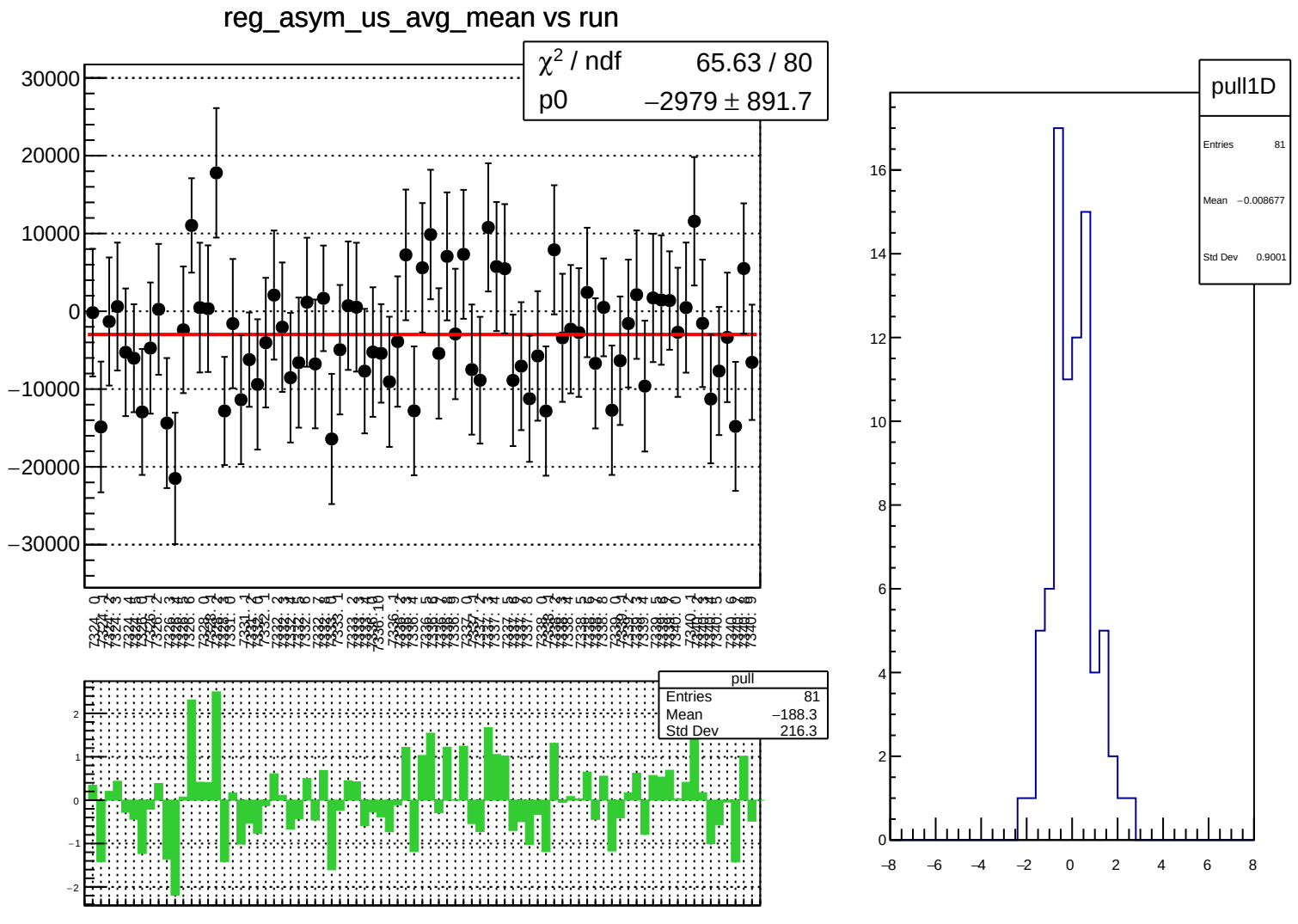
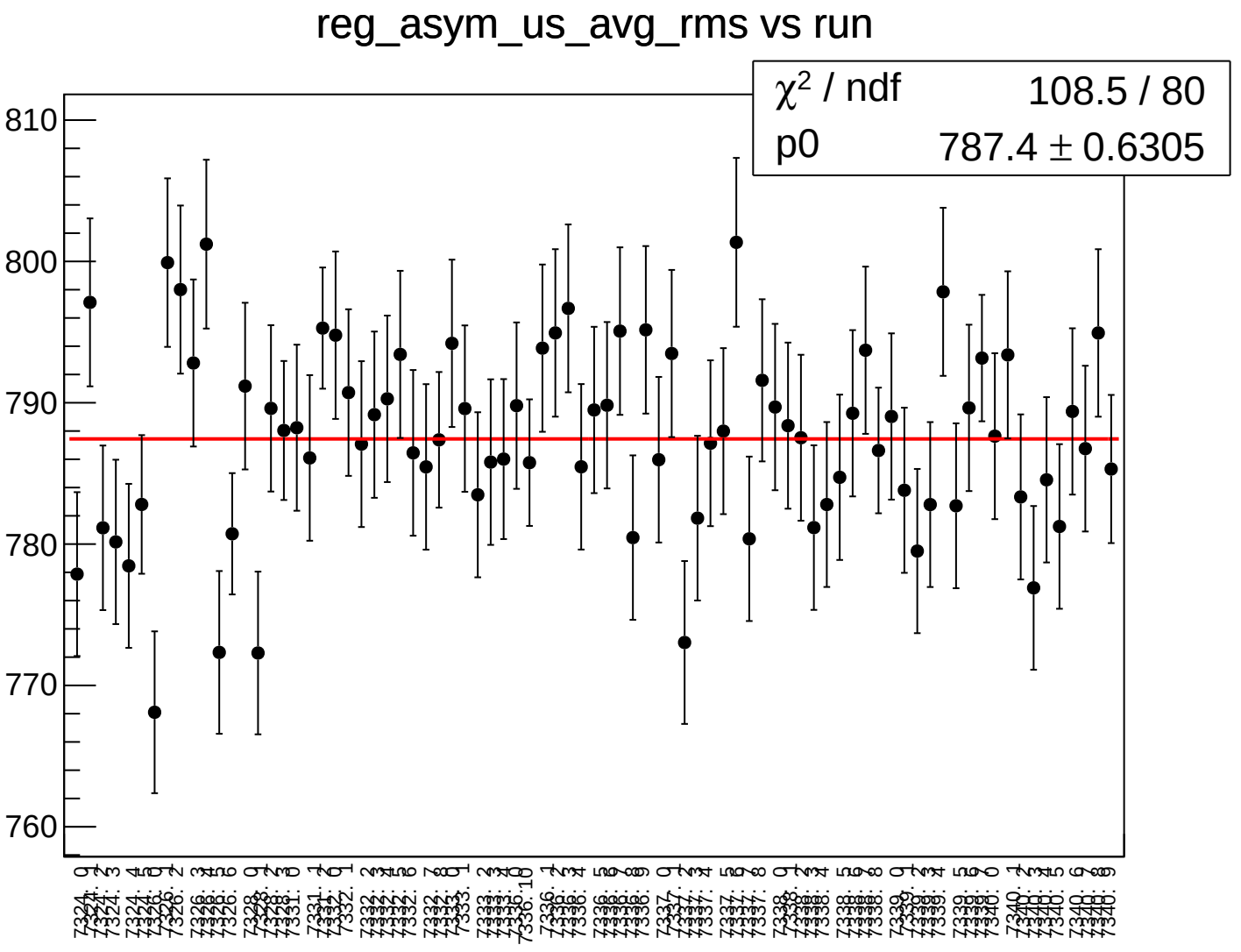
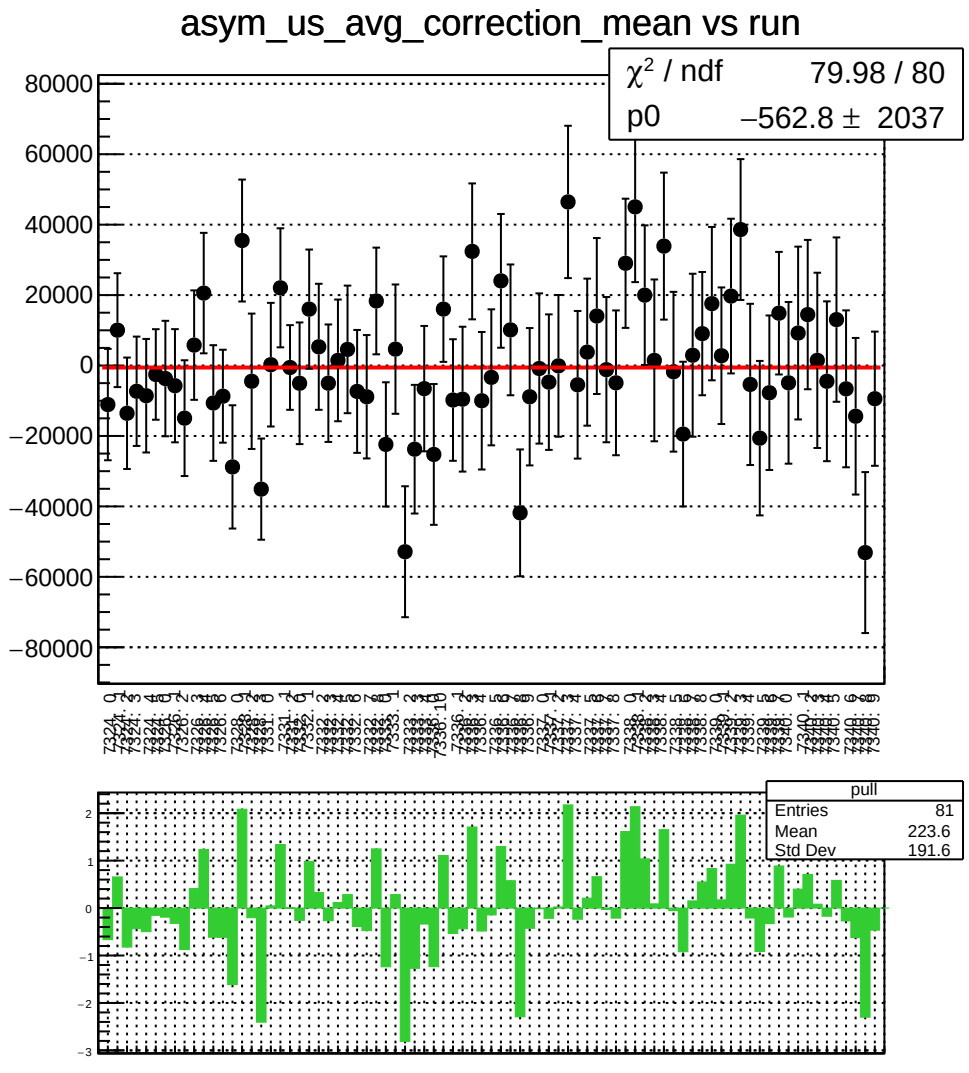
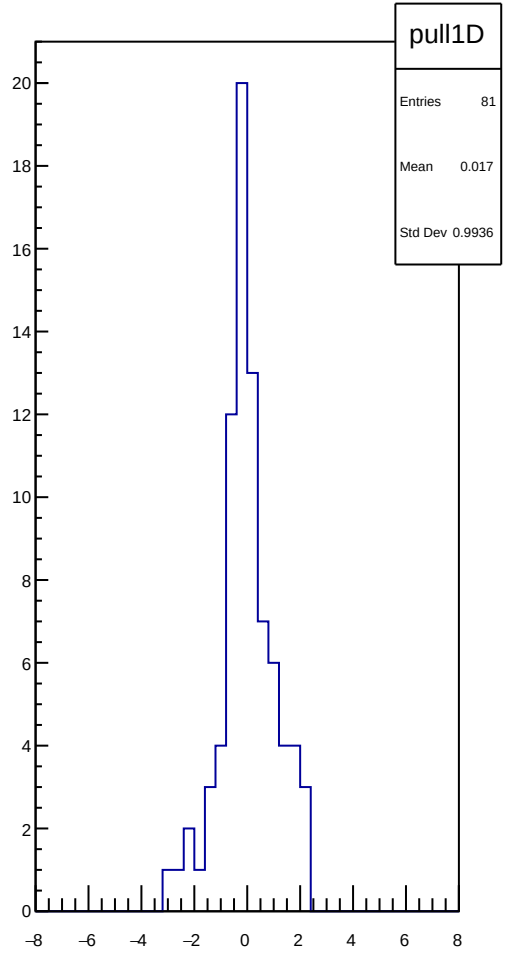
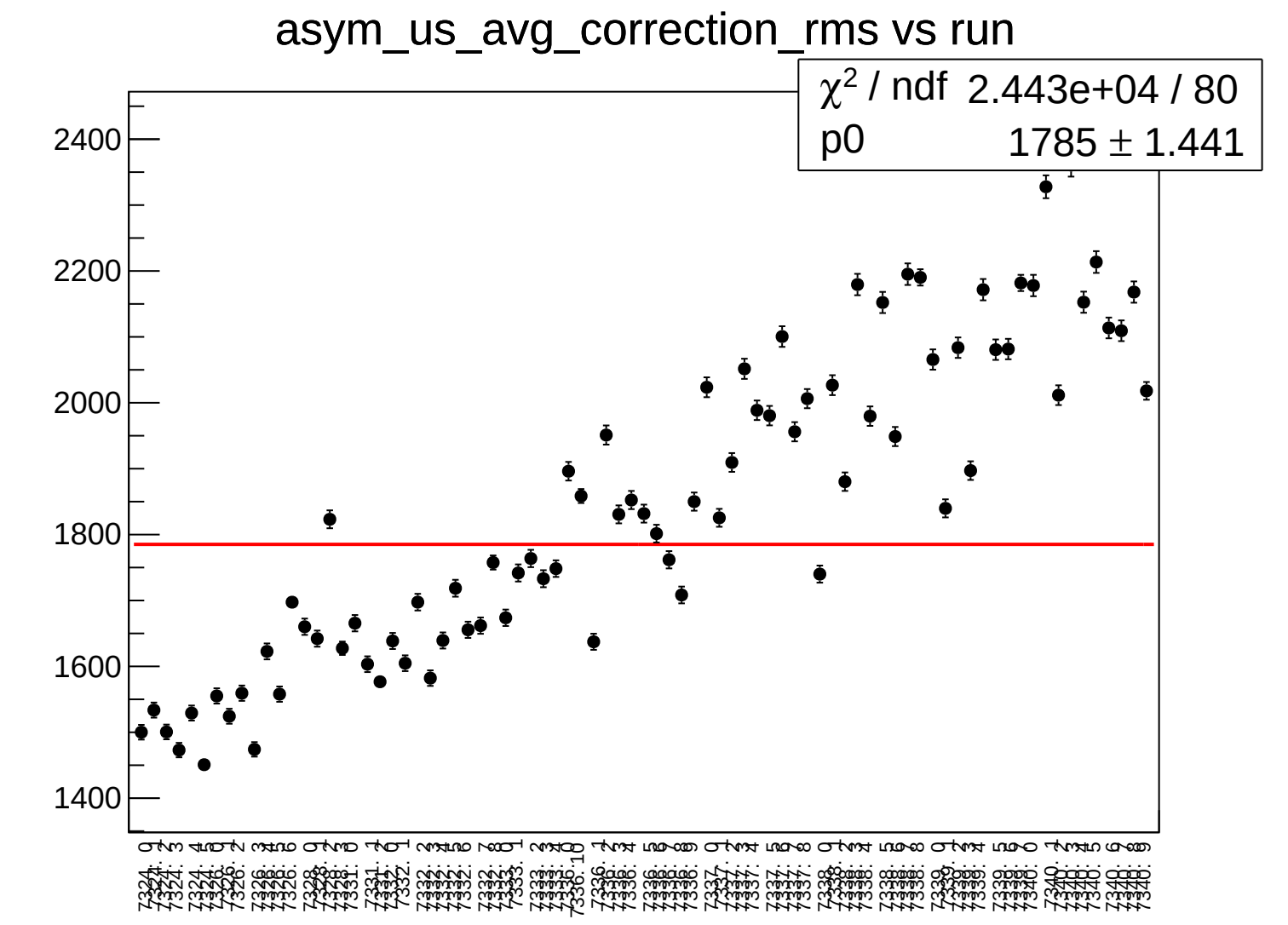
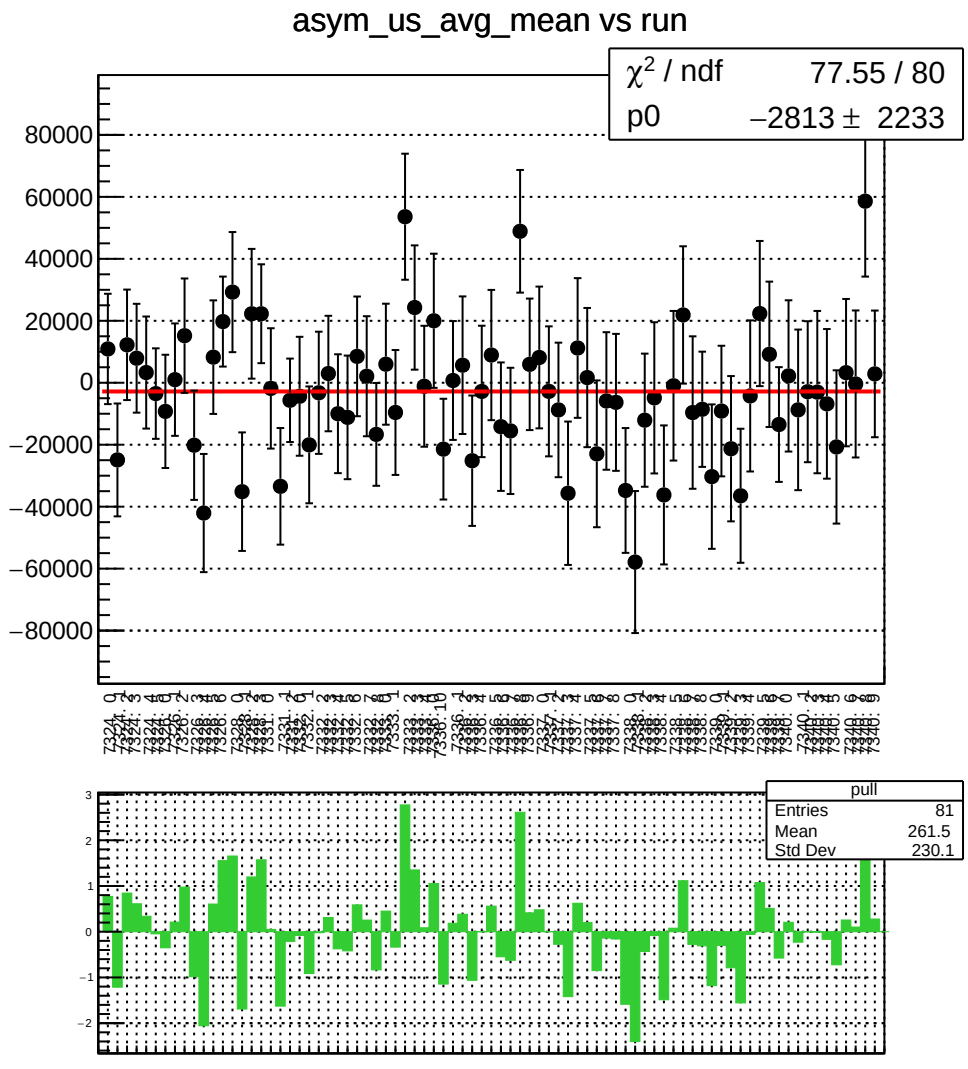

reg_asym_us_avg_mean vs run
χ² / ndf 65.63 / 80
p0 −2979 ± 891.7
pull
Entries 81
Mean −188.3
Std Dev 216.3
pull1D
Entries 81
Mean −0.008677
Std Dev 0.9001

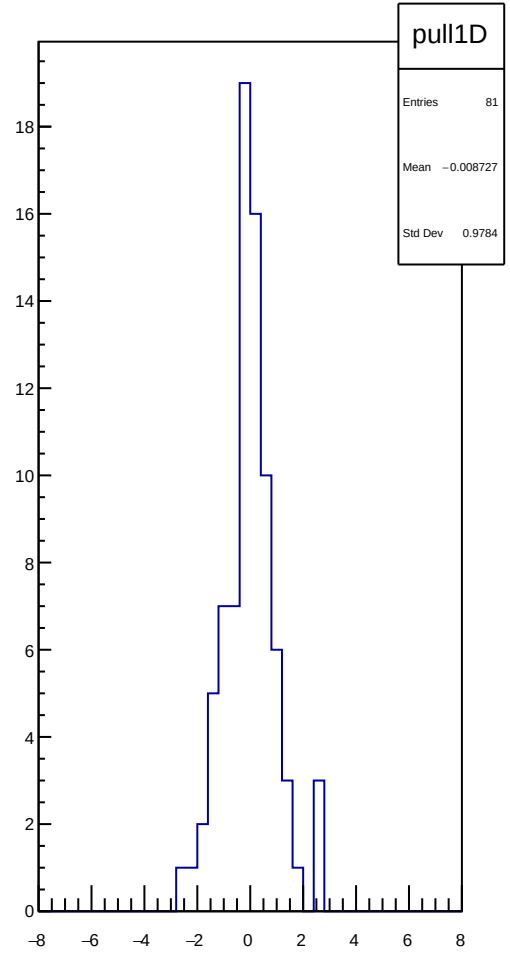

reg_asym_us_avg_rms vs run
χ^2 / ndf 108.5 / 80
p0 787.4 ± 0.6305
810
800
790
780
770
760

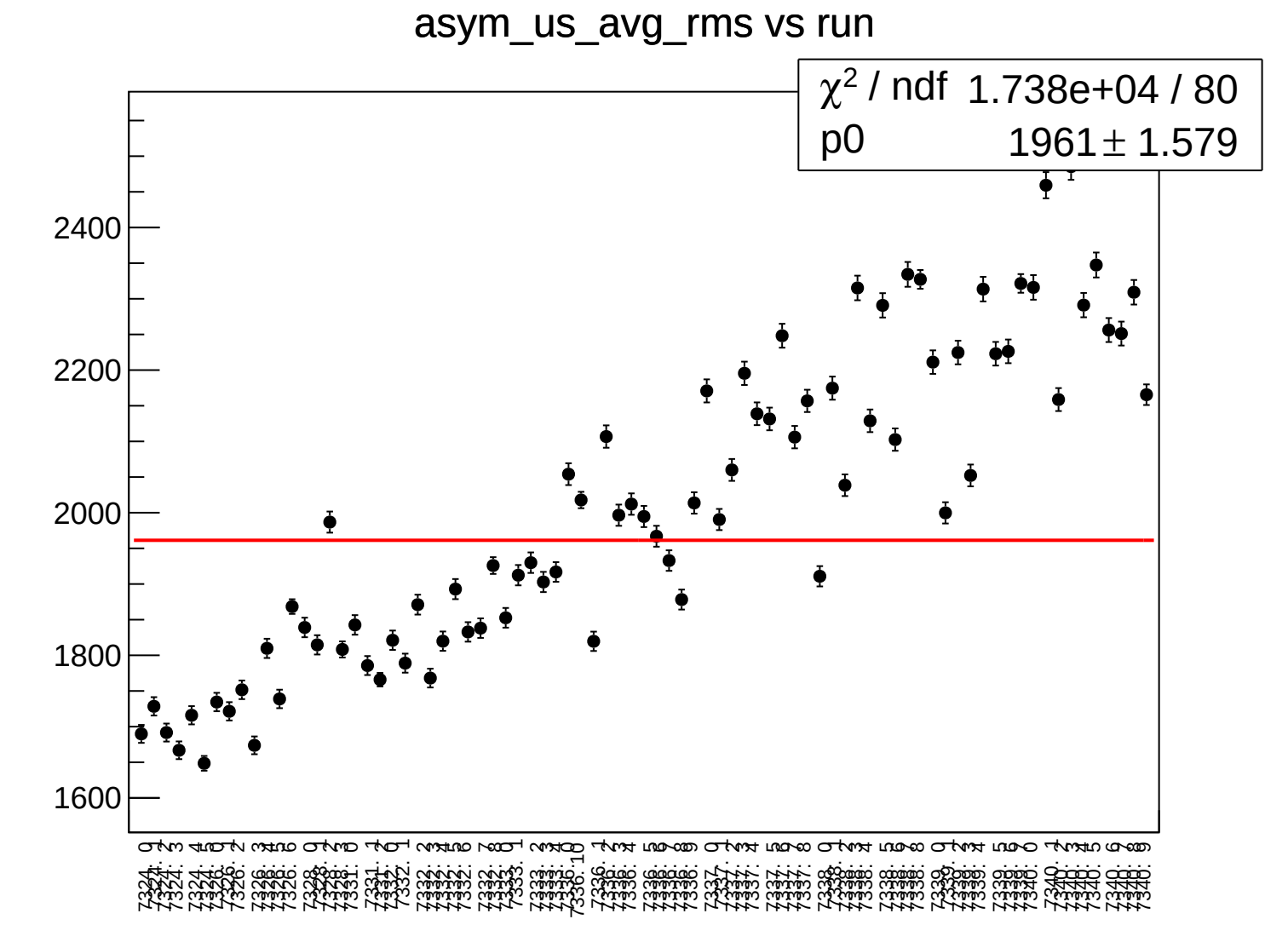

asym_us_avg_correction_mean vs run
χ² / ndf 79.98 / 80
p0 −562.8 ± 2037
pull
Entries 81
Mean 223.6
Std Dev 191.6

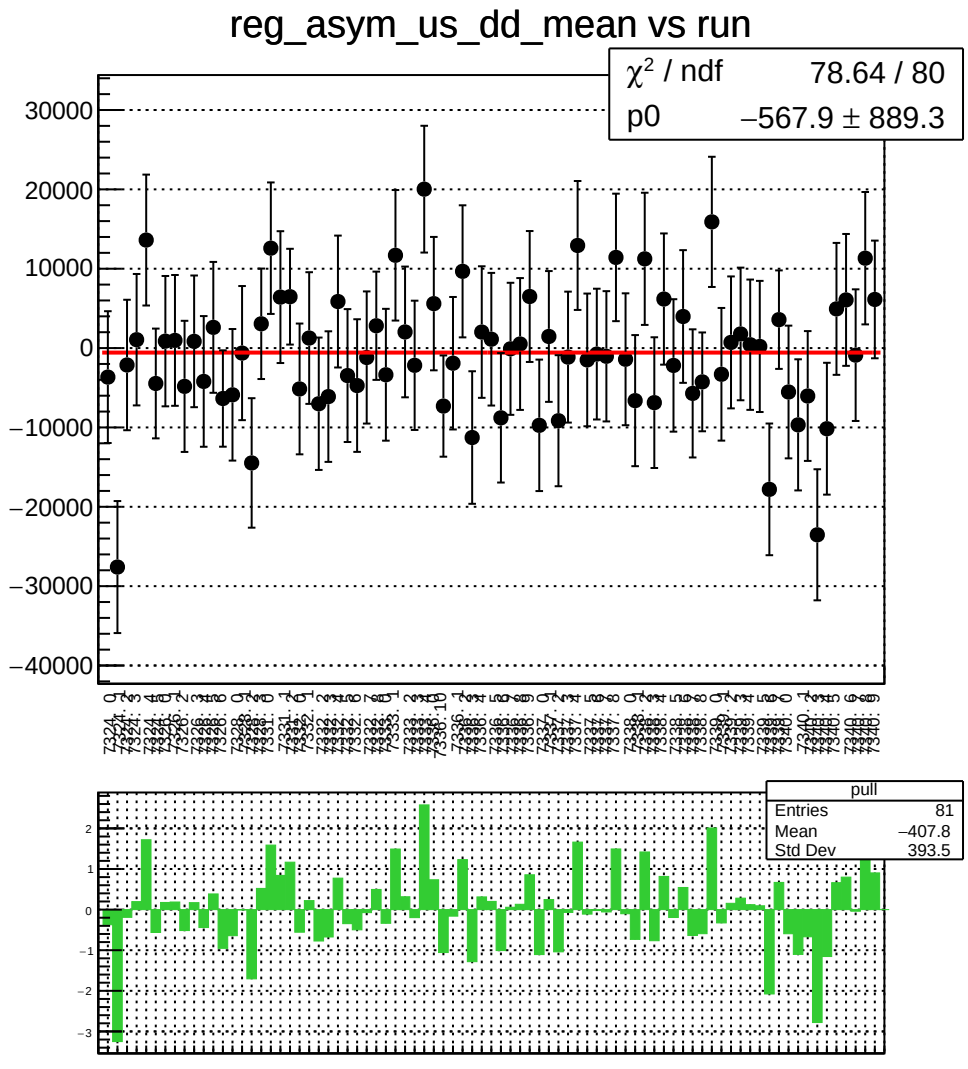

pull1D
Entries 81
Mean 0.017
Std Dev 0.9936

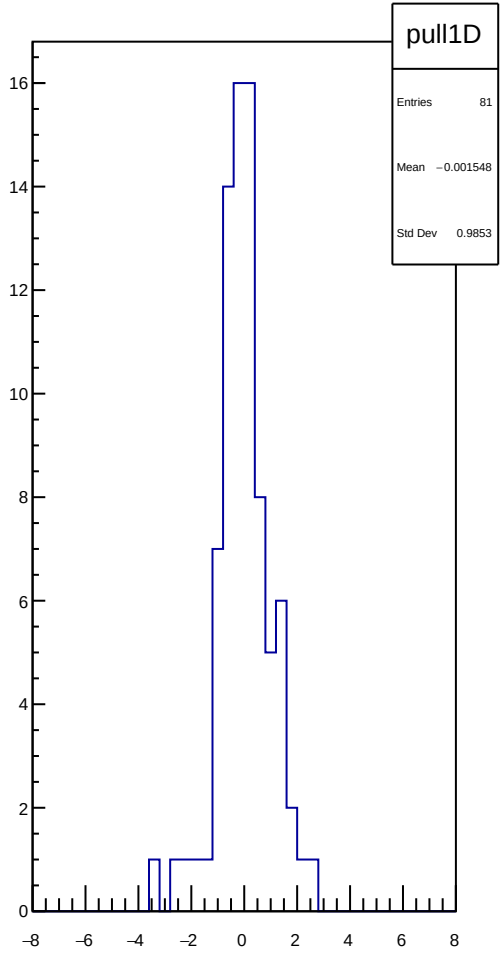

asym_us_avg_correction_rms vs run
χ² / ndf 2.443e+04 / 80
p0 1785 ± 1.441
2400
2200
2000
1800
1600
1400

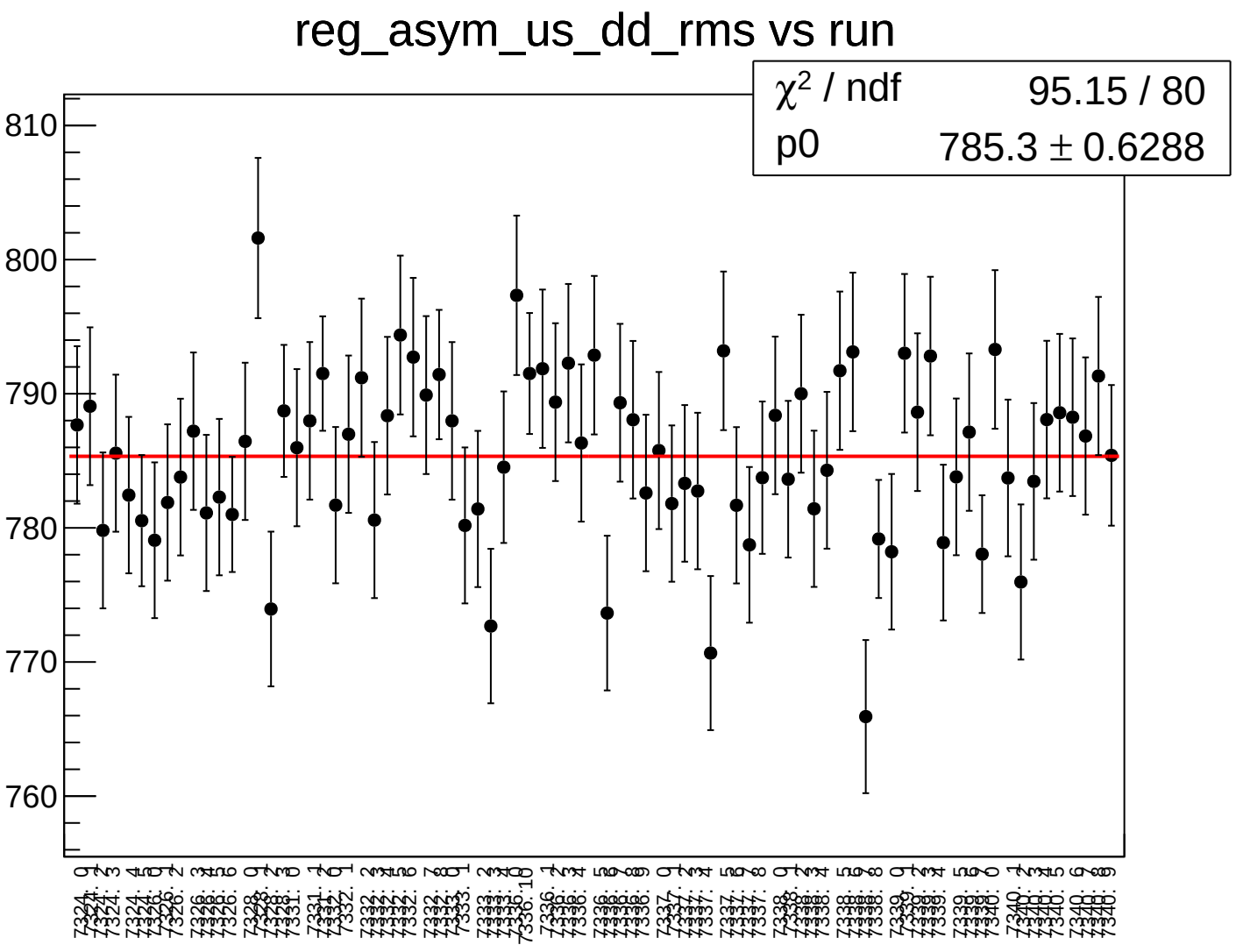

asym_us_avg_mean vs run
χ² / ndf 77.55 / 80
p0 −2813 ± 2233
pull
Entries 81
Mean 261.5
Std Dev 230.1

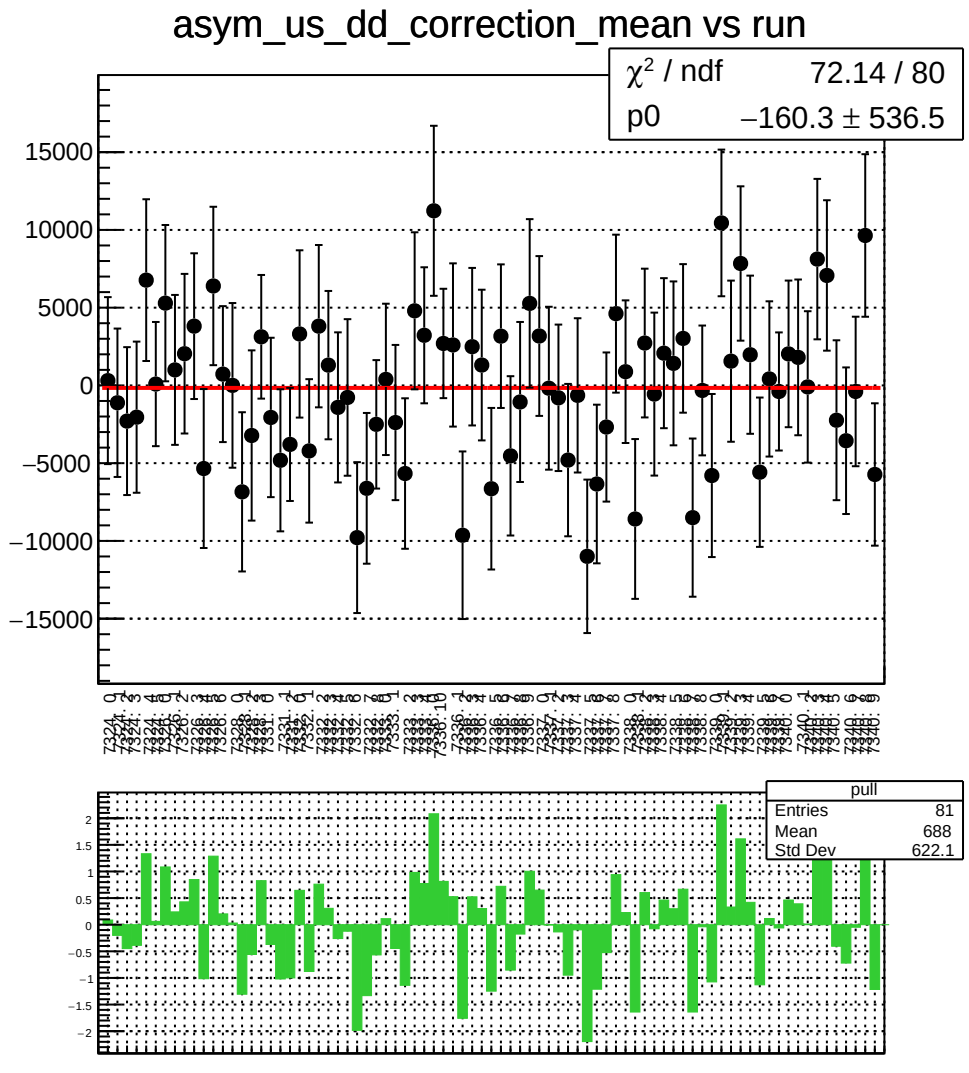

pull1D
Entries 81
Mean −0.008727
Std Dev 0.9784

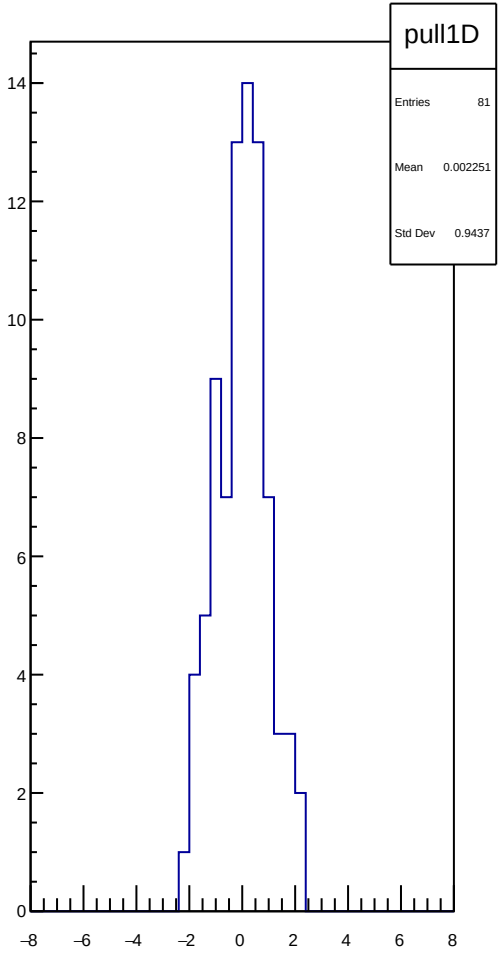

asym_us_avg_rms vs run
χ^2 / ndf 1.738e+04 / 80
p0 1961 ± 1.579
2400
2200
2000
1800
1600

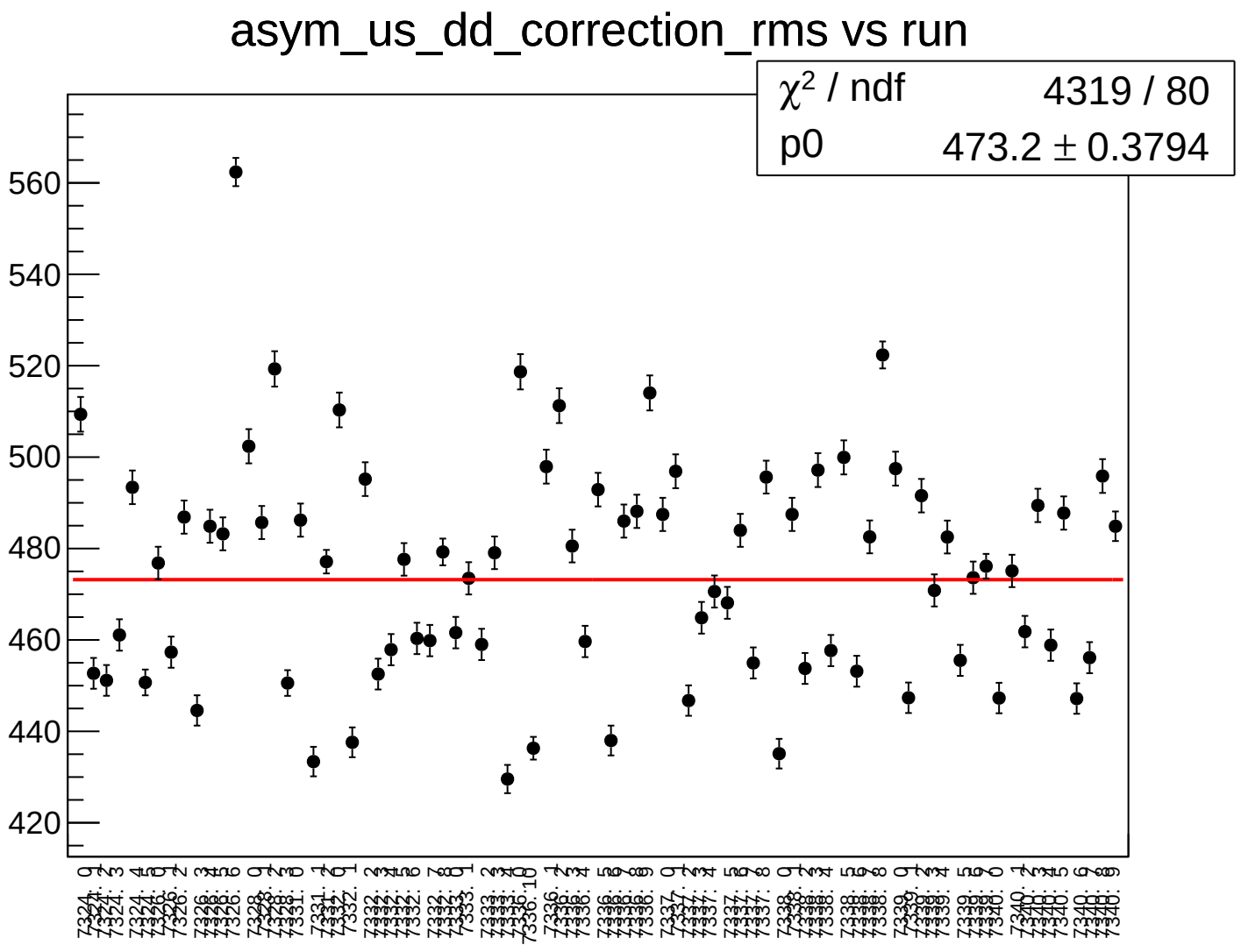

reg_asym_us_dd_mean vs run
χ² / ndf 78.64 / 80
p0 −567.9 ± 889.3
pull
Entries 81
Mean −407.8
Std Dev 393.5

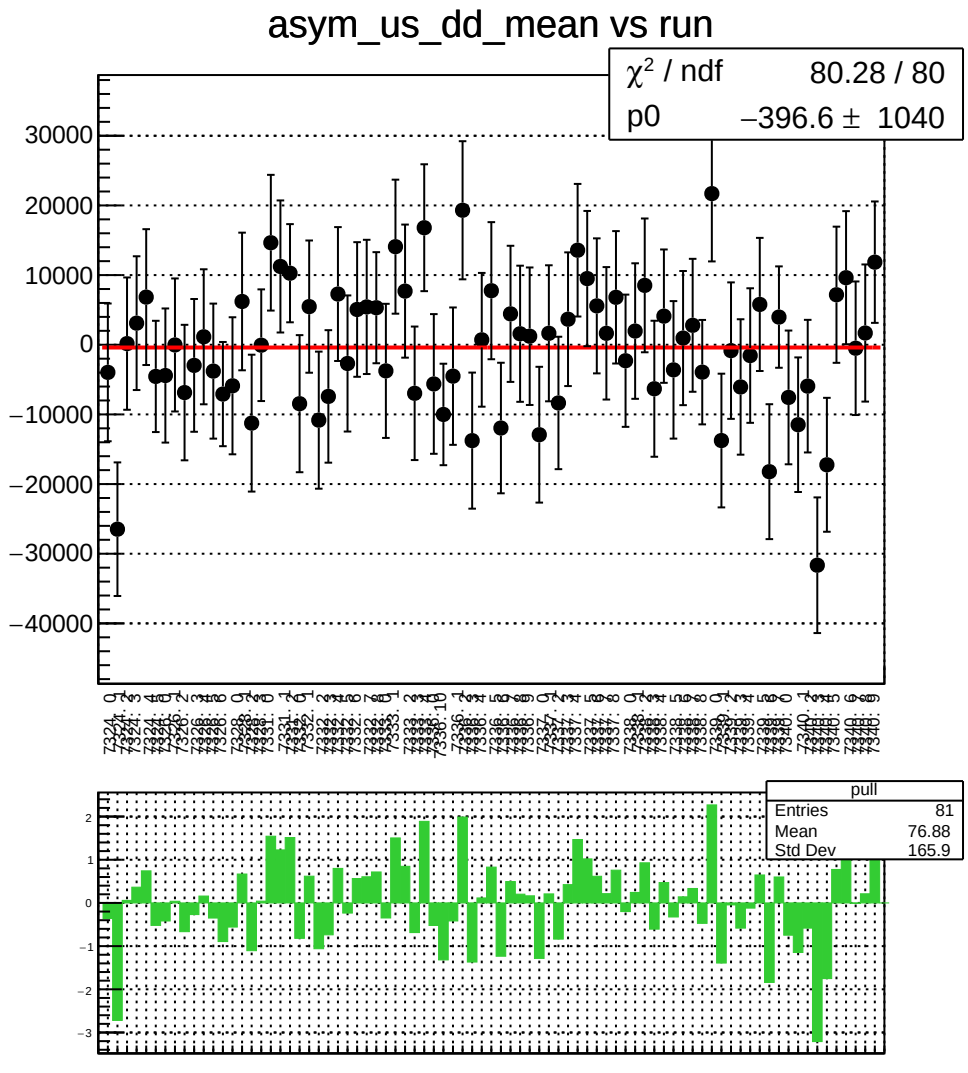

pull1D
Entries 81
Mean −0.001548
Std Dev 0.9853

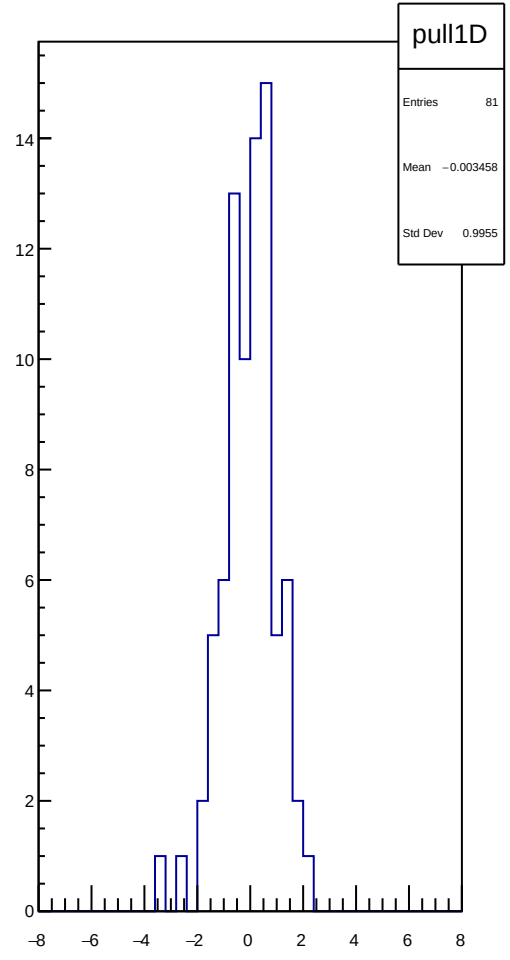

reg_asym_us_dd_rms vs run
χ² / ndf 95.15 / 80
p0 785.3 ± 0.6288
810
800
790
780
770
760

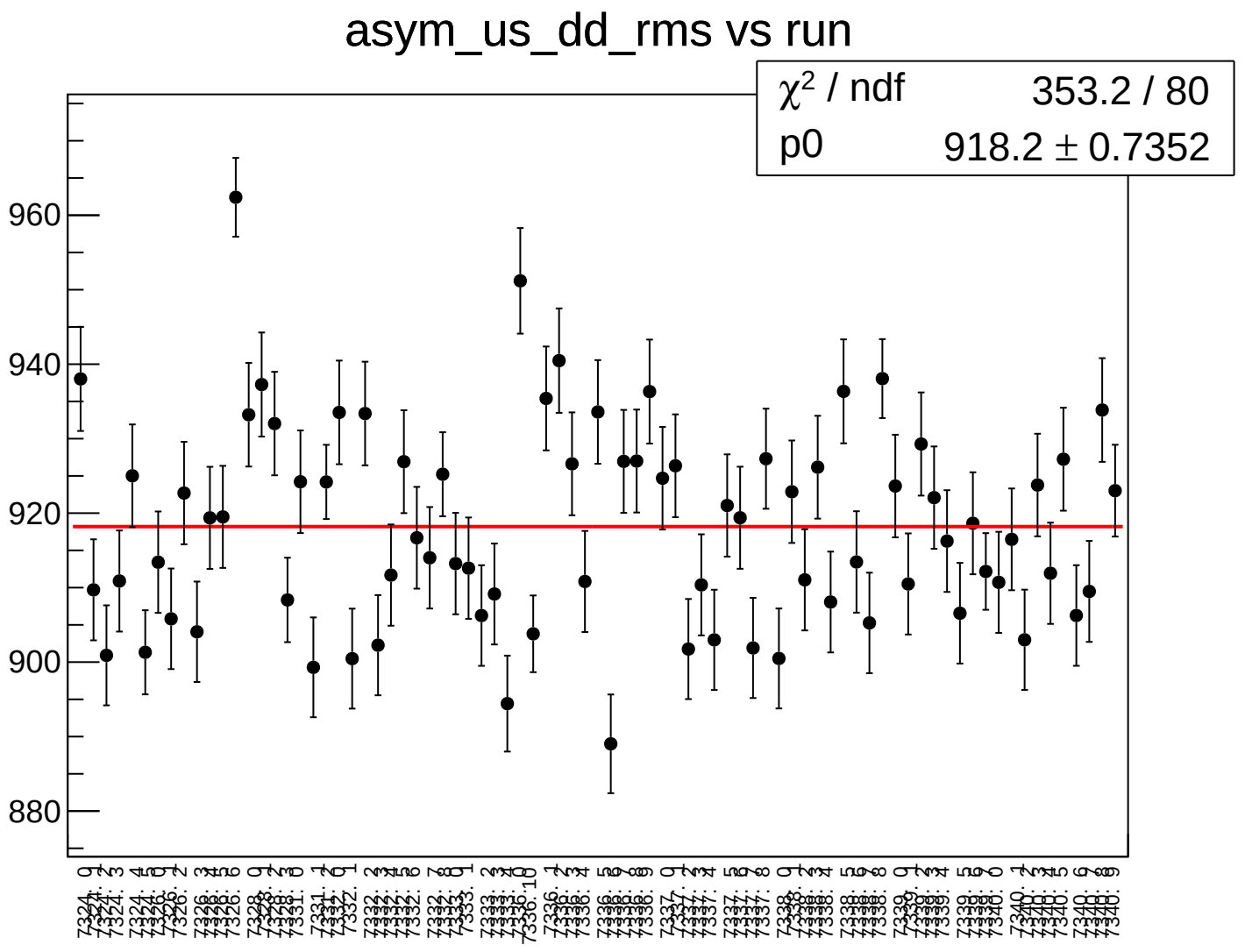

asym_us_dd_correction_mean vs run
χ² / ndf 72.14 / 80
p0 −160.3 ± 536.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 688
Std Dev 622.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

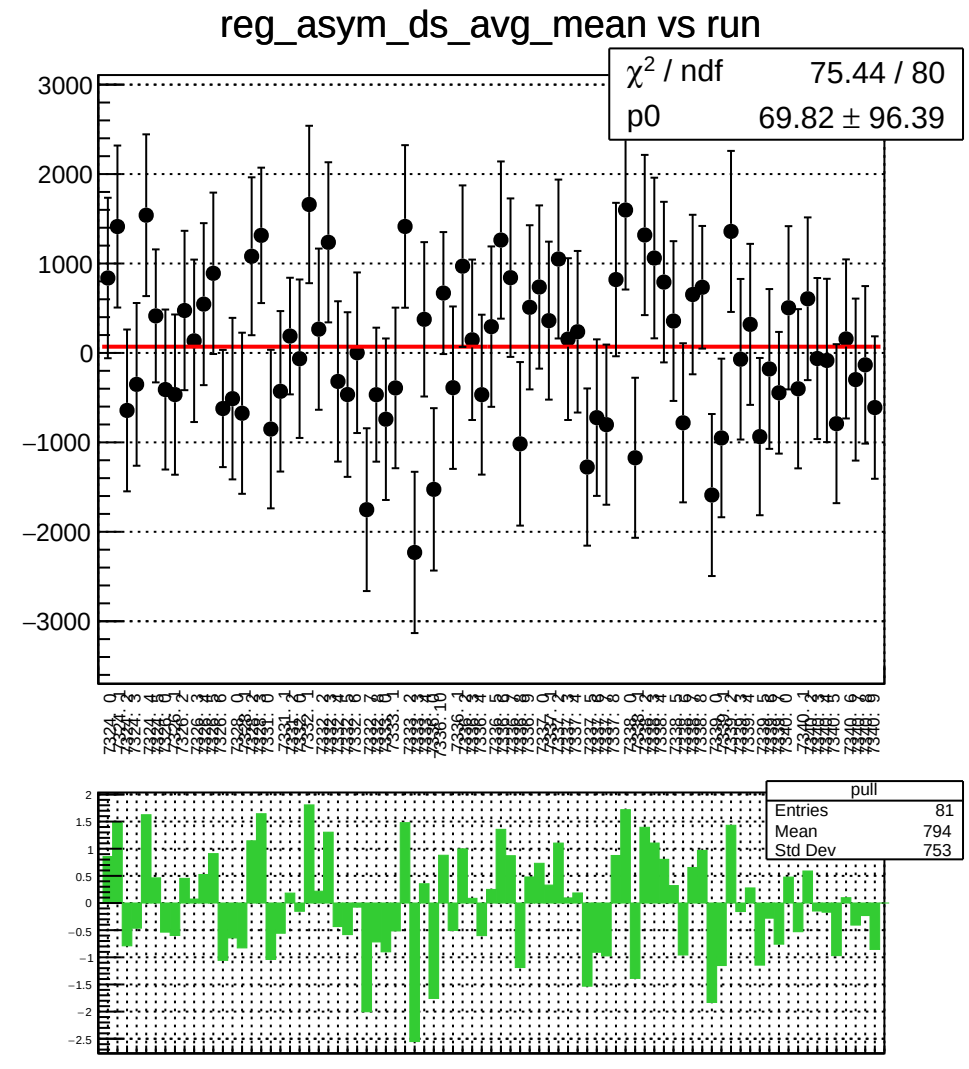

pull1D
Entries 81
Mean 0.002251
Std Dev 0.9437
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

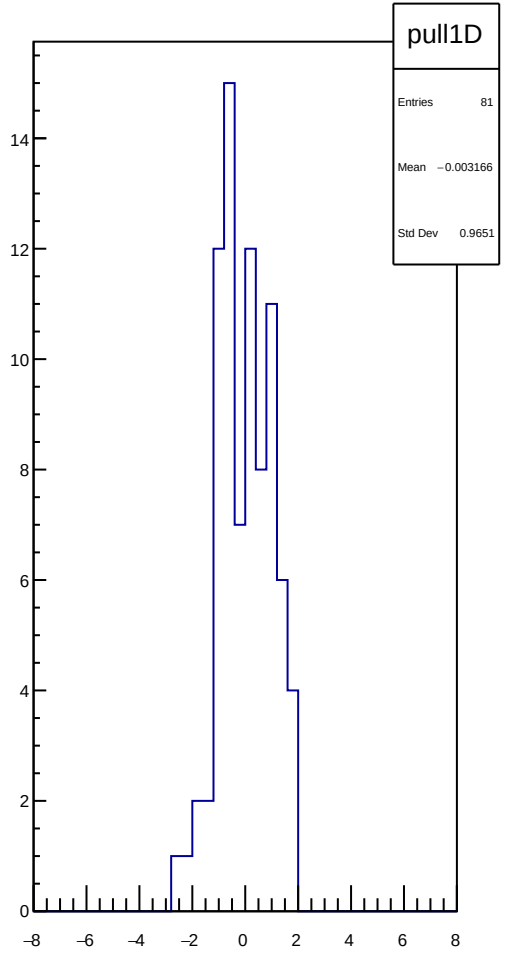

asym_us_dd_correction_rms vs run
χ² / ndf 4319 / 80
p0 473.2 ± 0.3794
560
540
520
500
480
460
440
420

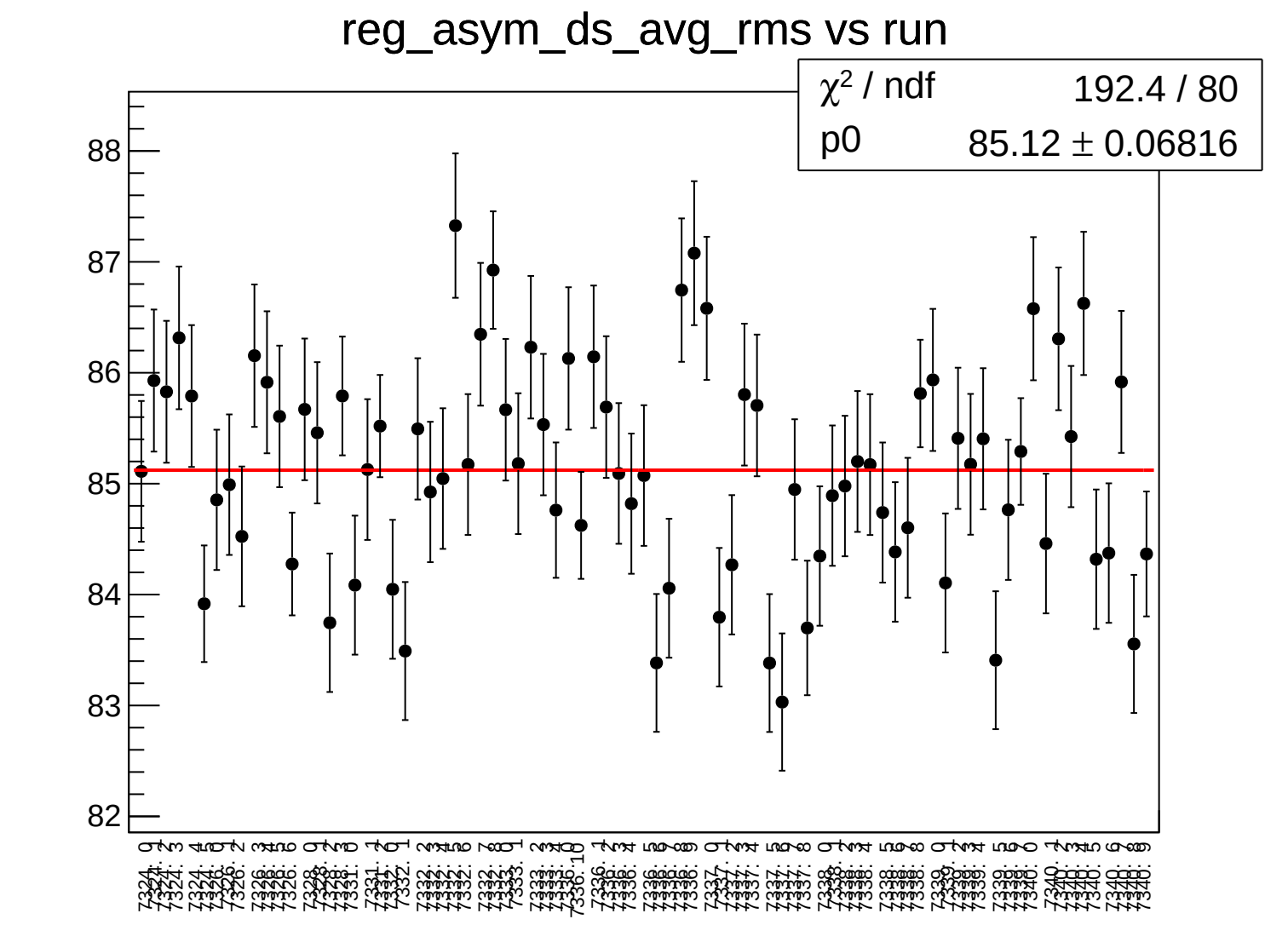

asym_us_dd_mean vs run
χ² / ndf 80.28 / 80
p0 −396.6 ± 1040
pull
Entries 81
Mean 76.88
Std Dev 165.9

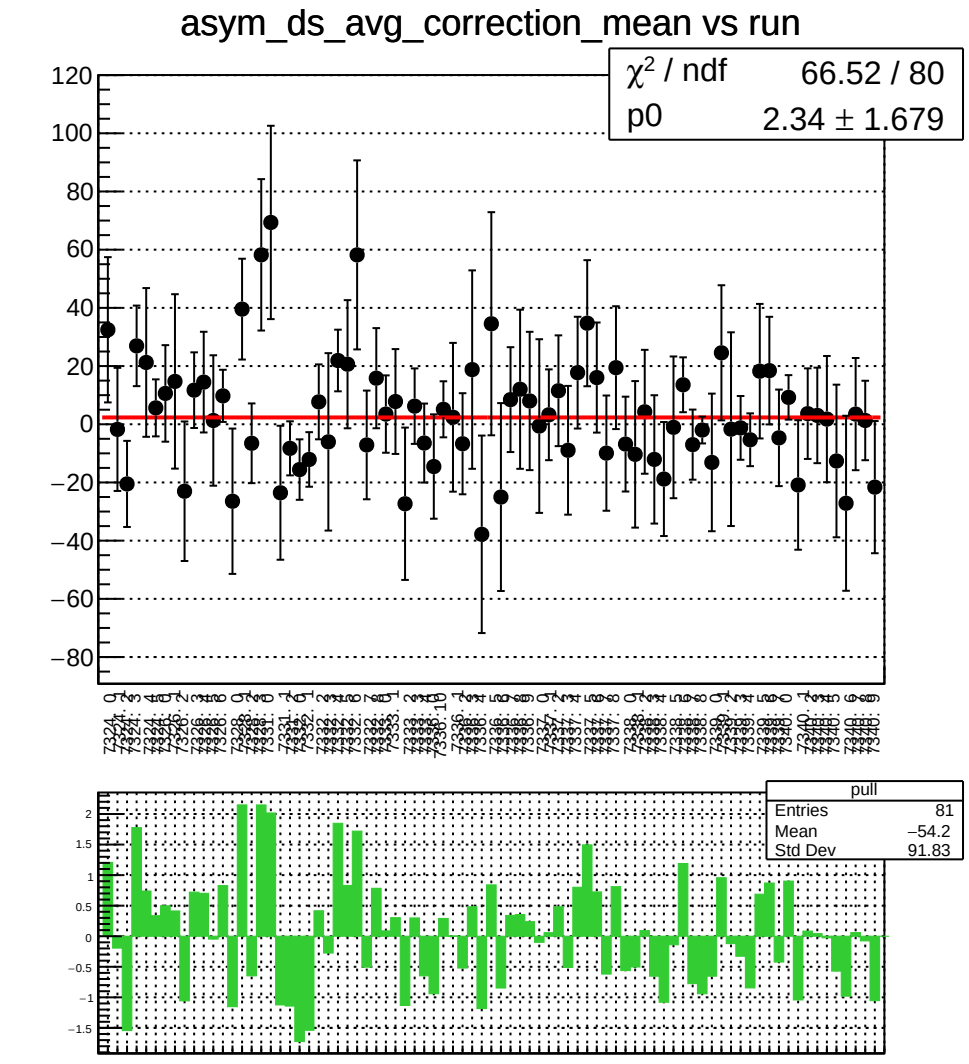

pull1D
Entries 81
Mean −0.003458
Std Dev 0.9955

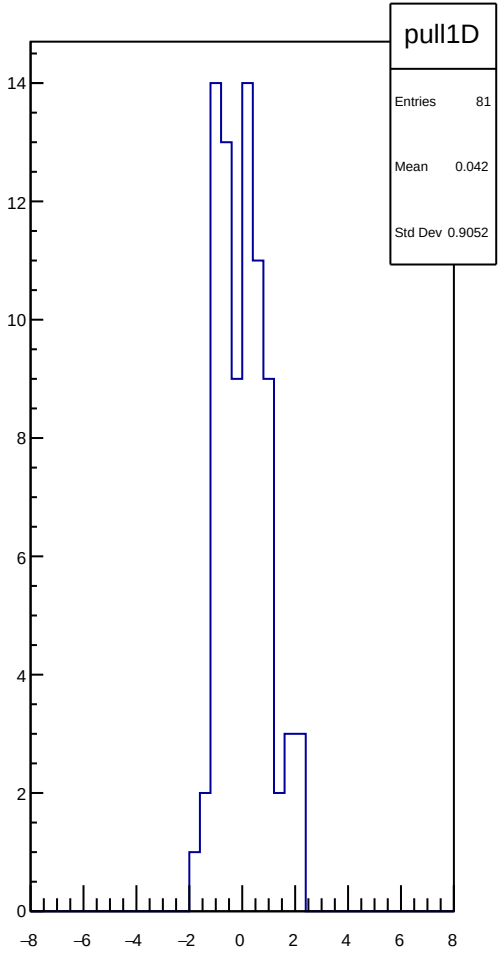

asym_us_dd_rms vs run
χ² / ndf 353.2 / 80
p0 918.2 ± 0.7352
960
940
920
900
880

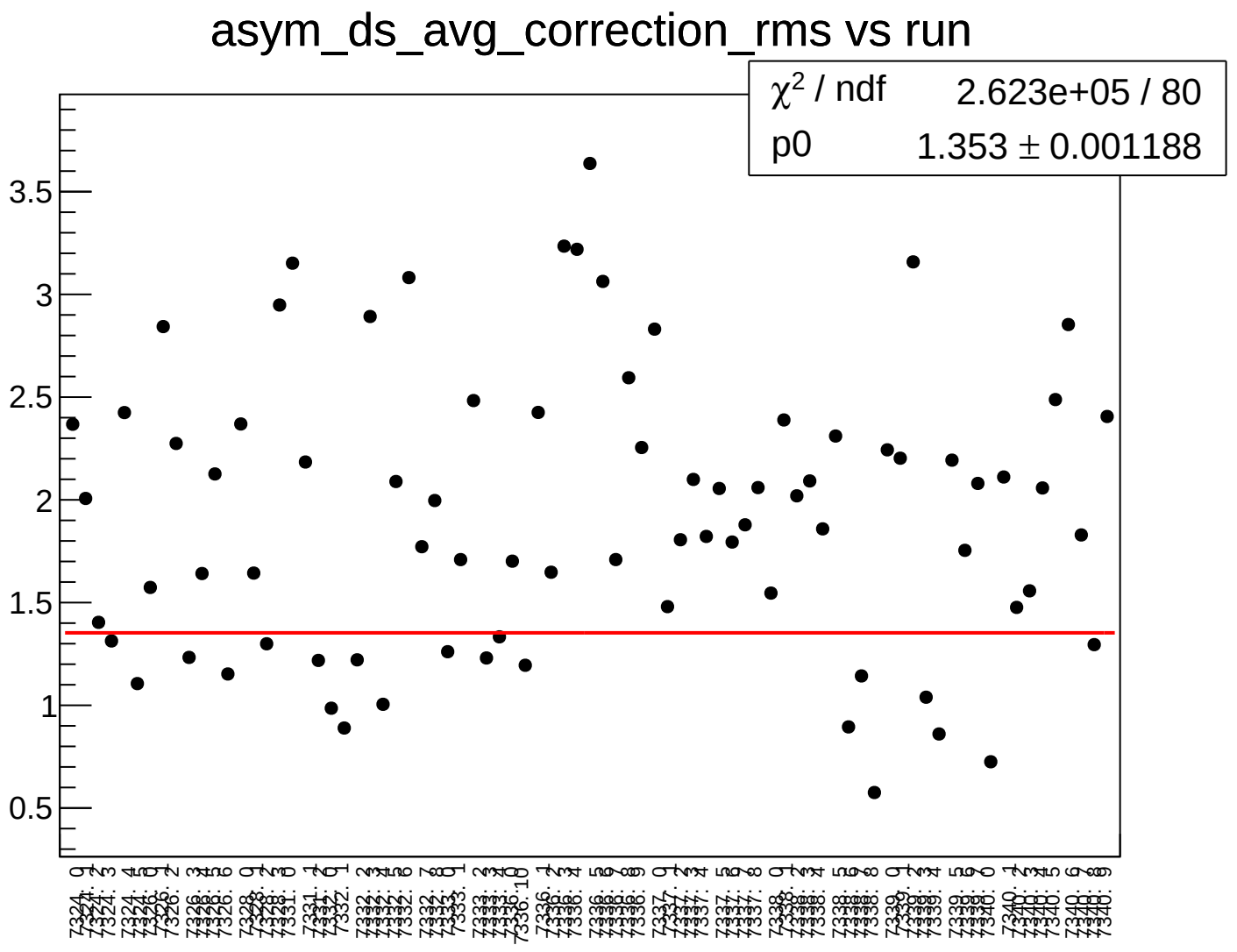

reg_asym_ds_avg_mean vs run
χ² / ndf 75.44 / 80
p0 69.82 ± 96.39
pull
Entries 81
Mean 794
Std Dev 753

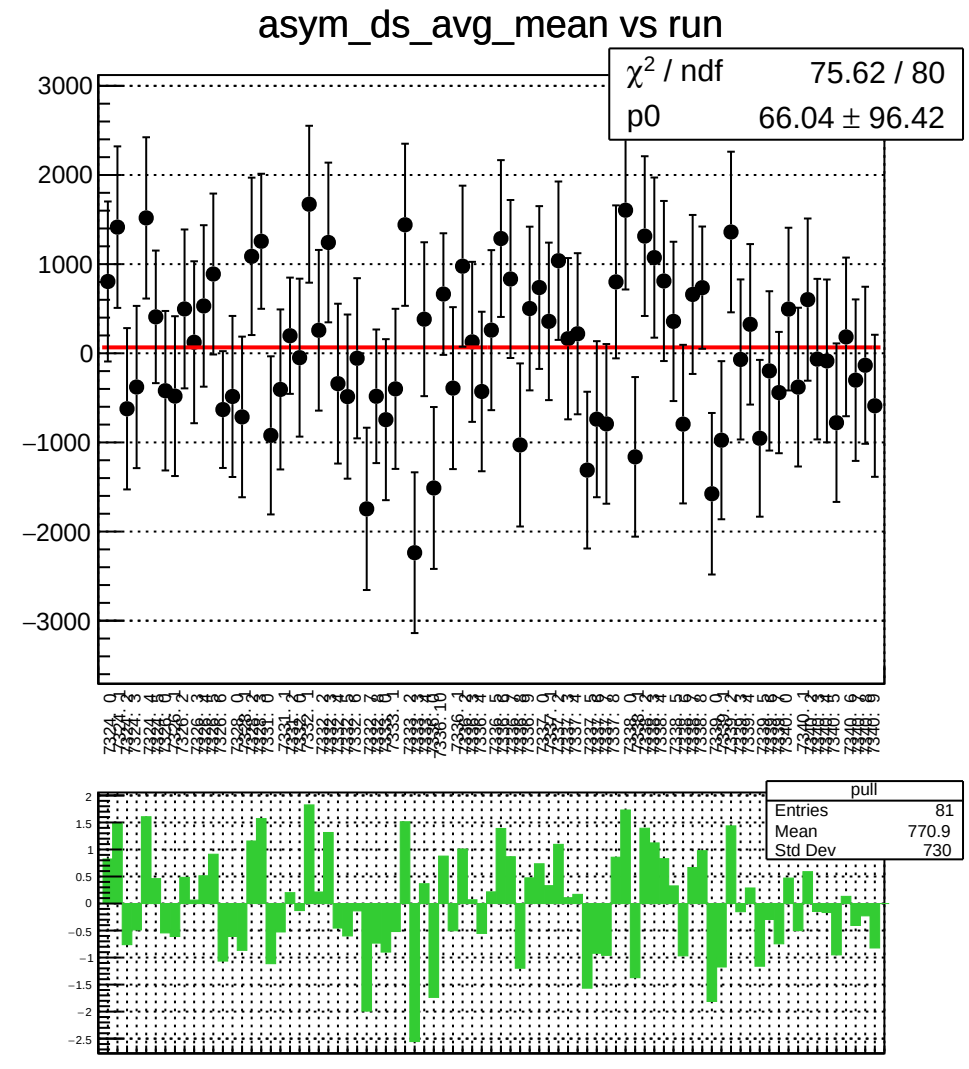

pull1D
Entries 81
Mean −0.003166
Std Dev 0.9651

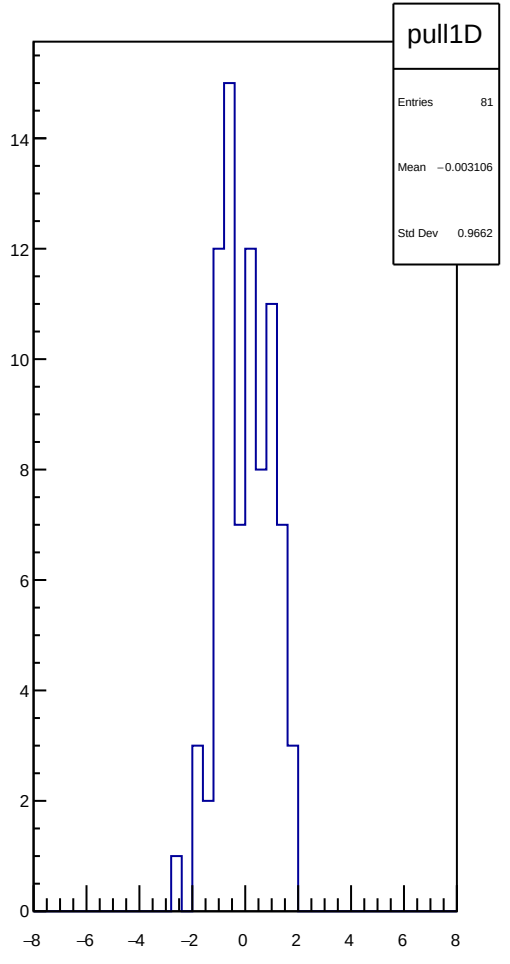

reg_asym_ds_avg_rms vs run
χ² / ndf 192.4 / 80
p0 85.12 ± 0.06816
88
87
86
85
84
83
82

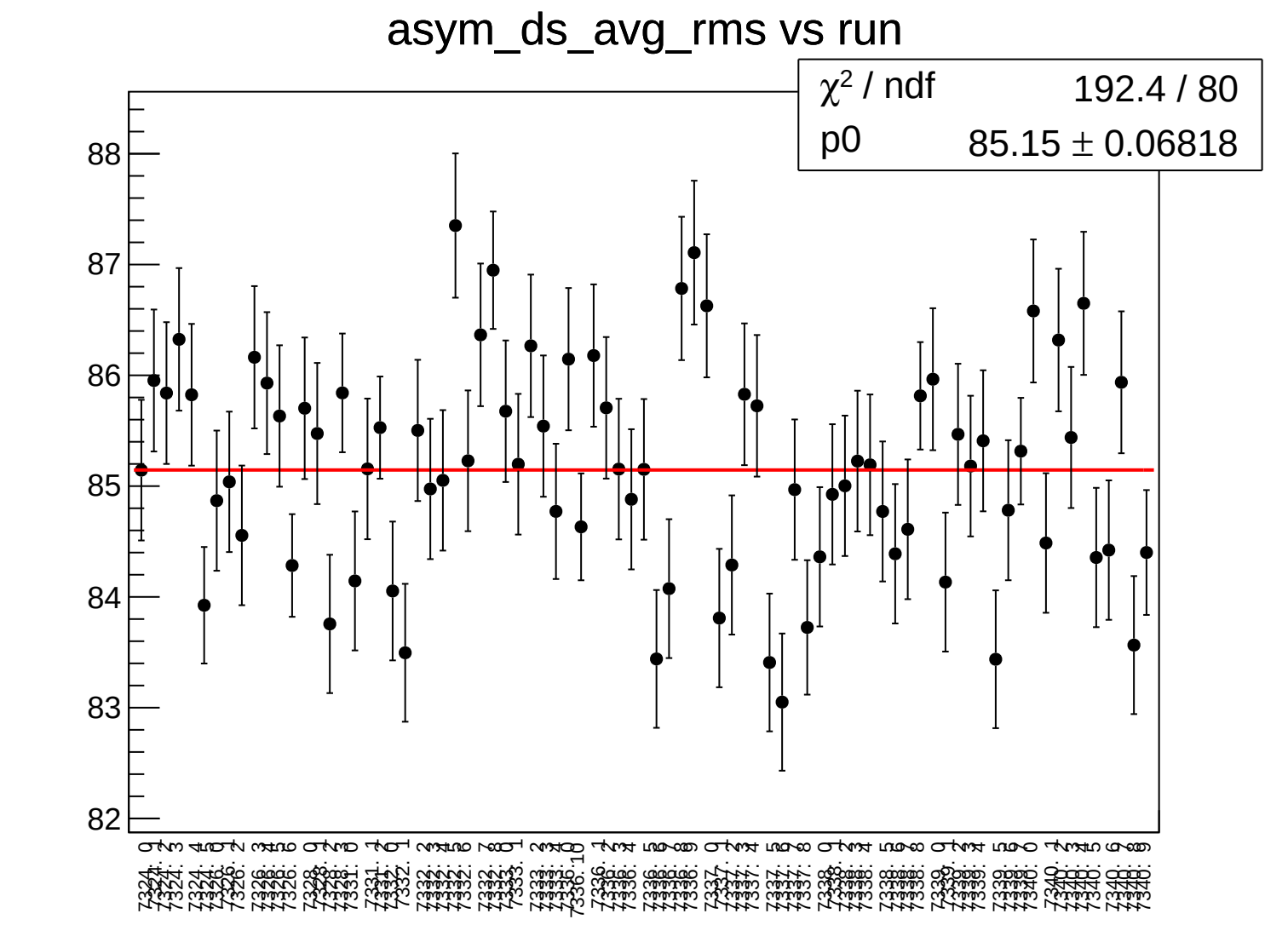

asym_ds_avg_correction_mean vs run
χ² / ndf 66.52 / 80
p0 2.34 ± 1.679
pull
Entries 81
Mean −54.2
Std Dev 91.83

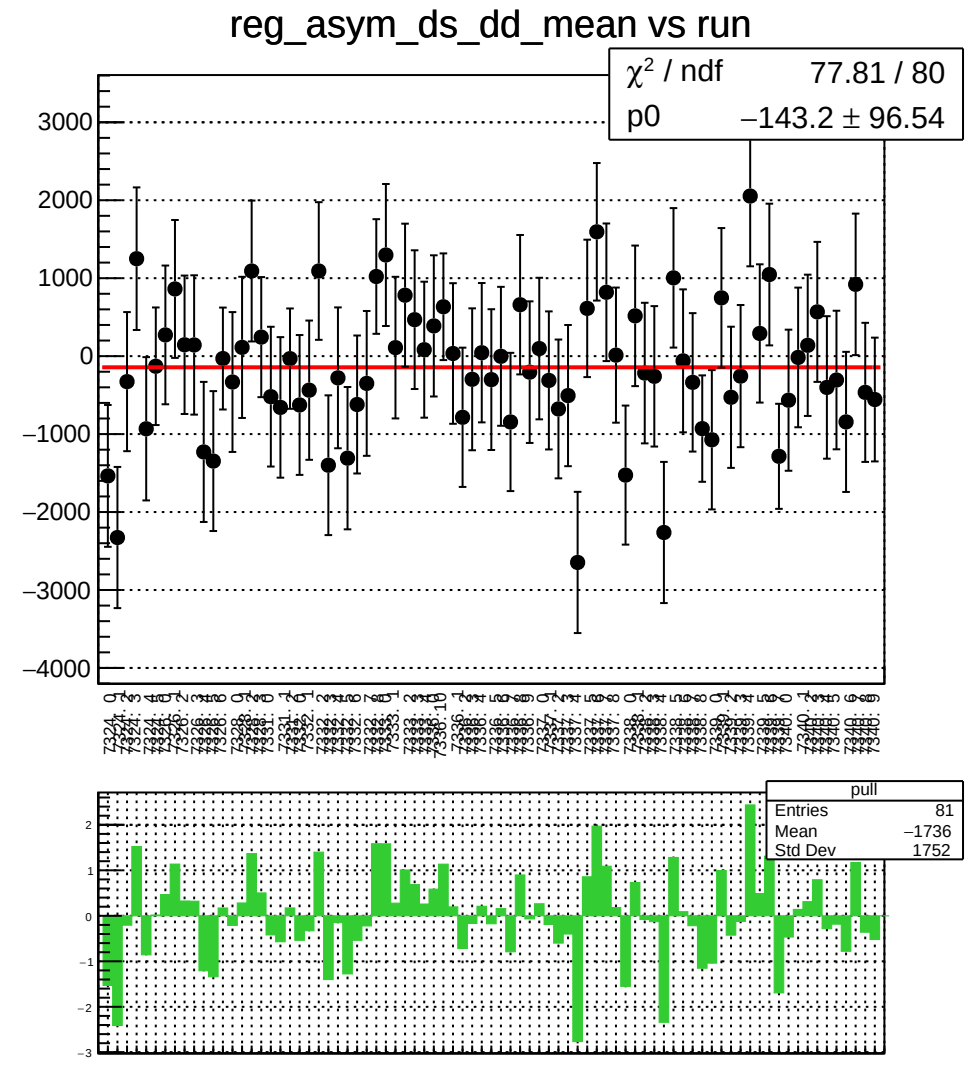

pull1D
Entries 81
Mean 0.042
Std Dev 0.9052

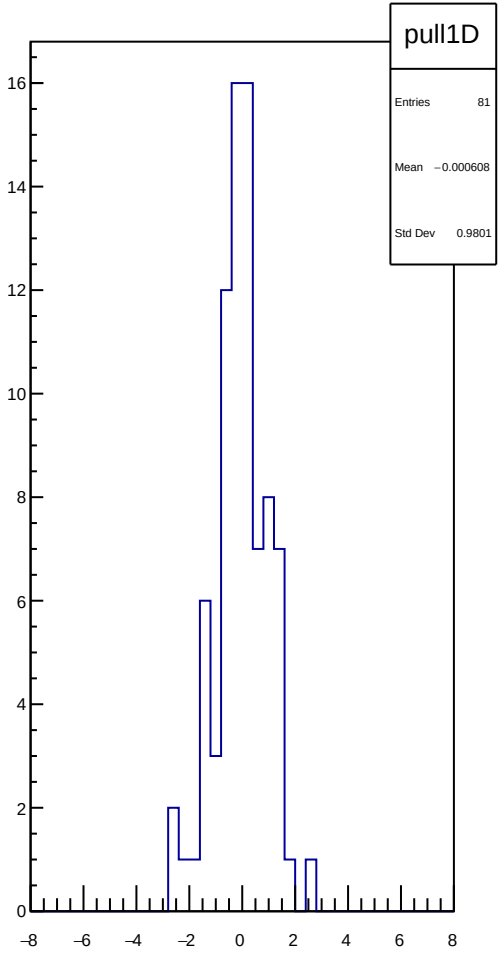

asym_ds_avg_correction_rms vs run
χ^2 / ndf 2.623e+05 / 80
p0 1.353 ± 0.001188
3.5
3
2.5
2
1.5
1
0.5

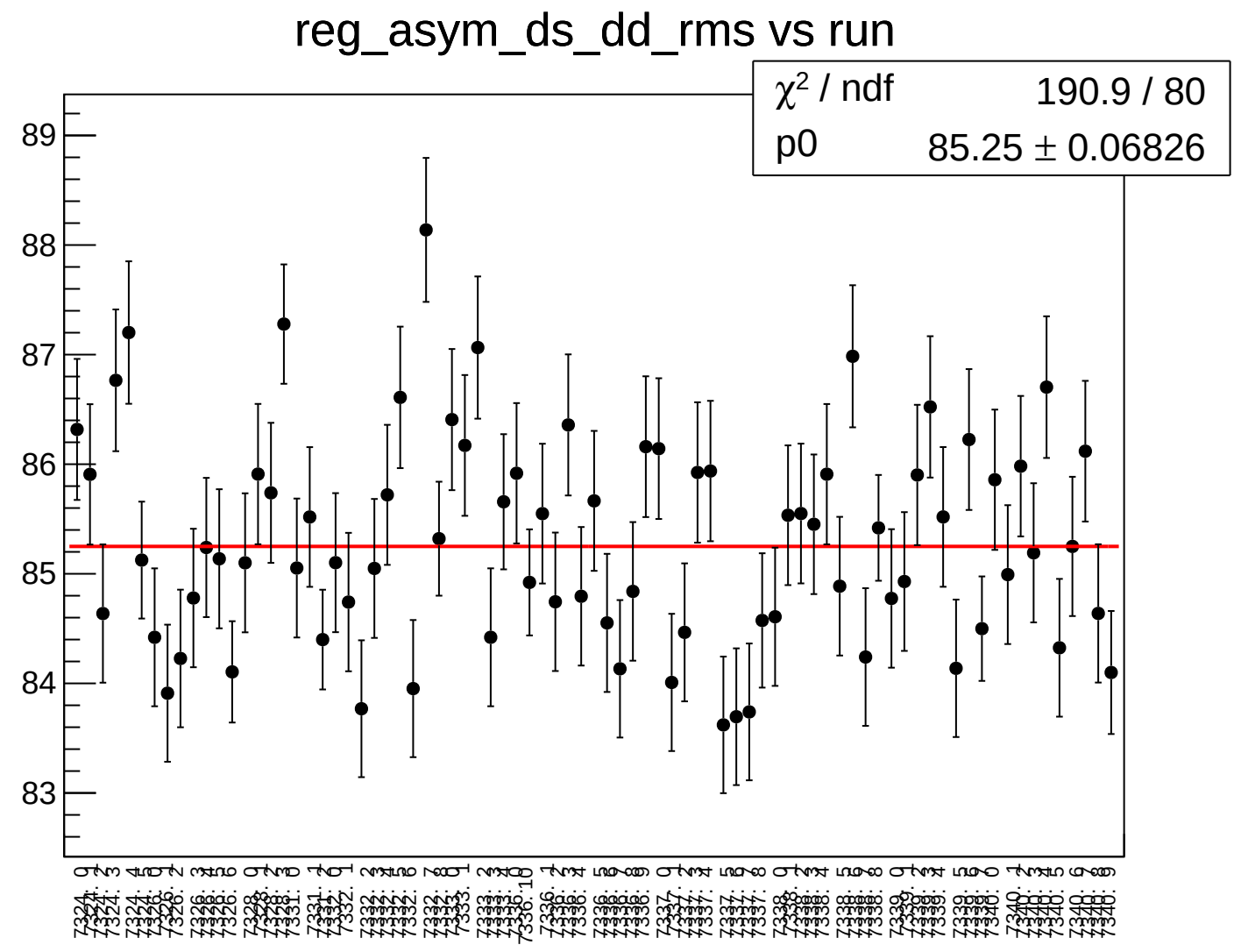

asym_ds_avg_mean vs run
χ² / ndf 75.62 / 80
p0 66.04 ± 96.42
pull
Entries 81
Mean 770.9
Std Dev 730

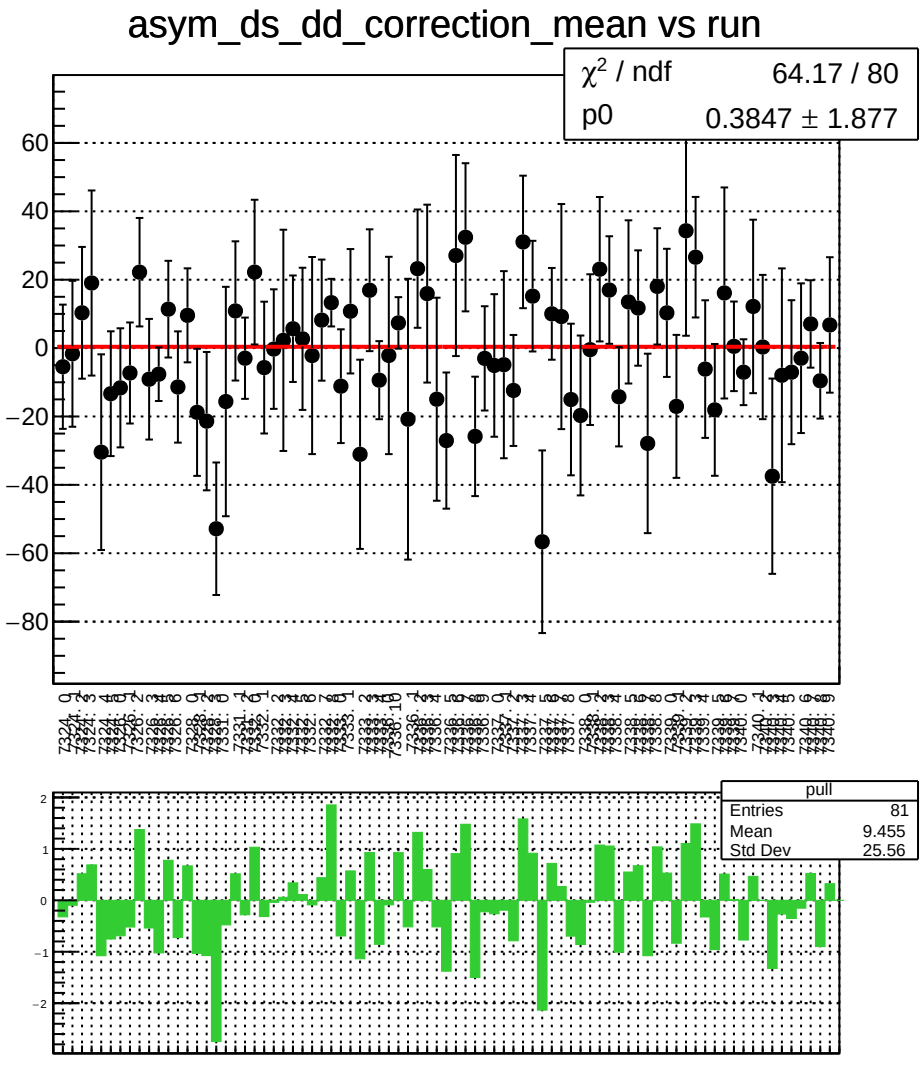

pull1D
Entries 81
Mean −0.003106
Std Dev 0.9662

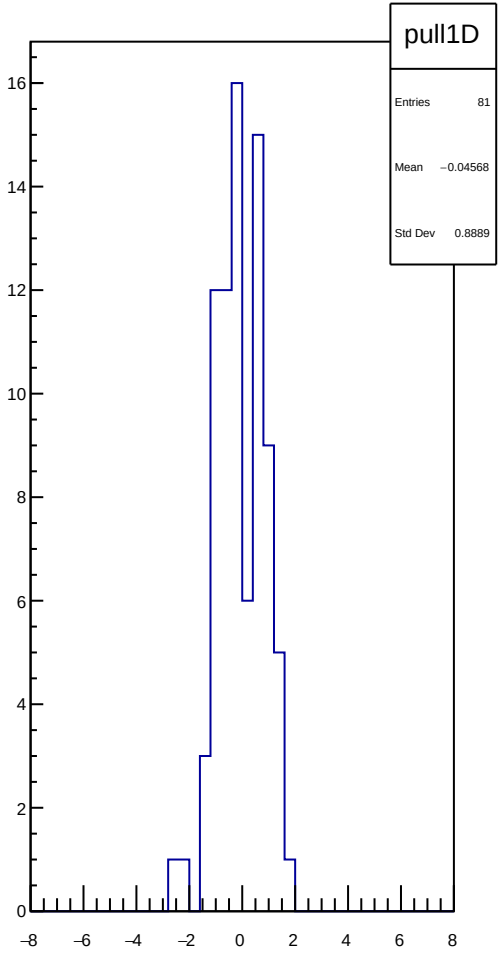

asym_ds_avg_rms vs run
χ^2 / ndf 192.4 / 80
p0 85.15 ± 0.06818
88
87
86
85
84
83
82

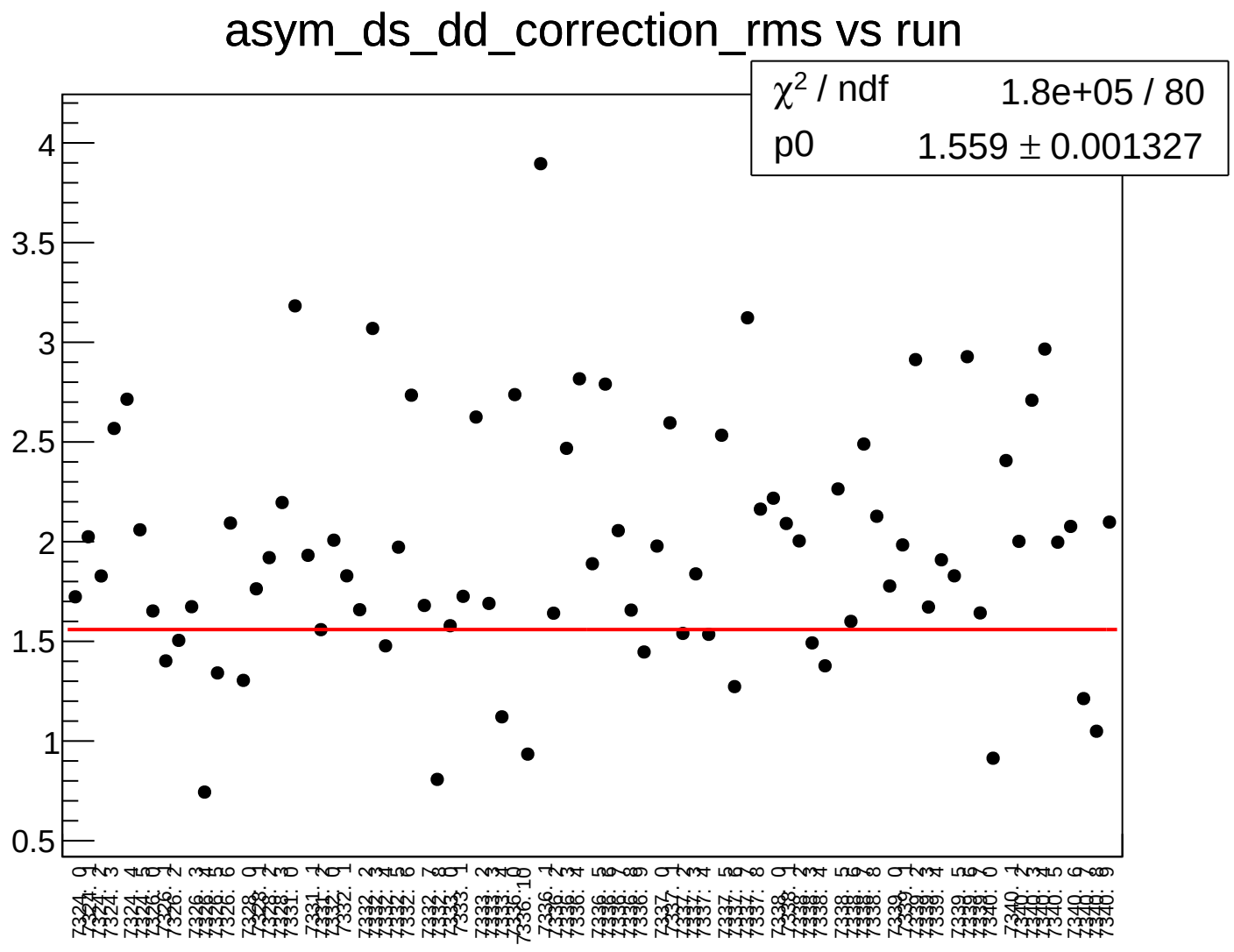

reg_asym_ds_dd_mean vs run
χ² / ndf 77.81 / 80
p0 −143.2 ± 96.54
pull
Entries 81
Mean −1736
Std Dev 1752

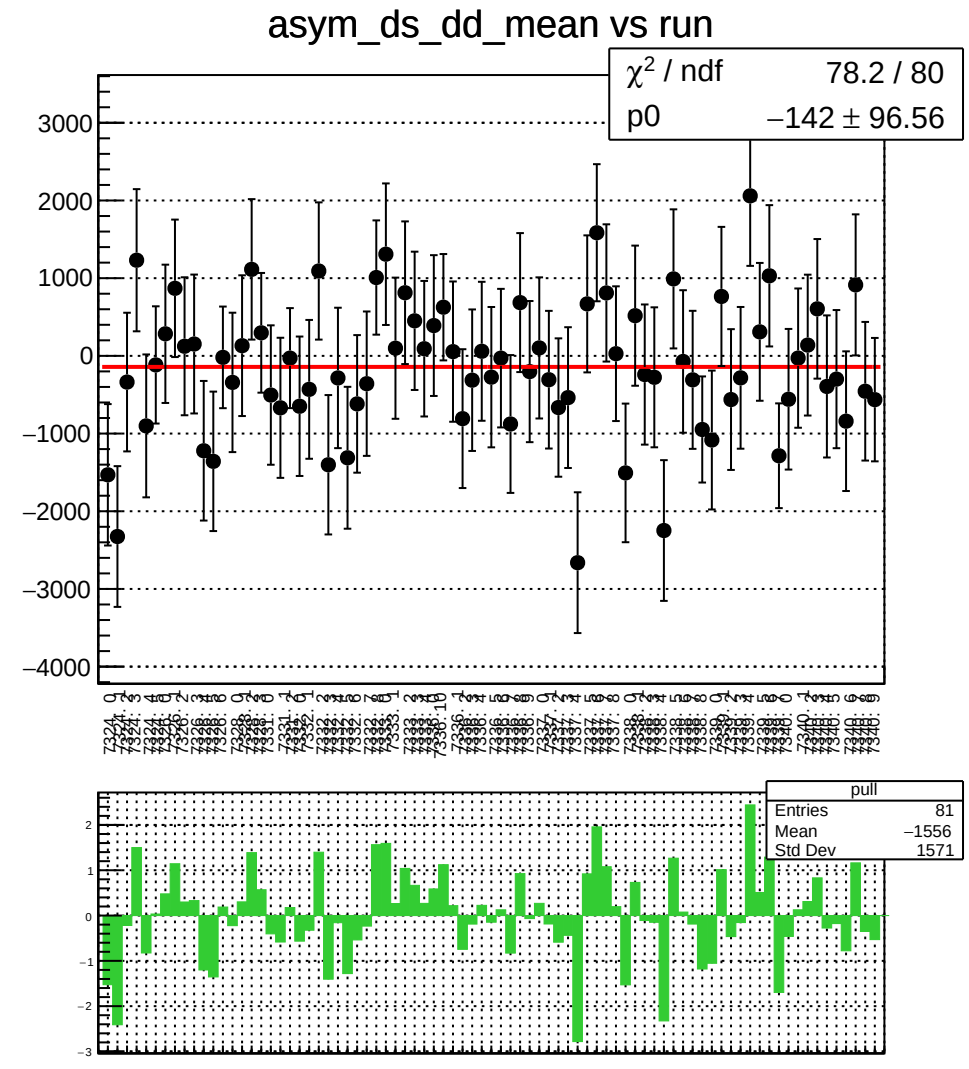

pull1D
Entries 81
Mean −0.000608
Std Dev 0.9801

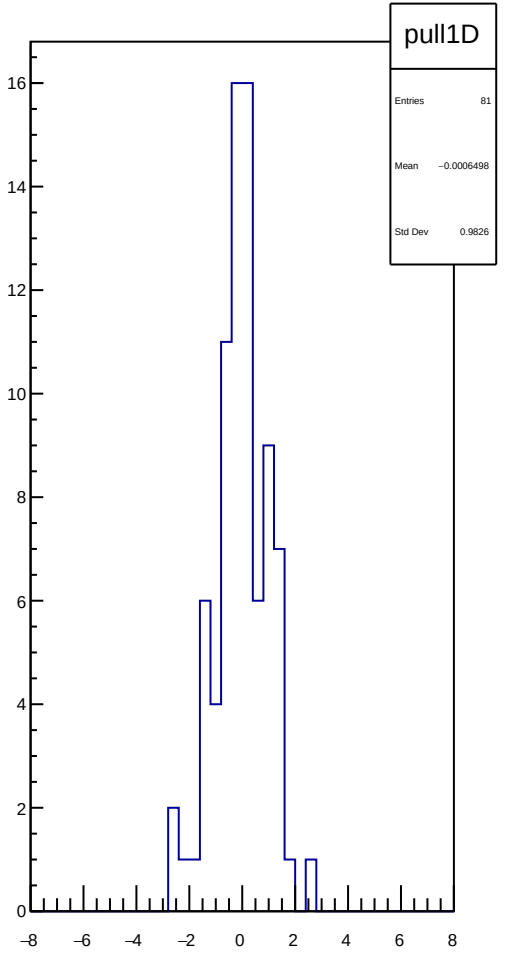

reg_asym_ds_dd_rms vs run
χ^2 / ndf 190.9 / 80
p0 85.25 ± 0.06826
89
88
87
86
85
84
83

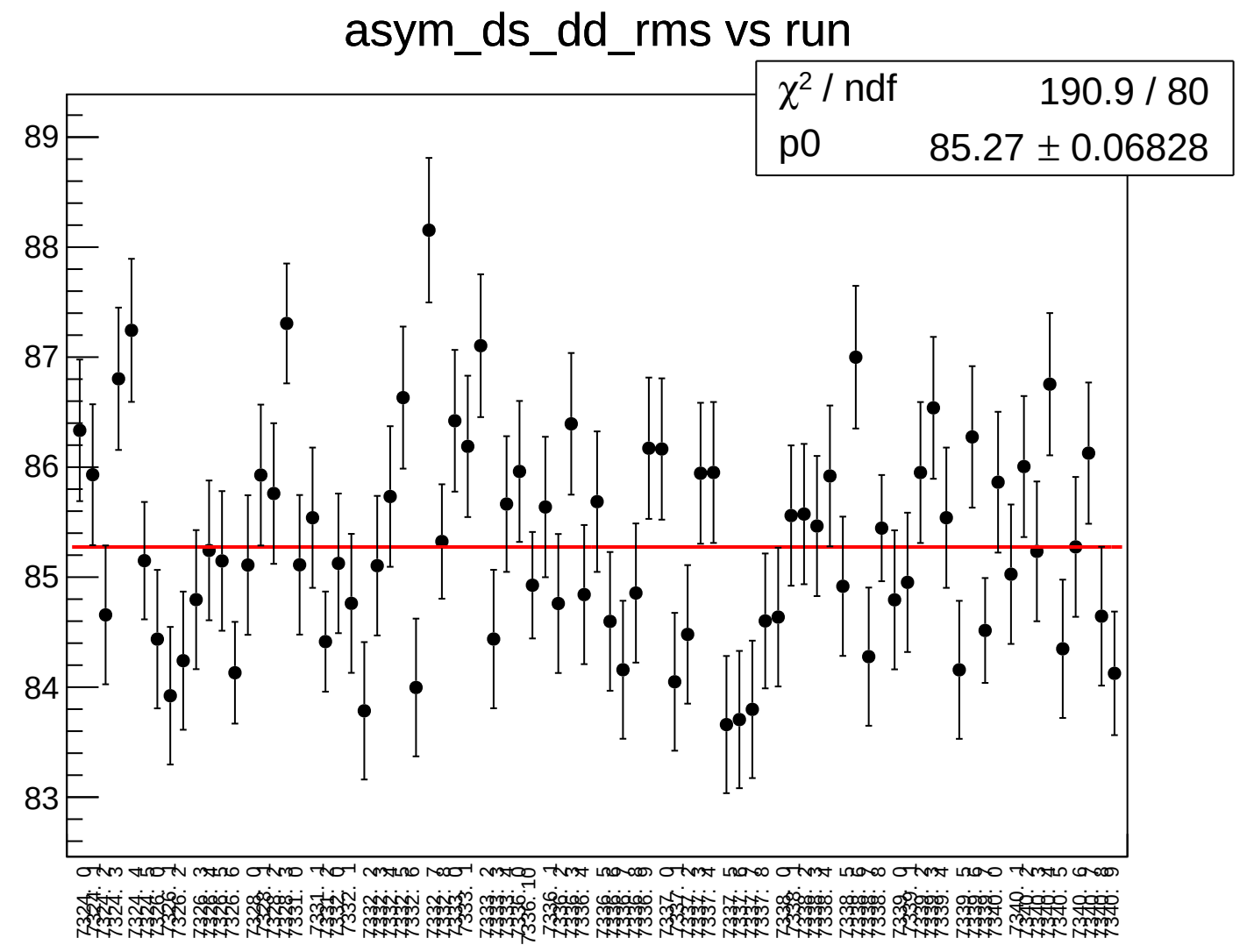

asym_ds_dd_correction_mean vs run
χ² / ndf 64.17 / 80
p0 0.3847 ± 1.877
pull
Entries 81
Mean 9.455
Std Dev 25.56

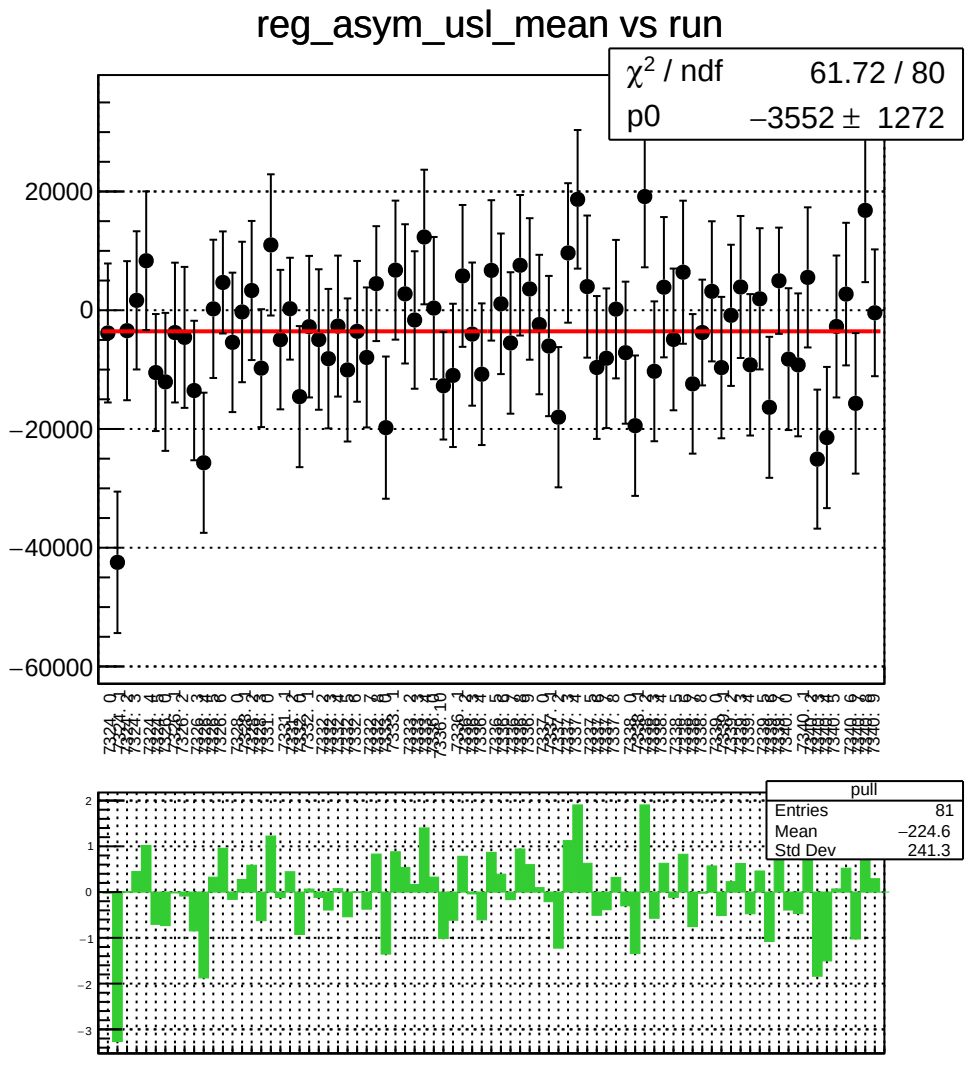

pull1D
Entries 81
Mean −0.04568
Std Dev 0.8889

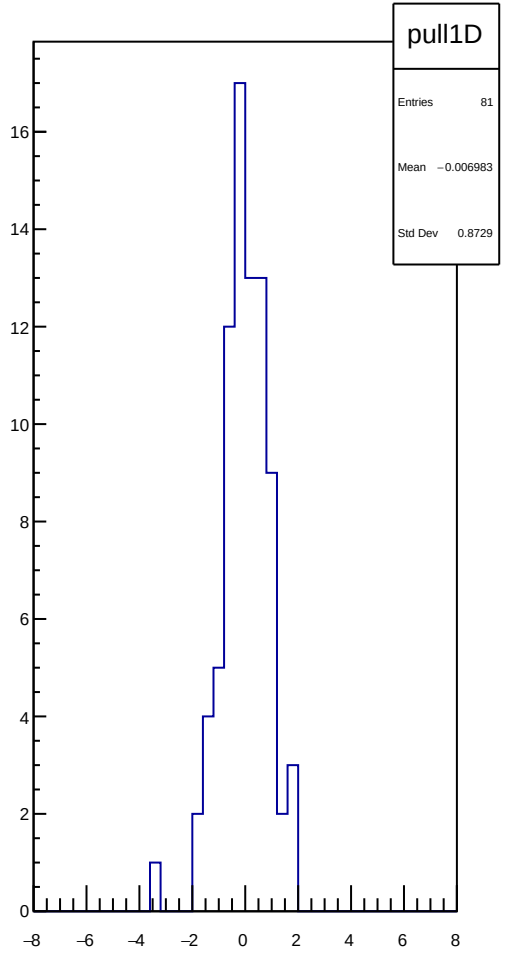

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.8e+05 / 80
p0 1.559 ± 0.001327
4
3.5
3
2.5
2
1.5
1
0.5

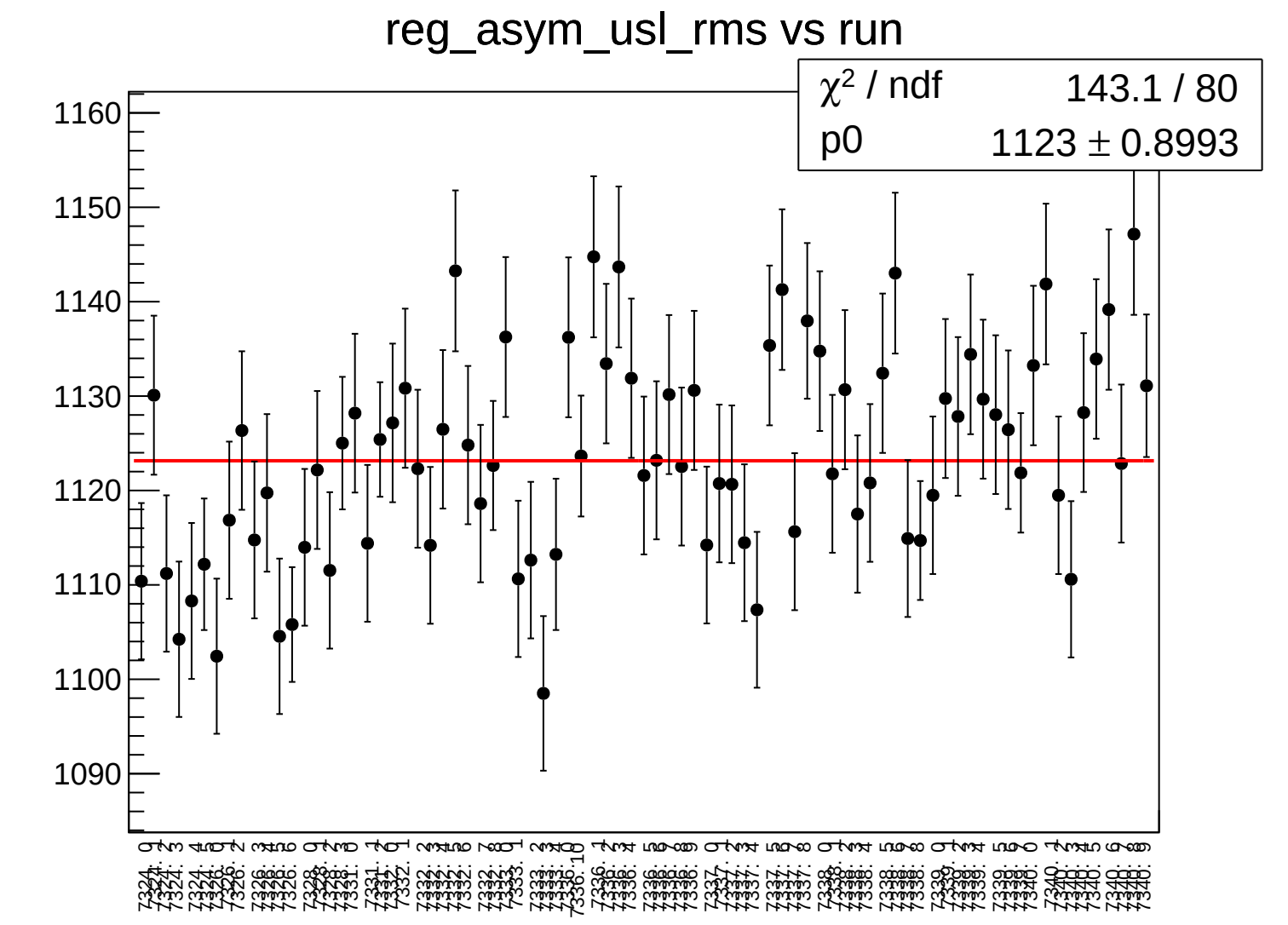

asym_ds_dd_mean vs run
χ² / ndf 78.2 / 80
p0 −142 ± 96.56
pull
Entries 81
Mean −1556
Std Dev 1571

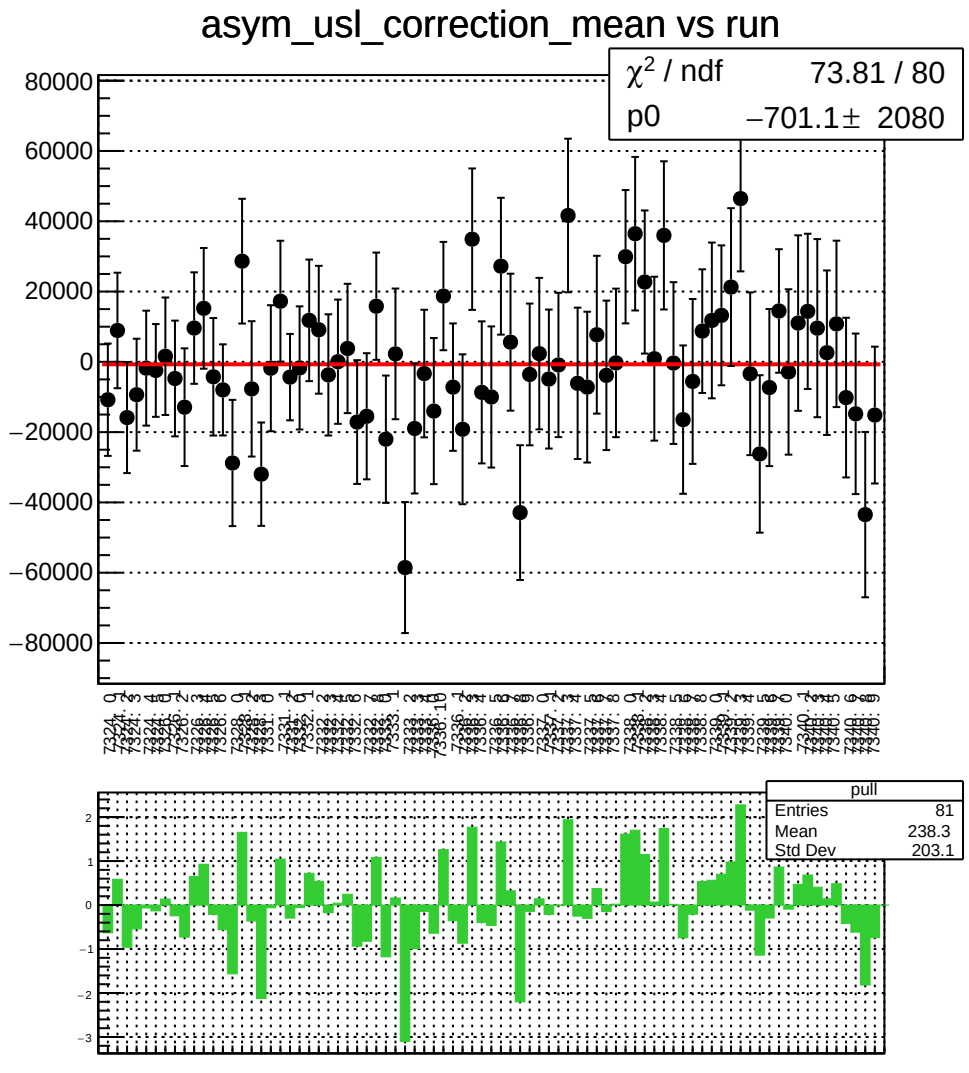

pull1D
Entries 81
Mean −0.0006498
Std Dev 0.9826

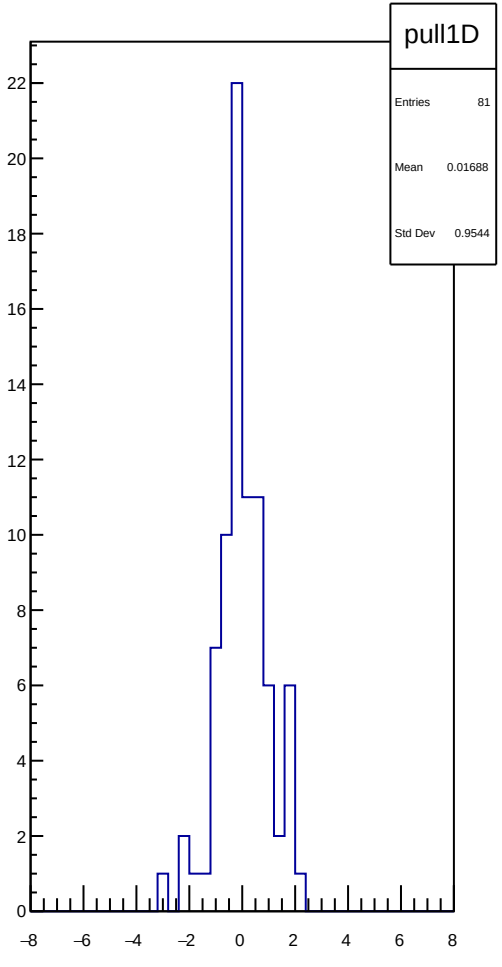

asym_ds_dd_rms vs run
χ^2 / ndf 190.9 / 80
p0 85.27 ± 0.06828
89
88
87
86
85
84
83

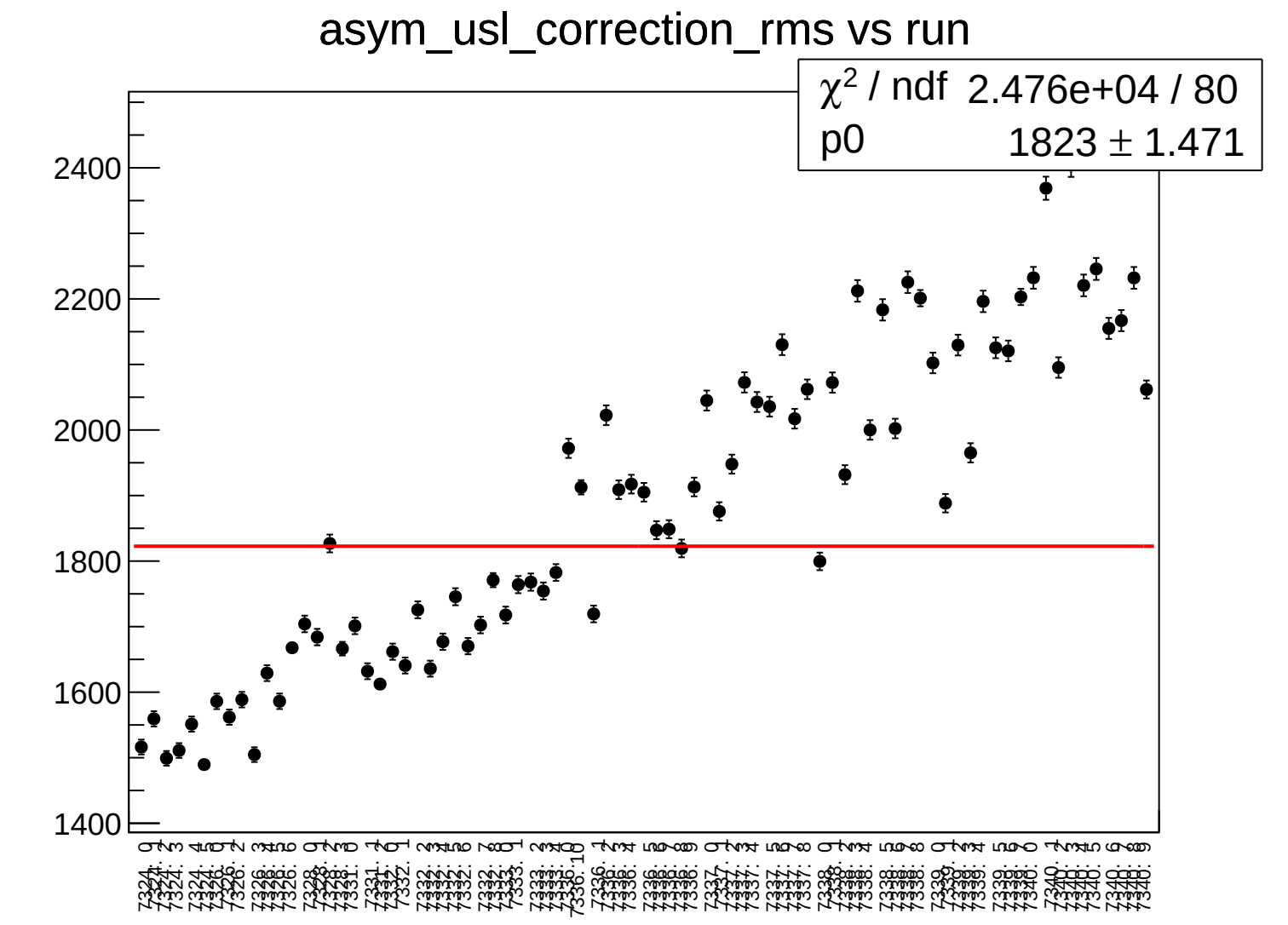

reg_asym_usl_mean vs run
χ² / ndf 61.72 / 80
p0 −3552 ± 1272
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −224.6
Std Dev 241.3
2
1
0
−1
−2
−3

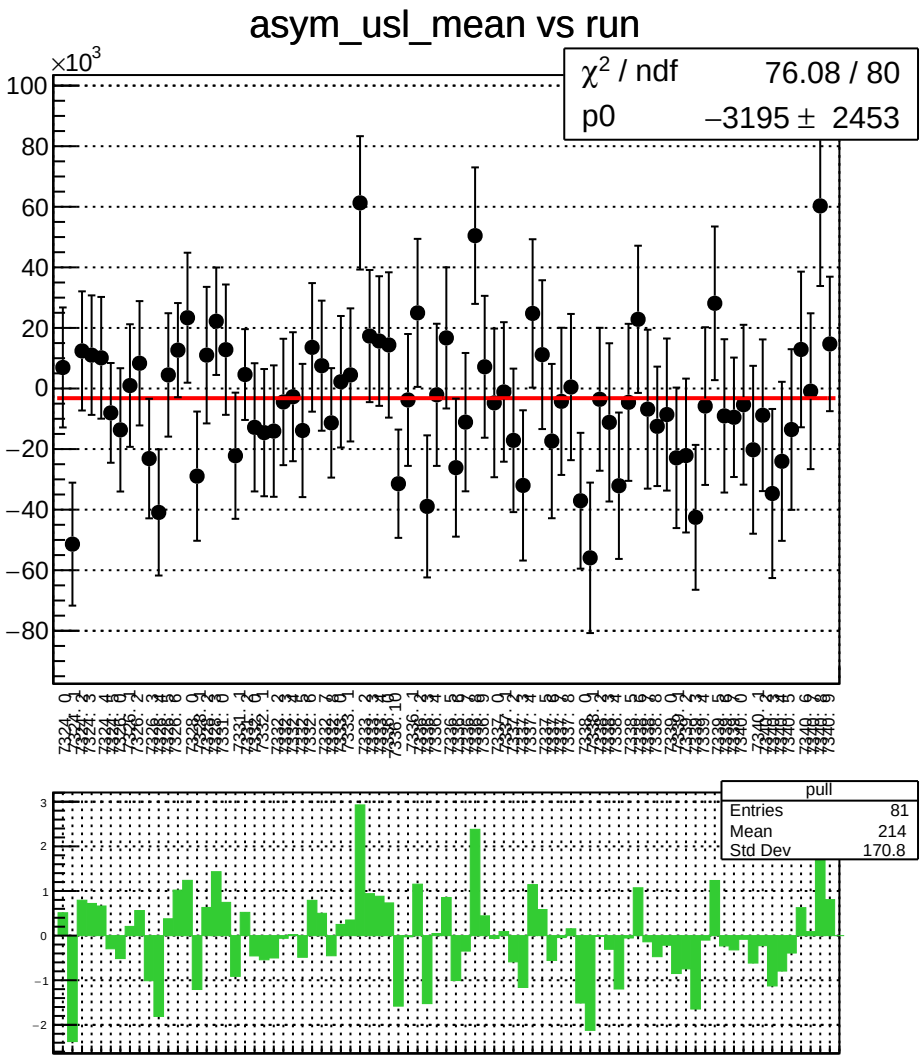

pull1D
Entries 81
Mean −0.006983
Std Dev 0.8729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

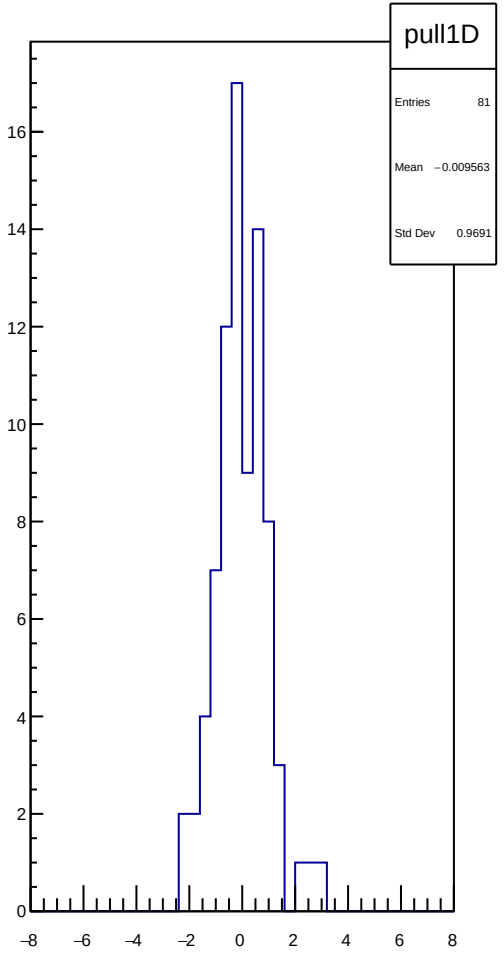

reg_asym_usl_rms vs run
χ² / ndf 143.1 / 80
p0 1123 ± 0.8993
1160
1150
1140
1130
1120
1110
1100
1090

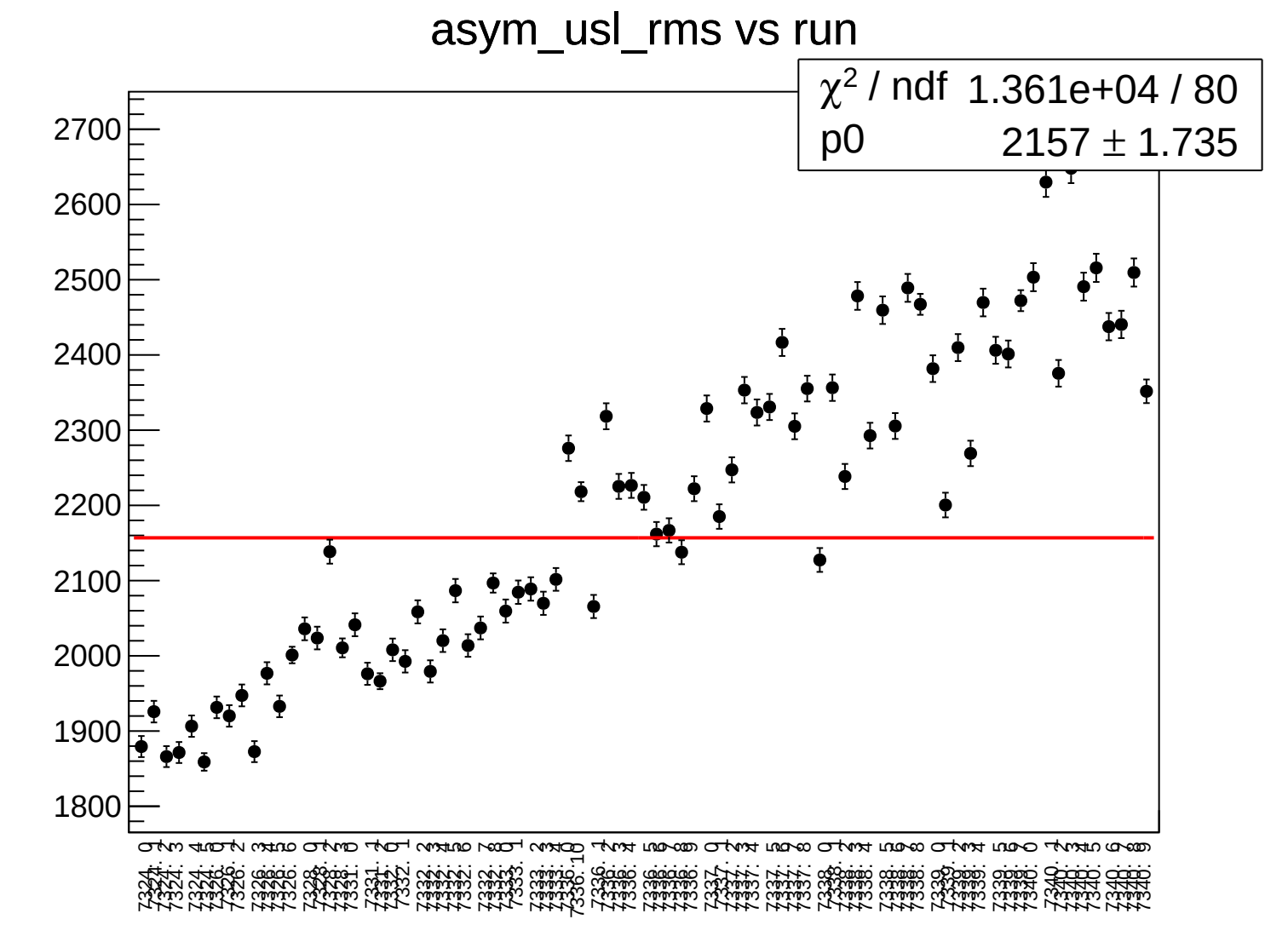

asym_usl_correction_mean vs run
χ^2 / ndf 73.81 / 80
p0 −701.1± 2080
pull
Entries 81
Mean 238.3
Std Dev 203.1

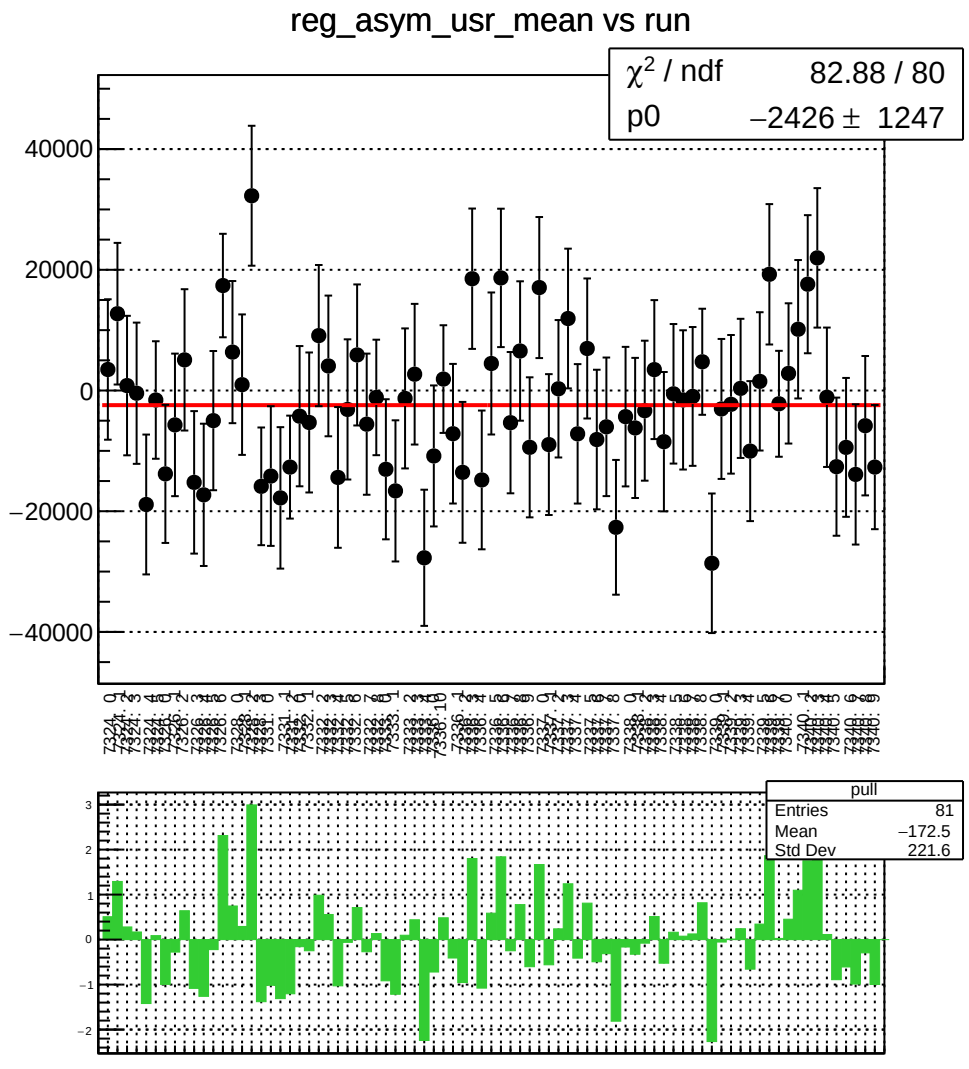

pull1D
Entries 81
Mean 0.01688
Std Dev 0.9544

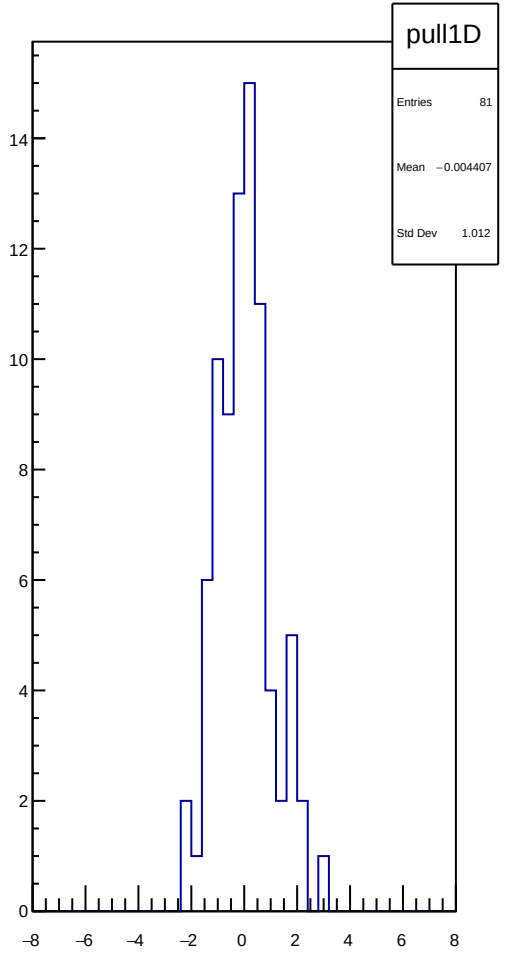

asym_usl_correction_rms vs run
χ² / ndf 2.476e+04 / 80
p0 1823 ± 1.471
2400
2200
2000
1800
1600
1400

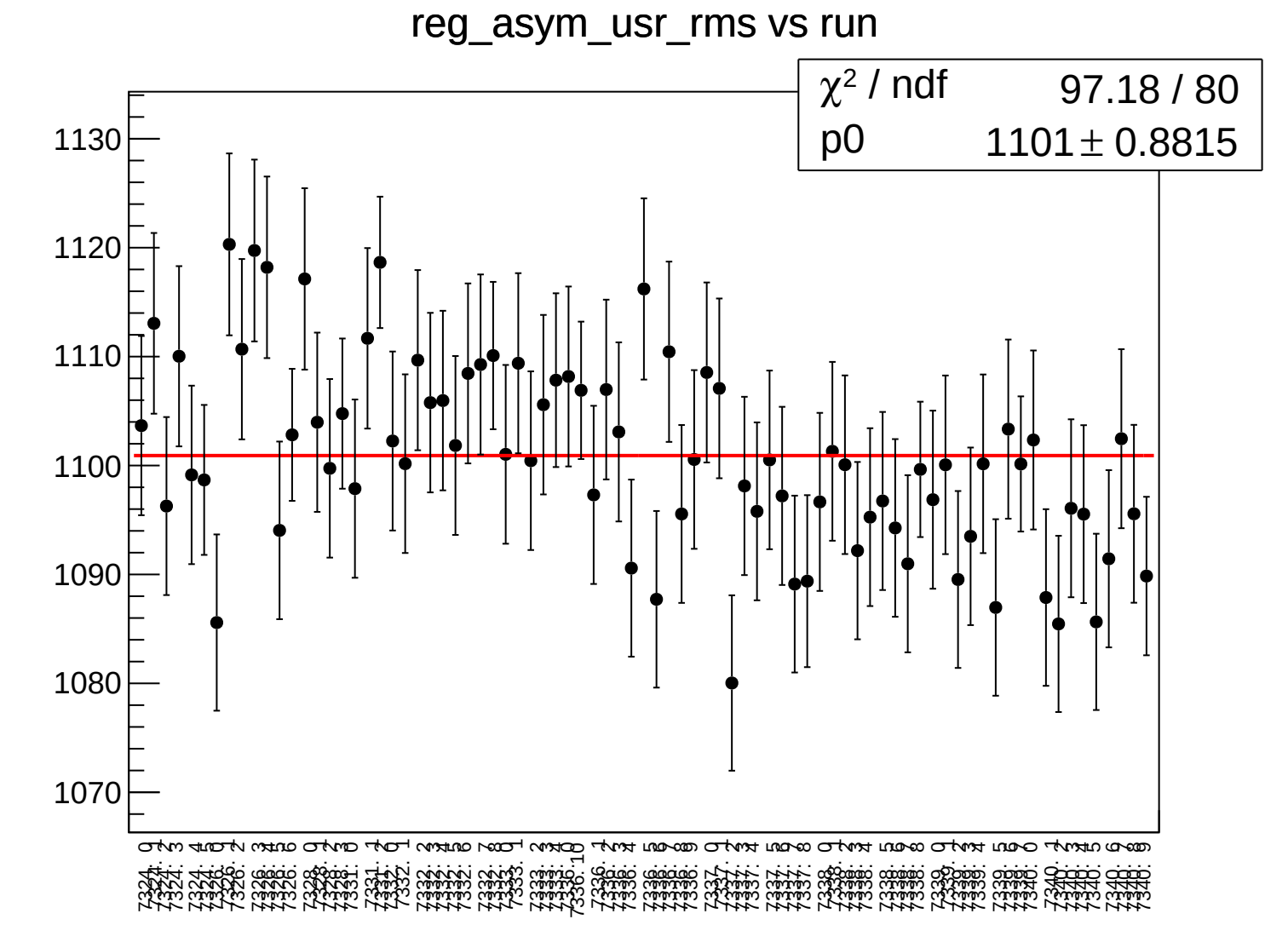

asym_usl_mean vs run
×10^3
χ² / ndf 76.08 / 80
p0 −3195 ± 2453
pull
Entries 81
Mean 214
Std Dev 170.8

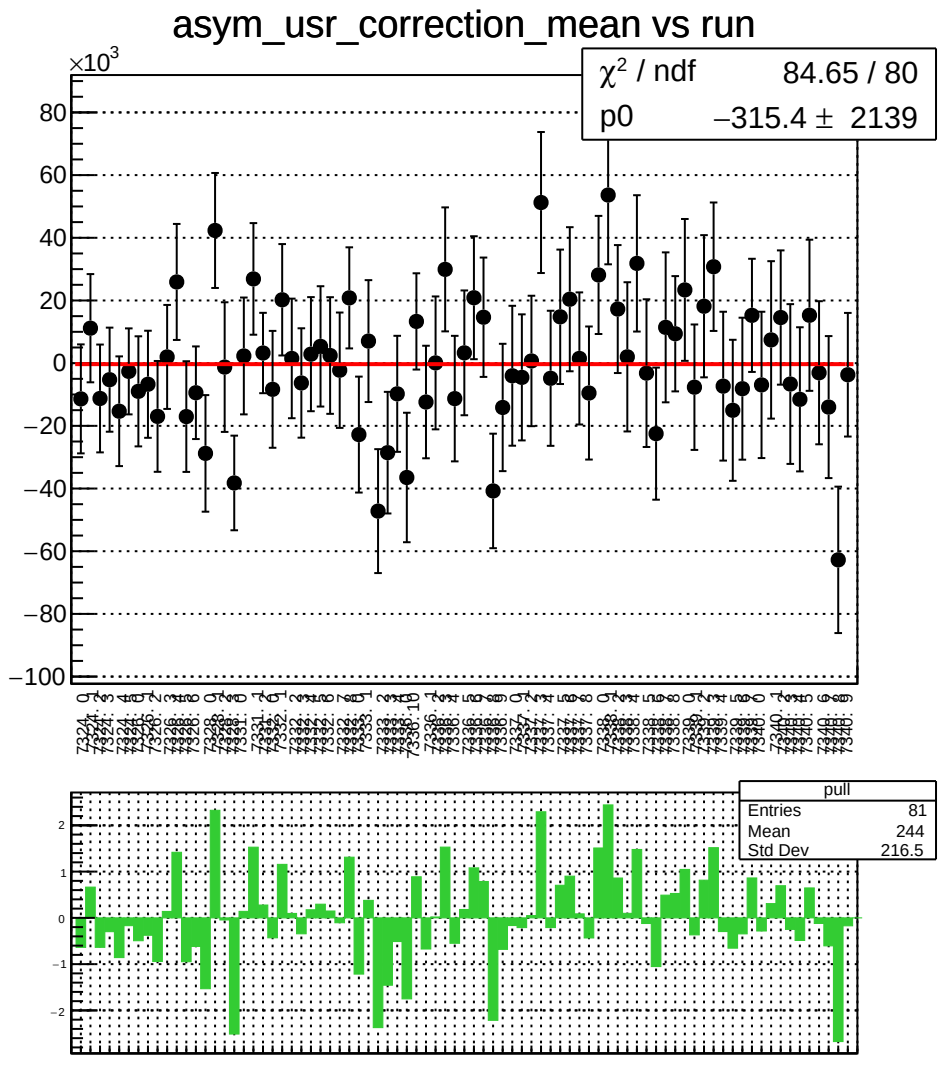

pull1D
Entries 81
Mean −0.009563
Std Dev 0.9691

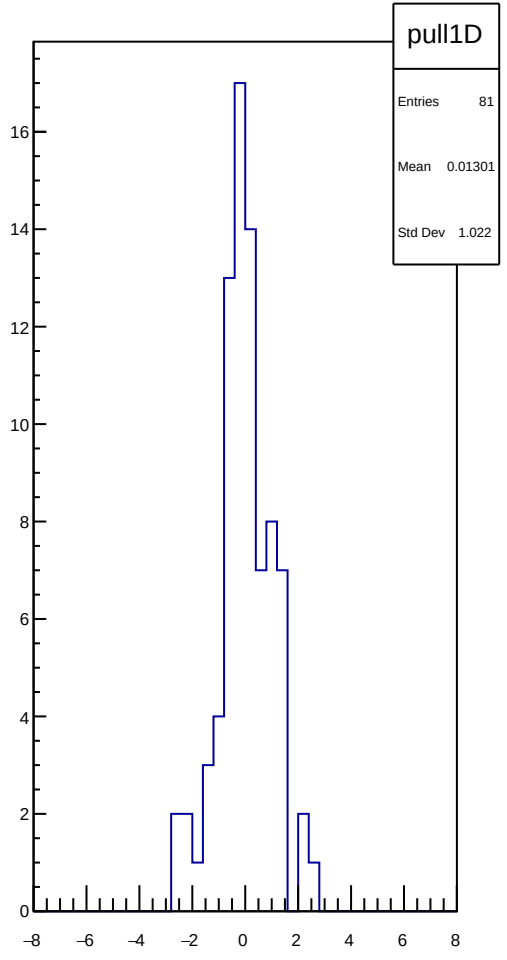

asym_usl_rms vs run
χ² / ndf 1.361e+04 / 80
p0 2157 ± 1.735
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800

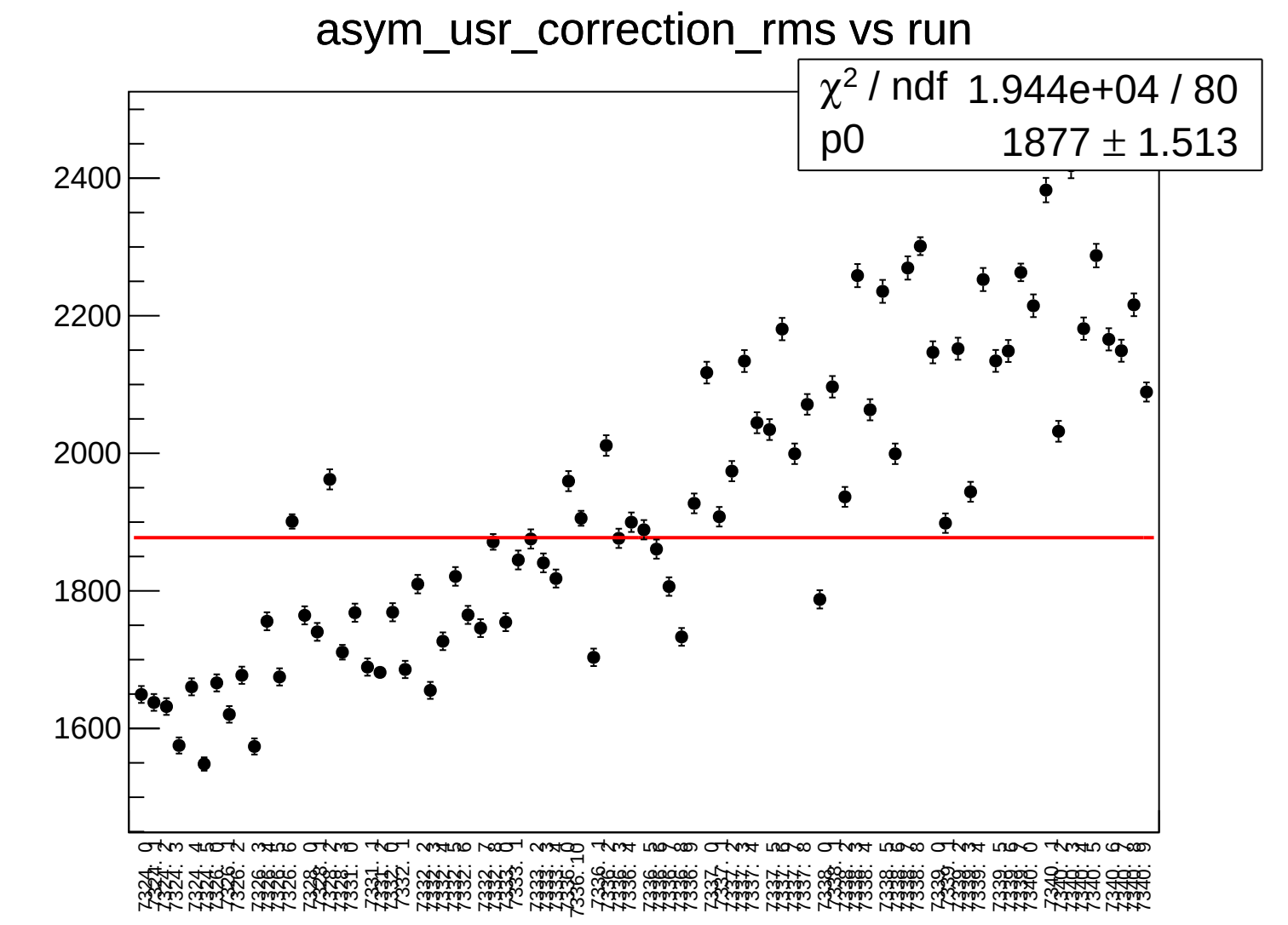

reg_asym_usr_mean vs run
χ² / ndf 82.88 / 80
p0 −2426 ± 1247
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −172.5
Std Dev 221.6
3
2
1
0
−1
−2

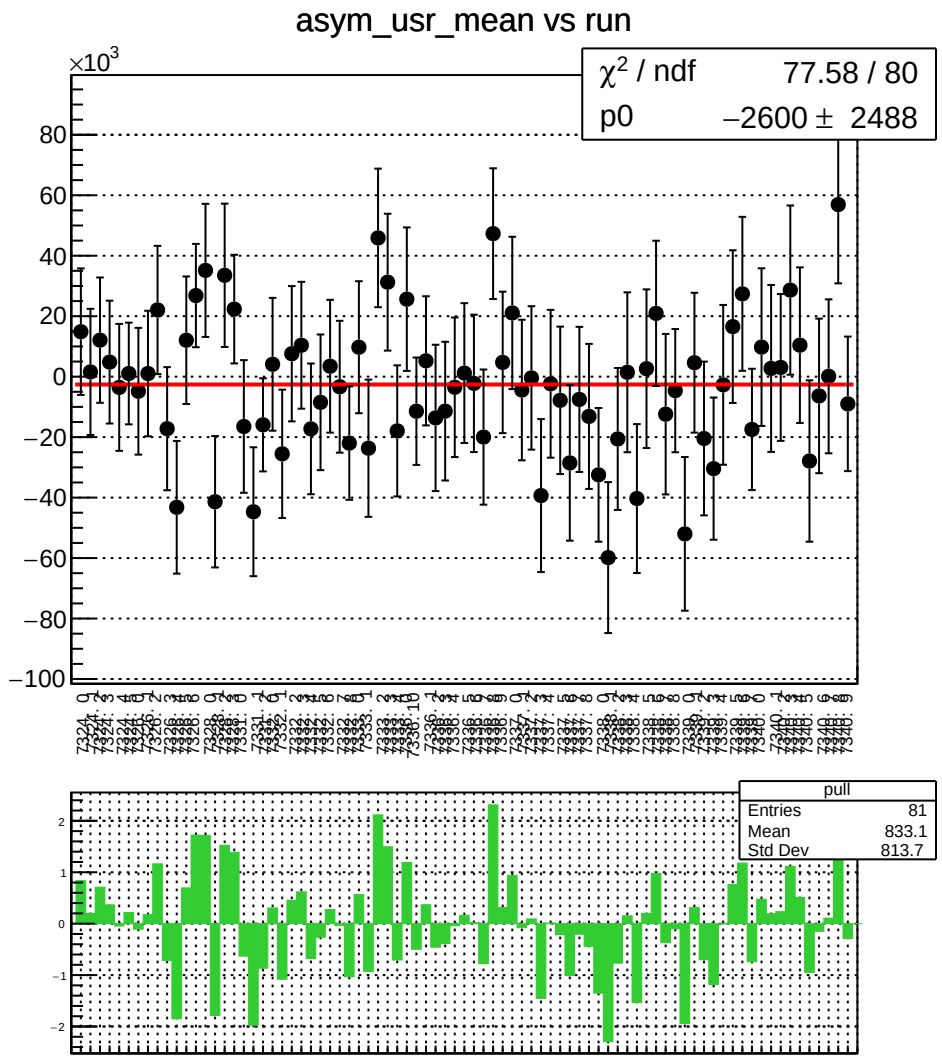

pull1D
Entries 81
Mean −0.004407
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

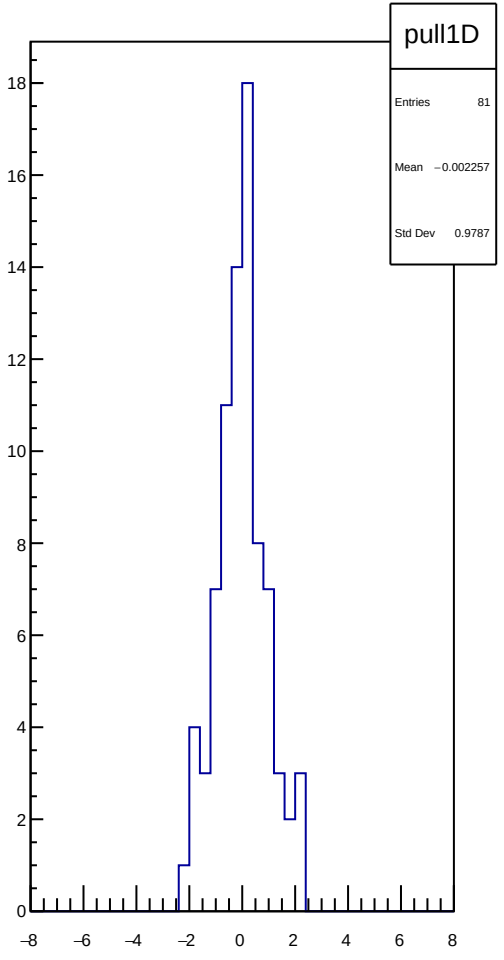

reg_asym_usr_rms vs run
χ² / ndf 97.18 / 80
p0 1101 ± 0.8815
1130
1120
1110
1100
1090
1080
1070

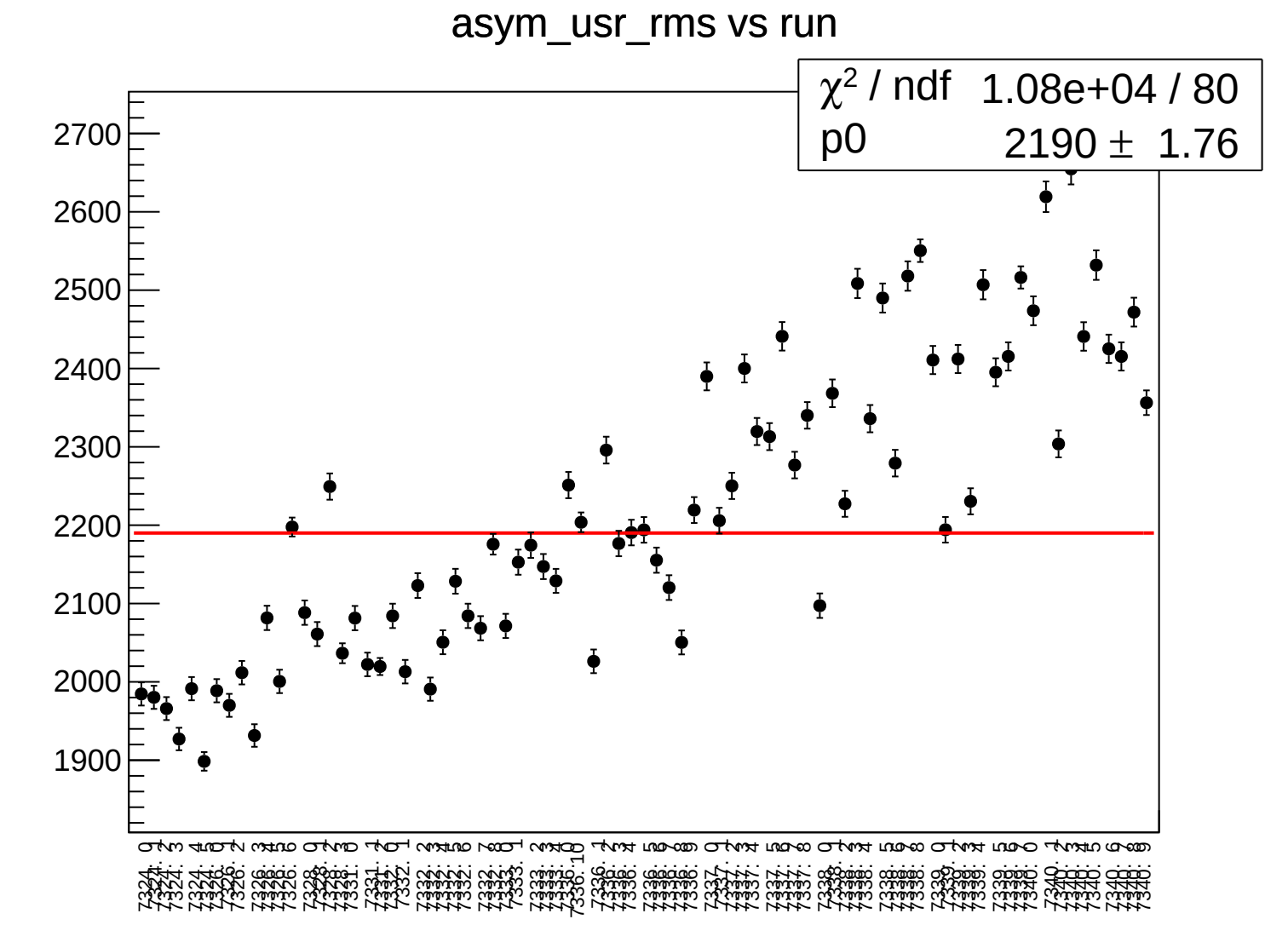

asym_usr_correction_mean vs run
χ² / ndf 84.65 / 80
p0 −315.4 ± 2139
×10³
pull
Entries 81
Mean 244
Std Dev 216.5

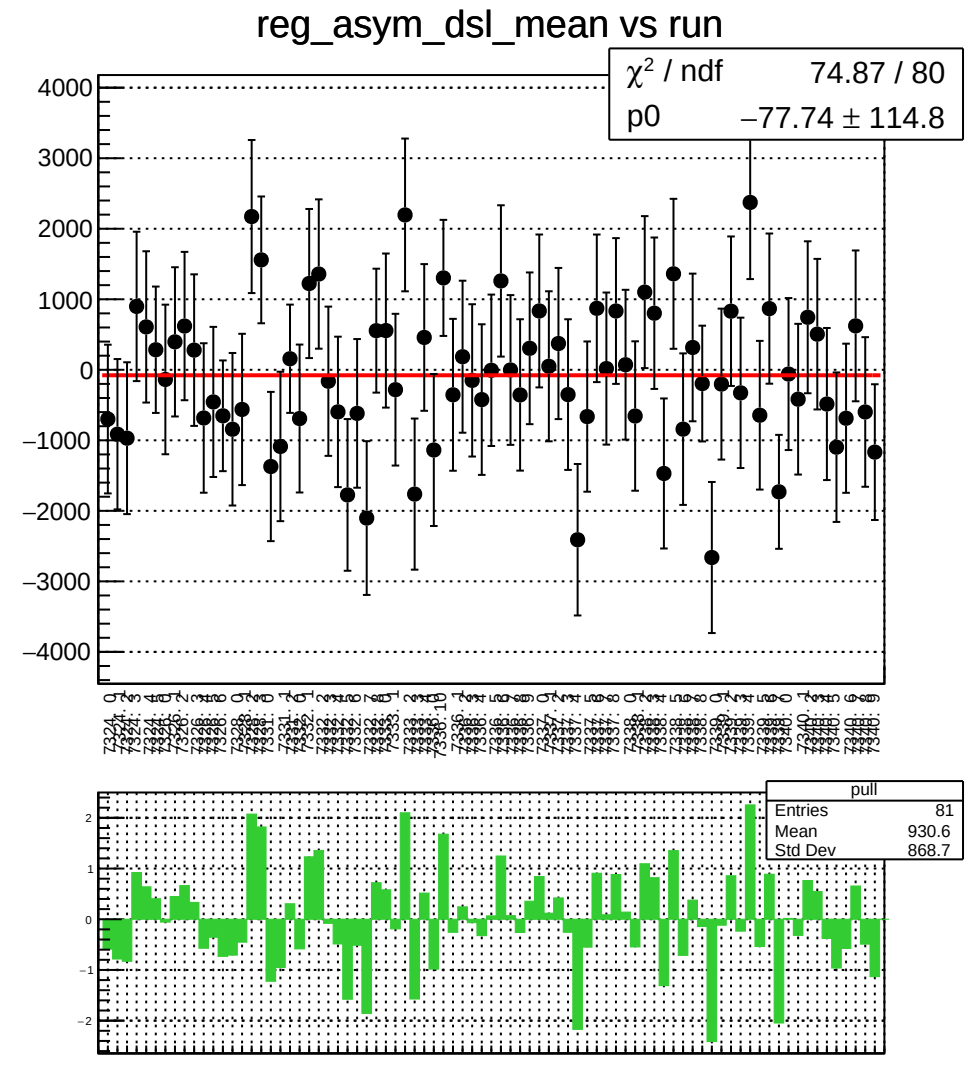

pull1D
Entries 81
Mean 0.01301
Std Dev 1.022

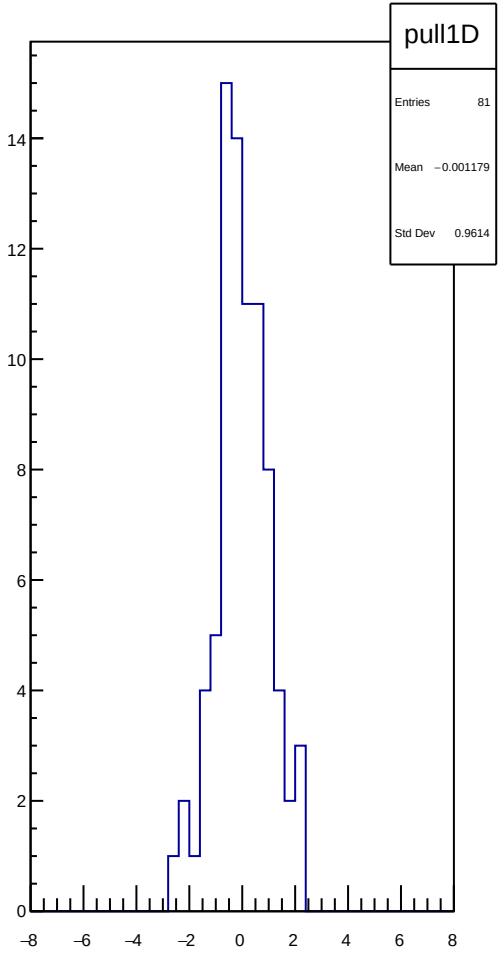

asym_usr_correction_rms vs run
χ² / ndf 1.944e+04 / 80
p0 1877 ± 1.513
2400
2200
2000
1800
1600

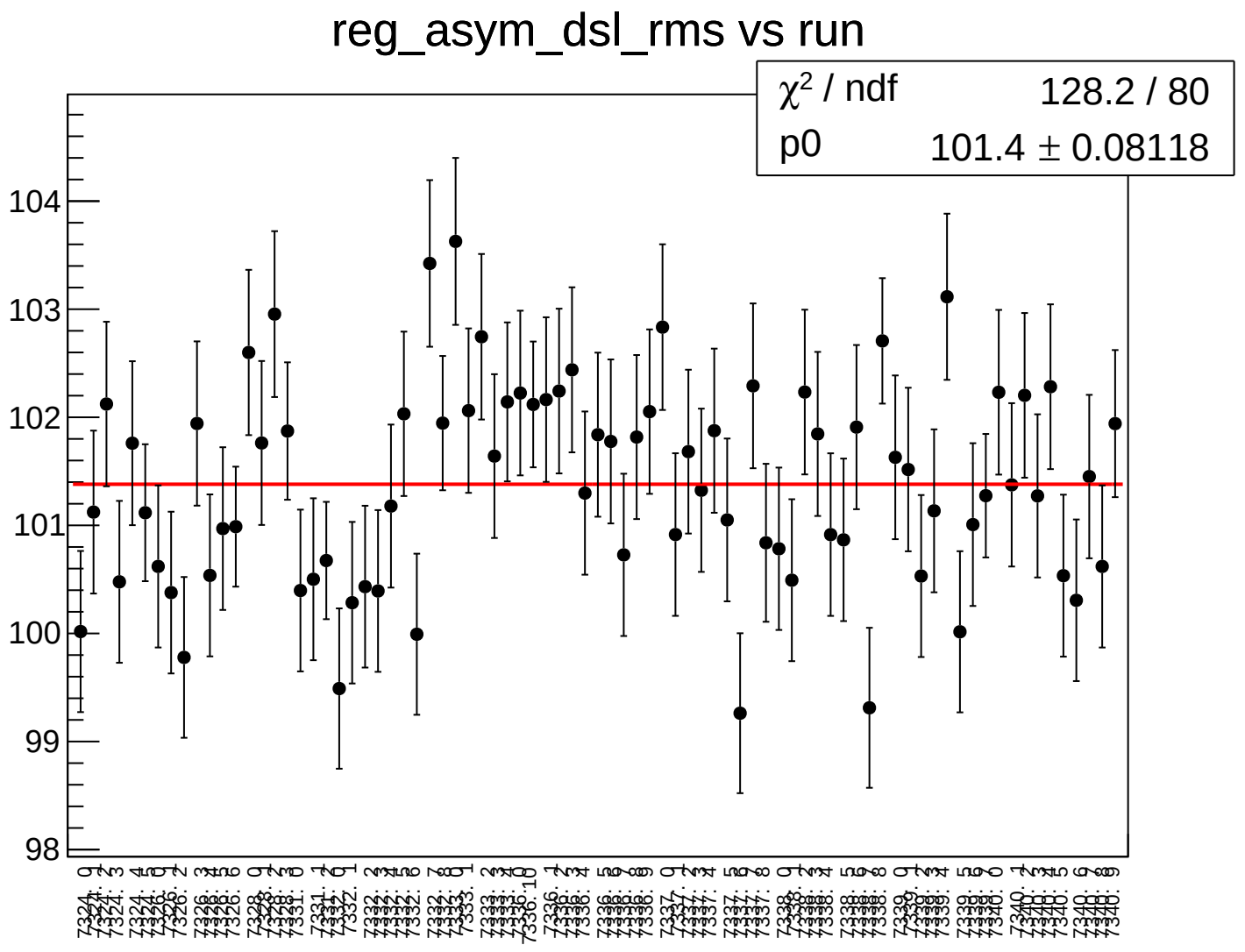

asym_usr_mean vs run
×10^3
χ² / ndf 77.58 / 80
p0 −2600 ± 2488
pull
Entries 81
Mean 833.1
Std Dev 813.7

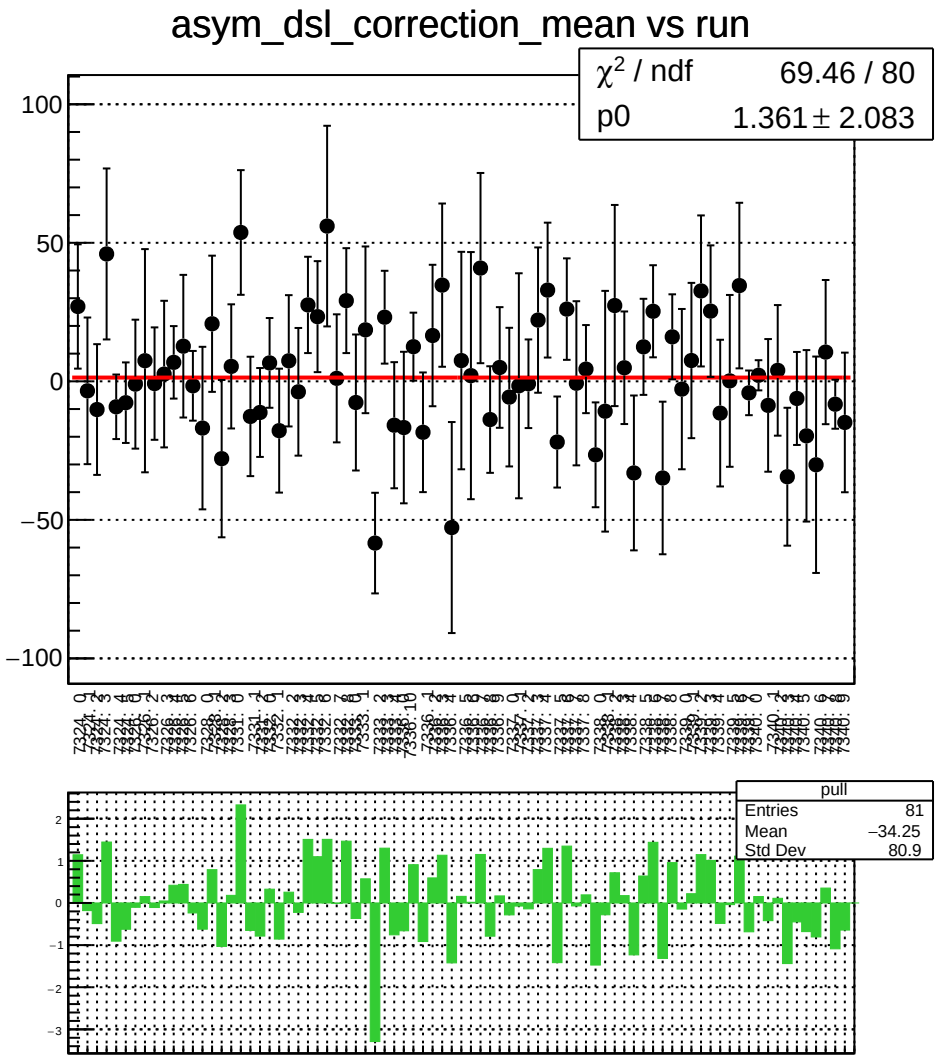

pull1D
Entries 81
Mean −0.002257
Std Dev 0.9787

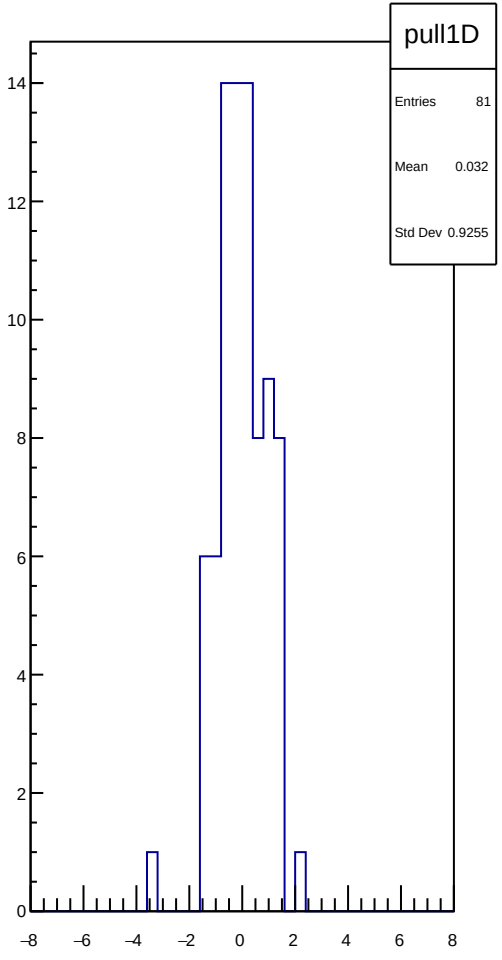

asym_usr_rms vs run
χ² / ndf 1.08e+04 / 80
p0 2190 ± 1.76
2700
2600
2500
2400
2300
2200
2100
2000
1900

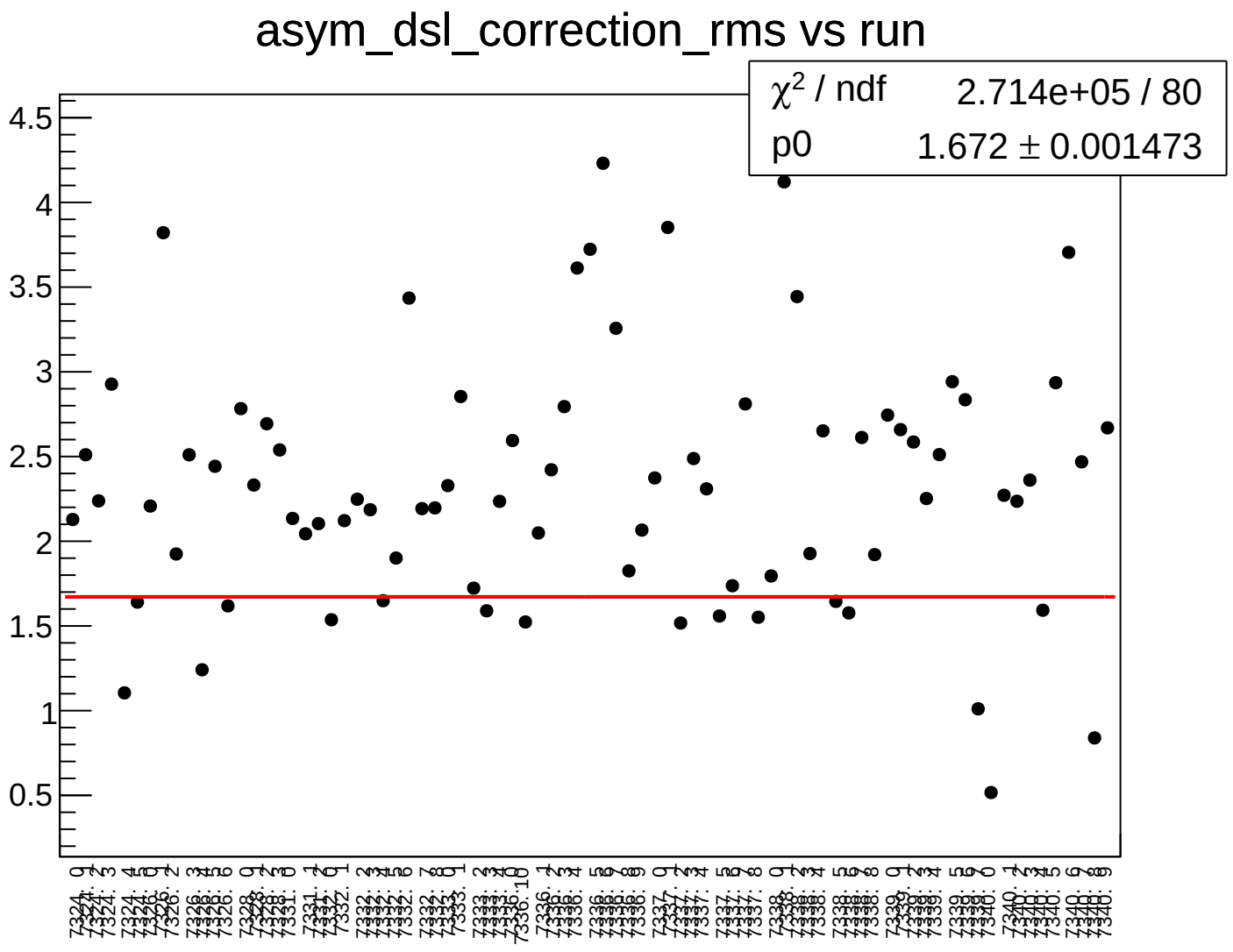

reg_asym_dsl_mean vs run
χ² / ndf 74.87 / 80
p0 −77.74 ± 114.8
pull
Entries 81
Mean 930.6
Std Dev 868.7

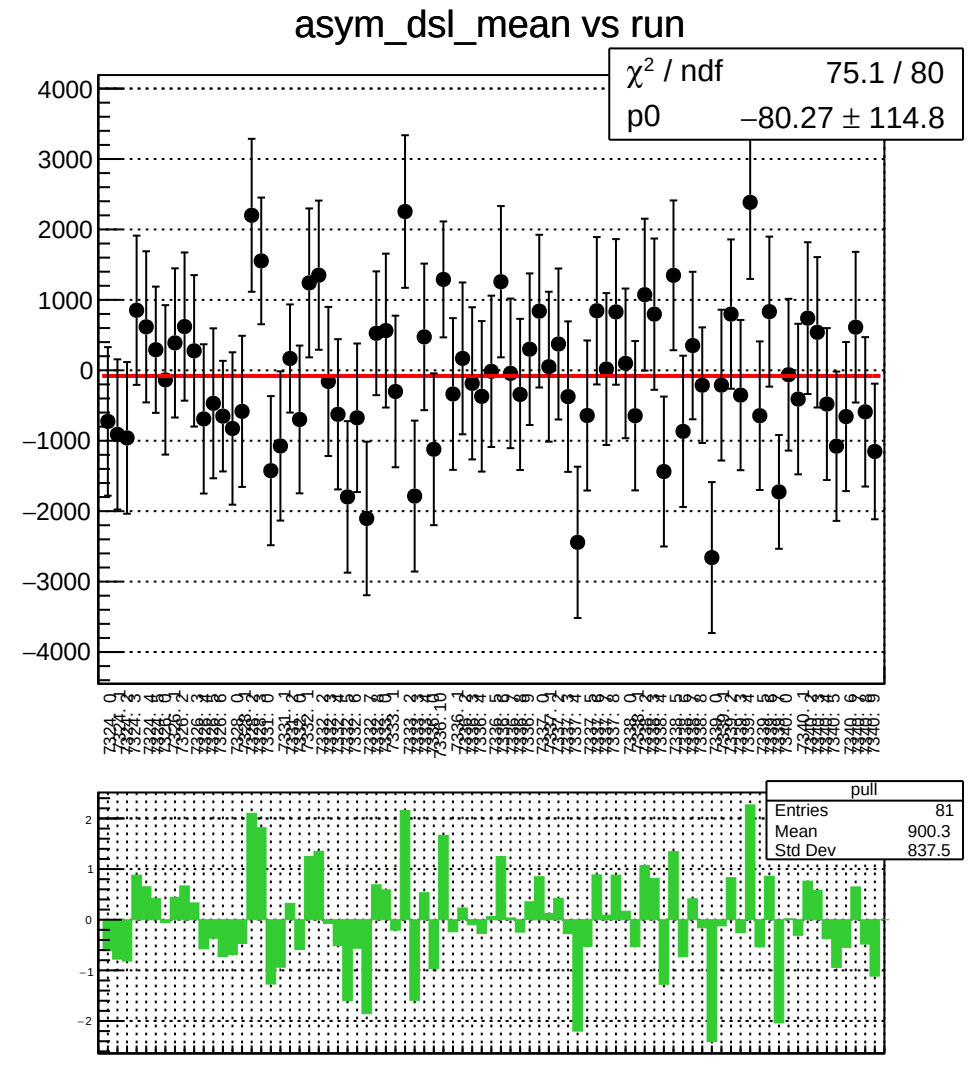

pull1D
Entries 81
Mean −0.001179
Std Dev 0.9614

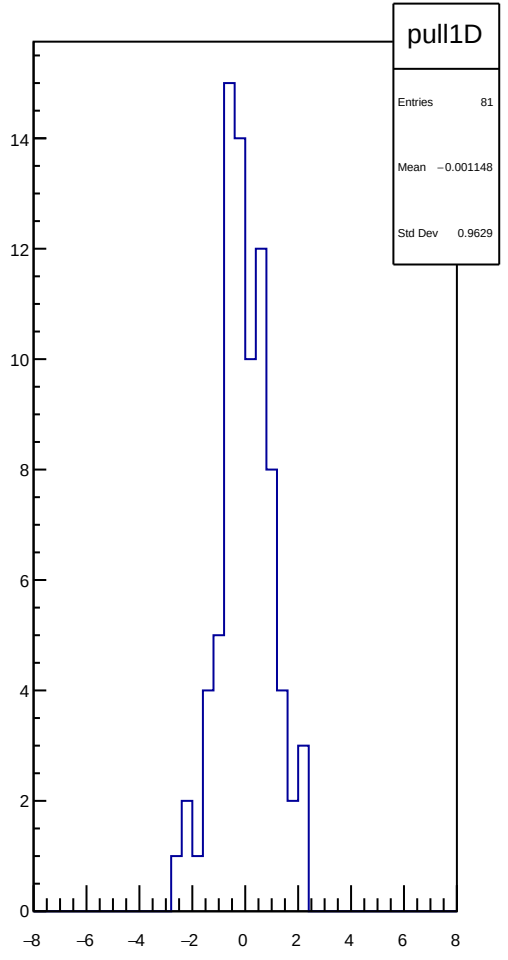

reg_asym_dsl_rms vs run
χ² / ndf 128.2 / 80
p0 101.4 ± 0.08118
104
103
102
101
100
99
98

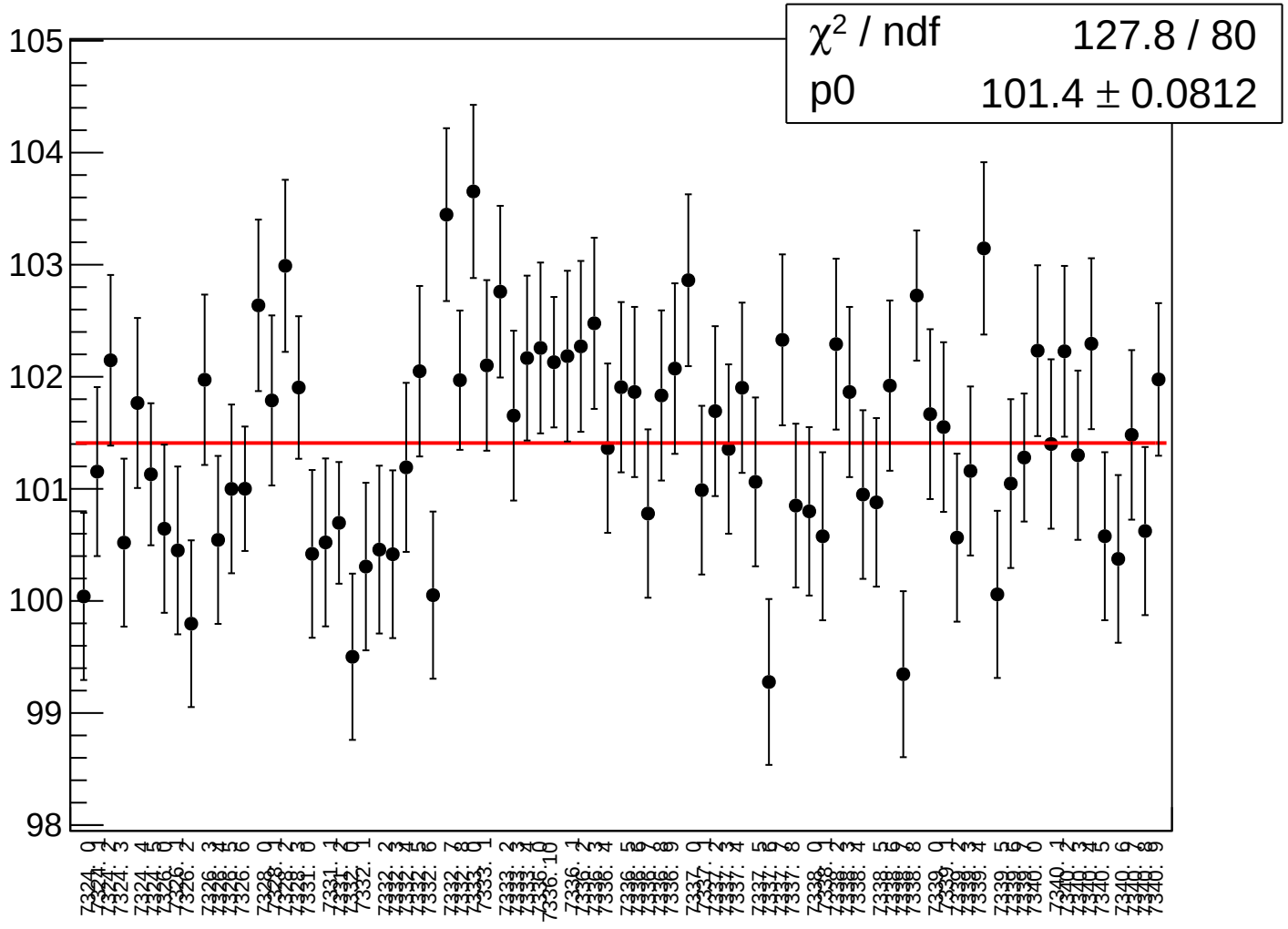

asym_dsl_correction_mean vs run
χ² / ndf 69.46 / 80
p0 1.361 ± 2.083
pull
Entries 81
Mean −34.25
Std Dev 80.9

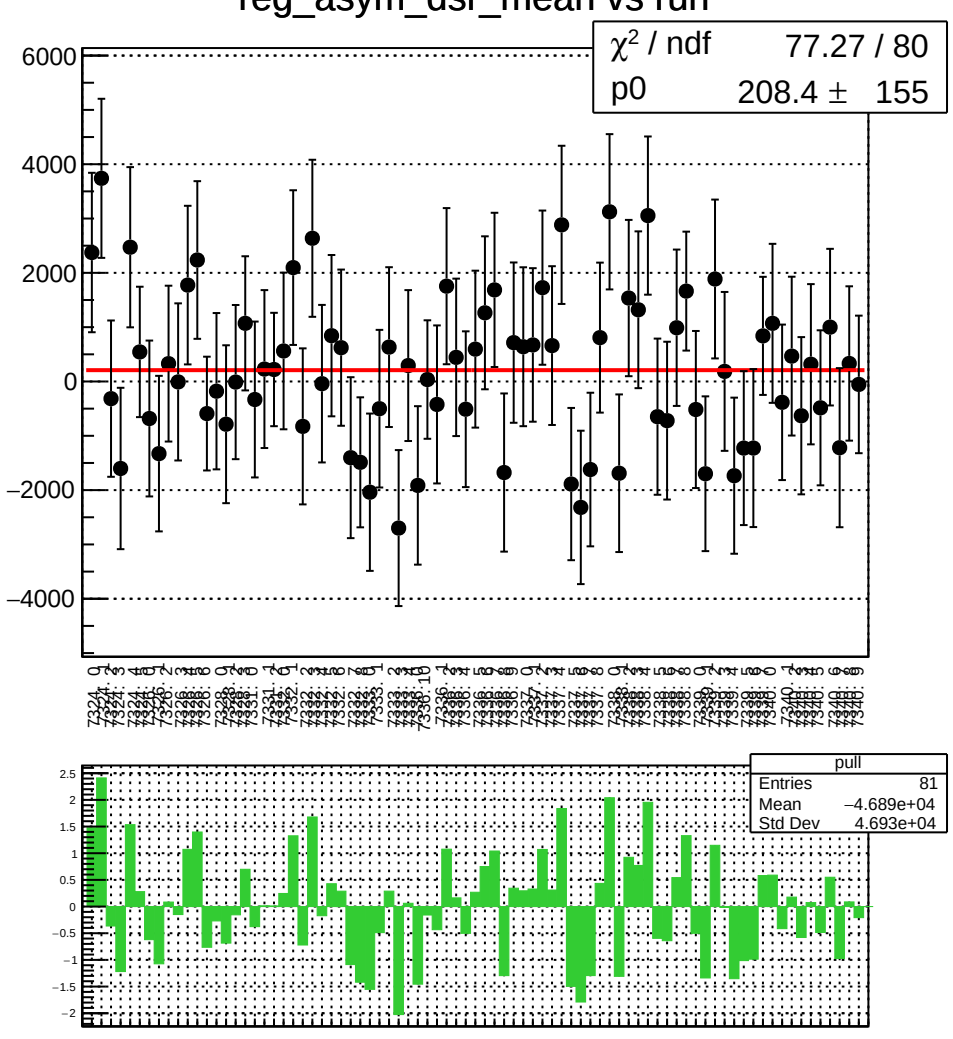

pull1D
Entries 81
Mean 0.032
Std Dev 0.9255

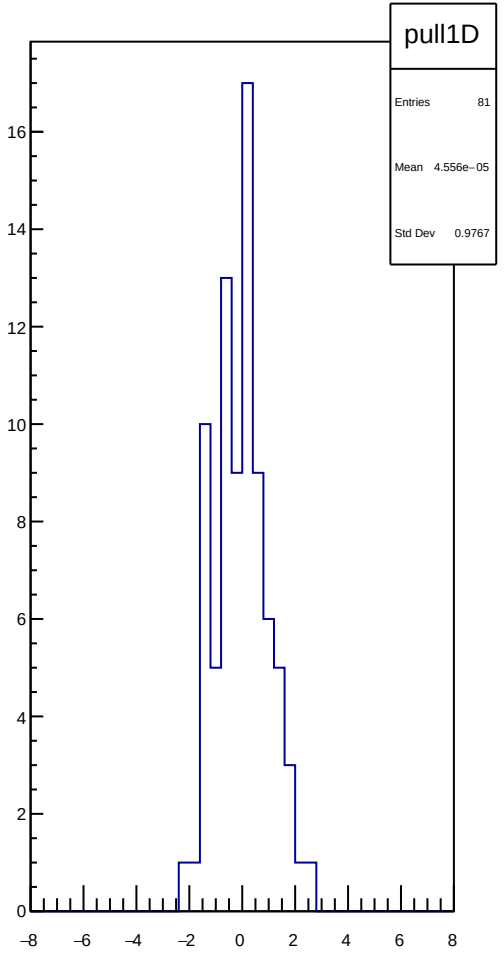

asym_dsl_correction_rms vs run
χ^2 / ndf 2.714e+05 / 80
p0 1.672 ± 0.001473
4.5
4
3.5
3
2.5
2
1.5
1
0.5

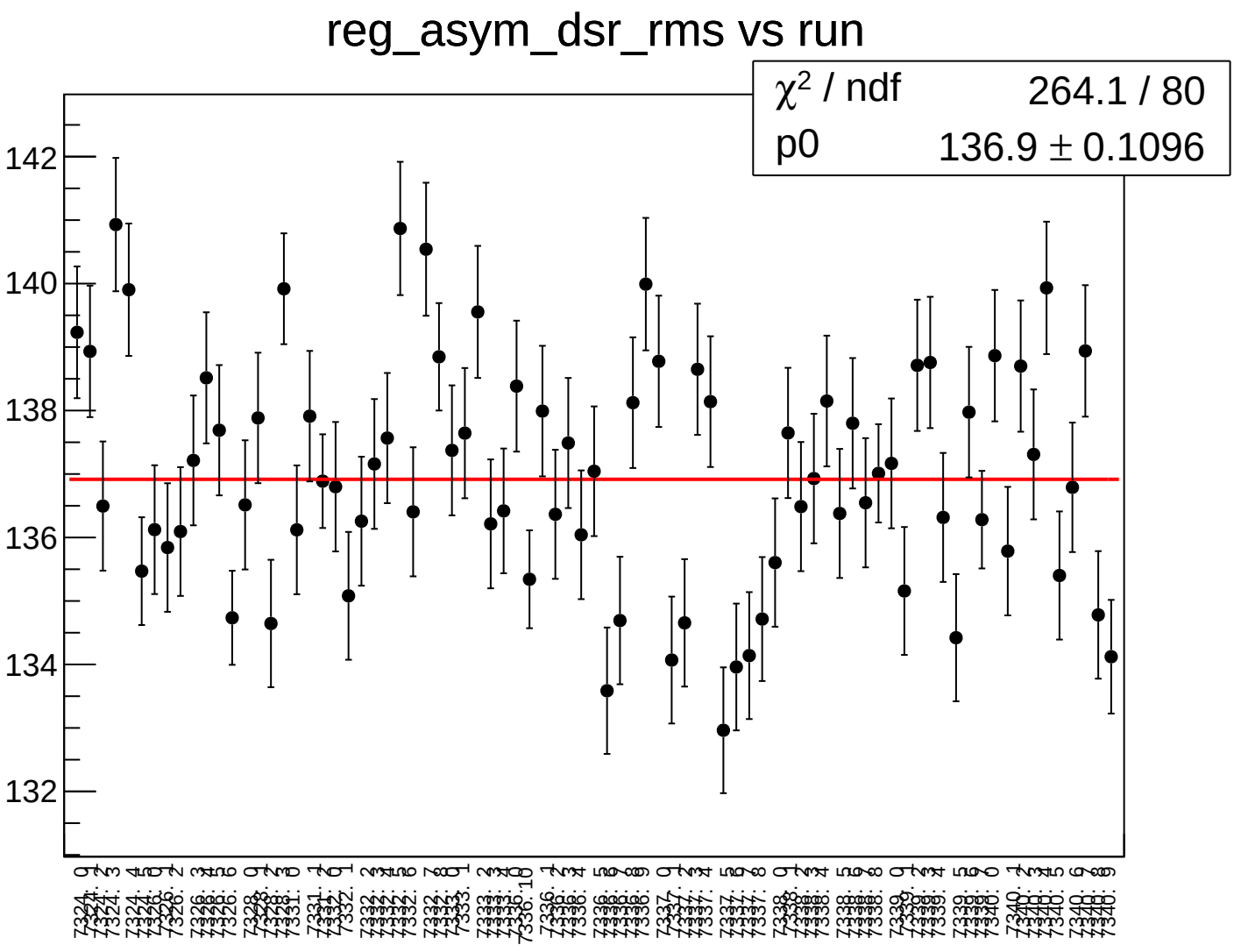

asym_dsl_mean vs run
χ² / ndf 75.1 / 80
p0 −80.27 ± 114.8
pull
Entries 81
Mean 900.3
Std Dev 837.5

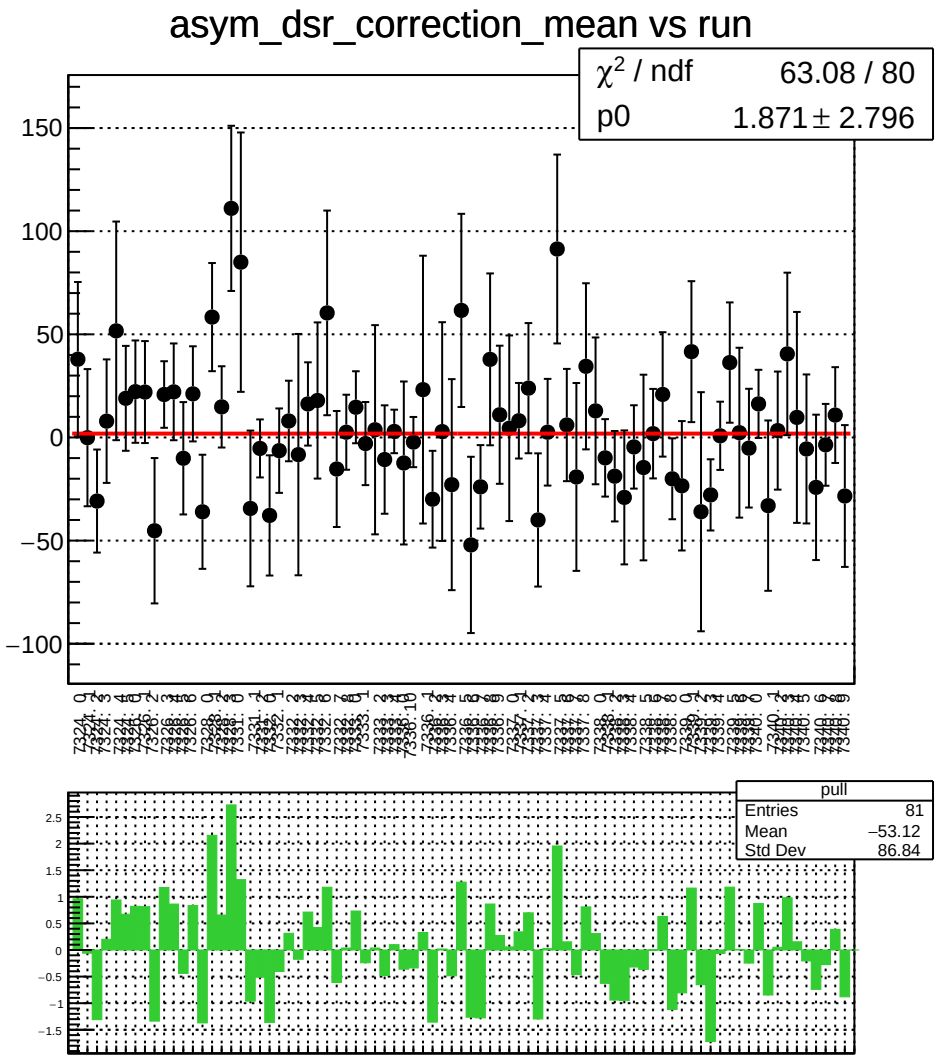

pull1D
Entries 81
Mean −0.001148
Std Dev 0.9629

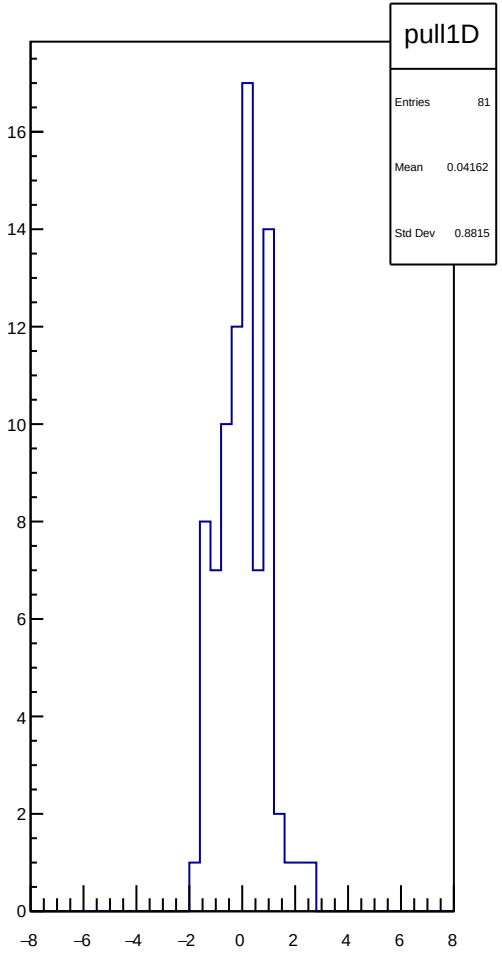

asym_dsl_rms vs run
χ² / ndf 127.8 / 80
p0 101.4 ± 0.0812
105
104
103
102
101
100
99
98

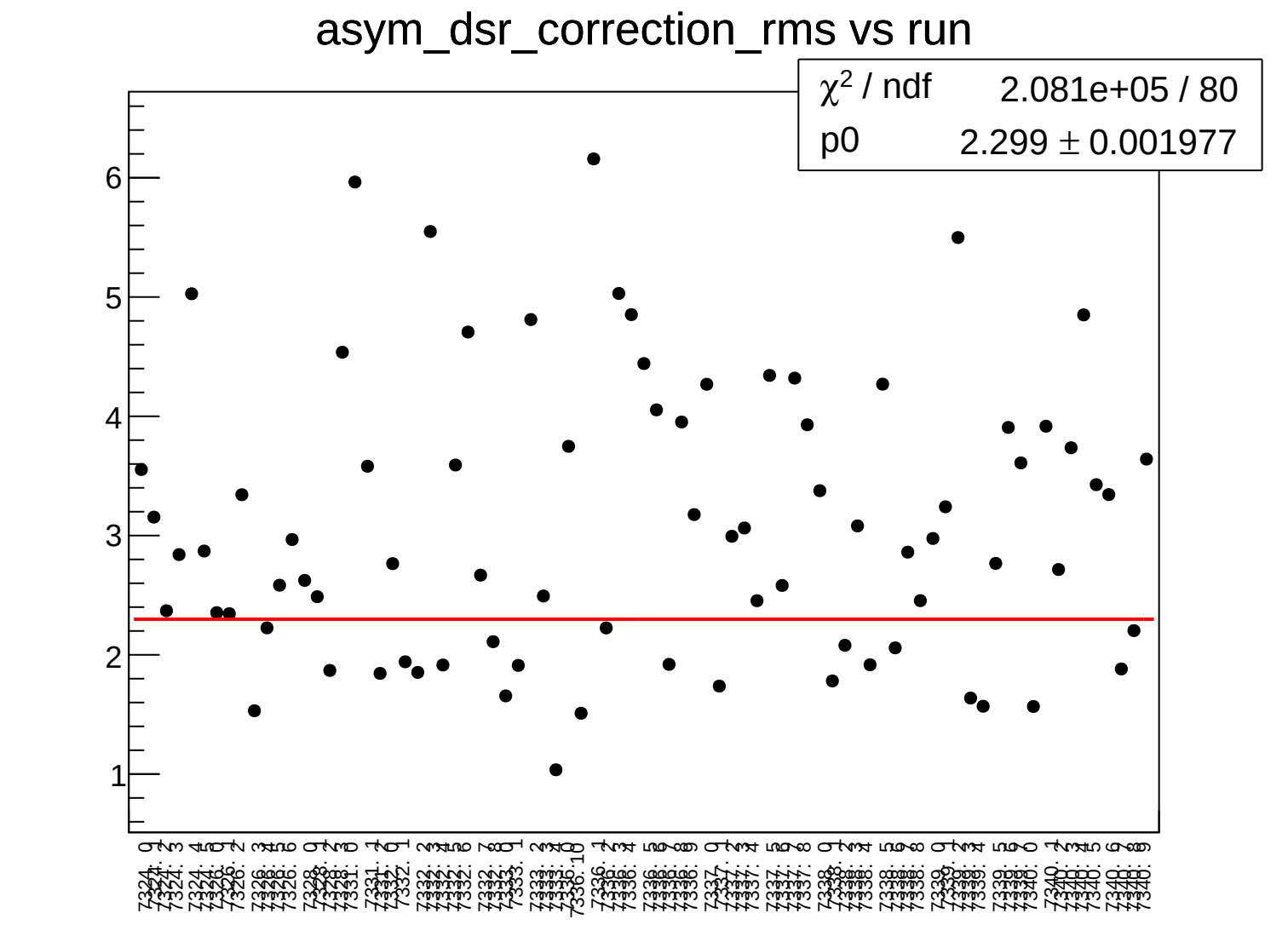

reg_asym_dsr_mean vs run
χ² / ndf 77.27 / 80
p0 208.4 ± 155
pull
Entries 81
Mean −4.689e+04
Std Dev 4.693e+04

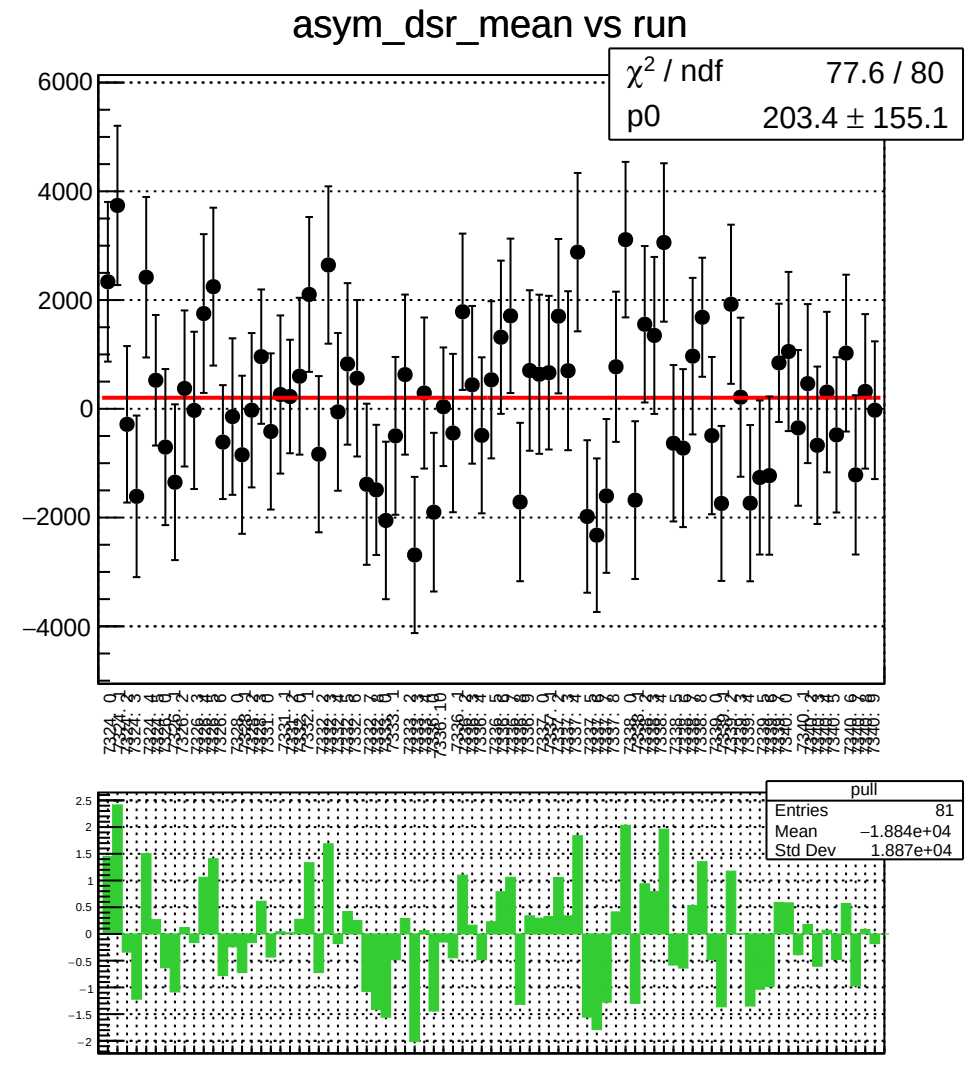

pull1D
Entries 81
Mean 4.556e−05
Std Dev 0.9767

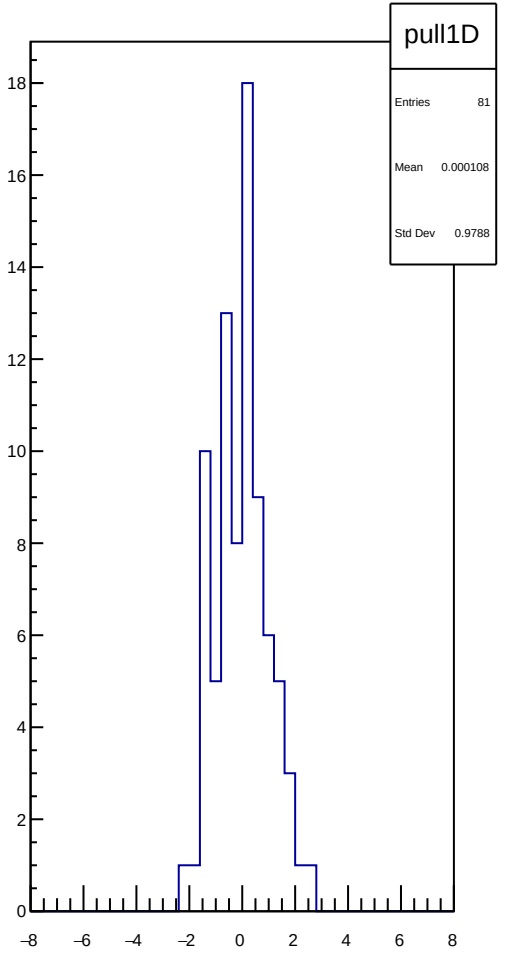

reg_asym_dsr_rms vs run
χ² / ndf 264.1 / 80
p0 136.9 ± 0.1096
142
140
138
136
134
132

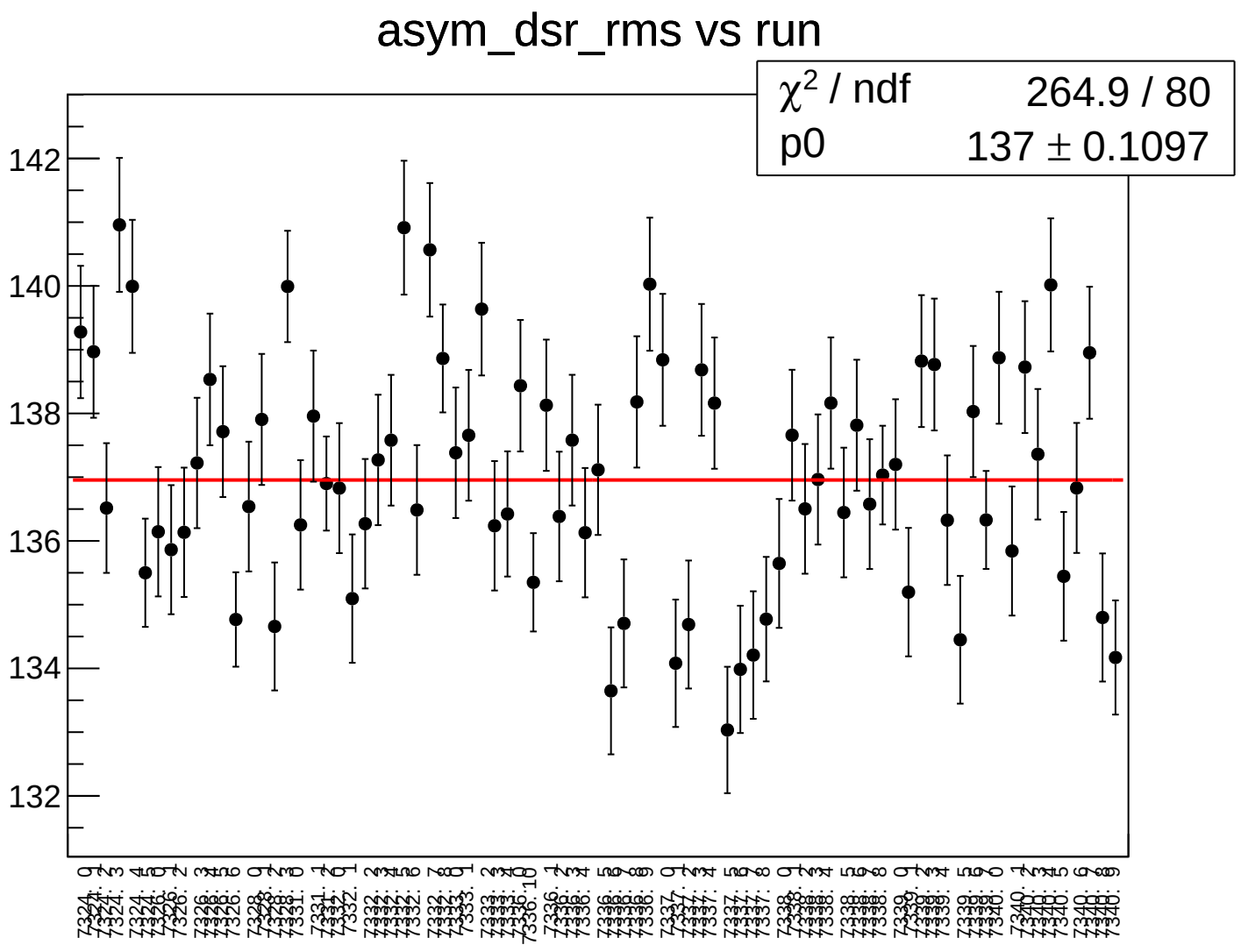

asym_dsr_correction_mean vs run
χ² / ndf 63.08 / 80
p0 1.871 ± 2.796
pull
Entries 81
Mean −53.12
Std Dev 86.84

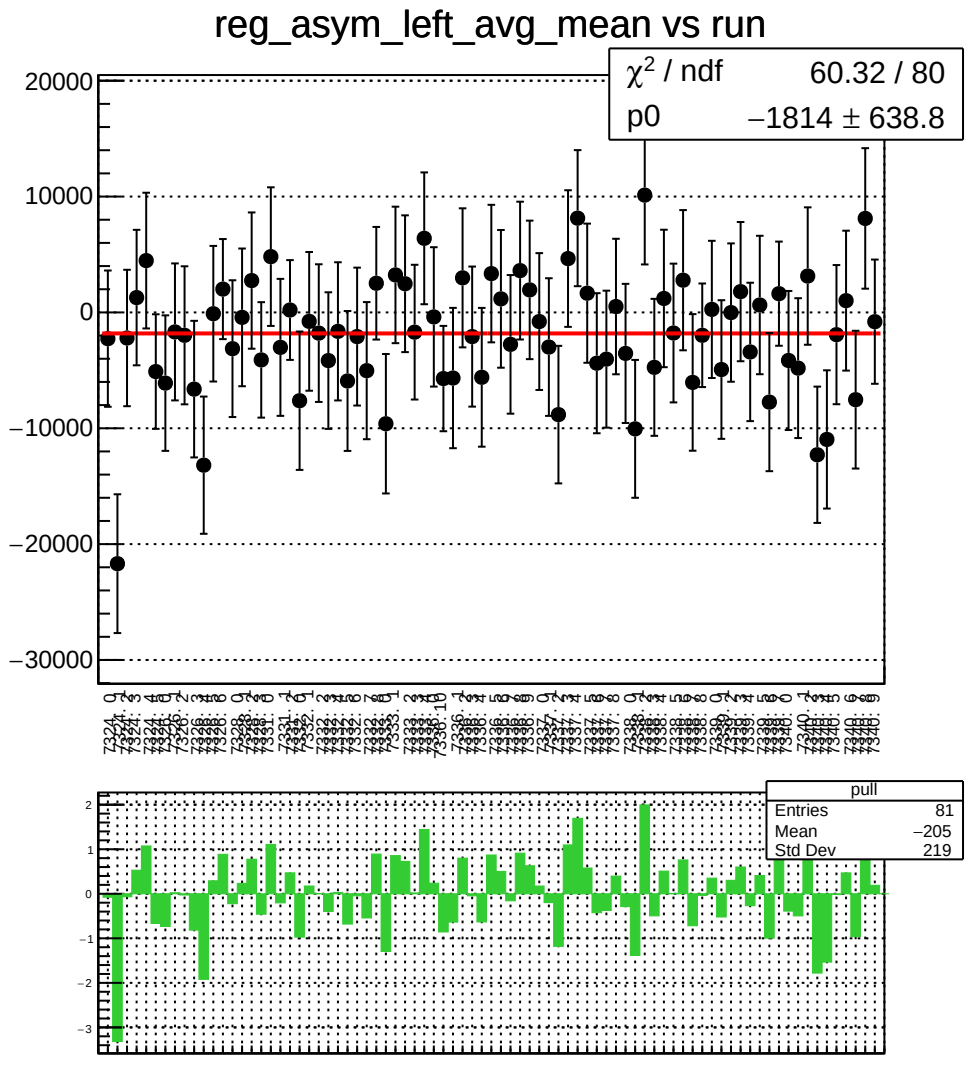

pull1D
Entries 81
Mean 0.04162
Std Dev 0.8815

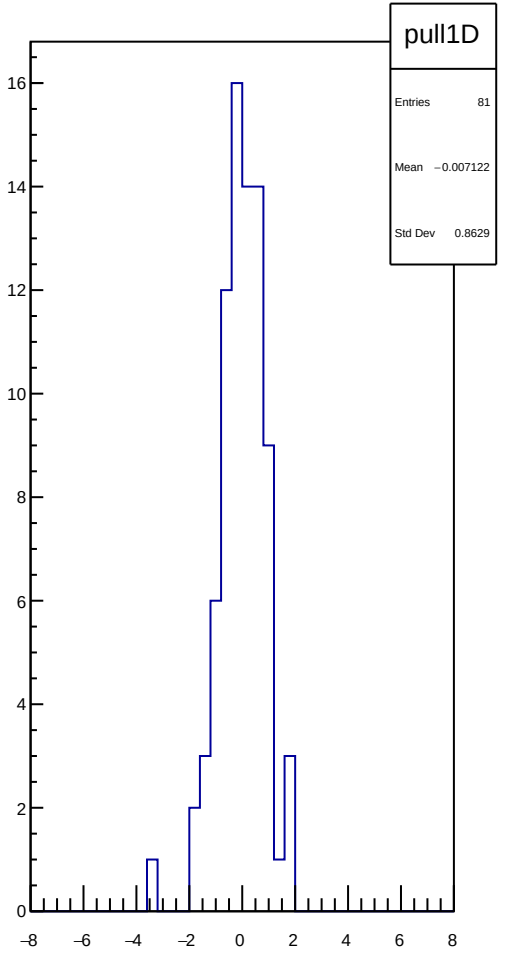

asym_dsr_correction_rms vs run
χ^2 / ndf 2.081e+05 / 80
p0 2.299 ± 0.001977
6
5
4
3
2
1

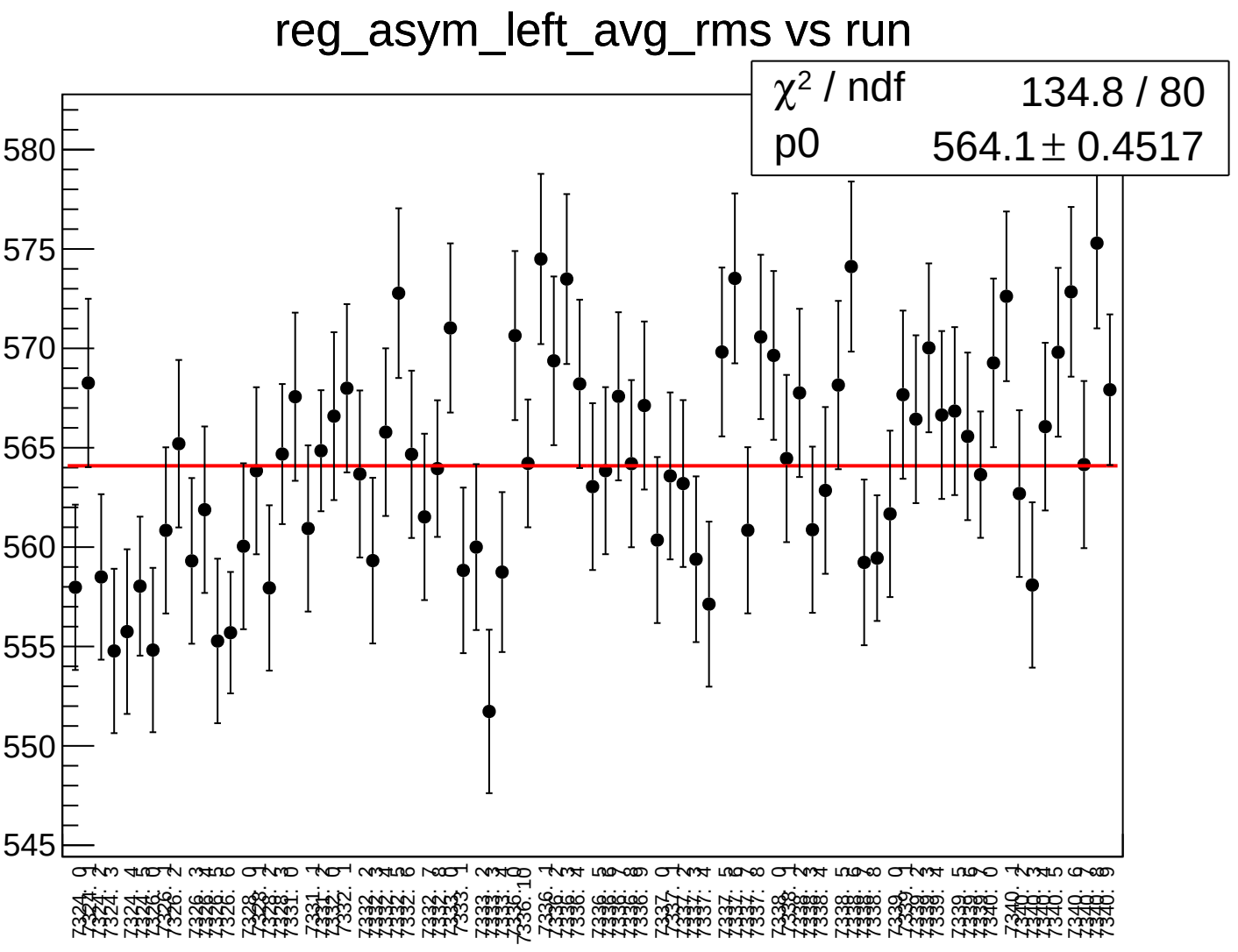

asym_dsr_mean vs run
χ² / ndf 77.6 / 80
p0 203.4 ± 155.1
6000
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −1.884e+04
Std Dev 1.887e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

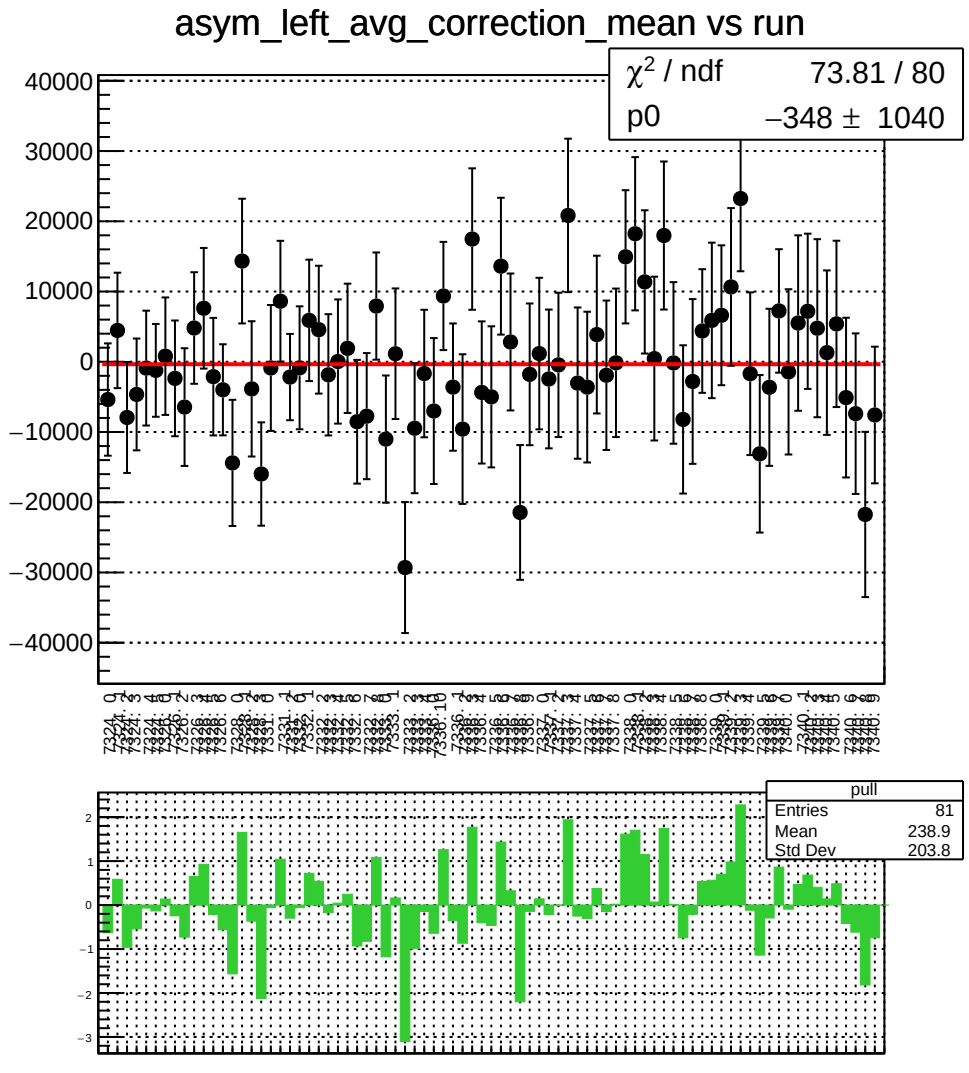

pull1D
Entries 81
Mean 0.000108
Std Dev 0.9788
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

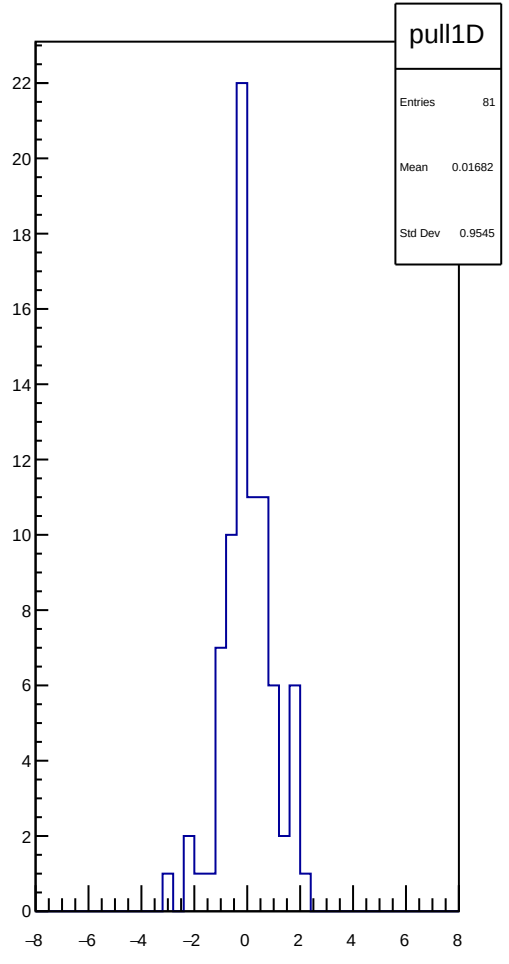

asym_dsr_rms vs run
χ^2 / ndf 264.9 / 80
p0 137 ± 0.1097
142
140
138
136
134
132

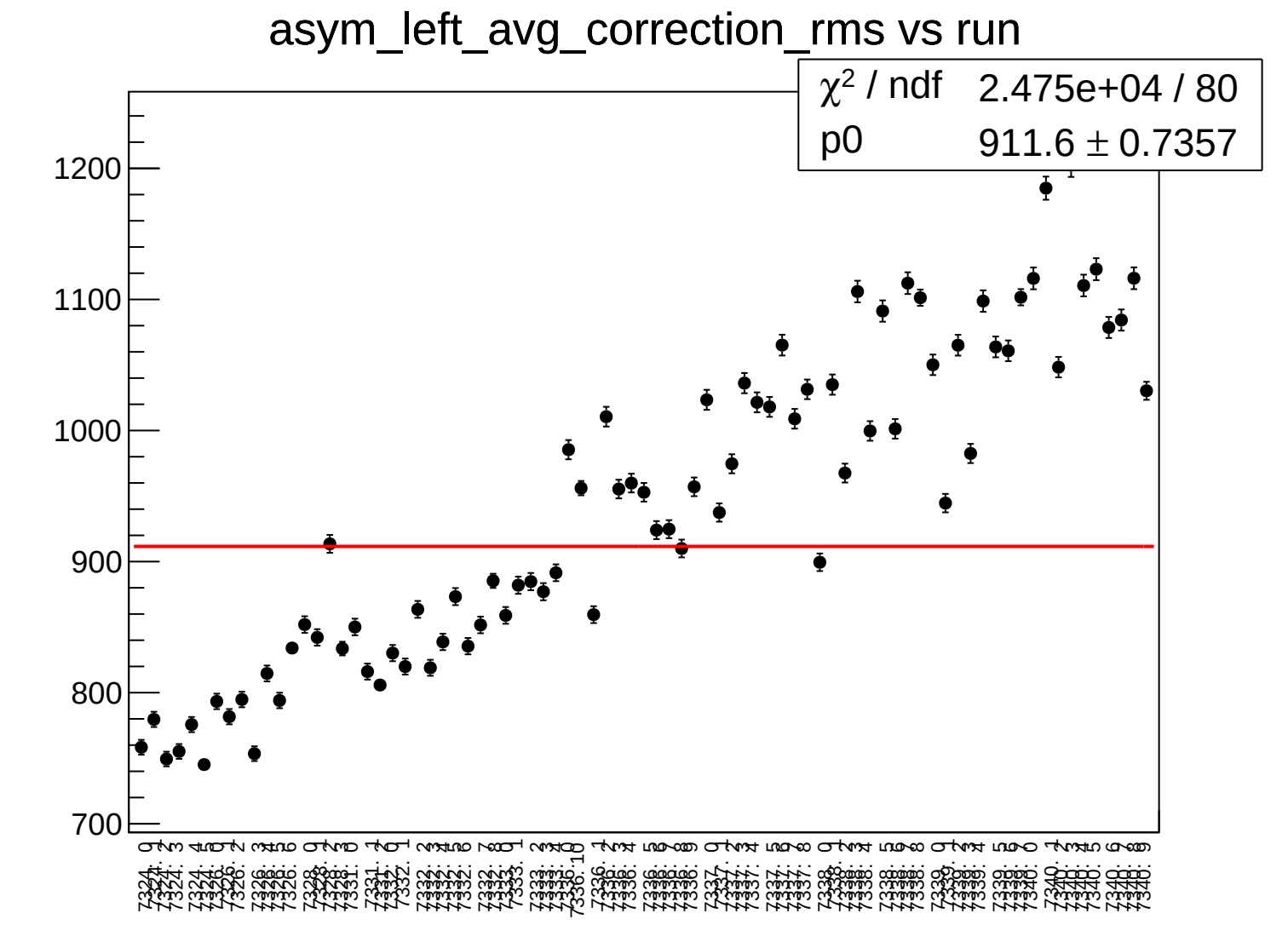

reg_asym_left_avg_mean vs run
χ² / ndf 60.32 / 80
p0 −1814 ± 638.8
pull
Entries 81
Mean −205
Std Dev 219

