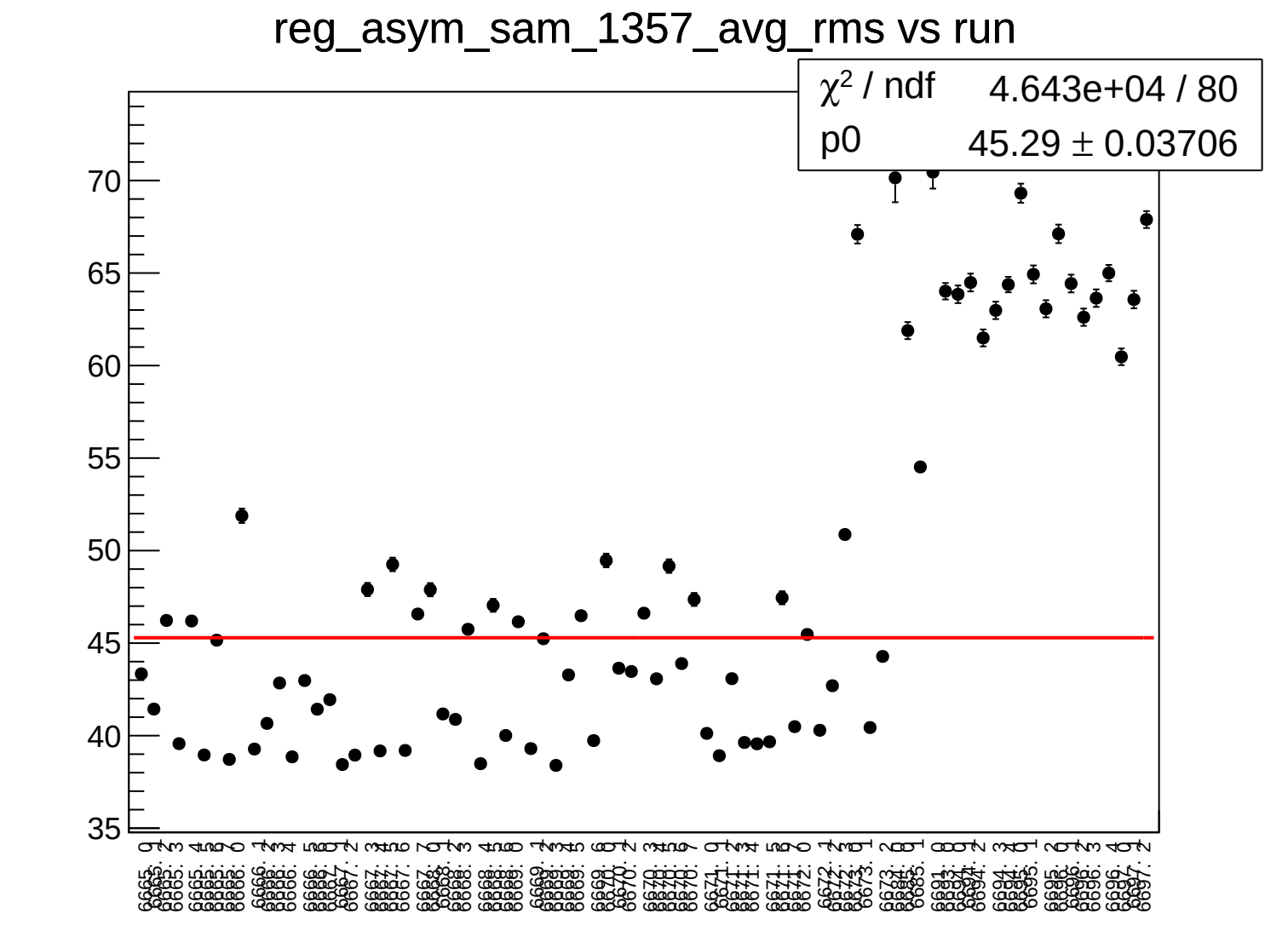

asym_sam_37_26_dd_mean vs run
χ² / ndf 85.59 / 80
p0 139.3 ± 99.33
pull
Entries 81
Mean 115.9
Std Dev 35.5

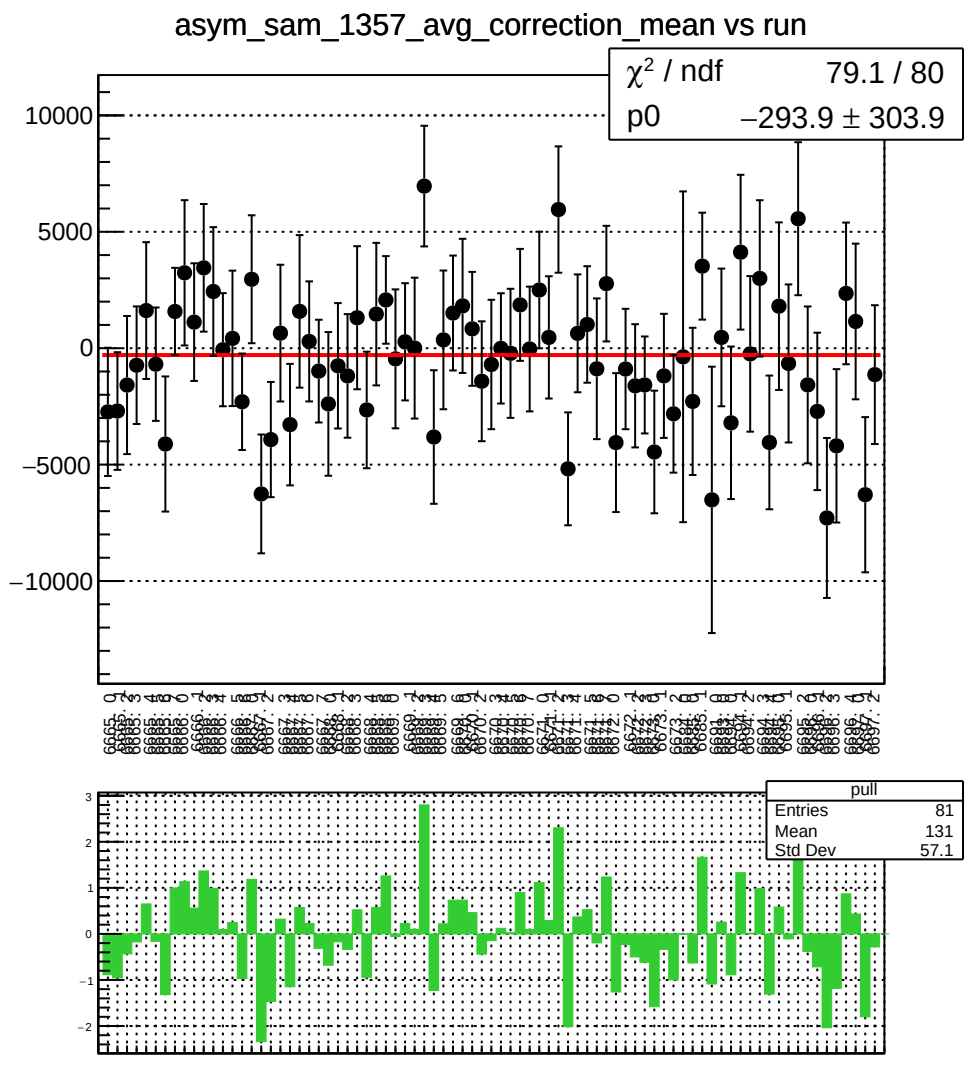

pull1D
Entries 81
Mean 0.01095
Std Dev 1.028

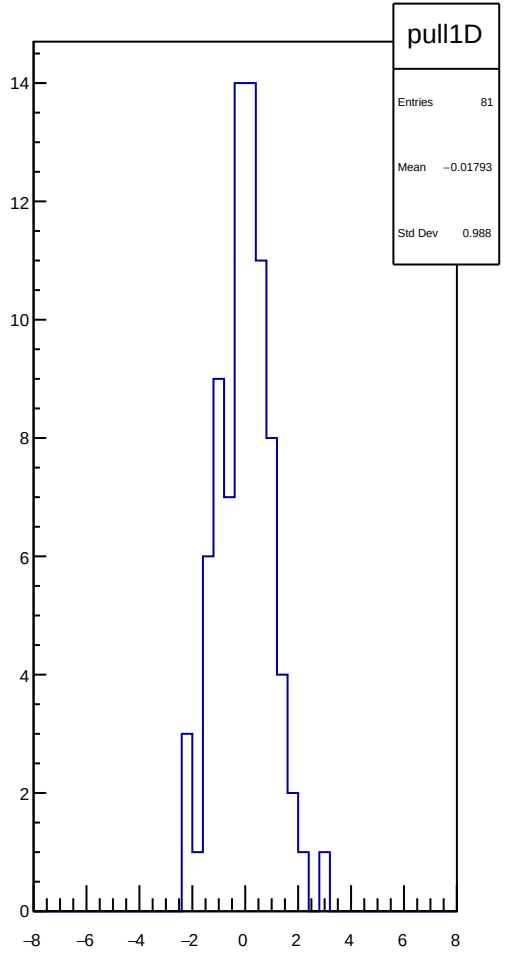

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.991e+04 / 80
p0 86.59 ± 0.07023
120
110
100
90
80
70

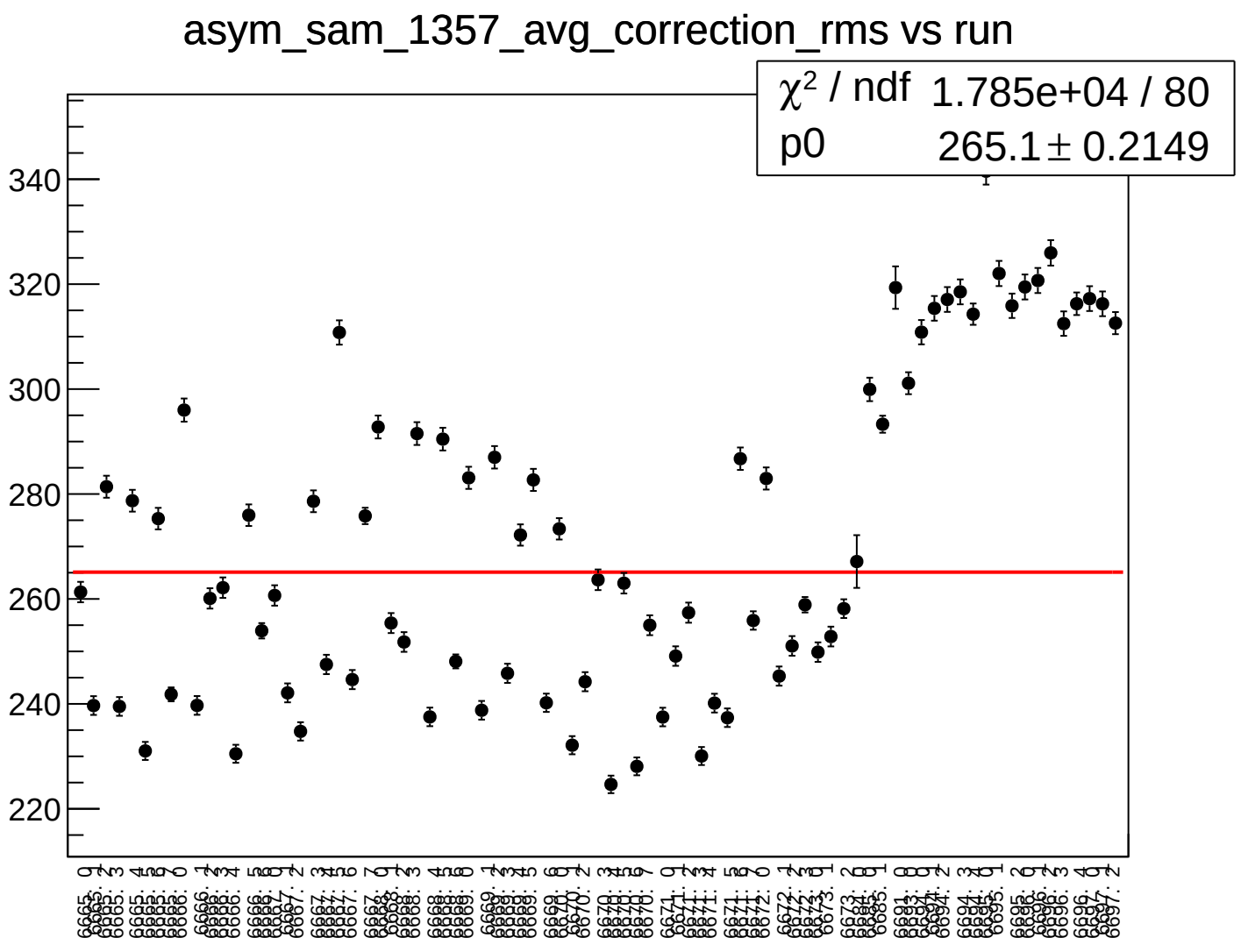

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 81.23 / 80
p0 96.46 ± 52.41
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 115.7
Std Dev 79.99
2
1
0
−1
−2

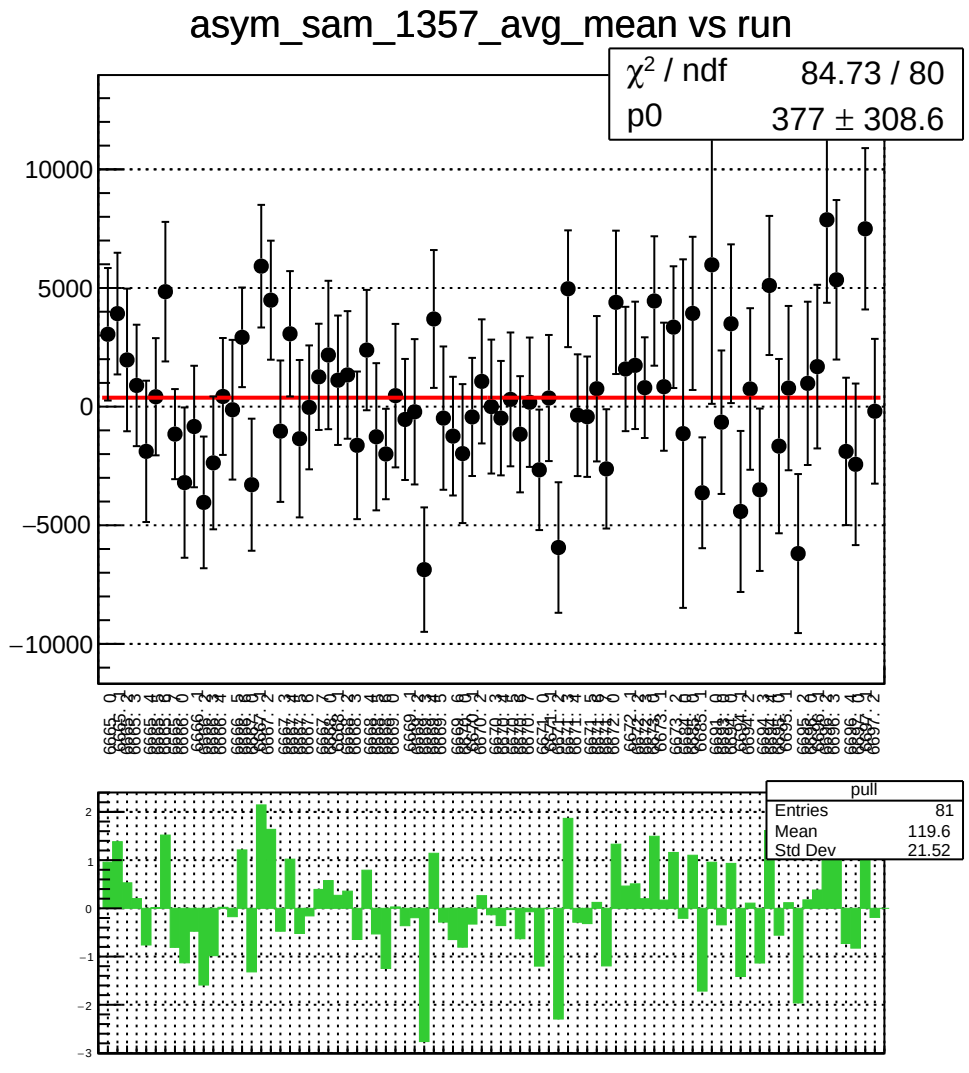

pull1D
Entries 81
Mean −0.03389
Std Dev 1.001
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

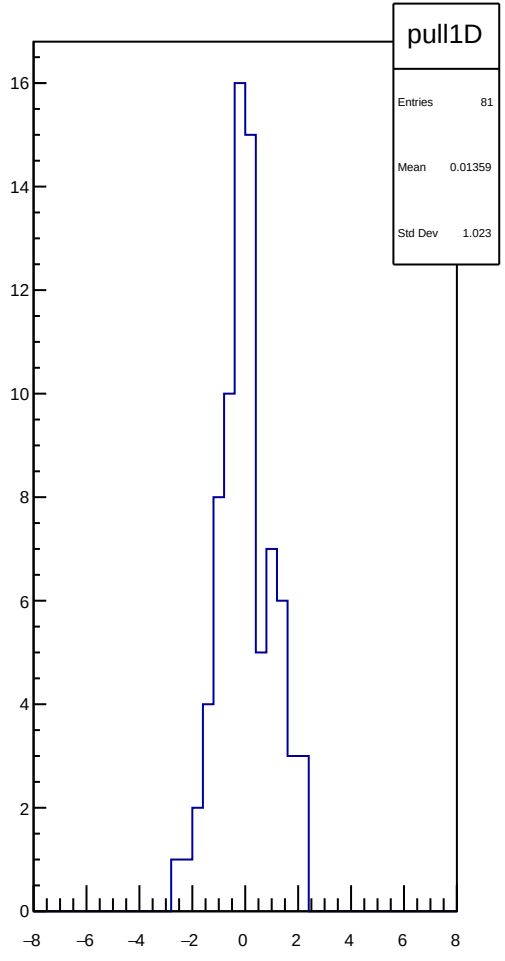

reg_asym_sam_1357_avg_rms vs run
χ² / ndf 4.643e+04 / 80
p0 45.29 ± 0.03706
70
65
60
55
50
45
40
35

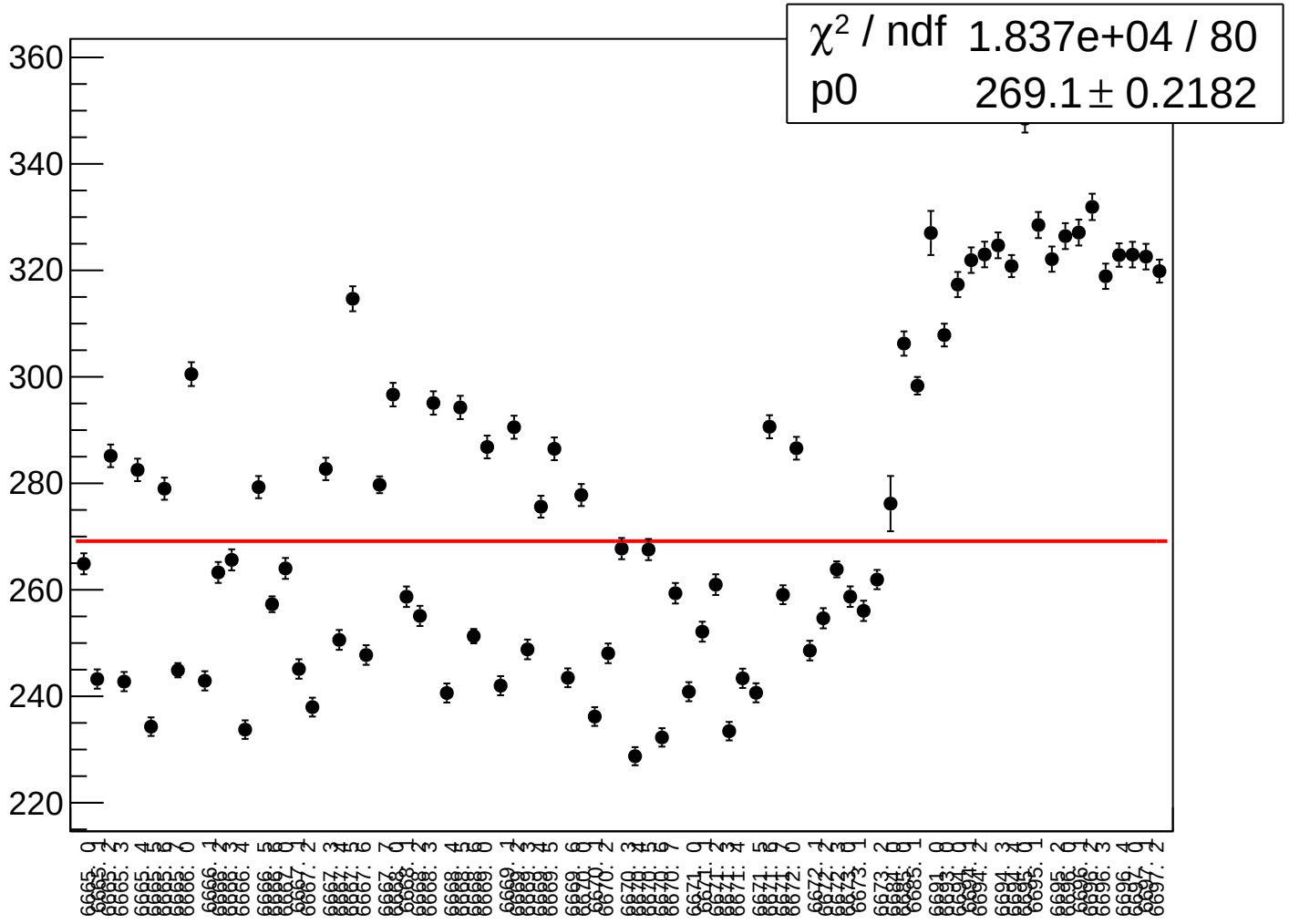

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 79.1 / 80
p0 −293.9 ± 303.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 131
Std Dev 57.1
3
2
1
0
−1
−2

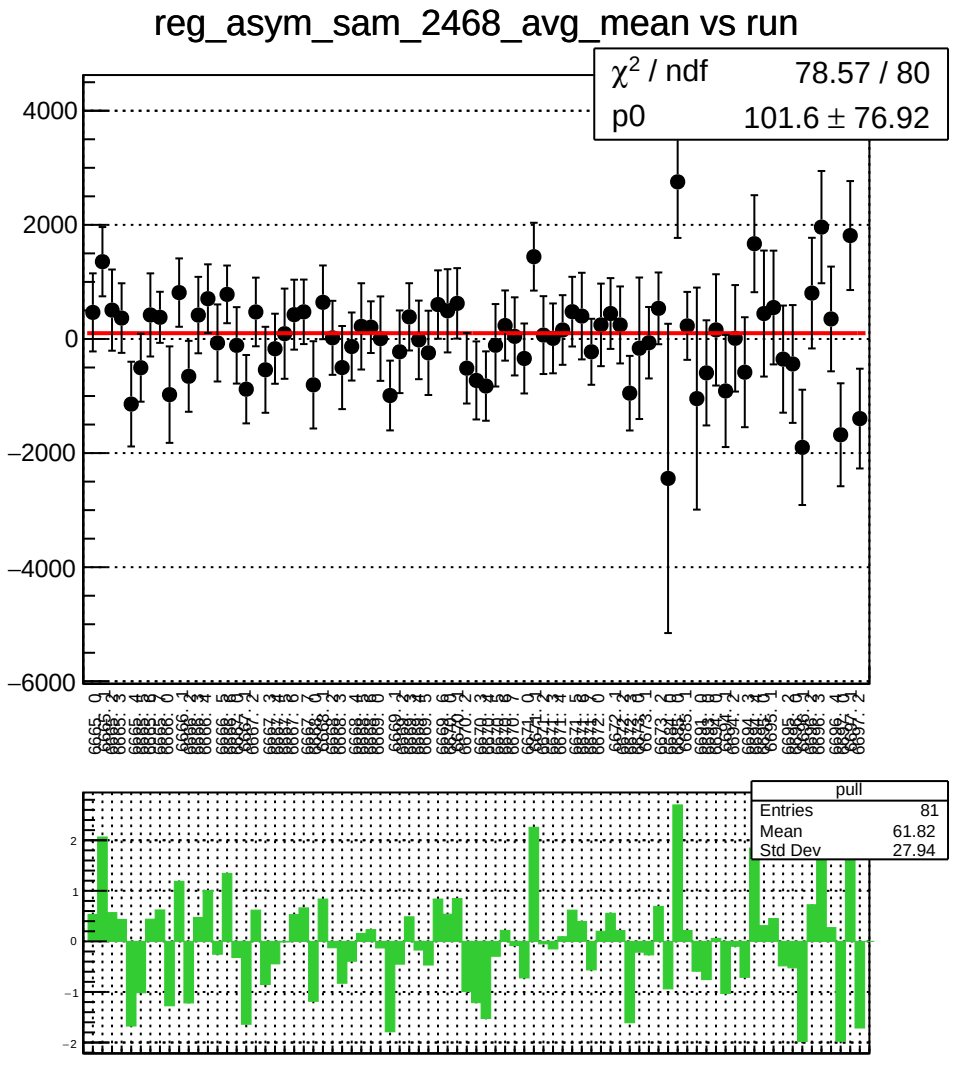

pull1D
Entries 81
Mean −0.01793
Std Dev 0.988
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

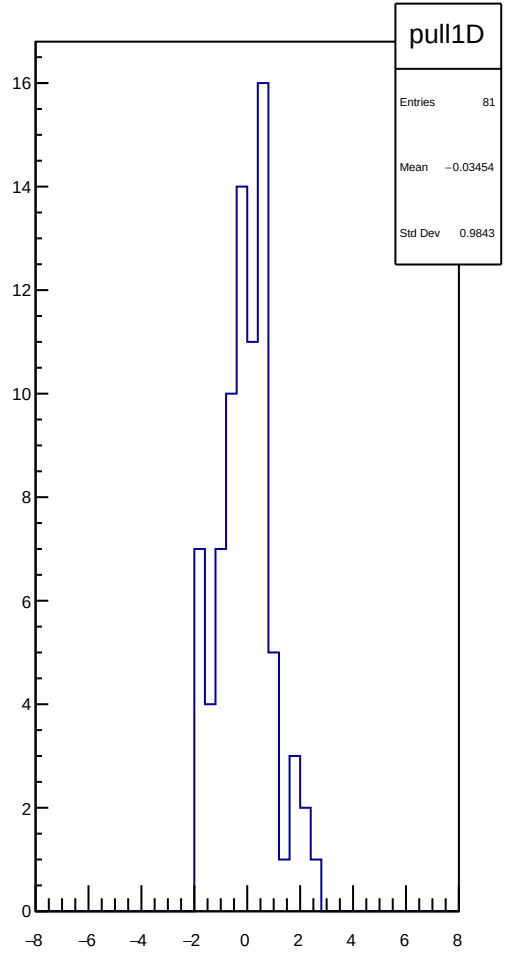

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 1.785e+04 / 80
p0 265.1 ± 0.2149
340
320
300
280
260
240
220

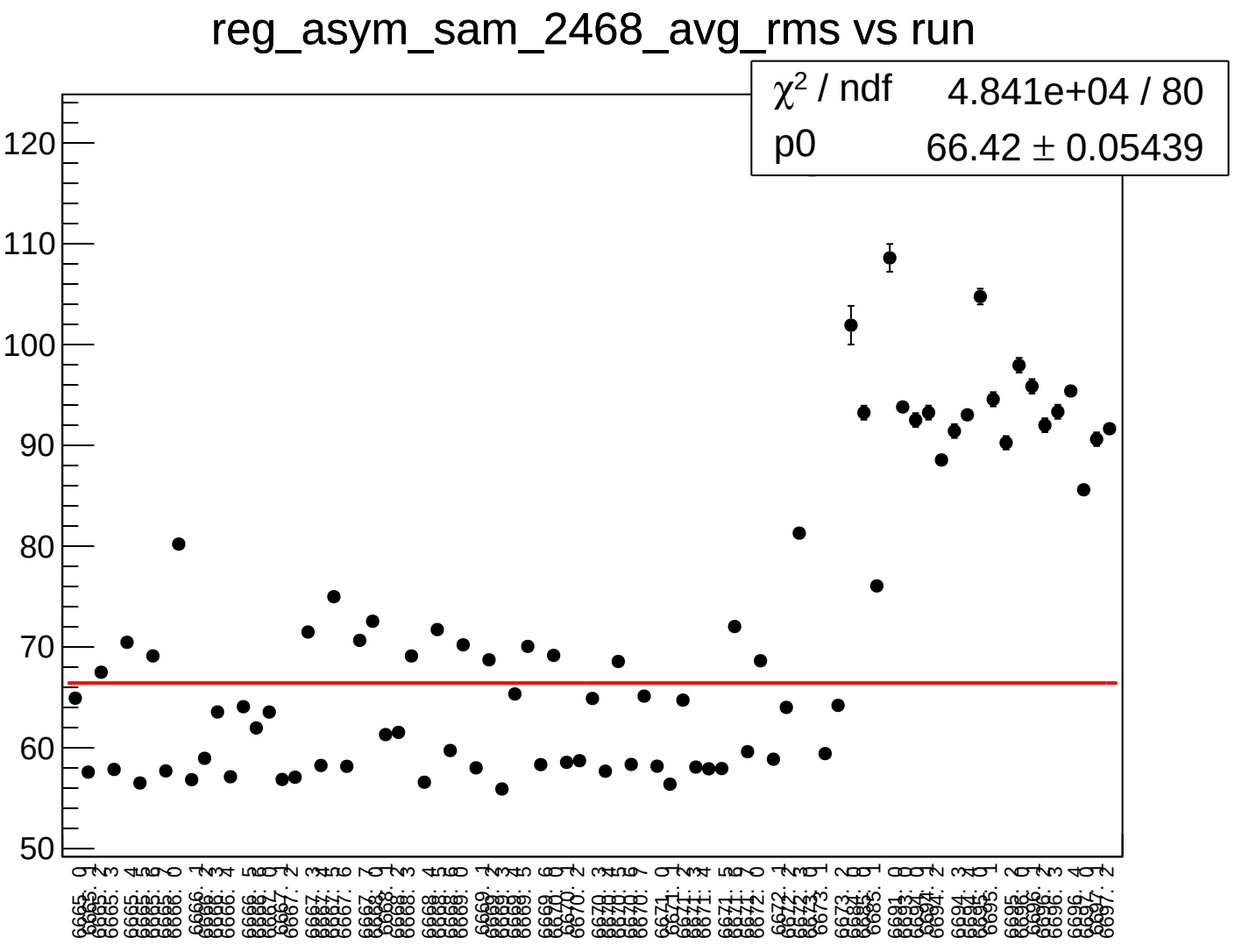

asym_sam_1357_avg_mean vs run
χ² / ndf 84.73 / 80
p0 377 ± 308.6
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 119.6
Std Dev 21.52
2
1
0
−1
−2
−3

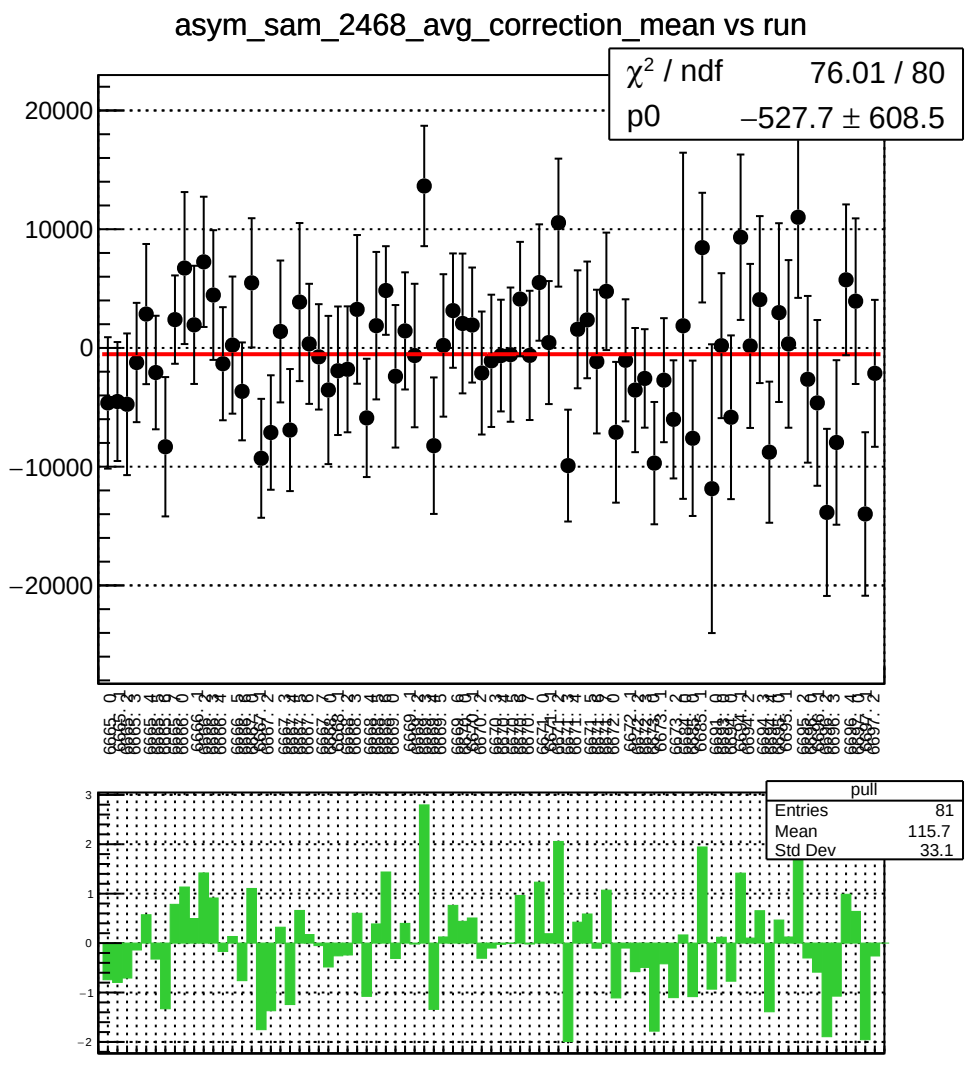

pull1D
Entries 81
Mean 0.01359
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

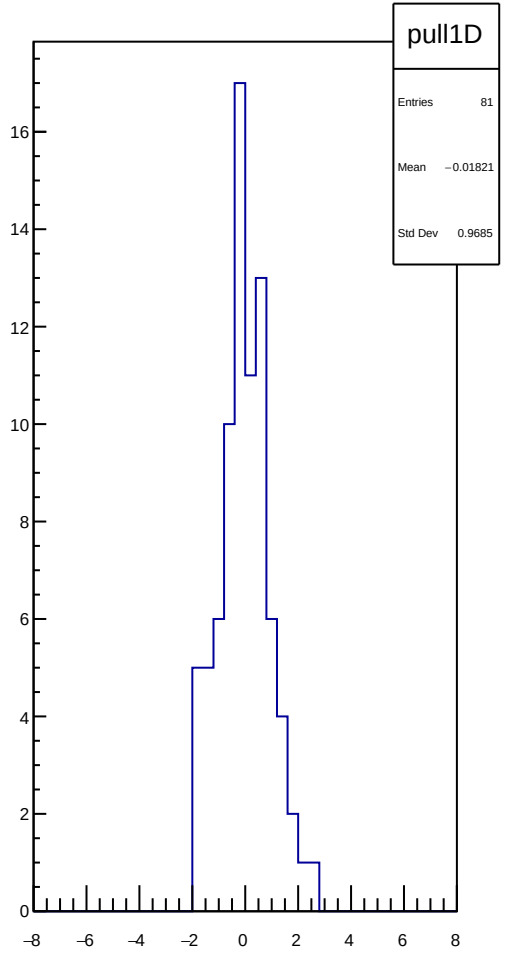

asym_sam_1357_avg_rms vs run
χ² / ndf 1.837e+04 / 80
p0 269.1 ± 0.2182
360
340
320
300
280
260
240
220

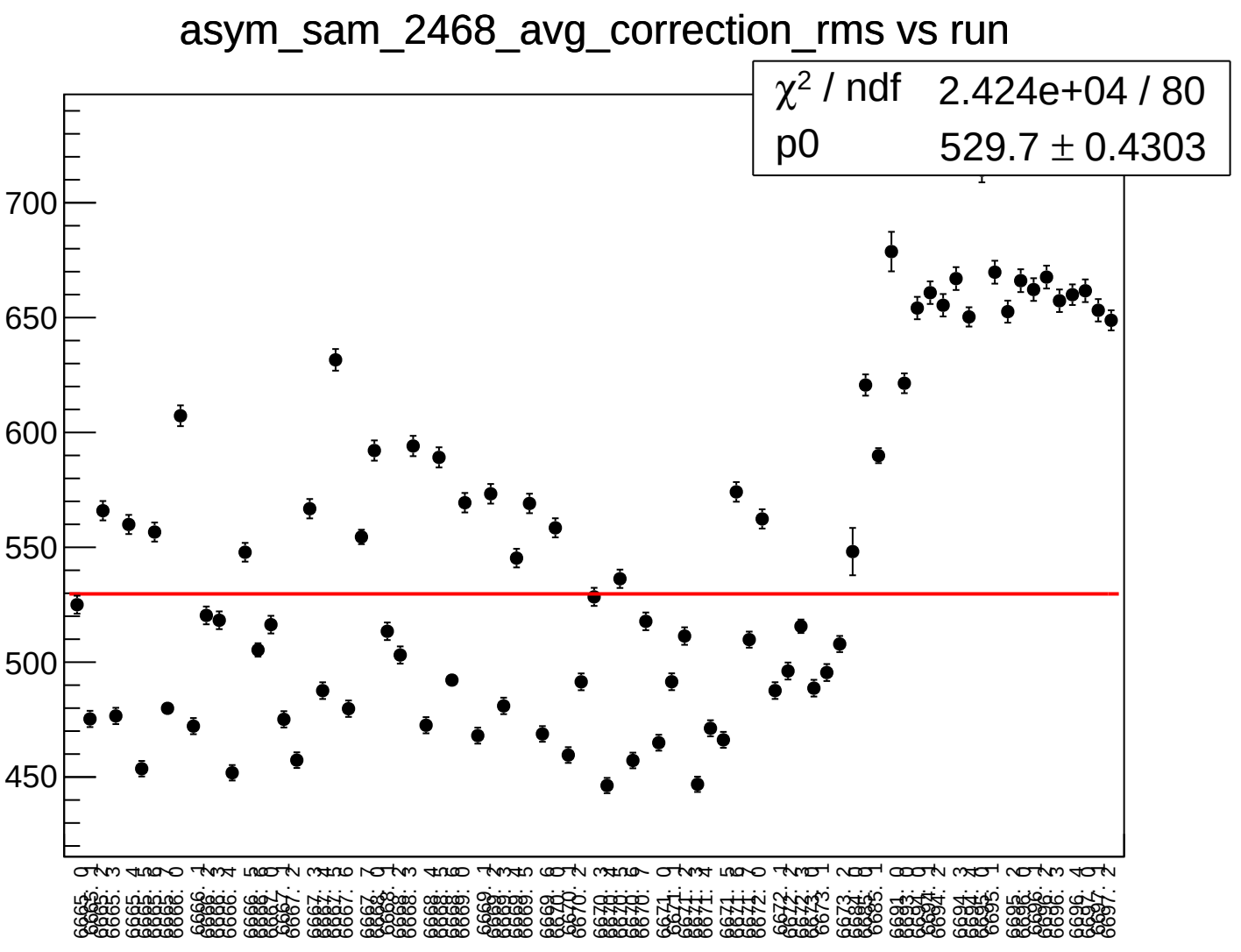

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 78.57 / 80
p0 101.6 ± 76.92
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 61.82
Std Dev 27.94
2
1
0
−1
−2

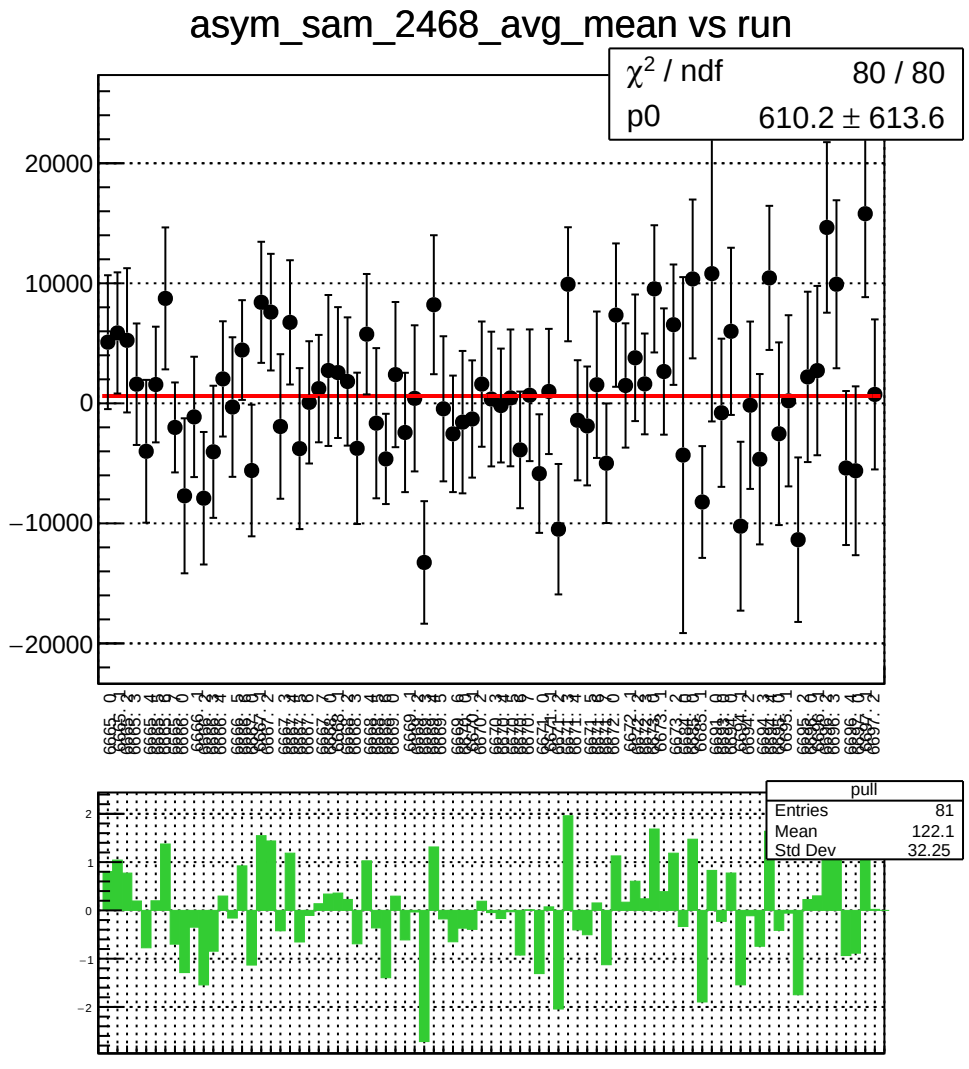

pull1D
Entries 81
Mean −0.03454
Std Dev 0.9843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

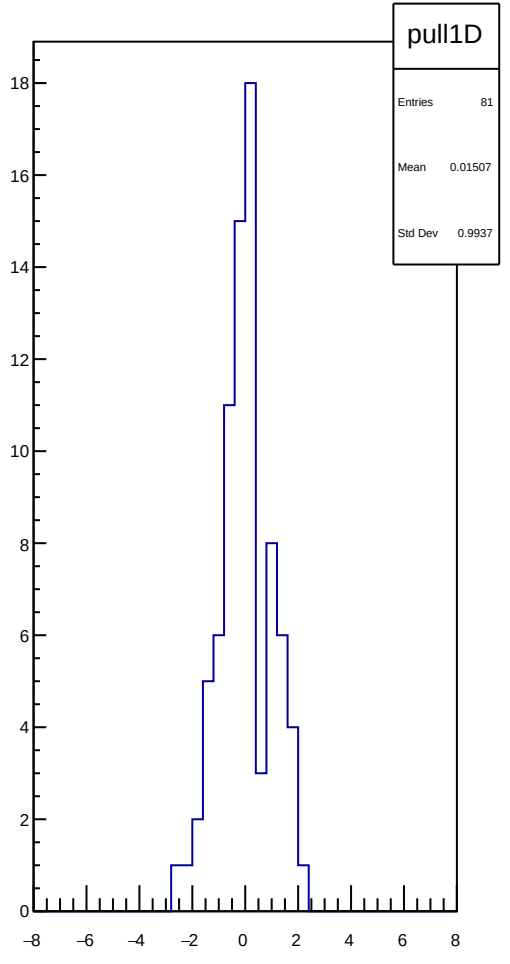

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 4.841e+04 / 80
p0 66.42 ± 0.05439
120
110
100
90
80
70
60
50

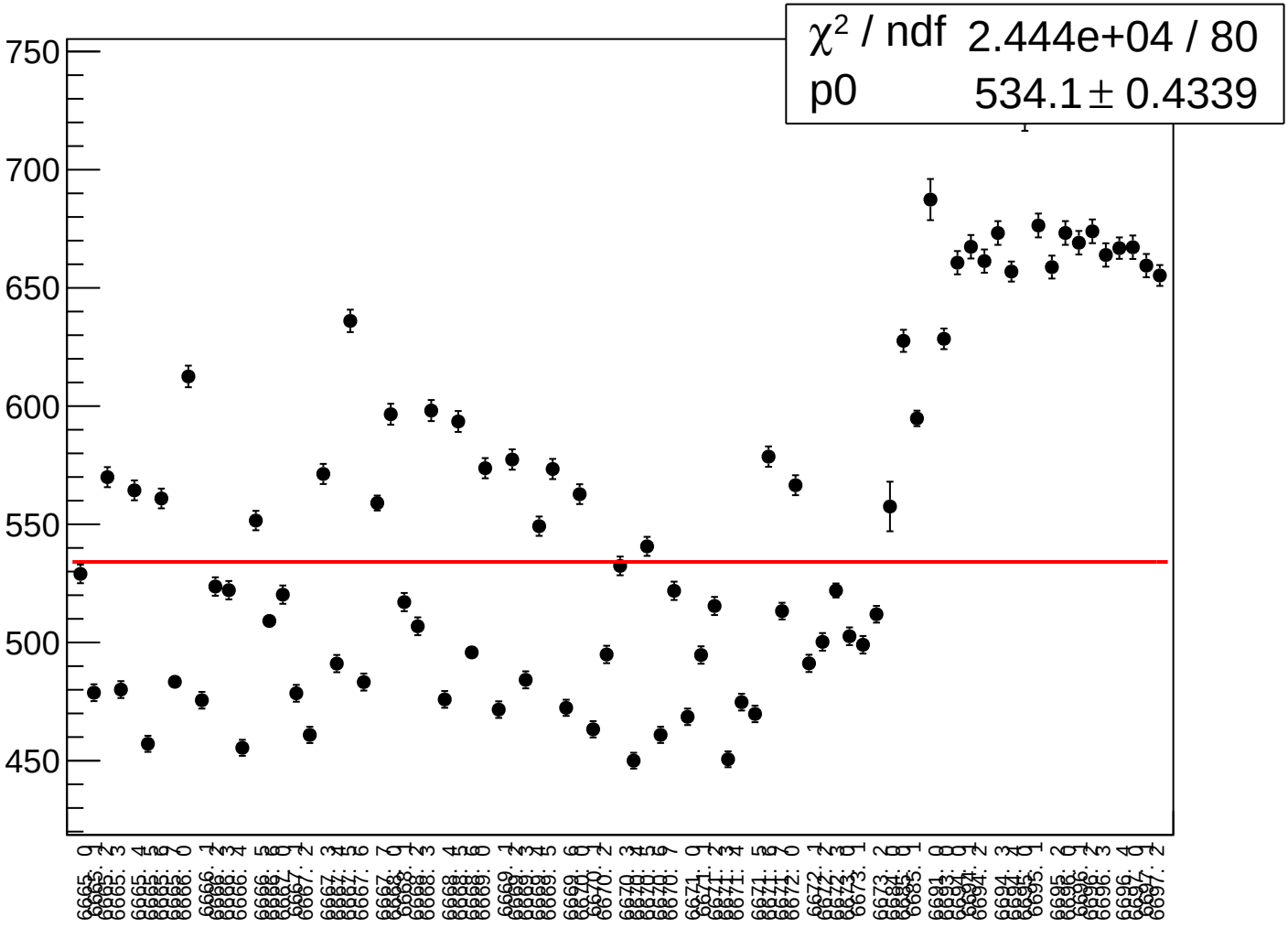

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 76.01 / 80
p0 −527.7 ± 608.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 115.7
Std Dev 33.1
3
2
1
0
−1
−2

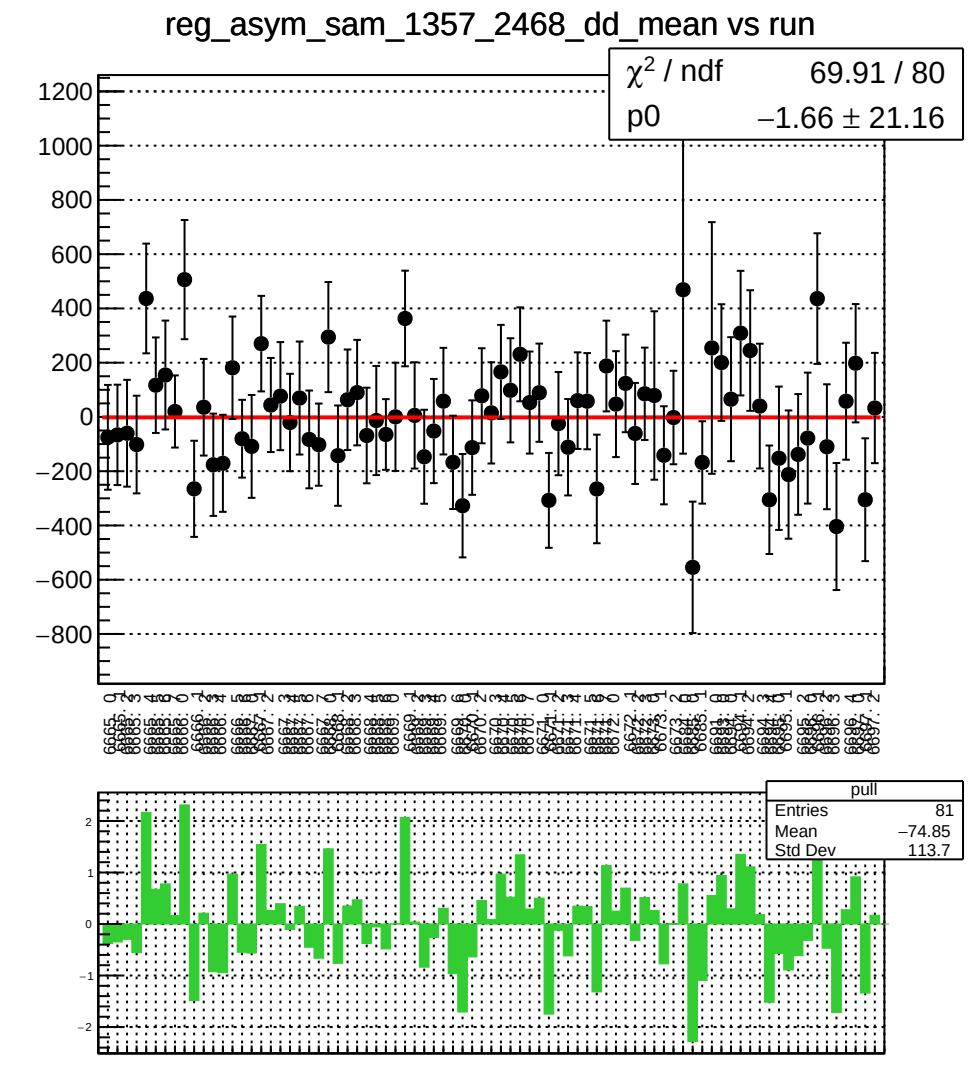

pull1D
Entries 81
Mean −0.01821
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

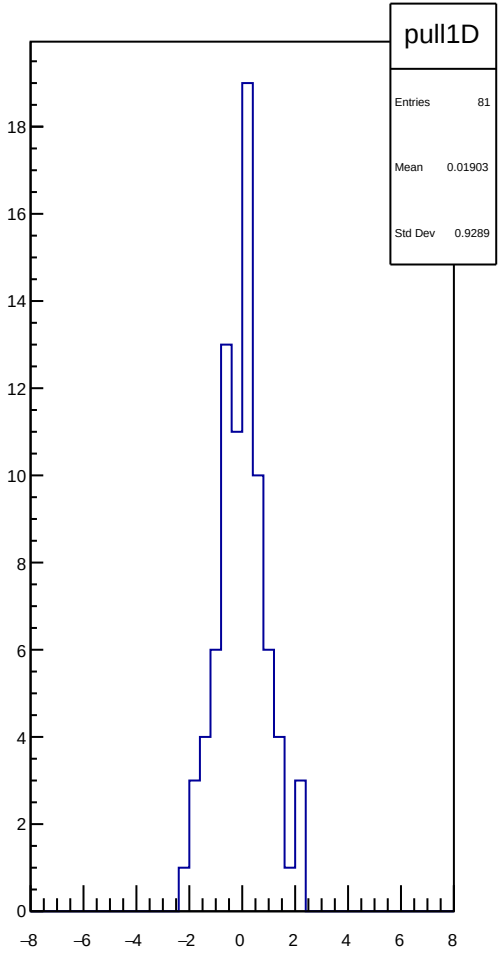

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2.424e+04 / 80
p0 529.7 ± 0.4303
700
650
600
550
500
450

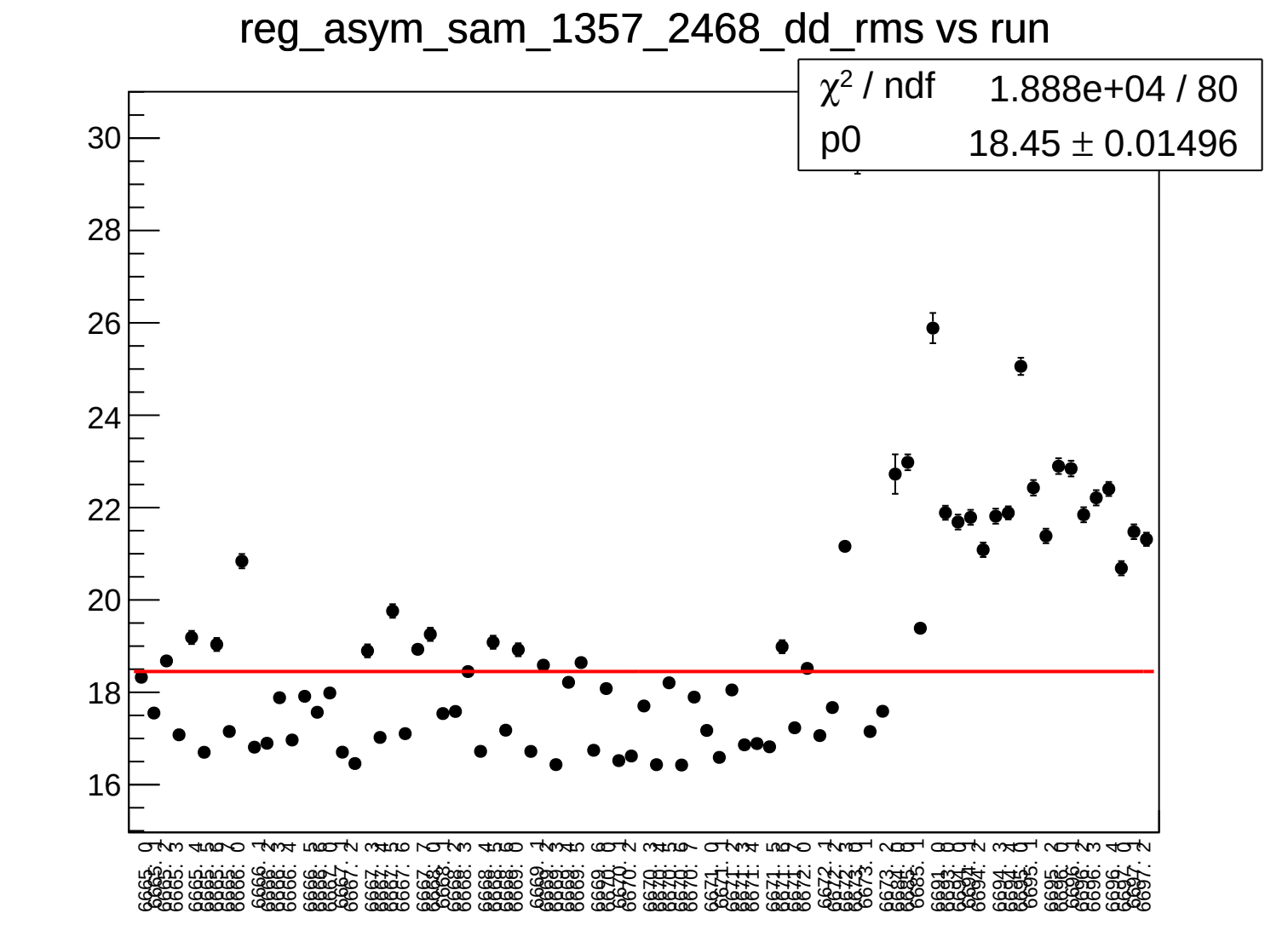

asym_sam_2468_avg_mean vs run
χ² / ndf 80 / 80
p0 610.2 ± 613.6
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 122.1
Std Dev 32.25
2
1
0
−1
−2

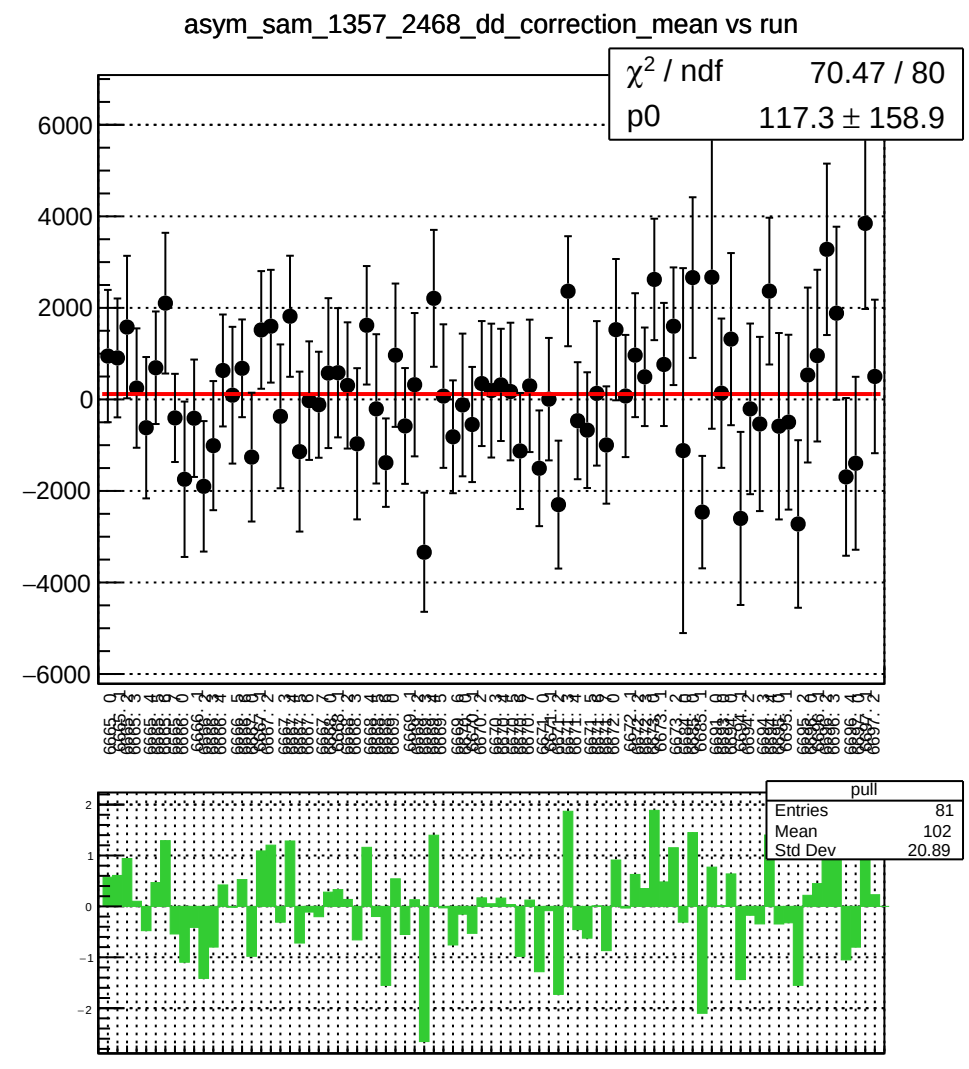

pull1D
Entries 81
Mean 0.01507
Std Dev 0.9937
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

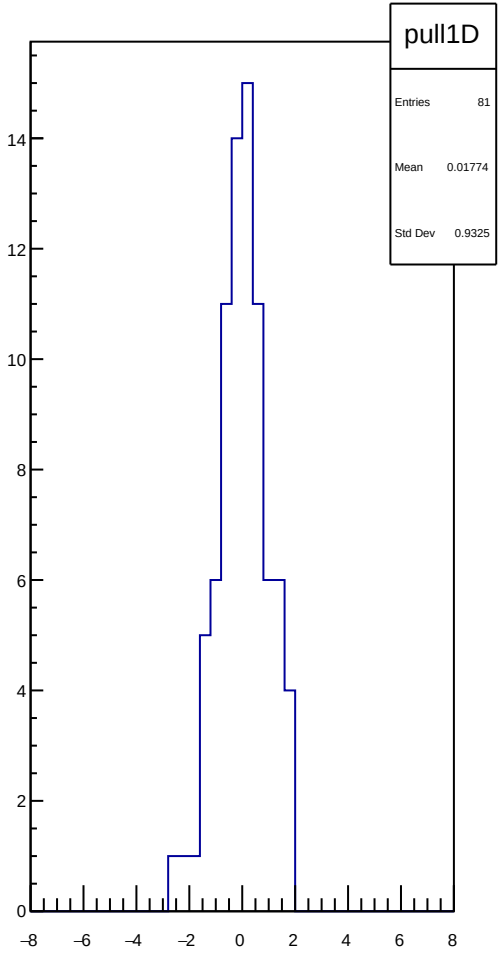

asym_sam_2468_avg_rms vs run
χ² / ndf 2.444e+04 / 80
p0 534.1 ± 0.4339
750
700
650
600
550
500
450

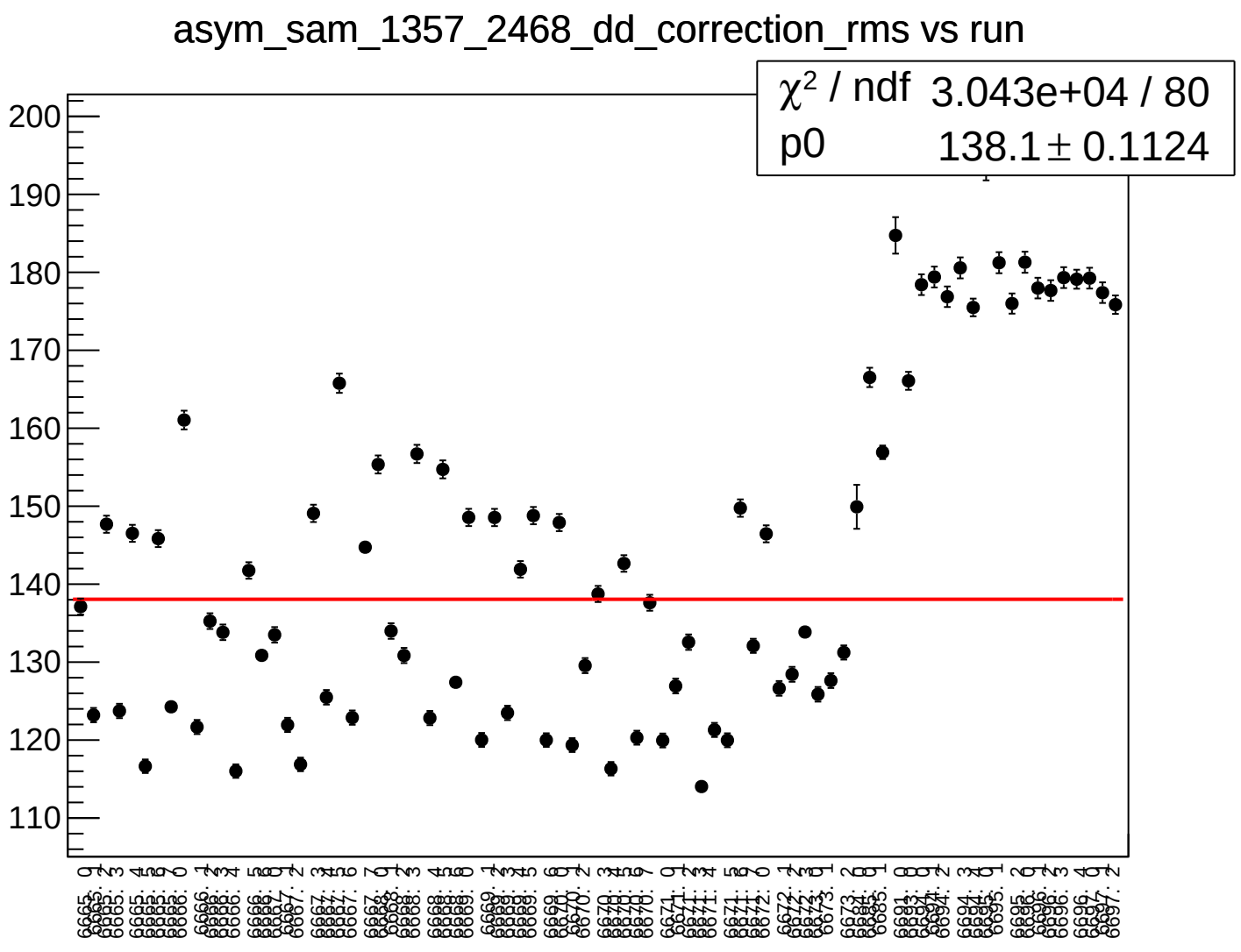

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 69.91 / 80
p0 −1.66 ± 21.16
pull
Entries 81
Mean −74.85
Std Dev 113.7

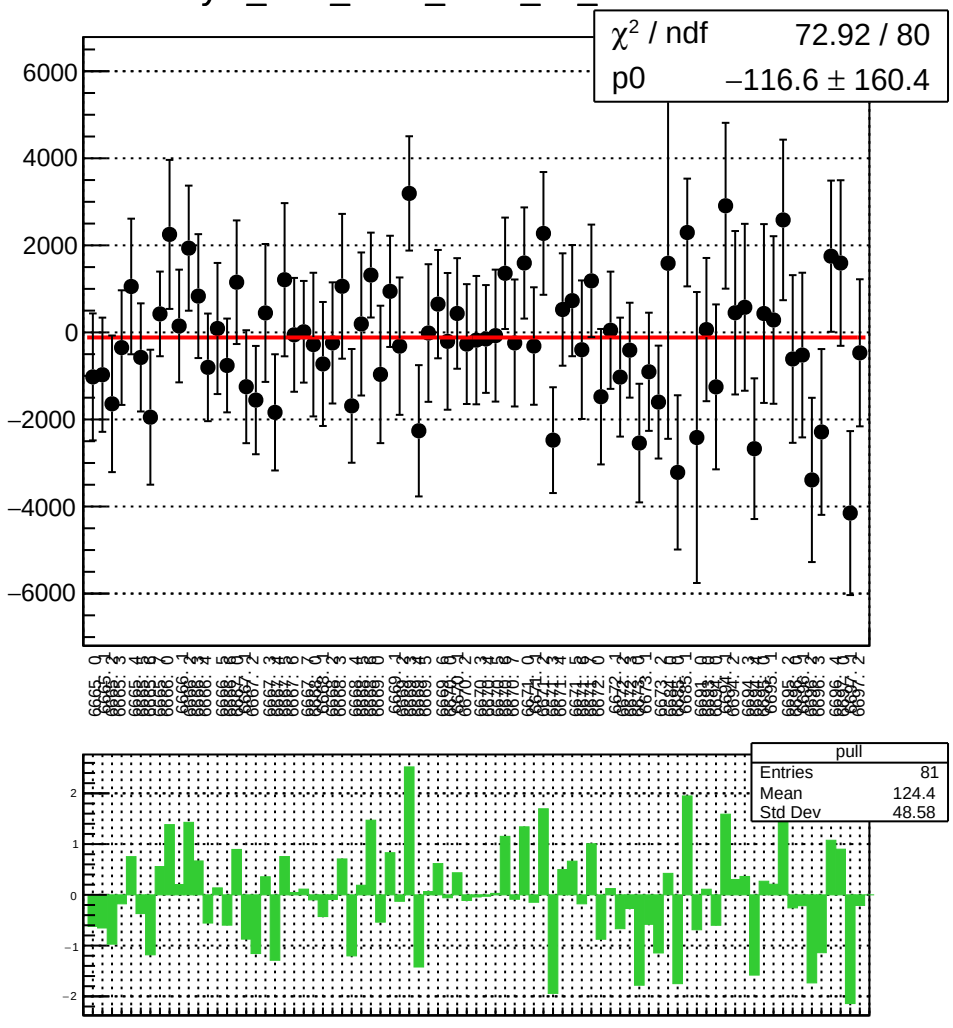

pull1D
Entries 81
Mean 0.01903
Std Dev 0.9289

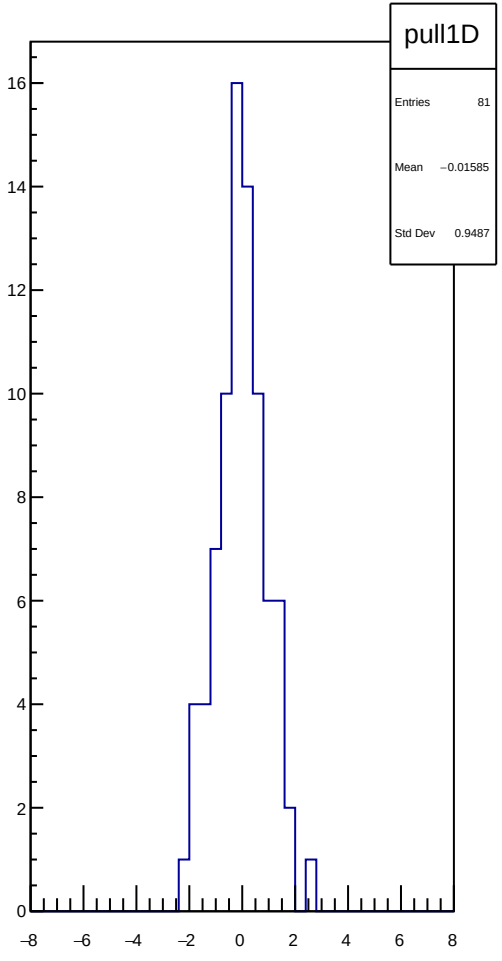

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.888e+04 / 80
p0 18.45 ± 0.01496
30
28
26
24
22
20
18
16

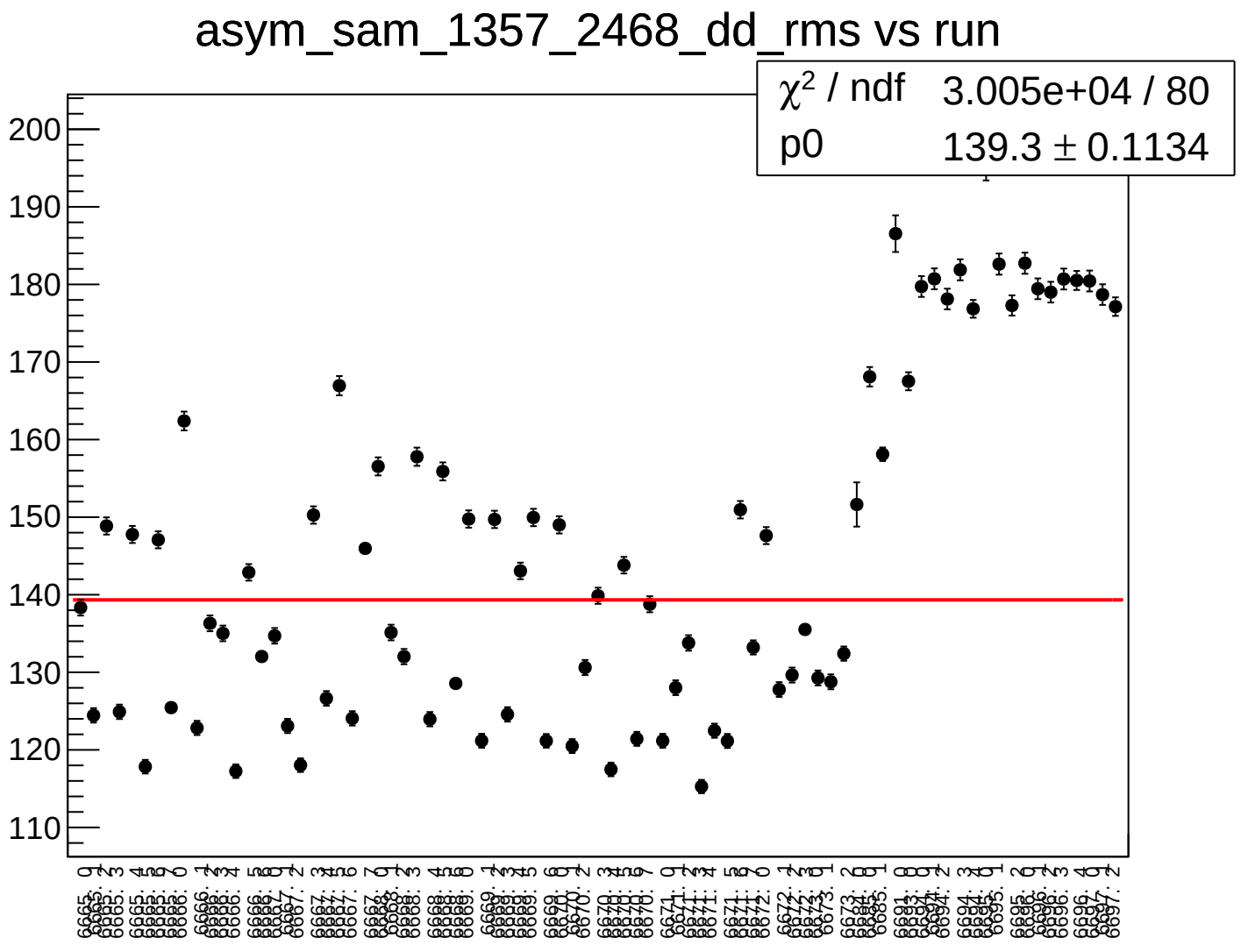

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 70.47 / 80
p0 117.3 ± 158.9
pull
Entries 81
Mean 102
Std Dev 20.89

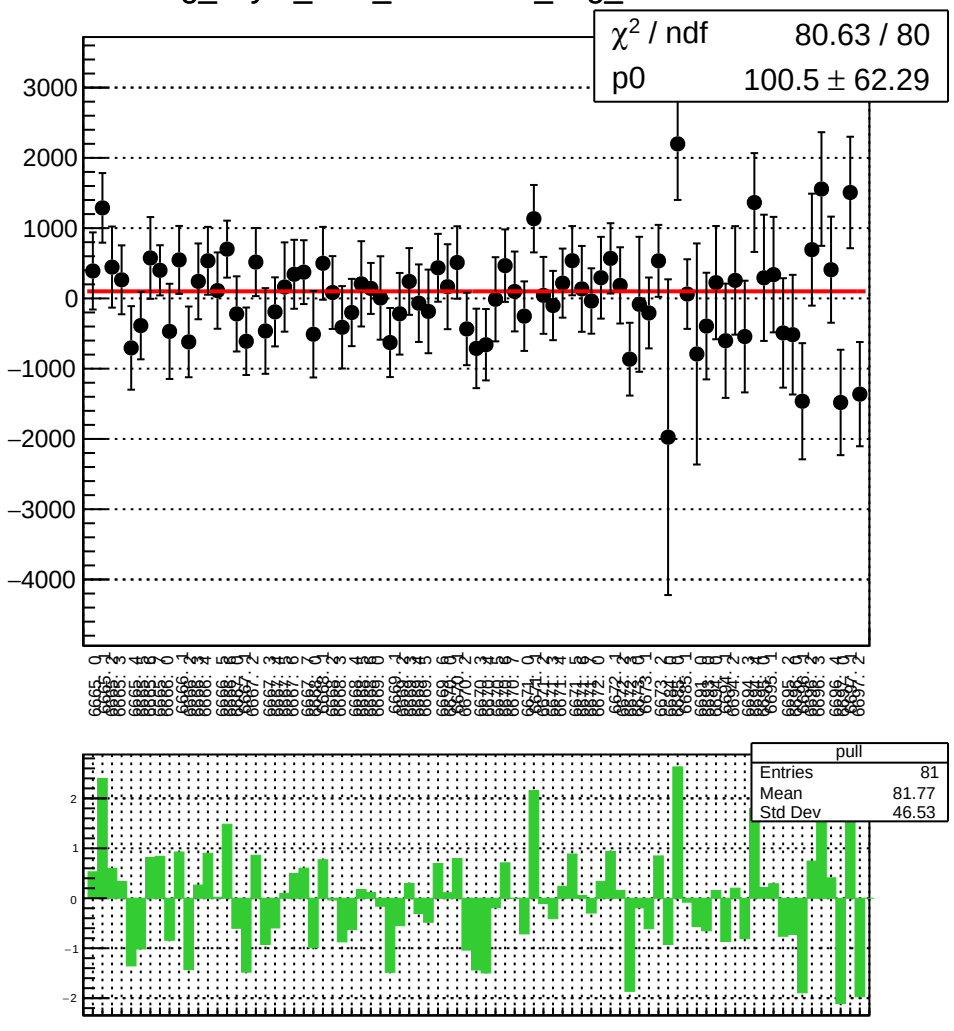

pull1D
Entries 81
Mean 0.01774
Std Dev 0.9325

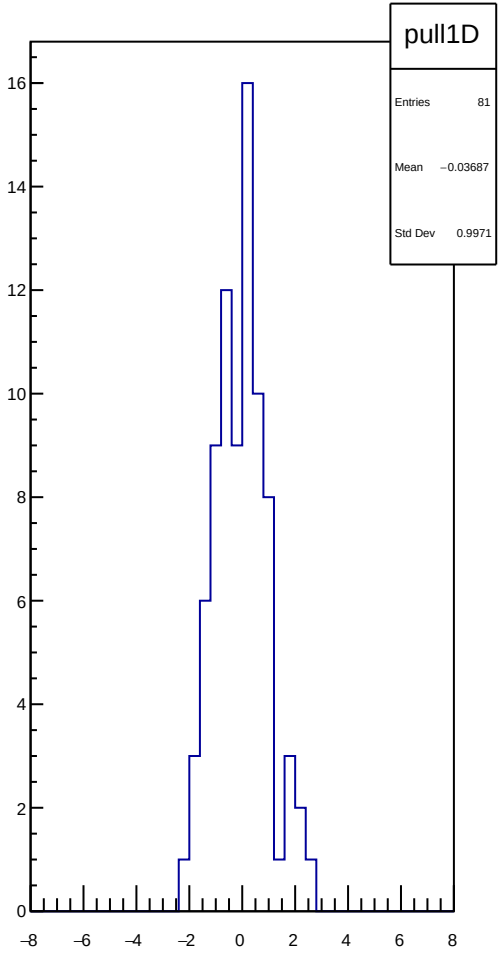

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 3.043e+04 / 80
p0 138.1 ± 0.1124
200
190
180
170
160
150
140
130
120
110

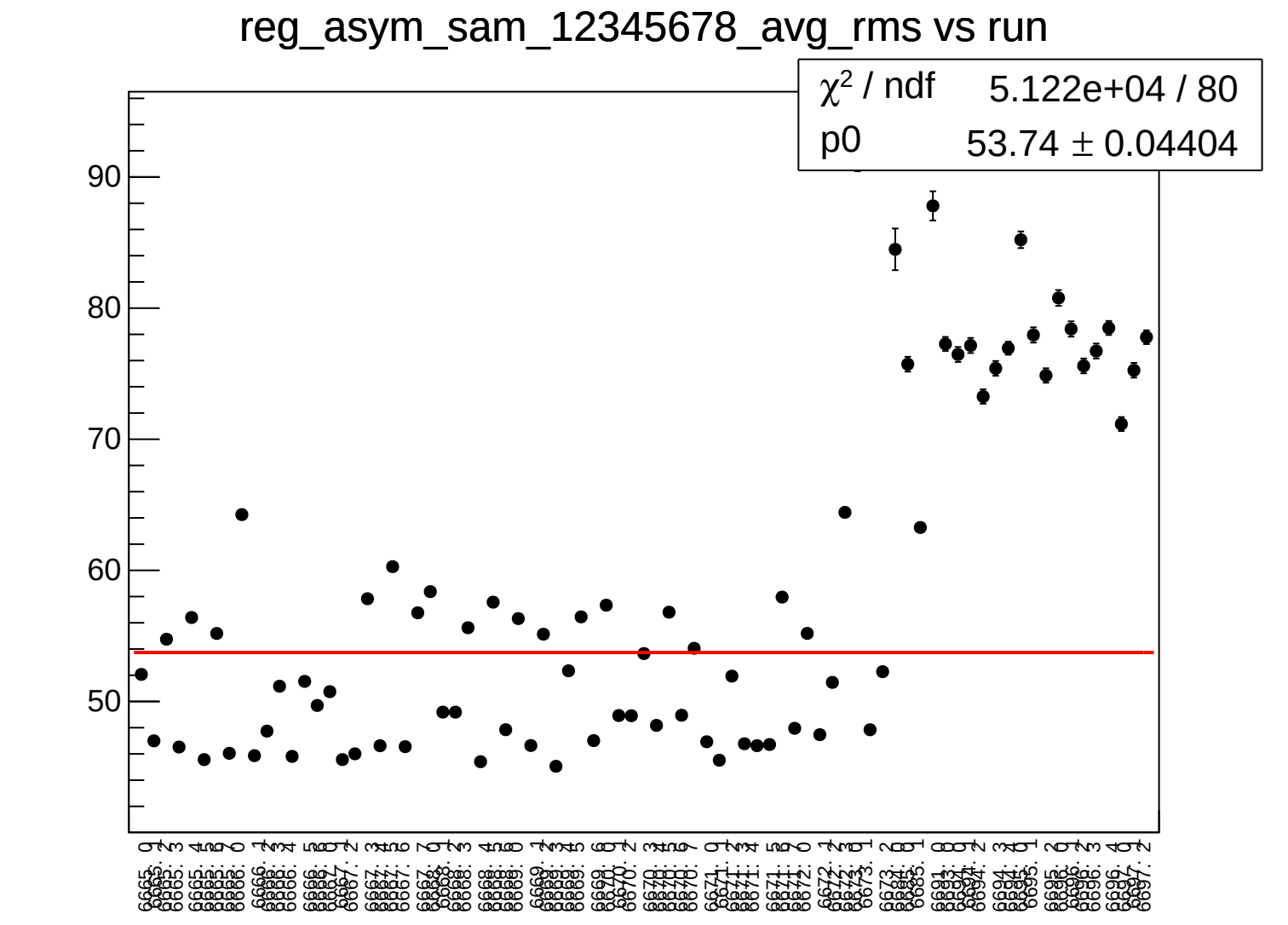

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 72.92 / 80
p0 −116.6 ± 160.4
pull
Entries 81
Mean 124.4
Std Dev 48.58

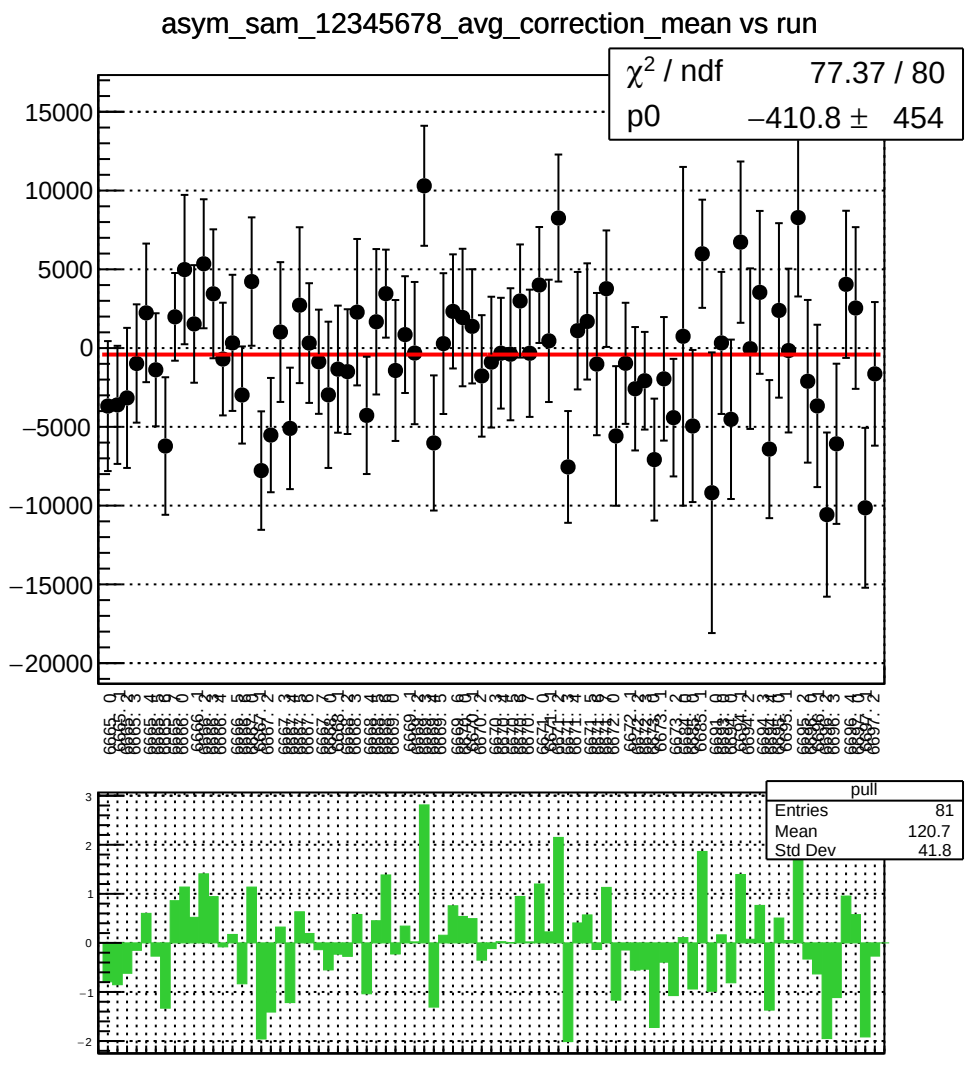

pull1D
Entries 81
Mean −0.01585
Std Dev 0.9487

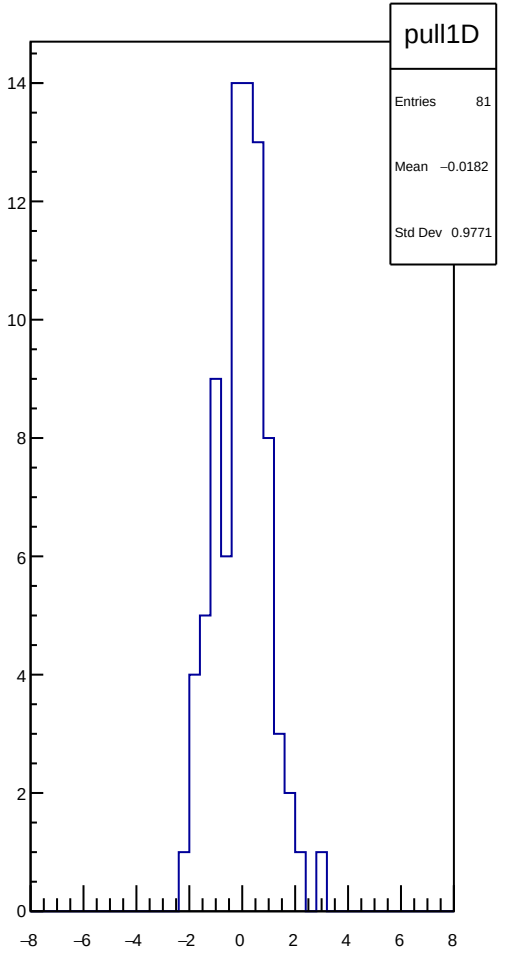

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 3.005e+04 / 80
p0 139.3 ± 0.1134
200
190
180
170
160
150
140
130
120
110

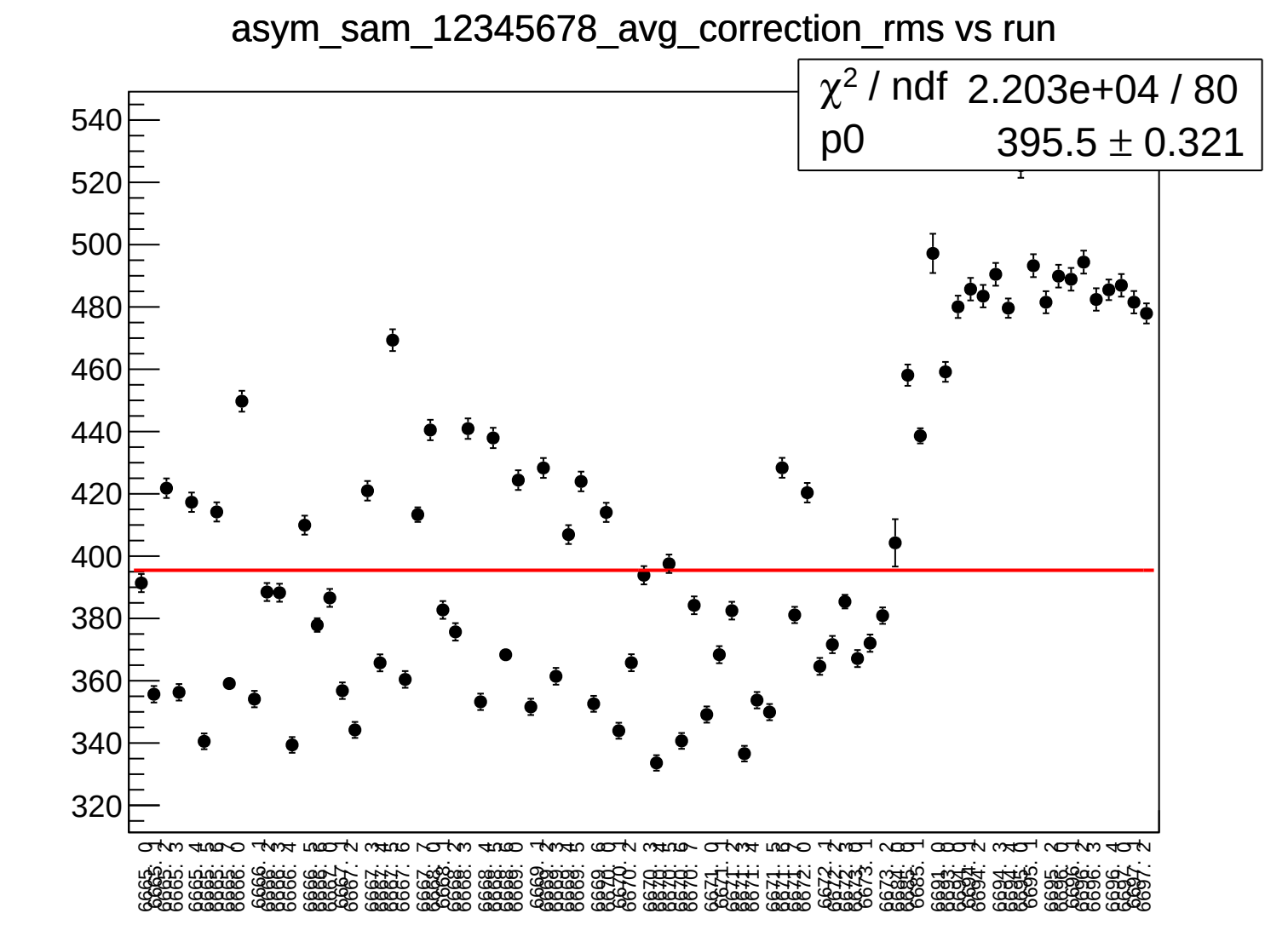

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 80.63 / 80
p0 100.5 ± 62.29
pull
Entries 81
Mean 81.77
Std Dev 46.53

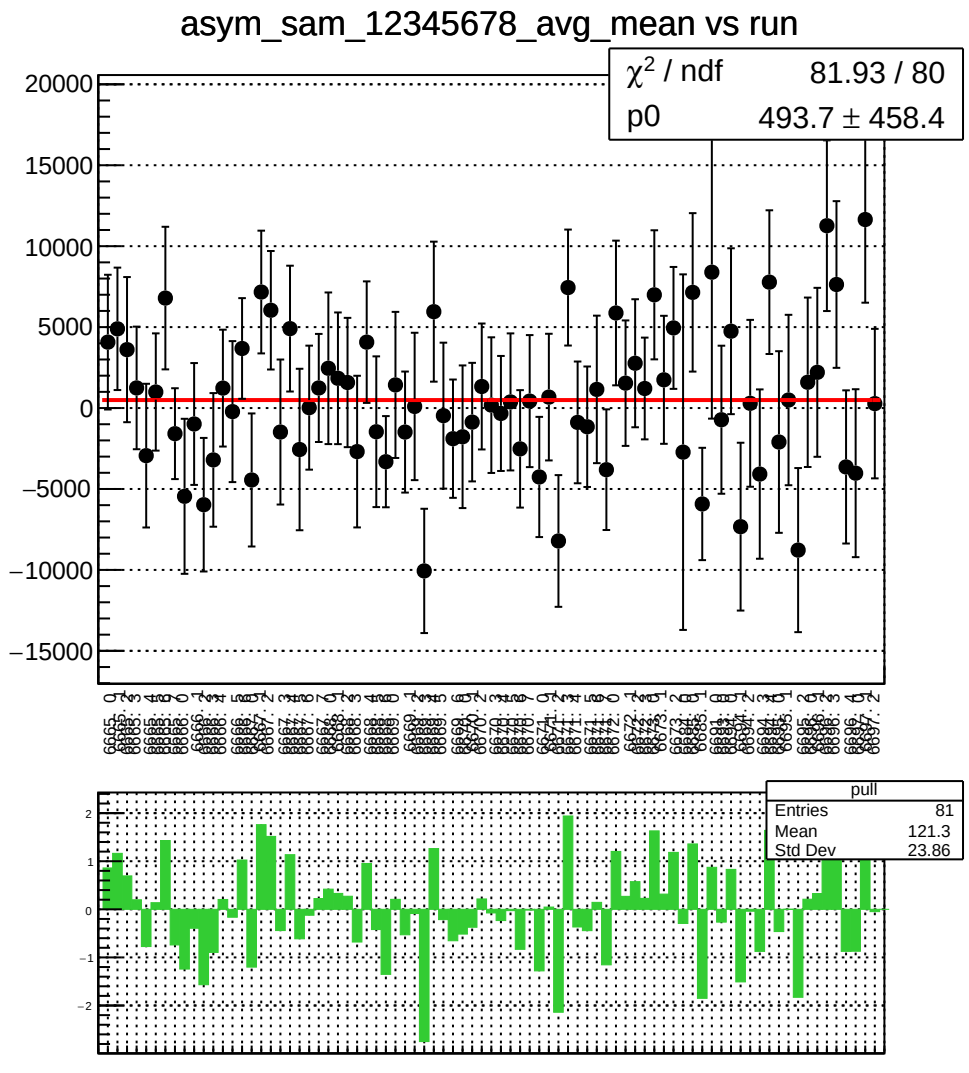

pull1D
Entries 81
Mean −0.03687
Std Dev 0.9971

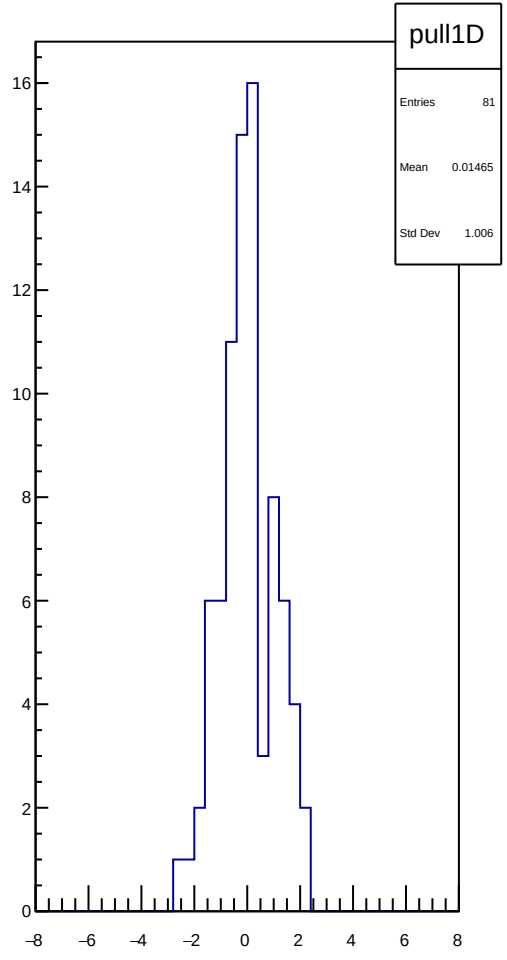

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.122e+04 / 80
p0 53.74 ± 0.04404
90
80
70
60
50

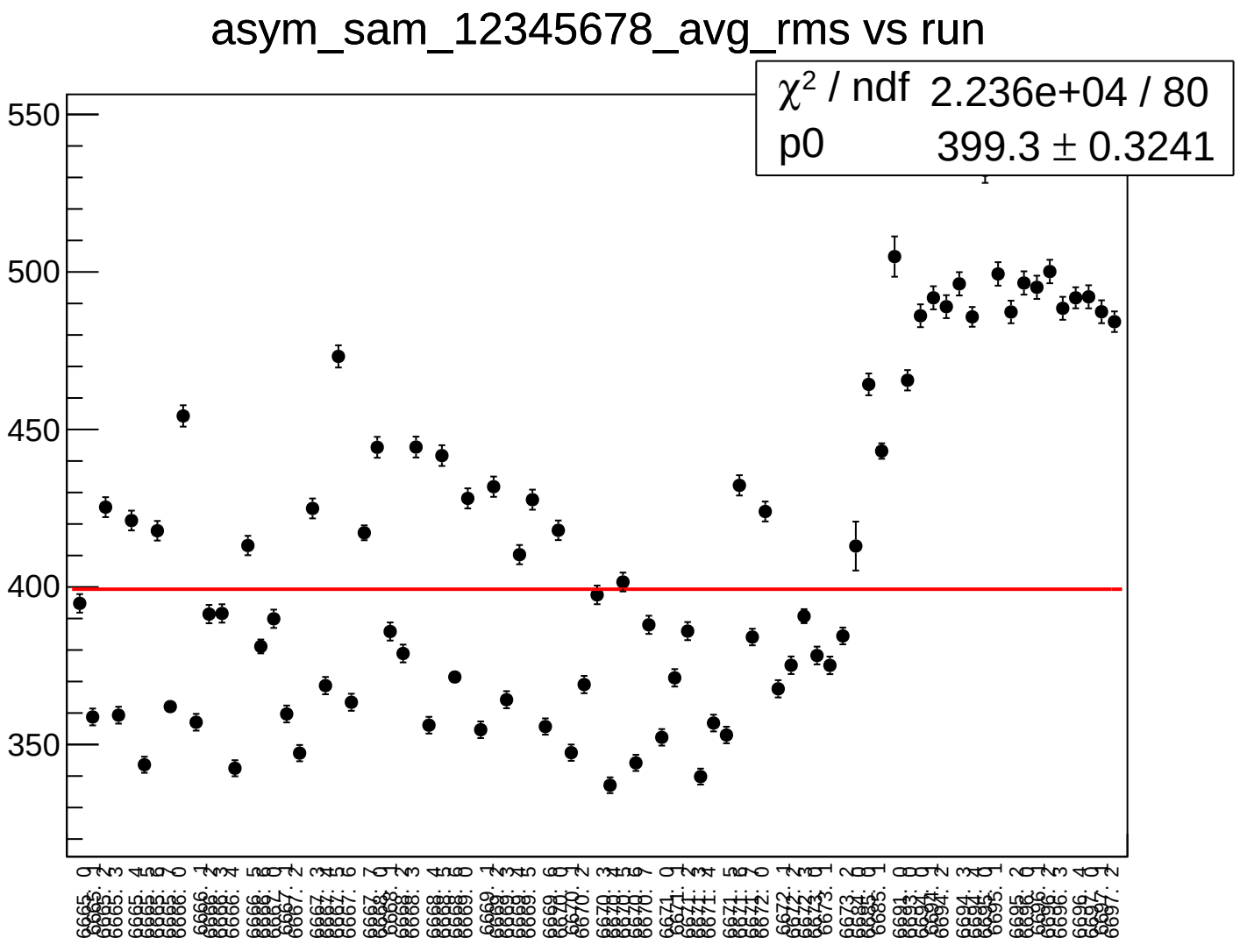

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 77.37 / 80
p0 −410.8 ± 454
pull
Entries 81
Mean 120.7
Std Dev 41.8

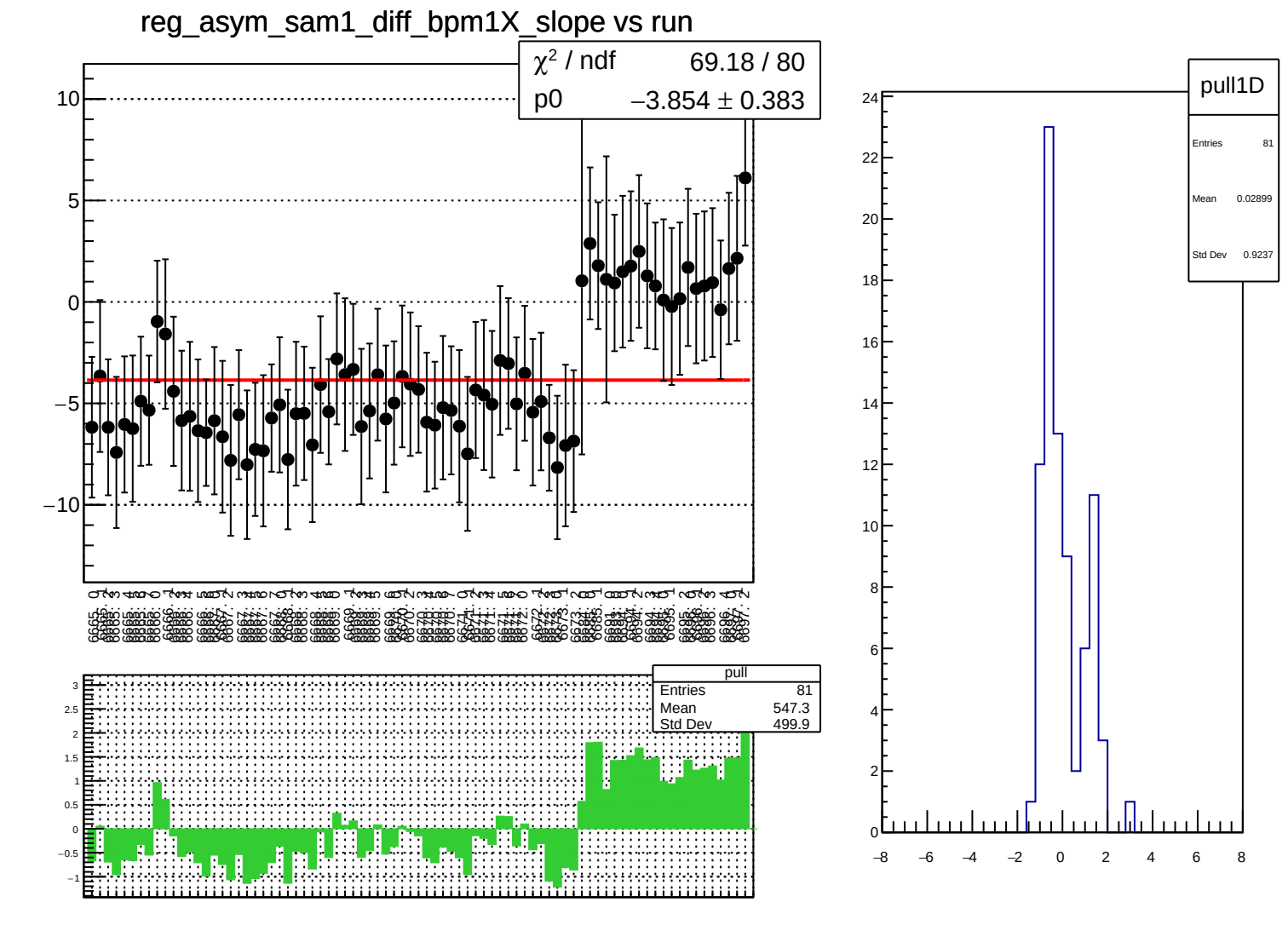

pull1D
Entries 81
Mean −0.0182
Std Dev 0.9771

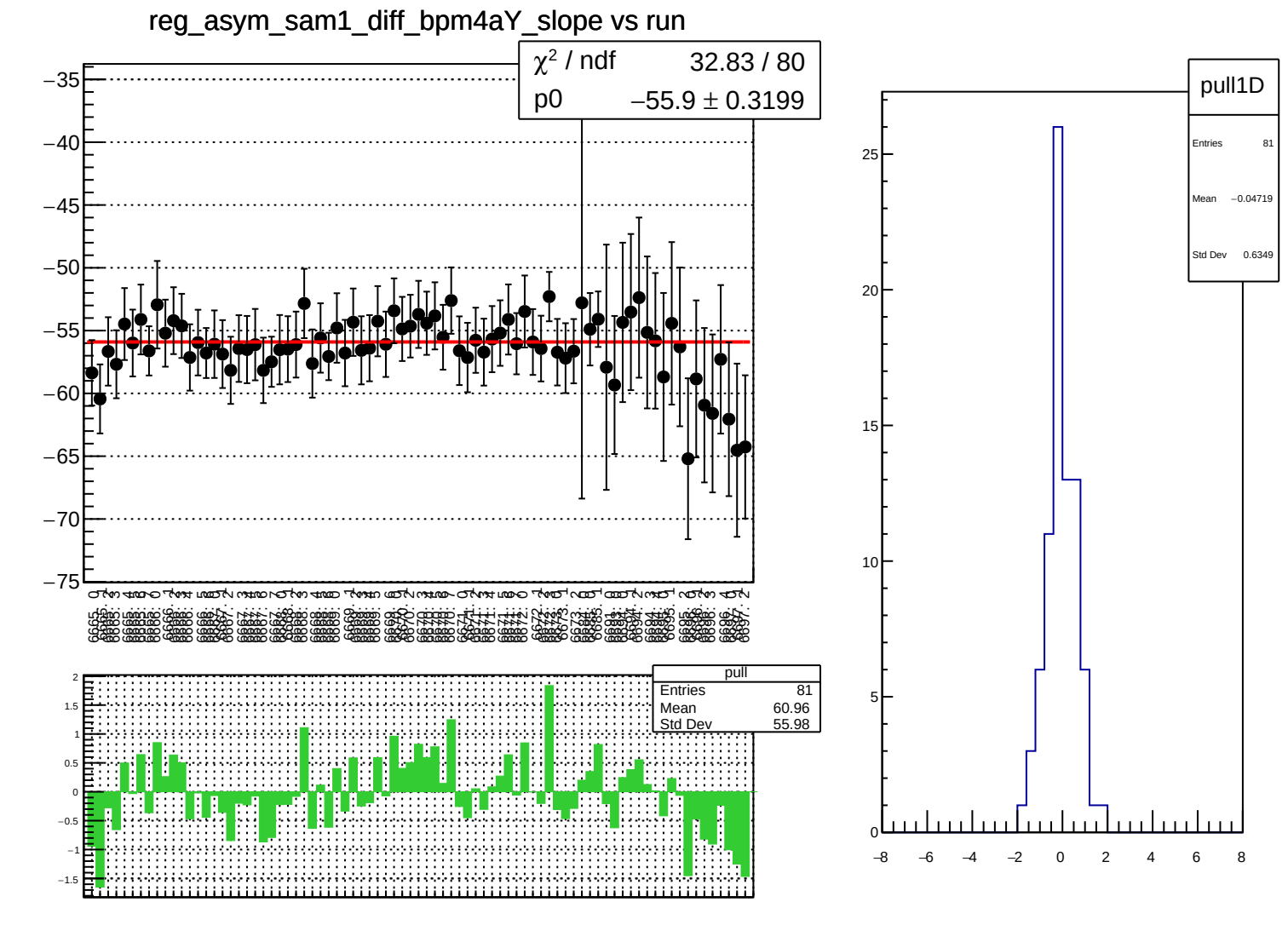

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.203e+04 / 80
p0 395.5 ± 0.321
540
520
500
480
460
440
420
400
380
360
340
320

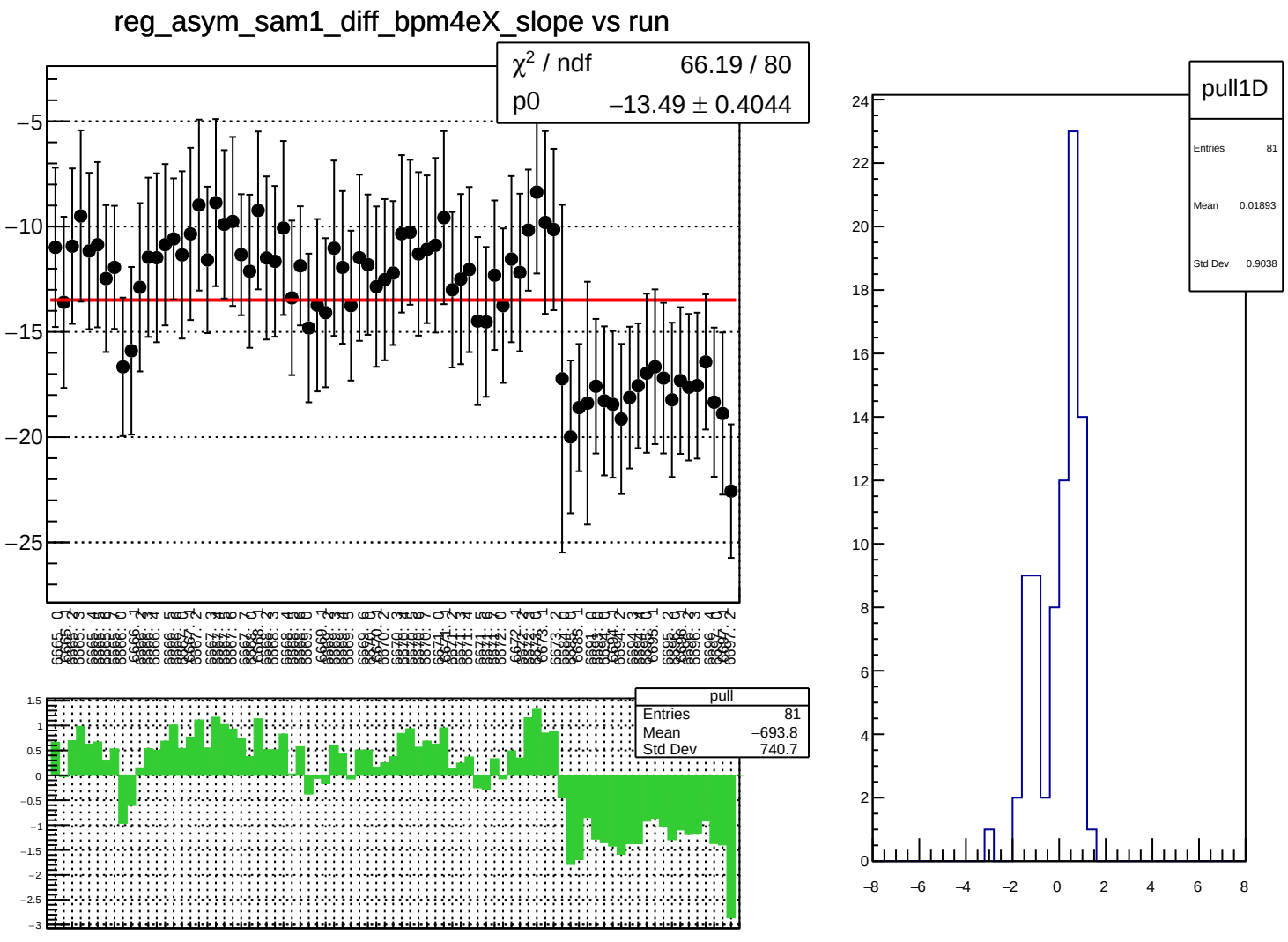

asym_sam_12345678_avg_mean vs run
χ² / ndf 81.93 / 80
p0 493.7 ± 458.4
20000
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 121.3
Std Dev 23.86
2
1
0
−1
−2

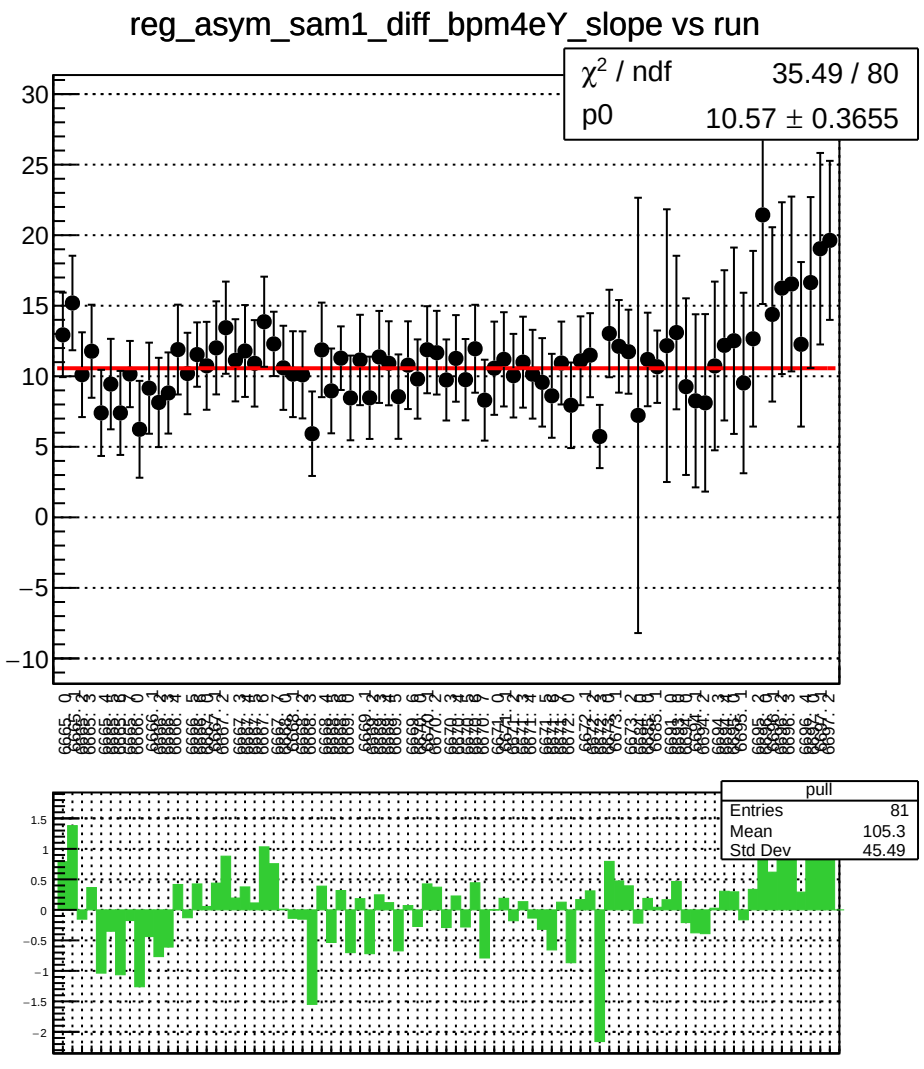

pull1D
Entries 81
Mean 0.01465
Std Dev 1.006
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

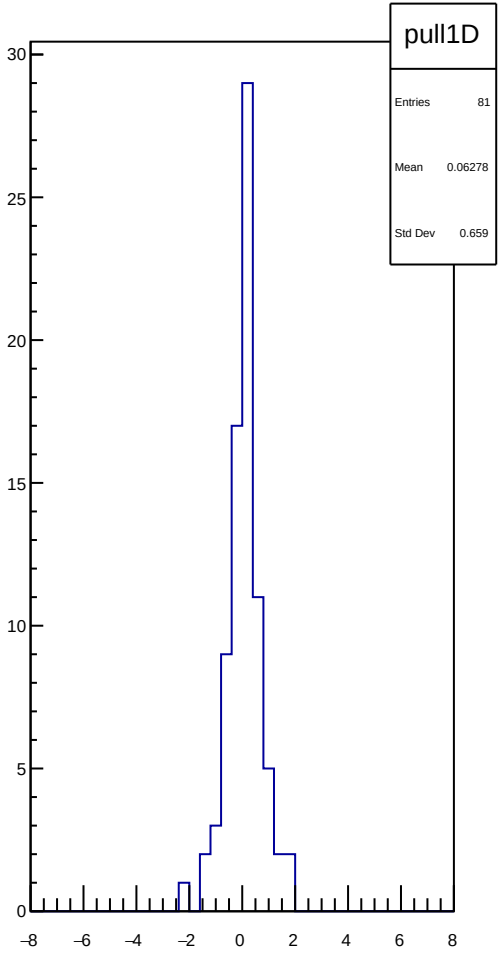

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.236e+04 / 80
p0 399.3 ± 0.3241
550
500
450
400
350

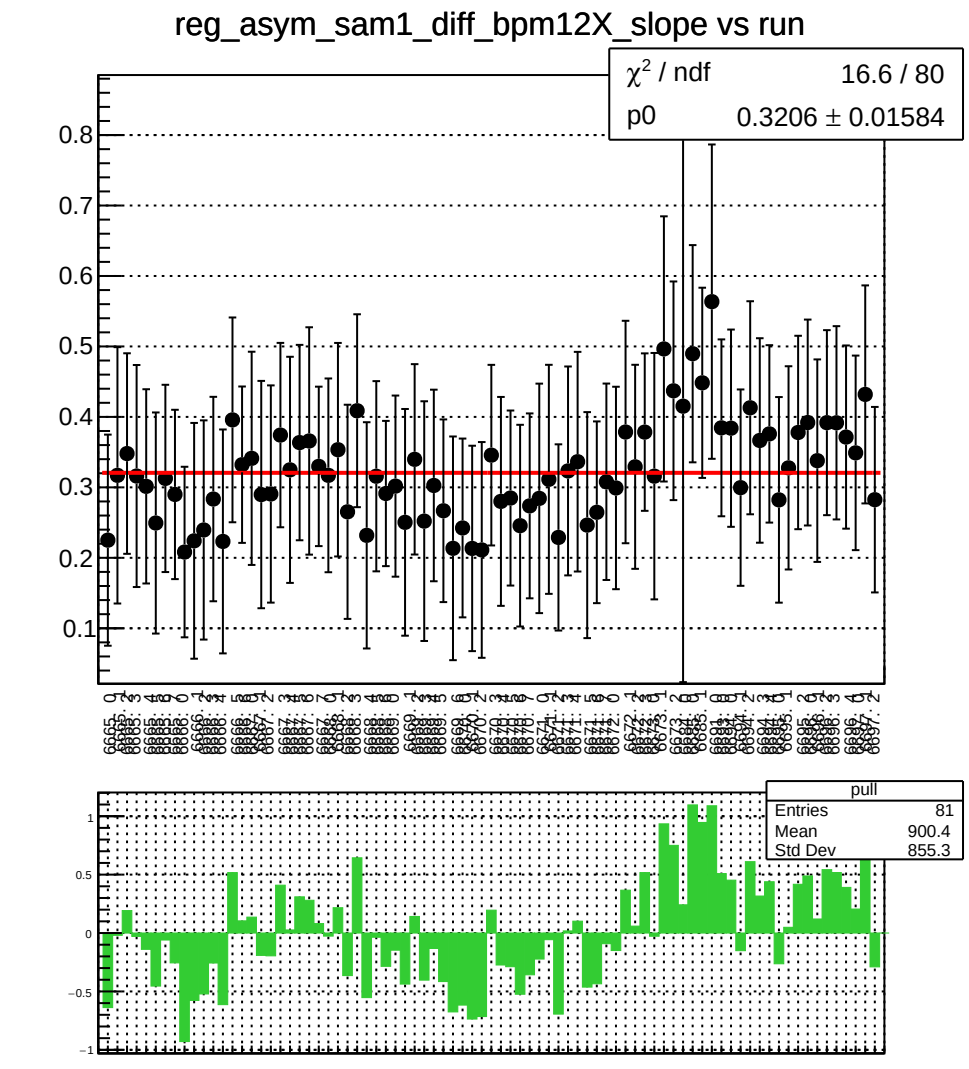

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 69.18 / 80
p0 −3.854 ± 0.383
pull
Entries 81
Mean 547.3
Std Dev 499.9
pull1D
Entries 81
Mean 0.02899
Std Dev 0.9237

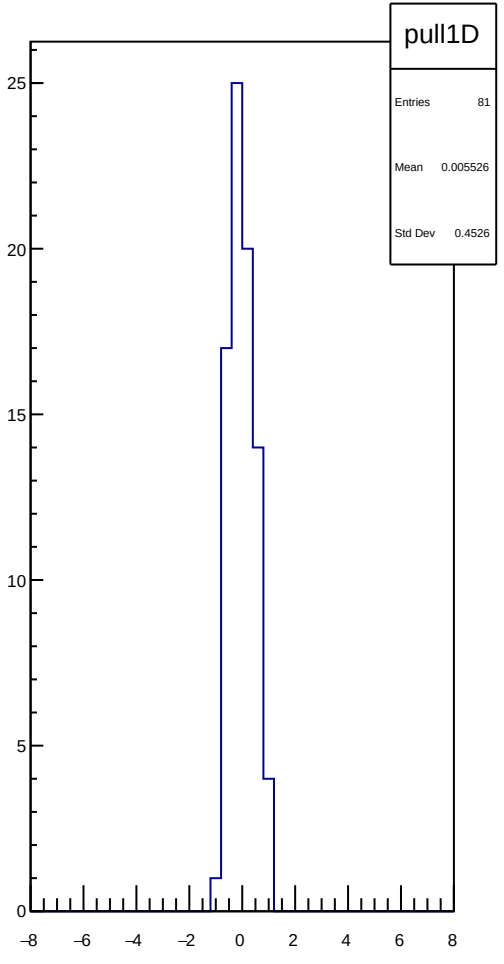

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 32.83 / 80
p0 −55.9 ± 0.3199
pull
Entries 81
Mean 60.96
Std Dev 55.98
pull1D
Entries 81
Mean −0.04719
Std Dev 0.6349

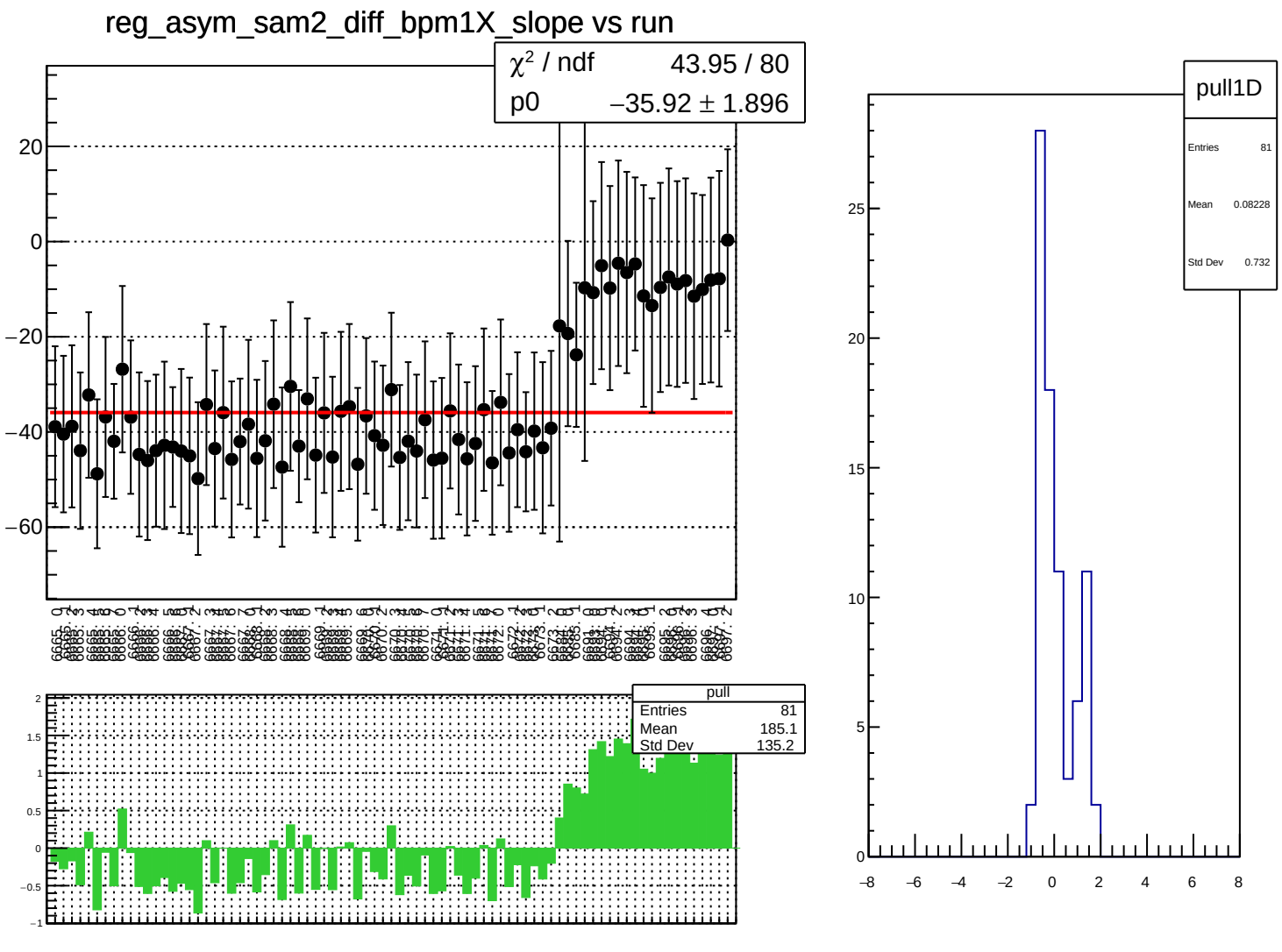

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 66.19 / 80
p0 −13.49 ± 0.4044
pull
Entries 81
Mean −693.8
Std Dev 740.7
pull1D
Entries 81
Mean 0.01893
Std Dev 0.9038

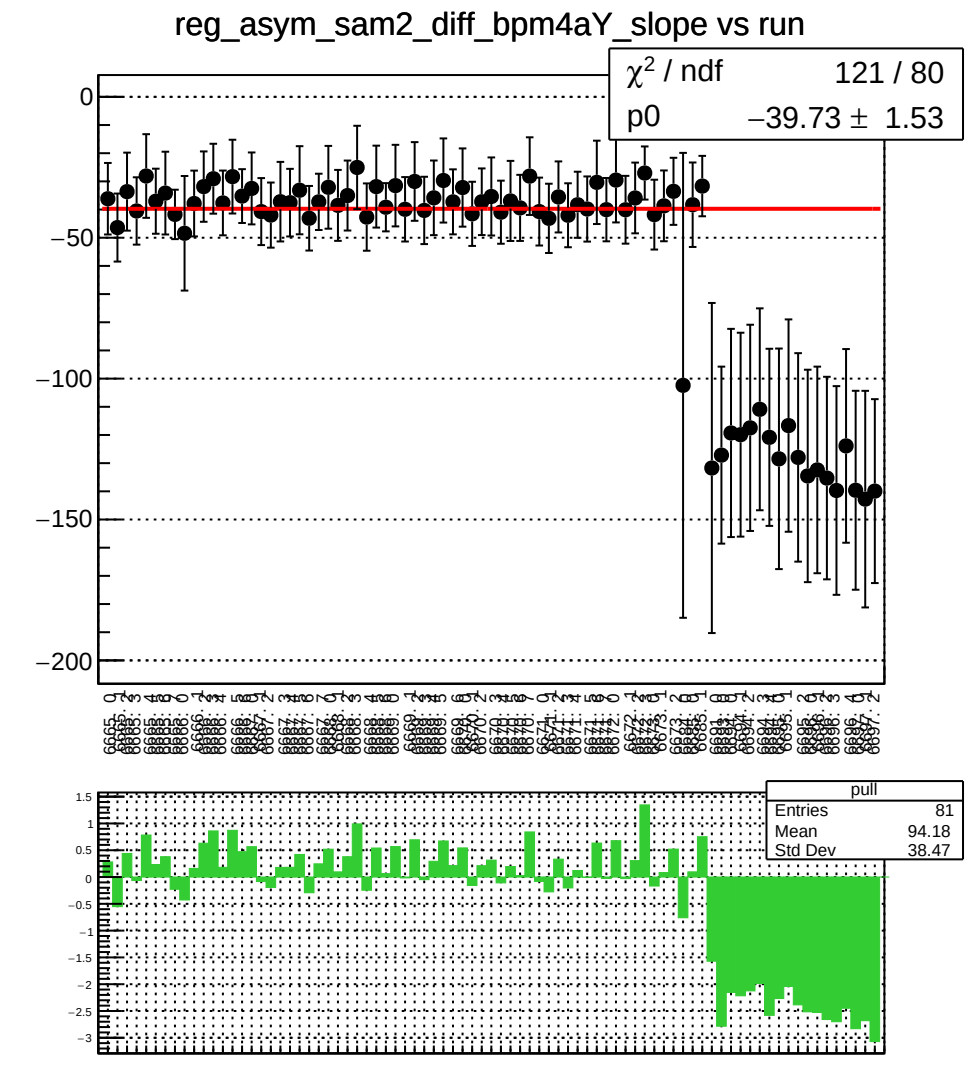

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 35.49 / 80
p0 10.57 ± 0.3655
pull
Entries 81
Mean 105.3
Std Dev 45.49

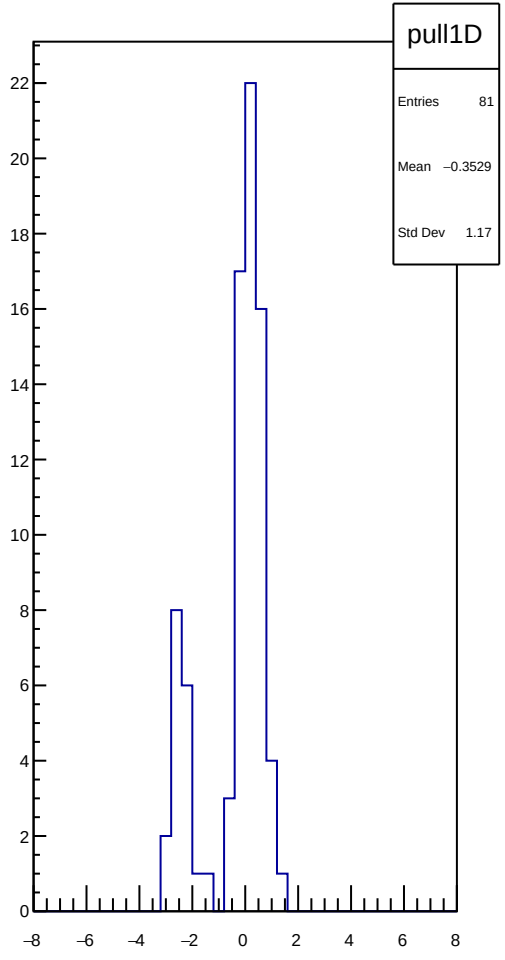

pull1D
Entries 81
Mean 0.06278
Std Dev 0.659

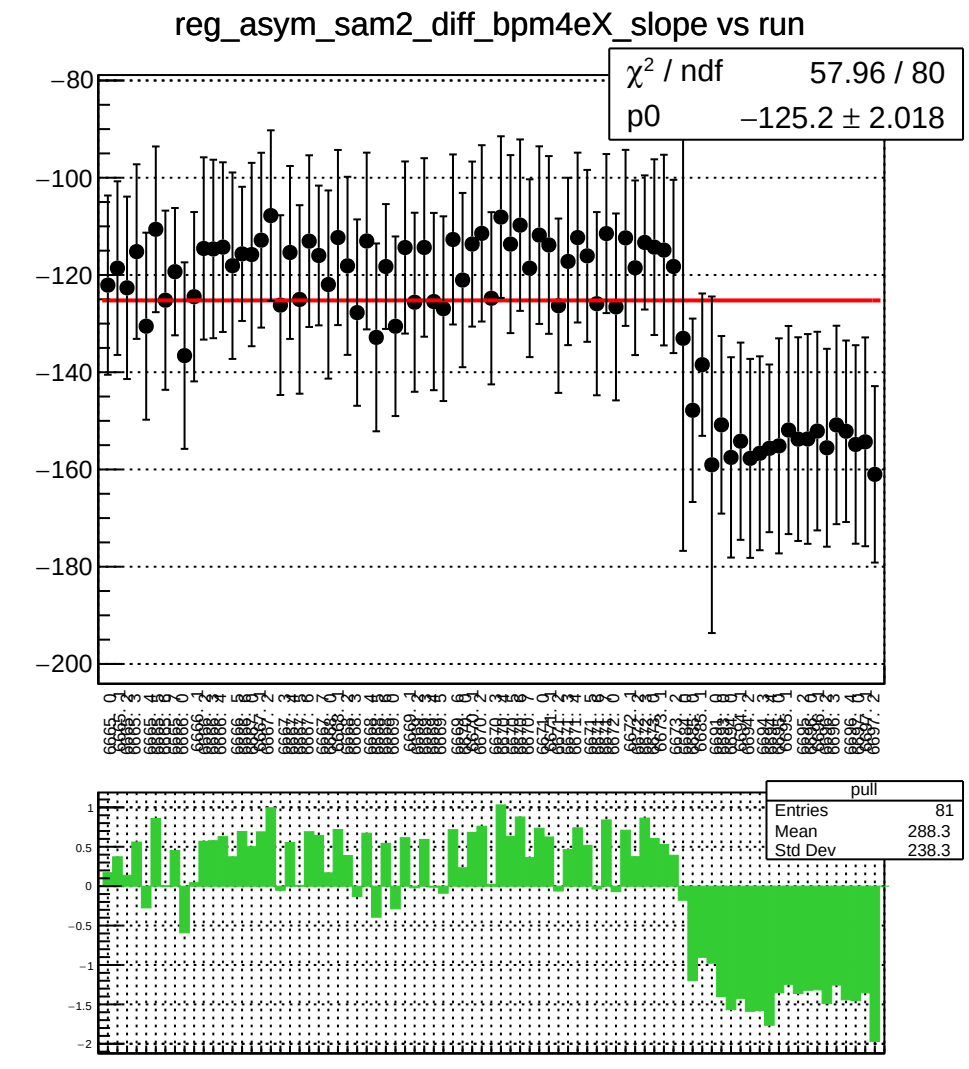

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 16.6 / 80
p0 0.3206 ± 0.01584
pull
Entries 81
Mean 900.4
Std Dev 855.3

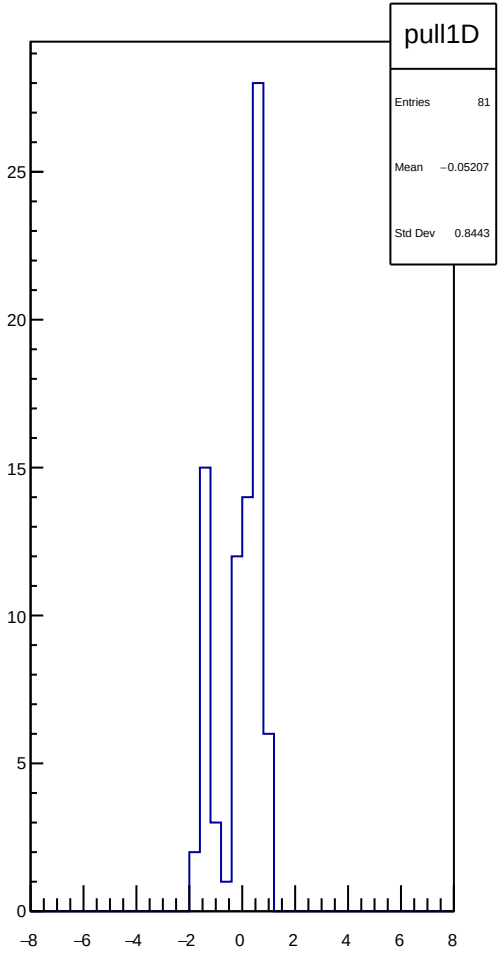

pull1D
Entries 81
Mean 0.005526
Std Dev 0.4526

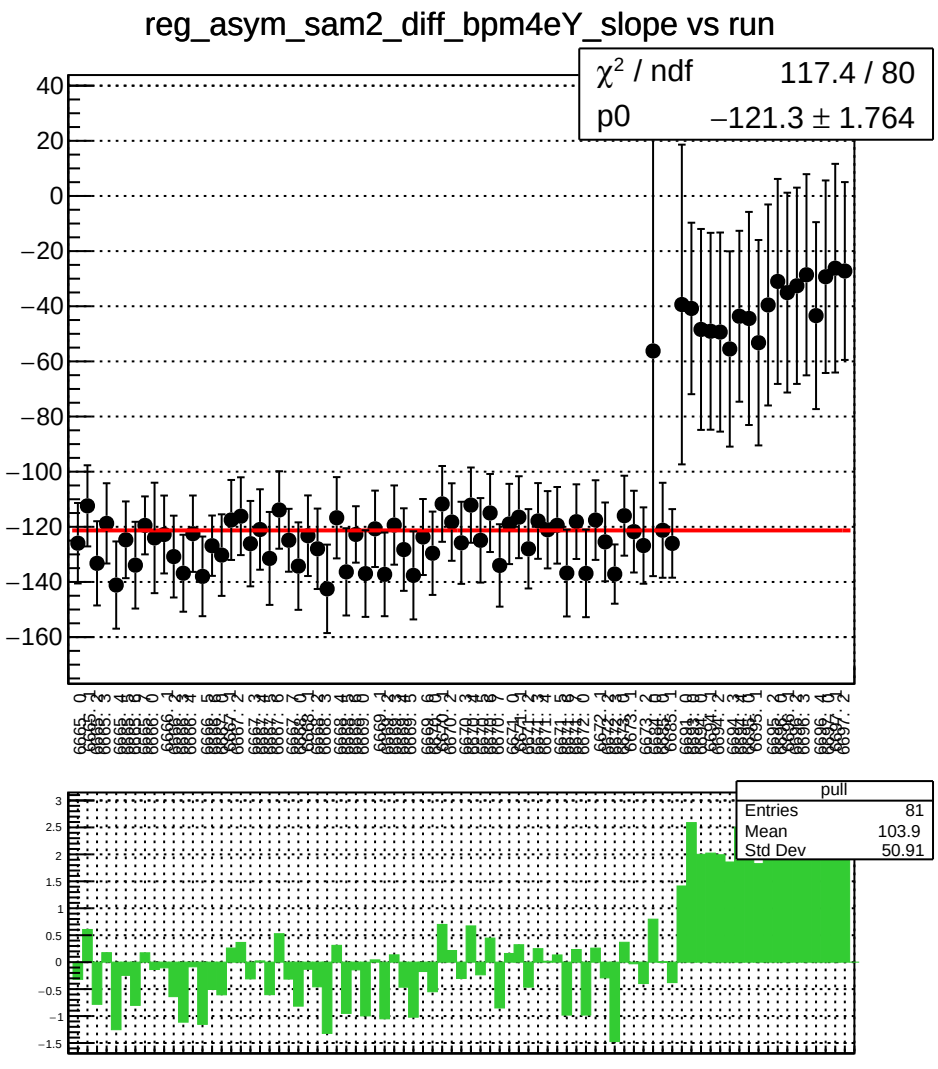

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 43.95 / 80
p0 −35.92 ± 1.896
pull
Entries 81
Mean 185.1
Std Dev 135.2
pull1D
Entries 81
Mean 0.08228
Std Dev 0.732

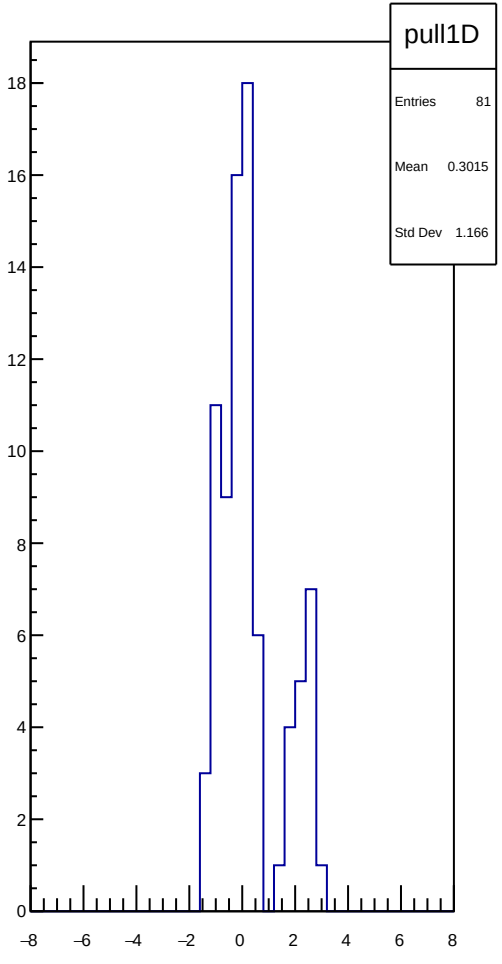

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 121 / 80
p0 −39.73 ± 1.53
0
−50
−100
−150
−200
pull
Entries 81
Mean 94.18
Std Dev 38.47
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3

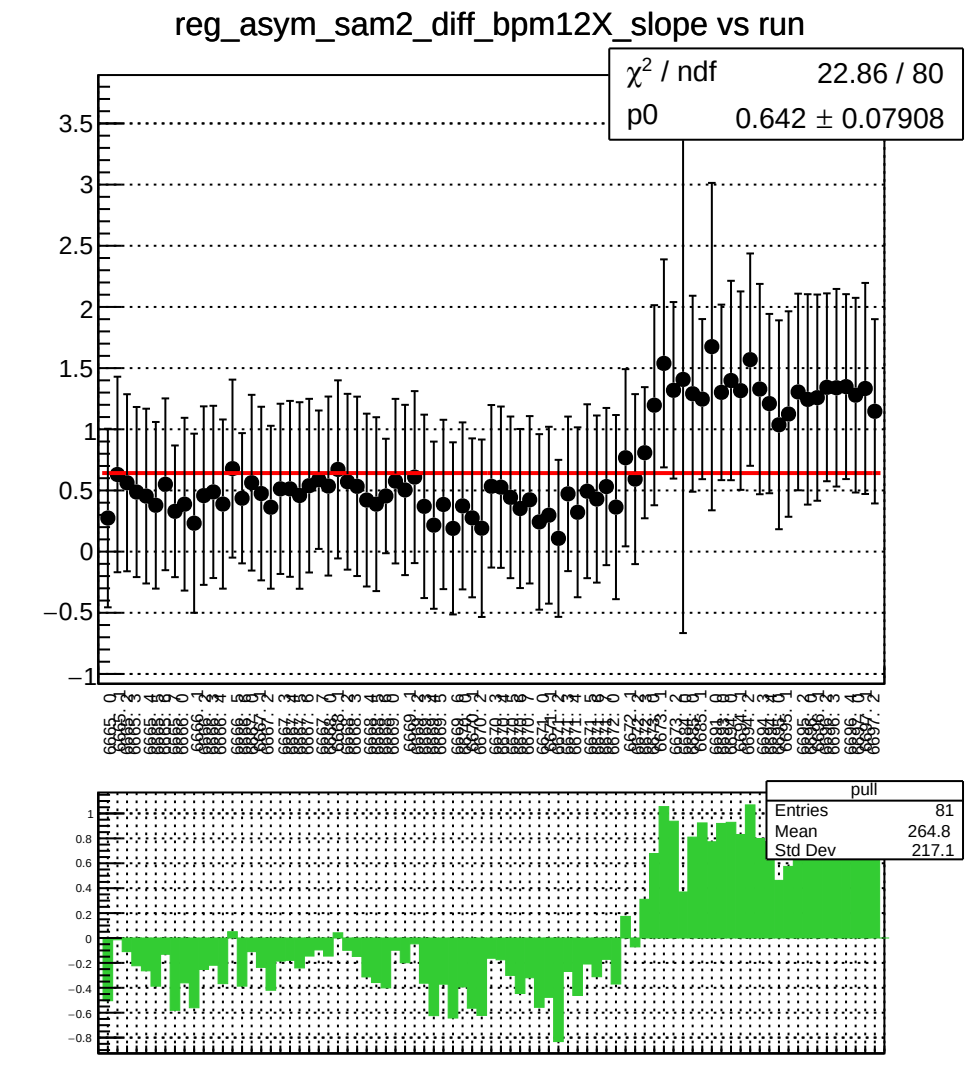

pull1D
Entries 81
Mean −0.3529
Std Dev 1.17
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

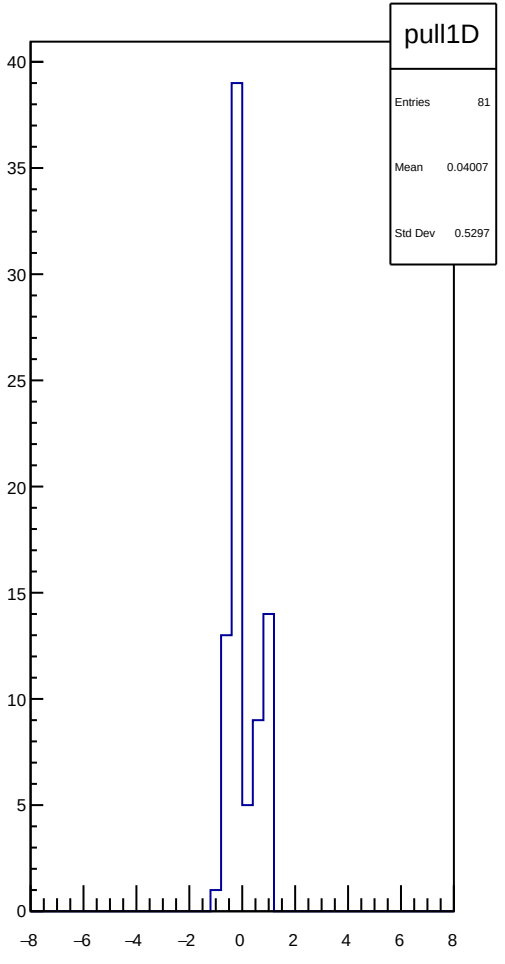

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 57.96 / 80
p0 −125.2 ± 2.018
pull
Entries 81
Mean 288.3
Std Dev 238.3

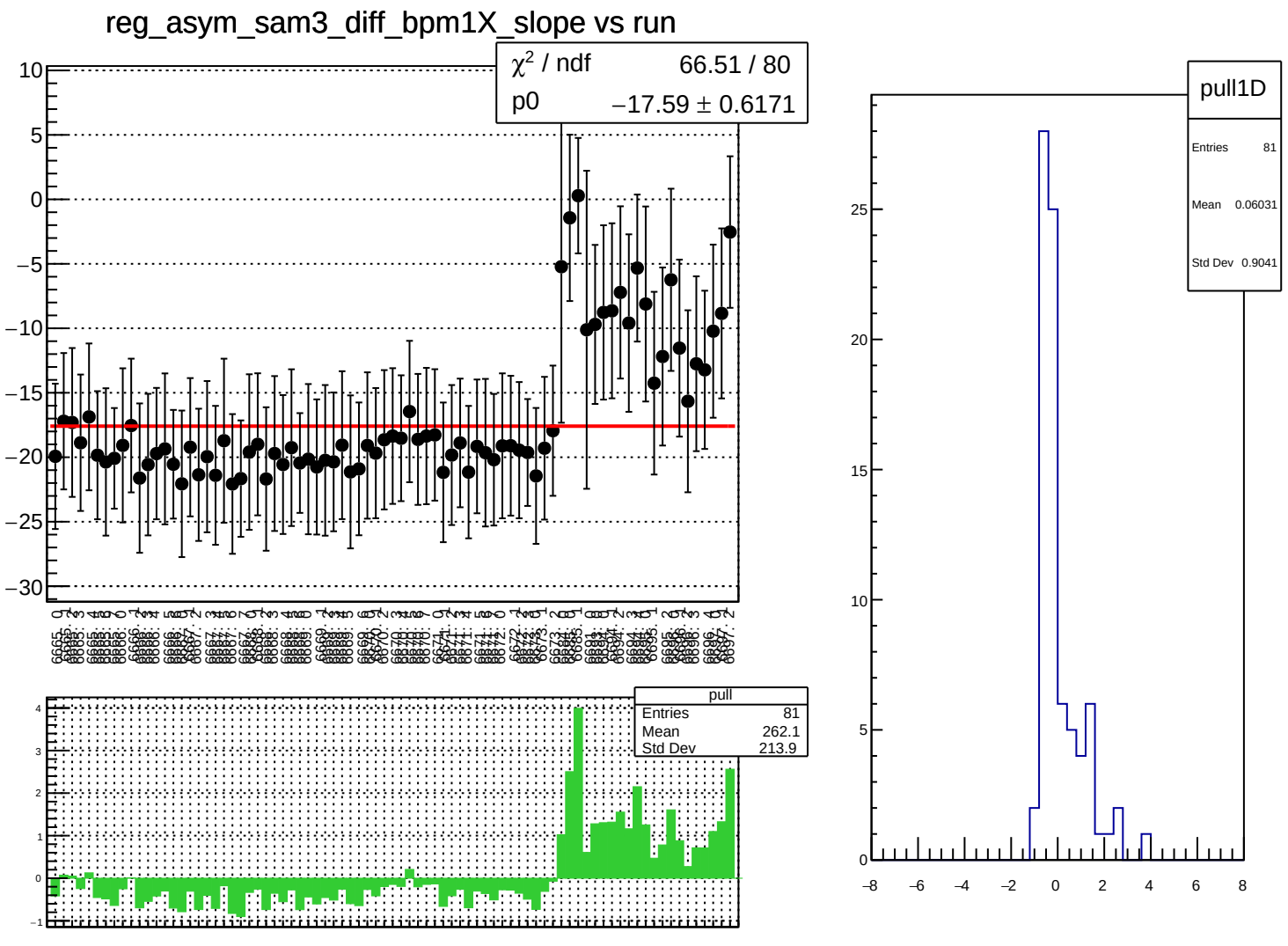

pull1D
Entries 81
Mean −0.05207
Std Dev 0.8443

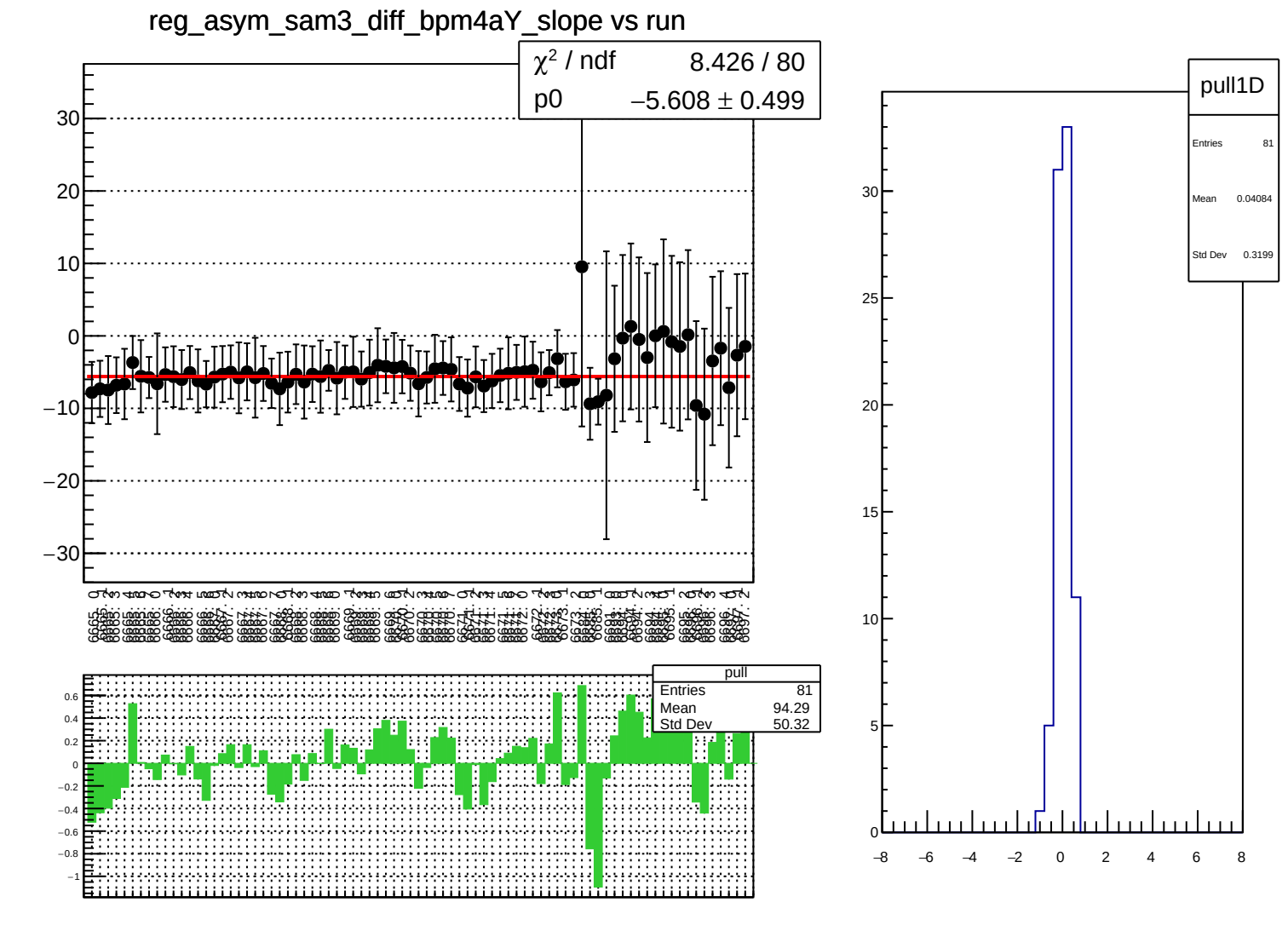

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 117.4 / 80
p0 −121.3 ± 1.764
pull
Entries 81
Mean 103.9
Std Dev 50.91

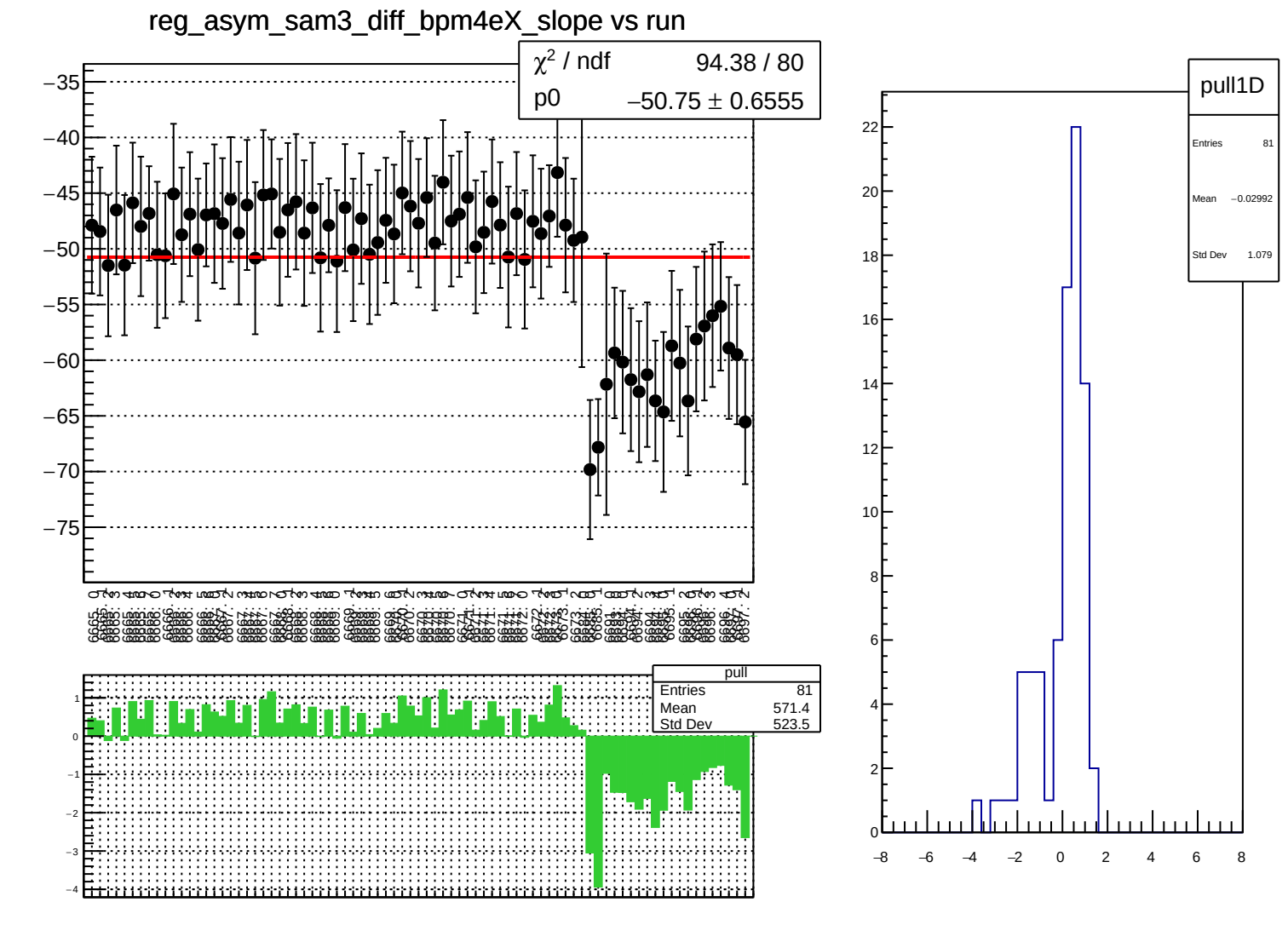

pull1D
Entries 81
Mean 0.3015
Std Dev 1.166

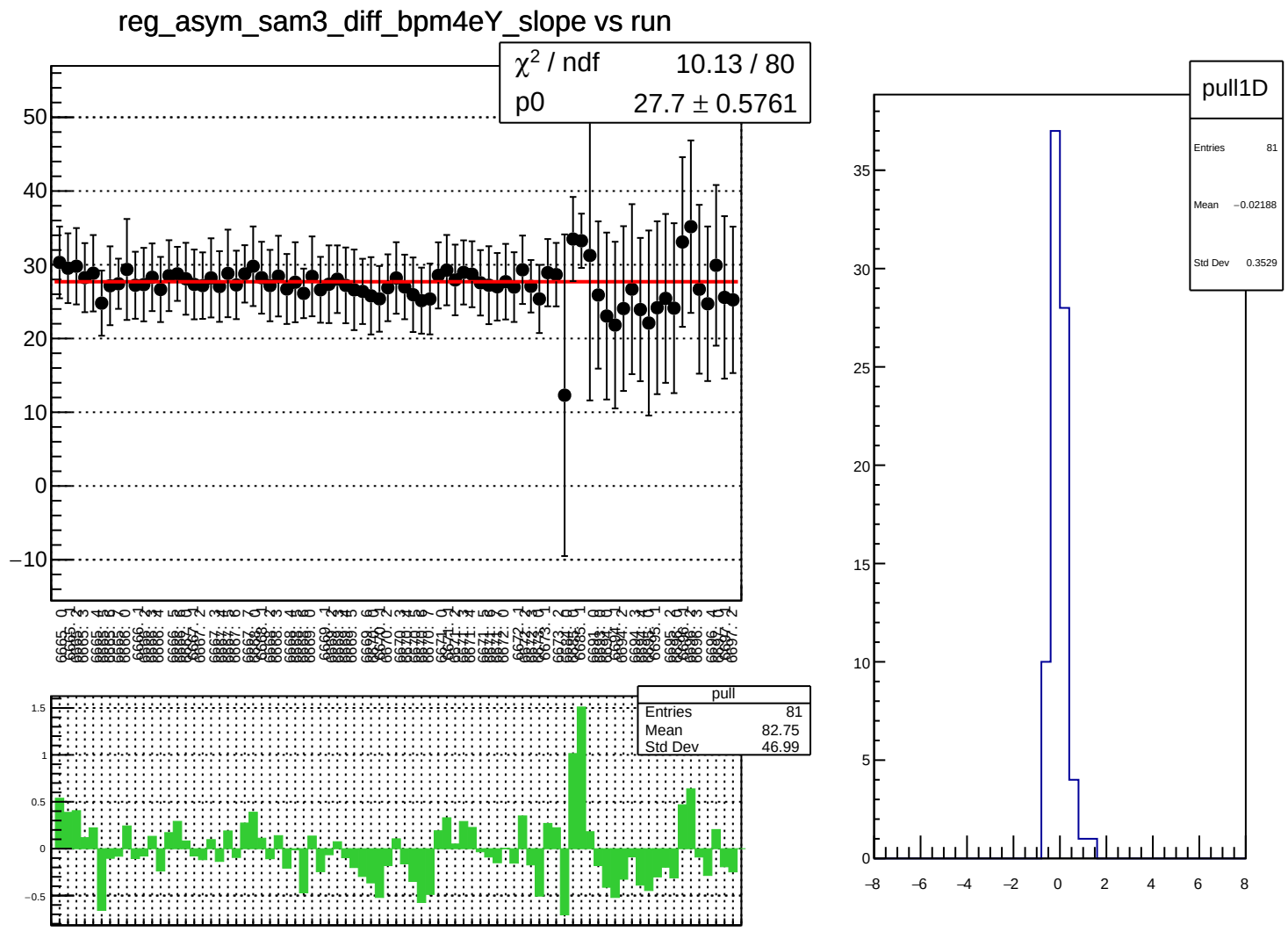

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 22.86 / 80
p0 0.642 ± 0.07908
pull
Entries 81
Mean 264.8
Std Dev 217.1

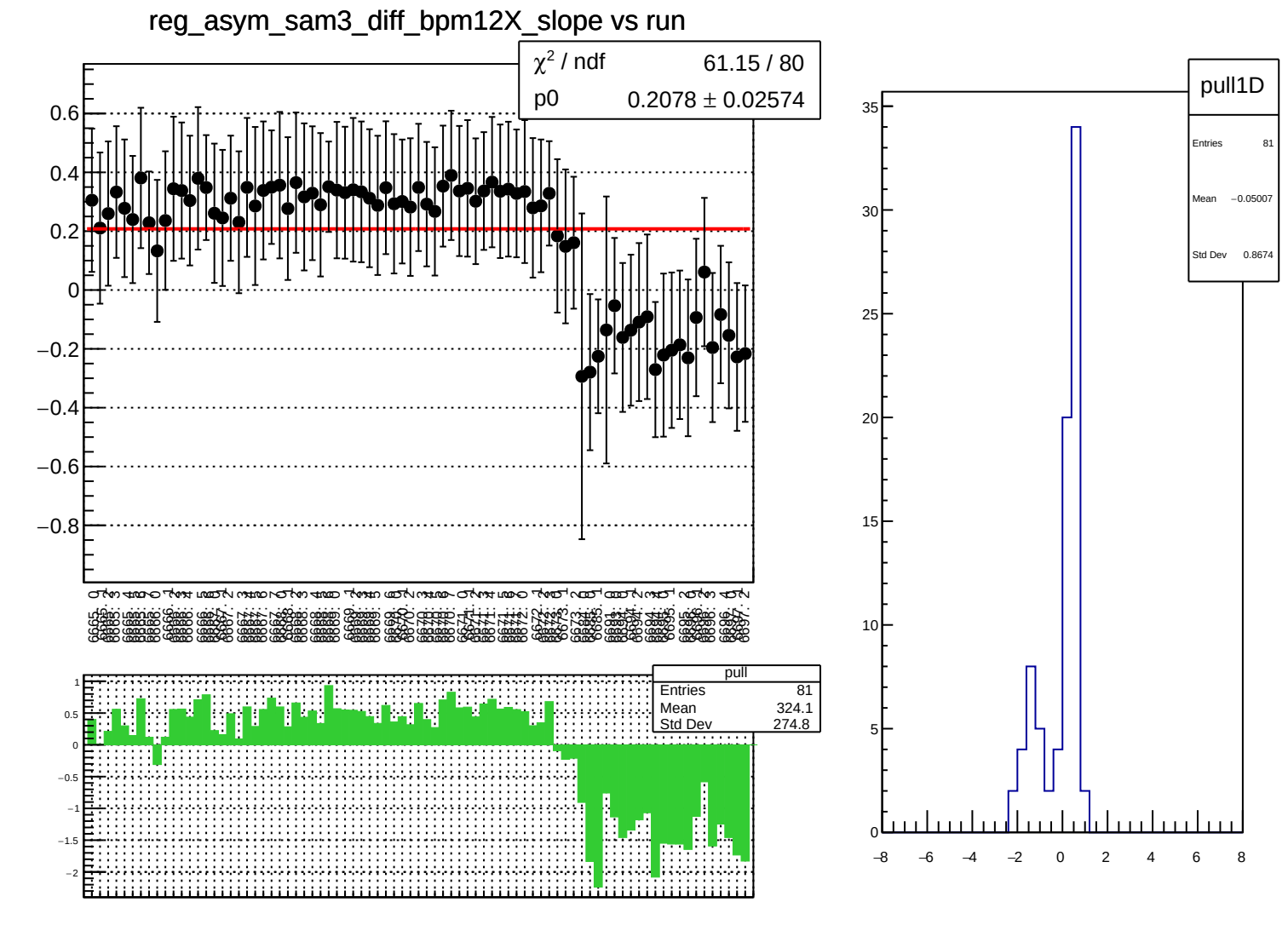

pull1D
Entries 81
Mean 0.04007
Std Dev 0.5297

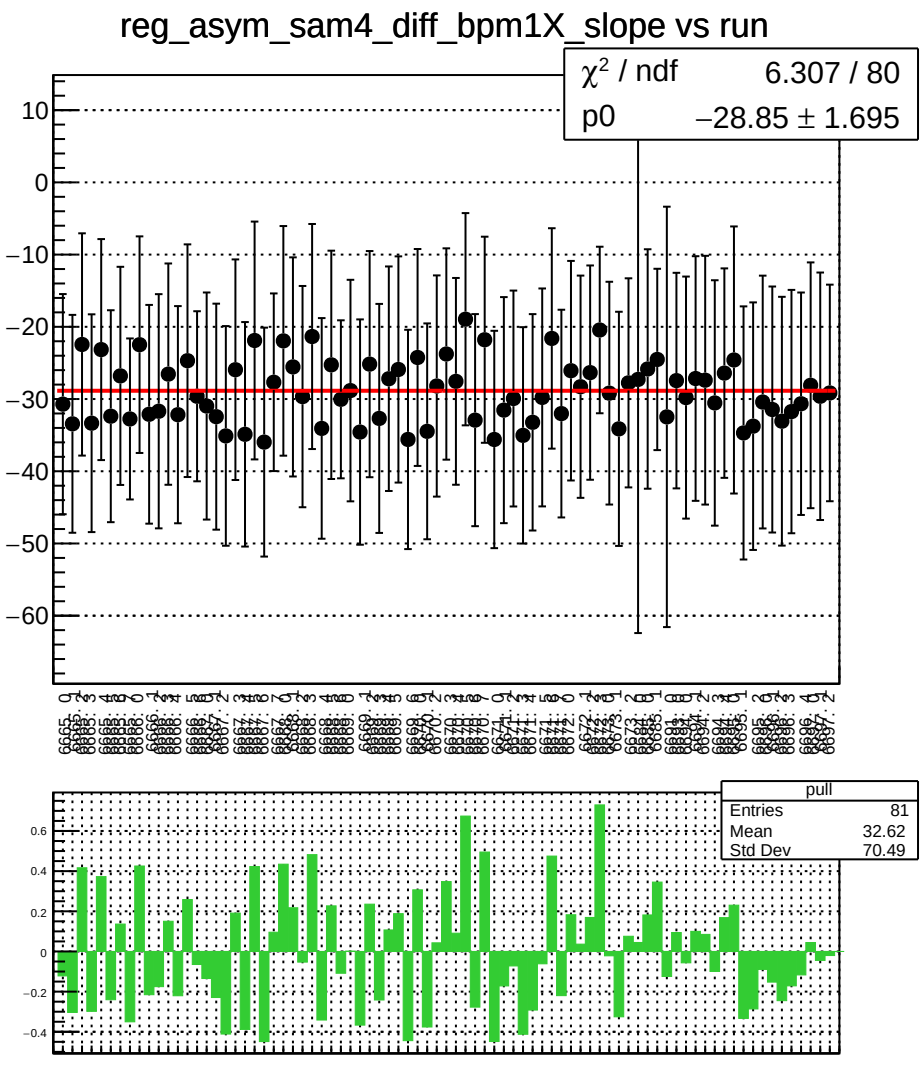

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 66.51 / 80
p0 −17.59 ± 0.6171
pull
Entries 81
Mean 262.1
Std Dev 213.9
pull1D
Entries 81
Mean 0.06031
Std Dev 0.9041

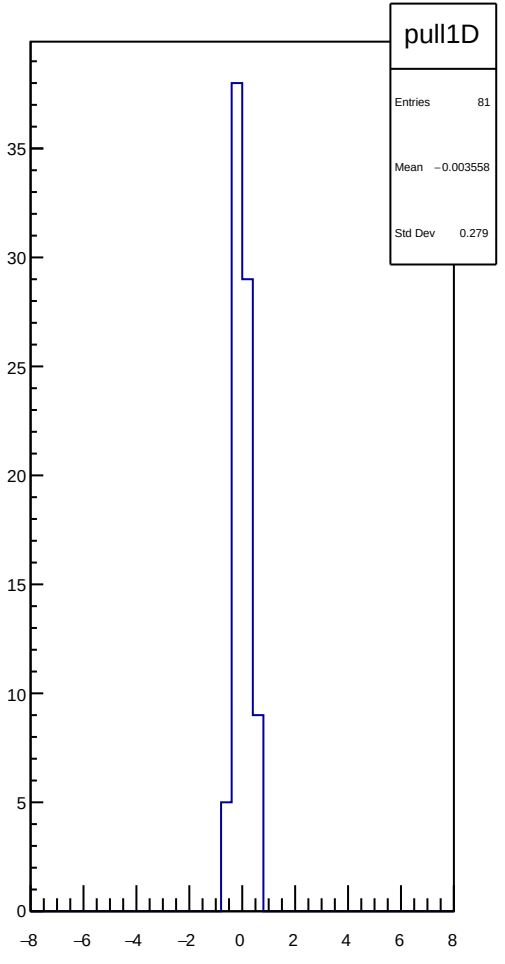

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 8.426 / 80
p0 −5.608 ± 0.499
pull
Entries 81
Mean 94.29
Std Dev 50.32
pull1D
Entries 81
Mean 0.04084
Std Dev 0.3199

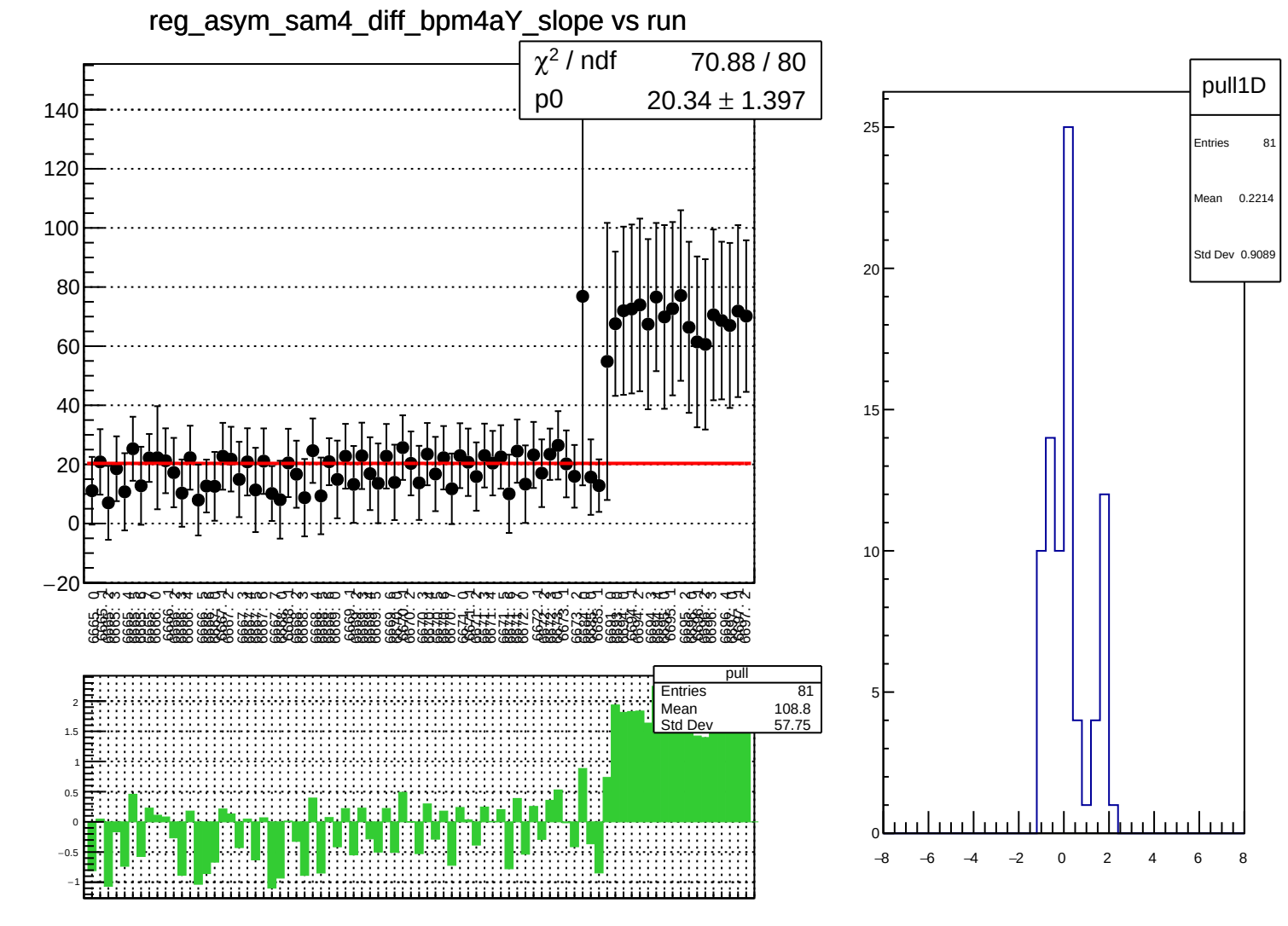

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 94.38 / 80
p0 −50.75 ± 0.6555
pull
Entries 81
Mean 571.4
Std Dev 523.5
pull1D
Entries 81
Mean −0.02992
Std Dev 1.079

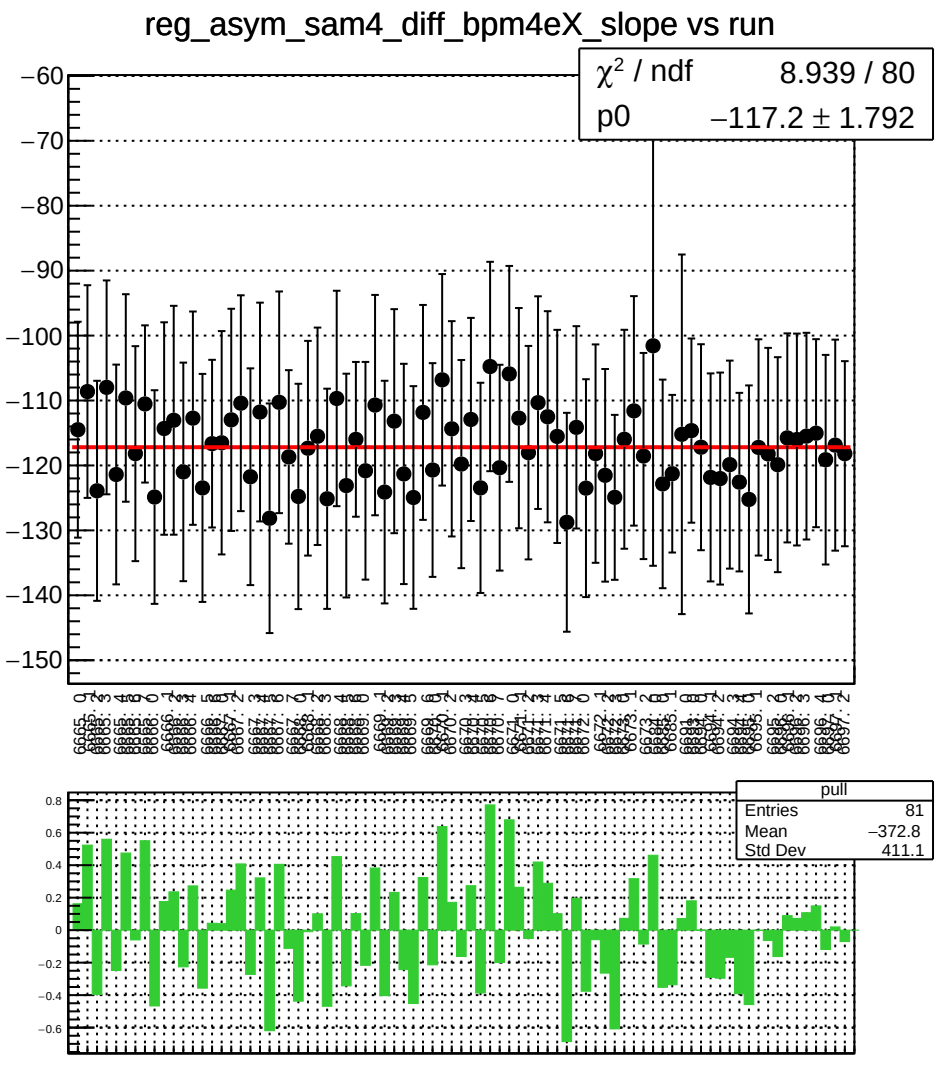

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 10.13 / 80
p0 27.7 ± 0.5761
pull
Entries 81
Mean 82.75
Std Dev 46.99
pull1D
Entries 81
Mean −0.02188
Std Dev 0.3529

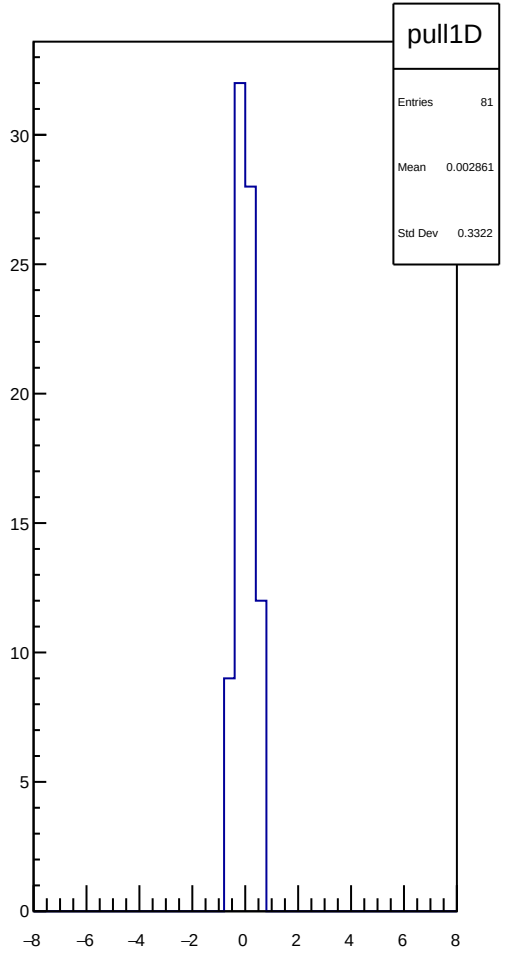

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 61.15 / 80
p0 0.2078 ± 0.02574
pull
Entries 81
Mean 324.1
Std Dev 274.8
pull1D
Entries 81
Mean −0.05007
Std Dev 0.8674

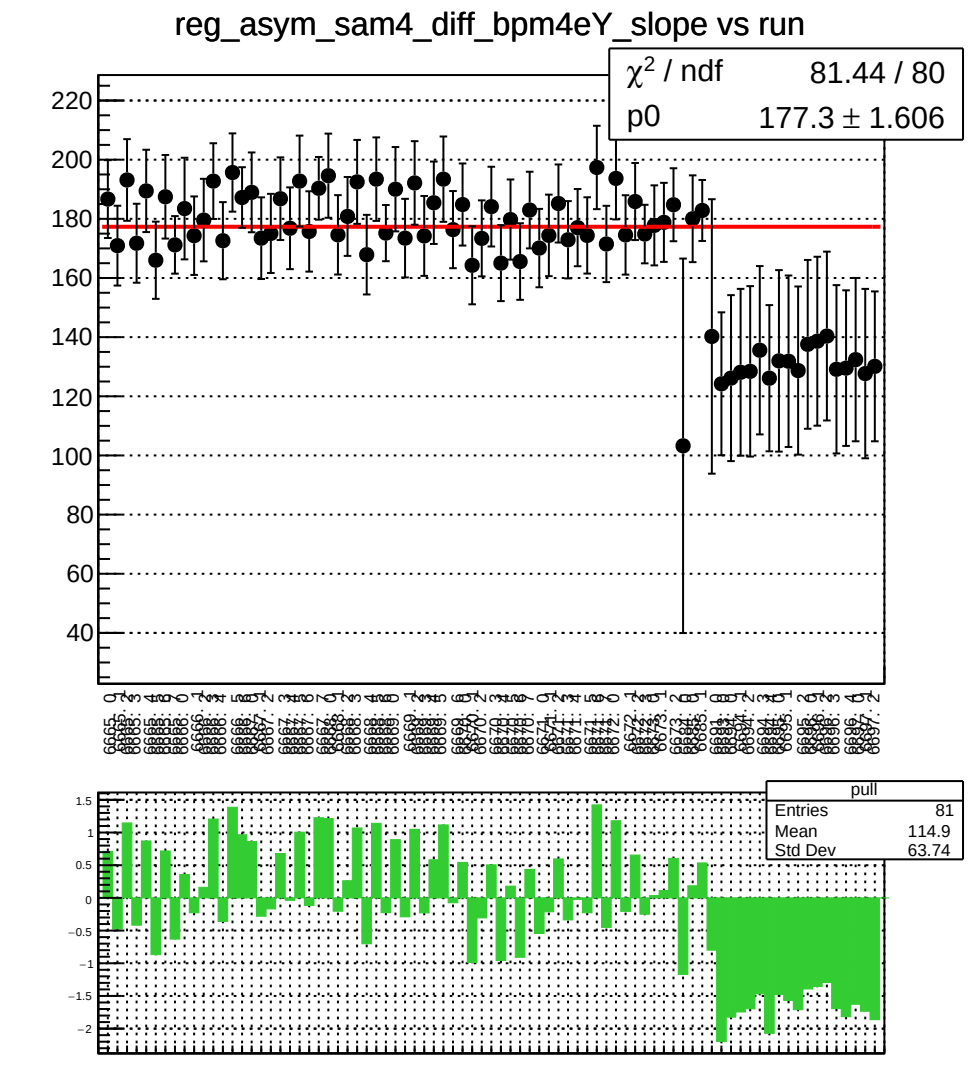

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 6.307 / 80
p0 −28.85 ± 1.695
pull
Entries 81
Mean 32.62
Std Dev 70.49

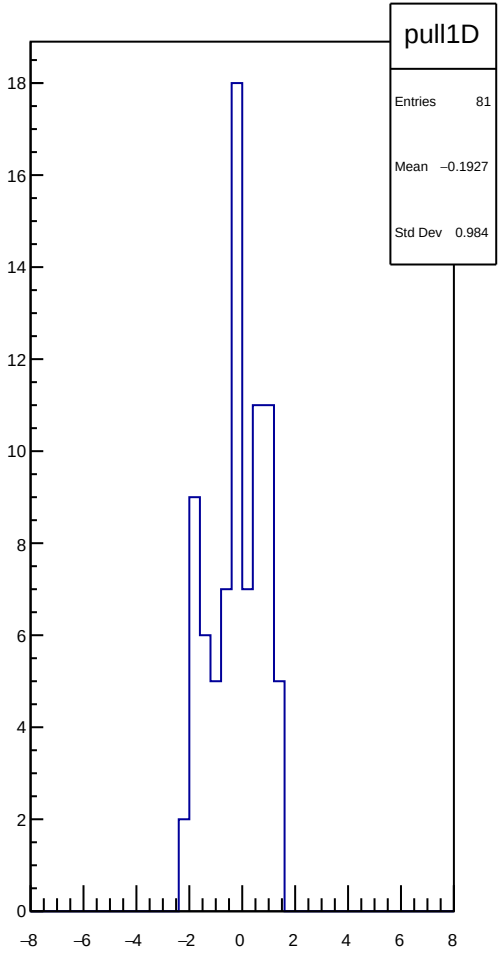

pull1D
Entries 81
Mean −0.003558
Std Dev 0.279

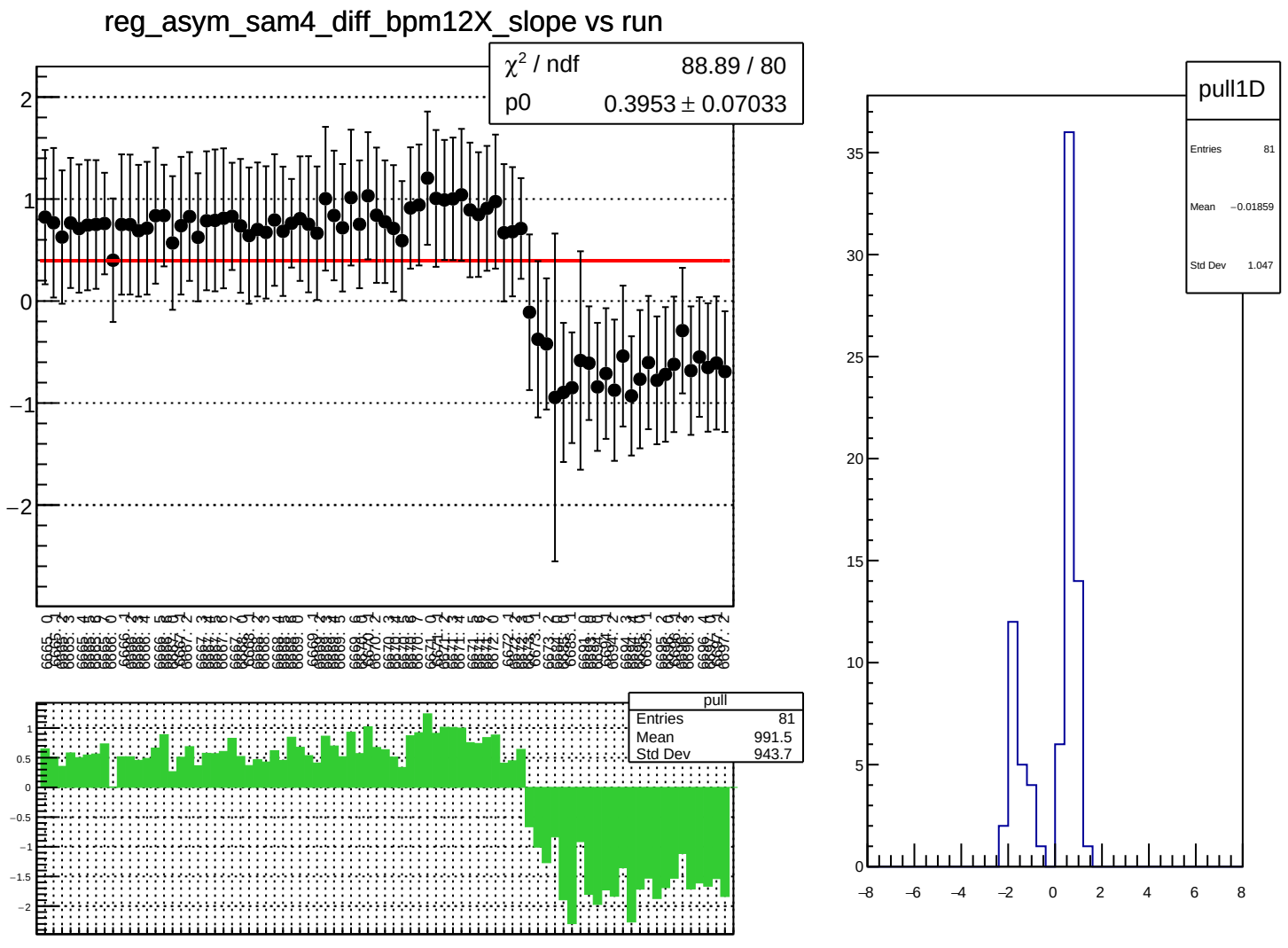

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 70.88 / 80
p0 20.34 ± 1.397
pull
Entries 81
Mean 108.8
Std Dev 57.75
pull1D
Entries 81
Mean 0.2214
Std Dev 0.9089

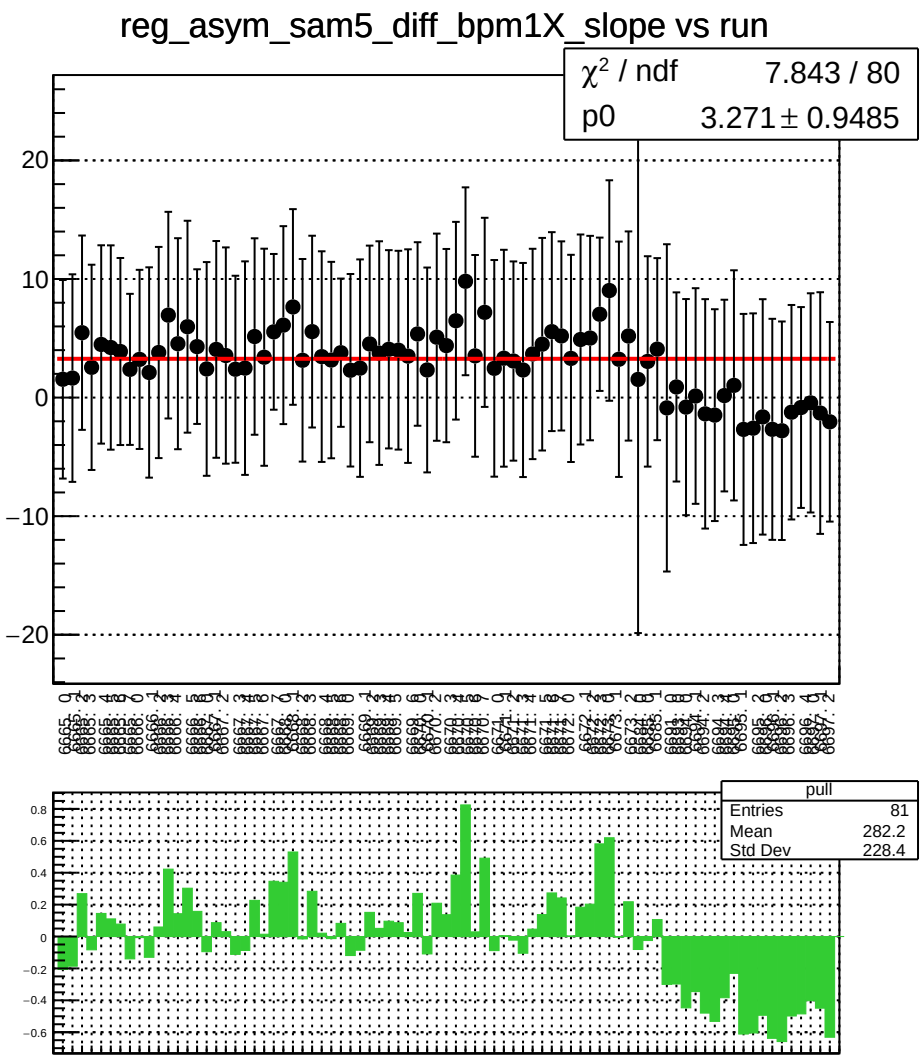

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 8.939 / 80
p0 −117.2 ± 1.792
pull
Entries 81
Mean −372.8
Std Dev 411.1

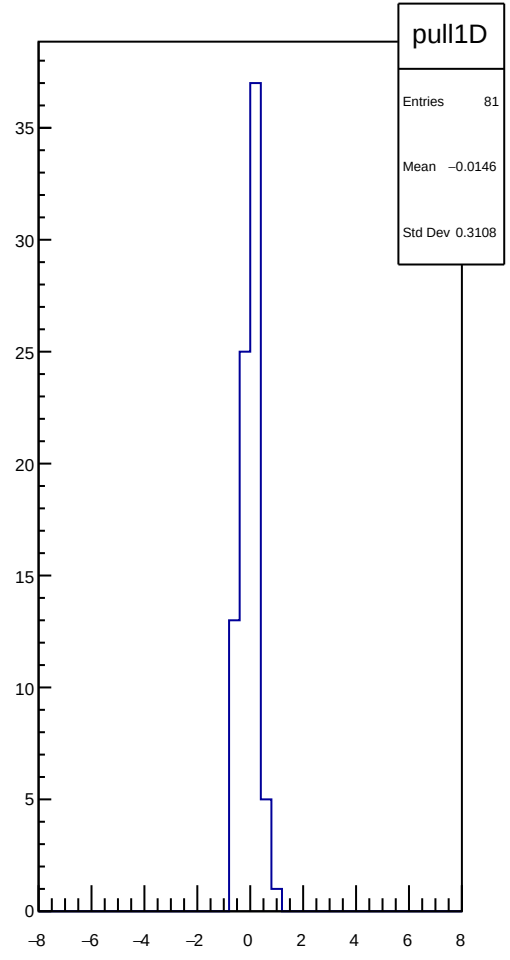

pull1D
Entries 81
Mean 0.002861
Std Dev 0.3322

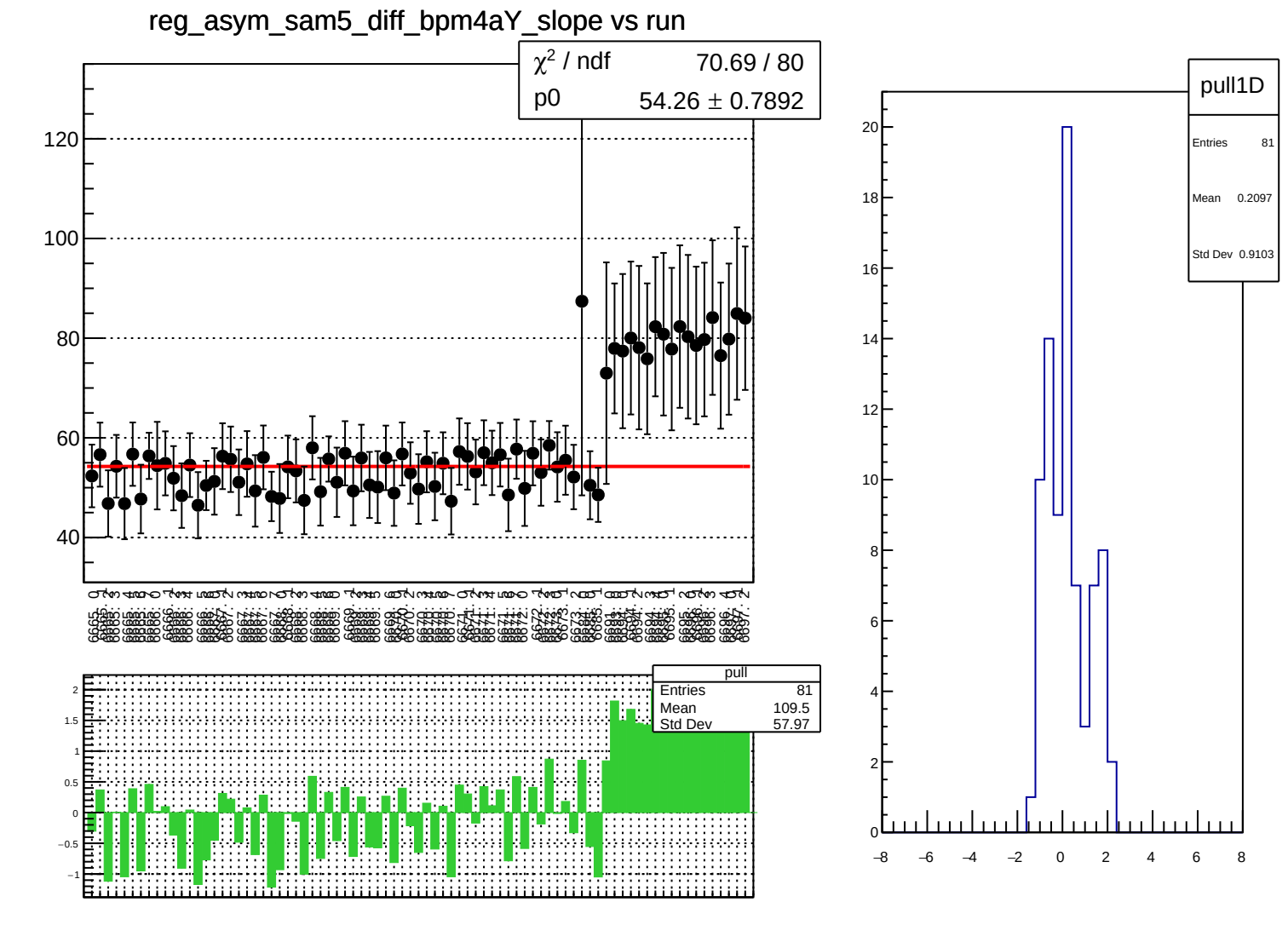

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 81.44 / 80
p0 177.3 ± 1.606
pull
Entries 81
Mean 114.9
Std Dev 63.74

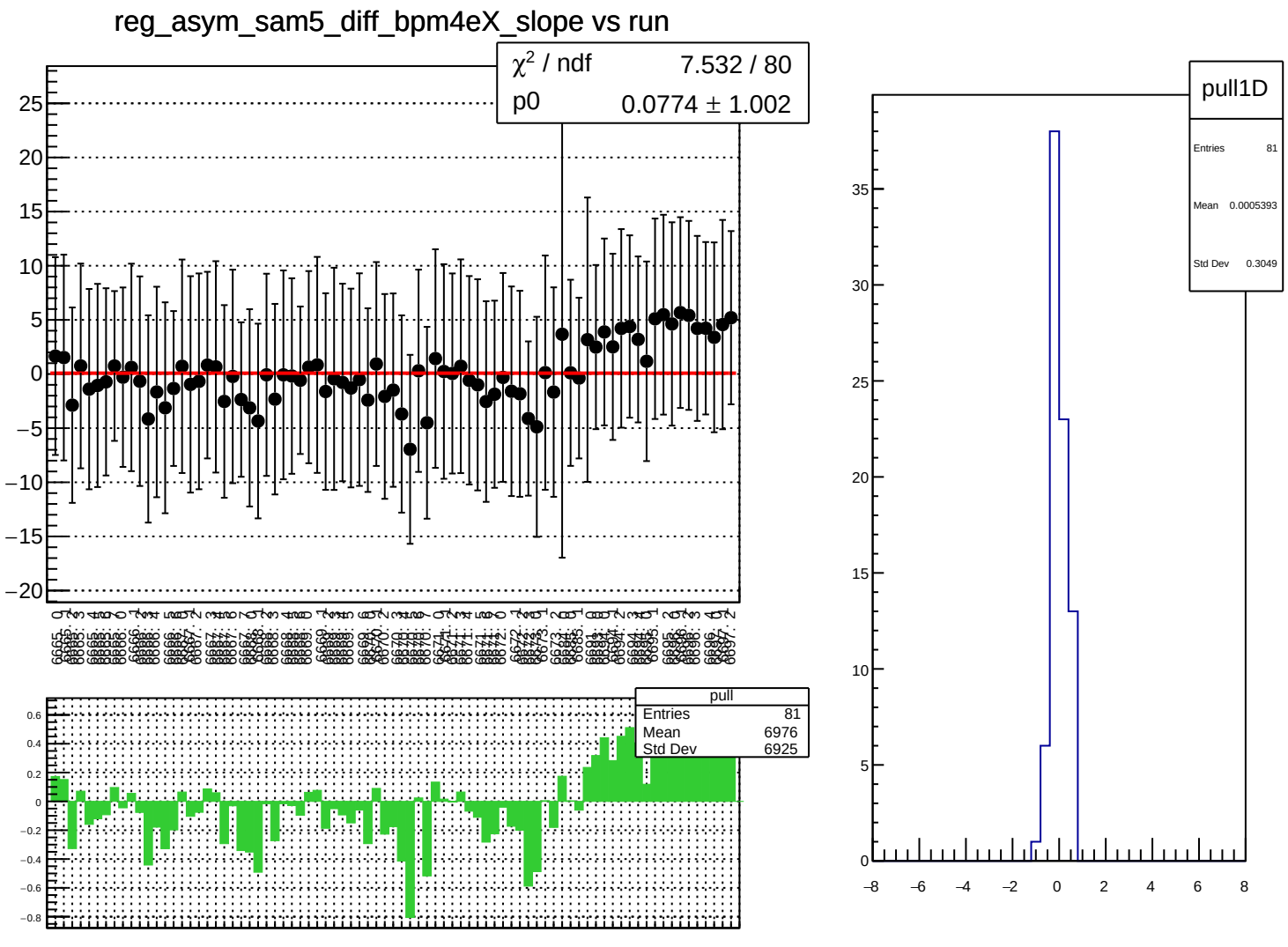

pull1D
Entries 81
Mean −0.1927
Std Dev 0.984

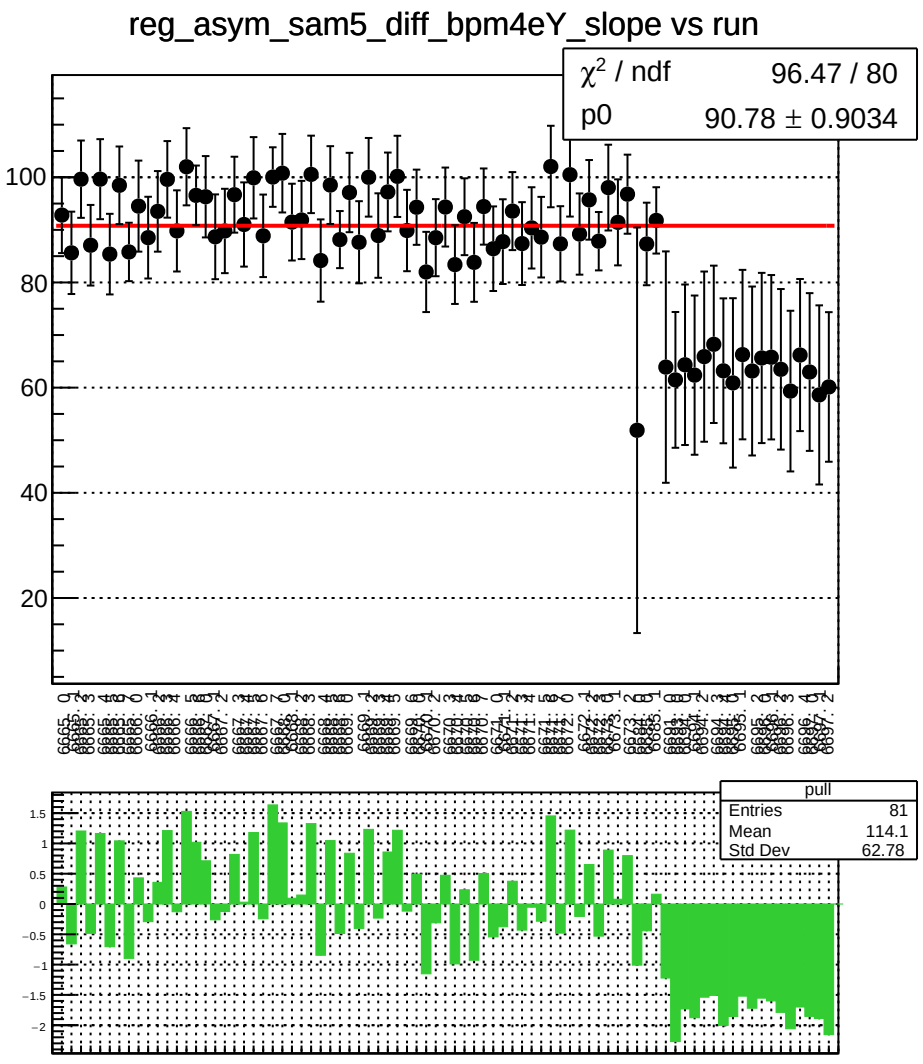

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 88.89 / 80
p0 0.3953 ± 0.07033
pull
Entries 81
Mean 991.5
Std Dev 943.7
pull1D
Entries 81
Mean −0.01859
Std Dev 1.047

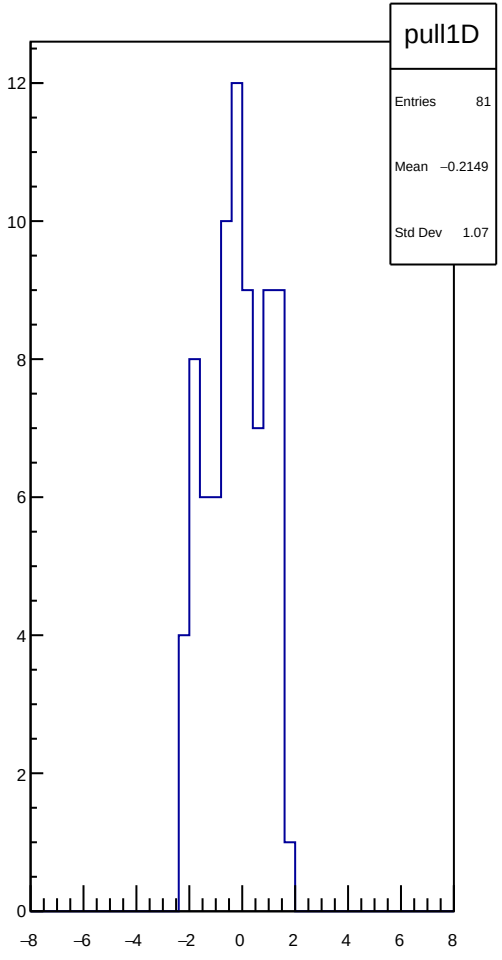

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 7.843 / 80
p0 3.271 ± 0.9485
pull
Entries 81
Mean 282.2
Std Dev 228.4

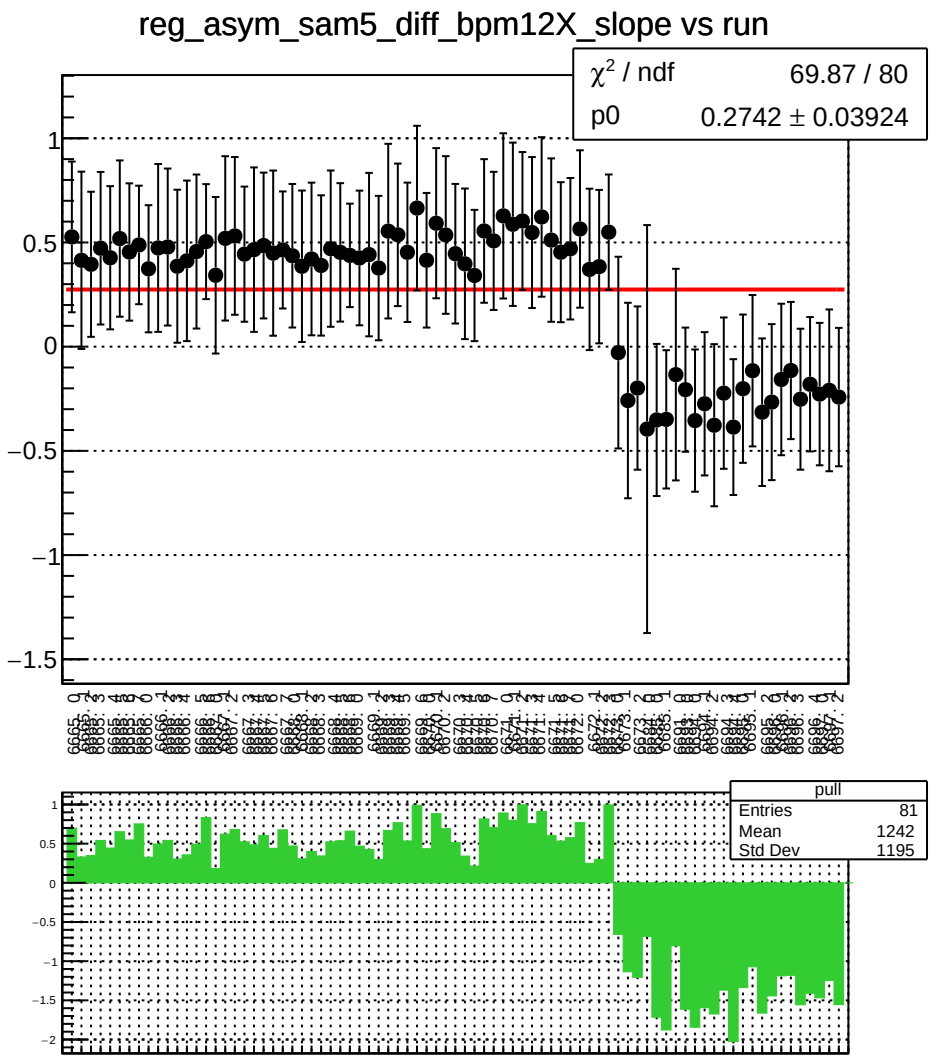

pull1D
Entries 81
Mean −0.0146
Std Dev 0.3108

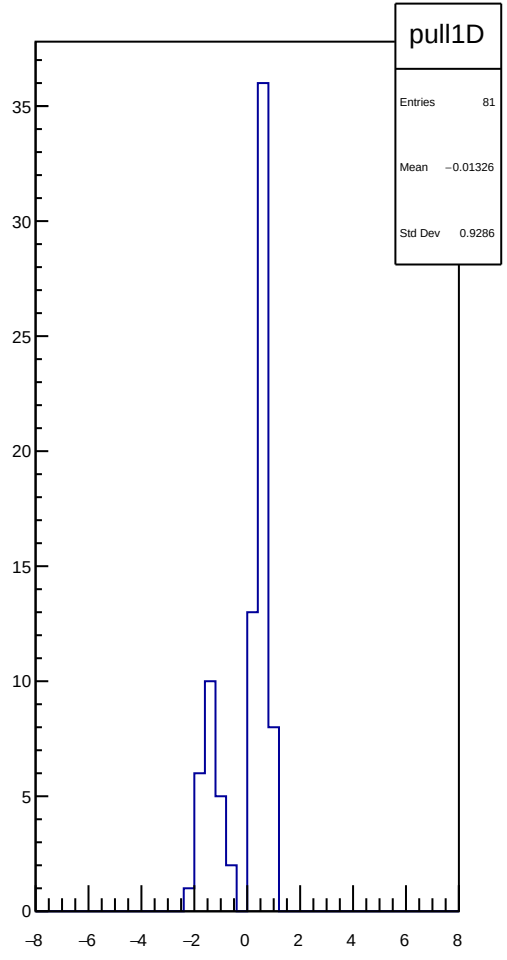

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 70.69 / 80
p0 54.26 ± 0.7892
120
100
80
60
40
pull
Entries 81
Mean 109.5
Std Dev 57.97
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.2097
Std Dev 0.9103
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

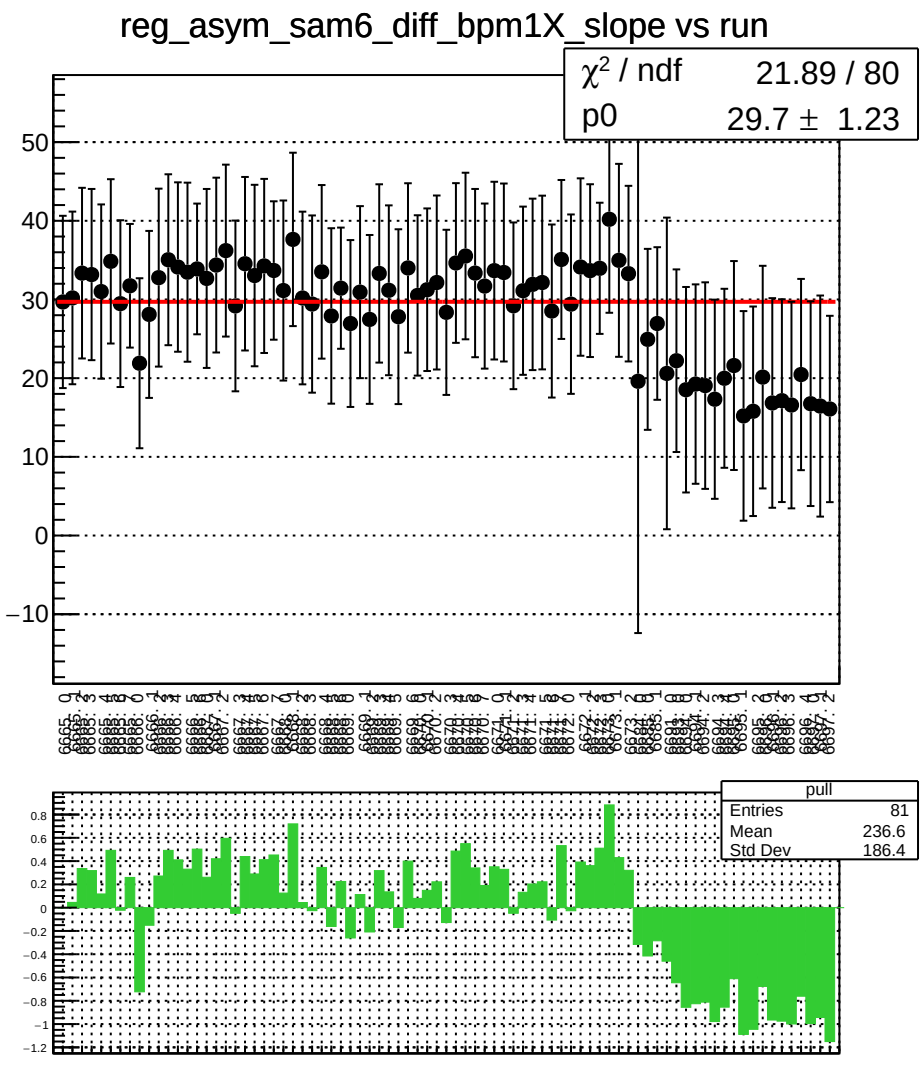

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 7.532 / 80
p0 0.0774 ± 1.002
pull
Entries 81
Mean 6976
Std Dev 6925
pull1D
Entries 81
Mean 0.0005393
Std Dev 0.3049

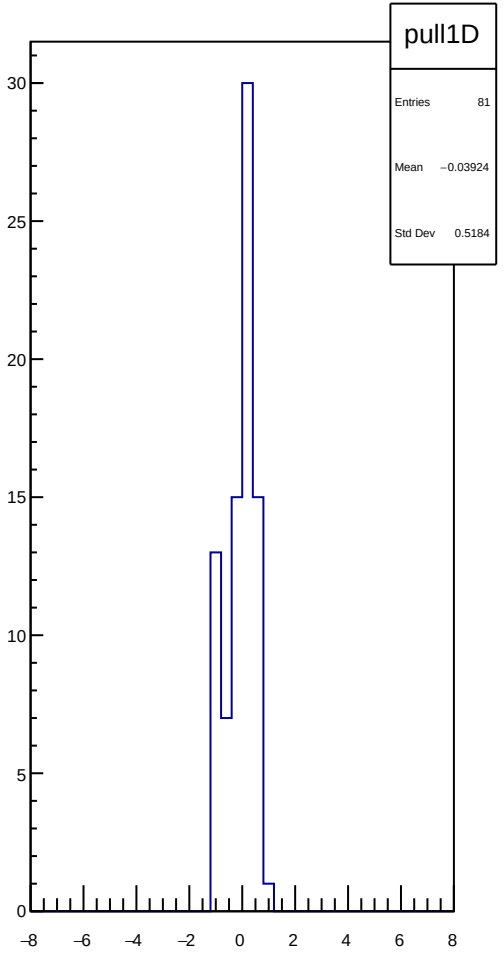

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 96.47 / 80
p0 90.78 ± 0.9034
pull
Entries 81
Mean 114.1
Std Dev 62.78

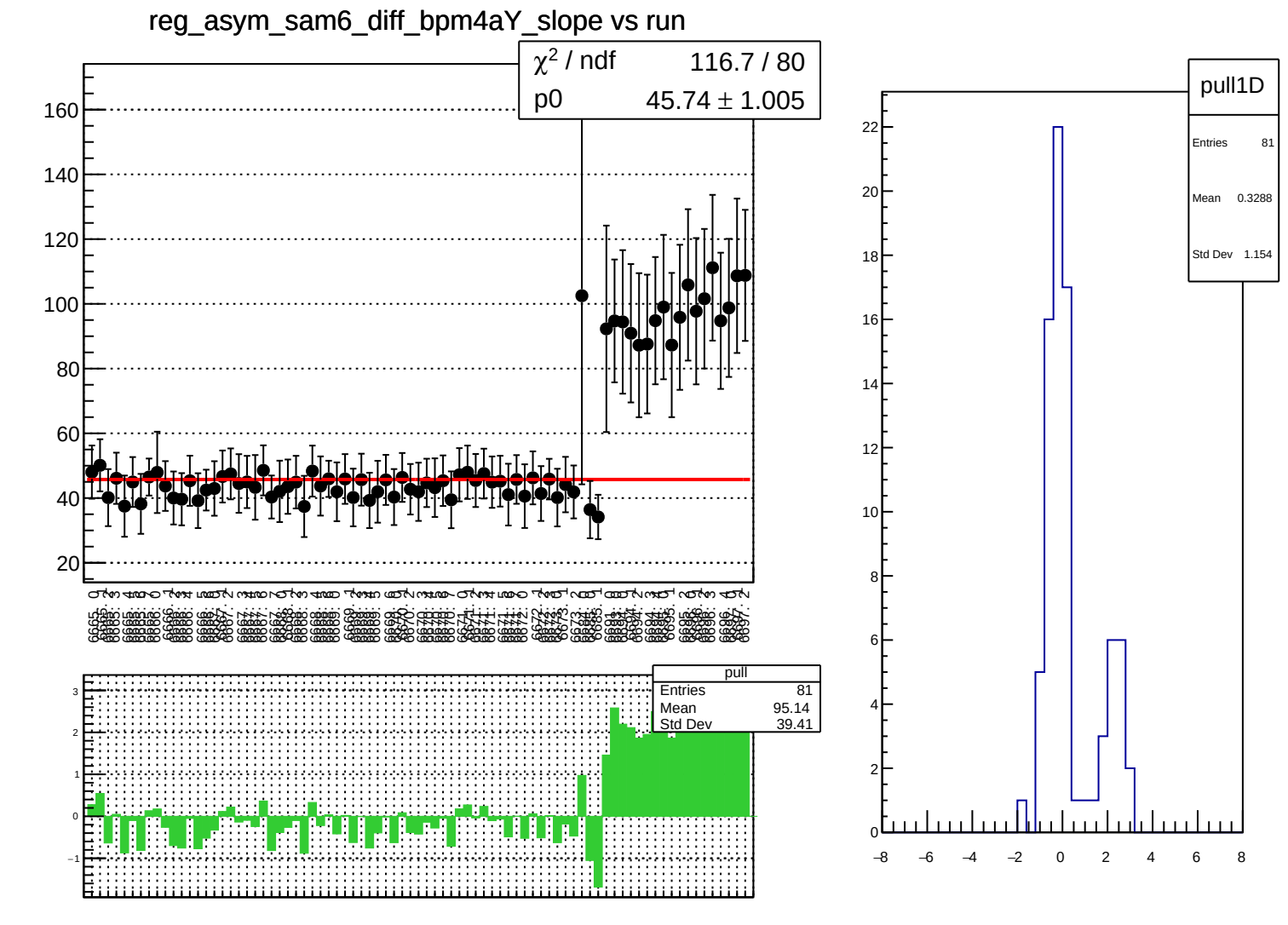

pull1D
Entries 81
Mean −0.2149
Std Dev 1.07

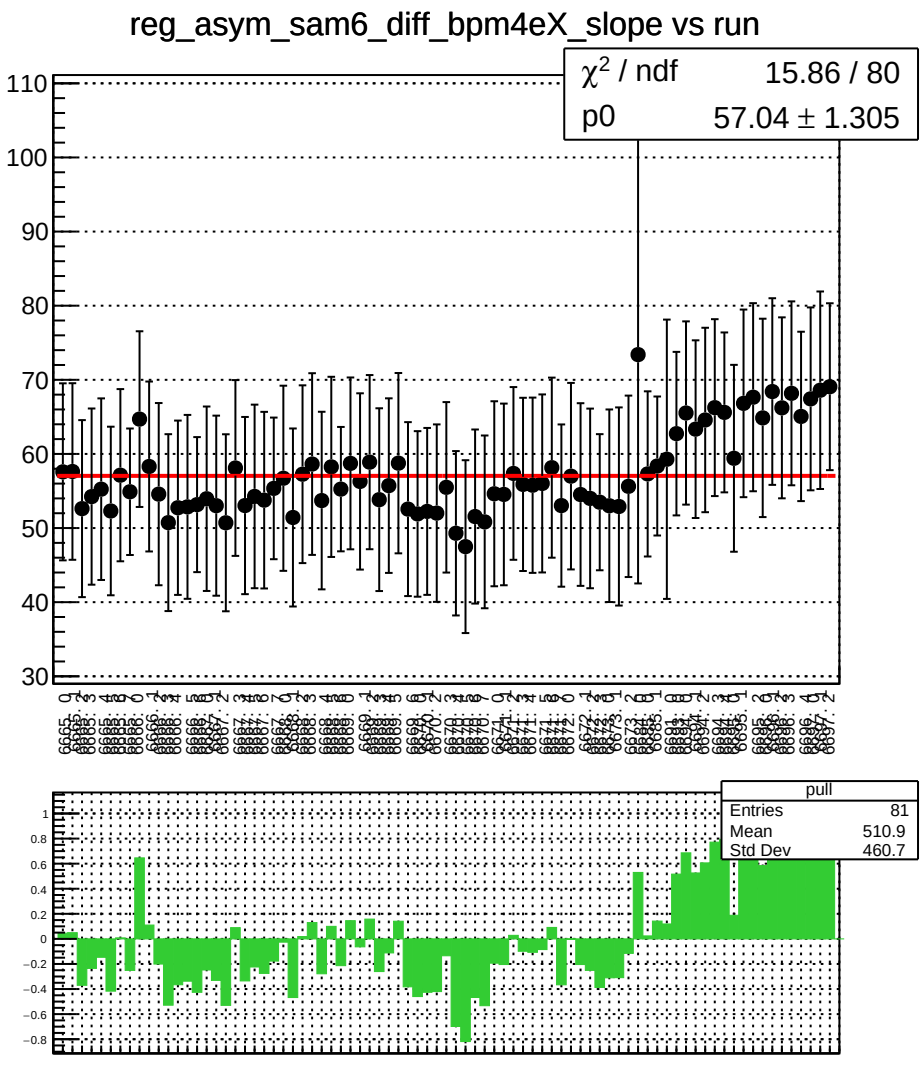

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 69.87 / 80
p0 0.2742 ± 0.03924
pull
Entries 81
Mean 1242
Std Dev 1195

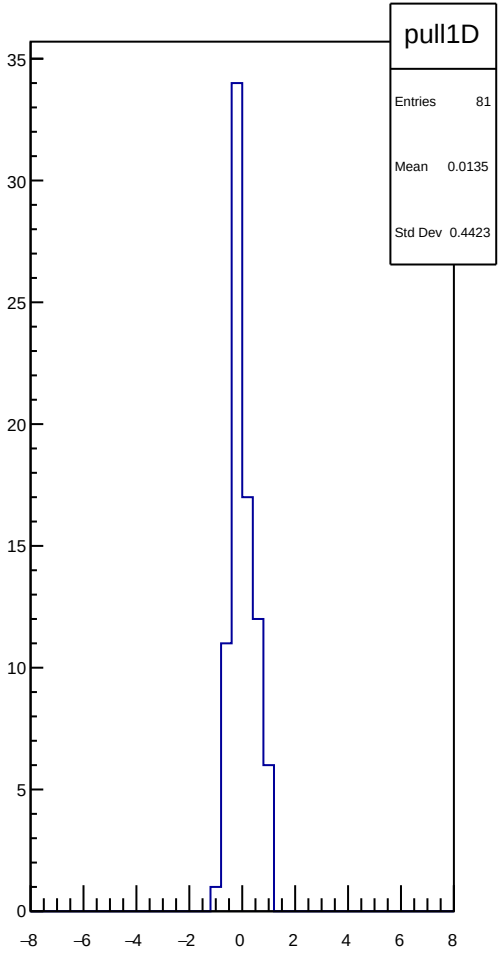

pull1D
Entries 81
Mean −0.01326
Std Dev 0.9286

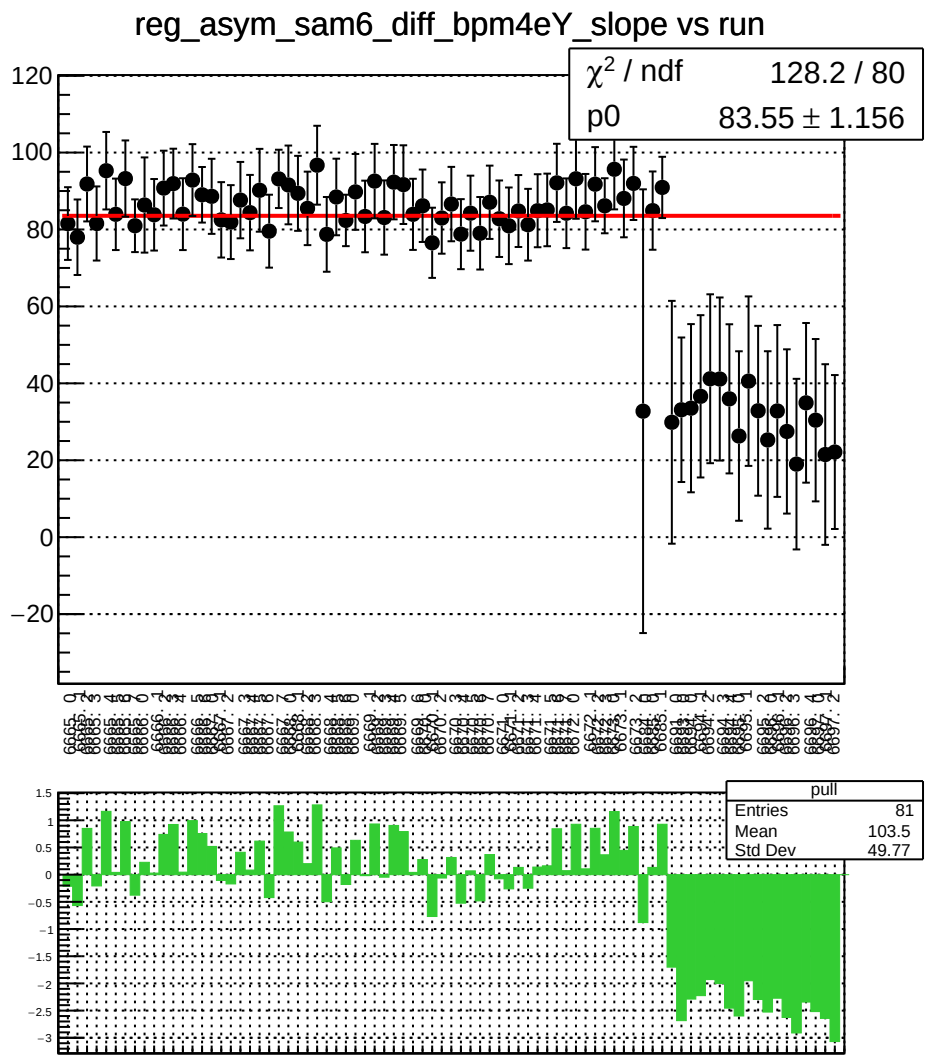

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 21.89 / 80
p0 29.7 ± 1.23
pull
Entries 81
Mean 236.6
Std Dev 186.4

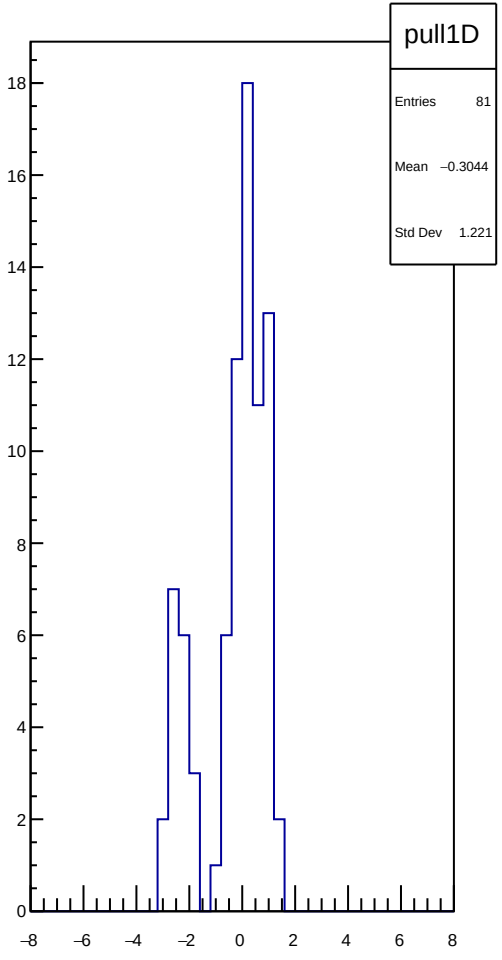

pull1D
Entries 81
Mean −0.03924
Std Dev 0.5184

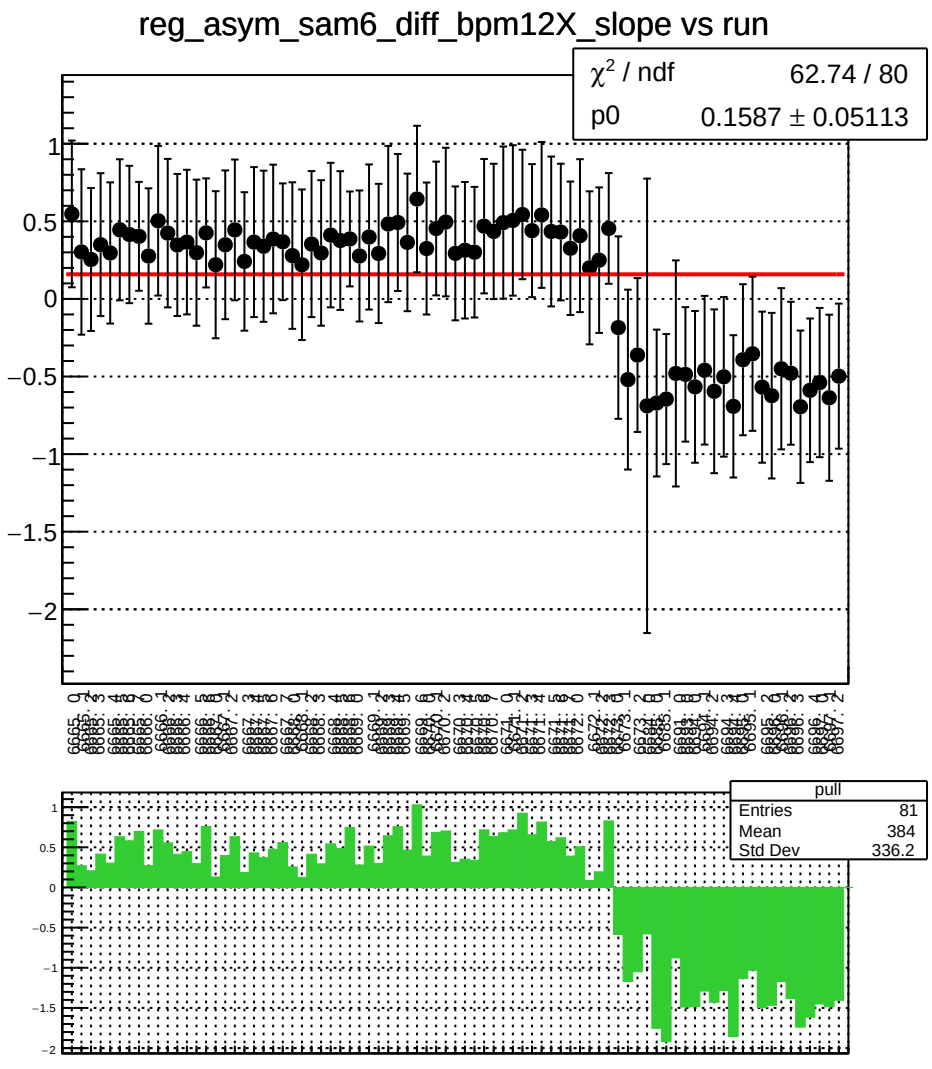

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 116.7 / 80
p0 45.74 ± 1.005
pull
Entries 81
Mean 95.14
Std Dev 39.41
pull1D
Entries 81
Mean 0.3288
Std Dev 1.154

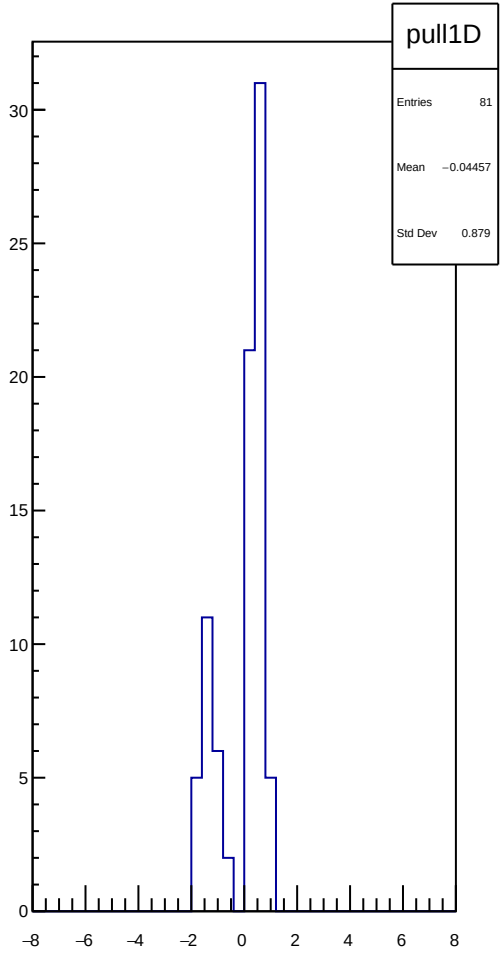

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 15.86 / 80
p0 57.04 ± 1.305
pull
Entries 81
Mean 510.9
Std Dev 460.7

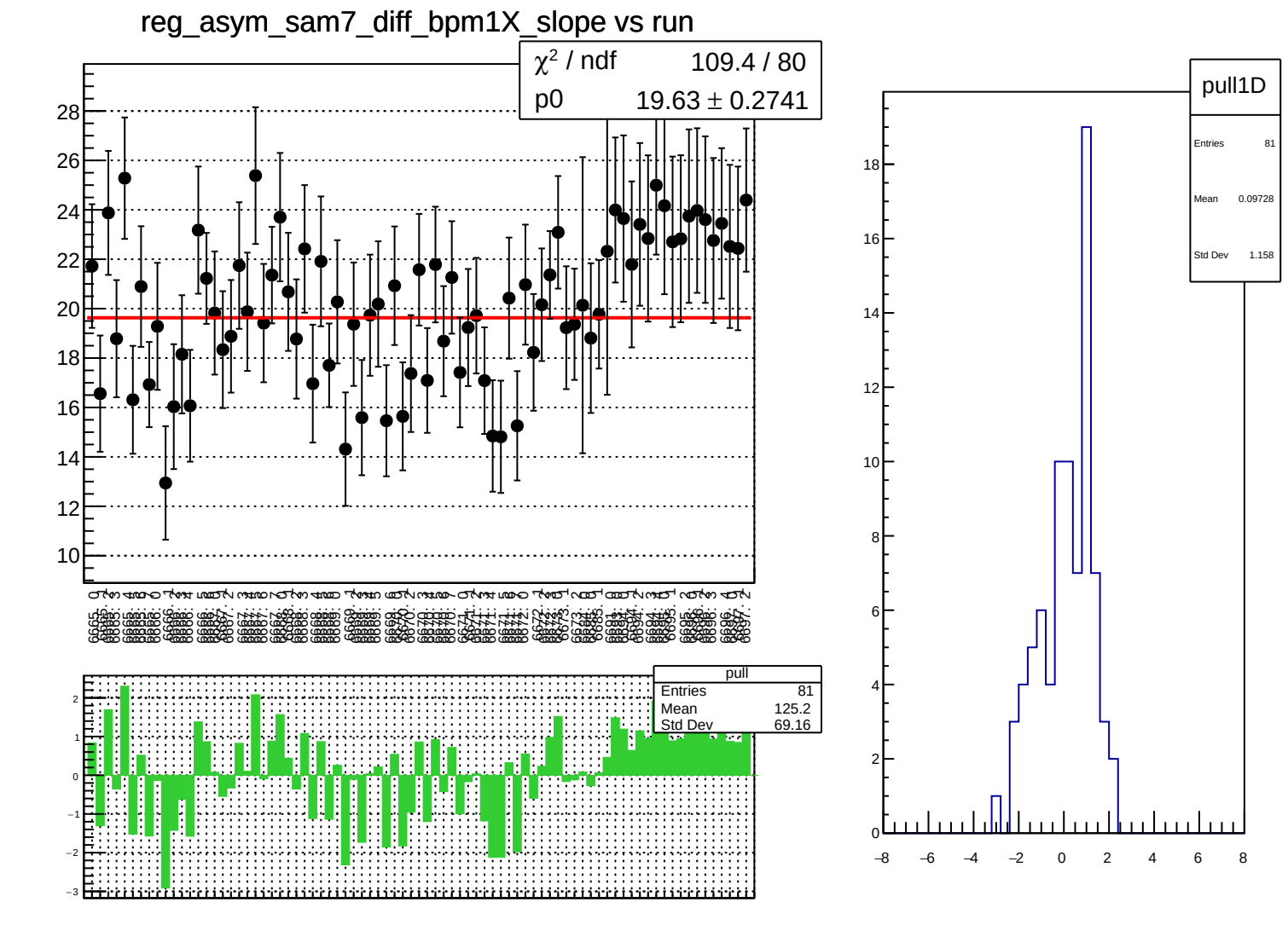

pull1D
Entries 81
Mean 0.0135
Std Dev 0.4423

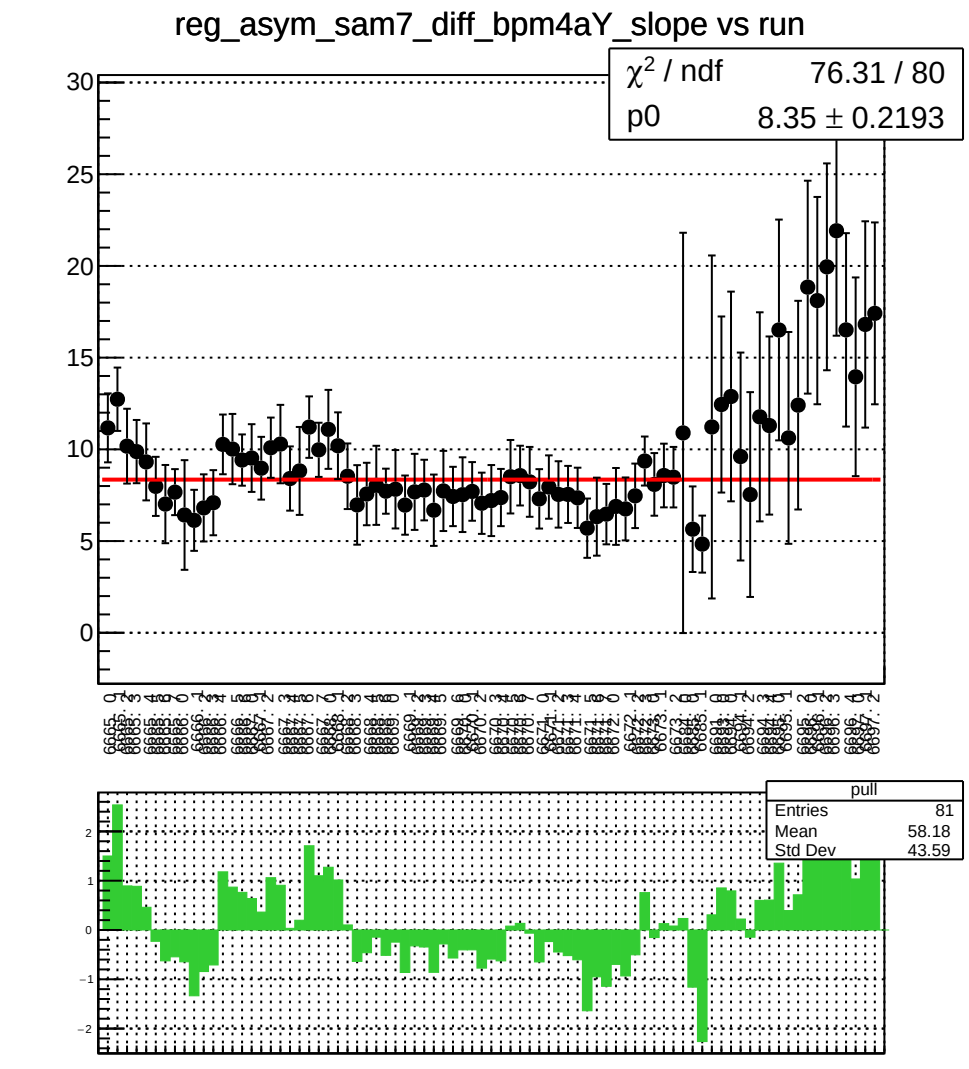

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 128.2 / 80
p0 83.55 ± 1.156
pull
Entries 81
Mean 103.5
Std Dev 49.77

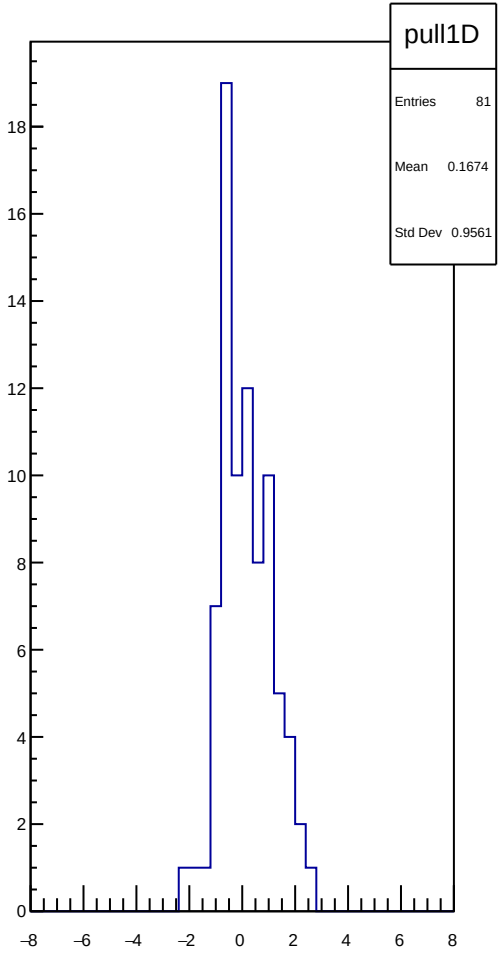

pull1D
Entries 81
Mean −0.3044
Std Dev 1.221

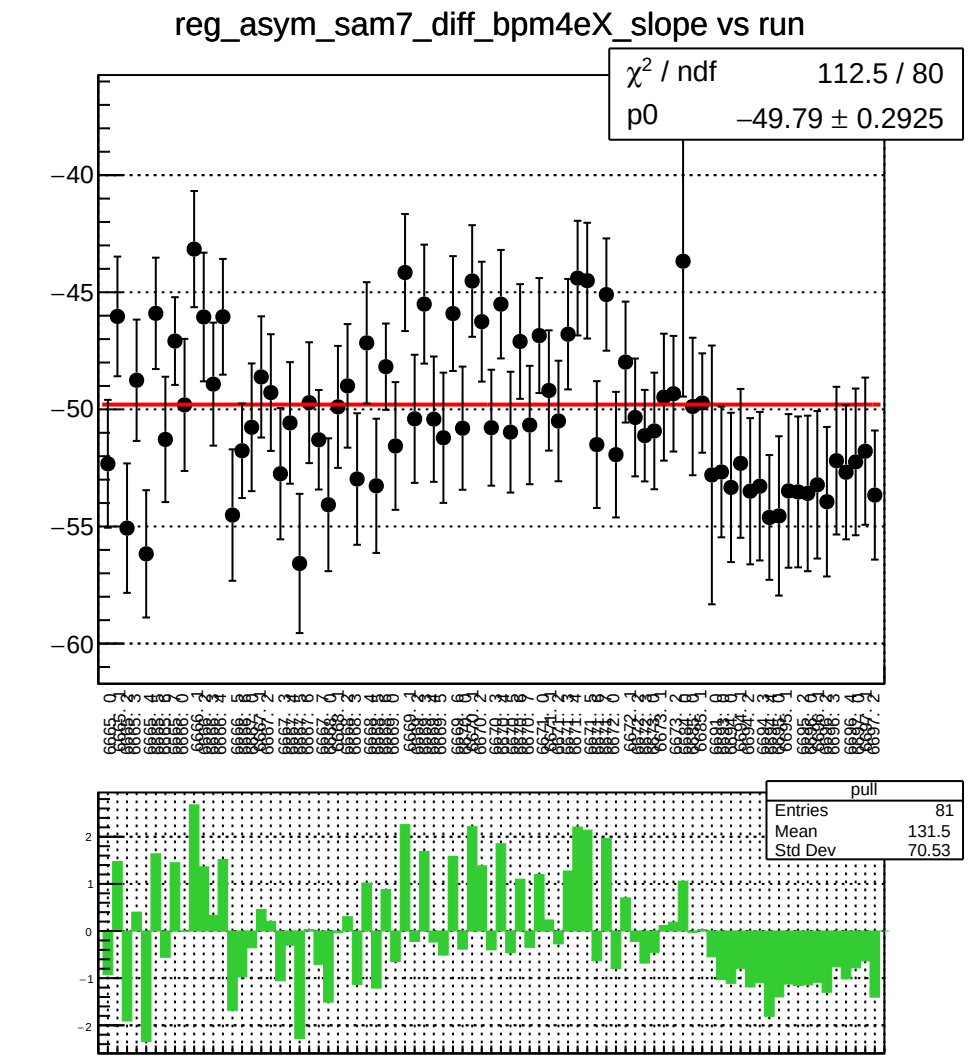

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 62.74 / 80
p0 0.1587 ± 0.05113
pull
Entries 81
Mean 384
Std Dev 336.2

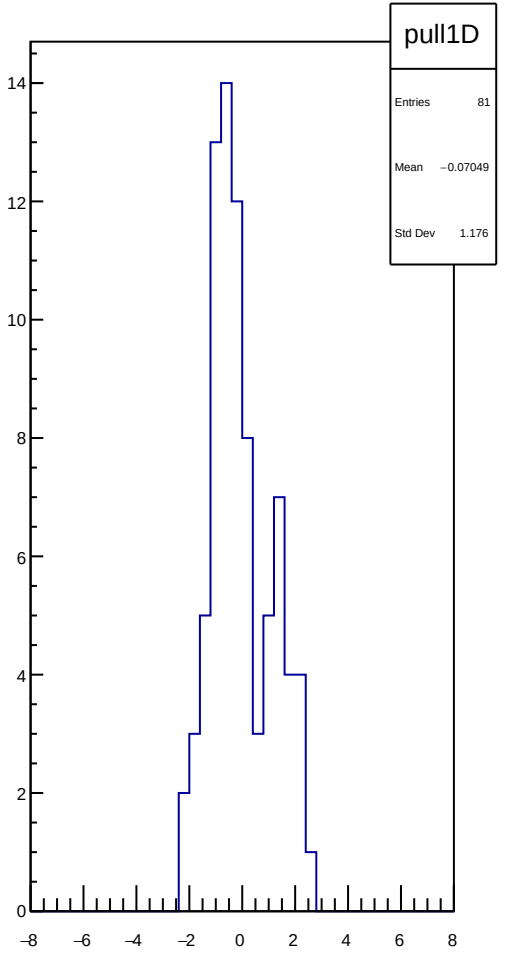

pull1D
Entries 81
Mean −0.04457
Std Dev 0.879

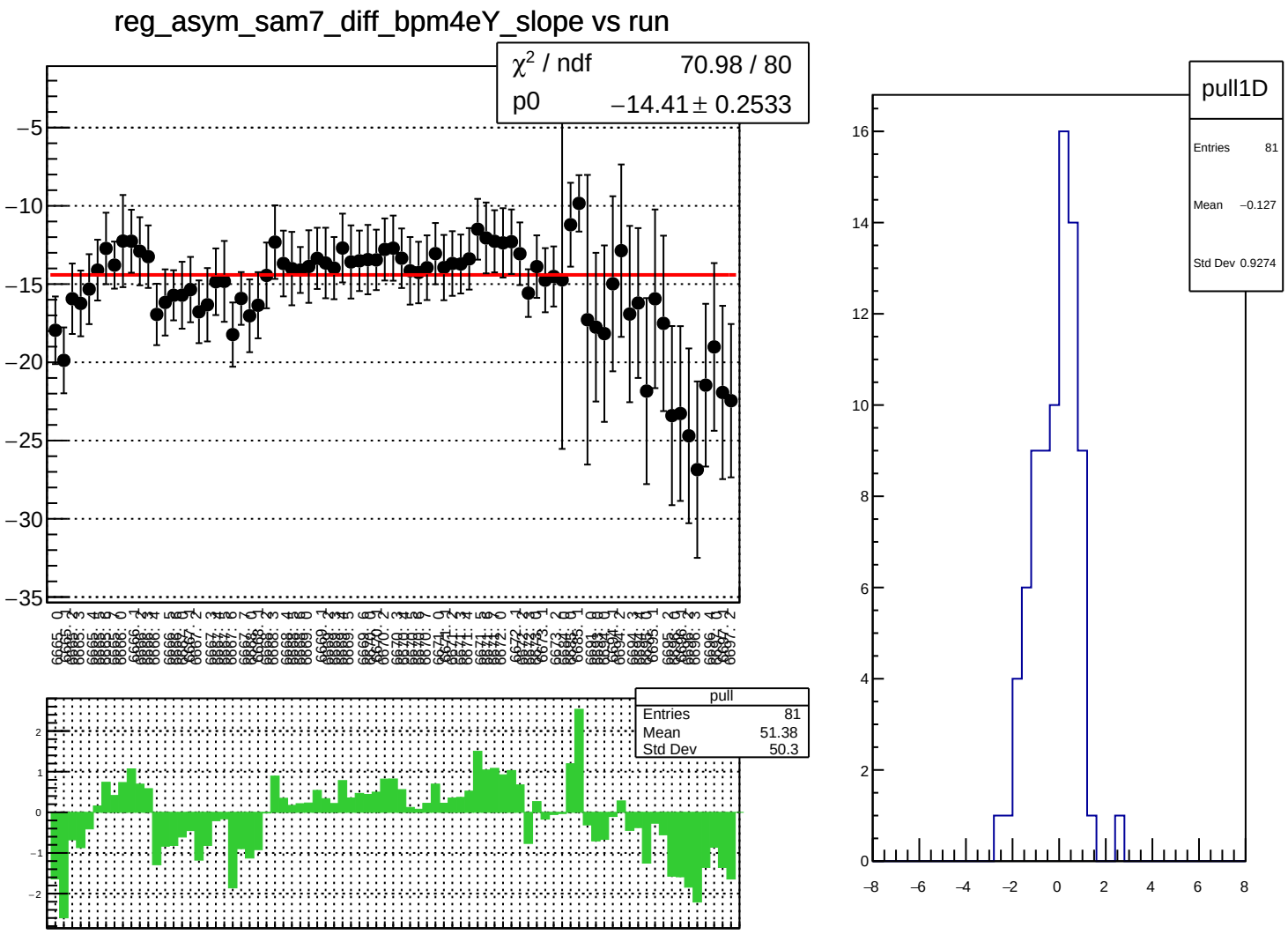

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 109.4 / 80
p0 19.63 ± 0.2741
pull
Entries 81
Mean 125.2
Std Dev 69.16
pull1D
Entries 81
Mean 0.09728
Std Dev 1.158

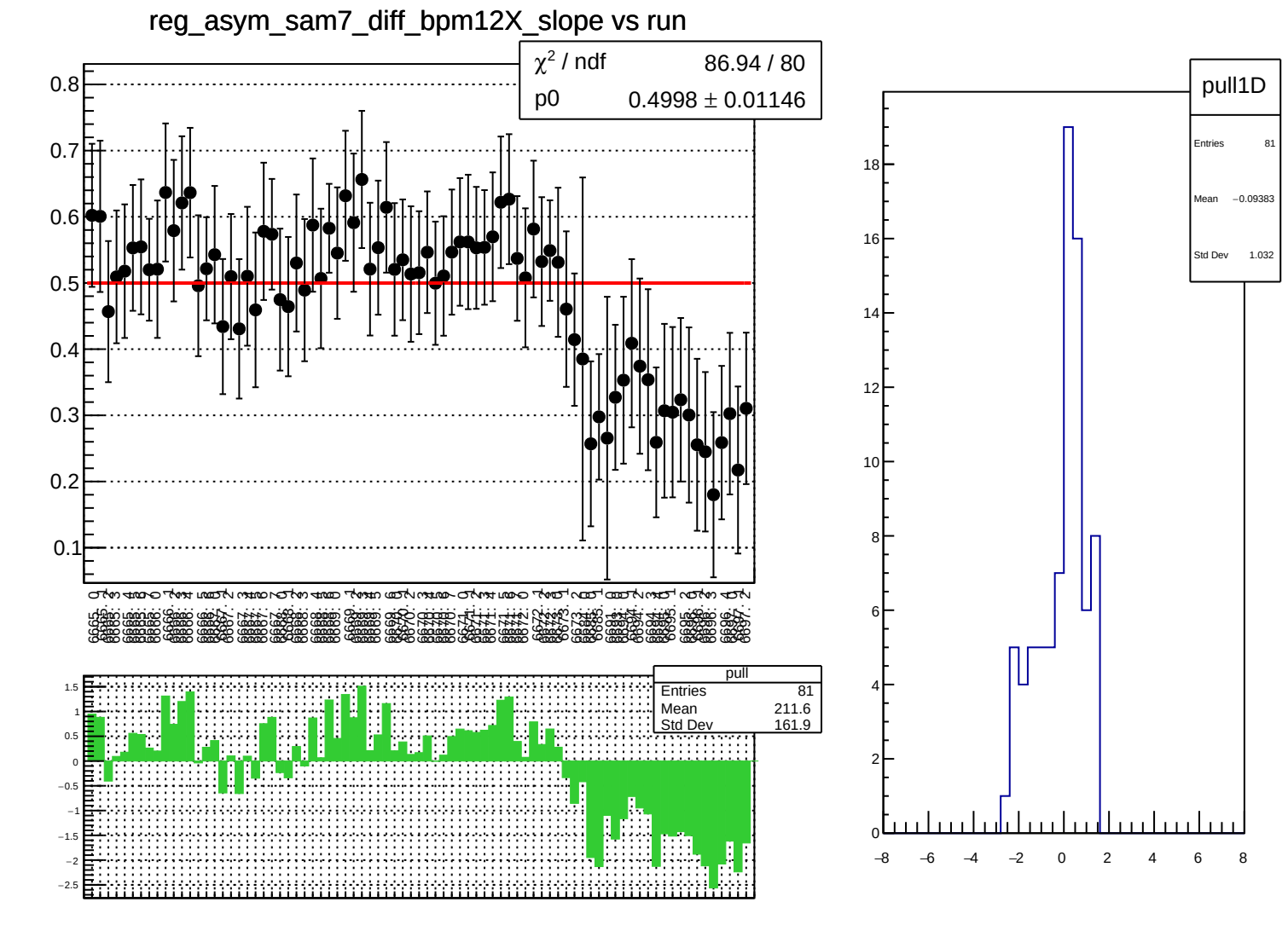

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 76.31 / 80
p0 8.35 ± 0.2193
pull
Entries 81
Mean 58.18
Std Dev 43.59

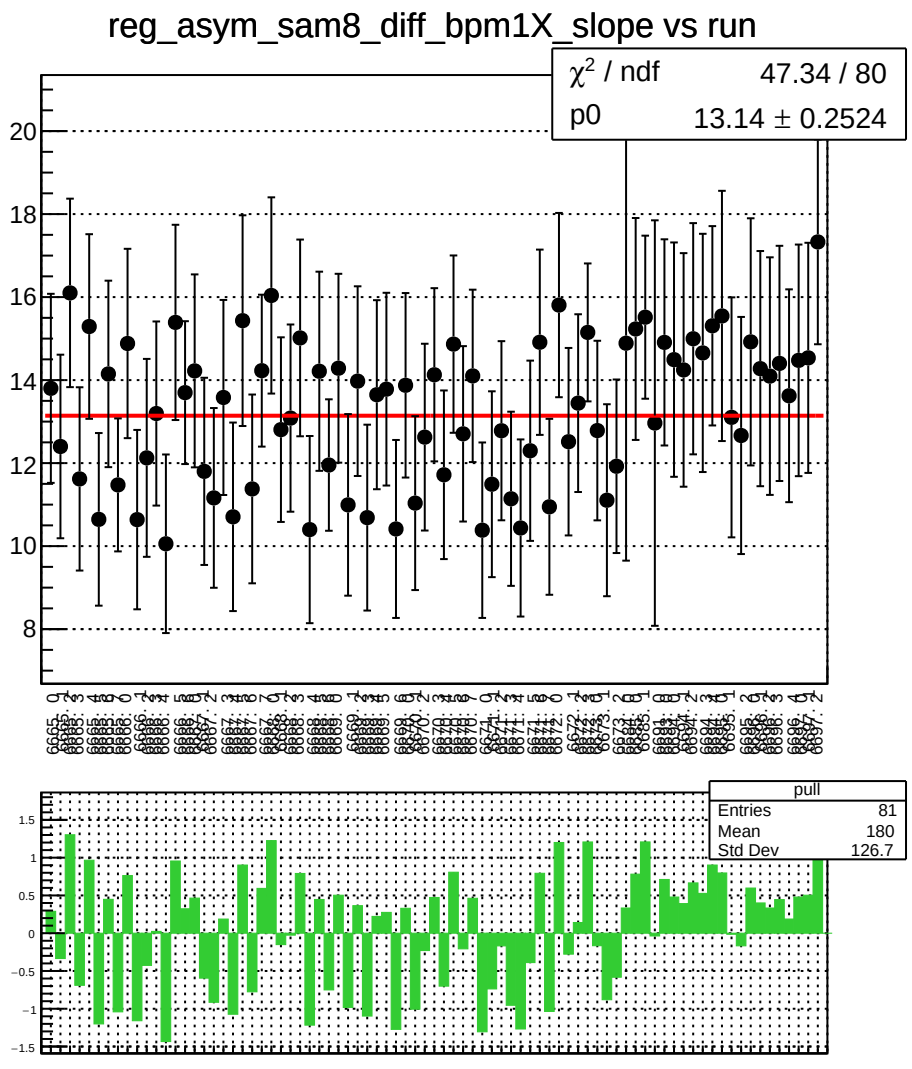

pull1D
Entries 81
Mean 0.1674
Std Dev 0.9561

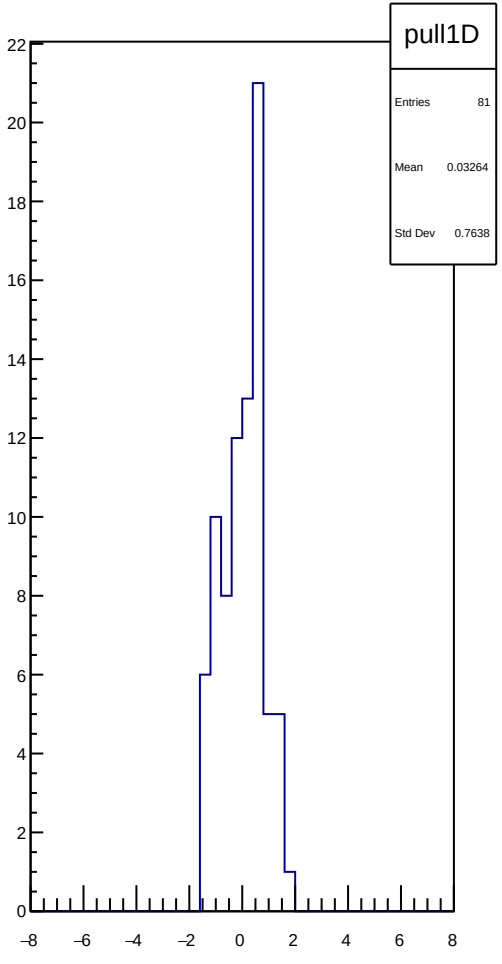

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 112.5 / 80
p0 −49.79 ± 0.2925
−40
−45
−50
−55
−60
pull
Entries 81
Mean 131.5
Std Dev 70.53
2
1
0
−1
−2

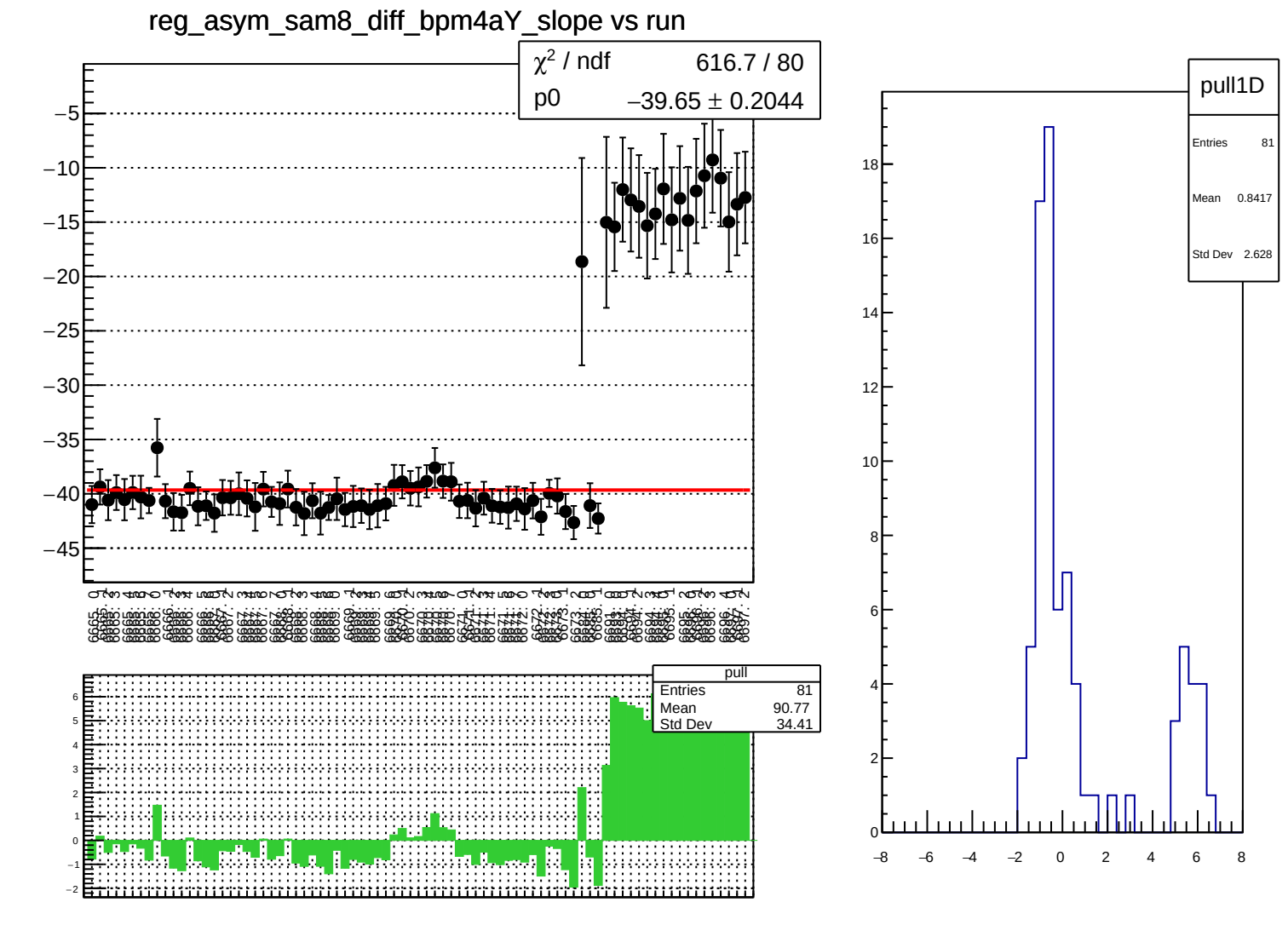

pull1D
Entries 81
Mean −0.07049
Std Dev 1.176
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

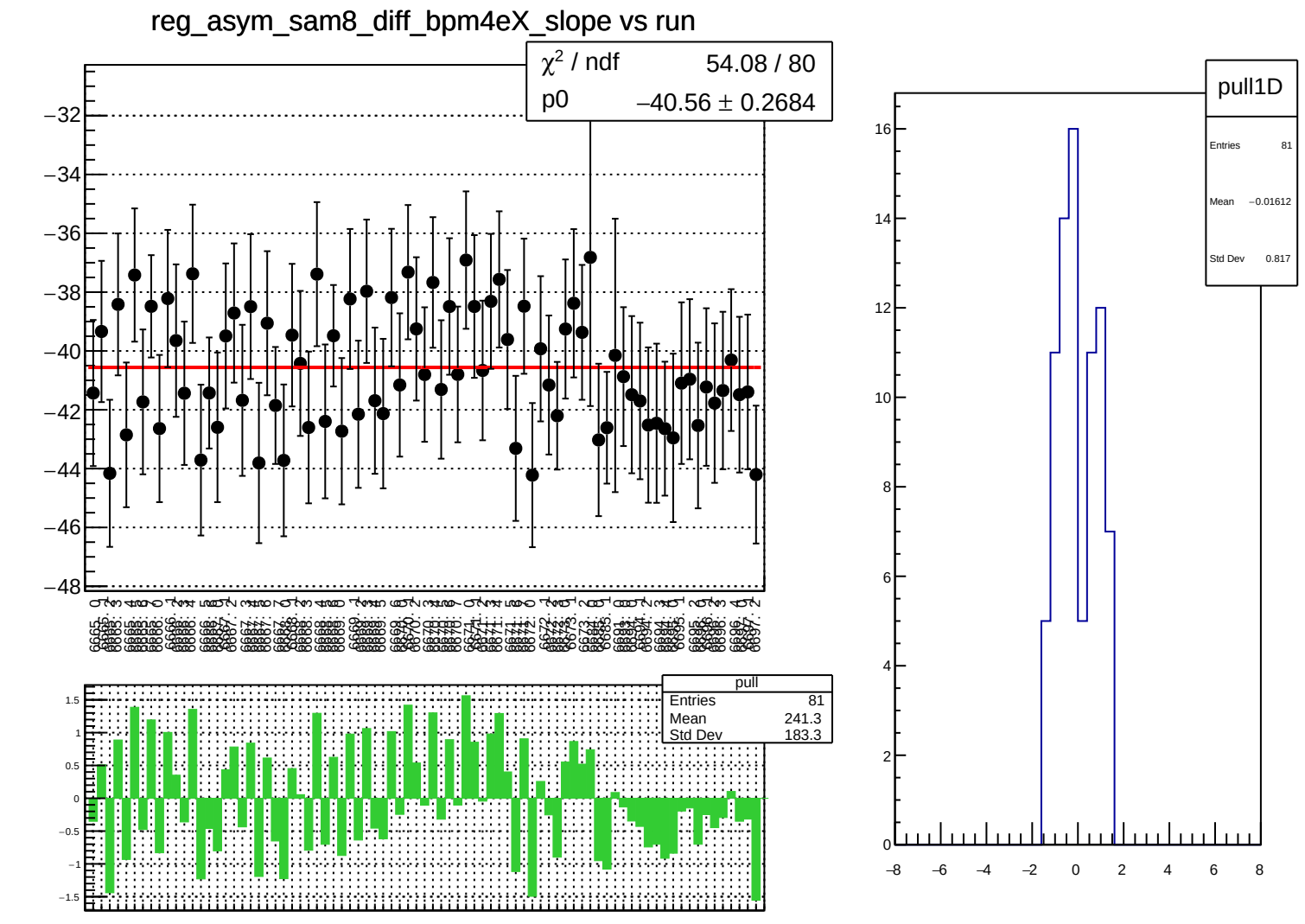

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 70.98 / 80
p0 −14.41 ± 0.2533
pull
Entries 81
Mean 51.38
Std Dev 50.3
pull1D
Entries 81
Mean −0.127
Std Dev 0.9274

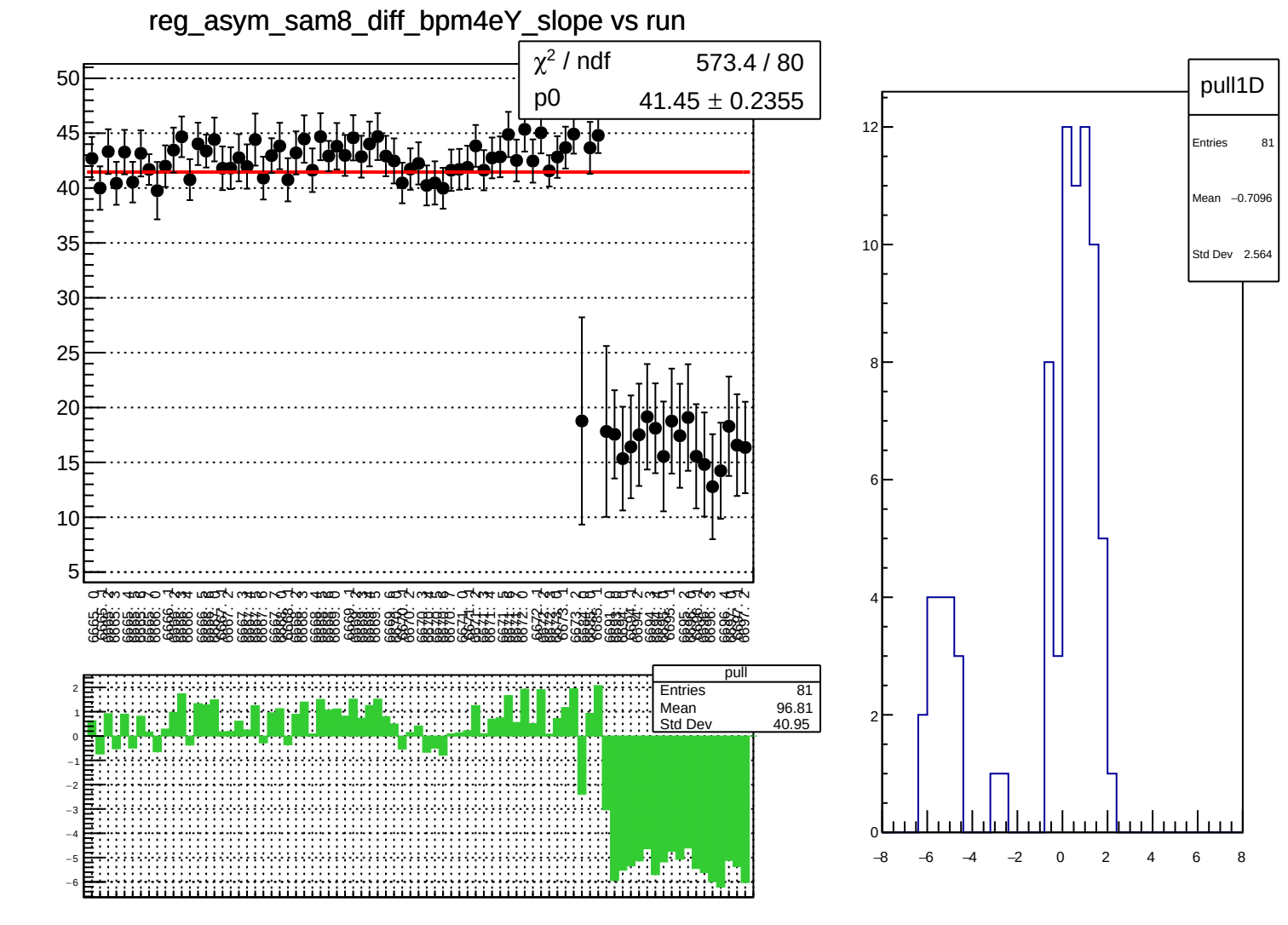

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 86.94 / 80
p0 0.4998 ± 0.01146
pull
Entries 81
Mean 211.6
Std Dev 161.9
pull1D
Entries 81
Mean −0.09383
Std Dev 1.032

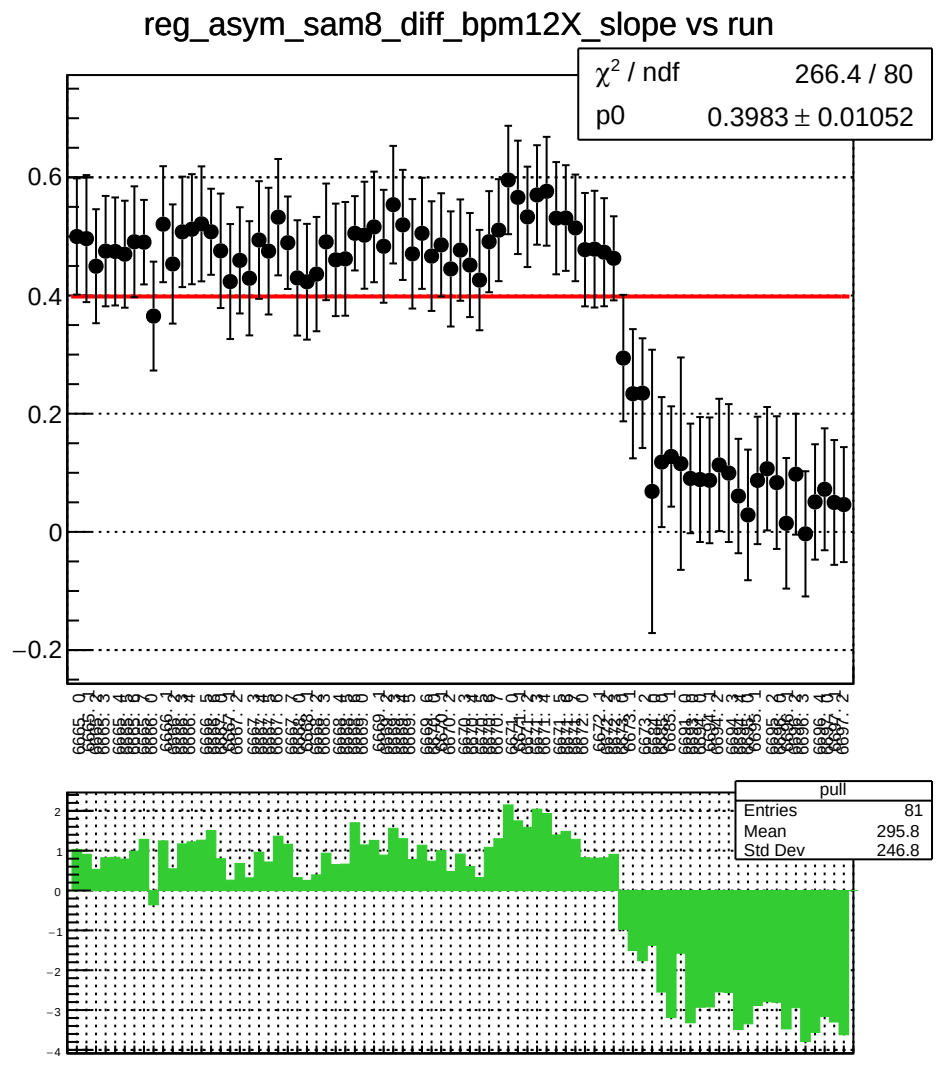

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 47.34 / 80
p0 13.14 ± 0.2524
pull
Entries 81
Mean 180
Std Dev 126.7

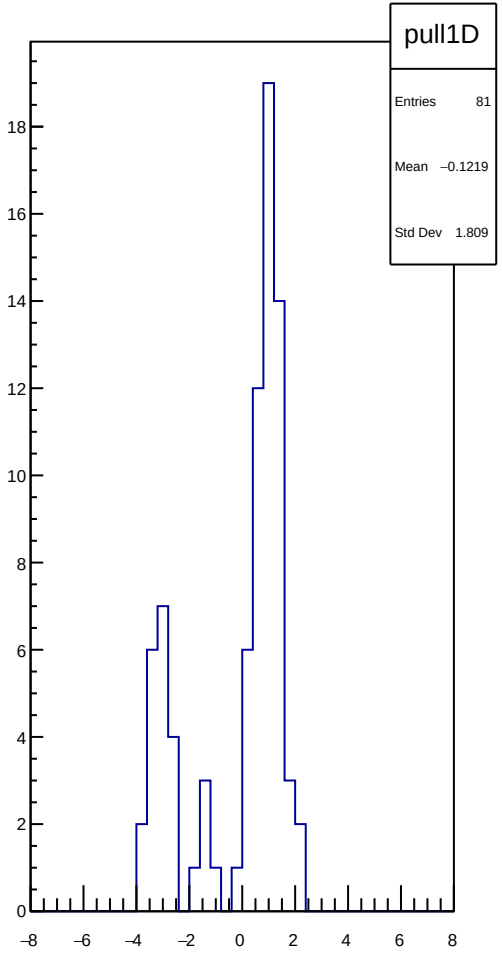

pull1D
Entries 81
Mean 0.03264
Std Dev 0.7638

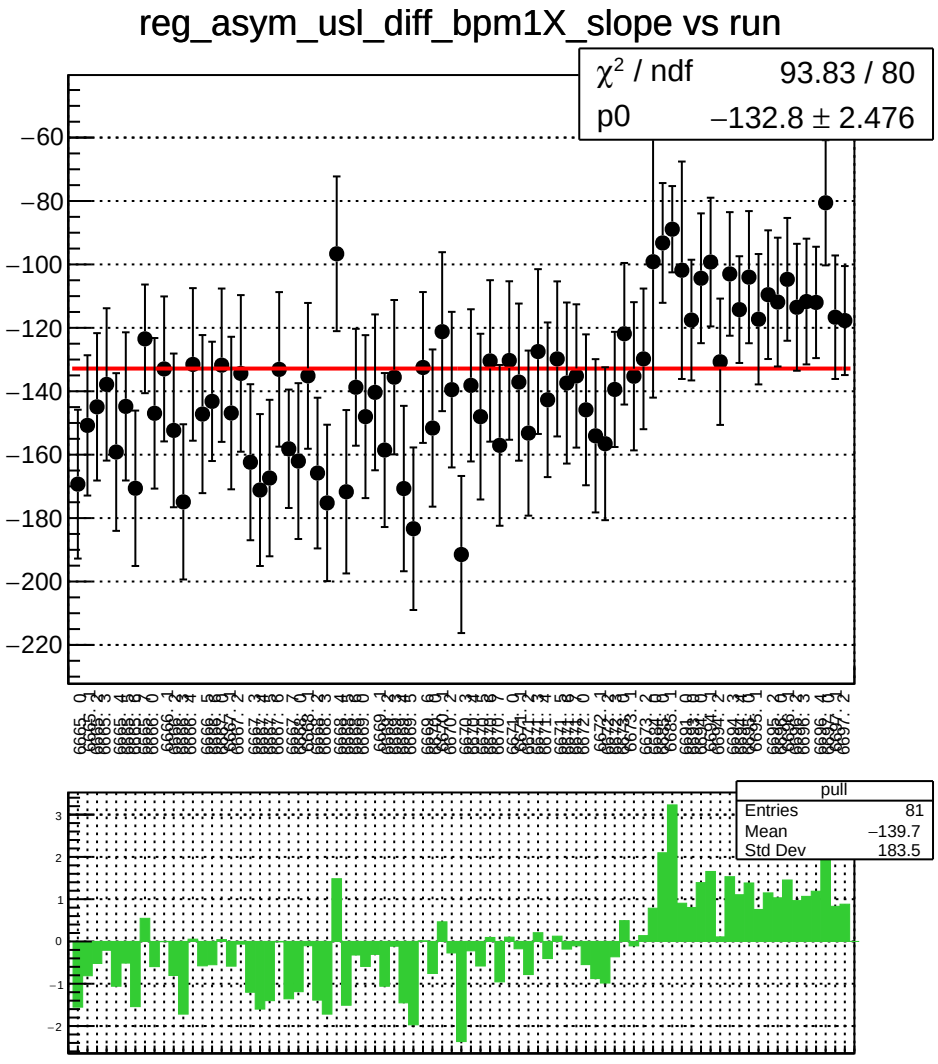

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 616.7 / 80
p0 −39.65 ± 0.2044
pull
Entries 81
Mean 90.77
Std Dev 34.41
pull1D
Entries 81
Mean 0.8417
Std Dev 2.628

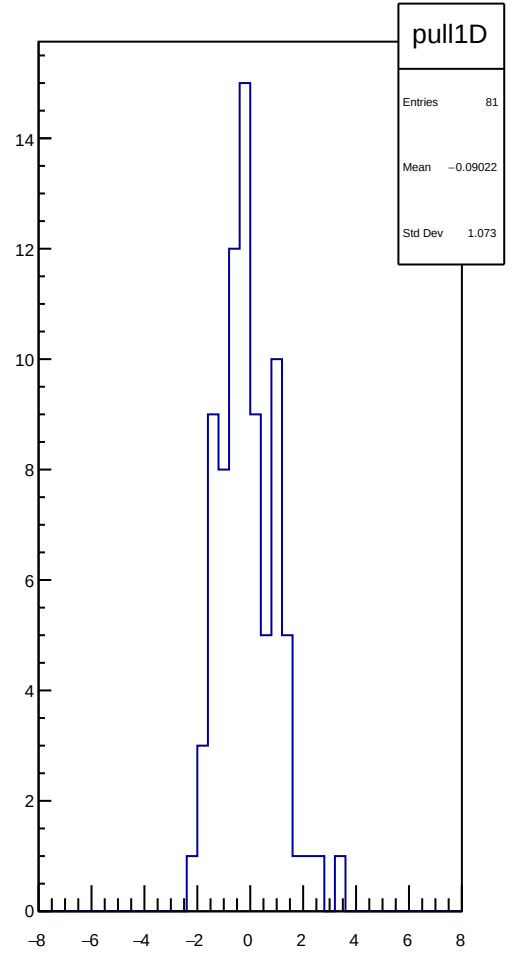

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 54.08 / 80
p0 −40.56 ± 0.2684
pull
Entries 81
Mean 241.3
Std Dev 183.3
pull1D
Entries 81
Mean −0.01612
Std Dev 0.817

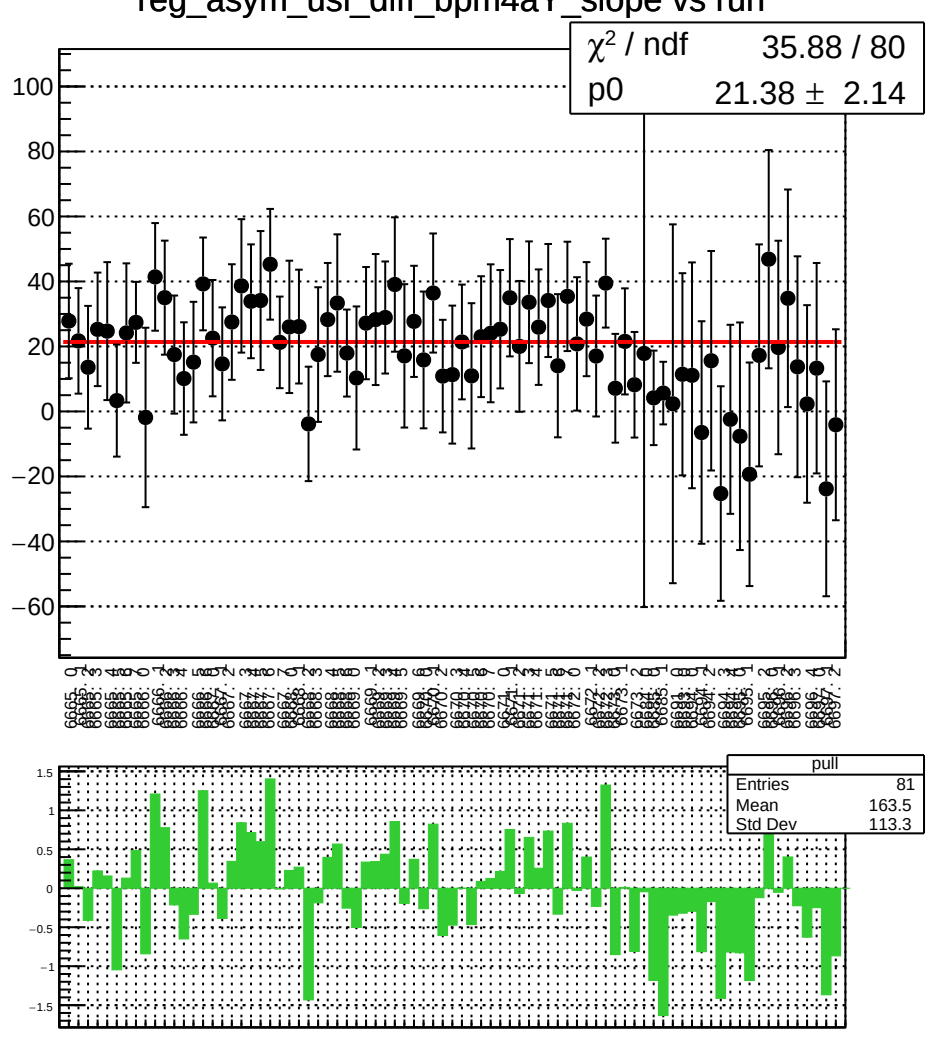

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 573.4 / 80
p0 41.45 ± 0.2355
pull
Entries 81
Mean 96.81
Std Dev 40.95
pull1D
Entries 81
Mean −0.7096
Std Dev 2.564

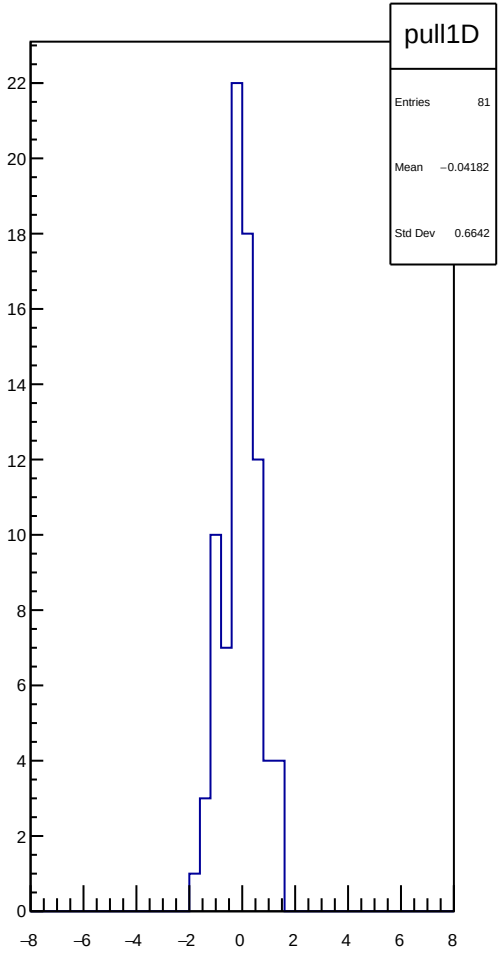

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 266.4 / 80
p0 0.3983 ± 0.01052
pull
Entries 81
Mean 295.8
Std Dev 246.8

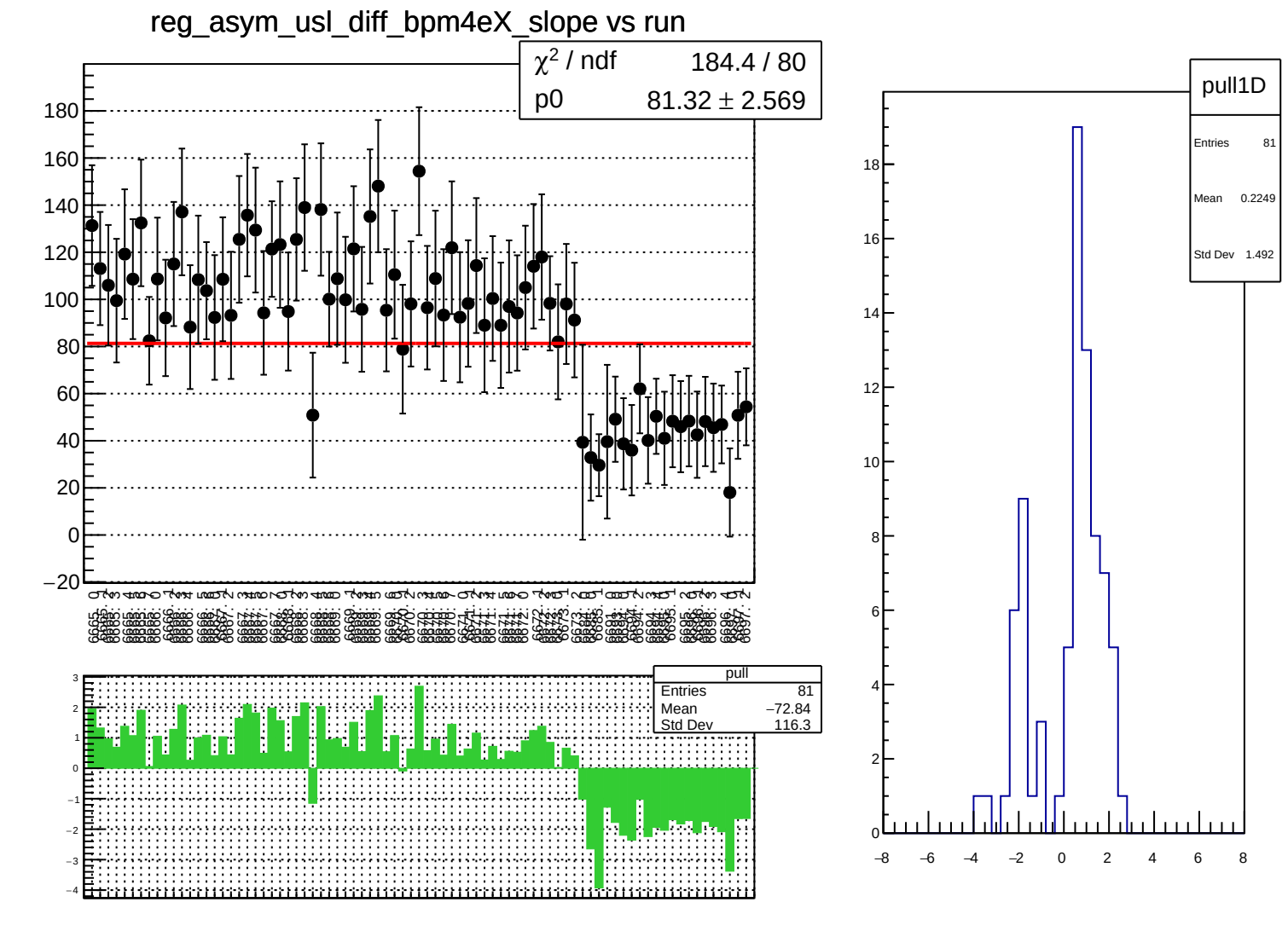

pull1D
Entries 81
Mean −0.1219
Std Dev 1.809

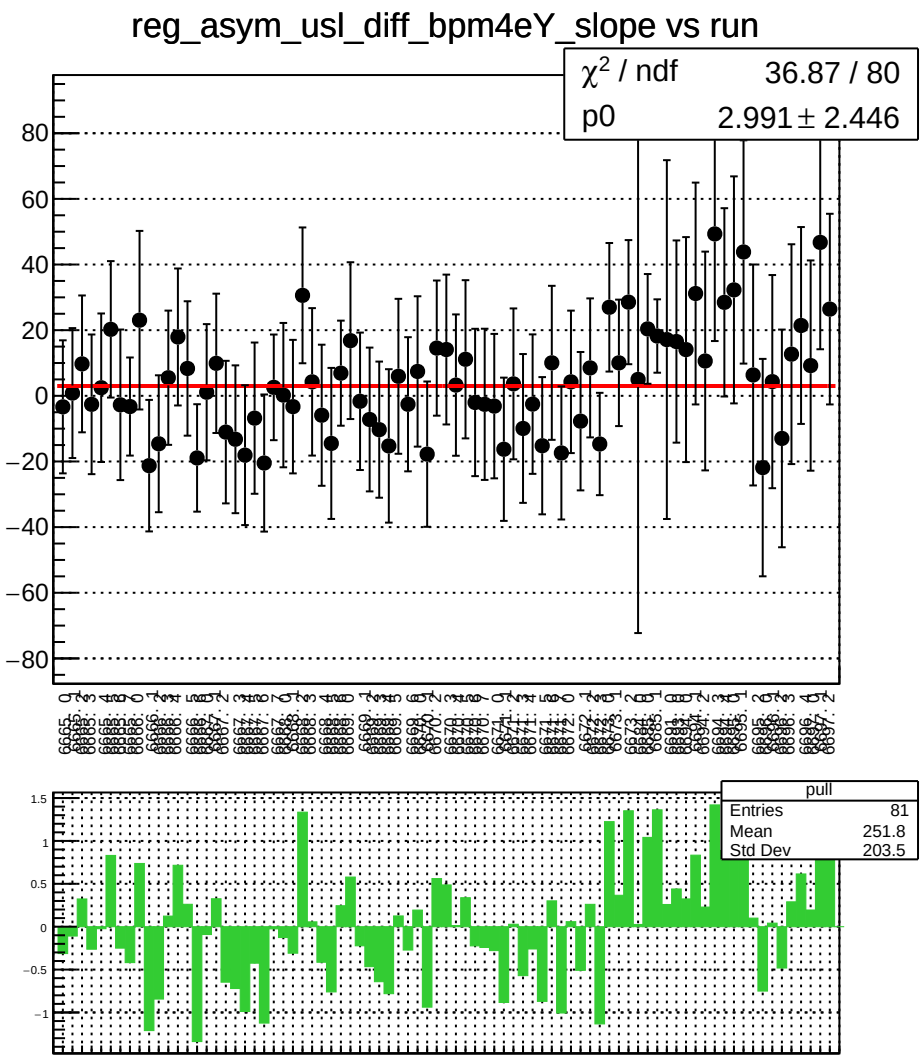

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 93.83 / 80
p0 −132.8 ± 2.476
pull
Entries 81
Mean −139.7
Std Dev 183.5

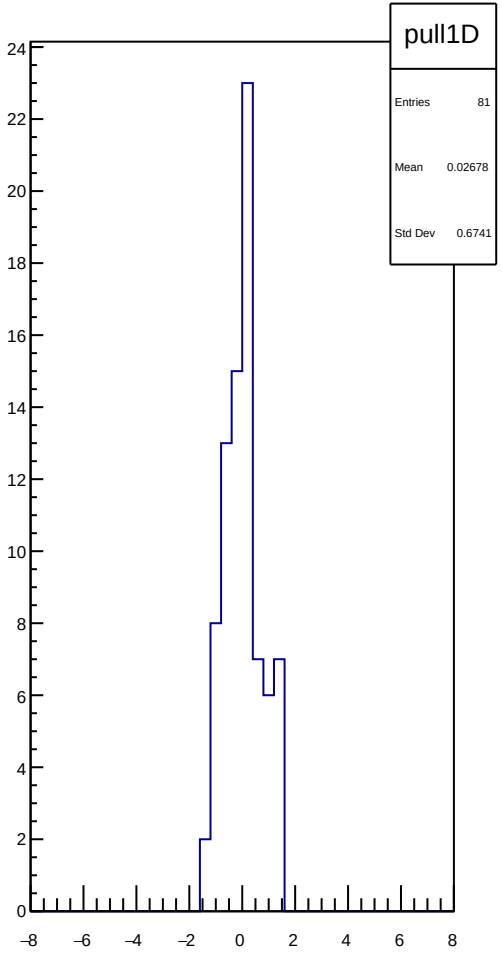

pull1D
Entries 81
Mean −0.09022
Std Dev 1.073

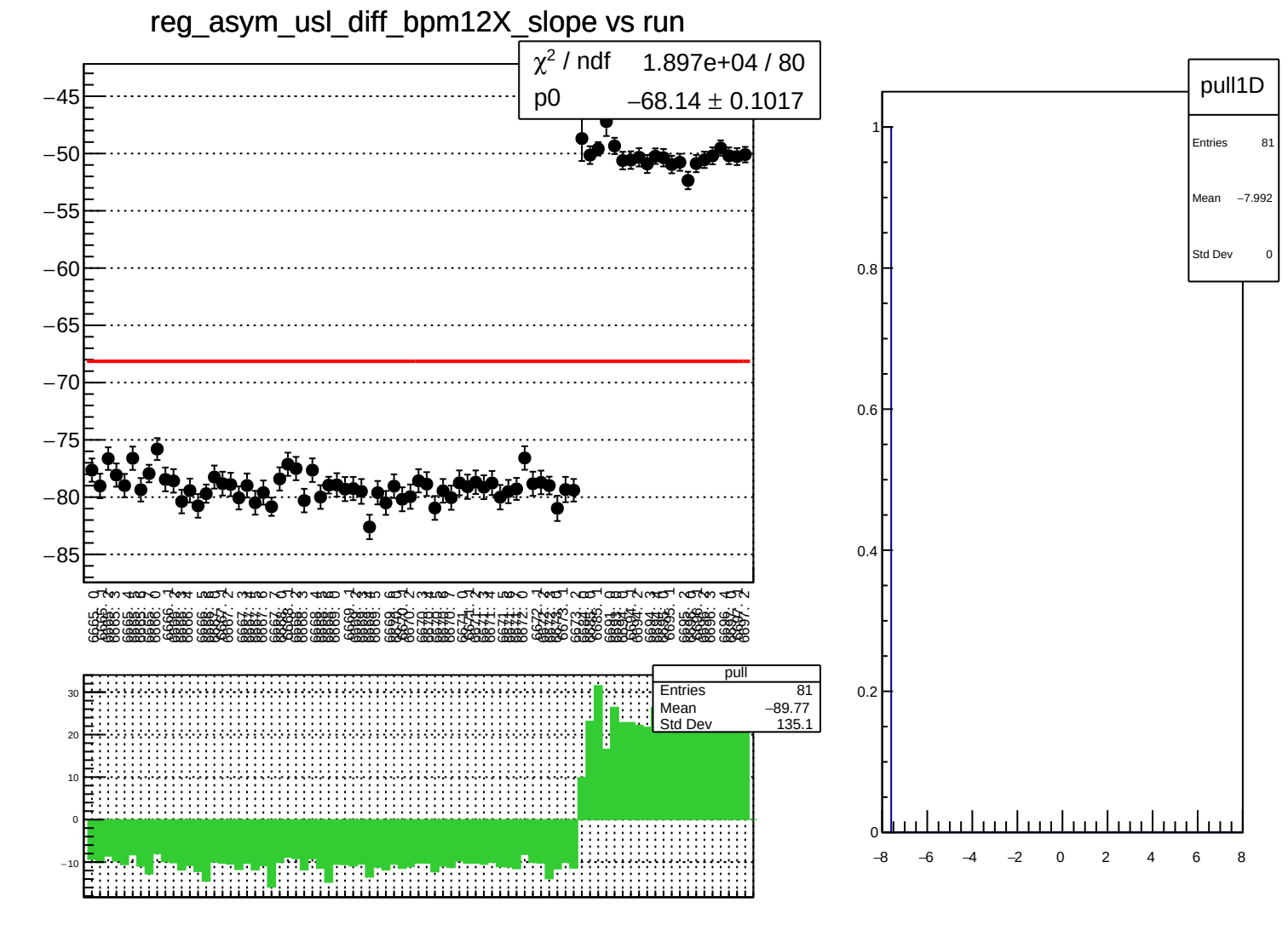

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 35.88 / 80
p0 21.38 ± 2.14
pull
Entries 81
Mean 163.5
Std Dev 113.3

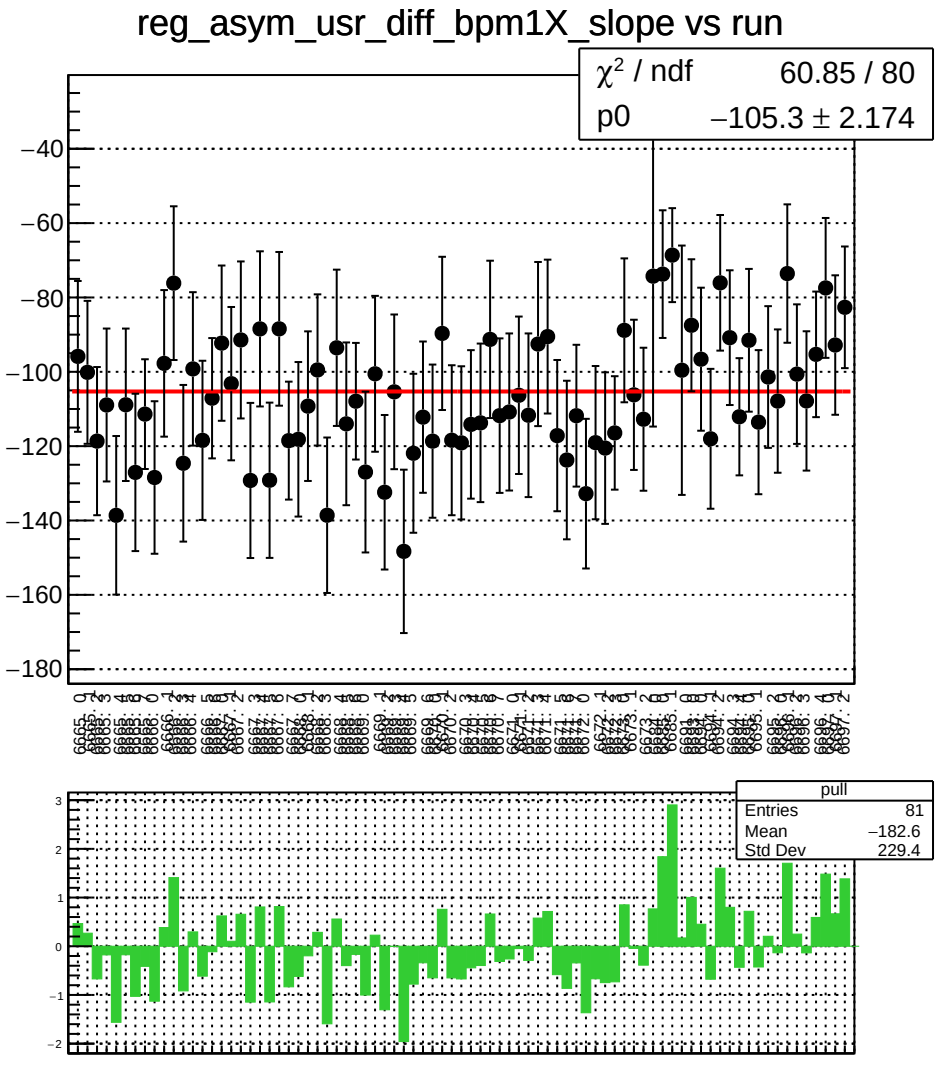

pull1D
Entries 81
Mean −0.04182
Std Dev 0.6642

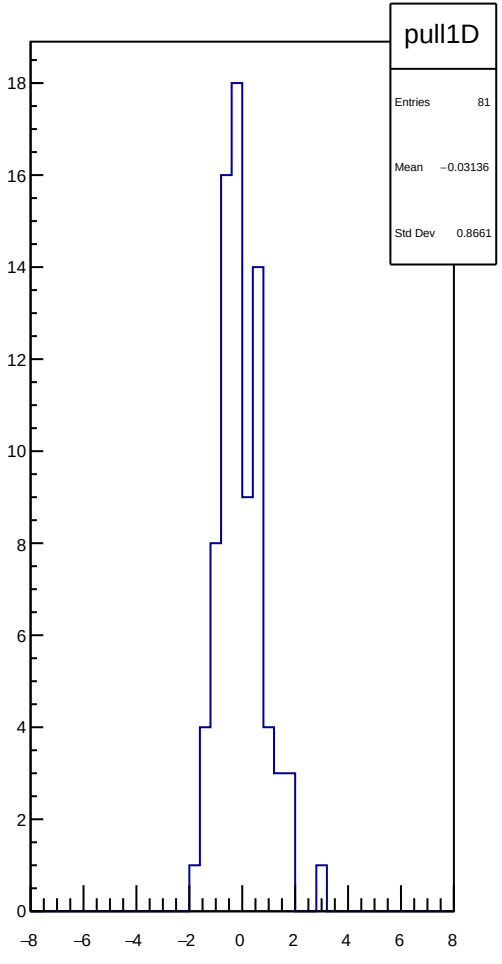

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 184.4 / 80
p0 81.32 ± 2.569
pull
Entries 81
Mean −72.84
Std Dev 116.3
pull1D
Entries 81
Mean 0.2249
Std Dev 1.492

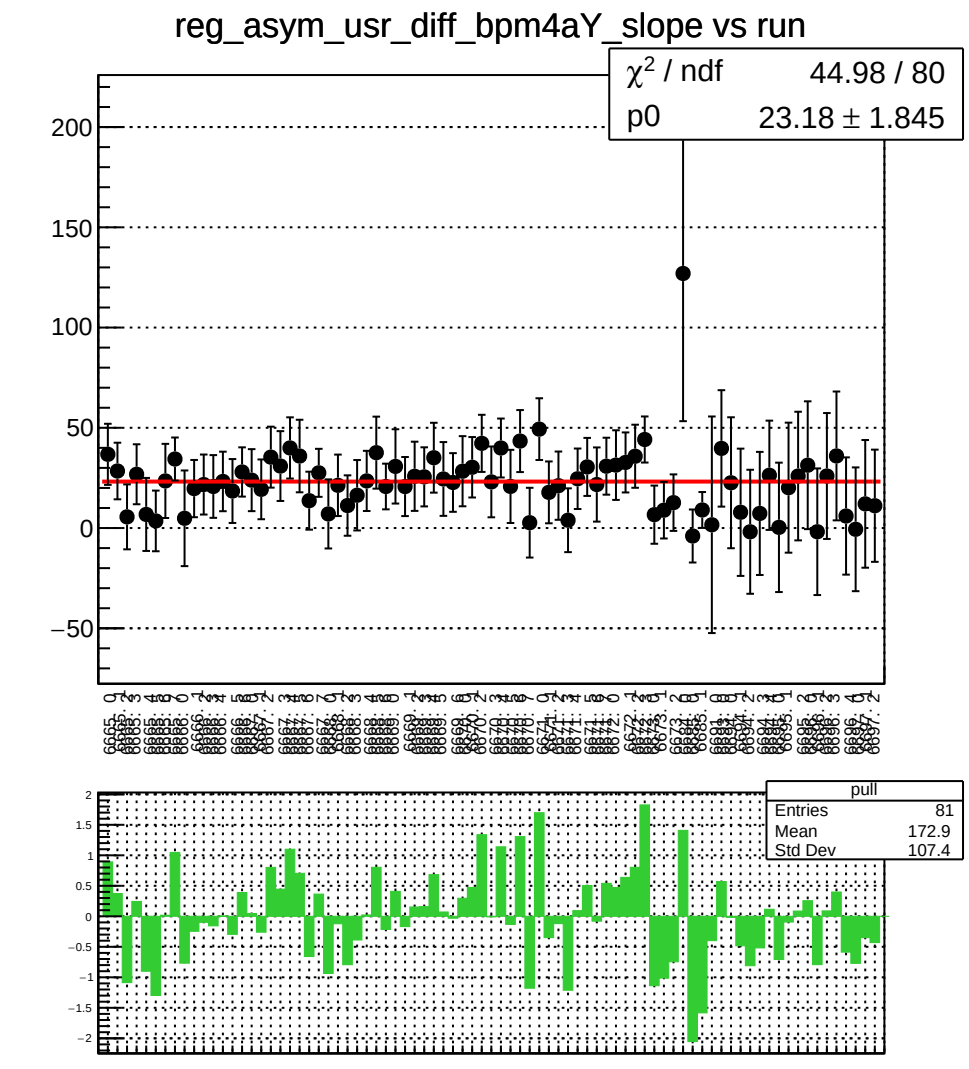

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 36.87 / 80
p0 2.991 ± 2.446
pull
Entries 81
Mean 251.8
Std Dev 203.5

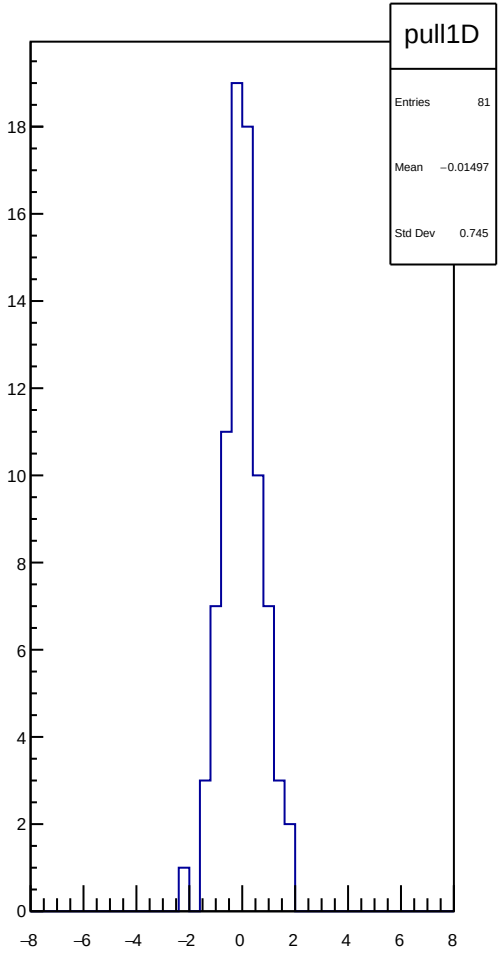

pull1D
Entries 81
Mean 0.02678
Std Dev 0.6741

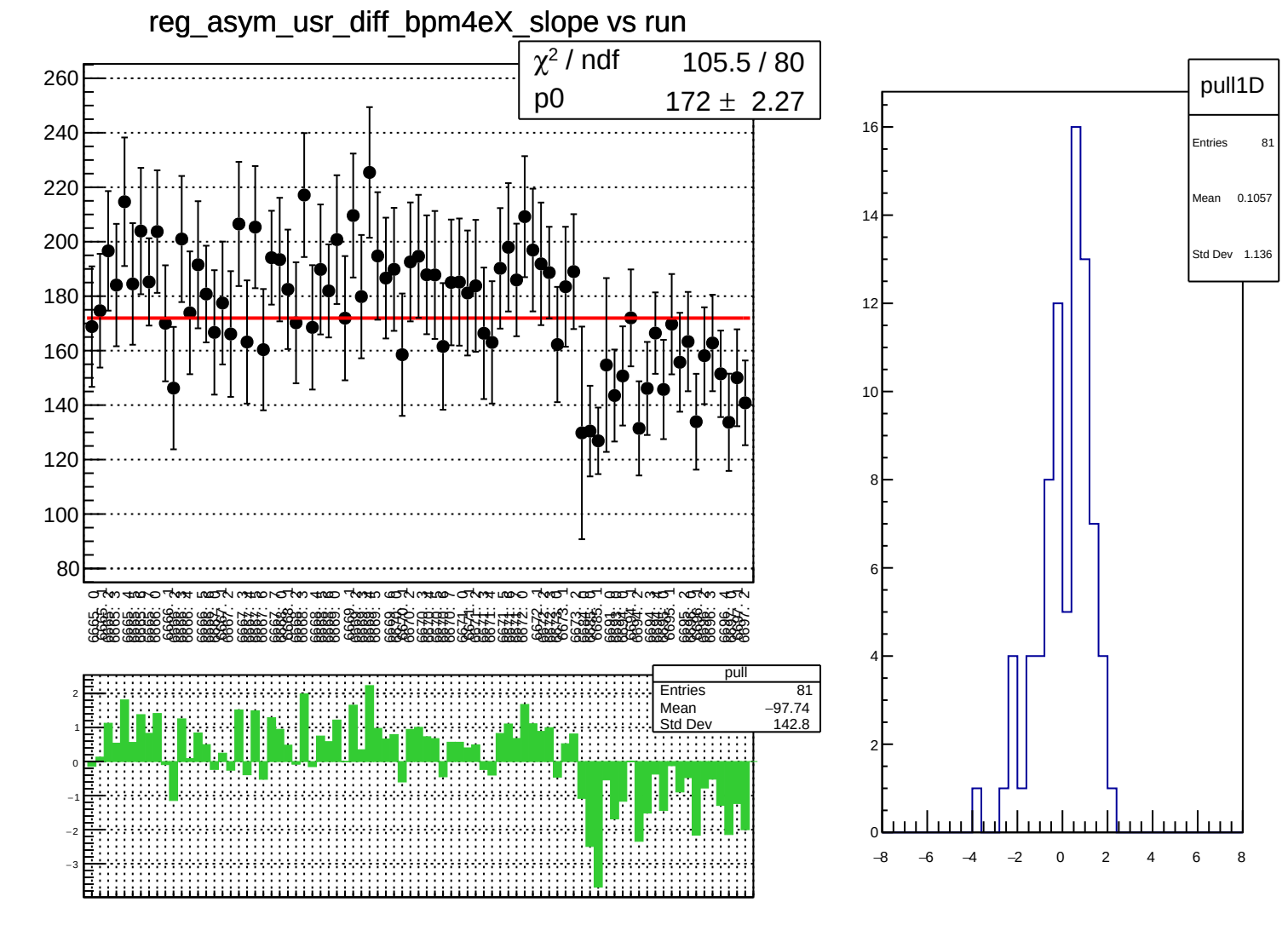

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 1.897e+04 / 80
p0 −68.14 ± 0.1017
pull
Entries 81
Mean −89.77
Std Dev 135.1
pull1D
Entries 81
Mean −7.992
Std Dev 0

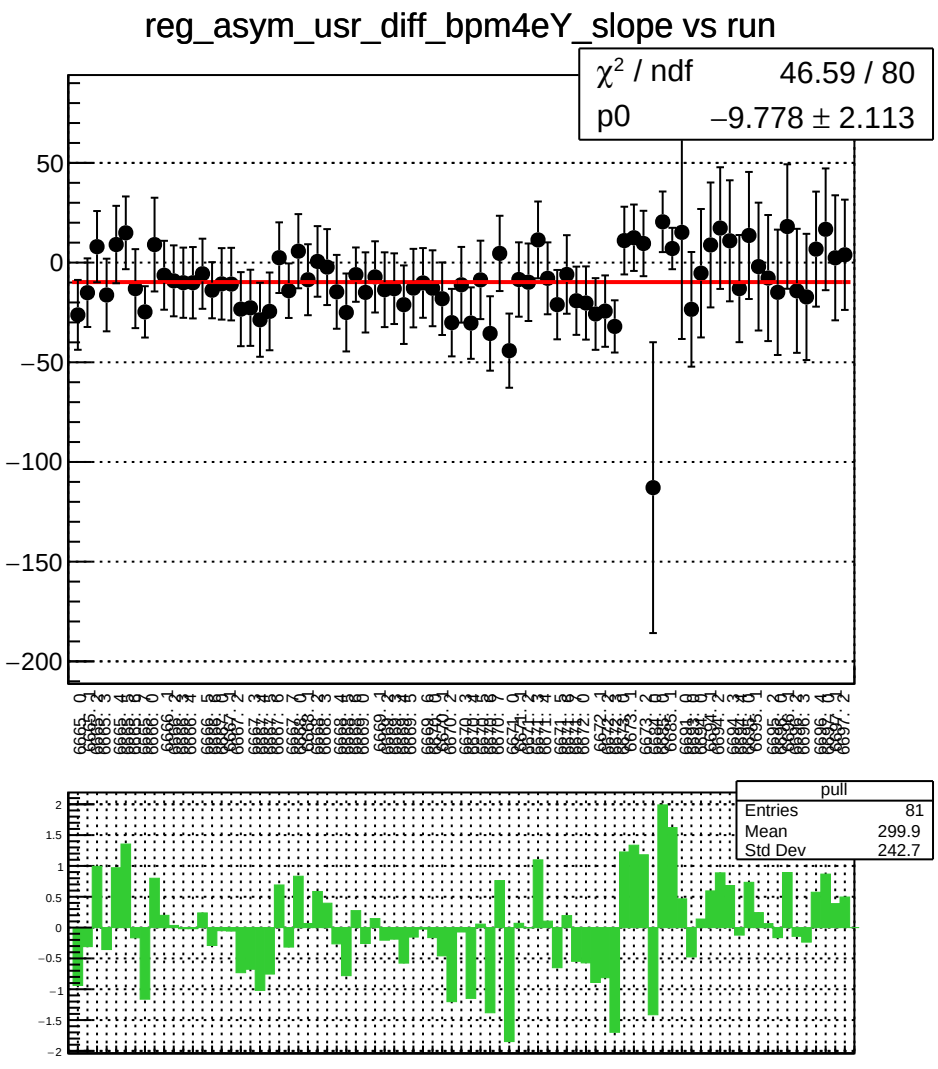

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 60.85 / 80
p0 −105.3 ± 2.174
pull
Entries 81
Mean −182.6
Std Dev 229.4

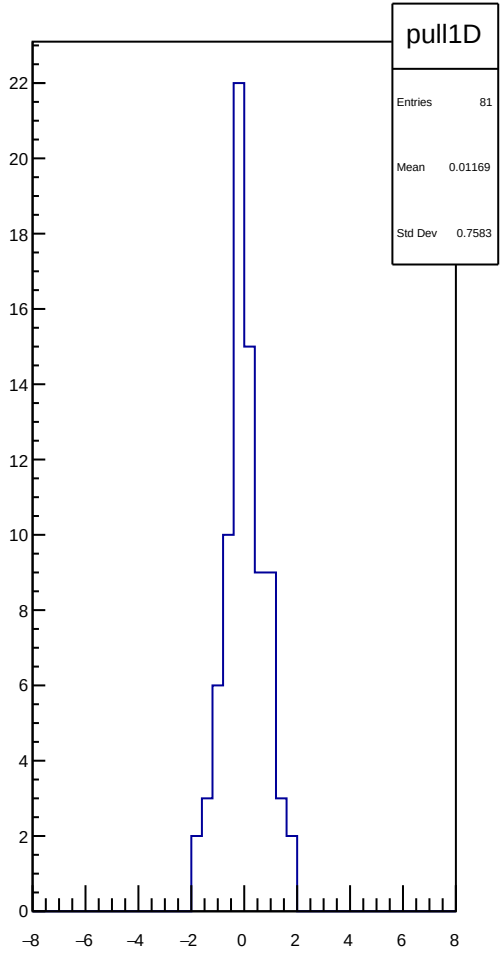

pull1D
Entries 81
Mean −0.03136
Std Dev 0.8661

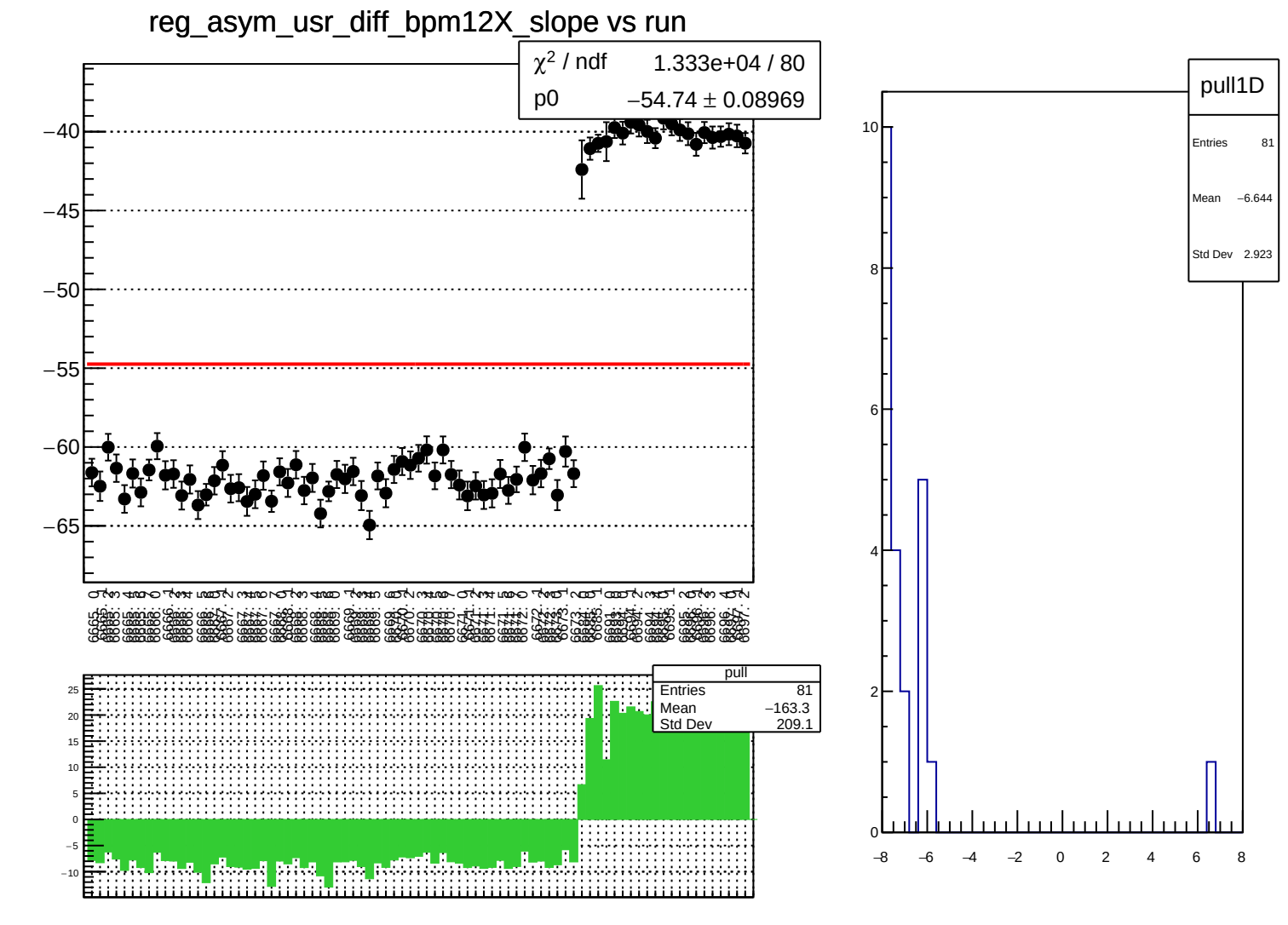

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 44.98 / 80
p0 23.18 ± 1.845
pull
Entries 81
Mean 172.9
Std Dev 107.4

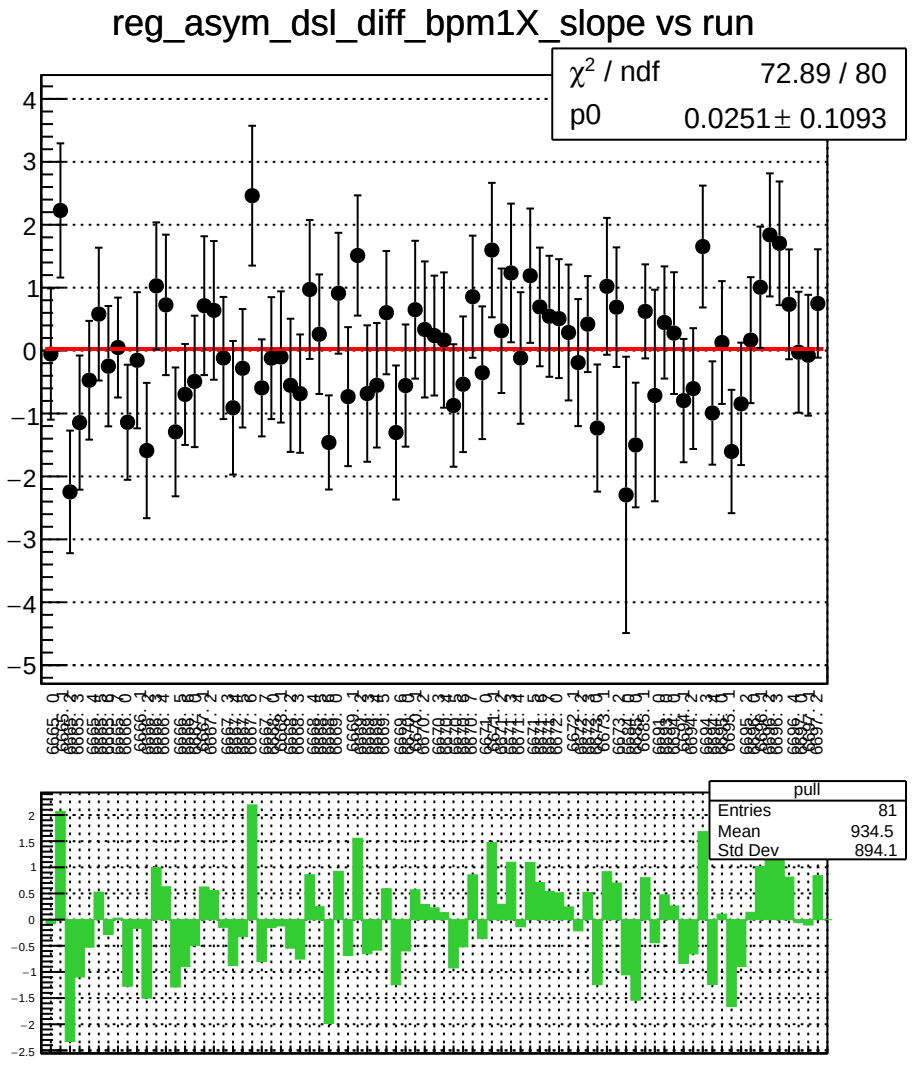

pull1D
Entries 81
Mean −0.01497
Std Dev 0.745

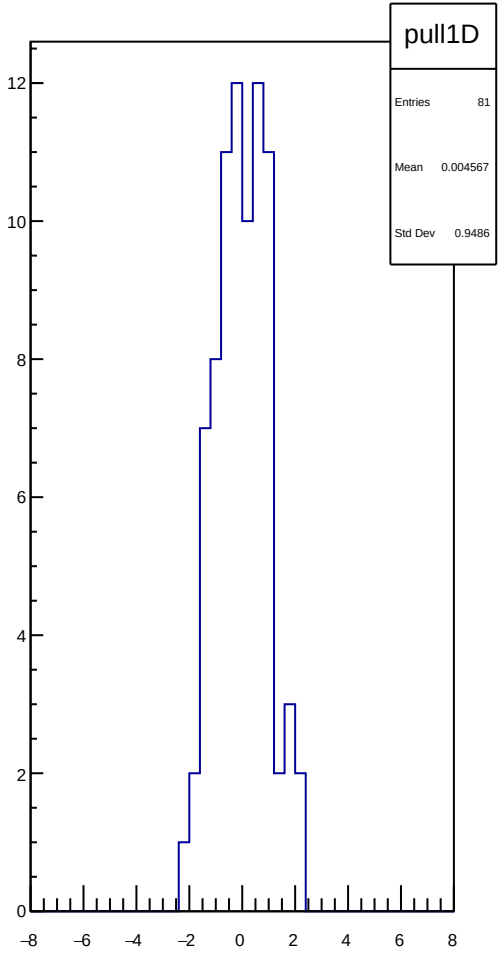

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 105.5 / 80
p0 172 ± 2.27
pull
Entries 81
Mean −97.74
Std Dev 142.8
pull1D
Entries 81
Mean 0.1057
Std Dev 1.136

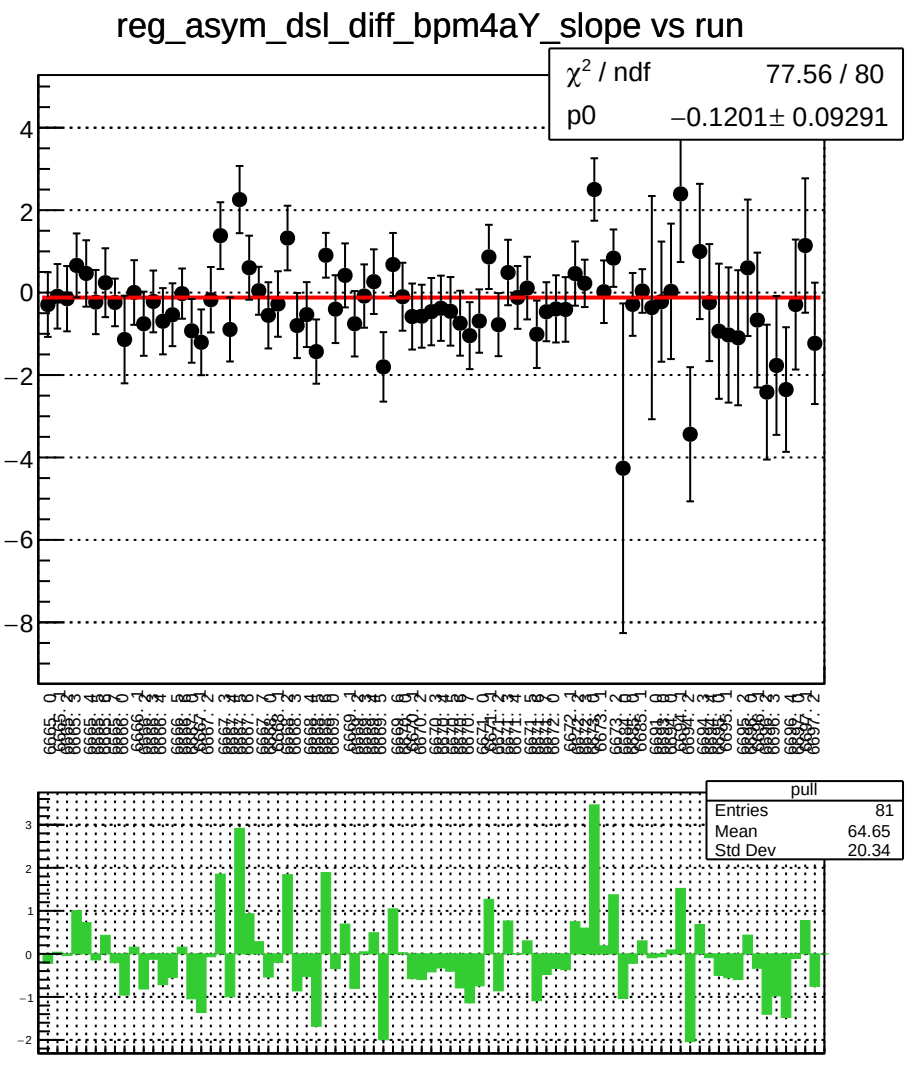

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 46.59 / 80
p0 −9.778 ± 2.113
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 299.9
Std Dev 242.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

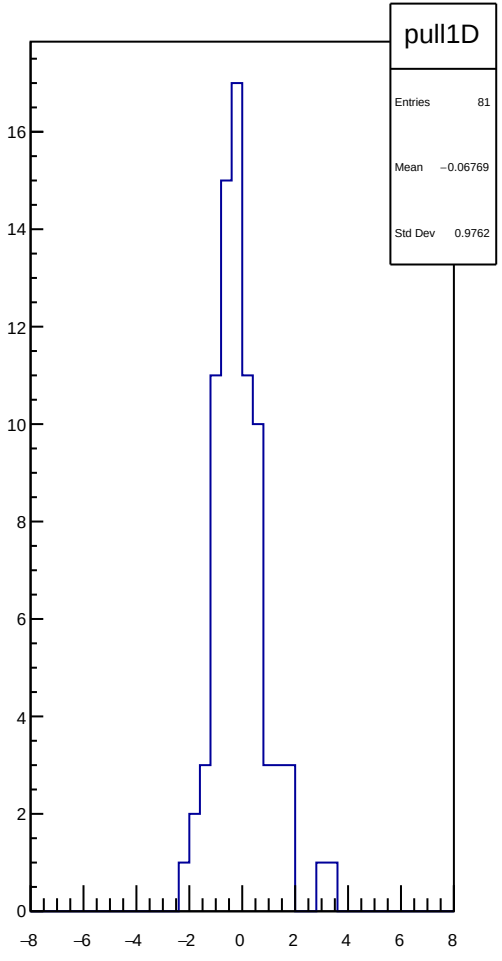

pull1D
Entries 81
Mean 0.01169
Std Dev 0.7583
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

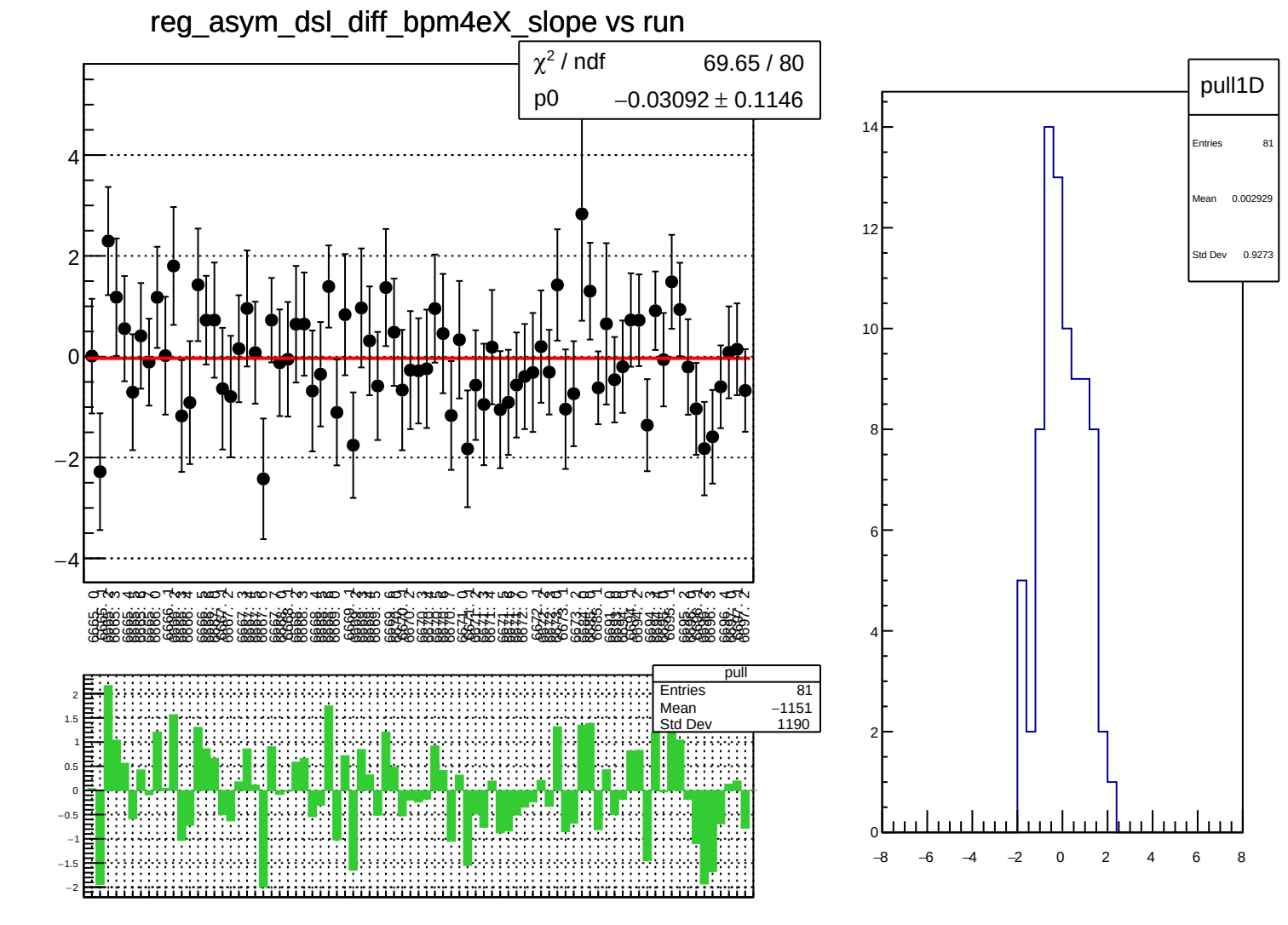

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 1.333e+04 / 80
p0 −54.74 ± 0.08969
−40
−45
−50
−55
−60
−65
pull
Entries 81
Mean −163.3
Std Dev 209.1
25
20
15
10
5
0
−5
−10
pull1D
Entries 81
Mean −6.644
Std Dev 2.923
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

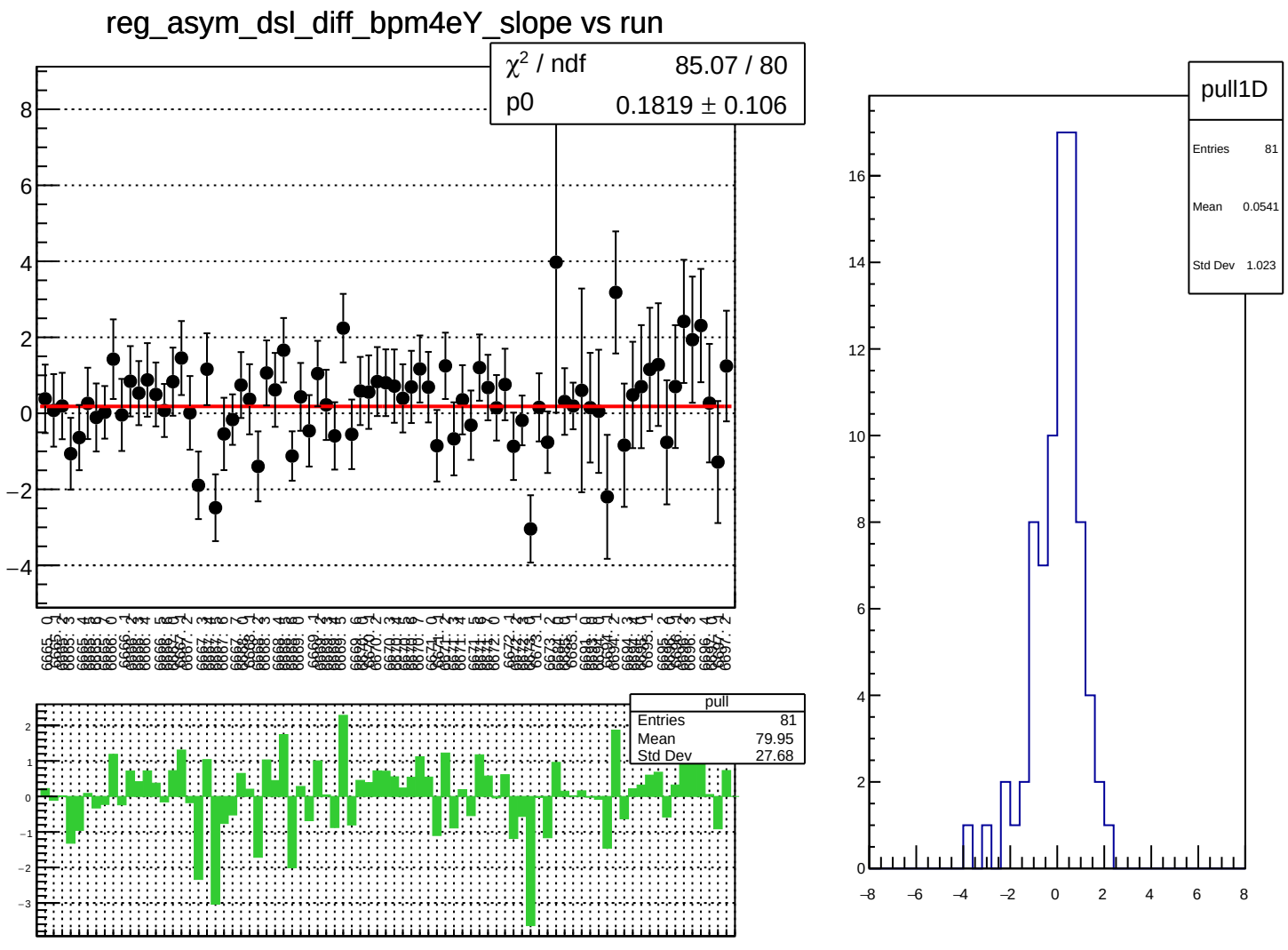

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 72.89 / 80
p0 0.0251 ± 0.1093
pull
Entries 81
Mean 934.5
Std Dev 894.1

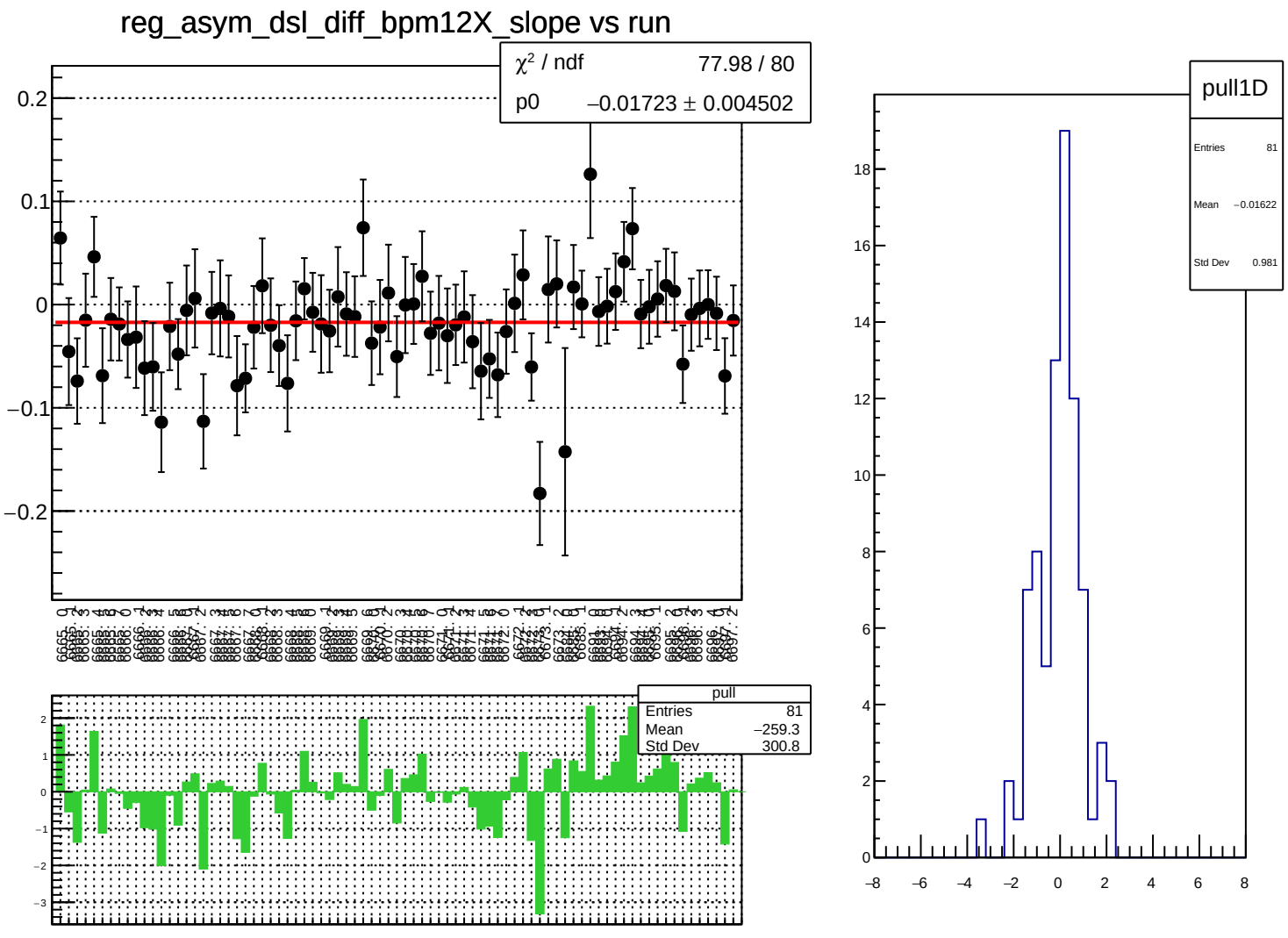

pull1D
Entries 81
Mean 0.004567
Std Dev 0.9486

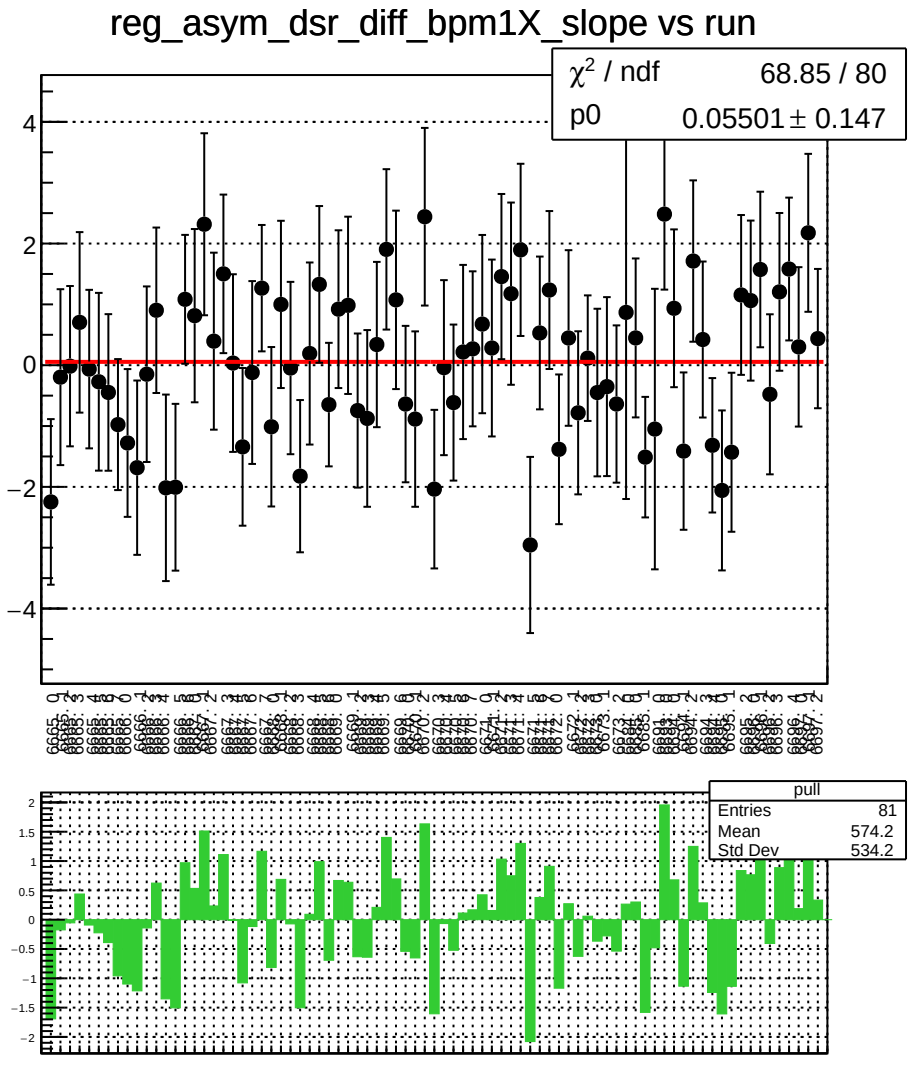

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 77.56 / 80
p0 −0.1201± 0.09291
pull
Entries 81
Mean 64.65
Std Dev 20.34

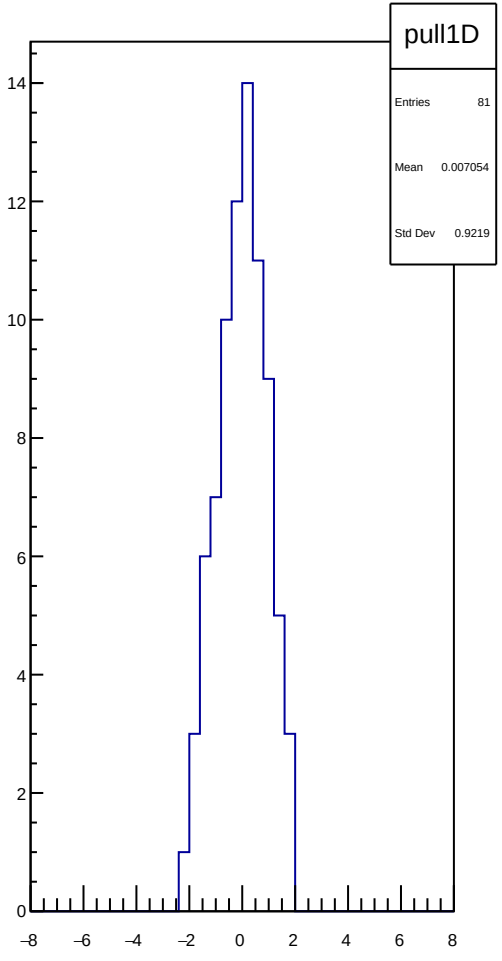

pull1D
Entries 81
Mean −0.06769
Std Dev 0.9762

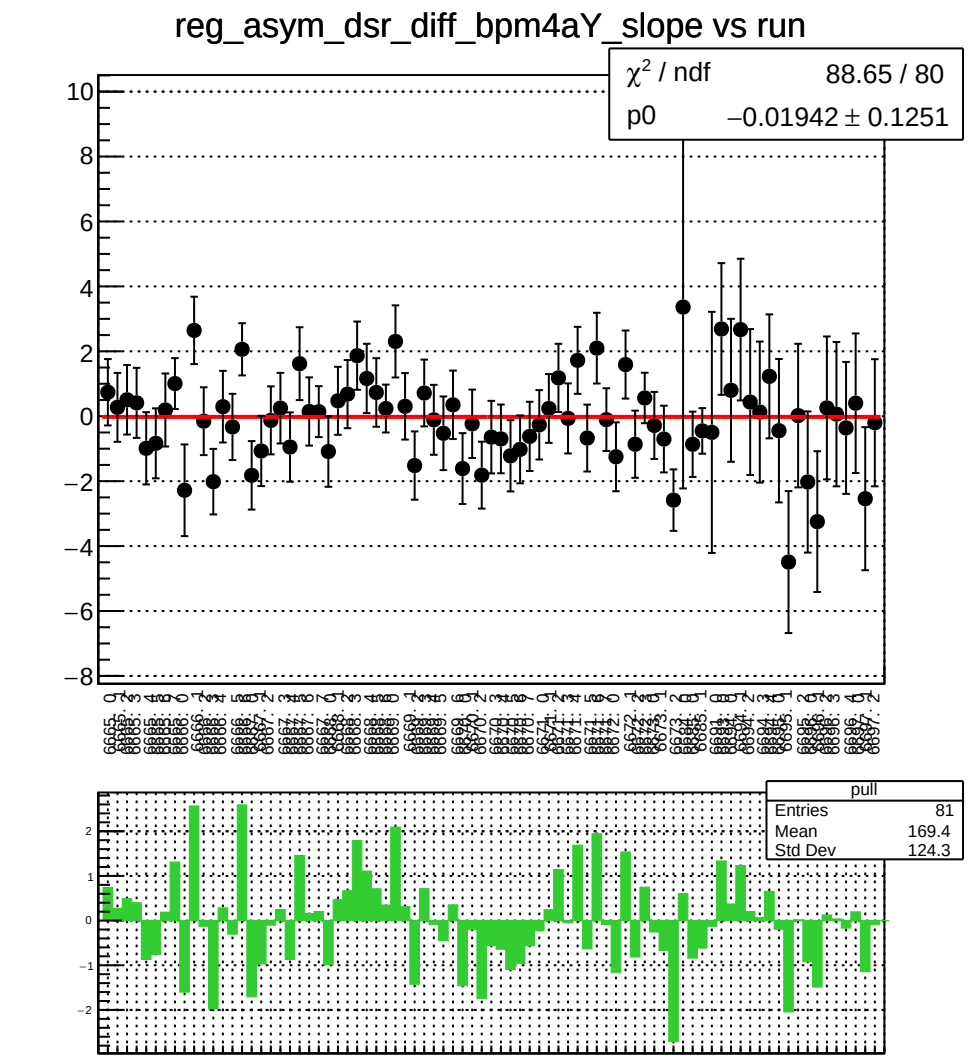

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 69.65 / 80
p0 −0.03092 ± 0.1146
pull
Entries 81
Mean −1151
Std Dev 1190
pull1D
Entries 81
Mean 0.002929
Std Dev 0.9273

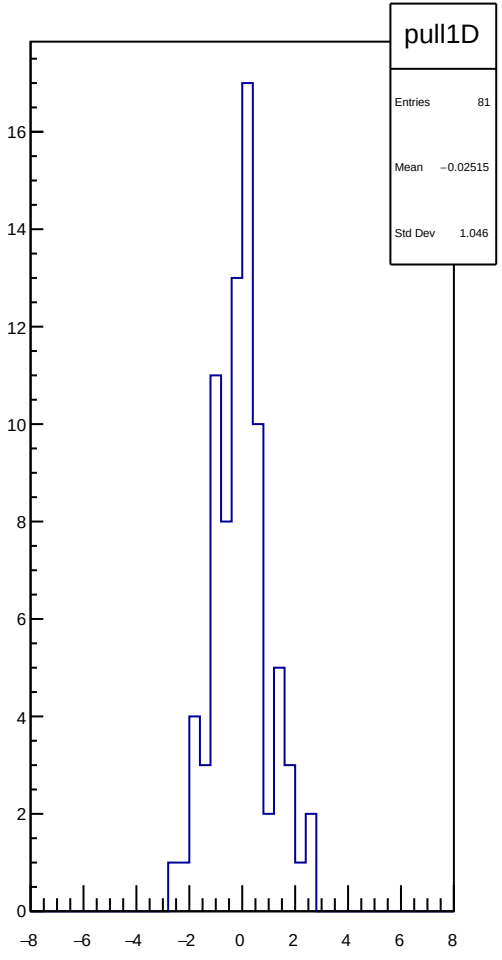

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 85.07 / 80
p0 0.1819 ± 0.106
pull
Entries 81
Mean 79.95
Std Dev 27.68
pull1D
Entries 81
Mean 0.0541
Std Dev 1.023

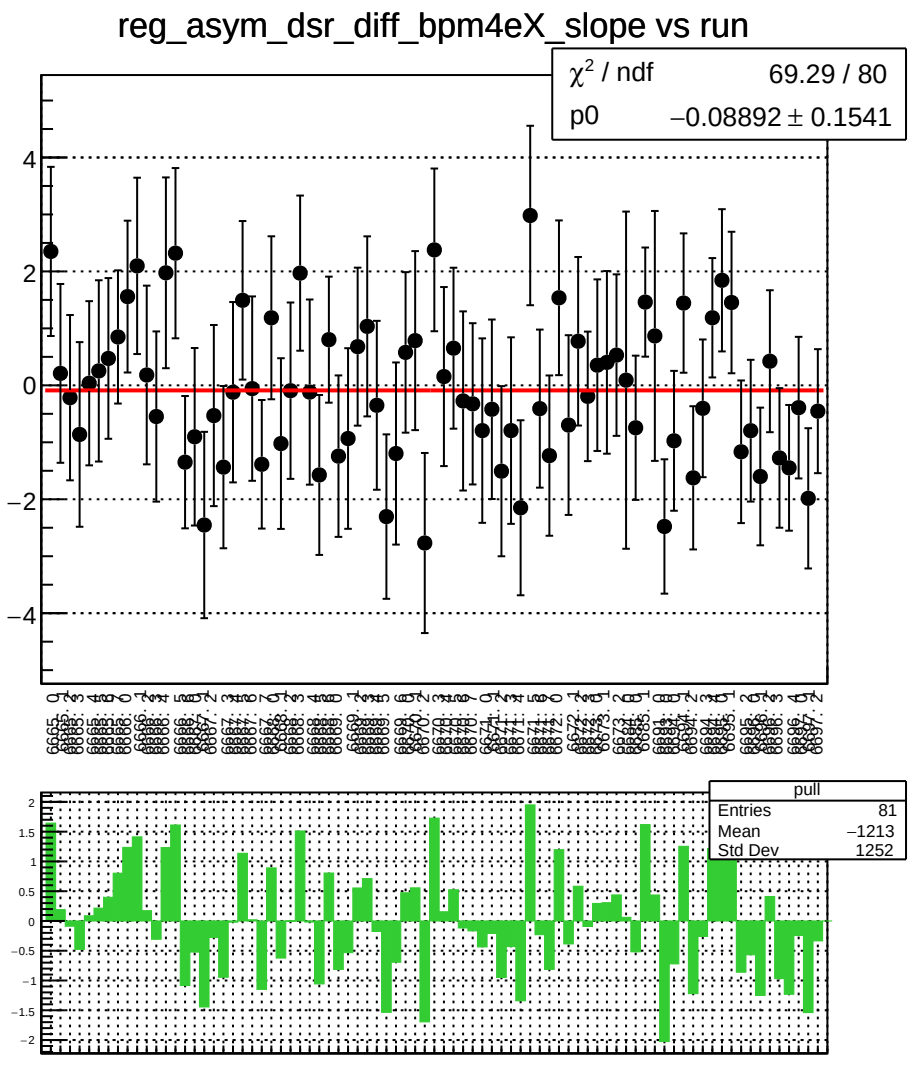

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 77.98 / 80
p0 −0.01723 ± 0.004502
0.2
0.1
0
−0.1
−0.2
pull
Entries 81
Mean −259.3
Std Dev 300.8
2
1
0
−1
−2
−3
pull1D
Entries 81
Mean −0.01622
Std Dev 0.981
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

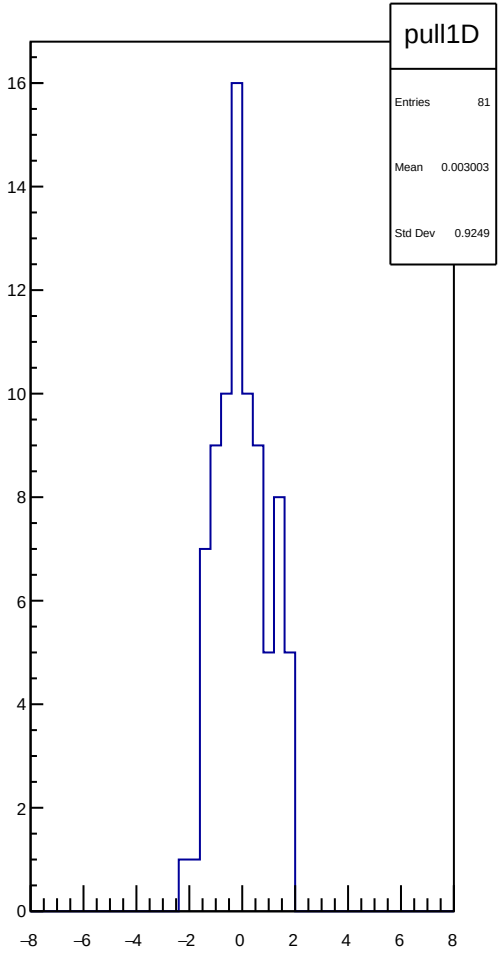

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 68.85 / 80
p0 0.05501 ± 0.147
pull
Entries 81
Mean 574.2
Std Dev 534.2

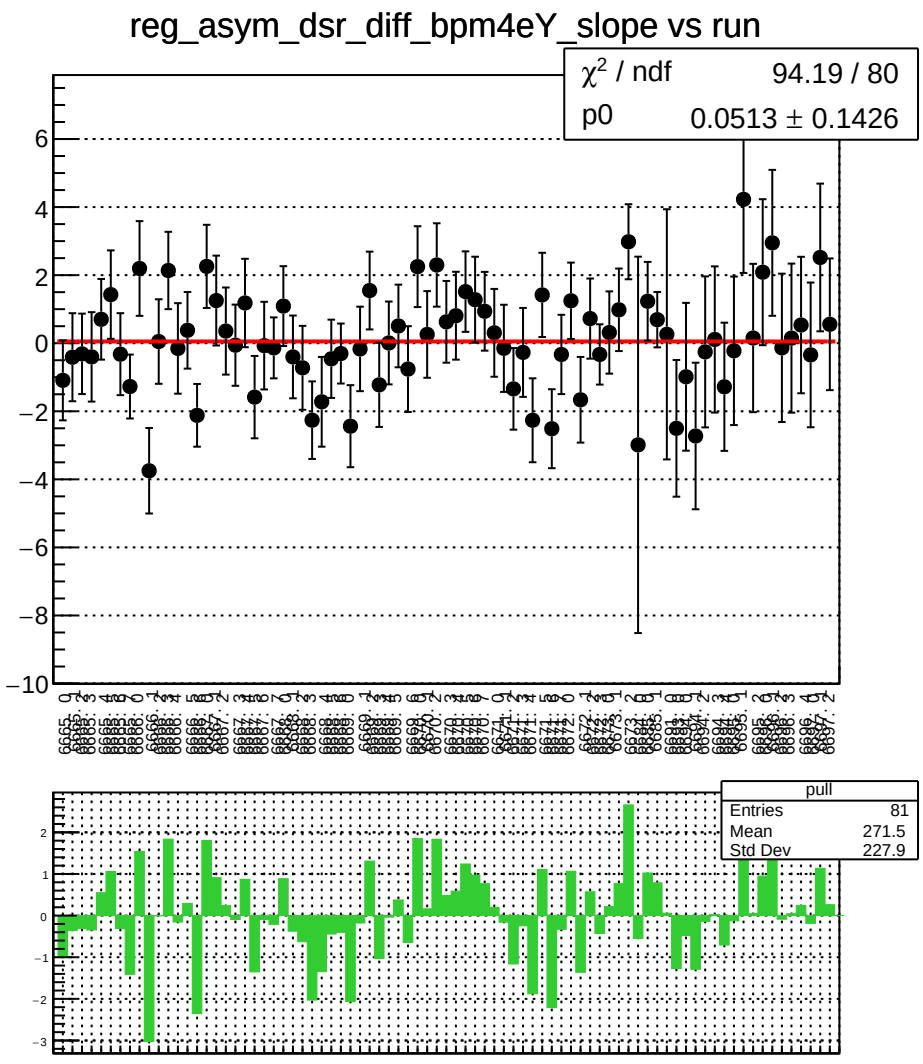

pull1D
Entries 81
Mean 0.007054
Std Dev 0.9219

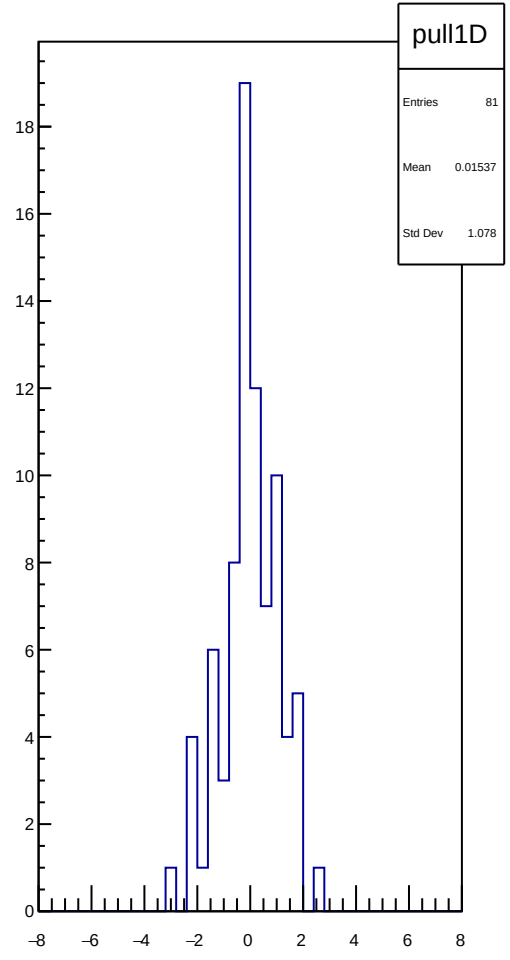

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 88.65 / 80
p0 −0.01942 ± 0.1251
pull
Entries 81
Mean 169.4
Std Dev 124.3

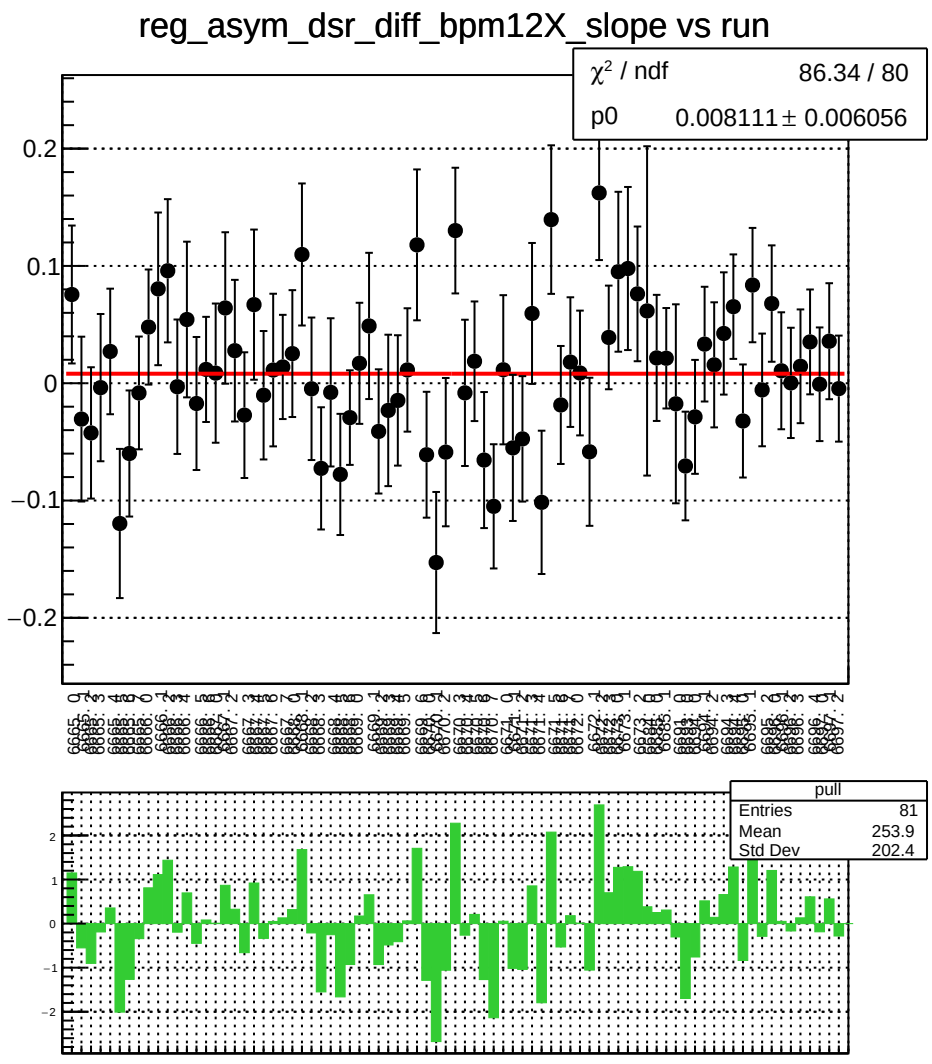

pull1D
Entries 81
Mean −0.02515
Std Dev 1.046

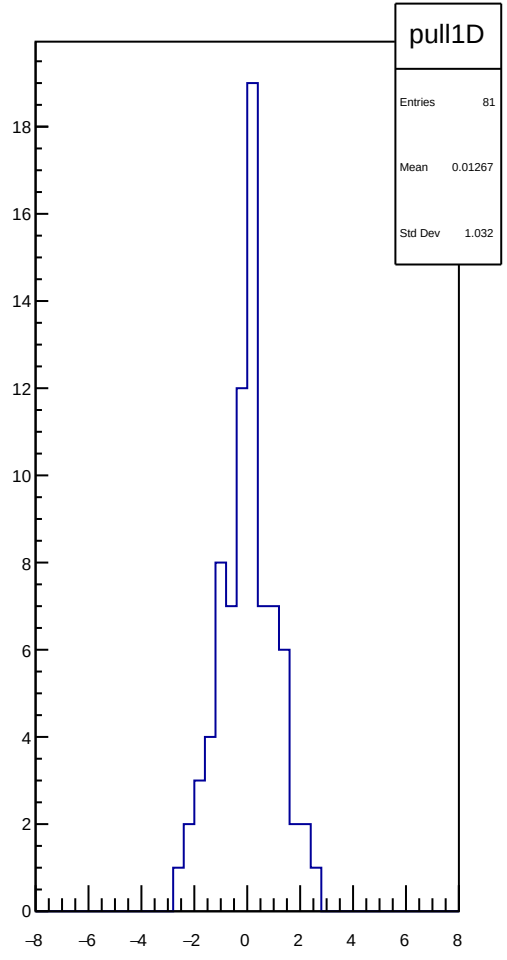

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 69.29 / 80
p0 −0.08892 ± 0.1541
pull
Entries 81
Mean −1213
Std Dev 1252

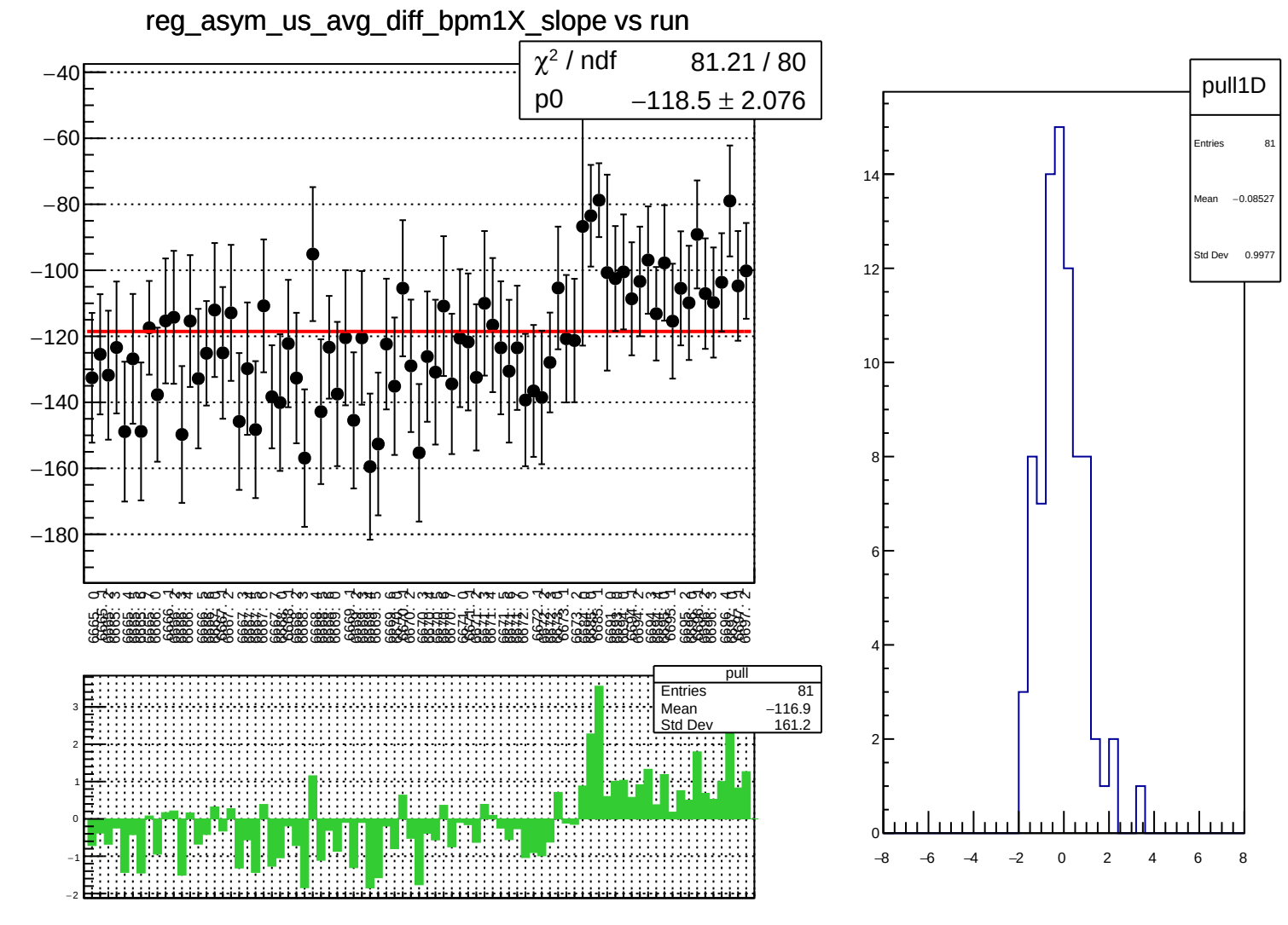

pull1D
Entries 81
Mean 0.003003
Std Dev 0.9249

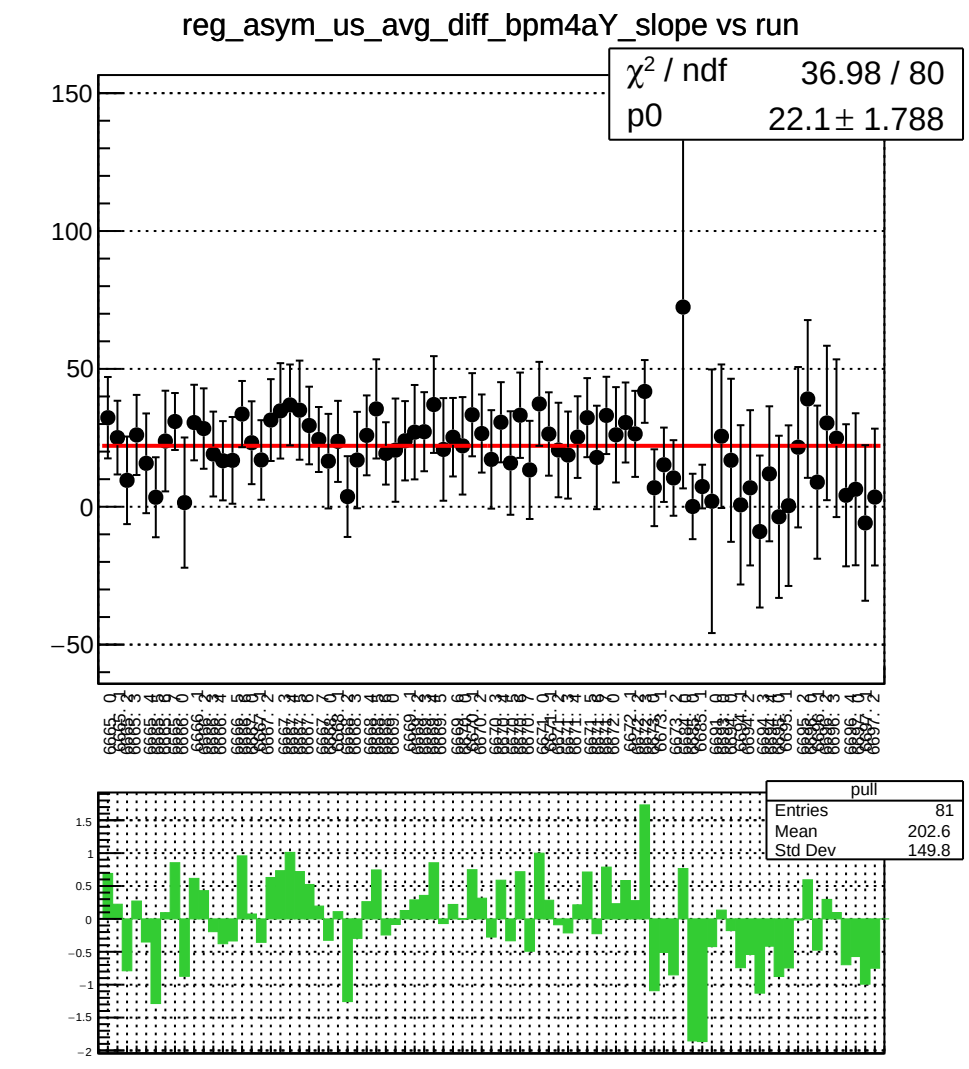

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 94.19 / 80
p0 0.0513 ± 0.1426
pull
Entries 81
Mean 271.5
Std Dev 227.9

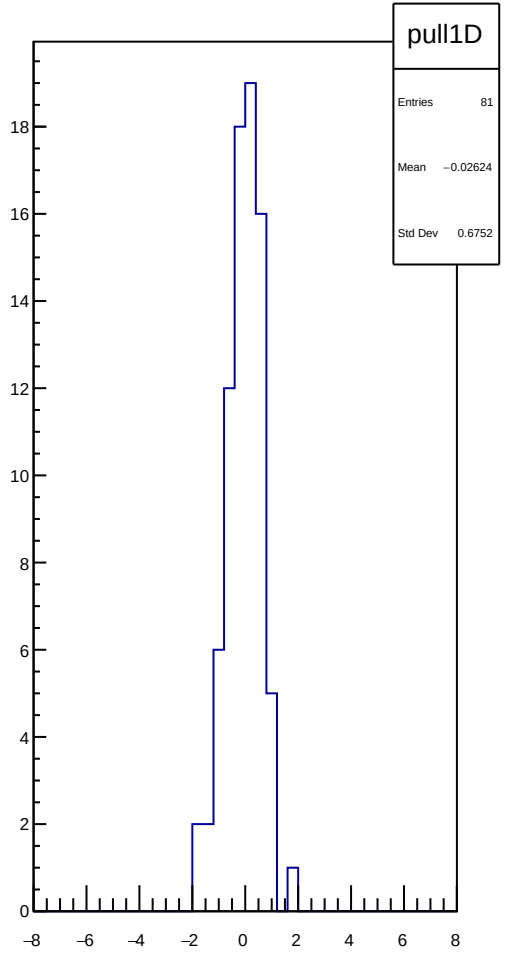

pull1D
Entries 81
Mean 0.01537
Std Dev 1.078

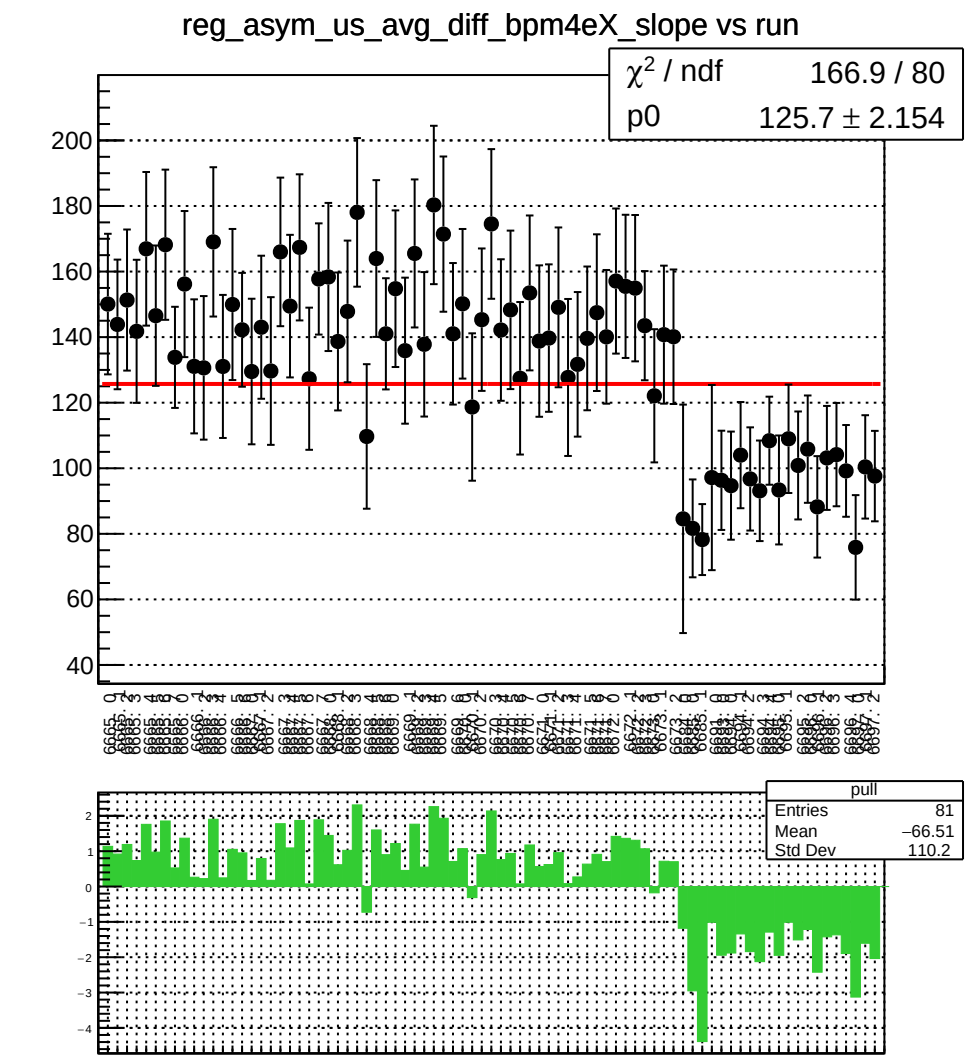

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 86.34 / 80
p0 0.008111 ± 0.006056
pull
Entries 81
Mean 253.9
Std Dev 202.4

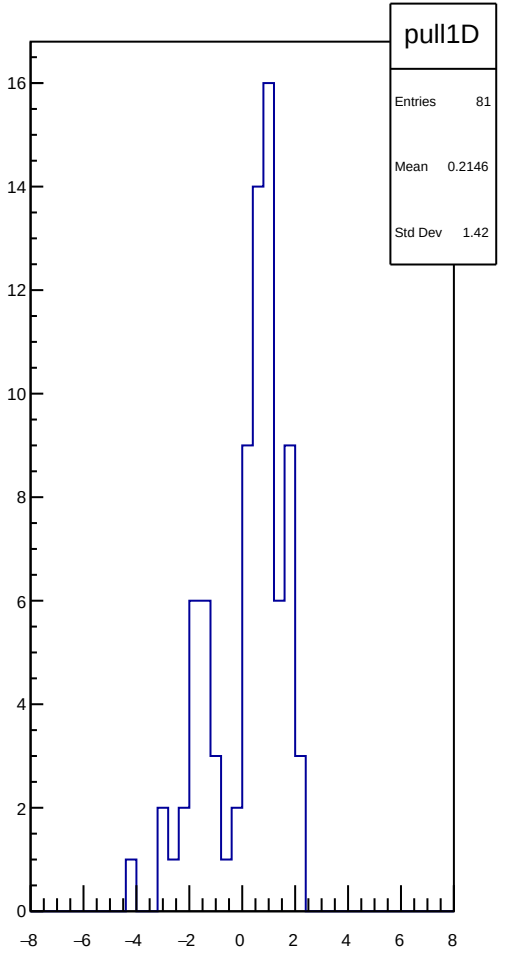

pull1D
Entries 81
Mean 0.01267
Std Dev 1.032

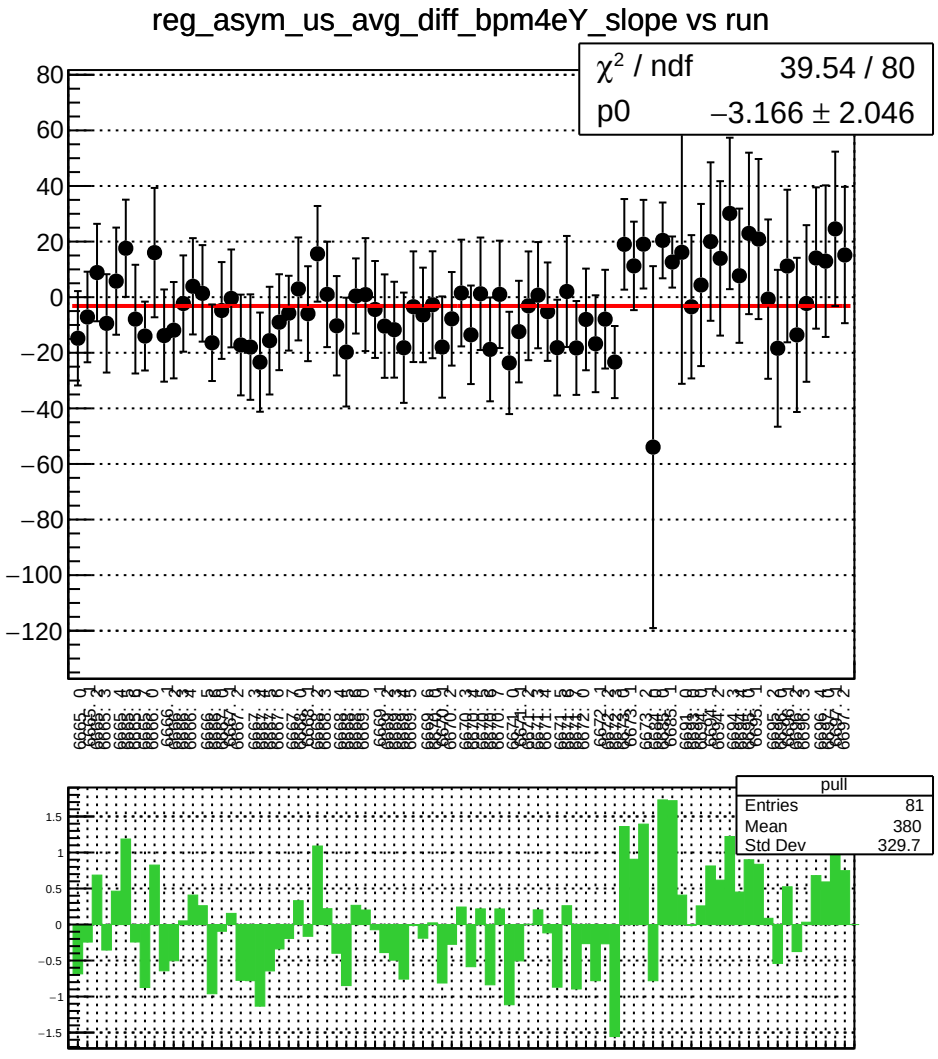

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 81.21 / 80
p0 −118.5 ± 2.076
pull
Entries 81
Mean −116.9
Std Dev 161.2
pull1D
Entries 81
Mean −0.08527
Std Dev 0.9977

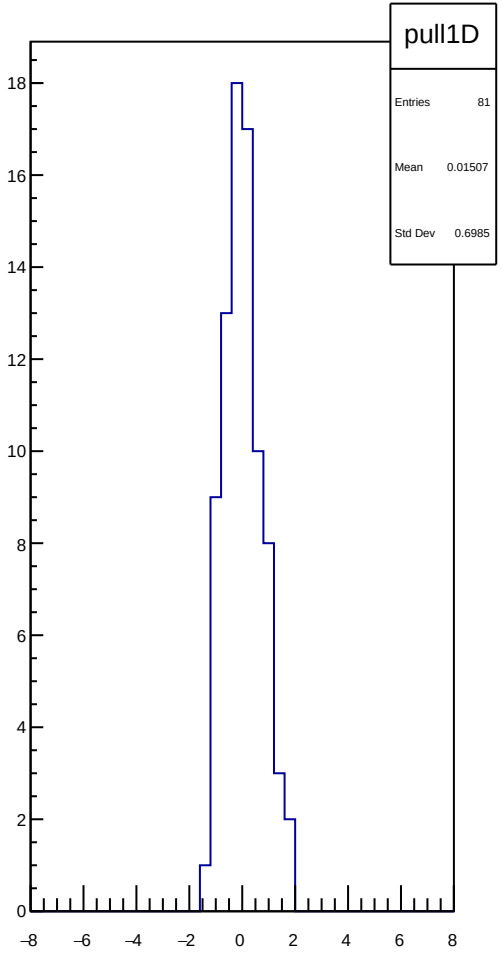

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 36.98 / 80
p0 22.1 ± 1.788
150
100
50
0
−50
pull
Entries 81
Mean 202.6
Std Dev 149.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2

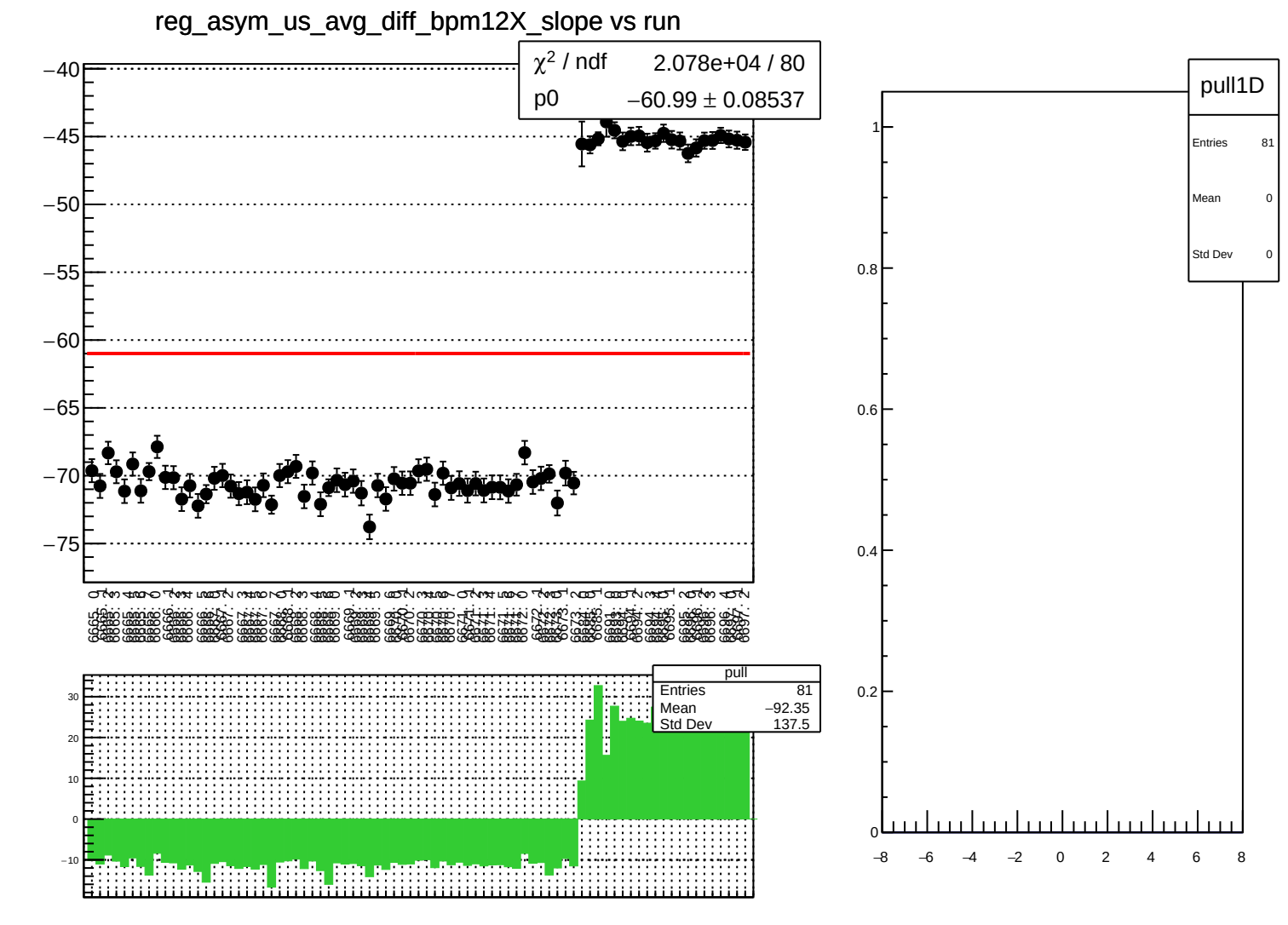

pull1D
Entries 81
Mean −0.02624
Std Dev 0.6752
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

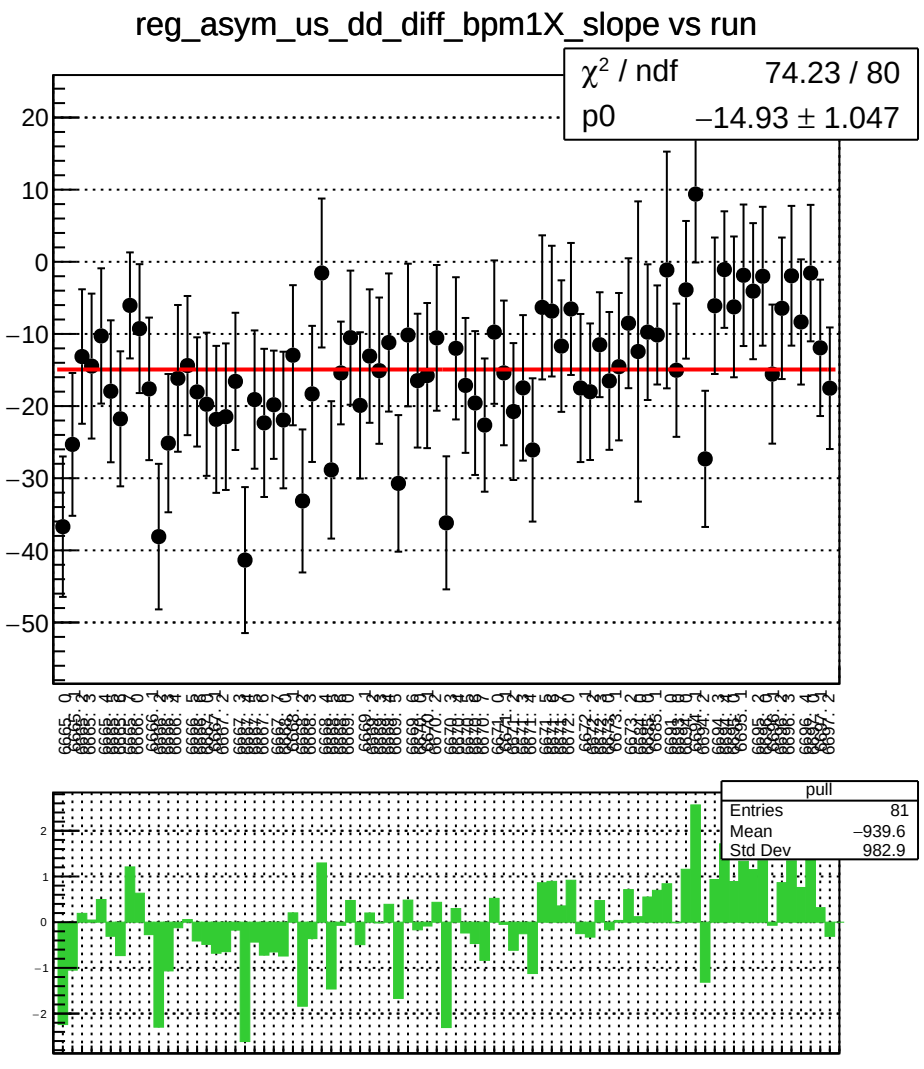

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 166.9 / 80
p0 125.7 ± 2.154
pull
Entries 81
Mean −66.51
Std Dev 110.2

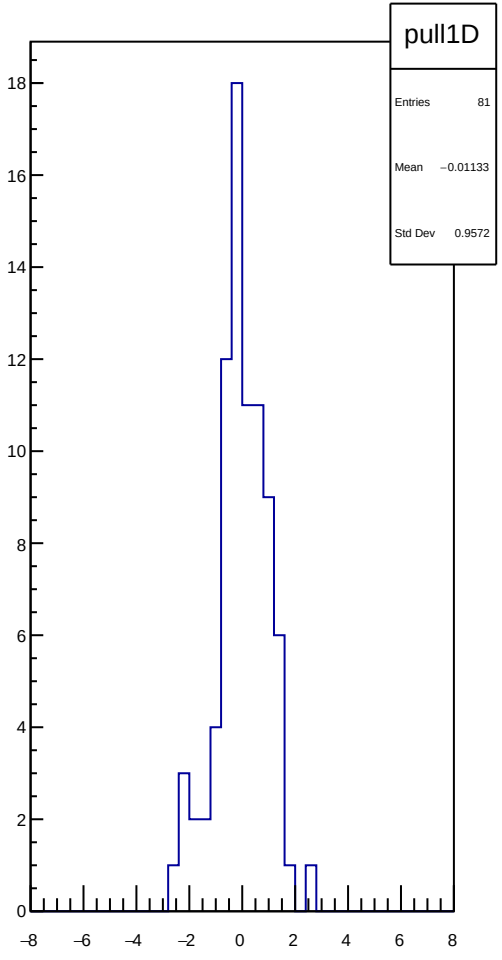

pull1D
Entries 81
Mean 0.2146
Std Dev 1.42

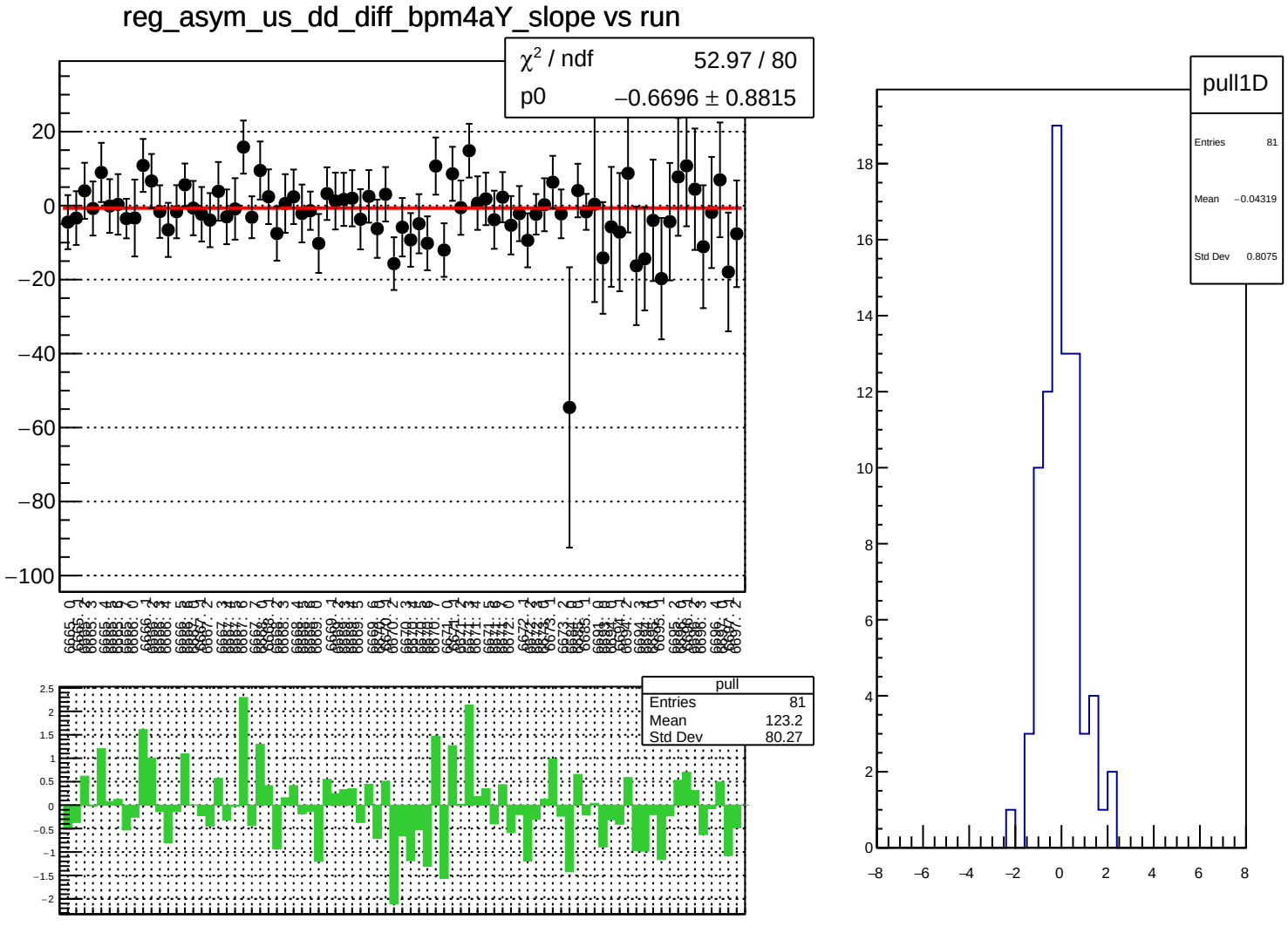

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.54 / 80
p0 −3.166 ± 2.046
pull
Entries 81
Mean 380
Std Dev 329.7

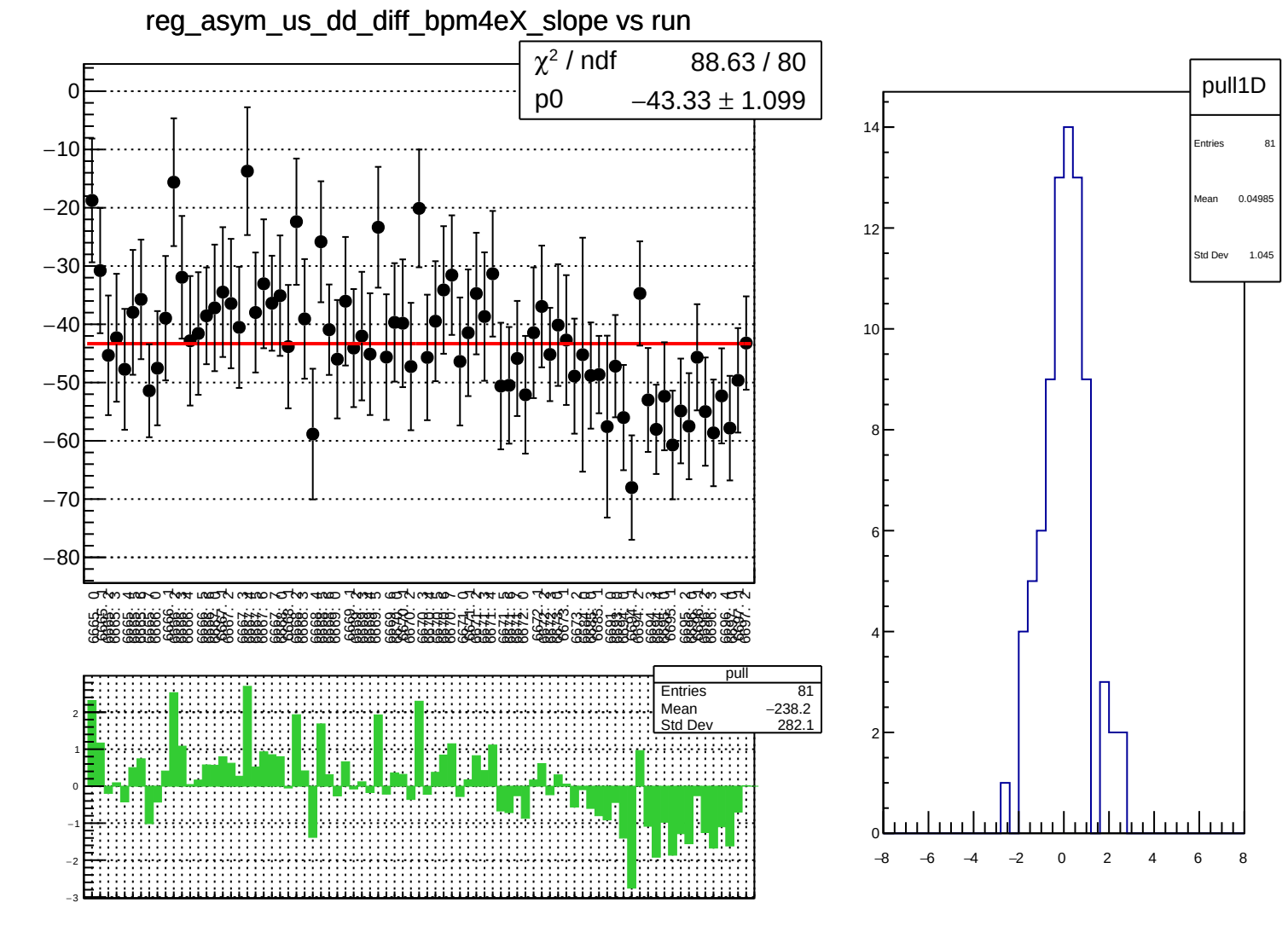

pull1D
Entries 81
Mean 0.01507
Std Dev 0.6985

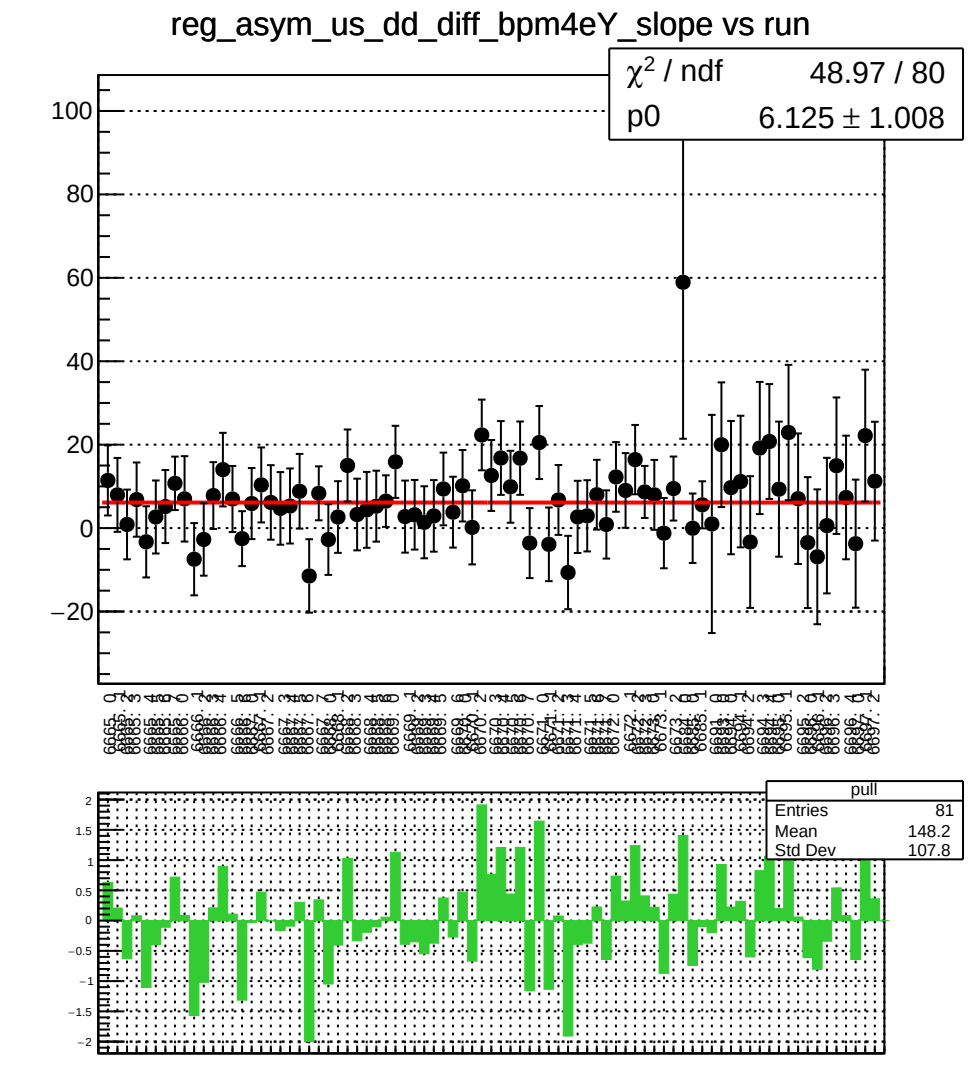

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 2.078e+04 / 80
p0 −60.99 ± 0.08537
pull
Entries 81
Mean −92.35
Std Dev 137.5
pull1D
Entries 81
Mean 0
Std Dev 0

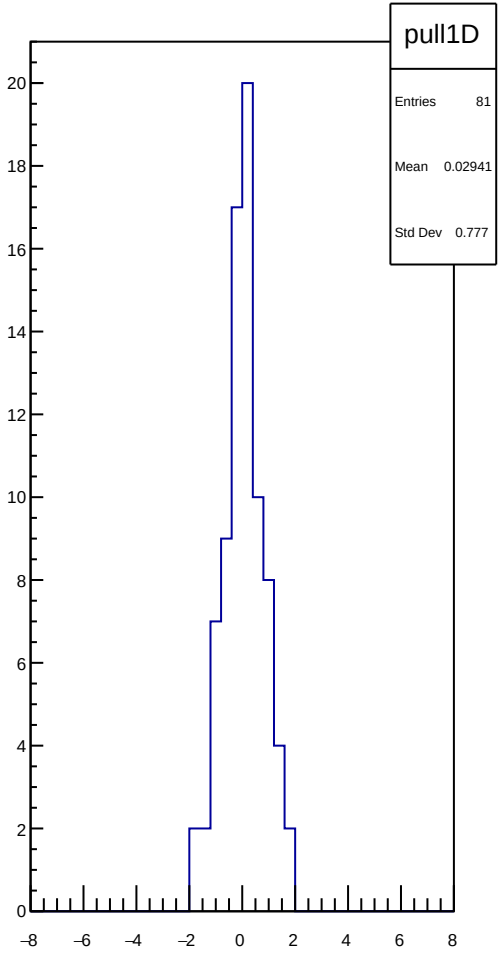

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 74.23 / 80
p0 −14.93 ± 1.047
pull
Entries 81
Mean −939.6
Std Dev 982.9

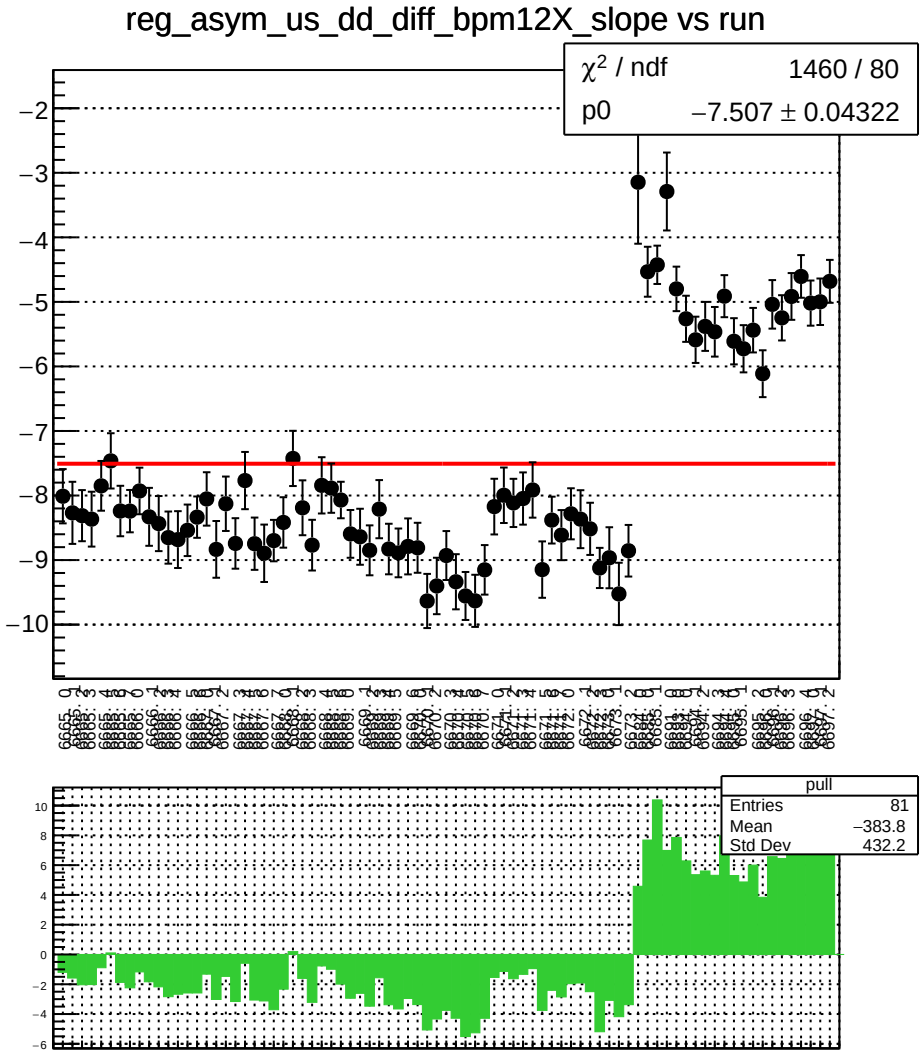

pull1D
Entries 81
Mean −0.01133
Std Dev 0.9572

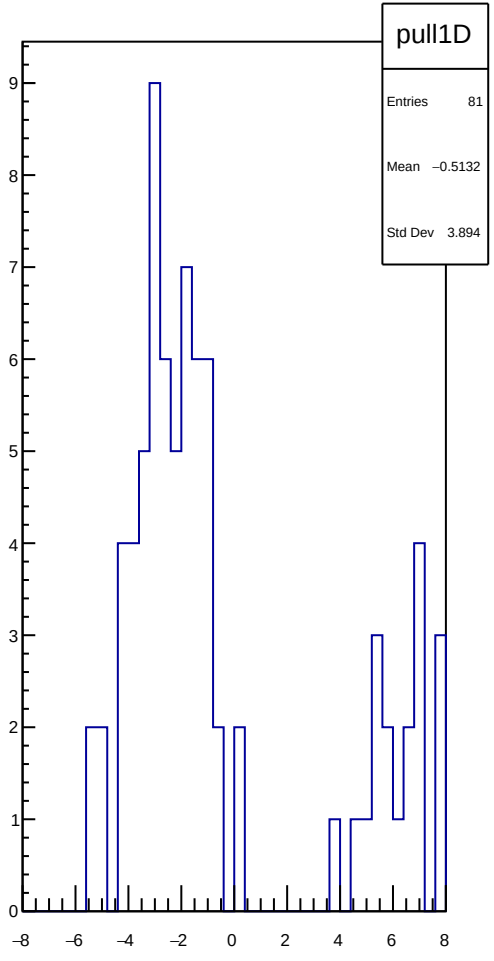

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 52.97 / 80
p0 −0.6696 ± 0.8815
pull
Entries 81
Mean 123.2
Std Dev 80.27
pull1D
Entries 81
Mean −0.04319
Std Dev 0.8075

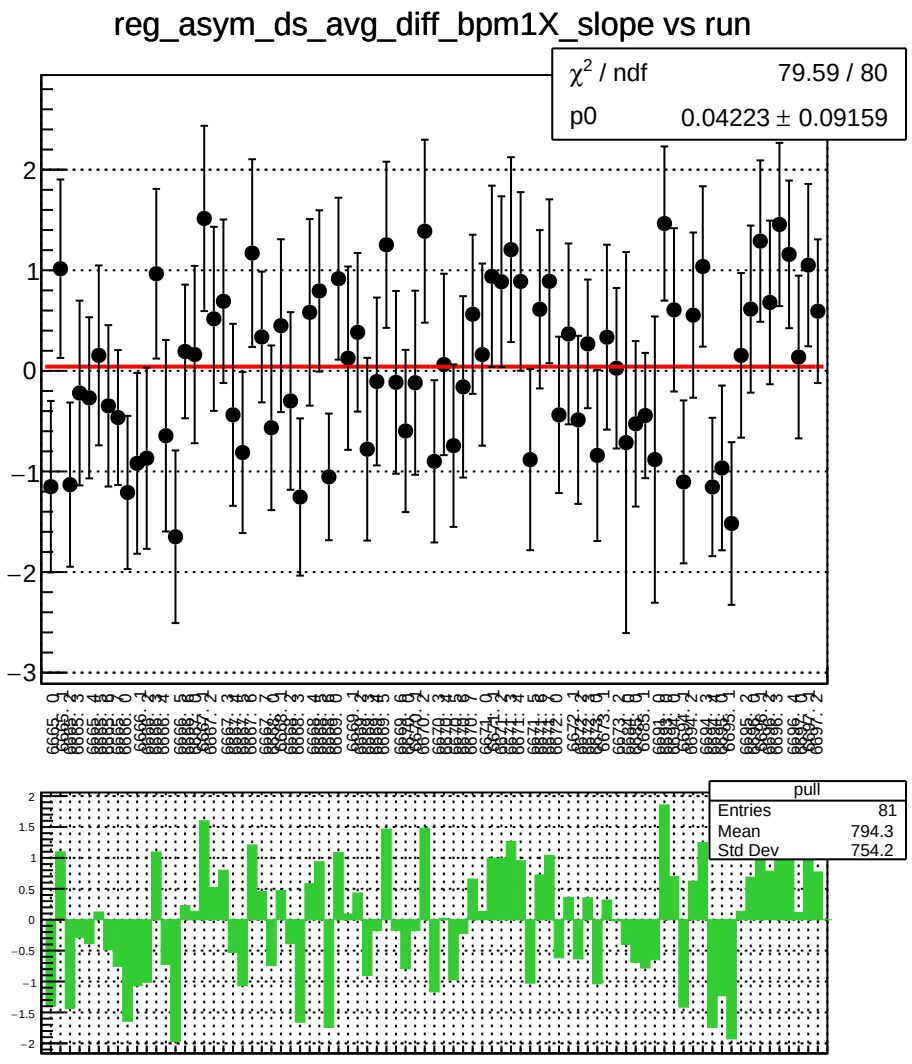

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 88.63 / 80
p0 −43.33 ± 1.099
pull
Entries 81
Mean −238.2
Std Dev 282.1
pull1D
Entries 81
Mean 0.04985
Std Dev 1.045

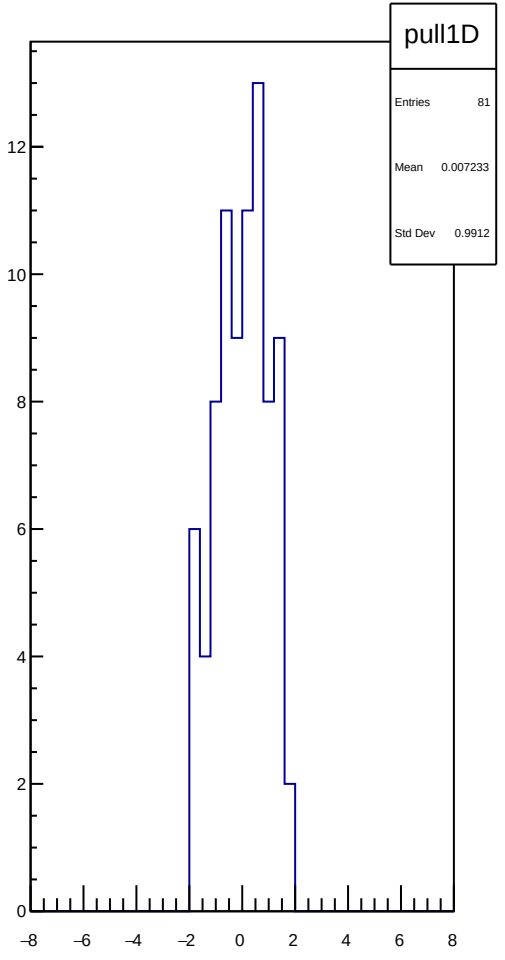

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 48.97 / 80
p0 6.125 ± 1.008
pull
Entries 81
Mean 148.2
Std Dev 107.8

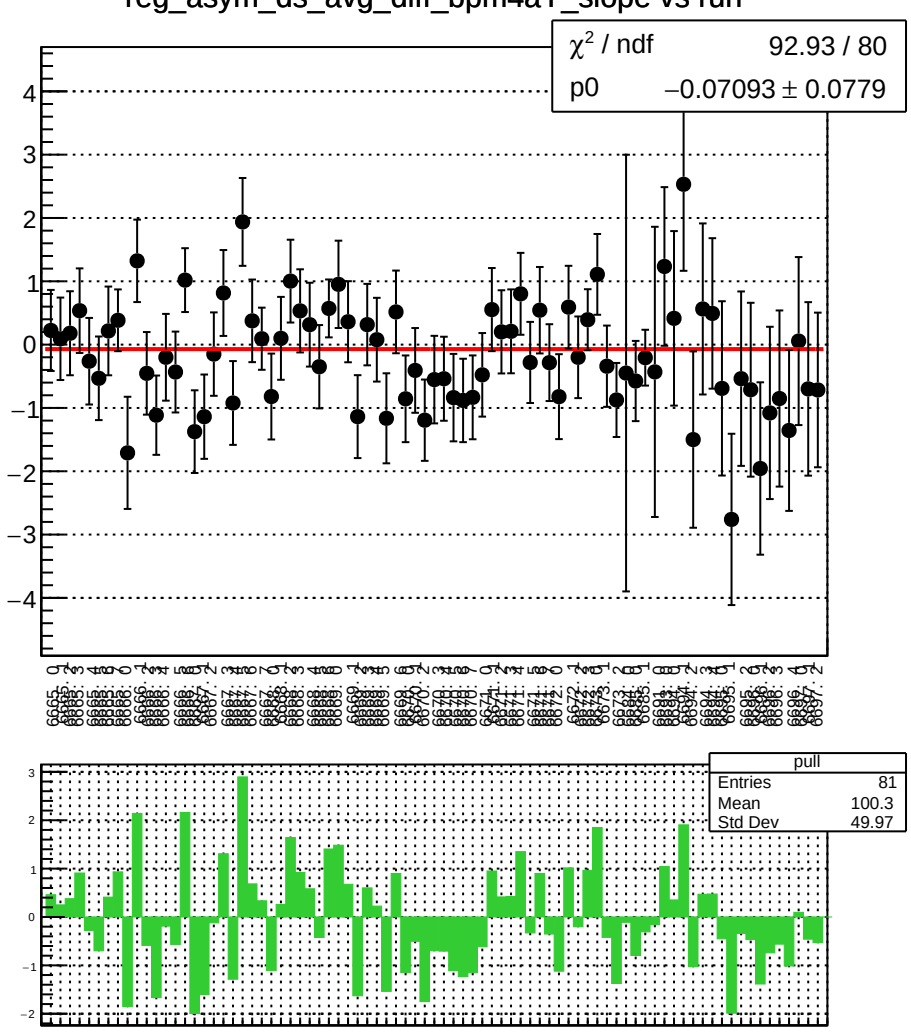

pull1D
Entries 81
Mean 0.02941
Std Dev 0.777

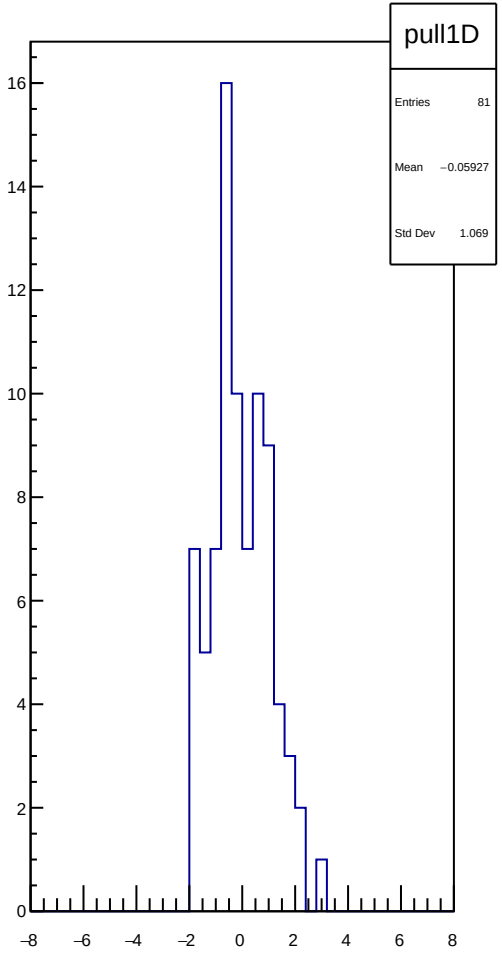

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 1460 / 80
p0 −7.507 ± 0.04322
pull
Entries 81
Mean −383.8
Std Dev 432.2