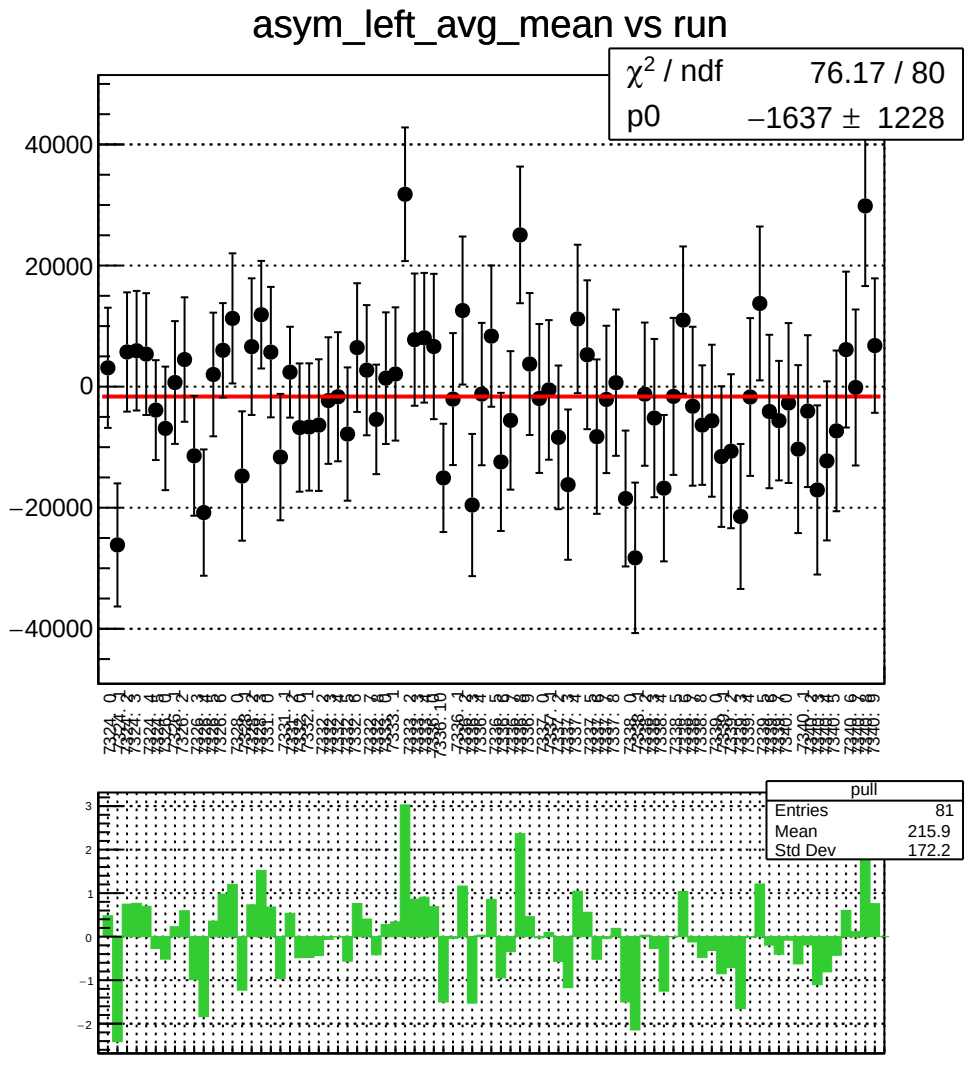

pull1D
Entries 81
Mean −0.007122
Std Dev 0.8629

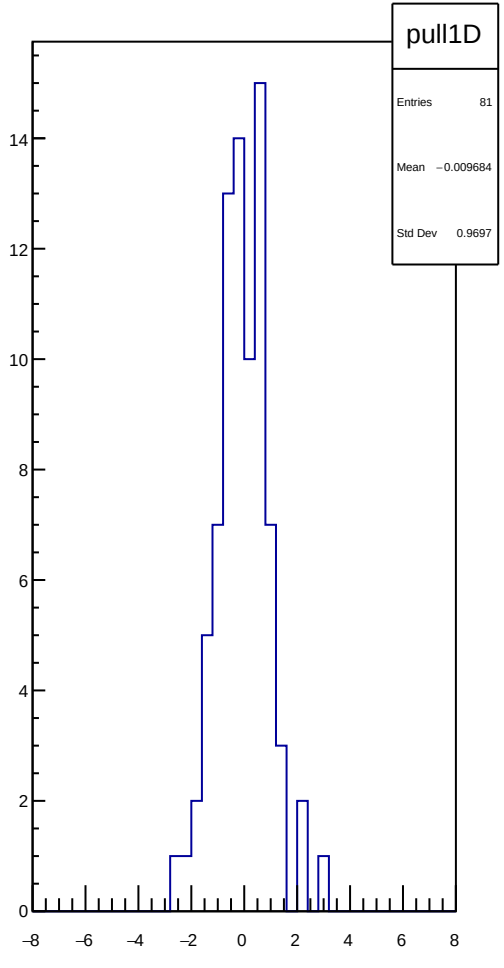

reg_asym_left_avg_rms vs run
χ² / ndf 134.8 / 80
p0 564.1 ± 0.4517
580
575
570
565
560
555
550
545

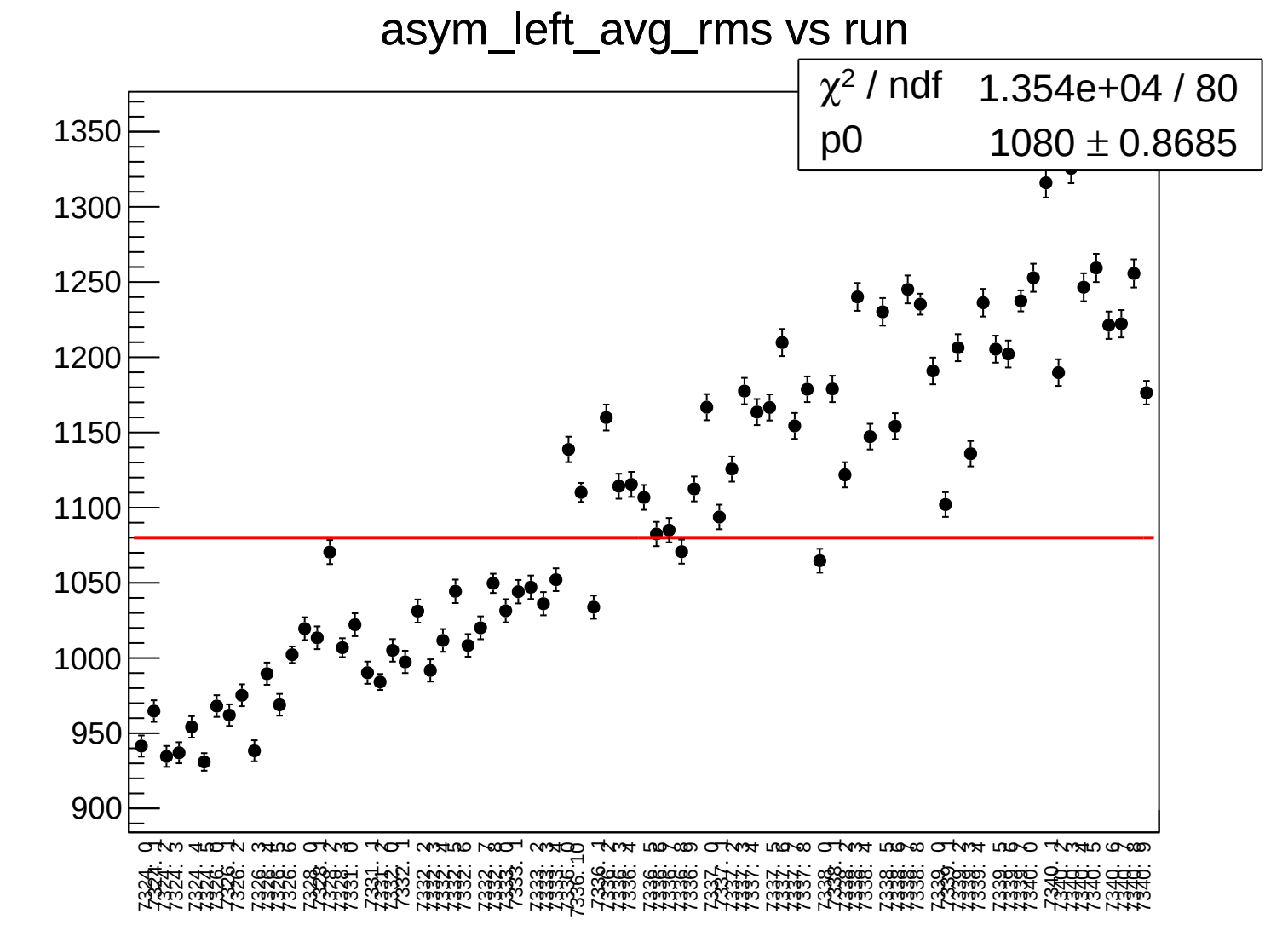

asym_left_avg_correction_mean vs run
χ² / ndf 73.81 / 80
p0 −348 ± 1040
pull
Entries 81
Mean 238.9
Std Dev 203.8

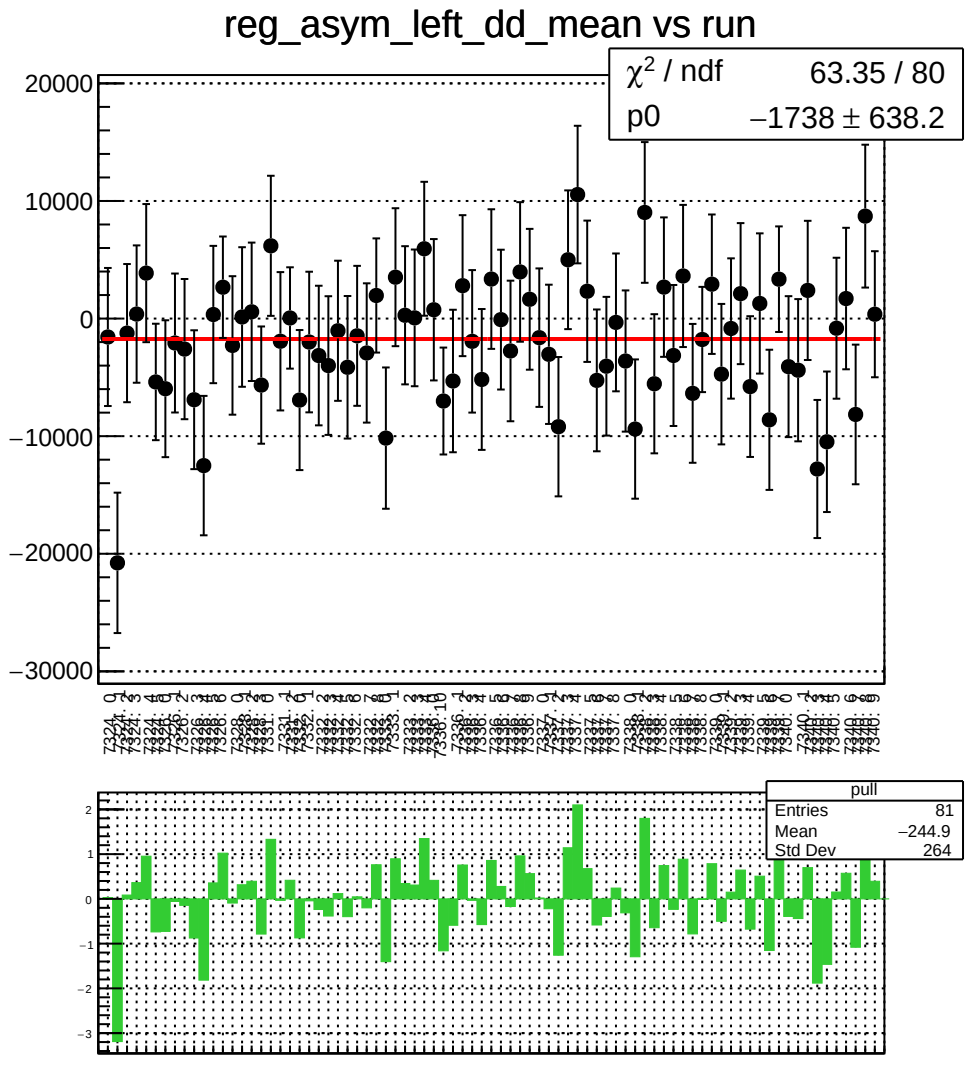

pull1D
Entries 81
Mean 0.01682
Std Dev 0.9545

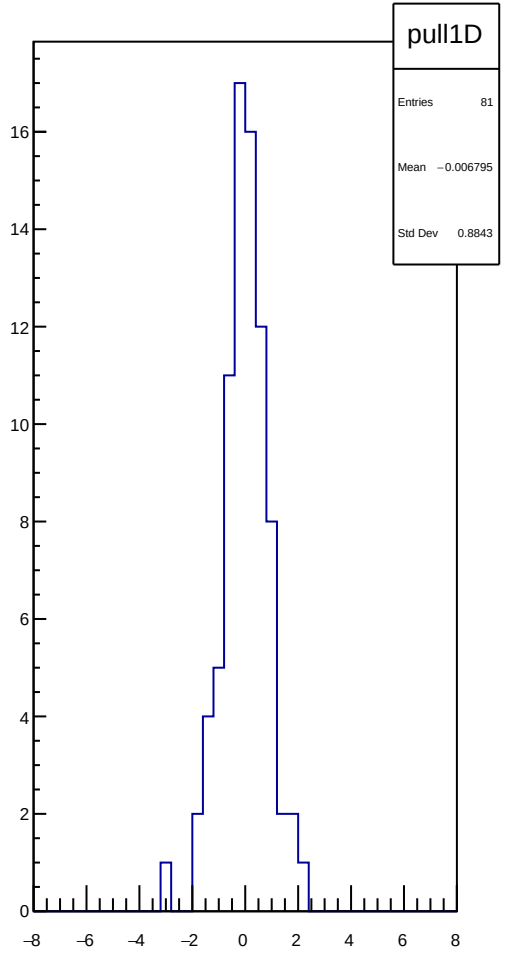

asym_left_avg_correction_rms vs run
χ² / ndf 2.475e+04 / 80
p0 911.6 ± 0.7357
1200
1100
1000
900
800
700

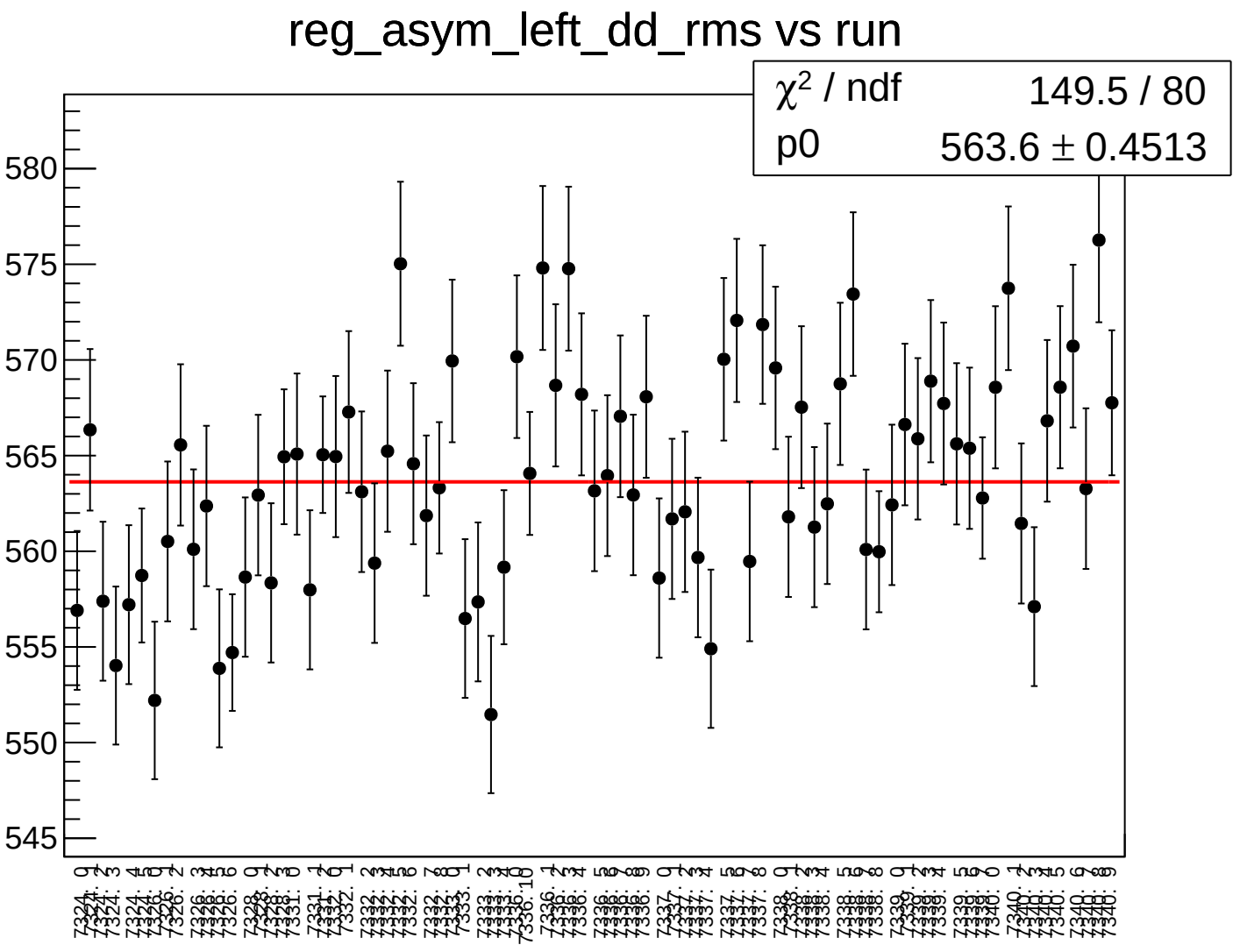

asym_left_avg_mean vs run
χ² / ndf 76.17 / 80
p0 −1637 ± 1228
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 215.9
Std Dev 172.2
3
2
1
0
−1
−2

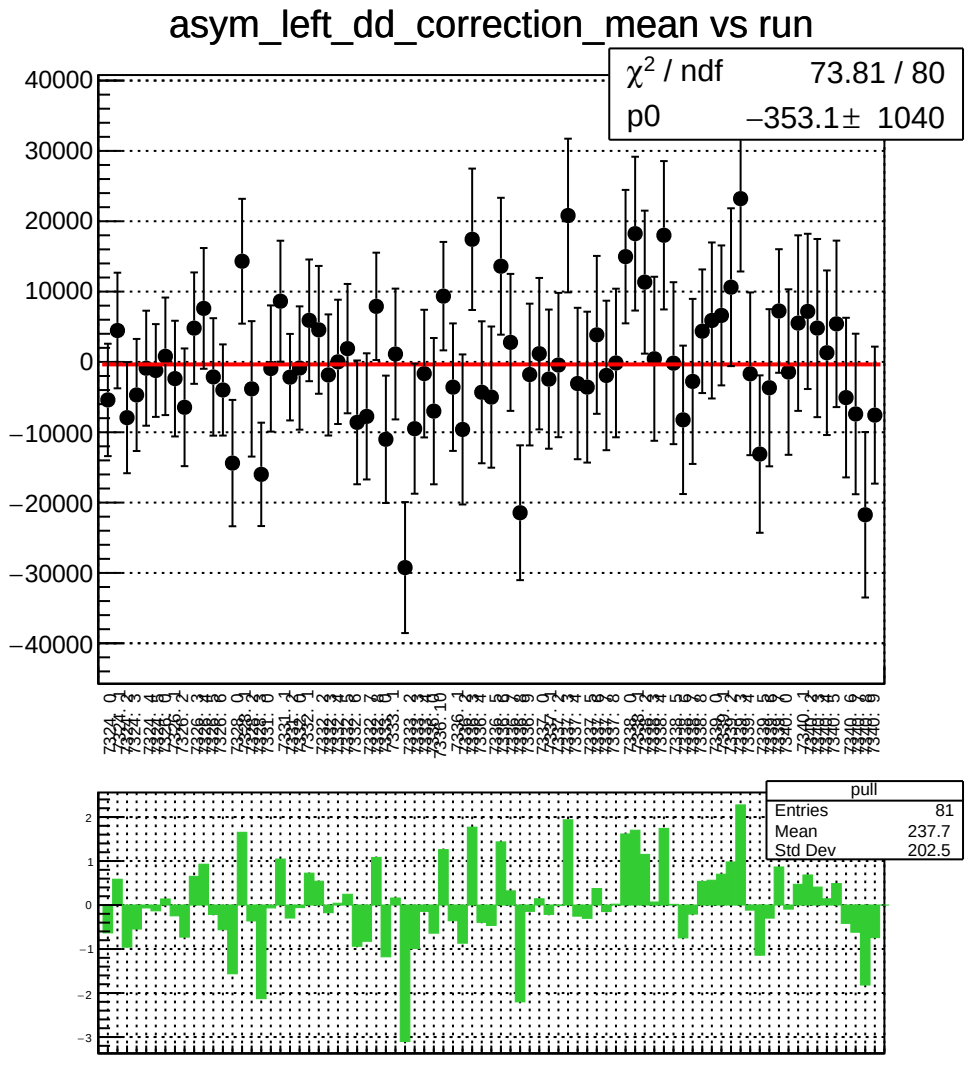

pull1D
Entries 81
Mean −0.009684
Std Dev 0.9697
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

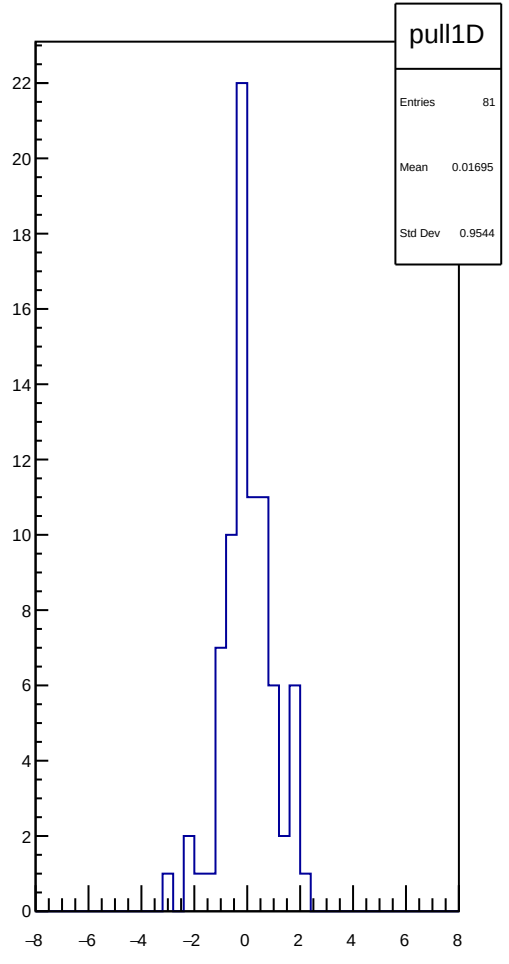

asym_left_avg_rms vs run
χ² / ndf 1.354e+04 / 80
p0 1080 ± 0.8685
1350
1300
1250
1200
1150
1100
1050
1000
950
900

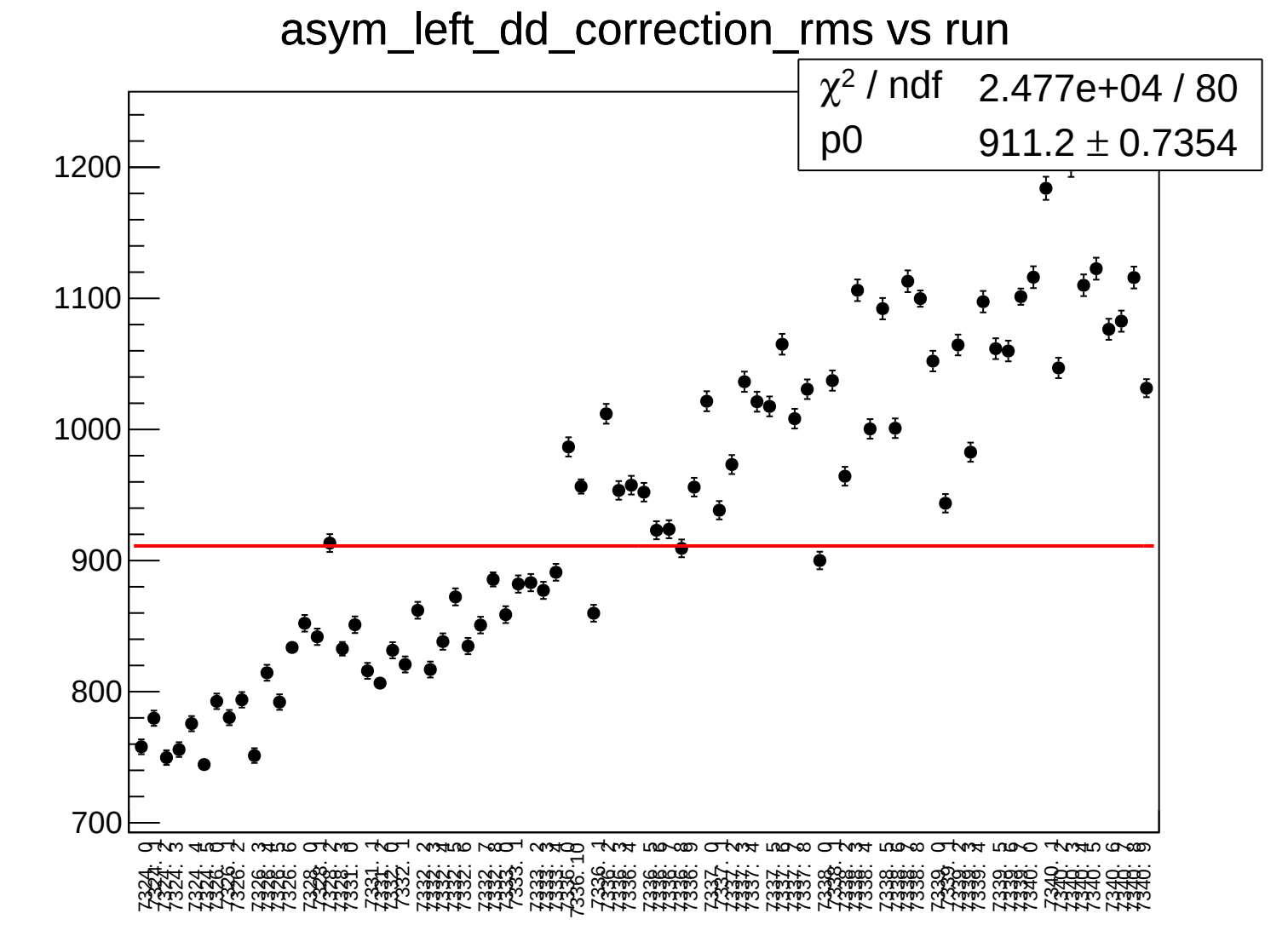

reg_asym_left_dd_mean vs run
χ² / ndf 63.35 / 80
p0 −1738 ± 638.2
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −244.9
Std Dev 264
2
1
0
−1
−2
−3

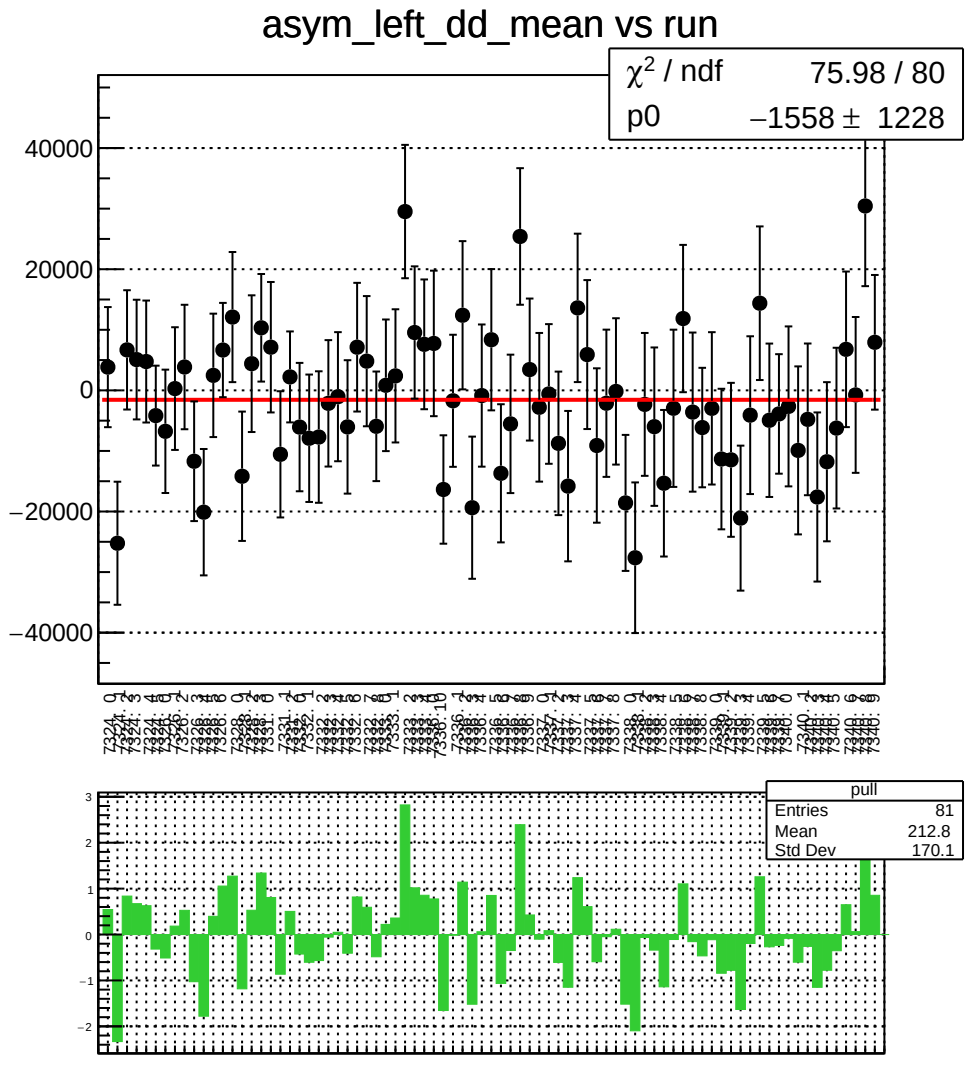

pull1D
Entries 81
Mean −0.006795
Std Dev 0.8843
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

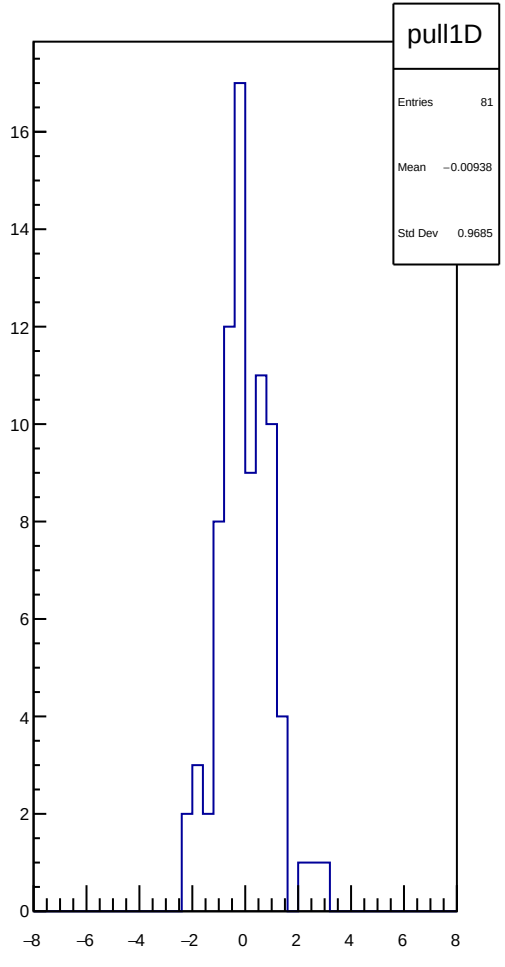

reg_asym_left_dd_rms vs run
χ² / ndf 149.5 / 80
p0 563.6 ± 0.4513
580
575
570
565
560
555
550
545

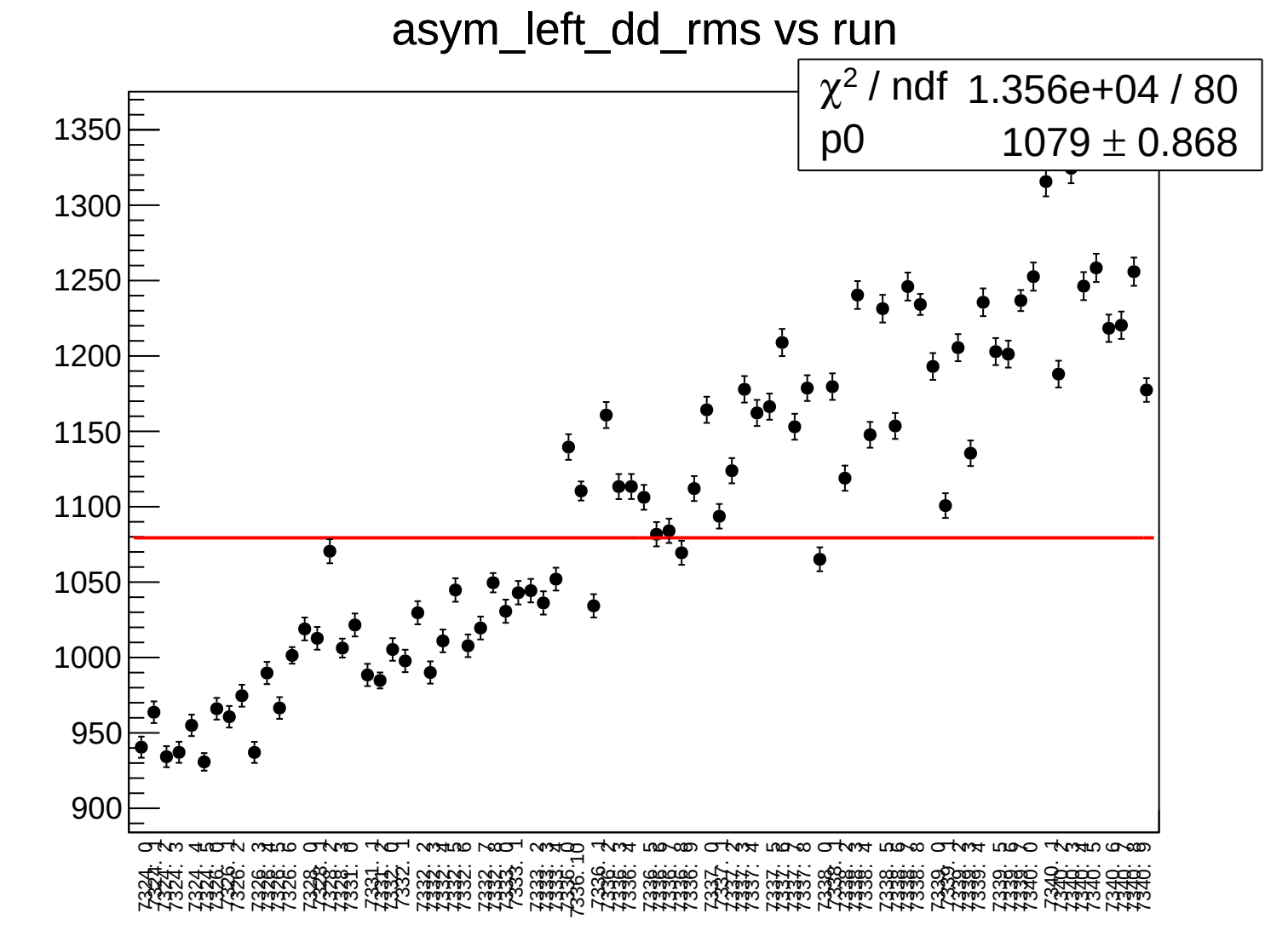

asym_left_dd_correction_mean vs run
χ² / ndf 73.81 / 80
p0 −353.1± 1040
pull
Entries 81
Mean 237.7
Std Dev 202.5

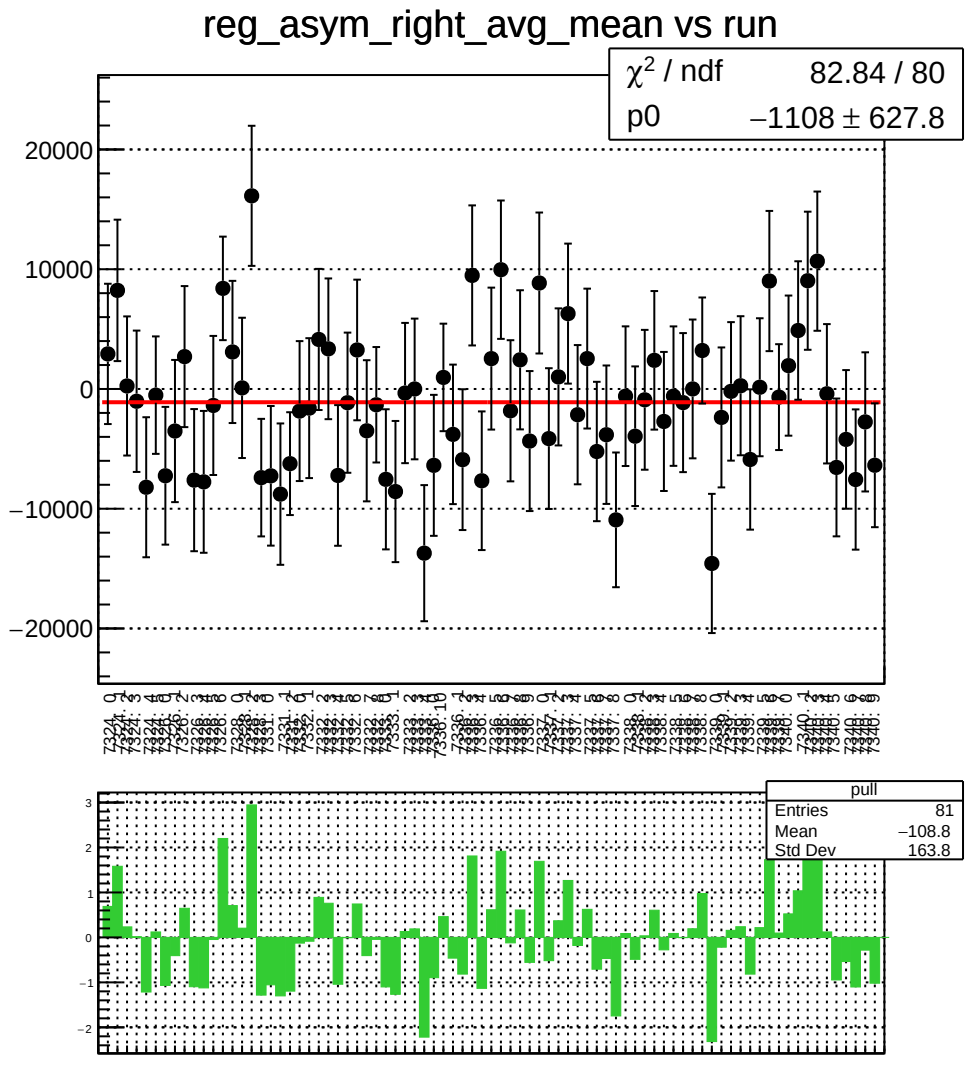

pull1D
Entries 81
Mean 0.01695
Std Dev 0.9544

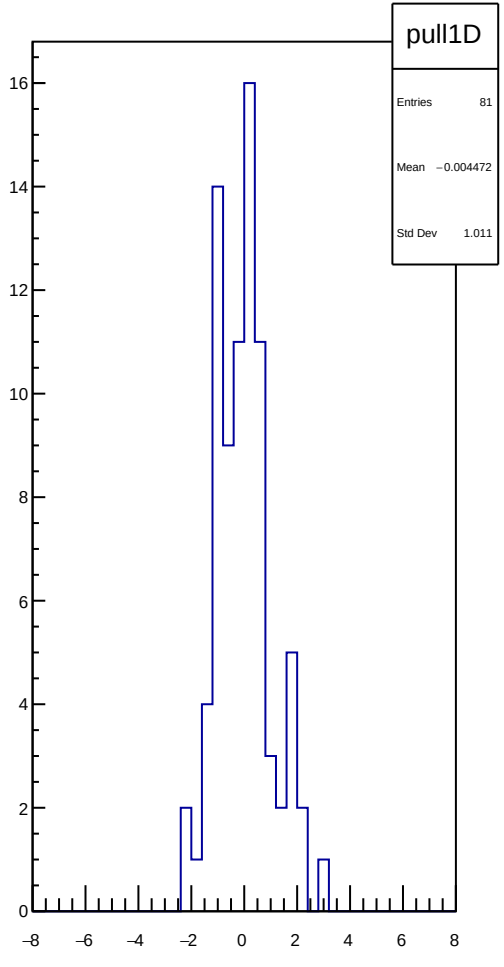

asym_left_dd_correction_rms vs run
χ² / ndf 2.477e+04 / 80
p0 911.2 ± 0.7354
1200
1100
1000
900
800
700

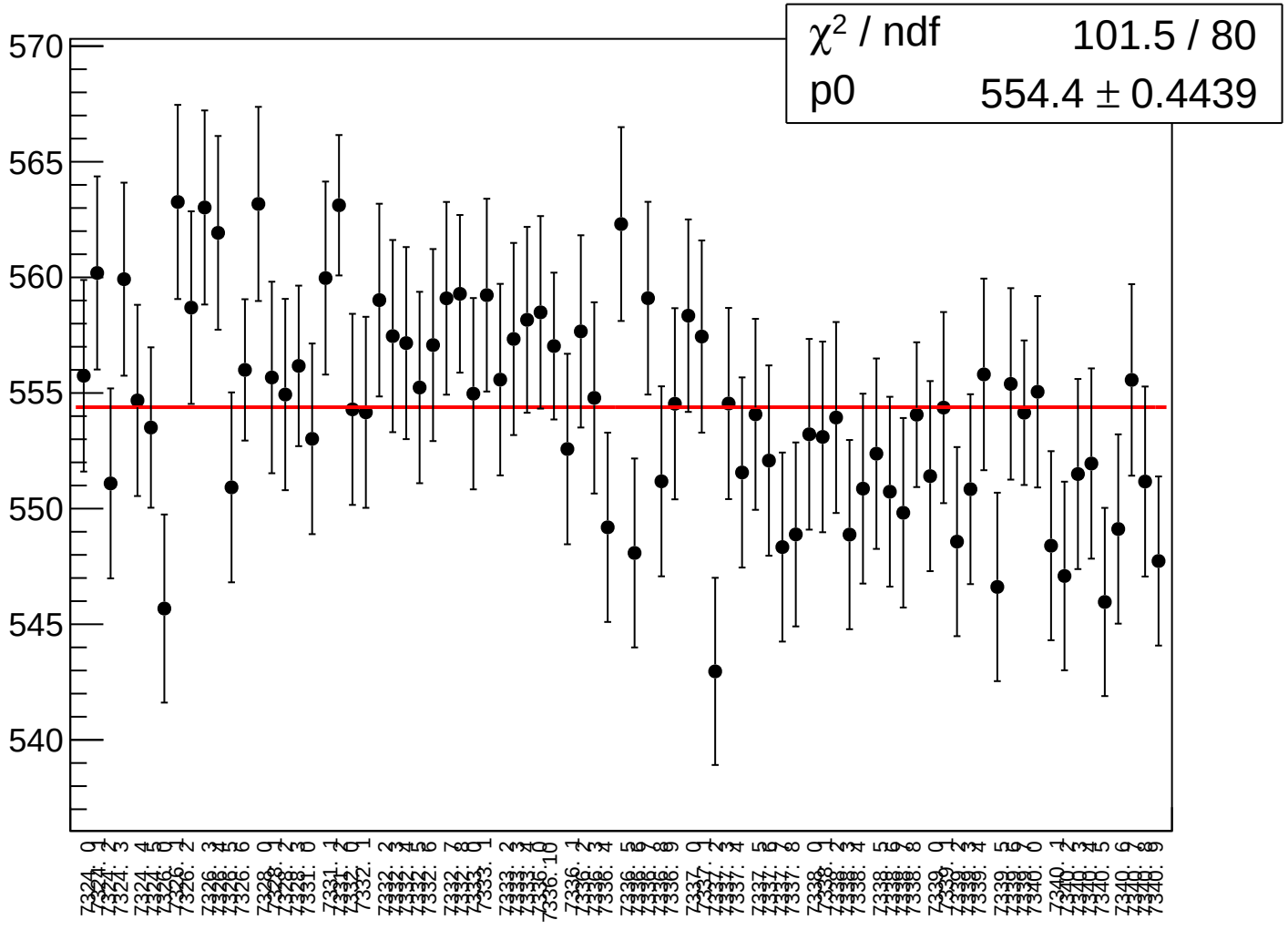

asym_left_dd_mean vs run
χ² / ndf 75.98 / 80
p0 −1558 ± 1228
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 212.8
Std Dev 170.1
3
2
1
0
−1
−2

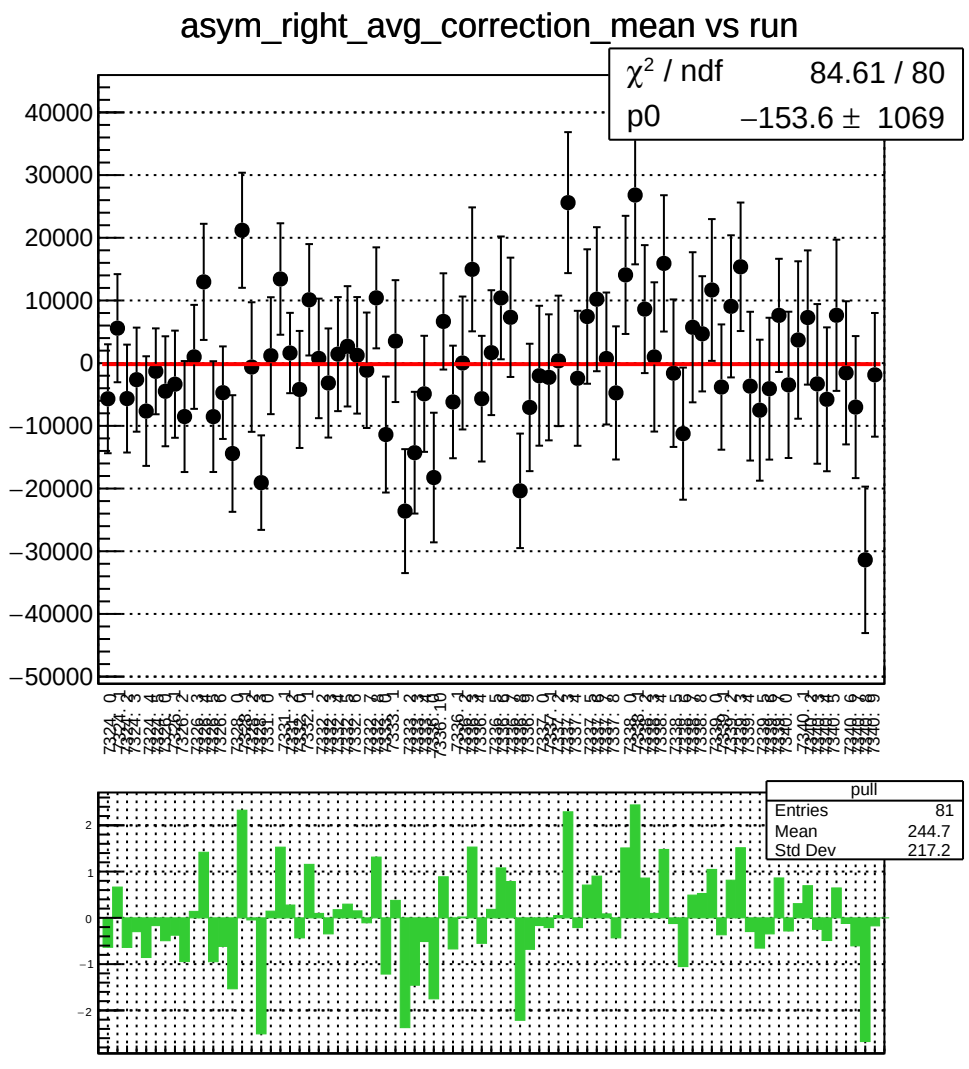

pull1D
Entries 81
Mean −0.00938
Std Dev 0.9685
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

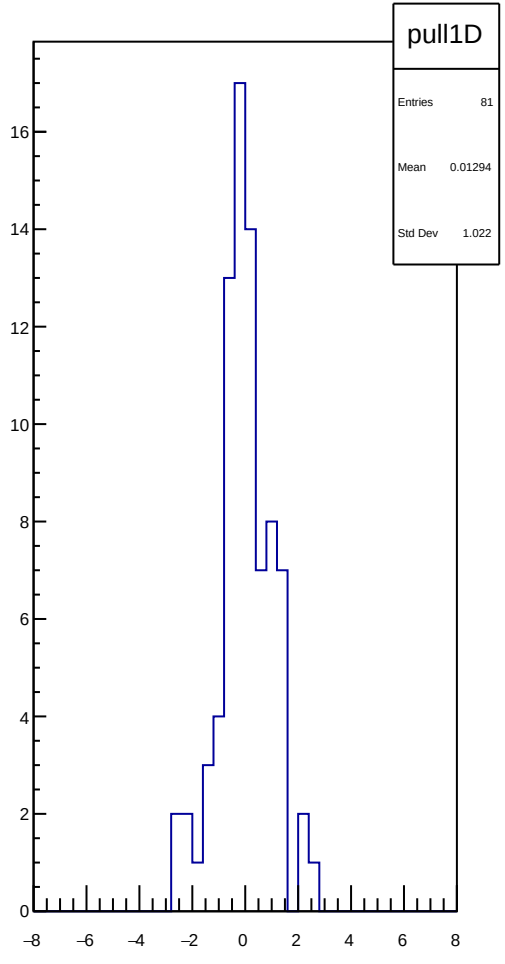

asym_left_dd_rms vs run
χ^2 / ndf 1.356e+04 / 80
p0 1079 ± 0.868
1350
1300
1250
1200
1150
1100
1050
1000
950
900

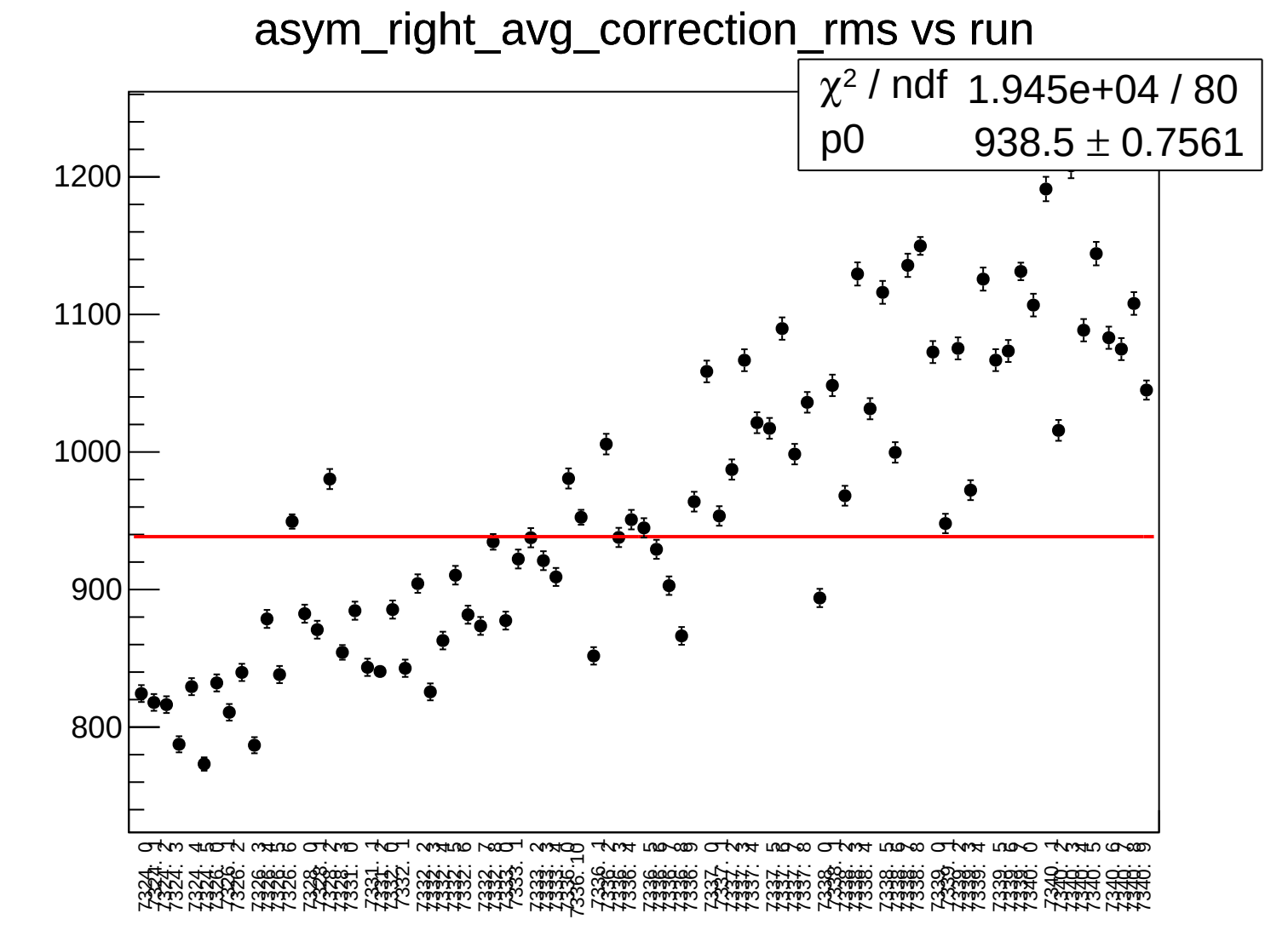

reg_asym_right_avg_mean vs run
χ² / ndf 82.84 / 80
p0 −1108 ± 627.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −108.8
Std Dev 163.8
3
2
1
0
−1
−2

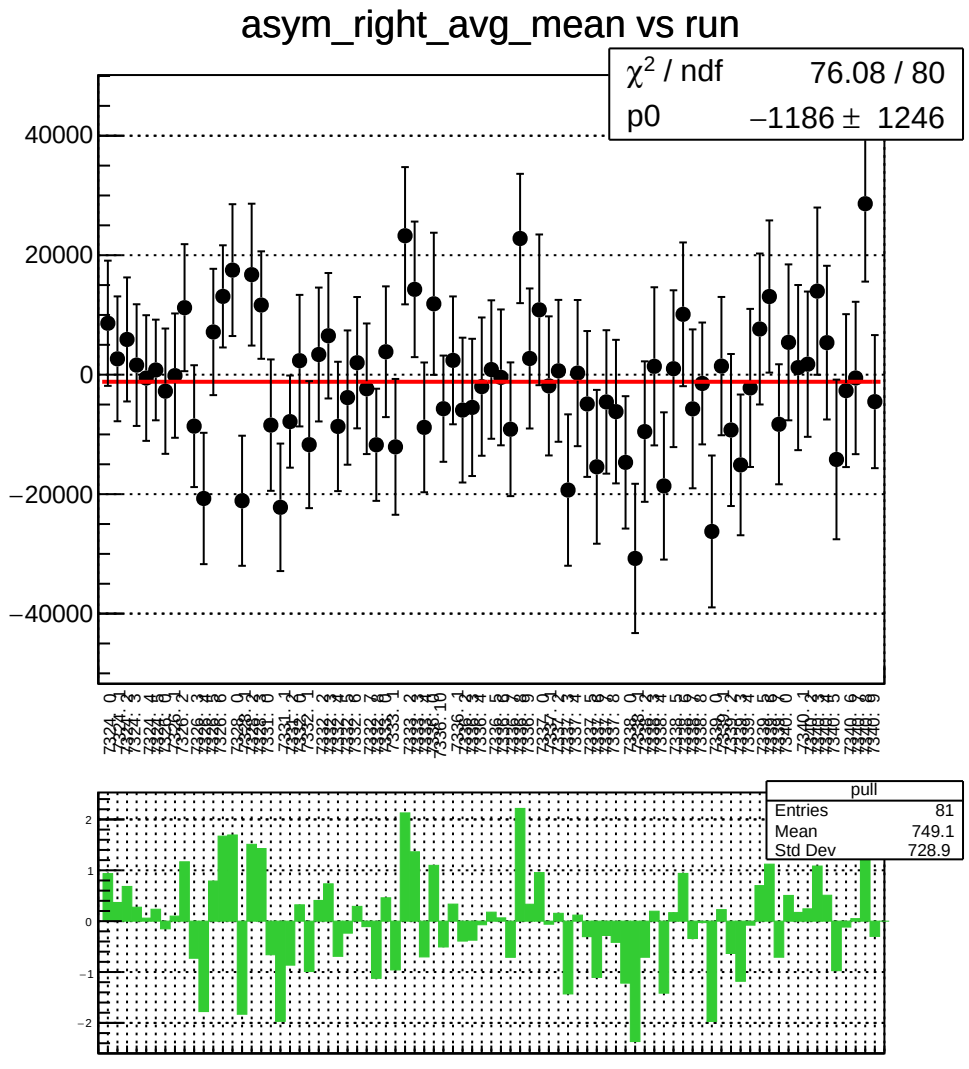

pull1D
Entries 81
Mean −0.004472
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

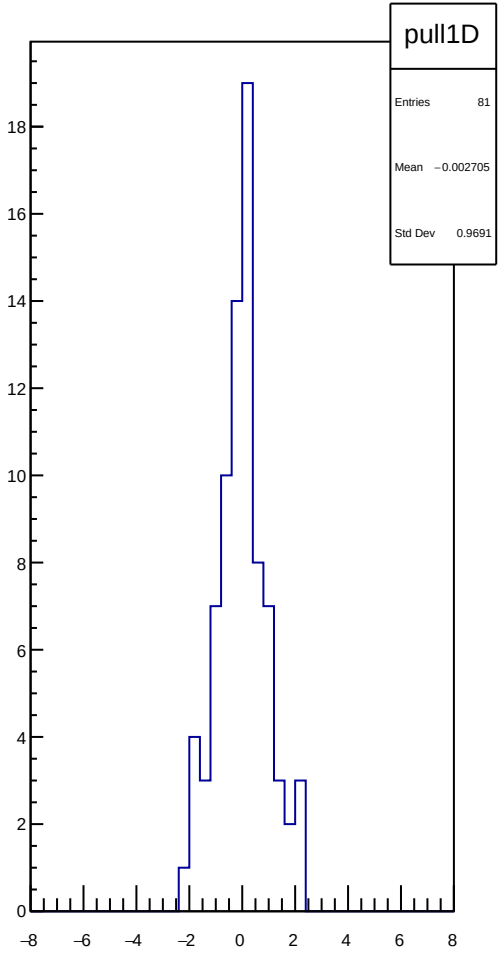

reg_asym_right_avg_rms vs run
χ^2 / ndf 101.5 / 80
p0 554.4 ± 0.4439
570
565
560
555
550
545
540

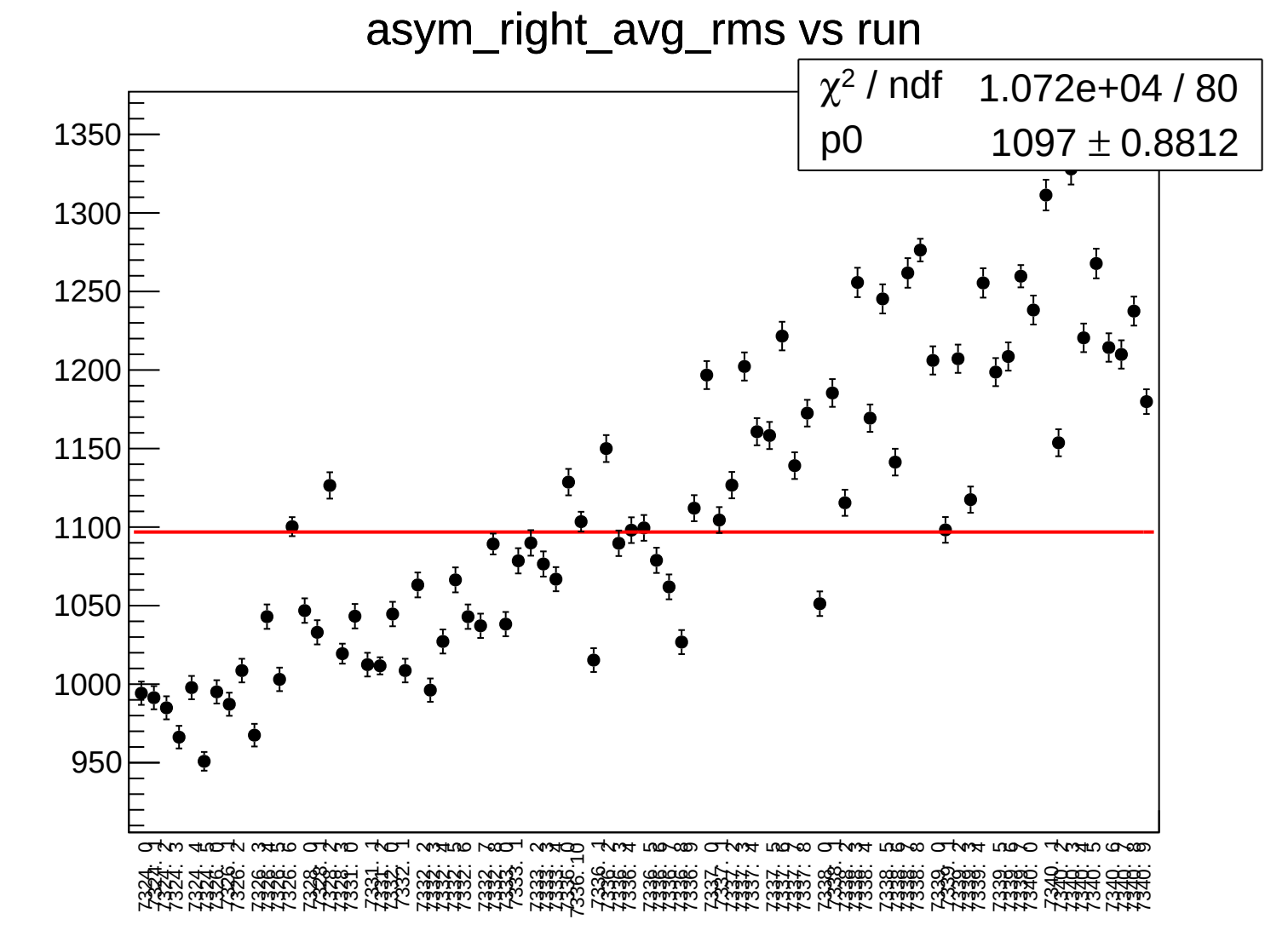

asym_right_avg_correction_mean vs run
χ² / ndf 84.61 / 80
p0 −153.6 ± 1069
pull
Entries 81
Mean 244.7
Std Dev 217.2

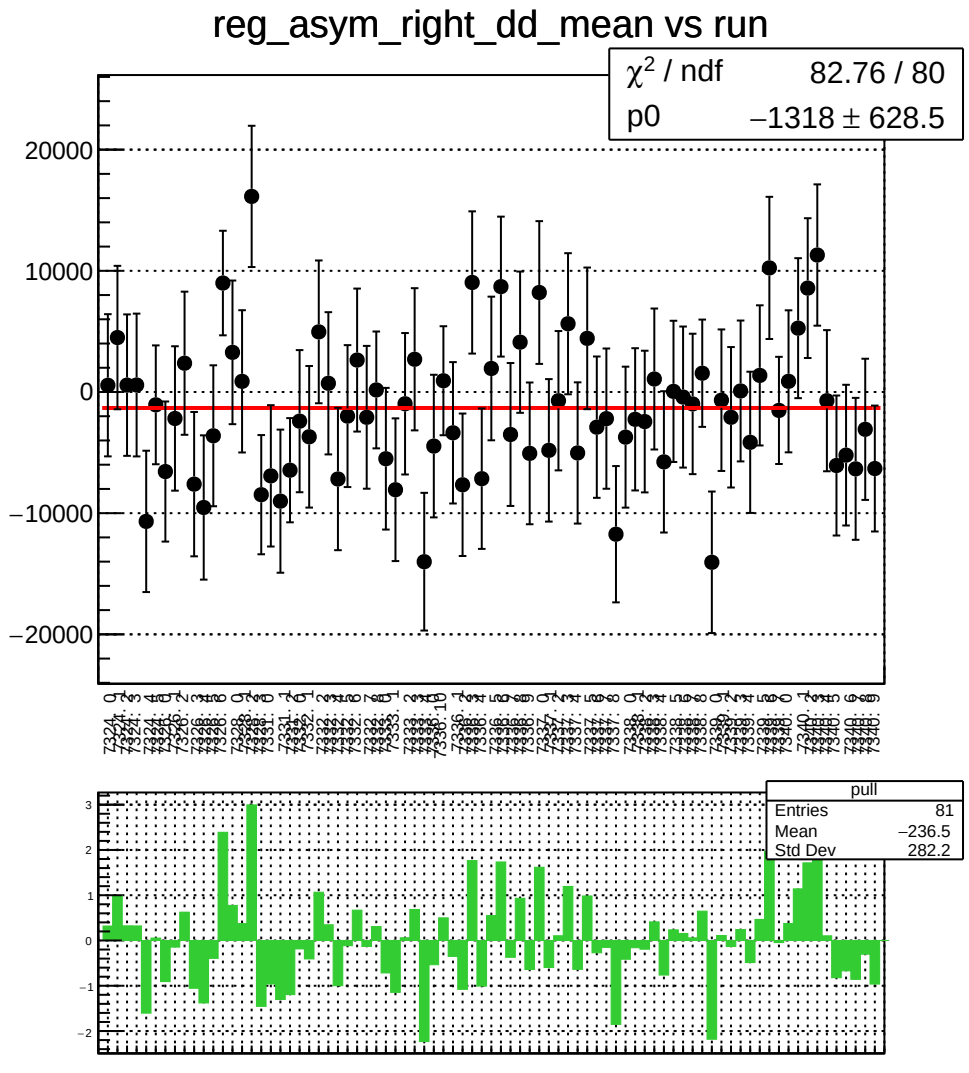

pull1D
Entries 81
Mean 0.01294
Std Dev 1.022

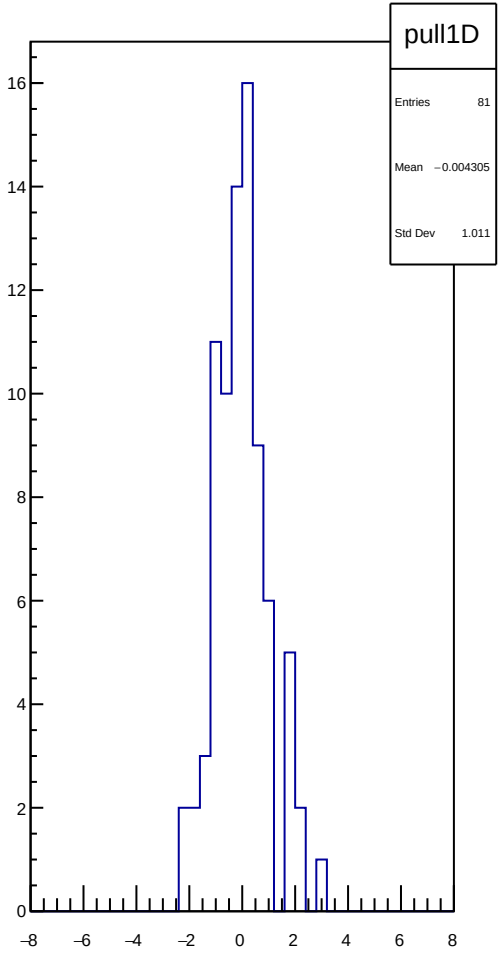

asym_right_avg_correction_rms vs run
χ² / ndf 1.945e+04 / 80
p0 938.5 ± 0.7561
1200
1100
1000
900
800

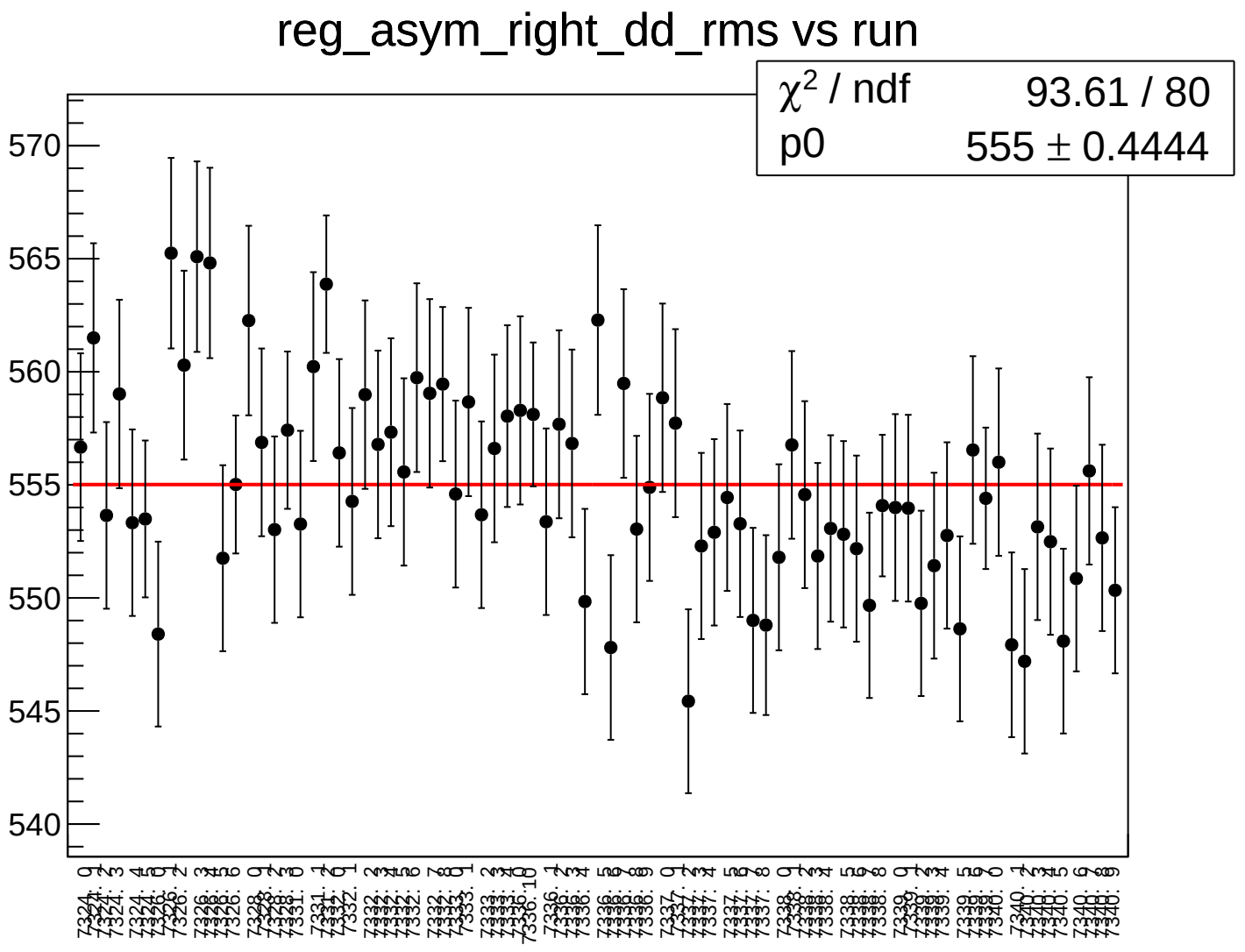

asym_right_avg_mean vs run
χ² / ndf 76.08 / 80
p0 −1186 ± 1246
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 749.1
Std Dev 728.9
2
1
0
−1
−2

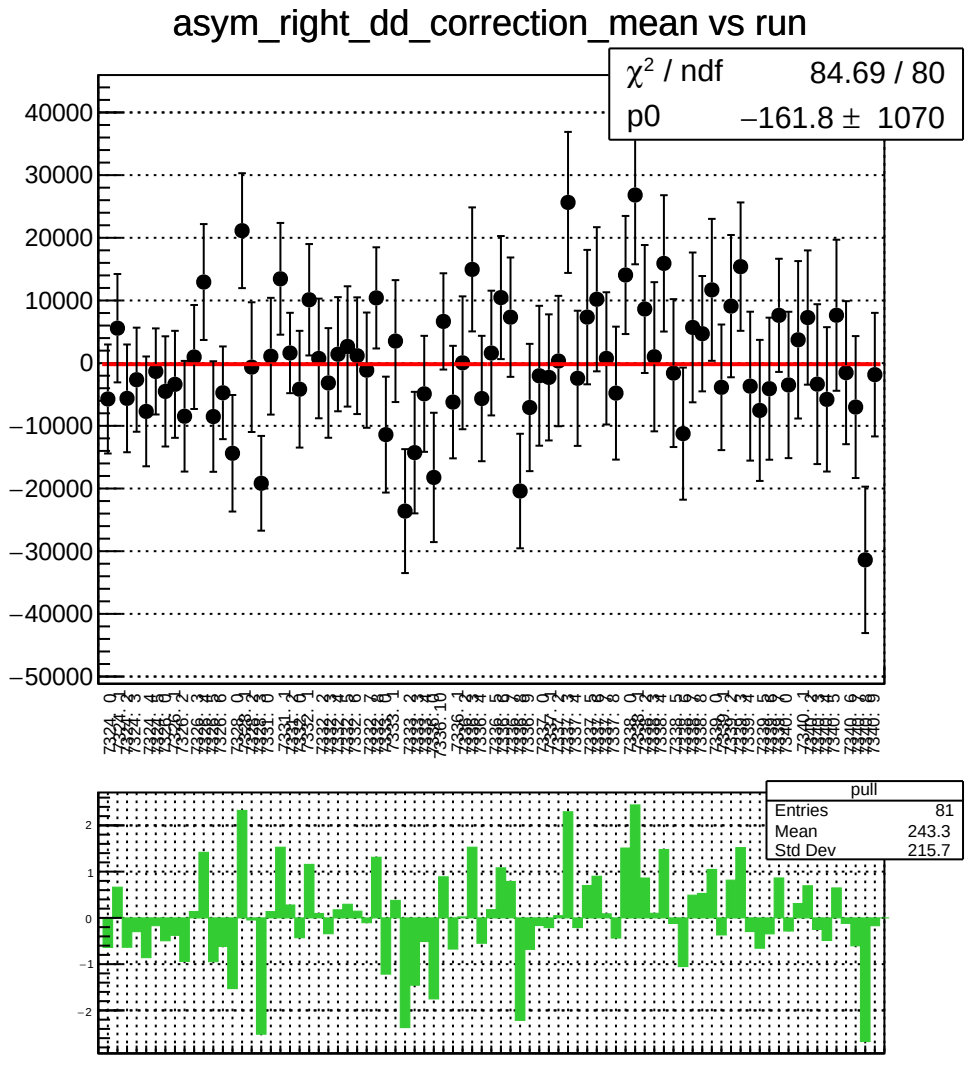

pull1D
Entries 81
Mean −0.002705
Std Dev 0.9691
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

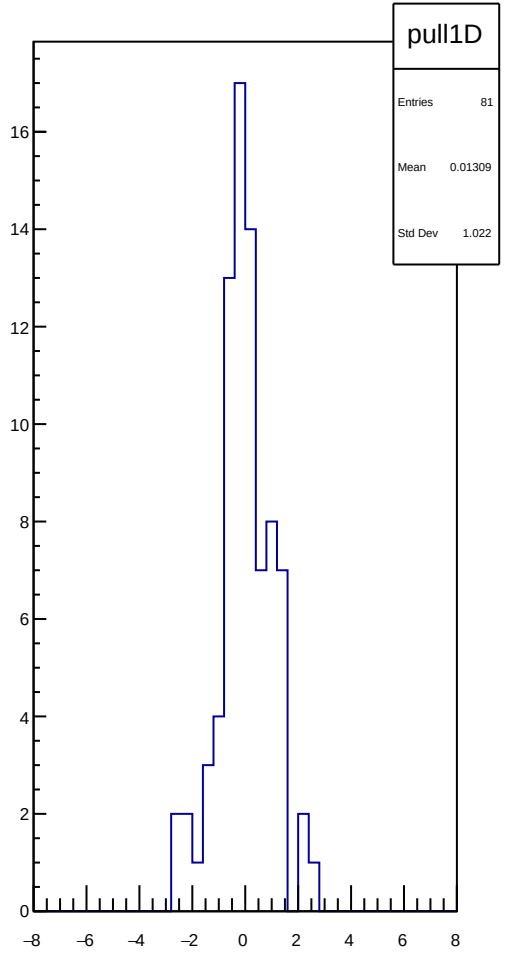

asym_right_avg_rms vs run
χ² / ndf 1.072e+04 / 80
p0 1097 ± 0.8812
1350
1300
1250
1200
1150
1100
1050
1000
950

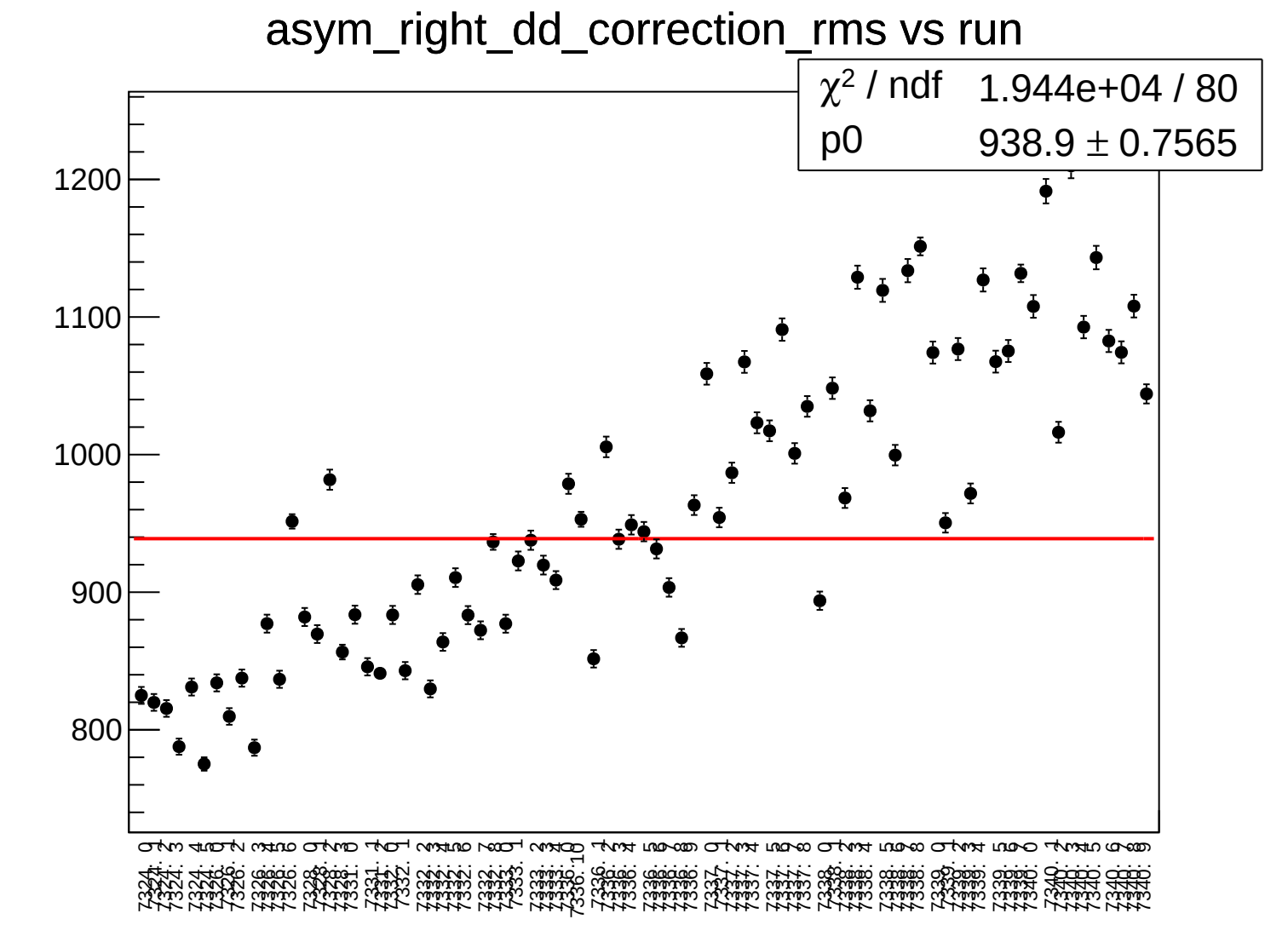

reg_asym_right_dd_mean vs run
χ² / ndf 82.76 / 80
p0 −1318 ± 628.5
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −236.5
Std Dev 282.2
3
2
1
0
−1
−2

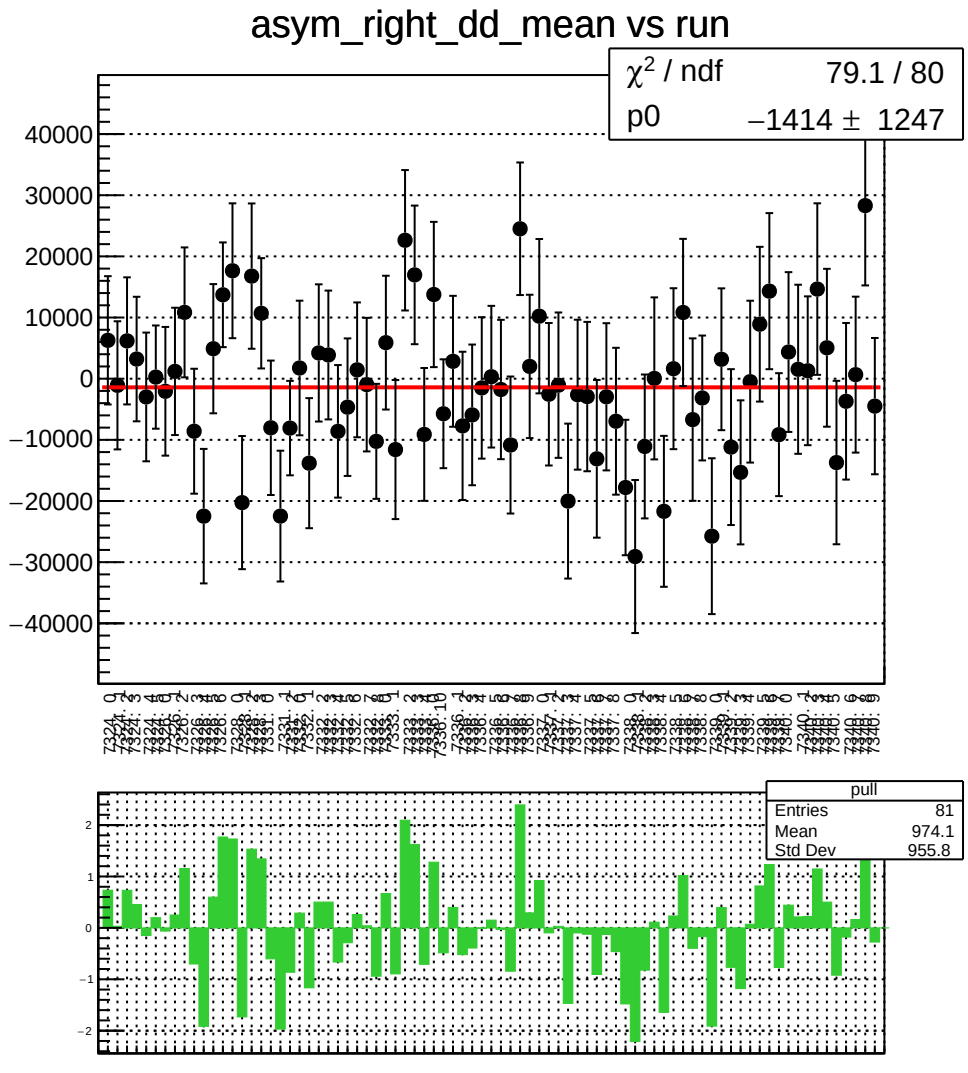

pull1D
Entries 81
Mean −0.004305
Std Dev 1.011
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

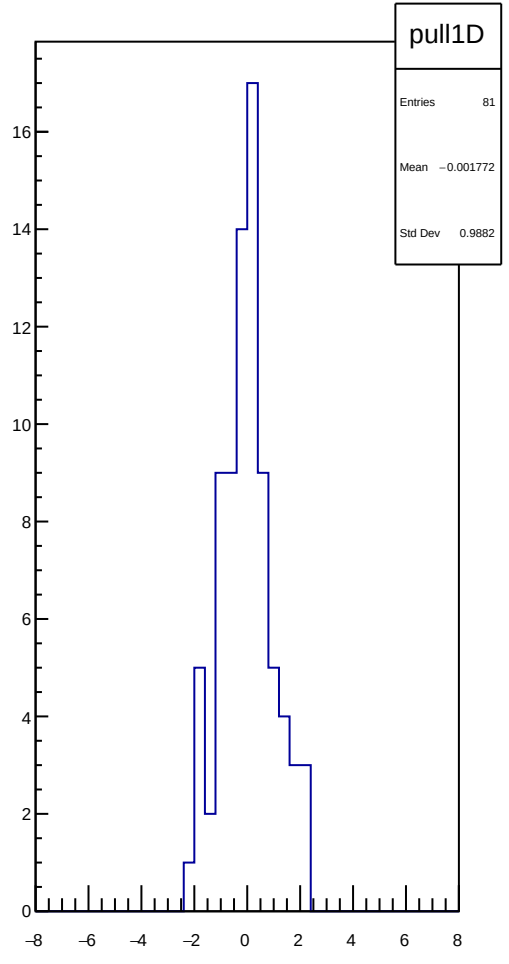

reg_asym_right_dd_rms vs run
χ^2 / ndf 93.61 / 80
p0 555 ± 0.4444
570
565
560
555
550
545
540

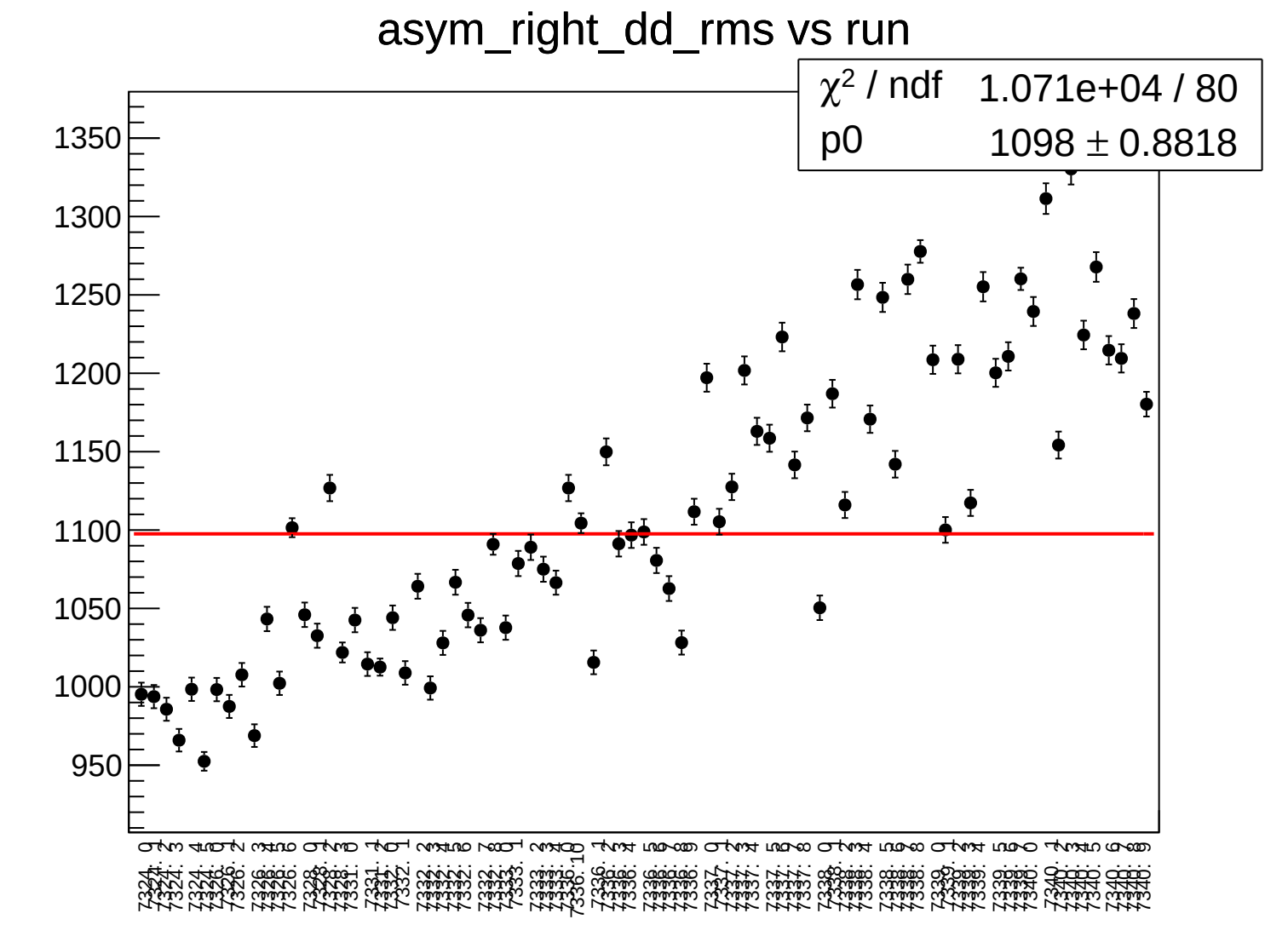

asym_right_dd_correction_mean vs run
χ² / ndf 84.69 / 80
p0 −161.8 ± 1070
pull
Entries 81
Mean 243.3
Std Dev 215.7

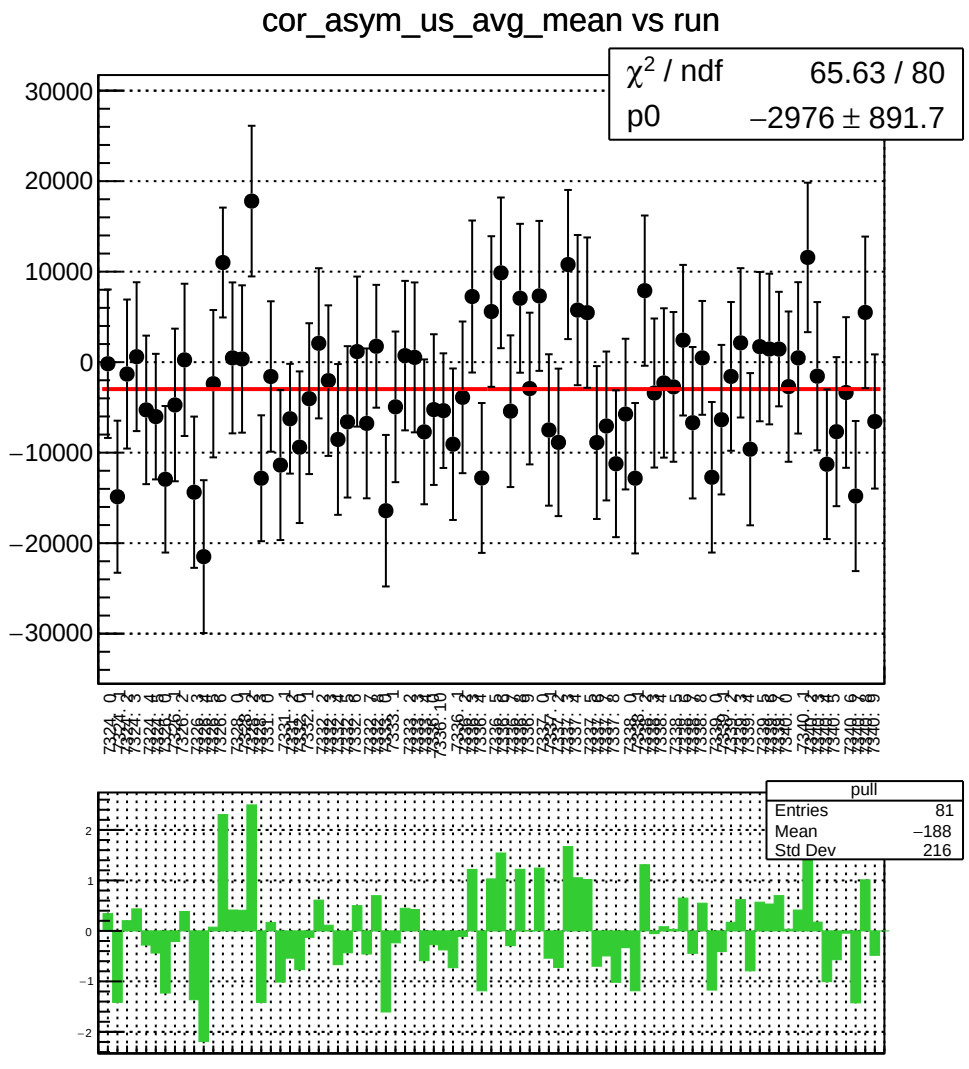

pull1D
Entries 81
Mean 0.01309
Std Dev 1.022

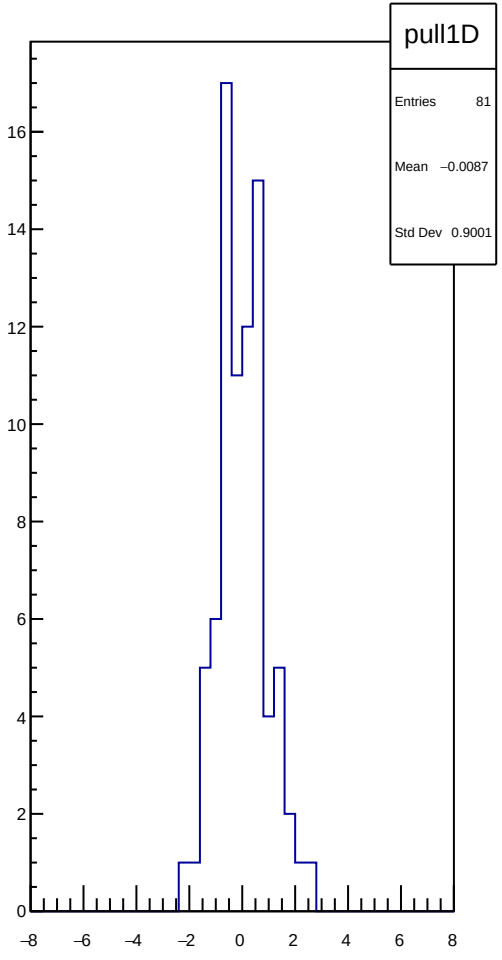

asym_right_dd_correction_rms vs run
χ² / ndf 1.944e+04 / 80
p0 938.9 ± 0.7565
1200
1100
1000
900
800

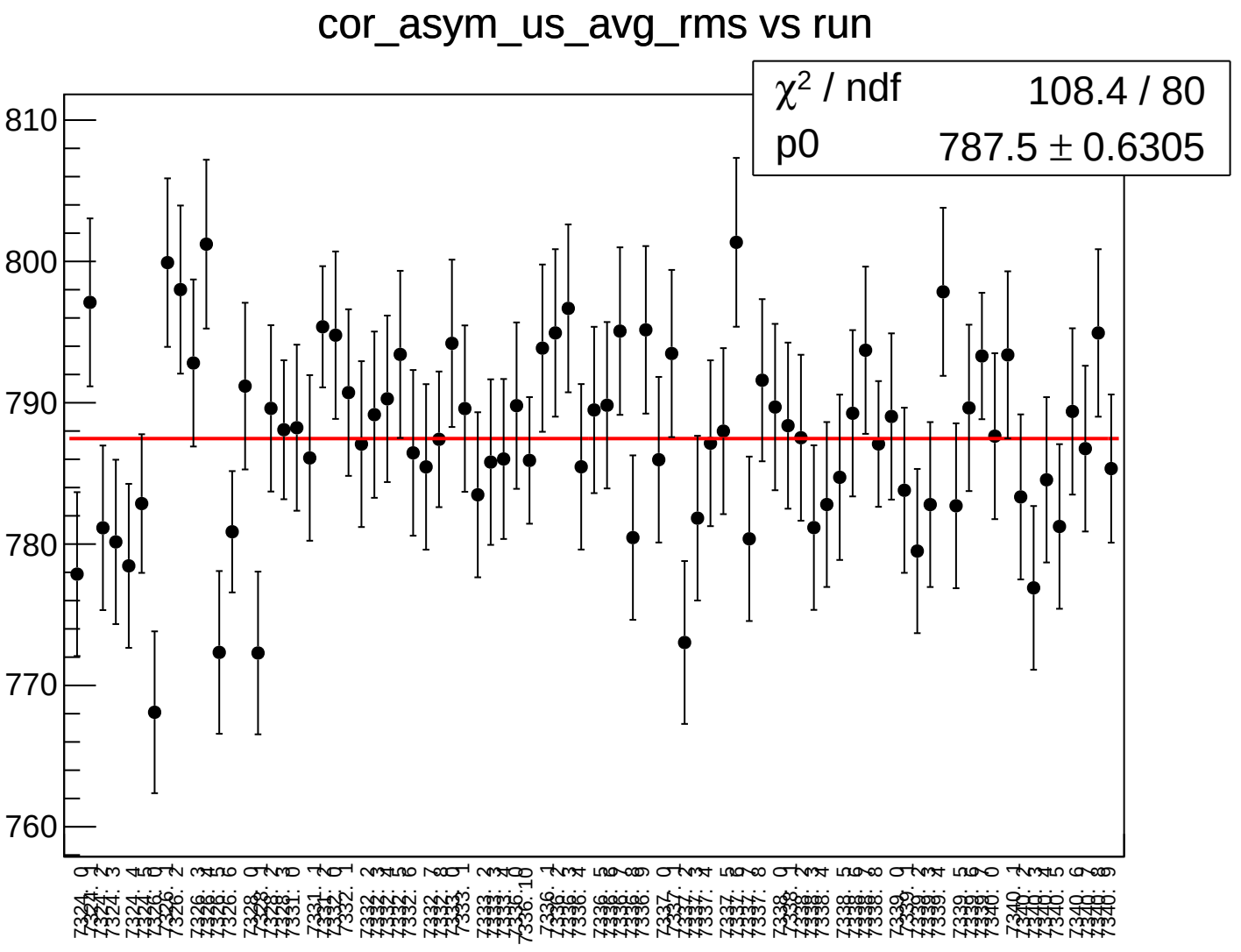

asym_right_dd_mean vs run
χ² / ndf 79.1 / 80
p0 −1414 ± 1247
pull
Entries 81
Mean 974.1
Std Dev 955.8

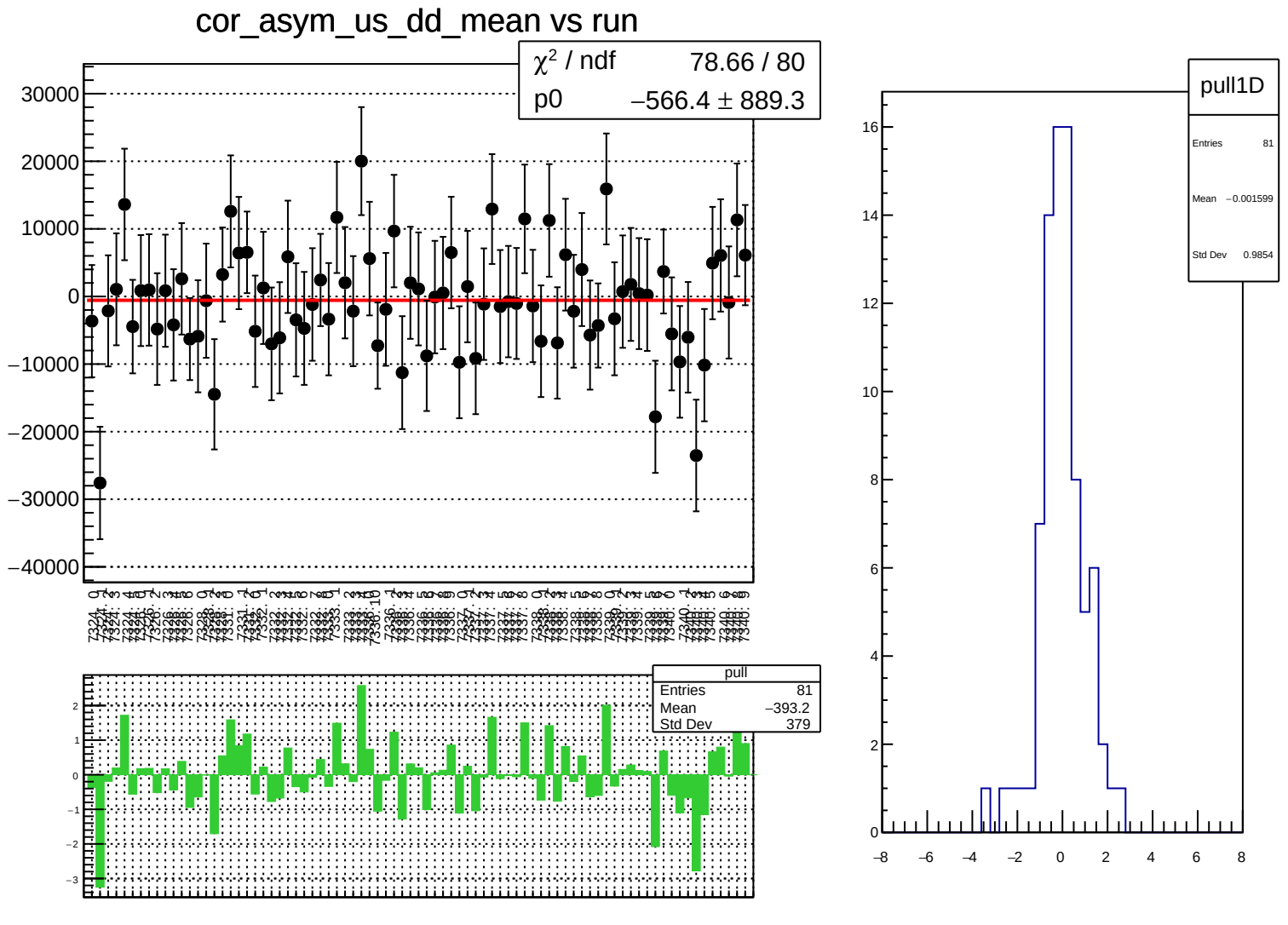

pull1D
Entries 81
Mean −0.001772
Std Dev 0.9882

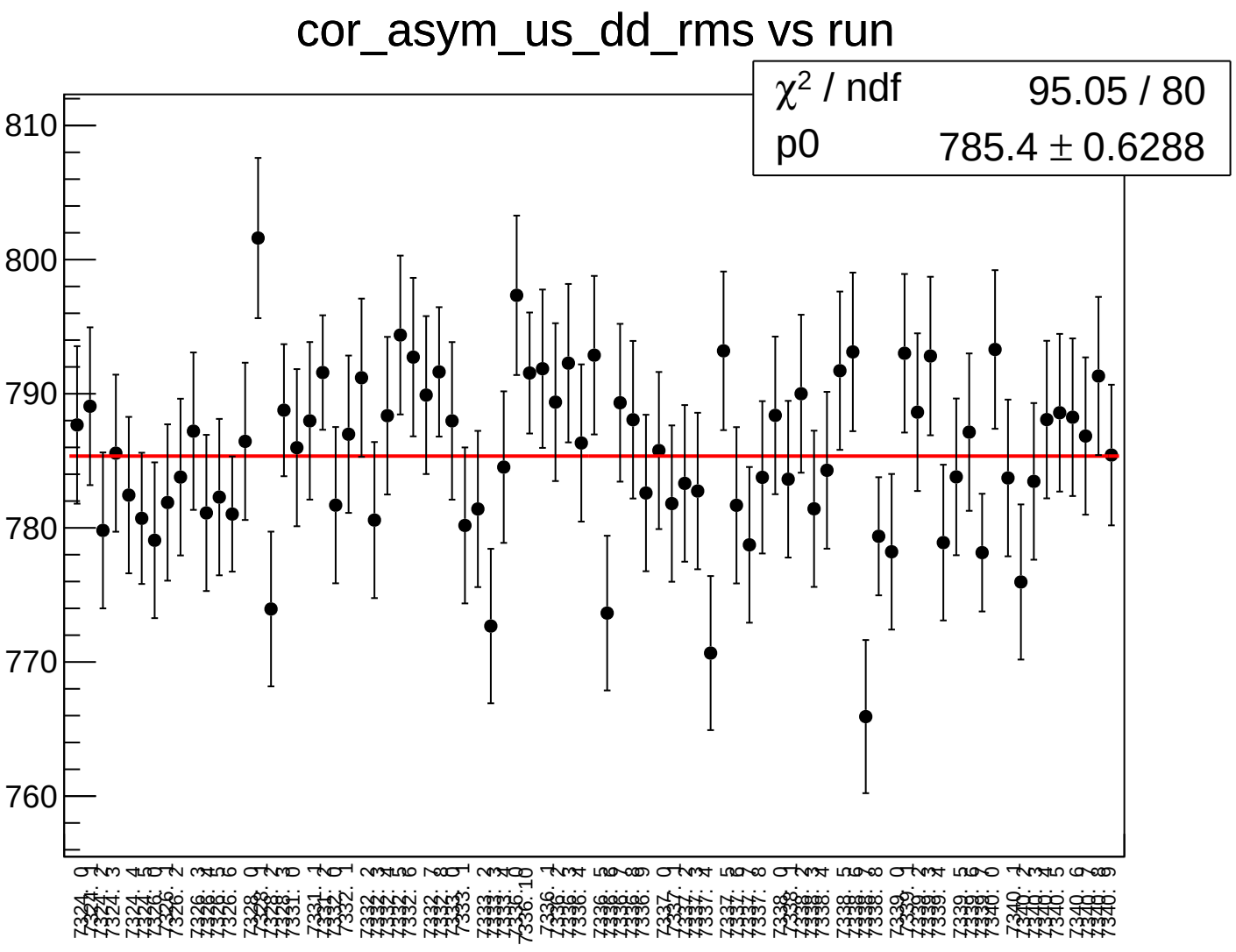

asym_right_dd_rms vs run
χ² / ndf 1.071e+04 / 80
p0 1098 ± 0.8818
1350
1300
1250
1200
1150
1100
1050
1000
950

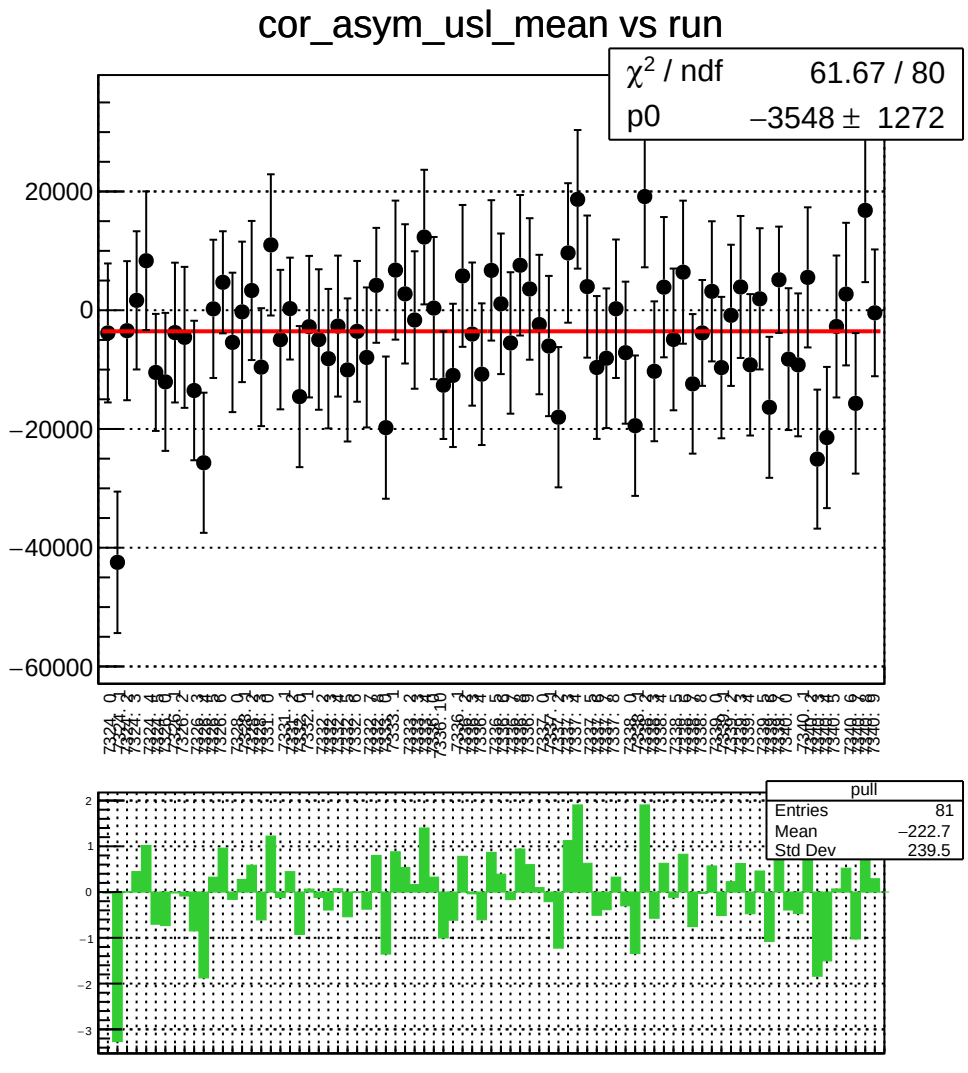

cor_asym_us_avg_mean vs run
χ² / ndf 65.63 / 80
p0 −2976 ± 891.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean −188
Std Dev 216
2
1
0
−1
−2

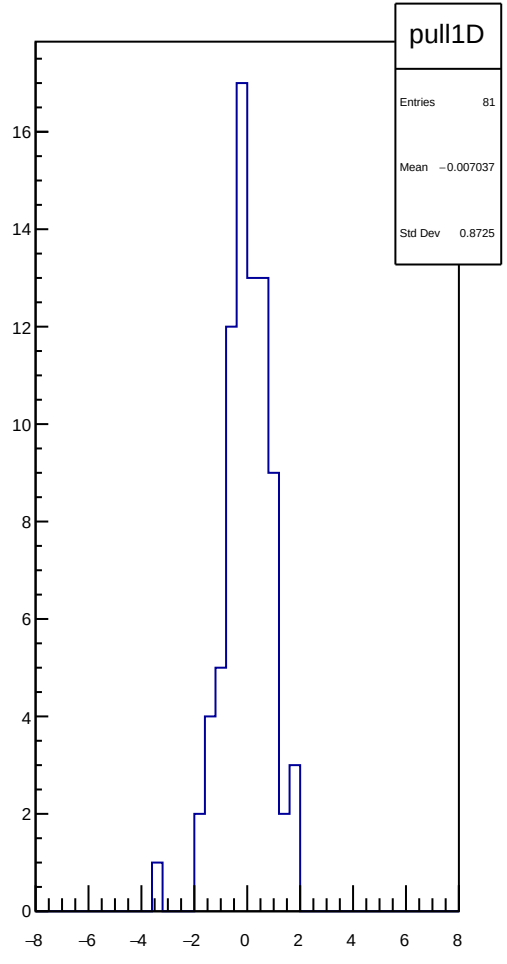

pull1D
Entries 81
Mean −0.0087
Std Dev 0.9001
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

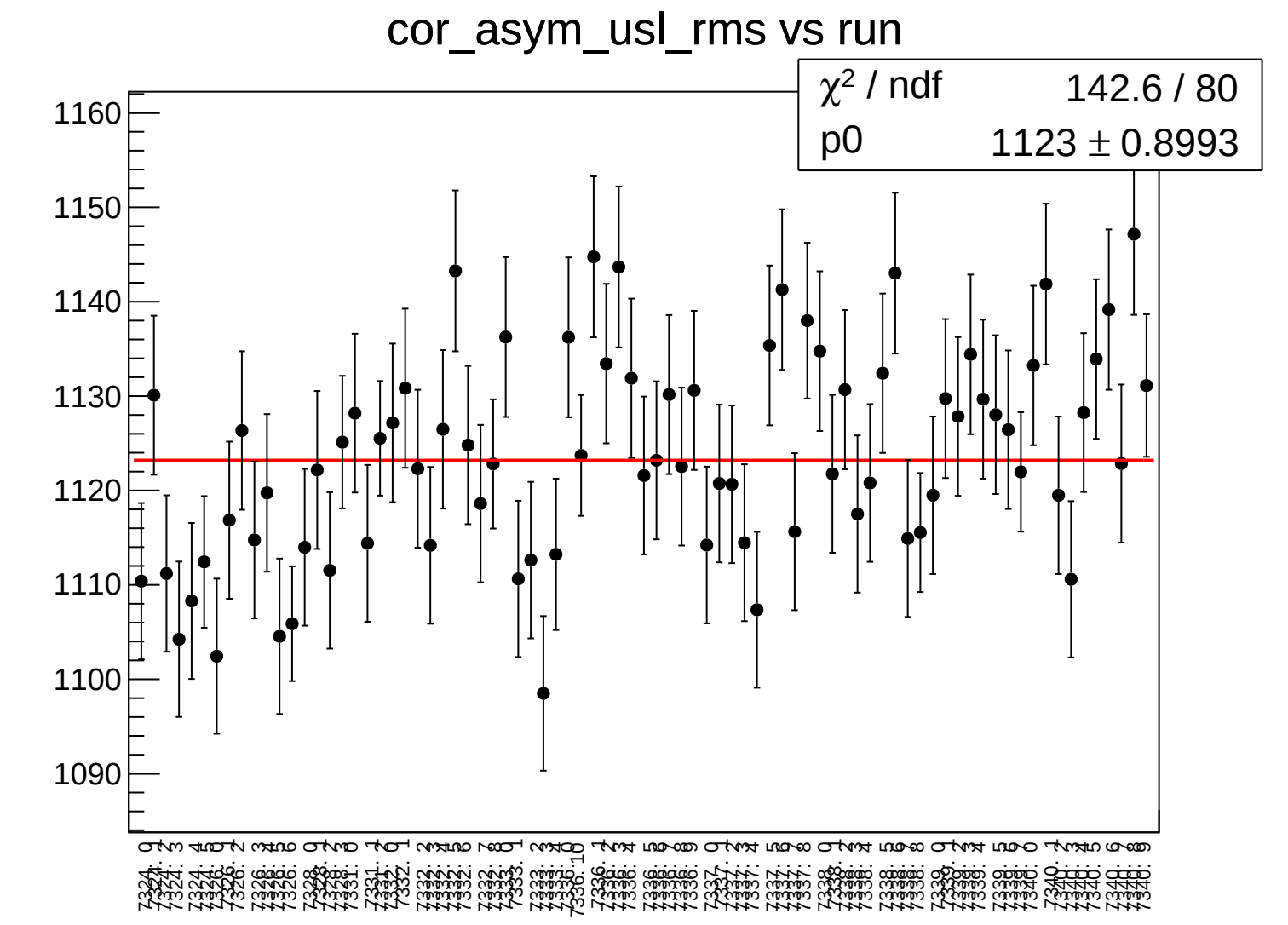

cor_asym_us_avg_rms vs run
χ² / ndf 108.4 / 80
p0 787.5 ± 0.6305
810
800
790
780
770
760

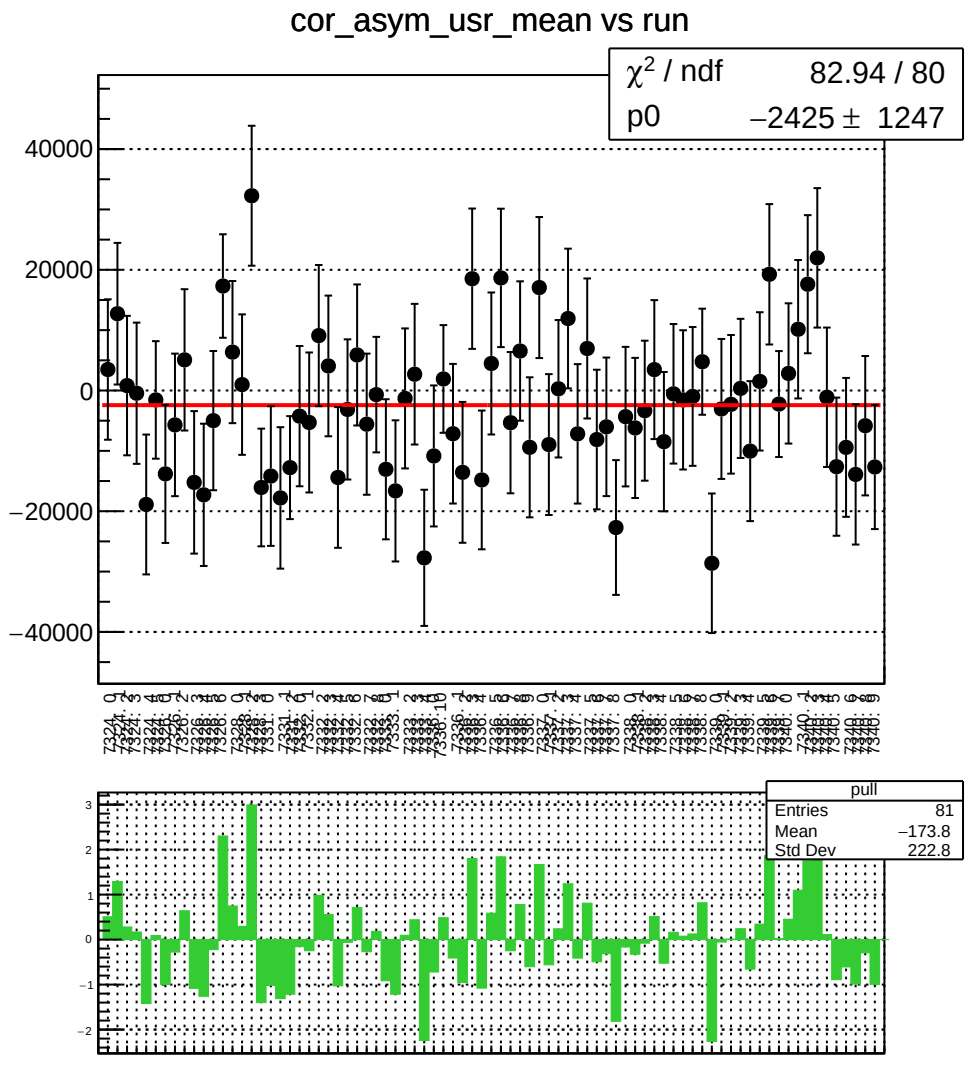

cor_asym_us_dd_mean vs run
χ² / ndf 78.66 / 80
p0 −566.4 ± 889.3
pull
Entries 81
Mean −393.2
Std Dev 379
pull1D
Entries 81
Mean −0.001599
Std Dev 0.9854

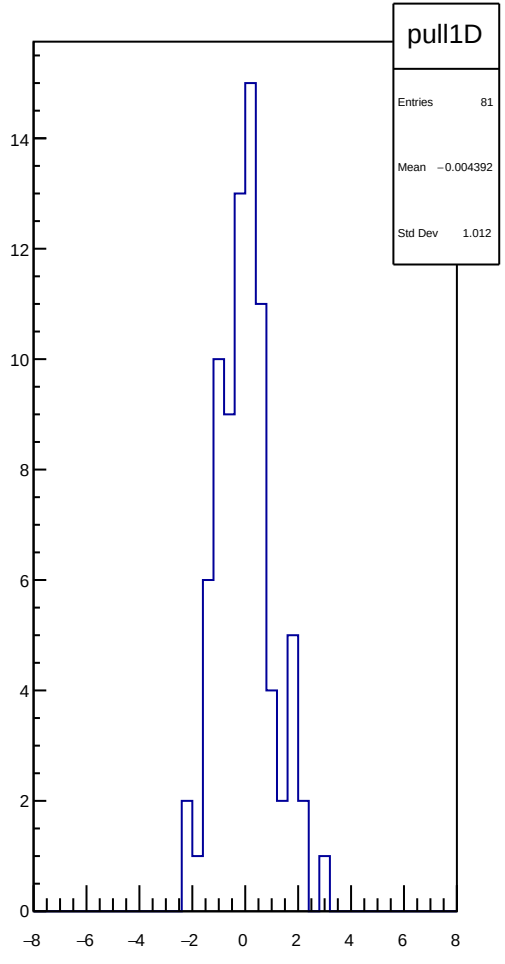

cor_asym_us_dd_rms vs run
χ^2 / ndf 95.05 / 80
p0 785.4 ± 0.6288
810
800
790
780
770
760

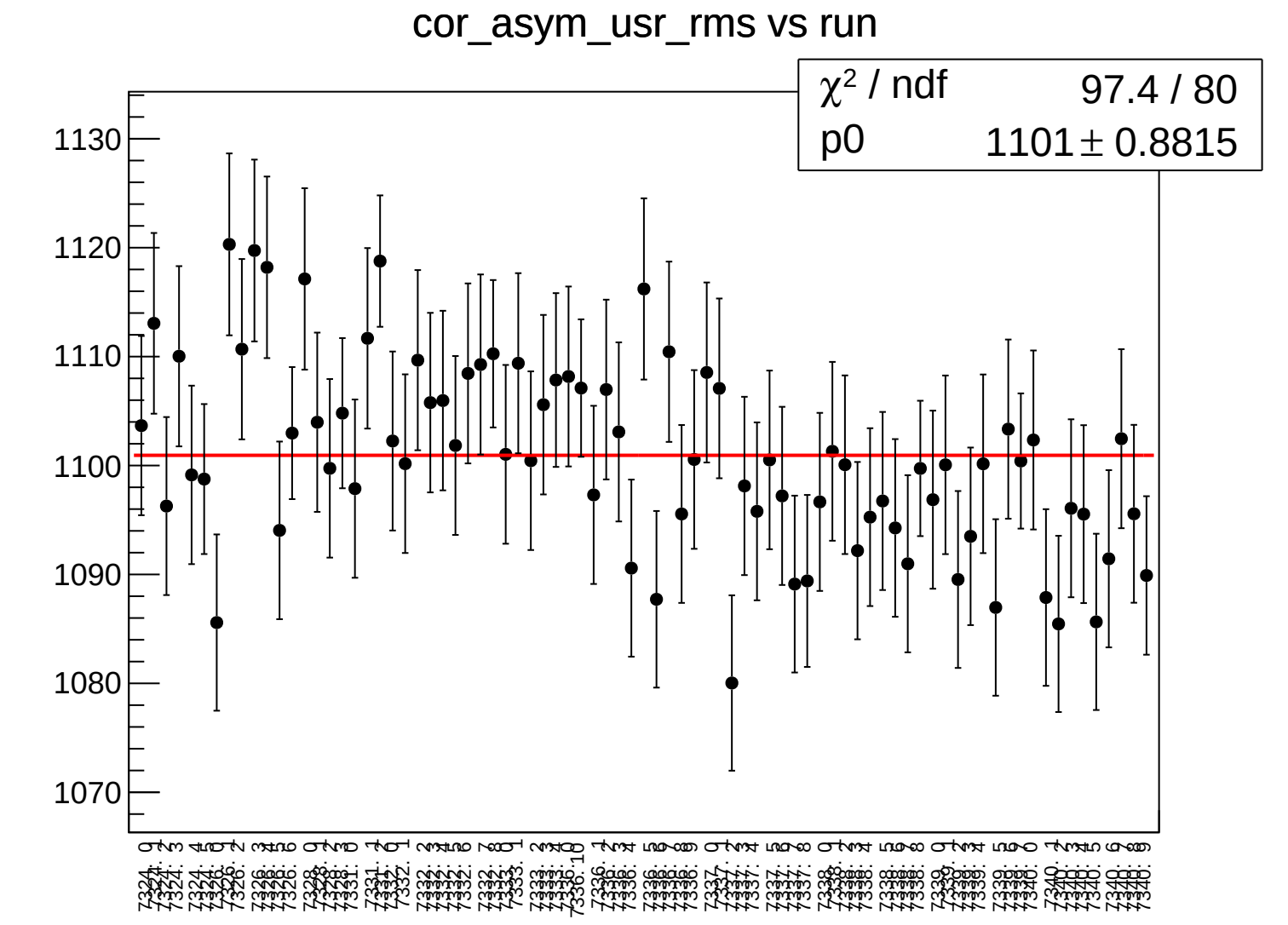

cor_asym_usl_mean vs run
χ² / ndf 61.67 / 80
p0 −3548 ± 1272
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −222.7
Std Dev 239.5
2
1
0
−1
−2
−3

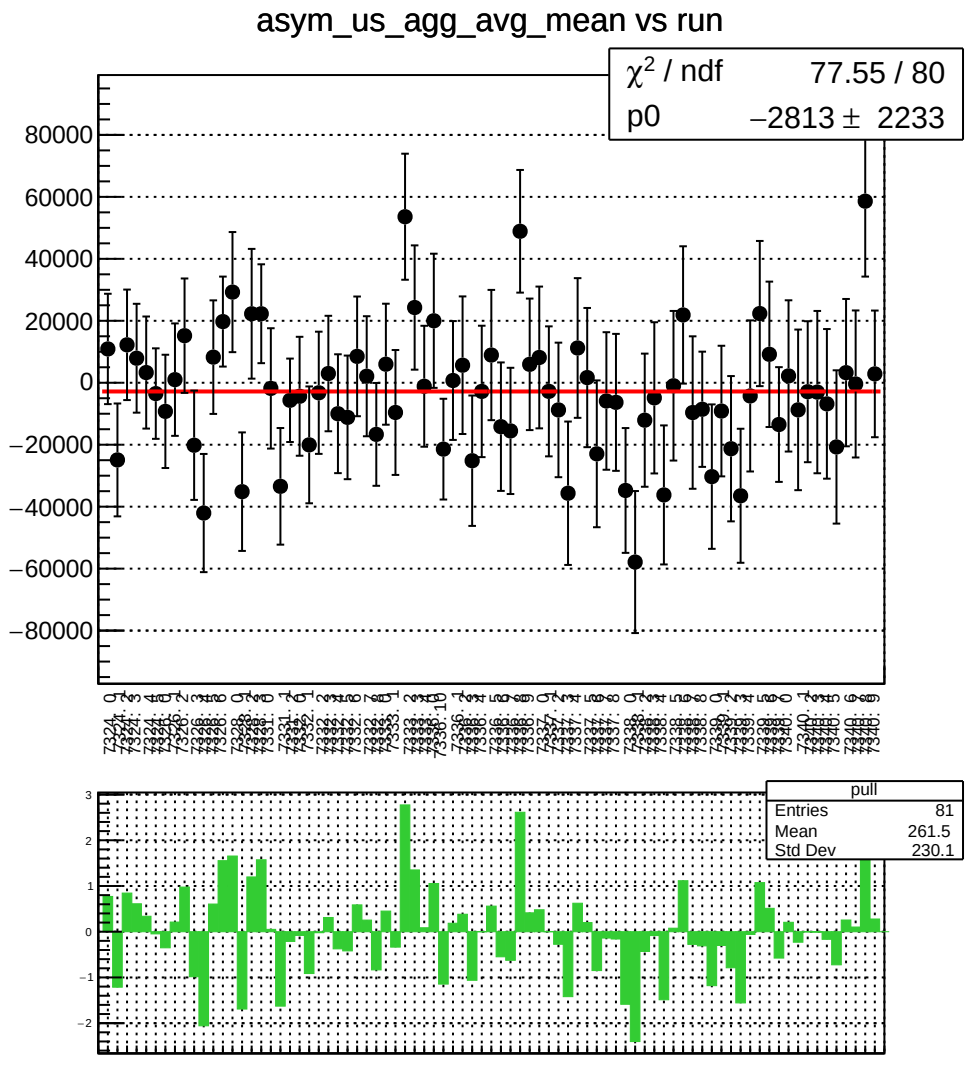

pull1D
Entries 81
Mean −0.007037
Std Dev 0.8725
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

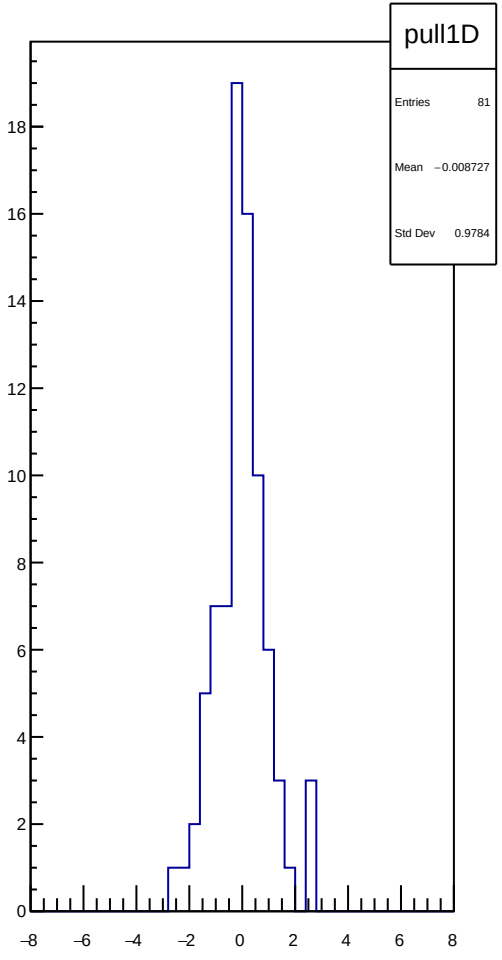

cor_asym_usl_rms vs run
χ² / ndf 142.6 / 80
p0 1123 ± 0.8993
1160
1150
1140
1130
1120
1110
1100
1090

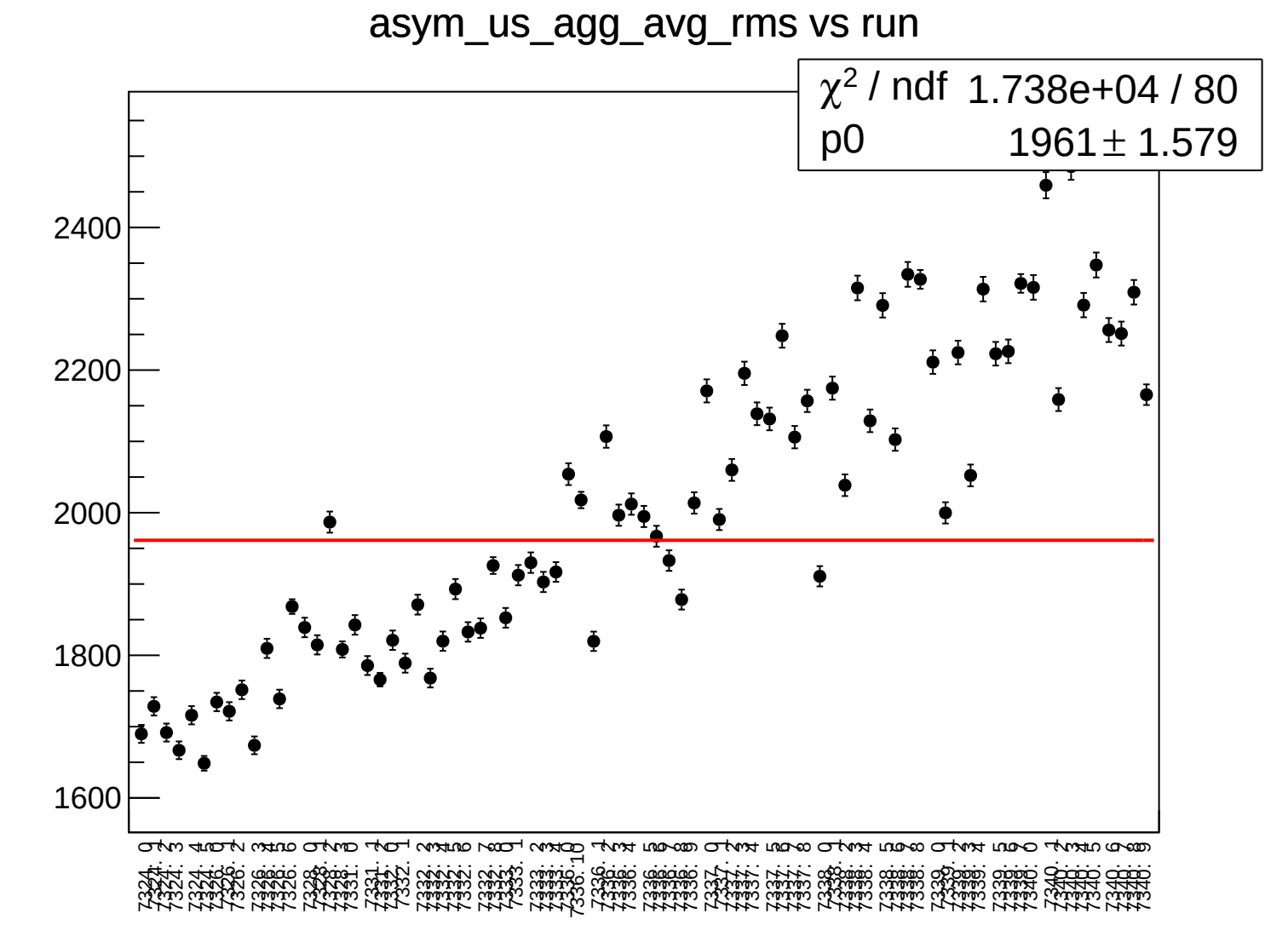

cor_asym_usr_mean vs run
χ² / ndf 82.94 / 80
p0 −2425 ± 1247
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −173.8
Std Dev 222.8
3
2
1
0
−1
−2

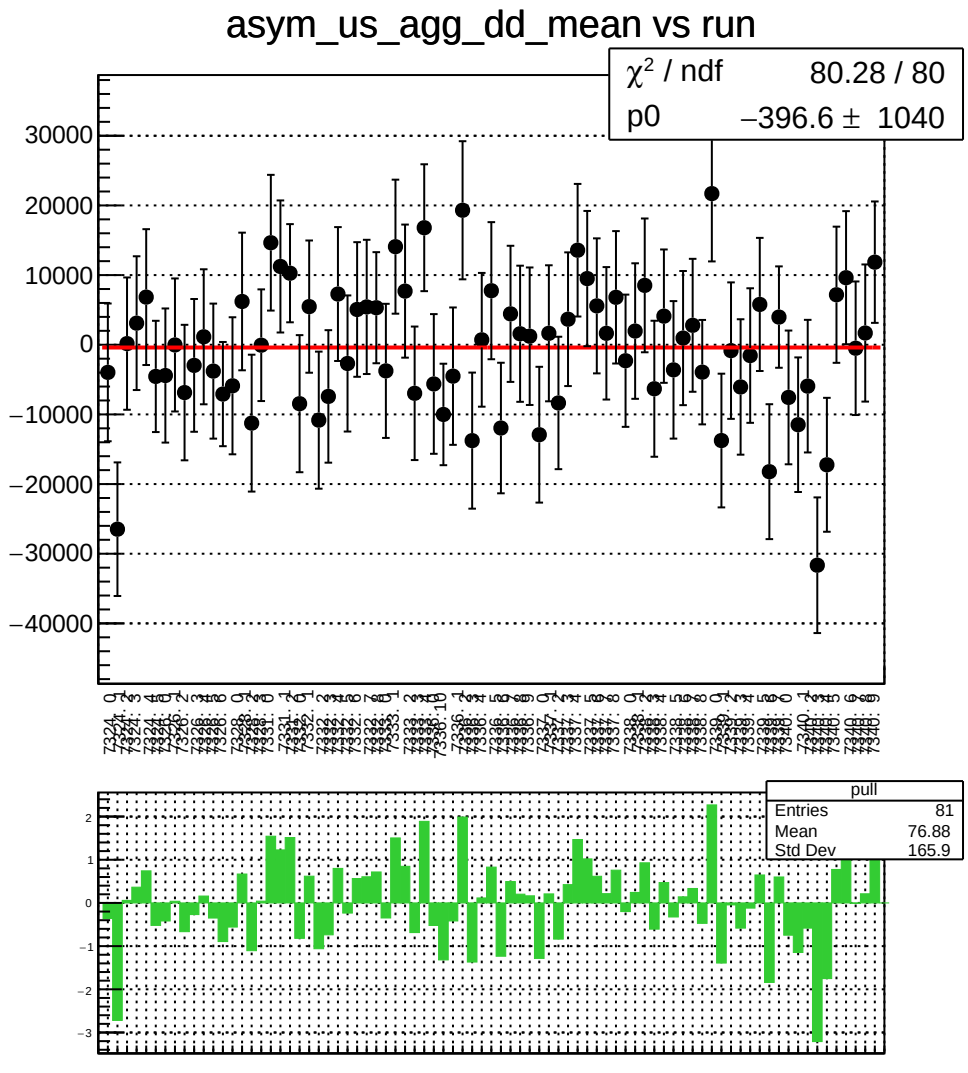

pull1D
Entries 81
Mean −0.004392
Std Dev 1.012
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

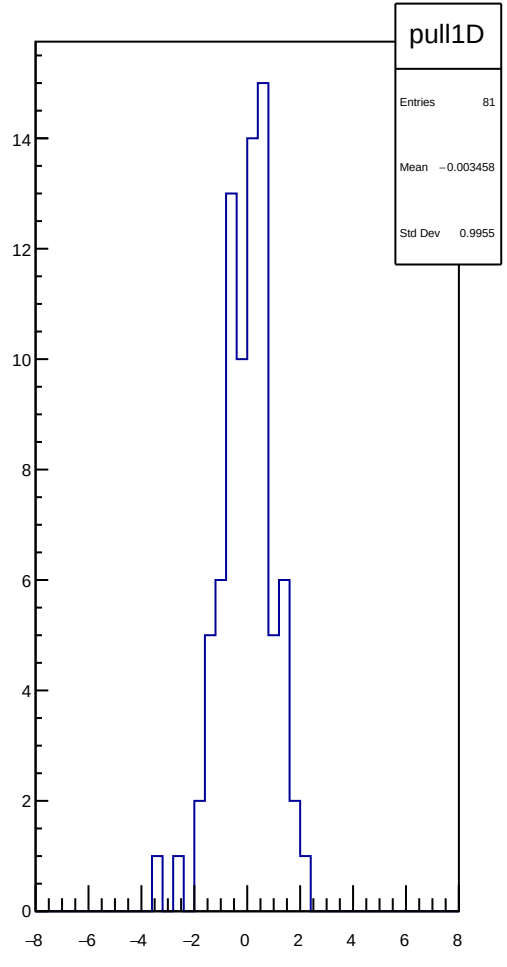

cor_asym_usr_rms vs run
χ² / ndf 97.4 / 80
p0 1101 ± 0.8815
1130
1120
1110
1100
1090
1080
1070

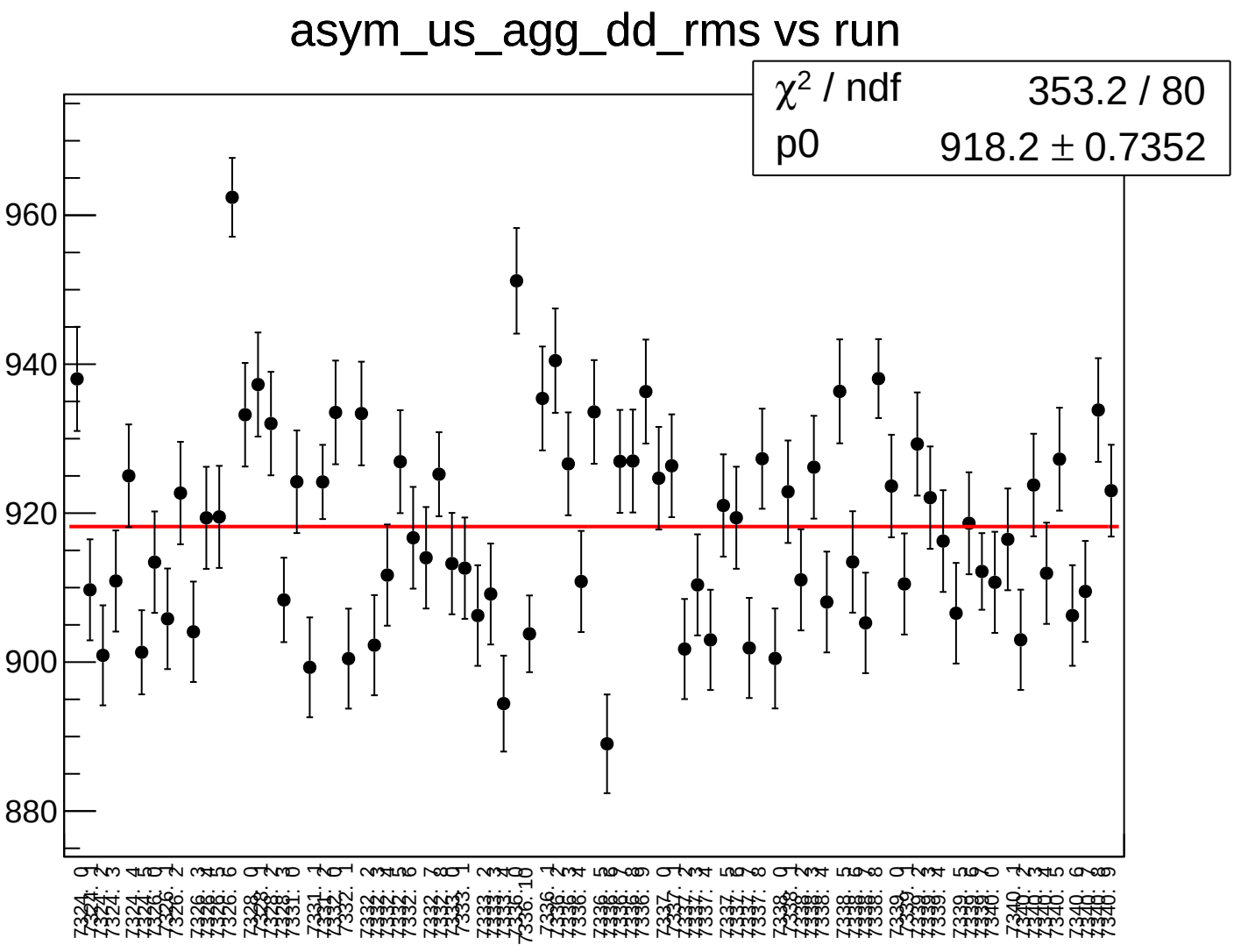

asym_us_agg_avg_mean vs run
χ² / ndf 77.55 / 80
p0 −2813 ± 2233
pull
Entries 81
Mean 261.5
Std Dev 230.1

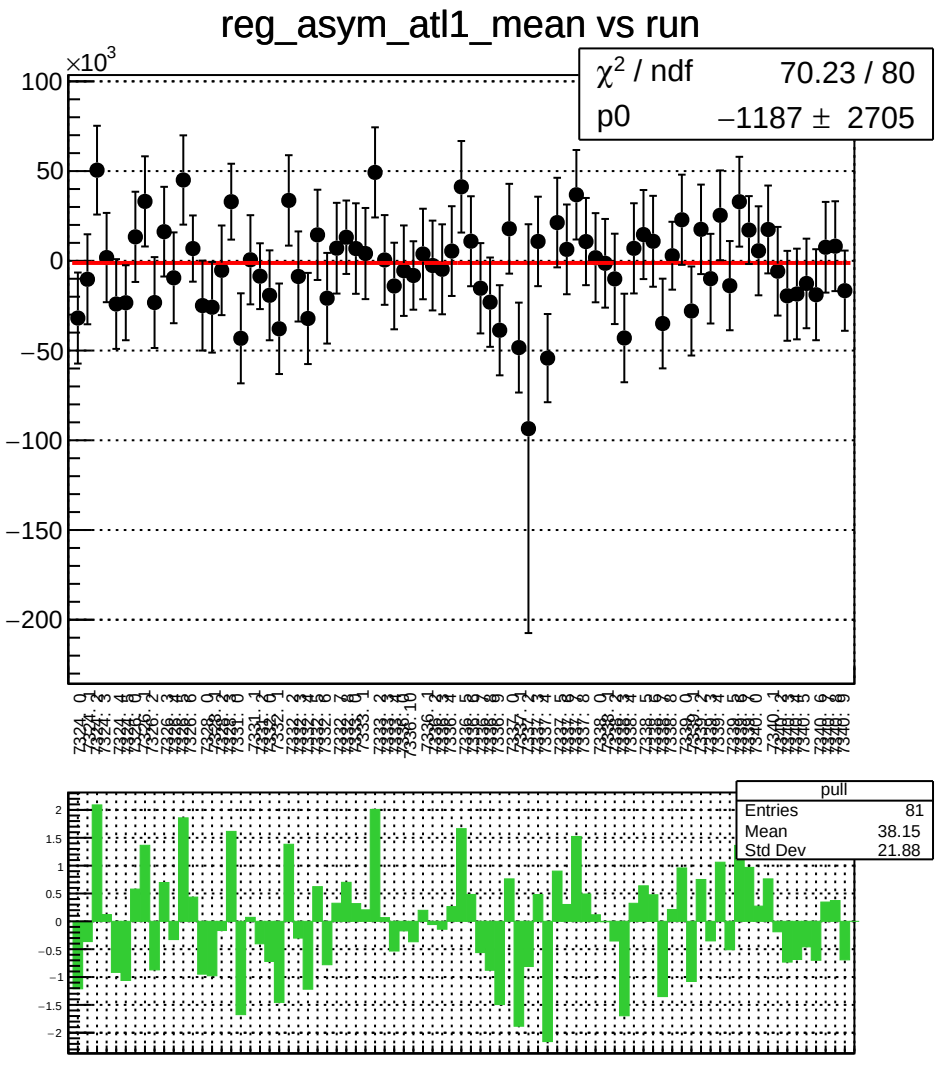

pull1D
Entries 81
Mean −0.008727
Std Dev 0.9784

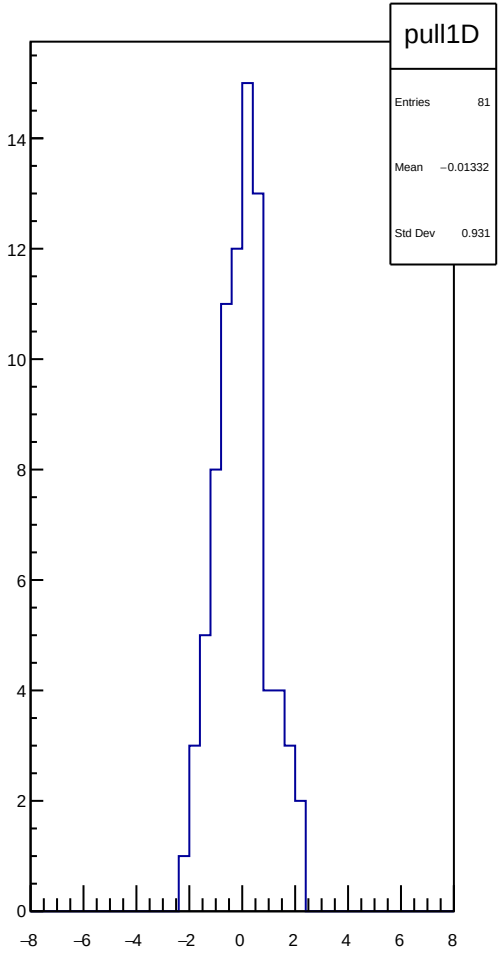

asym_us_agg_avg_rms vs run
χ² / ndf 1.738e+04 / 80
p0 1961 ± 1.579
2400
2200
2000
1800
1600

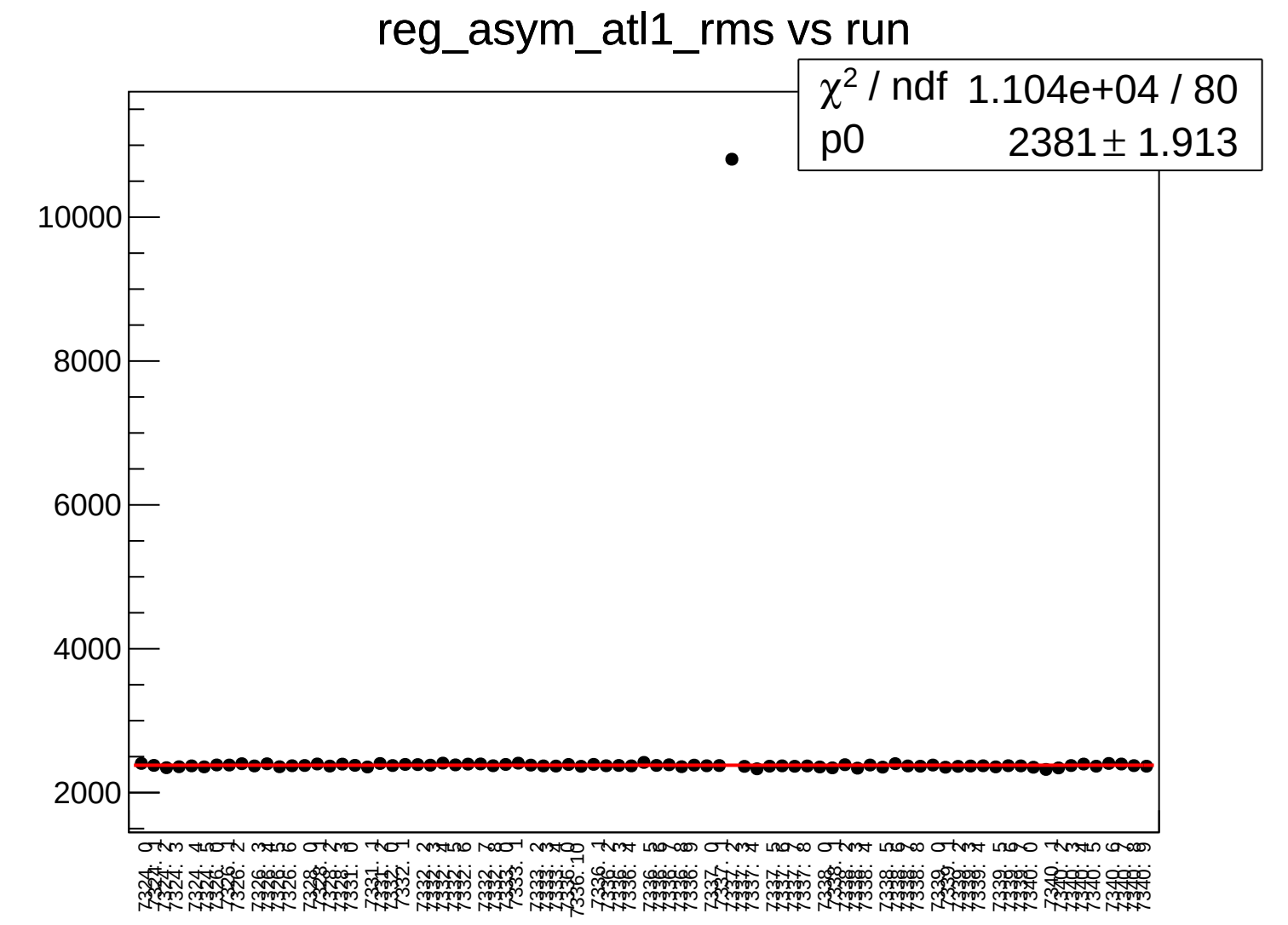

asym_us_agg_dd_mean vs run
χ² / ndf 80.28 / 80
p0 −396.6 ± 1040
pull
Entries 81
Mean 76.88
Std Dev 165.9

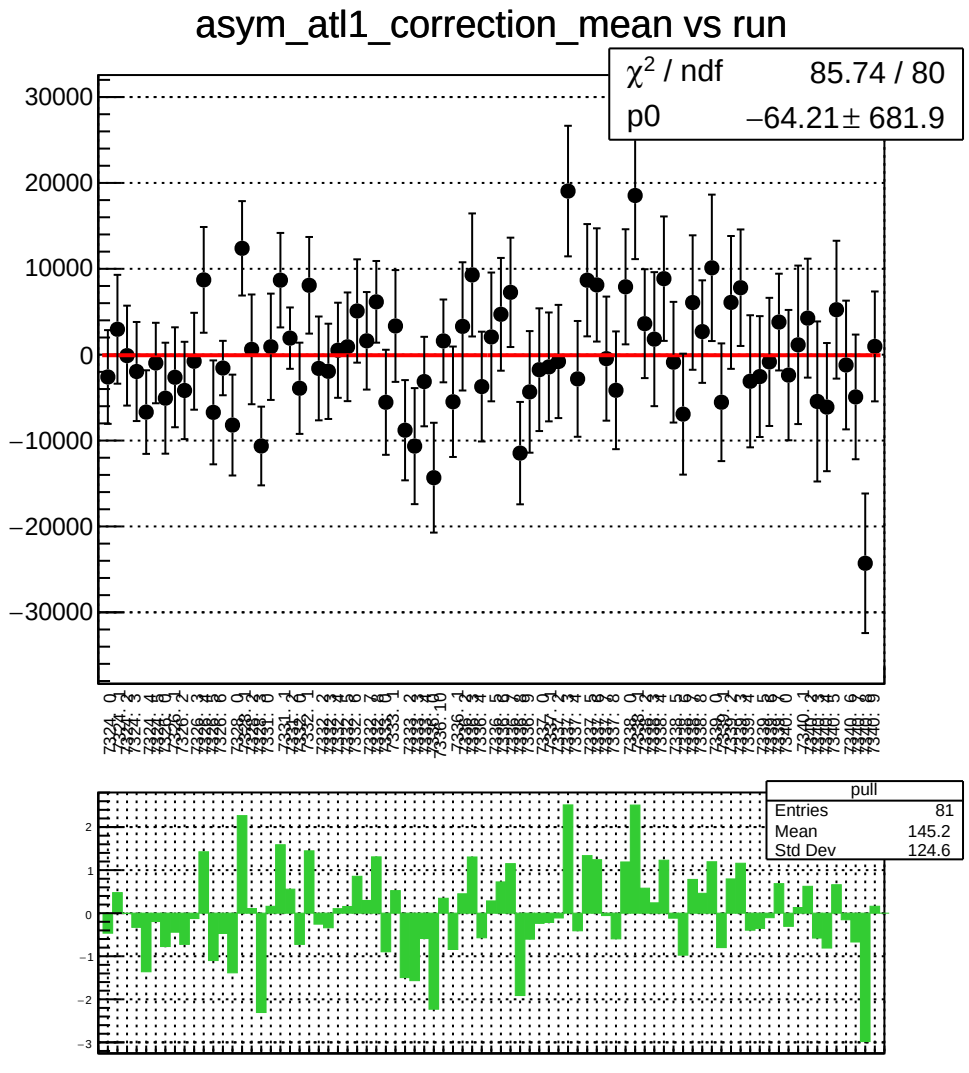

pull1D
Entries 81
Mean −0.003458
Std Dev 0.9955

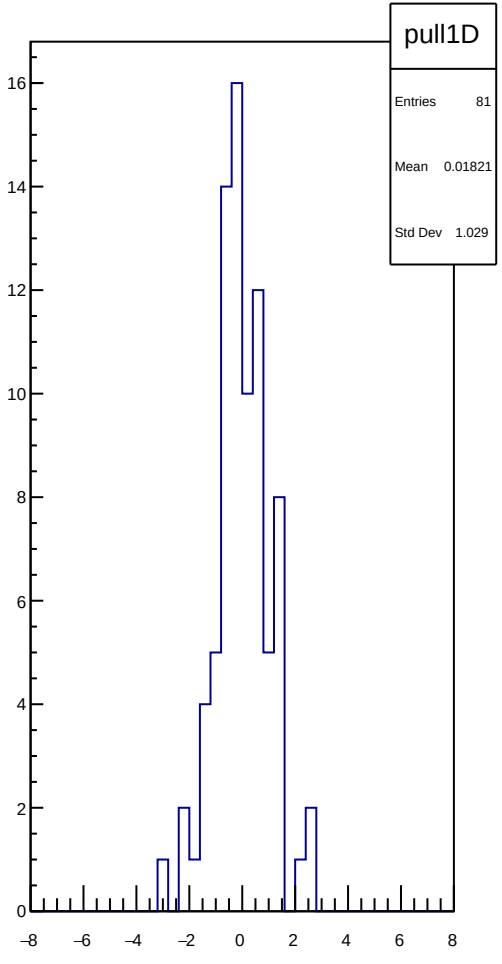

asym_us_agg_dd_rms vs run
χ² / ndf 353.2 / 80
p0 918.2 ± 0.7352
960
940
920
900
880

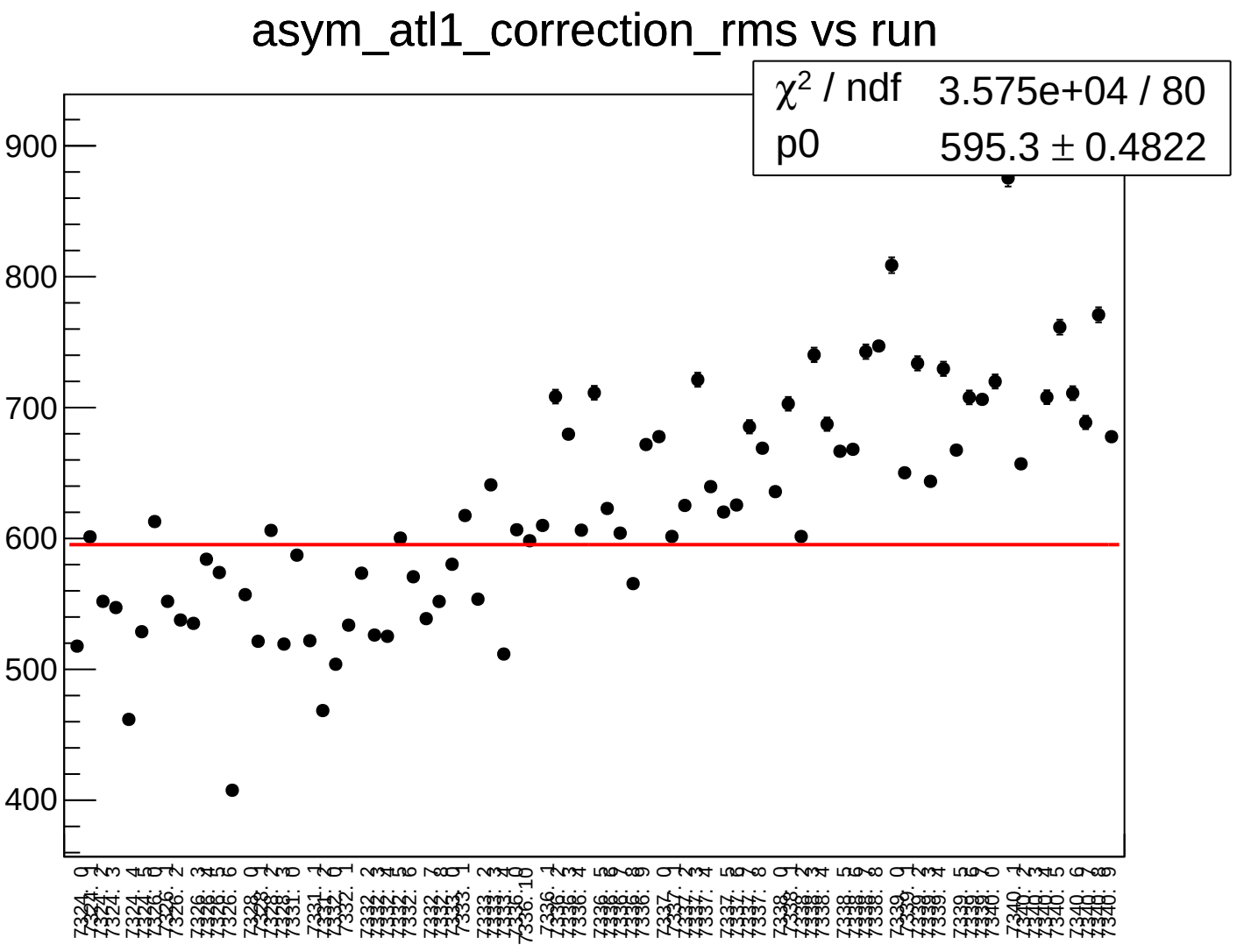

reg_asym_atl1_mean vs run
×10^3
χ² / ndf 70.23 / 80
p0 −1187 ± 2705
pull
Entries 81
Mean 38.15
Std Dev 21.88

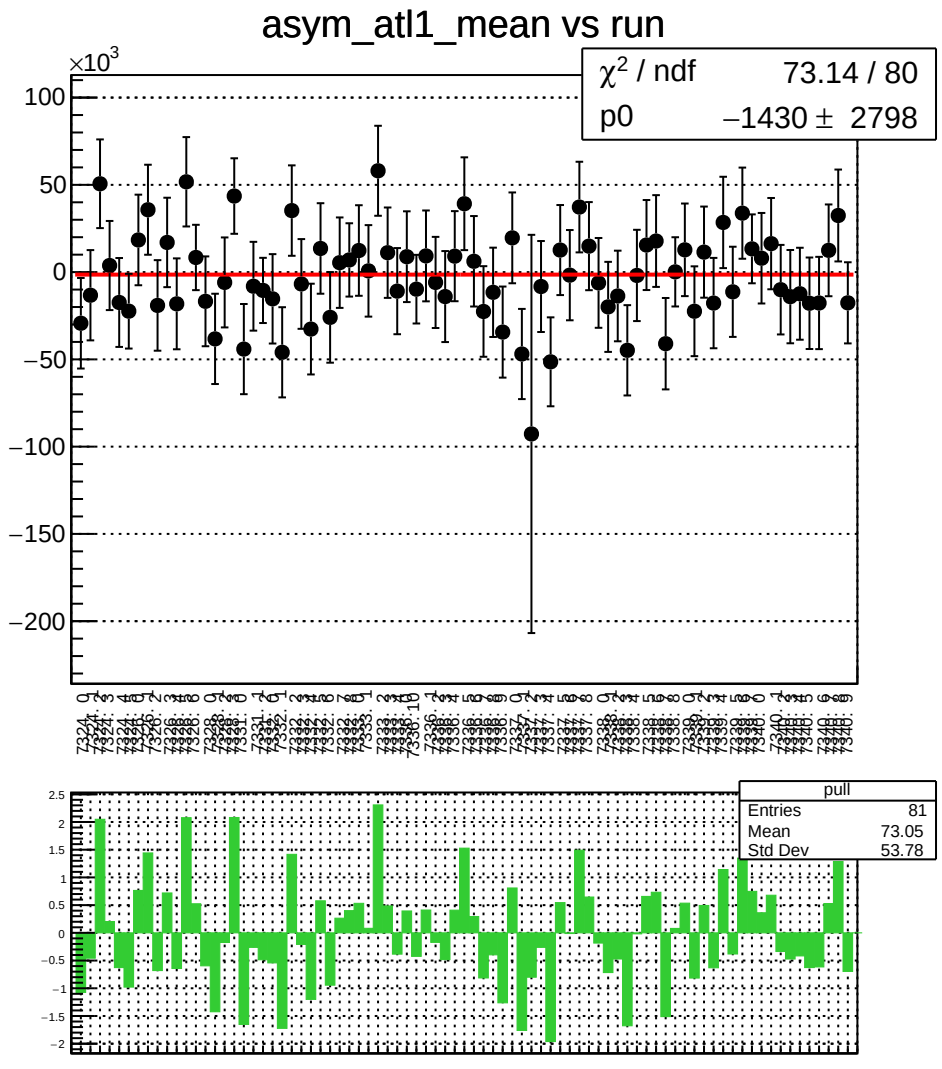

pull1D
Entries 81
Mean −0.01332
Std Dev 0.931

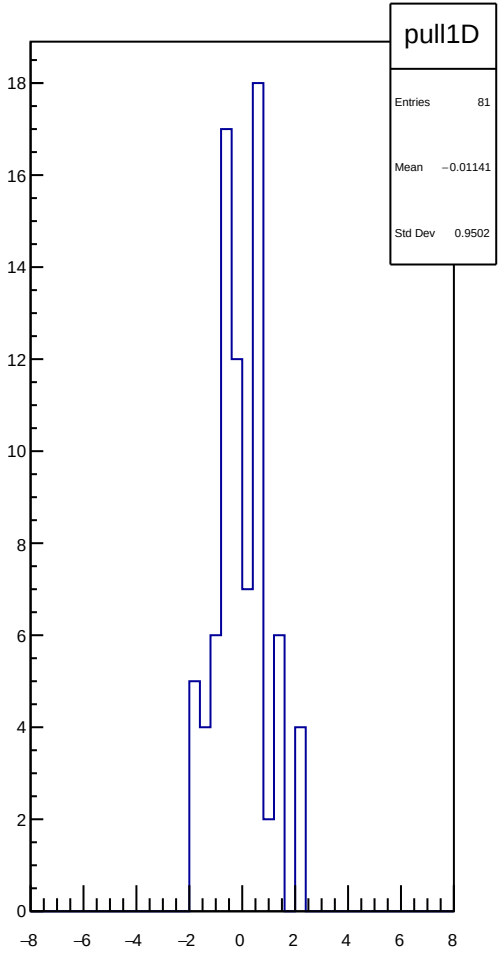

reg_asym_atl1_rms vs run
χ^2 / ndf 1.104e+04 / 80
p0 2381 ± 1.913
10000
8000
6000
4000
2000

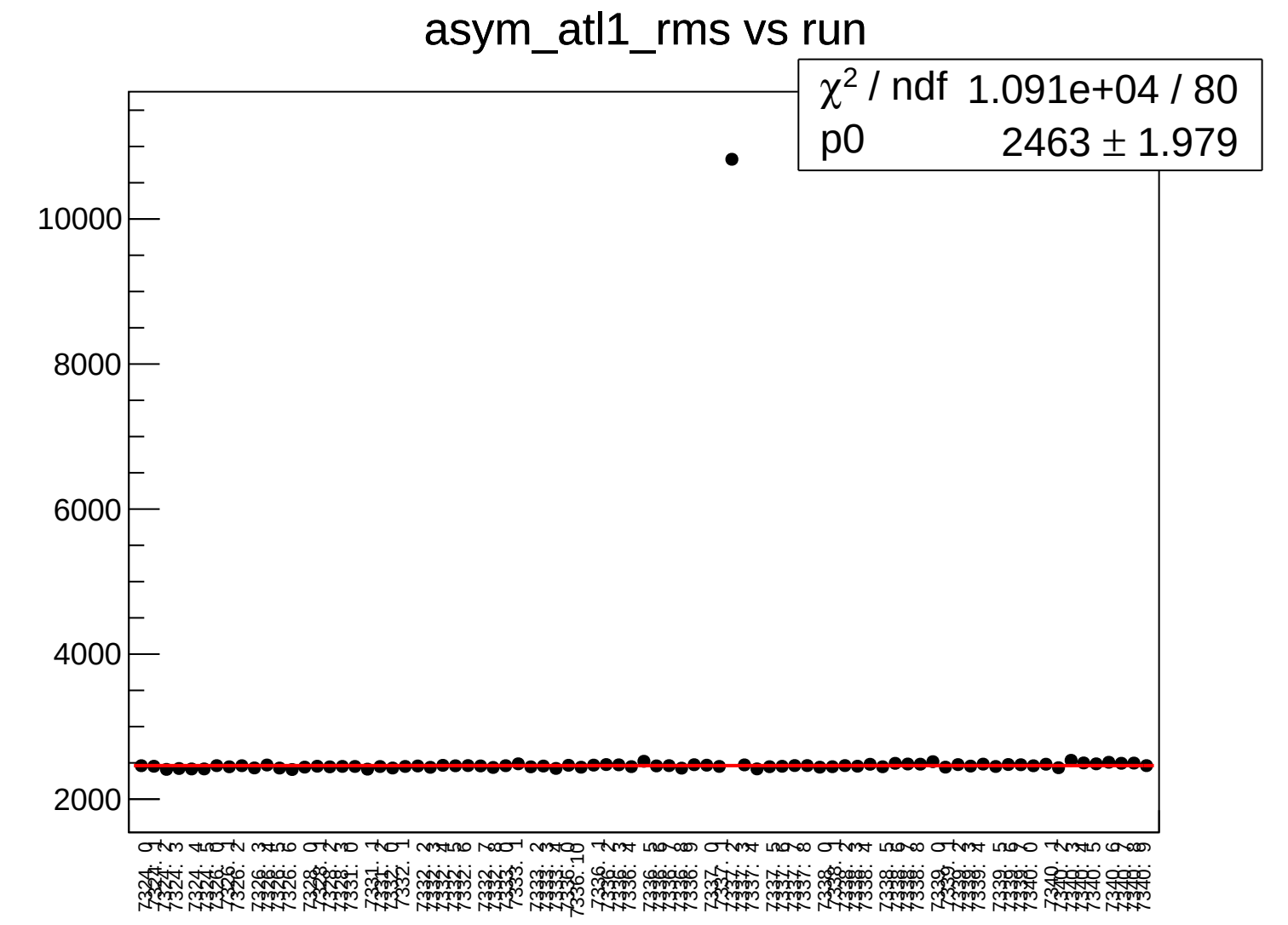

asym_atl1_correction_mean vs run
χ² / ndf 85.74 / 80
p0 −64.21 ± 681.9
pull
Entries 81
Mean 145.2
Std Dev 124.6

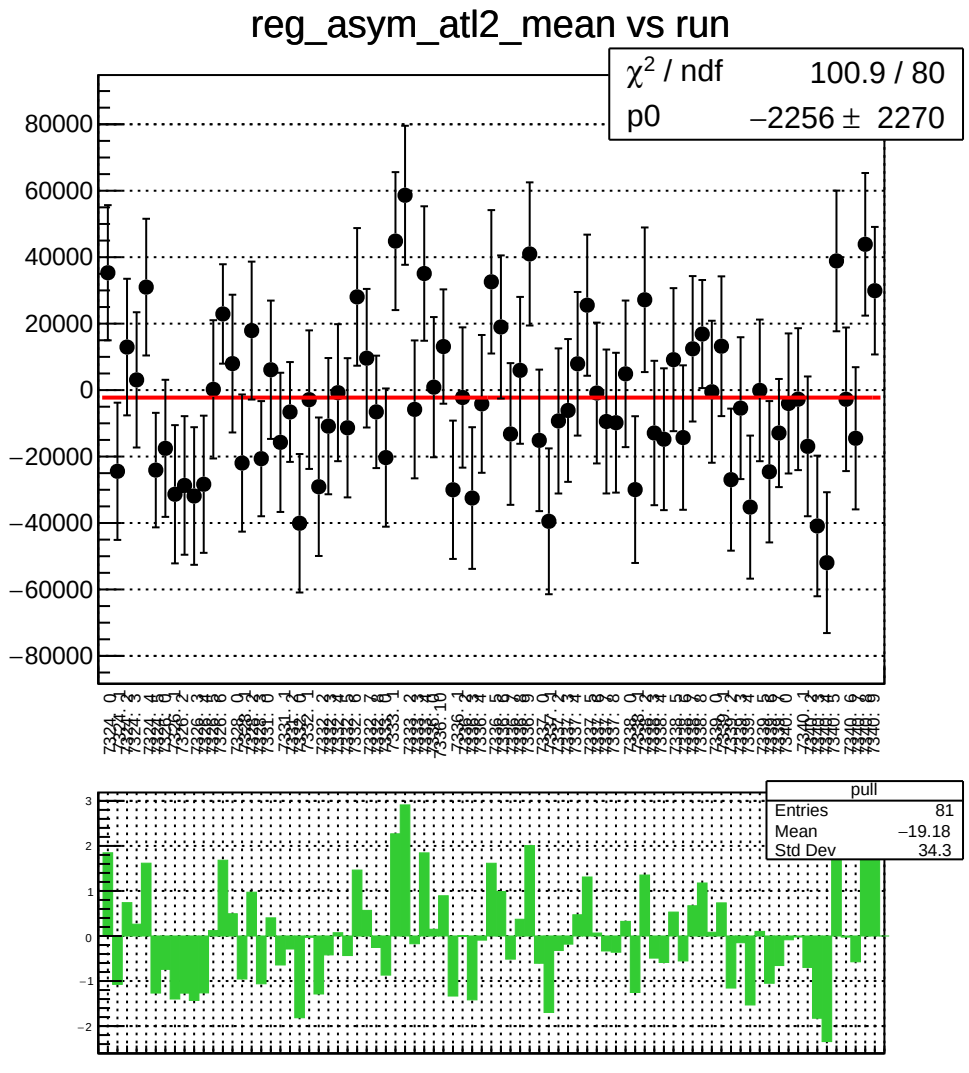

pull1D
Entries 81
Mean 0.01821
Std Dev 1.029

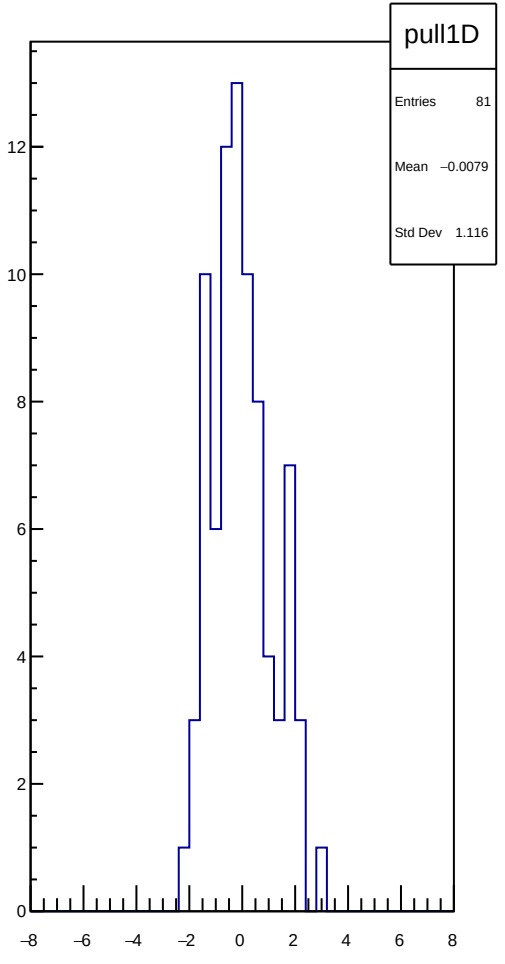

asym_atl1_correction_rms vs run
χ^2 / ndf 3.575e+04 / 80
p0 595.3 ± 0.4822
900
800
700
600
500
400

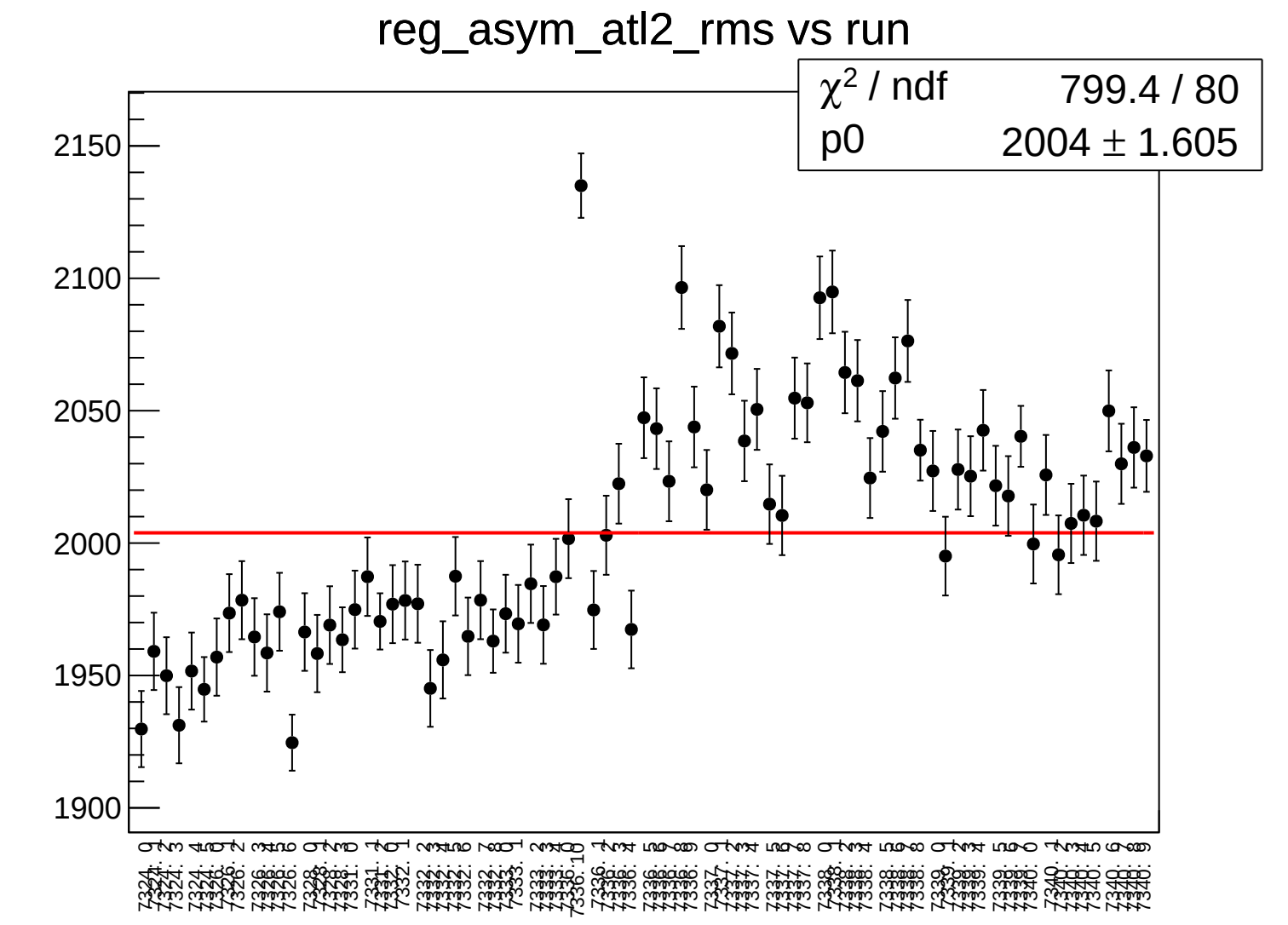

asym_atl1_mean vs run
×10^3
χ² / ndf 73.14 / 80
p0 −1430 ± 2798
pull
Entries 81
Mean 73.05
Std Dev 53.78

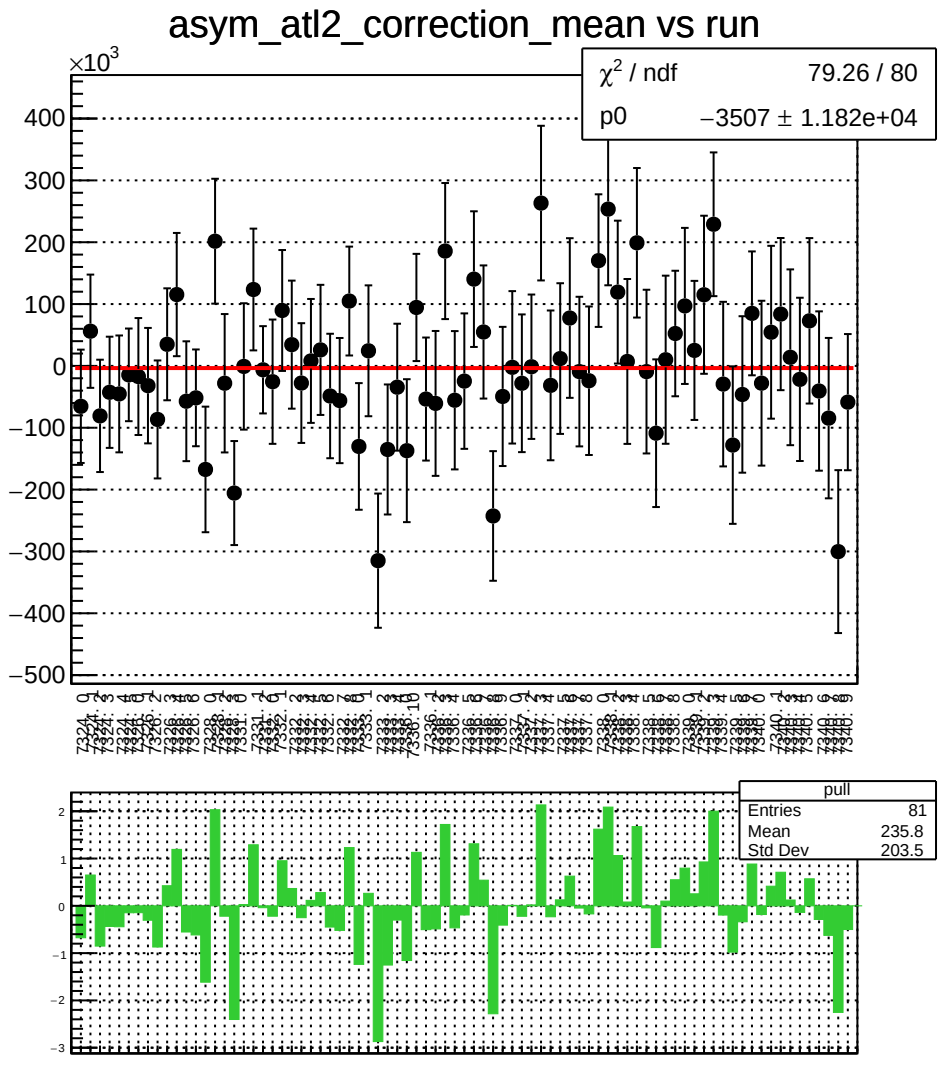

pull1D
Entries 81
Mean −0.01141
Std Dev 0.9502

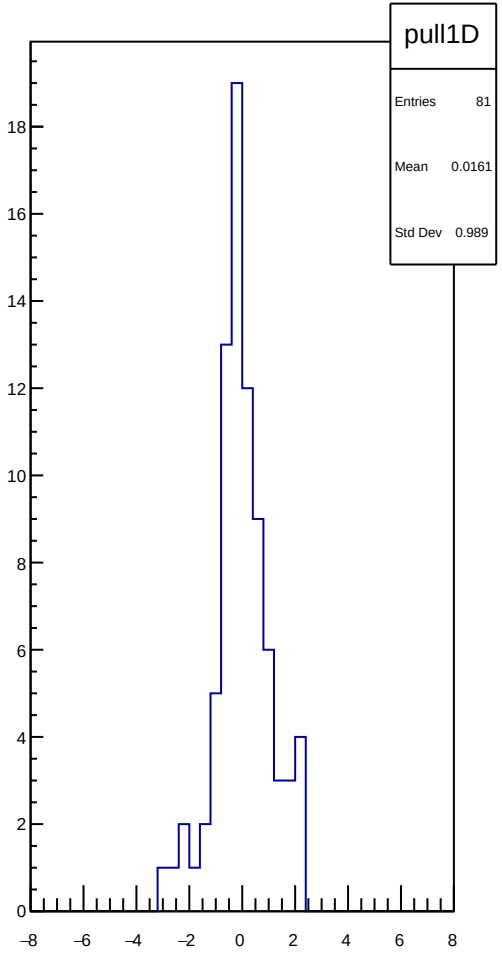

asym_atl1_rms vs run
χ² / ndf 1.091e+04 / 80
p0 2463 ± 1.979
10000
8000
6000
4000
2000

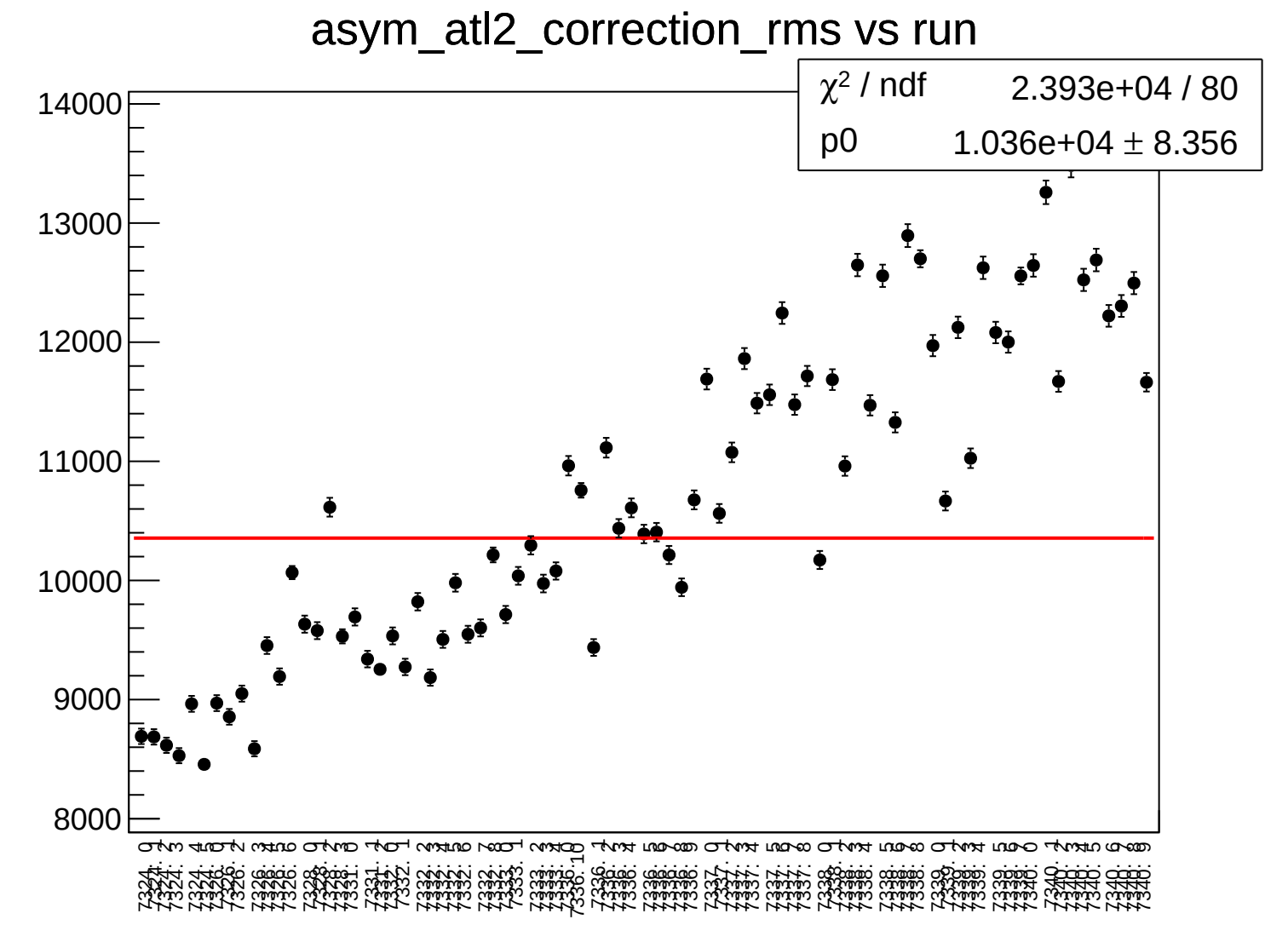

reg_asym_atl2_mean vs run
χ² / ndf 100.9 / 80
p0 −2256 ± 2270
pull
Entries 81
Mean −19.18
Std Dev 34.3

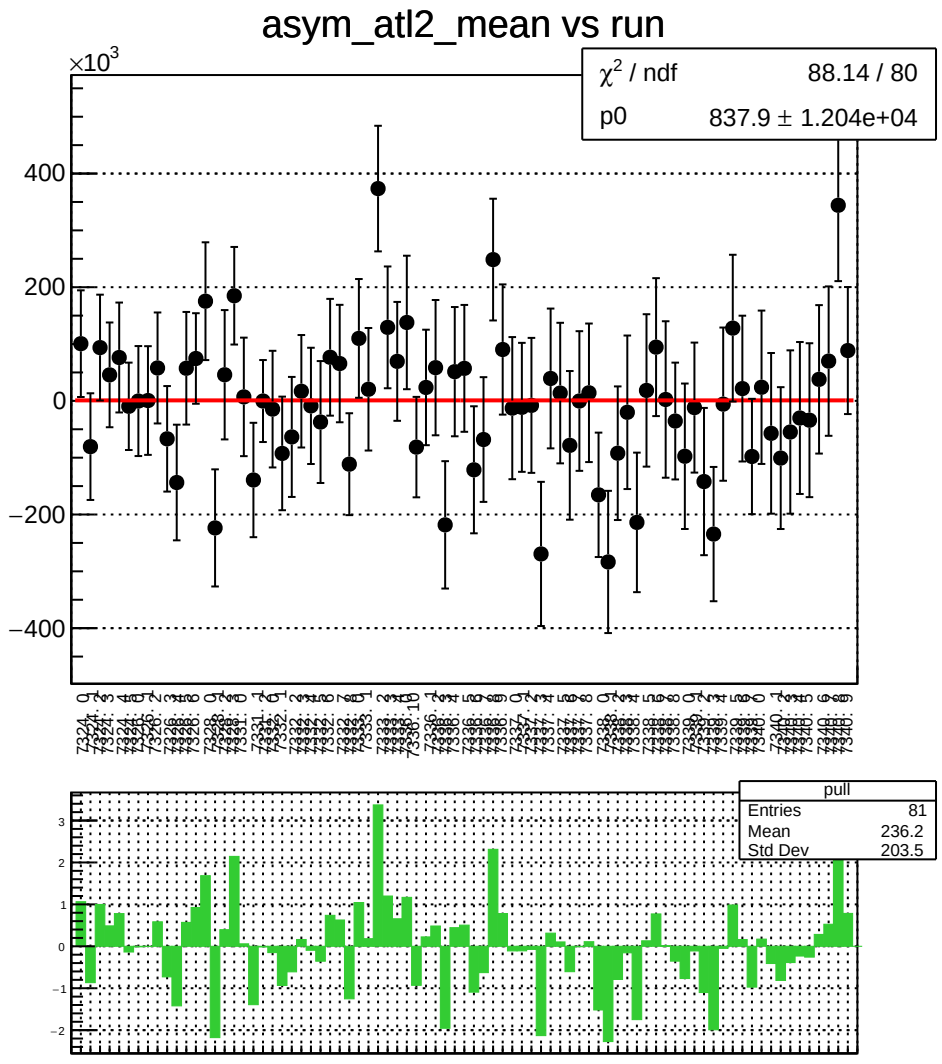

pull1D
Entries 81
Mean −0.0079
Std Dev 1.116

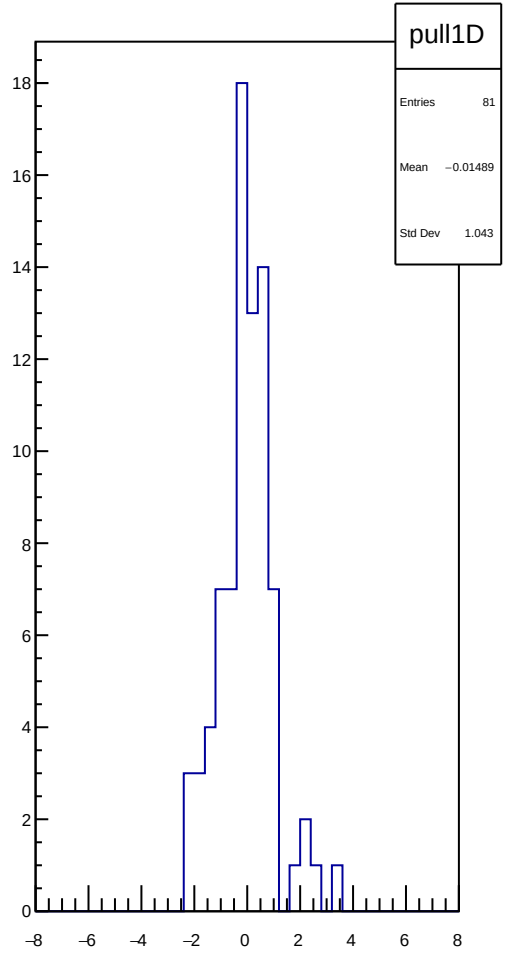

reg_asym_atl2_rms vs run
χ² / ndf 799.4 / 80
p0 2004 ± 1.605
2150
2100
2050
2000
1950
1900

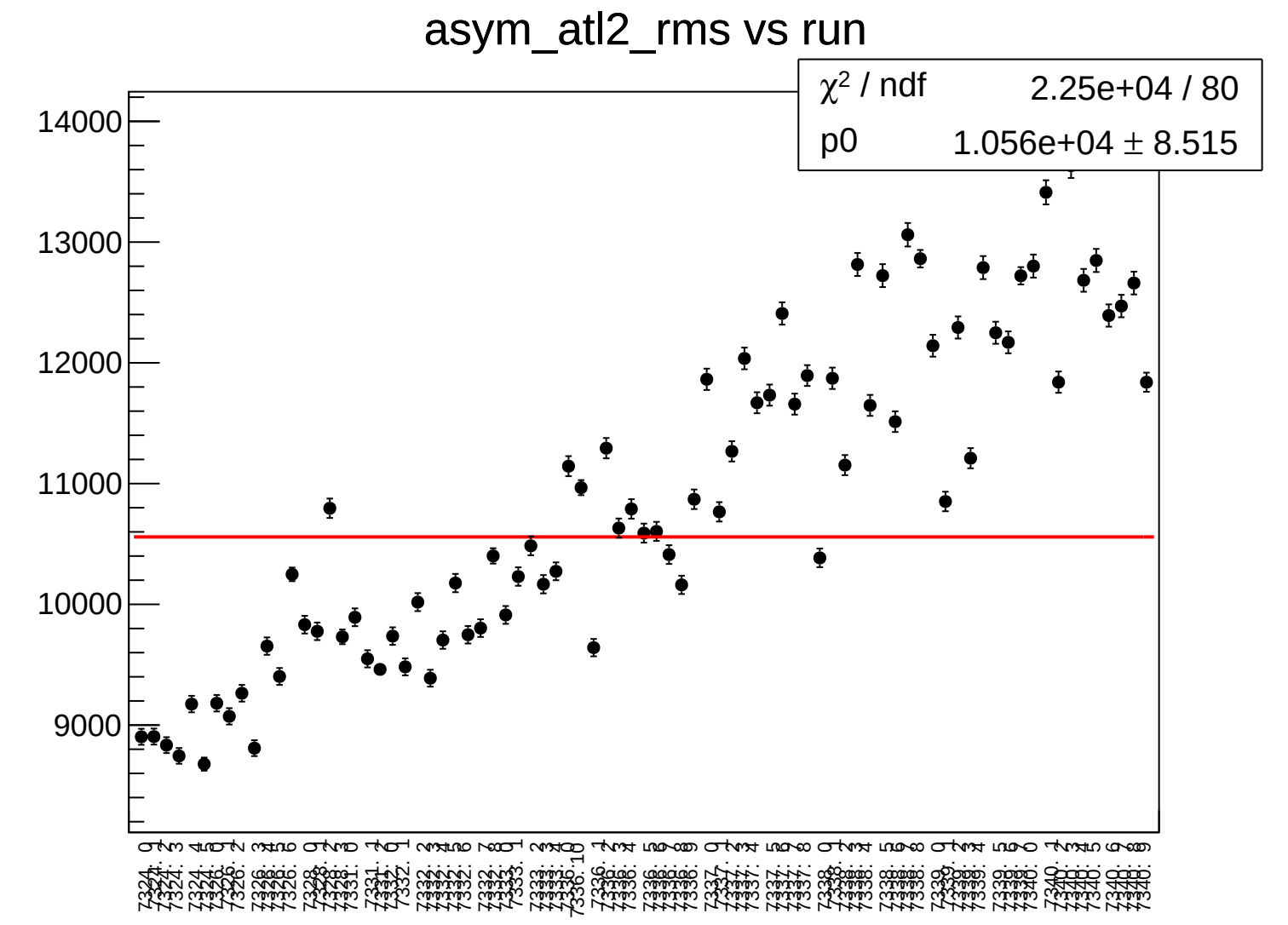

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 79.26 / 80
p0 −3507 ± 1.182e+04
pull
Entries 81
Mean 235.8
Std Dev 203.5

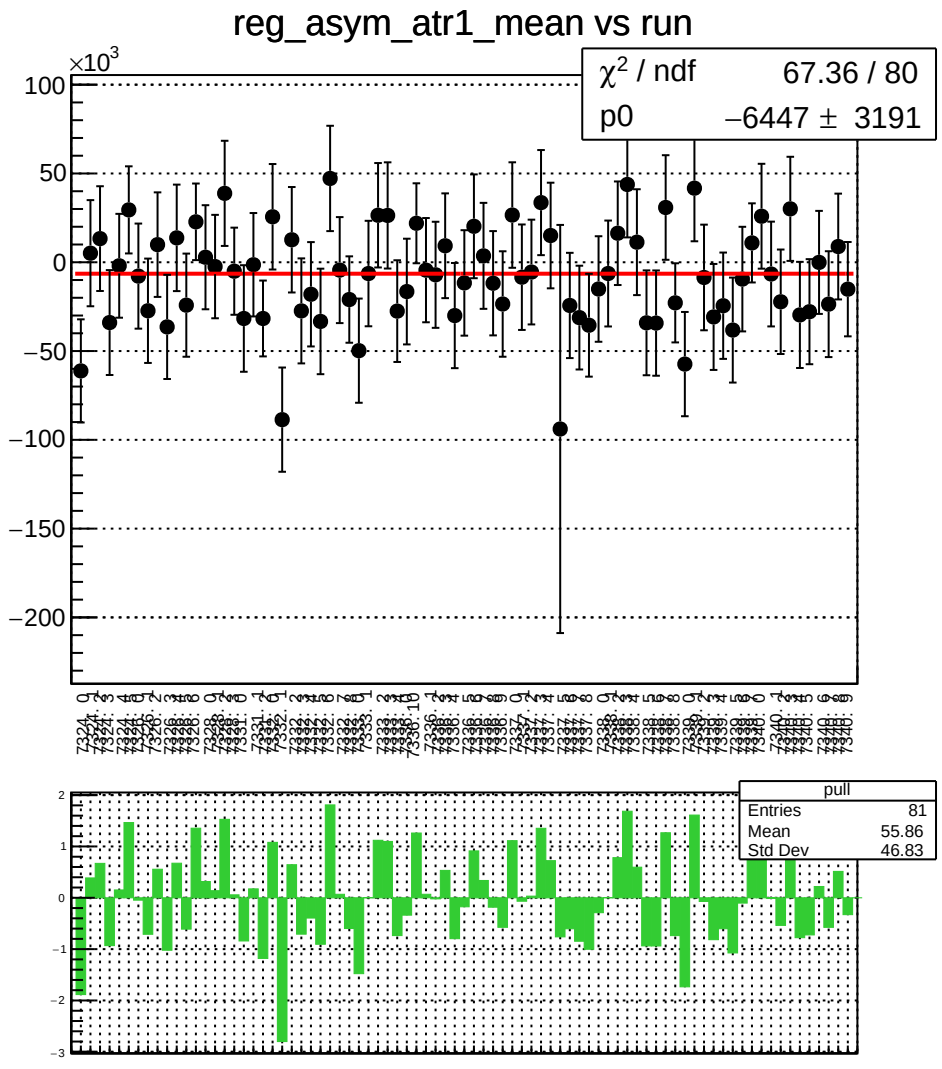

pull1D
Entries 81
Mean 0.0161
Std Dev 0.989

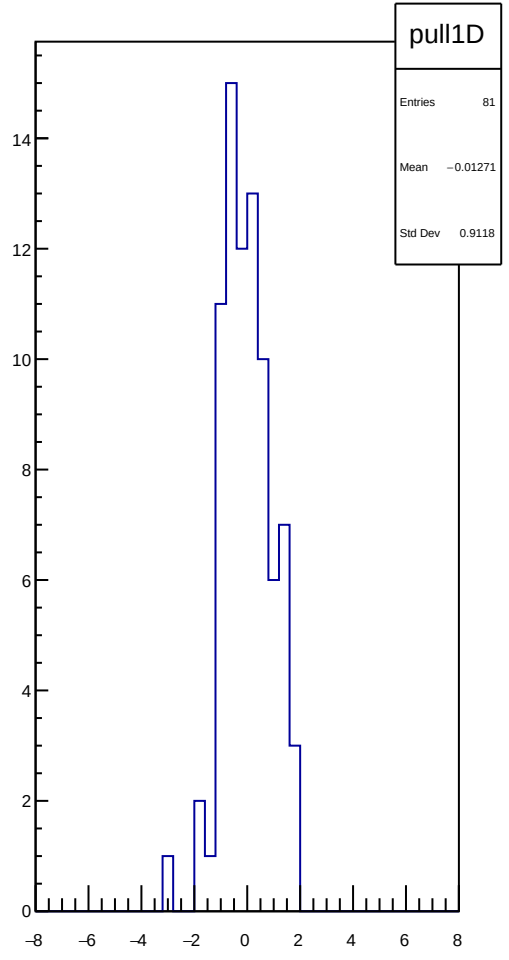

asym_atl2_correction_rms vs run
χ² / ndf 2.393e+04 / 80
p0 1.036e+04 ± 8.356
14000
13000
12000
11000
10000
9000
8000

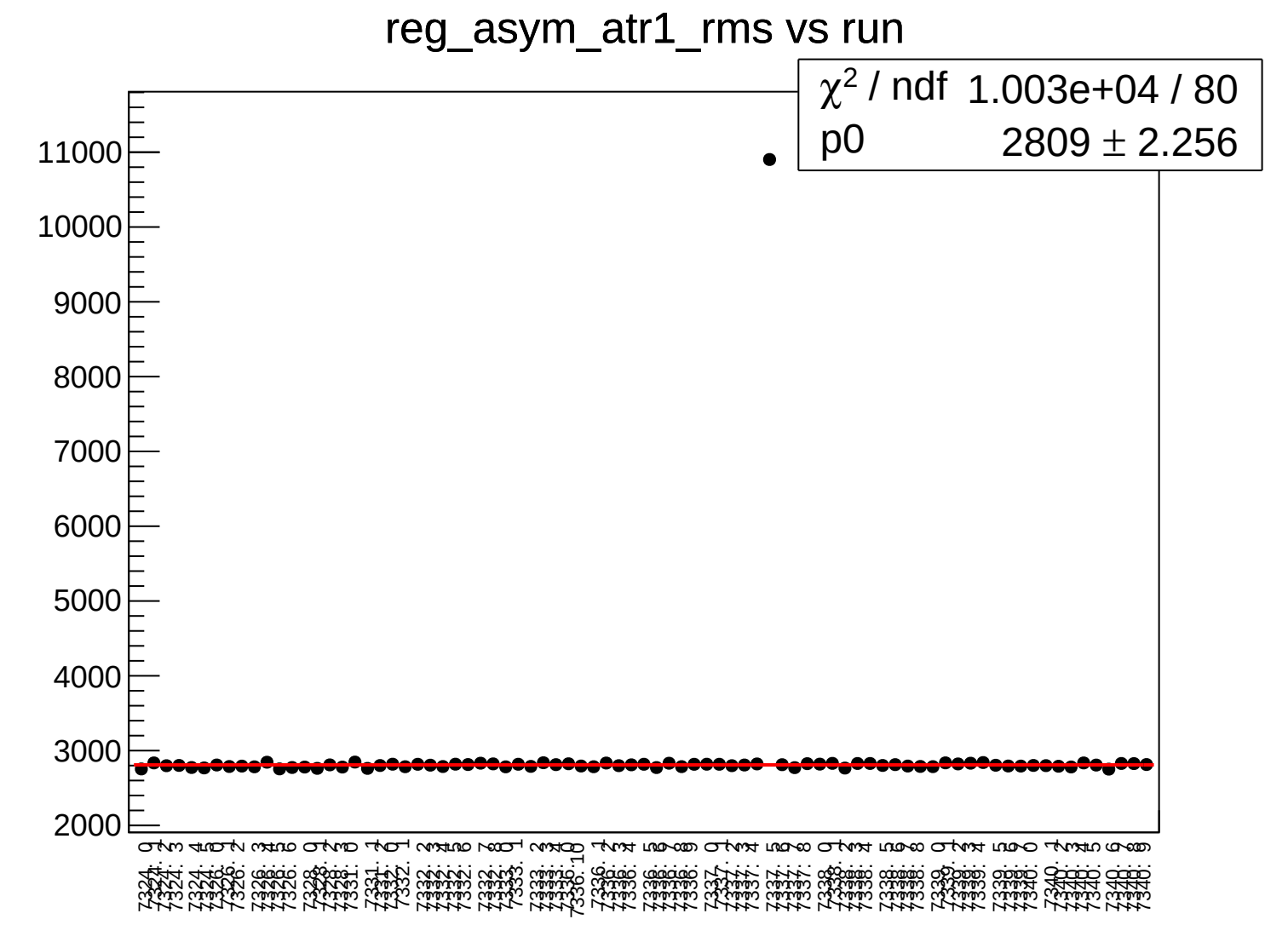

asym_atl2_mean vs run
×10^3
χ² / ndf 88.14 / 80
p0 837.9 ± 1.204e+04
400
200
0
−200
−400
pull
Entries 81
Mean 236.2
Std Dev 203.5
3
2
1
0
−1
−2

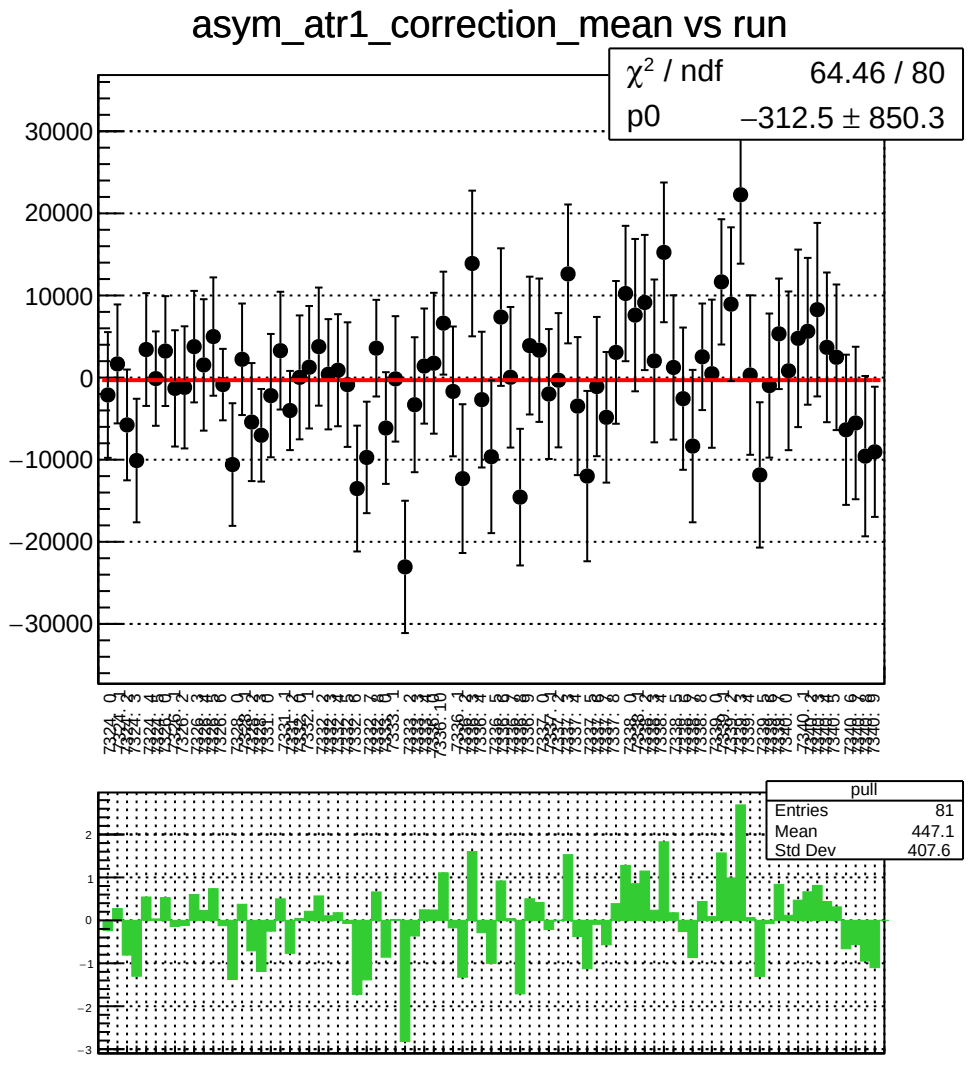

pull1D
Entries 81
Mean −0.01489
Std Dev 1.043
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

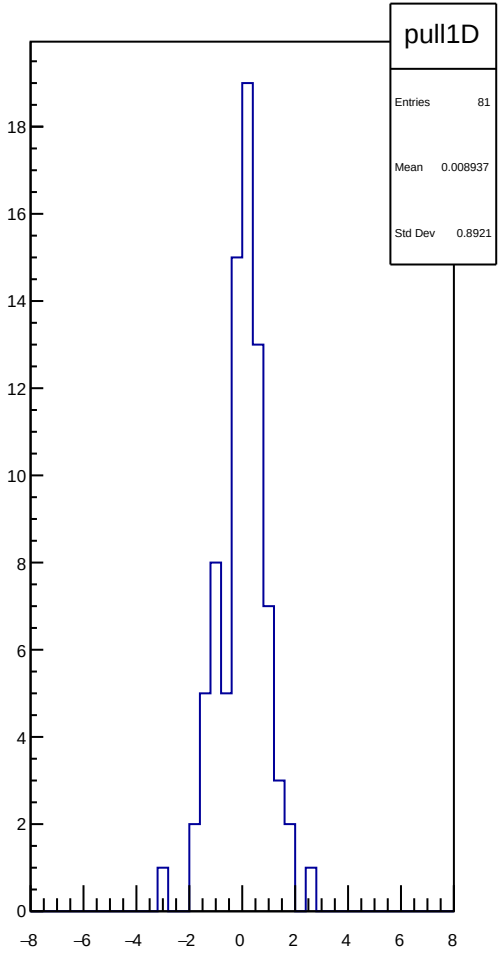

asym_atl2_rms vs run
χ² / ndf 2.25e+04 / 80
p0 1.056e+04 ± 8.515
14000
13000
12000
11000
10000
9000

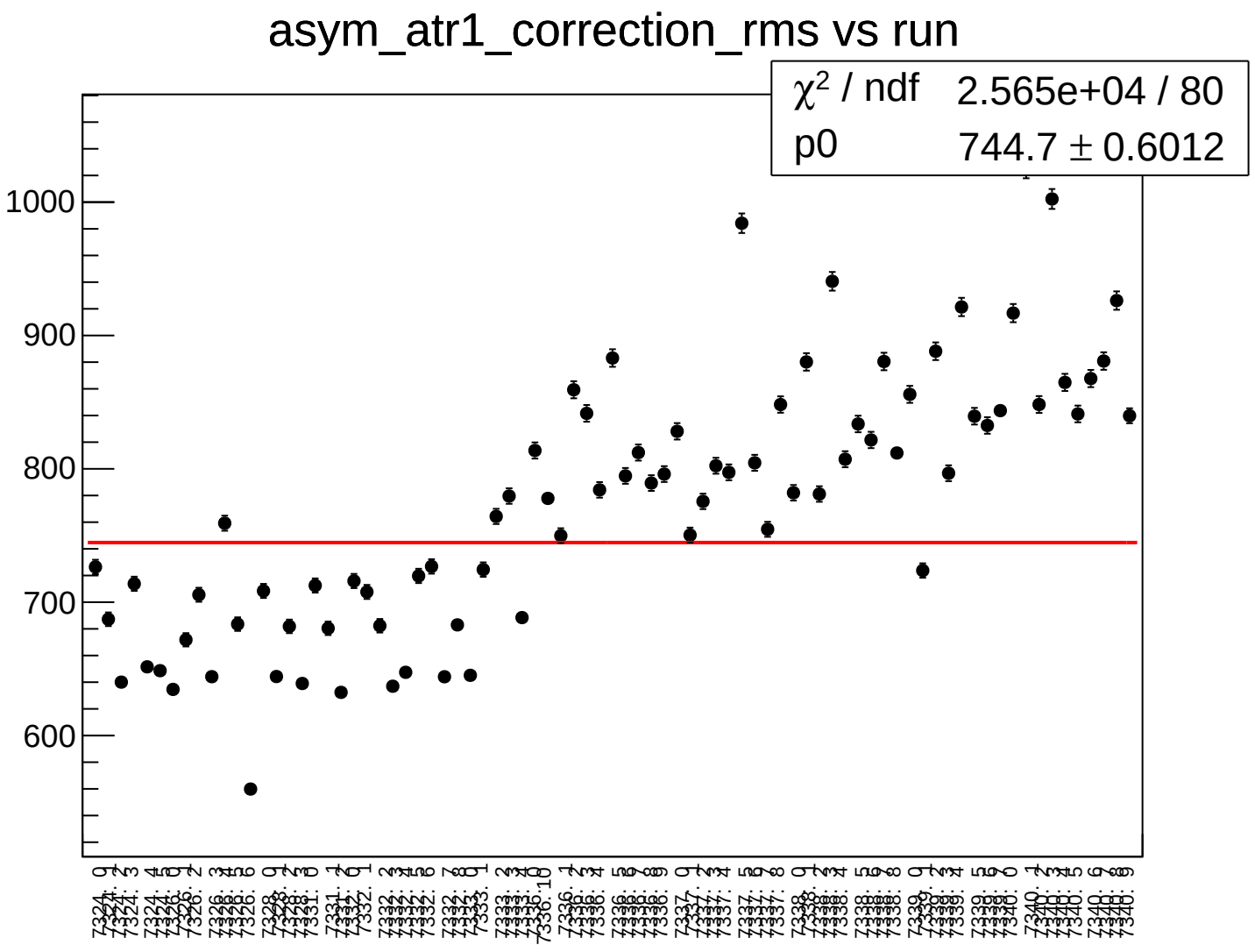

reg_asym_atr1_mean vs run
×10^3
χ² / ndf 67.36 / 80
p0 −6447 ± 3191
pull
Entries 81
Mean 55.86
Std Dev 46.83

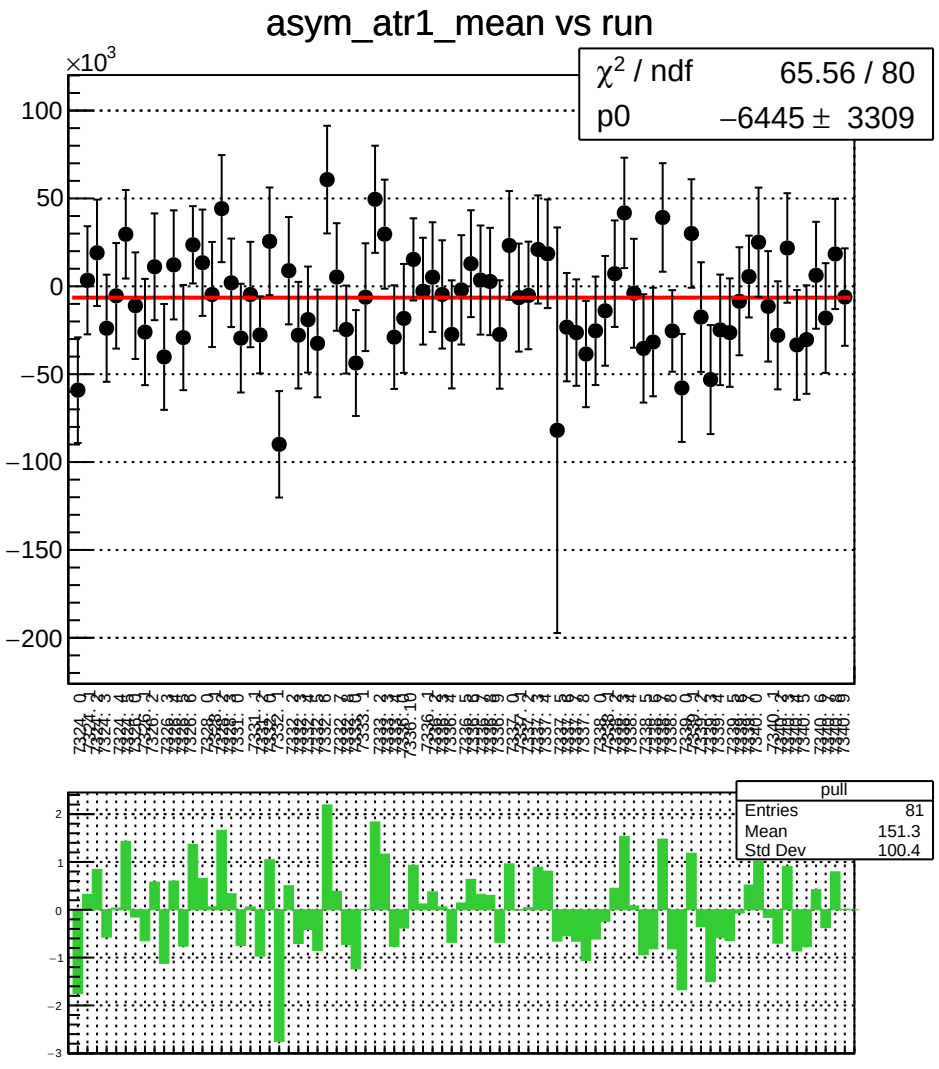

pull1D
Entries 81
Mean −0.01271
Std Dev 0.9118

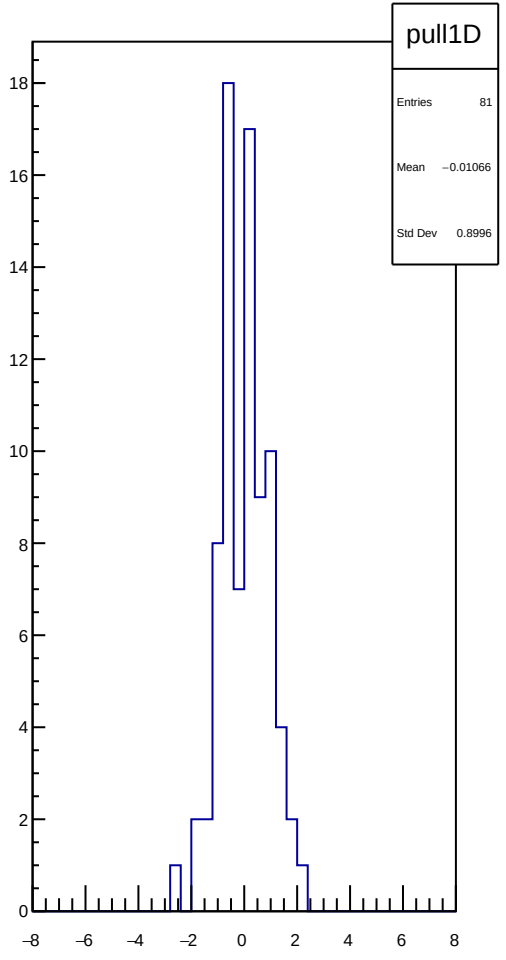

reg_asym_atr1_rms vs run
χ^2 / ndf 1.003e+04 / 80
p0 2809 ± 2.256
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

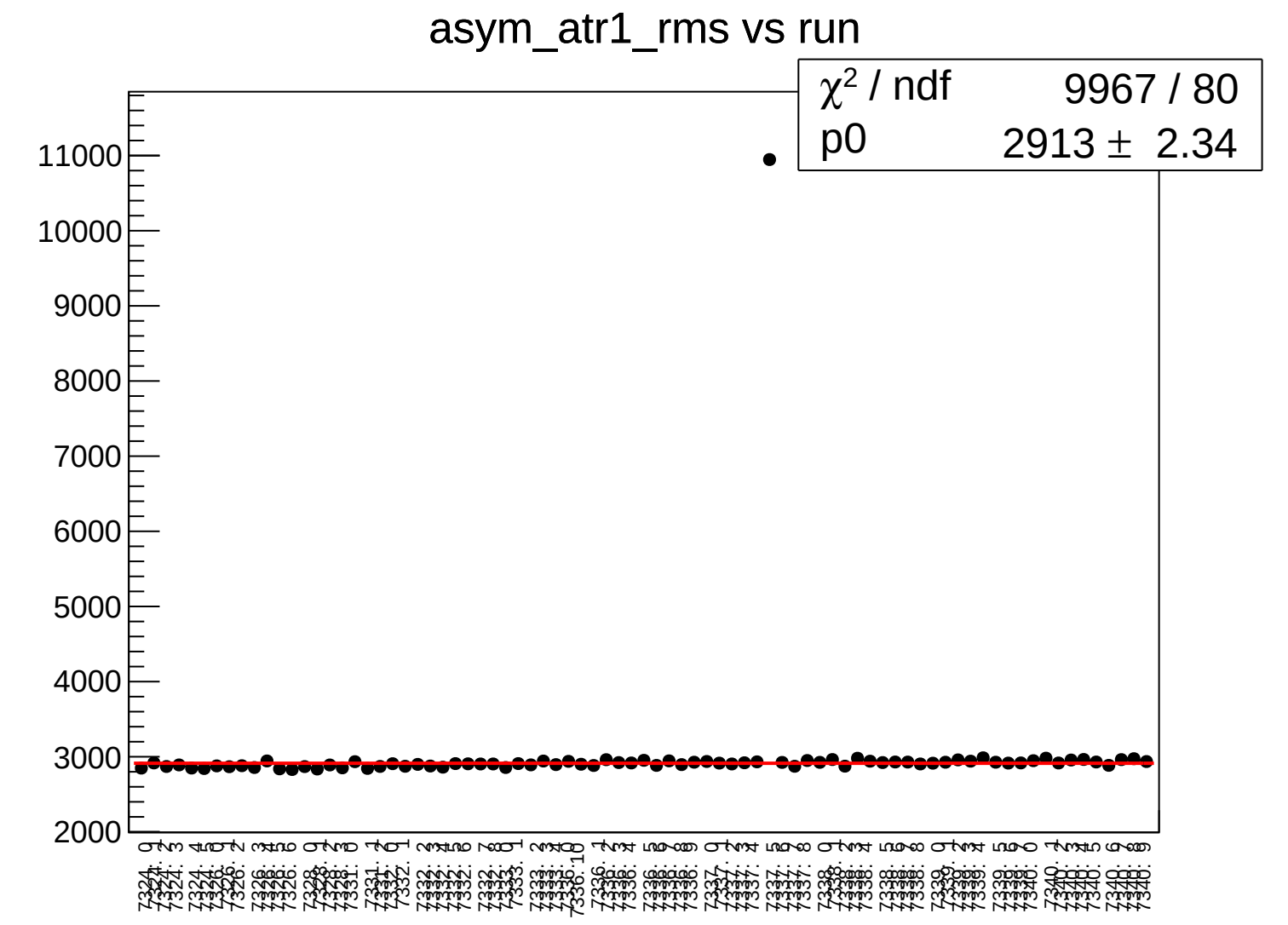

asym_atr1_correction_mean vs run
χ² / ndf 64.46 / 80
p0 −312.5 ± 850.3
pull
Entries 81
Mean 447.1
Std Dev 407.6