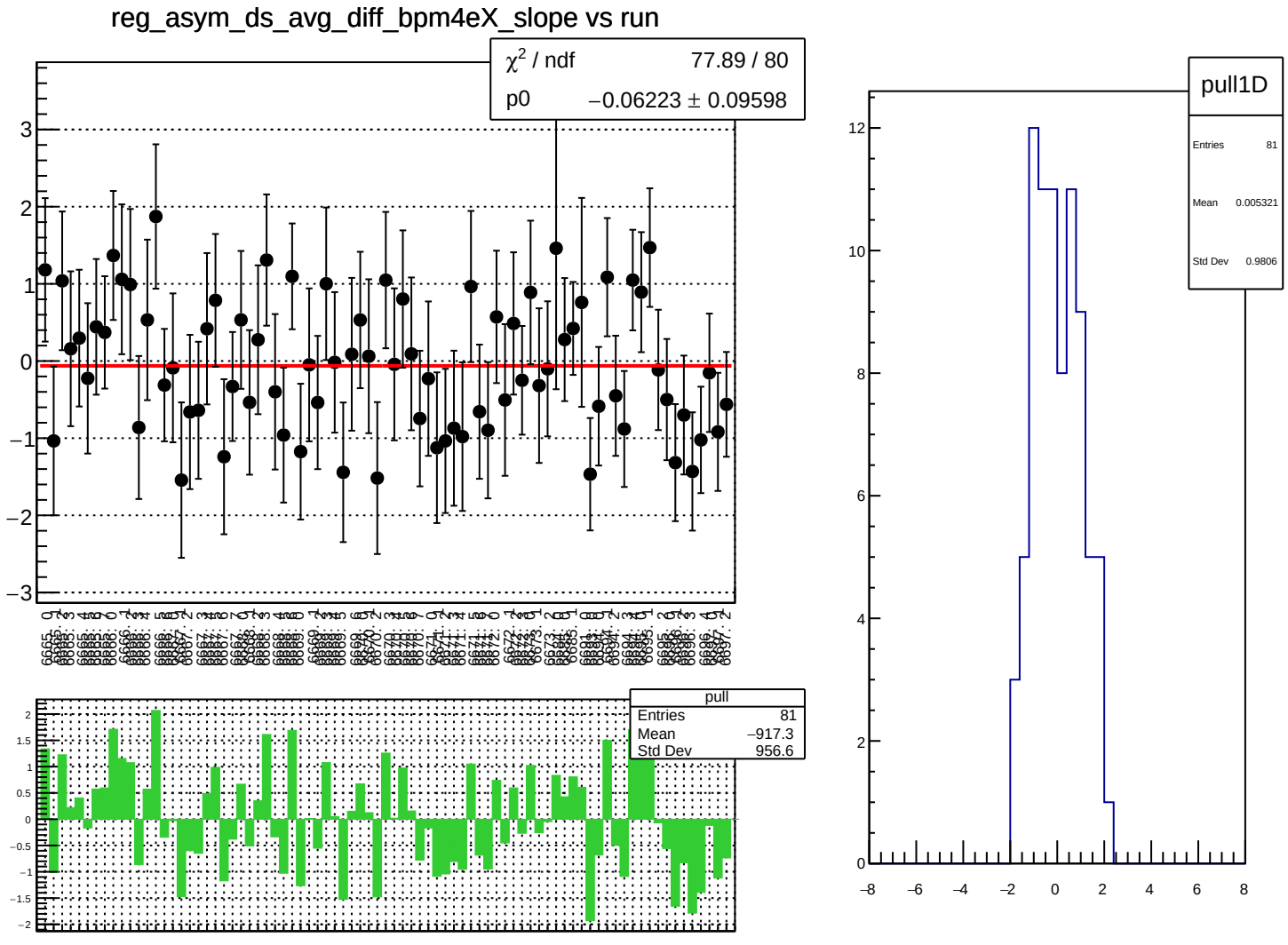

pull1D
Entries 81
Mean −0.5132
Std Dev 3.894

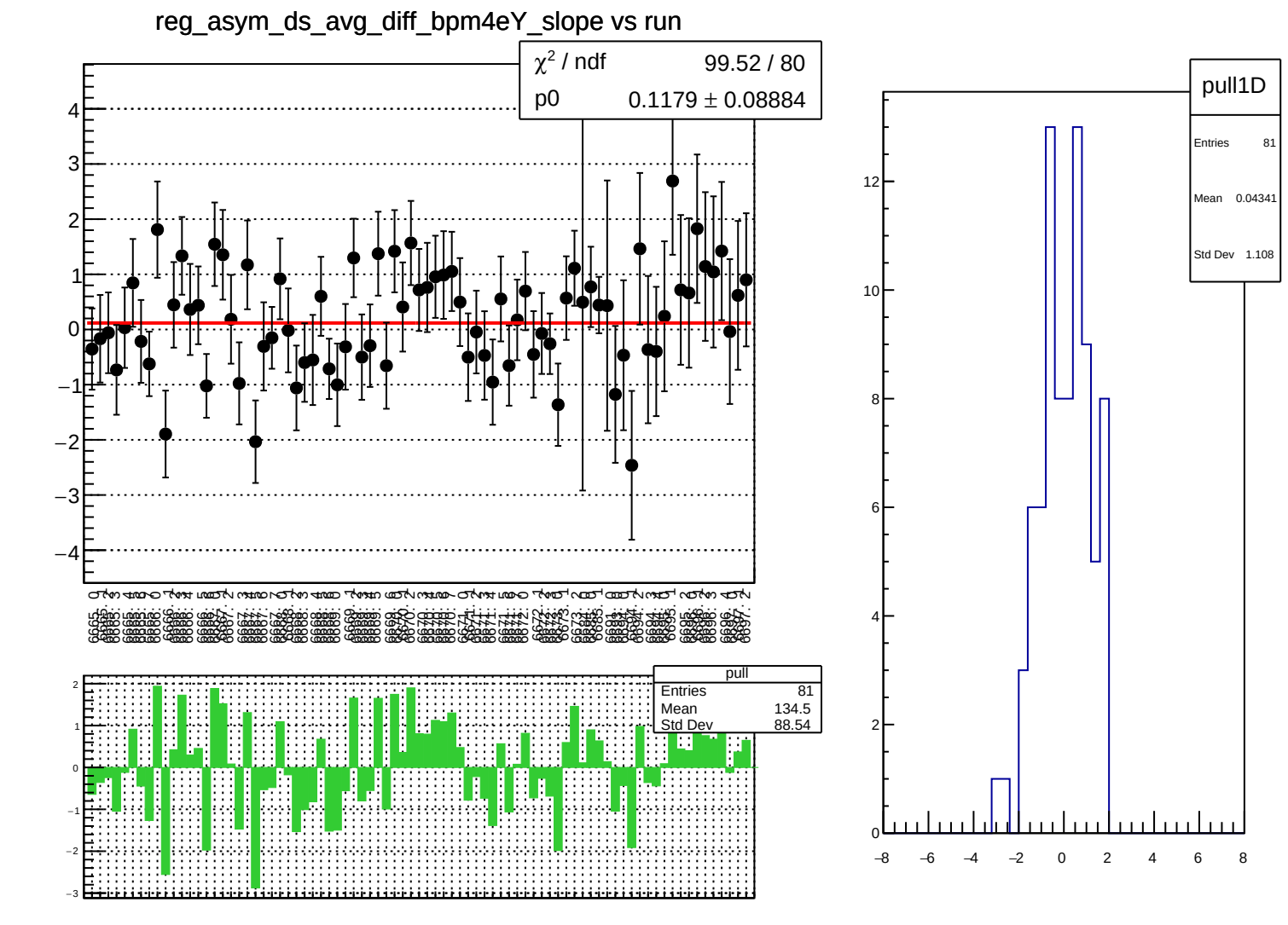

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 79.59 / 80
p0 0.04223 ± 0.09159
pull
Entries 81
Mean 794.3
Std Dev 754.2

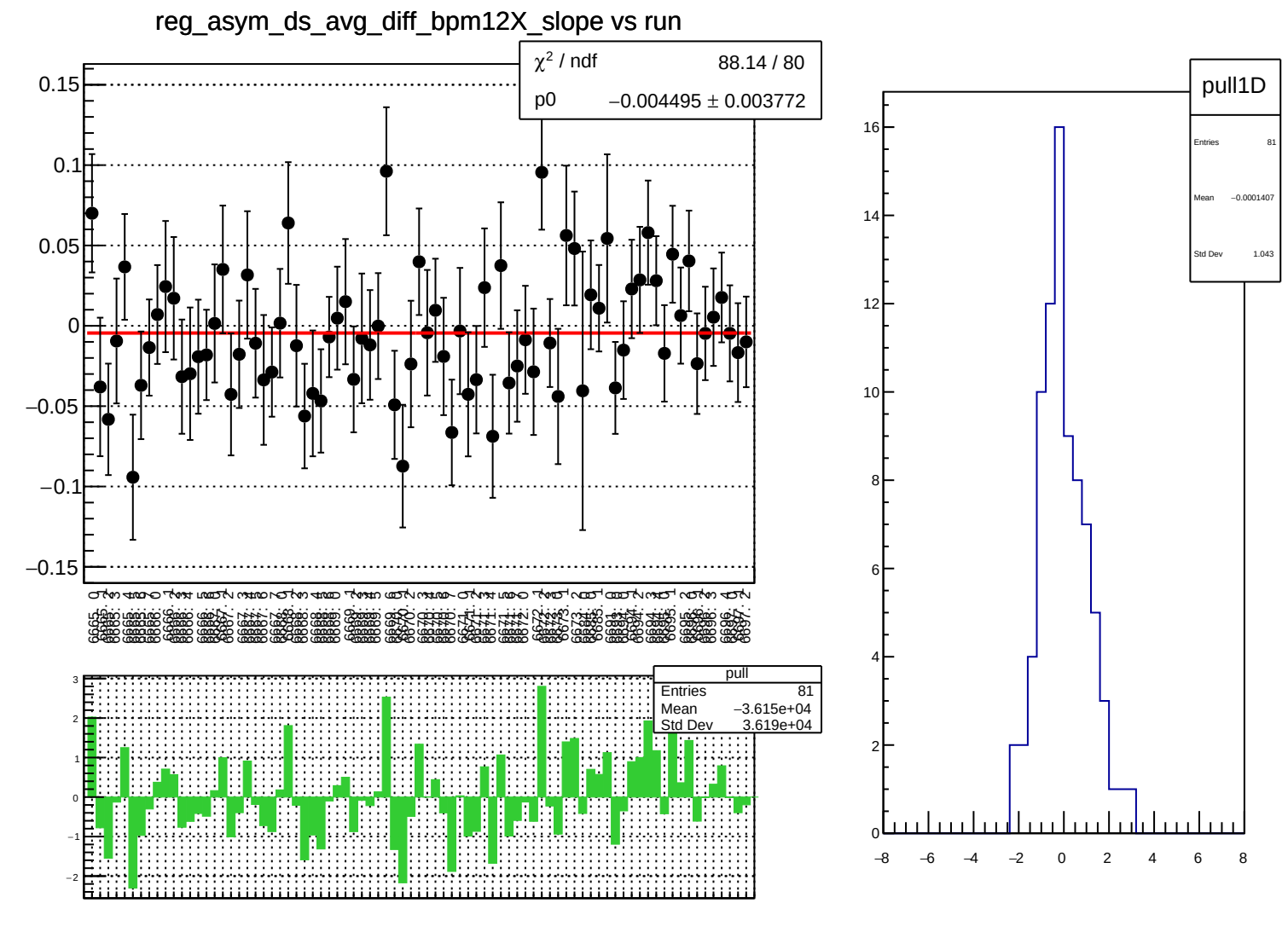

pull1D
Entries 81
Mean 0.007233
Std Dev 0.9912

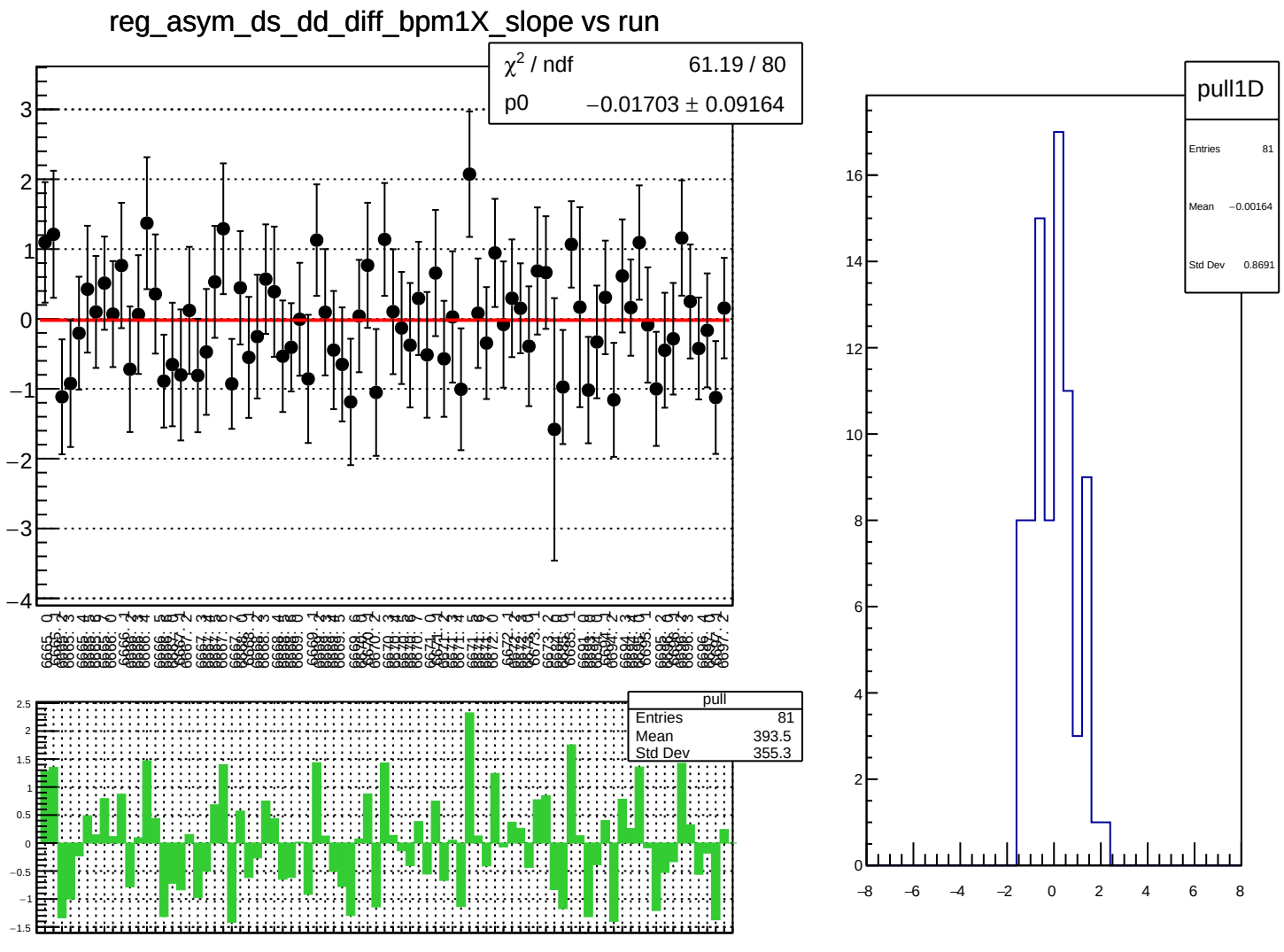

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.93 / 80
p0 −0.07093 ± 0.0779
pull
Entries 81
Mean 100.3
Std Dev 49.97

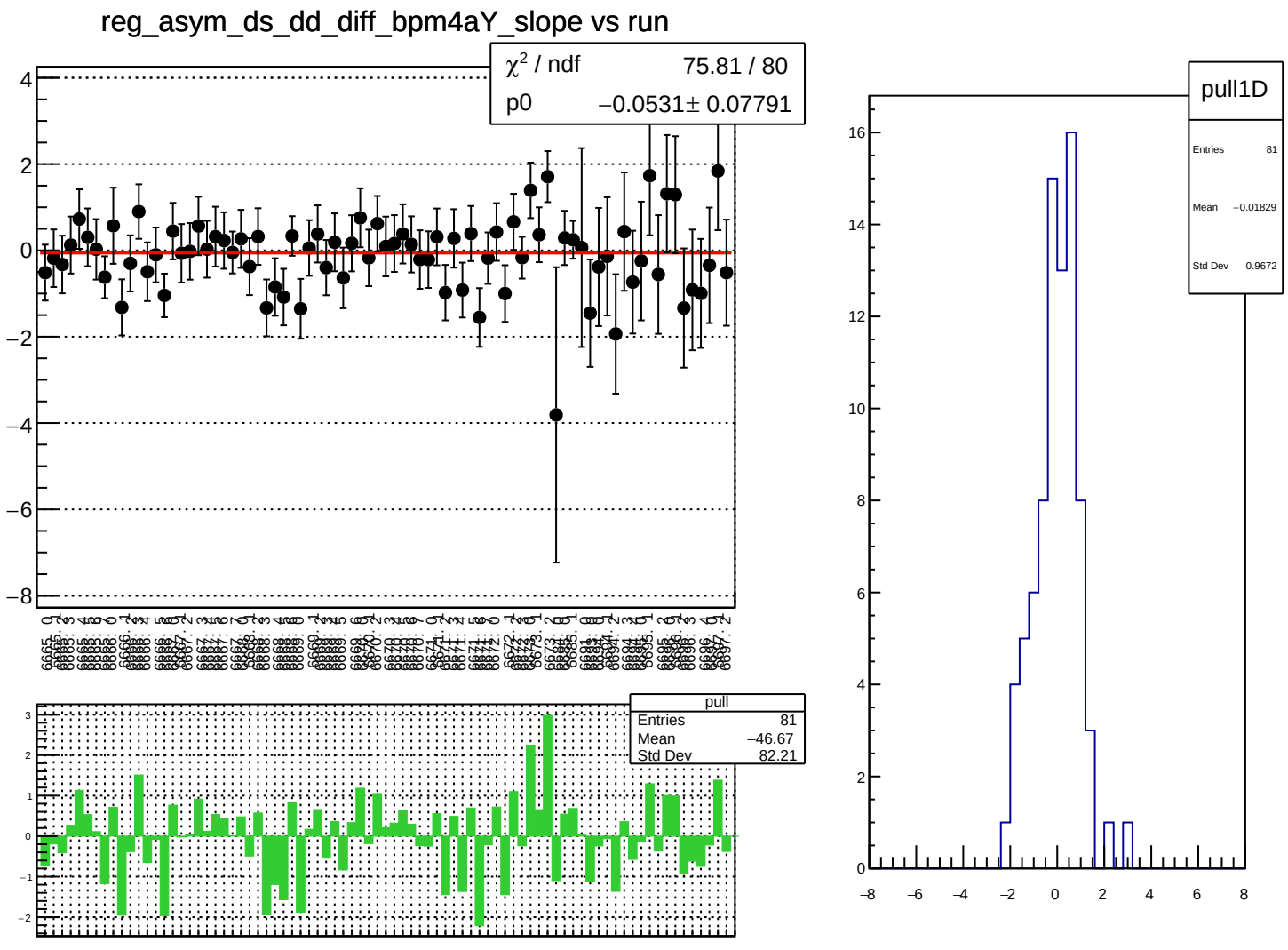

pull1D
Entries 81
Mean −0.05927
Std Dev 1.069

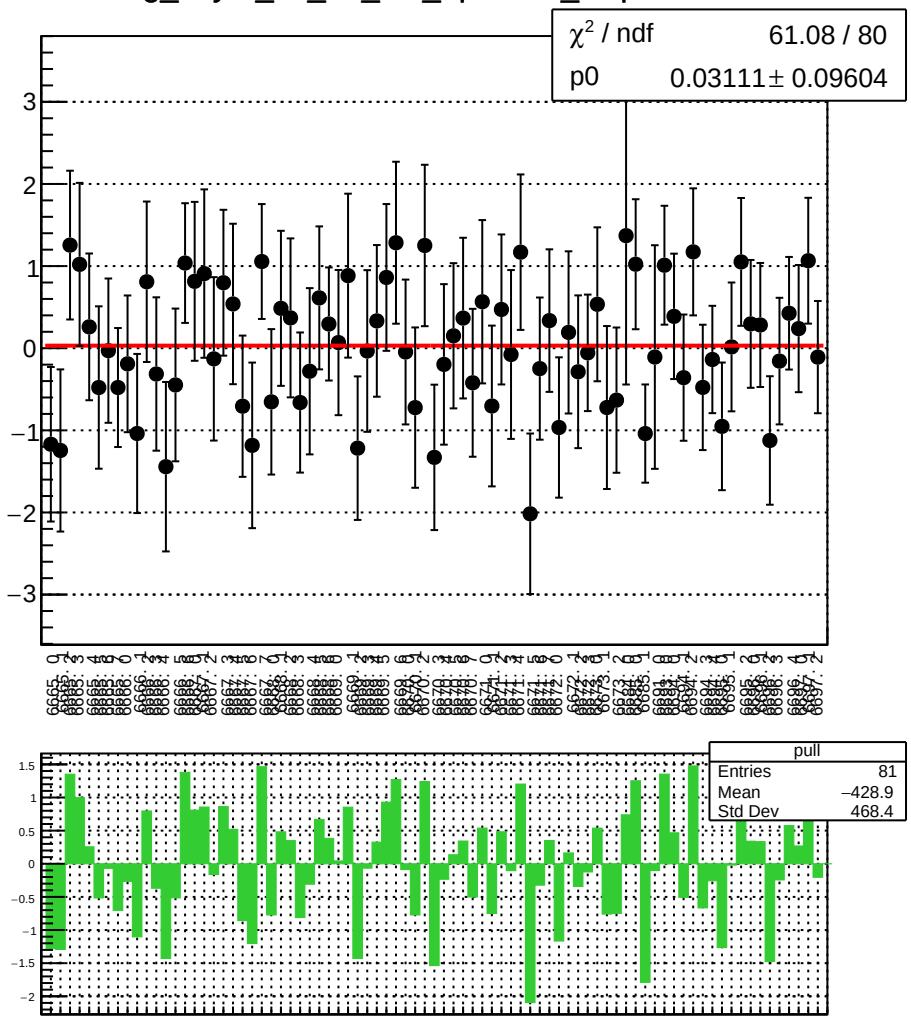

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 77.89 / 80
p0 −0.06223 ± 0.09598
pull
Entries 81
Mean −917.3
Std Dev 956.6
pull1D
Entries 81
Mean 0.005321
Std Dev 0.9806

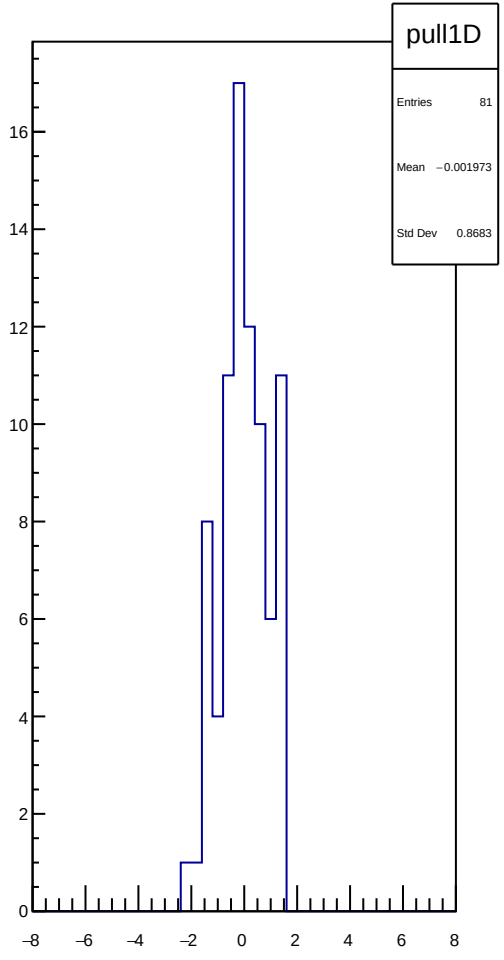

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 99.52 / 80
p0 0.1179 ± 0.08884
pull
Entries 81
Mean 134.5
Std Dev 88.54
pull1D
Entries 81
Mean 0.04341
Std Dev 1.108

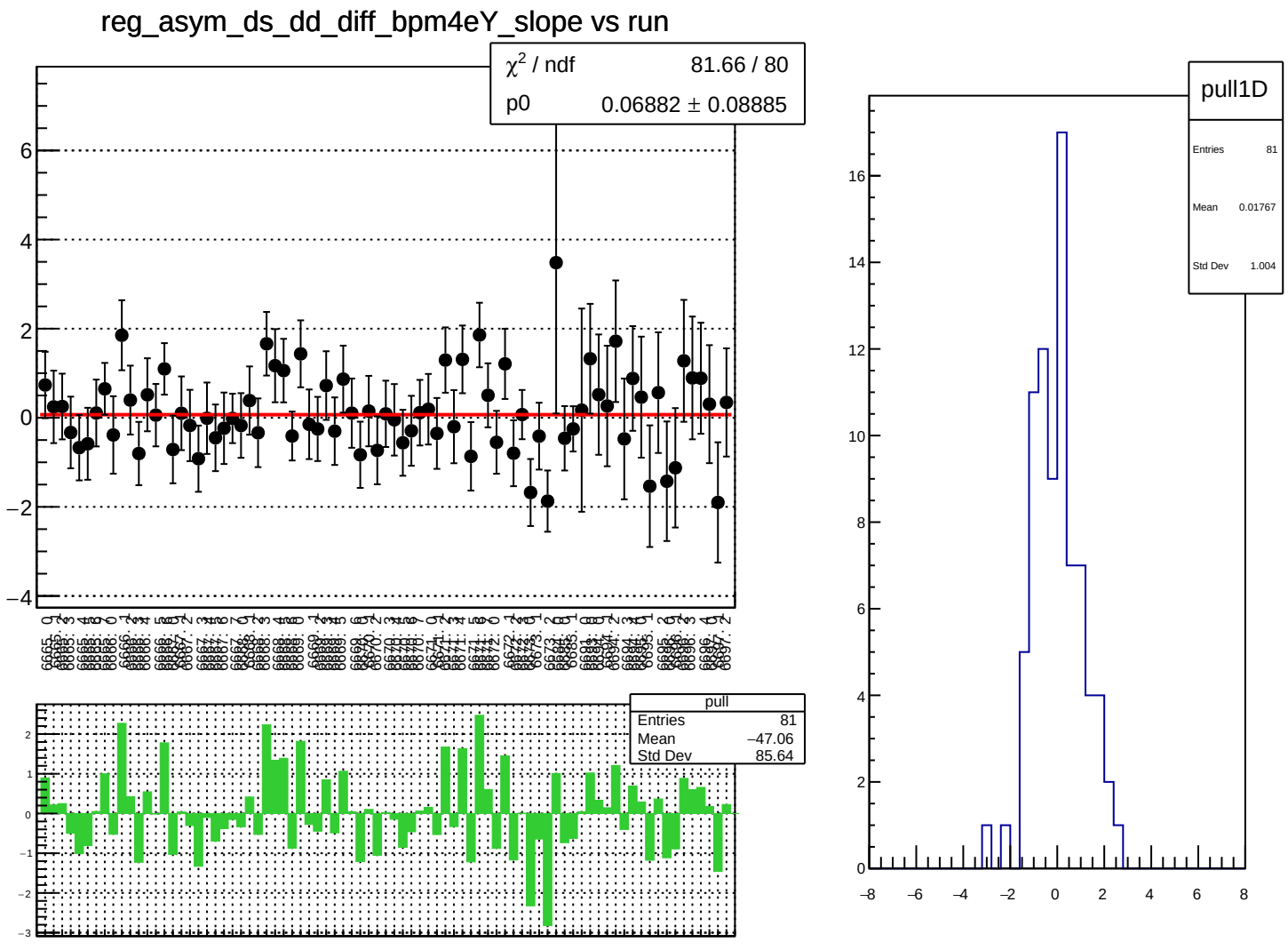

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 88.14 / 80
p0 −0.004495 ± 0.003772
pull
Entries 81
Mean −3.615e+04
Std Dev 3.619e+04
pull1D
Entries 81
Mean −0.0001407
Std Dev 1.043

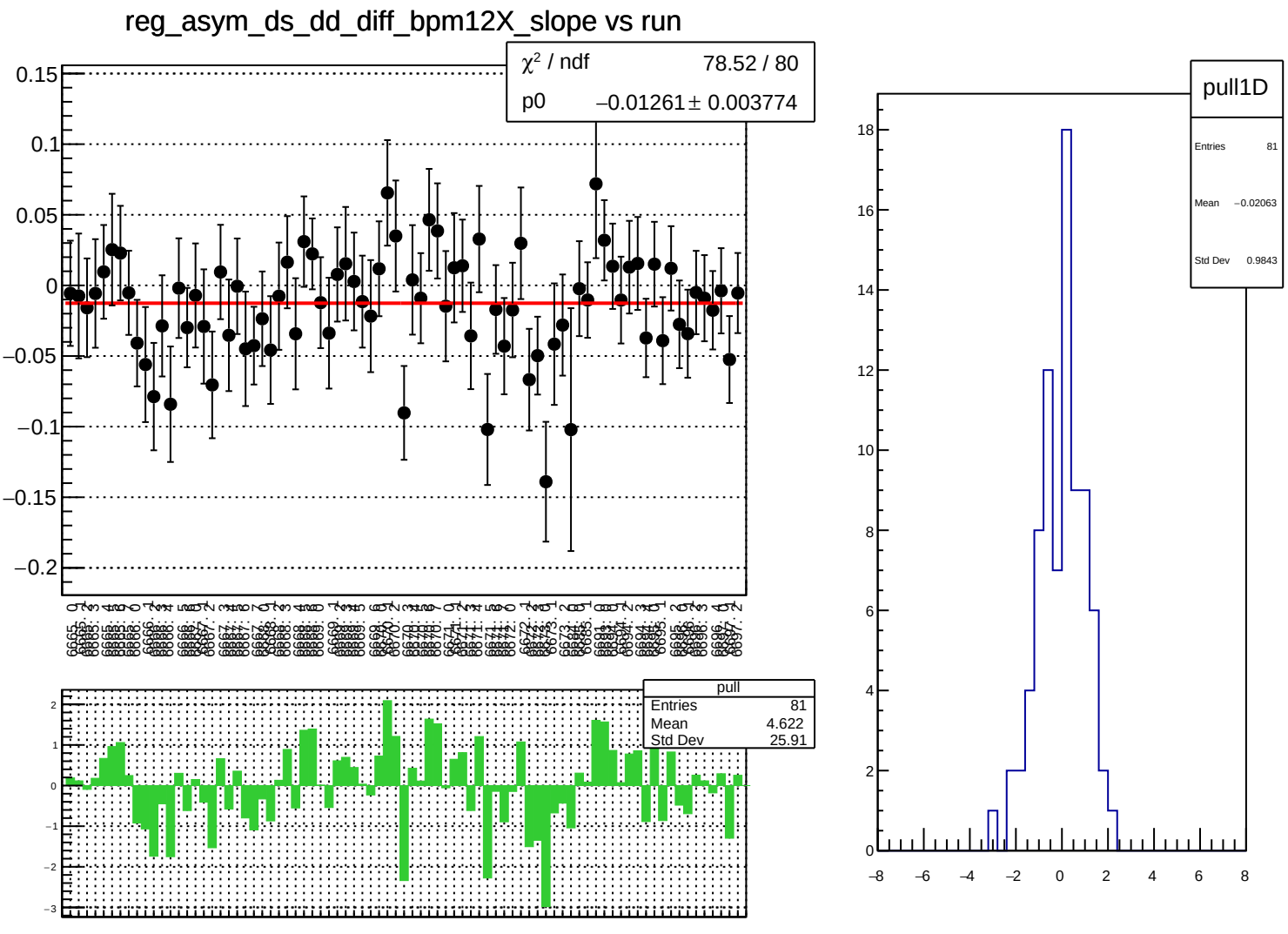

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 61.19 / 80
p0 −0.01703 ± 0.09164
pull
Entries 81
Mean 393.5
Std Dev 355.3
pull1D
Entries 81
Mean −0.00164
Std Dev 0.8691

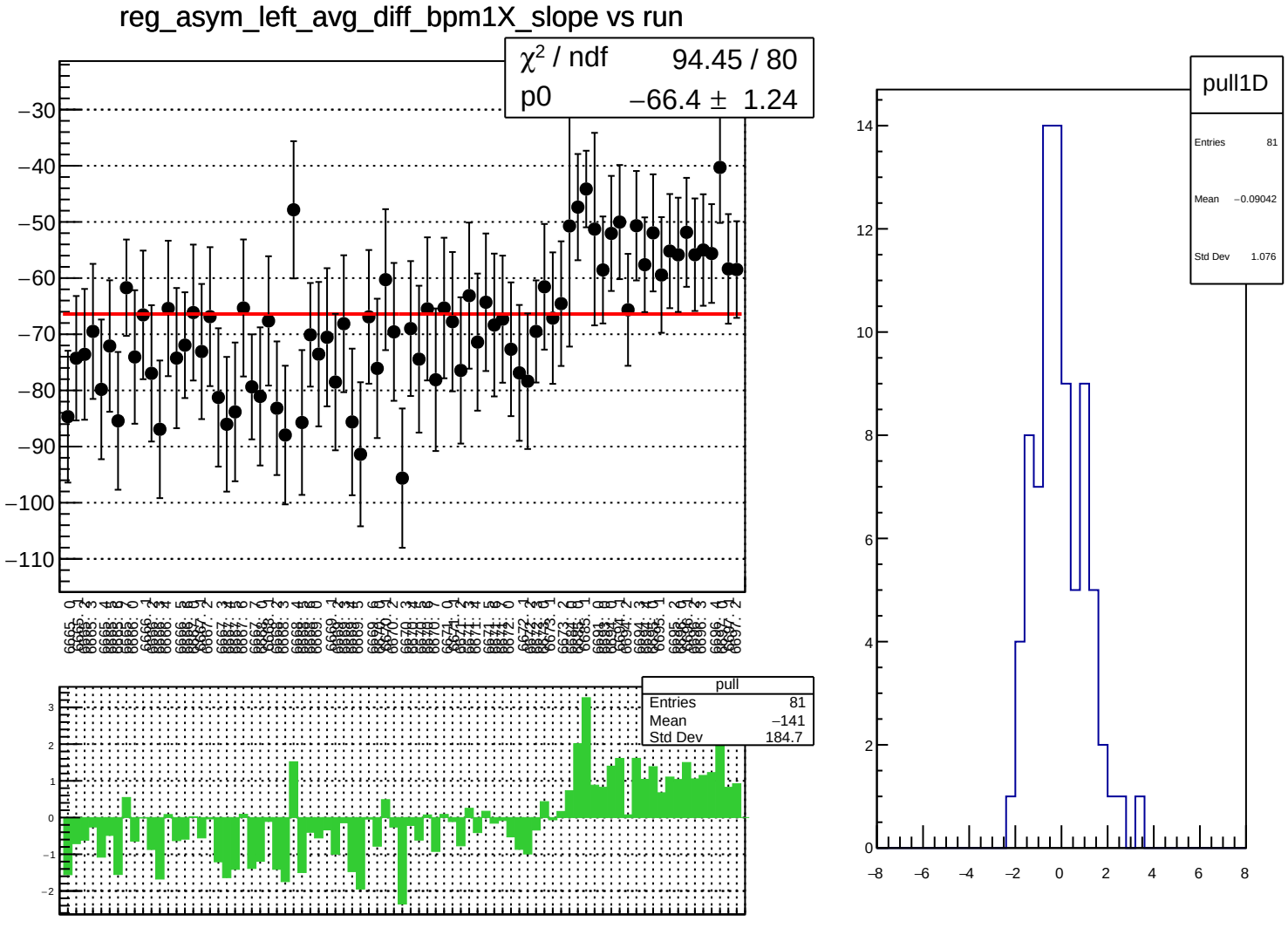

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.81 / 80
p0 −0.0531± 0.07791
pull
Entries 81
Mean −46.67
Std Dev 82.21
pull1D
Entries 81
Mean −0.01829
Std Dev 0.9672

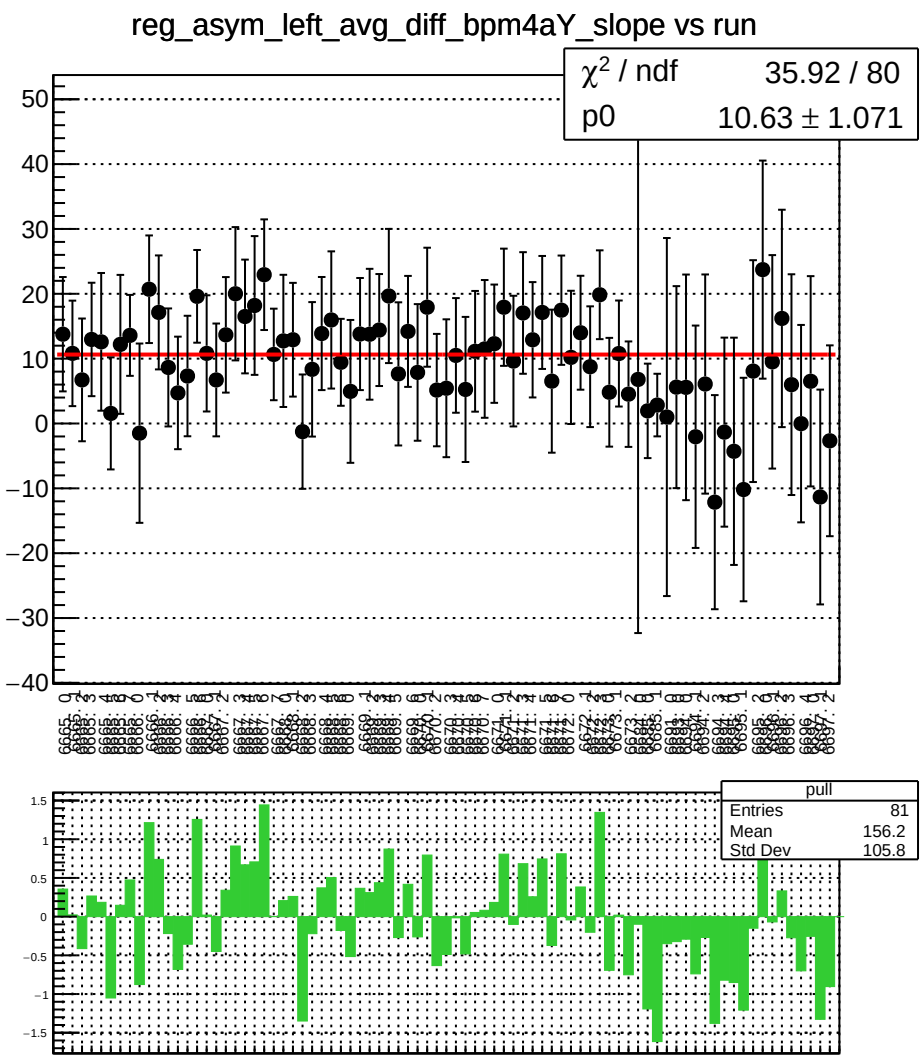

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.08 / 80
p0 0.03111 ± 0.09604
pull
Entries 81
Mean −428.9
Std Dev 468.4

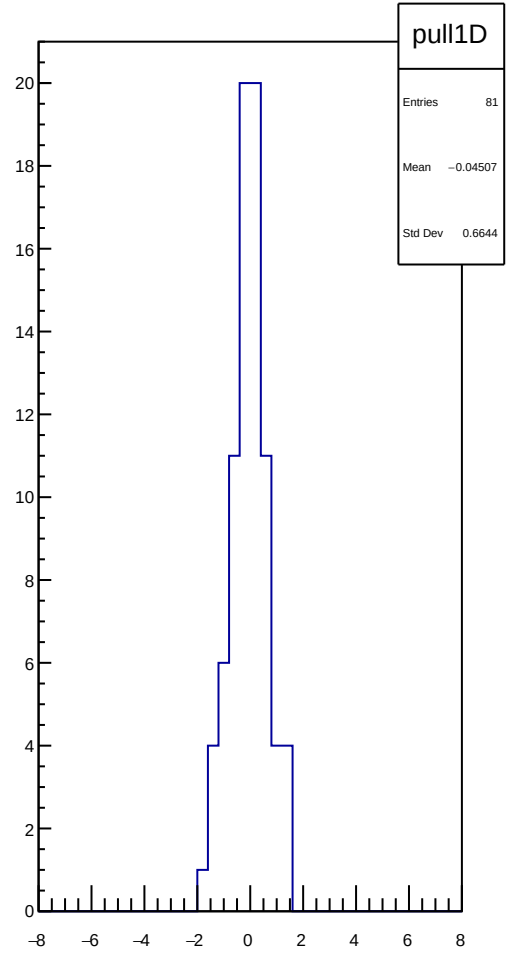

pull1D
Entries 81
Mean −0.001973
Std Dev 0.8683

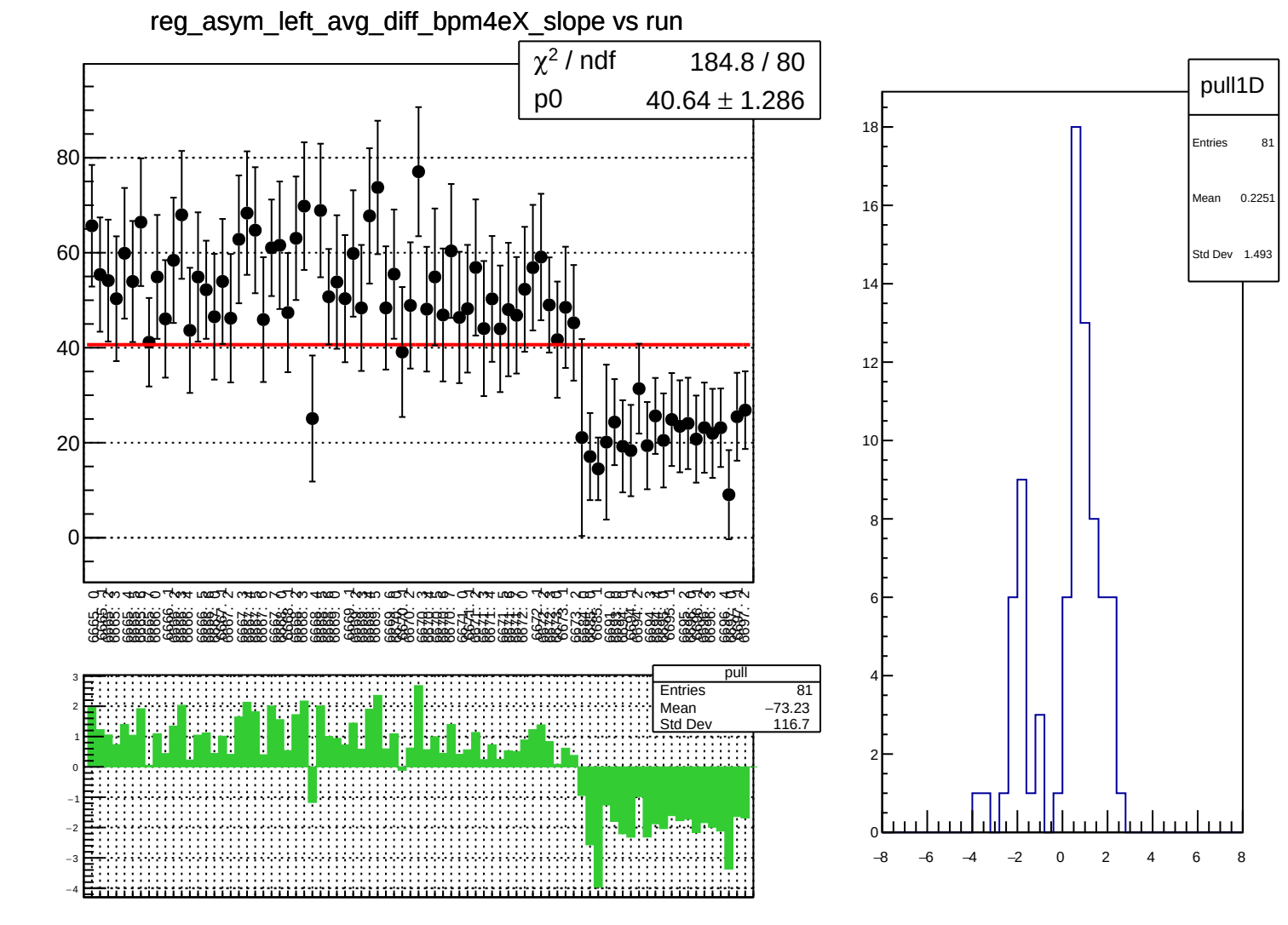

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.66 / 80
p0 0.06882 ± 0.08885
pull
Entries 81
Mean −47.06
Std Dev 85.64
pull1D
Entries 81
Mean 0.01767
Std Dev 1.004

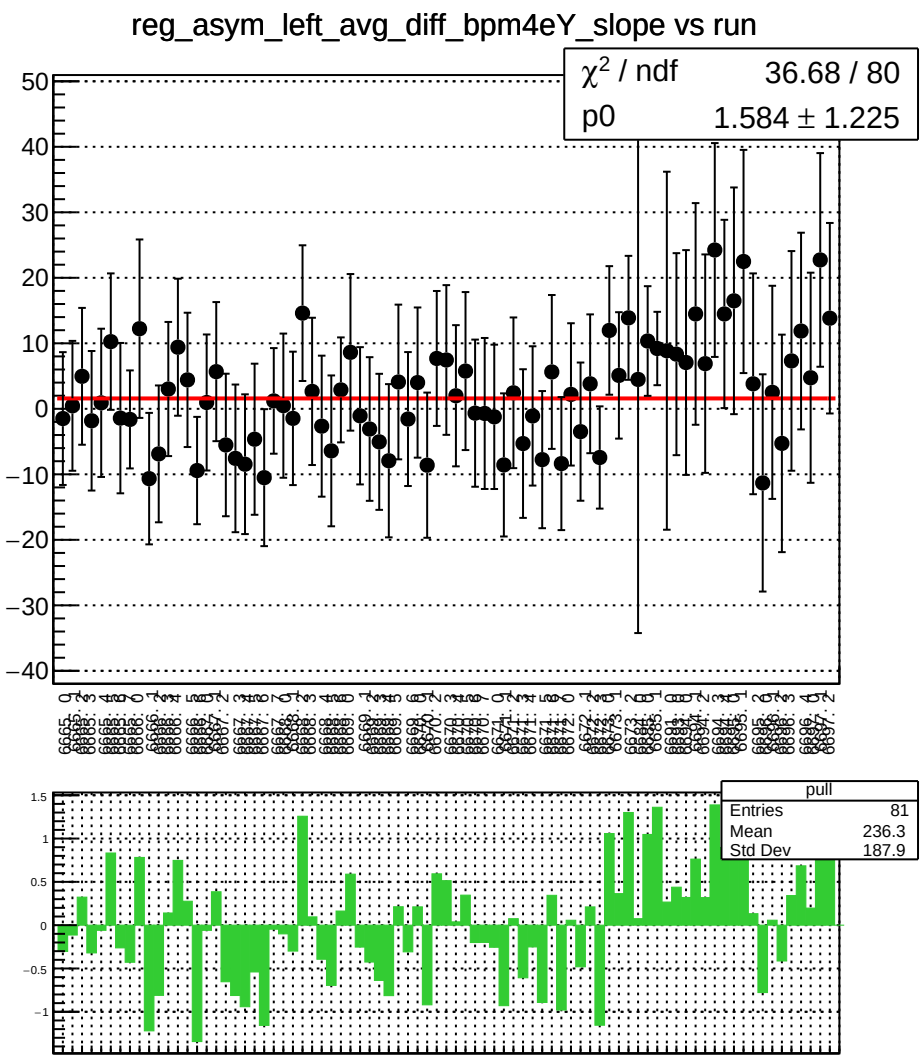

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 78.52 / 80
p0 −0.01261 ± 0.003774
pull
Entries 81
Mean 4.622
Std Dev 25.91
pull1D
Entries 81
Mean −0.02063
Std Dev 0.9843

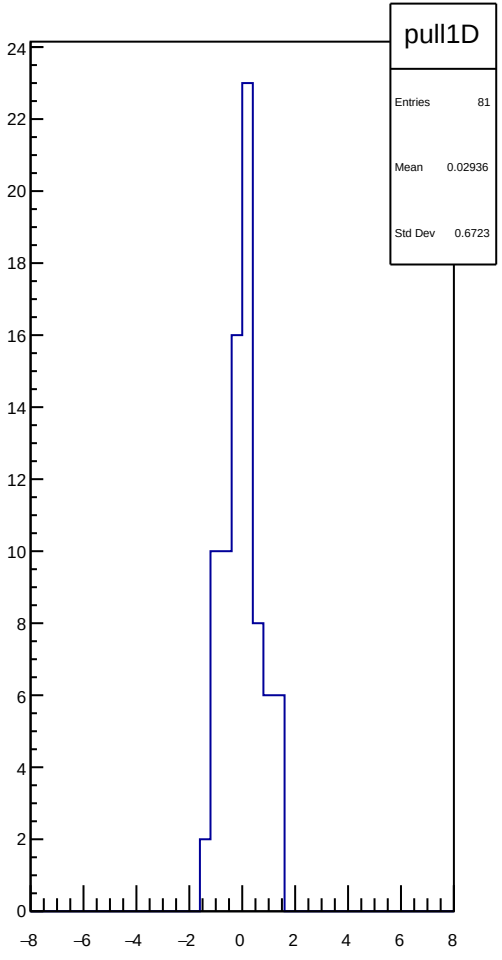

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 94.45 / 80
p0 −66.4 ± 1.24
pull
Entries 81
Mean −141
Std Dev 184.7
pull1D
Entries 81
Mean −0.09042
Std Dev 1.076

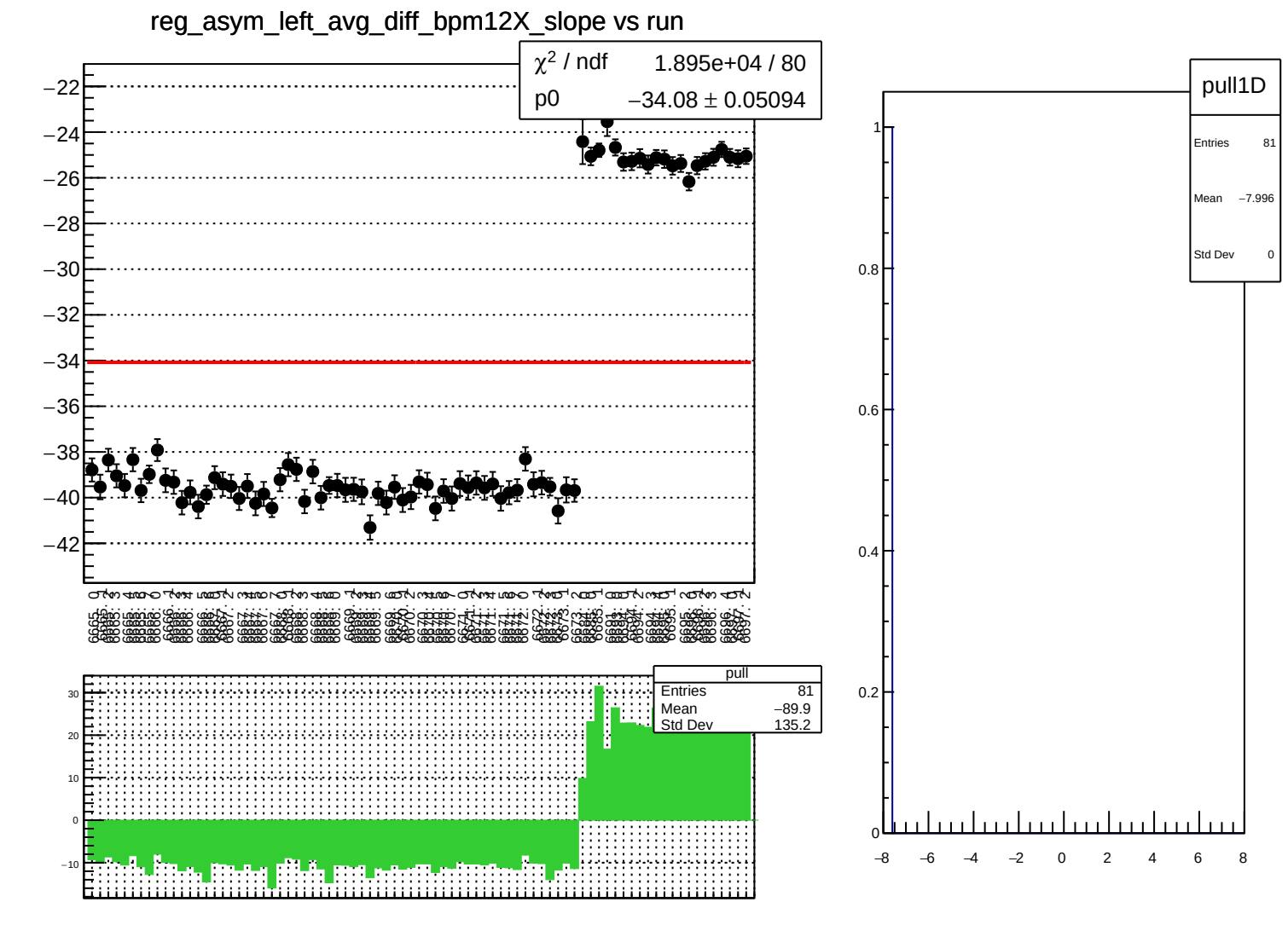

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 35.92 / 80
p0 10.63 ± 1.071
pull
Entries 81
Mean 156.2
Std Dev 105.8

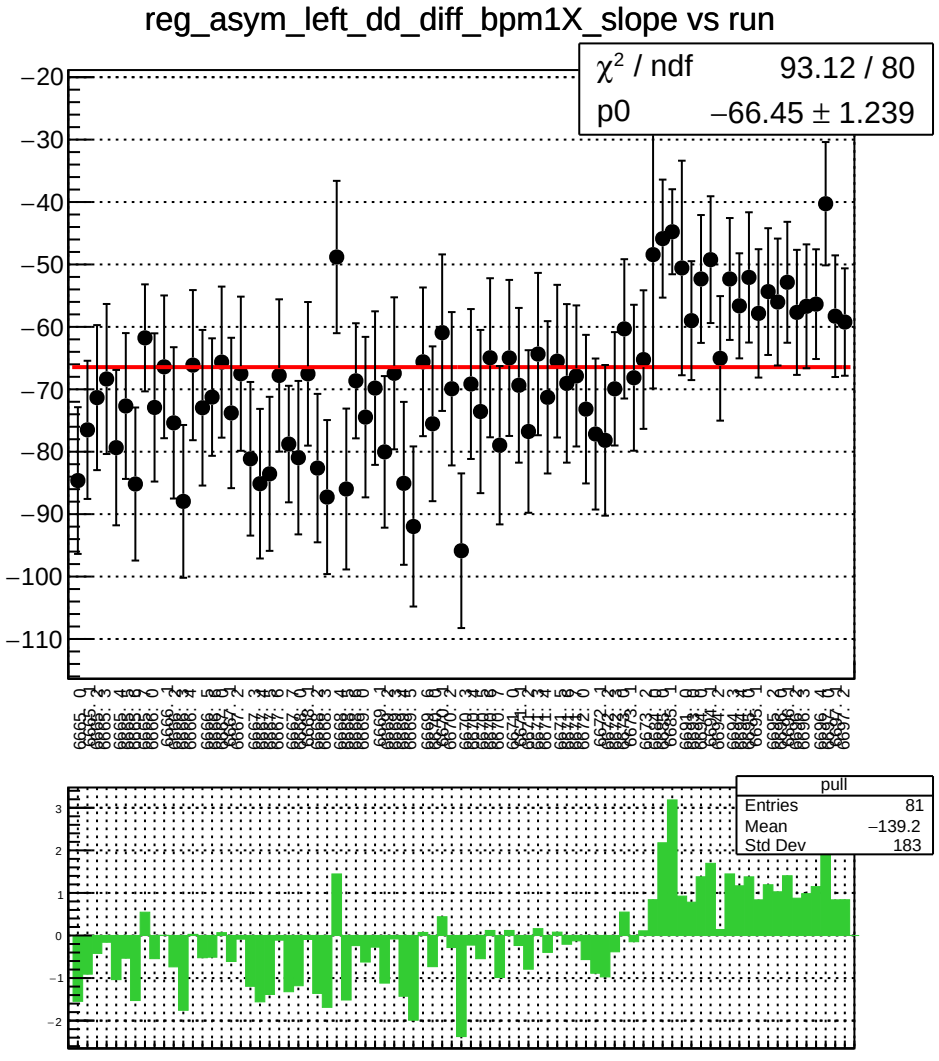

pull1D
Entries 81
Mean −0.04507
Std Dev 0.6644

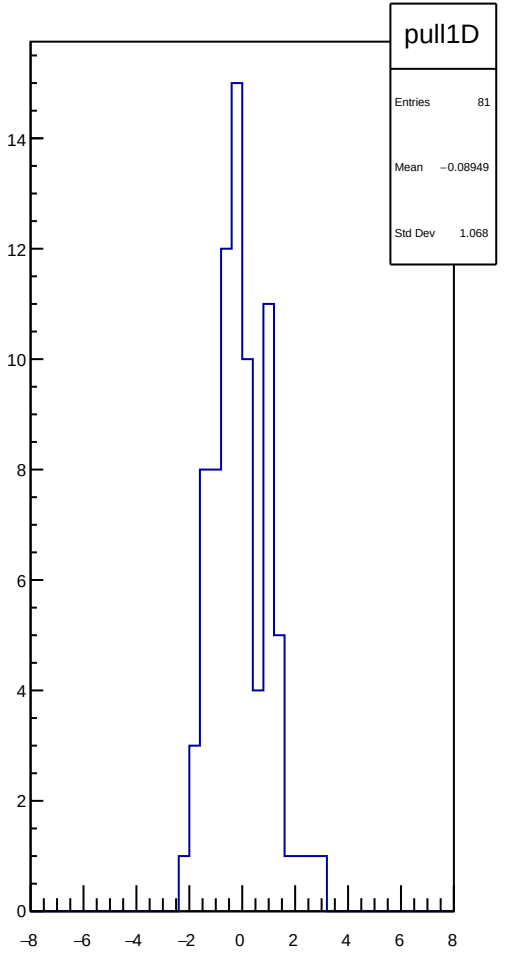

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 184.8 / 80
p0 40.64 ± 1.286
pull
Entries 81
Mean −73.23
Std Dev 116.7
pull1D
Entries 81
Mean 0.2251
Std Dev 1.493

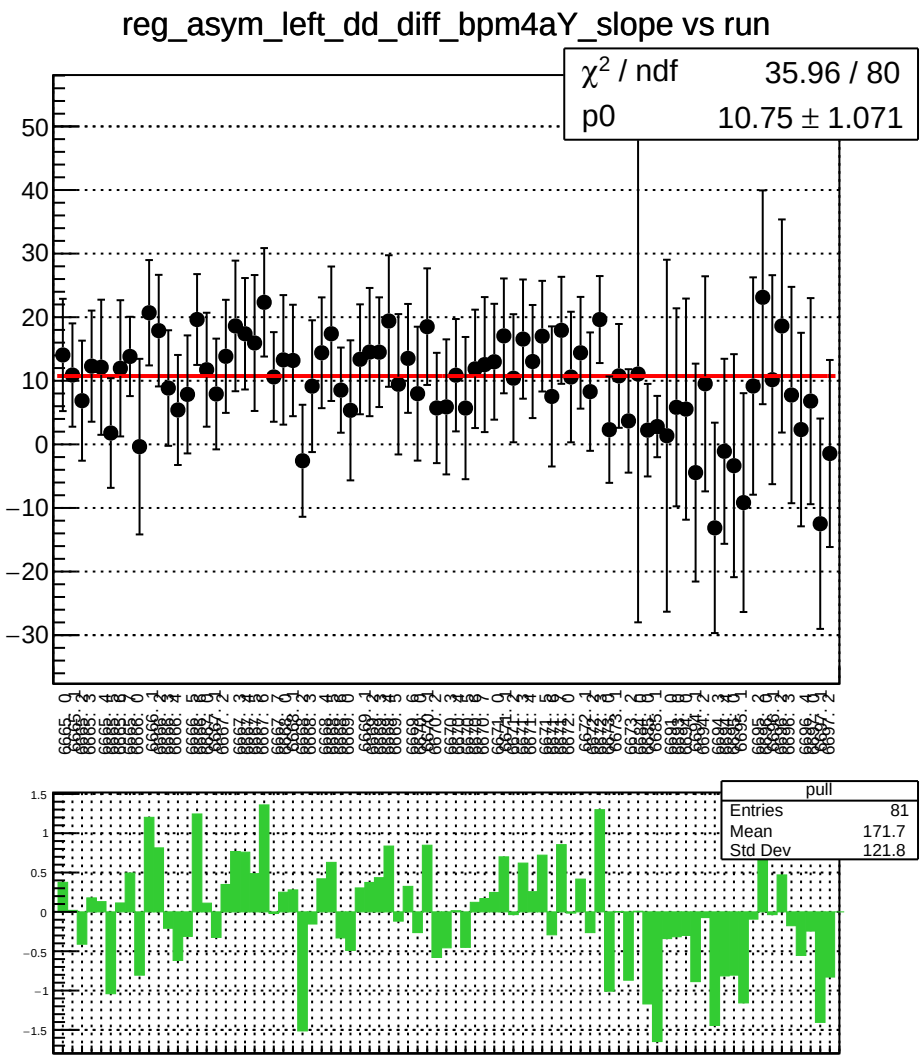

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 36.68 / 80
p0 1.584 ± 1.225
pull
Entries 81
Mean 236.3
Std Dev 187.9

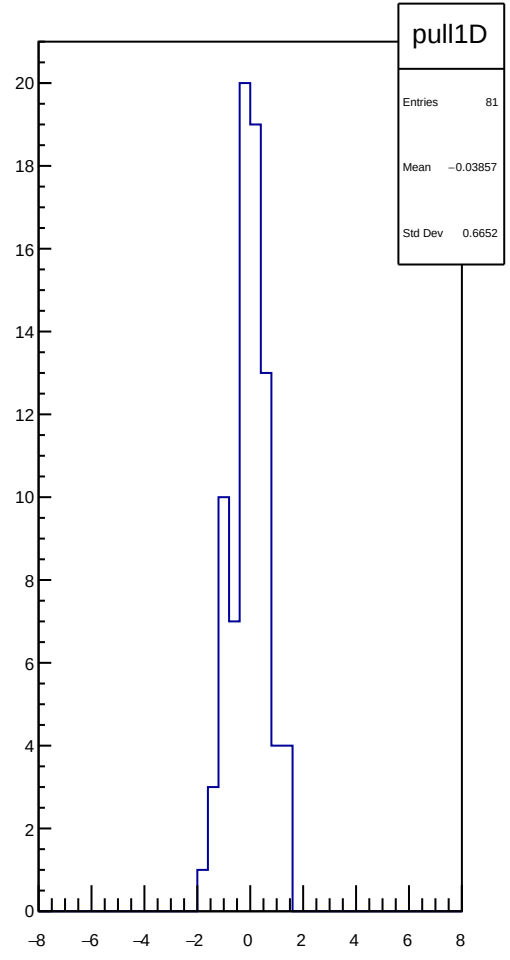

pull1D
Entries 81
Mean 0.02936
Std Dev 0.6723

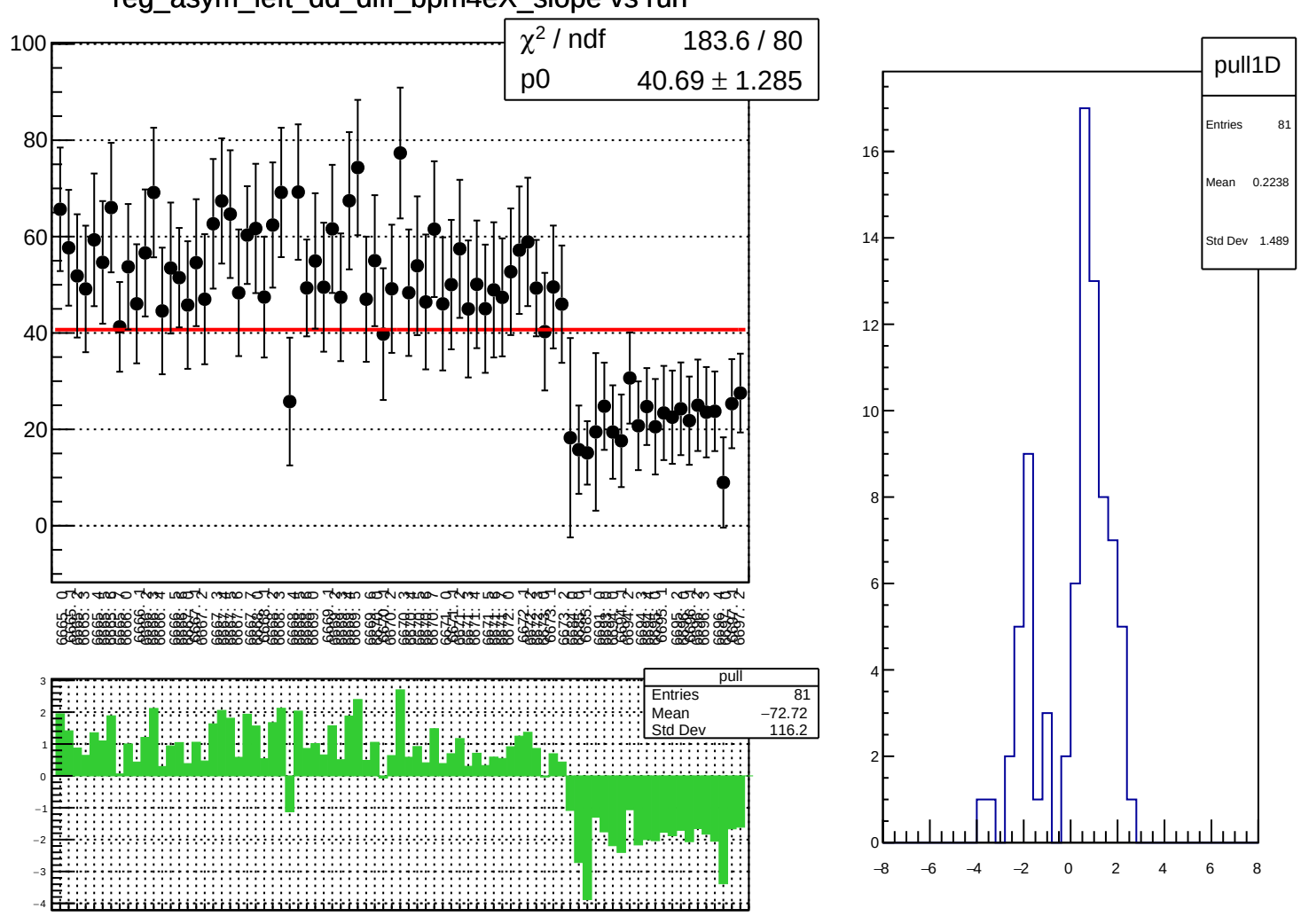

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 1.895e+04 / 80
p0 −34.08 ± 0.05094
pull
Entries 81
Mean −89.9
Std Dev 135.2
pull1D
Entries 81
Mean −7.996
Std Dev 0

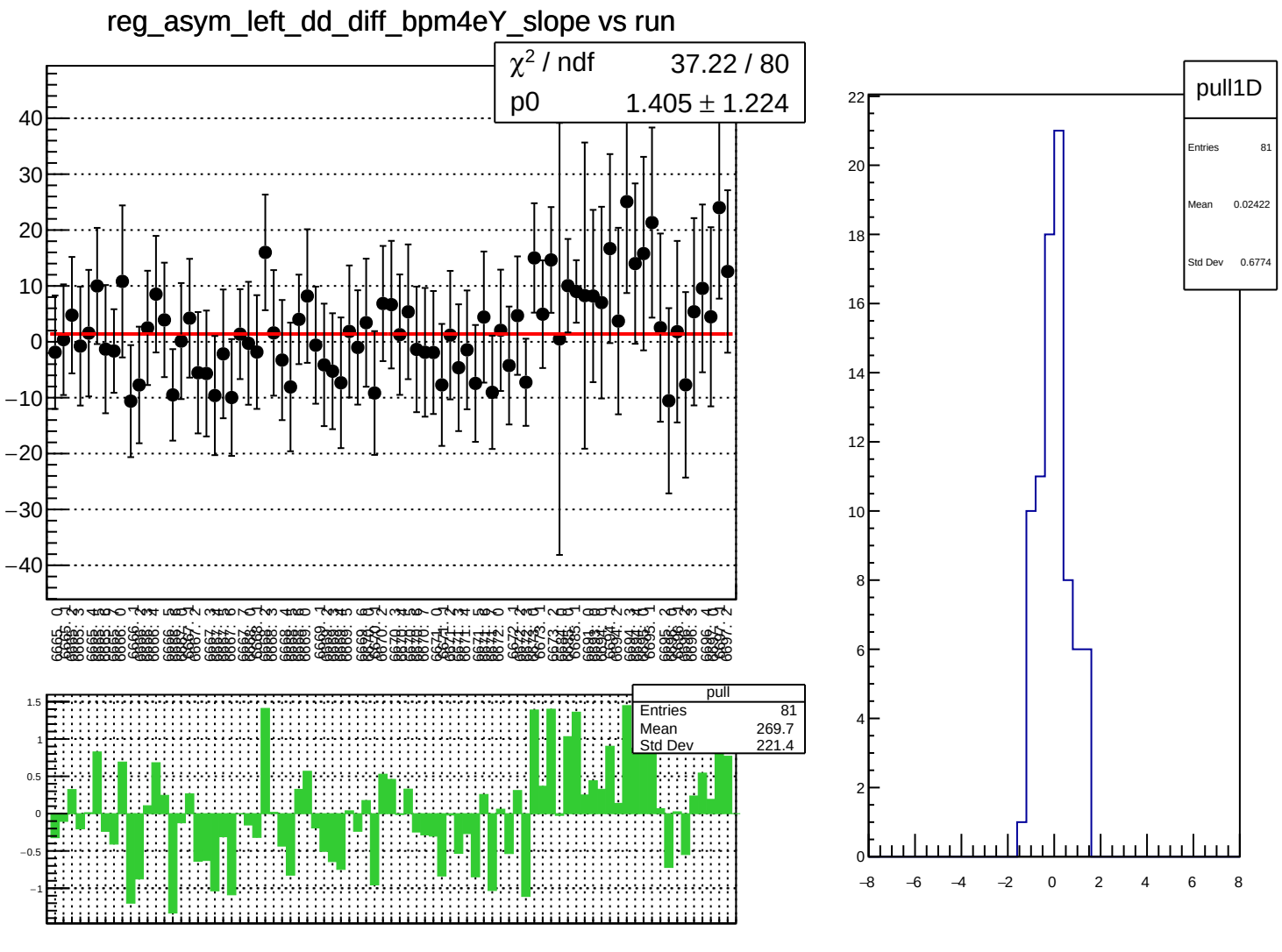

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 93.12 / 80
p0 −66.45 ± 1.239
pull
Entries 81
Mean −139.2
Std Dev 183

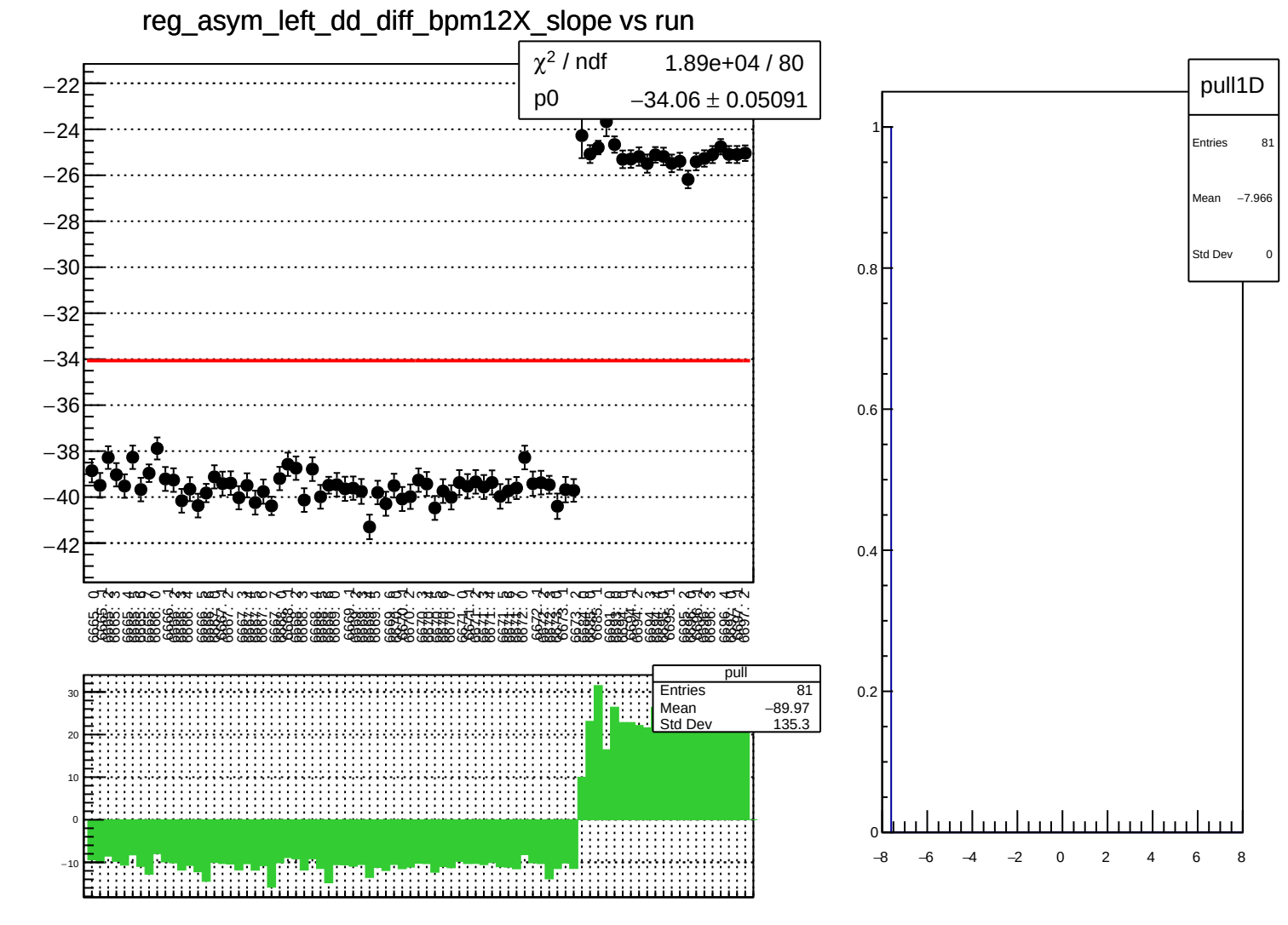

pull1D
Entries 81
Mean −0.08949
Std Dev 1.068

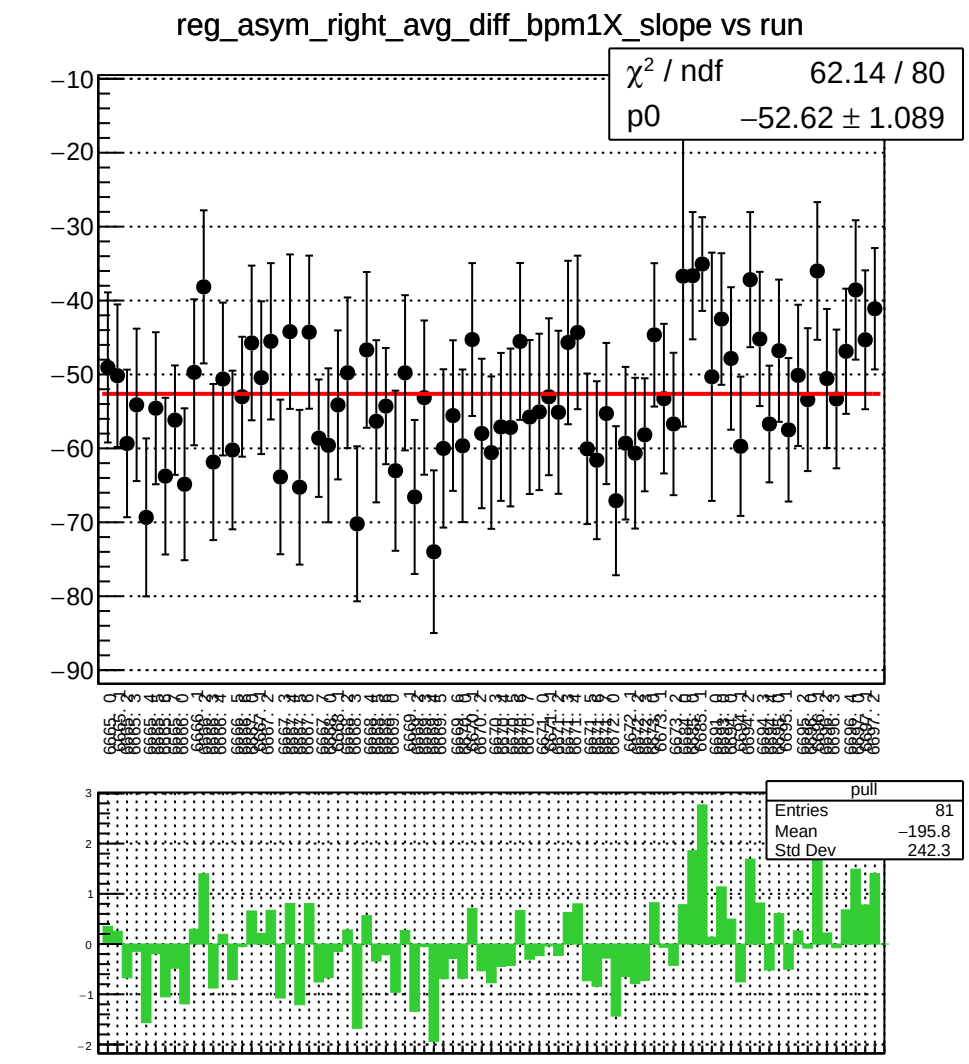

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 35.96 / 80
p0 10.75 ± 1.071
pull
Entries 81
Mean 171.7
Std Dev 121.8

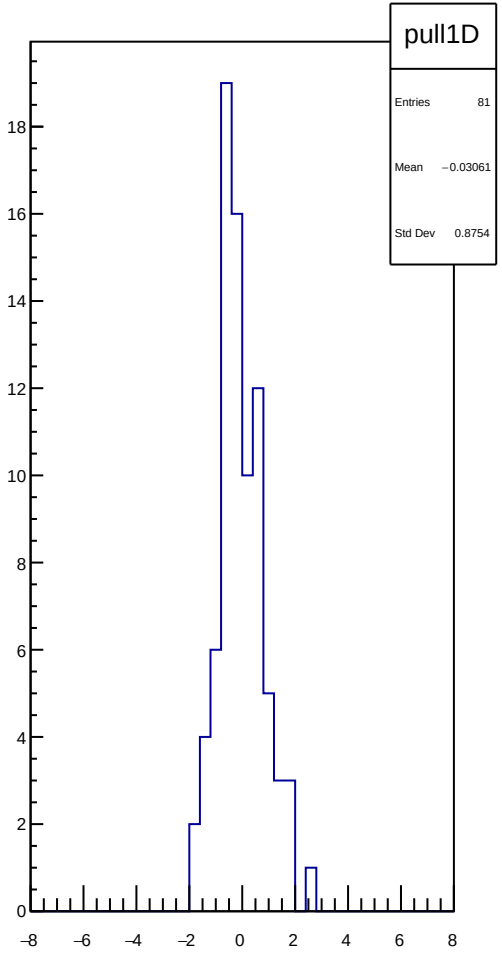

pull1D
Entries 81
Mean −0.03857
Std Dev 0.6652

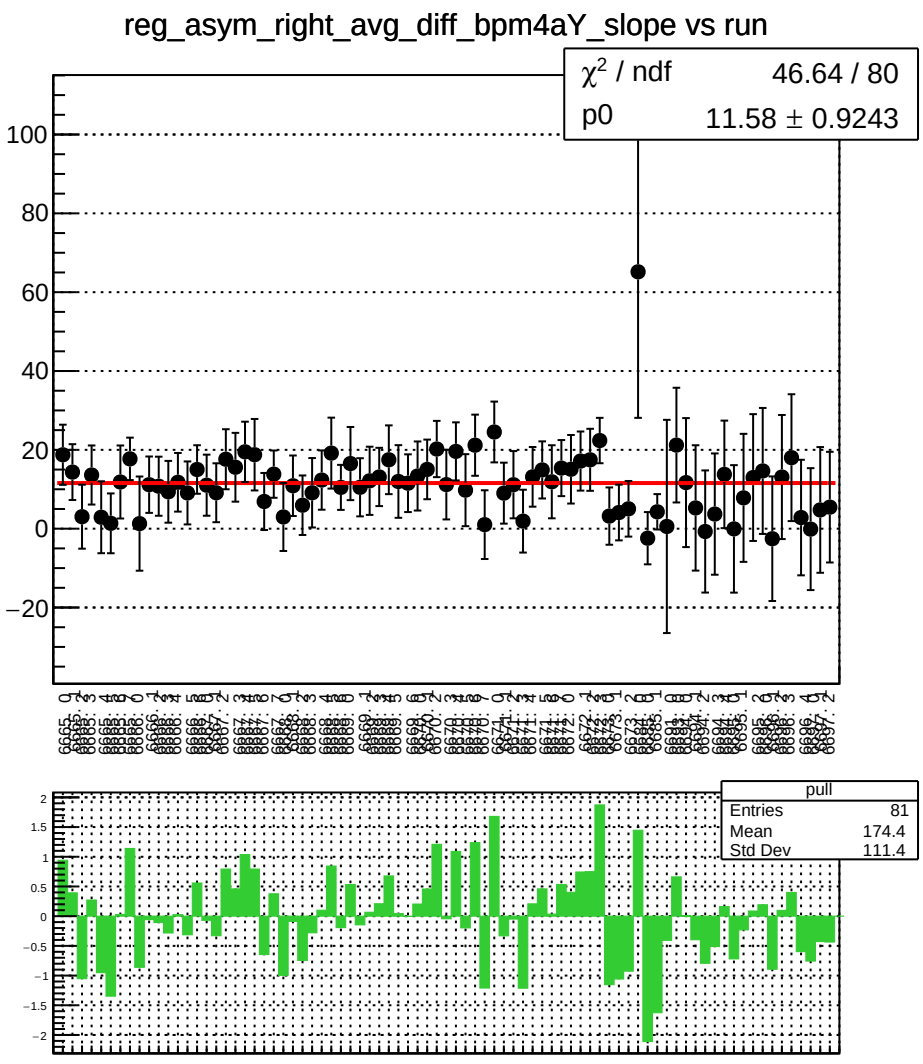

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 183.6 / 80
p0 40.69 ± 1.285
pull
Entries 81
Mean −72.72
Std Dev 116.2
pull1D
Entries 81
Mean 0.2238
Std Dev 1.489

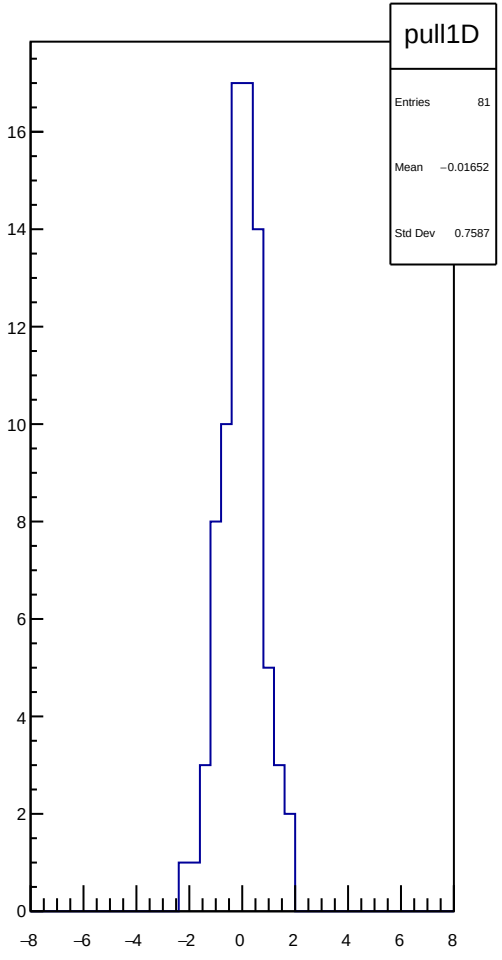

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 37.22 / 80
p0 1.405 ± 1.224
pull
Entries 81
Mean 269.7
Std Dev 221.4
pull1D
Entries 81
Mean 0.02422
Std Dev 0.6774

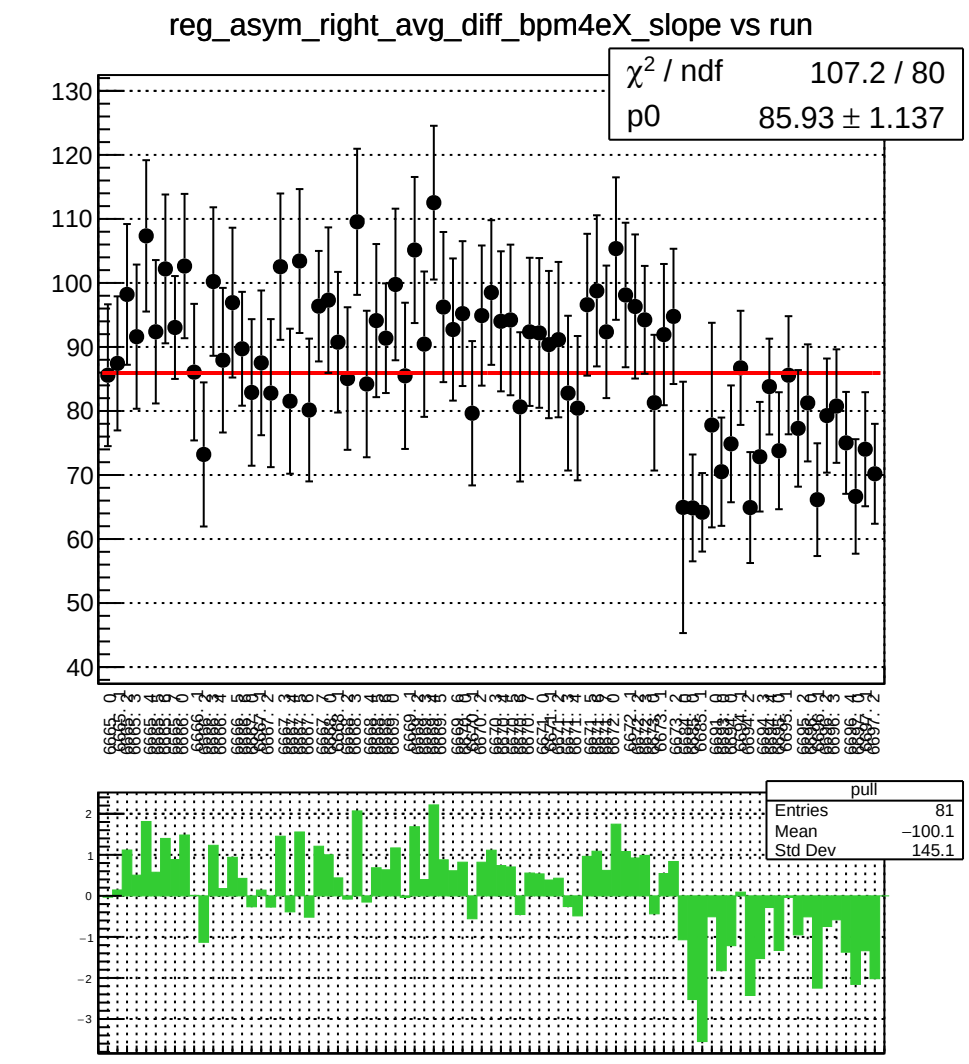

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 1.89e+04 / 80
p0 −34.06 ± 0.05091
pull
Entries 81
Mean −89.97
Std Dev 135.3
pull1D
Entries 81
Mean −7.966
Std Dev 0

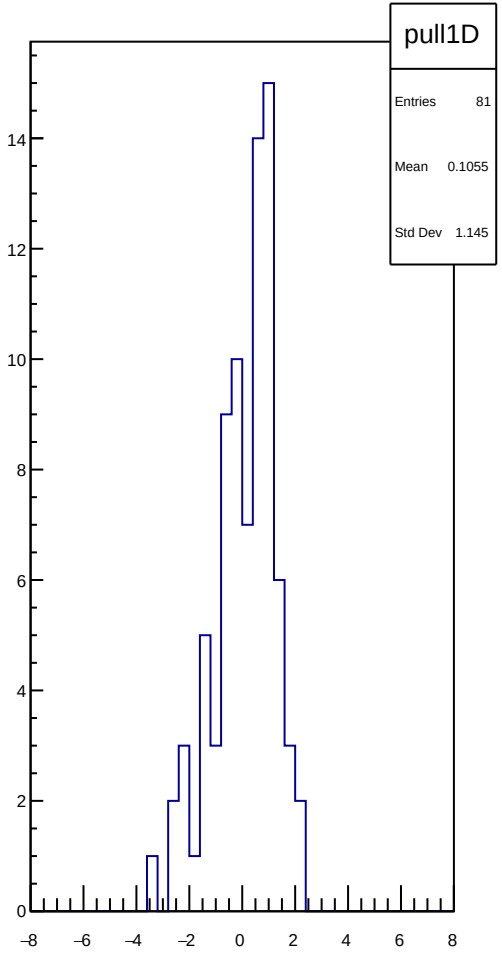

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 62.14 / 80
p0 −52.62 ± 1.089
pull
Entries 81
Mean −195.8
Std Dev 242.3

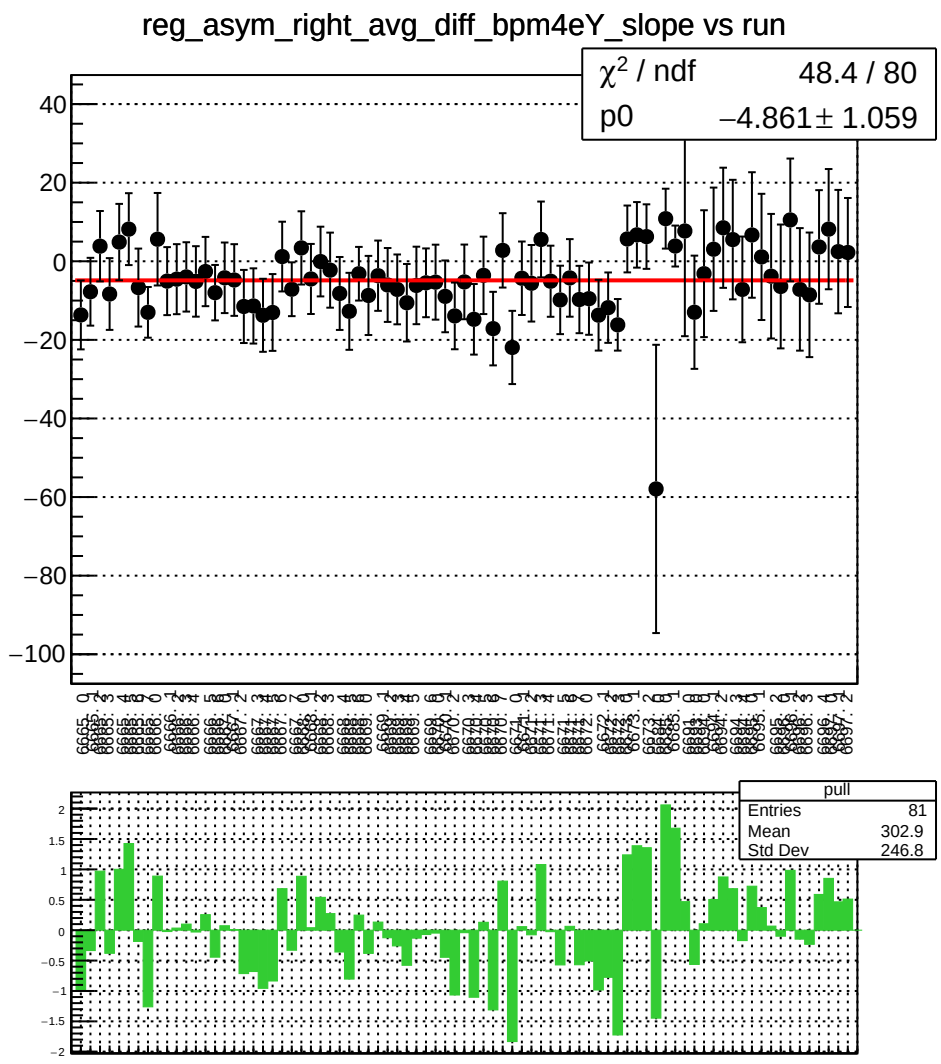

pull1D
Entries 81
Mean −0.03061
Std Dev 0.8754

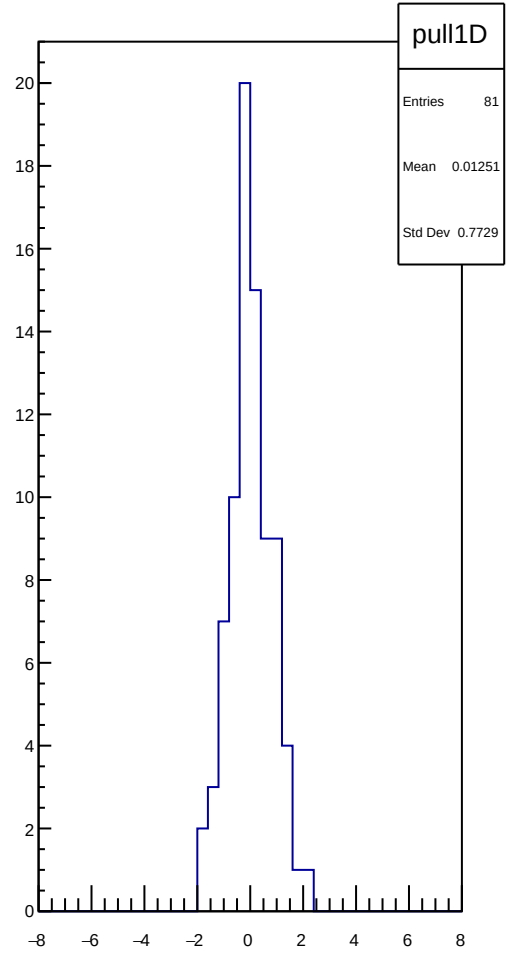

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 46.64 / 80
p0 11.58 ± 0.9243
pull
Entries 81
Mean 174.4
Std Dev 111.4

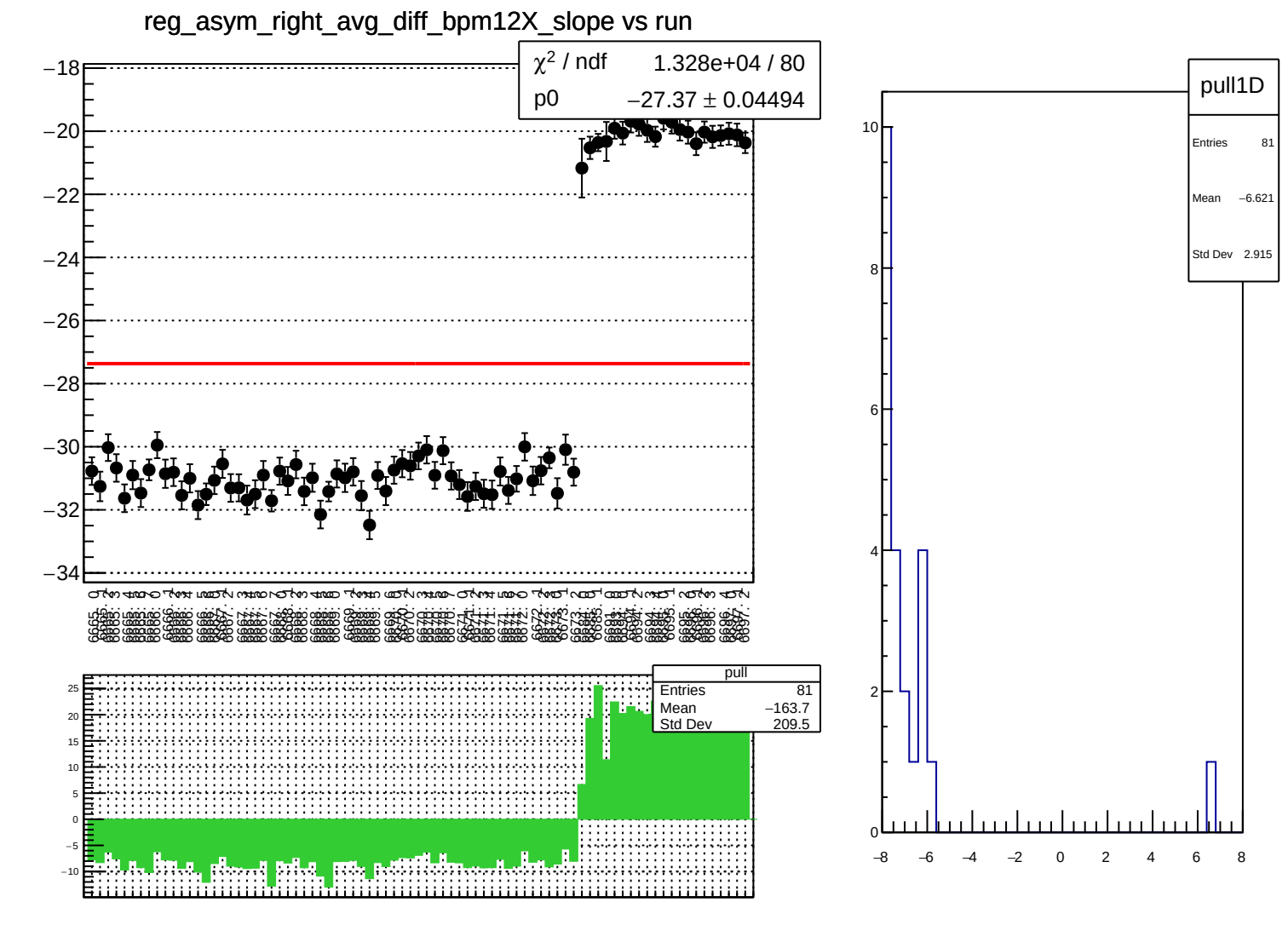

pull1D
Entries 81
Mean −0.01652
Std Dev 0.7587

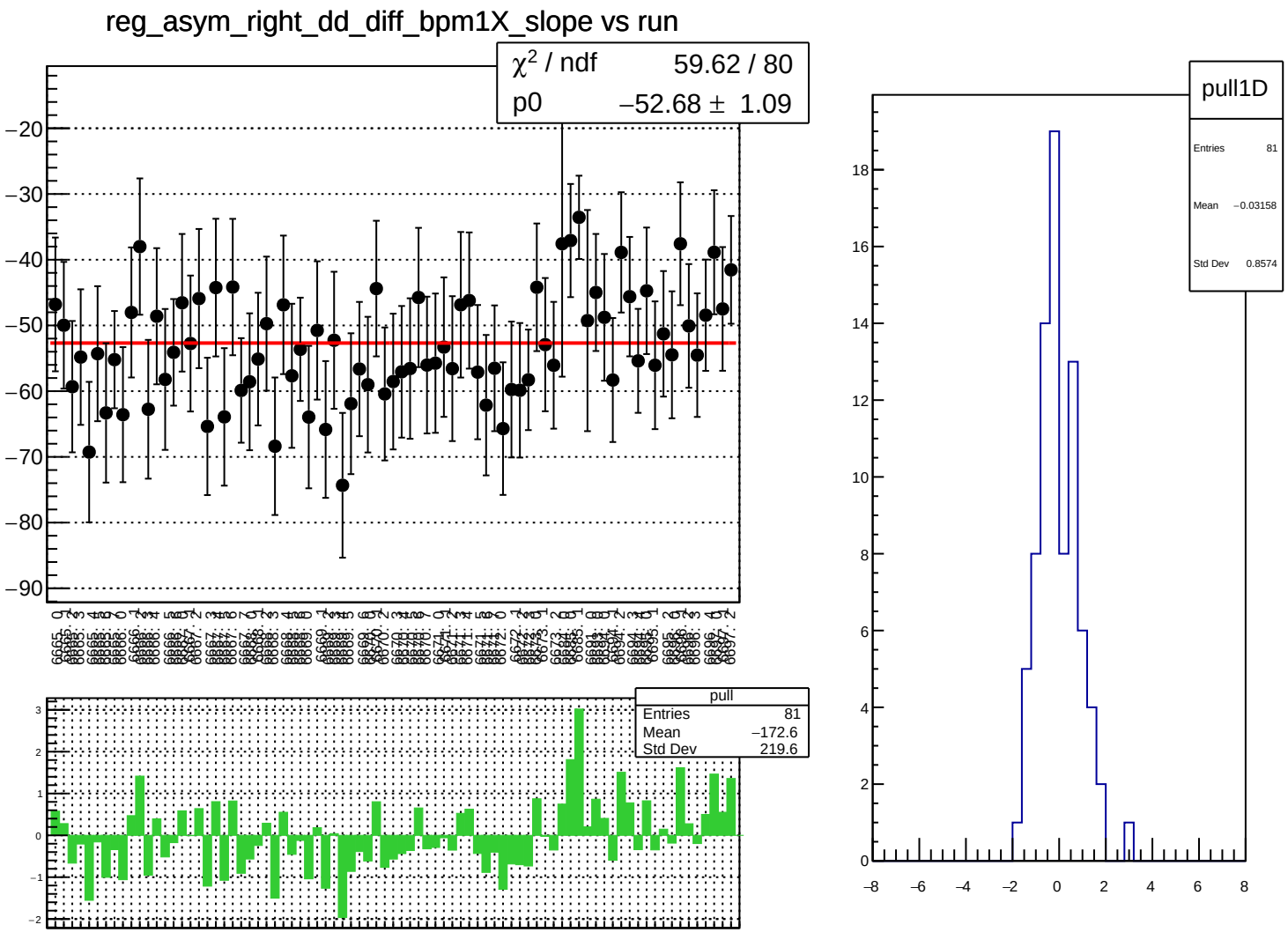

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 107.2 / 80
p0 85.93 ± 1.137
pull
Entries 81
Mean −100.1
Std Dev 145.1

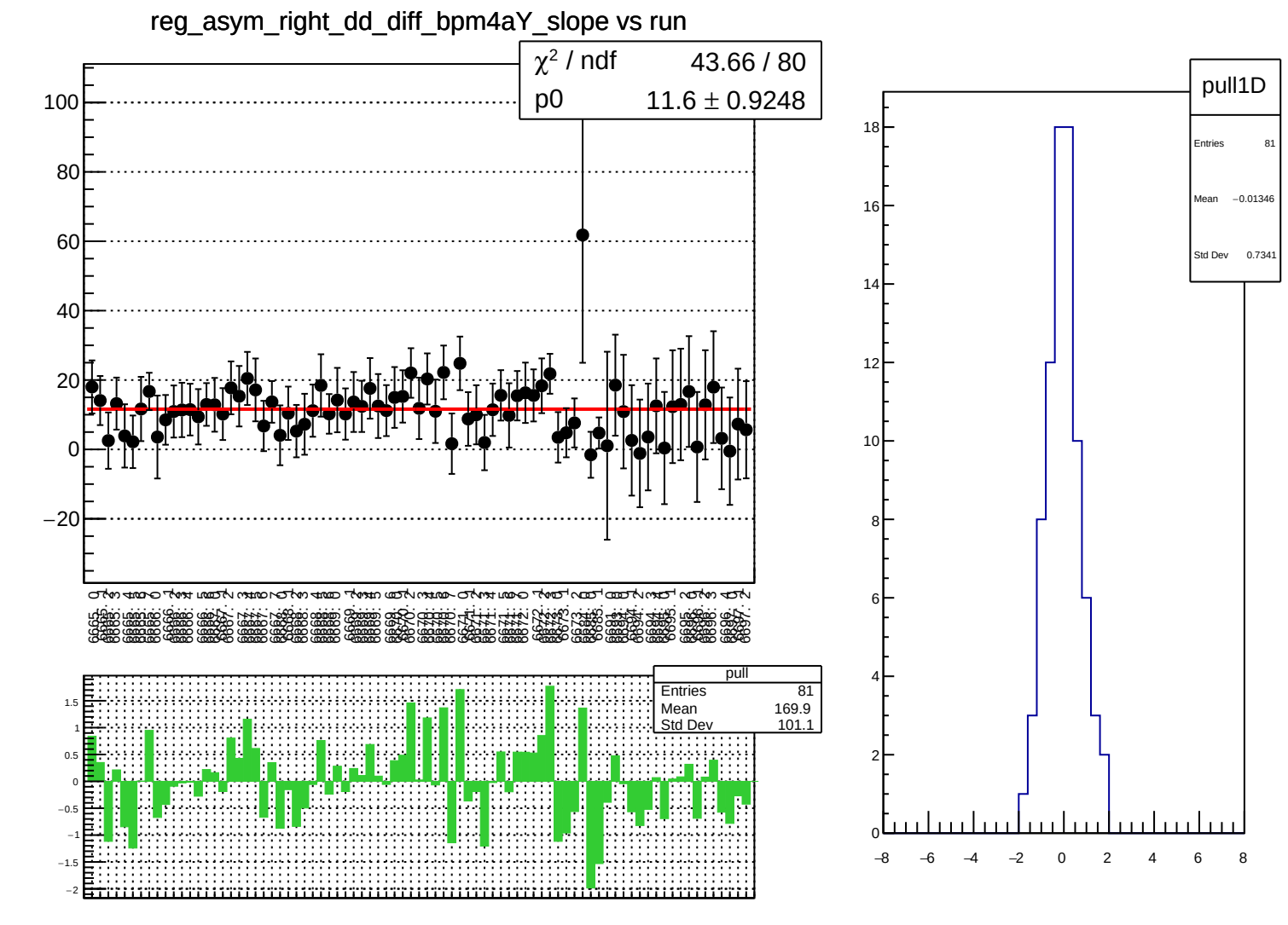

pull1D
Entries 81
Mean 0.1055
Std Dev 1.145

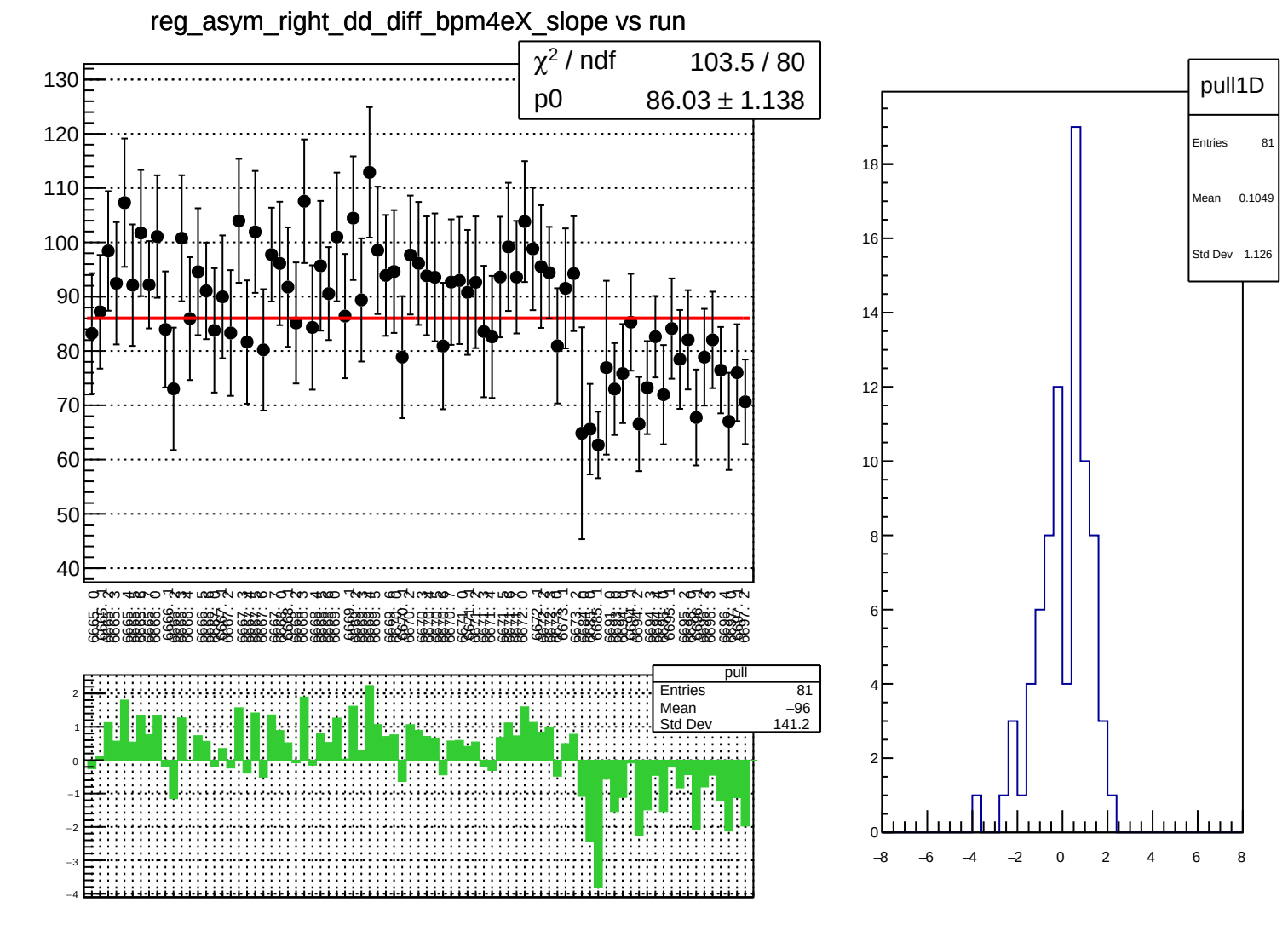

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.4 / 80
p0 −4.861± 1.059
pull
Entries 81
Mean 302.9
Std Dev 246.8

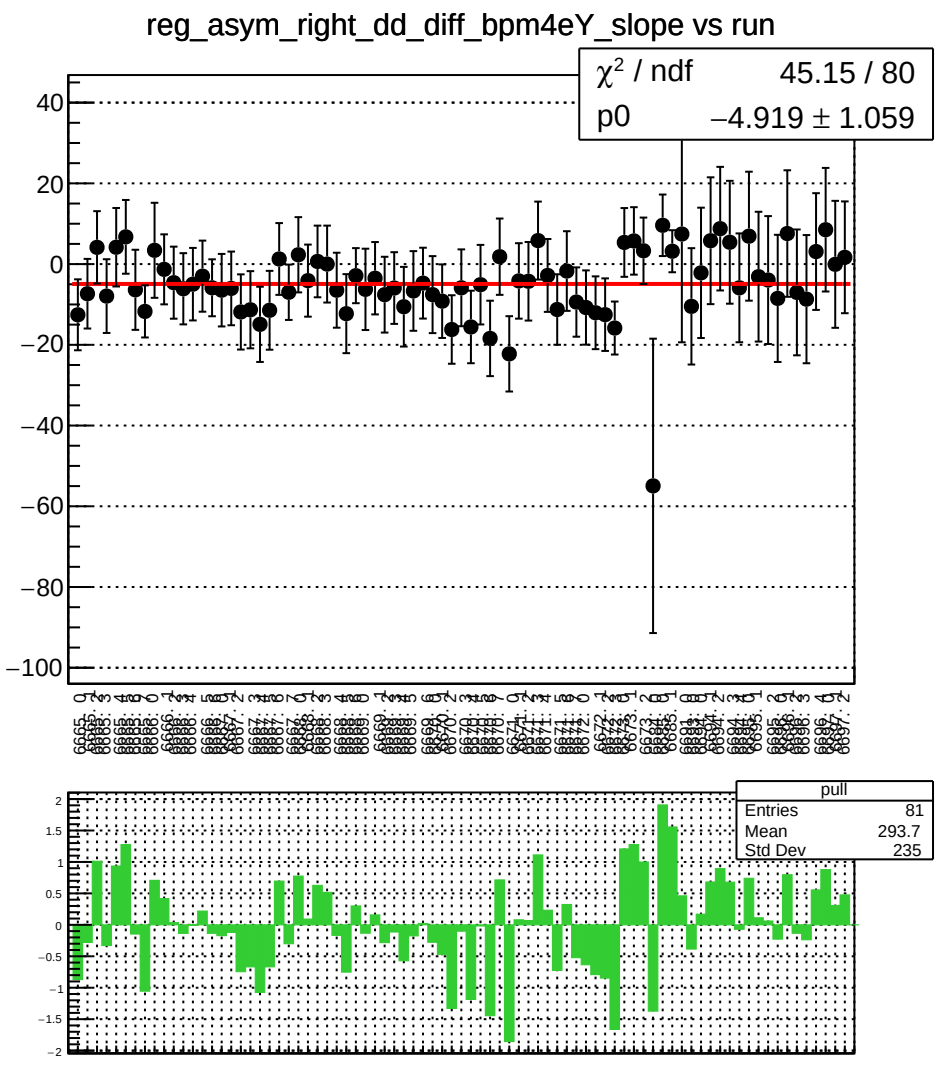

pull1D
Entries 81
Mean 0.01251
Std Dev 0.7729

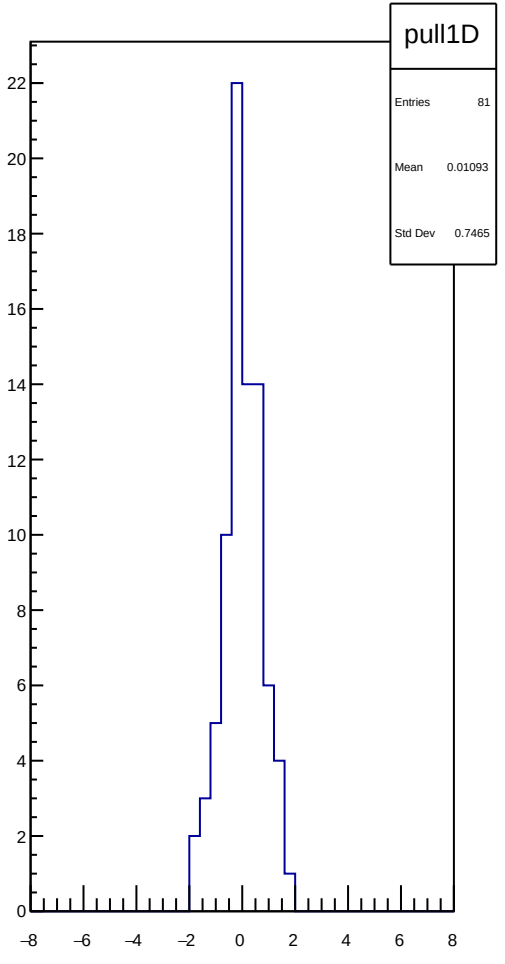

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 1.328e+04 / 80
p0 −27.37 ± 0.04494
pull
Entries 81
Mean −163.7
Std Dev 209.5
pull1D
Entries 81
Mean −6.621
Std Dev 2.915

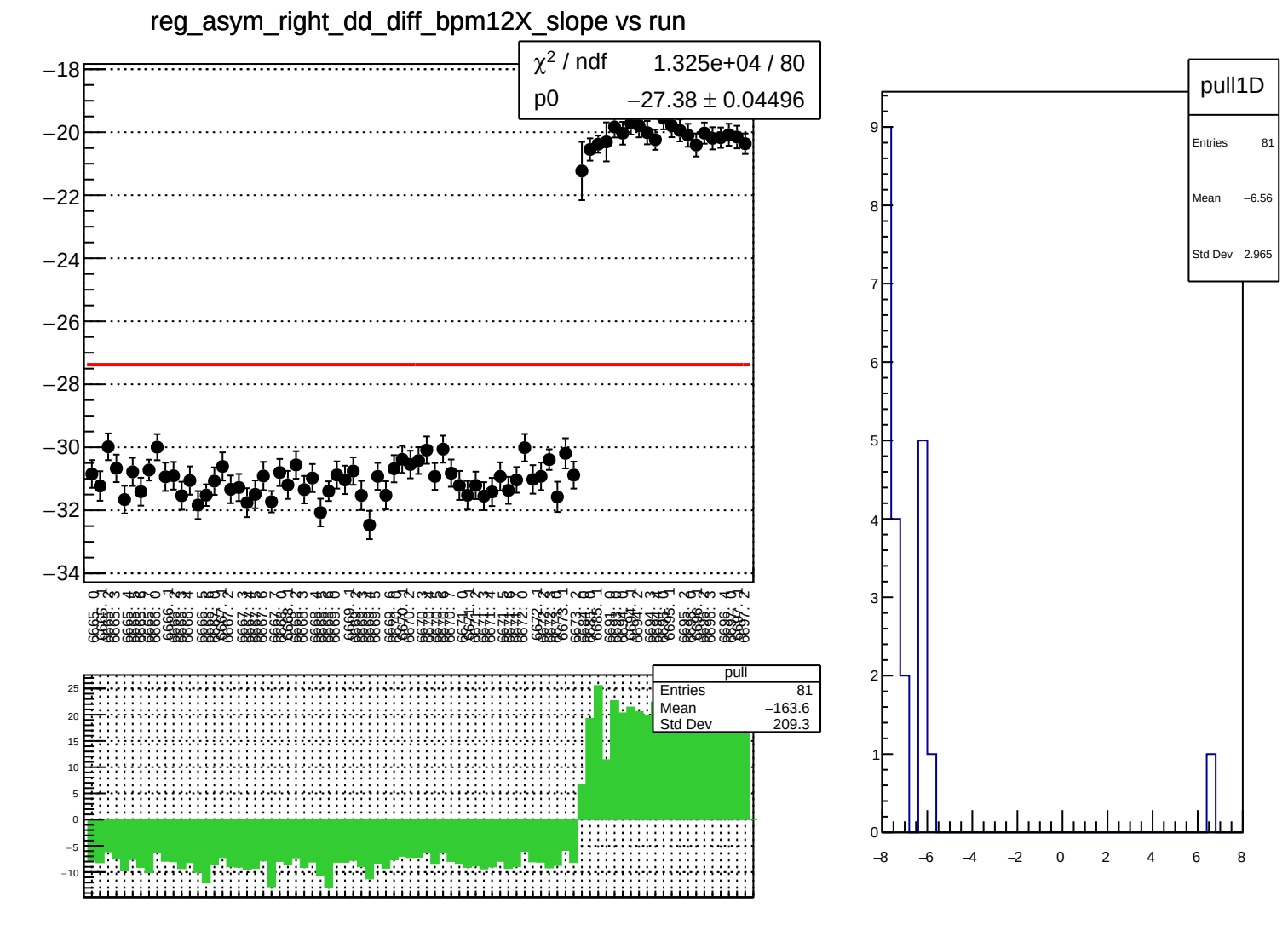

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 59.62 / 80
p0 −52.68 ± 1.09
pull
Entries 81
Mean −172.6
Std Dev 219.6
pull1D
Entries 81
Mean −0.03158
Std Dev 0.8574

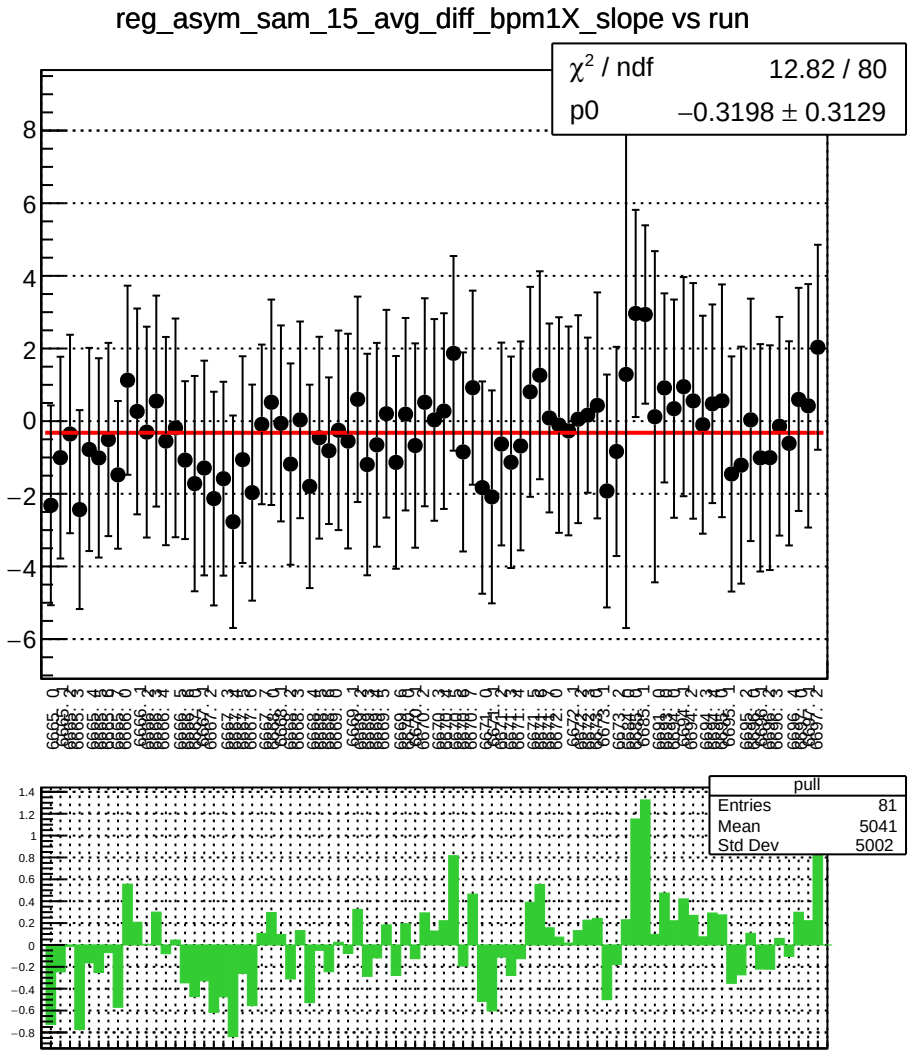

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.66 / 80
p0 11.6 ± 0.9248
pull
Entries 81
Mean 169.9
Std Dev 101.1
pull1D
Entries 81
Mean −0.01346
Std Dev 0.7341

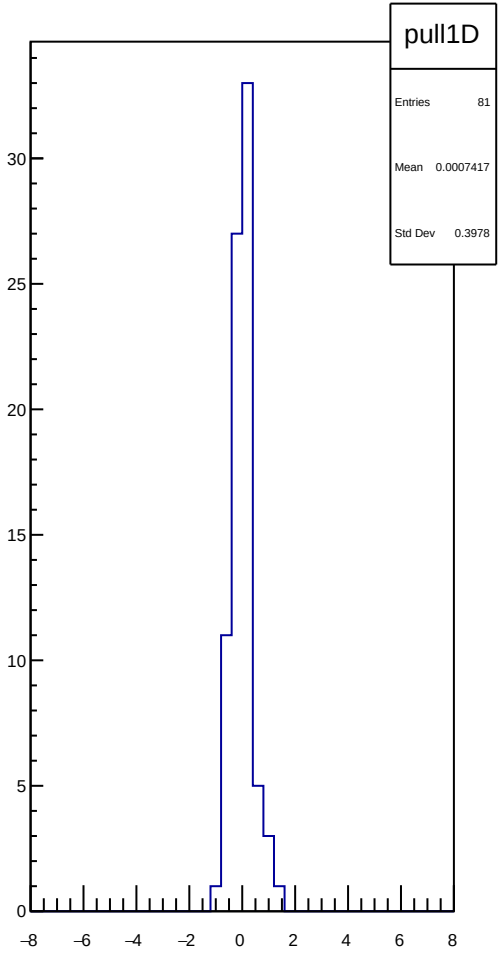

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 103.5 / 80
p0 86.03 ± 1.138
pull
Entries 81
Mean −96
Std Dev 141.2
pull1D
Entries 81
Mean 0.1049
Std Dev 1.126

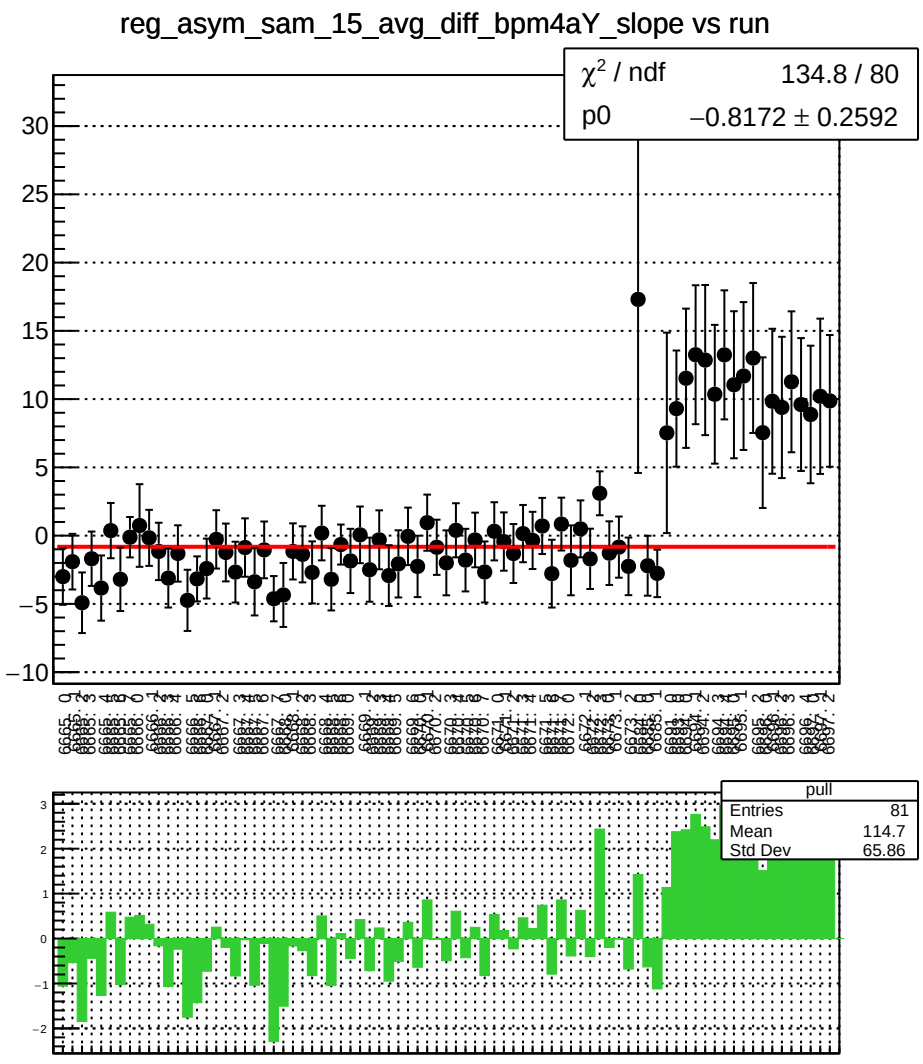

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.15 / 80
p0 −4.919 ± 1.059
pull
Entries 81
Mean 293.7
Std Dev 235

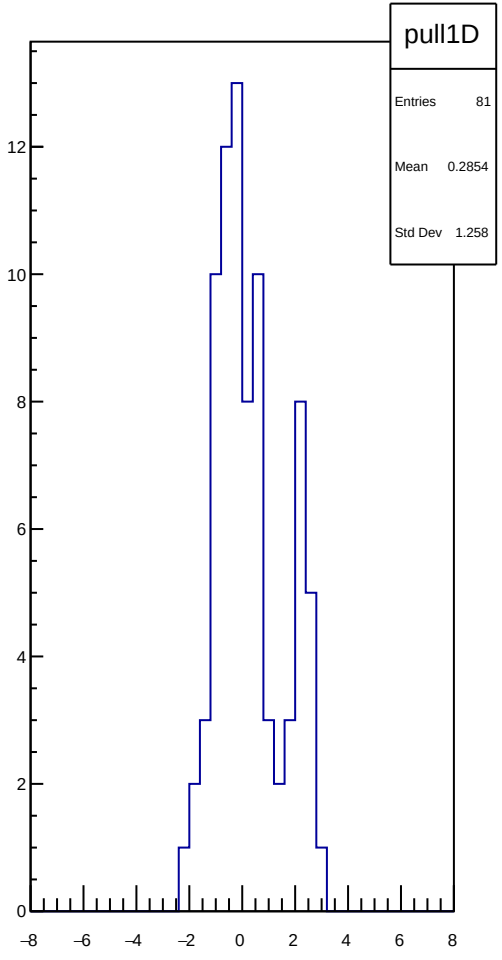

pull1D
Entries 81
Mean 0.01093
Std Dev 0.7465

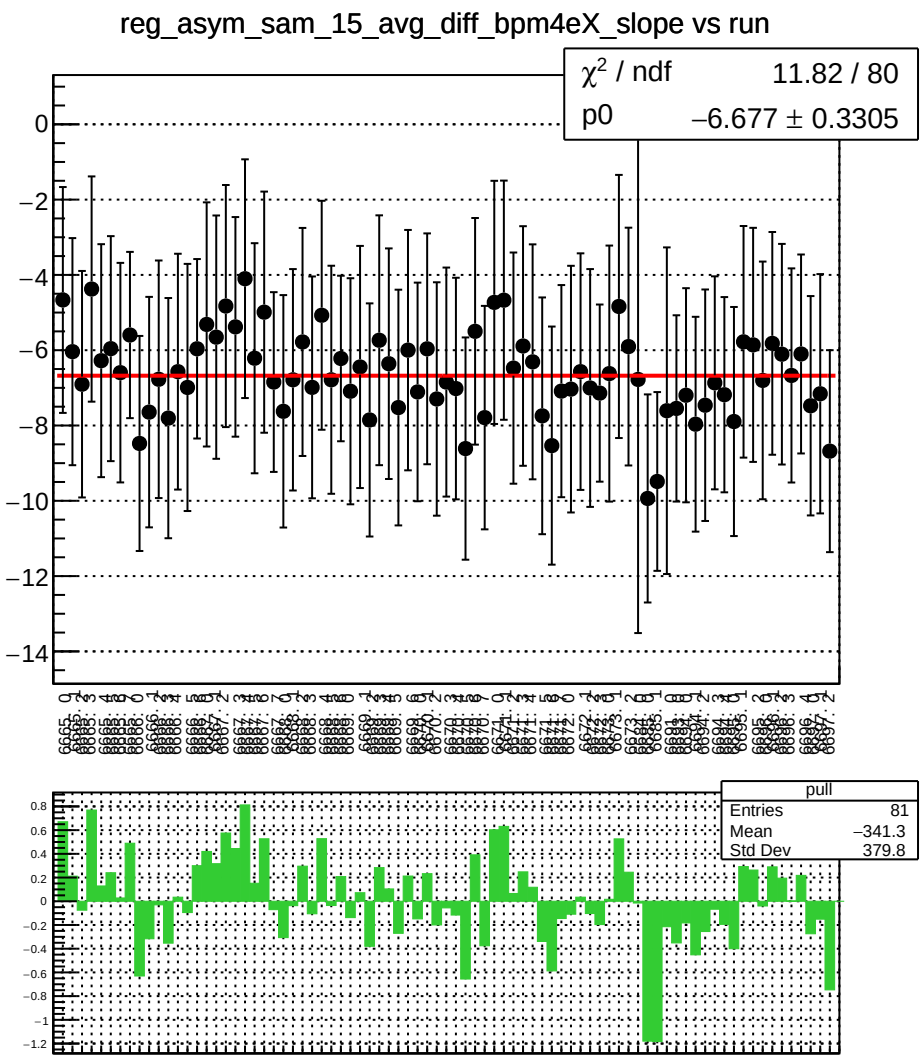

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 1.325e+04 / 80
p0 −27.38 ± 0.04496
pull
Entries 81
Mean −163.6
Std Dev 209.3
pull1D
Entries 81
Mean −6.56
Std Dev 2.965

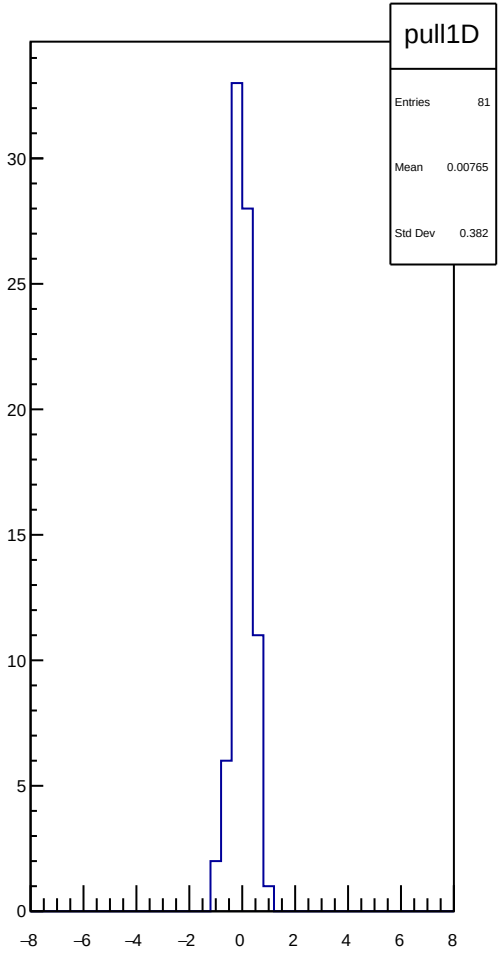

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 12.82 / 80
p0 −0.3198 ± 0.3129
pull
Entries 81
Mean 5041
Std Dev 5002

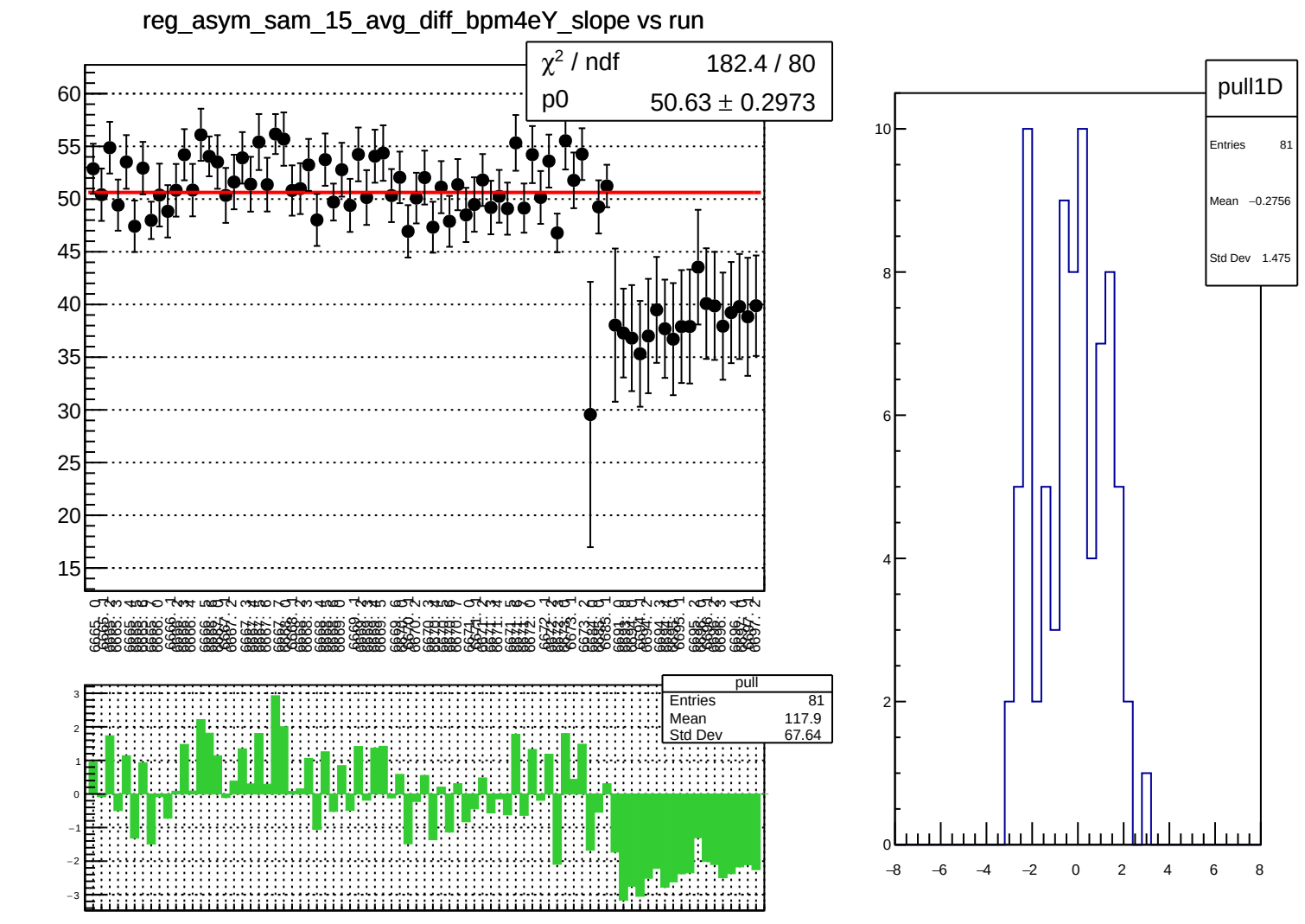

pull1D
Entries 81
Mean 0.0007417
Std Dev 0.3978

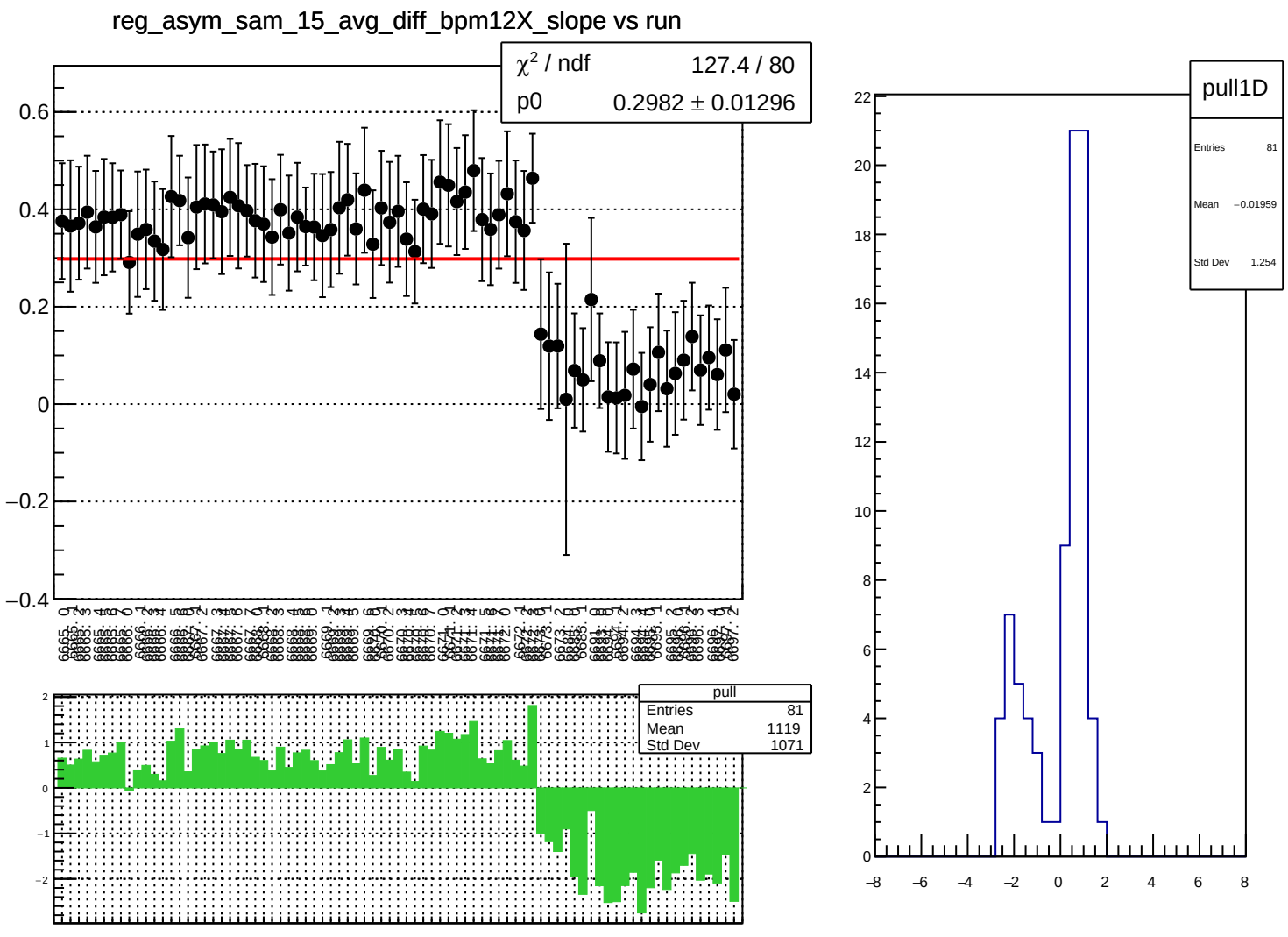

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 134.8 / 80
p0 −0.8172 ± 0.2592
pull
Entries 81
Mean 114.7
Std Dev 65.86

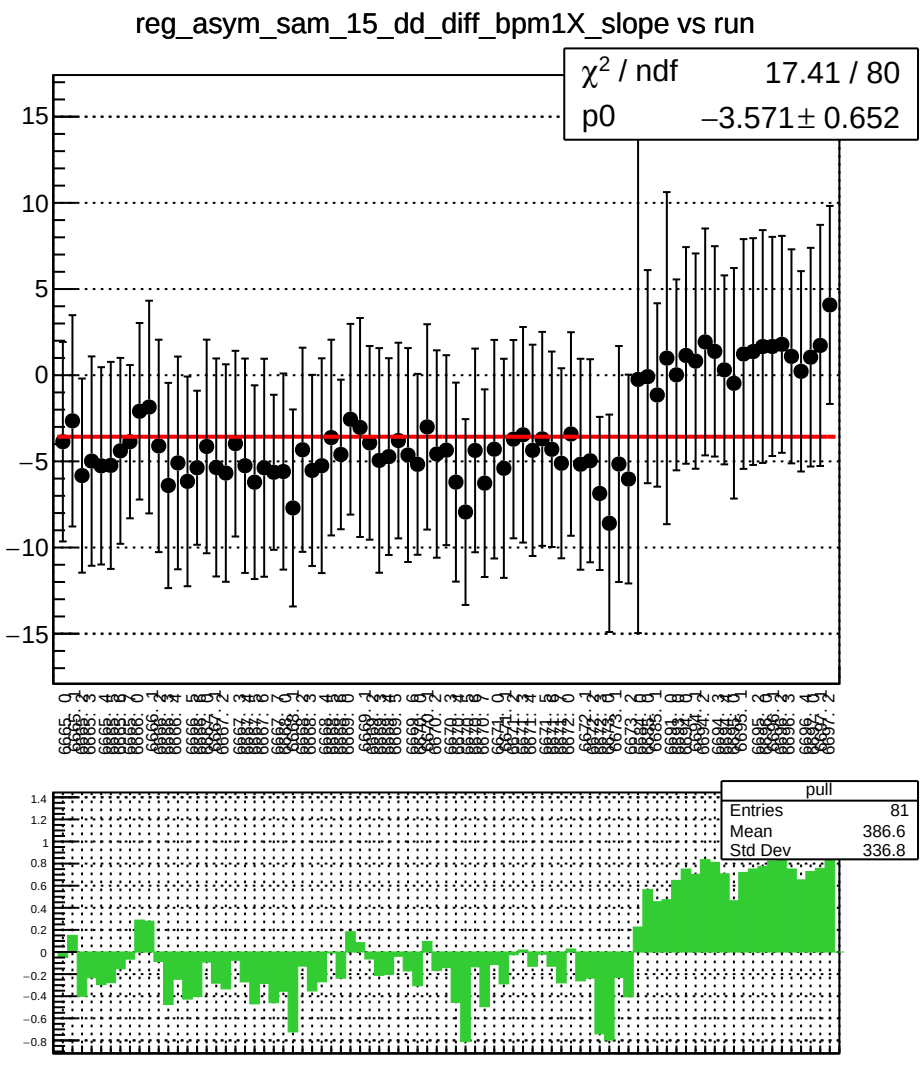

pull1D
Entries 81
Mean 0.2854
Std Dev 1.258

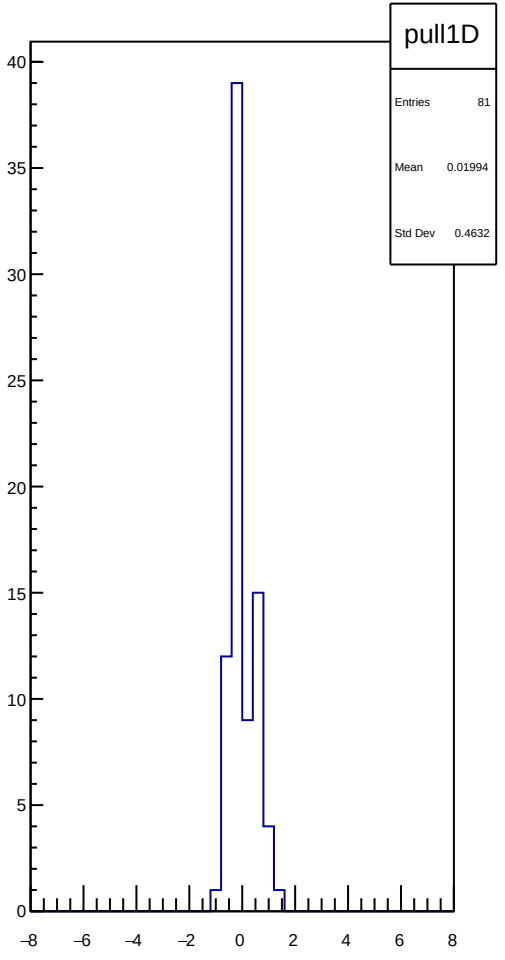

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 11.82 / 80
p0 −6.677 ± 0.3305
pull
Entries 81
Mean −341.3
Std Dev 379.8

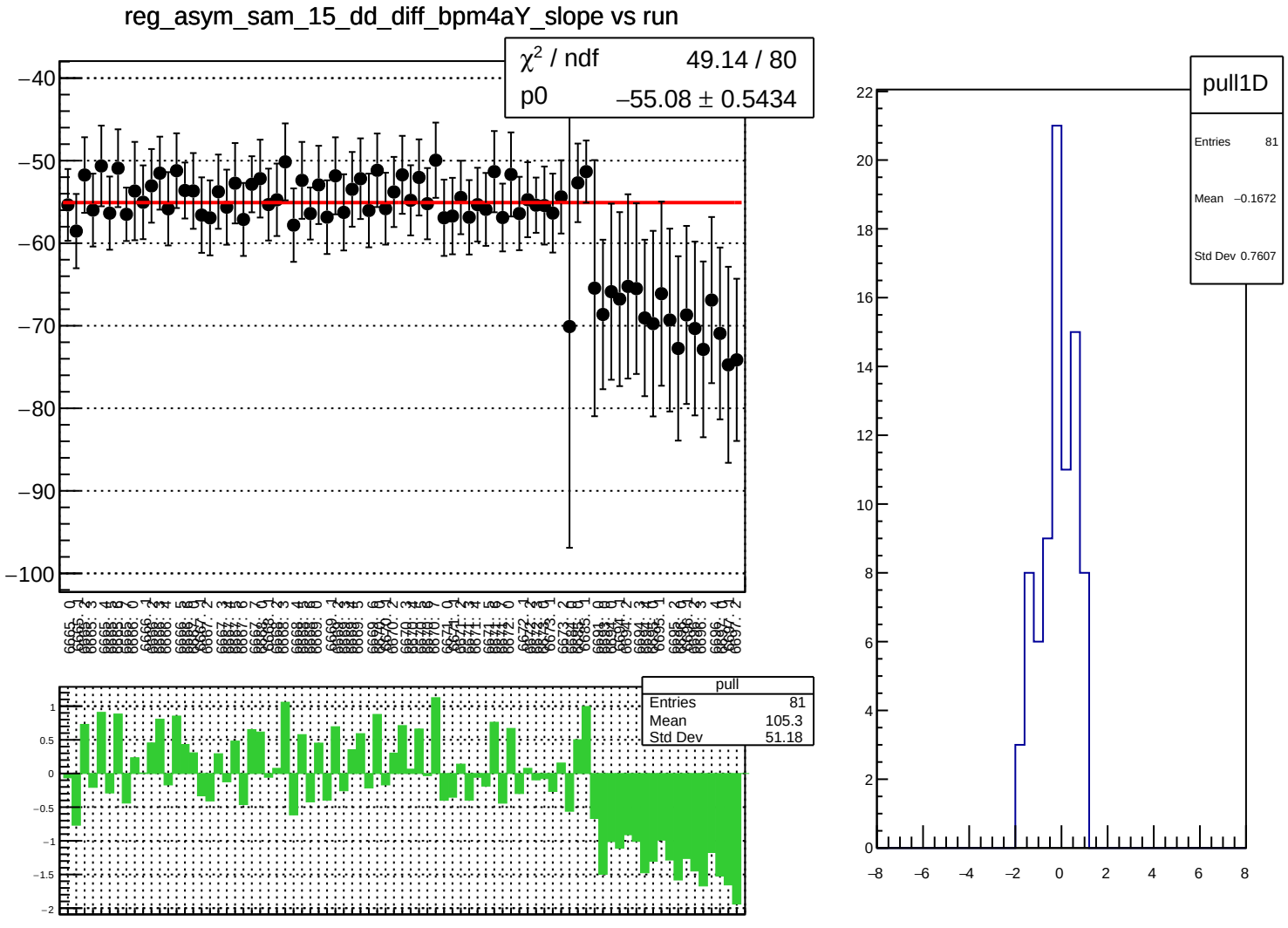

pull1D
Entries 81
Mean 0.00765
Std Dev 0.382

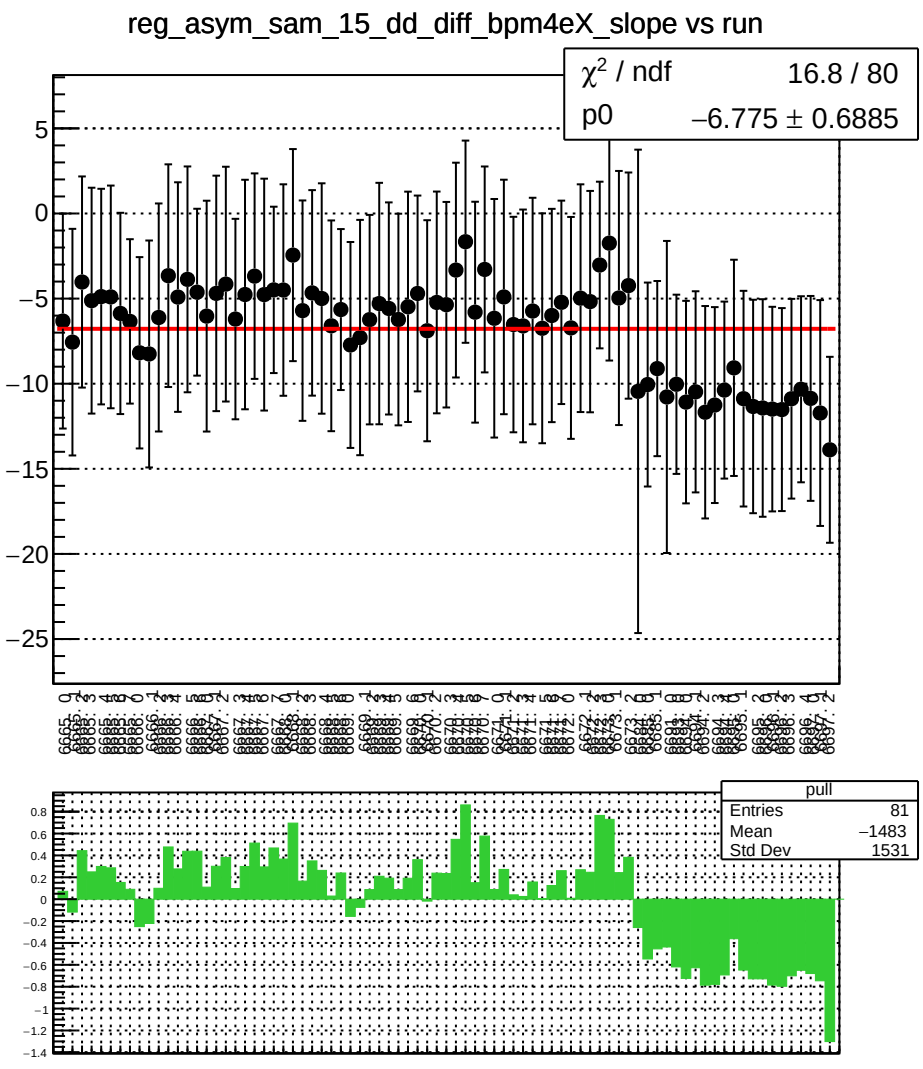

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 182.4 / 80
p0 50.63 ± 0.2973
pull
Entries 81
Mean 117.9
Std Dev 67.64
pull1D
Entries 81
Mean −0.2756
Std Dev 1.475

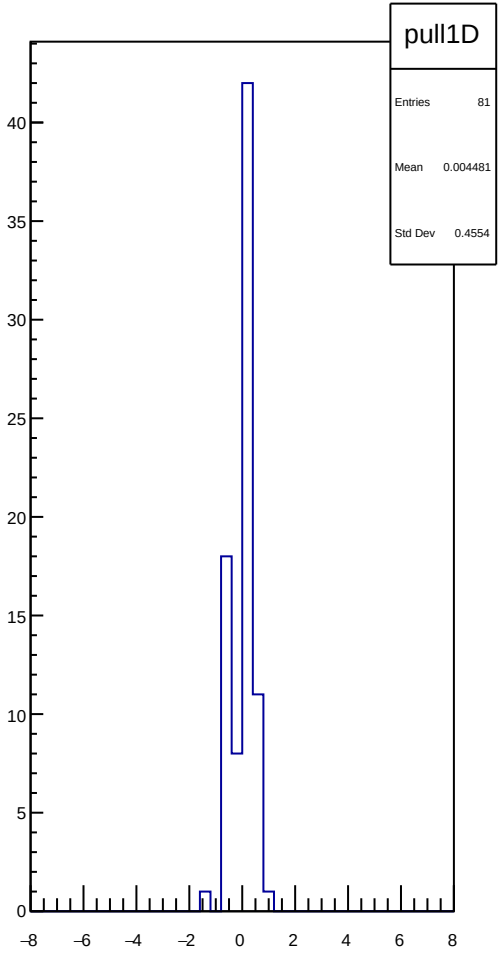

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 127.4 / 80
p0 0.2982 ± 0.01296
pull
Entries 81
Mean 1119
Std Dev 1071
pull1D
Entries 81
Mean −0.01959
Std Dev 1.254

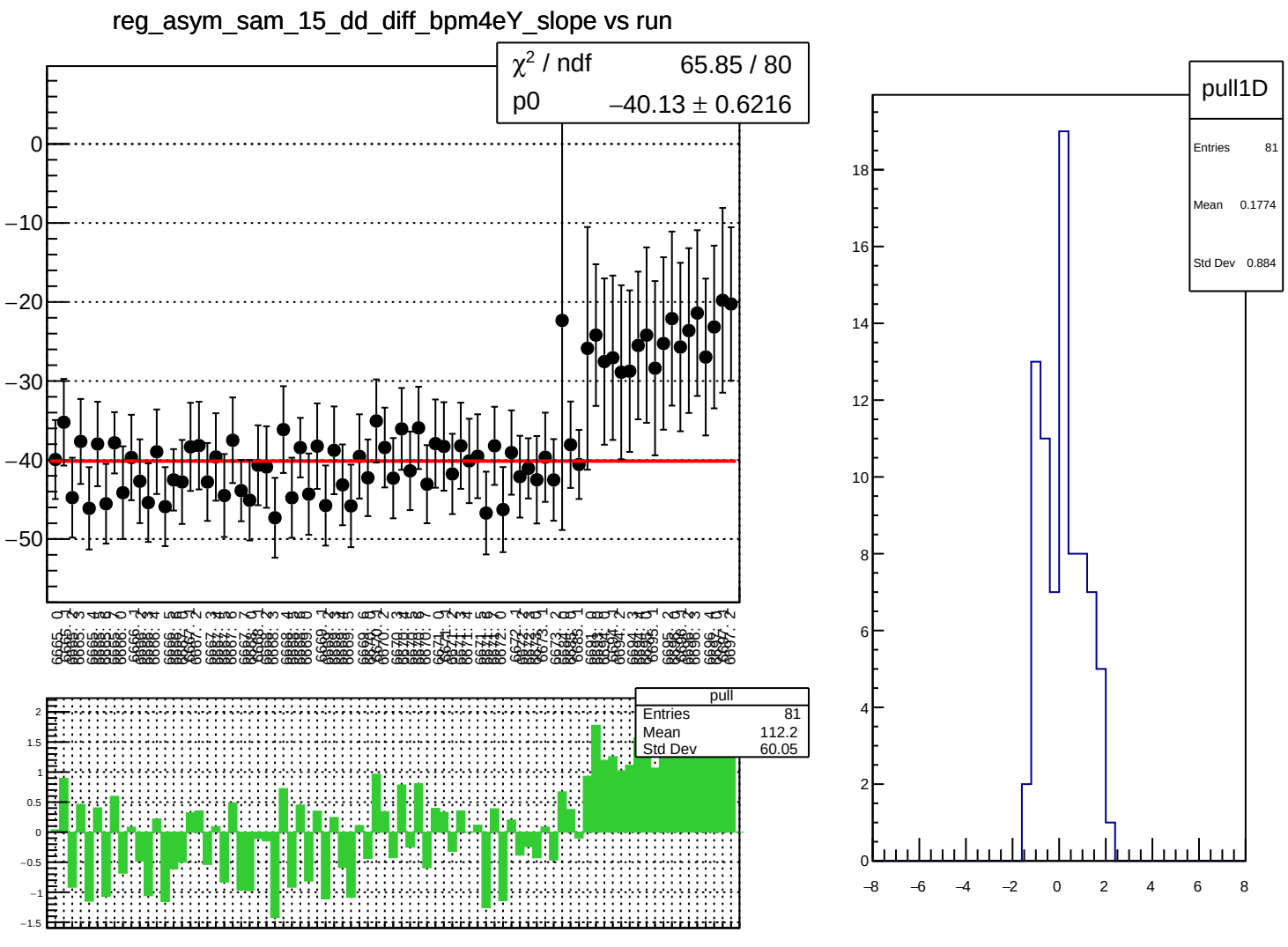

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 17.41 / 80
p0 −3.571± 0.652
pull
Entries 81
Mean 386.6
Std Dev 336.8

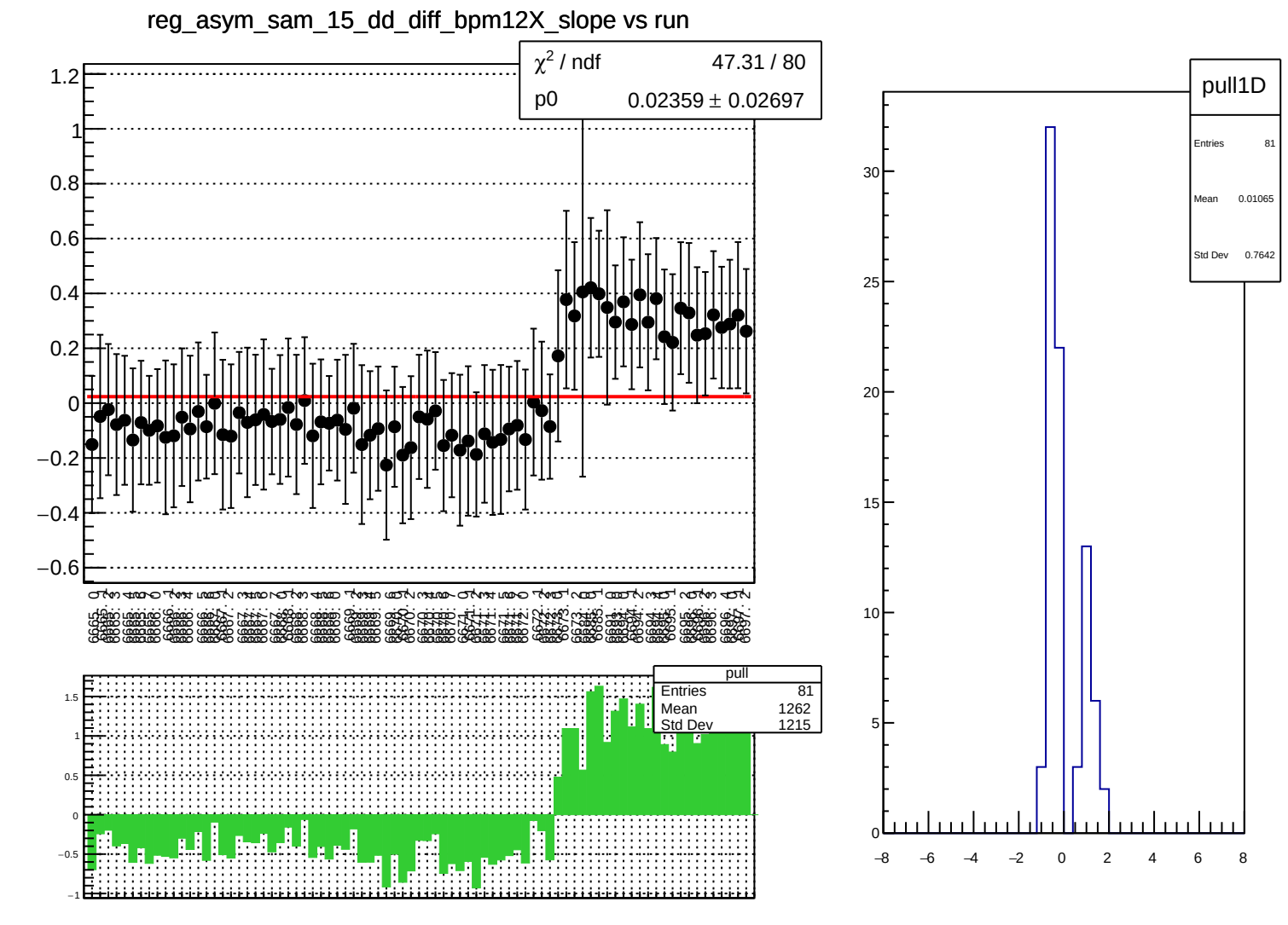

pull1D
Entries 81
Mean 0.01994
Std Dev 0.4632

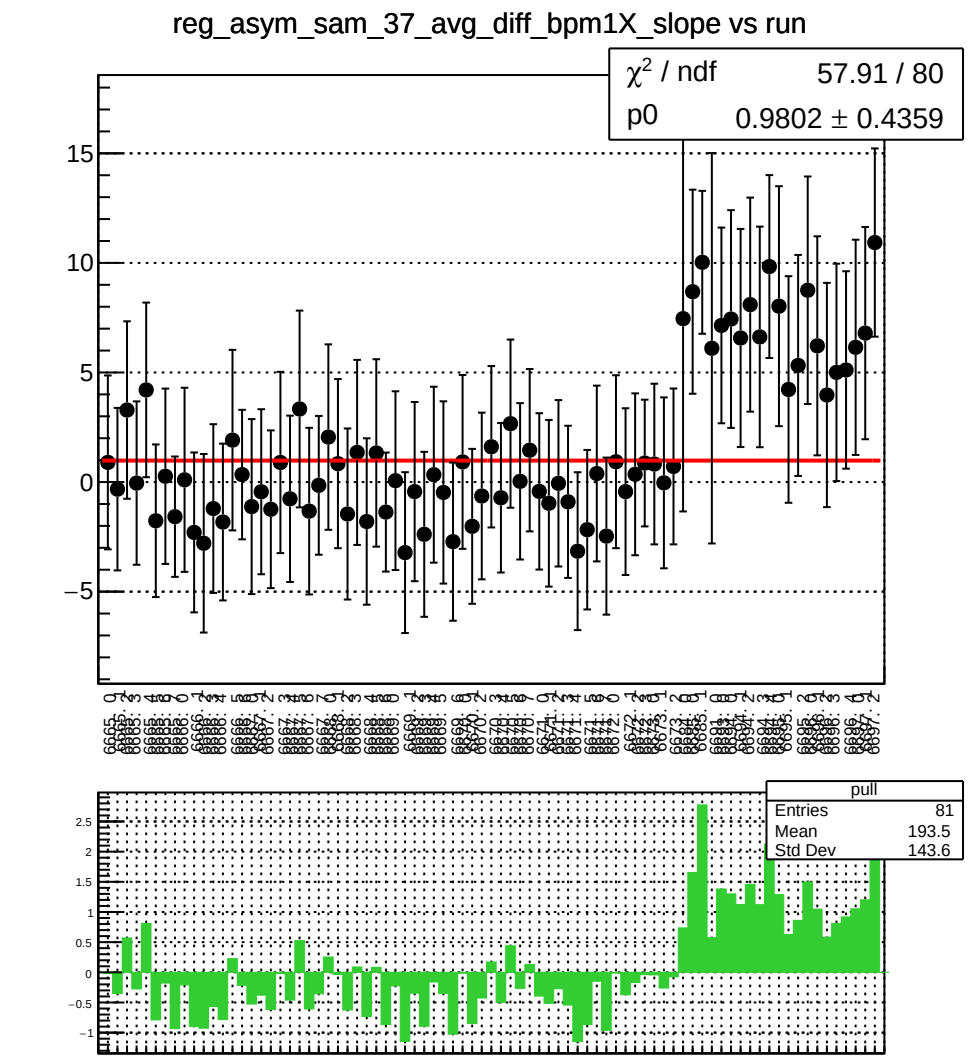

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 49.14 / 80
p0 −55.08 ± 0.5434
pull
Entries 81
Mean 105.3
Std Dev 51.18
pull1D
Entries 81
Mean −0.1672
Std Dev 0.7607

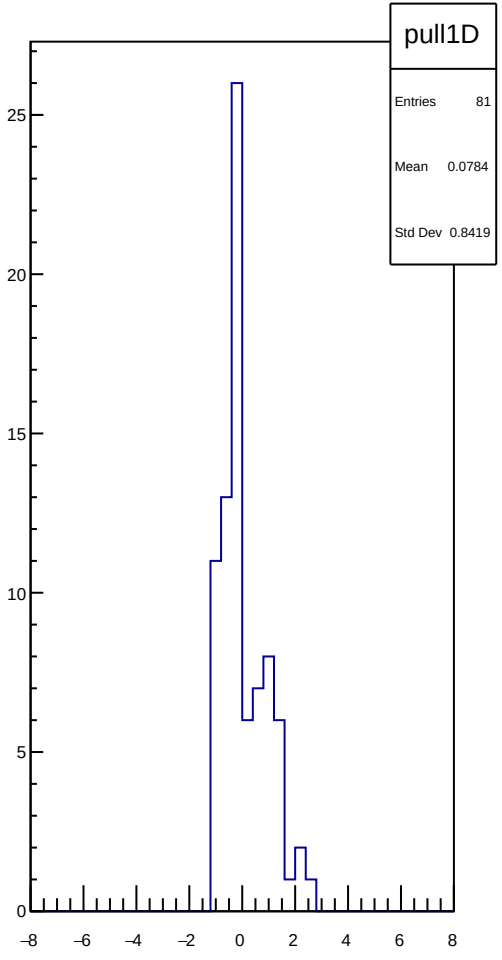

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 16.8 / 80
p0 −6.775 ± 0.6885
pull
Entries 81
Mean −1483
Std Dev 1531

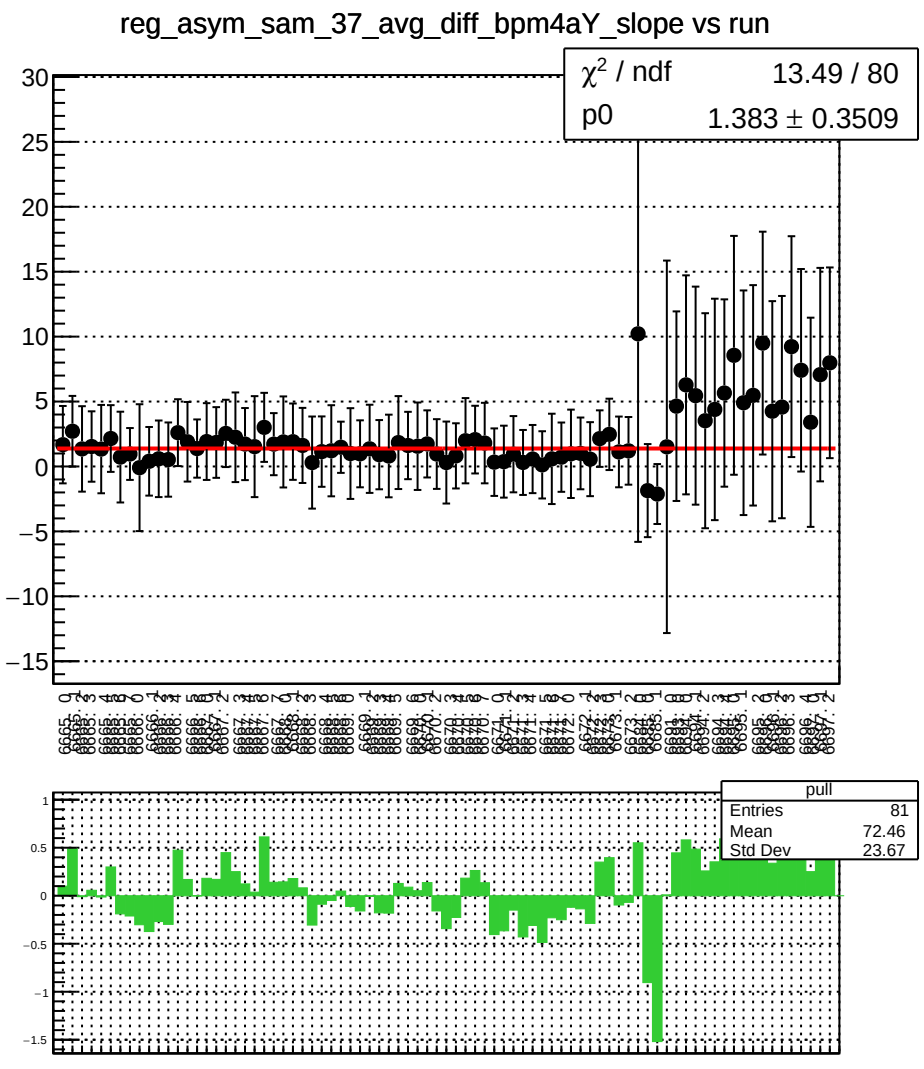

pull1D
Entries 81
Mean 0.004481
Std Dev 0.4554

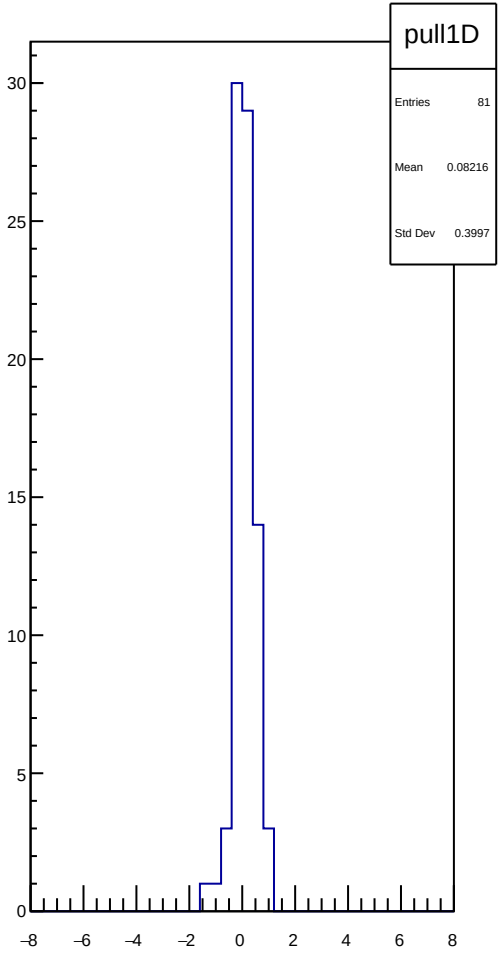

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 65.85 / 80
p0 −40.13 ± 0.6216
pull
Entries 81
Mean 112.2
Std Dev 60.05
pull1D
Entries 81
Mean 0.1774
Std Dev 0.884

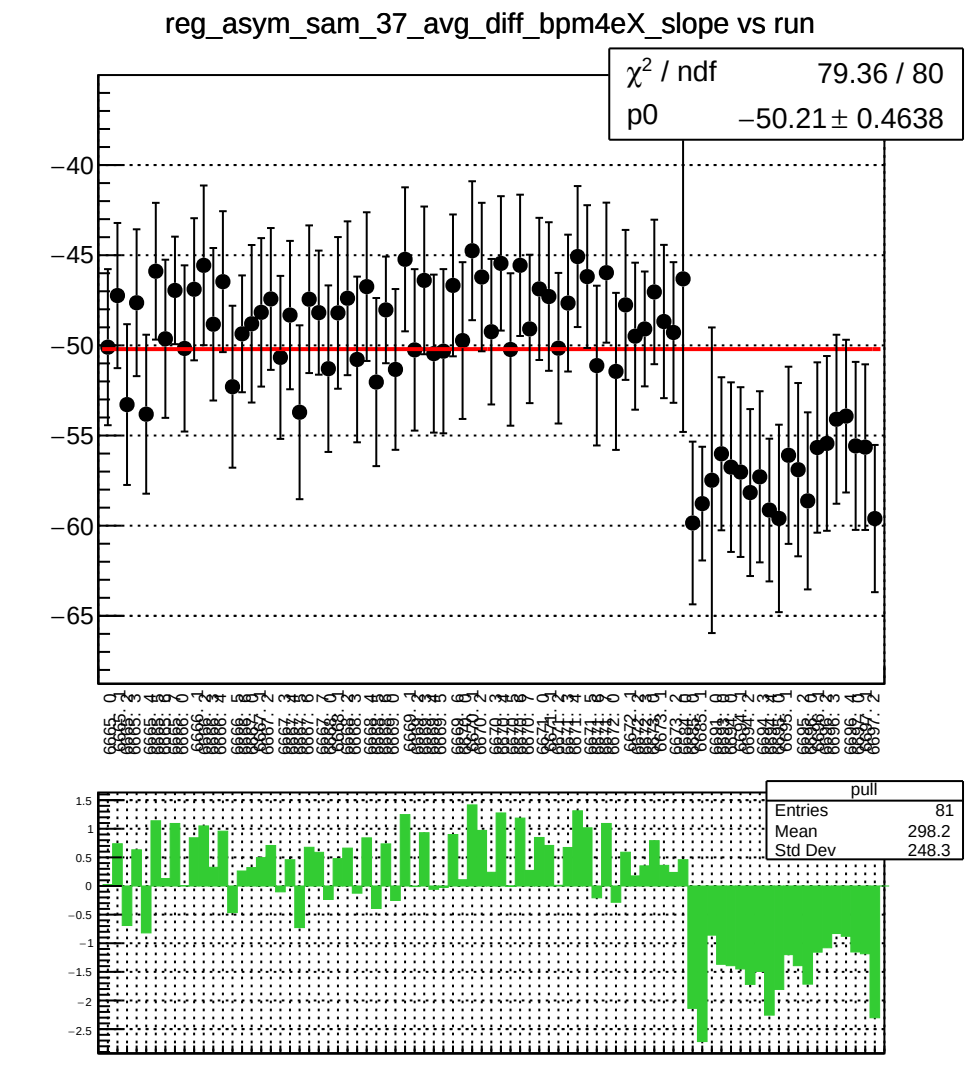

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 47.31 / 80
p0 0.02359 ± 0.02697
pull
Entries 81
Mean 1262
Std Dev 1215
pull1D
Entries 81
Mean 0.01065
Std Dev 0.7642

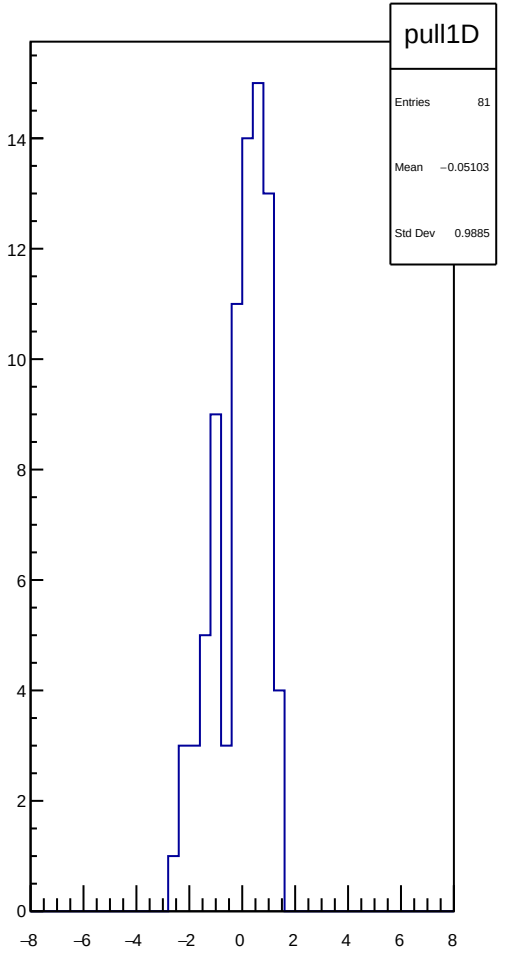

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 57.91 / 80
p0 0.9802 ± 0.4359
pull
Entries 81
Mean 193.5
Std Dev 143.6

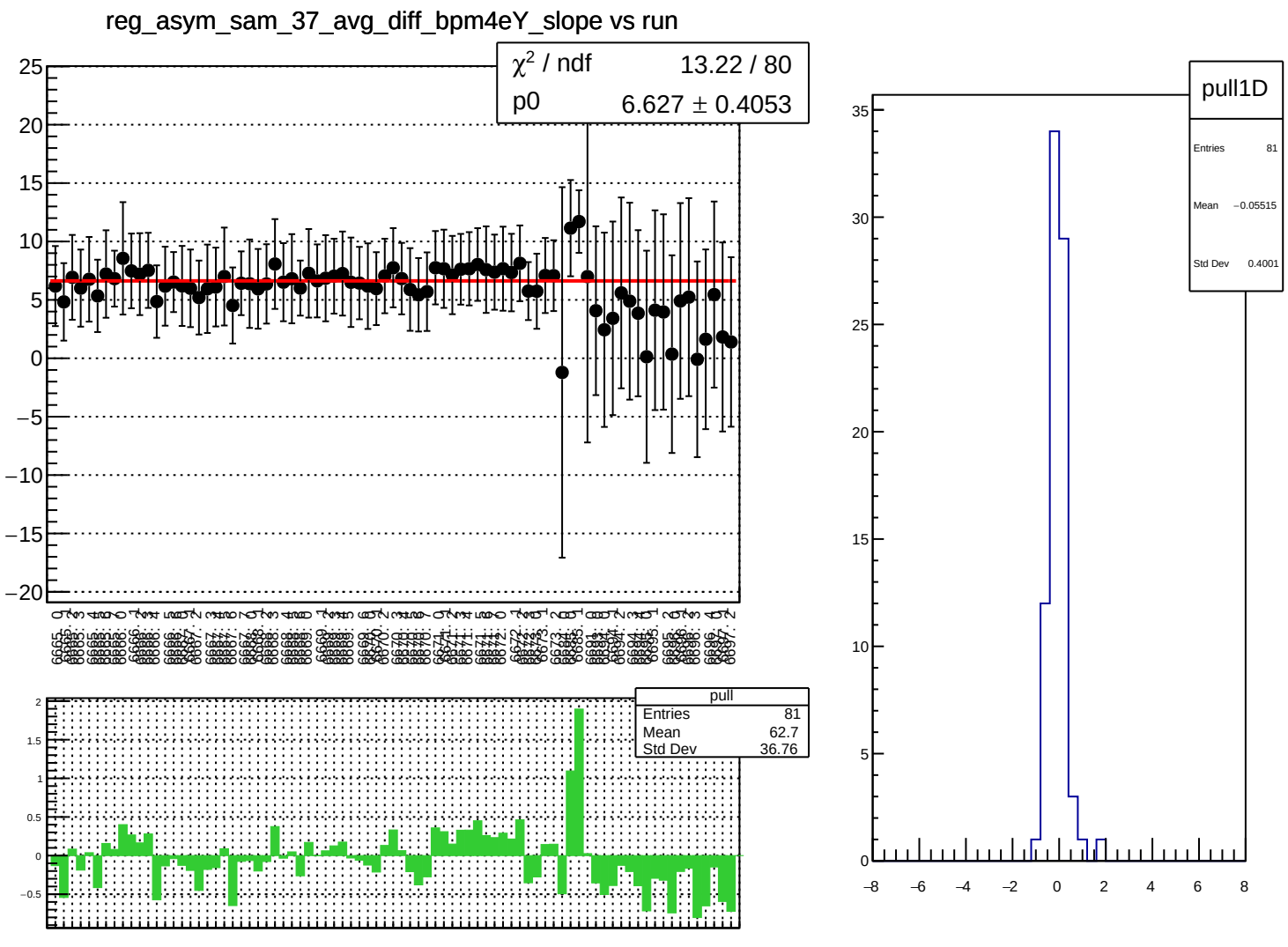

pull1D
Entries 81
Mean 0.0784
Std Dev 0.8419

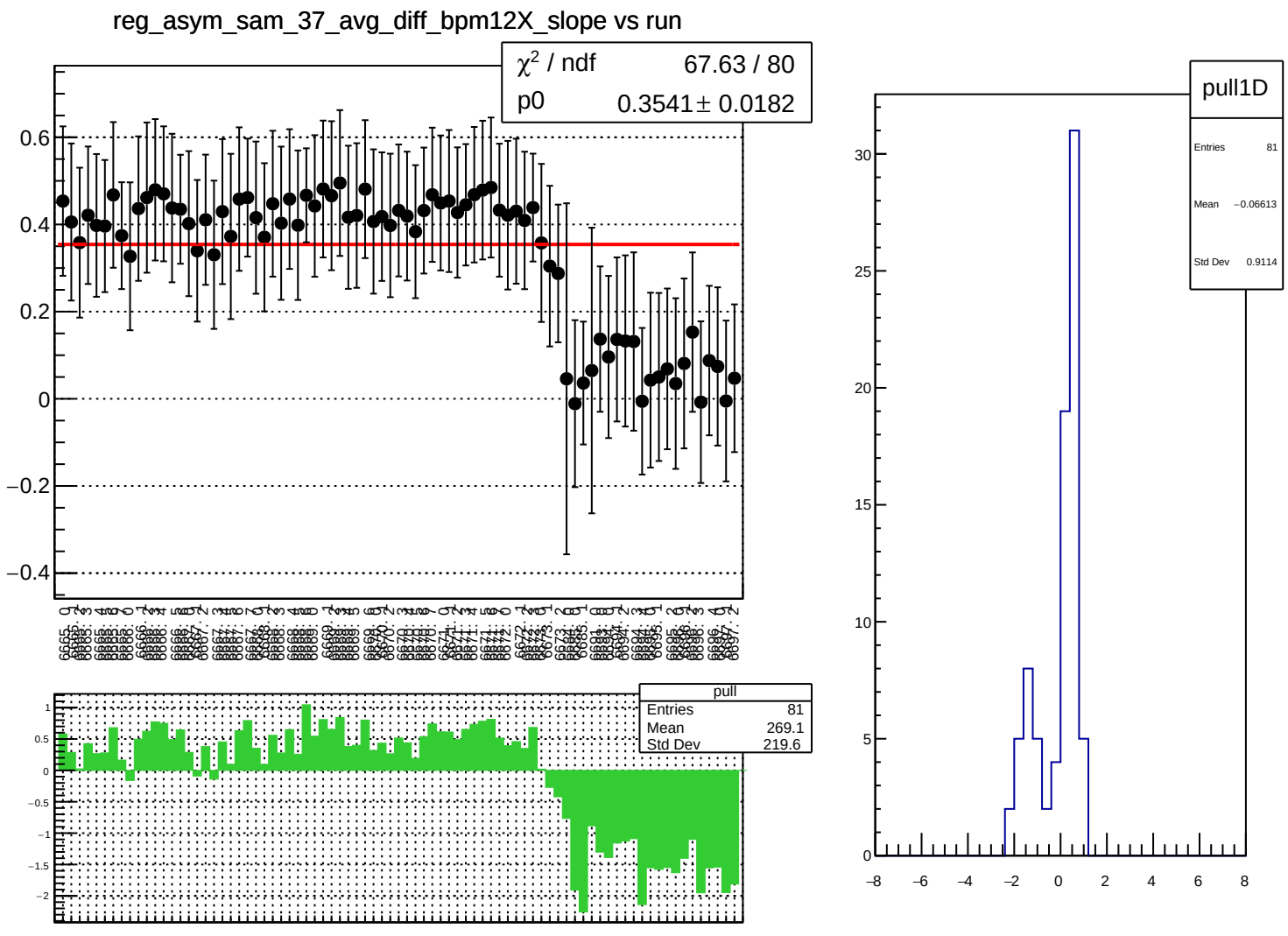

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.49 / 80
p0 1.383 ± 0.3509
pull
Entries 81
Mean 72.46
Std Dev 23.67

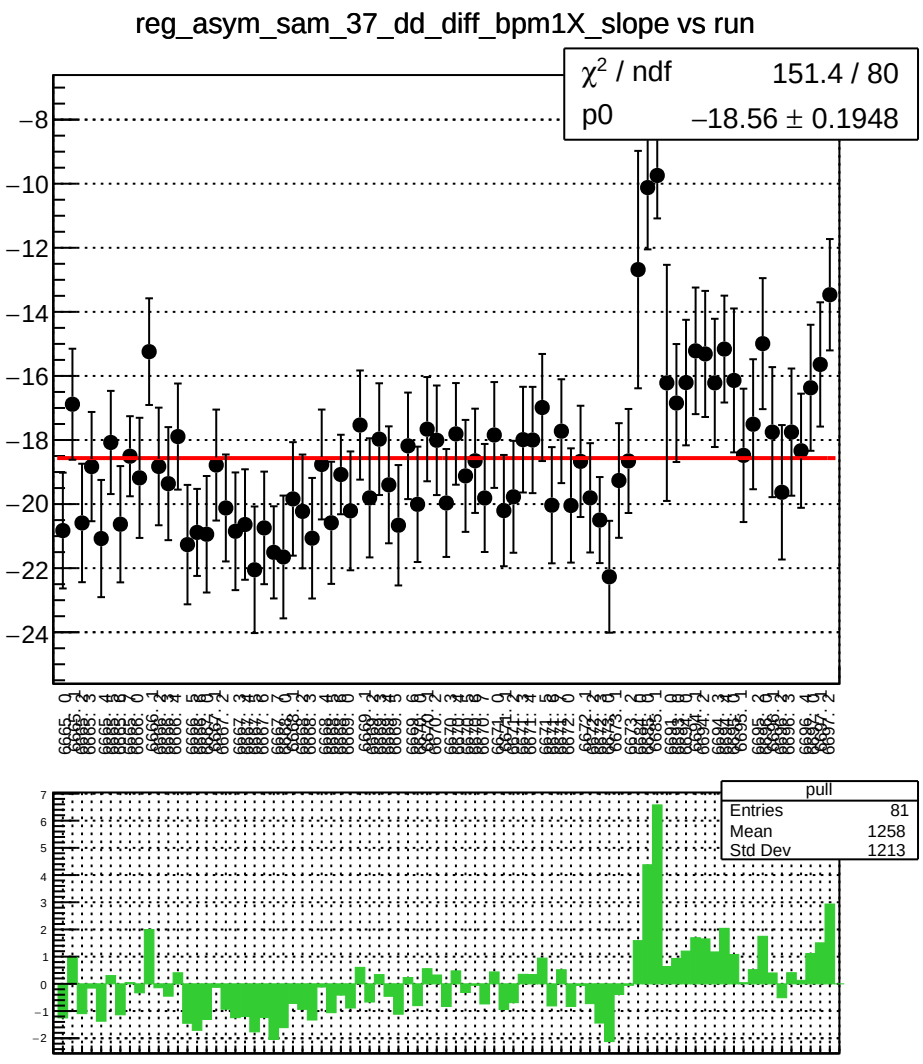

pull1D
Entries 81
Mean 0.08216
Std Dev 0.3997

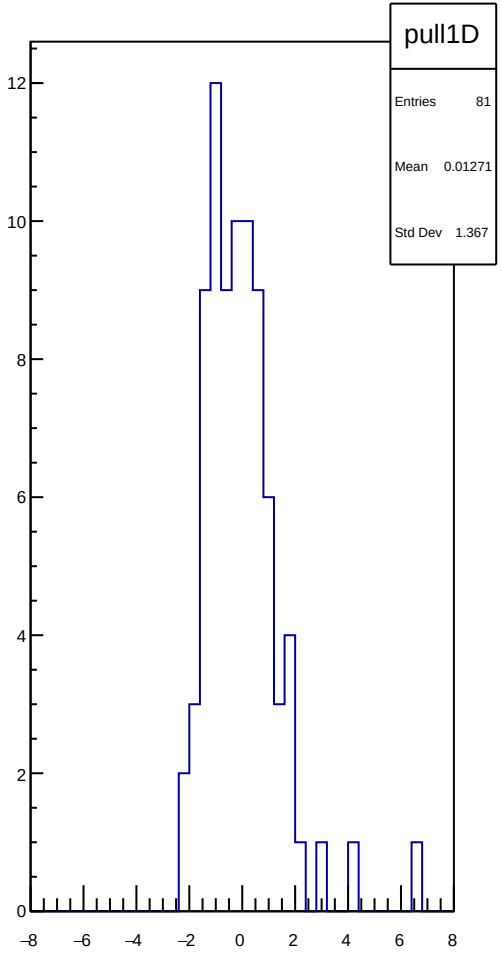

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 79.36 / 80
p0 −50.21 ± 0.4638
pull
Entries 81
Mean 298.2
Std Dev 248.3

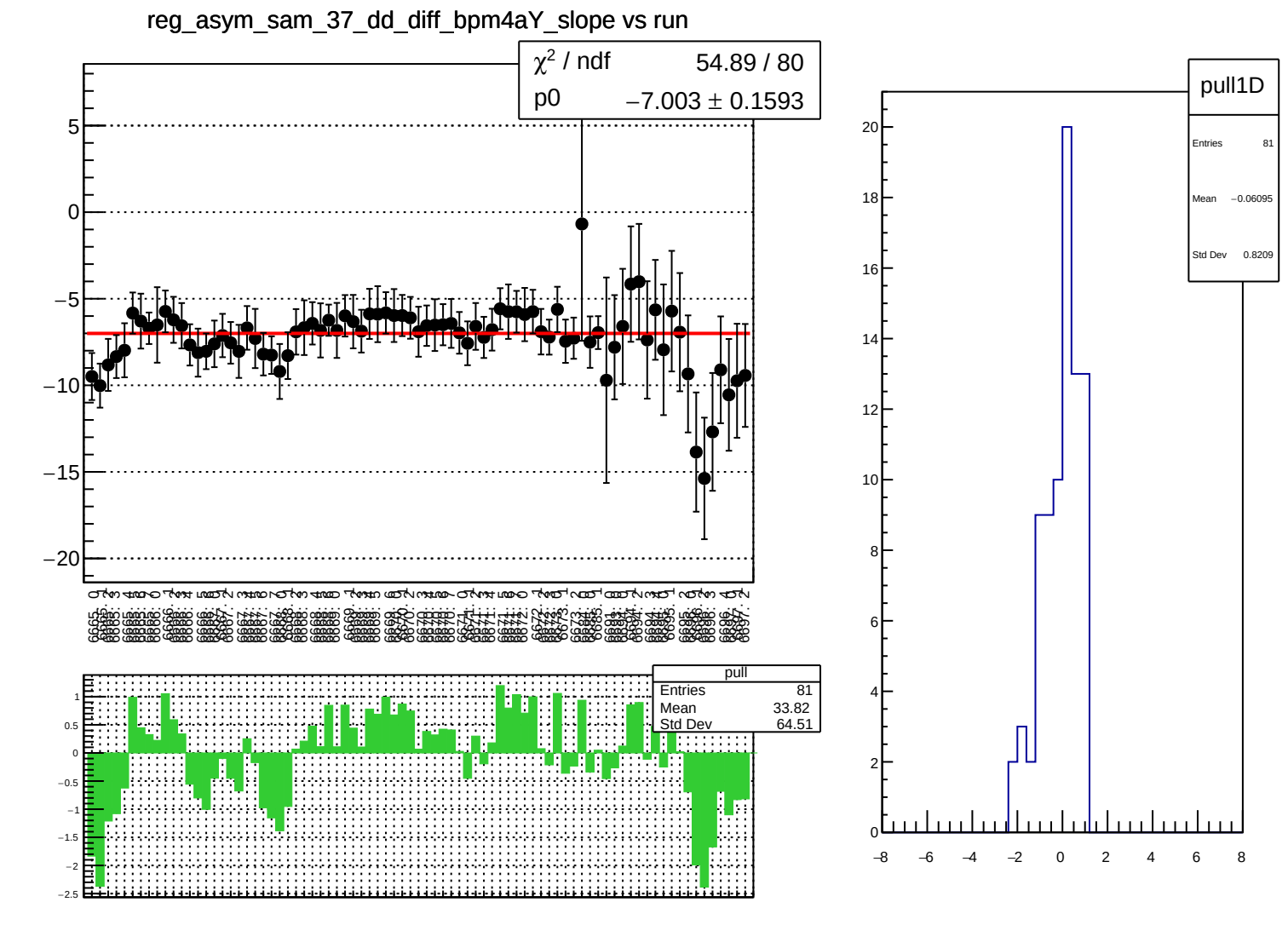

pull1D
Entries 81
Mean −0.05103
Std Dev 0.9885

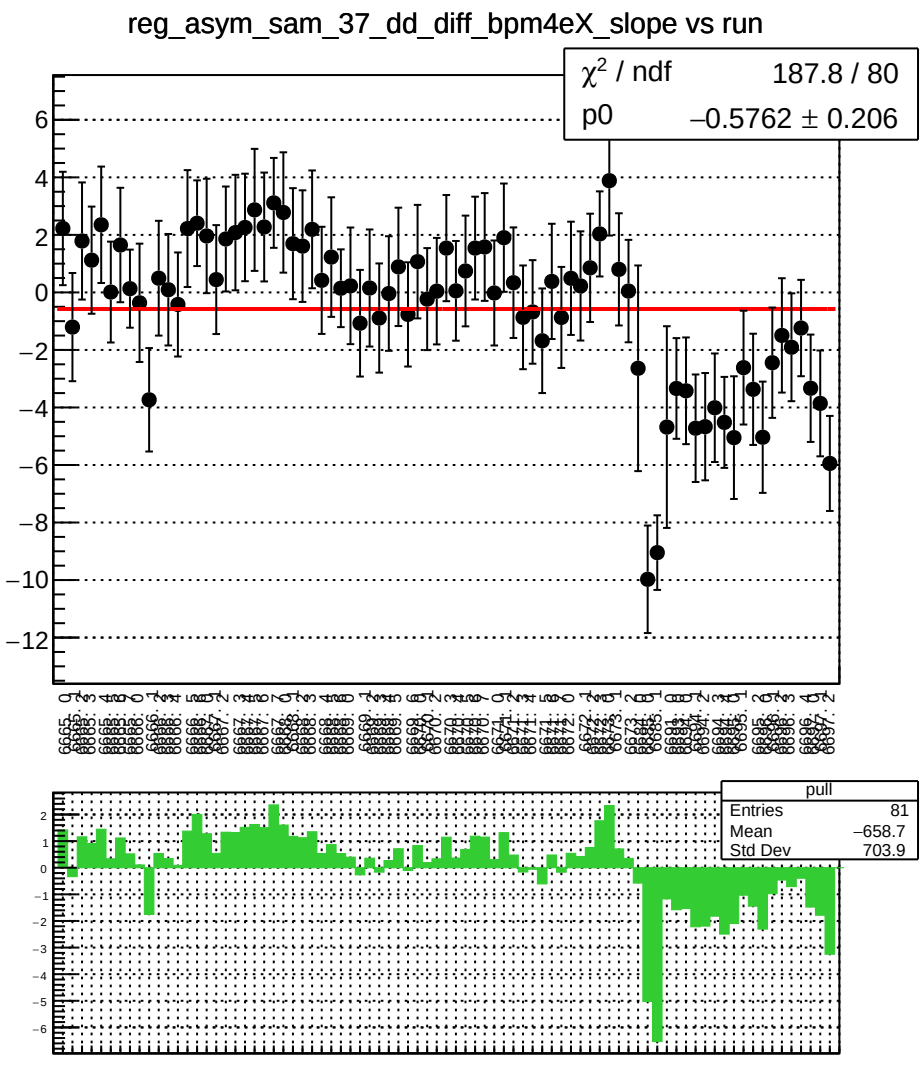

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.22 / 80
p0 6.627 ± 0.4053
pull
Entries 81
Mean 62.7
Std Dev 36.76
pull1D
Entries 81
Mean −0.05515
Std Dev 0.4001

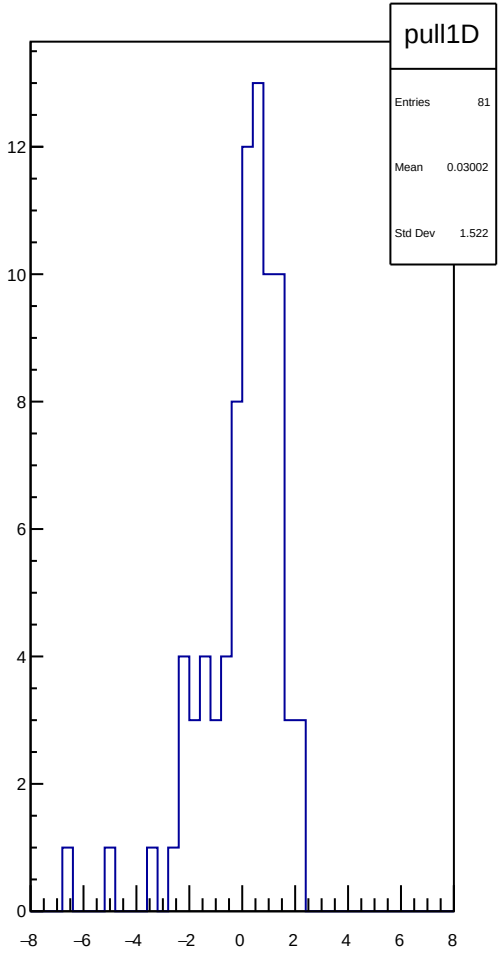

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 67.63 / 80
p0 0.3541 ± 0.0182
pull
Entries 81
Mean 269.1
Std Dev 219.6
pull1D
Entries 81
Mean −0.06613
Std Dev 0.9114

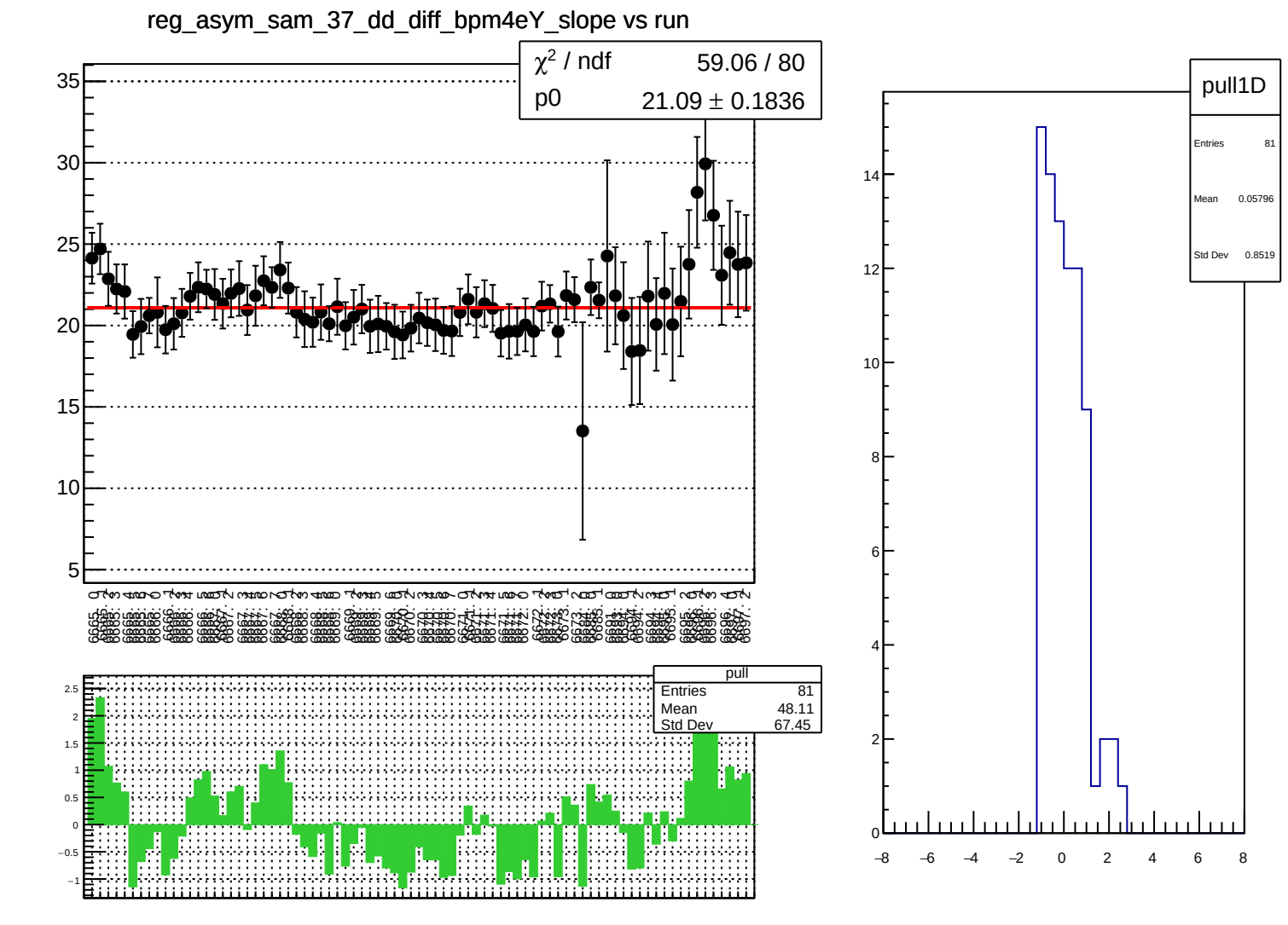

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 151.4 / 80
p0 −18.56 ± 0.1948
pull
Entries 81
Mean 1258
Std Dev 1213

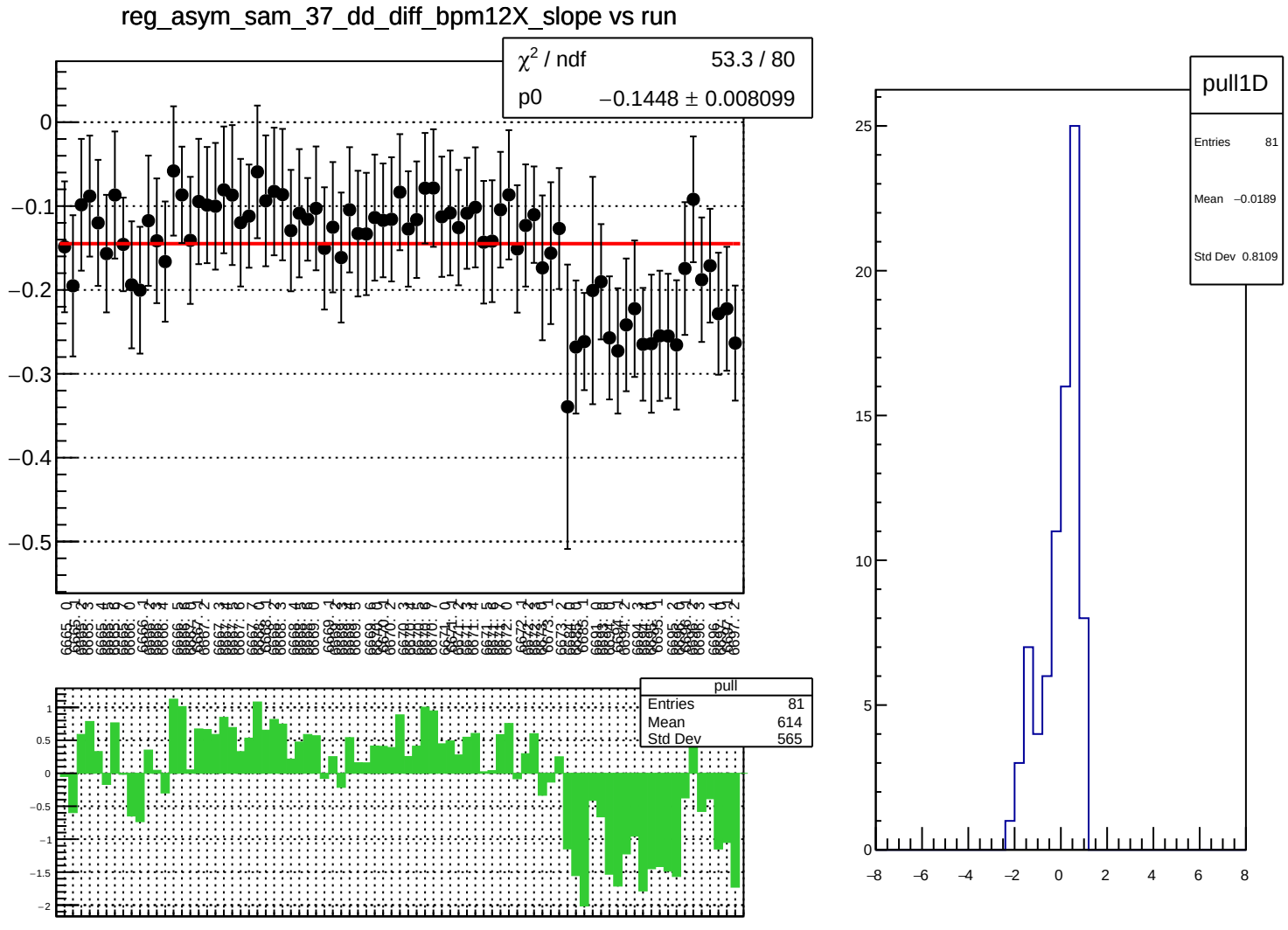

pull1D
Entries 81
Mean 0.01271
Std Dev 1.367

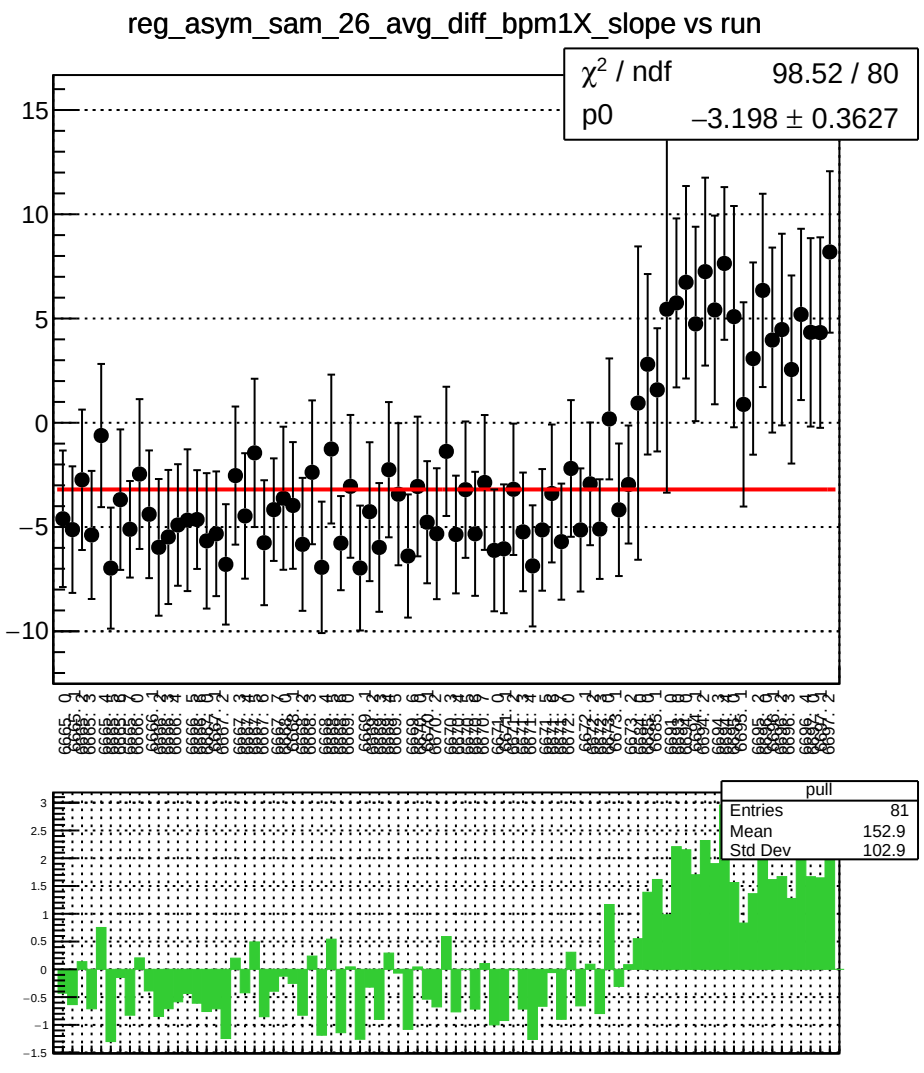

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.89 / 80
p0 −7.003 ± 0.1593
pull
Entries 81
Mean 33.82
Std Dev 64.51
pull1D
Entries 81
Mean −0.06095
Std Dev 0.8209

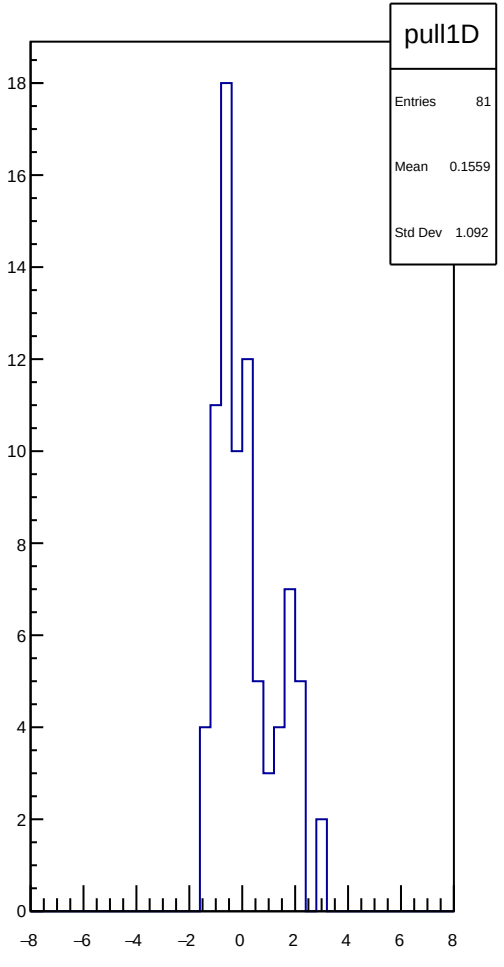

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 187.8 / 80
p0 −0.5762 ± 0.206
pull
Entries 81
Mean −658.7
Std Dev 703.9

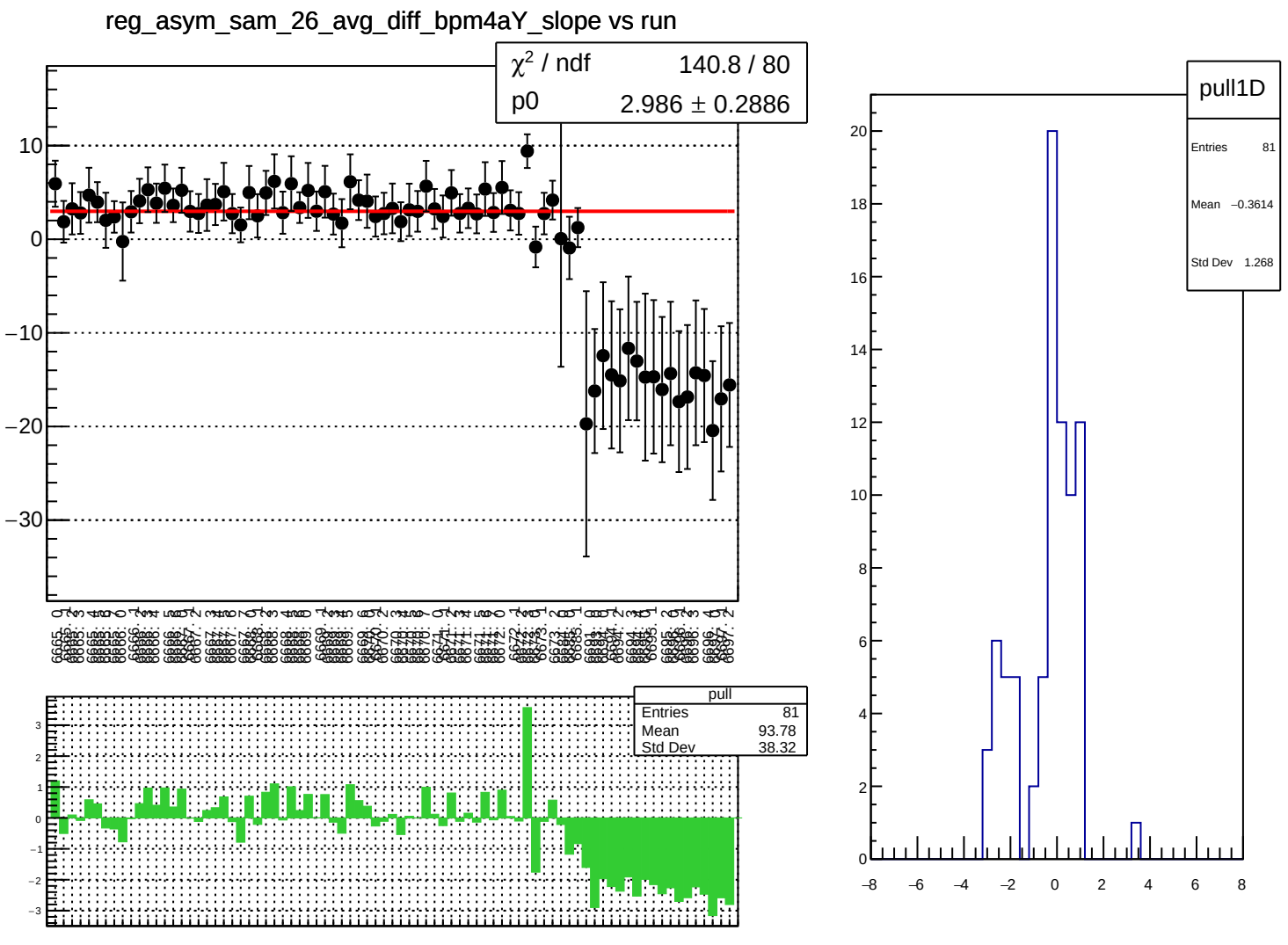

pull1D
Entries 81
Mean 0.03002
Std Dev 1.522

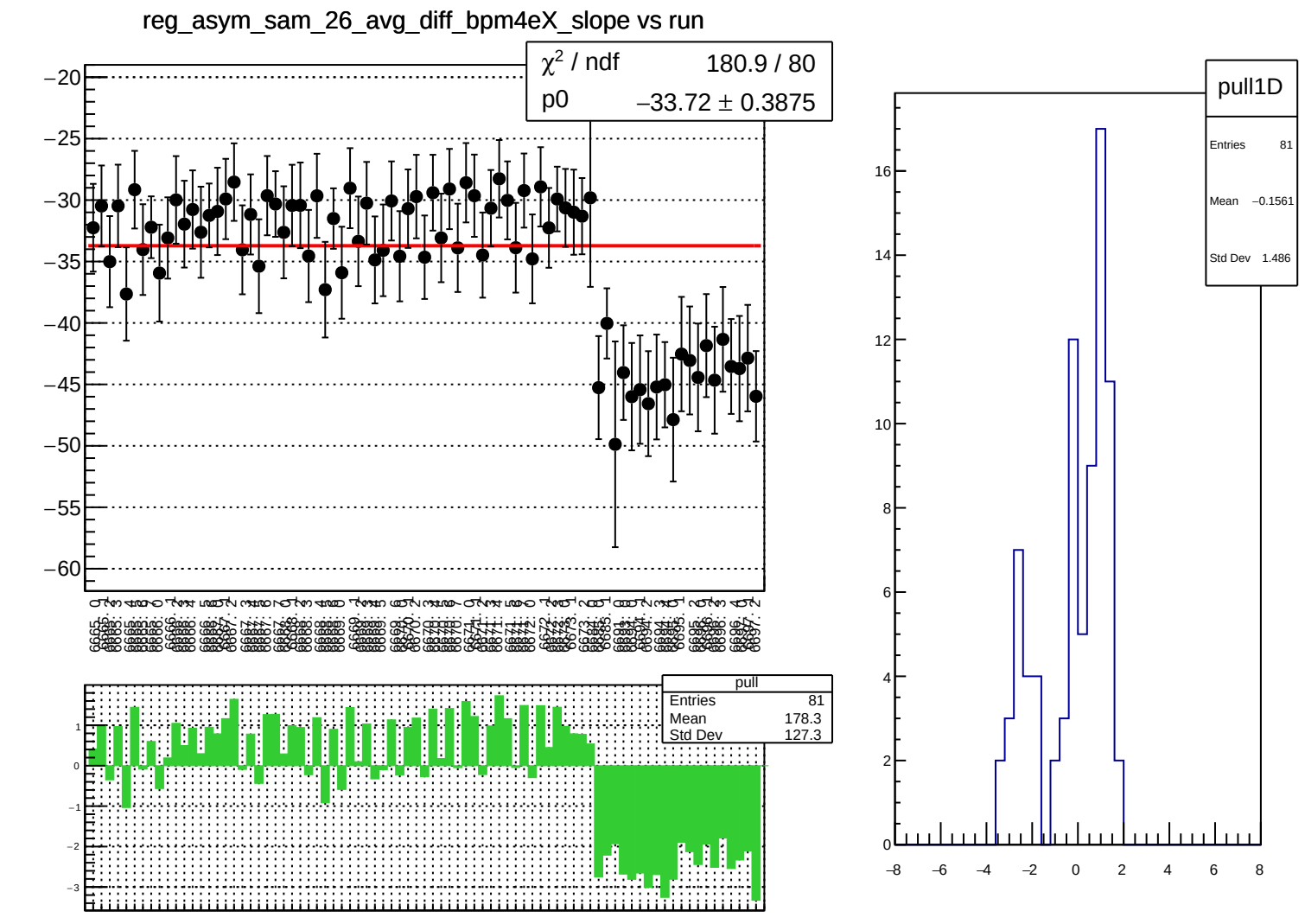

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.06 / 80
p0 21.09 ± 0.1836
pull
Entries 81
Mean 48.11
Std Dev 67.45
pull1D
Entries 81
Mean 0.05796
Std Dev 0.8519

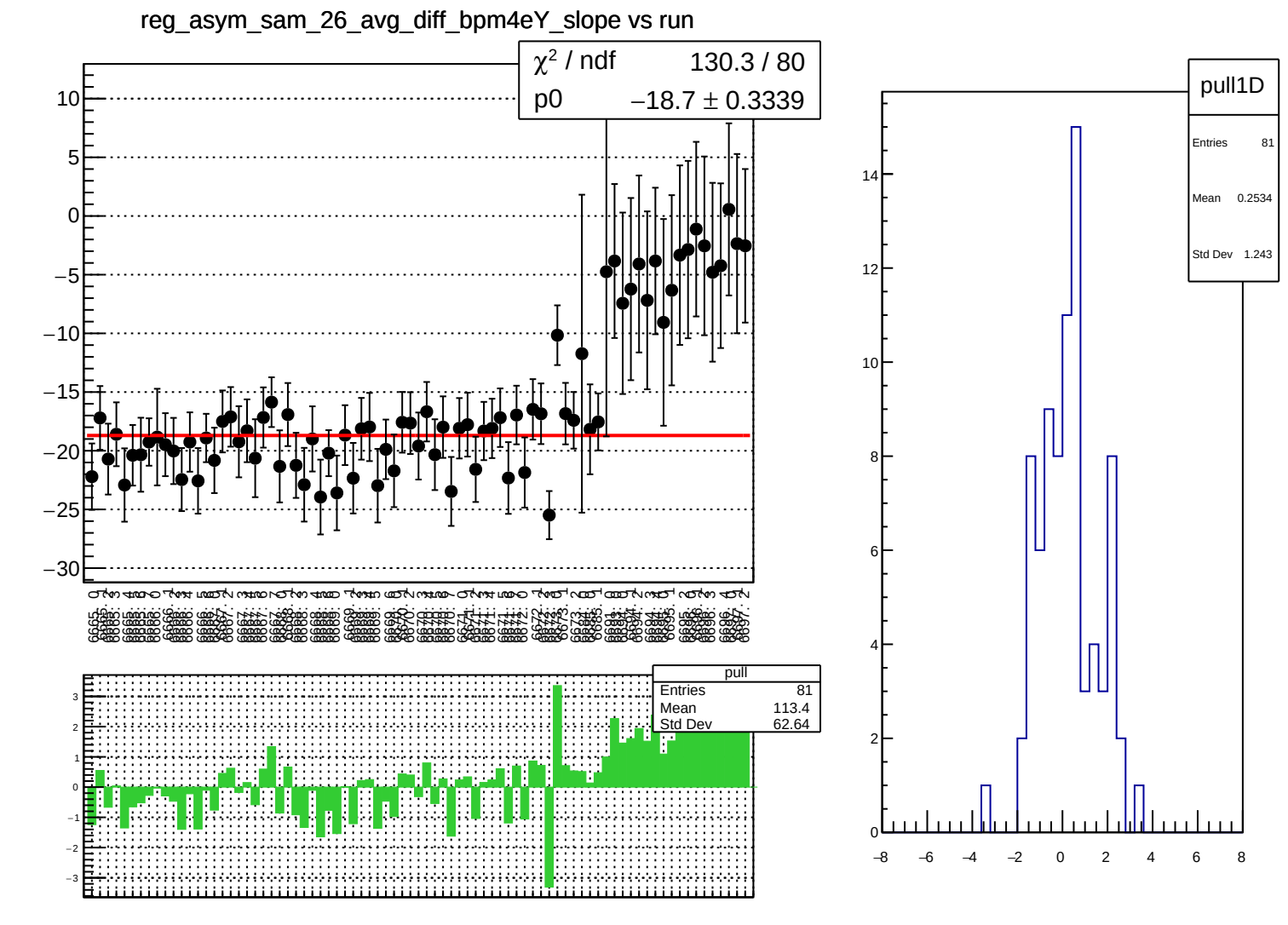

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 53.3 / 80
p0 −0.1448 ± 0.008099
pull
Entries 81
Mean 614
Std Dev 565
pull1D
Entries 81
Mean −0.0189
Std Dev 0.8109

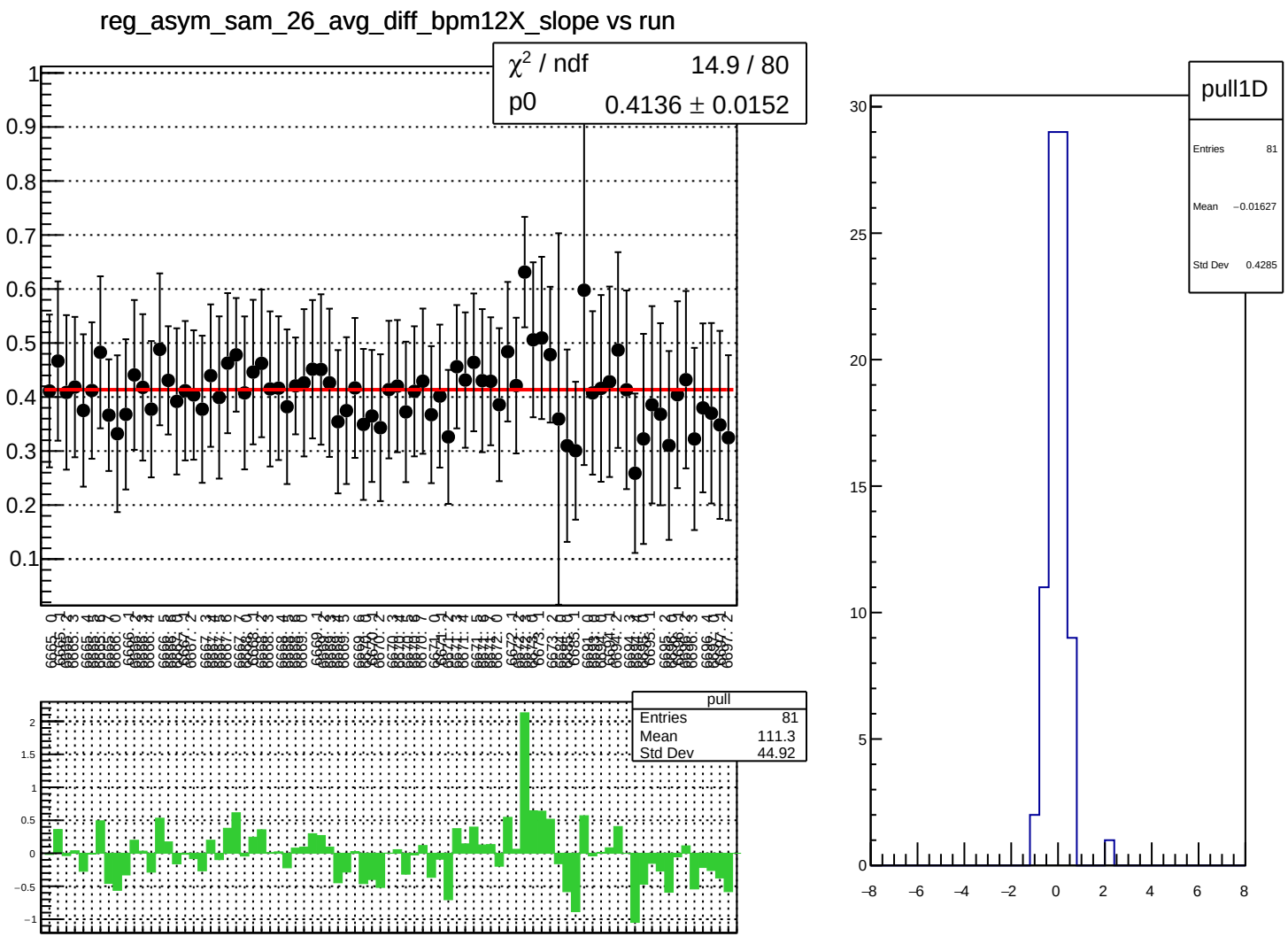

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 98.52 / 80
p0 −3.198 ± 0.3627
pull
Entries 81
Mean 152.9
Std Dev 102.9

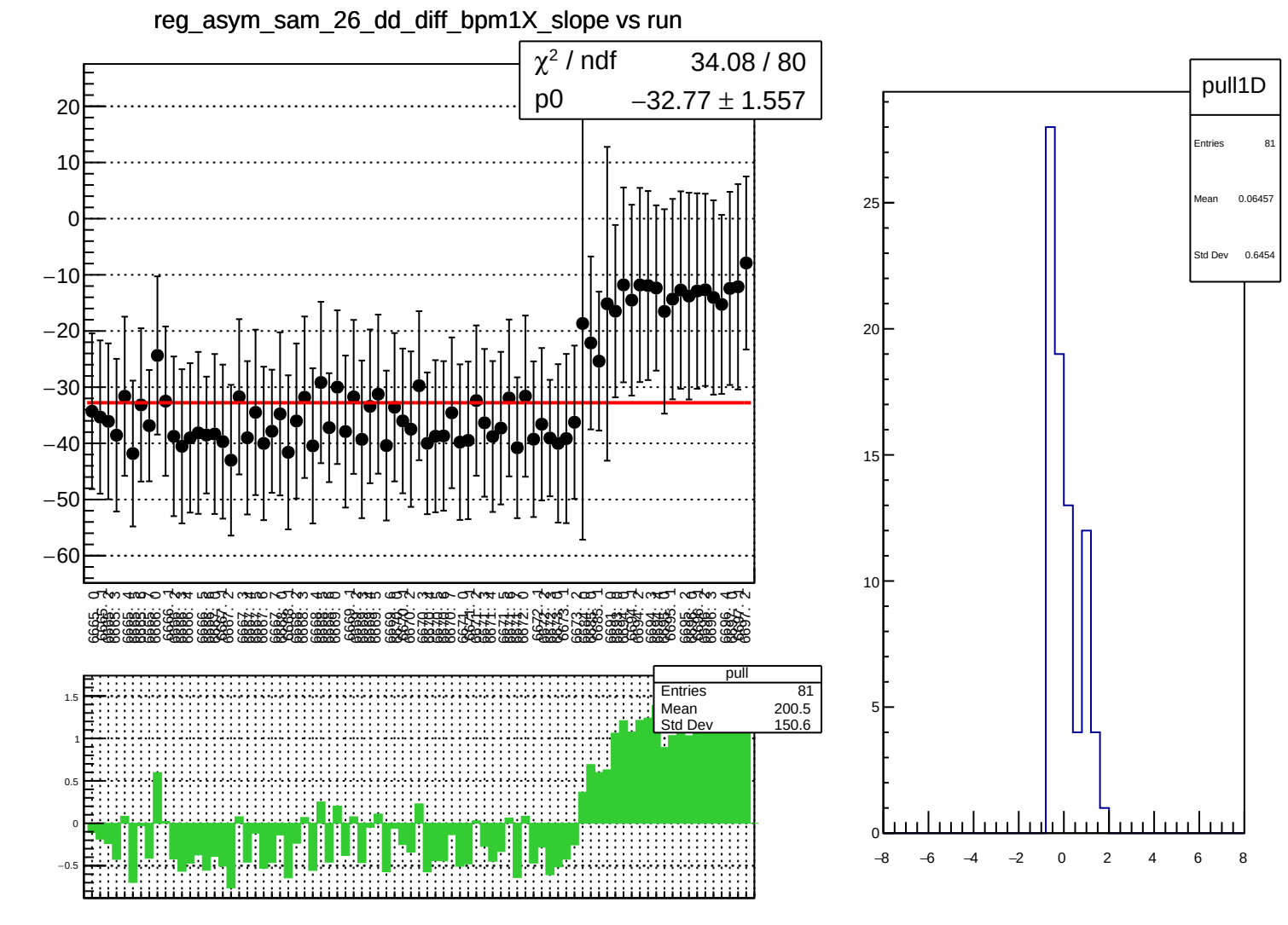

pull1D
Entries 81
Mean 0.1559
Std Dev 1.092

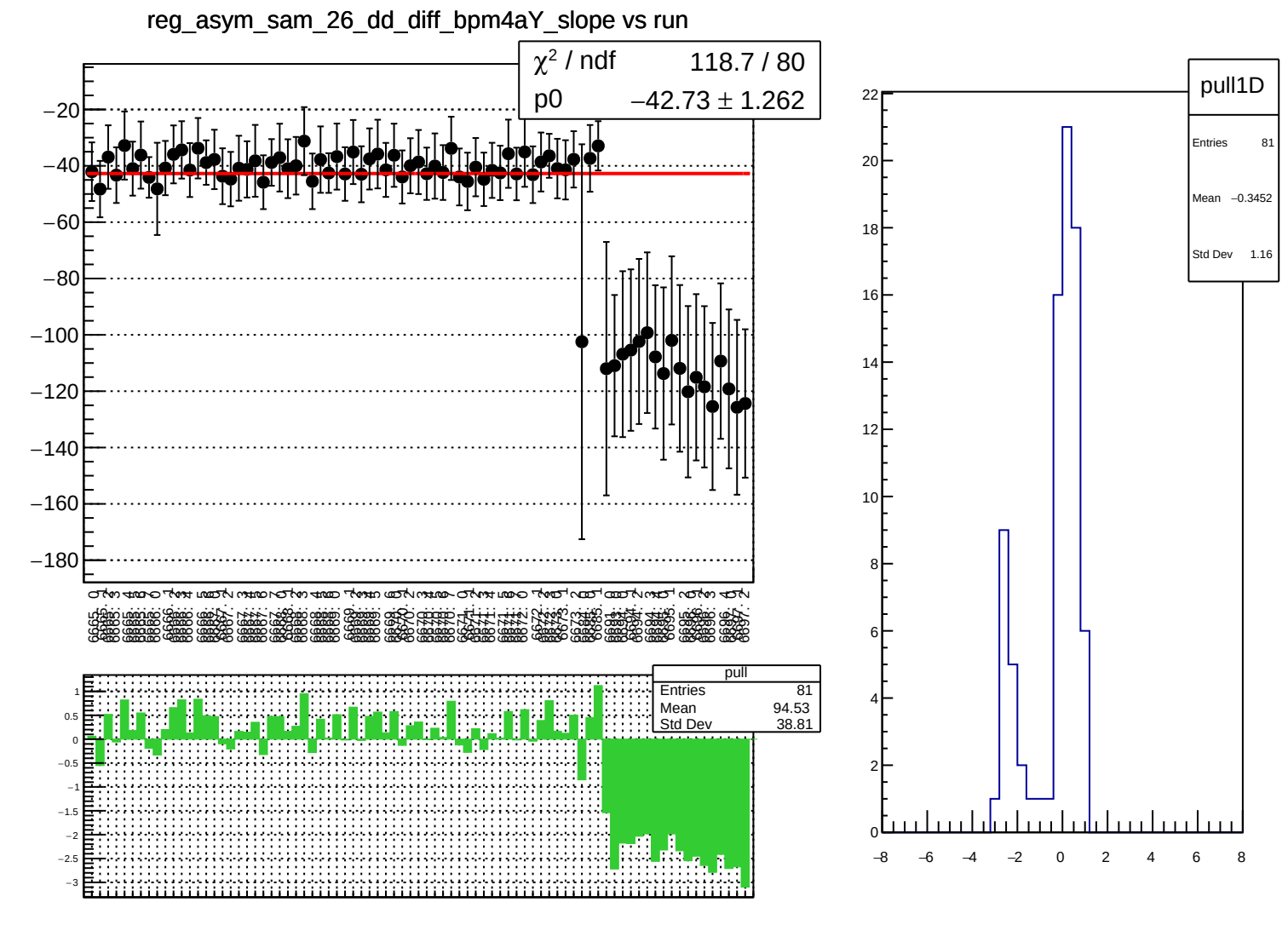

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 140.8 / 80
p0 2.986 ± 0.2886
pull
Entries 81
Mean 93.78
Std Dev 38.32
pull1D
Entries 81
Mean −0.3614
Std Dev 1.268

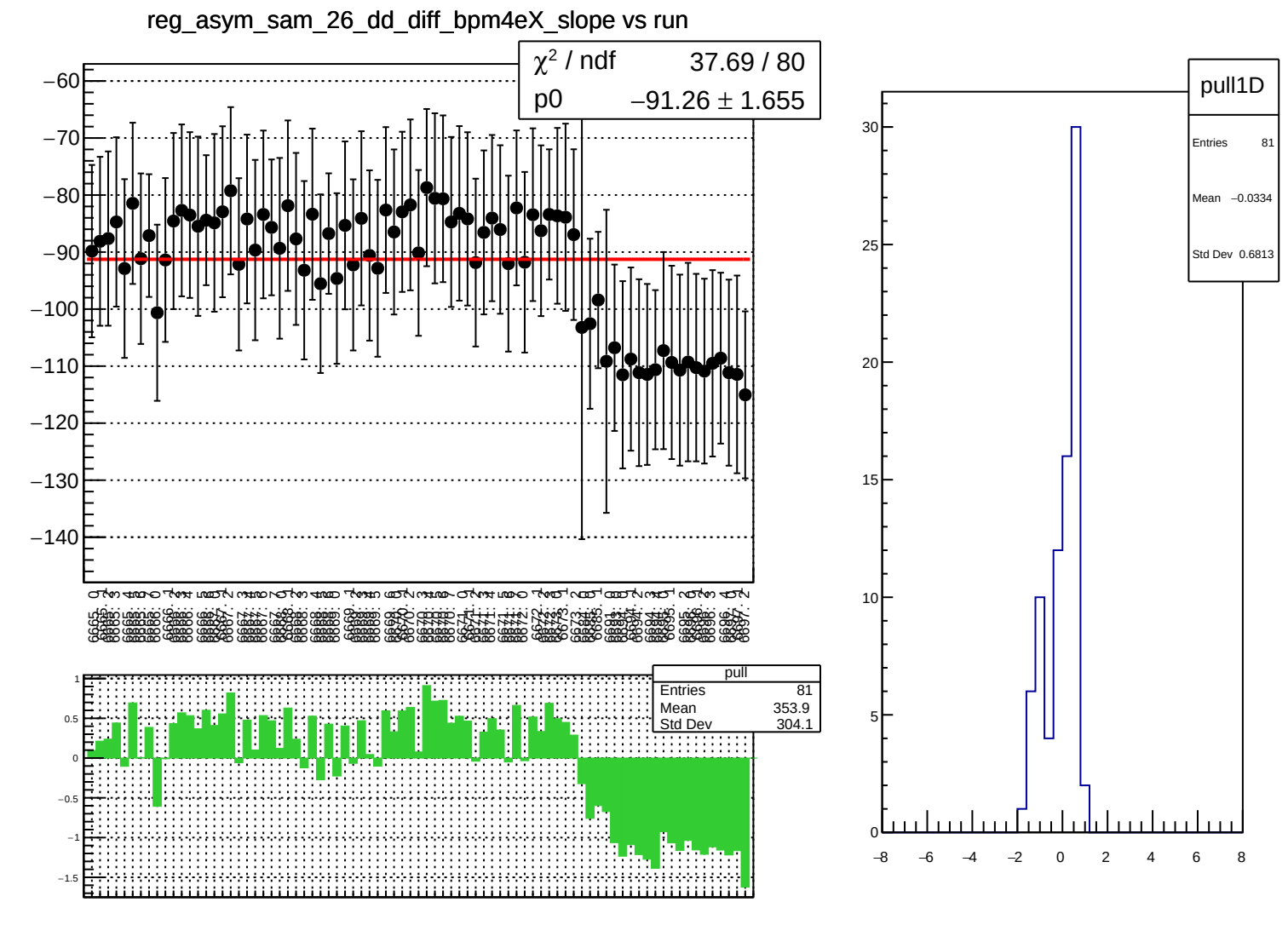

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 180.9 / 80
p0 −33.72 ± 0.3875
pull
Entries 81
Mean 178.3
Std Dev 127.3
pull1D
Entries 81
Mean −0.1561
Std Dev 1.486

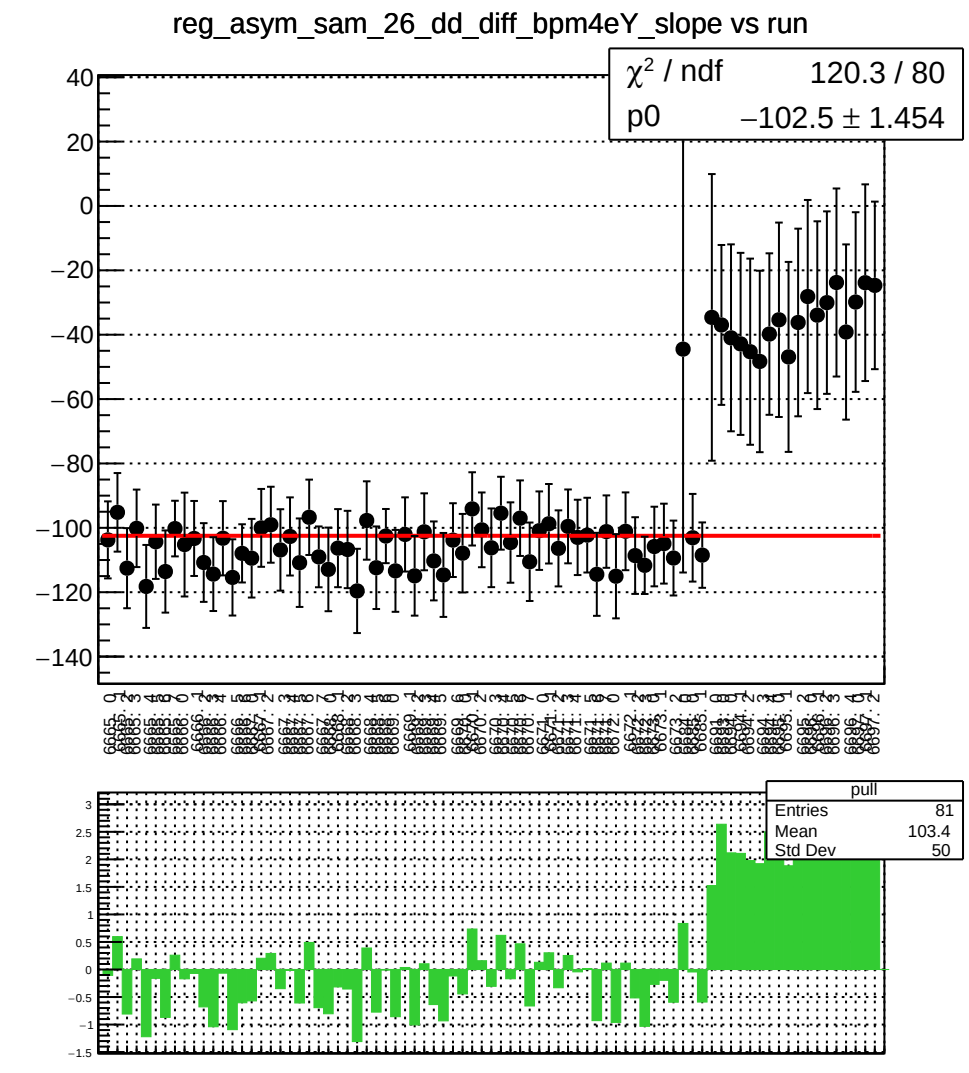

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 130.3 / 80
p0 −18.7 ± 0.3339
pull
Entries 81
Mean 113.4
Std Dev 62.64
pull1D
Entries 81
Mean 0.2534
Std Dev 1.243

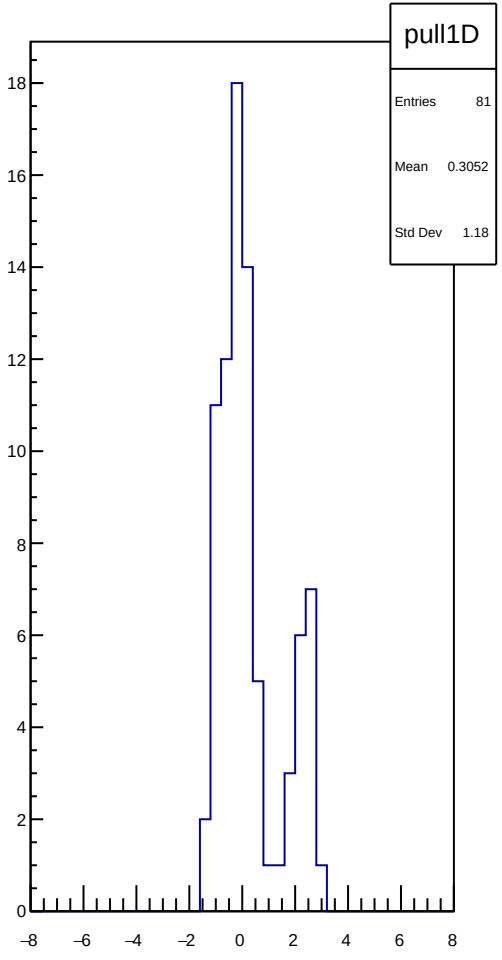

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 14.9 / 80
p0 0.4136 ± 0.0152
pull
Entries 81
Mean 111.3
Std Dev 44.92
pull1D
Entries 81
Mean −0.01627
Std Dev 0.4285

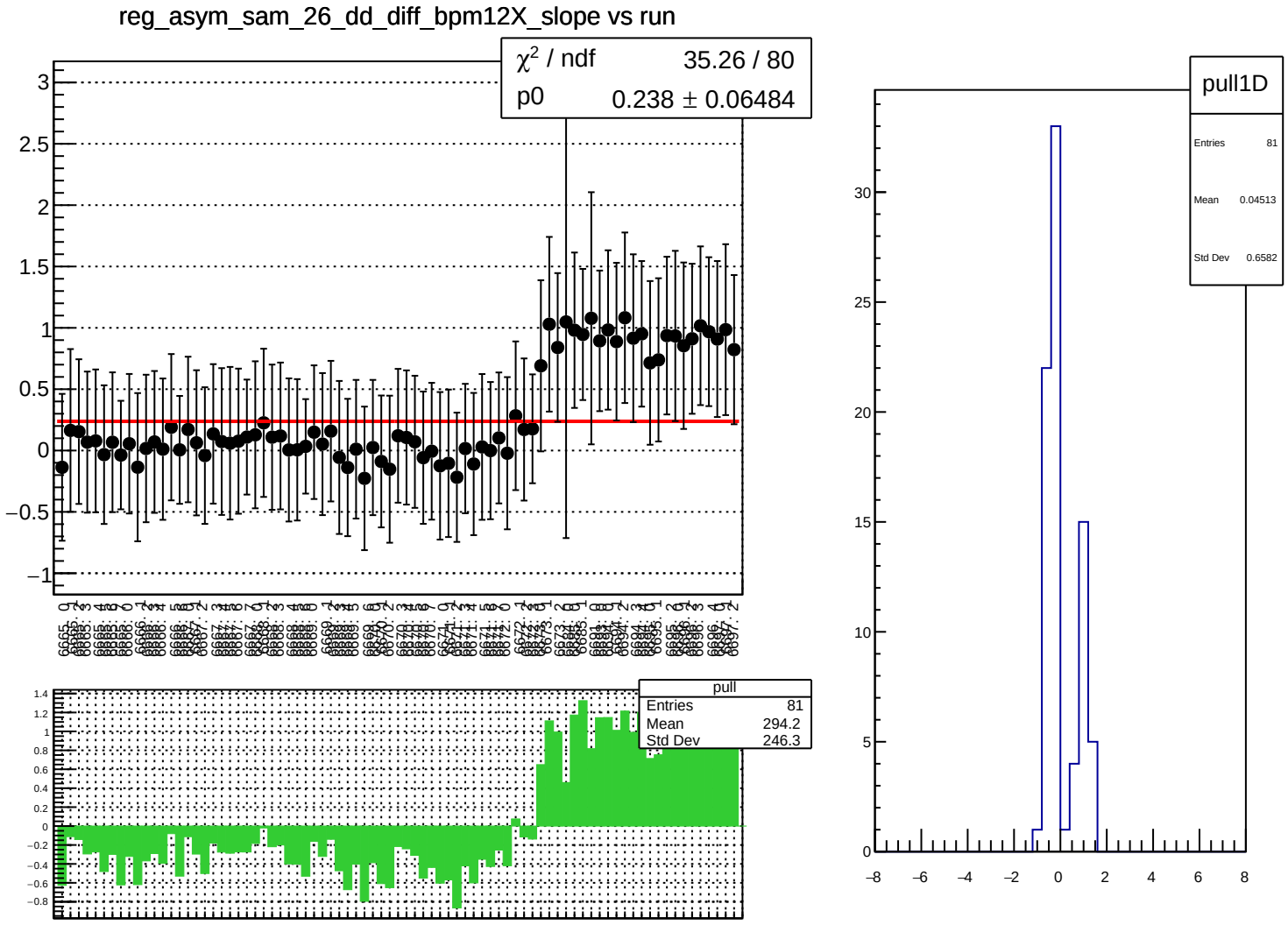

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 34.08 / 80
p0 −32.77 ± 1.557
pull
Entries 81
Mean 200.5
Std Dev 150.6
pull1D
Entries 81
Mean 0.06457
Std Dev 0.6454

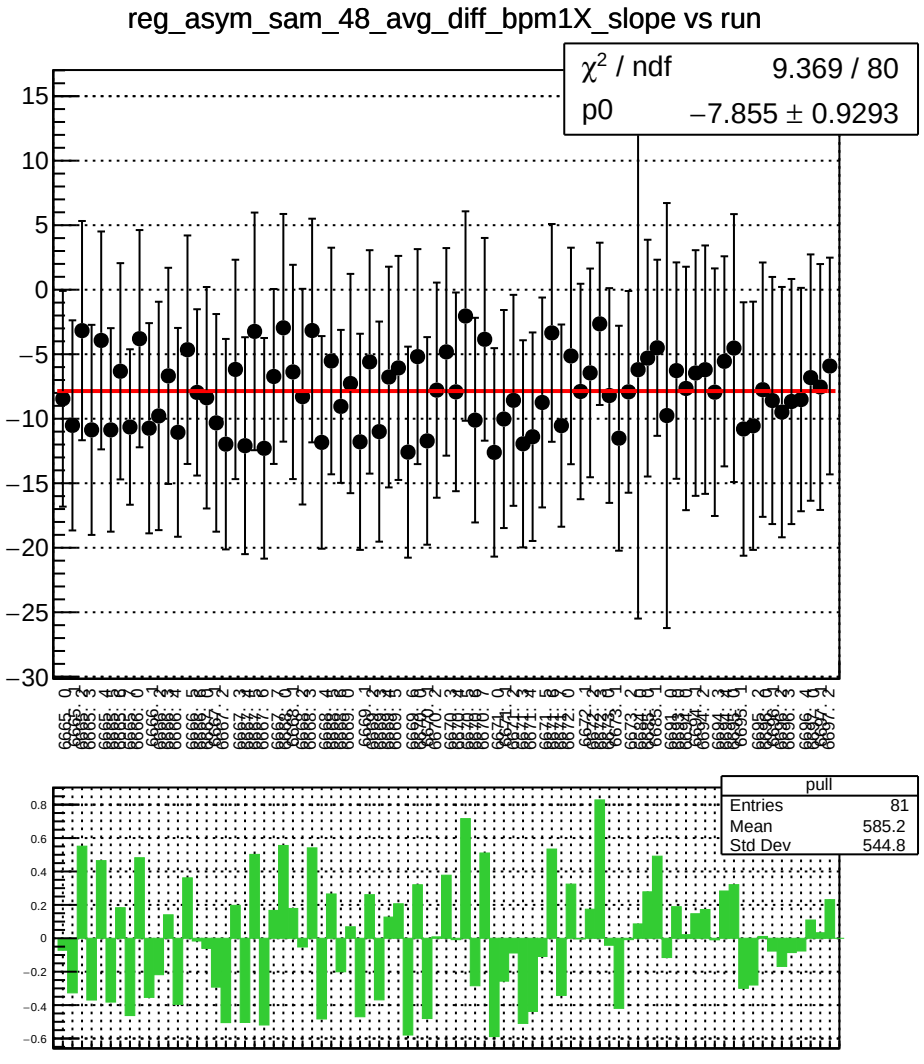

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 118.7 / 80
p0 −42.73 ± 1.262
pull
Entries 81
Mean 94.53
Std Dev 38.81
pull1D
Entries 81
Mean −0.3452
Std Dev 1.16

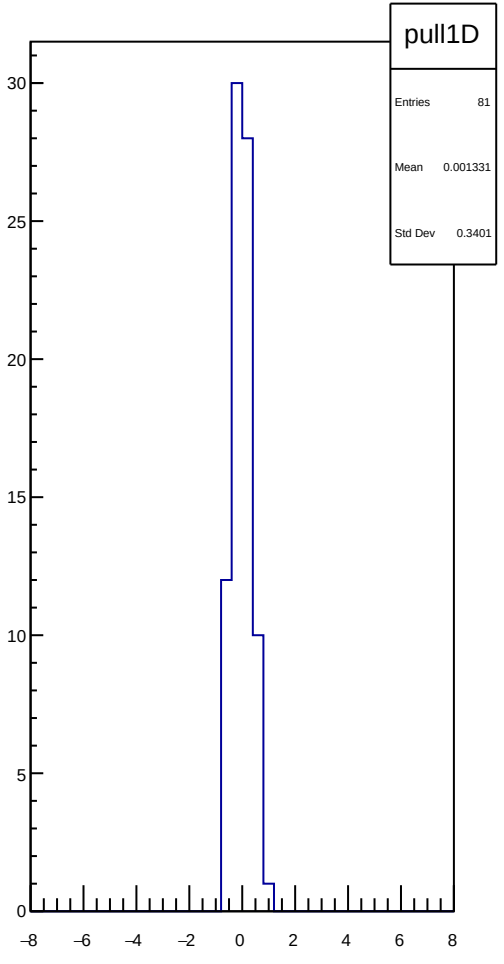

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 37.69 / 80
p0 −91.26 ± 1.655
pull
Entries 81
Mean 353.9
Std Dev 304.1
pull1D
Entries 81
Mean −0.0334
Std Dev 0.6813

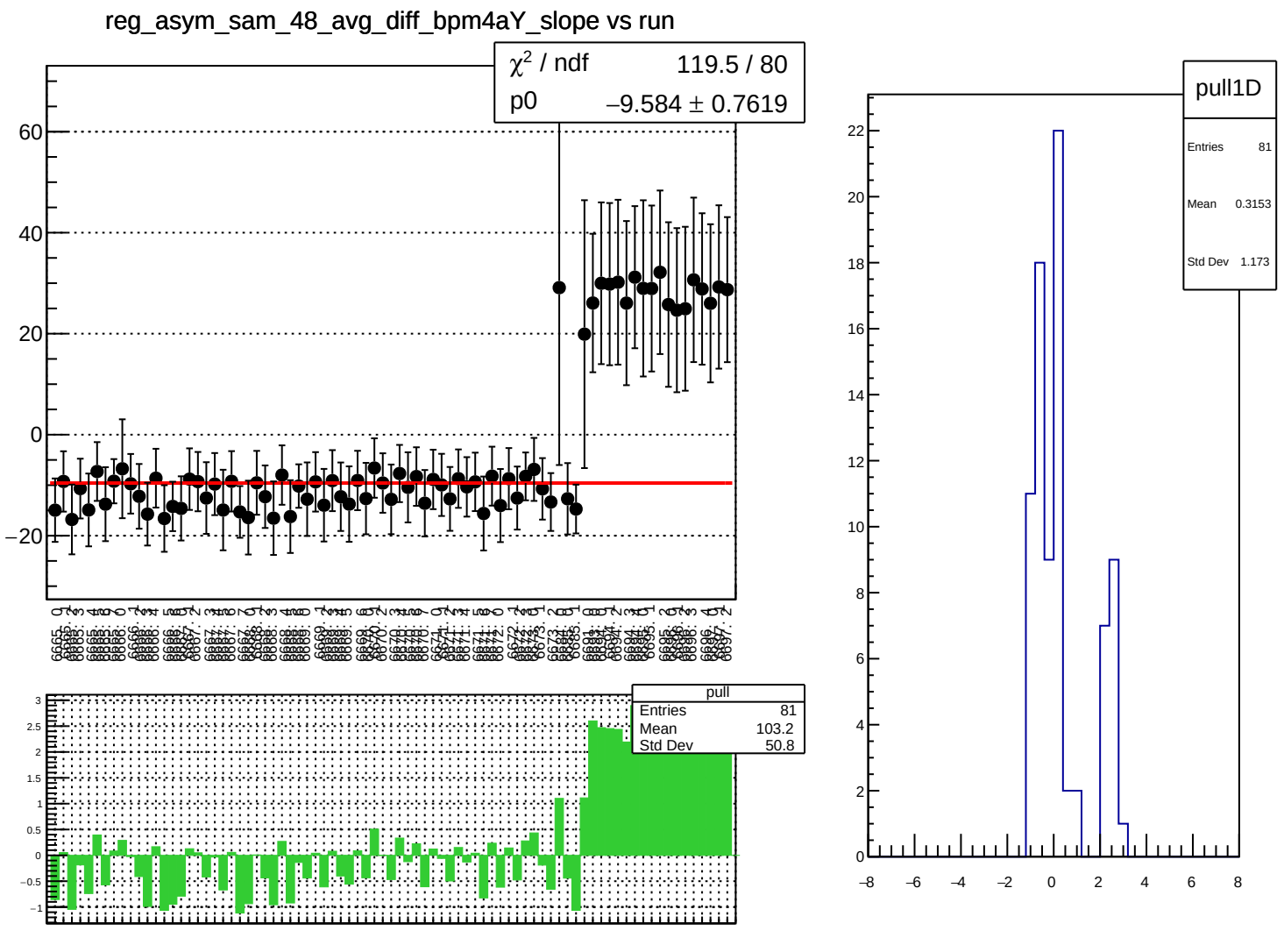

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 120.3 / 80
p0 −102.5 ± 1.454
pull
Entries 81
Mean 103.4
Std Dev 50

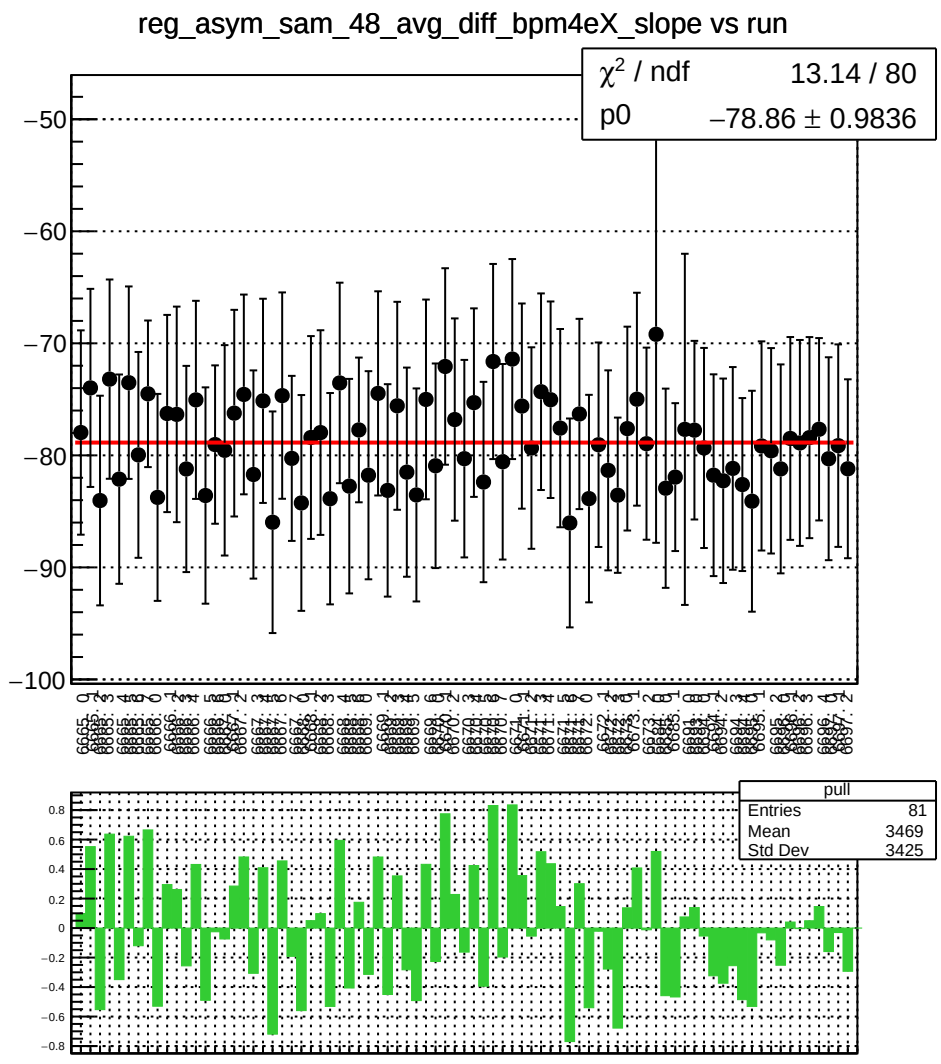

pull1D
Entries 81
Mean 0.3052
Std Dev 1.18

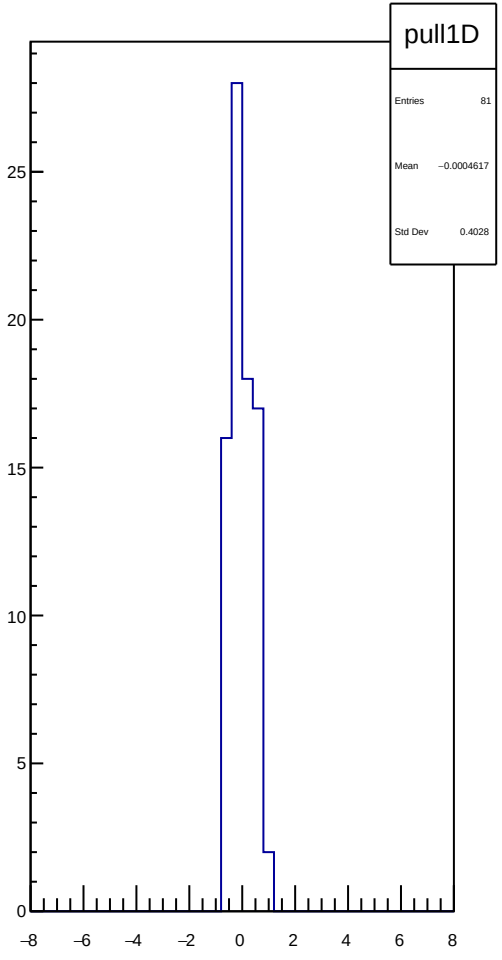

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 35.26 / 80
p0 0.238 ± 0.06484
pull
Entries 81
Mean 294.2
Std Dev 246.3
pull1D
Entries 81
Mean 0.04513
Std Dev 0.6582

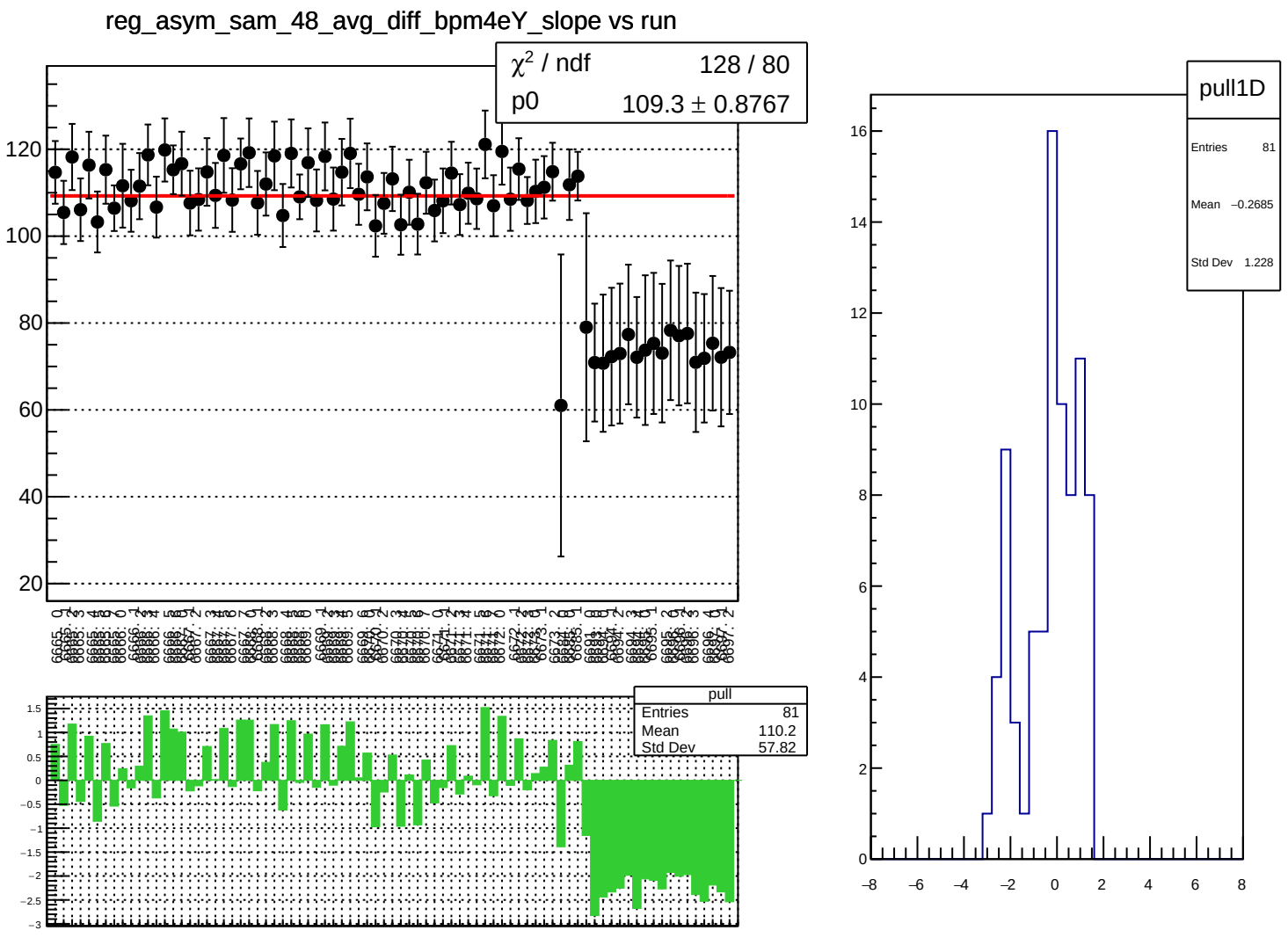

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 9.369 / 80
p0 −7.855 ± 0.9293
pull
Entries 81
Mean 585.2
Std Dev 544.8

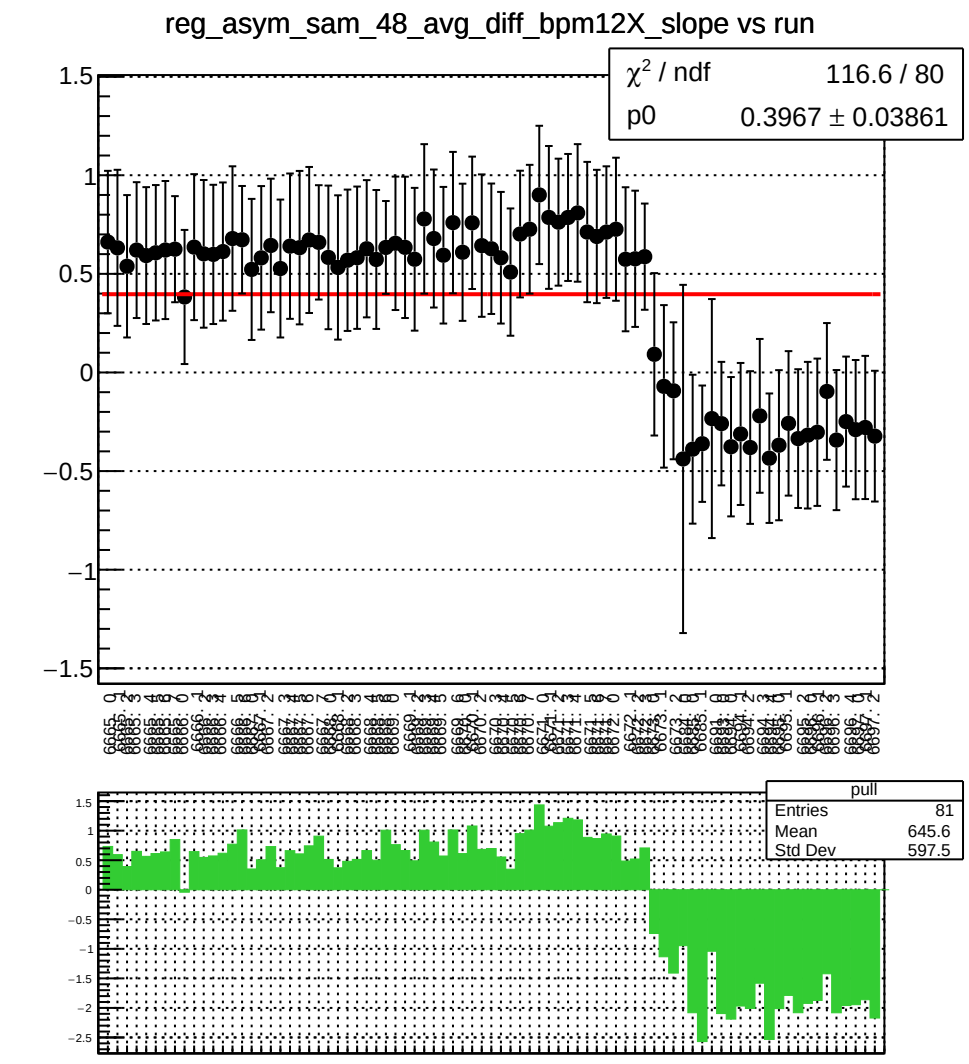

pull1D
Entries 81
Mean 0.001331
Std Dev 0.3401

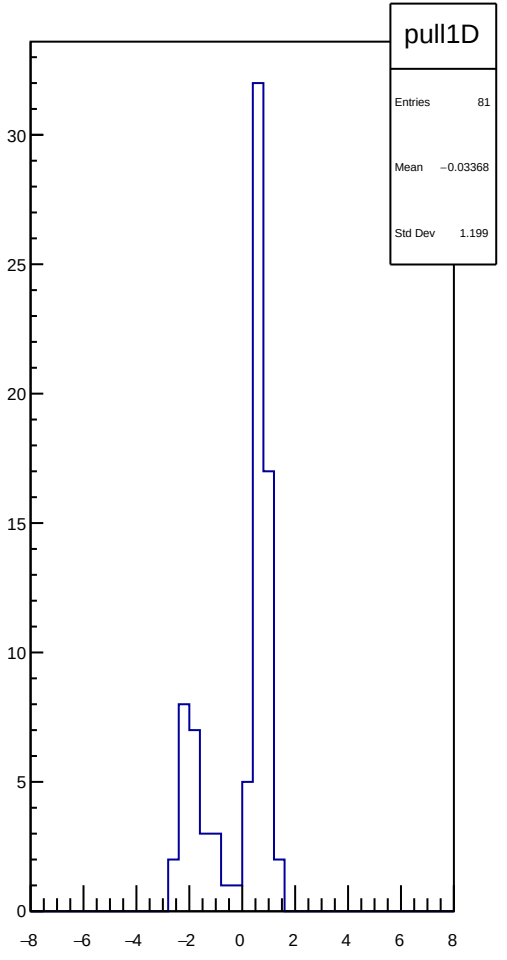

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 119.5 / 80
p0 −9.584 ± 0.7619
pull
Entries 81
Mean 103.2
Std Dev 50.8
pull1D
Entries 81
Mean 0.3153
Std Dev 1.173

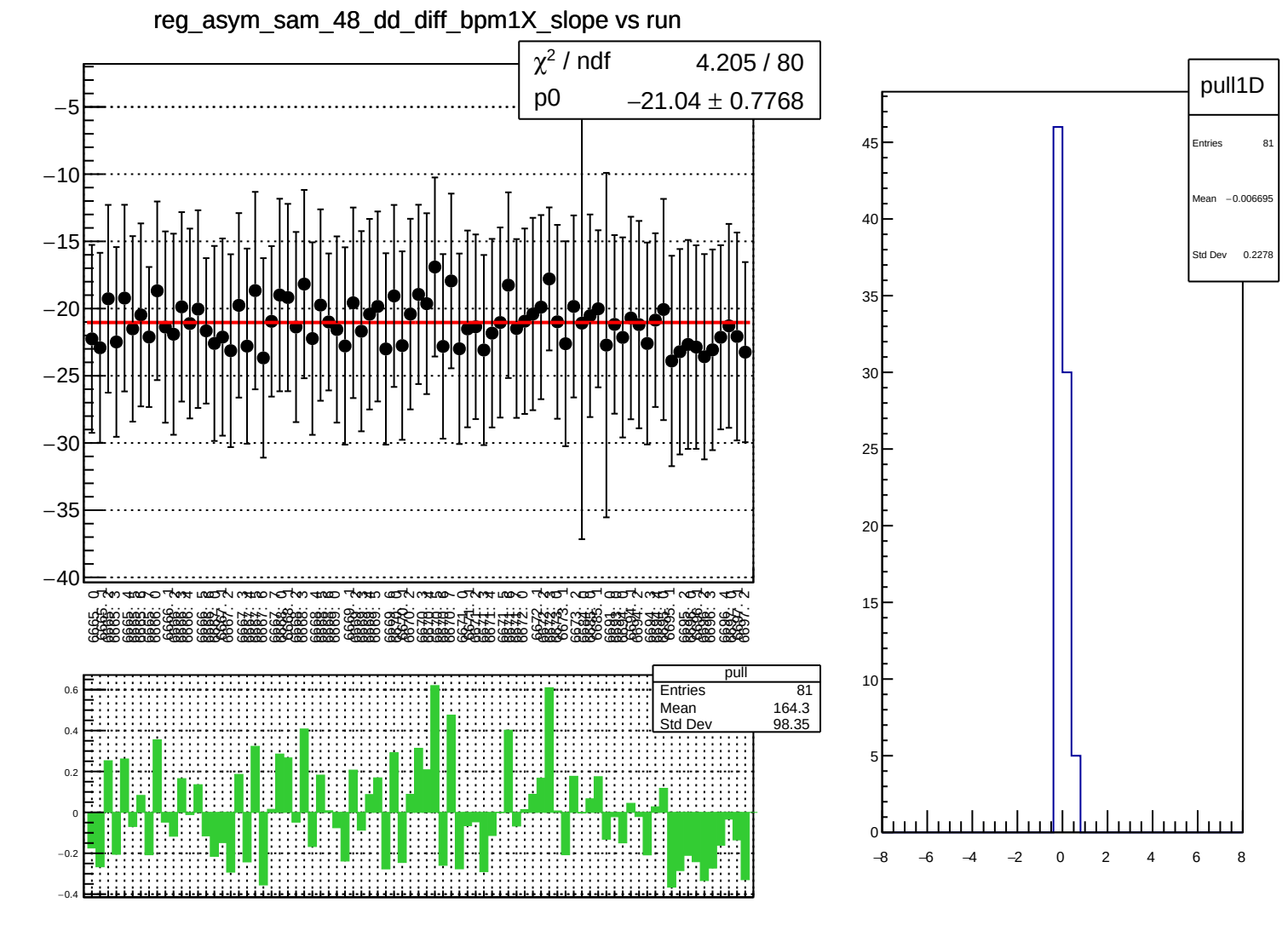

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 13.14 / 80
p0 −78.86 ± 0.9836
pull
Entries 81
Mean 3469
Std Dev 3425

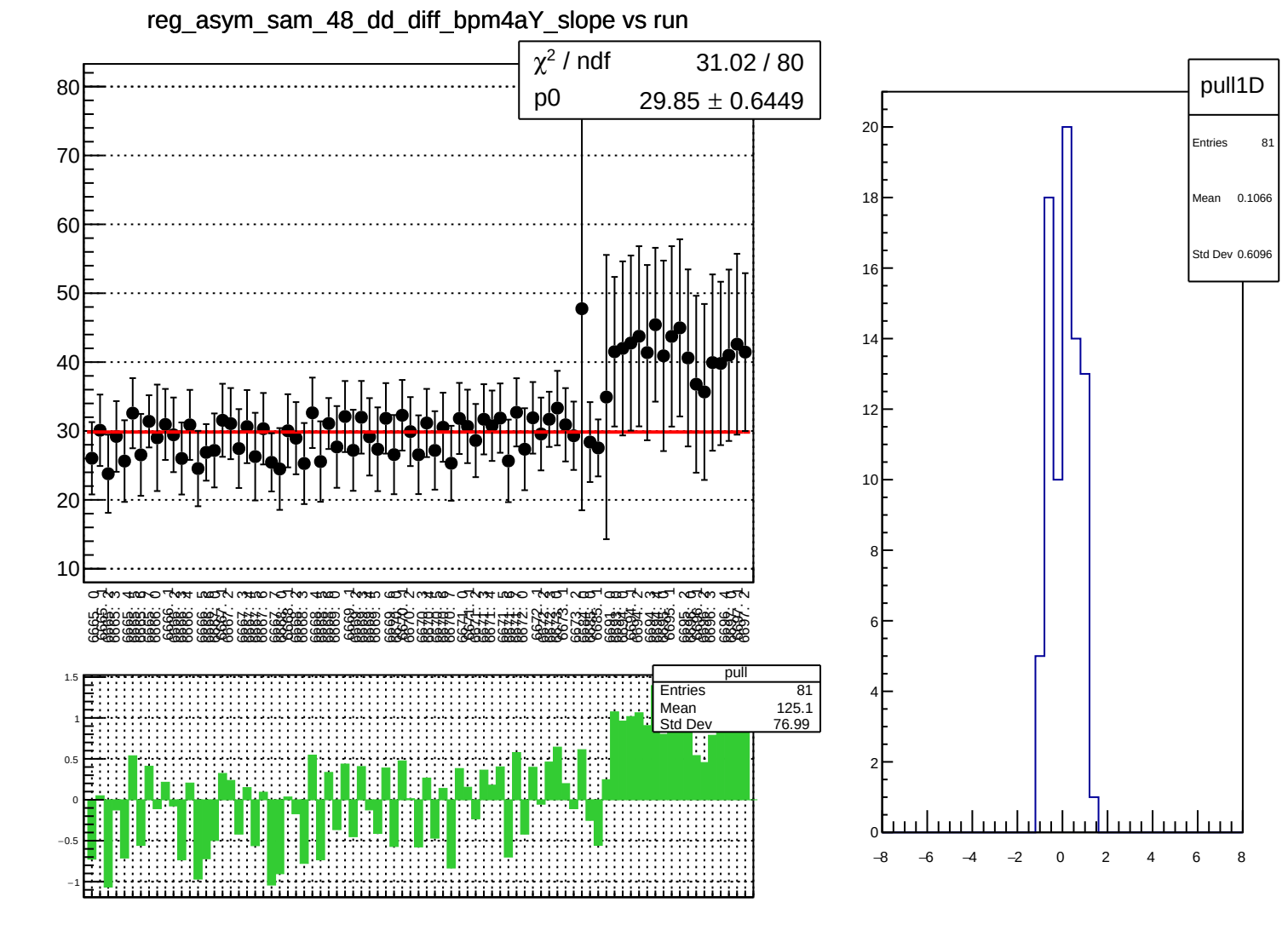

pull1D
Entries 81
Mean −0.0004617
Std Dev 0.4028

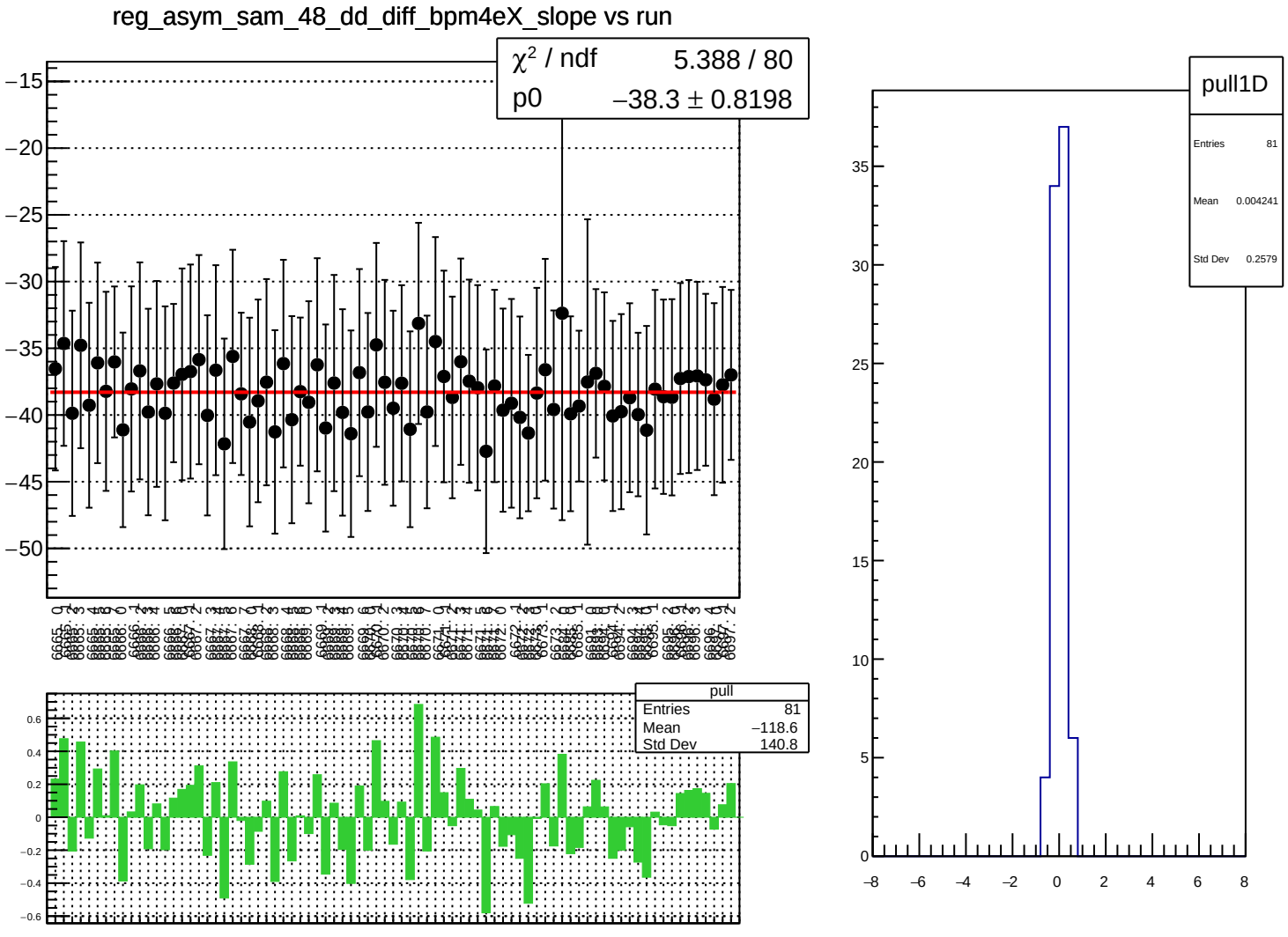

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 128 / 80
p0 109.3 ± 0.8767
pull
Entries 81
Mean 110.2
Std Dev 57.82
pull1D
Entries 81
Mean −0.2685
Std Dev 1.228

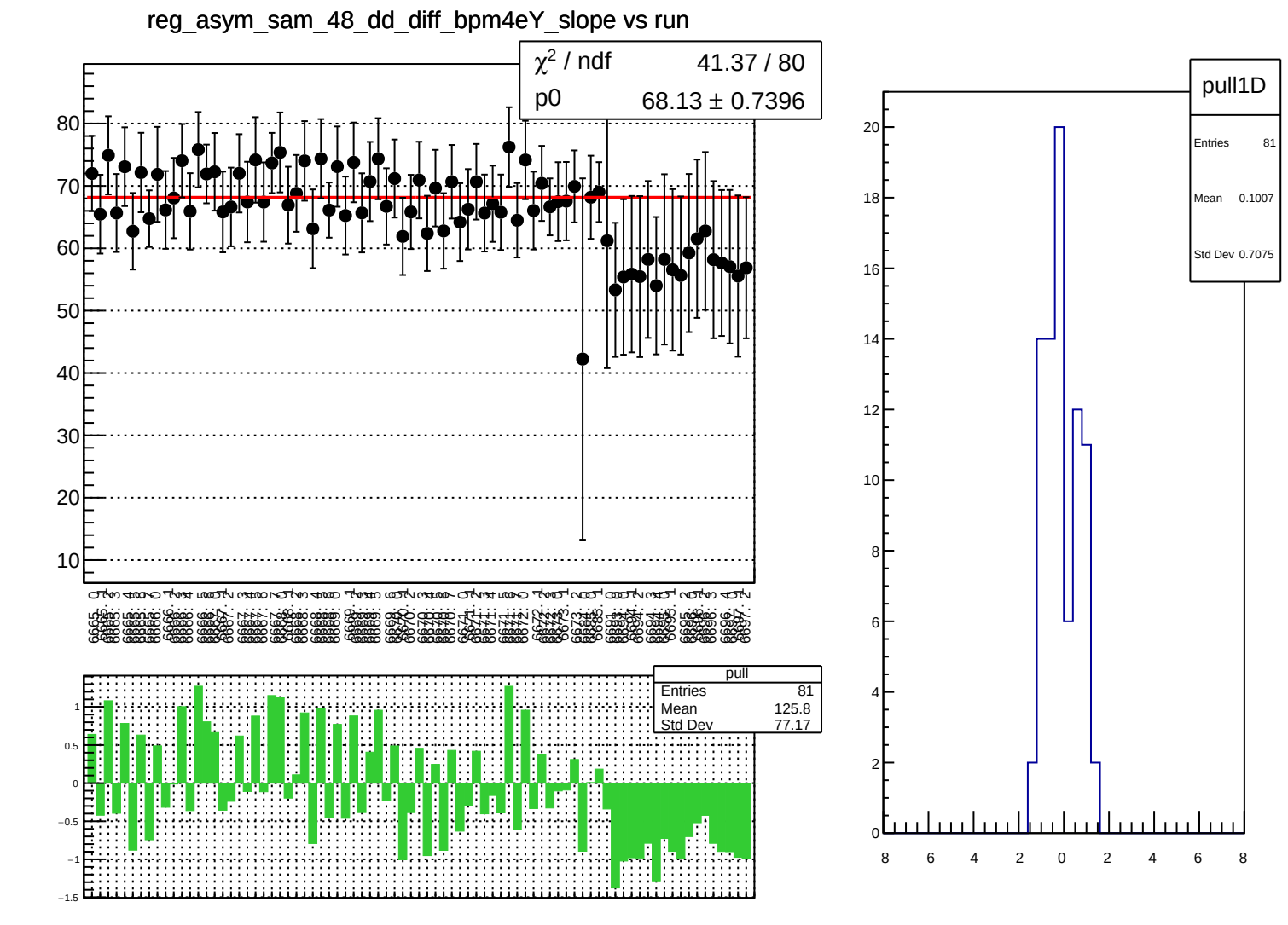

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 116.6 / 80
p0 0.3967 ± 0.03861
pull
Entries 81
Mean 645.6
Std Dev 597.5

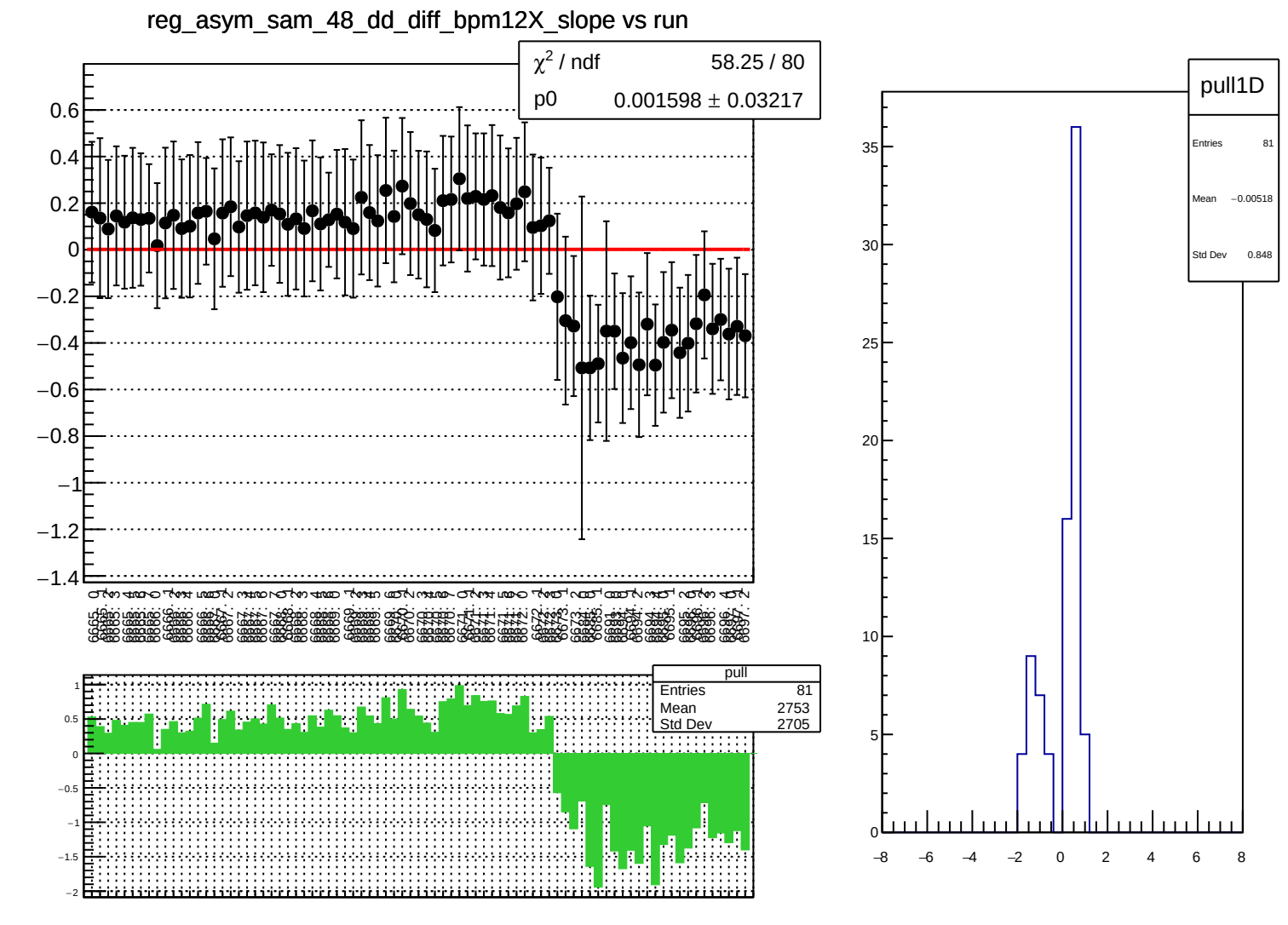

pull1D
Entries 81
Mean −0.03368
Std Dev 1.199

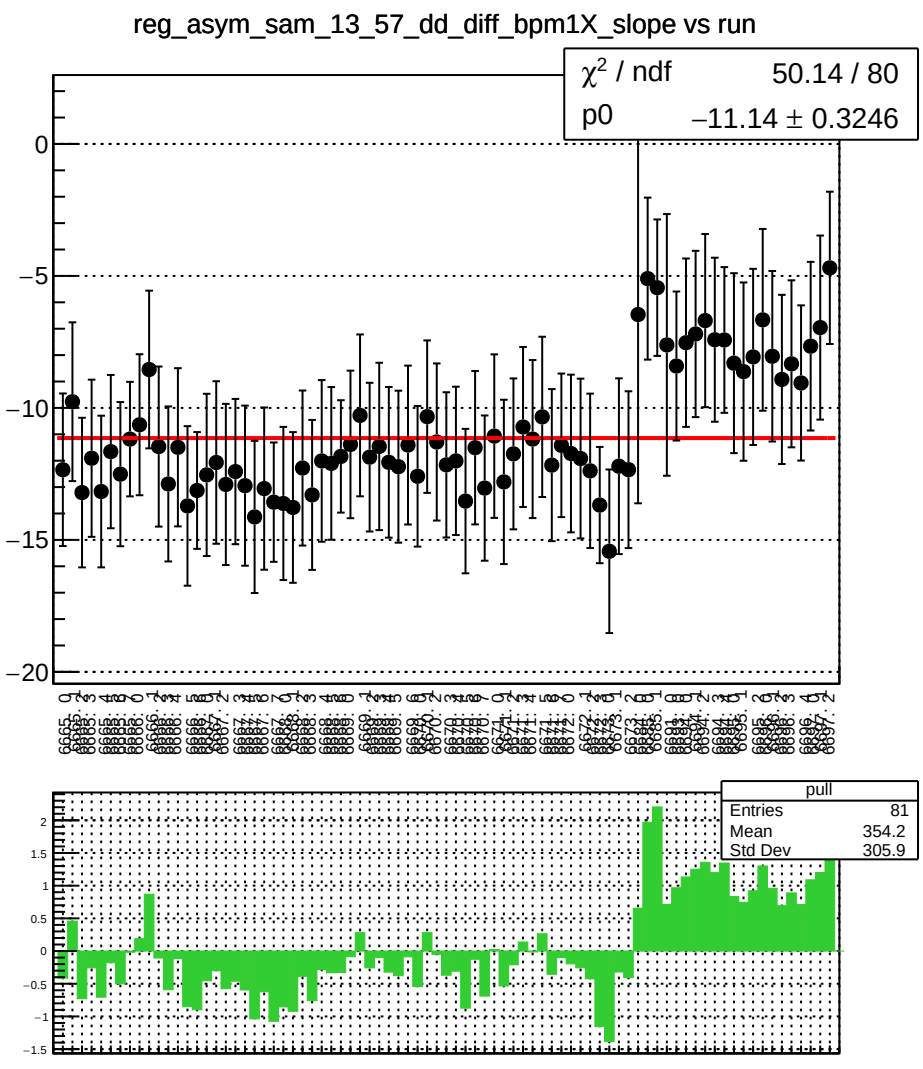

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 4.205 / 80
p0 −21.04 ± 0.7768
pull
Entries 81
Mean 164.3
Std Dev 98.35
pull1D
Entries 81
Mean −0.006695
Std Dev 0.2278

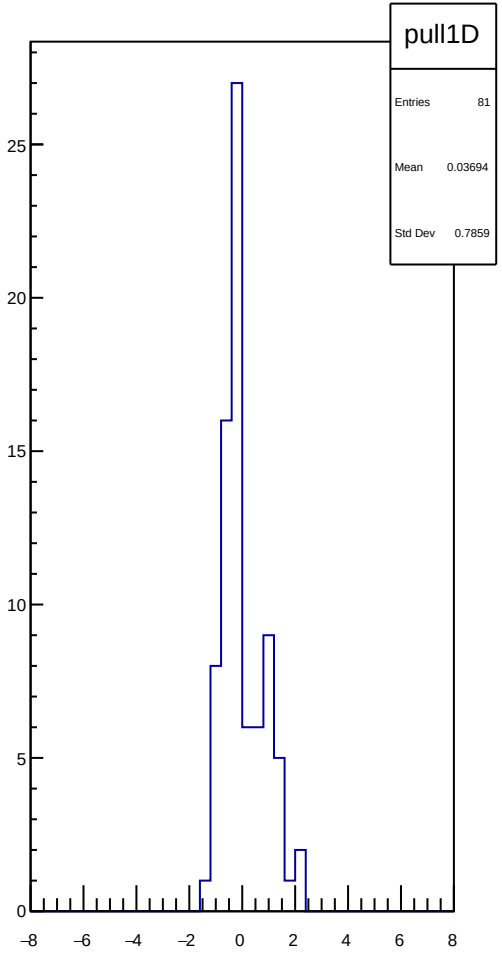

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.02 / 80
p0 29.85 ± 0.6449
pull
Entries 81
Mean 125.1
Std Dev 76.99
pull1D
Entries 81
Mean 0.1066
Std Dev 0.6096

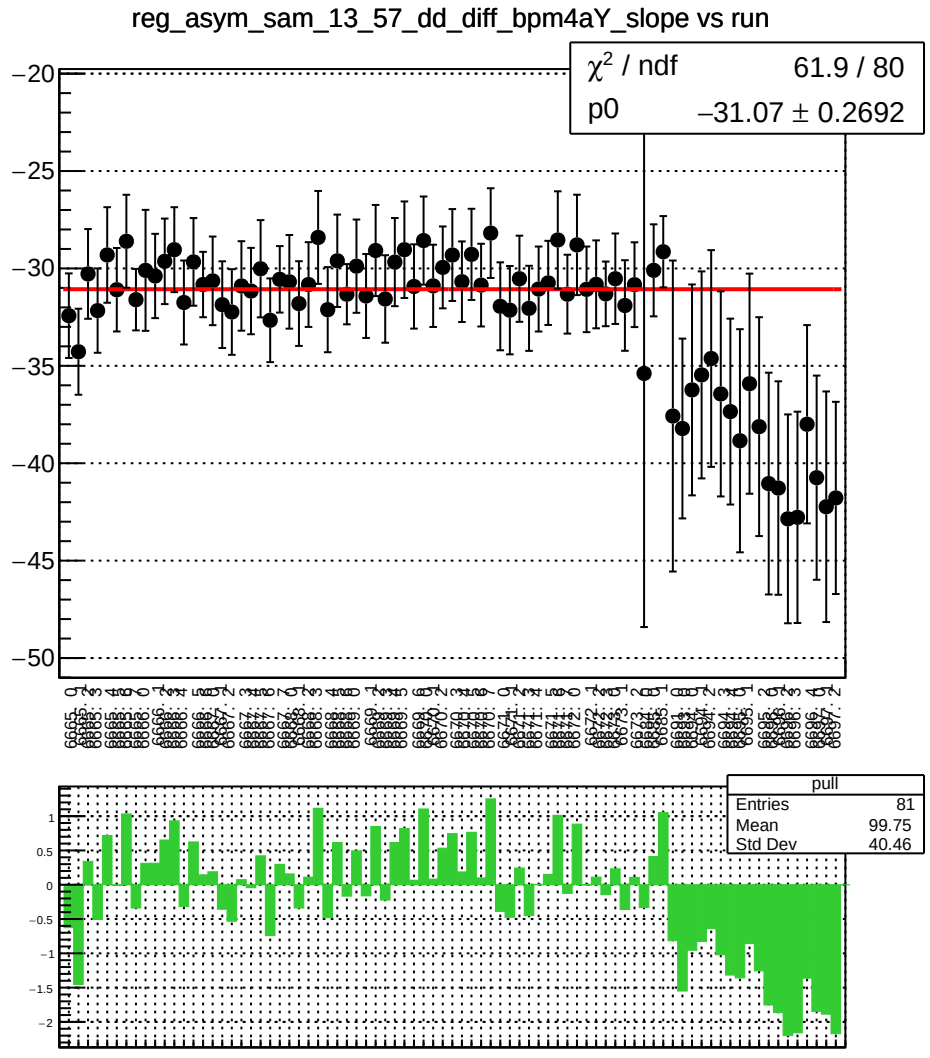

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 5.388 / 80
p0 −38.3 ± 0.8198
pull
Entries 81
Mean −118.6
Std Dev 140.8
pull1D
Entries 81
Mean 0.004241
Std Dev 0.2579

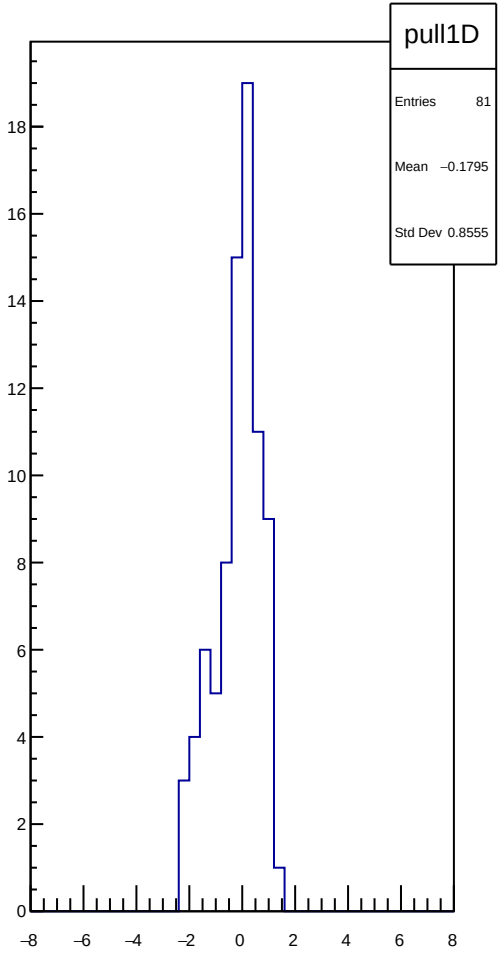

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 41.37 / 80
p0 68.13 ± 0.7396
pull
Entries 81
Mean 125.8
Std Dev 77.17
pull1D
Entries 81
Mean −0.1007
Std Dev 0.7075

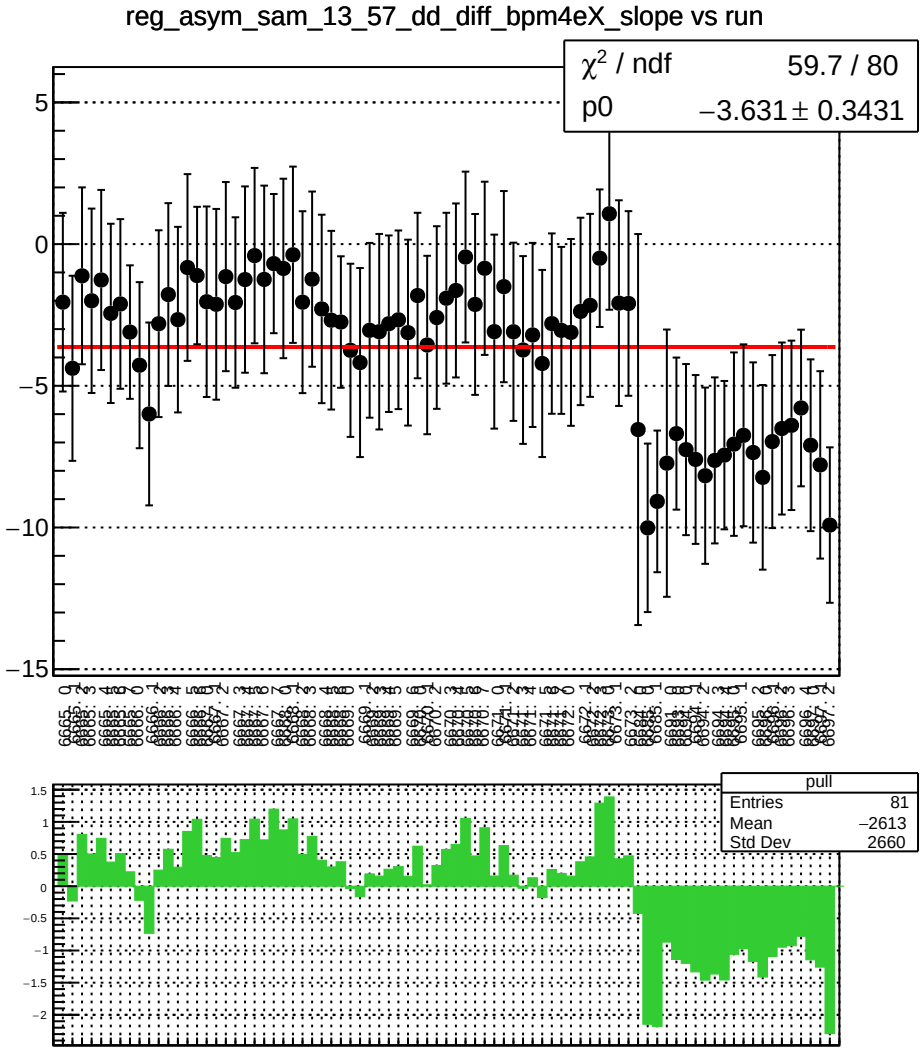

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 58.25 / 80
p0 0.001598 ± 0.03217
pull
Entries 81
Mean 2753
Std Dev 2705
pull1D
Entries 81
Mean −0.00518
Std Dev 0.848

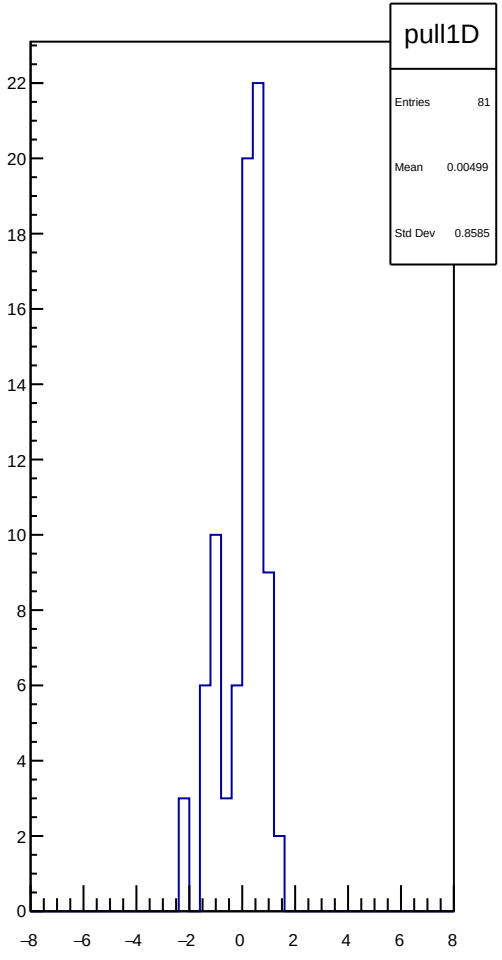

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 50.14 / 80
p0 −11.14 ± 0.3246
pull
Entries 81
Mean 354.2
Std Dev 305.9

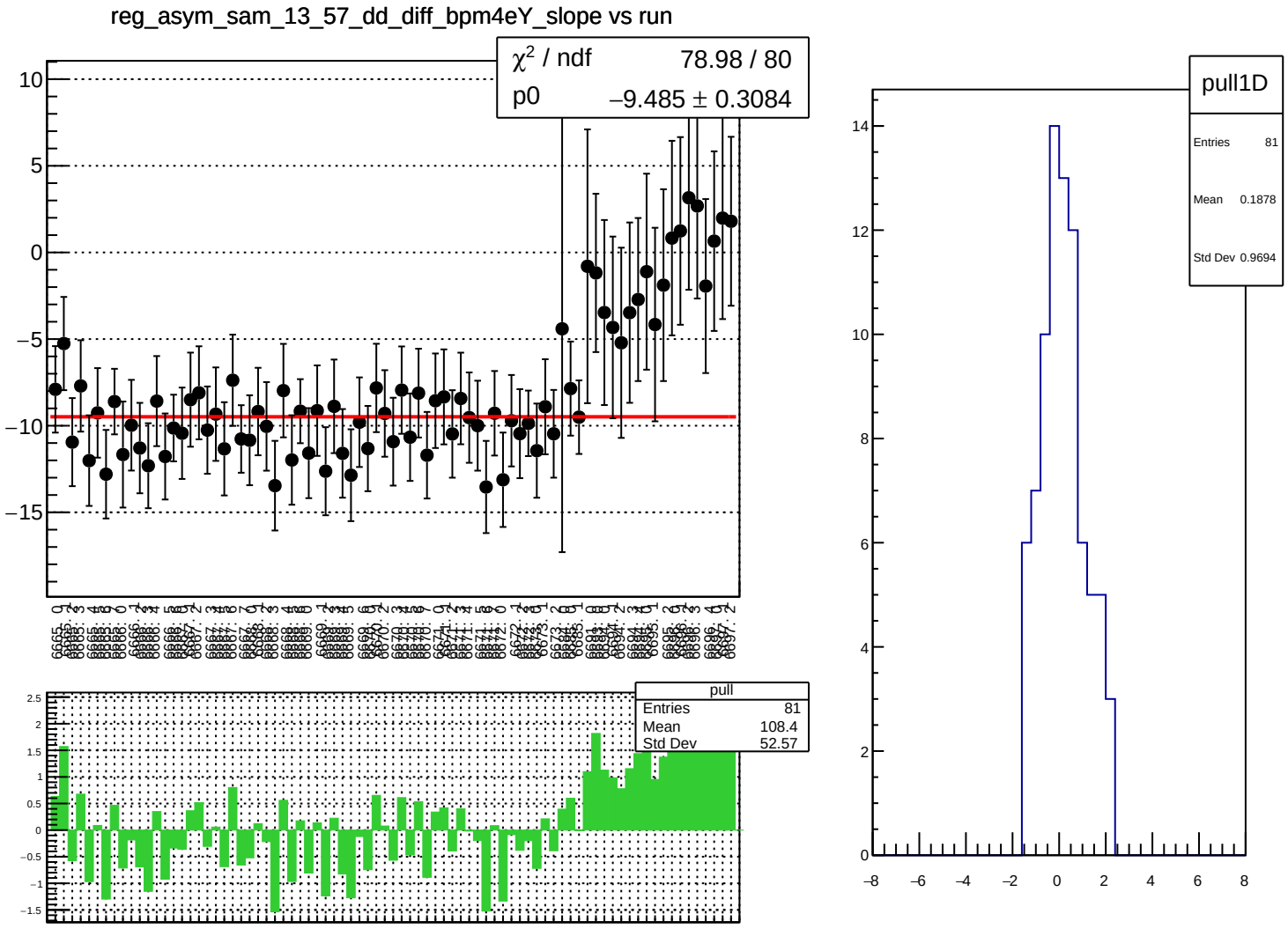

pull1D
Entries 81
Mean 0.03694
Std Dev 0.7859

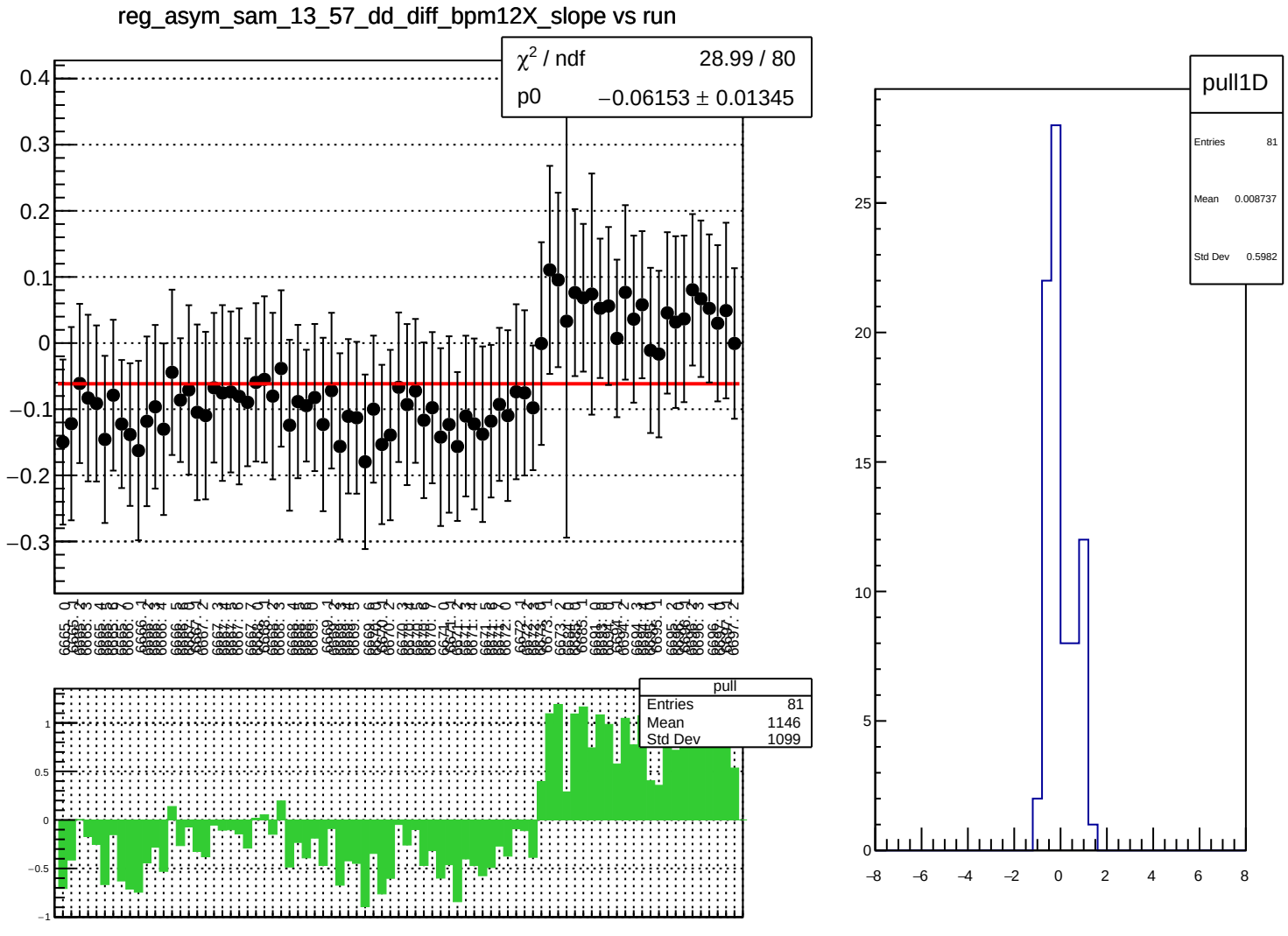

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 61.9 / 80
p0 −31.07 ± 0.2692
pull
Entries 81
Mean 99.75
Std Dev 40.46

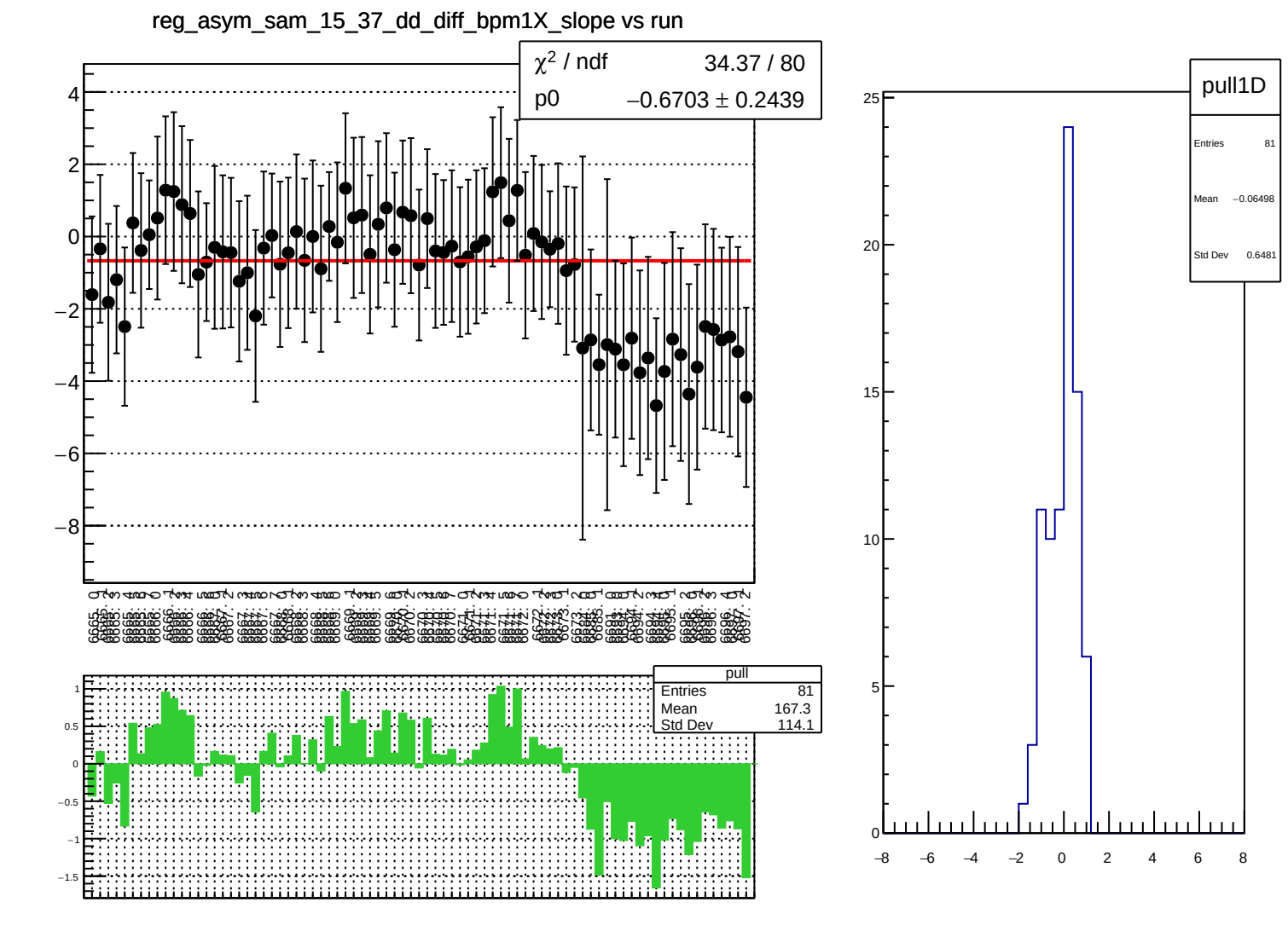

pull1D
Entries 81
Mean −0.1795
Std Dev 0.8555

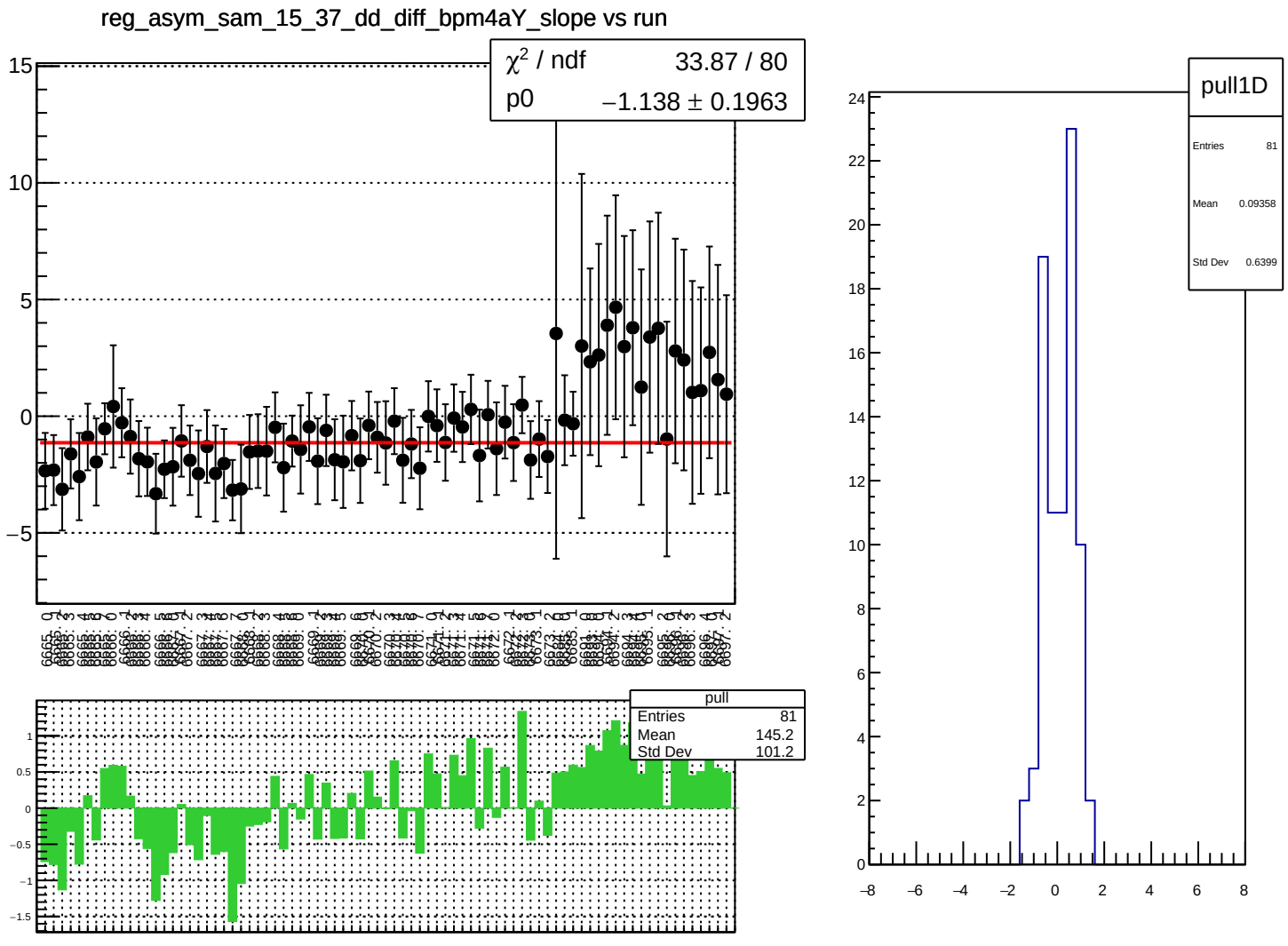

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 59.7 / 80
p0 −3.631 ± 0.3431
pull
Entries 81
Mean −2613
Std Dev 2660

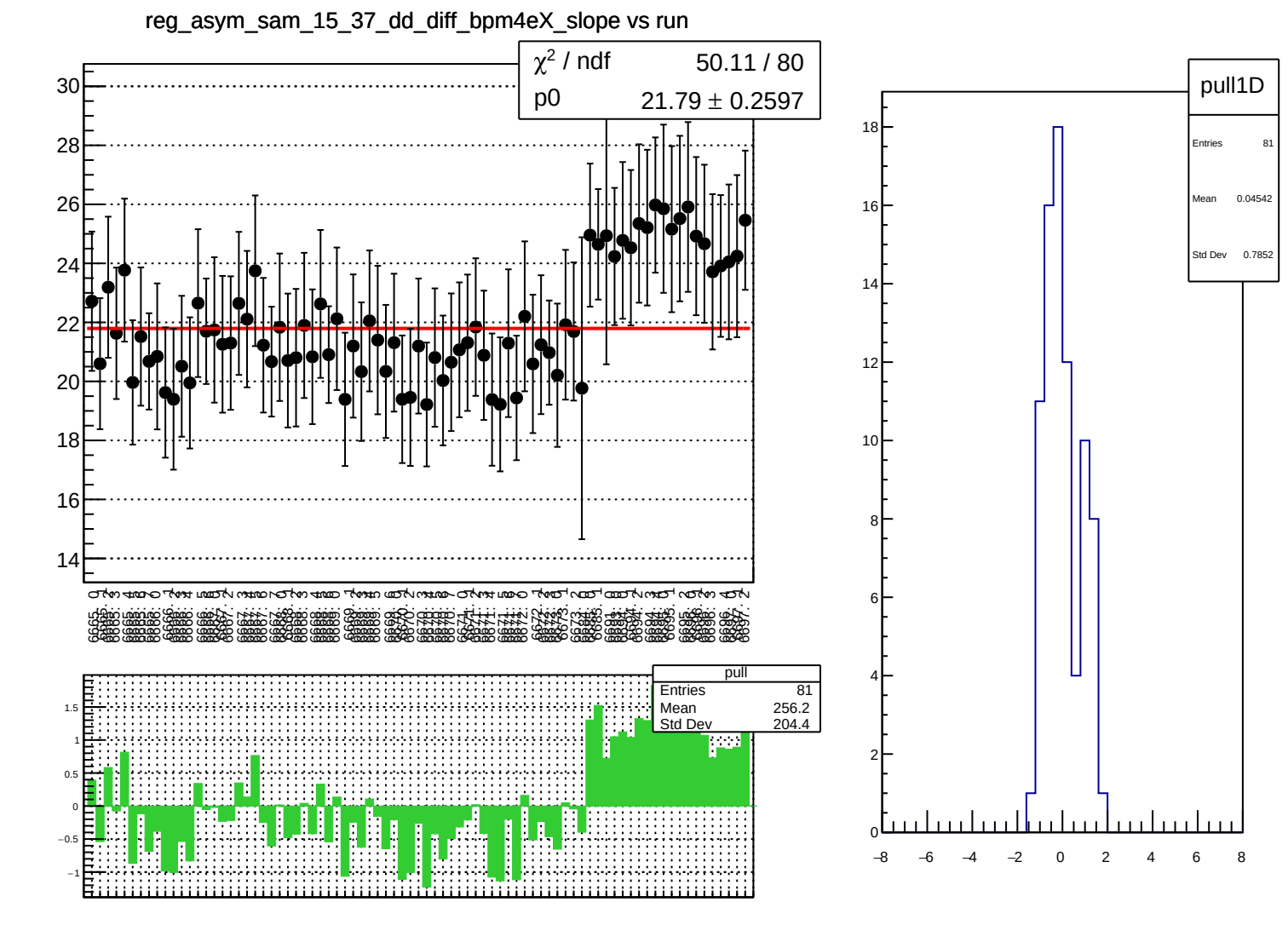

pull1D
Entries 81
Mean 0.00499
Std Dev 0.8585

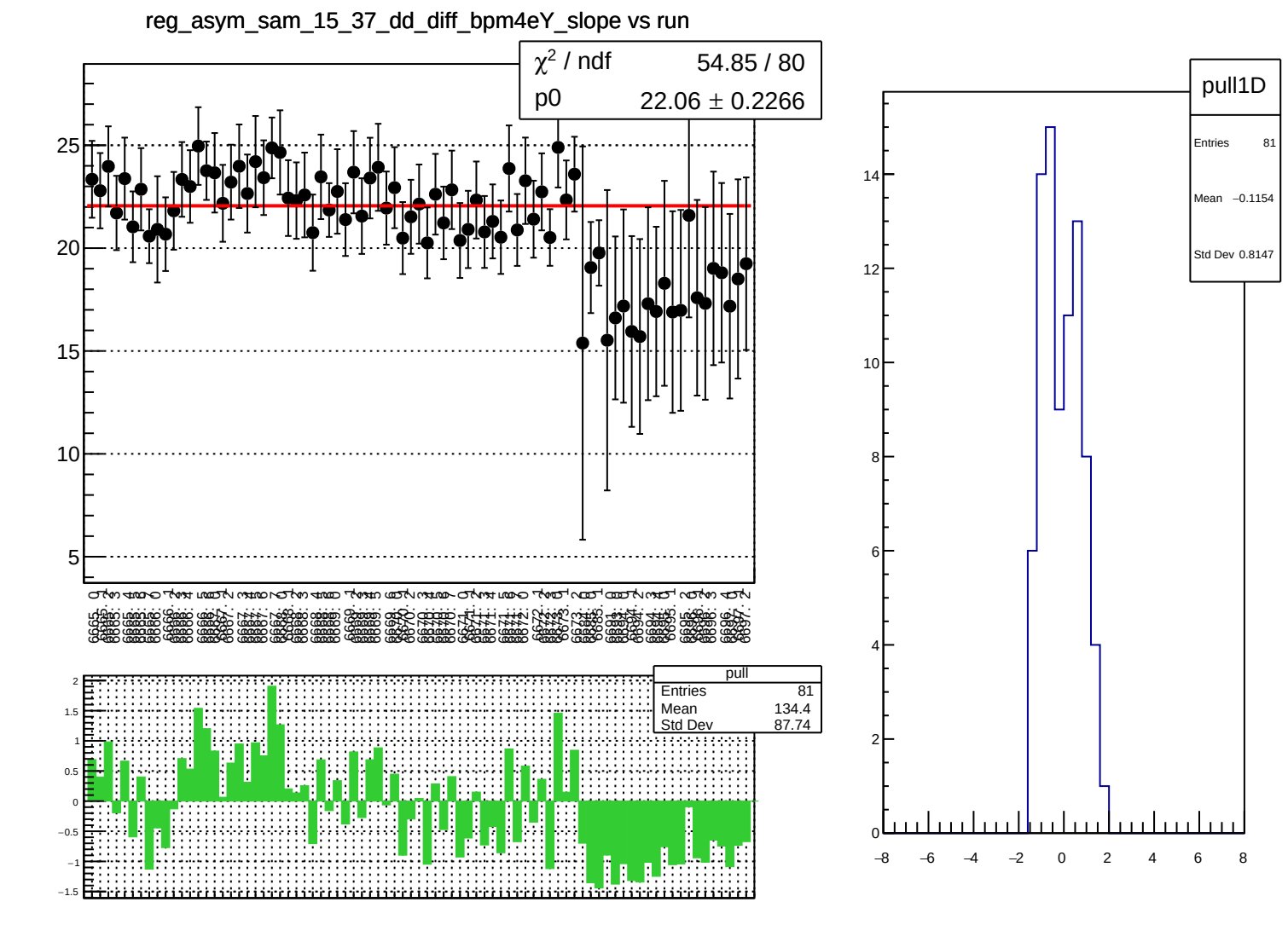

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.98 / 80
p0 −9.485 ± 0.3084
pull
Entries 81
Mean 108.4
Std Dev 52.57
pull1D
Entries 81
Mean 0.1878
Std Dev 0.9694

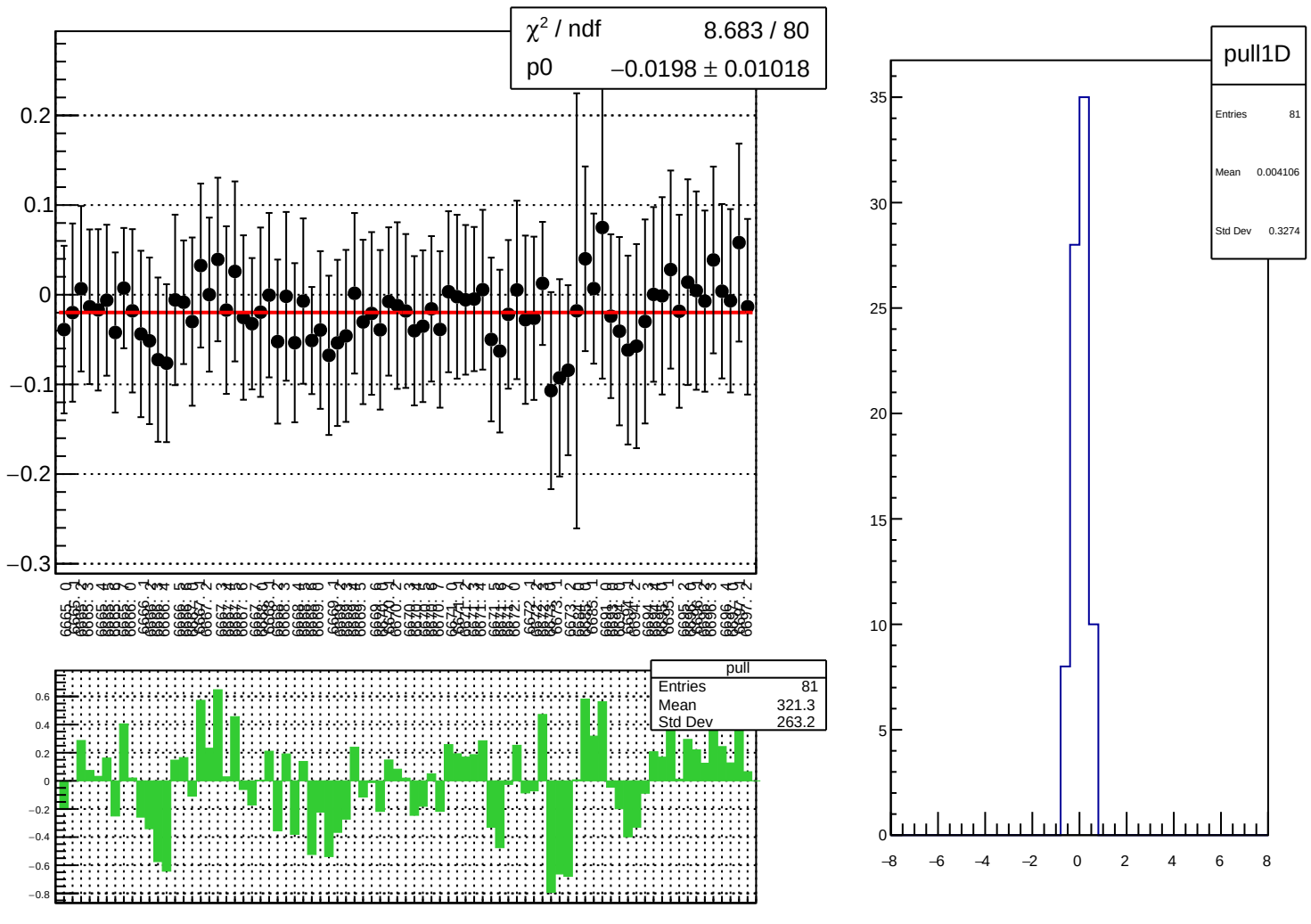

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 28.99 / 80
p0 −0.06153 ± 0.01345
pull
Entries 81
Mean 1146
Std Dev 1099
pull1D
Entries 81
Mean 0.008737
Std Dev 0.5982

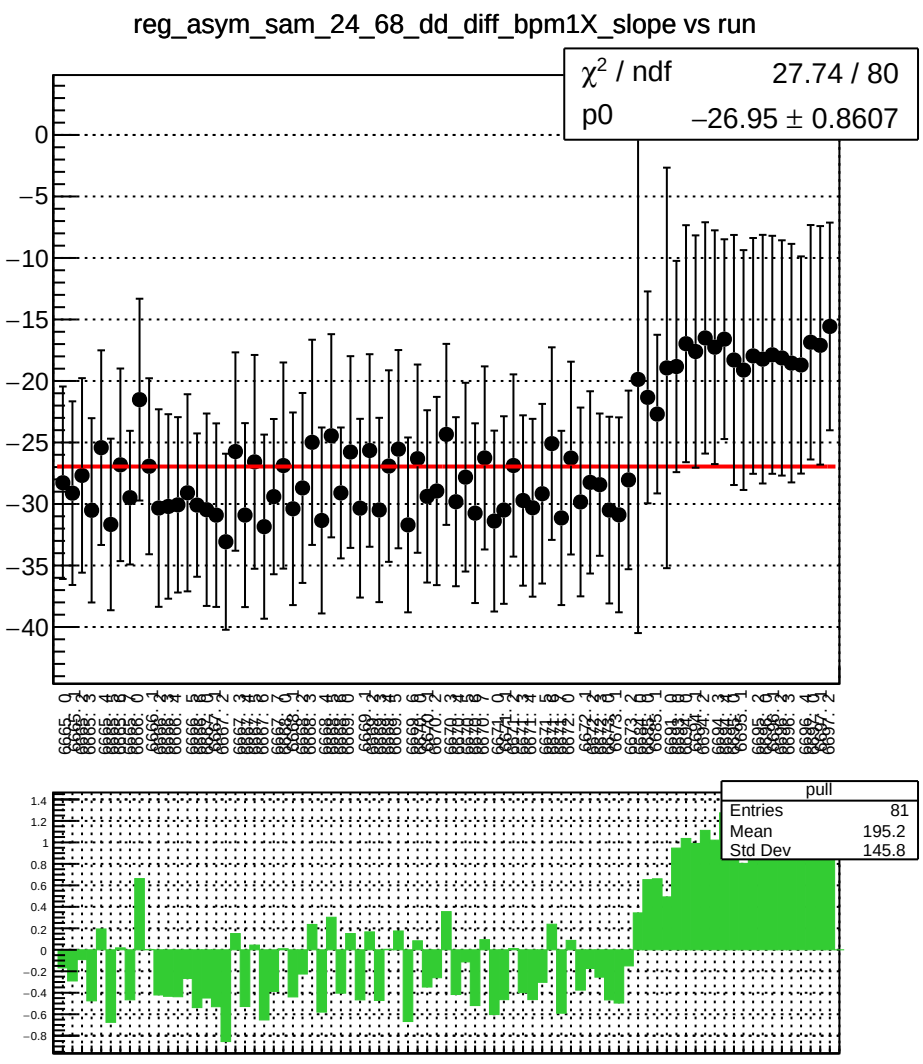

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 34.37 / 80
p0 −0.6703 ± 0.2439
pull
Entries 81
Mean 167.3
Std Dev 114.1
pull1D
Entries 81
Mean −0.06498
Std Dev 0.6481

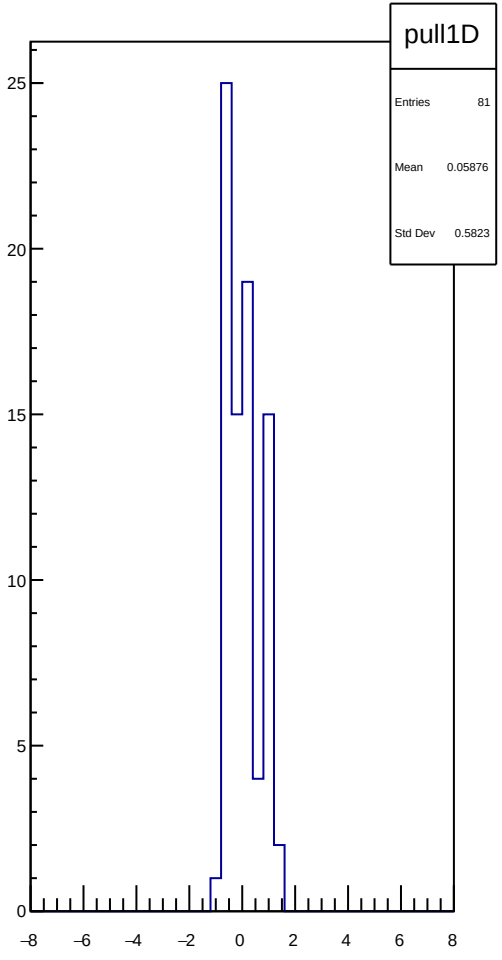

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.87 / 80
p0 −1.138 ± 0.1963
pull
Entries 81
Mean 145.2
Std Dev 101.2
pull1D
Entries 81
Mean 0.09358
Std Dev 0.6399

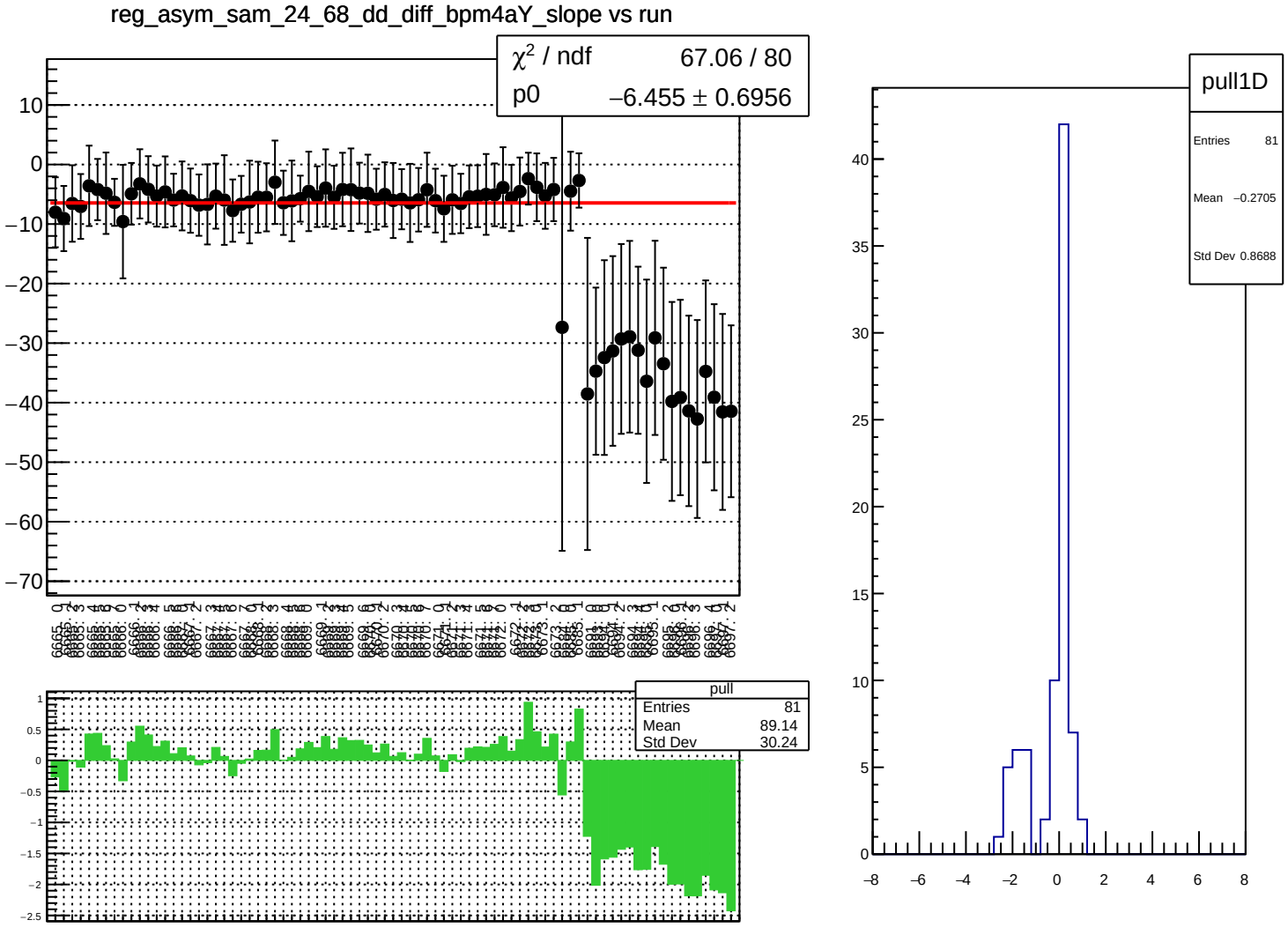

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.11 / 80
p0 21.79 ± 0.2597
pull
Entries 81
Mean 256.2
Std Dev 204.4
pull1D
Entries 81
Mean 0.04542
Std Dev 0.7852

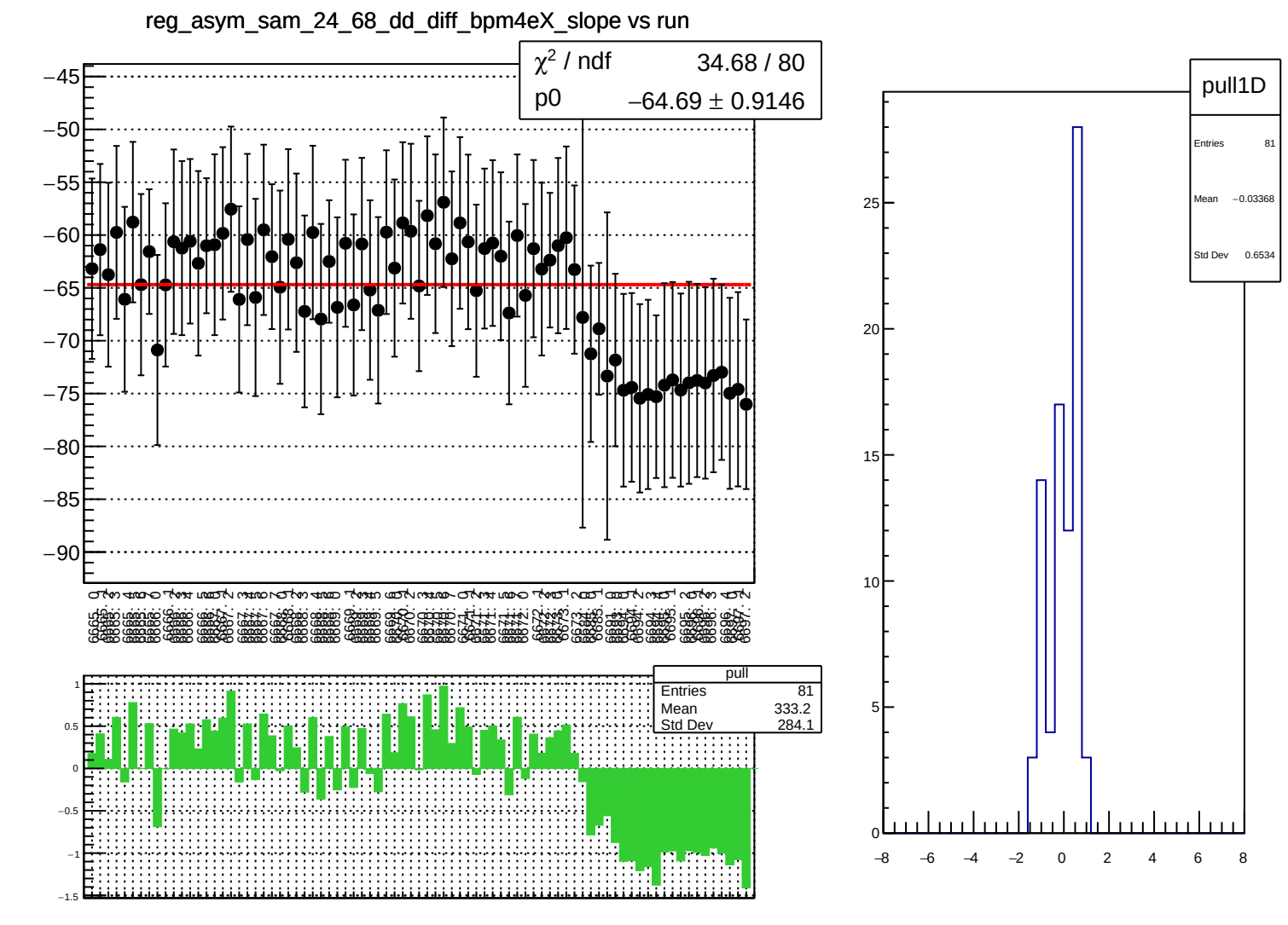

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 54.85 / 80
p0 22.06 ± 0.2266
pull
Entries 81
Mean 134.4
Std Dev 87.74
pull1D
Entries 81
Mean −0.1154
Std Dev 0.8147

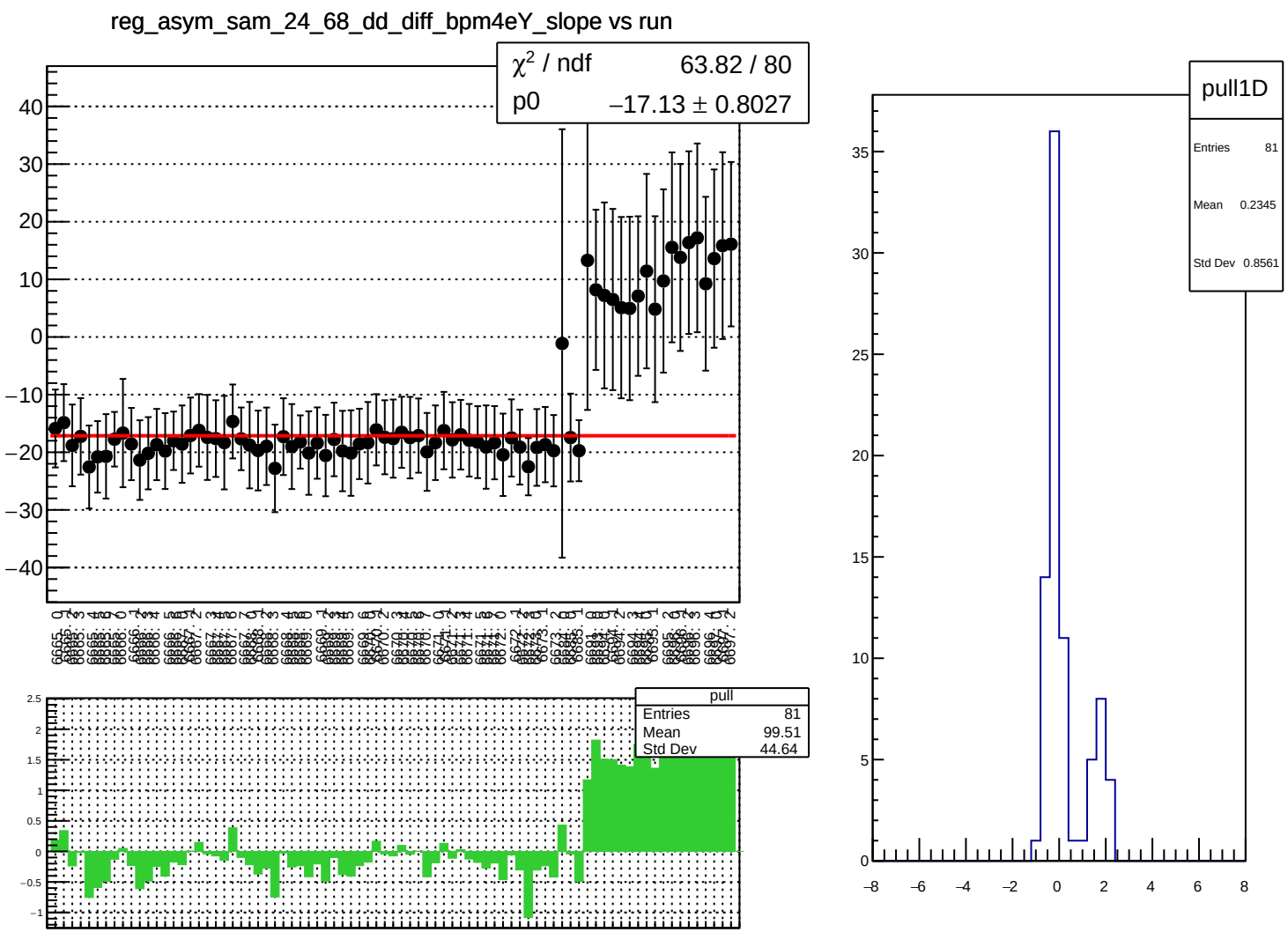

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.683 / 80
p0 −0.0198 ± 0.01018
pull
Entries 81
Mean 321.3
Std Dev 263.2
pull1D
Entries 81
Mean 0.004106
Std Dev 0.3274

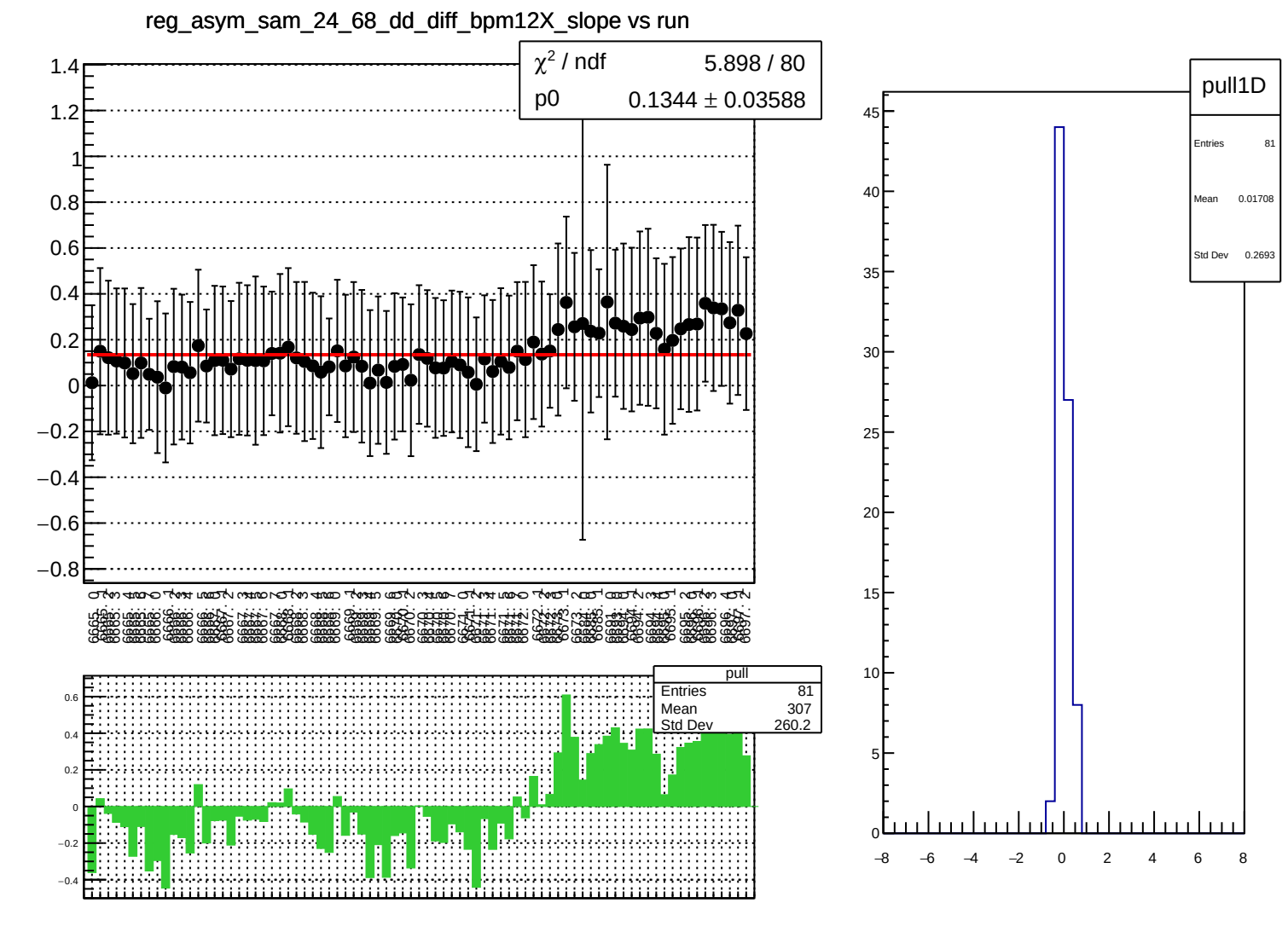

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 27.74 / 80
p0 −26.95 ± 0.8607
pull
Entries 81
Mean 195.2
Std Dev 145.8

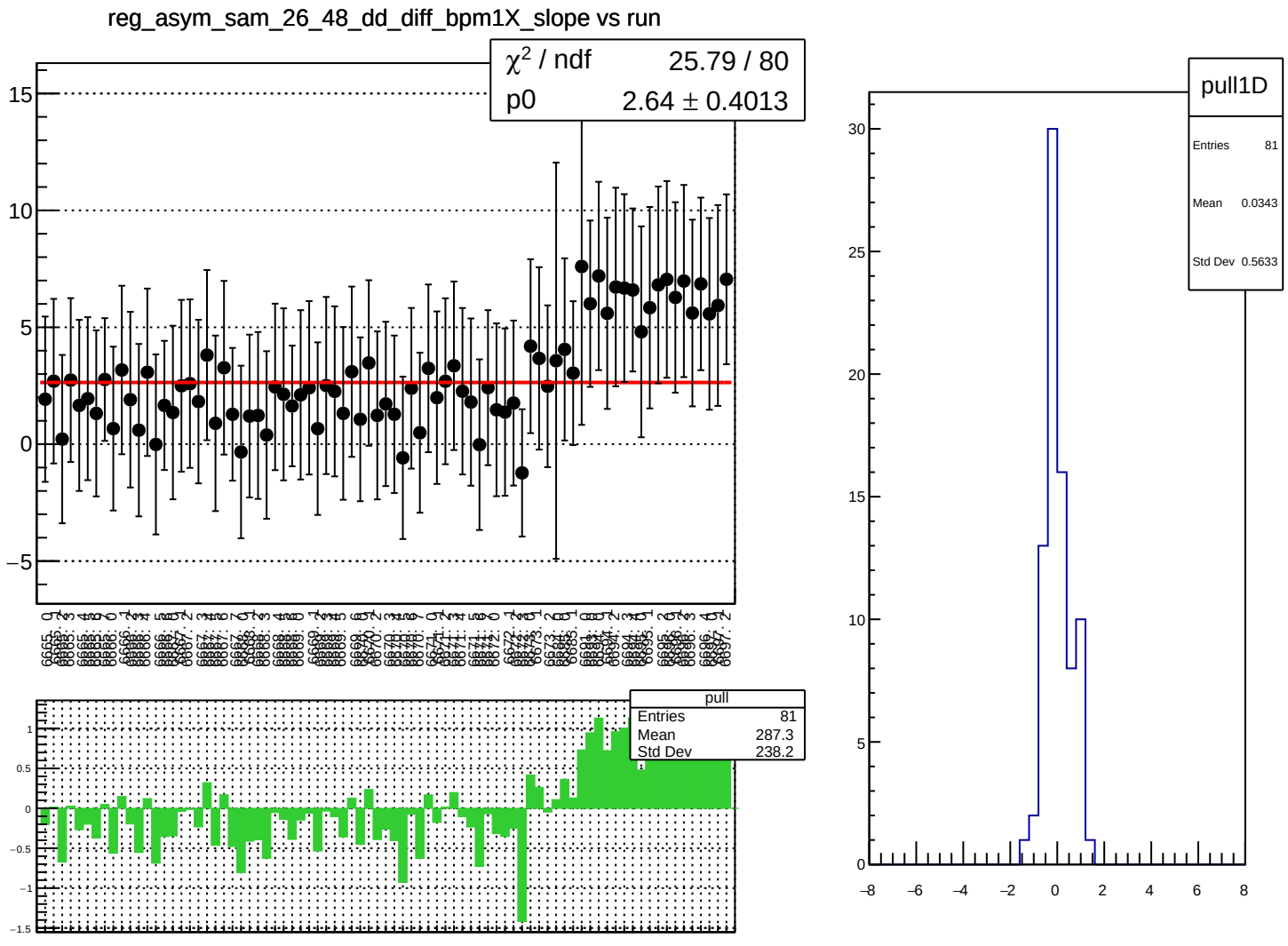

pull1D
Entries 81
Mean 0.05876
Std Dev 0.5823

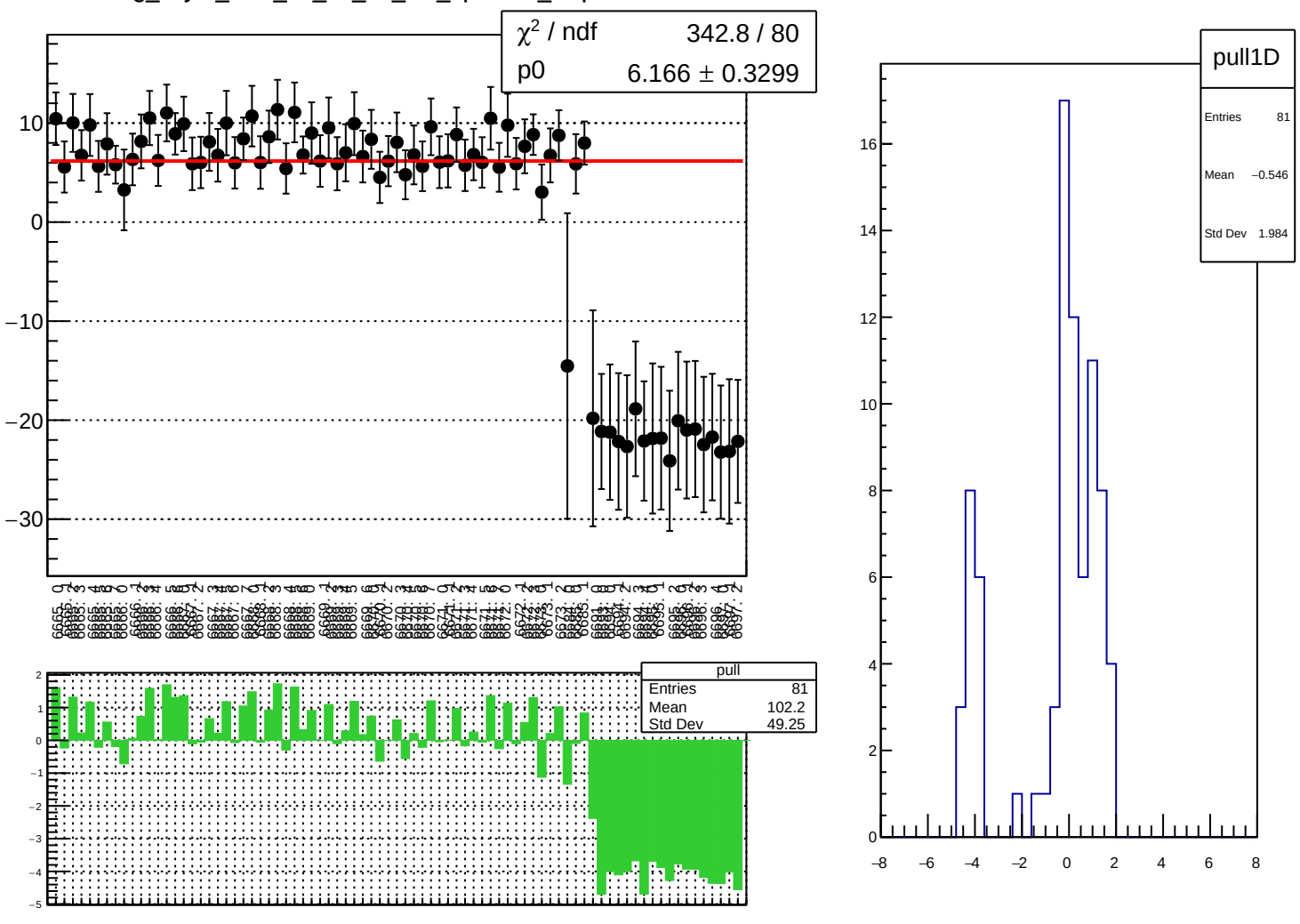

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 67.06 / 80
p0 −6.455 ± 0.6956
pull
Entries 81
Mean 89.14
Std Dev 30.24
pull1D
Entries 81
Mean −0.2705
Std Dev 0.8688

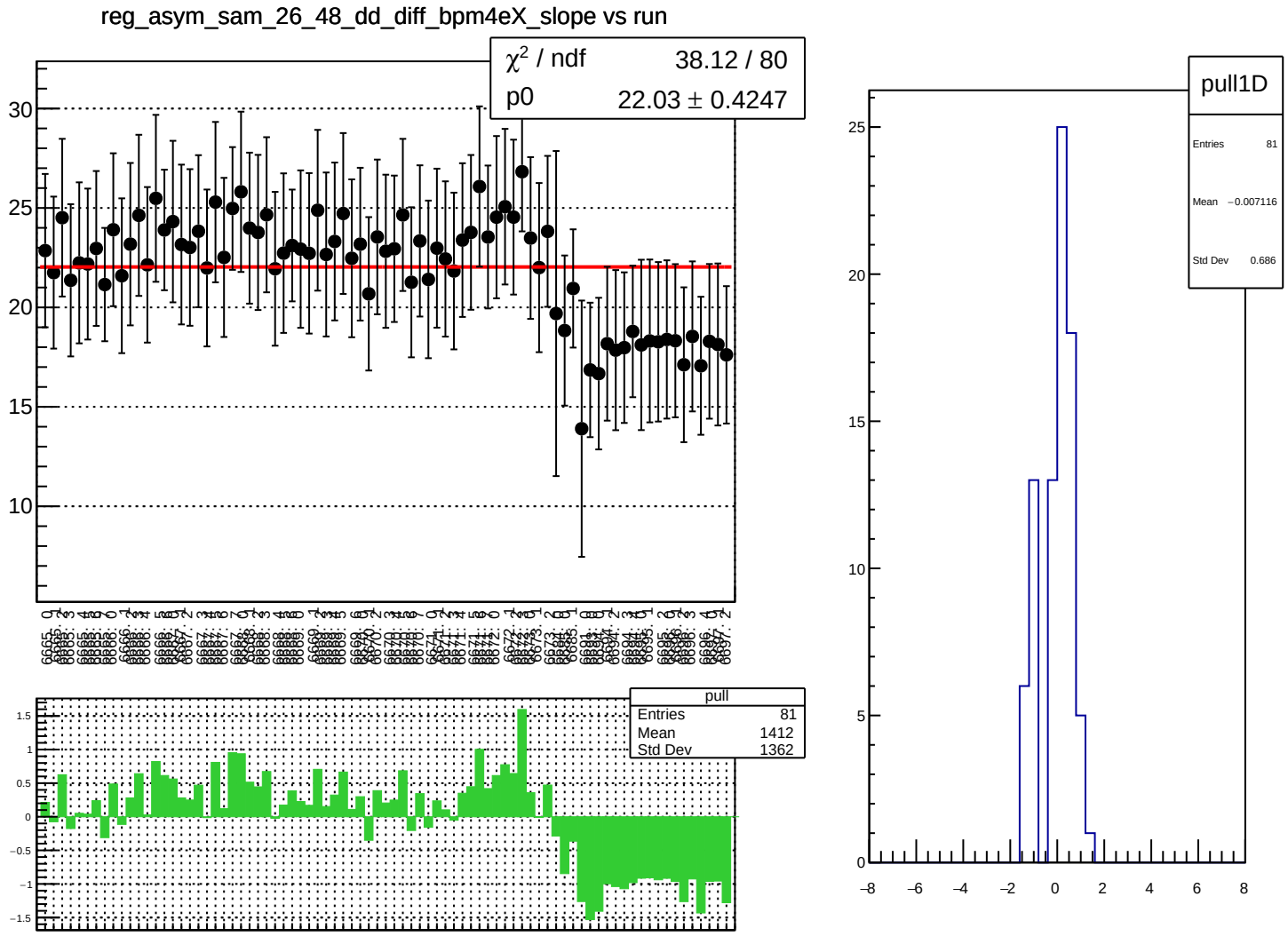

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.68 / 80
p0 −64.69 ± 0.9146
pull
Entries 81
Mean 333.2
Std Dev 284.1
pull1D
Entries 81
Mean −0.03368
Std Dev 0.6534

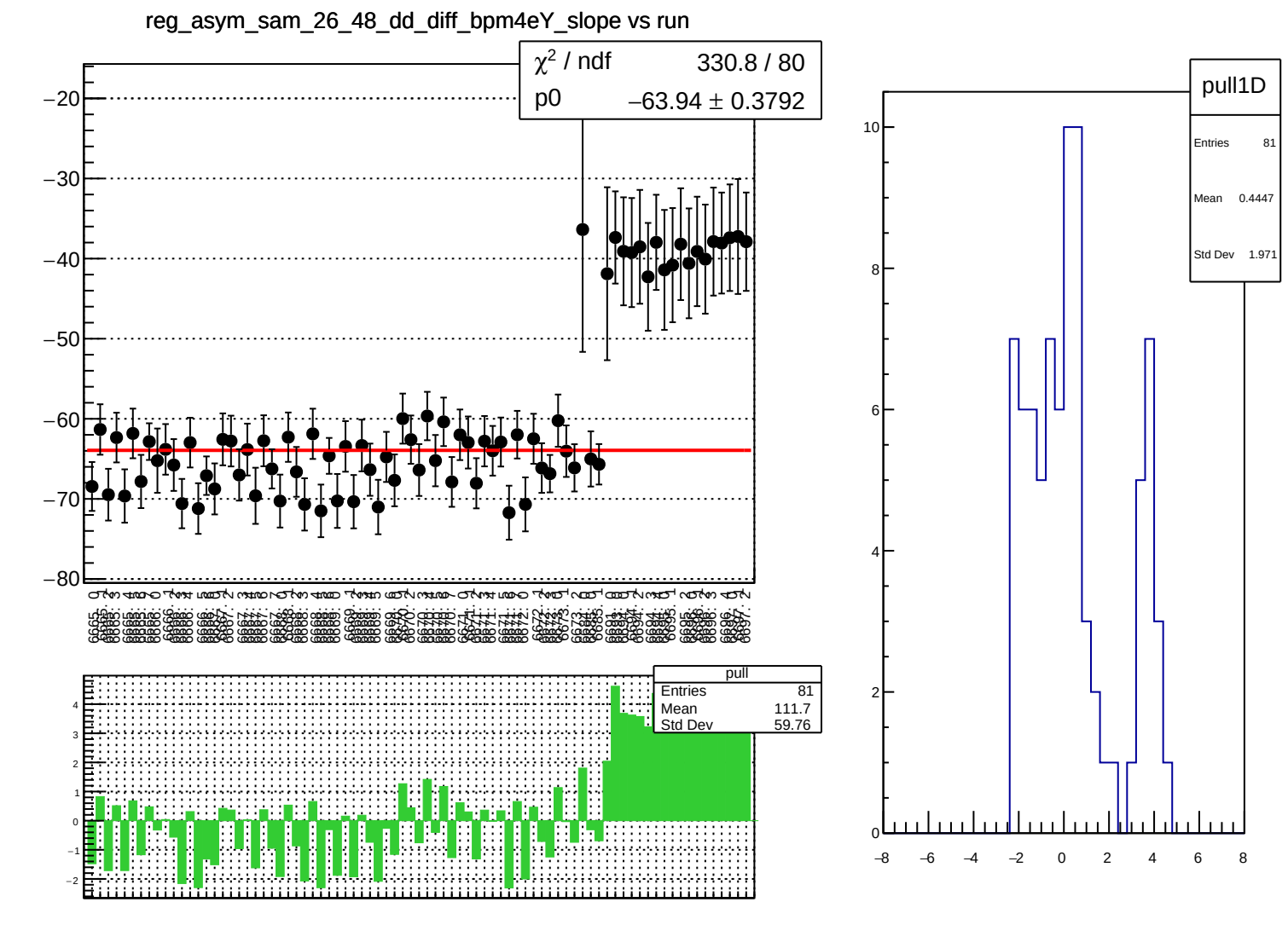

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.82 / 80
p0 −17.13 ± 0.8027
pull
Entries 81
Mean 99.51
Std Dev 44.64
pull1D
Entries 81
Mean 0.2345
Std Dev 0.8561

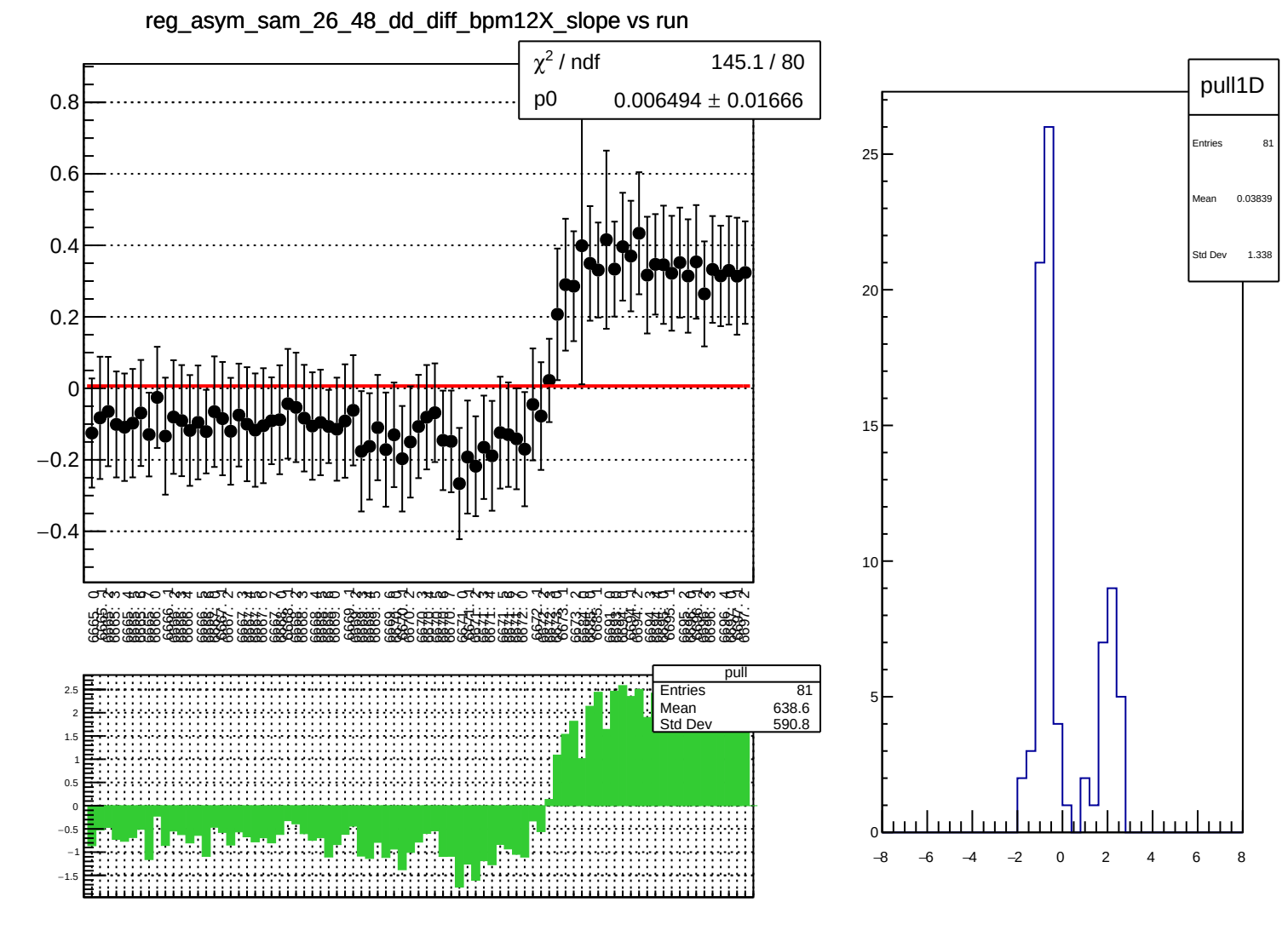

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 5.898 / 80
p0 0.1344 ± 0.03588
pull
Entries 81
Mean 307
Std Dev 260.2
pull1D
Entries 81
Mean 0.01708
Std Dev 0.2693

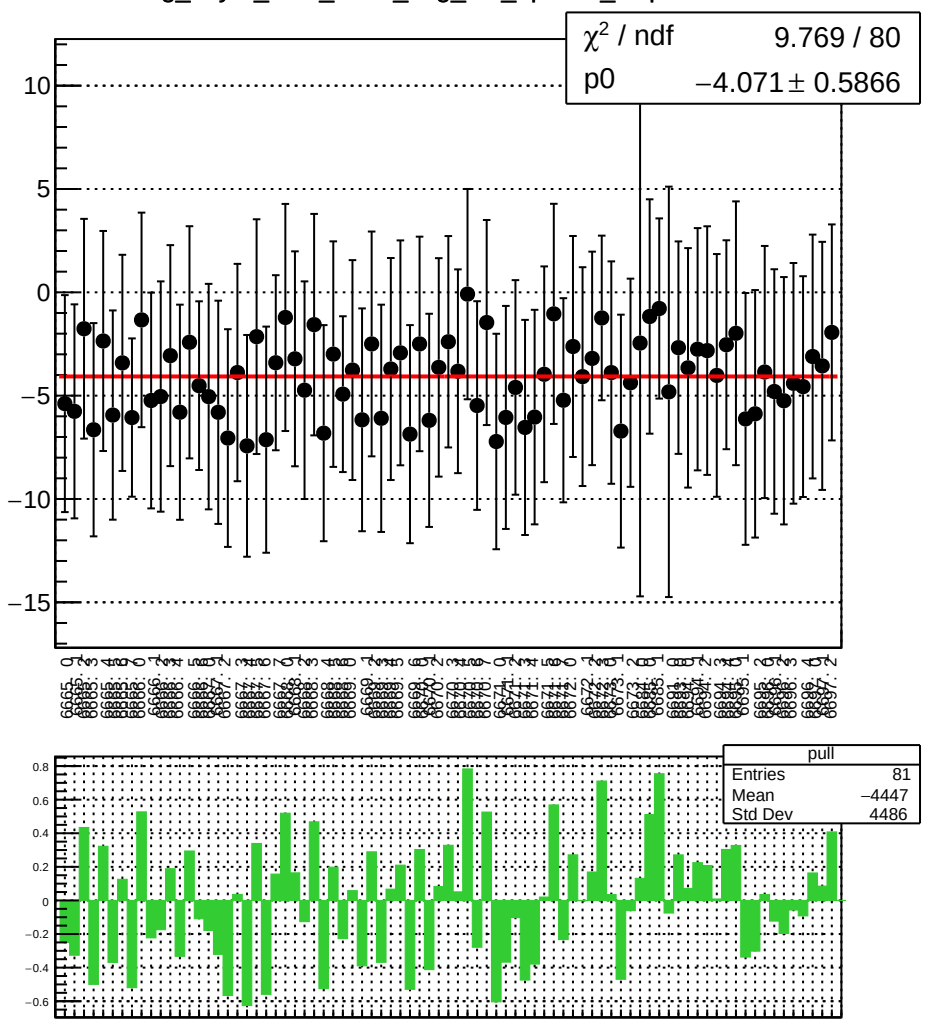

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 25.79 / 80
p0 2.64 ± 0.4013
pull
Entries 81
Mean 287.3
Std Dev 238.2
pull1D
Entries 81
Mean 0.0343
Std Dev 0.5633

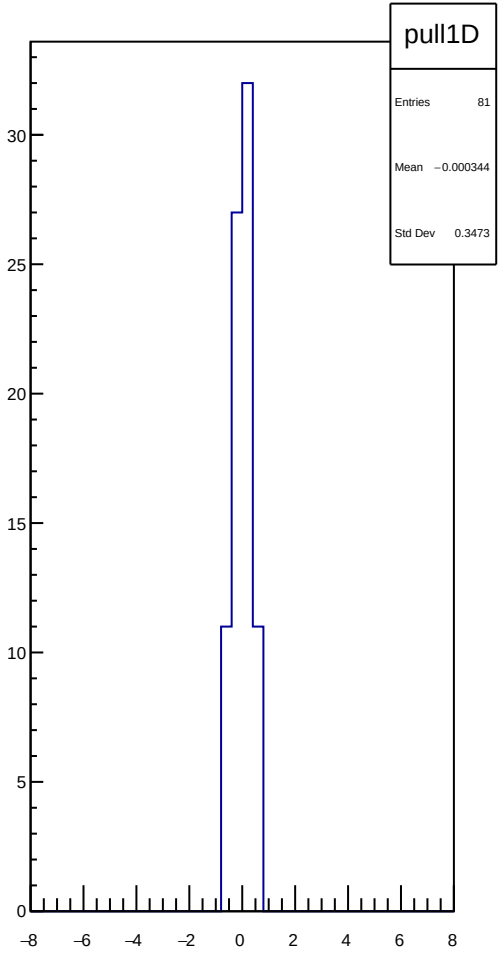

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 342.8 / 80
p0 6.166 ± 0.3299
pull
Entries 81
Mean 102.2
Std Dev 49.25
pull1D
Entries 81
Mean −0.546
Std Dev 1.984

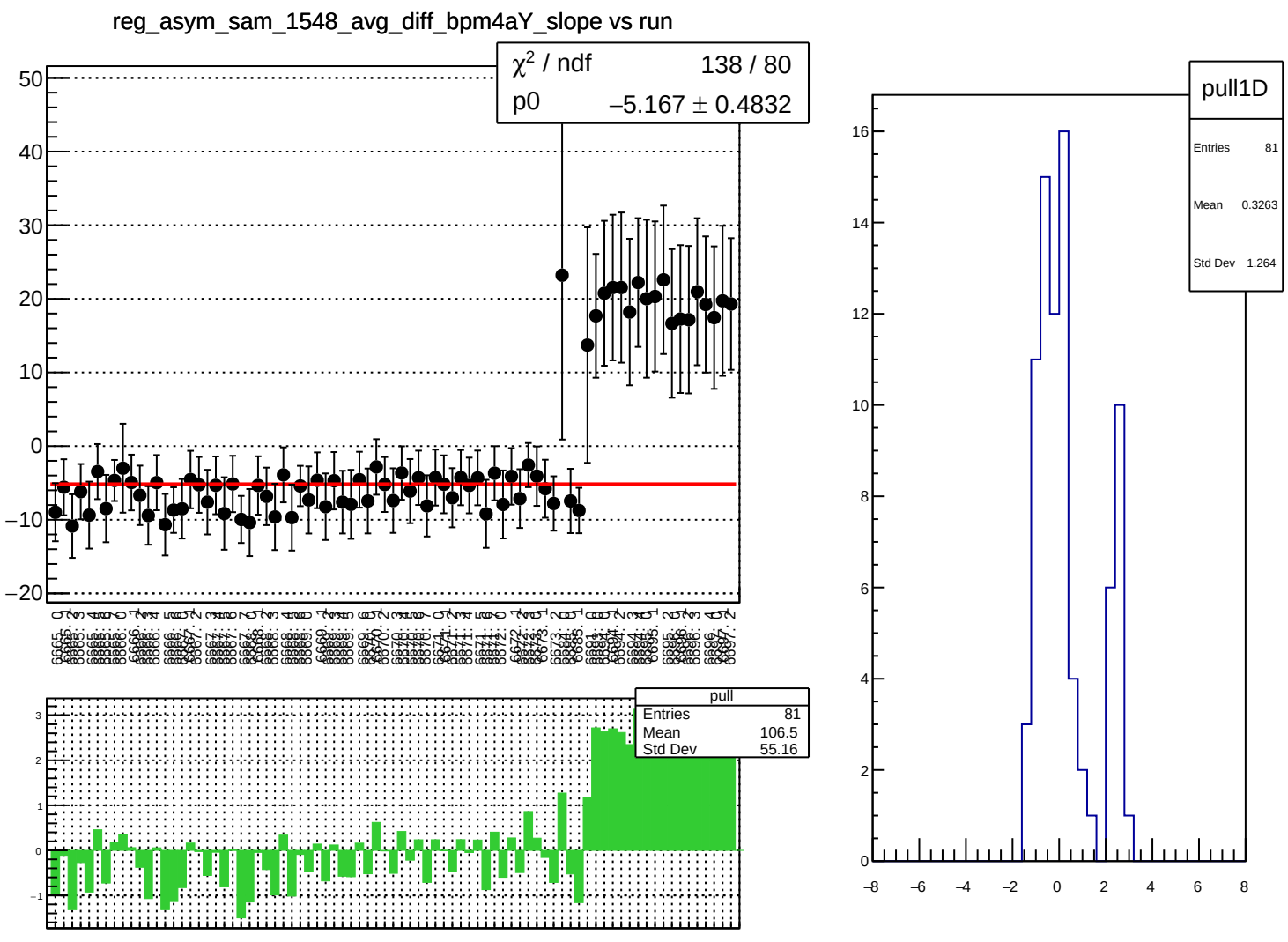

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.12 / 80
p0 22.03 ± 0.4247
pull
Entries 81
Mean 1412
Std Dev 1362
pull1D
Entries 81
Mean −0.007116
Std Dev 0.686

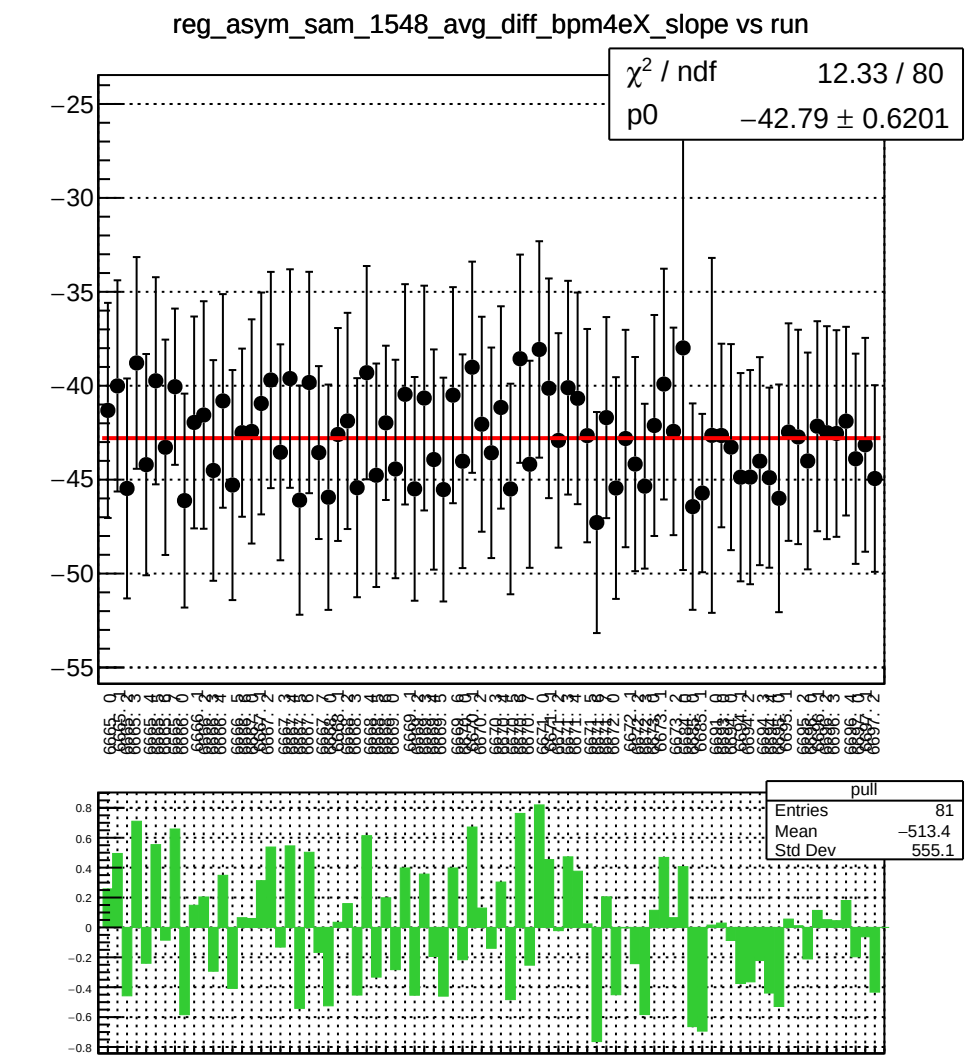

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 330.8 / 80
p0 −63.94 ± 0.3792
pull
Entries 81
Mean 111.7
Std Dev 59.76
pull1D
Entries 81
Mean 0.4447
Std Dev 1.971

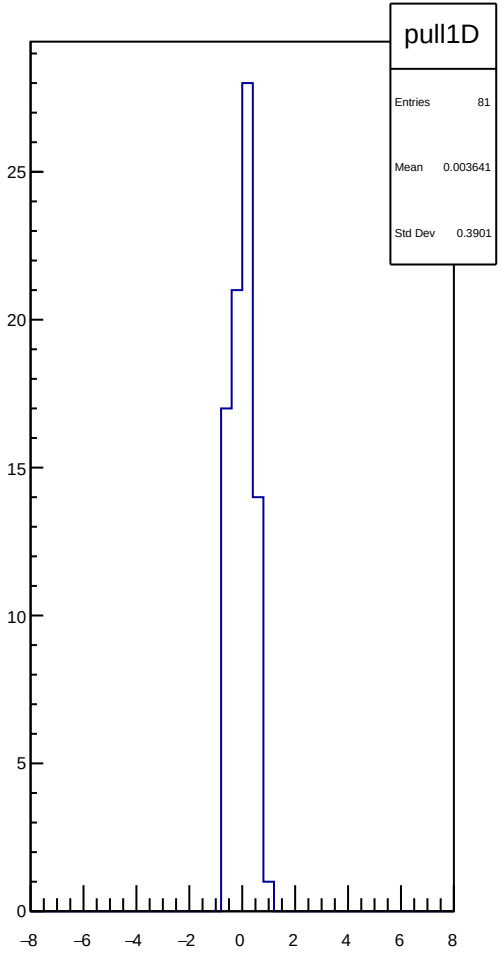

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 145.1 / 80
p0 0.006494 ± 0.01666
pull
Entries 81
Mean 638.6
Std Dev 590.8
pull1D
Entries 81
Mean 0.03839
Std Dev 1.338

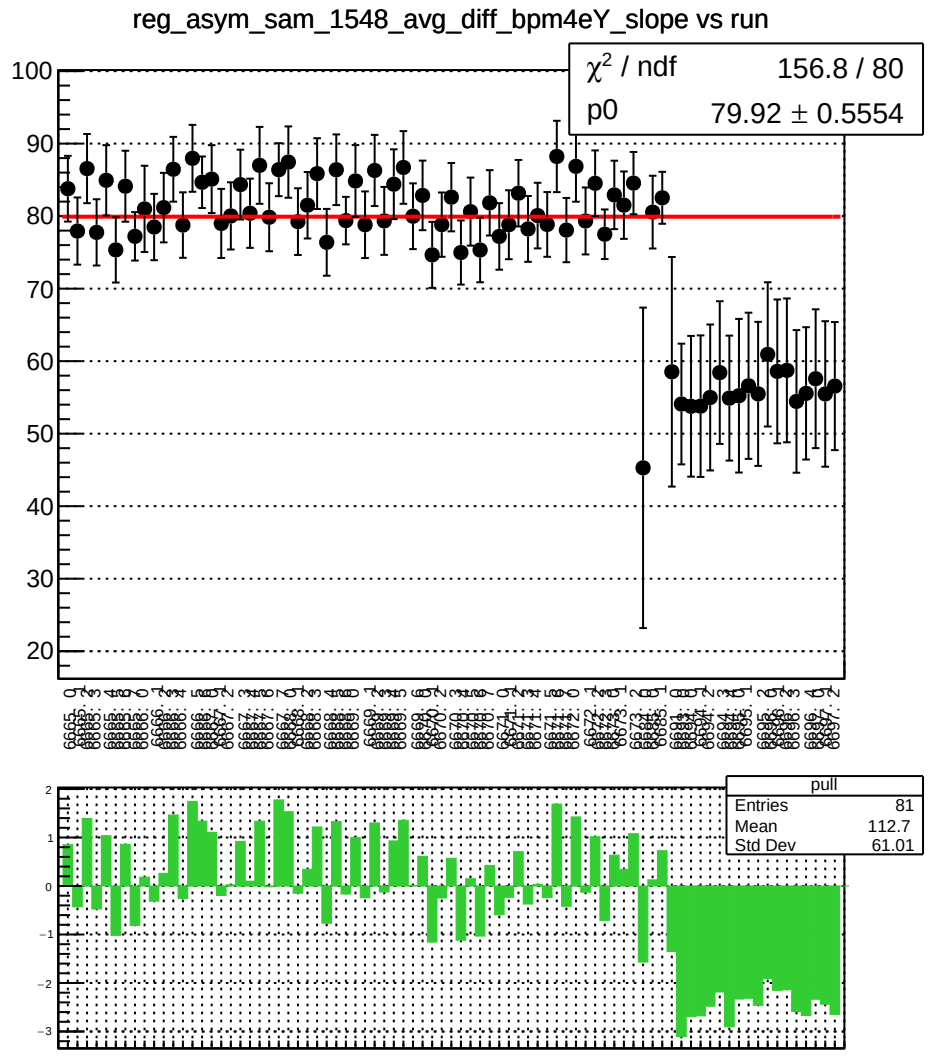

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 9.769 / 80
p0 −4.071 ± 0.5866
pull
Entries 81
Mean −4447
Std Dev 4486

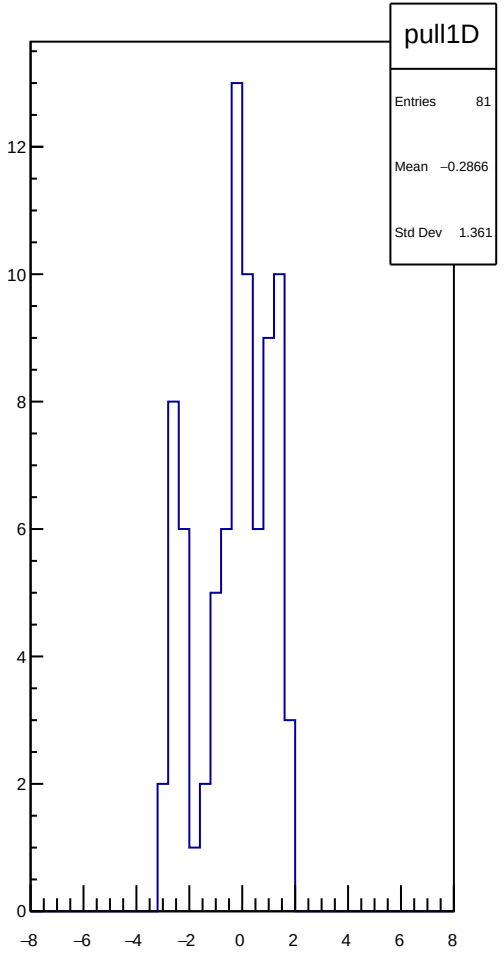

pull1D
Entries 81
Mean −0.000344
Std Dev 0.3473

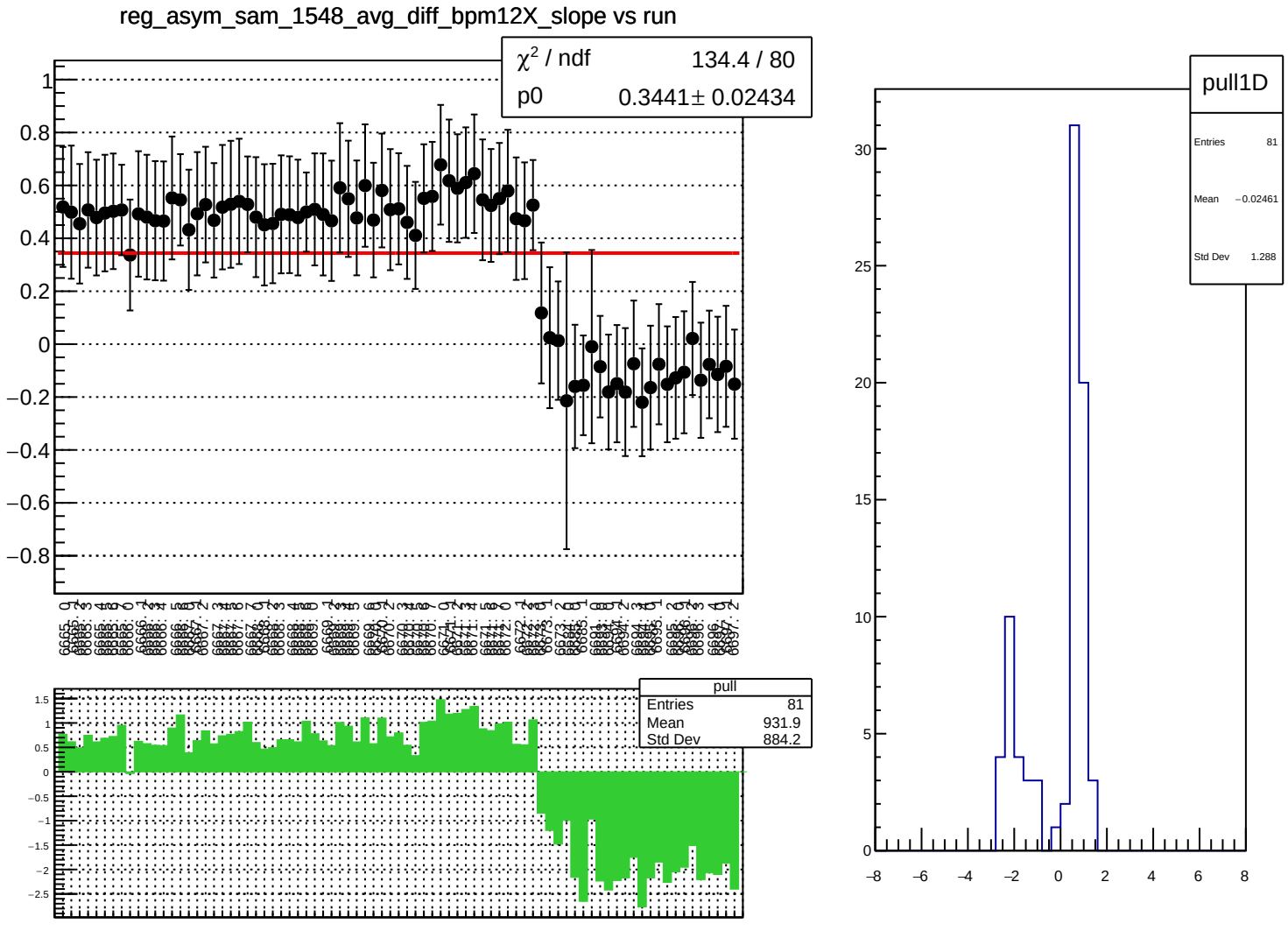

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 138 / 80
p0 −5.167 ± 0.4832
pull
Entries 81
Mean 106.5
Std Dev 55.16
pull1D
Entries 81
Mean 0.3263
Std Dev 1.264

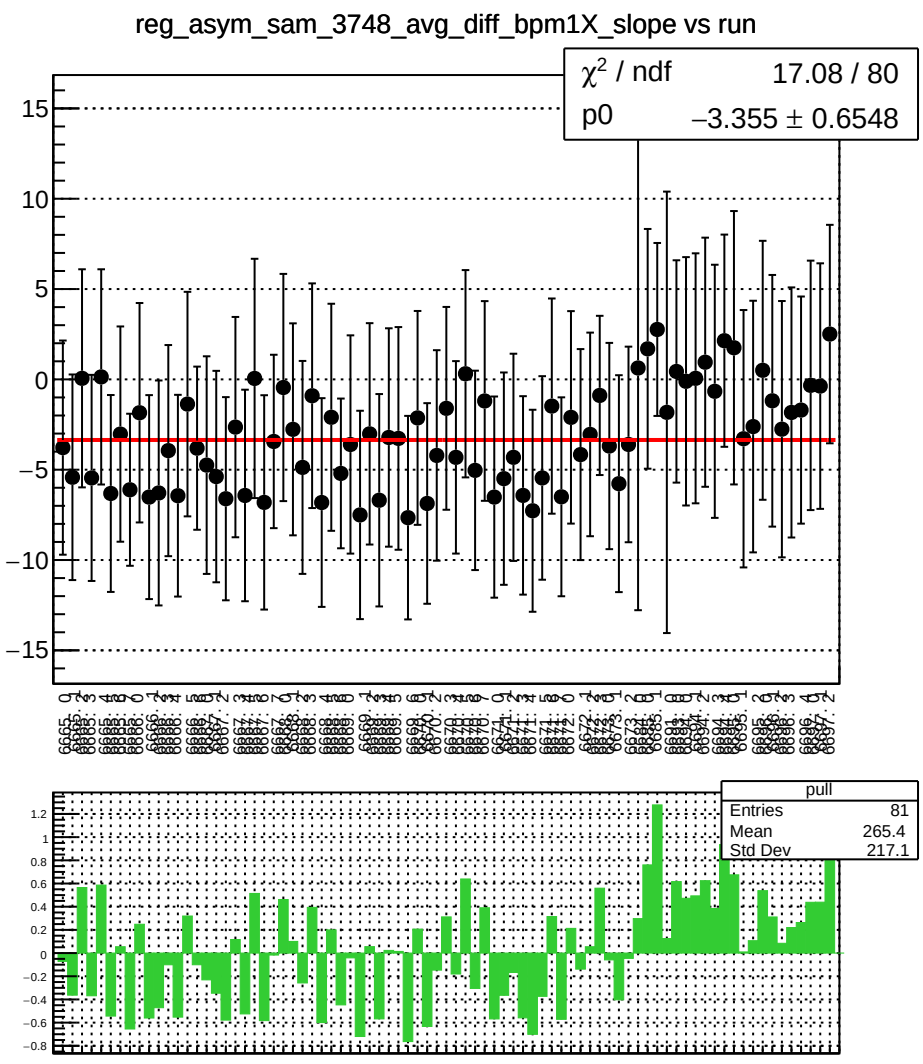

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 12.33 / 80
p0 −42.79 ± 0.6201
pull
Entries 81
Mean −513.4
Std Dev 555.1

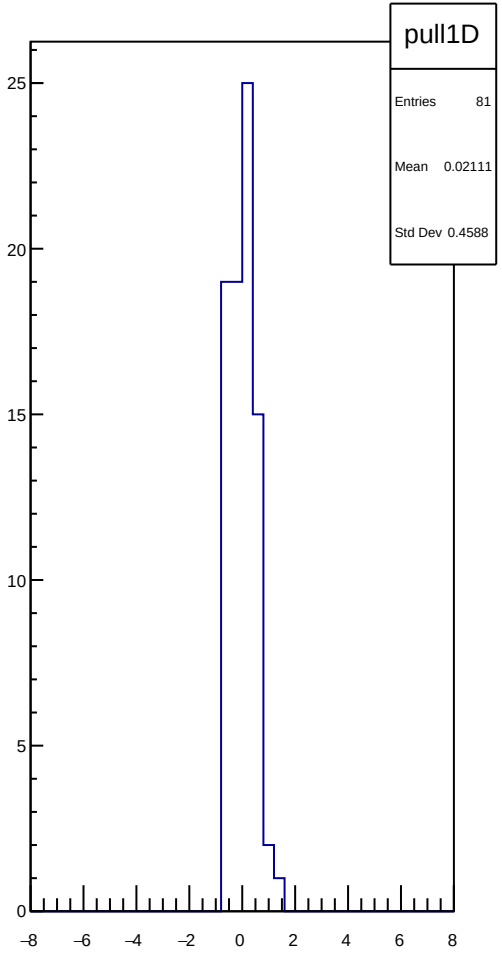

pull1D
Entries 81
Mean 0.003641
Std Dev 0.3901

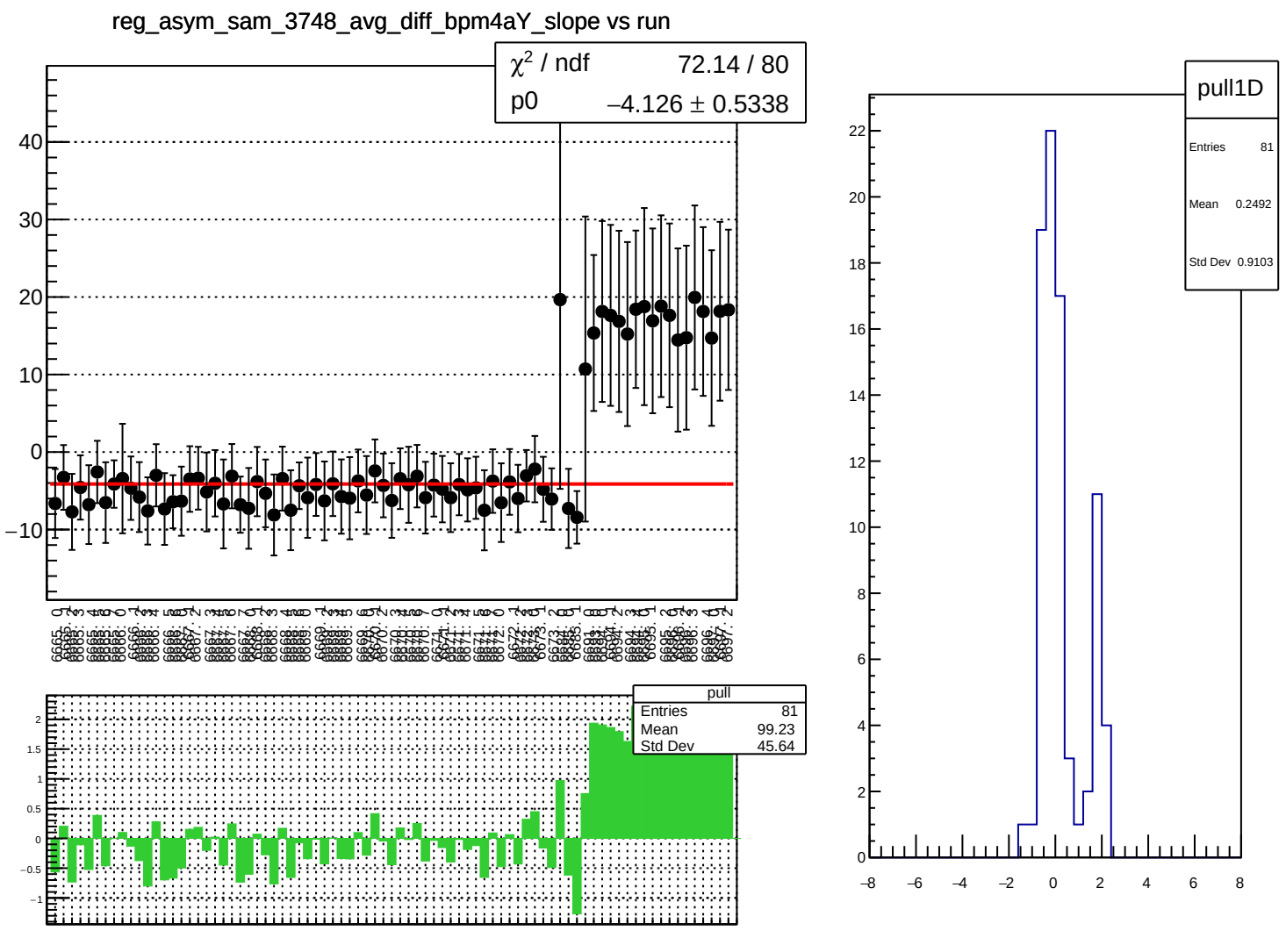

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 156.8 / 80
p0 79.92 ± 0.5554
pull
Entries 81
Mean 112.7
Std Dev 61.01

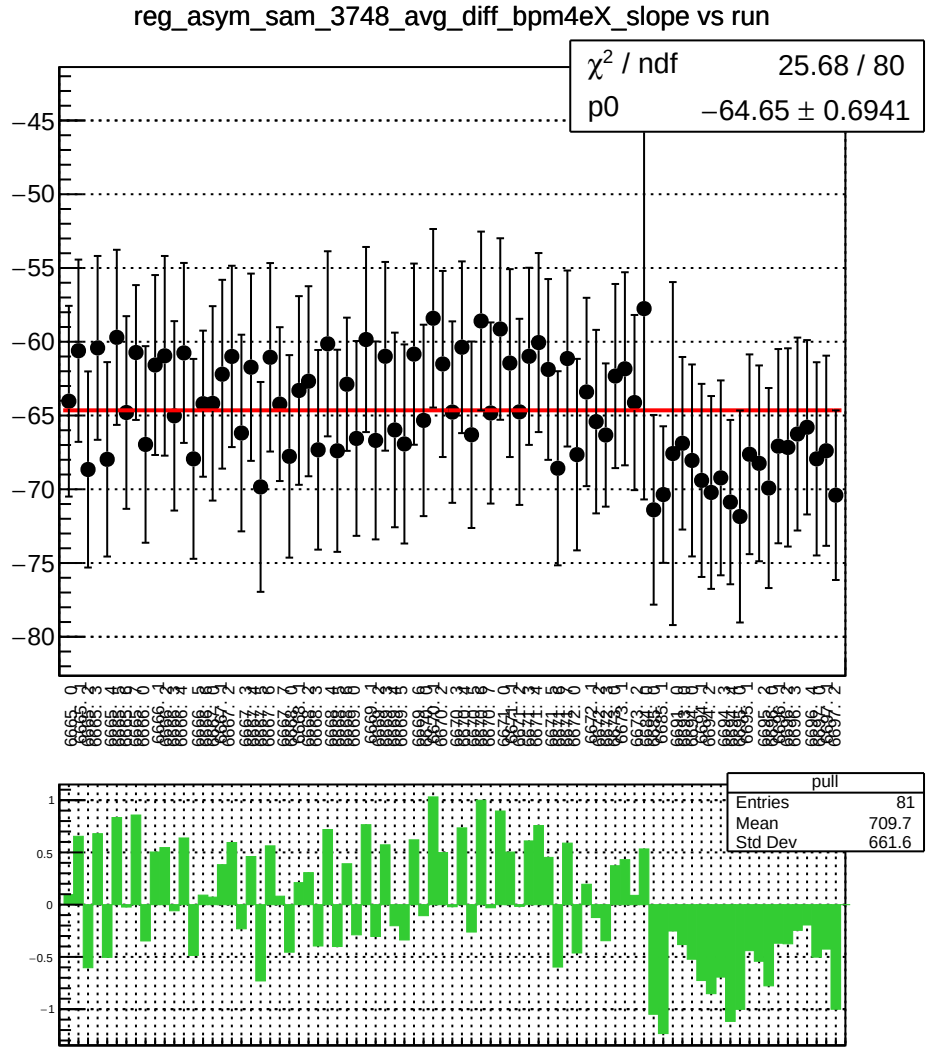

pull1D
Entries 81
Mean −0.2866
Std Dev 1.361

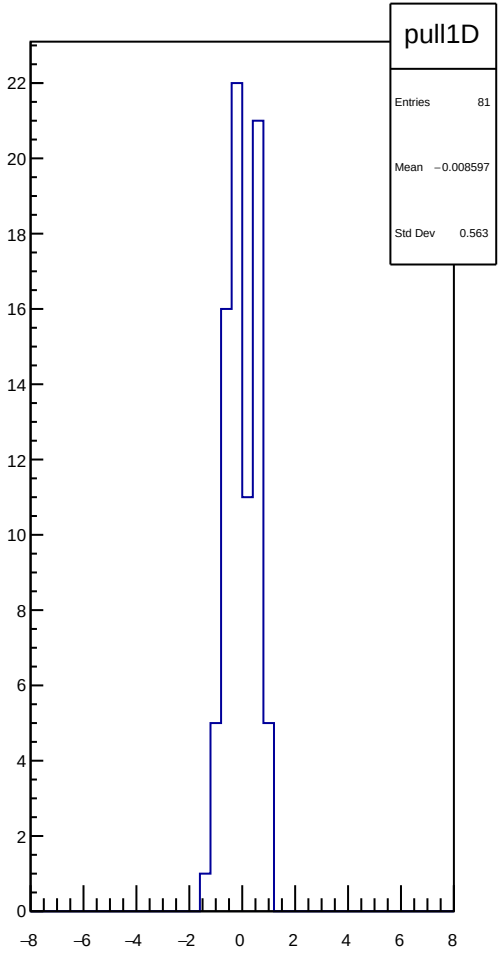

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 134.4 / 80
p0 0.3441± 0.02434
pull
Entries 81
Mean 931.9
Std Dev 884.2
pull1D
Entries 81
Mean −0.02461
Std Dev 1.288

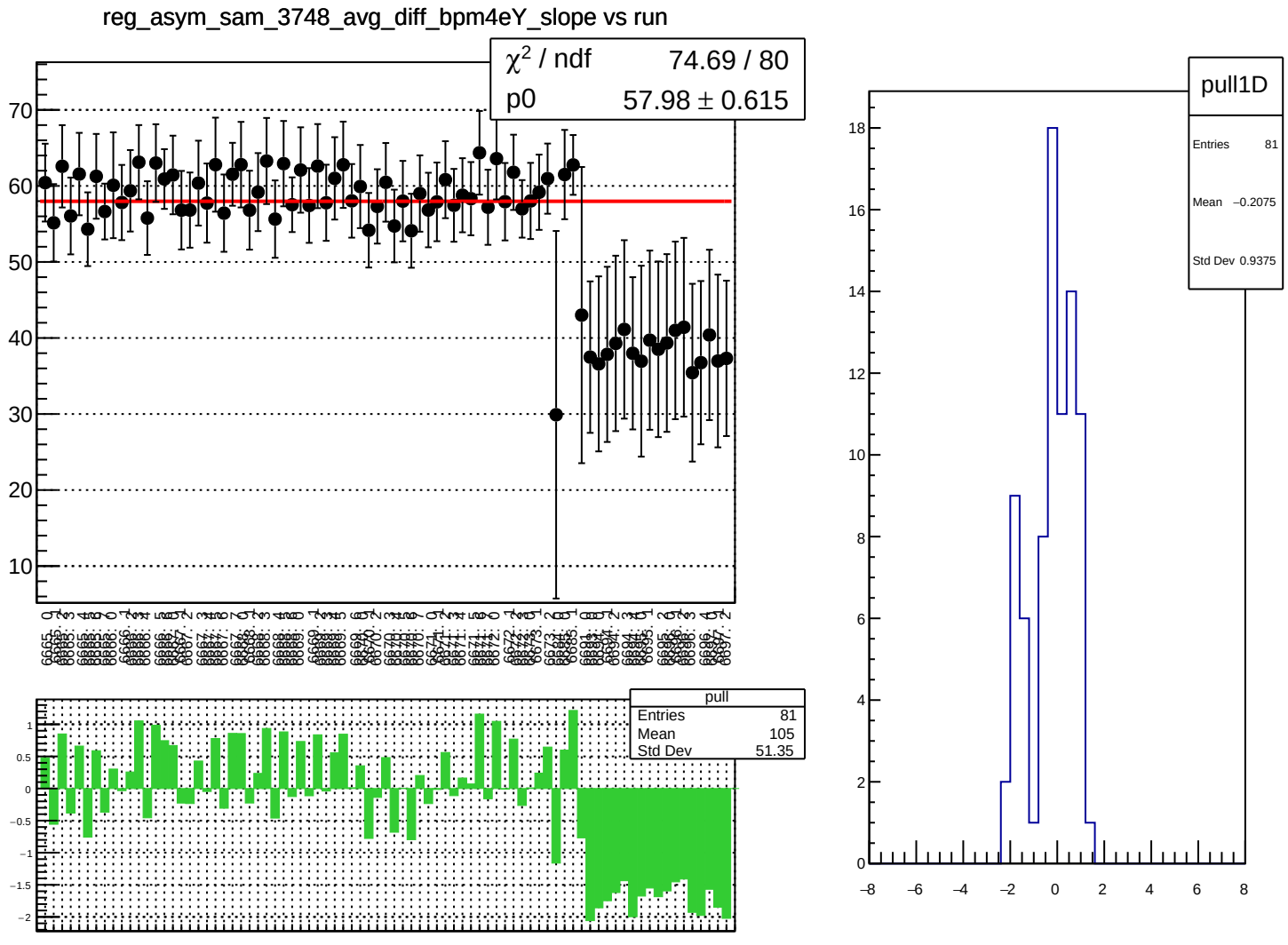

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 17.08 / 80
p0 −3.355 ± 0.6548
pull
Entries 81
Mean 265.4
Std Dev 217.1

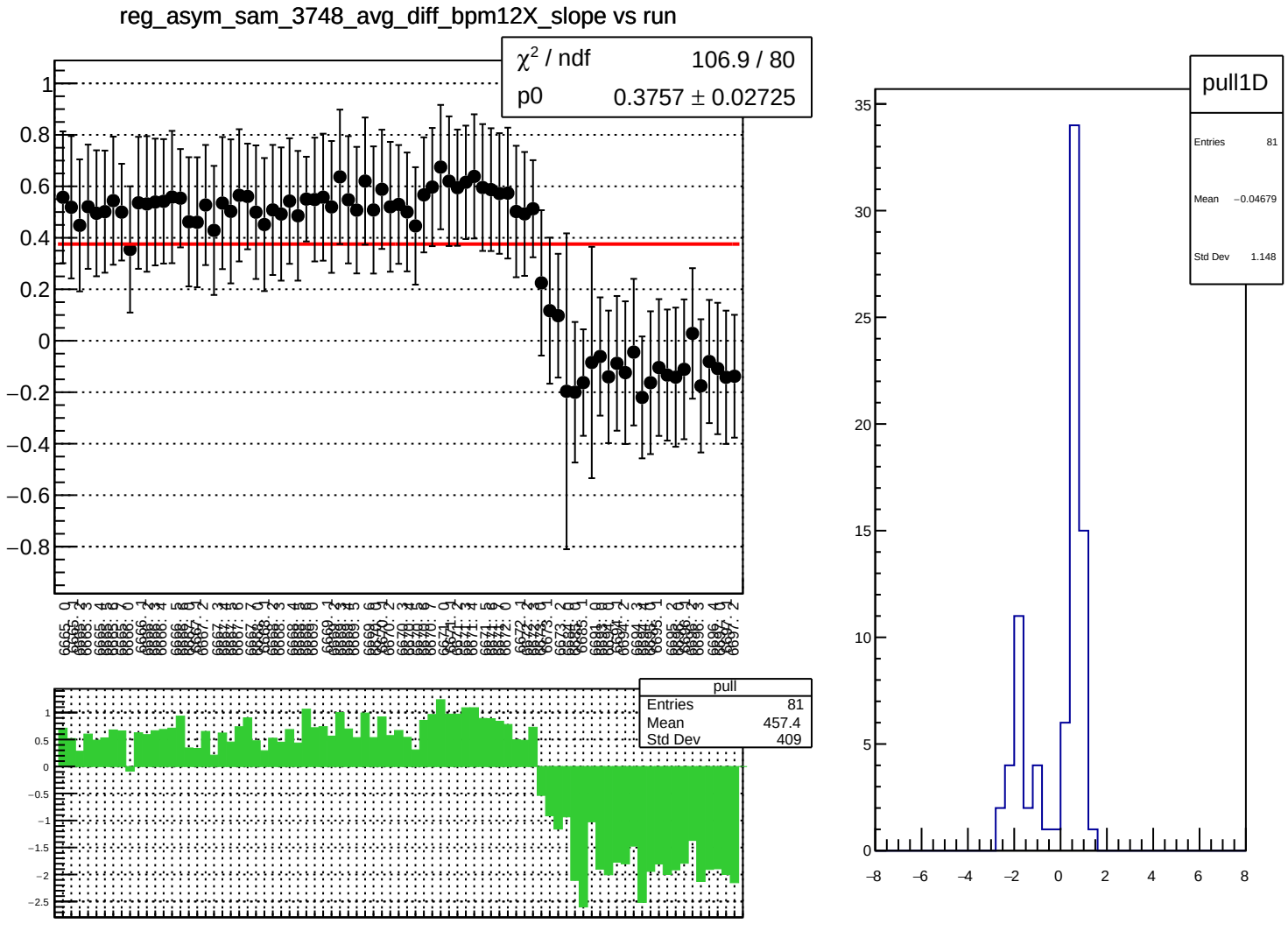

pull1D
Entries 81
Mean 0.02111
Std Dev 0.4588

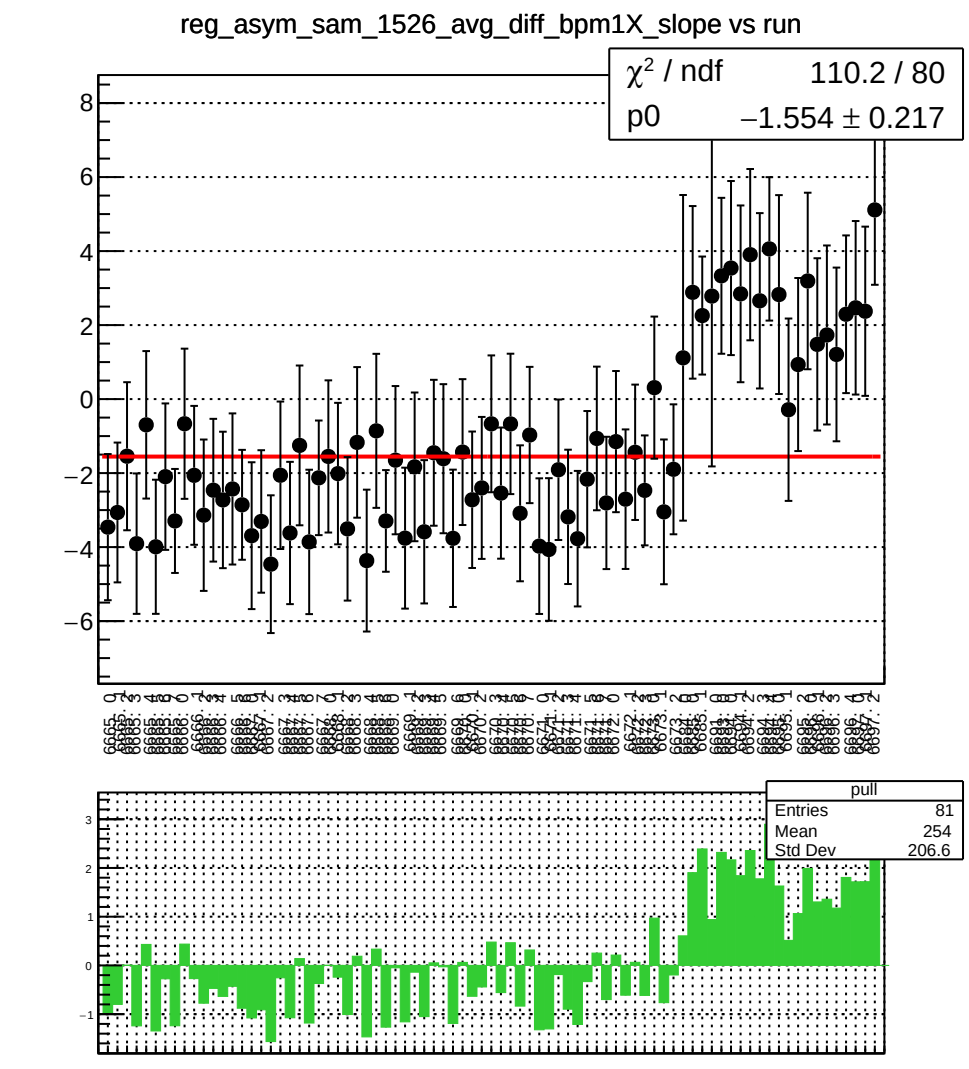

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 72.14 / 80
p0 −4.126 ± 0.5338
pull
Entries 81
Mean 99.23
Std Dev 45.64
pull1D
Entries 81
Mean 0.2492
Std Dev 0.9103

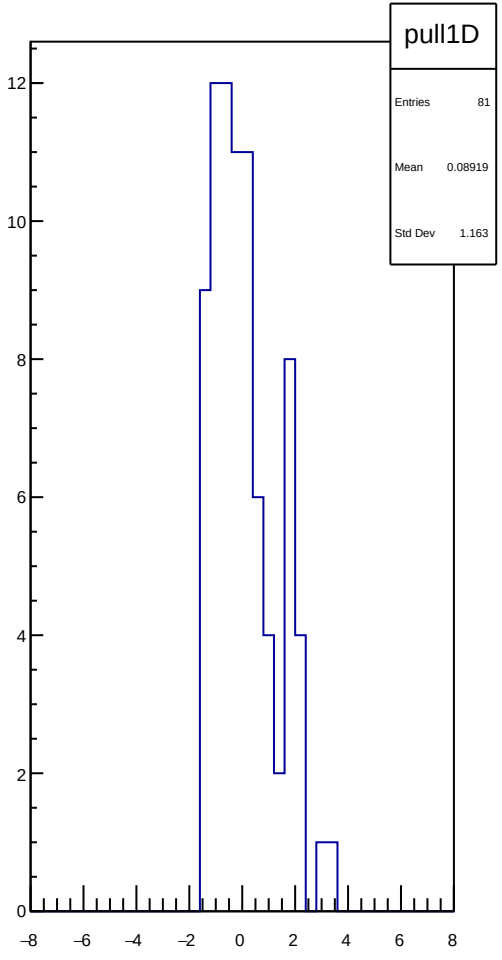

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 25.68 / 80
p0 −64.65 ± 0.6941
pull
Entries 81
Mean 709.7
Std Dev 661.6

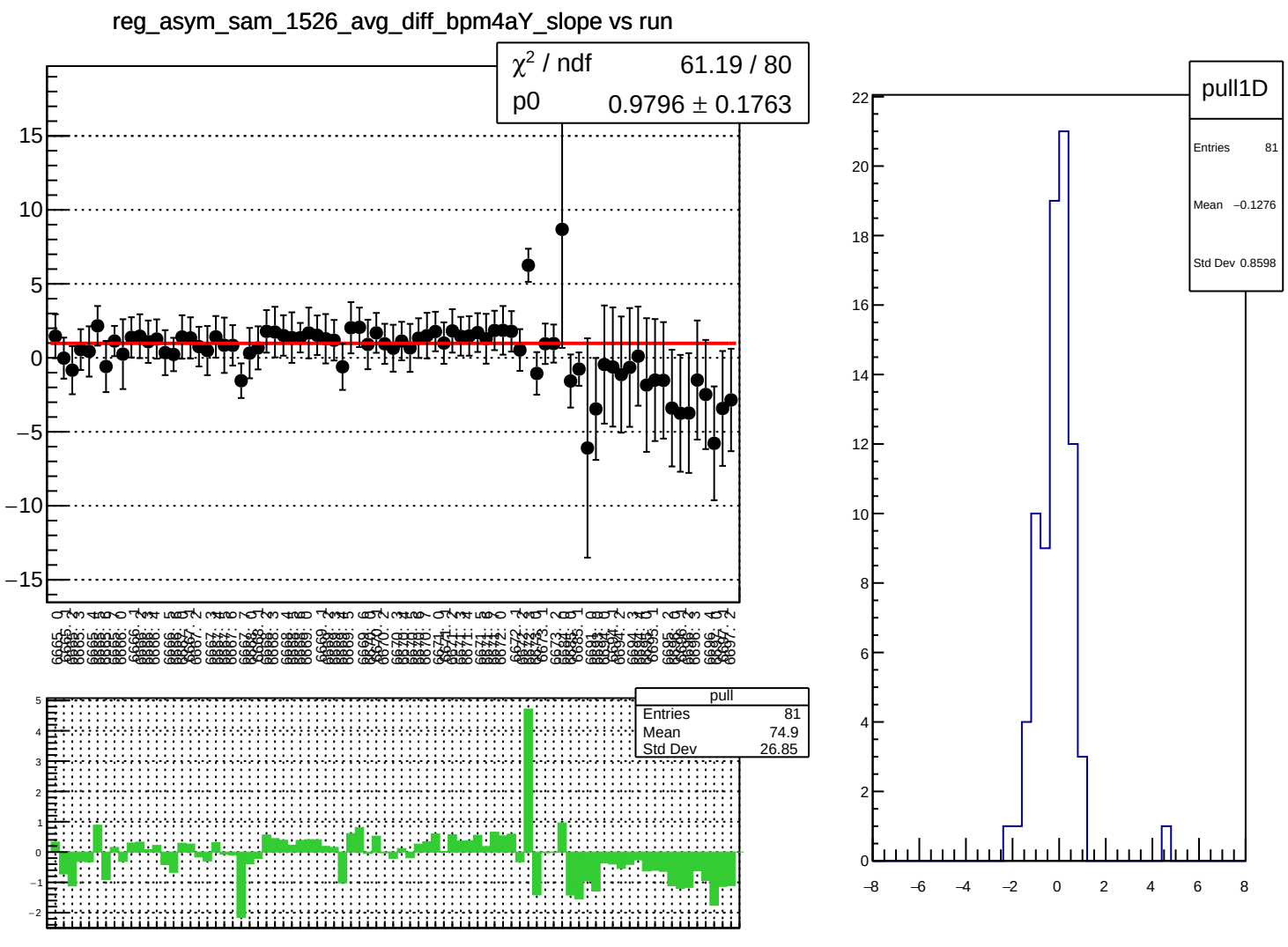

pull1D
Entries 81
Mean −0.008597
Std Dev 0.563

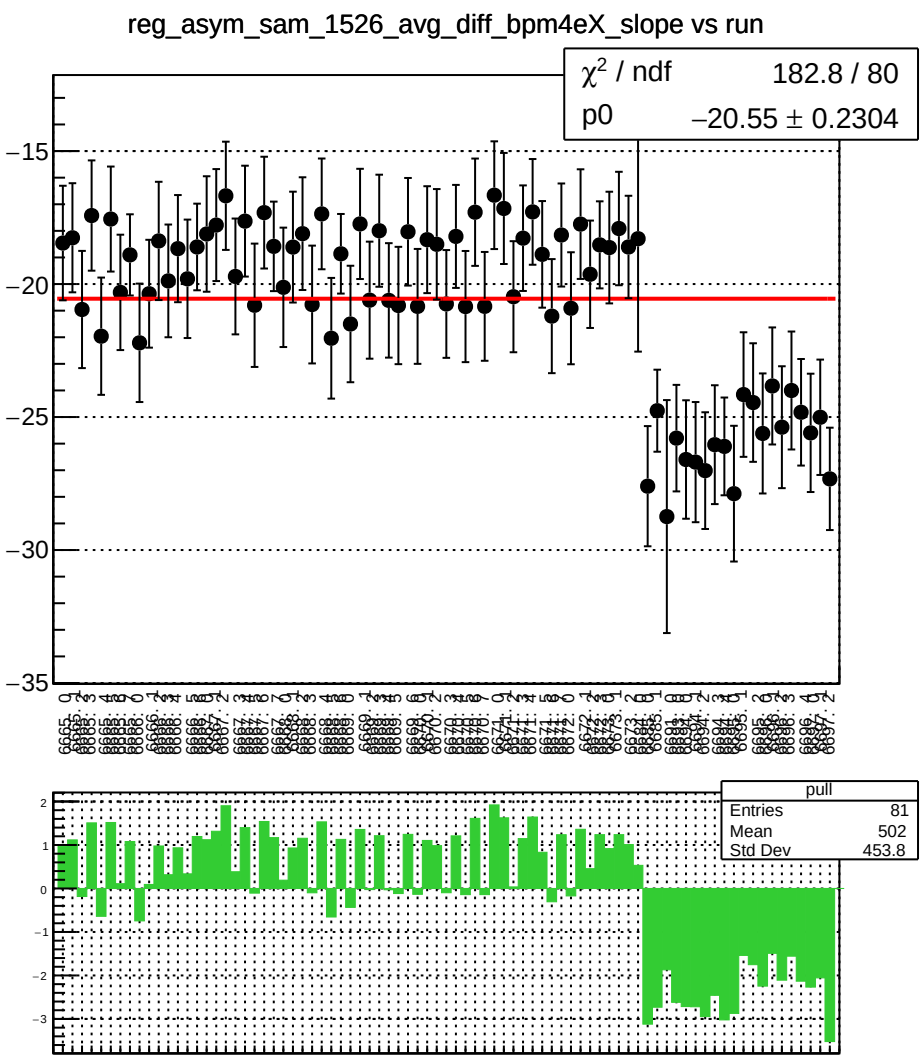

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.69 / 80
p0 57.98 ± 0.615
pull
Entries 81
Mean 105
Std Dev 51.35
pull1D
Entries 81
Mean −0.2075
Std Dev 0.9375