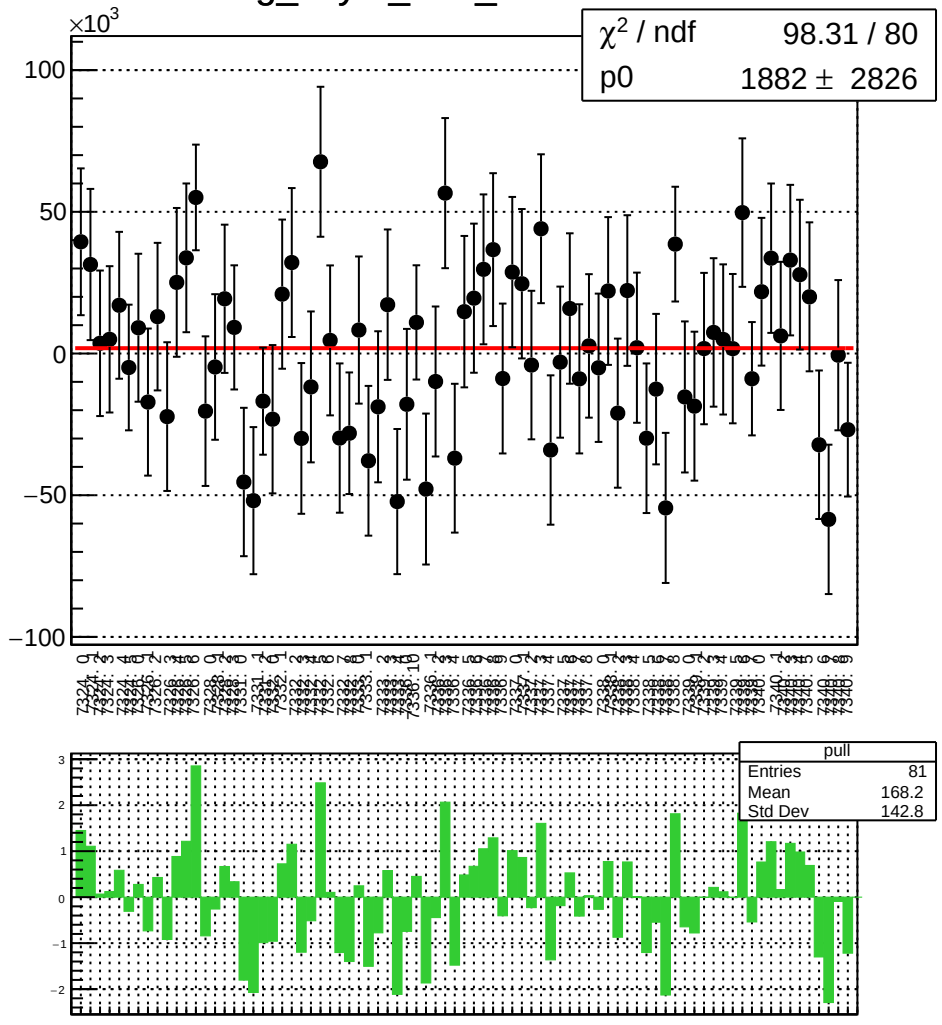

pull1D
Entries 81
Mean 0.008937
Std Dev 0.8921

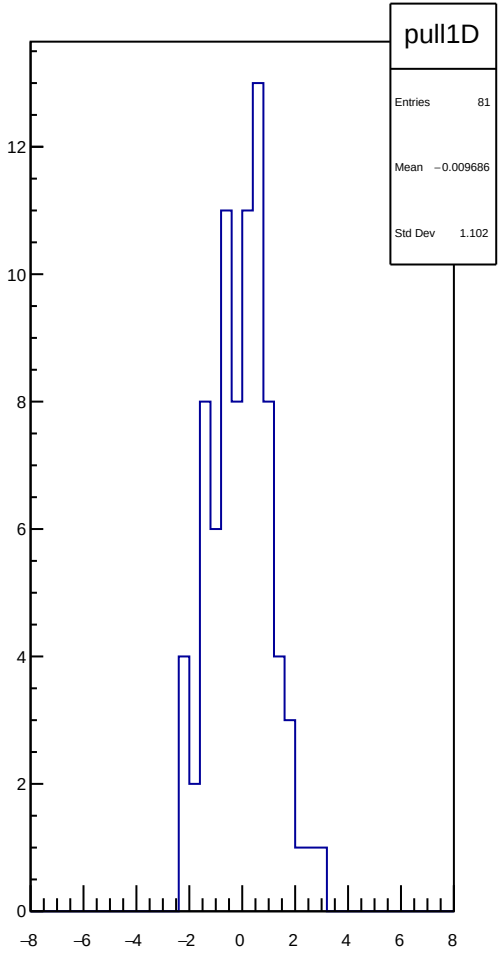

asym_atr1_correction_rms vs run
χ² / ndf 2.565e+04 / 80
p0 744.7 ± 0.6012
1000
900
800
700
600

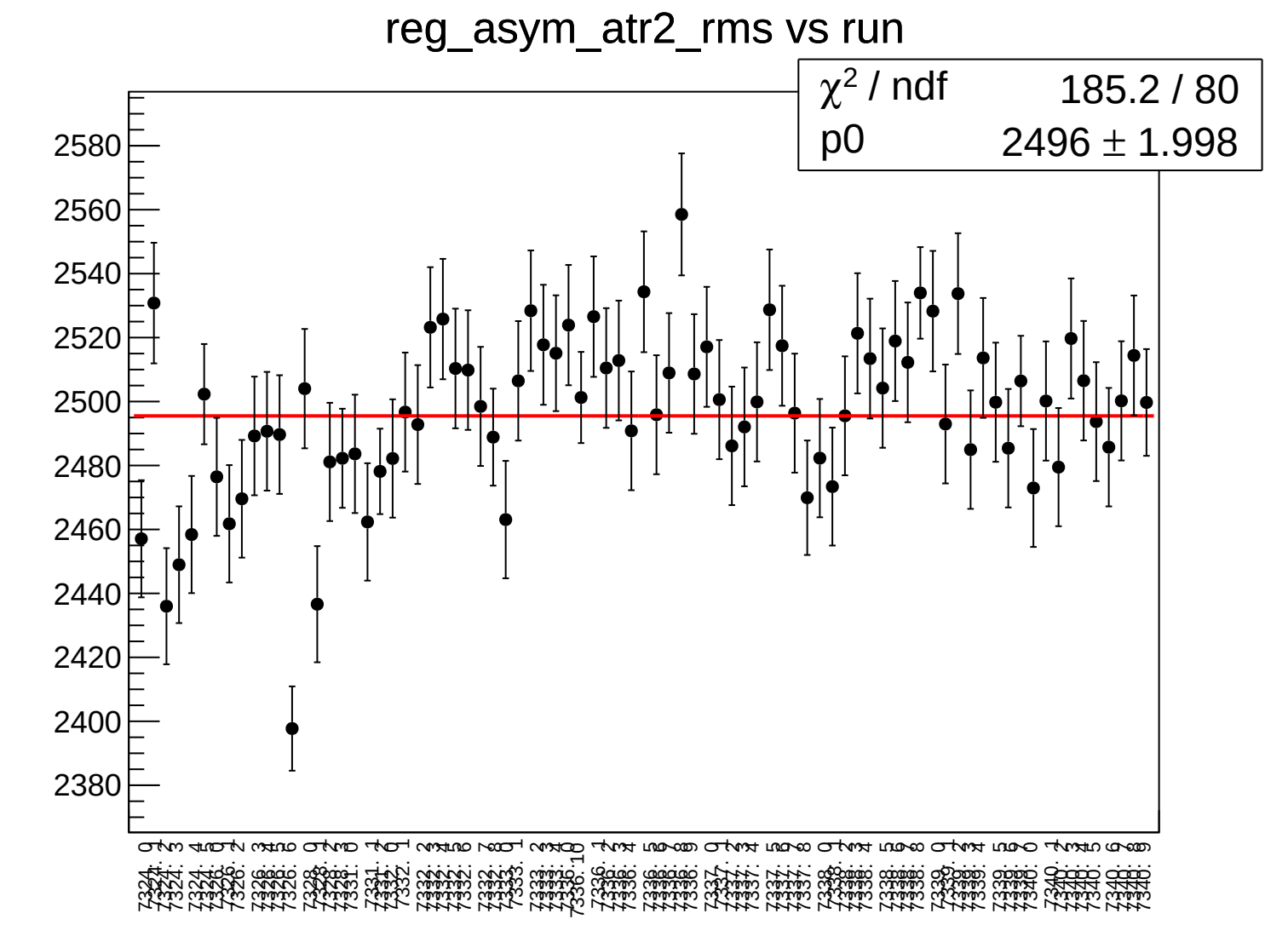

asym_atr1_mean vs run
×10^3
χ² / ndf 65.56 / 80
p0 −6445 ± 3309
pull
Entries 81
Mean 151.3
Std Dev 100.4

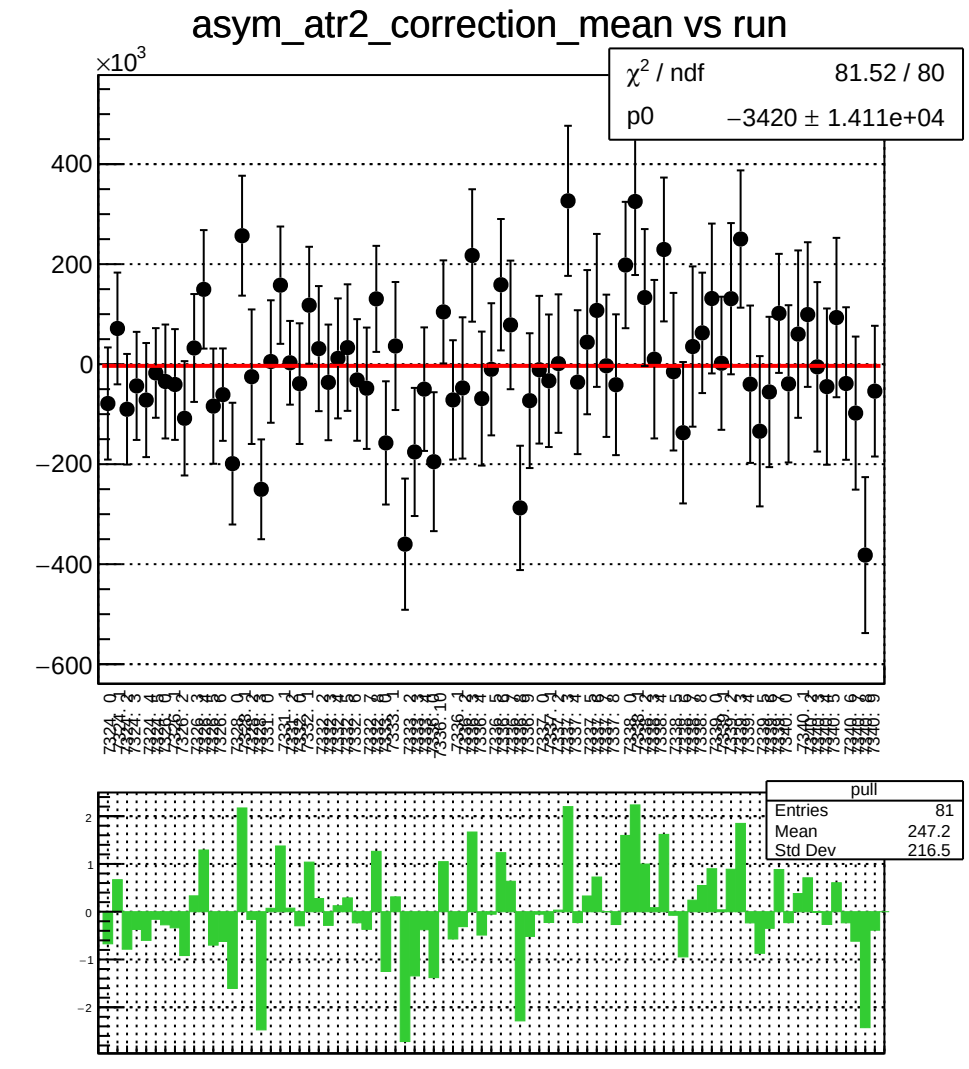

pull1D
Entries 81
Mean −0.01066
Std Dev 0.8996

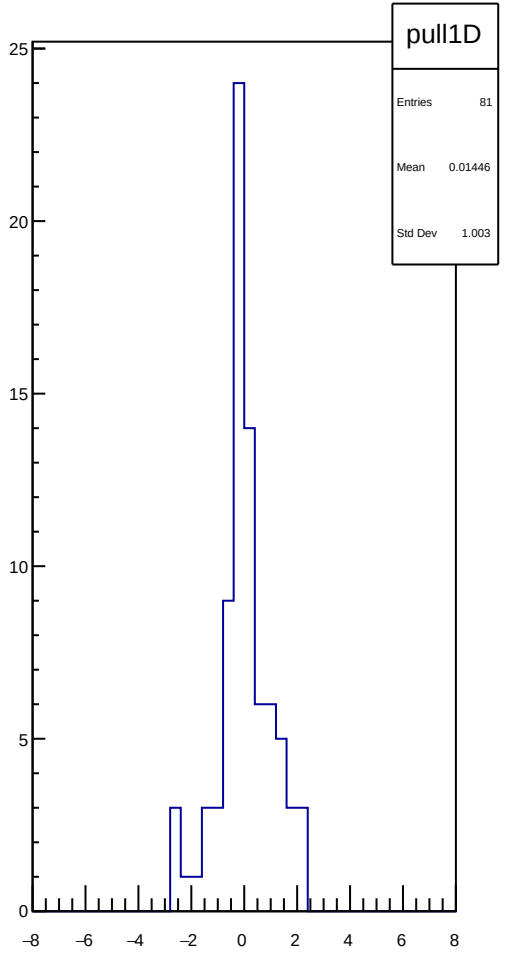

asym_atr1_rms vs run
χ^2 / ndf 9967 / 80
p0 2913 ± 2.34
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

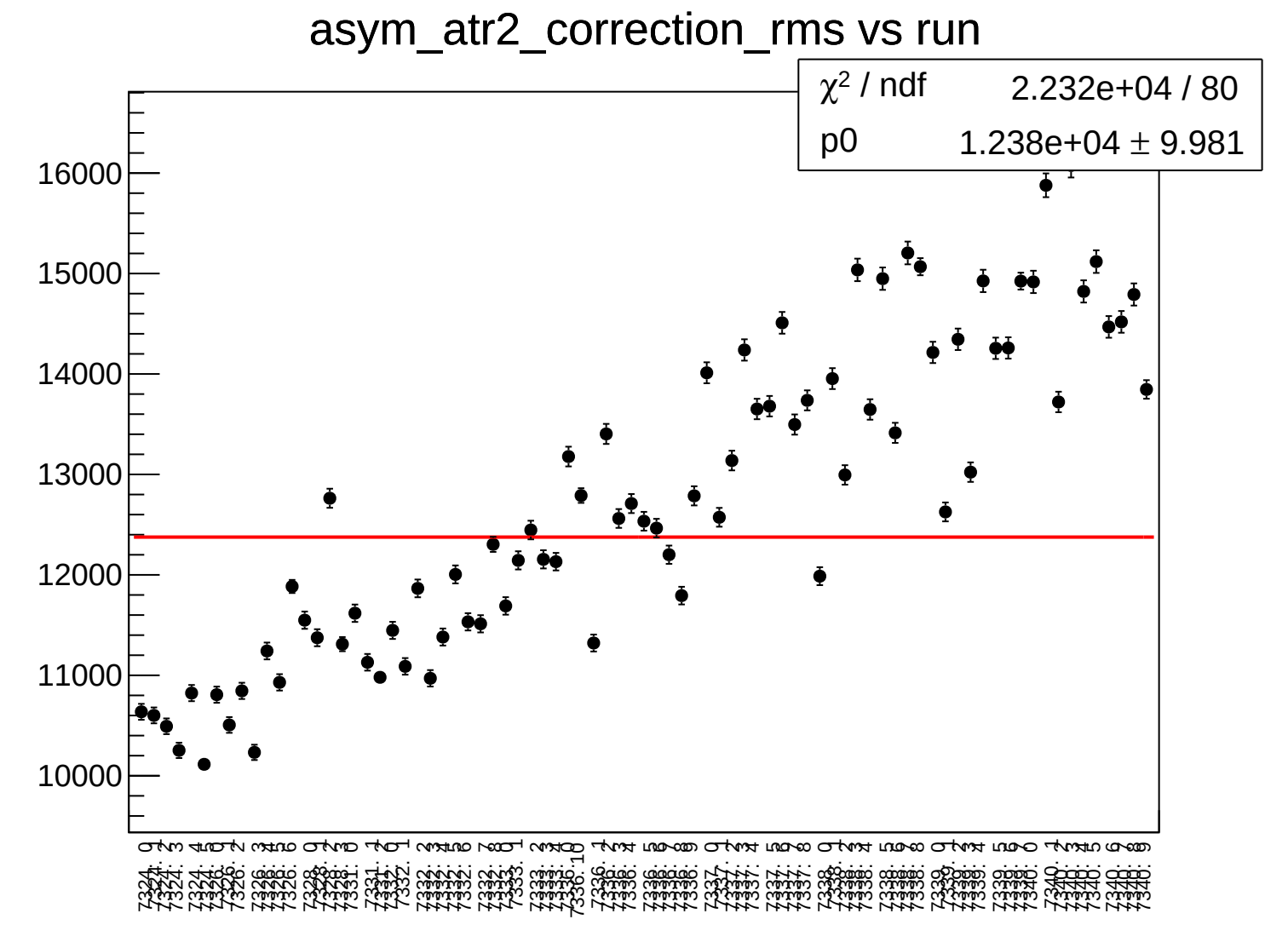

reg_asym_atr2_mean vs run
×10^3
χ^2 / ndf 98.31 / 80
p0 1882 ± 2826
100
50
0
−50
−100
pull
Entries 81
Mean 168.2
Std Dev 142.8
3
2
1
0
−1
−2

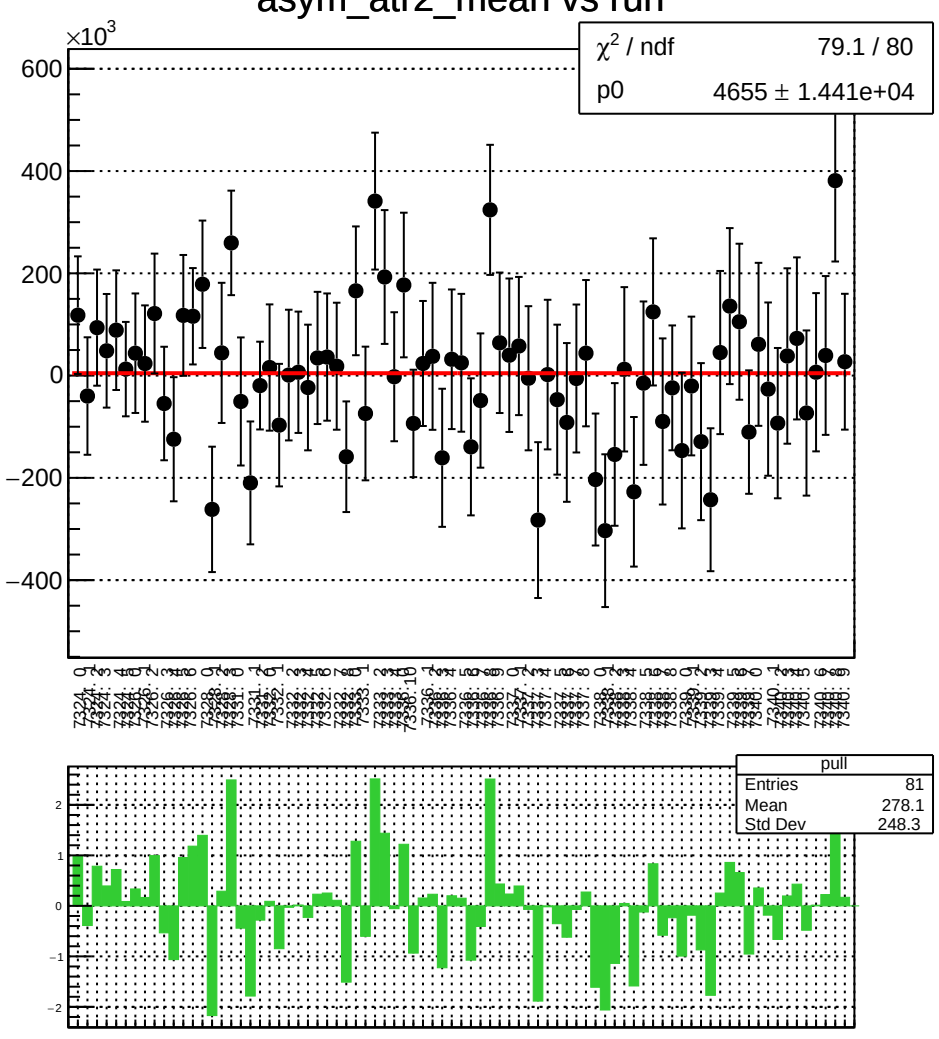

pull1D
Entries 81
Mean −0.009686
Std Dev 1.102
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

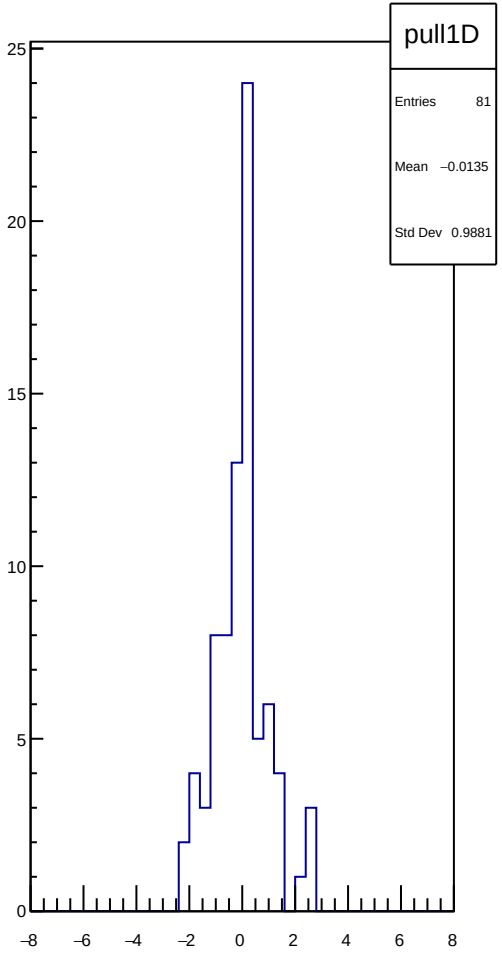

reg_asym_atr2_rms vs run
χ^2 / ndf 185.2 / 80
p0 2496 ± 1.998
2580
2560
2540
2520
2500
2480
2460
2440
2420
2400
2380

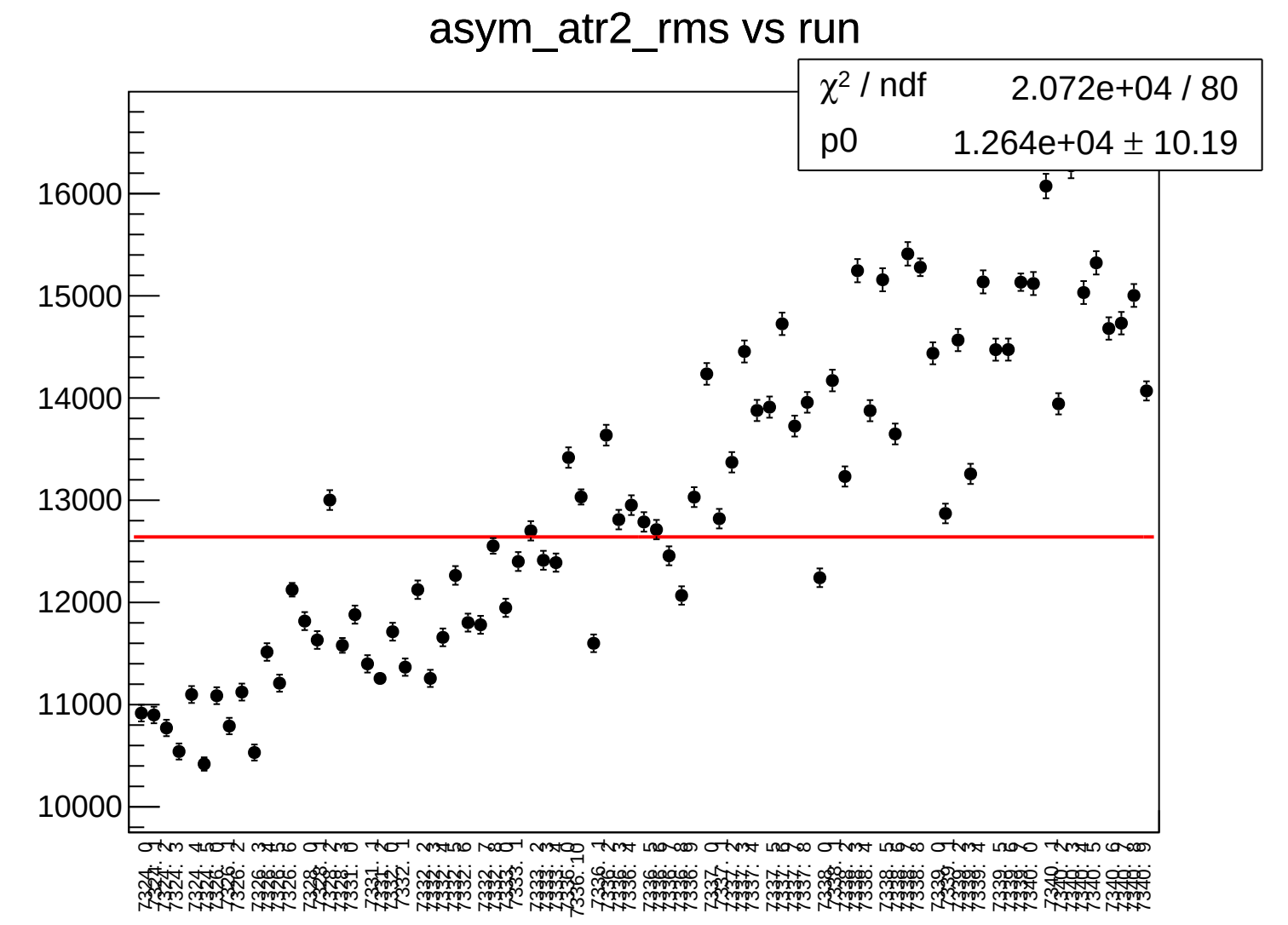

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 81.52 / 80
p0 −3420 ± 1.411e+04
400
200
0
−200
−400
−600
pull
Entries 81
Mean 247.2
Std Dev 216.5
2
1
0
−1
−2

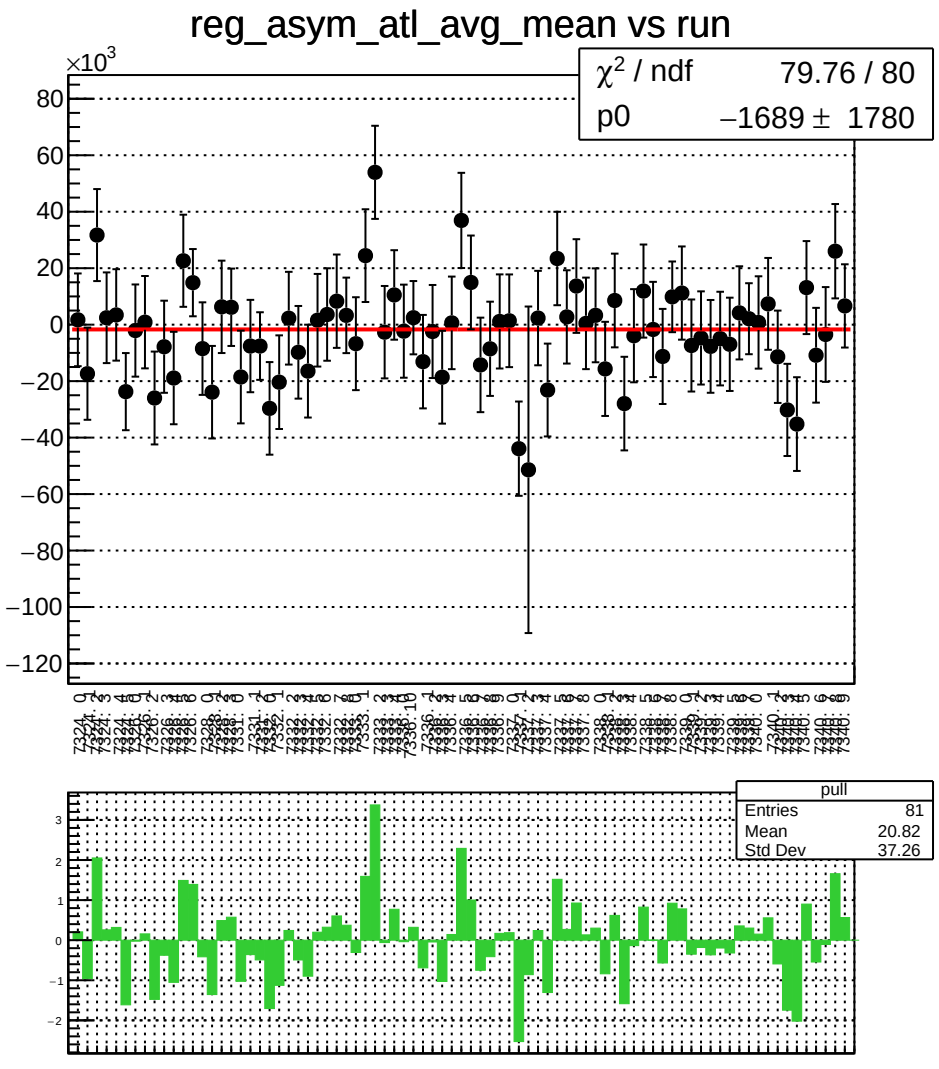

pull1D
Entries 81
Mean 0.01446
Std Dev 1.003
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

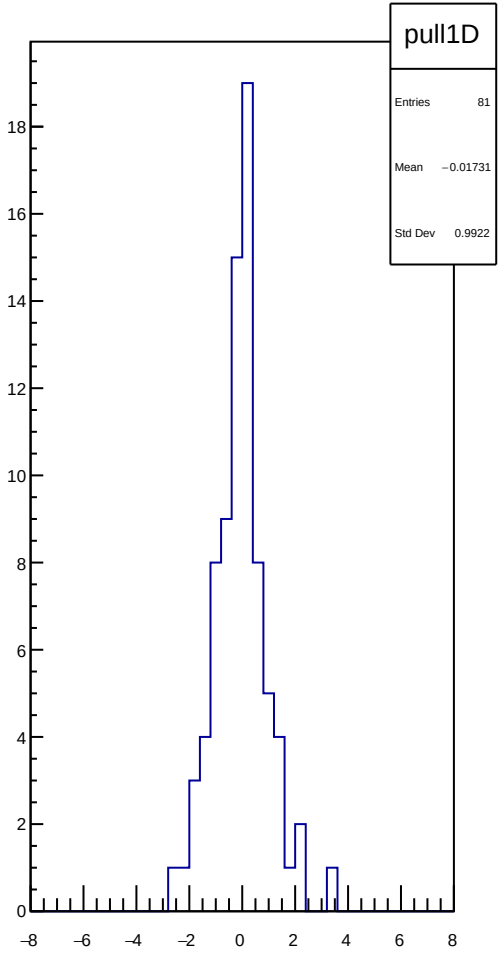

asym_atr2_correction_rms vs run
χ² / ndf 2.232e+04 / 80
p0 1.238e+04 ± 9.981
16000
15000
14000
13000
12000
11000
10000

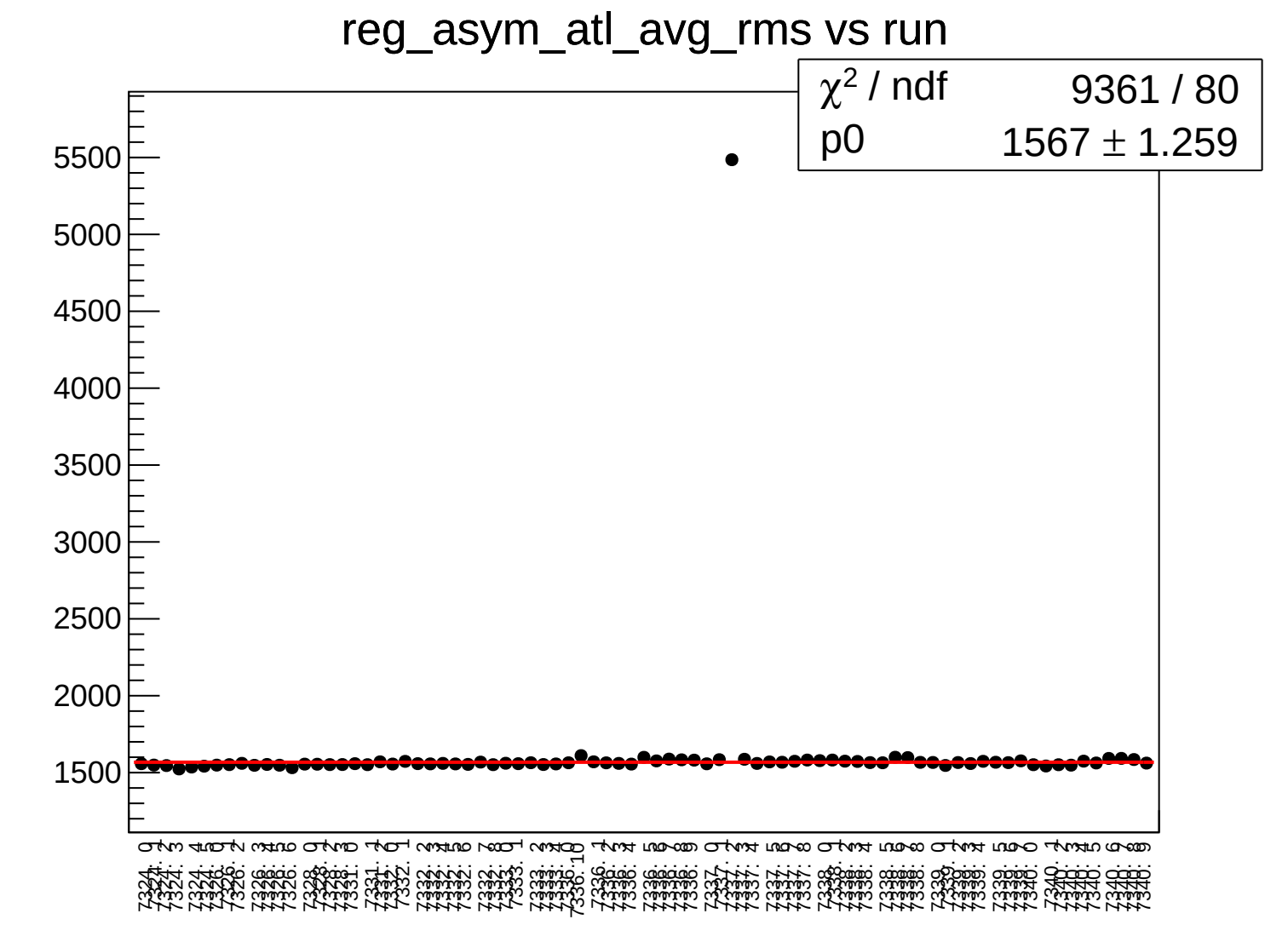

asym_atr2_mean vs run
×10^3
600
400
200
0
−200
−400
χ² / ndf 79.1 / 80
p0 4655 ± 1.441e+04
pull
Entries 81
Mean 278.1
Std Dev 248.3
2
1
0
−1
−2

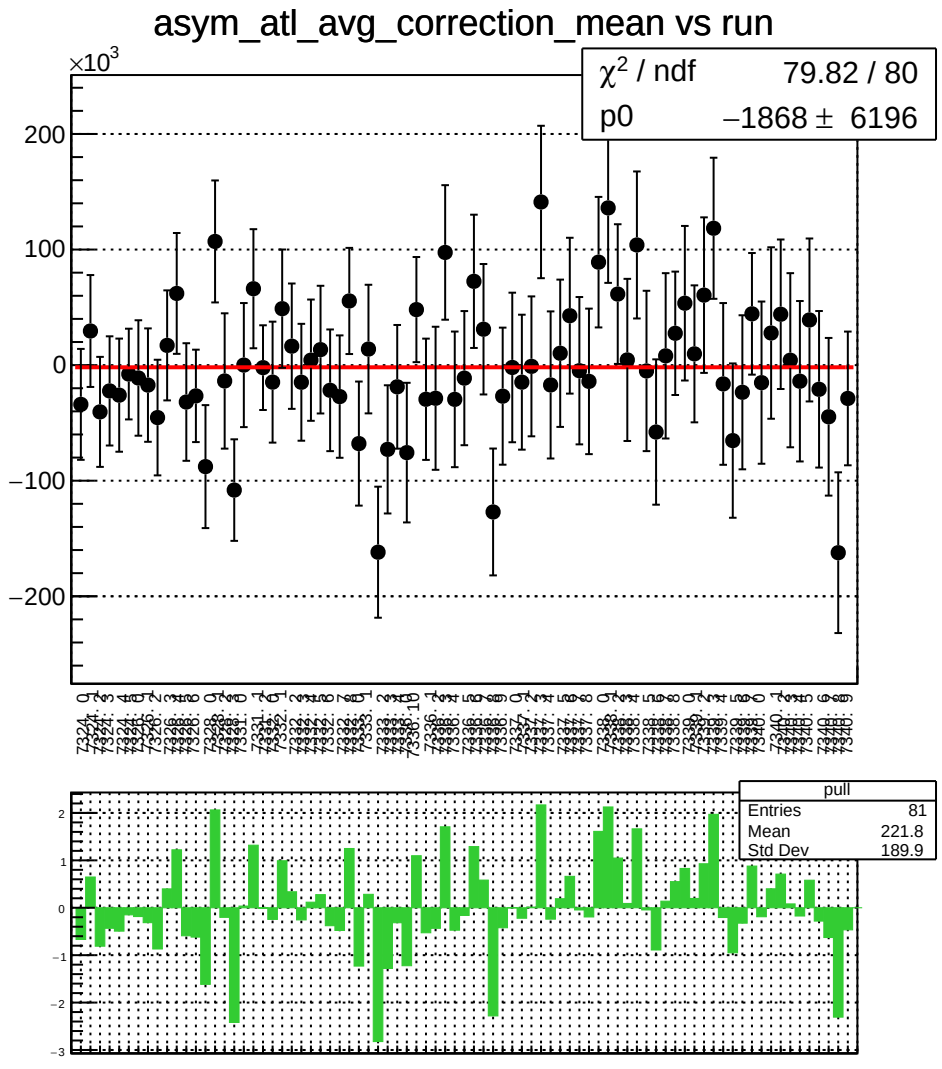

pull1D
Entries 81
Mean −0.0135
Std Dev 0.9881
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

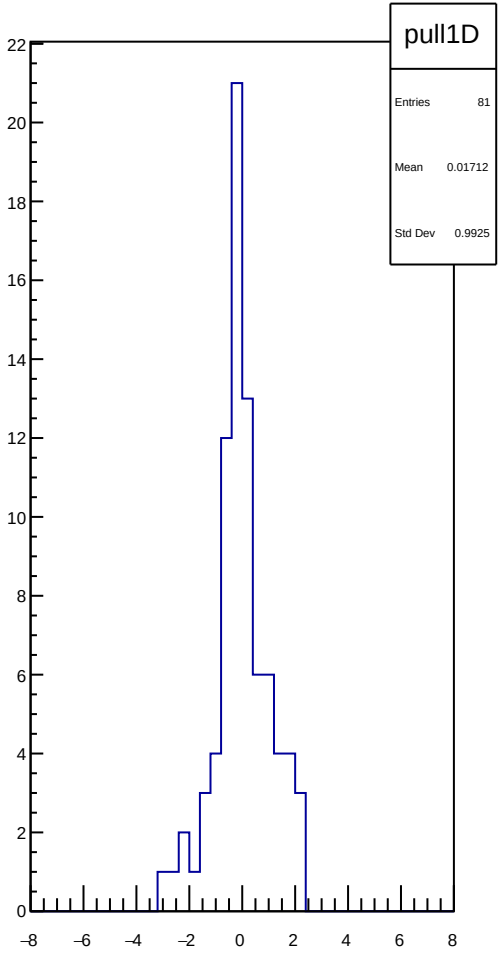

asym_atr2_rms vs run
χ² / ndf 2.072e+04 / 80
p0 1.264e+04 ± 10.19
16000
15000
14000
13000
12000
11000
10000

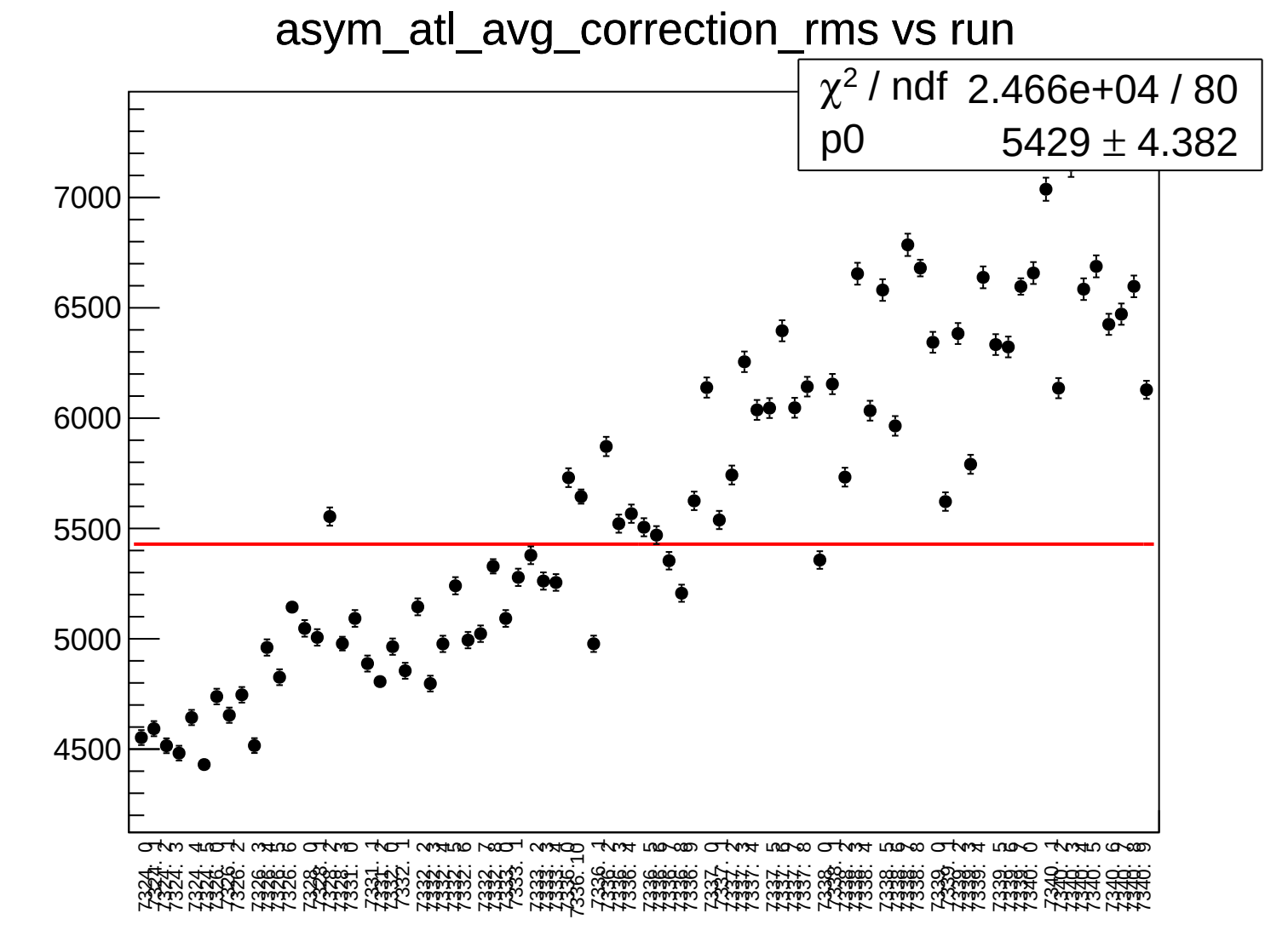

reg_asym_atl_avg_mean vs run
×10^3
χ² / ndf 79.76 / 80
p0 −1689 ± 1780
pull
Entries 81
Mean 20.82
Std Dev 37.26

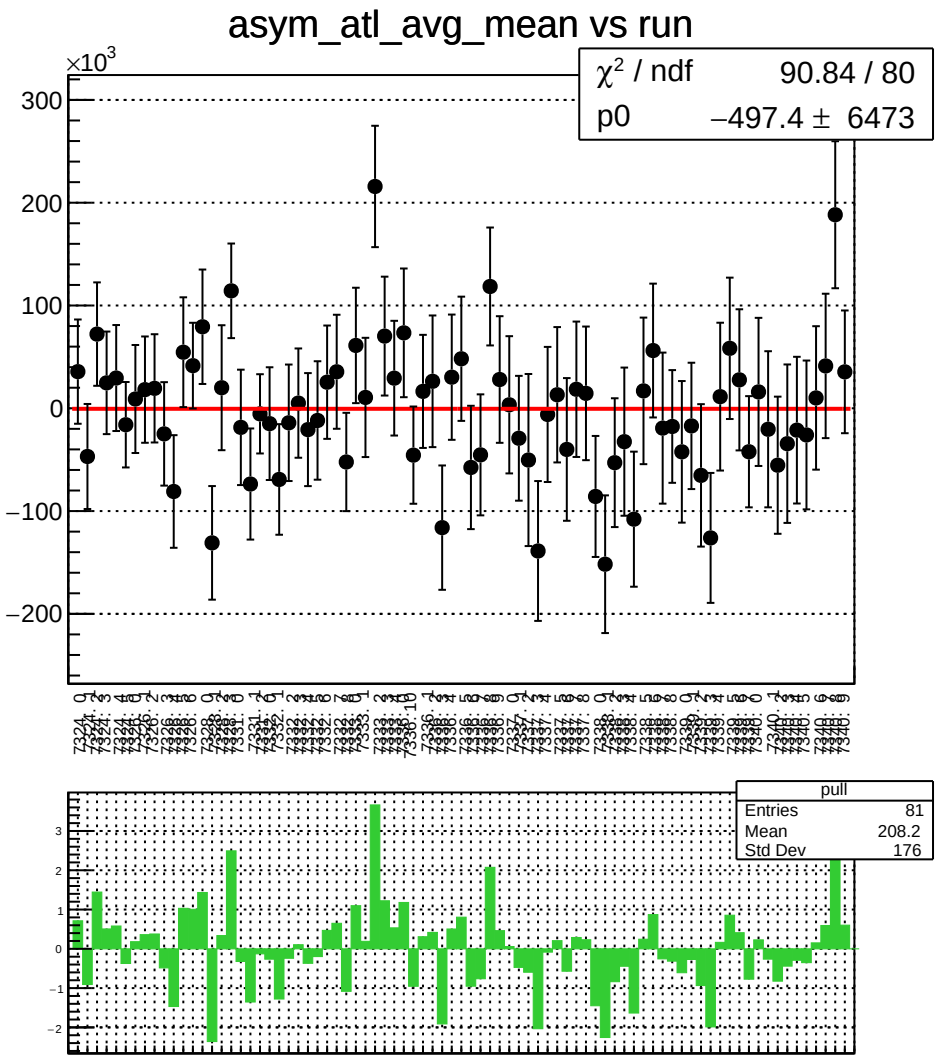

pull1D
Entries 81
Mean −0.01731
Std Dev 0.9922

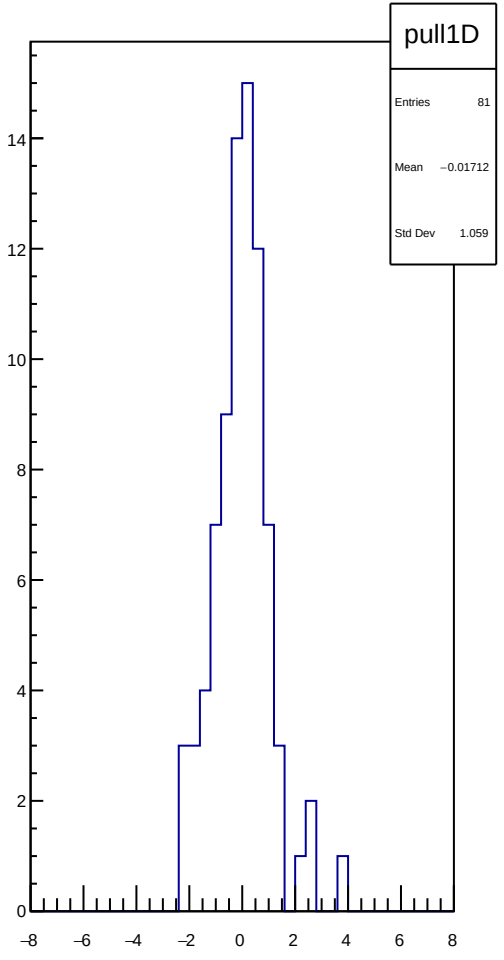

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9361 / 80
p0 1567 ± 1.259
5500
5000
4500
4000
3500
3000
2500
2000
1500

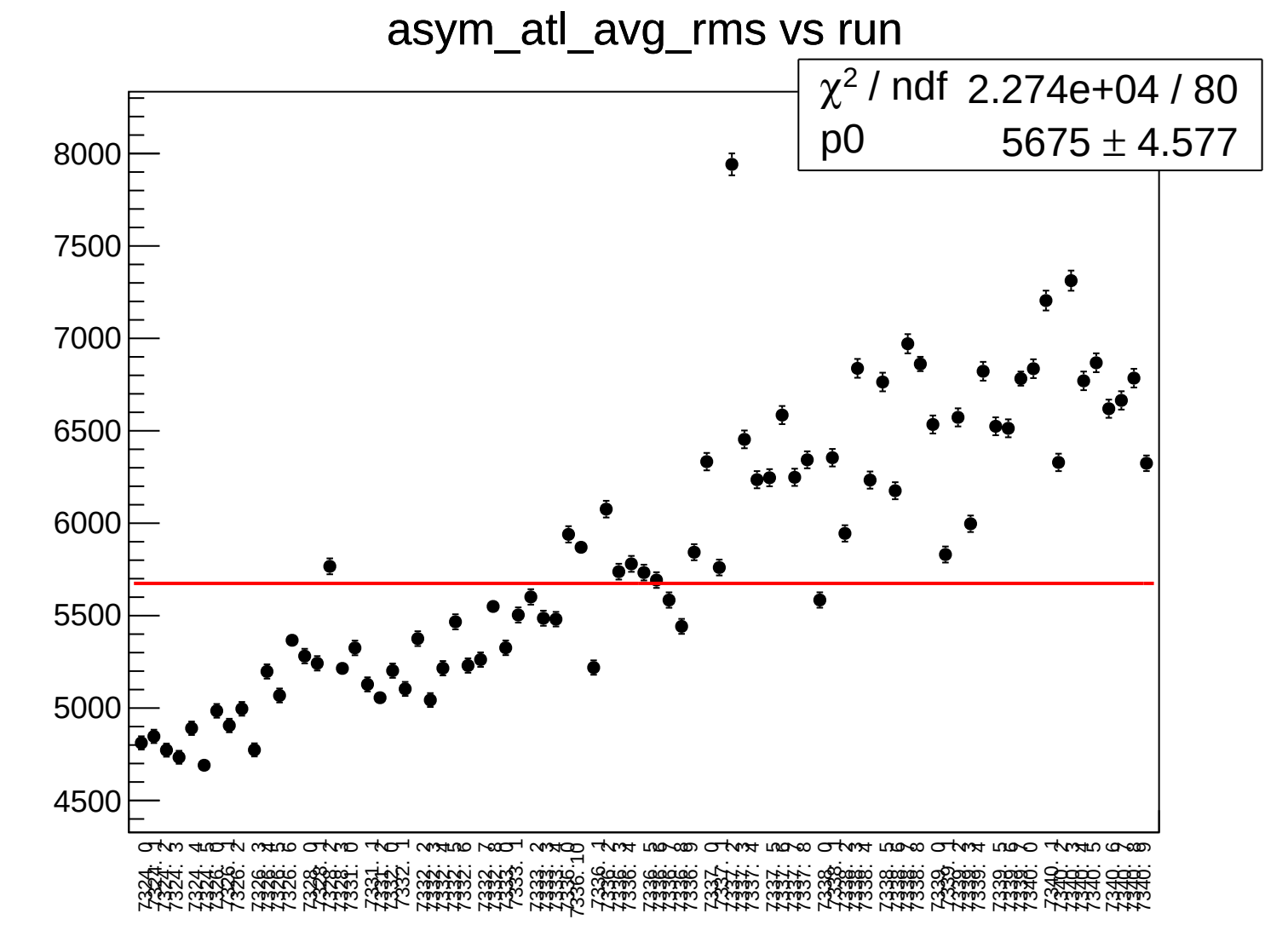

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 79.82 / 80
p0 −1868 ± 6196
200
100
0
−100
−200
pull
Entries 81
Mean 221.8
Std Dev 189.9
2
1
0
−1
−2
−3

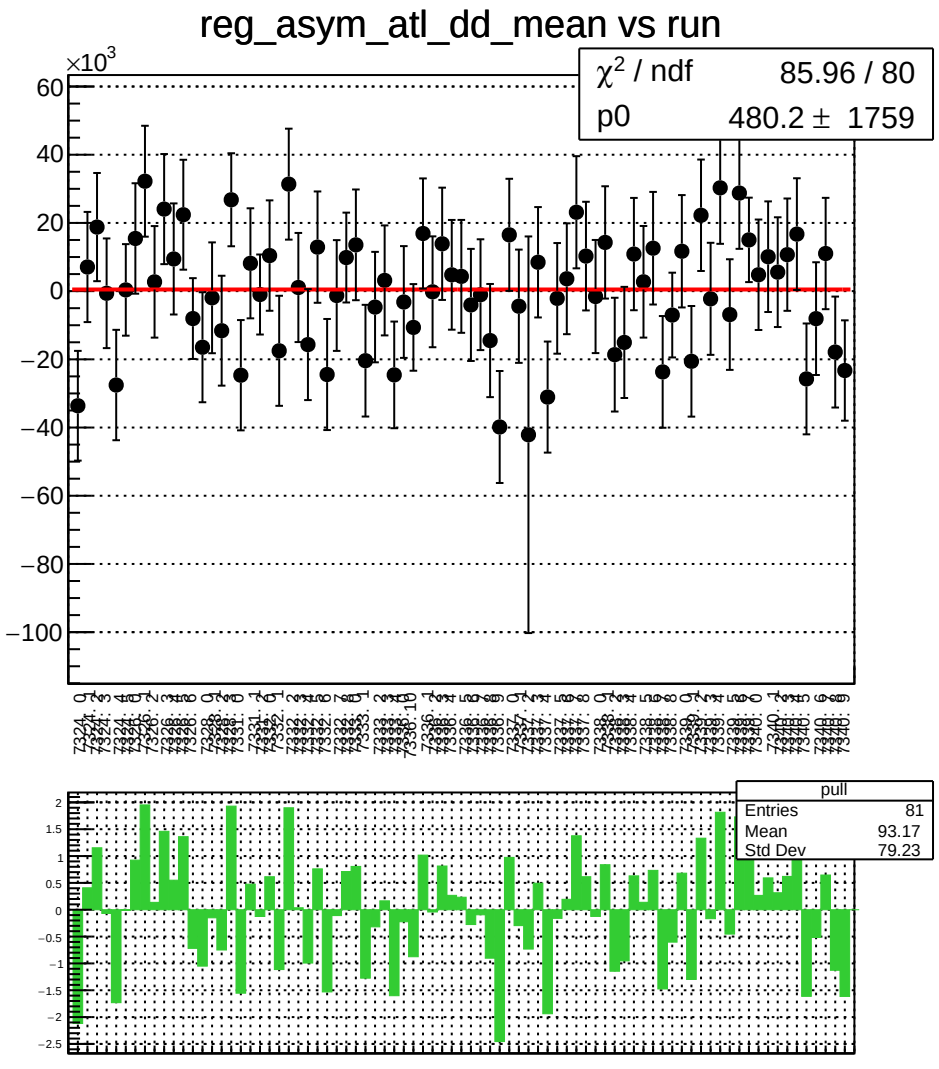

pull1D
Entries 81
Mean 0.01712
Std Dev 0.9925
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

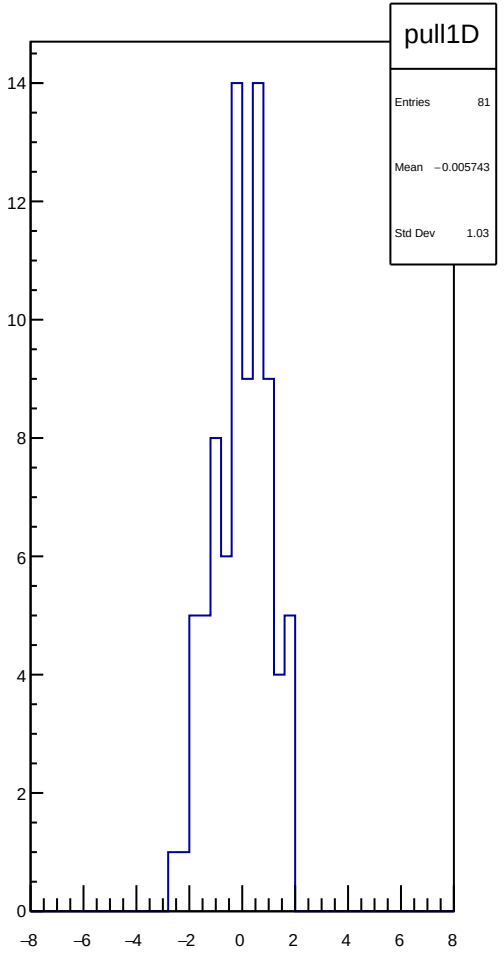

asym_atl_avg_correction_rms vs run
χ² / ndf 2.466e+04 / 80
p0 5429 ± 4.382
7000
6500
6000
5500
5000
4500

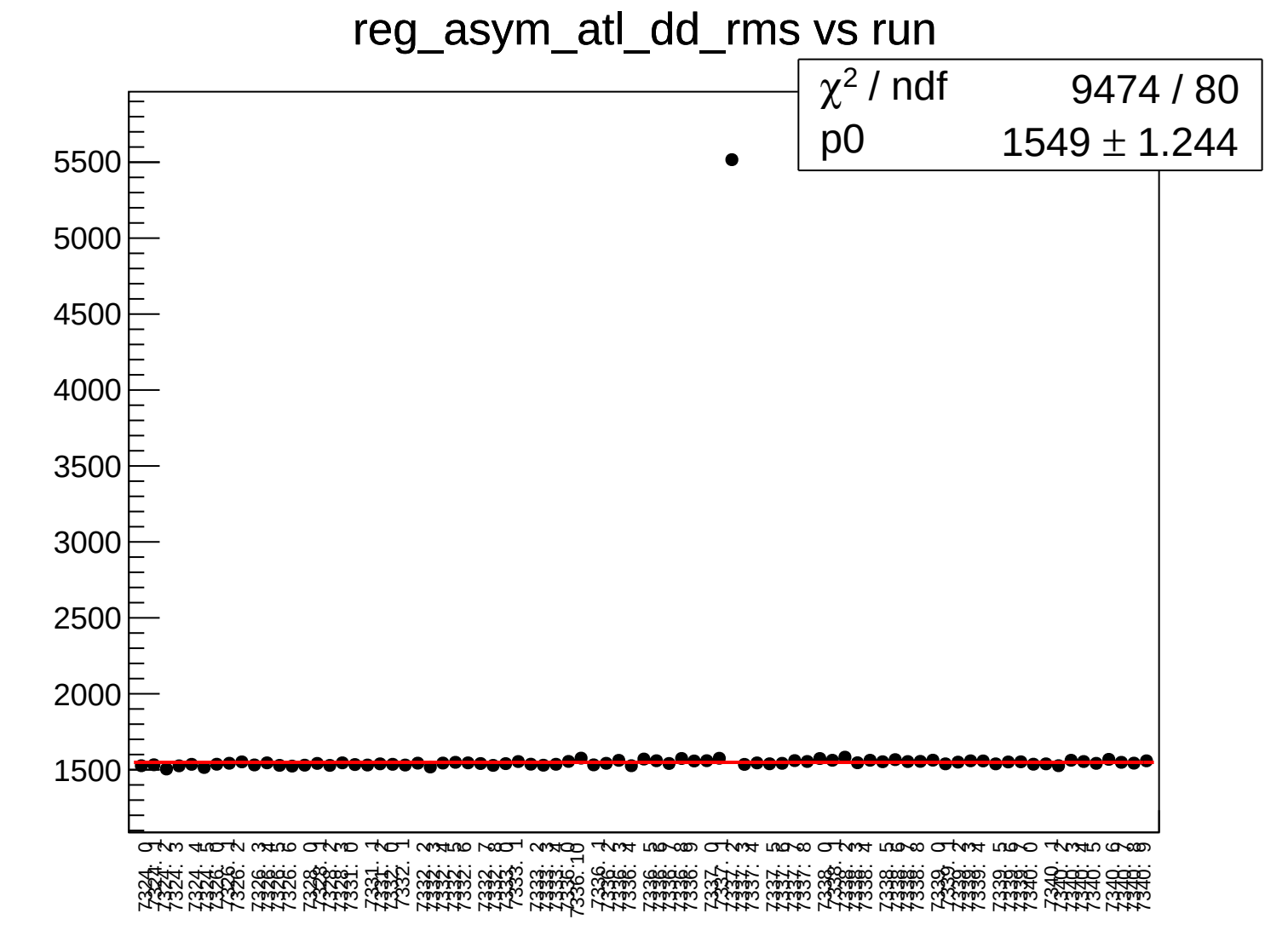

asym_atl_avg_mean vs run
×10^3
χ² / ndf 90.84 / 80
p0 −497.4 ± 6473
300
200
100
0
−100
−200
pull
Entries 81
Mean 208.2
Std Dev 176
3
2
1
0
−1
−2

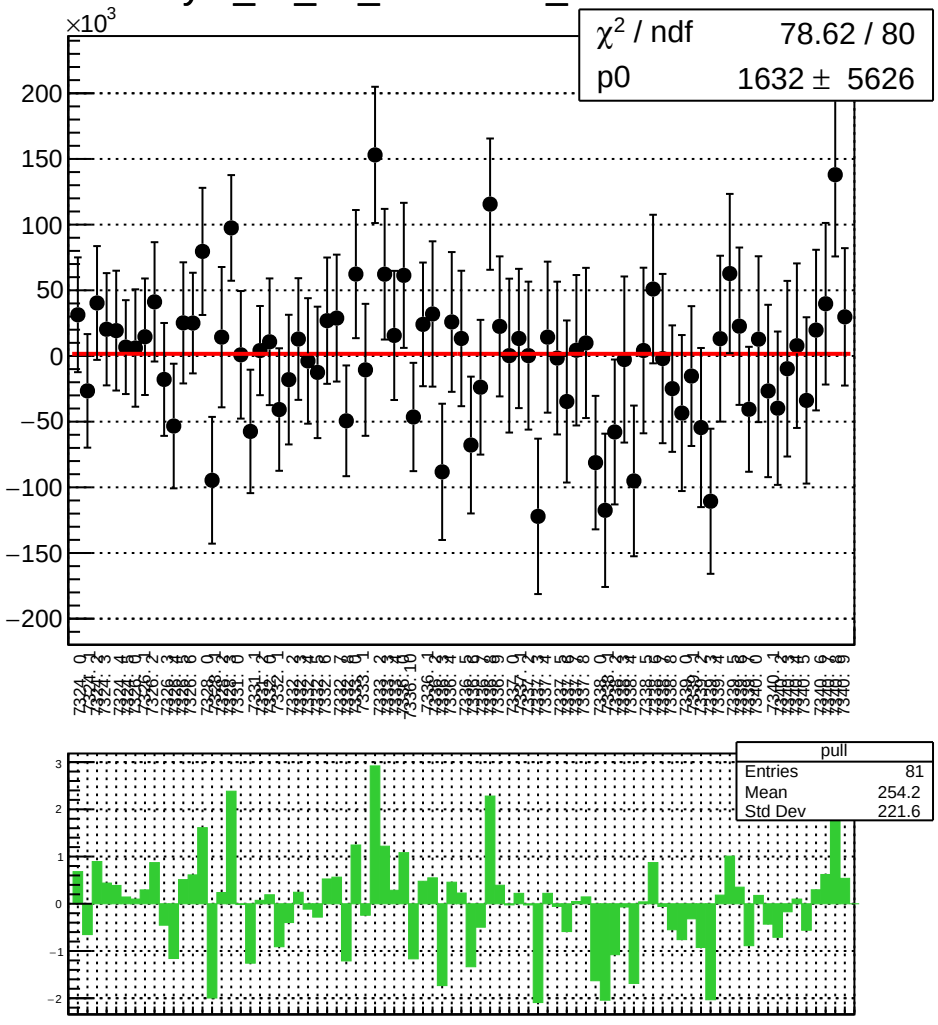

pull1D
Entries 81
Mean −0.01712
Std Dev 1.059
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

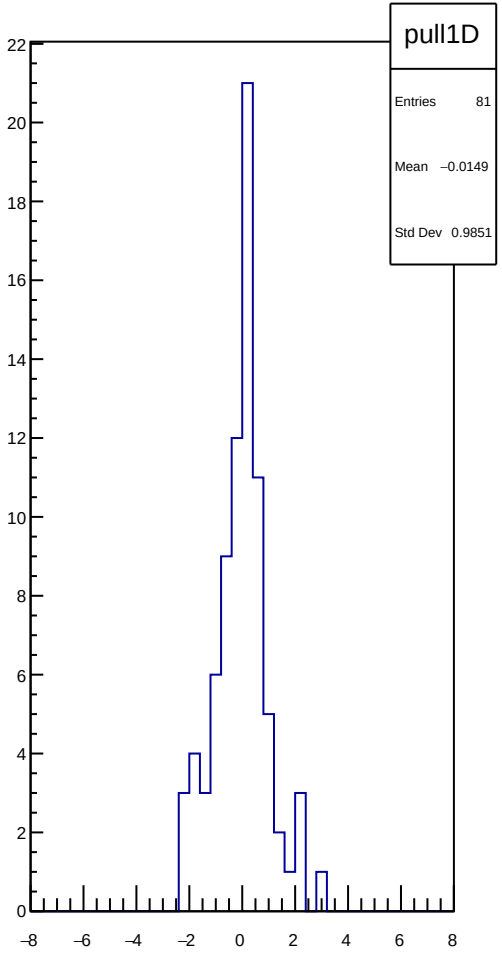

asym_atl_avg_rms vs run
χ^2 / ndf 2.274e+04 / 80
p0 5675 ± 4.577
8000
7500
7000
6500
6000
5500
5000
4500

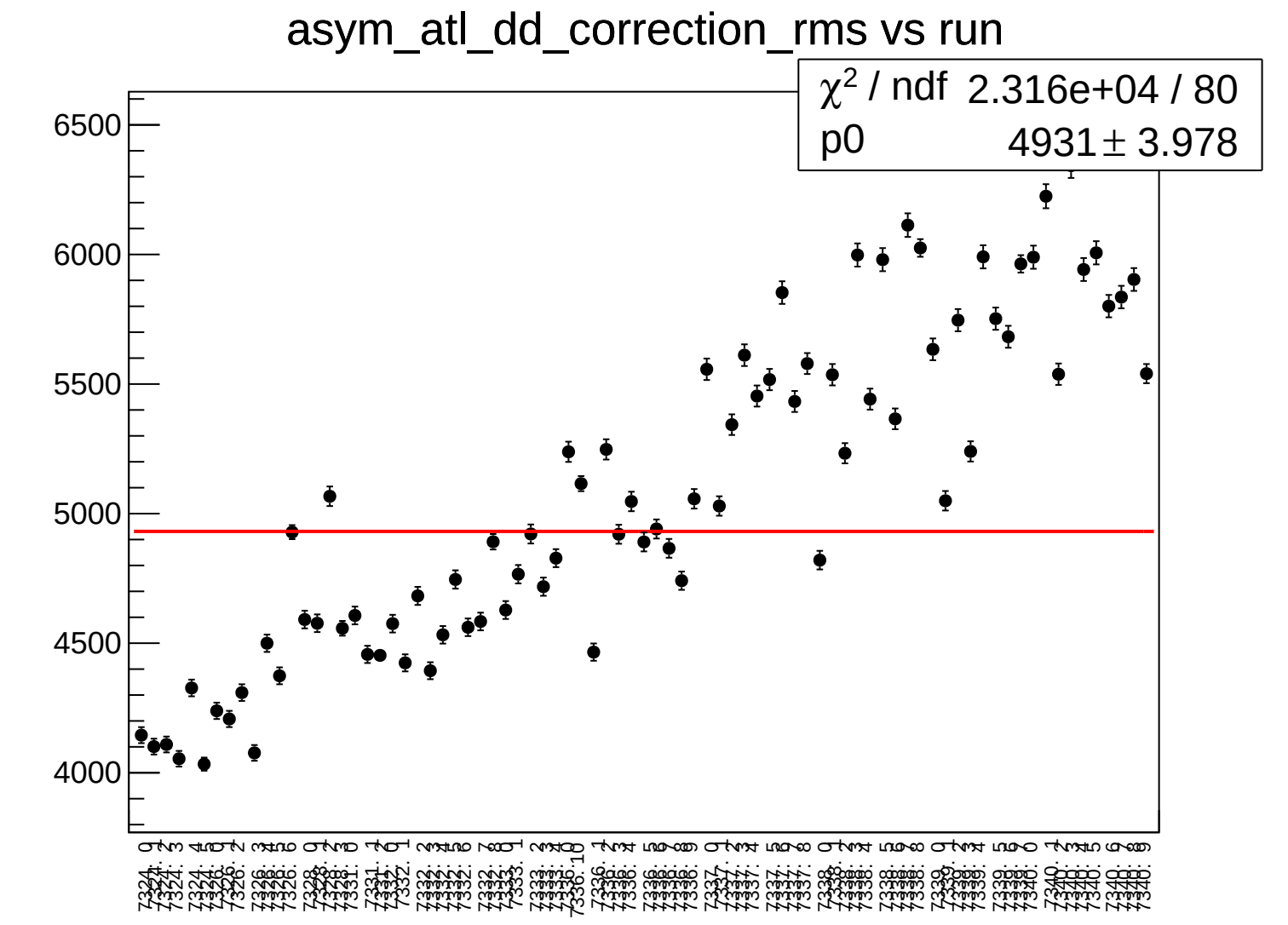

reg_asym_atl_dd_mean vs run
×10^3
χ² / ndf 85.96 / 80
p0 480.2 ± 1759
pull
Entries 81
Mean 93.17
Std Dev 79.23

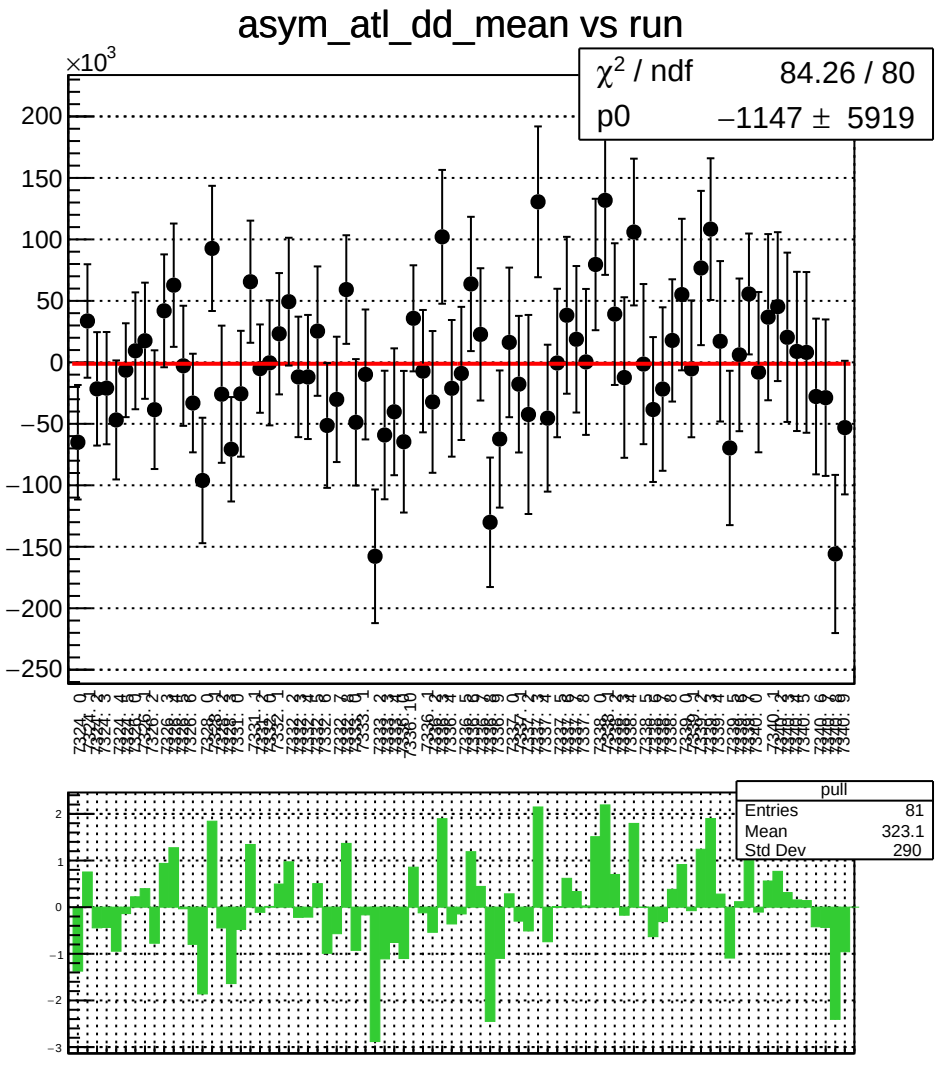

pull1D
Entries 81
Mean −0.005743
Std Dev 1.03

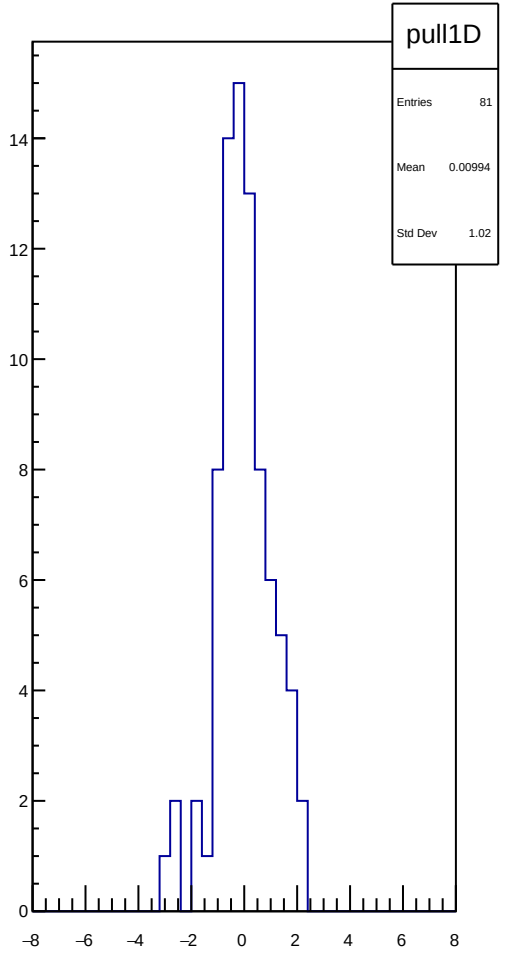

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9474 / 80
p0 1549 ± 1.244
5500
5000
4500
4000
3500
3000
2500
2000
1500

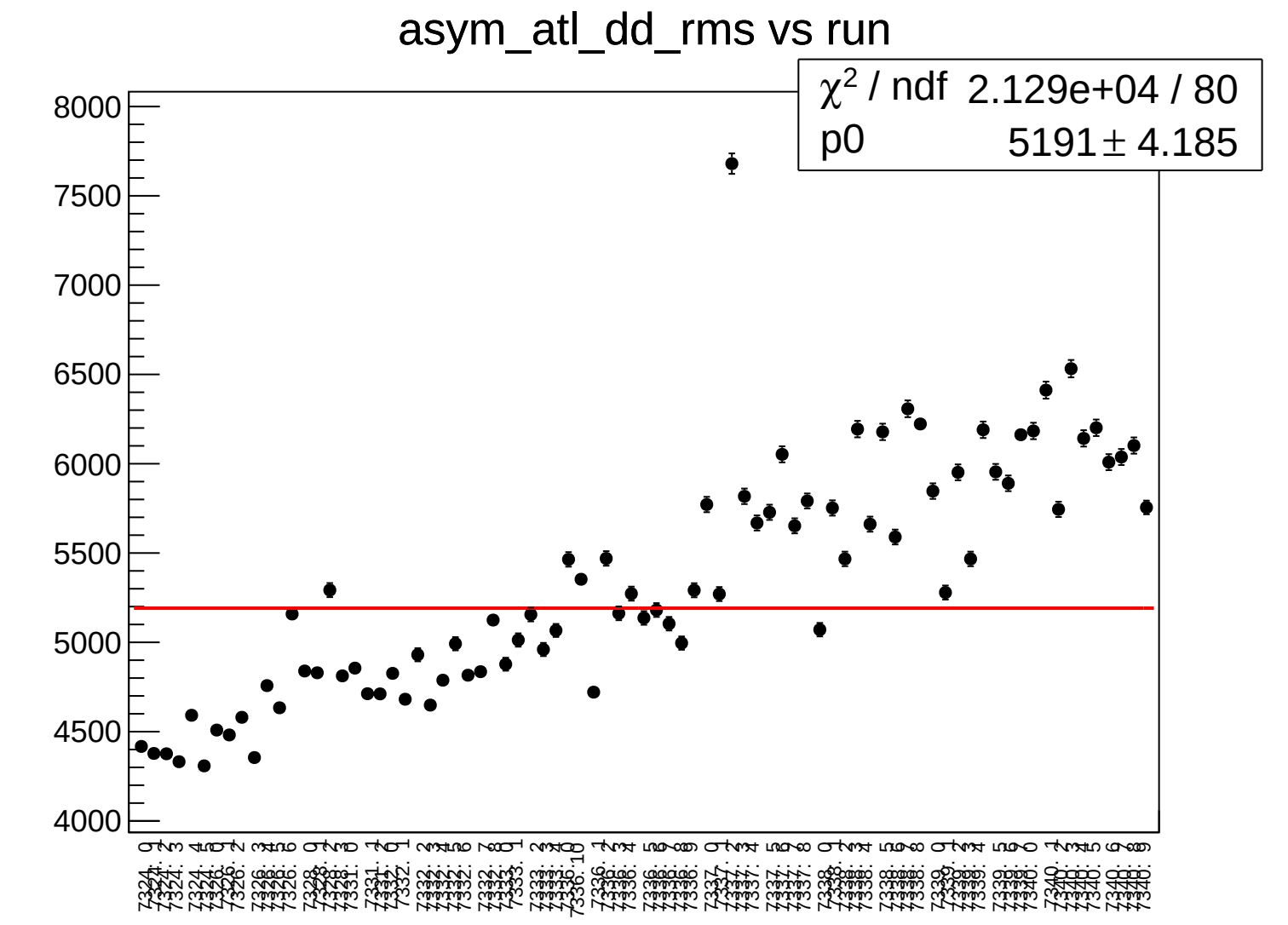

asym_atl_dd_correction_mean vs run
χ² / ndf 78.62 / 80
p0 1632 ± 5626
×10³
pull
Entries 81
Mean 254.2
Std Dev 221.6

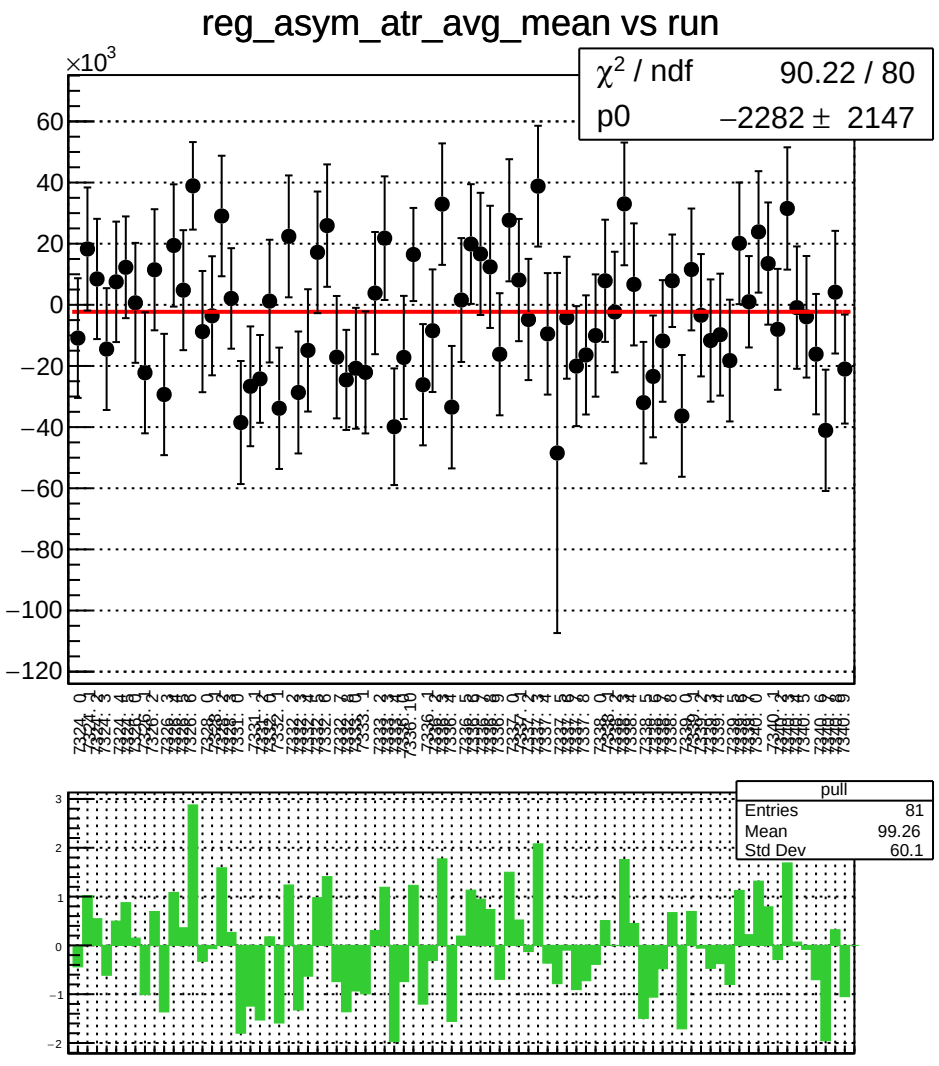

pull1D
Entries 81
Mean −0.0149
Std Dev 0.9851

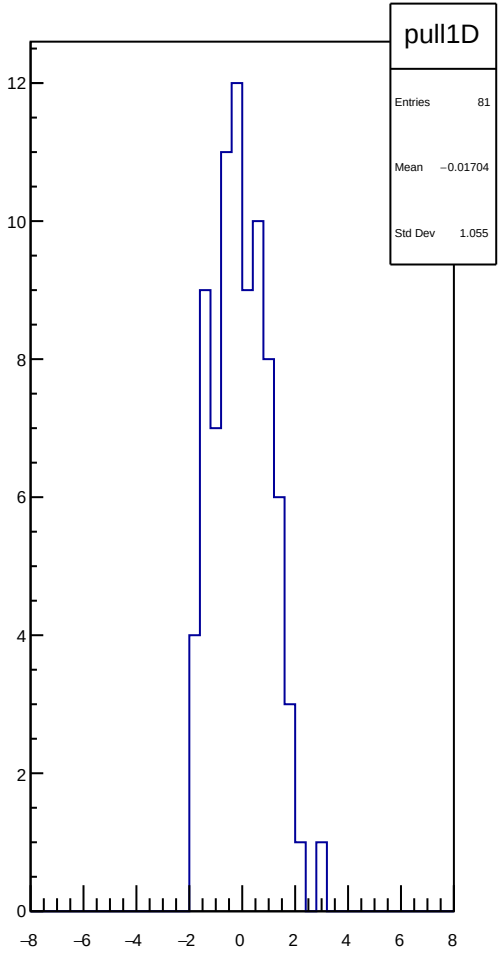

asym_atl_dd_correction_rms vs run
χ² / ndf 2.316e+04 / 80
p0 4931 ± 3.978
6500
6000
5500
5000
4500
4000

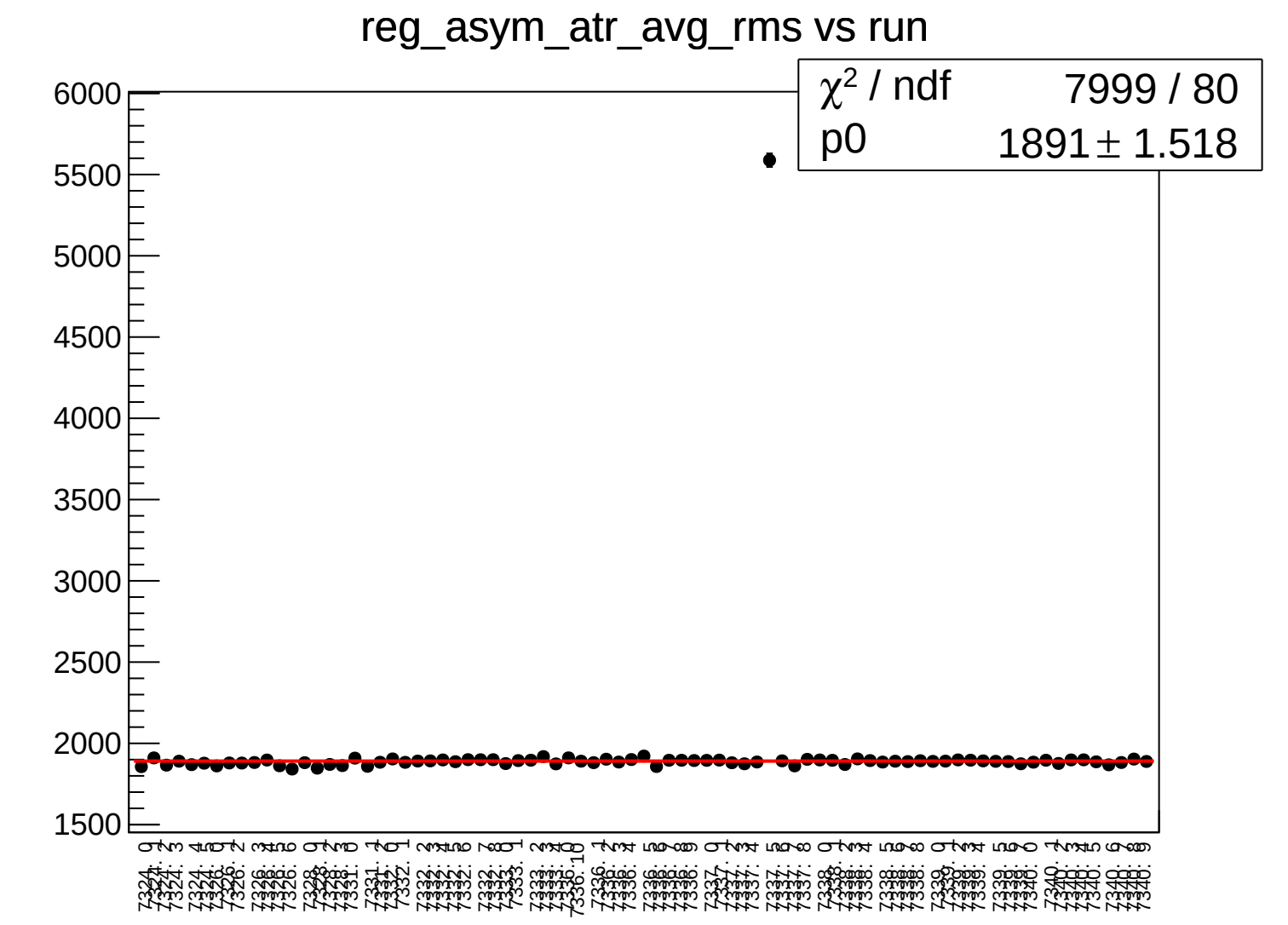

asym_atl_dd_mean vs run
×10^3
χ² / ndf 84.26 / 80
p0 −1147 ± 5919
pull
Entries 81
Mean 323.1
Std Dev 290

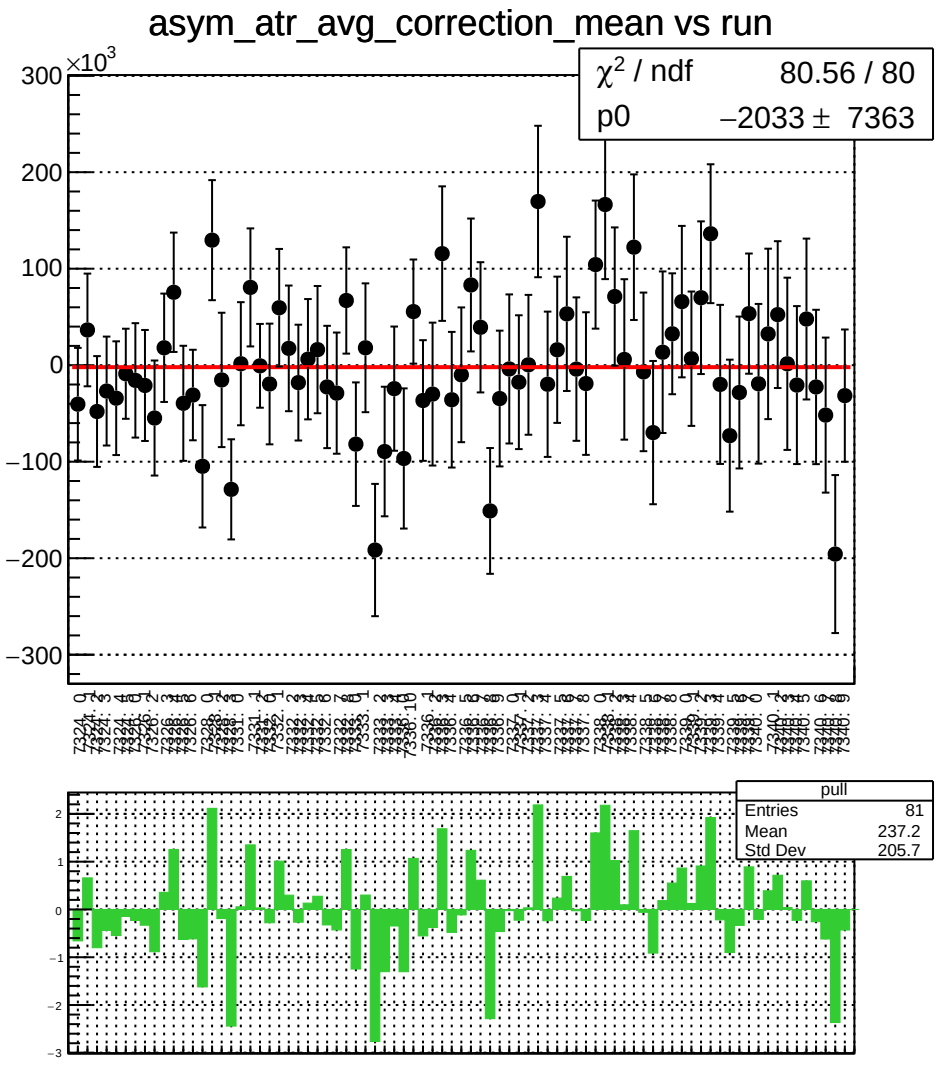

pull1D
Entries 81
Mean 0.00994
Std Dev 1.02

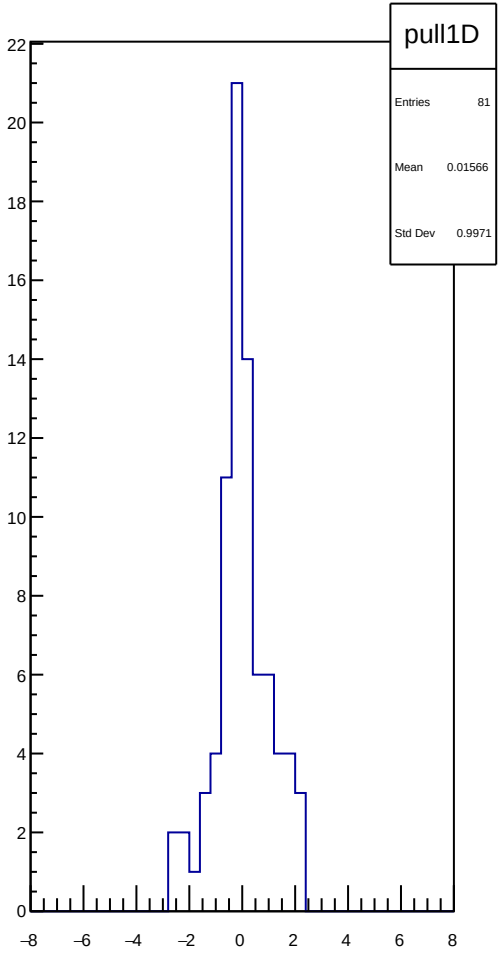

asym_atl_dd_rms vs run
χ² / ndf 2.129e+04 / 80
p0 5191 ± 4.185
8000
7500
7000
6500
6000
5500
5000
4500
4000

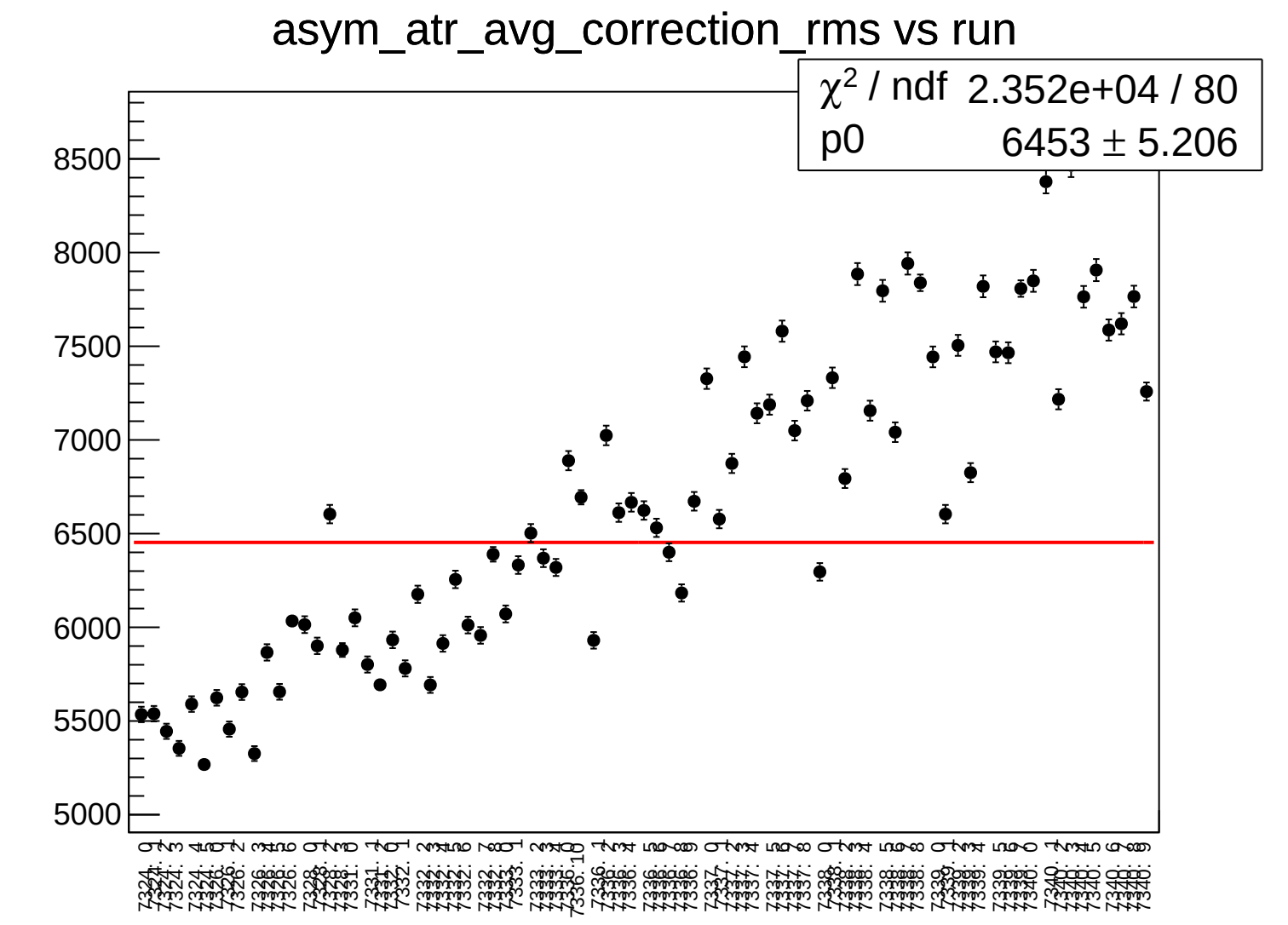

reg_asym_atr_avg_mean vs run
×10^3
χ^2 / ndf 90.22 / 80
p0 −2282 ± 2147
pull
Entries 81
Mean 99.26
Std Dev 60.1

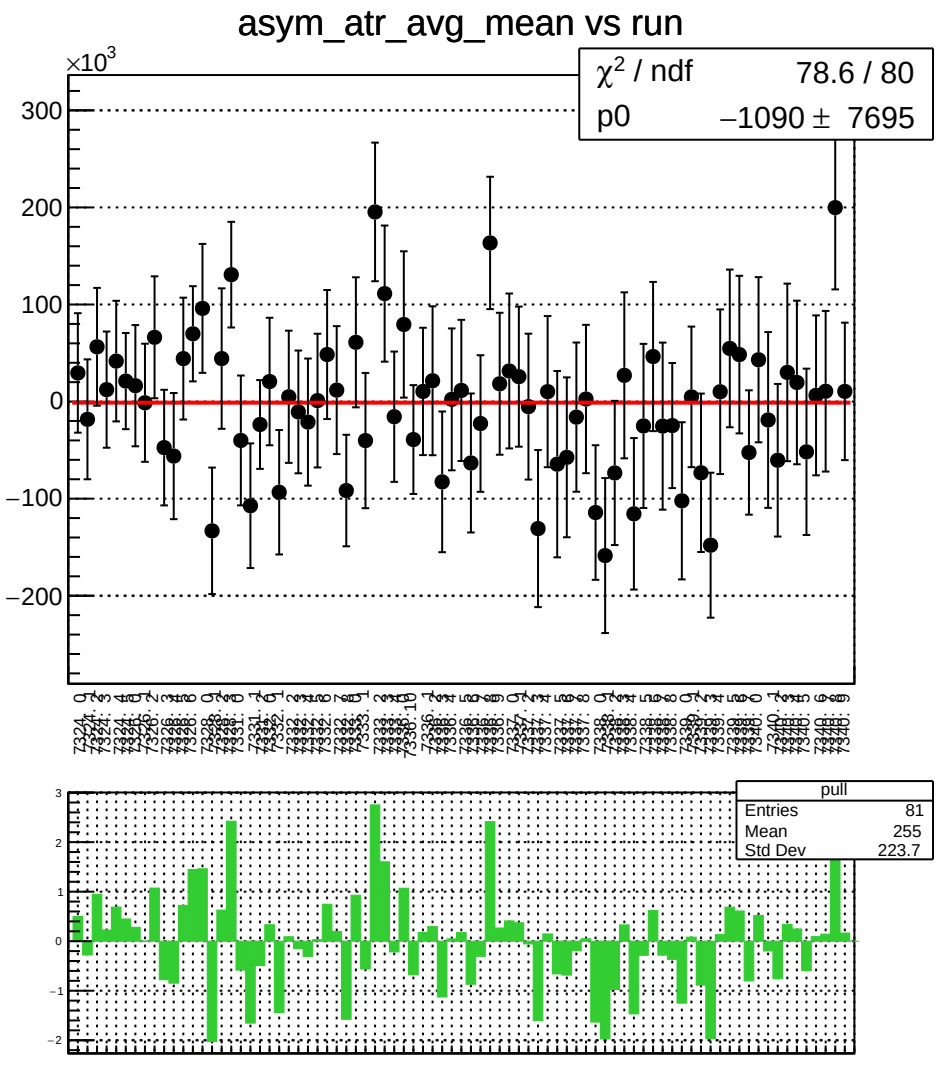

pull1D
Entries 81
Mean −0.01704
Std Dev 1.055

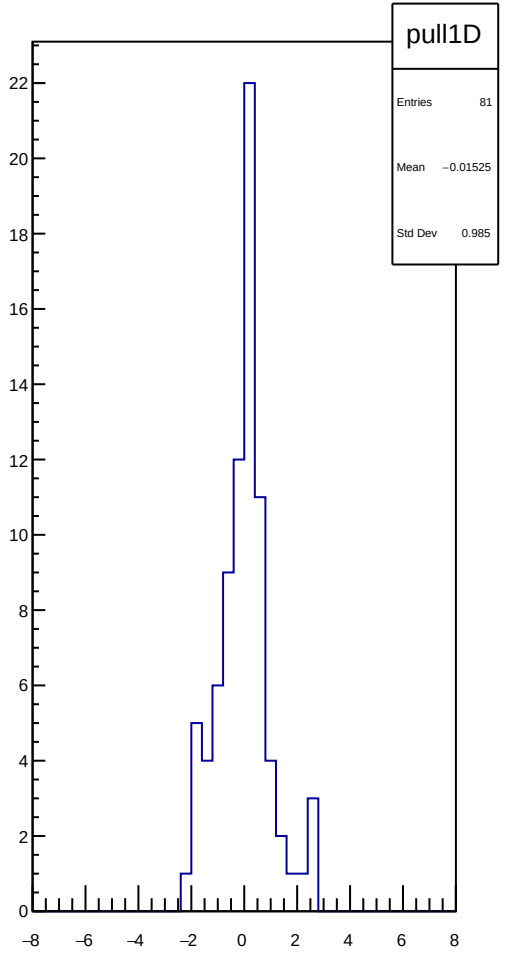

reg_asym_atr_avg_rms vs run
χ^2 / ndf 7999 / 80
p0 1891 ± 1.518
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

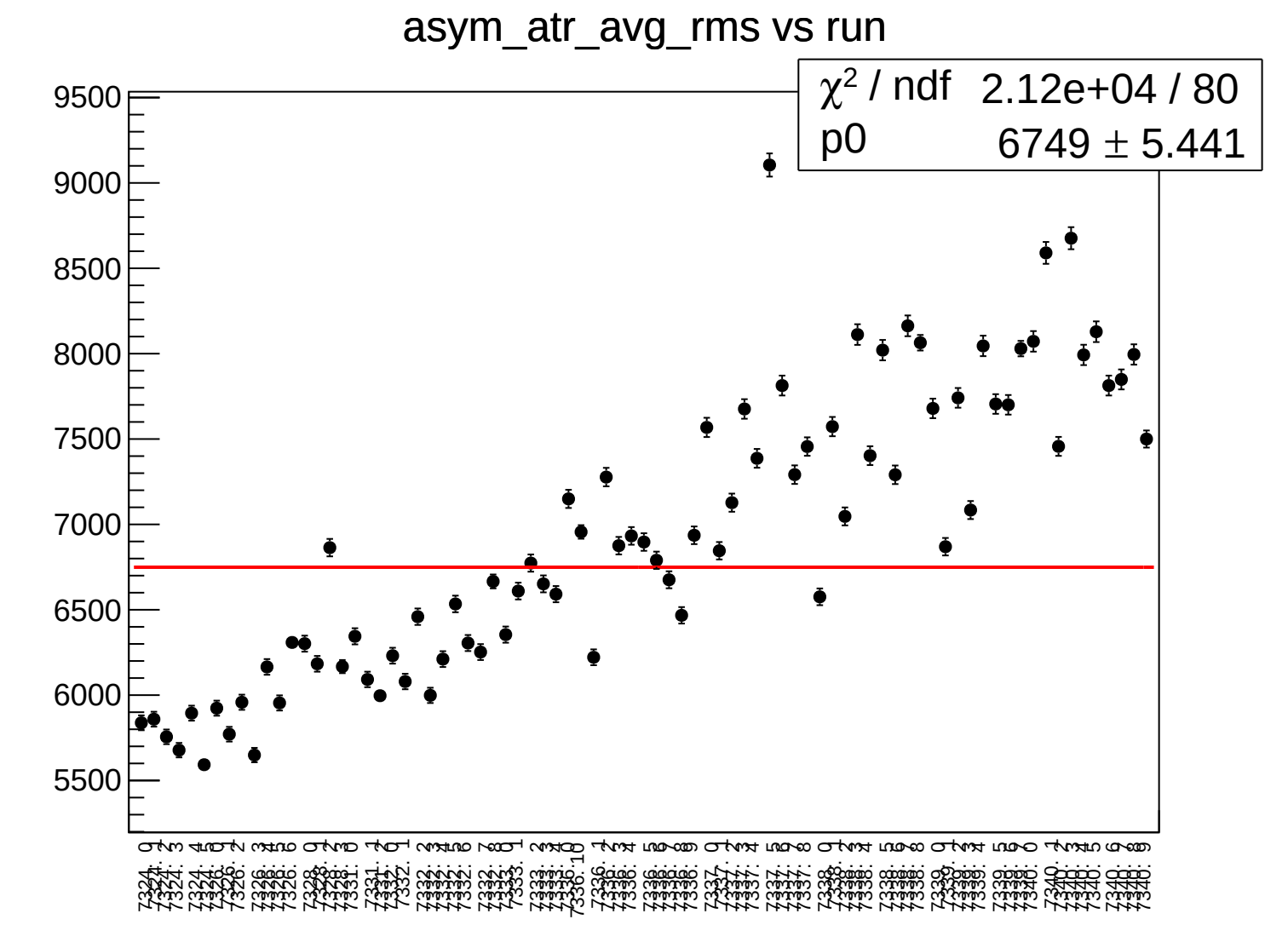

asym_atr_avg_correction_mean vs run
χ^2 / ndf 80.56 / 80
p0 −2033 ± 7363
×10^3
pull
Entries 81
Mean 237.2
Std Dev 205.7

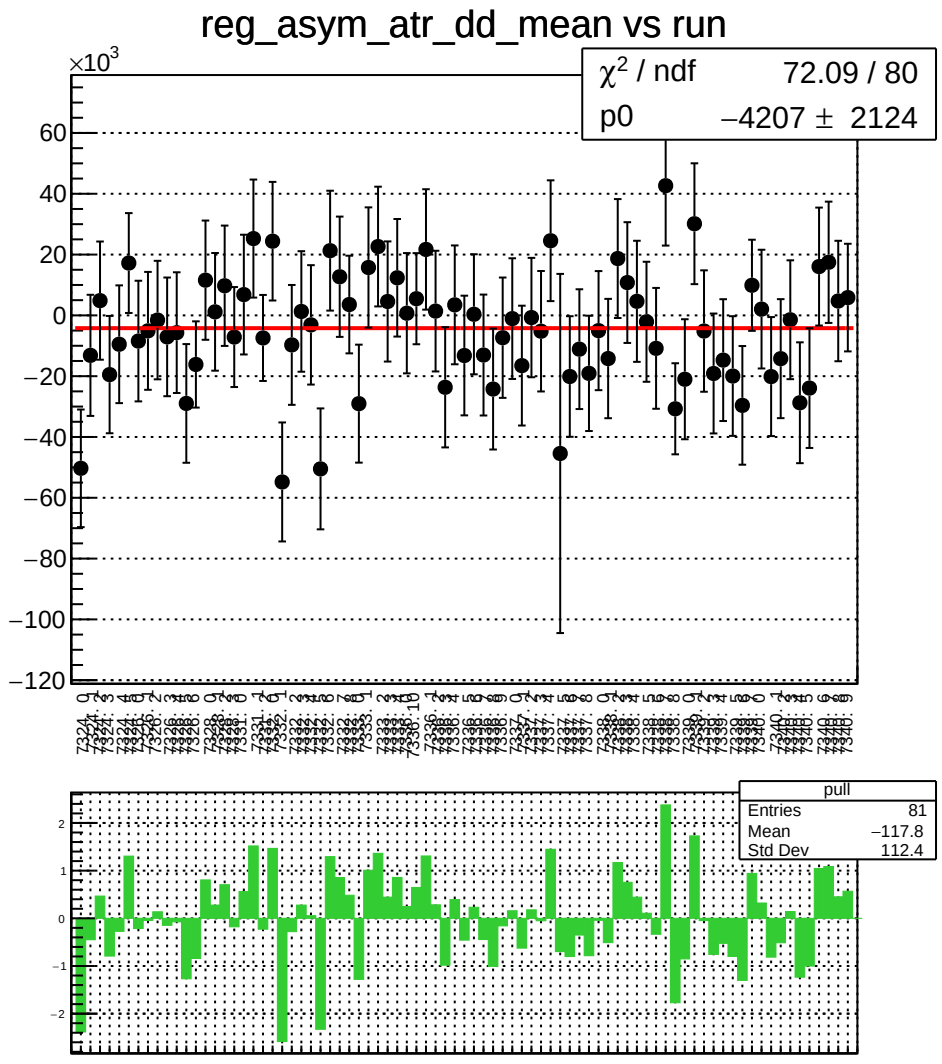

pull1D
Entries 81
Mean 0.01566
Std Dev 0.9971

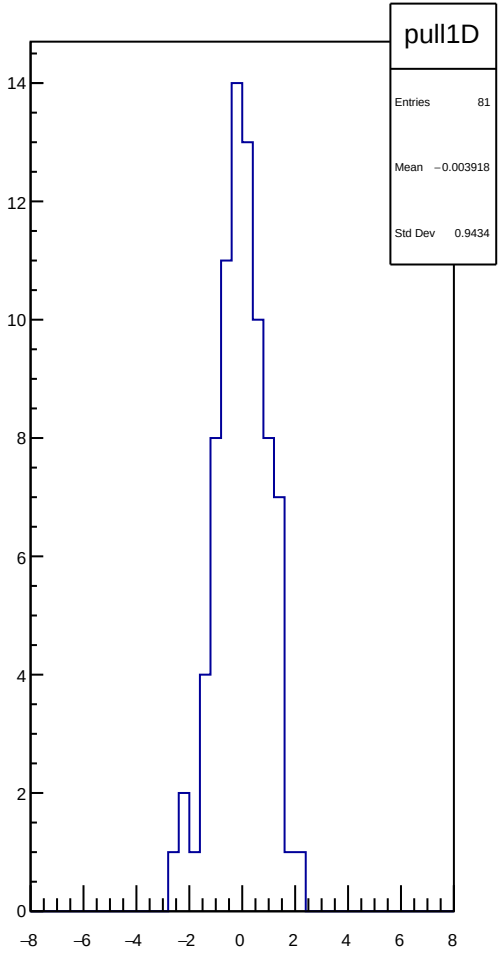

asym_atr_avg_correction_rms vs run
χ² / ndf 2.352e+04 / 80
p0 6453 ± 5.206
8500
8000
7500
7000
6500
6000
5500
5000

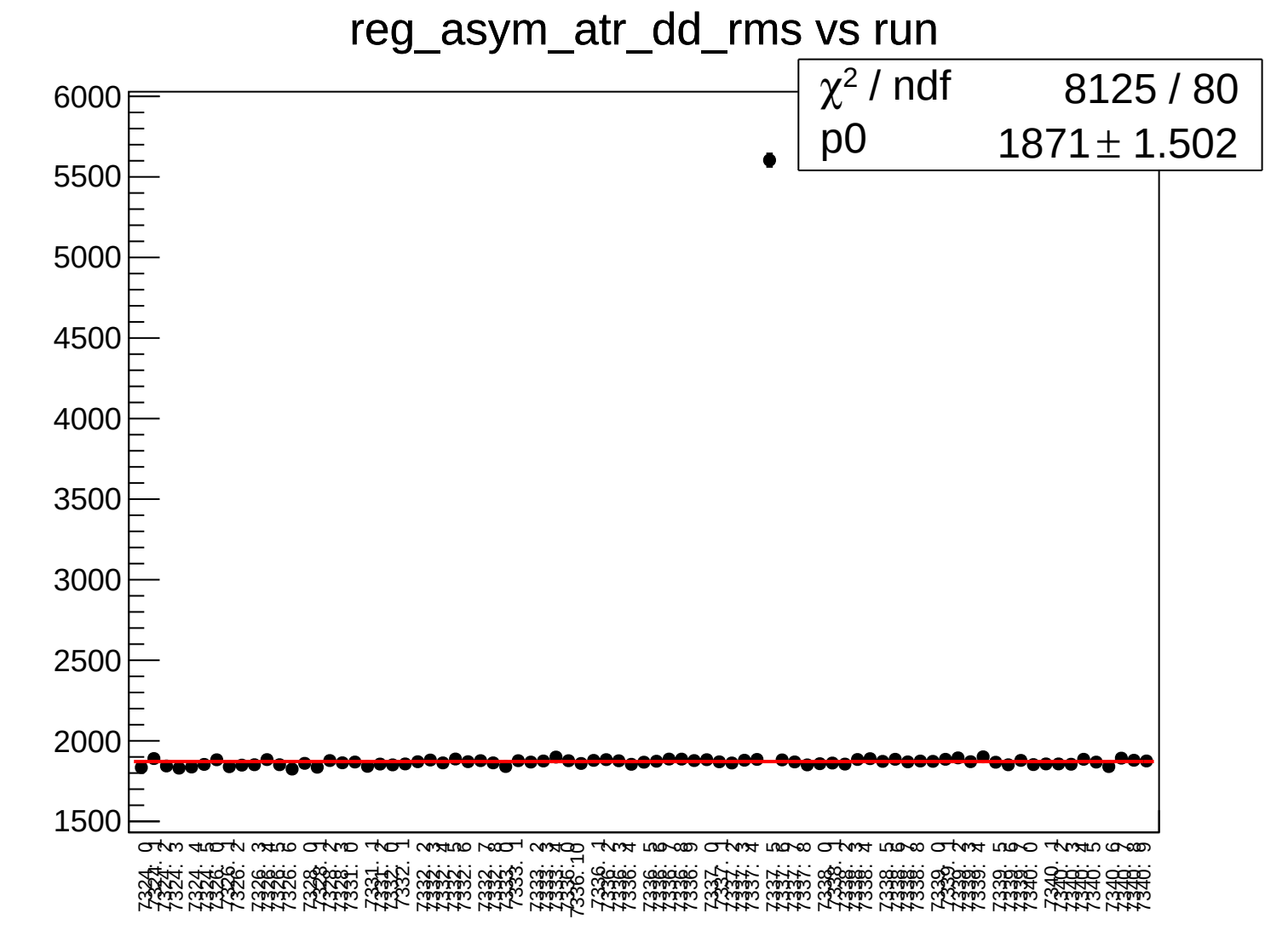

asym_atr_avg_mean vs run
×10^3
χ² / ndf 78.6 / 80
p0 −1090 ± 7695
300
200
100
0
−100
−200
pull
Entries 81
Mean 255
Std Dev 223.7
3
2
1
0
−1
−2

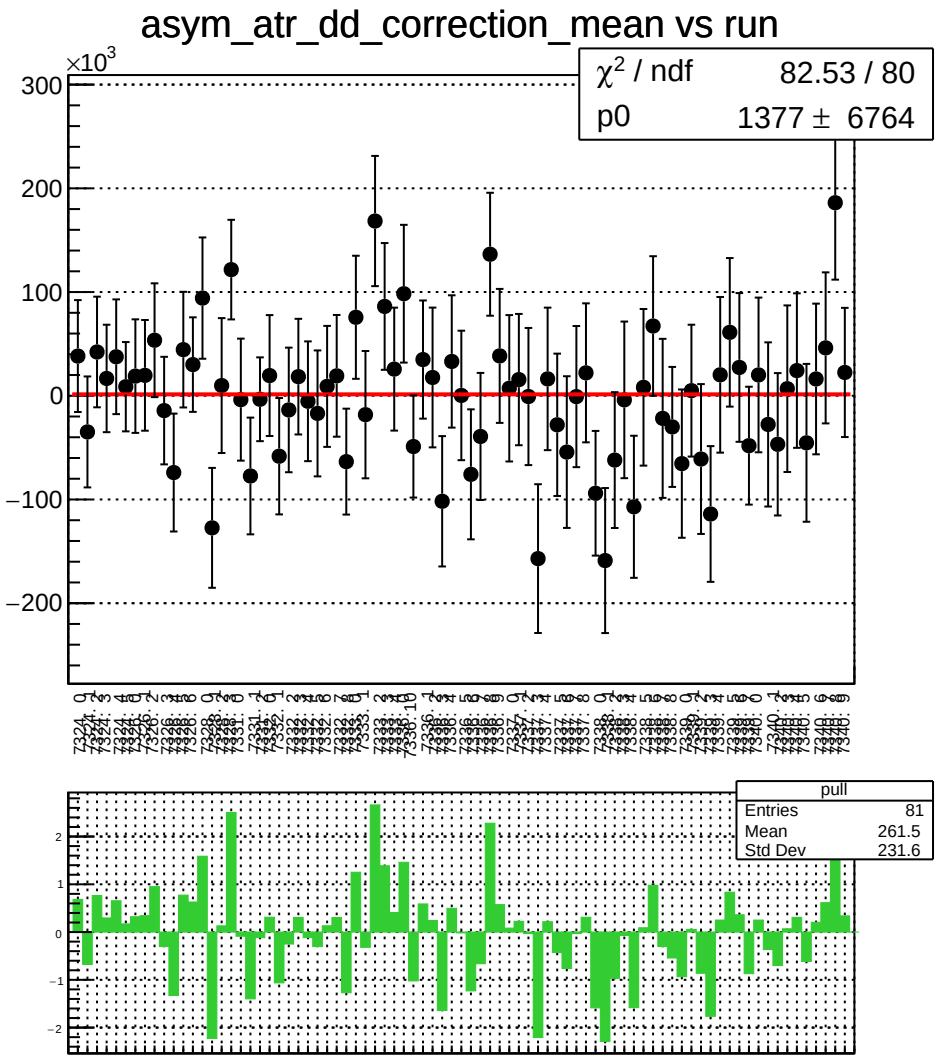

pull1D
Entries 81
Mean −0.01525
Std Dev 0.985
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

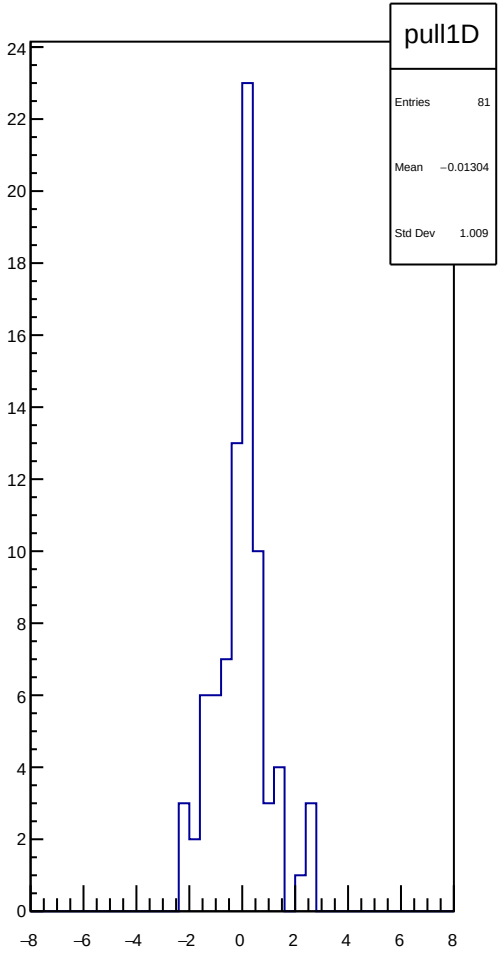

asym_atr_avg_rms vs run
χ^2 / ndf 2.12e+04 / 80
p0 6749 ± 5.441
9500
9000
8500
8000
7500
7000
6500
6000
5500

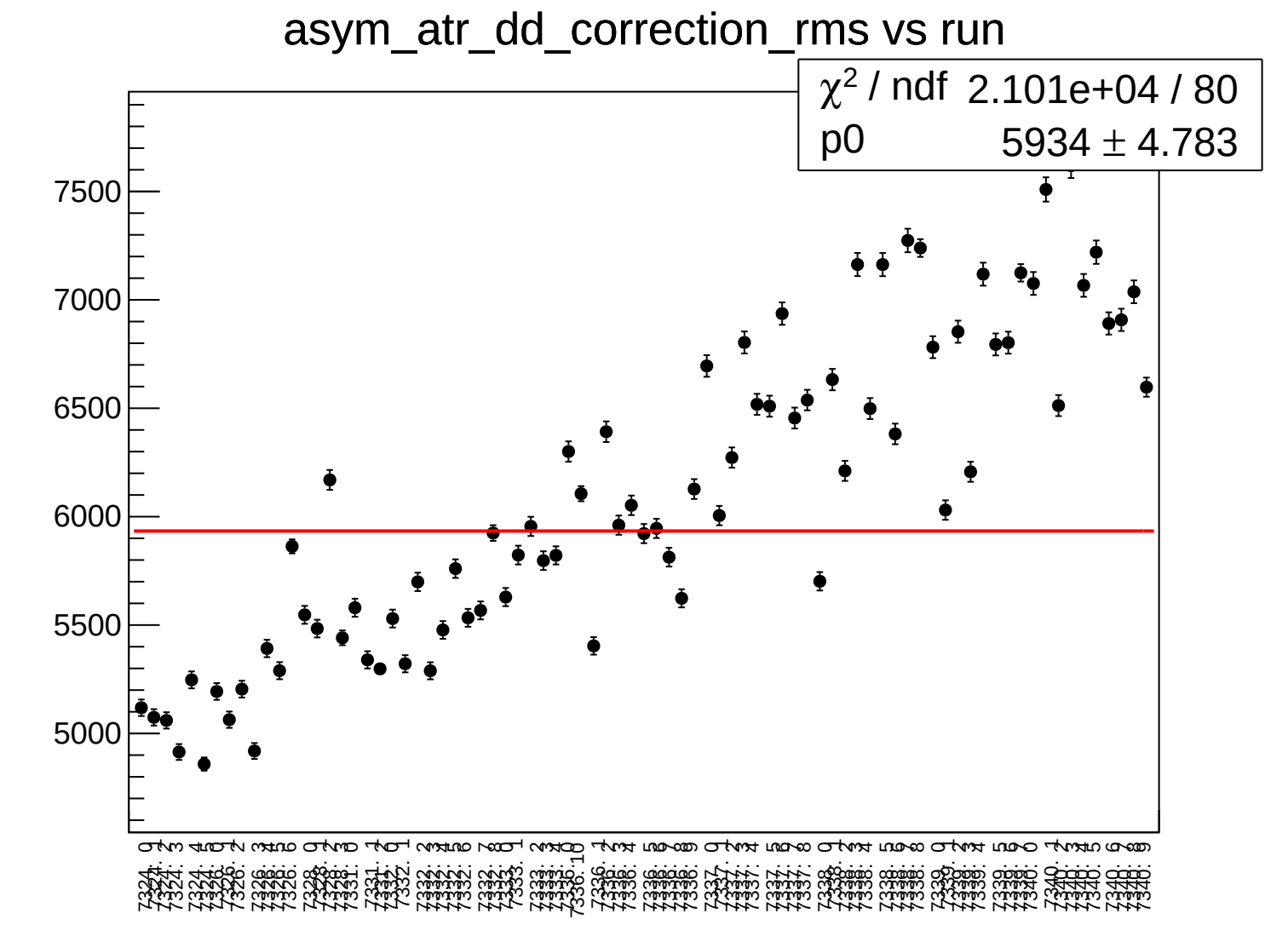

reg_asym_atr_dd_mean vs run
χ² / ndf 72.09 / 80
p0 −4207 ± 2124
pull
Entries 81
Mean −117.8
Std Dev 112.4

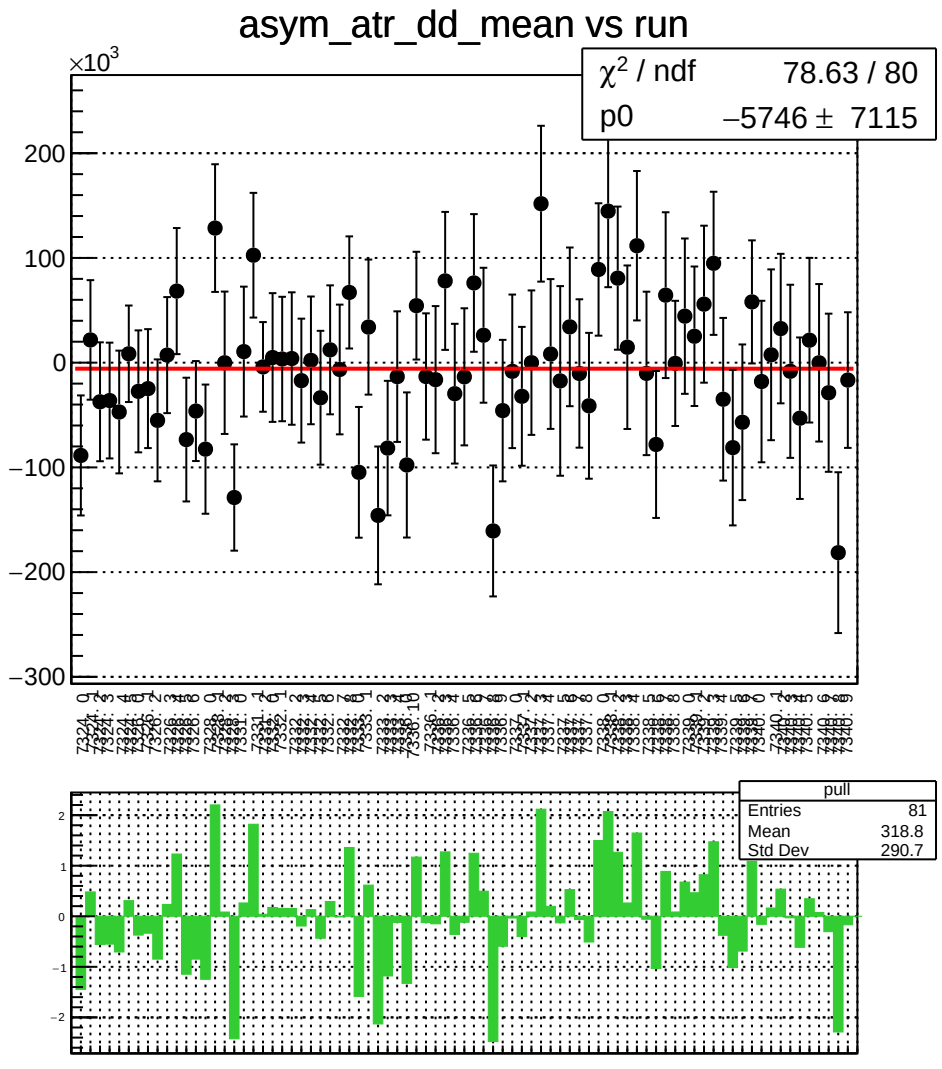

pull1D
Entries 81
Mean −0.003918
Std Dev 0.9434

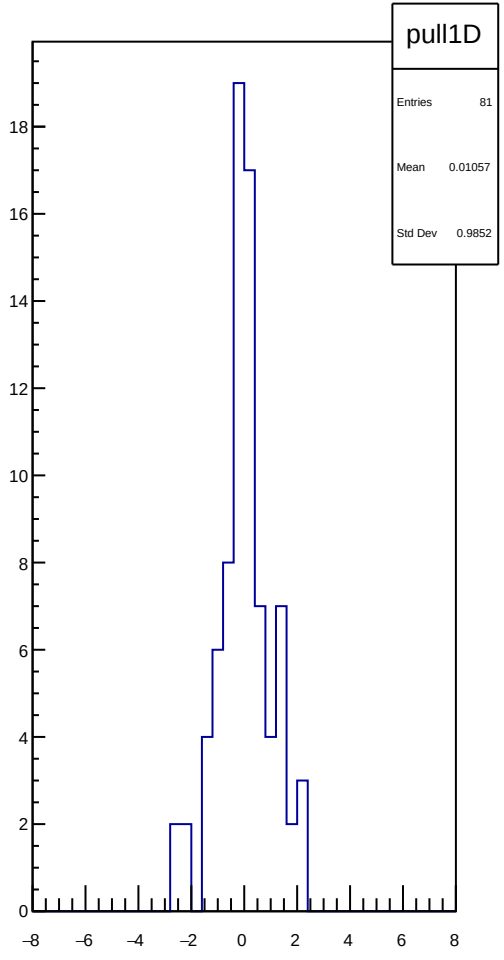

reg_asym_atr_dd_rms vs run
χ² / ndf 8125 / 80
p0 1871 ± 1.502
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

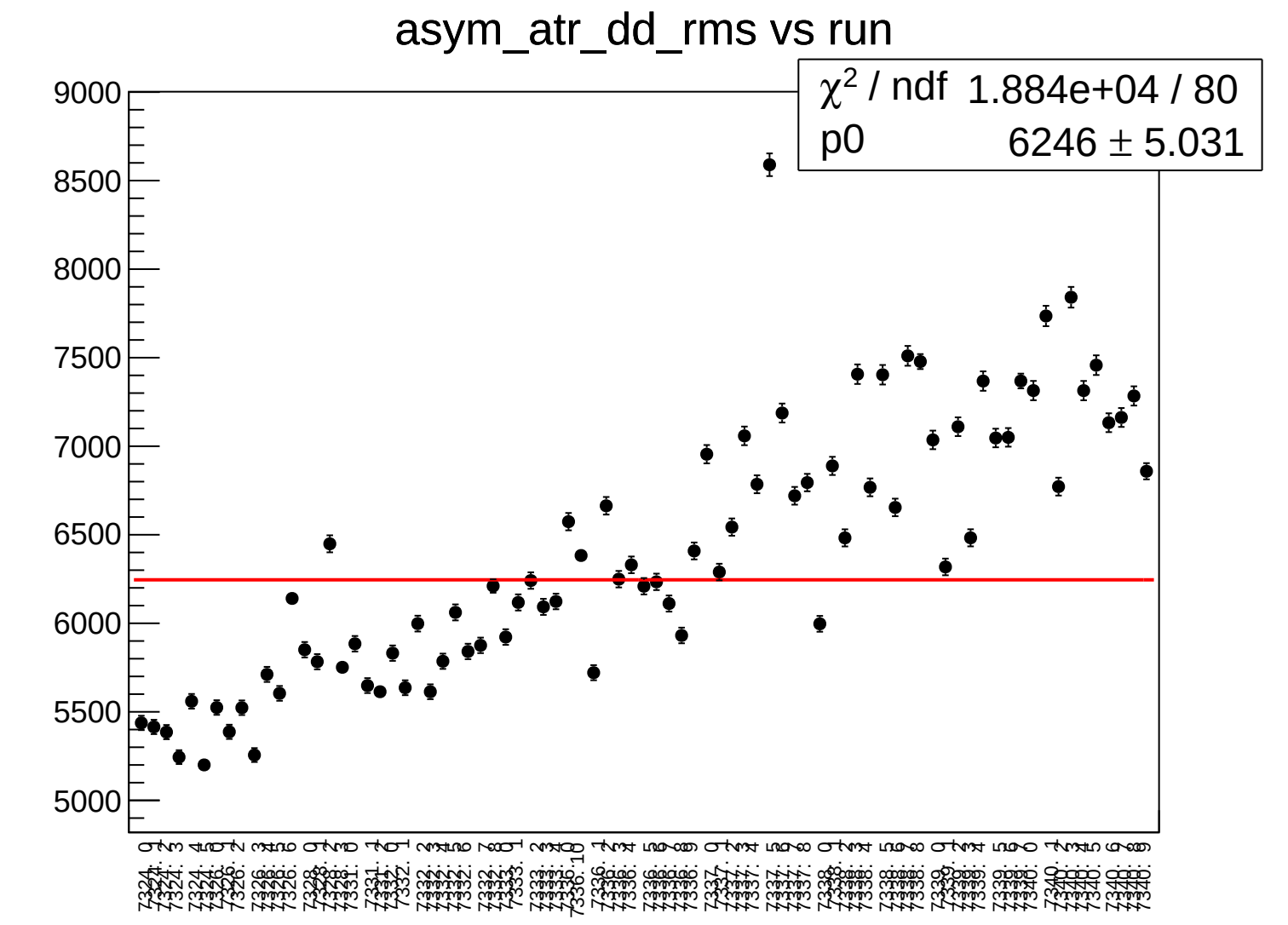

asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 82.53 / 80
p0 1377 ± 6764
pull
Entries 81
Mean 261.5
Std Dev 231.6

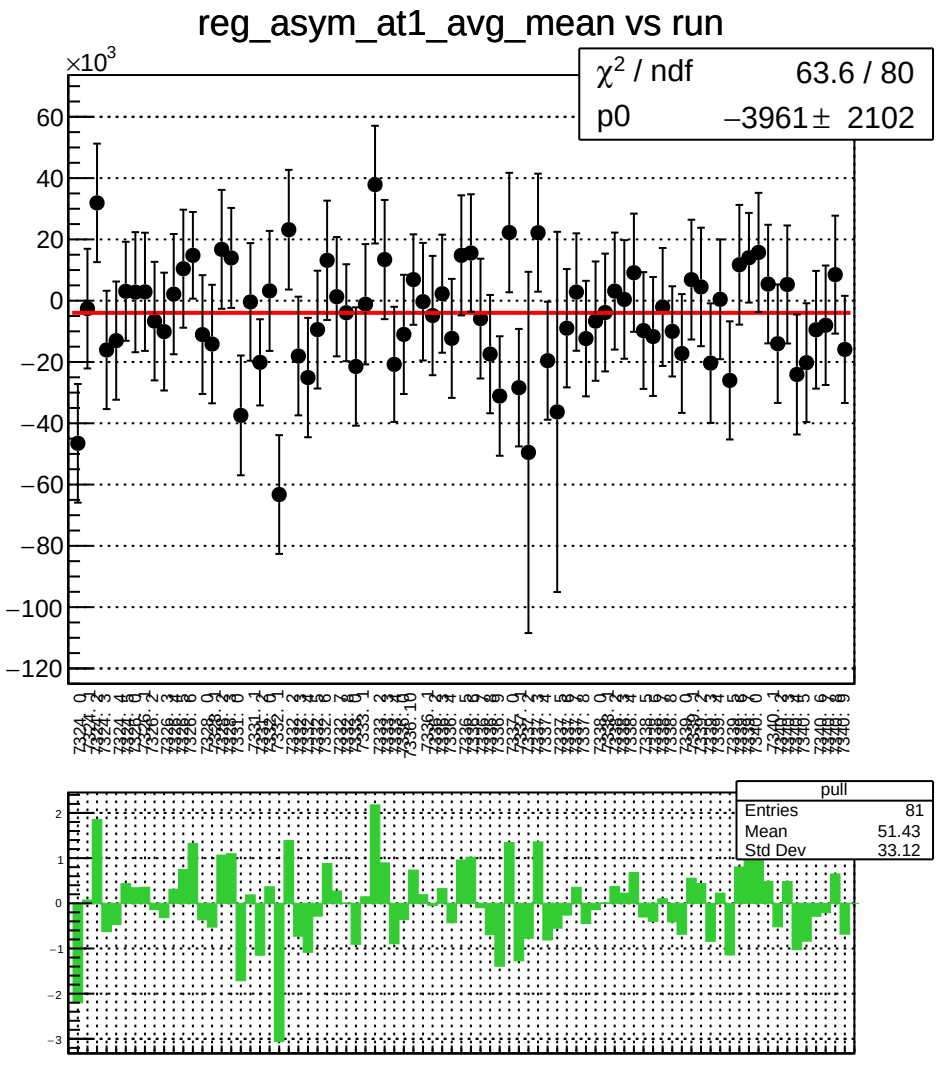

pull1D
Entries 81
Mean −0.01304
Std Dev 1.009

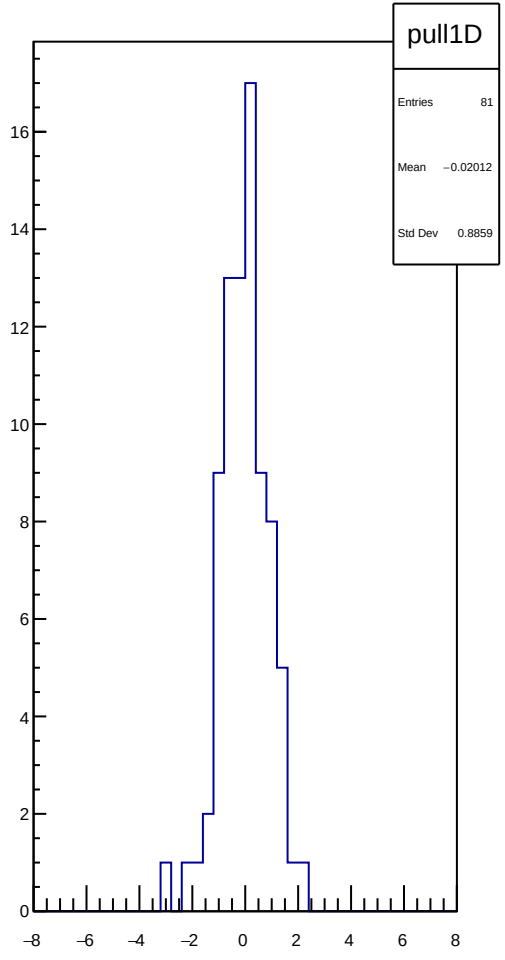

asym_atr_dd_correction_rms vs run
χ² / ndf 2.101e+04 / 80
p0 5934 ± 4.783
7500
7000
6500
6000
5500
5000

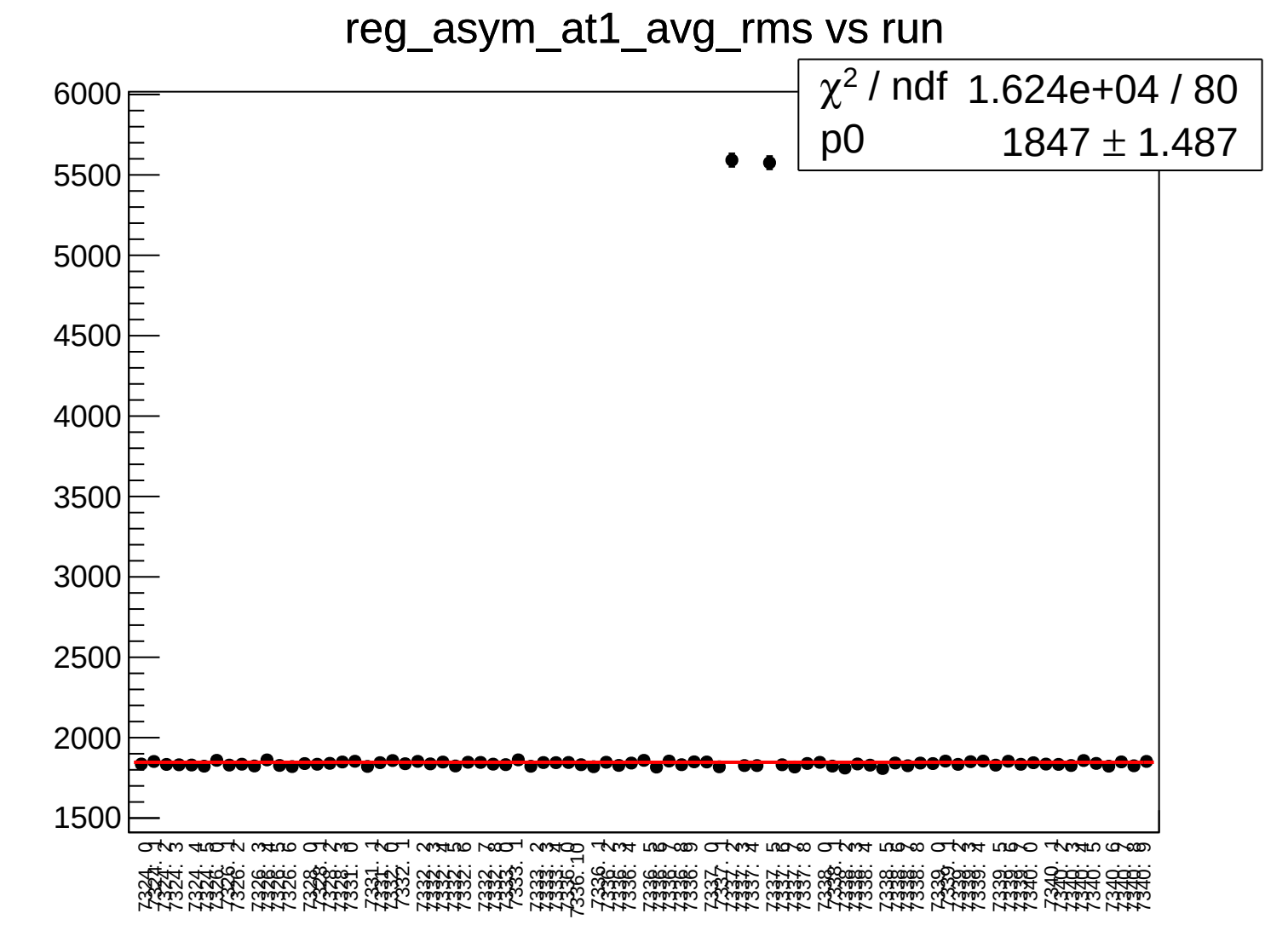

asym_atr_dd_mean vs run
×10^3
χ² / ndf 78.63 / 80
p0 −5746 ± 7115
200
100
0
−100
−200
−300
pull
Entries 81
Mean 318.8
Std Dev 290.7
2
1
0
−1
−2

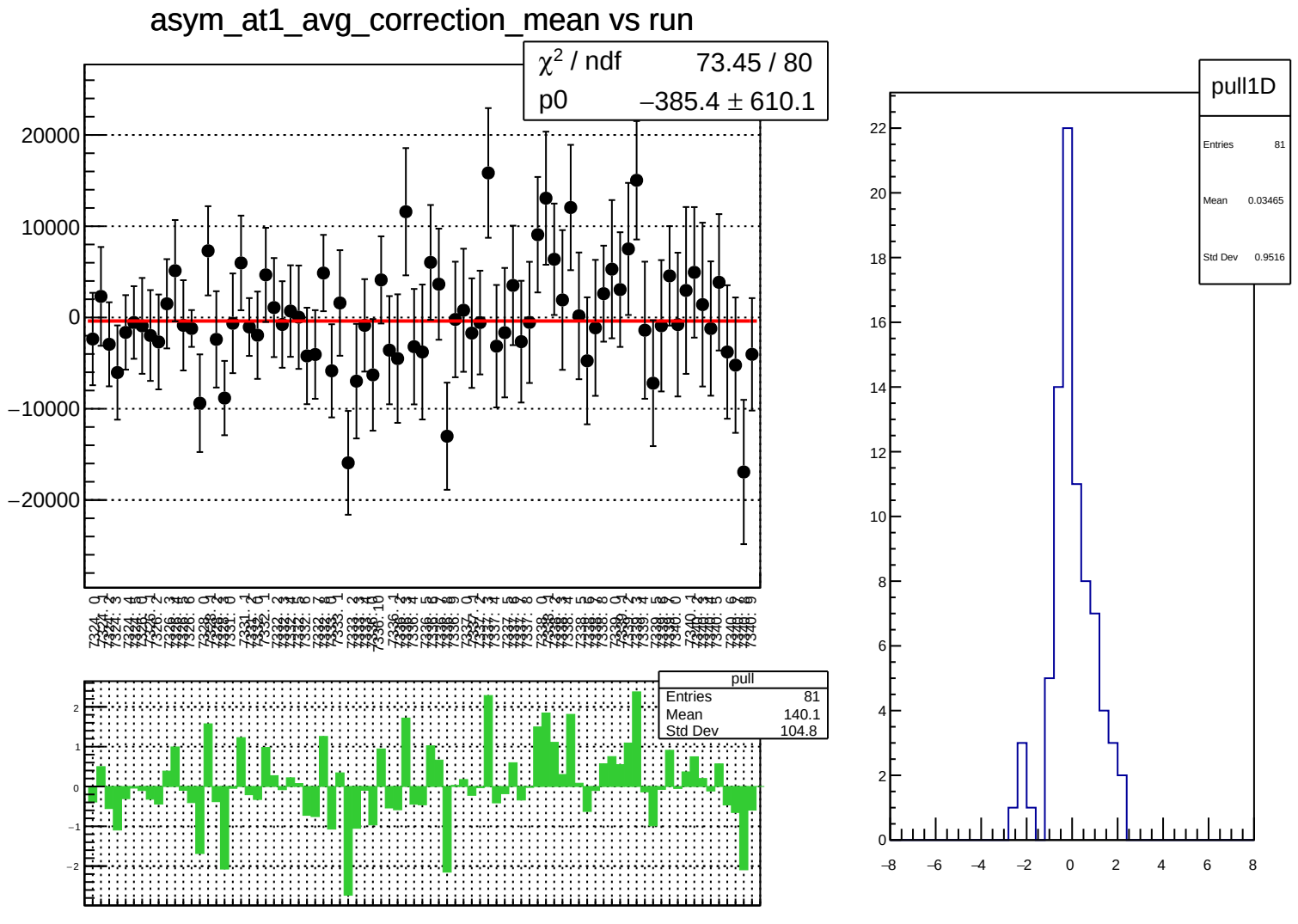

pull1D
Entries 81
Mean 0.01057
Std Dev 0.9852
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

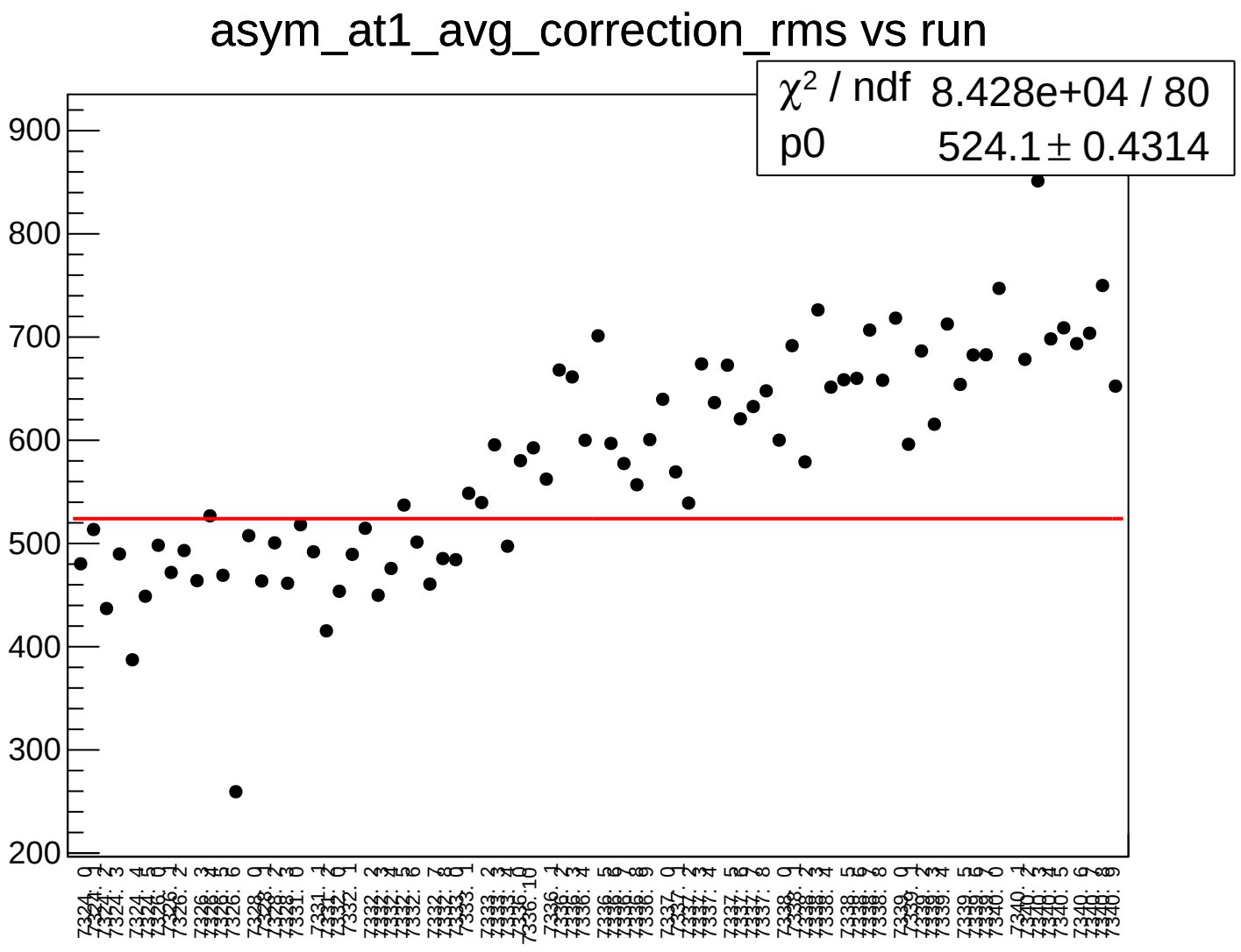

asym_atr_dd_rms vs run
χ^2 / ndf 1.884e+04 / 80
p0 6246 ± 5.031
9000
8500
8000
7500
7000
6500
6000
5500
5000

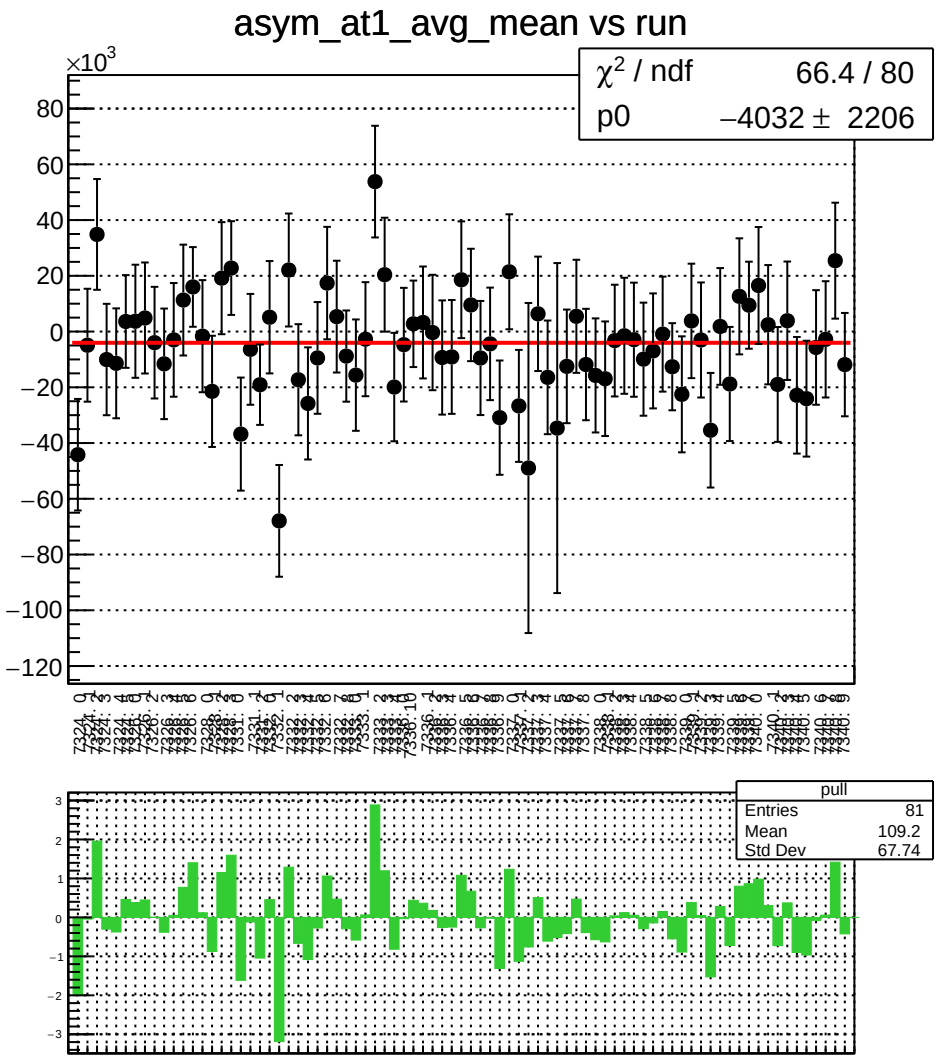

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 63.6 / 80
p0 −3961 ± 2102
pull
Entries 81
Mean 51.43
Std Dev 33.12

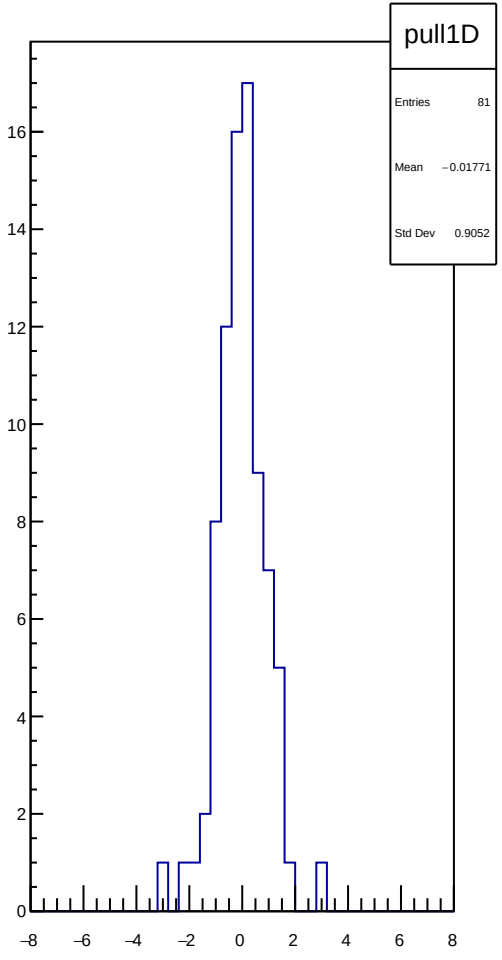

pull1D
Entries 81
Mean −0.02012
Std Dev 0.8859

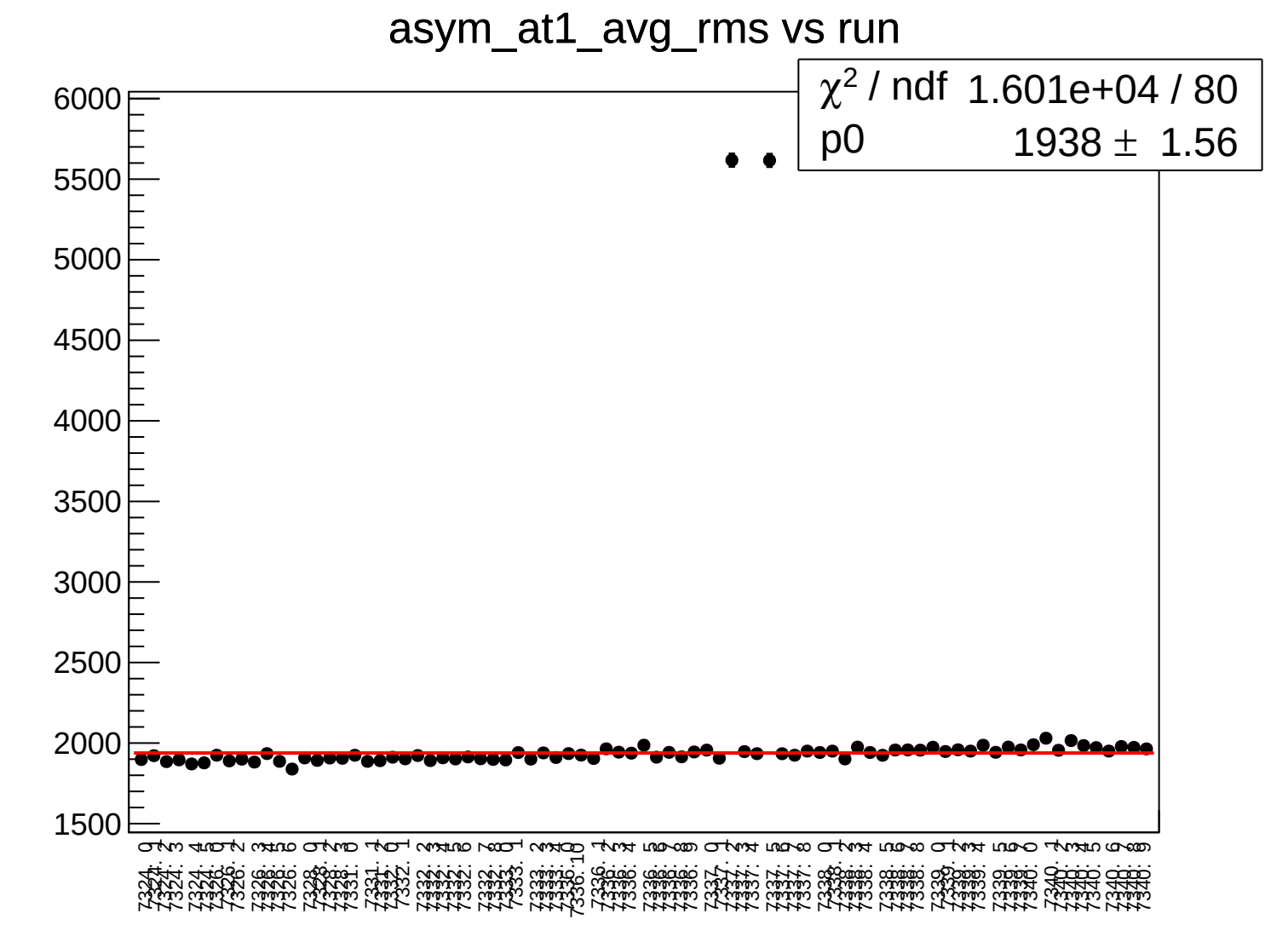

reg_asym_at1_avg_rms vs run
χ² / ndf 1.624e+04 / 80
p0 1847 ± 1.487
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

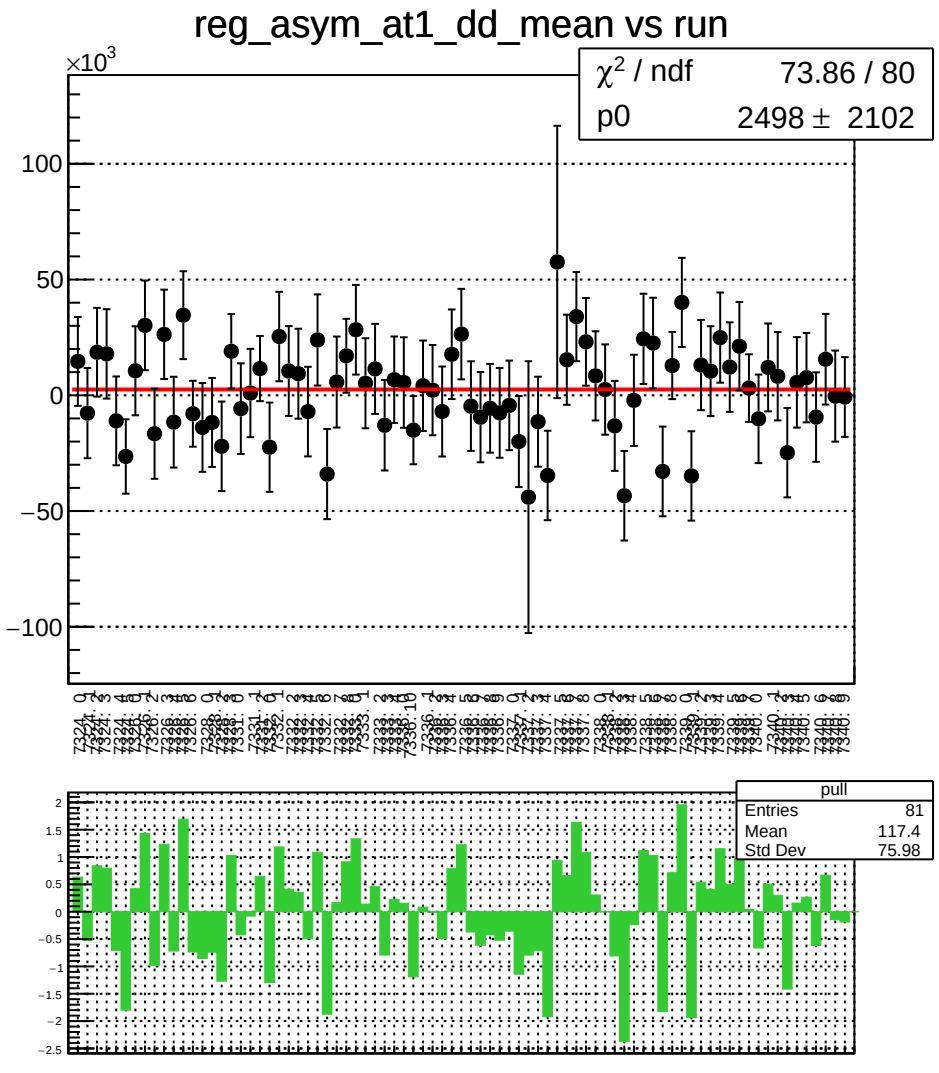

asym_at1_avg_correction_mean vs run
χ² / ndf 73.45 / 80
p0 −385.4 ± 610.1
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 140.1
Std Dev 104.8
pull1D
Entries 81
Mean 0.03465
Std Dev 0.9516

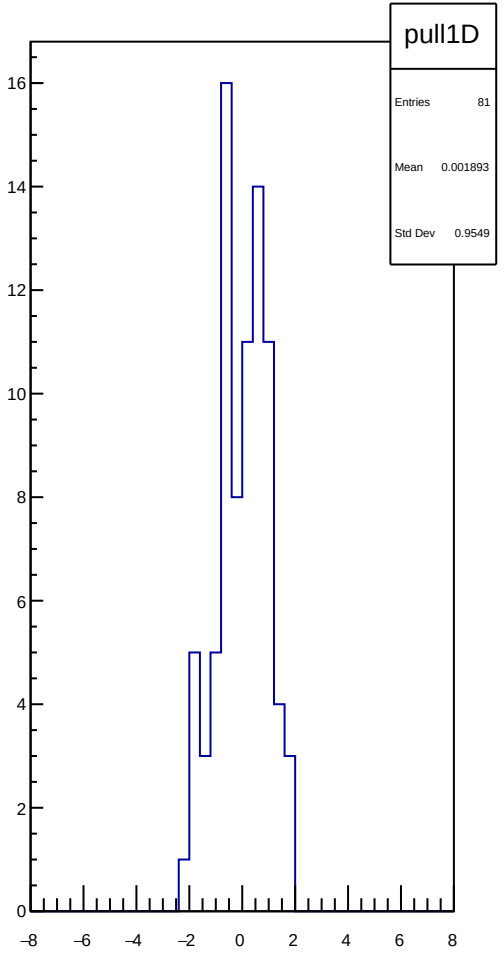

asym_at1_avg_correction_rms vs run
χ² / ndf 8.428e+04 / 80
p0 524.1 ± 0.4314
900
800
700
600
500
400
300
200

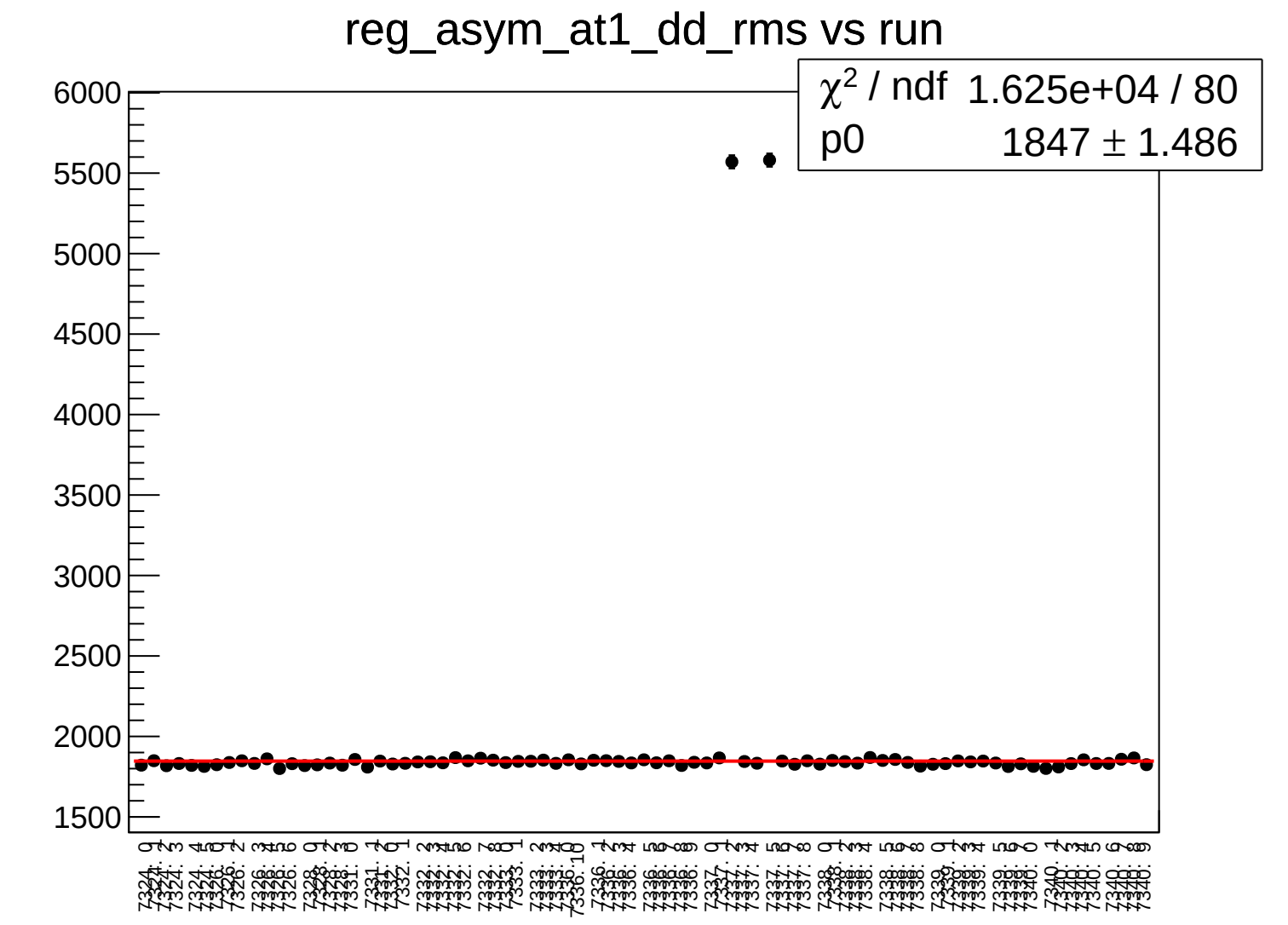

asym_at1_avg_mean vs run
×10^3
χ² / ndf 66.4 / 80
p0 −4032 ± 2206
pull
Entries 81
Mean 109.2
Std Dev 67.74

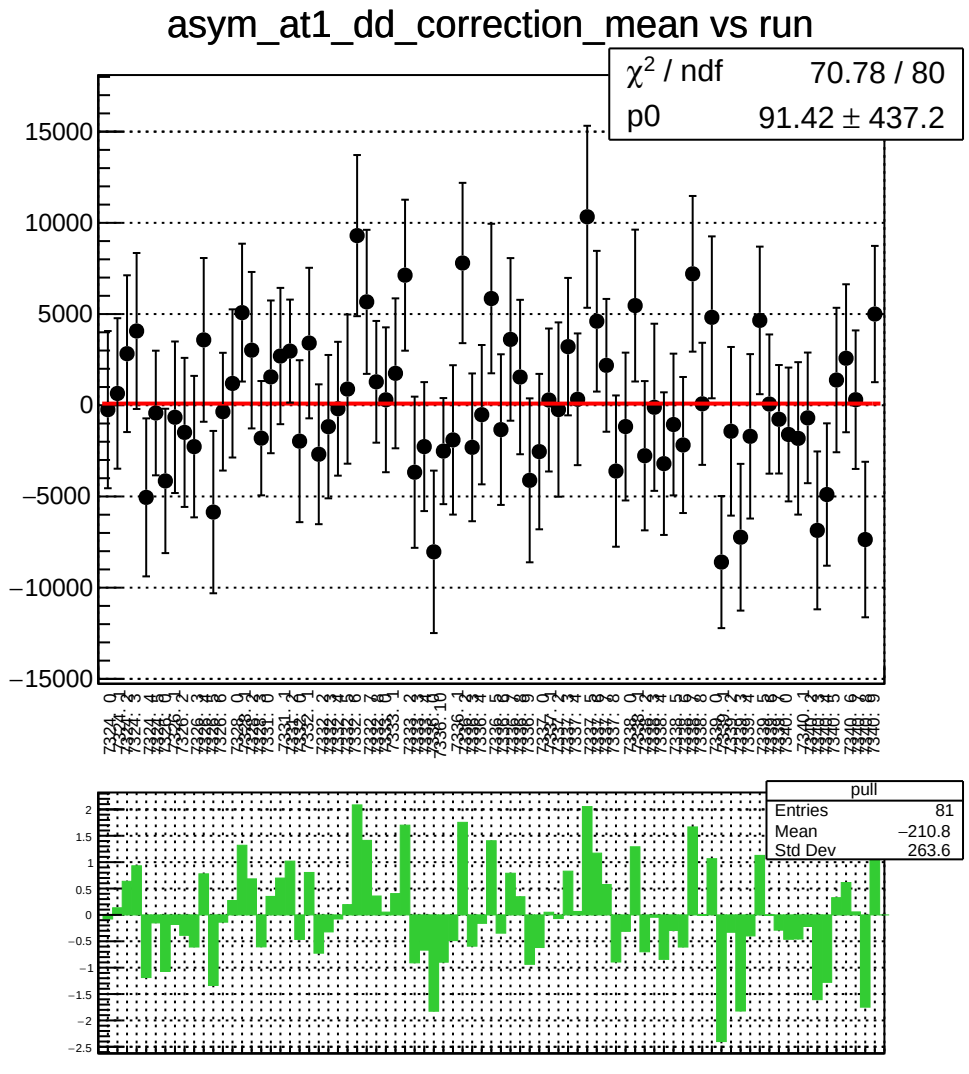

pull1D
Entries 81
Mean −0.01771
Std Dev 0.9052

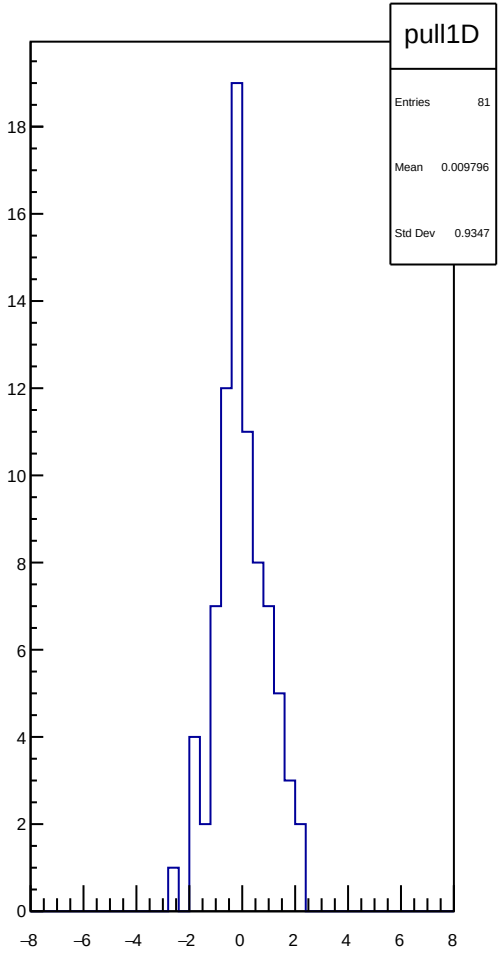

asym_at1_avg_rms vs run
χ² / ndf 1.601e+04 / 80
p0 1938 ± 1.56
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

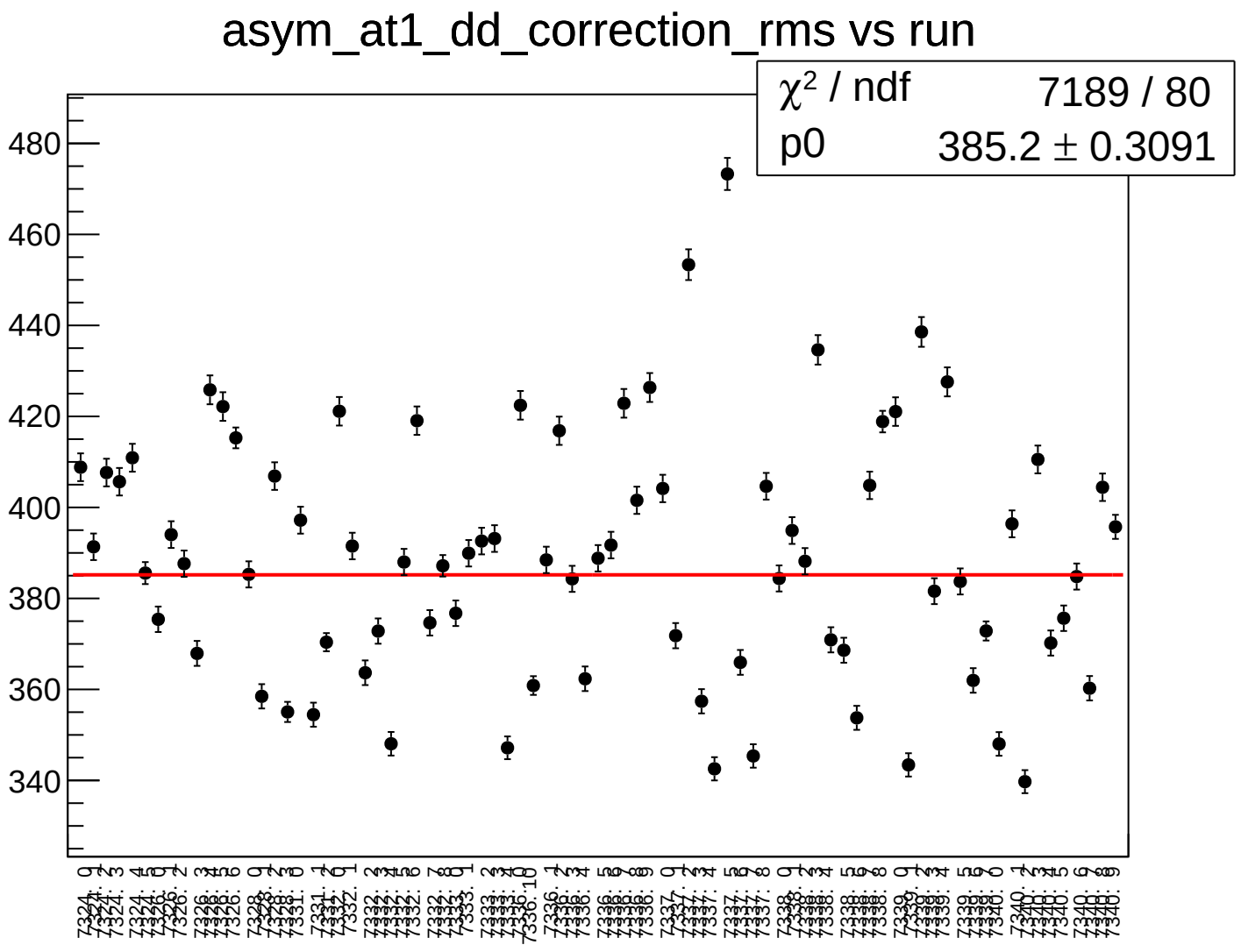

reg_asym_at1_dd_mean vs run
×10^3
χ² / ndf 73.86 / 80
p0 2498 ± 2102
100
50
0
−50
−100
pull
Entries 81
Mean 117.4
Std Dev 75.98
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

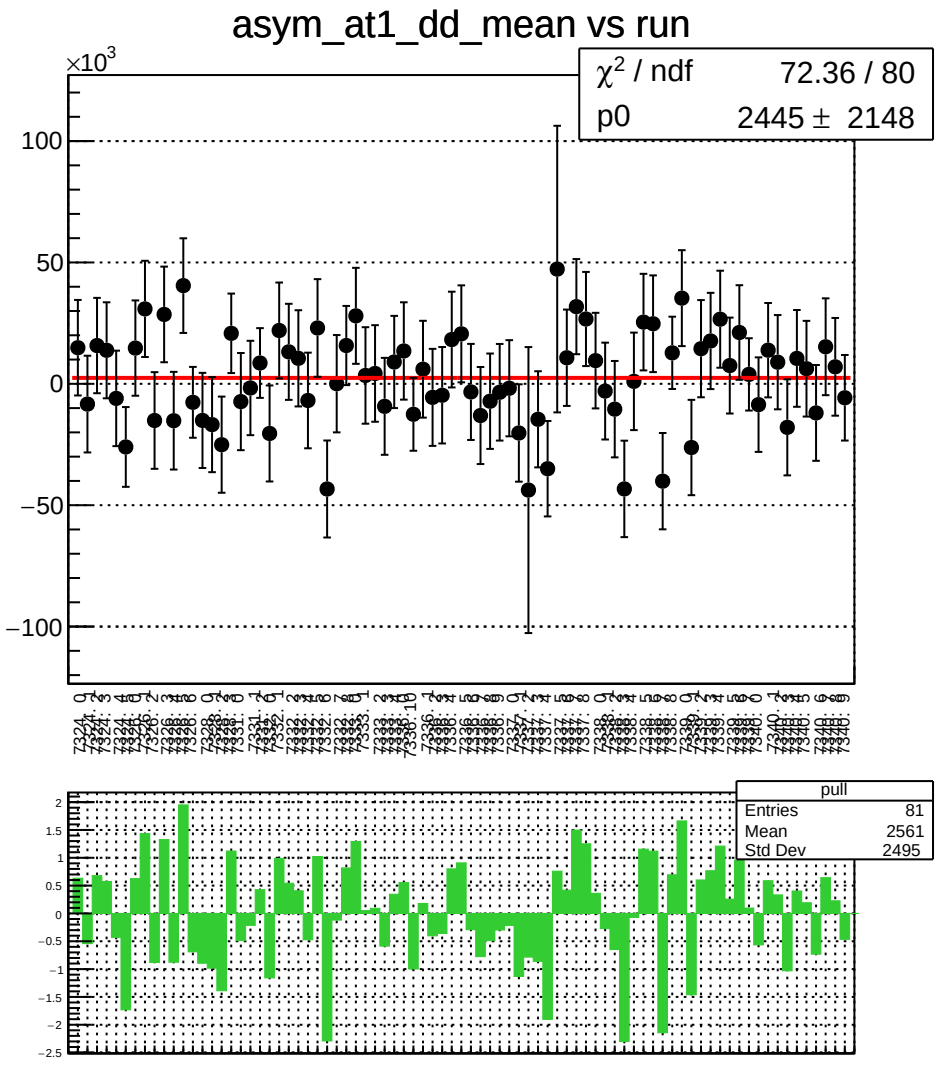

pull1D
Entries 81
Mean 0.001893
Std Dev 0.9549
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

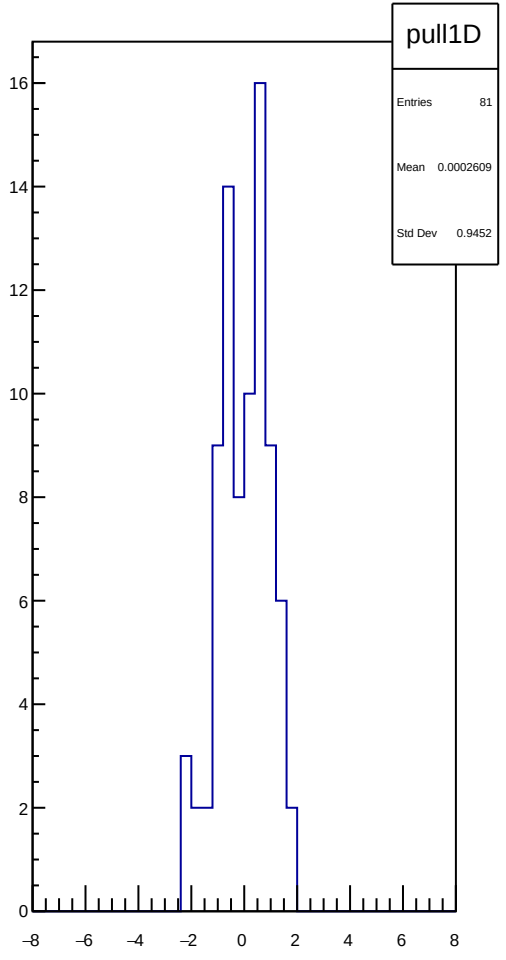

reg_asym_at1_dd_rms vs run
χ² / ndf 1.625e+04 / 80
p0 1847 ± 1.486
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

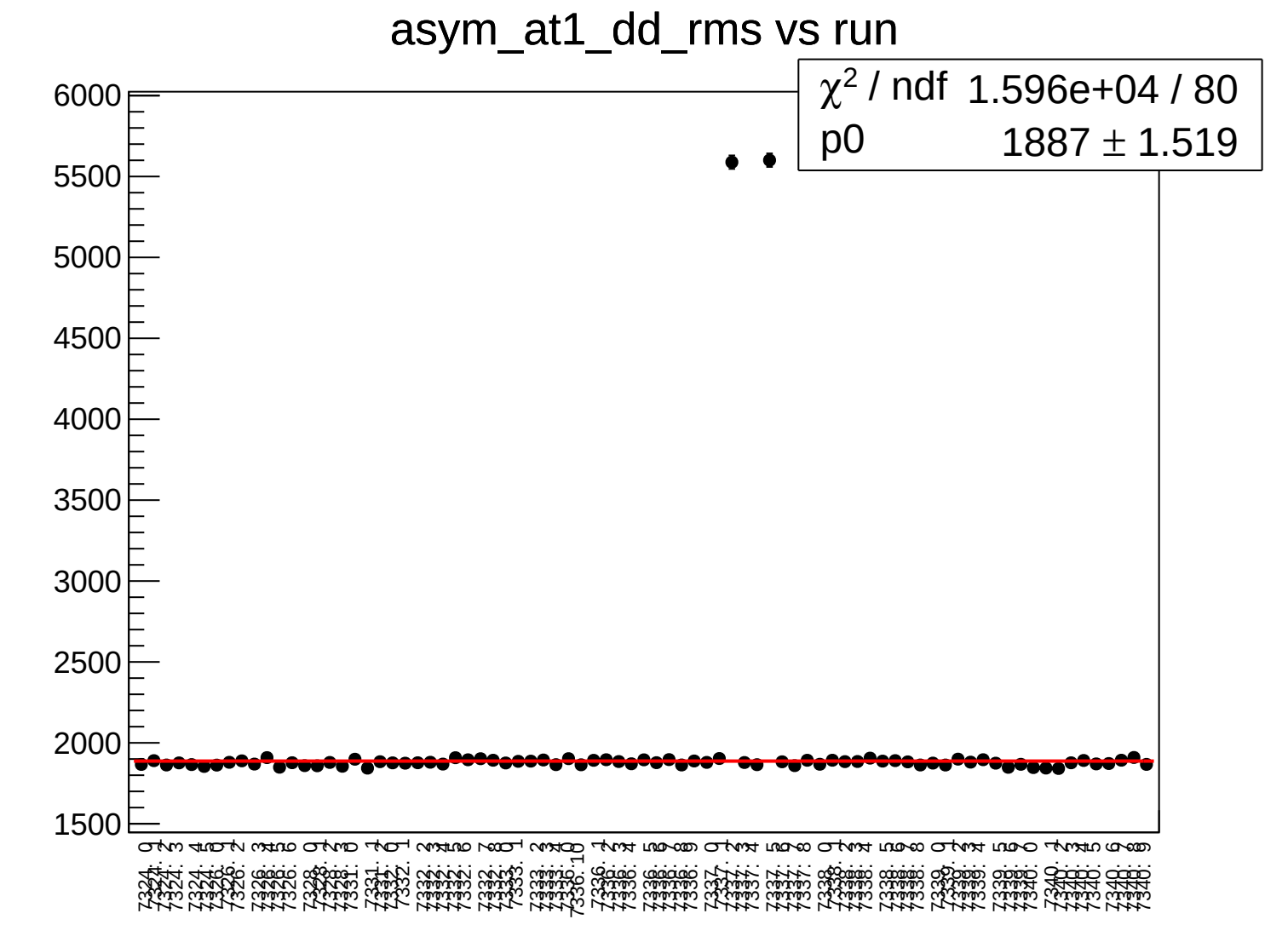

asym_at1_dd_correction_mean vs run
χ² / ndf 70.78 / 80
p0 91.42 ± 437.2
pull
Entries 81
Mean −210.8
Std Dev 263.6

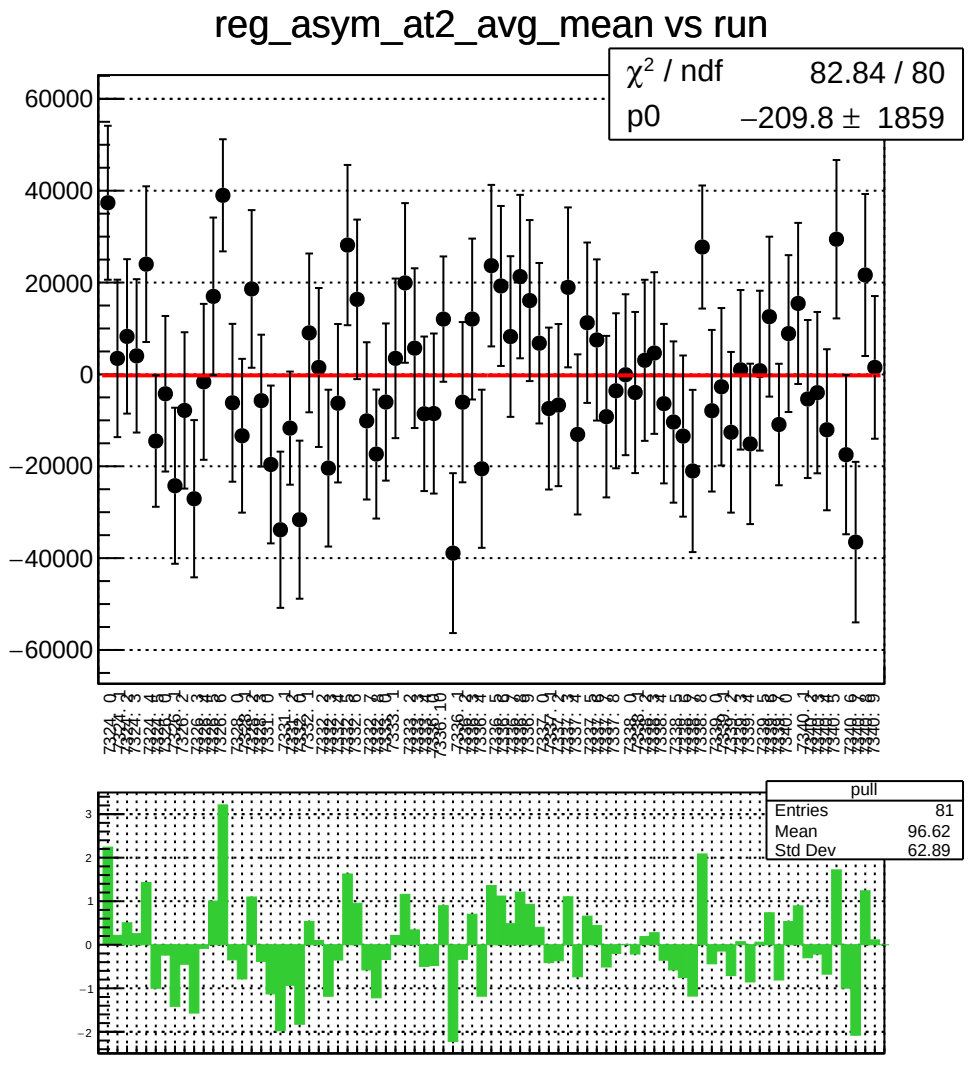

pull1D
Entries 81
Mean 0.009796
Std Dev 0.9347

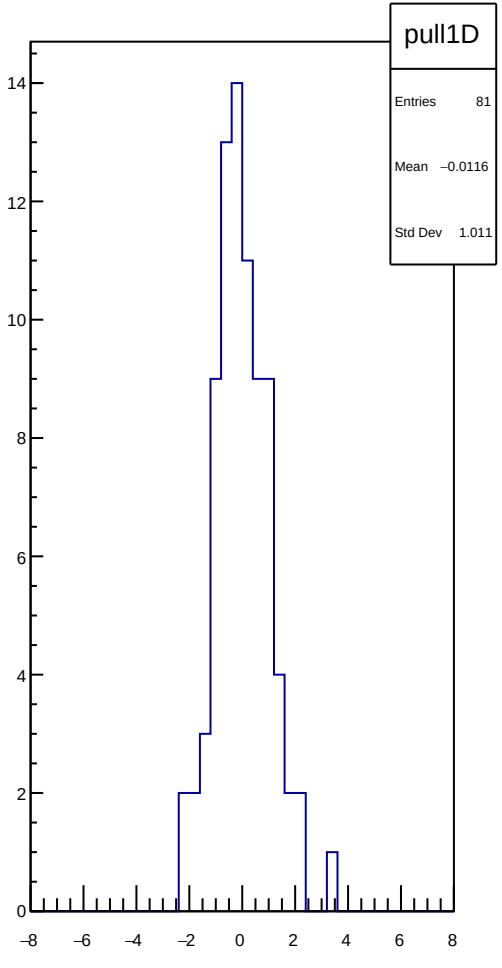

asym_at1_dd_correction_rms vs run
χ² / ndf 7189 / 80
p0 385.2 ± 0.3091
480
460
440
420
400
380
360
340

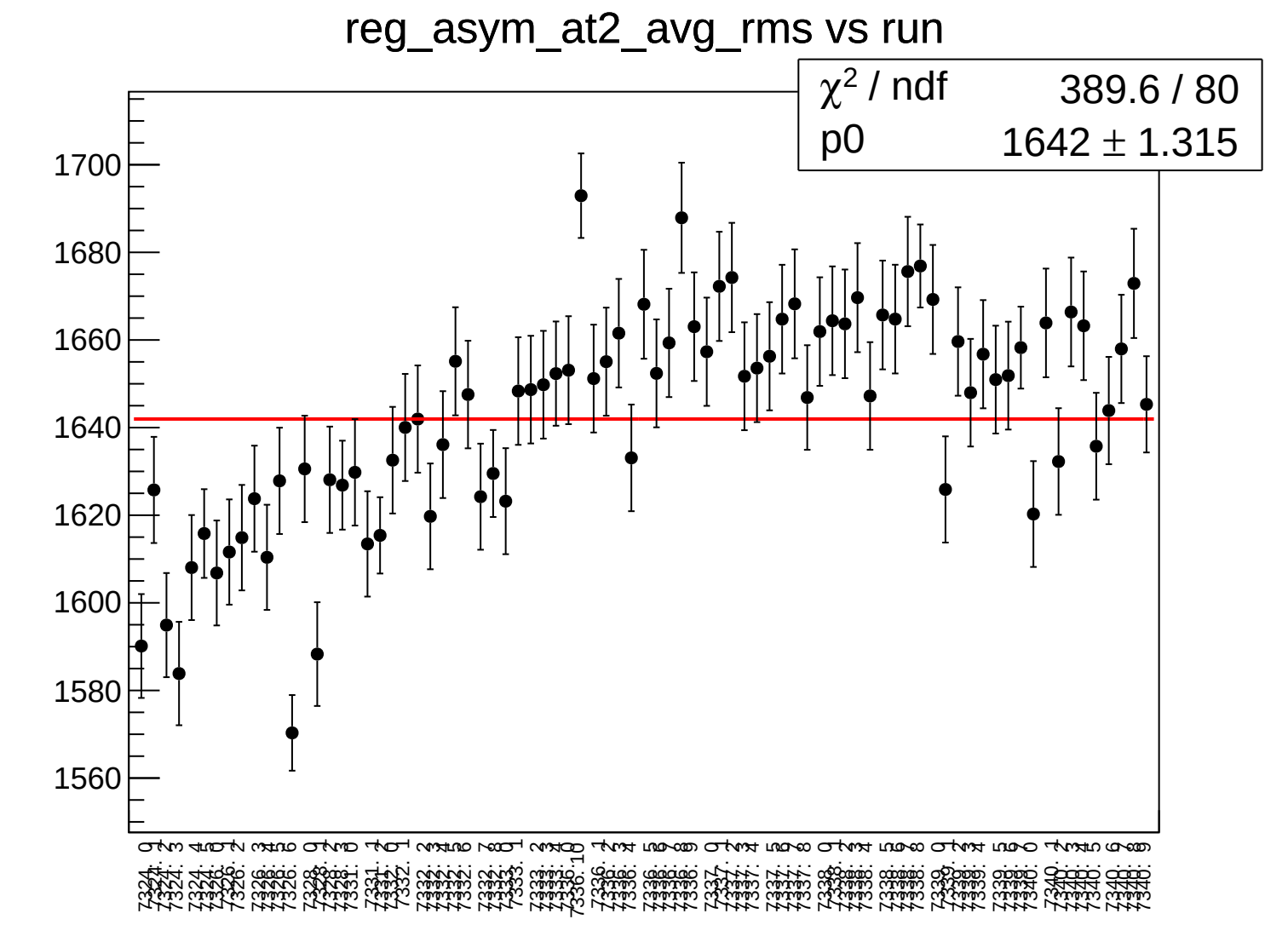

asym_at1_dd_mean vs run
×10^3
χ² / ndf 72.36 / 80
p0 2445 ± 2148
100
50
0
−50
−100
pull
Entries 81
Mean 2561
Std Dev 2495
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

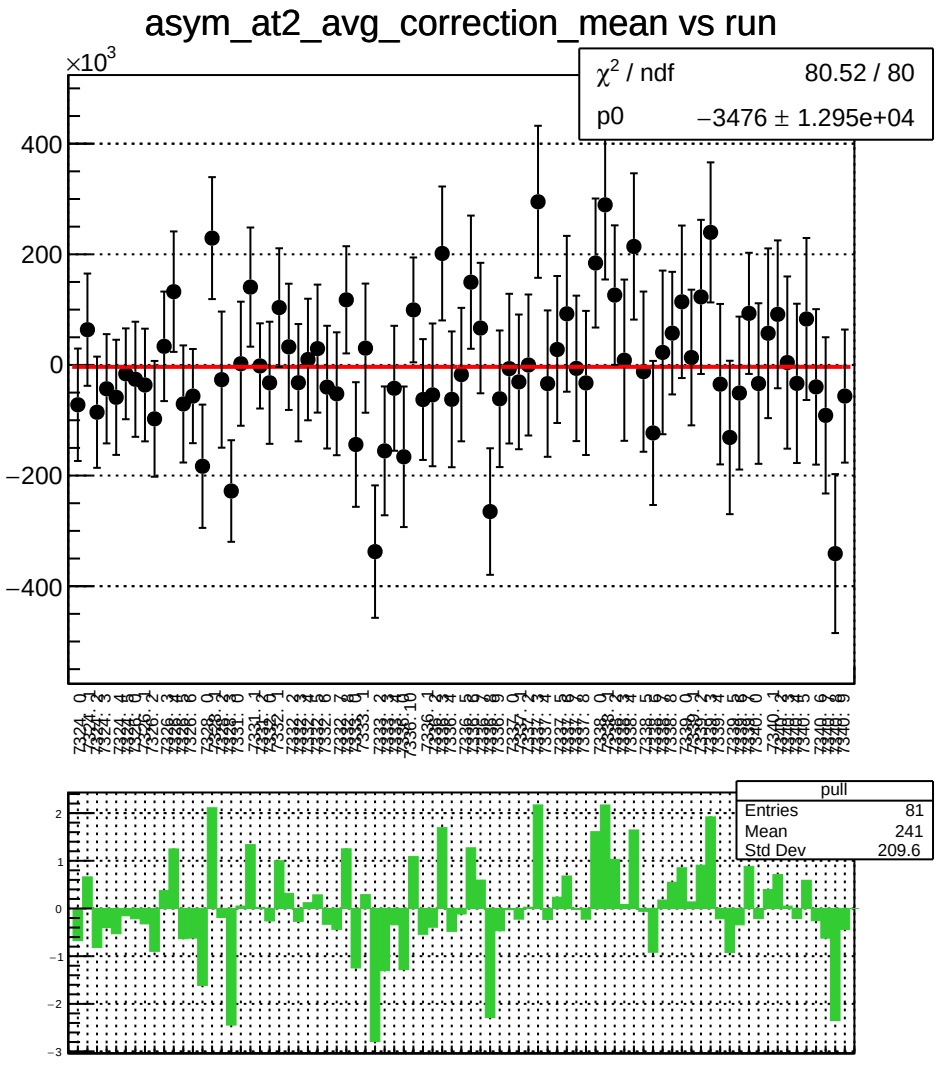

pull1D
Entries 81
Mean 0.0002609
Std Dev 0.9452
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

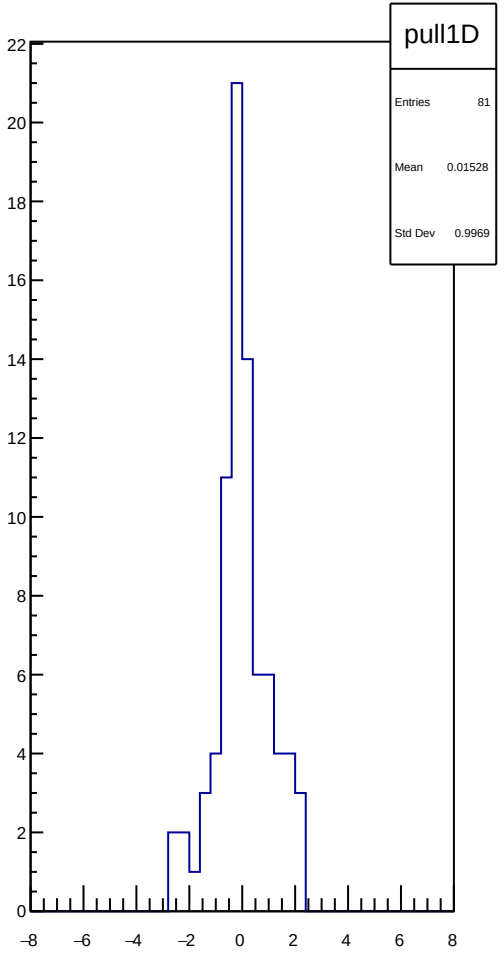

asym_at1_dd_rms vs run
χ² / ndf 1.596e+04 / 80
p0 1887 ± 1.519
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

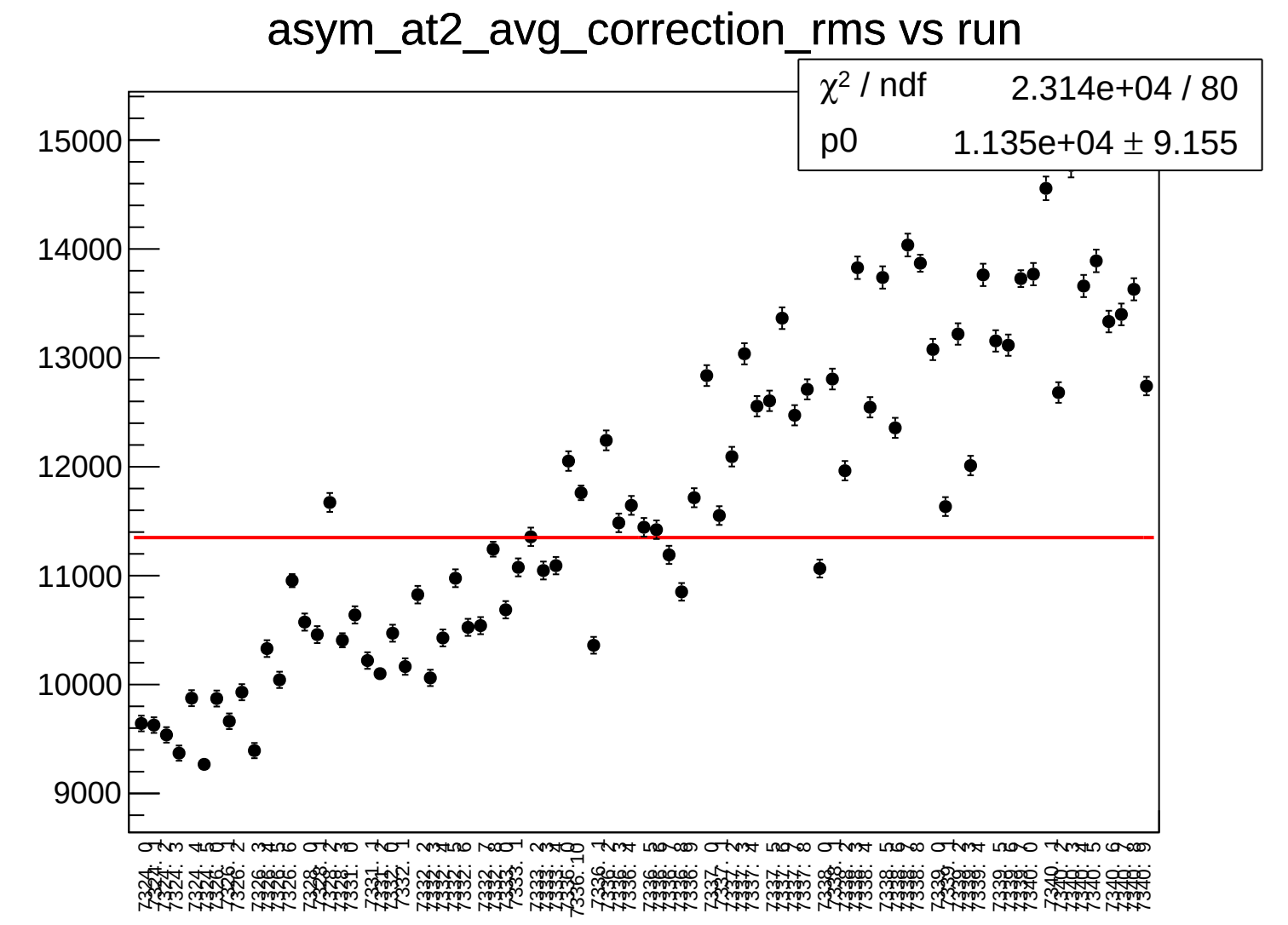

reg_asym_at2_avg_mean vs run
χ² / ndf 82.84 / 80
p0 −209.8 ± 1859
pull
Entries 81
Mean 96.62
Std Dev 62.89

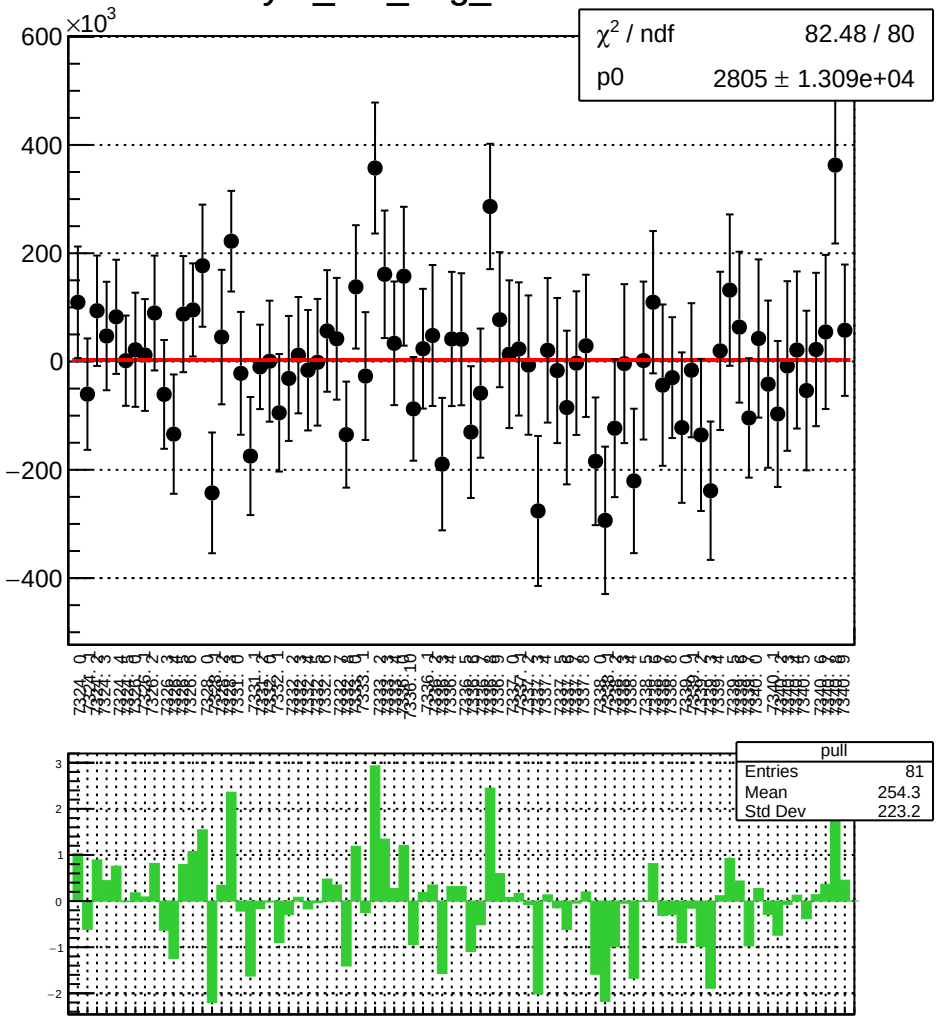

pull1D
Entries 81
Mean −0.0116
Std Dev 1.011

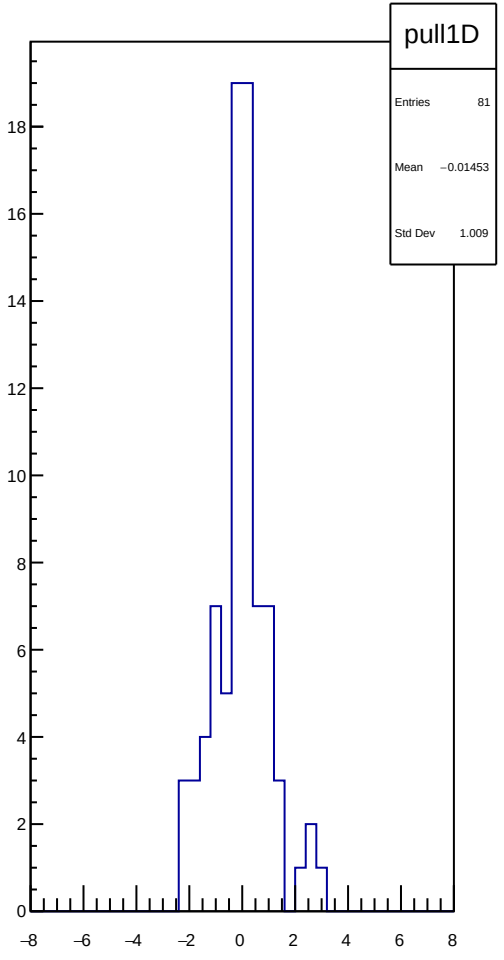

reg_asym_at2_avg_rms vs run
χ^2 / ndf 389.6 / 80
p0 1642 ± 1.315
1700
1680
1660
1640
1620
1600
1580
1560

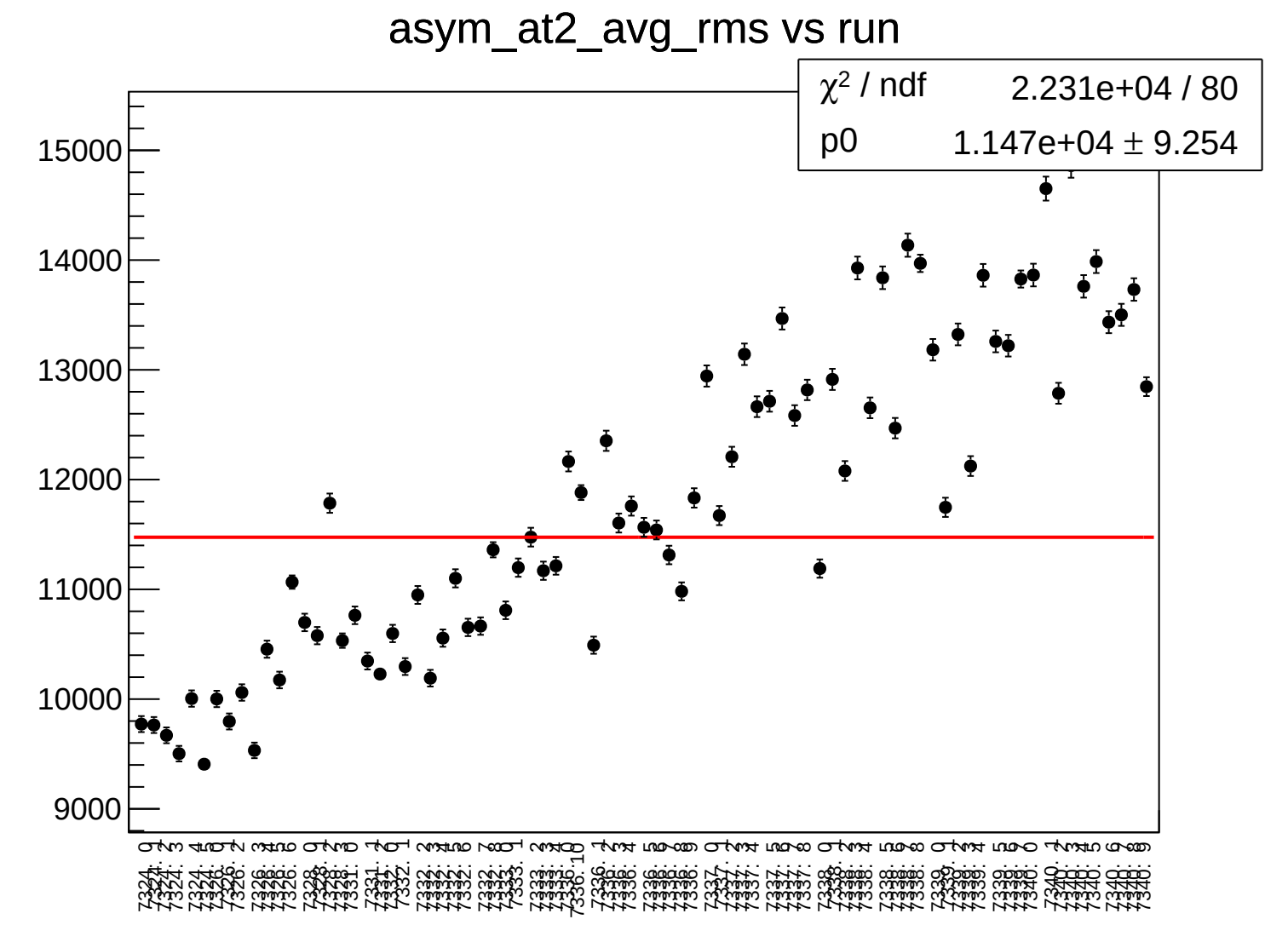

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 80.52 / 80
p0 −3476 ± 1.295e+04
400
200
0
−200
−400
pull
Entries 81
Mean 241
Std Dev 209.6
2
1
0
−1
−2
−3

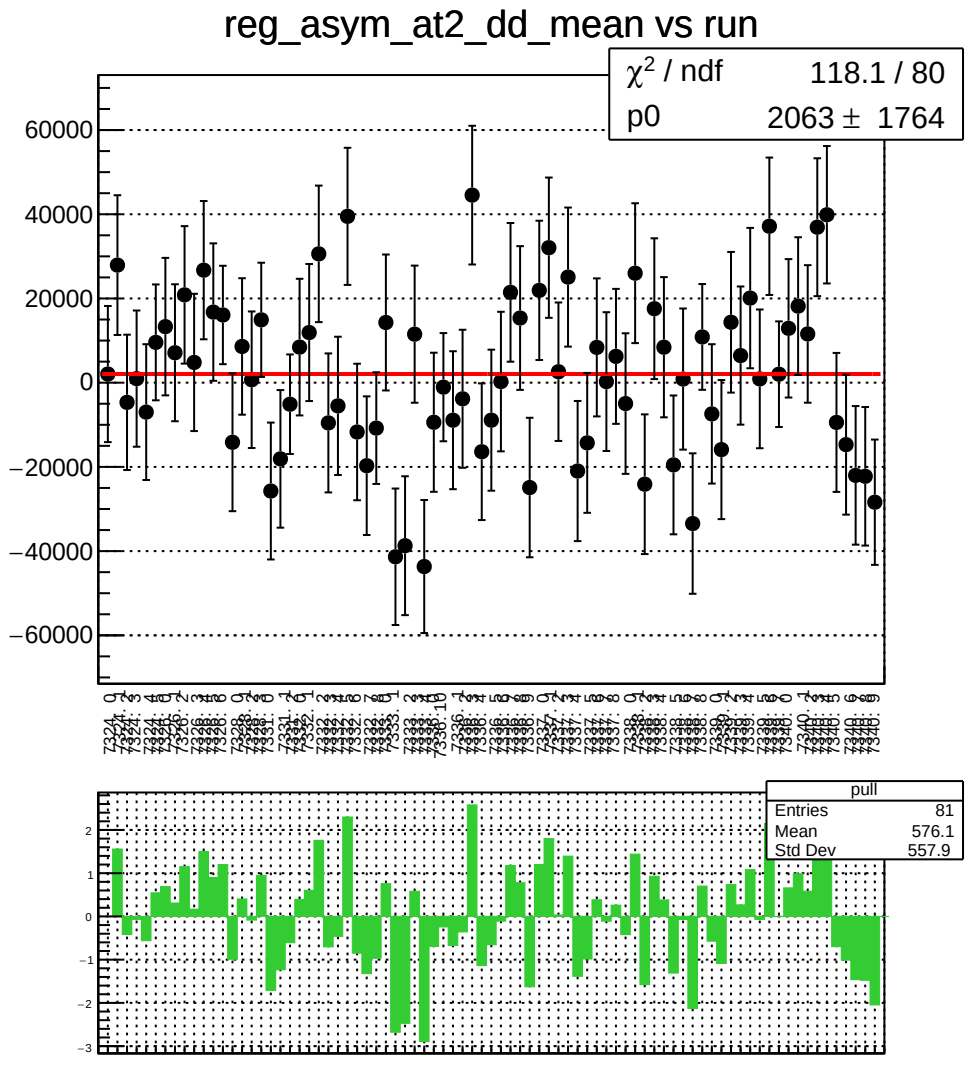

pull1D
Entries 81
Mean 0.01528
Std Dev 0.9969
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

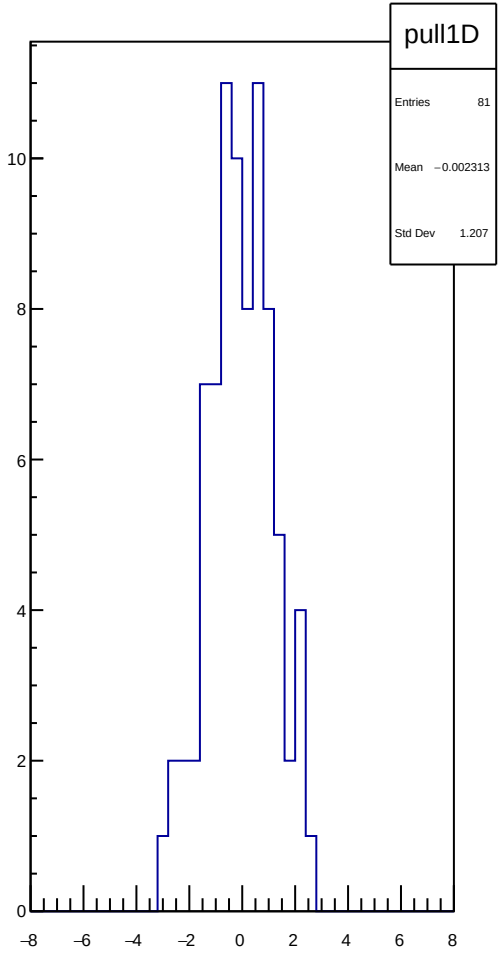

asym_at2_avg_correction_rms vs run
χ² / ndf 2.314e+04 / 80
p0 1.135e+04 ± 9.155
15000
14000
13000
12000
11000
10000
9000

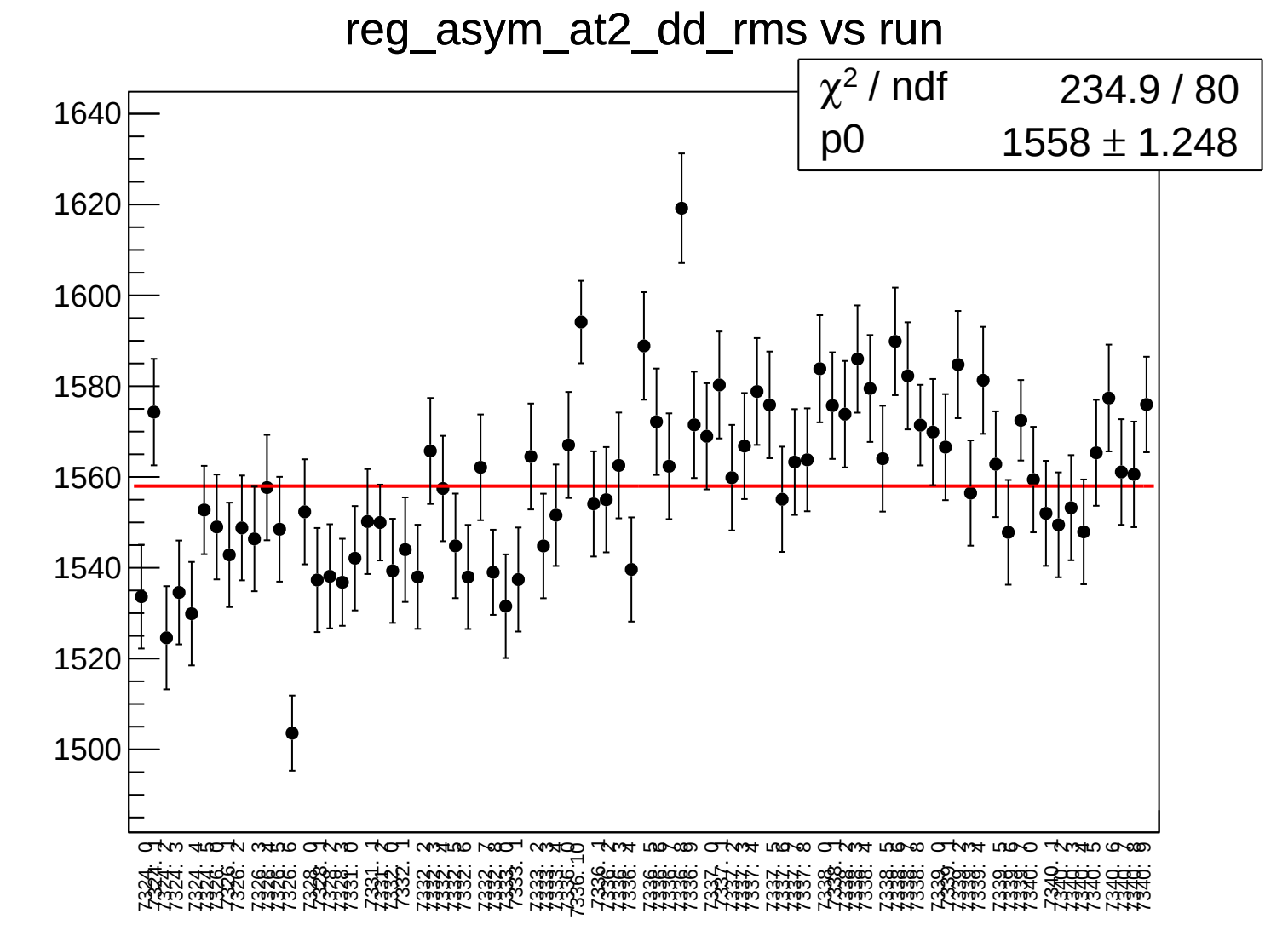

asym_at2_avg_mean vs run
χ² / ndf 82.48 / 80
p0 2805 ± 1.309e+04
×10³
pull
Entries 81
Mean 254.3
Std Dev 223.2

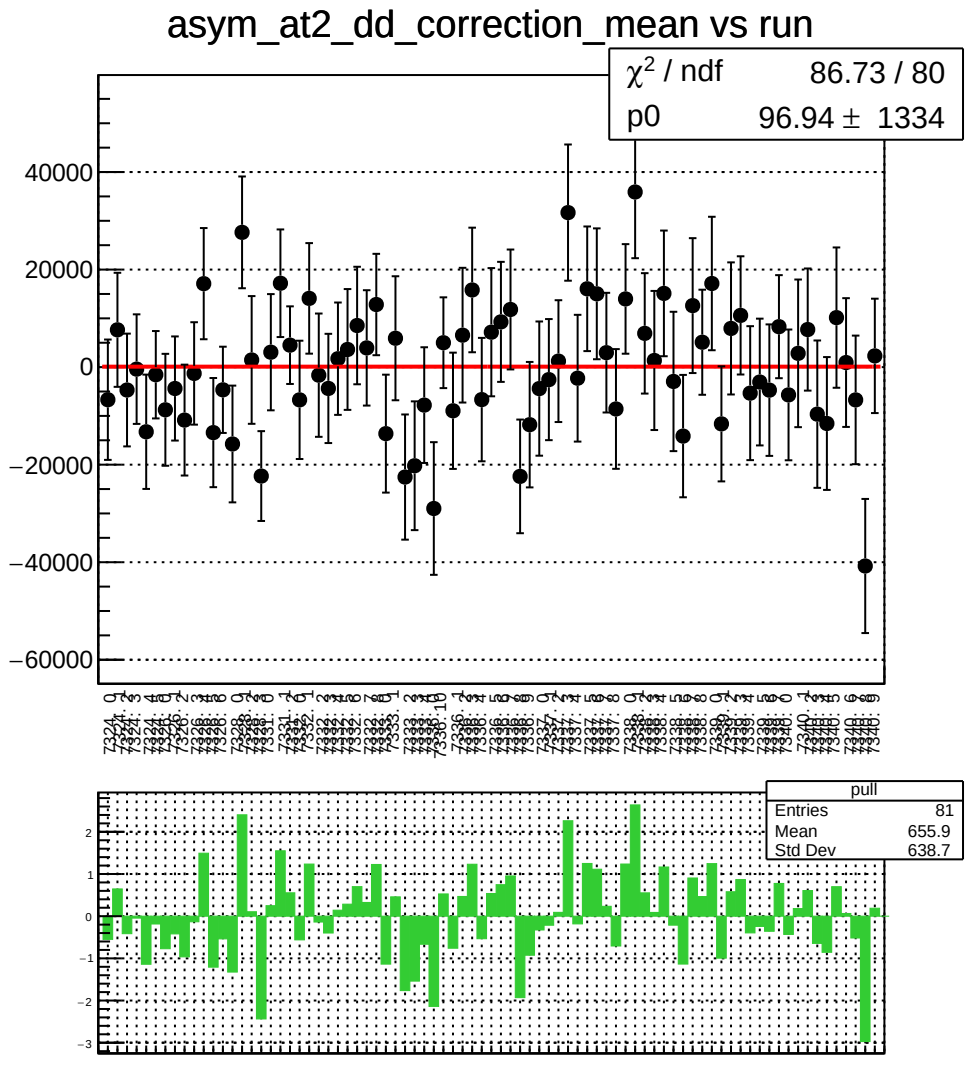

pull1D
Entries 81
Mean −0.01453
Std Dev 1.009

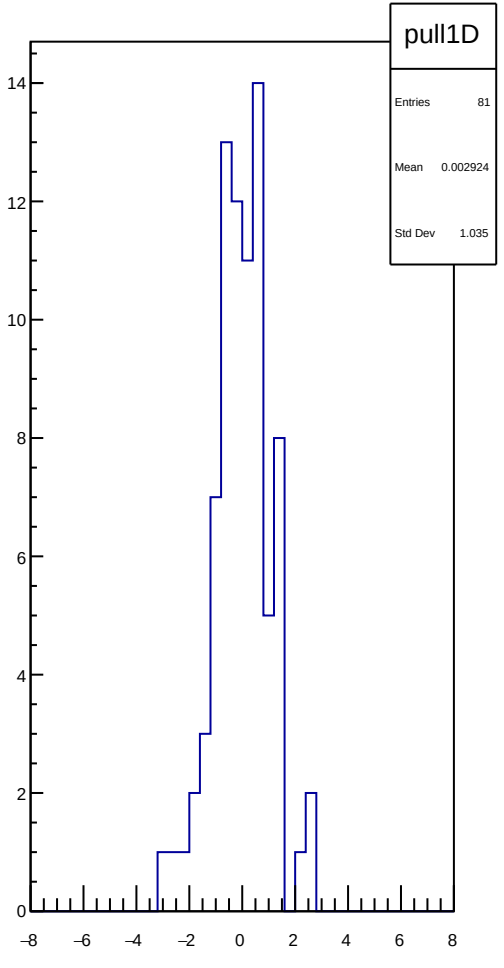

asym_at2_avg_rms vs run
χ² / ndf 2.231e+04 / 80
p0 1.147e+04 ± 9.254
15000
14000
13000
12000
11000
10000
9000

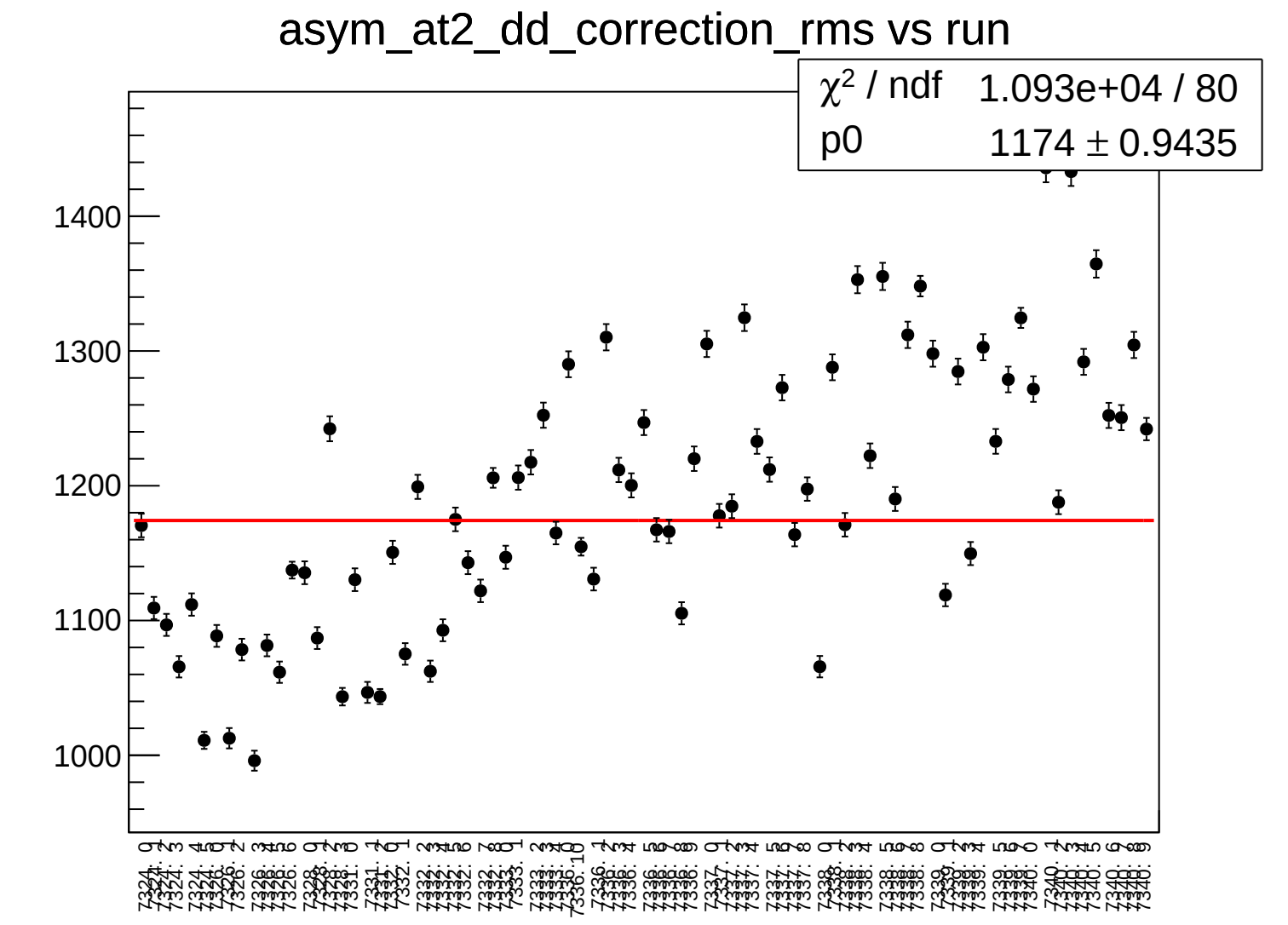

reg_asym_at2_dd_mean vs run
χ² / ndf 118.1 / 80
p0 2063 ± 1764
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 576.1
Std Dev 557.9
2
1
0
−1
−2
−3