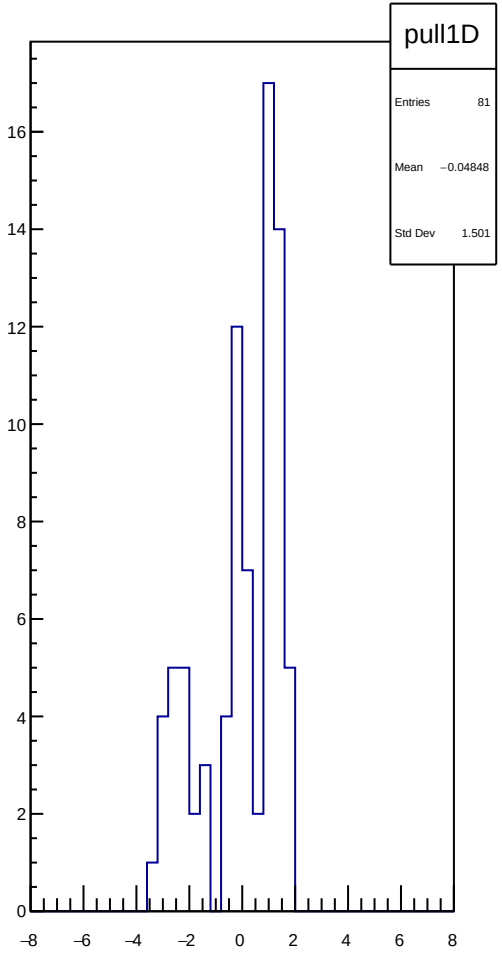

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 106.9 / 80
p0 0.3757 ± 0.02725
pull
Entries 81
Mean 457.4
Std Dev 409
pull1D
Entries 81
Mean −0.04679
Std Dev 1.148

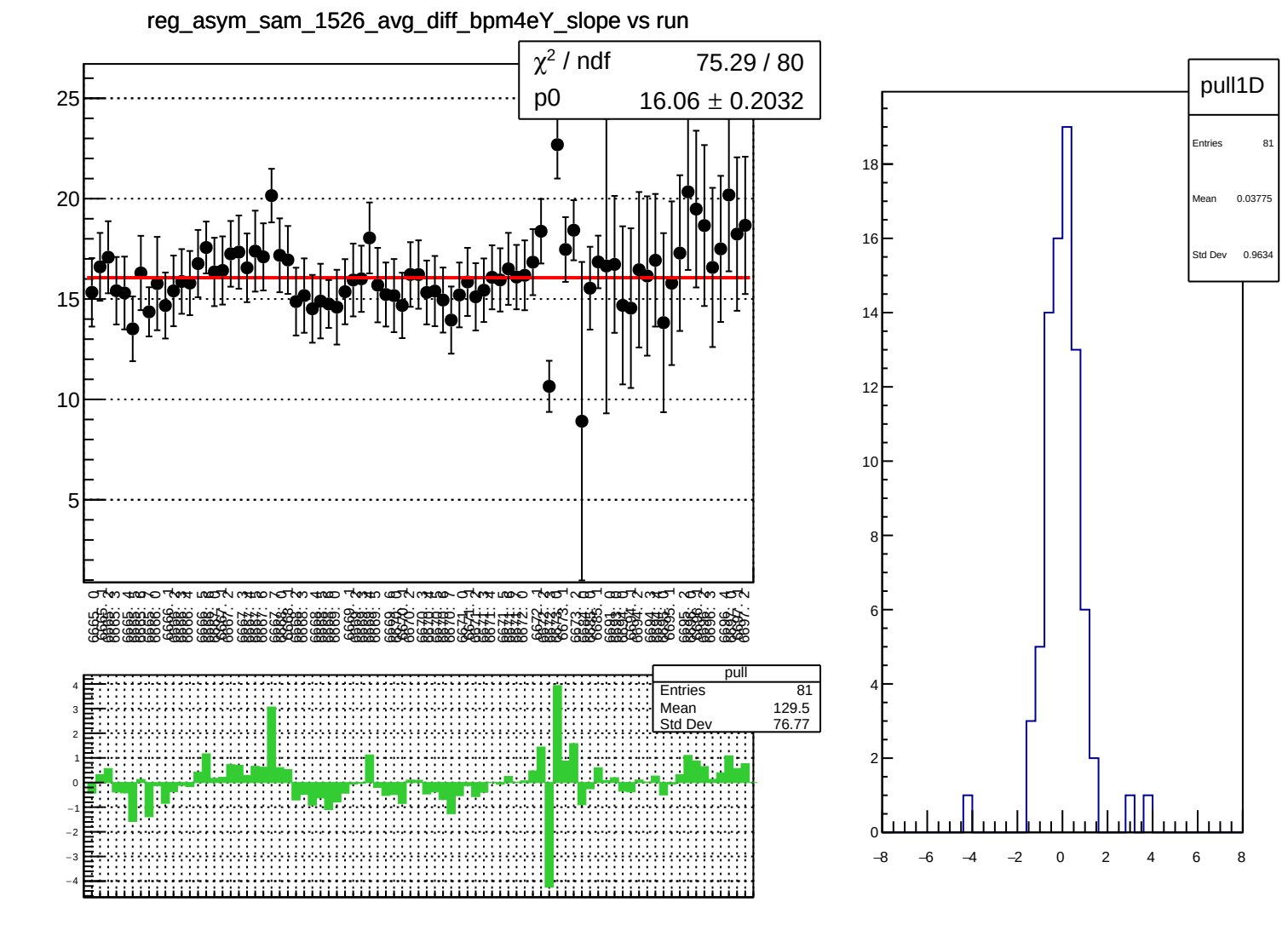

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 110.2 / 80
p0 −1.554 ± 0.217
pull
Entries 81
Mean 254
Std Dev 206.6

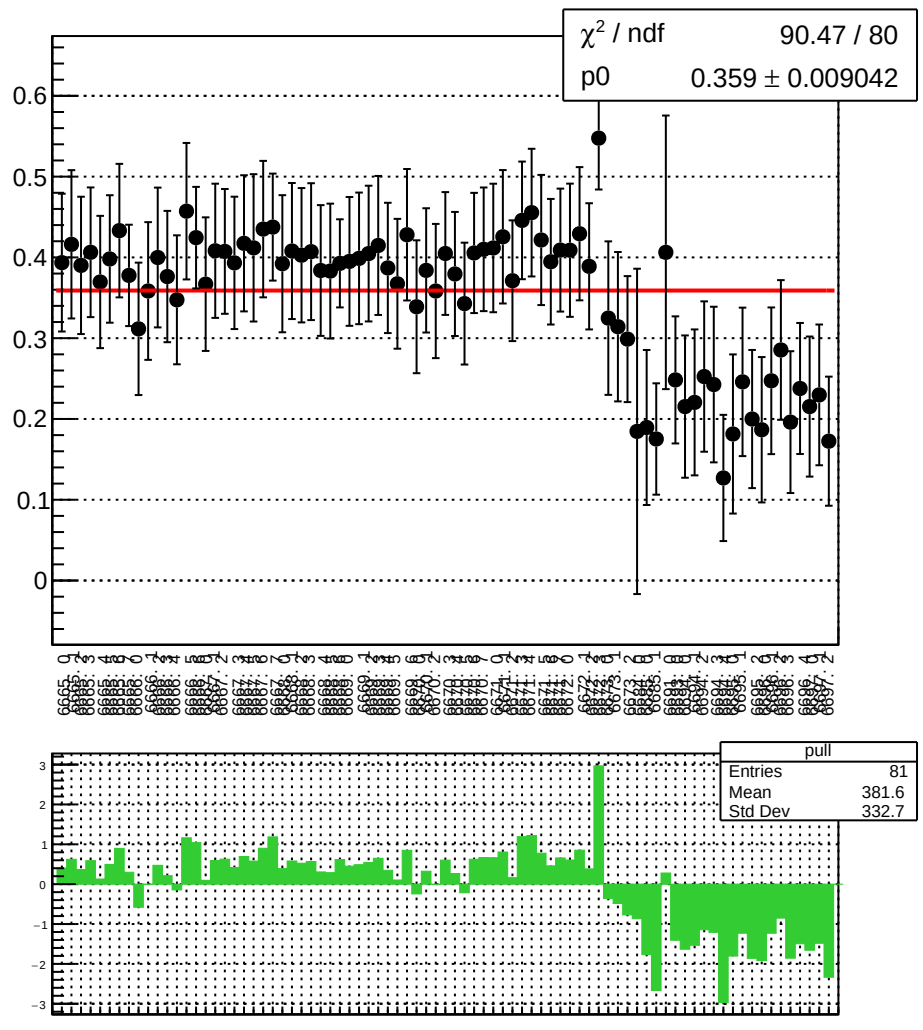

pull1D
Entries 81
Mean 0.08919
Std Dev 1.163

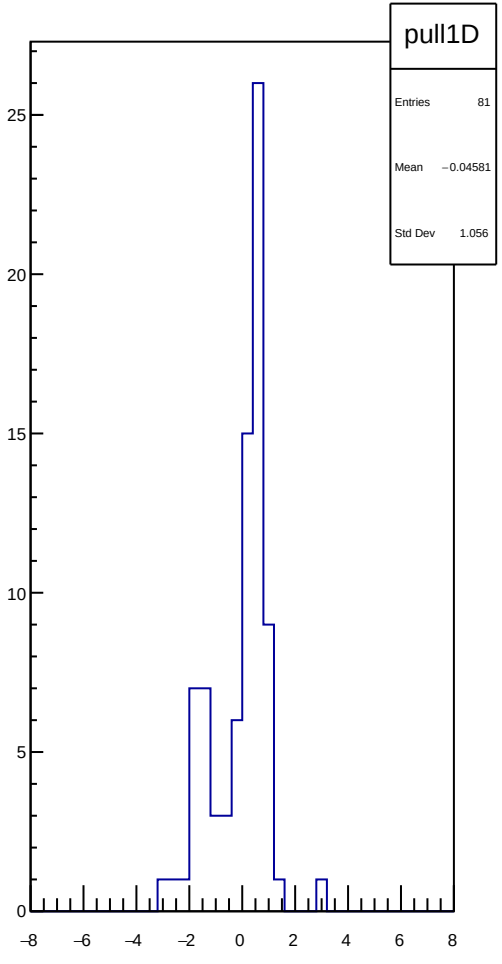

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 61.19 / 80
p0 0.9796 ± 0.1763
pull
Entries 81
Mean 74.9
Std Dev 26.85
pull1D
Entries 81
Mean −0.1276
Std Dev 0.8598

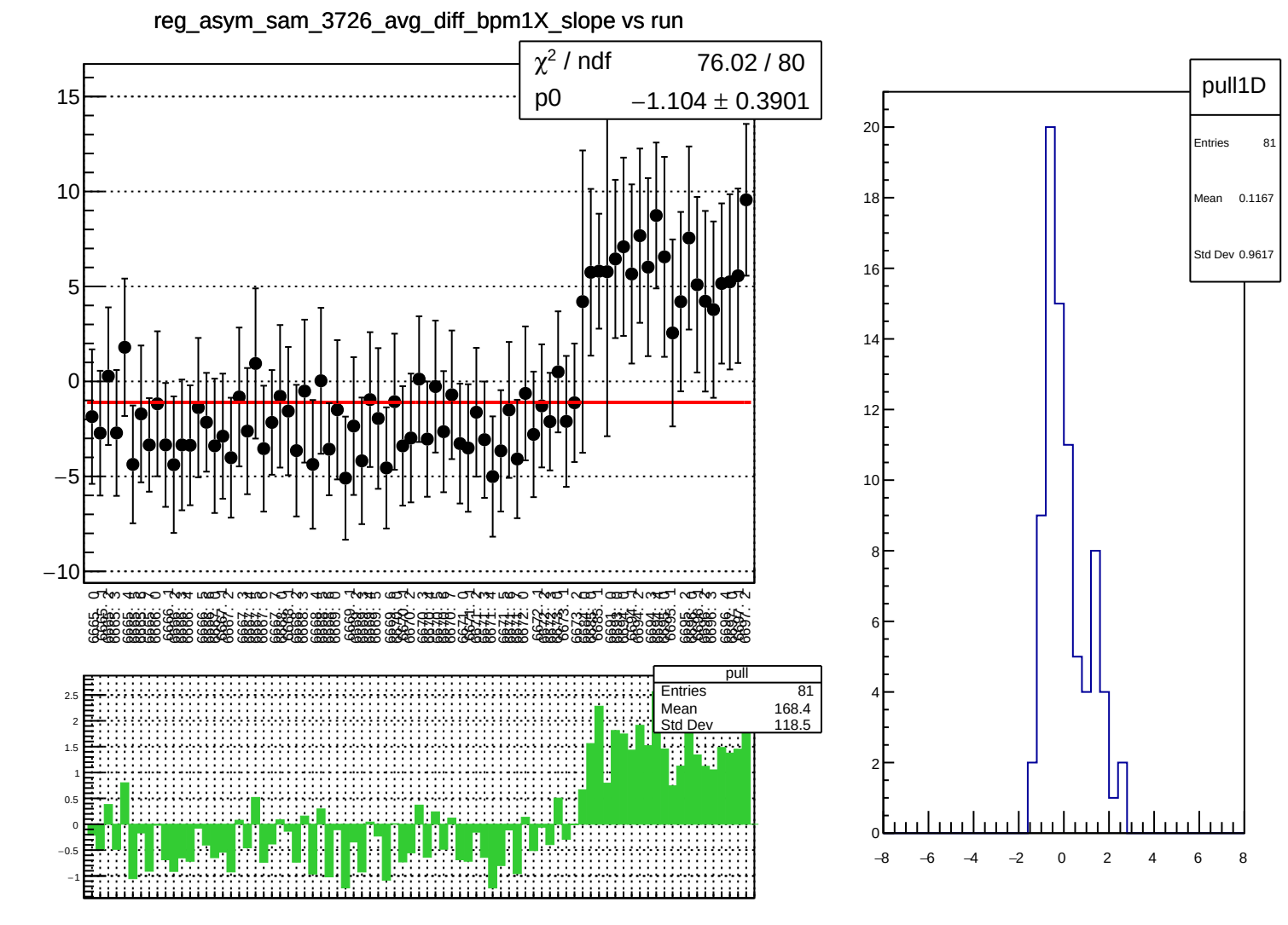

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 182.8 / 80
p0 −20.55 ± 0.2304
pull
Entries 81
Mean 502
Std Dev 453.8

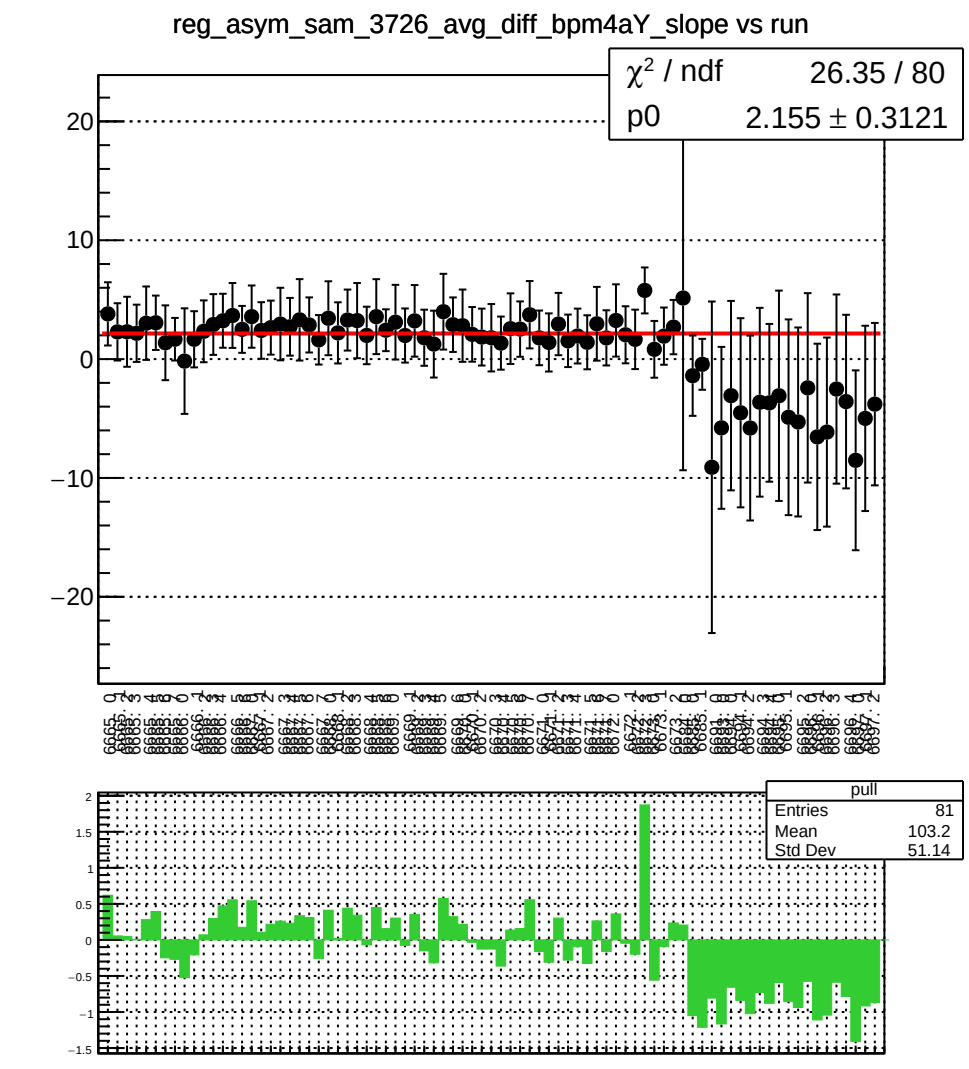

pull1D
Entries 81
Mean −0.04848
Std Dev 1.501

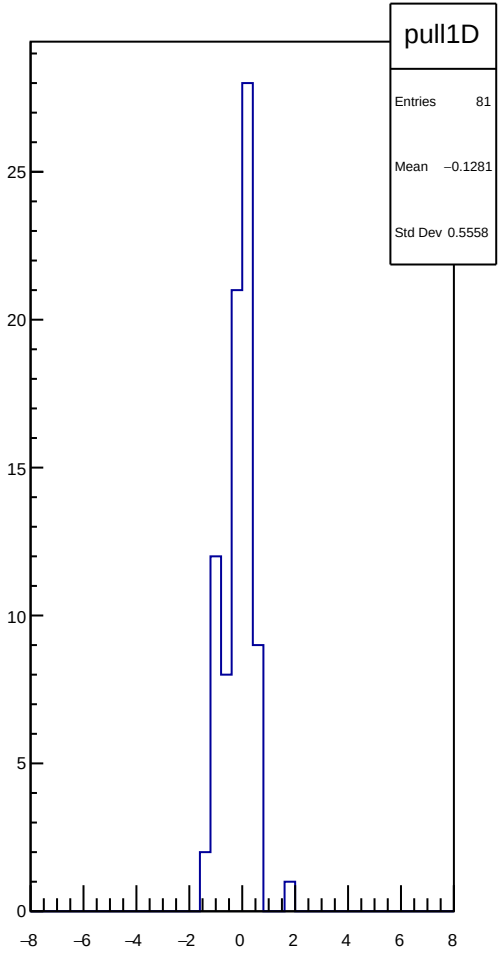

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 75.29 / 80
p0 16.06 ± 0.2032
pull
Entries 81
Mean 129.5
Std Dev 76.77
pull1D
Entries 81
Mean 0.03775
Std Dev 0.9634

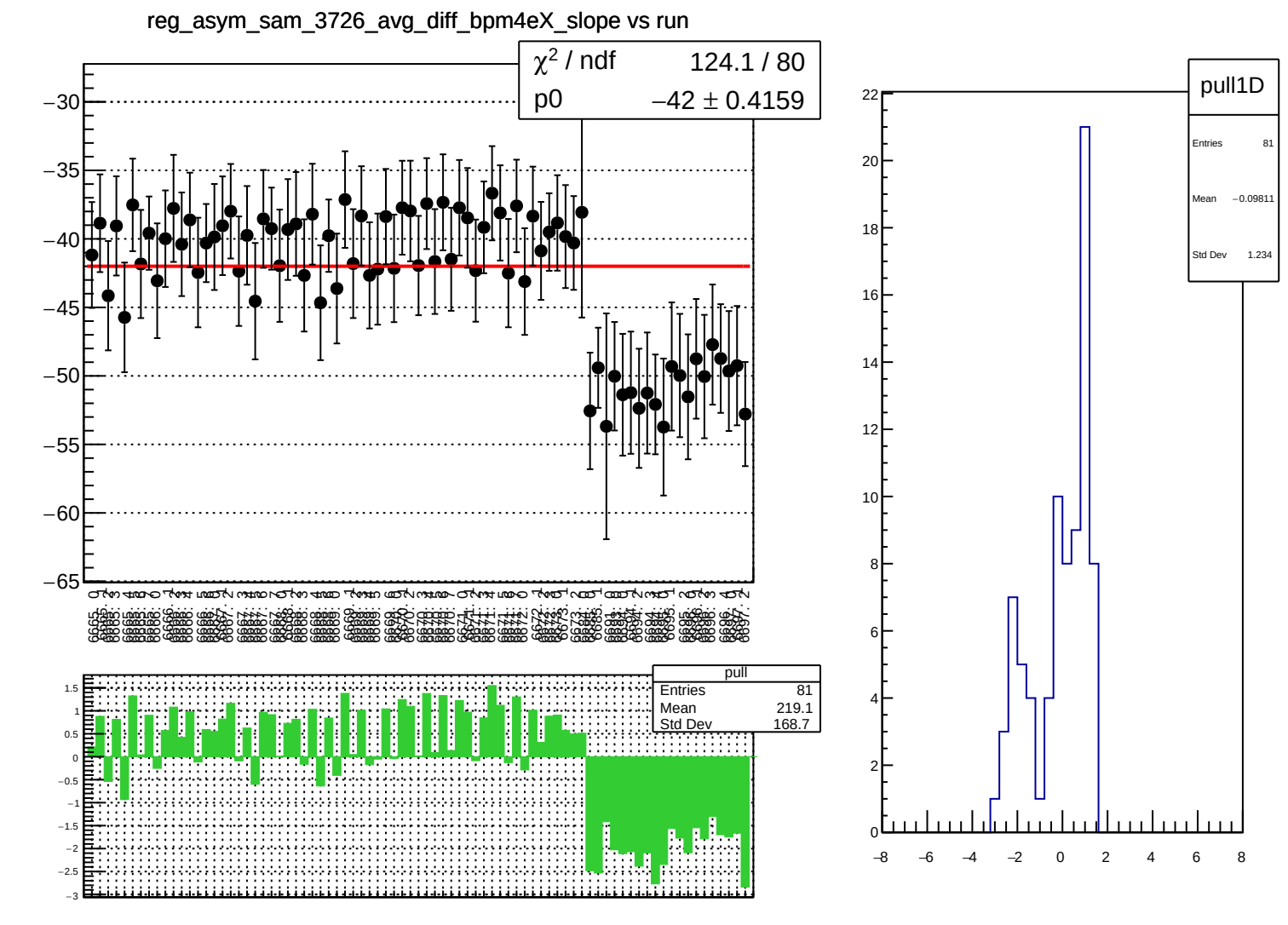

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 90.47 / 80
p0 0.359 ± 0.009042
pull
Entries 81
Mean 381.6
Std Dev 332.7

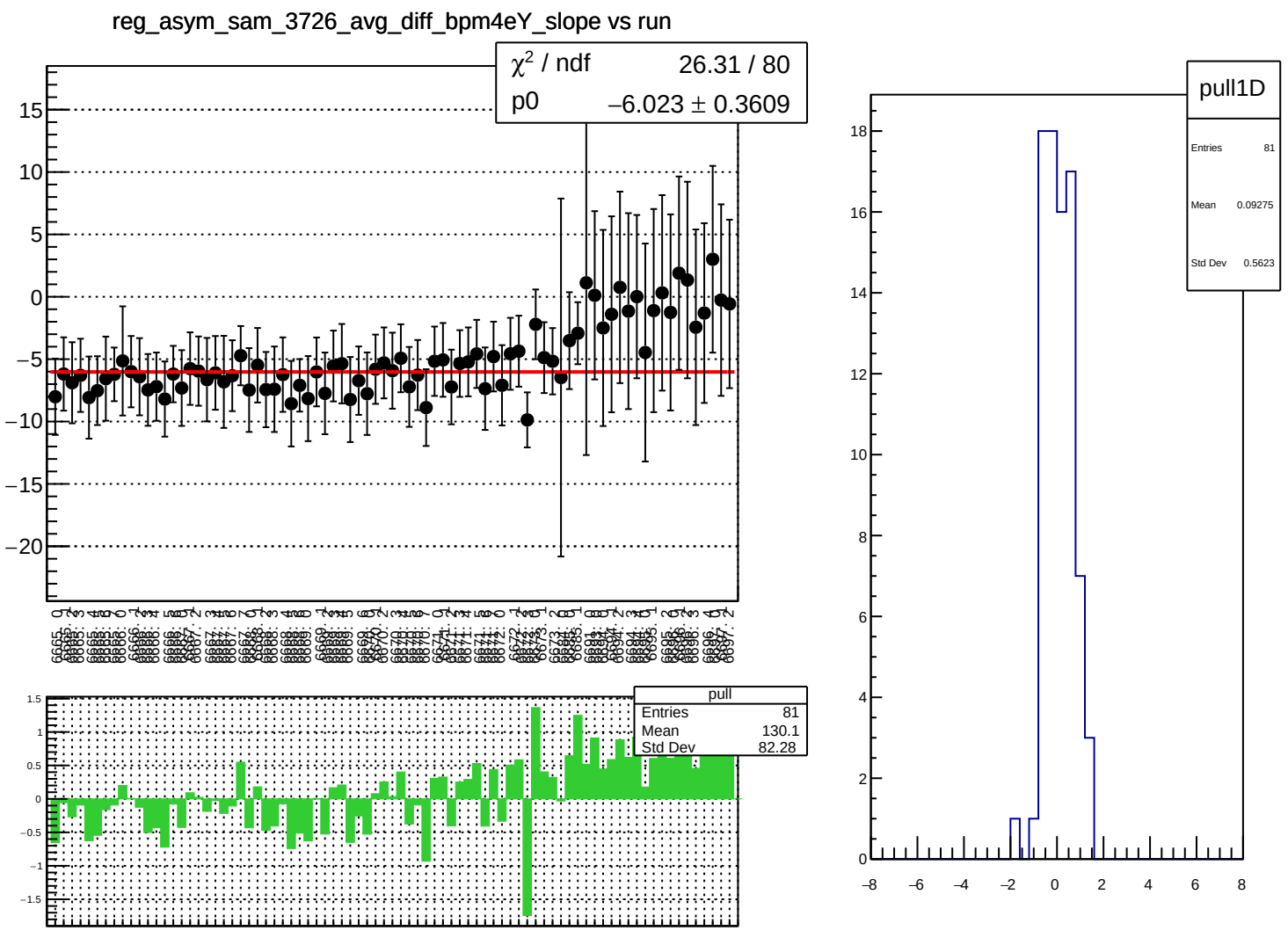

pull1D
Entries 81
Mean −0.04581
Std Dev 1.056

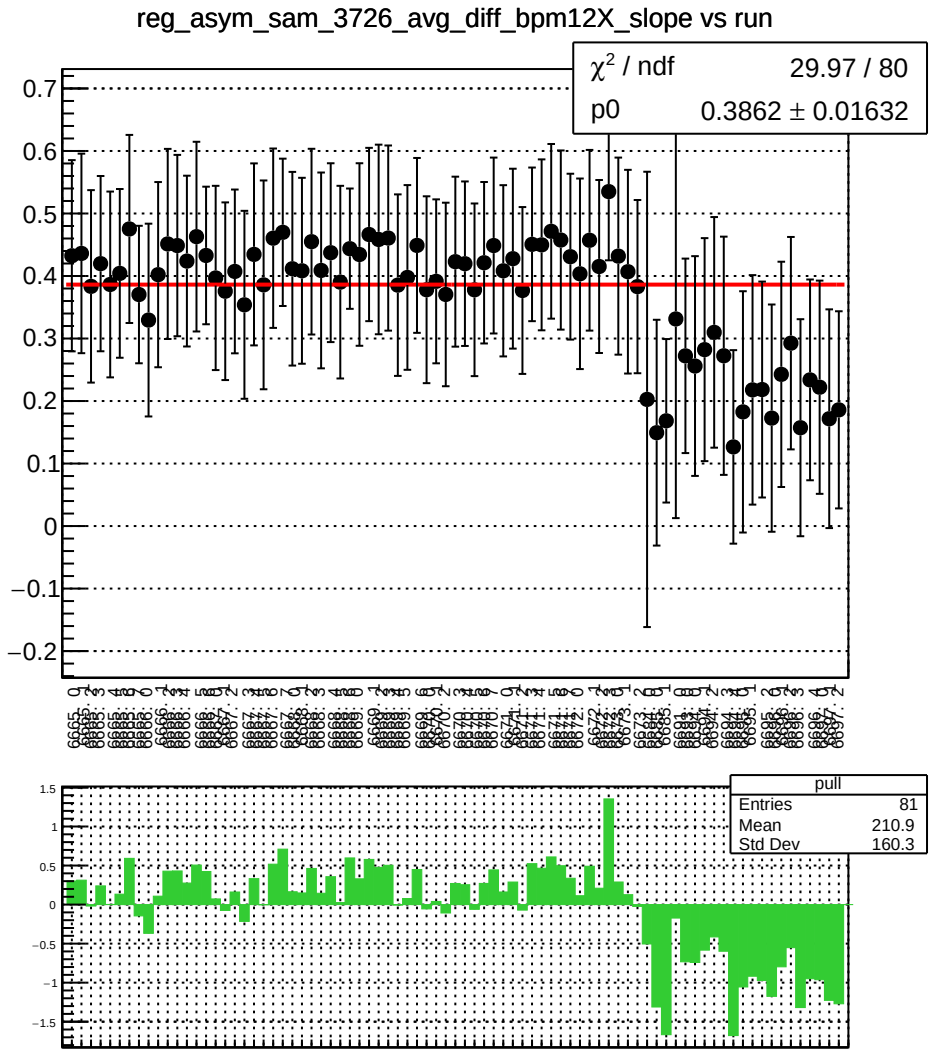

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 76.02 / 80
p0 −1.104 ± 0.3901
pull
Entries 81
Mean 168.4
Std Dev 118.5
pull1D
Entries 81
Mean 0.1167
Std Dev 0.9617

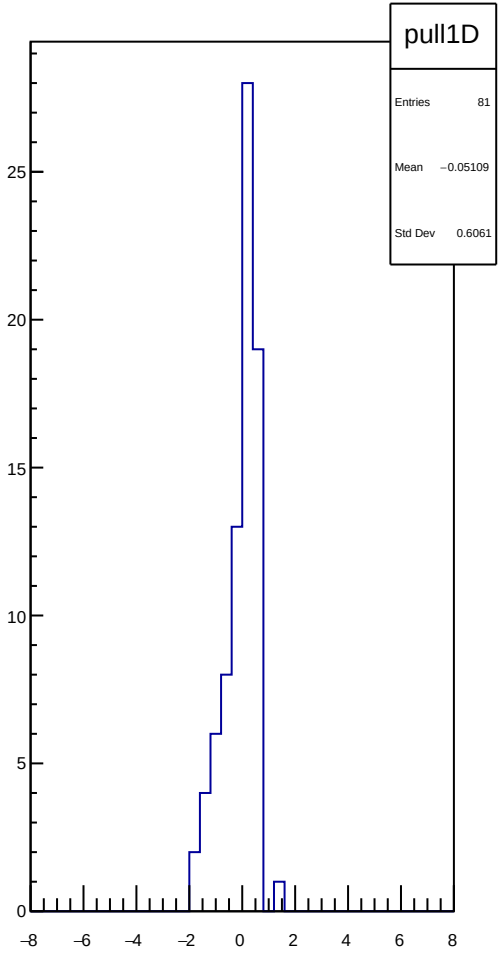

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.35 / 80
p0 2.155 ± 0.3121
pull
Entries 81
Mean 103.2
Std Dev 51.14

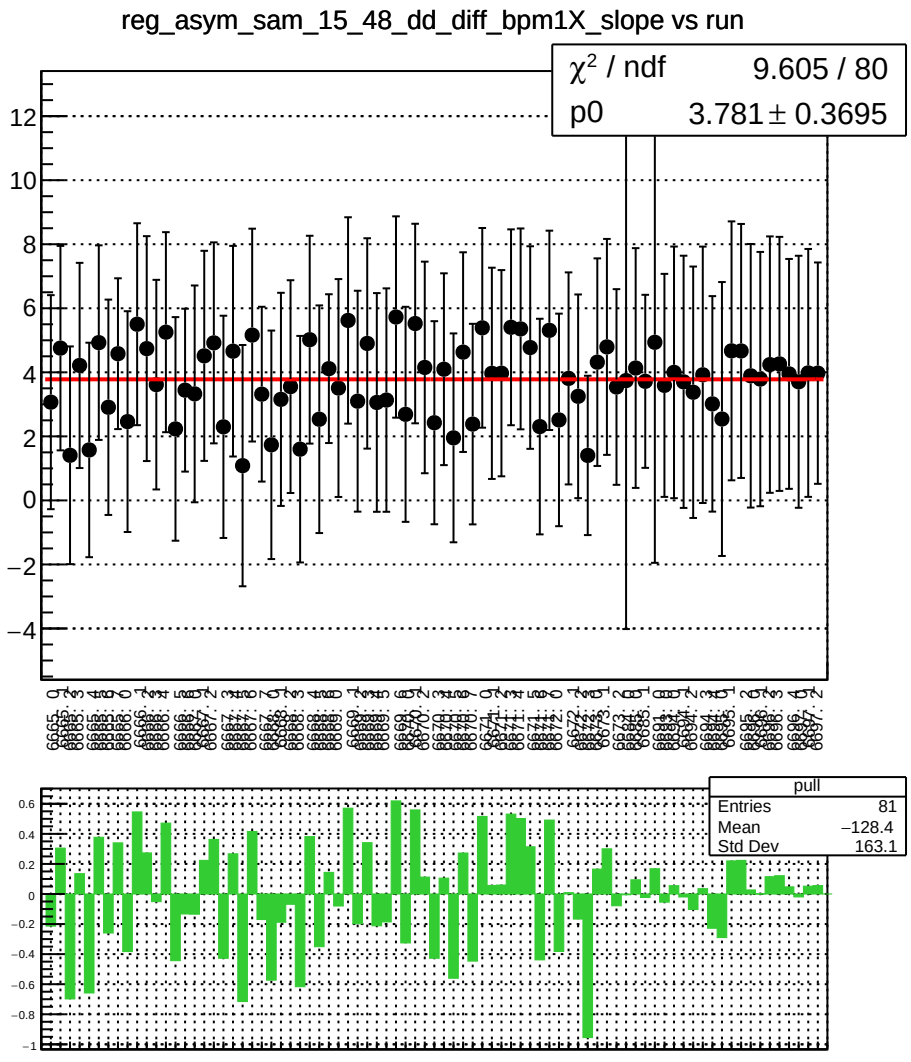

pull1D
Entries 81
Mean −0.1281
Std Dev 0.5558

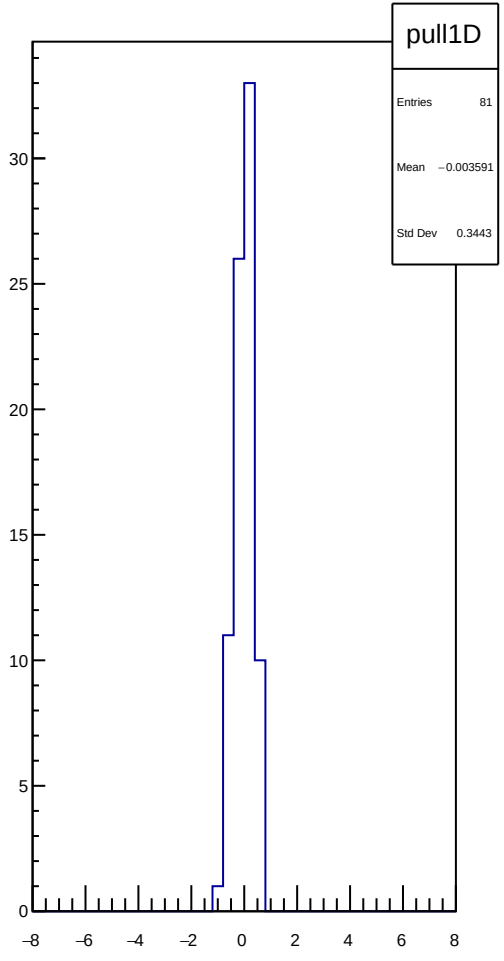

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 124.1 / 80
p0 −42 ± 0.4159
pull
Entries 81
Mean 219.1
Std Dev 168.7
pull1D
Entries 81
Mean −0.09811
Std Dev 1.234

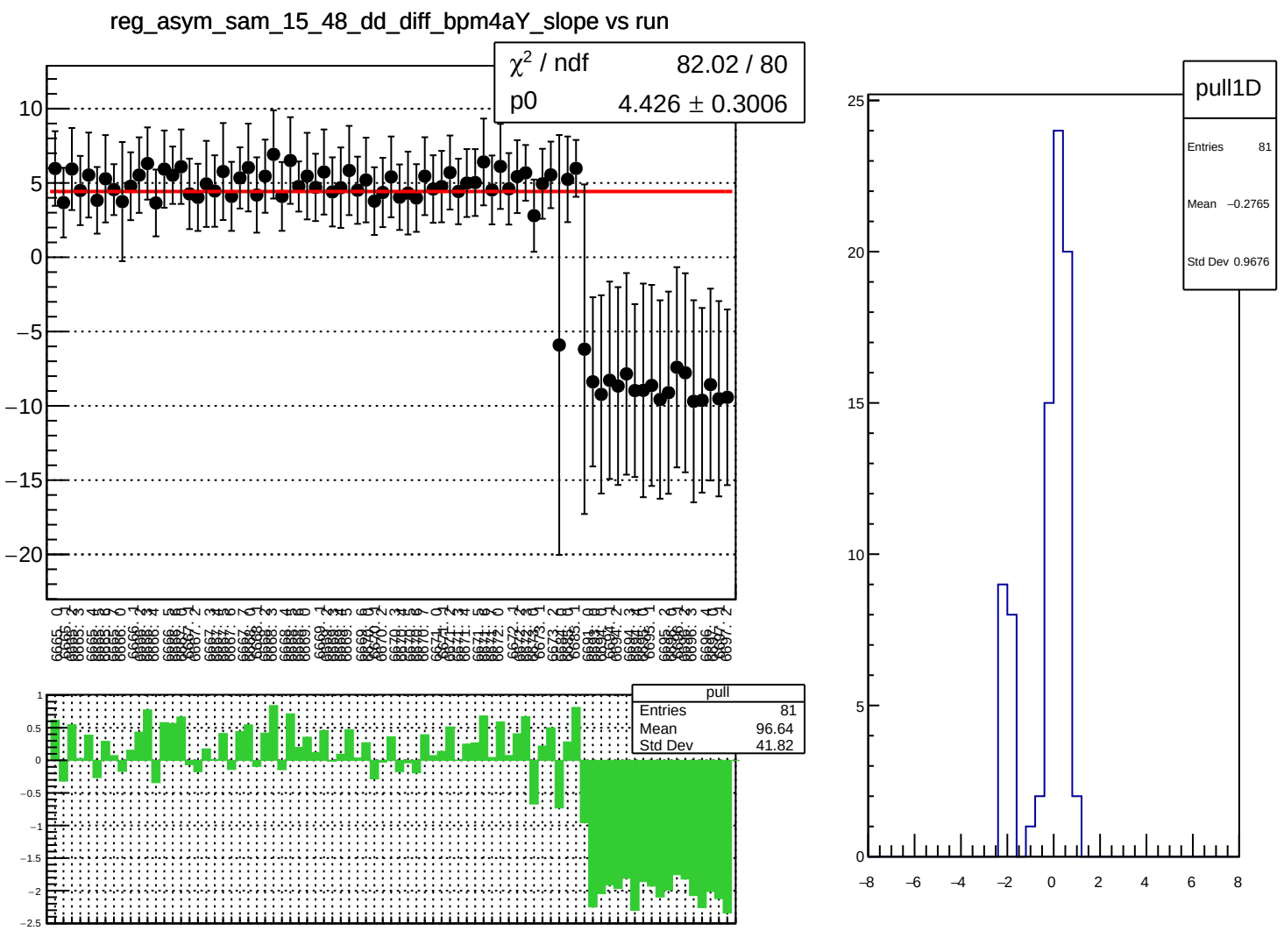

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 26.31 / 80
p0 −6.023 ± 0.3609
pull
Entries 81
Mean 130.1
Std Dev 82.28
pull1D
Entries 81
Mean 0.09275
Std Dev 0.5623

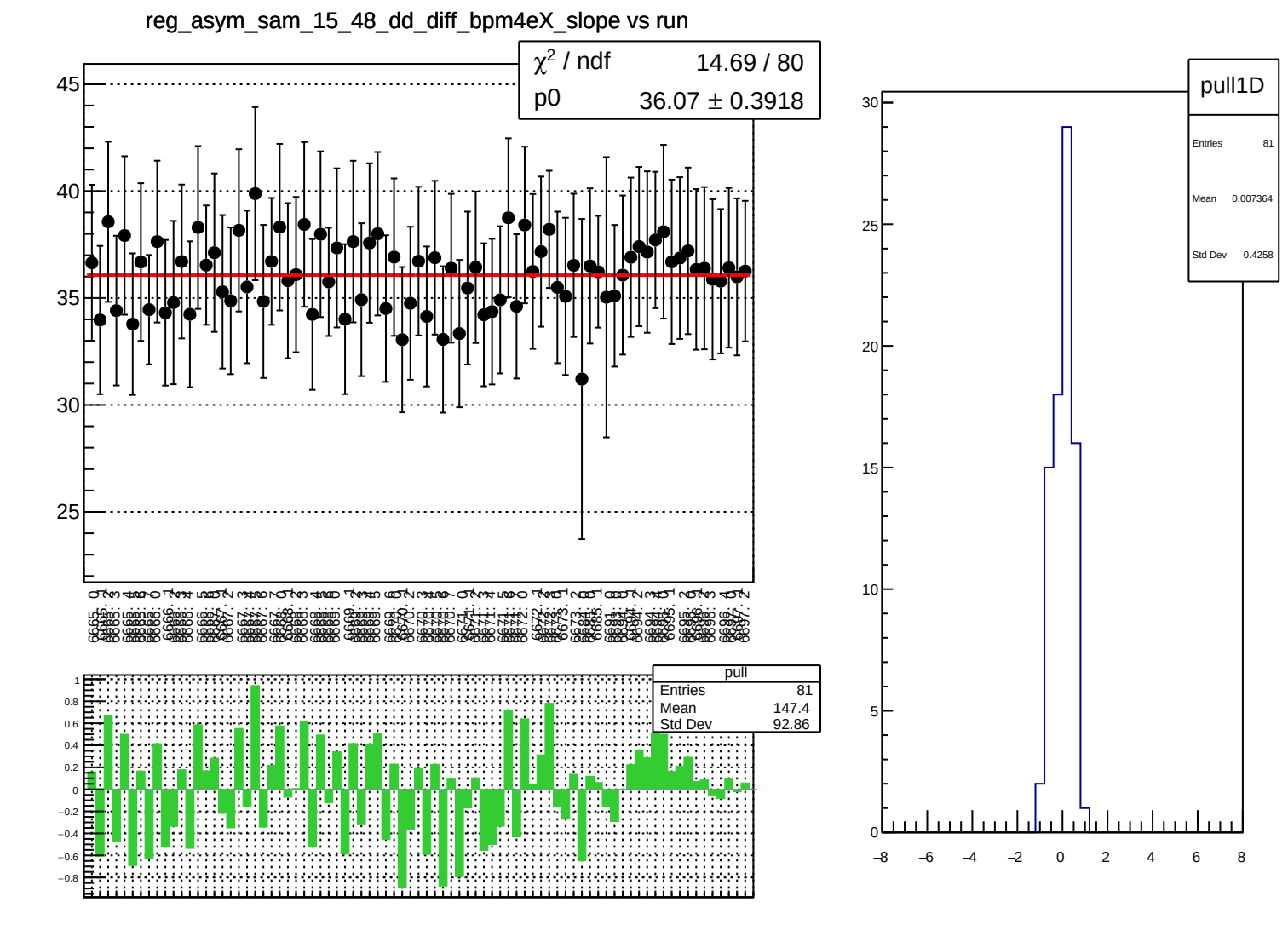

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 29.97 / 80
p0 0.3862 ± 0.01632
pull
Entries 81
Mean 210.9
Std Dev 160.3

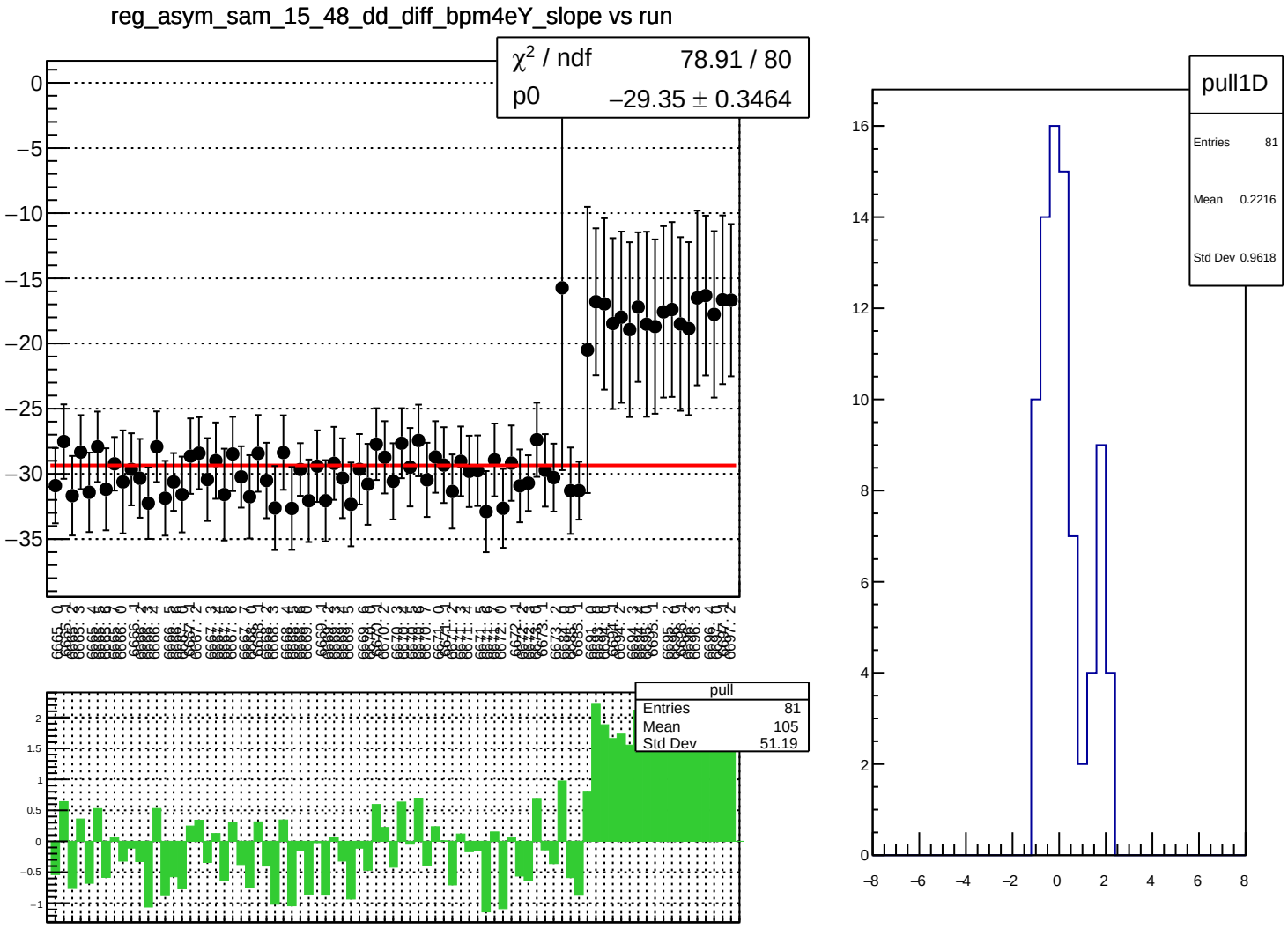

pull1D
Entries 81
Mean −0.05109
Std Dev 0.6061

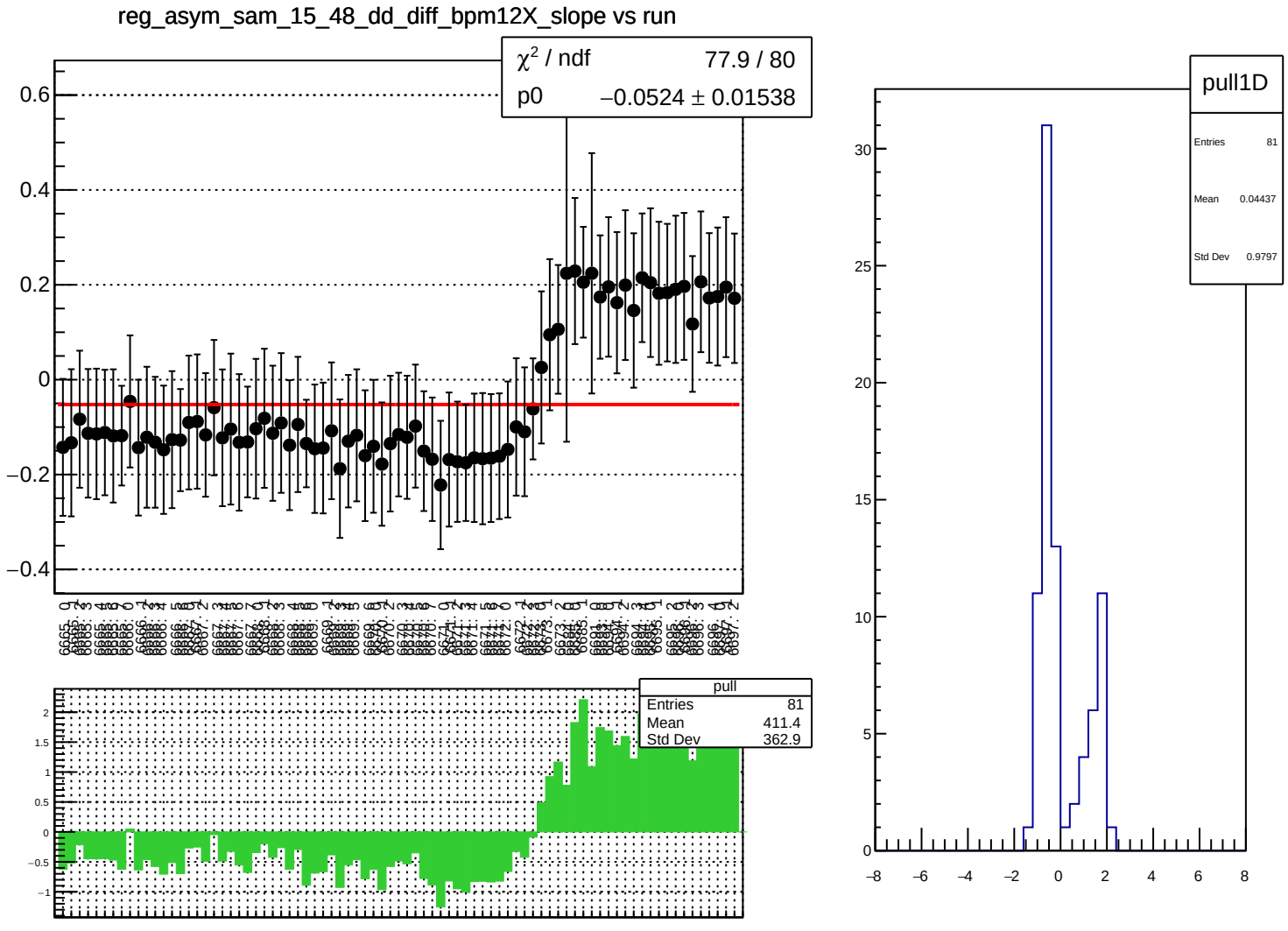

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 9.605 / 80
p0 3.781 ± 0.3695
pull
Entries 81
Mean −128.4
Std Dev 163.1

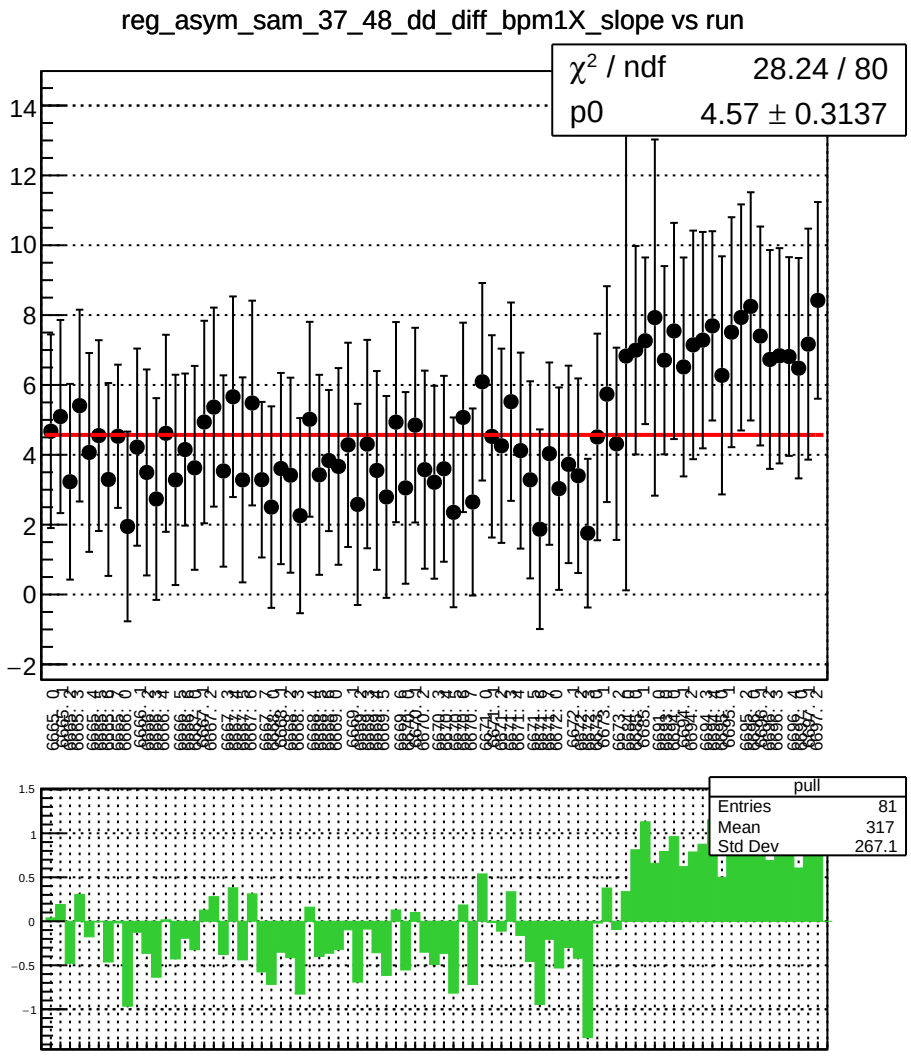

pull1D
Entries 81
Mean −0.003591
Std Dev 0.3443

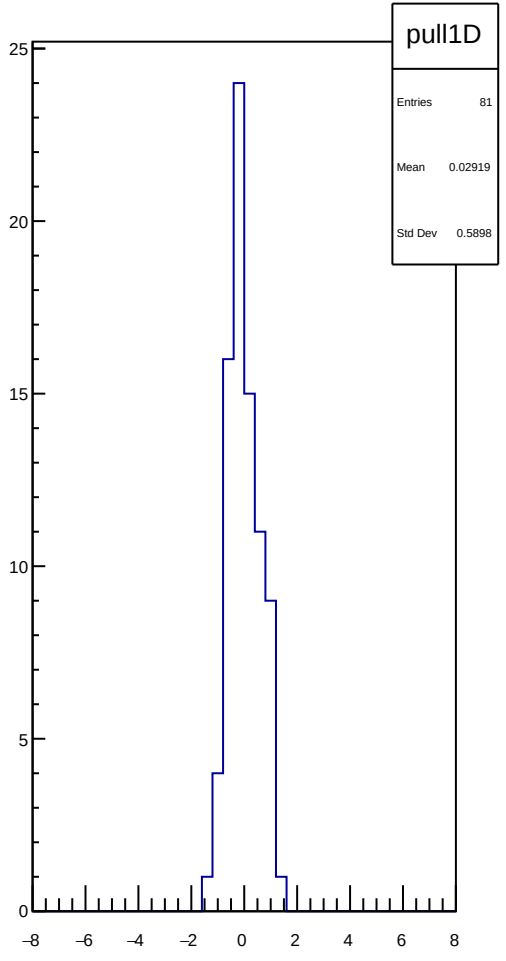

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 82.02 / 80
p0 4.426 ± 0.3006
pull
Entries 81
Mean 96.64
Std Dev 41.82
pull1D
Entries 81
Mean −0.2765
Std Dev 0.9676

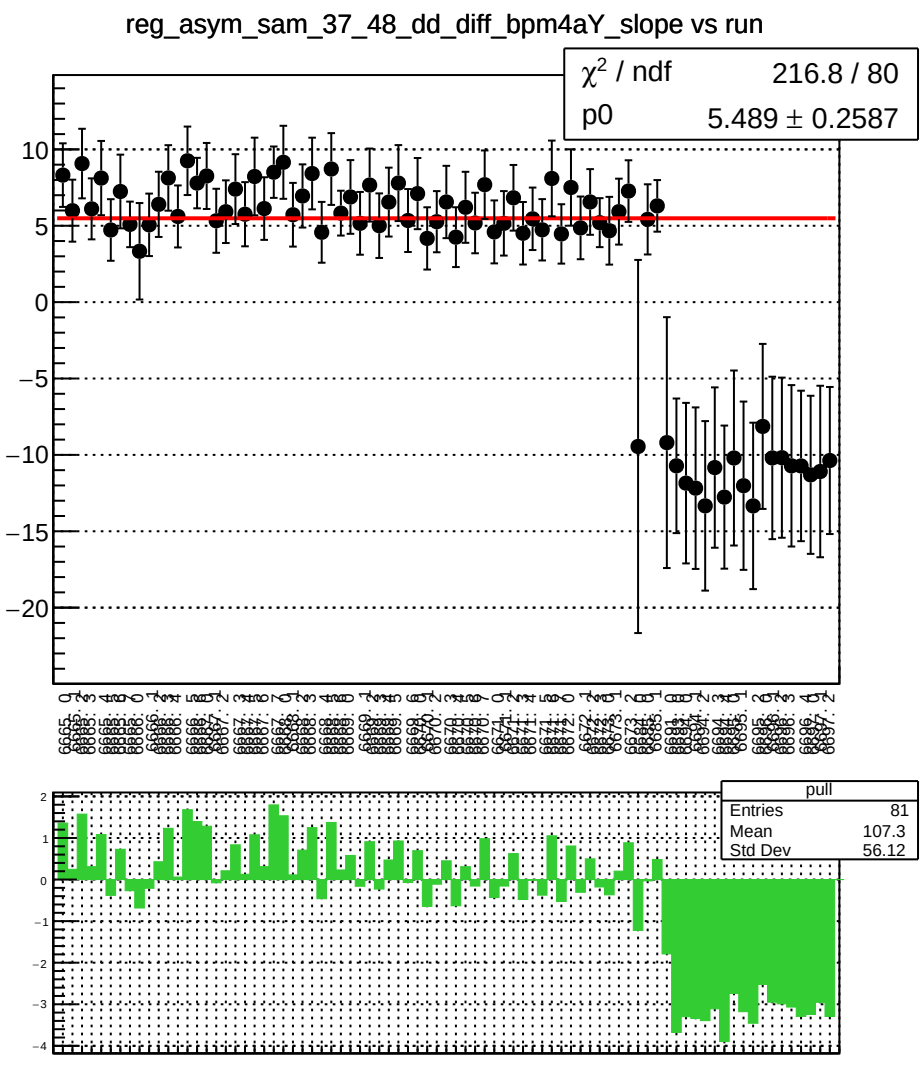

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.69 / 80
p0 36.07 ± 0.3918
pull
Entries 81
Mean 147.4
Std Dev 92.86
pull1D
Entries 81
Mean 0.007364
Std Dev 0.4258

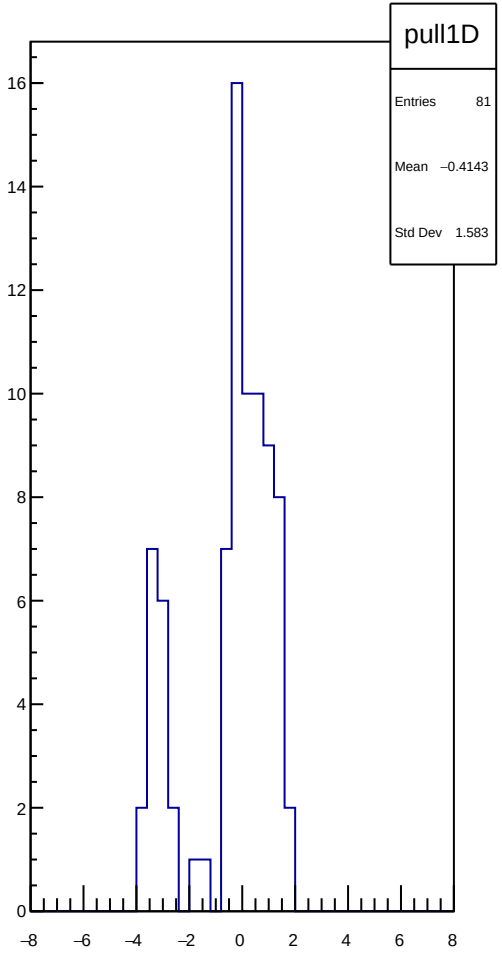

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.91 / 80
p0 −29.35 ± 0.3464
pull
Entries 81
Mean 105
Std Dev 51.19
pull1D
Entries 81
Mean 0.2216
Std Dev 0.9618

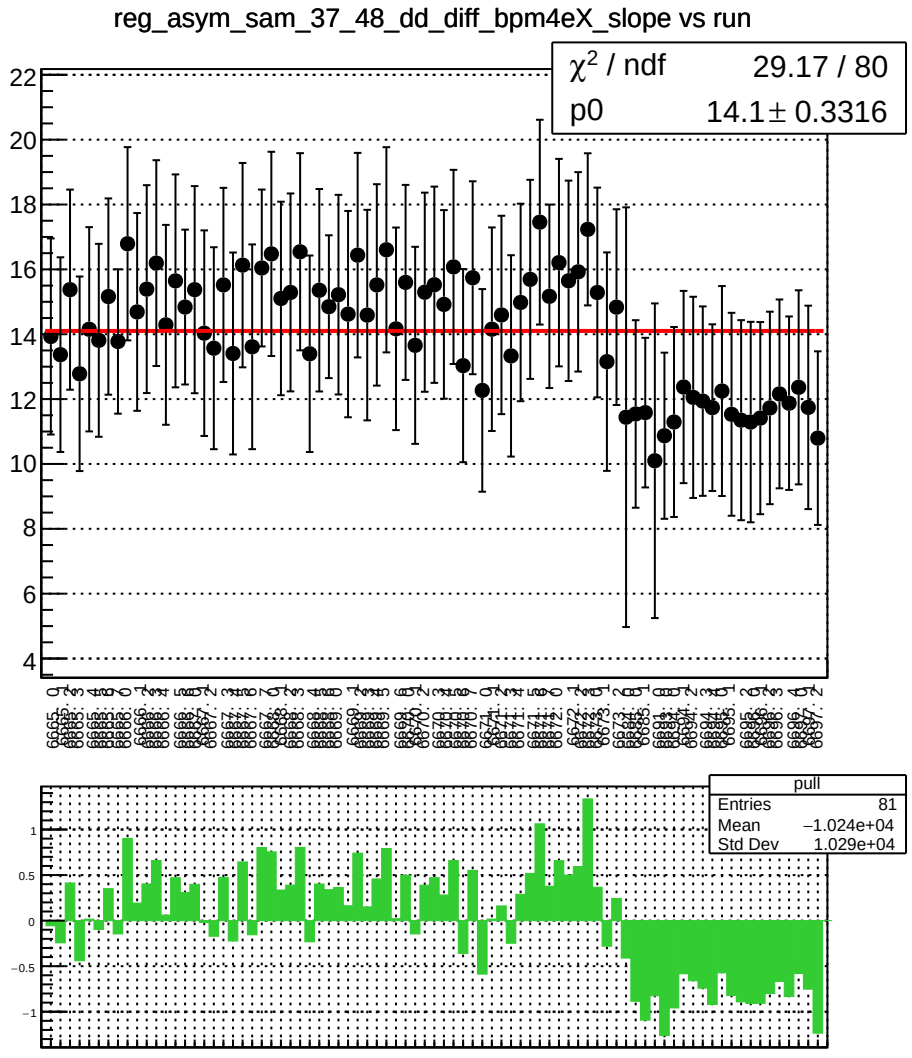

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 77.9 / 80
p0 −0.0524 ± 0.01538
pull
Entries 81
Mean 411.4
Std Dev 362.9
pull1D
Entries 81
Mean 0.04437
Std Dev 0.9797

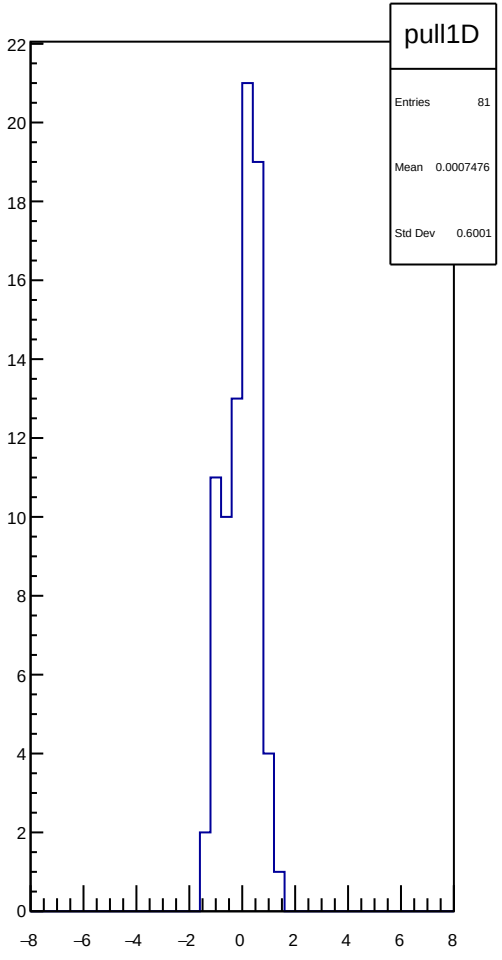

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 28.24 / 80
p0 4.57 ± 0.3137
pull
Entries 81
Mean 317
Std Dev 267.1

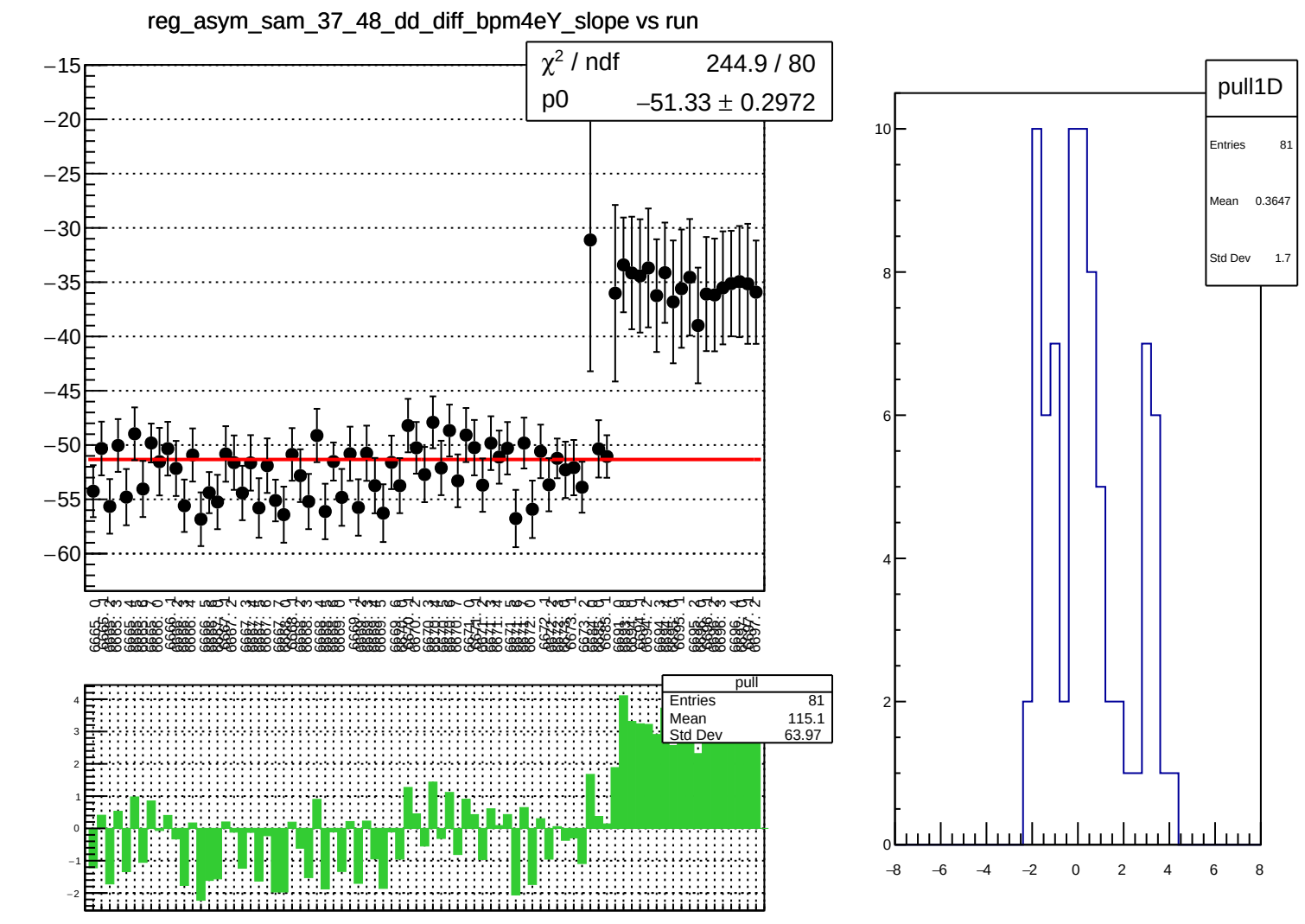

pull1D
Entries 81
Mean 0.02919
Std Dev 0.5898

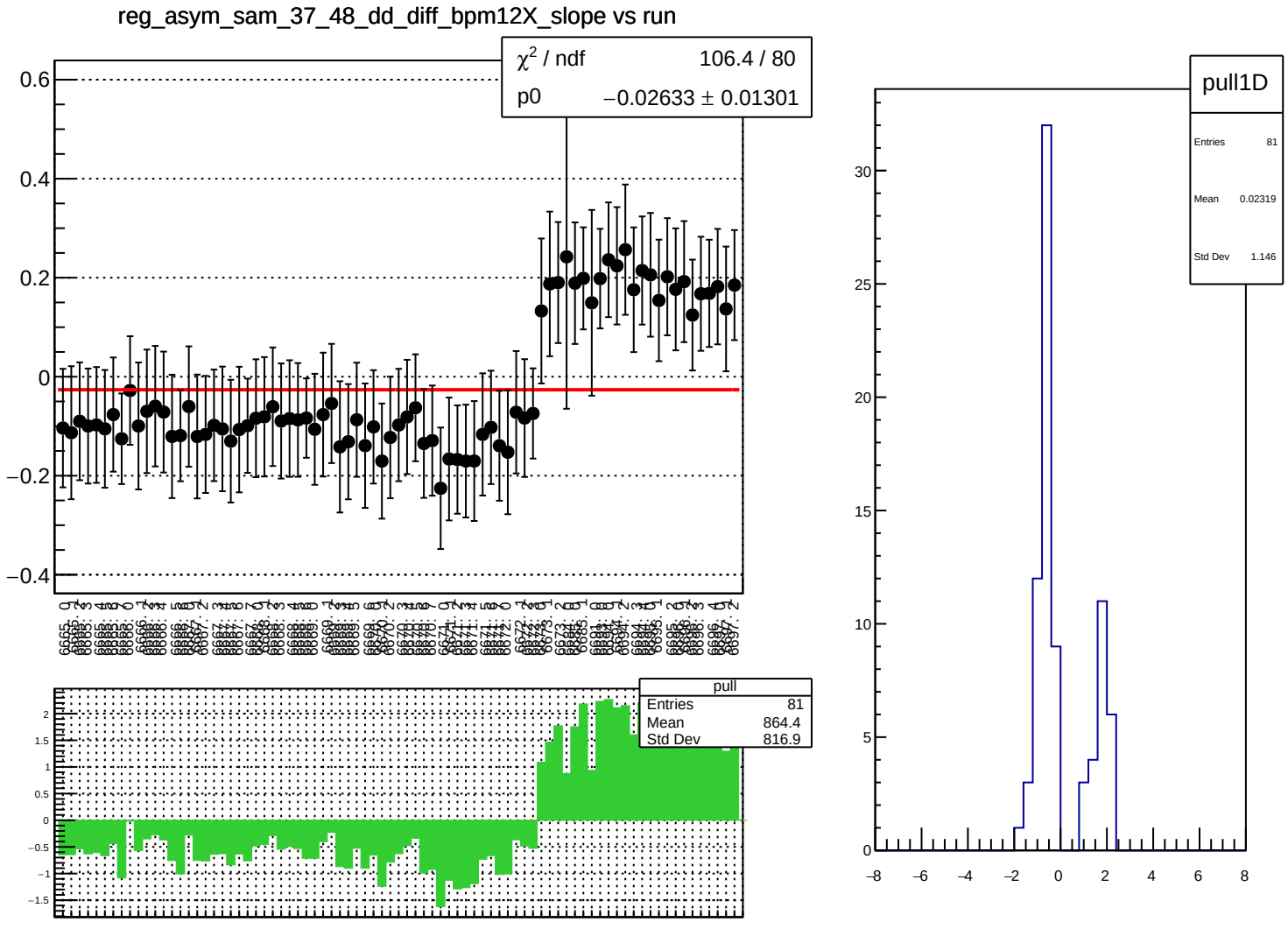

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 216.8 / 80
p0 5.489 ± 0.2587
pull
Entries 81
Mean 107.3
Std Dev 56.12

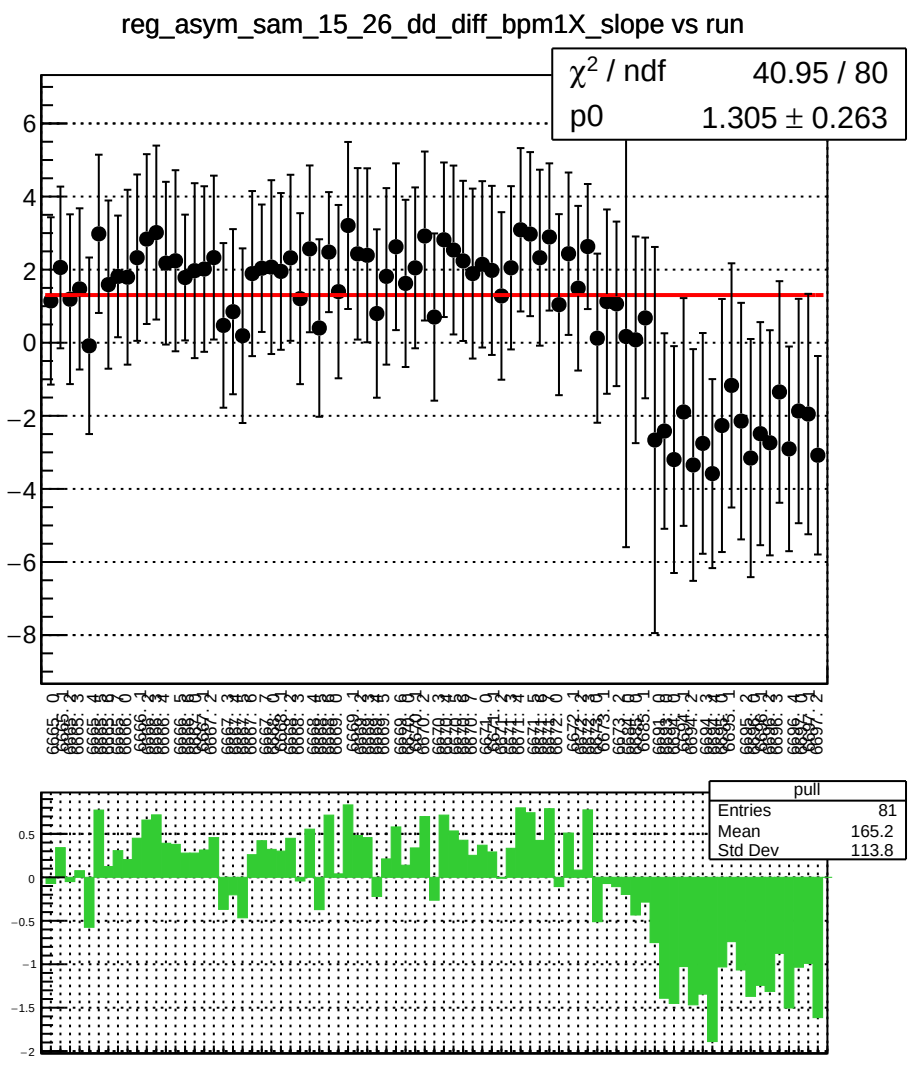

pull1D
Entries 81
Mean −0.4143
Std Dev 1.583

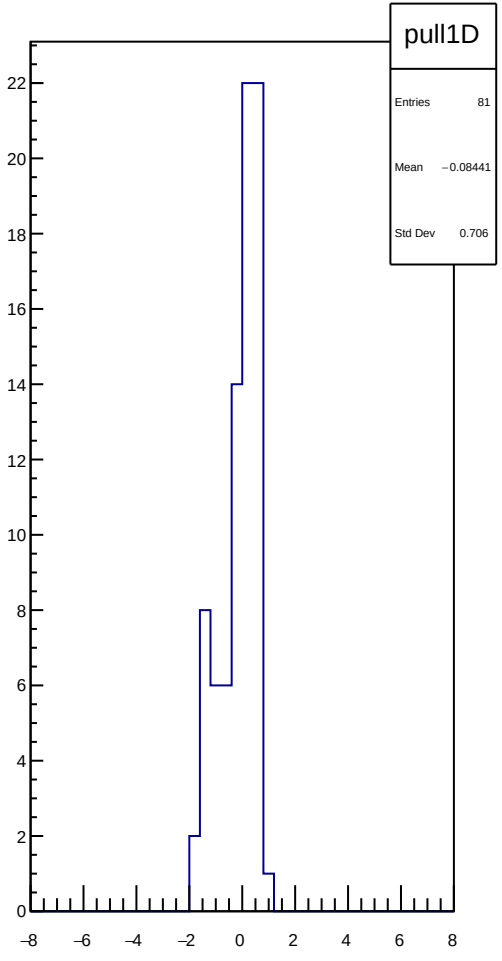

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 29.17 / 80
p0 14.1 ± 0.3316
pull
Entries 81
Mean −1.024e+04
Std Dev 1.029e+04

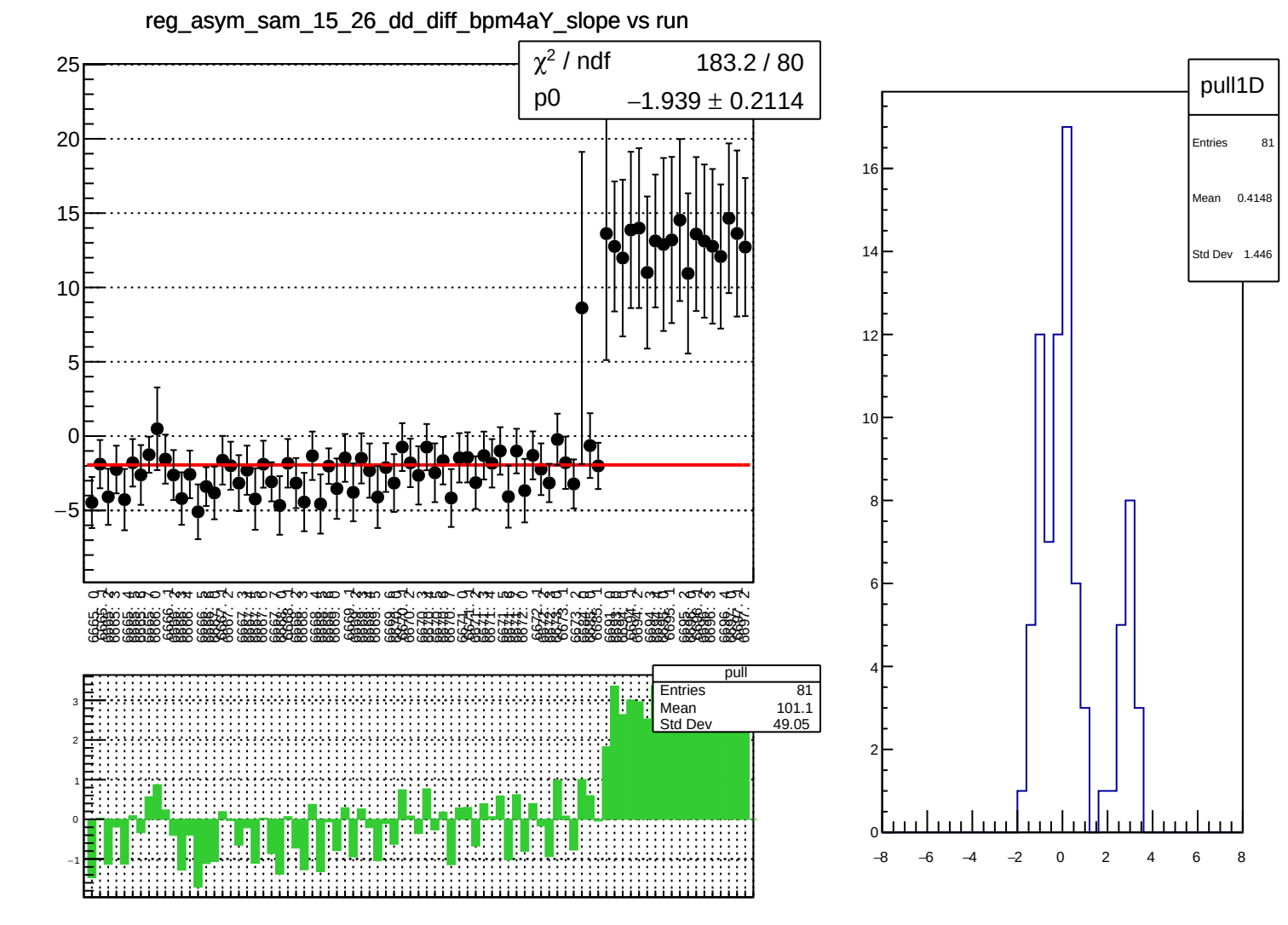

pull1D
Entries 81
Mean 0.0007476
Std Dev 0.6001

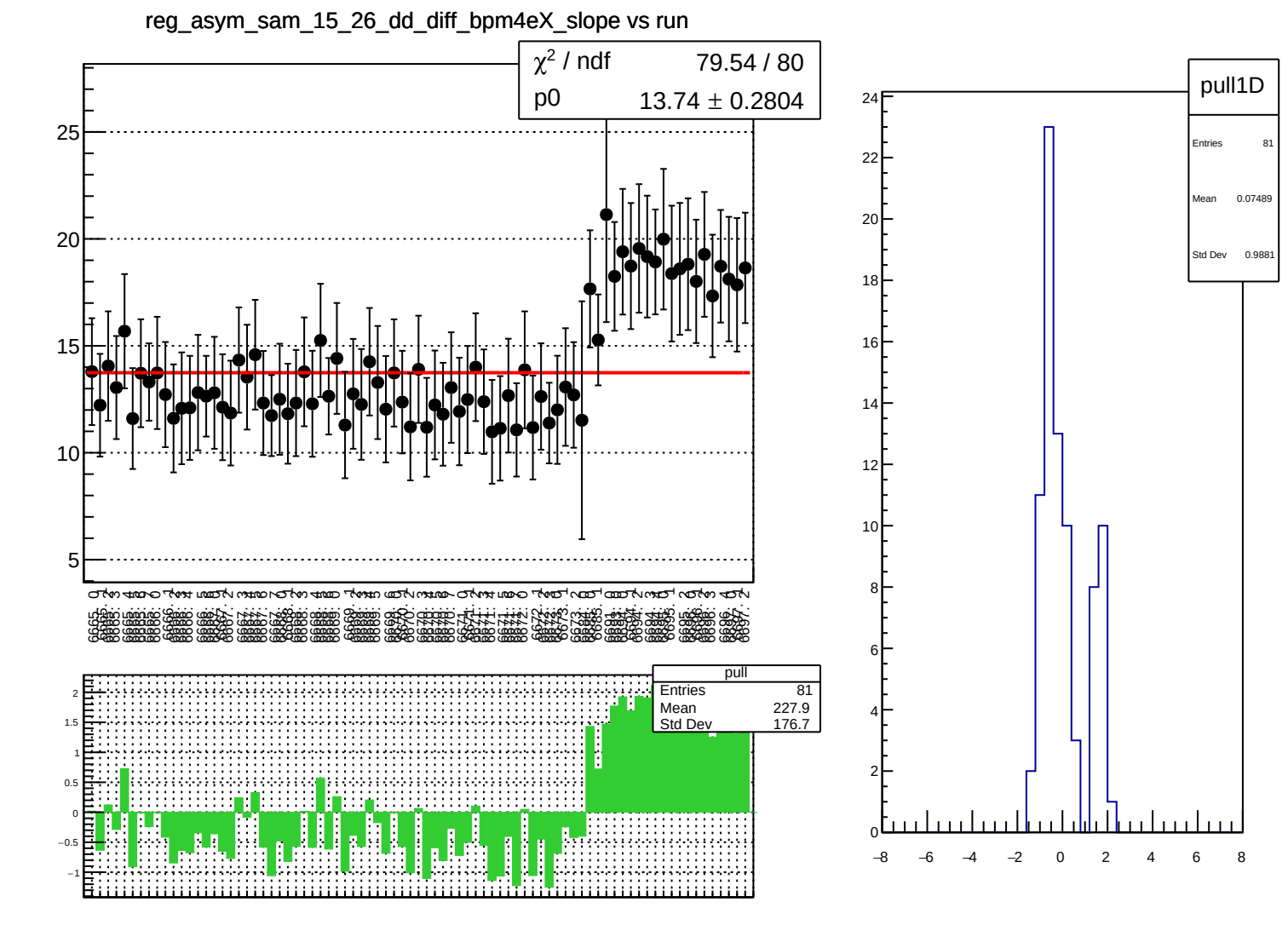

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 244.9 / 80
p0 −51.33 ± 0.2972
pull
Entries 81
Mean 115.1
Std Dev 63.97
pull1D
Entries 81
Mean 0.3647
Std Dev 1.7

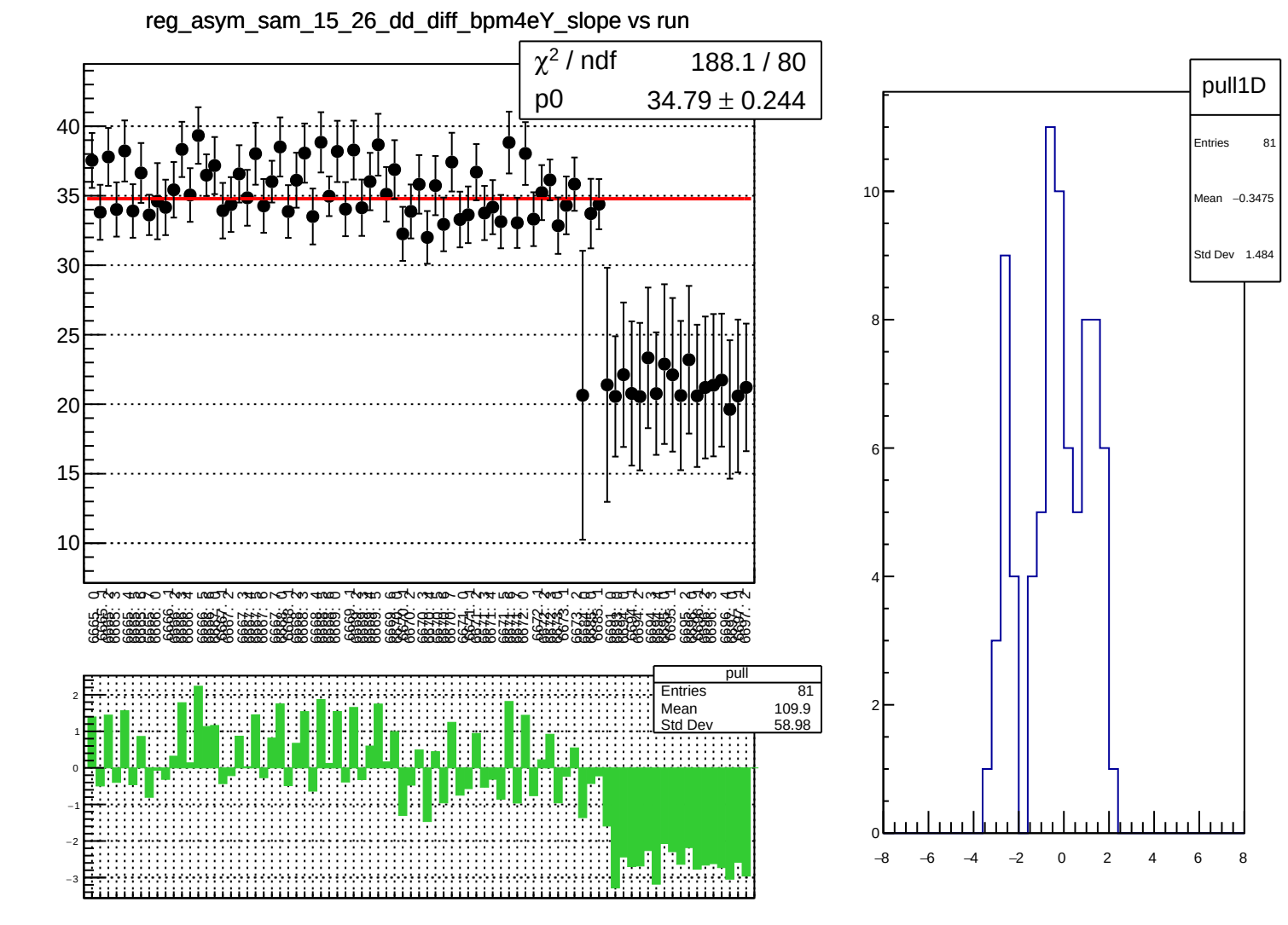

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 106.4 / 80
p0 −0.02633 ± 0.01301
pull
Entries 81
Mean 864.4
Std Dev 816.9
pull1D
Entries 81
Mean 0.02319
Std Dev 1.146

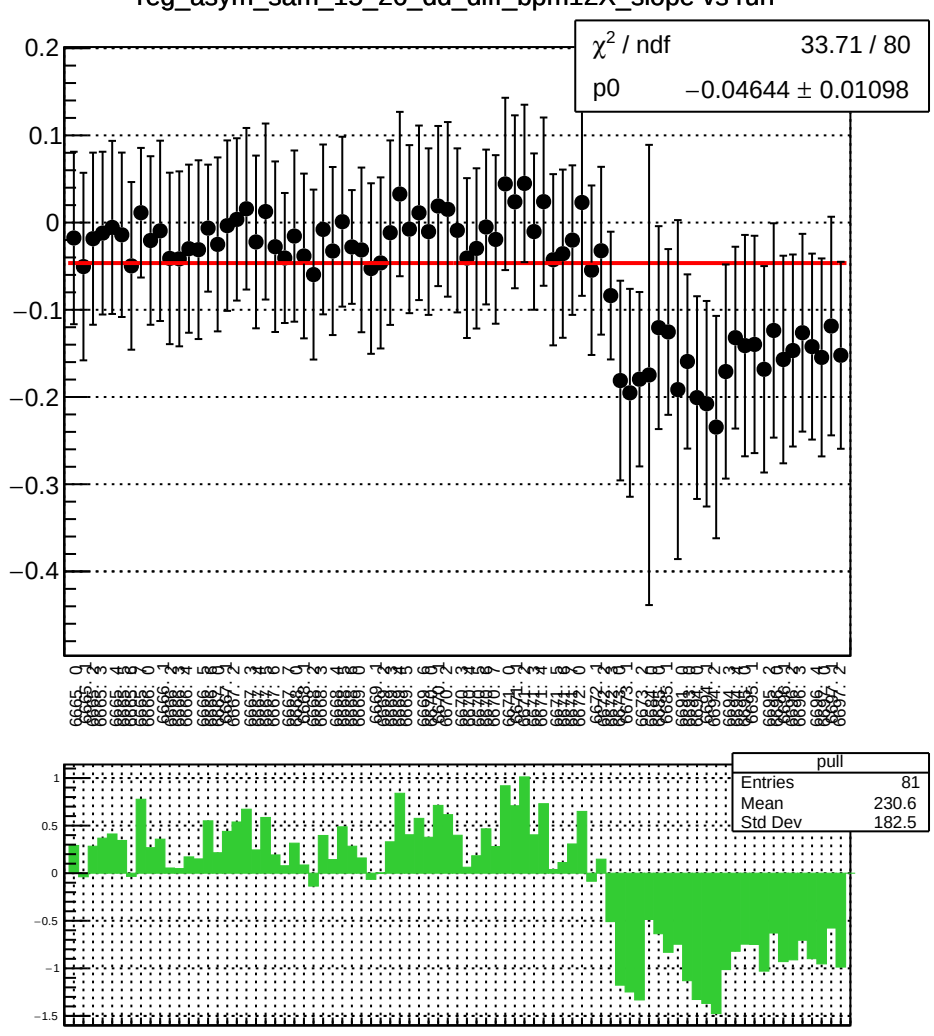

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 40.95 / 80
p0 1.305 ± 0.263
pull
Entries 81
Mean 165.2
Std Dev 113.8

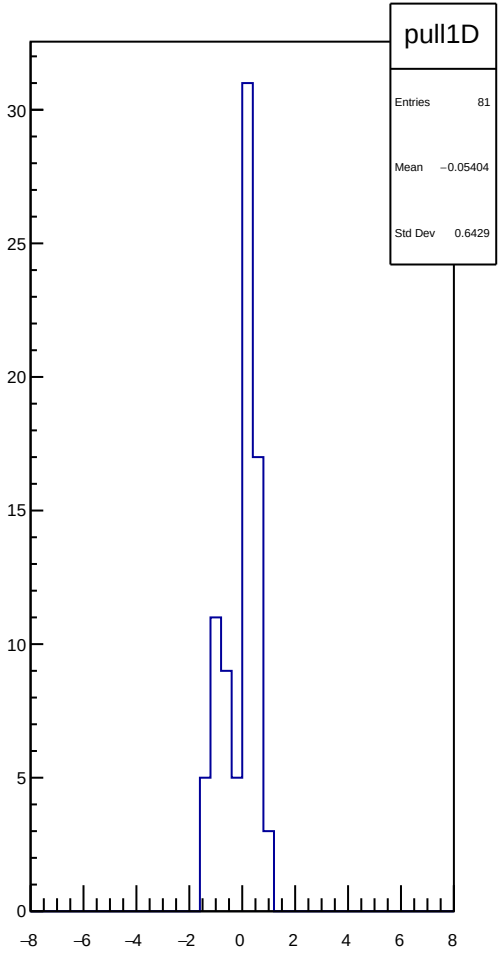

pull1D
Entries 81
Mean −0.08441
Std Dev 0.706

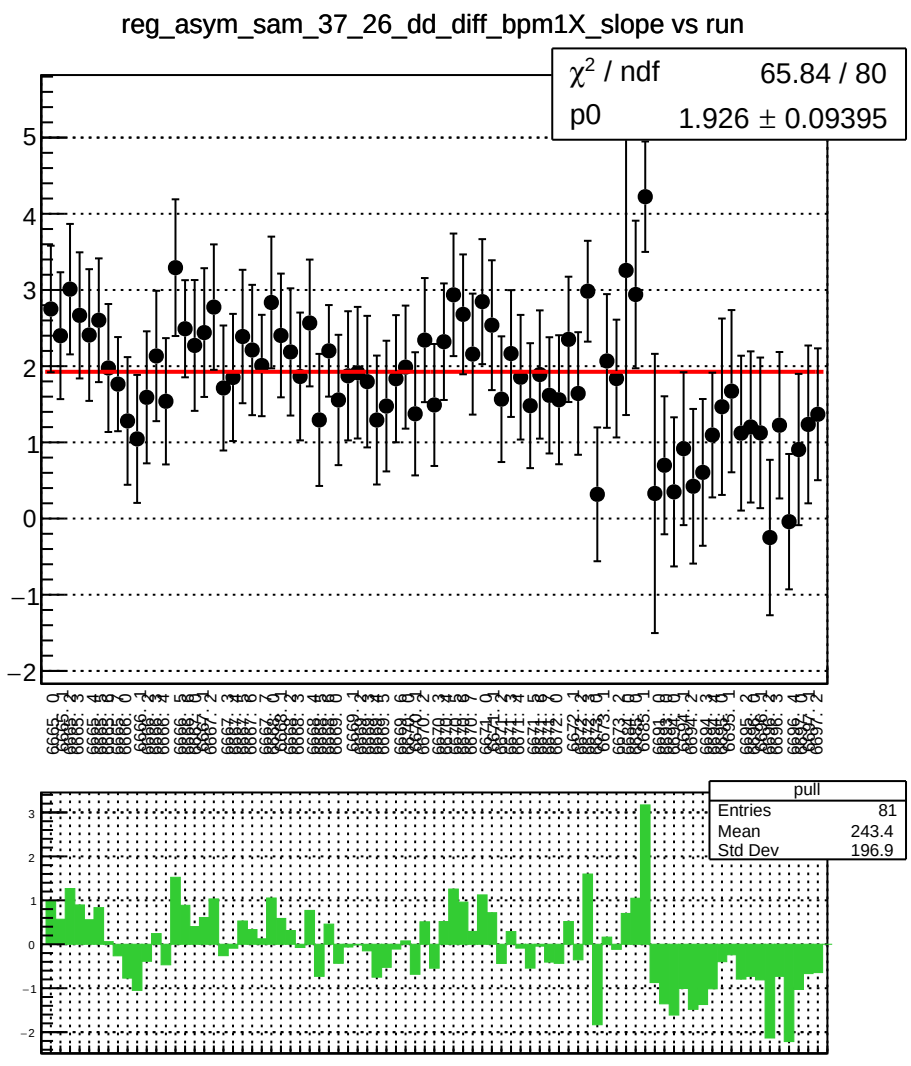

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 183.2 / 80
p0 −1.939 ± 0.2114
pull
Entries 81
Mean 101.1
Std Dev 49.05
pull1D
Entries 81
Mean 0.4148
Std Dev 1.446

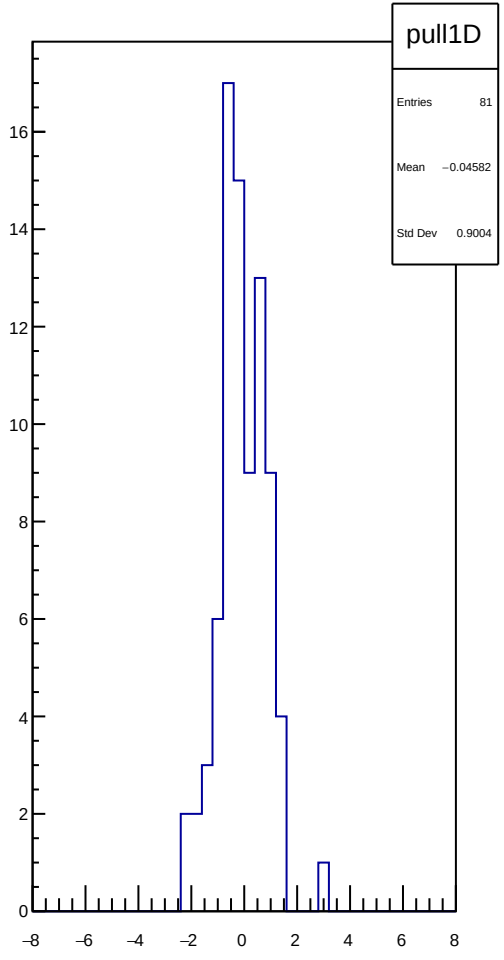

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 79.54 / 80
p0 13.74 ± 0.2804
pull
Entries 81
Mean 227.9
Std Dev 176.7
pull1D
Entries 81
Mean 0.07489
Std Dev 0.9881

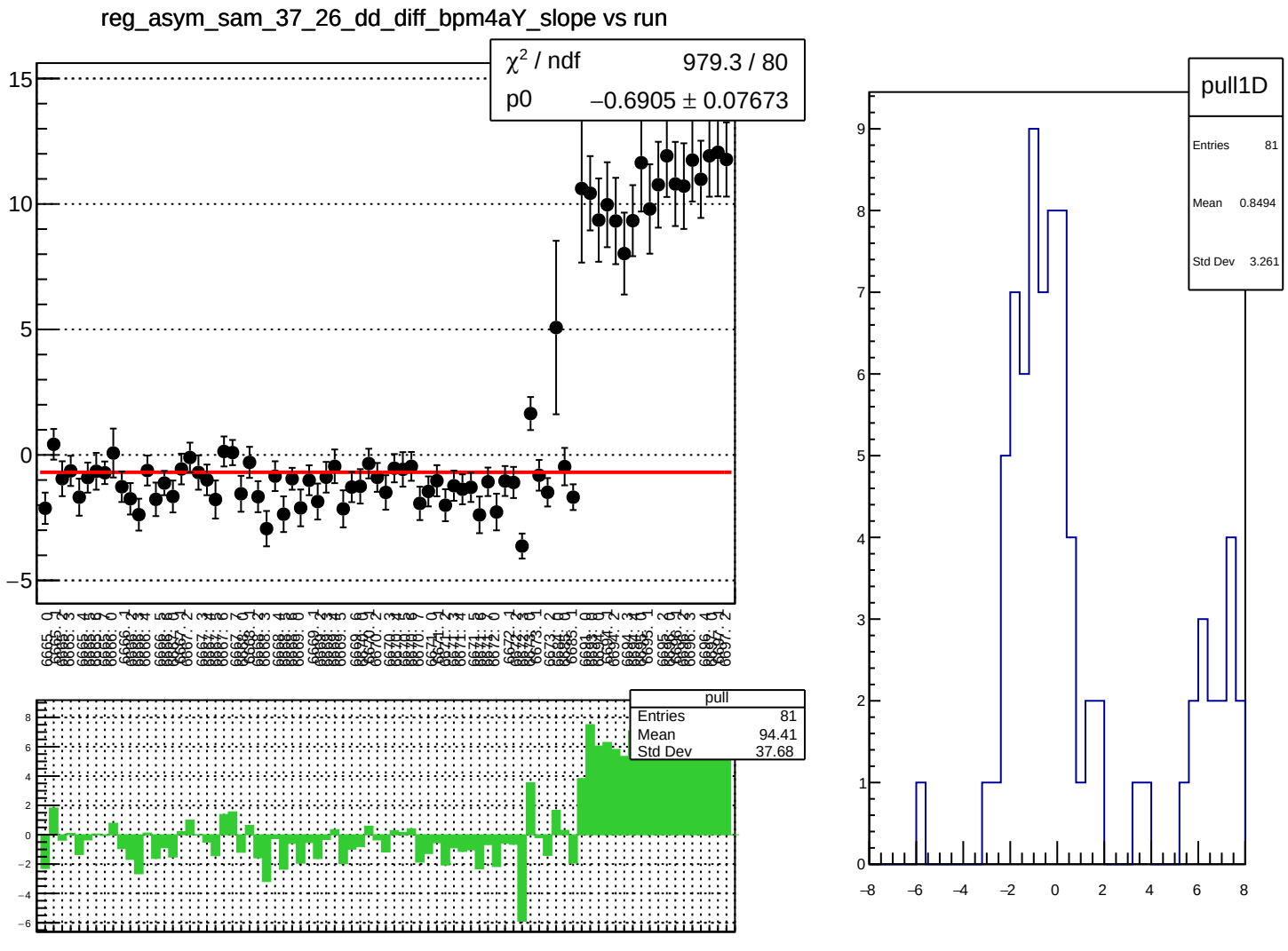

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 188.1 / 80
p0 34.79 ± 0.244
pull
Entries 81
Mean 109.9
Std Dev 58.98
pull1D
Entries 81
Mean −0.3475
Std Dev 1.484

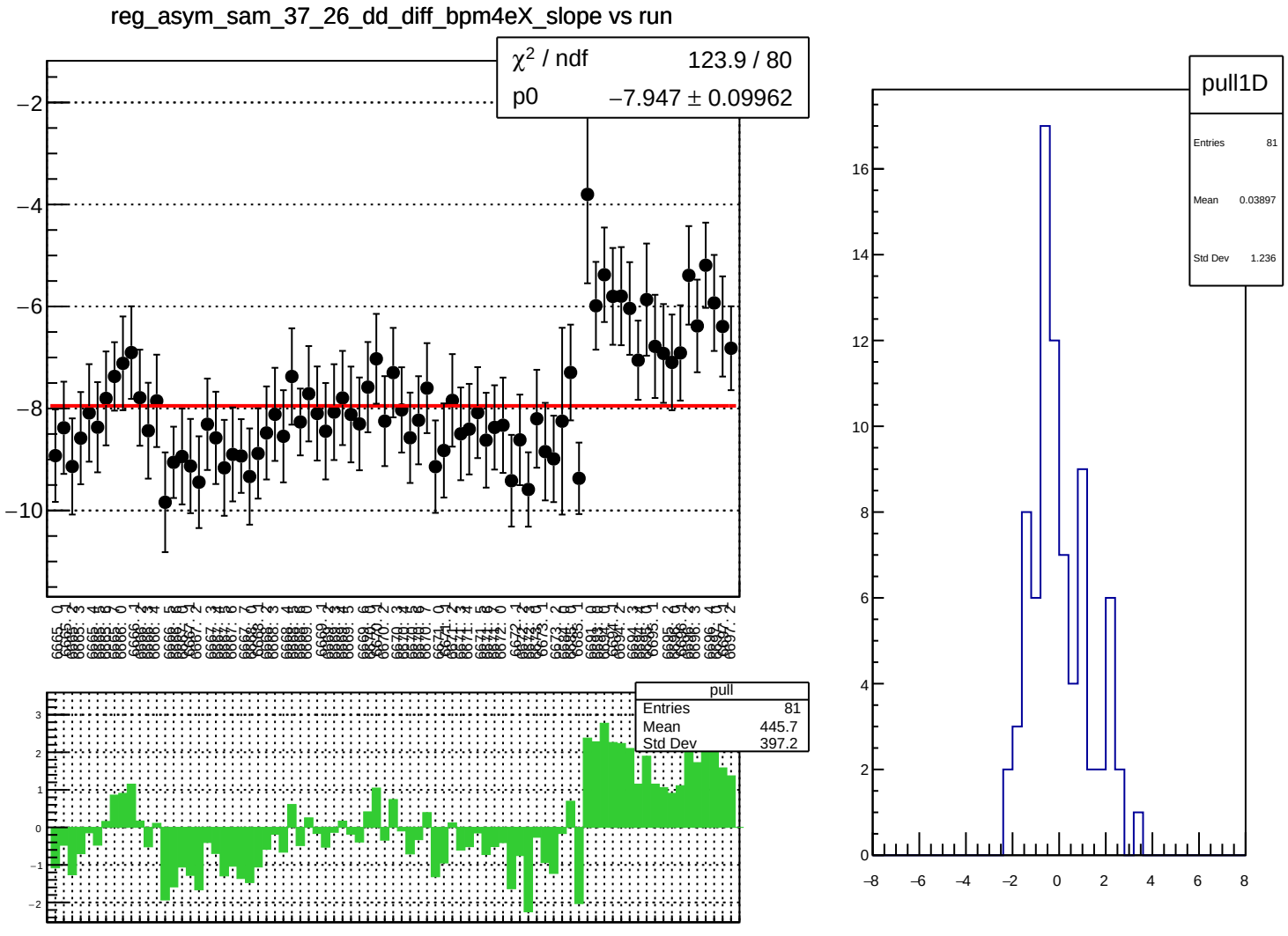

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 33.71 / 80
p0 −0.04644 ± 0.01098
pull
Entries 81
Mean 230.6
Std Dev 182.5

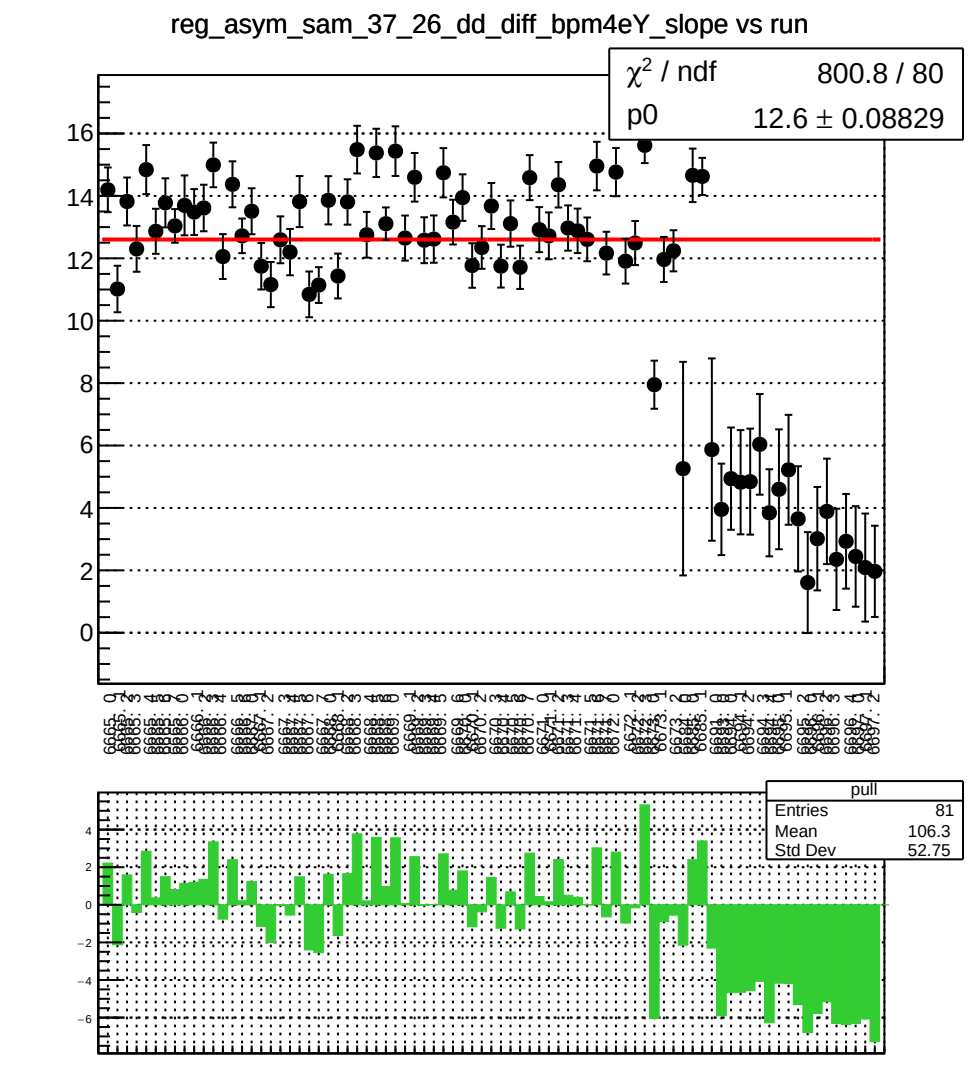

pull1D
Entries 81
Mean −0.05404
Std Dev 0.6429

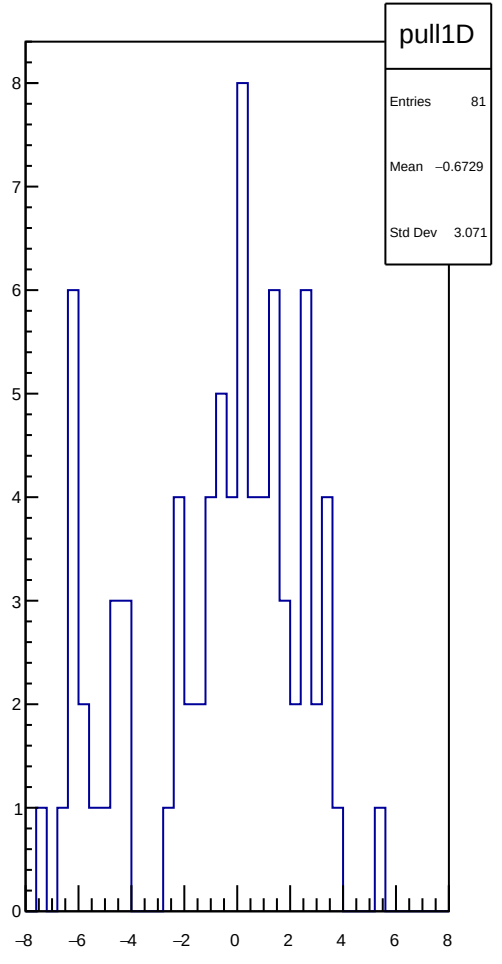

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 65.84 / 80
p0 1.926 ± 0.09395
pull
Entries 81
Mean 243.4
Std Dev 196.9

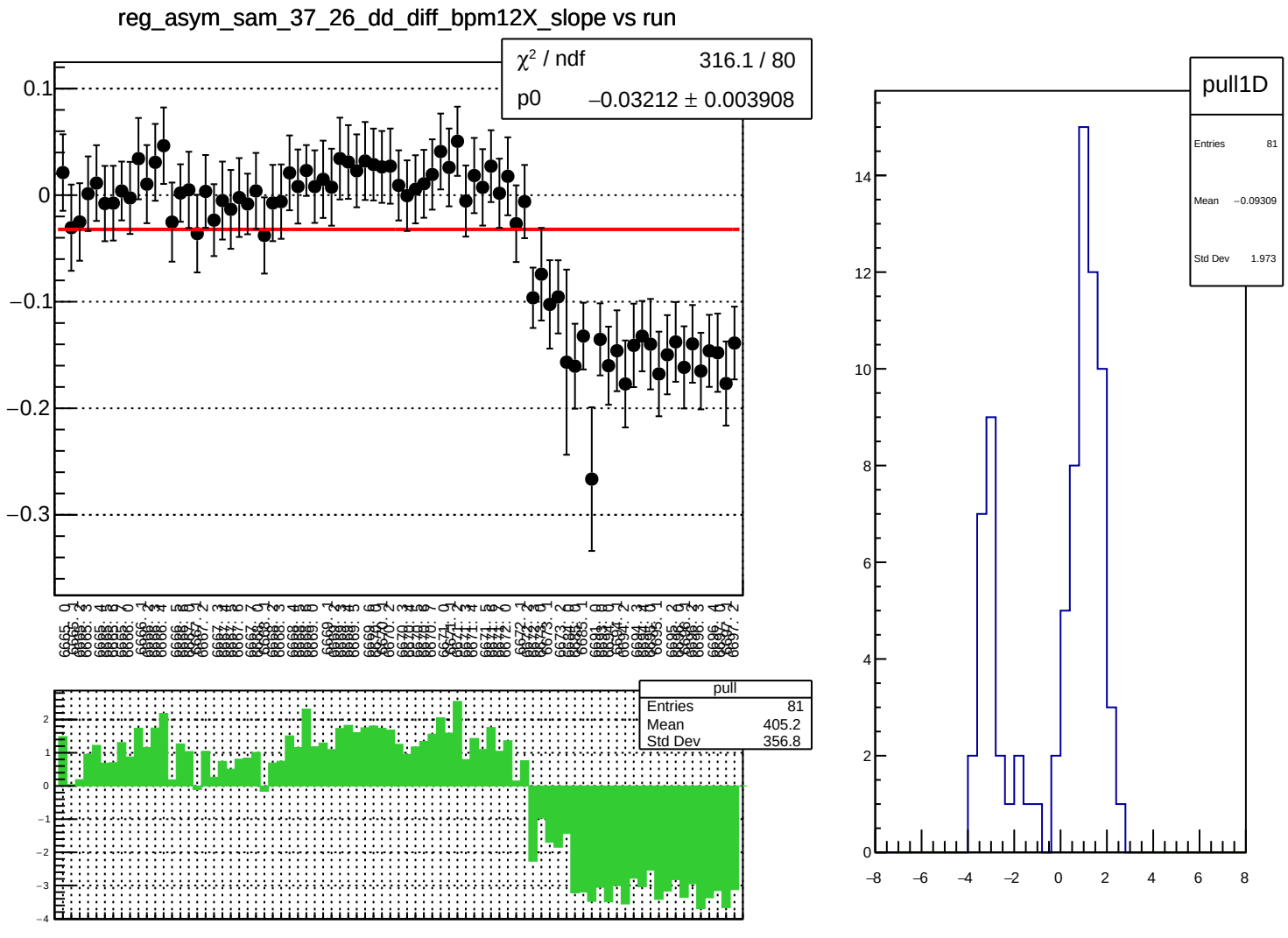

pull1D
Entries 81
Mean −0.04582
Std Dev 0.9004

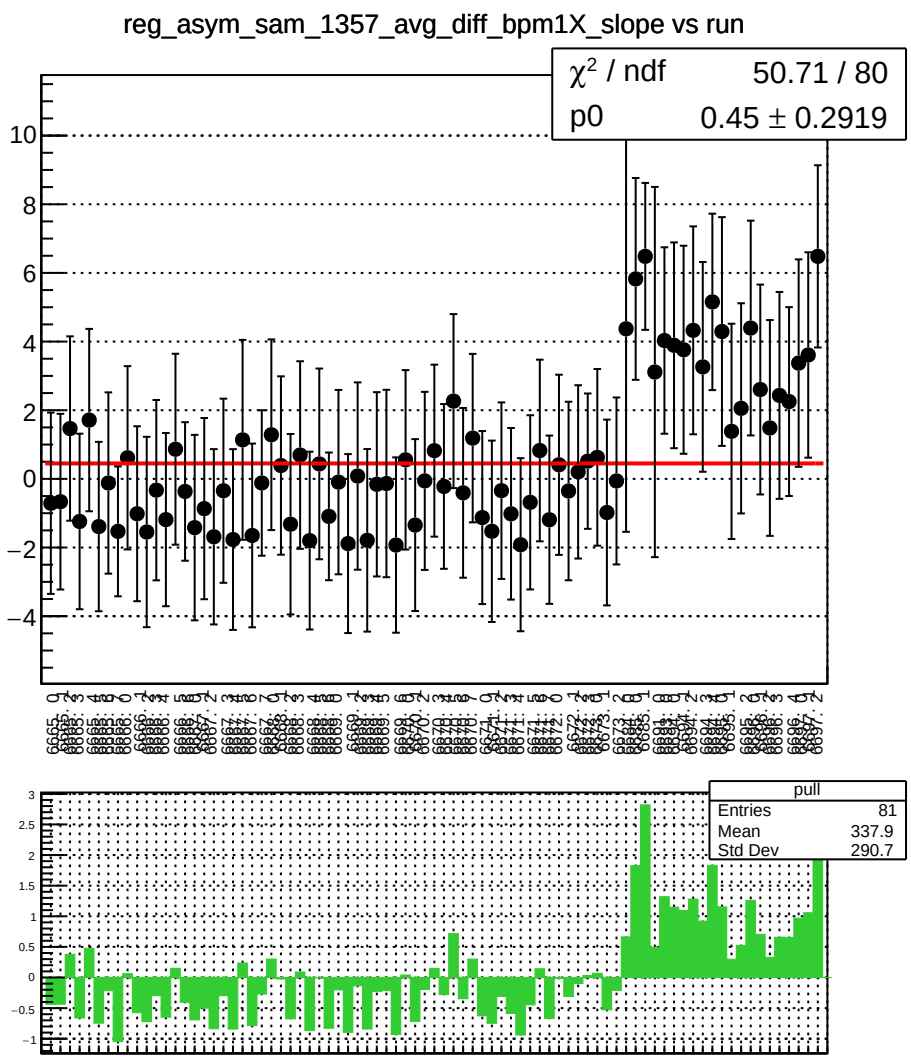

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 979.3 / 80
p0 −0.6905 ± 0.07673
pull
Entries 81
Mean 94.41
Std Dev 37.68
pull1D
Entries 81
Mean 0.8494
Std Dev 3.261

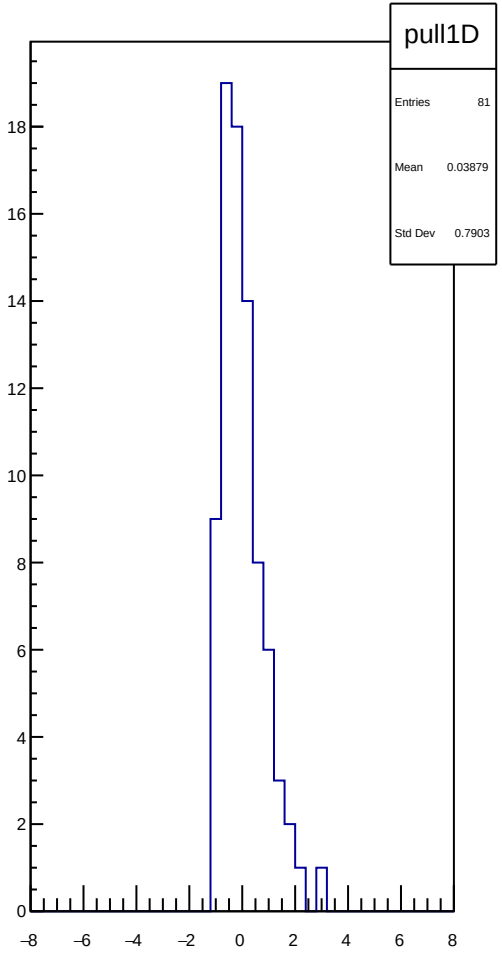

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.9 / 80
p0 −7.947 ± 0.09962
pull
Entries 81
Mean 445.7
Std Dev 397.2
pull1D
Entries 81
Mean 0.03897
Std Dev 1.236

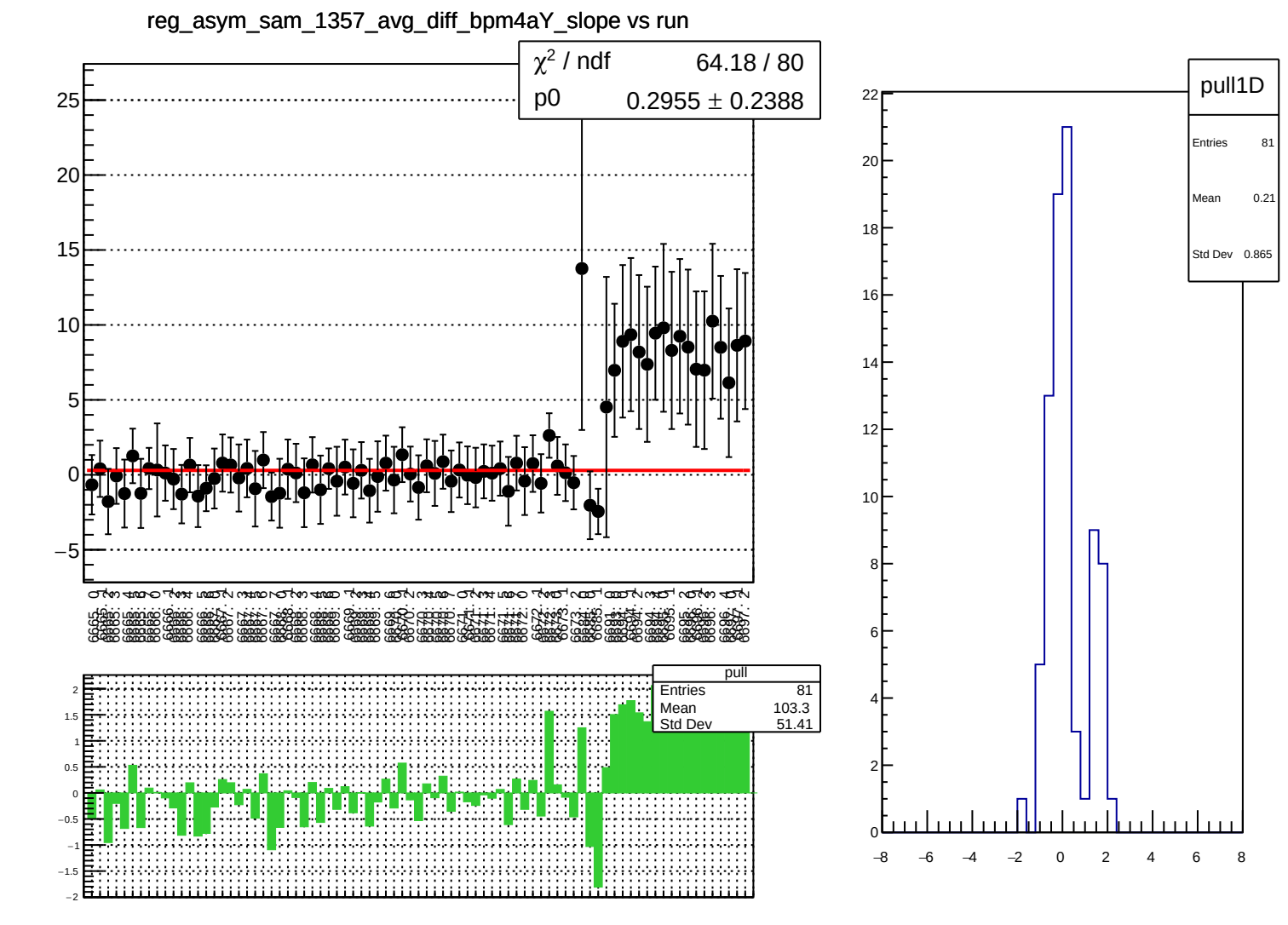

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 800.8 / 80
p0 12.6 ± 0.08829
pull
Entries 81
Mean 106.3
Std Dev 52.75

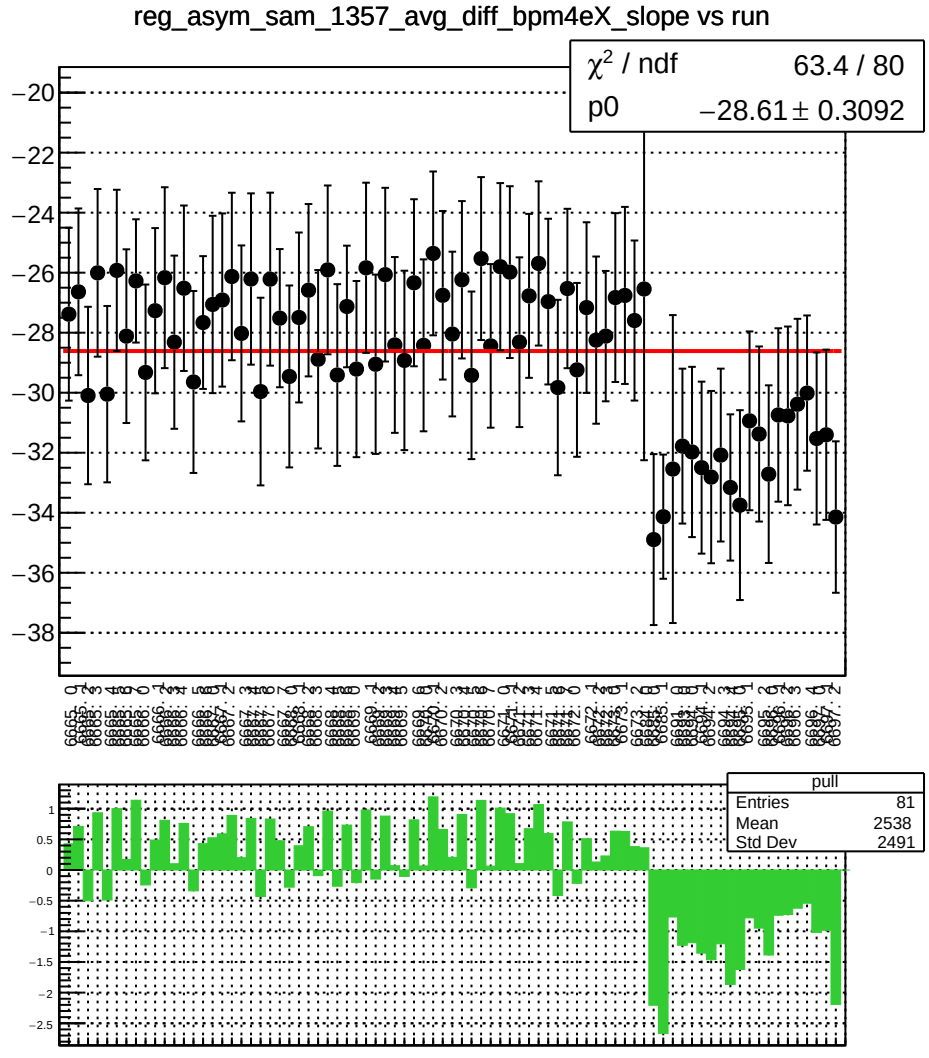

pull1D
Entries 81
Mean −0.6729
Std Dev 3.071

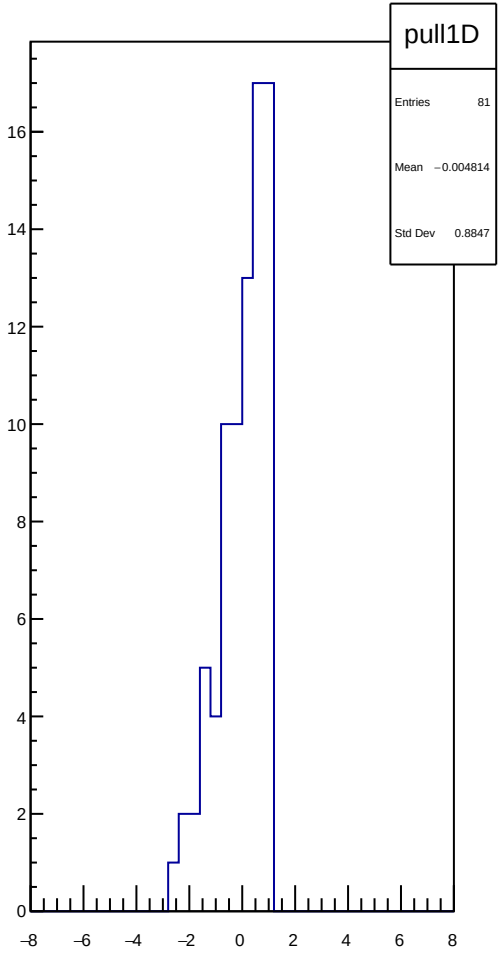

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 316.1 / 80
p0 −0.03212 ± 0.003908
pull
Entries 81
Mean 405.2
Std Dev 356.8
pull1D
Entries 81
Mean −0.09309
Std Dev 1.973

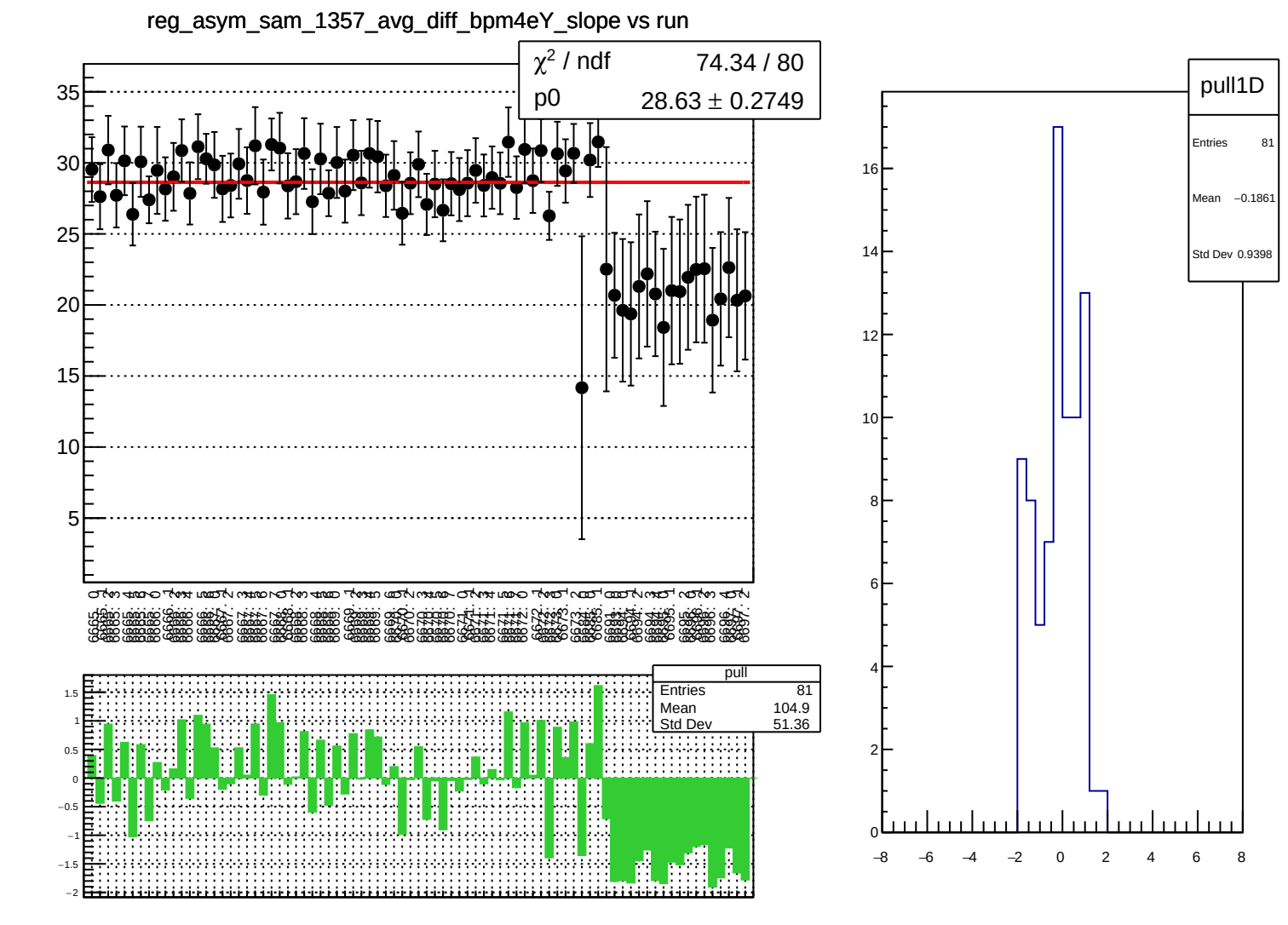

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 50.71 / 80
p0 0.45 ± 0.2919
pull
Entries 81
Mean 337.9
Std Dev 290.7

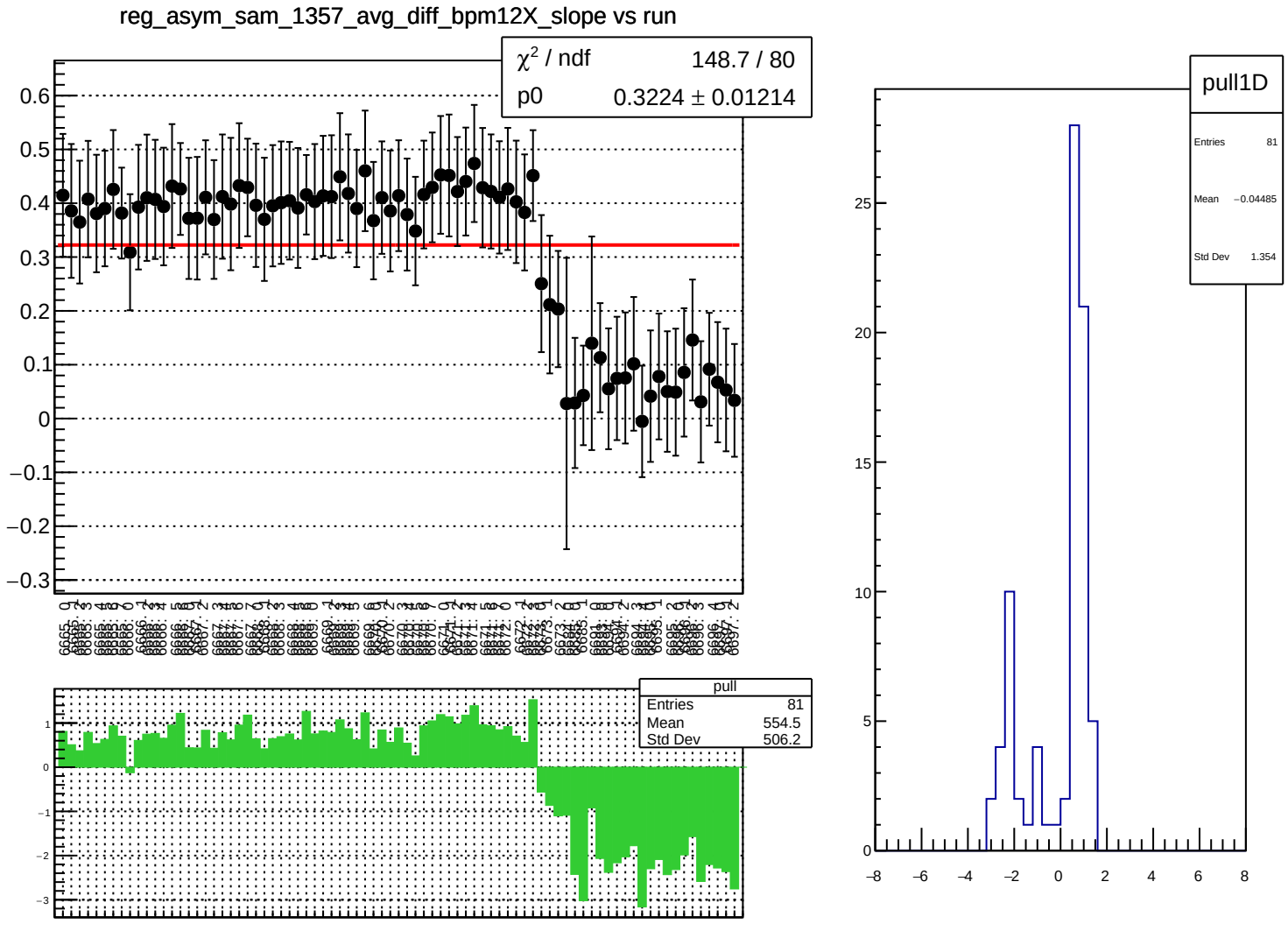

pull1D
Entries 81
Mean 0.03879
Std Dev 0.7903

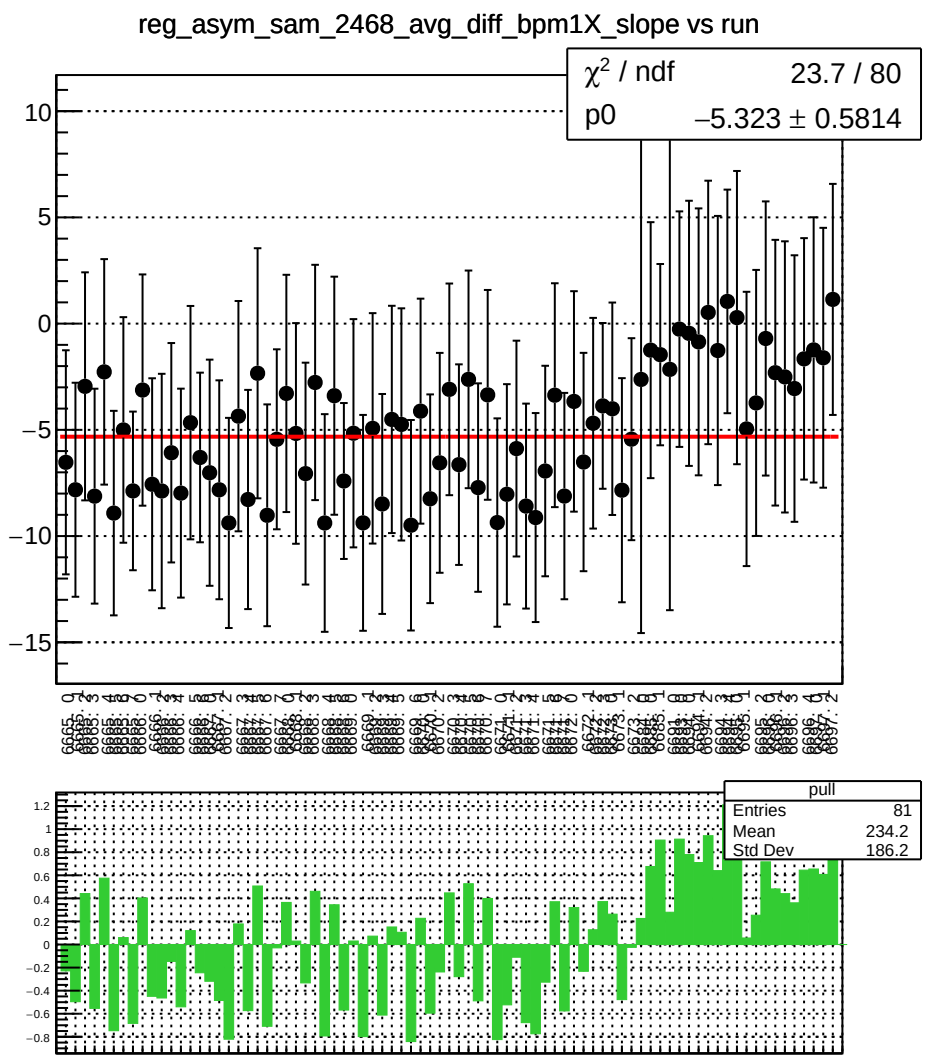

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 64.18 / 80
p0 0.2955 ± 0.2388
pull
Entries 81
Mean 103.3
Std Dev 51.41
pull1D
Entries 81
Mean 0.21
Std Dev 0.865

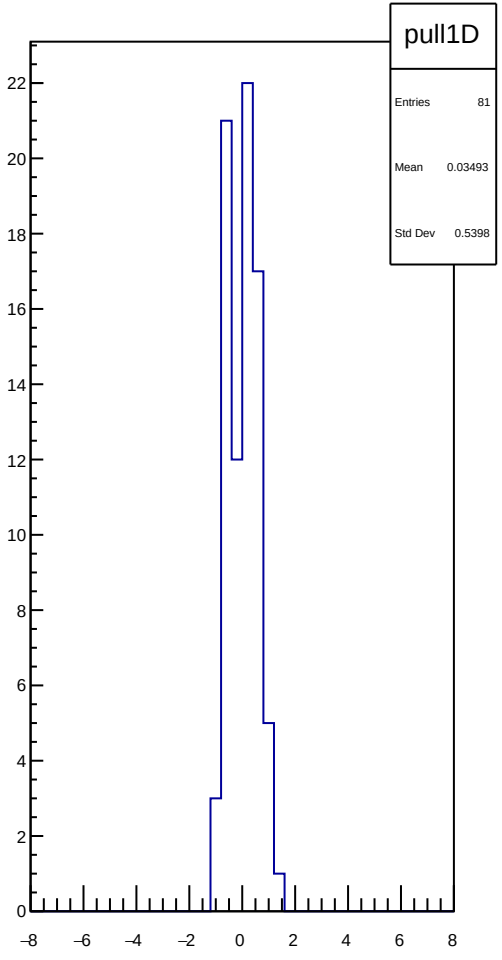

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.4 / 80
p0 −28.61 ± 0.3092
pull
Entries 81
Mean 2538
Std Dev 2491

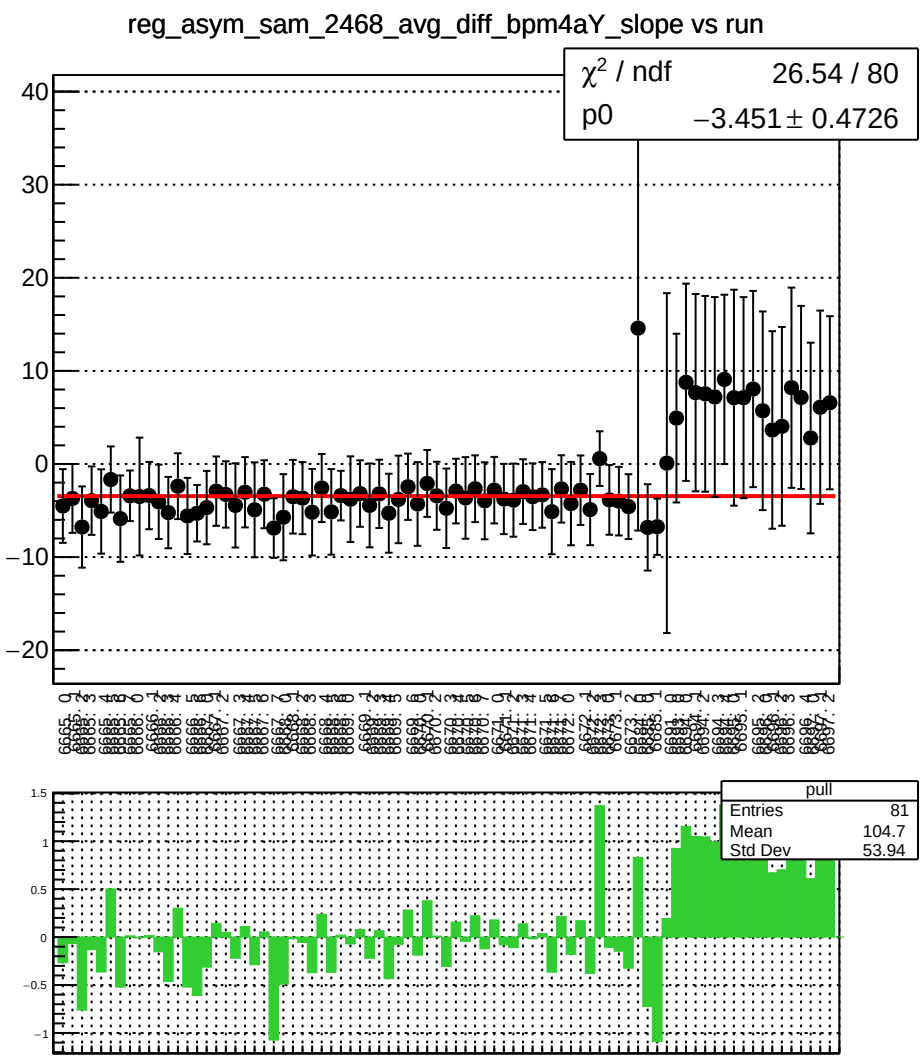

pull1D
Entries 81
Mean −0.004814
Std Dev 0.8847

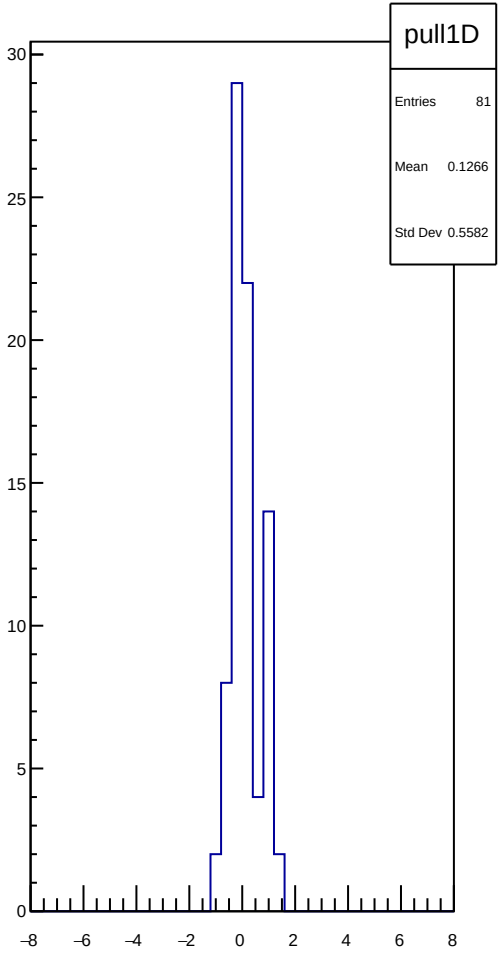

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 74.34 / 80
p0 28.63 ± 0.2749
pull
Entries 81
Mean 104.9
Std Dev 51.36
pull1D
Entries 81
Mean −0.1861
Std Dev 0.9398

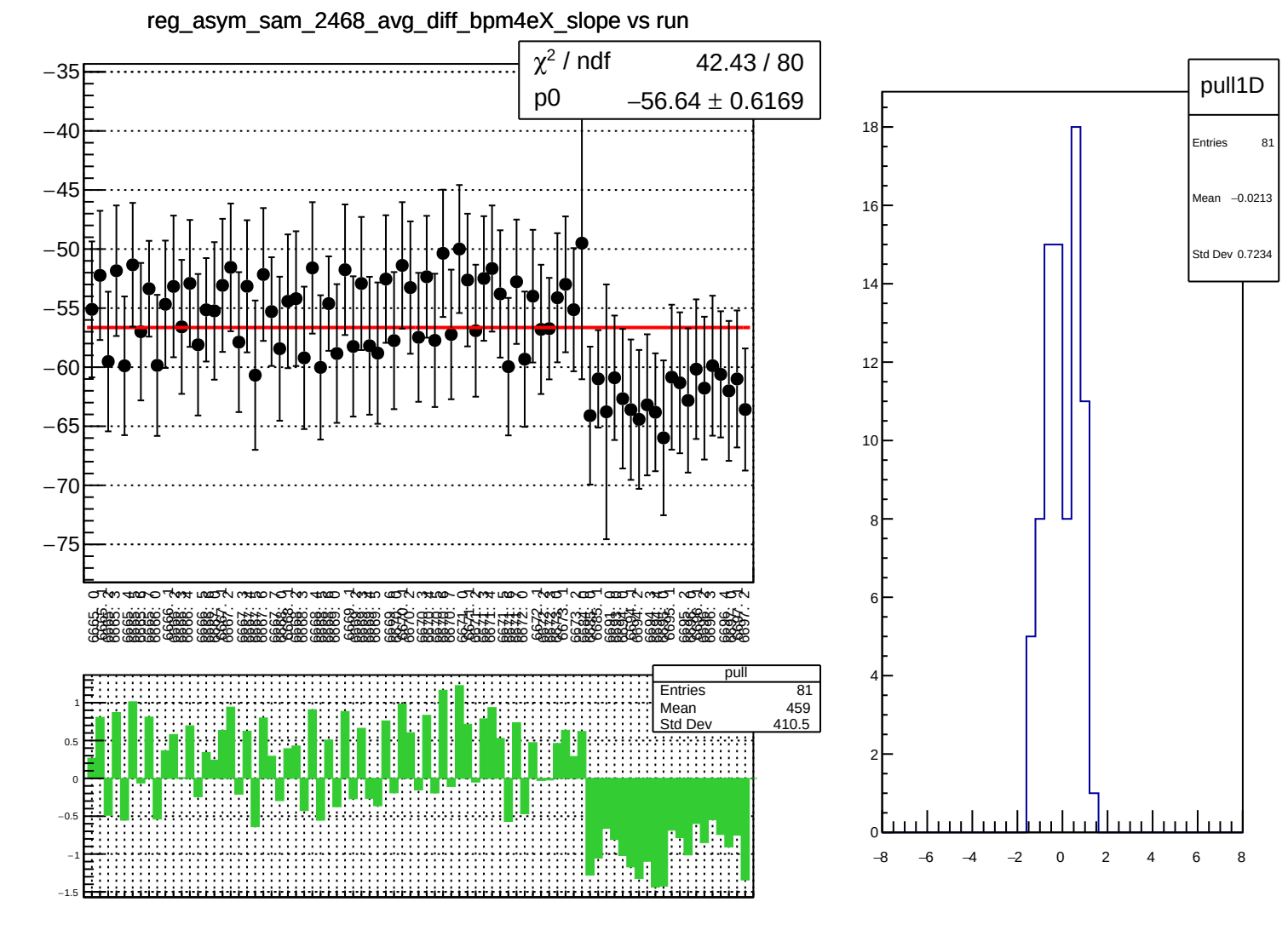

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 148.7 / 80
p0 0.3224 ± 0.01214
pull
Entries 81
Mean 554.5
Std Dev 506.2
pull1D
Entries 81
Mean −0.04485
Std Dev 1.354

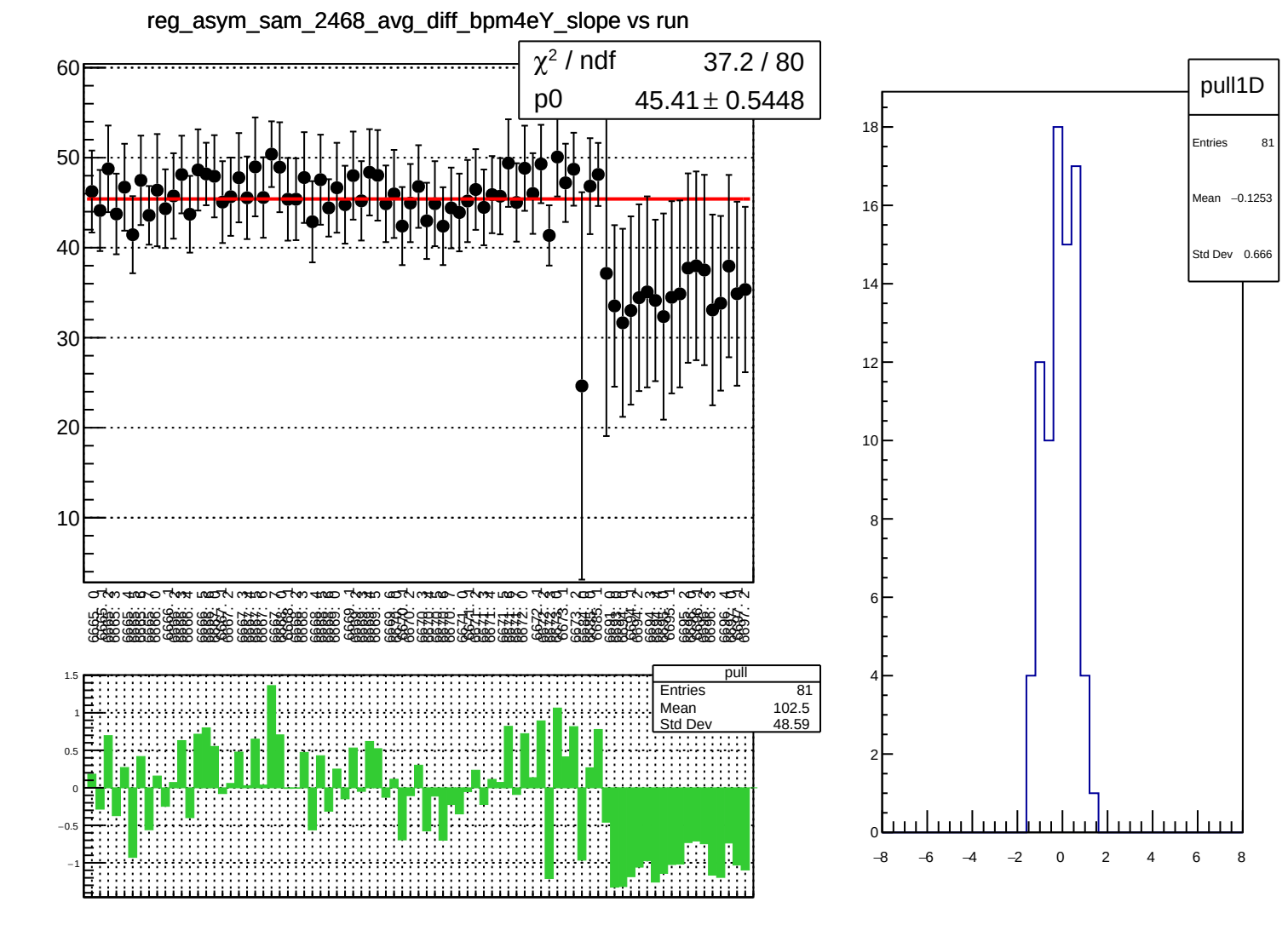

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 23.7 / 80
p0 −5.323 ± 0.5814
pull
Entries 81
Mean 234.2
Std Dev 186.2

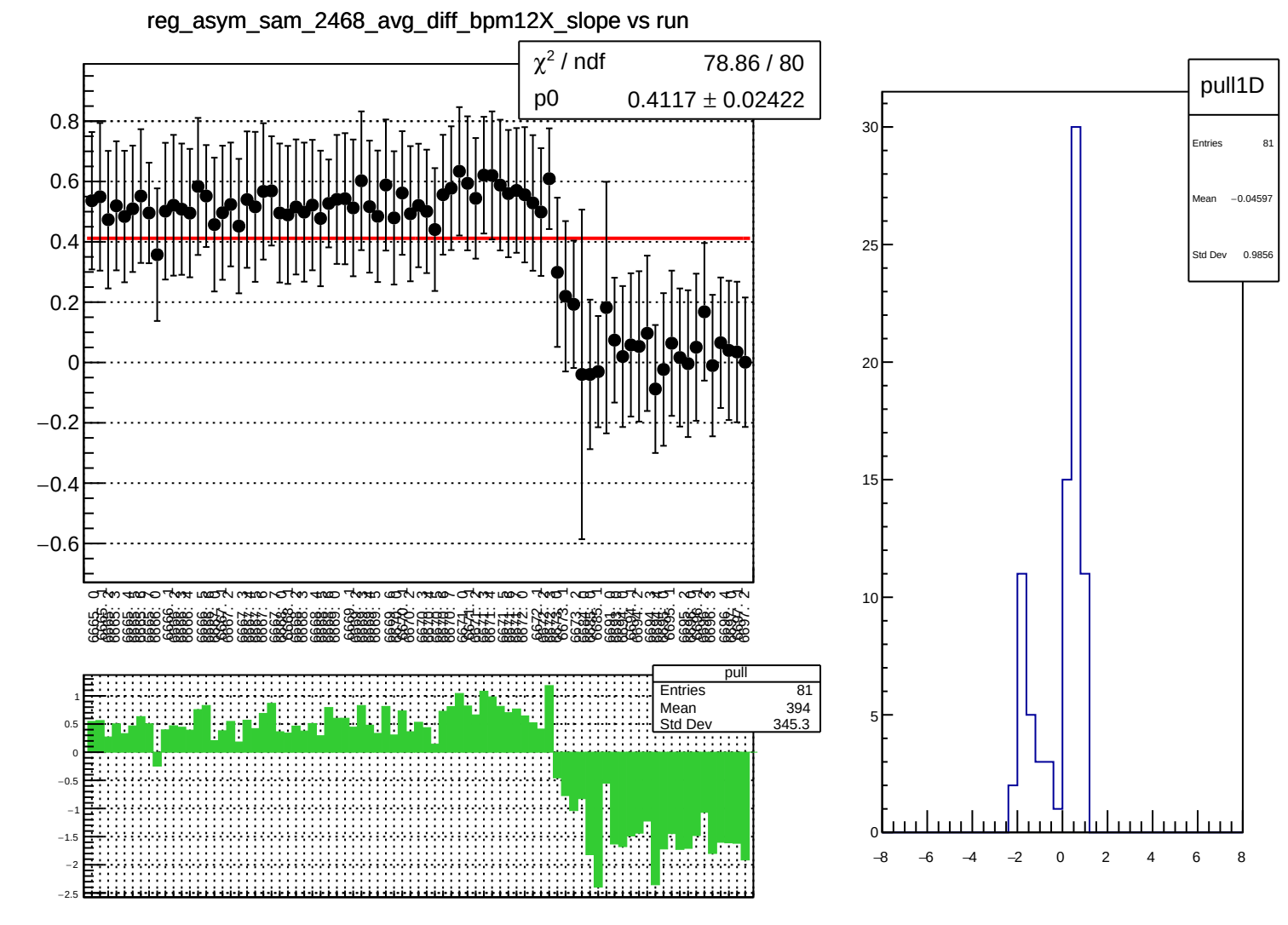

pull1D
Entries 81
Mean 0.03493
Std Dev 0.5398

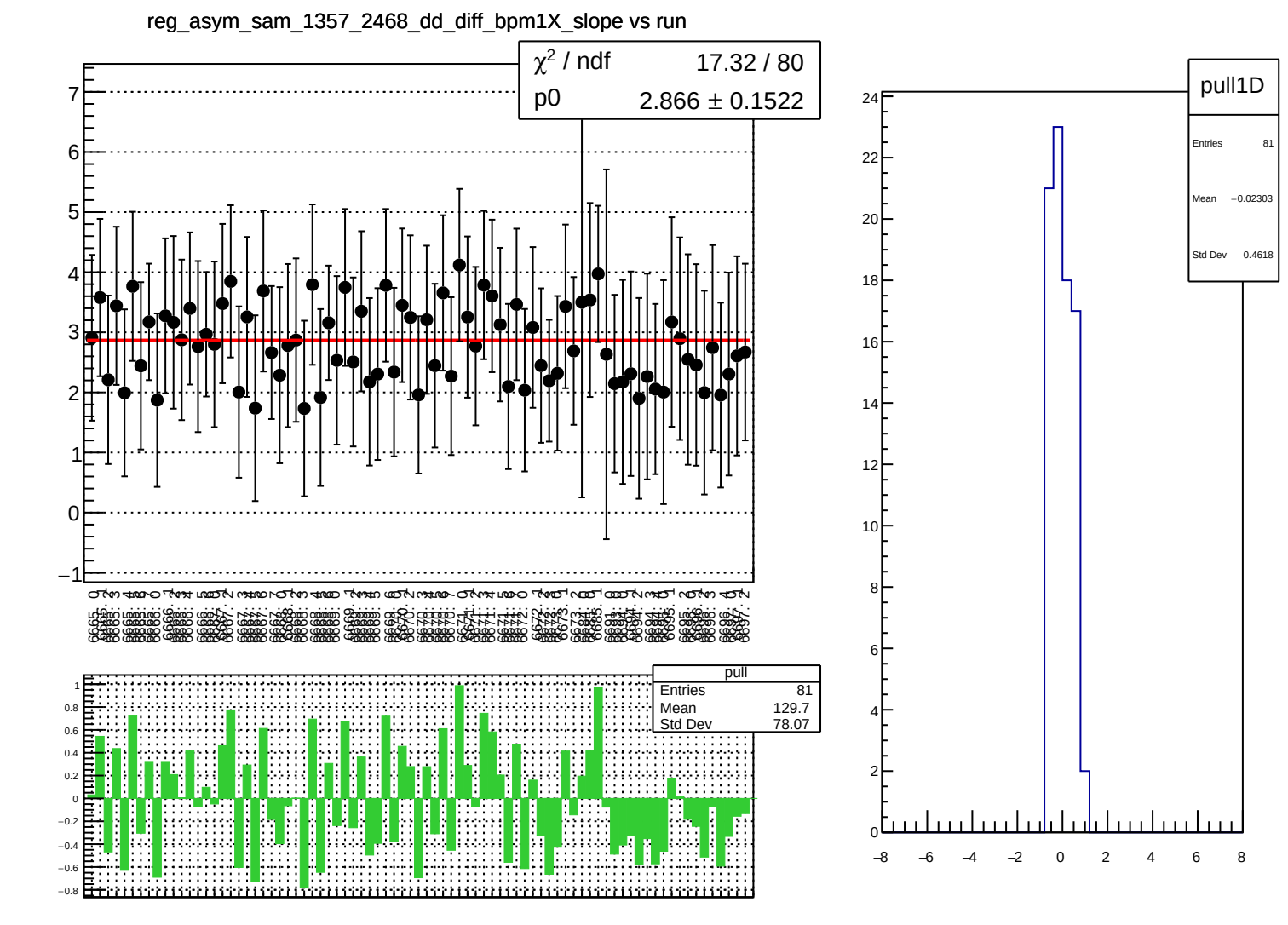

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.54 / 80
p0 −3.451 ± 0.4726
pull
Entries 81
Mean 104.7
Std Dev 53.94

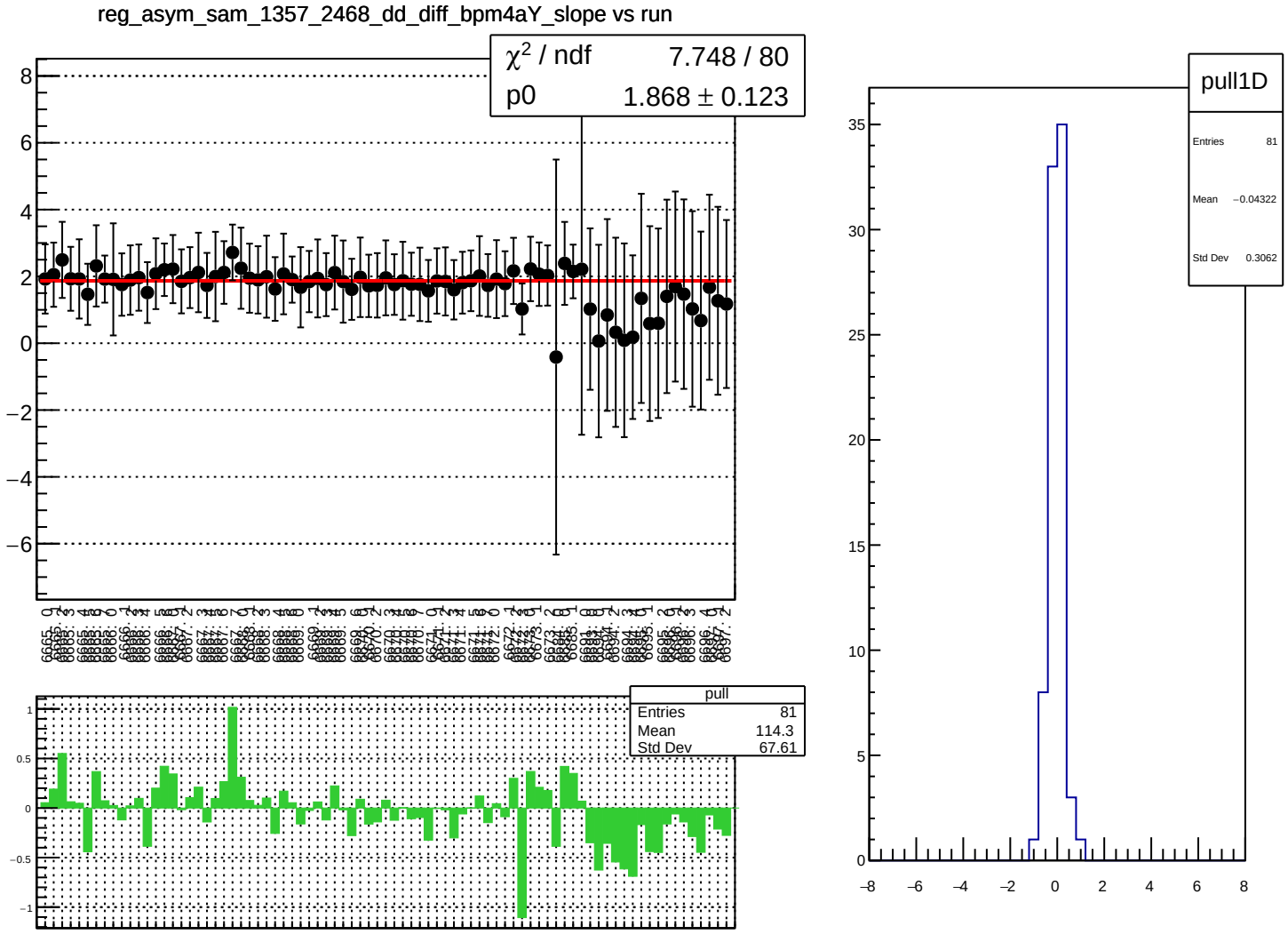

pull1D
Entries 81
Mean 0.1266
Std Dev 0.5582

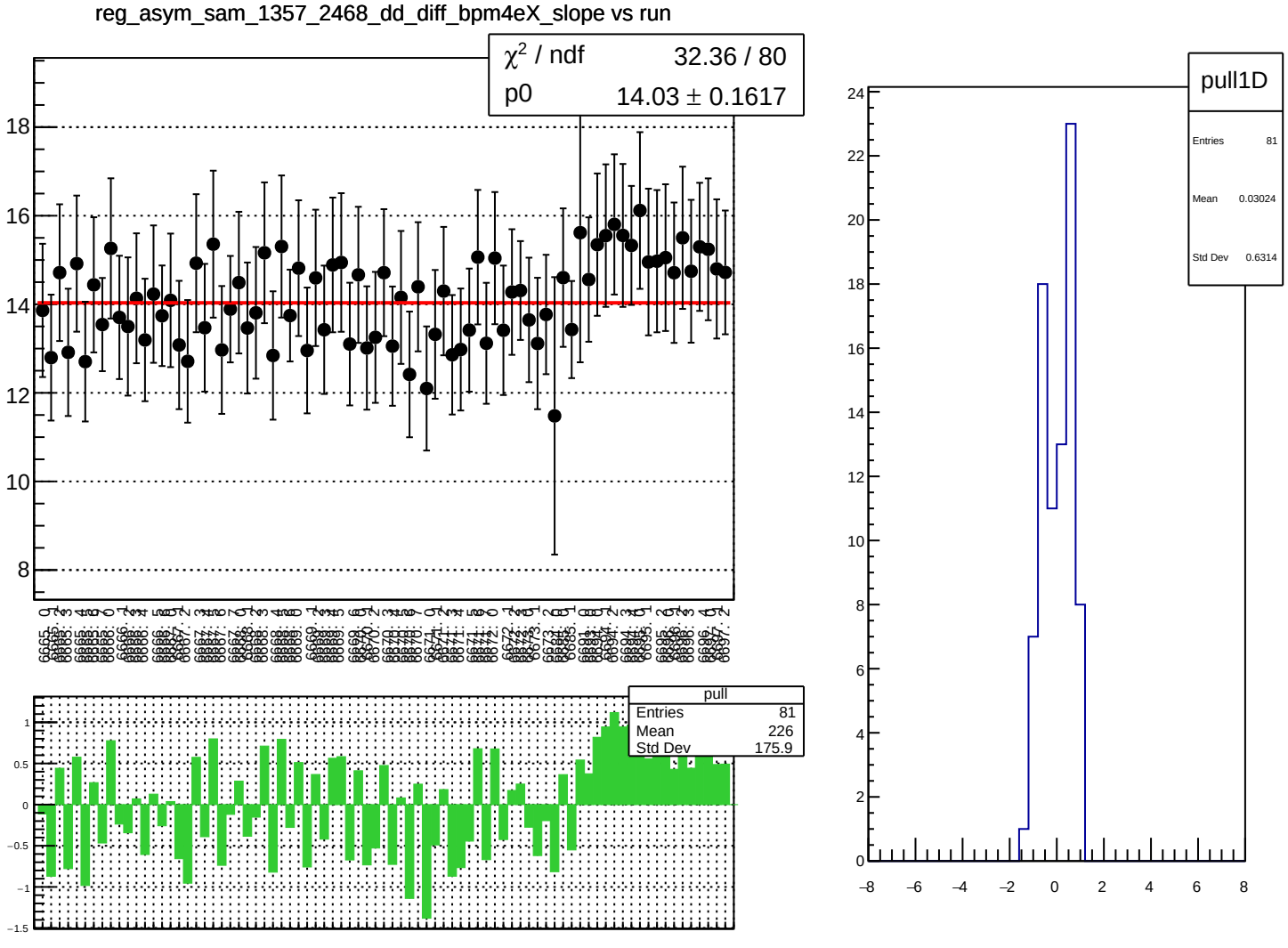

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.43 / 80
p0 −56.64 ± 0.6169
pull
Entries 81
Mean 459
Std Dev 410.5
pull1D
Entries 81
Mean −0.0213
Std Dev 0.7234

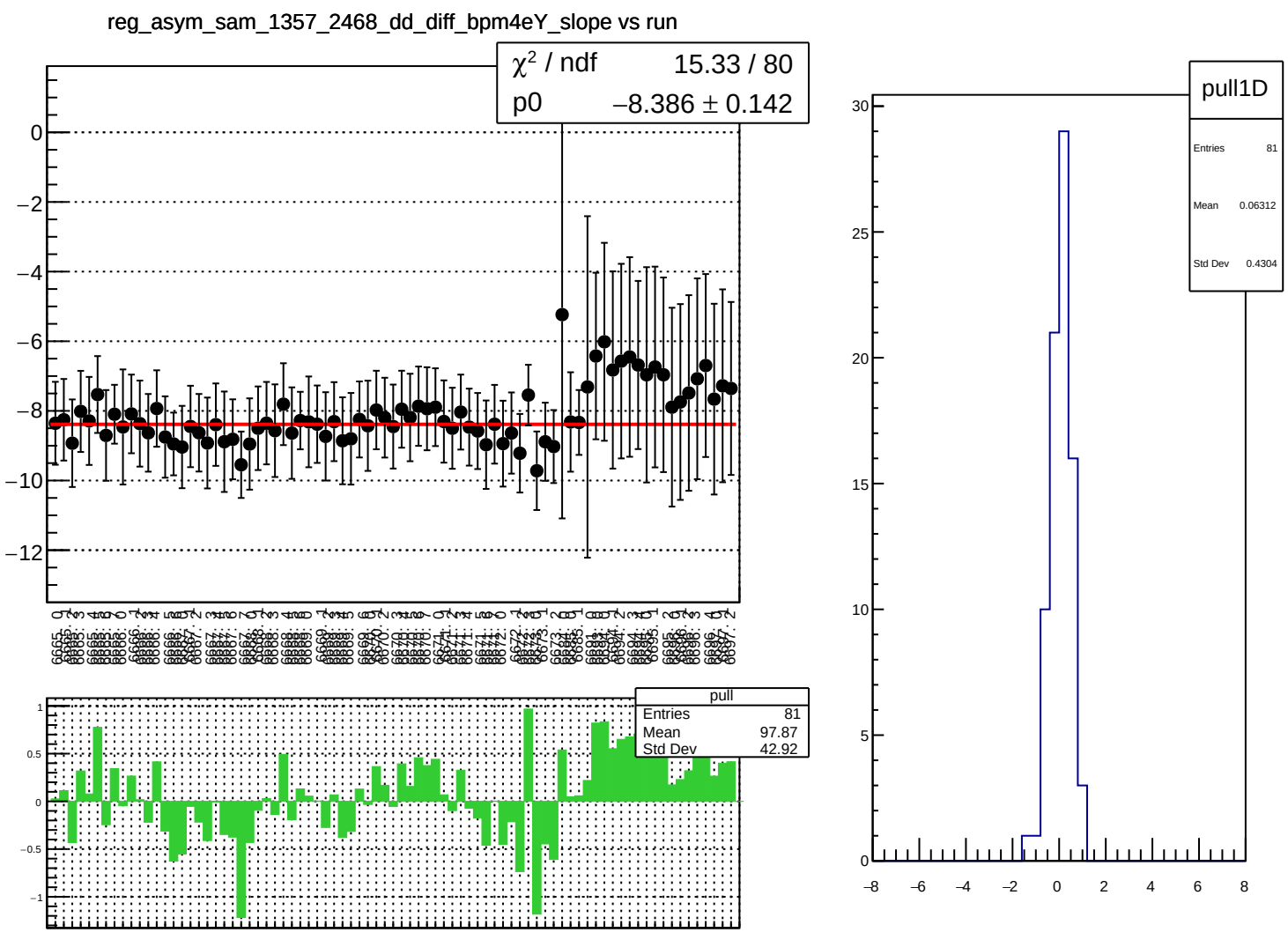

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 37.2 / 80
p0 45.41 ± 0.5448
pull
Entries 81
Mean 102.5
Std Dev 48.59
pull1D
Entries 81
Mean −0.1253
Std Dev 0.666

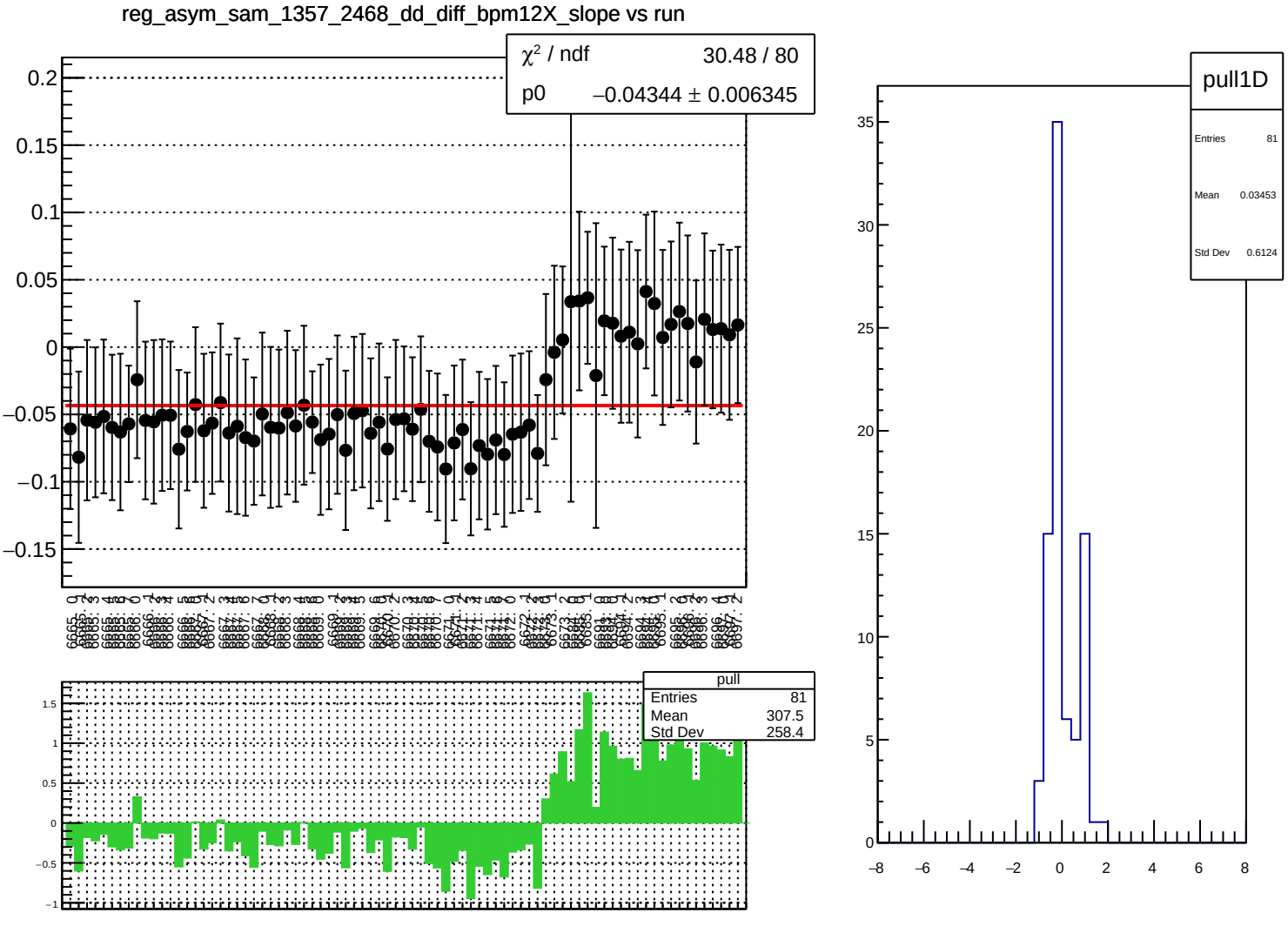

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 78.86 / 80
p0 0.4117 ± 0.02422
pull
Entries 81
Mean 394
Std Dev 345.3
pull1D
Entries 81
Mean −0.04597
Std Dev 0.9856

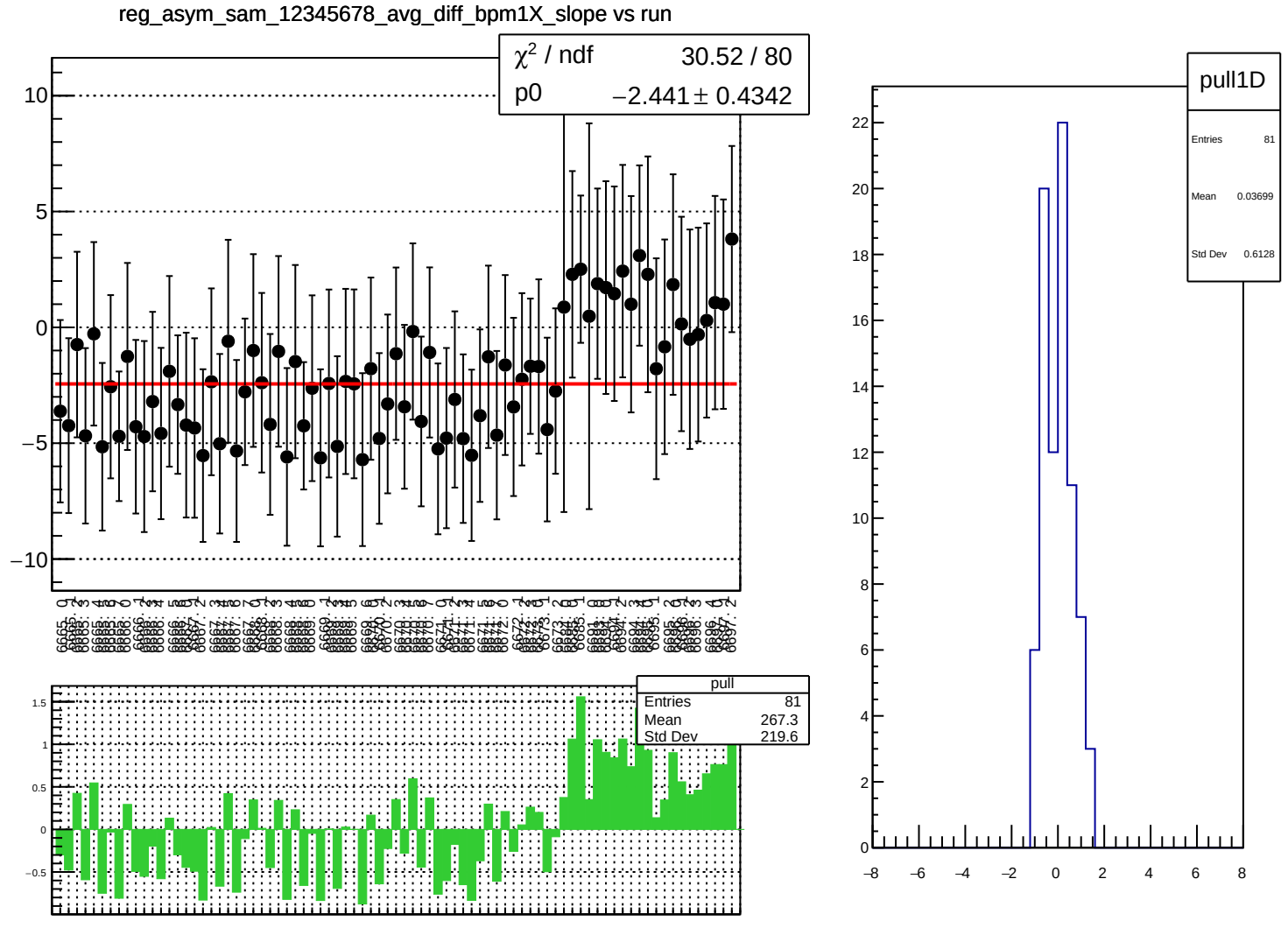

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 17.32 / 80
p0 2.866 ± 0.1522
pull
Entries 81
Mean 129.7
Std Dev 78.07
pull1D
Entries 81
Mean −0.02303
Std Dev 0.4618

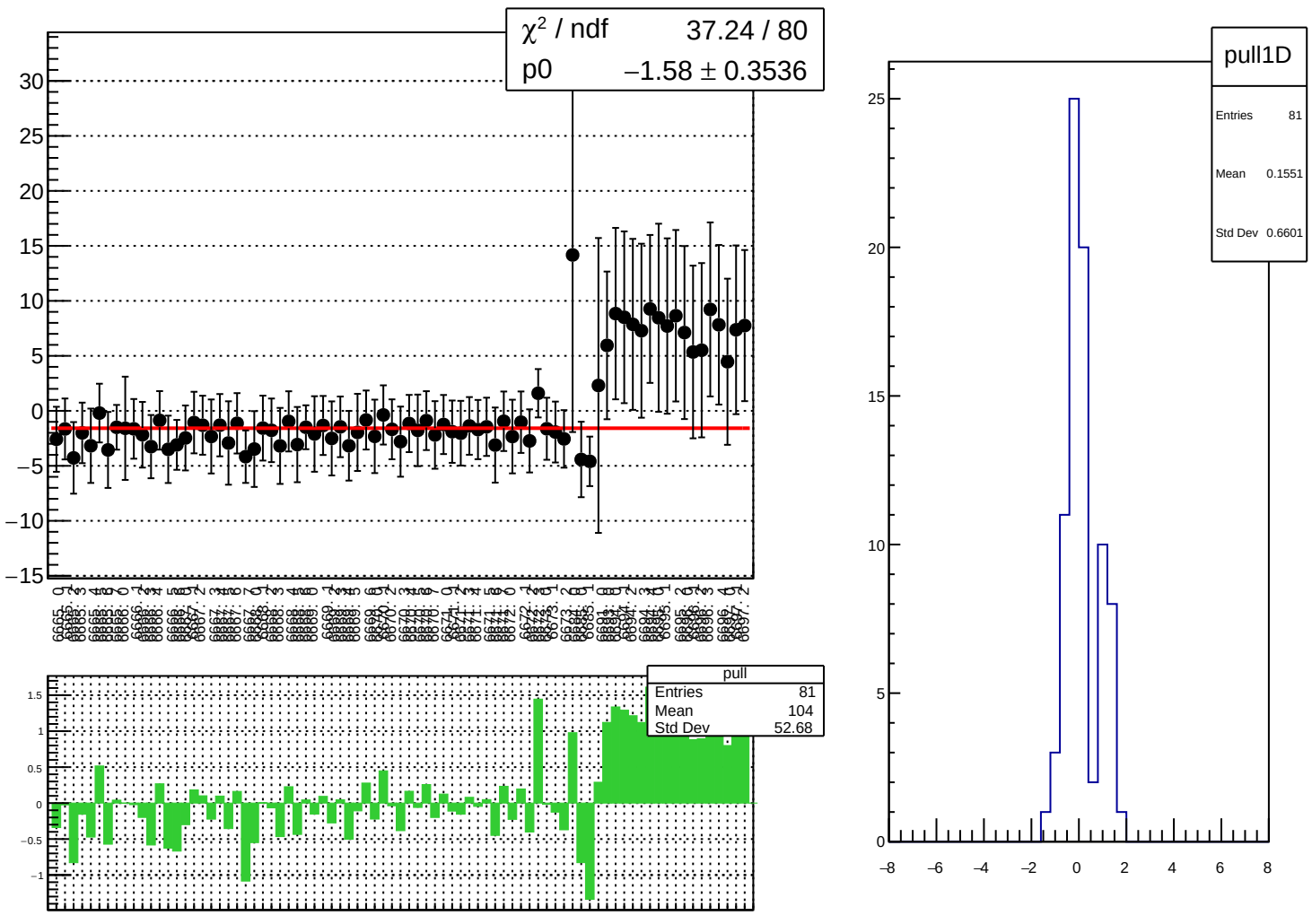

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 7.748 / 80
p0 1.868 ± 0.123
pull
Entries 81
Mean 114.3
Std Dev 67.61
pull1D
Entries 81
Mean −0.04322
Std Dev 0.3062

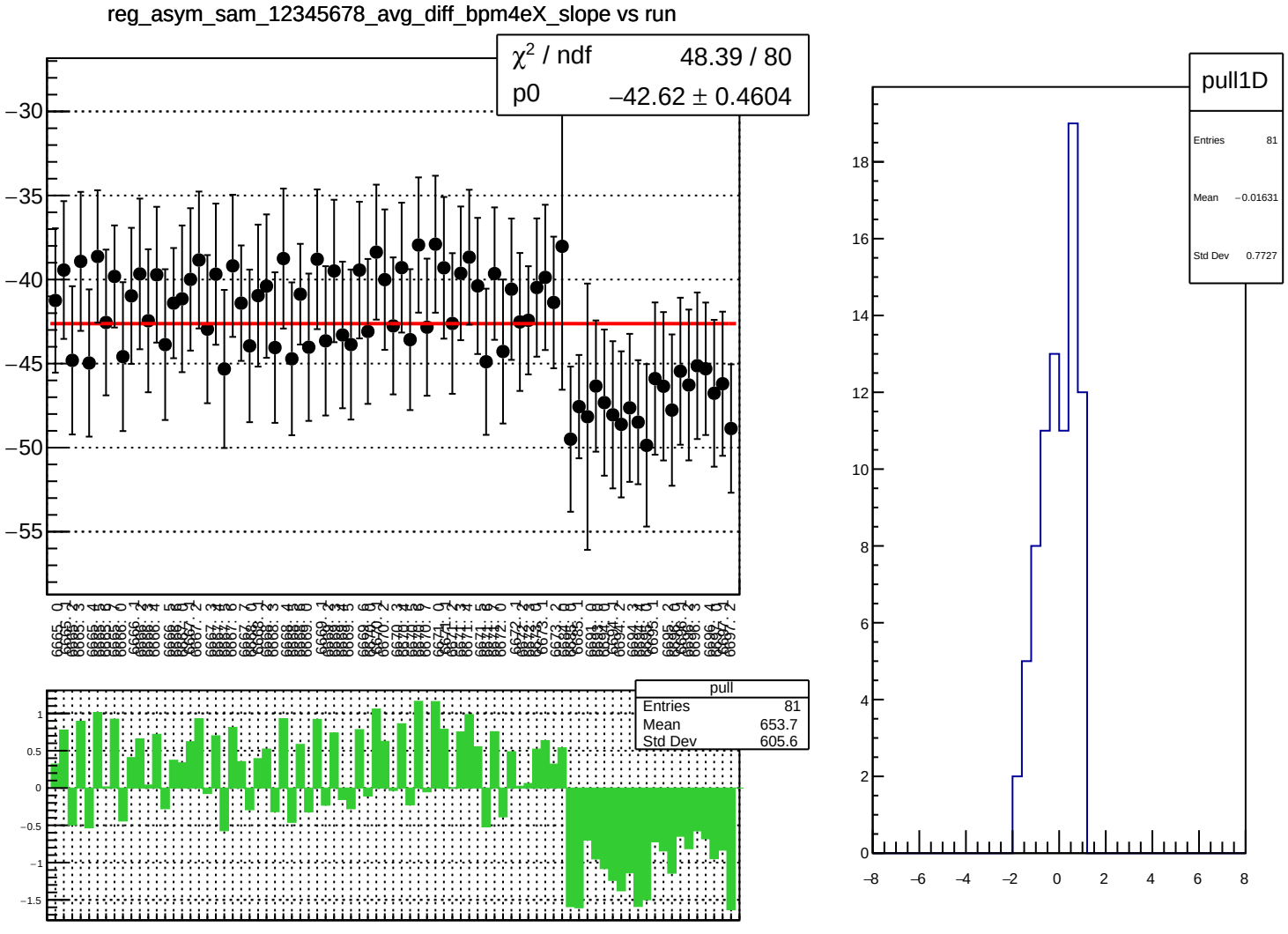

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 32.36 / 80
p0 14.03 ± 0.1617
pull
Entries 81
Mean 226
Std Dev 175.9
pull1D
Entries 81
Mean 0.03024
Std Dev 0.6314

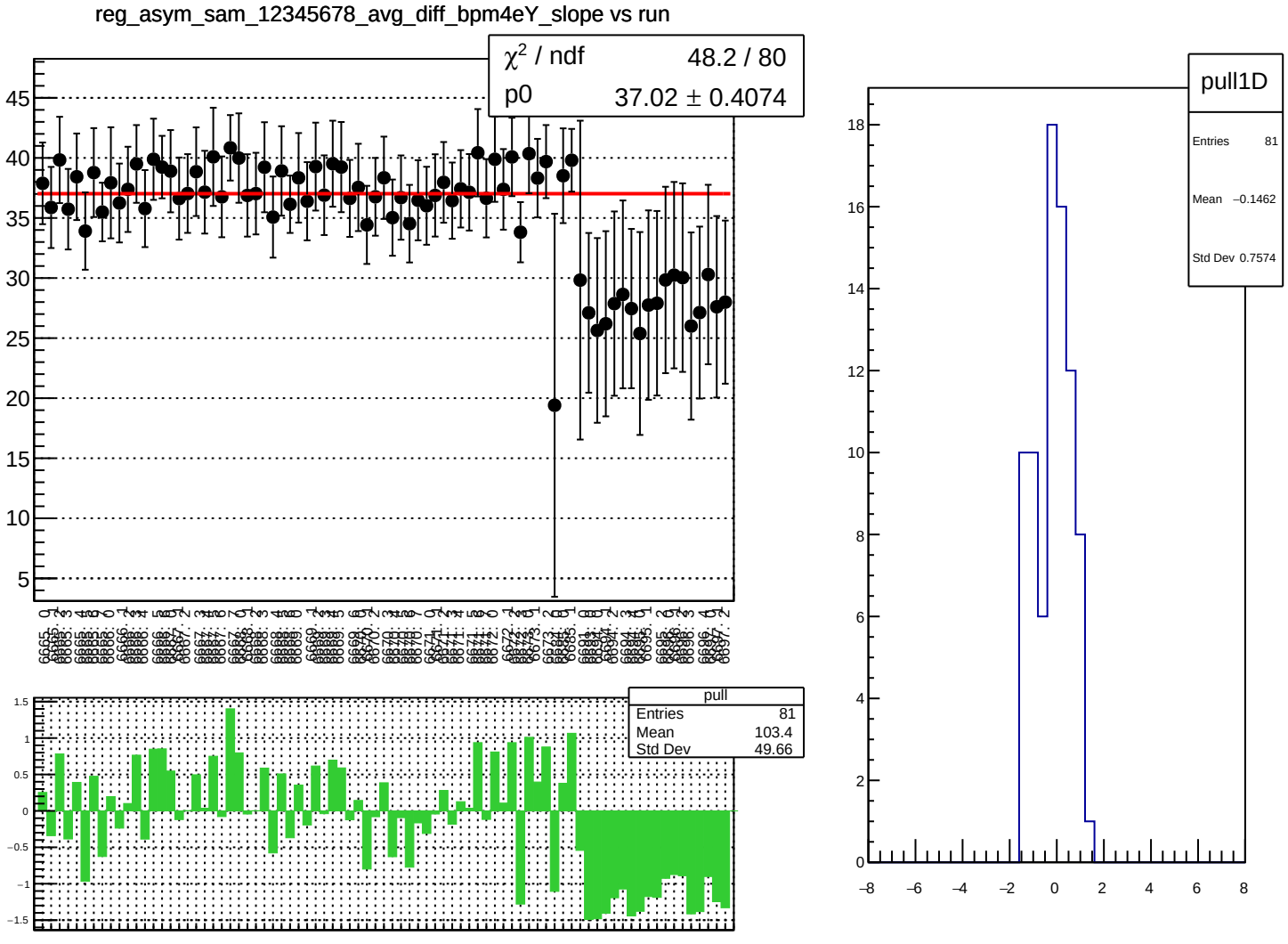

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 15.33 / 80
p0 −8.386 ± 0.142
pull
Entries 81
Mean 97.87
Std Dev 42.92
pull1D
Entries 81
Mean 0.06312
Std Dev 0.4304

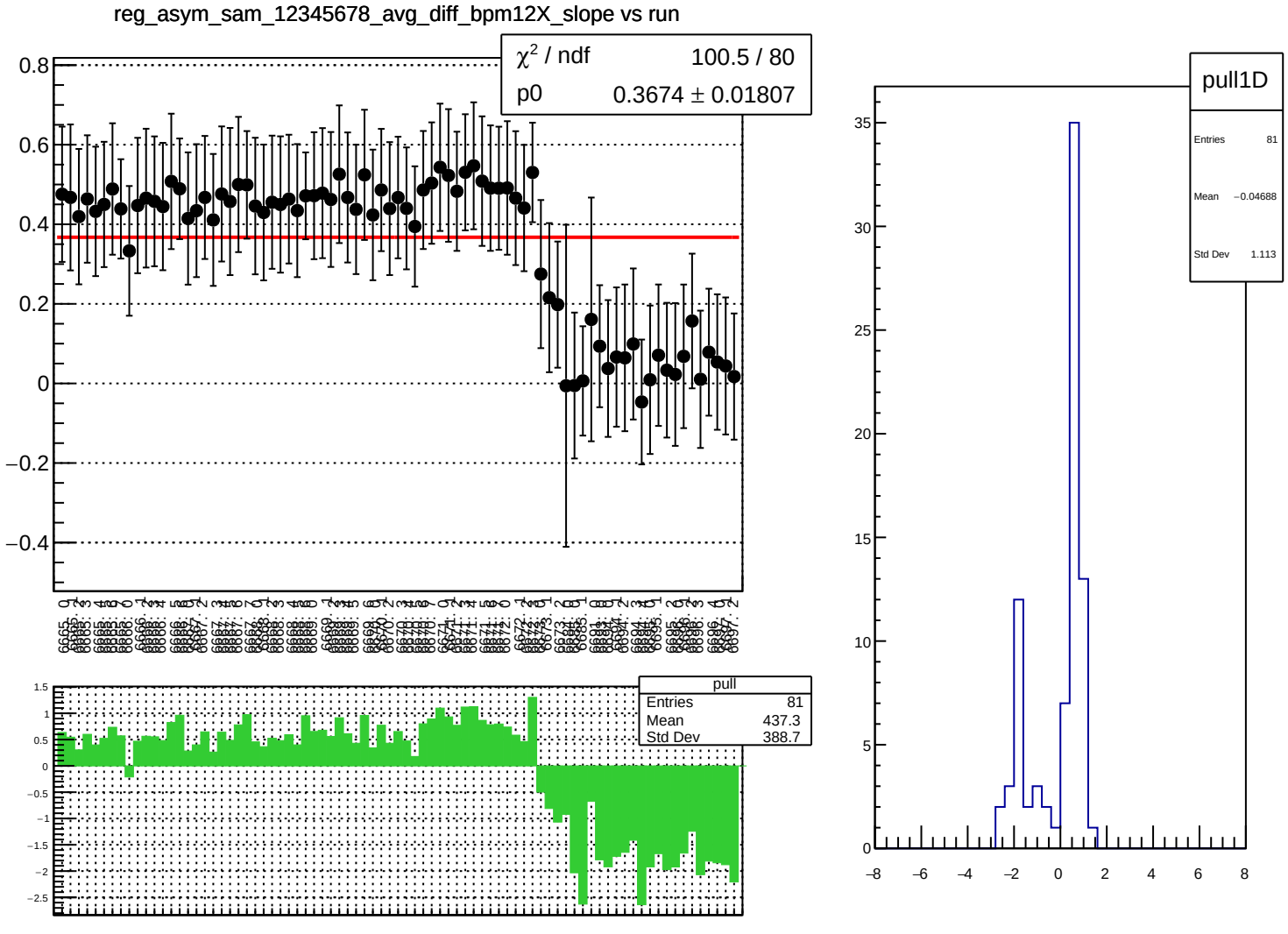

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 30.48 / 80
p0 −0.04344 ± 0.006345
pull
Entries 81
Mean 307.5
Std Dev 258.4
pull1D
Entries 81
Mean 0.03453
Std Dev 0.6124

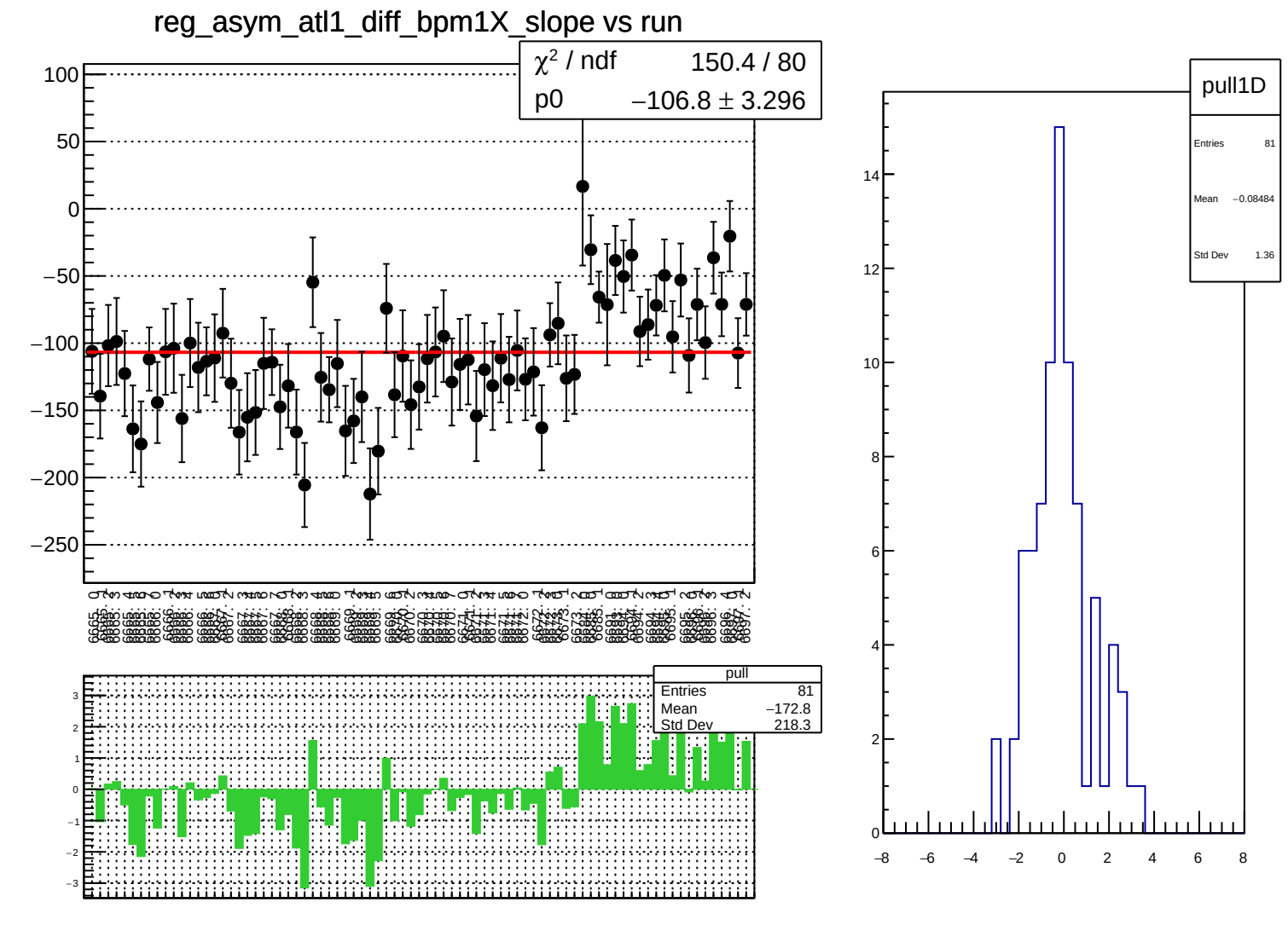

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 30.52 / 80
p0 −2.441 ± 0.4342
pull
Entries 81
Mean 267.3
Std Dev 219.6
pull1D
Entries 81
Mean 0.03699
Std Dev 0.6128

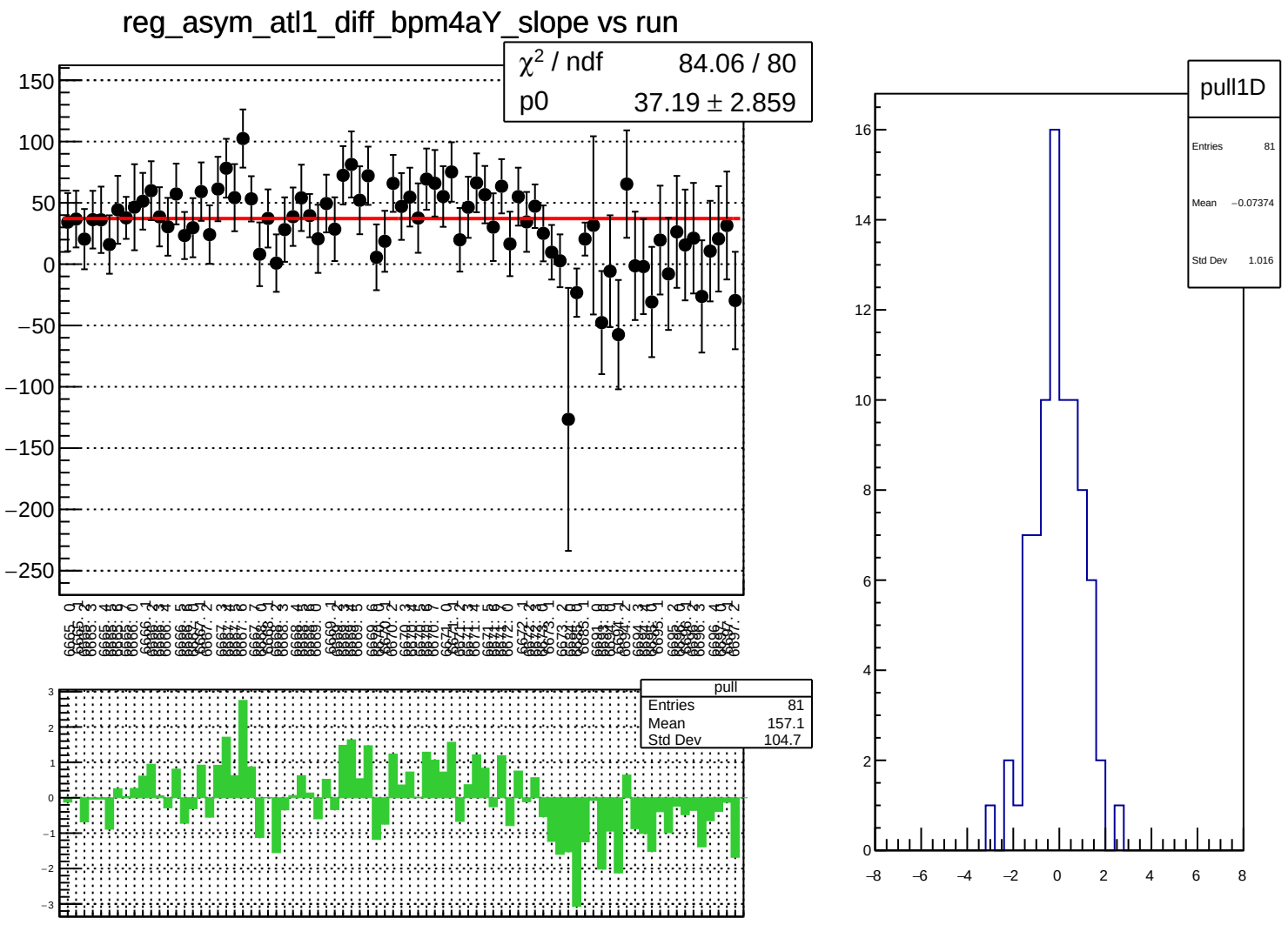

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.24 / 80
p0 −1.58 ± 0.3536
pull
Entries 81
Mean 104
Std Dev 52.68
pull1D
Entries 81
Mean 0.1551
Std Dev 0.6601

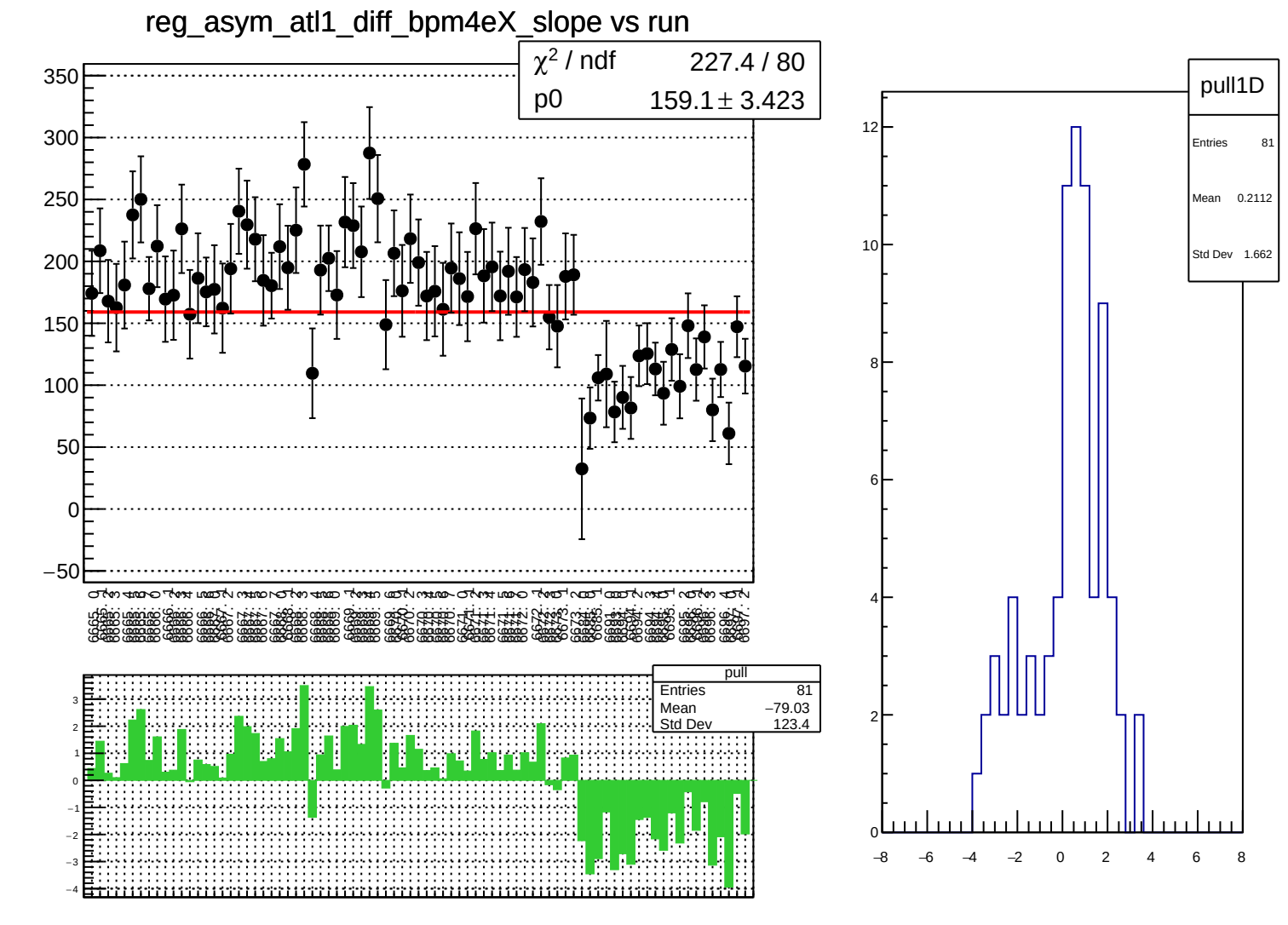

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 48.39 / 80
p0 −42.62 ± 0.4604
pull
Entries 81
Mean 653.7
Std Dev 605.6
pull1D
Entries 81
Mean −0.01631
Std Dev 0.7727