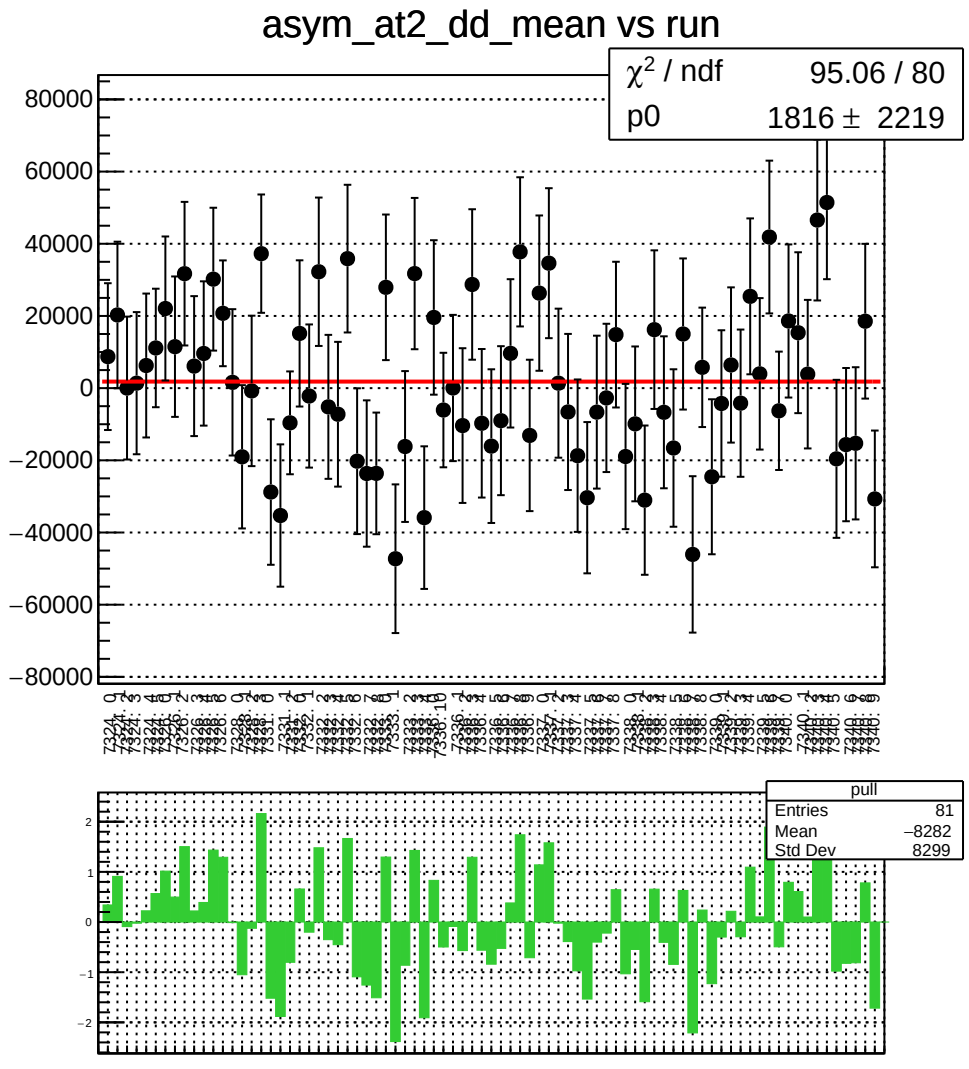

pull1D
Entries 81
Mean −0.002313
Std Dev 1.207
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

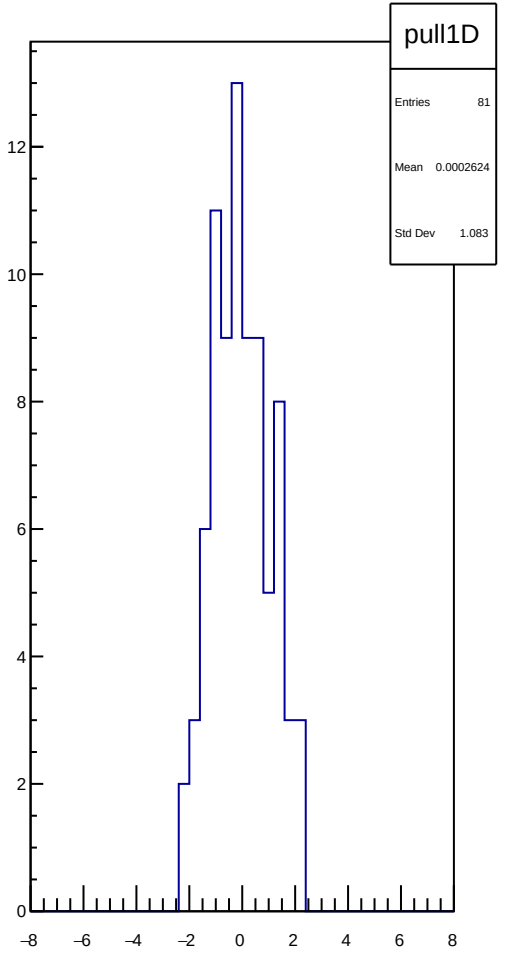

reg_asym_at2_dd_rms vs run
χ^2 / ndf 234.9 / 80
p0 1558 ± 1.248
1640
1620
1600
1580
1560
1540
1520
1500

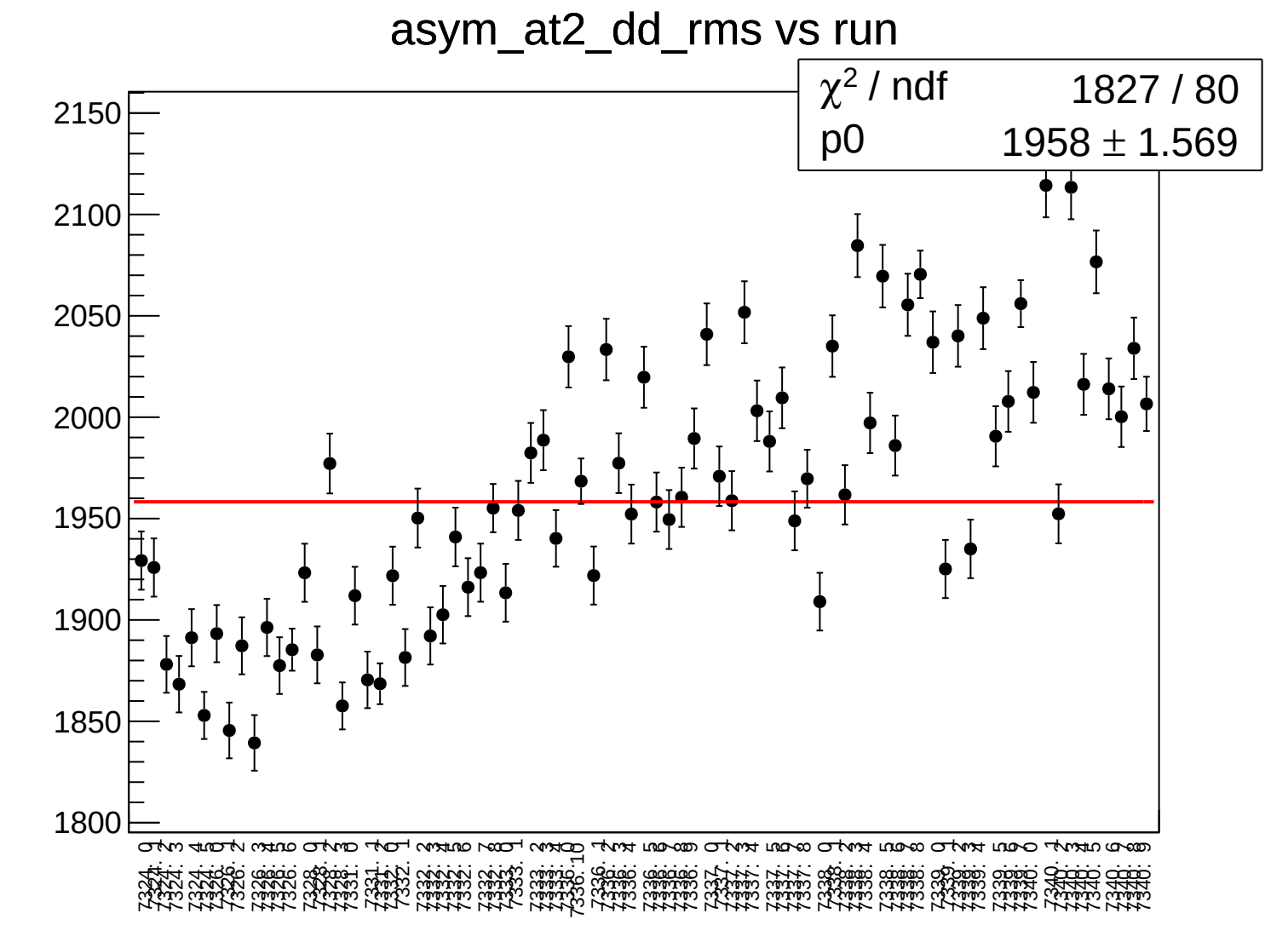

asym_at2_dd_correction_mean vs run
χ² / ndf 86.73 / 80
p0 96.94 ± 1334
pull
Entries 81
Mean 655.9
Std Dev 638.7

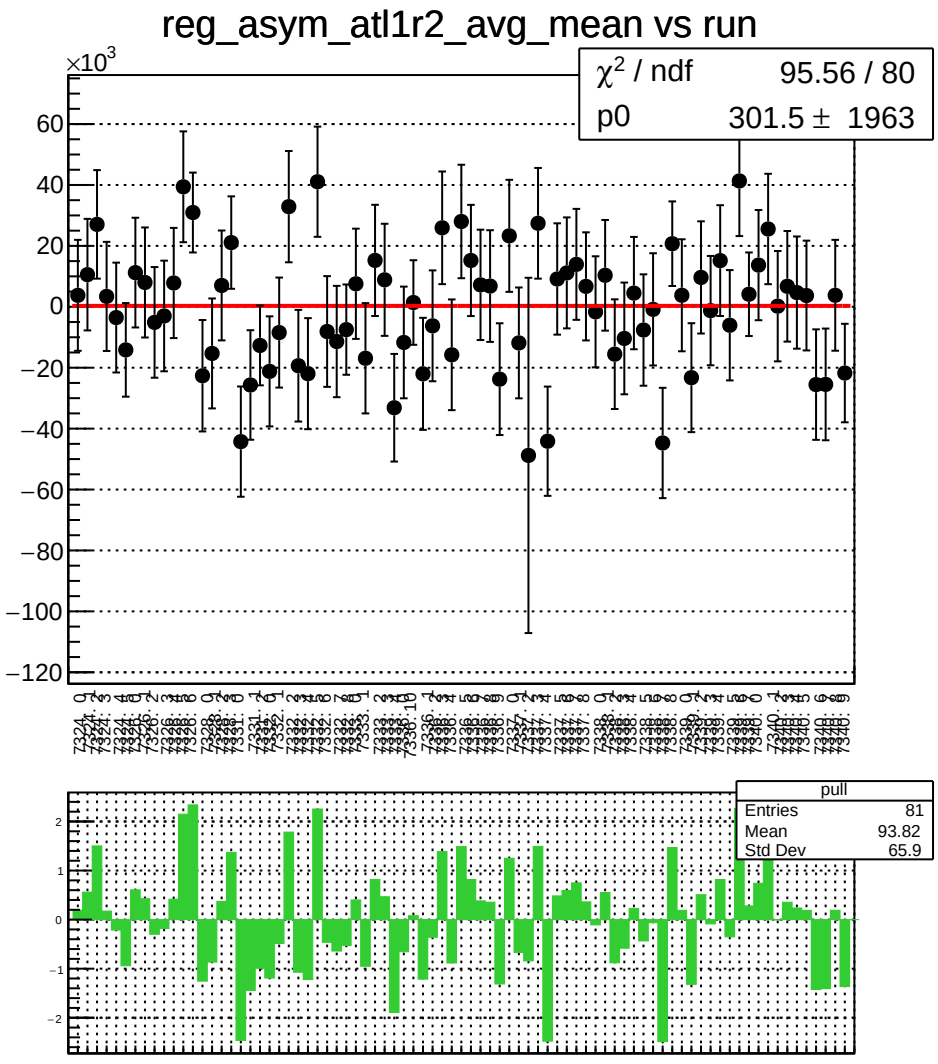

pull1D
Entries 81
Mean 0.002924
Std Dev 1.035

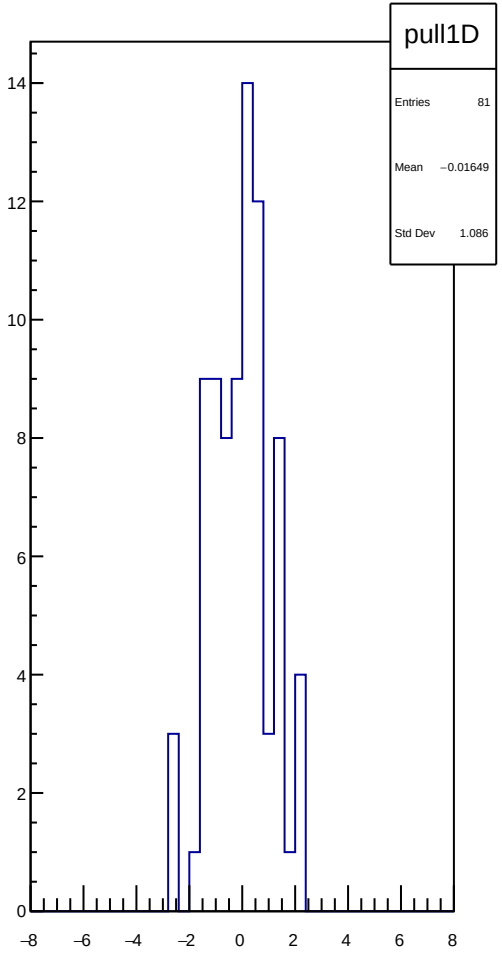

asym_at2_dd_correction_rms vs run
χ² / ndf 1.093e+04 / 80
p0 1174 ± 0.9435
1400
1300
1200
1100
1000

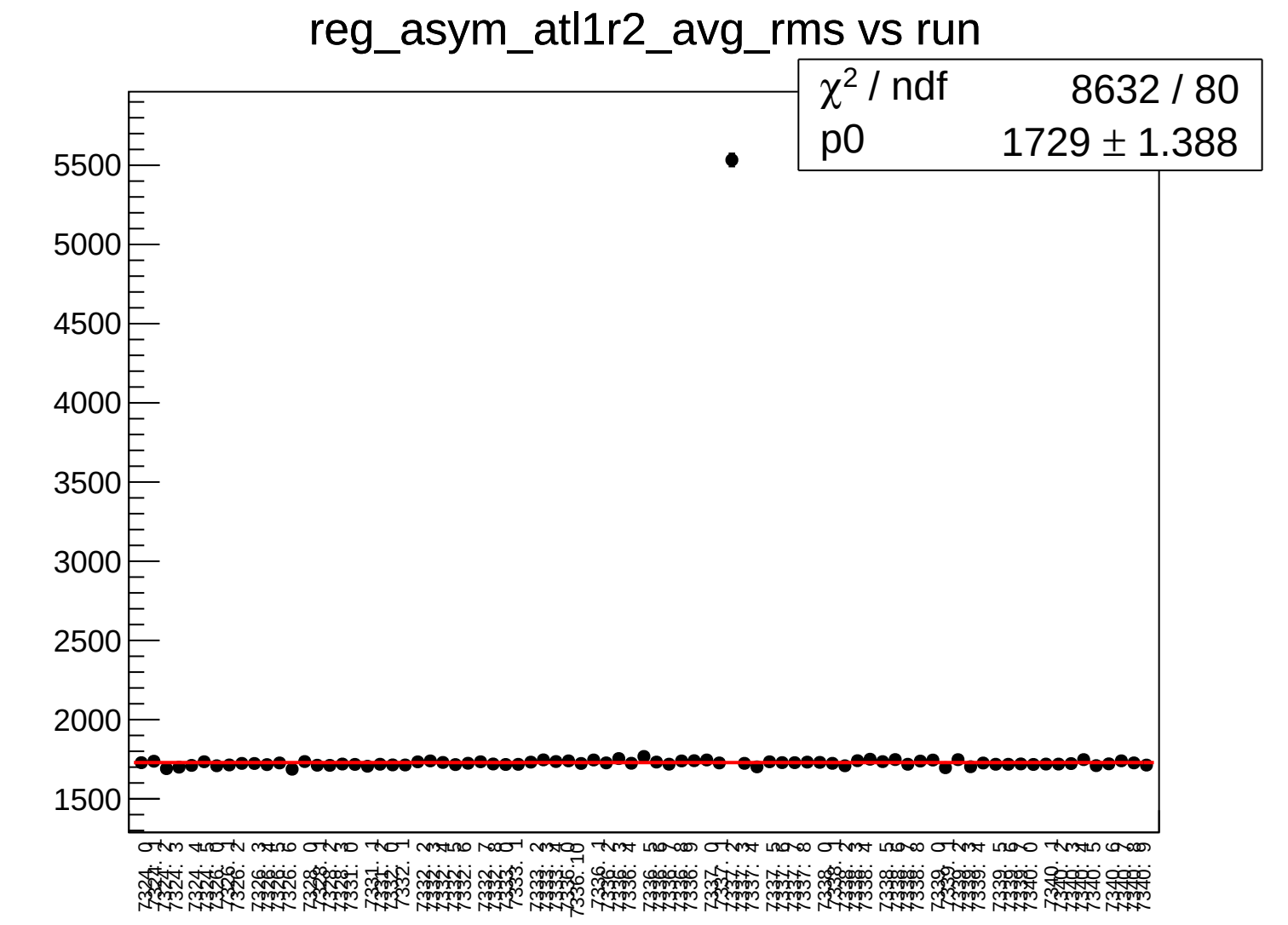

asym_at2_dd_mean vs run
χ² / ndf 95.06 / 80
p0 1816 ± 2219
pull
Entries 81
Mean −8282
Std Dev 8299

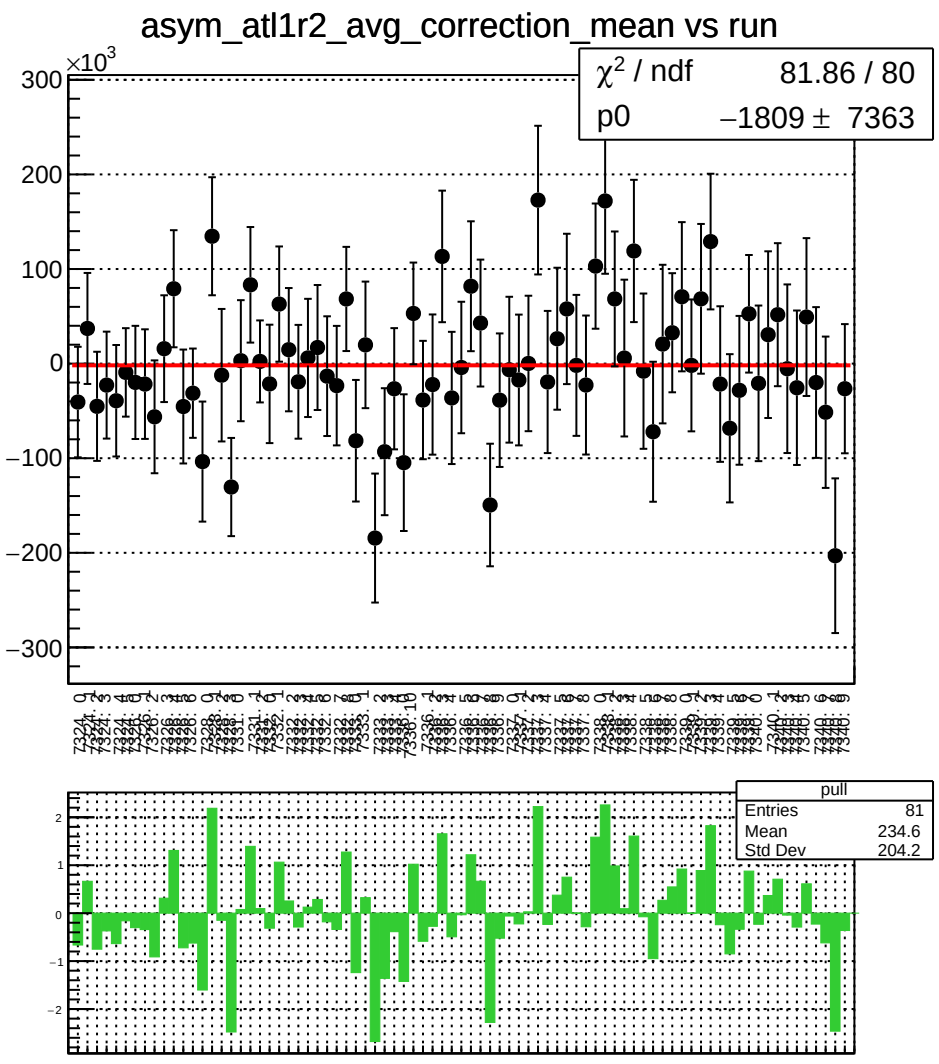

pull1D
Entries 81
Mean 0.0002624
Std Dev 1.083

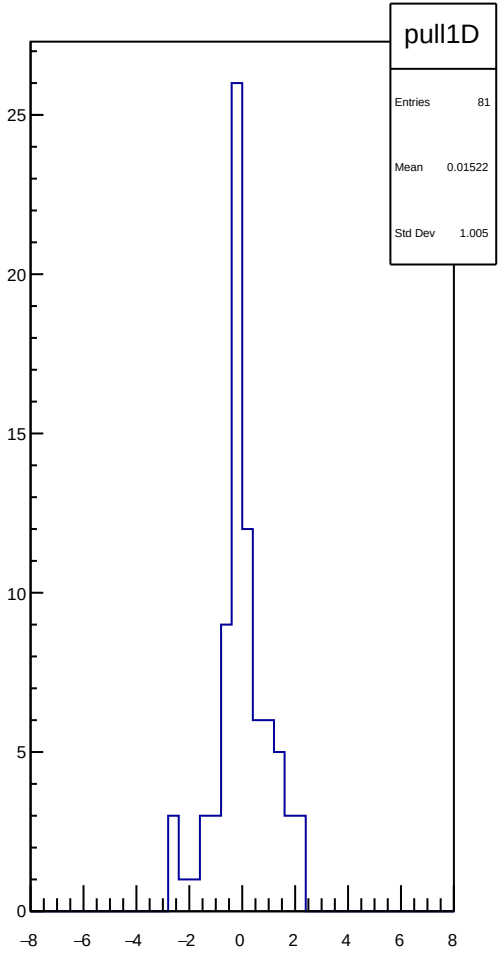

asym_at2_dd_rms vs run
χ² / ndf 1827 / 80
p0 1958 ± 1.569
2150
2100
2050
2000
1950
1900
1850
1800

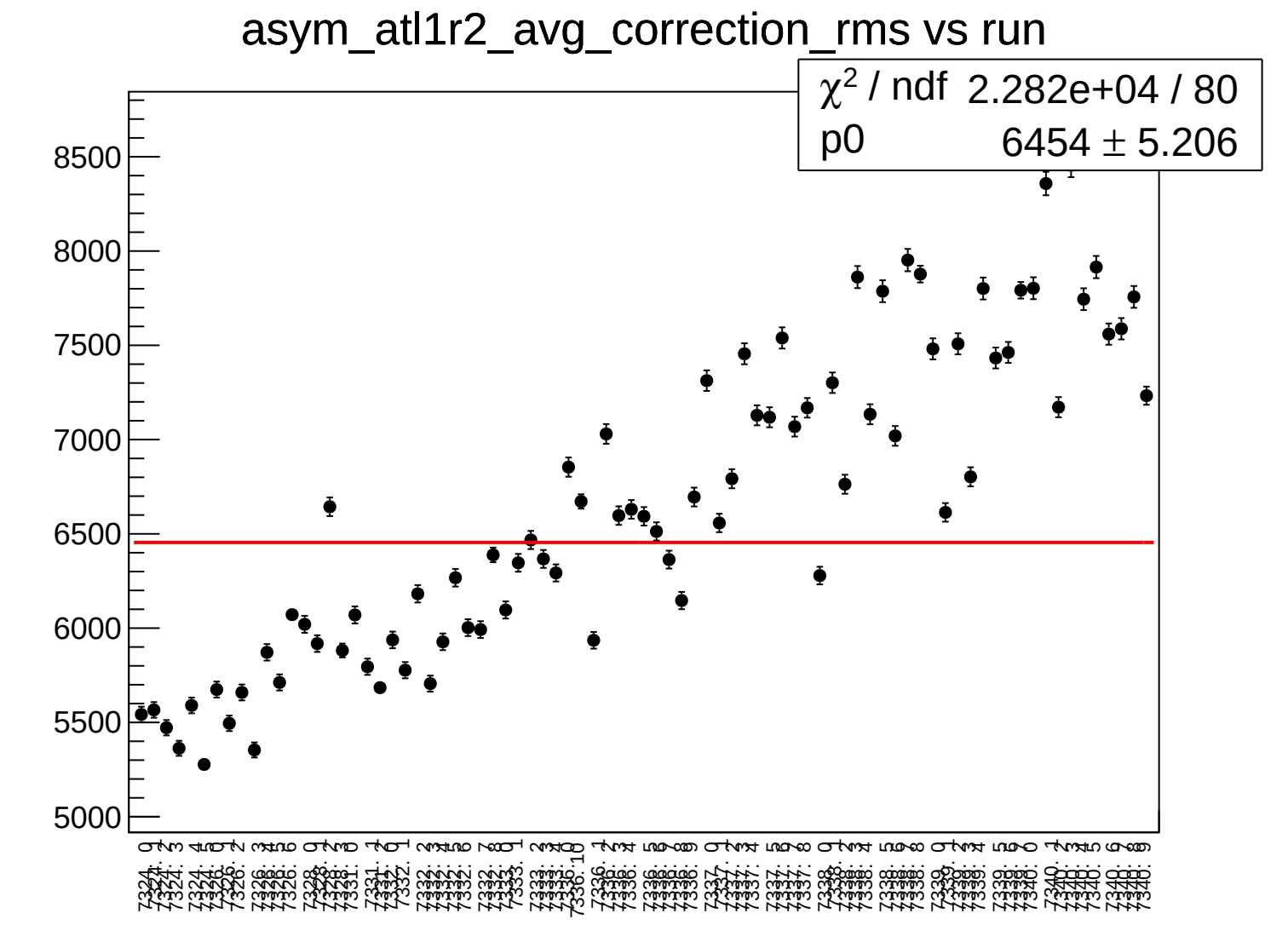

reg_asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 95.56 / 80
p0 301.5 ± 1963
pull
Entries 81
Mean 93.82
Std Dev 65.9

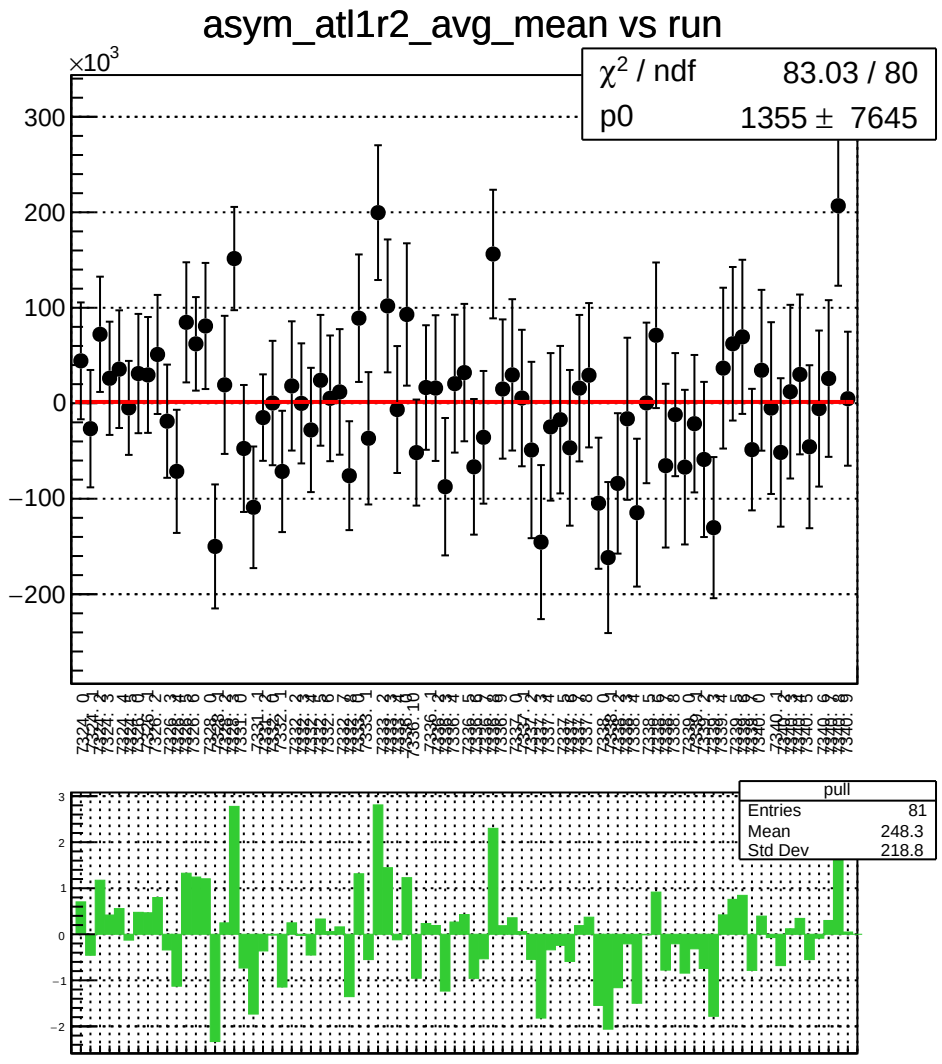

pull1D
Entries 81
Mean −0.01649
Std Dev 1.086

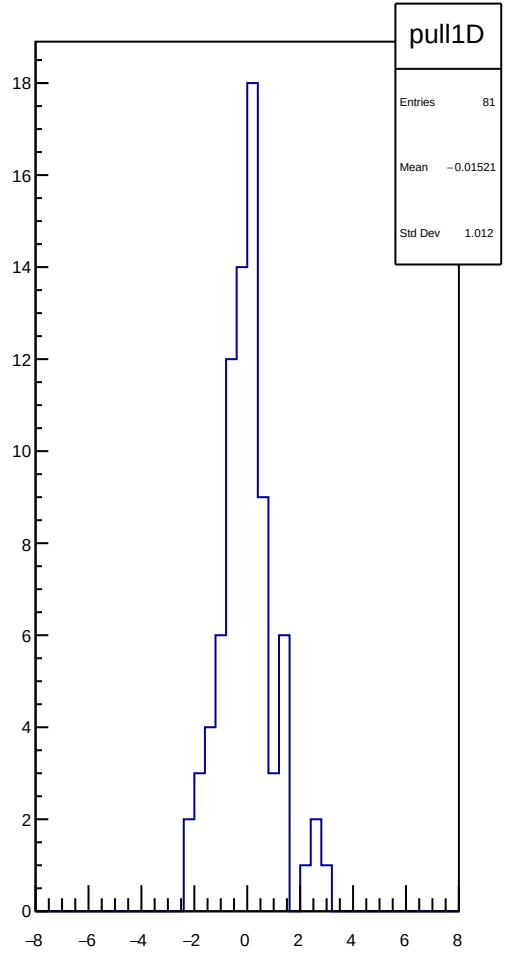

reg_asym_atl1r2_avg_rms vs run
χ² / ndf 8632 / 80
p0 1729 ± 1.388
5500
5000
4500
4000
3500
3000
2500
2000
1500

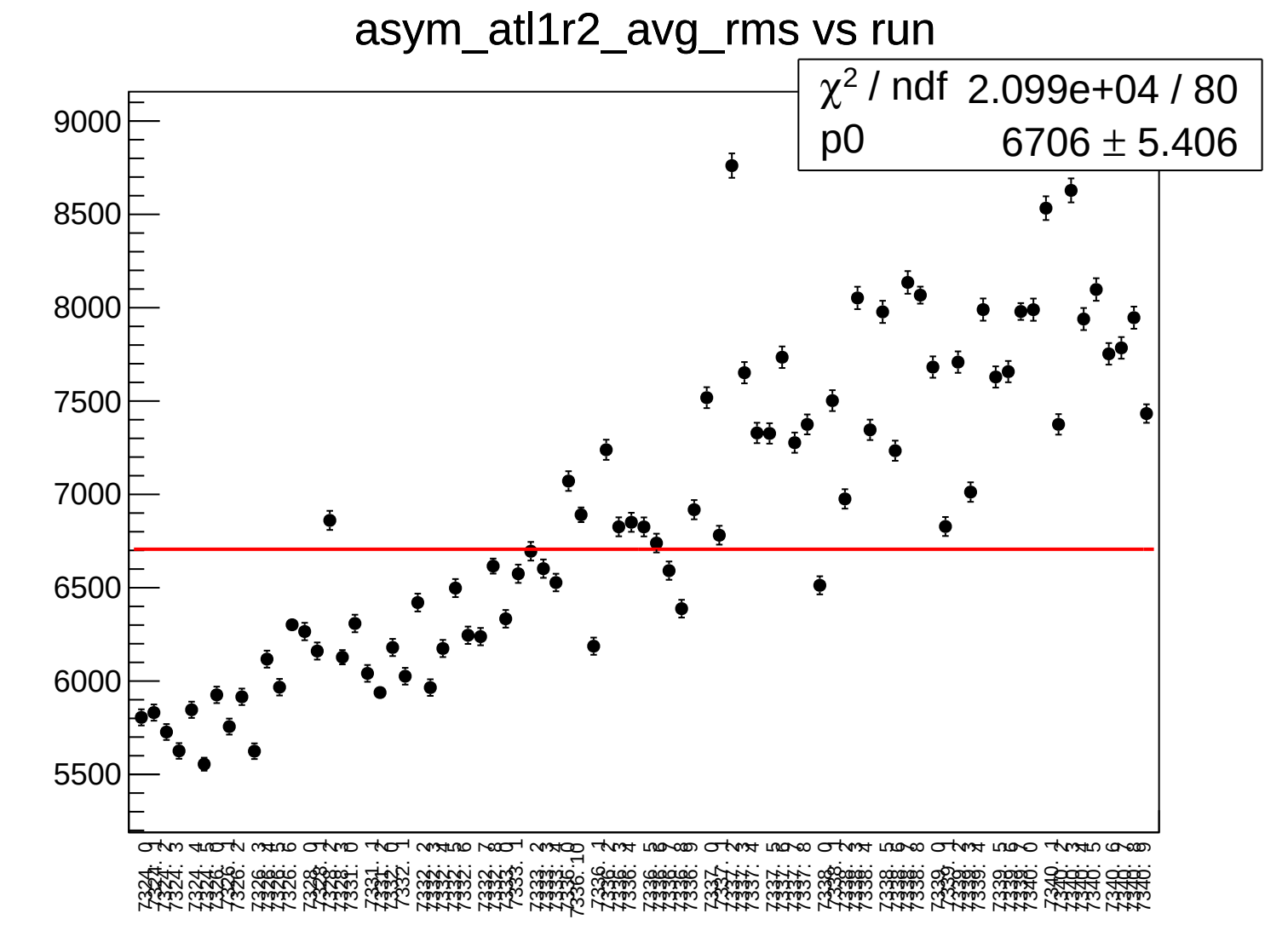

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 81.86 / 80
p0 −1809 ± 7363
pull
Entries 81
Mean 234.6
Std Dev 204.2

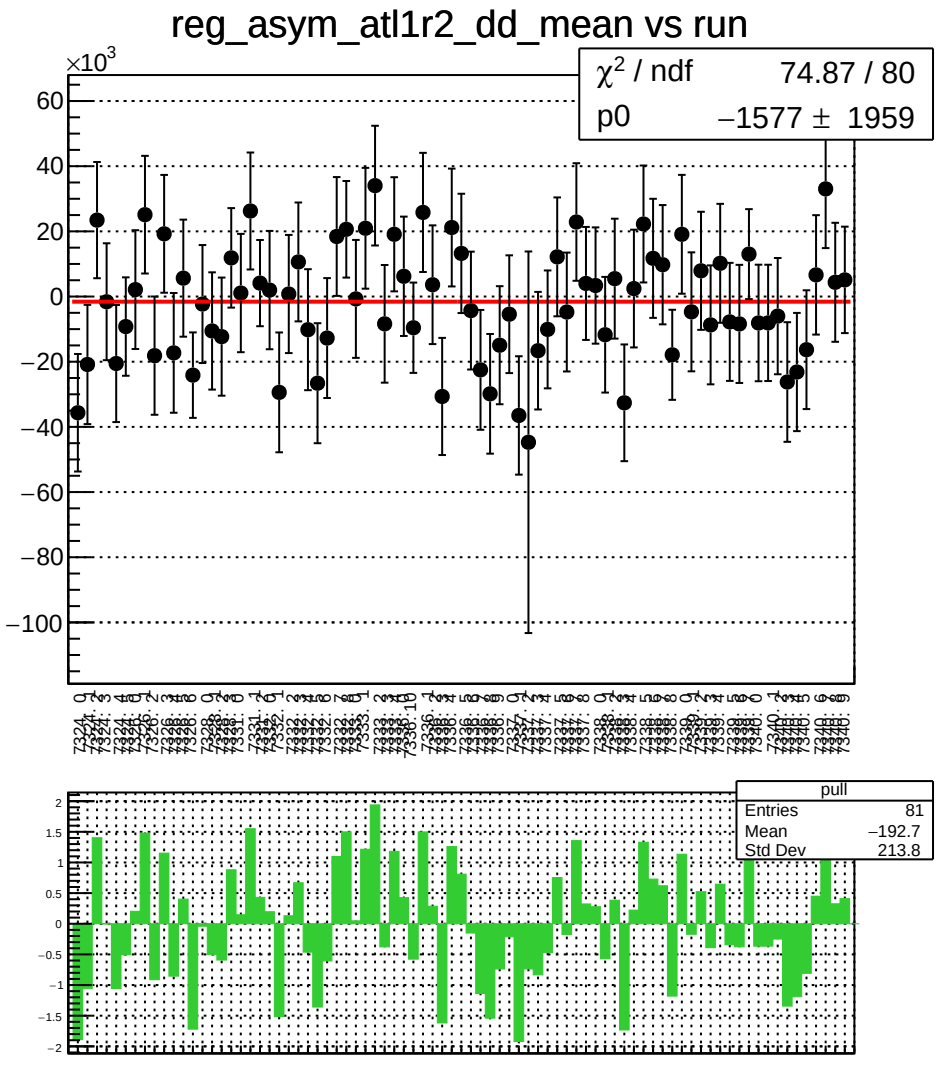

pull1D
Entries 81
Mean 0.01522
Std Dev 1.005

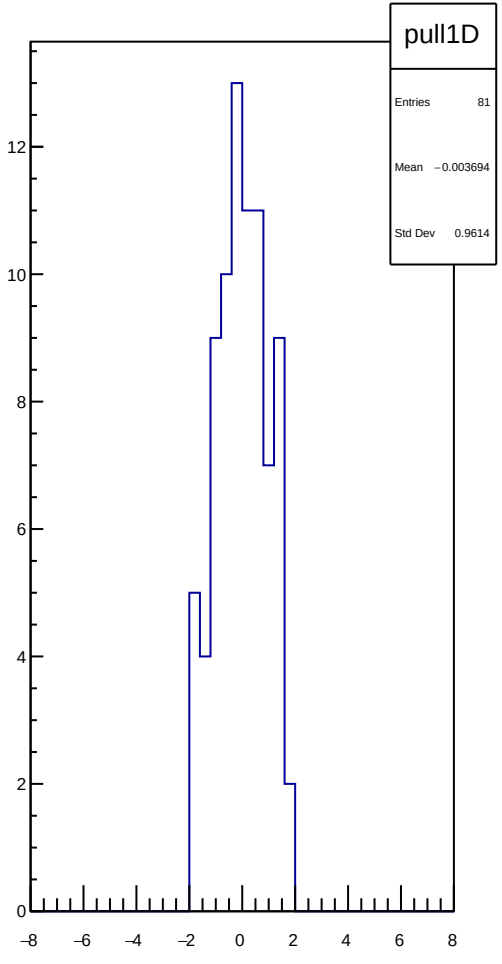

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 2.282e+04 / 80
p0 6454 ± 5.206
8500
8000
7500
7000
6500
6000
5500
5000

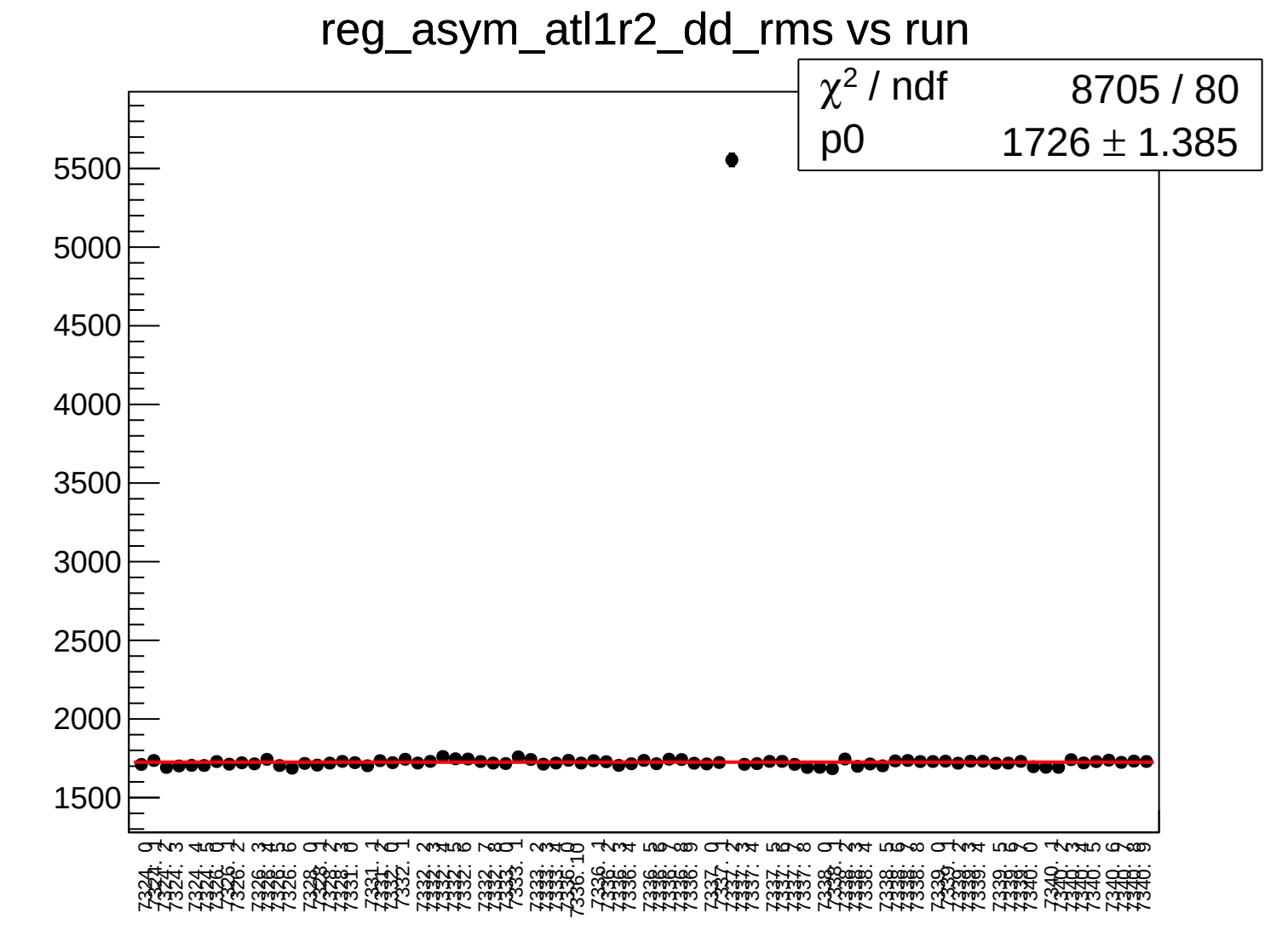

asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 83.03 / 80
p0 1355 ± 7645
300
200
100
0
−100
−200
pull
Entries 81
Mean 248.3
Std Dev 218.8
3
2
1
0
−1
−2

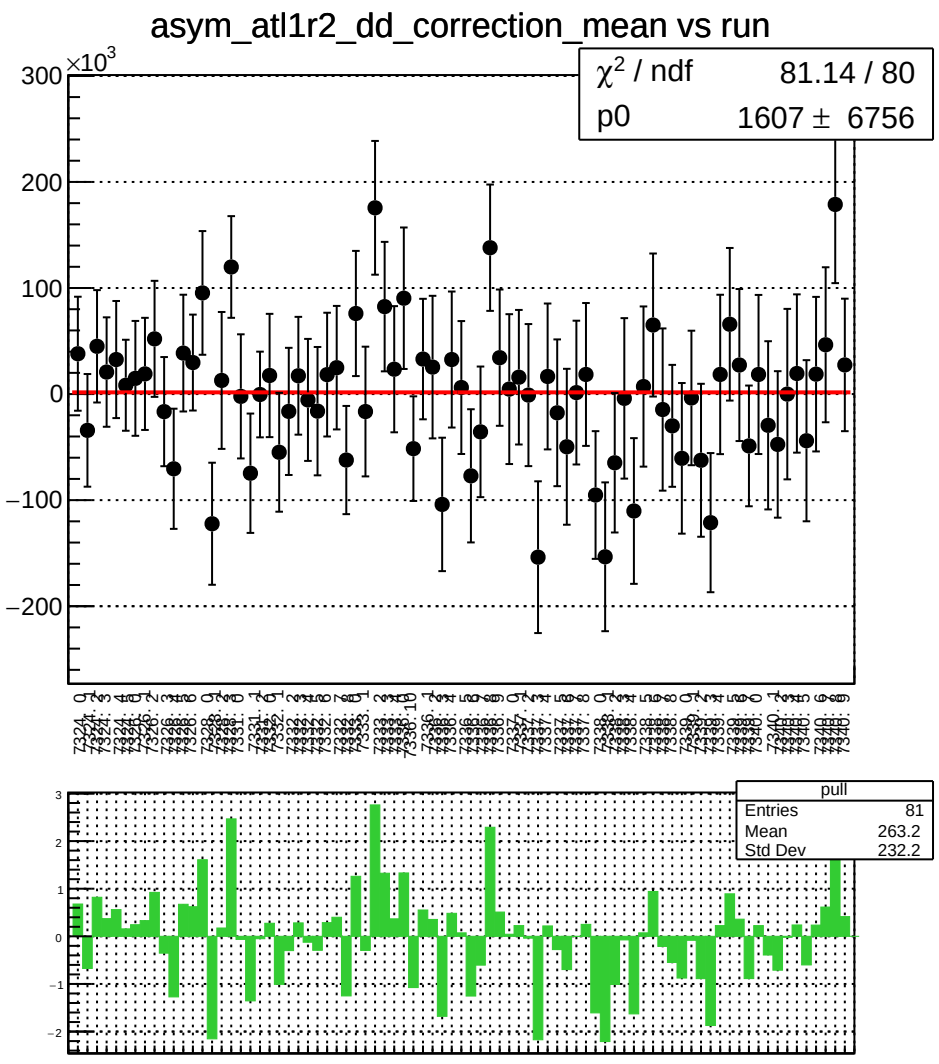

pull1D
Entries 81
Mean −0.01521
Std Dev 1.012
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

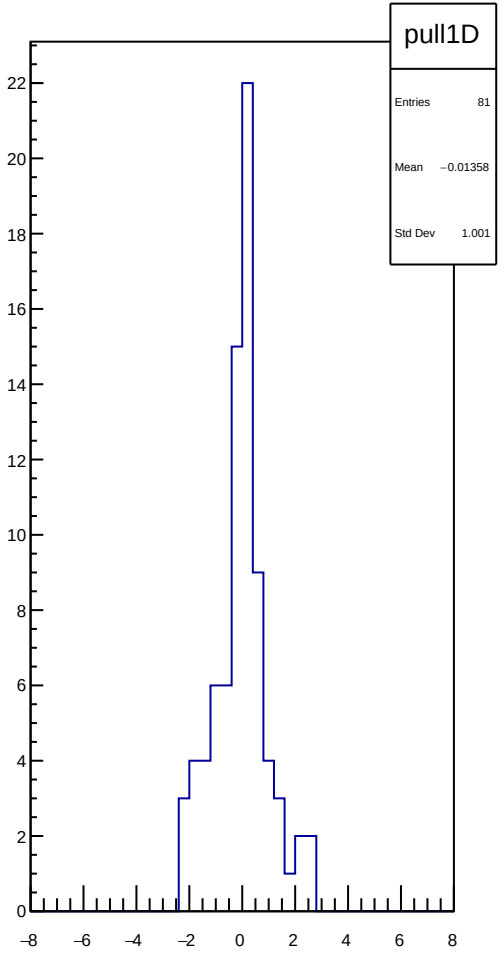

asym_atl1r2_avg_rms vs run
χ² / ndf 2.099e+04 / 80
p0 6706 ± 5.406
9000
8500
8000
7500
7000
6500
6000
5500

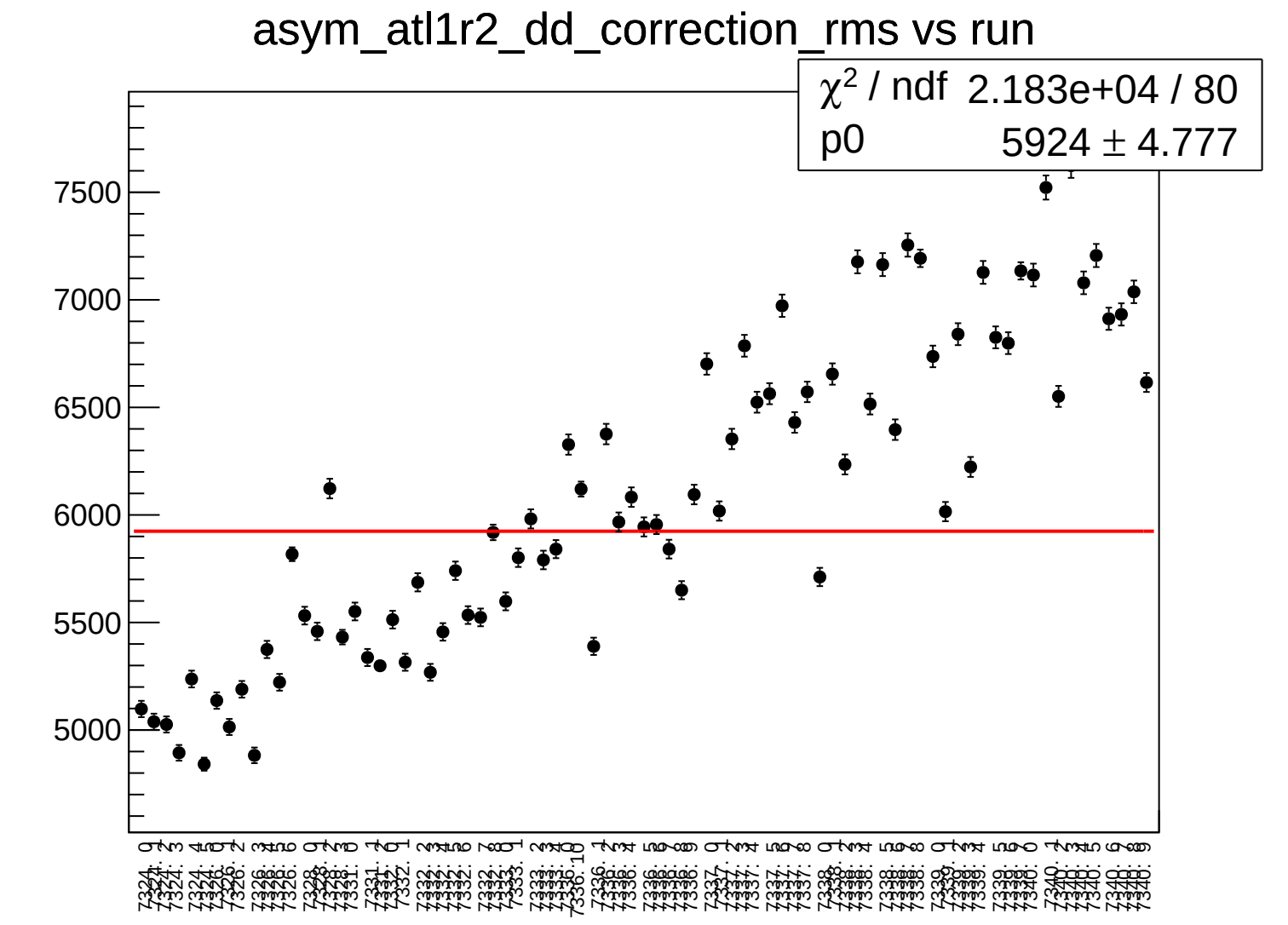

reg_asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 74.87 / 80
p0 −1577 ± 1959
pull
Entries 81
Mean −192.7
Std Dev 213.8

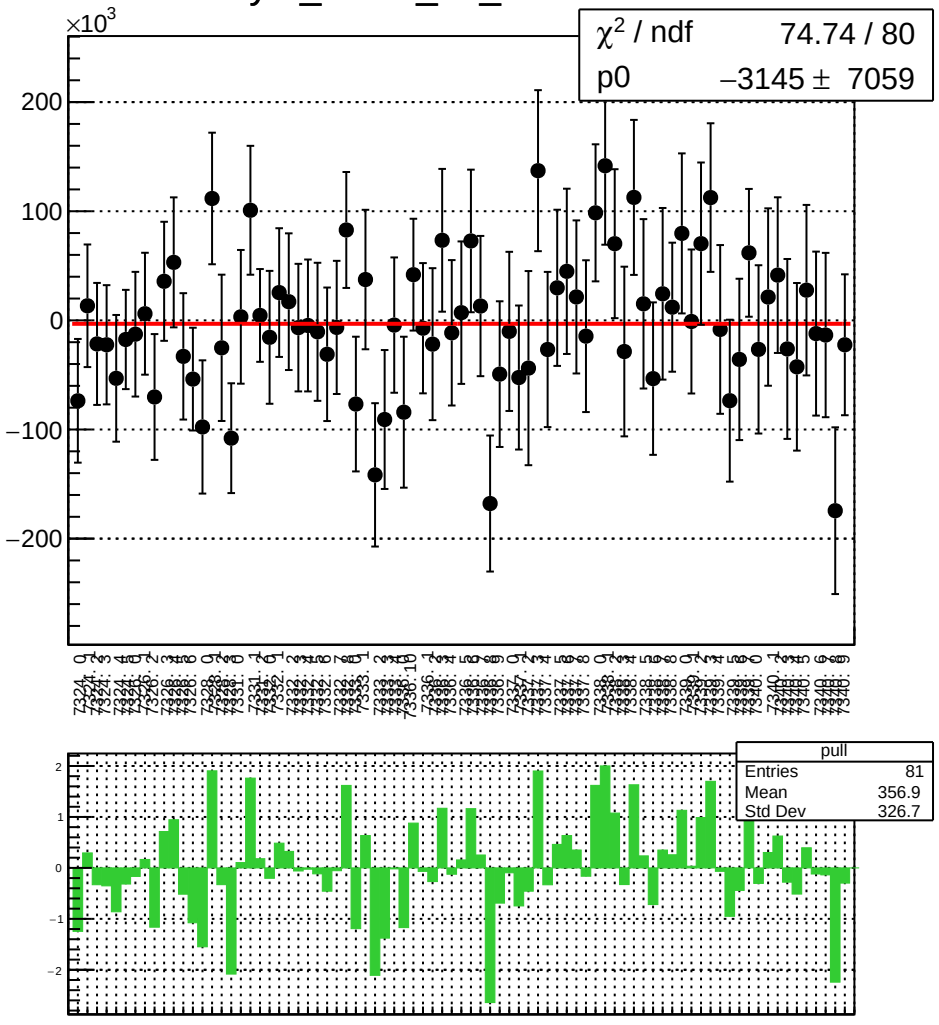

pull1D
Entries 81
Mean −0.003694
Std Dev 0.9614

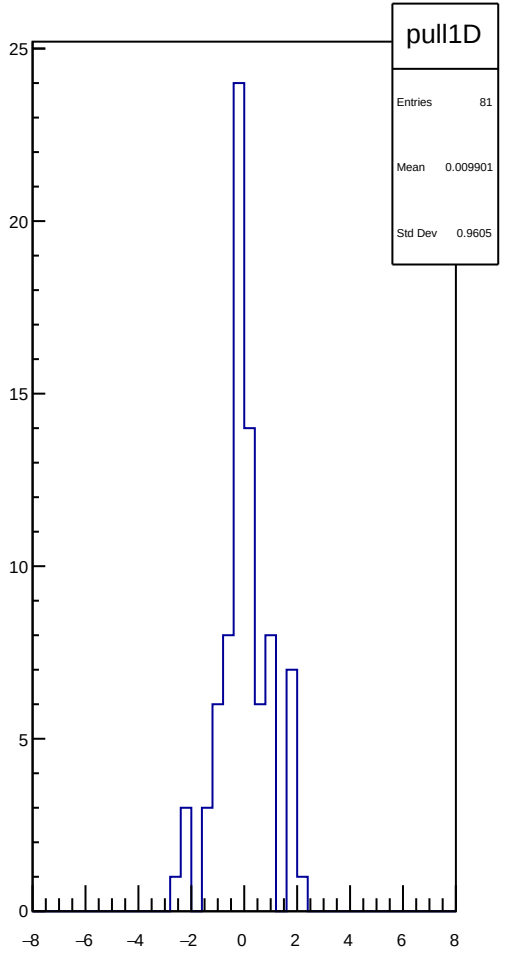

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 8705 / 80
p0 1726 ± 1.385
5500
5000
4500
4000
3500
3000
2500
2000
1500

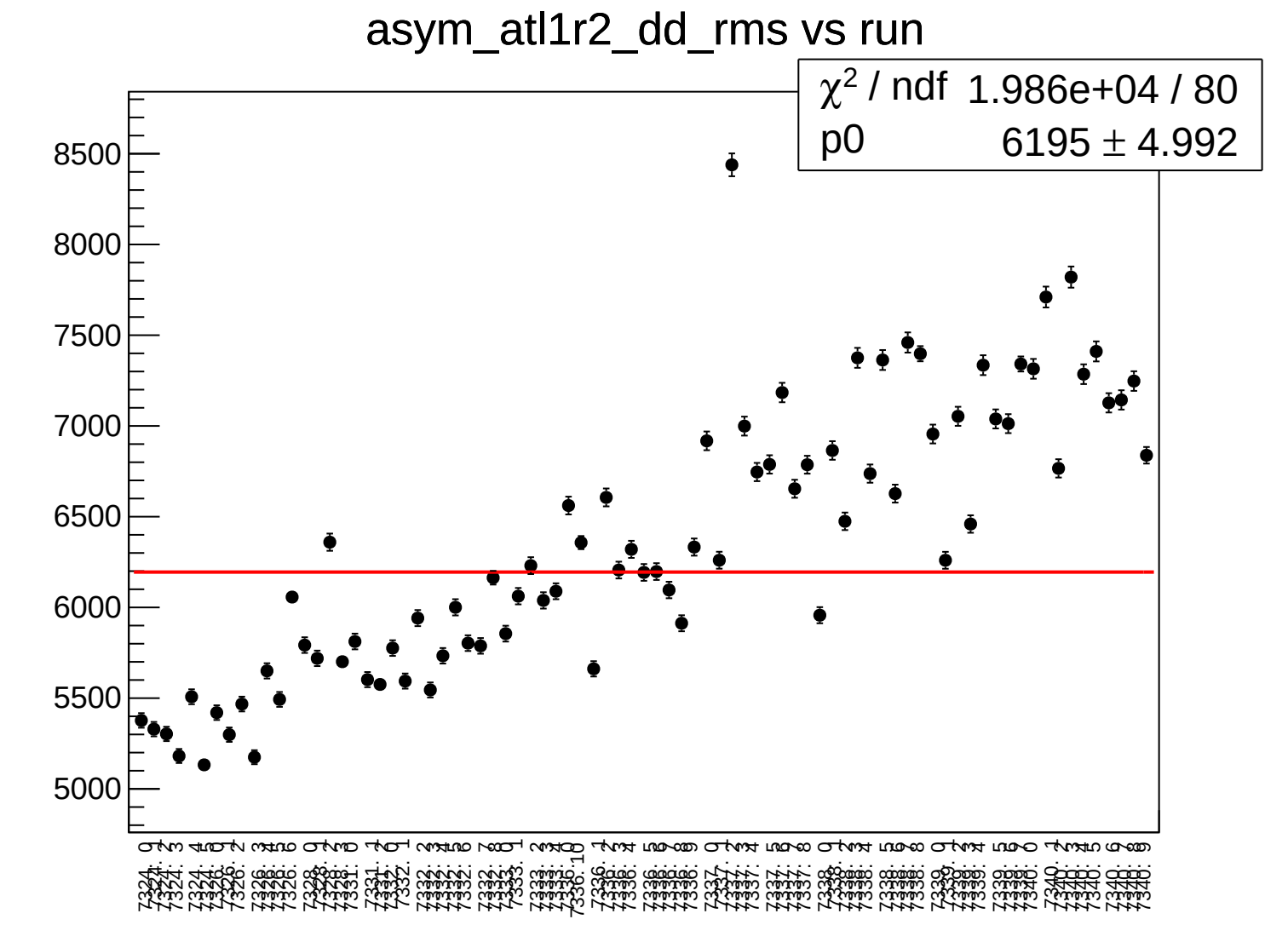

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 81.14 / 80
p0 1607 ± 6756
pull
Entries 81
Mean 263.2
Std Dev 232.2

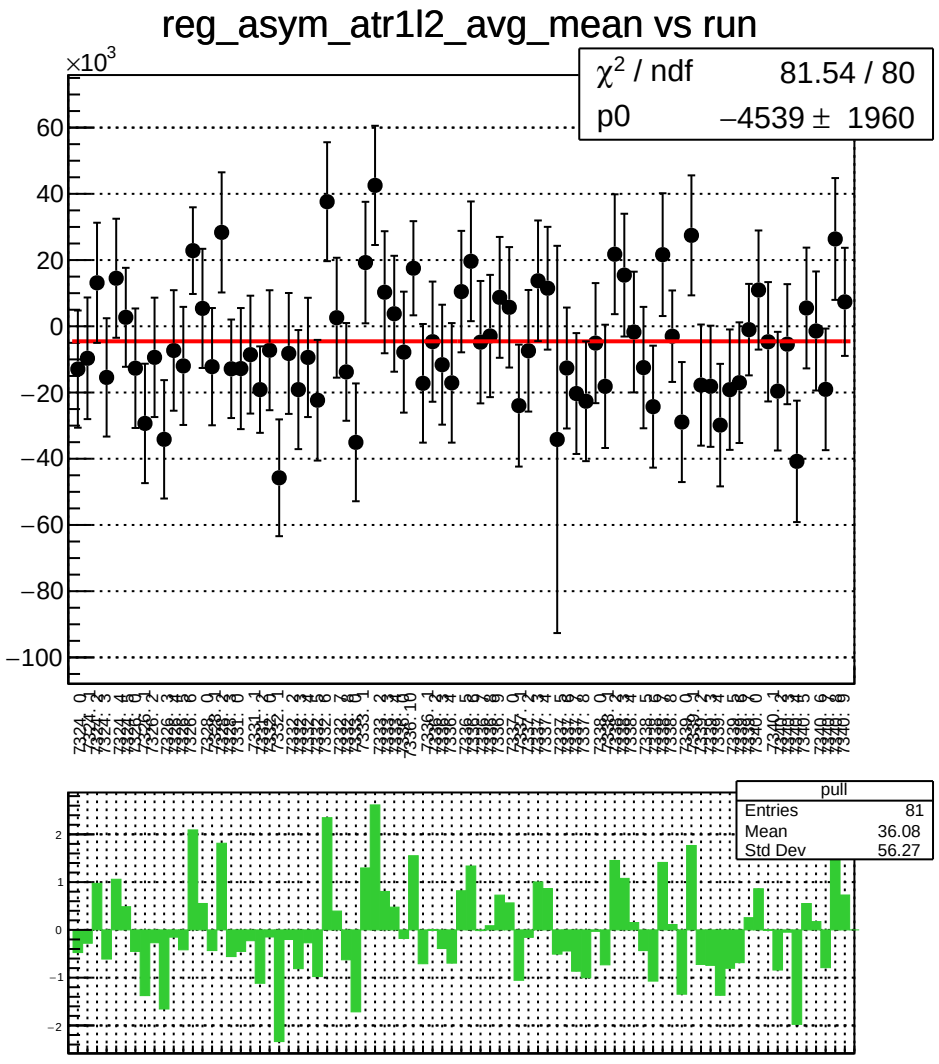

pull1D
Entries 81
Mean −0.01358
Std Dev 1.001

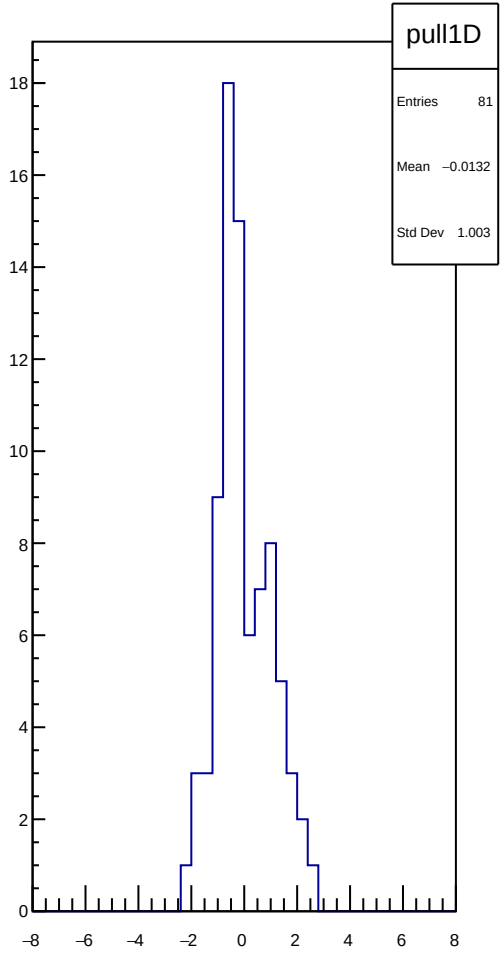

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 2.183e+04 / 80
p0 5924 ± 4.777
7500
7000
6500
6000
5500
5000

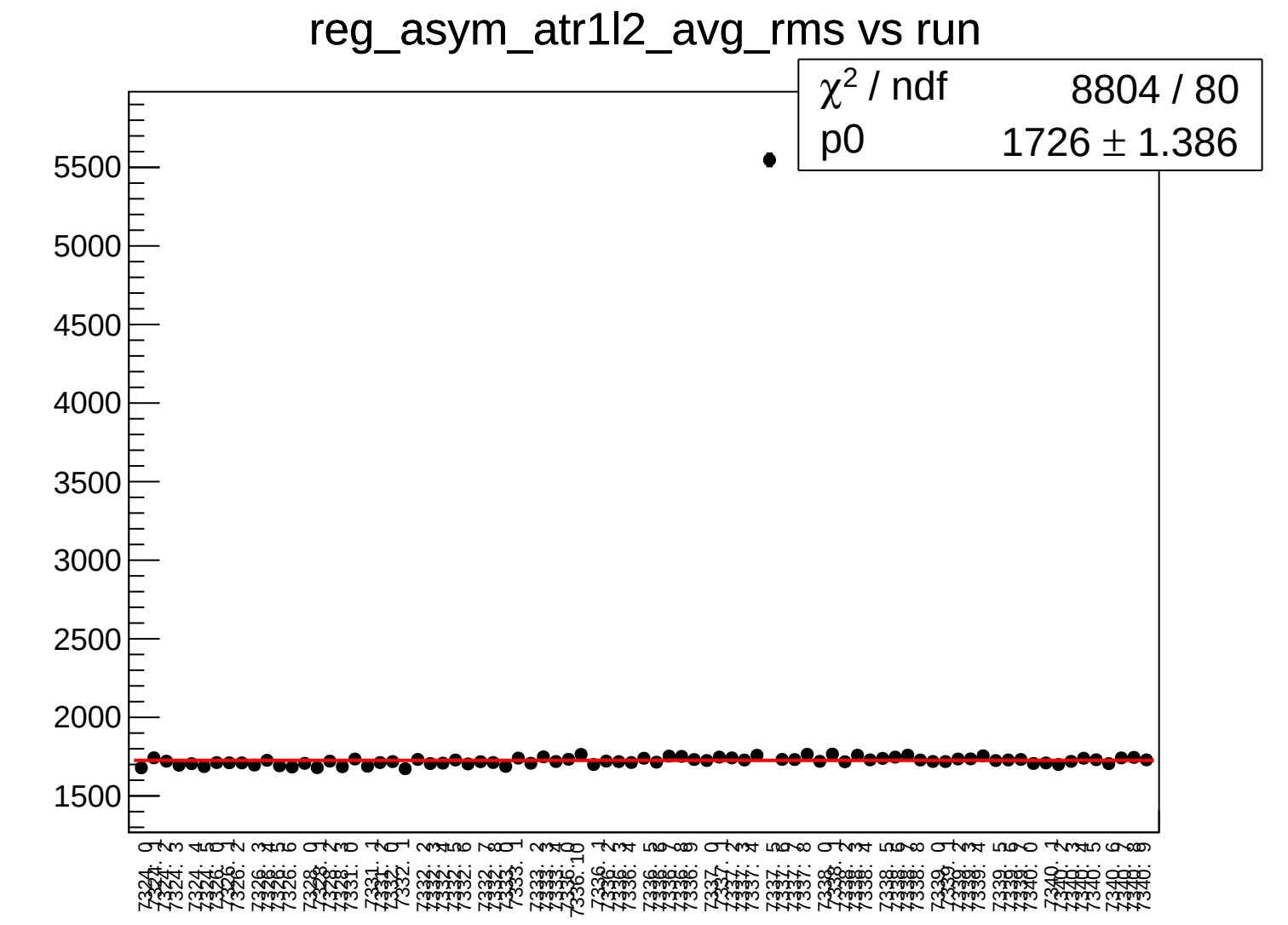

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 74.74 / 80
p0 −3145 ± 7059
200
100
0
−100
−200
pull
Entries 81
Mean 356.9
Std Dev 326.7
2
1
0
−1
−2

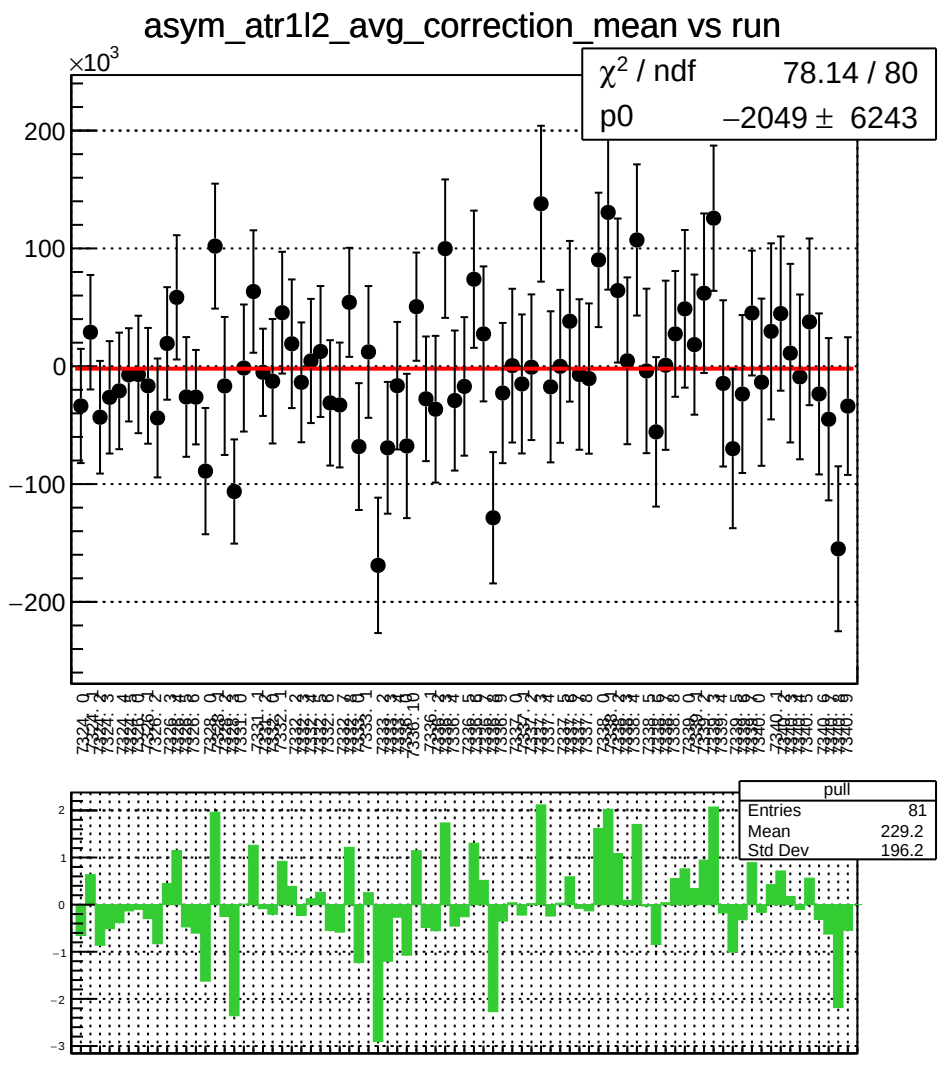

pull1D
Entries 81
Mean 0.009901
Std Dev 0.9605
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

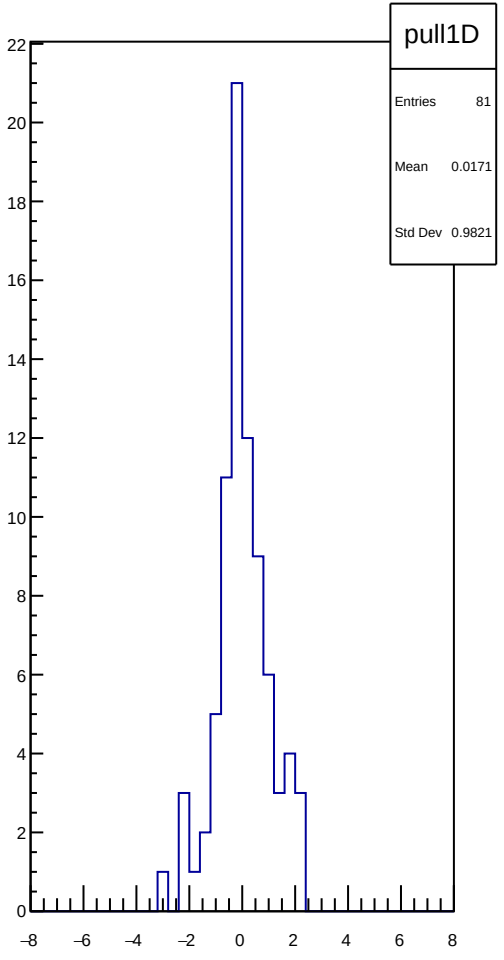

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.986e+04 / 80
p0 6195 ± 4.992
8500
8000
7500
7000
6500
6000
5500
5000

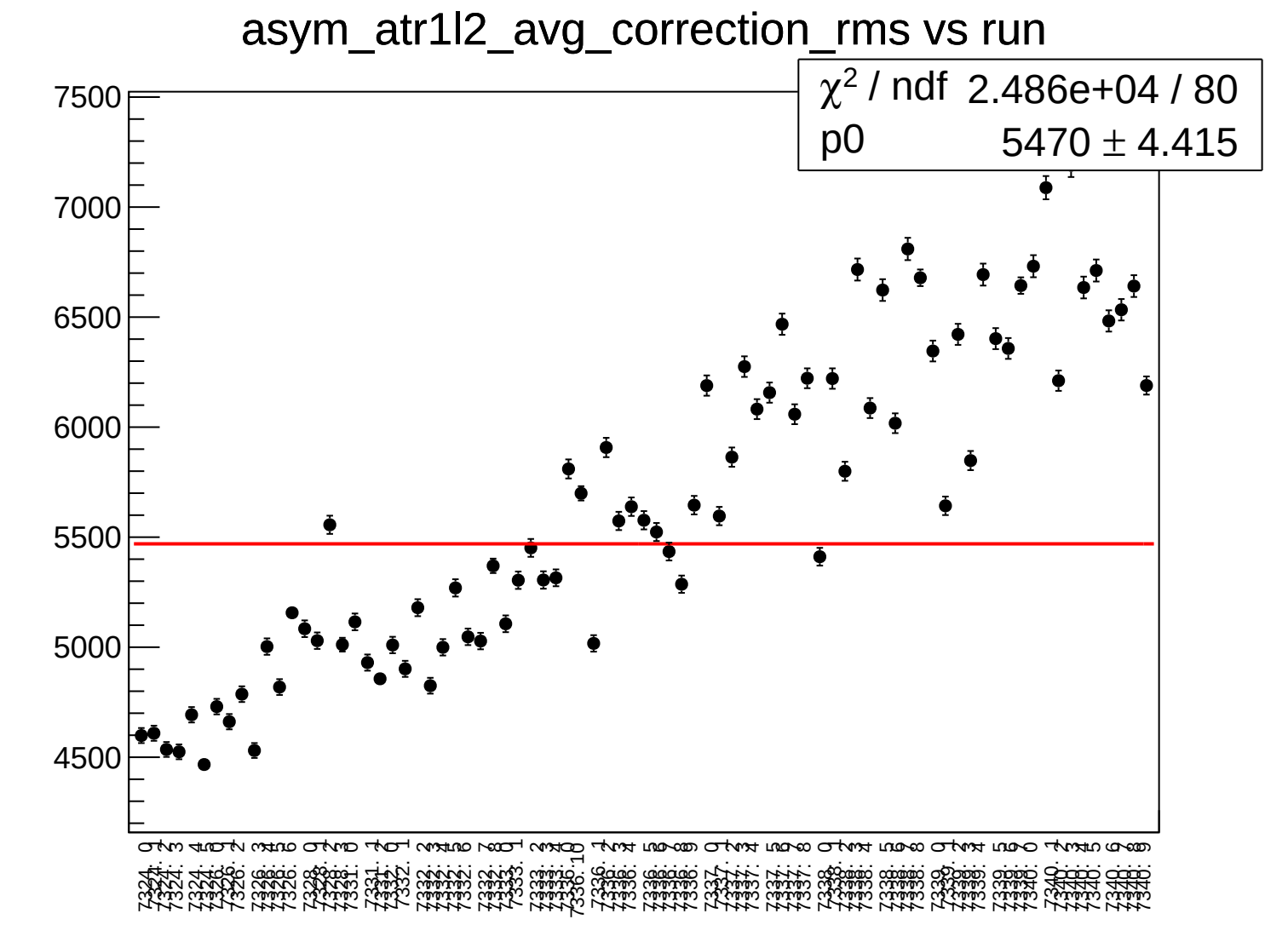

reg_asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 81.54 / 80
p0 −4539 ± 1960
pull
Entries 81
Mean 36.08
Std Dev 56.27

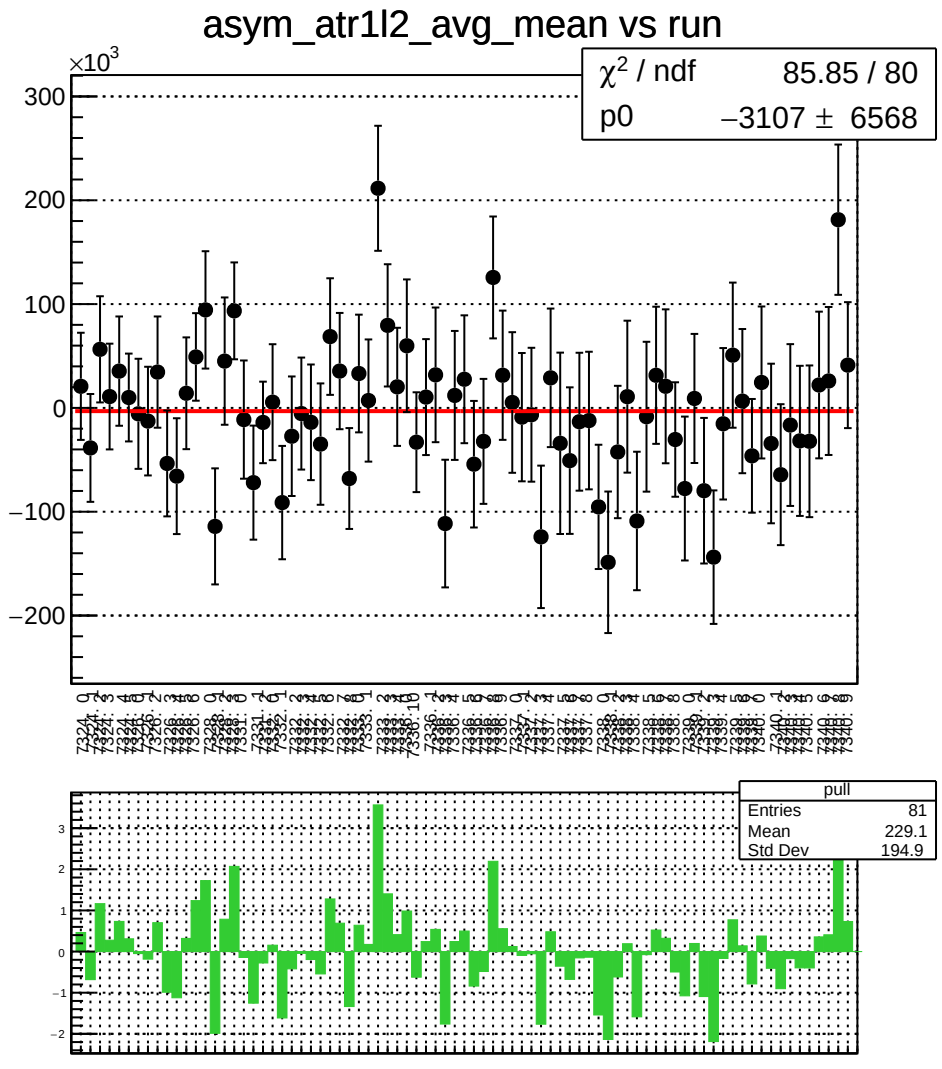

pull1D
Entries 81
Mean −0.0132
Std Dev 1.003

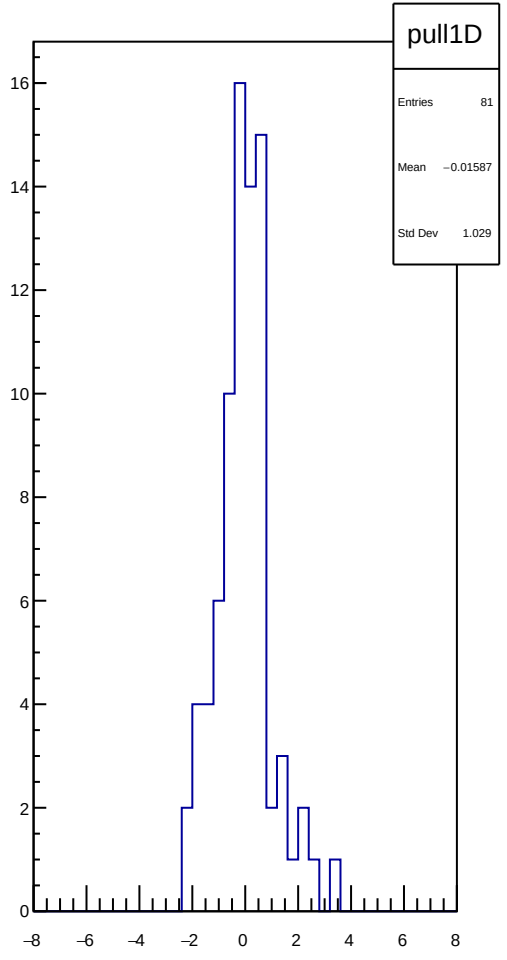

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 8804 / 80
p0 1726 ± 1.386
5500
5000
4500
4000
3500
3000
2500
2000
1500

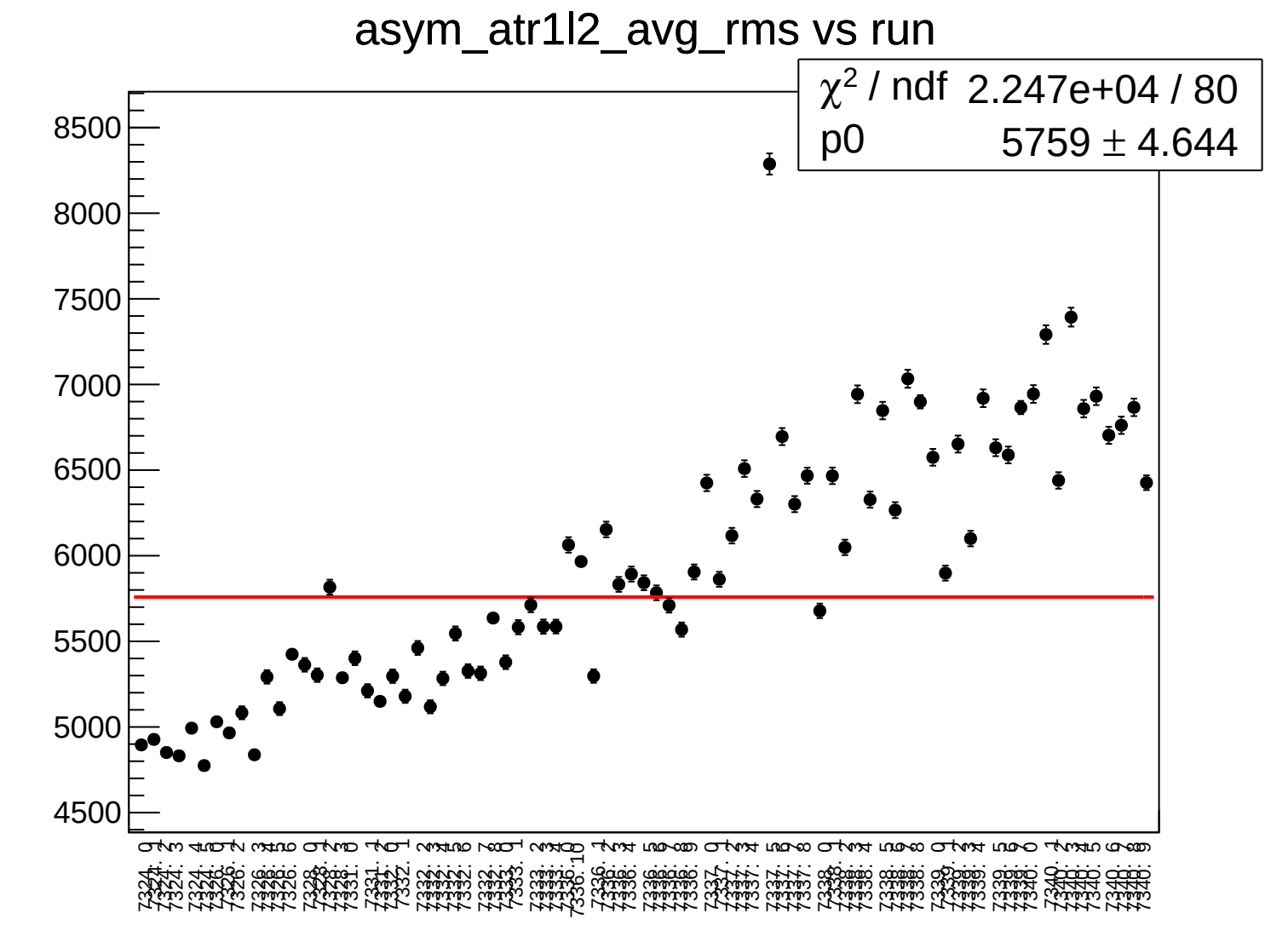

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 78.14 / 80
p0 −2049 ± 6243
200
100
0
−100
−200
pull
Entries 81
Mean 229.2
Std Dev 196.2
2
1
0
−1
−2
−3

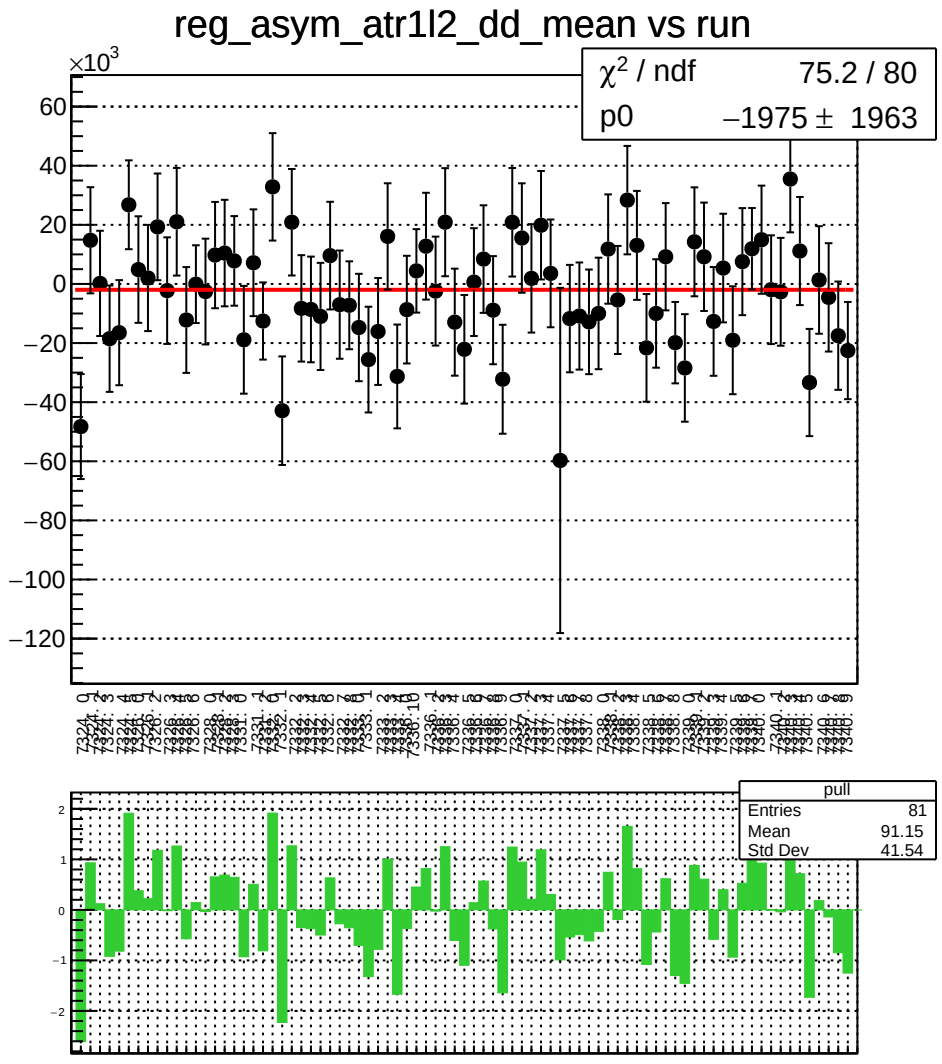

pull1D
Entries 81
Mean 0.0171
Std Dev 0.9821
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

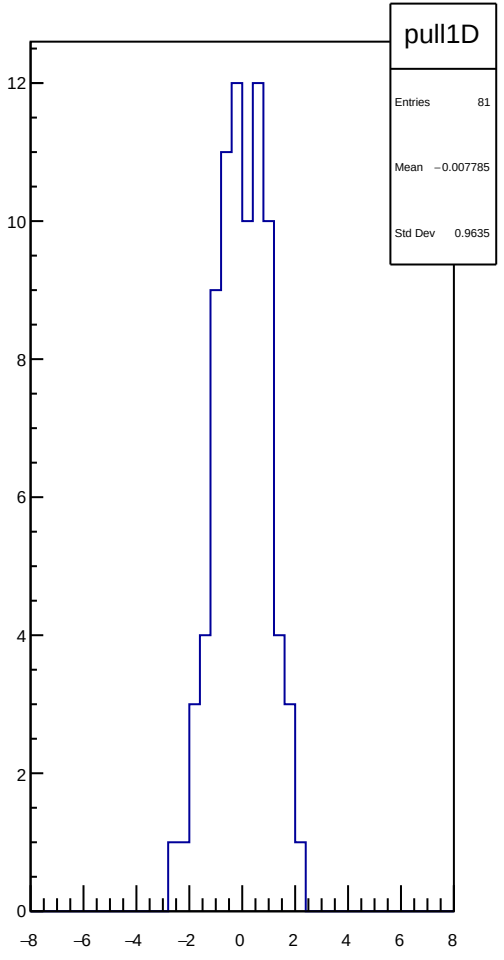

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 2.486e+04 / 80
p0 5470 ± 4.415
7500
7000
6500
6000
5500
5000
4500

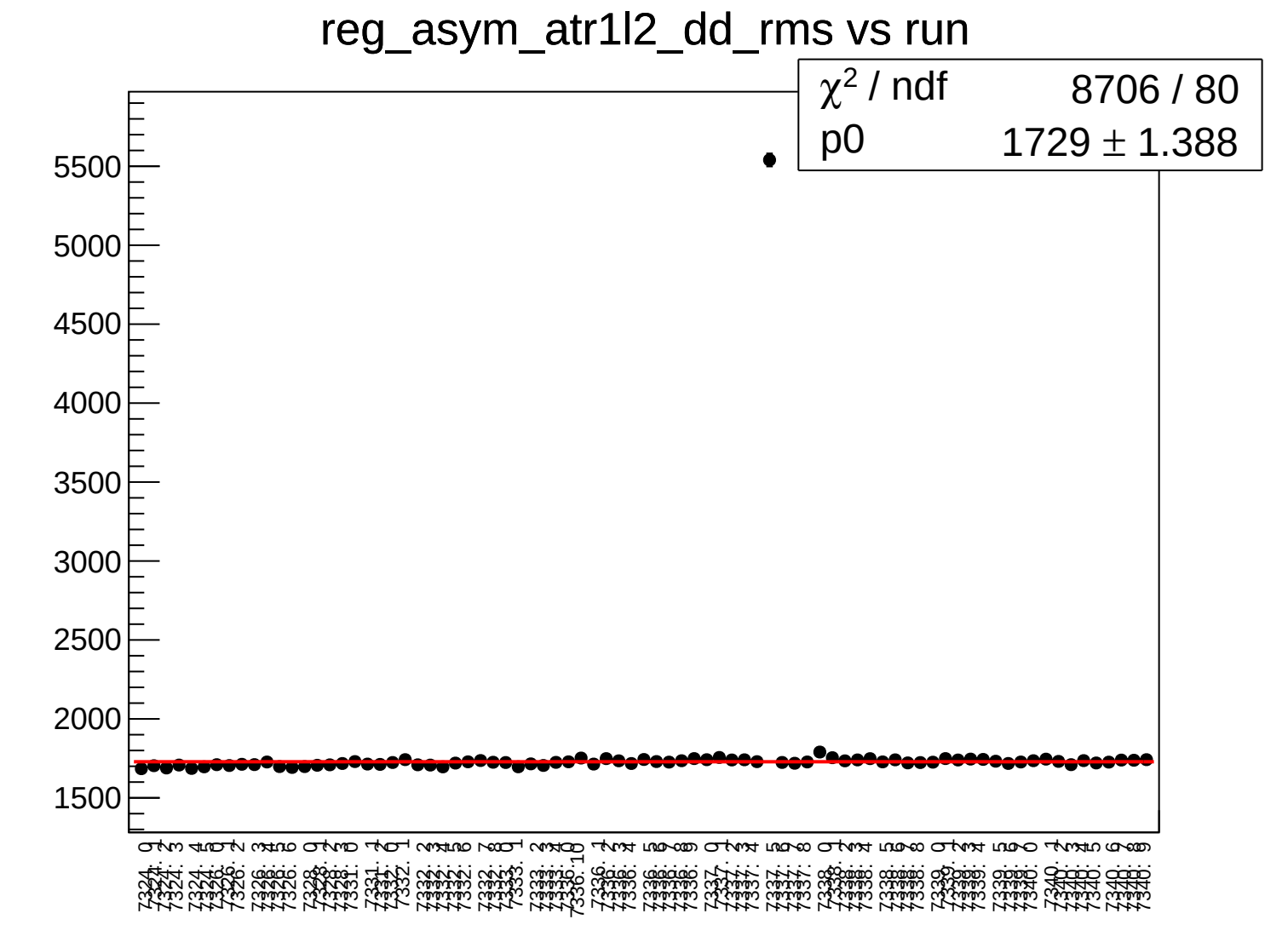

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 85.85 / 80
p0 −3107 ± 6568
300
200
100
0
−100
−200
pull
Entries 81
Mean 229.1
Std Dev 194.9
3
2
1
0
−1
−2

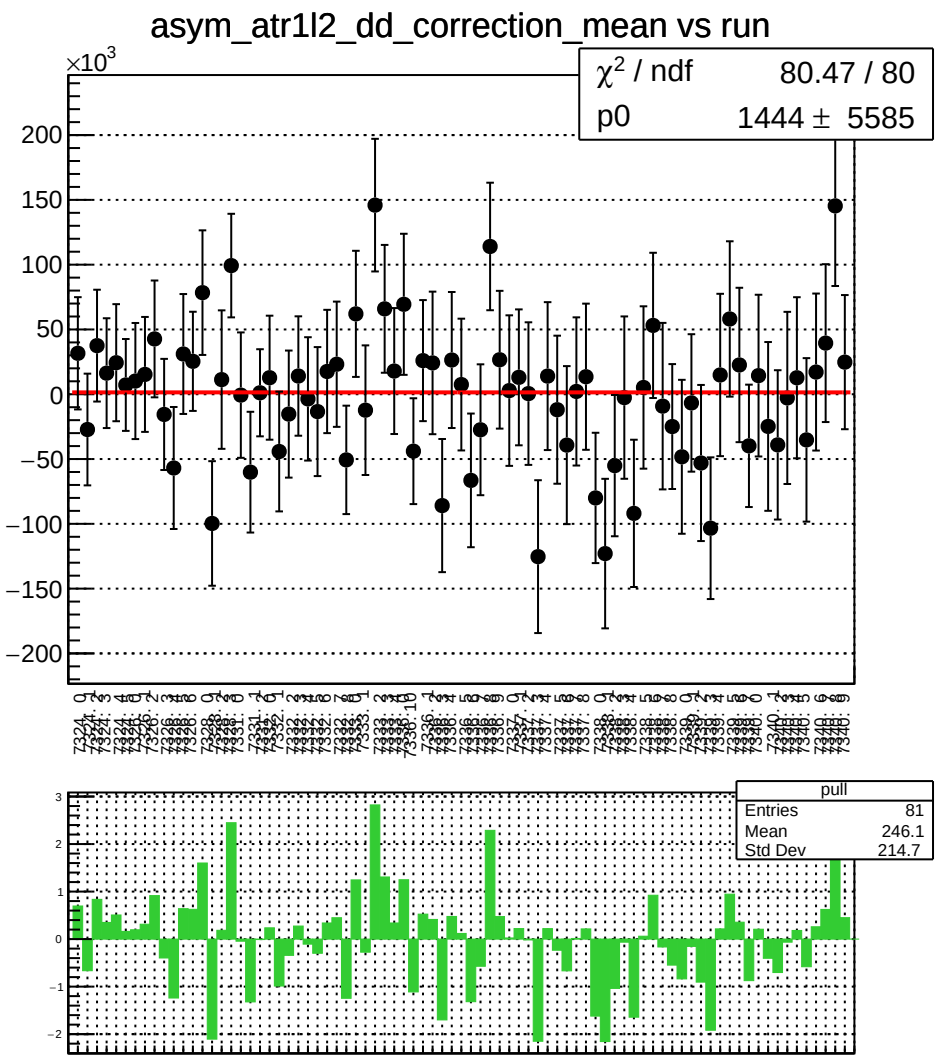

pull1D
Entries 81
Mean −0.01587
Std Dev 1.029
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

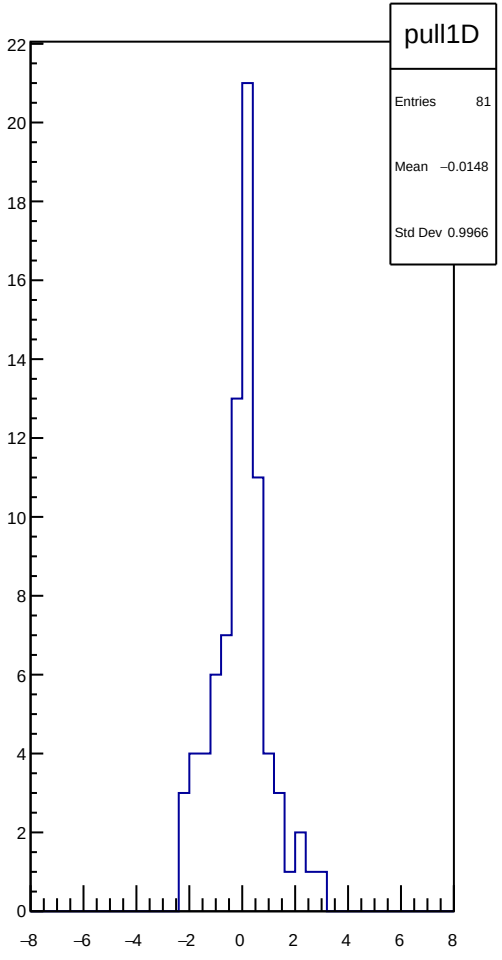

asym_atr1l2_avg_rms vs run
χ^2 / ndf 2.247e+04 / 80
p0 5759 ± 4.644
8500
8000
7500
7000
6500
6000
5500
5000
4500

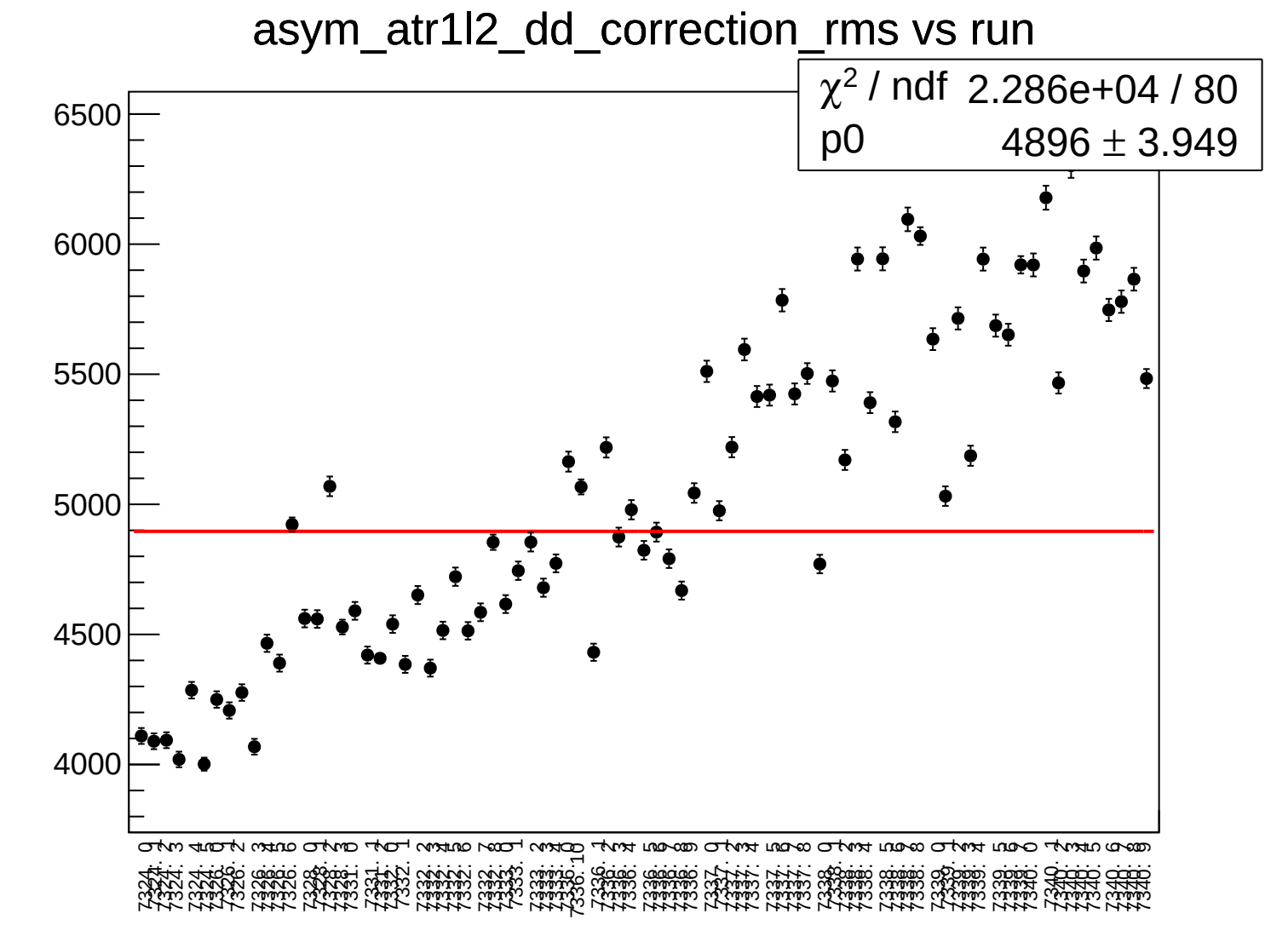

reg_asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 75.2 / 80
p0 −1975 ± 1963
pull
Entries 81
Mean 91.15
Std Dev 41.54

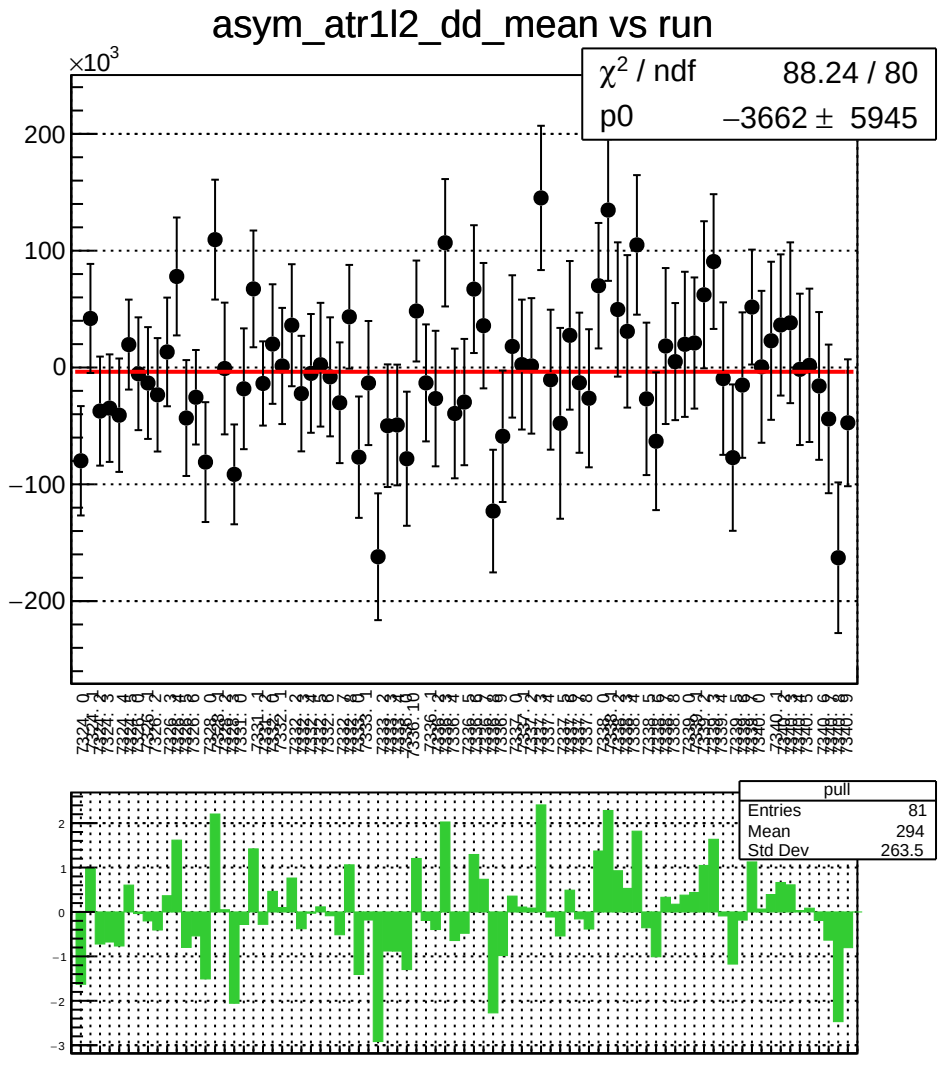

pull1D
Entries 81
Mean −0.007785
Std Dev 0.9635

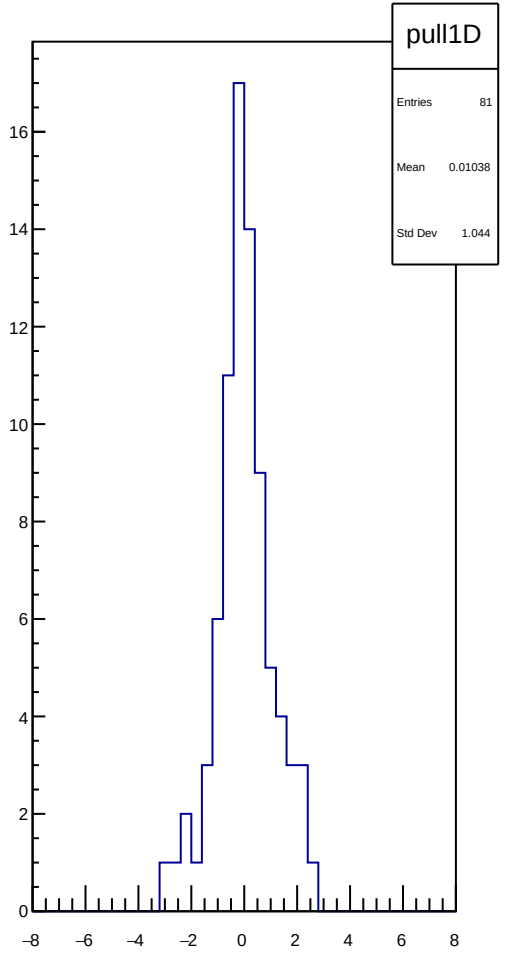

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8706 / 80
p0 1729 ± 1.388
5500
5000
4500
4000
3500
3000
2500
2000
1500

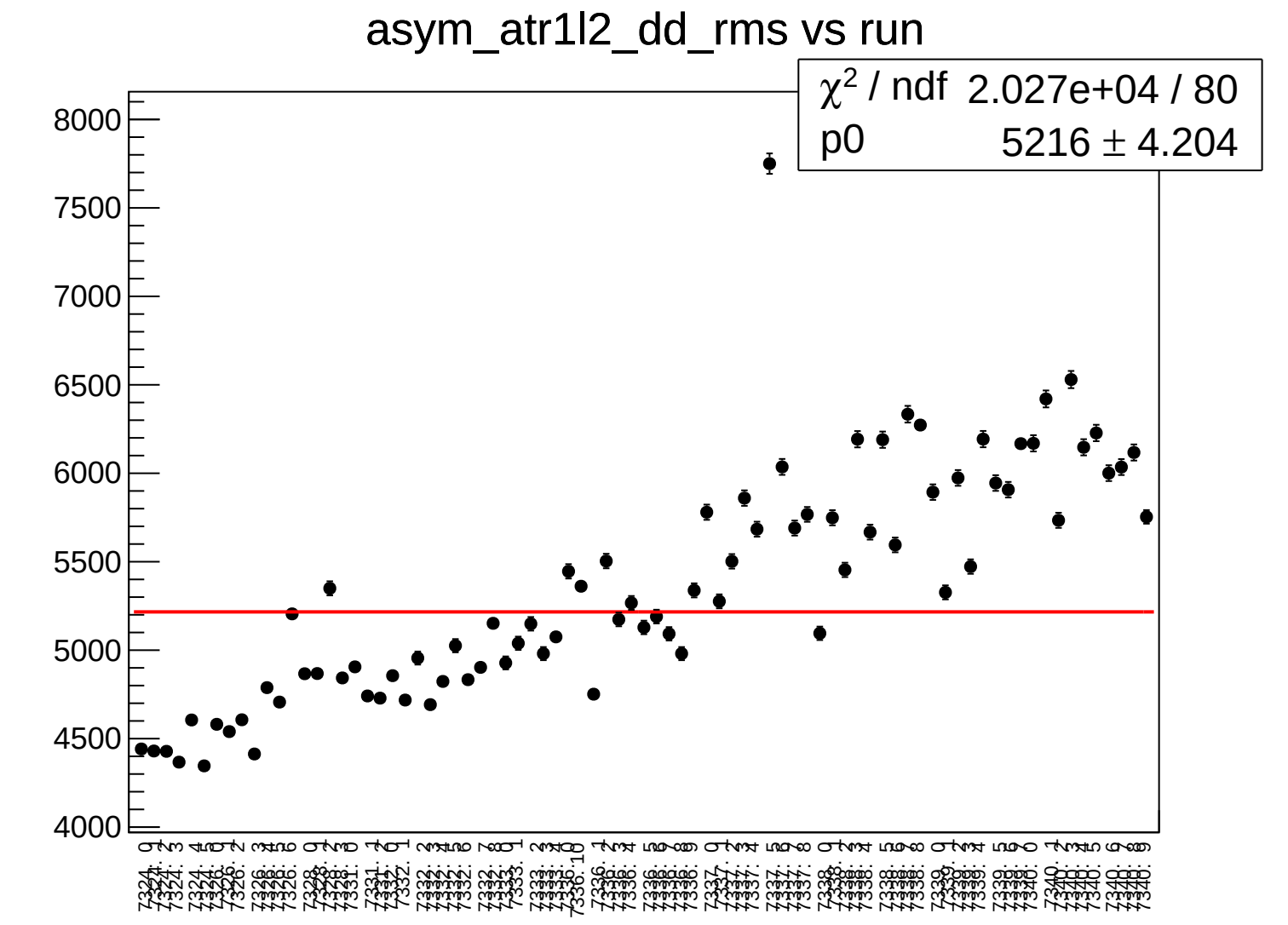

asym_atr1l2_dd_correction_mean vs run
χ² / ndf 80.47 / 80
p0 1444 ± 5585
×10³
pull
Entries 81
Mean 246.1
Std Dev 214.7

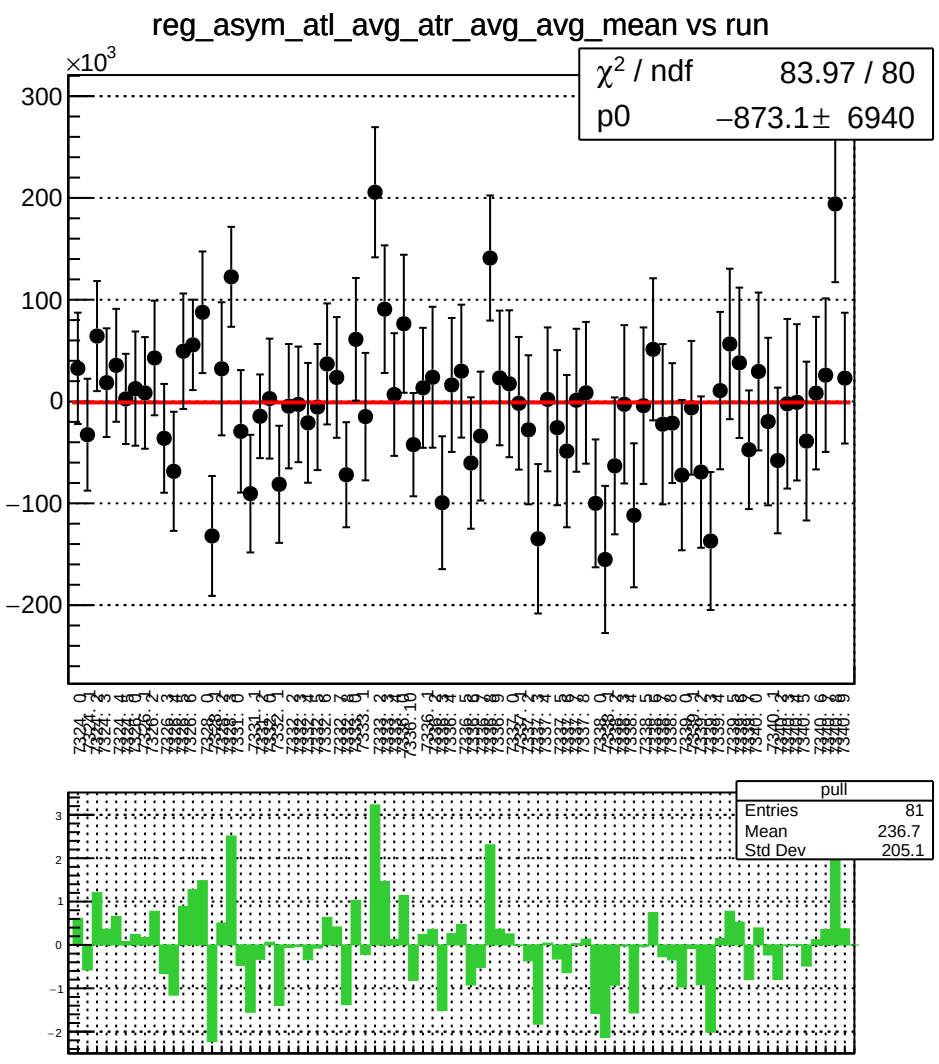

pull1D
Entries 81
Mean −0.0148
Std Dev 0.9966

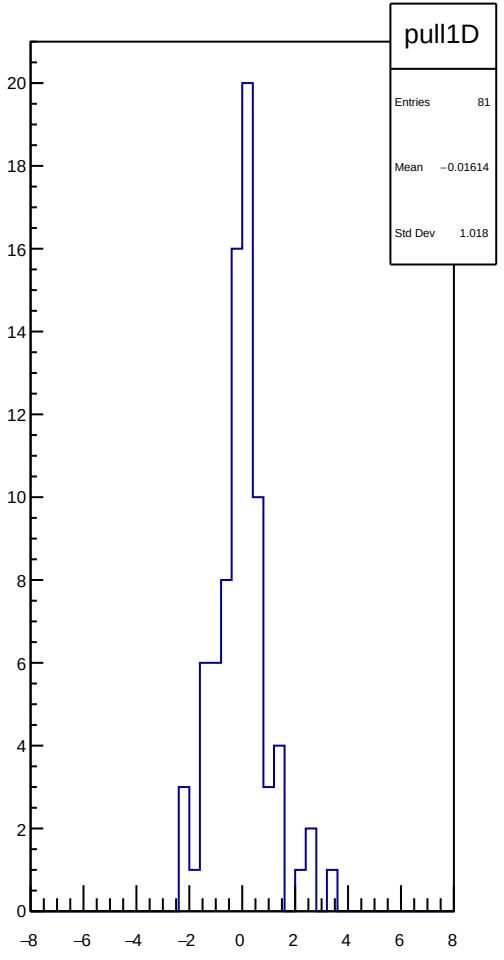

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 2.286e+04 / 80
p0 4896 ± 3.949
6500
6000
5500
5000
4500
4000

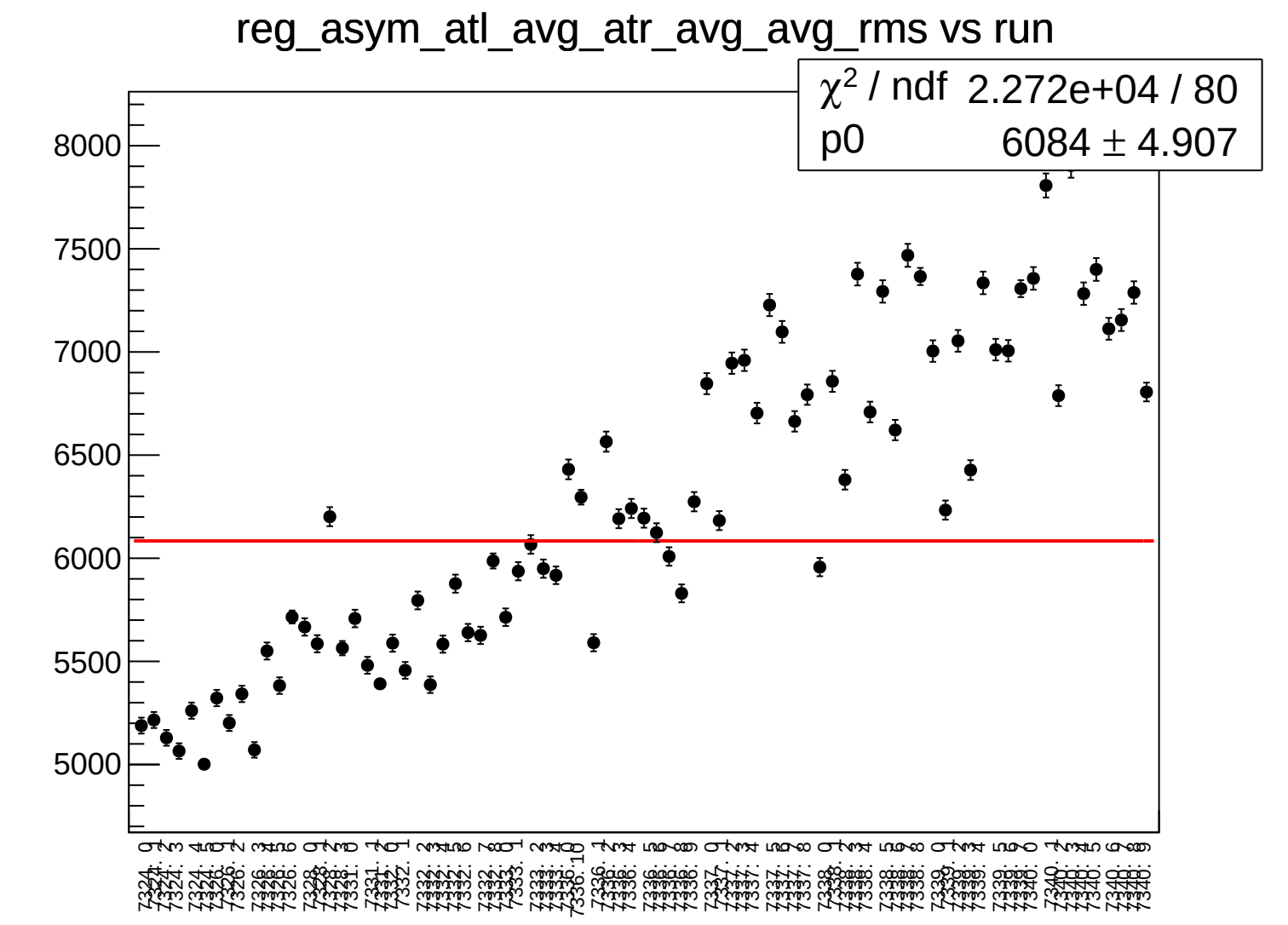

asym_atr1l2_dd_mean vs run
×10^3
χ² / ndf 88.24 / 80
p0 −3662 ± 5945
200
100
0
−100
−200
pull
Entries 81
Mean 294
Std Dev 263.5
2
1
0
−1
−2
−3

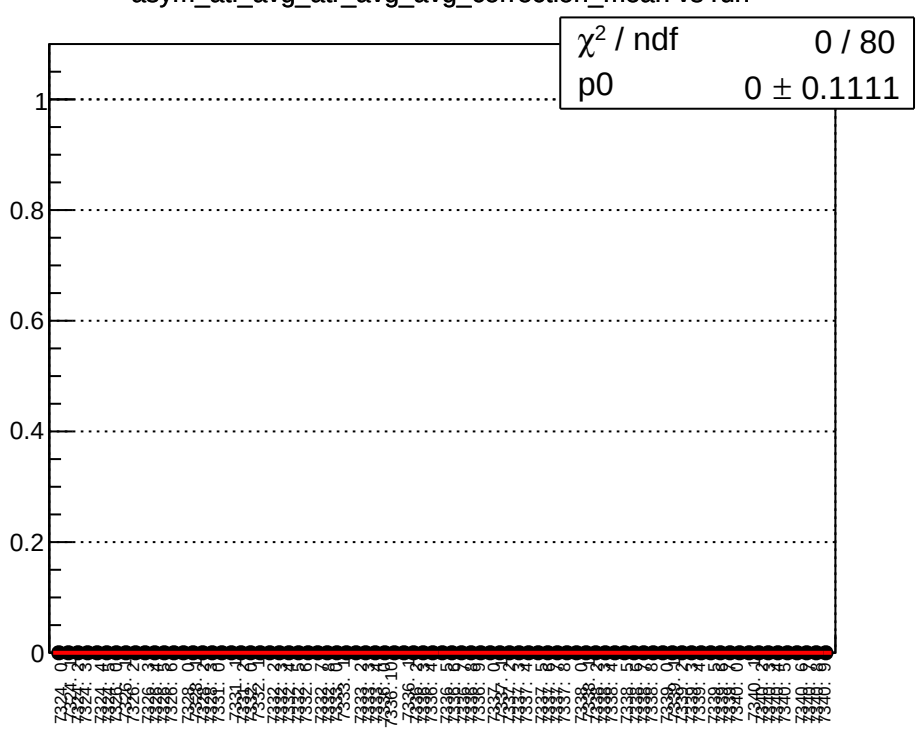

pull1D
Entries 81
Mean 0.01038
Std Dev 1.044
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

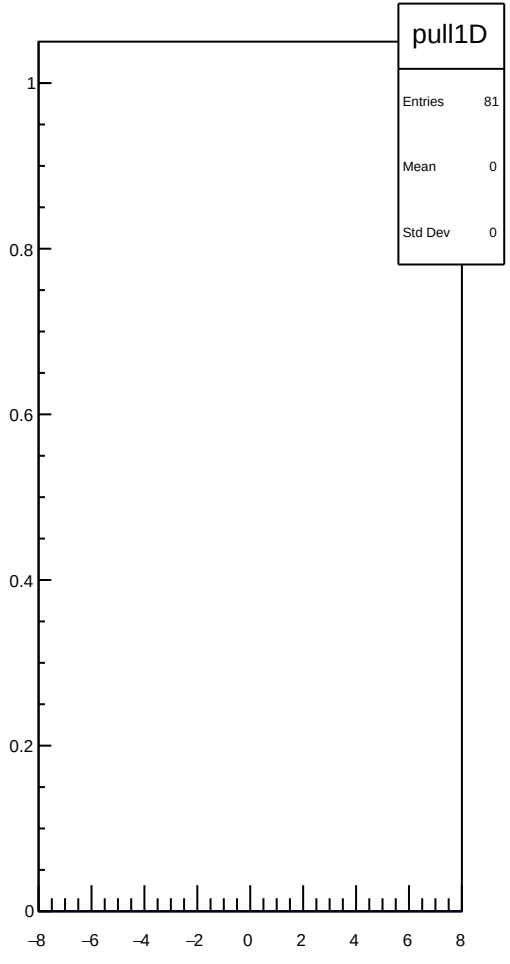

asym_atr1l2_dd_rms vs run
χ² / ndf 2.027e+04 / 80
p0 5216 ± 4.204
8000
7500
7000
6500
6000
5500
5000
4500
4000

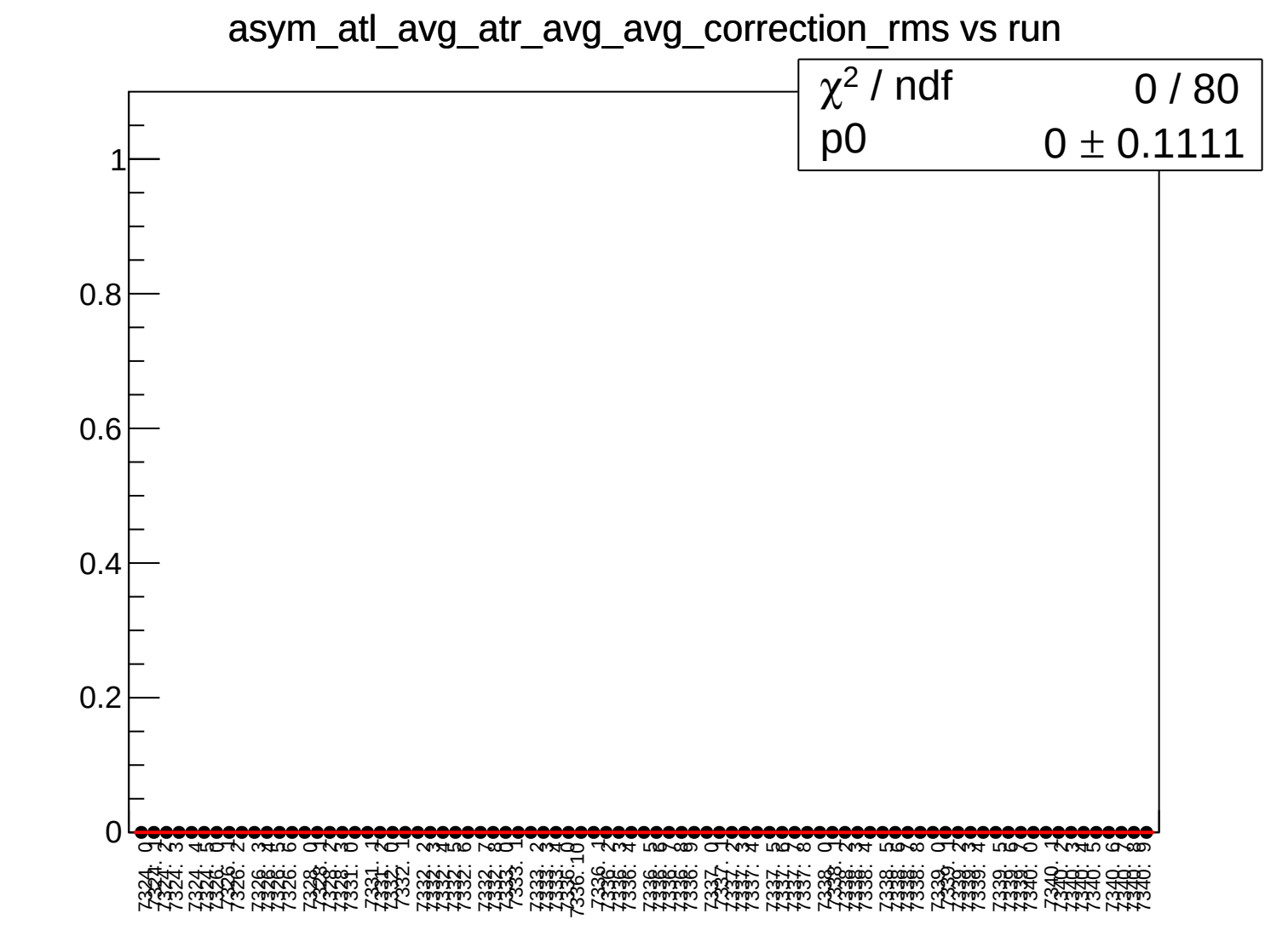

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 83.97 / 80
p0 −873.1± 6940
pull
Entries 81
Mean 236.7
Std Dev 205.1

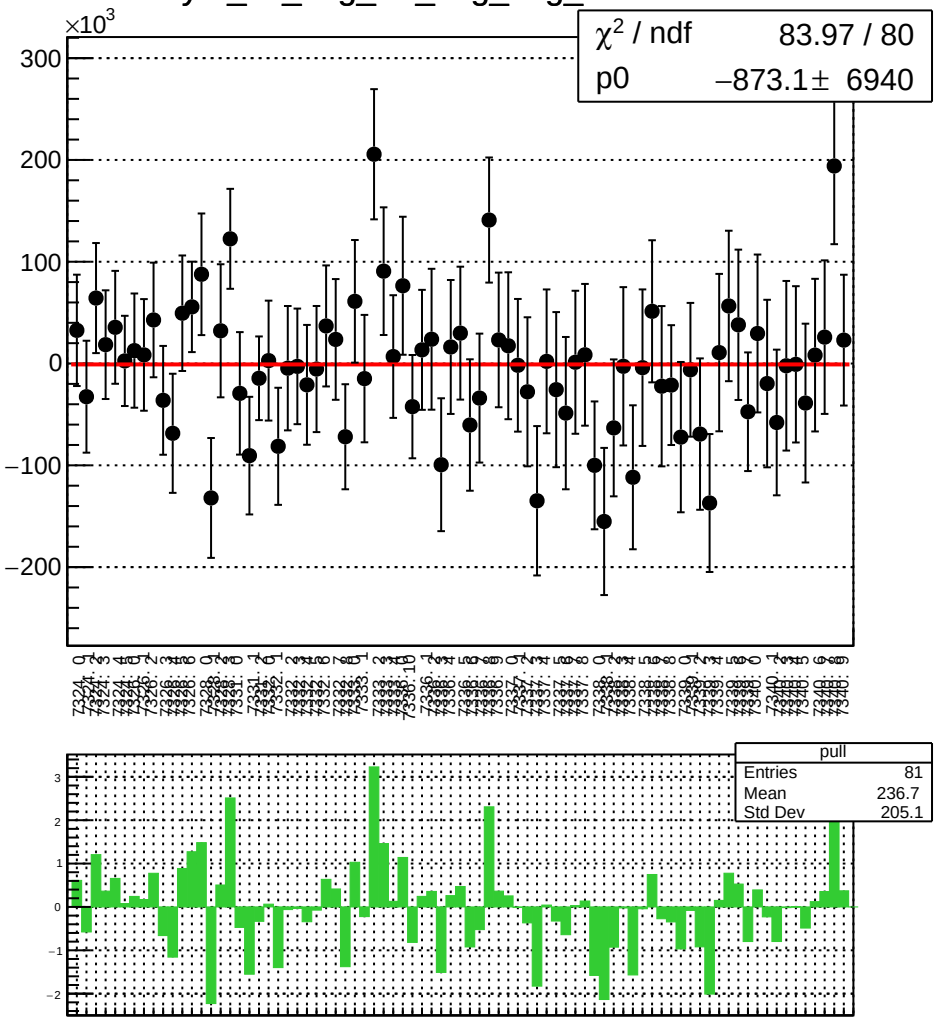

pull1D
Entries 81
Mean −0.01614
Std Dev 1.018

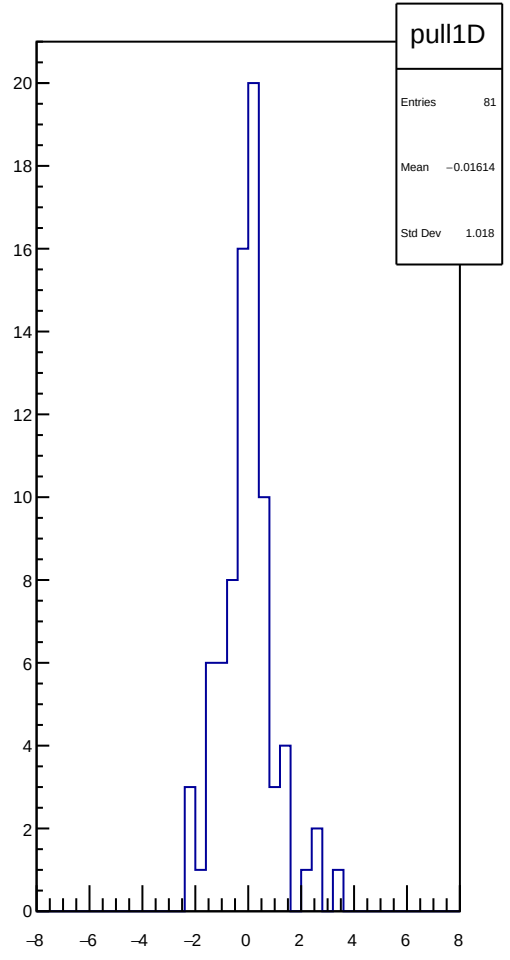

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.272e+04 / 80
p0 6084 ± 4.907
8000
7500
7000
6500
6000
5500
5000

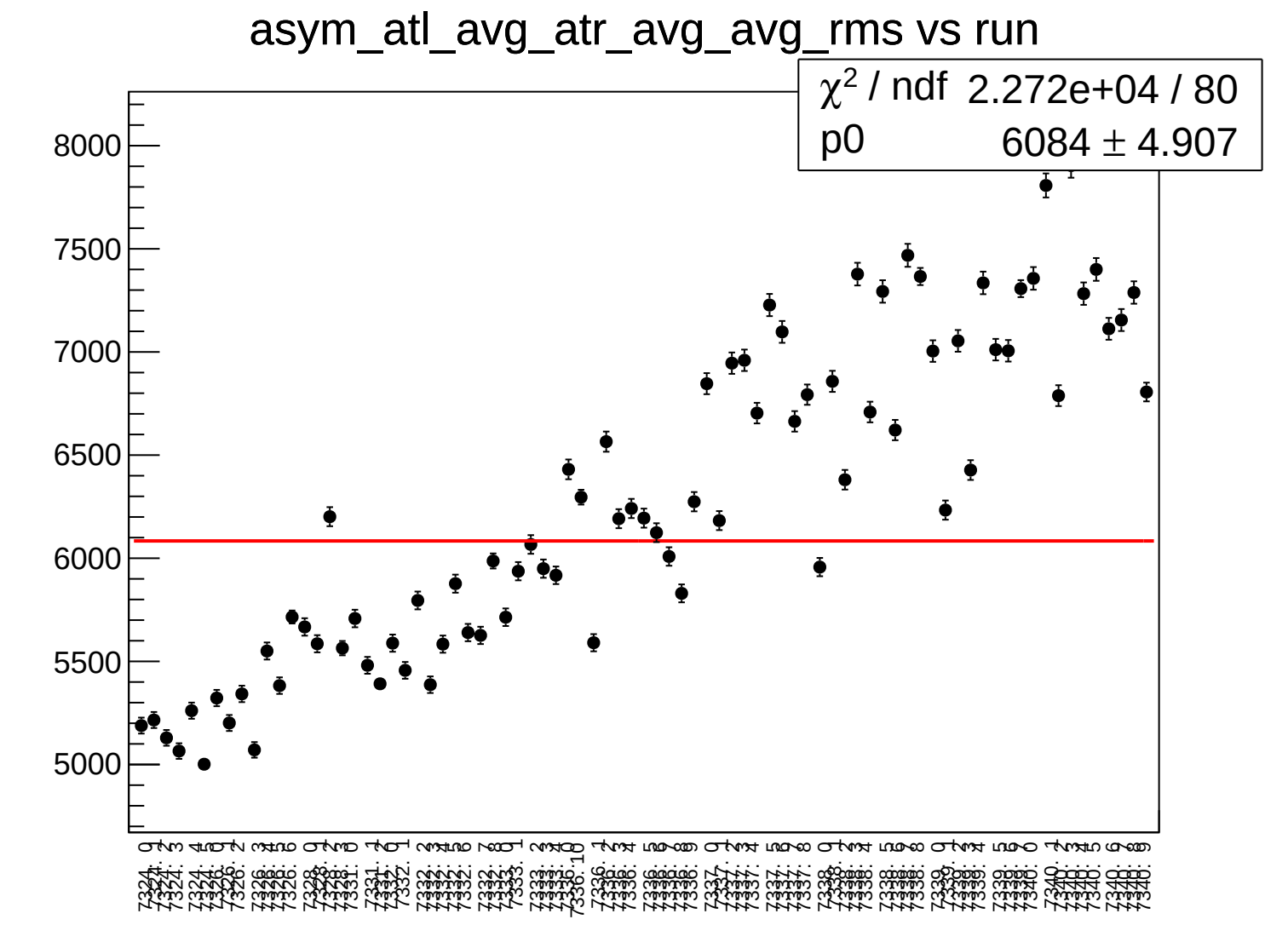

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

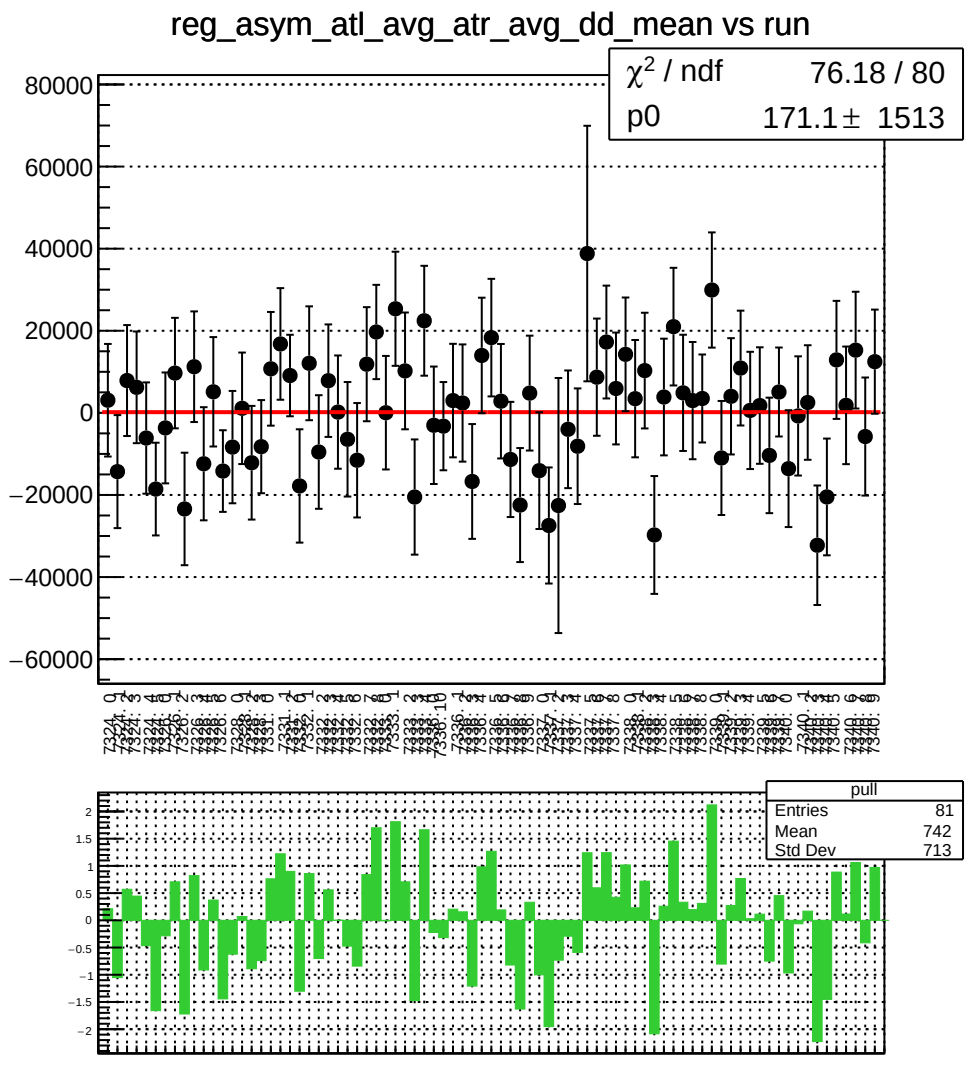

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

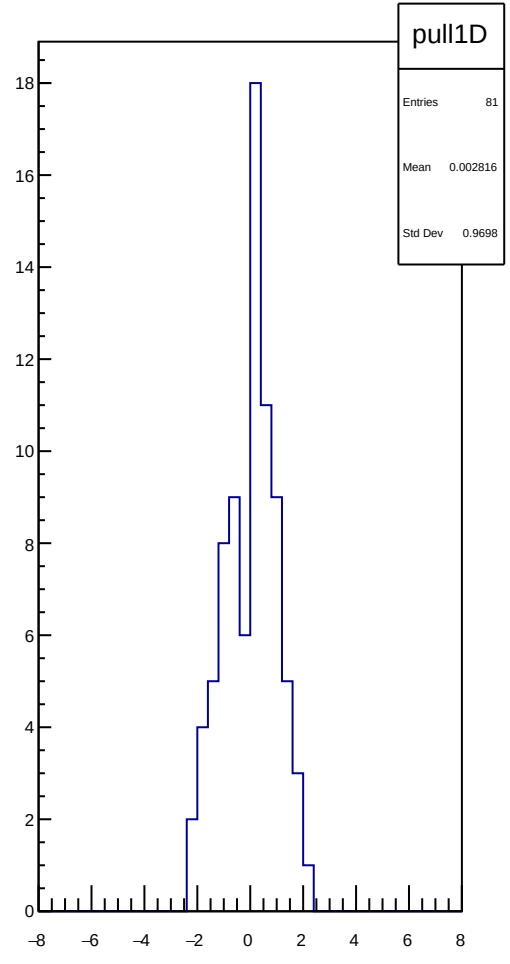

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

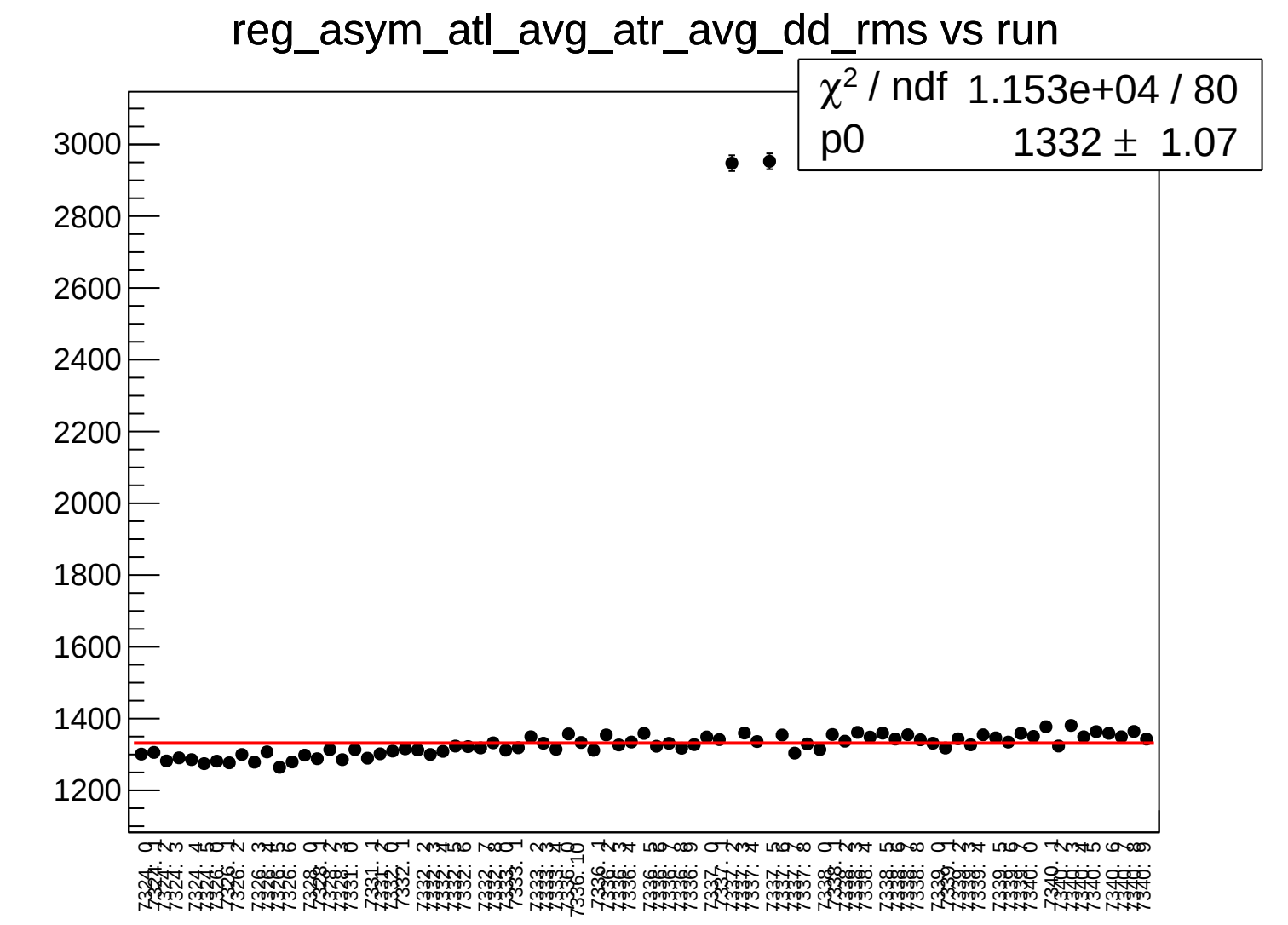

asym_atl_avg_atr_avg_avg_mean vs run
χ² / ndf 83.97 / 80
p0 −873.1± 6940
×10³
pull
Entries 81
Mean 236.7
Std Dev 205.1

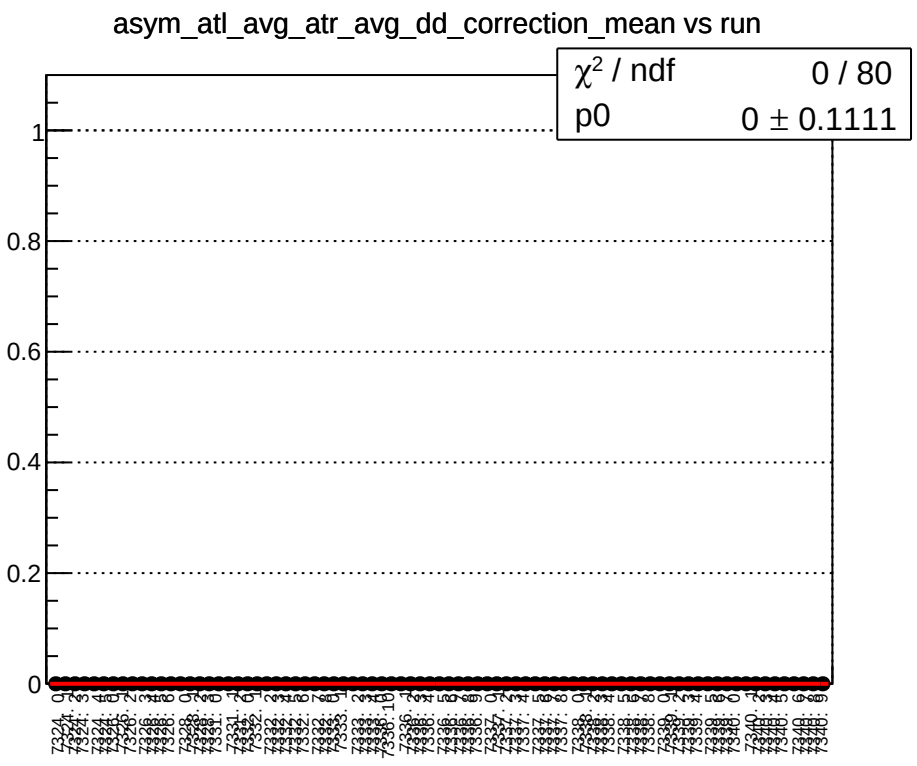

pull1D
Entries 81
Mean −0.01614
Std Dev 1.018

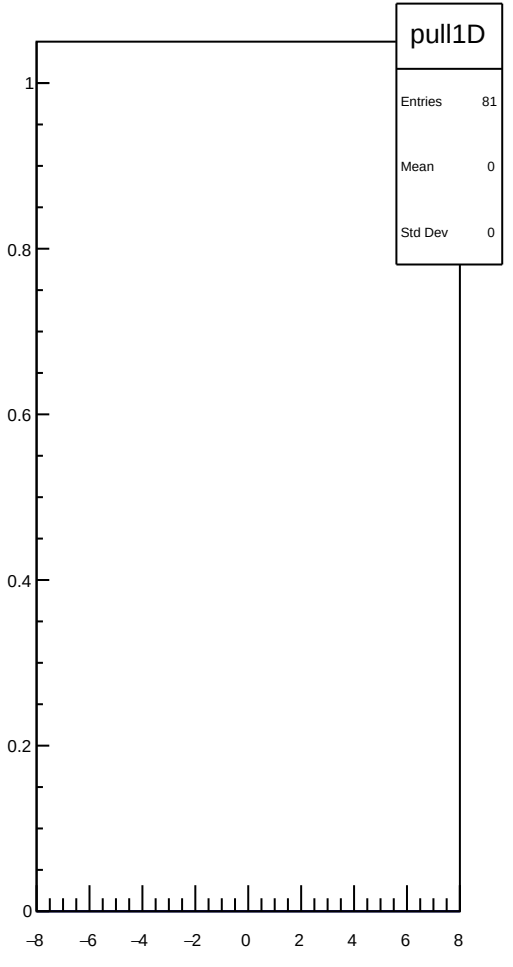

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 2.272e+04 / 80
p0 6084 ± 4.907
8000
7500
7000
6500
6000
5500
5000

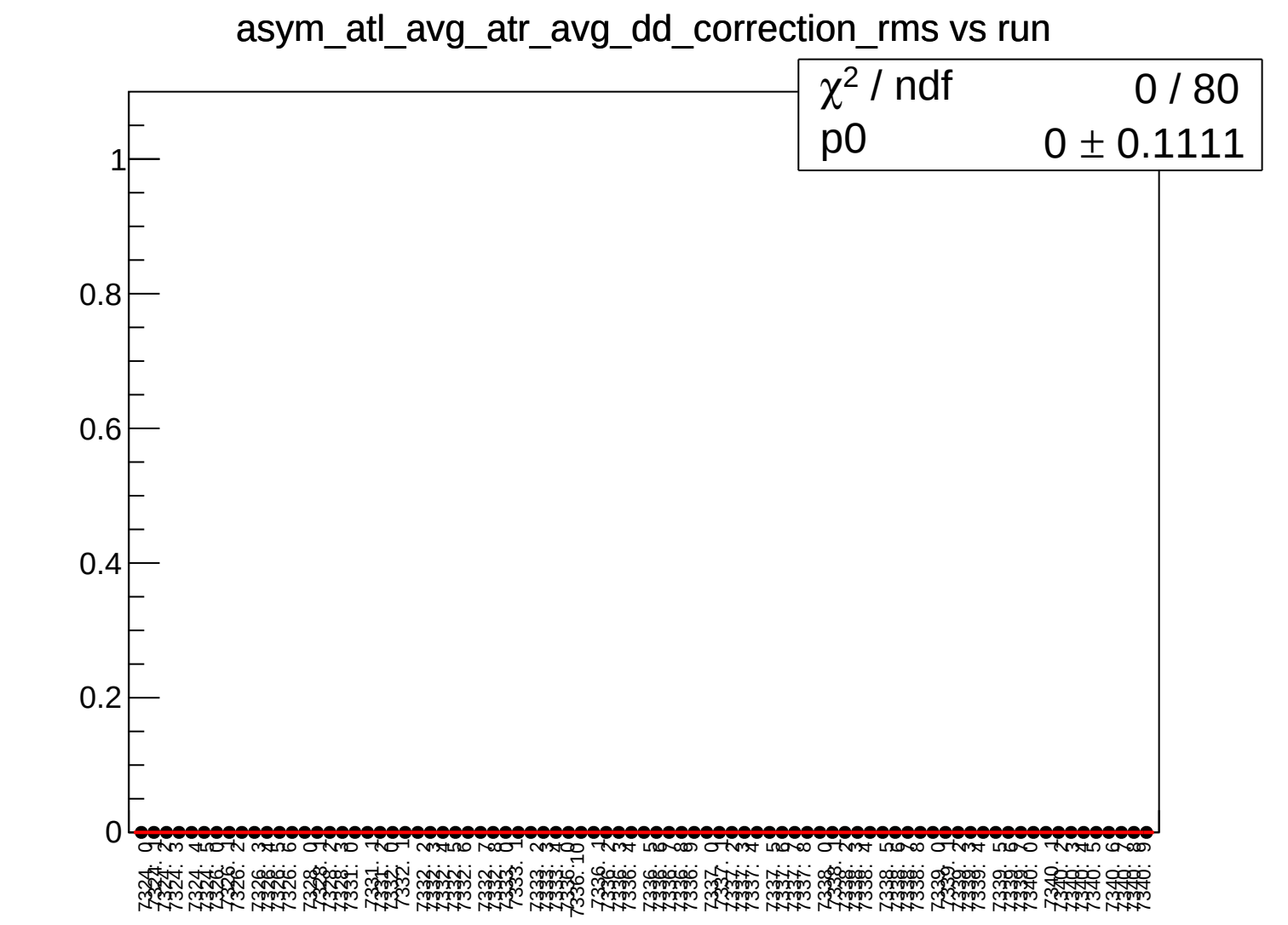

reg_asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.18 / 80
p0 171.1± 1513
pull
Entries 81
Mean 742
Std Dev 713

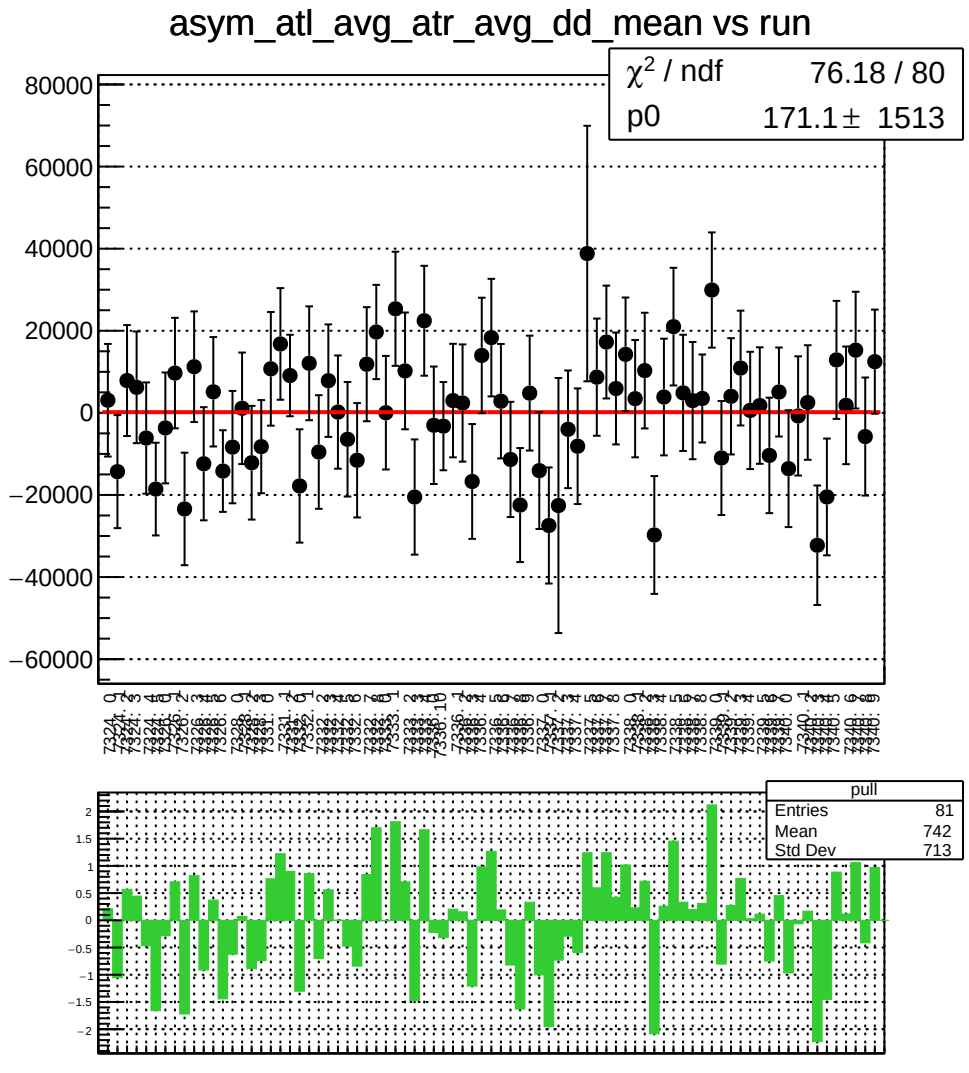

pull1D
Entries 81
Mean 0.002816
Std Dev 0.9698

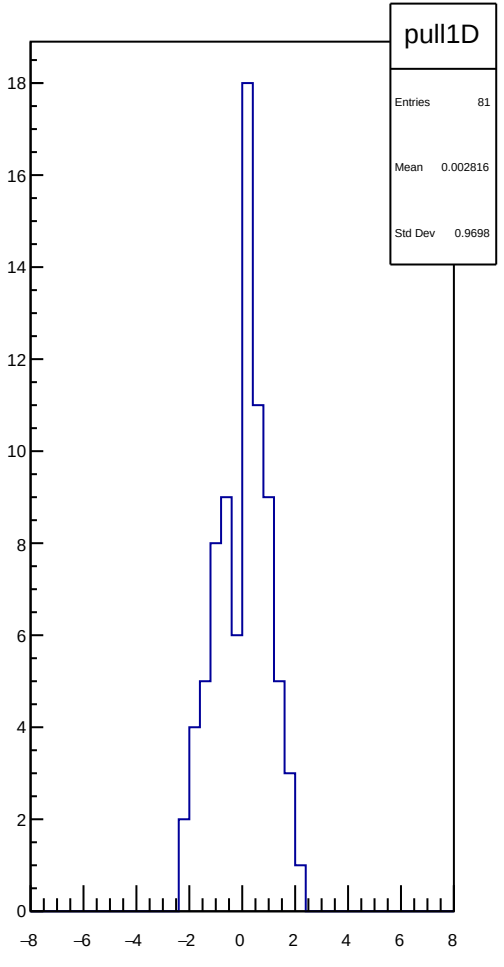

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.153e+04 / 80
p0 1332 ± 1.07
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

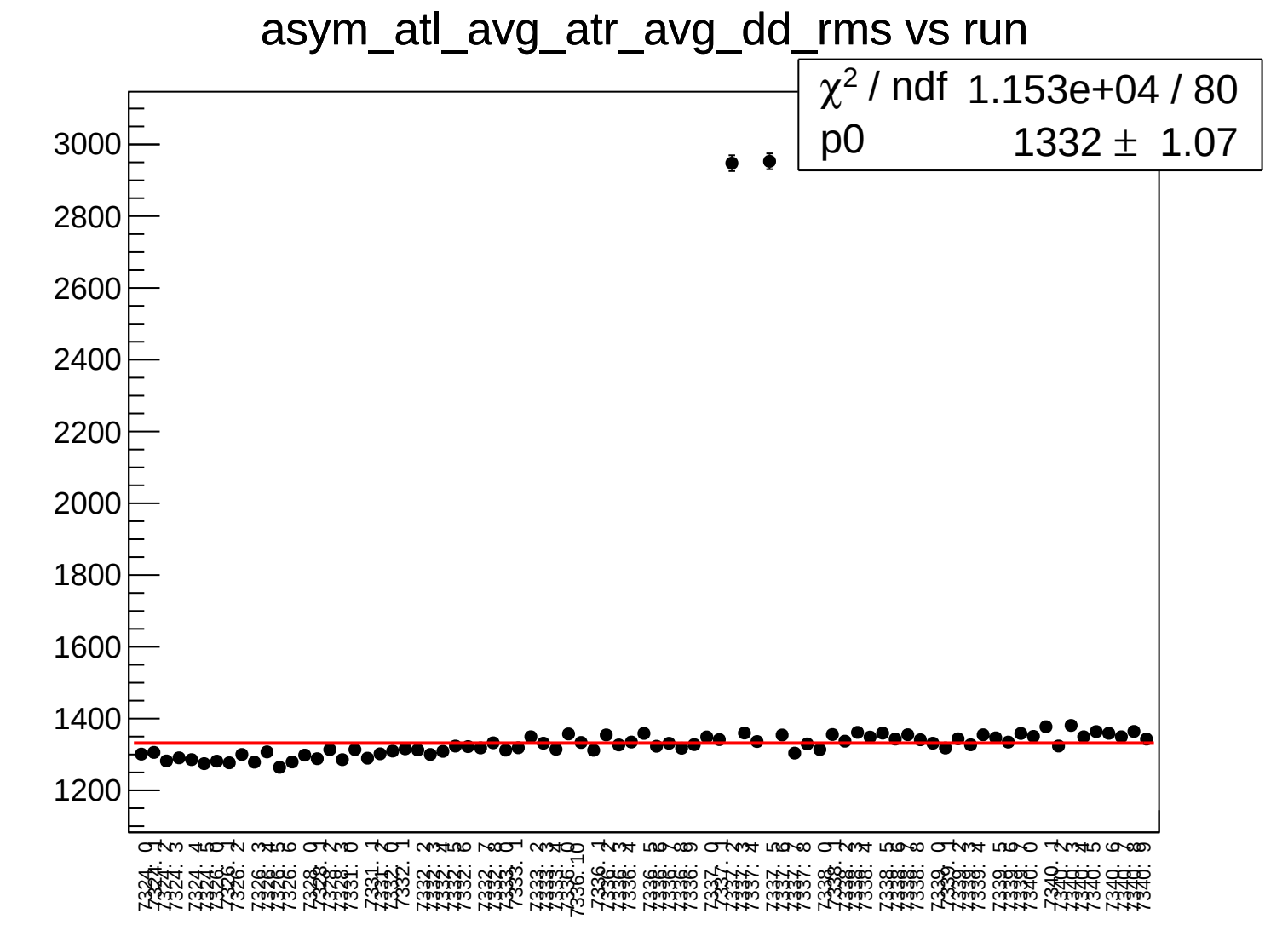

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

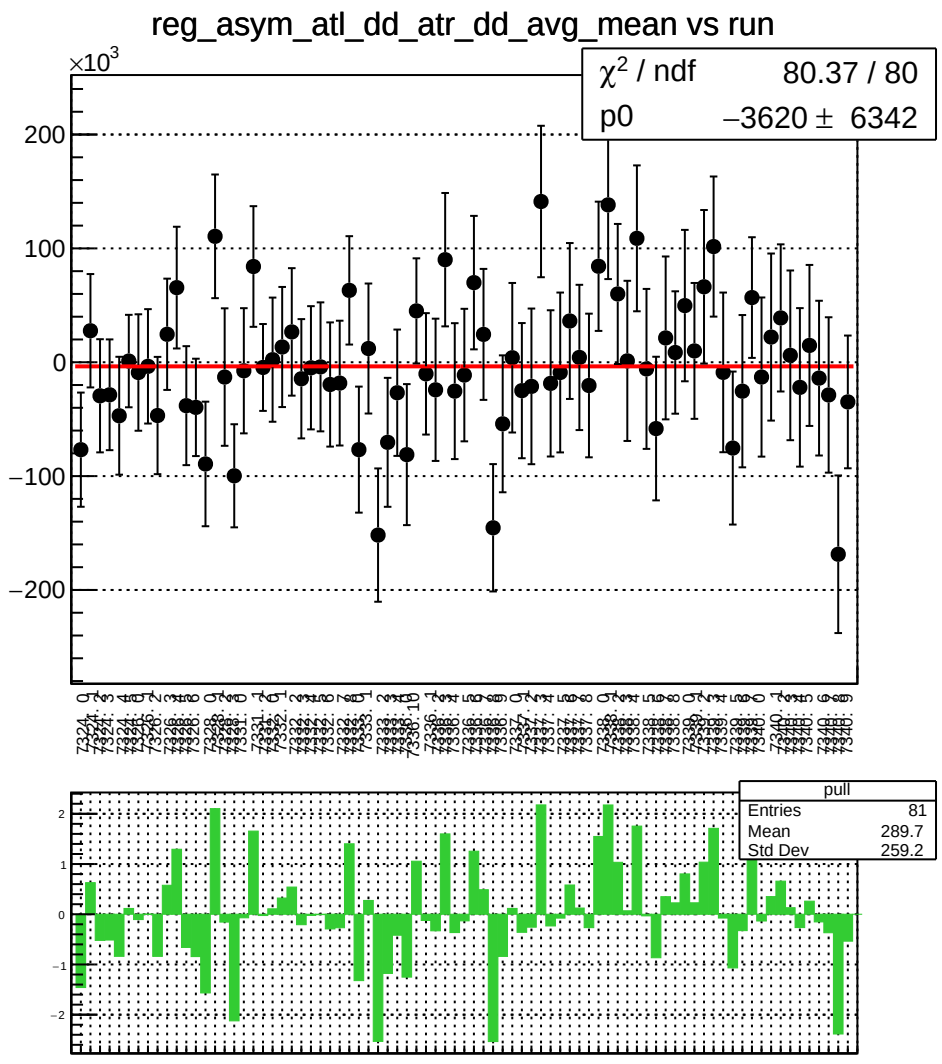

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

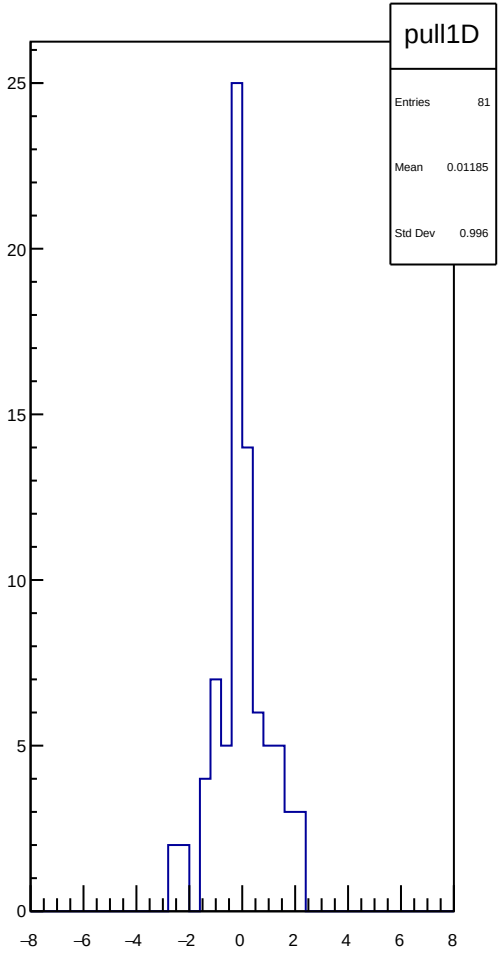

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

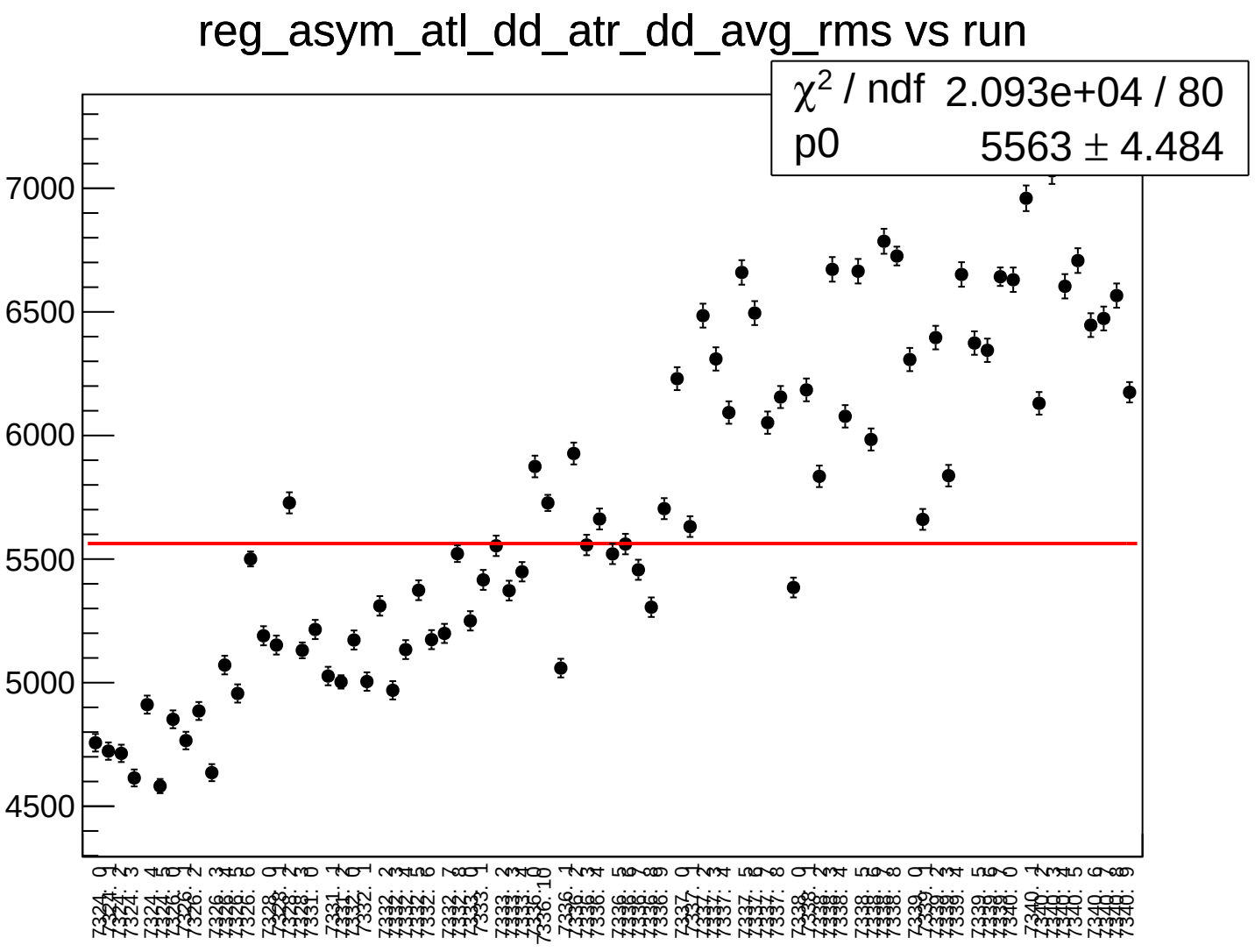

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 76.18 / 80
p0 171.1± 1513
pull
Entries 81
Mean 742
Std Dev 713

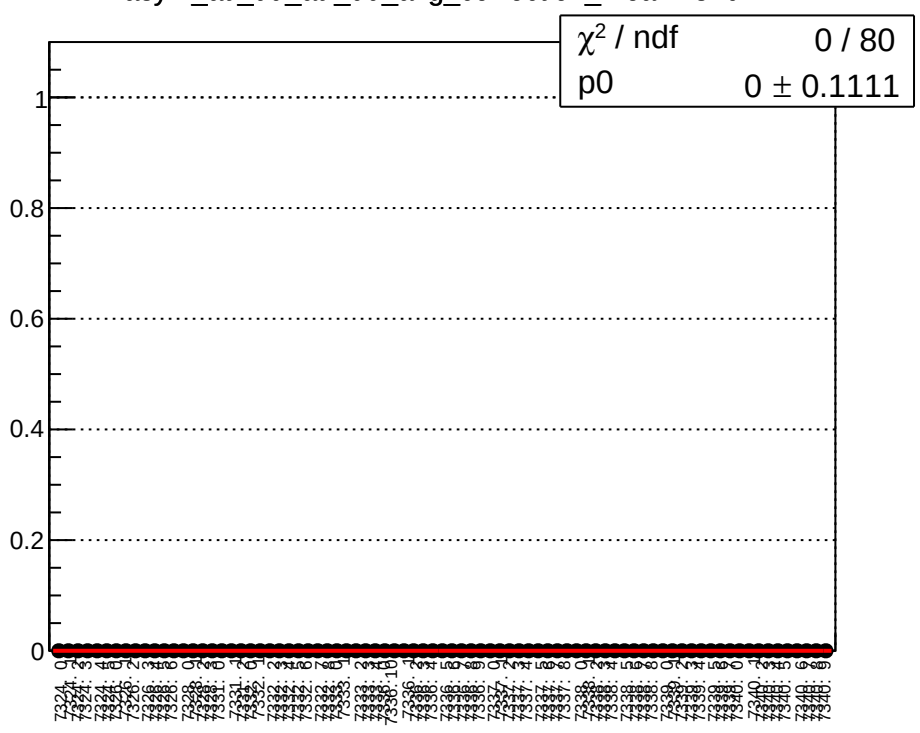

pull1D
Entries 81
Mean 0.002816
Std Dev 0.9698

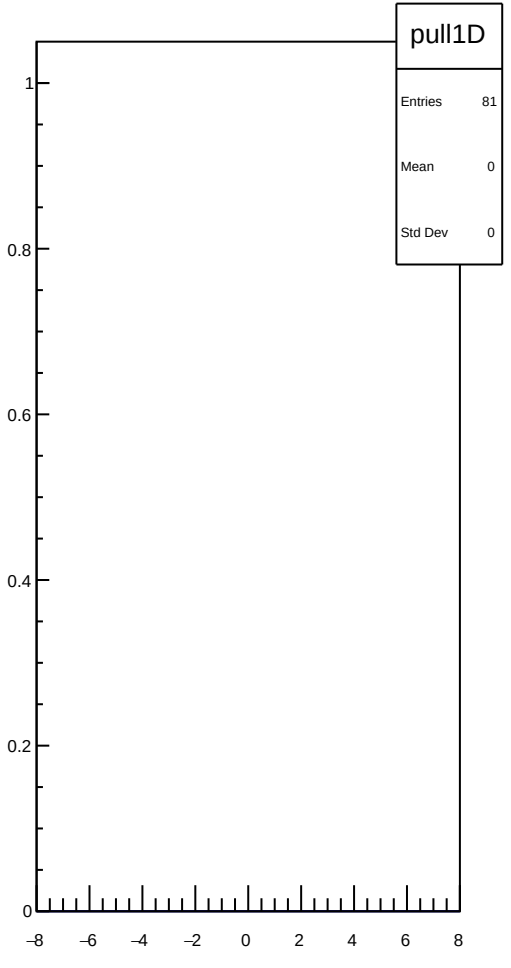

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.153e+04 / 80
p0 1332 ± 1.07
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

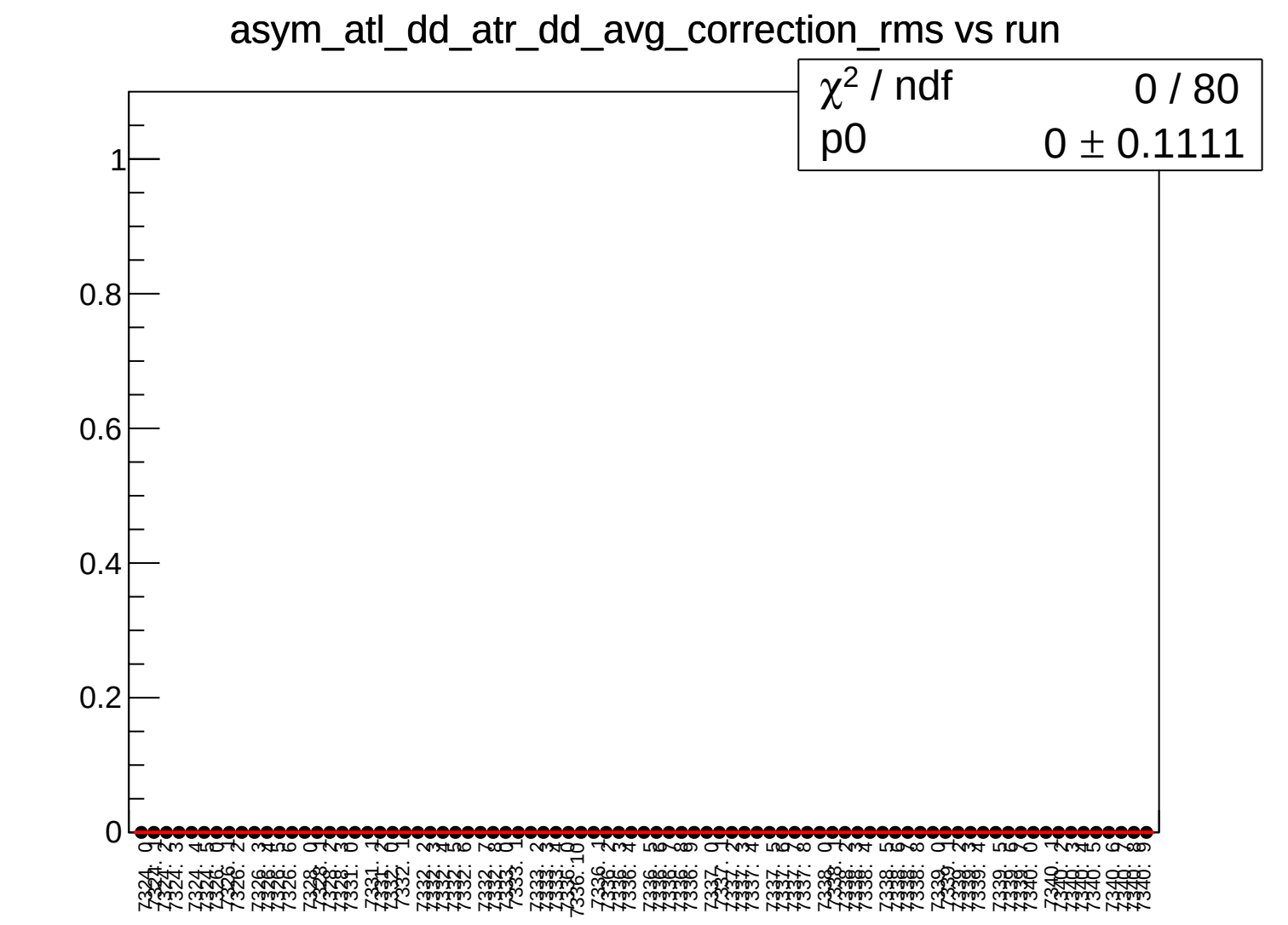

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 80.37 / 80
p0 −3620 ± 6342
200
100
0
−100
−200
pull
Entries 81
Mean 289.7
Std Dev 259.2
2
1
0
−1
−2

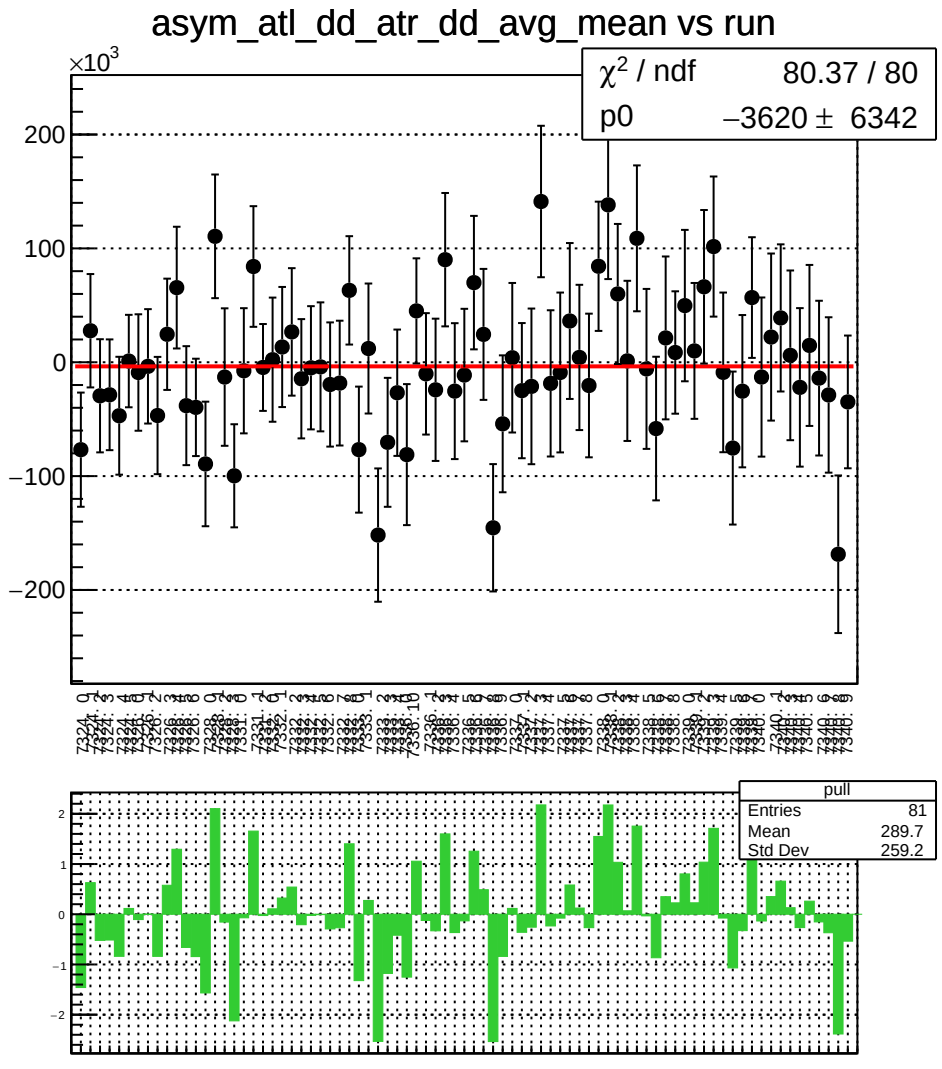

pull1D
Entries 81
Mean 0.01185
Std Dev 0.996
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

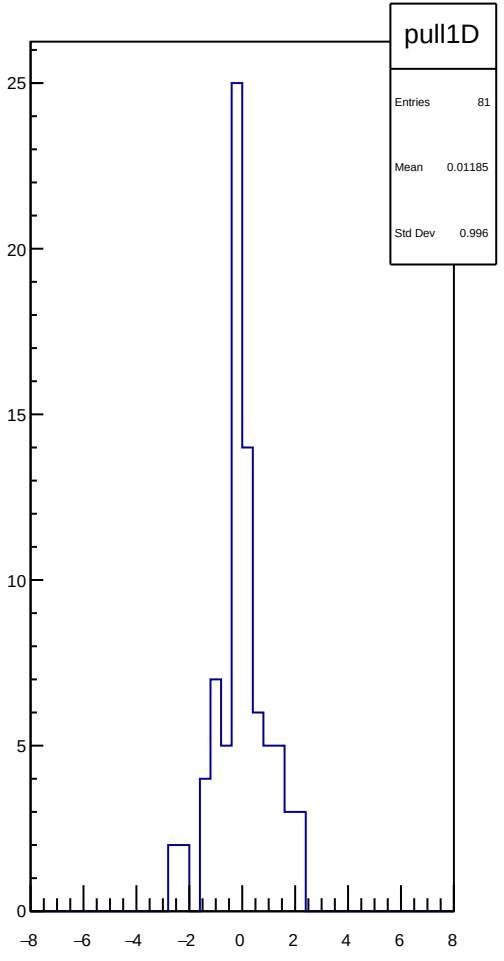

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.093e+04 / 80
p0 5563 ± 4.484
7000
6500
6000
5500
5000
4500

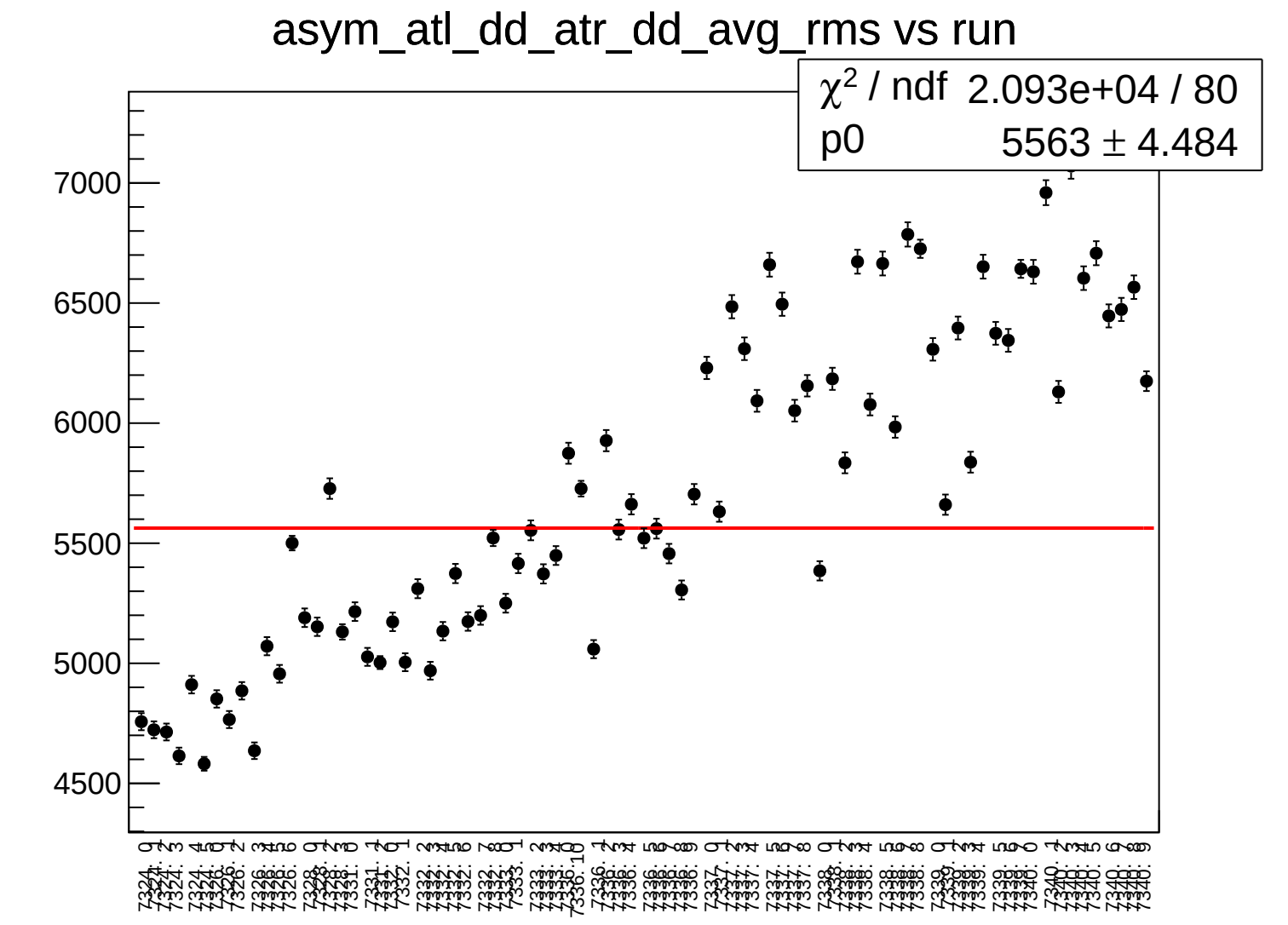

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

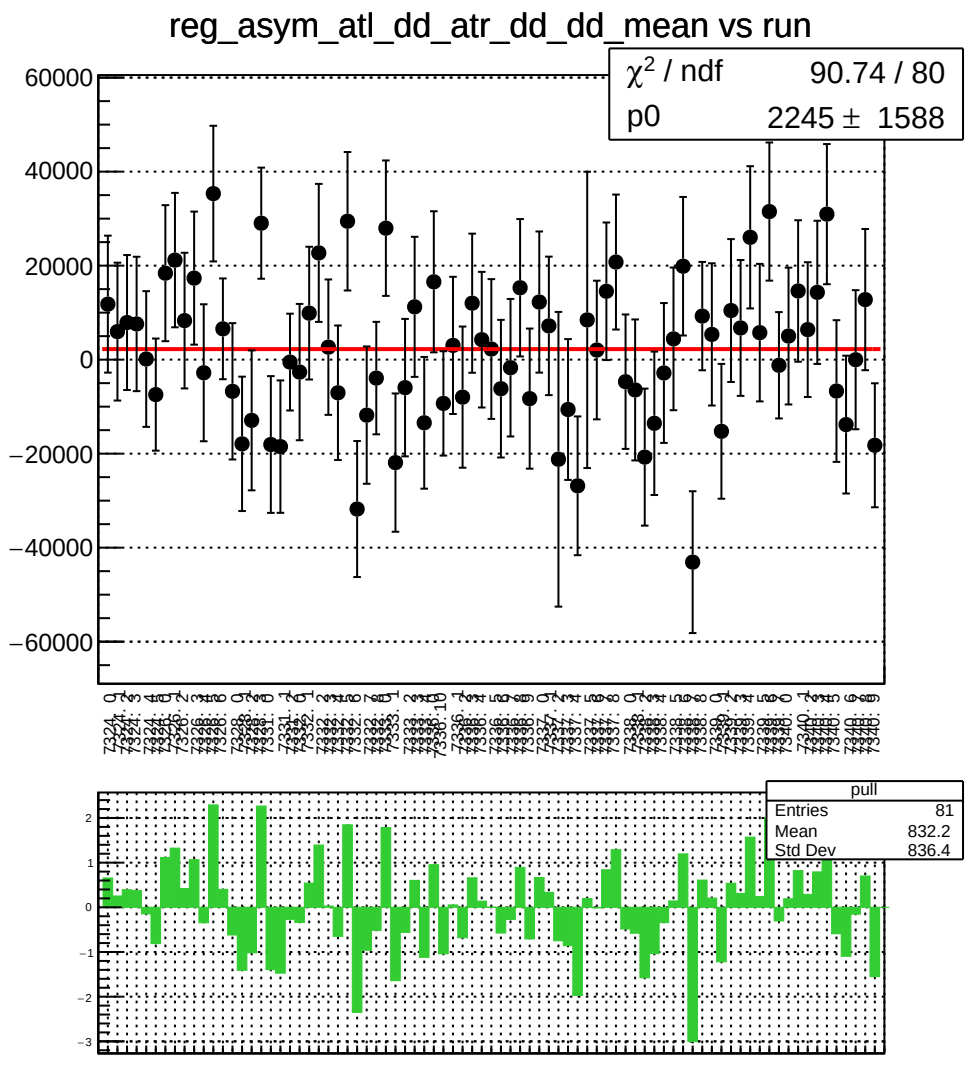

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

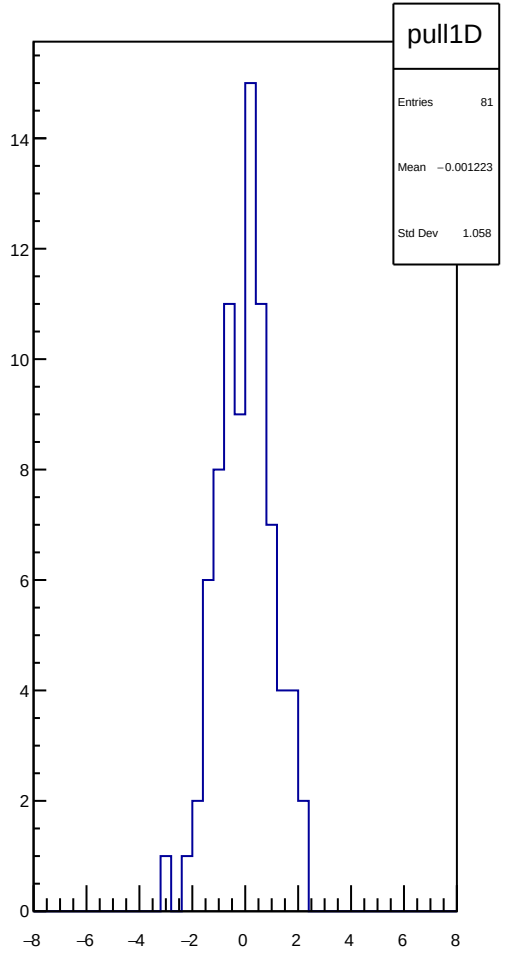

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

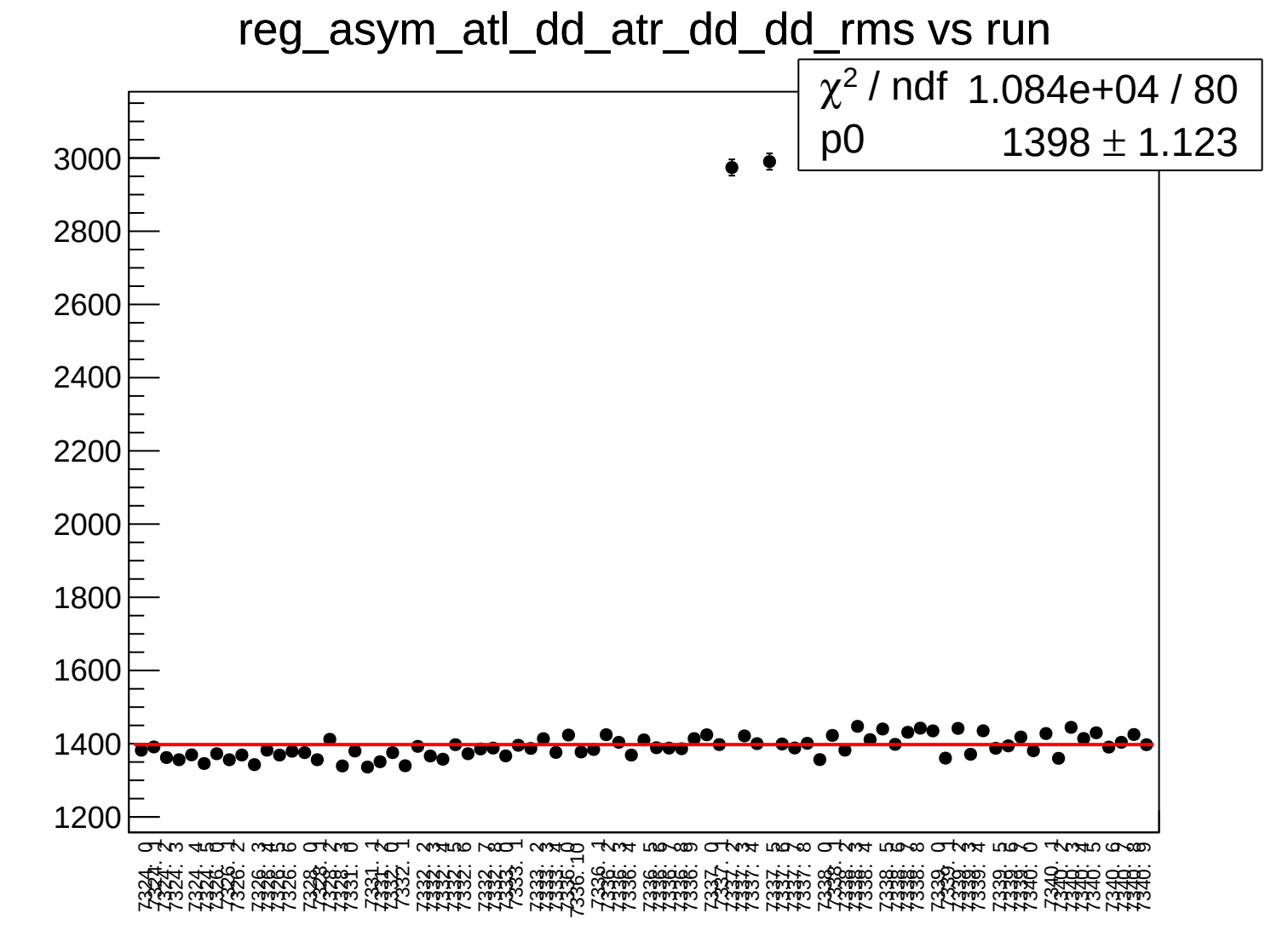

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 80.37 / 80
p0 −3620 ± 6342
200
100
0
−100
−200
pull
Entries 81
Mean 289.7
Std Dev 259.2
2
1
0
−1
−2

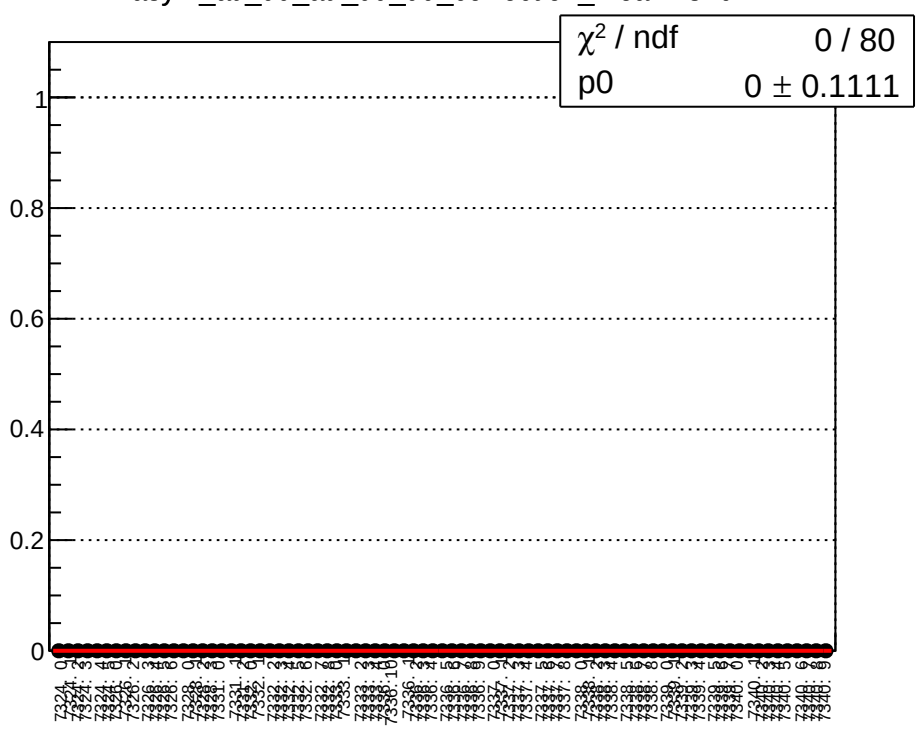

pull1D
Entries 81
Mean 0.01185
Std Dev 0.996
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

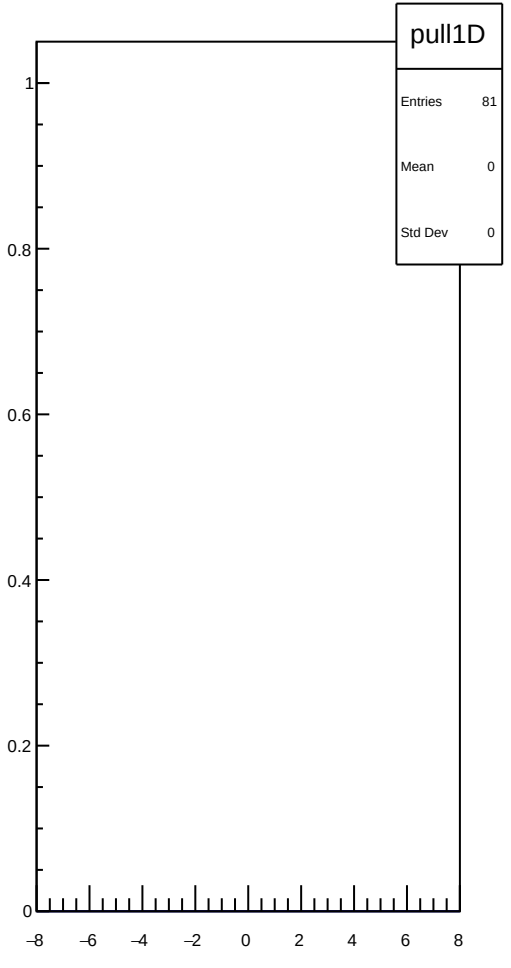

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 2.093e+04 / 80
p0 5563 ± 4.484
7000
6500
6000
5500
5000
4500

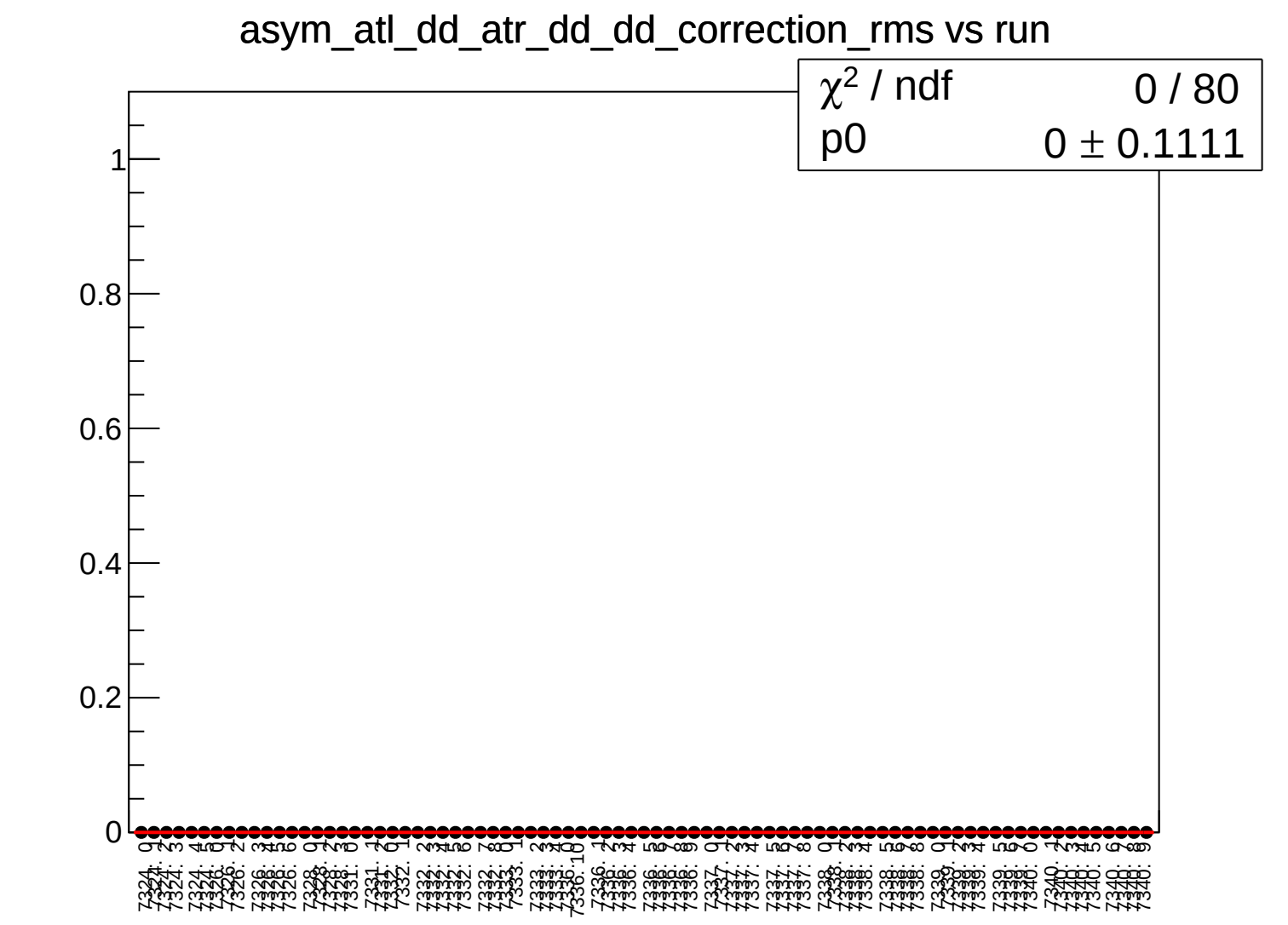

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 90.74 / 80
p0 2245 ± 1588
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 832.2
Std Dev 836.4
2
1
0
−1
−2
−3

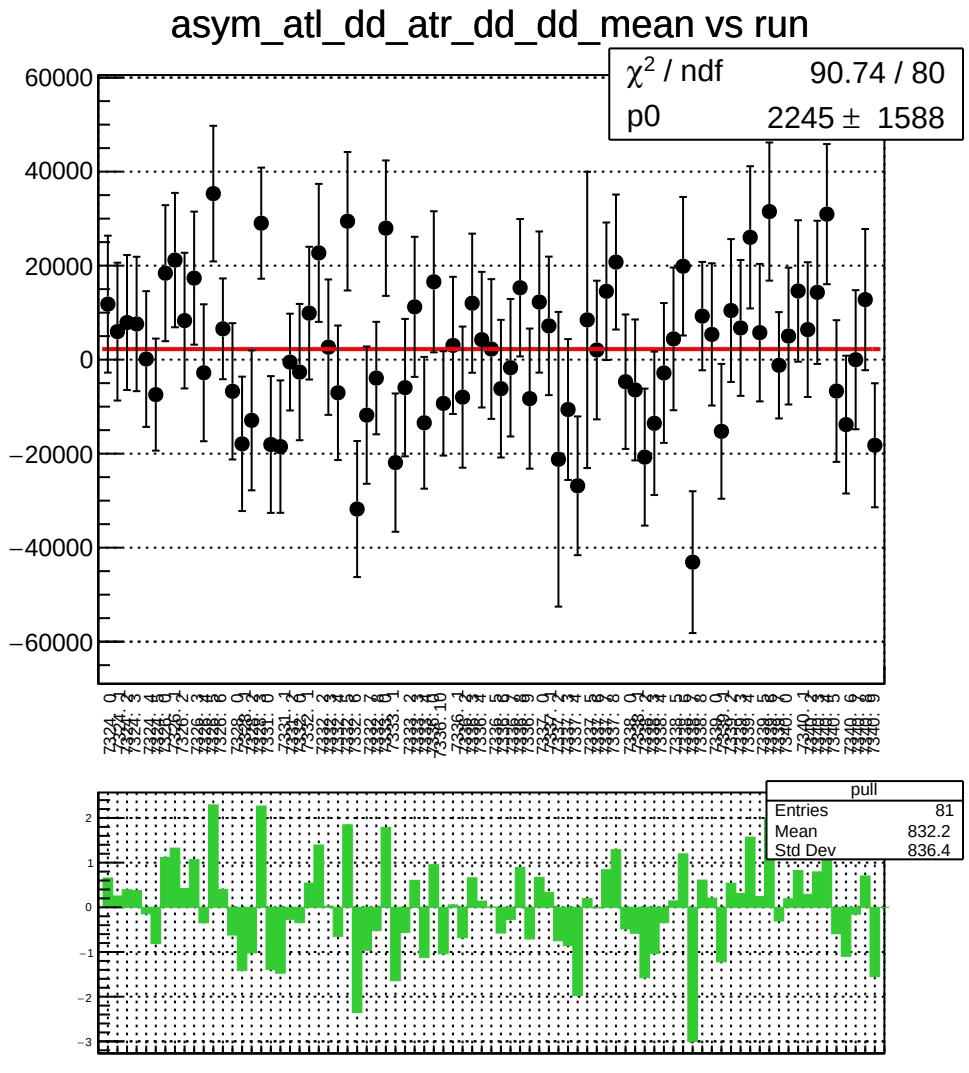

pull1D
Entries 81
Mean −0.001223
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

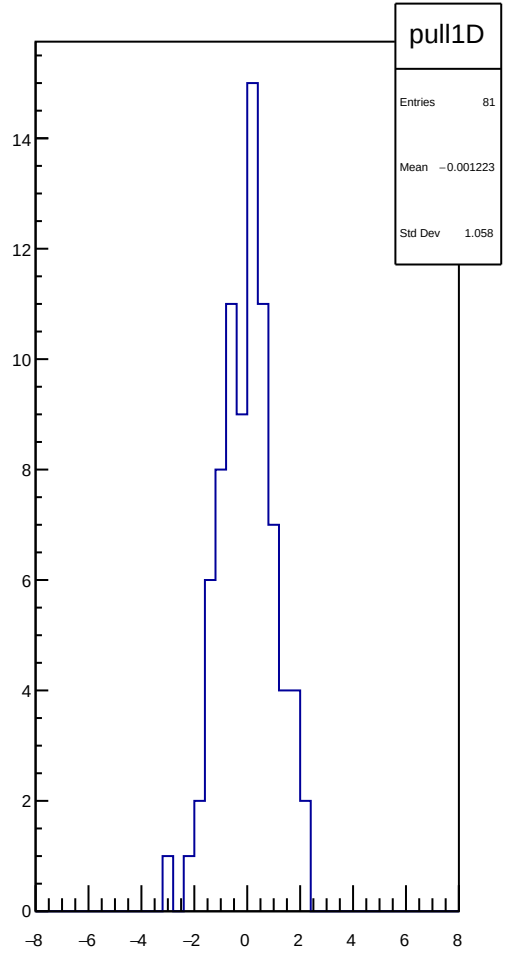

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.084e+04 / 80
p0 1398 ± 1.123
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

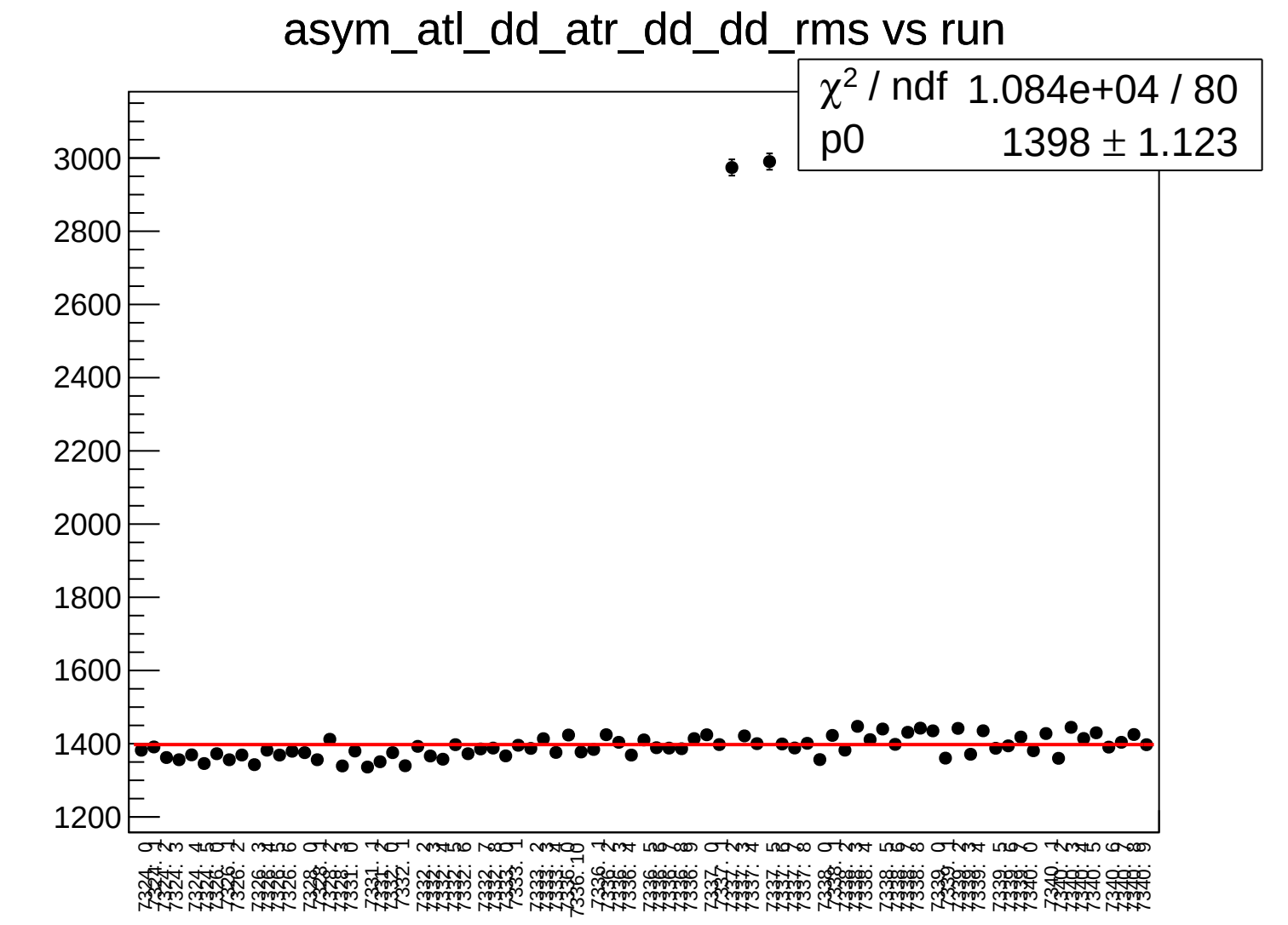

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

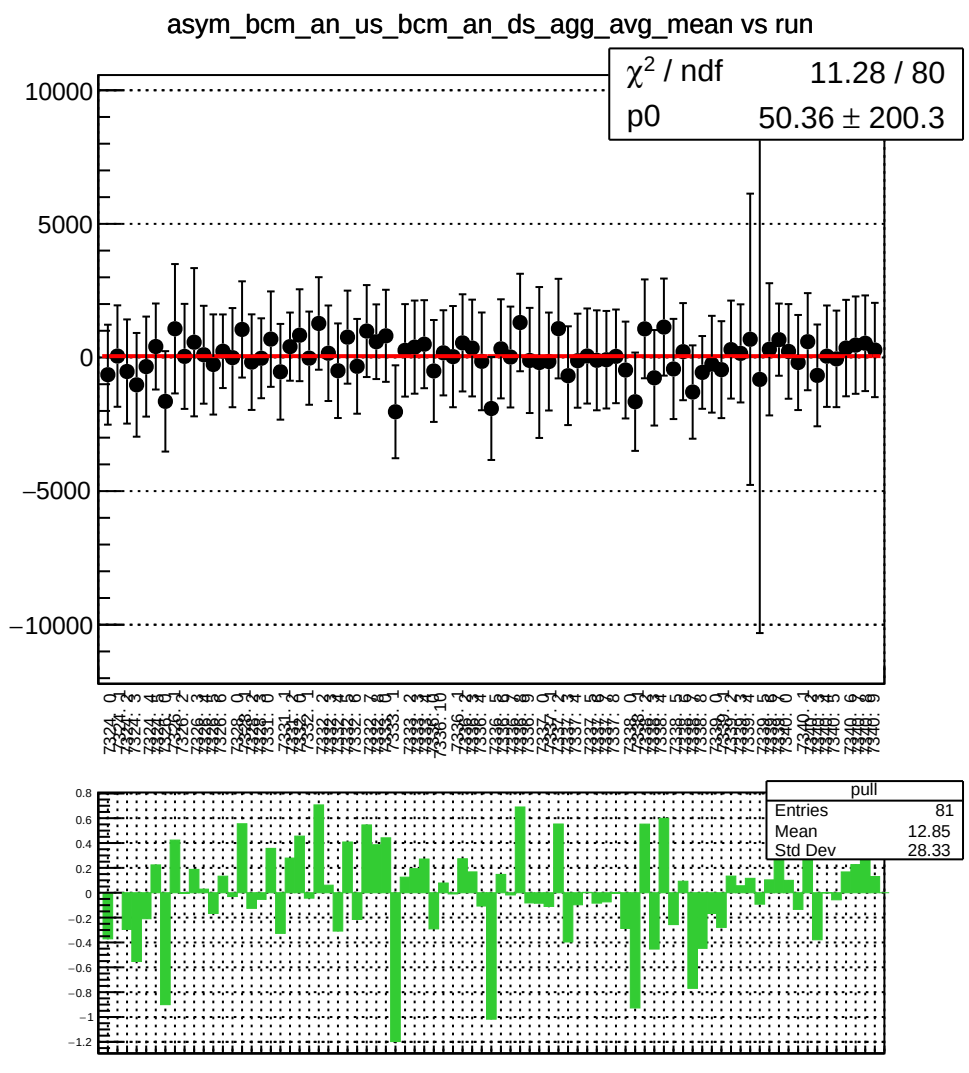

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

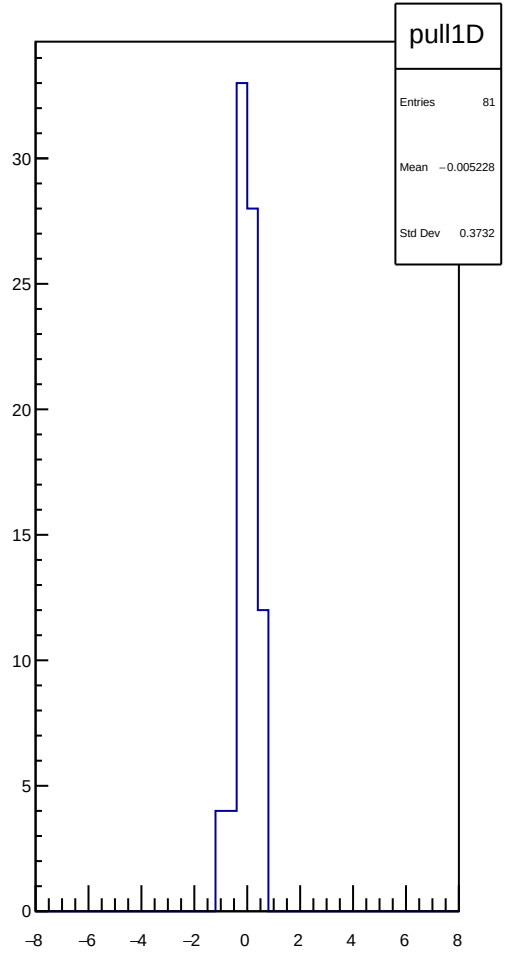

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 80
p0 0 ± 0.1111
1
0.8
0.6
0.4
0.2
0

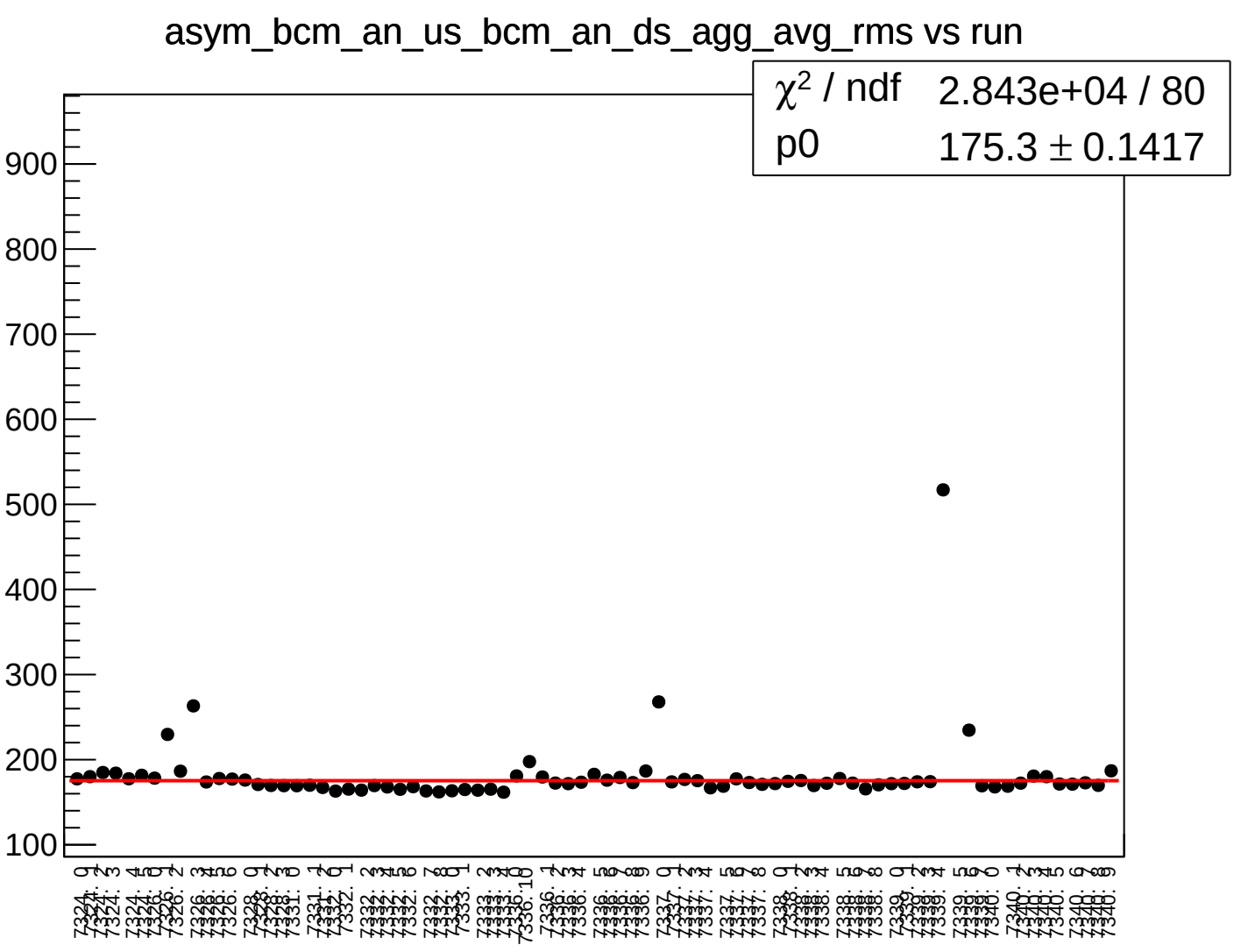

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 90.74 / 80
p0 2245 ± 1588
pull
Entries 81
Mean 832.2
Std Dev 836.4

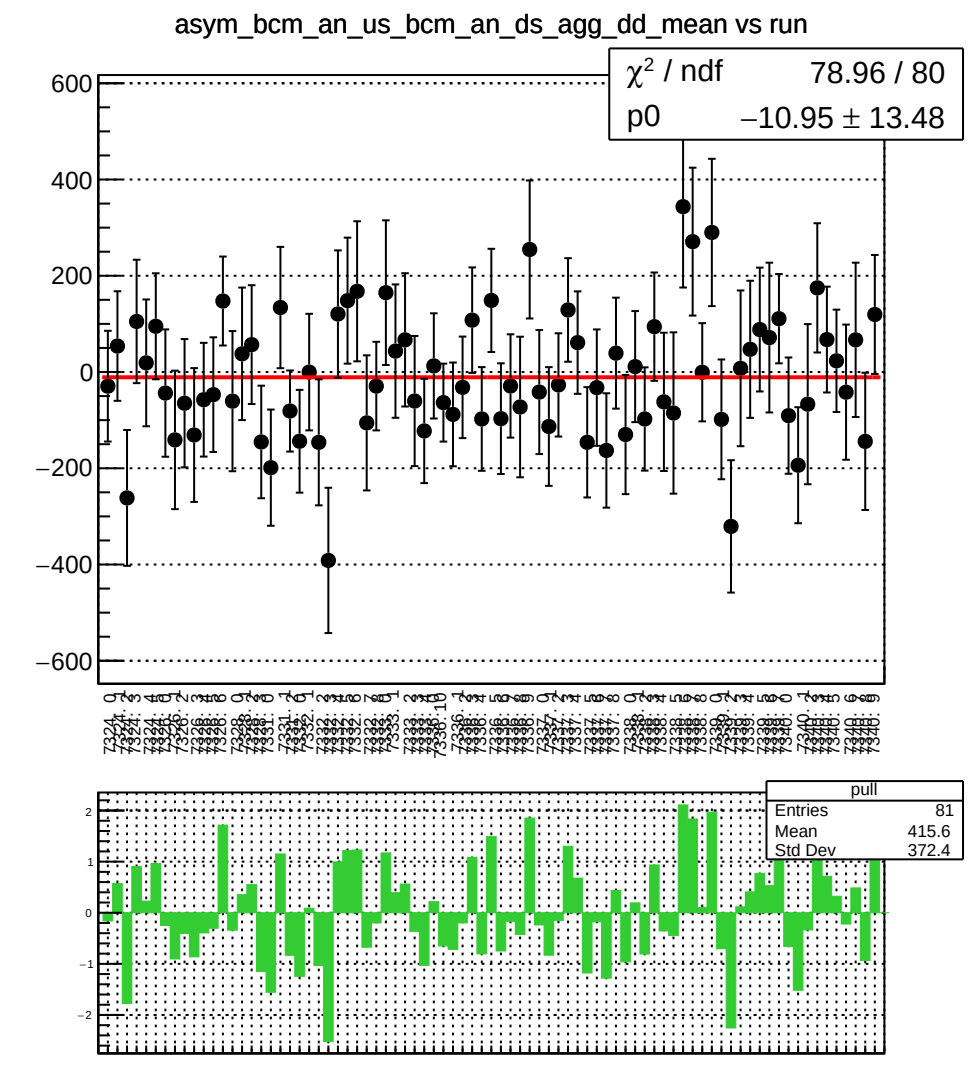

pull1D
Entries 81
Mean −0.001223
Std Dev 1.058

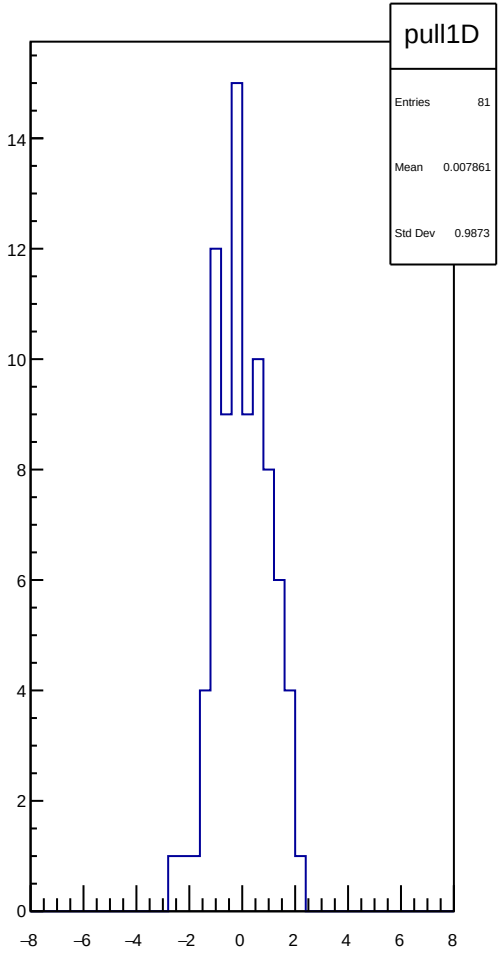

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.084e+04 / 80
p0 1398 ± 1.123
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

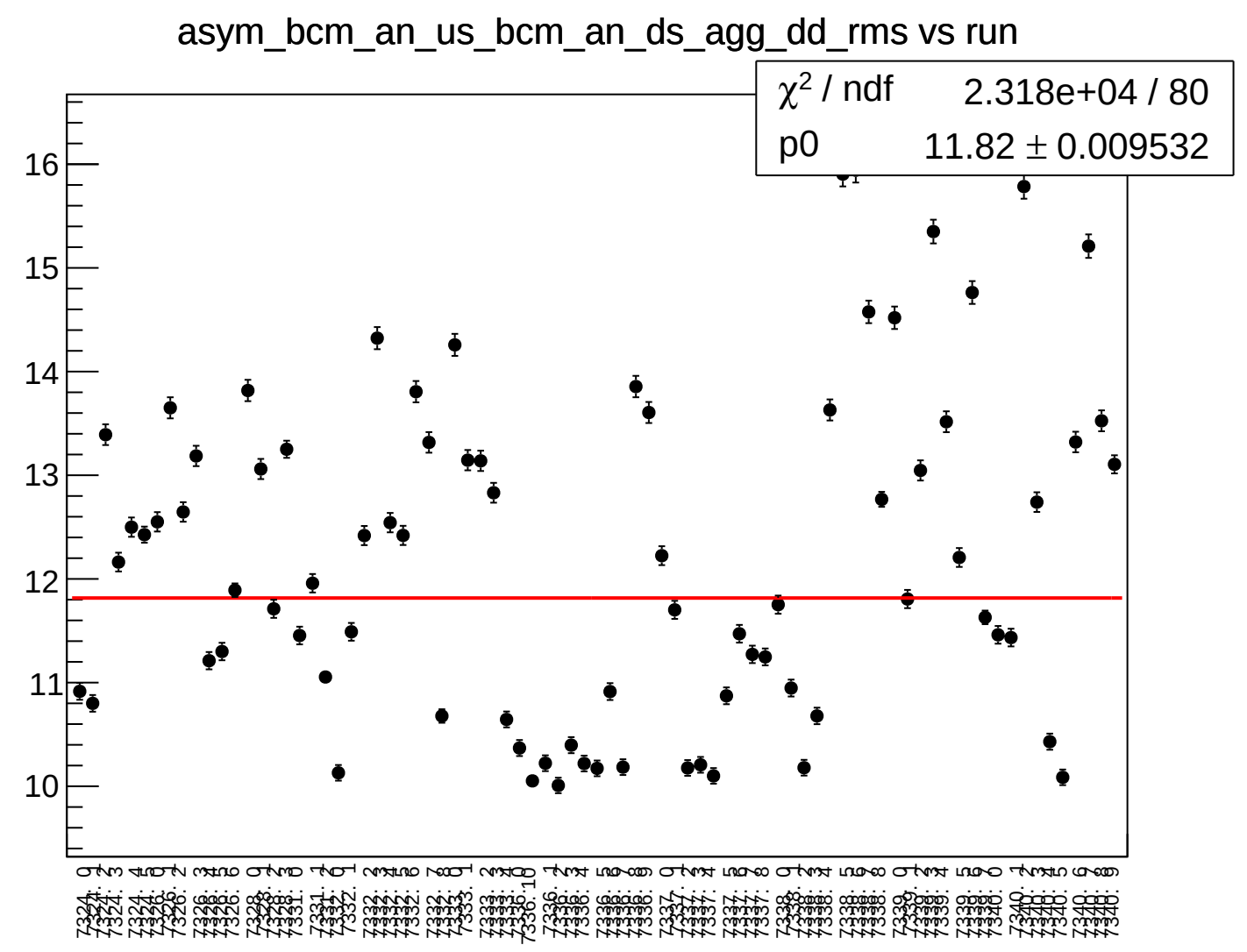

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.28 / 80
p0 50.36 ± 200.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 12.85
Std Dev 28.33
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

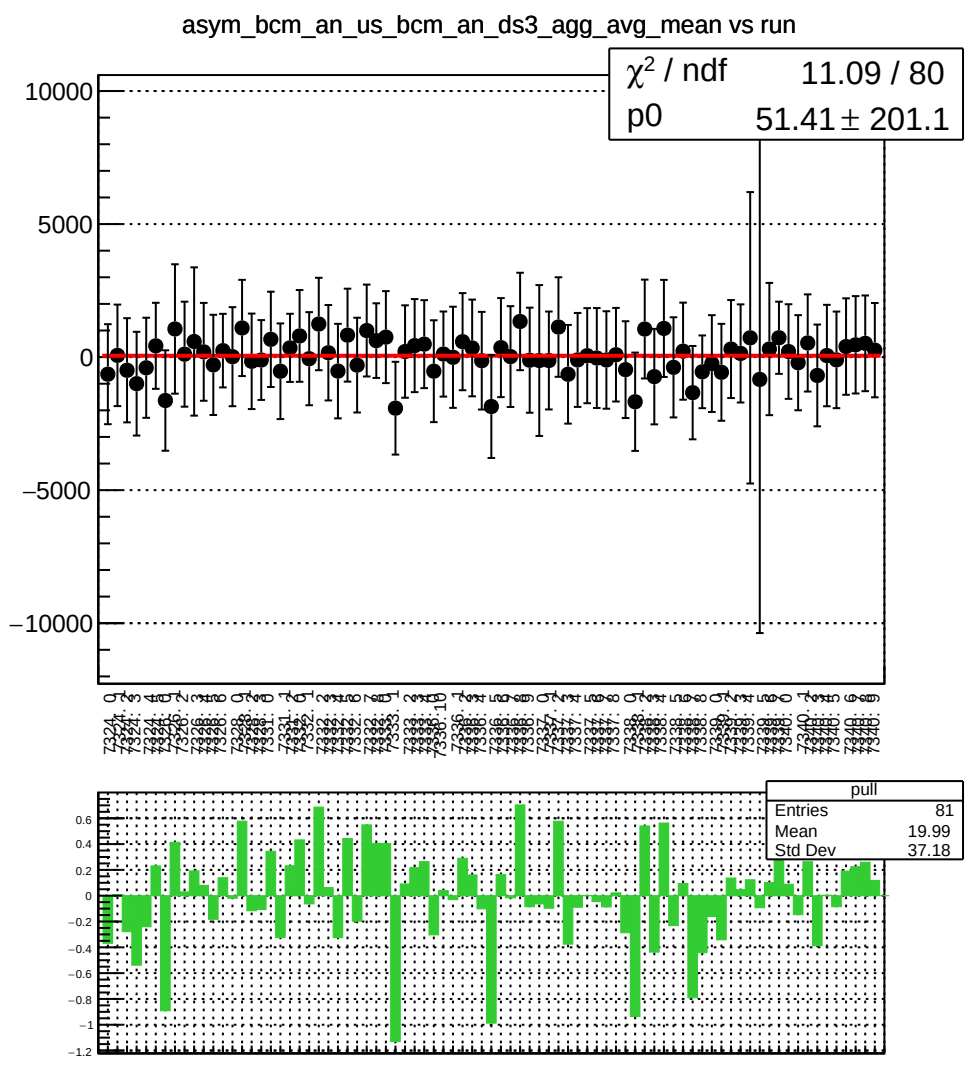

pull1D
Entries 81
Mean −0.005228
Std Dev 0.3732
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

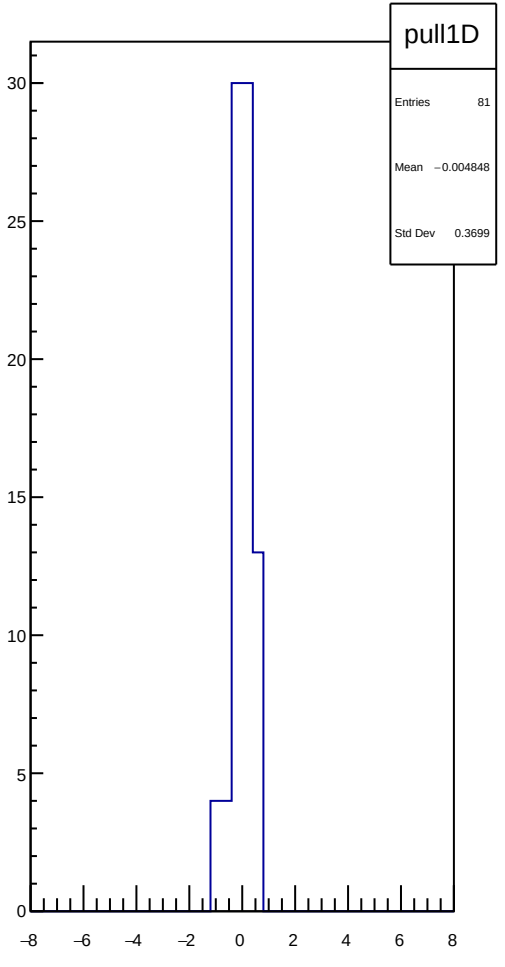

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.843e+04 / 80
p0 175.3 ± 0.1417
900
800
700
600
500
400
300
200
100

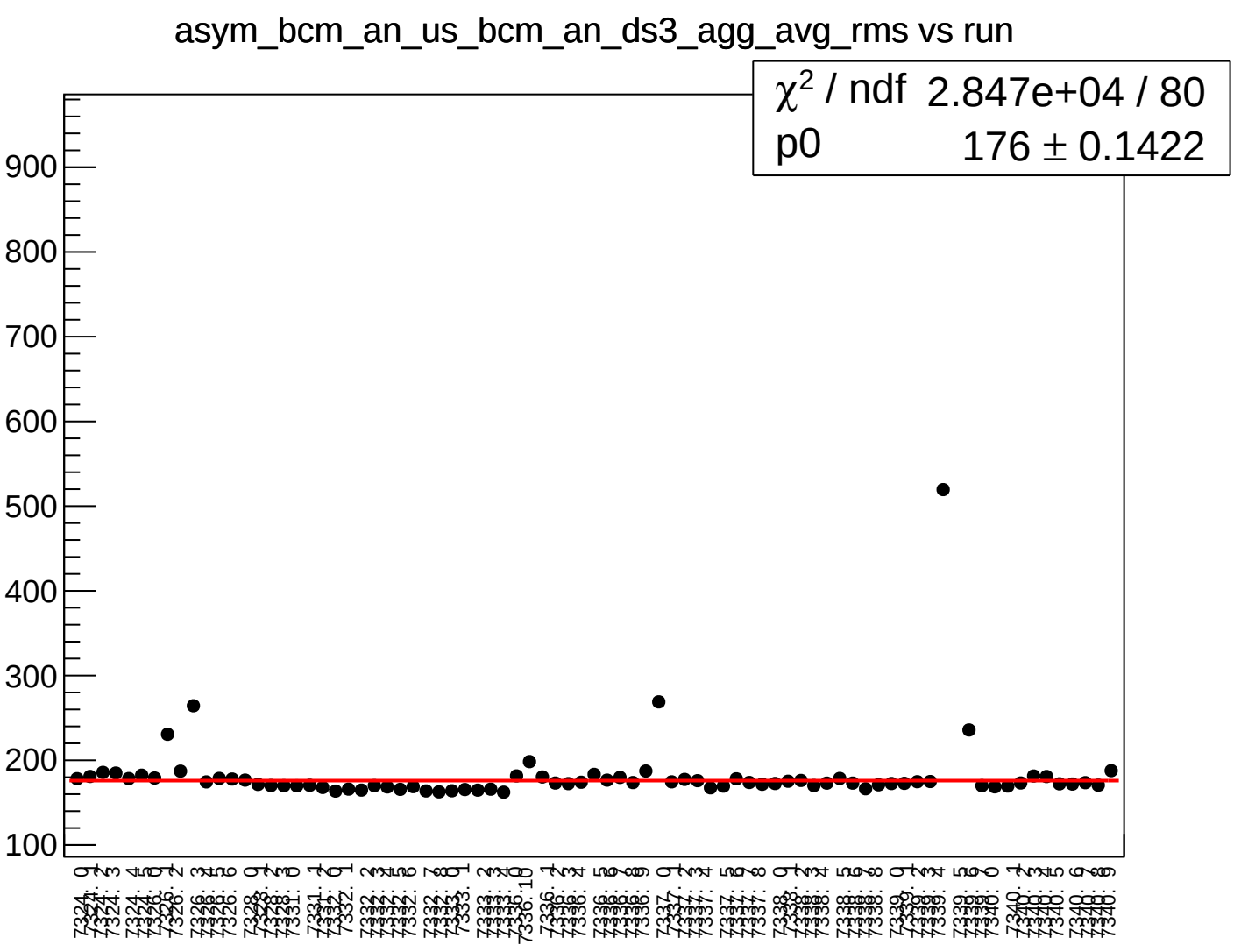

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.96 / 80
p0 −10.95 ± 13.48
pull
Entries 81
Mean 415.6
Std Dev 372.4

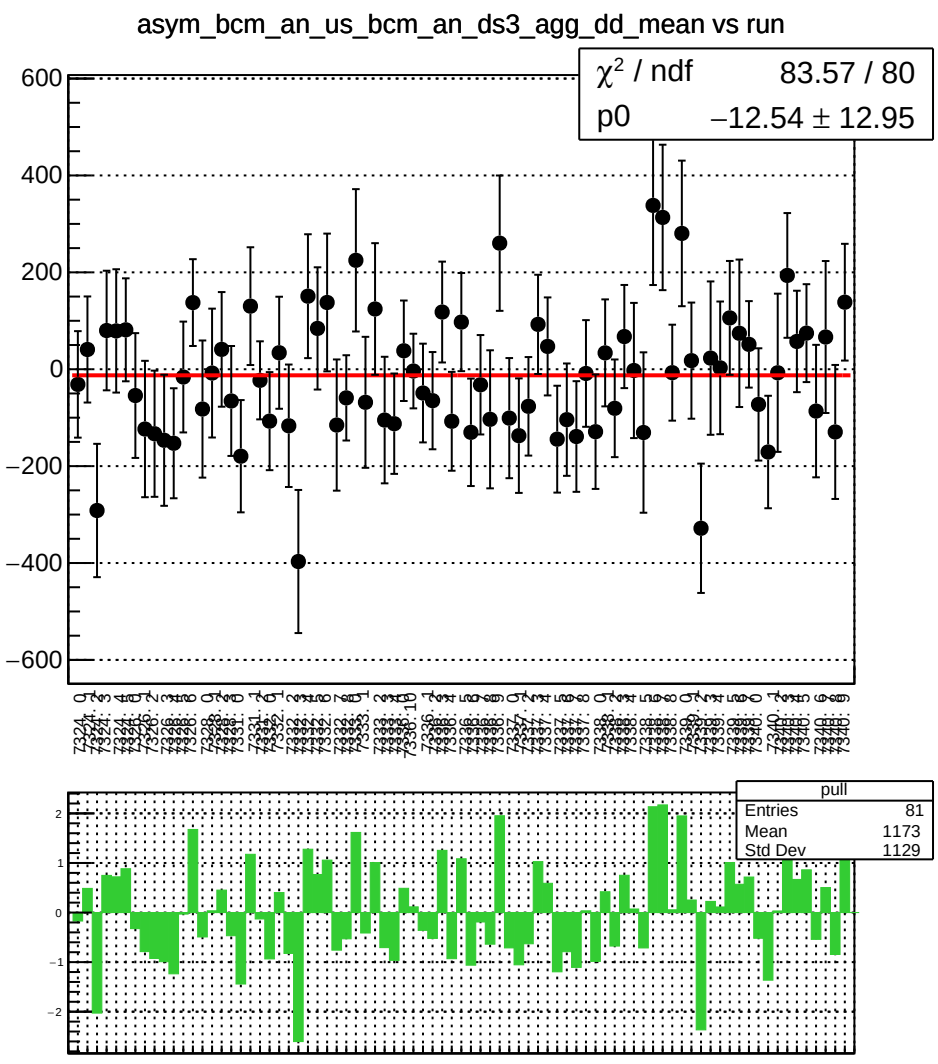

pull1D
Entries 81
Mean 0.007861
Std Dev 0.9873

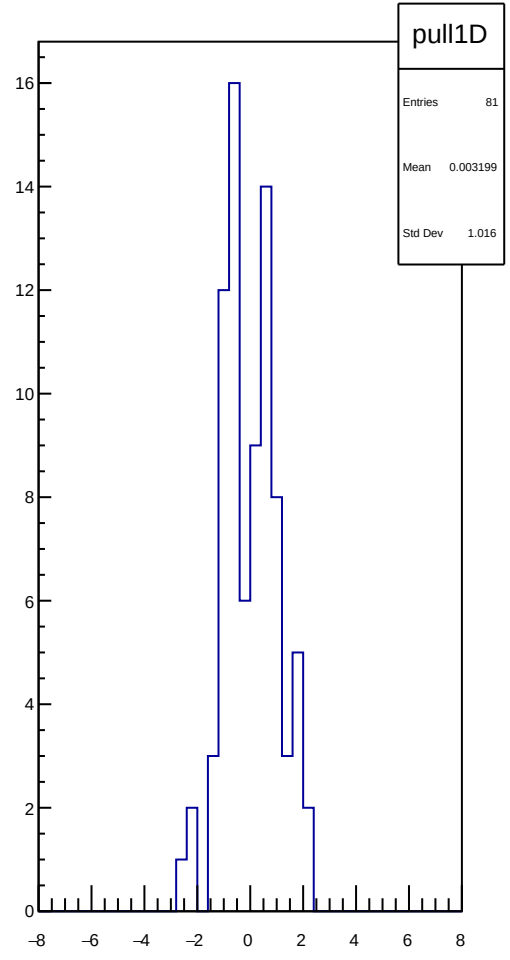

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.318e+04 / 80
p0 11.82 ± 0.009532
16
15
14
13
12
11
10

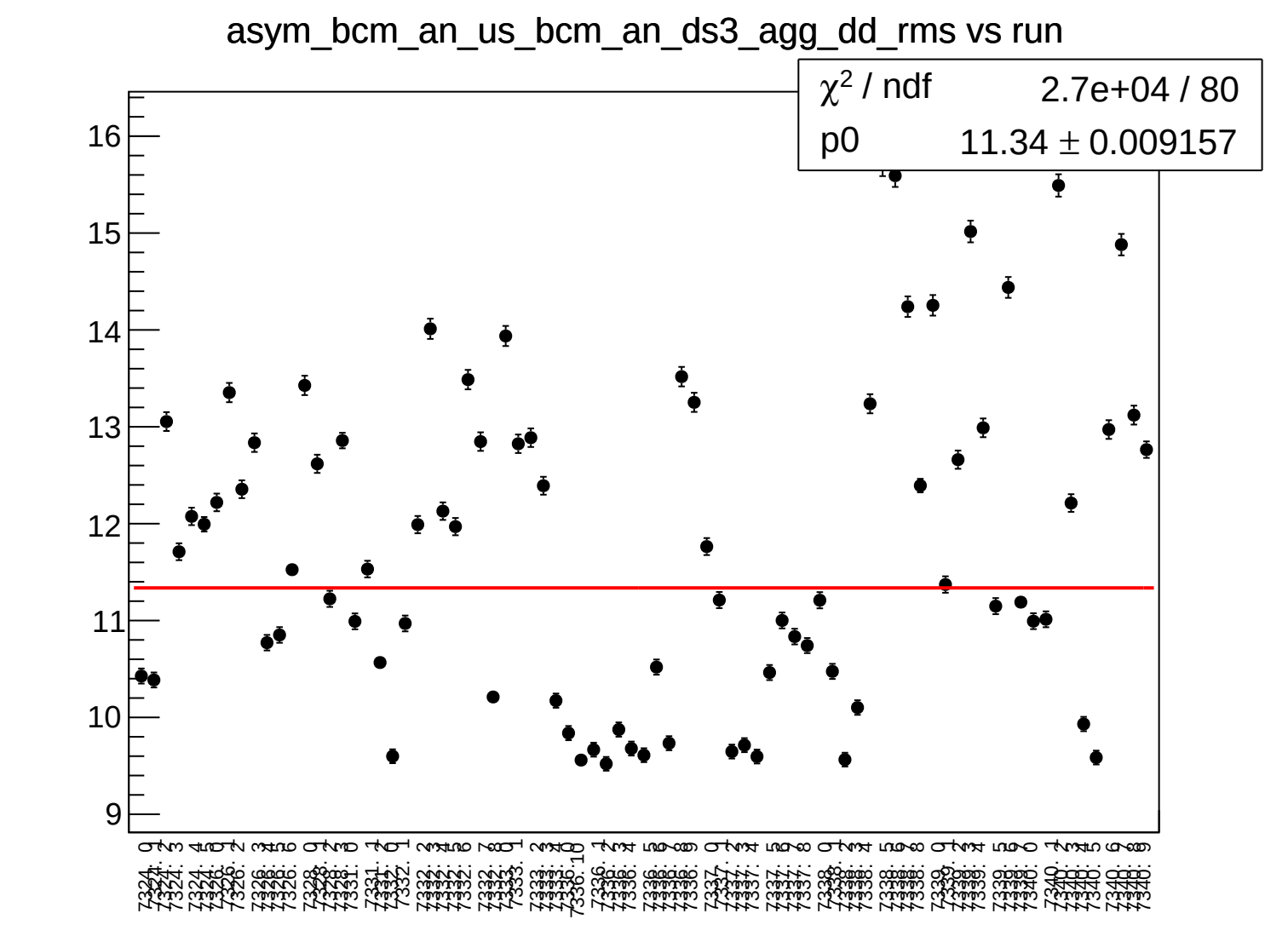

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 11.09 / 80
p0 51.41 ± 201.1
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 19.99
Std Dev 37.18
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

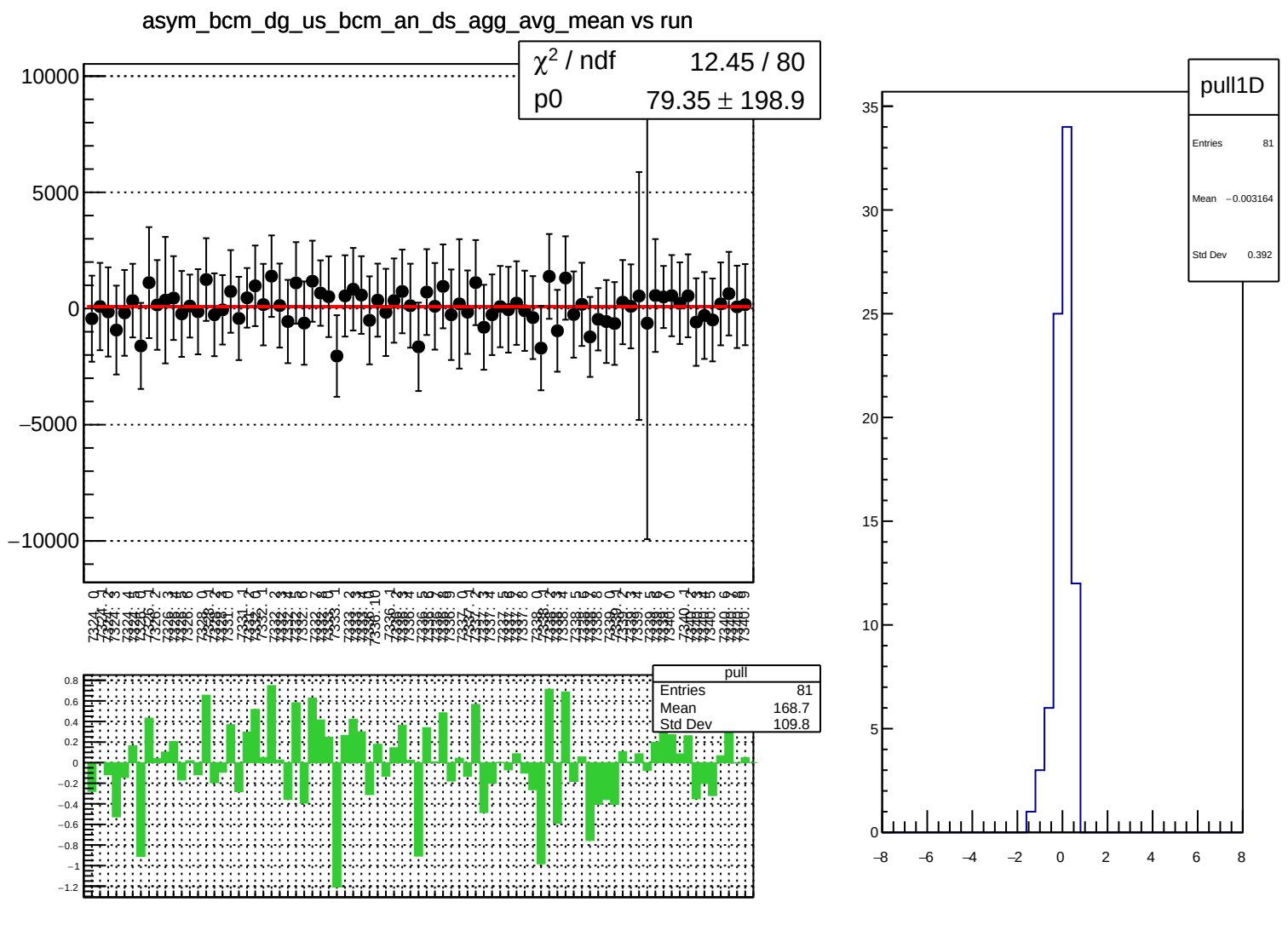

pull1D
Entries 81
Mean −0.004848
Std Dev 0.3699
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

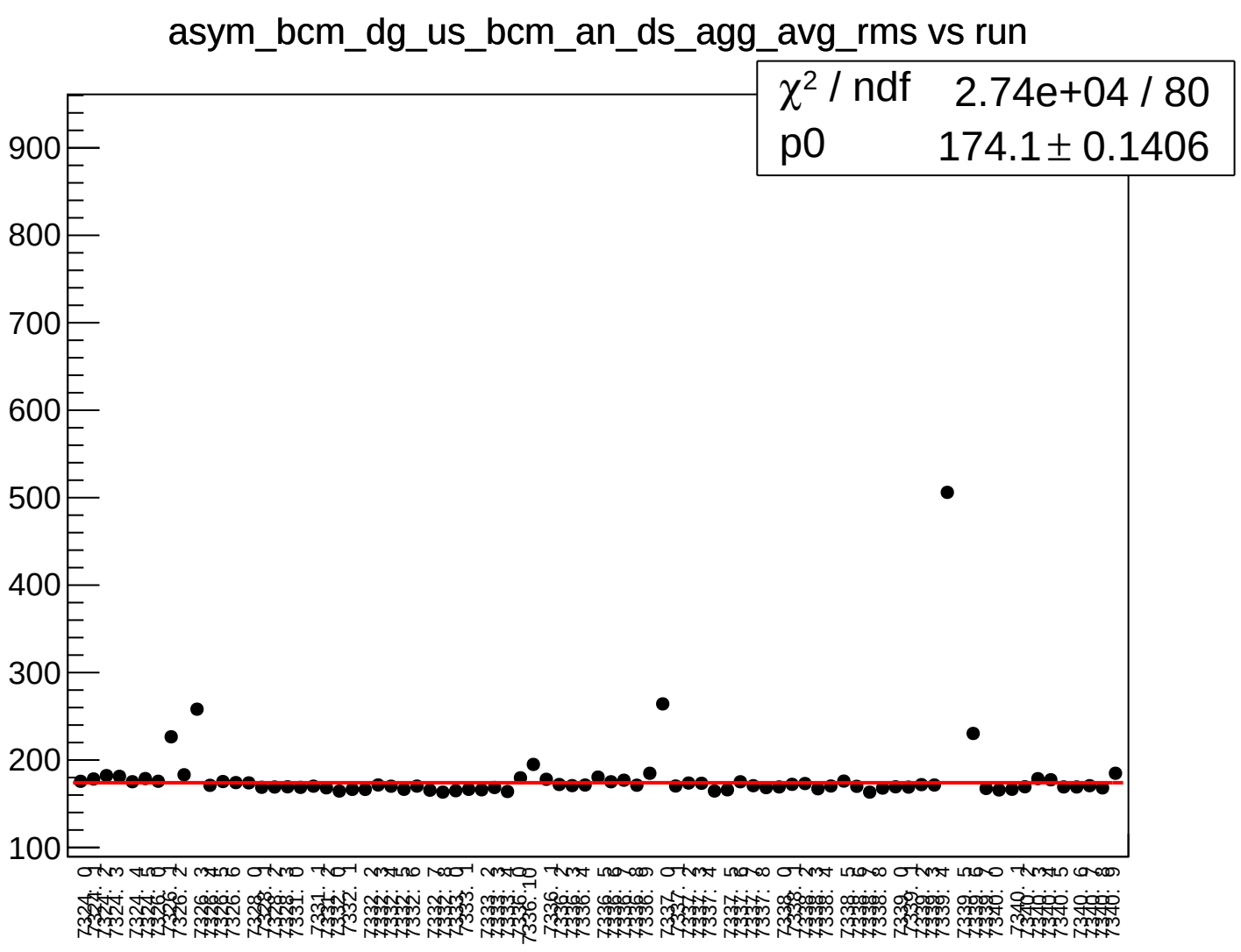

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.847e+04 / 80
p0 176 ± 0.1422
900
800
700
600
500
400
300
200
100

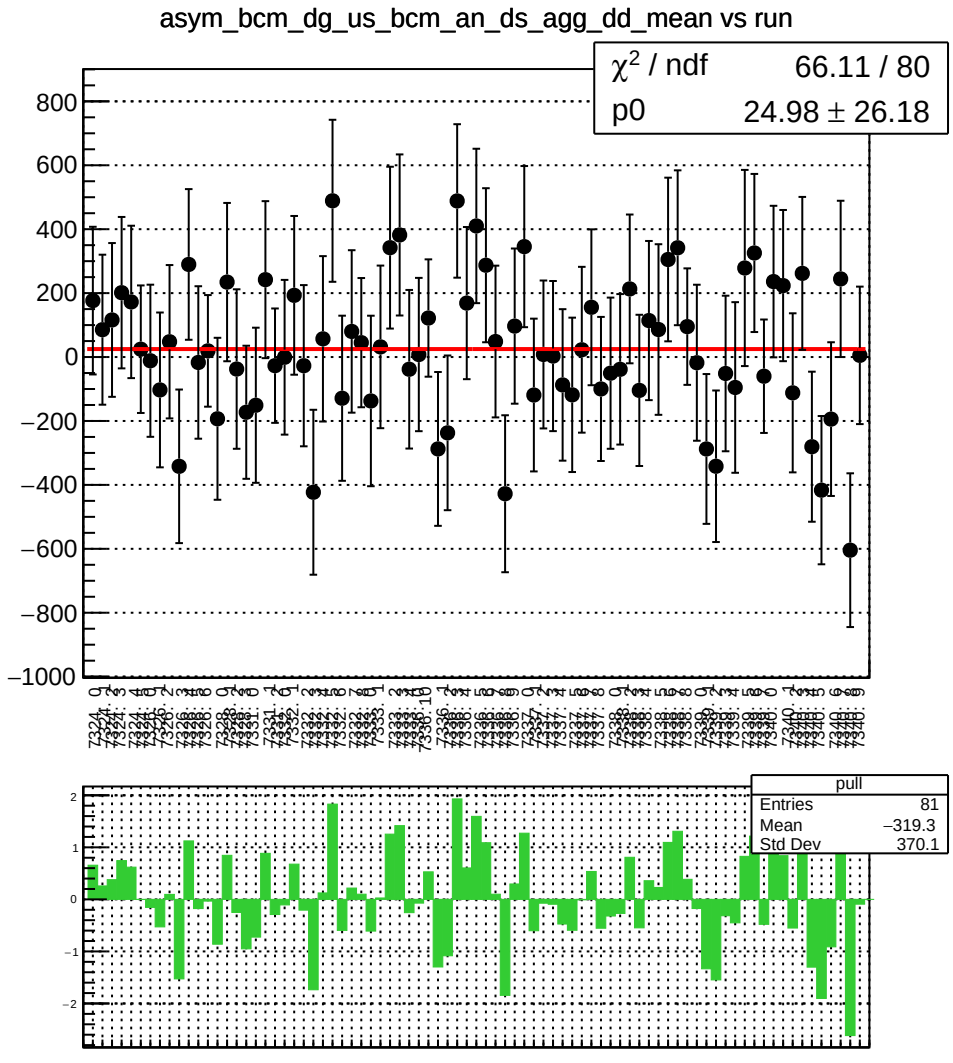

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 83.57 / 80
p0 −12.54 ± 12.95
pull
Entries 81
Mean 1173
Std Dev 1129

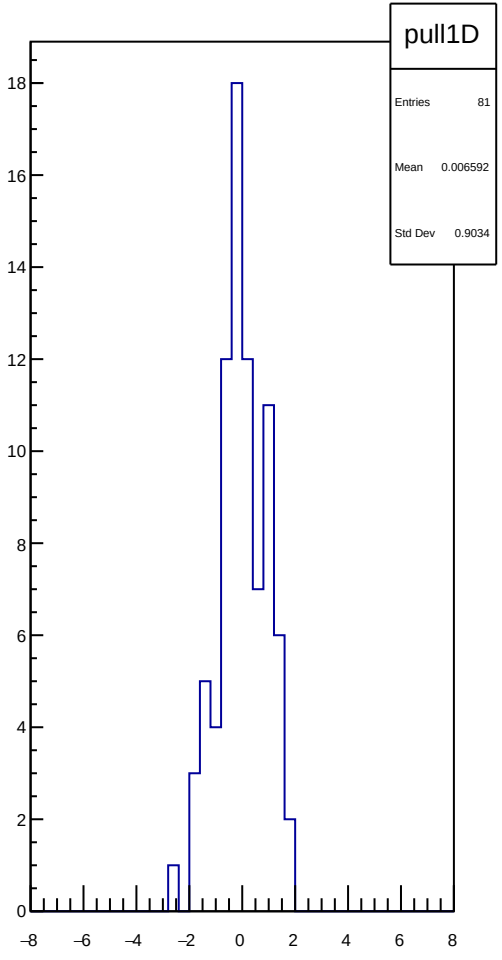

pull1D
Entries 81
Mean 0.003199
Std Dev 1.016

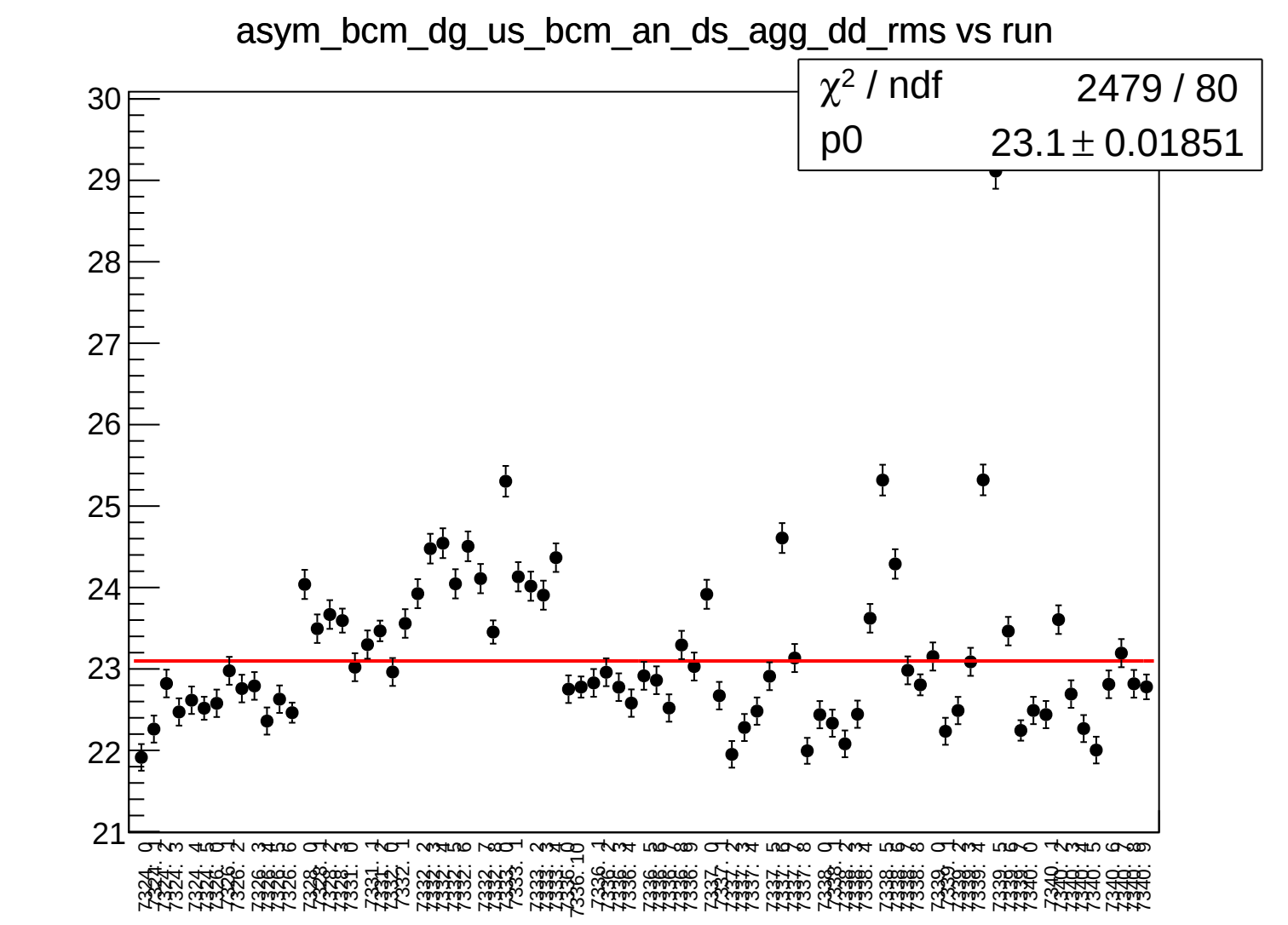

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.7e+04 / 80
p0 11.34 ± 0.009157
16
15
14
13
12
11
10
9

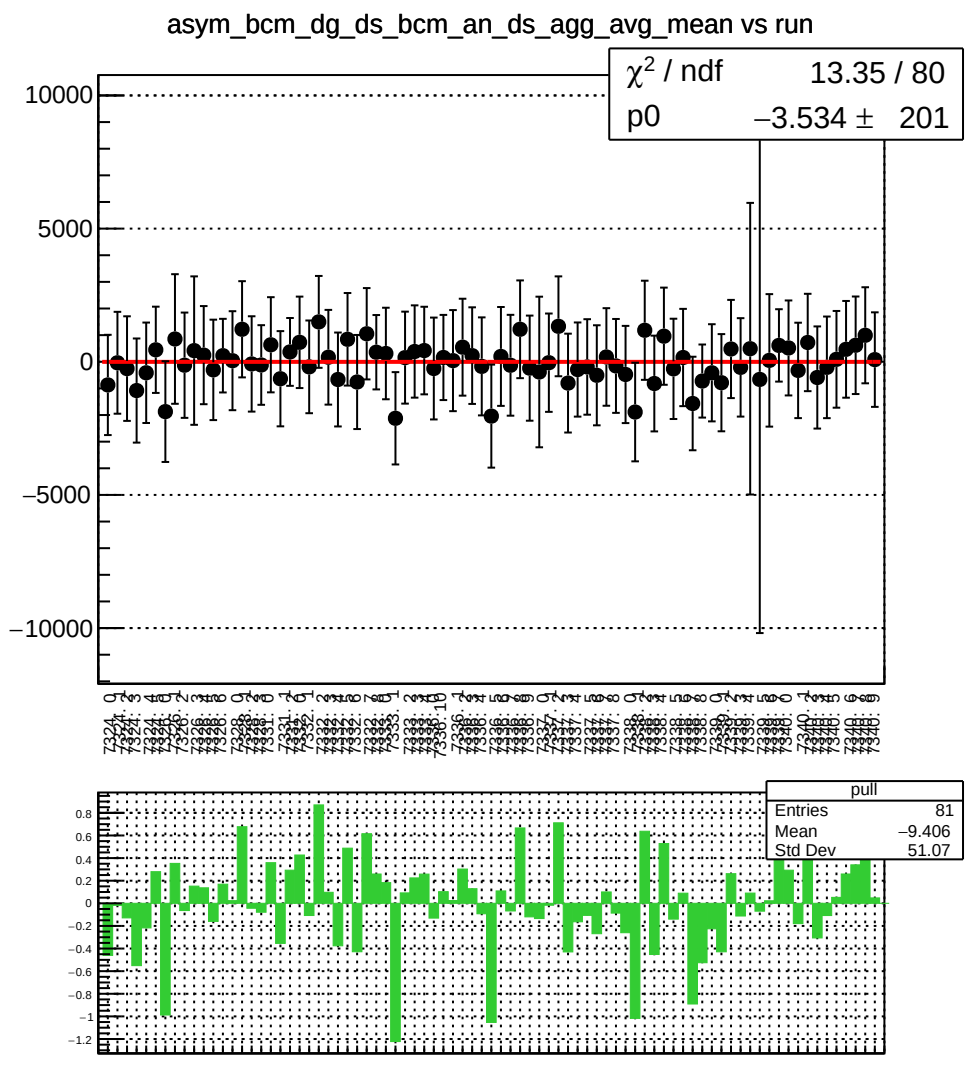

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.45 / 80
p0 79.35 ± 198.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 168.7
Std Dev 109.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 81
Mean −0.003164
Std Dev 0.392
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

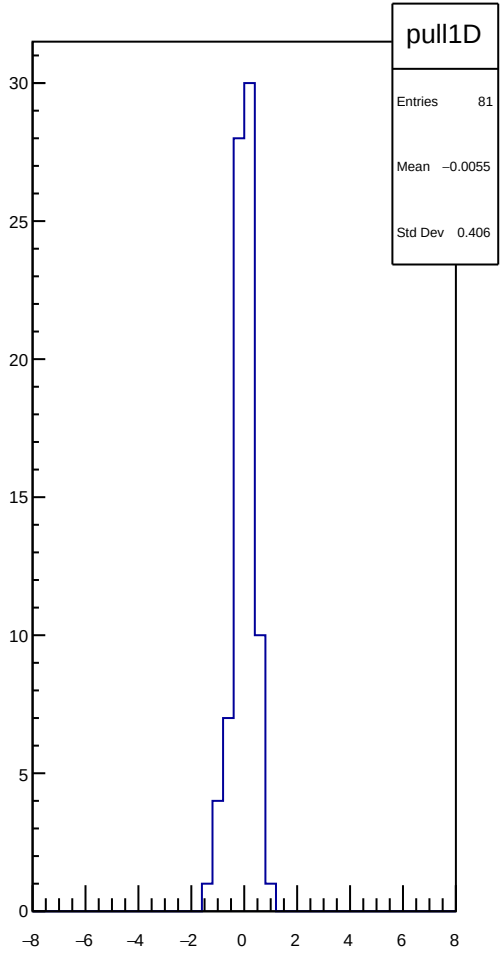

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.74e+04 / 80
p0 174.1 ± 0.1406
900
800
700
600
500
400
300
200
100

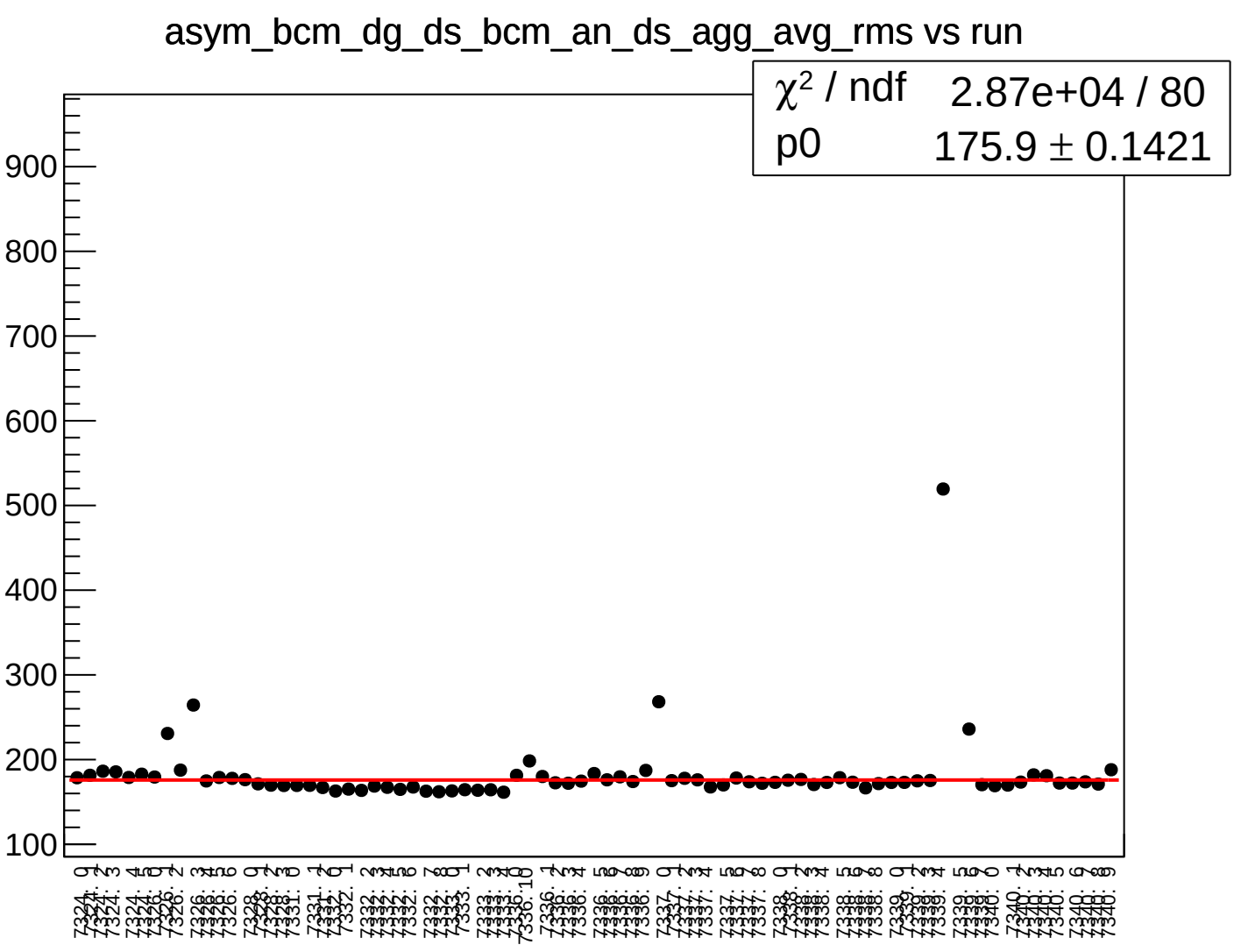

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 66.11 / 80
p0 24.98 ± 26.18
pull
Entries 81
Mean −319.3
Std Dev 370.1

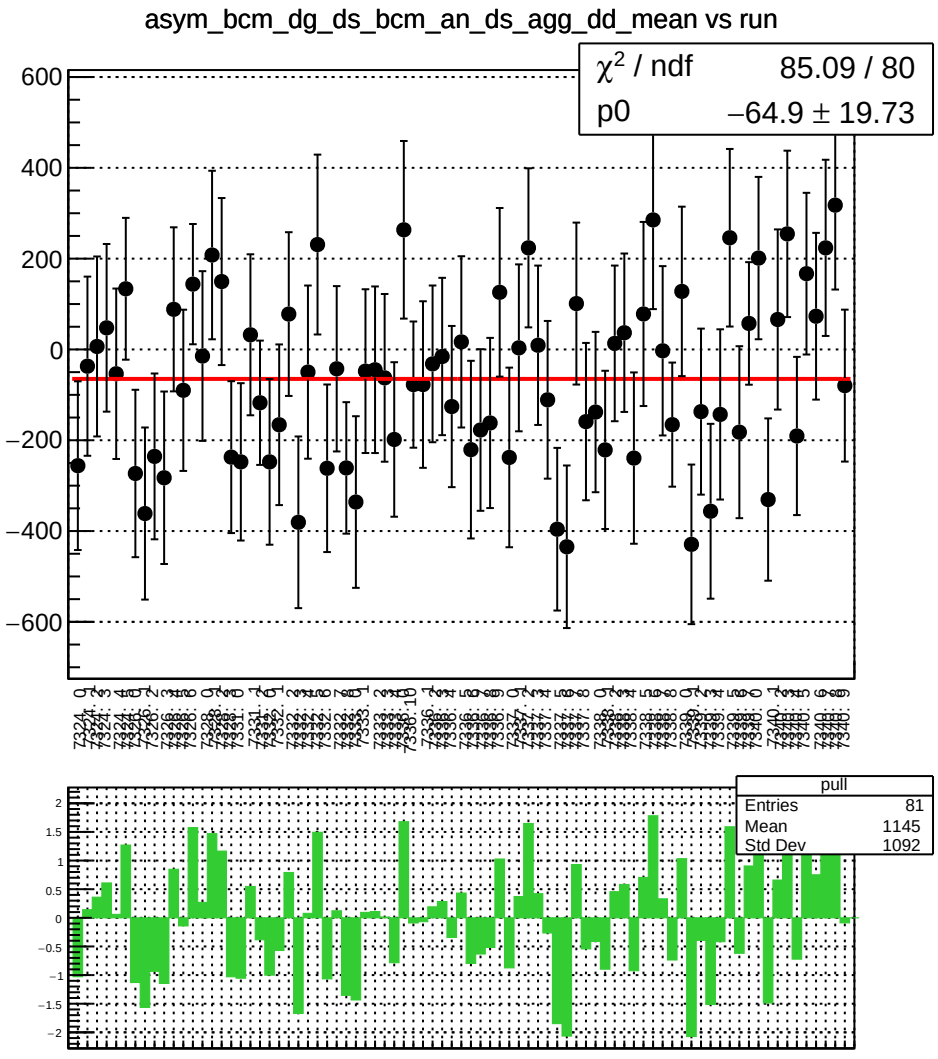

pull1D
Entries 81
Mean 0.006592
Std Dev 0.9034

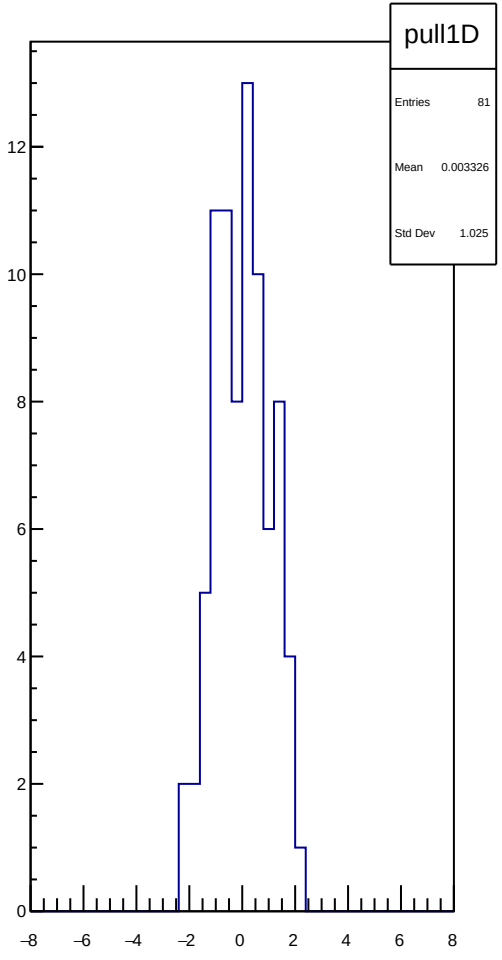

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2479 / 80
p0 23.1 ± 0.01851
30
29
28
27
26
25
24
23
22
21

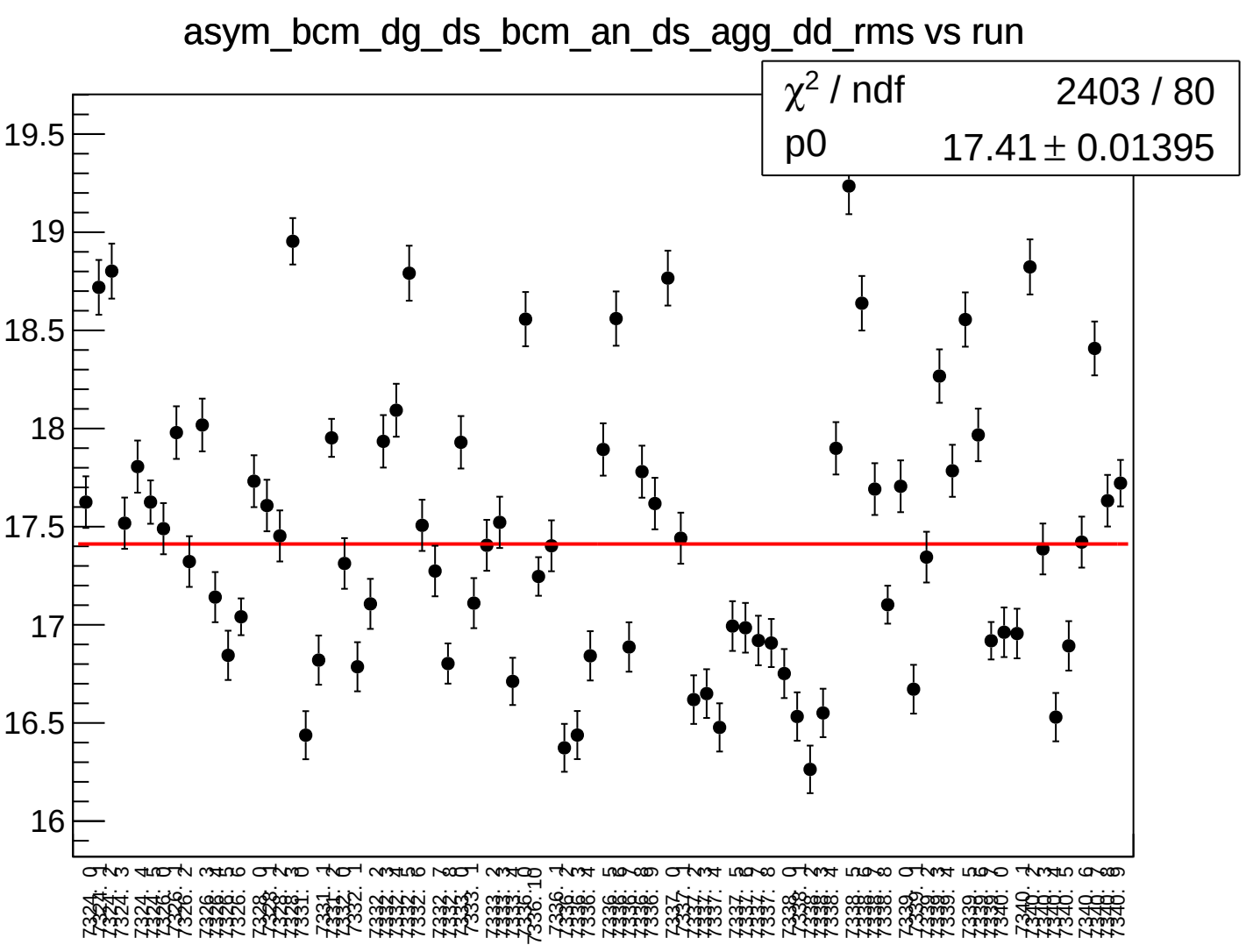

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.35 / 80
p0 −3.534 ± 201
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −9.406
Std Dev 51.07
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

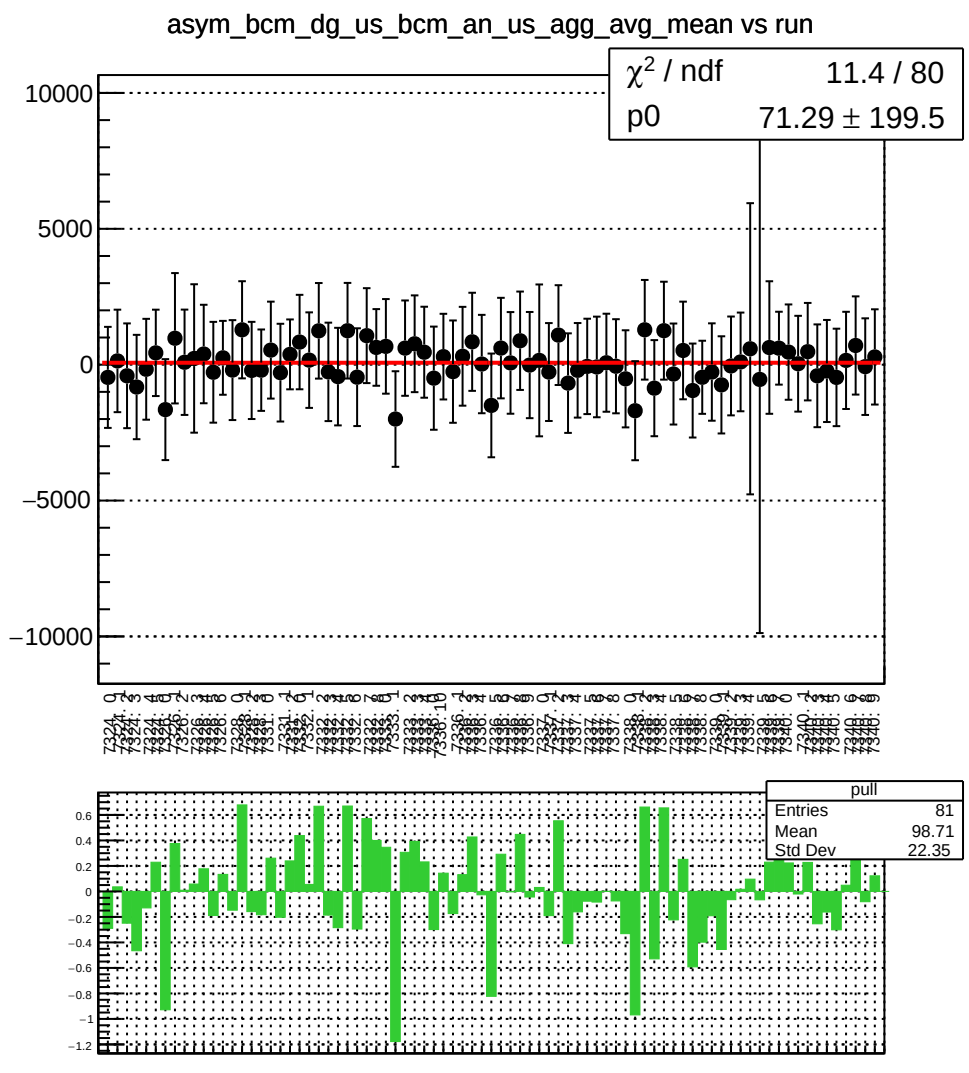

pull1D
Entries 81
Mean −0.0055
Std Dev 0.406
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

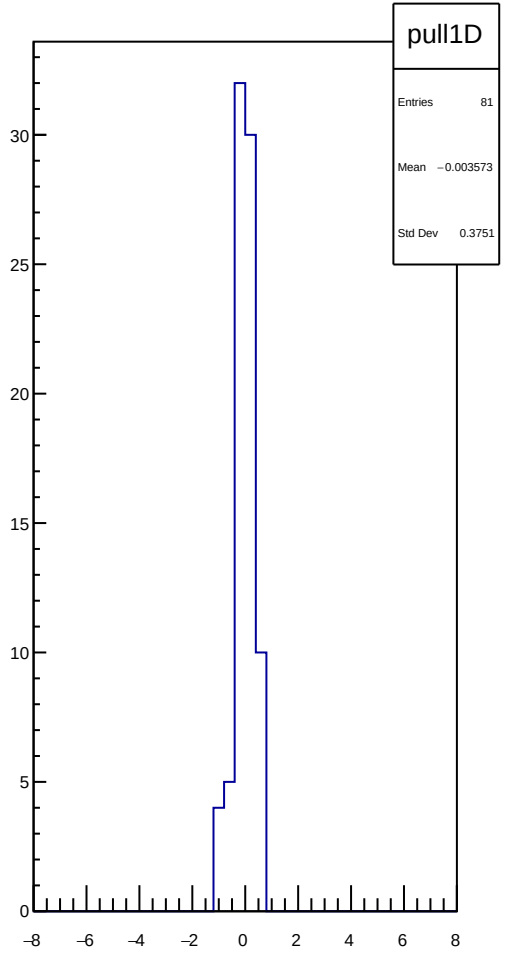

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.87e+04 / 80
p0 175.9 ± 0.1421
900
800
700
600
500
400
300
200
100

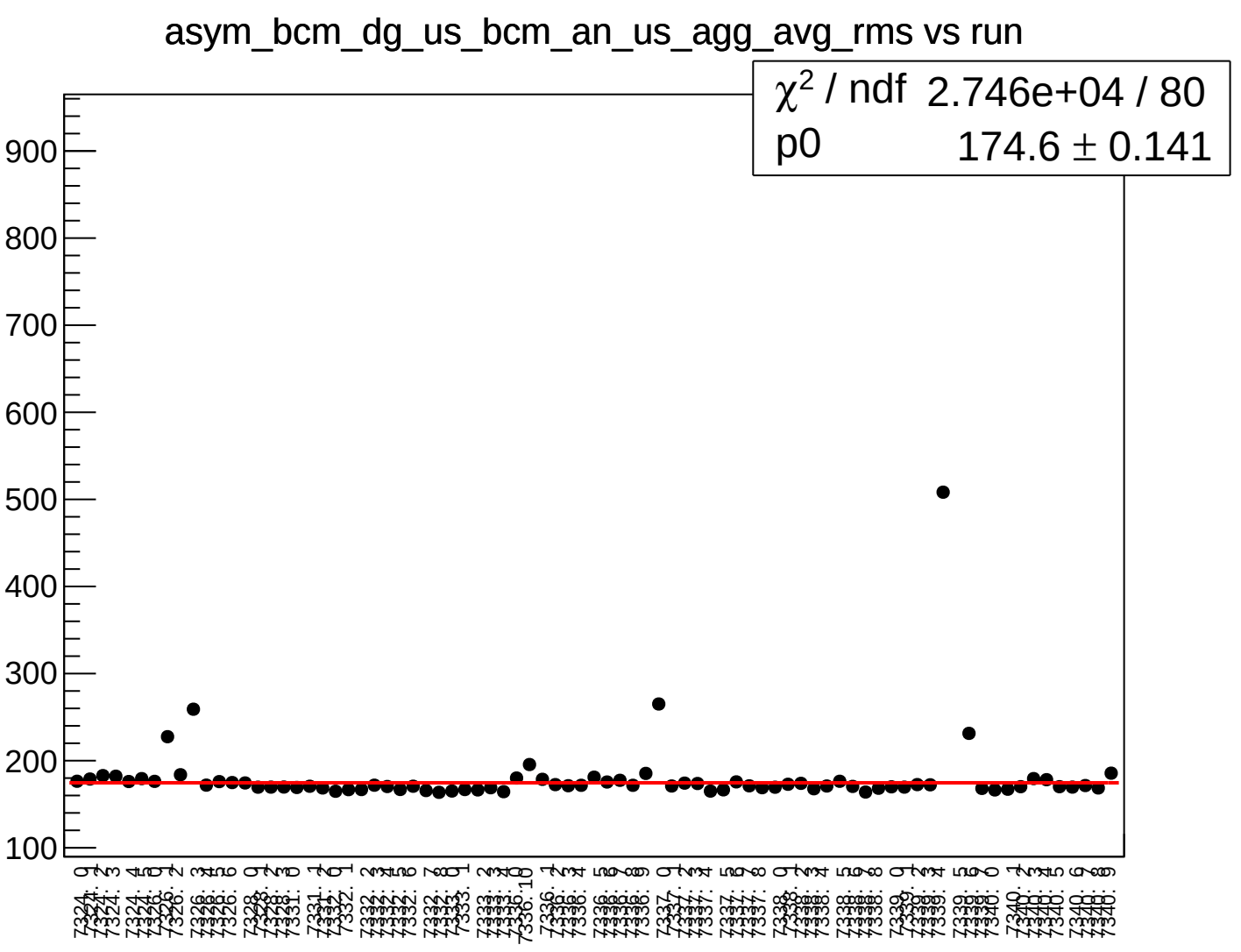

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 85.09 / 80
p0 −64.9 ± 19.73
pull
Entries 81
Mean 1145
Std Dev 1092

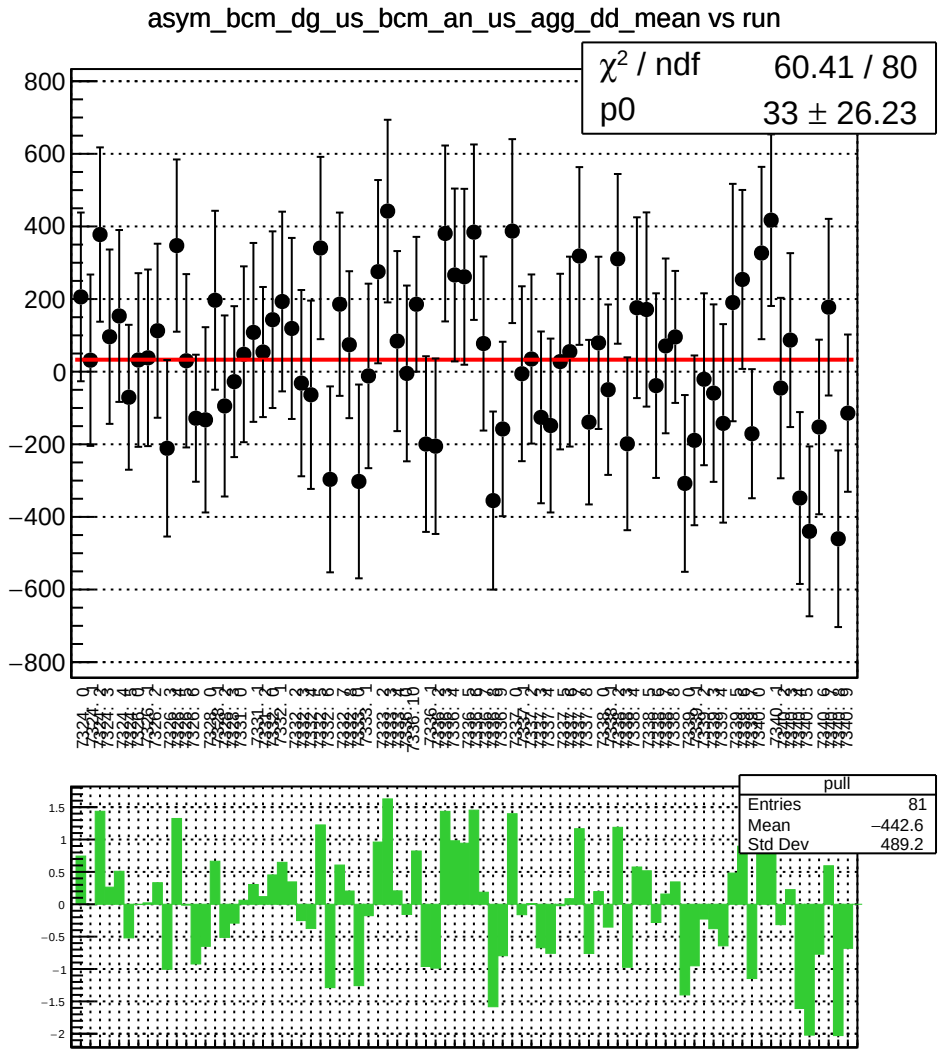

pull1D
Entries 81
Mean 0.003326
Std Dev 1.025

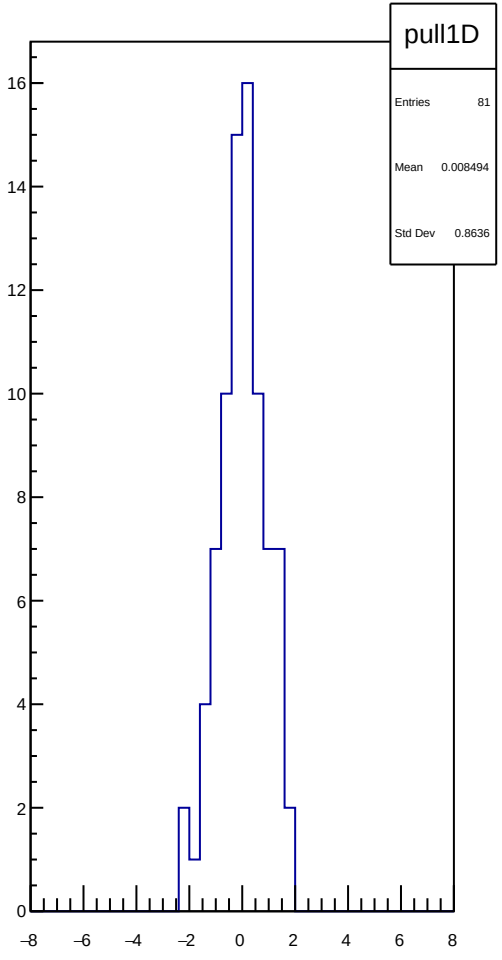

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2403 / 80
p0 17.41 ± 0.01395
19.5
19
18.5
18
17.5
17
16.5
16

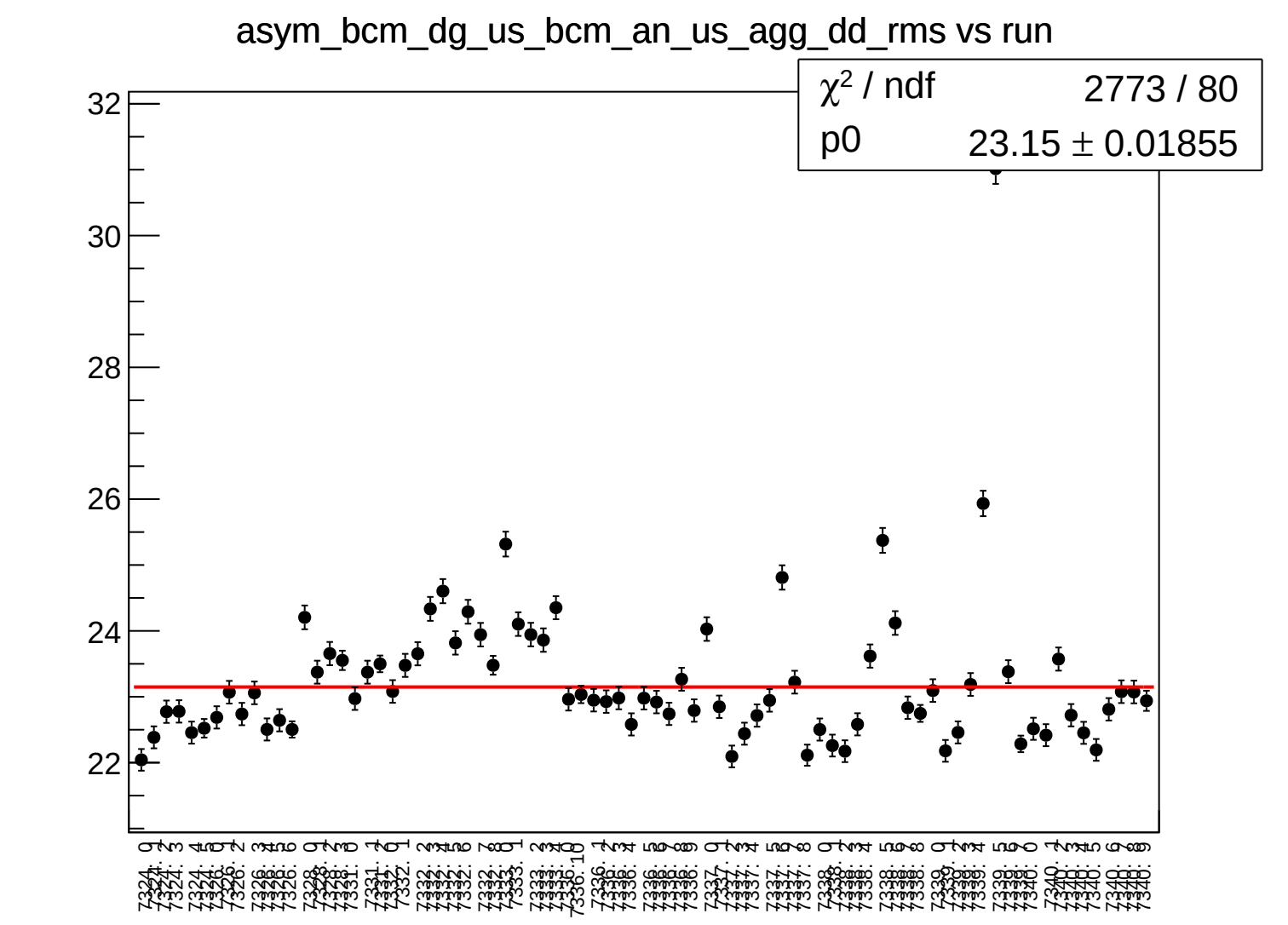

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.4 / 80
p0 71.29 ± 199.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 98.71
Std Dev 22.35
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

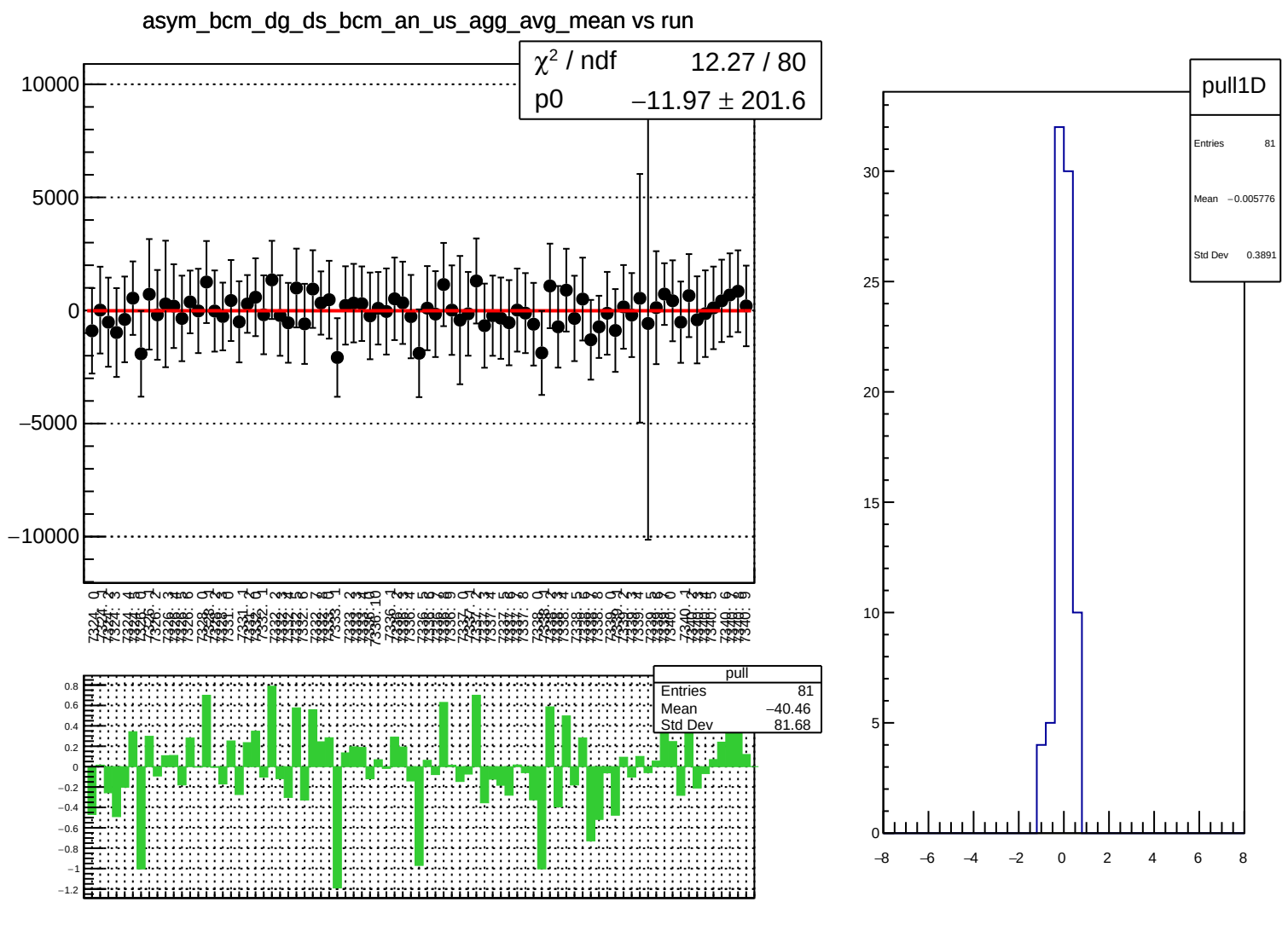

pull1D
Entries 81
Mean −0.003573
Std Dev 0.3751
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

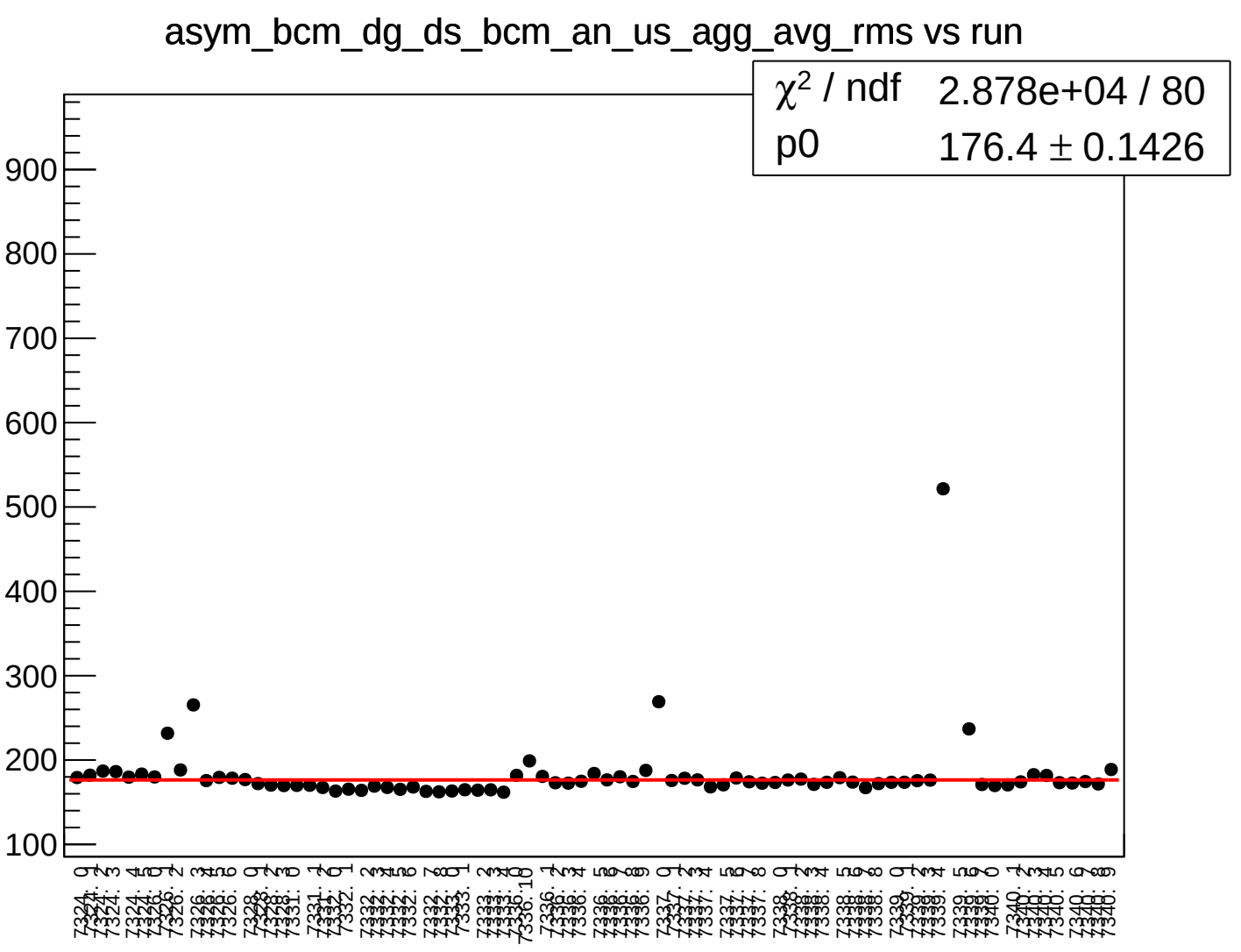

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.746e+04 / 80
p0 174.6 ± 0.141
900
800
700
600
500
400
300
200
100

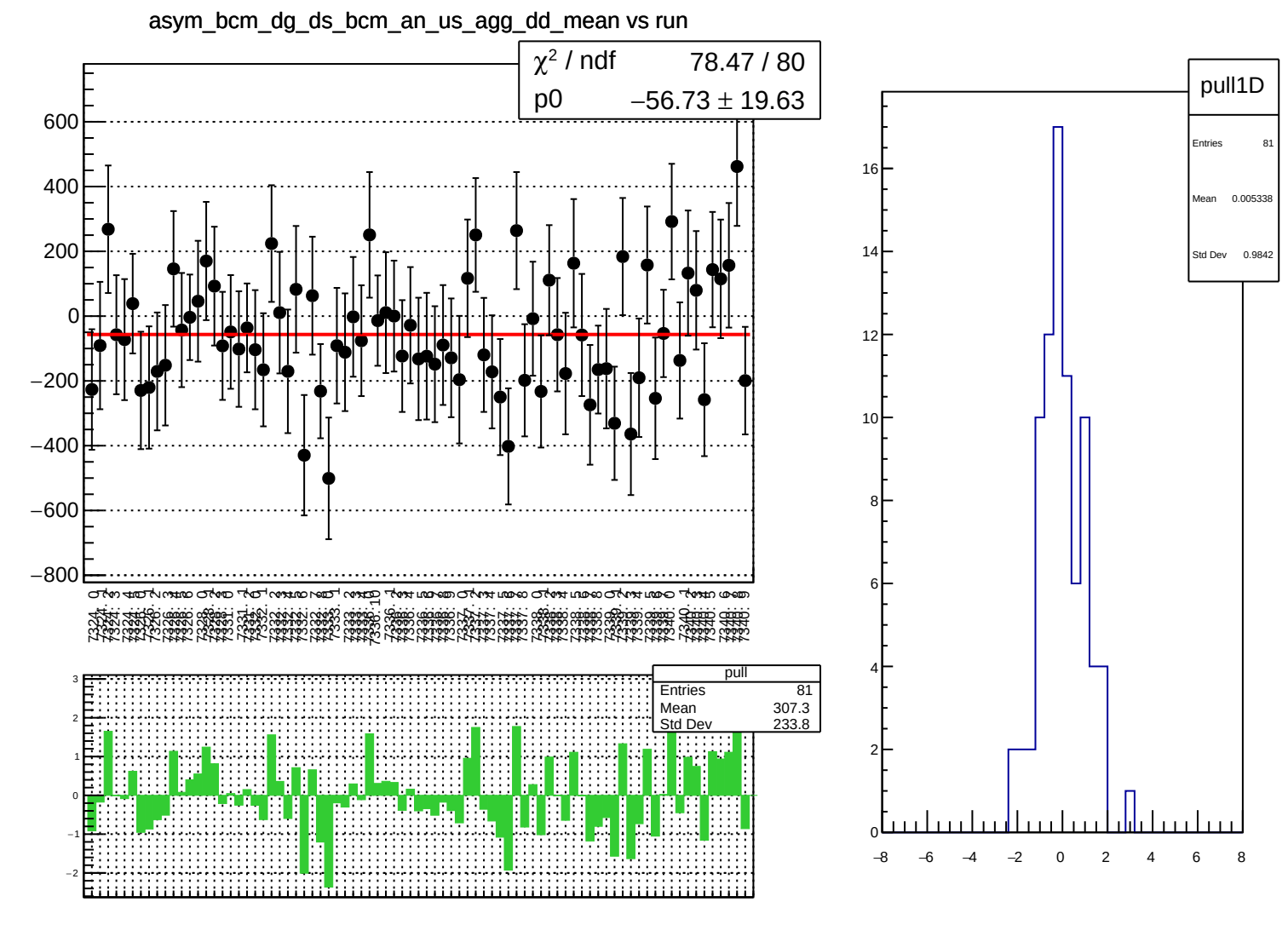

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 60.41 / 80
p0 33 ± 26.23
pull
Entries 81
Mean −442.6
Std Dev 489.2

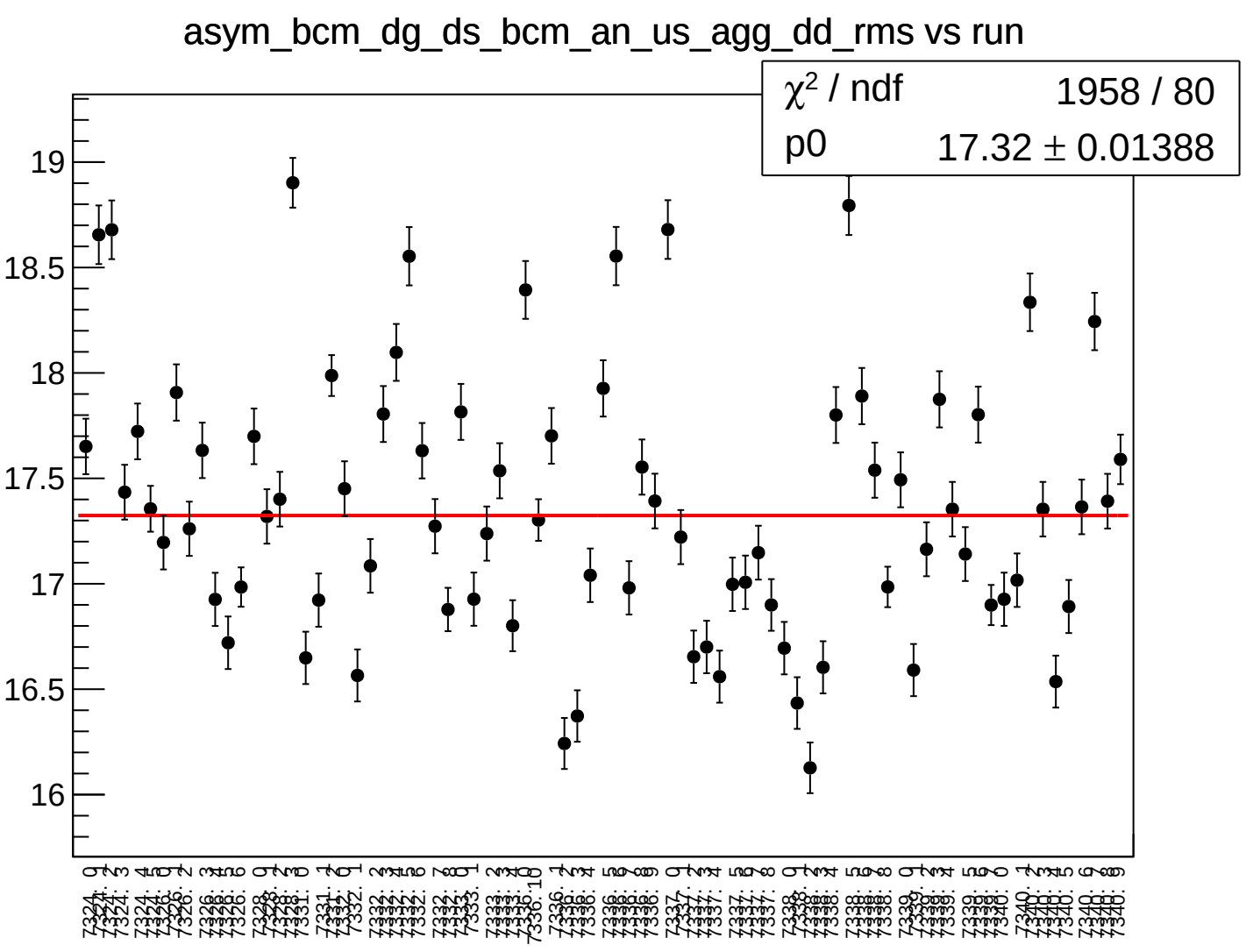

pull1D
Entries 81
Mean 0.008494
Std Dev 0.8636

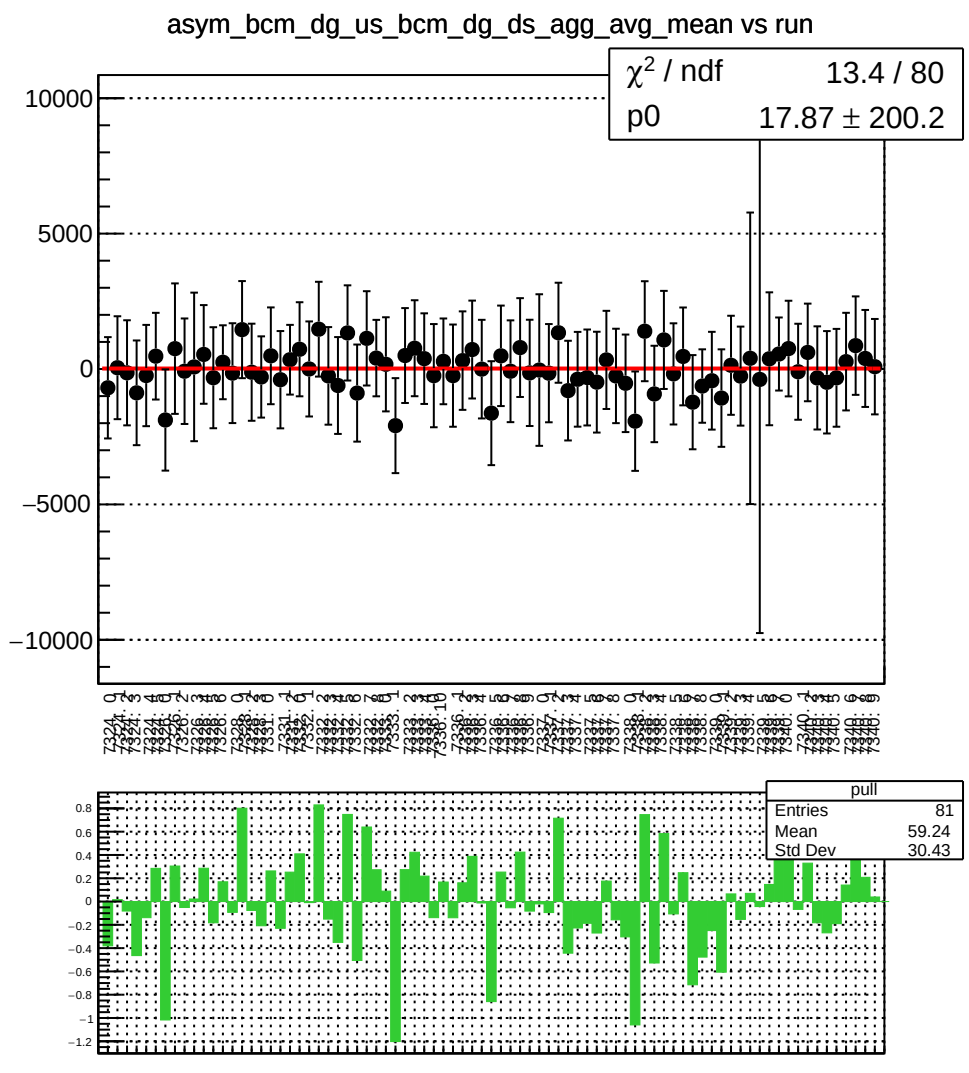

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2773 / 80
p0 23.15 ± 0.01855
32
30
28
26
24
22

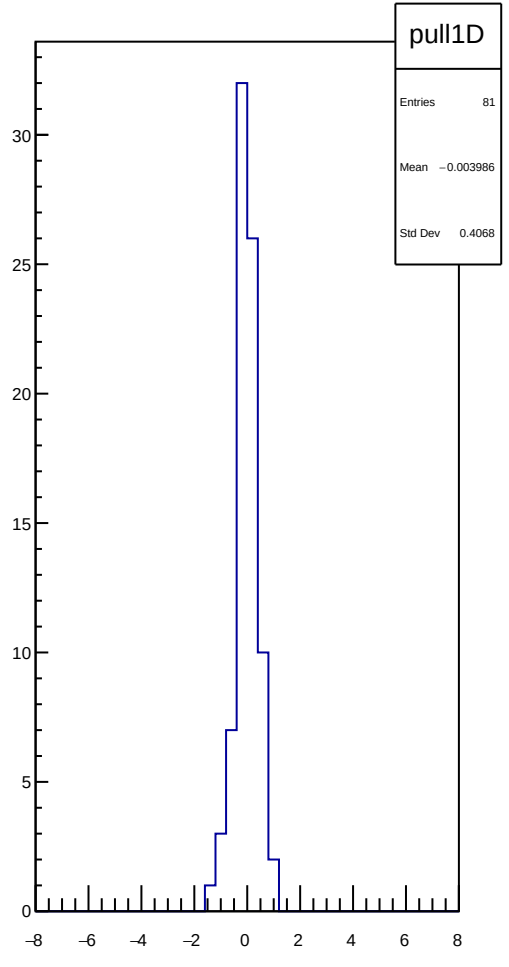

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.27 / 80
p0 −11.97 ± 201.6
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −40.46
Std Dev 81.68
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 81
Mean −0.005776
Std Dev 0.3891
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

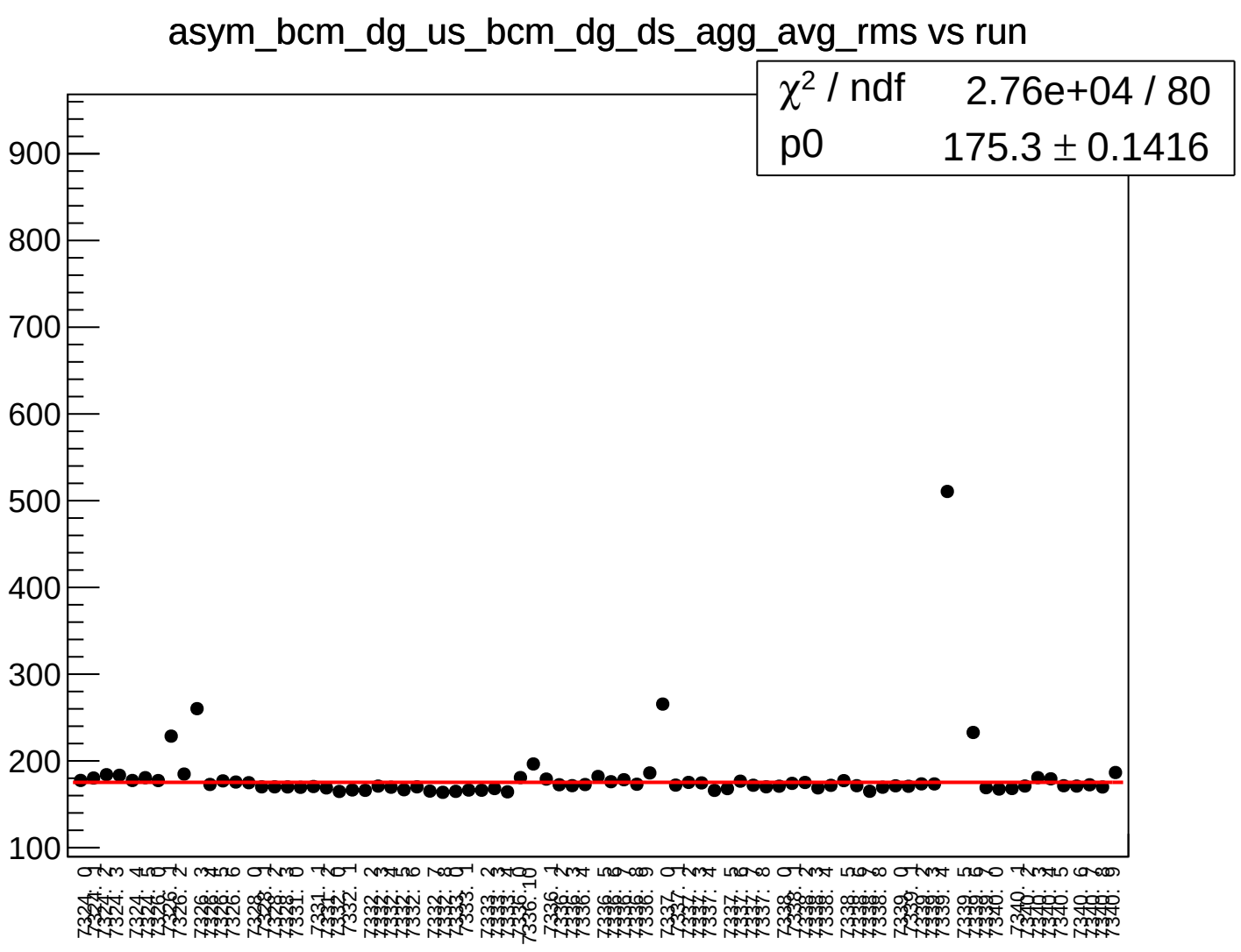

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 2.878e+04 / 80
p0 176.4 ± 0.1426
900
800
700
600
500
400
300
200
100

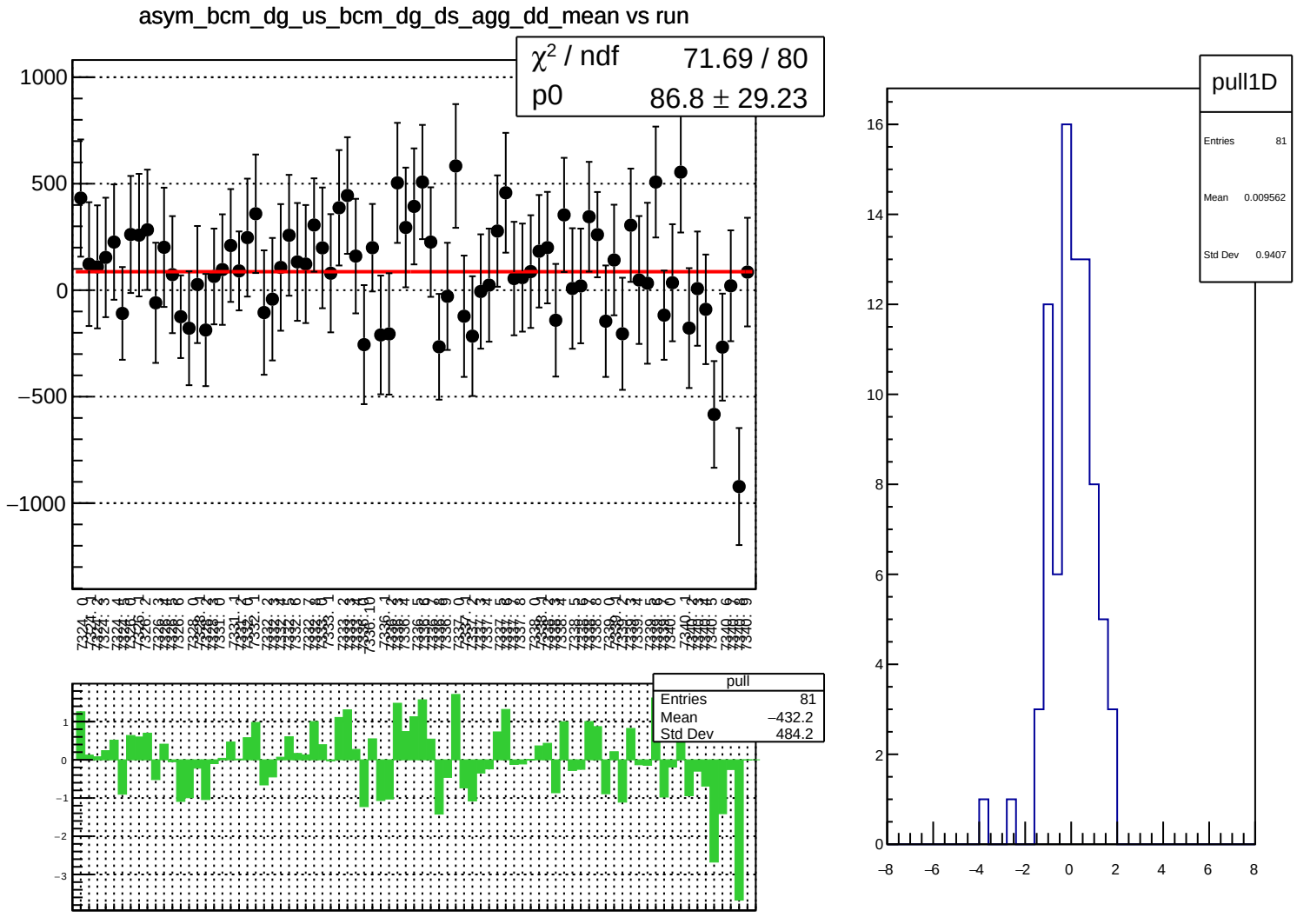

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 78.47 / 80
p0 −56.73 ± 19.63
pull
Entries 81
Mean 307.3
Std Dev 233.8
pull1D
Entries 81
Mean 0.005338
Std Dev 0.9842

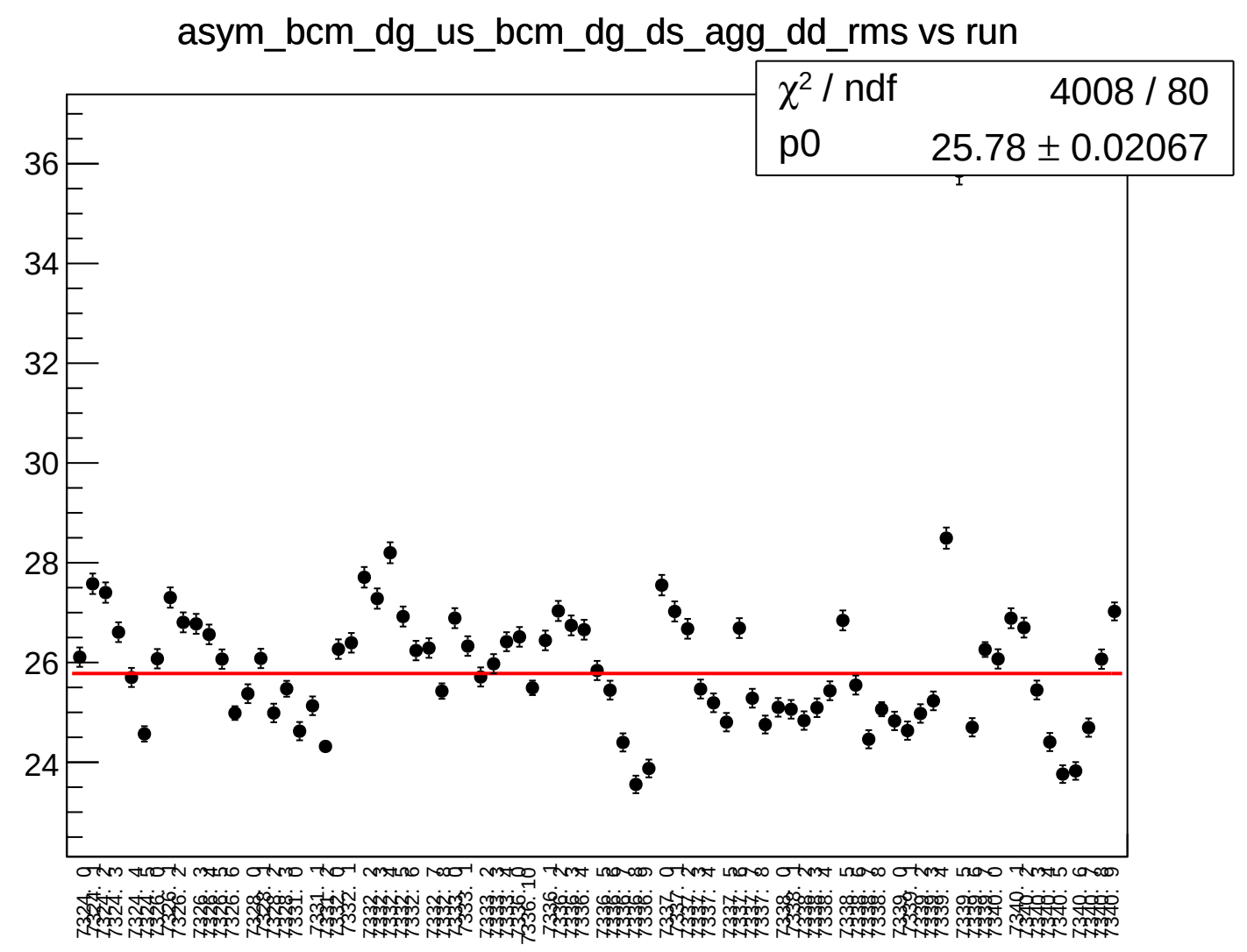

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1958 / 80
p0 17.32 ± 0.01388
19
18.5
18
17.5
17
16.5
16

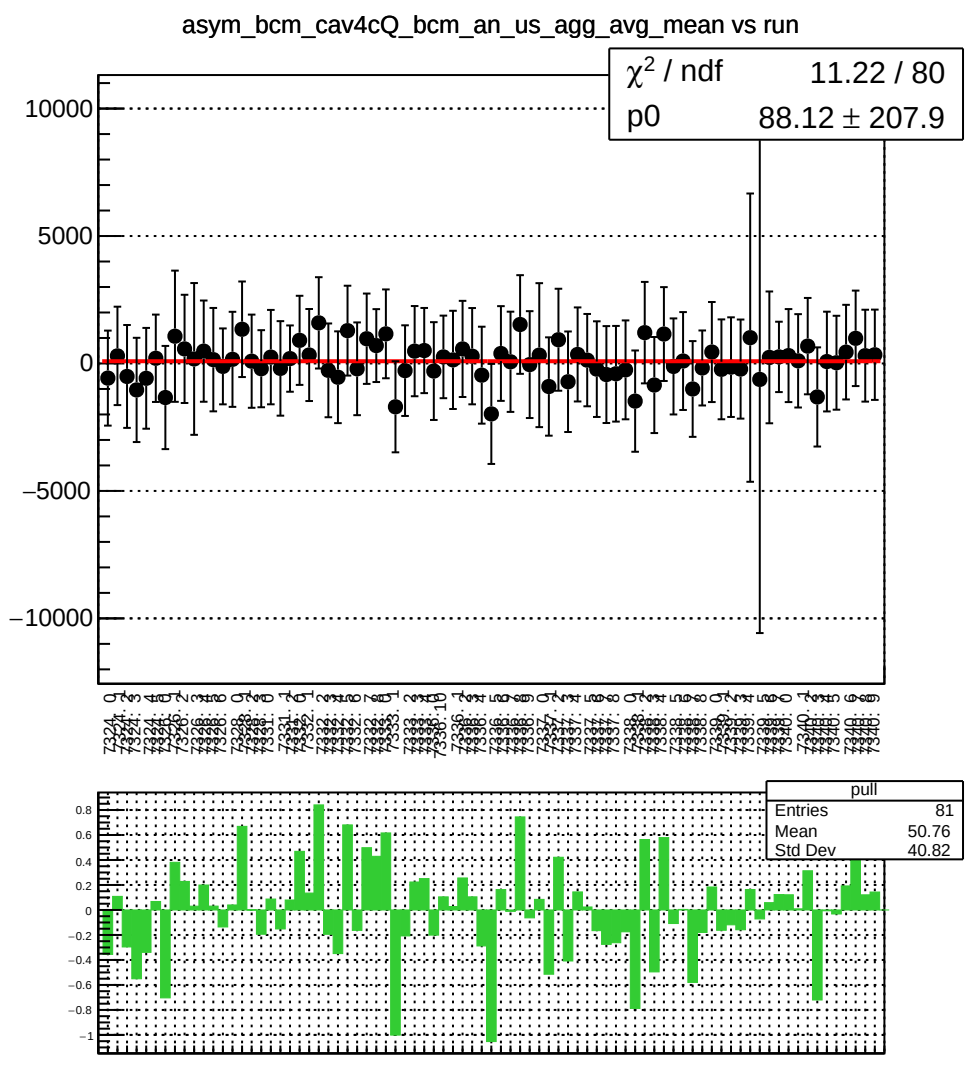

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.4 / 80
p0 17.87 ± 200.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 59.24
Std Dev 30.43
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

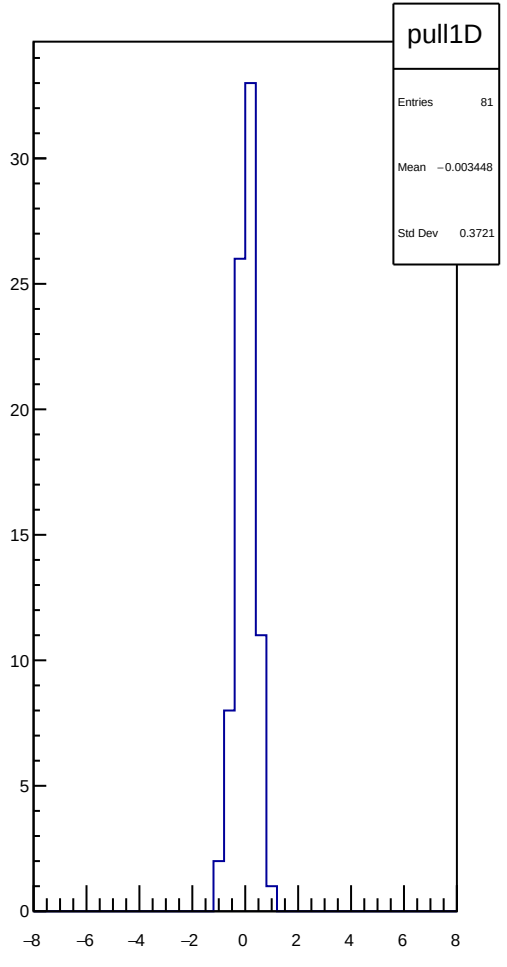

pull1D
Entries 81
Mean −0.003986
Std Dev 0.4068
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

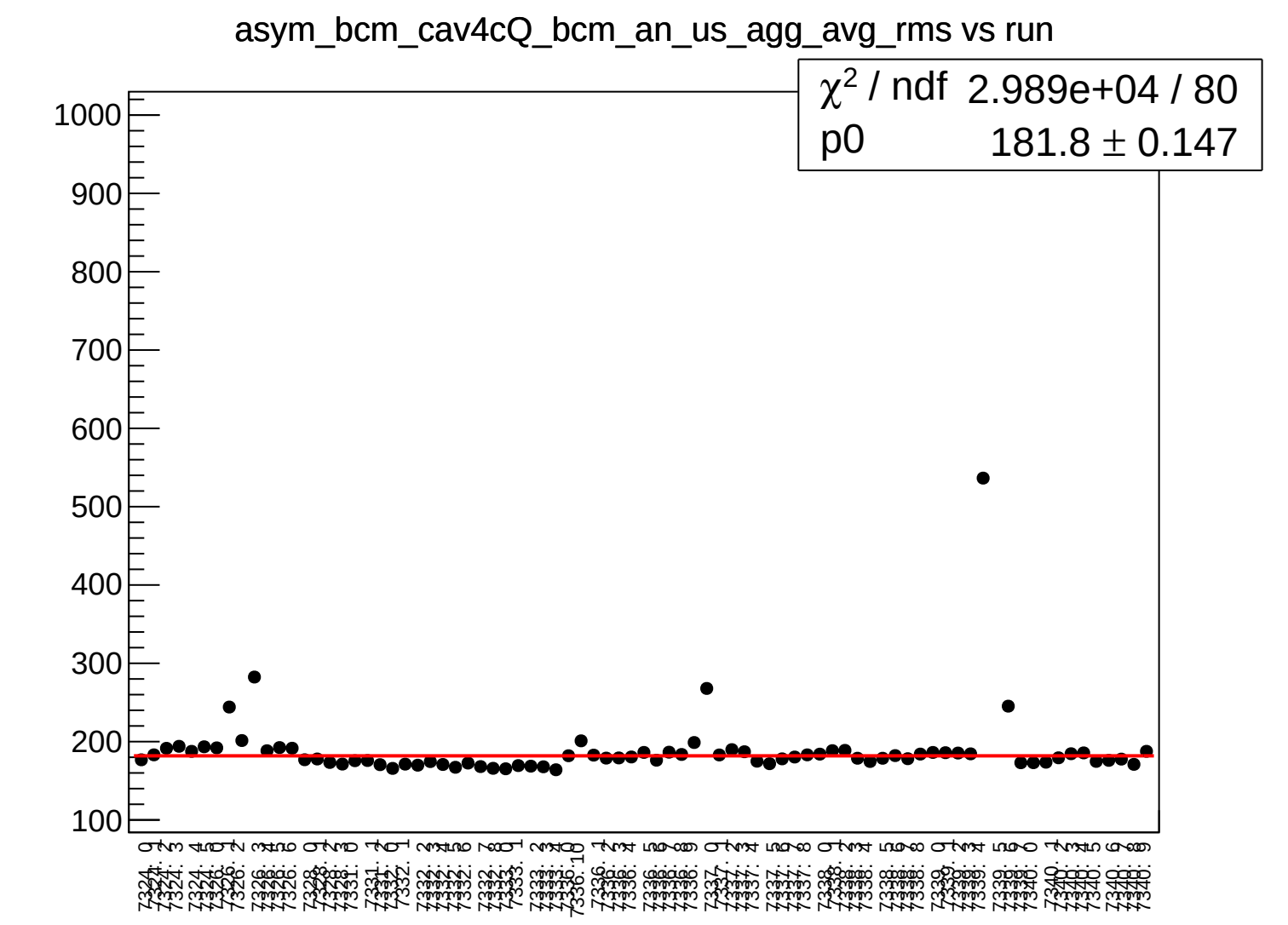

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.76e+04 / 80
p0 175.3 ± 0.1416
900
800
700
600
500
400
300
200
100

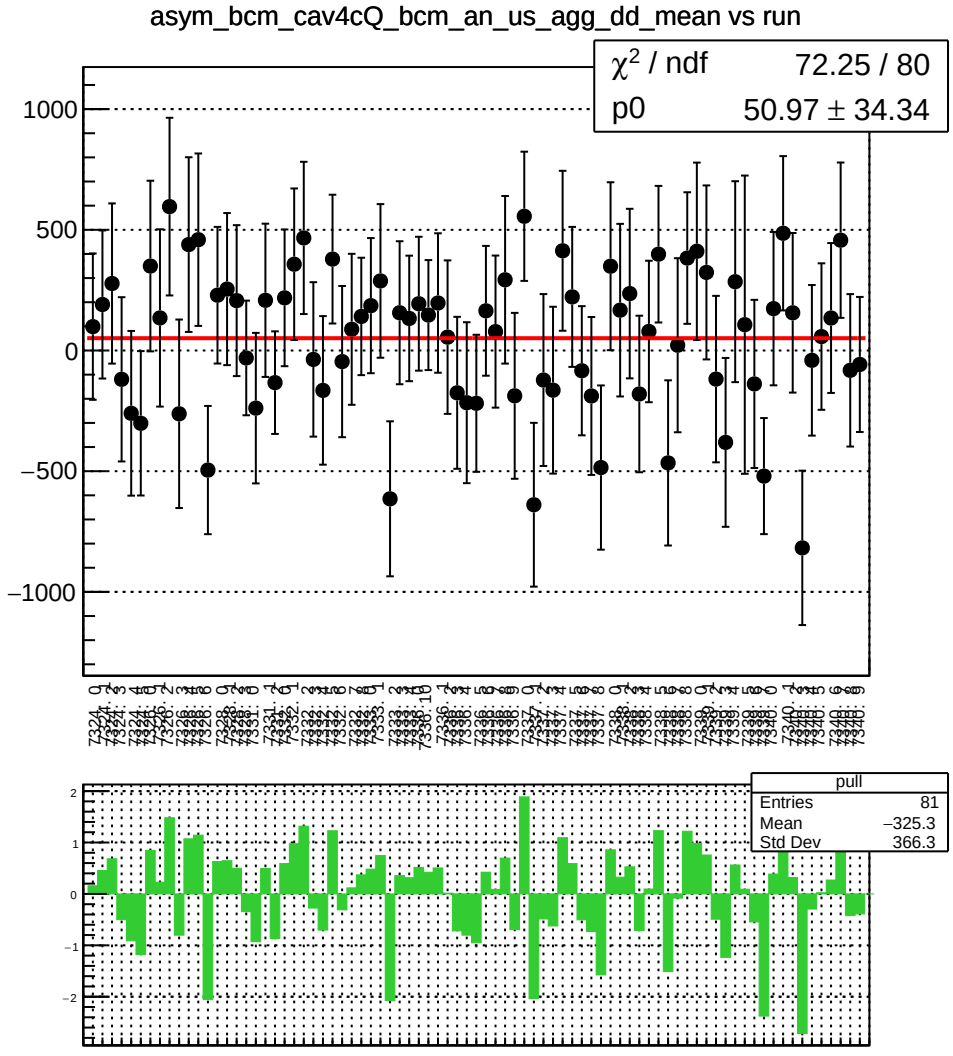

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.69 / 80
p0 86.8 ± 29.23
1000
500
0
−500
−1000
pull
Entries 81
Mean −432.2
Std Dev 484.2
pull1D
Entries 81
Mean 0.009562
Std Dev 0.9407

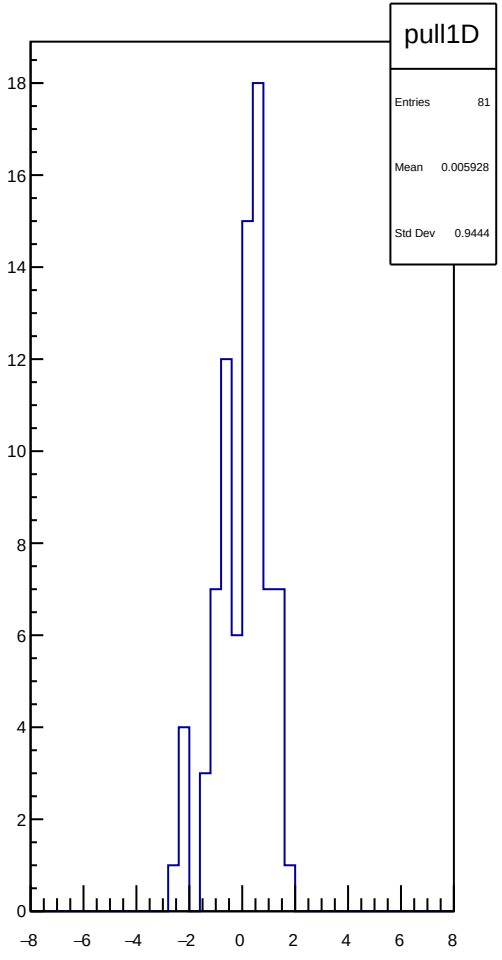

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4008 / 80
p0 25.78 ± 0.02067
36
34
32
30
28
26
24

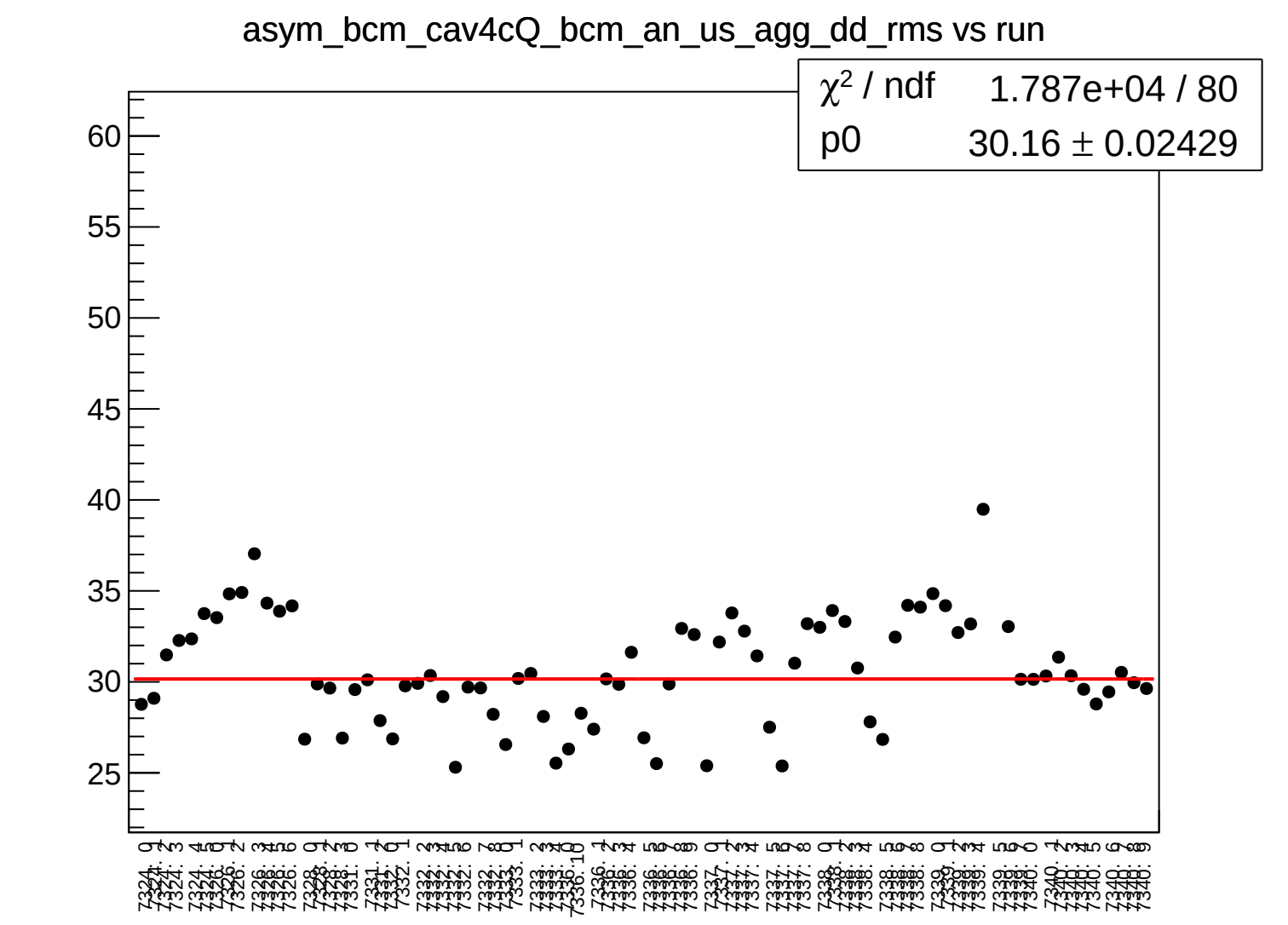

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.22 / 80
p0 88.12 ± 207.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 50.76
Std Dev 40.82
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

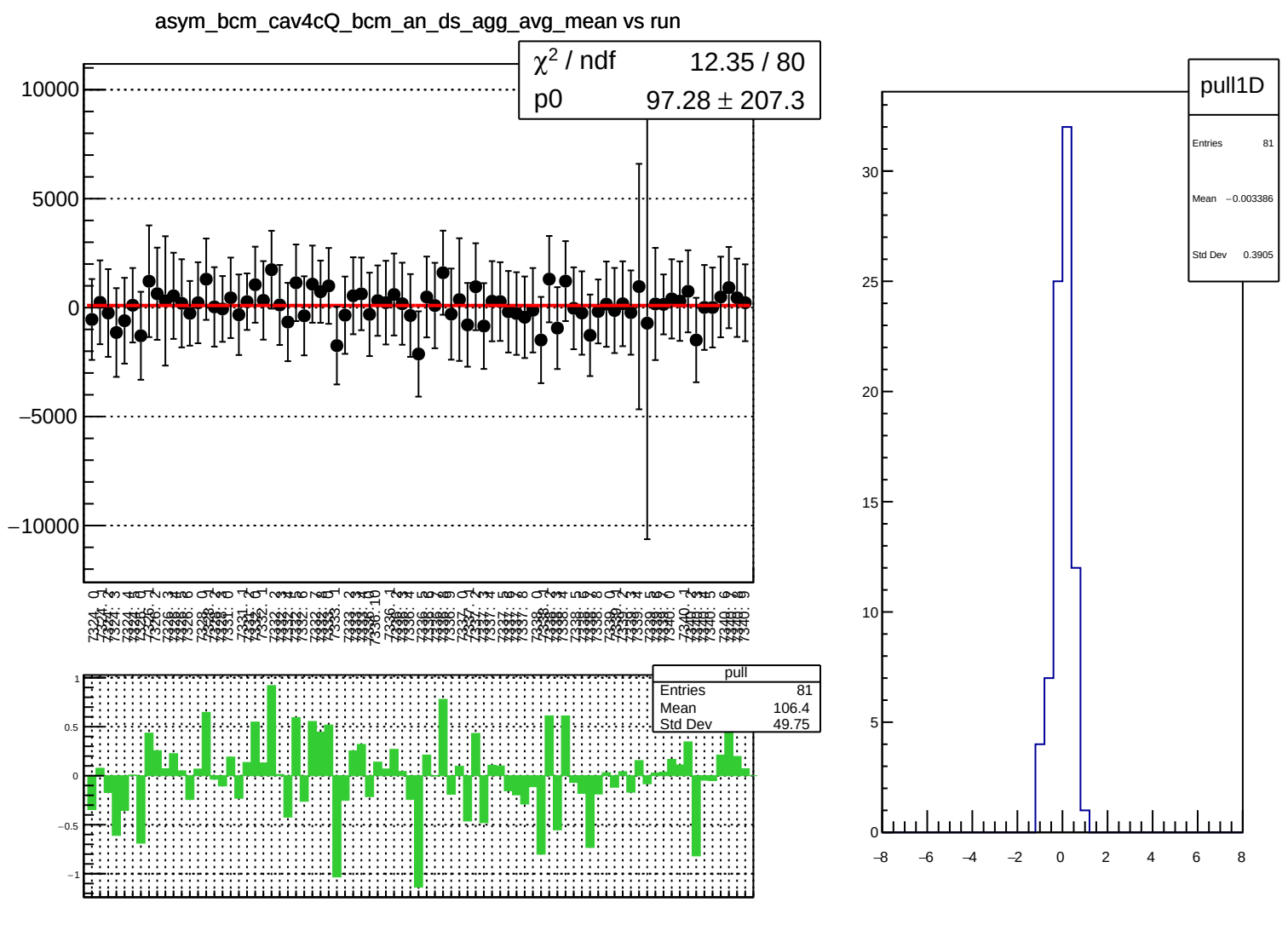

pull1D
Entries 81
Mean −0.003448
Std Dev 0.3721
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

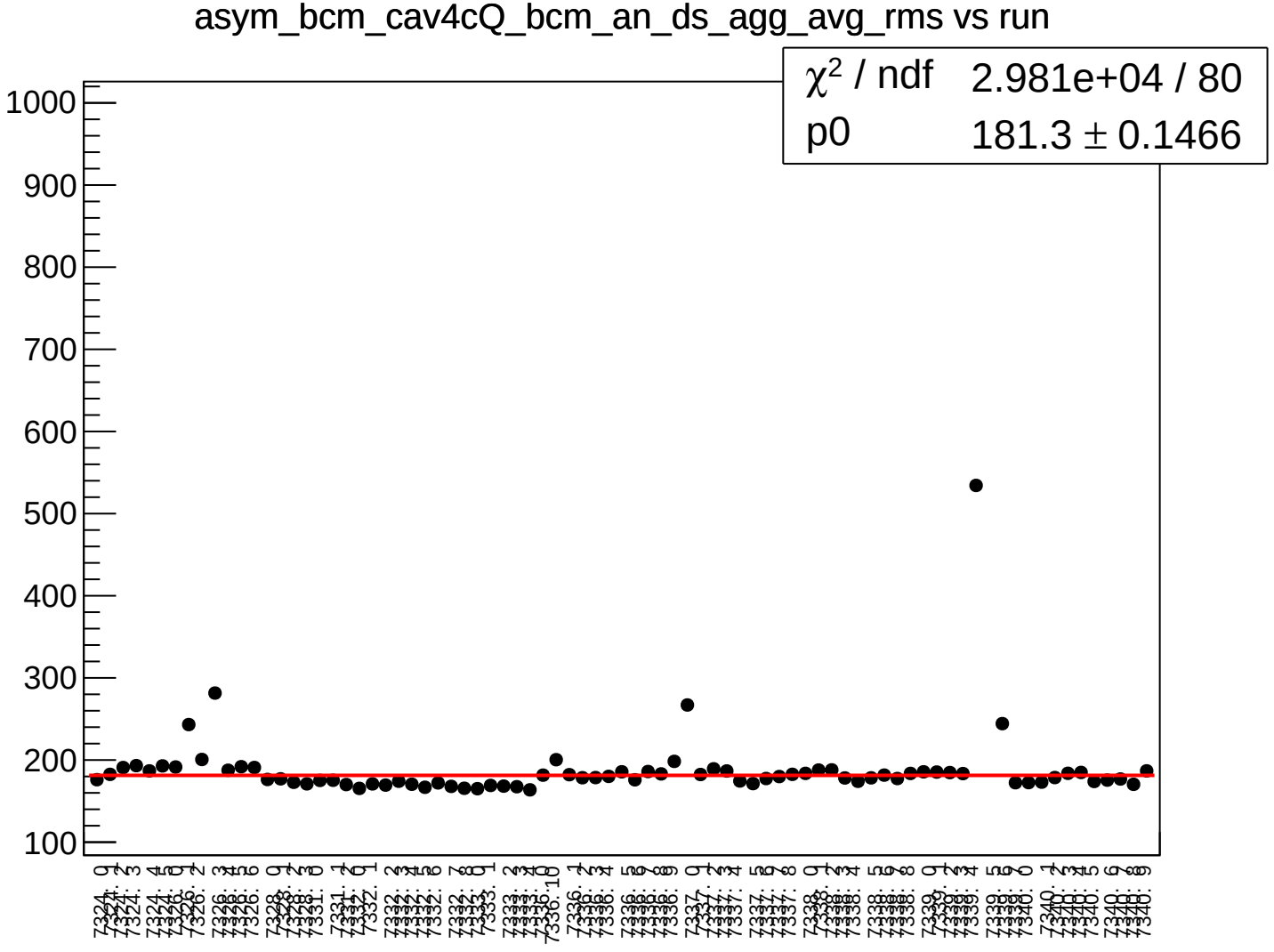

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.989e+04 / 80
p0 181.8 ± 0.147
1000
900
800
700
600
500
400
300
200
100

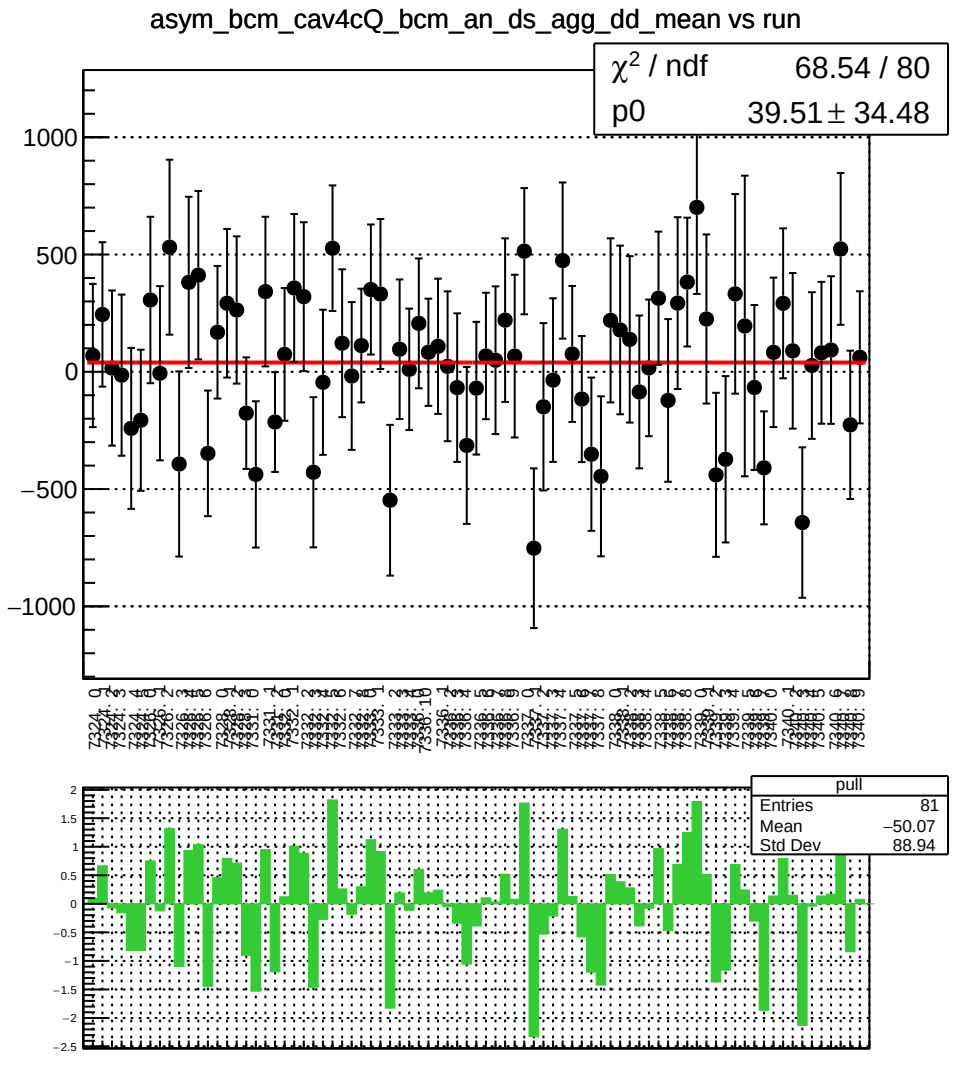

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.25 / 80
p0 50.97 ± 34.34
1000
500
0
−500
−1000
pull
Entries 81
Mean −325.3
Std Dev 366.3
2
1
0
−1
−2

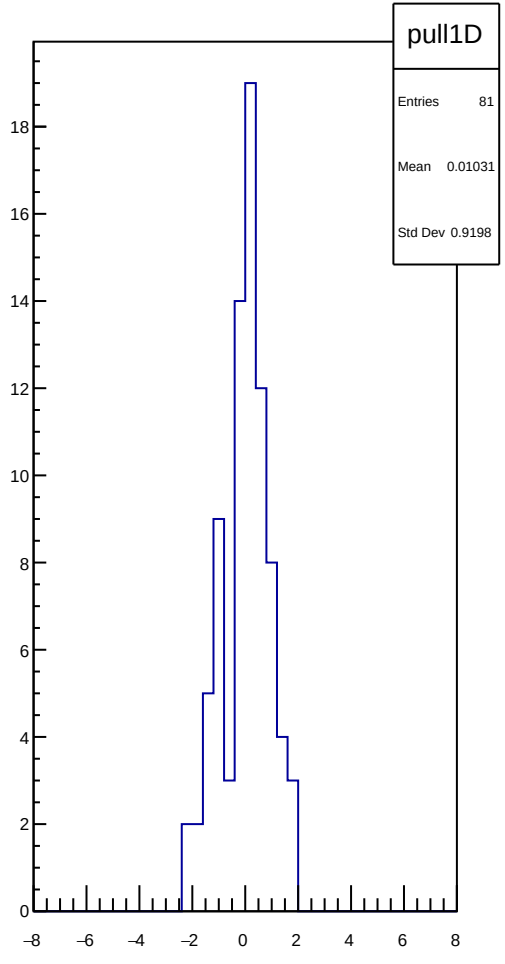

pull1D
Entries 81
Mean 0.005928
Std Dev 0.9444
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

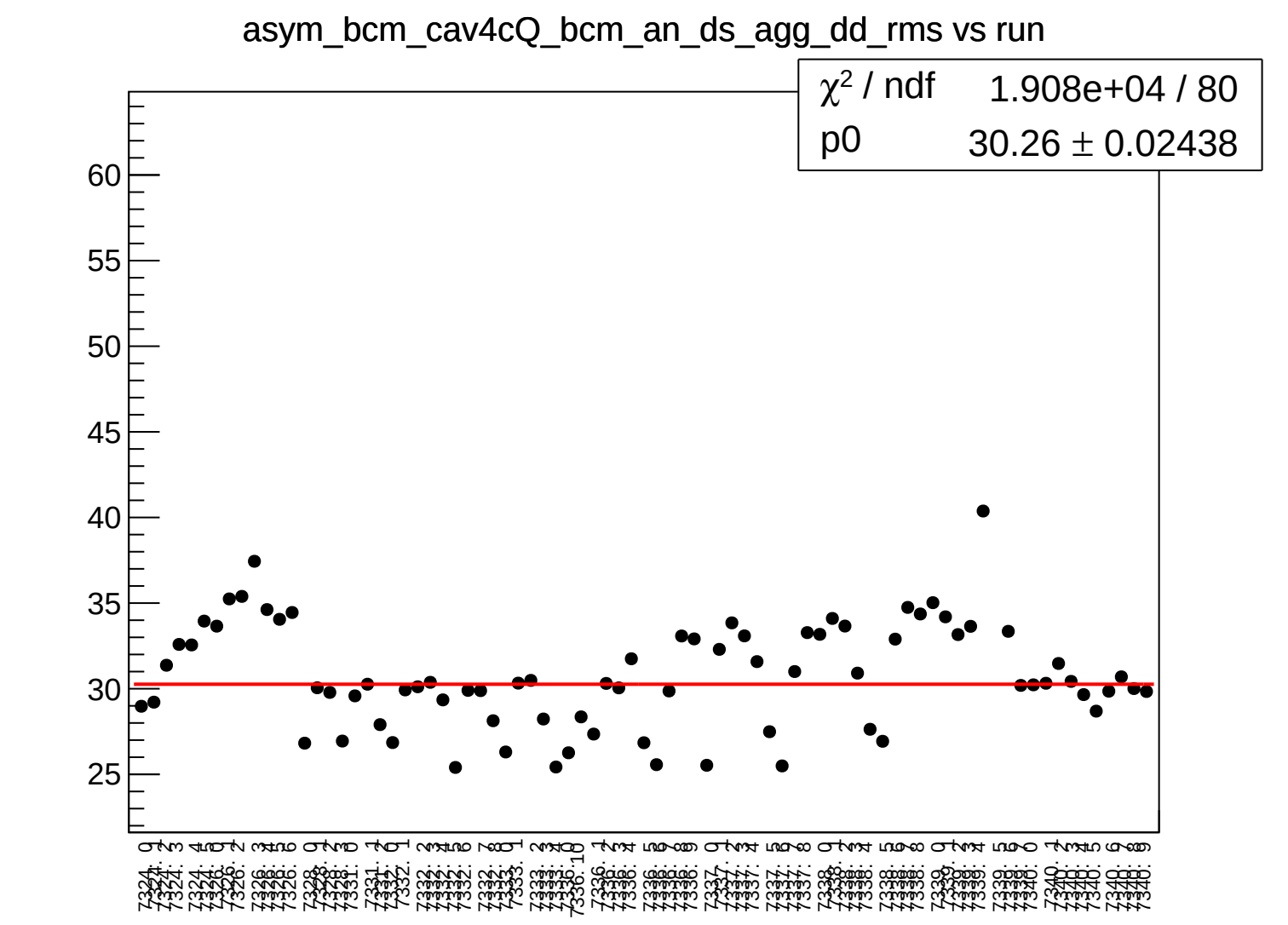

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.787e+04 / 80
p0 30.16 ± 0.02429
60
55
50
45
40
35
30
25

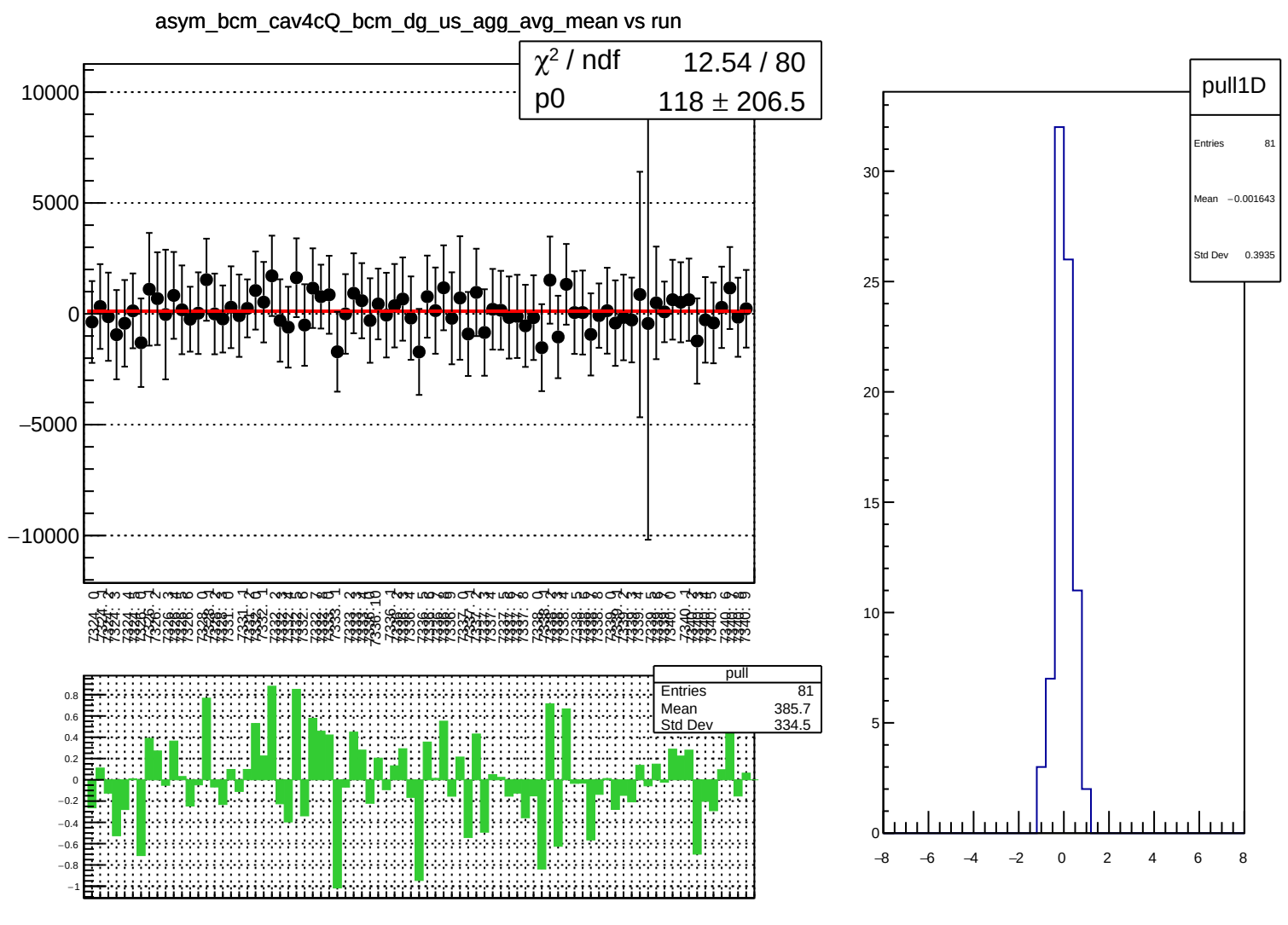

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.35 / 80
p0 97.28 ± 207.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 106.4
Std Dev 49.75
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.003386
Std Dev 0.3905
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

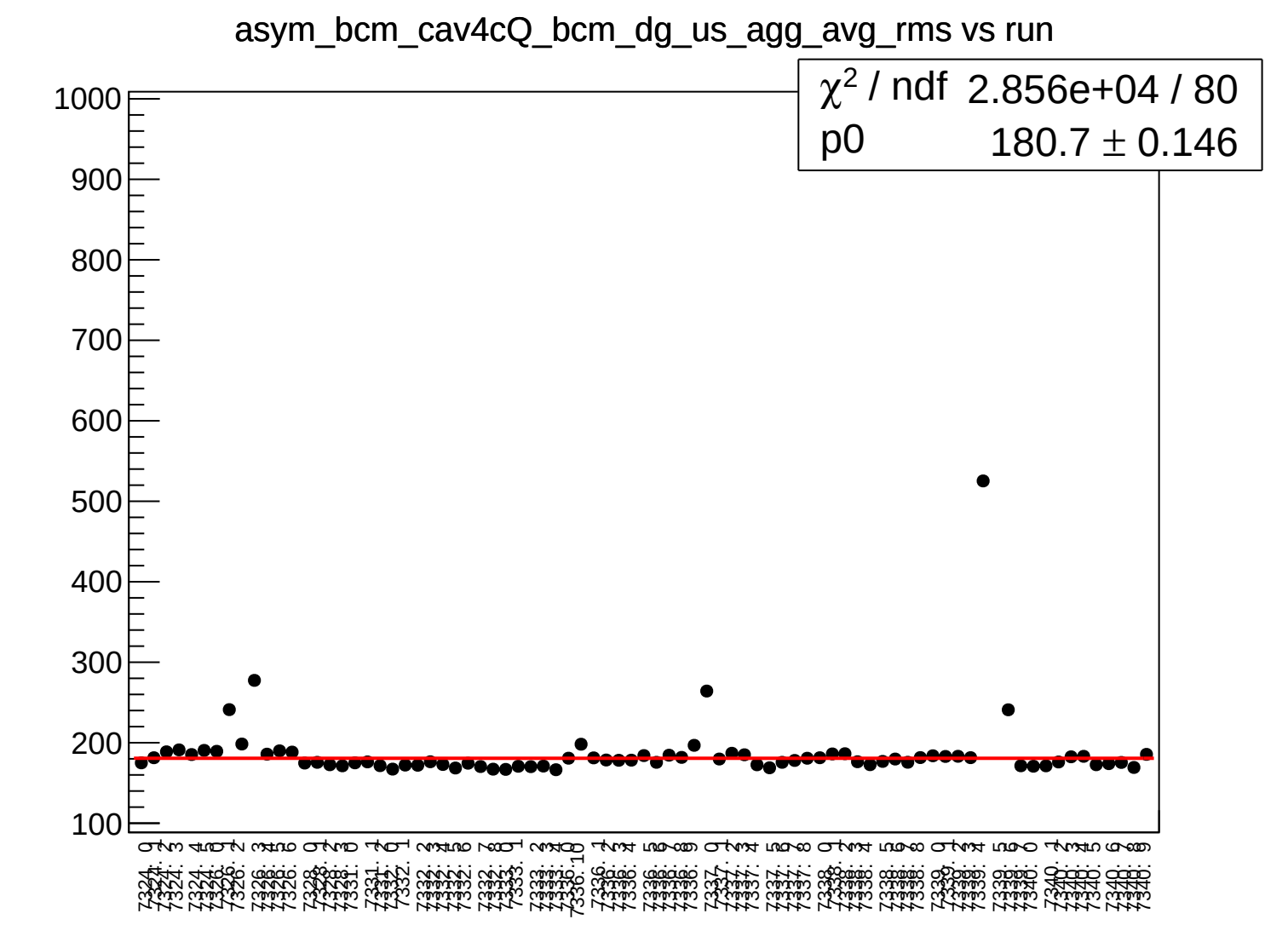

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.981e+04 / 80
p0 181.3 ± 0.1466
1000
900
800
700
600
500
400
300
200
100

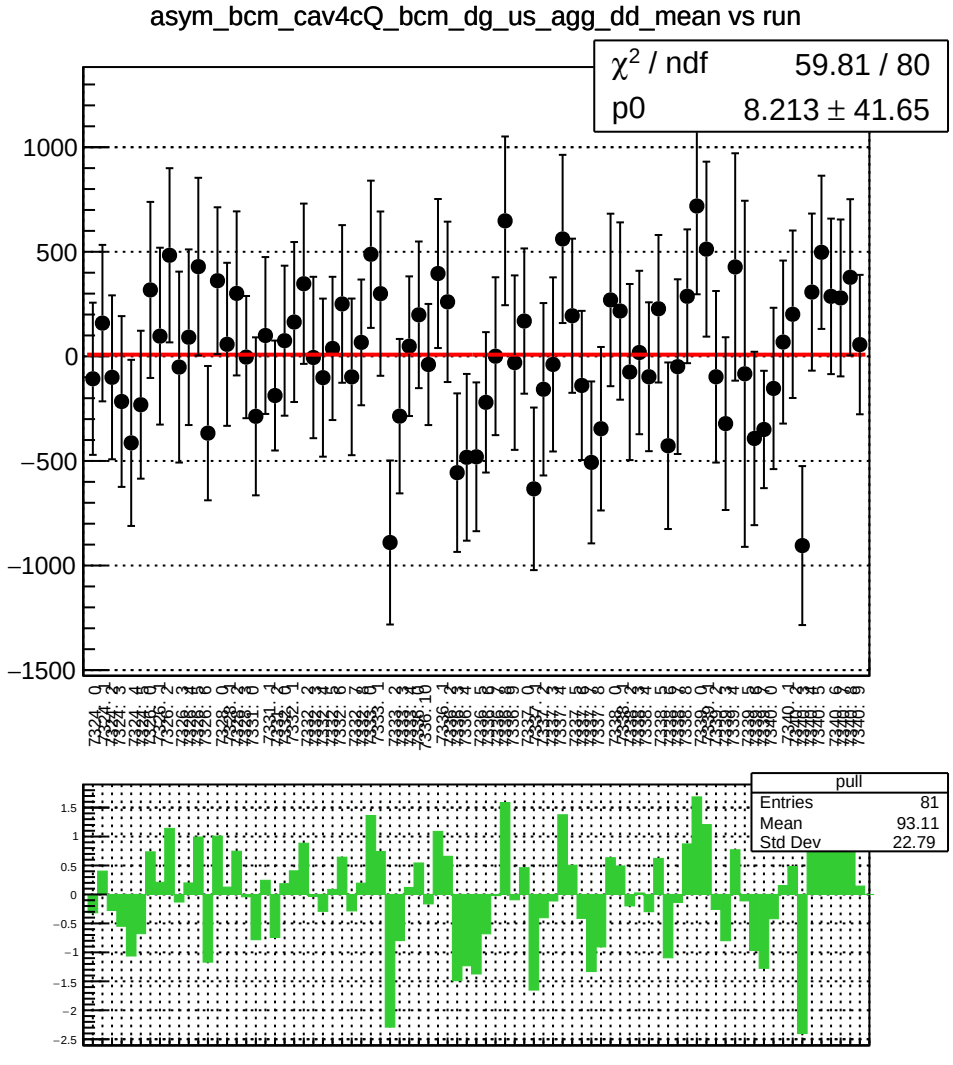

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.54 / 80
p0 39.51 ± 34.48
1000
500
0
−500
−1000
pull
Entries 81
Mean −50.07
Std Dev 88.94
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

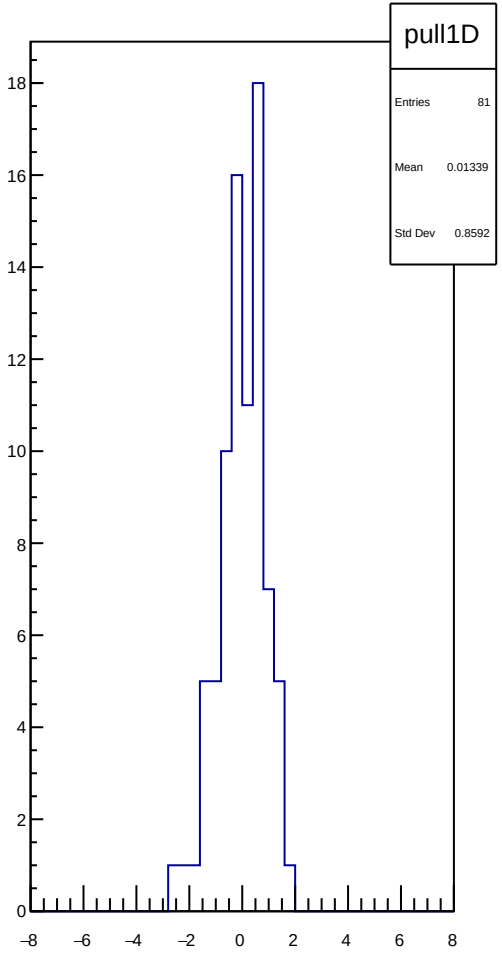

pull1D
Entries 81
Mean 0.01031
Std Dev 0.9198
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

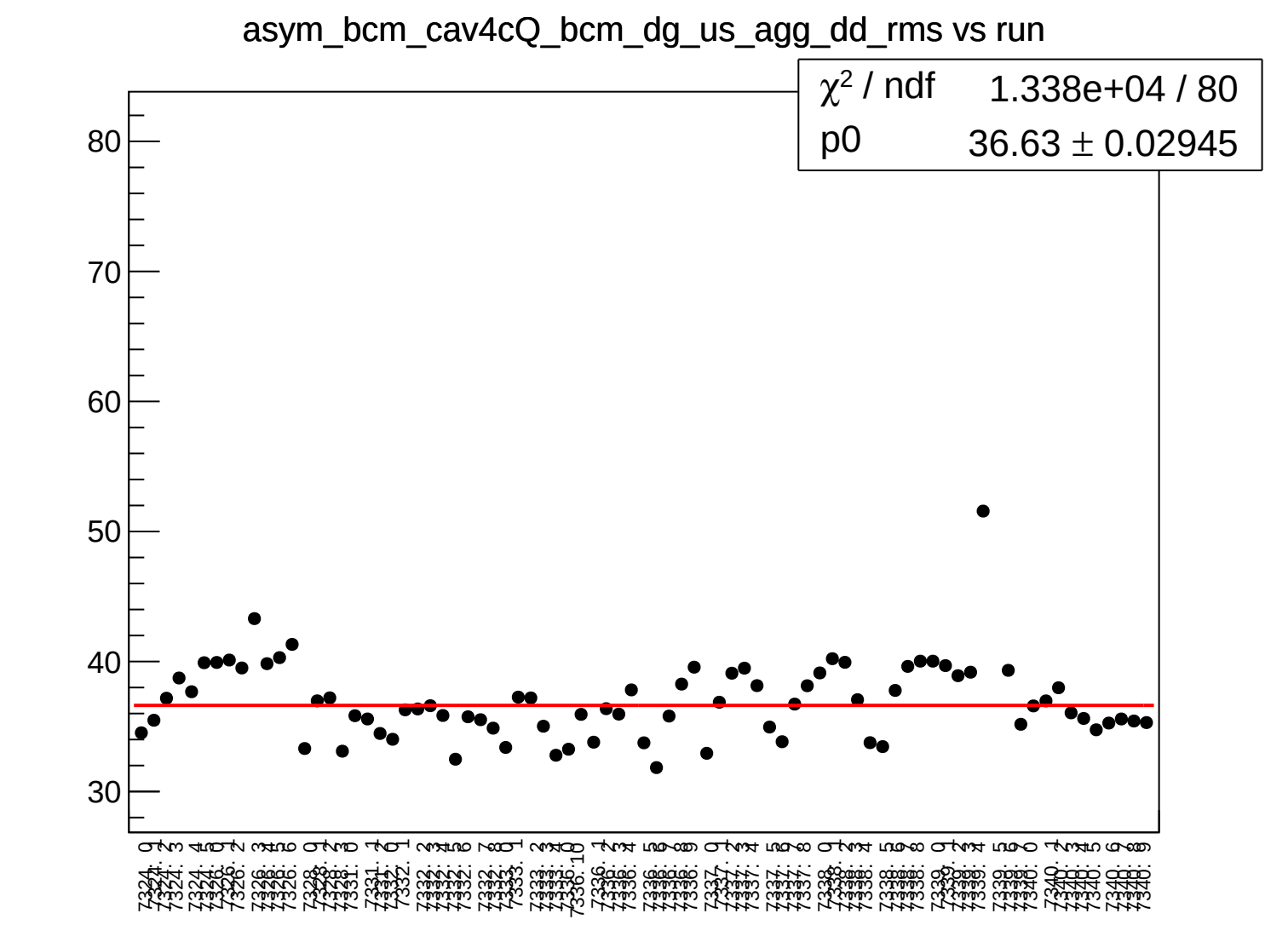

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.908e+04 / 80
p0 30.26 ± 0.02438
60
55
50
45
40
35
30
25

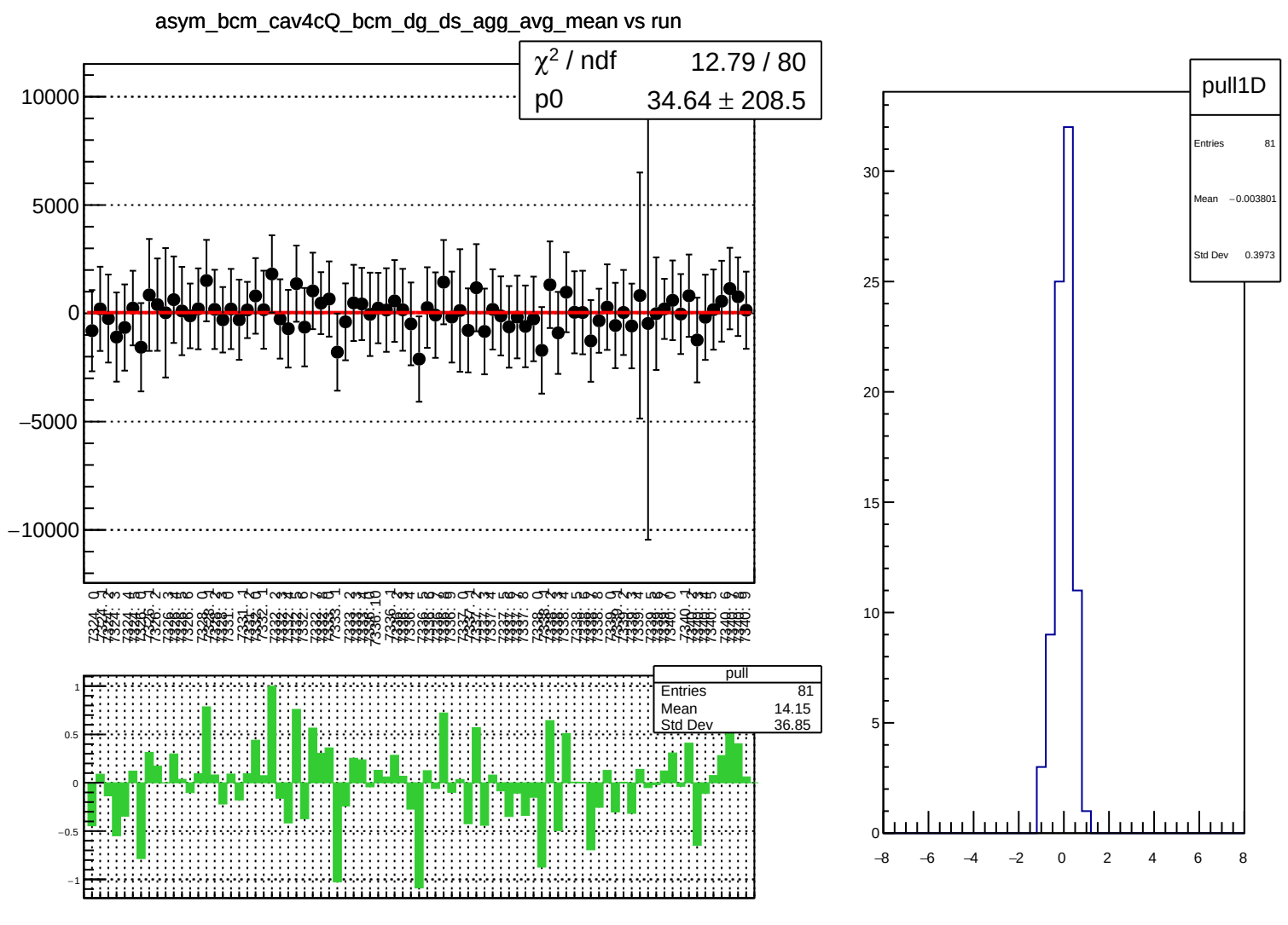

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.54 / 80
p0 118 ± 206.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 385.7
Std Dev 334.5
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
pull1D
Entries 81
Mean −0.001643
Std Dev 0.3935
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

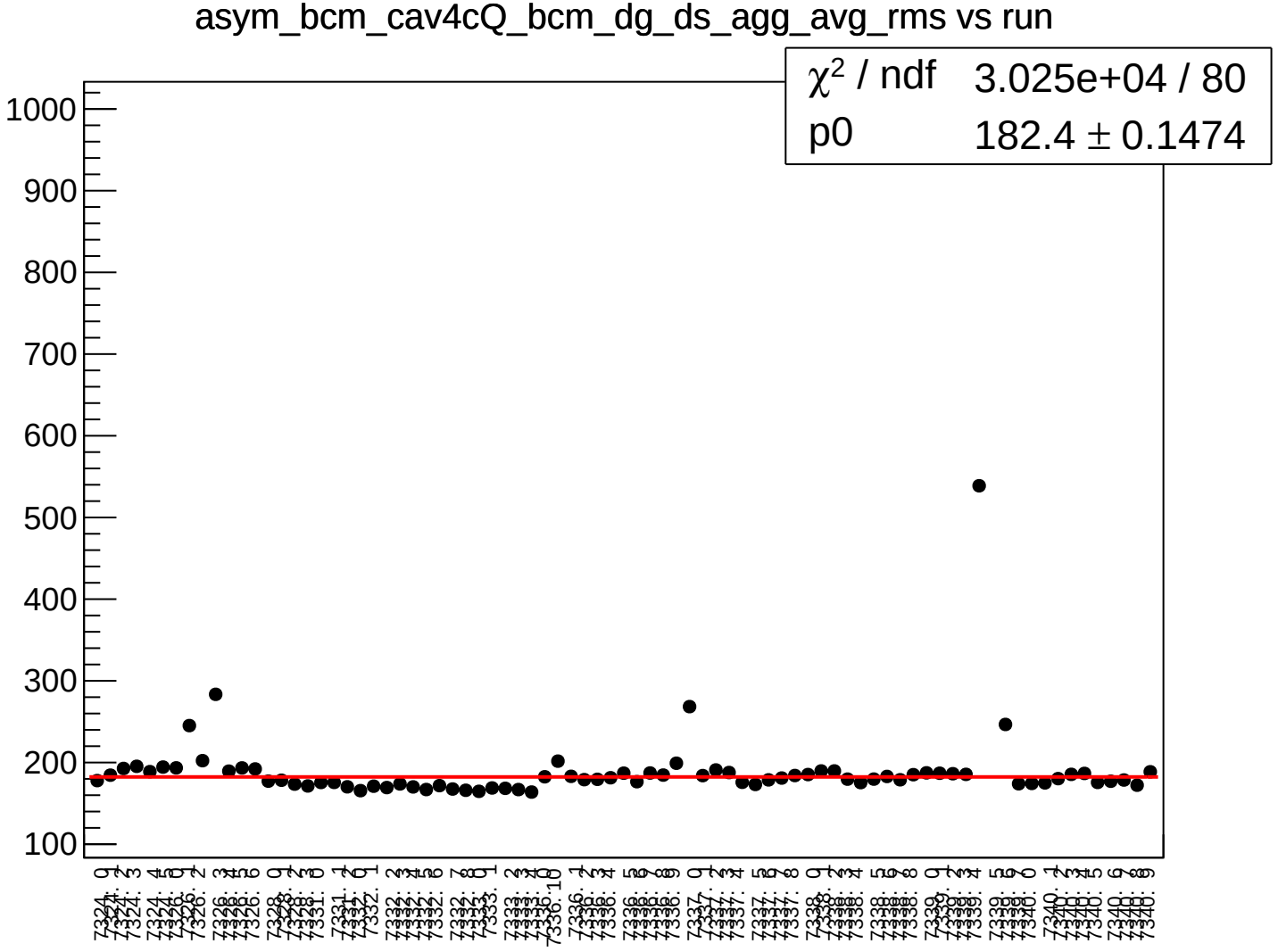

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2.856e+04 / 80
p0 180.7 ± 0.146
1000
900
800
700
600
500
400
300
200
100

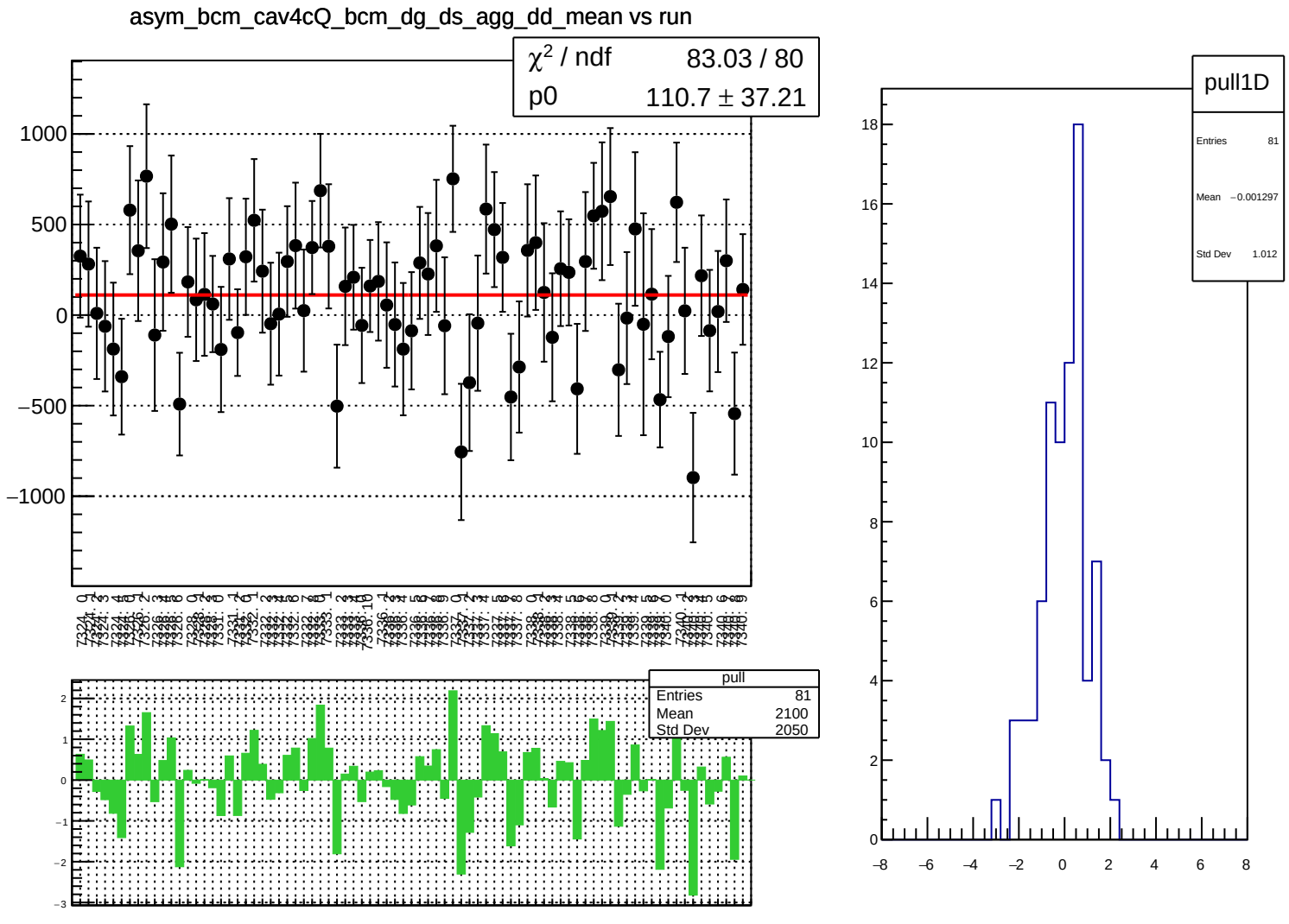

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 59.81 / 80
p0 8.213 ± 41.65
pull
Entries 81
Mean 93.11
Std Dev 22.79

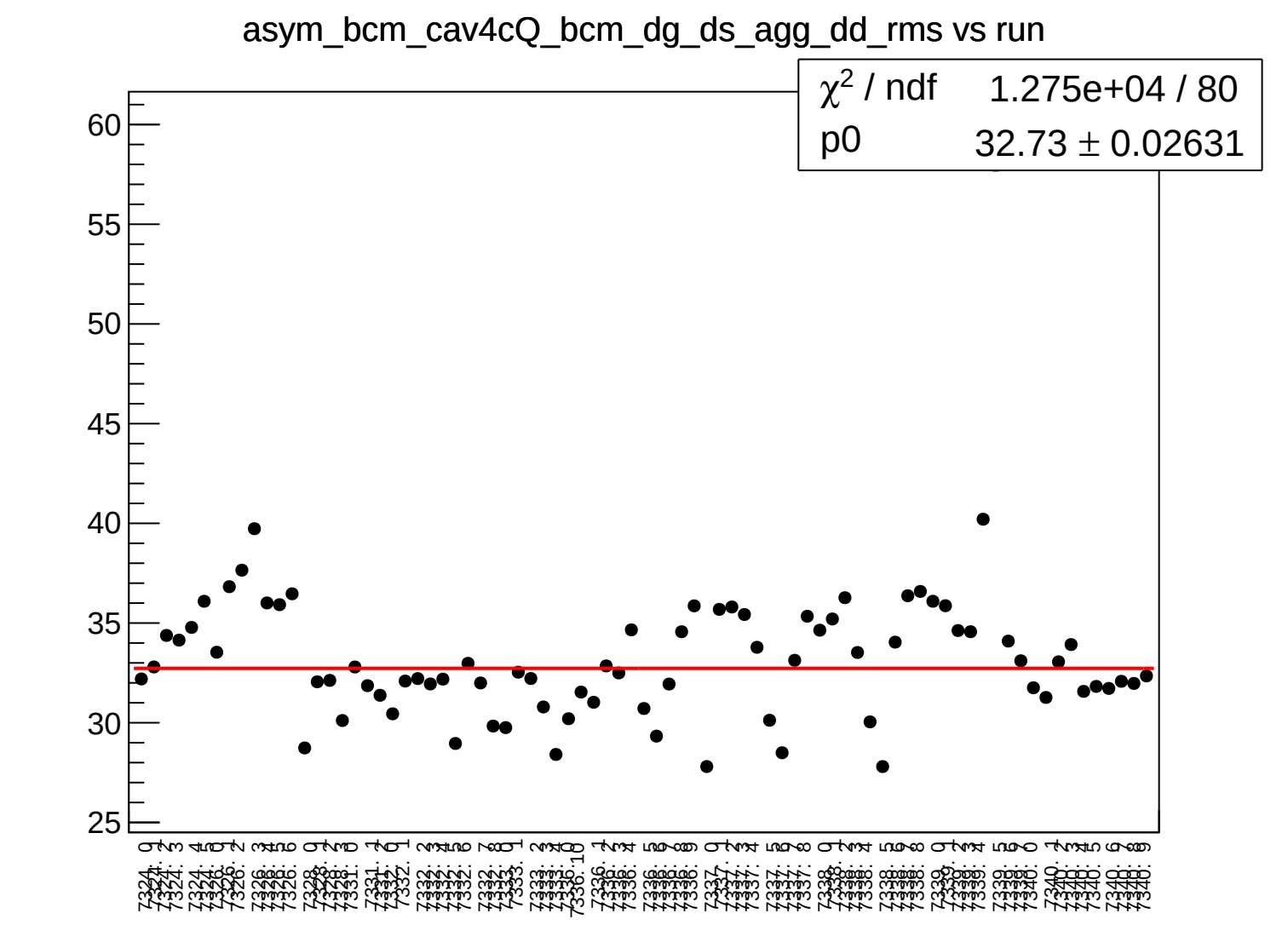

pull1D
Entries 81
Mean 0.01339
Std Dev 0.8592

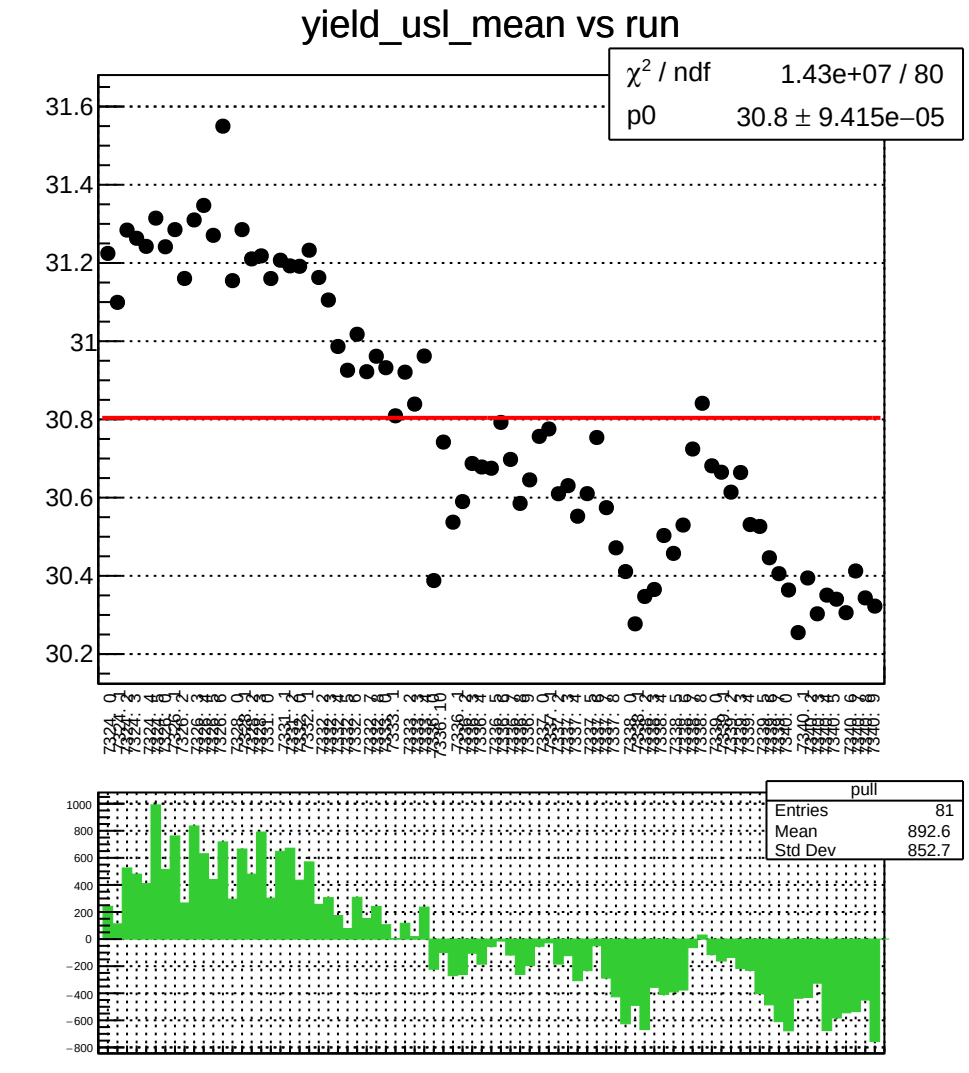

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1.338e+04 / 80
p0 36.63 ± 0.02945
80
70
60
50
40
30

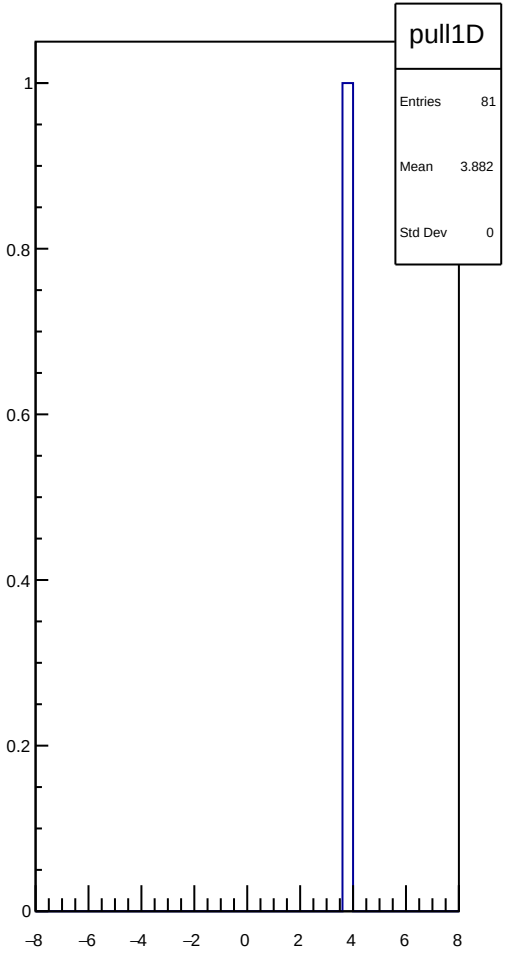

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.79 / 80
p0 34.64 ± 208.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 14.15
Std Dev 36.85
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean −0.003801
Std Dev 0.3973
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

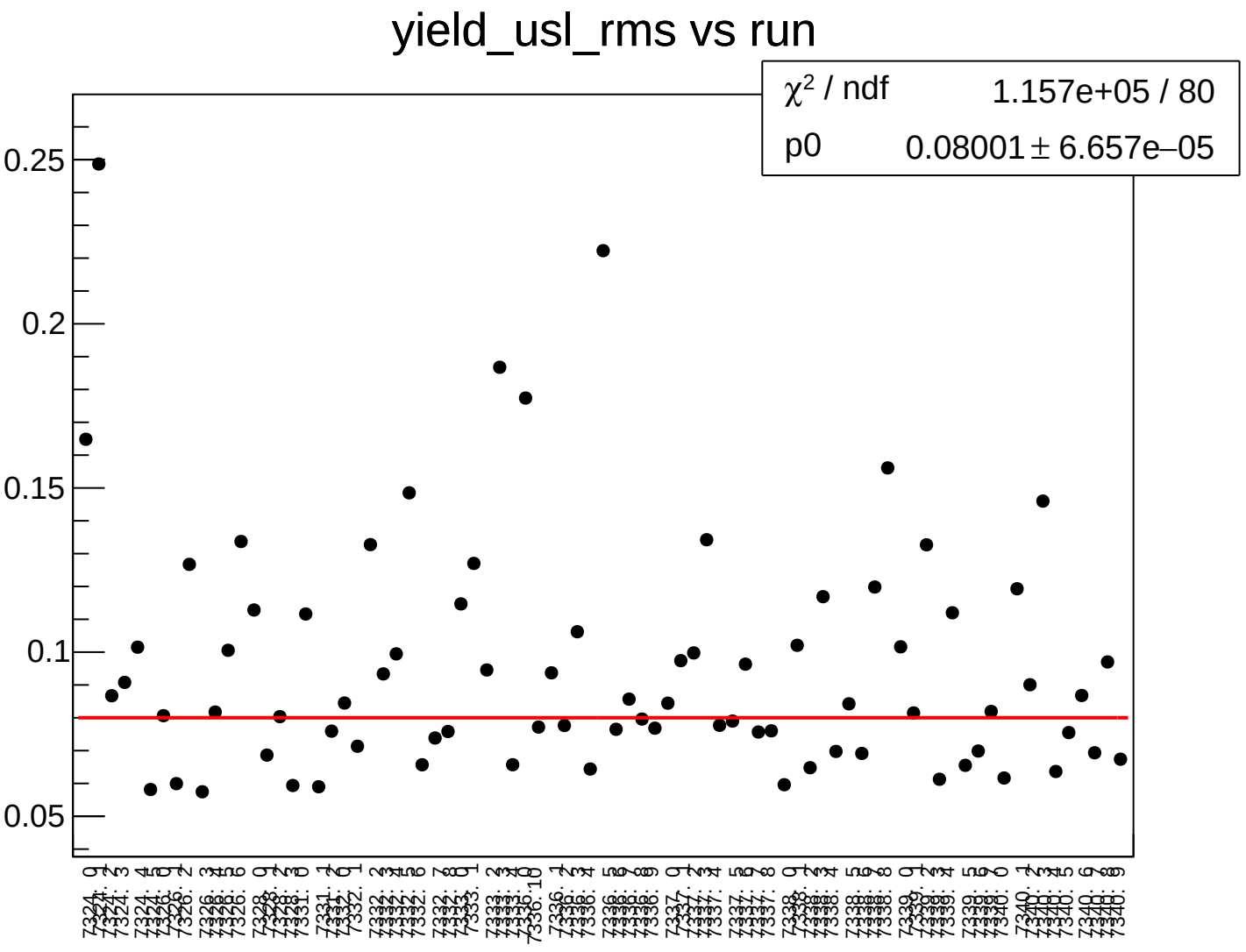

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.025e+04 / 80
p0 182.4 ± 0.1474
1000
900
800
700
600
500
400
300
200
100

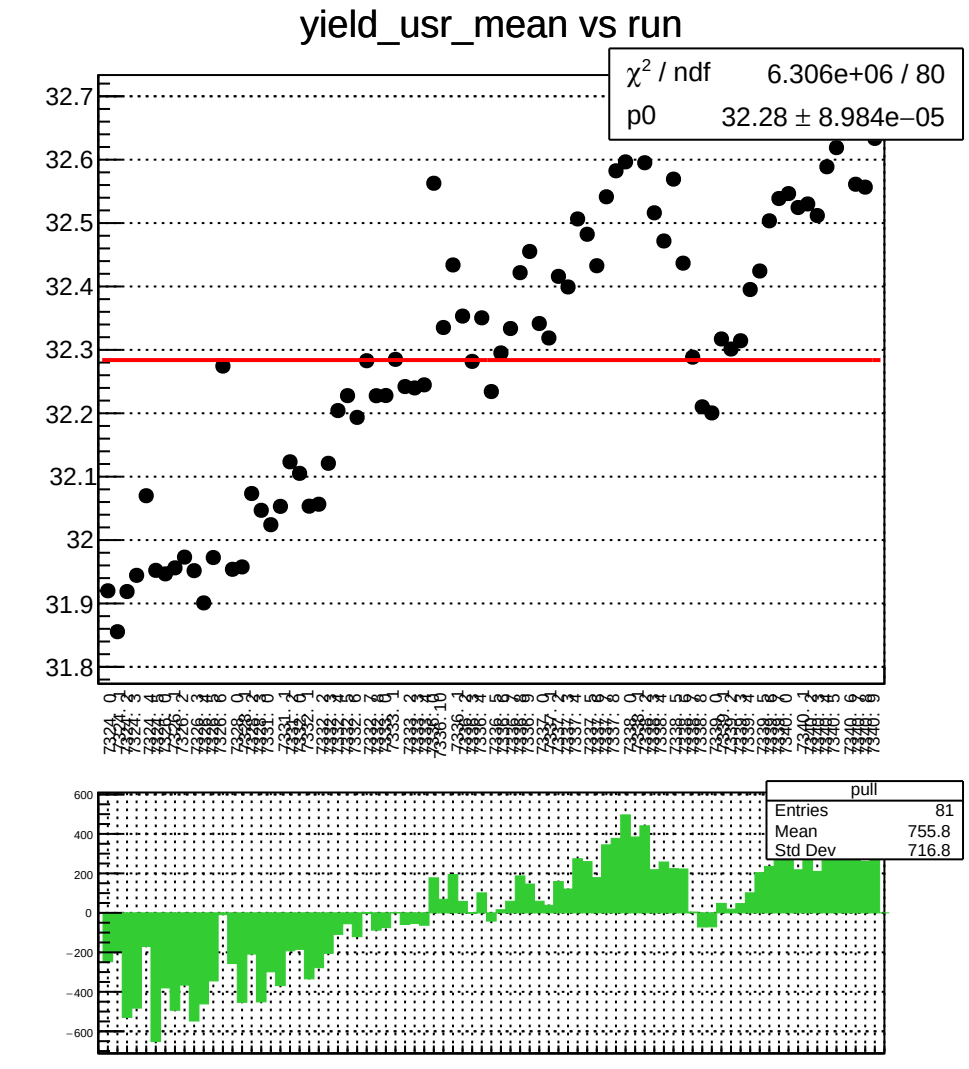

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 83.03 / 80
p0 110.7 ± 37.21
1000
500
0
−500
−1000
pull
Entries 81
Mean 2100
Std Dev 2050
pull1D
Entries 81
Mean −0.001297
Std Dev 1.012

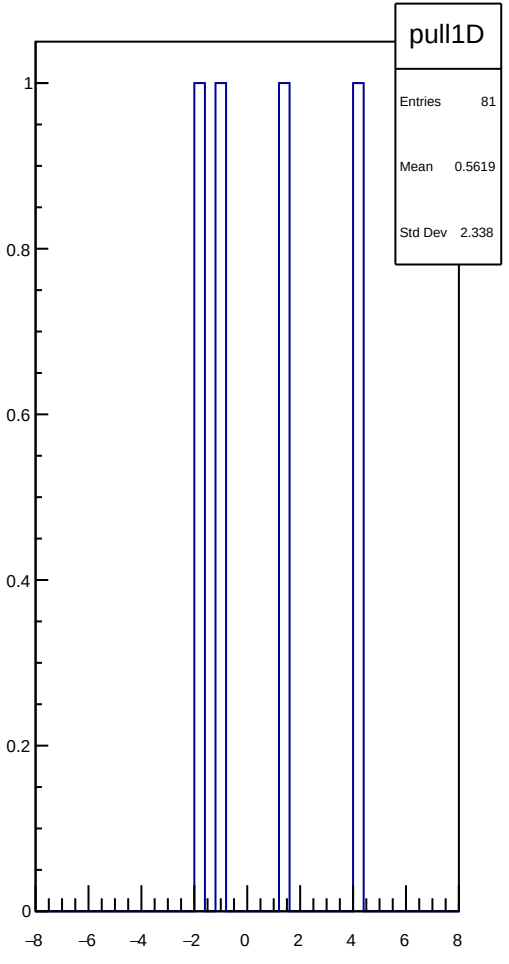

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.275e+04 / 80
p0 32.73 ± 0.02631
60
55
50
45
40
35
30
25

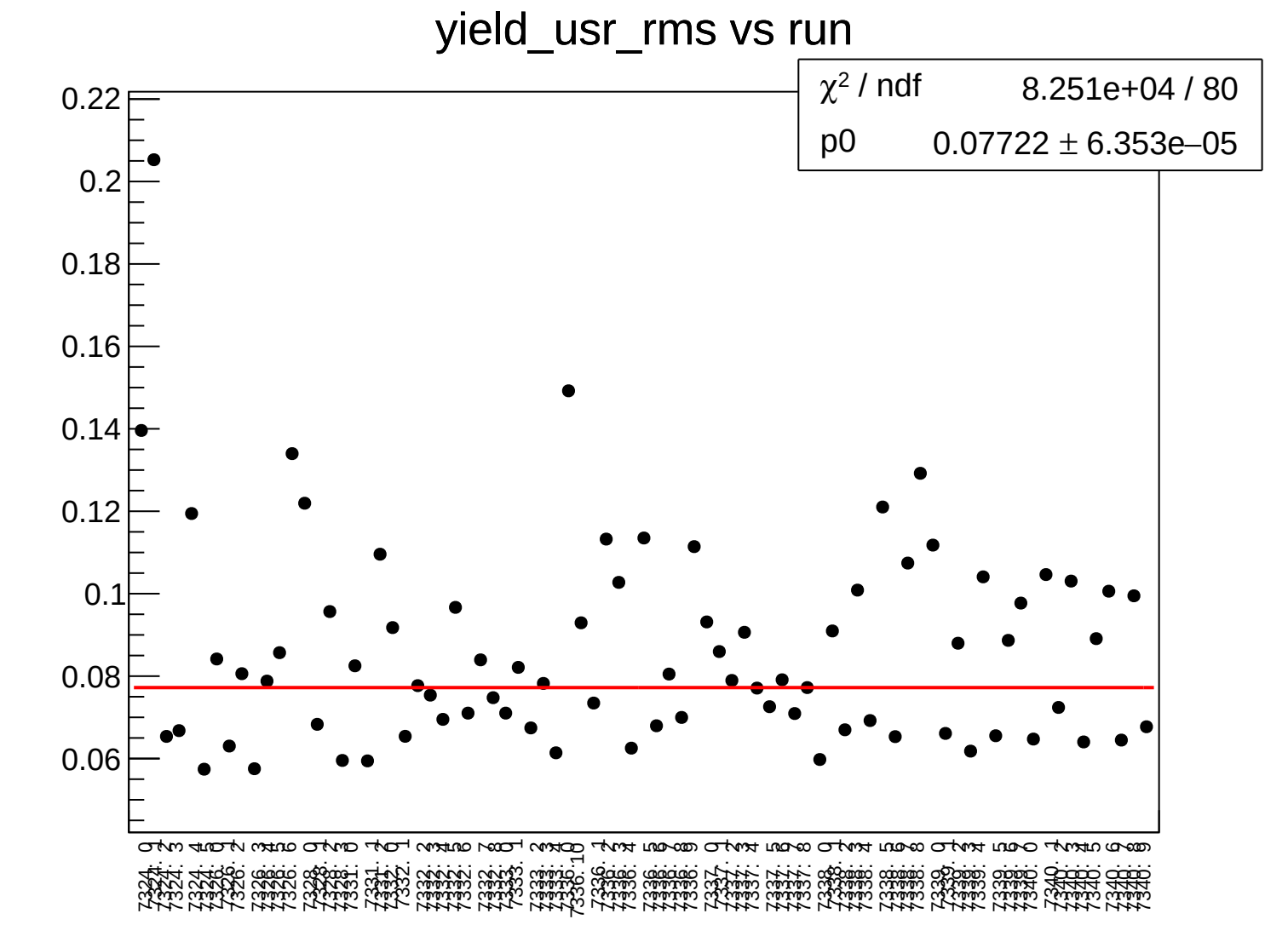

yield_usl_mean vs run
χ² / ndf 1.43e+07 / 80
p0 30.8 ± 9.415e−05
31.6
31.4
31.2
31
30.8
30.6
30.4
30.2
pull
Entries 81
Mean 892.6
Std Dev 852.7
1000
800
600
400
200
0
−200
−400
−600
−800

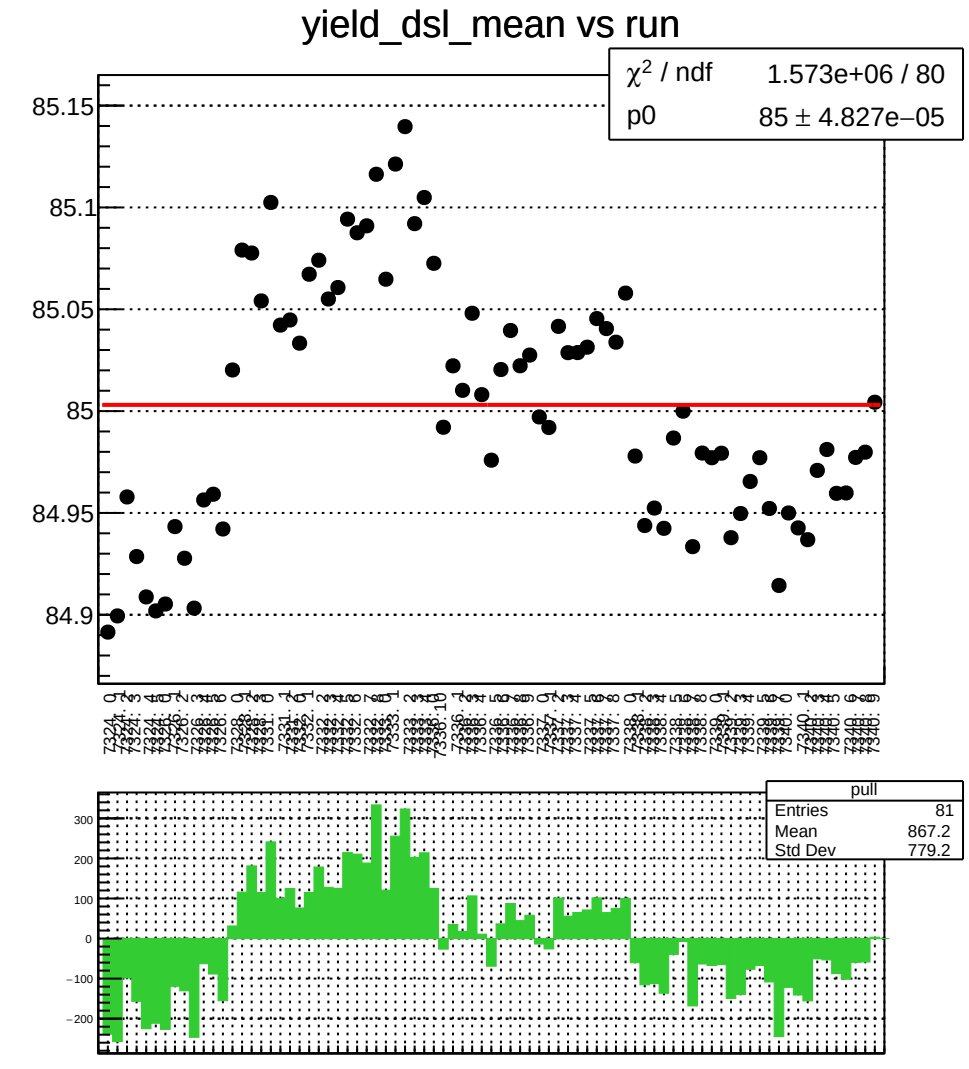

pull1D
Entries 81
Mean 3.882
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

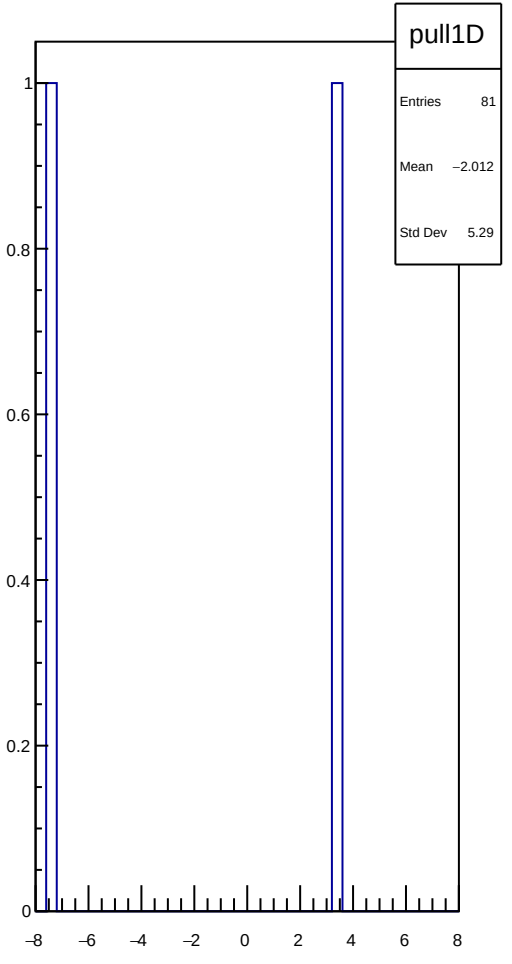

yield_usl_rms vs run
χ² / ndf 1.157e+05 / 80
p0 0.08001 ± 6.657e–05
0.25
0.2
0.15
0.1
0.05

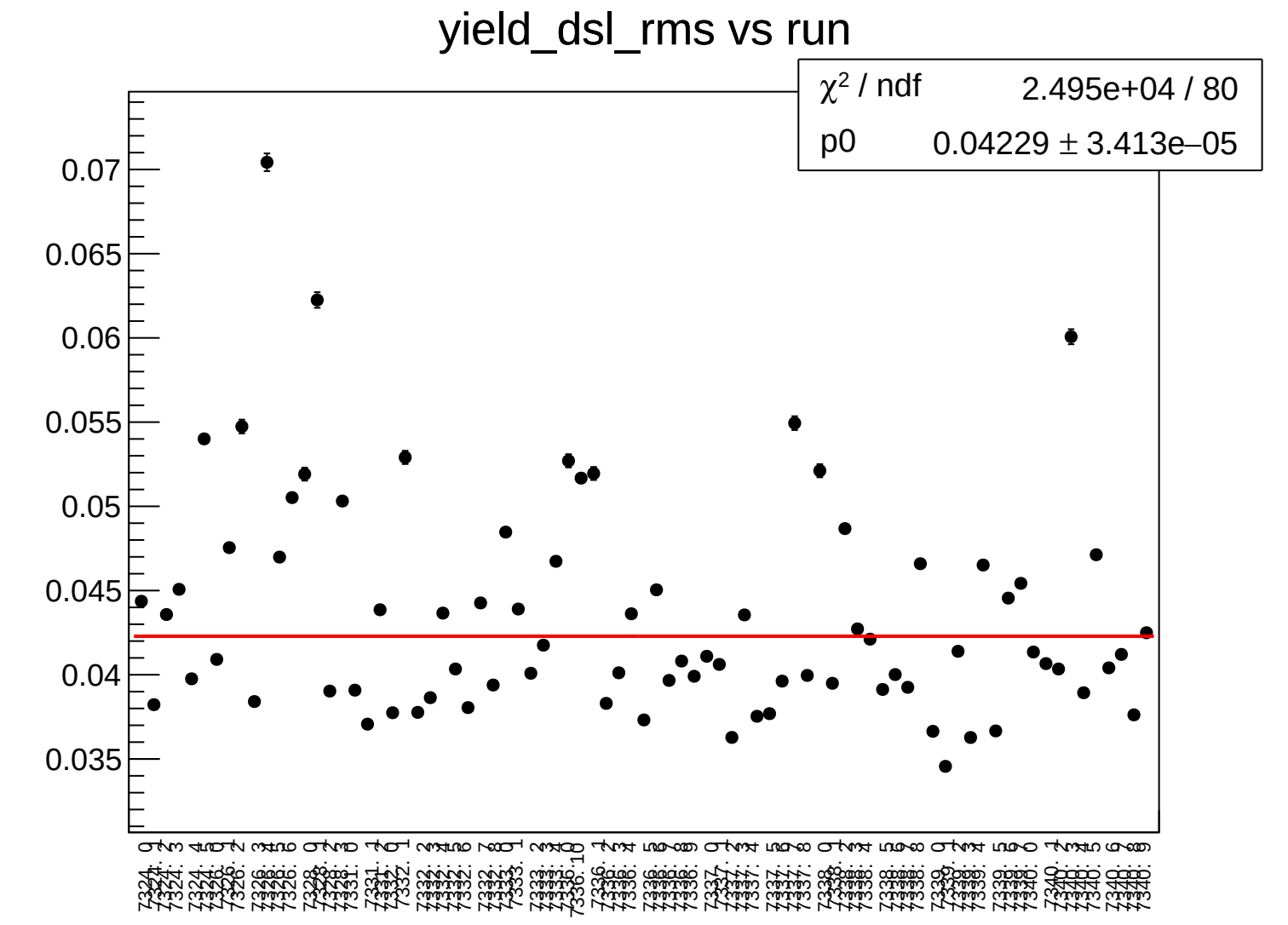

yield_usr_mean vs run
χ² / ndf 6.306e+06 / 80
p0 32.28 ± 8.984e−05
32.7
32.6
32.5
32.4
32.3
32.2
32.1
32
31.9
31.8
pull
Entries 81
Mean 755.8
Std Dev 716.8
600
400
200
0
−200
−400
−600

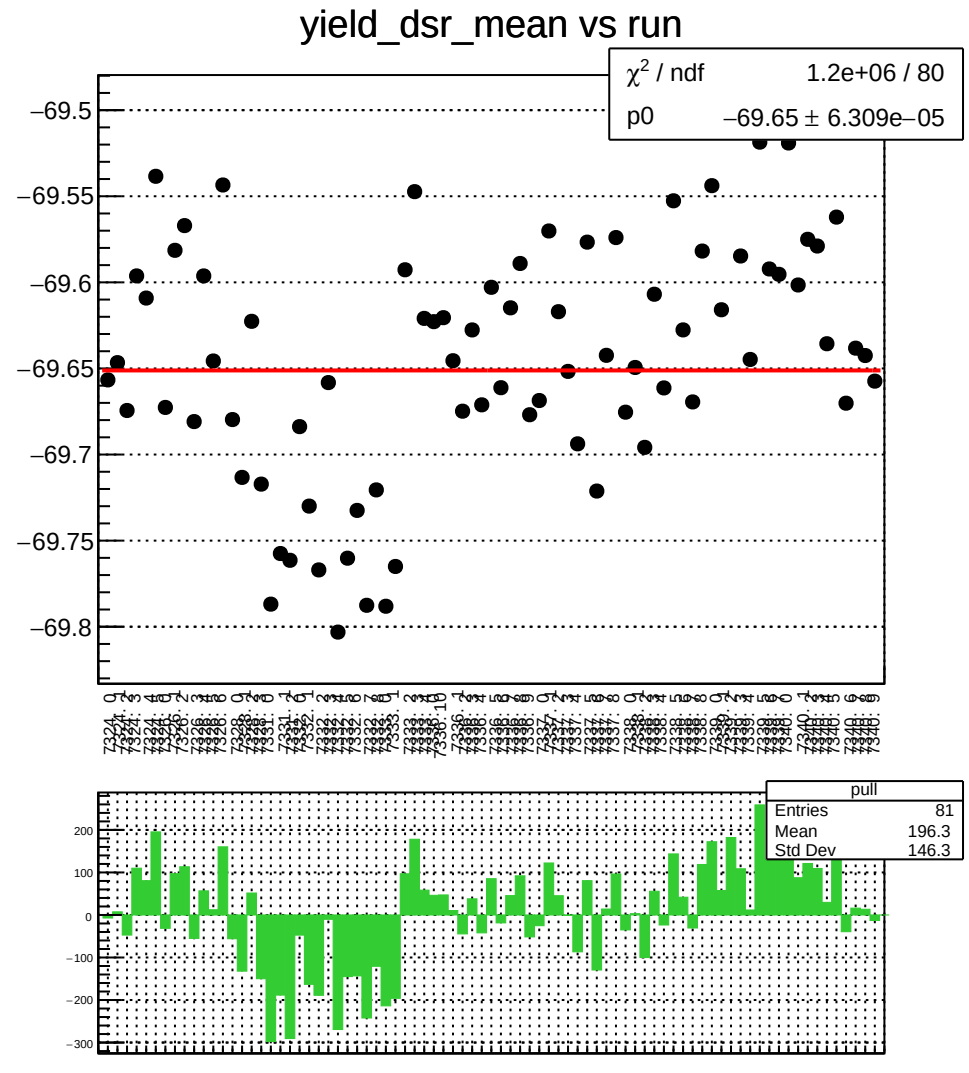

pull1D
Entries 81
Mean 0.5619
Std Dev 2.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

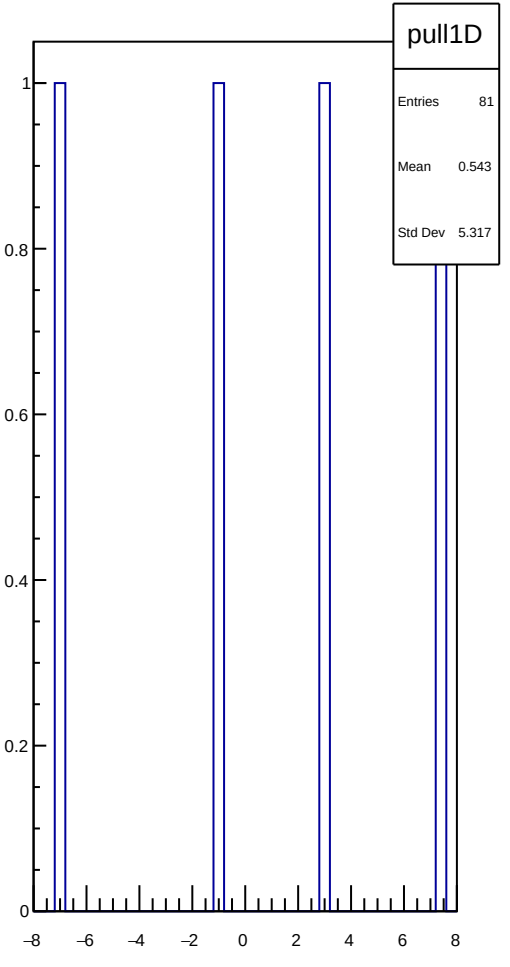

yield_usr_rms vs run
χ² / ndf 8.251e+04 / 80
p0 0.07722 ± 6.353e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

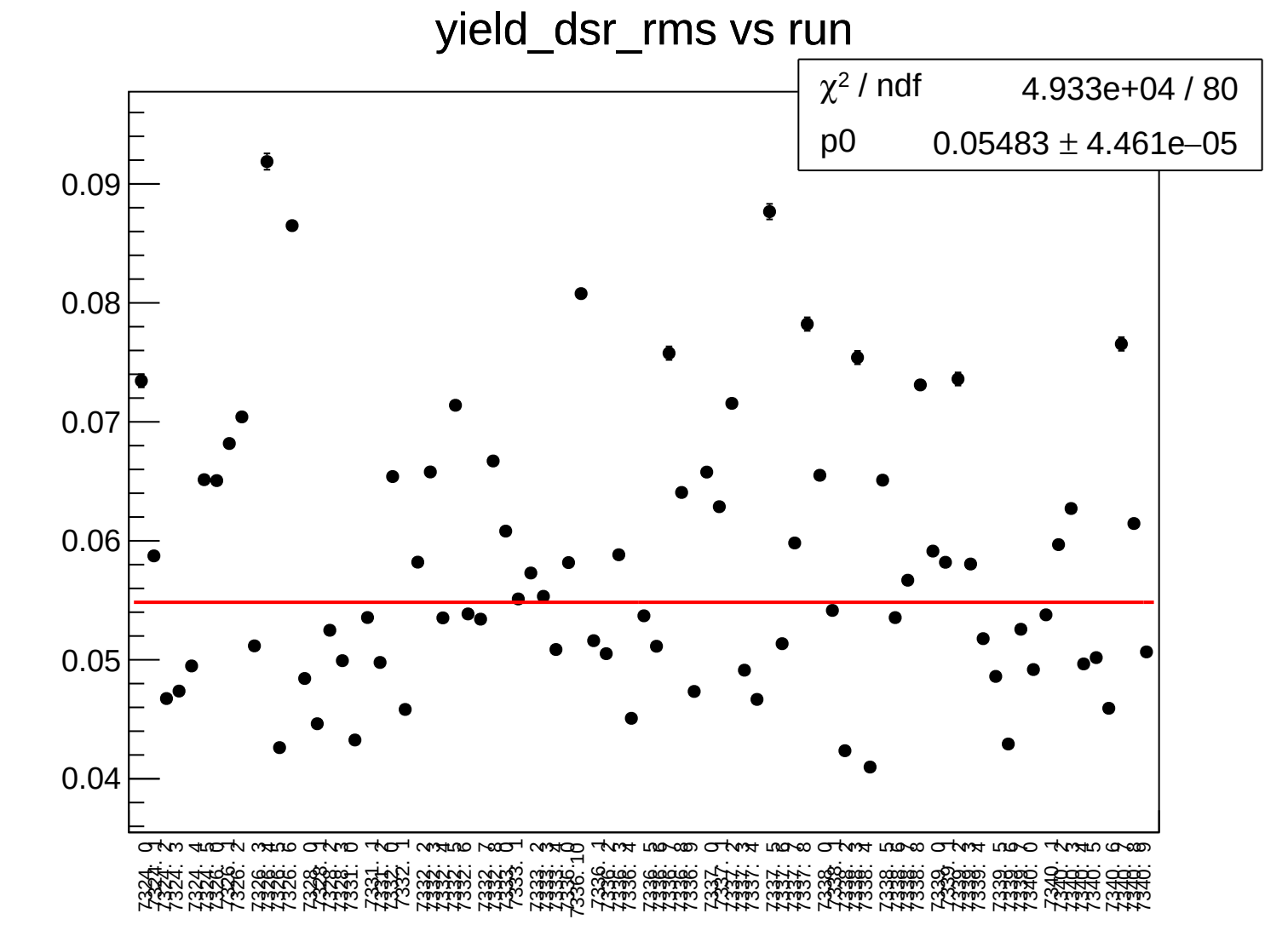

yield_dsl_mean vs run
χ² / ndf 1.573e+06 / 80
p0 85 ± 4.827e−05
85.15
85.1
85.05
85
84.95
84.9
pull
Entries 81
Mean 867.2
Std Dev 779.2
300
200
100
0
−100
−200

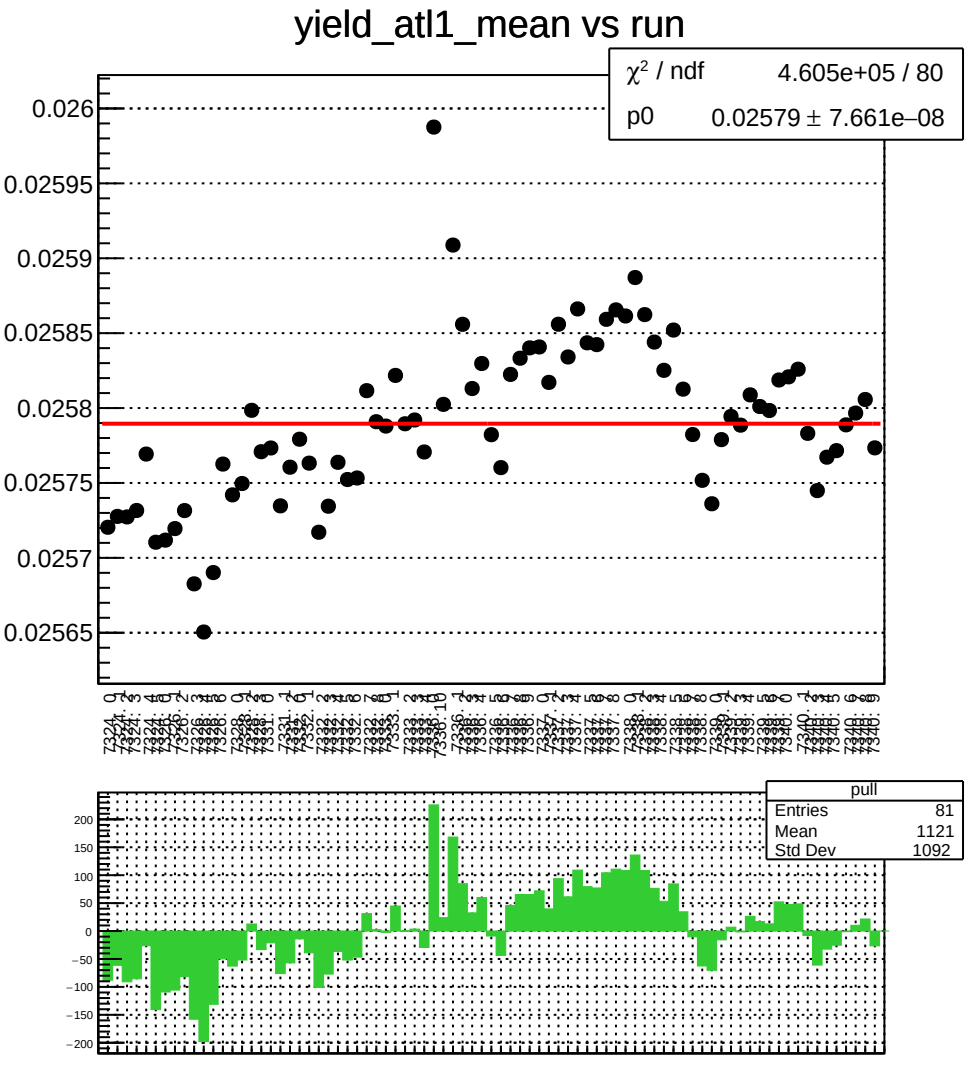

pull1D
Entries 81
Mean −2.012
Std Dev 5.29
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

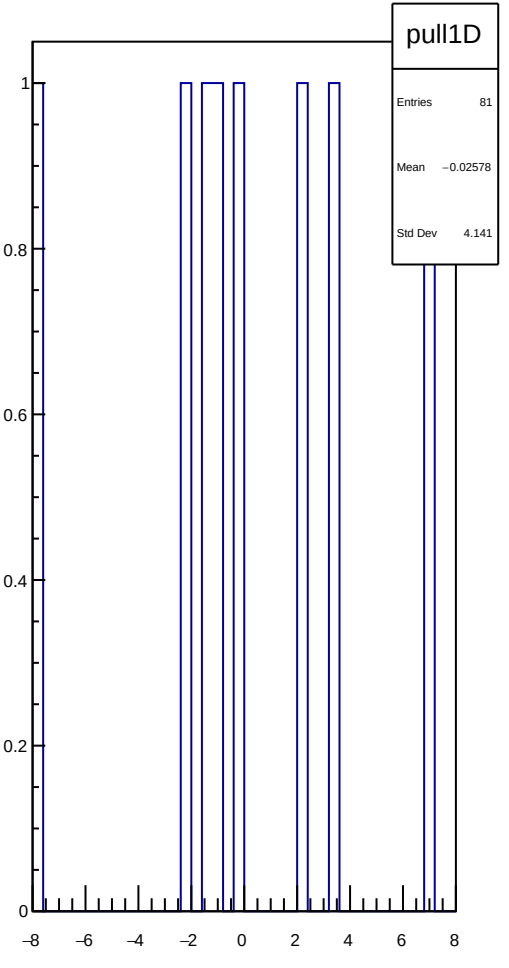

yield_dsl_rms vs run
χ² / ndf 2.495e+04 / 80
p0 0.04229 ± 3.413e−05
0.07
0.065
0.06
0.055
0.05
0.045
0.04
0.035

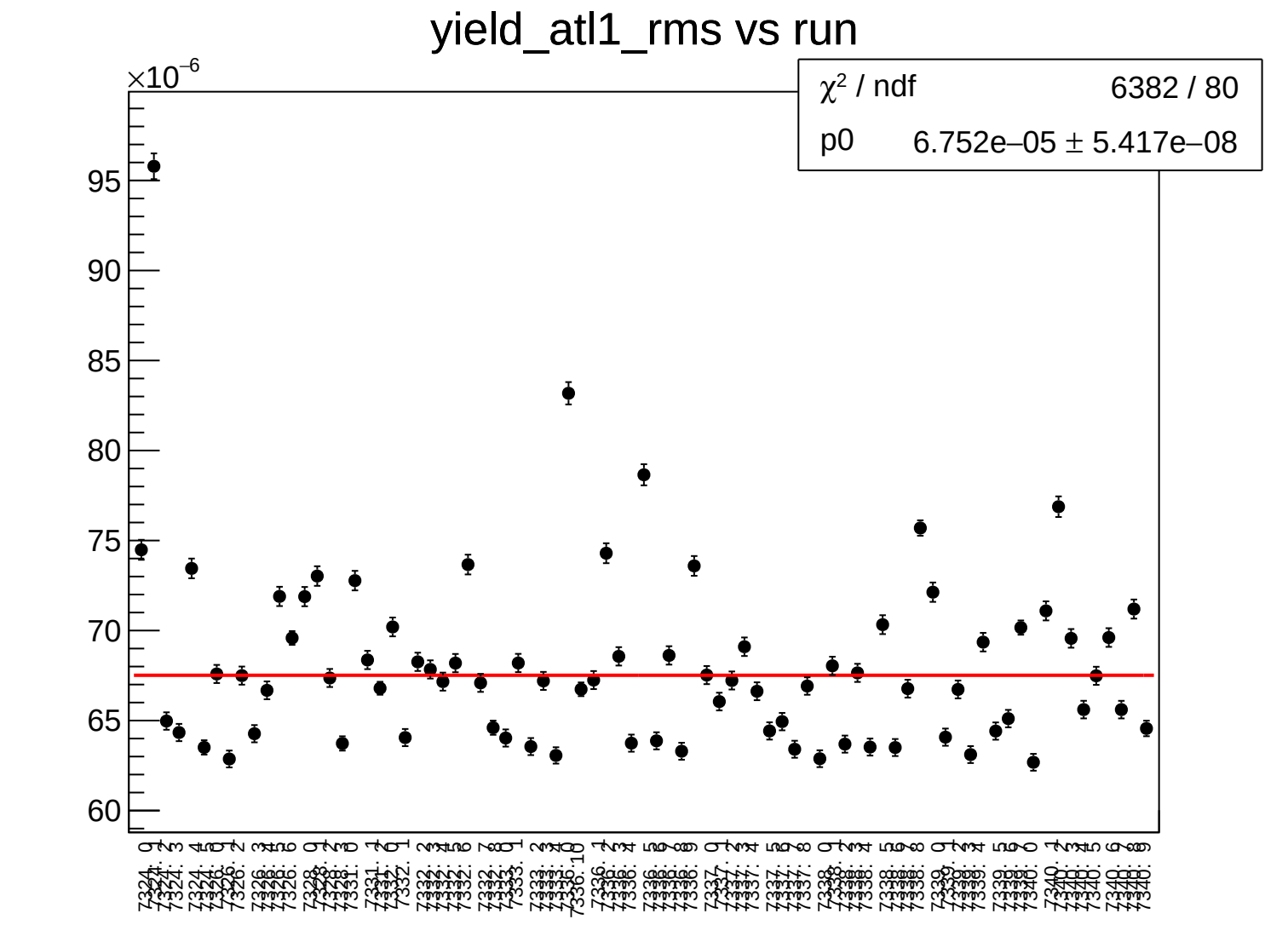

yield_dsr_mean vs run
χ² / ndf 1.2e+06 / 80
p0 −69.65 ± 6.309e−05
−69.5
−69.55
−69.6
−69.65
−69.7
−69.75
−69.8
pull
Entries 81
Mean 196.3
Std Dev 146.3
200
100
0
−100
−200
−300

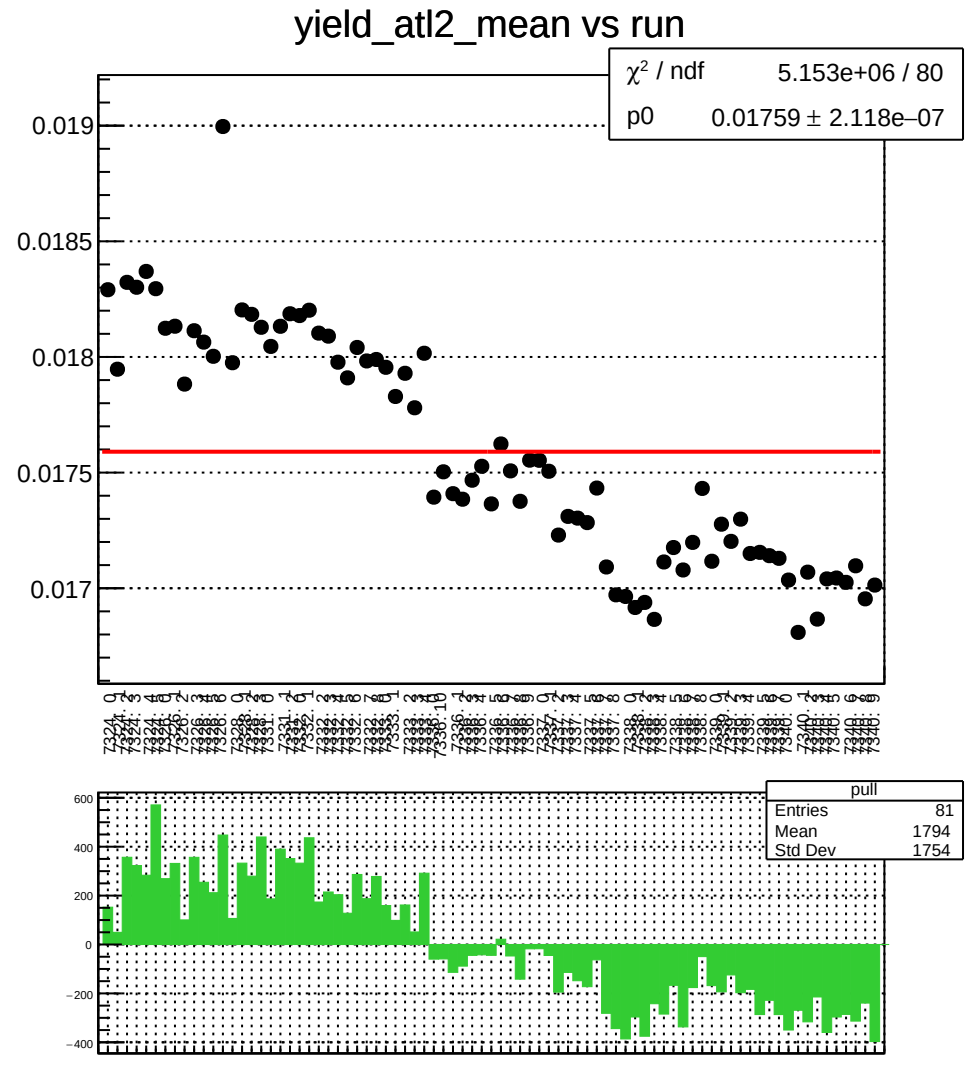

pull1D
Entries 81
Mean 0.543
Std Dev 5.317
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

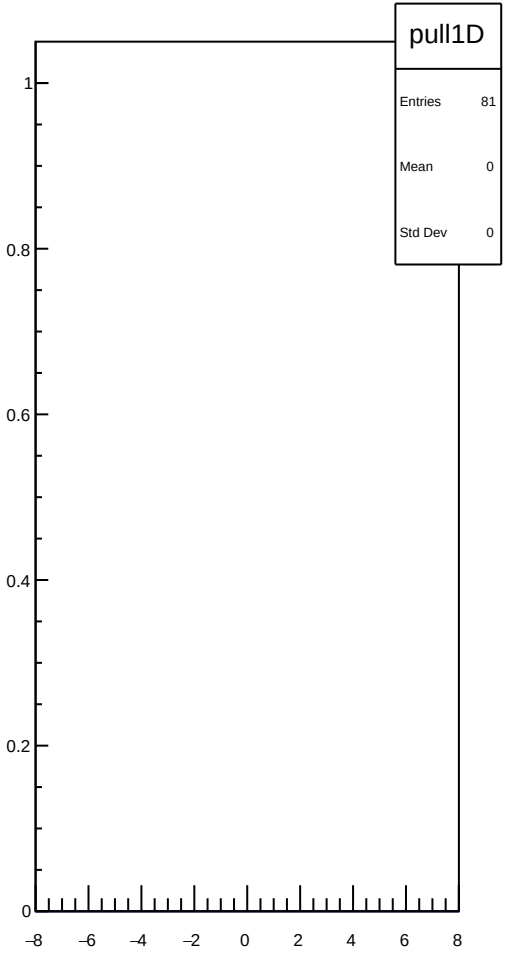

yield_dsr_rms vs run
χ² / ndf 4.933e+04 / 80
p0 0.05483 ± 4.461e−05
0.09
0.08
0.07
0.06
0.05
0.04

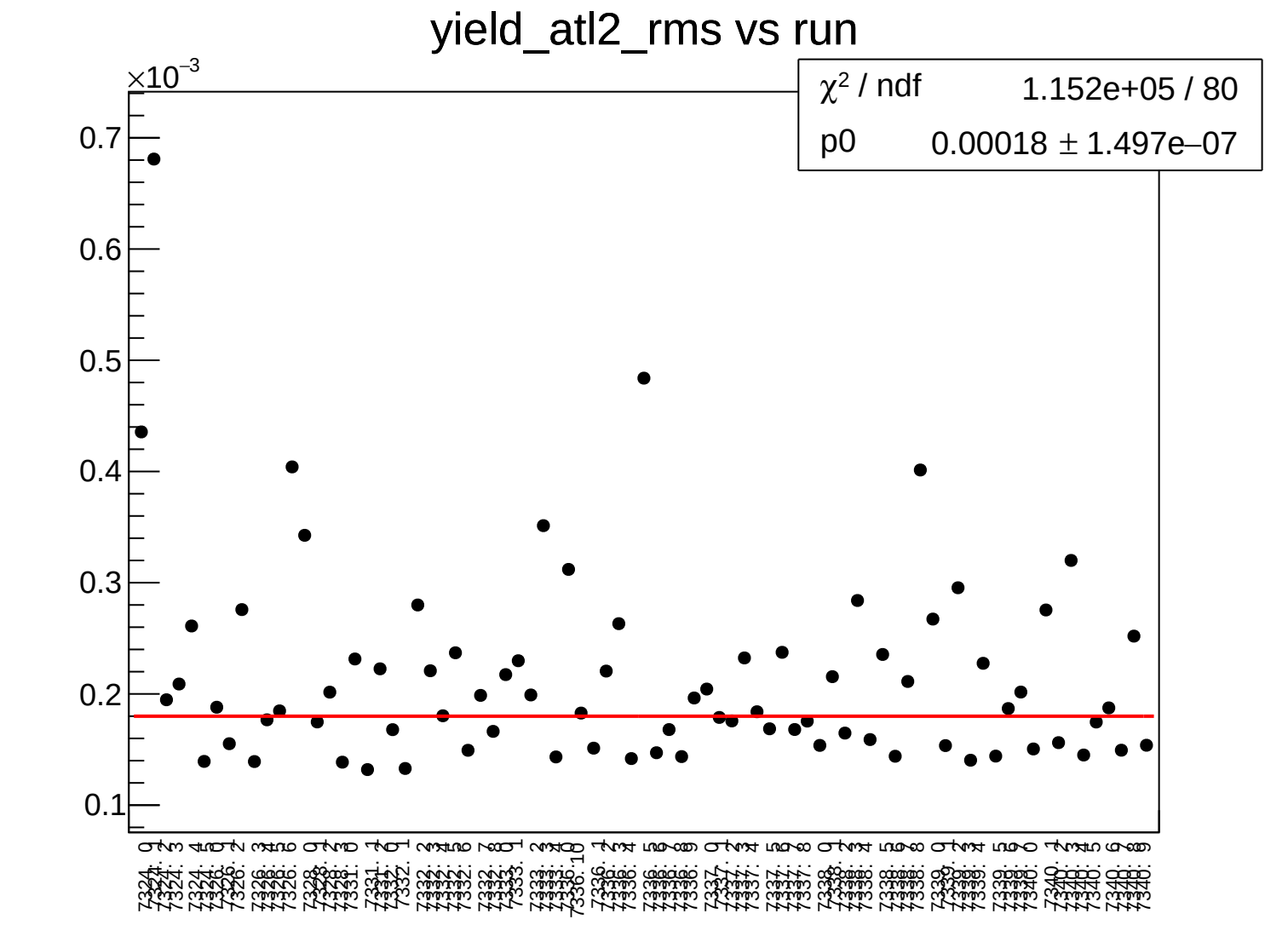

yield_atl1_mean vs run
χ² / ndf 4.605e+05 / 80
p0 0.02579 ± 7.661e−08
0.026
0.02595
0.0259
0.02585
0.0258
0.02575
0.0257
0.02565
pull
Entries 81
Mean 1121
Std Dev 1092
200
150
100
50
0
−50
−100
−150
−200