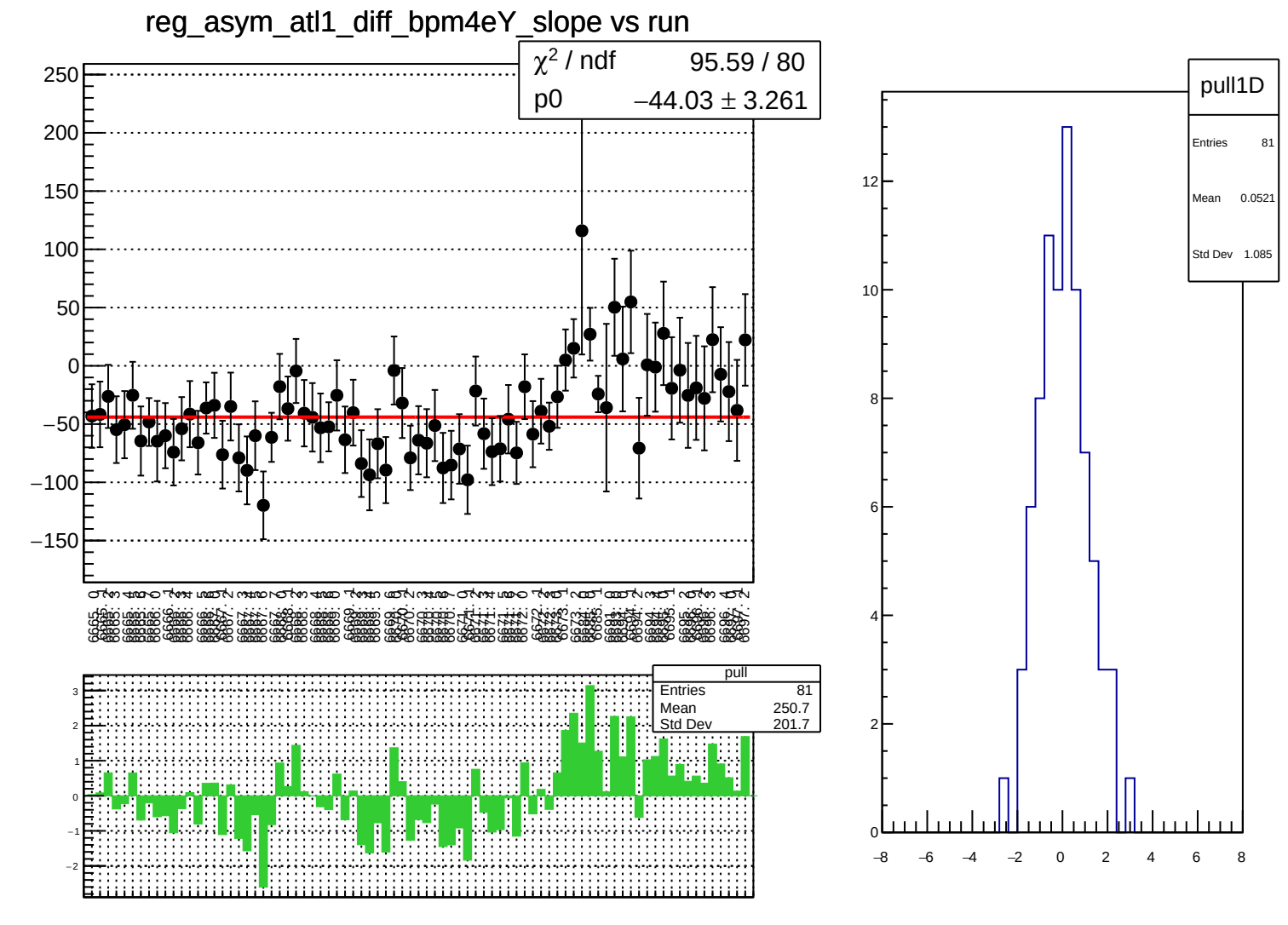

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 48.2 / 80
p0 37.02 ± 0.4074
pull
Entries 81
Mean 103.4
Std Dev 49.66
pull1D
Entries 81
Mean −0.1462
Std Dev 0.7574

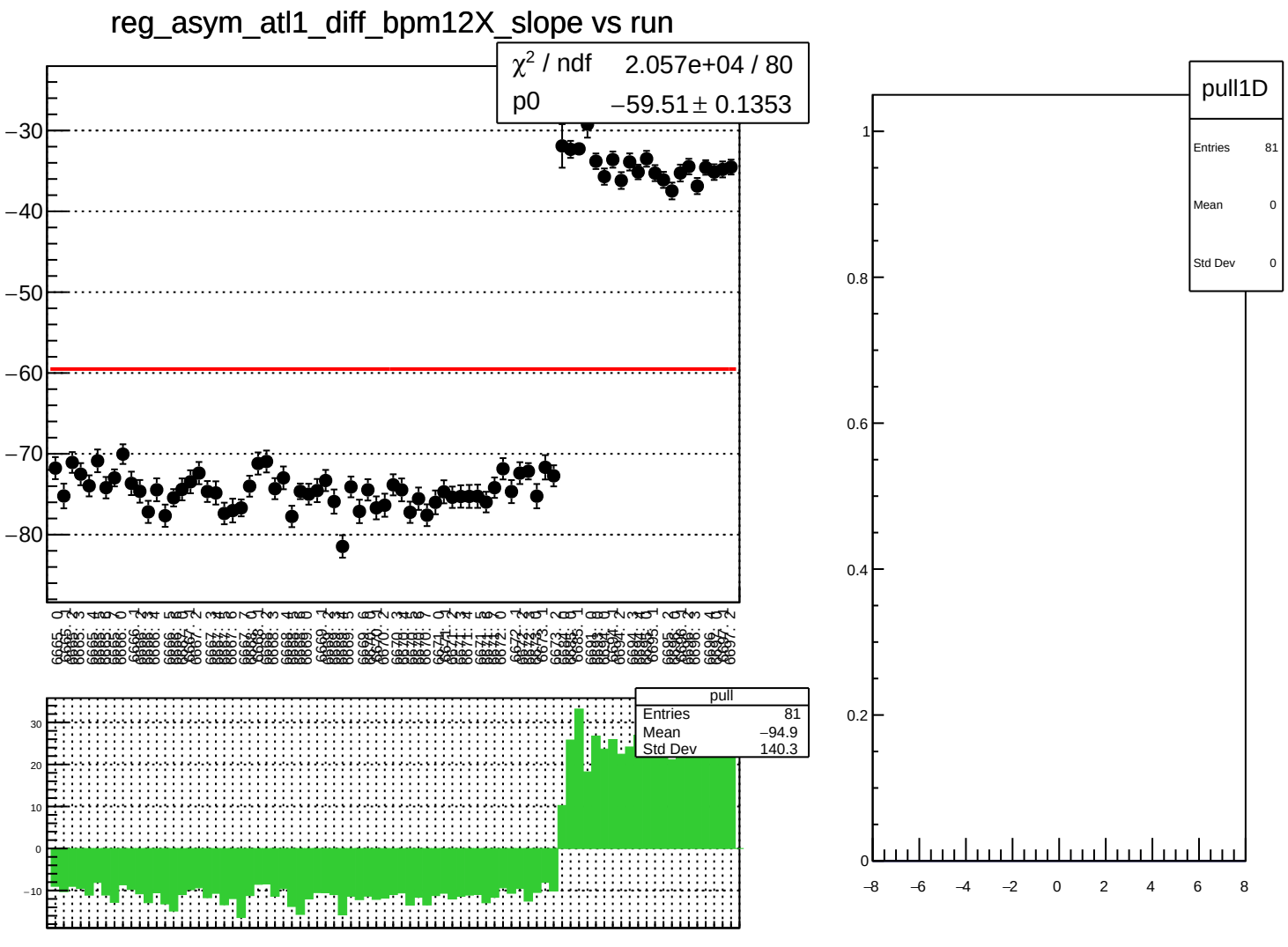

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 80
p0 0.3674 ± 0.01807
pull
Entries 81
Mean 437.3
Std Dev 388.7
pull1D
Entries 81
Mean −0.04688
Std Dev 1.113

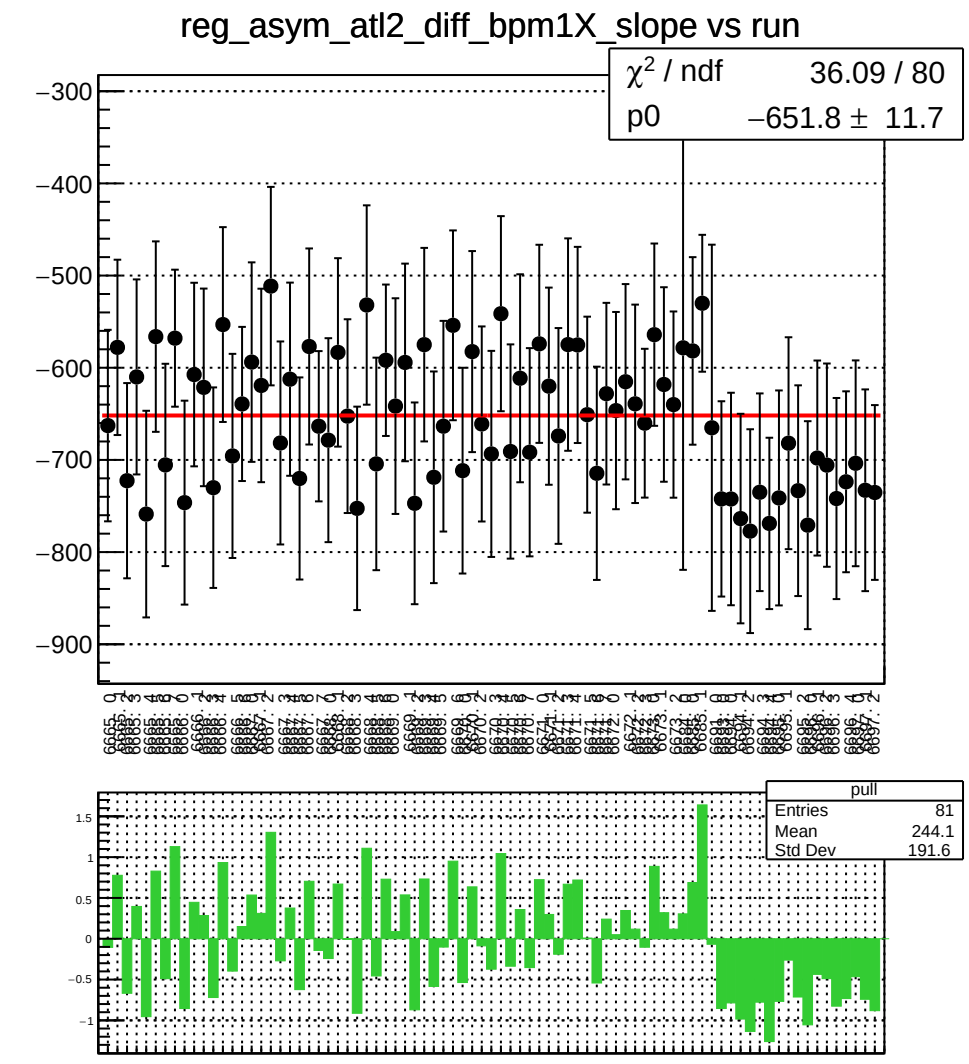

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 150.4 / 80
p0 −106.8 ± 3.296
pull
Entries 81
Mean −172.8
Std Dev 218.3
pull1D
Entries 81
Mean −0.08484
Std Dev 1.36

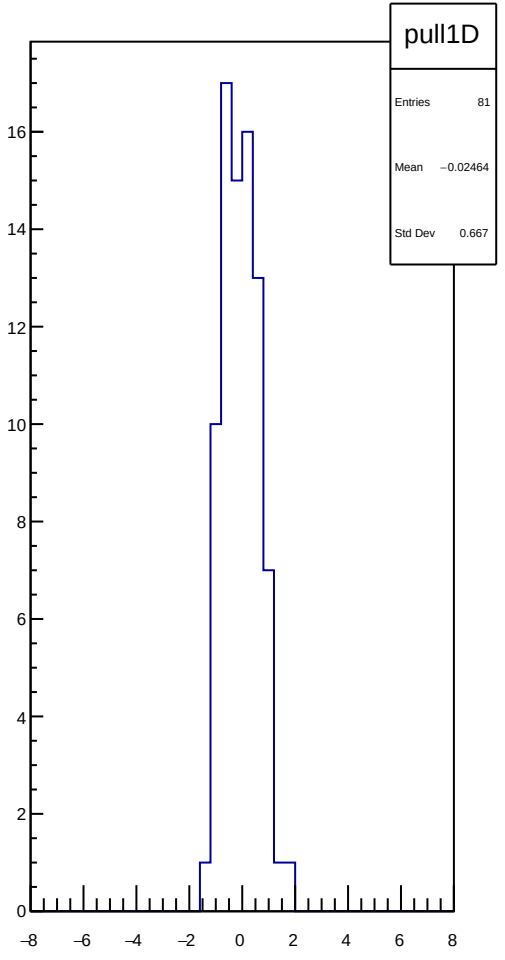

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 84.06 / 80
p0 37.19 ± 2.859
pull
Entries 81
Mean 157.1
Std Dev 104.7
pull1D
Entries 81
Mean −0.07374
Std Dev 1.016

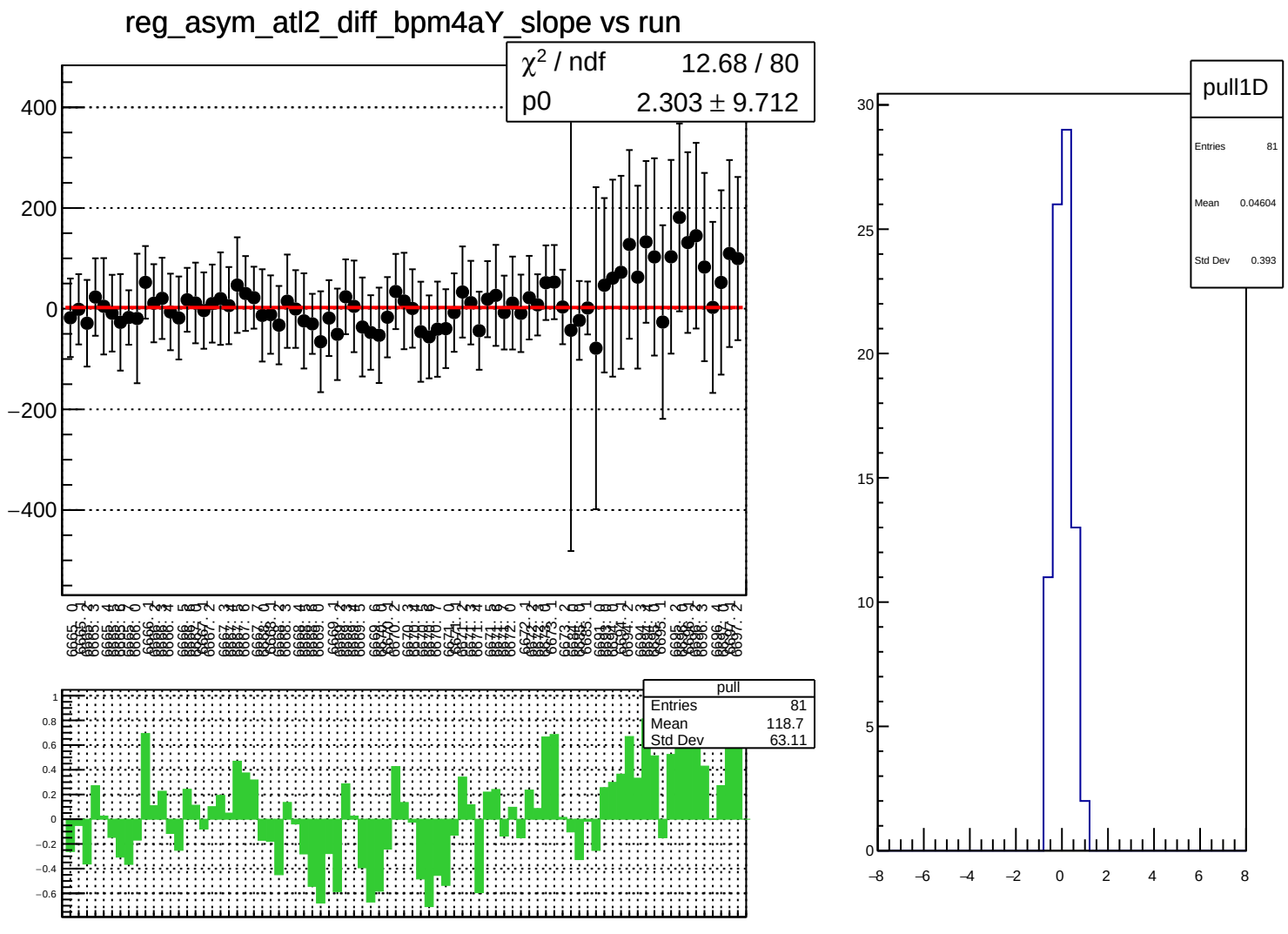

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 227.4 / 80
p0 159.1 ± 3.423
pull
Entries 81
Mean −79.03
Std Dev 123.4
pull1D
Entries 81
Mean 0.2112
Std Dev 1.662

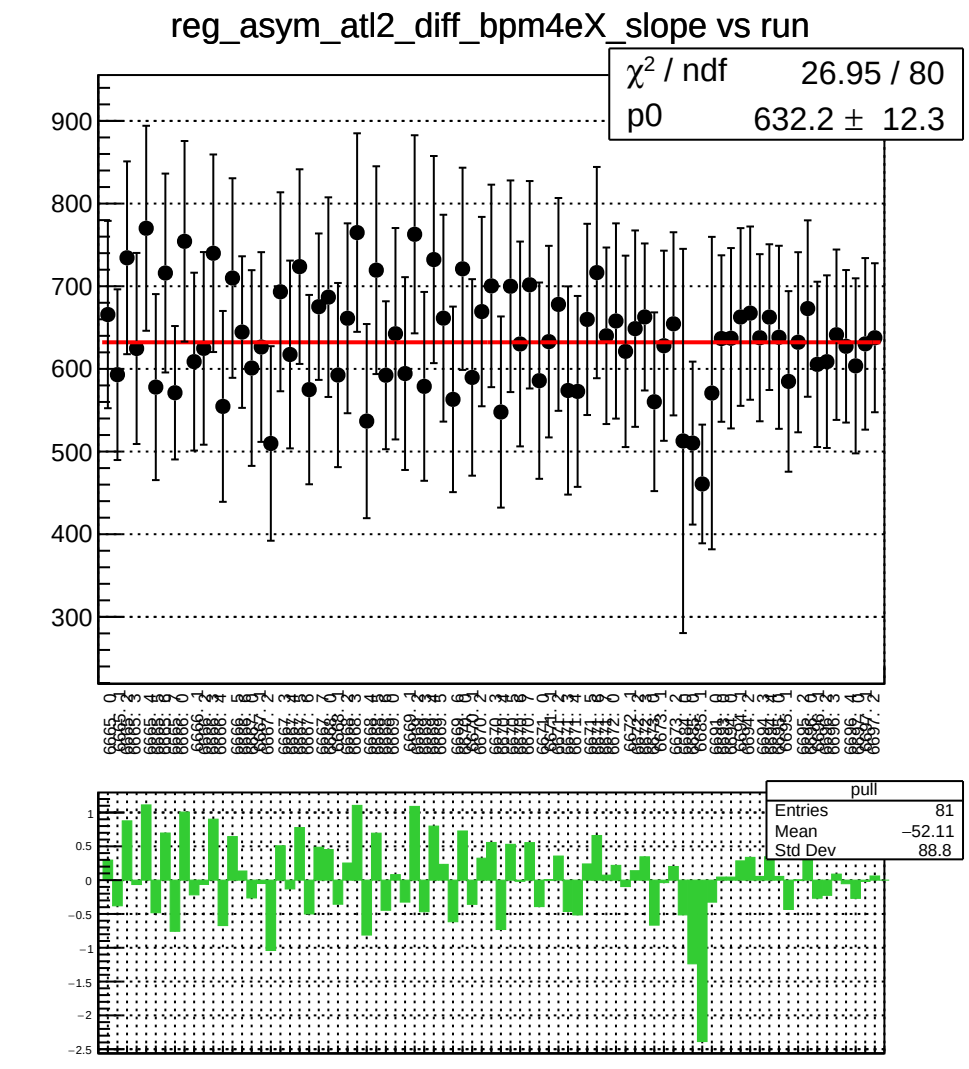

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 95.59 / 80
p0 −44.03 ± 3.261
pull
Entries 81
Mean 250.7
Std Dev 201.7
pull1D
Entries 81
Mean 0.0521
Std Dev 1.085

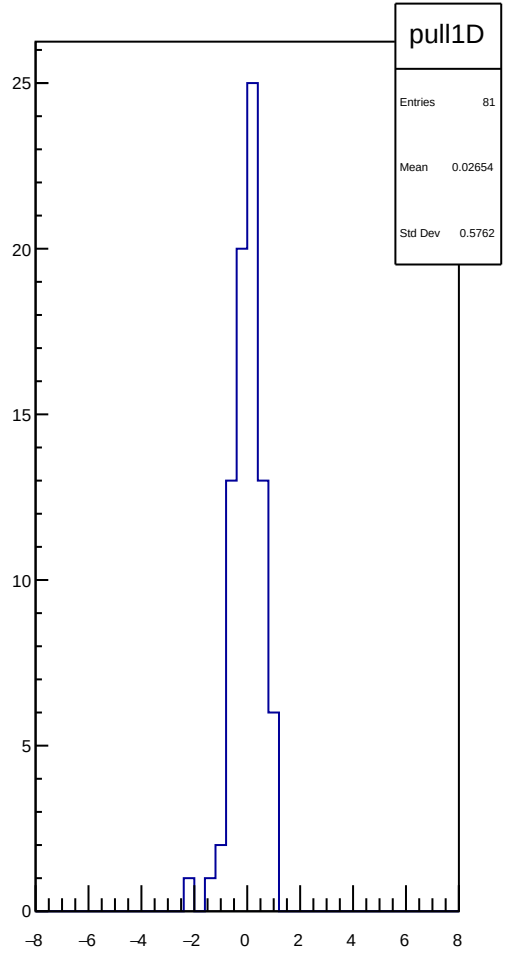

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 2.057e+04 / 80
p0 −59.51 ± 0.1353
−30
−40
−50
−60
−70
−80
pull
Entries 81
Mean −94.9
Std Dev 140.3
30
20
10
0
−10
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

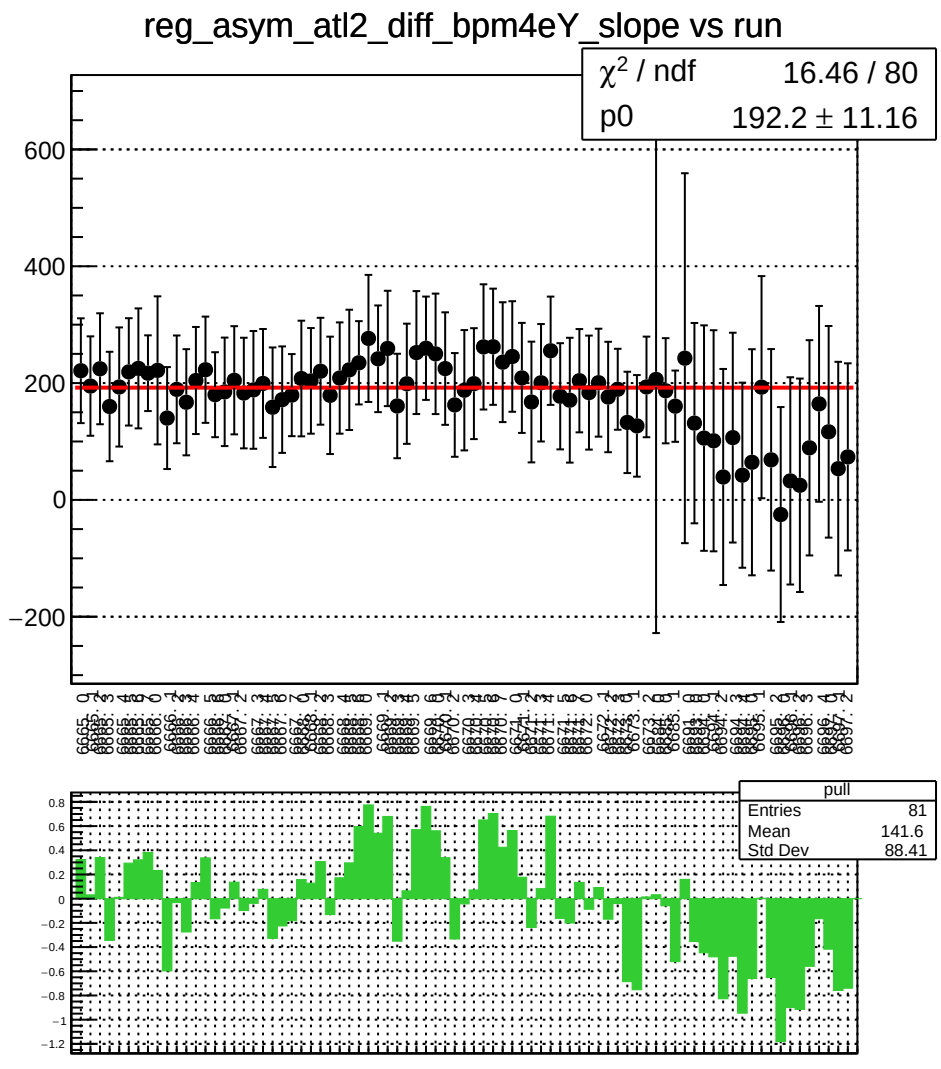

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 36.09 / 80
p0 −651.8 ± 11.7
pull
Entries 81
Mean 244.1
Std Dev 191.6

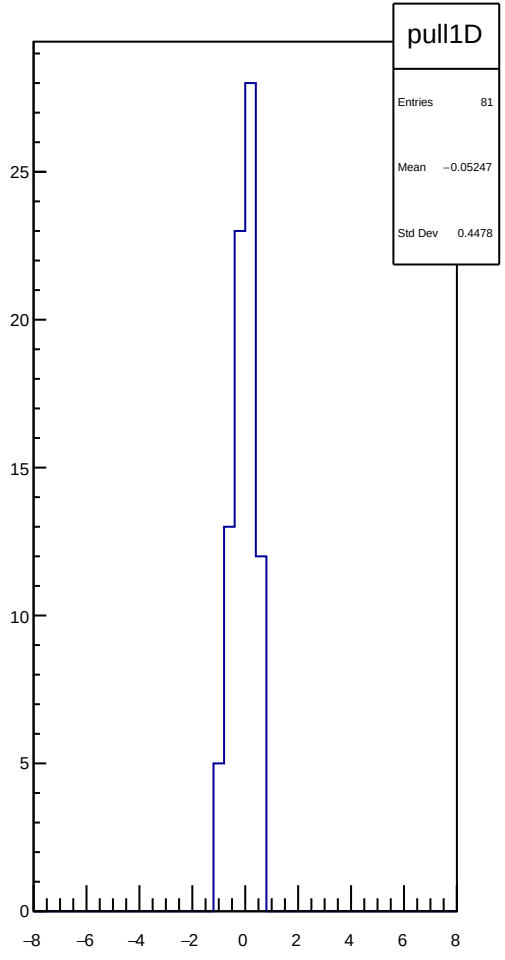

pull1D
Entries 81
Mean −0.02464
Std Dev 0.667

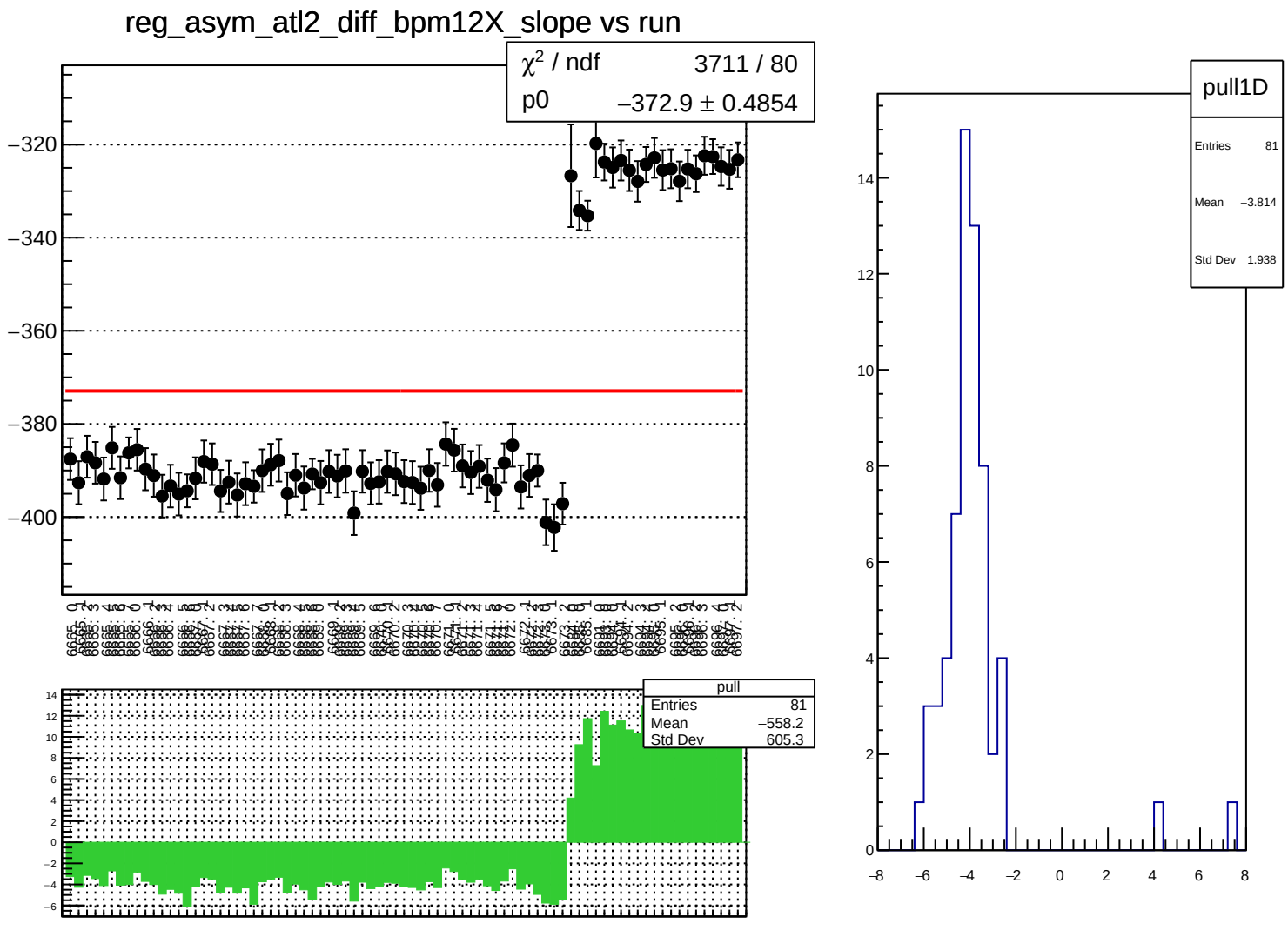

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 12.68 / 80
p0 2.303 ± 9.712
400
200
0
−200
−400
pull
Entries 81
Mean 118.7
Std Dev 63.11
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 81
Mean 0.04604
Std Dev 0.393
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

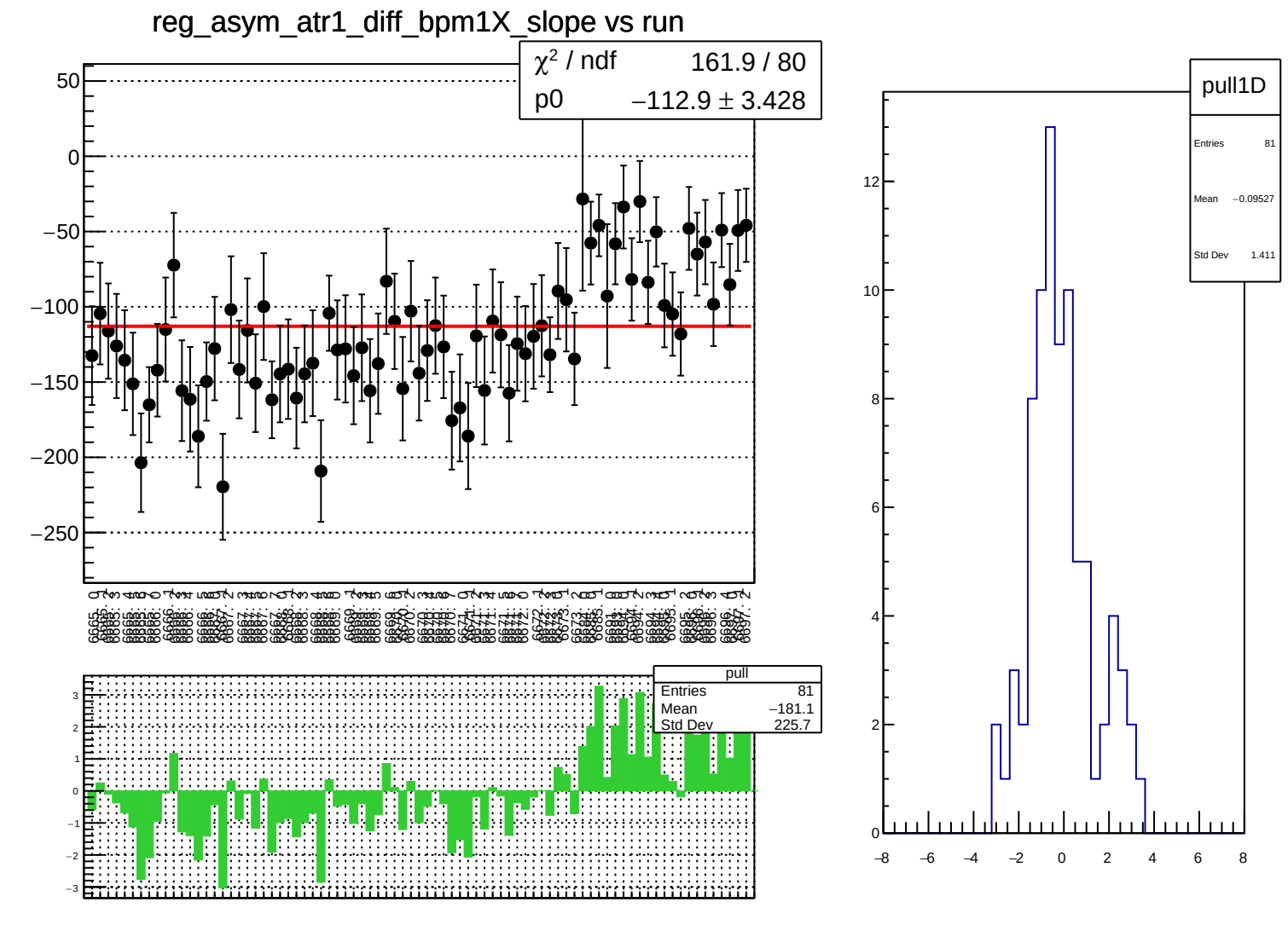

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 26.95 / 80
p0 632.2 ± 12.3
900
800
700
600
500
400
300
pull
Entries 81
Mean −52.11
Std Dev 88.8
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

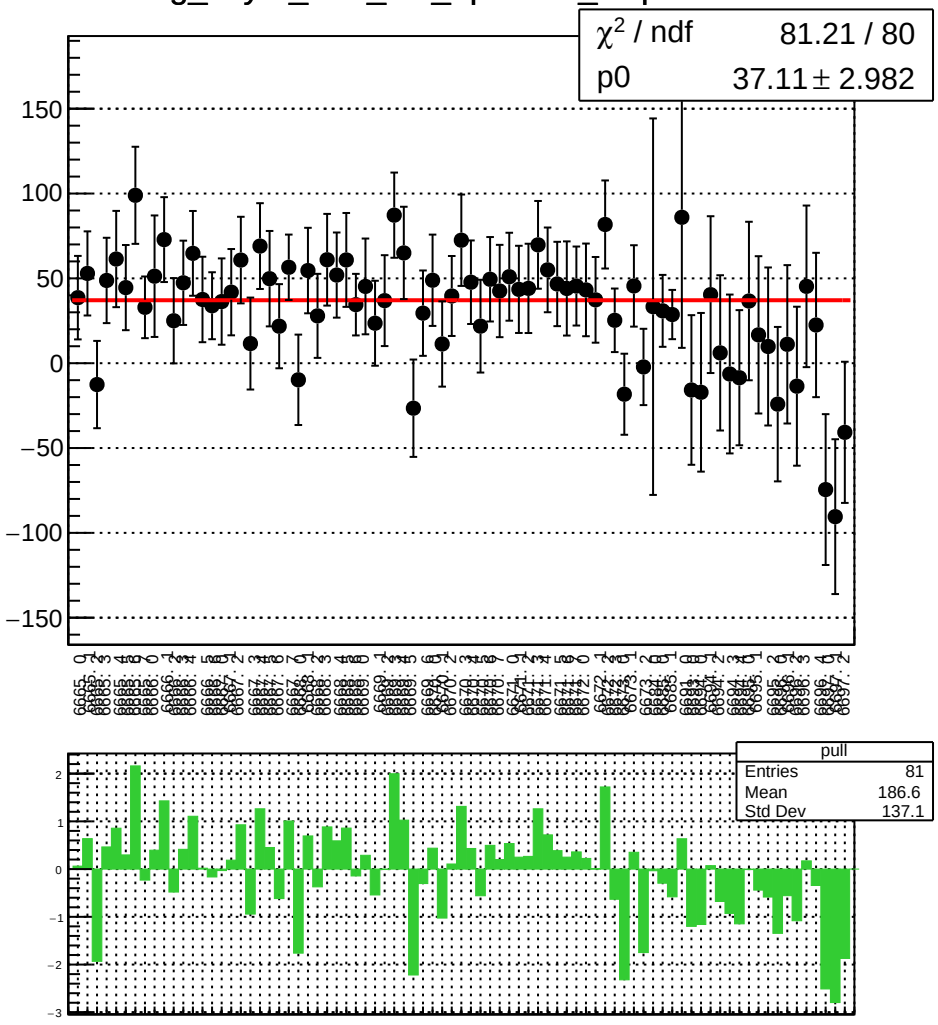

pull1D
Entries 81
Mean 0.02654
Std Dev 0.5762
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

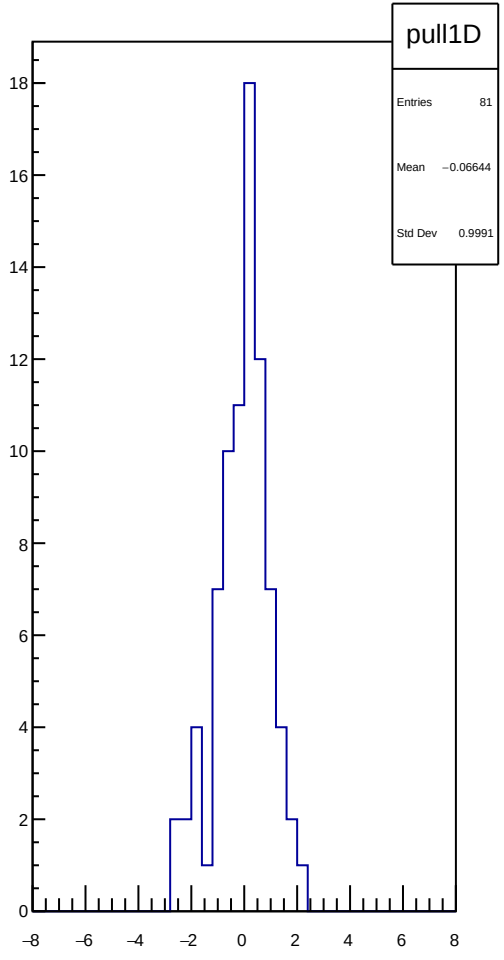

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 16.46 / 80
p0 192.2 ± 11.16
600
400
200
0
−200
pull
Entries 81
Mean 141.6
Std Dev 88.41
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

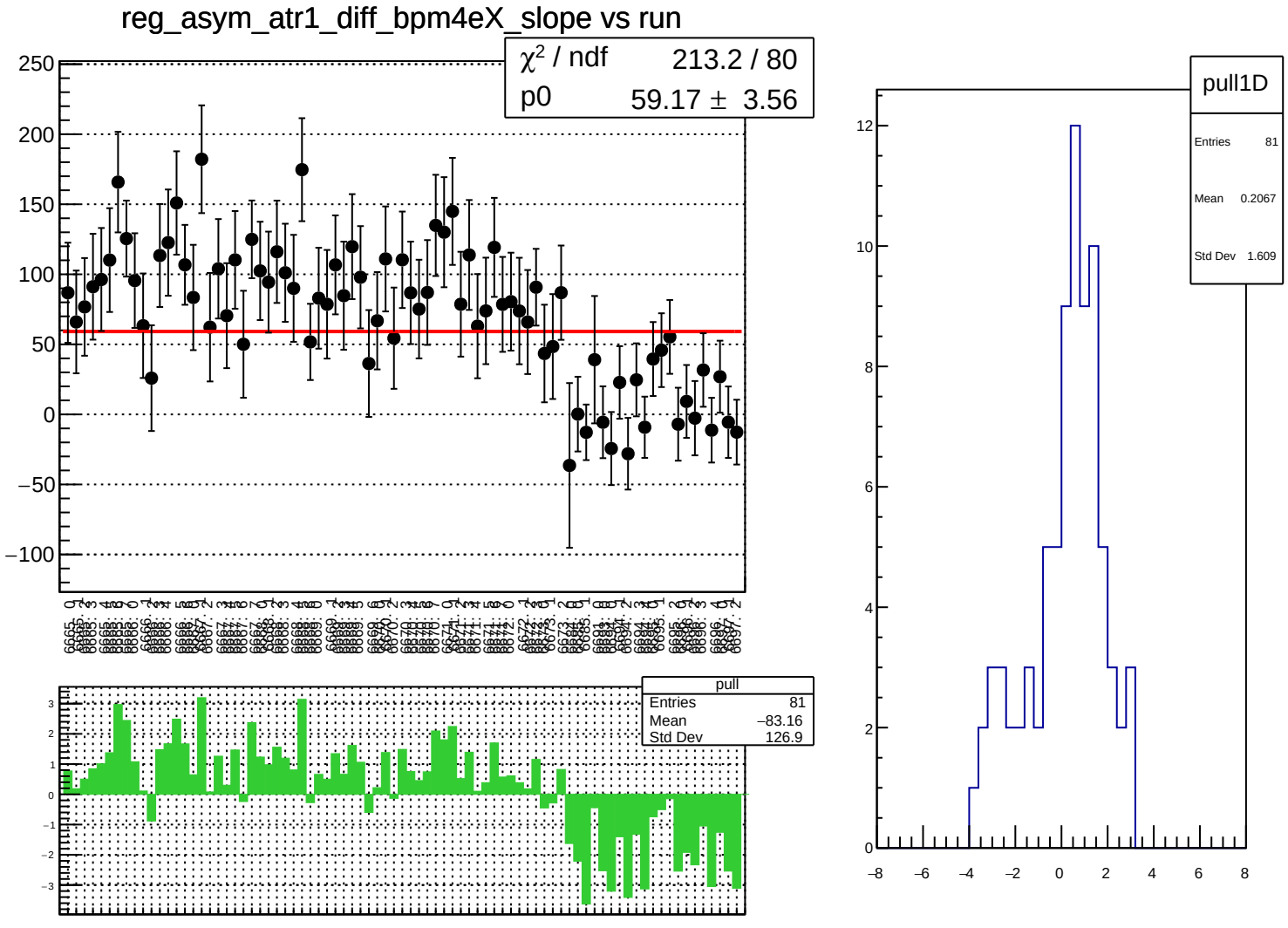

pull1D
Entries 81
Mean −0.05247
Std Dev 0.4478
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

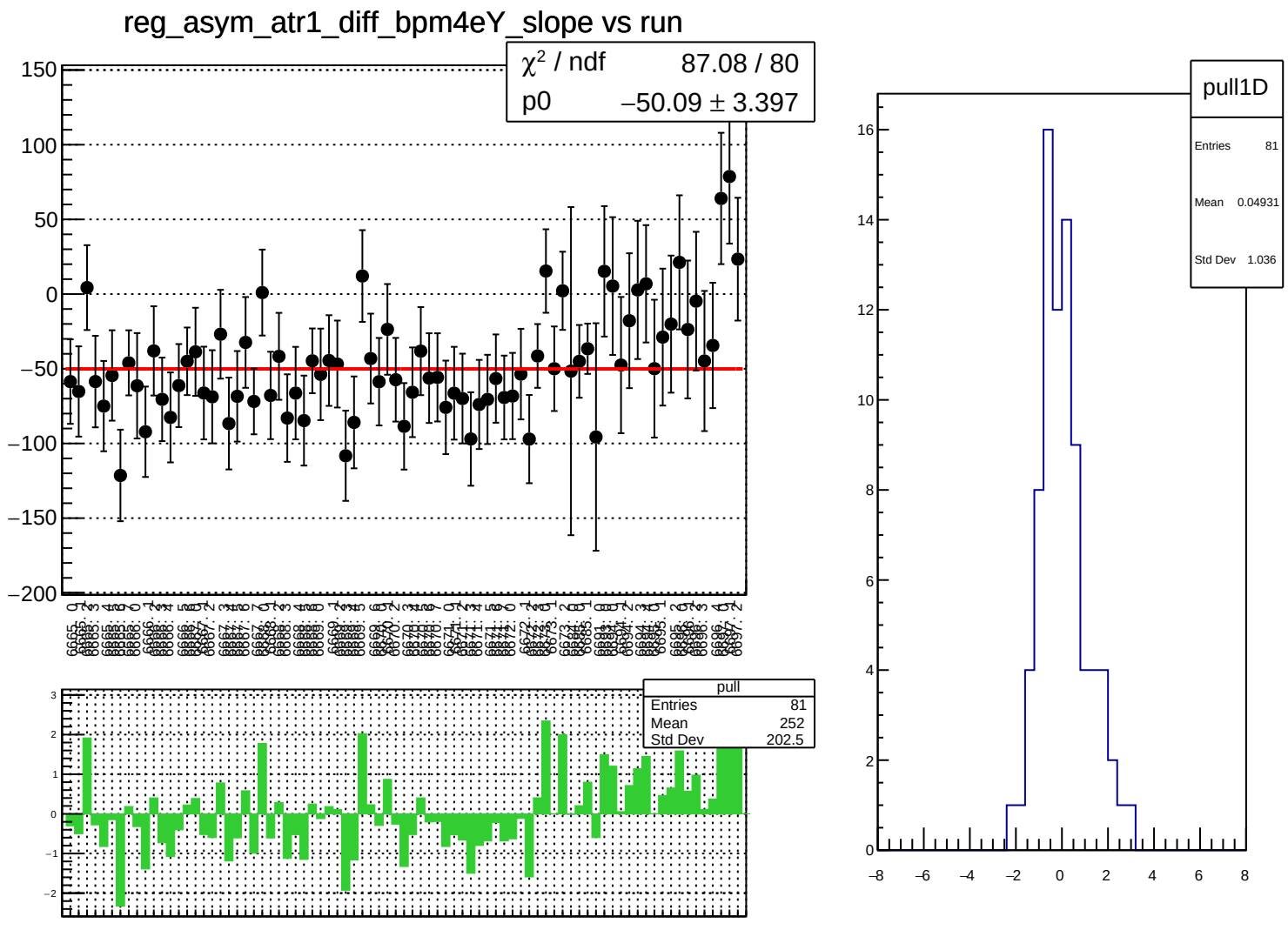

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 3711 / 80
p0 −372.9 ± 0.4854
−320
−340
−360
−380
−400
pull
Entries 81
Mean −558.2
Std Dev 605.3
pull1D
Entries 81
Mean −3.814
Std Dev 1.938

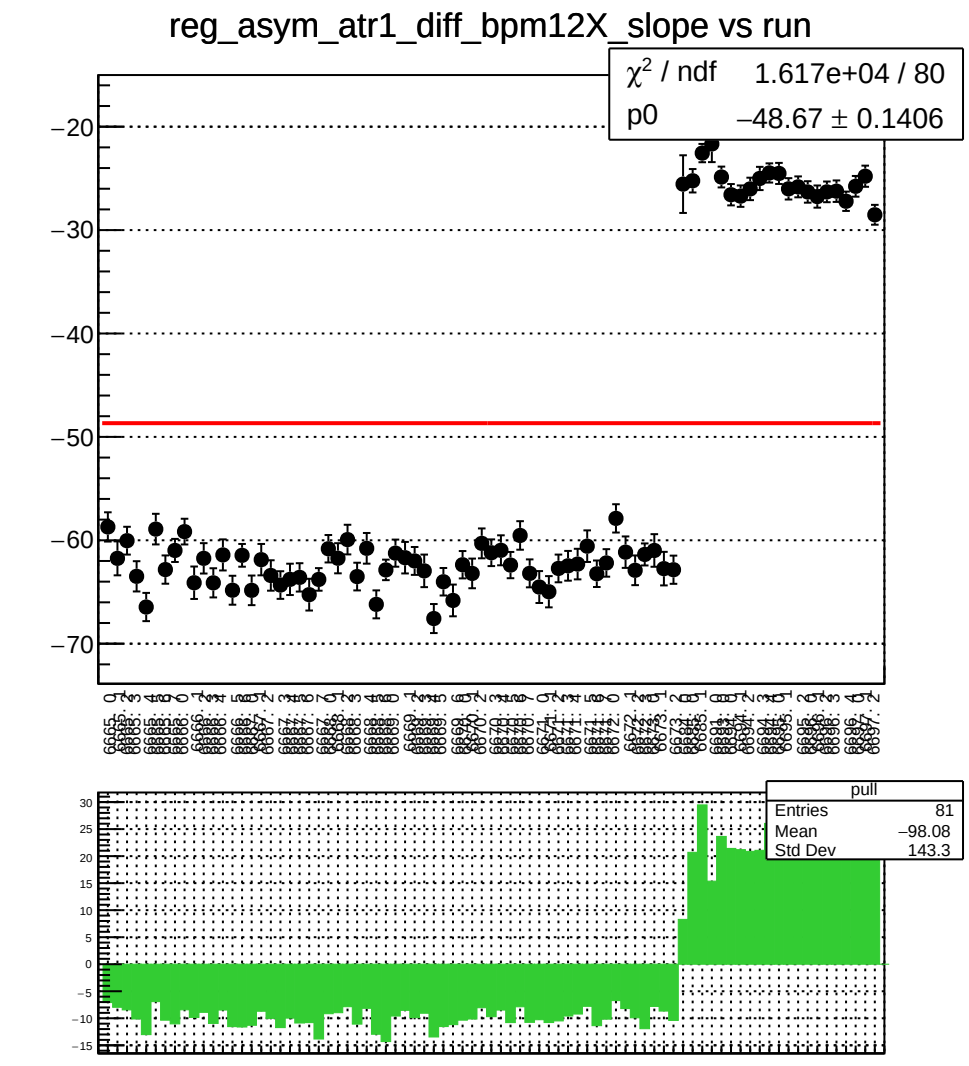

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 161.9 / 80
p0 −112.9 ± 3.428
pull
Entries 81
Mean −181.1
Std Dev 225.7
pull1D
Entries 81
Mean −0.09527
Std Dev 1.411

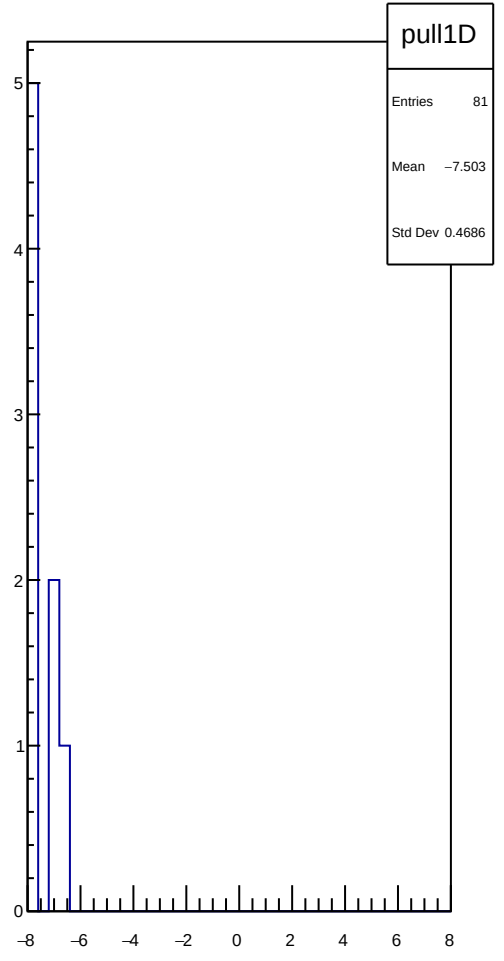

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 81.21 / 80
p0 37.11 ± 2.982
150
100
50
0
−50
−100
−150
pull
Entries 81
Mean 186.6
Std Dev 137.1
2
1
0
−1
−2
−3

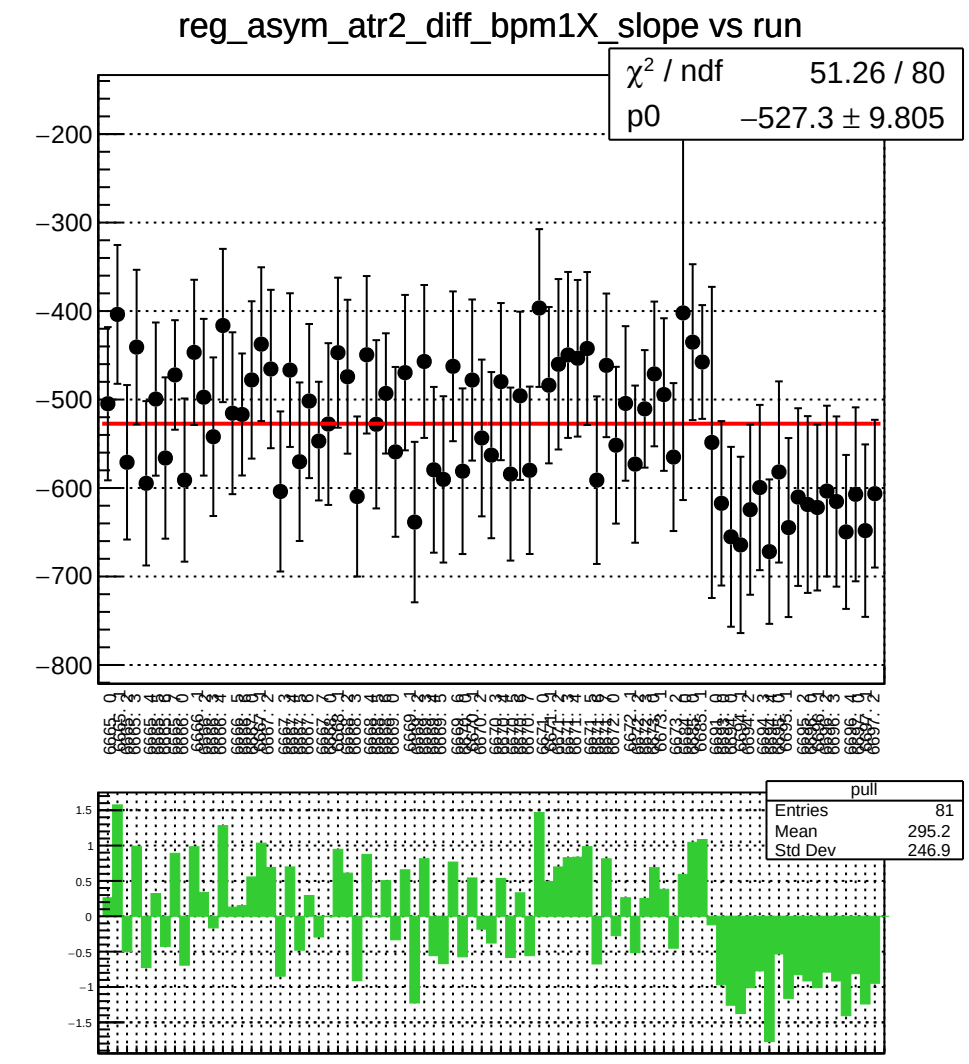

pull1D
Entries 81
Mean −0.06644
Std Dev 0.9991
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

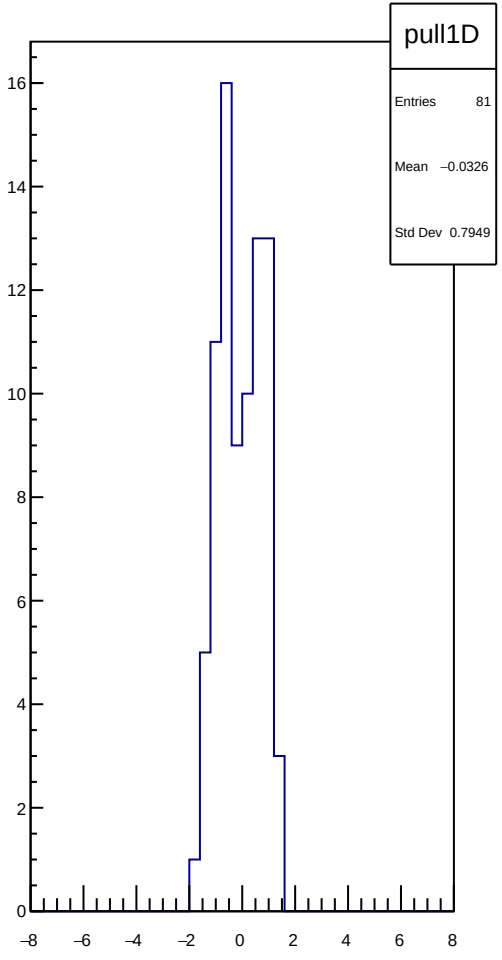

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 213.2 / 80
p0 59.17 ± 3.56
pull
Entries 81
Mean −83.16
Std Dev 126.9
pull1D
Entries 81
Mean 0.2067
Std Dev 1.609

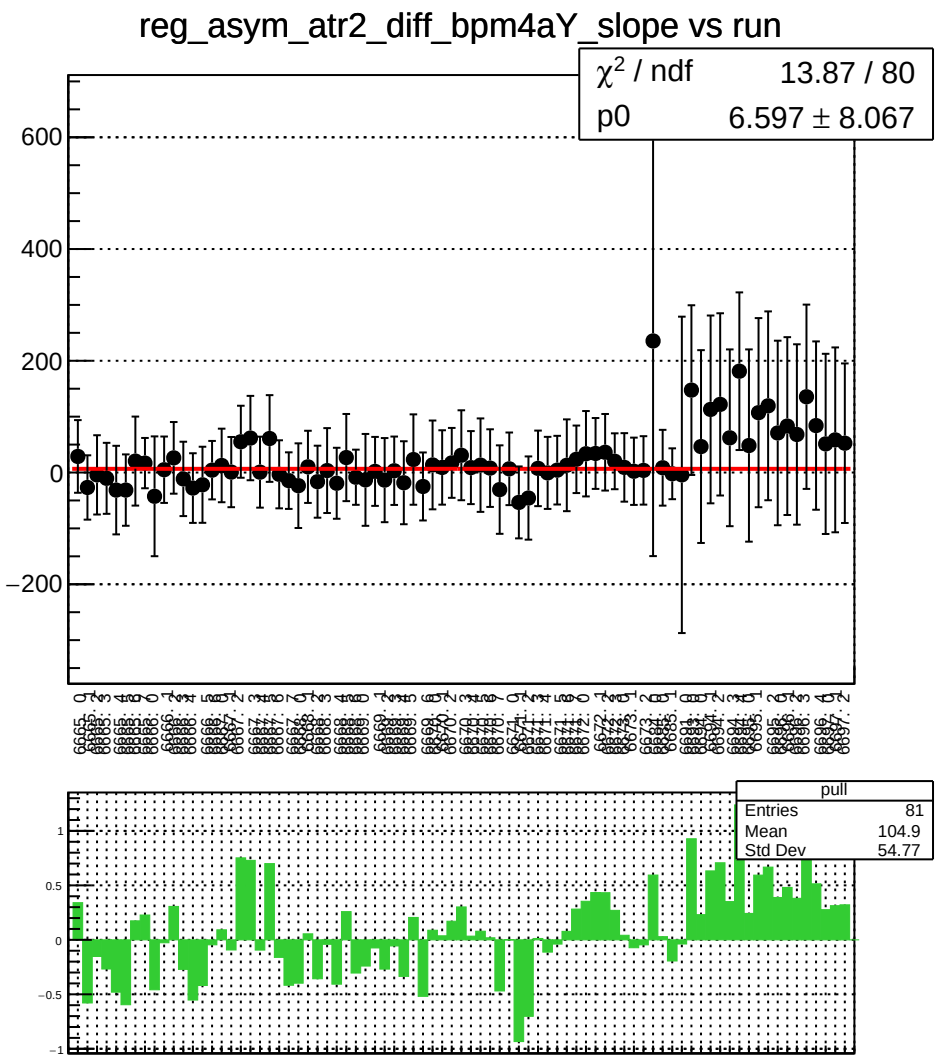

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 87.08 / 80
p0 −50.09 ± 3.397
150
100
50
0
−50
−100
−150
−200
pull
Entries 81
Mean 252
Std Dev 202.5
3
2
1
0
−1
−2
pull1D
Entries 81
Mean 0.04931
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

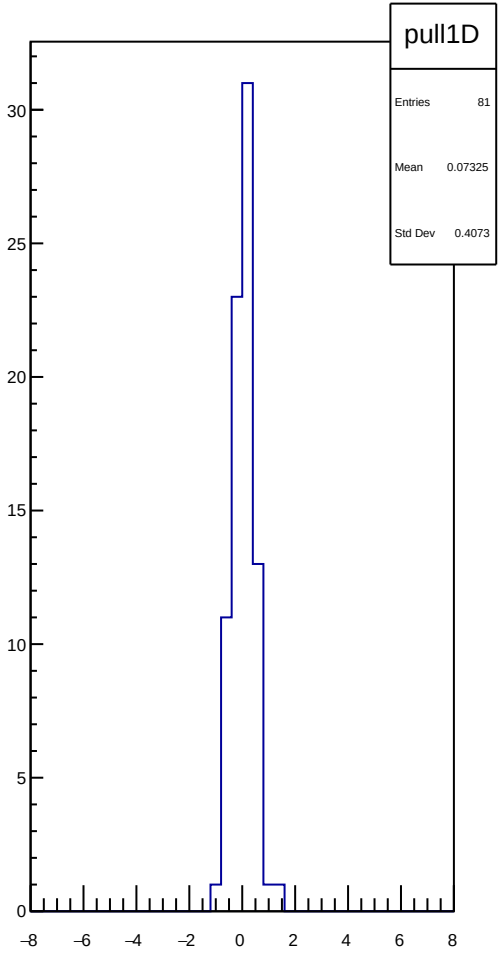

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 1.617e+04 / 80
p0 −48.67 ± 0.1406
pull
Entries 81
Mean −98.08
Std Dev 143.3

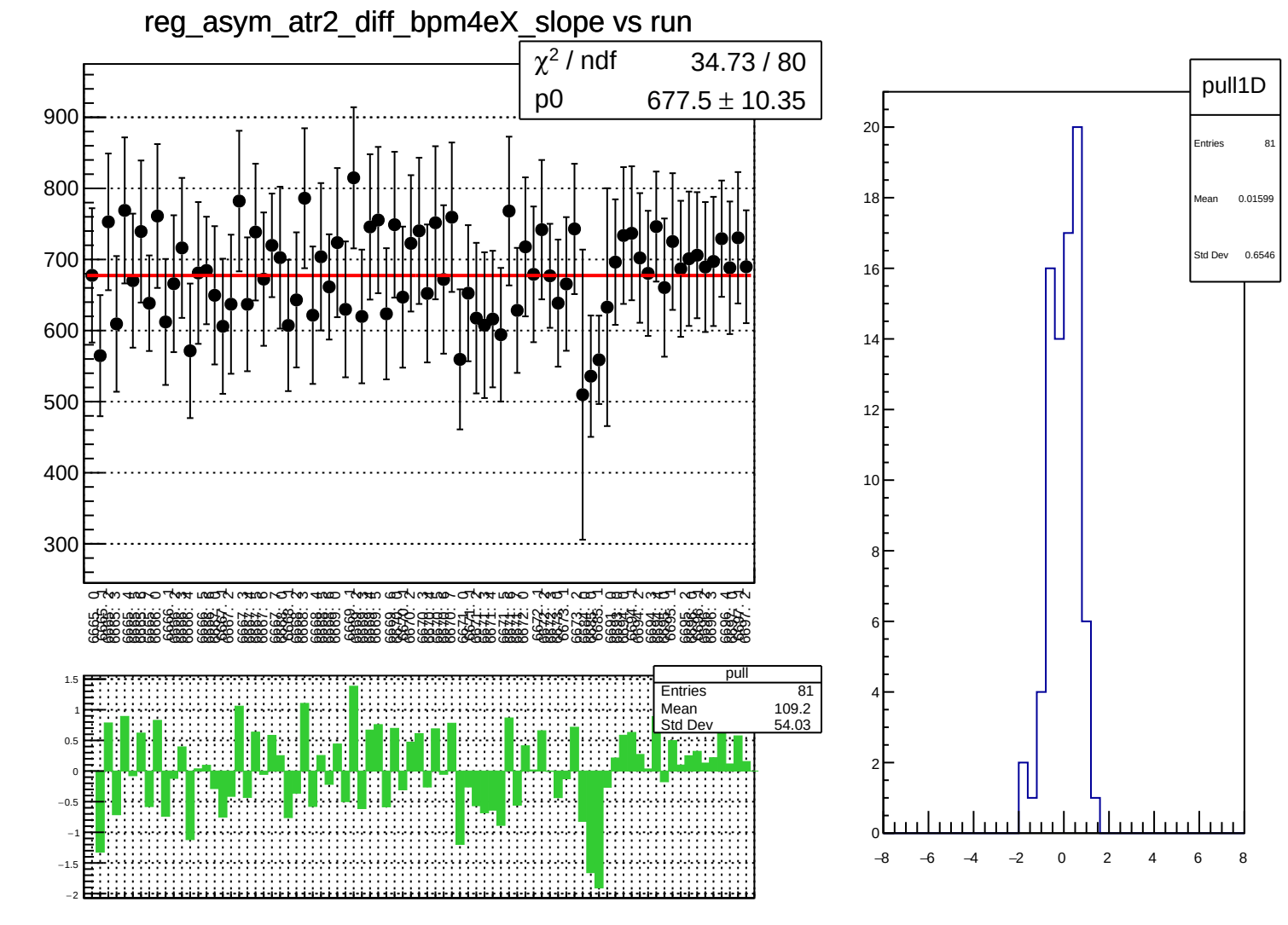

pull1D
Entries 81
Mean −7.503
Std Dev 0.4686

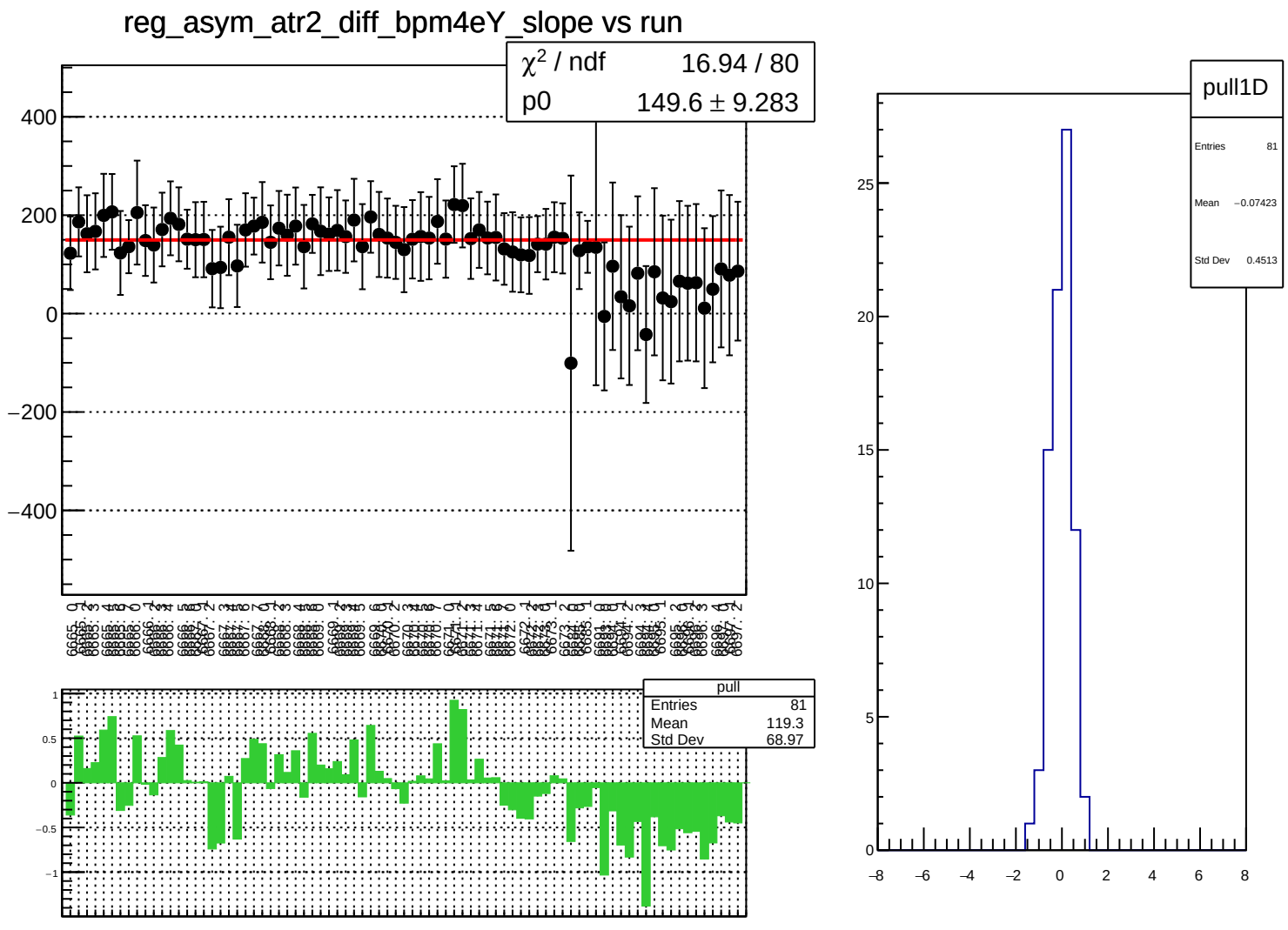

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 51.26 / 80
p0 −527.3 ± 9.805
pull
Entries 81
Mean 295.2
Std Dev 246.9

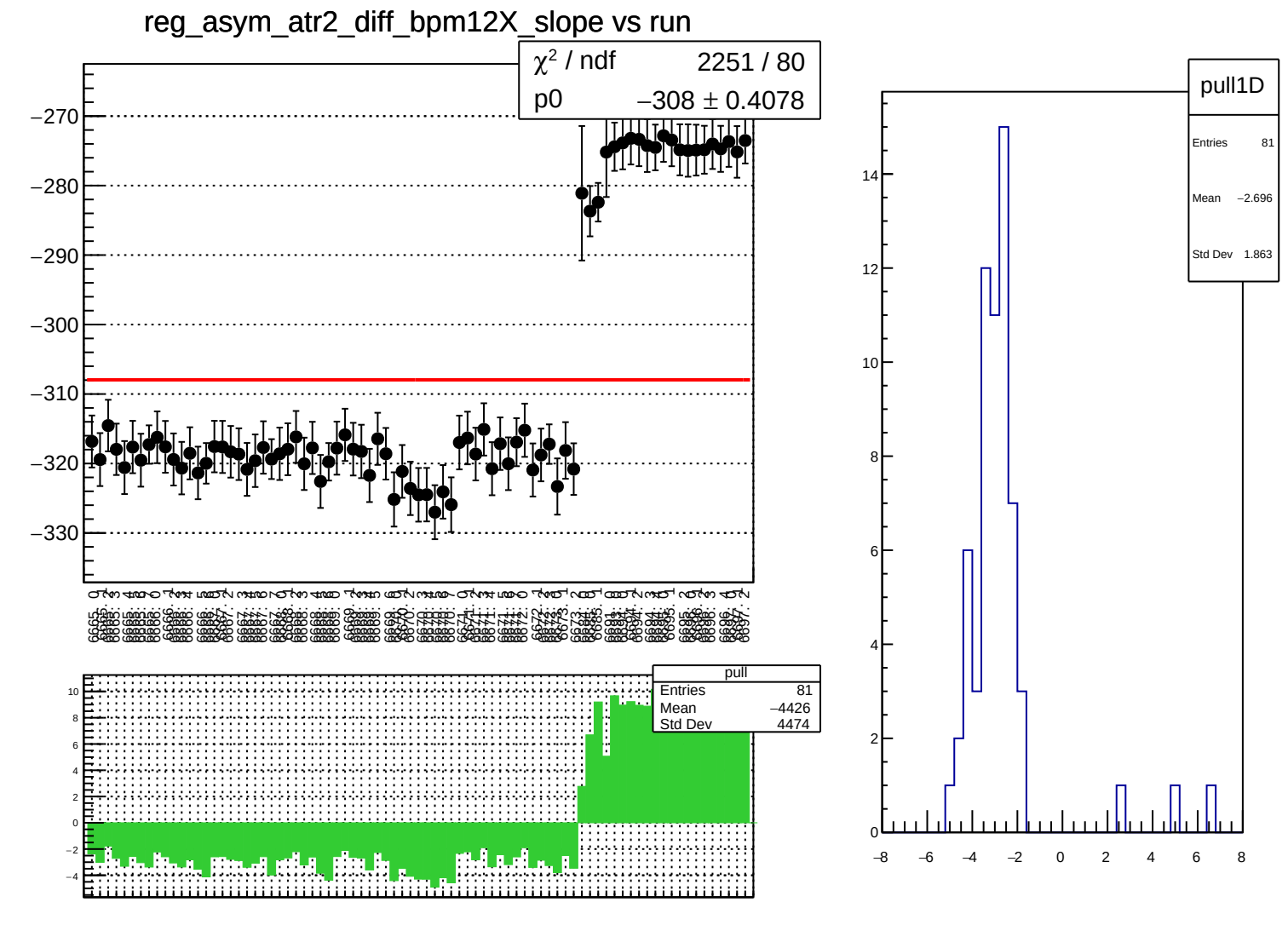

pull1D
Entries 81
Mean −0.0326
Std Dev 0.7949

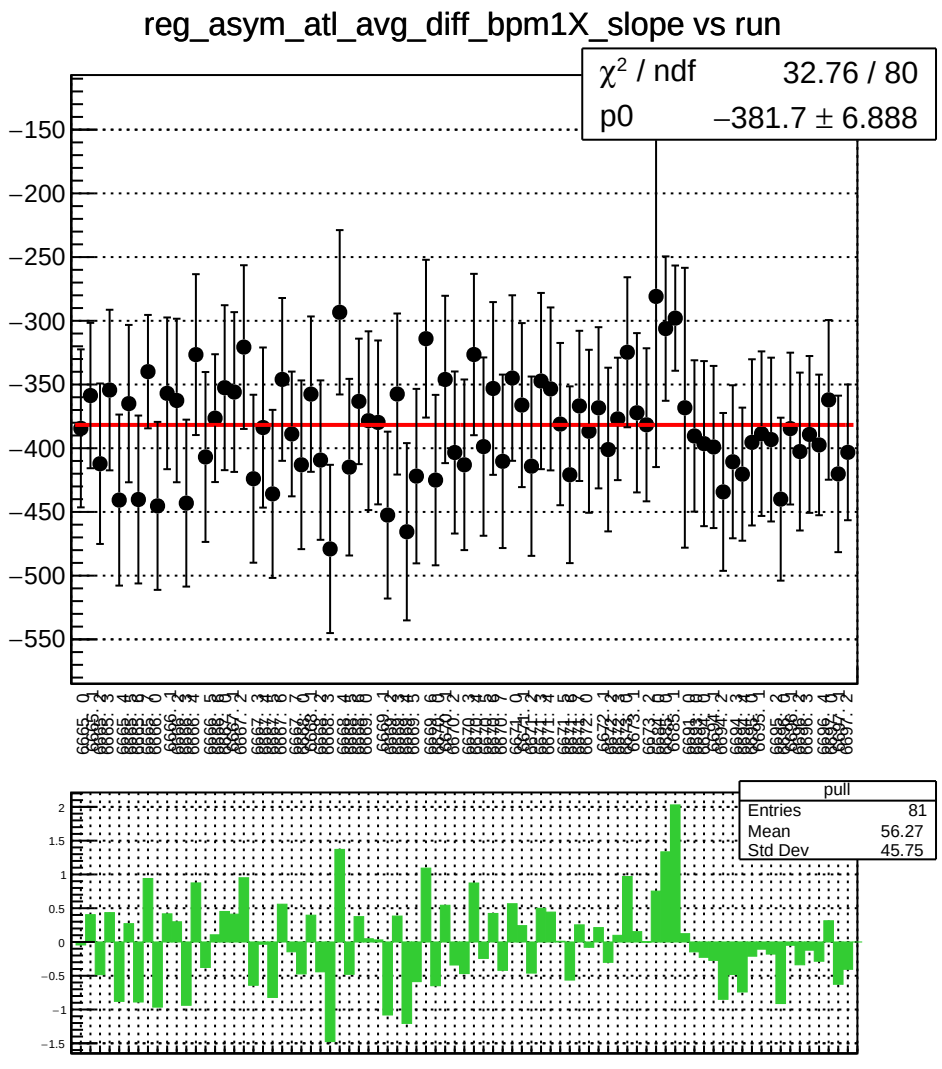

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 13.87 / 80
p0 6.597 ± 8.067
pull
Entries 81
Mean 104.9
Std Dev 54.77

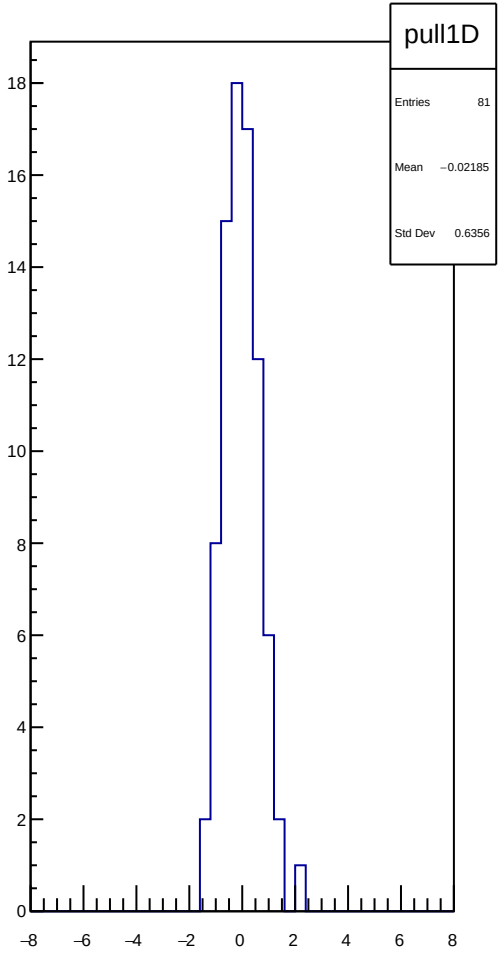

pull1D
Entries 81
Mean 0.07325
Std Dev 0.4073

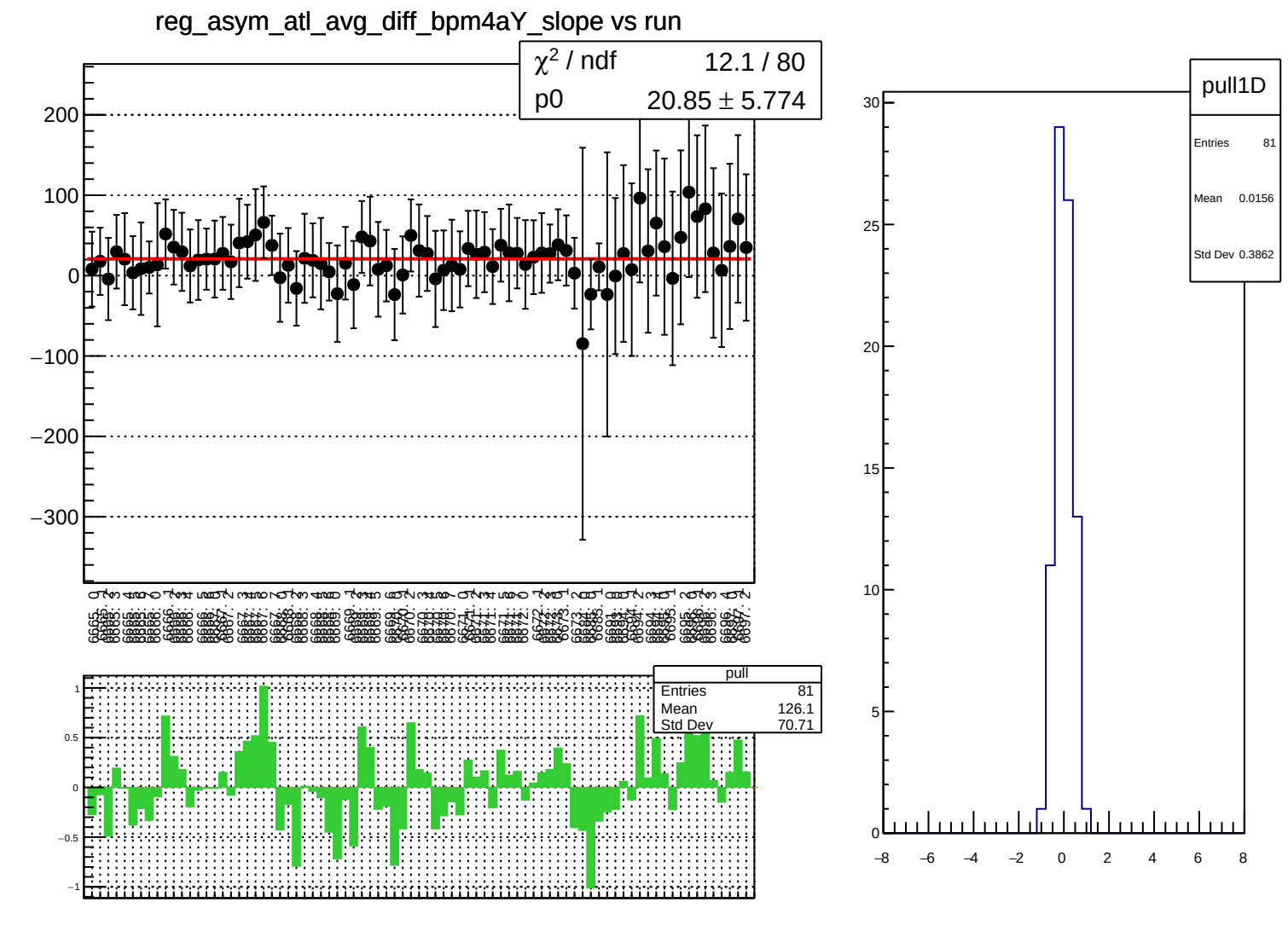

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 34.73 / 80
p0 677.5 ± 10.35
900
800
700
600
500
400
300
pull
Entries 81
Mean 109.2
Std Dev 54.03
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.01599
Std Dev 0.6546
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

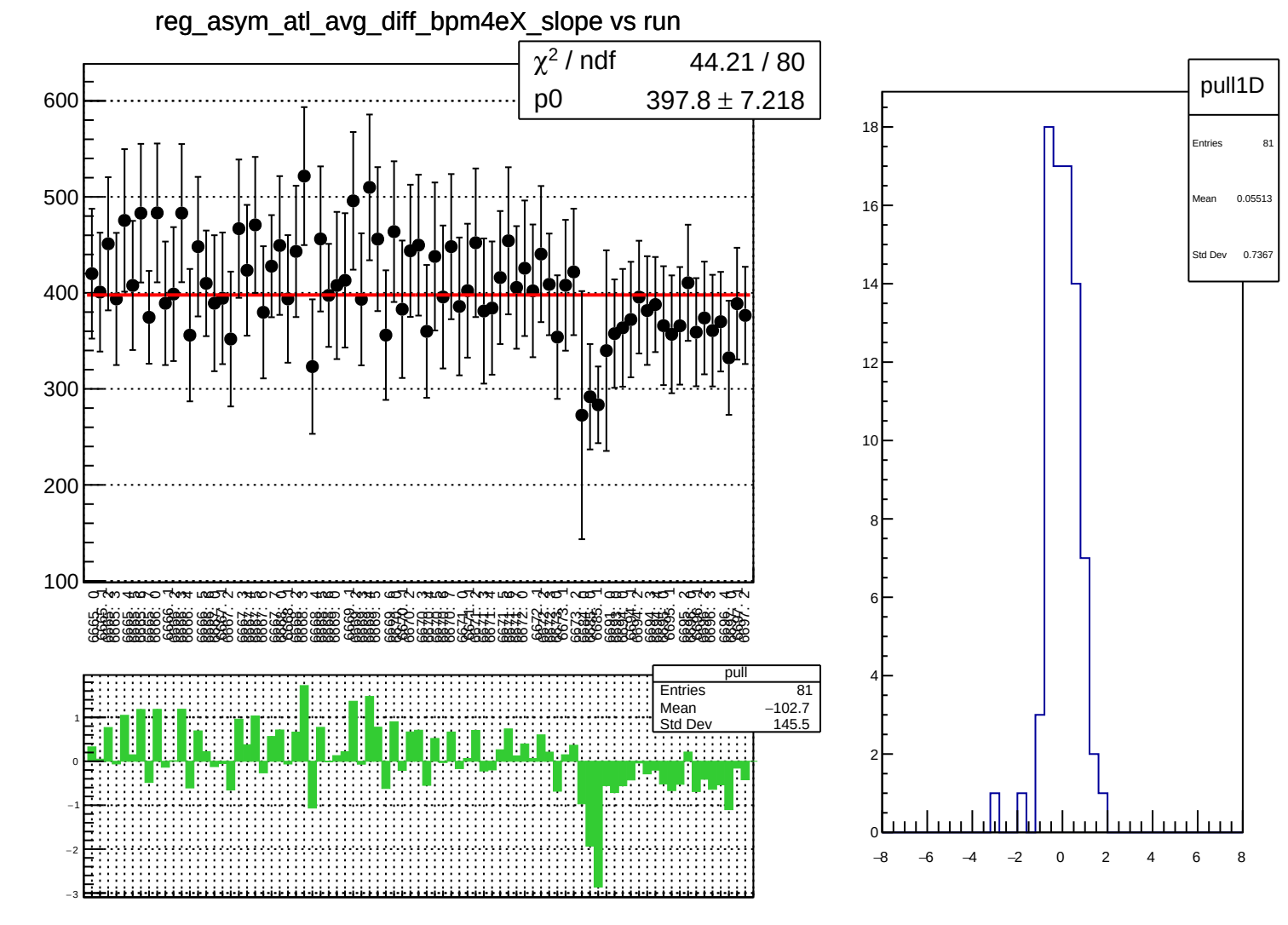

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 16.94 / 80
p0 149.6 ± 9.283
400
200
0
−200
−400
pull
Entries 81
Mean 119.3
Std Dev 68.97
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.07423
Std Dev 0.4513
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

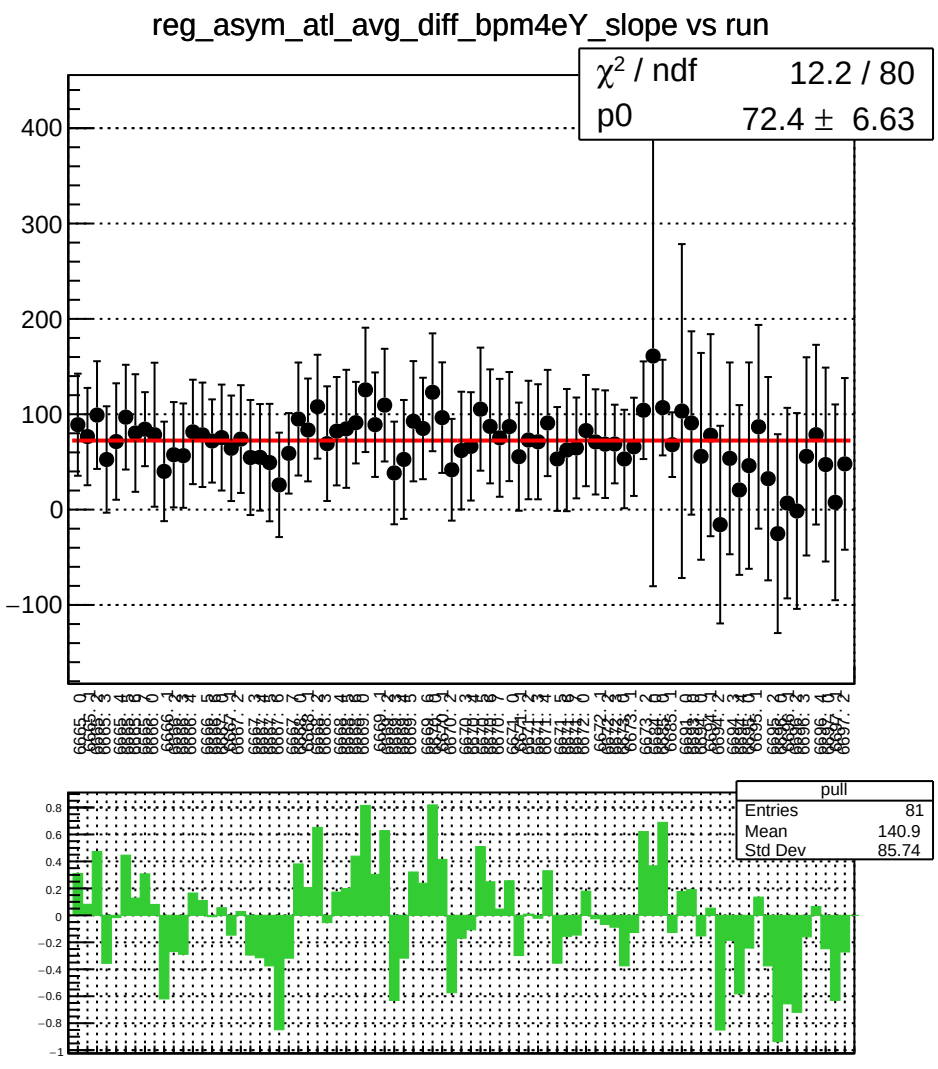

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 2251 / 80
p0 −308 ± 0.4078
pull
Entries 81
Mean −4426
Std Dev 4474
pull1D
Entries 81
Mean −2.696
Std Dev 1.863

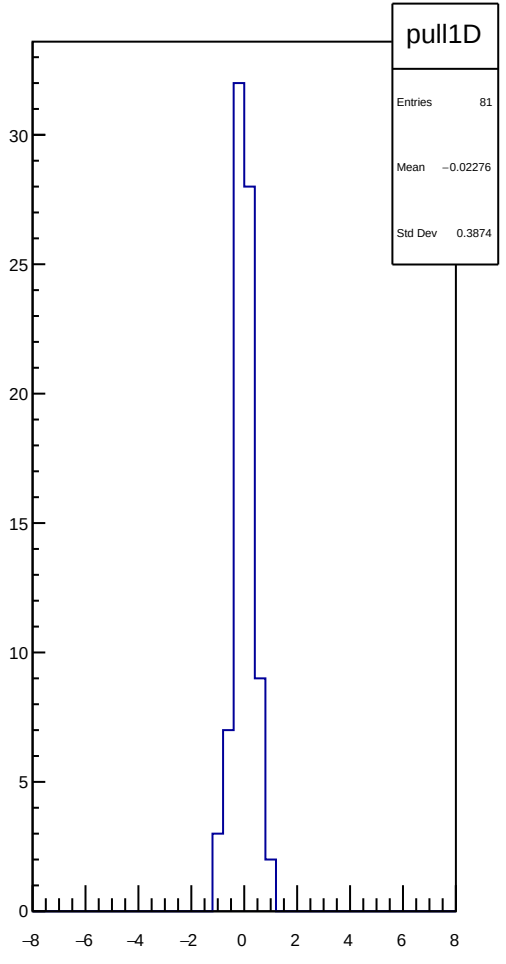

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 32.76 / 80
p0 −381.7 ± 6.888
pull
Entries 81
Mean 56.27
Std Dev 45.75

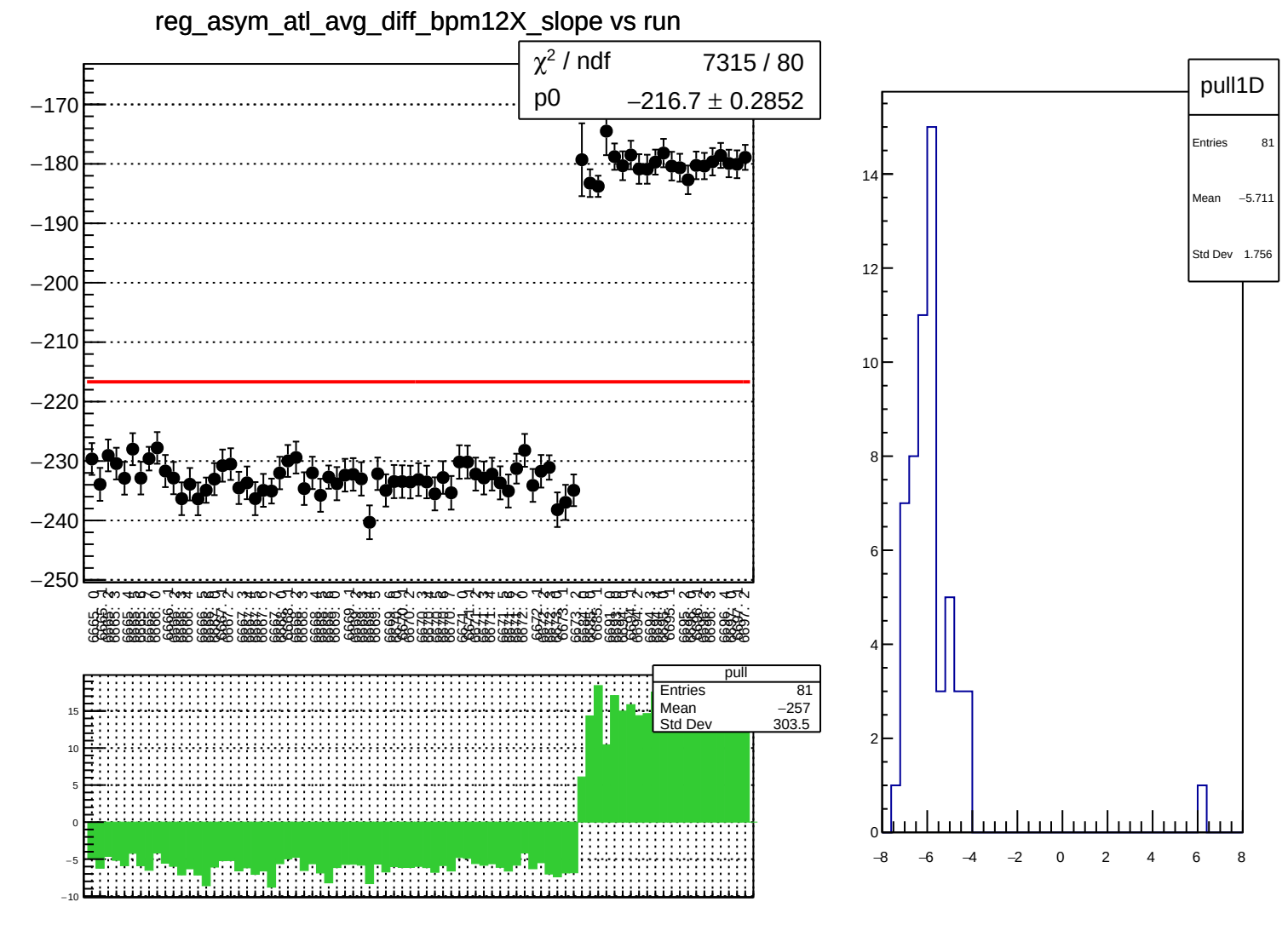

pull1D
Entries 81
Mean −0.02185
Std Dev 0.6356

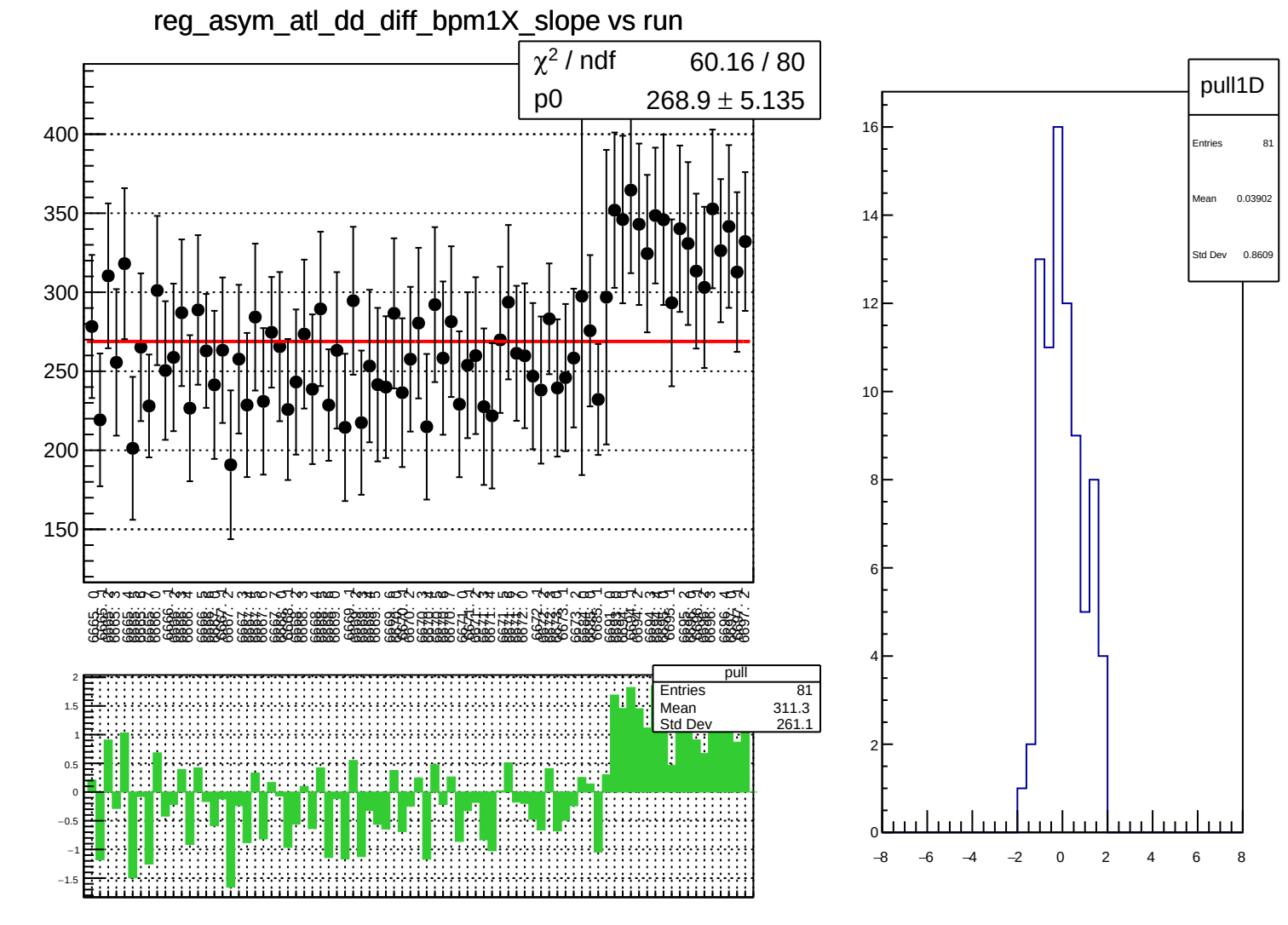

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.1 / 80
p0 20.85 ± 5.774
200
100
0
−100
−200
−300
pull
Entries 81
Mean 126.1
Std Dev 70.71
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.0156
Std Dev 0.3862
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

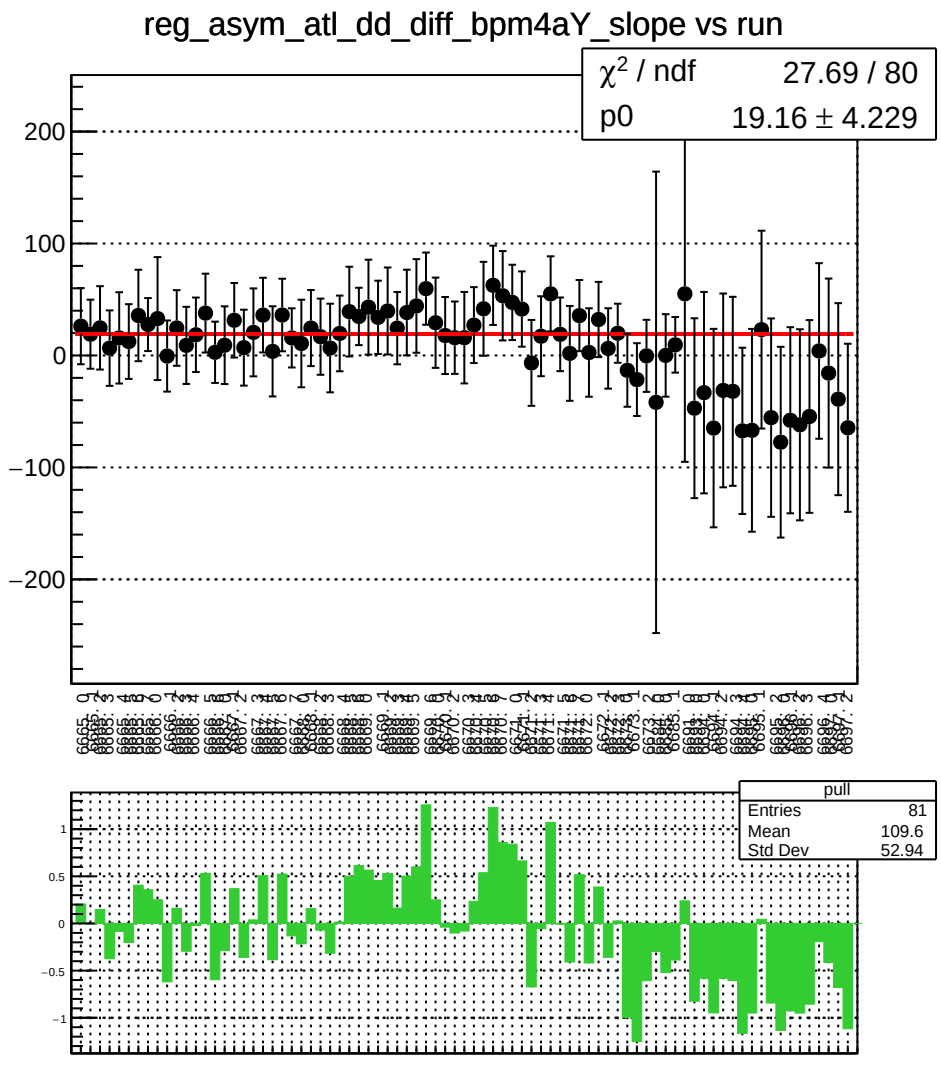

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.21 / 80
p0 397.8 ± 7.218
pull
Entries 81
Mean −102.7
Std Dev 145.5
pull1D
Entries 81
Mean 0.05513
Std Dev 0.7367

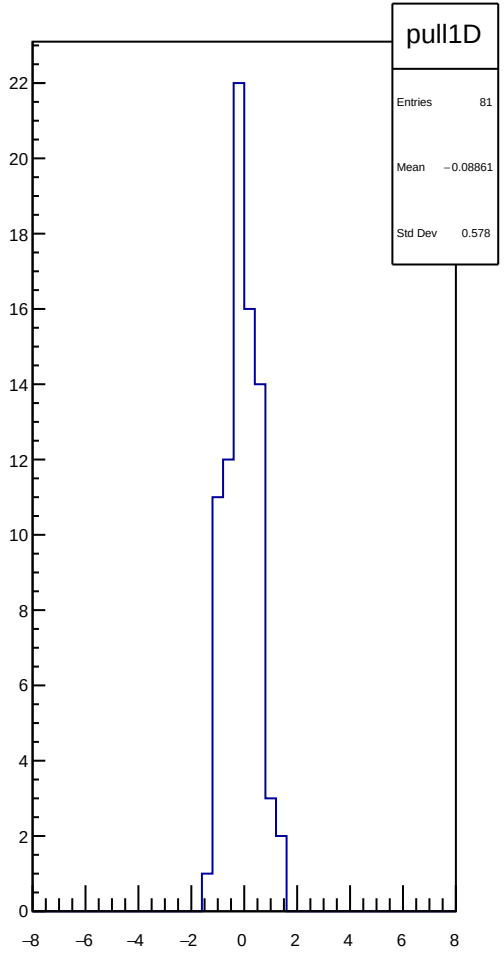

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.2 / 80
p0 72.4 ± 6.63
400
300
200
100
0
−100
pull
Entries 81
Mean 140.9
Std Dev 85.74
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

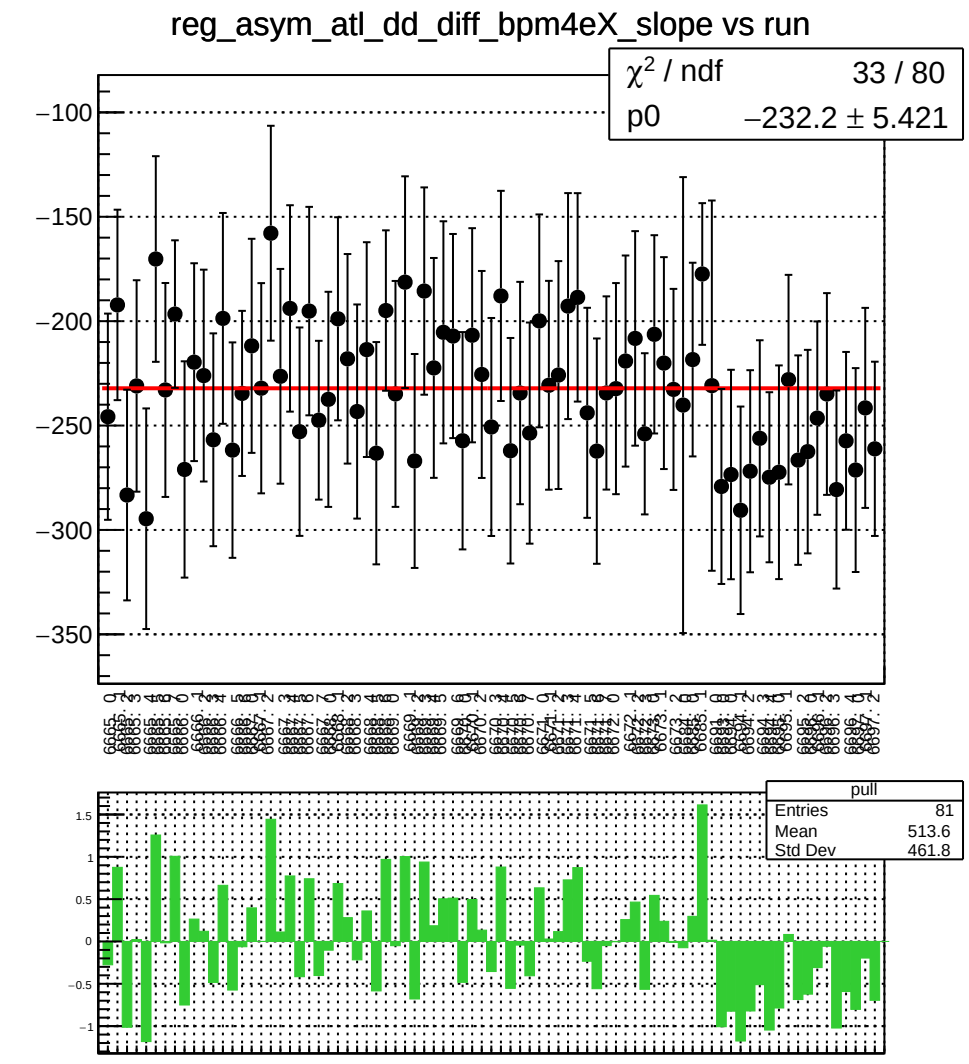

pull1D
Entries 81
Mean −0.02276
Std Dev 0.3874
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

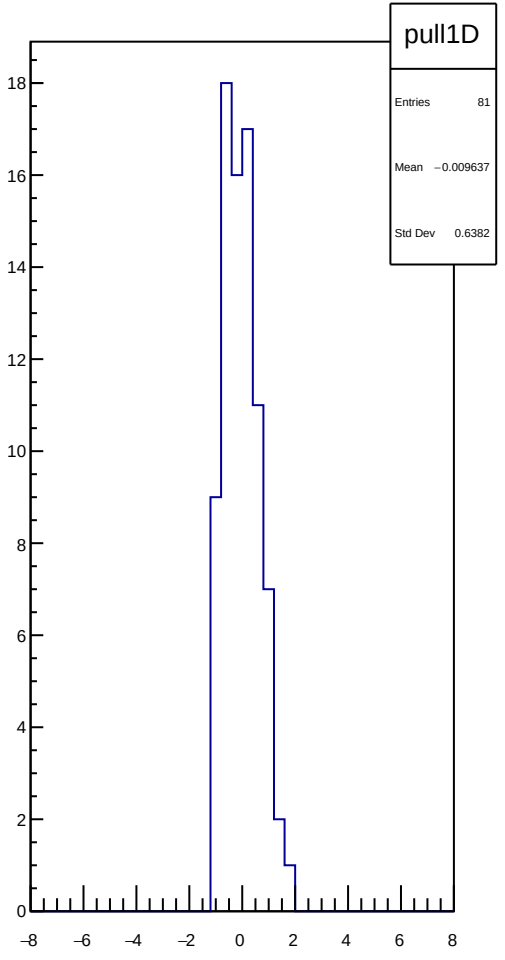

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 7315 / 80
p0 −216.7 ± 0.2852
pull
Entries 81
Mean −257
Std Dev 303.5
pull1D
Entries 81
Mean −5.711
Std Dev 1.756

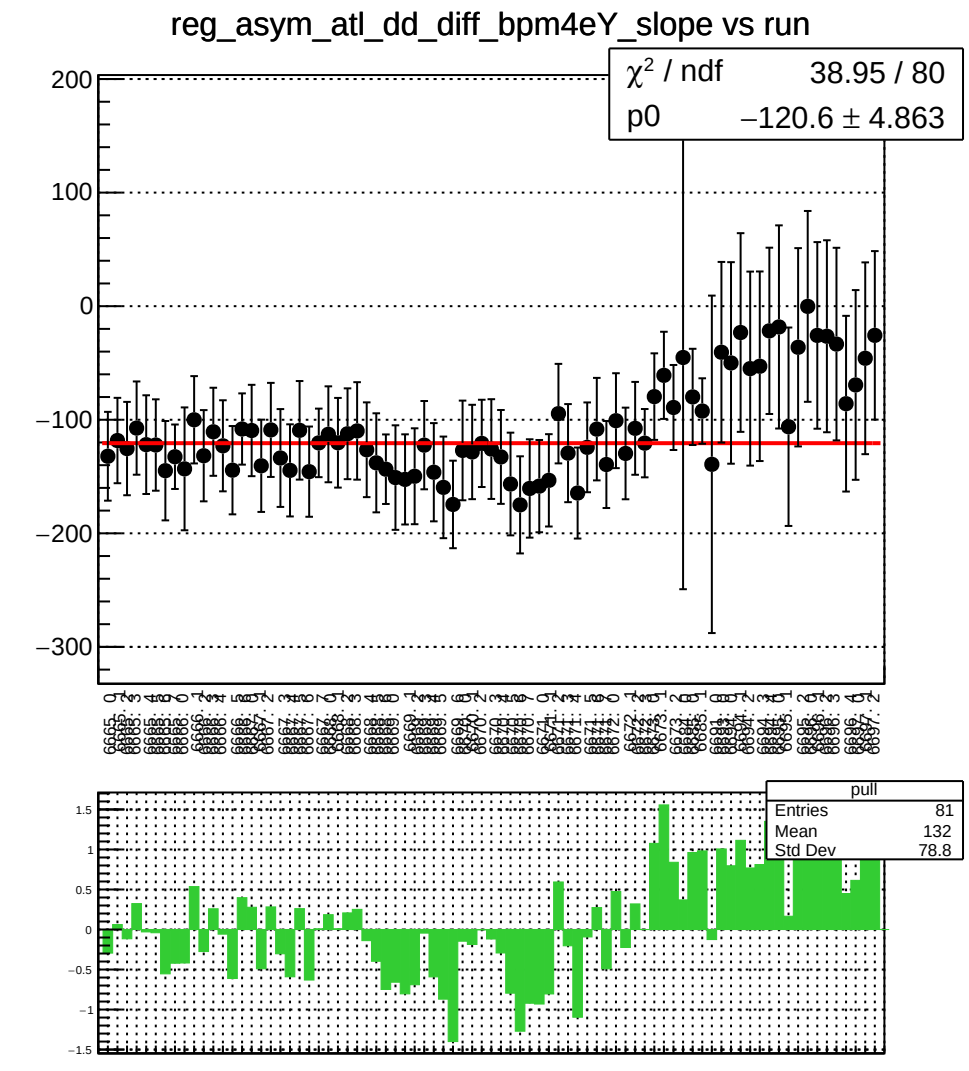

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 60.16 / 80
p0 268.9 ± 5.135
pull
Entries 81
Mean 311.3
Std Dev 261.1
pull1D
Entries 81
Mean 0.03902
Std Dev 0.8609

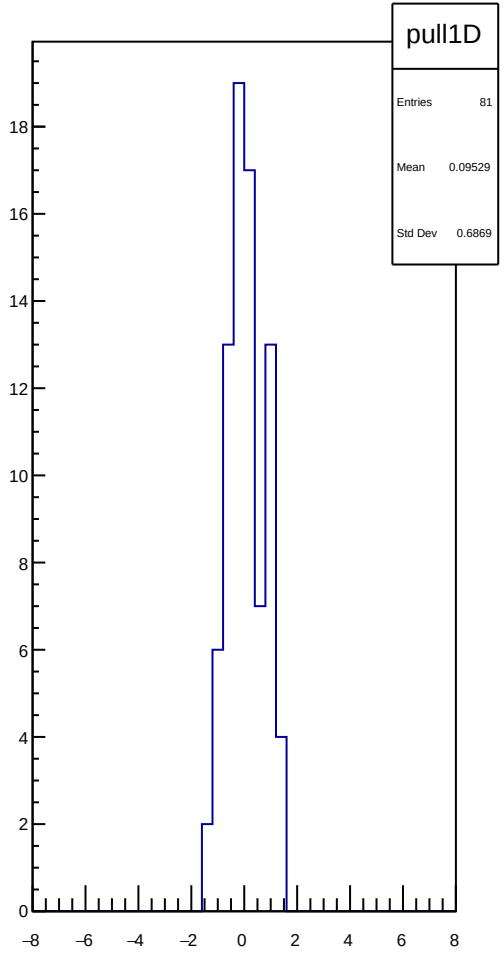

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.69 / 80
p0 19.16 ± 4.229
200
100
0
−100
−200
pull
Entries 81
Mean 109.6
Std Dev 52.94
1
0.5
0
−0.5
−1

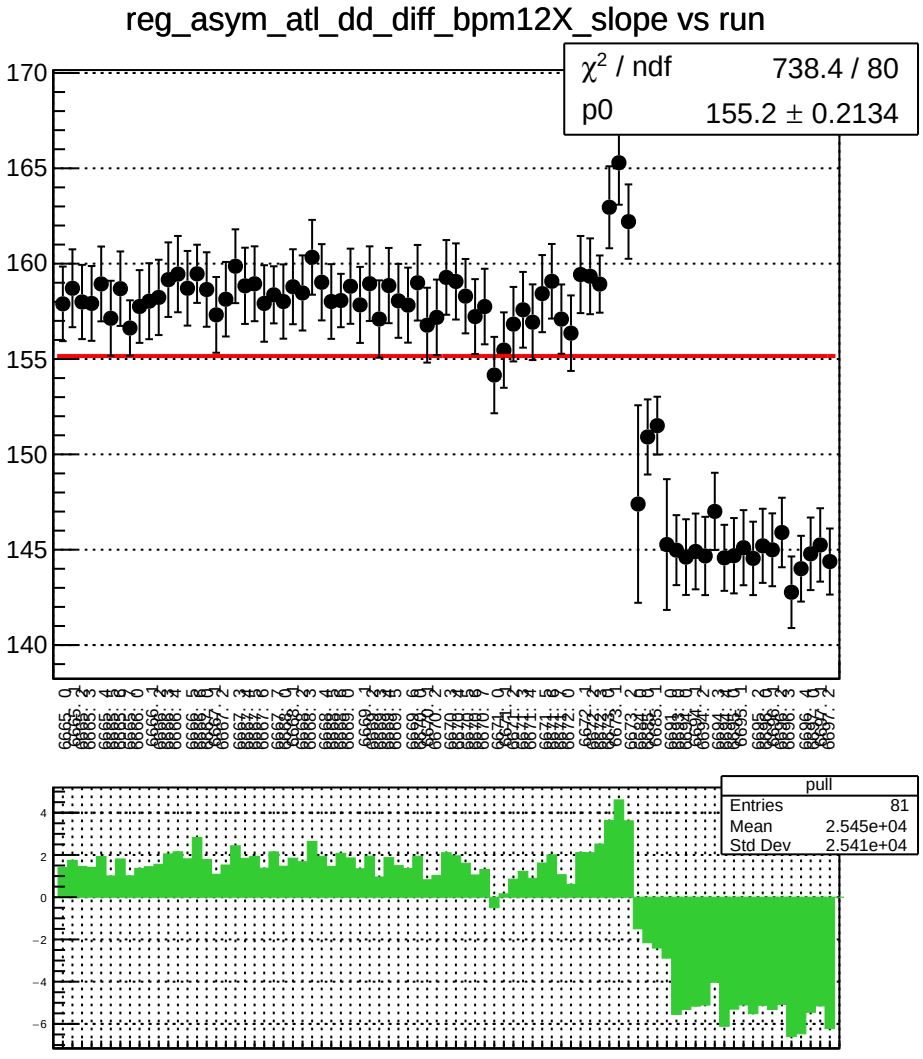

pull1D
Entries 81
Mean −0.08861
Std Dev 0.578
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

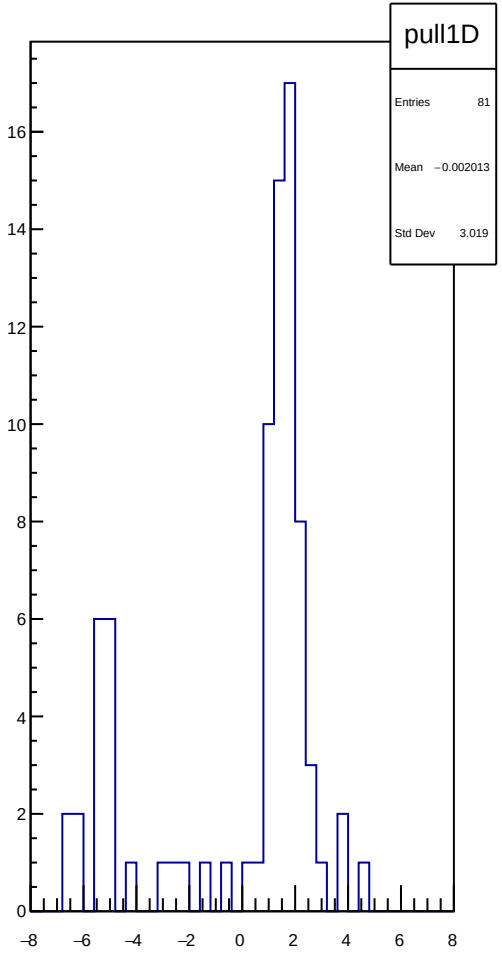

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 33 / 80
p0 −232.2 ± 5.421
pull
Entries 81
Mean 513.6
Std Dev 461.8

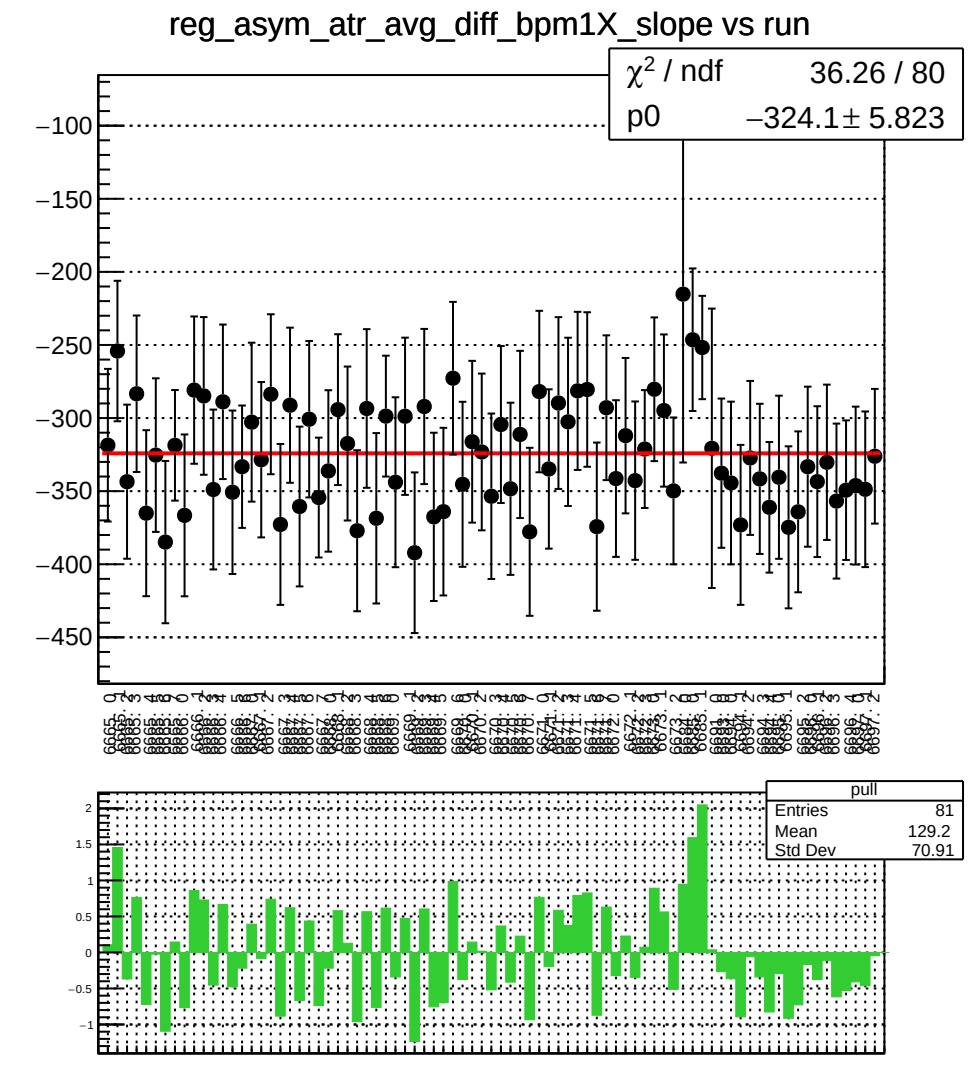

pull1D
Entries 81
Mean −0.009637
Std Dev 0.6382

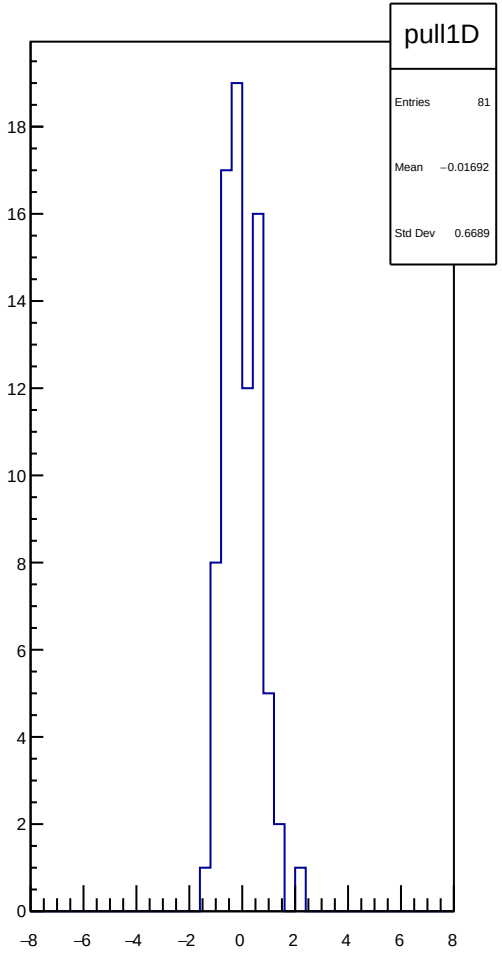

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.95 / 80
p0 −120.6 ± 4.863
200
100
0
−100
−200
−300
pull
Entries 81
Mean 132
Std Dev 78.8
1.5
1
0.5
0
−0.5
−1
−1.5

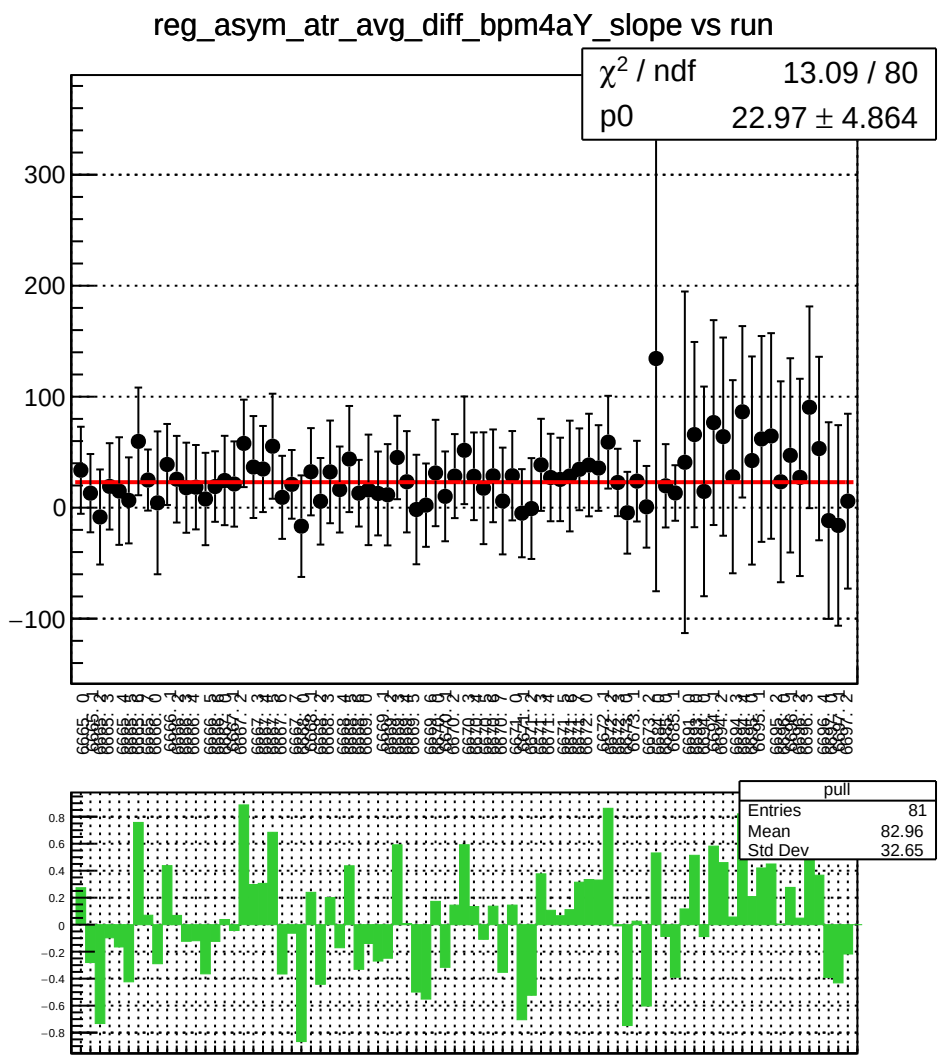

pull1D
Entries 81
Mean 0.09529
Std Dev 0.6869
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

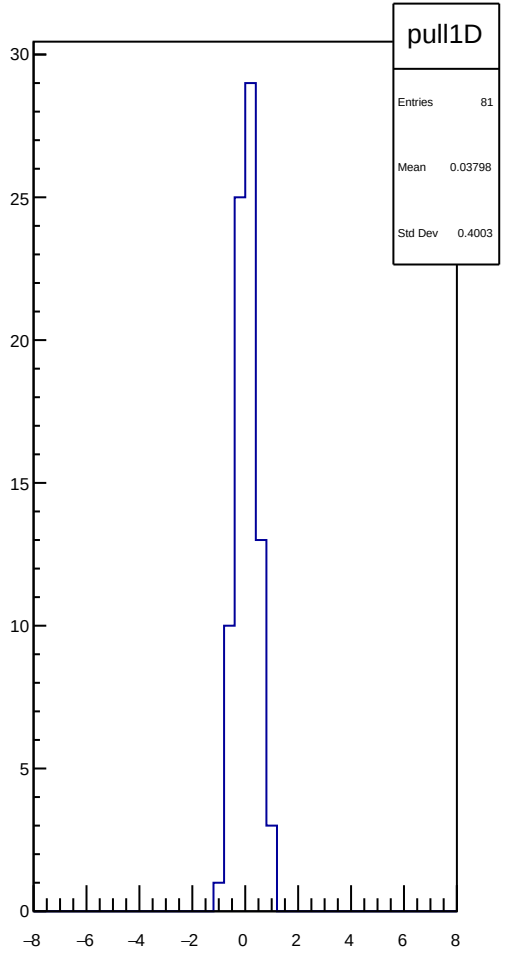

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 738.4 / 80
p0 155.2 ± 0.2134
pull
Entries 81
Mean 2.545e+04
Std Dev 2.541e+04

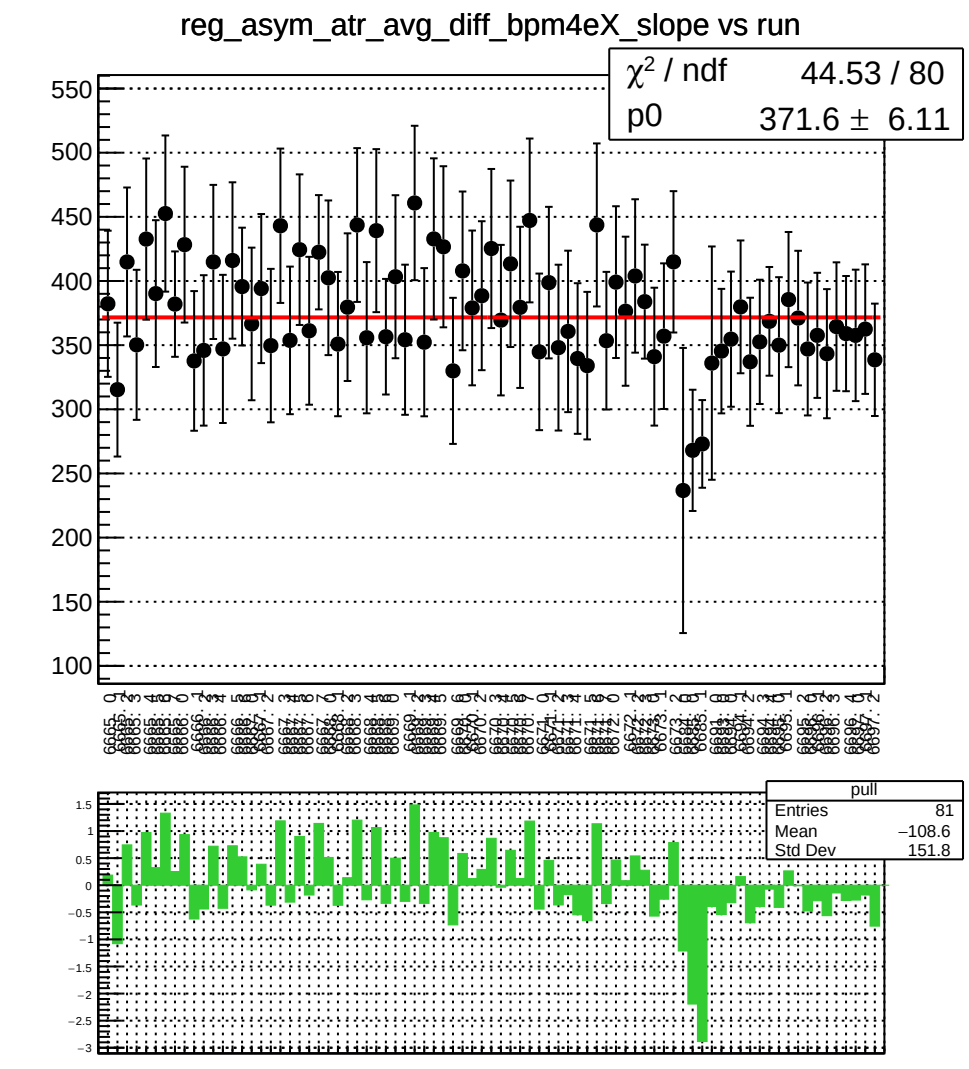

pull1D
Entries 81
Mean −0.002013
Std Dev 3.019

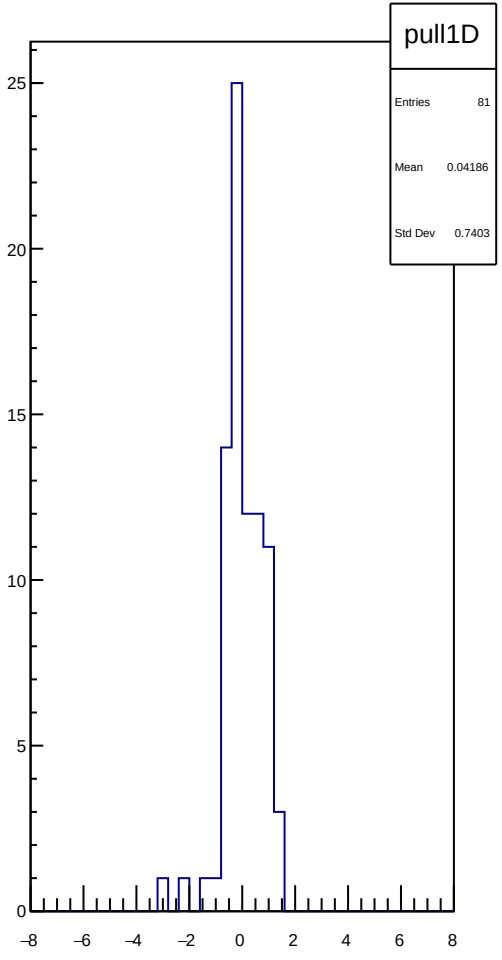

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 36.26 / 80
p0 −324.1 ± 5.823
pull
Entries 81
Mean 129.2
Std Dev 70.91

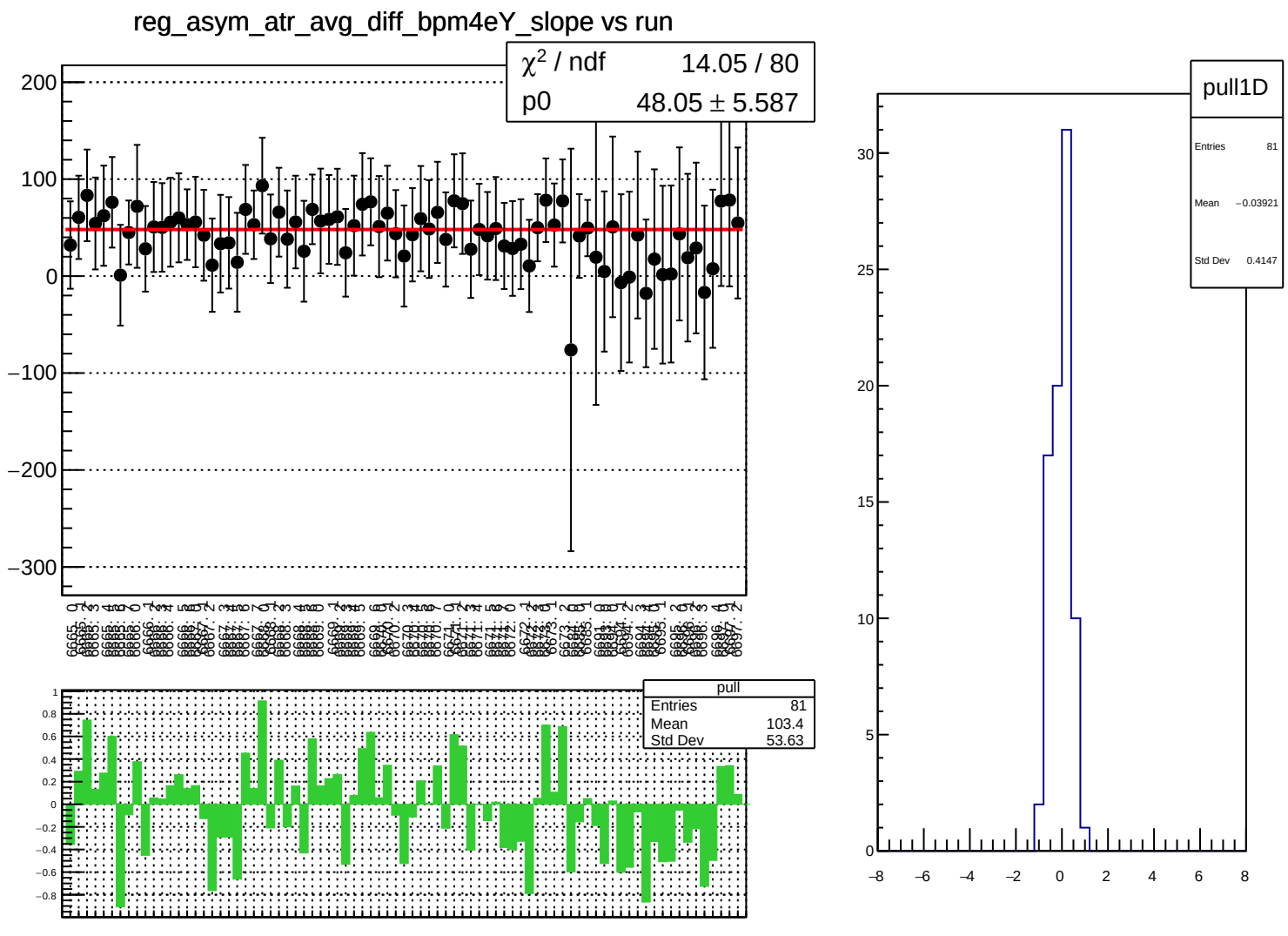

pull1D
Entries 81
Mean −0.01692
Std Dev 0.6689

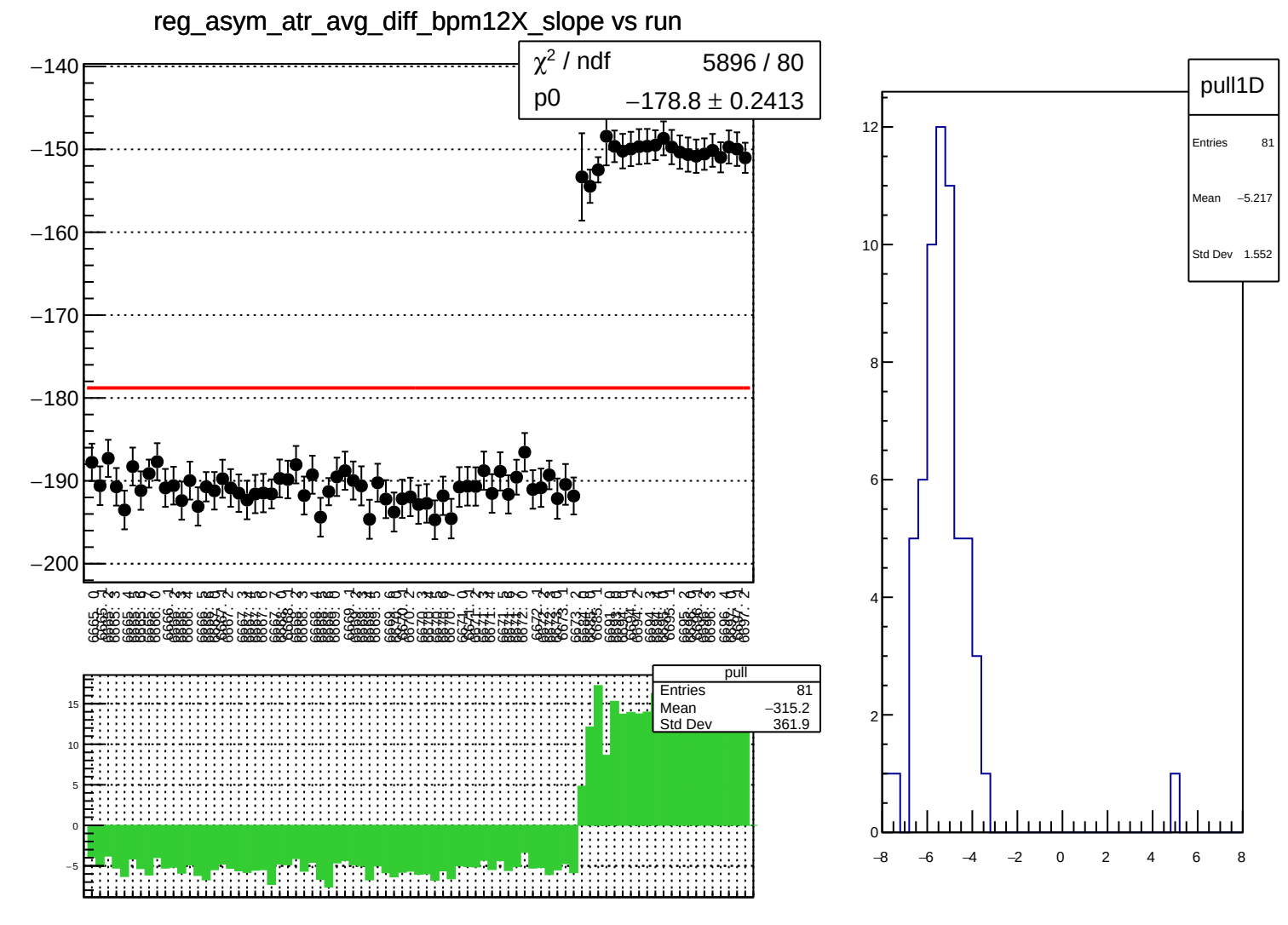

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 13.09 / 80
p0 22.97 ± 4.864
300
200
100
0
−100
pull
Entries 81
Mean 82.96
Std Dev 32.65
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

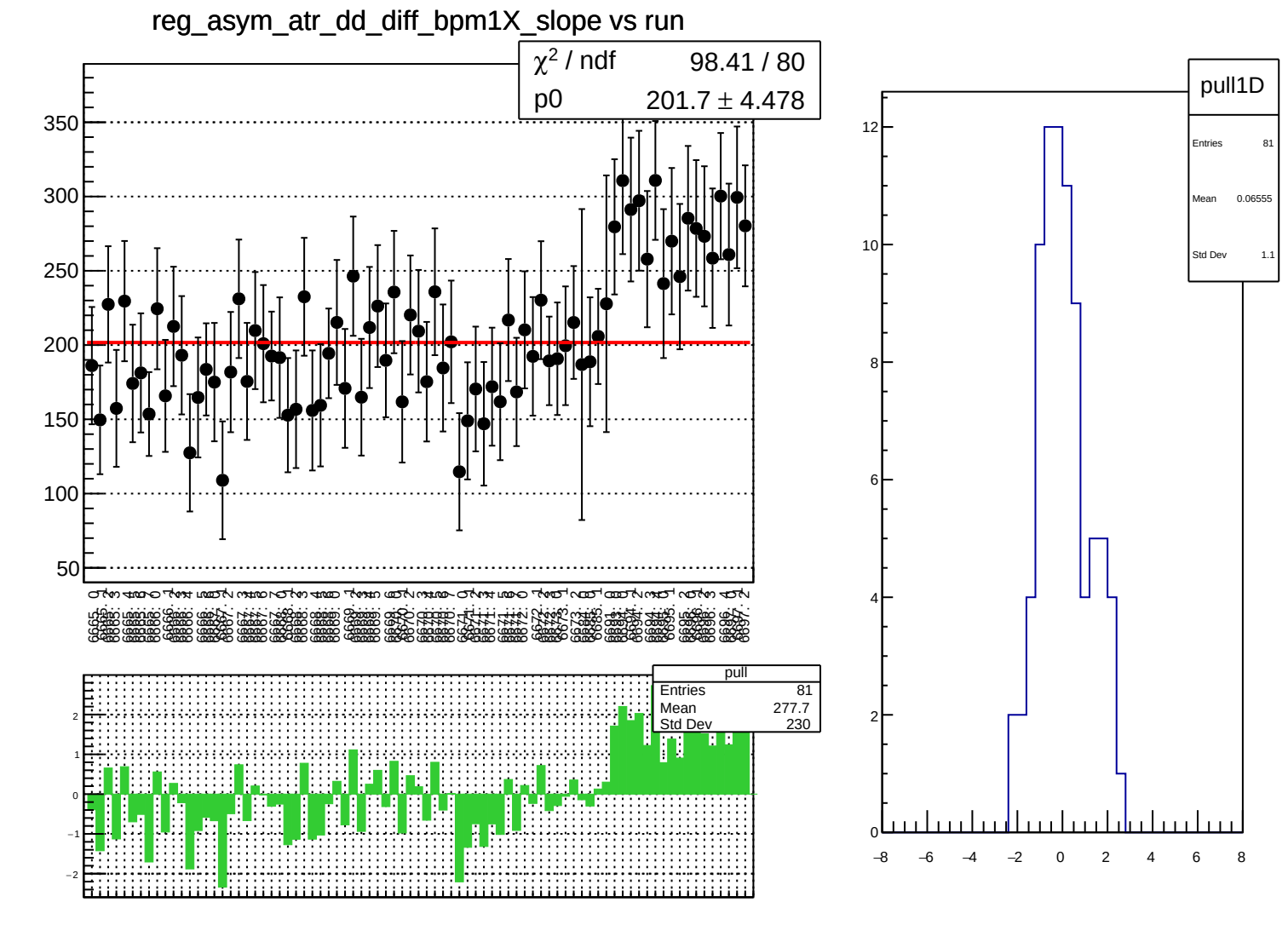

pull1D
Entries 81
Mean 0.03798
Std Dev 0.4003
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

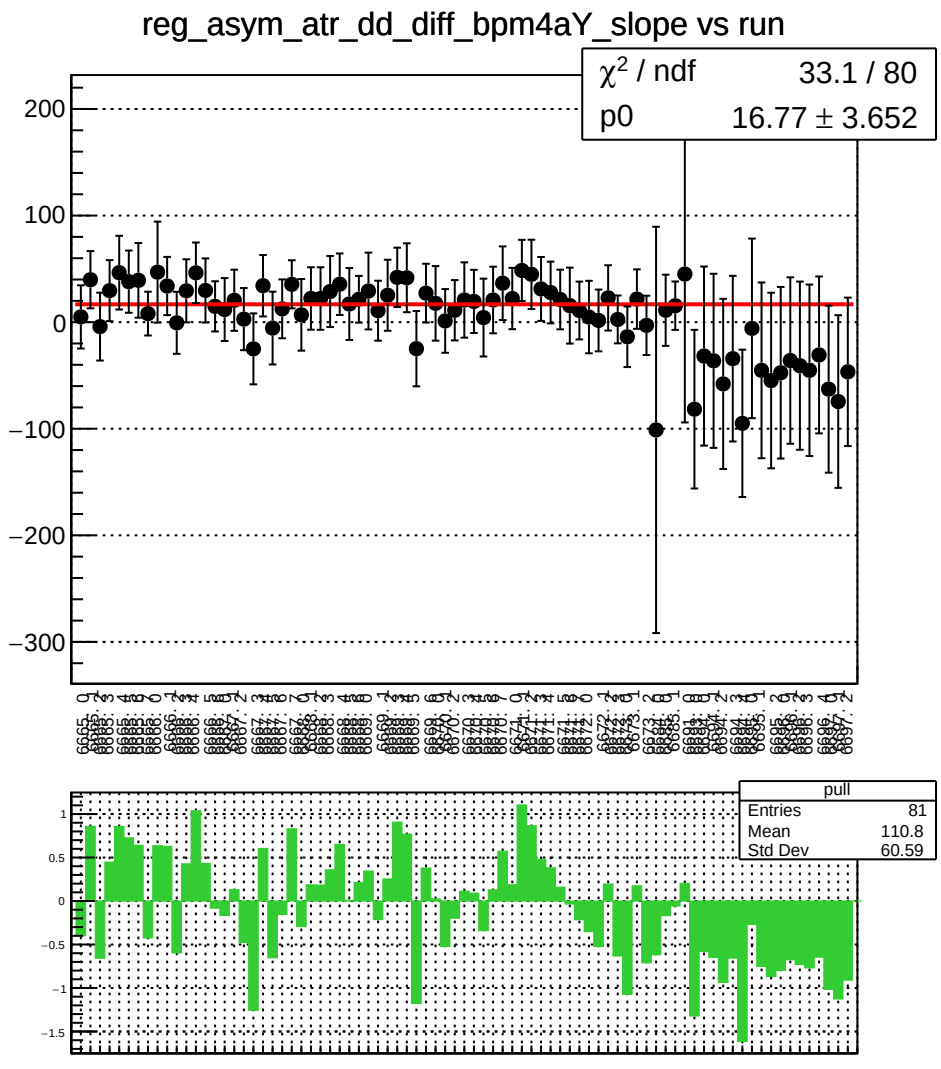

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.53 / 80
p0 371.6 ± 6.11
pull
Entries 81
Mean −108.6
Std Dev 151.8

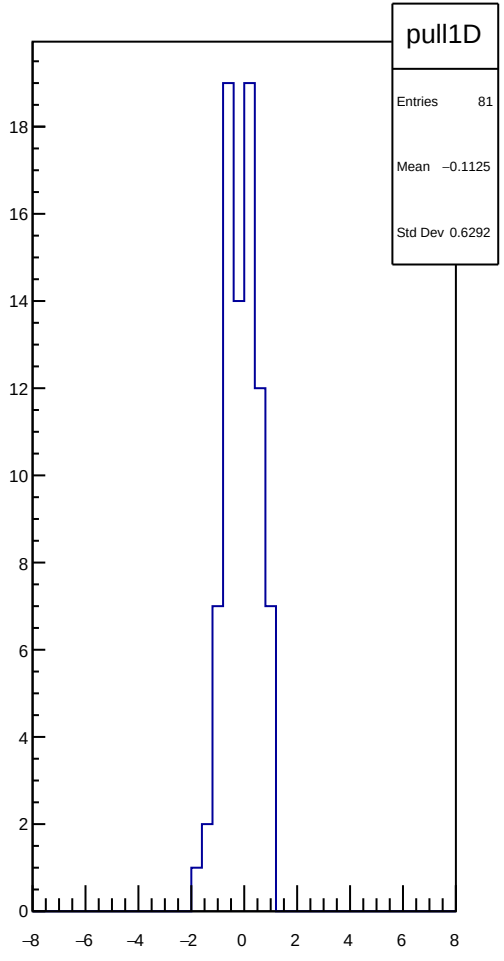

pull1D
Entries 81
Mean 0.04186
Std Dev 0.7403


reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.05 / 80
p0 48.05 ± 5.587
pull
Entries 81
Mean 103.4
Std Dev 53.63
pull1D
Entries 81
Mean −0.03921
Std Dev 0.4147


reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 5896 / 80
p0 −178.8 ± 0.2413
−140
−150
−160
−170
−180
−190
−200
pull
Entries 81
Mean −315.2
Std Dev 361.9
15
10
5
0
−5
pull1D
Entries 81
Mean −5.217
Std Dev 1.552
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 98.41 / 80
p0 201.7 ± 4.478
pull
Entries 81
Mean 277.7
Std Dev 230
pull1D
Entries 81
Mean 0.06555
Std Dev 1.1


reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 33.1 / 80
p0 16.77 ± 3.652
200
100
0
−100
−200
−300
pull
Entries 81
Mean 110.8
Std Dev 60.59
1
0.5
0
−0.5
−1
−1.5


pull1D
Entries 81
Mean −0.1125
Std Dev 0.6292
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
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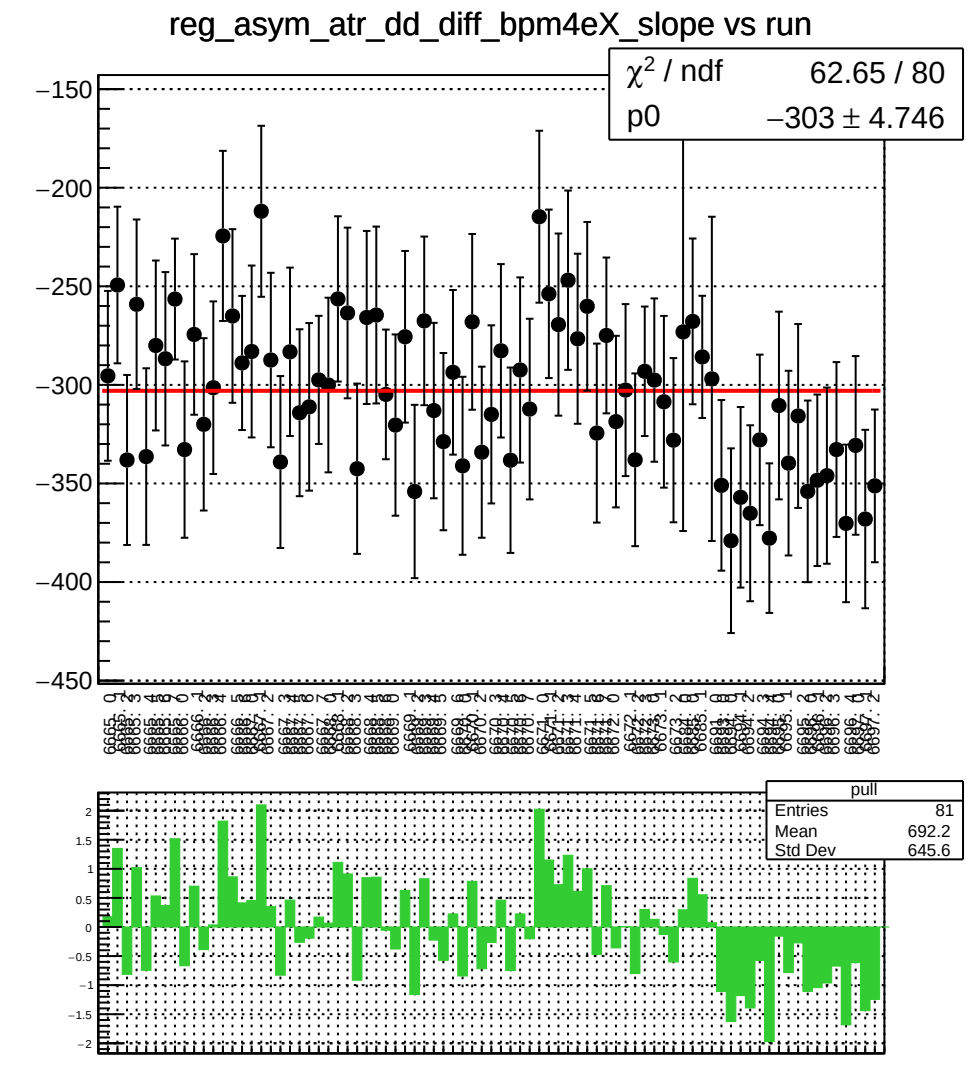
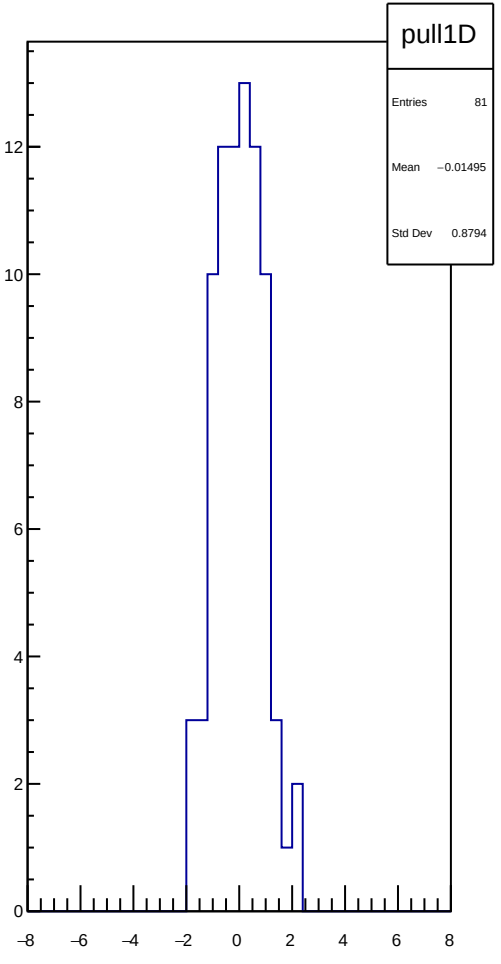
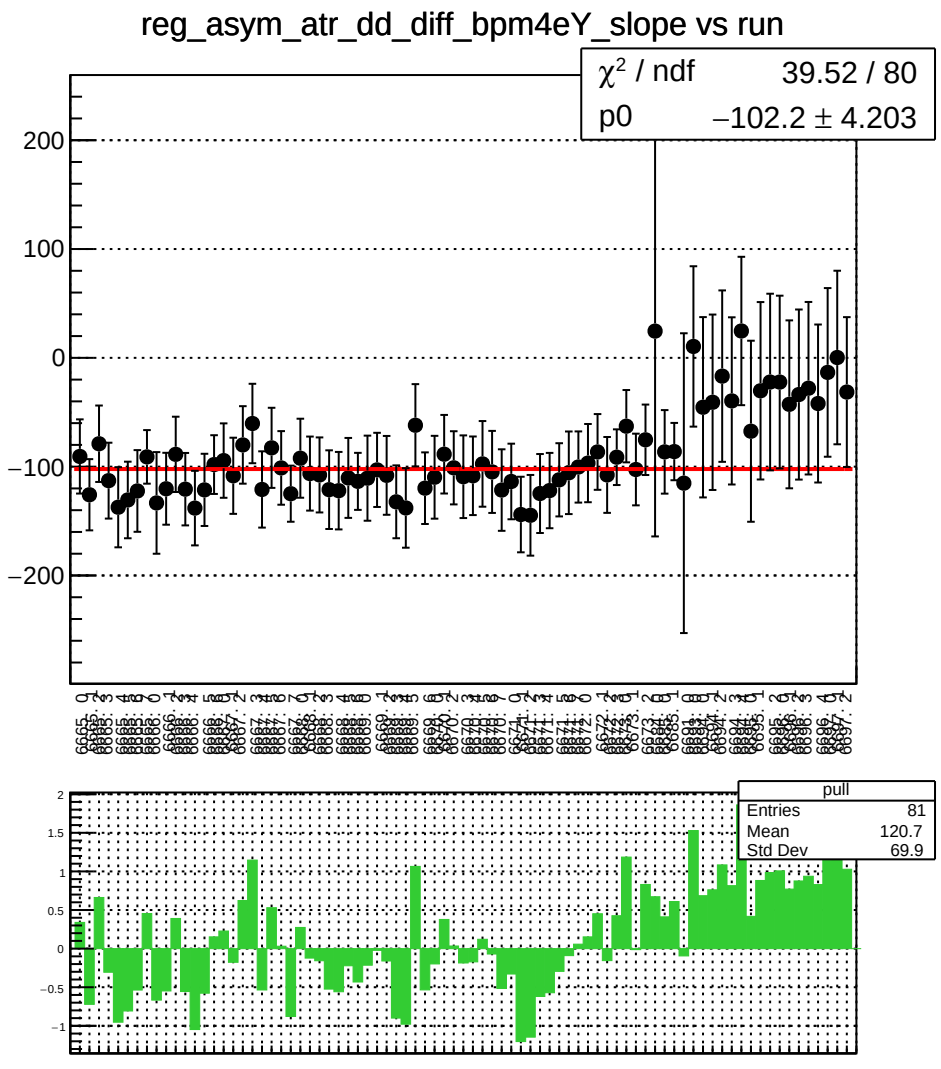
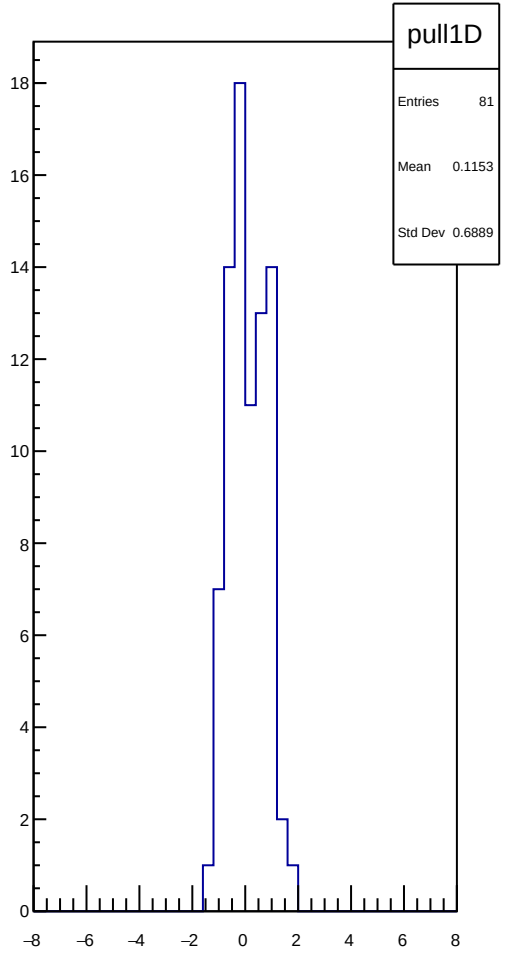
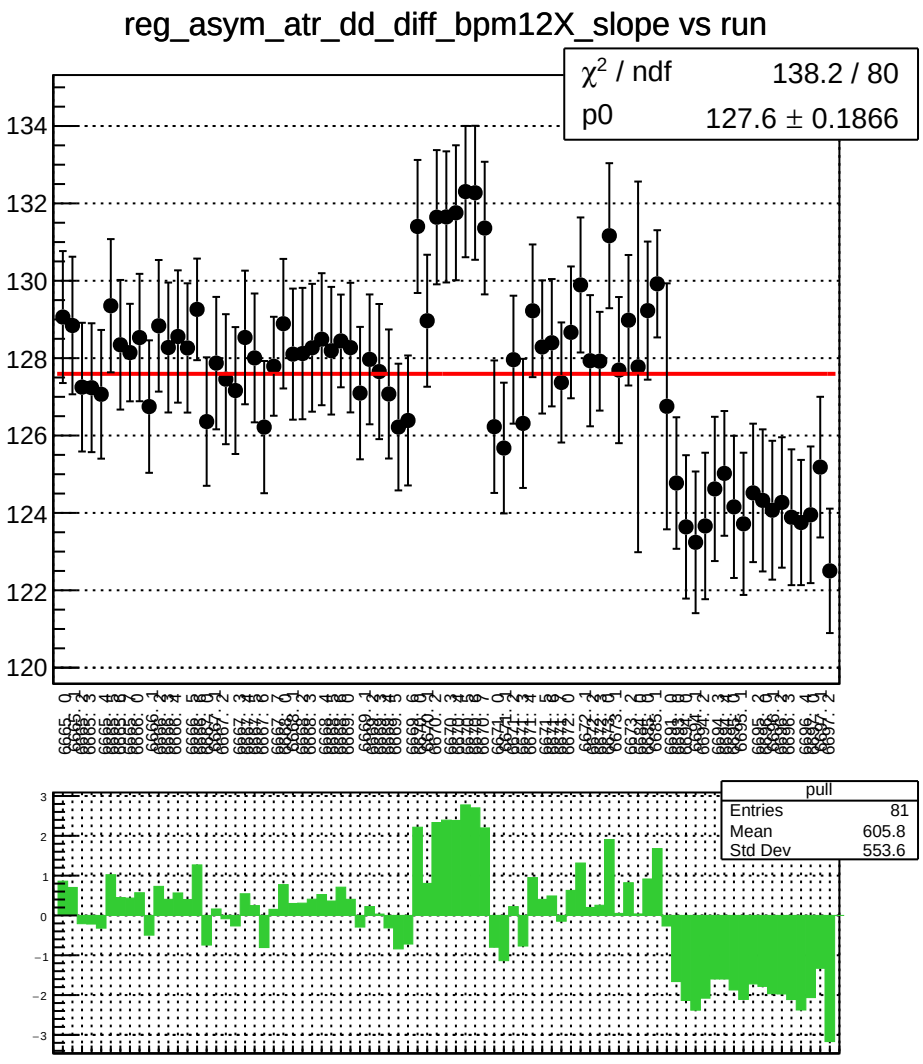
0
2
4
6
8

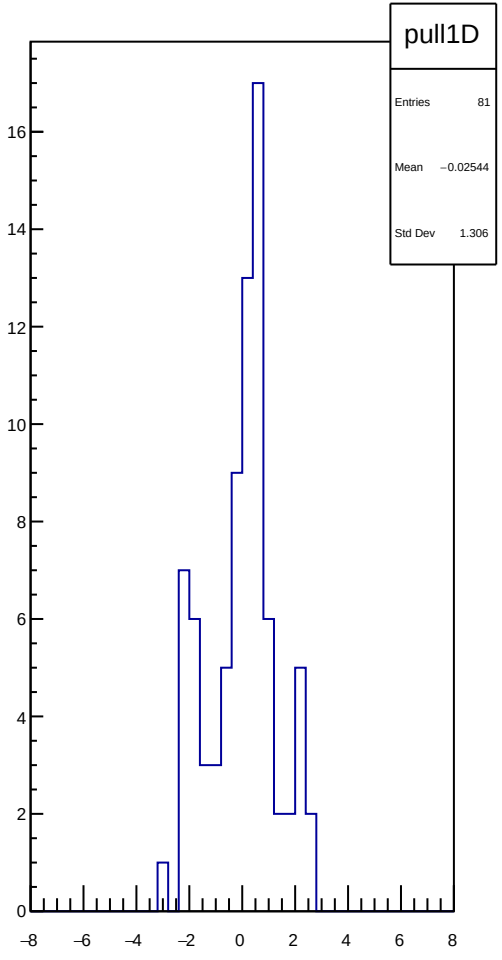

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 62.65 / 80
p0 −303 ± 4.746
pull
Entries 81
Mean 692.2
Std Dev 645.6

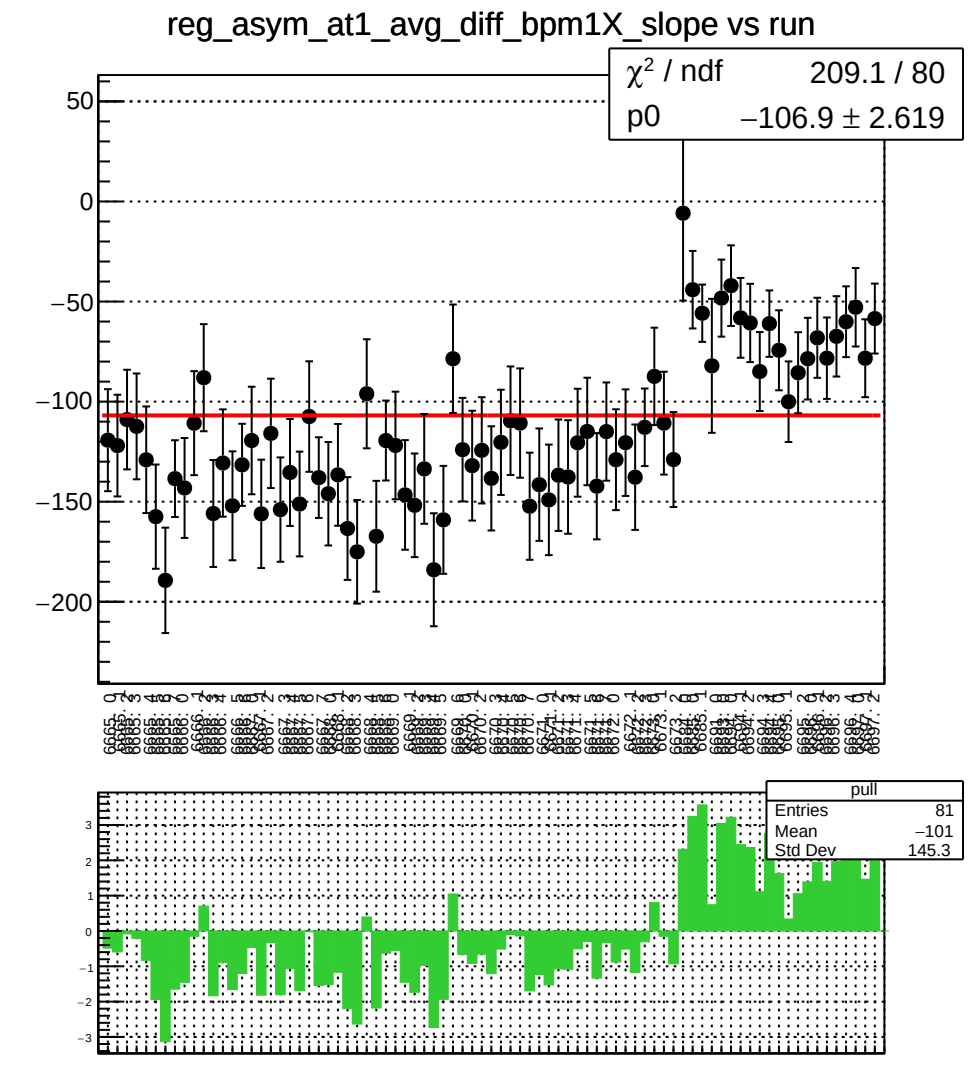

pull1D
Entries 81
Mean −0.01495
Std Dev 0.8794

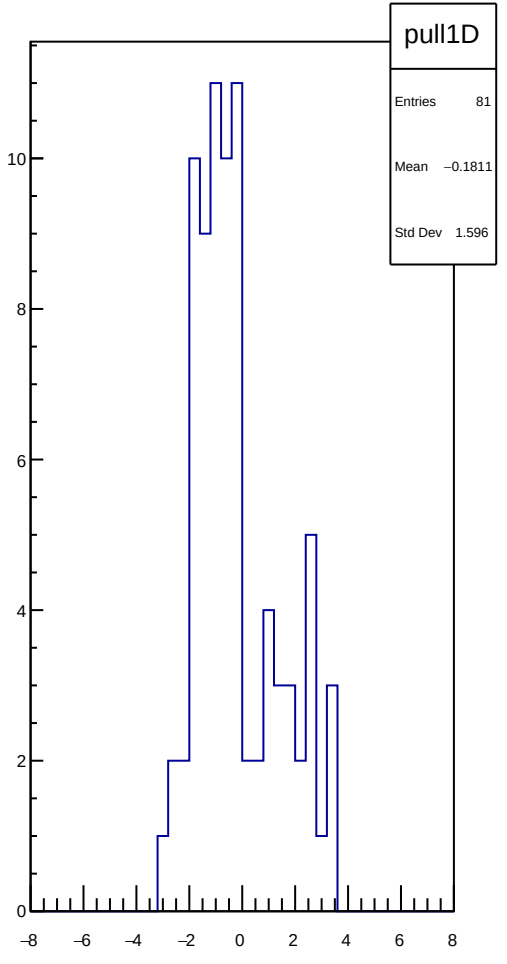

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 39.52 / 80
p0 −102.2 ± 4.203
200
100
0
−100
−200
pull
Entries 81
Mean 120.7
Std Dev 69.9
2
1.5
1
0.5
0
−0.5
−1

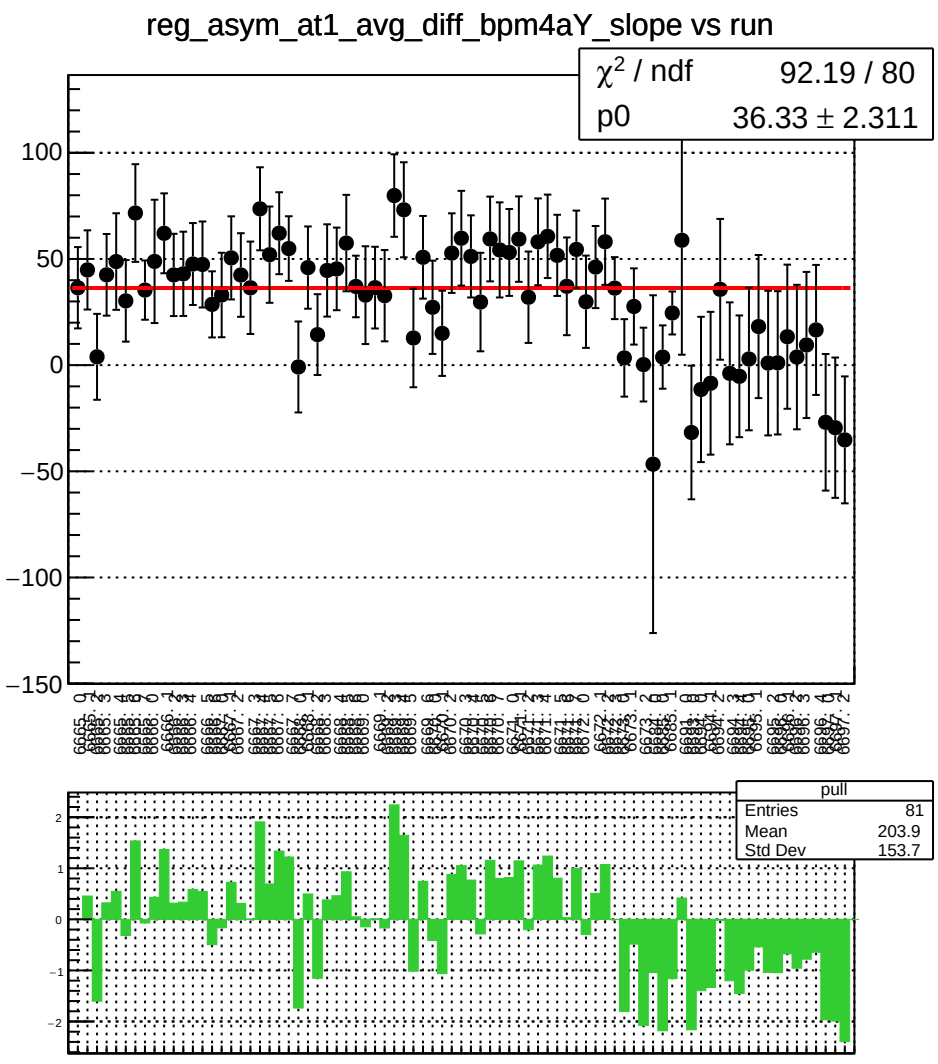

pull1D
Entries 81
Mean 0.1153
Std Dev 0.6889
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

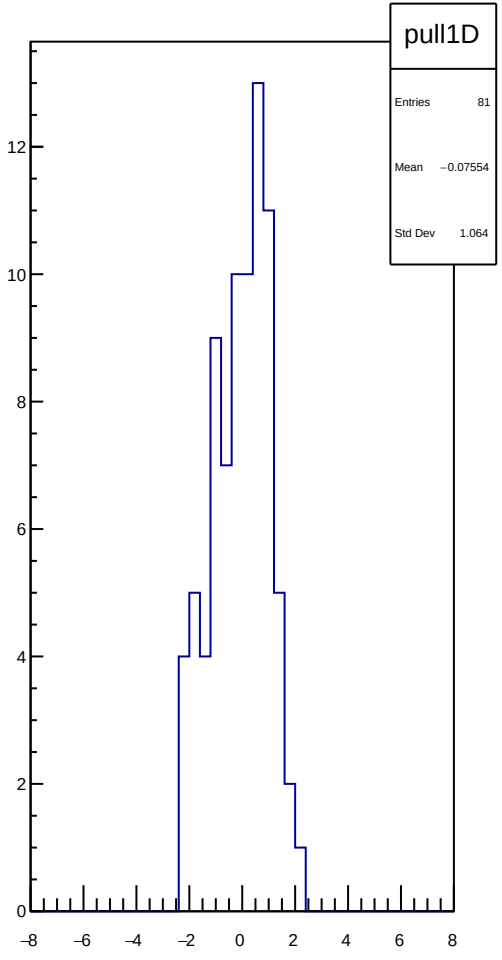

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 138.2 / 80
p0 127.6 ± 0.1866
pull
Entries 81
Mean 605.8
Std Dev 553.6

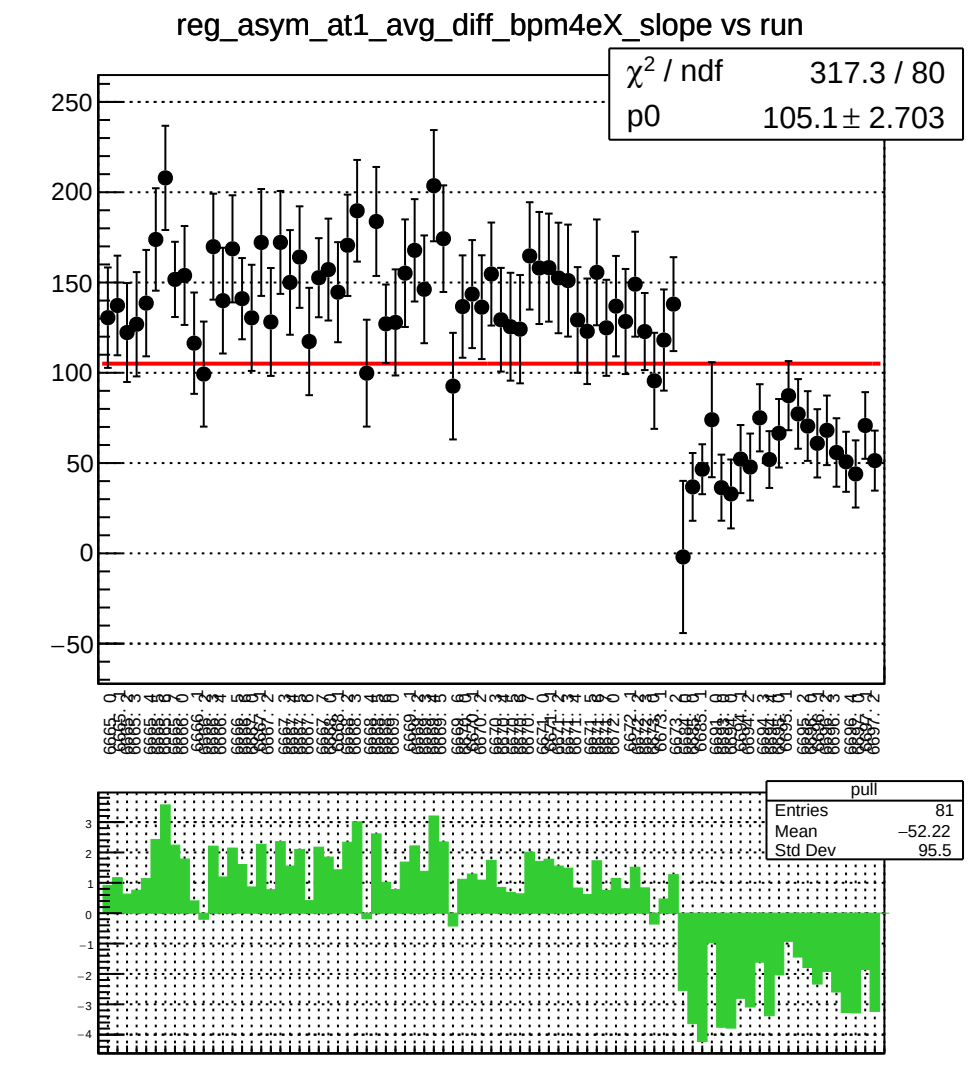

pull1D
Entries 81
Mean −0.02544
Std Dev 1.306

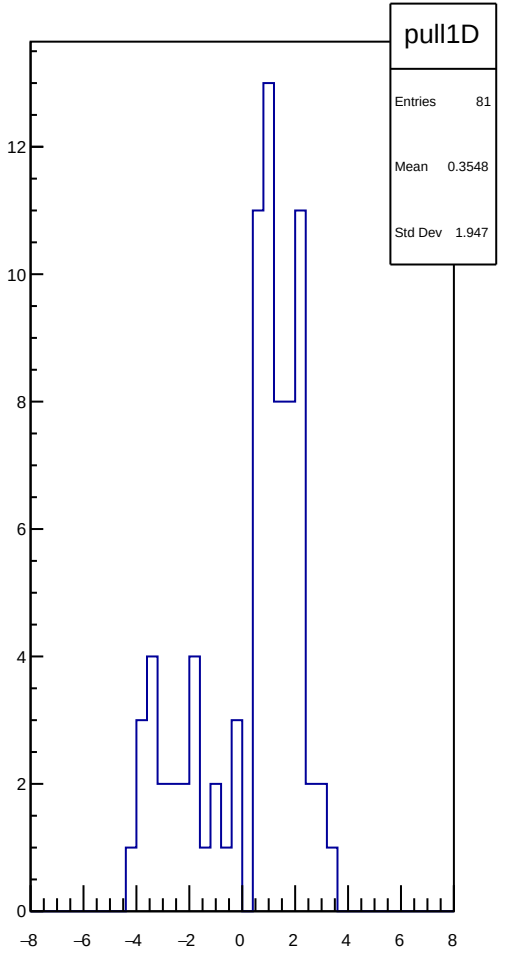

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 209.1 / 80
p0 −106.9 ± 2.619
50
0
−50
−100
−150
−200
pull
Entries 81
Mean −101
Std Dev 145.3
3
2
1
0
−1
−2
−3

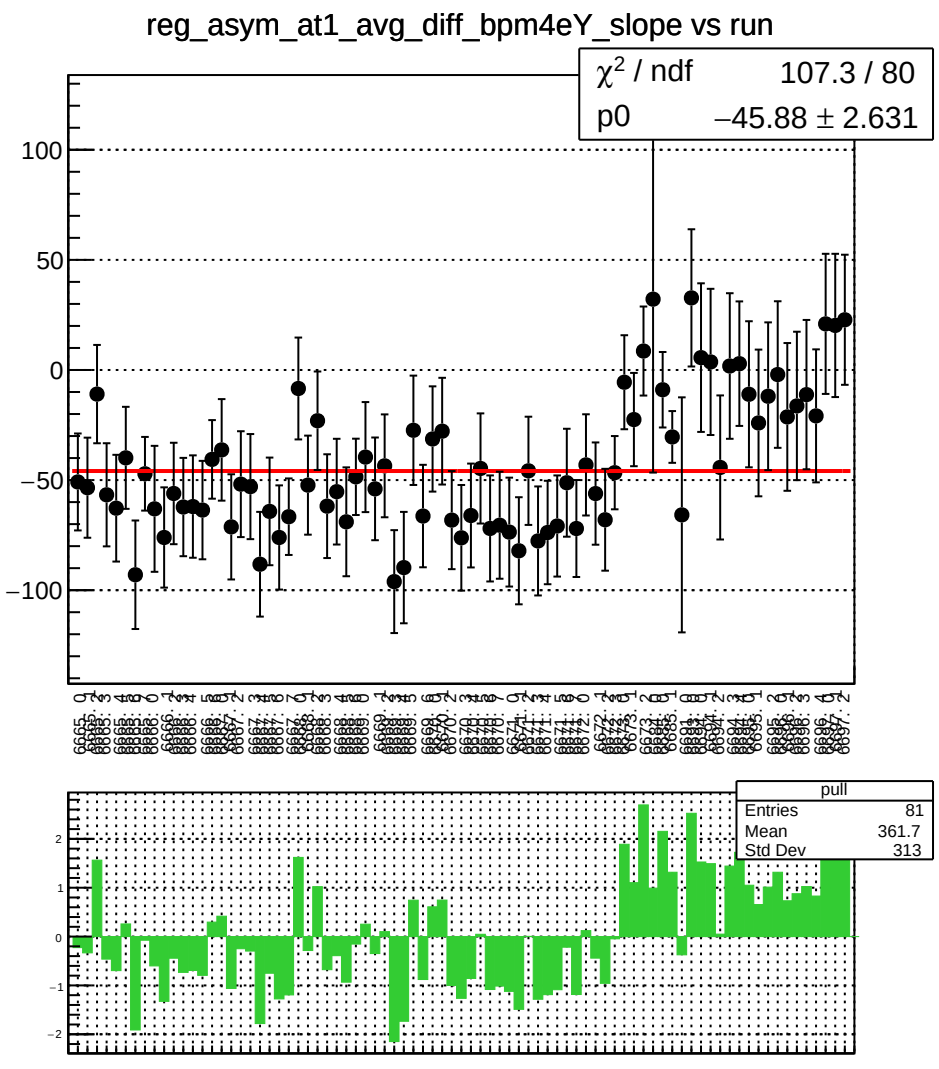

pull1D
Entries 81
Mean −0.1811
Std Dev 1.596
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

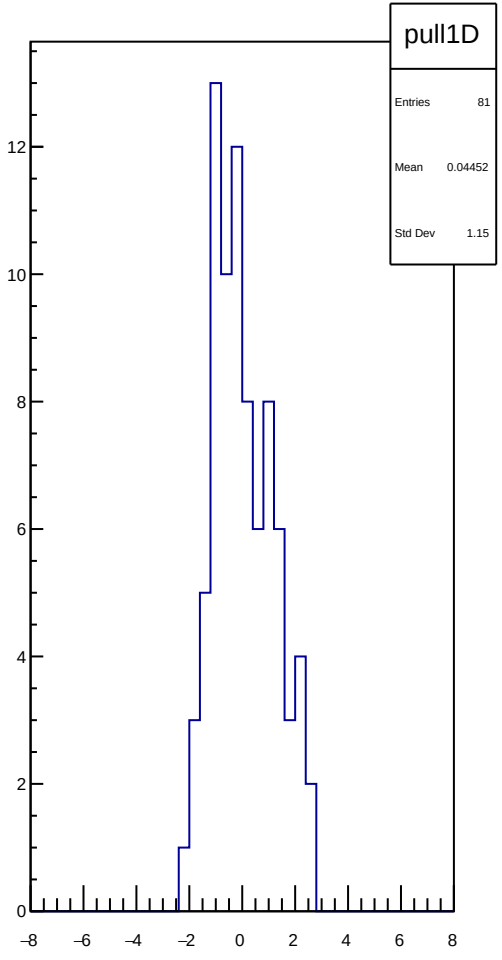

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 92.19 / 80
p0 36.33 ± 2.311
pull
Entries 81
Mean 203.9
Std Dev 153.7

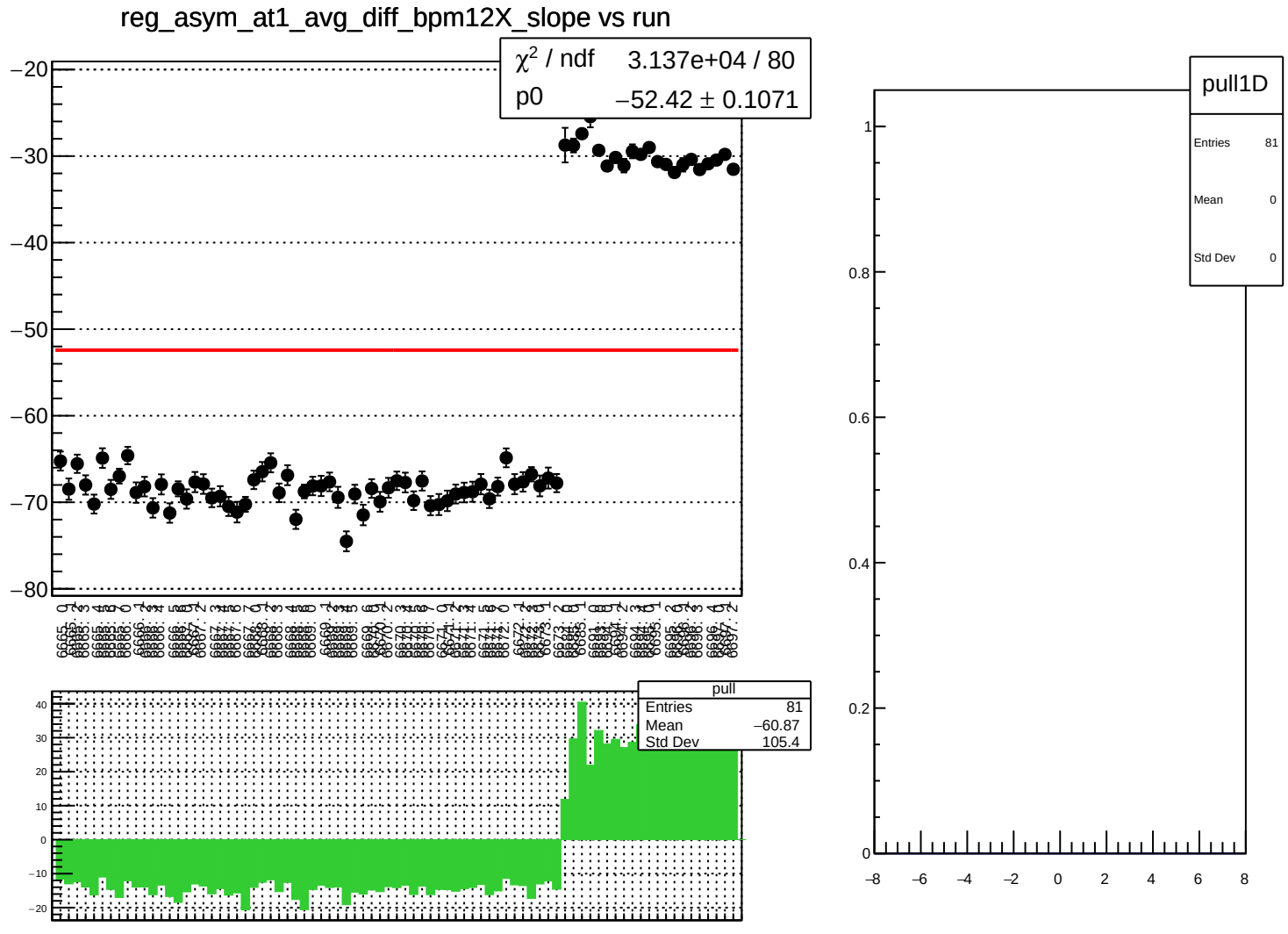

pull1D
Entries 81
Mean −0.07554
Std Dev 1.064

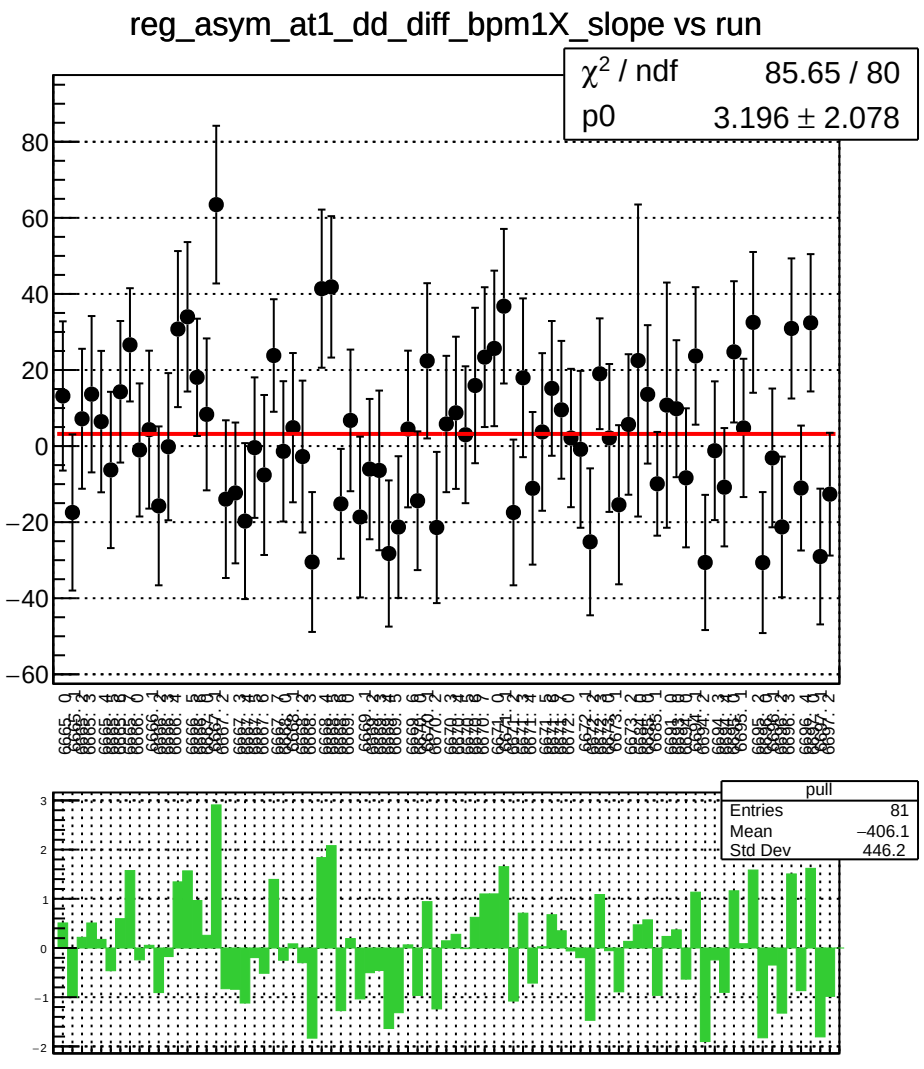

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 317.3 / 80
p0 105.1 ± 2.703
250
200
150
100
50
0
−50
pull
Entries 81
Mean −52.22
Std Dev 95.5
3
2
1
0
−1
−2
−3
−4

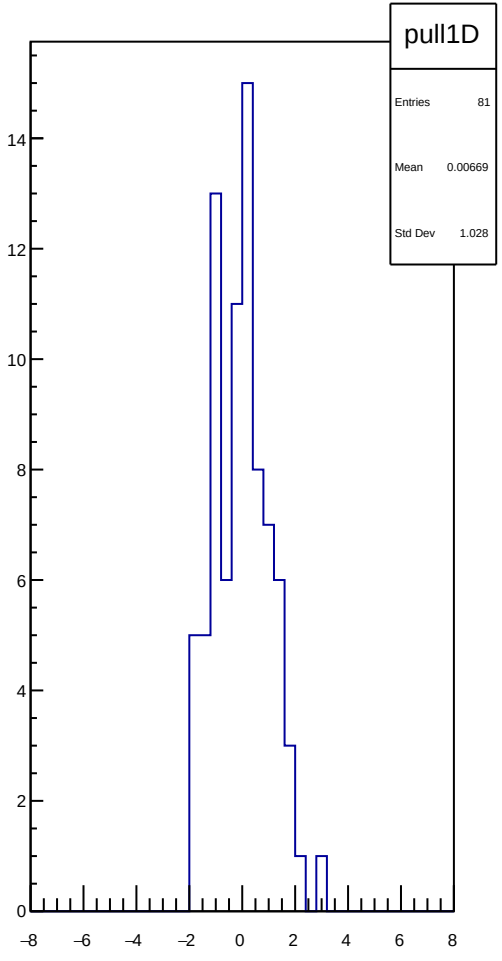

pull1D
Entries 81
Mean 0.3548
Std Dev 1.947
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

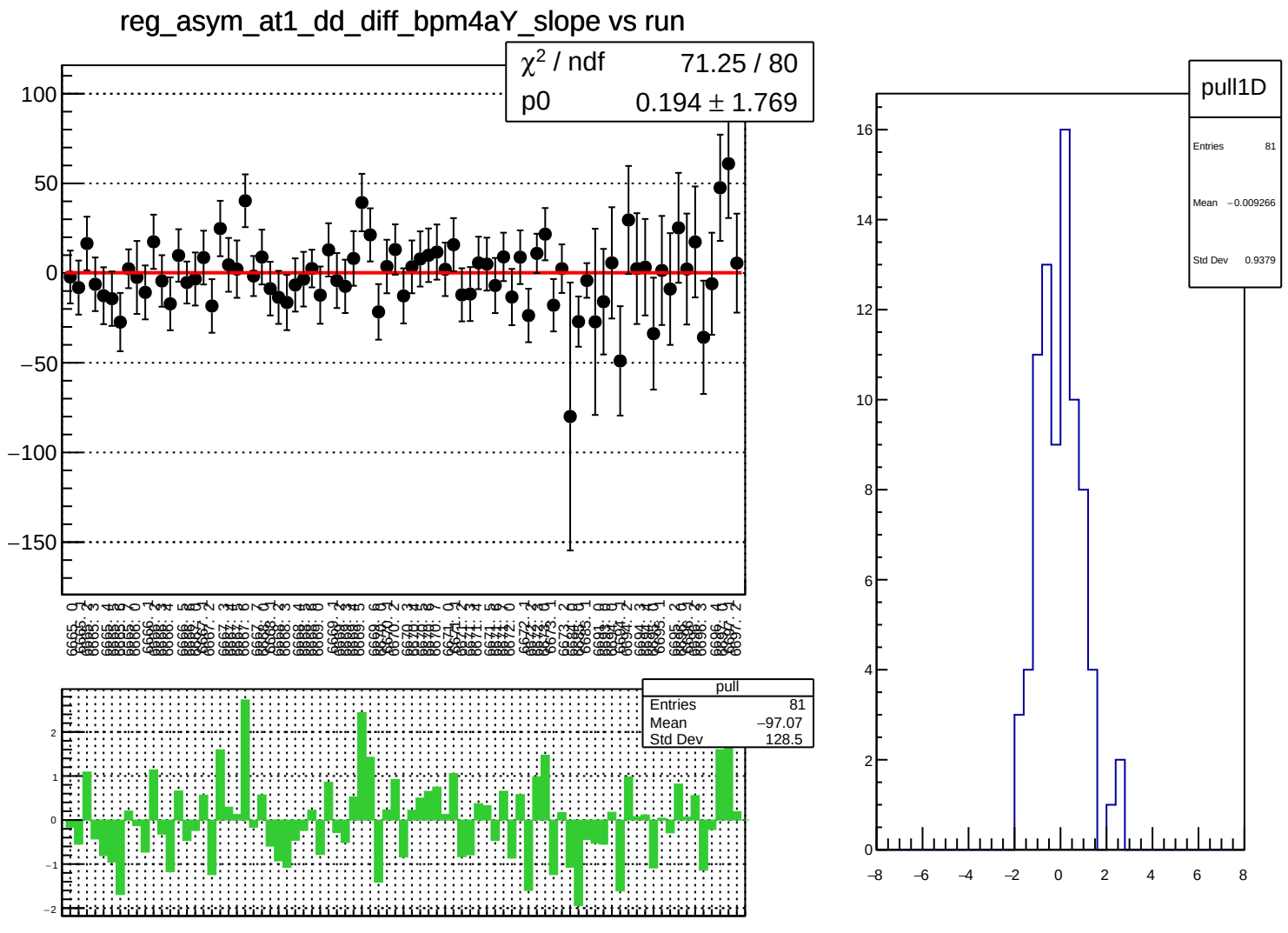

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 107.3 / 80
p0 −45.88 ± 2.631
100
50
0
−50
−100
pull
Entries 81
Mean 361.7
Std Dev 313
2
1
0
−1
−2

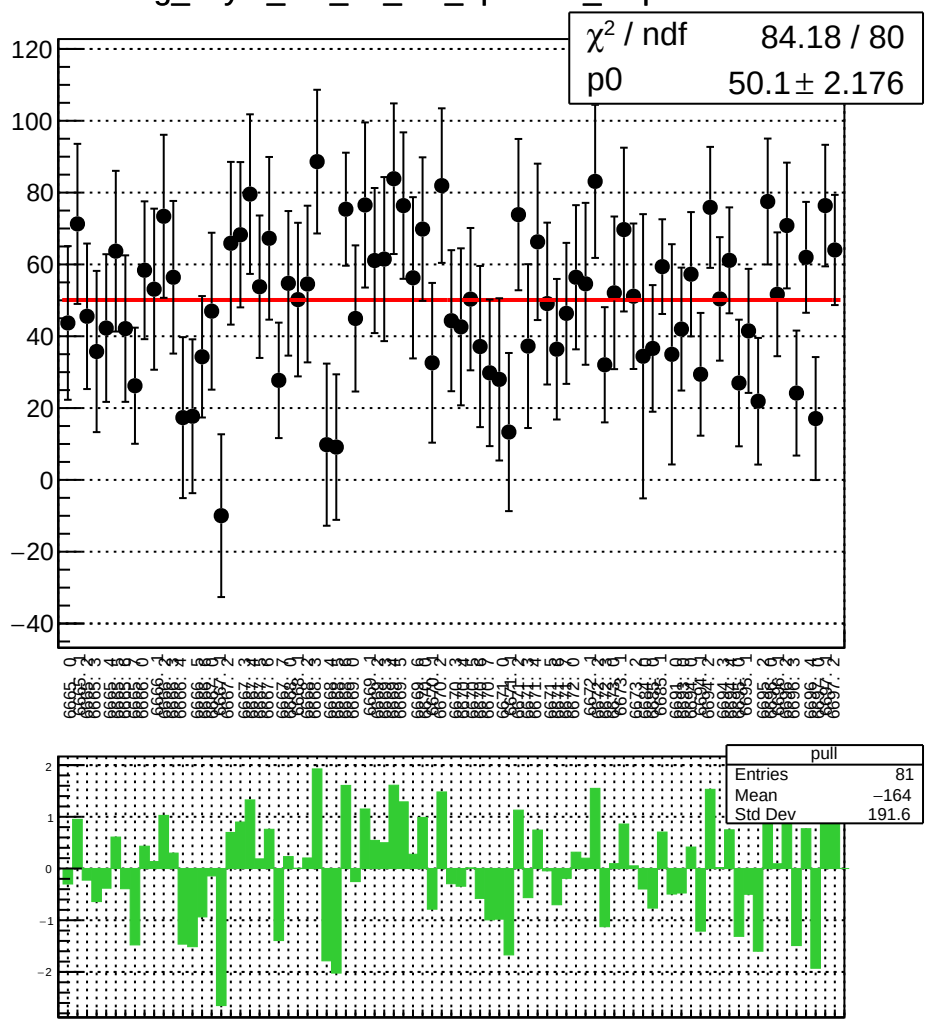

pull1D
Entries 81
Mean 0.04452
Std Dev 1.15
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

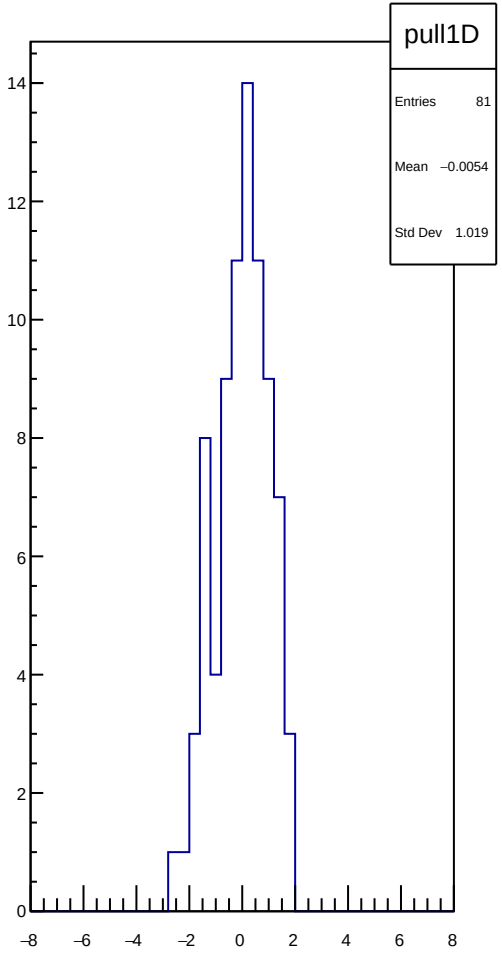

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 3.137e+04 / 80
p0 −52.42 ± 0.1071
pull
Entries 81
Mean −60.87
Std Dev 105.4
pull1D
Entries 81
Mean 0
Std Dev 0

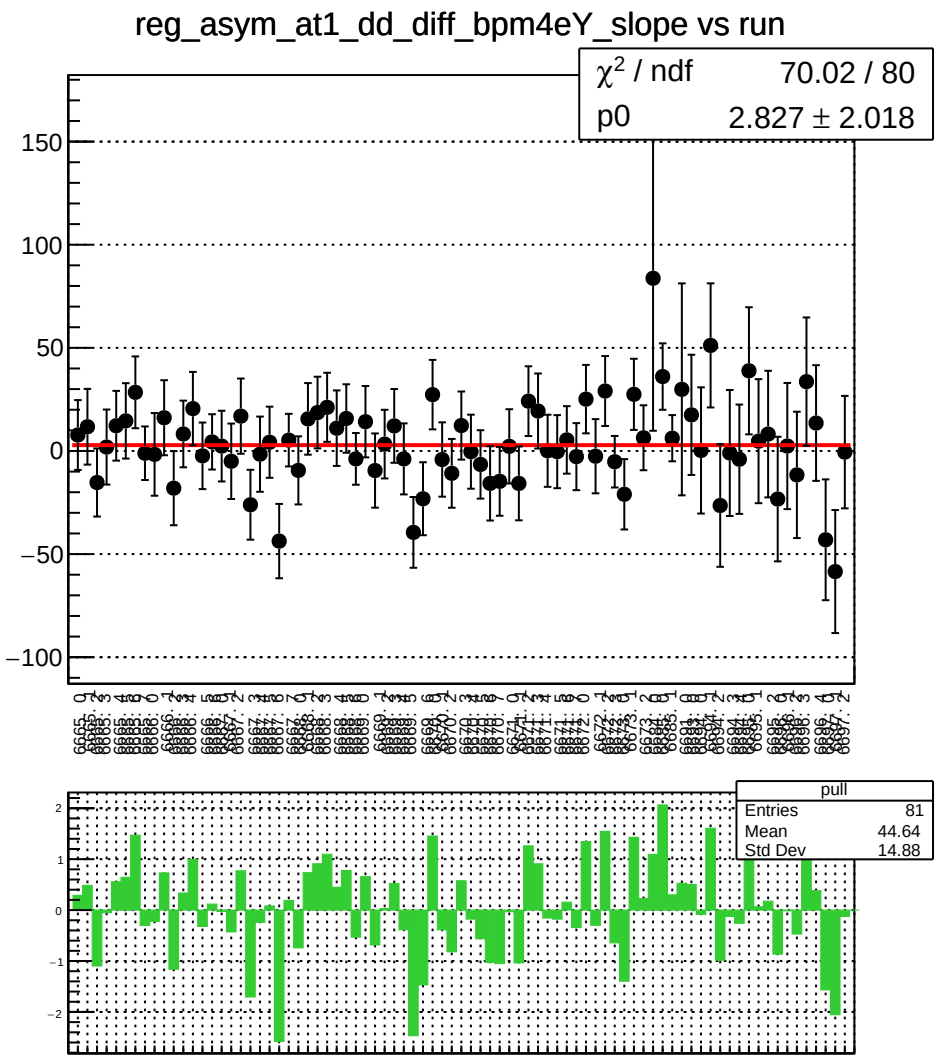

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 85.65 / 80
p0 3.196 ± 2.078
pull
Entries 81
Mean −406.1
Std Dev 446.2

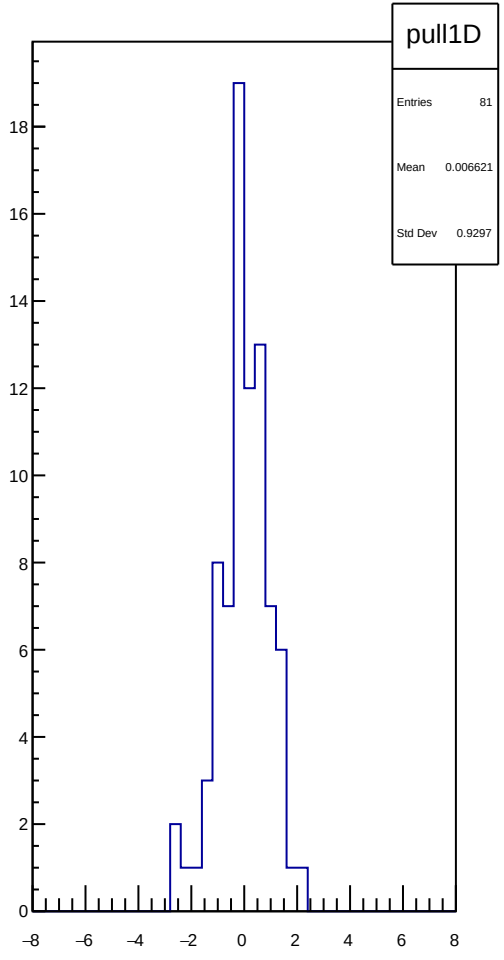

pull1D
Entries 81
Mean 0.00669
Std Dev 1.028

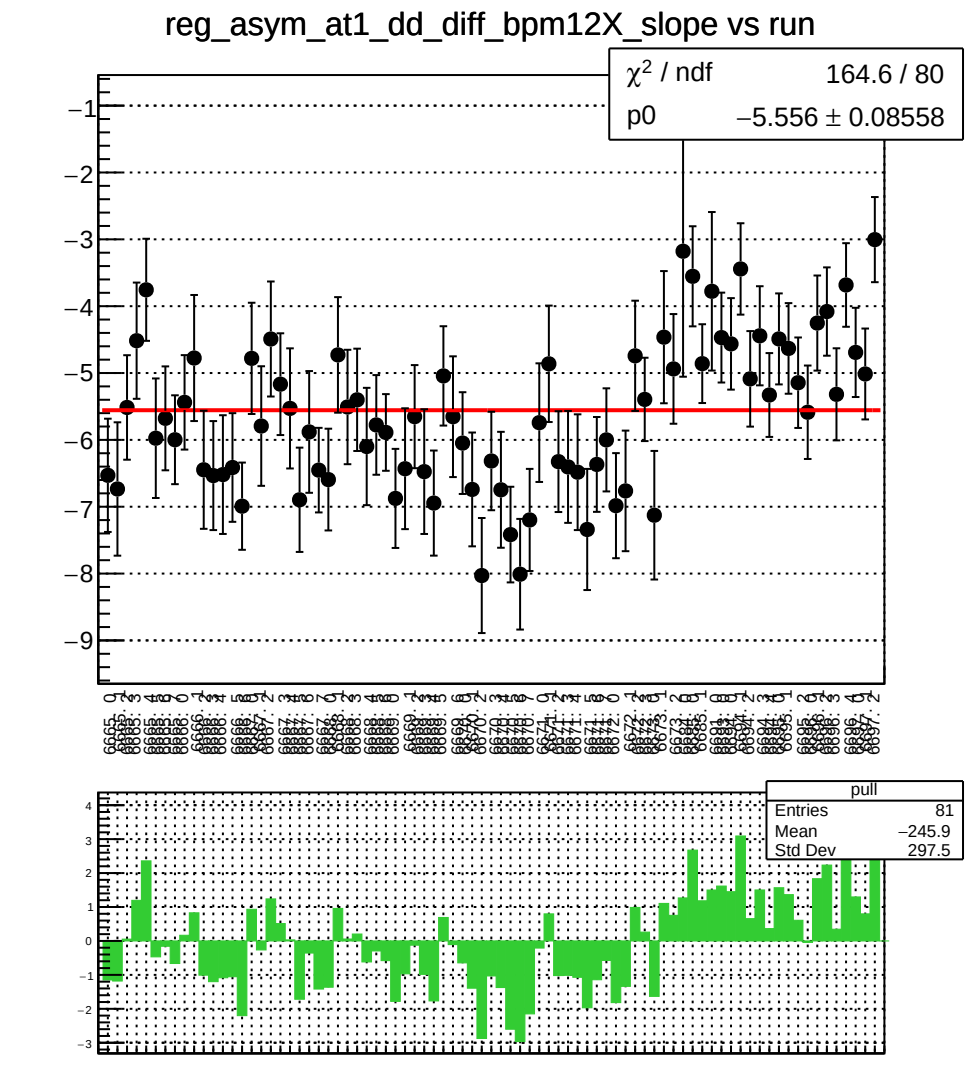

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 71.25 / 80
p0 0.194 ± 1.769
pull
Entries 81
Mean −97.07
Std Dev 128.5
pull1D
Entries 81
Mean −0.009266
Std Dev 0.9379