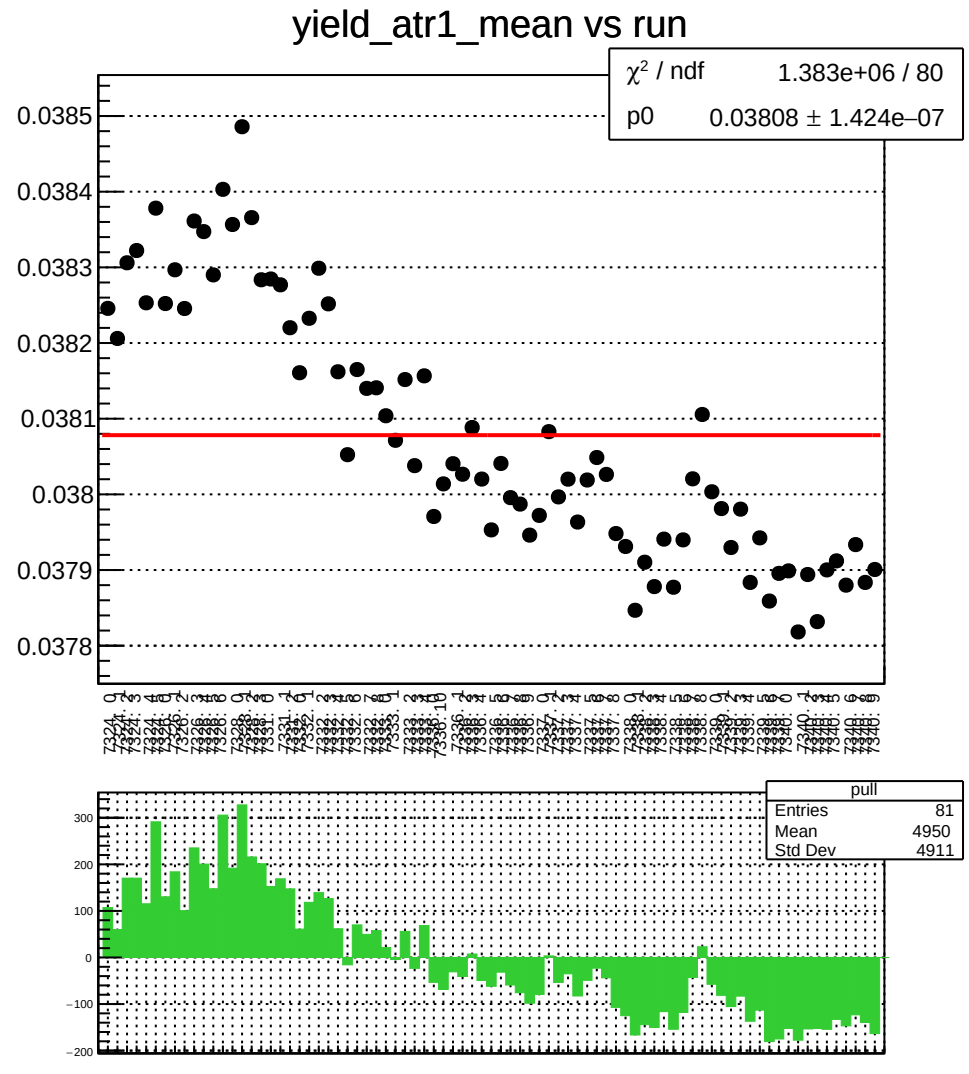

pull1D
Entries 81
Mean −0.02578
Std Dev 4.141
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

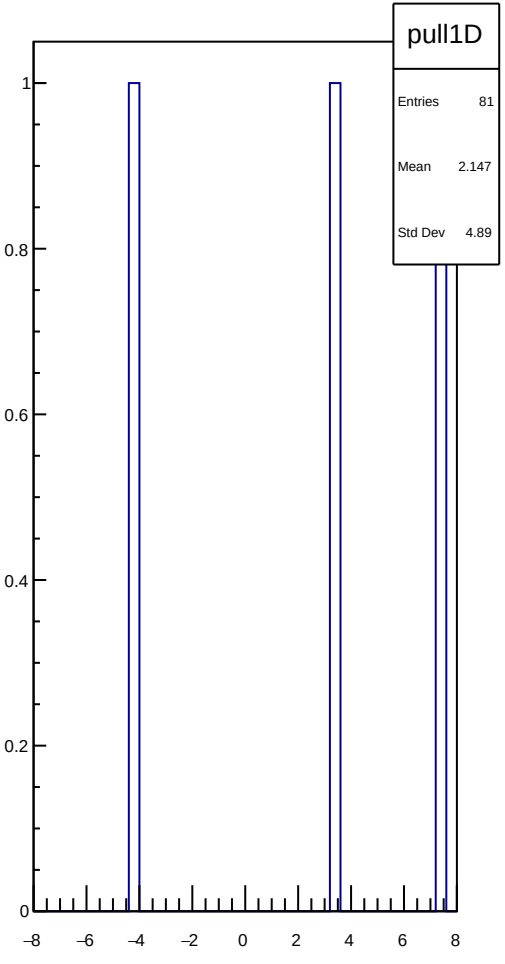

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 6382 / 80
p0 6.752e−05 ± 5.417e−08
95
90
85
80
75
70
65
60

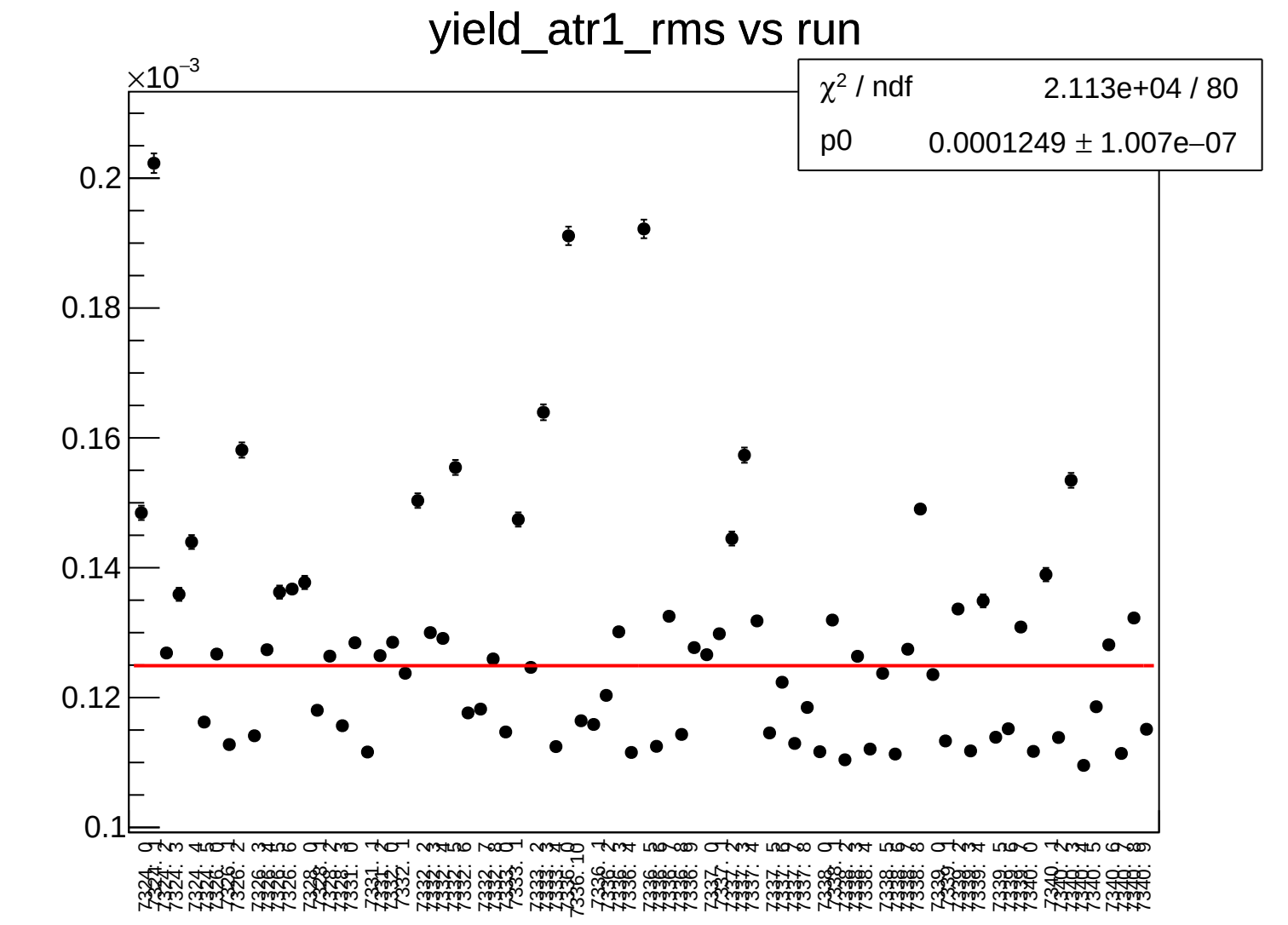

yield_atl2_mean vs run
χ² / ndf 5.153e+06 / 80
p0 0.01759 ± 2.118e−07
0.019
0.0185
0.018
0.0175
0.017
pull
Entries 81
Mean 1794
Std Dev 1754
600
400
200
0
−200
−400

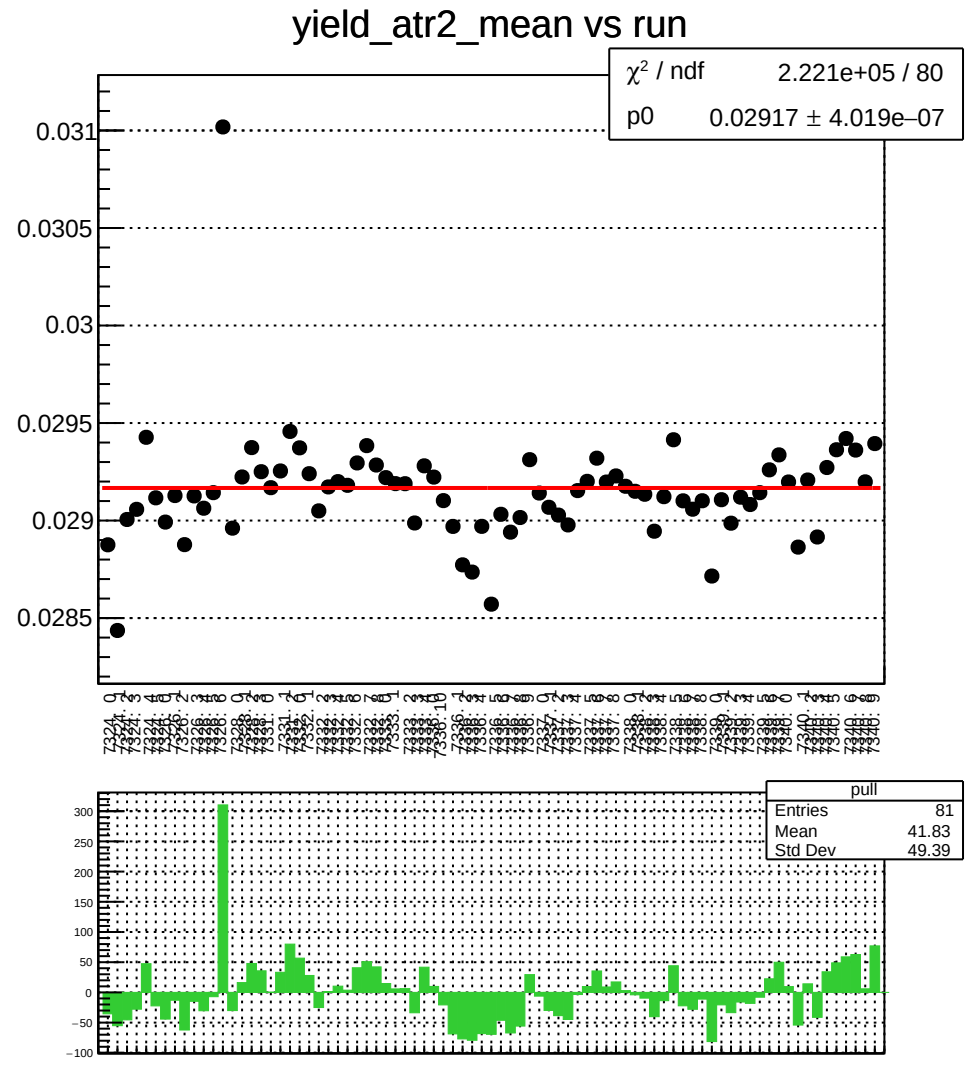

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

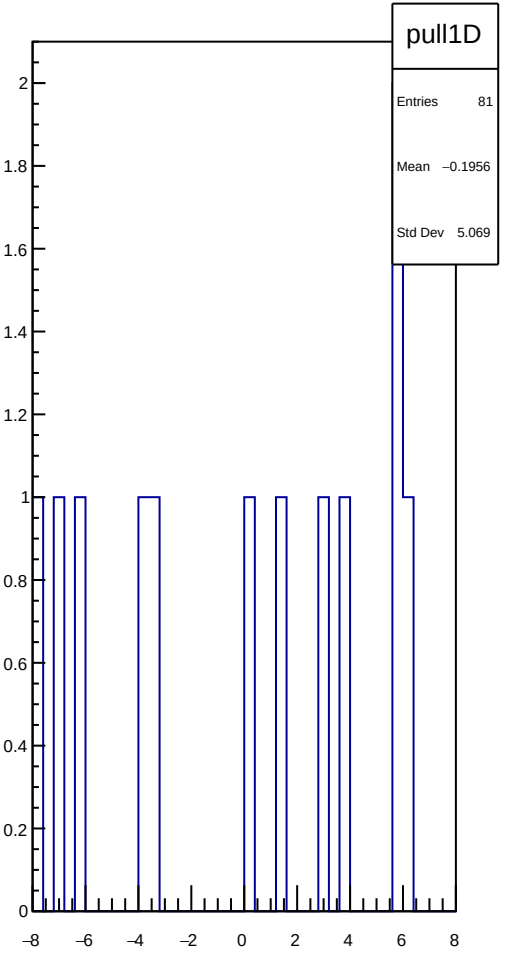

yield_atl2_rms vs run
×10⁻³
χ² / ndf 1.152e+05 / 80
p0 0.00018 ± 1.497e–07
0.7
0.6
0.5
0.4
0.3
0.2
0.1

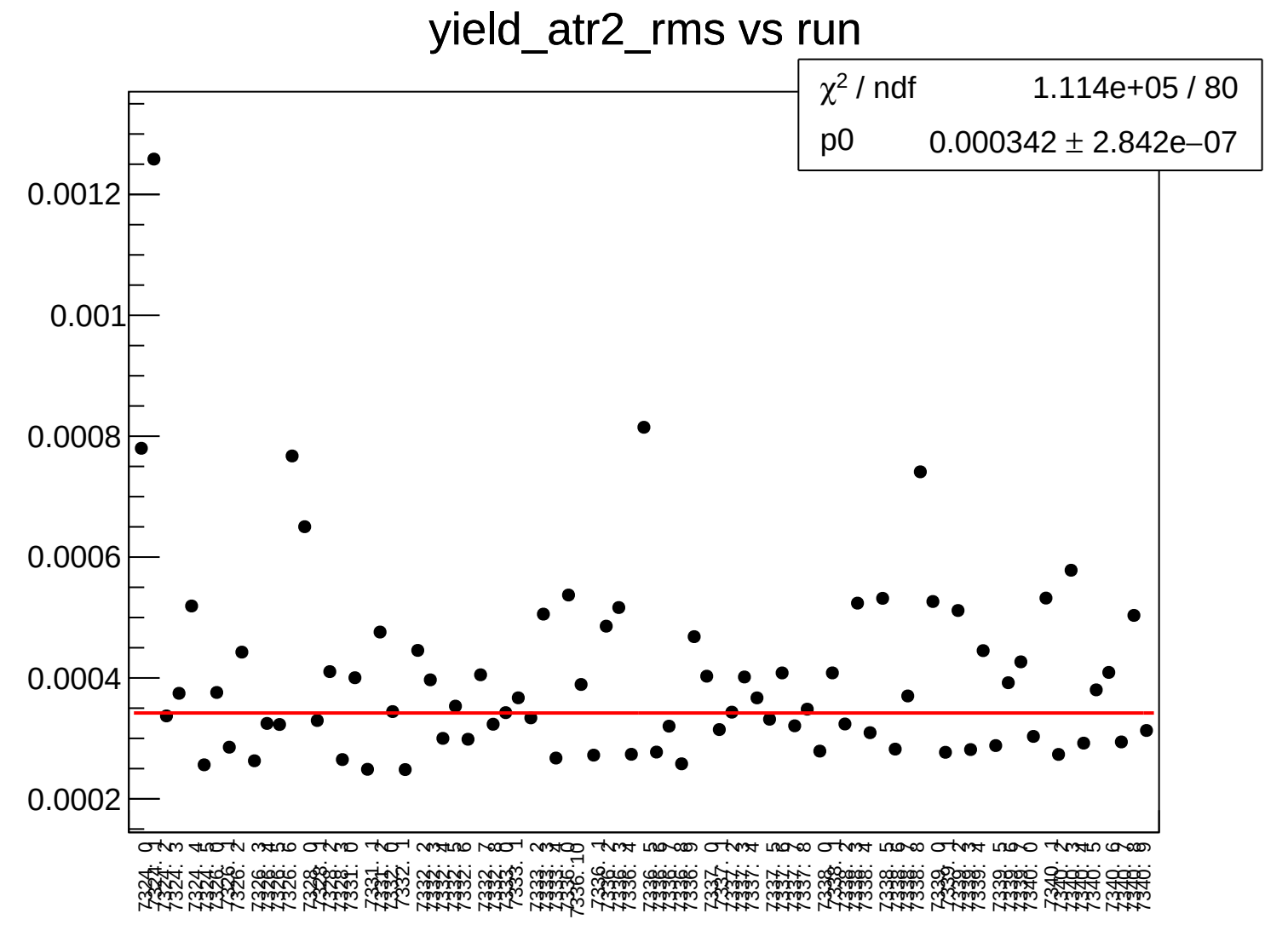

yield_atr1_mean vs run
χ² / ndf 1.383e+06 / 80
p0 0.03808 ± 1.424e−07
0.0385
0.0384
0.0383
0.0382
0.0381
0.038
0.0379
0.0378
pull
Entries 81
Mean 4950
Std Dev 4911
300
200
100
0
−100
−200

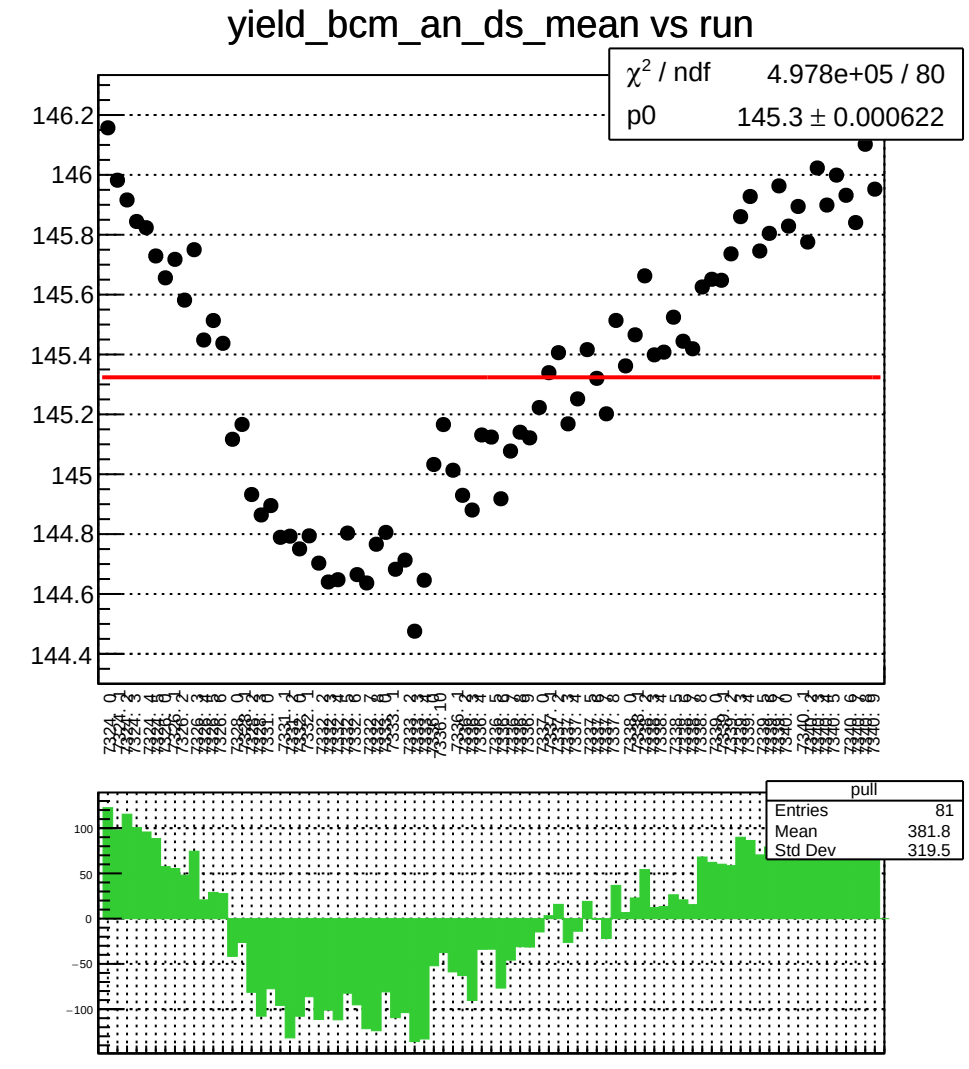

pull1D
Entries 81
Mean 2.147
Std Dev 4.89
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

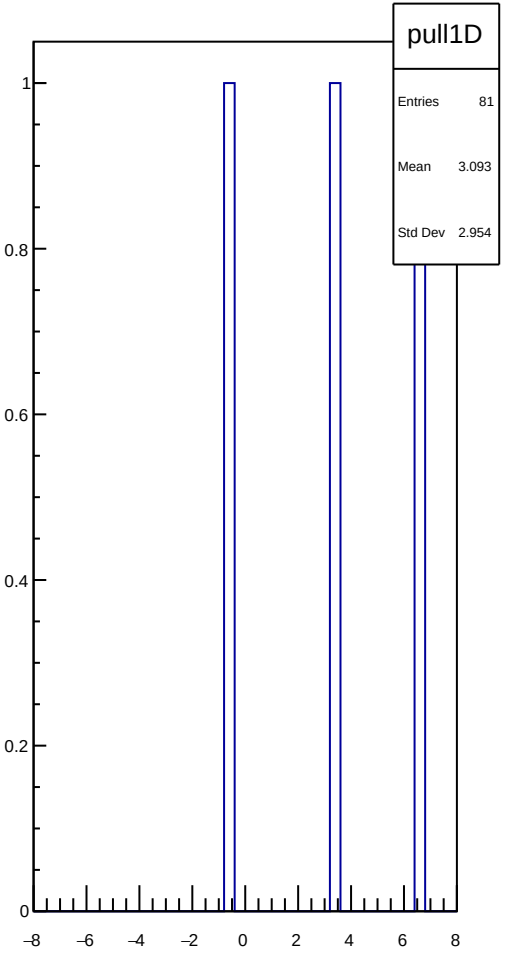

yield_atr1_rms vs run
×10⁻³
χ² / ndf 2.113e+04 / 80
p0 0.0001249 ± 1.007e−07
0.2
0.18
0.16
0.14
0.12
0.1

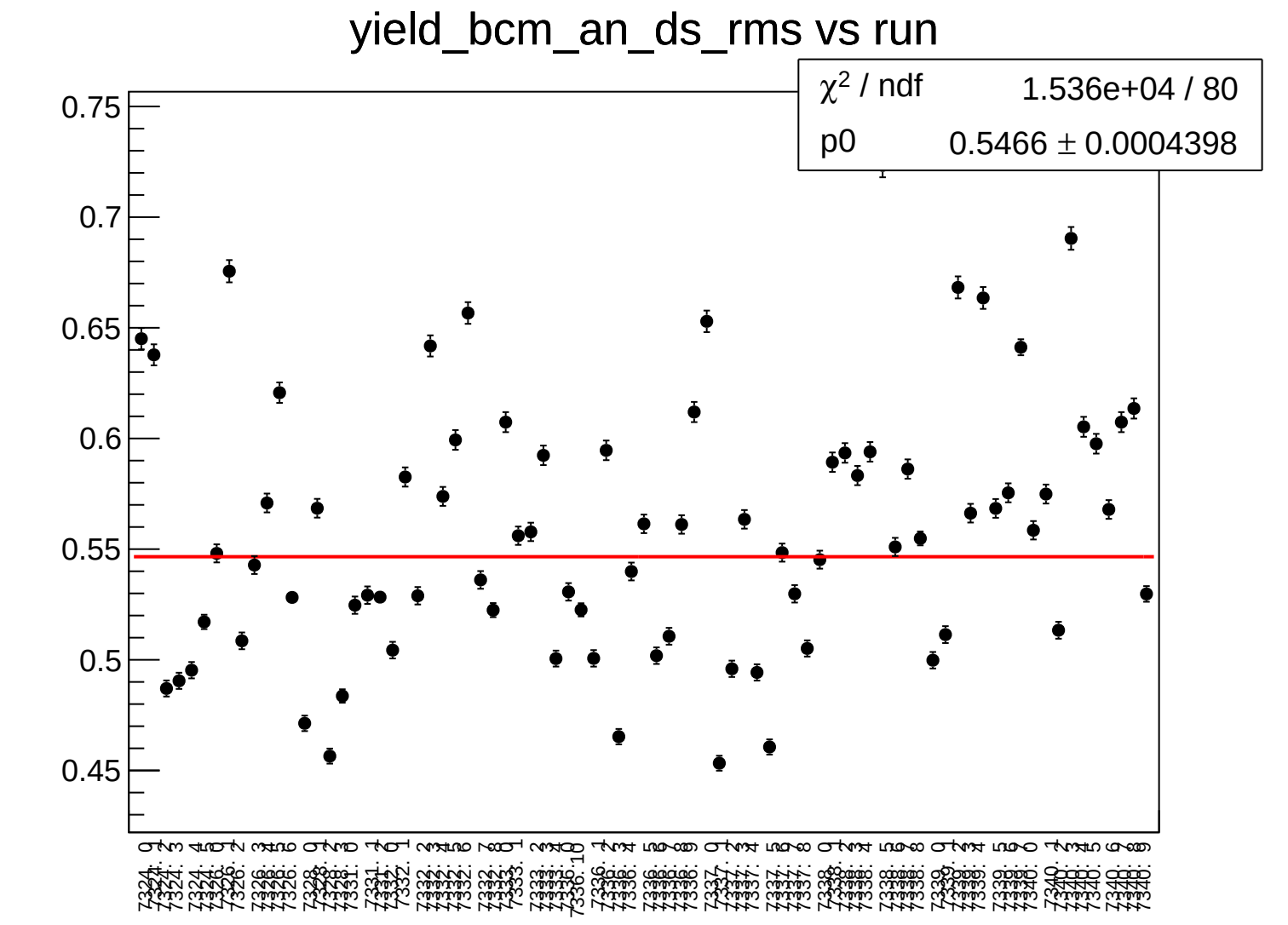

yield_atr2_mean vs run
χ² / ndf 2.221e+05 / 80
p0 0.02917 ± 4.019e−07
0.031
0.0305
0.03
0.0295
0.029
0.0285
pull
Entries 81
Mean 41.83
Std Dev 49.39
300
250
200
150
100
50
0
−50
−100

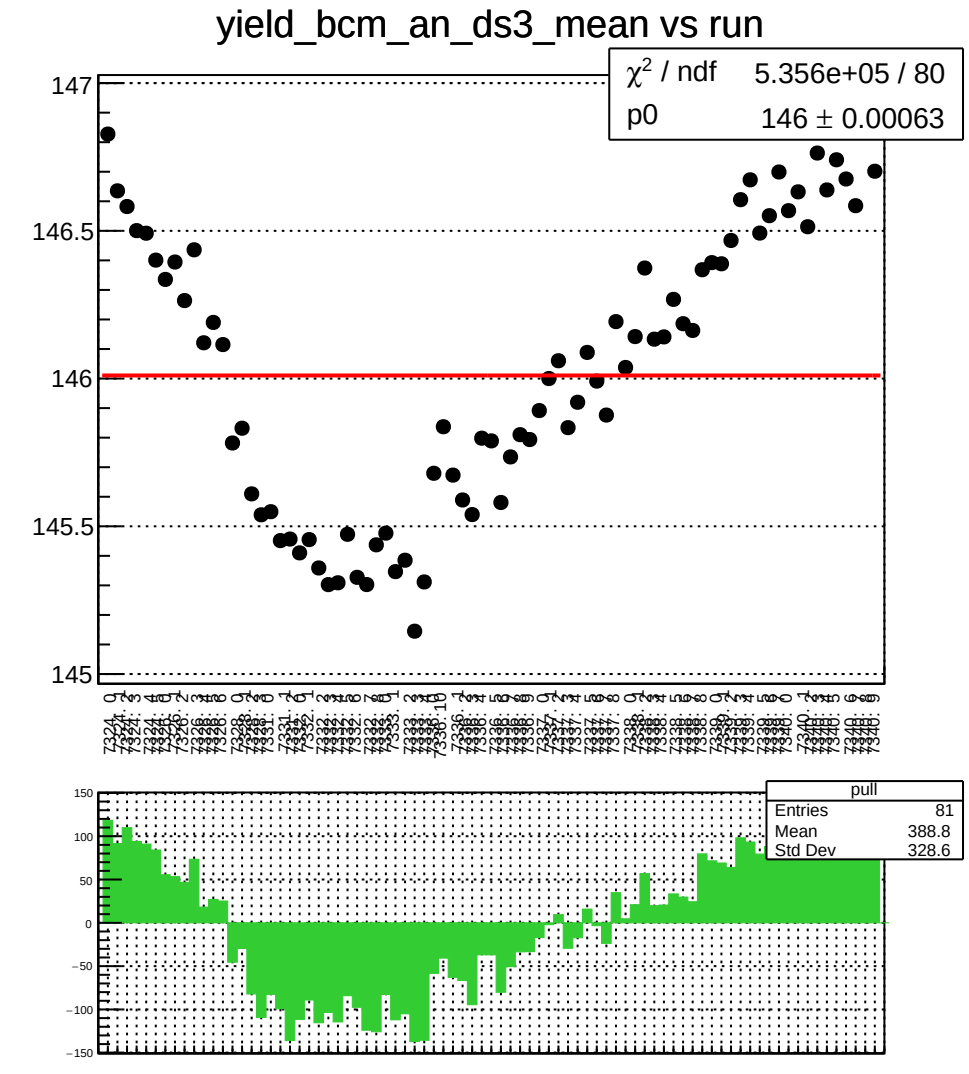

pull1D
Entries 81
Mean −0.1956
Std Dev 5.069
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

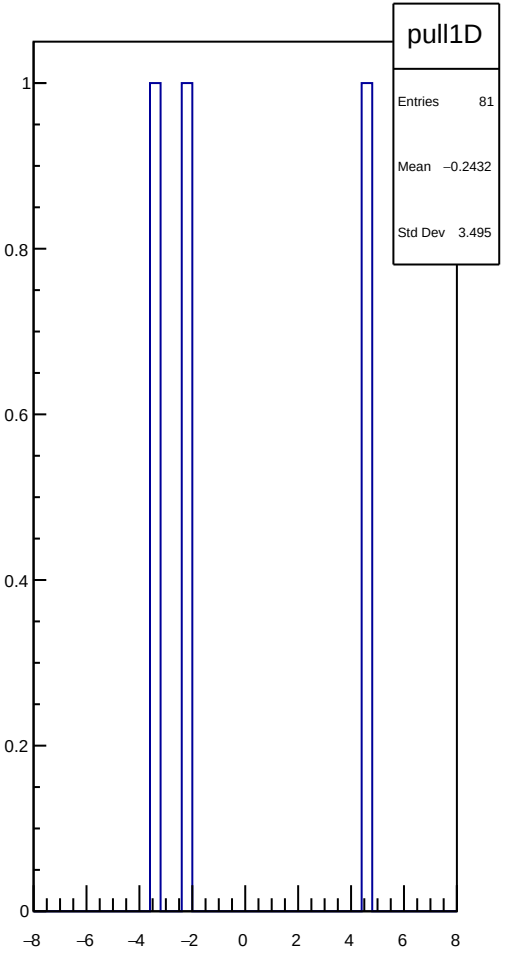

yield_atr2_rms vs run
χ² / ndf 1.114e+05 / 80
p0 0.000342 ± 2.842e−07
0.0012
0.001
0.0008
0.0006
0.0004
0.0002

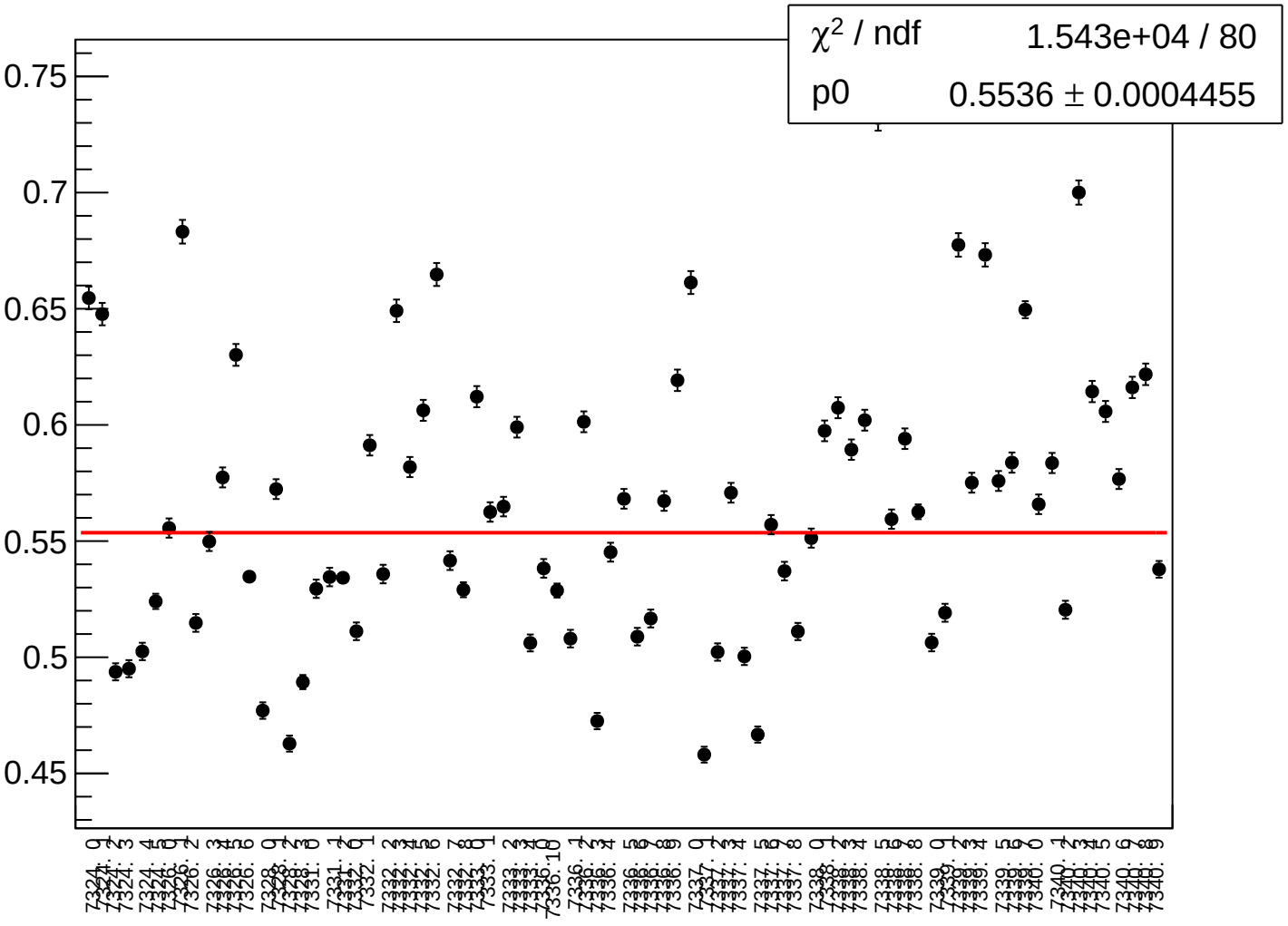

yield_bcm_an_ds_mean vs run
χ² / ndf 4.978e+05 / 80
p0 145.3 ± 0.000622
146.2
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 81
Mean 381.8
Std Dev 319.5
100
50
0
−50
−100

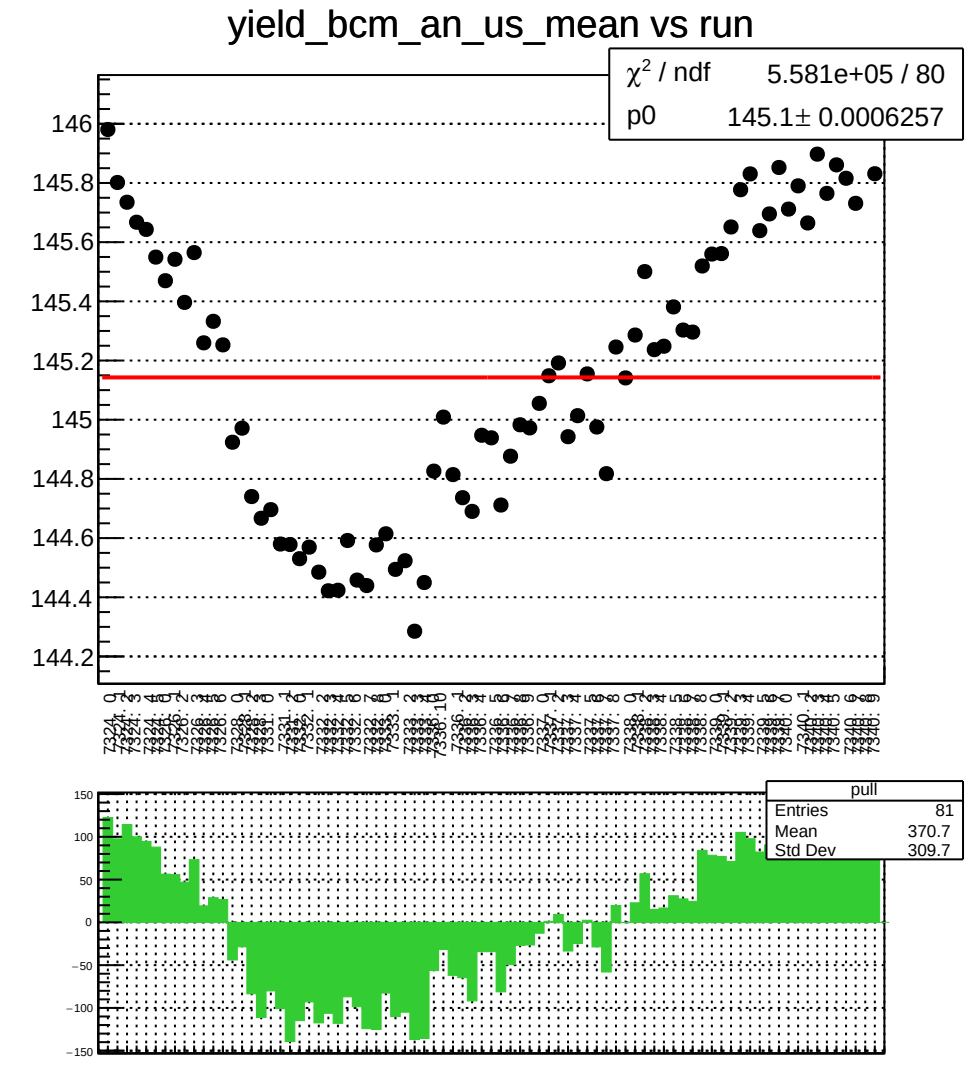

pull1D
Entries 81
Mean 3.093
Std Dev 2.954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

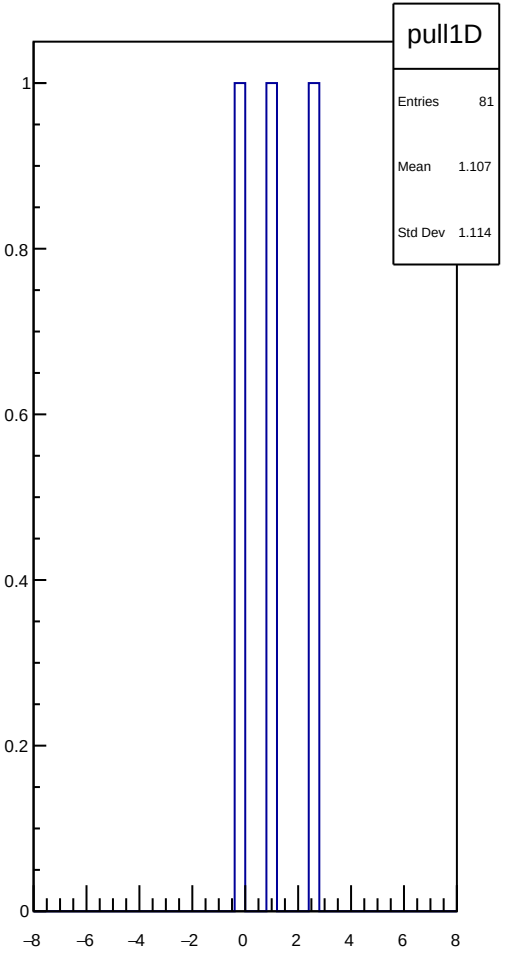

yield_bcm_an_ds_rms vs run
χ² / ndf 1.536e+04 / 80
p0 0.5466 ± 0.0004398
0.75
0.7
0.65
0.6
0.55
0.5
0.45

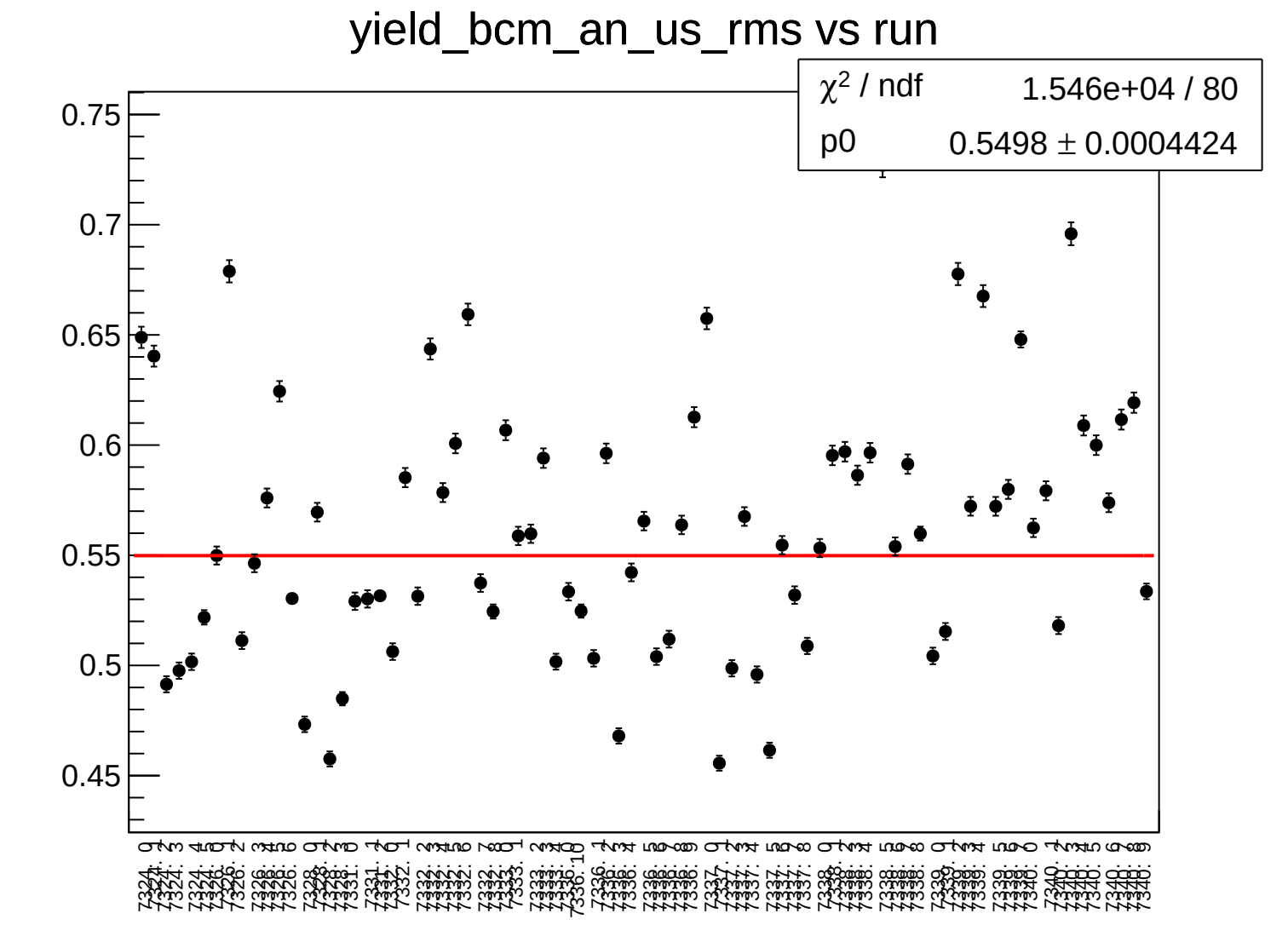

yield_bcm_an_ds3_mean vs run
χ² / ndf 5.356e+05 / 80
p0 146 ± 0.00063
147
146.5
146
145.5
145
pull
Entries 81
Mean 388.8
Std Dev 328.6
150
100
50
0
−50
−100
−150

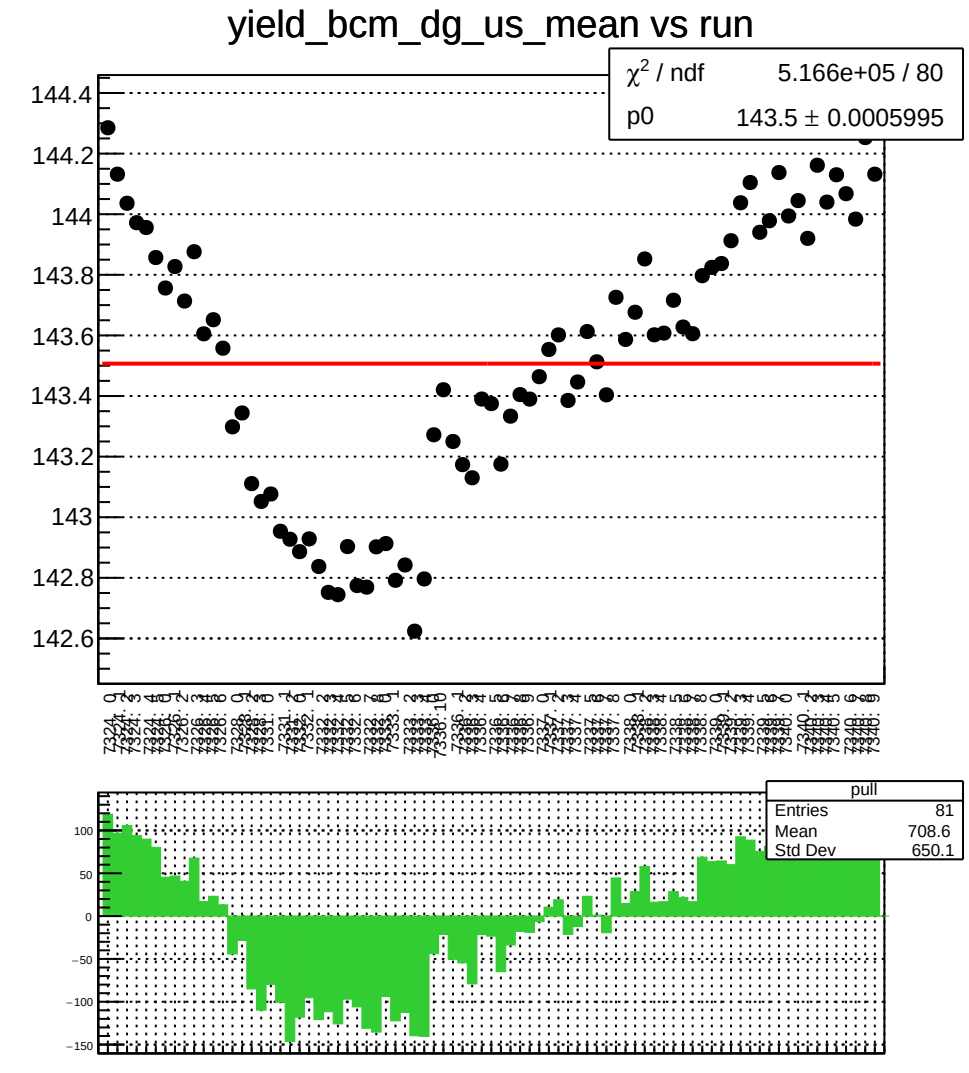

pull1D
Entries 81
Mean −0.2432
Std Dev 3.495
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

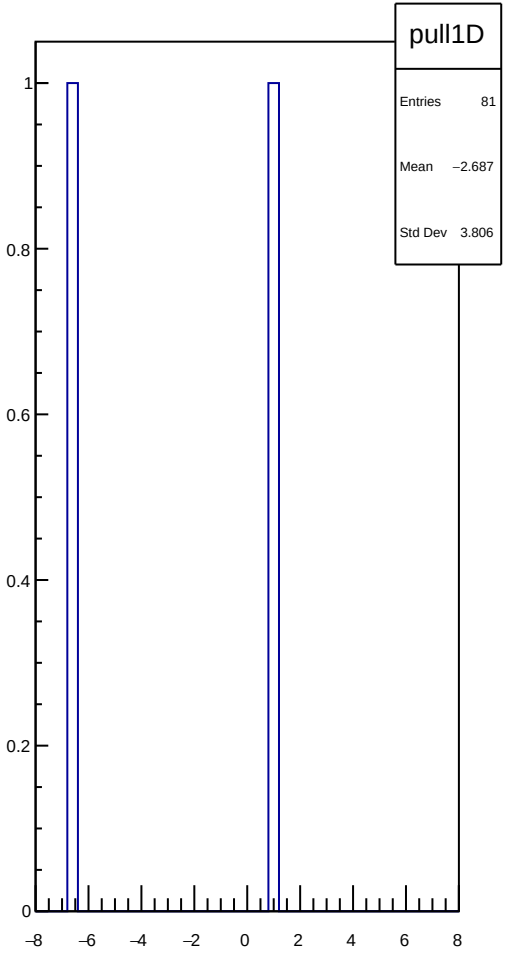

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.543e+04 / 80
p0 0.5536 ± 0.0004455
0.75
0.7
0.65
0.6
0.55
0.5
0.45

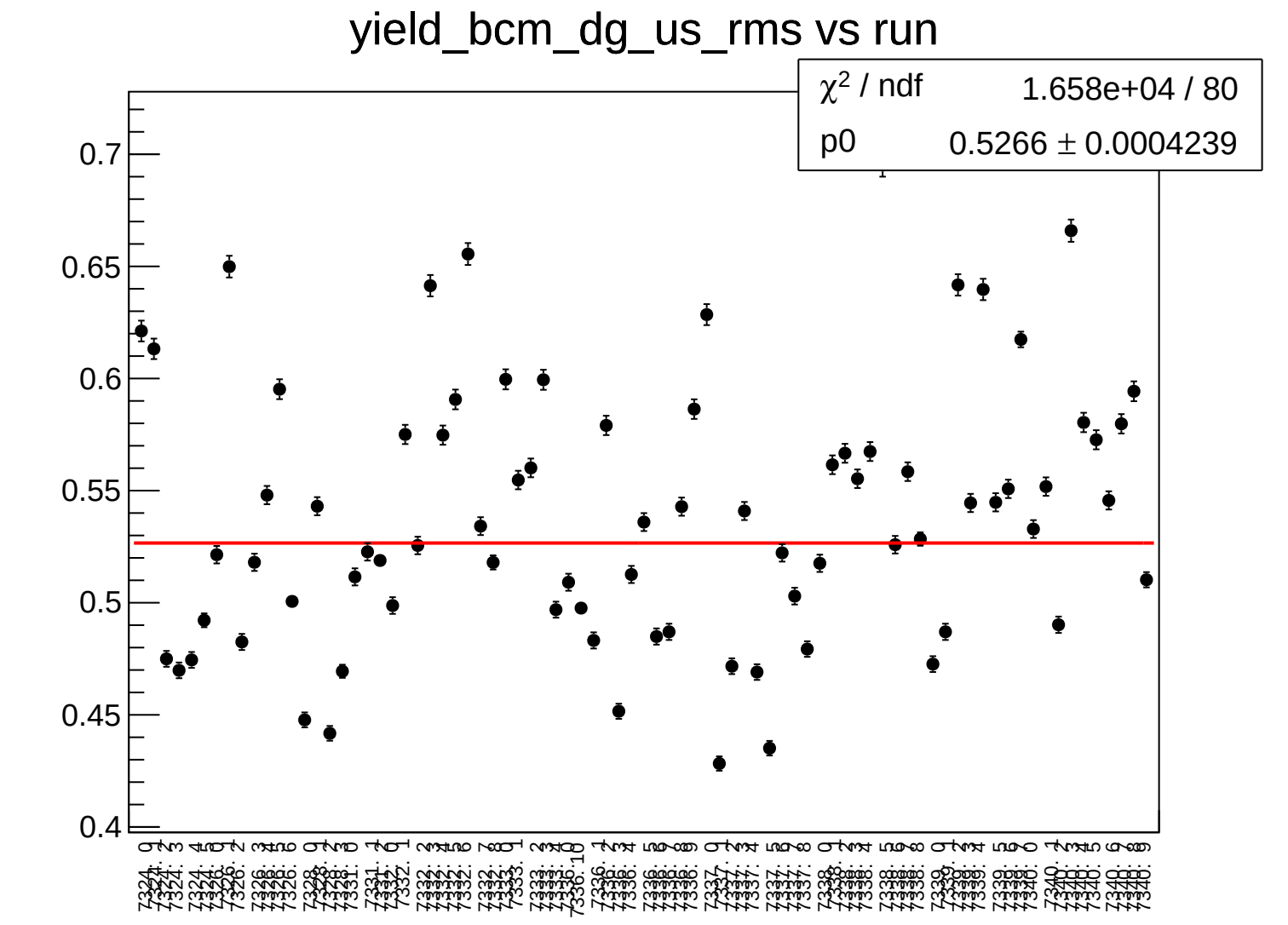

yield_bcm_an_us_mean vs run
χ² / ndf 5.581e+05 / 80
p0 145.1± 0.0006257
146
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 81
Mean 370.7
Std Dev 309.7
150
100
50
0
−50
−100
−150

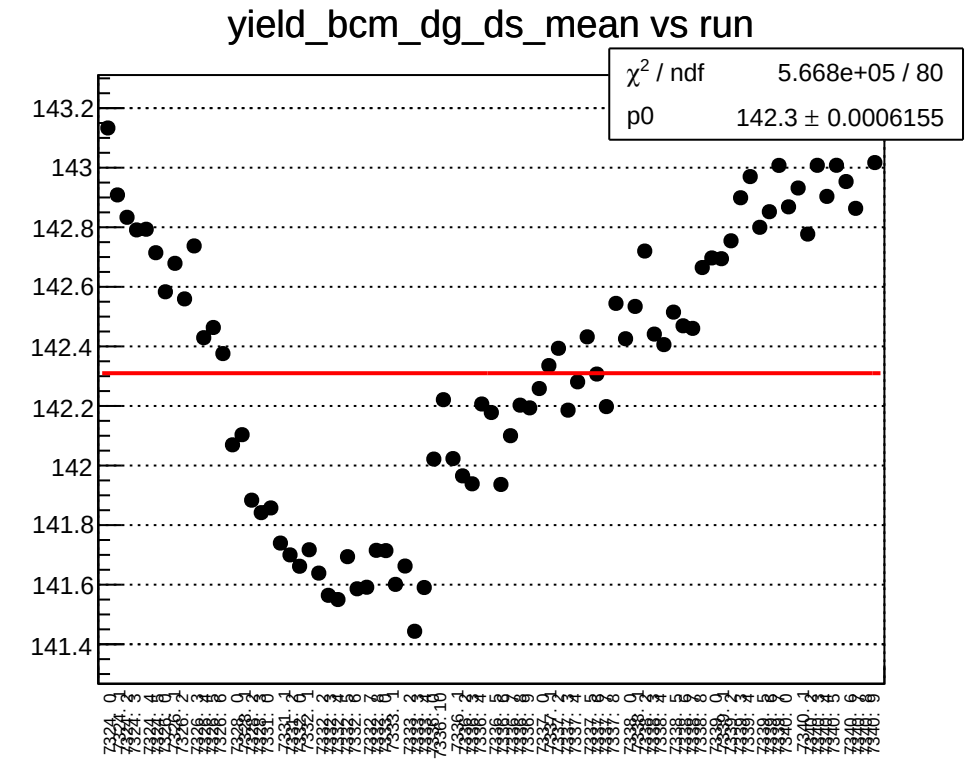

pull1D
Entries 81
Mean 1.107
Std Dev 1.114
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

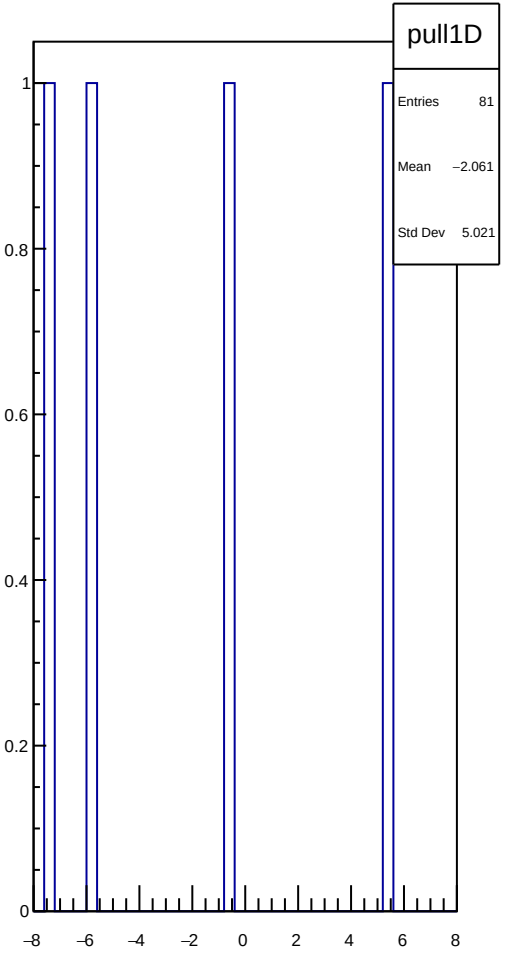

yield_bcm_an_us_rms vs run
χ² / ndf 1.546e+04 / 80
p0 0.5498 ± 0.0004424
0.75
0.7
0.65
0.6
0.55
0.5
0.45

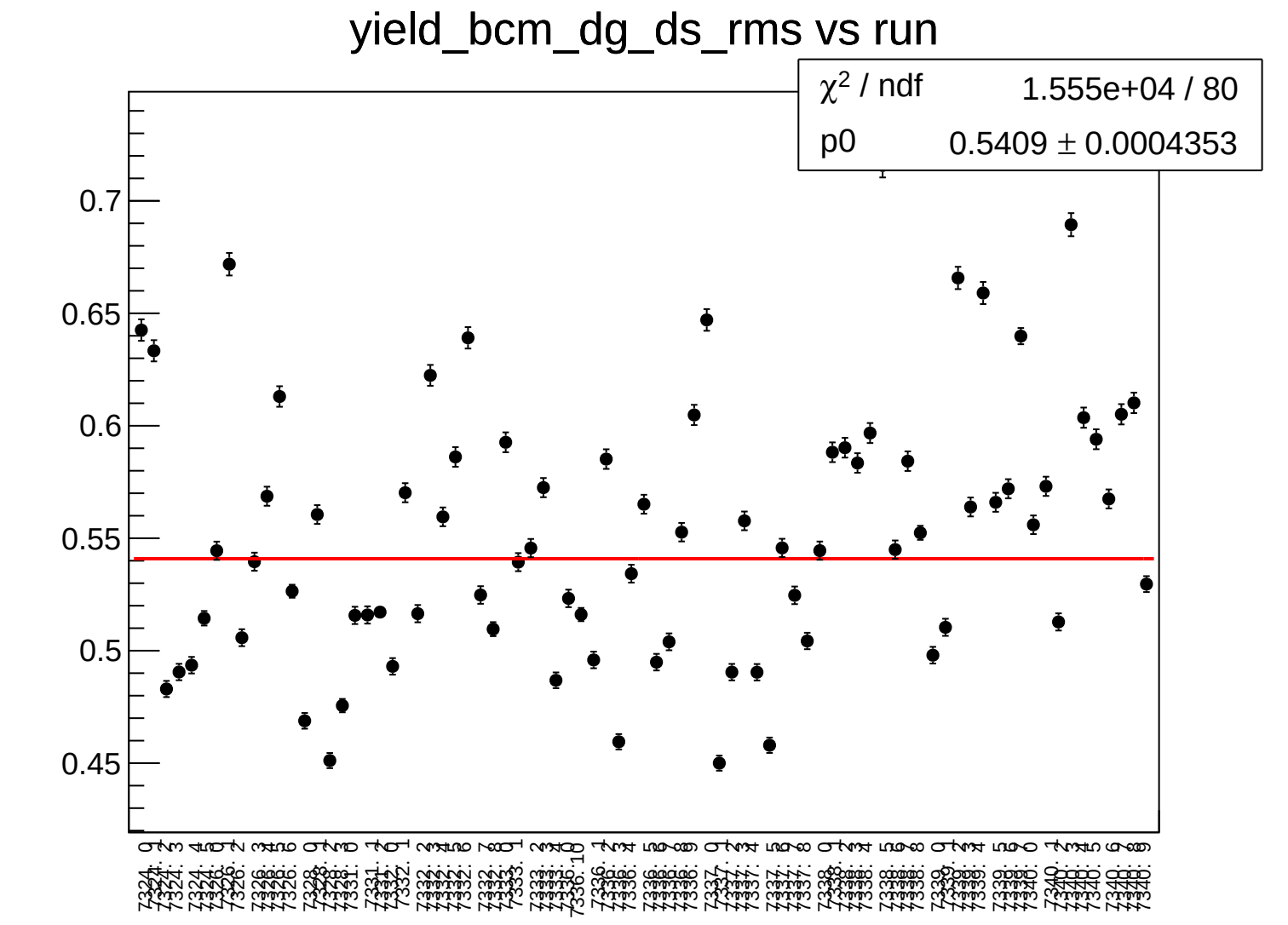

yield_bcm_dg_us_mean vs run
χ² / ndf 5.166e+05 / 80
p0 143.5 ± 0.0005995
144.4
144.2
144
143.8
143.6
143.4
143.2
143
142.8
142.6
pull
Entries 81
Mean 708.6
Std Dev 650.1
100
50
0
−50
−100
−150

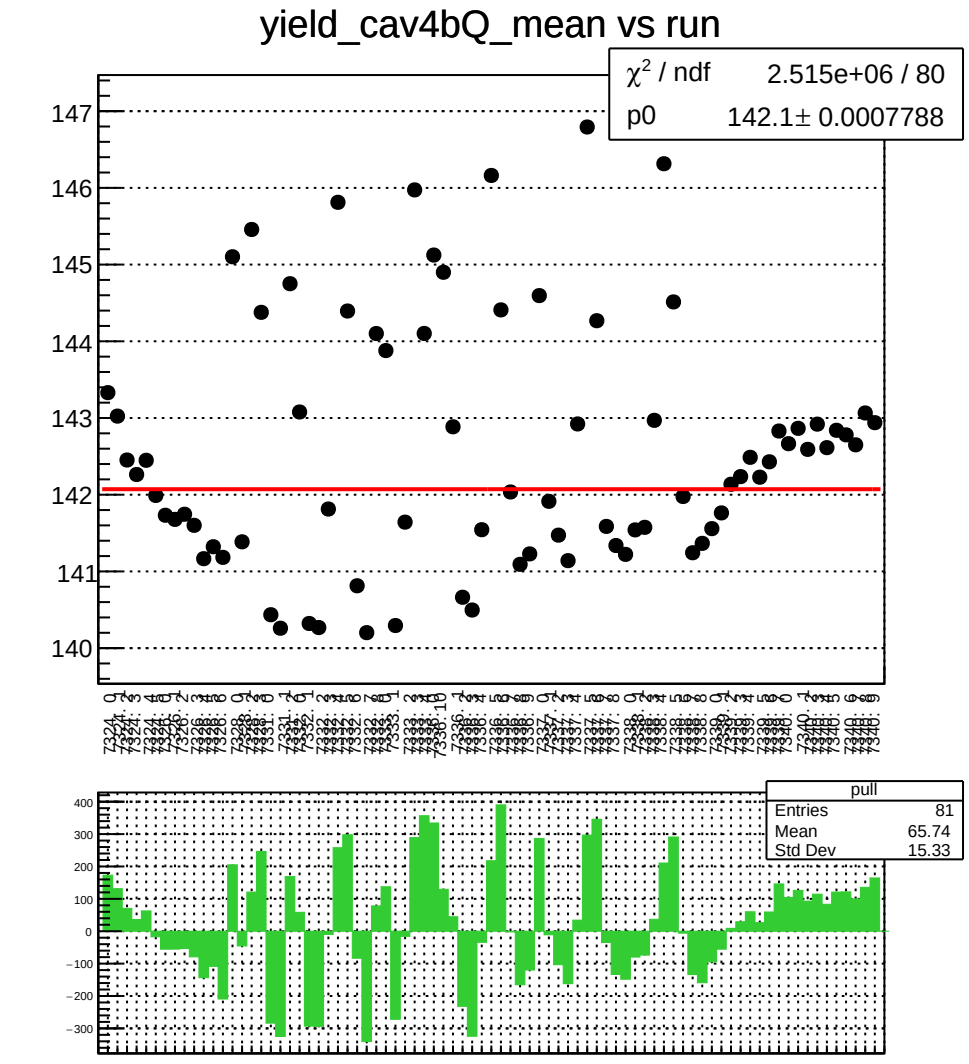

pull1D
Entries 81
Mean −2.687
Std Dev 3.806
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

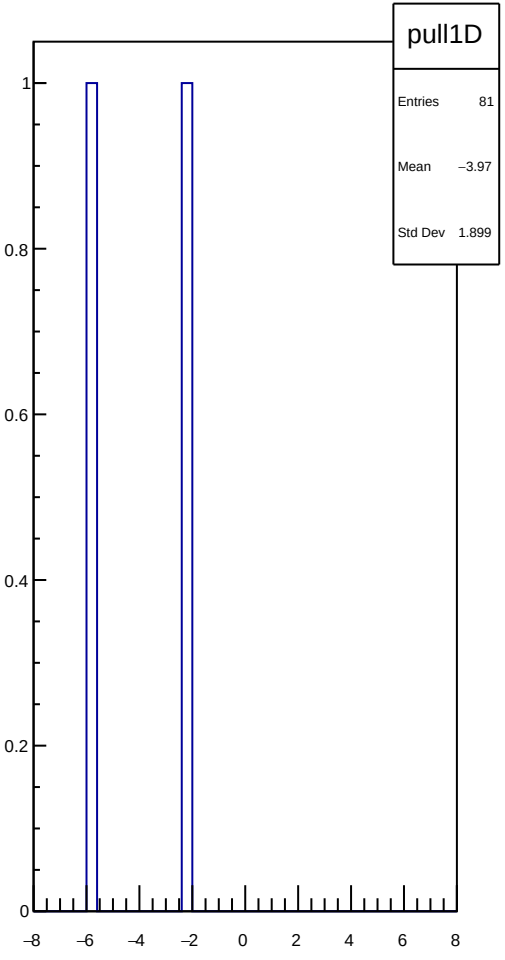

yield_bcm_dg_us_rms vs run
χ² / ndf 1.658e+04 / 80
p0 0.5266 ± 0.0004239
0.7
0.65
0.6
0.55
0.5
0.45
0.4

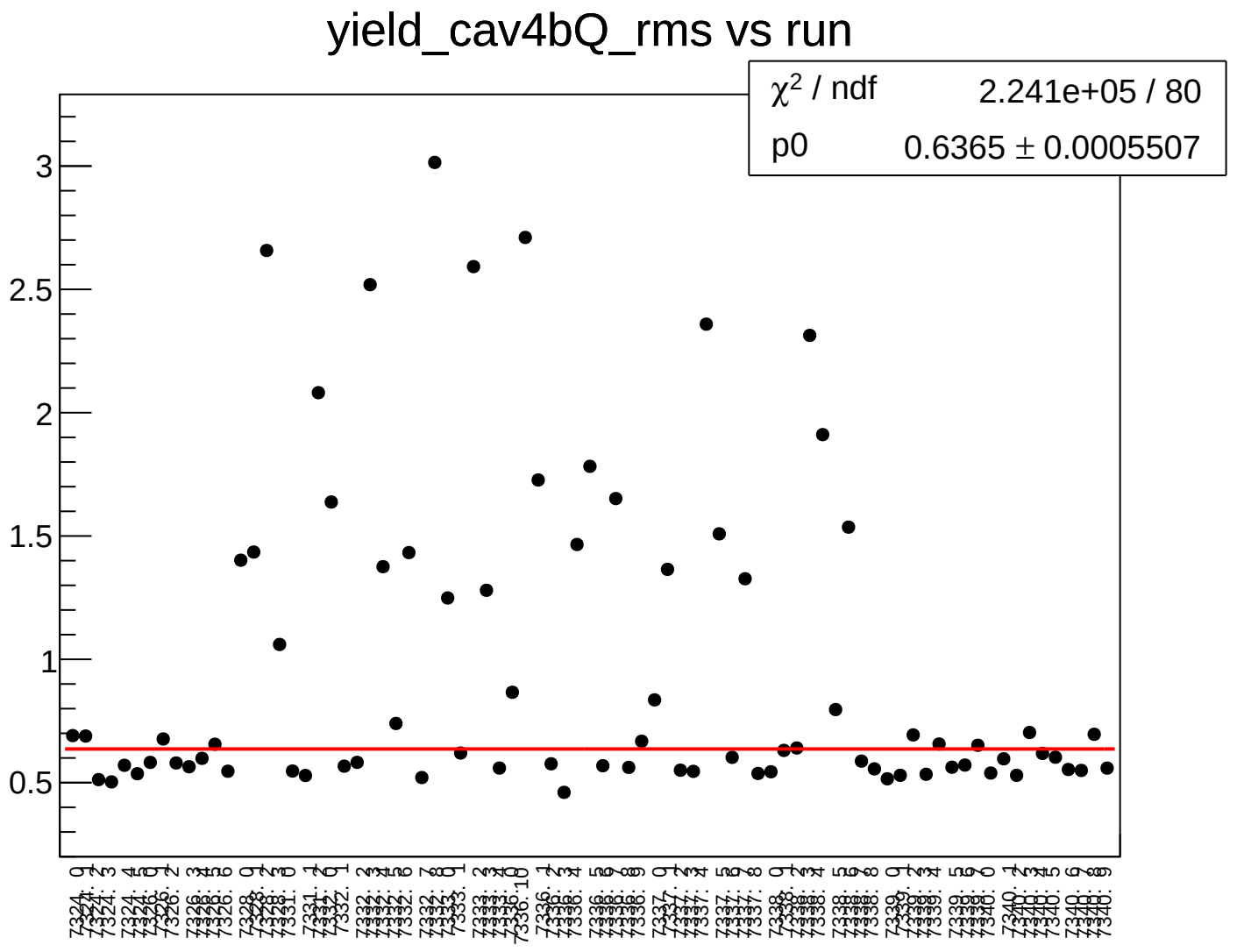

yield_bcm_dg_ds_mean vs run
χ² / ndf 5.668e+05 / 80
p0 142.3 ± 0.0006155
143.2
143
142.8
142.6
142.4
142.2
142
141.8
141.6
141.4
pull
Entries 81
Mean 347.4
Std Dev 288.9
150
100
50
0
−50
−100
−150

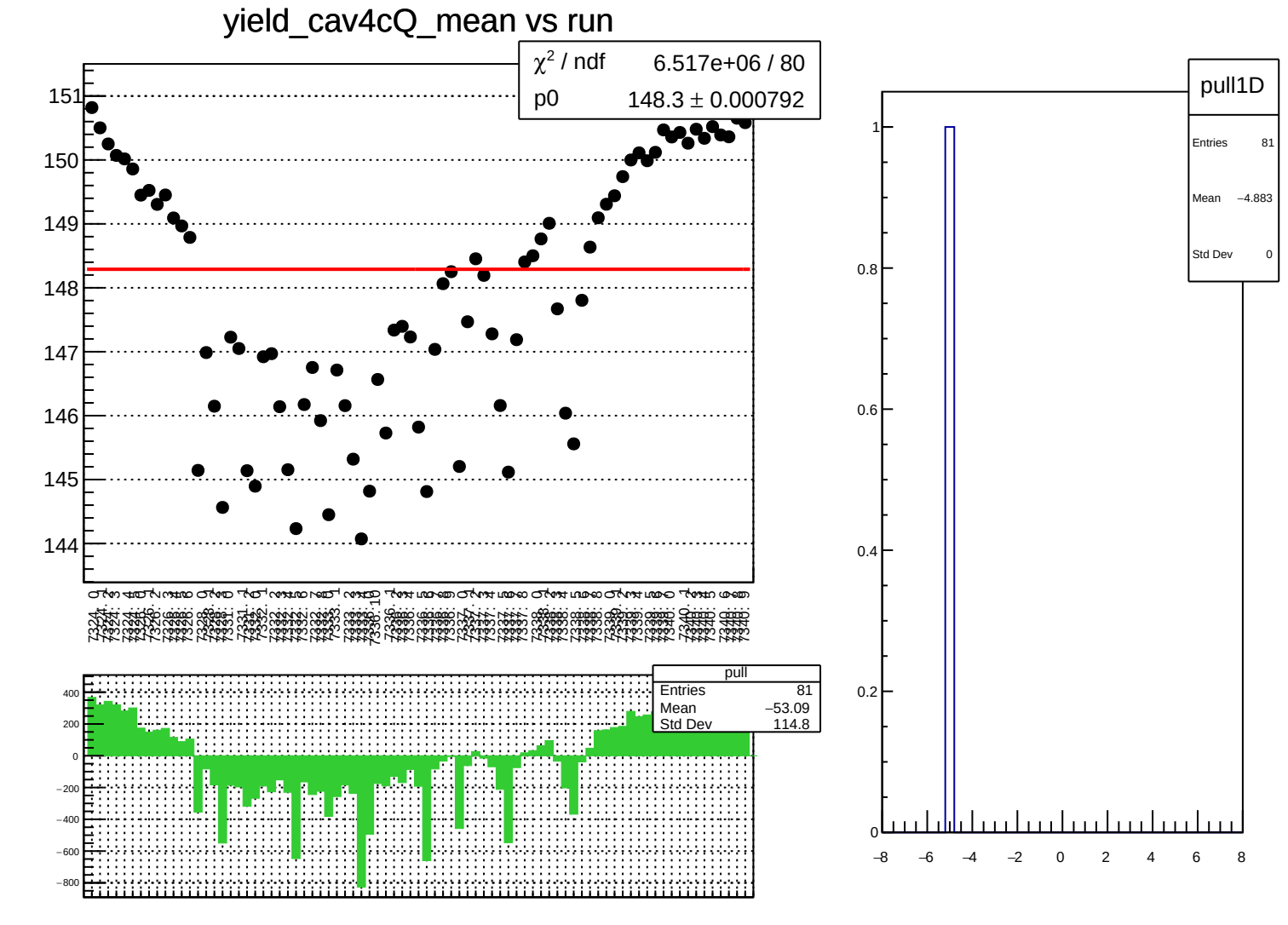

pull1D
Entries 81
Mean −2.061
Std Dev 5.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

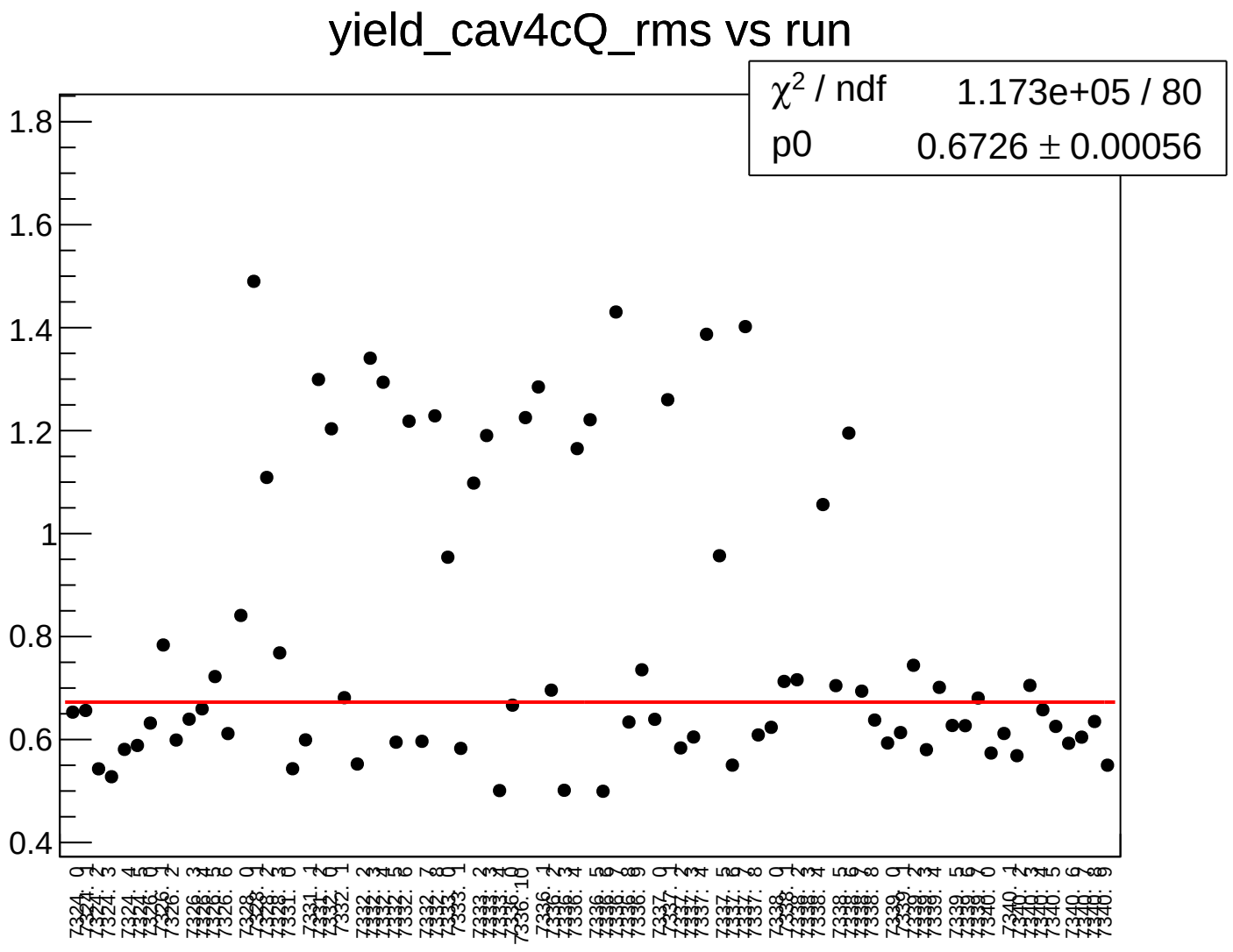

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.555e+04 / 80
p0 0.5409 ± 0.0004353
0.7
0.65
0.6
0.55
0.5
0.45

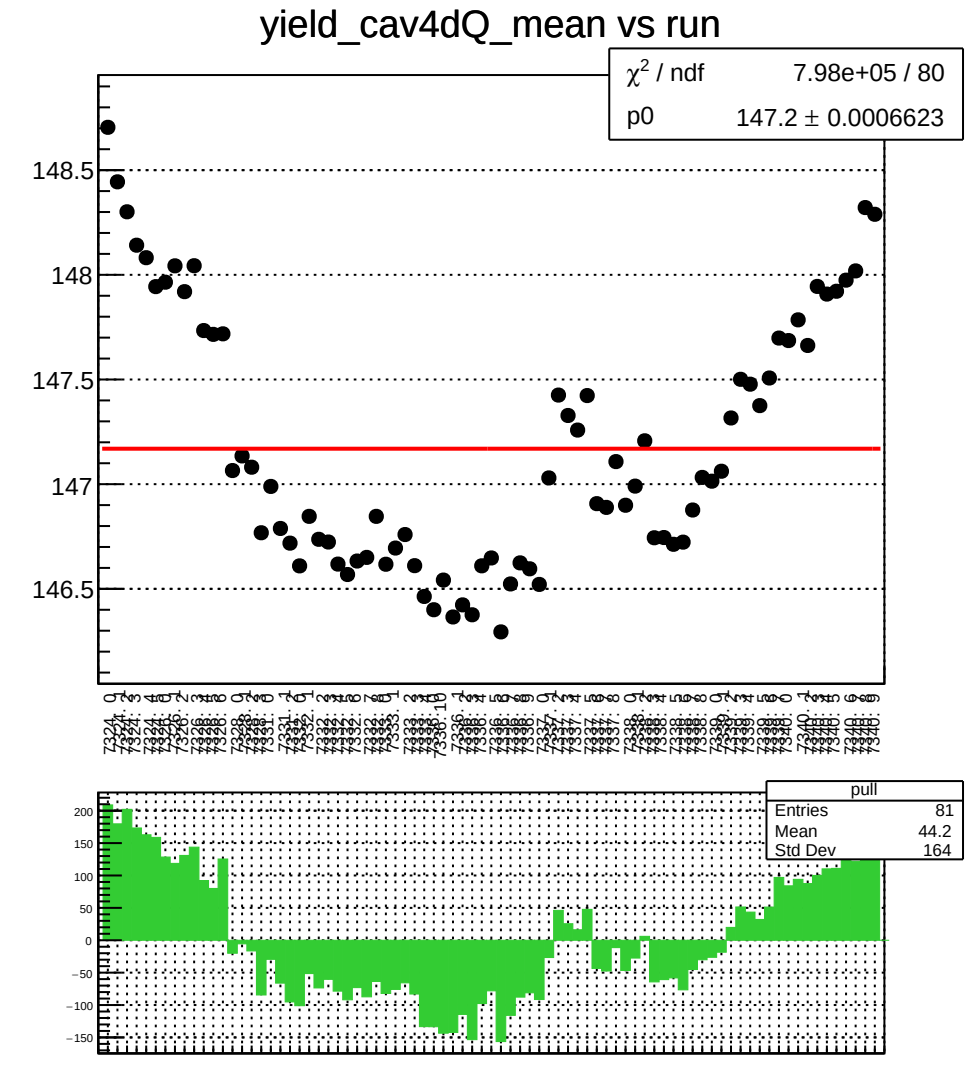

yield_cav4bQ_mean vs run
χ² / ndf 2.515e+06 / 80
p0 142.1± 0.0007788
147
146
145
144
143
142
141
140
pull
Entries 81
Mean 65.74
Std Dev 15.33
400
300
200
100
0
−100
−200
−300

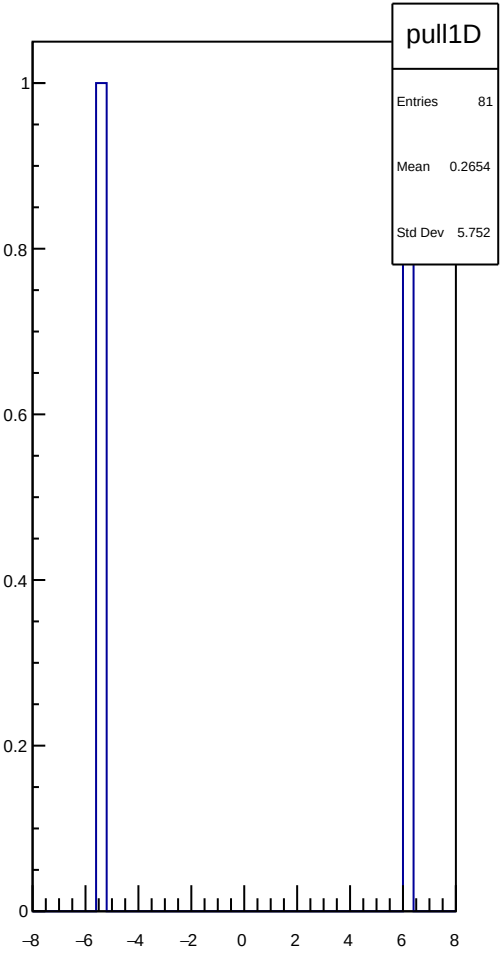

pull1D
Entries 81
Mean −3.97
Std Dev 1.899
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

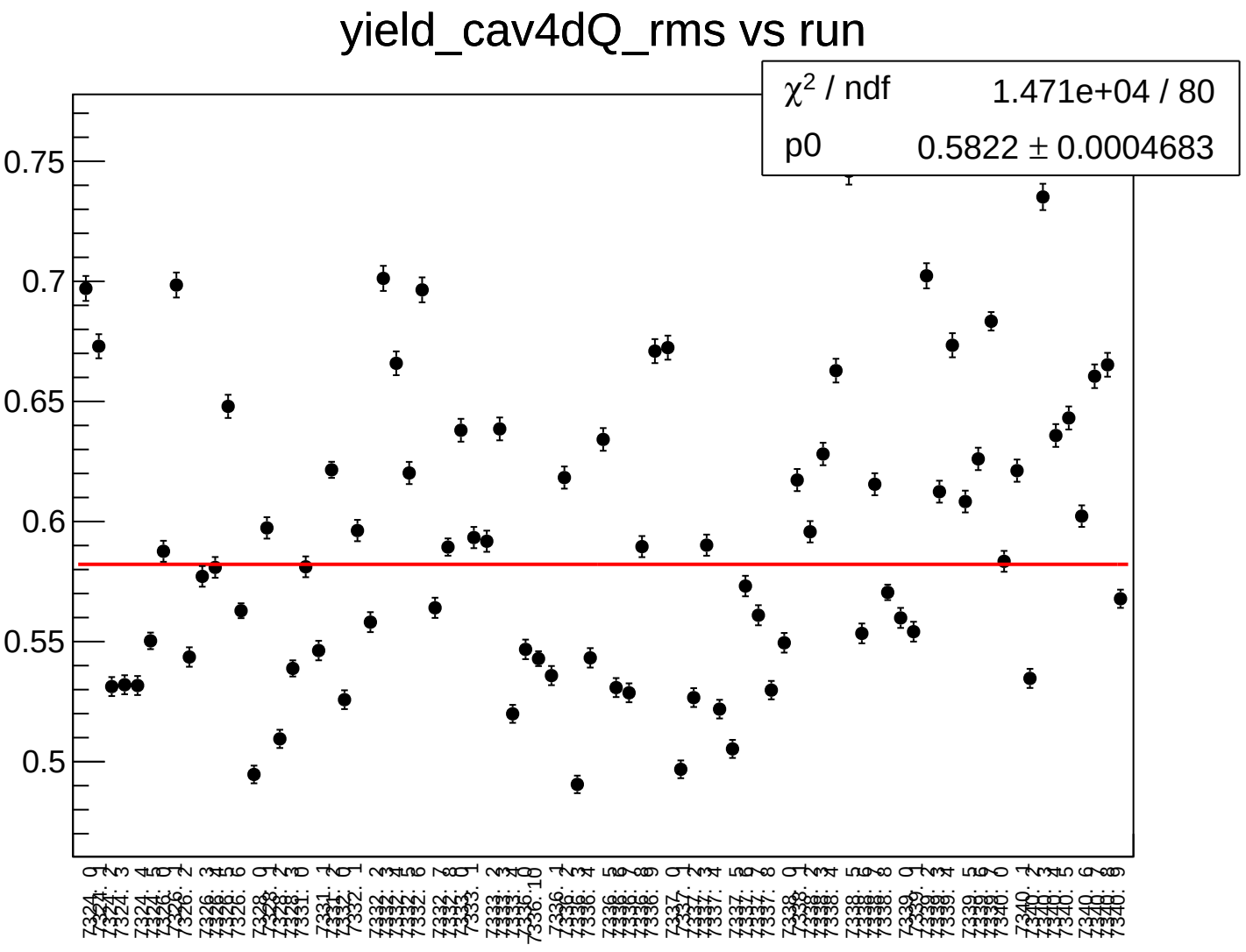

yield_cav4bQ_rms vs run
χ² / ndf 2.241e+05 / 80
p0 0.6365 ± 0.0005507
3
2.5
2
1.5
1
0.5

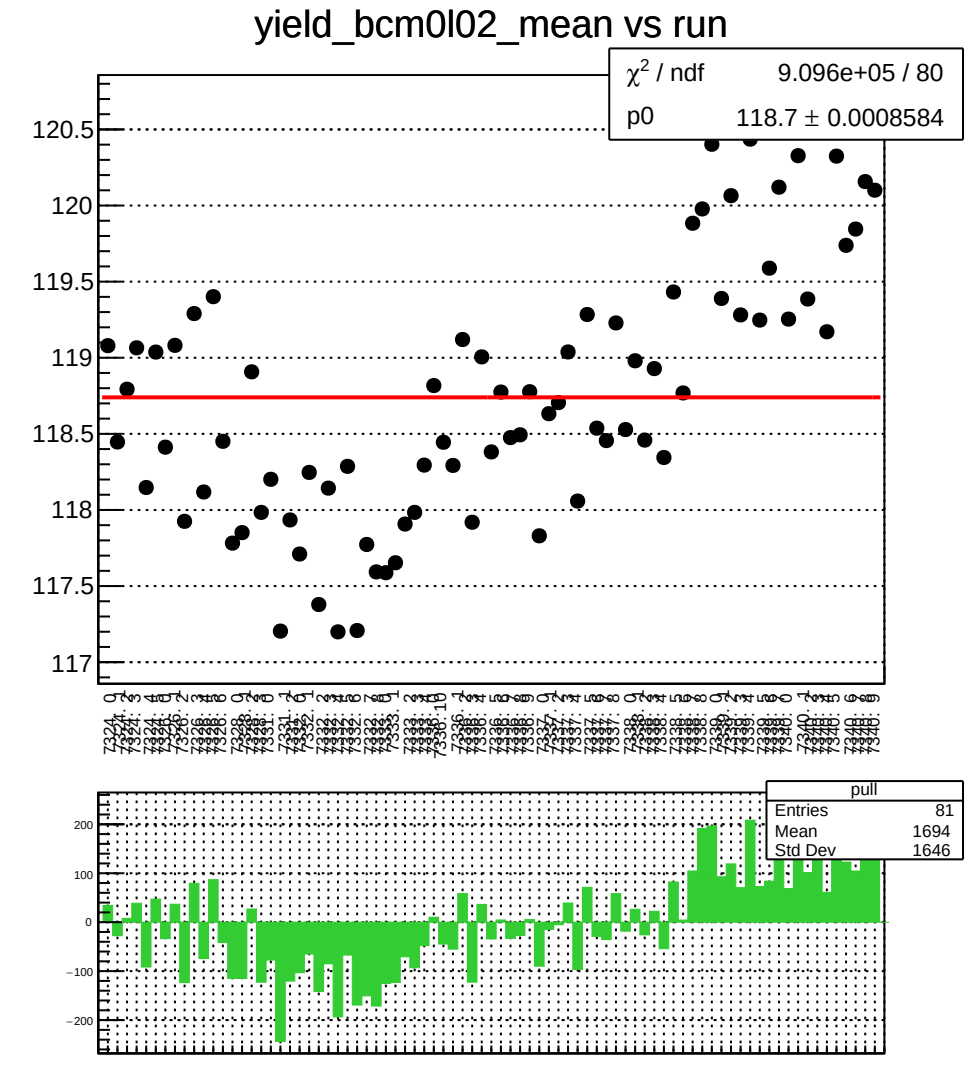

yield_cav4cQ_mean vs run
χ² / ndf 6.517e+06 / 80
p0 148.3 ± 0.000792
pull
Entries 81
Mean −53.09
Std Dev 114.8
pull1D
Entries 81
Mean −4.883
Std Dev 0

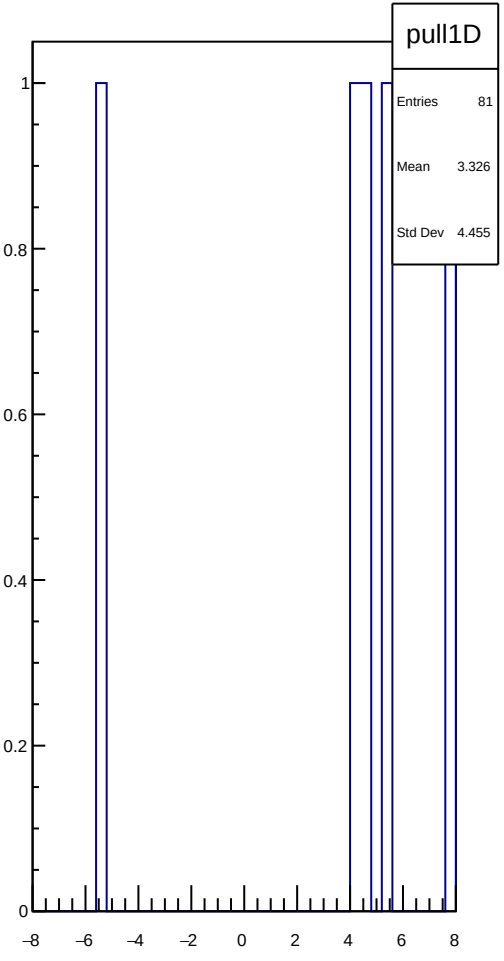

yield_cav4cQ_rms vs run
χ^2 / ndf 1.173e+05 / 80
p0 0.6726 ± 0.00056
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

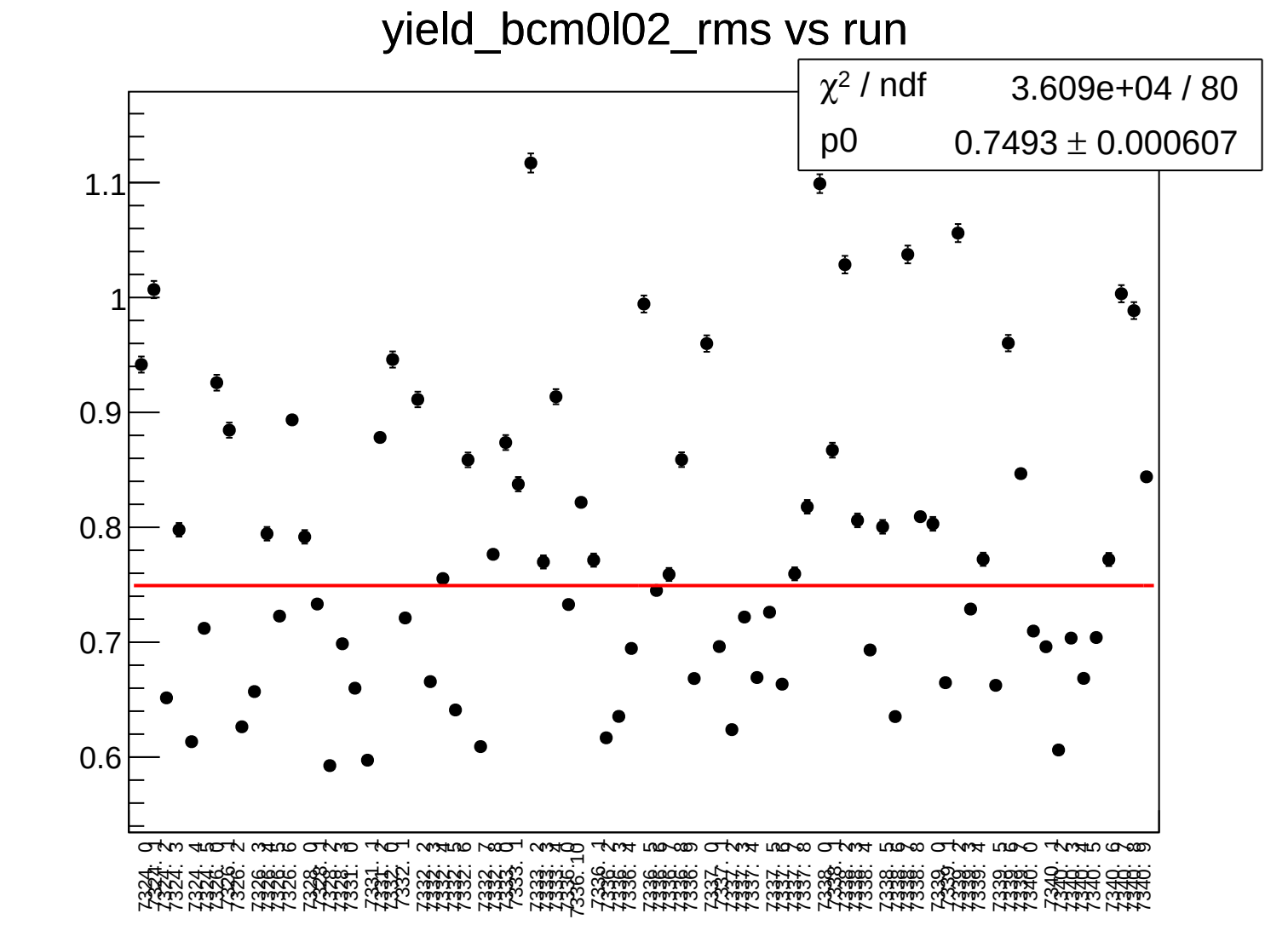

yield_cav4dQ_mean vs run
χ² / ndf 7.98e+05 / 80
p0 147.2 ± 0.0006623
148.5
148
147.5
147
146.5
pull
Entries 81
Mean 44.2
Std Dev 164
200
150
100
50
0
−50
−100
−150

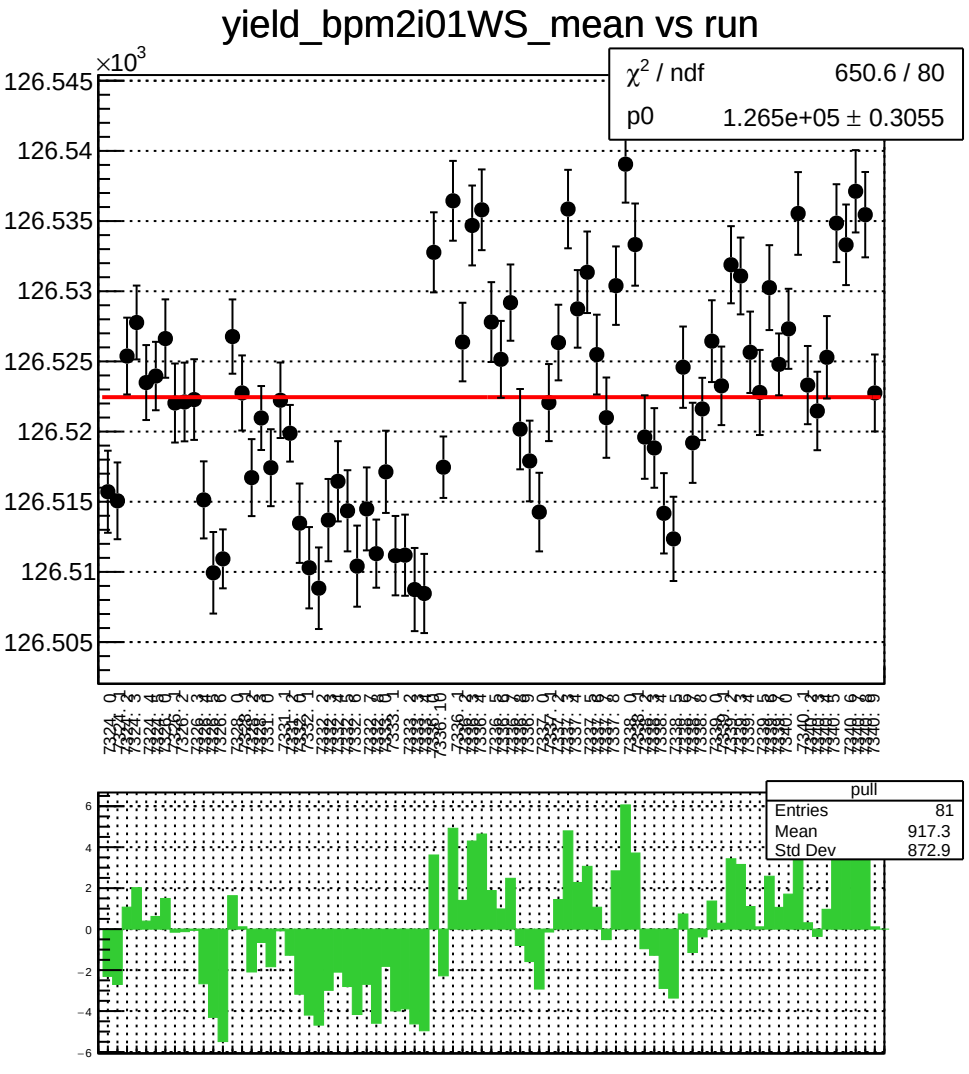

pull1D
Entries 81
Mean 0.2654
Std Dev 5.752
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

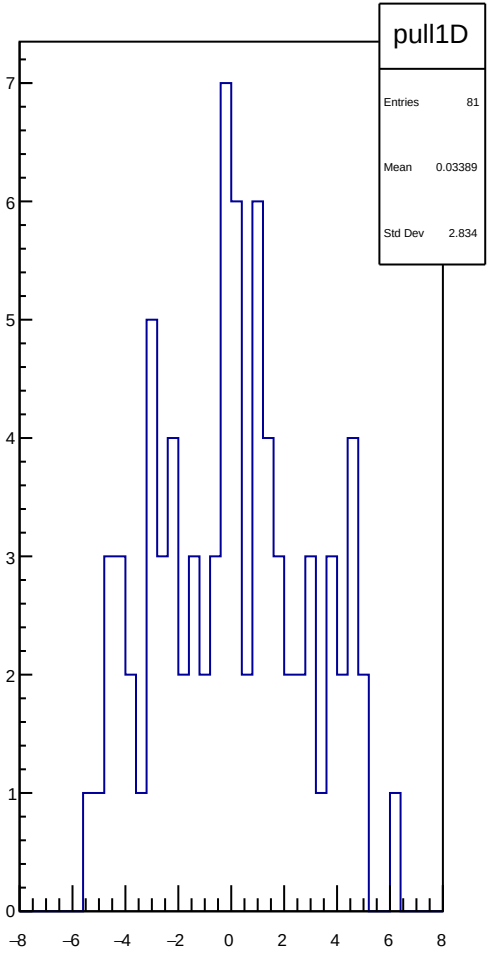

yield_cav4dQ_rms vs run
χ² / ndf 1.471e+04 / 80
p0 0.5822 ± 0.0004683
0.75
0.7
0.65
0.6
0.55
0.5

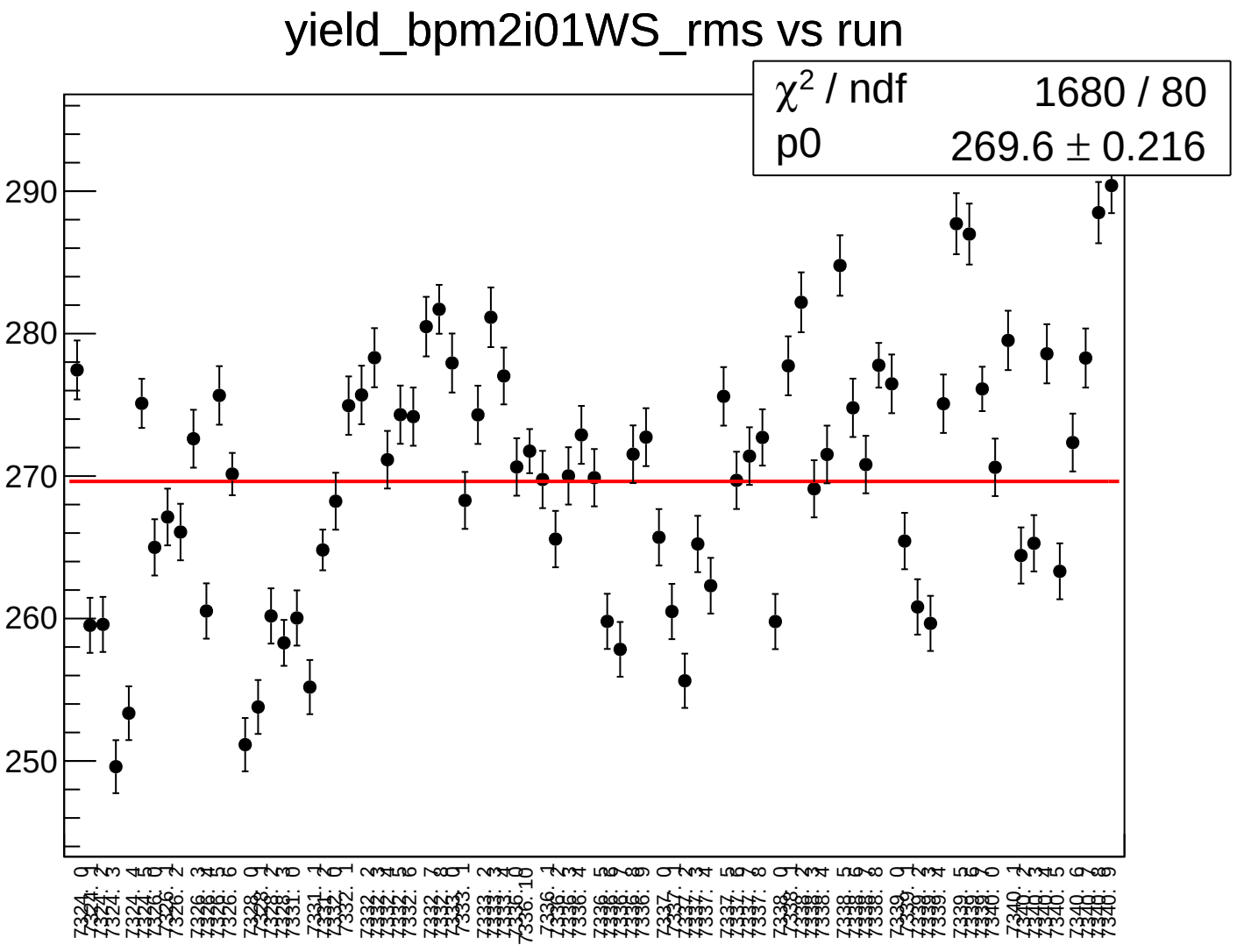

yield_bcm0l02_mean vs run
χ² / ndf 9.096e+05 / 80
p0 118.7 ± 0.0008584
120.5
120
119.5
119
118.5
118
117.5
117
pull
Entries 81
Mean 1694
Std Dev 1646
200
100
0
−100
−200

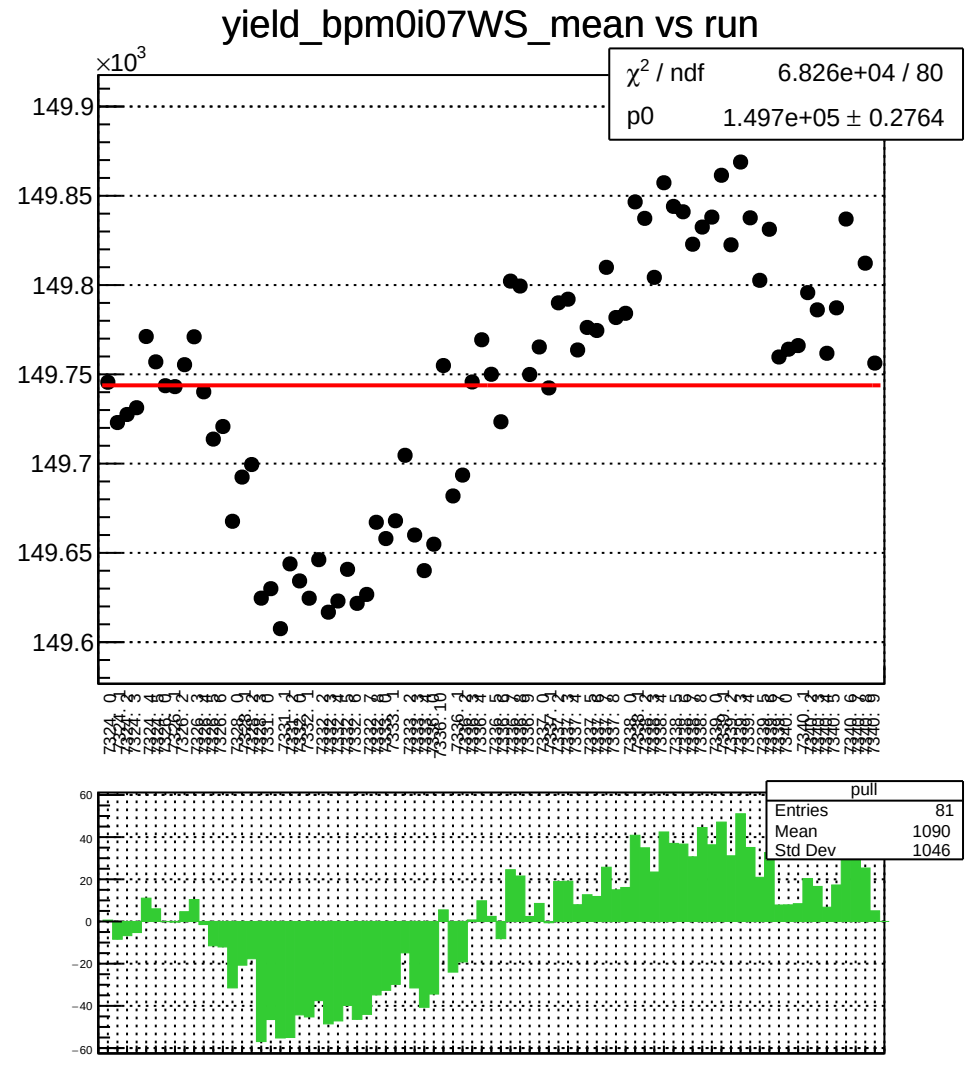

pull1D
Entries 81
Mean 3.326
Std Dev 4.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

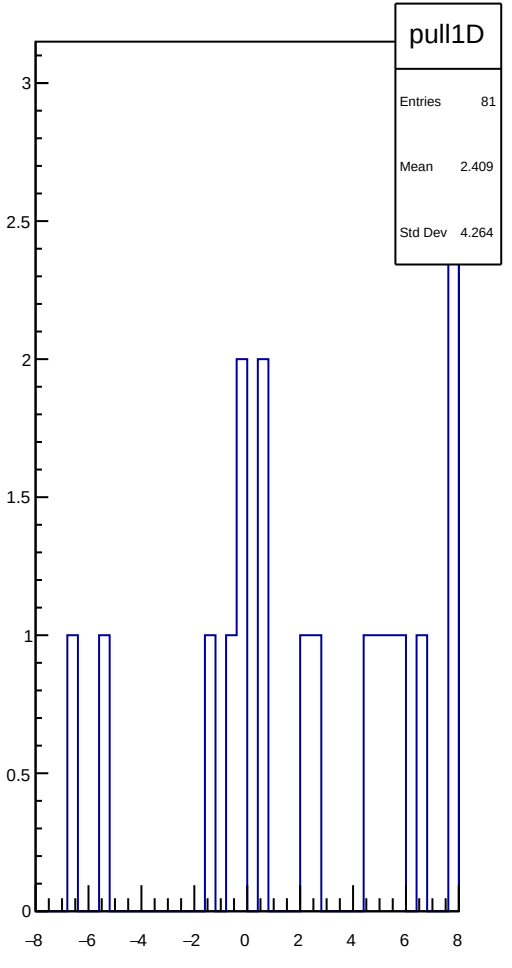

yield_bcm0l02_rms vs run
χ² / ndf 3.609e+04 / 80
p0 0.7493 ± 0.000607
1.1
1
0.9
0.8
0.7
0.6

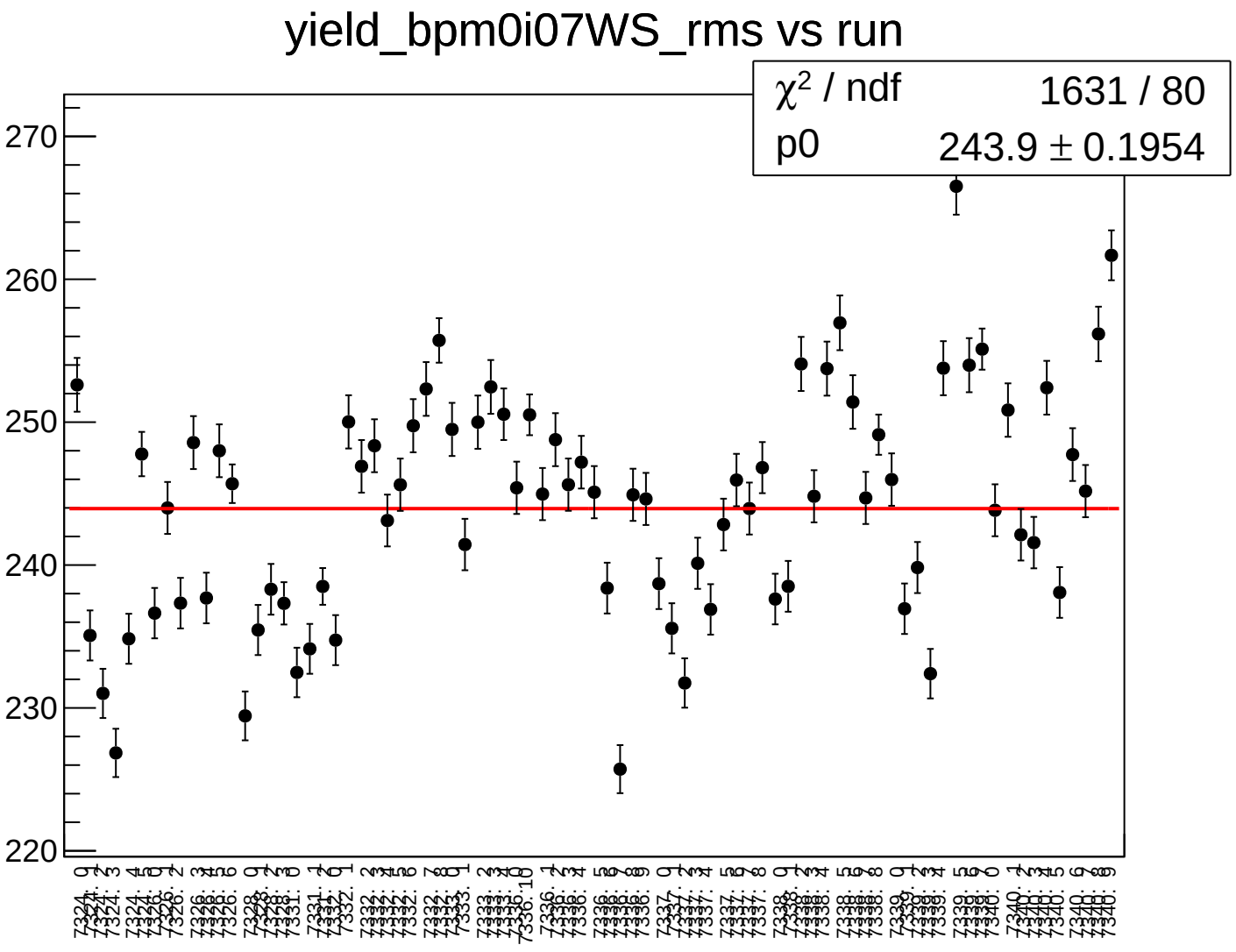

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 650.6 / 80
p0 1.265e+05 ± 0.3055
126.545
126.54
126.535
126.53
126.525
126.52
126.515
126.51
126.505
pull
Entries 81
Mean 917.3
Std Dev 872.9
6
4
2
0
−2
−4
−6

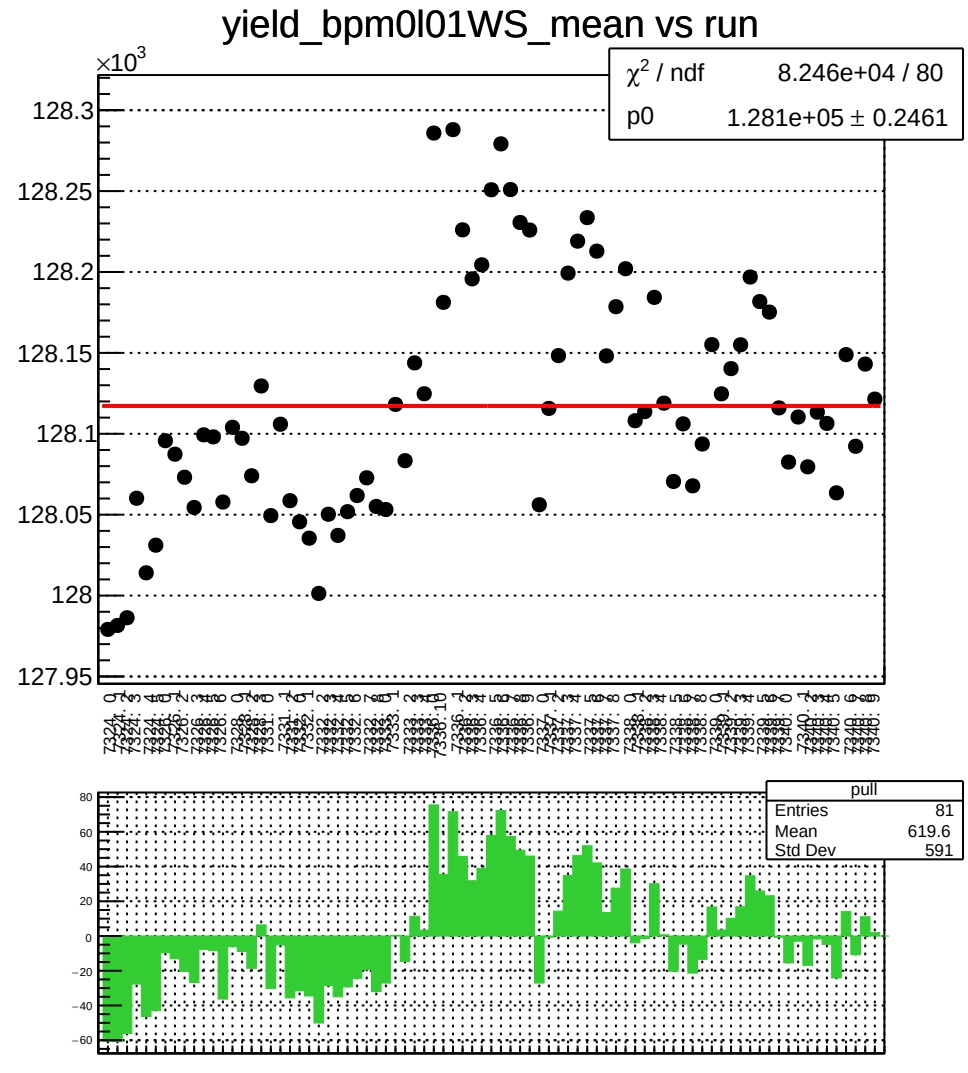

pull1D
Entries 81
Mean 0.03389
Std Dev 2.834
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

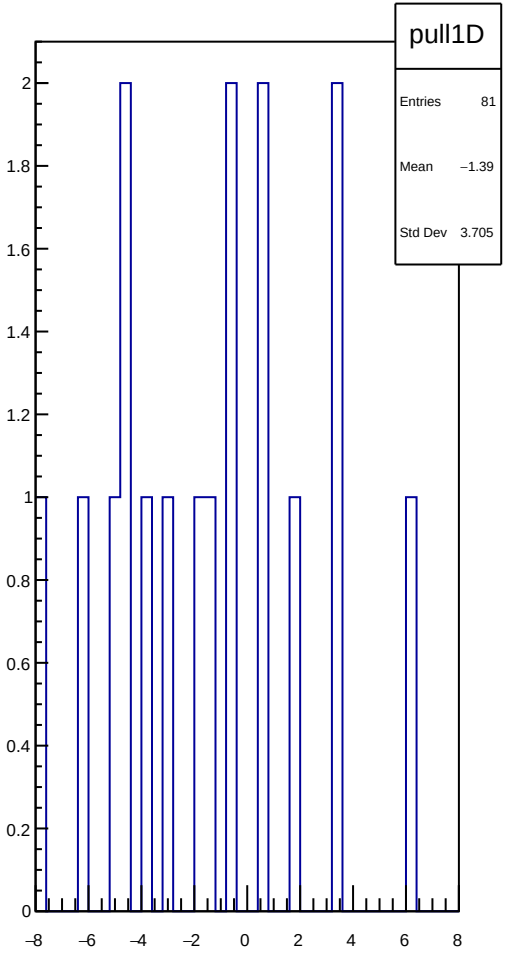

yield_bpm2i01WS_rms vs run
χ² / ndf 1680 / 80
p0 269.6 ± 0.216
290
280
270
260
250

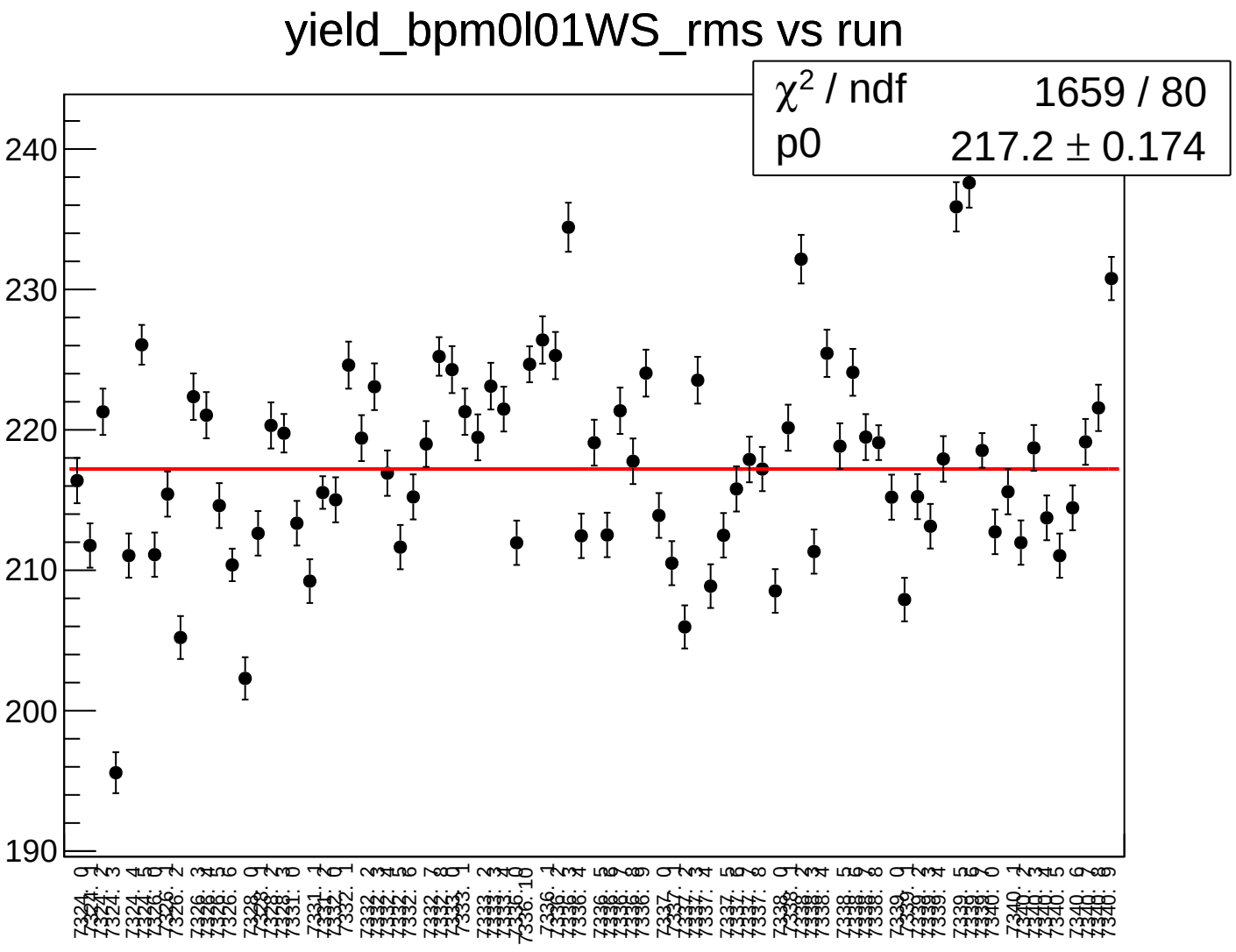

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 6.826e+04 / 80
p0 1.497e+05 ± 0.2764
149.9
149.85
149.8
149.75
149.7
149.65
149.6
pull
Entries 81
Mean 1090
Std Dev 1046
60
40
20
0
−20
−40
−60

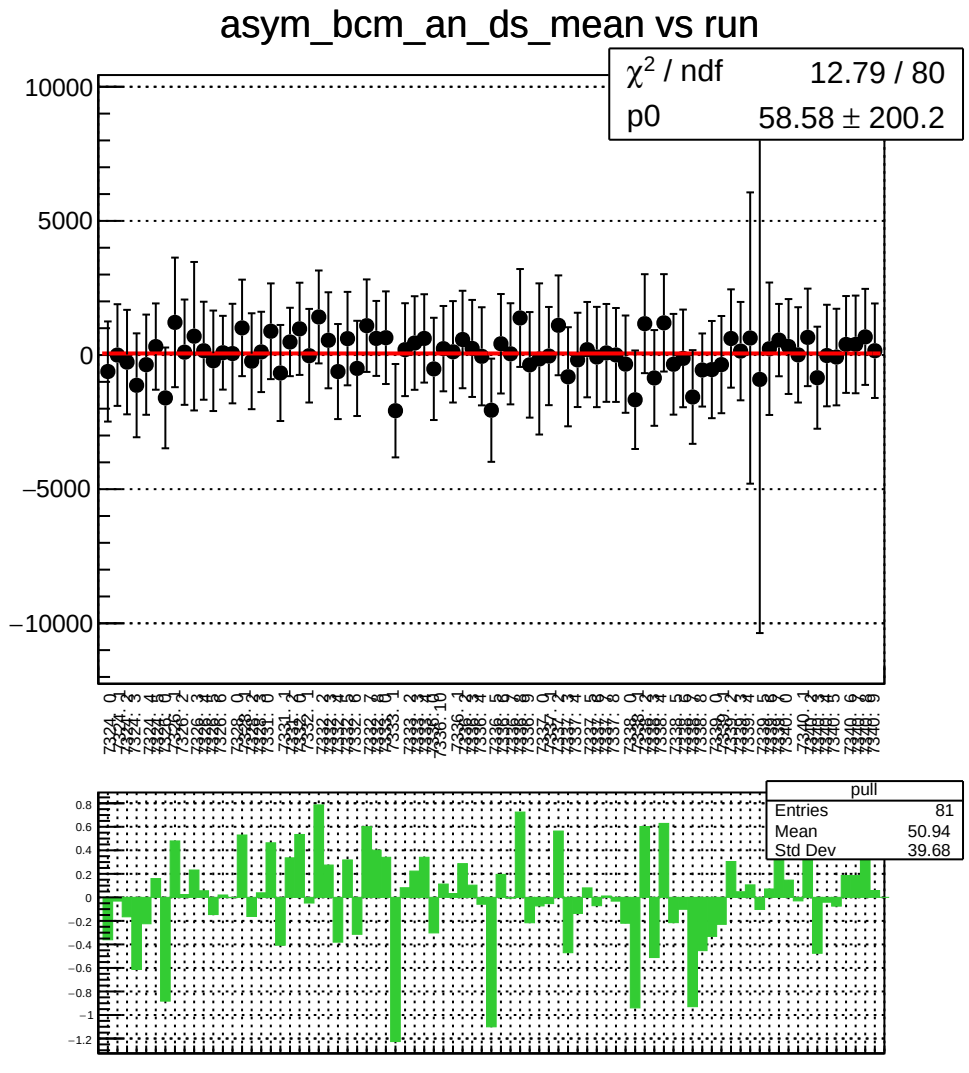

pull1D
Entries 81
Mean 2.409
Std Dev 4.264
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

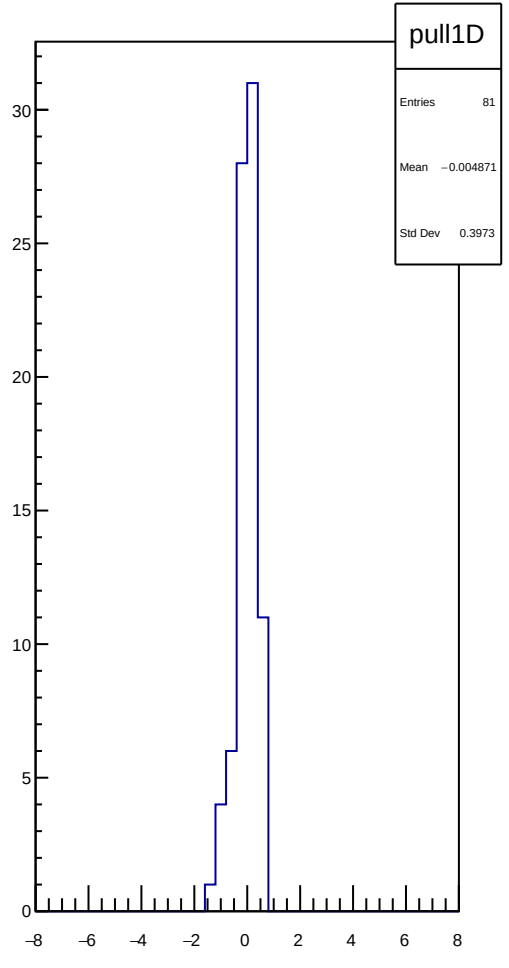

yield_bpm0i07WS_rms vs run
χ² / ndf 1631 / 80
p0 243.9 ± 0.1954
270
260
250
240
230
220

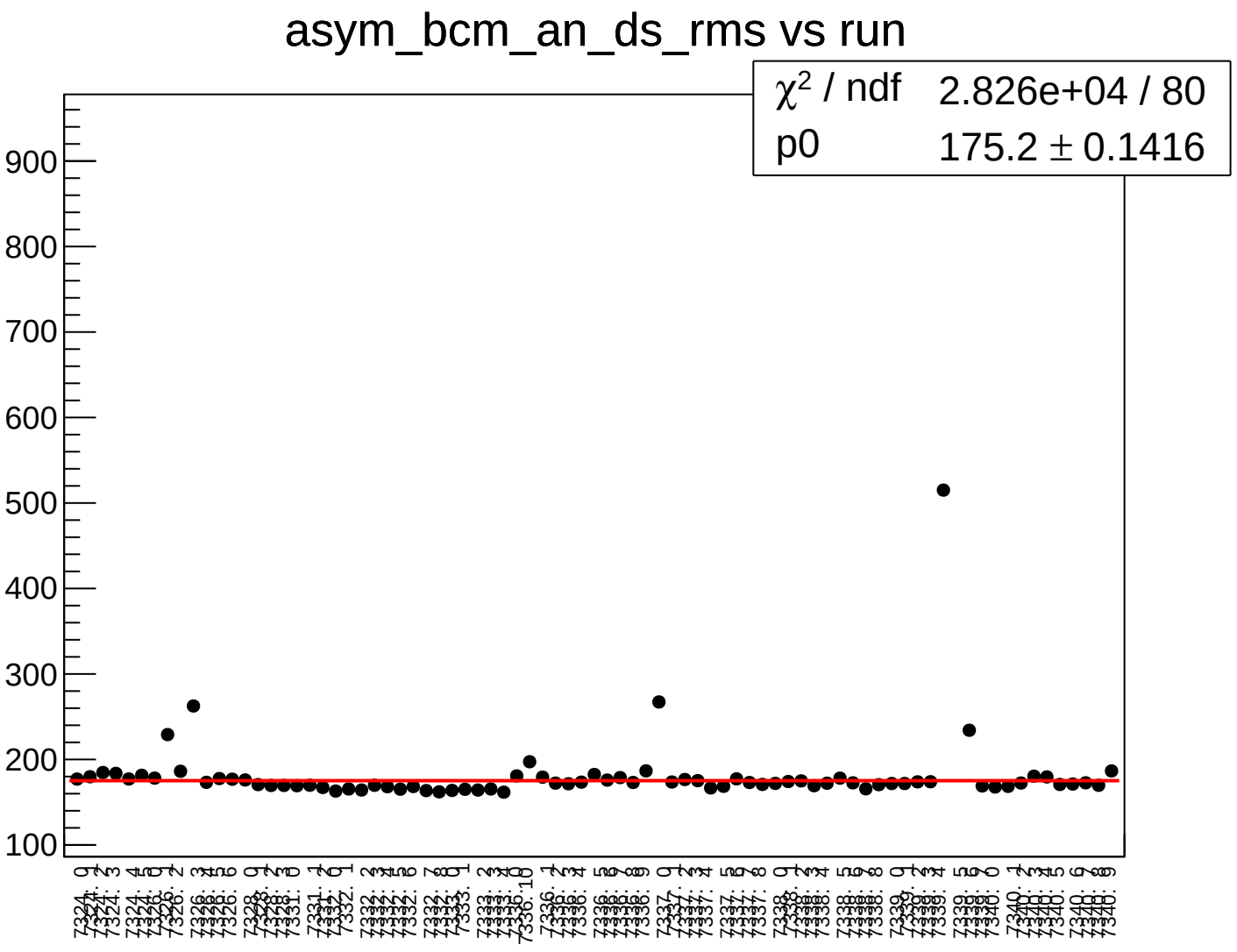

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.246e+04 / 80
p0 1.281e+05 ± 0.2461
128.3
128.25
128.2
128.15
128.1
128.05
128
127.95
pull
Entries 81
Mean 619.6
Std Dev 591
80
60
40
20
0
−20
−40
−60

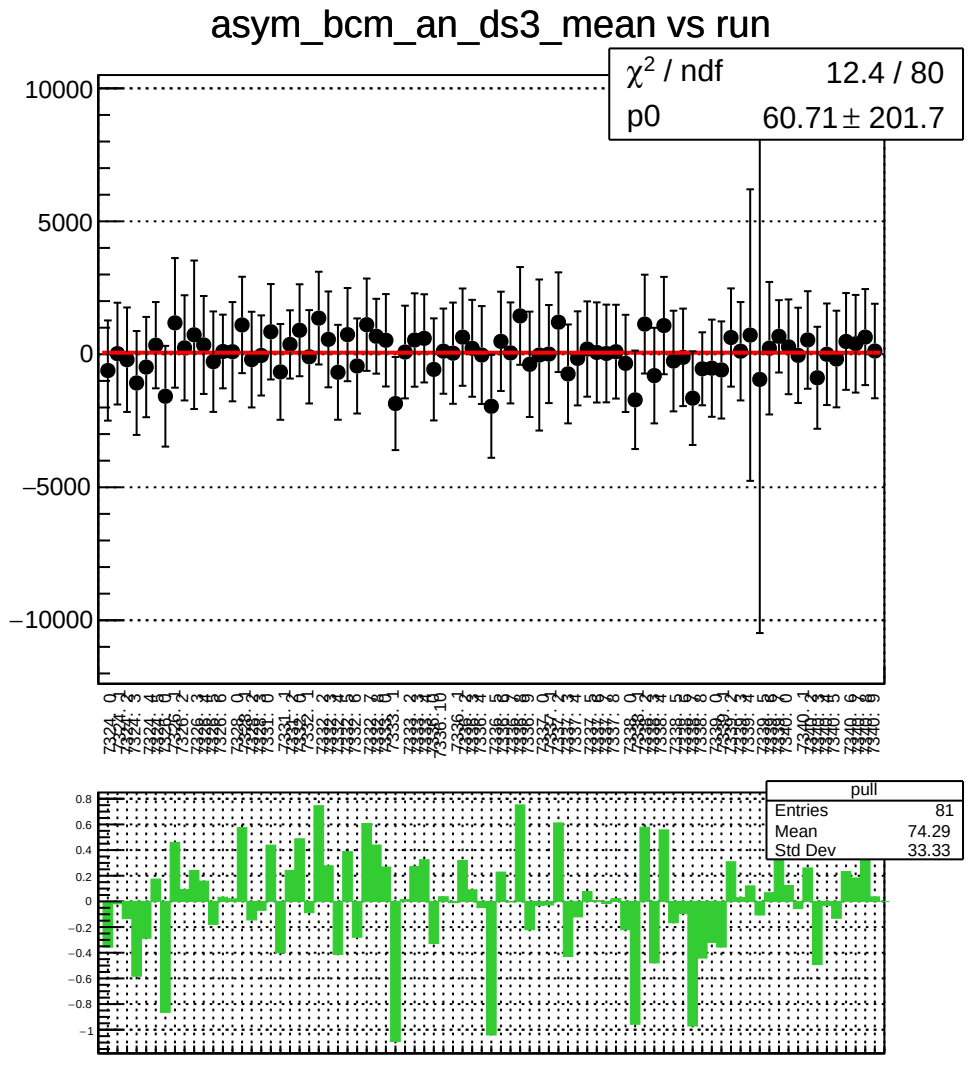

pull1D
Entries 81
Mean −1.39
Std Dev 3.705
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

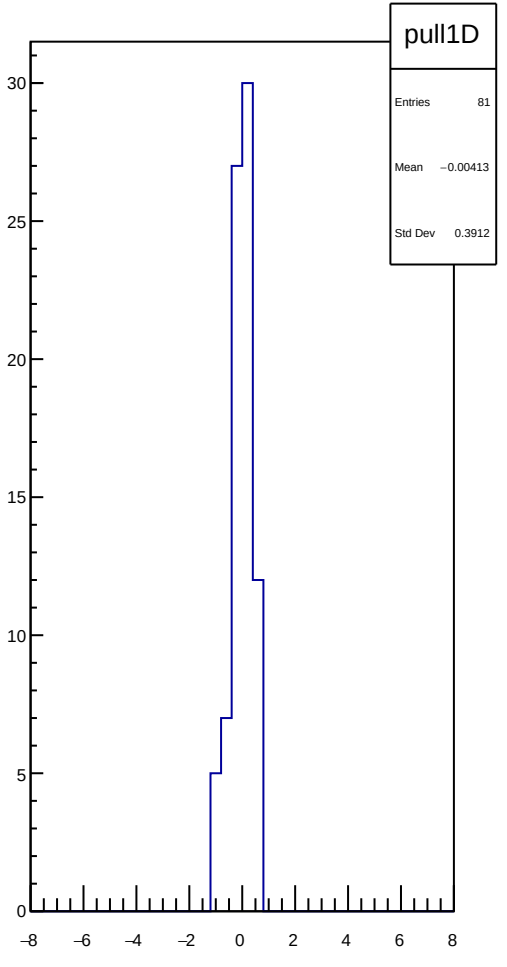

yield_bpm0l01WS_rms vs run
χ² / ndf 1659 / 80
p0 217.2 ± 0.174
240
230
220
210
200
190

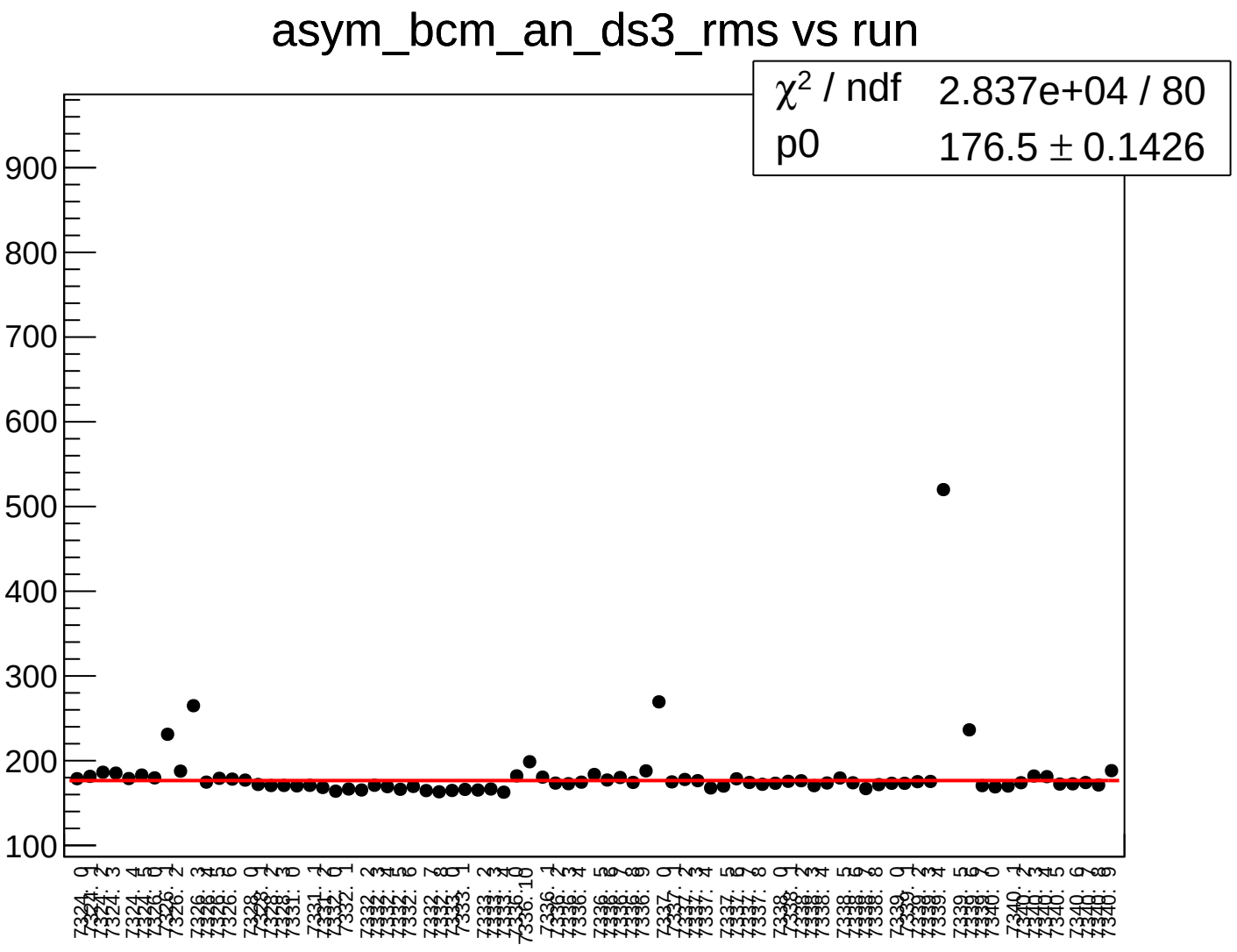

asym_bcm_an_ds_mean vs run
χ² / ndf 12.79 / 80
p0 58.58 ± 200.2
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 50.94
Std Dev 39.68
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

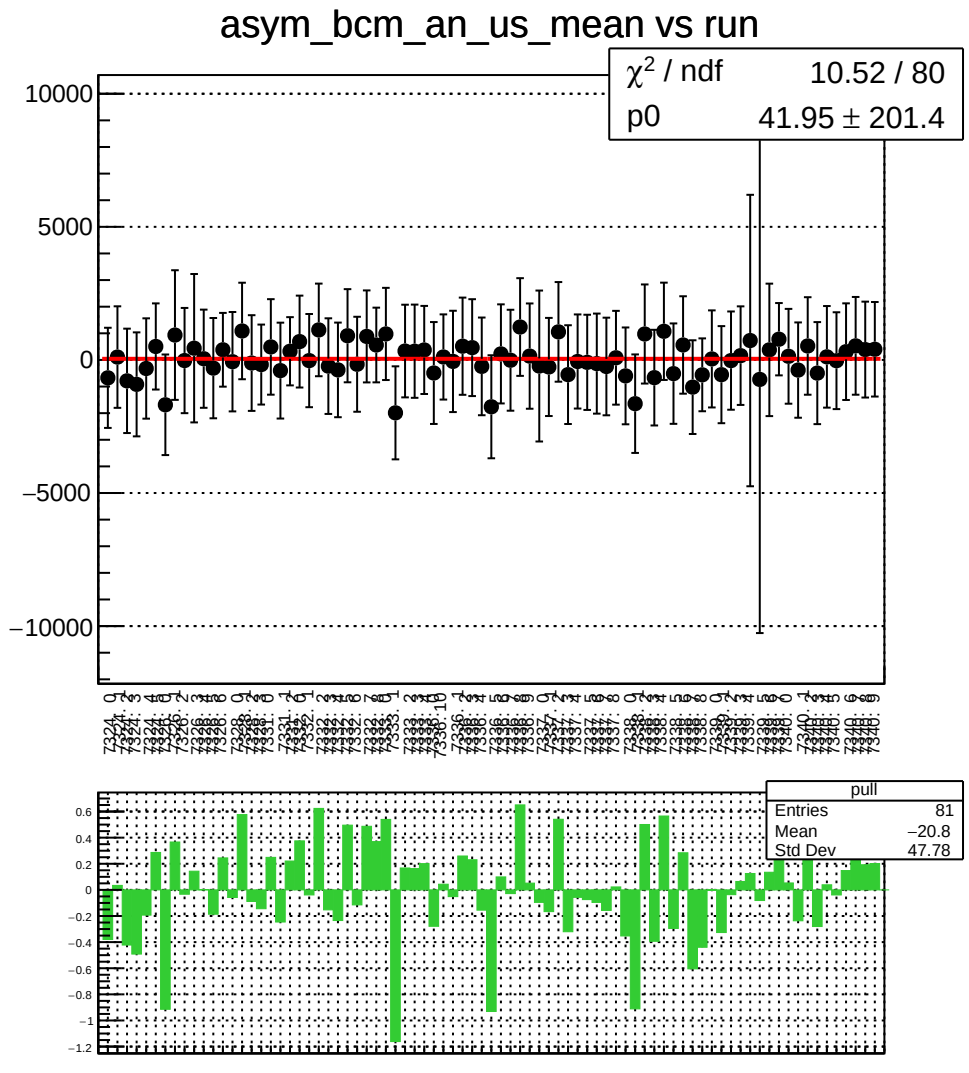

pull1D
Entries 81
Mean −0.004871
Std Dev 0.3973
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

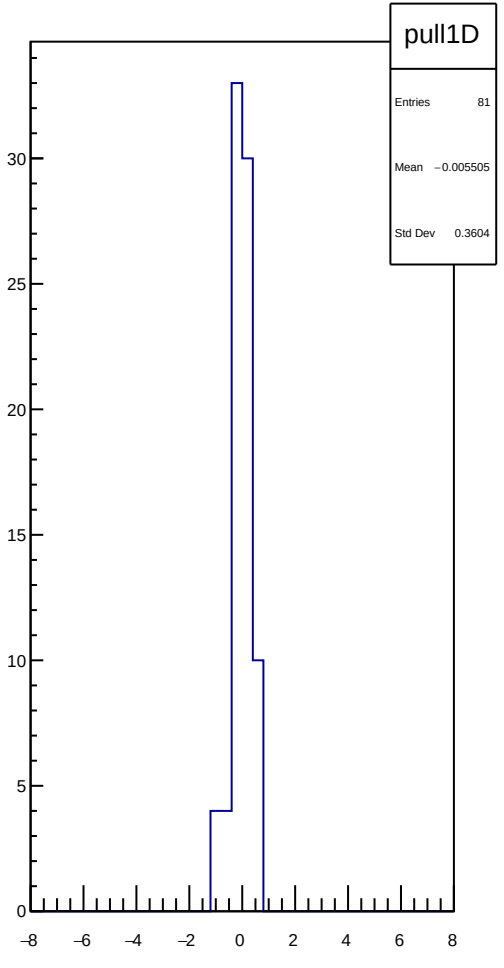

asym_bcm_an_ds_rms vs run
χ^2 / ndf 2.826e+04 / 80
p0 175.2 ± 0.1416
900
800
700
600
500
400
300
200
100

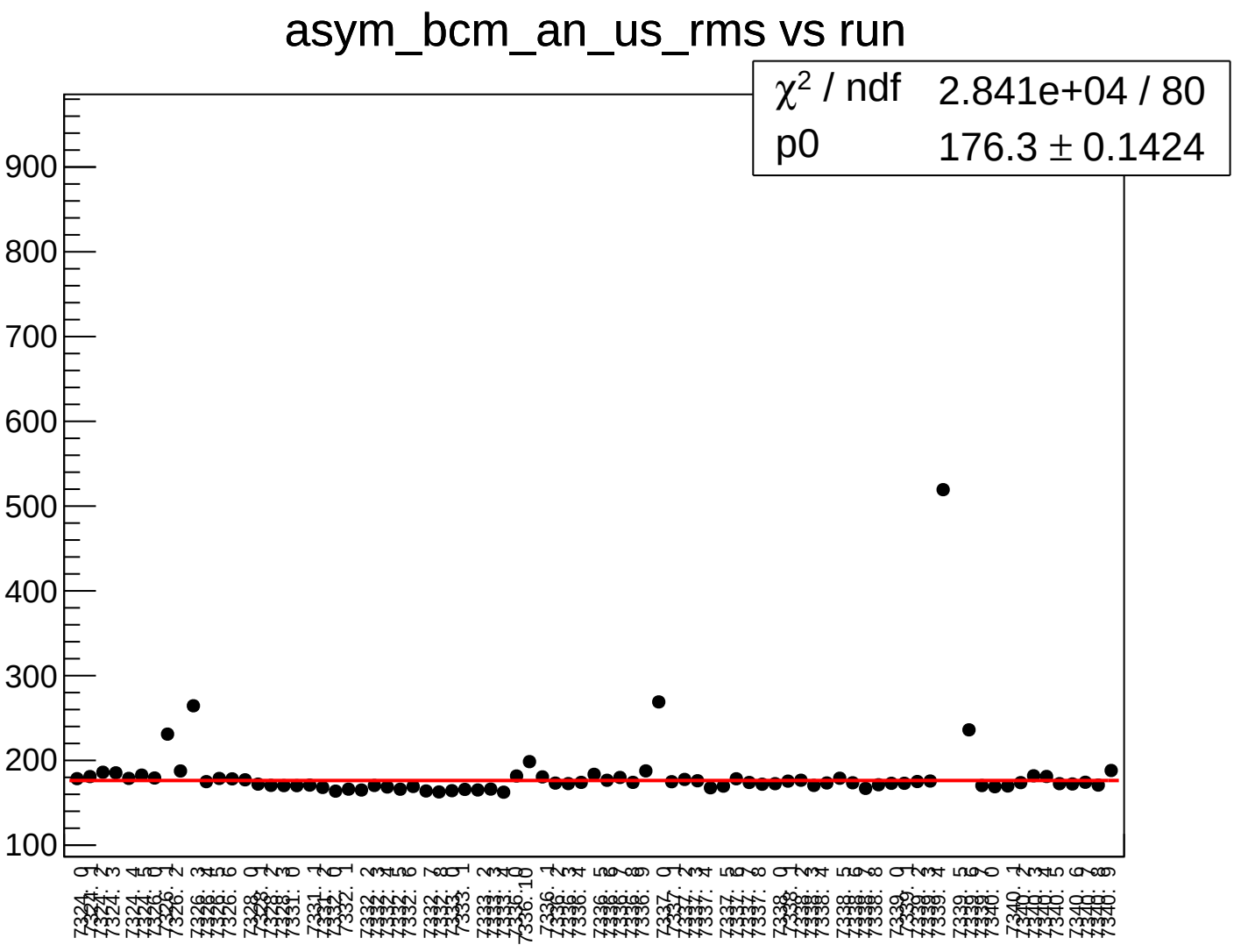

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.4 / 80
p0 60.71 ± 201.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 74.29
Std Dev 33.33
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

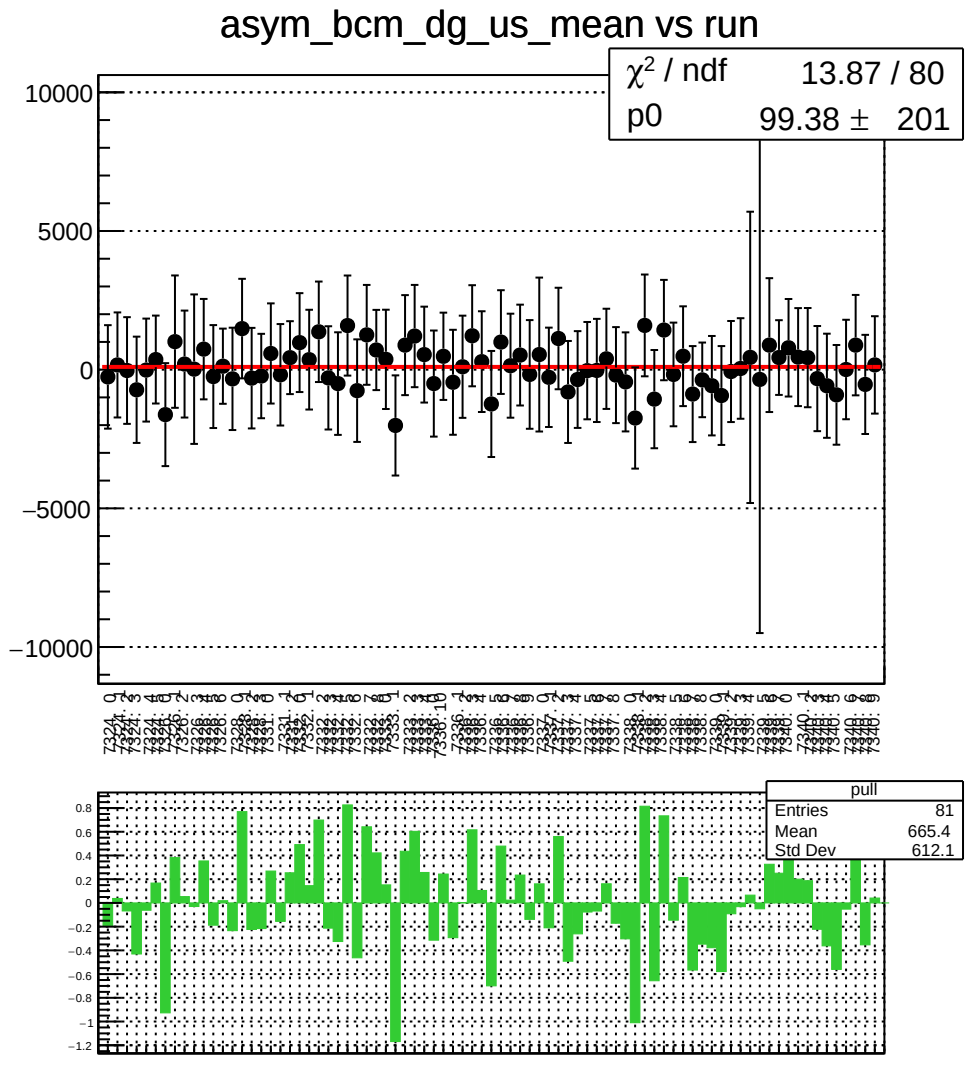

pull1D
Entries 81
Mean −0.00413
Std Dev 0.3912
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

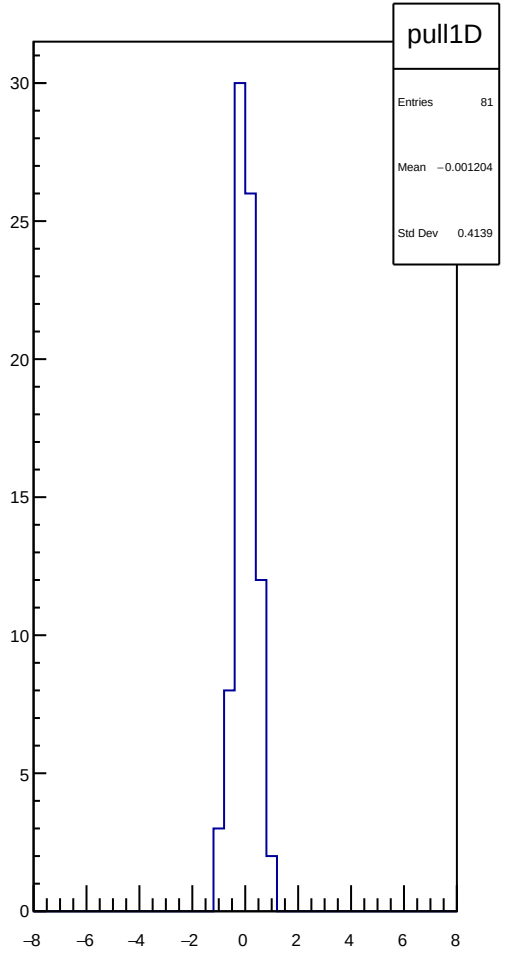

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2.837e+04 / 80
p0 176.5 ± 0.1426
900
800
700
600
500
400
300
200
100

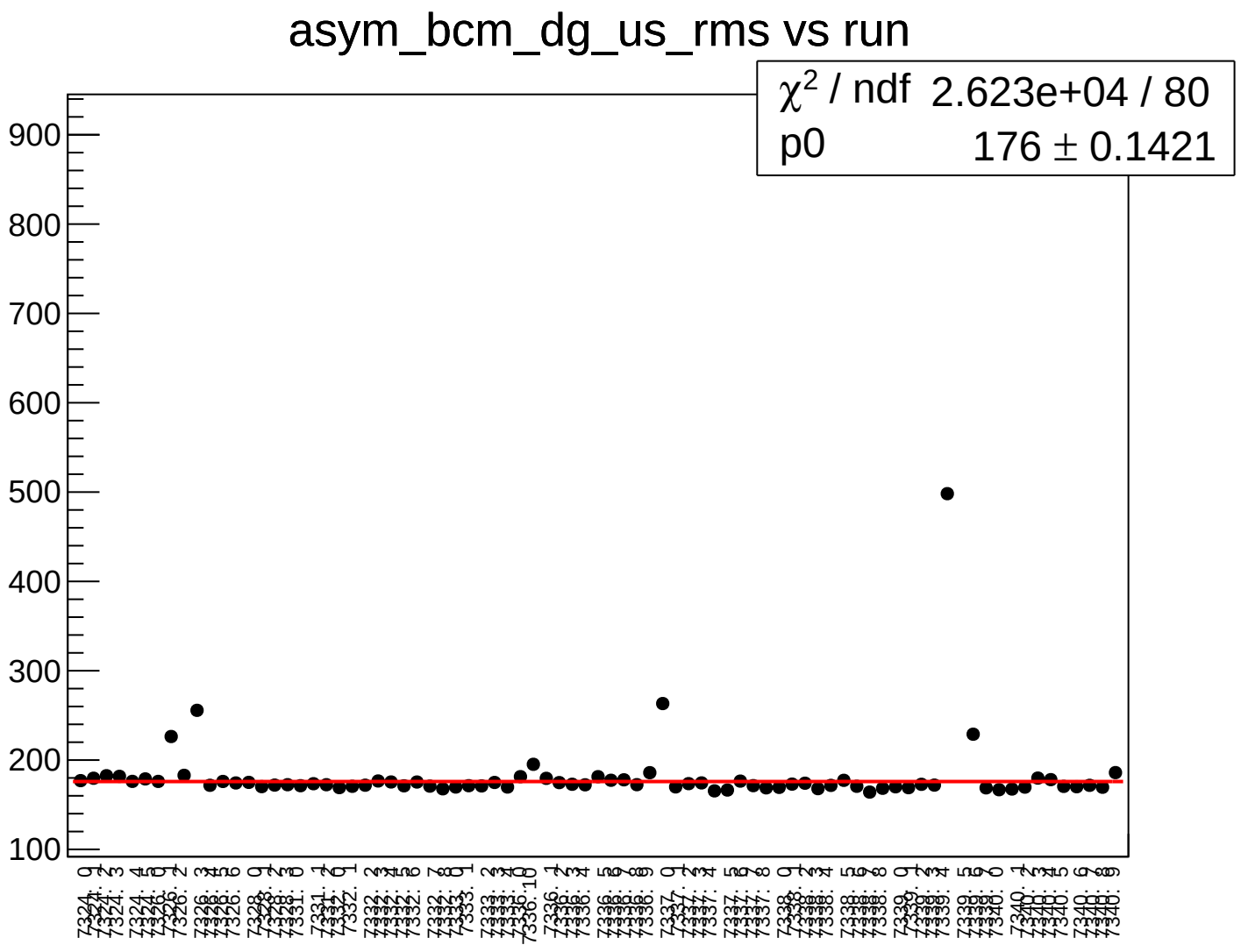

asym_bcm_an_us_mean vs run
χ^2 / ndf 10.52 / 80
p0 41.95 ± 201.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −20.8
Std Dev 47.78
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

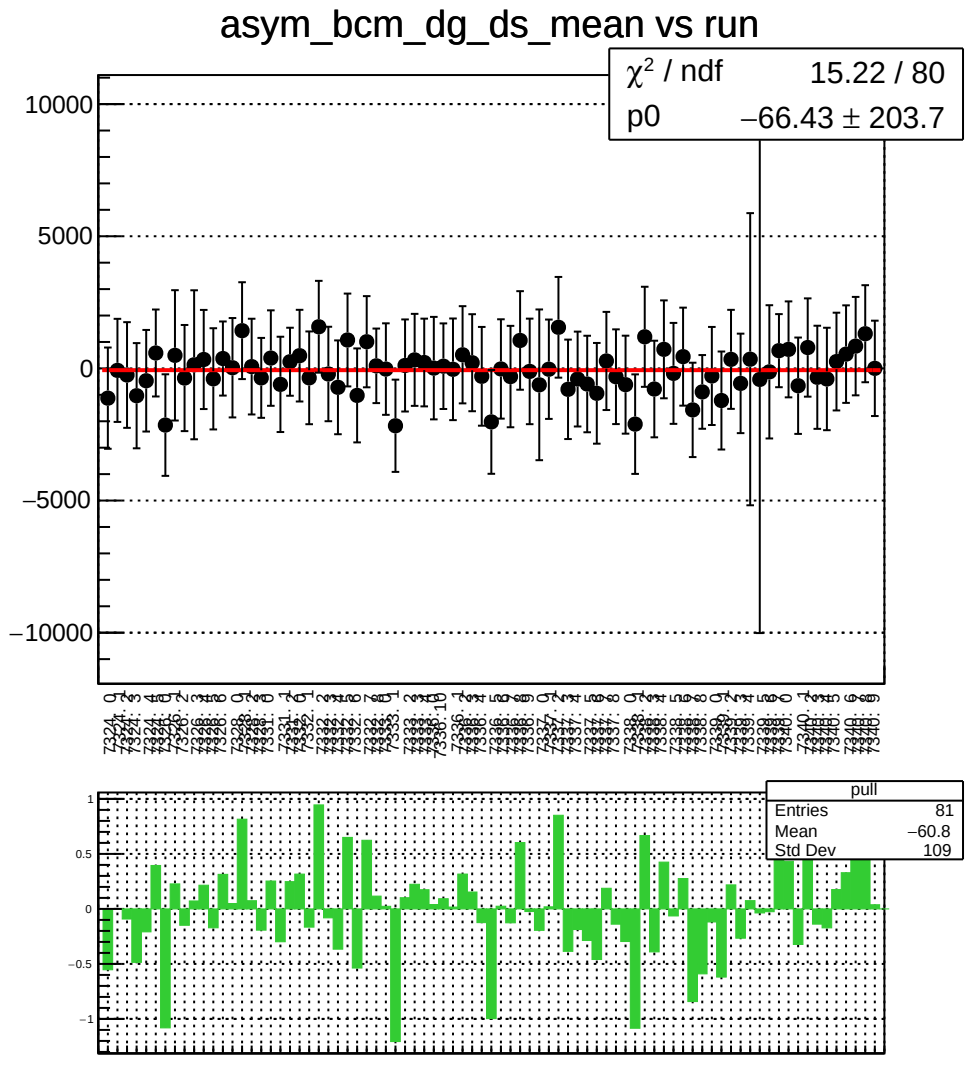

pull1D
Entries 81
Mean −0.005505
Std Dev 0.3604
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

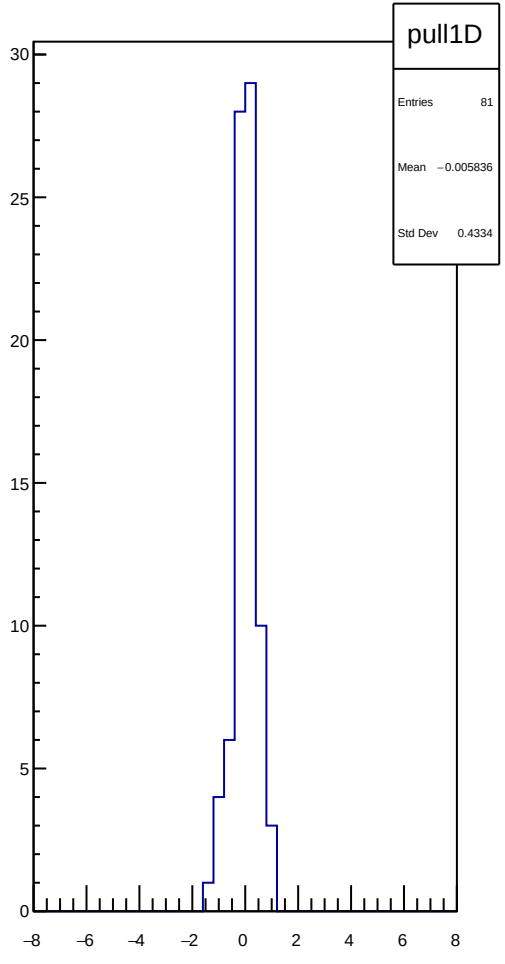

asym_bcm_an_us_rms vs run
χ^2 / ndf 2.841e+04 / 80
p0 176.3 ± 0.1424
900
800
700
600
500
400
300
200
100

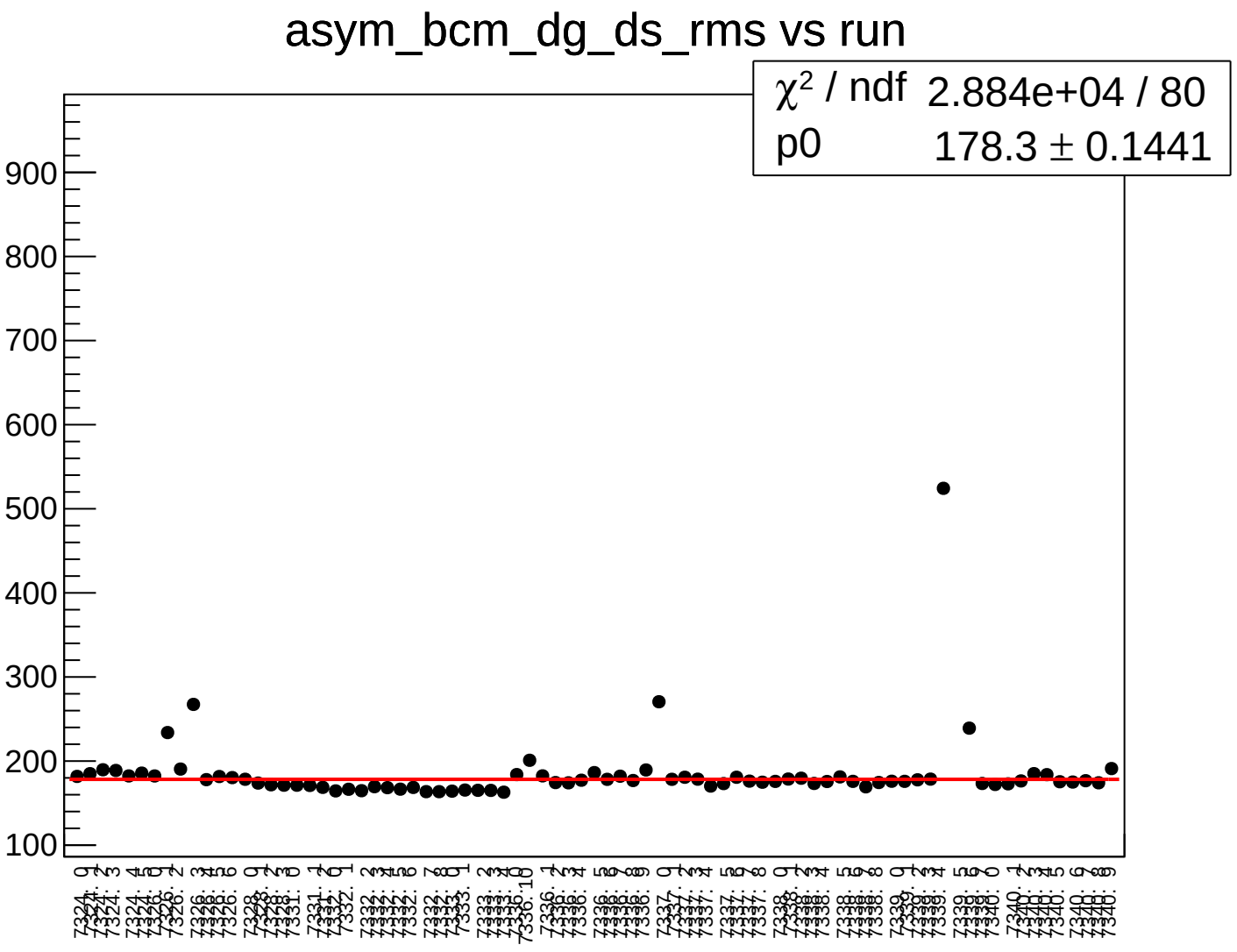

asym_bcm_dg_us_mean vs run
χ² / ndf 13.87 / 80
p0 99.38 ± 201
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 665.4
Std Dev 612.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

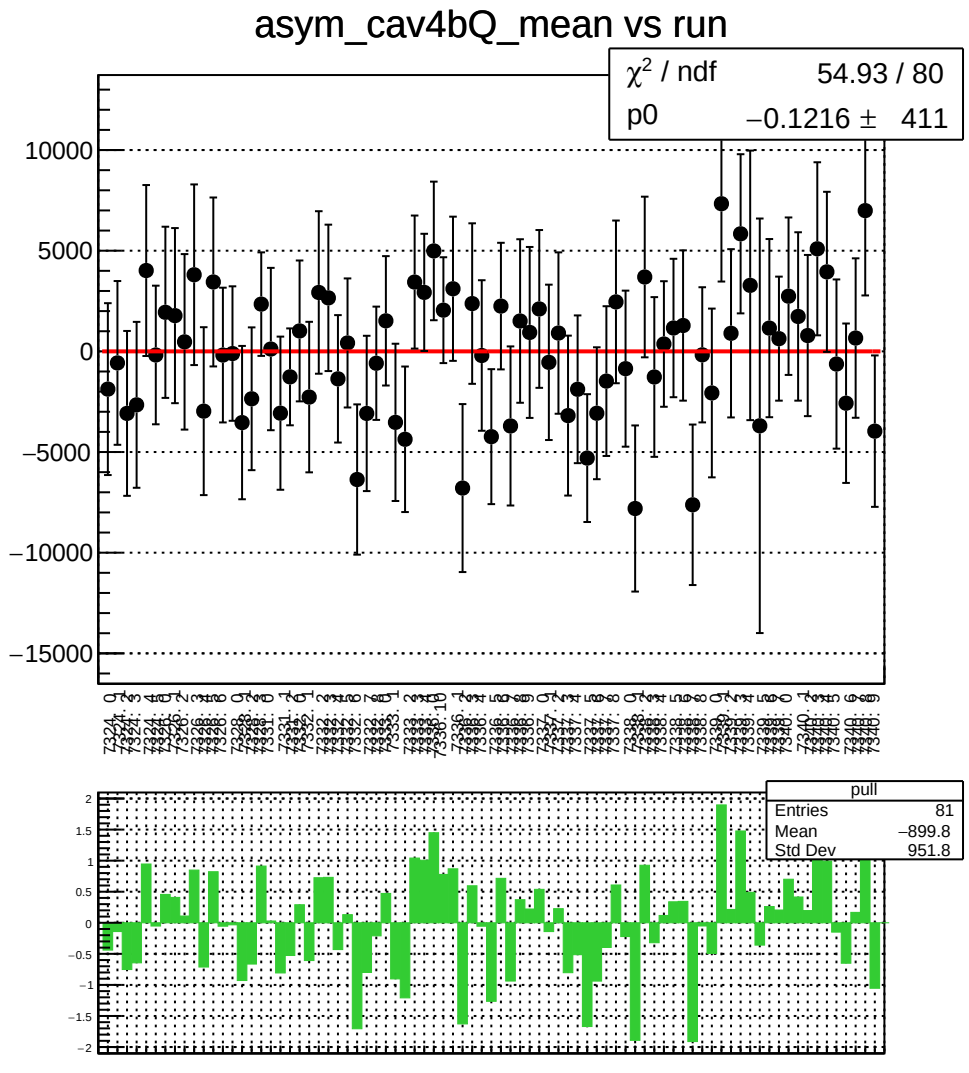

pull1D
Entries 81
Mean −0.001204
Std Dev 0.4139
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

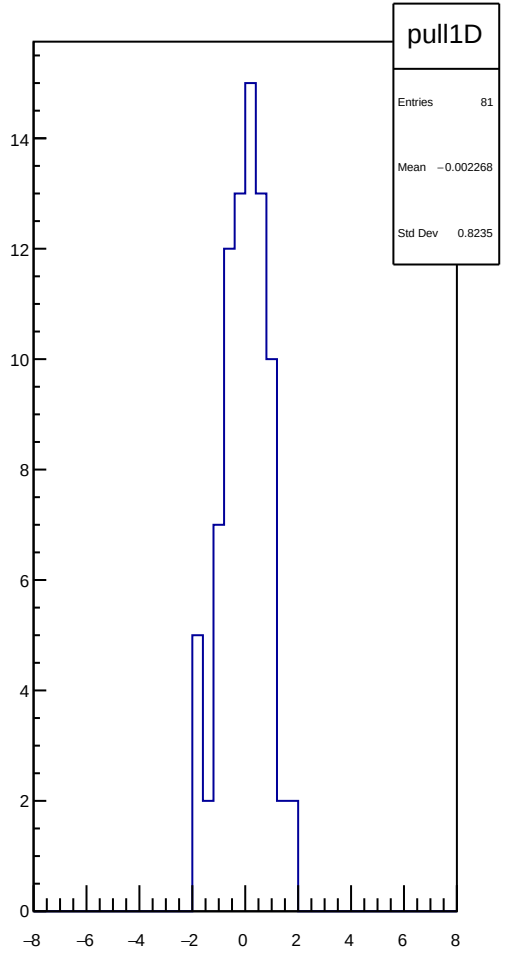

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2.623e+04 / 80
p0 176 ± 0.1421
900
800
700
600
500
400
300
200
100

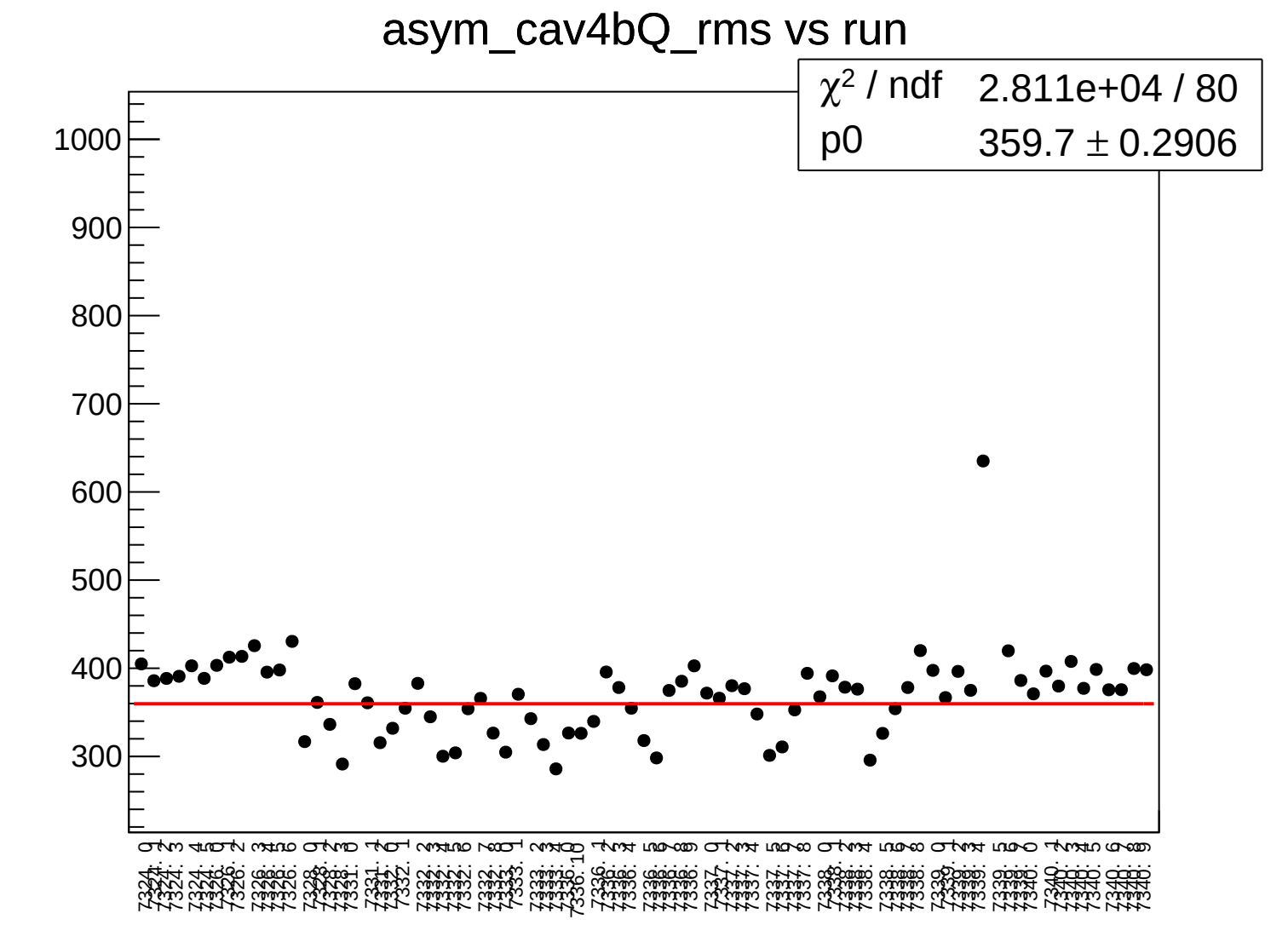

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.22 / 80
p0 −66.43 ± 203.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −60.8
Std Dev 109
1
0.5
0
−0.5
−1

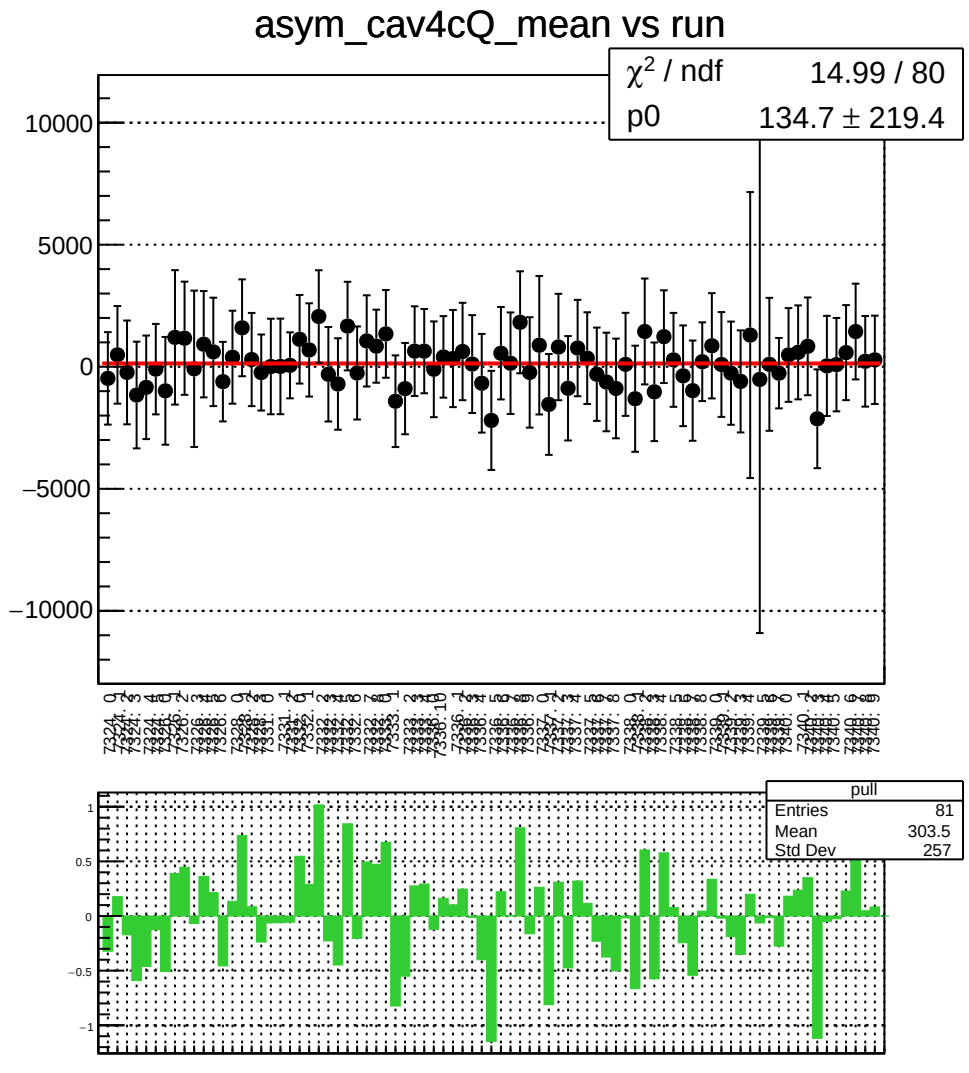

pull1D
Entries 81
Mean −0.005836
Std Dev 0.4334
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

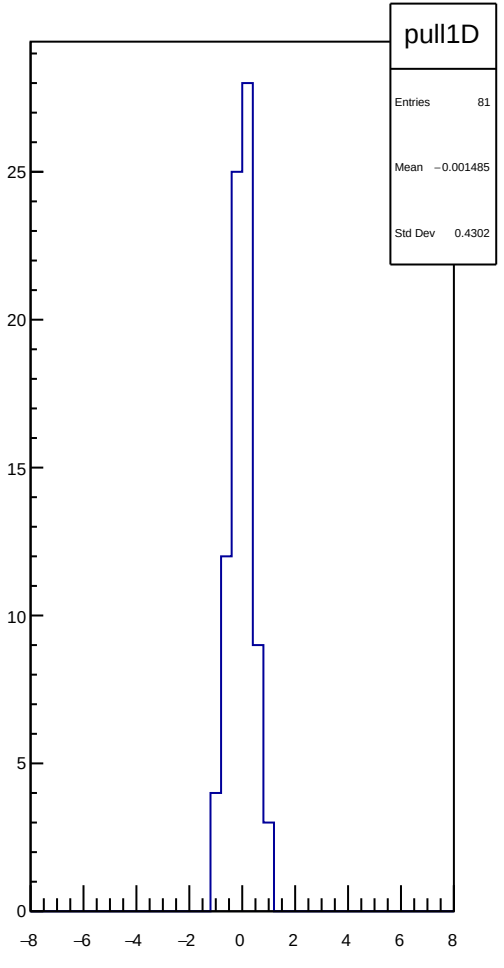

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.884e+04 / 80
p0 178.3 ± 0.1441
900
800
700
600
500
400
300
200
100

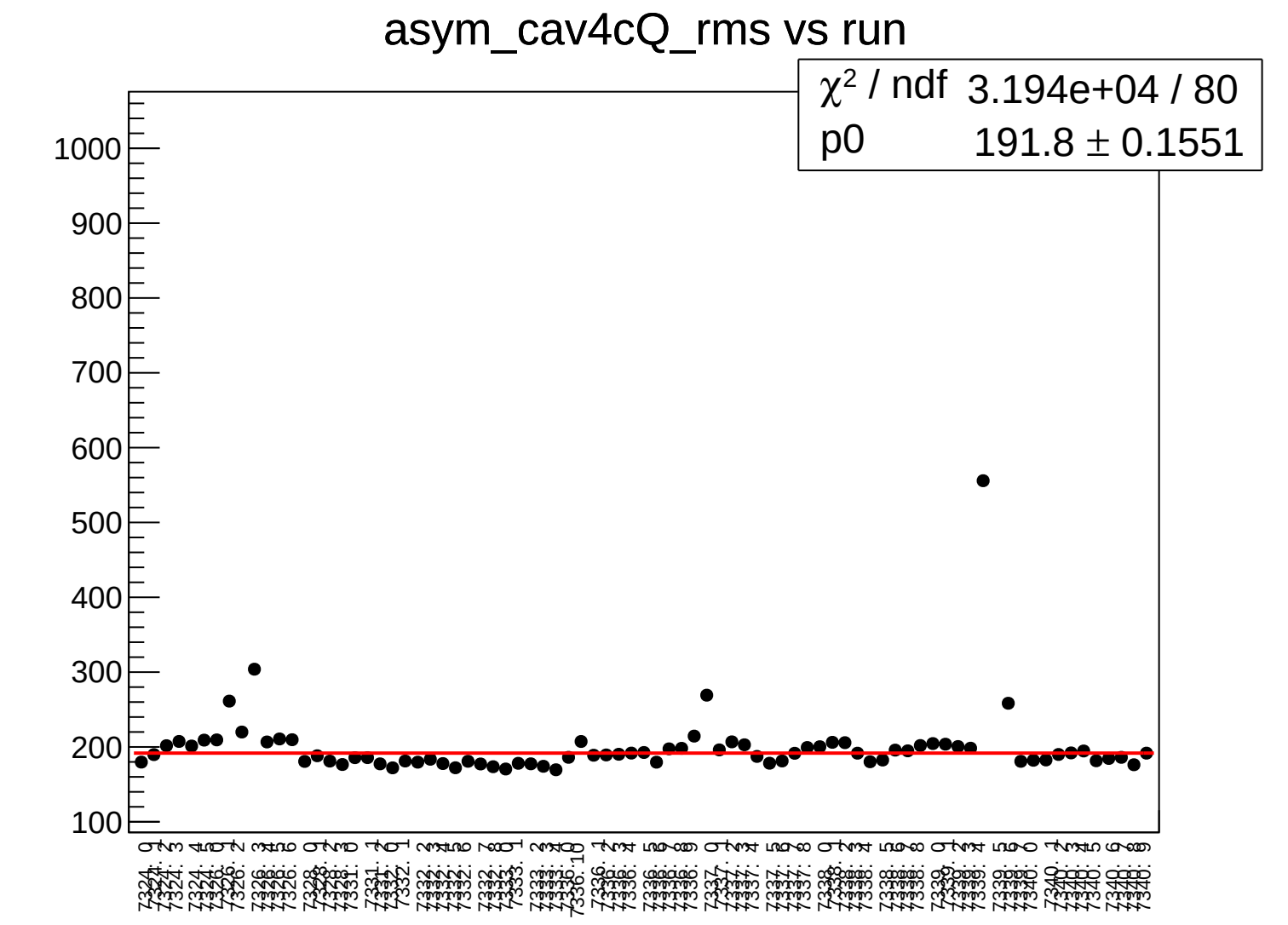

asym_cav4bQ_mean vs run
χ² / ndf 54.93 / 80
p0 −0.1216 ± 411
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −899.8
Std Dev 951.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

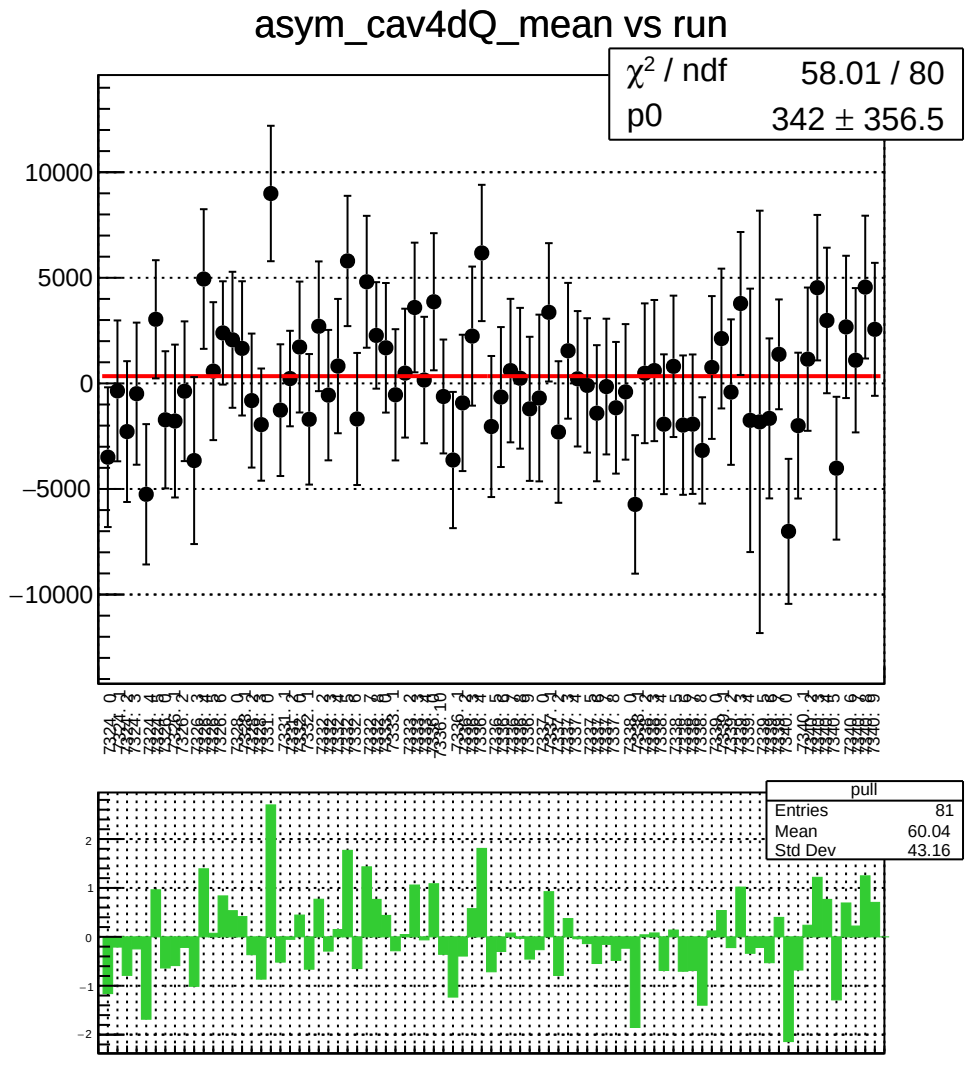

pull1D
Entries 81
Mean −0.002268
Std Dev 0.8235
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

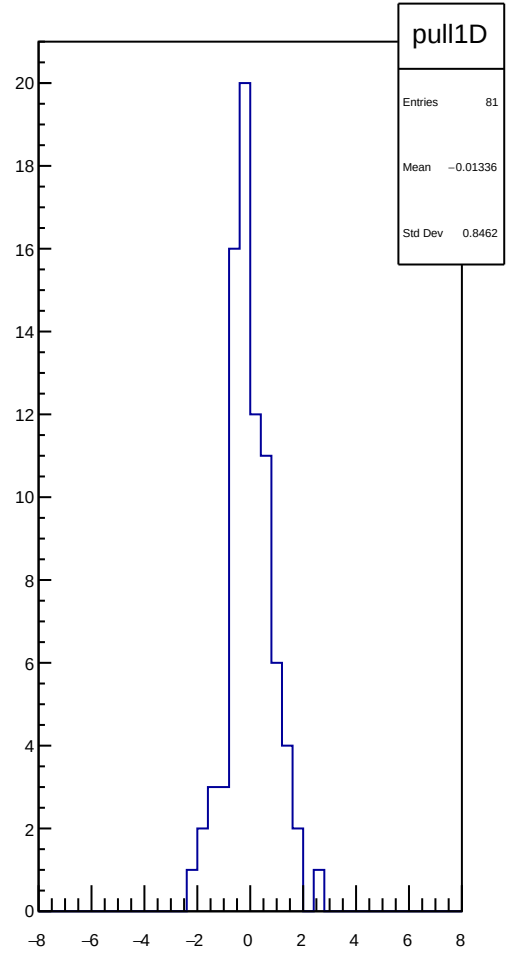

asym_cav4bQ_rms vs run
χ² / ndf 2.811e+04 / 80
p0 359.7 ± 0.2906
1000
900
800
700
600
500
400
300

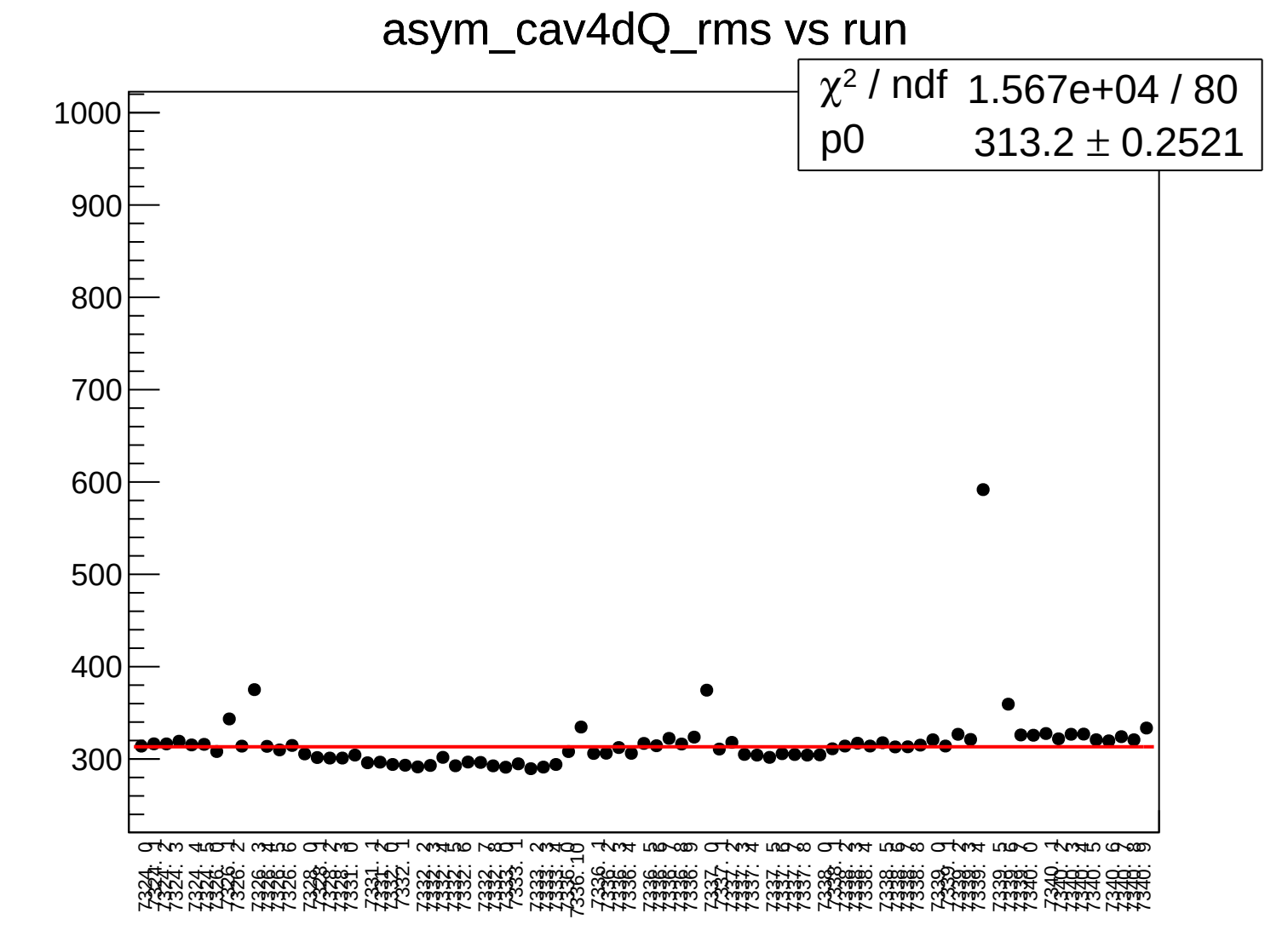

asym_cav4cQ_mean vs run
χ² / ndf 14.99 / 80
p0 134.7 ± 219.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 303.5
Std Dev 257
1
0.5
0
−0.5
−1

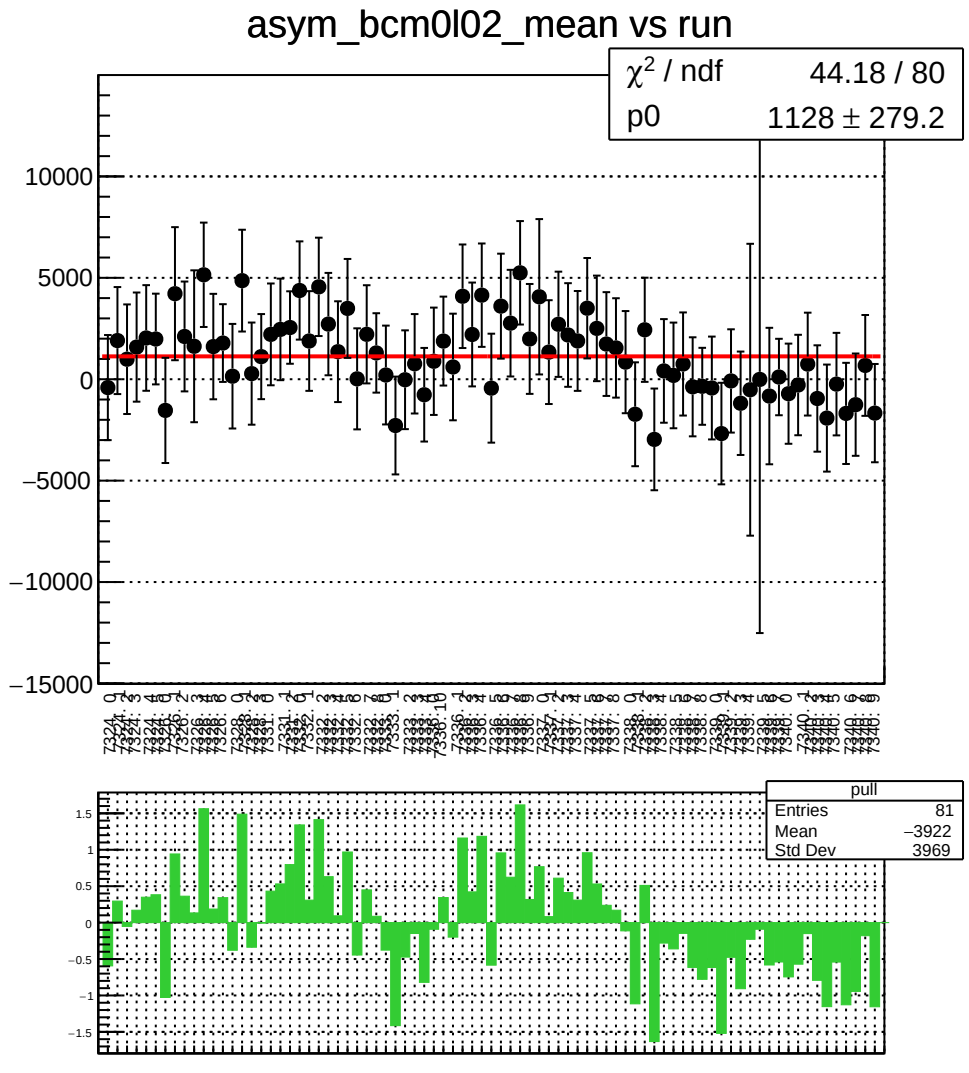

pull1D
Entries 81
Mean −0.001485
Std Dev 0.4302
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

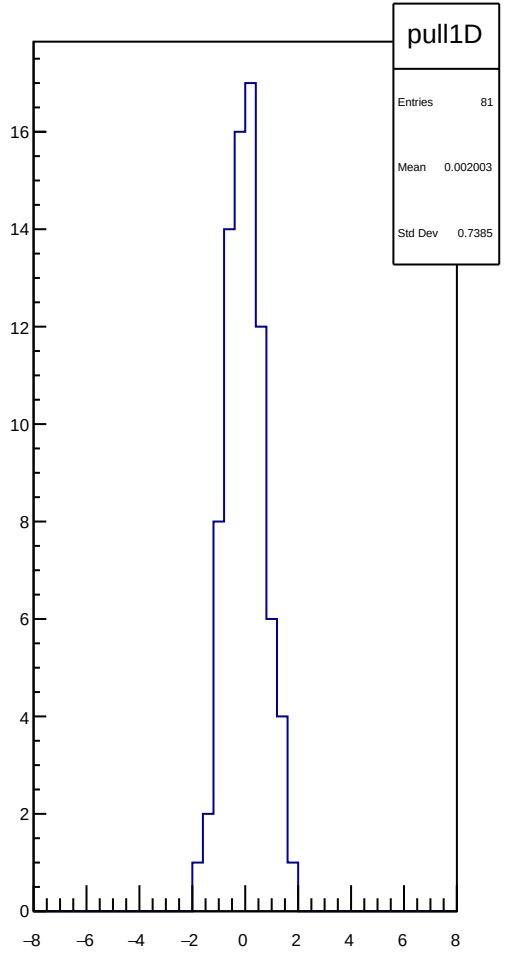

asym_cav4cQ_rms vs run
χ² / ndf 3.194e+04 / 80
p0 191.8 ± 0.1551
1000
900
800
700
600
500
400
300
200
100

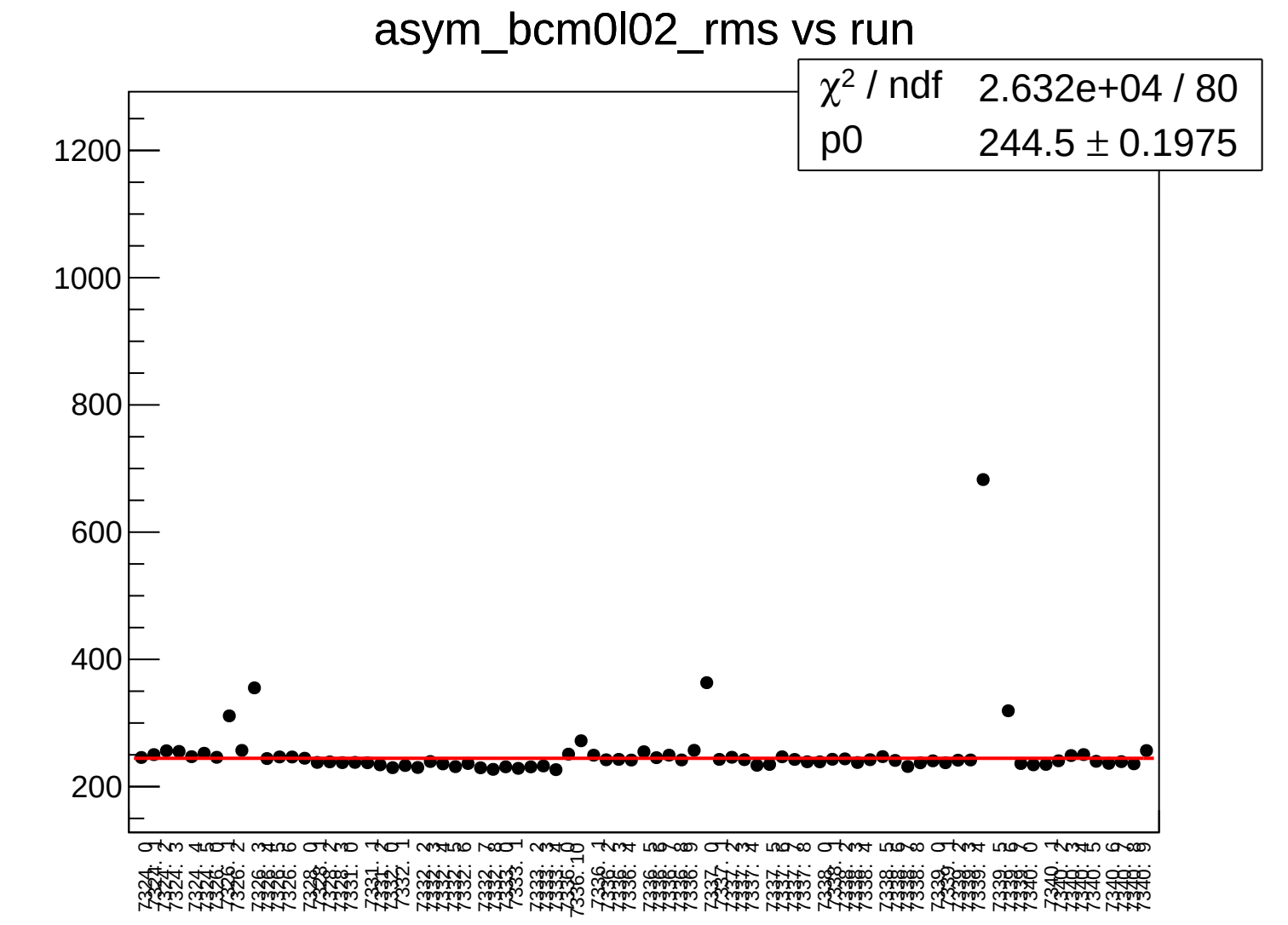

asym_cav4dQ_mean vs run
χ² / ndf 58.01 / 80
p0 342 ± 356.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 60.04
Std Dev 43.16
2
1
0
−1
−2

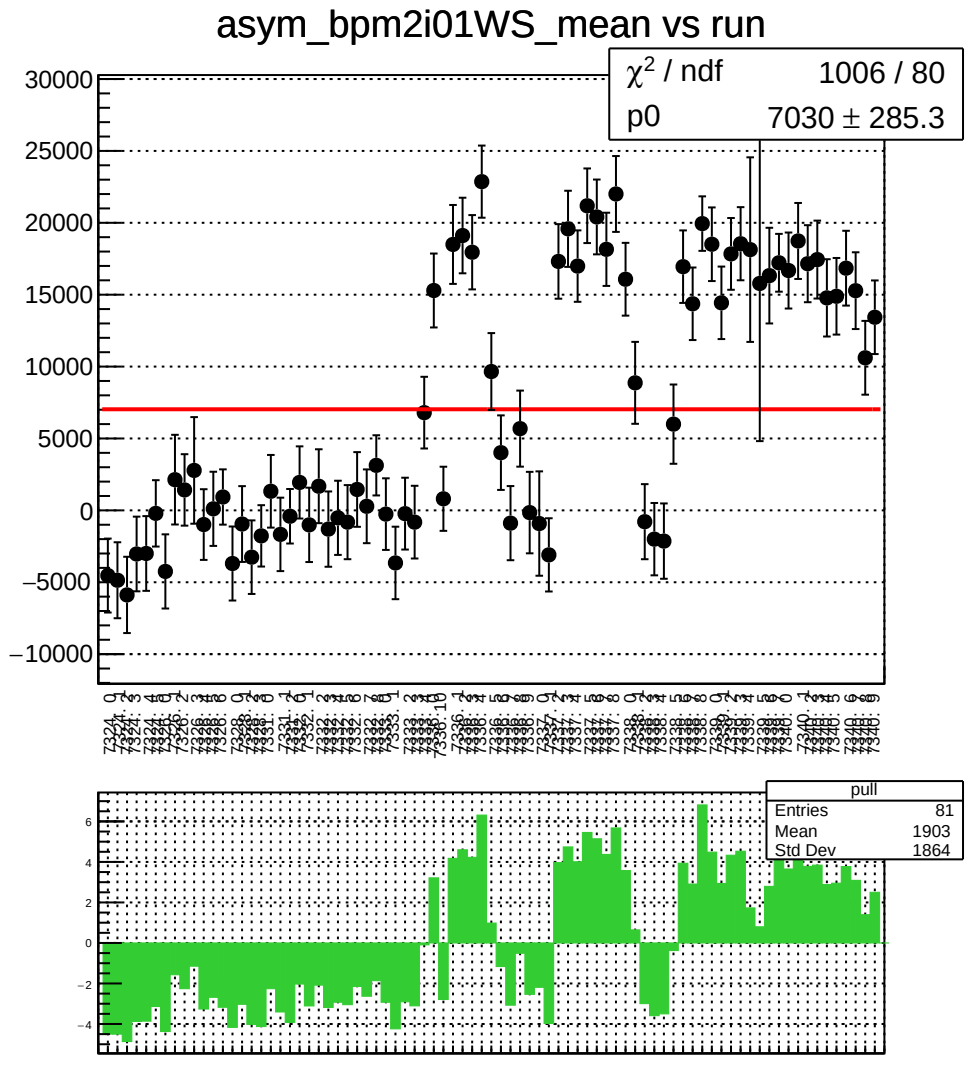

pull1D
Entries 81
Mean −0.01336
Std Dev 0.8462
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

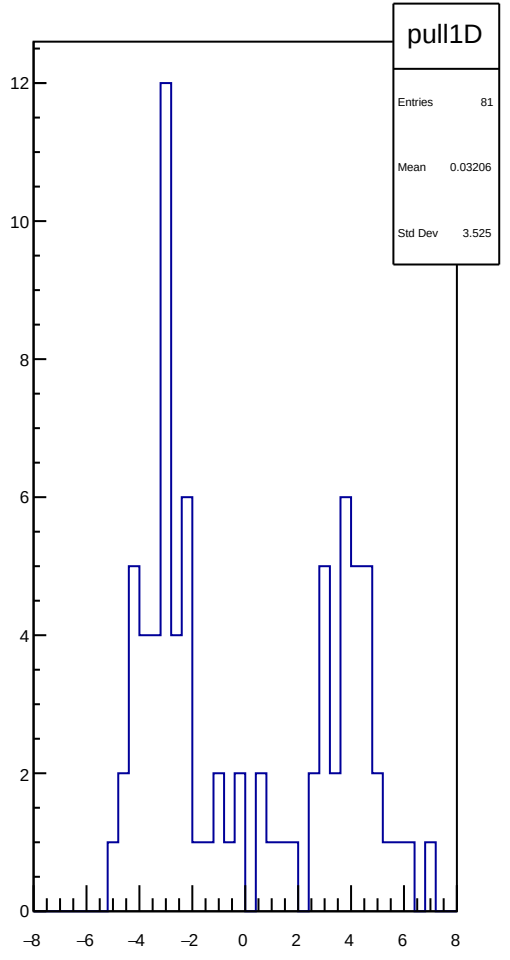

asym_cav4dQ_rms vs run
χ² / ndf 1.567e+04 / 80
p0 313.2 ± 0.2521
1000
900
800
700
600
500
400
300

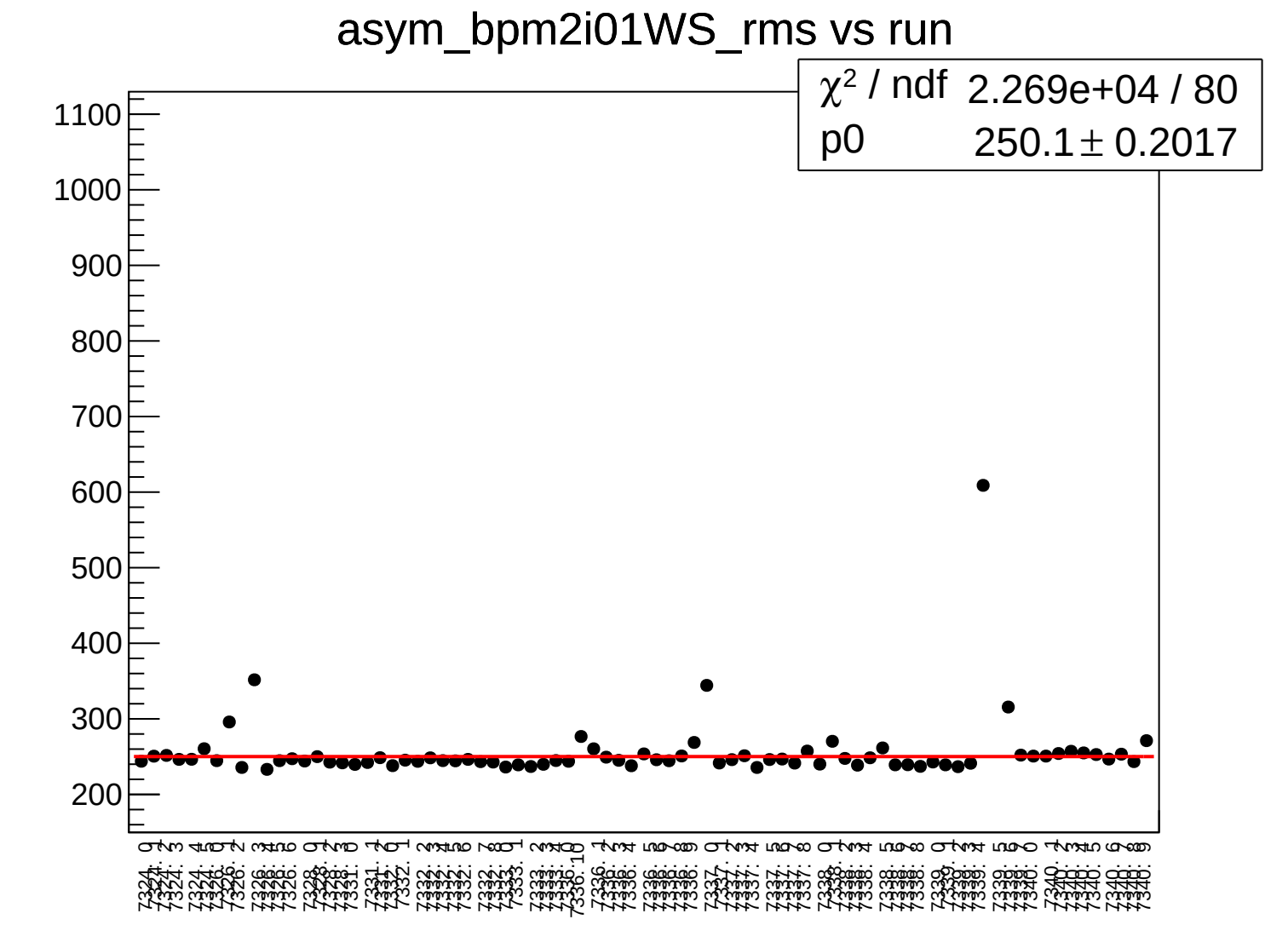

asym_bcm0l02_mean vs run
χ² / ndf 44.18 / 80
p0 1128 ± 279.2
pull
Entries 81
Mean −3922
Std Dev 3969

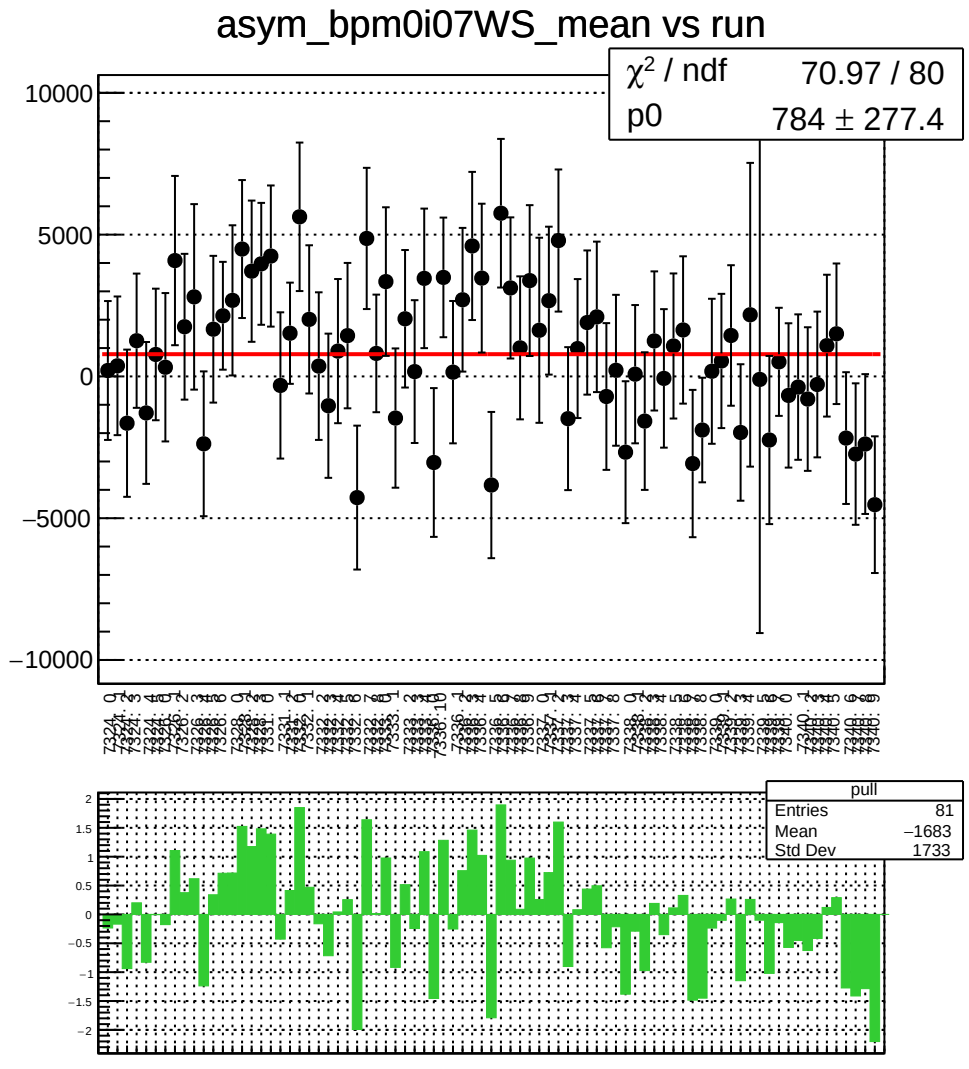

pull1D
Entries 81
Mean 0.002003
Std Dev 0.7385

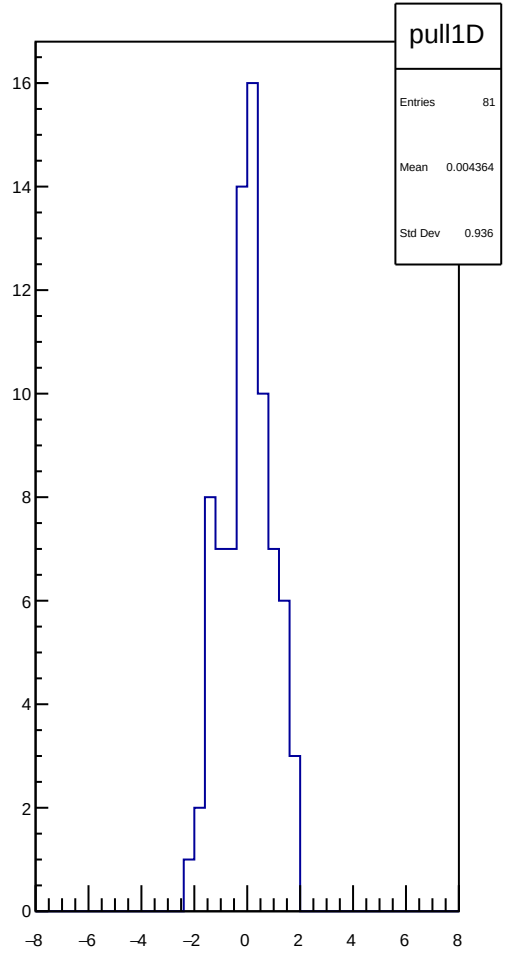

asym_bcm0l02_rms vs run
χ^2 / ndf 2.632e+04 / 80
p0 244.5 ± 0.1975
1200
1000
800
600
400
200

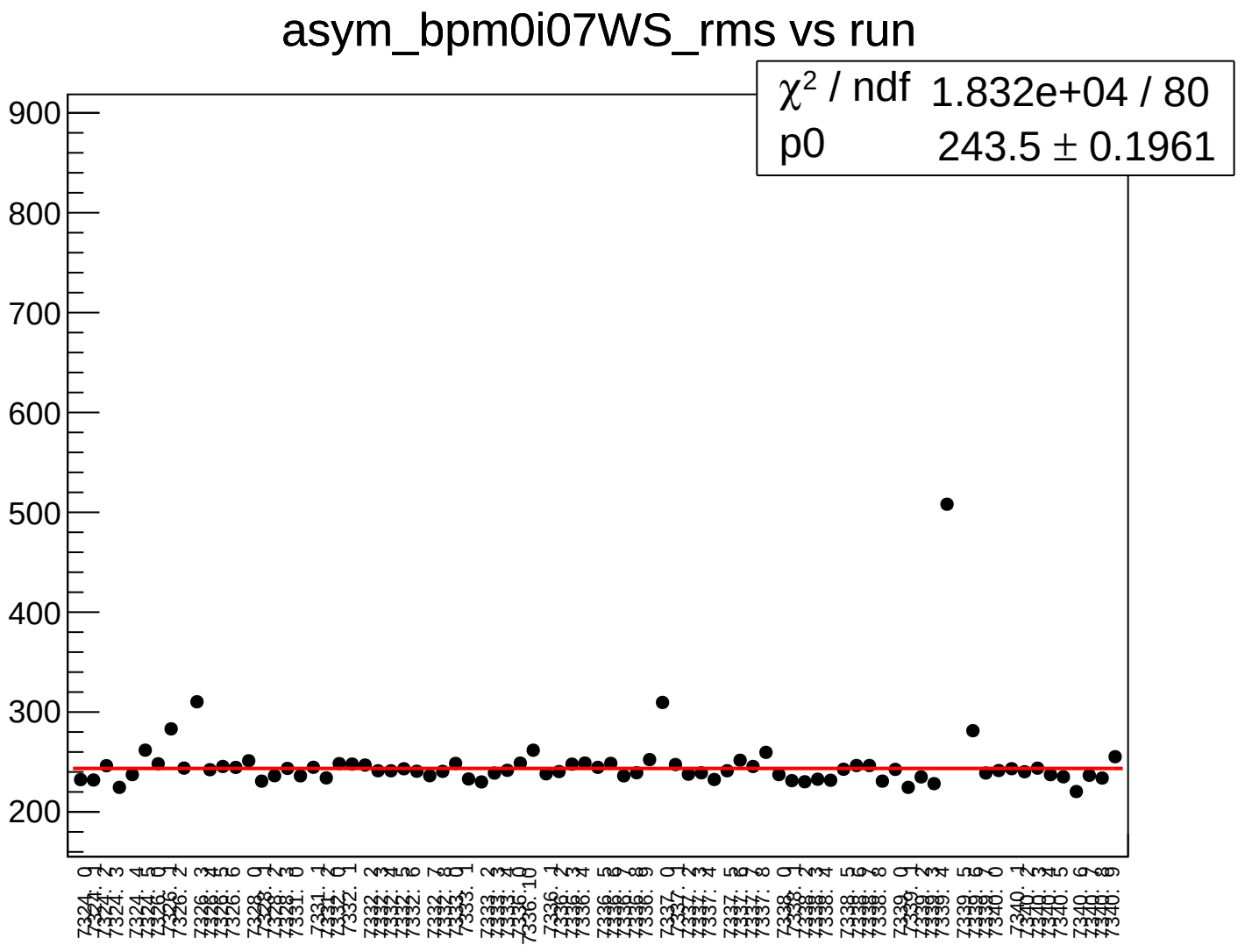

asym_bpm2i01WS_mean vs run
χ² / ndf 1006 / 80
p0 7030 ± 285.3
pull
Entries 81
Mean 1903
Std Dev 1864

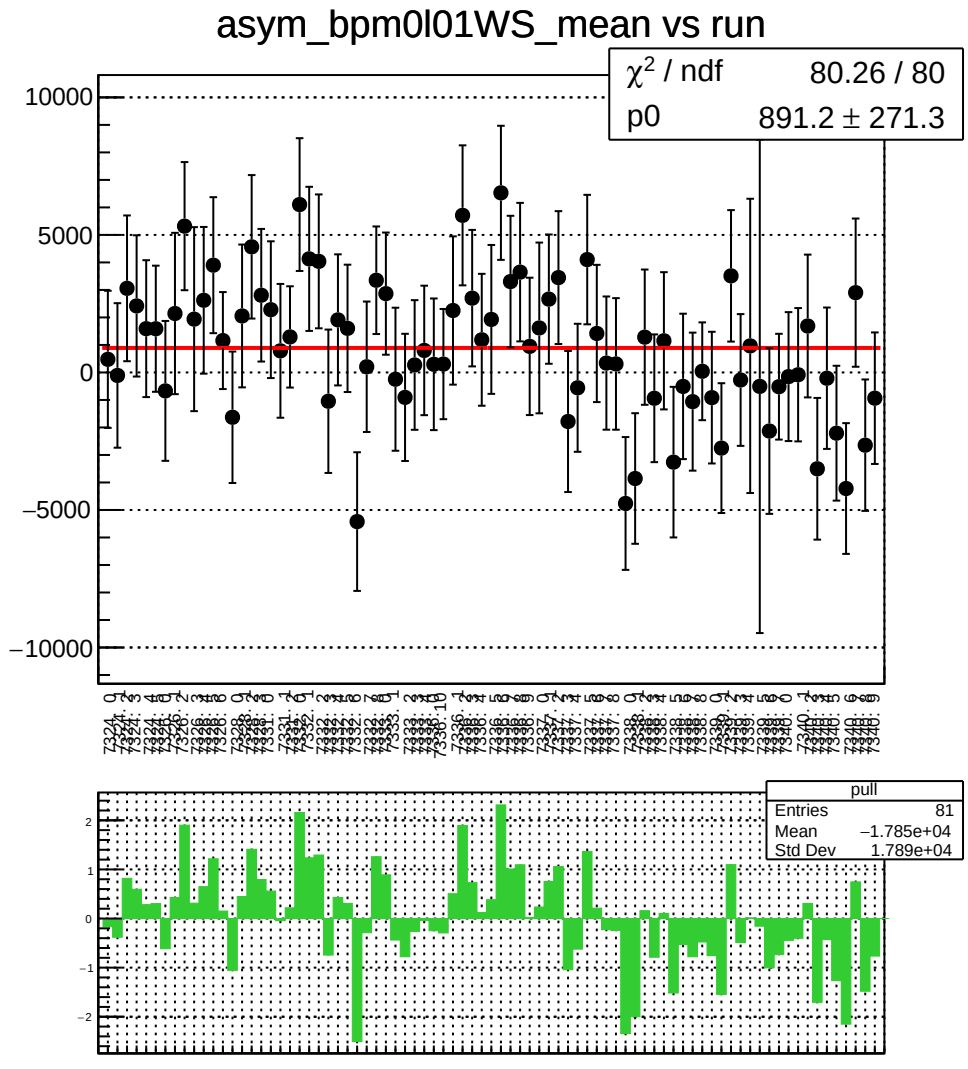

pull1D
Entries 81
Mean 0.03206
Std Dev 3.525

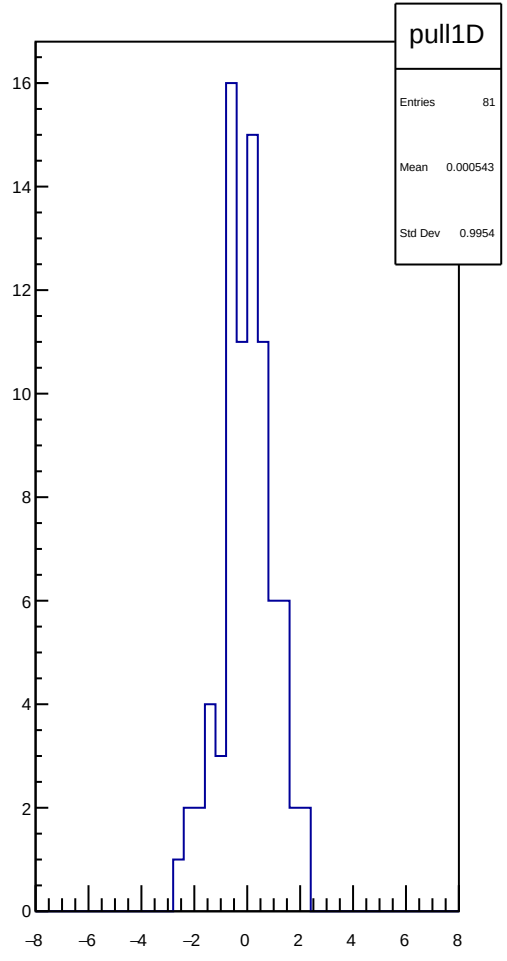

asym_bpm2i01WS_rms vs run
χ² / ndf 2.269e+04 / 80
p0 250.1 ± 0.2017
1100
1000
900
800
700
600
500
400
300
200

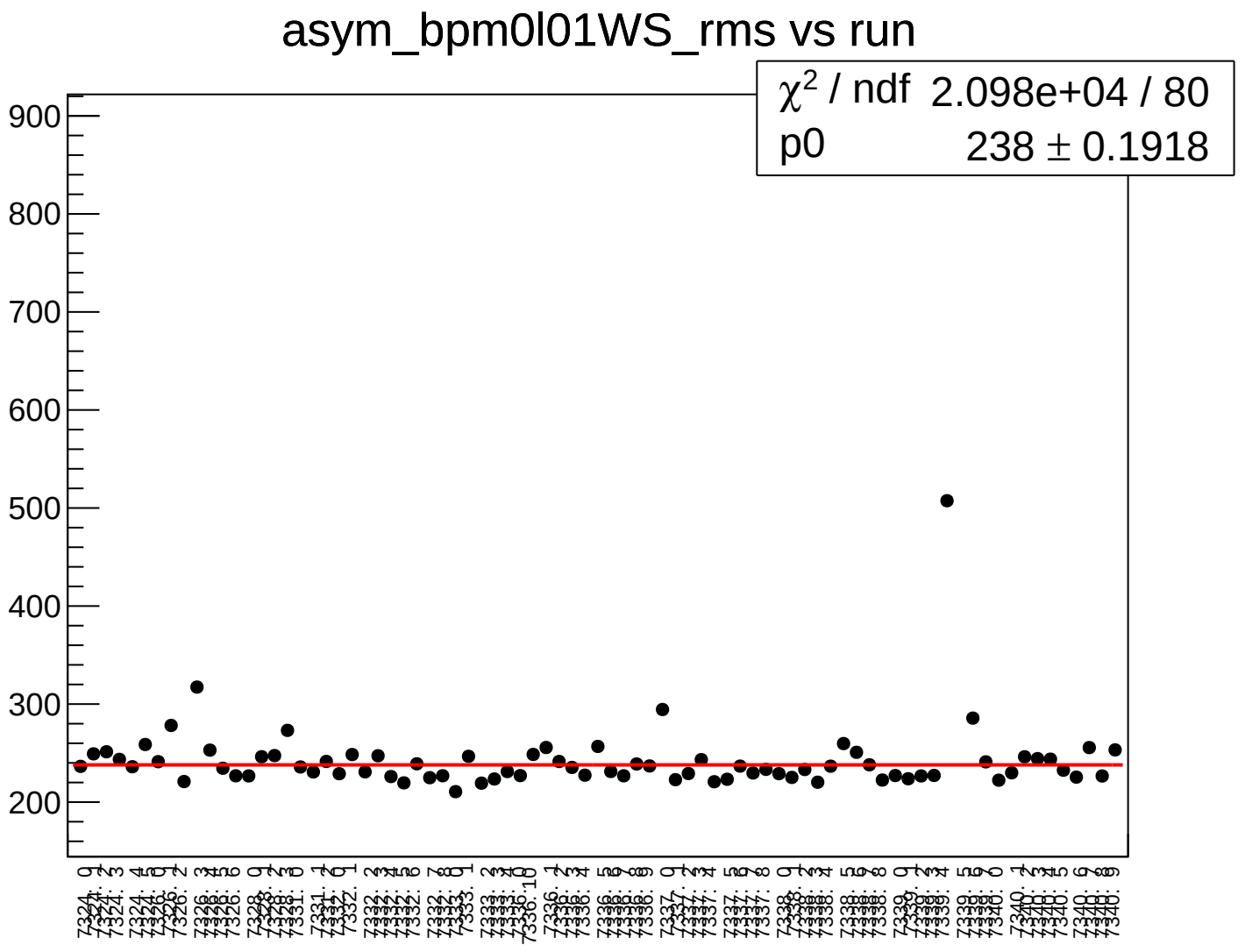

asym_bpm0i07WS_mean vs run
χ² / ndf 70.97 / 80
p0 784 ± 277.4
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −1683
Std Dev 1733
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

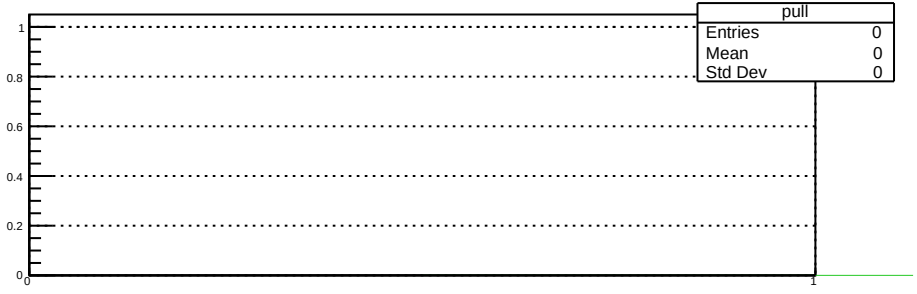

pull1D
Entries 81
Mean 0.004364
Std Dev 0.936
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

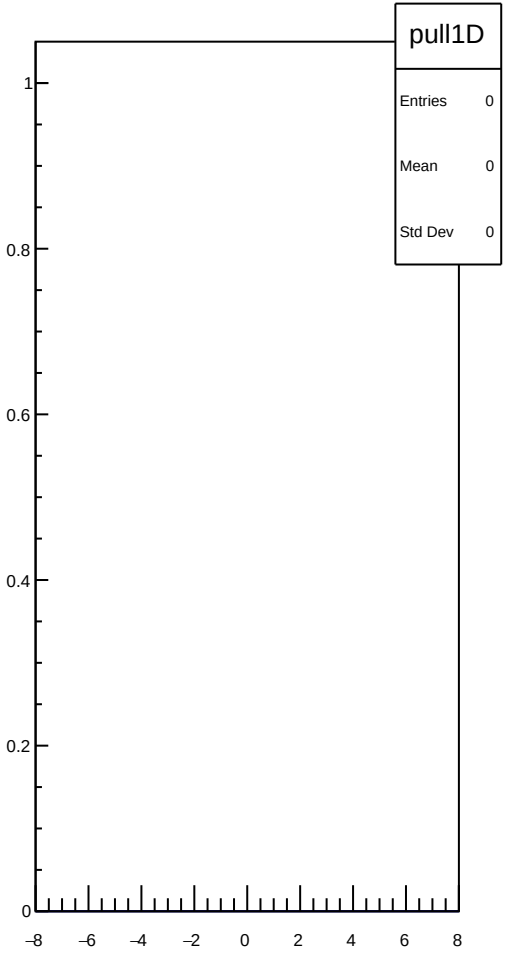

asym_bpm0i07WS_rms vs run
χ² / ndf 1.832e+04 / 80
p0 243.5 ± 0.1961
900
800
700
600
500
400
300
200

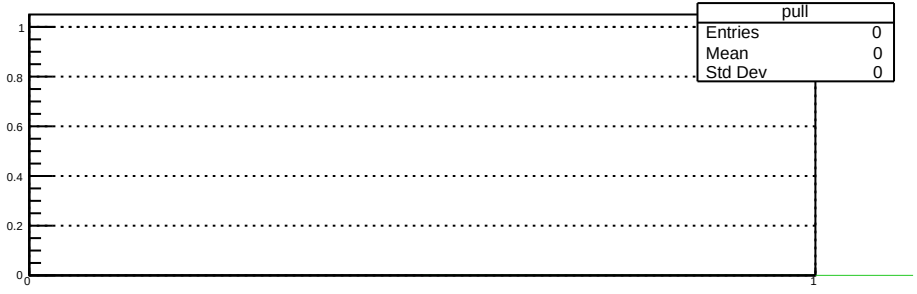

asym_bpm0l01WS_mean vs run
χ² / ndf 80.26 / 80
p0 891.2 ± 271.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean −1.785e+04
Std Dev 1.789e+04
2
1
0
−1
−2

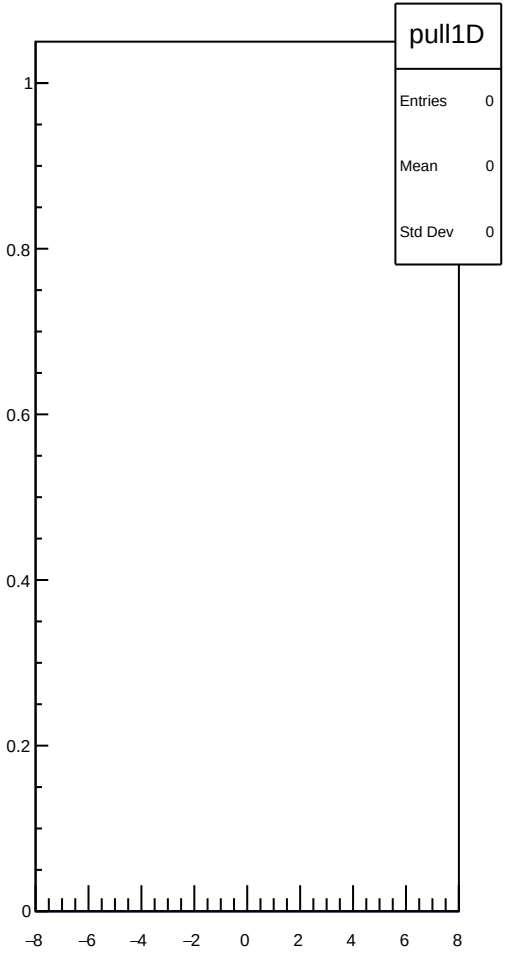

pull1D
Entries 81
Mean 0.000543
Std Dev 0.9954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

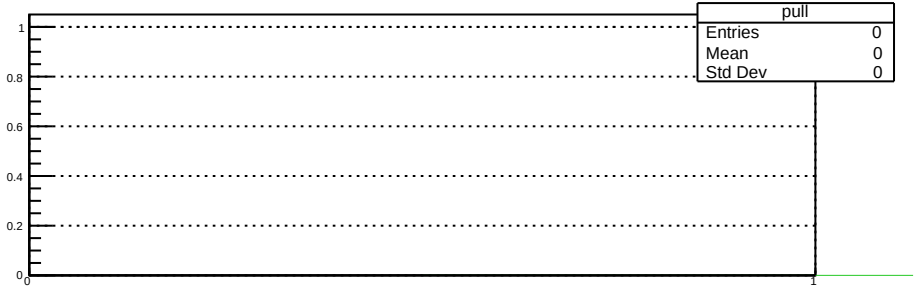

asym_bpm0l01WS_rms vs run
χ^2 / ndf 2.098e+04 / 80
p0 238 ± 0.1918
900
800
700
600
500
400
300
200

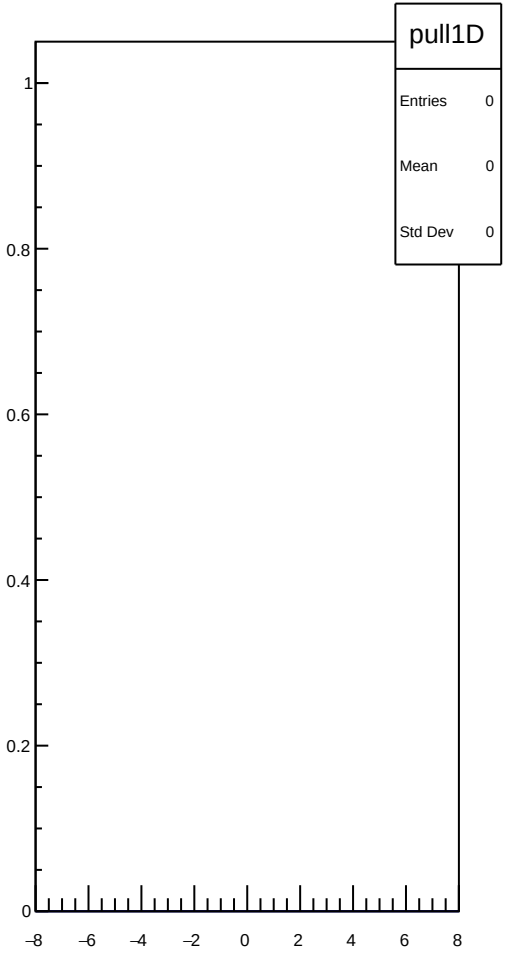

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

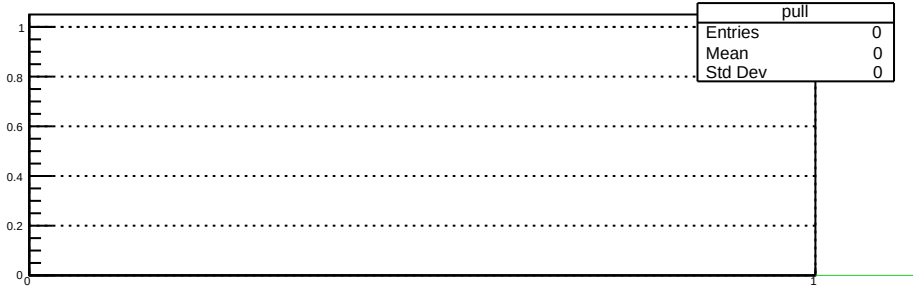

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

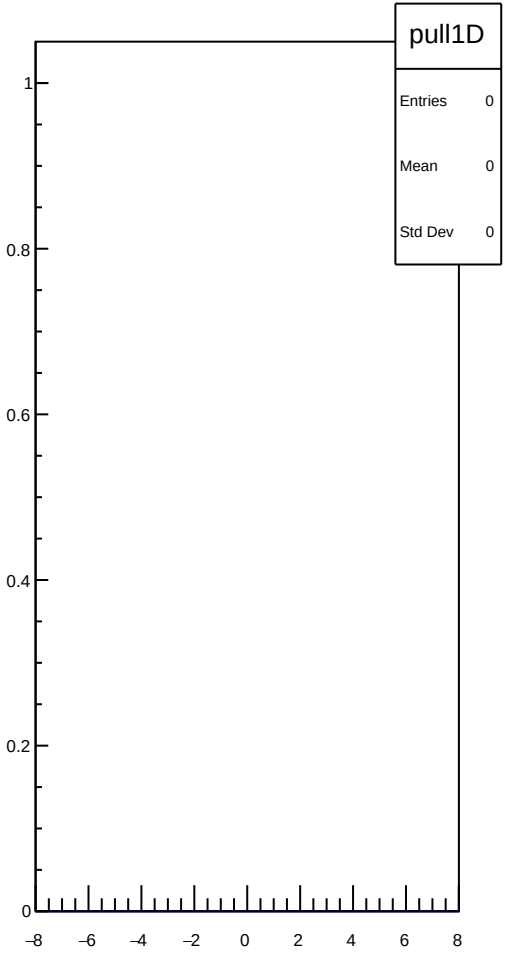

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

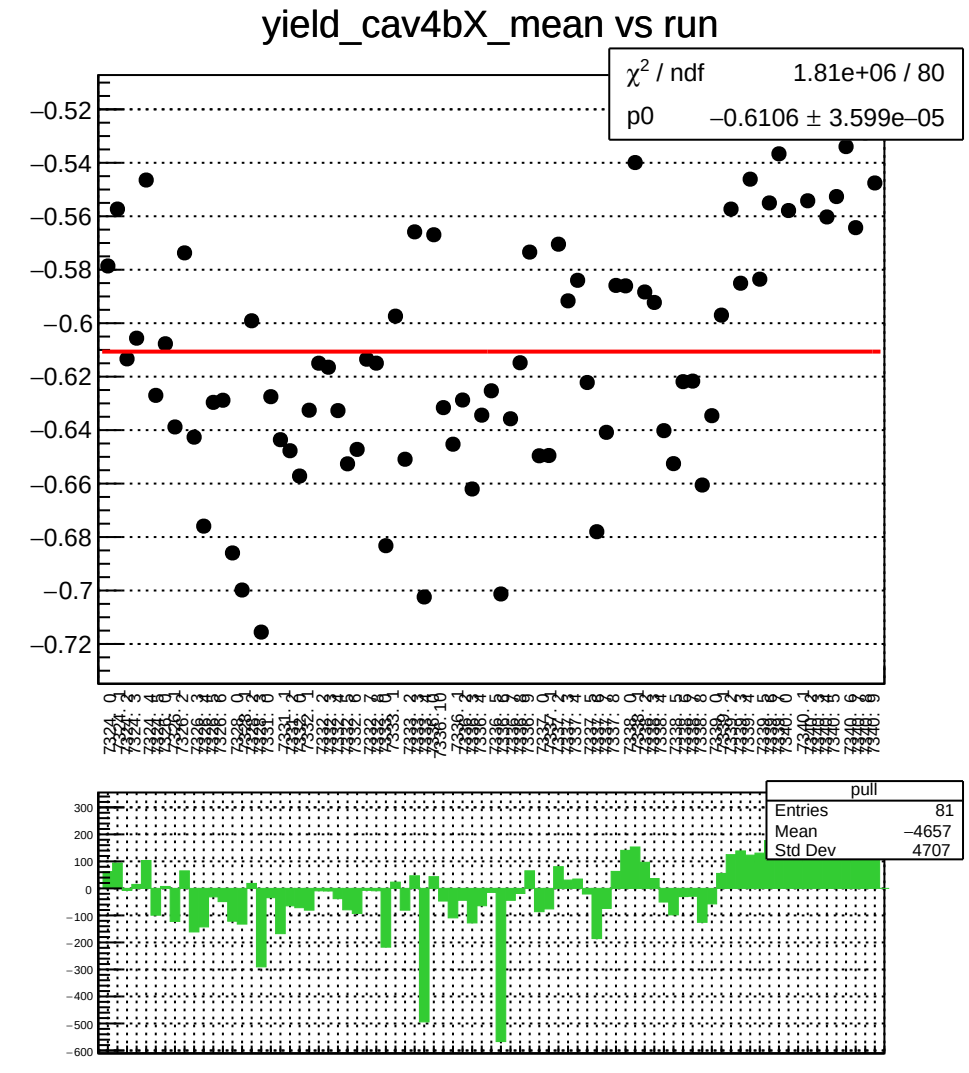

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

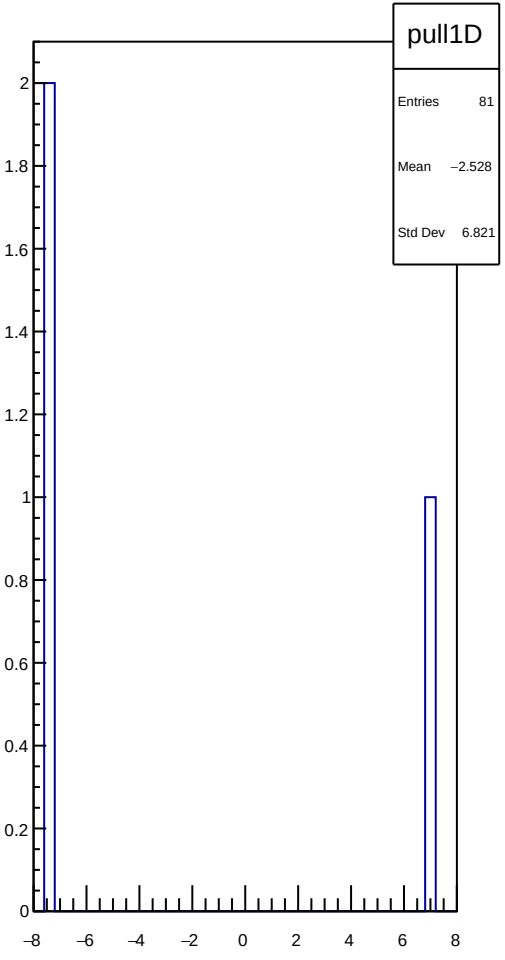

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

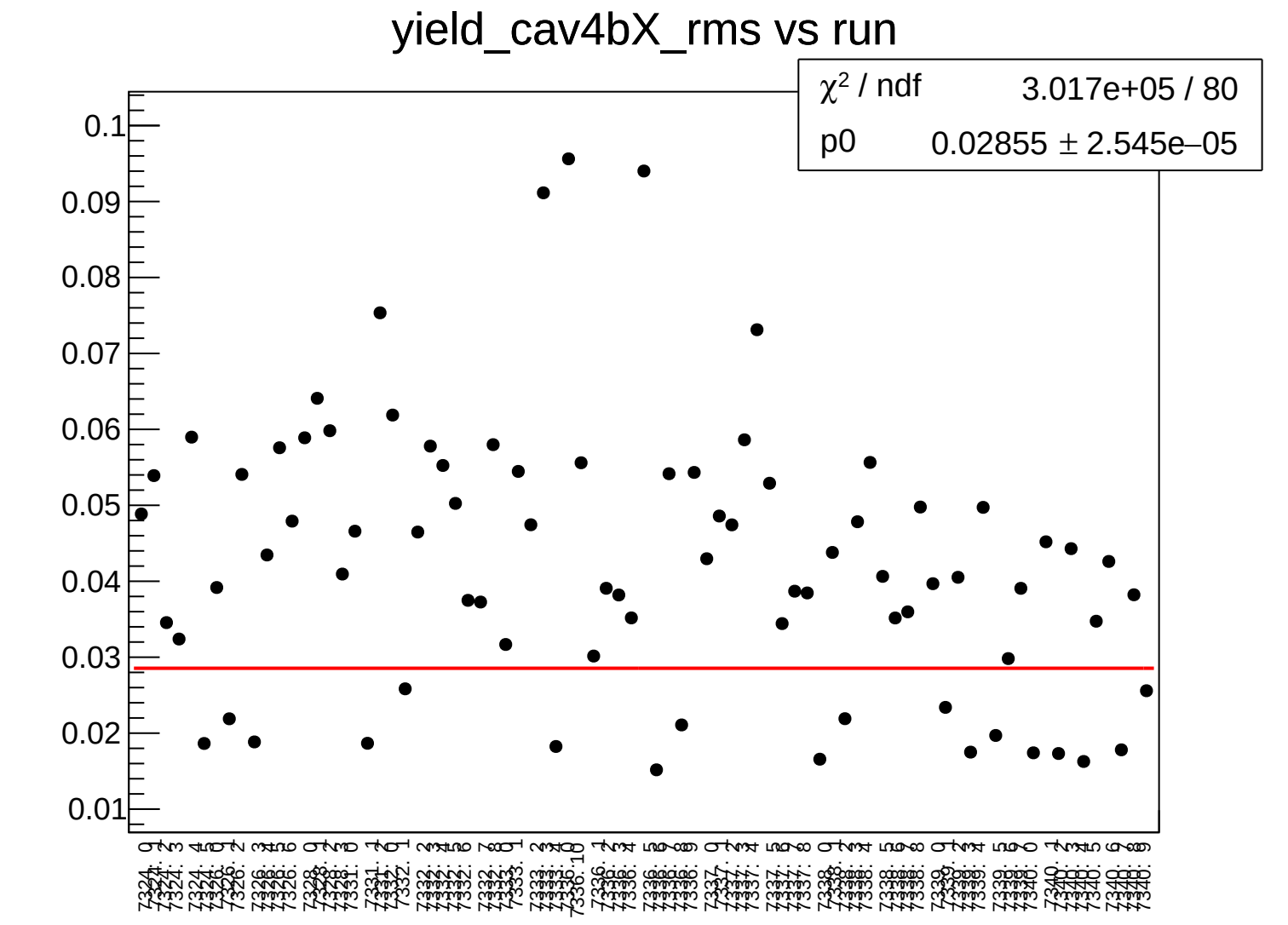

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

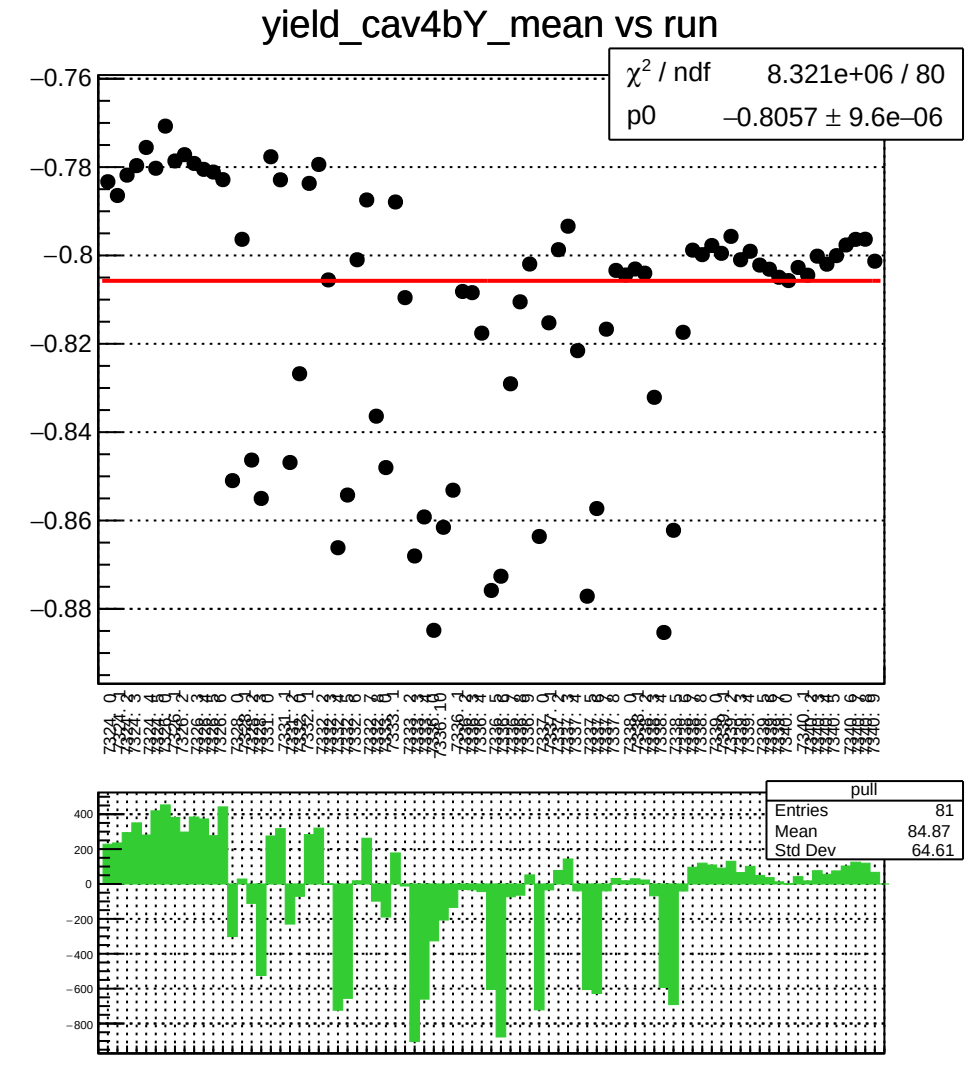

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

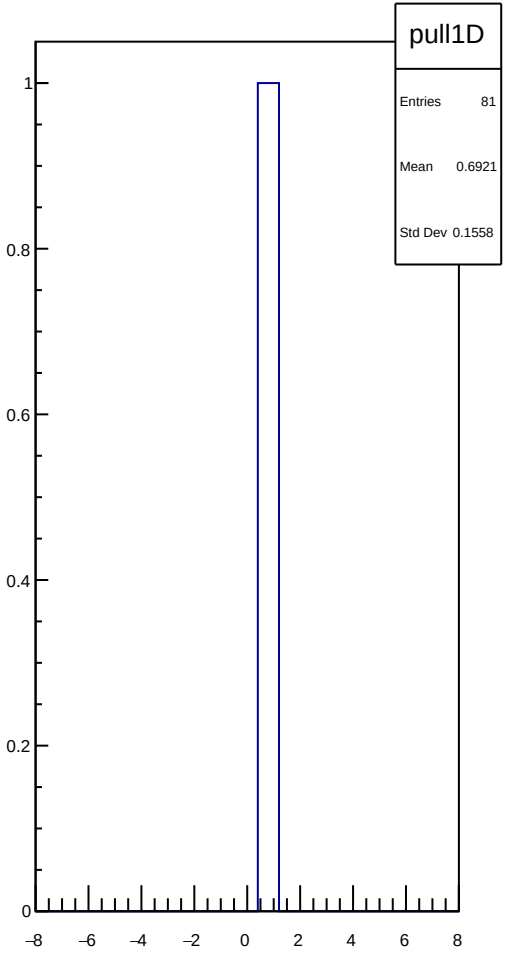

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

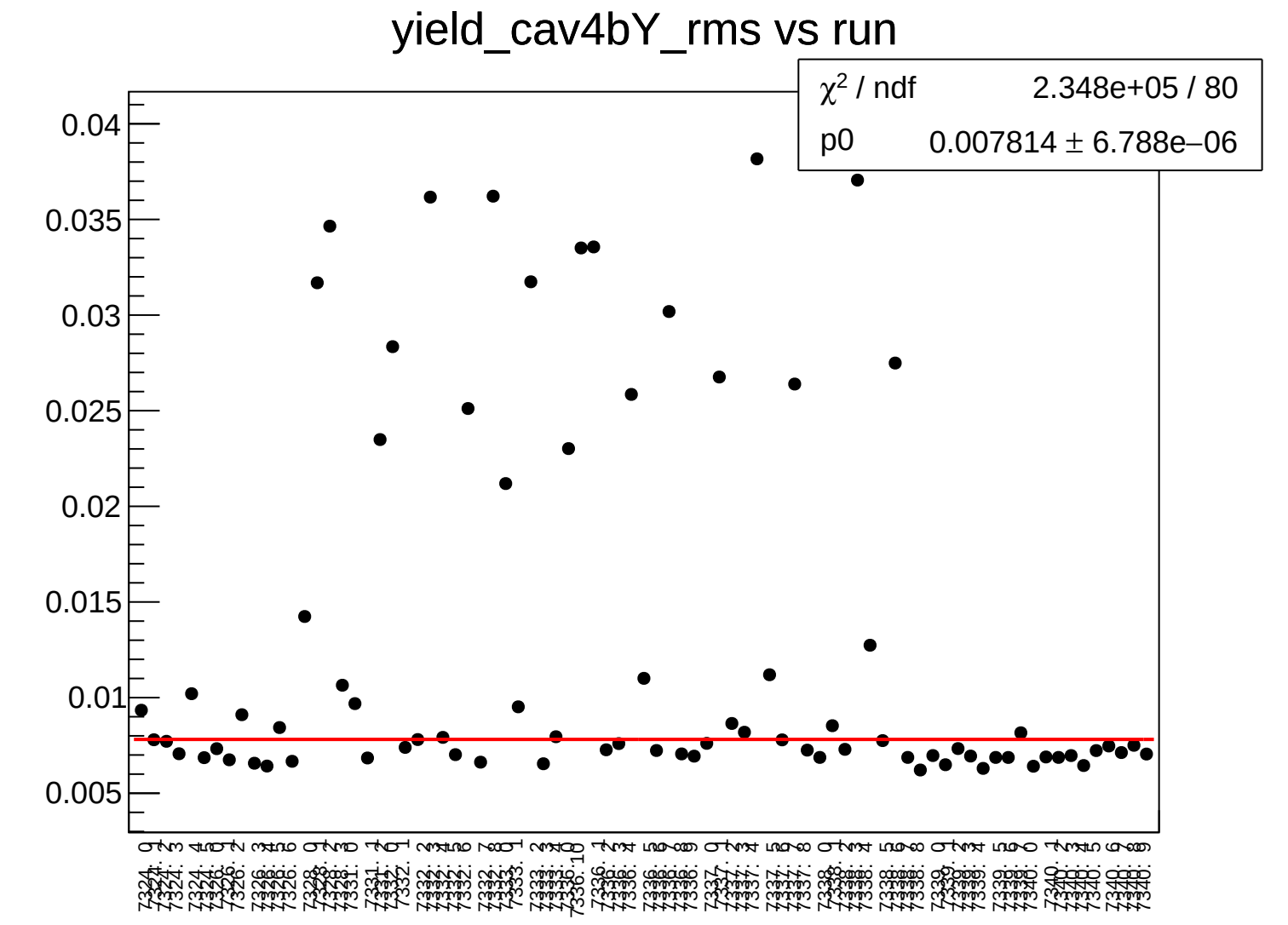

yield_cav4bX_mean vs run
χ² / ndf 1.81e+06 / 80
p0 −0.6106 ± 3.599e−05
pull
Entries 81
Mean −4657
Std Dev 4707

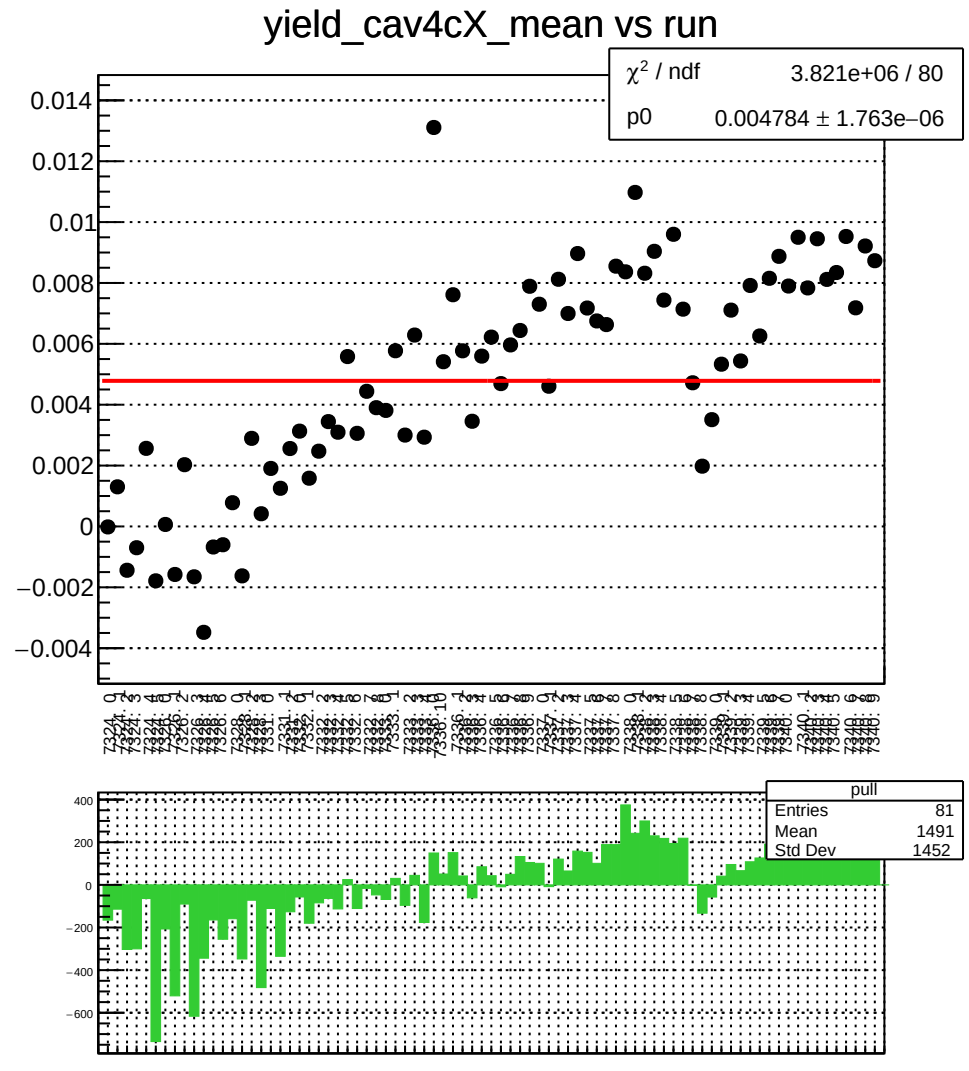

pull1D
Entries 81
Mean −2.528
Std Dev 6.821

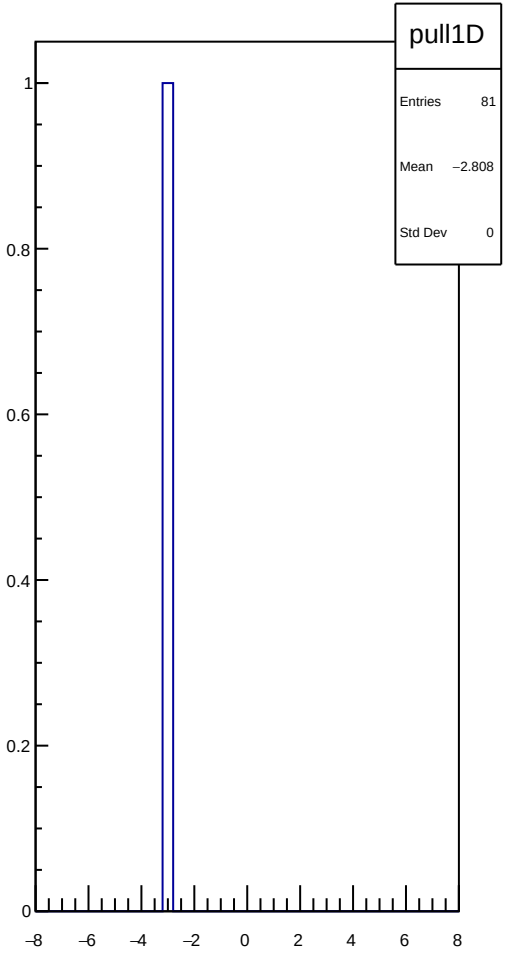

yield_cav4bX_rms vs run
χ² / ndf 3.017e+05 / 80
p0 0.02855 ± 2.545e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

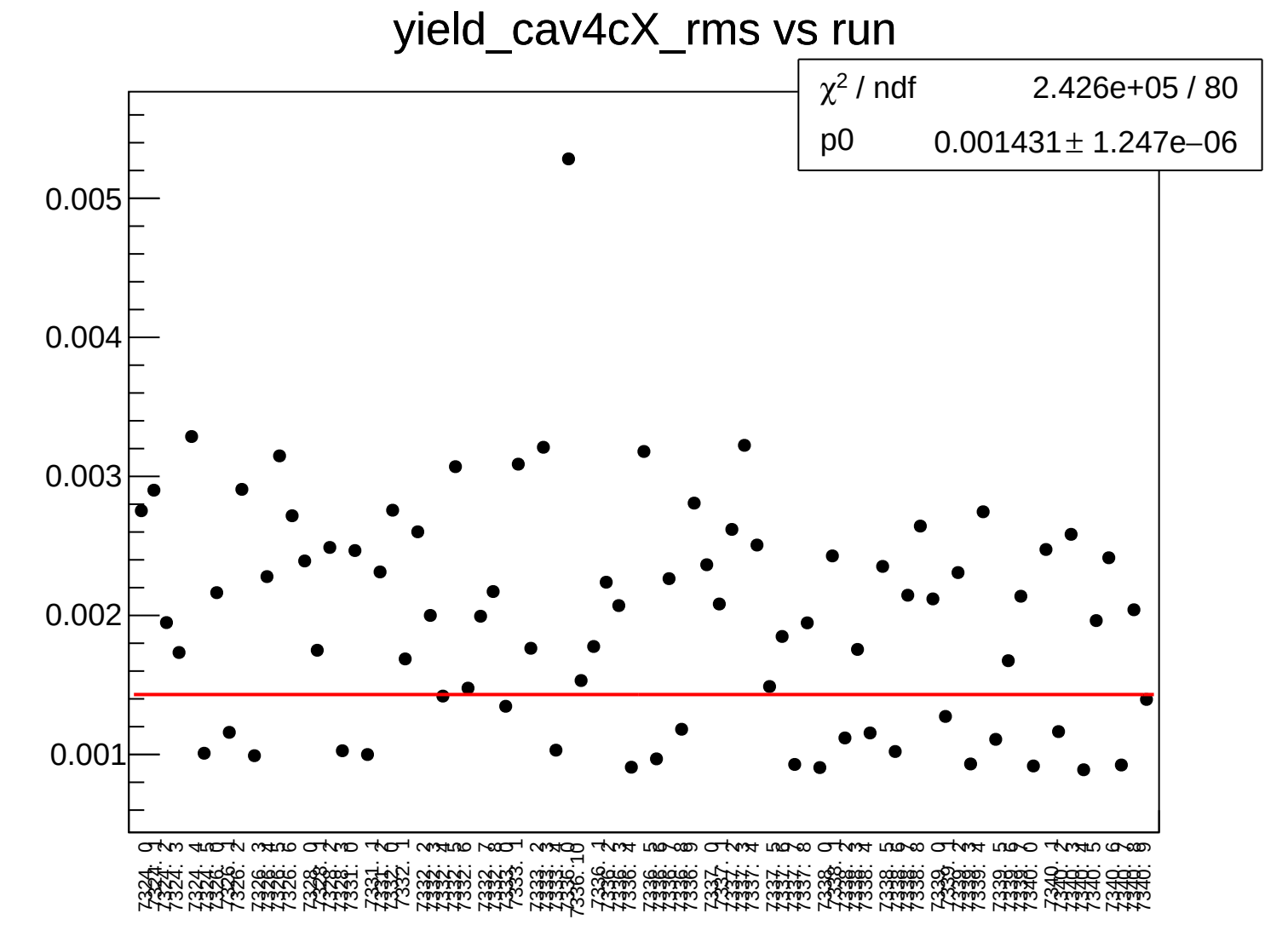

yield_cav4bY_mean vs run
χ² / ndf 8.321e+06 / 80
p0 –0.8057 ± 9.6e–06
–0.76
–0.78
–0.8
–0.82
–0.84
–0.86
–0.88
pull
Entries 81
Mean 84.87
Std Dev 64.61
400
200
0
–200
–400
–600
–800

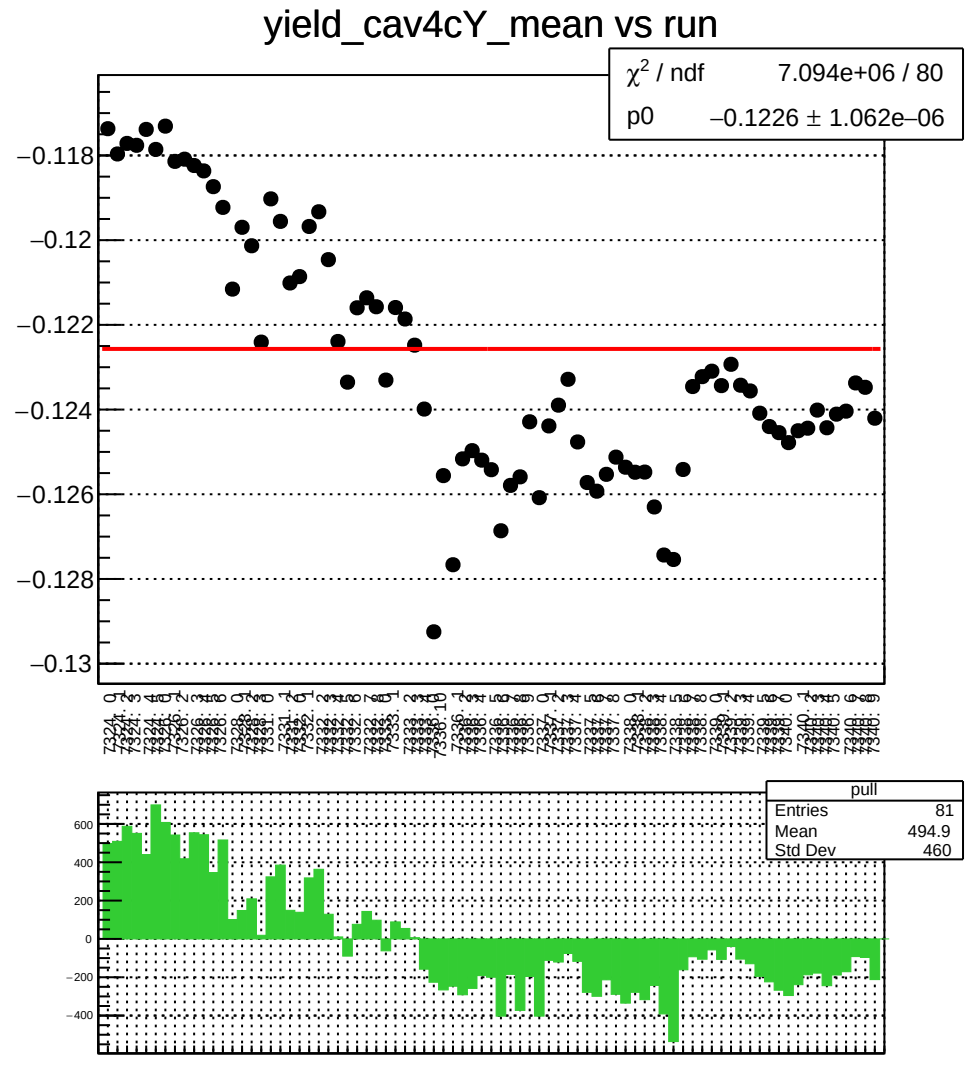

pull1D
Entries 81
Mean 0.6921
Std Dev 0.1558
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

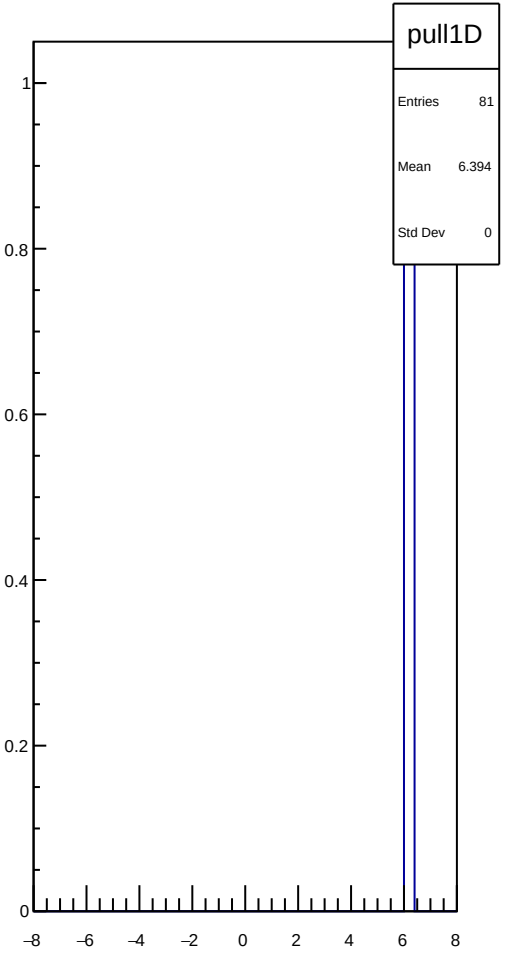

yield_cav4bY_rms vs run
χ² / ndf 2.348e+05 / 80
p0 0.007814 ± 6.788e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

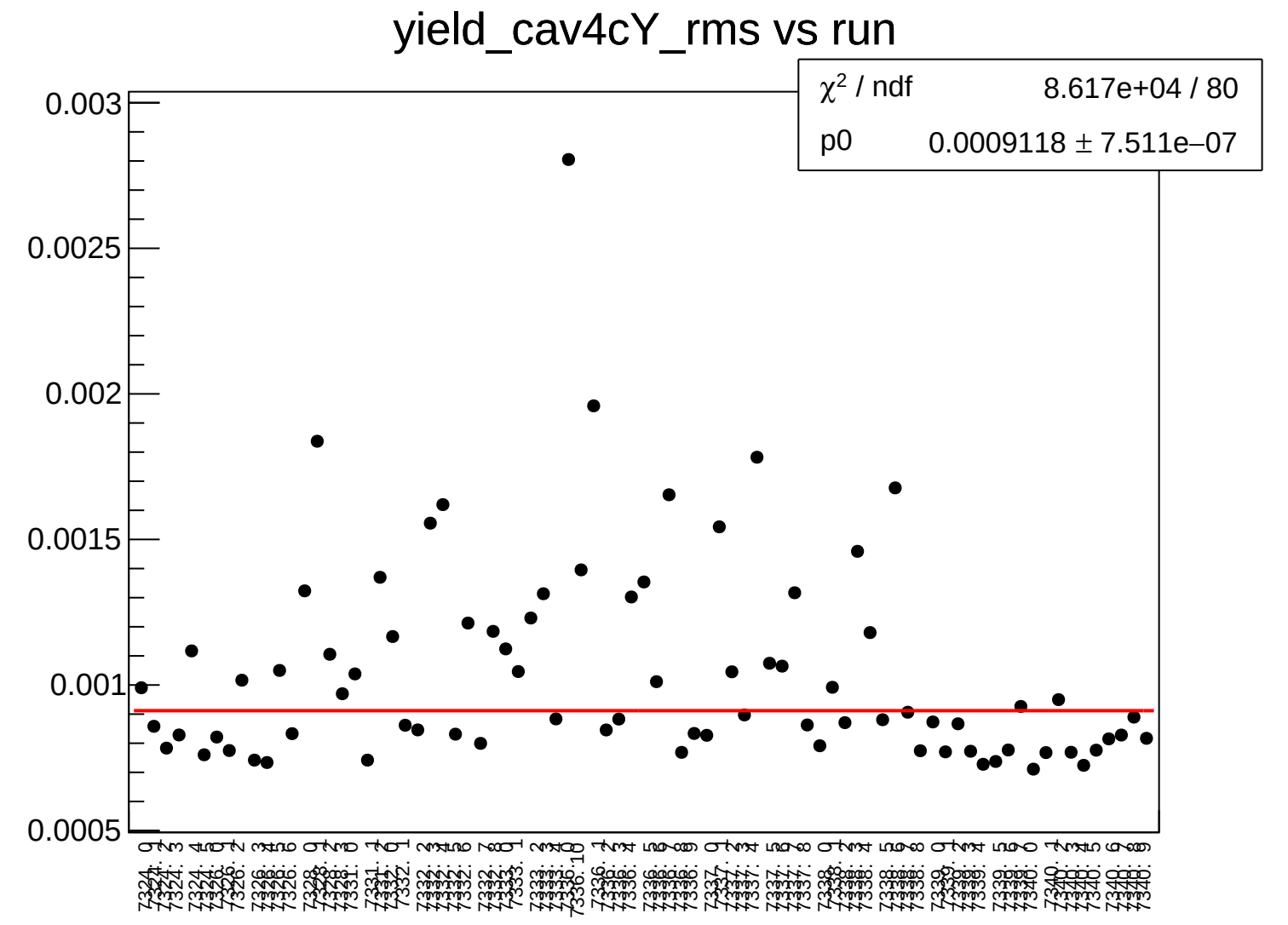

yield_cav4cX_mean vs run
χ² / ndf 3.821e+06 / 80
p0 0.004784 ± 1.763e−06
pull
Entries 81
Mean 1491
Std Dev 1452

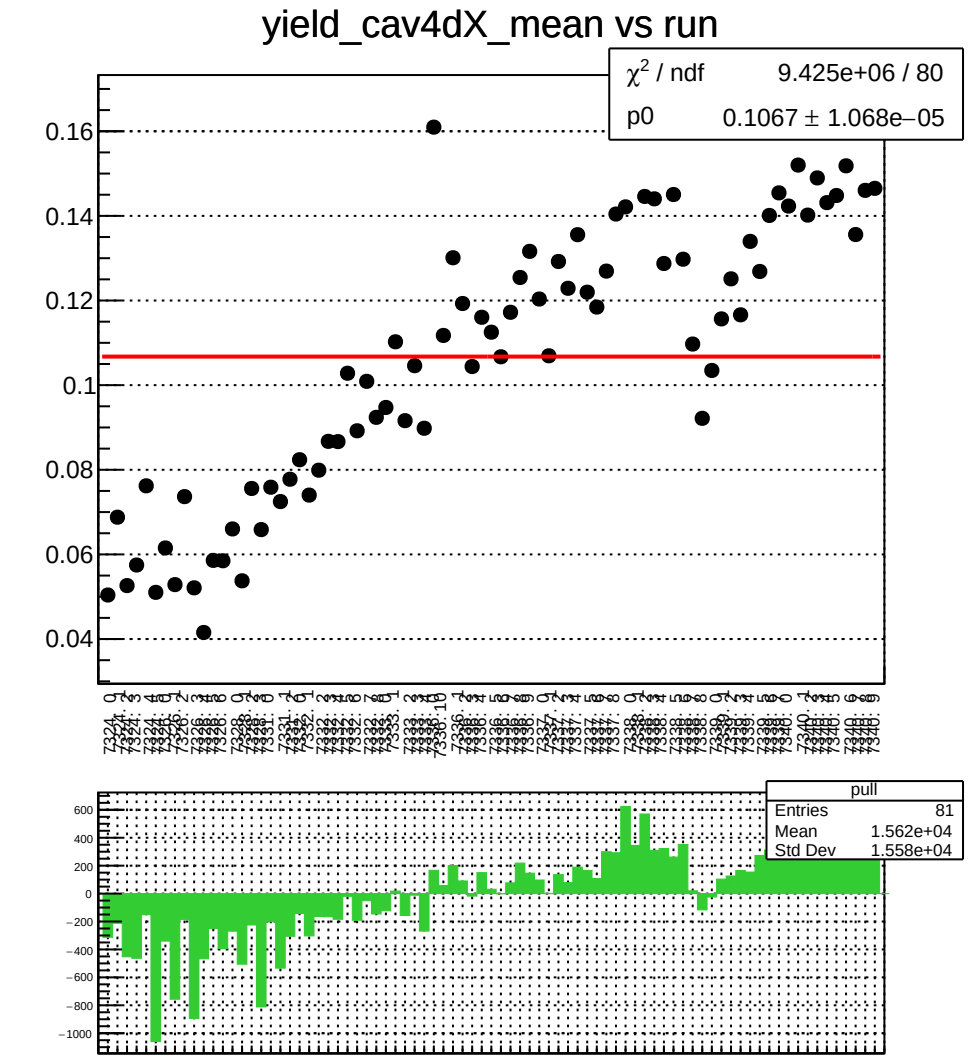

pull1D
Entries 81
Mean −2.808
Std Dev 0

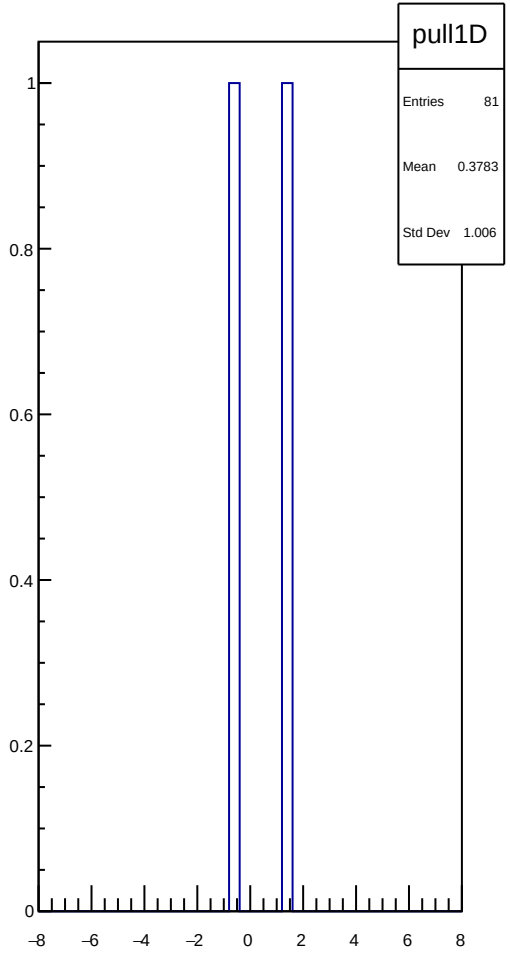

yield_cav4cX_rms vs run
χ² / ndf 2.426e+05 / 80
p0 0.001431 ± 1.247e−06
0.005
0.004
0.003
0.002
0.001

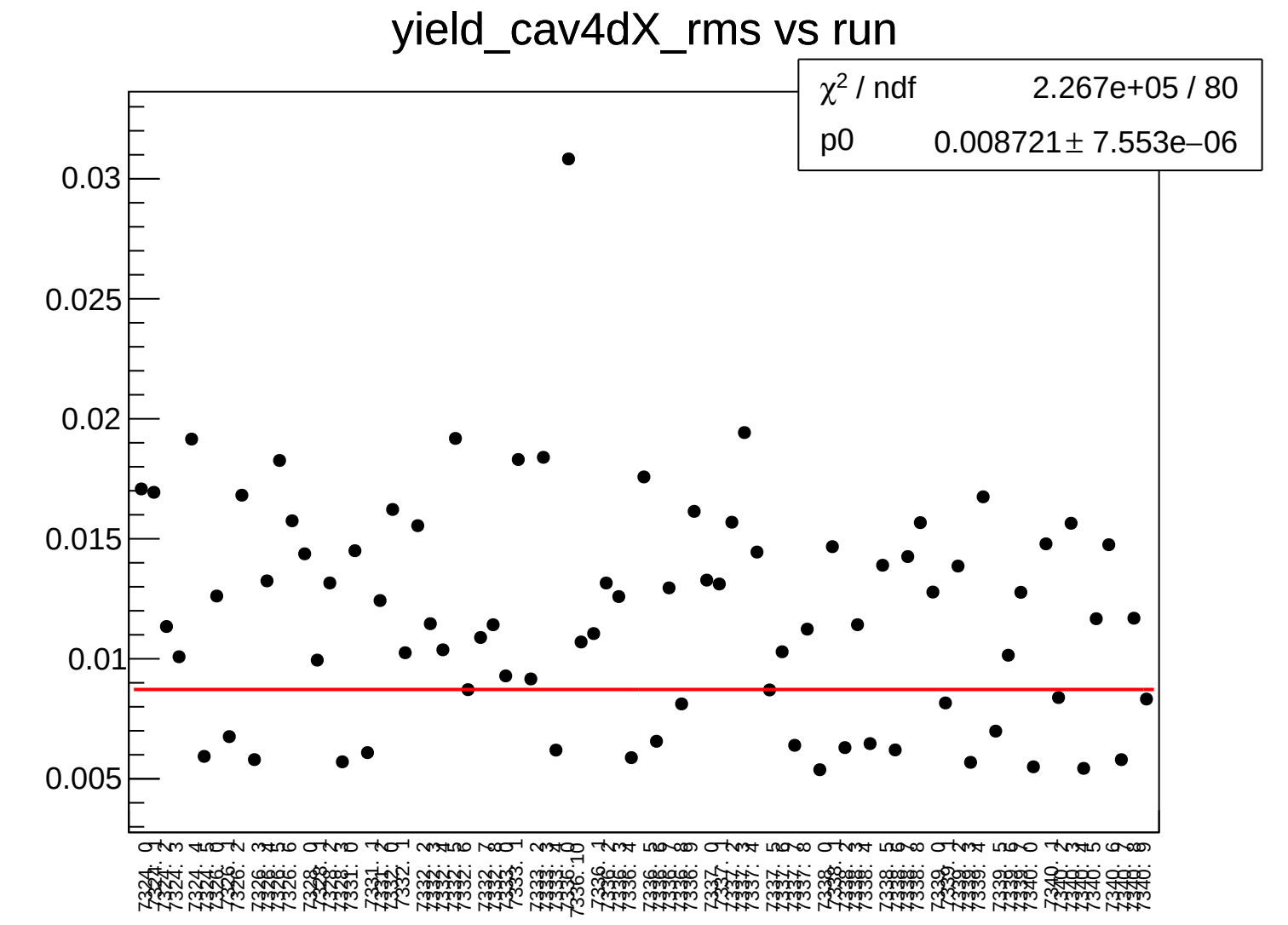

yield_cav4cY_mean vs run
χ² / ndf 7.094e+06 / 80
p0 −0.1226 ± 1.062e−06
−0.118
−0.12
−0.122
−0.124
−0.126
−0.128
−0.13
pull
Entries 81
Mean 494.9
Std Dev 460
600
400
200
0
−200
−400

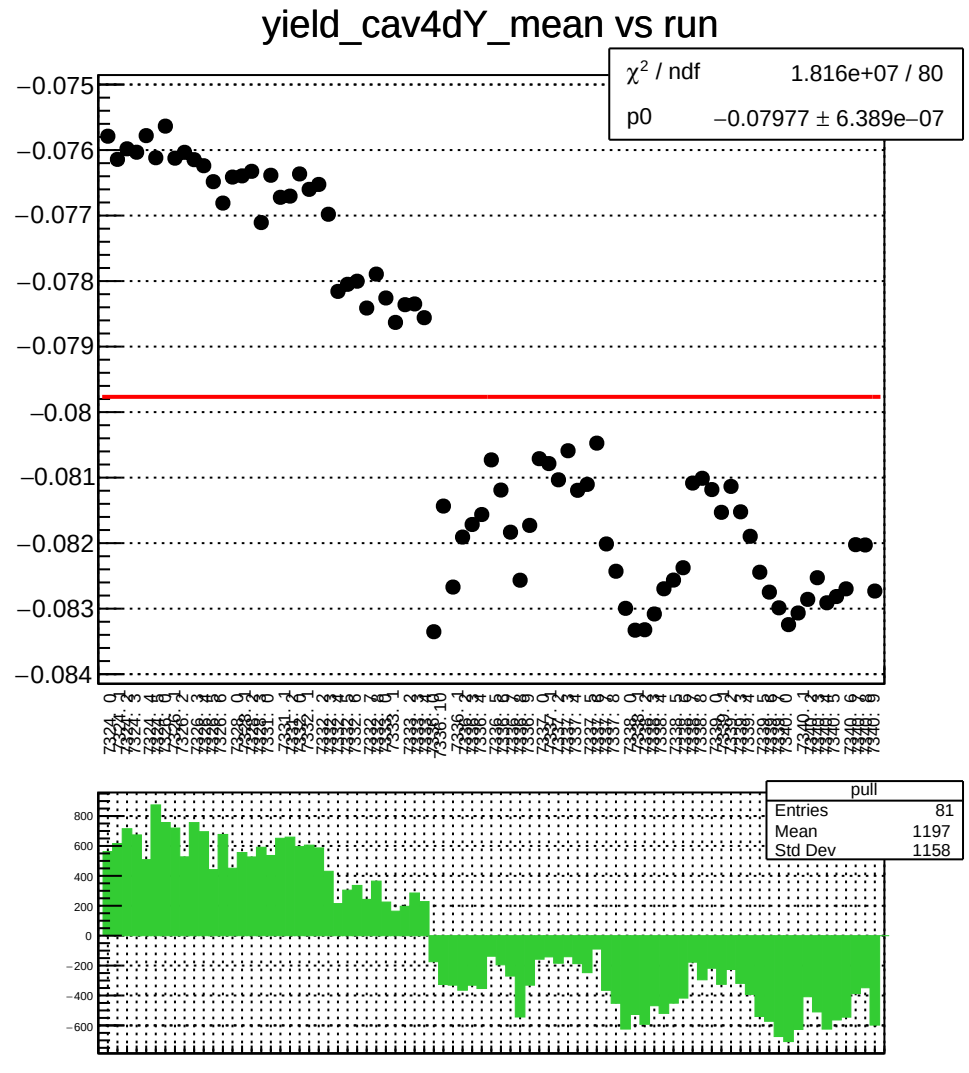

pull1D
Entries 81
Mean 6.394
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

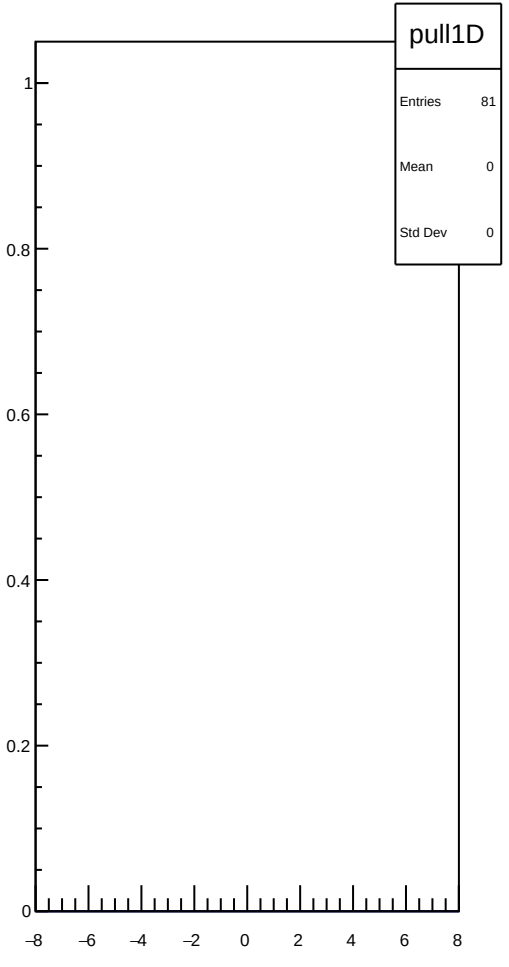

yield_cav4cY_rms vs run
χ² / ndf 8.617e+04 / 80
p0 0.0009118 ± 7.511e−07
0.003
0.0025
0.002
0.0015
0.001
0.0005

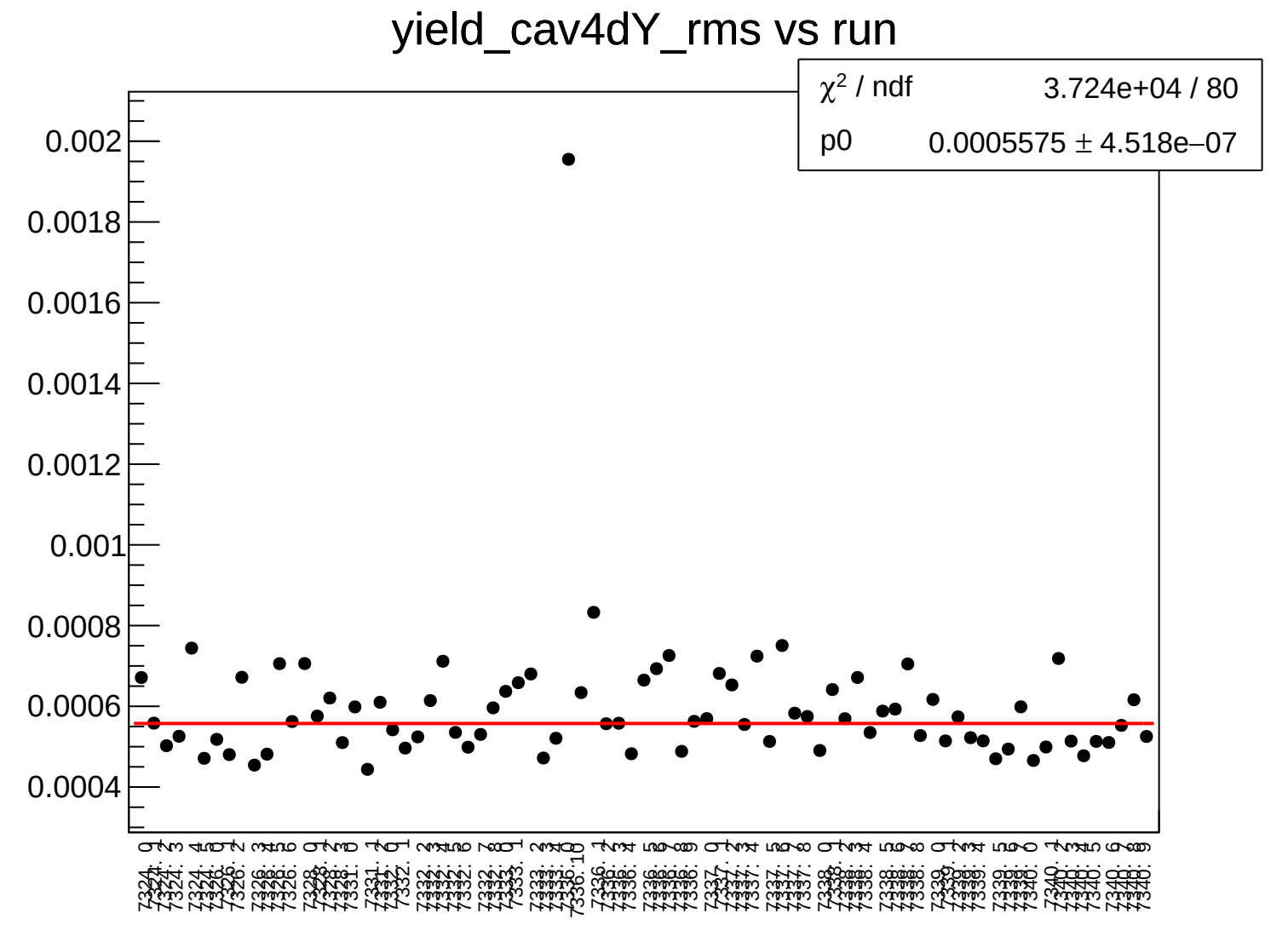

yield_cav4dX_mean vs run
χ² / ndf 9.425e+06 / 80
p0 0.1067 ± 1.068e−05
pull
Entries 81
Mean 1.562e+04
Std Dev 1.558e+04

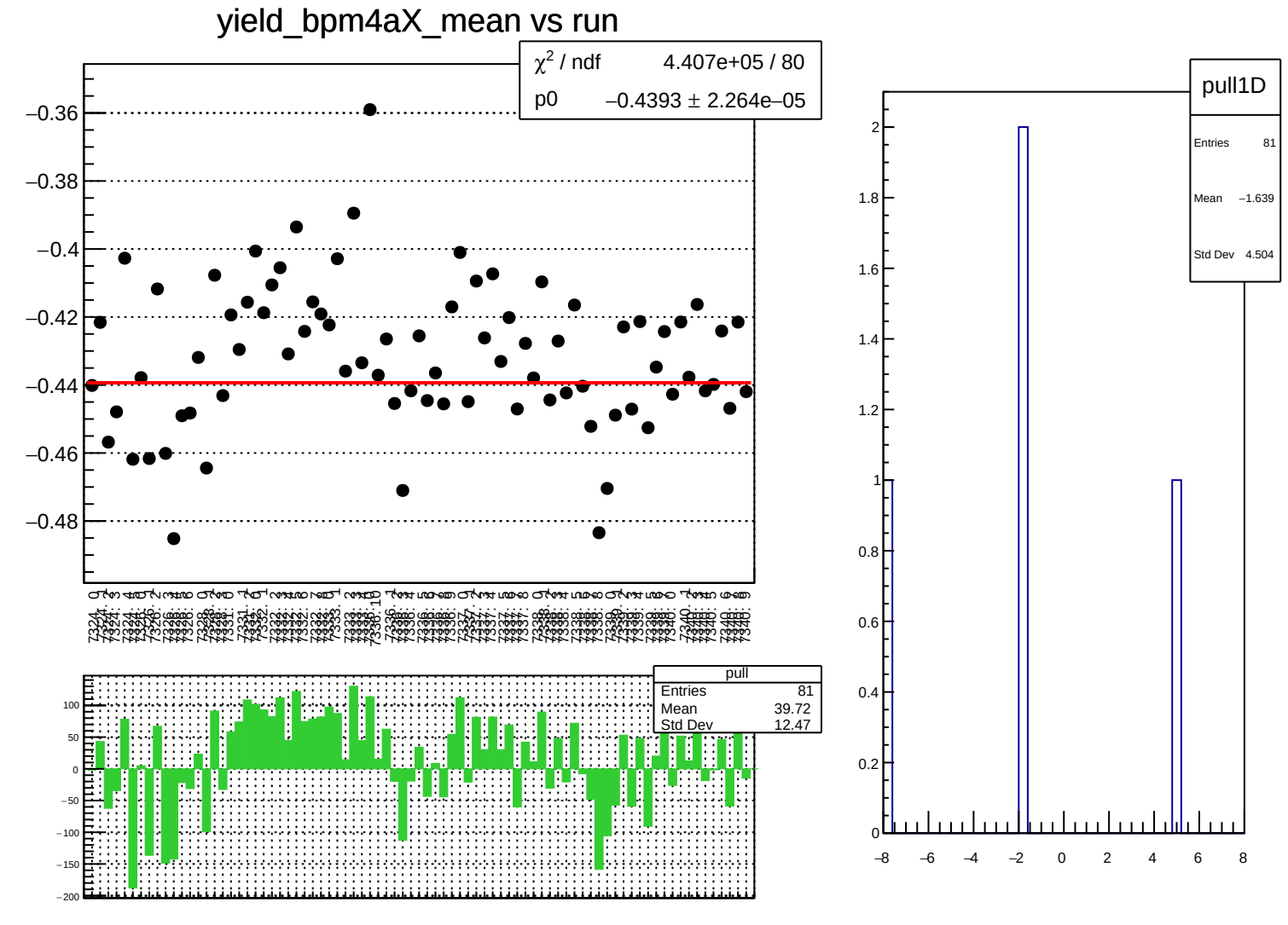

pull1D
Entries 81
Mean 0.3783
Std Dev 1.006

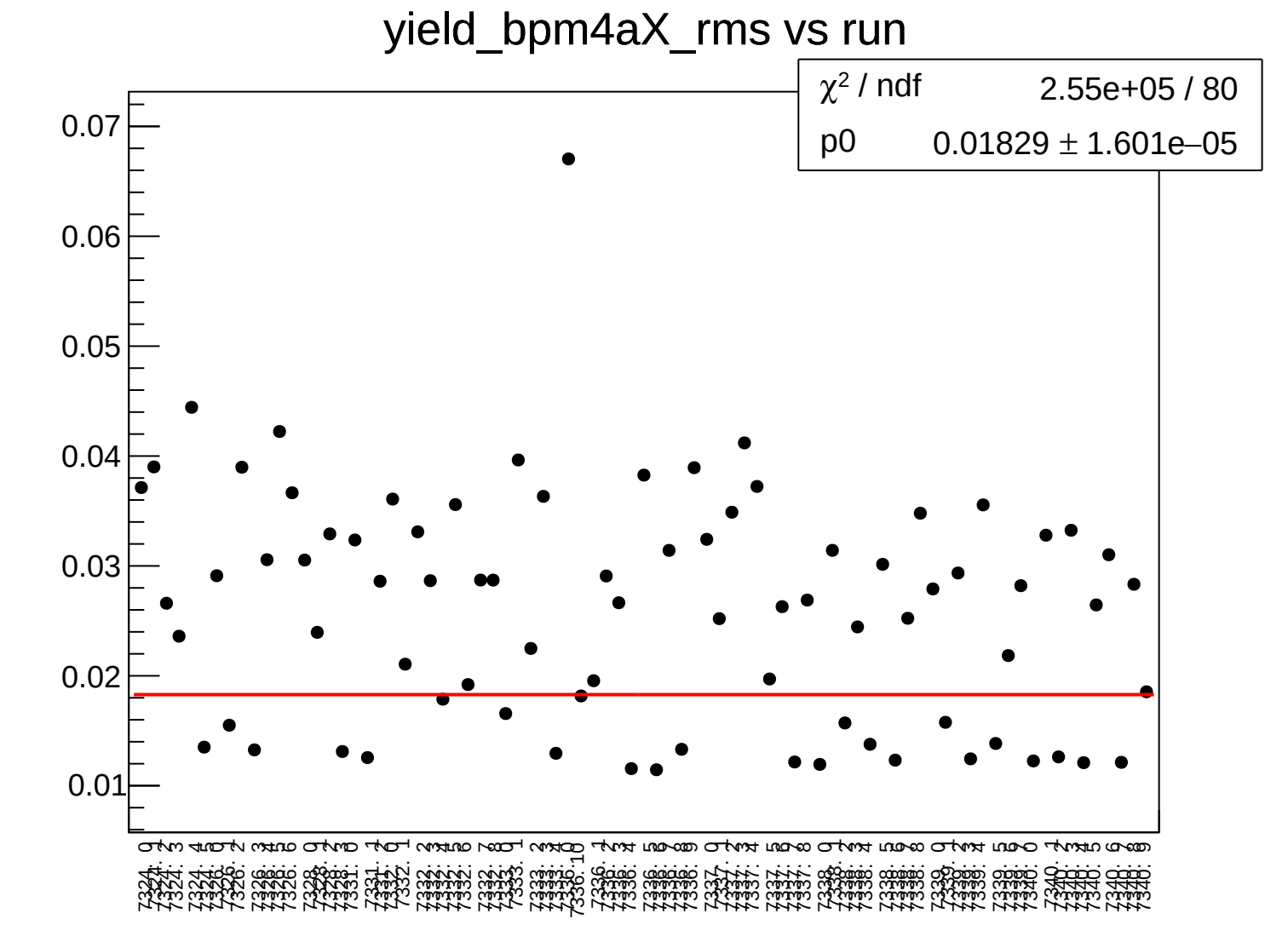

yield_cav4dX_rms vs run
χ² / ndf 2.267e+05 / 80
p0 0.008721 ± 7.553e−06
0.03
0.025
0.02
0.015
0.01
0.005

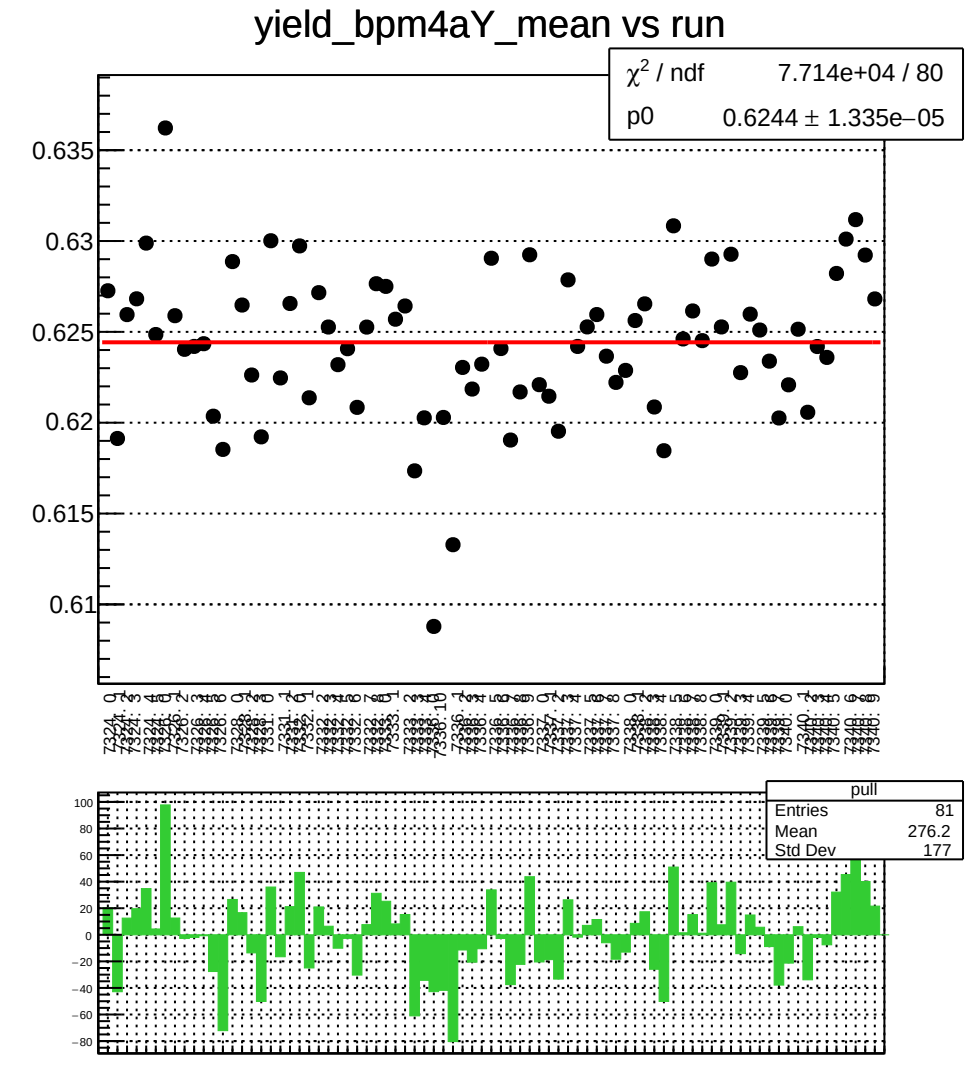

yield_cav4dY_mean vs run
χ² / ndf 1.816e+07 / 80
p0 −0.07977 ± 6.389e−07
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
−0.082
−0.083
−0.084
pull
Entries 81
Mean 1197
Std Dev 1158
800
600
400
200
0
−200
−400
−600

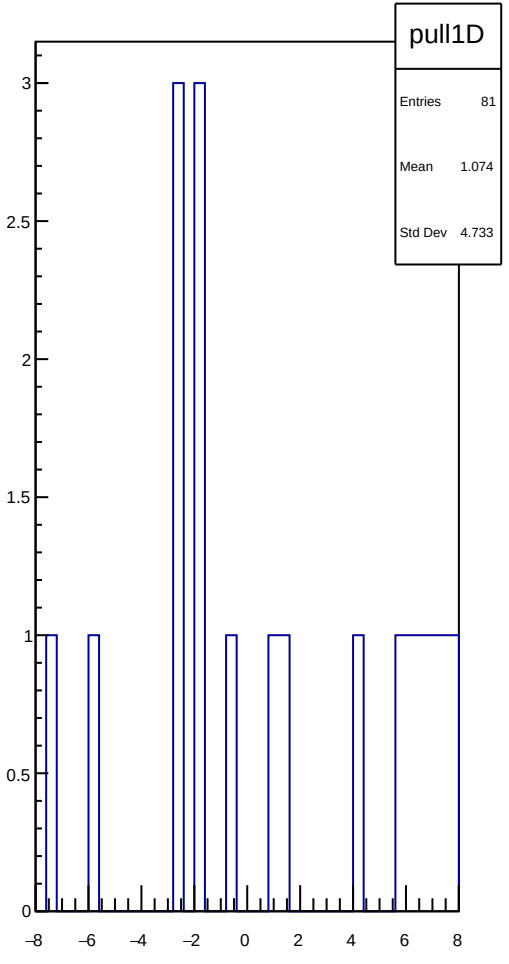

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

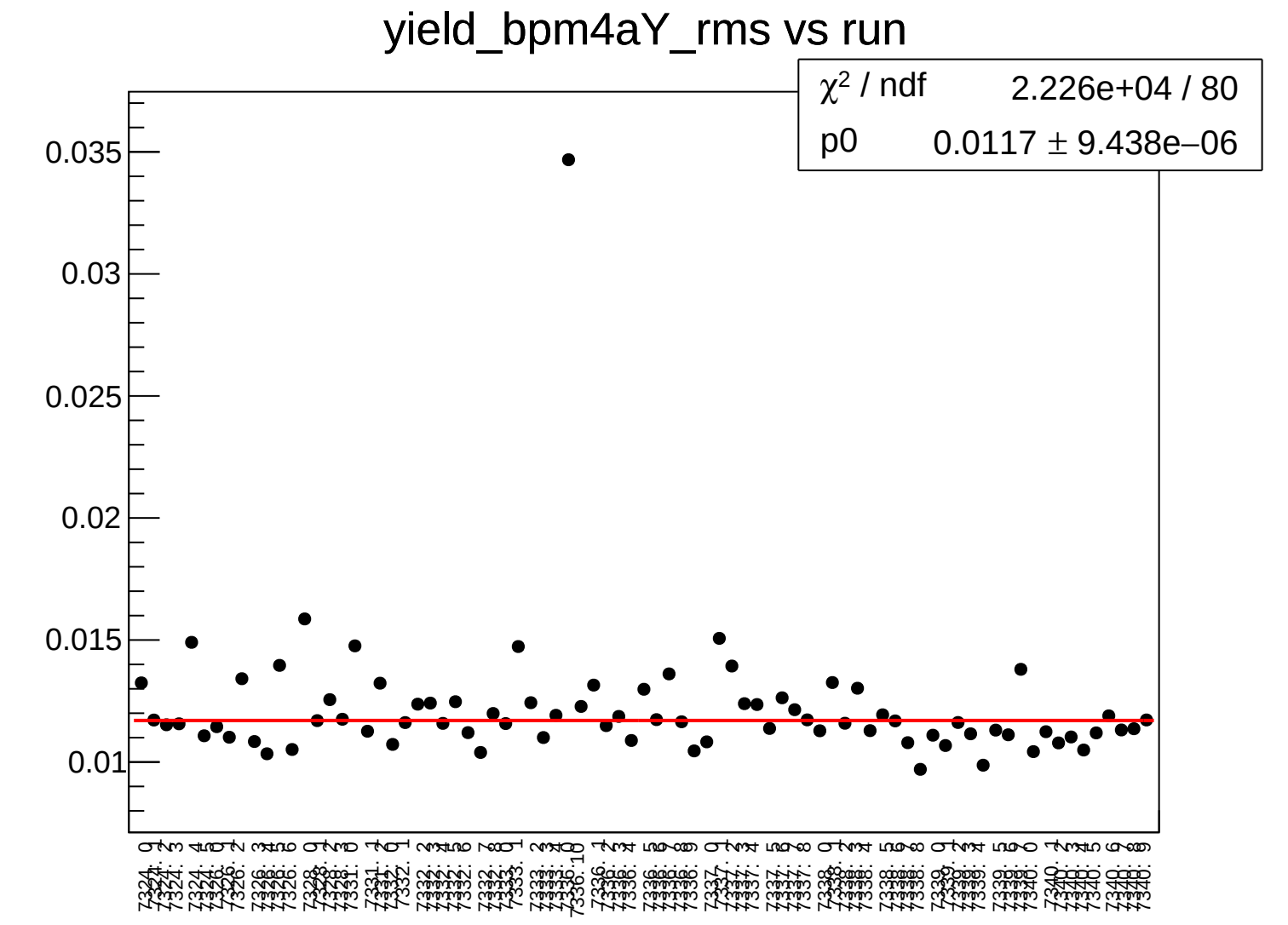

yield_cav4dY_rms vs run
χ² / ndf 3.724e+04 / 80
p0 0.0005575 ± 4.518e−07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

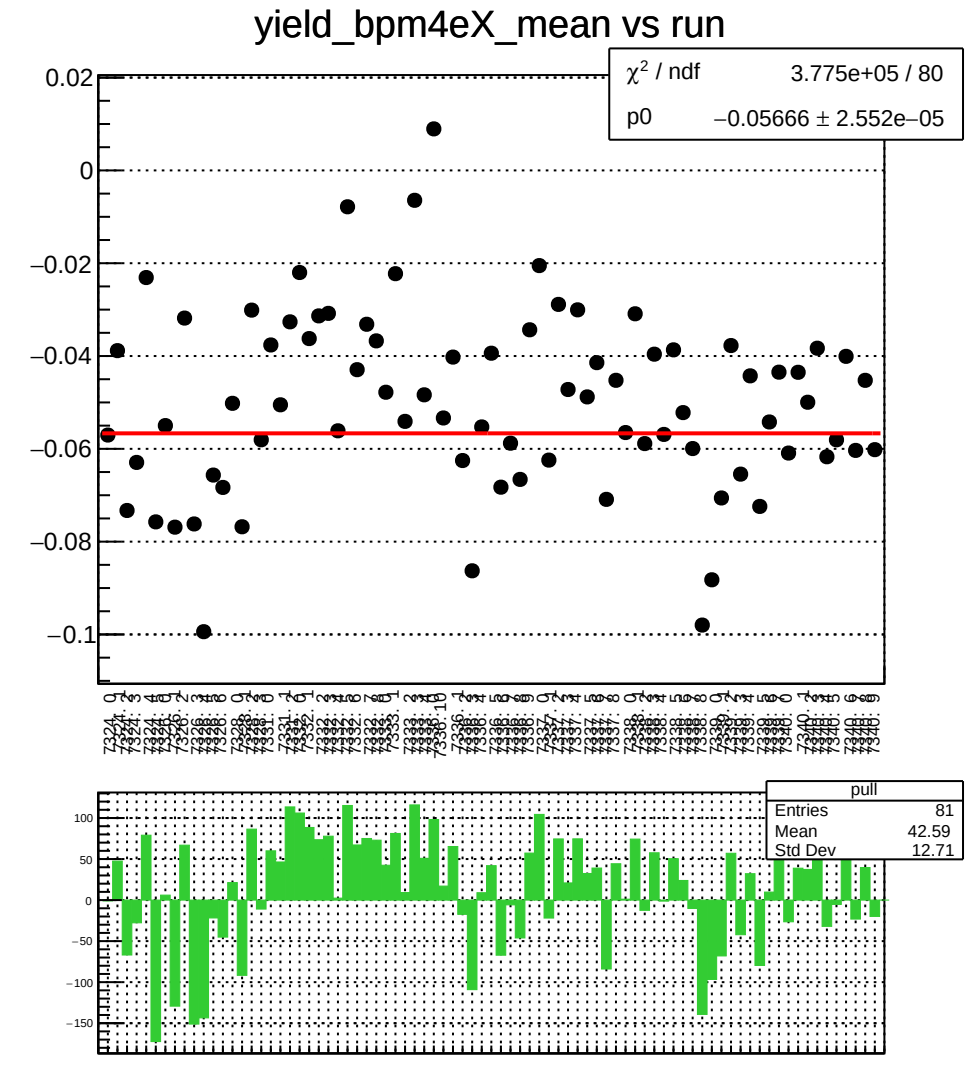

yield_bpm4aX_mean vs run
χ² / ndf 4.407e+05 / 80
p0 −0.4393 ± 2.264e−05
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 81
Mean 39.72
Std Dev 12.47
100
50
0
−50
−100
−150
−200
pull1D
Entries 81
Mean −1.639
Std Dev 4.504
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

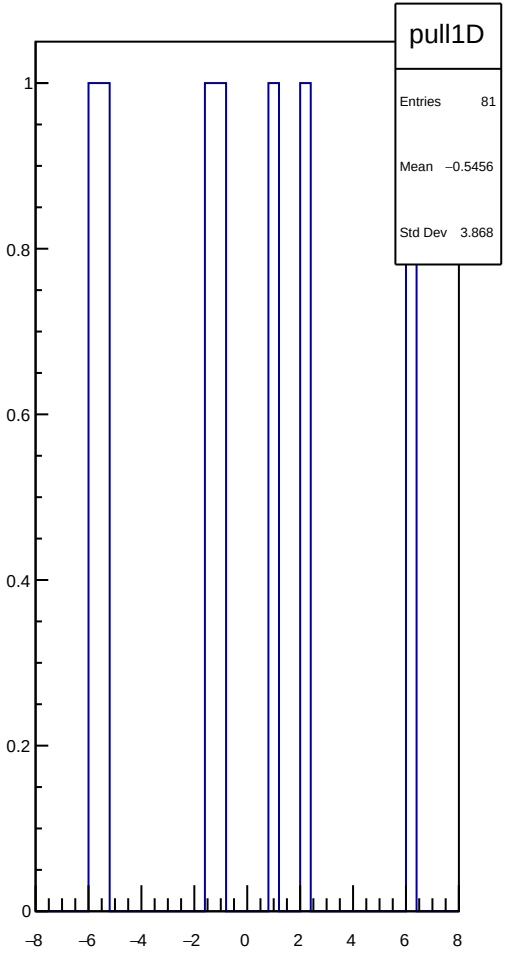

yield_bpm4aX_rms vs run
χ² / ndf 2.55e+05 / 80
p0 0.01829 ± 1.601e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

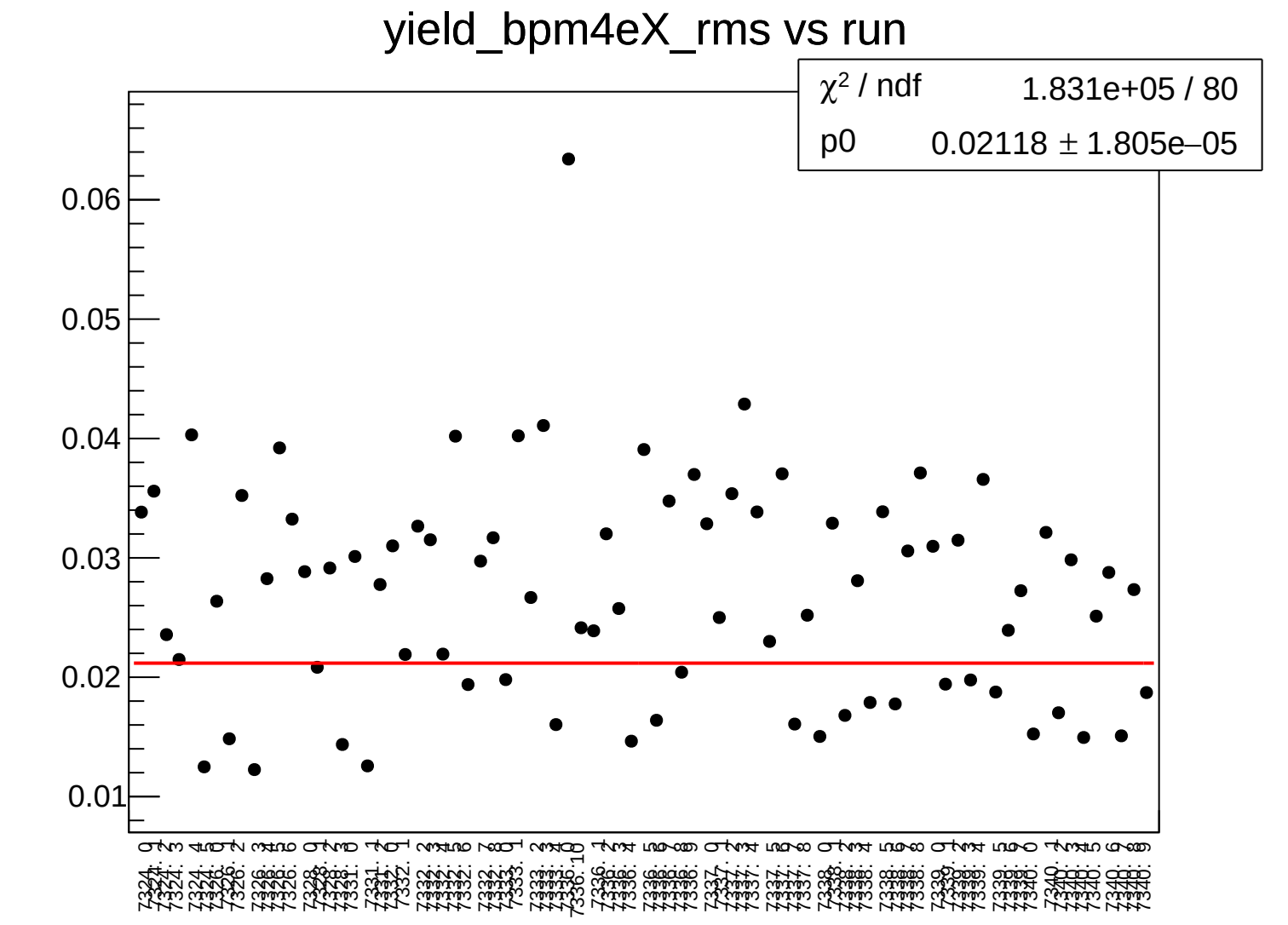

yield_bpm4aY_mean vs run
χ² / ndf 7.714e+04 / 80
p0 0.6244 ± 1.335e−05
0.635
0.63
0.625
0.62
0.615
0.61
pull
Entries 81
Mean 276.2
Std Dev 177
100
80
60
40
20
0
−20
−40
−60
−80

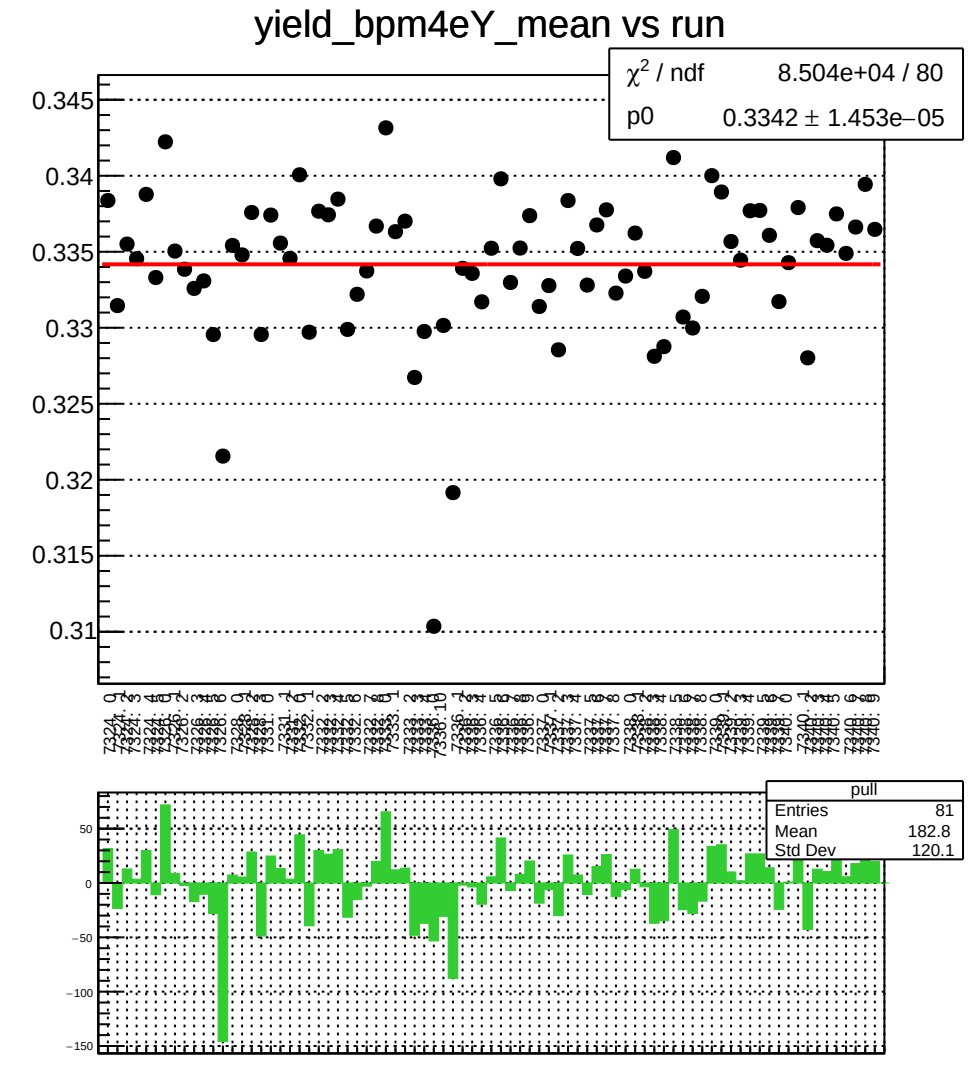

pull1D
Entries 81
Mean 1.074
Std Dev 4.733
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

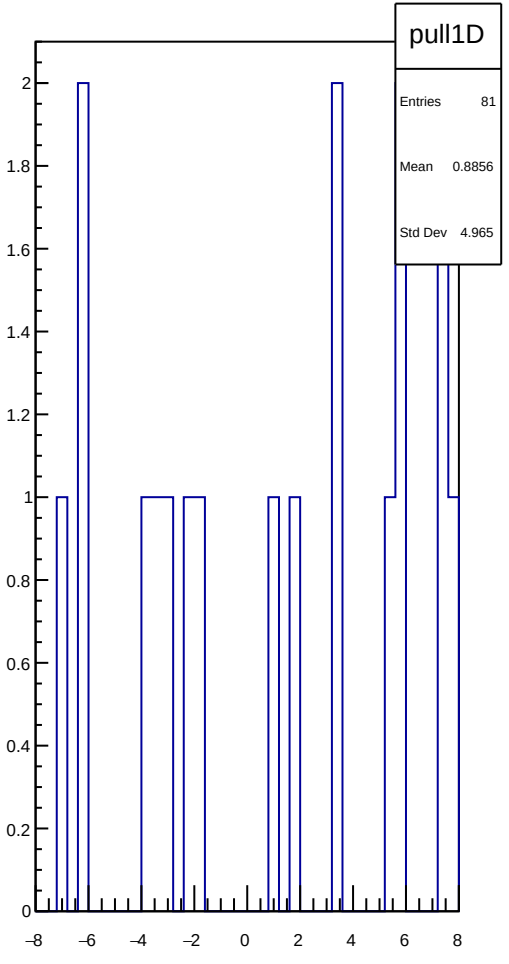

yield_bpm4aY_rms vs run
χ² / ndf 2.226e+04 / 80
p0 0.0117 ± 9.438e−06
0.035
0.03
0.025
0.02
0.015
0.01

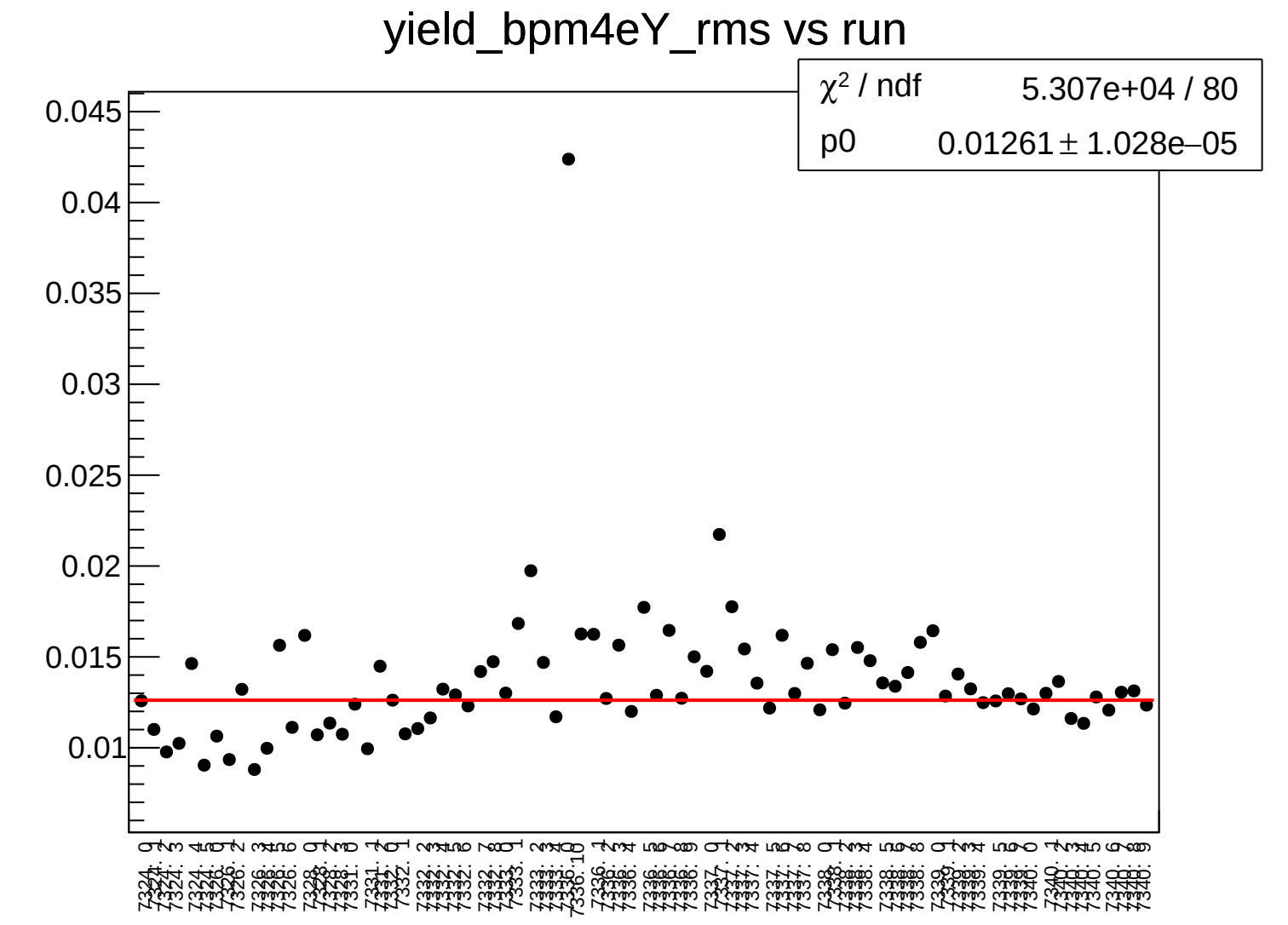

yield_bpm4eX_mean vs run
χ² / ndf 3.775e+05 / 80
p0 −0.05666 ± 2.552e−05
pull
Entries 81
Mean 42.59
Std Dev 12.71

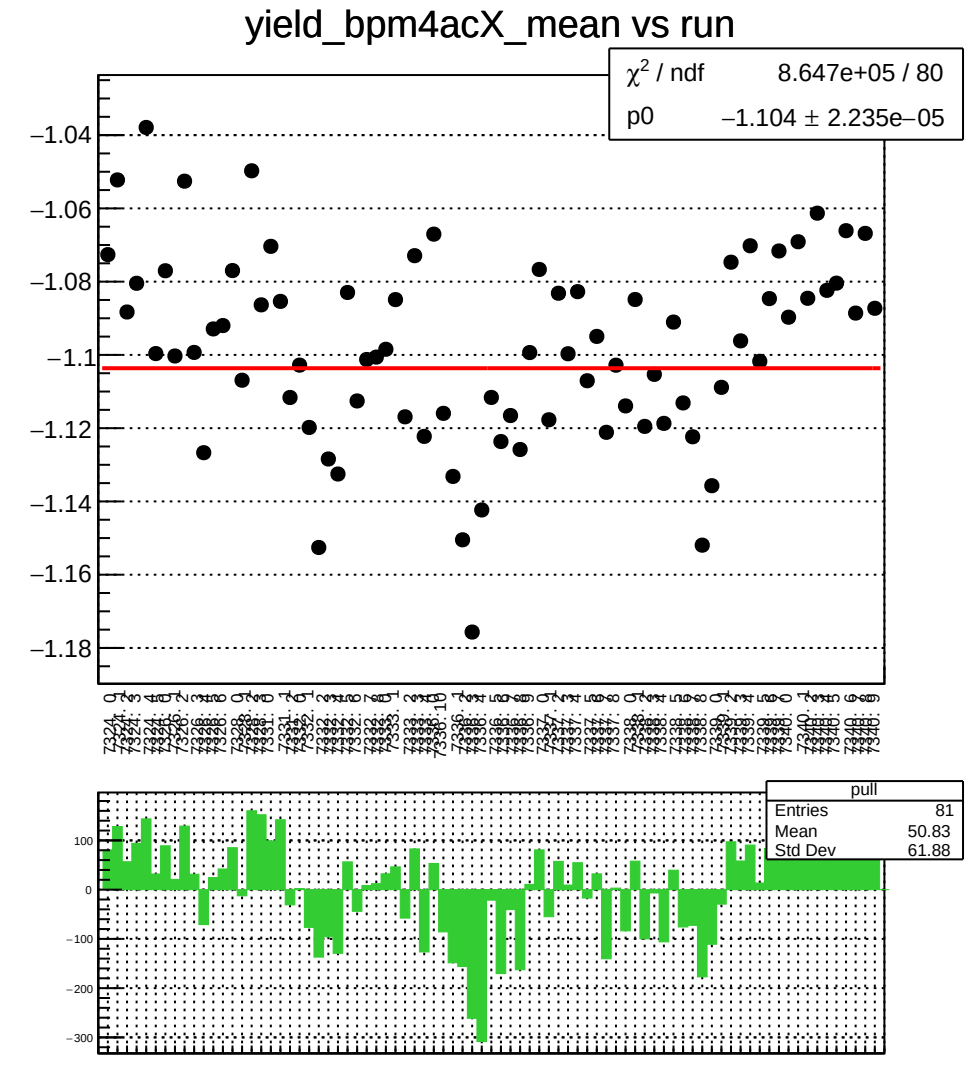

pull1D
Entries 81
Mean −0.5456
Std Dev 3.868

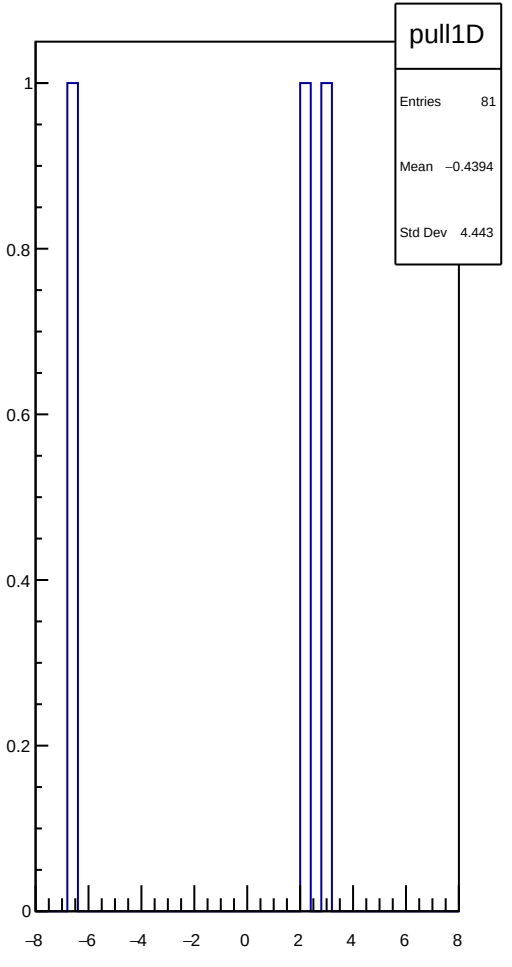

yield_bpm4eX_rms vs run
χ² / ndf 1.831e+05 / 80
p0 0.02118 ± 1.805e–05
0.06
0.05
0.04
0.03
0.02
0.01

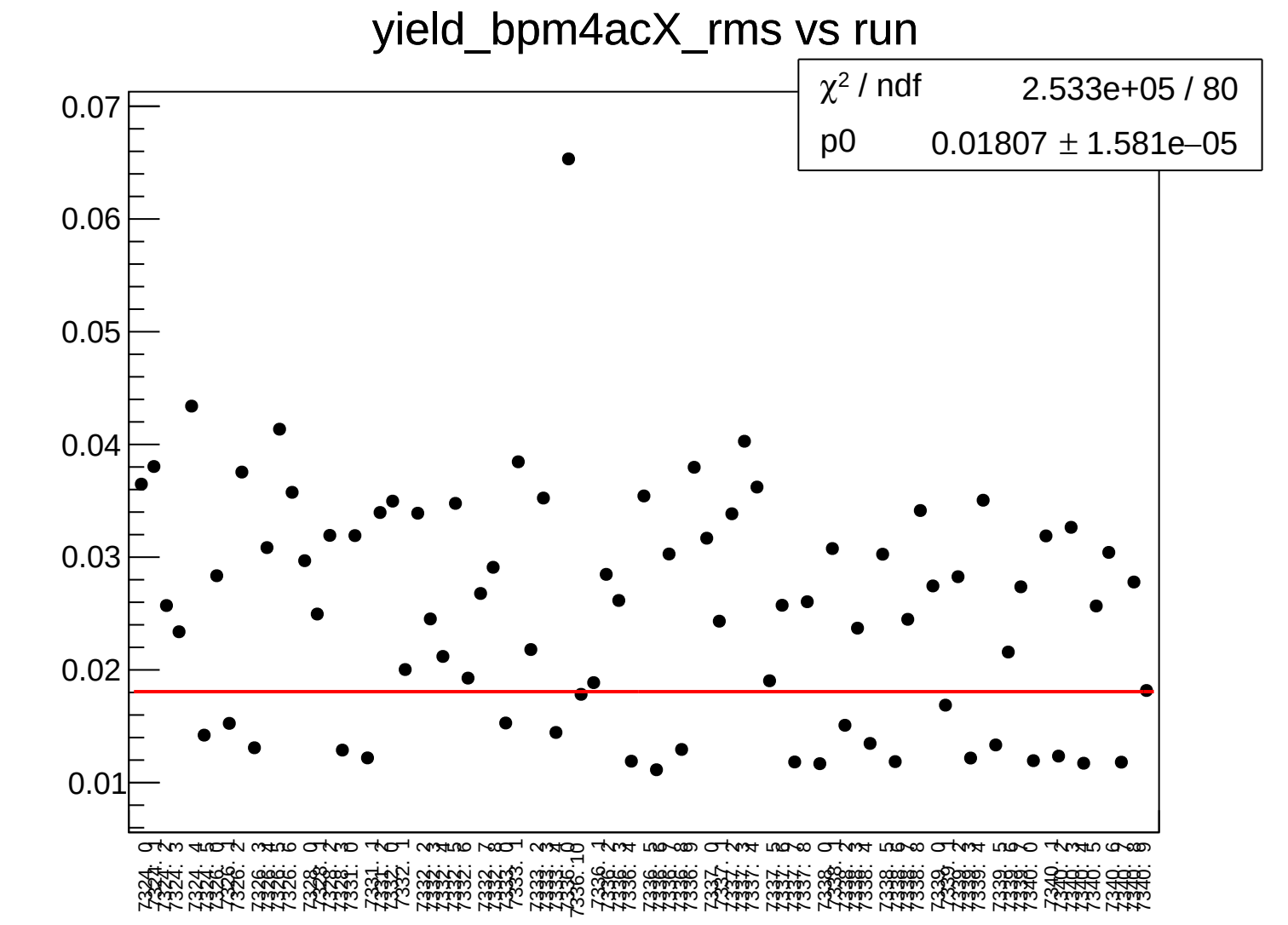

yield_bpm4eY_mean vs run
χ² / ndf 8.504e+04 / 80
p0 0.3342 ± 1.453e−05
0.345
0.34
0.335
0.33
0.325
0.32
0.315
0.31
pull
Entries 81
Mean 182.8
Std Dev 120.1
50
0
−50
−100
−150

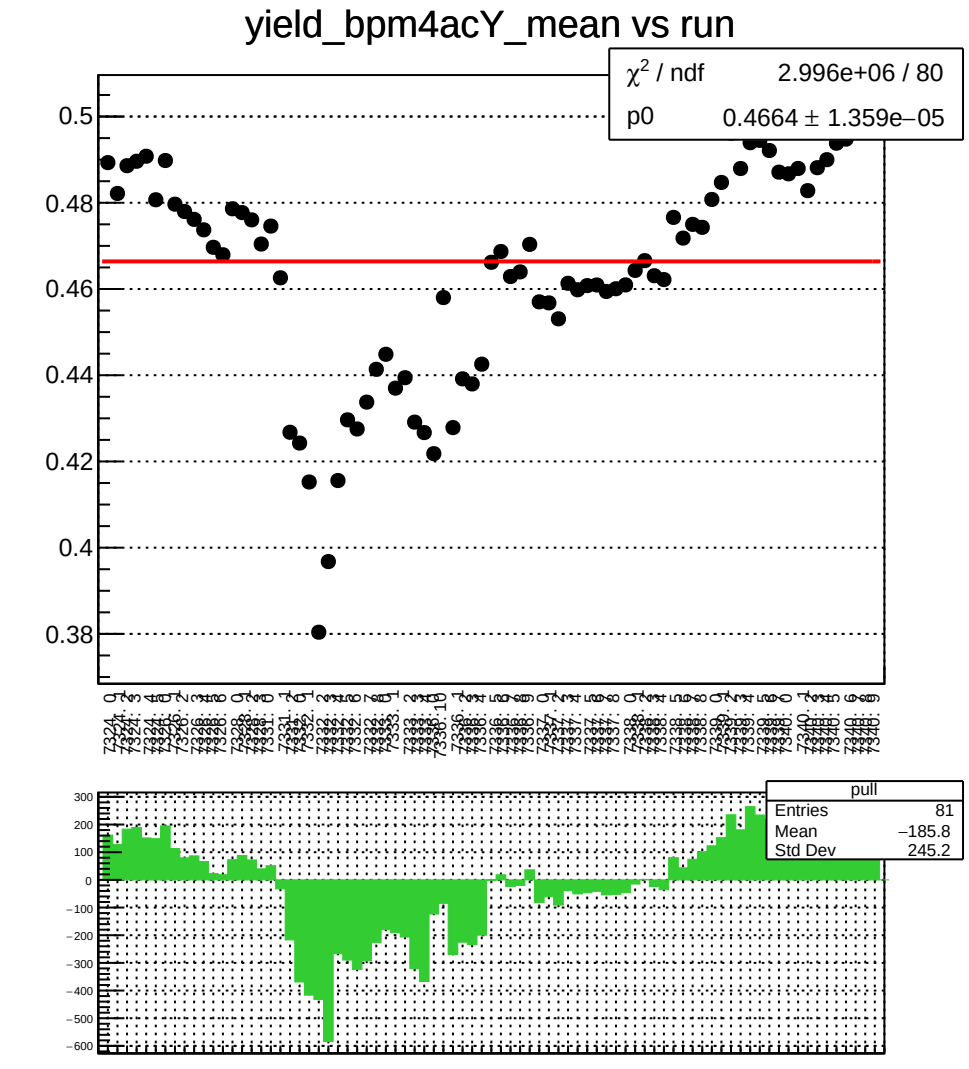

pull1D
Entries 81
Mean 0.8856
Std Dev 4.965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

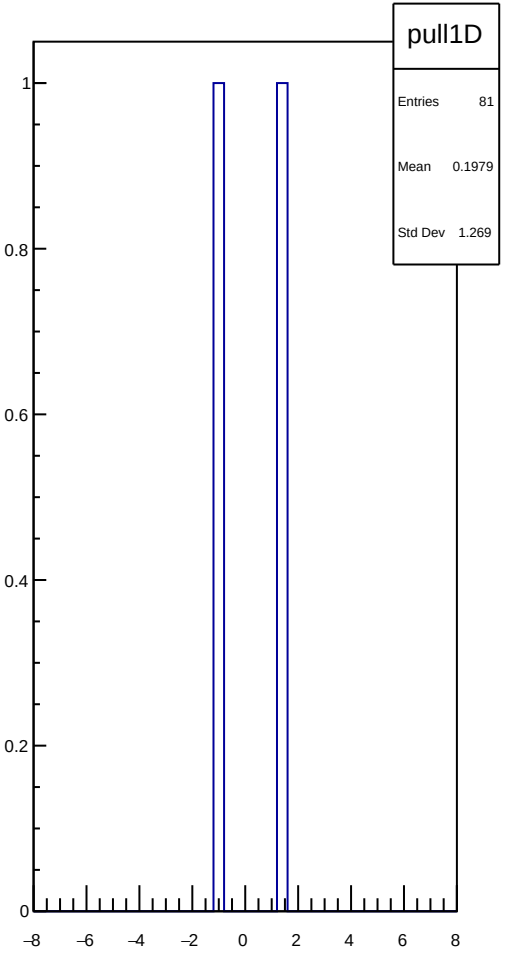

yield_bpm4eY_rms vs run
χ² / ndf 5.307e+04 / 80
p0 0.01261 ± 1.028e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

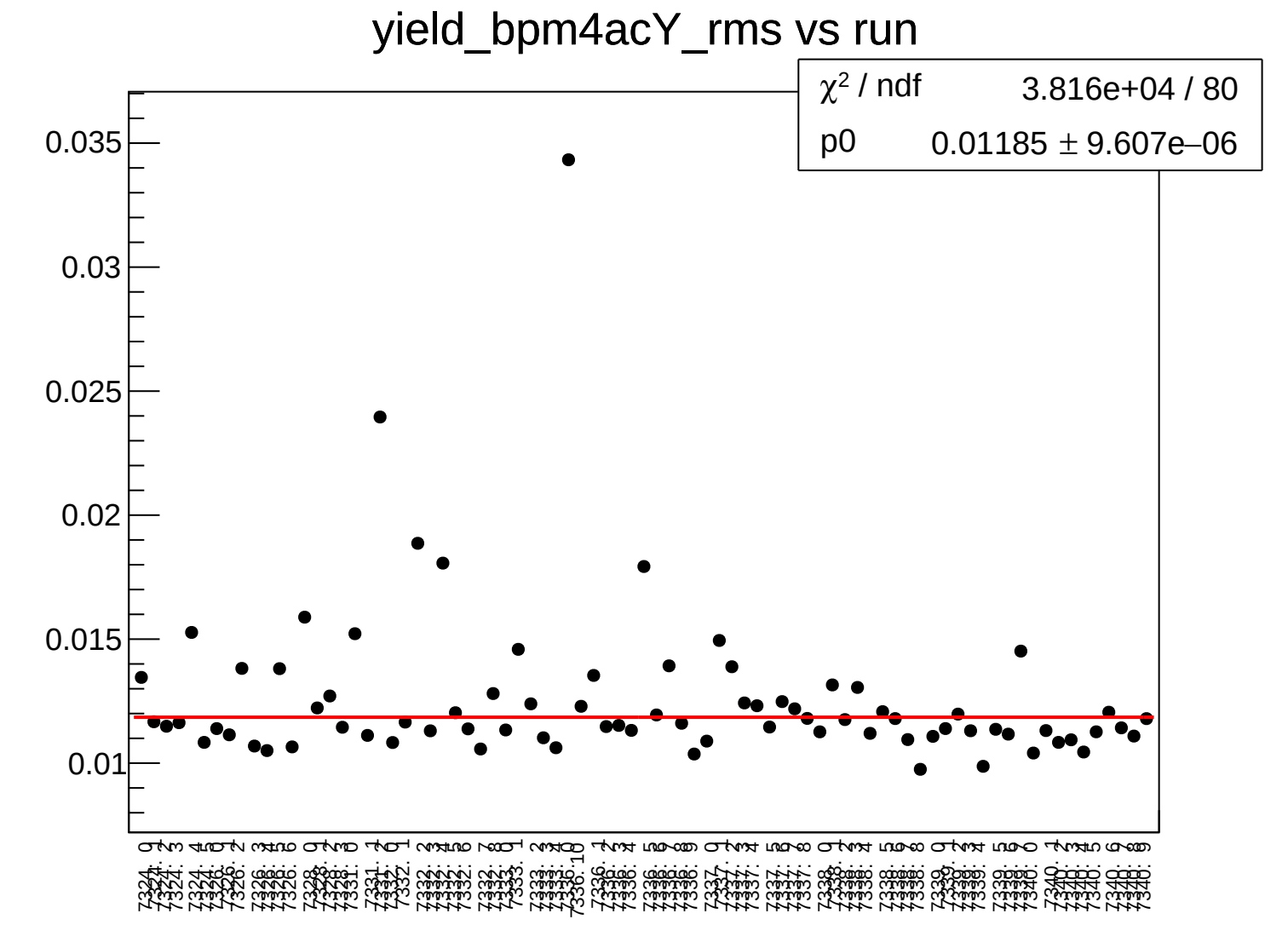

yield_bpm4acX_mean vs run
χ² / ndf 8.647e+05 / 80
p0 −1.104 ± 2.235e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 81
Mean 50.83
Std Dev 61.88
100
0
−100
−200
−300

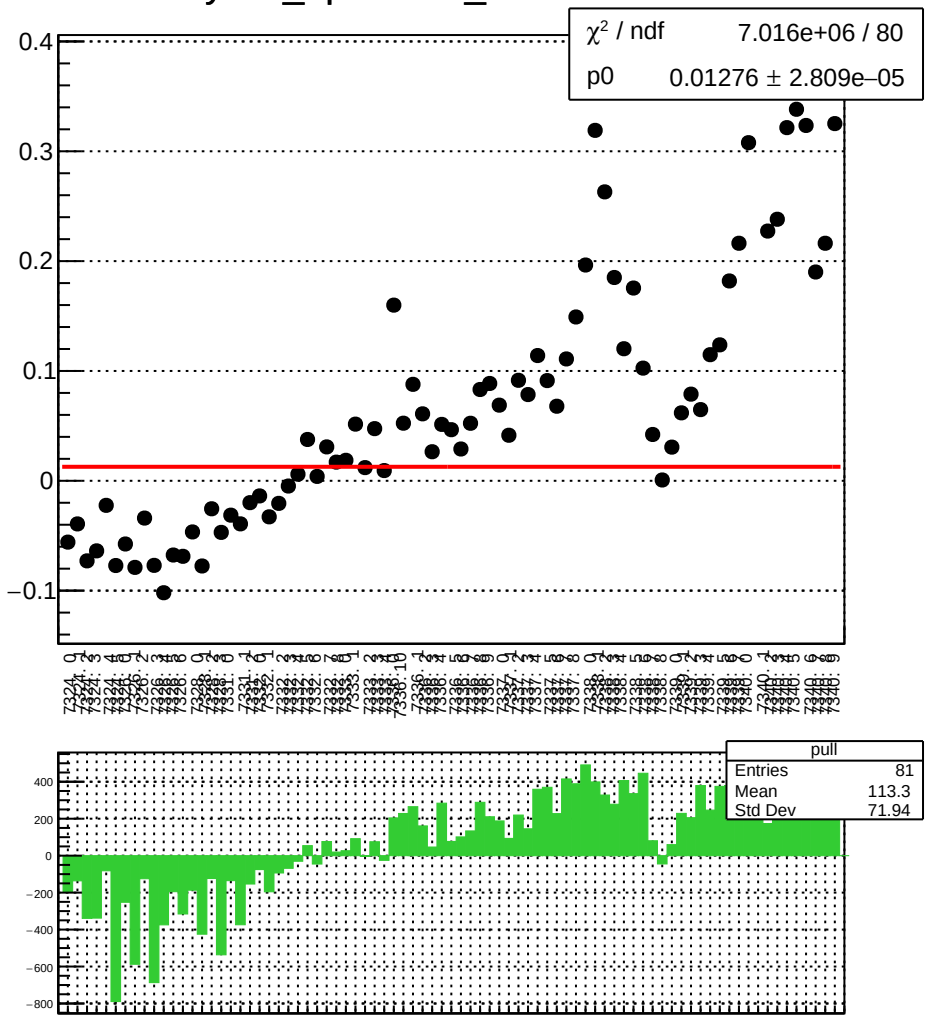

pull1D
Entries 81
Mean −0.4394
Std Dev 4.443
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

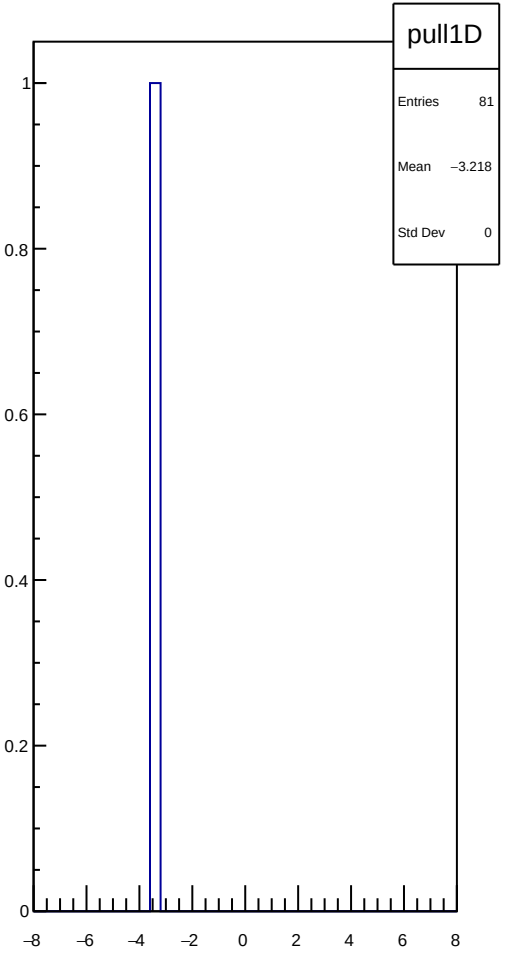

yield_bpm4acX_rms vs run
χ² / ndf 2.533e+05 / 80
p0 0.01807 ± 1.581e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

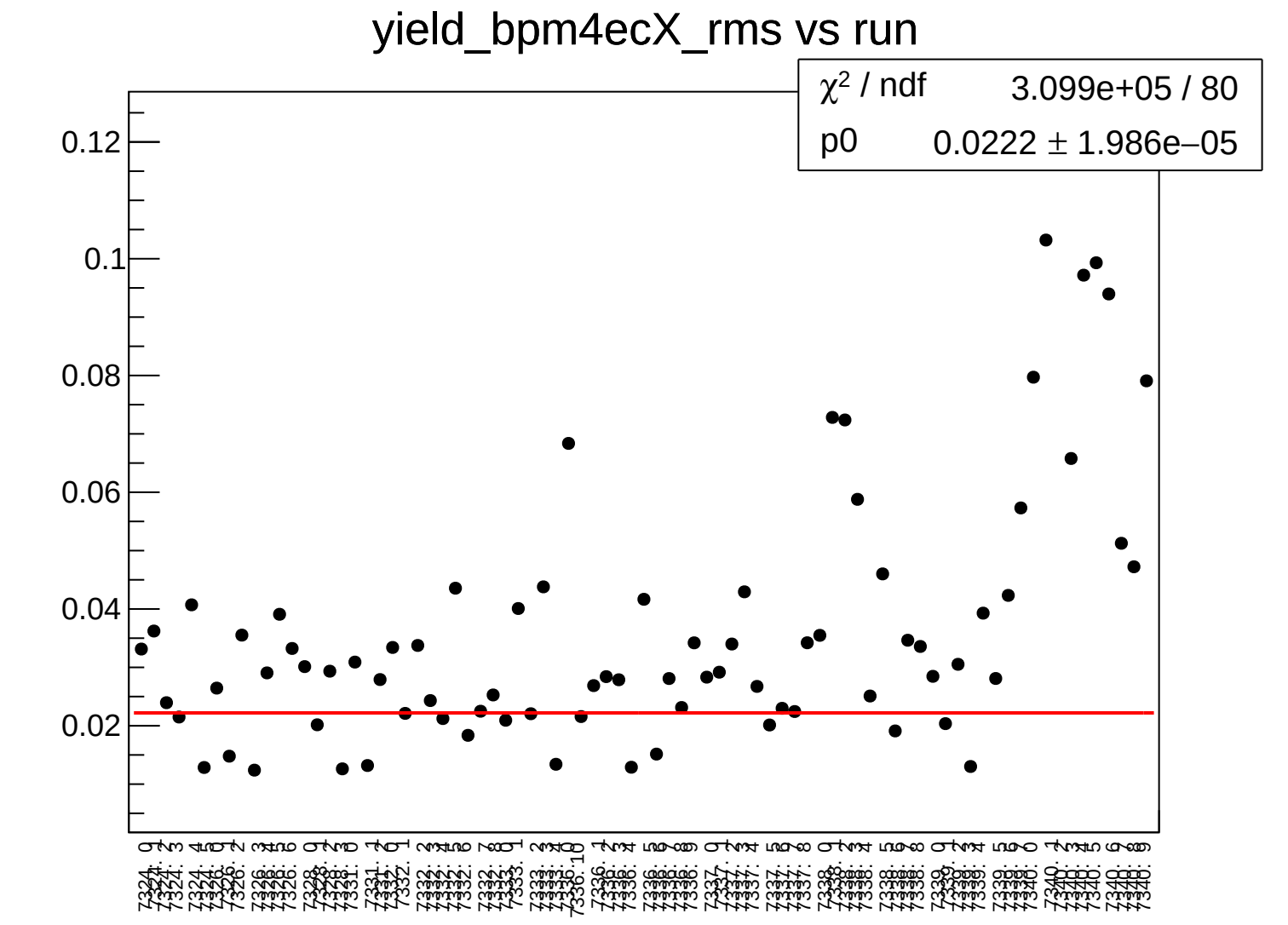

yield_bpm4acY_mean vs run
χ² / ndf 2.996e+06 / 80
p0 0.4664 ± 1.359e−05
pull
Entries 81
Mean −185.8
Std Dev 245.2

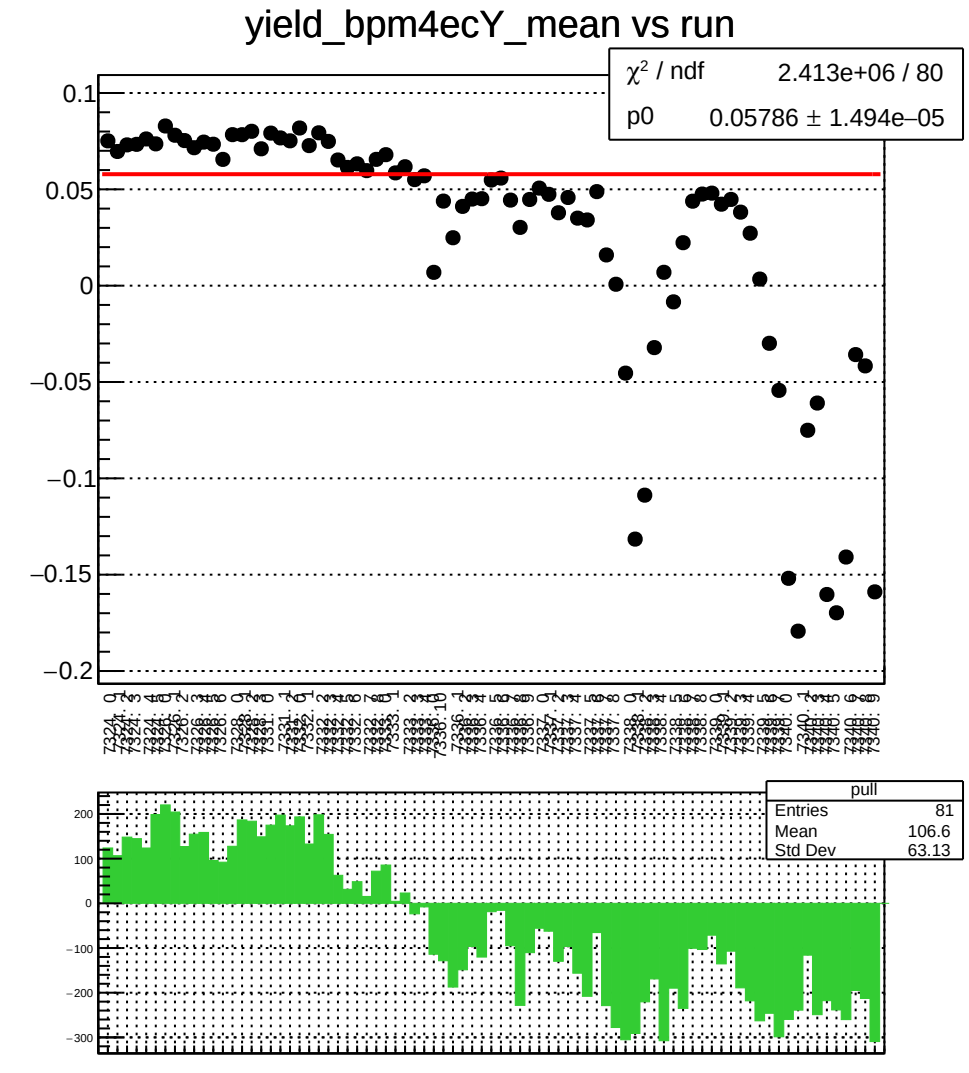

pull1D
Entries 81
Mean 0.1979
Std Dev 1.269

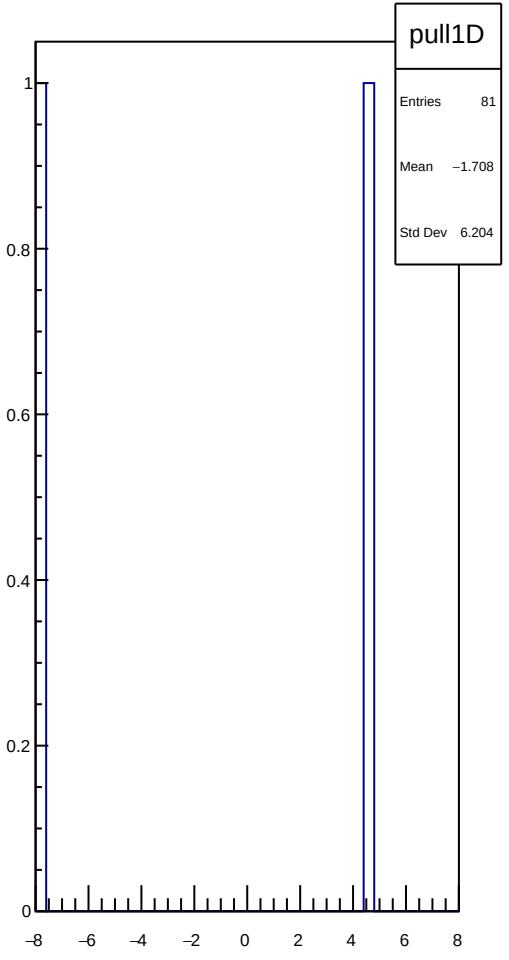

yield_bpm4acY_rms vs run
χ² / ndf 3.816e+04 / 80
p0 0.01185 ± 9.607e–06
0.035
0.03
0.025
0.02
0.015
0.01

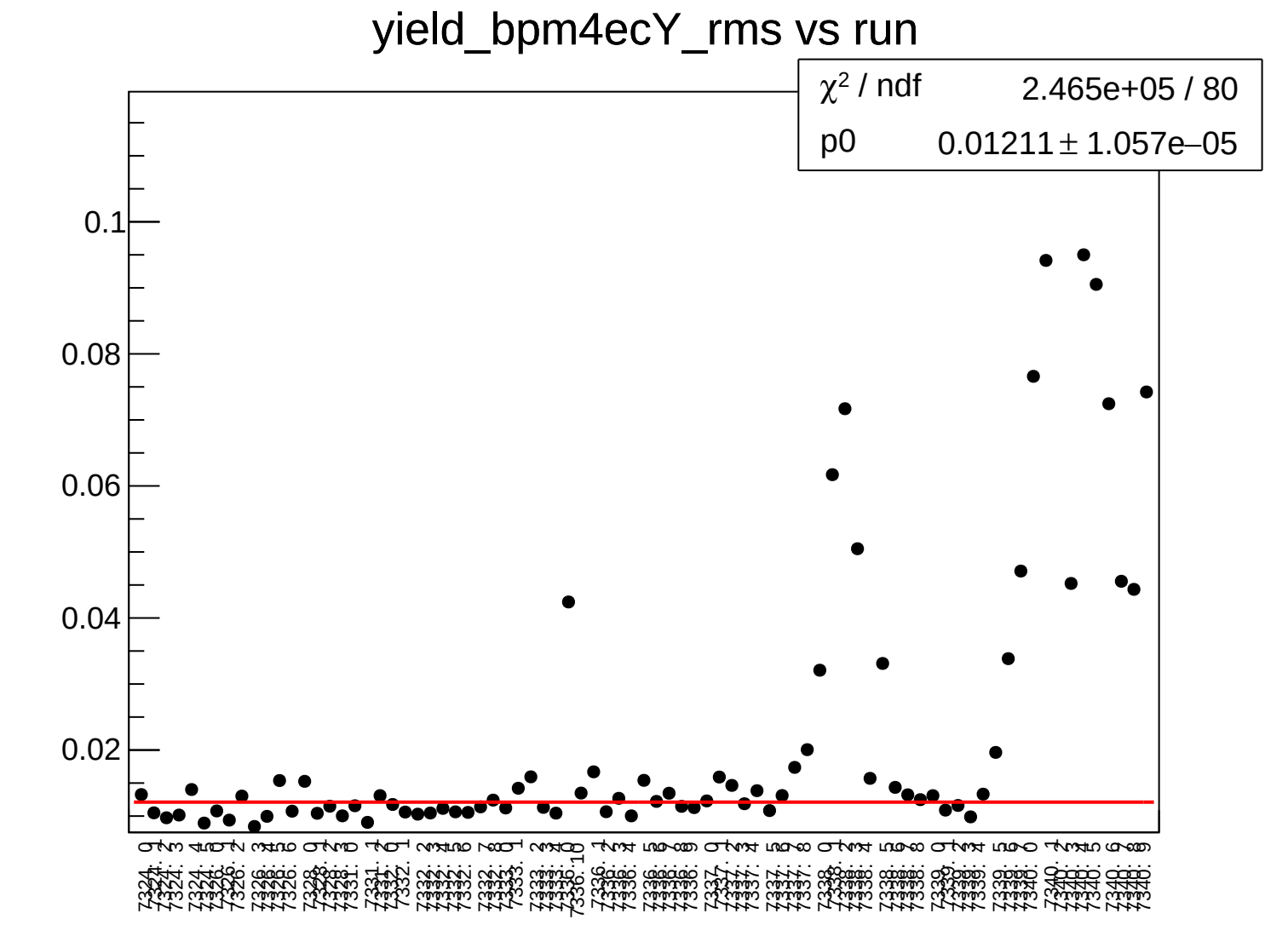

yield_bpm4ecX_mean vs run
χ² / ndf 7.016e+06 / 80
p0 0.01276 ± 2.809e−05
pull
Entries 81
Mean 113.3
Std Dev 71.94

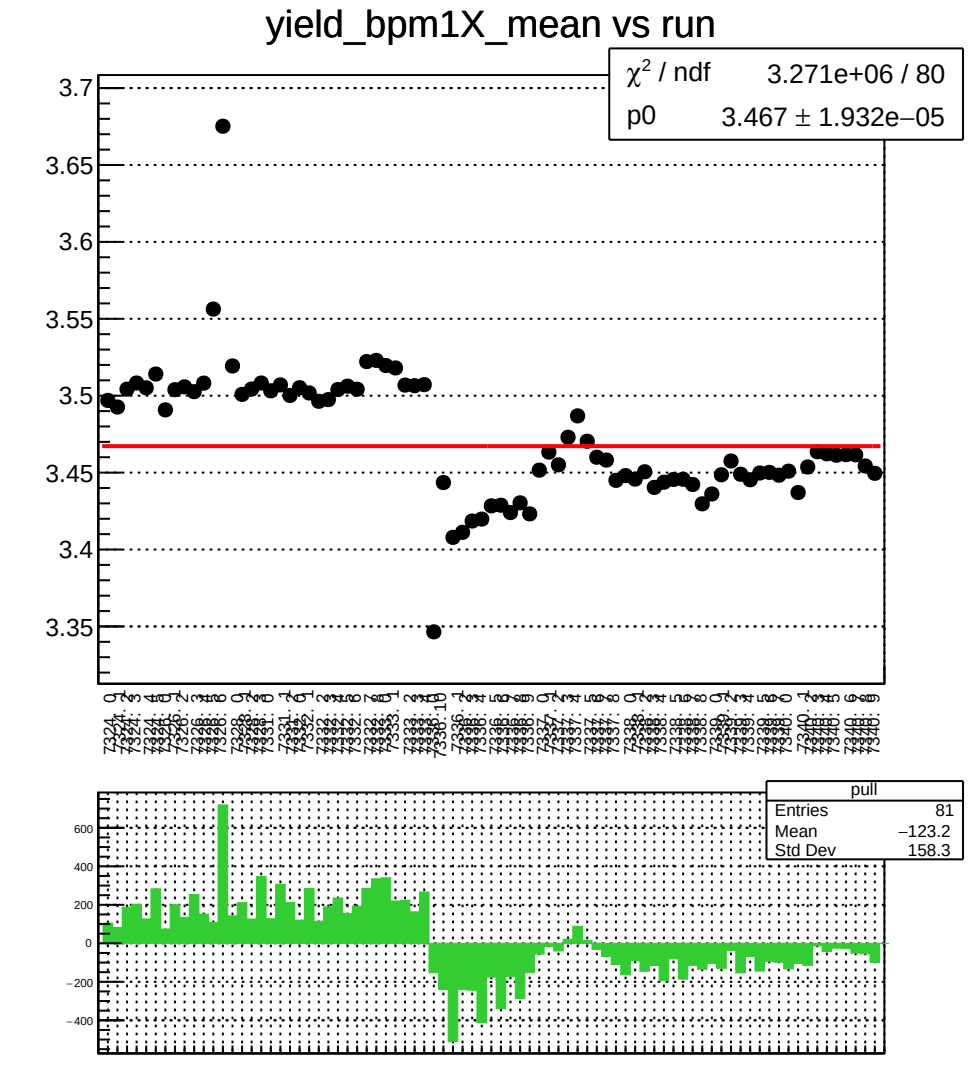

pull1D
Entries 81
Mean −3.218
Std Dev 0

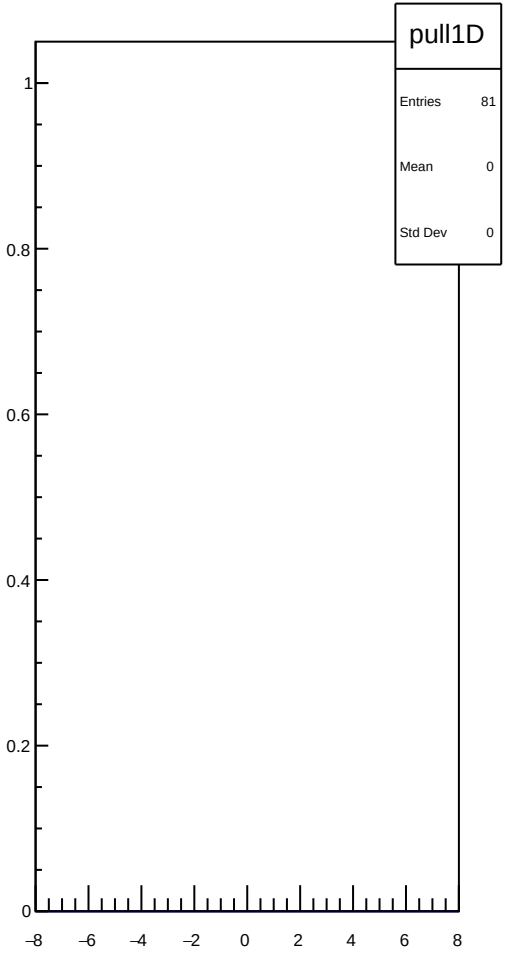

yield_bpm4ecX_rms vs run
χ² / ndf 3.099e+05 / 80
p0 0.0222 ± 1.986e−05
0.12
0.1
0.08
0.06
0.04
0.02

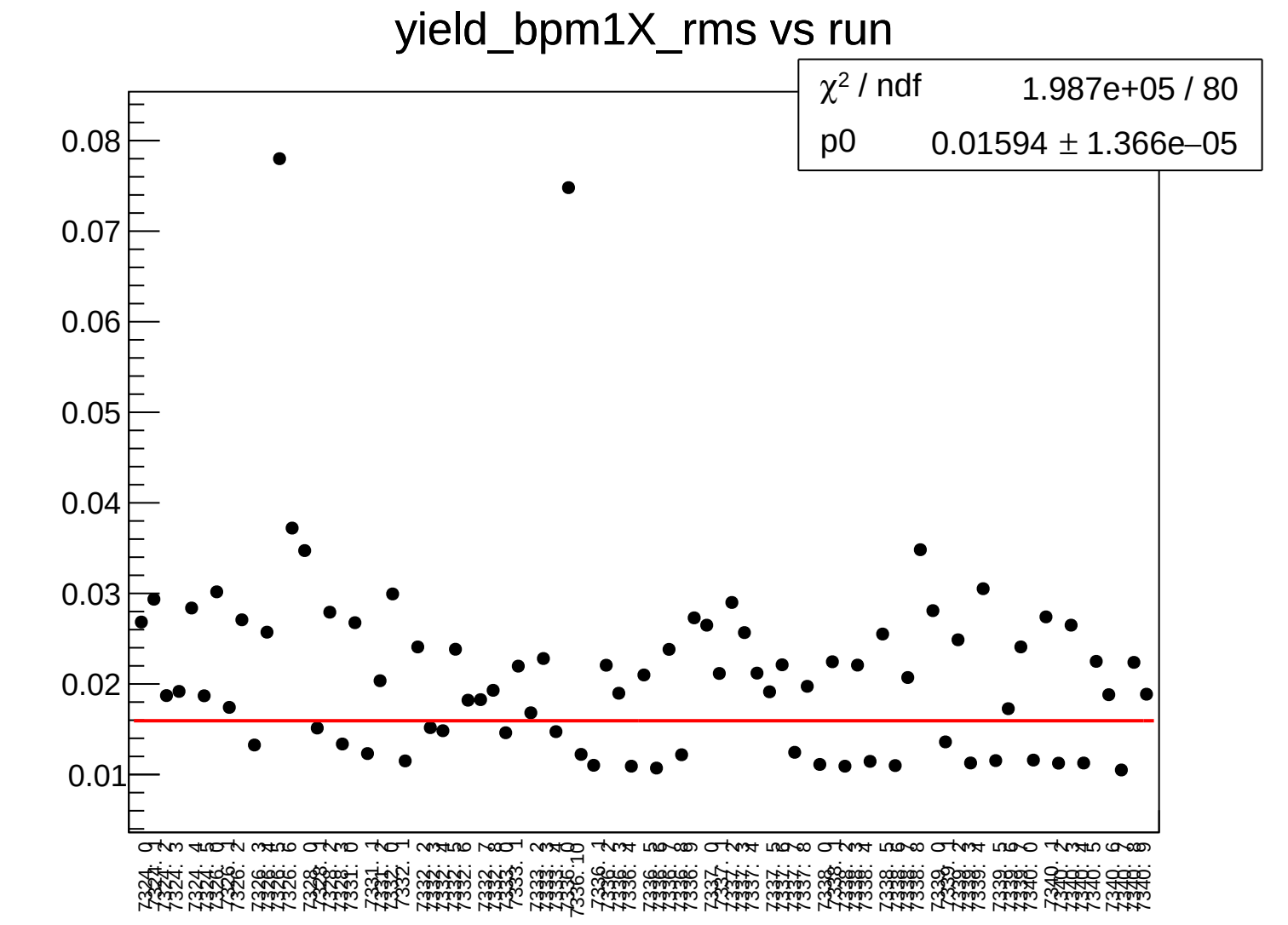

yield_bpm4ecY_mean vs run
χ² / ndf 2.413e+06 / 80
p0 0.05786 ± 1.494e−05
pull
Entries 81
Mean 106.6
Std Dev 63.13

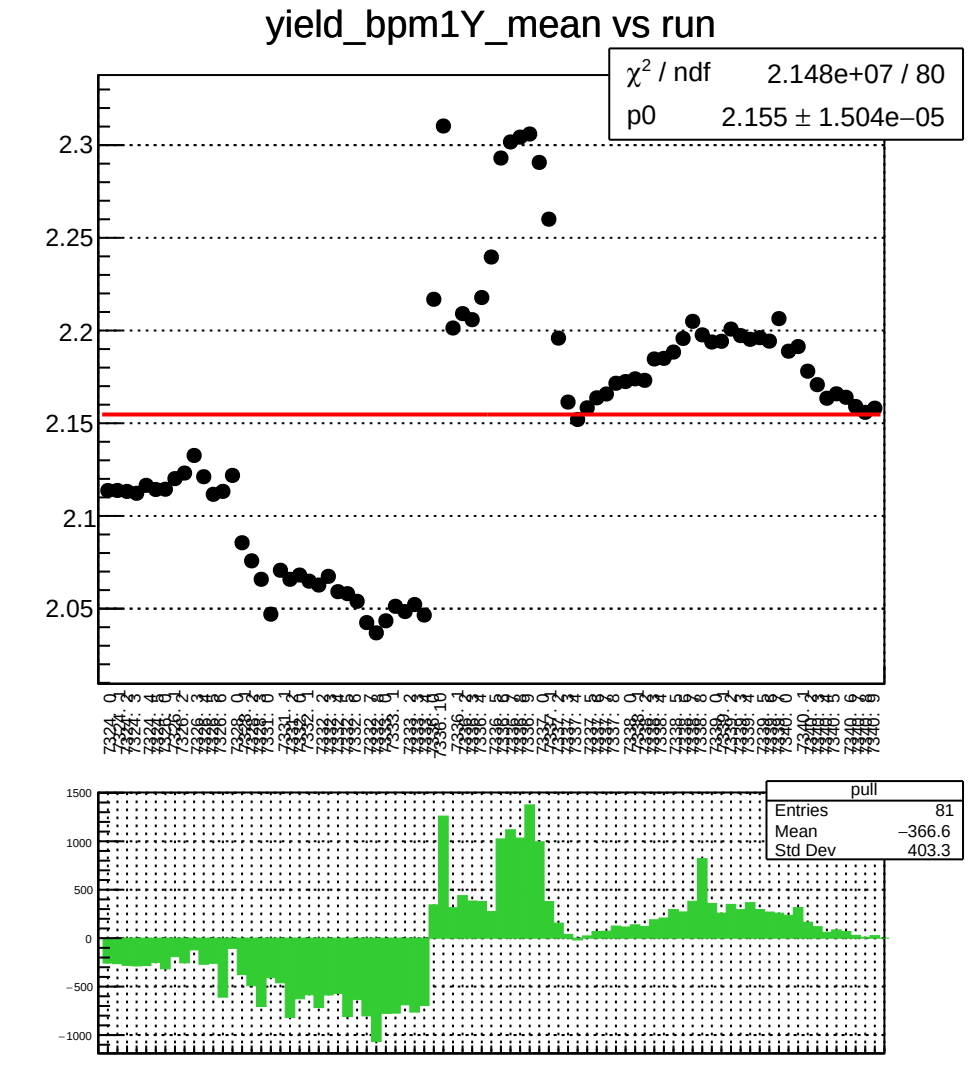

pull1D
Entries 81
Mean −1.708
Std Dev 6.204

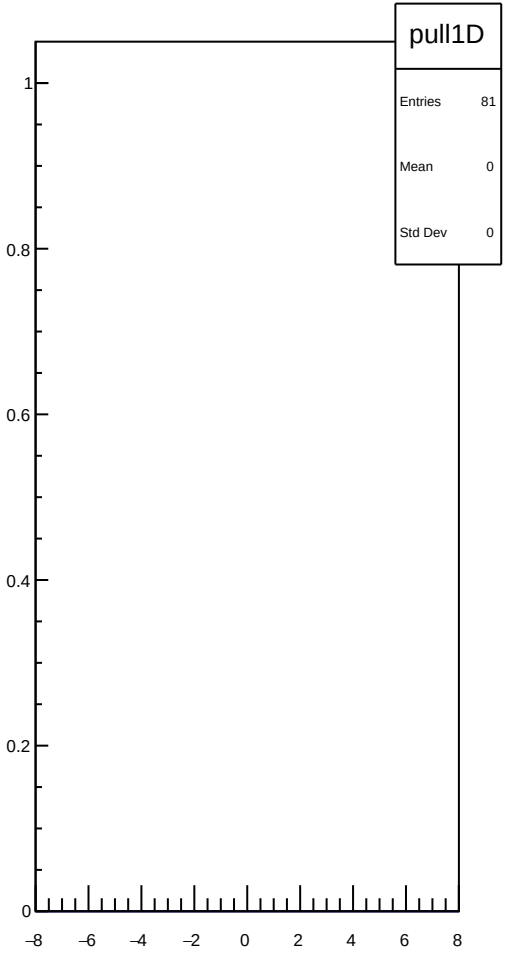

yield_bpm4ecY_rms vs run
χ² / ndf 2.465e+05 / 80
p0 0.01211 ± 1.057e–05
0.1
0.08
0.06
0.04
0.02

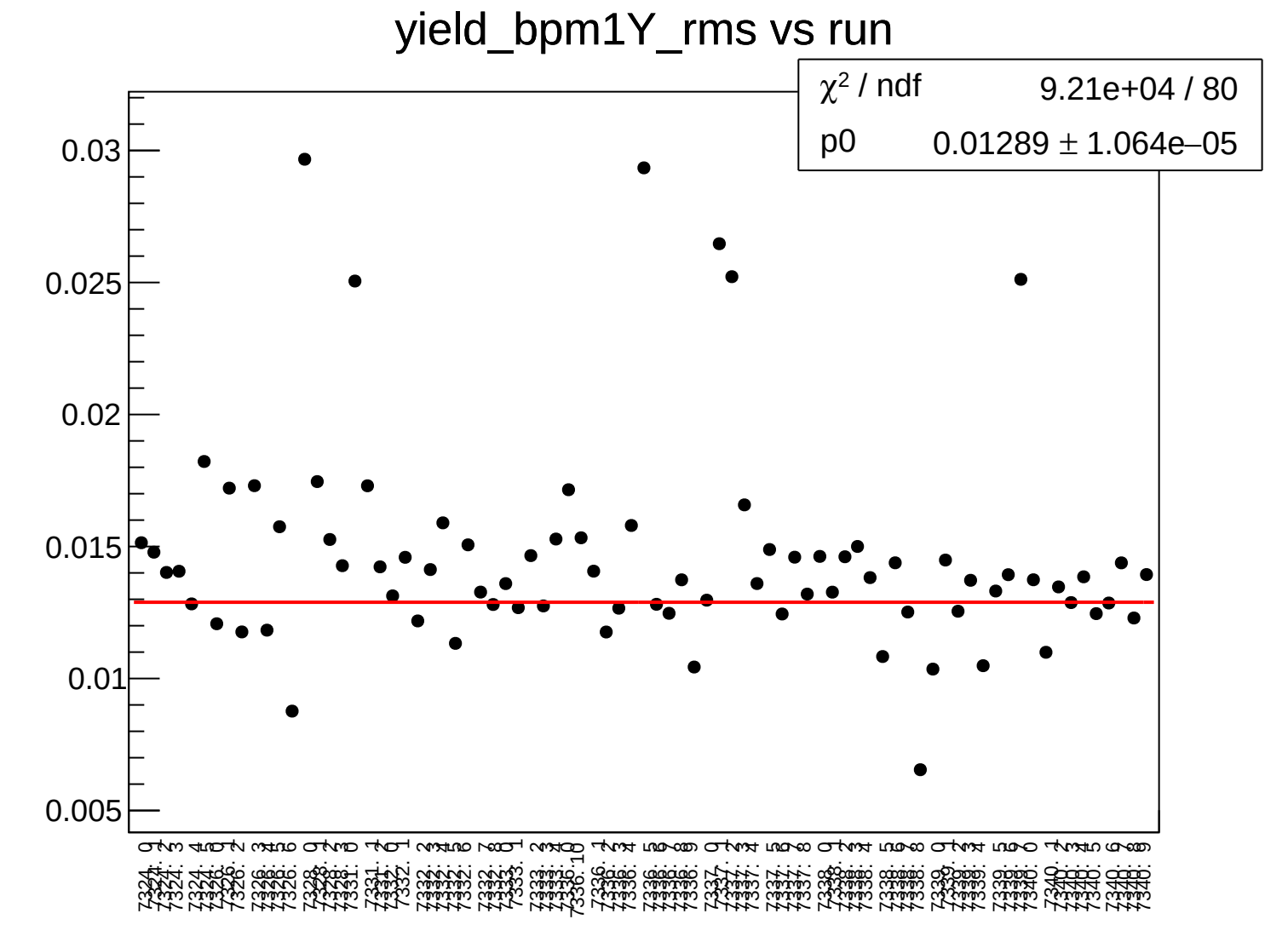

yield_bpm1X_mean vs run
χ² / ndf 3.271e+06 / 80
p0 3.467 ± 1.932e−05
3.7
3.65
3.6
3.55
3.5
3.45
3.4
3.35
pull
Entries 81
Mean −123.2
Std Dev 158.3
600
400
200
0
−200
−400

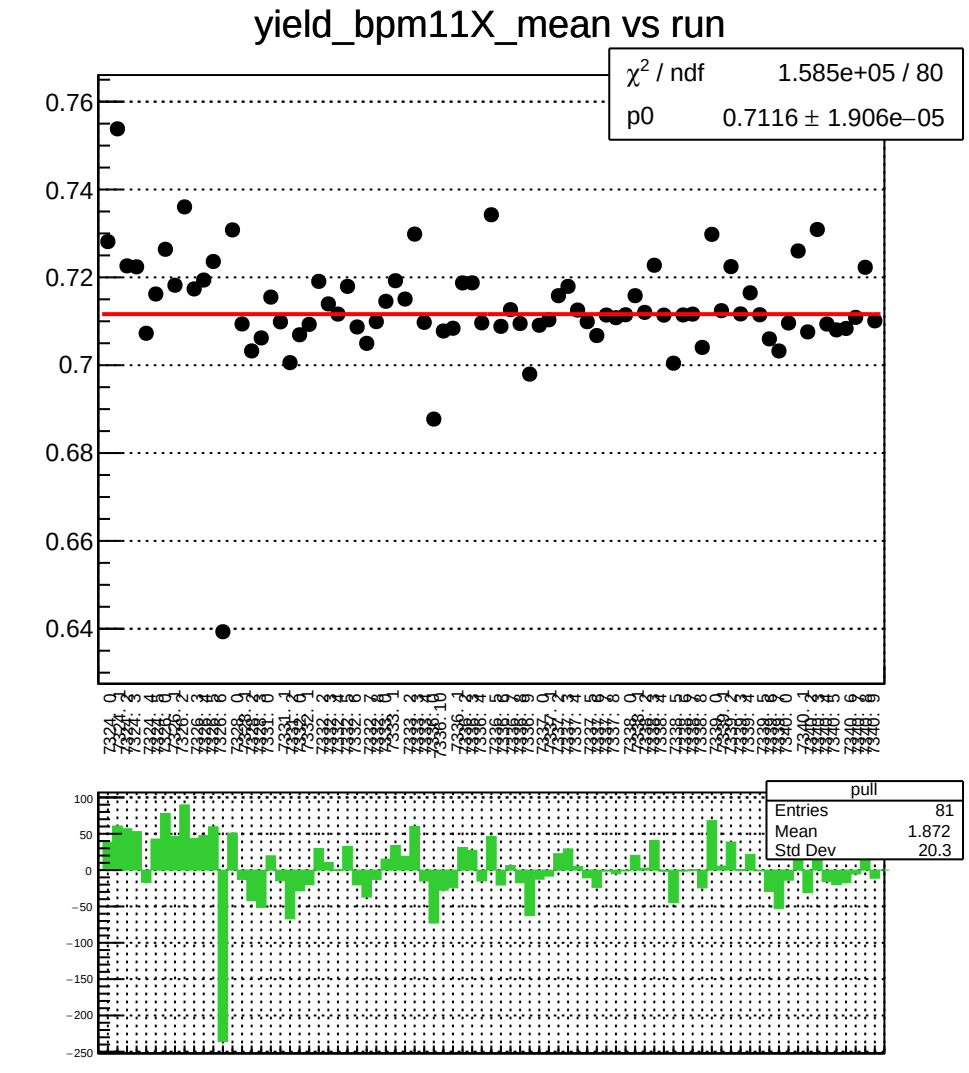

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

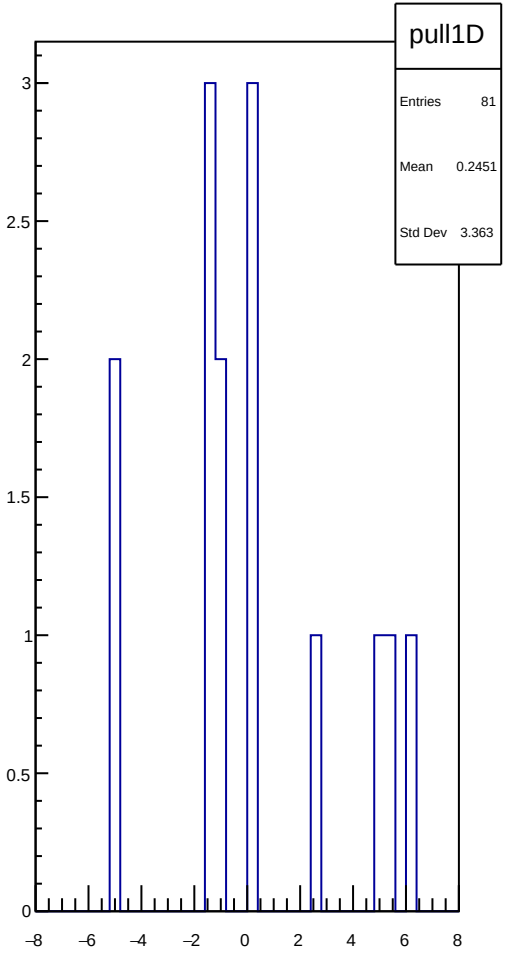

yield_bpm1X_rms vs run
χ² / ndf 1.987e+05 / 80
p0 0.01594 ± 1.366e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

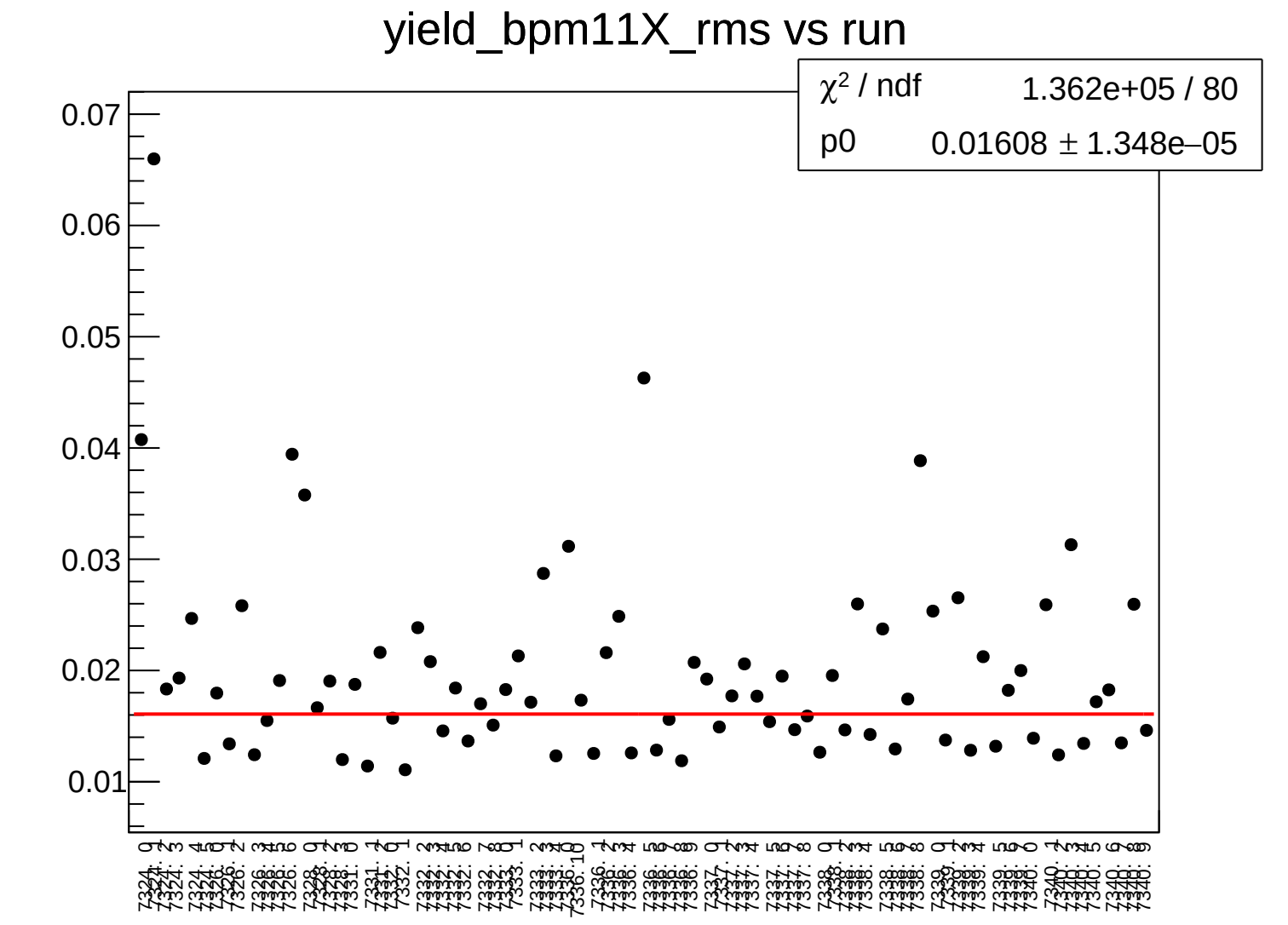

yield_bpm1Y_mean vs run
χ² / ndf 2.148e+07 / 80
p0 2.155 ± 1.504e−05
2.3
2.25
2.2
2.15
2.1
2.05
pull
Entries 81
Mean −366.6
Std Dev 403.3
1500
1000
500
0
−500
−1000

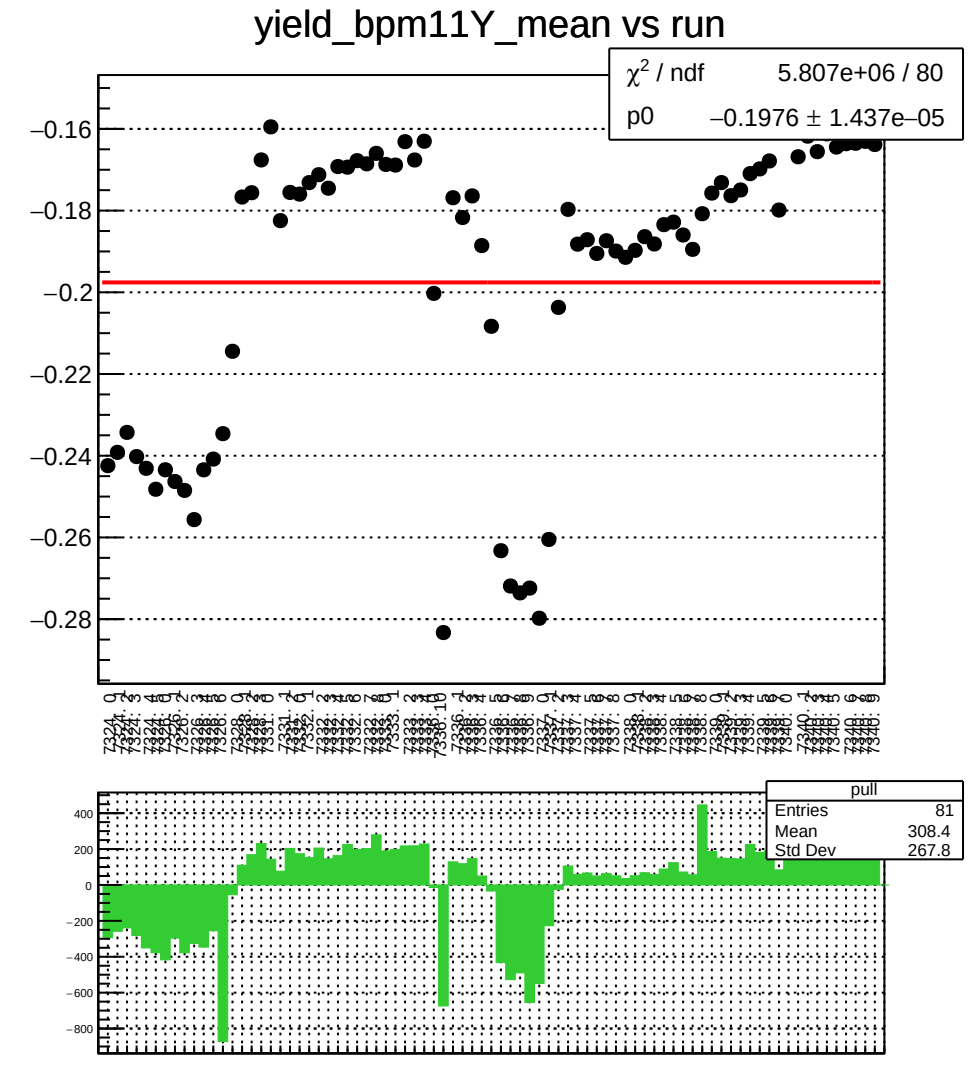

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

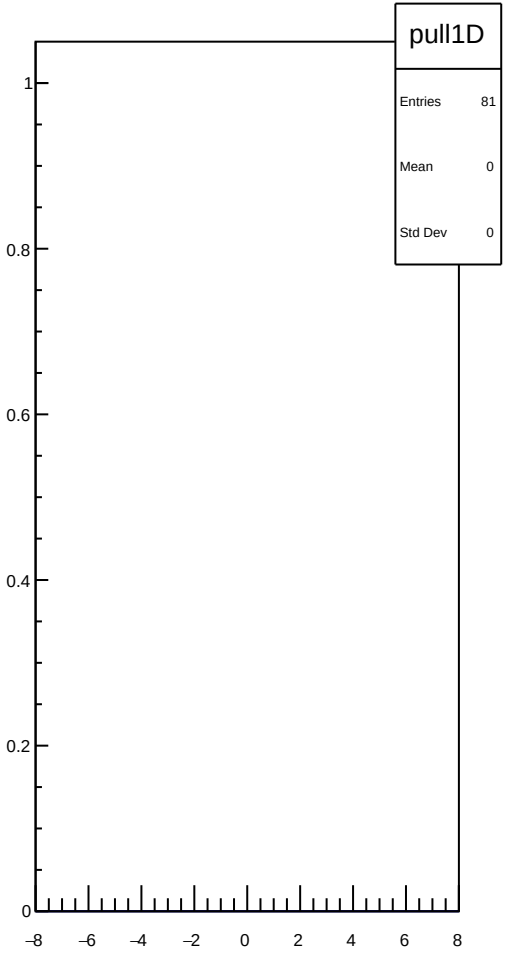

yield_bpm1Y_rms vs run
χ² / ndf 9.21e+04 / 80
p0 0.01289 ± 1.064e−05
0.03
0.025
0.02
0.015
0.01
0.005

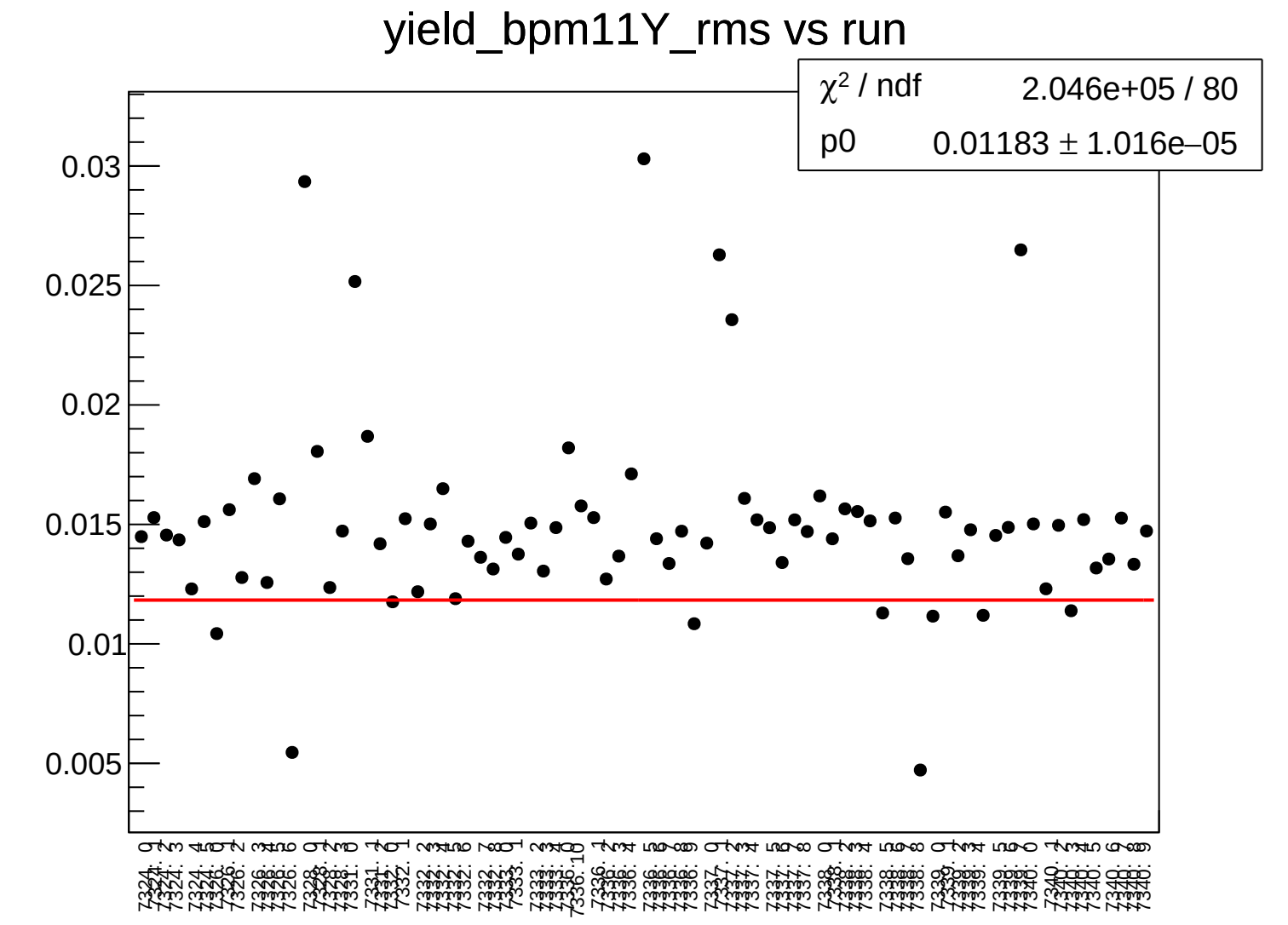

yield_bpm11X_mean vs run
χ² / ndf 1.585e+05 / 80
p0 0.7116 ± 1.906e−05
0.76
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 81
Mean 1.872
Std Dev 20.3
100
50
0
−50
−100
−150
−200
−250

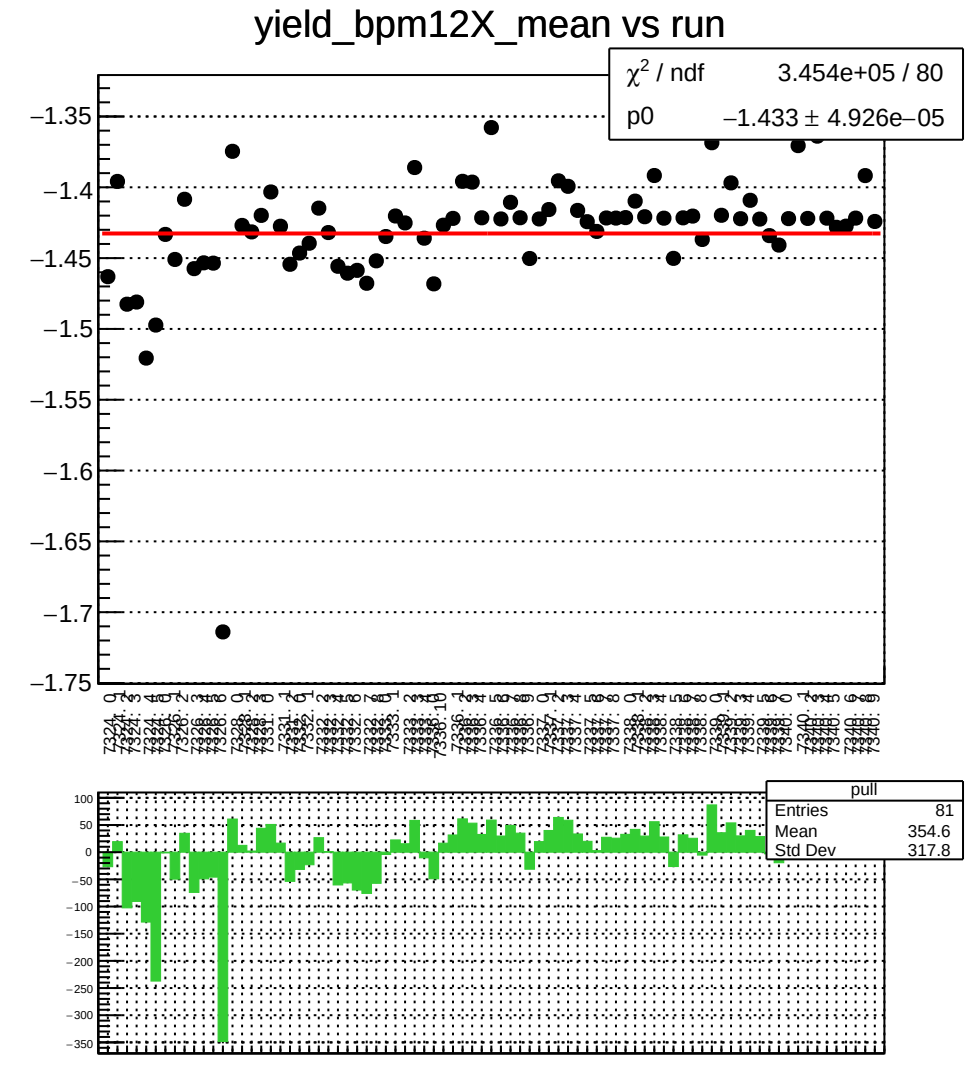

pull1D
Entries 81
Mean 0.2451
Std Dev 3.363
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

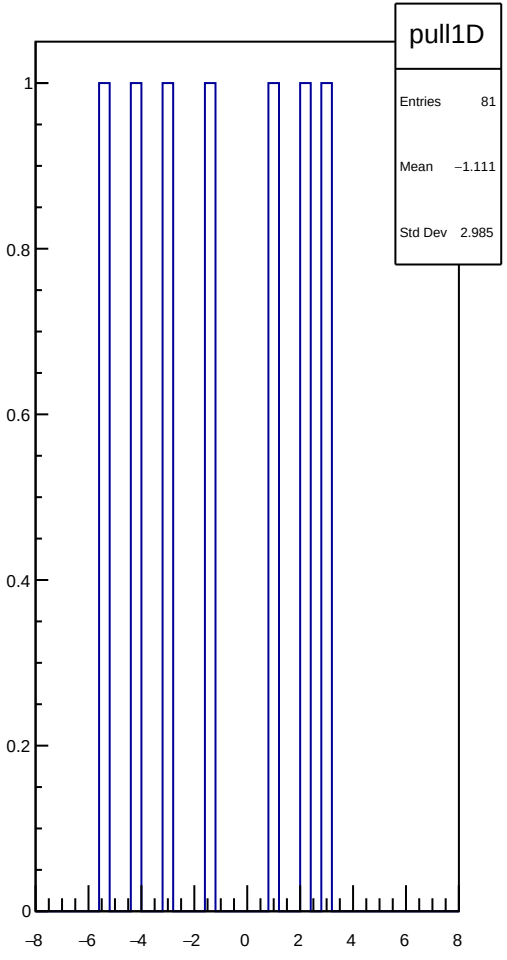

yield_bpm11X_rms vs run
χ² / ndf 1.362e+05 / 80
p0 0.01608 ± 1.348e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

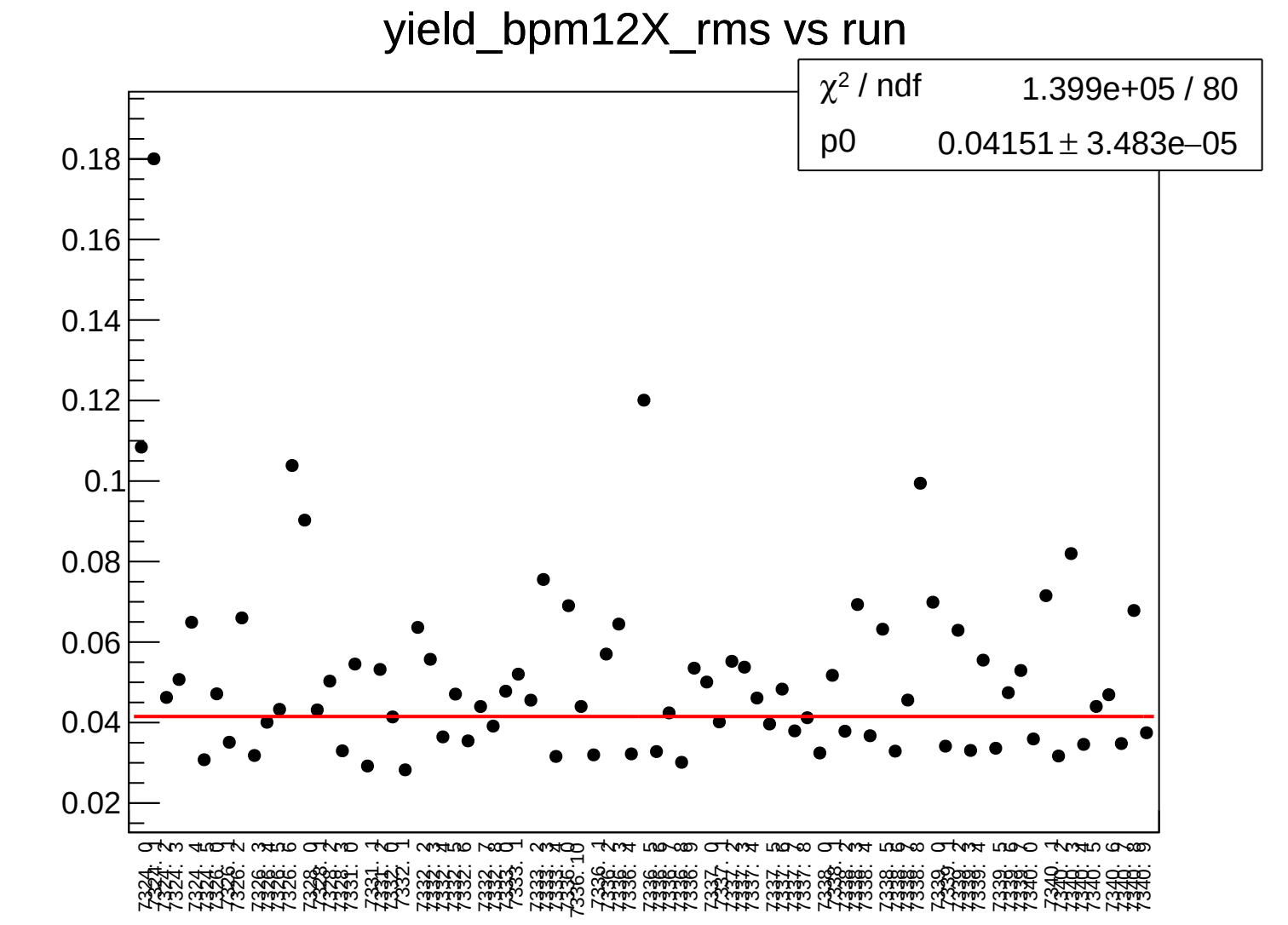

yield_bpm11Y_mean vs run
χ² / ndf 5.807e+06 / 80
p0 −0.1976 ± 1.437e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 81
Mean 308.4
Std Dev 267.8
400
200
0
−200
−400
−600
−800

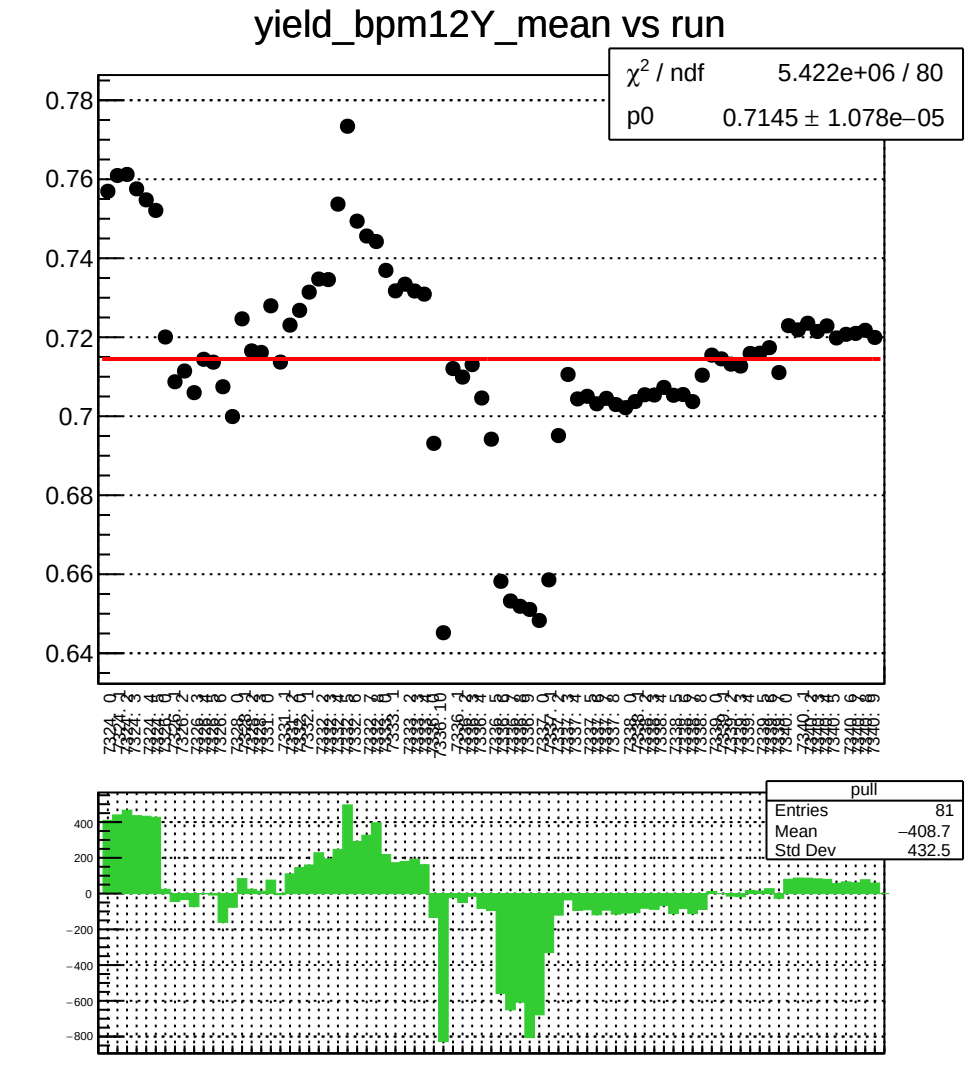

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

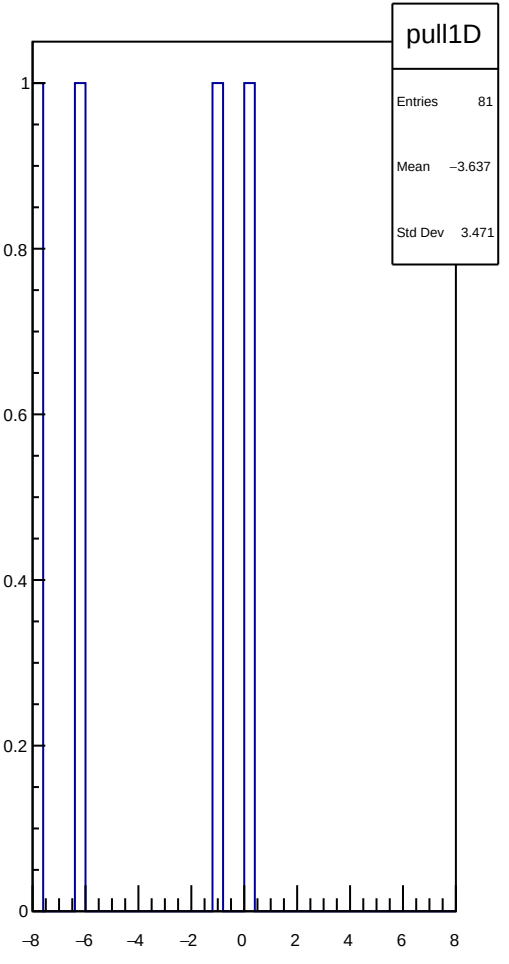

yield_bpm11Y_rms vs run
χ² / ndf 2.046e+05 / 80
p0 0.01183 ± 1.016e−05
0.03
0.025
0.02
0.015
0.01
0.005

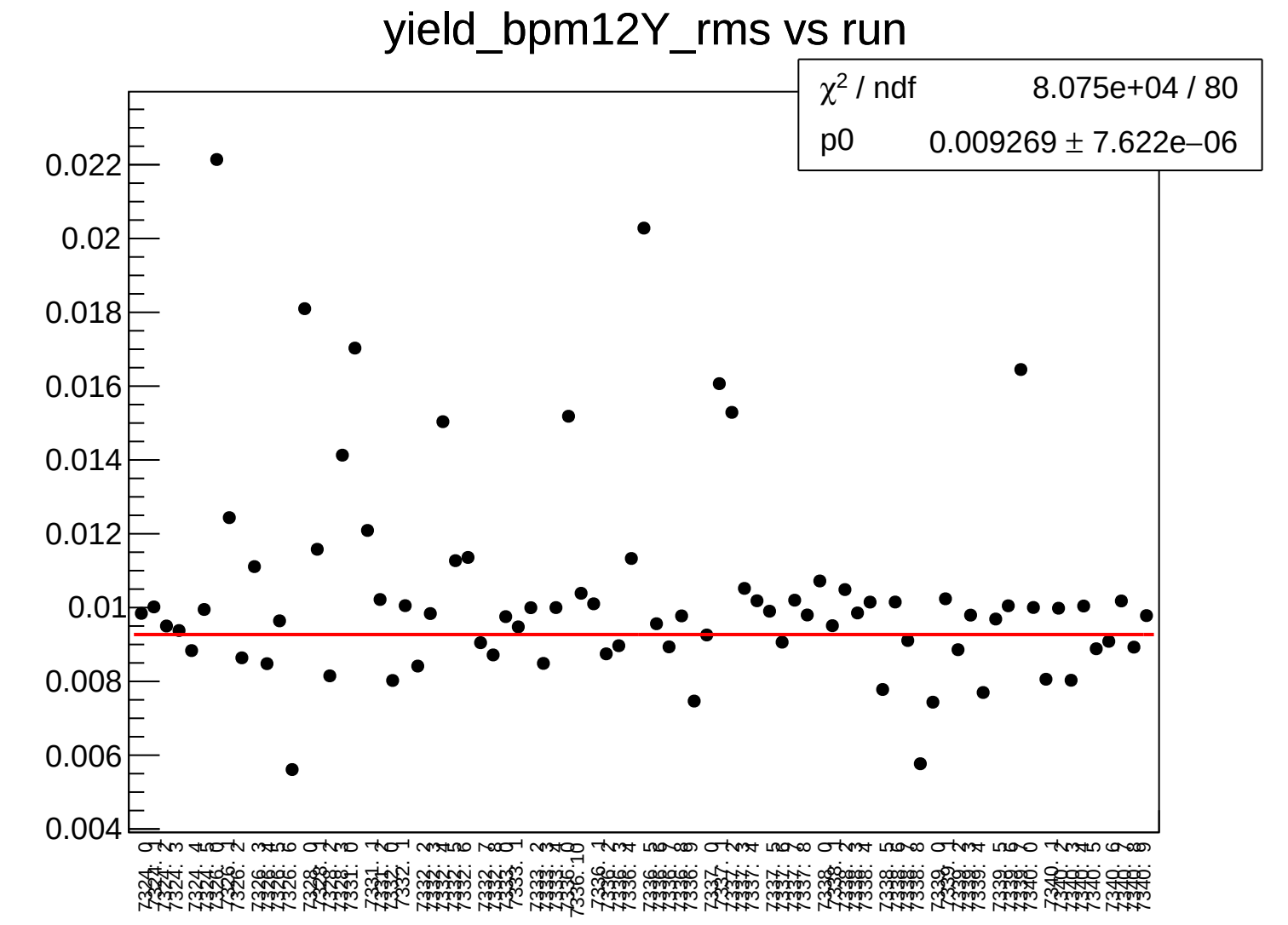

yield_bpm12X_mean vs run
χ² / ndf 3.454e+05 / 80
p0 −1.433 ± 4.926e−05
pull
Entries 81
Mean 354.6
Std Dev 317.8

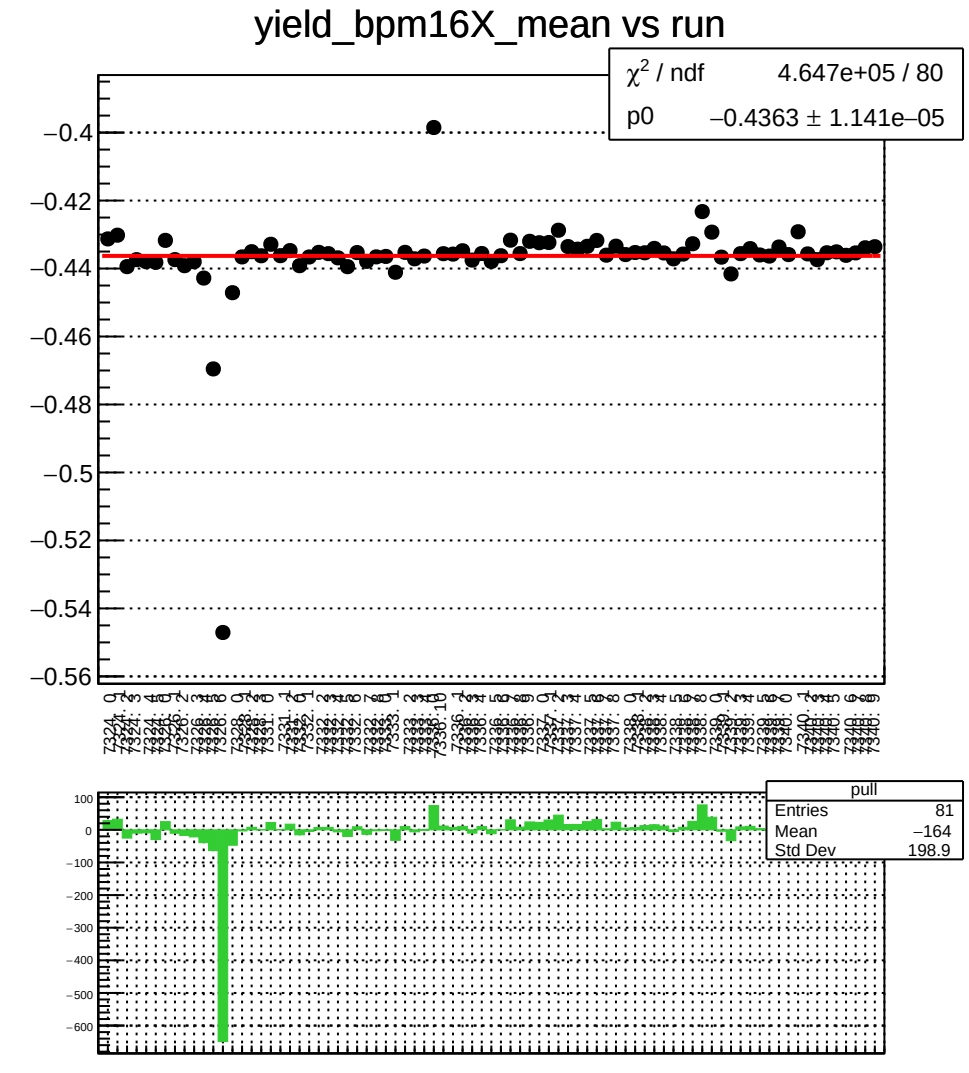

pull1D
Entries 81
Mean −1.111
Std Dev 2.985

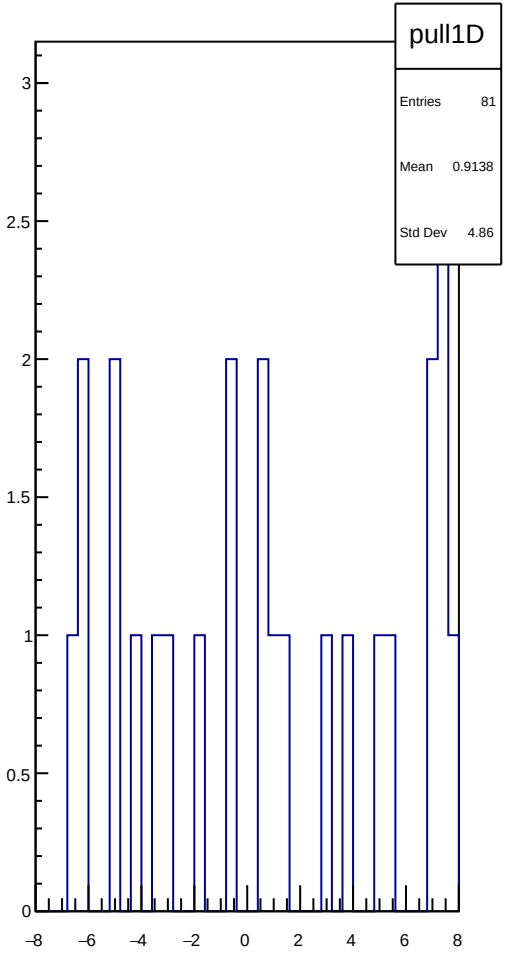

yield_bpm12X_rms vs run
χ² / ndf 1.399e+05 / 80
p0 0.04151 ± 3.483e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

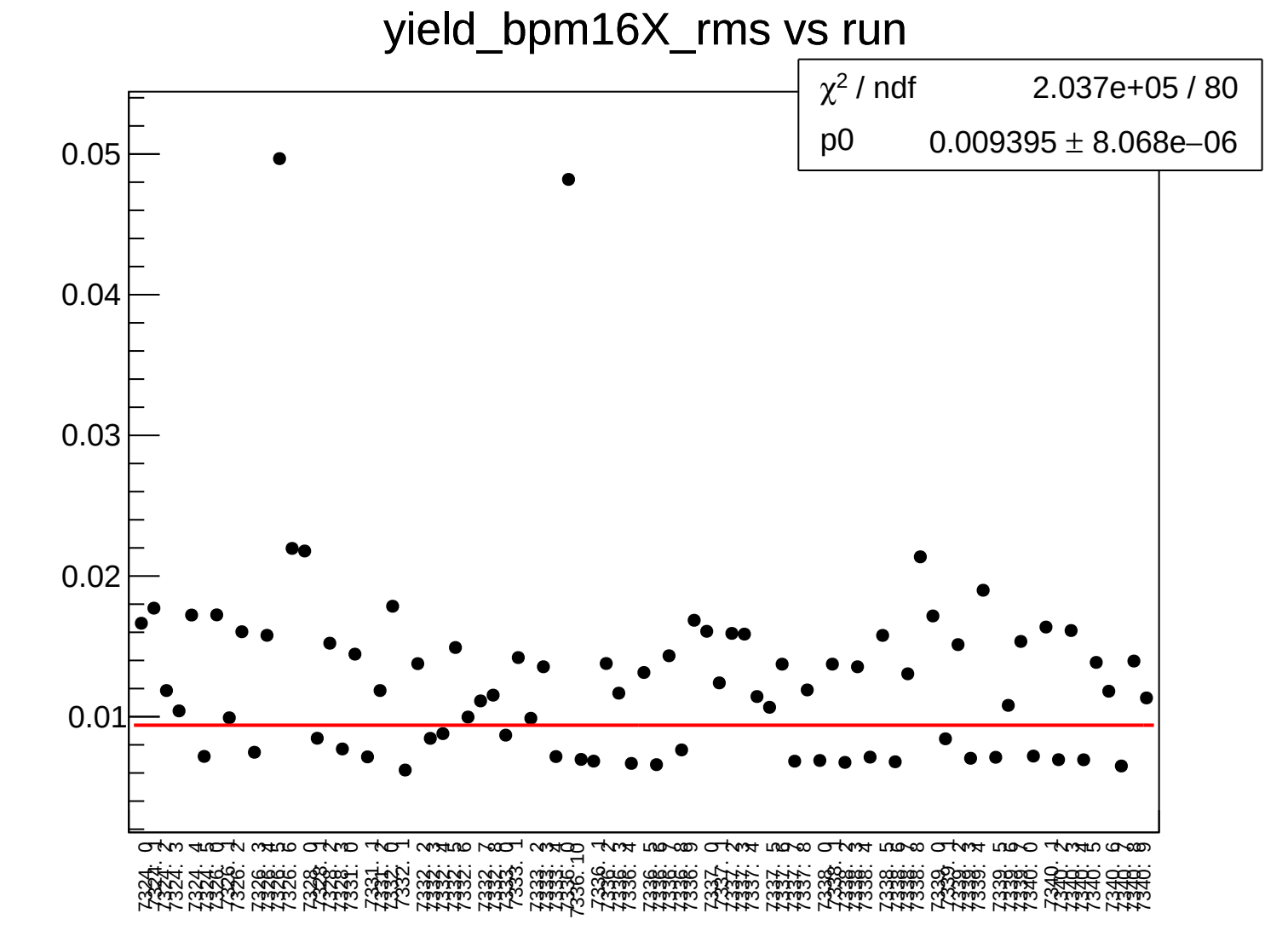

yield_bpm12Y_mean vs run
χ² / ndf 5.422e+06 / 80
p0 0.7145 ± 1.078e−05
0.78
0.76
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 81
Mean −408.7
Std Dev 432.5
400
200
0
−200
−400
−600
−800

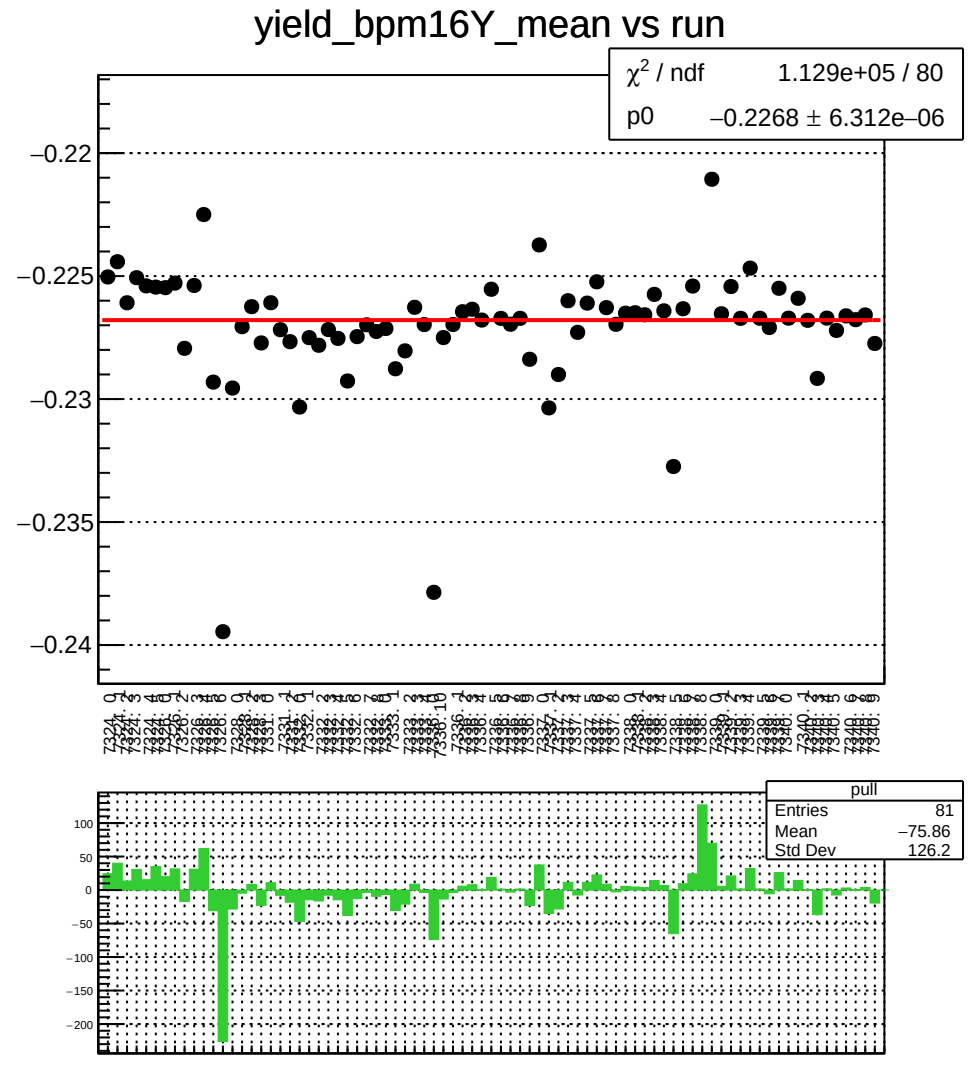

pull1D
Entries 81
Mean −3.637
Std Dev 3.471
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

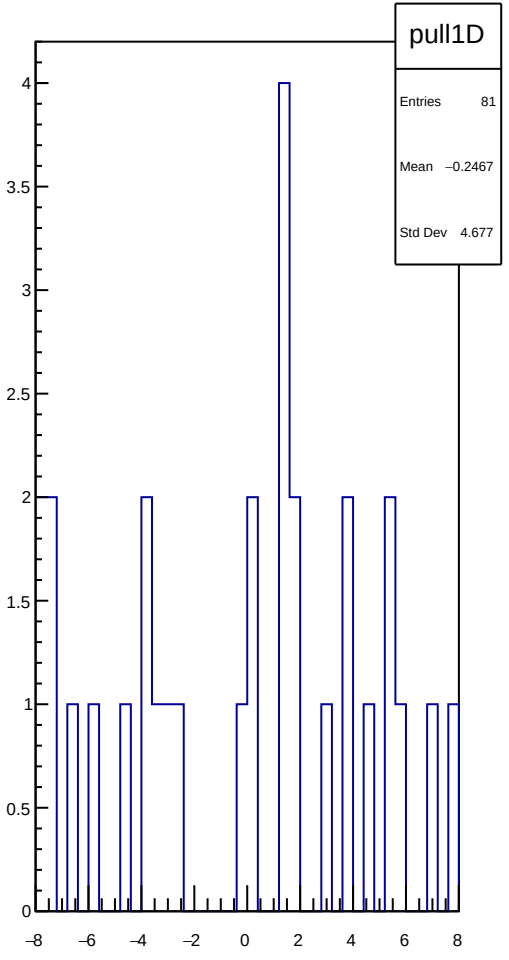

yield_bpm12Y_rms vs run
χ² / ndf 8.075e+04 / 80
p0 0.009269 ± 7.622e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

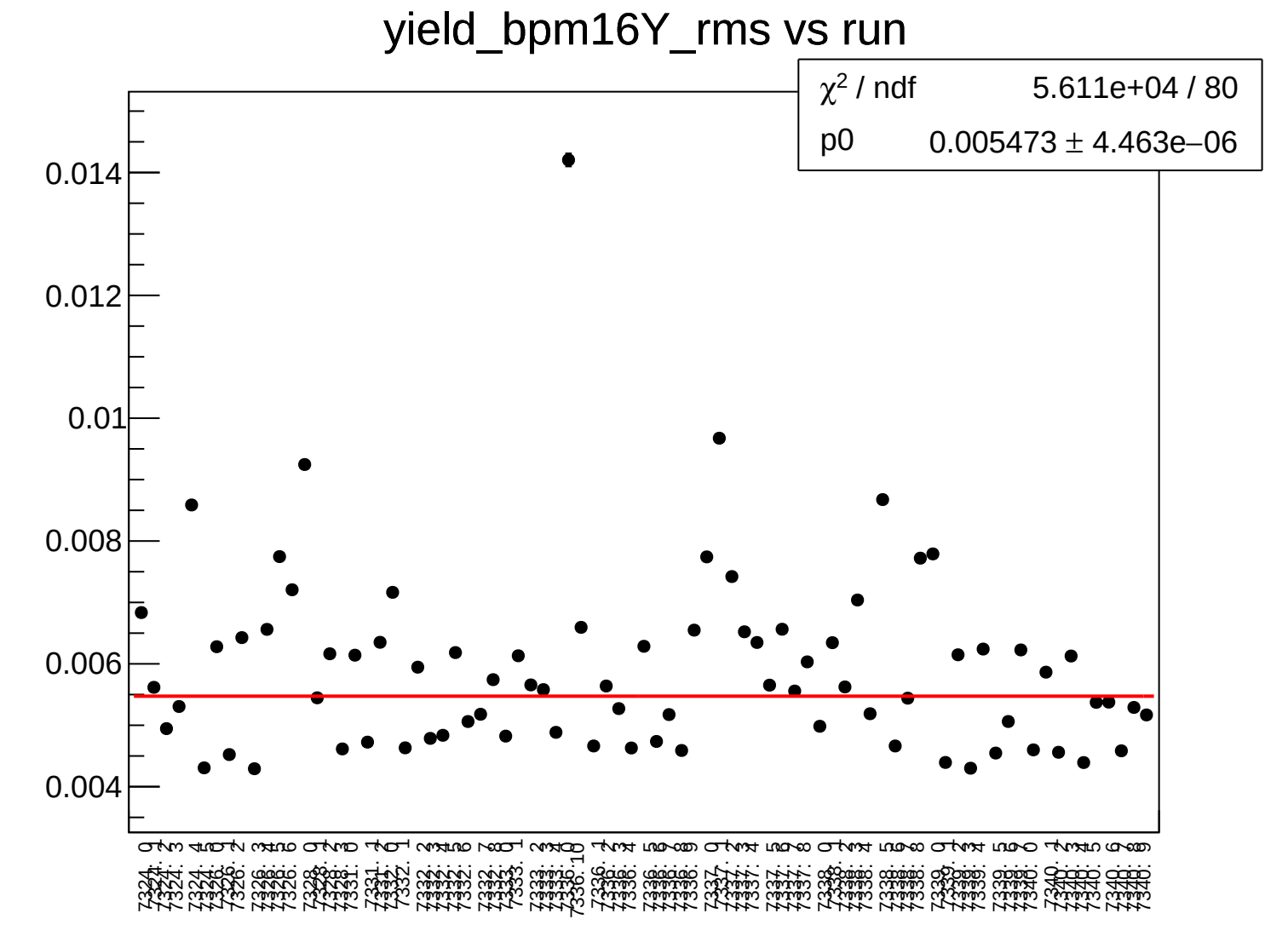

yield_bpm16X_mean vs run
χ² / ndf 4.647e+05 / 80
p0 −0.4363 ± 1.141e−05
pull
Entries 81
Mean −164
Std Dev 198.9

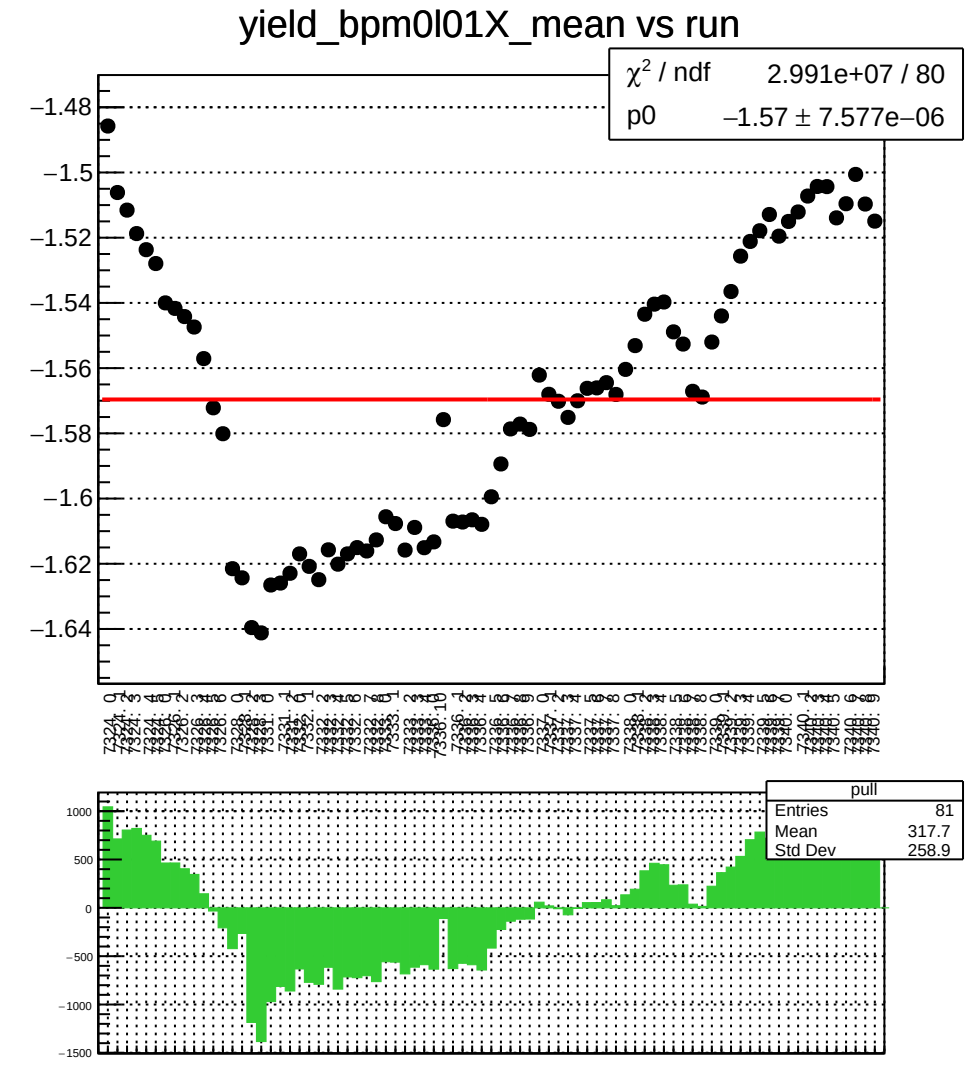

pull1D
Entries 81
Mean 0.9138
Std Dev 4.86

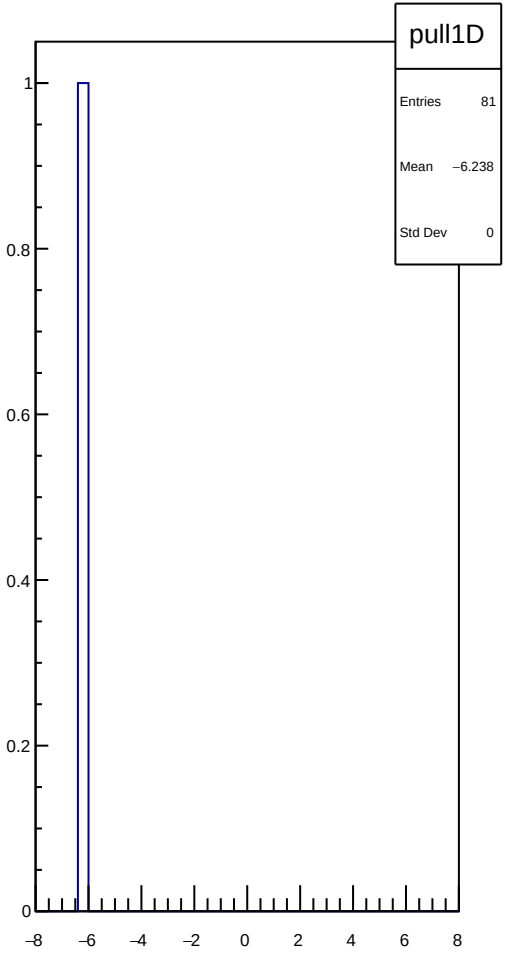

yield_bpm16X_rms vs run
χ² / ndf 2.037e+05 / 80
p0 0.009395 ± 8.068e−06
0.05
0.04
0.03
0.02
0.01

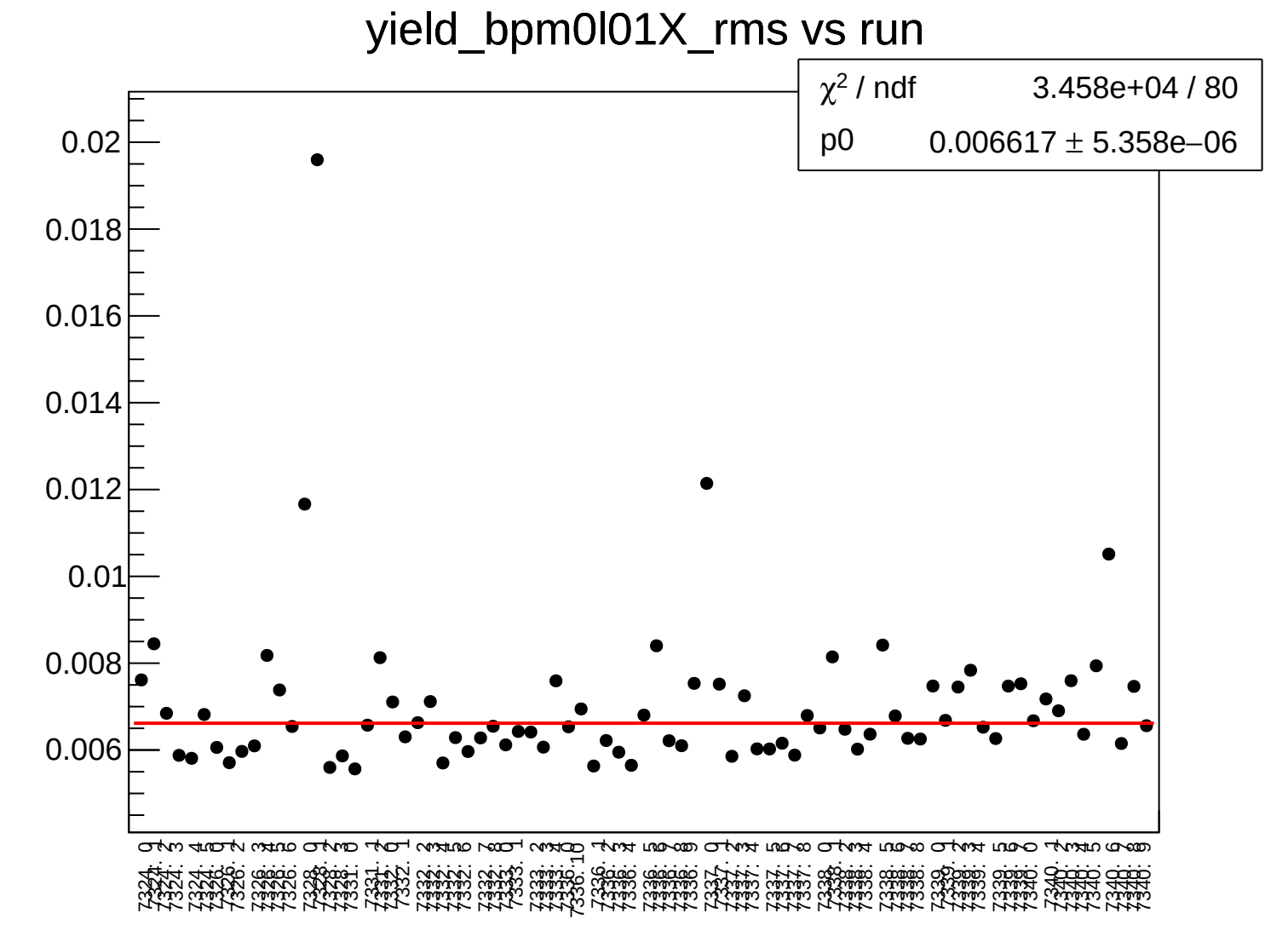

yield_bpm16Y_mean vs run
χ² / ndf 1.129e+05 / 80
p0 −0.2268 ± 6.312e−06
−0.22
−0.225
−0.23
−0.235
−0.24
pull
Entries 81
Mean −75.86
Std Dev 126.2
100
50
0
−50
−100
−150
−200

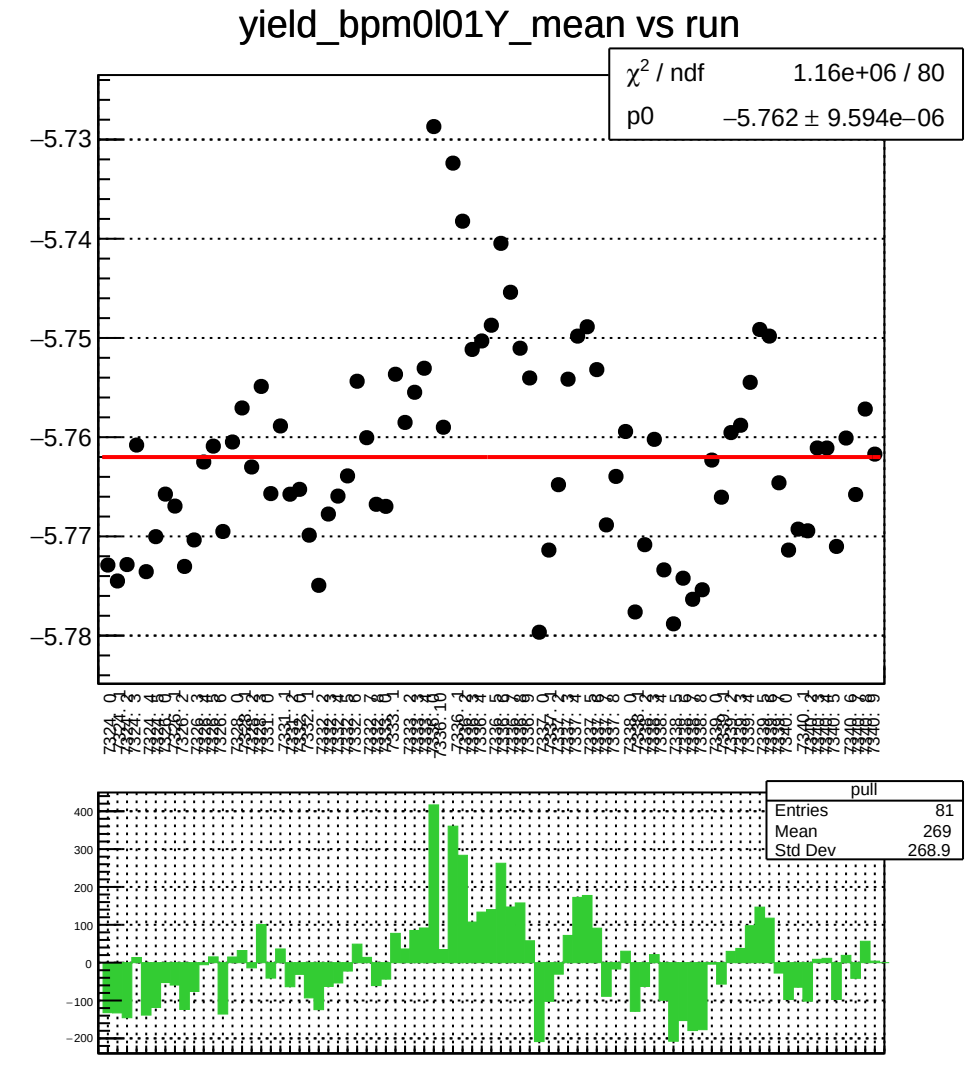

pull1D
Entries 81
Mean −0.2467
Std Dev 4.677
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