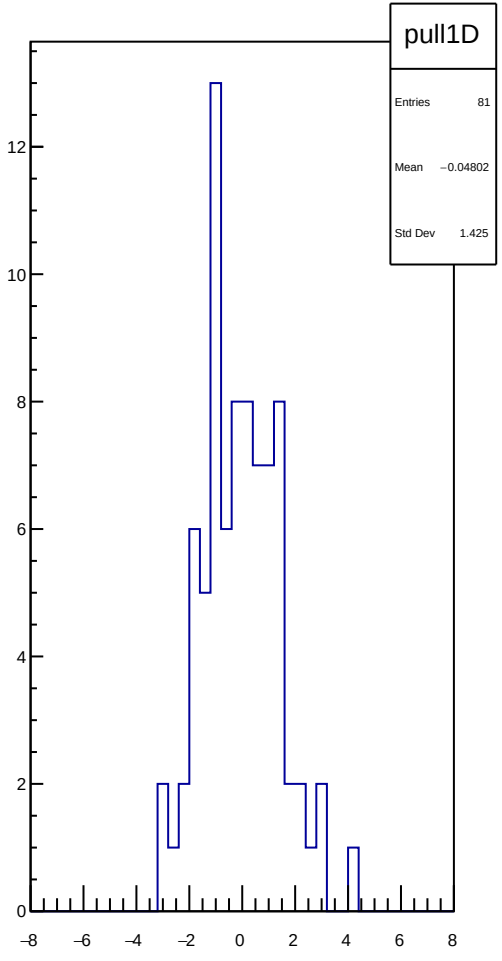

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 84.18 / 80
p0 50.1 ± 2.176
pull
Entries 81
Mean −164
Std Dev 191.6

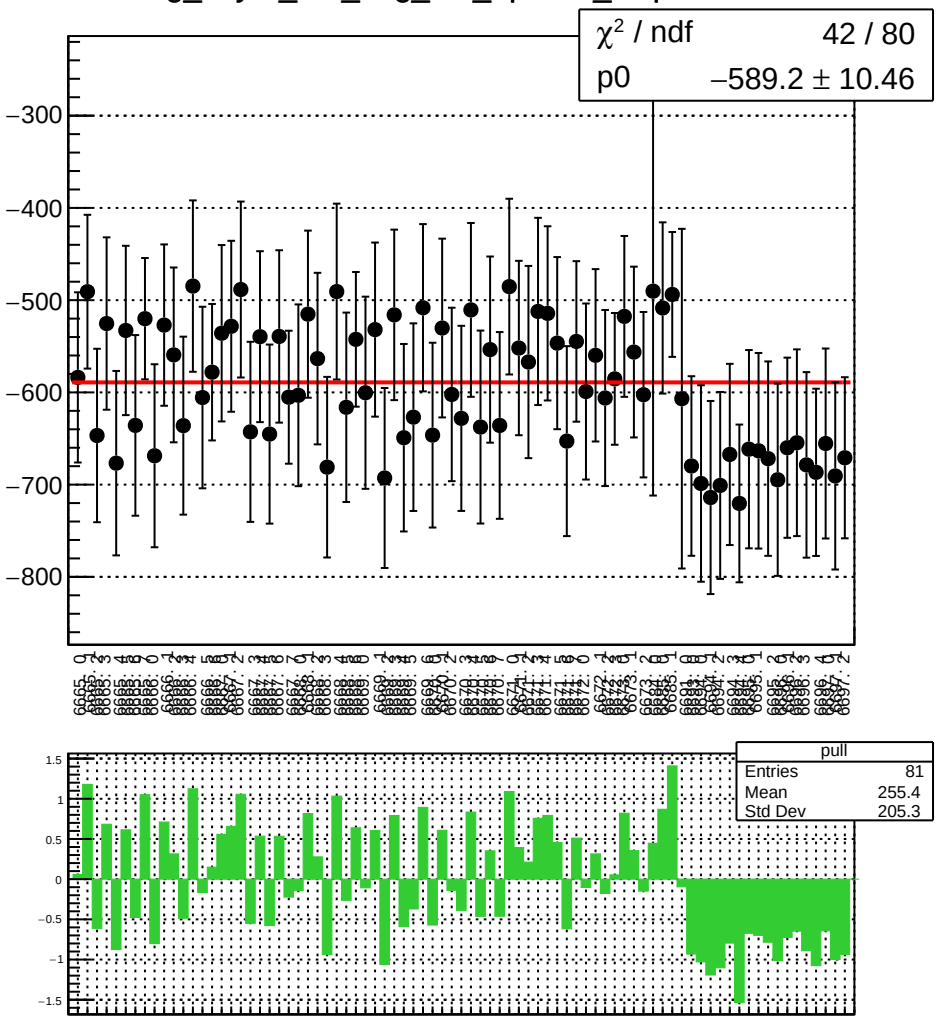

pull1D
Entries 81
Mean −0.0054
Std Dev 1.019

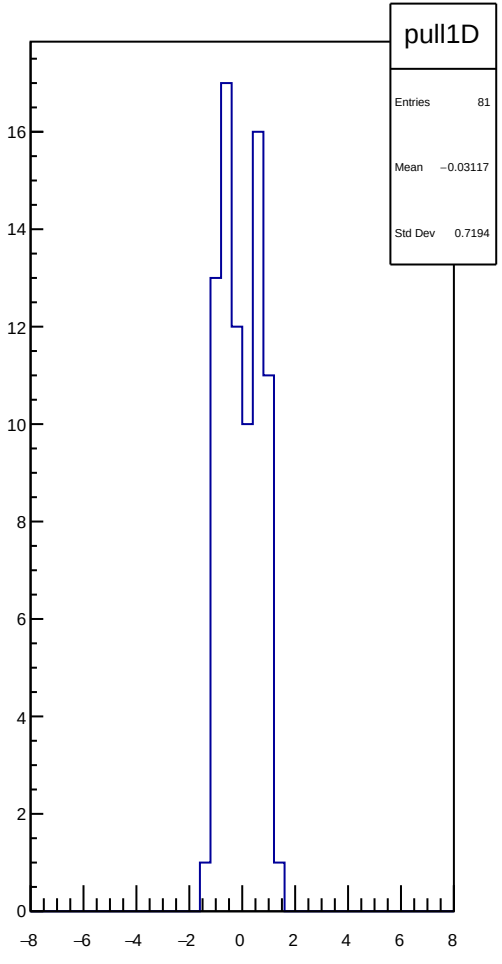

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 70.02 / 80
p0 2.827 ± 2.018
150
100
50
0
−50
−100
pull
Entries 81
Mean 44.64
Std Dev 14.88
2
1
0
−1
−2

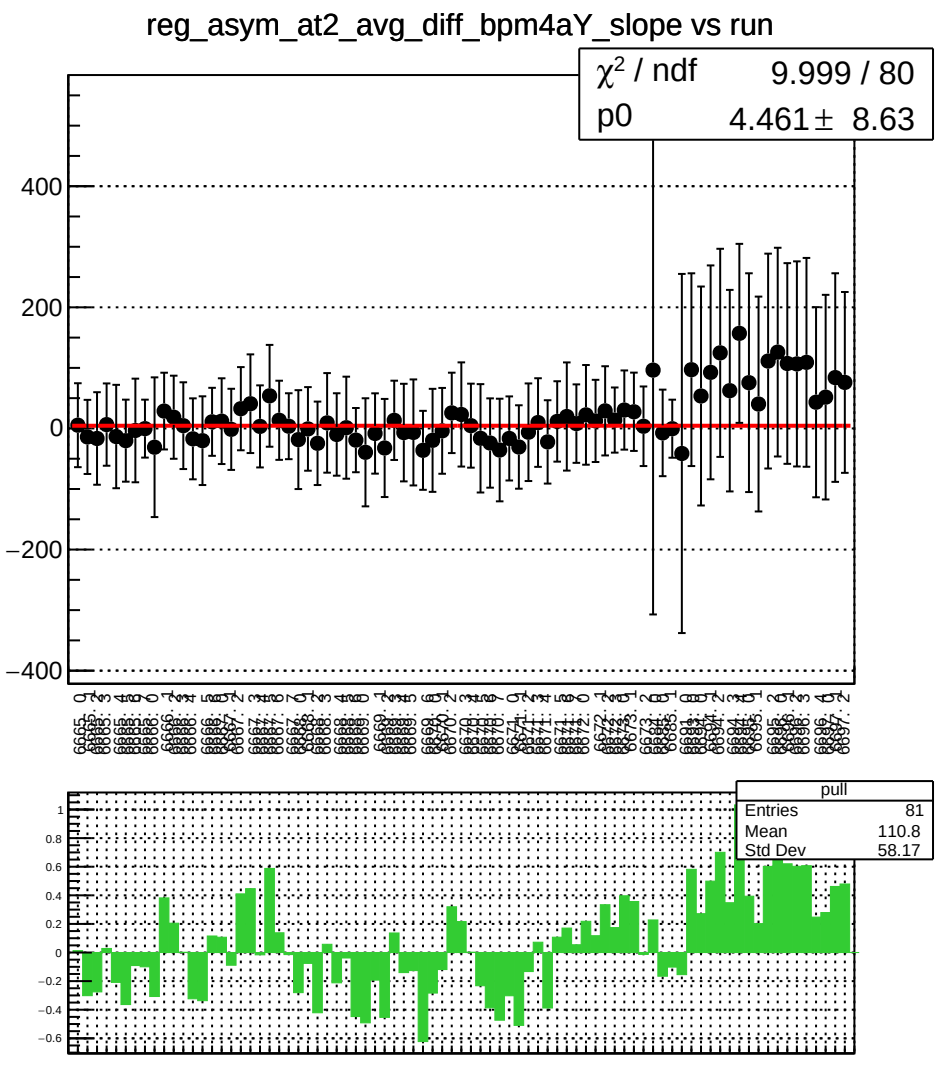

pull1D
Entries 81
Mean 0.006621
Std Dev 0.9297
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

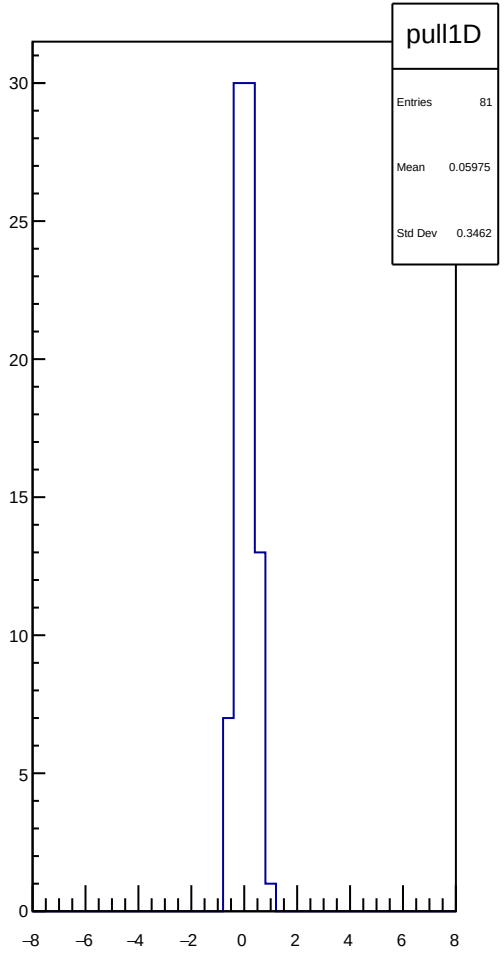

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 164.6 / 80
p0 −5.556 ± 0.08558
pull
Entries 81
Mean −245.9
Std Dev 297.5

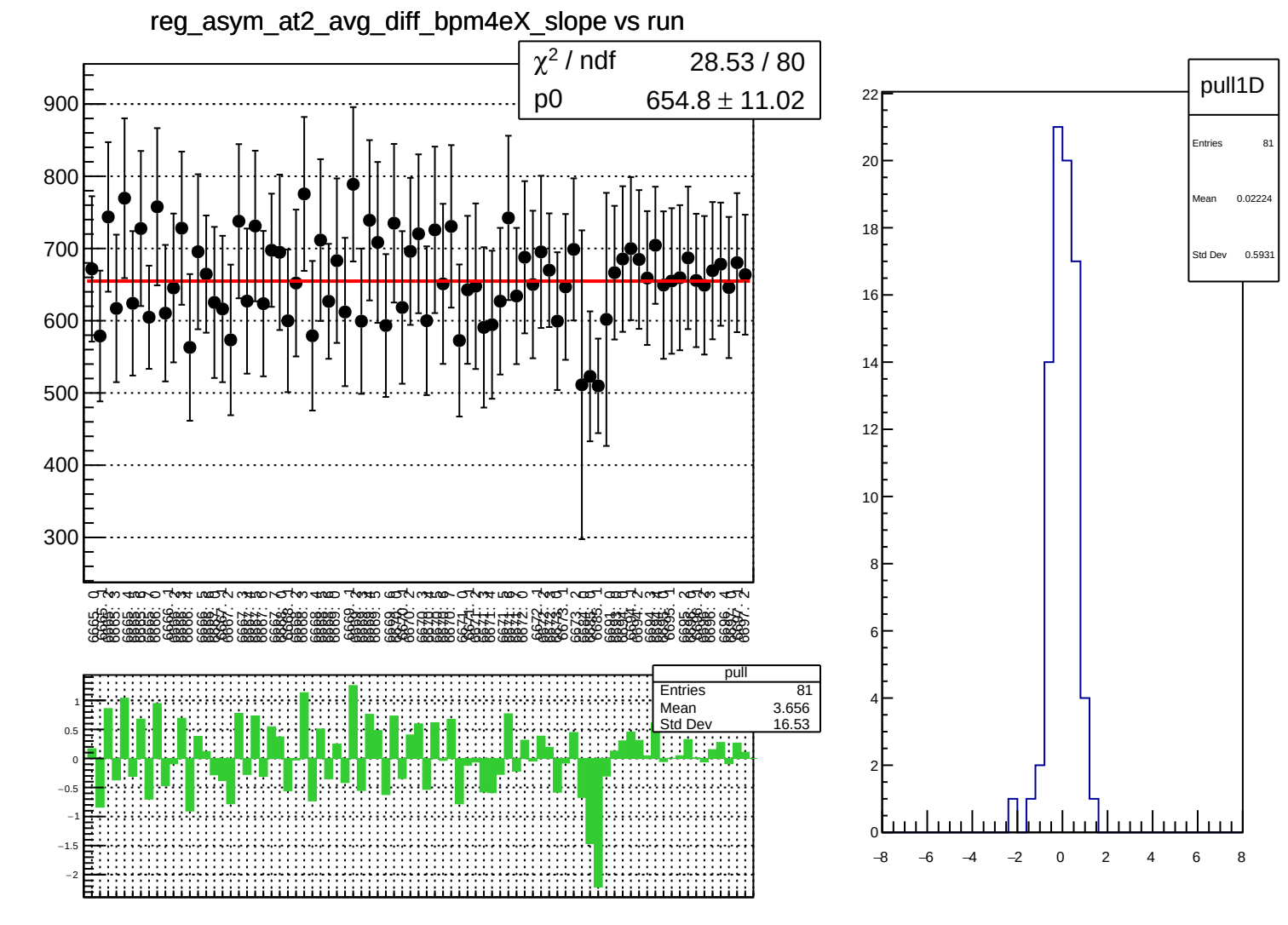

pull1D
Entries 81
Mean −0.04802
Std Dev 1.425

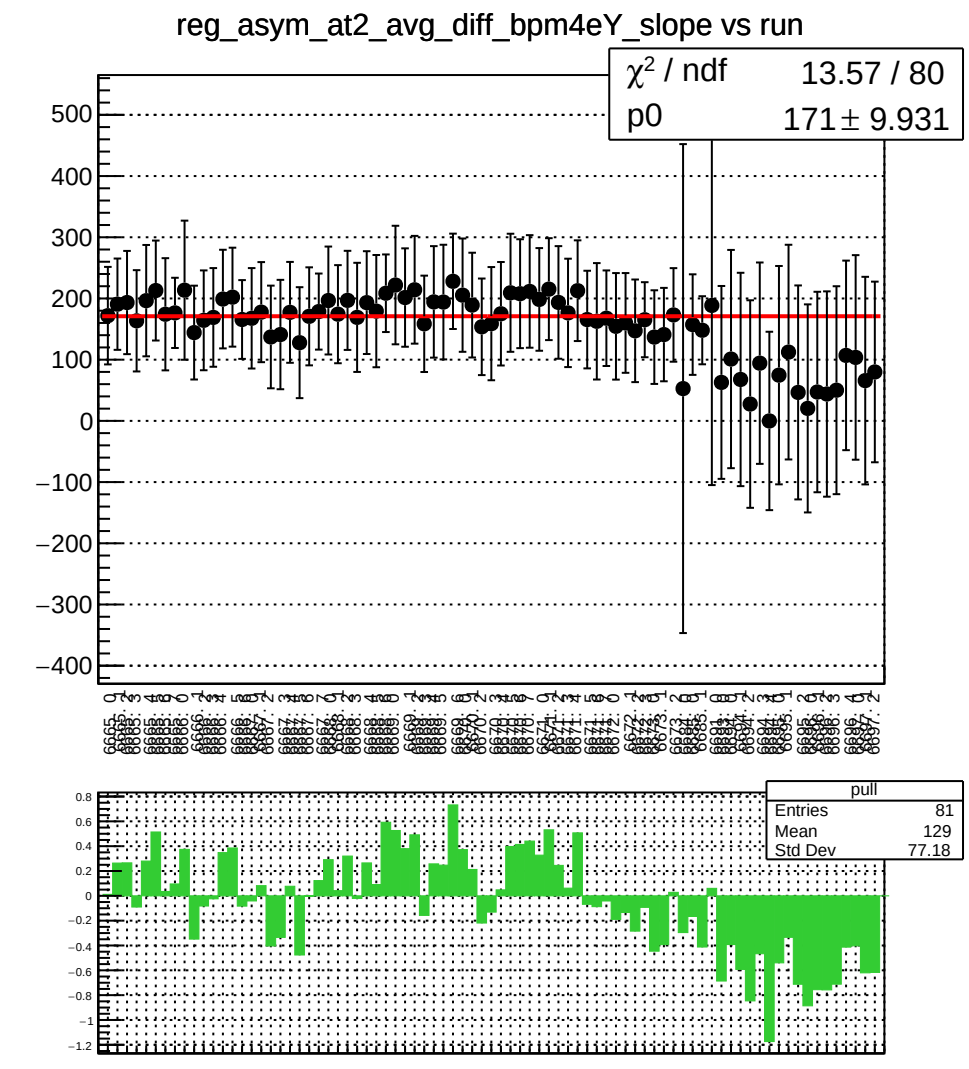

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 42 / 80
p0 −589.2 ± 10.46
−300
−400
−500
−600
−700
−800
pull
Entries 81
Mean 255.4
Std Dev 205.3
1.5
1
0.5
0
−0.5
−1
−1.5

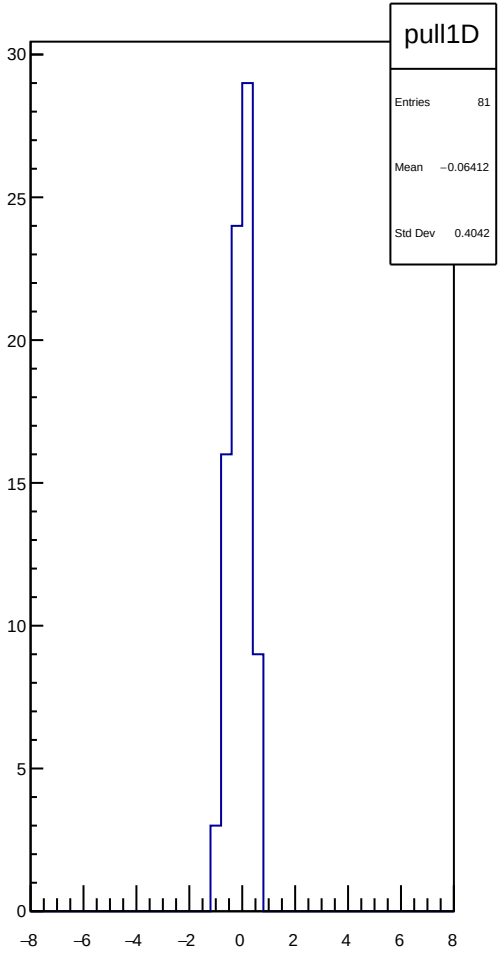

pull1D
Entries 81
Mean −0.03117
Std Dev 0.7194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

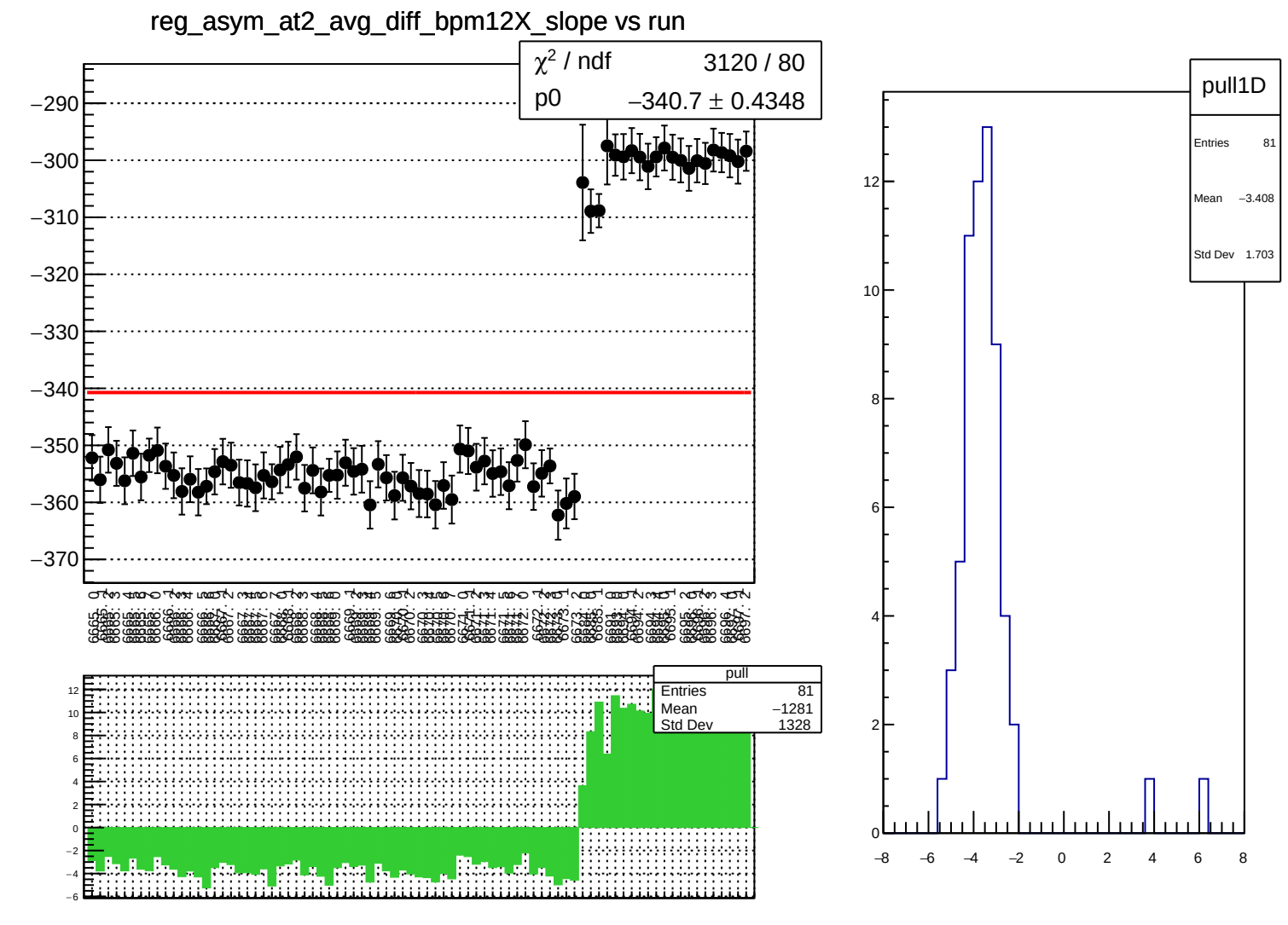

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 9.999 / 80
p0 4.461 ± 8.63
400
200
0
−200
−400
pull
Entries 81
Mean 110.8
Std Dev 58.17
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6

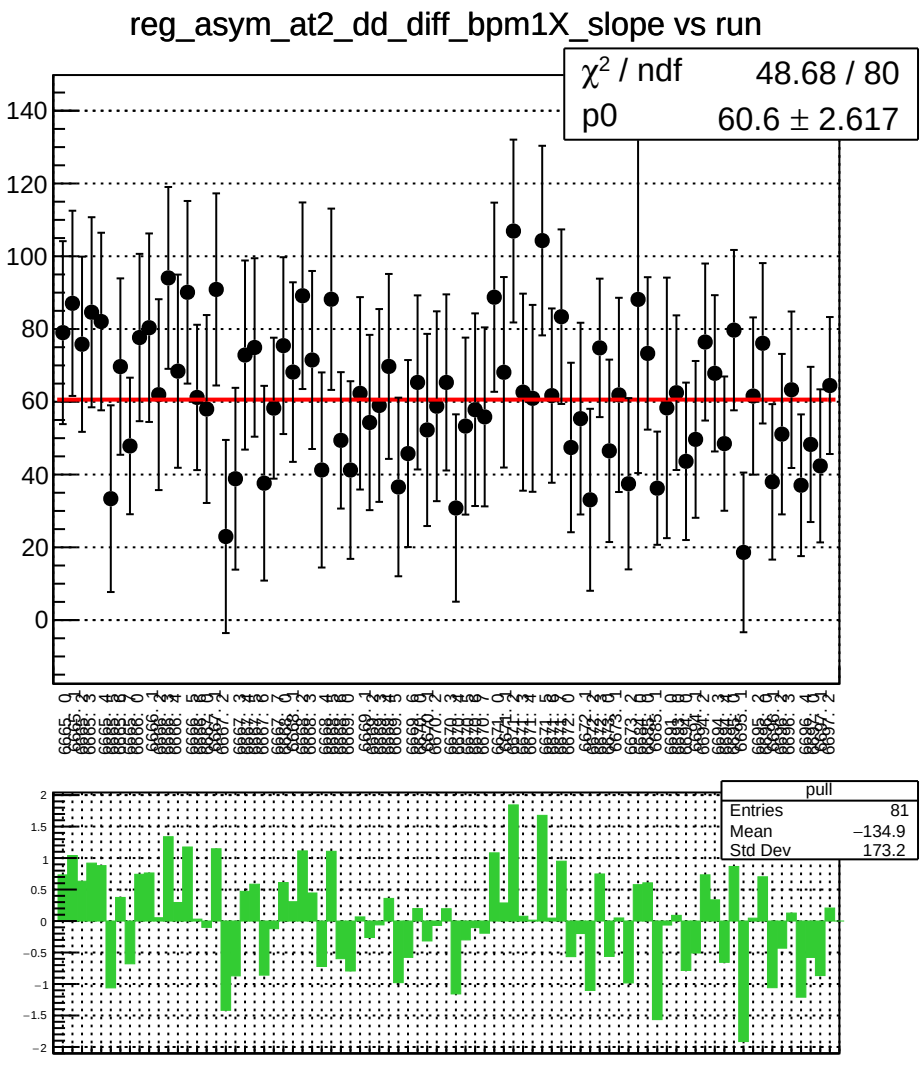

pull1D
Entries 81
Mean 0.05975
Std Dev 0.3462
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

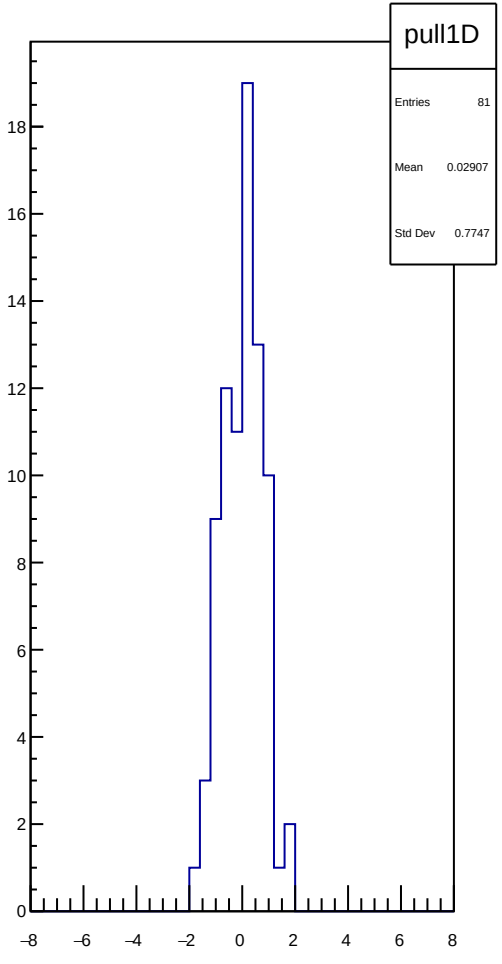

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.53 / 80
p0 654.8 ± 11.02
900
800
700
600
500
400
300
pull
Entries 81
Mean 3.656
Std Dev 16.53
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.02224
Std Dev 0.5931
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

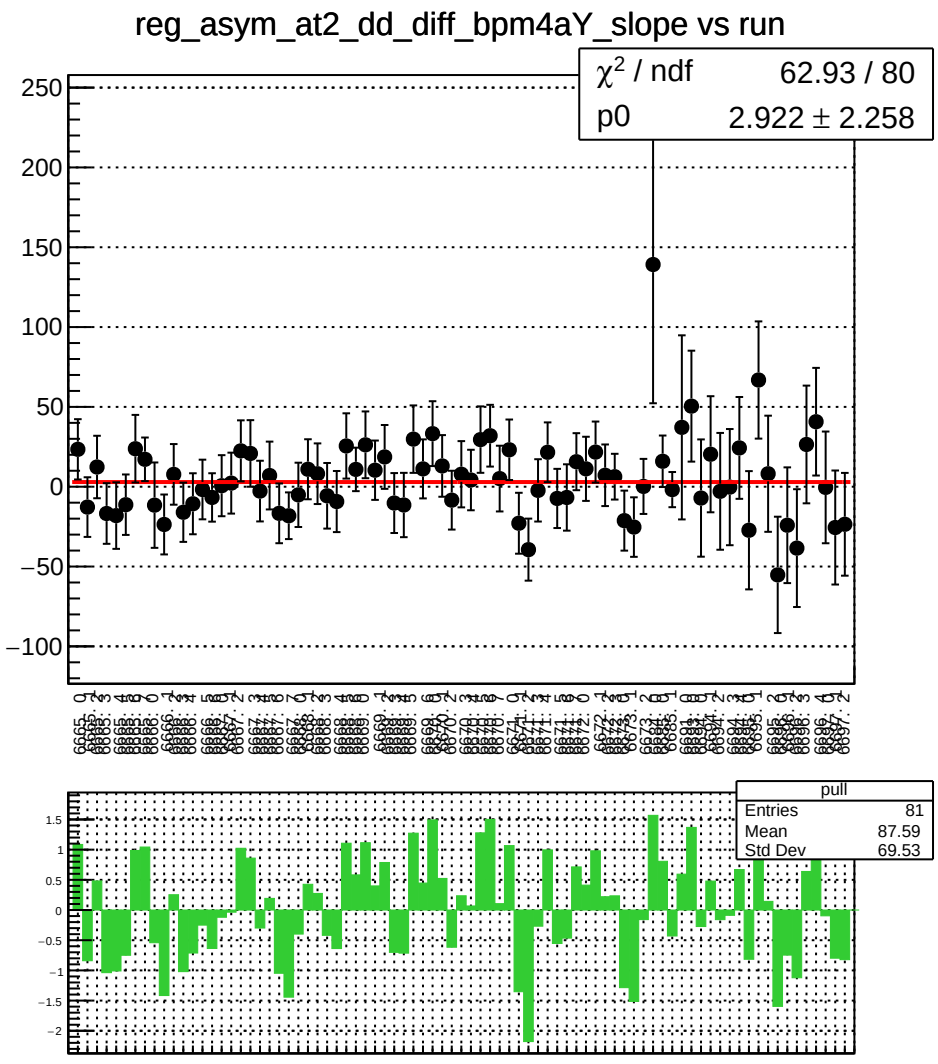

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.57 / 80
p0 171 ± 9.931
pull
Entries 81
Mean 129
Std Dev 77.18

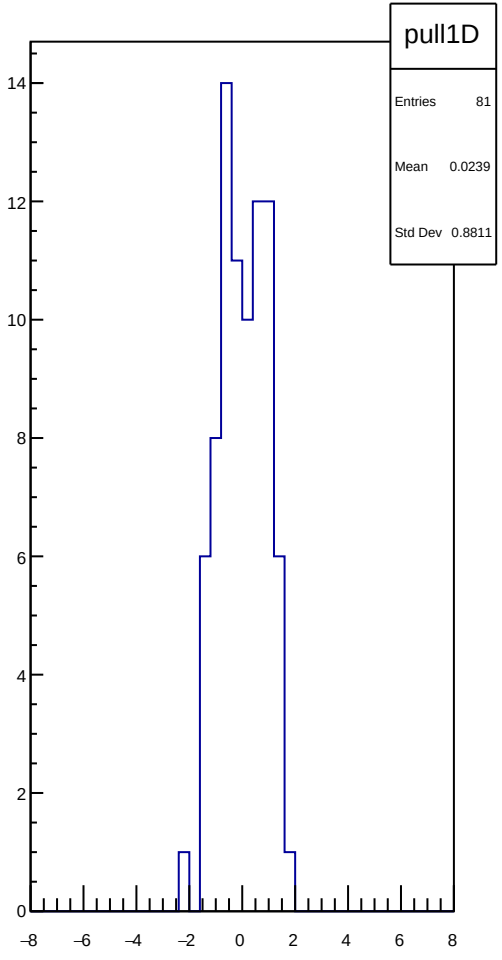

pull1D
Entries 81
Mean −0.06412
Std Dev 0.4042

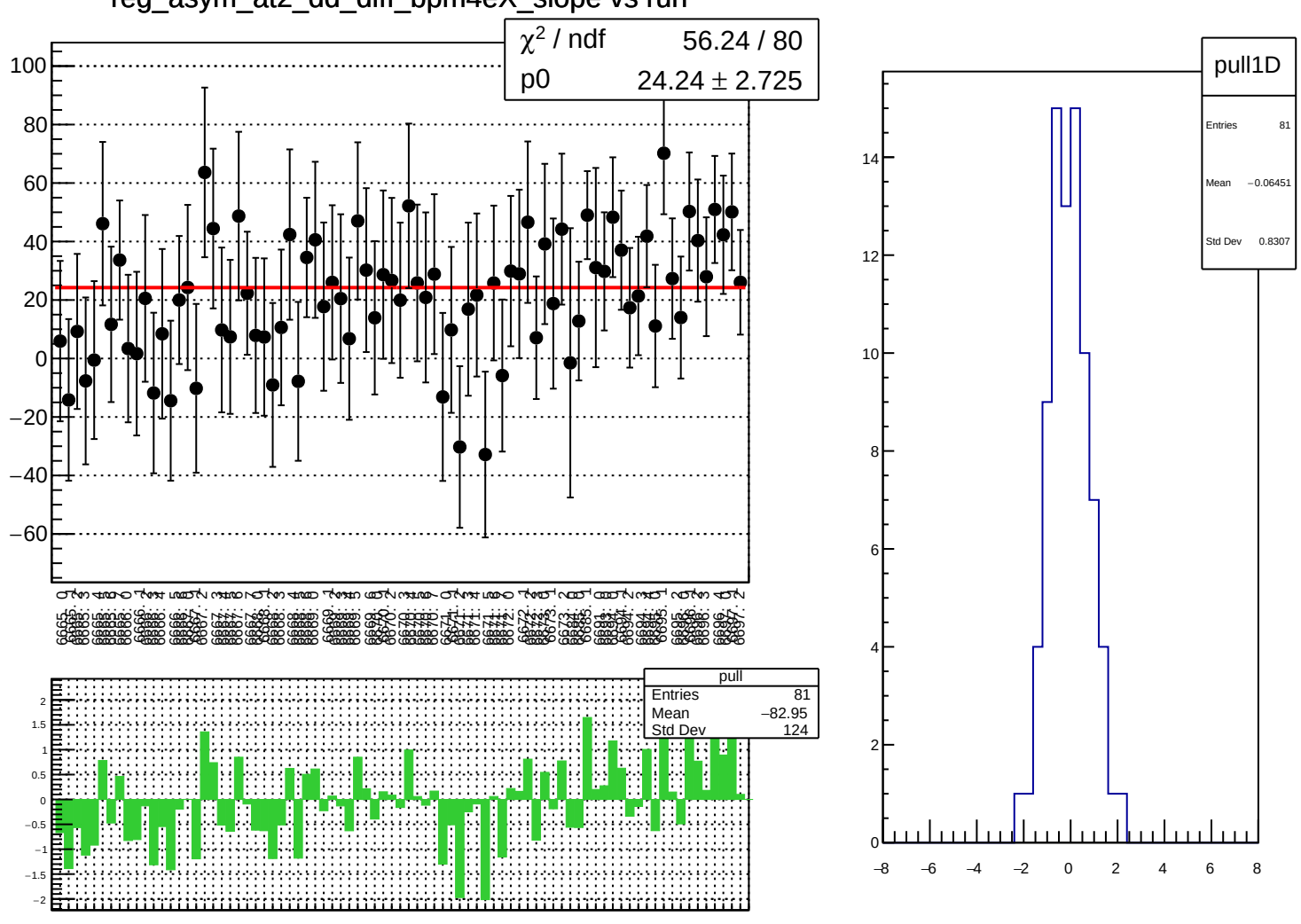

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 3120 / 80
p0 −340.7 ± 0.4348
pull
Entries 81
Mean −1281
Std Dev 1328
pull1D
Entries 81
Mean −3.408
Std Dev 1.703

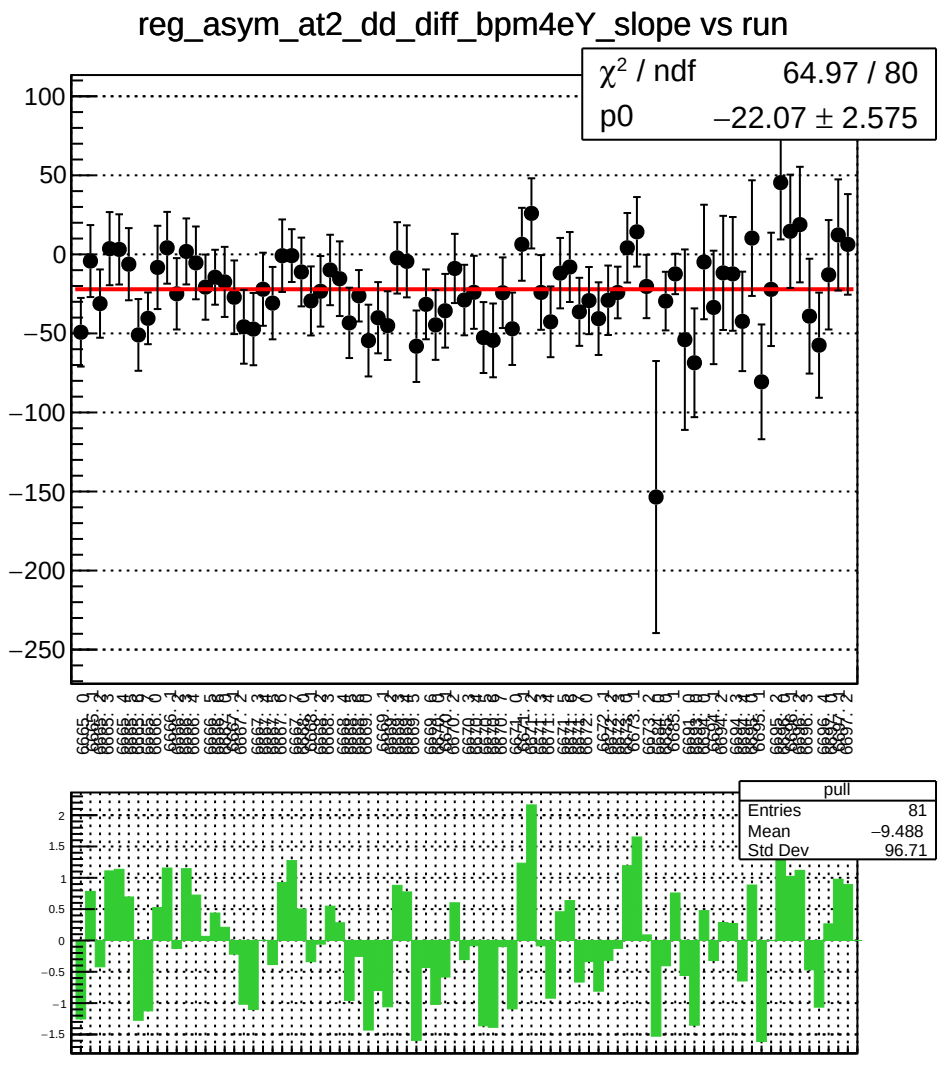

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 48.68 / 80
p0 60.6 ± 2.617
pull
Entries 81
Mean −134.9
Std Dev 173.2

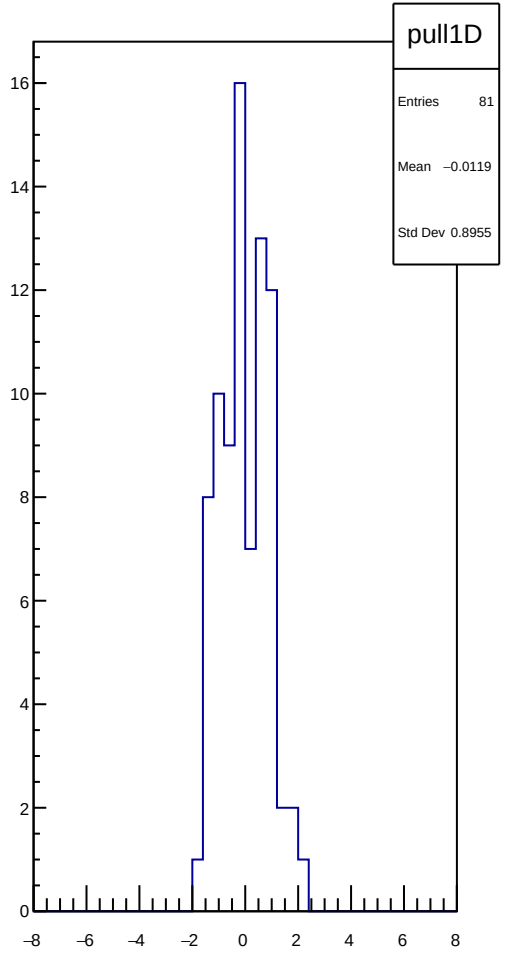

pull1D
Entries 81
Mean 0.02907
Std Dev 0.7747

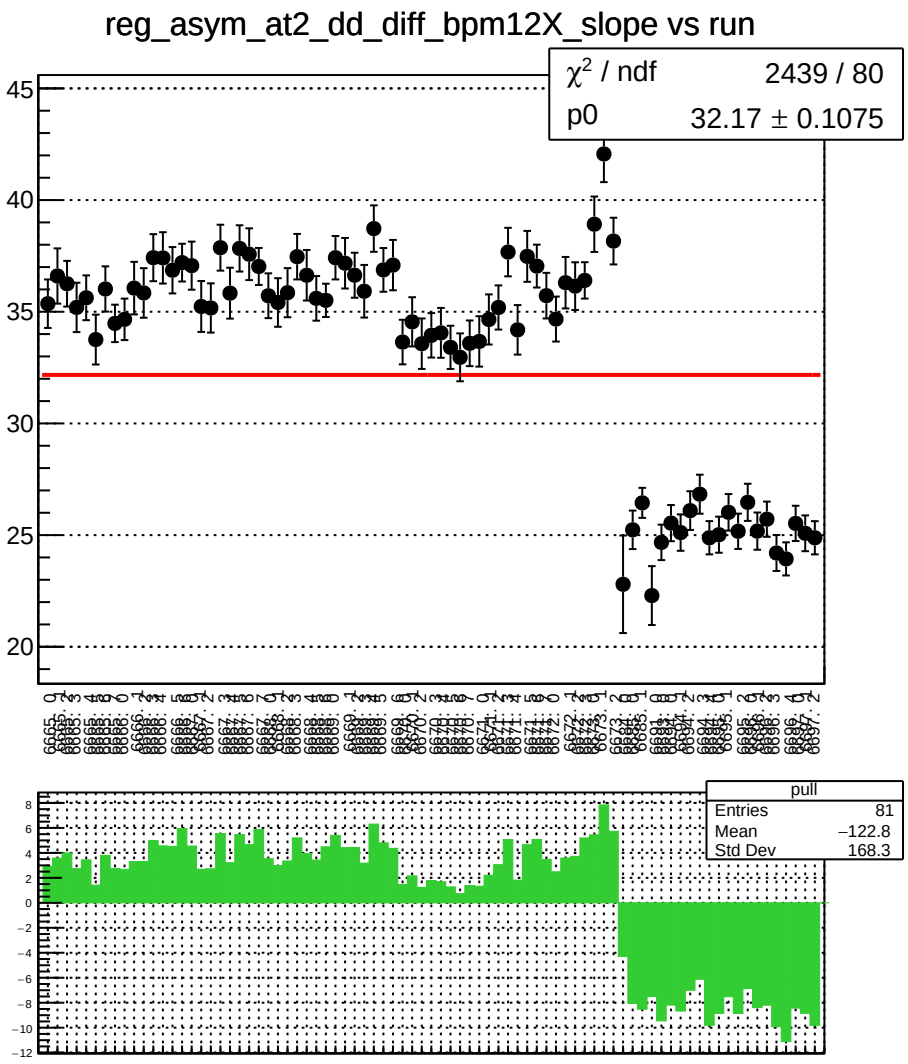

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 62.93 / 80
p0 2.922 ± 2.258
pull
Entries 81
Mean 87.59
Std Dev 69.53

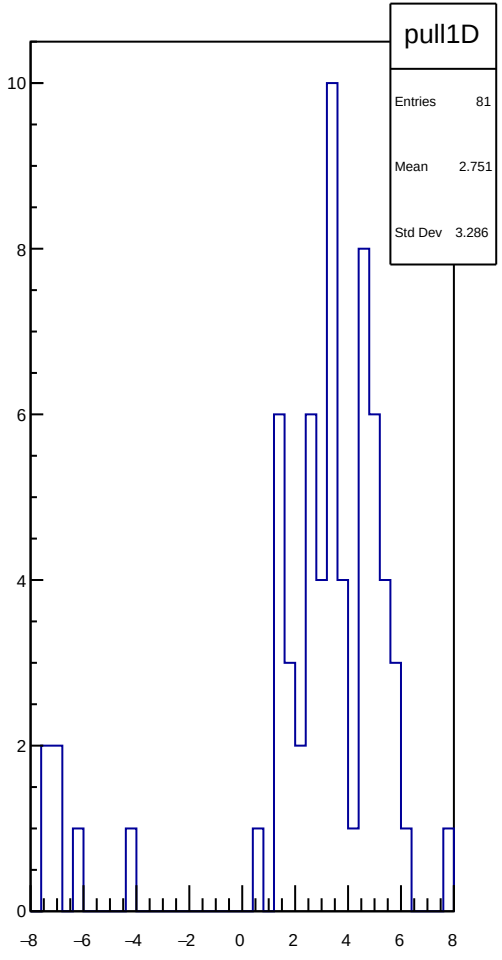

pull1D
Entries 81
Mean 0.0239
Std Dev 0.8811

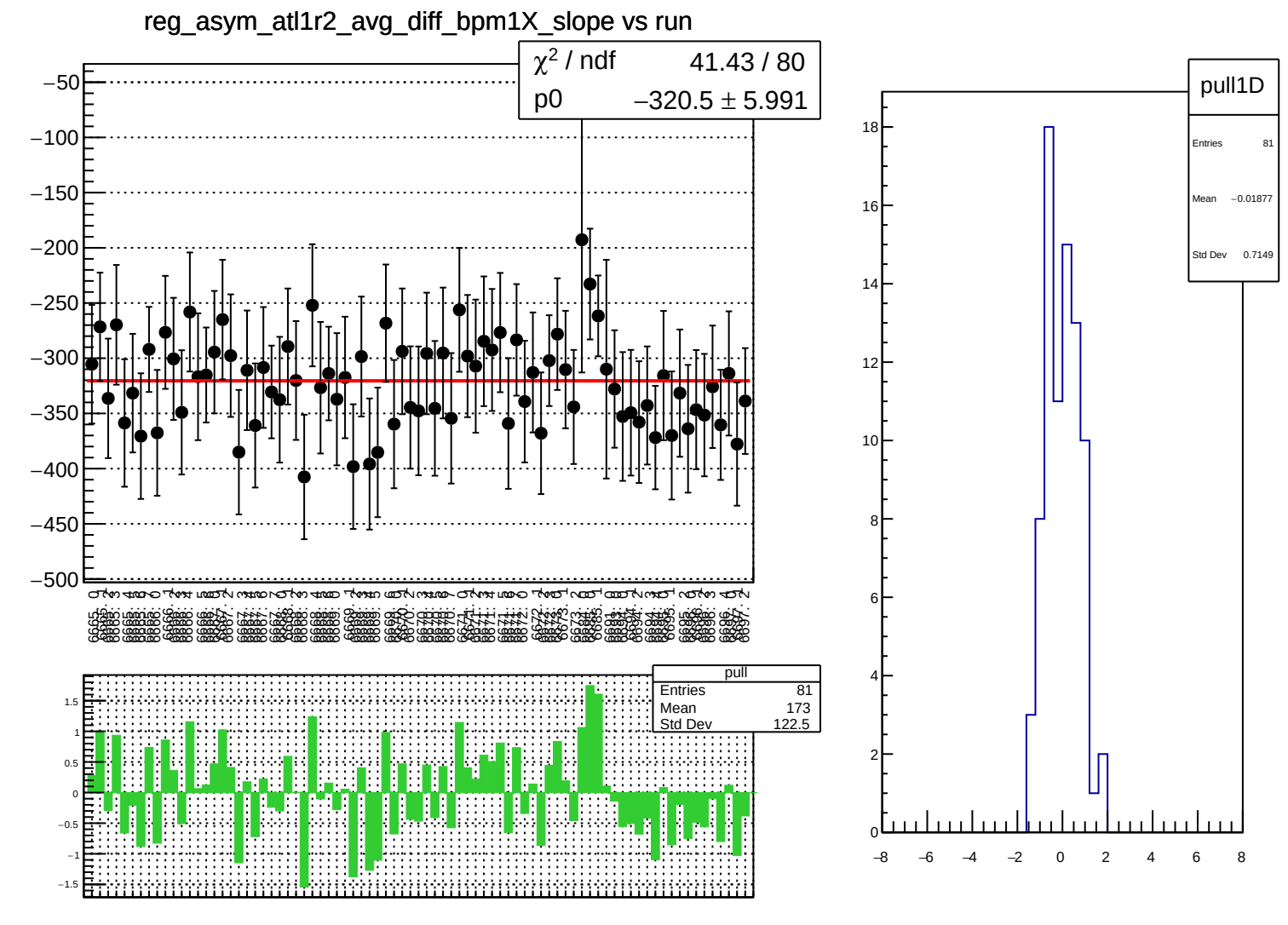

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 56.24 / 80
p0 24.24 ± 2.725
pull
Entries 81
Mean −82.95
Std Dev 124
pull1D
Entries 81
Mean −0.06451
Std Dev 0.8307

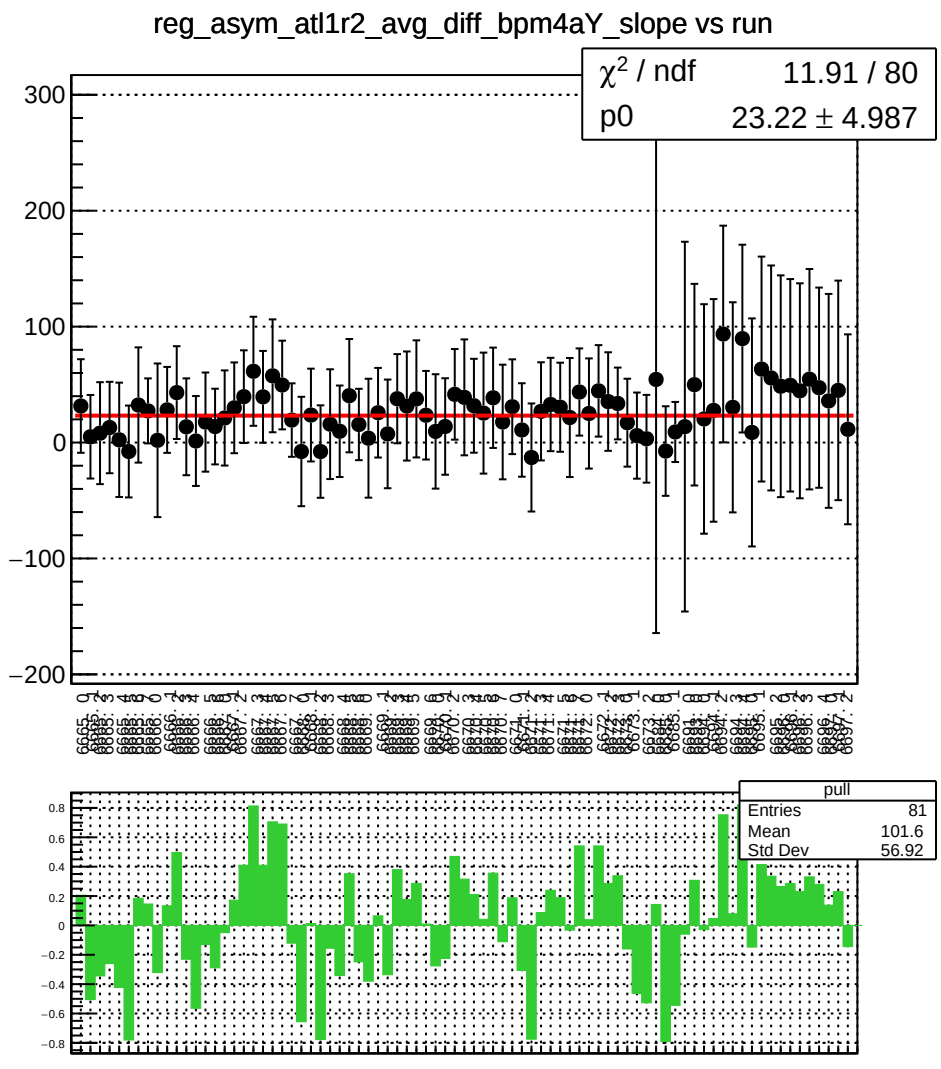

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 64.97 / 80
p0 −22.07 ± 2.575
pull
Entries 81
Mean −9.488
Std Dev 96.71

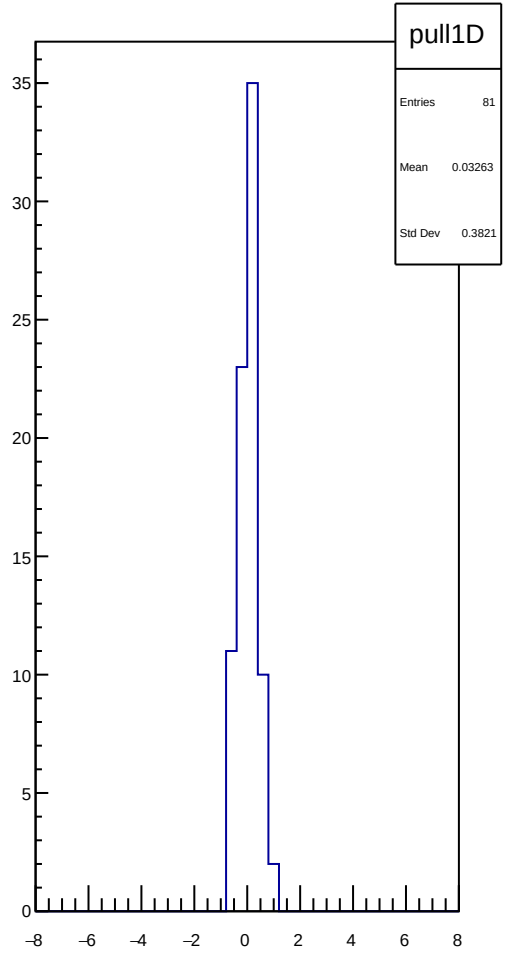

pull1D
Entries 81
Mean −0.0119
Std Dev 0.8955

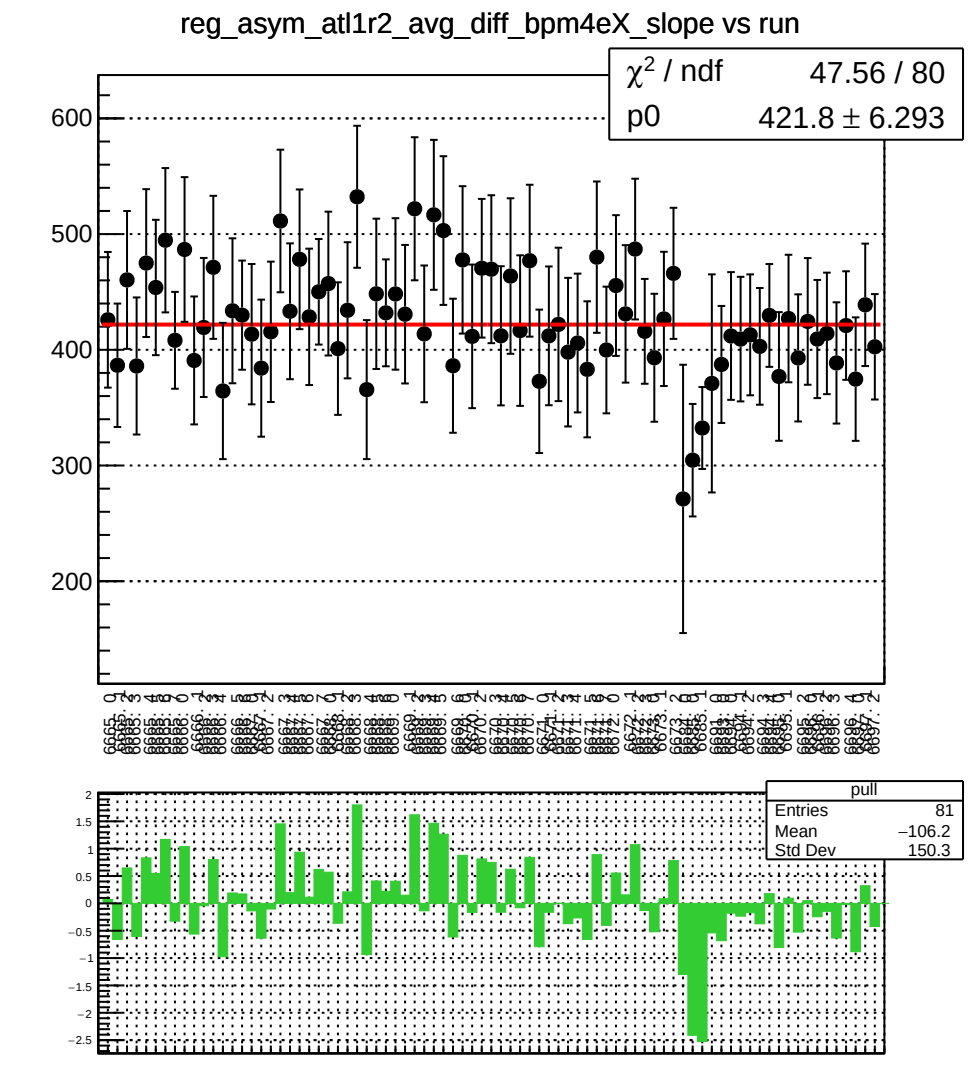

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 2439 / 80
p0 32.17 ± 0.1075
pull
Entries 81
Mean −122.8
Std Dev 168.3

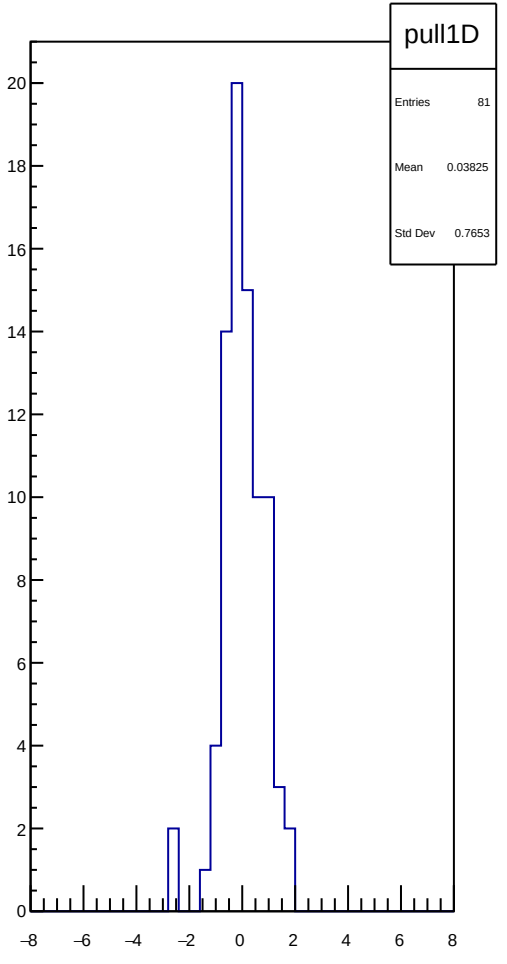

pull1D
Entries 81
Mean 2.751
Std Dev 3.286

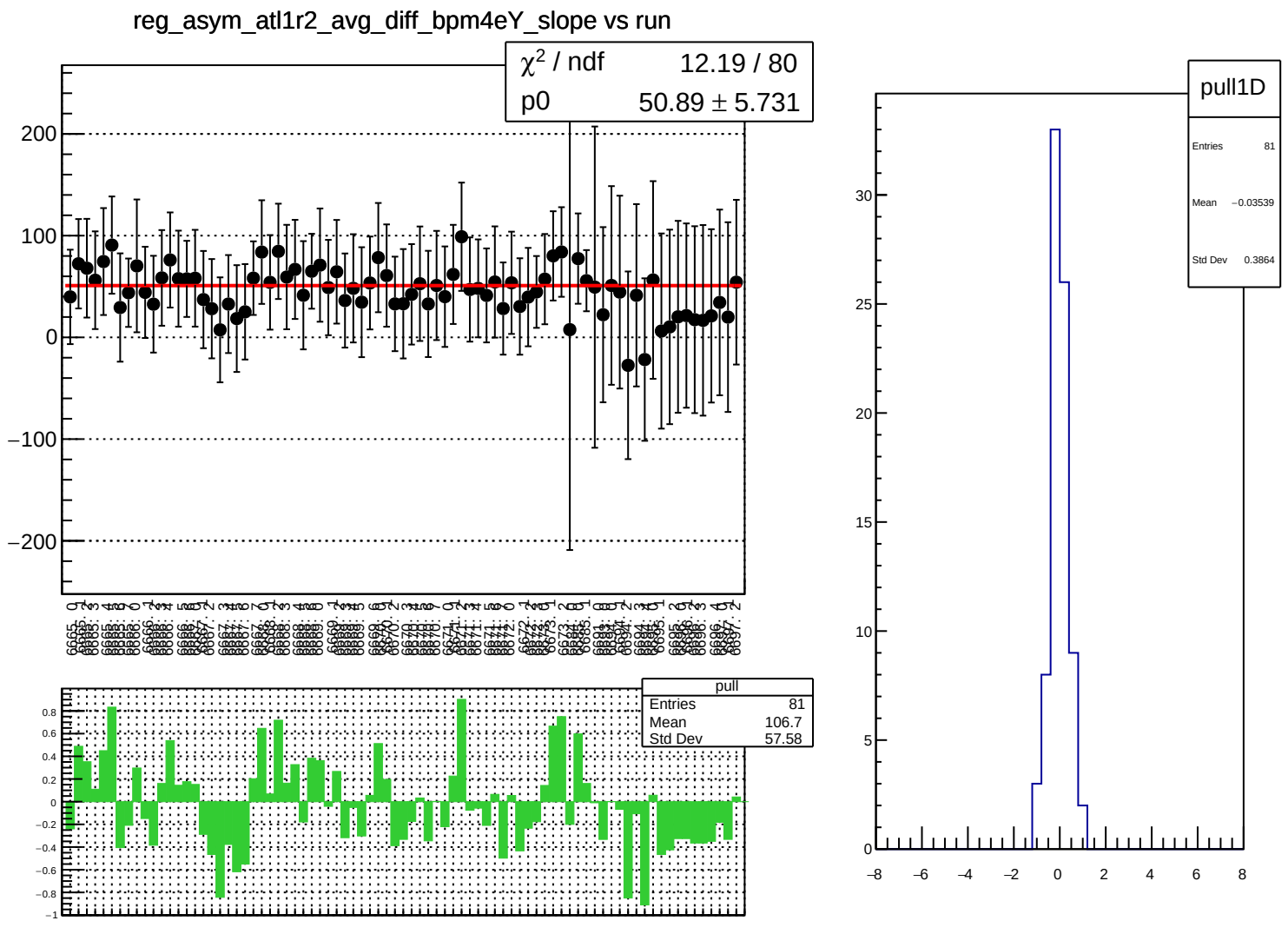

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 41.43 / 80
p0 −320.5 ± 5.991
pull
Entries 81
Mean 173
Std Dev 122.5
pull1D
Entries 81
Mean −0.01877
Std Dev 0.7149

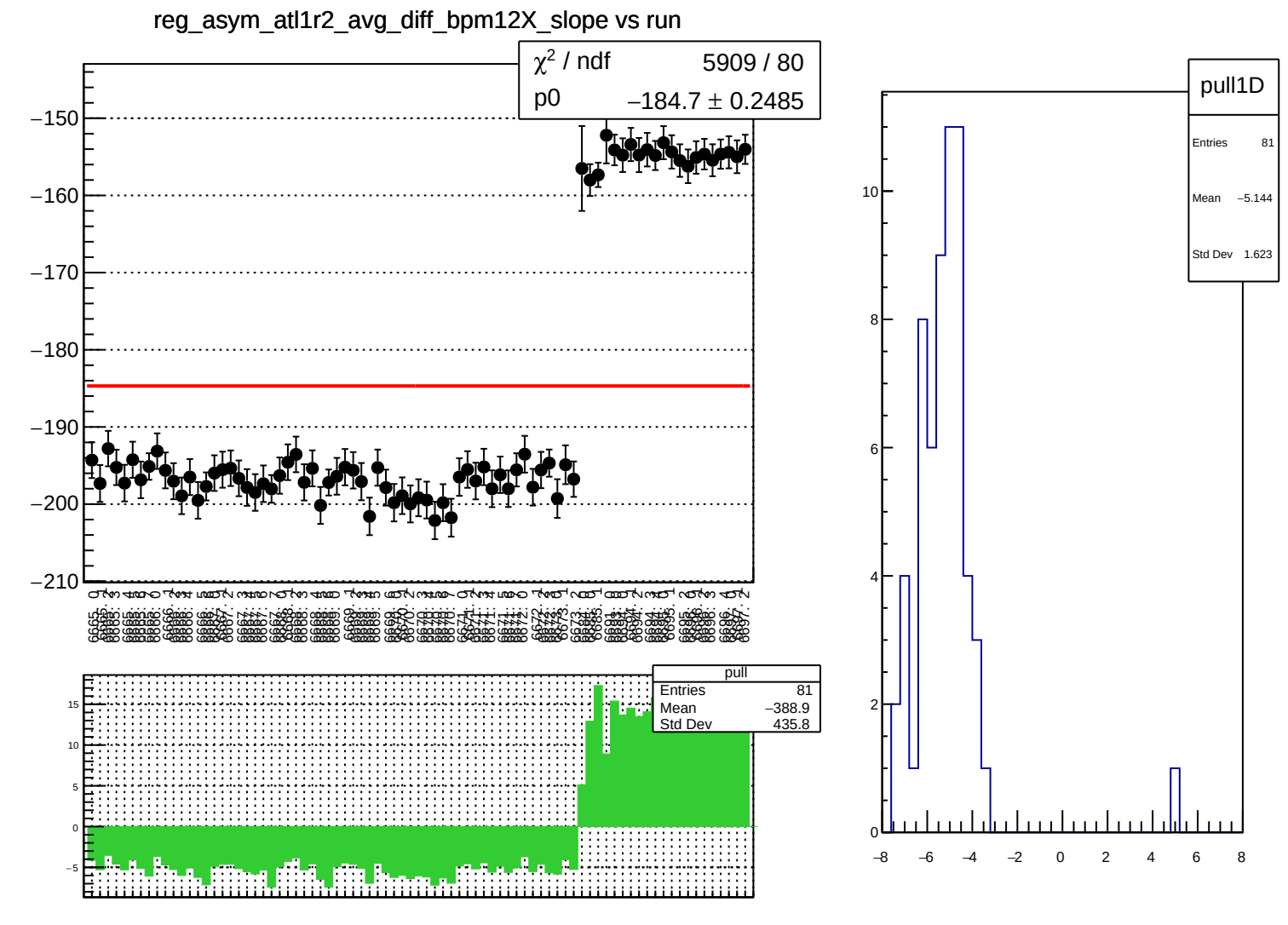

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 11.91 / 80
p0 23.22 ± 4.987
pull
Entries 81
Mean 101.6
Std Dev 56.92

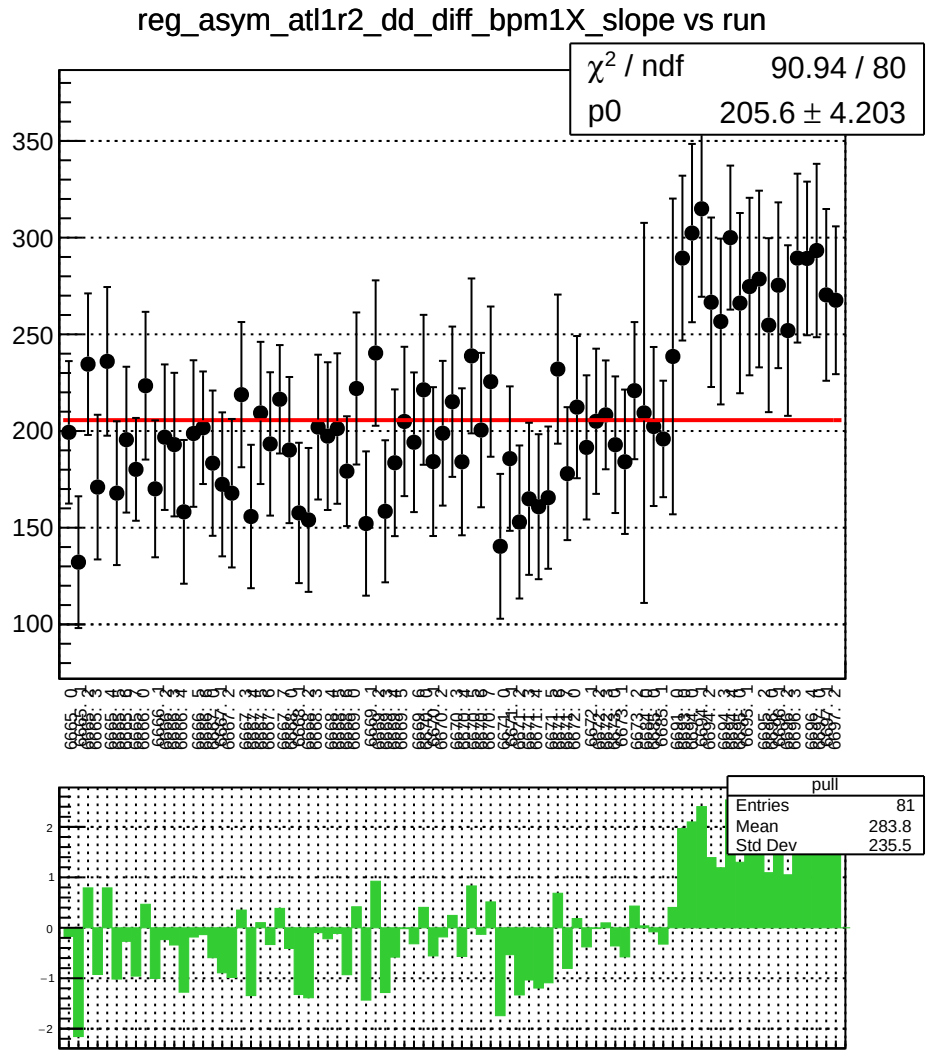

pull1D
Entries 81
Mean 0.03263
Std Dev 0.3821

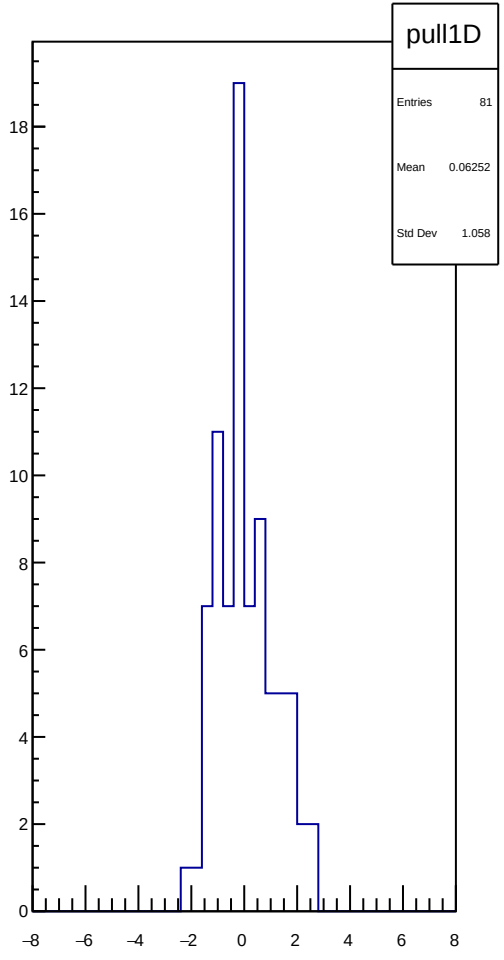

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 47.56 / 80
p0 421.8 ± 6.293
pull
Entries 81
Mean −106.2
Std Dev 150.3

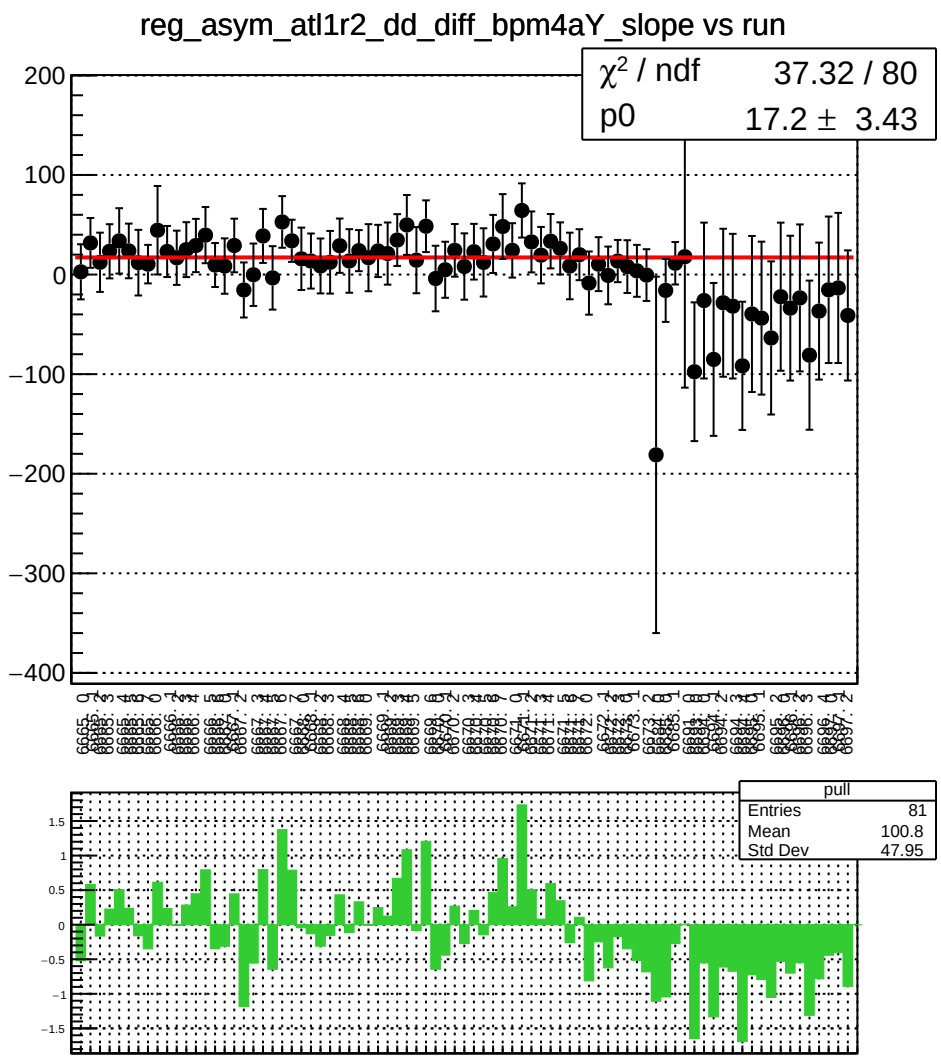

pull1D
Entries 81
Mean 0.03825
Std Dev 0.7653

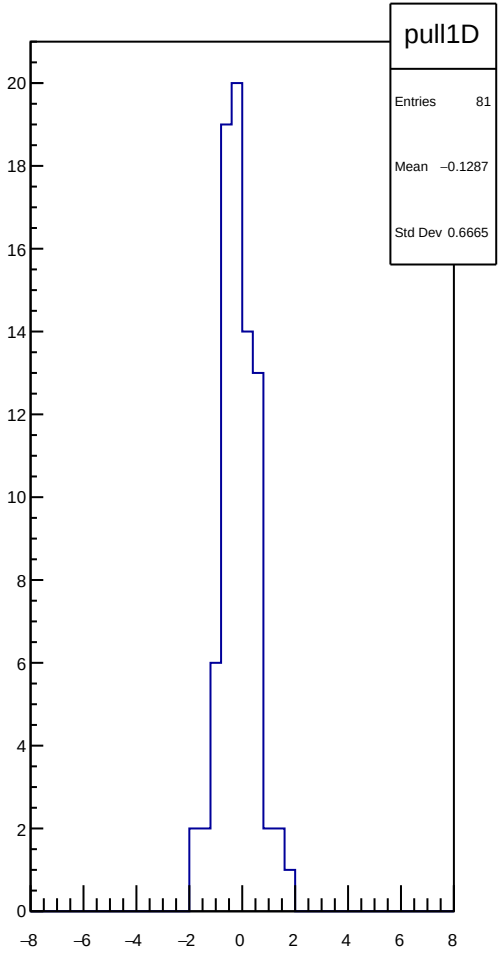

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 12.19 / 80
p0 50.89 ± 5.731
200
100
0
−100
−200
pull
Entries 81
Mean 106.7
Std Dev 57.58
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 81
Mean −0.03539
Std Dev 0.3864
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

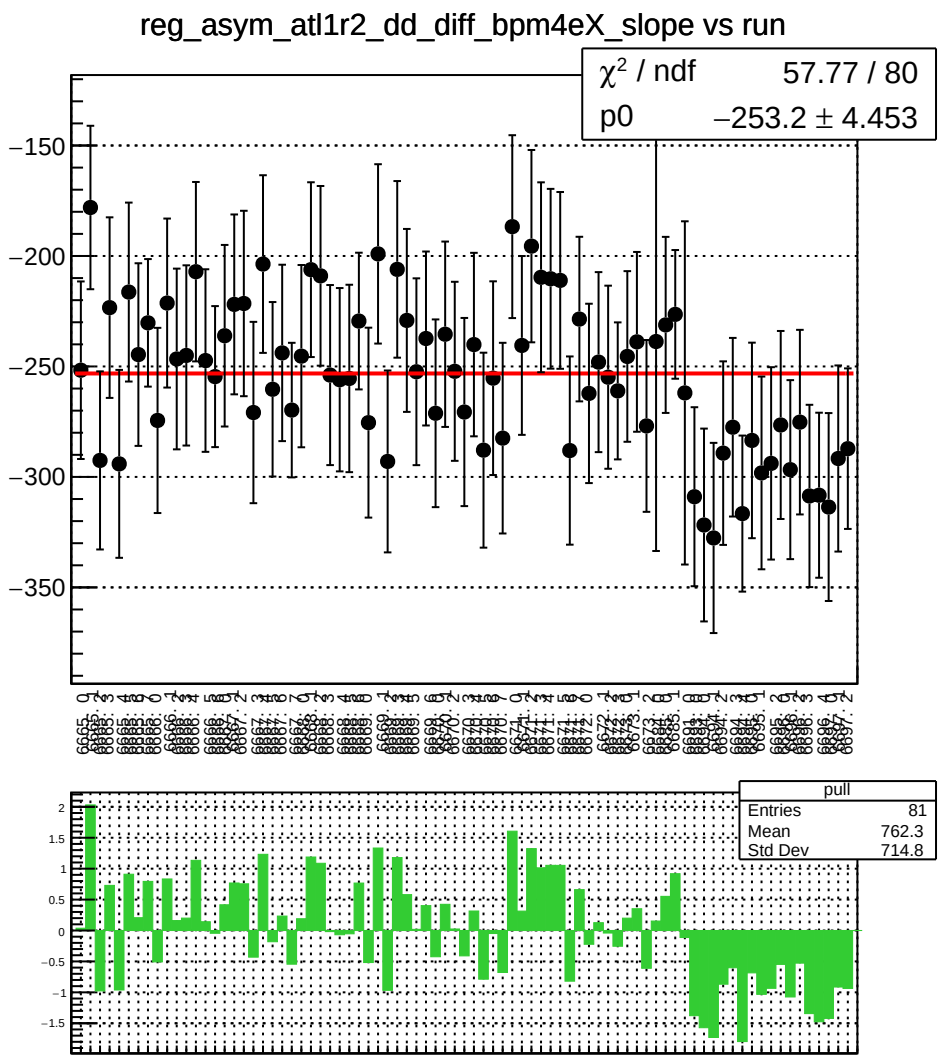

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 5909 / 80
p0 −184.7 ± 0.2485
pull
Entries 81
Mean −388.9
Std Dev 435.8
pull1D
Entries 81
Mean −5.144
Std Dev 1.623

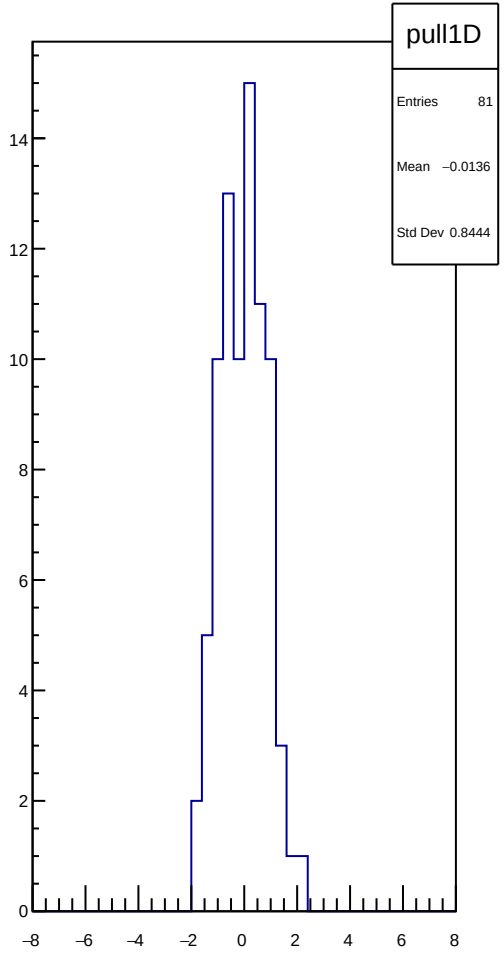

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 90.94 / 80
p0 205.6 ± 4.203
350
300
250
200
150
100
pull
Entries 81
Mean 283.8
Std Dev 235.5
2
1
0
−1
−2

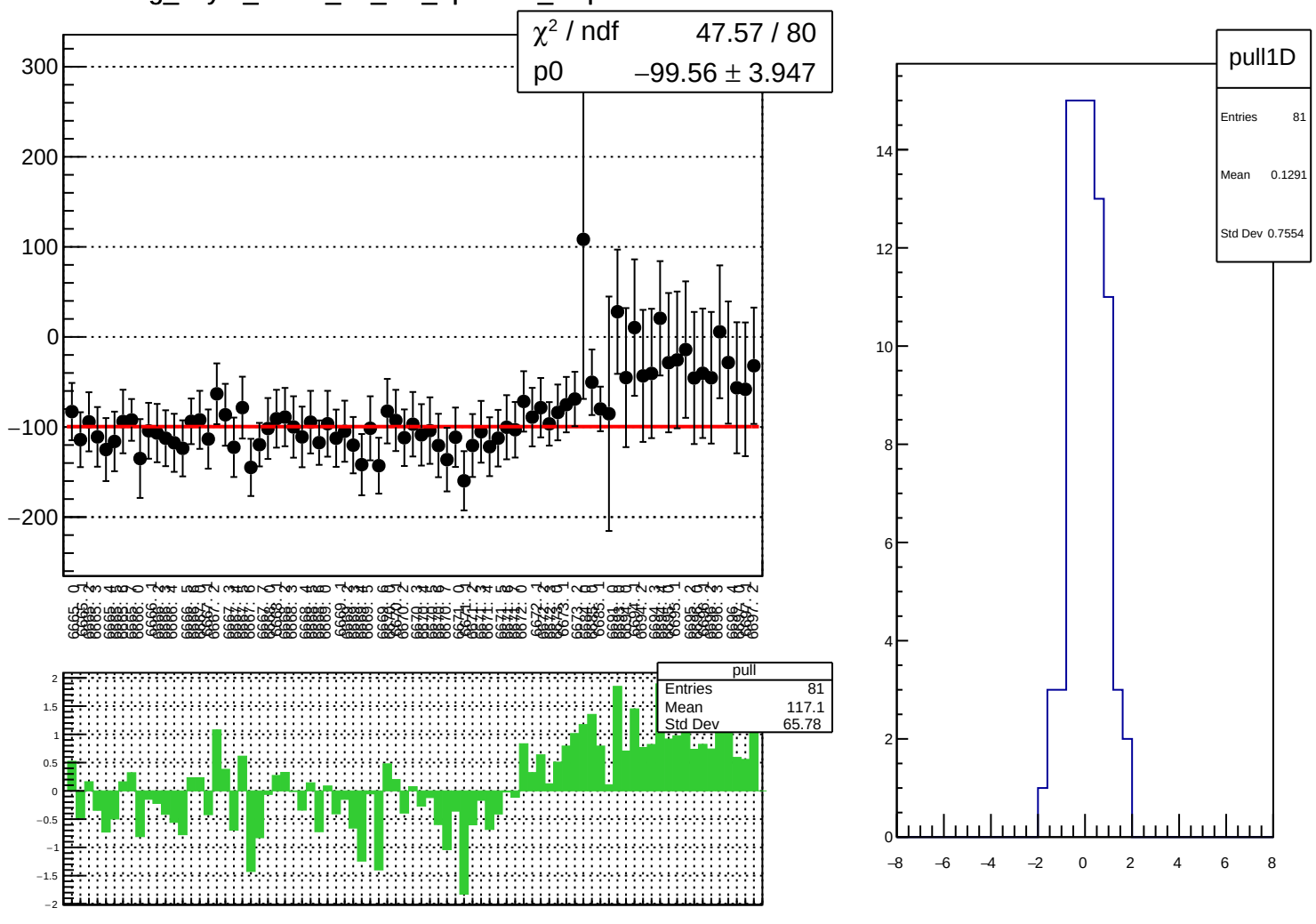

pull1D
Entries 81
Mean 0.06252
Std Dev 1.058
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

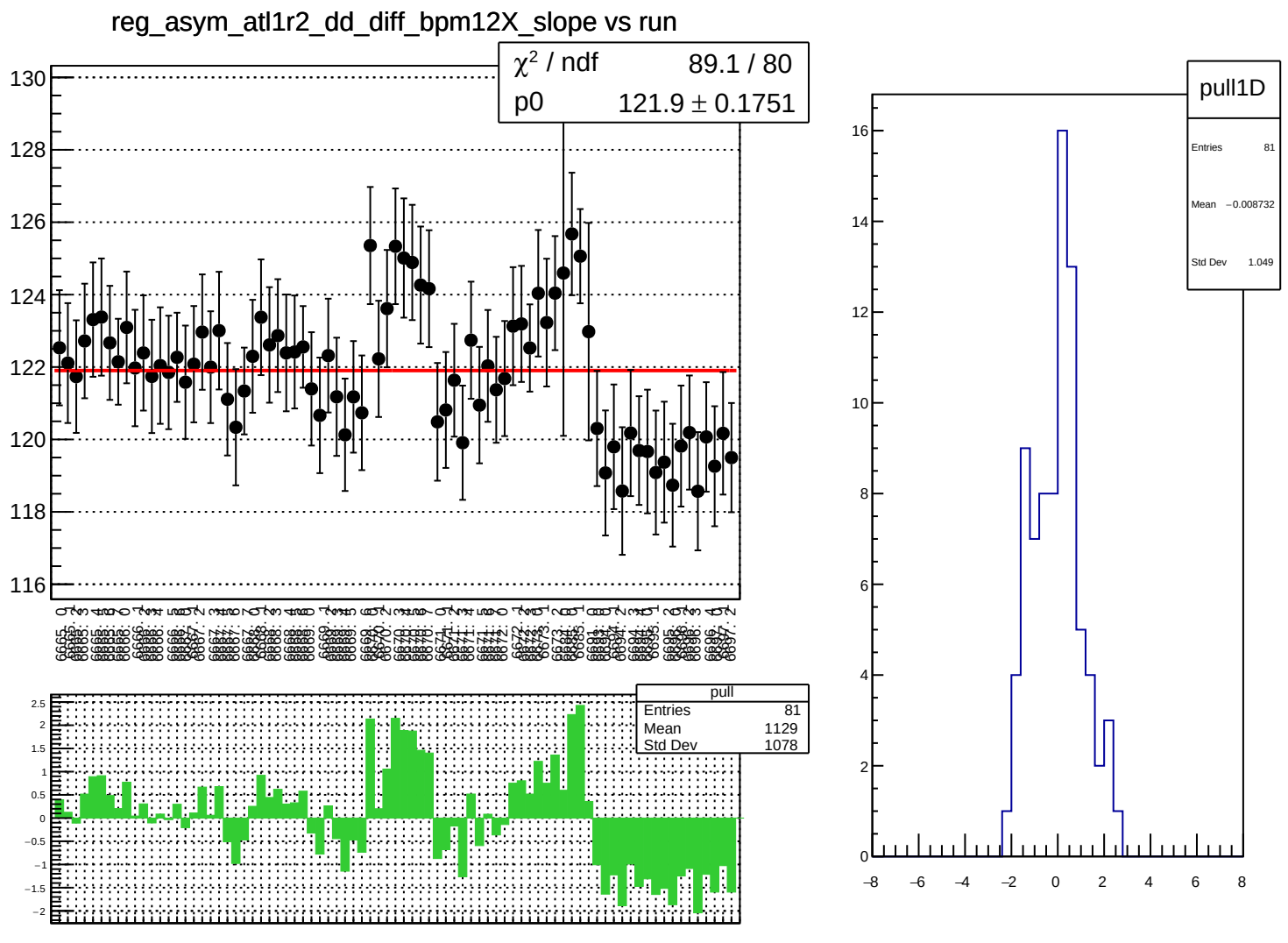

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 37.32 / 80
p0 17.2 ± 3.43
pull
Entries 81
Mean 100.8
Std Dev 47.95

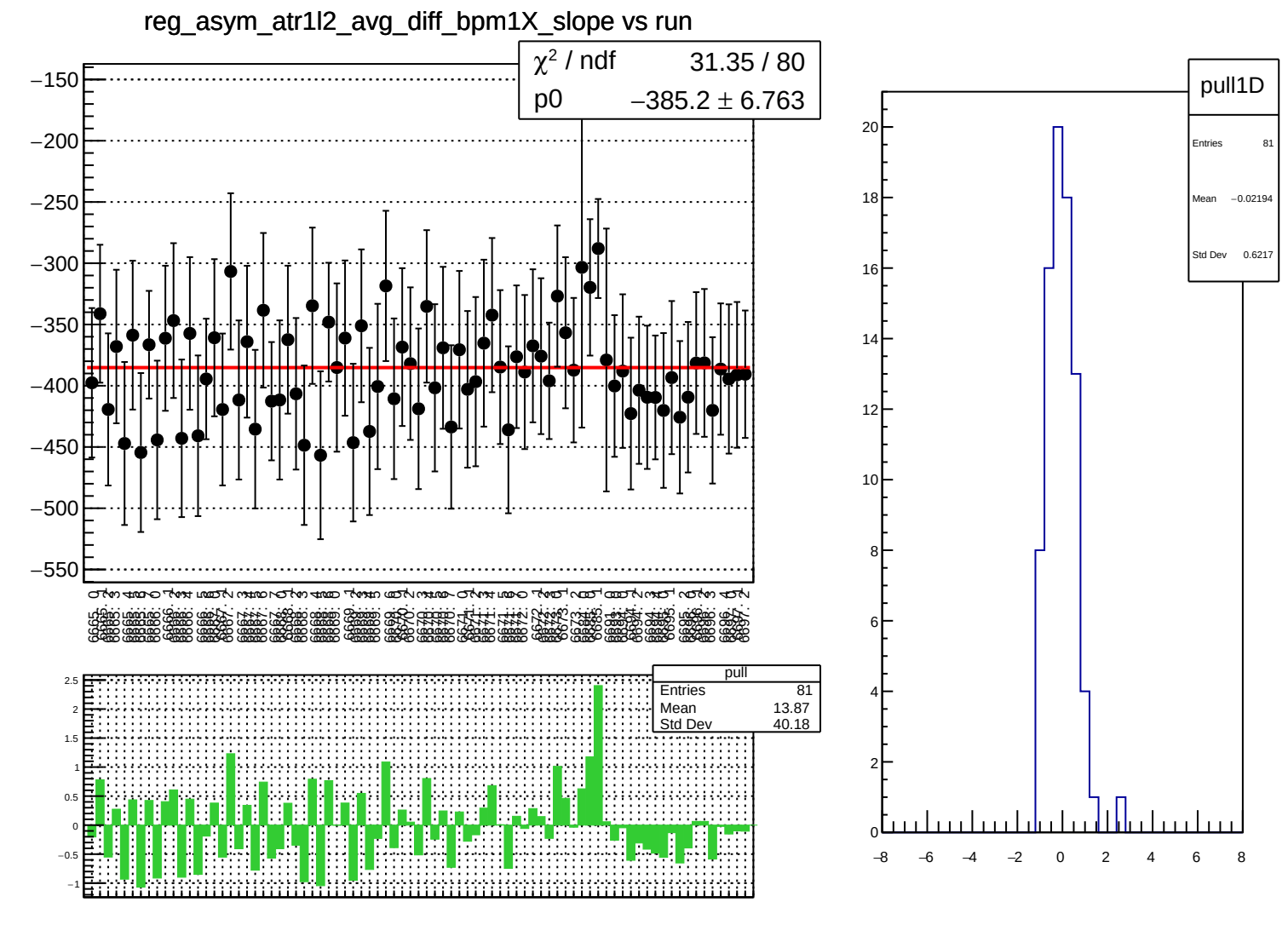

pull1D
Entries 81
Mean −0.1287
Std Dev 0.6665

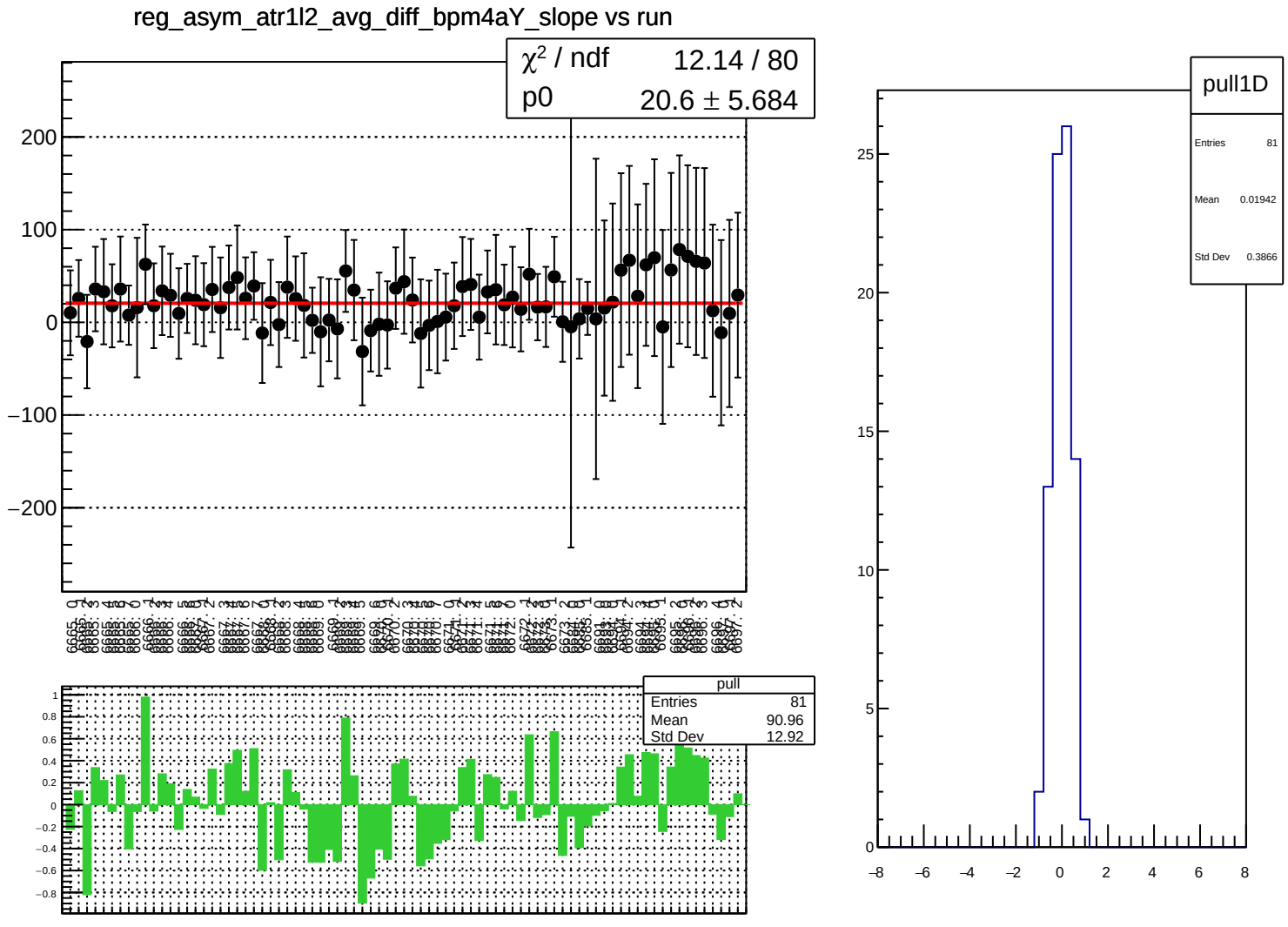

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.77 / 80
p0 −253.2 ± 4.453
−150
−200
−250
−300
−350
pull
Entries 81
Mean 762.3
Std Dev 714.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

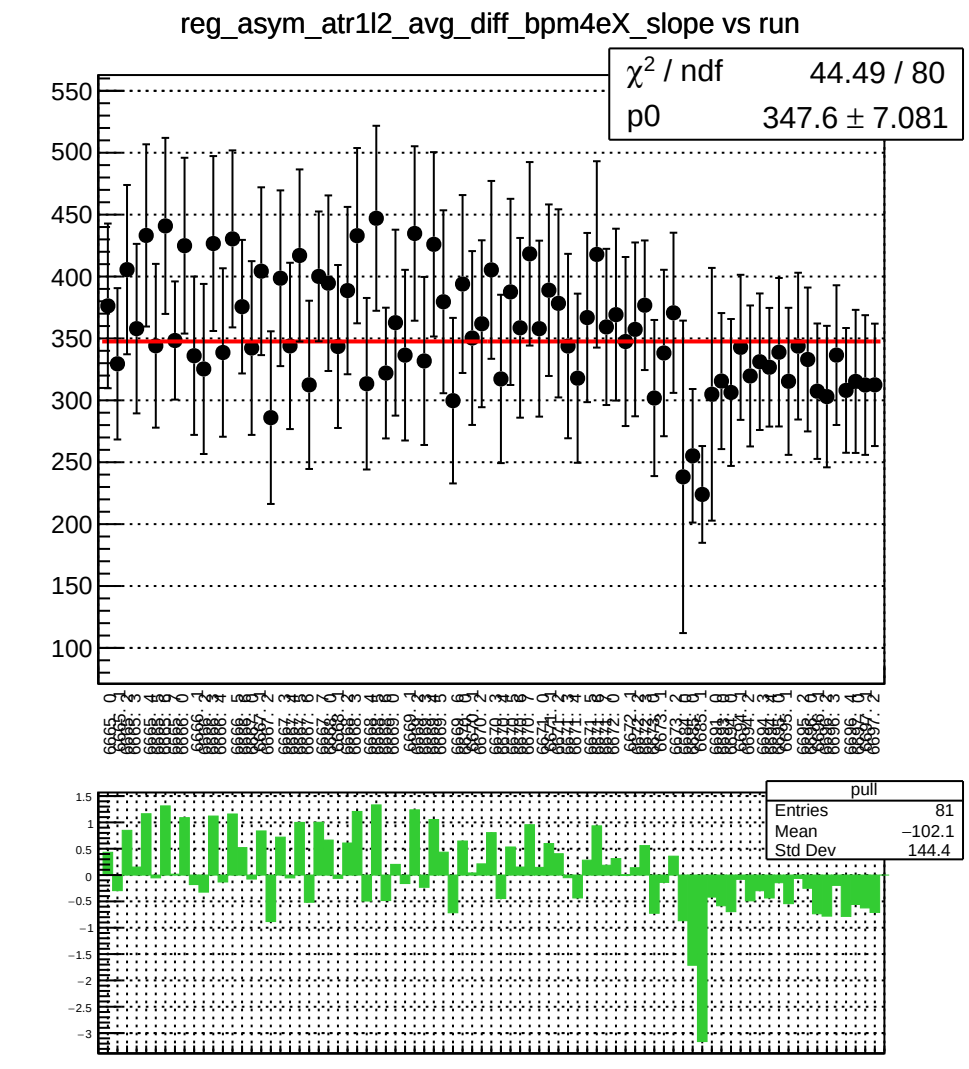

pull1D
Entries 81
Mean −0.0136
Std Dev 0.8444
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

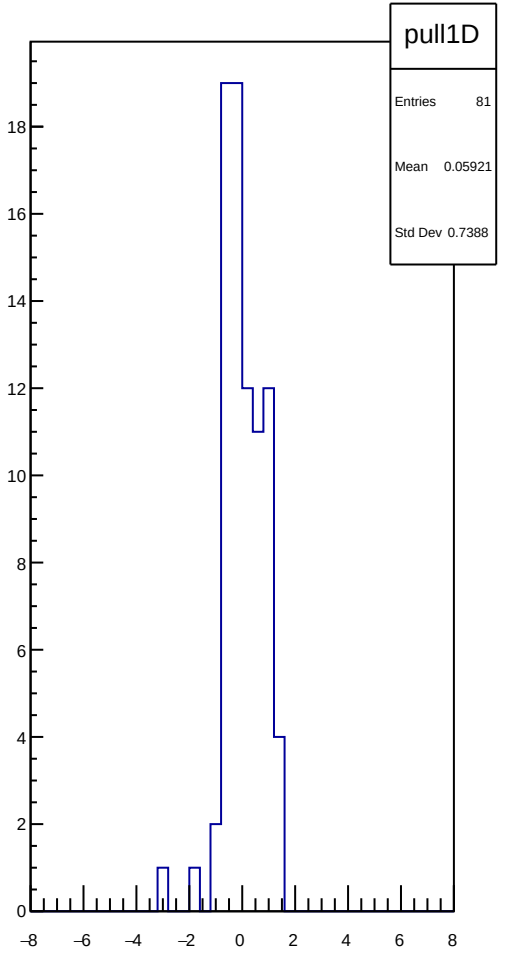

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.57 / 80
p0 −99.56 ± 3.947
300
200
100
0
−100
−200
pull
Entries 81
Mean 117.1
Std Dev 65.78
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 81
Mean 0.1291
Std Dev 0.7554
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

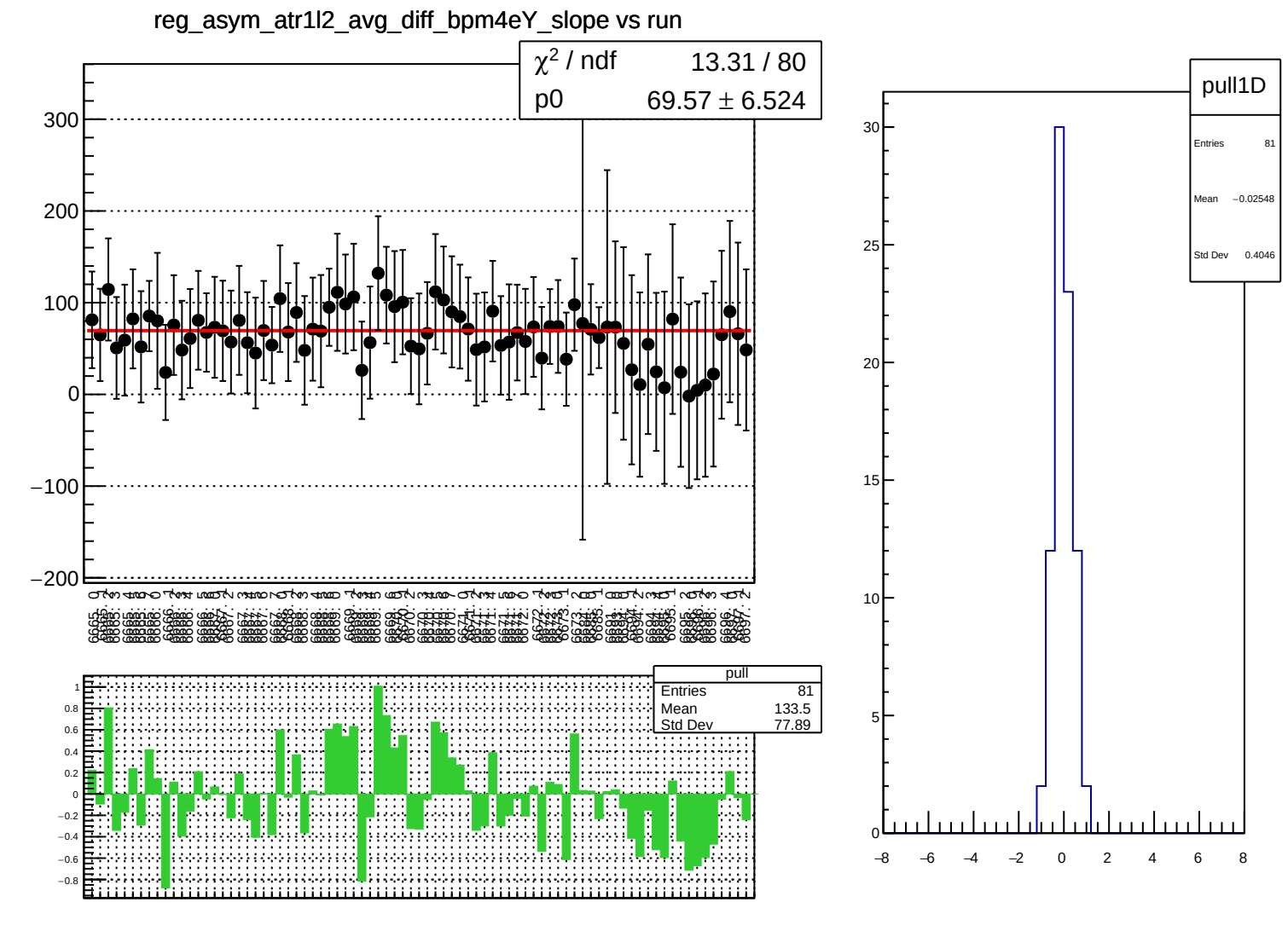

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 89.1 / 80
p0 121.9 ± 0.1751
pull
Entries 81
Mean 1129
Std Dev 1078
pull1D
Entries 81
Mean −0.008732
Std Dev 1.049

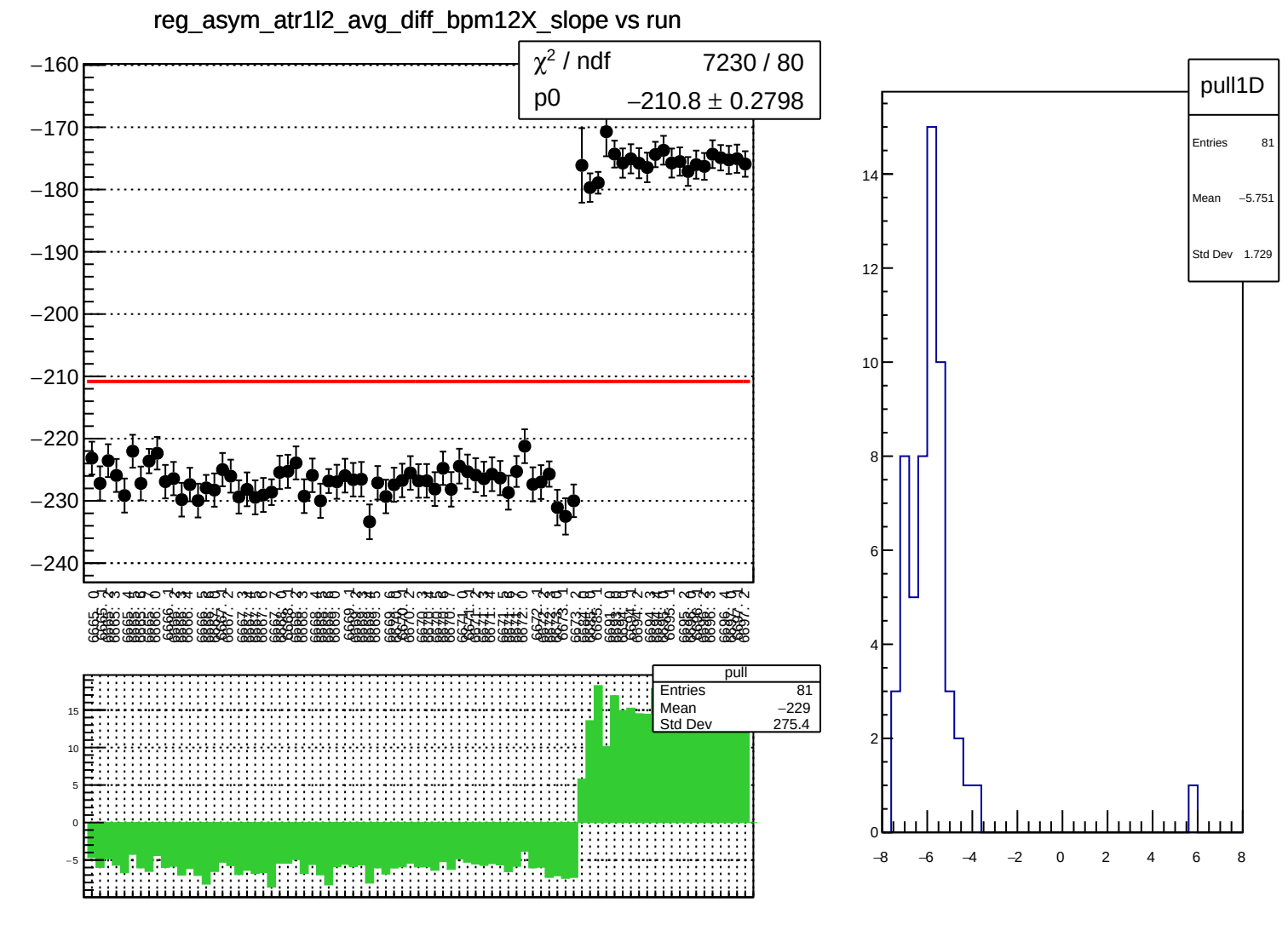

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 31.35 / 80
p0 −385.2 ± 6.763
pull
Entries 81
Mean 13.87
Std Dev 40.18
pull1D
Entries 81
Mean −0.02194
Std Dev 0.6217

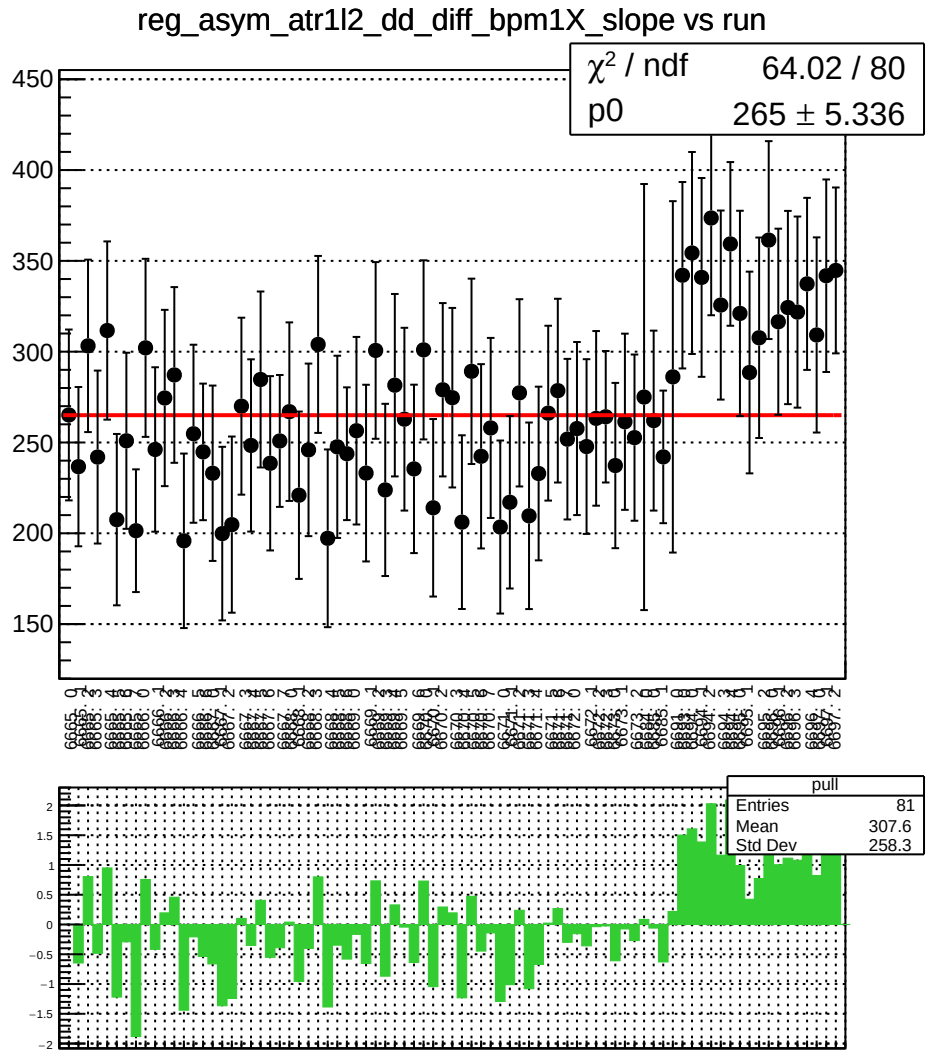

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.14 / 80
p0 20.6 ± 5.684
200
100
0
−100
−200
pull
Entries 81
Mean 90.96
Std Dev 12.92
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 81
Mean 0.01942
Std Dev 0.3866
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

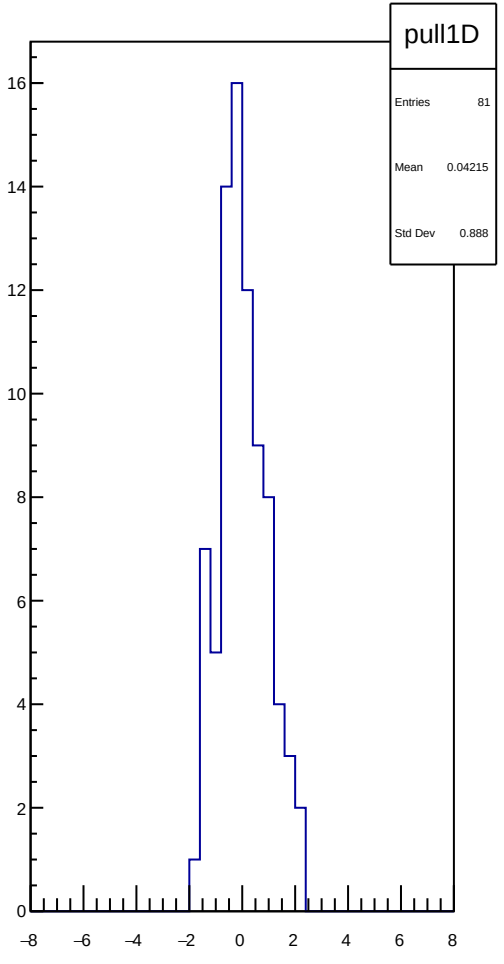

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 44.49 / 80
p0 347.6 ± 7.081
pull
Entries 81
Mean −102.1
Std Dev 144.4

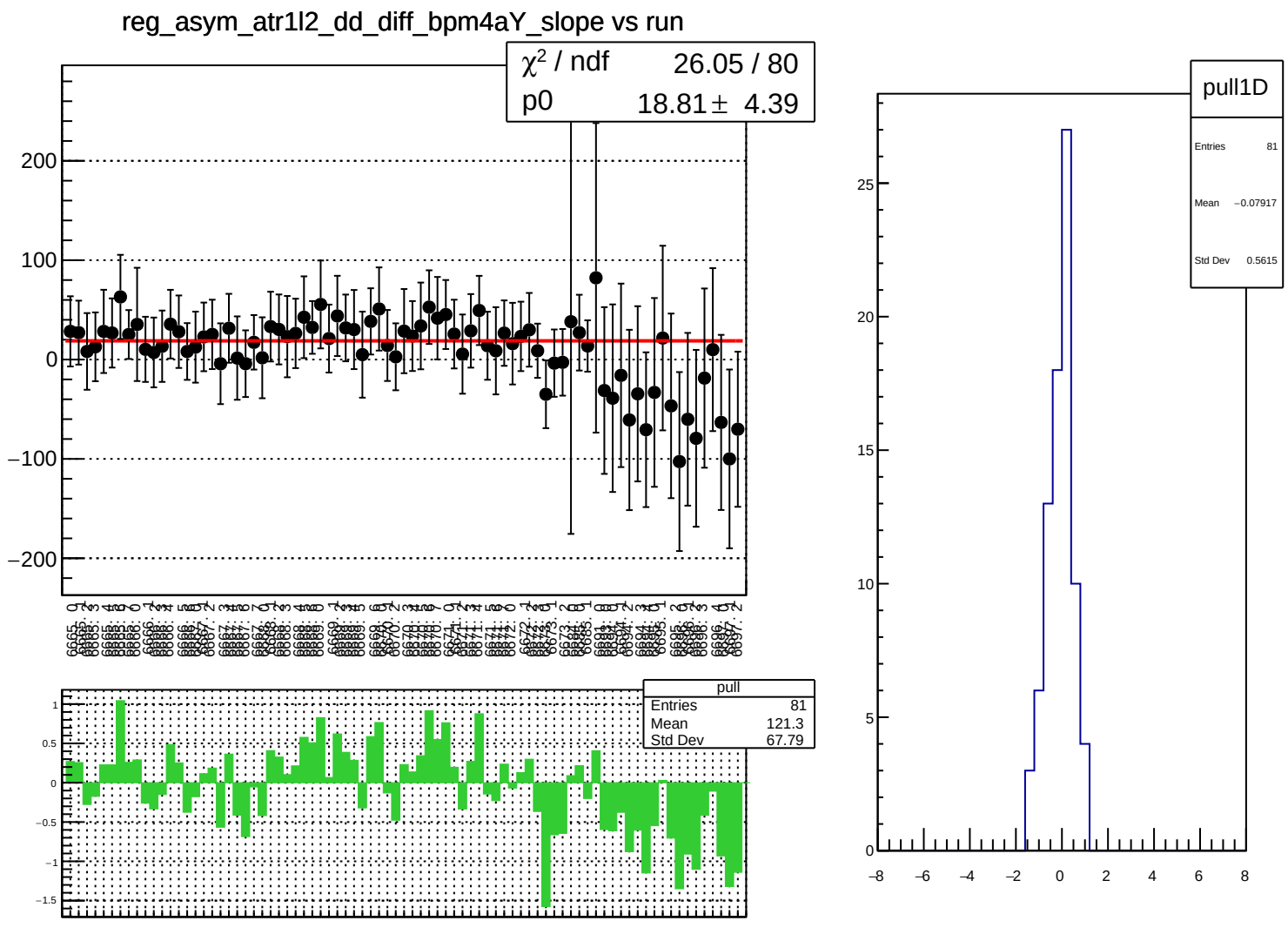

pull1D
Entries 81
Mean 0.05921
Std Dev 0.7388

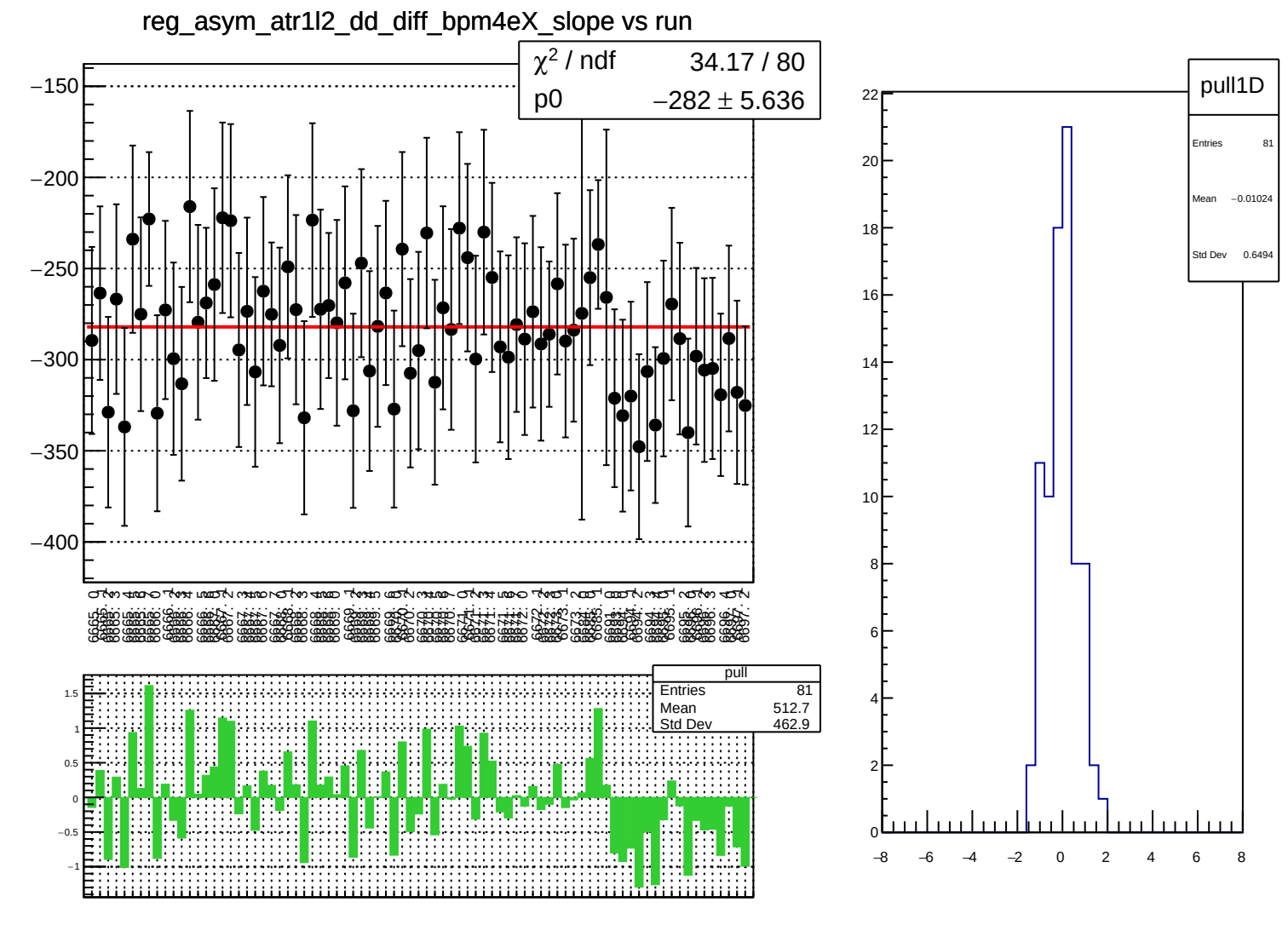

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 13.31 / 80
p0 69.57 ± 6.524
pull
Entries 81
Mean 133.5
Std Dev 77.89
pull1D
Entries 81
Mean −0.02548
Std Dev 0.4046

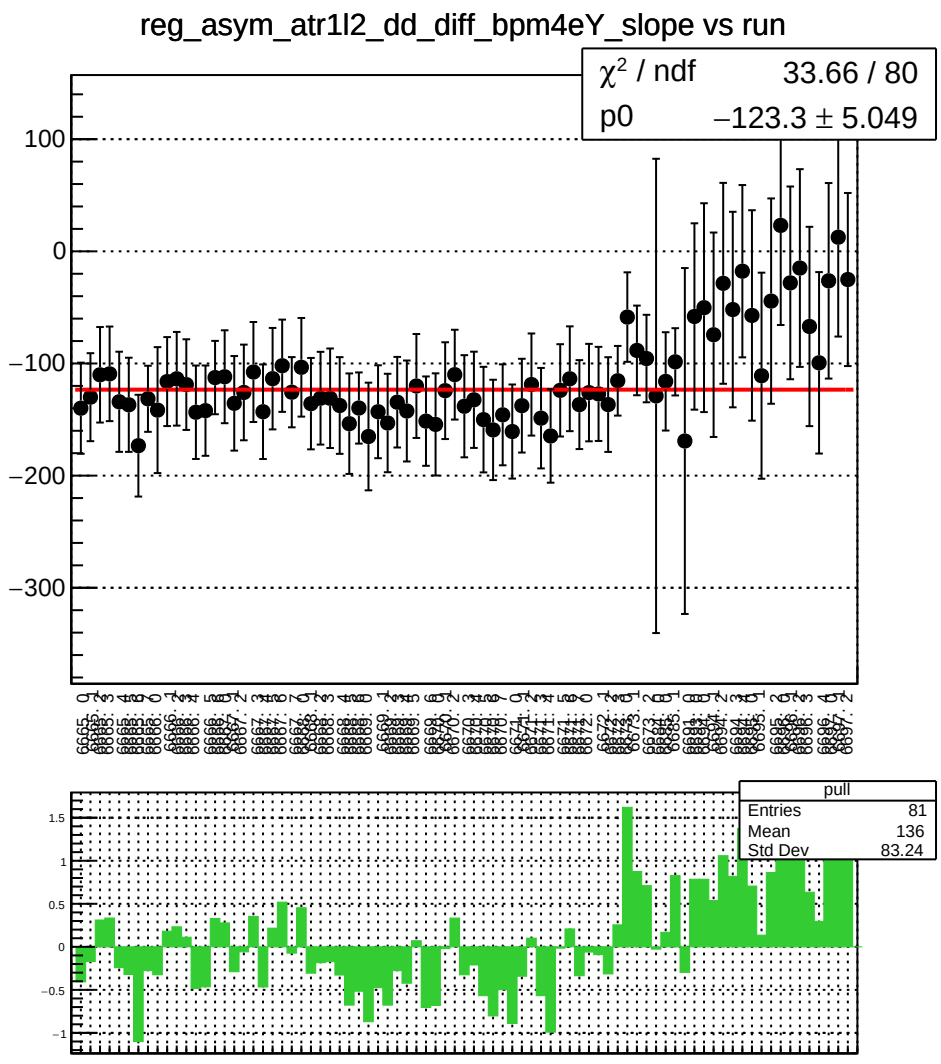

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 7230 / 80
p0 −210.8 ± 0.2798
pull
Entries 81
Mean −229
Std Dev 275.4
pull1D
Entries 81
Mean −5.751
Std Dev 1.729

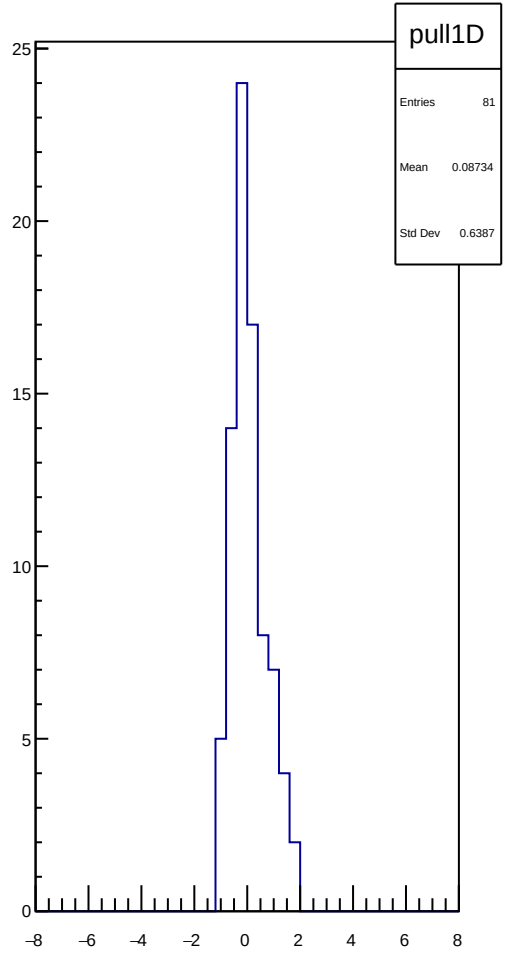

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 64.02 / 80
p0 265 ± 5.336
pull
Entries 81
Mean 307.6
Std Dev 258.3

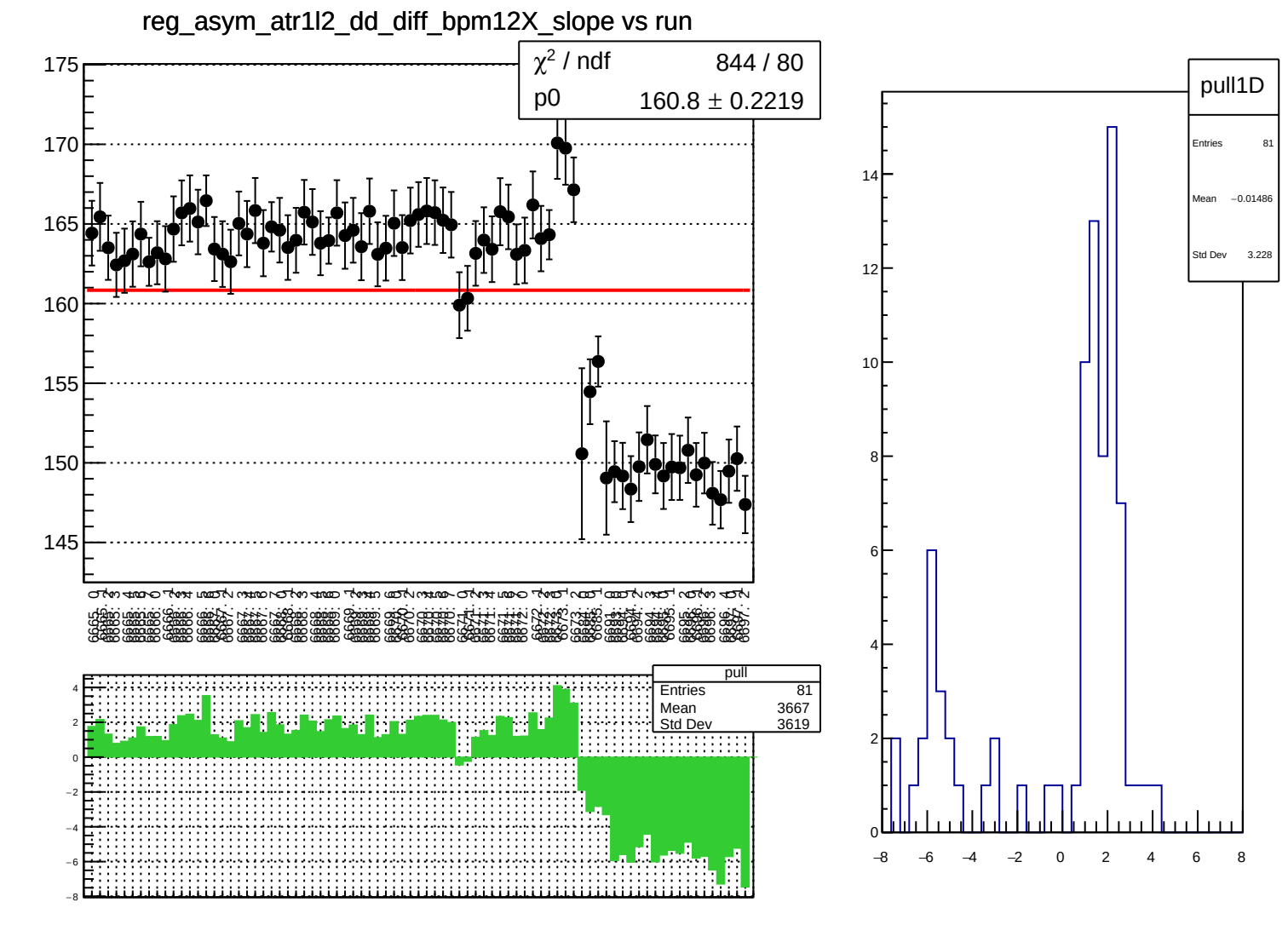

pull1D
Entries 81
Mean 0.04215
Std Dev 0.888

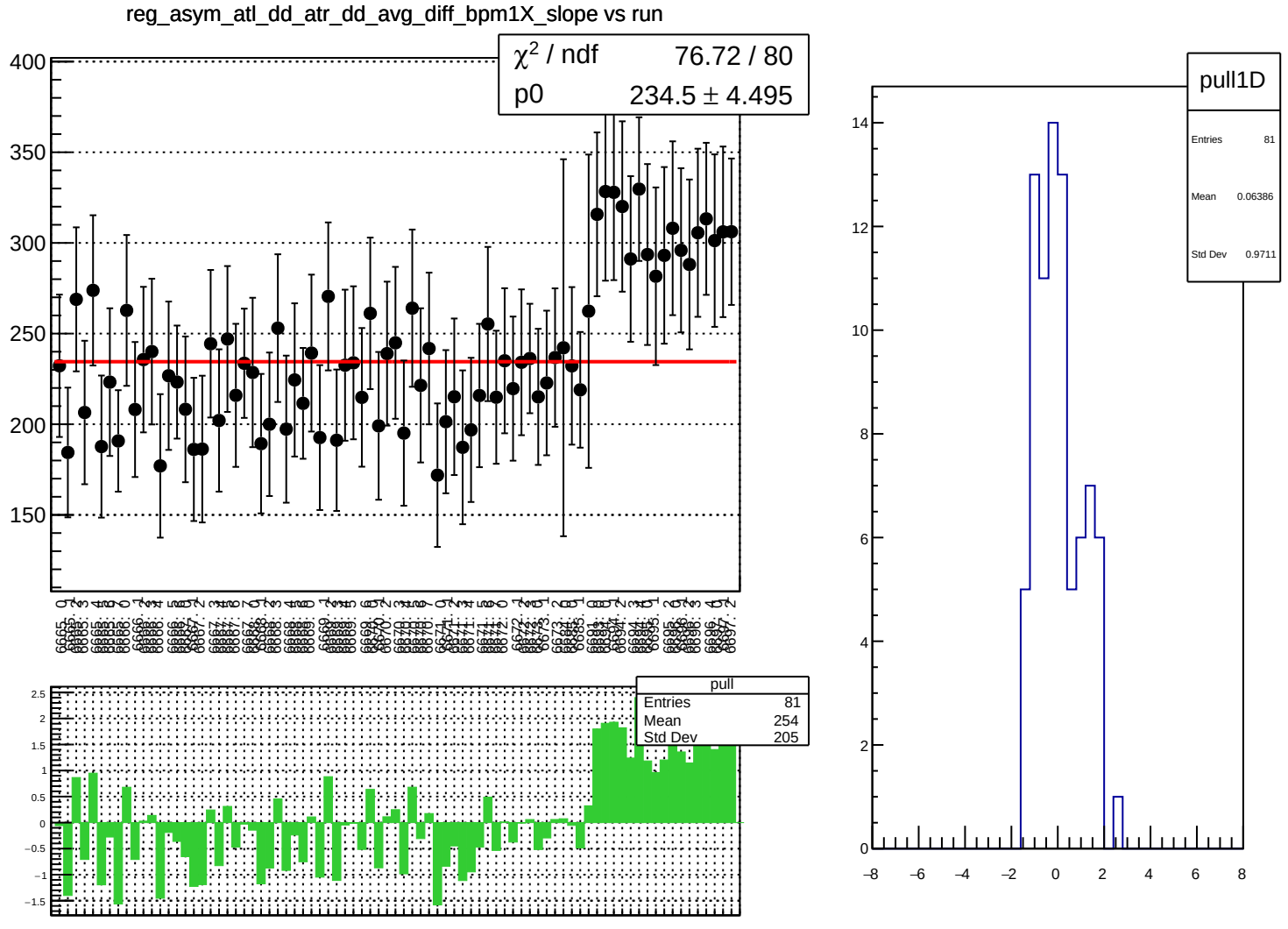

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 26.05 / 80
p0 18.81 ± 4.39
200
100
0
−100
−200
pull
Entries 81
Mean 121.3
Std Dev 67.79
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.07917
Std Dev 0.5615
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

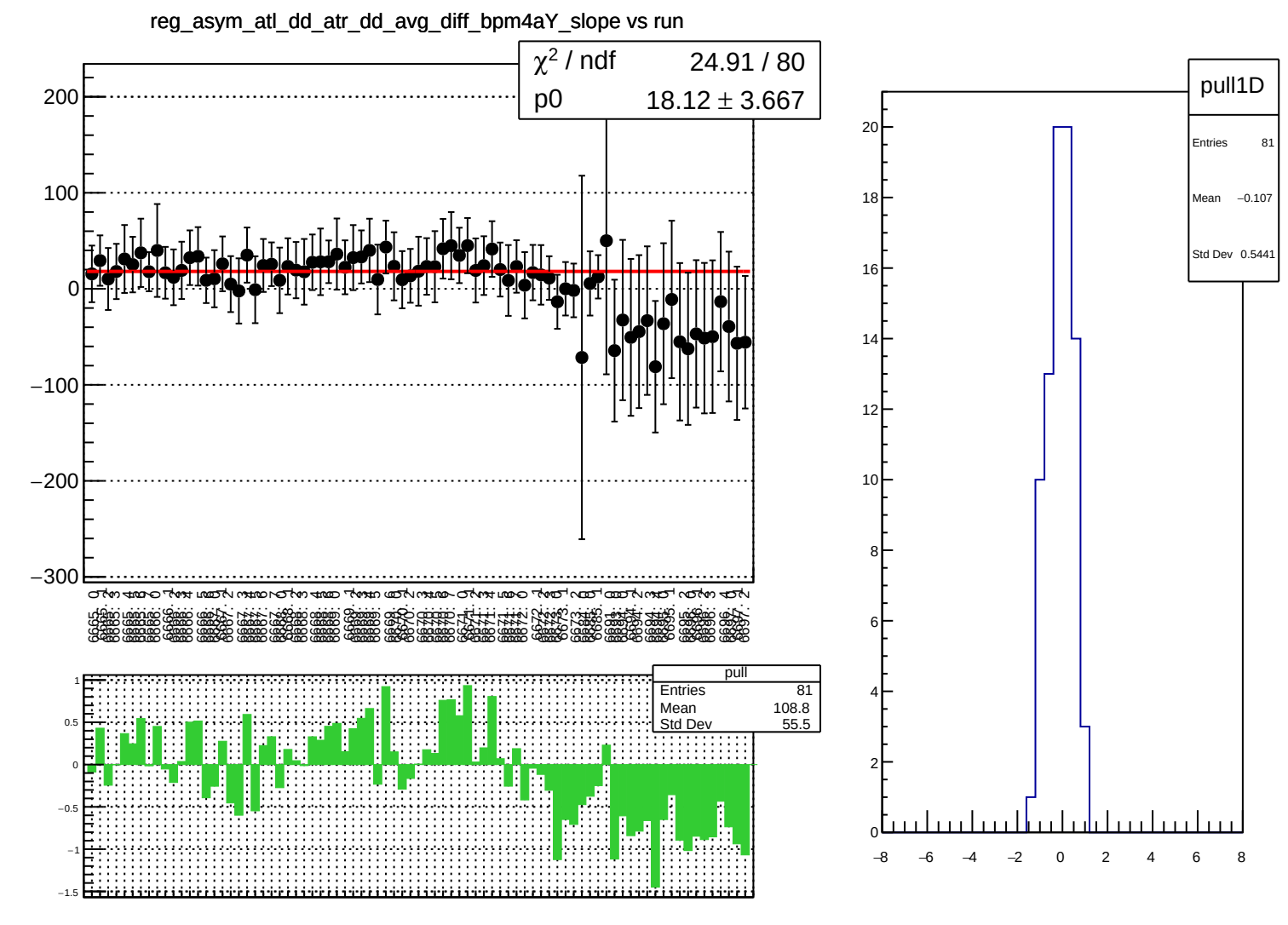

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.17 / 80
p0 −282 ± 5.636
pull
Entries 81
Mean 512.7
Std Dev 462.9
pull1D
Entries 81
Mean −0.01024
Std Dev 0.6494

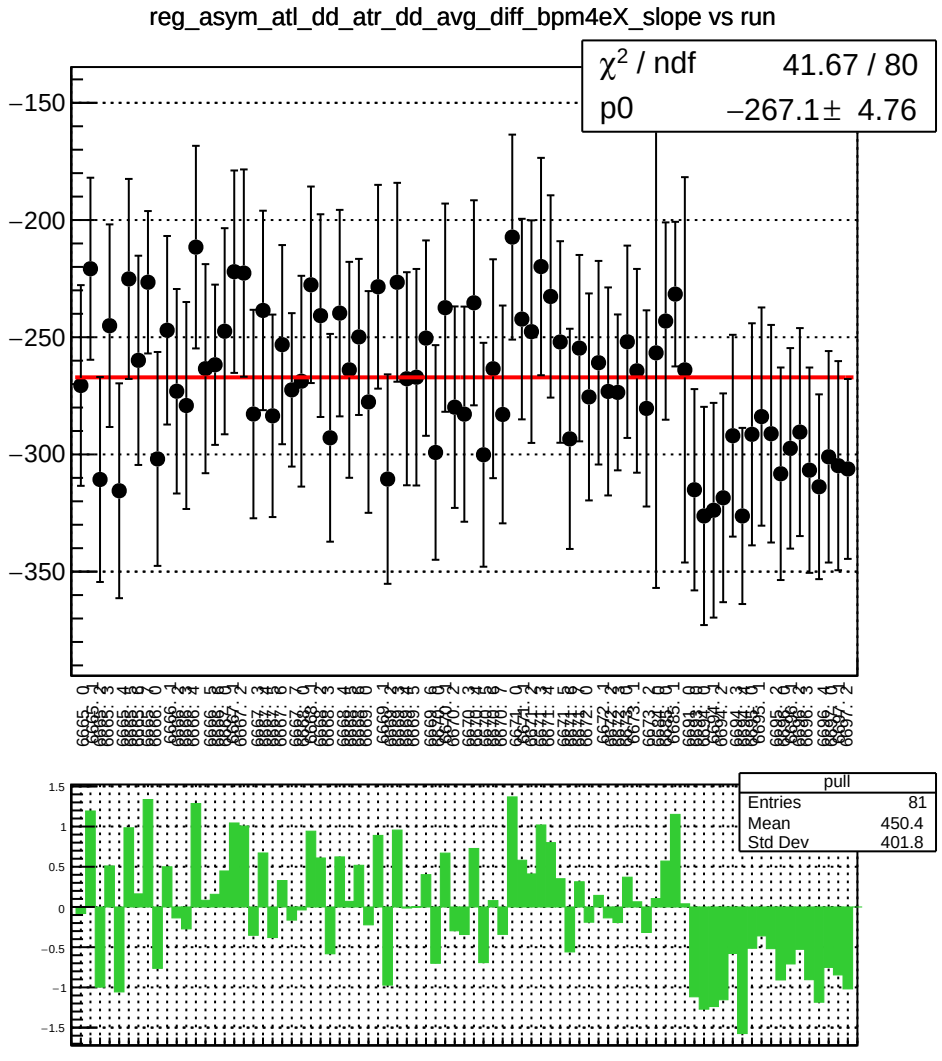

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 33.66 / 80
p0 −123.3 ± 5.049
100
0
−100
−200
−300
pull
Entries 81
Mean 136
Std Dev 83.24
1.5
1
0.5
0
−0.5
−1

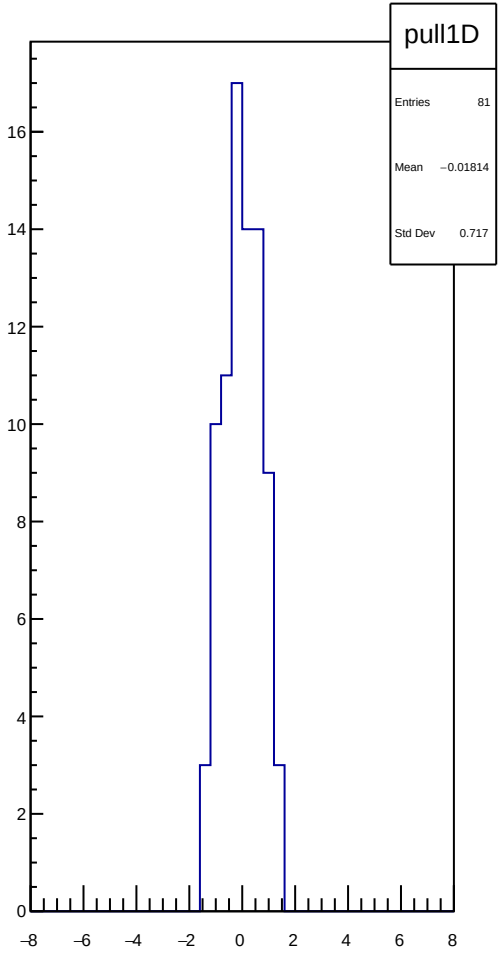

pull1D
Entries 81
Mean 0.08734
Std Dev 0.6387
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

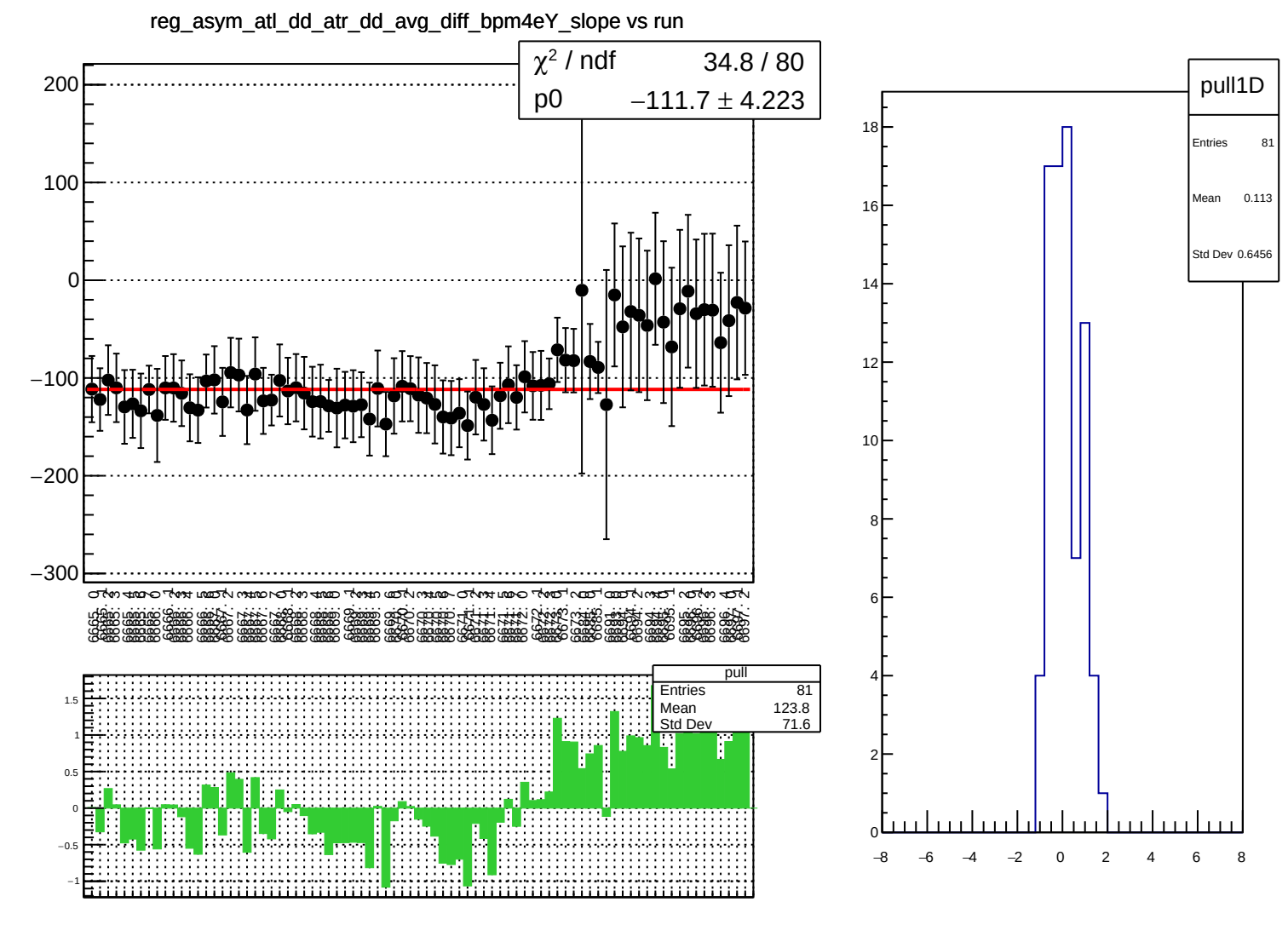

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 844 / 80
p0 160.8 ± 0.2219
pull
Entries 81
Mean 3667
Std Dev 3619
pull1D
Entries 81
Mean −0.01486
Std Dev 3.228

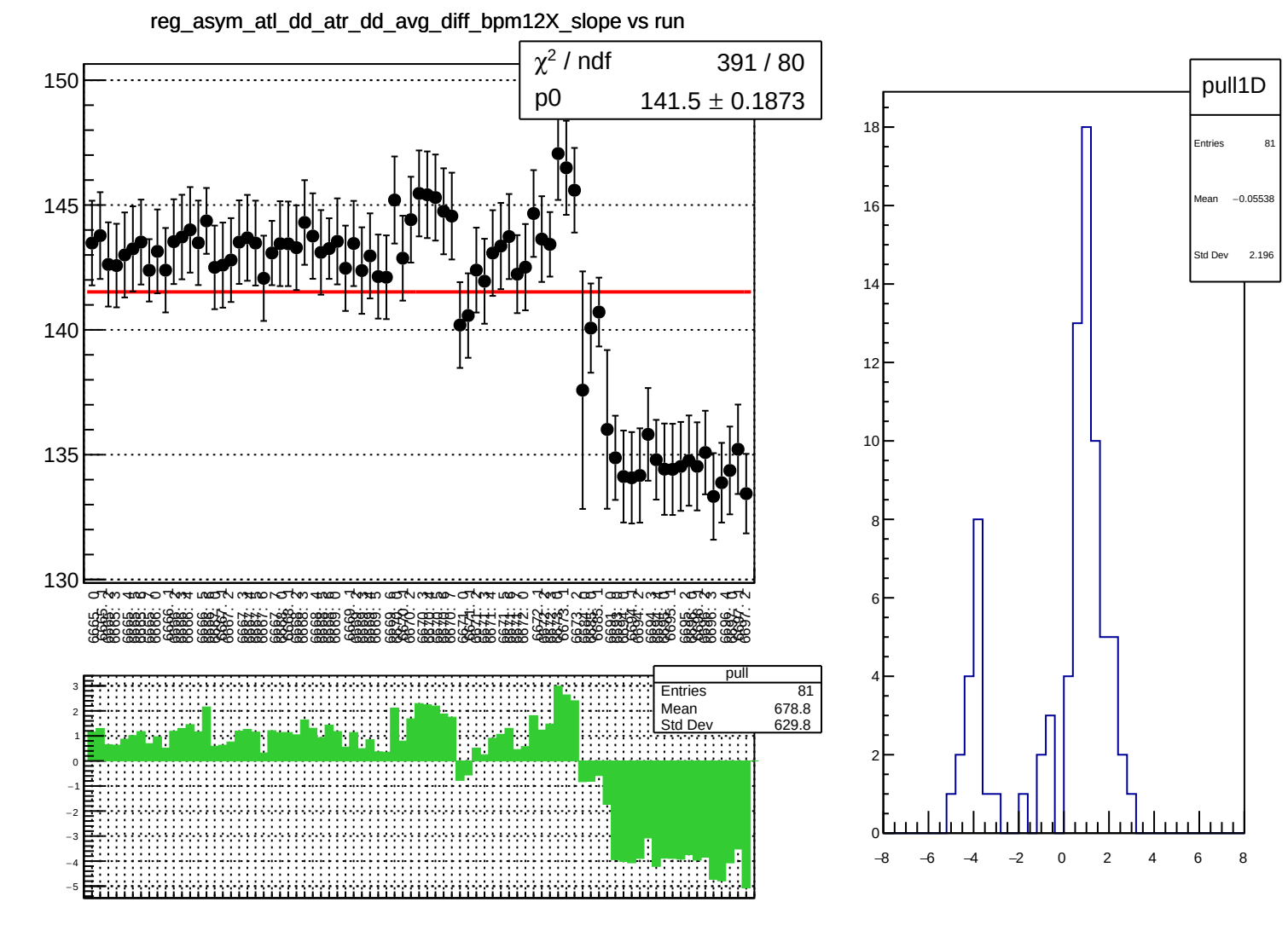

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 76.72 / 80
p0 234.5 ± 4.495
pull
Entries 81
Mean 254
Std Dev 205
pull1D
Entries 81
Mean 0.06386
Std Dev 0.9711

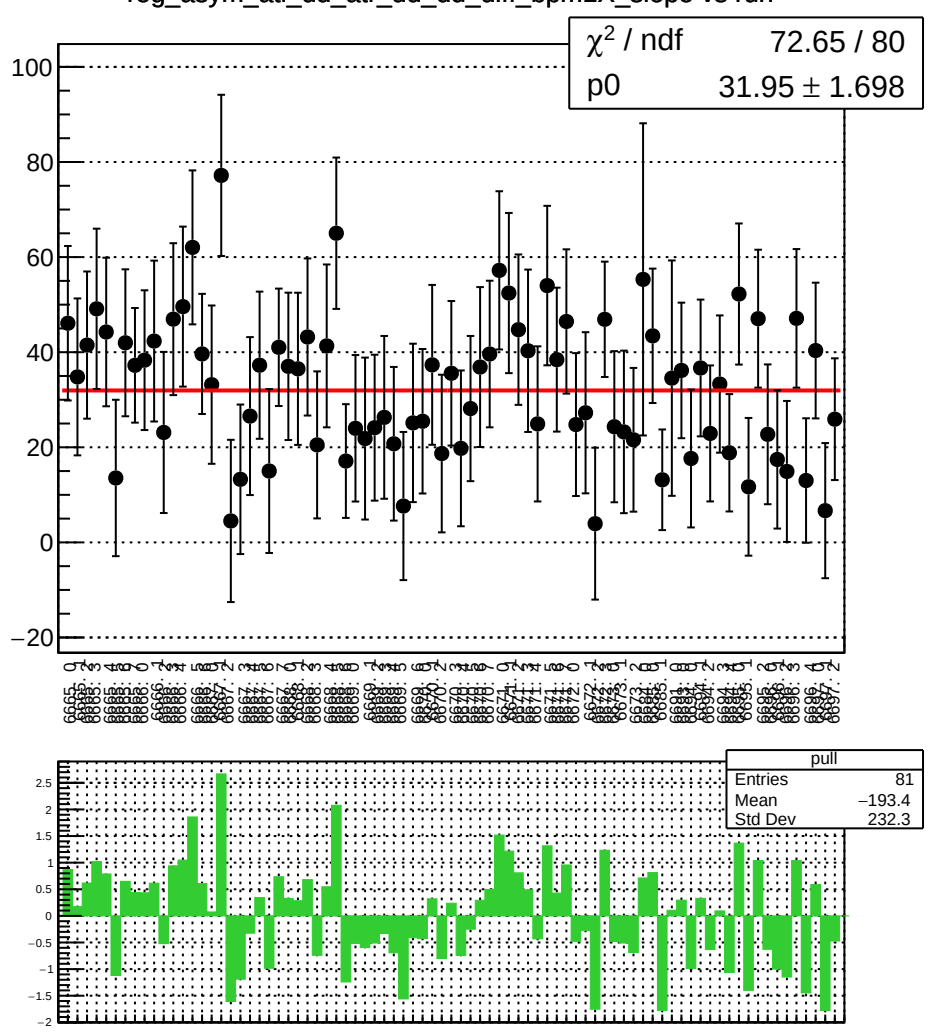

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.91 / 80
p0 18.12 ± 3.667
pull
Entries 81
Mean 108.8
Std Dev 55.5
pull1D
Entries 81
Mean −0.107
Std Dev 0.5441

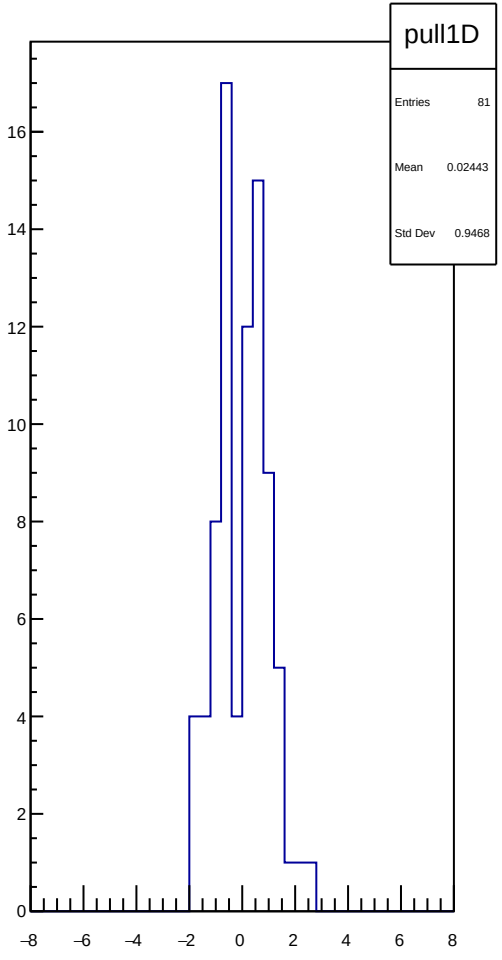

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.67 / 80
p0 −267.1± 4.76
−150
−200
−250
−300
−350
pull
Entries 81
Mean 450.4
Std Dev 401.8
1.5
1
0.5
0
−0.5
−1
−1.5

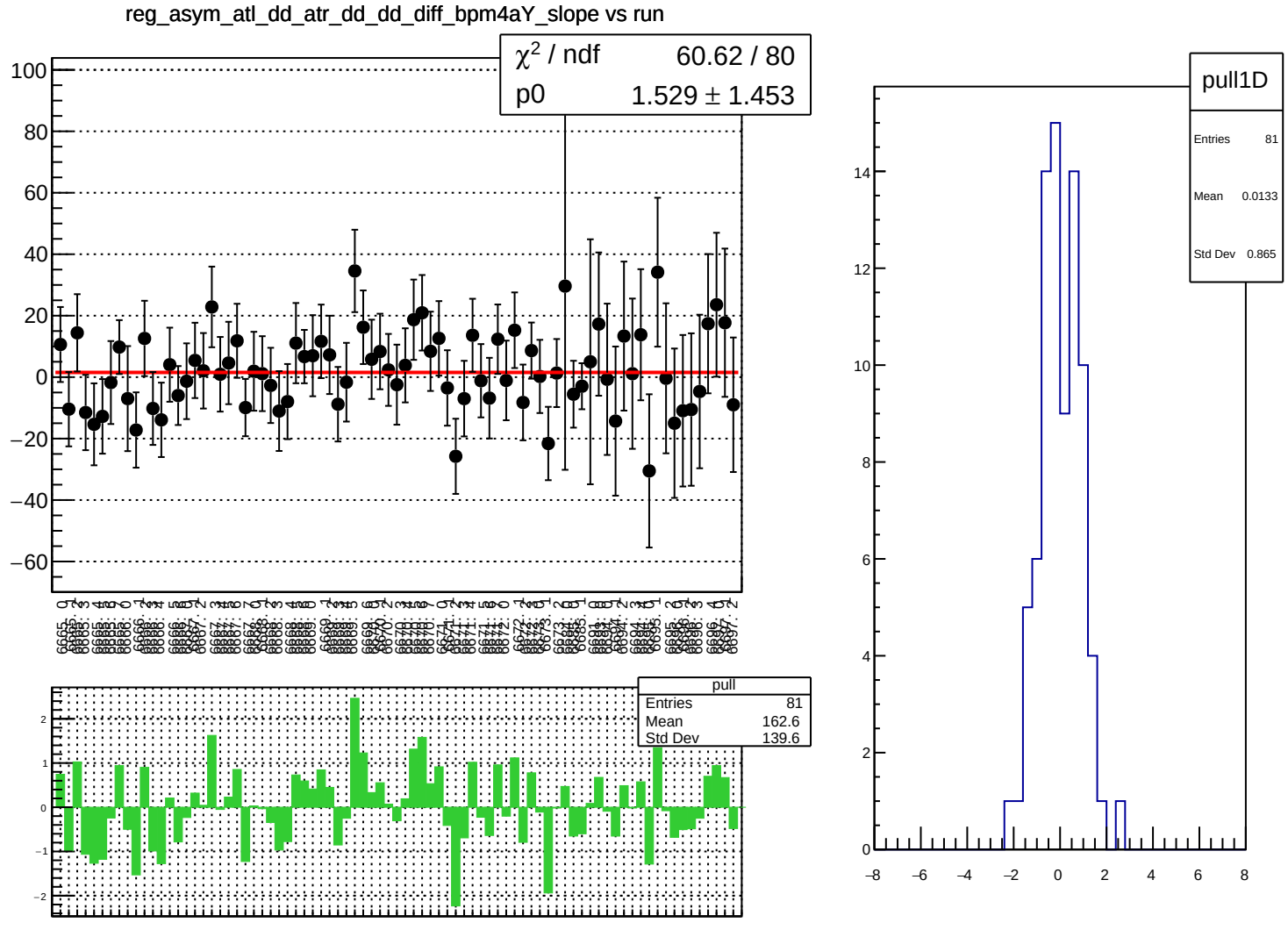

pull1D
Entries 81
Mean −0.01814
Std Dev 0.717
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

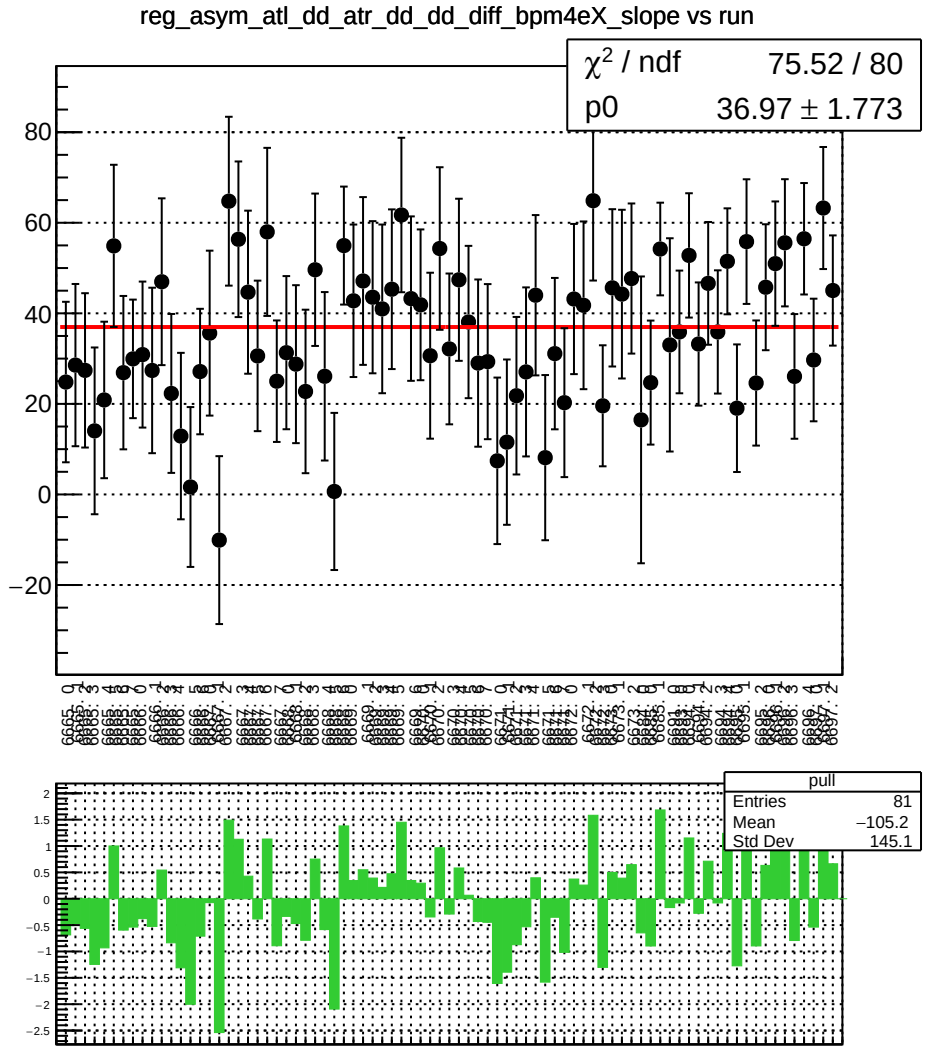

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 34.8 / 80
p0 −111.7 ± 4.223
200
100
0
−100
−200
−300
pull
Entries 81
Mean 123.8
Std Dev 71.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.113
Std Dev 0.6456
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

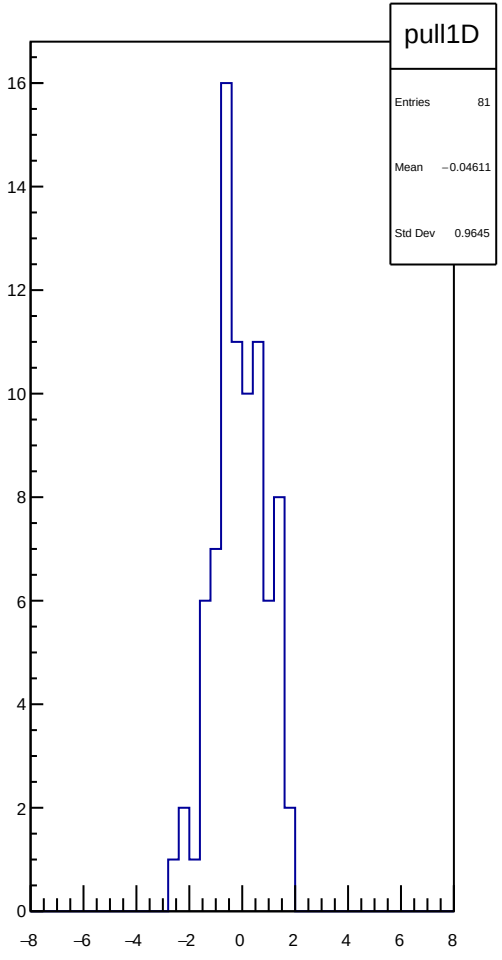

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 391 / 80
p0 141.5 ± 0.1873
150
145
140
135
130
pull
Entries 81
Mean 678.8
Std Dev 629.8
pull1D
Entries 81
Mean −0.05538
Std Dev 2.196

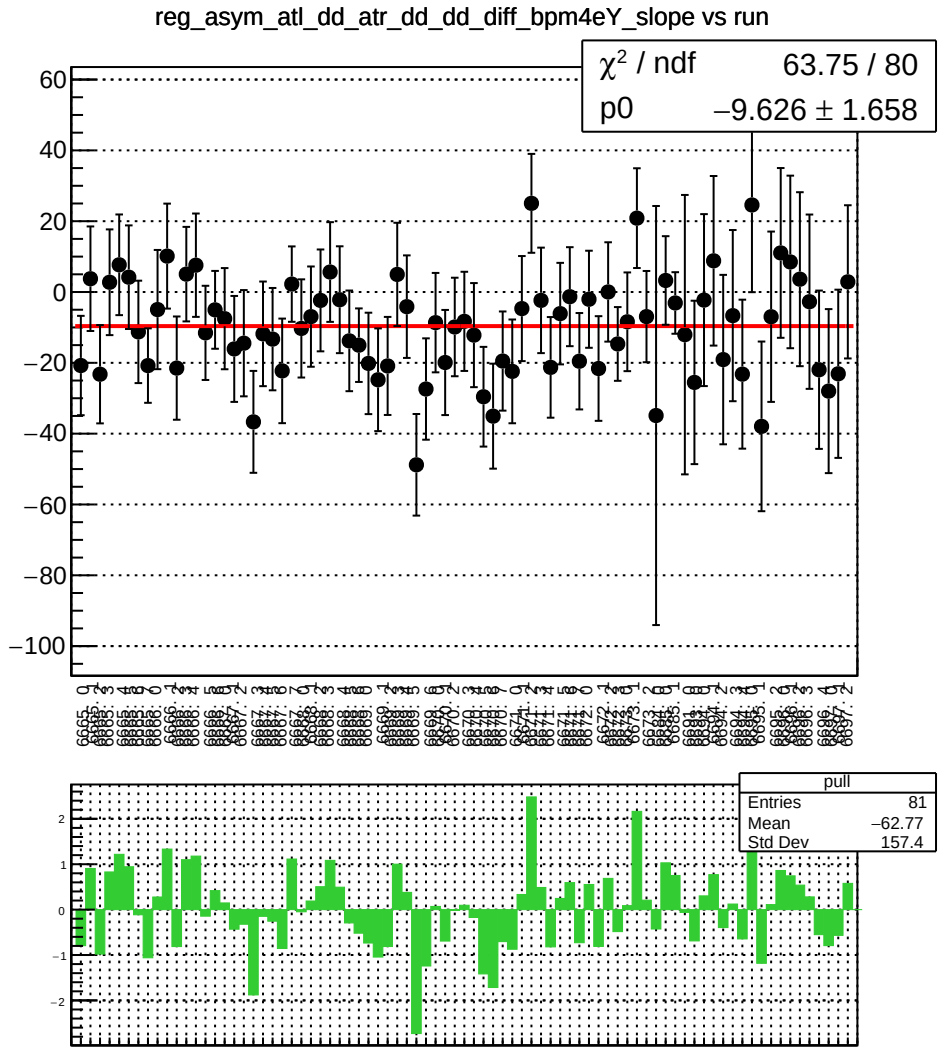

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 72.65 / 80
p0 31.95 ± 1.698
pull
Entries 81
Mean −193.4
Std Dev 232.3

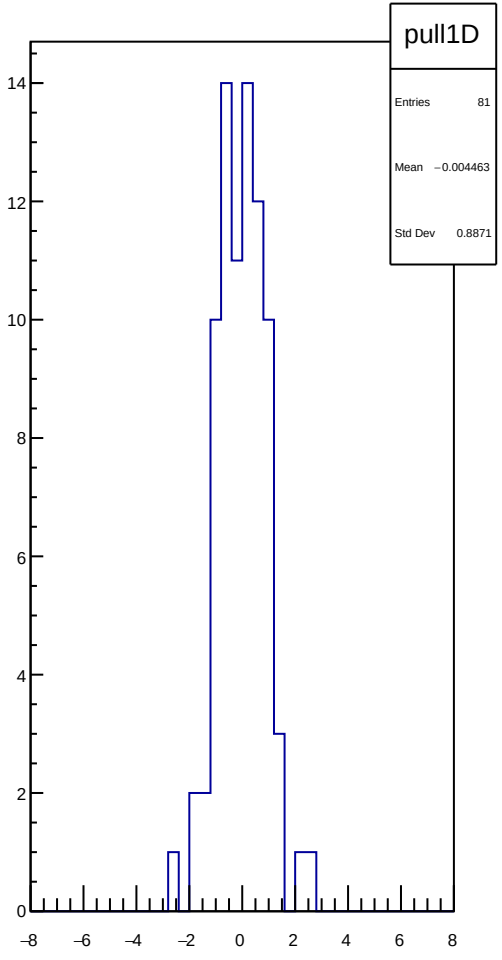

pull1D
Entries 81
Mean 0.02443
Std Dev 0.9468

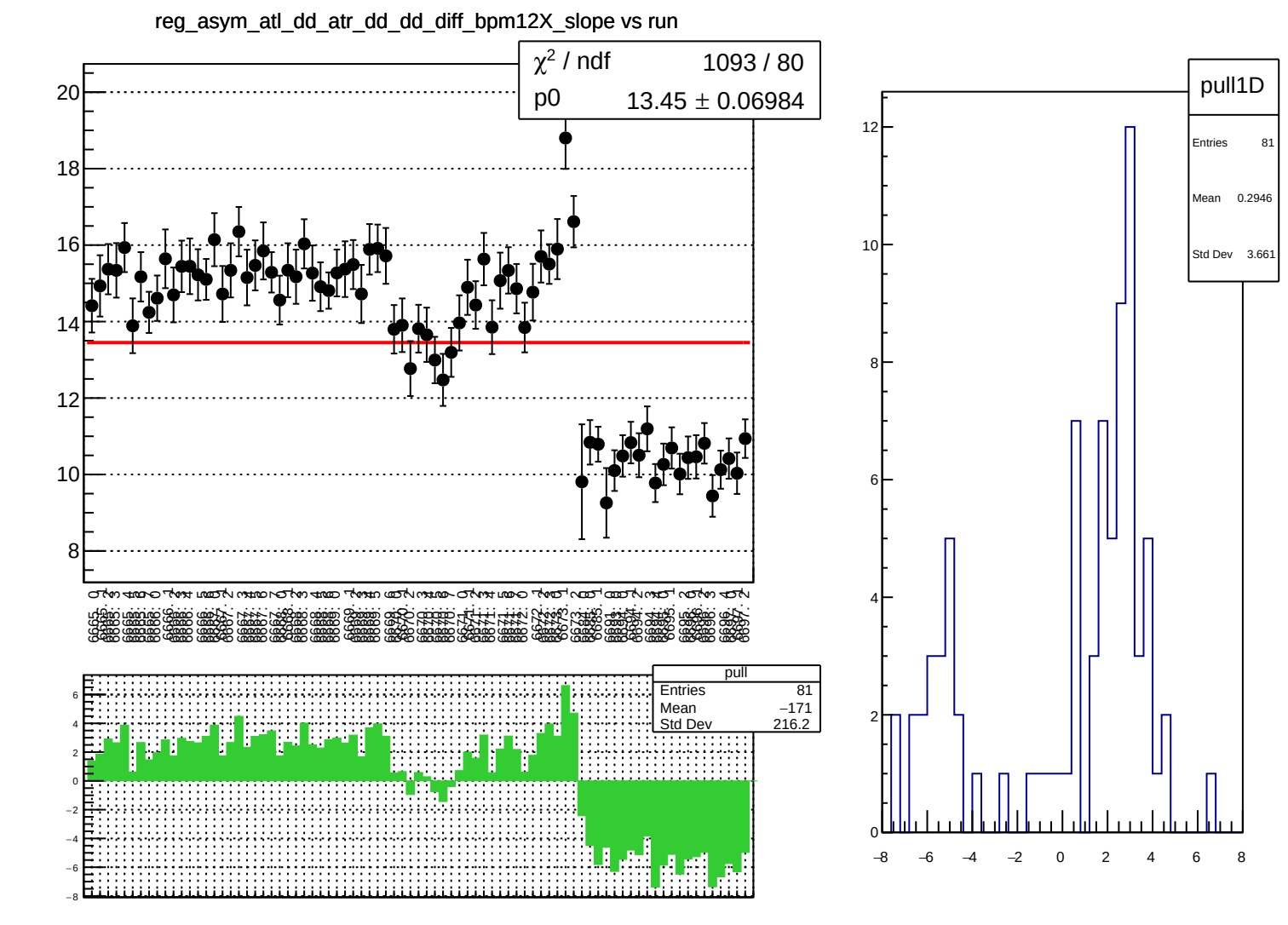

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 60.62 / 80
p0 1.529 ± 1.453
pull
Entries 81
Mean 162.6
Std Dev 139.6
pull1D
Entries 81
Mean 0.0133
Std Dev 0.865

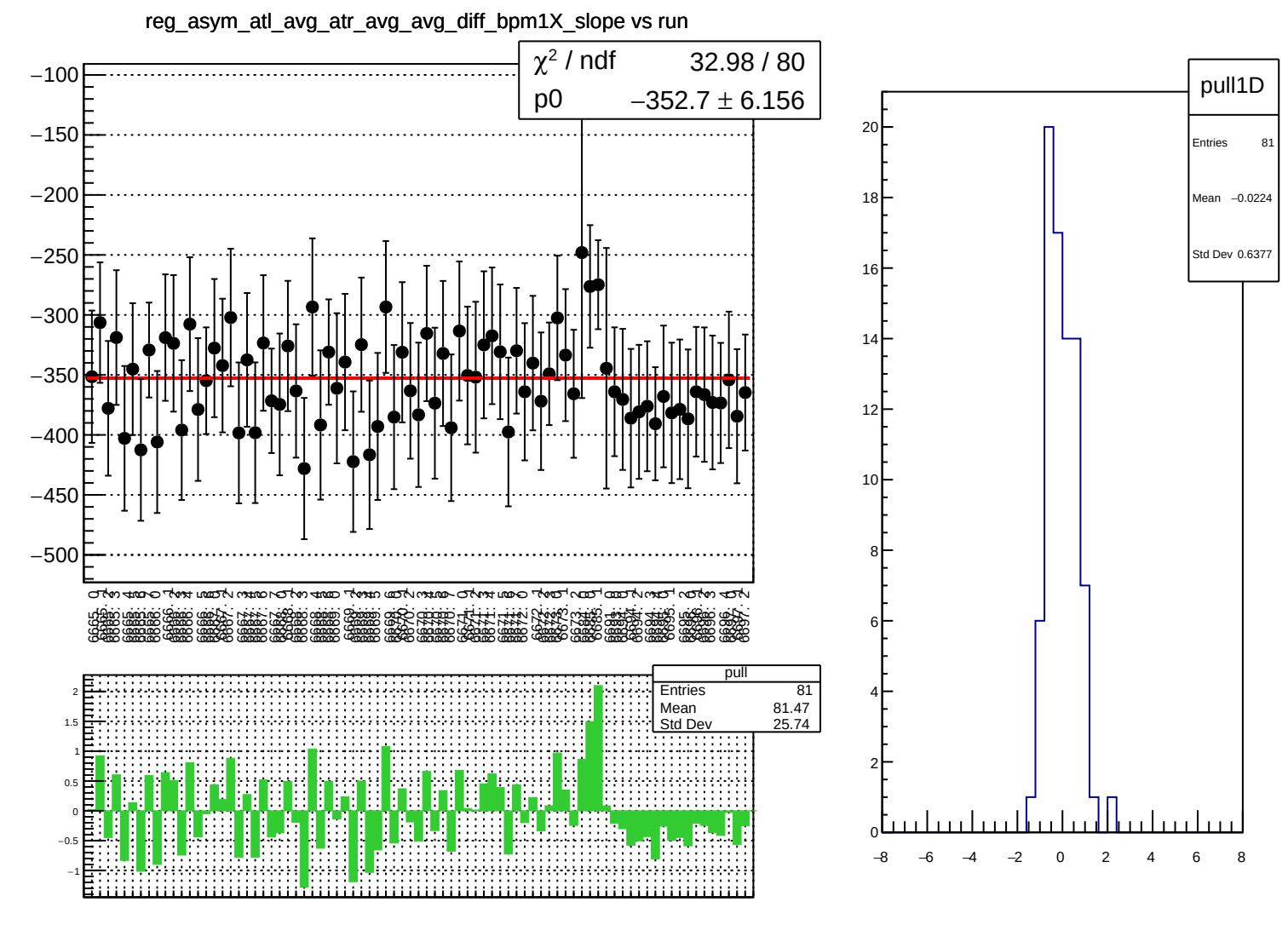

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 75.52 / 80
p0 36.97 ± 1.773
pull
Entries 81
Mean −105.2
Std Dev 145.1

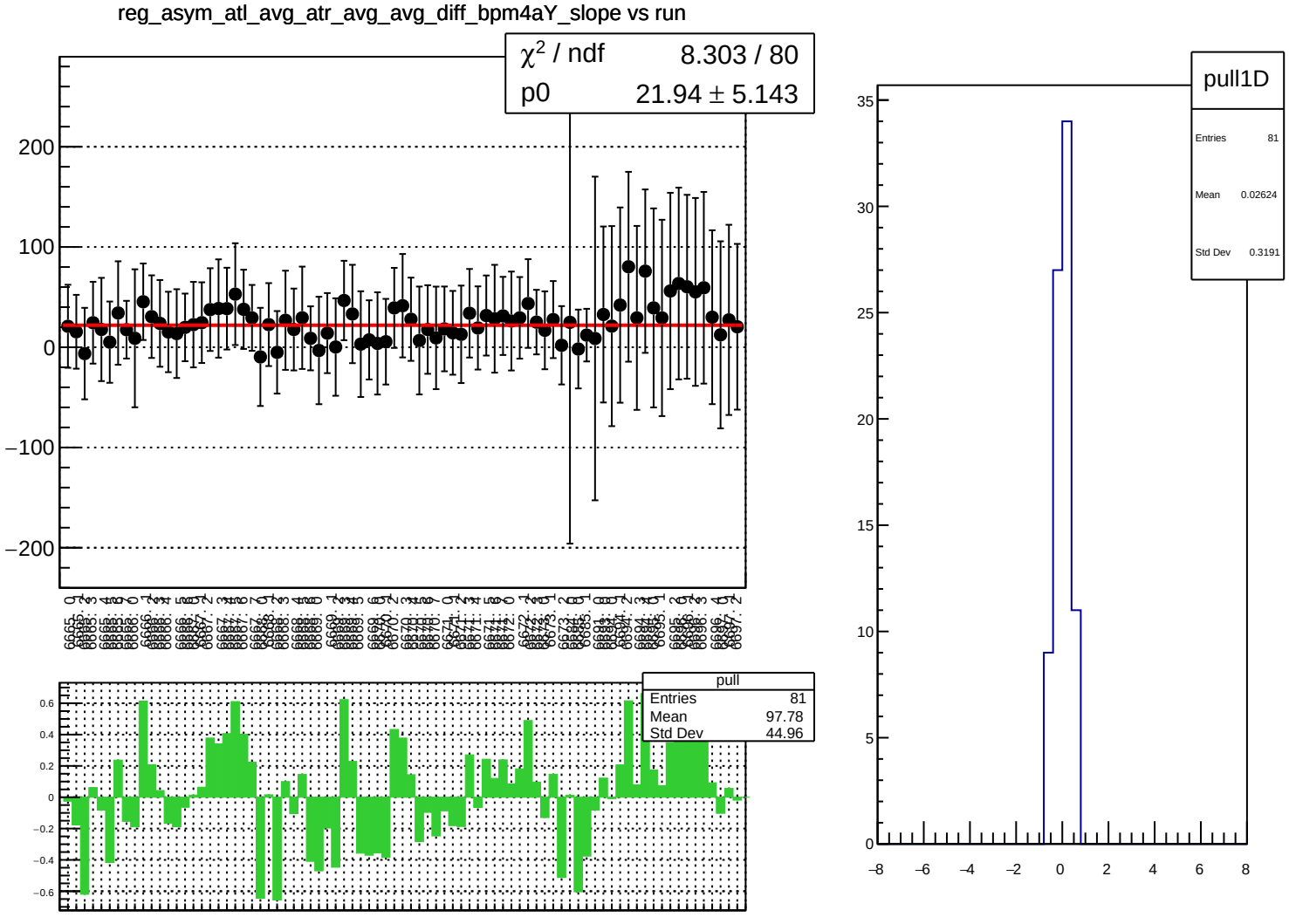

pull1D
Entries 81
Mean −0.04611
Std Dev 0.9645

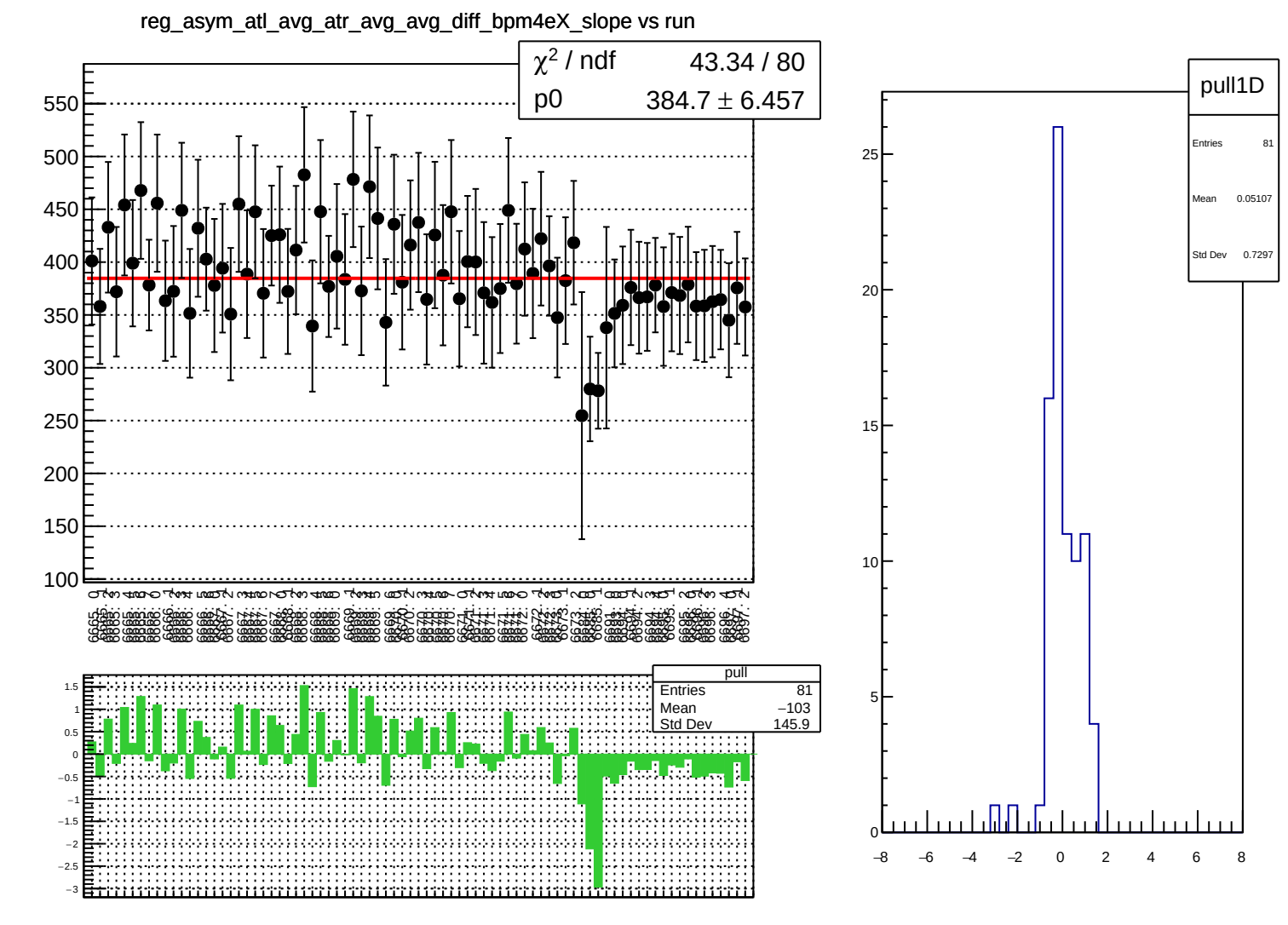

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 63.75 / 80
p0 −9.626 ± 1.658
pull
Entries 81
Mean −62.77
Std Dev 157.4

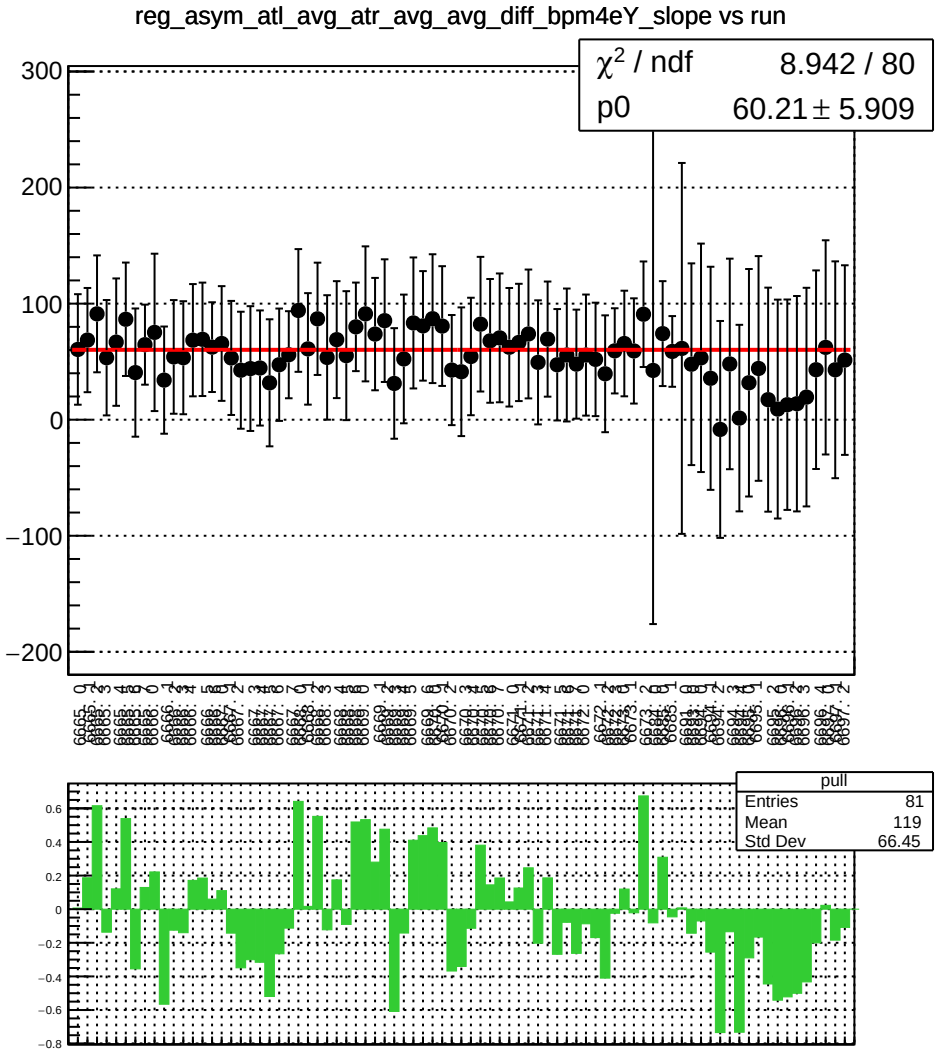

pull1D
Entries 81
Mean −0.004463
Std Dev 0.8871

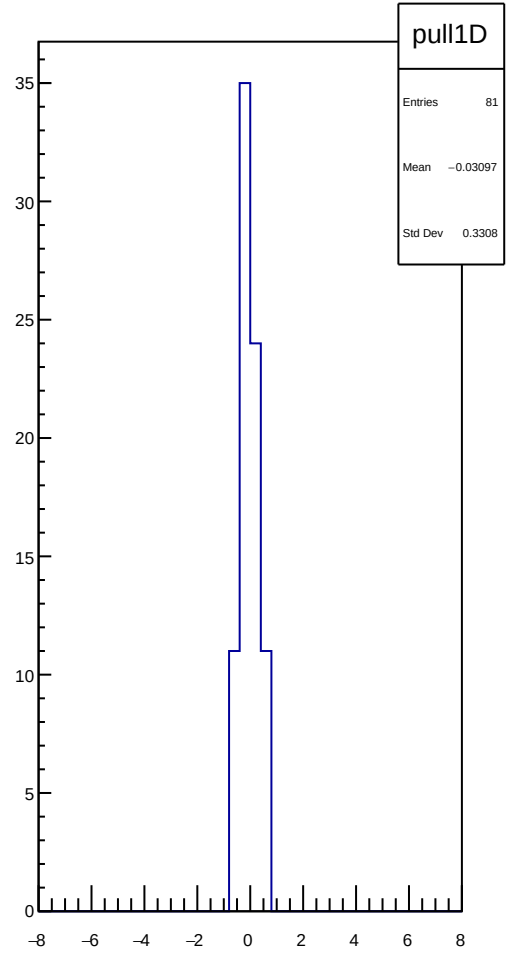

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 1093 / 80
p0 13.45 ± 0.06984
pull
Entries 81
Mean −171
Std Dev 216.2
pull1D
Entries 81
Mean 0.2946
Std Dev 3.661

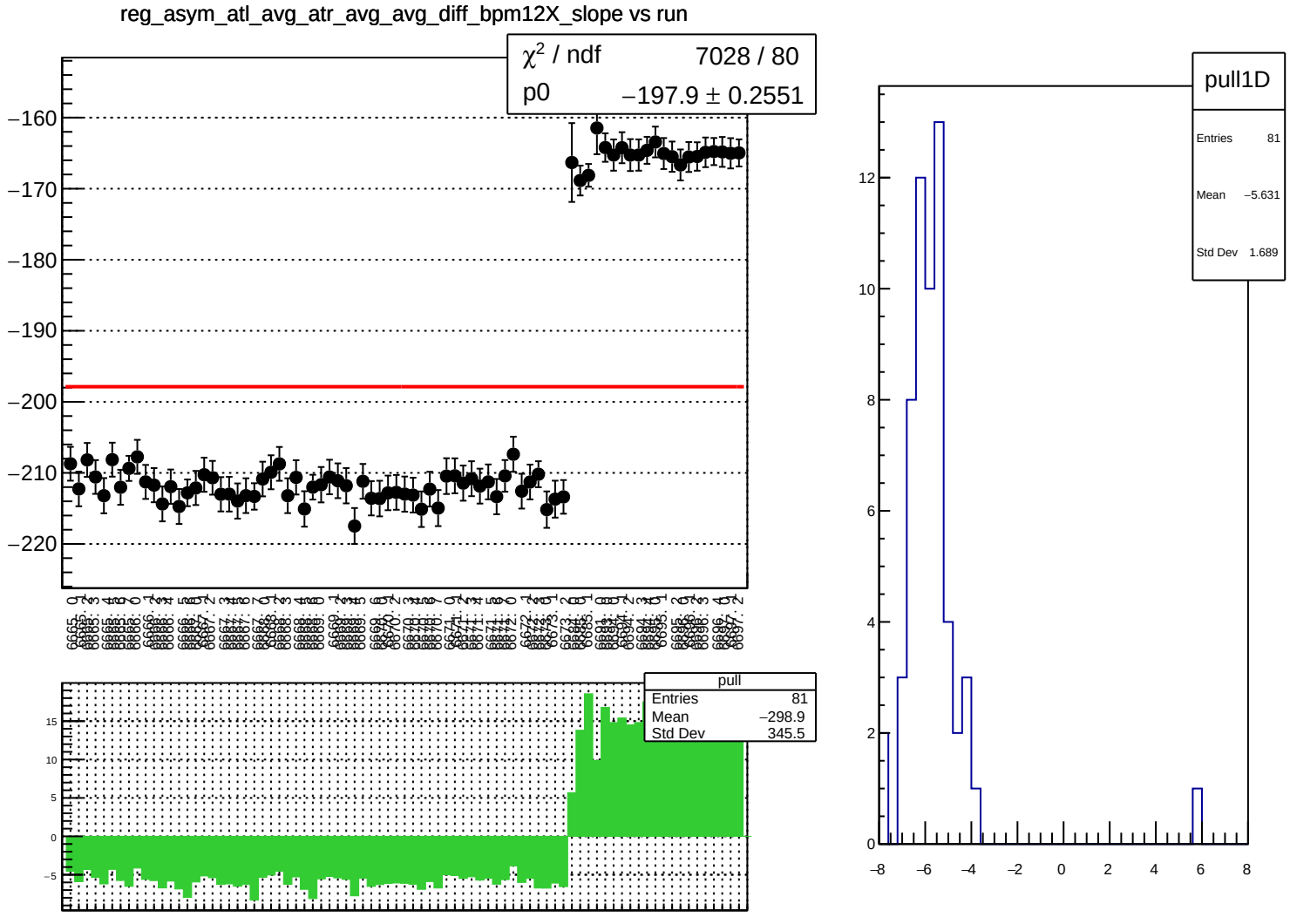

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 32.98 / 80
p0 −352.7 ± 6.156
pull
Entries 81
Mean 81.47
Std Dev 25.74
pull1D
Entries 81
Mean −0.0224
Std Dev 0.6377

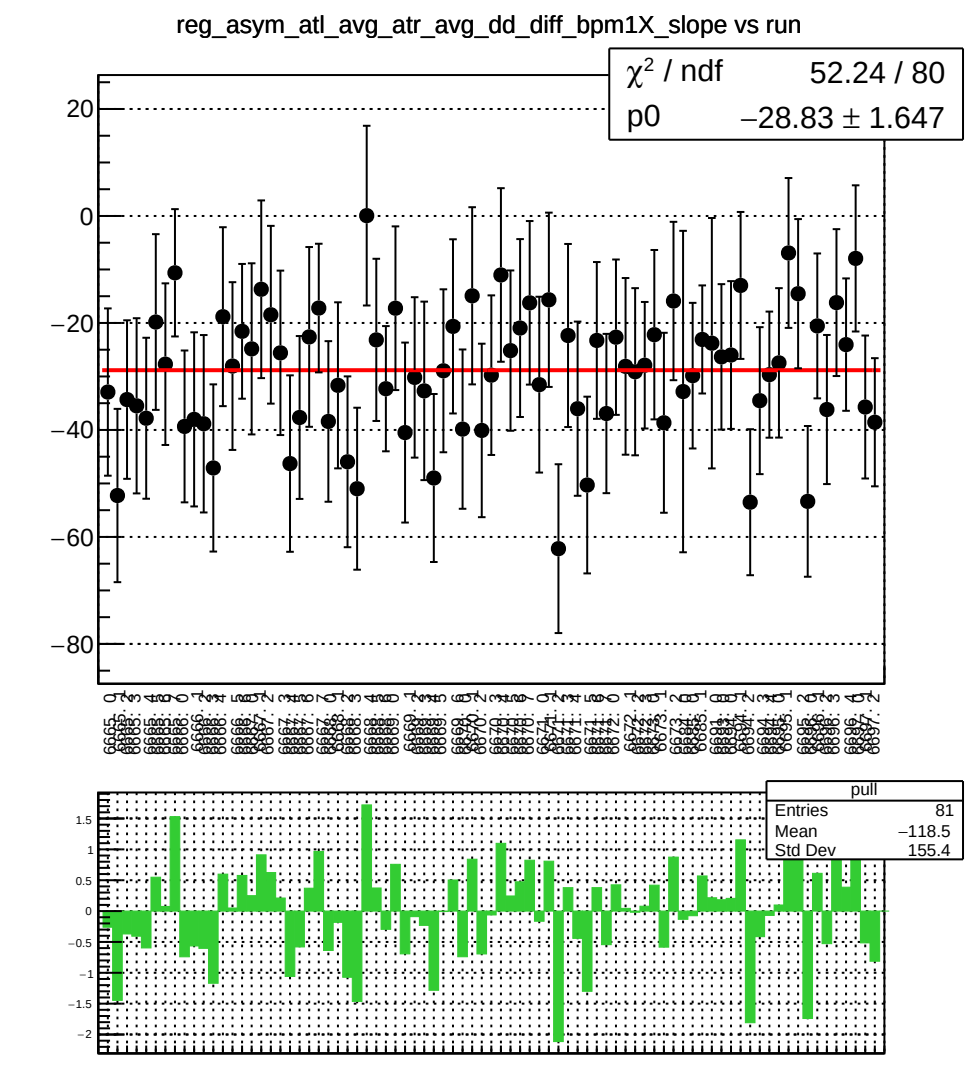

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 8.303 / 80
p0 21.94 ± 5.143
pull
Entries 81
Mean 97.78
Std Dev 44.96
pull1D
Entries 81
Mean 0.02624
Std Dev 0.3191

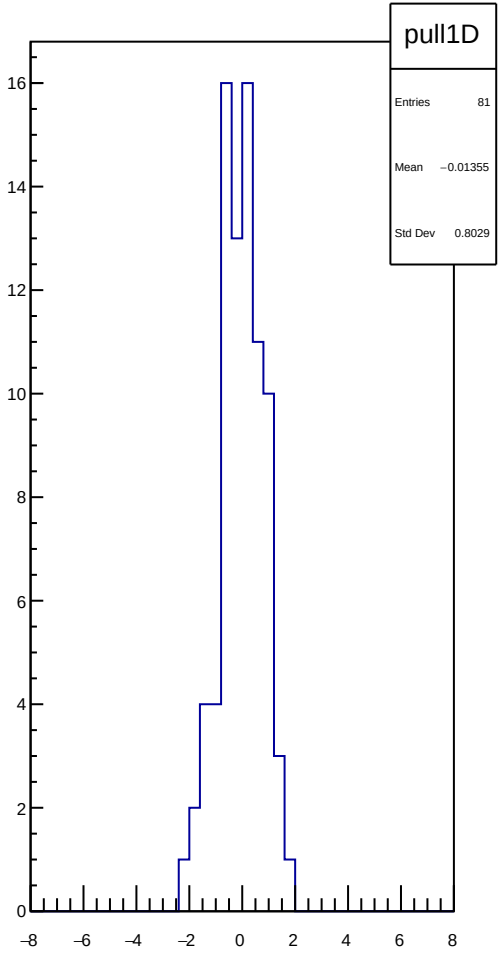

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 43.34 / 80
p0 384.7 ± 6.457
pull
Entries 81
Mean −103
Std Dev 145.9
pull1D
Entries 81
Mean 0.05107
Std Dev 0.7297

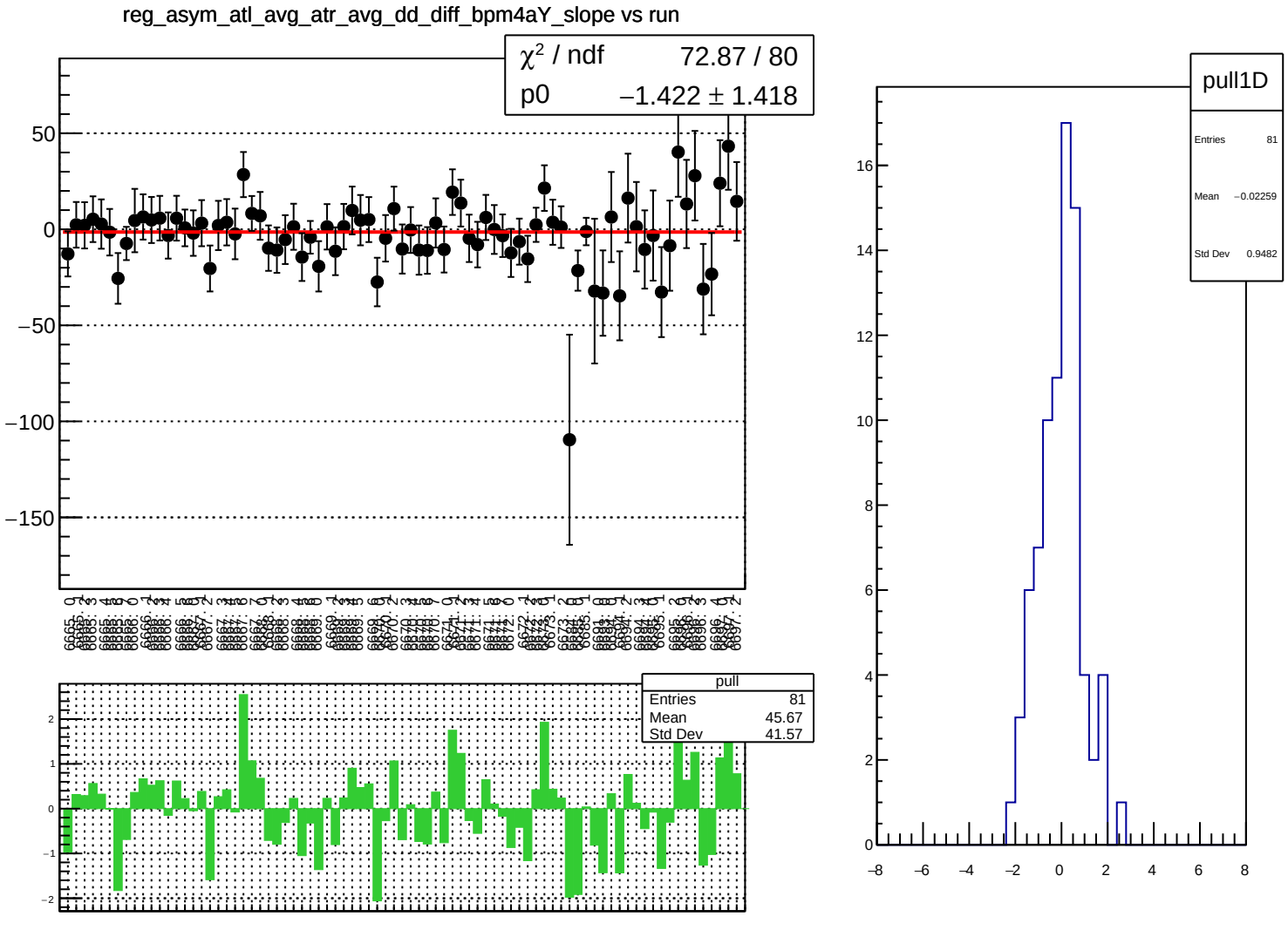

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 8.942 / 80
p0 60.21 ± 5.909
pull
Entries 81
Mean 119
Std Dev 66.45

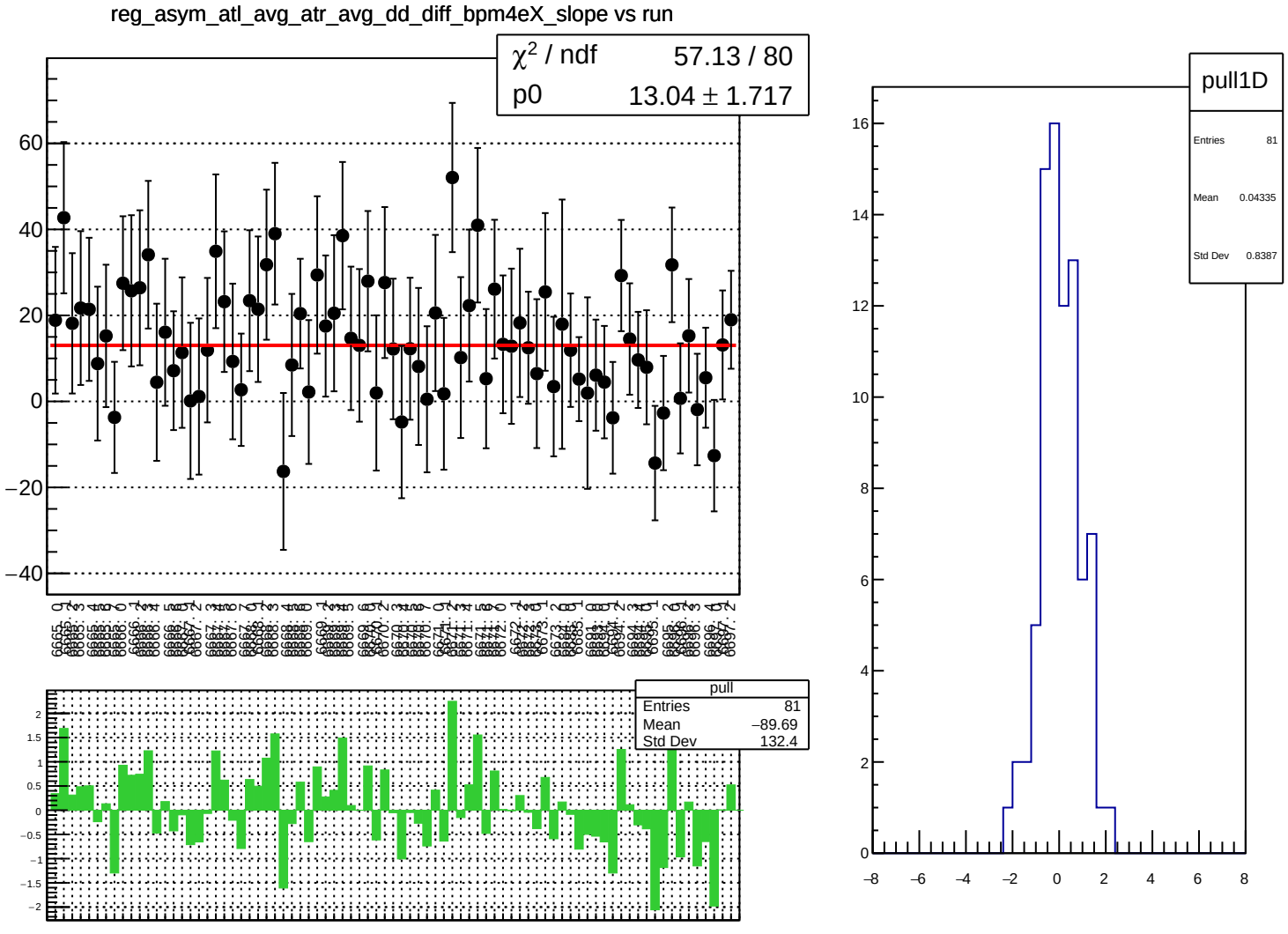

pull1D
Entries 81
Mean −0.03097
Std Dev 0.3308

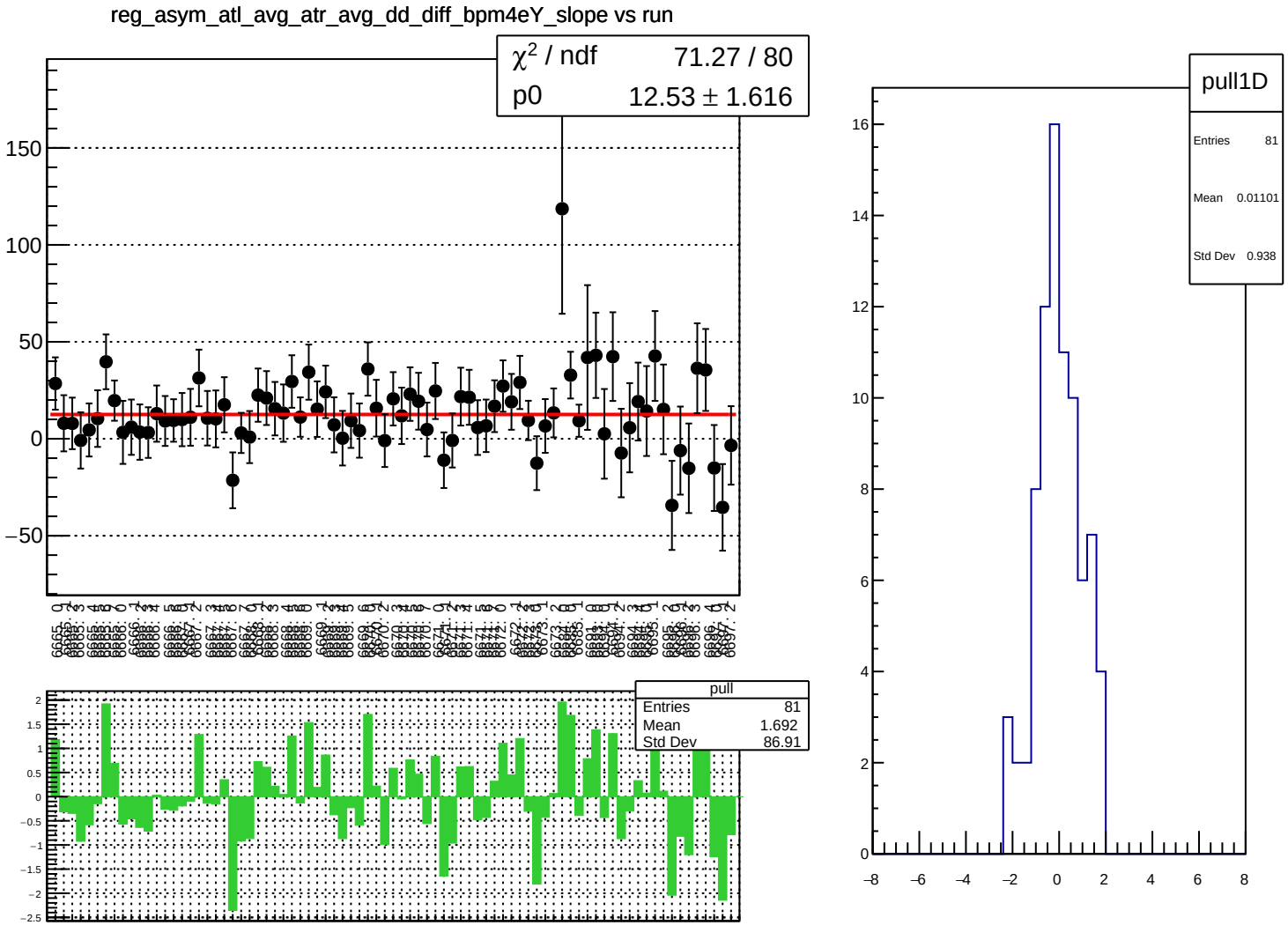

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 7028 / 80
p0 −197.9 ± 0.2551
−160
−170
−180
−190
−200
−210
−220
pull
Entries 81
Mean −298.9
Std Dev 345.5
15
10
5
0
−5
pull1D
Entries 81
Mean −5.631
Std Dev 1.689
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

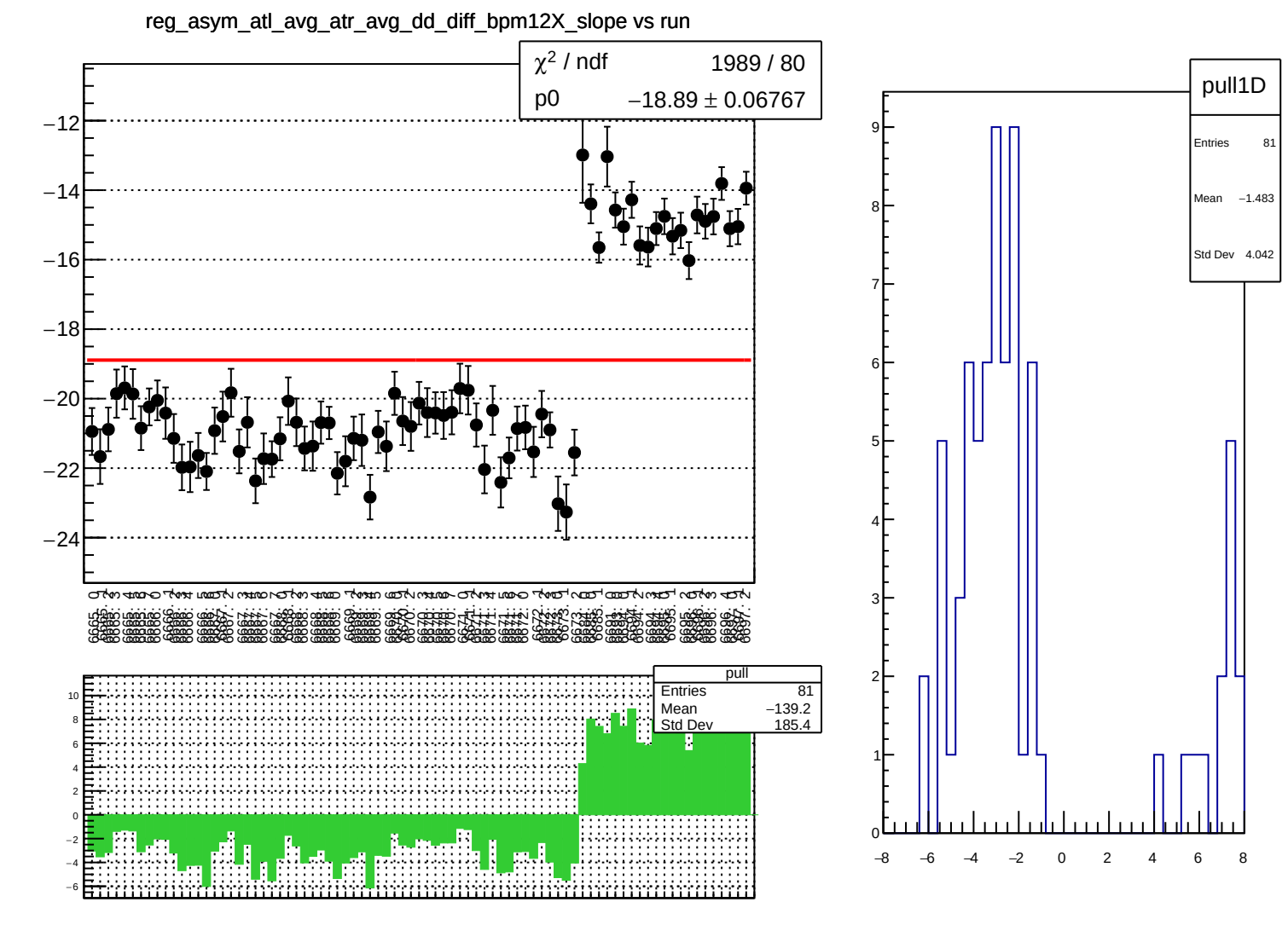

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 52.24 / 80
p0 −28.83 ± 1.647
pull
Entries 81
Mean −118.5
Std Dev 155.4

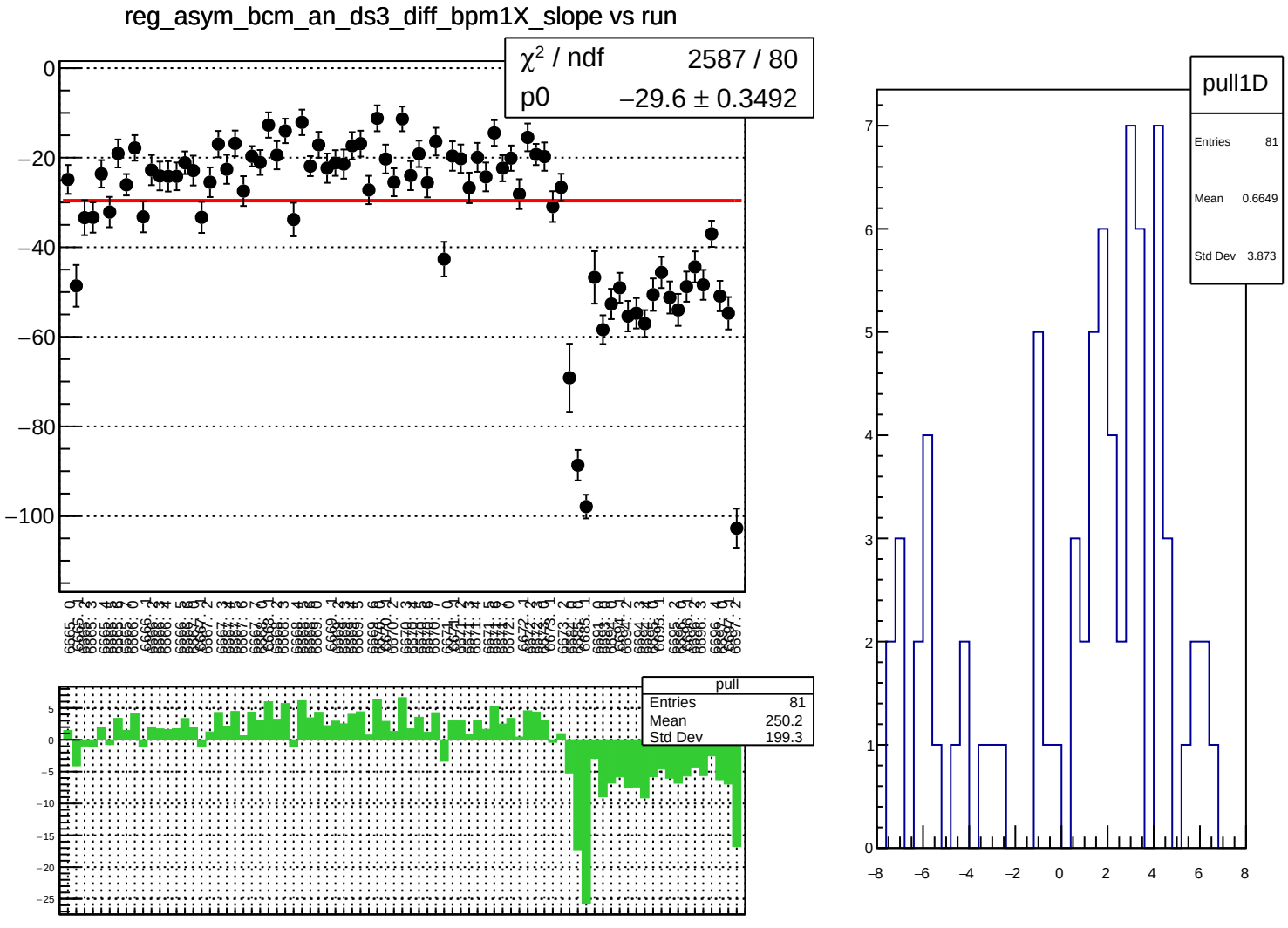

pull1D
Entries 81
Mean −0.01355
Std Dev 0.8029

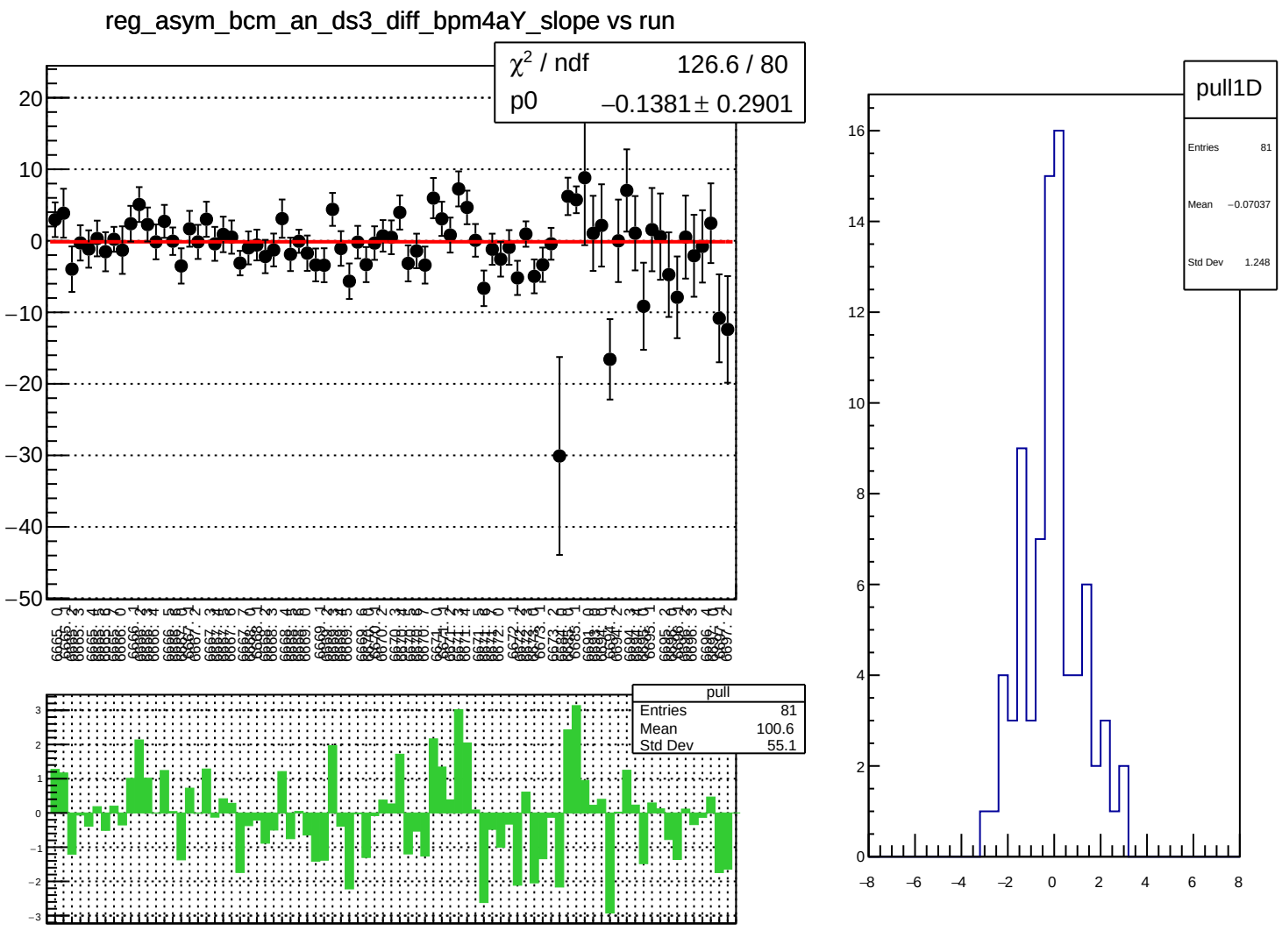

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.87 / 80
p0 −1.422 ± 1.418
pull
Entries 81
Mean 45.67
Std Dev 41.57
pull1D
Entries 81
Mean −0.02259
Std Dev 0.9482

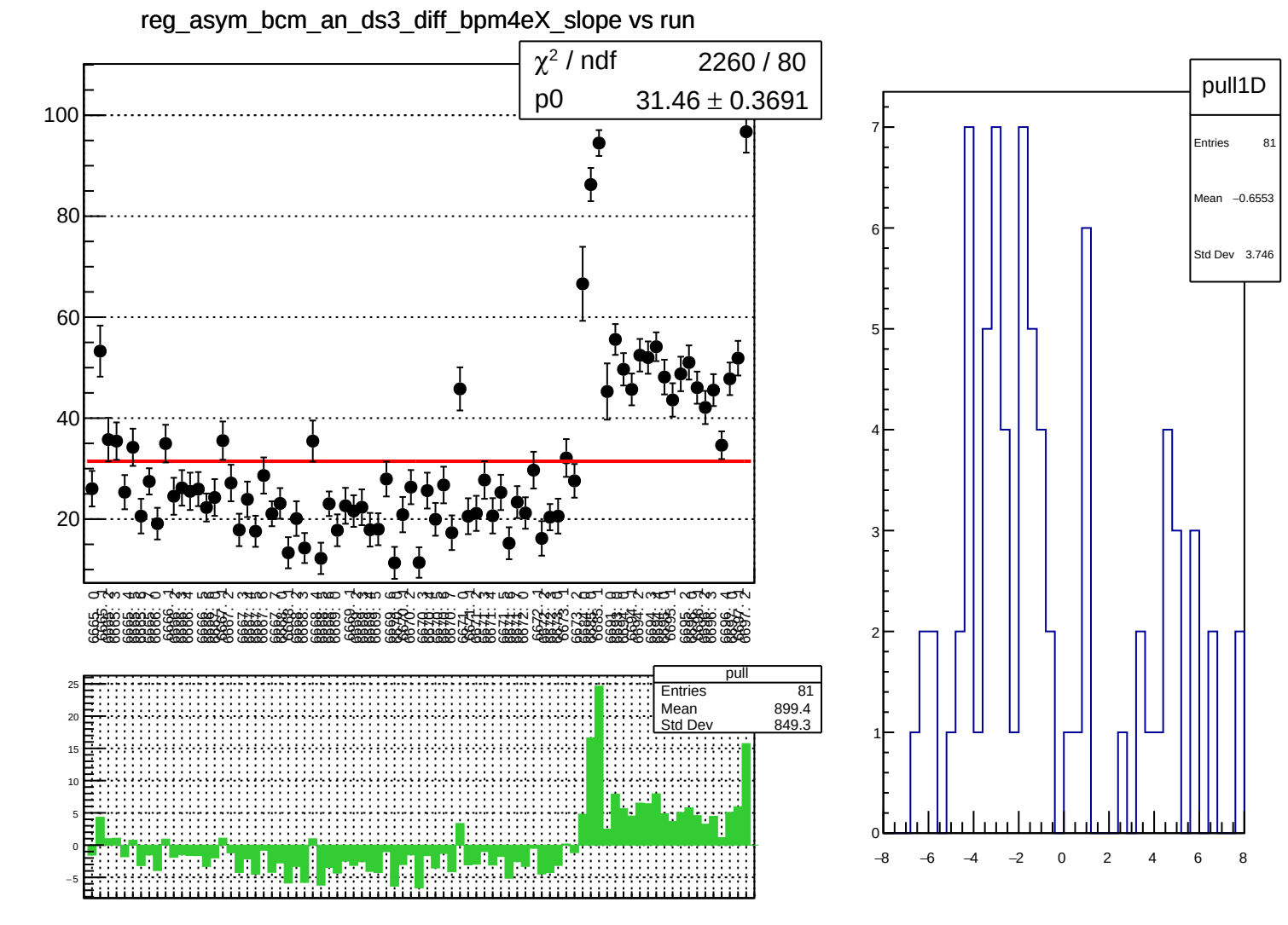

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 57.13 / 80
p0 13.04 ± 1.717
pull
Entries 81
Mean −89.69
Std Dev 132.4
pull1D
Entries 81
Mean 0.04335
Std Dev 0.8387

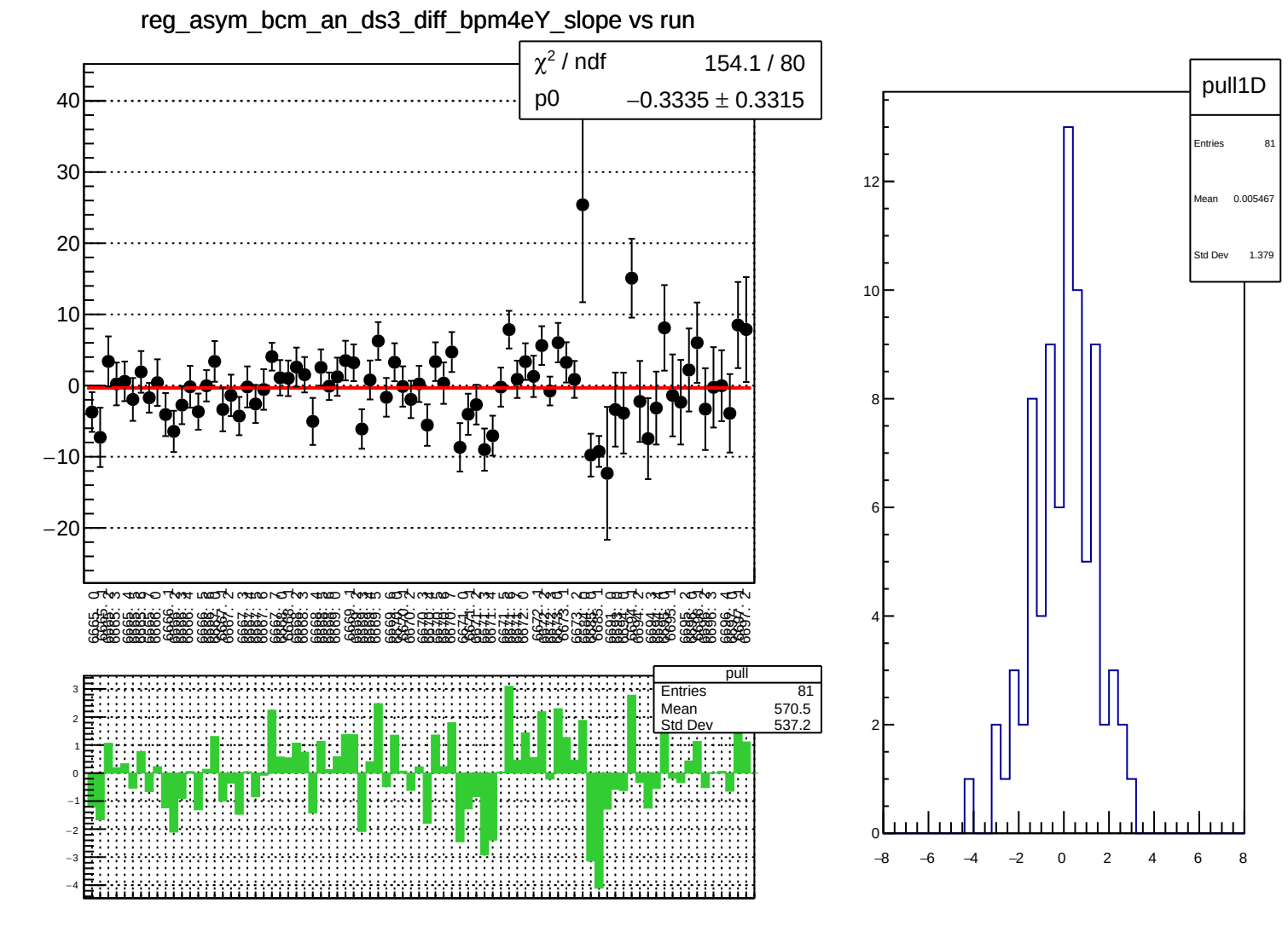

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 71.27 / 80
p0 12.53 ± 1.616
150
100
50
0
−50
pull
Entries 81
Mean 1.692
Std Dev 86.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 81
Mean 0.01101
Std Dev 0.938
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

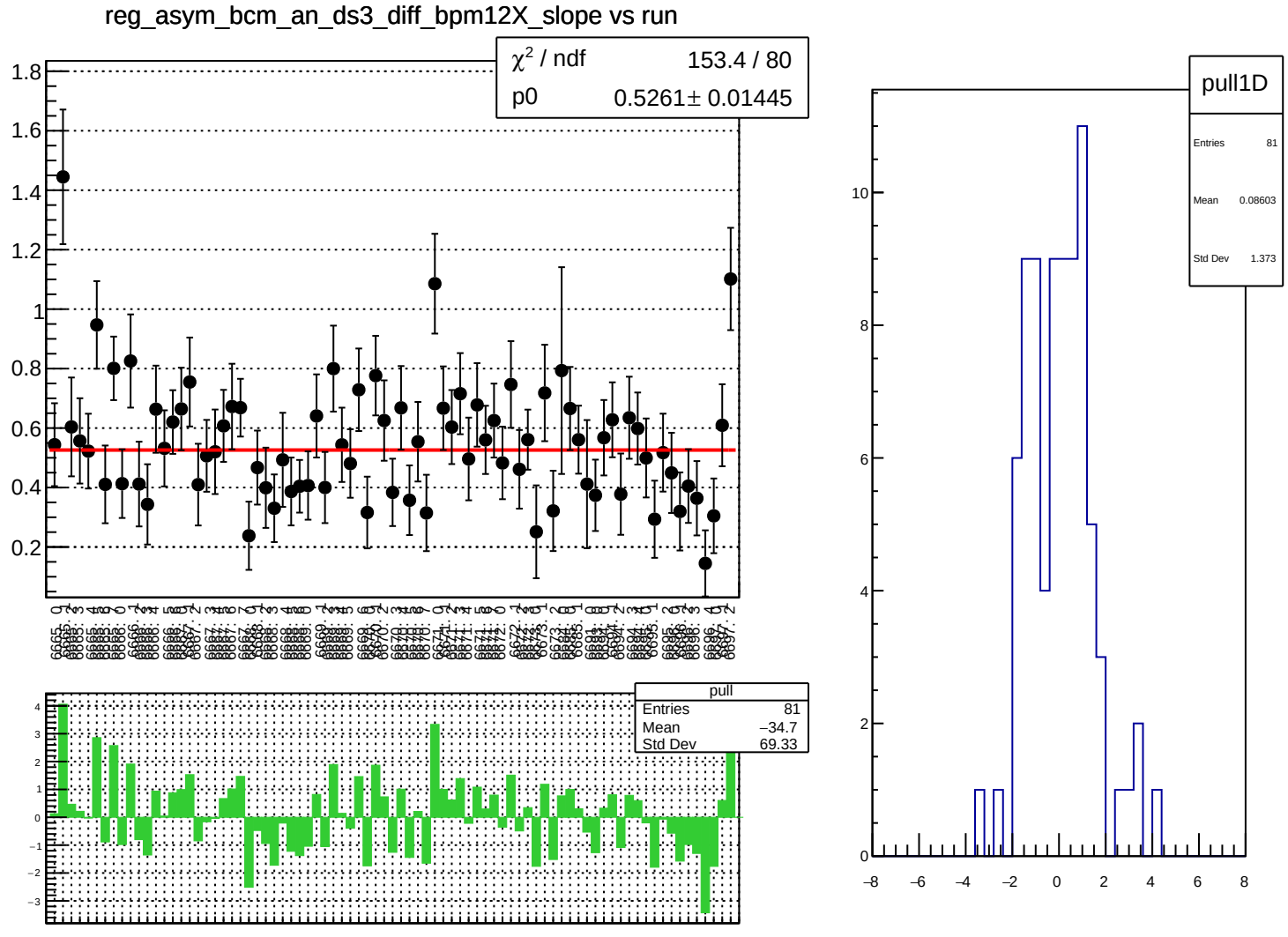

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 1989 / 80
p0 −18.89 ± 0.06767
pull
Entries 81
Mean −139.2
Std Dev 185.4
pull1D
Entries 81
Mean −1.483
Std Dev 4.042

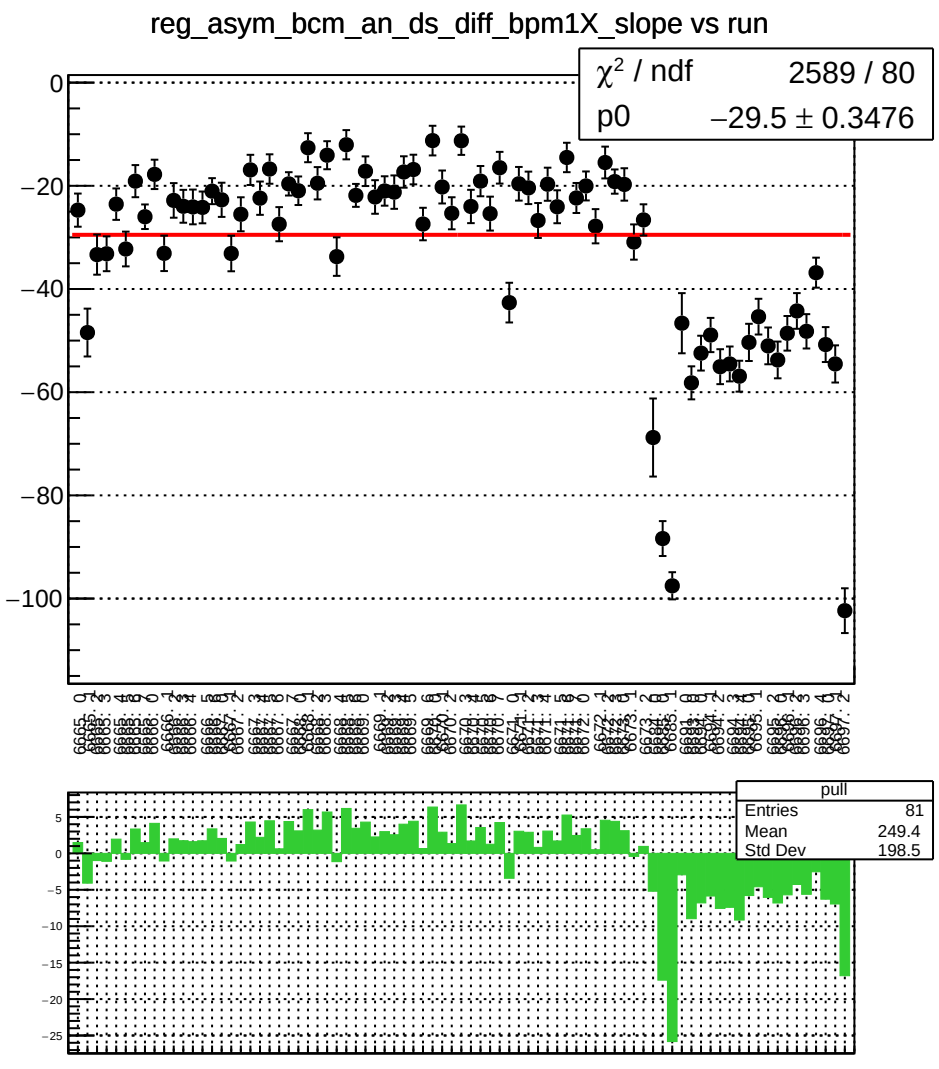

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 2587 / 80
p0 −29.6 ± 0.3492
pull
Entries 81
Mean 250.2
Std Dev 199.3
pull1D
Entries 81
Mean 0.6649
Std Dev 3.873

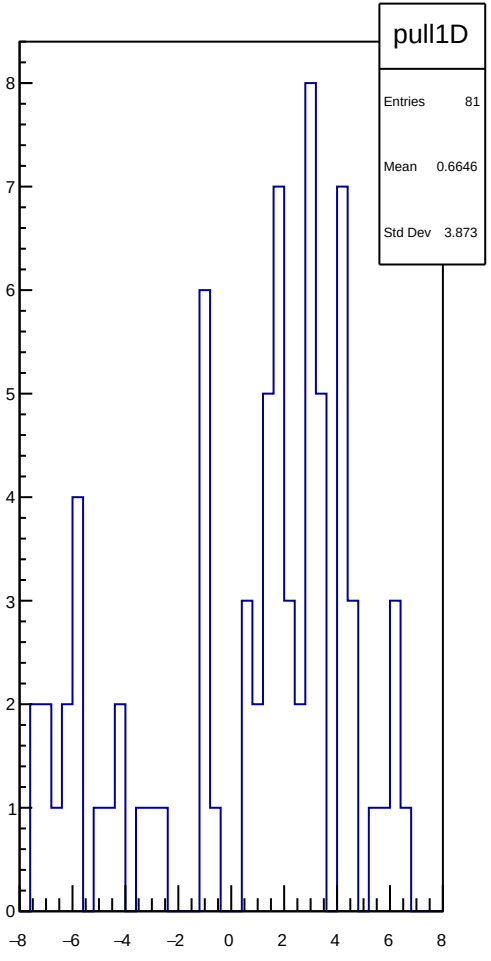

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 126.6 / 80
p0 −0.1381 ± 0.2901
pull
Entries 81
Mean 100.6
Std Dev 55.1
pull1D
Entries 81
Mean −0.07037
Std Dev 1.248

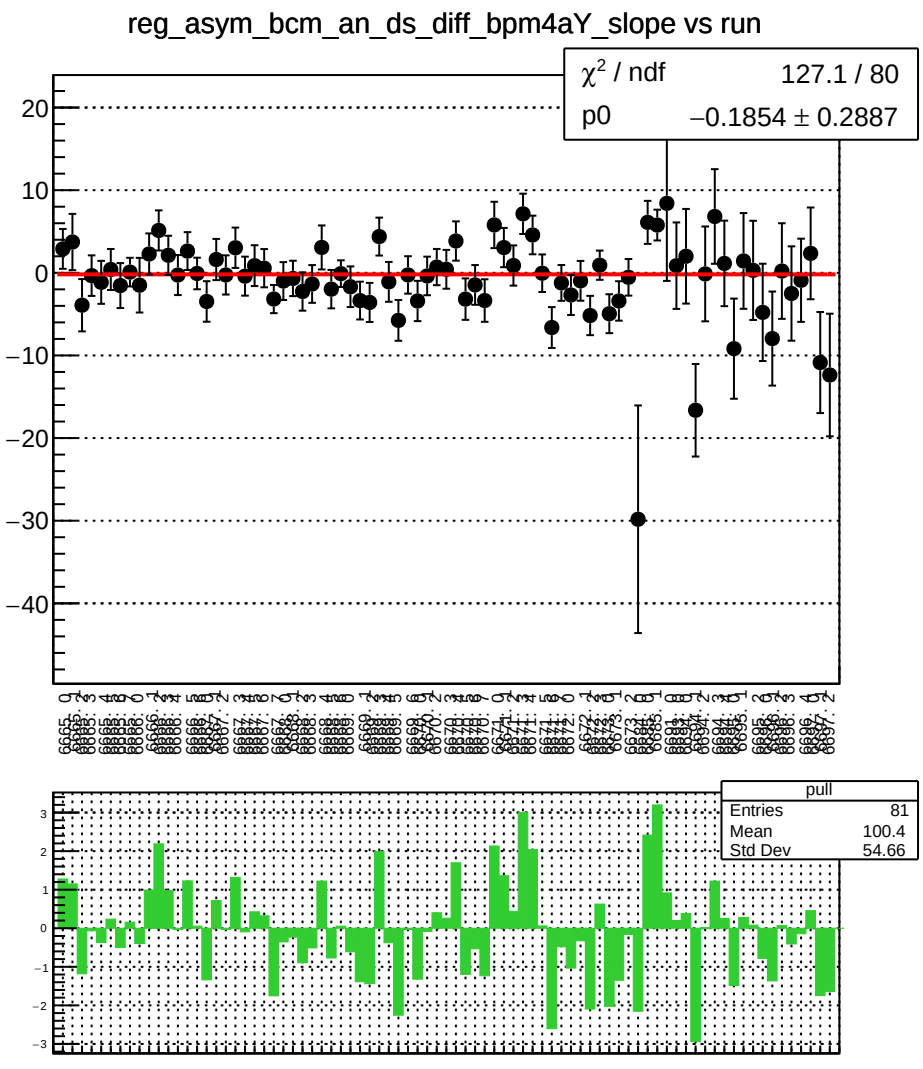

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 2260 / 80
p0 31.46 ± 0.3691
pull
Entries 81
Mean 899.4
Std Dev 849.3
pull1D
Entries 81
Mean −0.6553
Std Dev 3.746

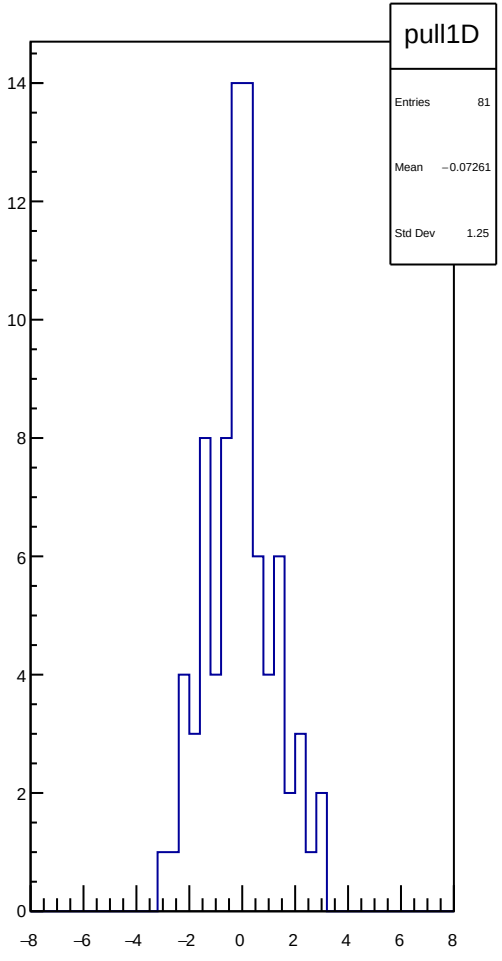

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 154.1 / 80
p0 −0.3335 ± 0.3315
pull
Entries 81
Mean 570.5
Std Dev 537.2
pull1D
Entries 81
Mean 0.005467
Std Dev 1.379

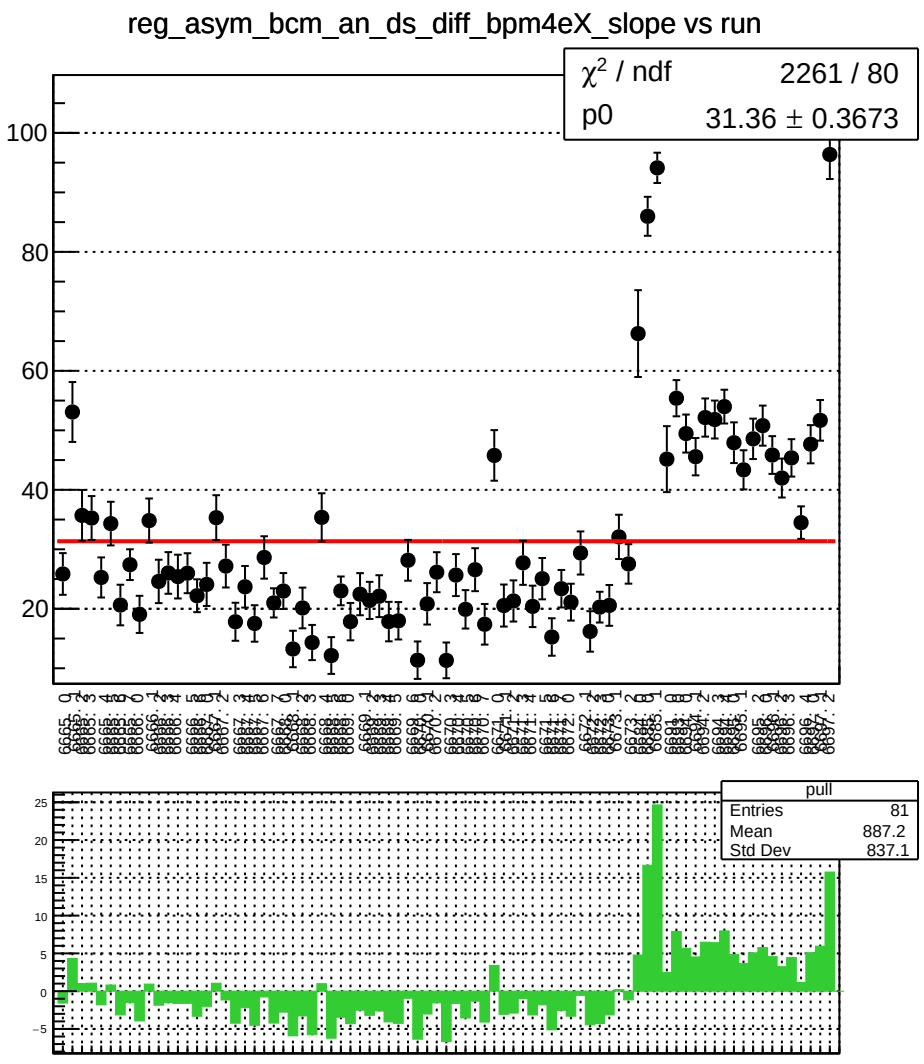

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 153.4 / 80
p0 0.5261± 0.01445
pull
Entries 81
Mean −34.7
Std Dev 69.33
pull1D
Entries 81
Mean 0.08603
Std Dev 1.373

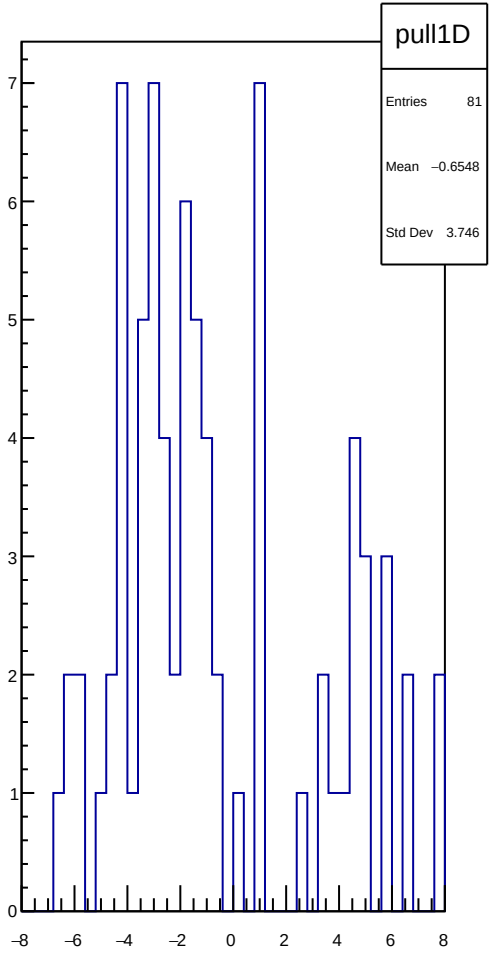

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 2589 / 80
p0 −29.5 ± 0.3476
pull
Entries 81
Mean 249.4
Std Dev 198.5

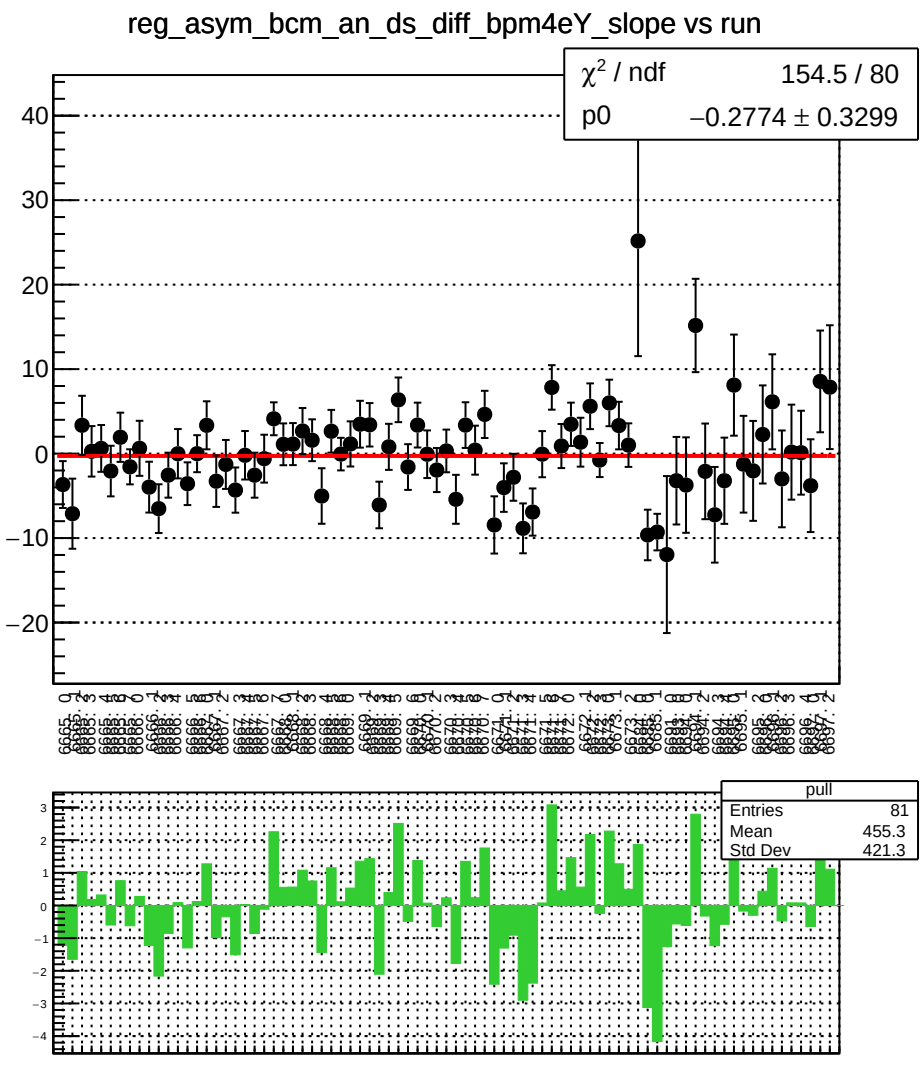

pull1D
Entries 81
Mean 0.6646
Std Dev 3.873

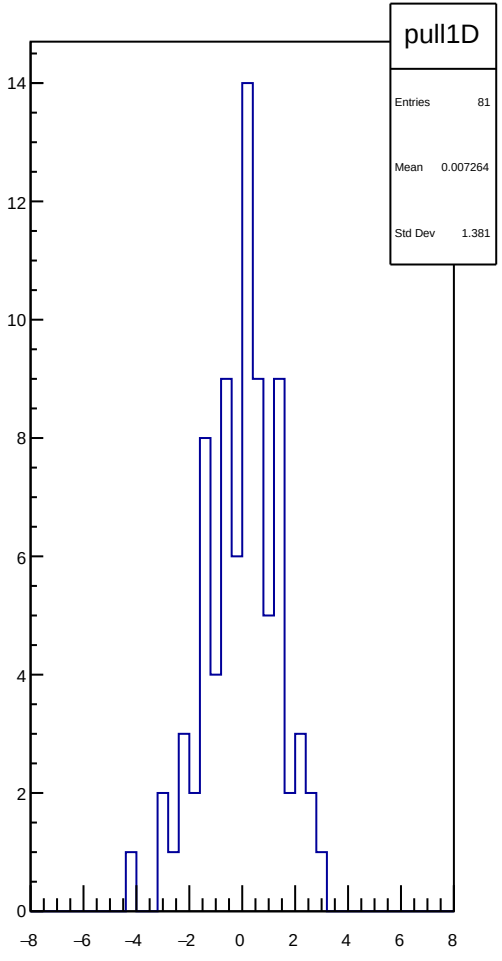

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 127.1 / 80
p0 −0.1854 ± 0.2887
pull
Entries 81
Mean 100.4
Std Dev 54.66

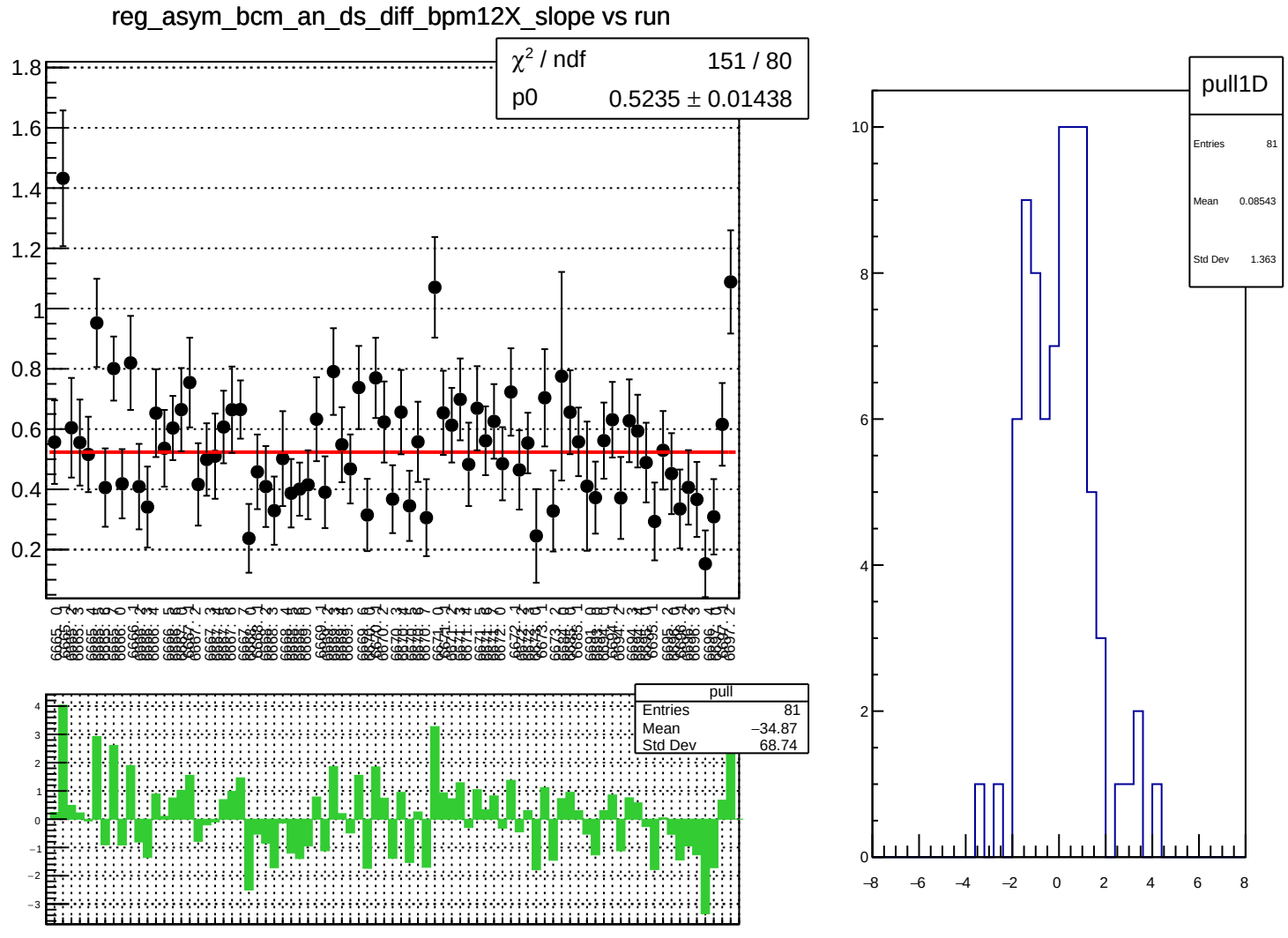

pull1D
Entries 81
Mean −0.07261
Std Dev 1.25

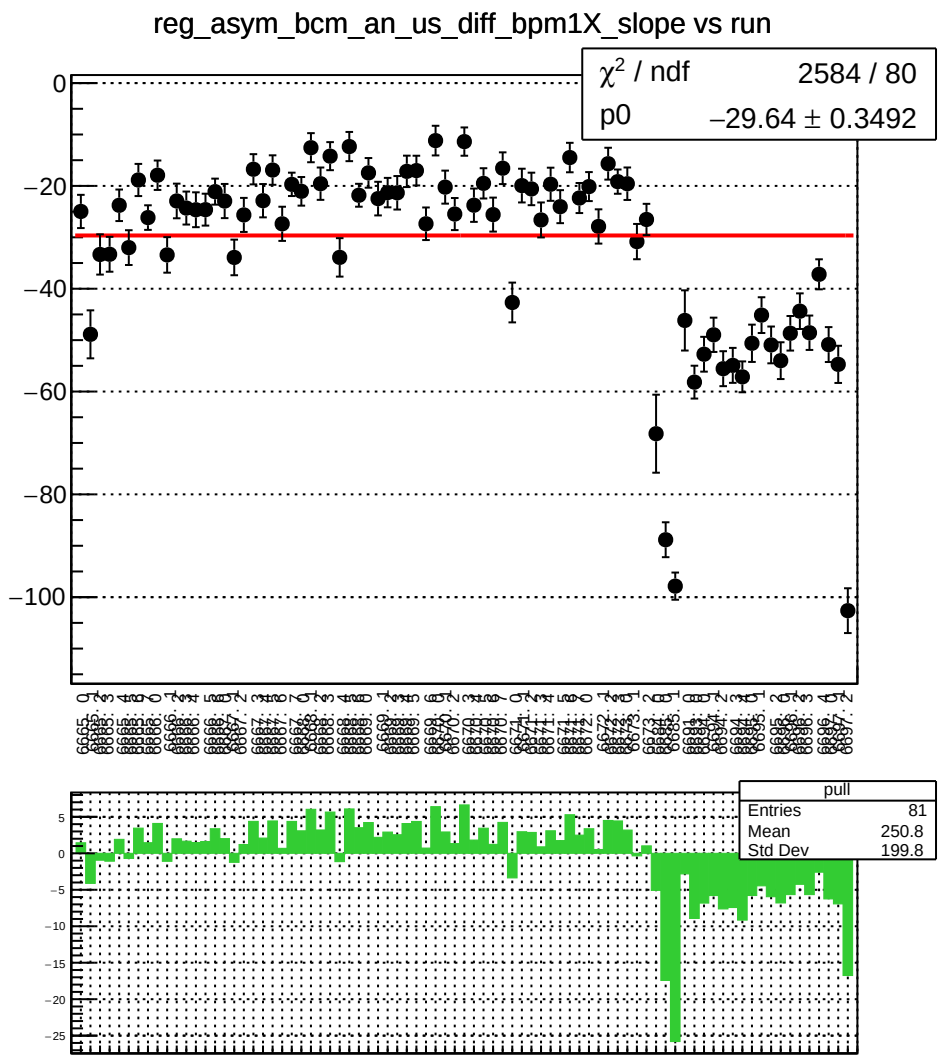

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 2261 / 80
p0 31.36 ± 0.3673
pull
Entries 81
Mean 887.2
Std Dev 837.1

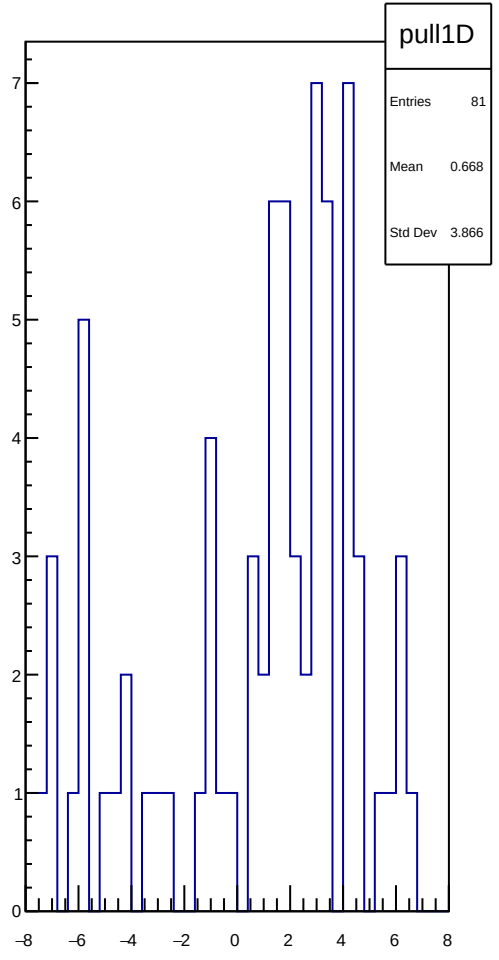

pull1D
Entries 81
Mean −0.6548
Std Dev 3.746

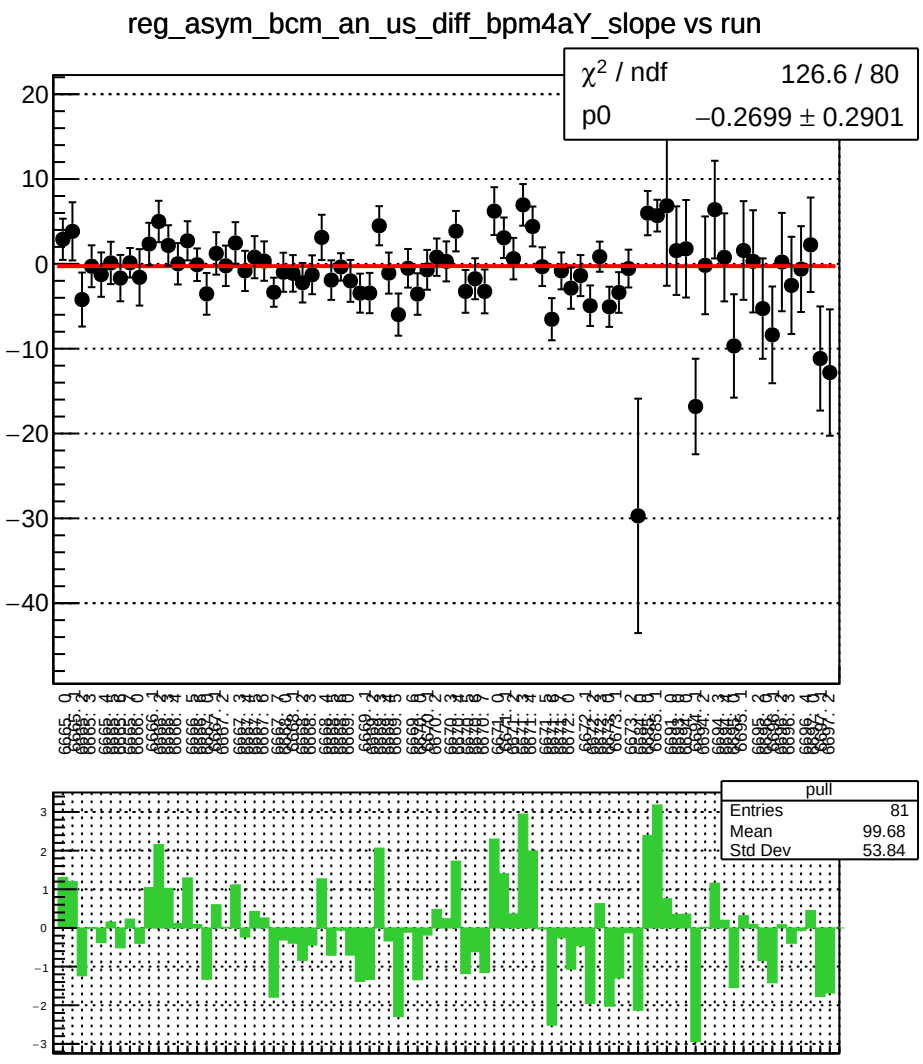

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 154.5 / 80
p0 −0.2774 ± 0.3299
pull
Entries 81
Mean 455.3
Std Dev 421.3

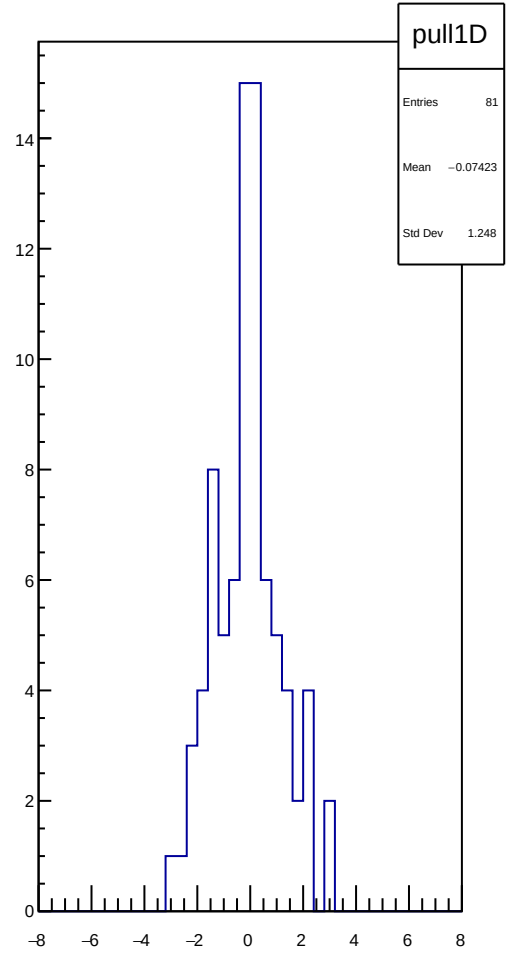

pull1D
Entries 81
Mean 0.007264
Std Dev 1.381

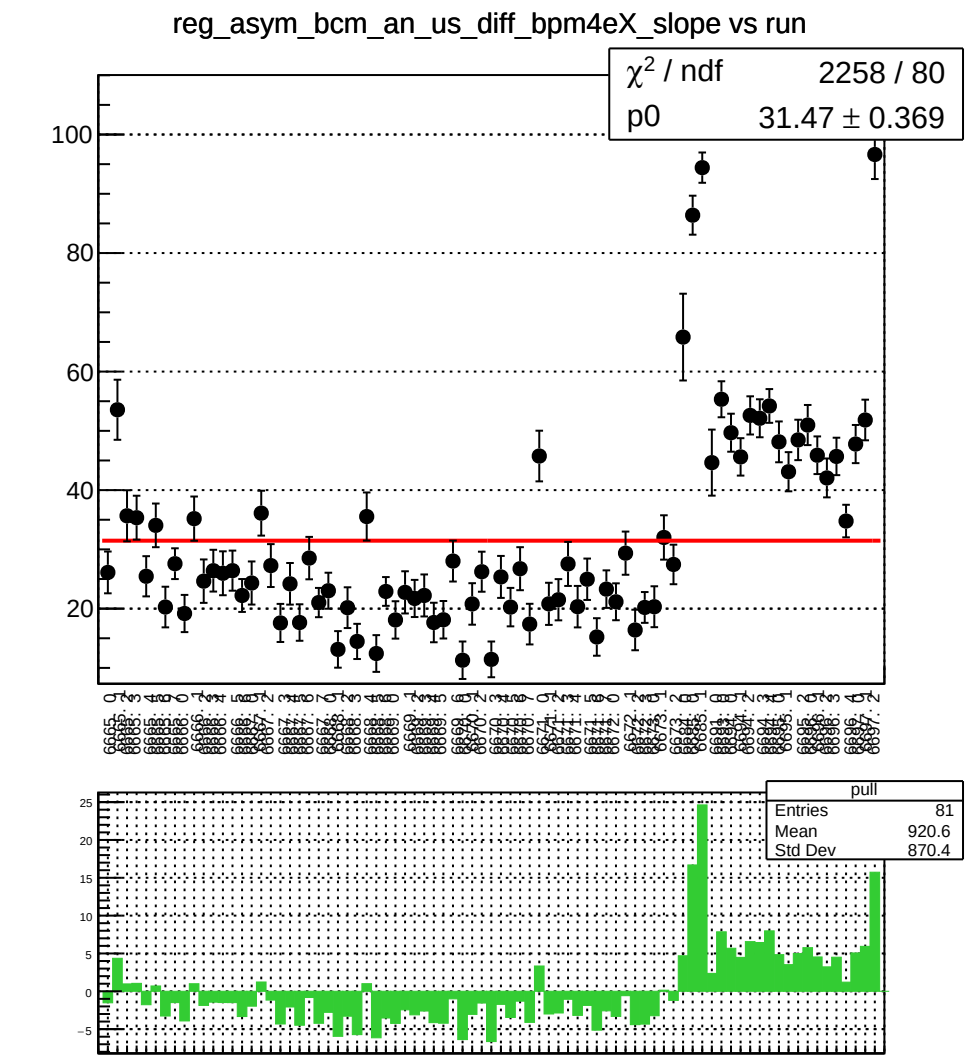

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 151 / 80
p0 0.5235 ± 0.01438
pull
Entries 81
Mean −34.87
Std Dev 68.74
pull1D
Entries 81
Mean 0.08543
Std Dev 1.363

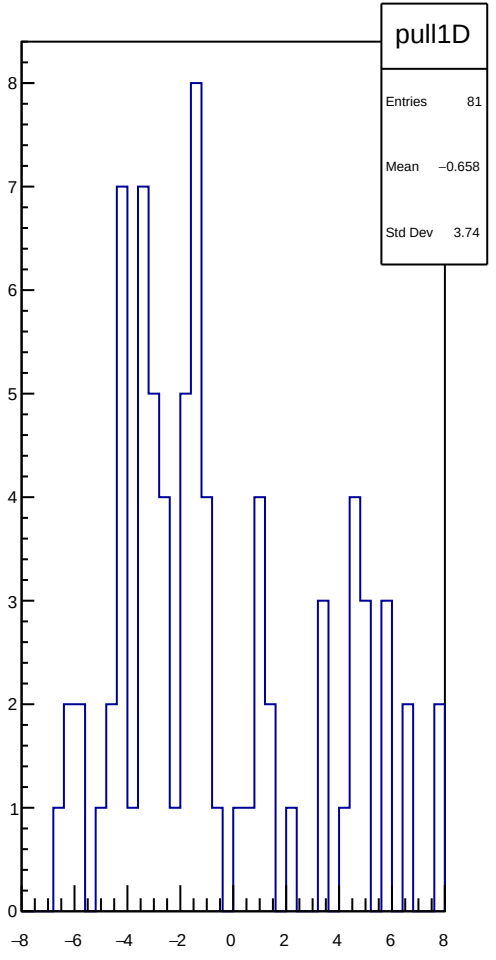

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 2584 / 80
p0 −29.64 ± 0.3492
pull
Entries 81
Mean 250.8
Std Dev 199.8

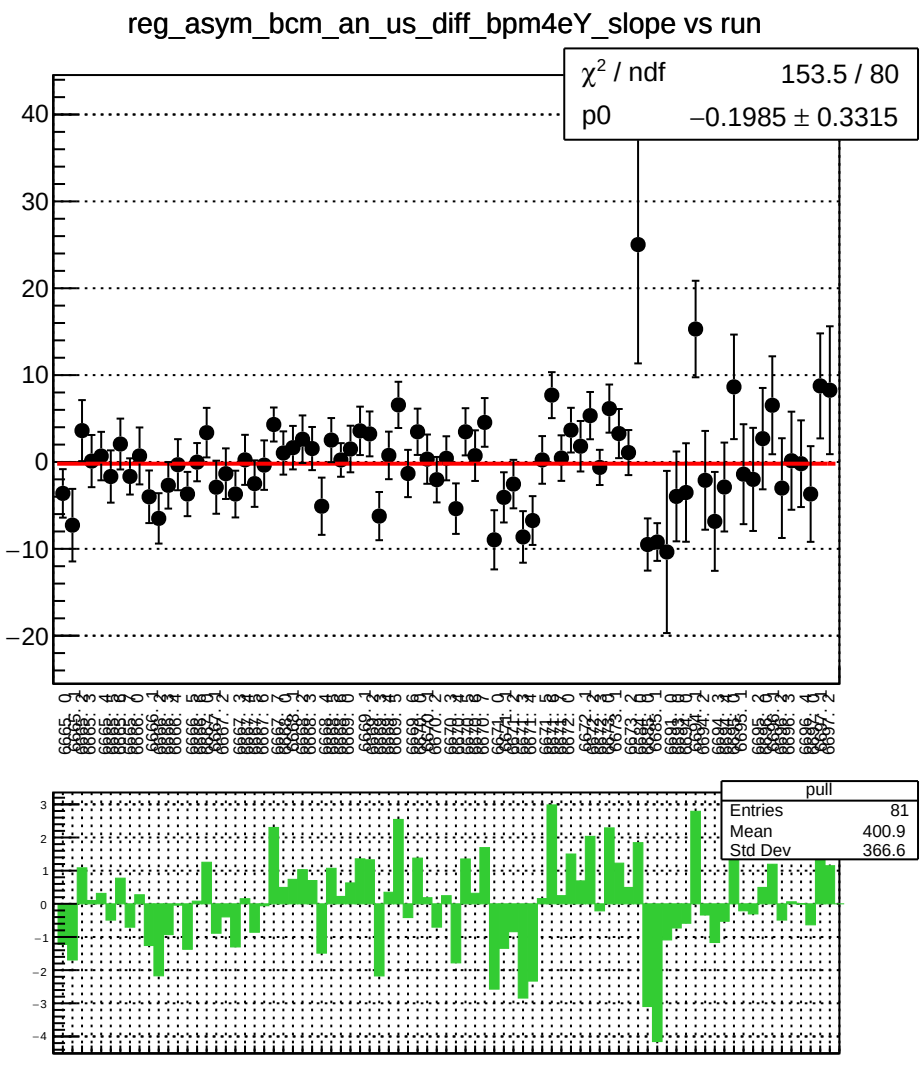

pull1D
Entries 81
Mean 0.668
Std Dev 3.866

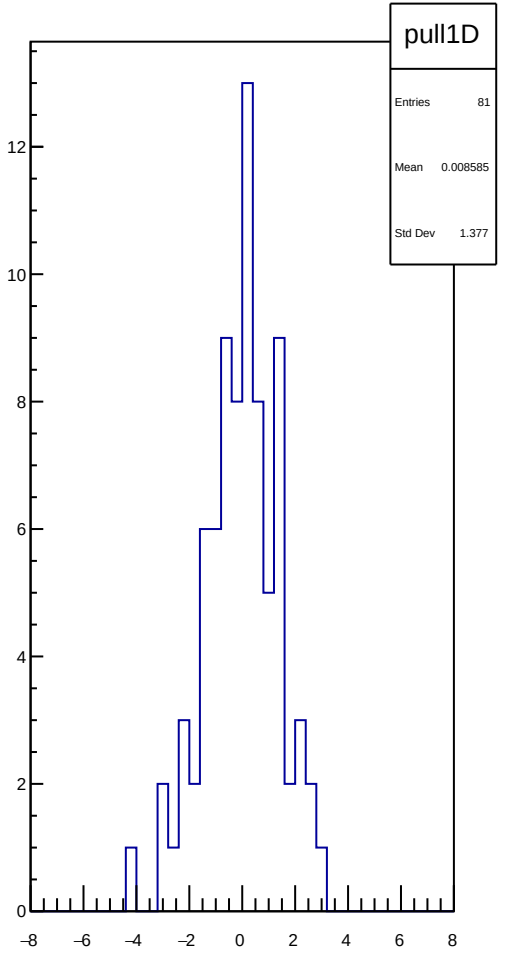

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 126.6 / 80
p0 −0.2699 ± 0.2901
pull
Entries 81
Mean 99.68
Std Dev 53.84

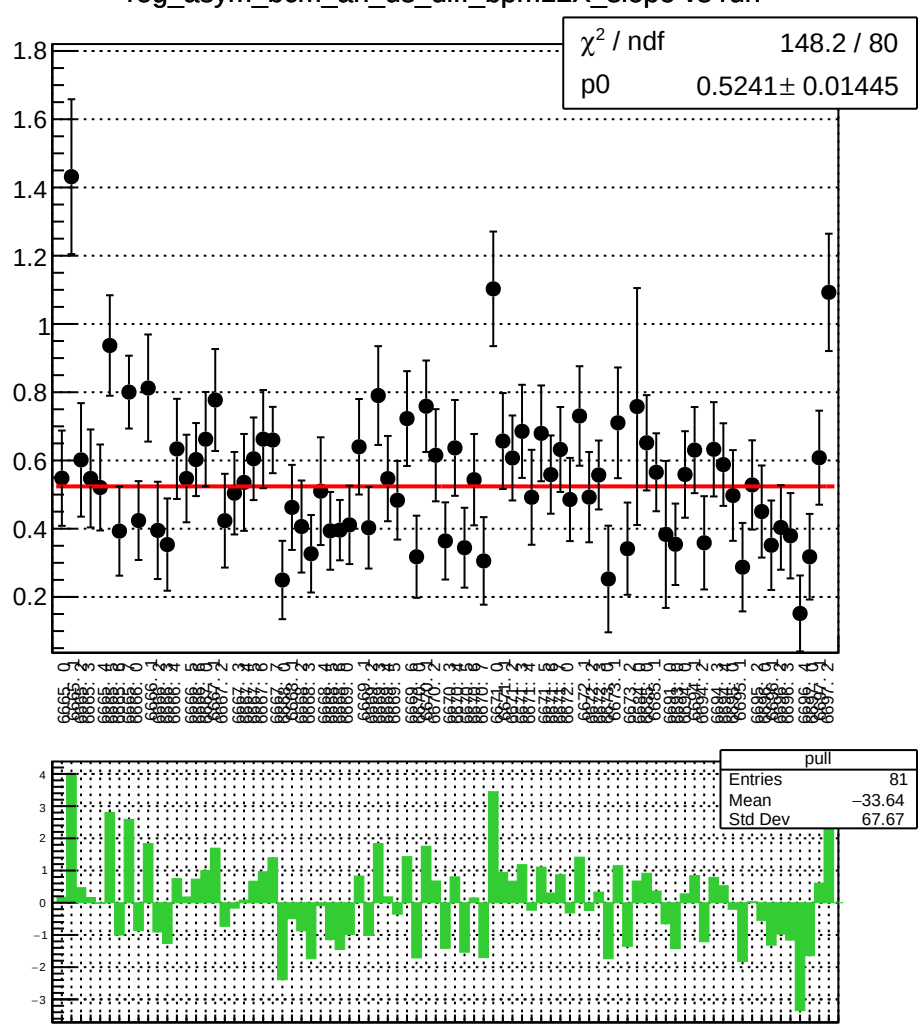

pull1D
Entries 81
Mean −0.07423
Std Dev 1.248

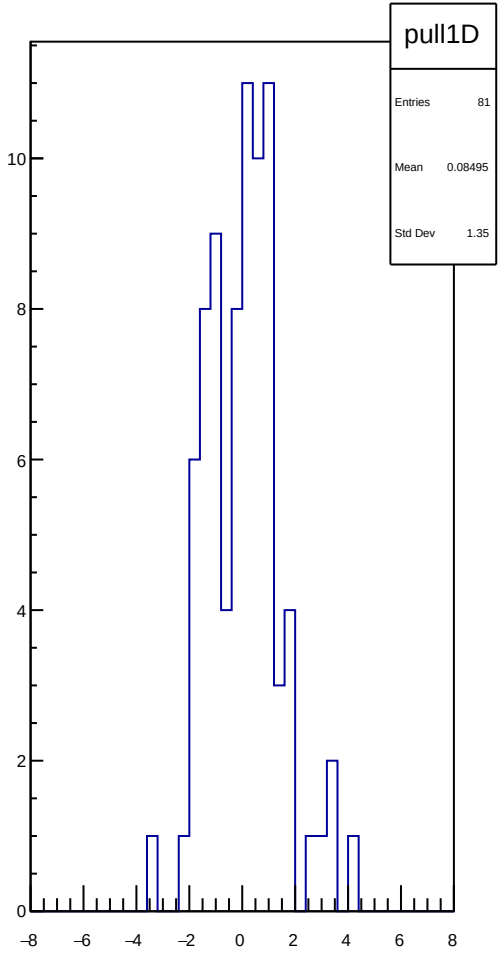

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 2258 / 80
p0 31.47 ± 0.369
pull
Entries 81
Mean 920.6
Std Dev 870.4

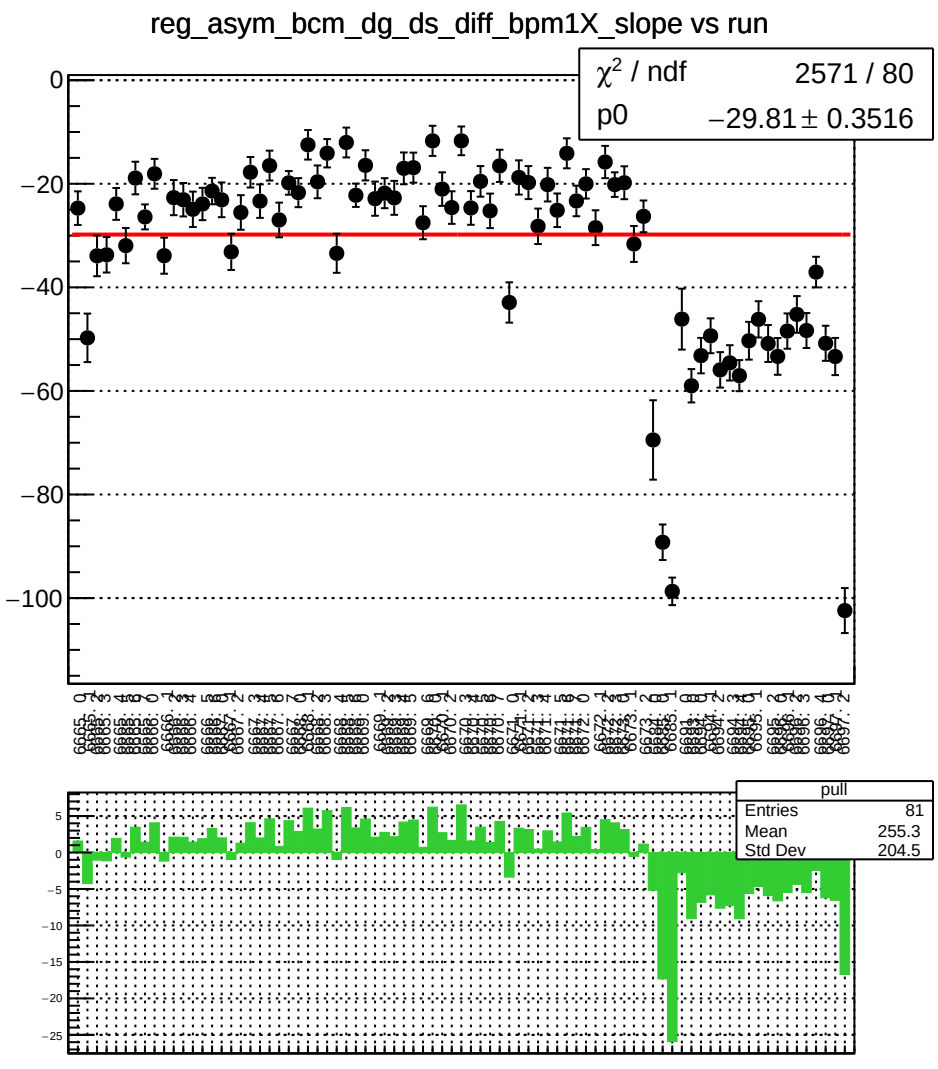

pull1D
Entries 81
Mean −0.658
Std Dev 3.74

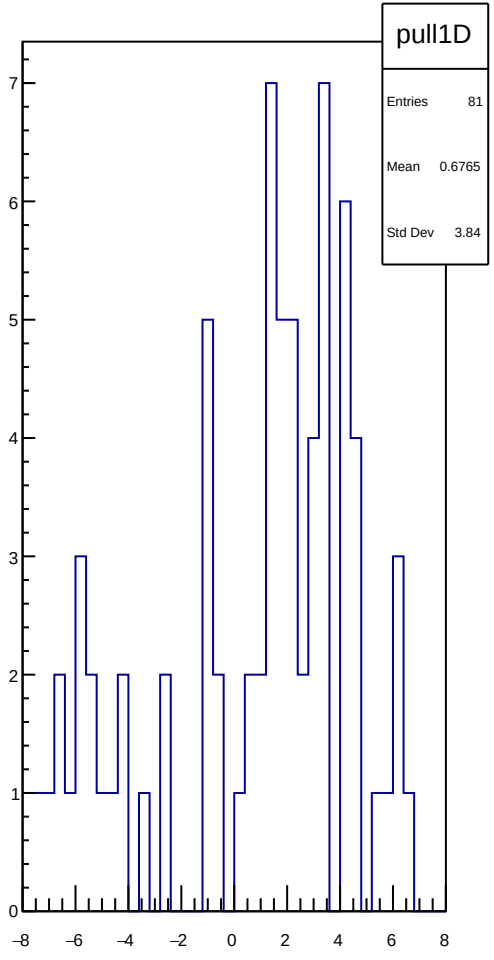

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 153.5 / 80
p0 −0.1985 ± 0.3315
pull
Entries 81
Mean 400.9
Std Dev 366.6

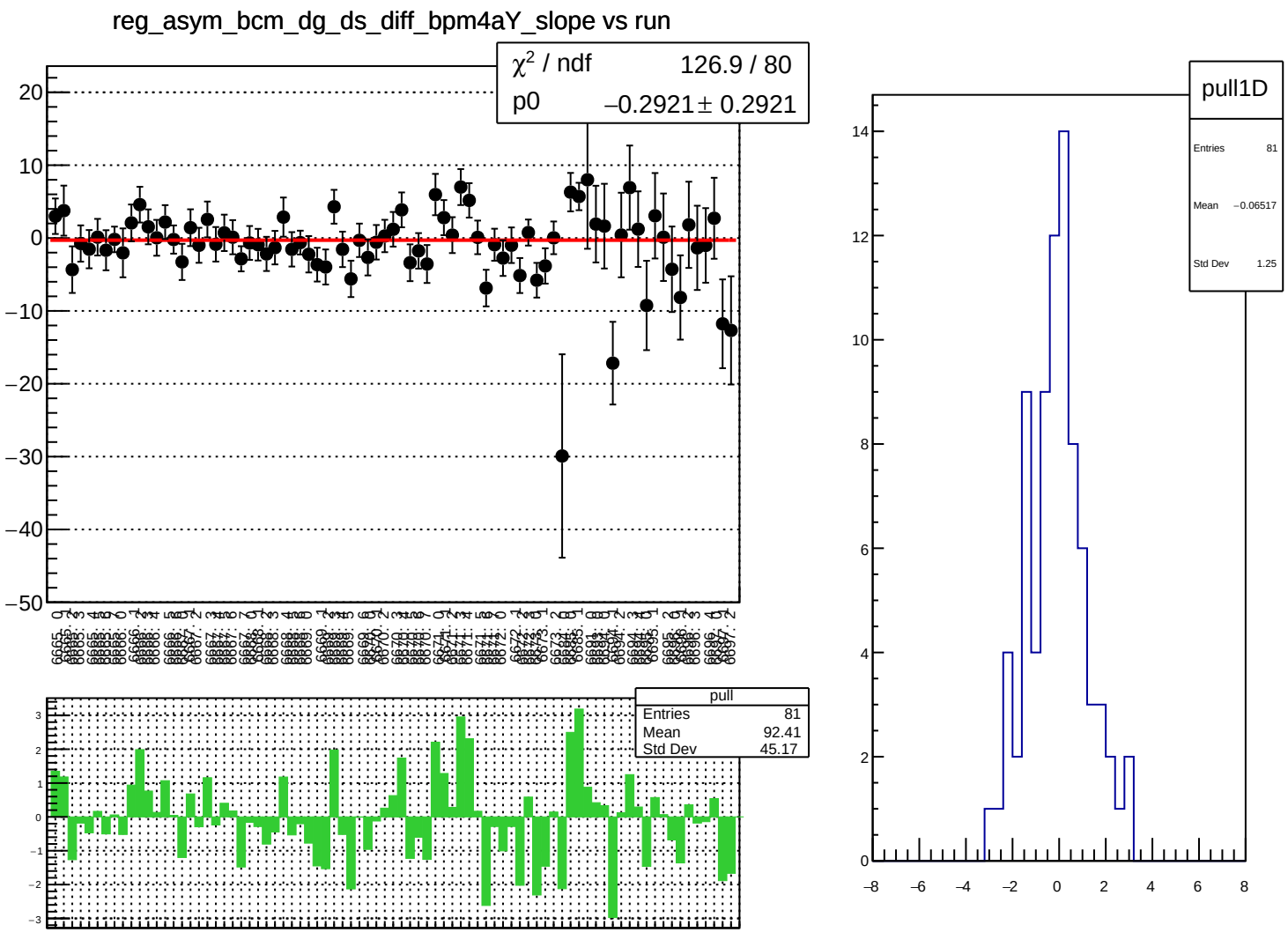

pull1D
Entries 81
Mean 0.008585
Std Dev 1.377

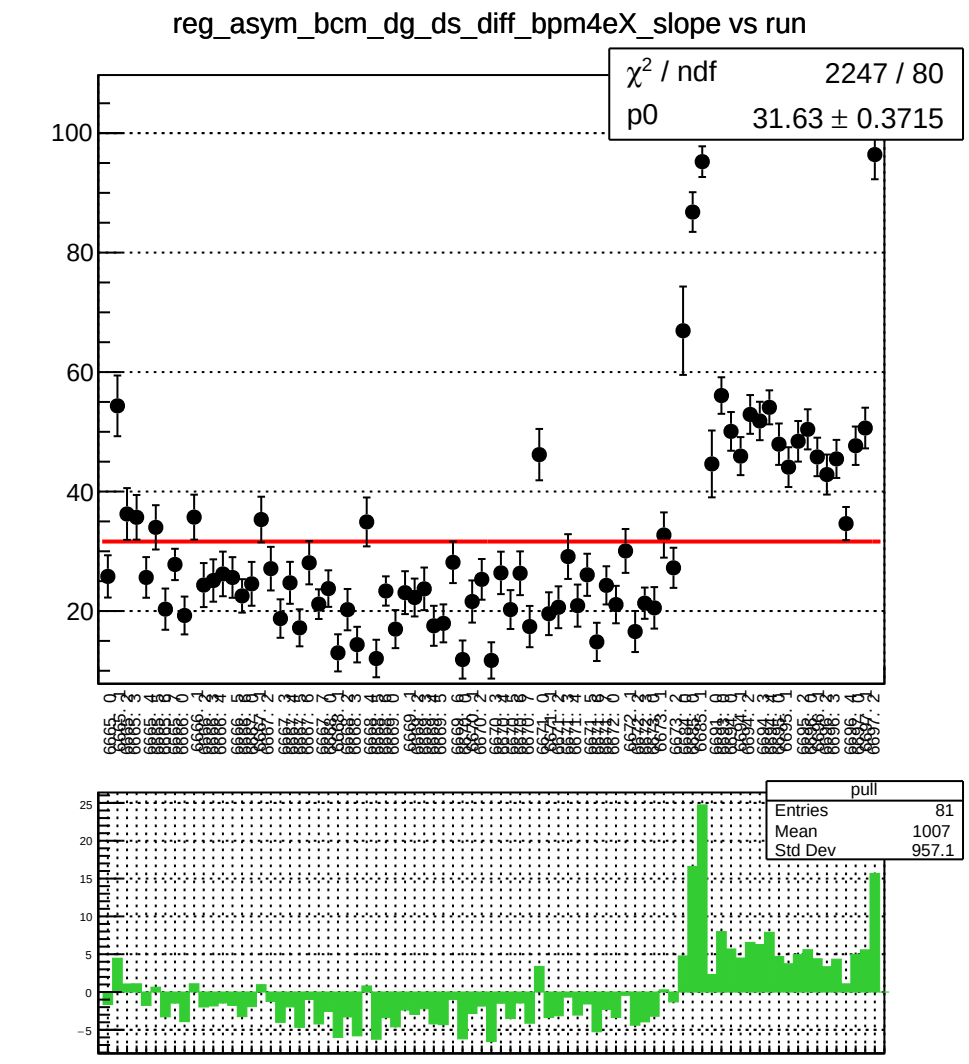

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 148.2 / 80
p0 0.5241± 0.01445
pull
Entries 81
Mean −33.64
Std Dev 67.67

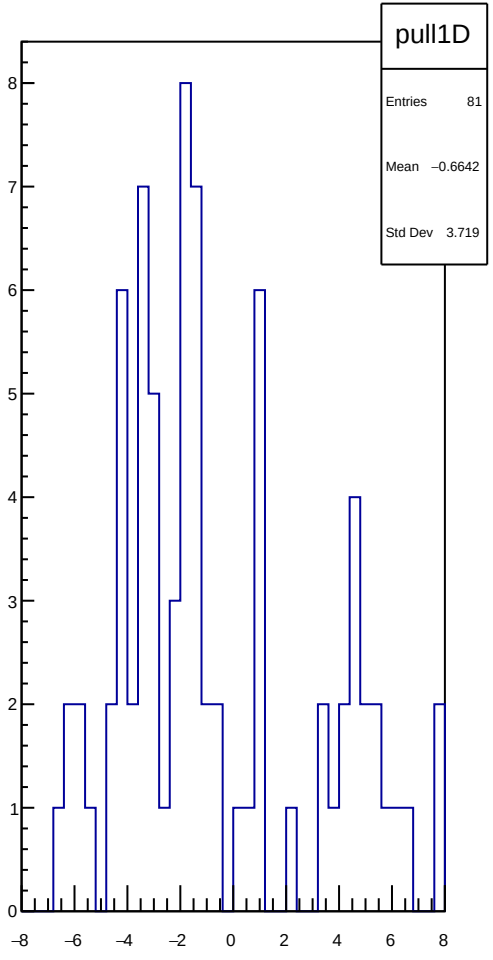

pull1D
Entries 81
Mean 0.08495
Std Dev 1.35

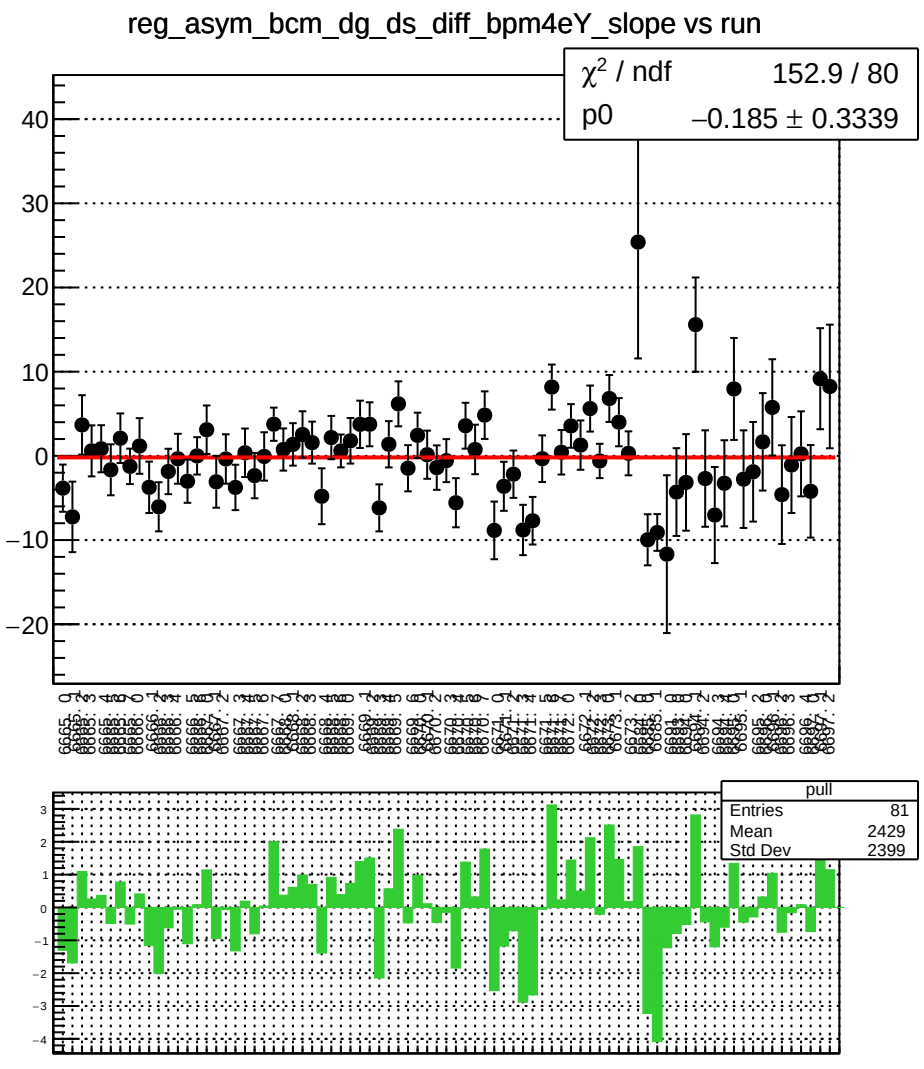

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 2571 / 80
p0 −29.81 ± 0.3516
pull
Entries 81
Mean 255.3
Std Dev 204.5

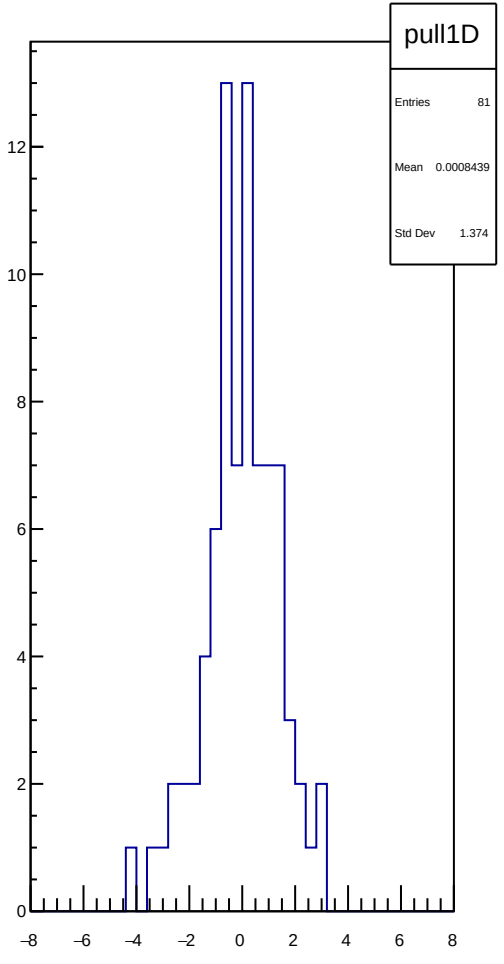

pull1D
Entries 81
Mean 0.6765
Std Dev 3.84

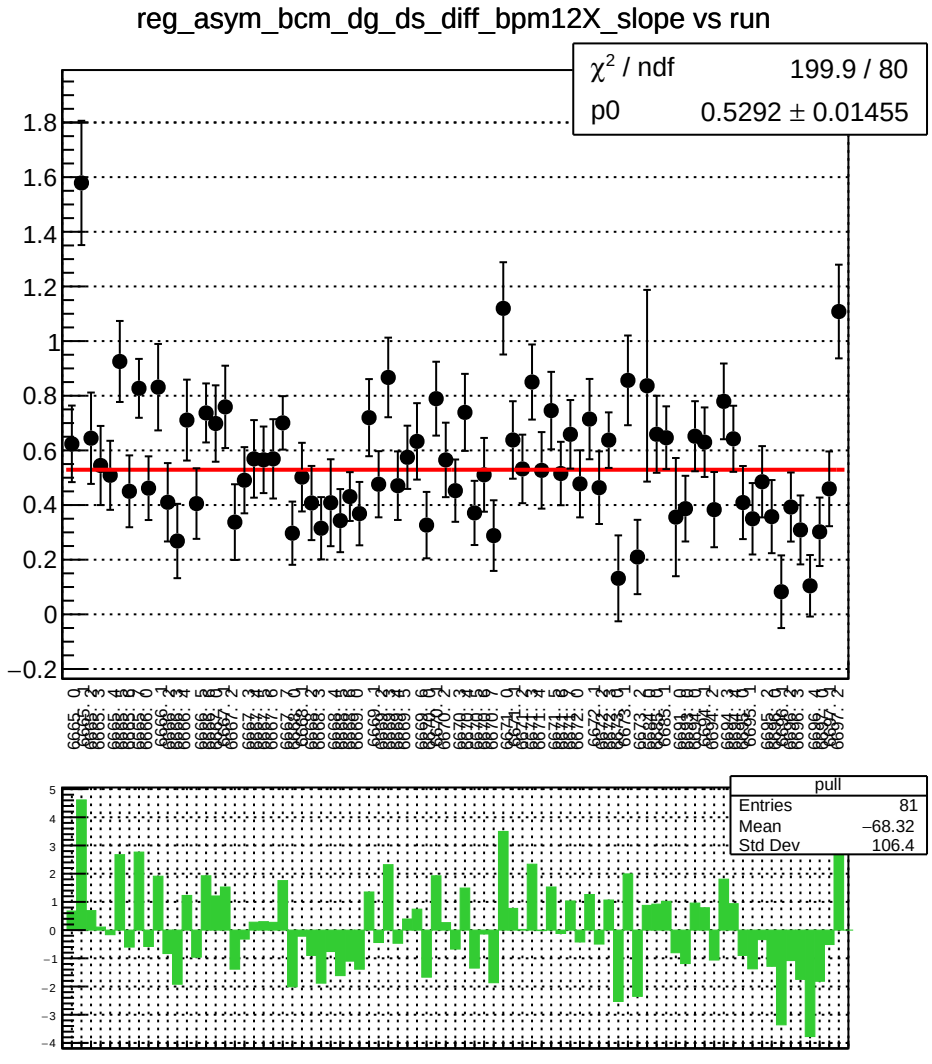

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 126.9 / 80
p0 −0.2921 ± 0.2921
pull
Entries 81
Mean 92.41
Std Dev 45.17
pull1D
Entries 81
Mean −0.06517
Std Dev 1.25

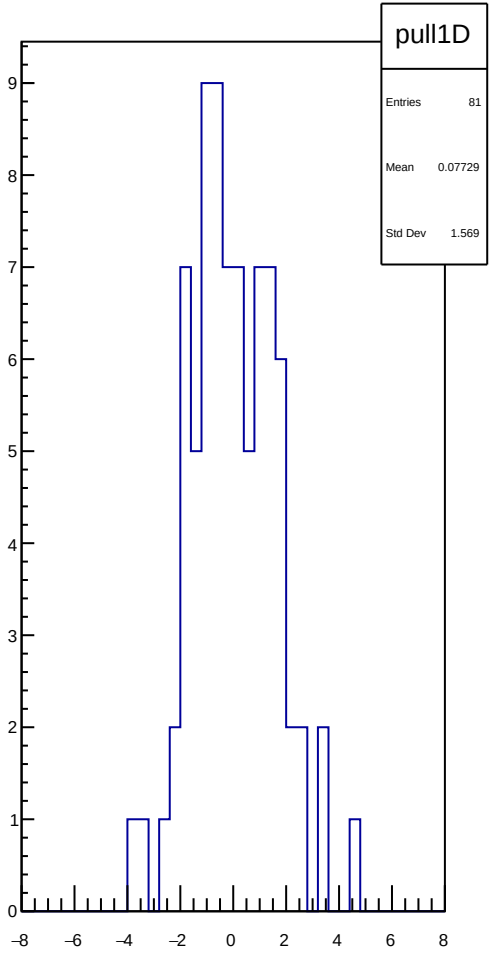

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 2247 / 80
p0 31.63 ± 0.3715
pull
Entries 81
Mean 1007
Std Dev 957.1

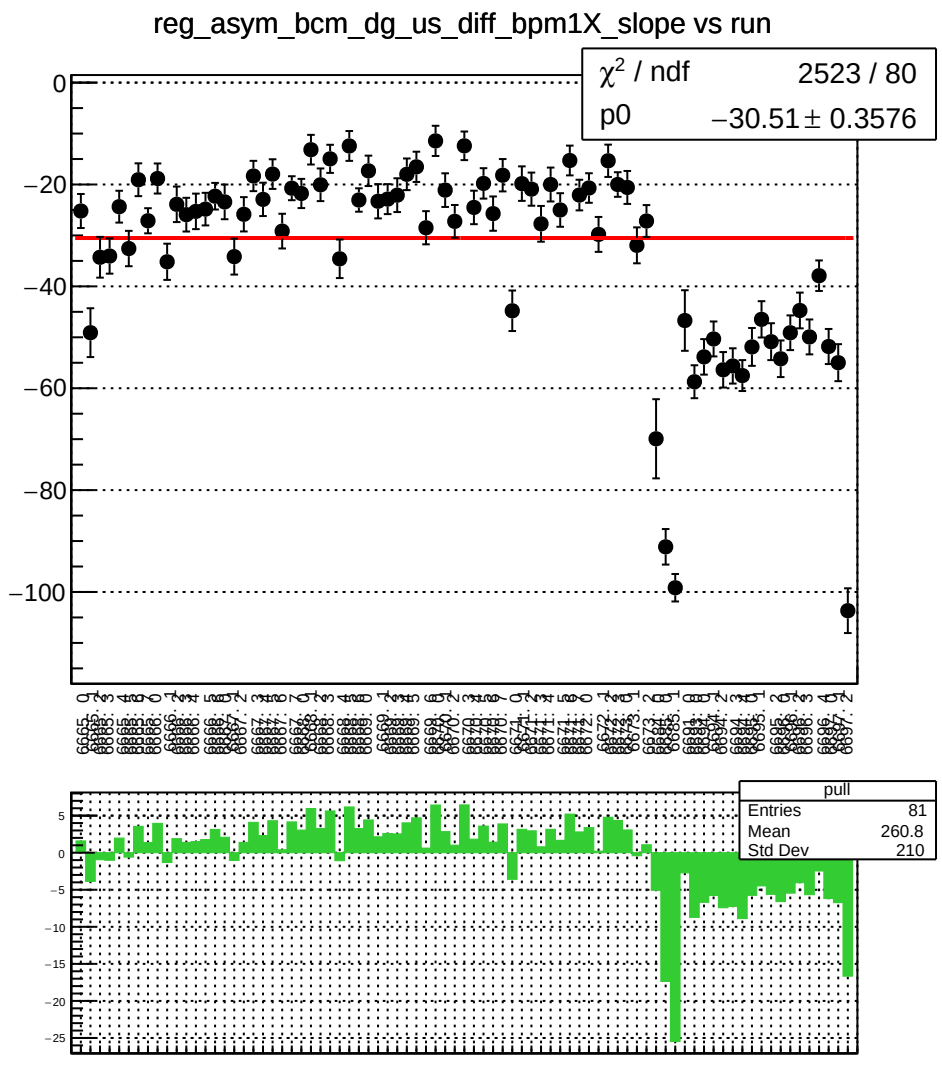

pull1D
Entries 81
Mean −0.6642
Std Dev 3.719

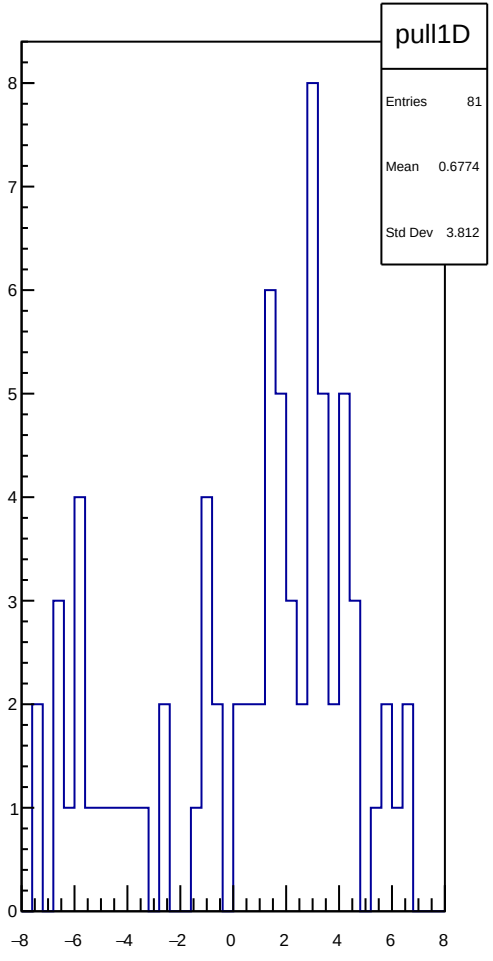

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 152.9 / 80
p0 −0.185 ± 0.3339
pull
Entries 81
Mean 2429
Std Dev 2399

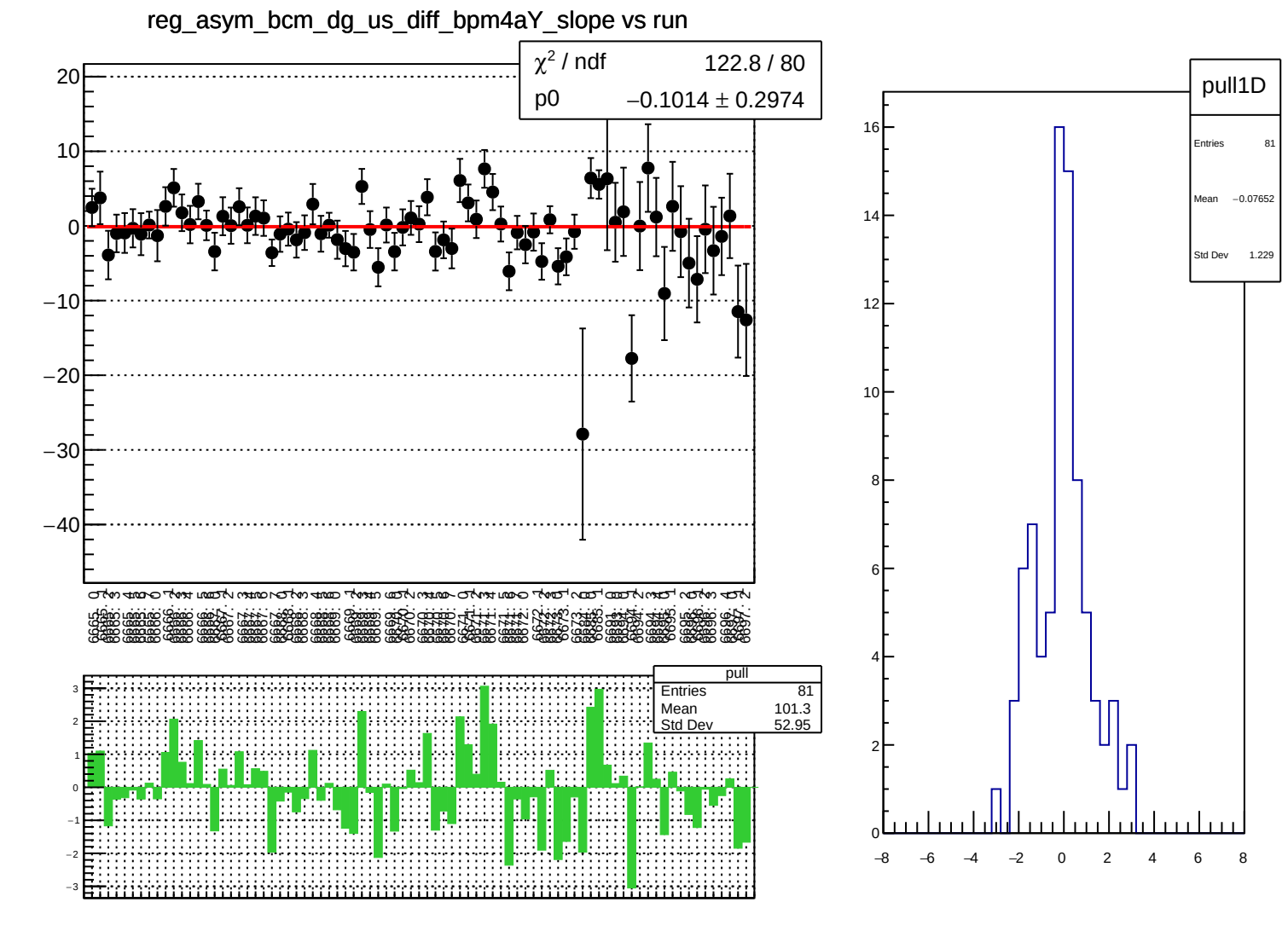

pull1D
Entries 81
Mean 0.0008439
Std Dev 1.374

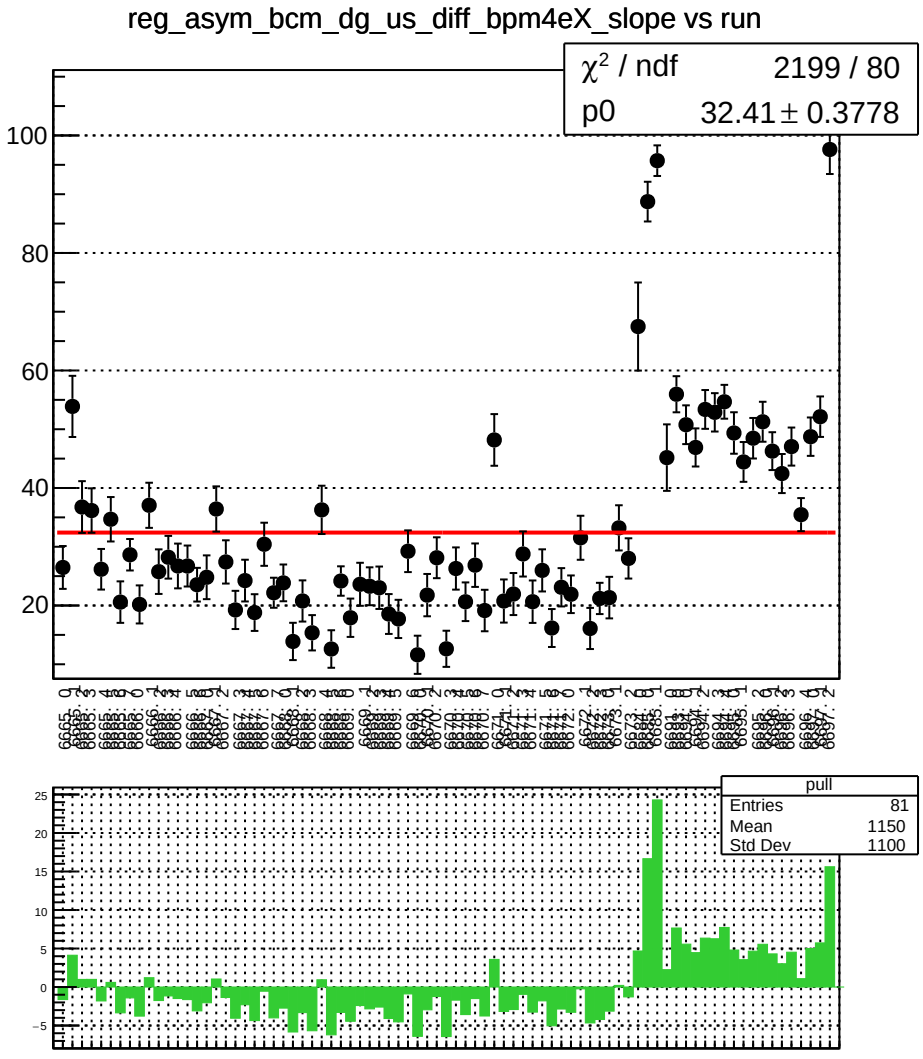

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 199.9 / 80
p0 0.5292 ± 0.01455
pull
Entries 81
Mean −68.32
Std Dev 106.4

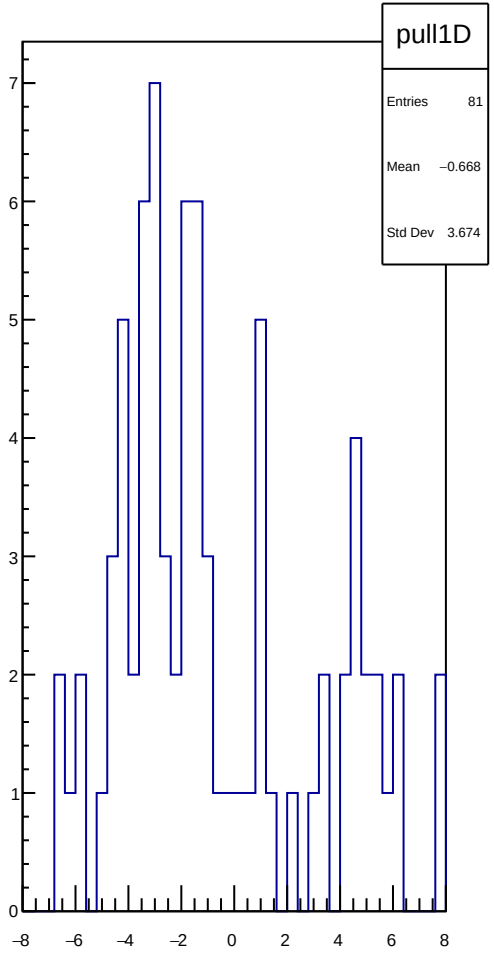

pull1D
Entries 81
Mean 0.07729
Std Dev 1.569

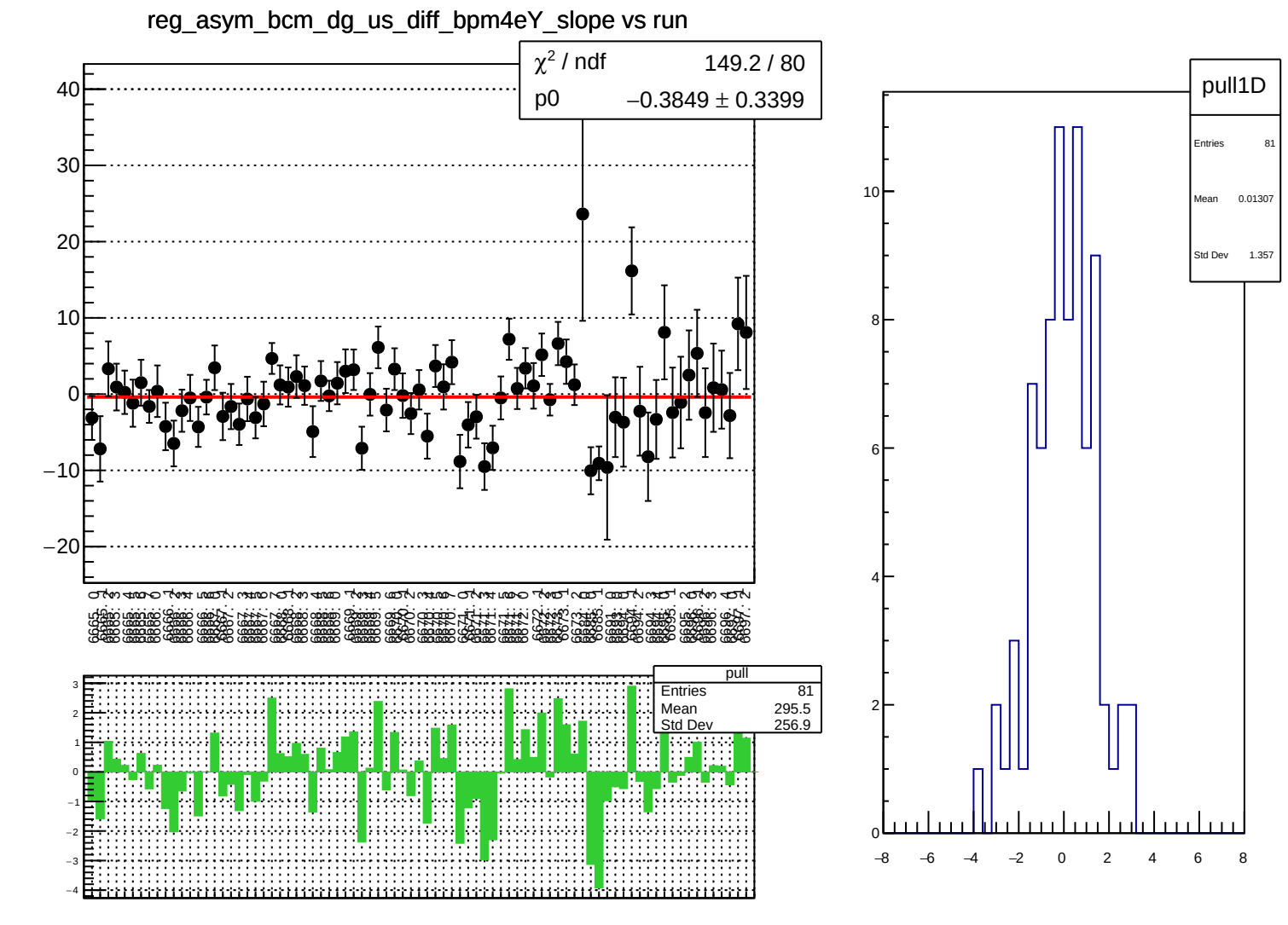

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 2523 / 80
p0 −30.51 ± 0.3576
pull
Entries 81
Mean 260.8
Std Dev 210

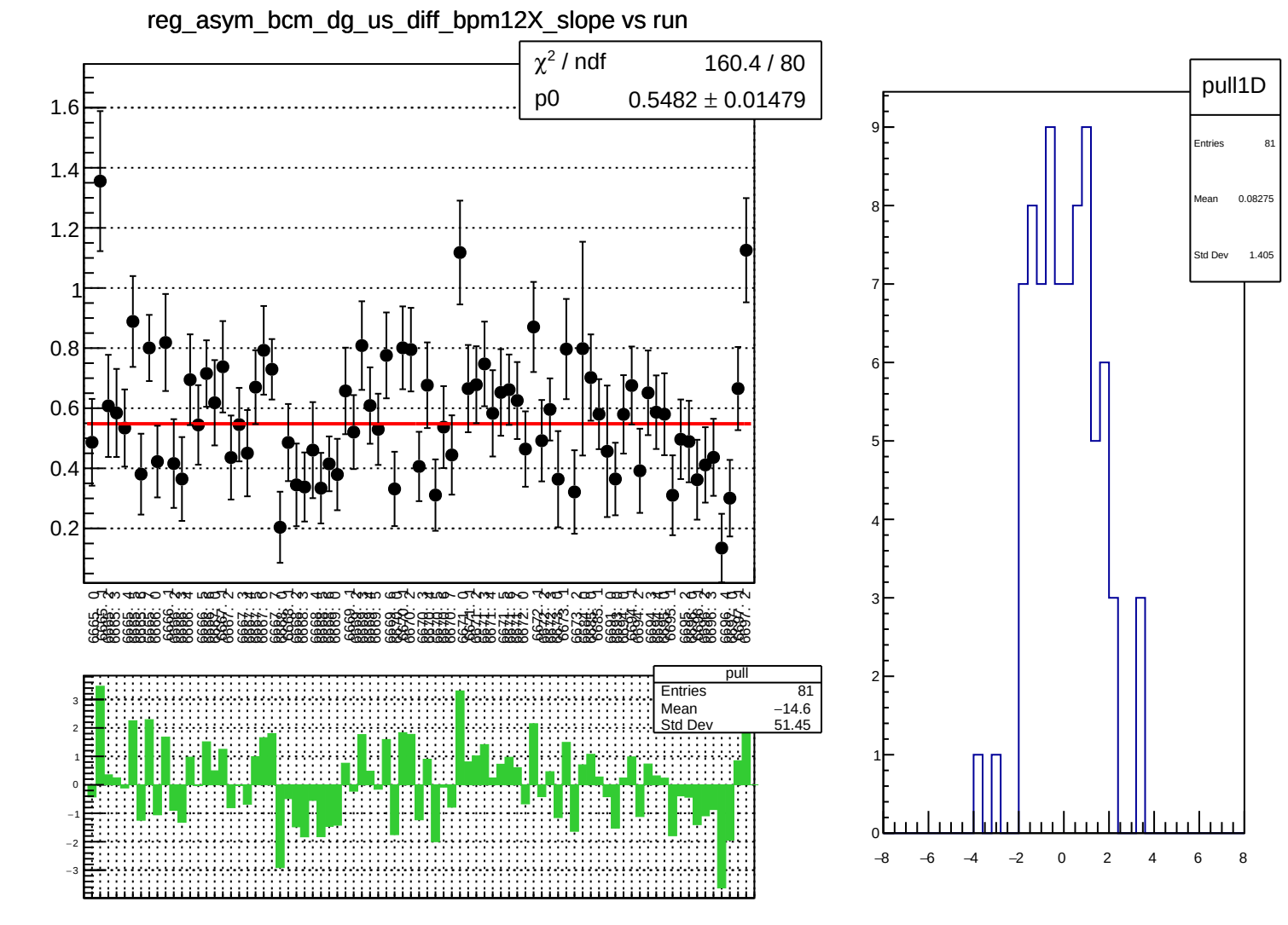

pull1D
Entries 81
Mean 0.6774
Std Dev 3.812

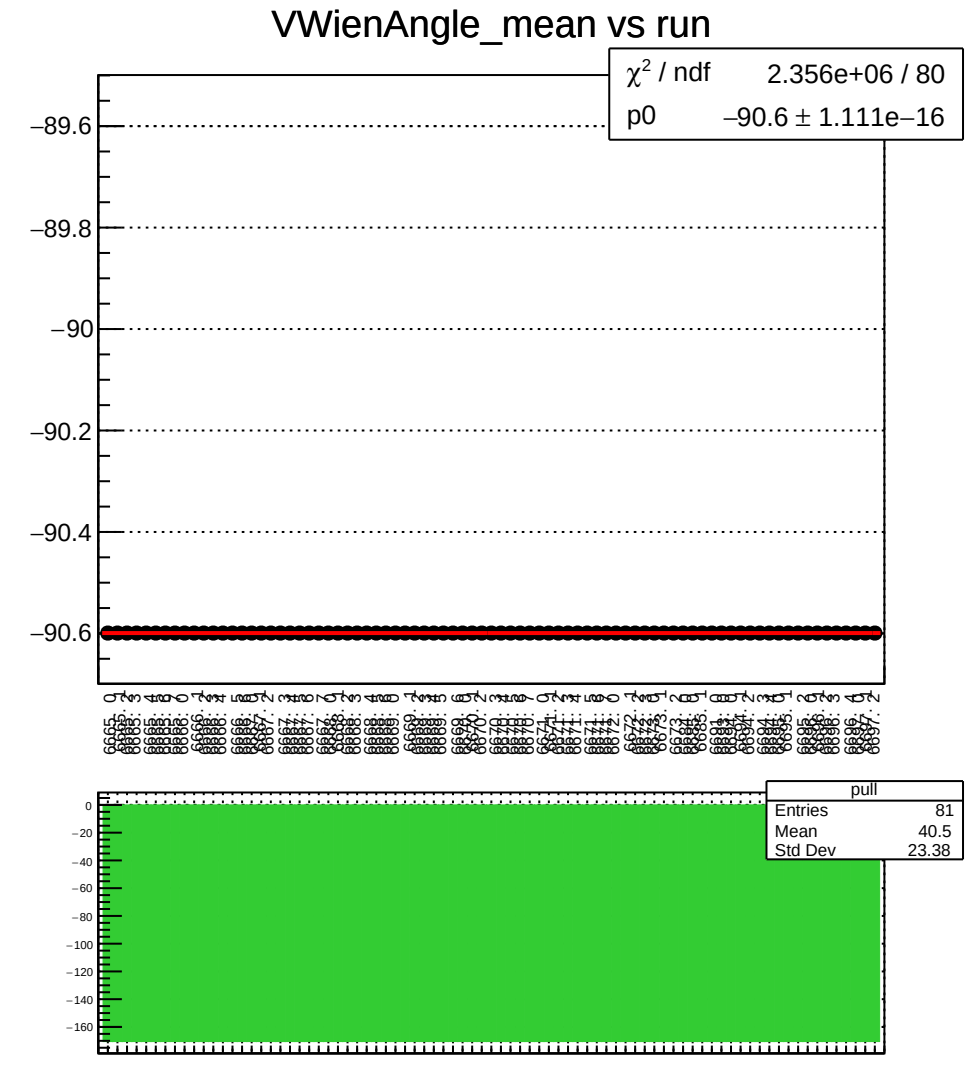

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 122.8 / 80
p0 −0.1014 ± 0.2974
pull
Entries 81
Mean 101.3
Std Dev 52.95
pull1D
Entries 81
Mean −0.07652
Std Dev 1.229

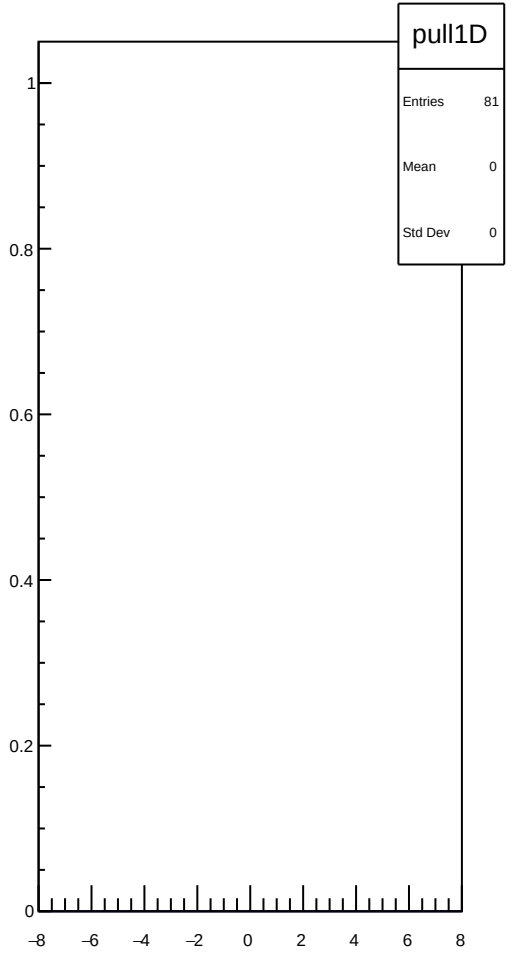

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 2199 / 80
p0 32.41 ± 0.3778
pull
Entries 81
Mean 1150
Std Dev 1100

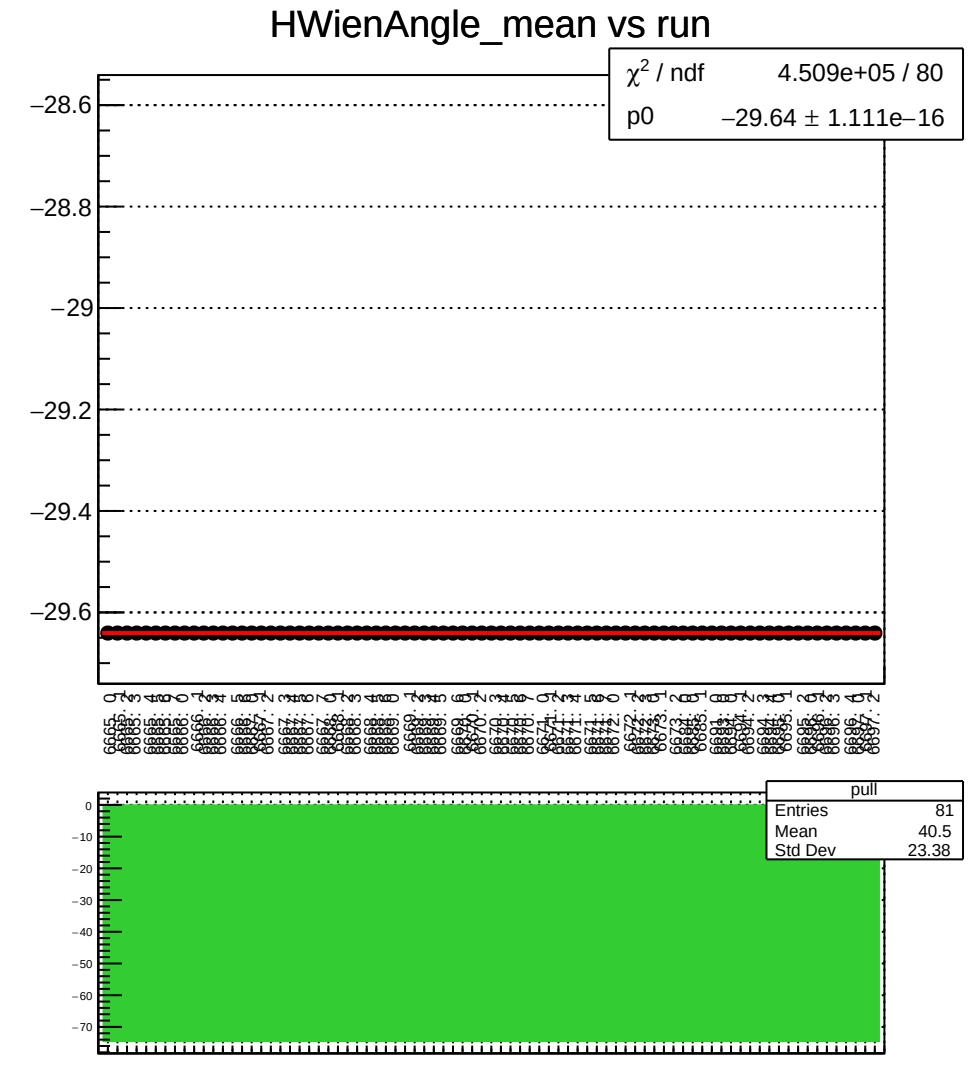

pull1D
Entries 81
Mean −0.668
Std Dev 3.674

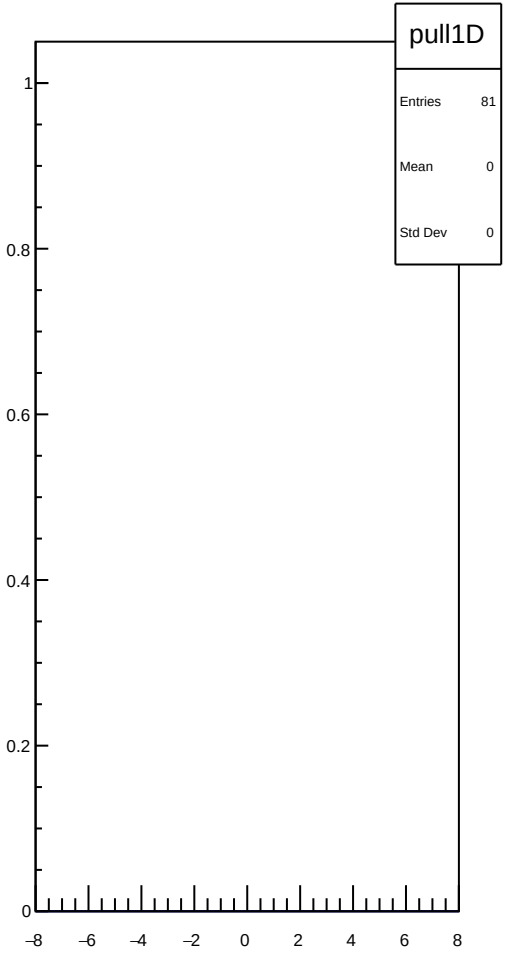

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 149.2 / 80
p0 −0.3849 ± 0.3399
pull
Entries 81
Mean 295.5
Std Dev 256.9
pull1D
Entries 81
Mean 0.01307
Std Dev 1.357

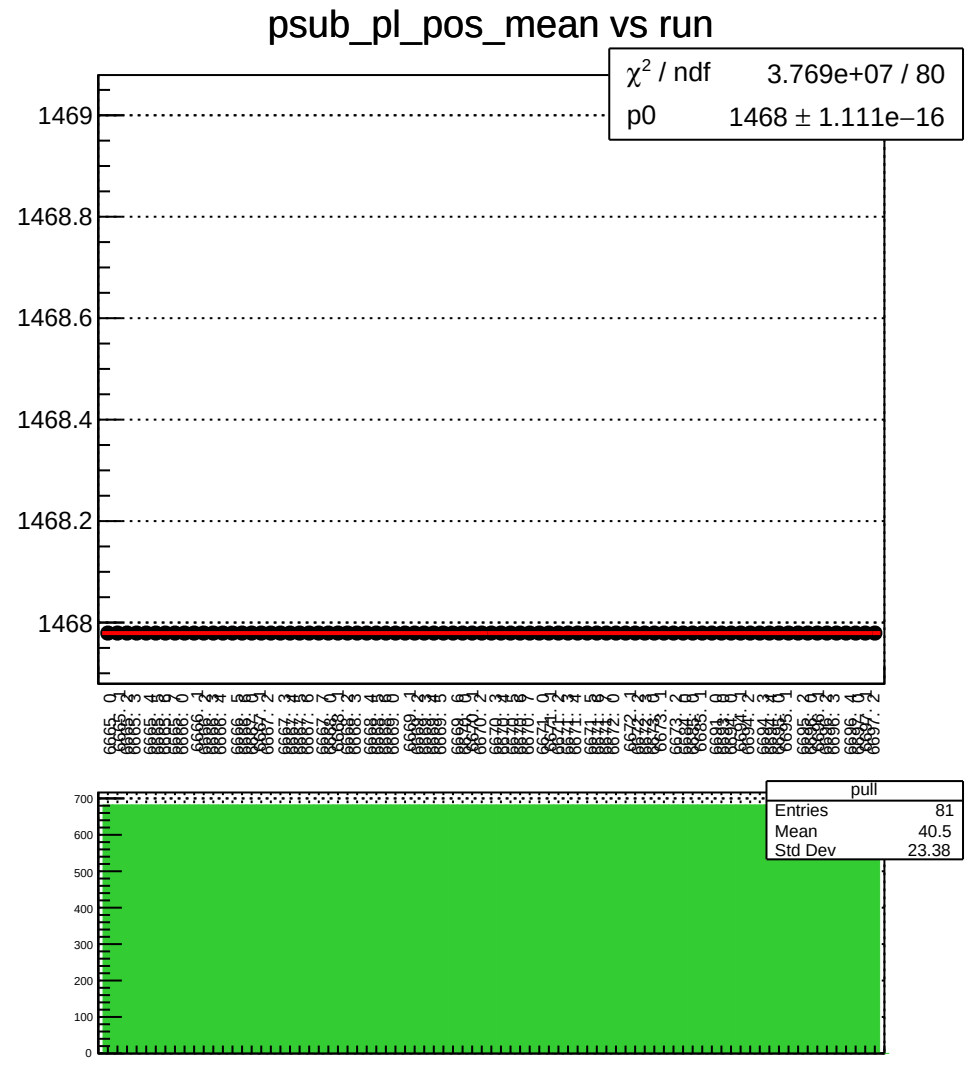

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 160.4 / 80
p0 0.5482 ± 0.01479
pull
Entries 81
Mean −14.6
Std Dev 51.45
pull1D
Entries 81
Mean 0.08275
Std Dev 1.405

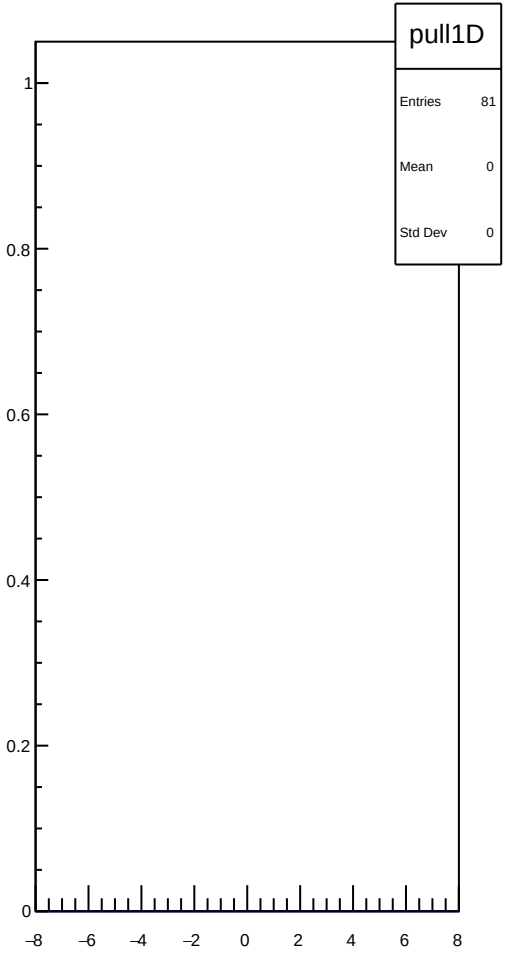

VWienAngle_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160

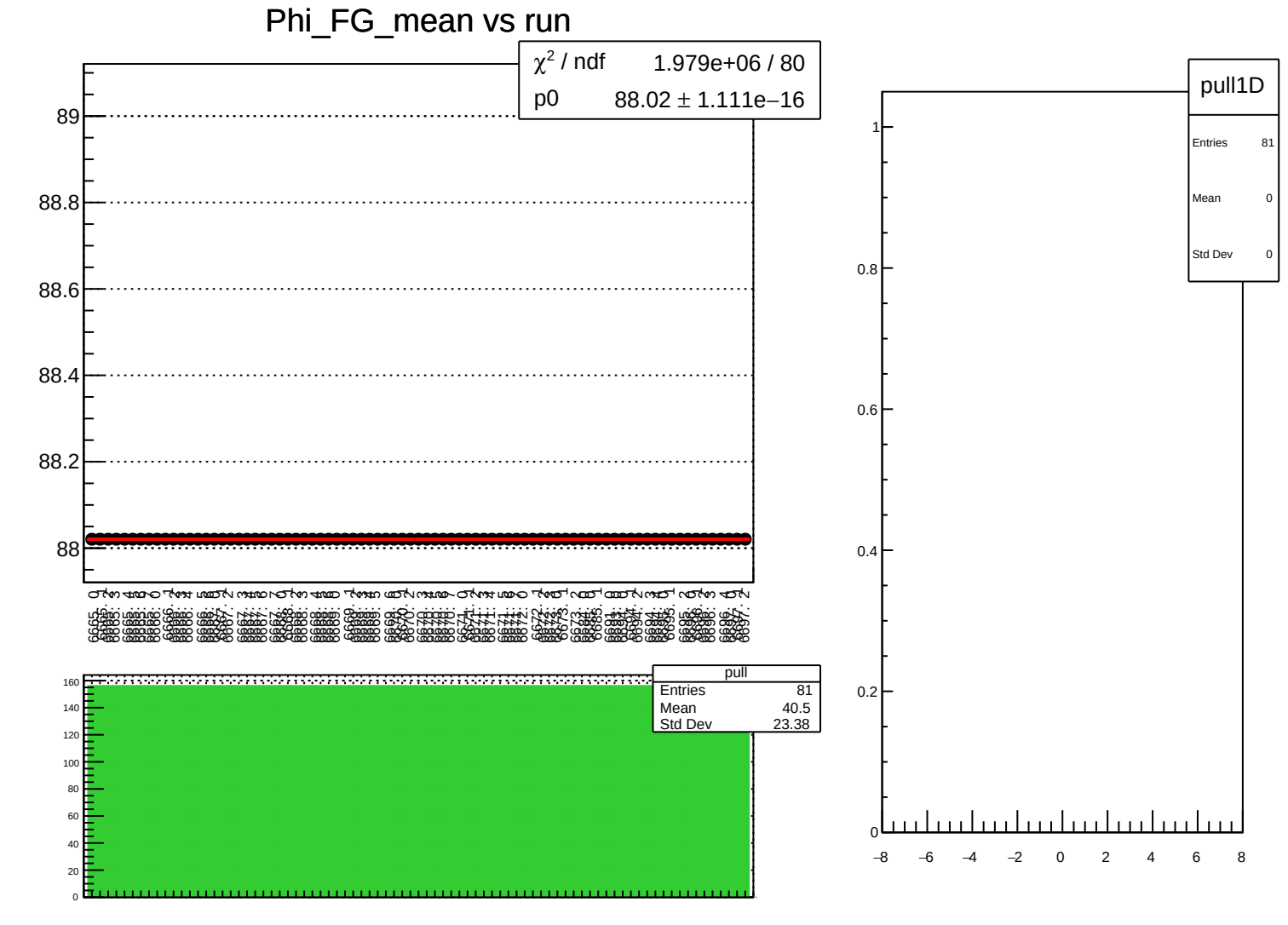

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

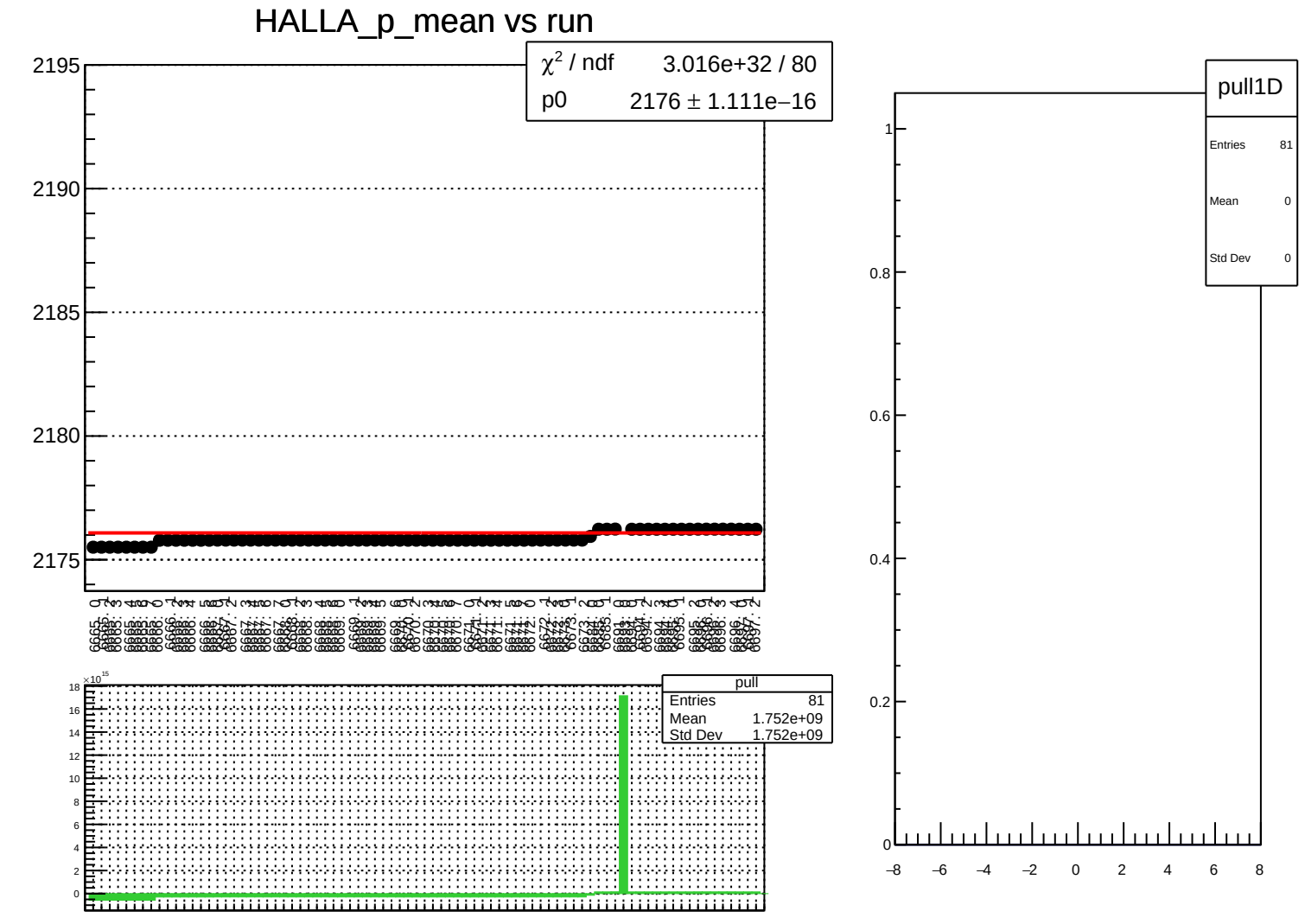

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70

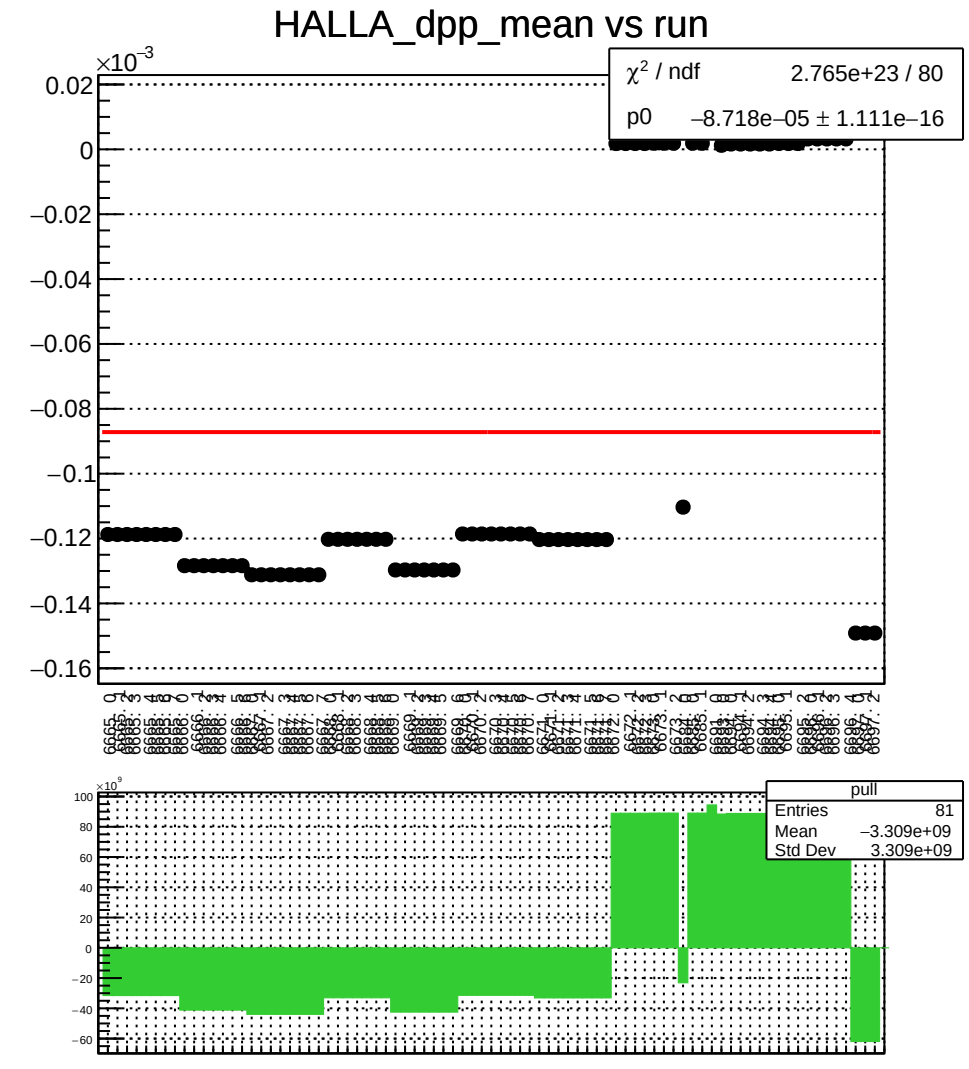

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

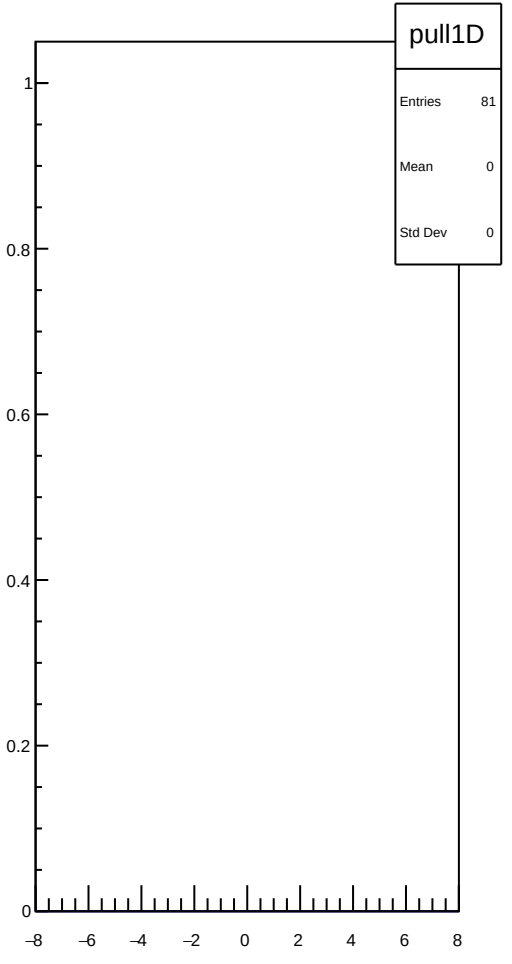

psub_pl_pos_mean vs run
χ² / ndf 3.769e+07 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
700
600
500
400
300
200
100
0

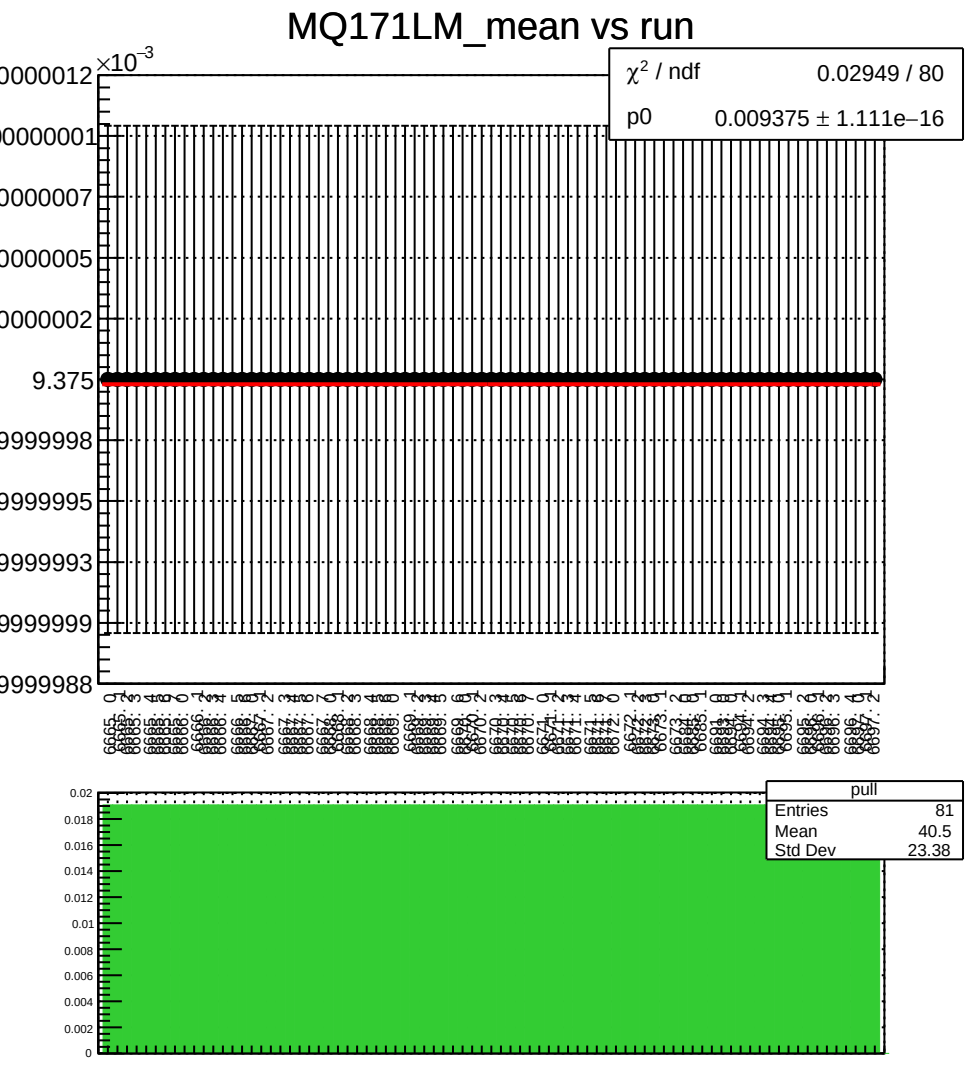

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

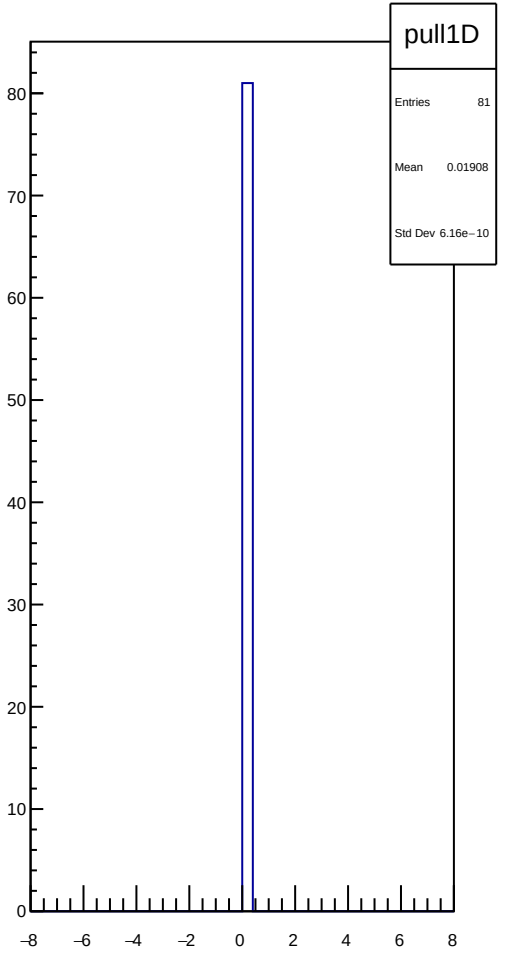

Phi_FG_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

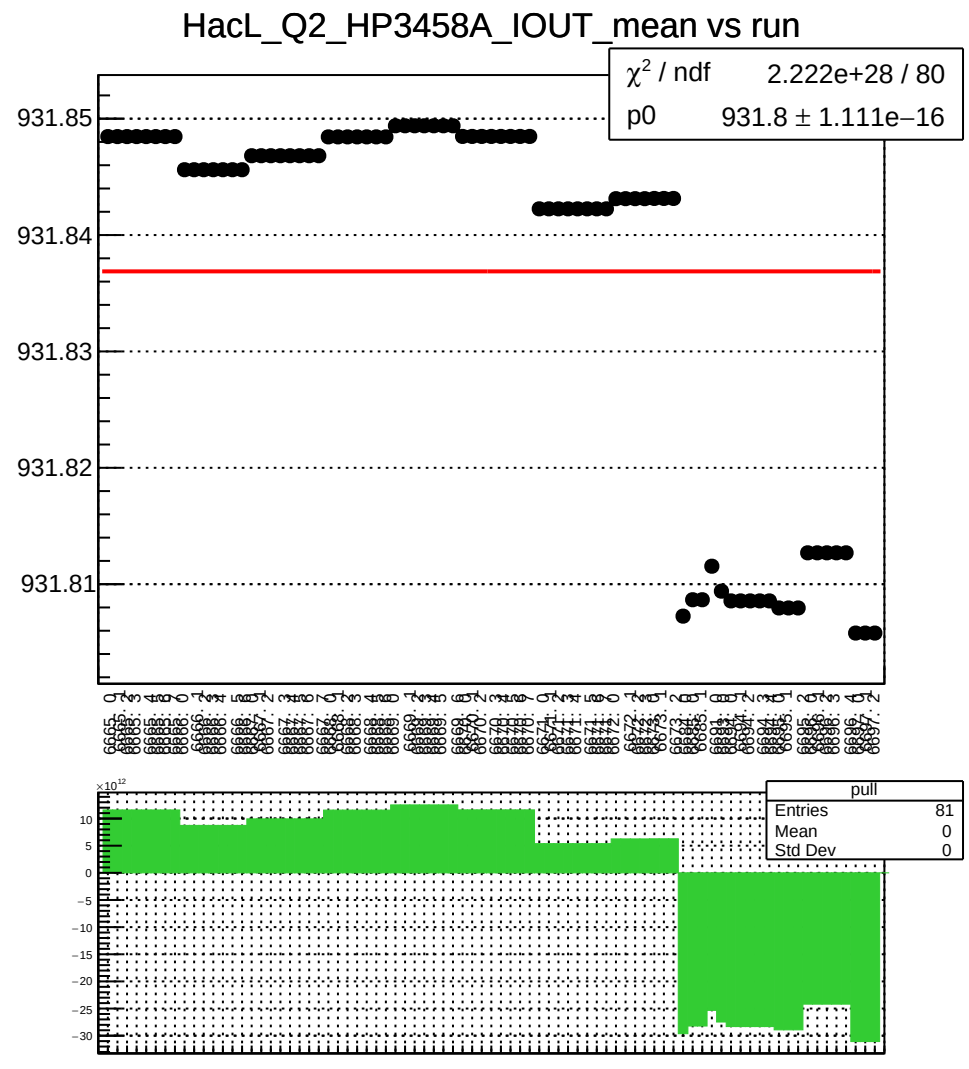

HALLA_p_mean vs run
χ² / ndf 3.016e+32 / 80
p0 2176 ± 1.111e−16
2195
2190
2185
2180
2175
pull
Entries 81
Mean 1.752e+09
Std Dev 1.752e+09
×10¹⁵
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

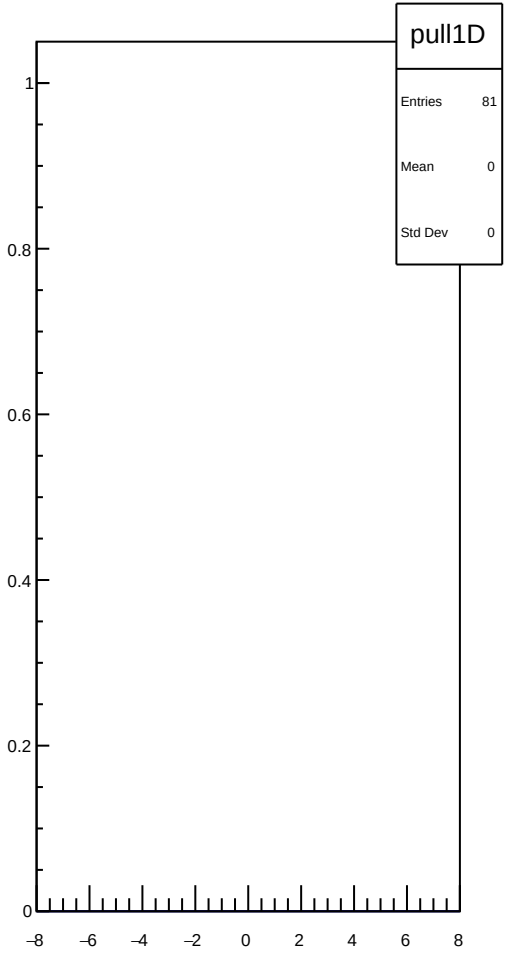

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 2.765e+23 / 80
p0 −8.718e−05 ± 1.111e−16
pull
Entries 81
Mean −3.309e+09
Std Dev 3.309e+09
×10⁹

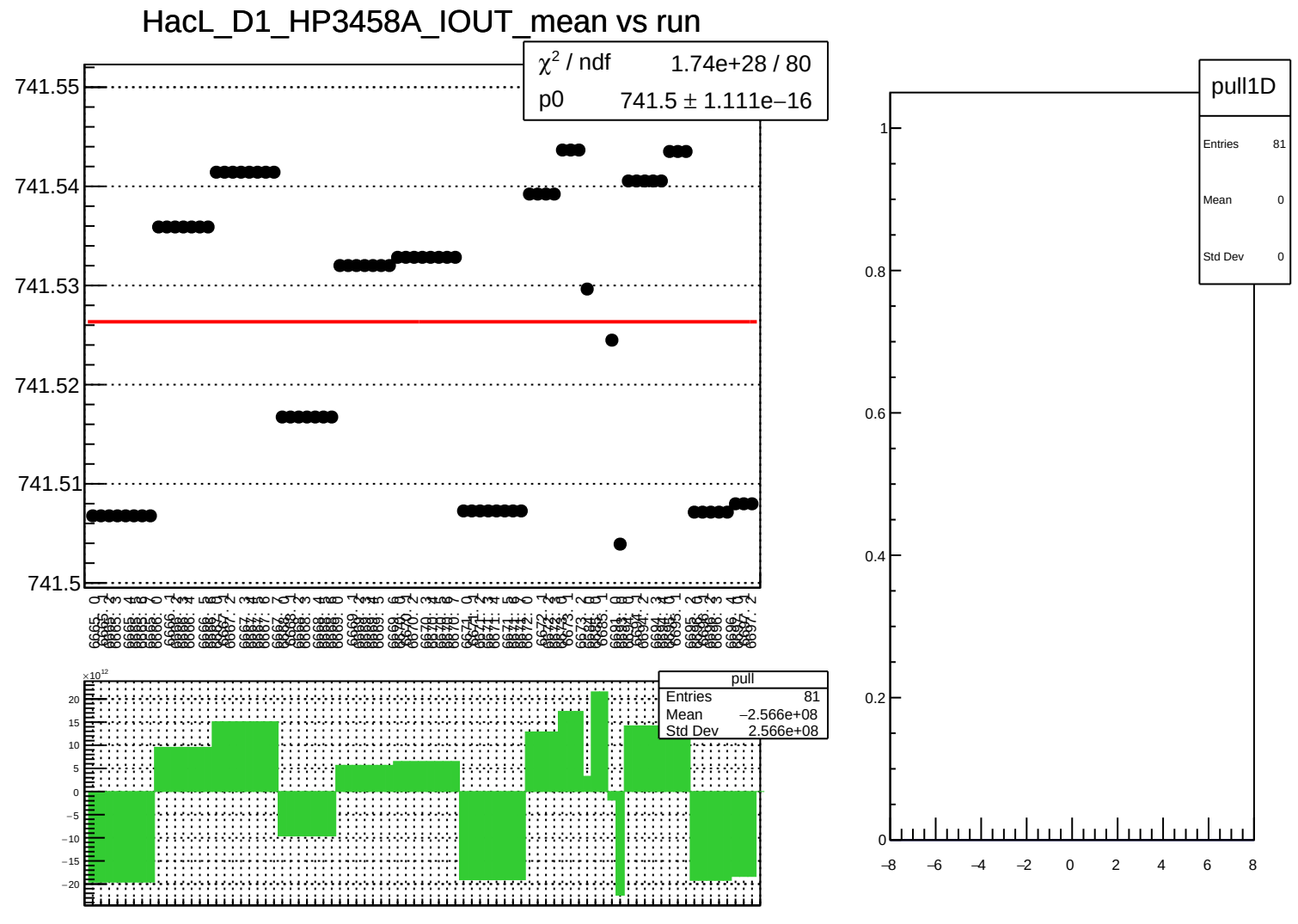

pull1D
Entries 81
Mean 0
Std Dev 0

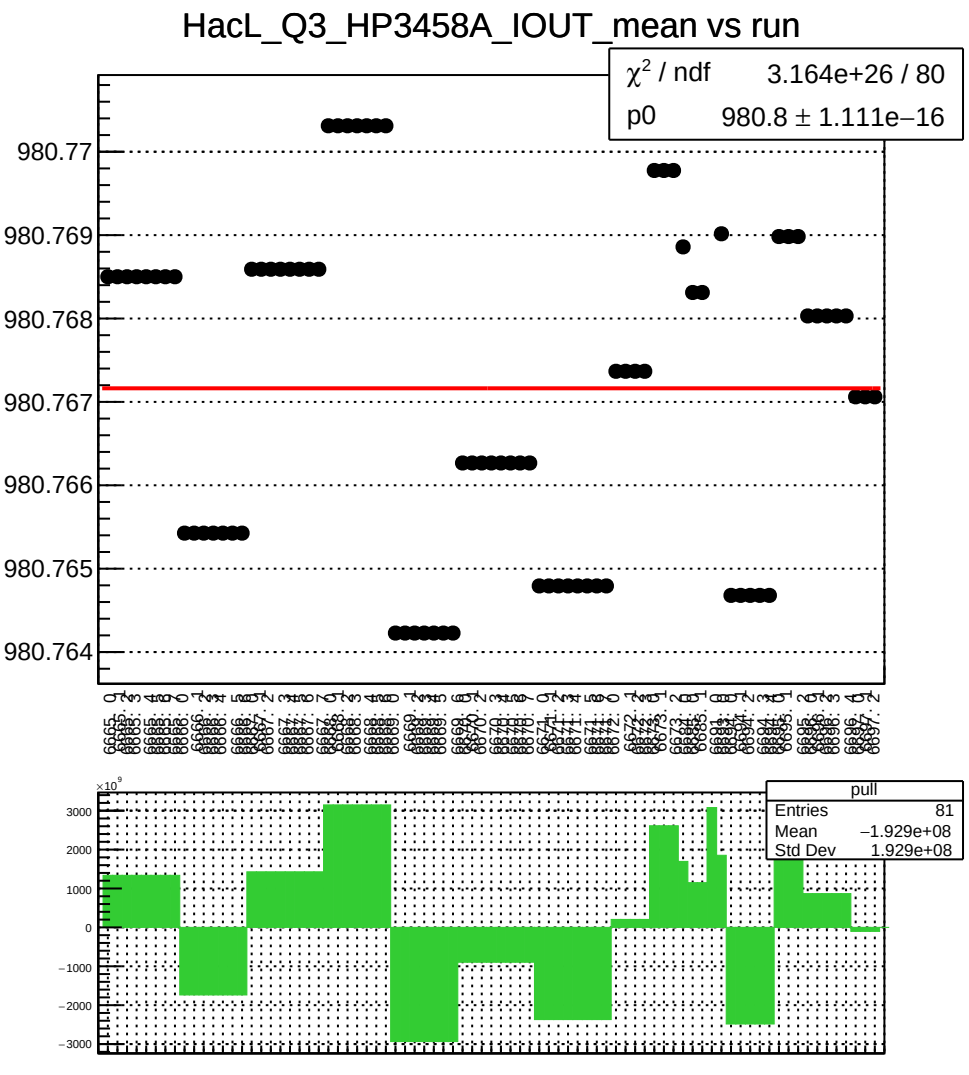

MQ171LM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

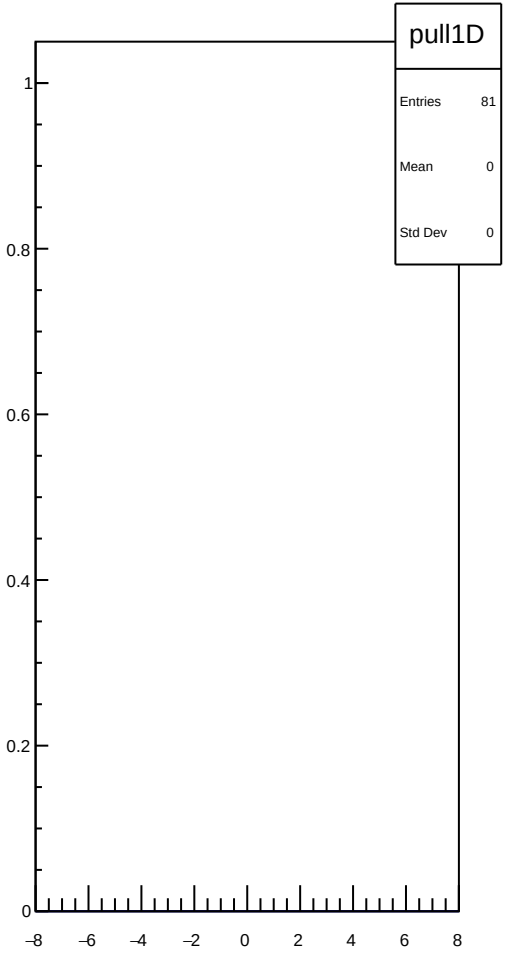

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

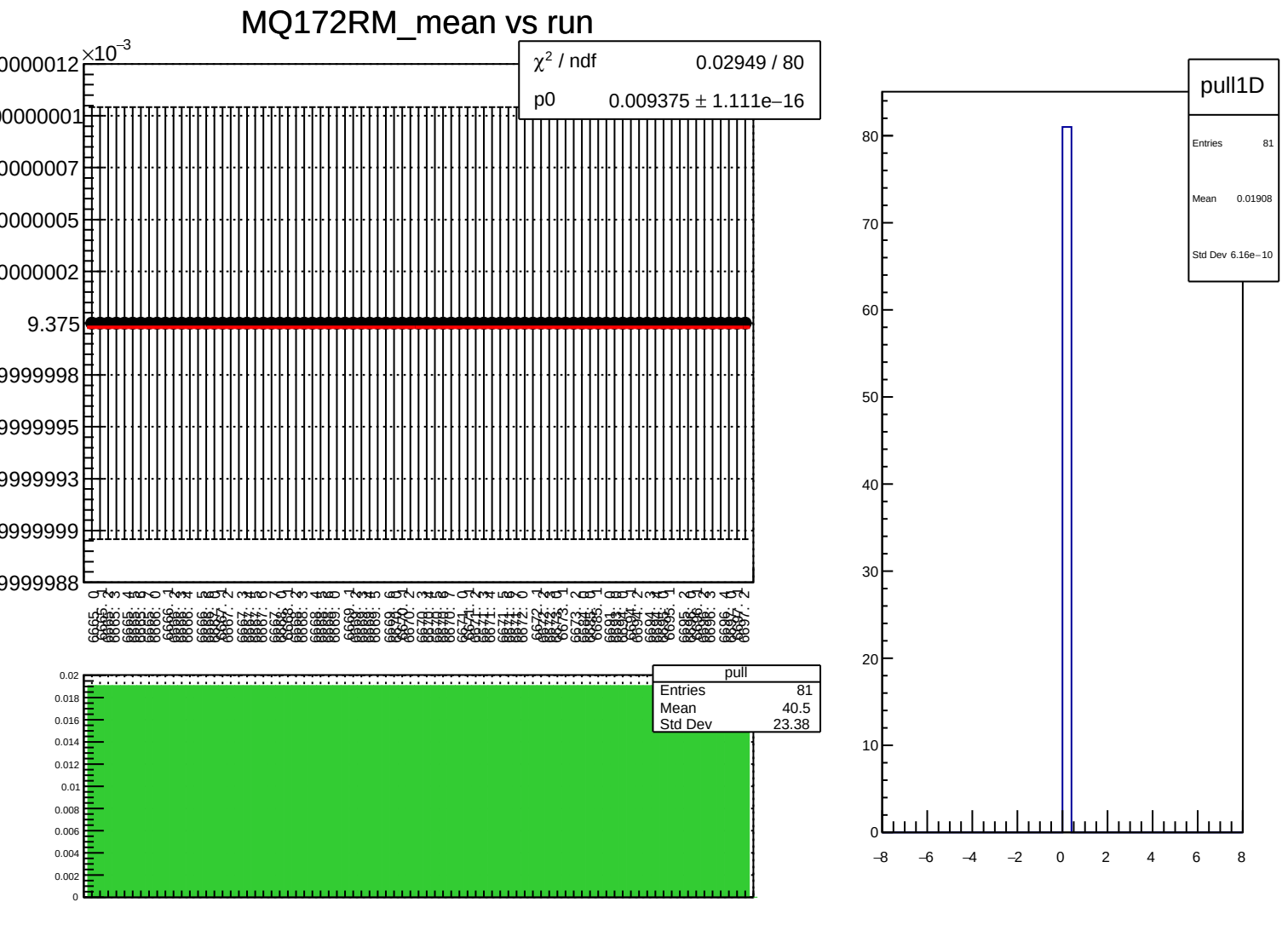

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.222e+28 / 80
p0 931.8 ± 1.111e−16
931.85
931.84
931.83
931.82
931.81
pull
Entries 81
Mean 0
Std Dev 0
×10¹²
10
5
0
−5
−10
−15
−20
−25
−30

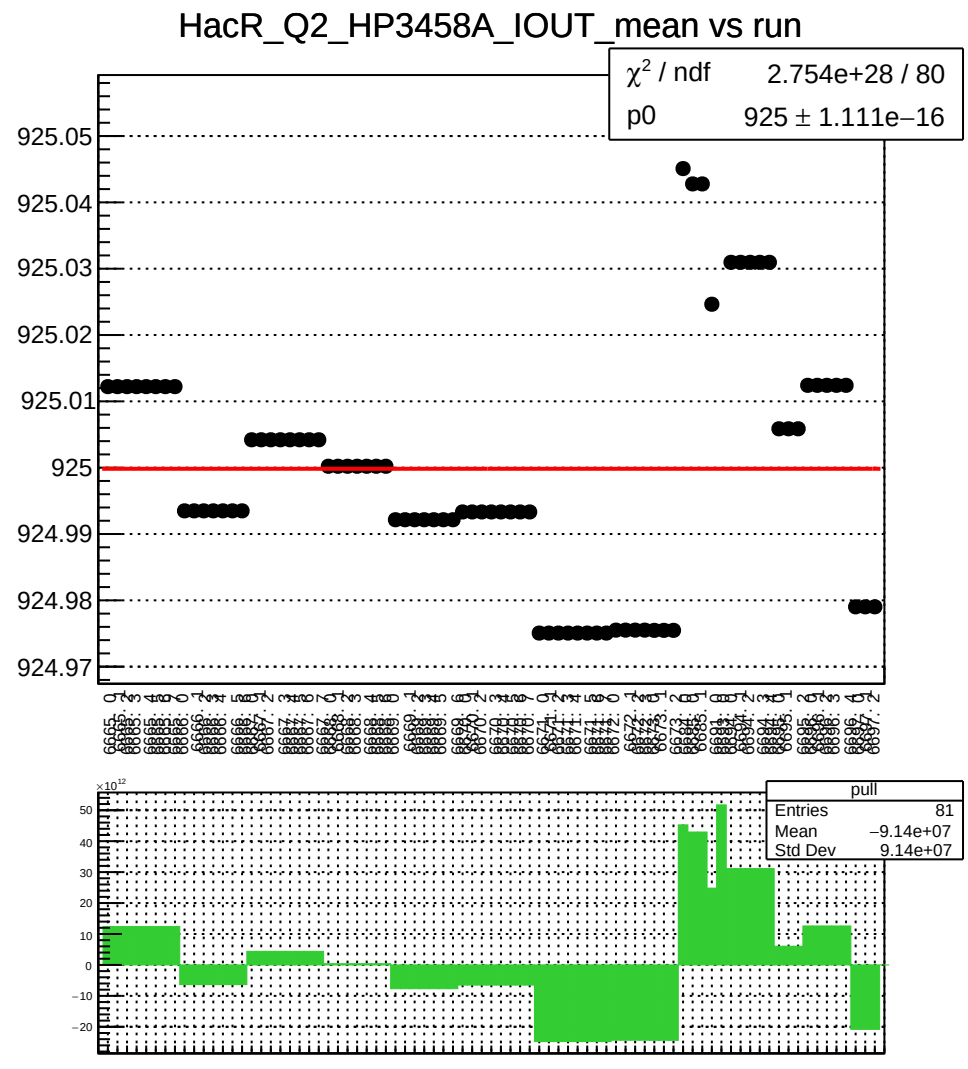

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

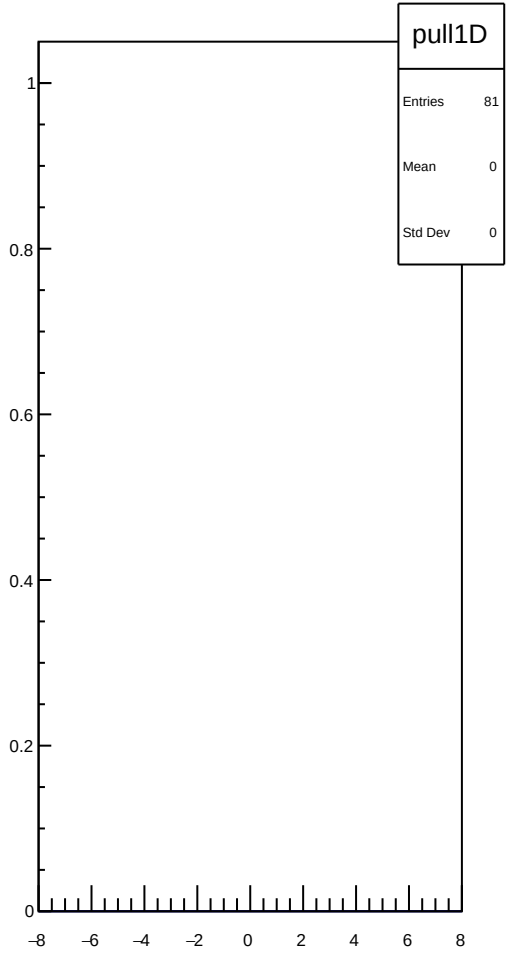

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.74e+28 / 80
p0 741.5 ± 1.111e−16
741.55
741.54
741.53
741.52
741.51
741.5
pull
Entries 81
Mean −2.566e+08
Std Dev 2.566e+08
pull1D
Entries 81
Mean 0
Std Dev 0

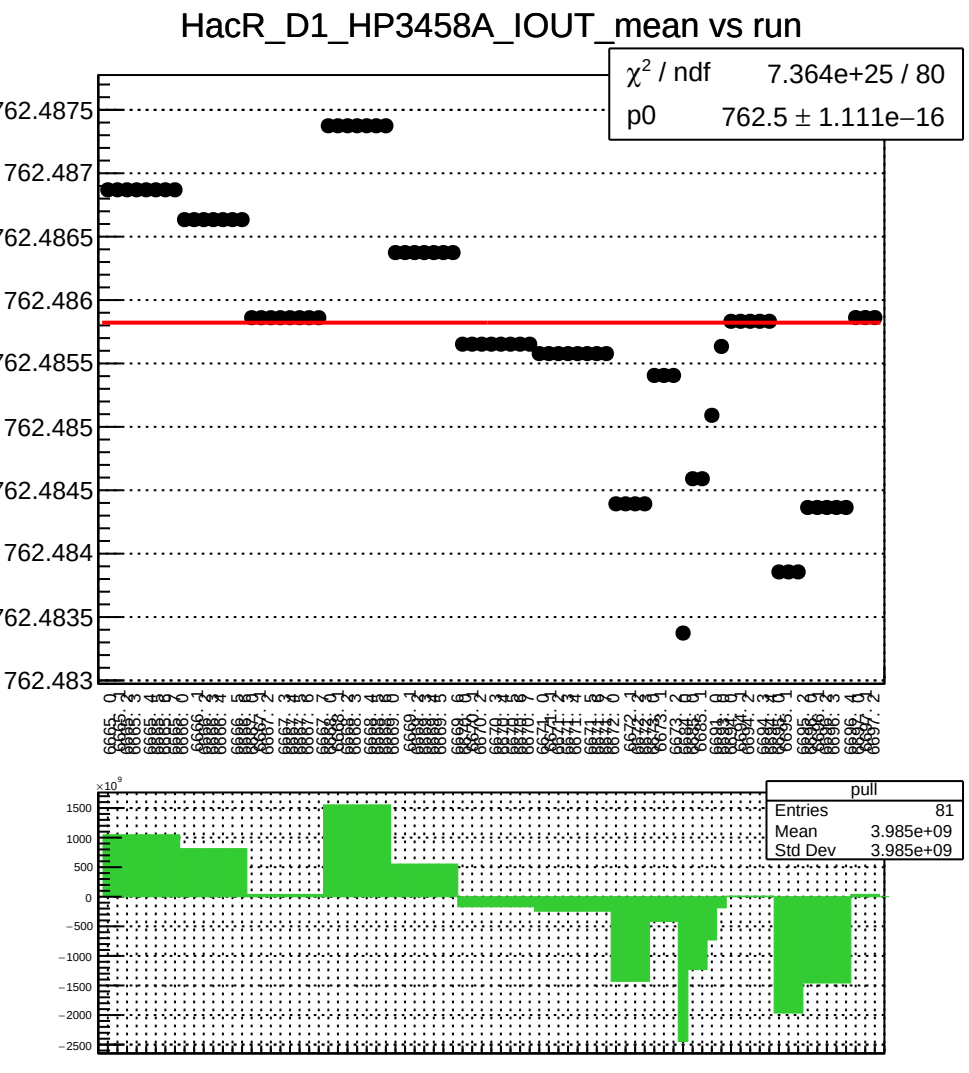

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.164e+26 / 80
p0 980.8 ± 1.111e−16
980.77
980.769
980.768
980.767
980.766
980.765
980.764
pull
Entries 81
Mean −1.929e+08
Std Dev 1.929e+08
×10⁹
3000
2000
1000
0
−1000
−2000
−3000

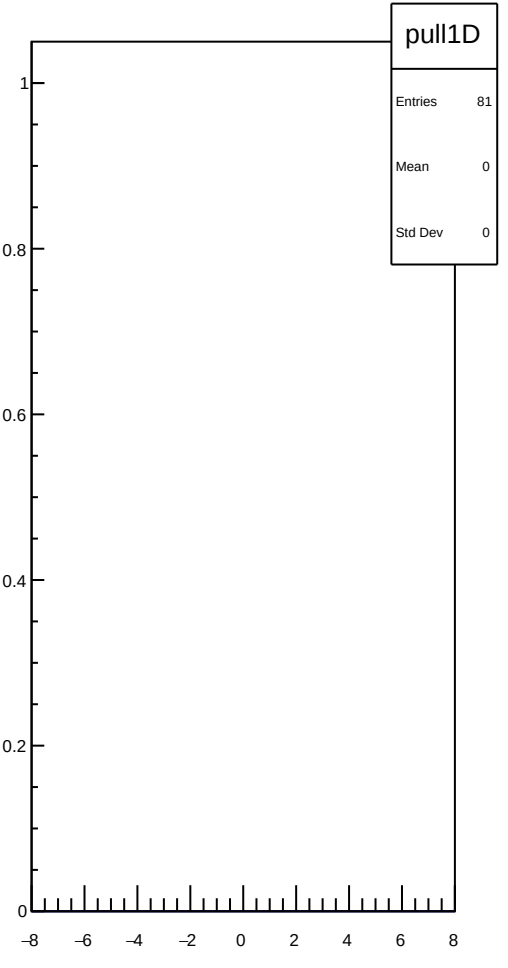

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

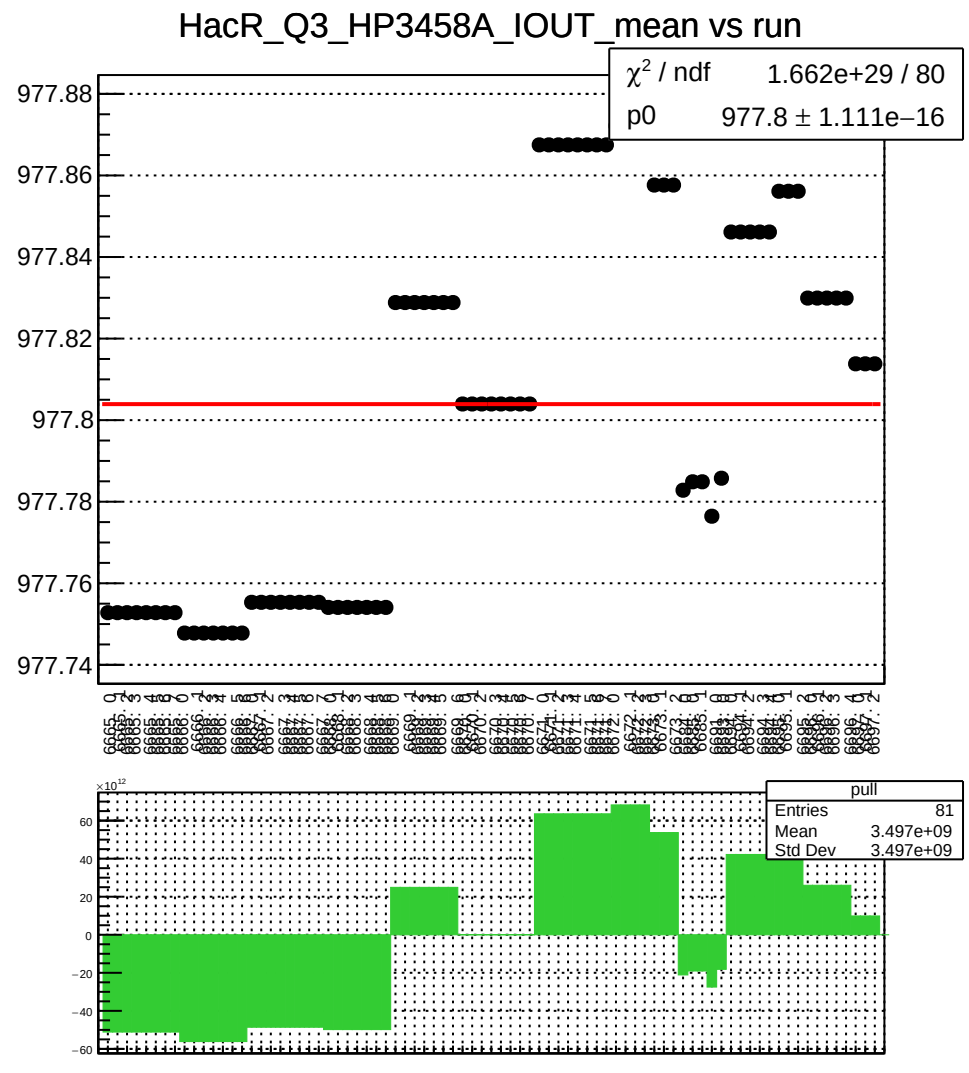

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38
pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

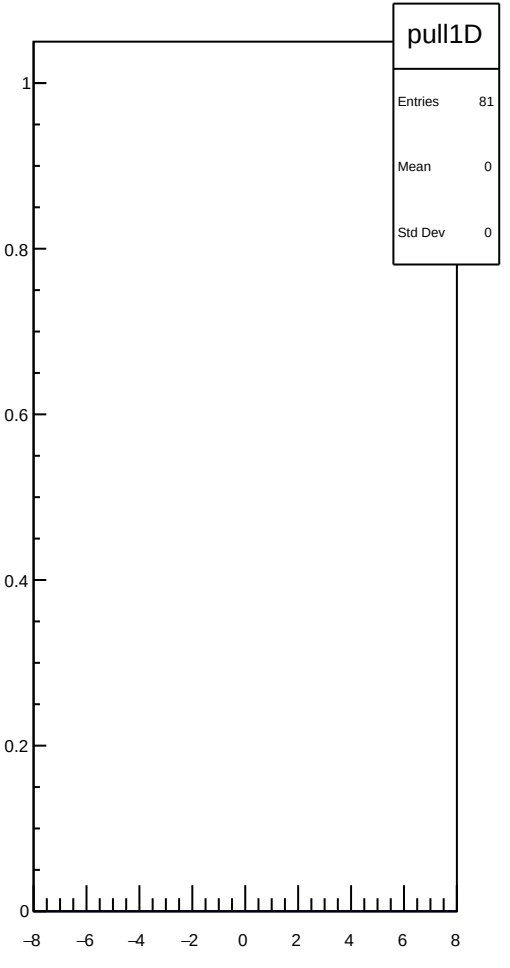

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 2.754e+28 / 80
p0 925 ± 1.111e−16
925.05
925.04
925.03
925.02
925.01
925
924.99
924.98
924.97
pull
Entries 81
Mean −9.14e+07
Std Dev 9.14e+07
×10¹²
50
40
30
20
10
0
−10
−20

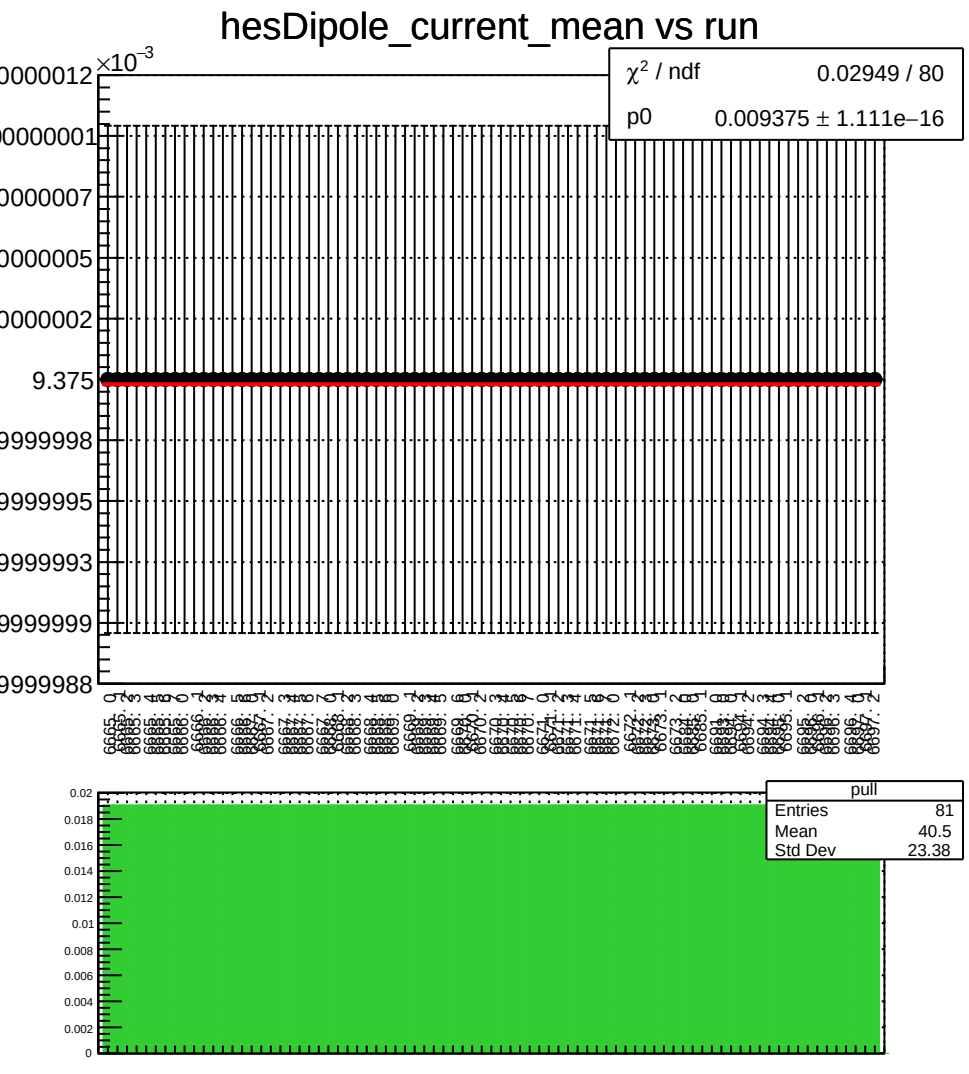

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

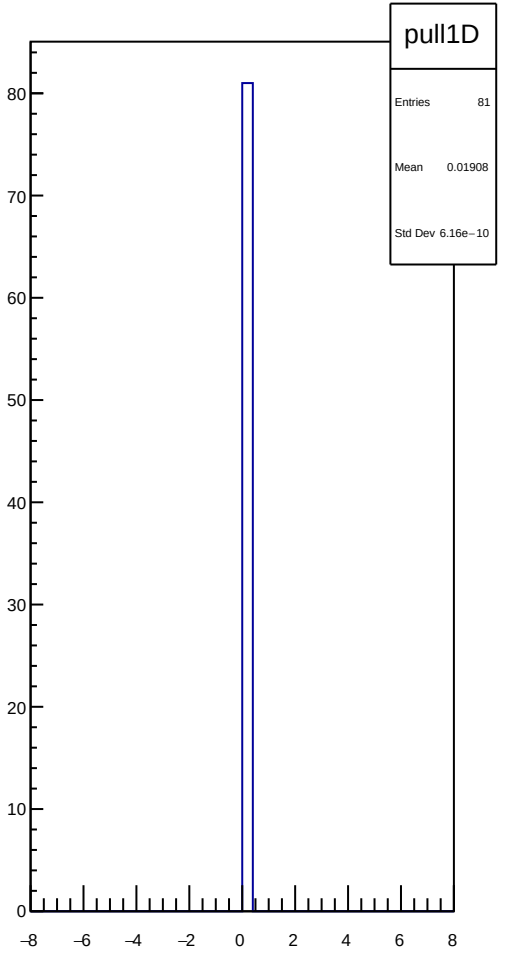

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 7.364e+25 / 80
p0 762.5 ± 1.111e−16
762.4875
762.487
762.4865
762.486
762.4855
762.485
762.4845
762.484
762.4835
762.483
pull
Entries 81
Mean 3.985e+09
Std Dev 3.985e+09
×10⁹
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

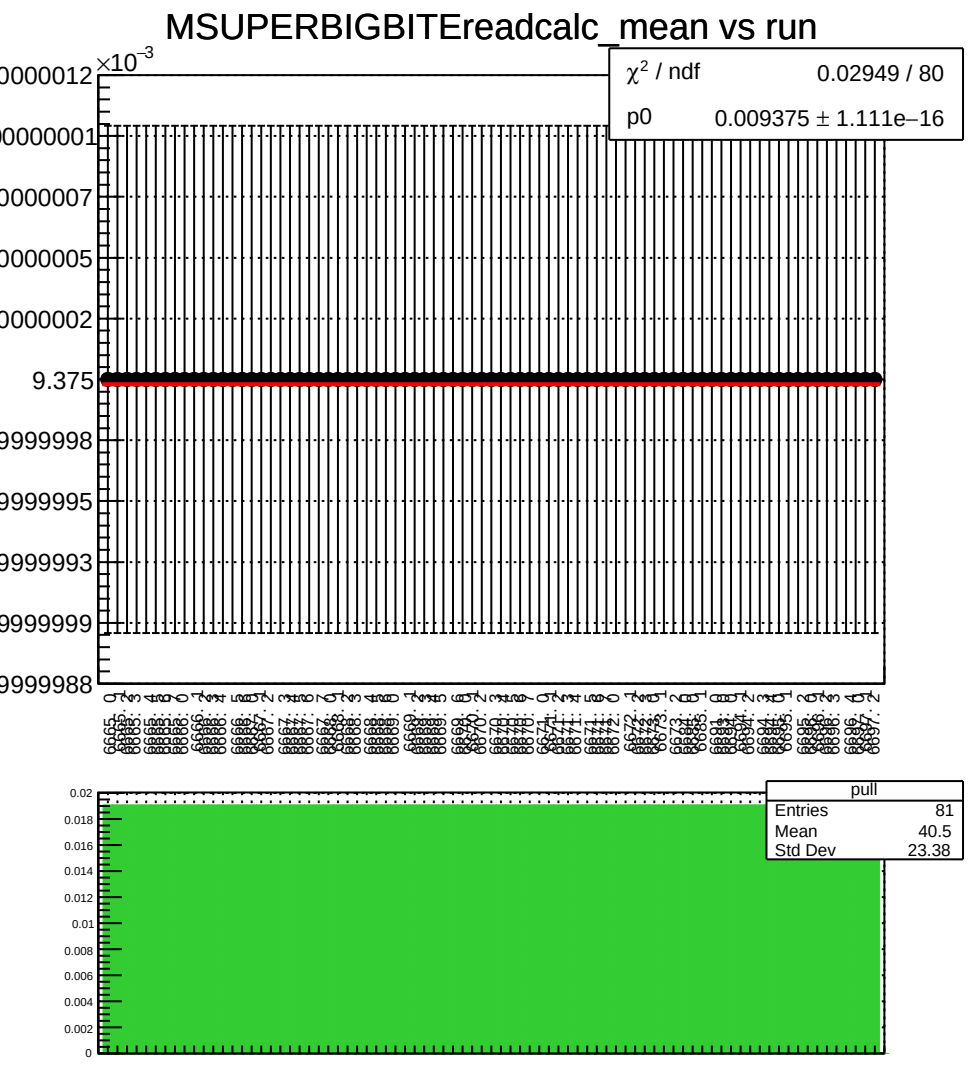

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

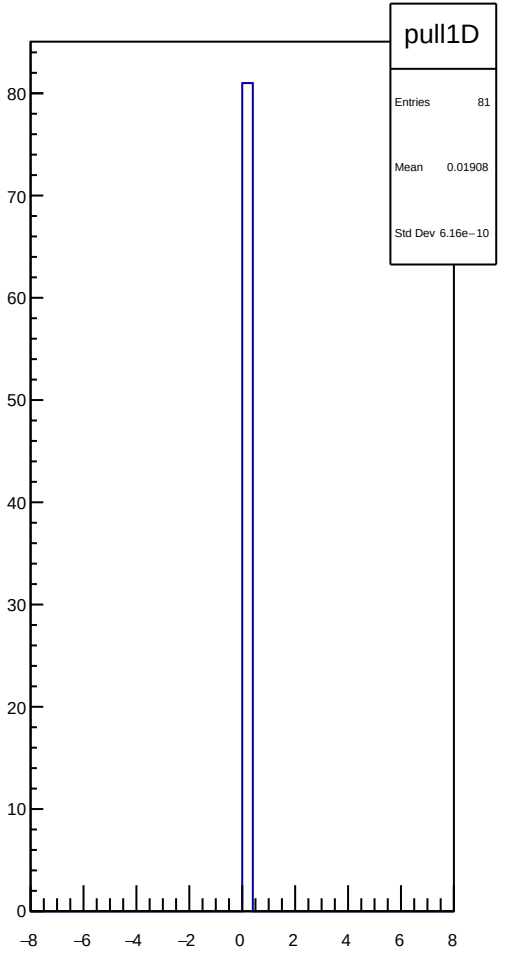

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.662e+29 / 80
p0 977.8 ± 1.111e−16
977.88
977.86
977.84
977.82
977.8
977.78
977.76
977.74
pull
Entries 81
Mean 3.497e+09
Std Dev 3.497e+09
×10¹²
60
40
20
0
−20
−40
−60

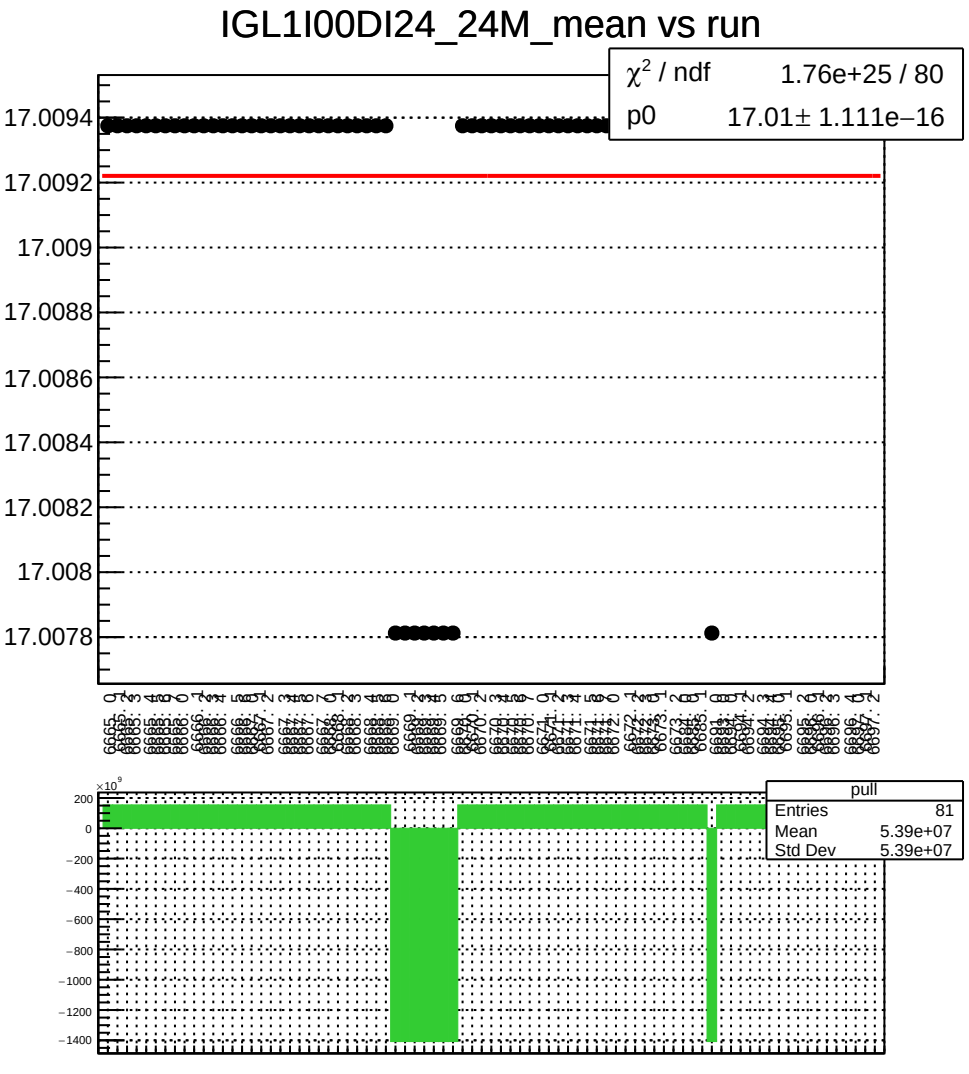

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

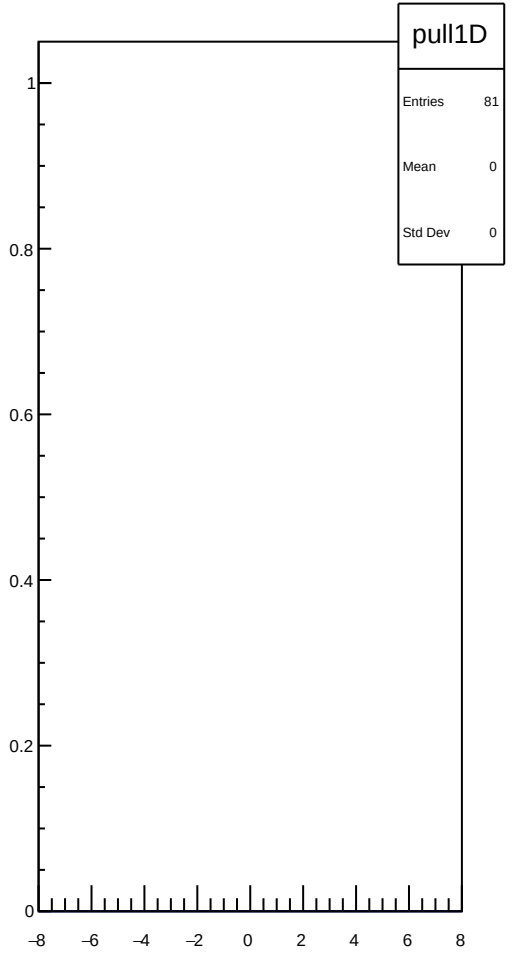

hesDipole_current_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38

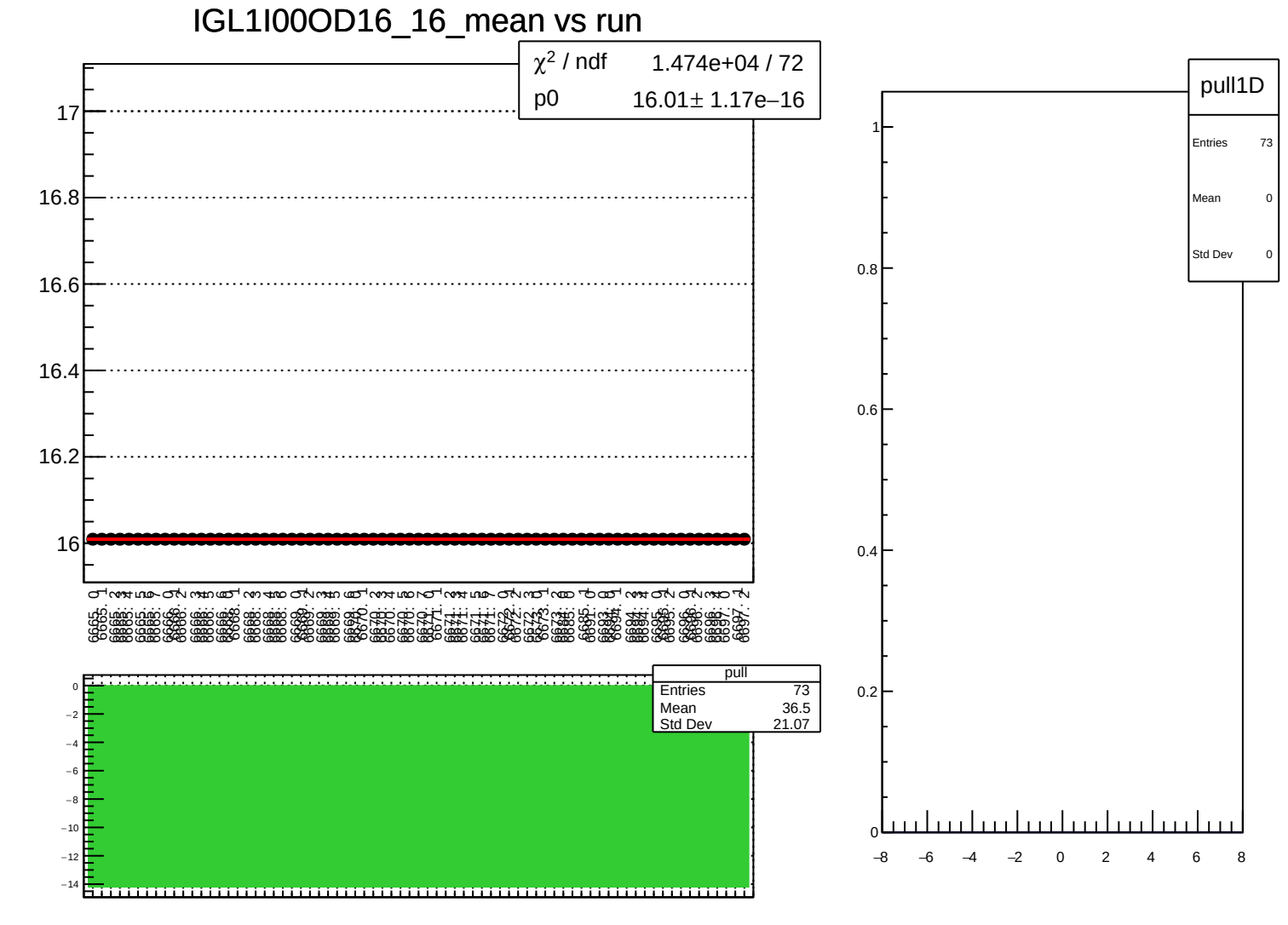

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

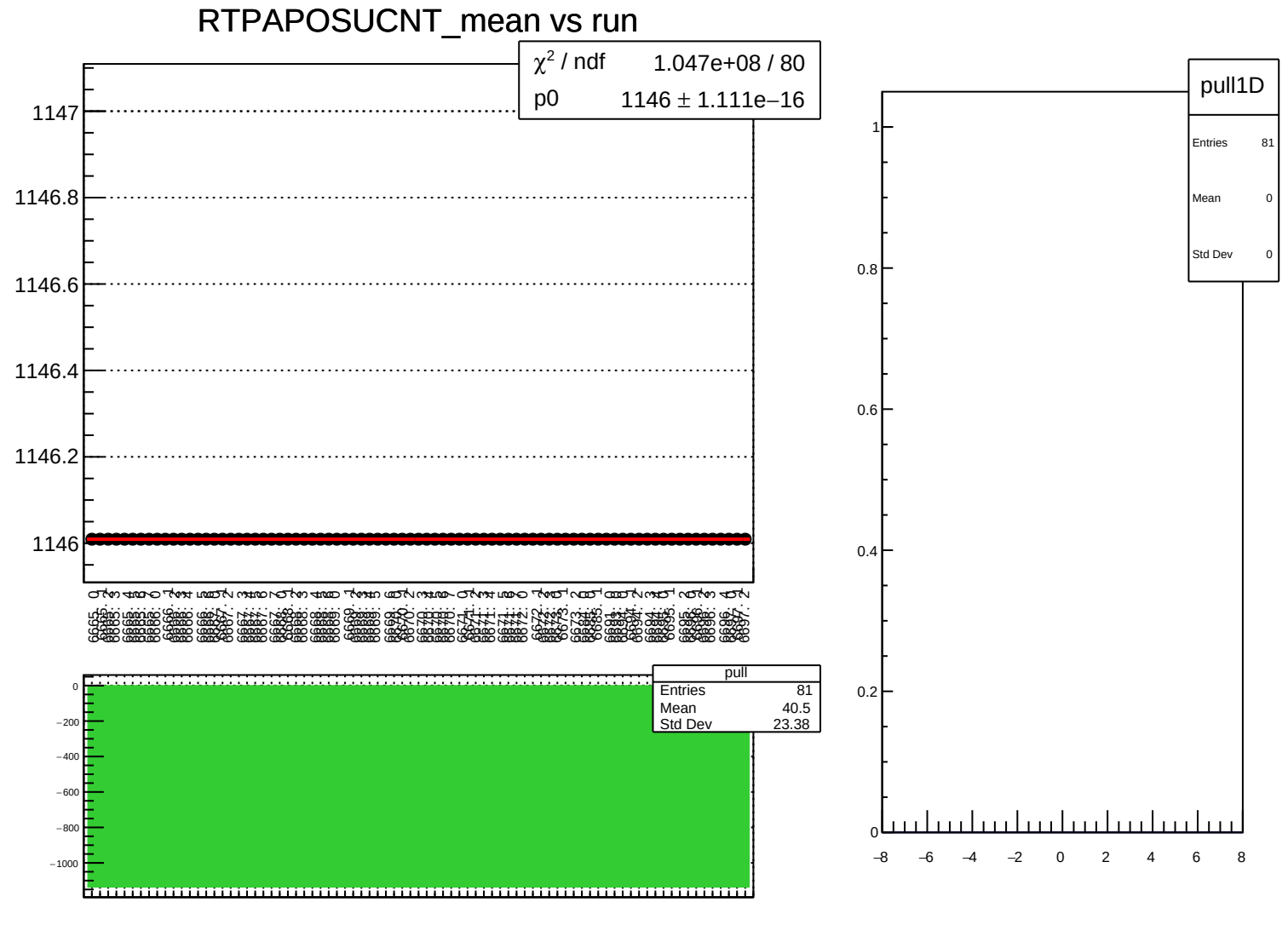

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
pull
Entries 81
Mean 40.5
Std Dev 23.38

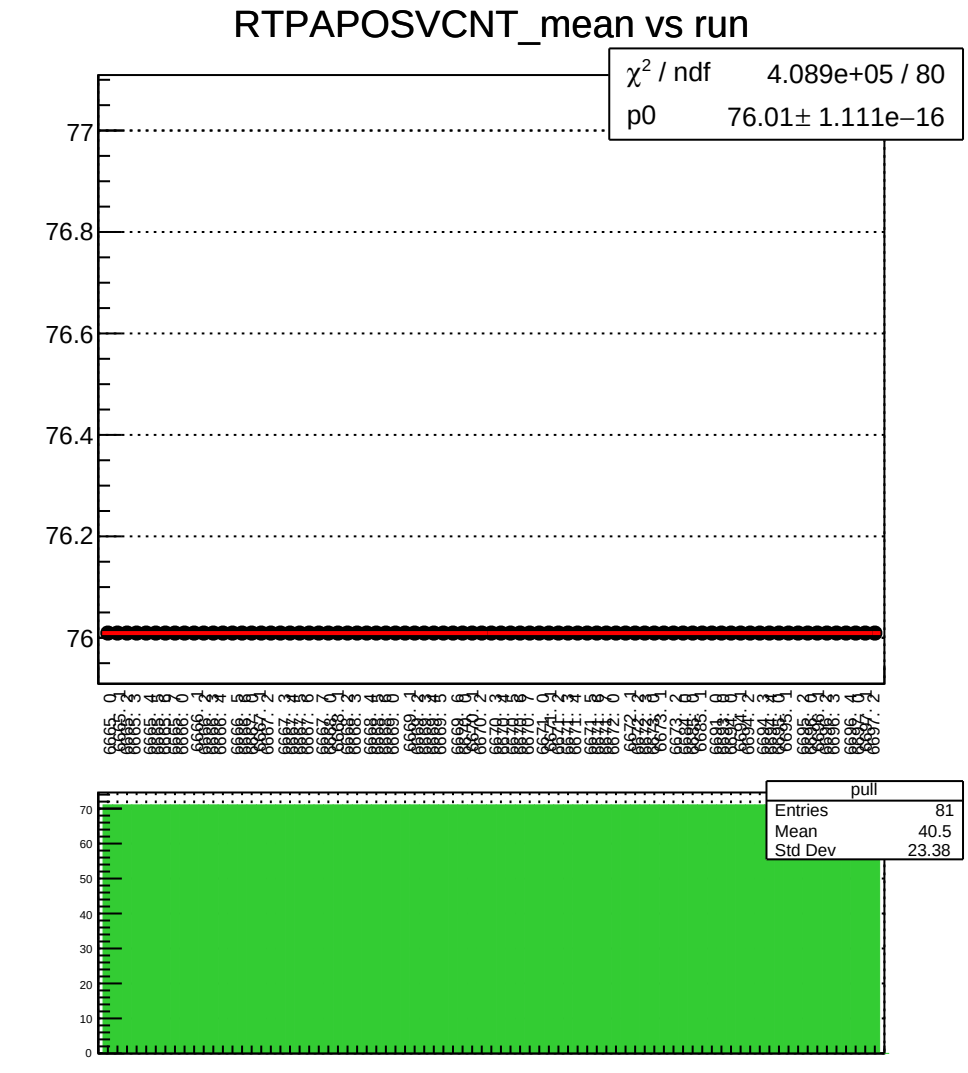

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

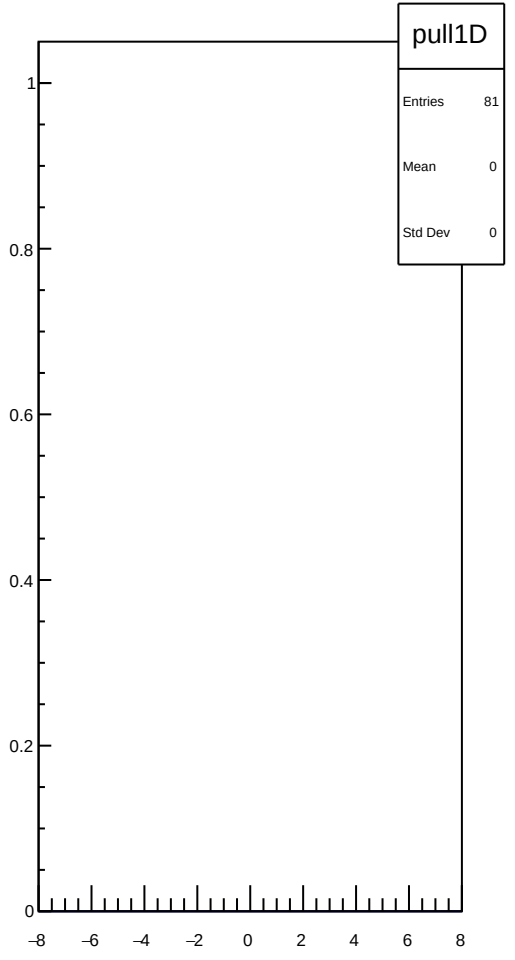

IGL1I00DI24_24M_mean vs run
χ² / ndf 1.76e+25 / 80
p0 17.01± 1.111e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 81
Mean 5.39e+07
Std Dev 5.39e+07
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400


pull1D
Entries 81
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 1.474e+04 / 72
p0 16.01± 1.17e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 73
Mean 36.5
Std Dev 21.07
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 73
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 1.047e+08 / 80
p0 1146 ± 1.111e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−200
−400
−600
−800
−1000
pull1D
Entries 81
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 4.089e+05 / 80
p0 76.01± 1.111e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 81
Mean 40.5
Std Dev 23.38
70
60
50
40
30
20
10
0


pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8