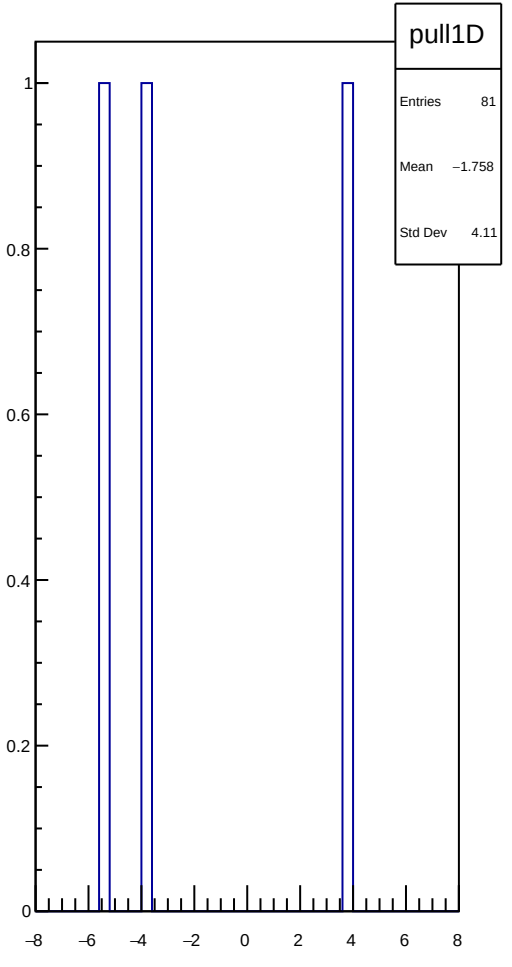

yield_bpm16Y_rms vs run
χ² / ndf 5.611e+04 / 80
p0 0.005473 ± 4.463e−06
0.014
0.012
0.01
0.008
0.006
0.004

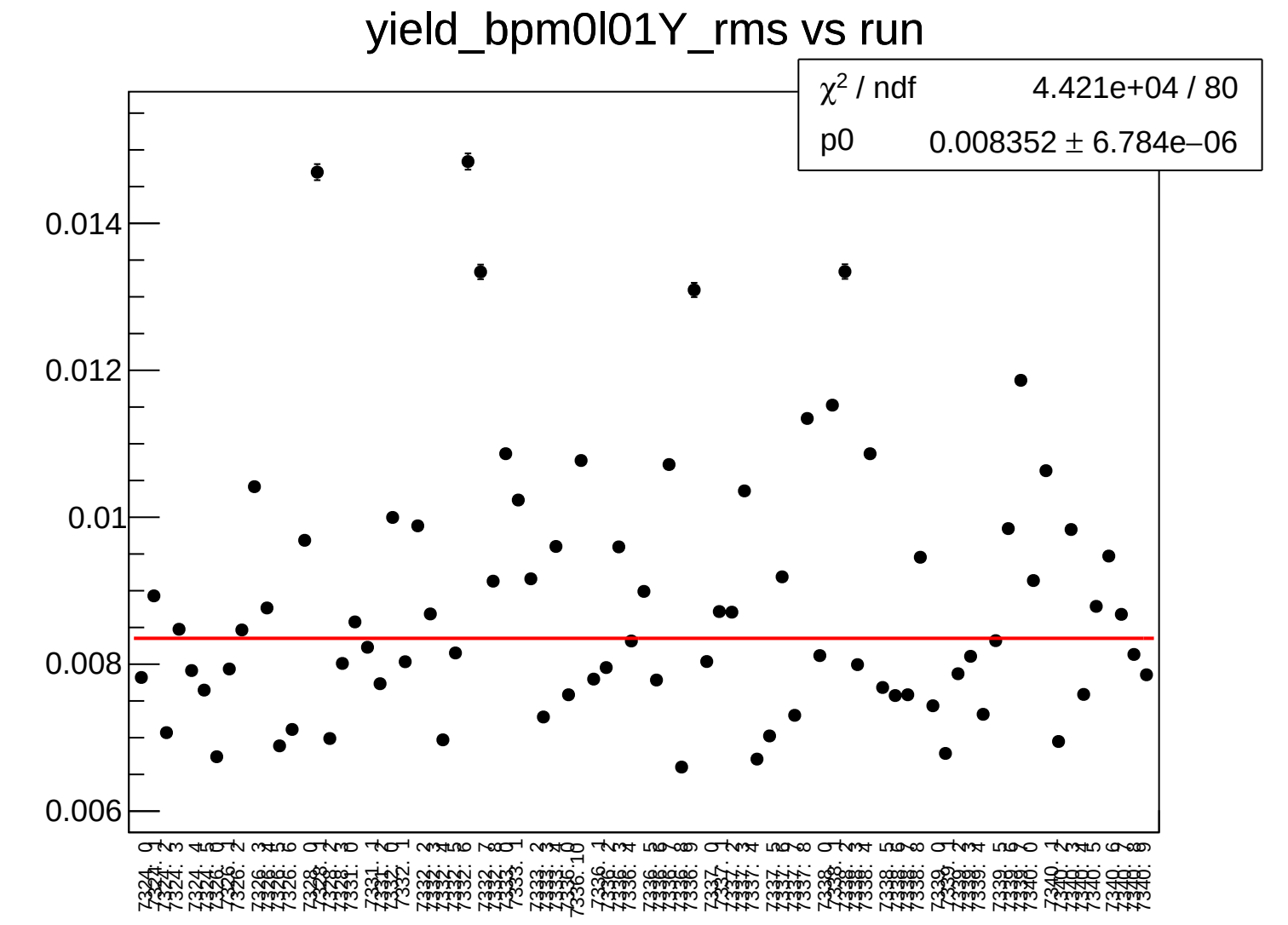

yield_bpm0l01X_mean vs run
χ² / ndf 2.991e+07 / 80
p0 −1.57 ± 7.577e−06
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
−1.6
−1.62
−1.64
pull
Entries 81
Mean 317.7
Std Dev 258.9
1000
500
0
−500
−1000
−1500

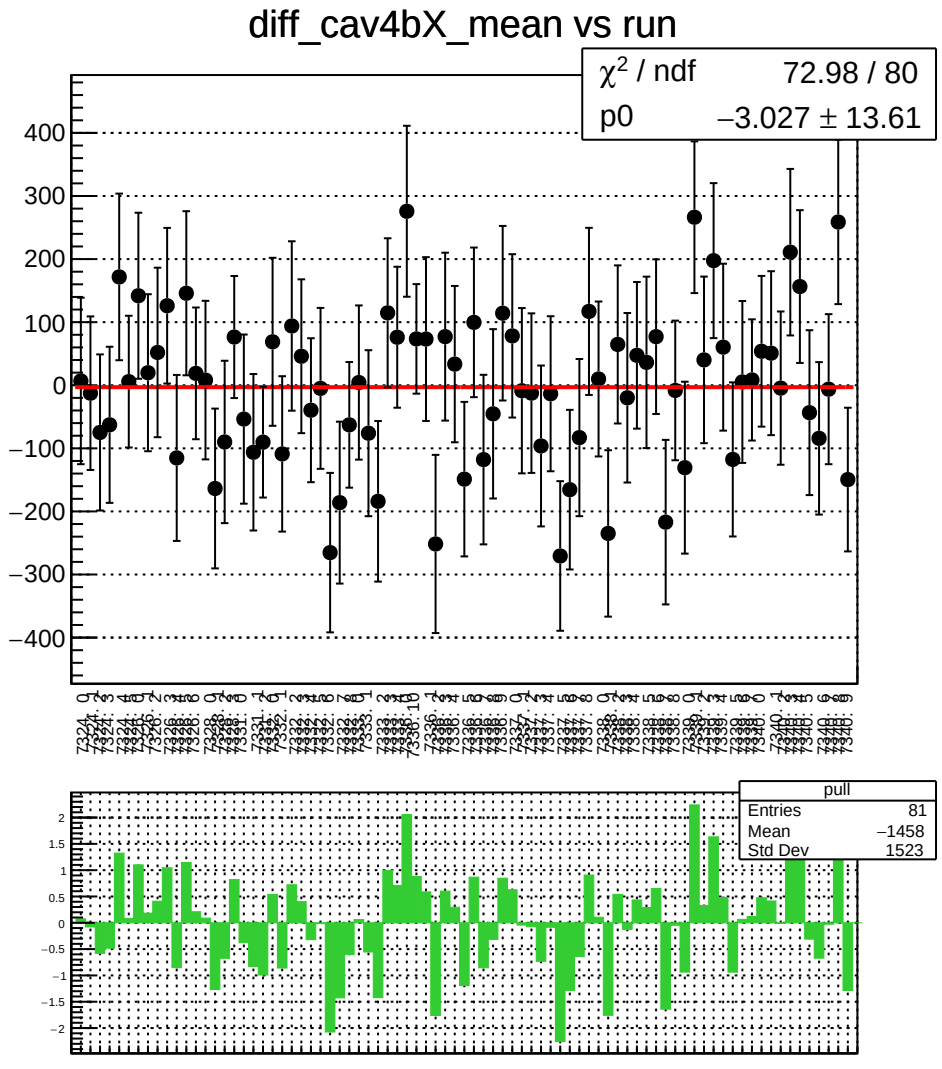

pull1D
Entries 81
Mean −6.238
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

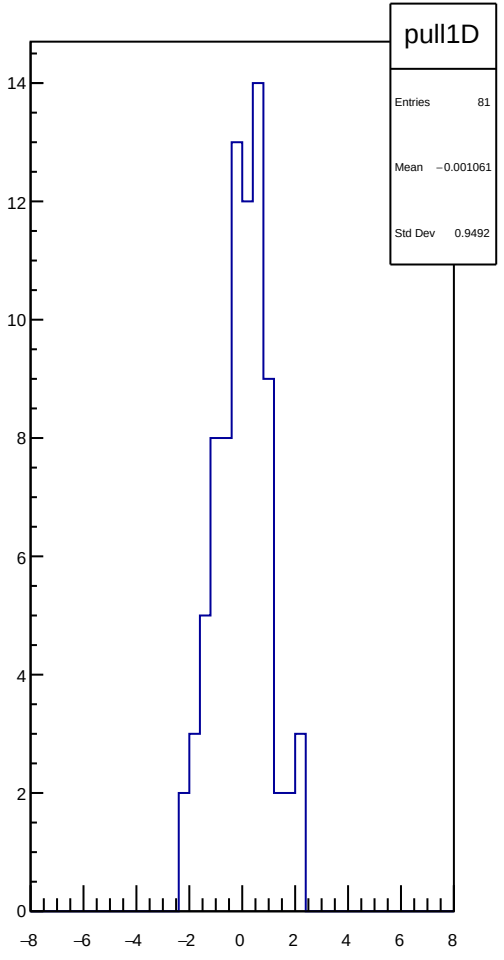

yield_bpm0l01X_rms vs run
χ^2 / ndf 3.458e+04 / 80
p0 0.006617 ± 5.358e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

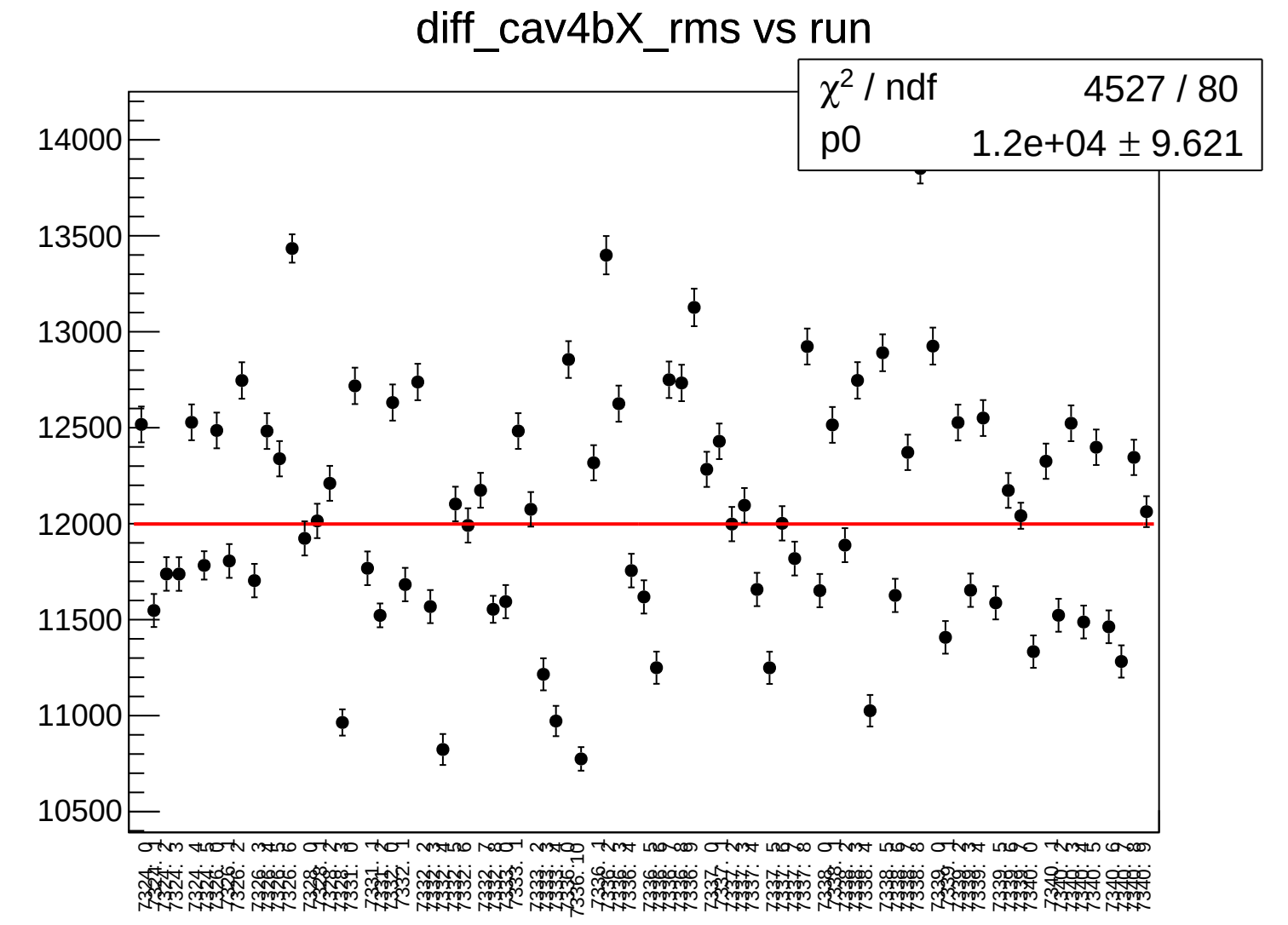

yield_bpm0l01Y_mean vs run
χ² / ndf 1.16e+06 / 80
p0 −5.762 ± 9.594e−06
−5.73
−5.74
−5.75
−5.76
−5.77
−5.78
pull
Entries 81
Mean 269
Std Dev 268.9
400
300
200
100
0
−100
−200

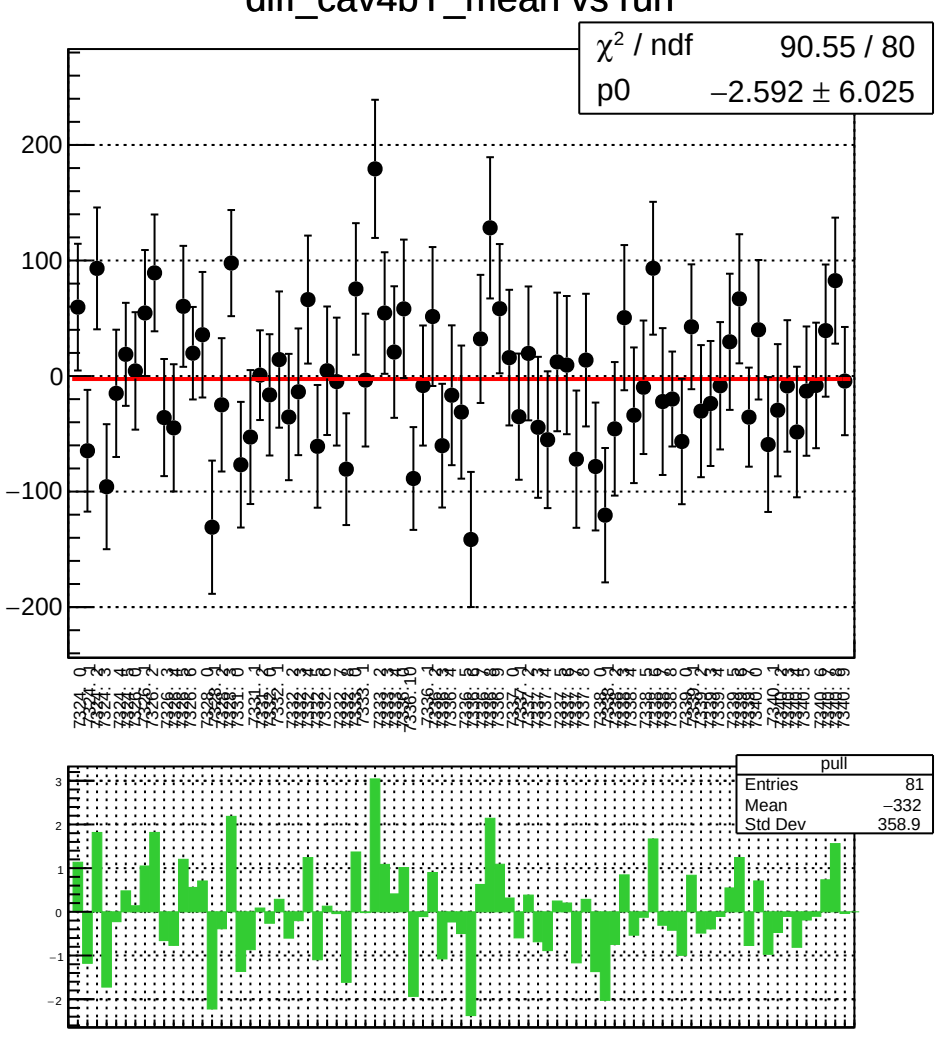

pull1D
Entries 81
Mean −1.758
Std Dev 4.11
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

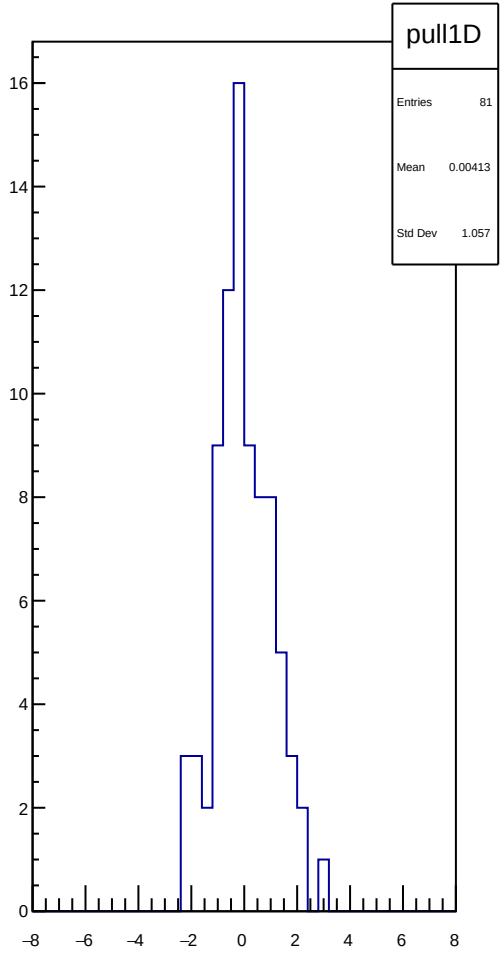

yield_bpm0l01Y_rms vs run
χ^2 / ndf 4.421e+04 / 80
p0 0.008352 ± 6.784e−06
0.014
0.012
0.01
0.008
0.006

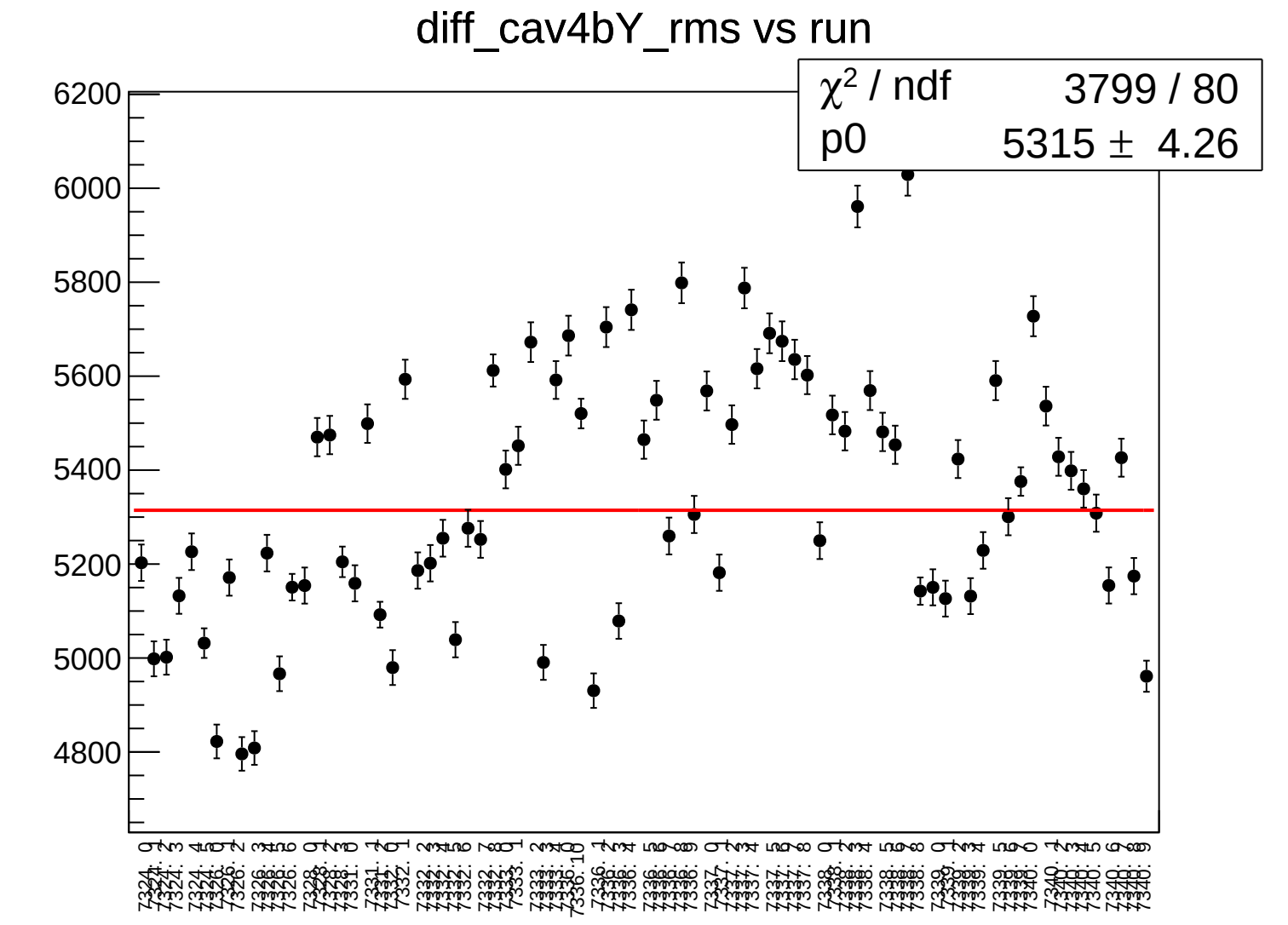

diff_cav4bX_mean vs run
χ² / ndf 72.98 / 80
p0 −3.027 ± 13.61
pull
Entries 81
Mean −1458
Std Dev 1523

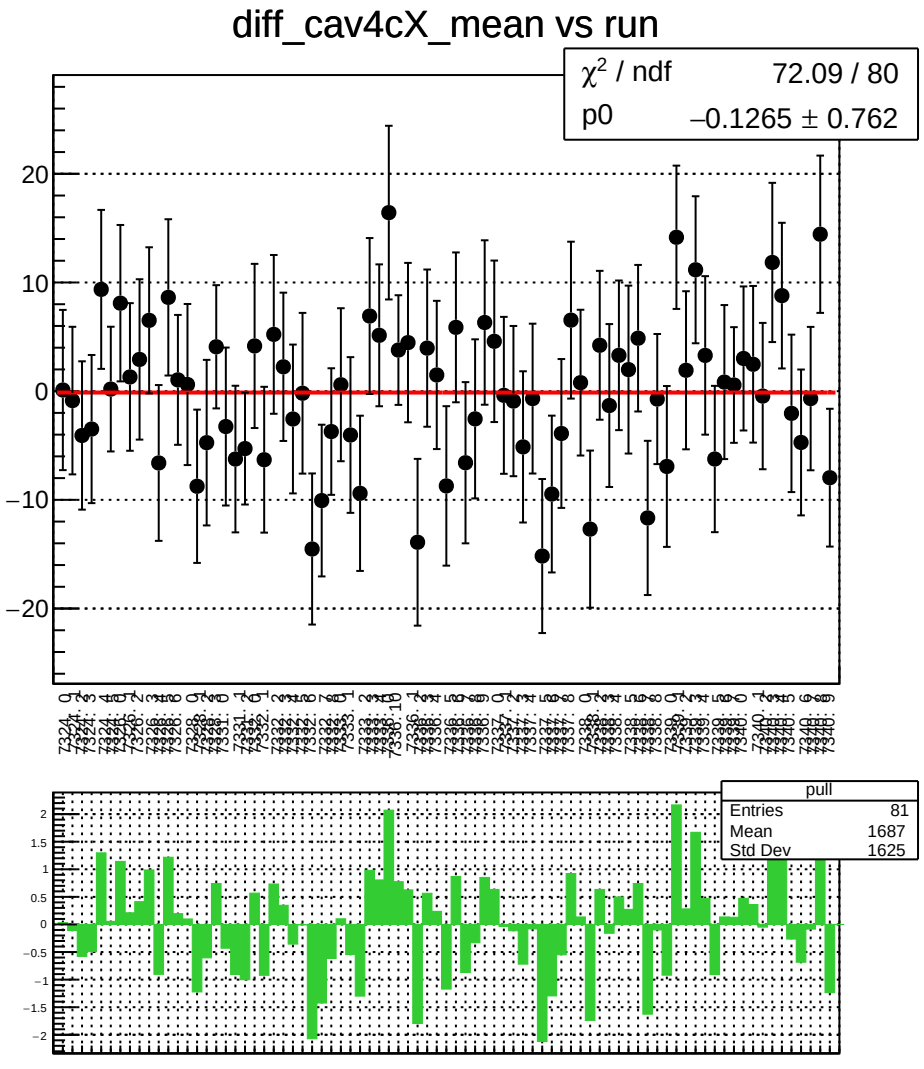

pull1D
Entries 81
Mean −0.001061
Std Dev 0.9492

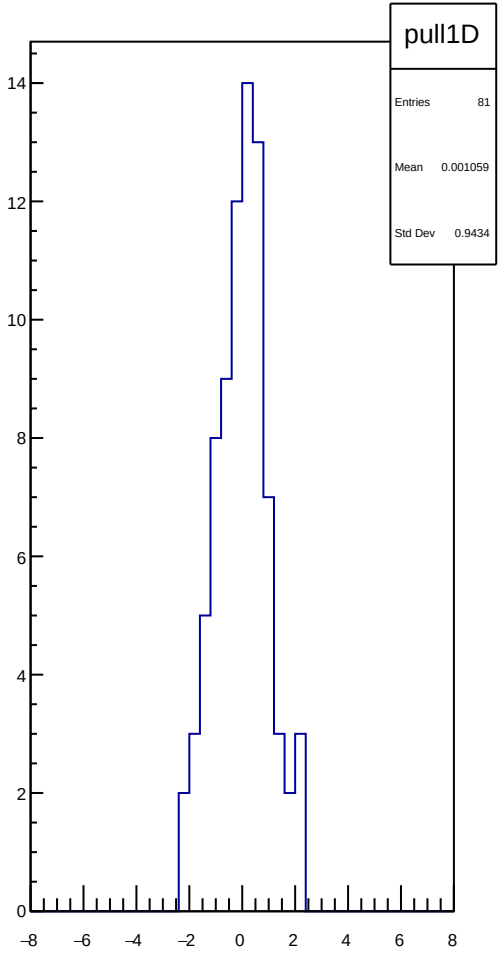

diff_cav4bX_rms vs run
χ² / ndf 4527 / 80
p0 1.2e+04 ± 9.621
14000
13500
13000
12500
12000
11500
11000
10500

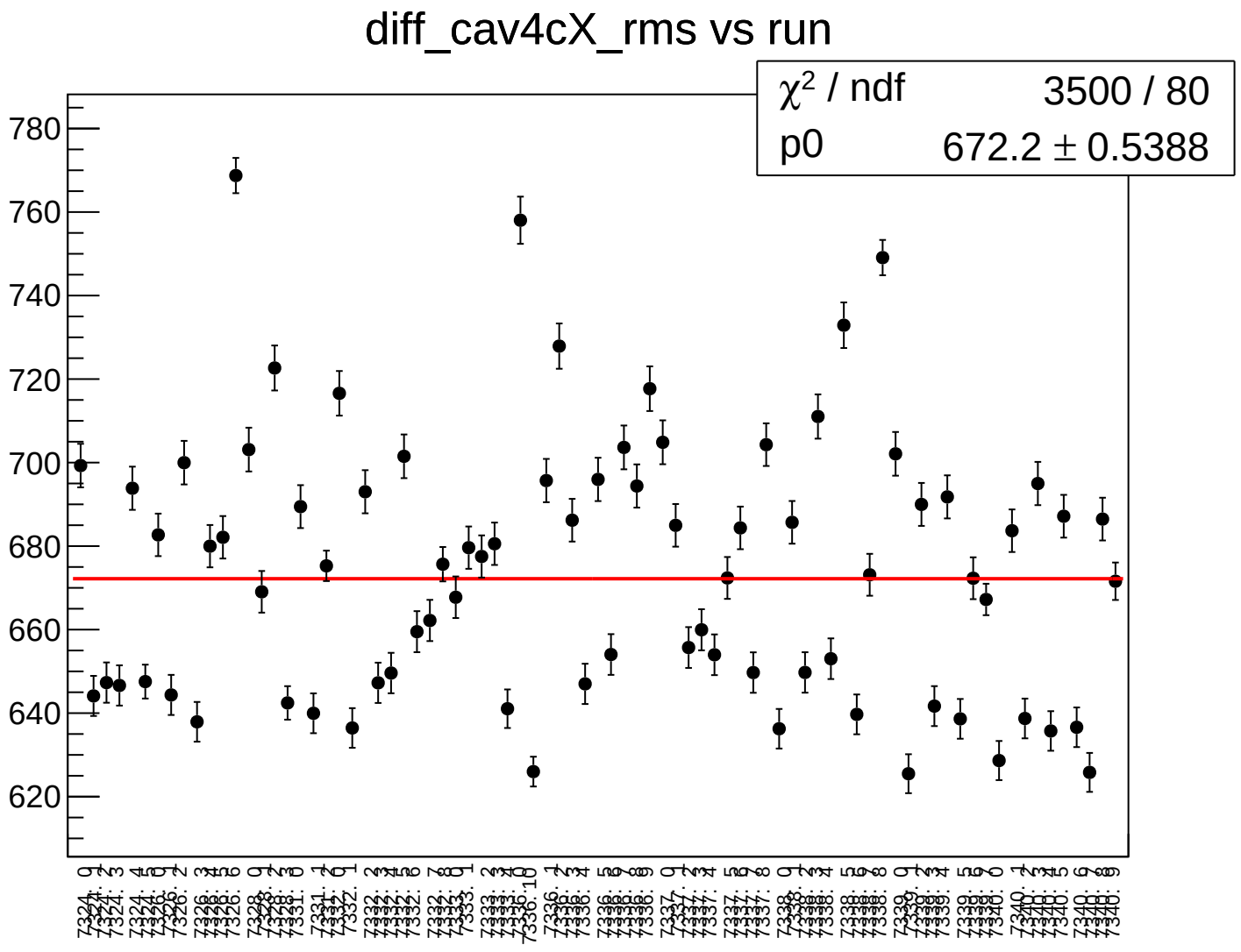

diff_cav4bY_mean vs run
χ² / ndf 90.55 / 80
p0 −2.592 ± 6.025
200
100
0
−100
−200
pull
Entries 81
Mean −332
Std Dev 358.9
3
2
1
0
−1
−2

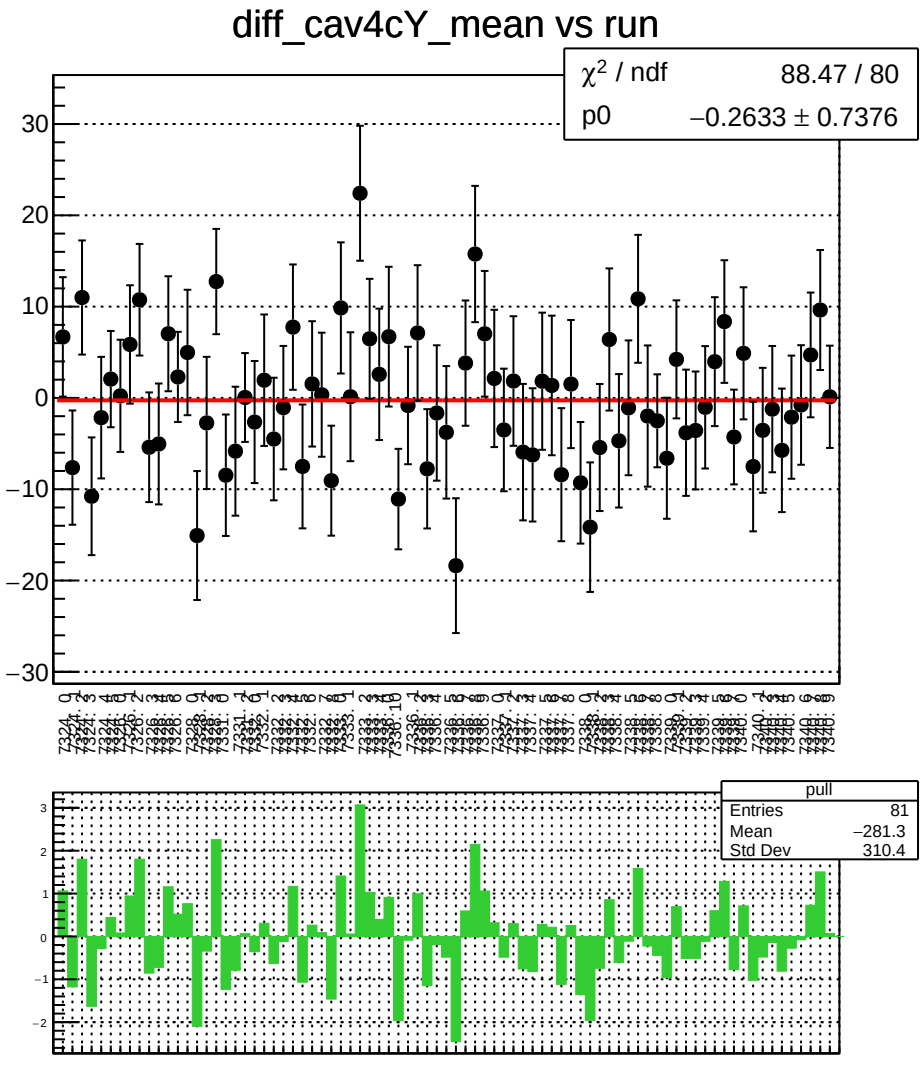

pull1D
Entries 81
Mean 0.00413
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

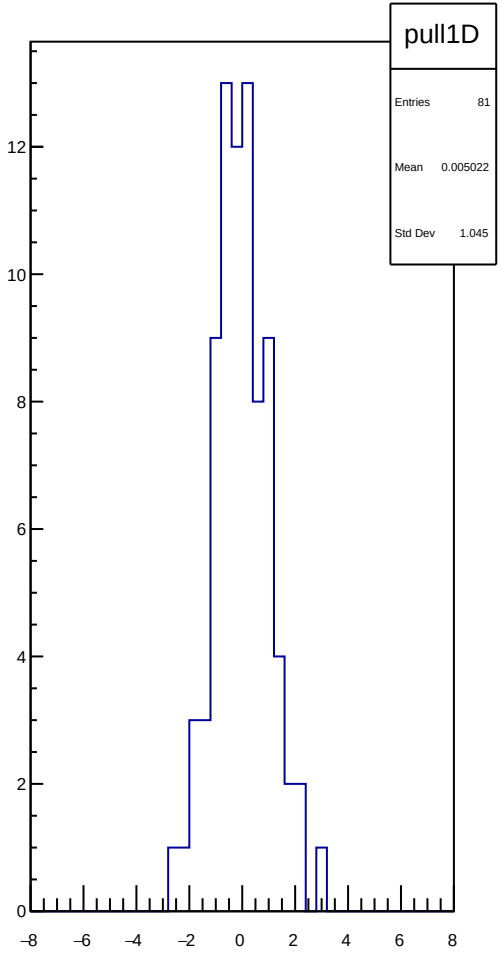

diff_cav4bY_rms vs run
χ² / ndf 3799 / 80
p0 5315 ± 4.26
6200
6000
5800
5600
5400
5200
5000
4800

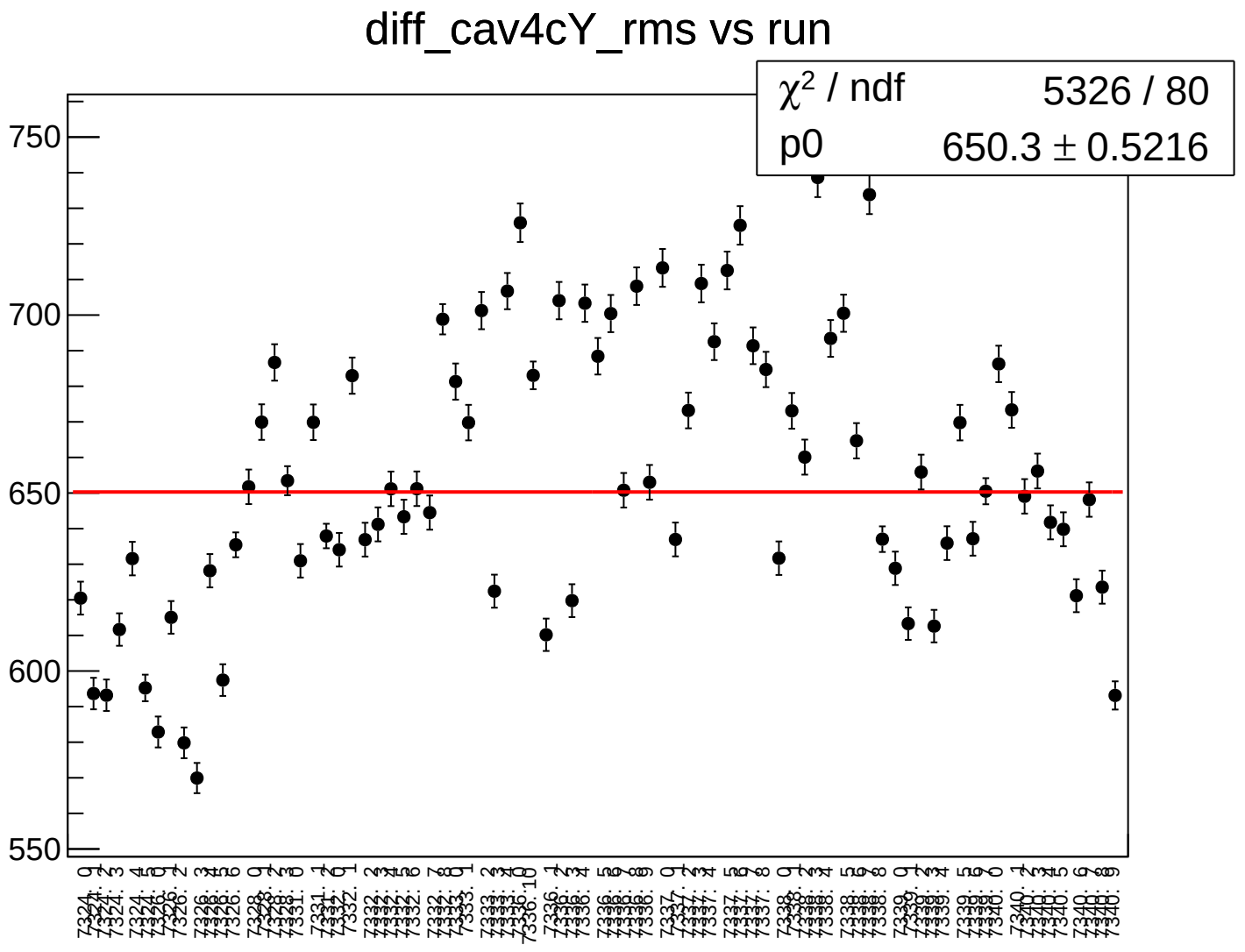

diff_cav4cX_mean vs run
χ² / ndf 72.09 / 80
p0 −0.1265 ± 0.762
pull
Entries 81
Mean 1687
Std Dev 1625

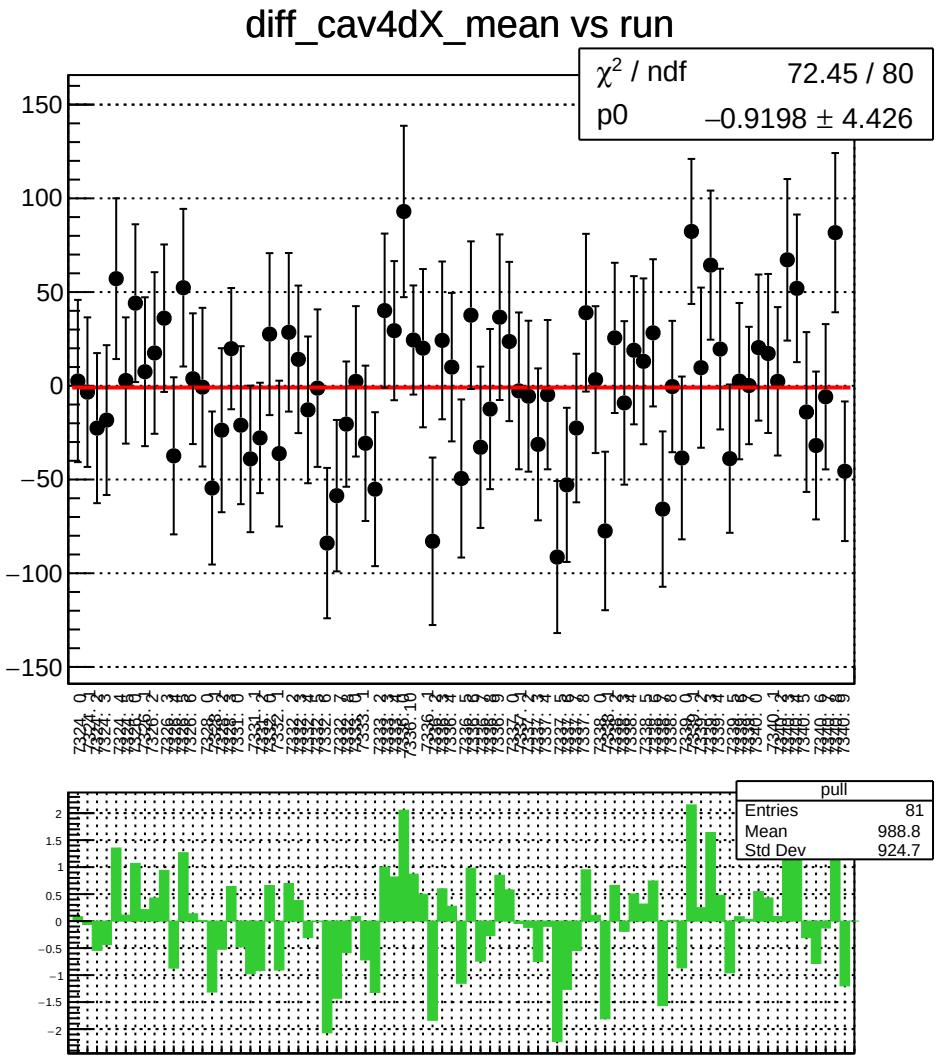

pull1D
Entries 81
Mean 0.001059
Std Dev 0.9434

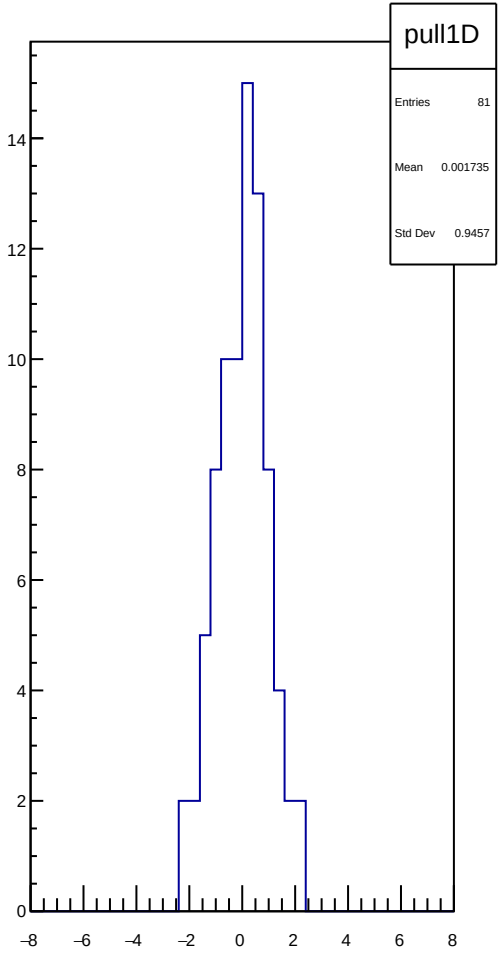

diff_cav4cX_rms vs run
χ² / ndf 3500 / 80
p0 672.2 ± 0.5388
780
760
740
720
700
680
660
640
620

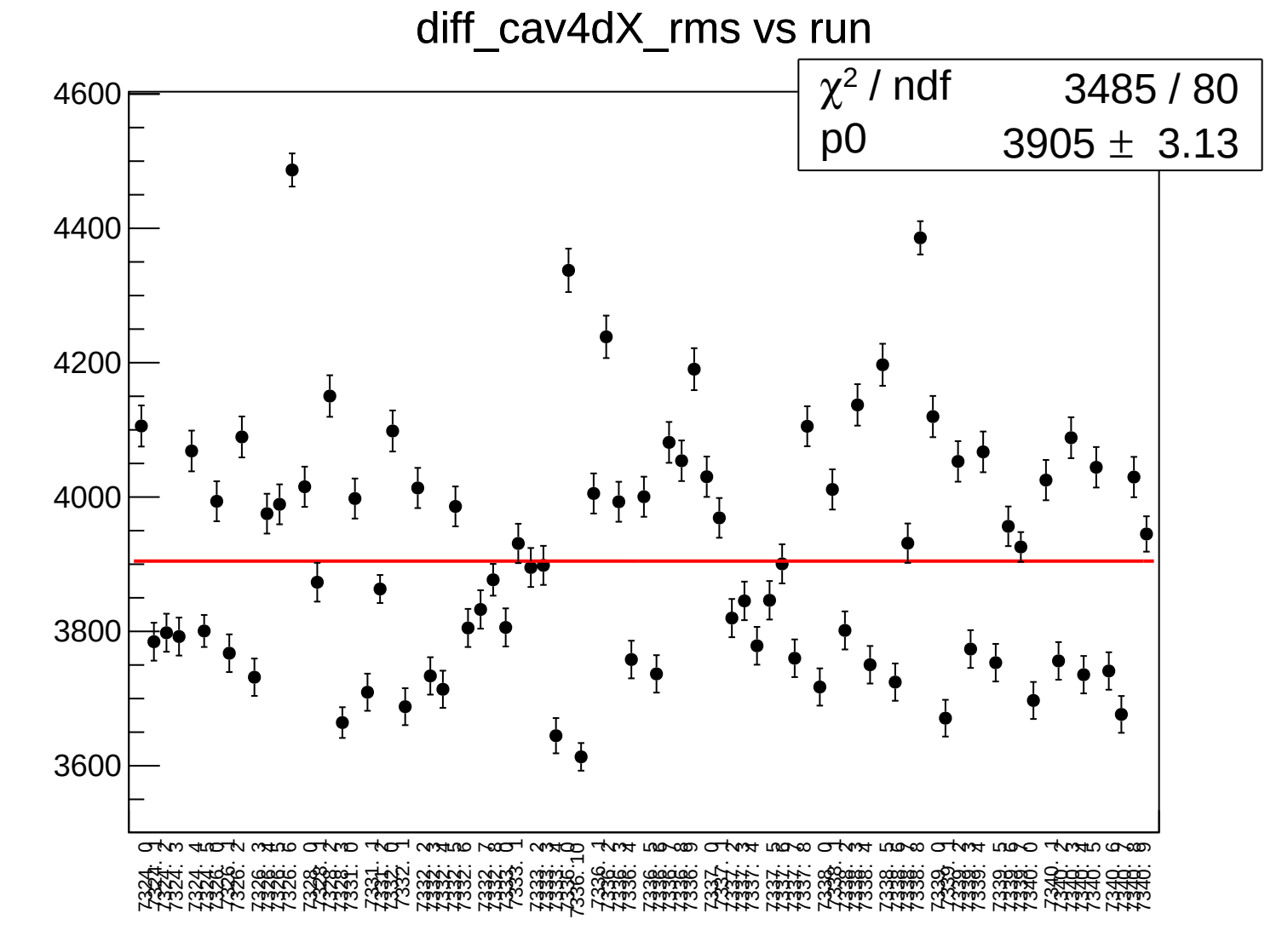

diff_cav4cY_mean vs run
χ² / ndf 88.47 / 80
p0 −0.2633 ± 0.7376
pull
Entries 81
Mean −281.3
Std Dev 310.4

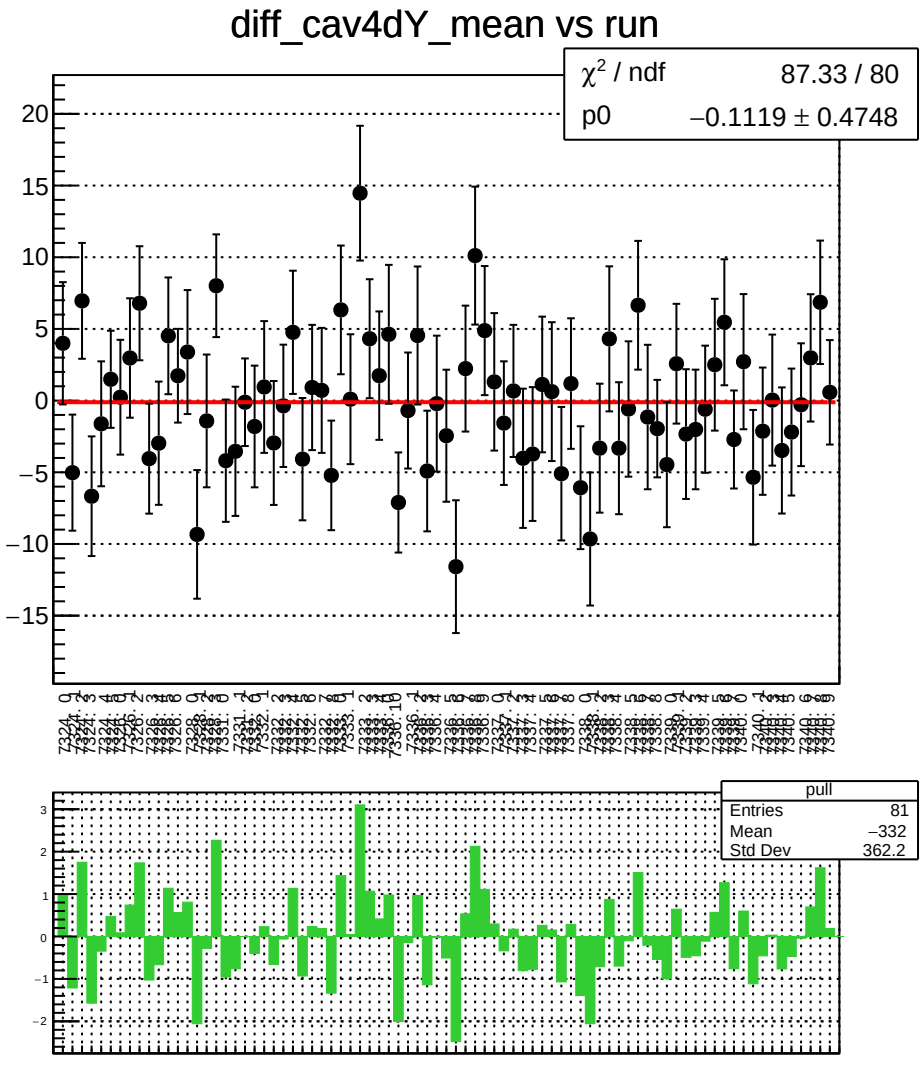

pull1D
Entries 81
Mean 0.005022
Std Dev 1.045

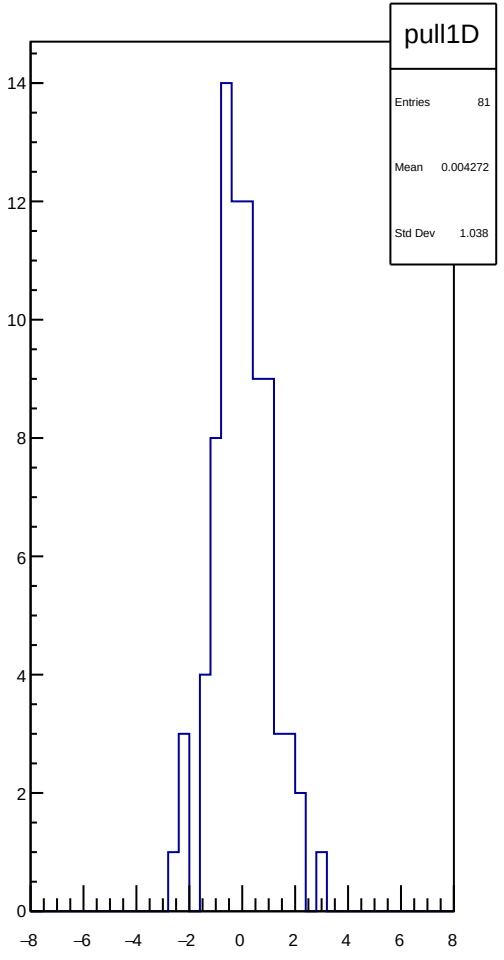

diff_cav4cY_rms vs run
χ² / ndf 5326 / 80
p0 650.3 ± 0.5216
750
700
650
600
550

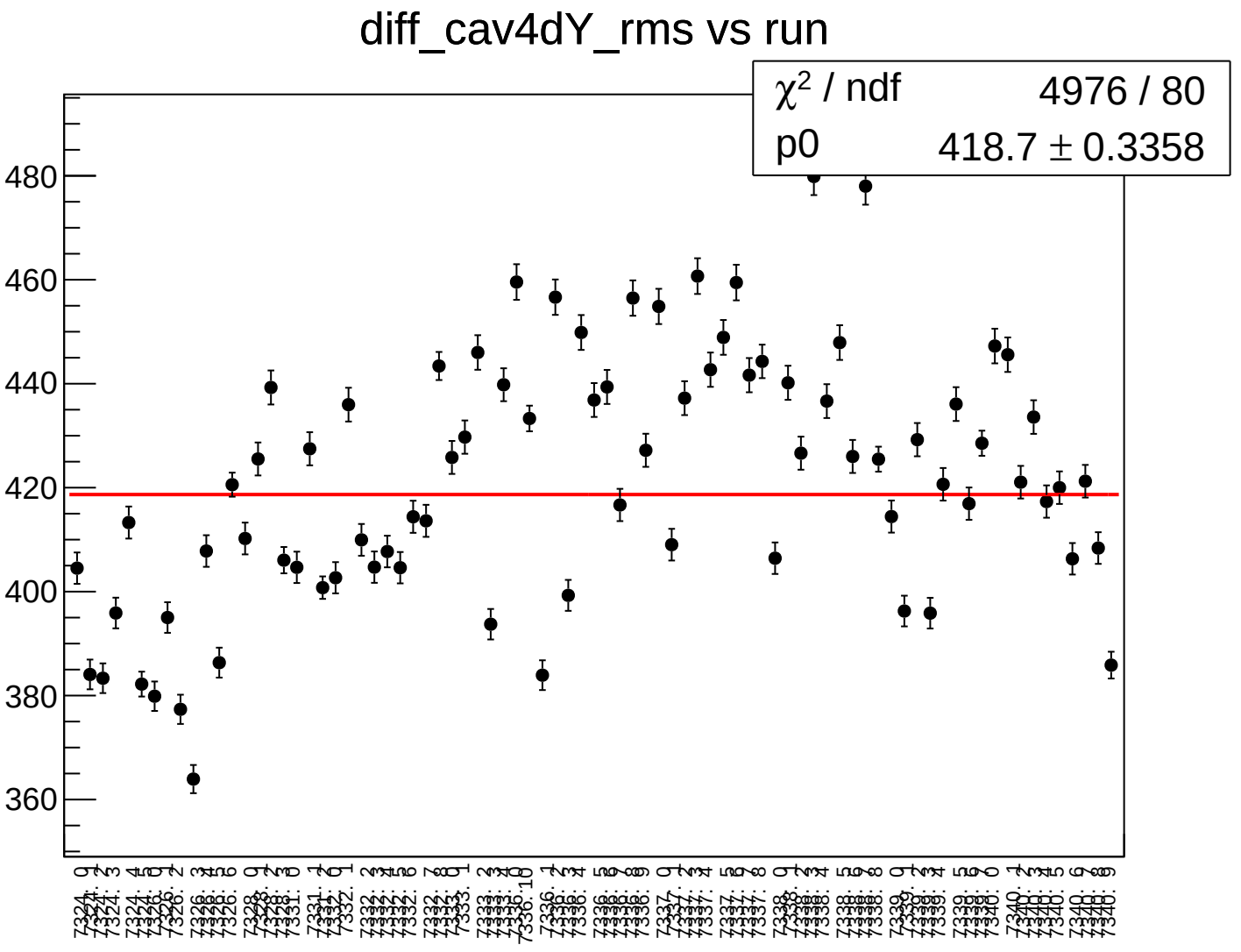

diff_cav4dX_mean vs run
χ² / ndf 72.45 / 80
p0 −0.9198 ± 4.426
pull
Entries 81
Mean 988.8
Std Dev 924.7

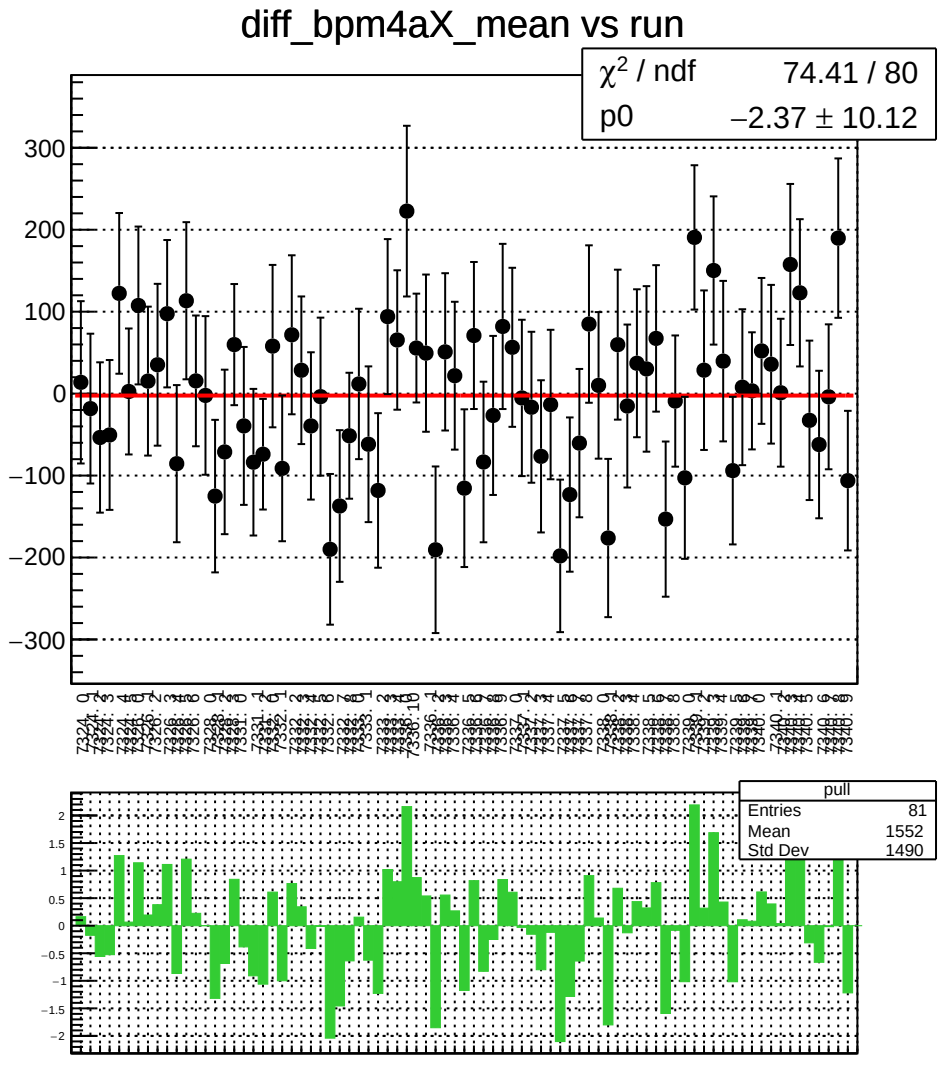

pull1D
Entries 81
Mean 0.001735
Std Dev 0.9457

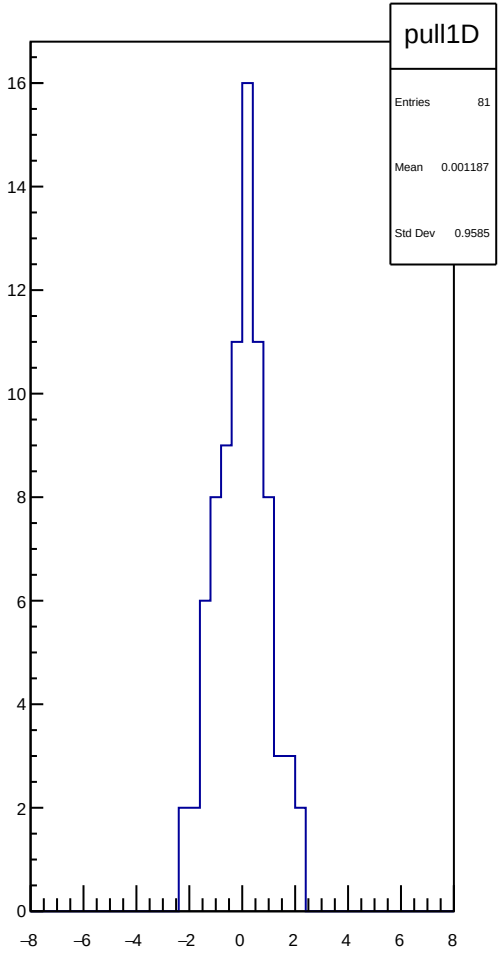

diff_cav4dX_rms vs run
χ² / ndf 3485 / 80
p0 3905 ± 3.13
4600
4400
4200
4000
3800
3600

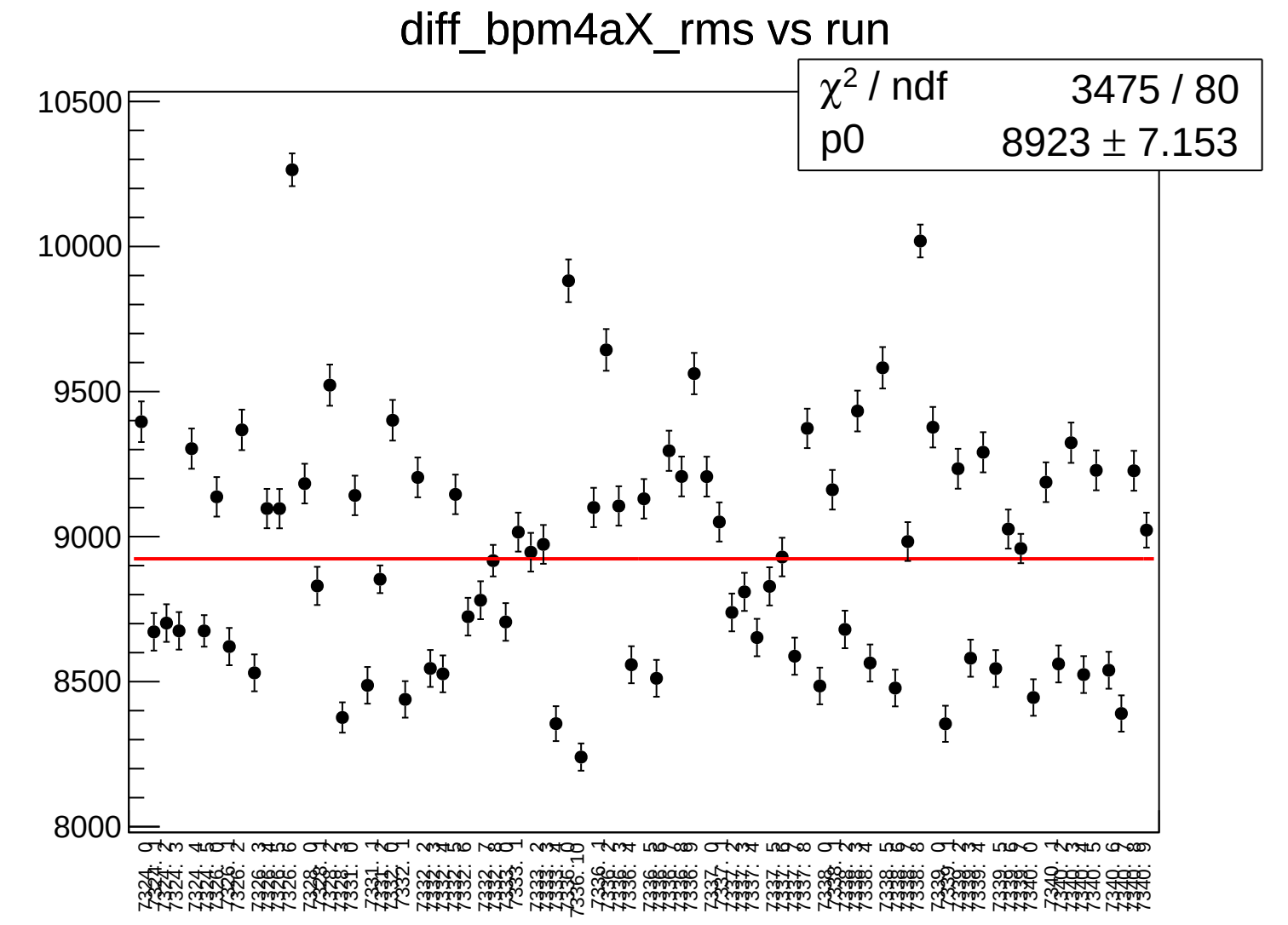

diff_cav4dY_mean vs run
χ² / ndf 87.33 / 80
p0 −0.1119 ± 0.4748
pull
Entries 81
Mean −332
Std Dev 362.2

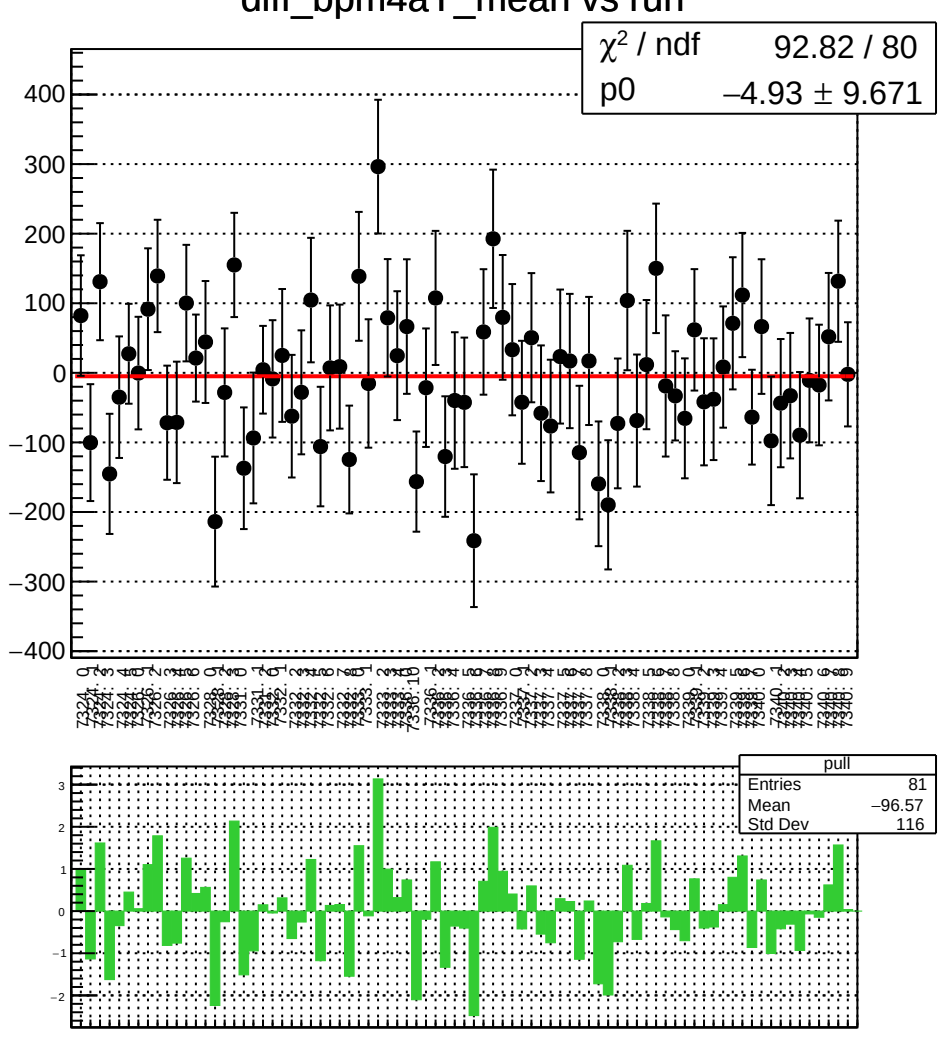

pull1D
Entries 81
Mean 0.004272
Std Dev 1.038

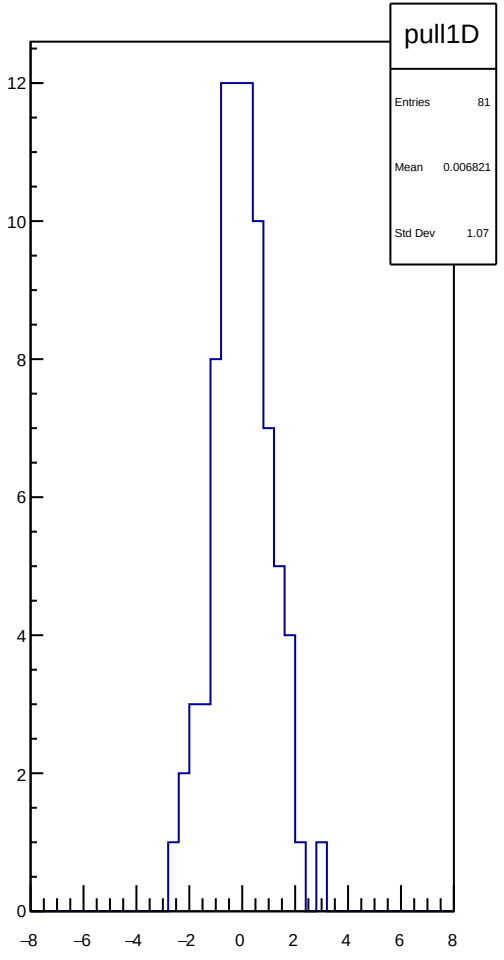

diff_cav4dY_rms vs run
χ² / ndf 4976 / 80
p0 418.7 ± 0.3358
480
460
440
420
400
380
360

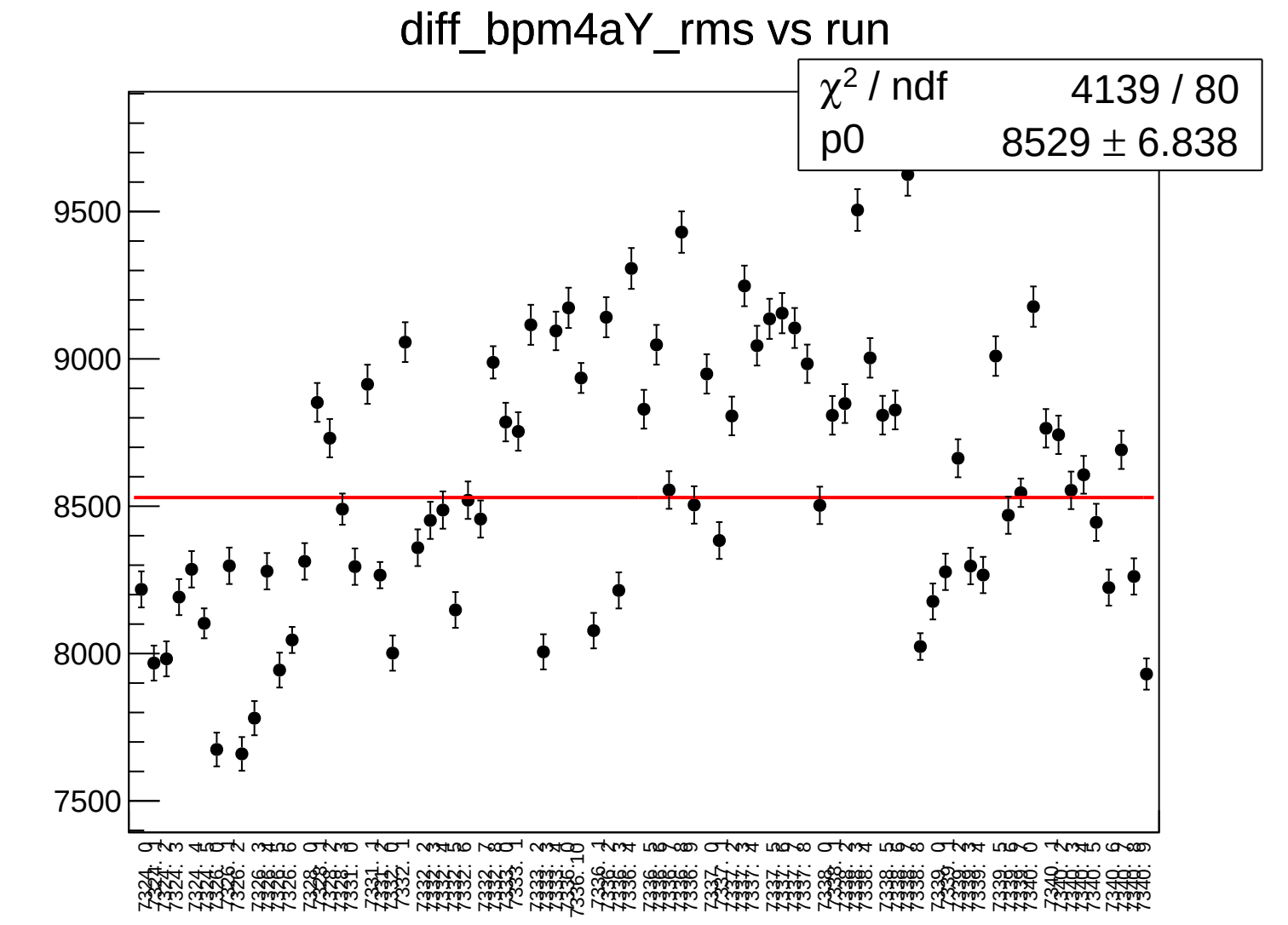

diff_bpm4aX_mean vs run
χ^2 / ndf 74.41 / 80
p0 −2.37 ± 10.12
pull
Entries 81
Mean 1552
Std Dev 1490

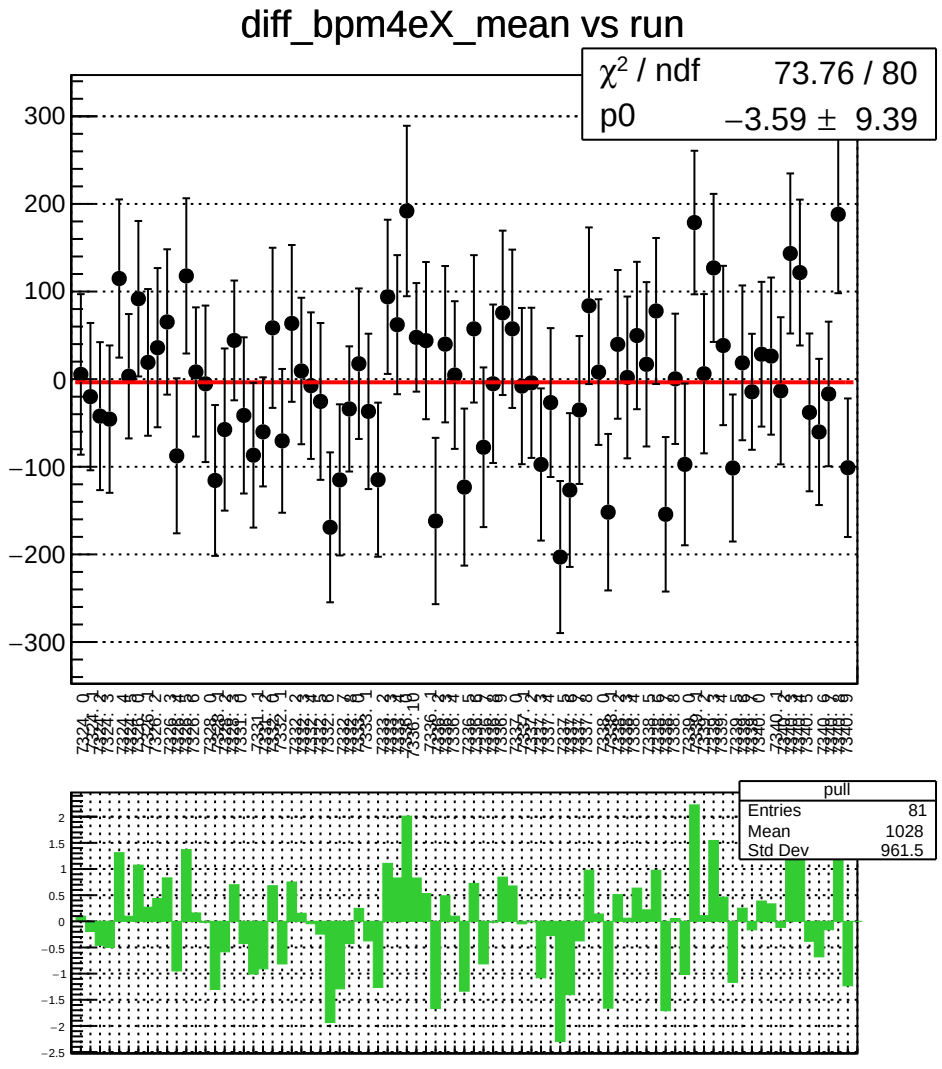

pull1D
Entries 81
Mean 0.001187
Std Dev 0.9585

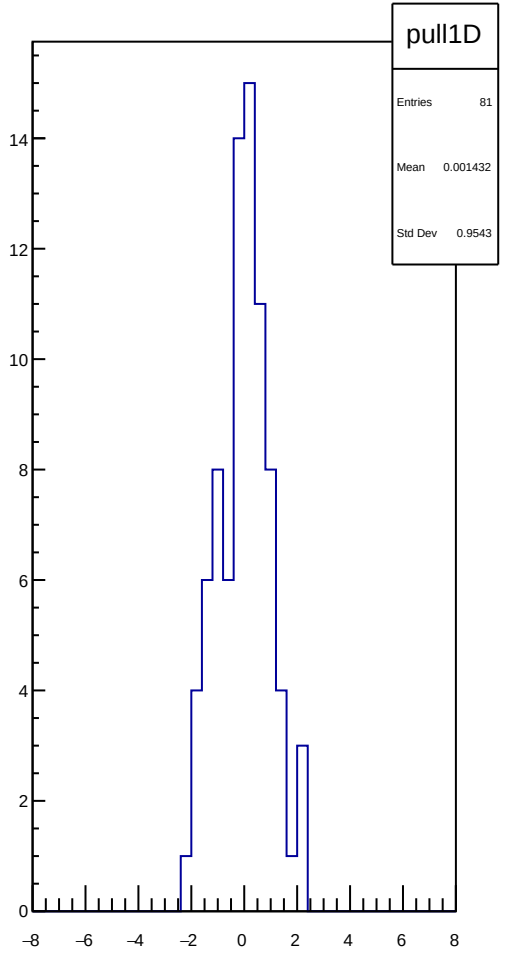

diff_bpm4aX_rms vs run
χ² / ndf 3475 / 80
p0 8923 ± 7.153
10500
10000
9500
9000
8500
8000

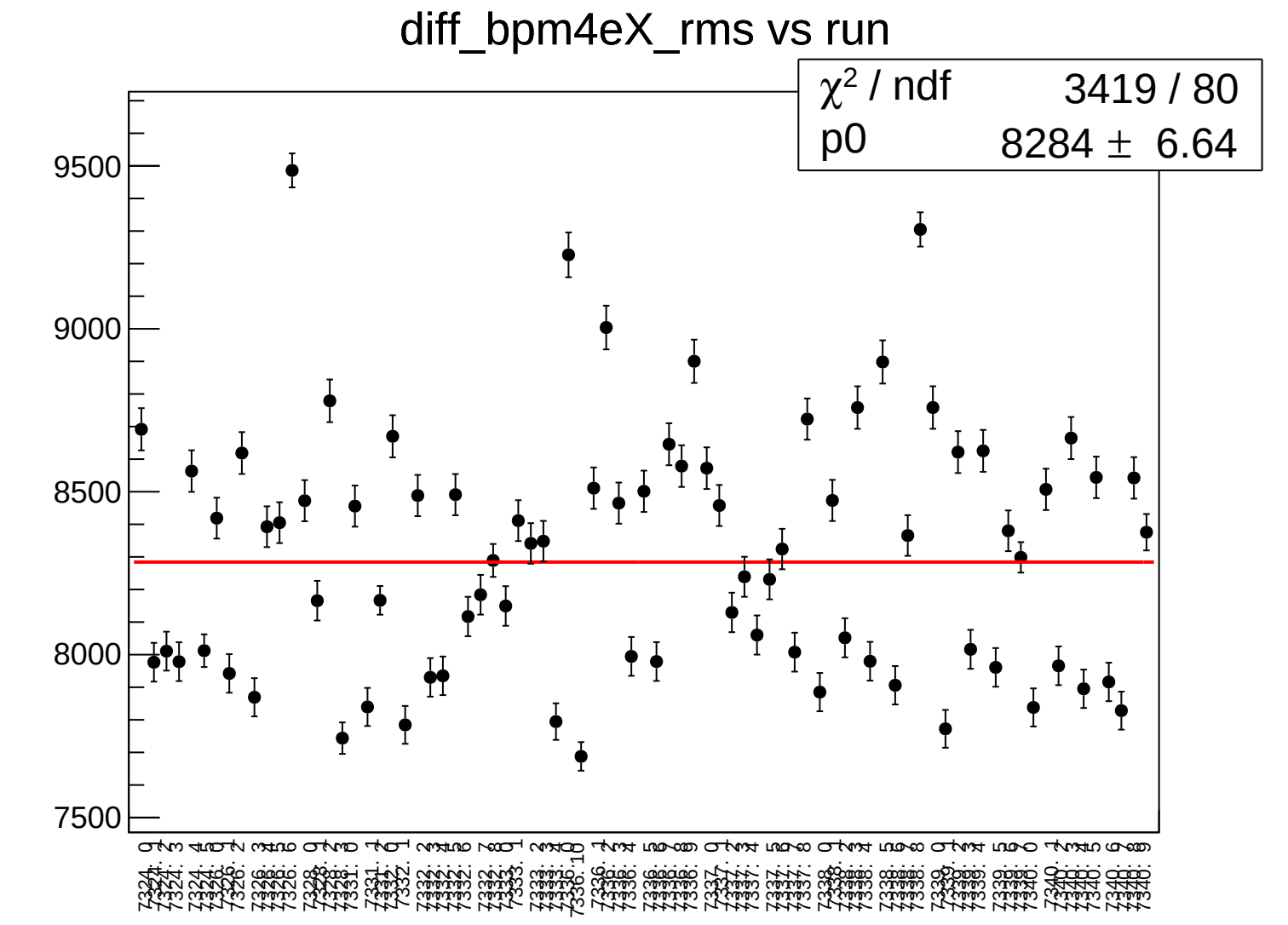

diff_bpm4aY_mean vs run
χ² / ndf 92.82 / 80
p0 –4.93 ± 9.671
pull
Entries 81
Mean –96.57
Std Dev 116

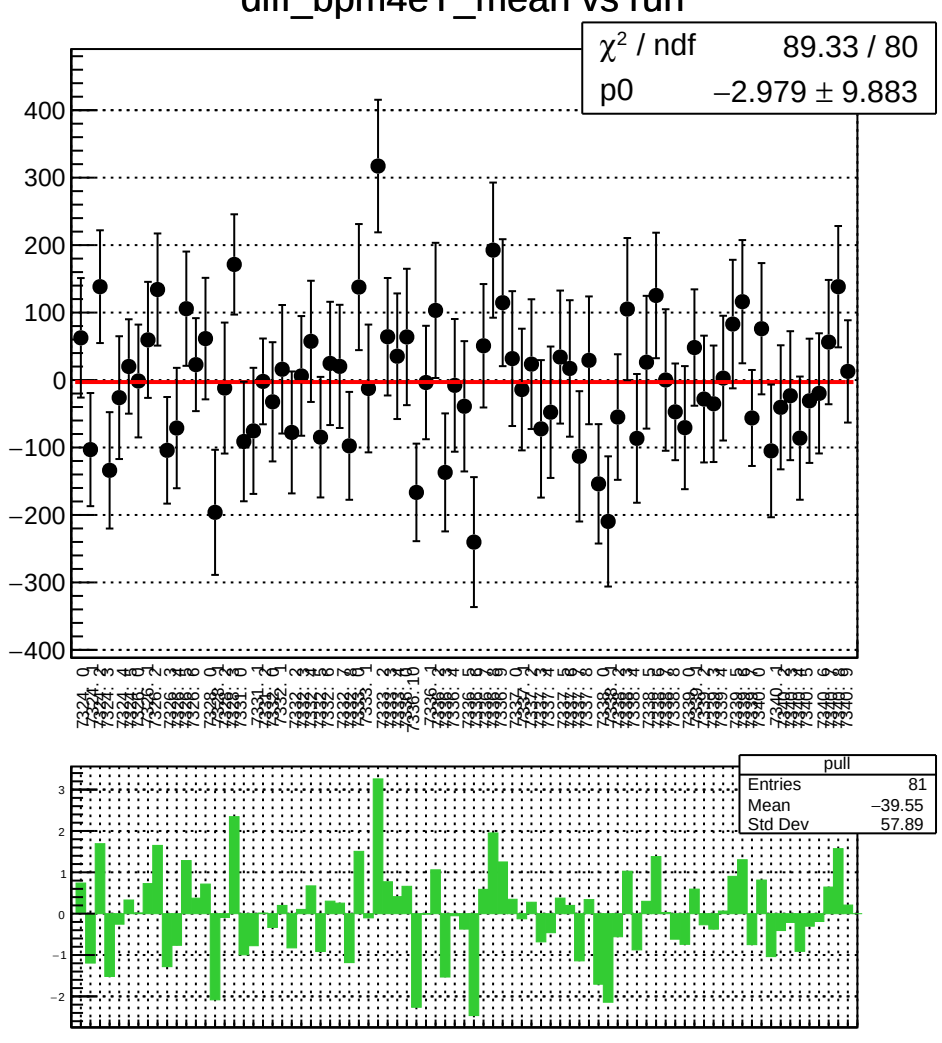

pull1D
Entries 81
Mean 0.006821
Std Dev 1.07

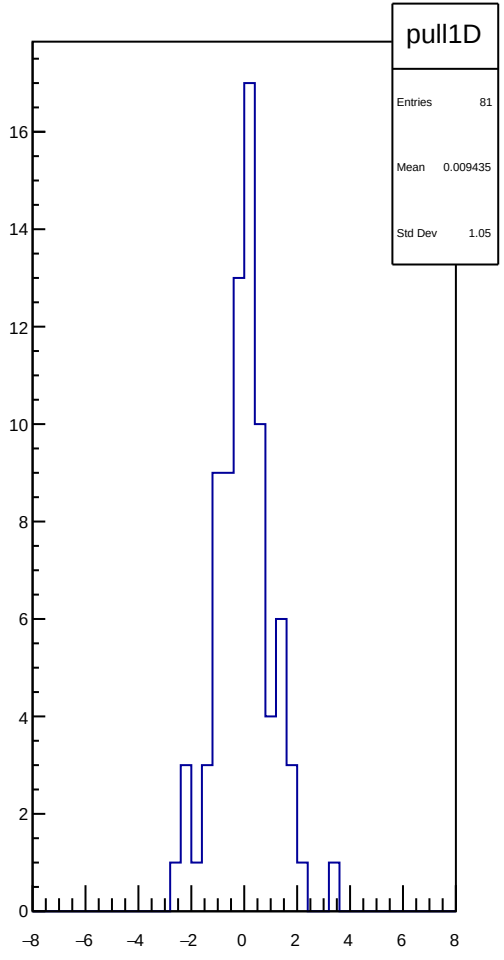

diff_bpm4aY_rms vs run
χ^2 / ndf 4139 / 80
p0 8529 ± 6.838
9500
9000
8500
8000
7500

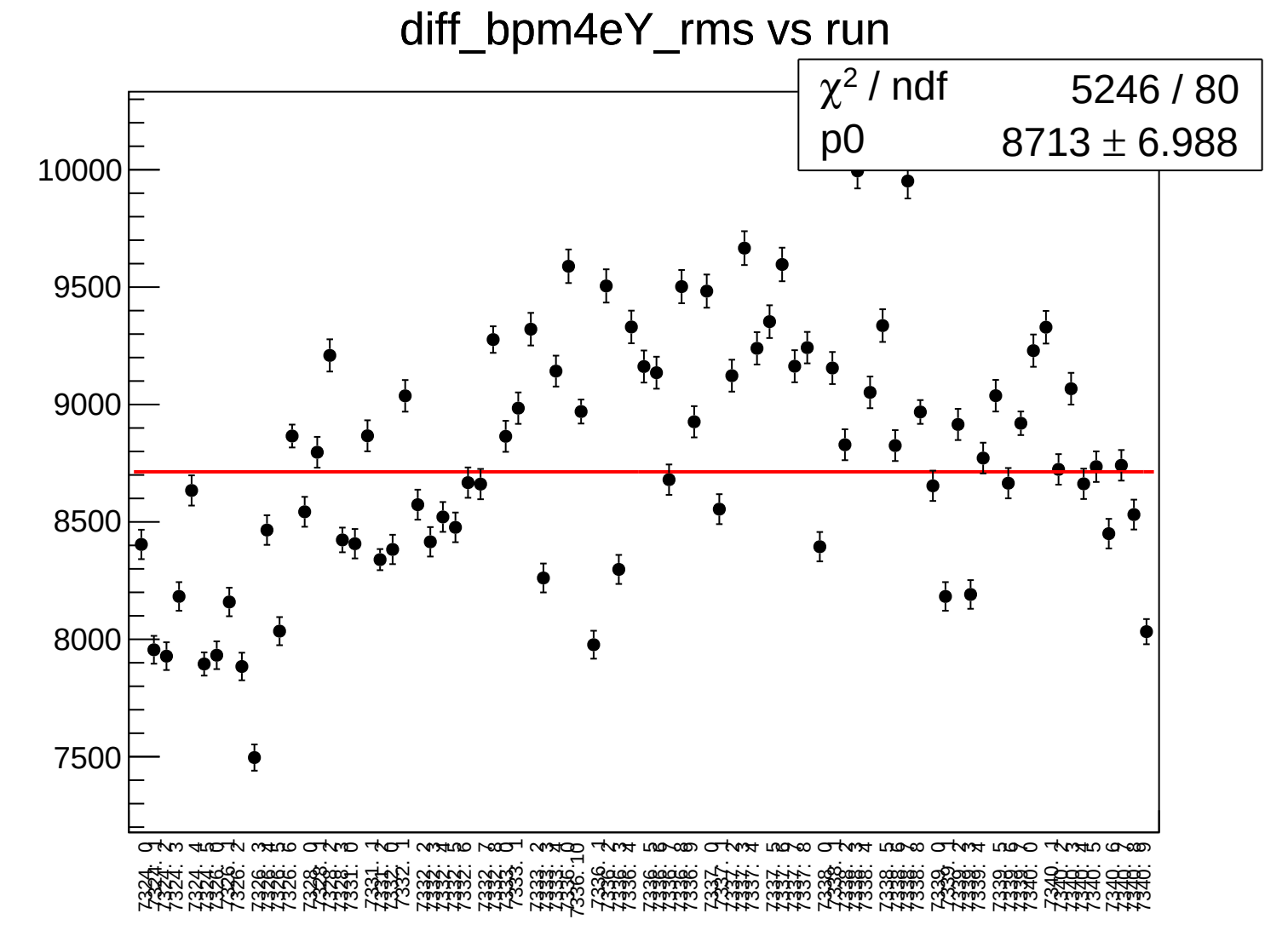

diff_bpm4eX_mean vs run
χ² / ndf 73.76 / 80
p0 −3.59 ± 9.39
pull
Entries 81
Mean 1028
Std Dev 961.5

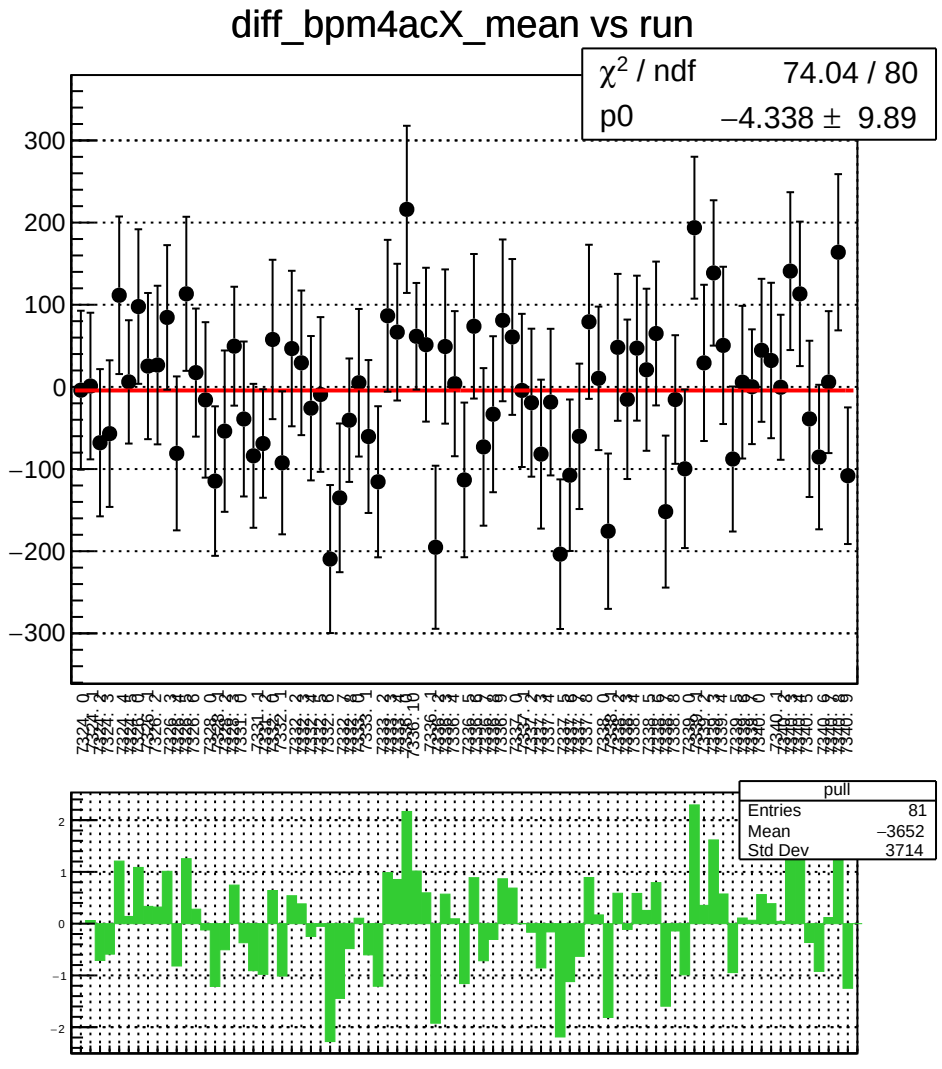

pull1D
Entries 81
Mean 0.001432
Std Dev 0.9543

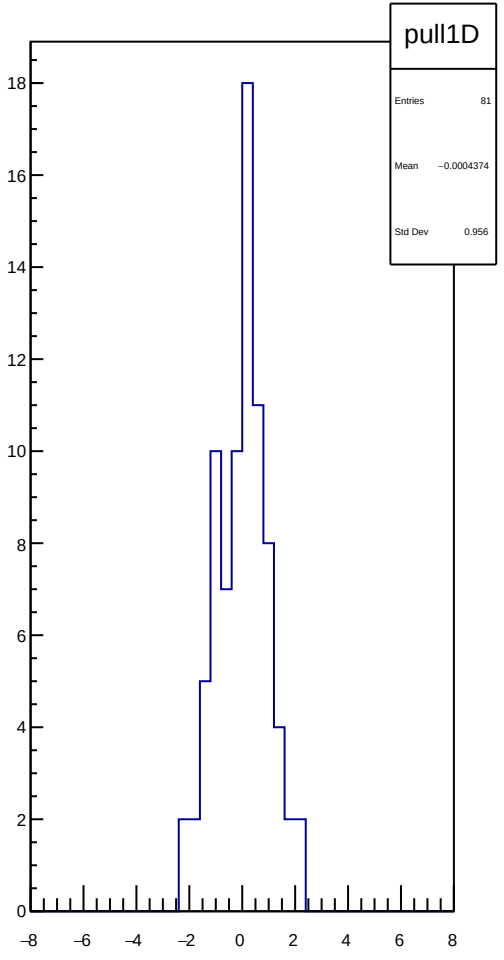

diff_bpm4eX_rms vs run
χ² / ndf 3419 / 80
p0 8284 ± 6.64
9500
9000
8500
8000
7500

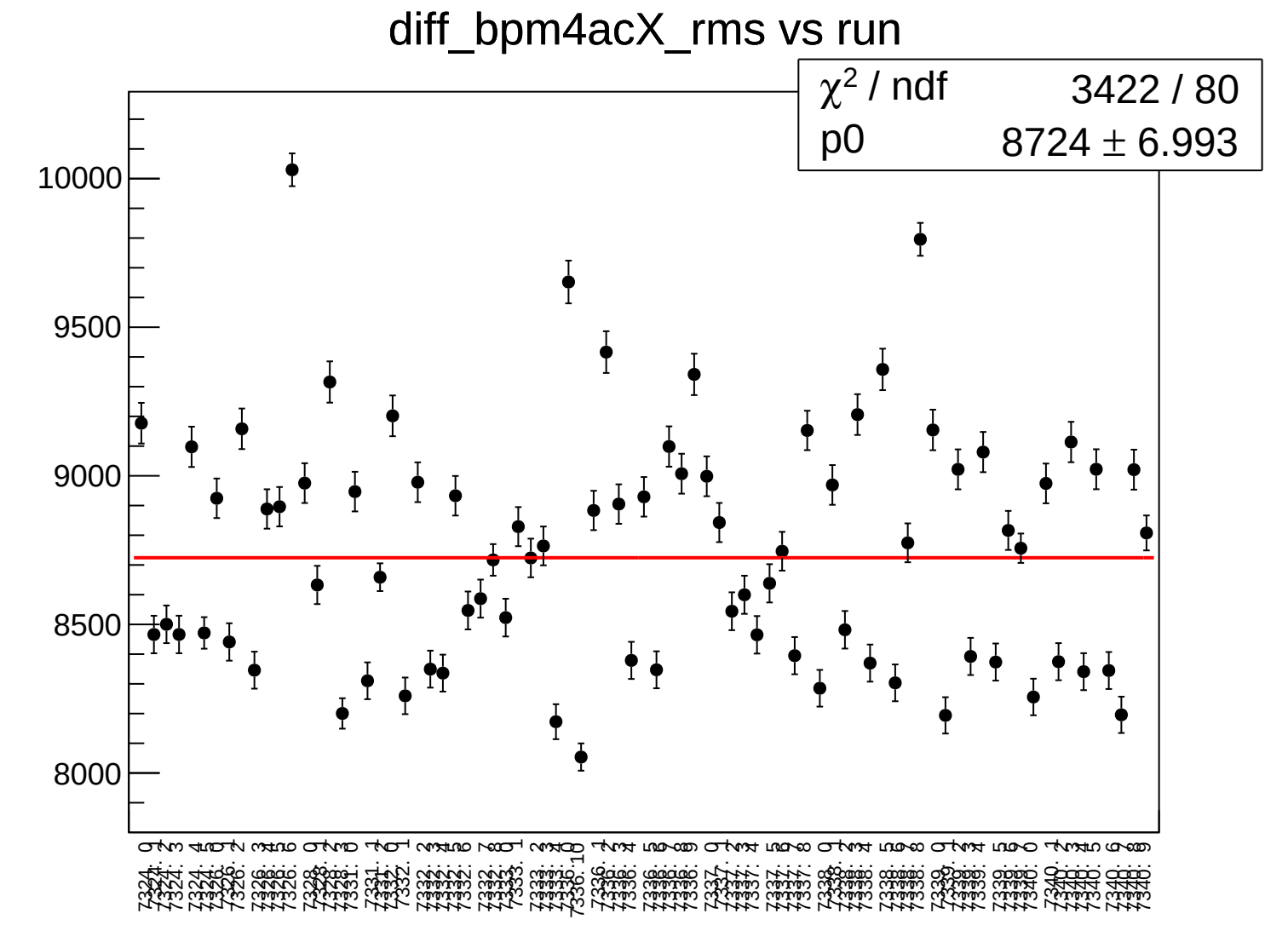

diff_bpm4eY_mean vs run
χ² / ndf 89.33 / 80
p0 −2.979 ± 9.883
pull
Entries 81
Mean −39.55
Std Dev 57.89

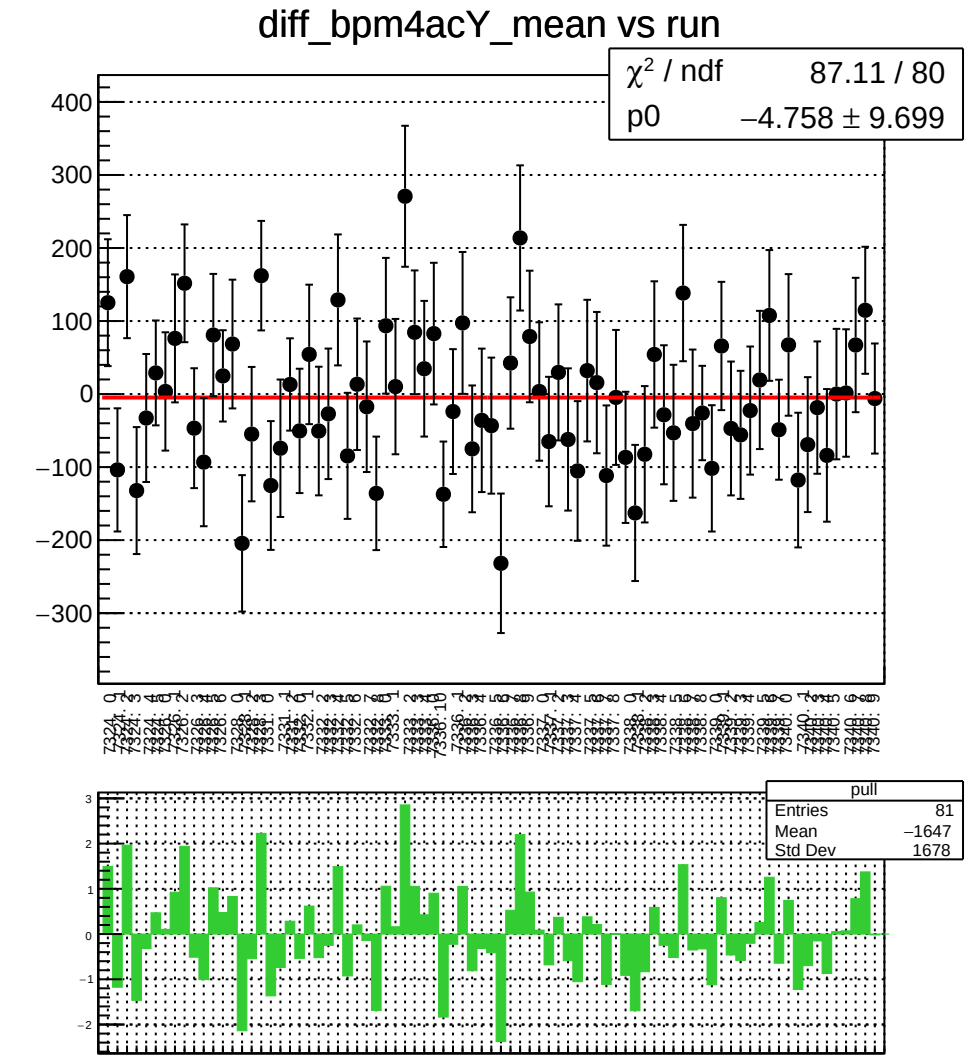

pull1D
Entries 81
Mean 0.009435
Std Dev 1.05

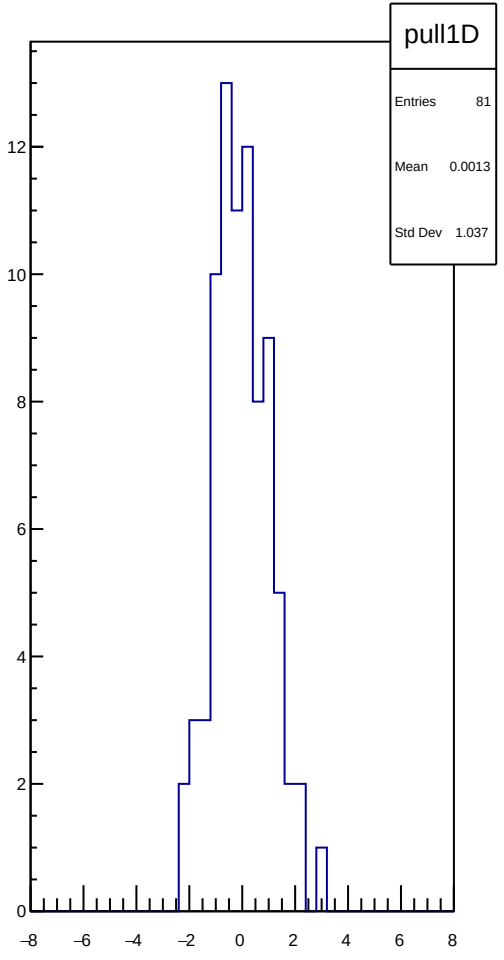

diff_bpm4eY_rms vs run
χ^2 / ndf 5246 / 80
p0 8713 ± 6.988
10000
9500
9000
8500
8000
7500

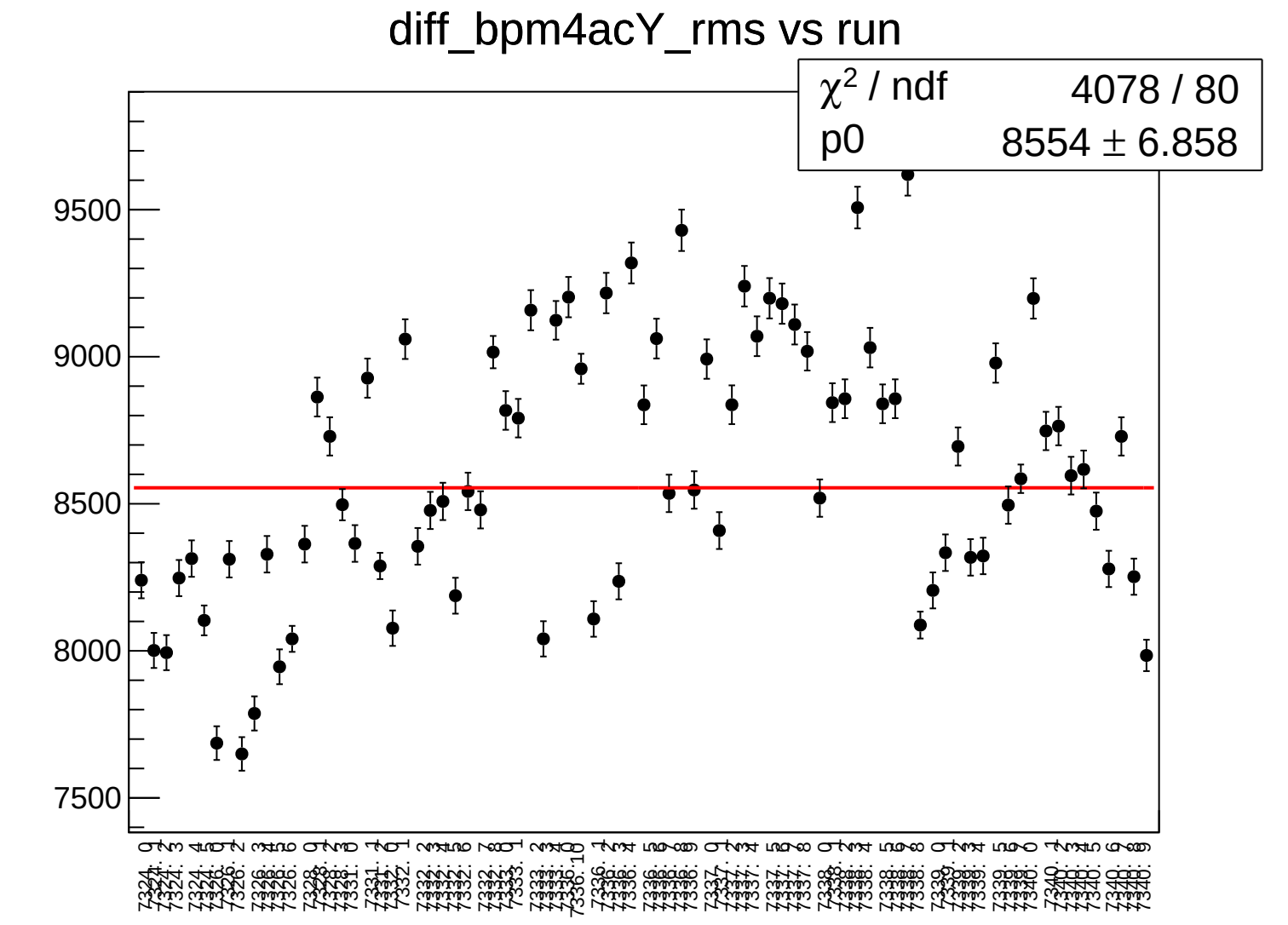

diff_bpm4acX_mean vs run
χ² / ndf 74.04 / 80
p0 −4.338 ± 9.89
pull
Entries 81
Mean −3652
Std Dev 3714

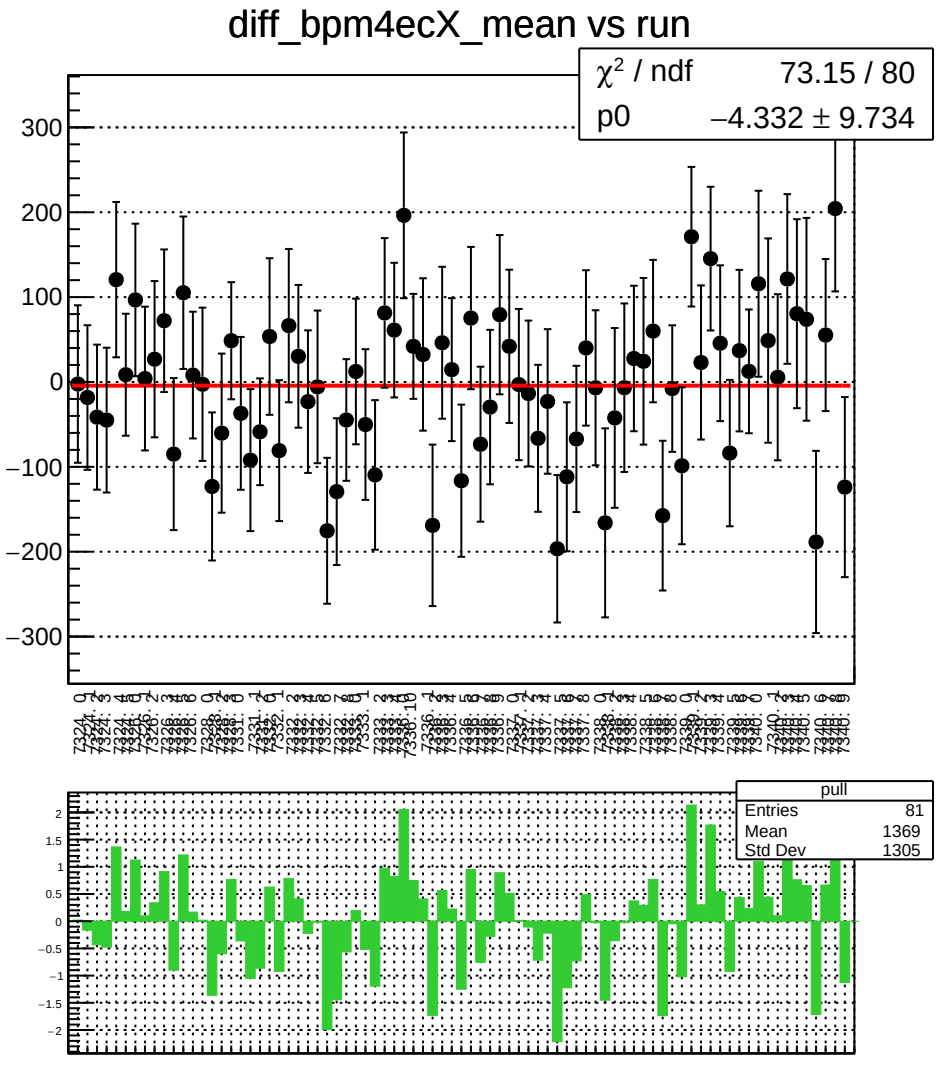

pull1D
Entries 81
Mean −0.0004374
Std Dev 0.956

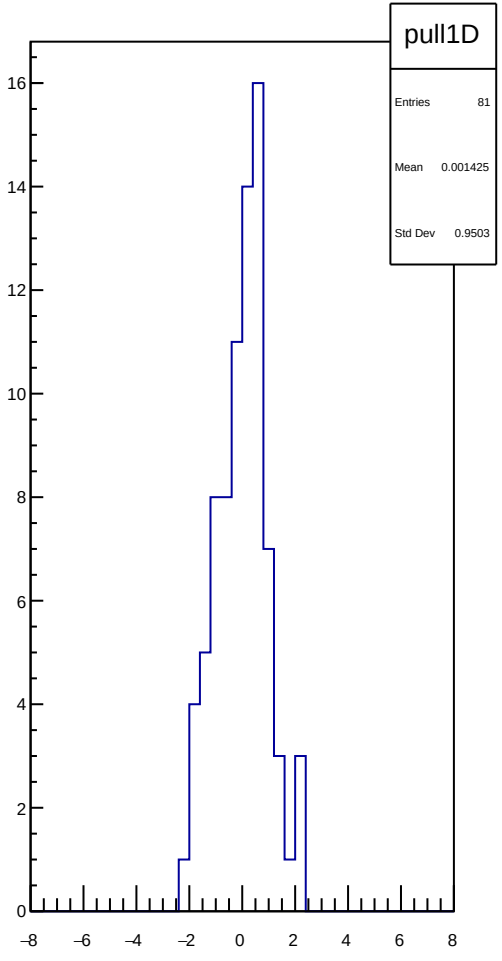

diff_bpm4acX_rms vs run
χ² / ndf 3422 / 80
p0 8724 ± 6.993
10000
9500
9000
8500
8000

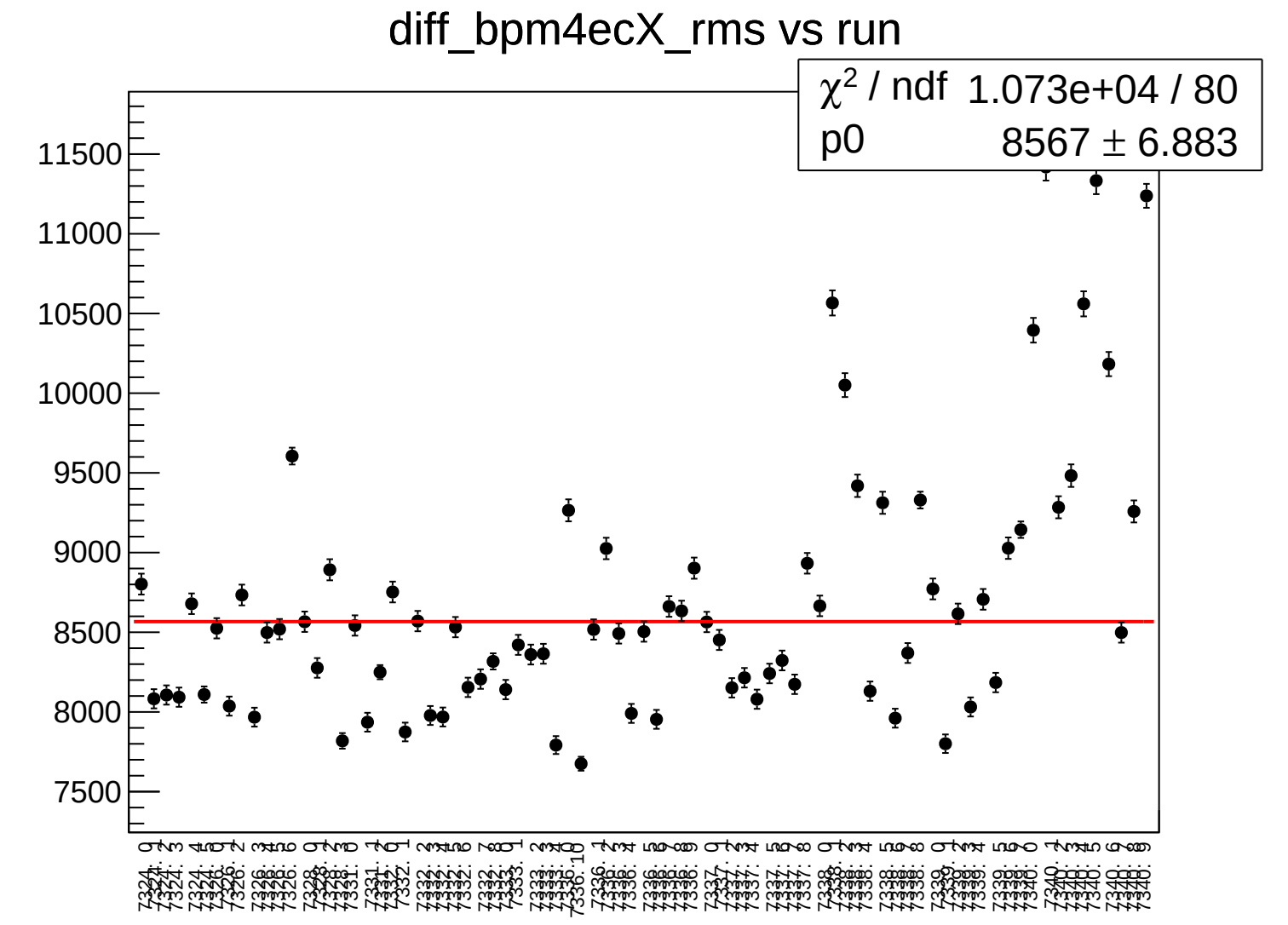

diff_bpm4acY_mean vs run
χ² / ndf 87.11 / 80
p0 −4.758 ± 9.699
pull
Entries 81
Mean −1647
Std Dev 1678

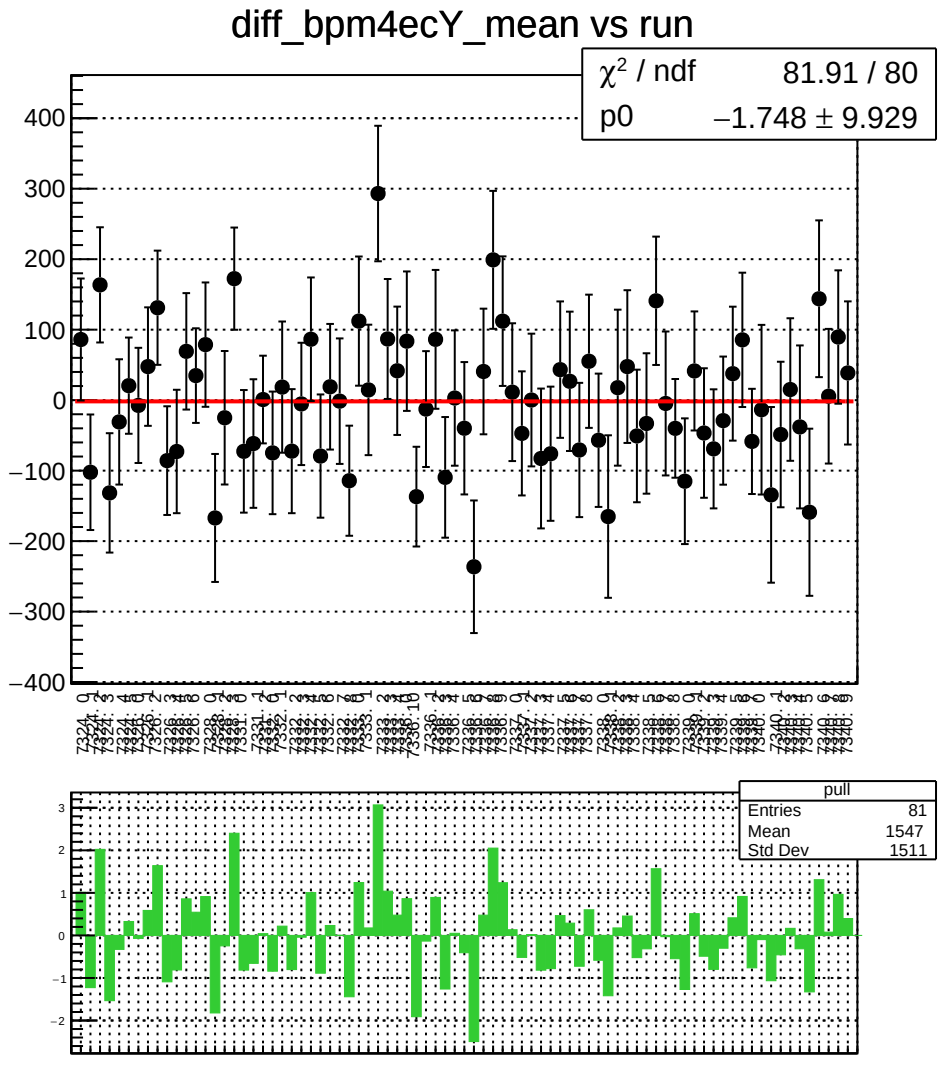

pull1D
Entries 81
Mean 0.0013
Std Dev 1.037

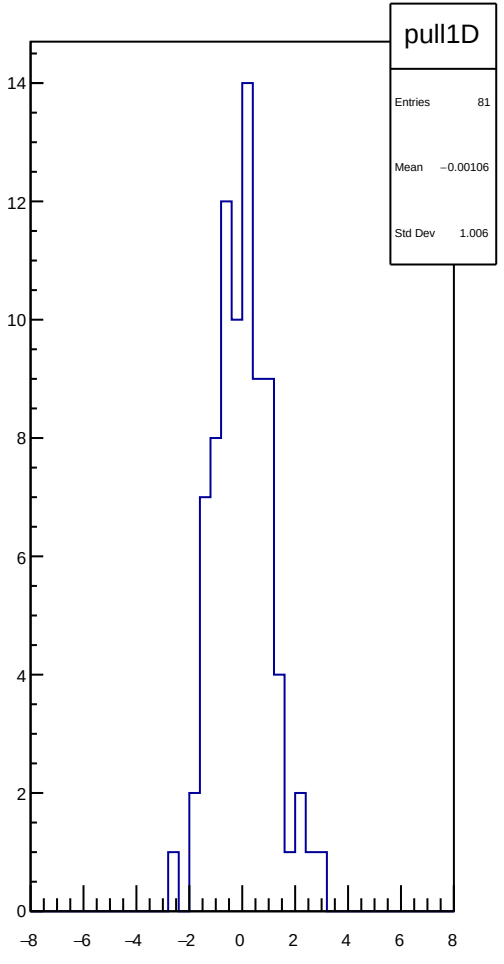

diff_bpm4acY_rms vs run
χ^2 / ndf 4078 / 80
p0 8554 ± 6.858
9500
9000
8500
8000
7500

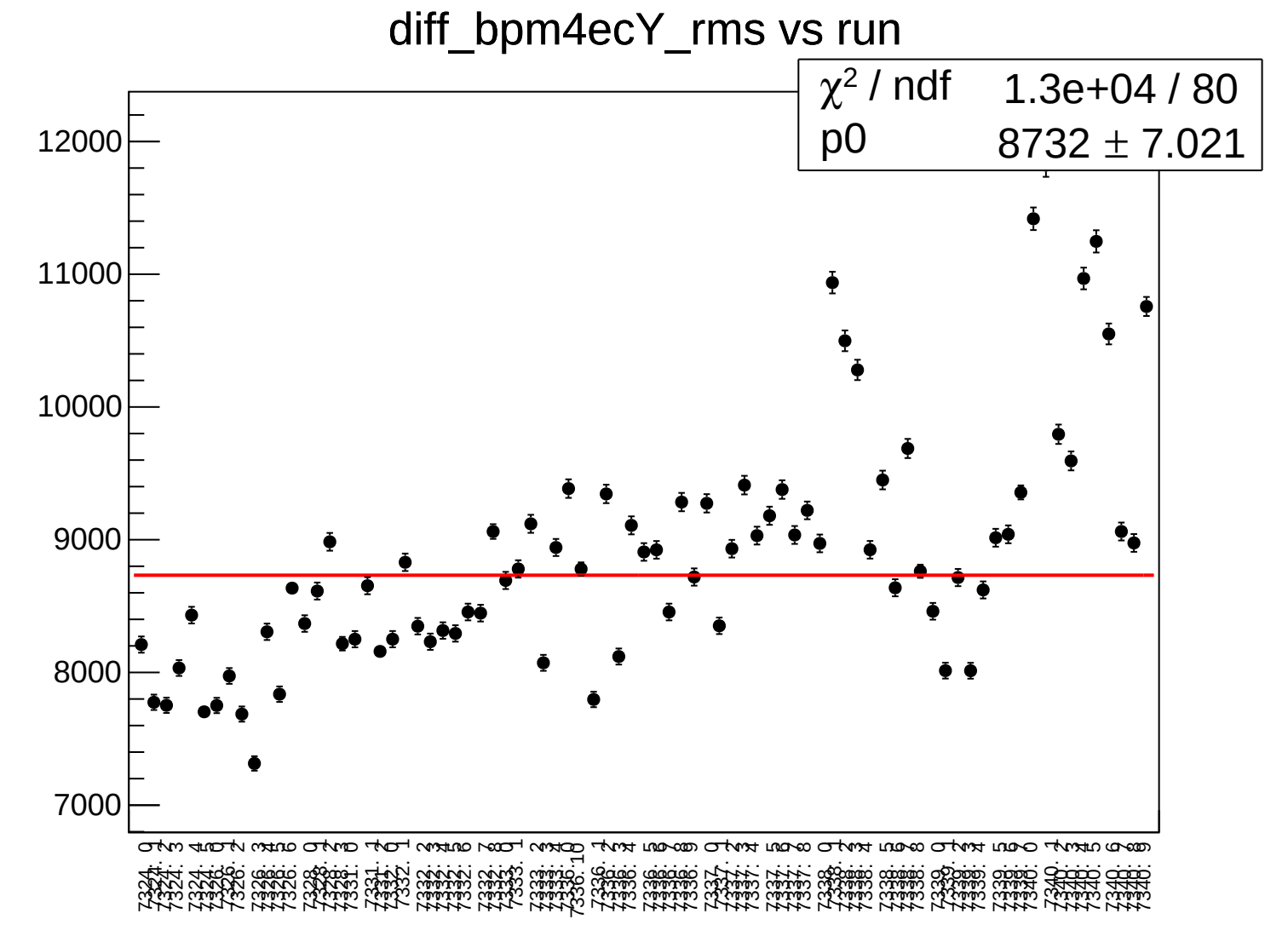

diff_bpm4ecX_mean vs run
χ² / ndf 73.15 / 80
p0 −4.332 ± 9.734
pull
Entries 81
Mean 1369
Std Dev 1305

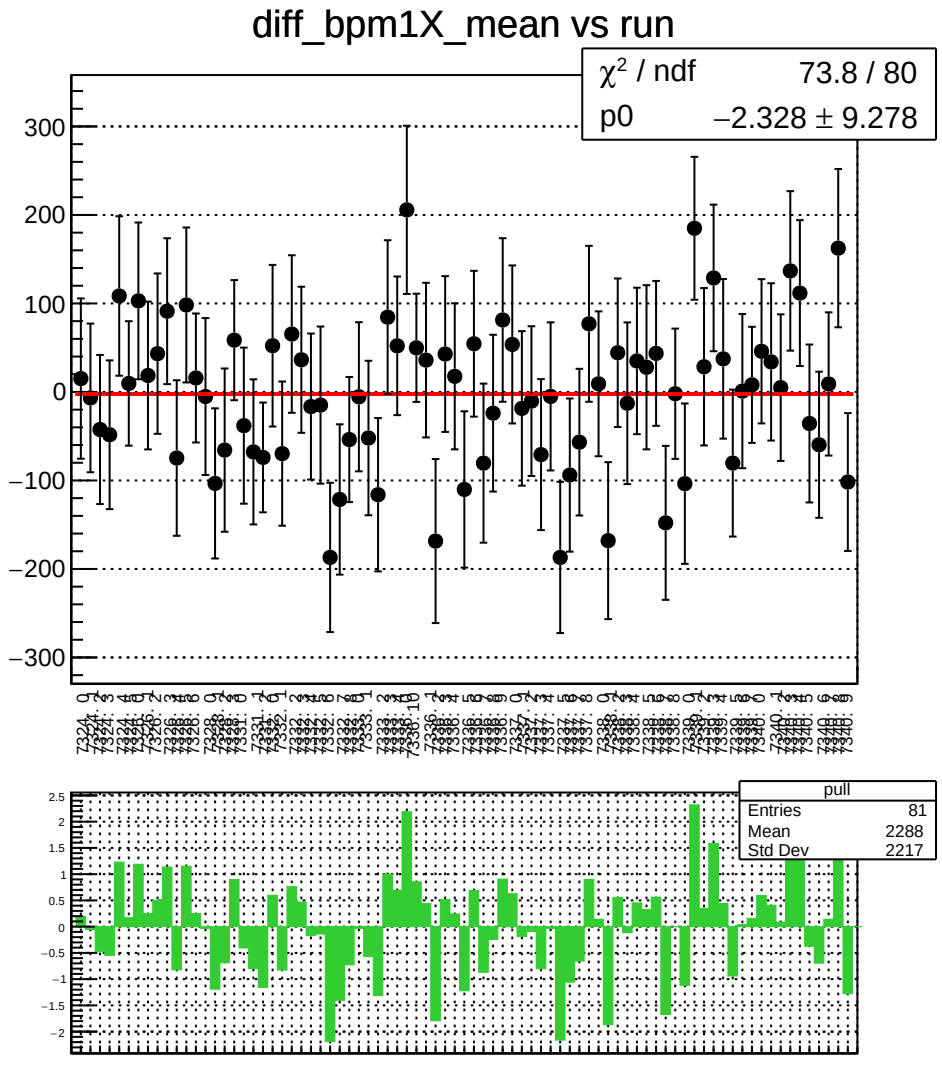

pull1D
Entries 81
Mean 0.001425
Std Dev 0.9503

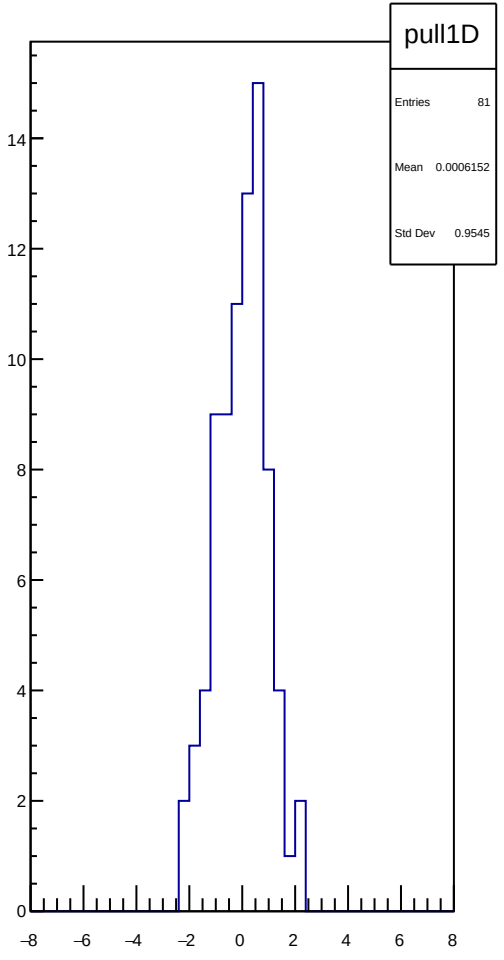

diff_bpm4ecX_rms vs run
χ² / ndf 1.073e+04 / 80
p0 8567 ± 6.883
11500
11000
10500
10000
9500
9000
8500
8000
7500

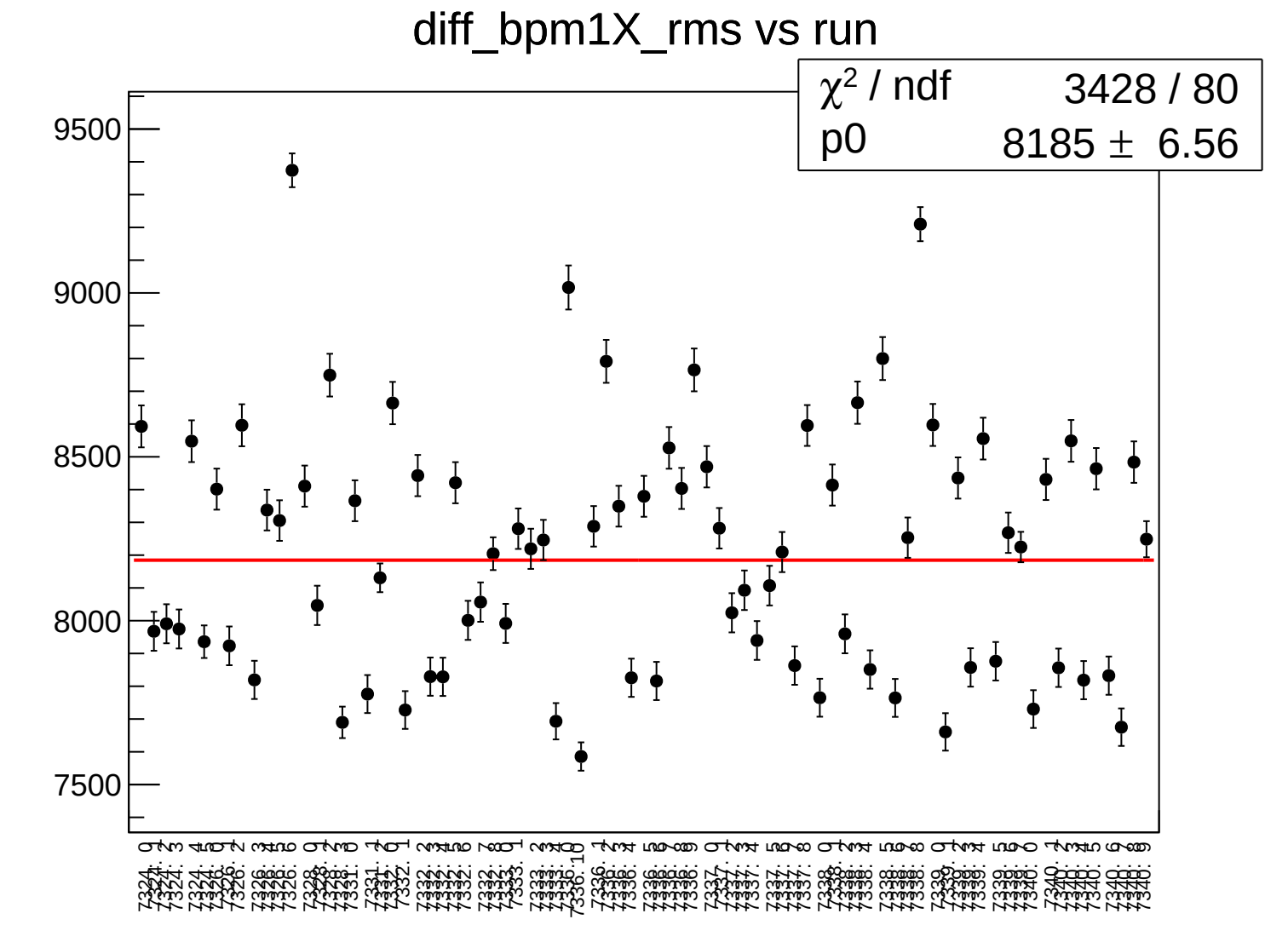

diff_bpm4ecY_mean vs run
χ² / ndf 81.91 / 80
p0 −1.748 ± 9.929
pull
Entries 81
Mean 1547
Std Dev 1511

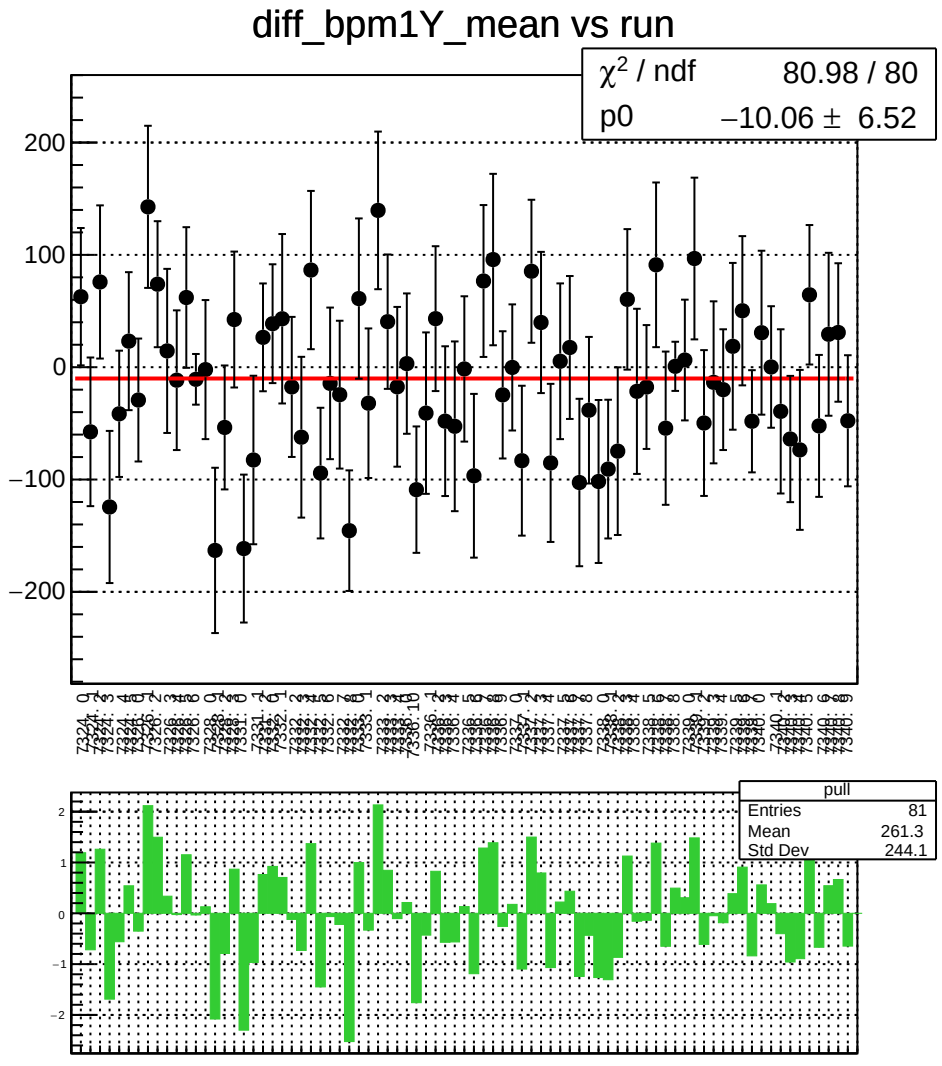

pull1D
Entries 81
Mean −0.00106
Std Dev 1.006

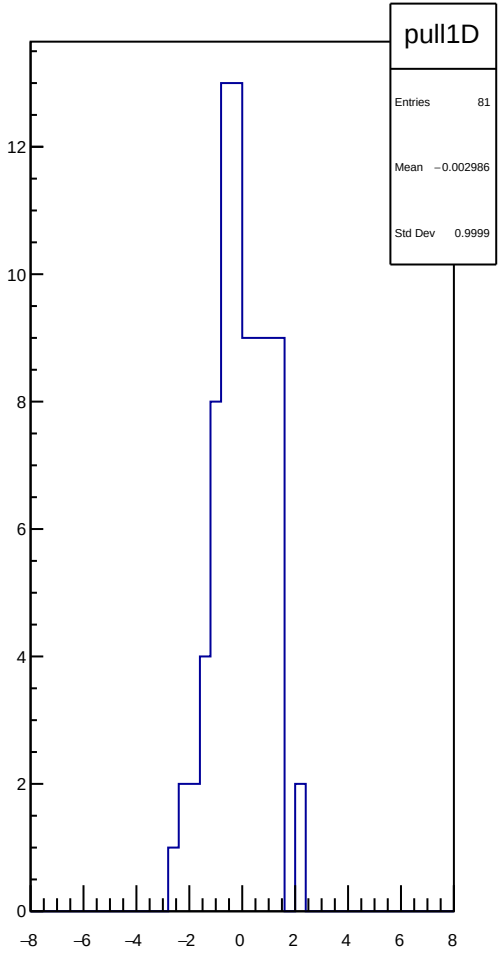

diff_bpm4ecY_rms vs run
χ² / ndf 1.3e+04 / 80
p0 8732 ± 7.021
12000
11000
10000
9000
8000
7000

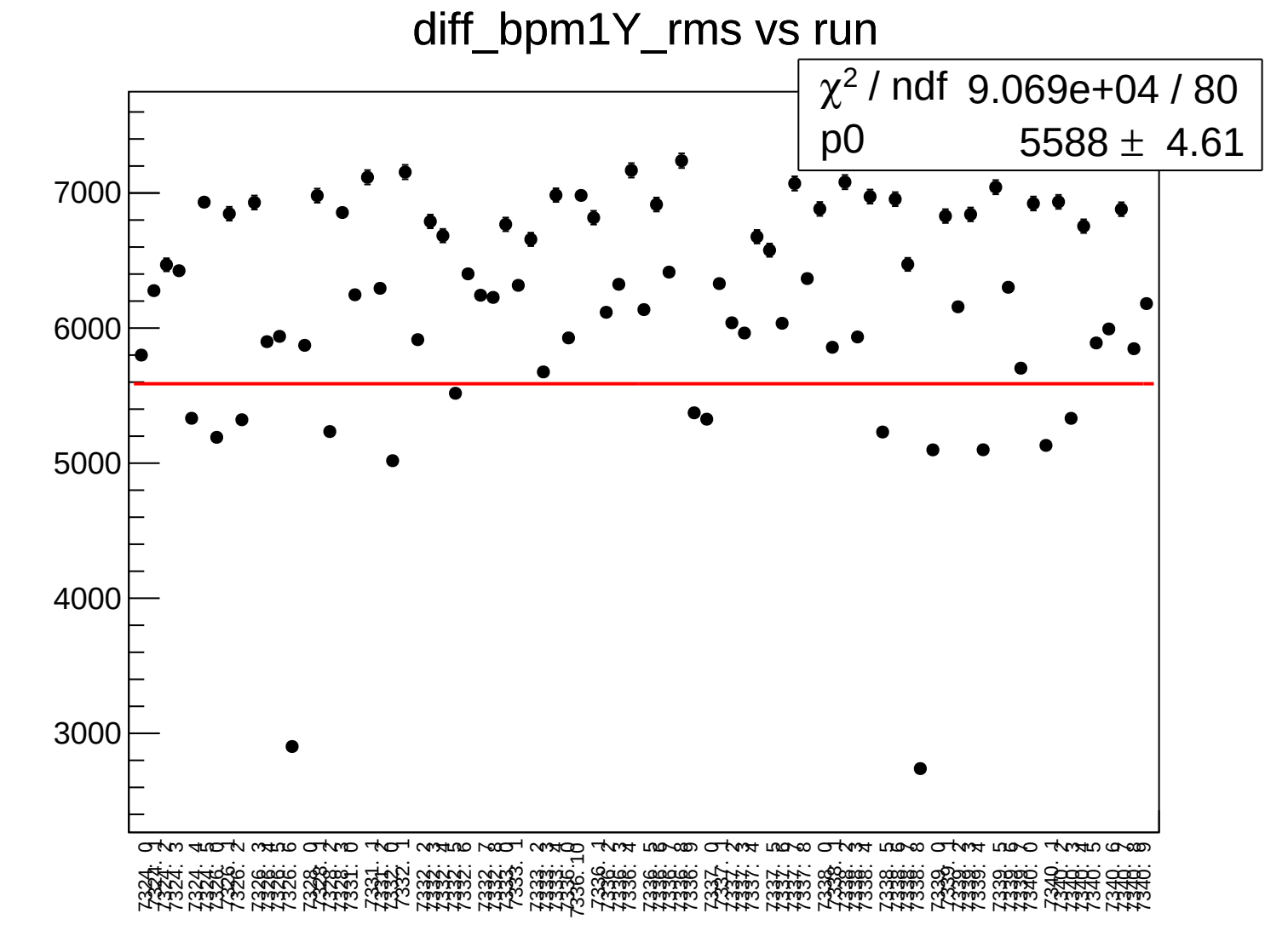

diff_bpm1X_mean vs run
χ² / ndf 73.8 / 80
p0 −2.328 ± 9.278
pull
Entries 81
Mean 2288
Std Dev 2217

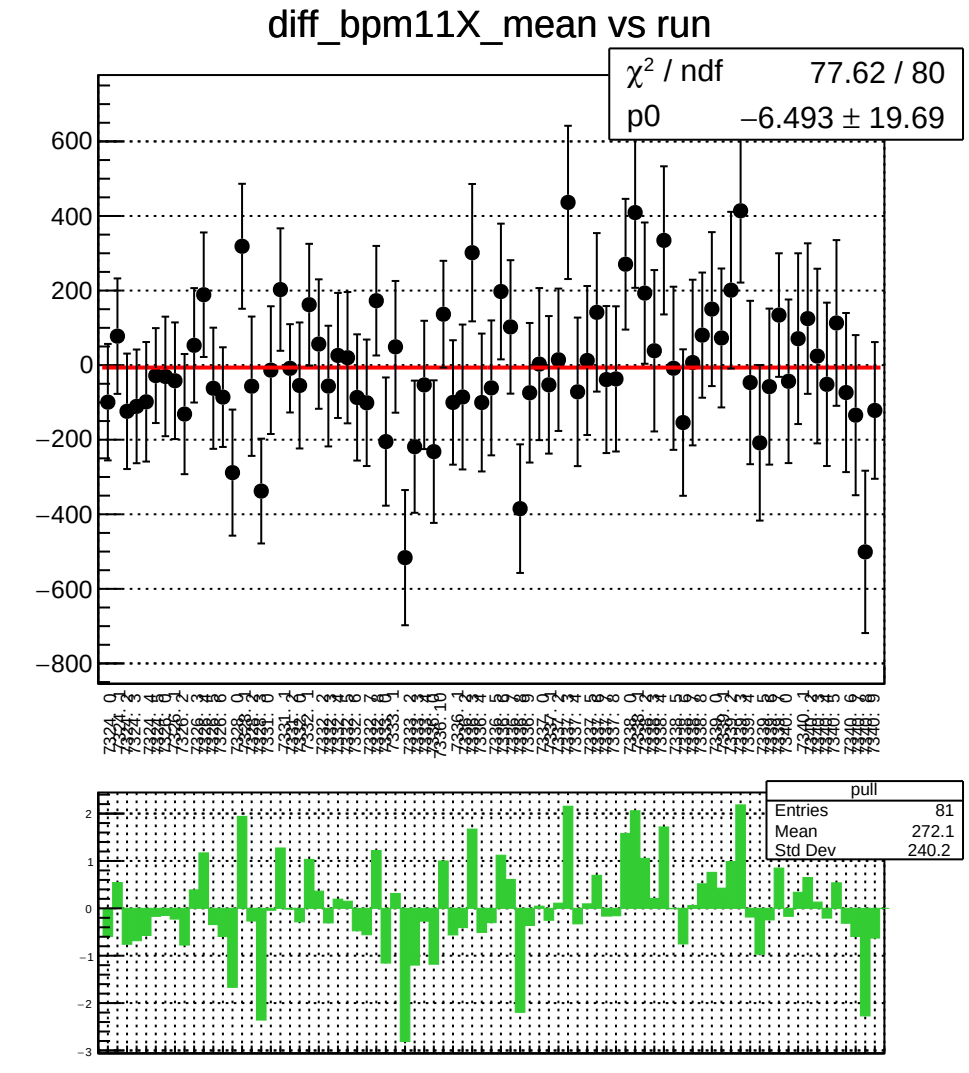

pull1D
Entries 81
Mean 0.0006152
Std Dev 0.9545

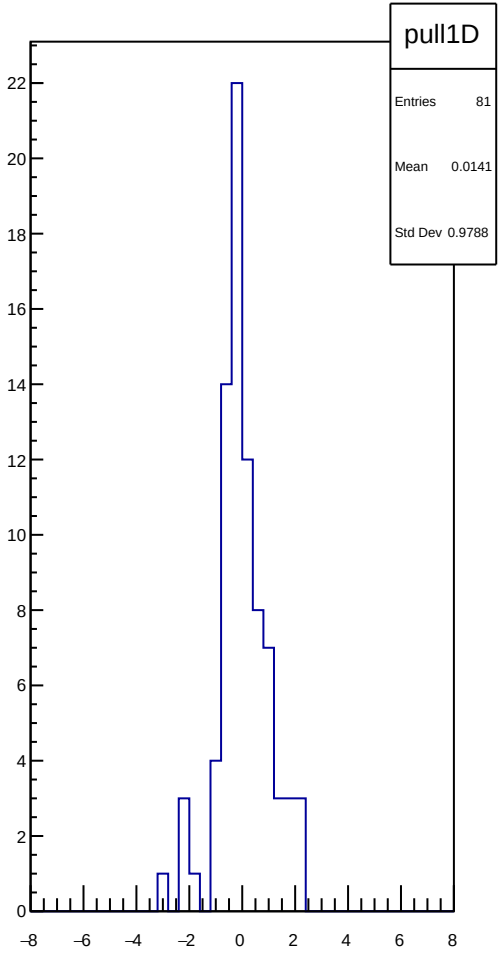

diff_bpm1X_rms vs run
χ² / ndf 3428 / 80
p0 8185 ± 6.56
9500
9000
8500
8000
7500

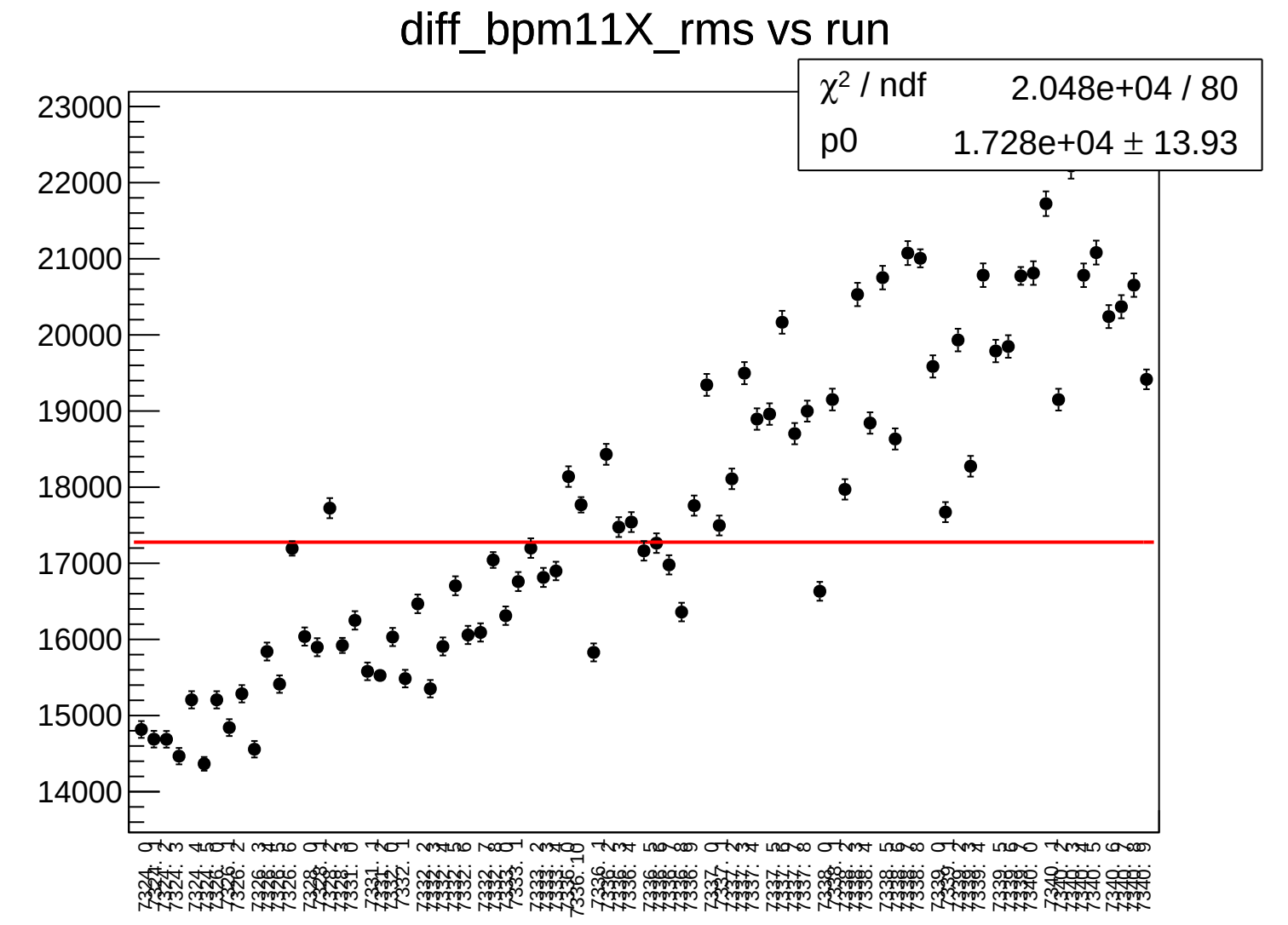

diff_bpm1Y_mean vs run
χ² / ndf 80.98 / 80
p0 −10.06 ± 6.52
200
100
0
−100
−200
pull
Entries 81
Mean 261.3
Std Dev 244.1
2
1
0
−1
−2

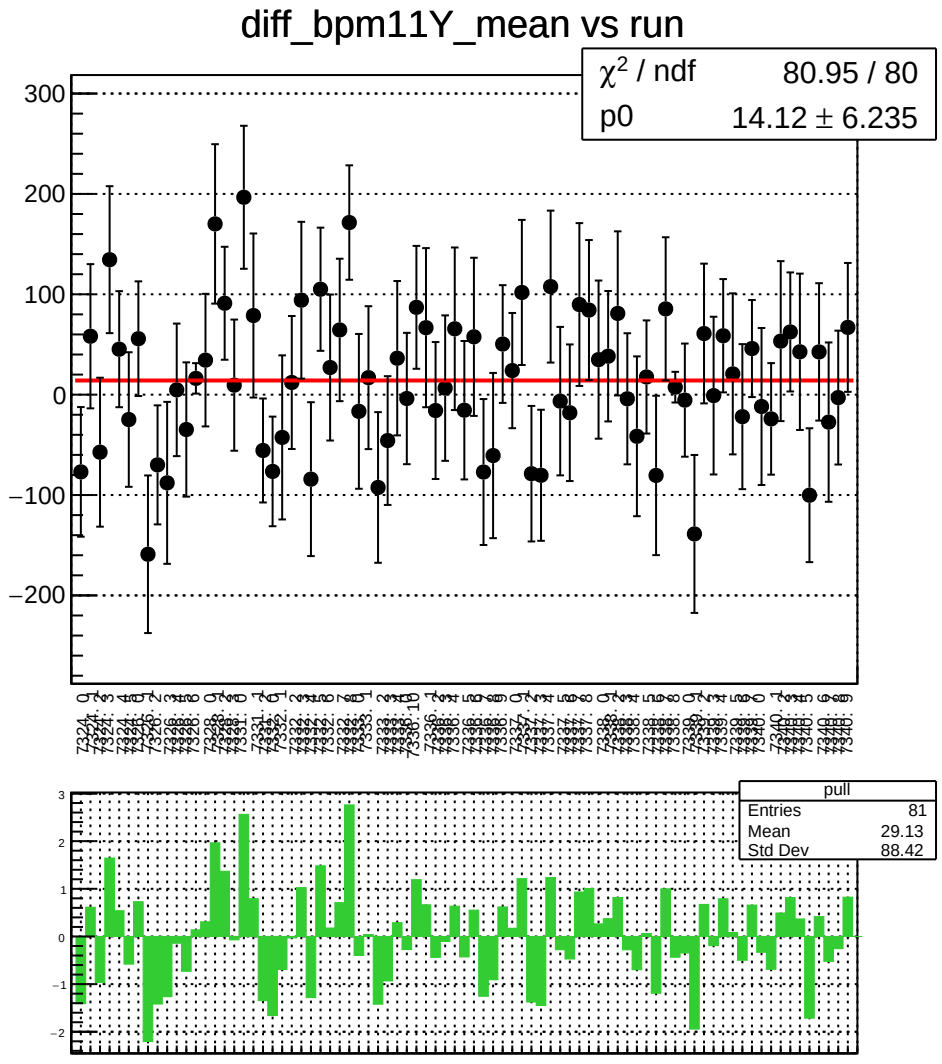

pull1D
Entries 81
Mean −0.002986
Std Dev 0.9999
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

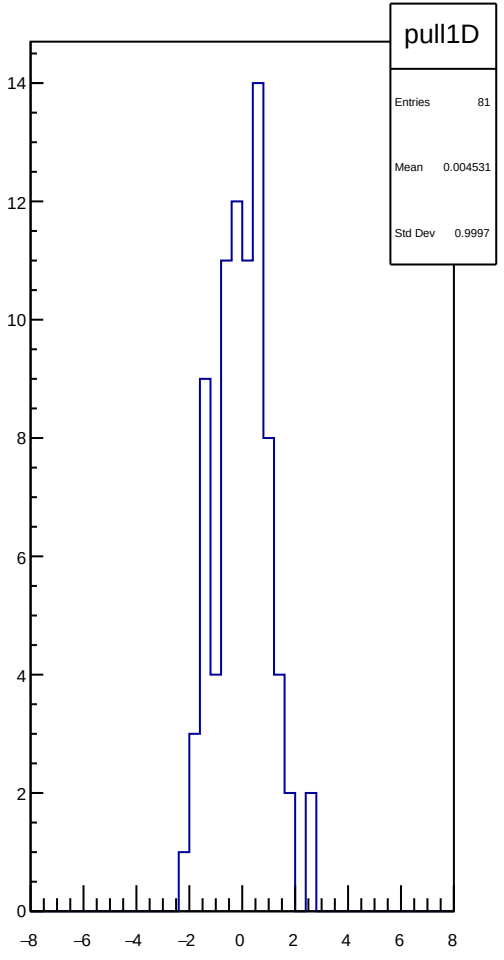

diff_bpm1Y_rms vs run
χ^2 / ndf 9.069e+04 / 80
p0 5588 ± 4.61
7000
6000
5000
4000
3000

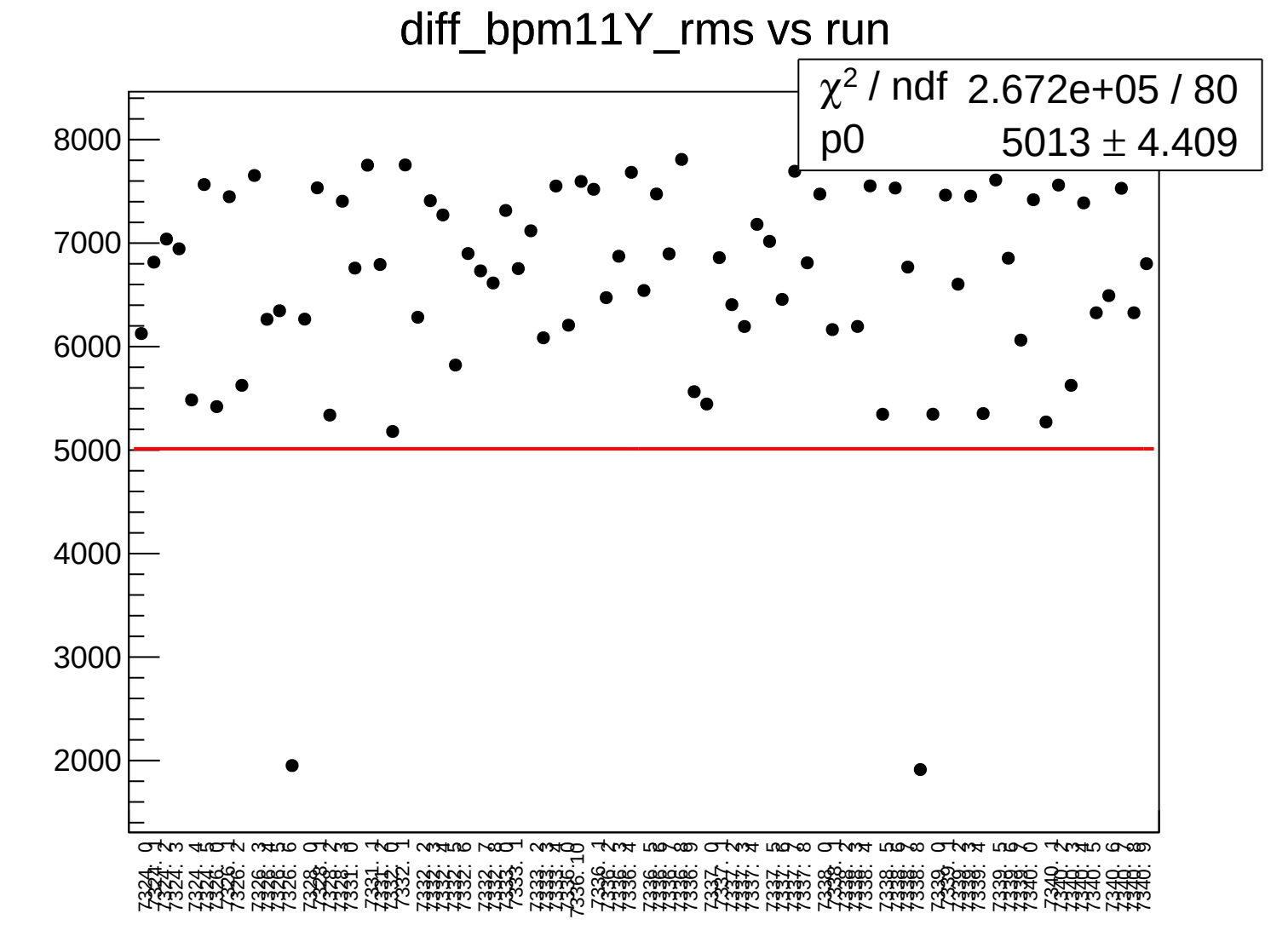

diff_bpm11X_mean vs run
χ² / ndf 77.62 / 80
p0 −6.493 ± 19.69
pull
Entries 81
Mean 272.1
Std Dev 240.2

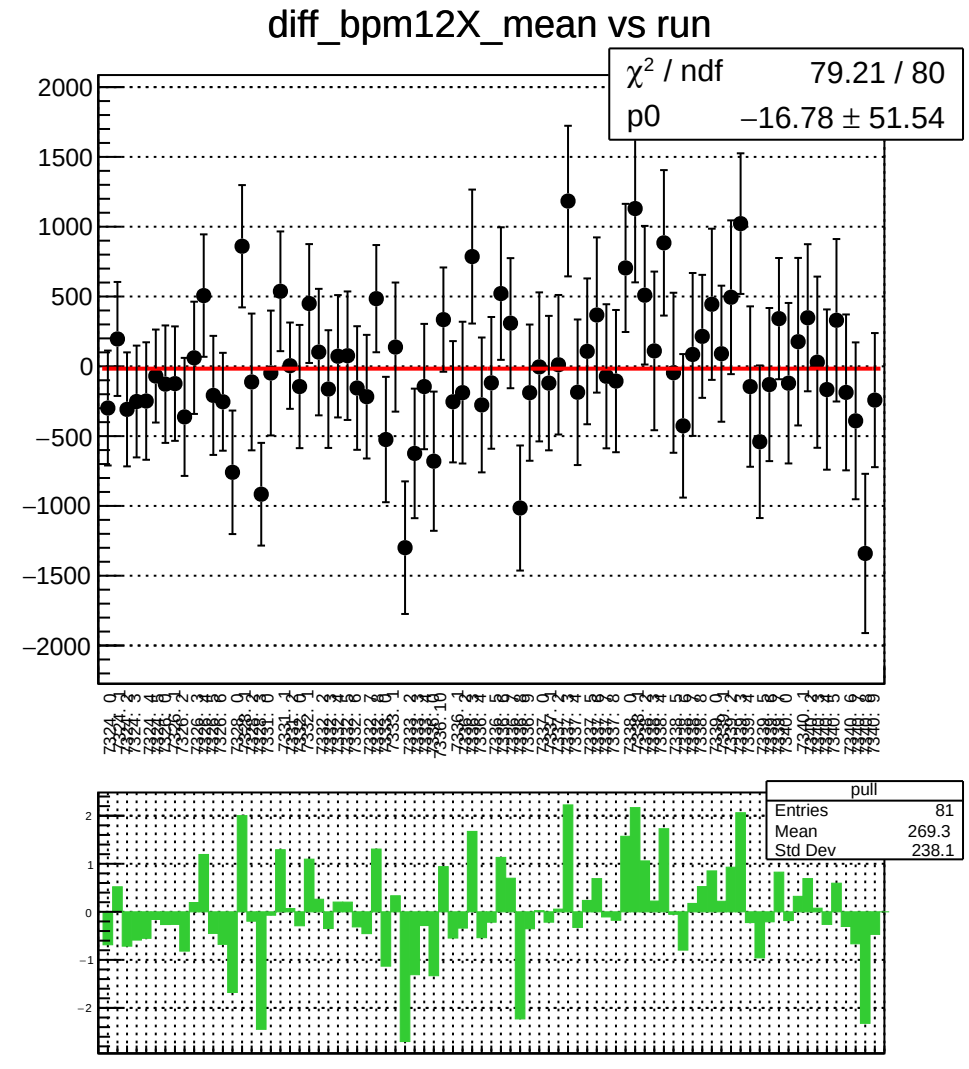

pull1D
Entries 81
Mean 0.0141
Std Dev 0.9788

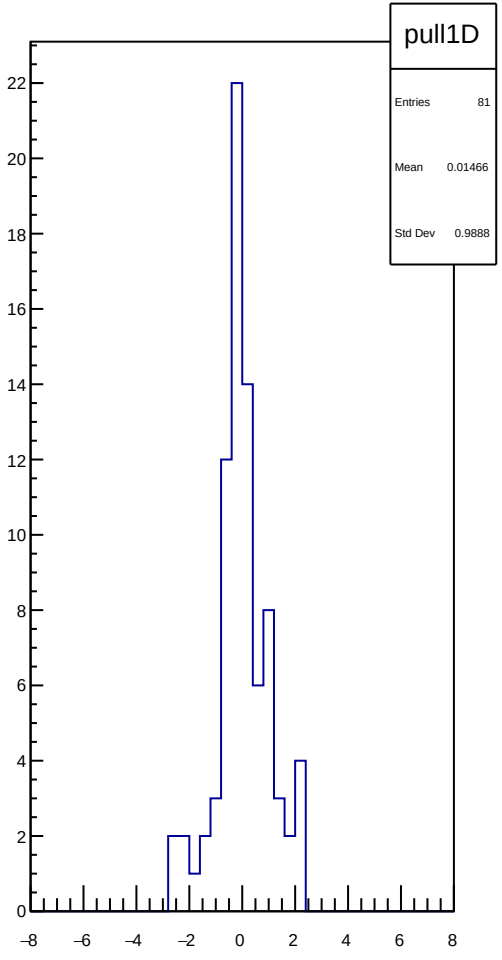

diff_bpm11X_rms vs run
χ² / ndf 2.048e+04 / 80
p0 1.728e+04 ± 13.93
23000
22000
21000
20000
19000
18000
17000
16000
15000
14000

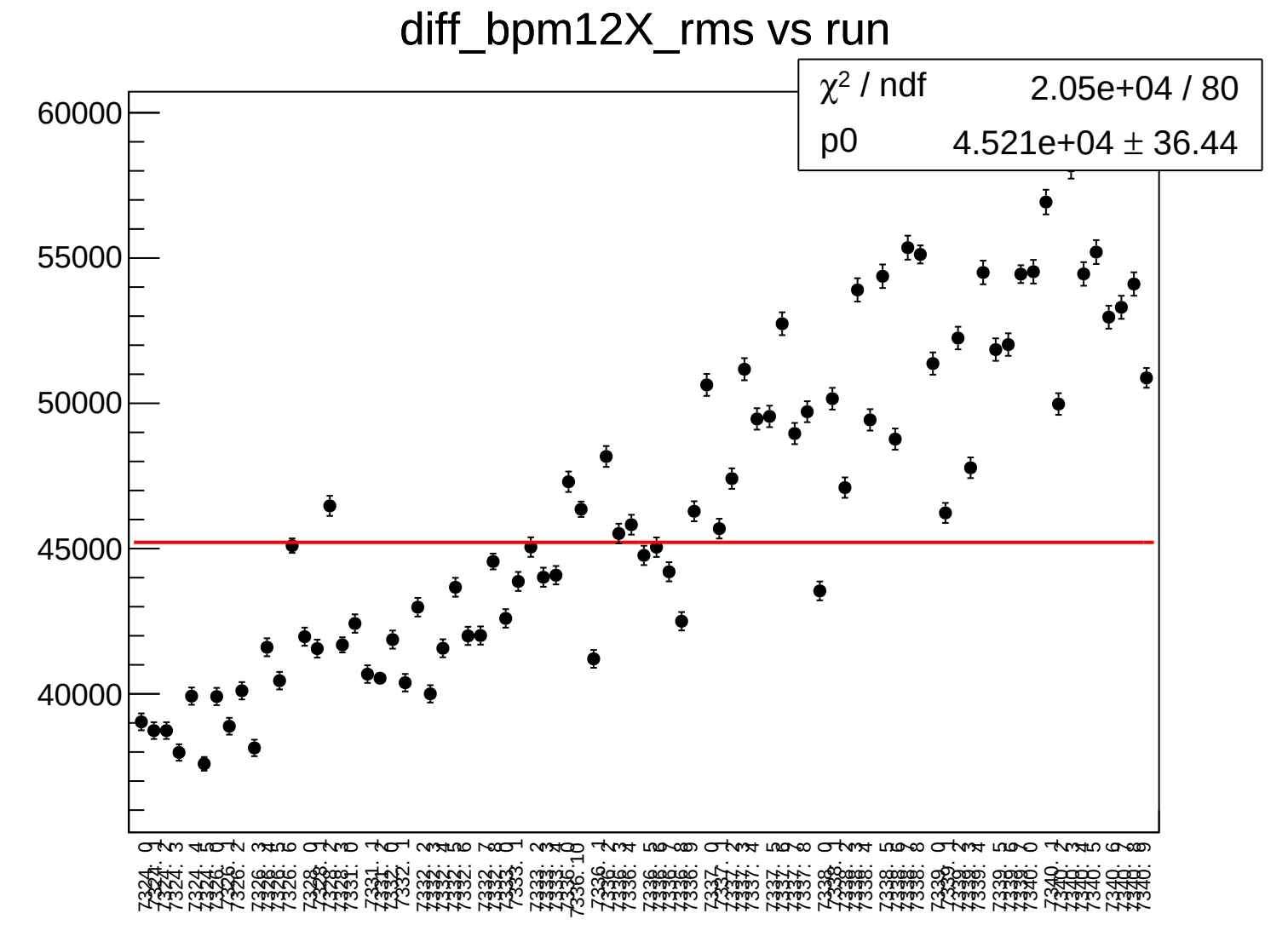

diff_bpm11Y_mean vs run
χ² / ndf 80.95 / 80
p0 14.12 ± 6.235
pull
Entries 81
Mean 29.13
Std Dev 88.42

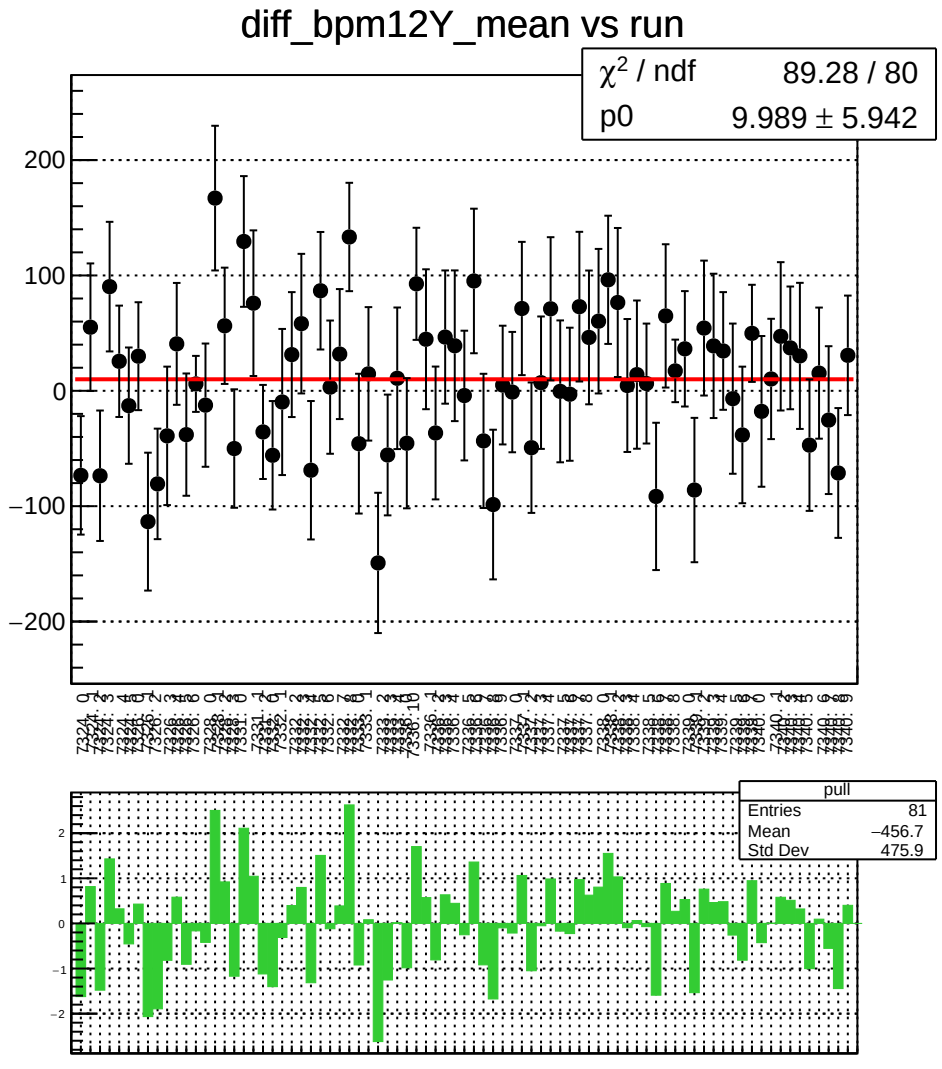

pull1D
Entries 81
Mean 0.004531
Std Dev 0.9997

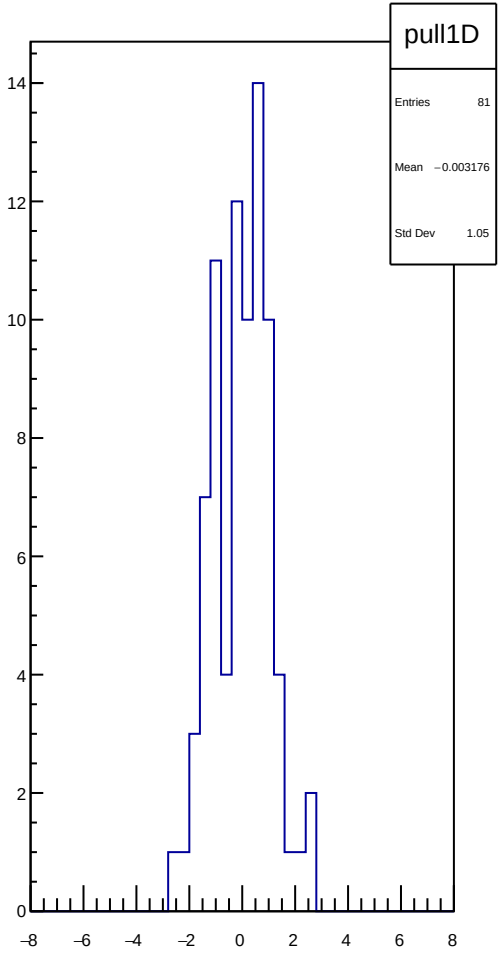

diff_bpm11Y_rms vs run
χ² / ndf 2.672e+05 / 80
p0 5013 ± 4.409
8000
7000
6000
5000
4000
3000
2000

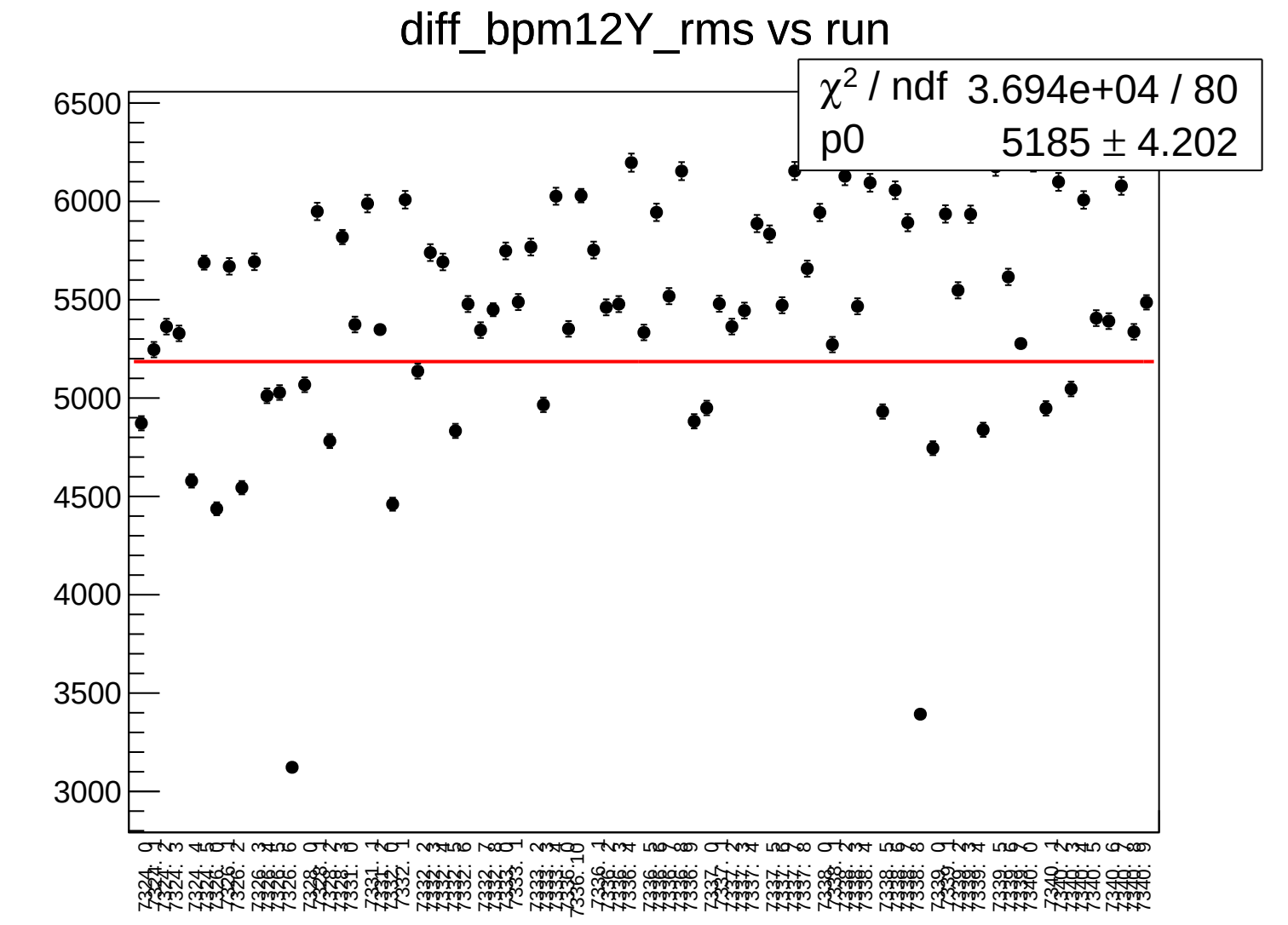

diff_bpm12X_mean vs run
χ² / ndf 79.21 / 80
p0 −16.78 ± 51.54
pull
Entries 81
Mean 269.3
Std Dev 238.1

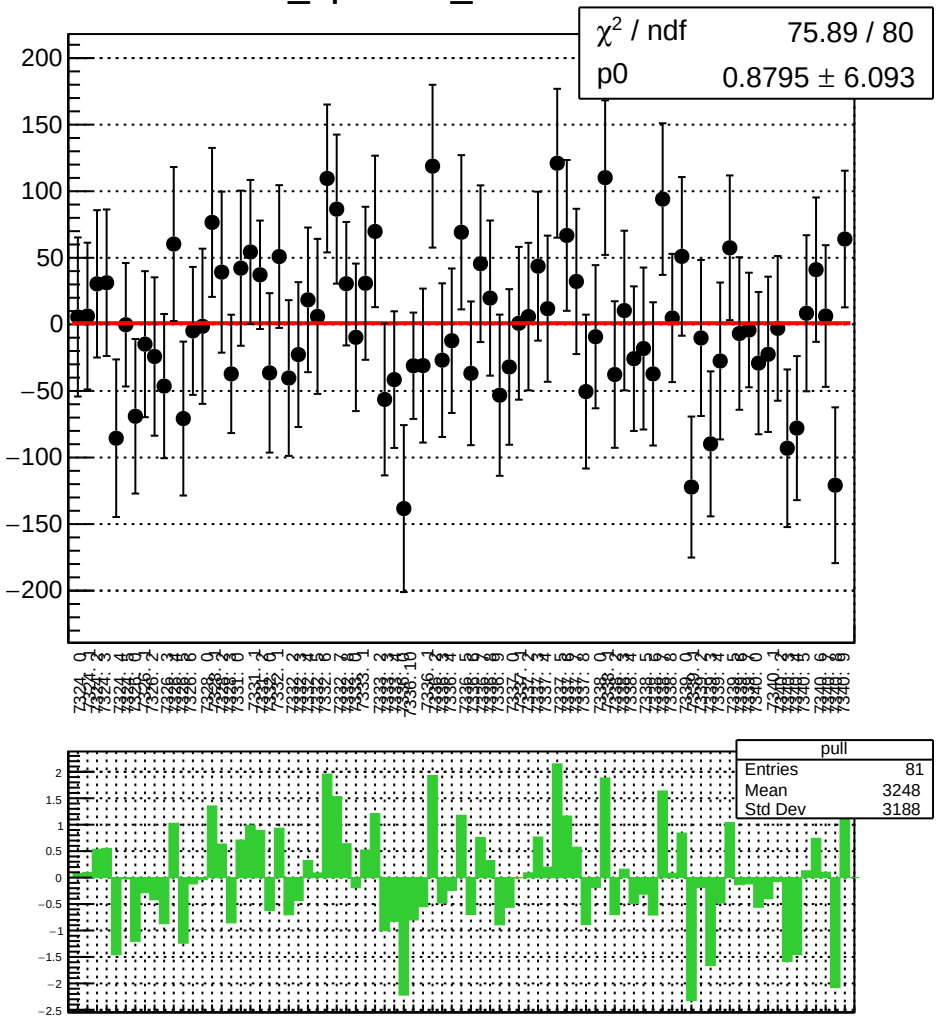

pull1D
Entries 81
Mean 0.01466
Std Dev 0.9888

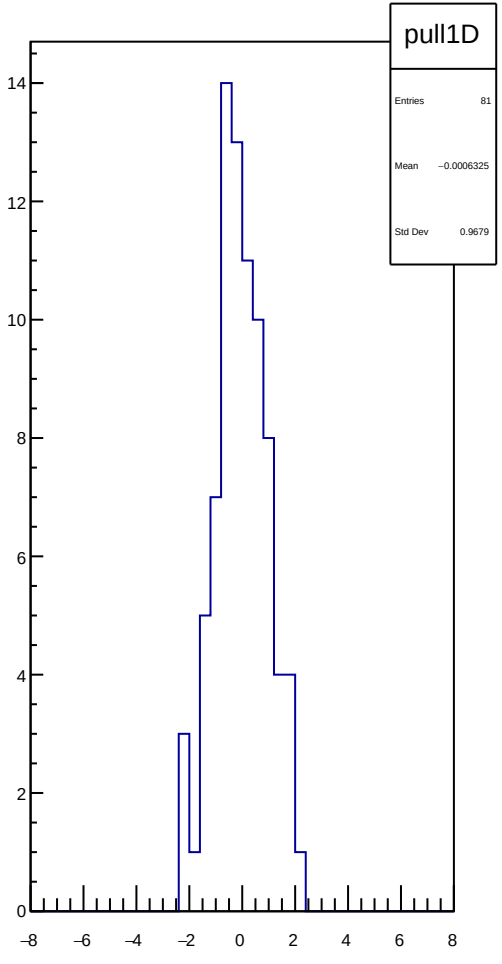

diff_bpm12X_rms vs run
χ² / ndf 2.05e+04 / 80
p0 4.521e+04 ± 36.44
60000
55000
50000
45000
40000

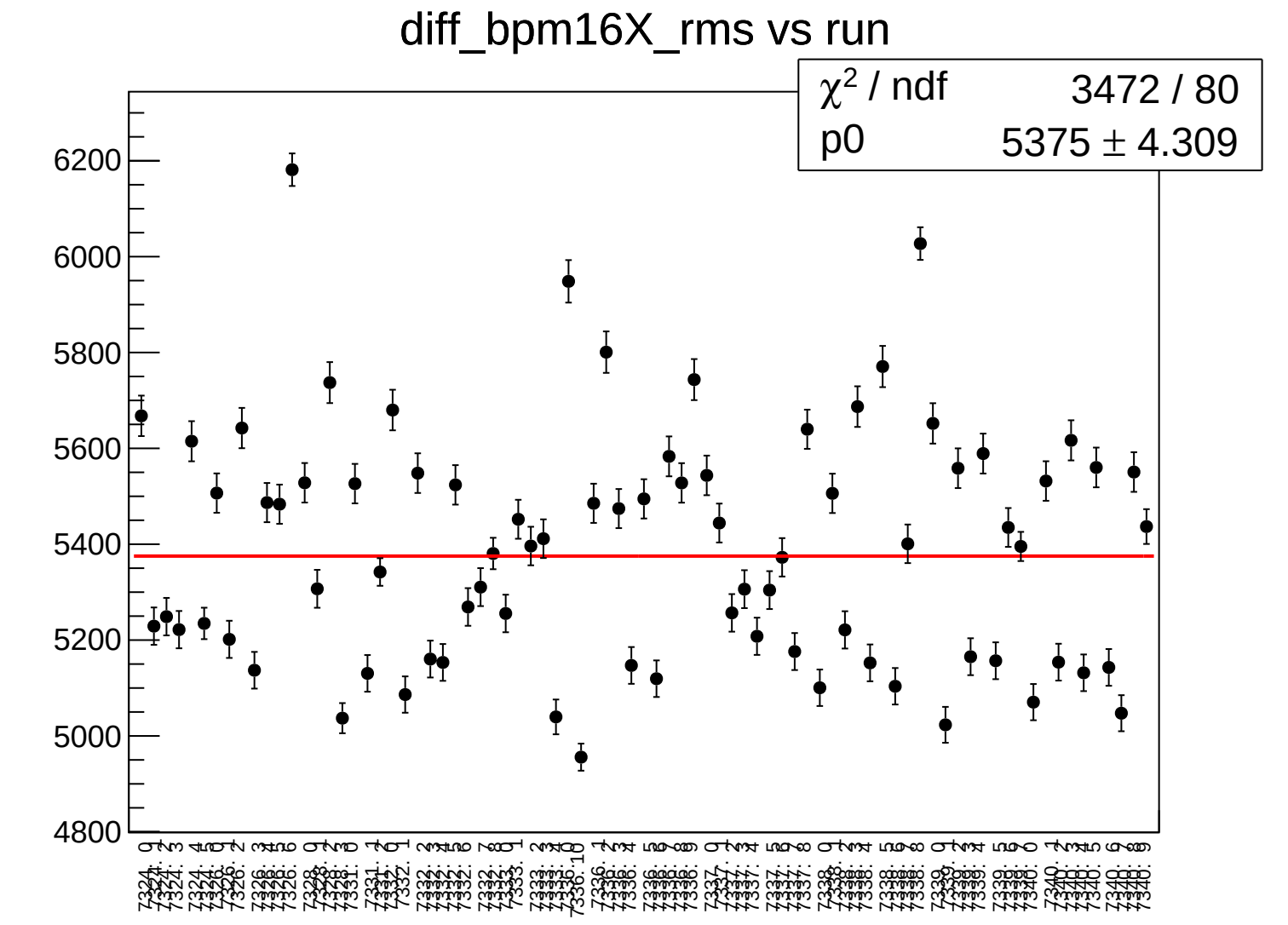

diff_bpm12Y_mean vs run
χ^2 / ndf 89.28 / 80
p0 9.989 ± 5.942
200
100
0
−100
−200
pull
Entries 81
Mean −456.7
Std Dev 475.9
2
1
0
−1
−2

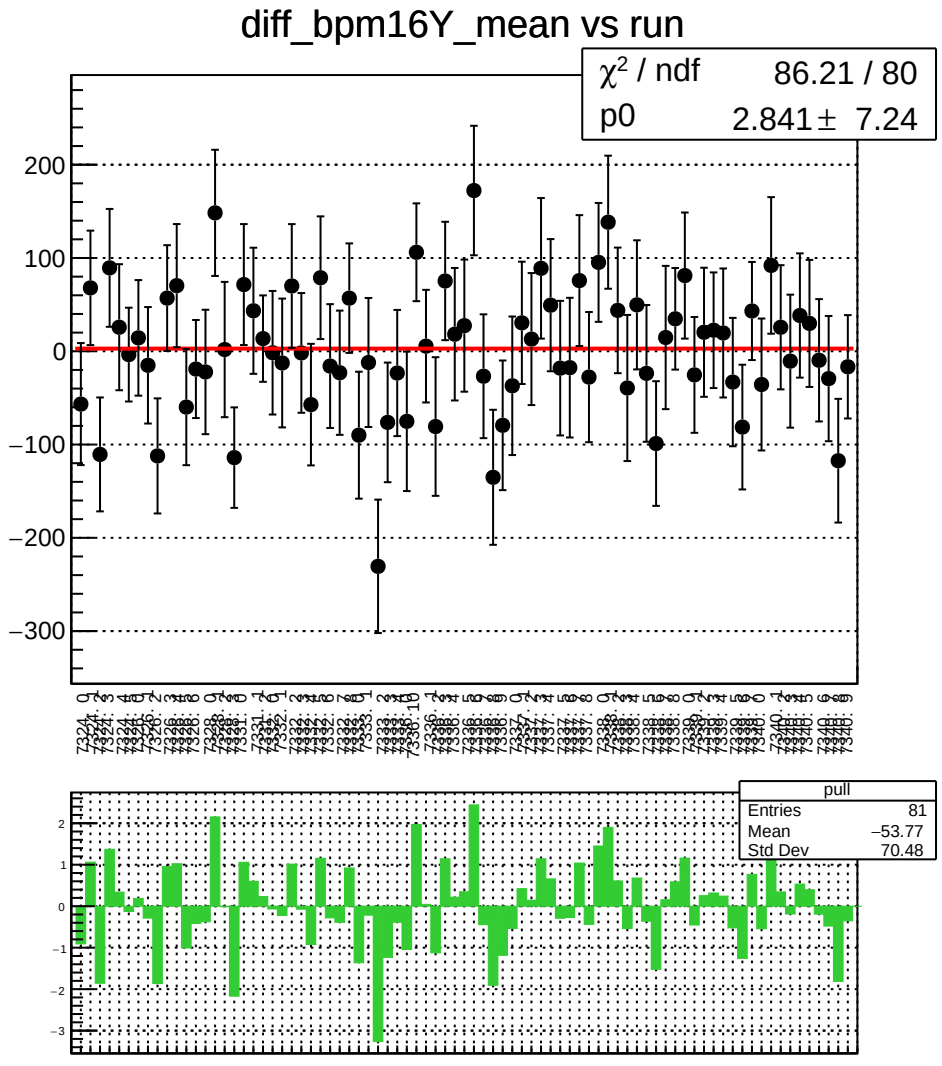

pull1D
Entries 81
Mean −0.003176
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

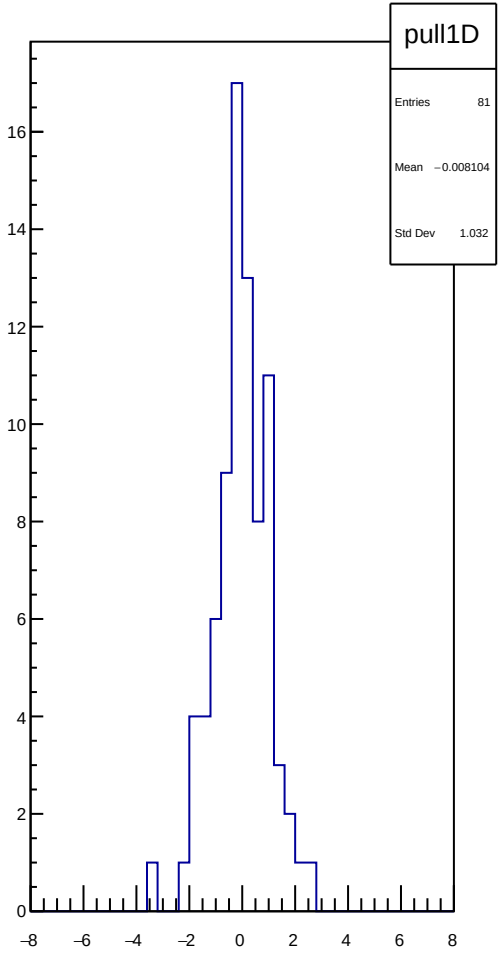

diff_bpm12Y_rms vs run
χ² / ndf 3.694e+04 / 80
p0 5185 ± 4.202
6500
6000
5500
5000
4500
4000
3500
3000

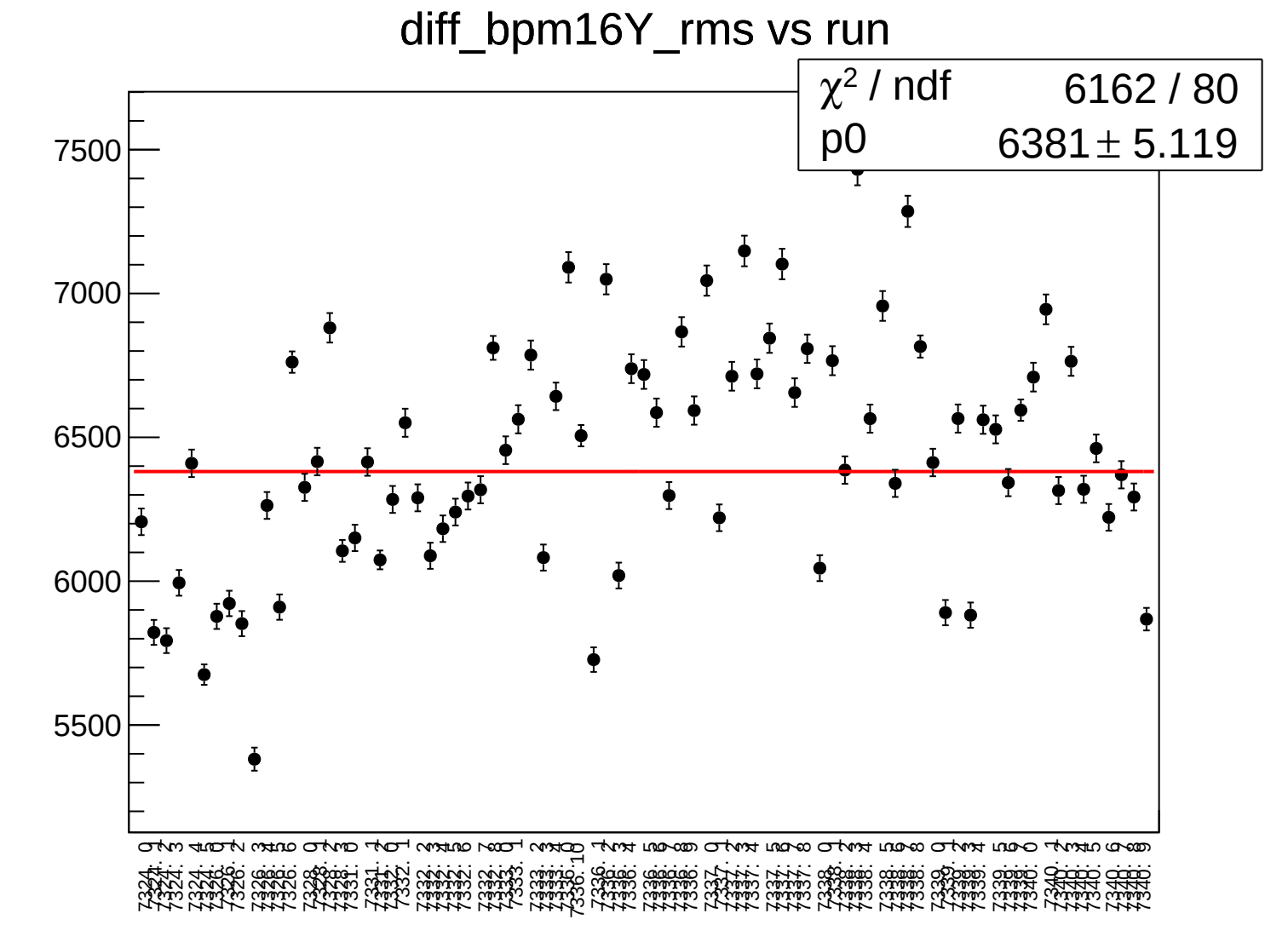

diff_bpm16X_mean vs run
χ^2 / ndf 75.89 / 80
p0 0.8795 ± 6.093
pull
Entries 81
Mean 3248
Std Dev 3188

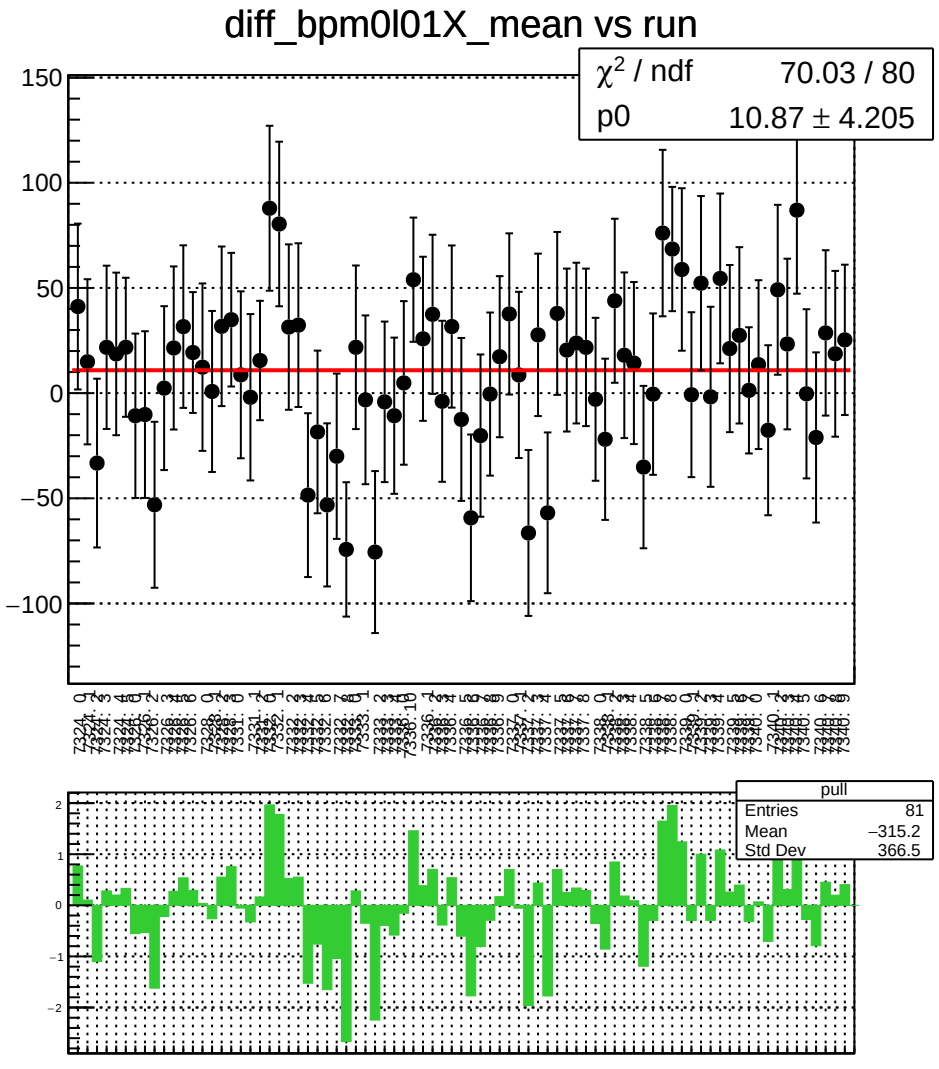

pull1D
Entries 81
Mean −0.0006325
Std Dev 0.9679

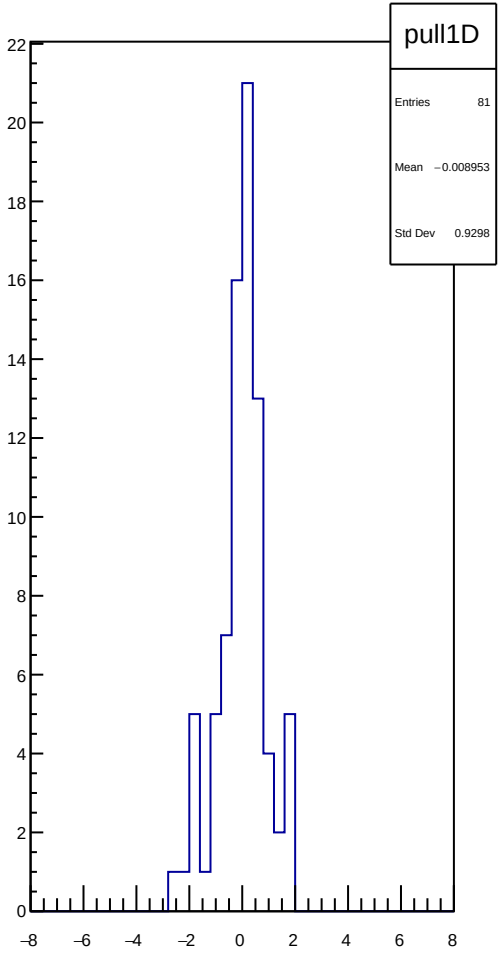

diff_bpm16X_rms vs run
χ² / ndf 3472 / 80
p0 5375 ± 4.309
6200
6000
5800
5600
5400
5200
5000
4800

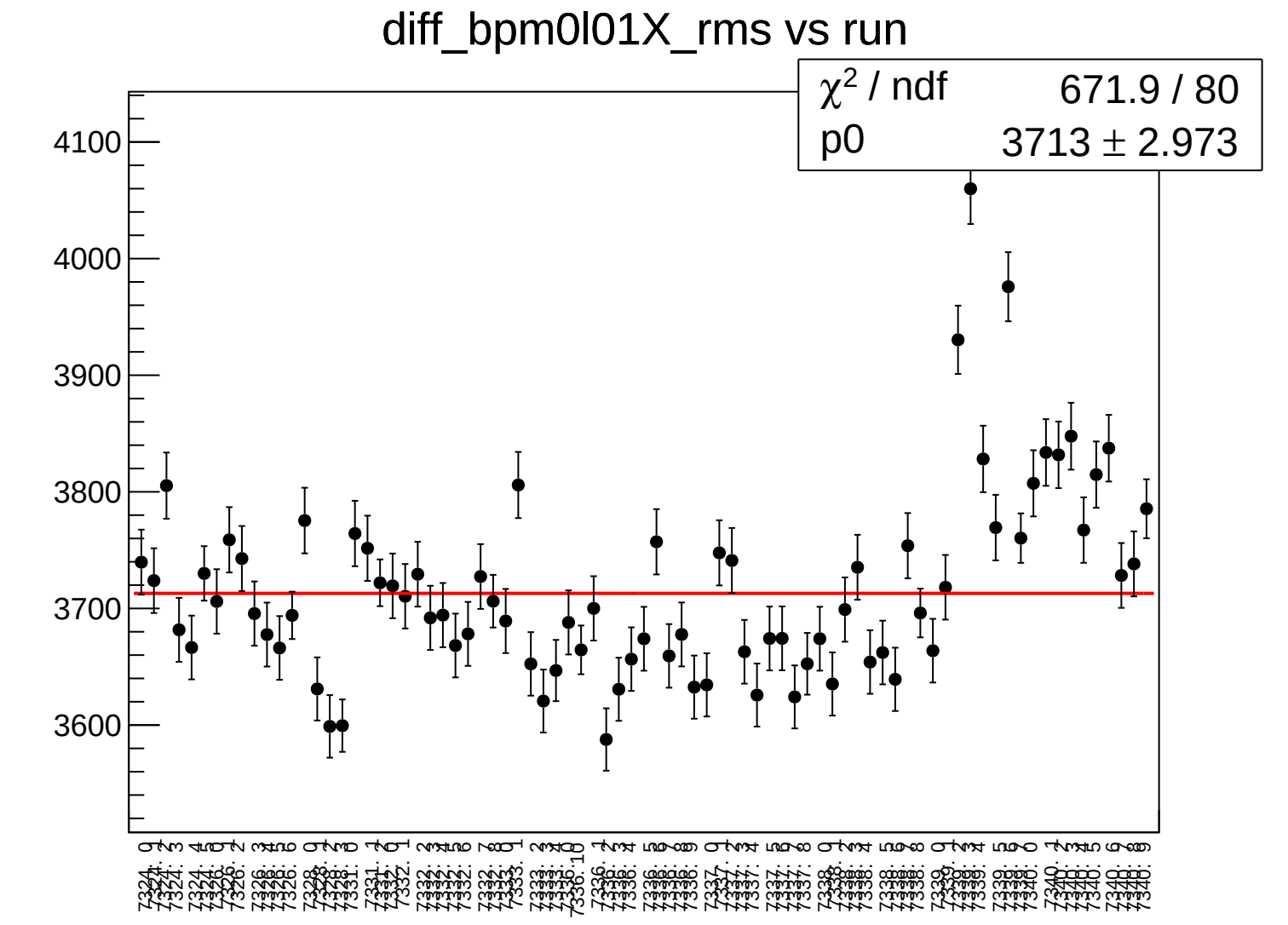

diff_bpm16Y_mean vs run
χ² / ndf 86.21 / 80
p0 2.841 ± 7.24
pull
Entries 81
Mean −53.77
Std Dev 70.48

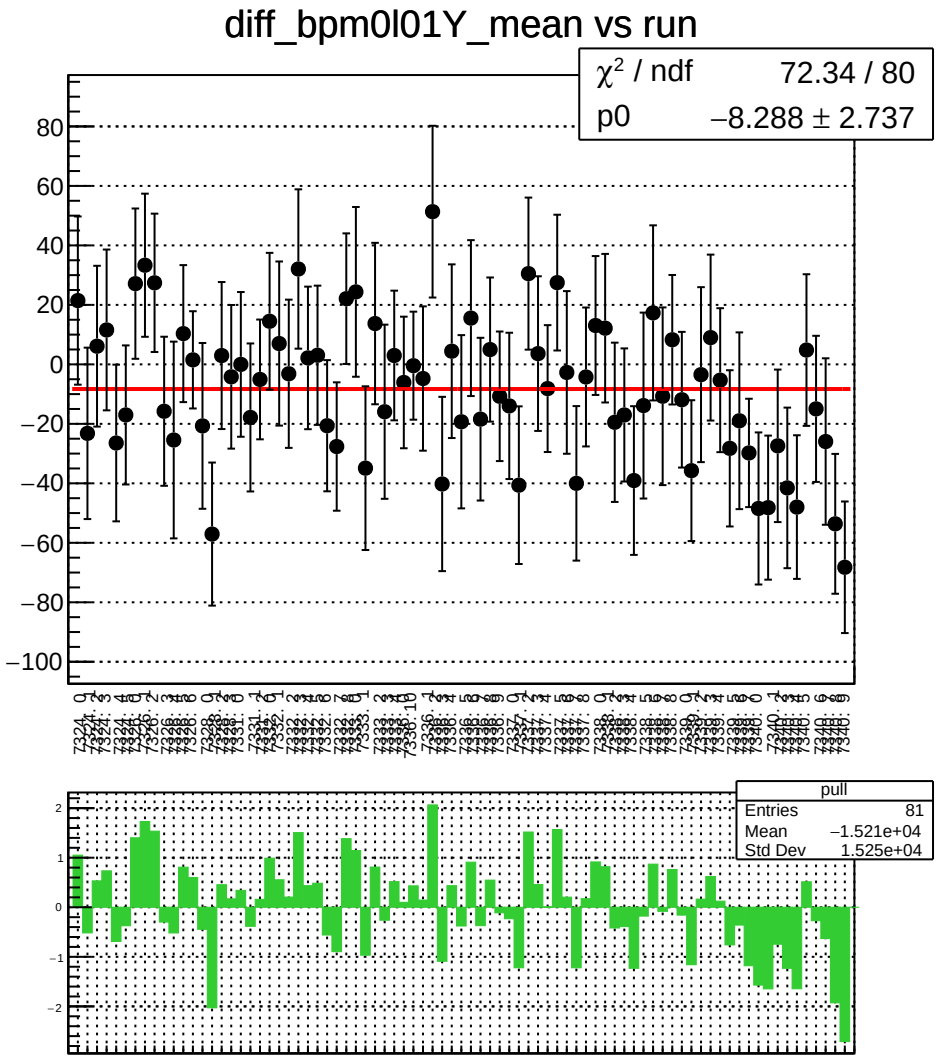

pull1D
Entries 81
Mean −0.008104
Std Dev 1.032

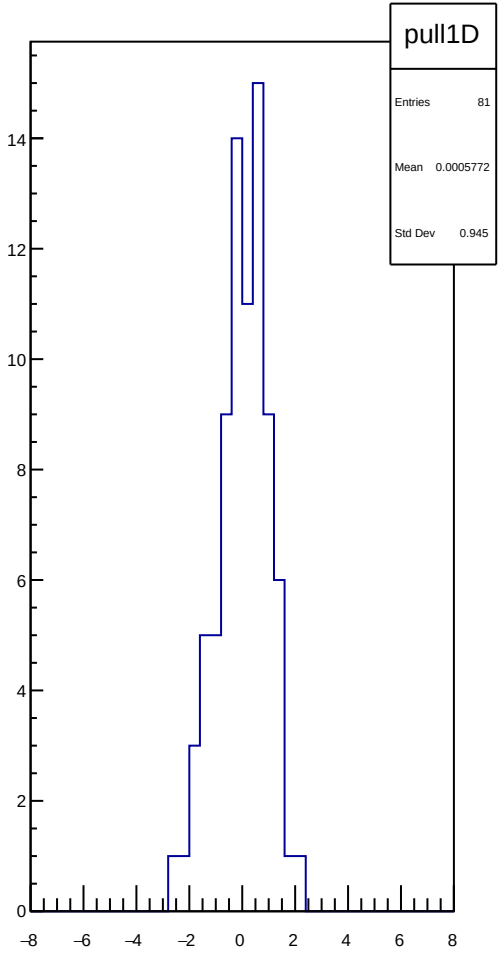

diff_bpm16Y_rms vs run
χ² / ndf 6162 / 80
p0 6381 ± 5.119
7500
7000
6500
6000
5500

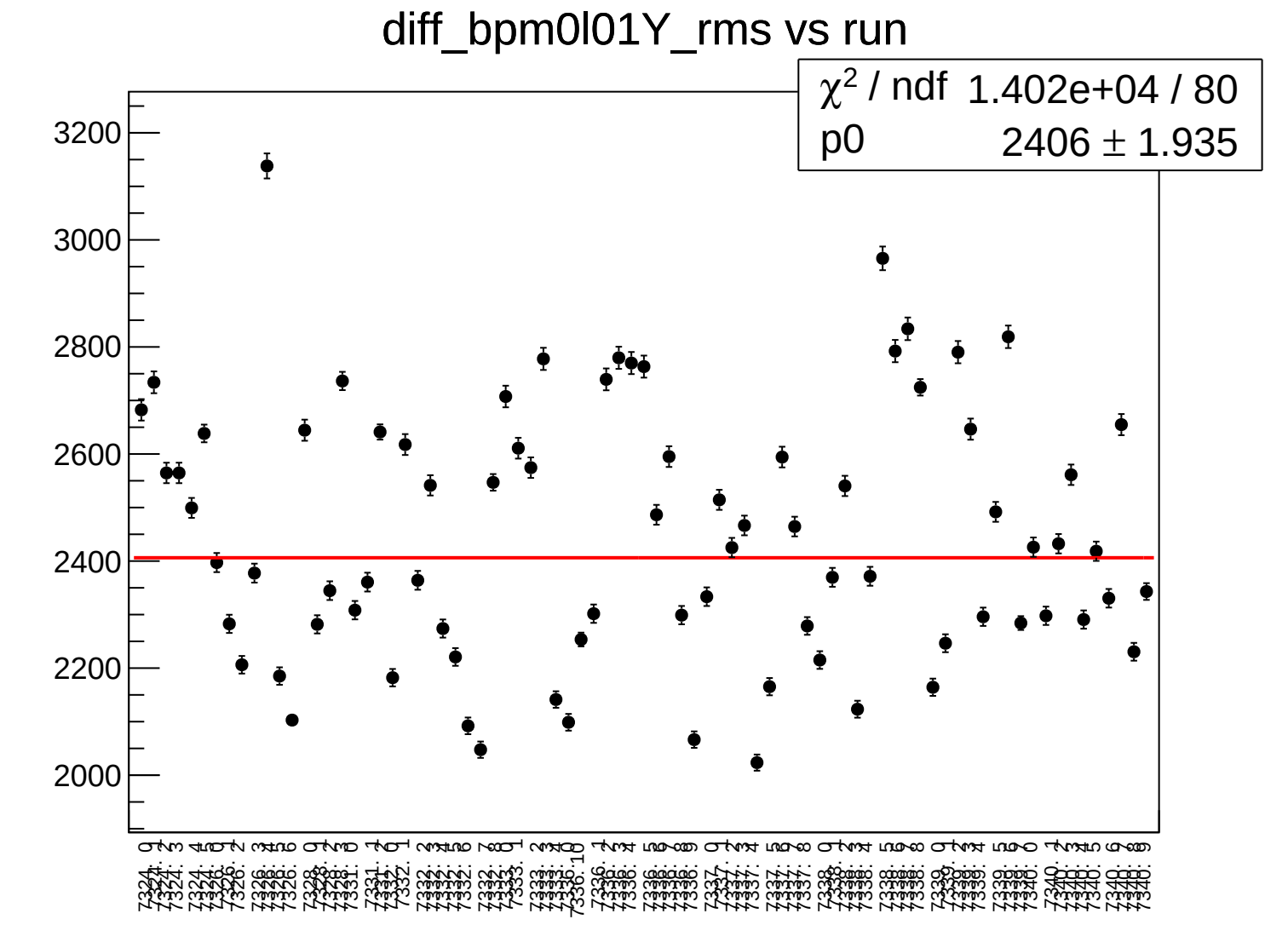

diff_bpm0l01X_mean vs run
χ^2 / ndf 70.03 / 80
p0 10.87 ± 4.205
pull
Entries 81
Mean −315.2
Std Dev 366.5

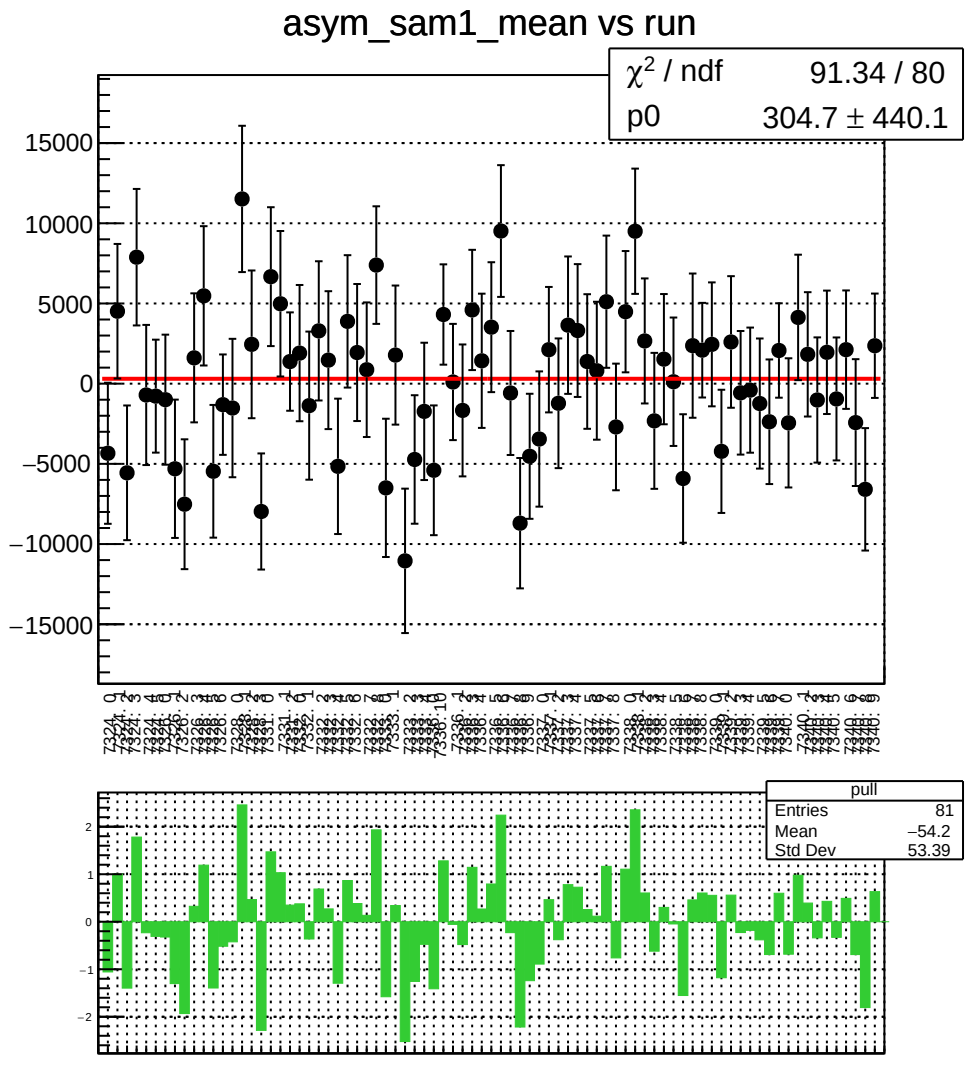

pull1D
Entries 81
Mean −0.008953
Std Dev 0.9298

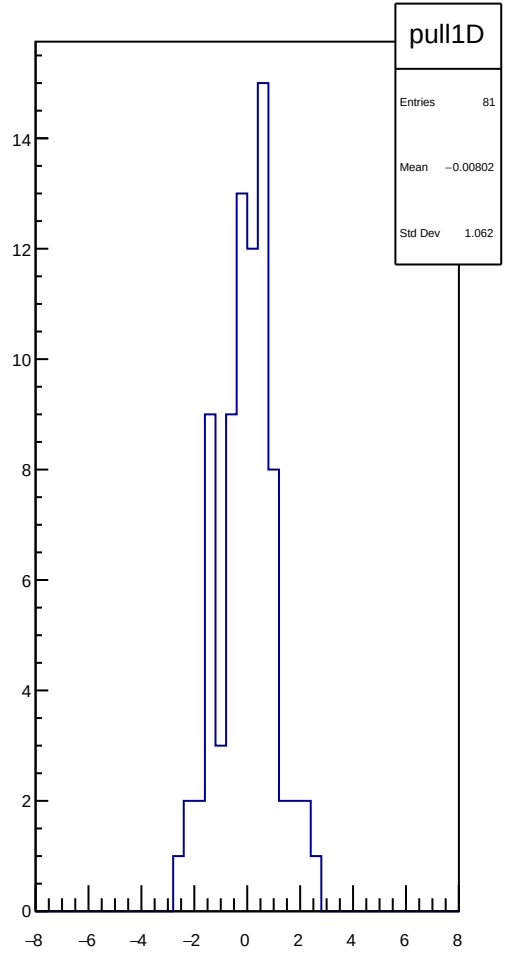

diff_bpm0l01X_rms vs run
χ^2 / ndf 671.9 / 80
p0 3713 ± 2.973
4100
4000
3900
3800
3700
3600

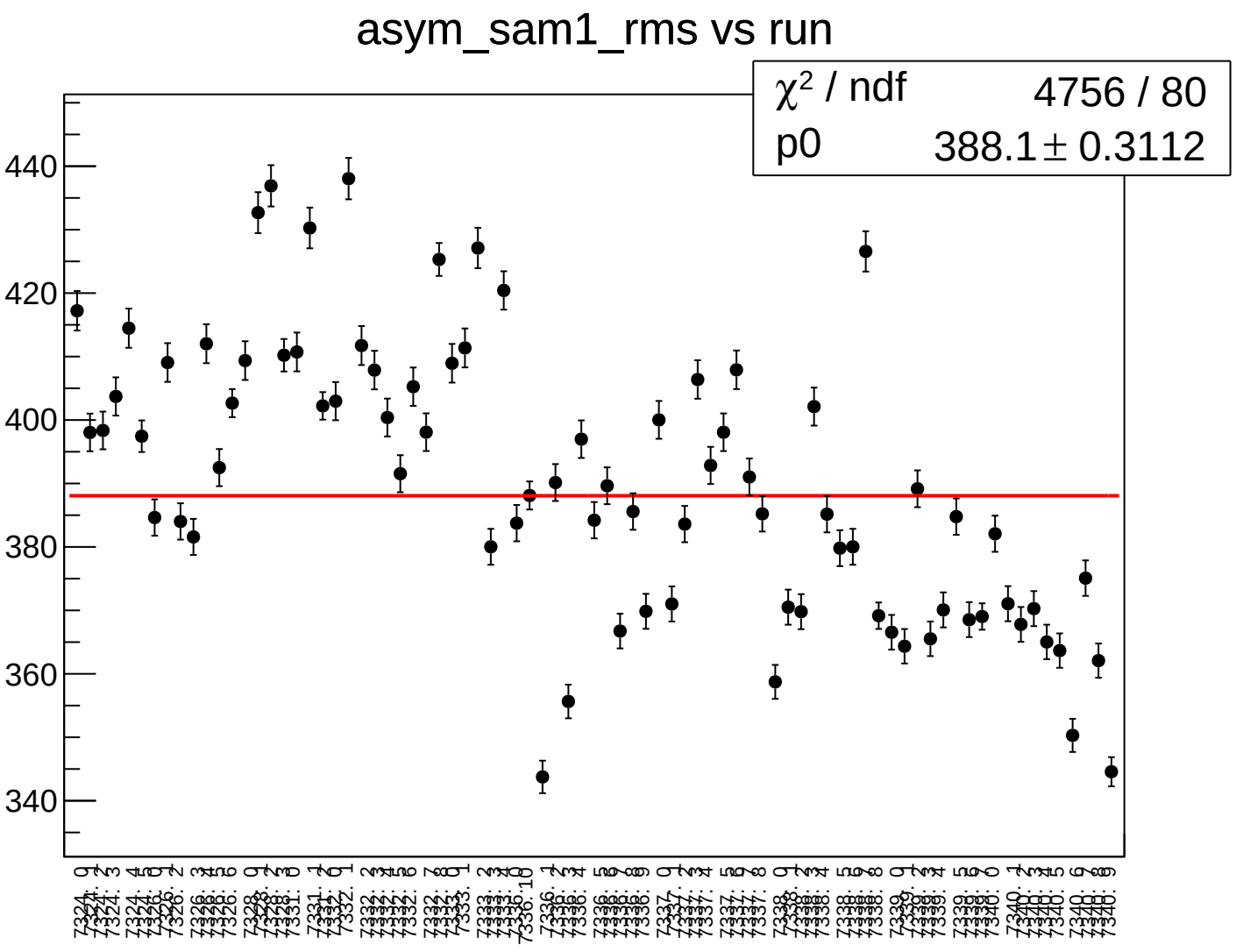

diff_bpm0l01Y_mean vs run
χ² / ndf 72.34 / 80
p0 −8.288 ± 2.737
pull
Entries 81
Mean −1.521e+04
Std Dev 1.525e+04

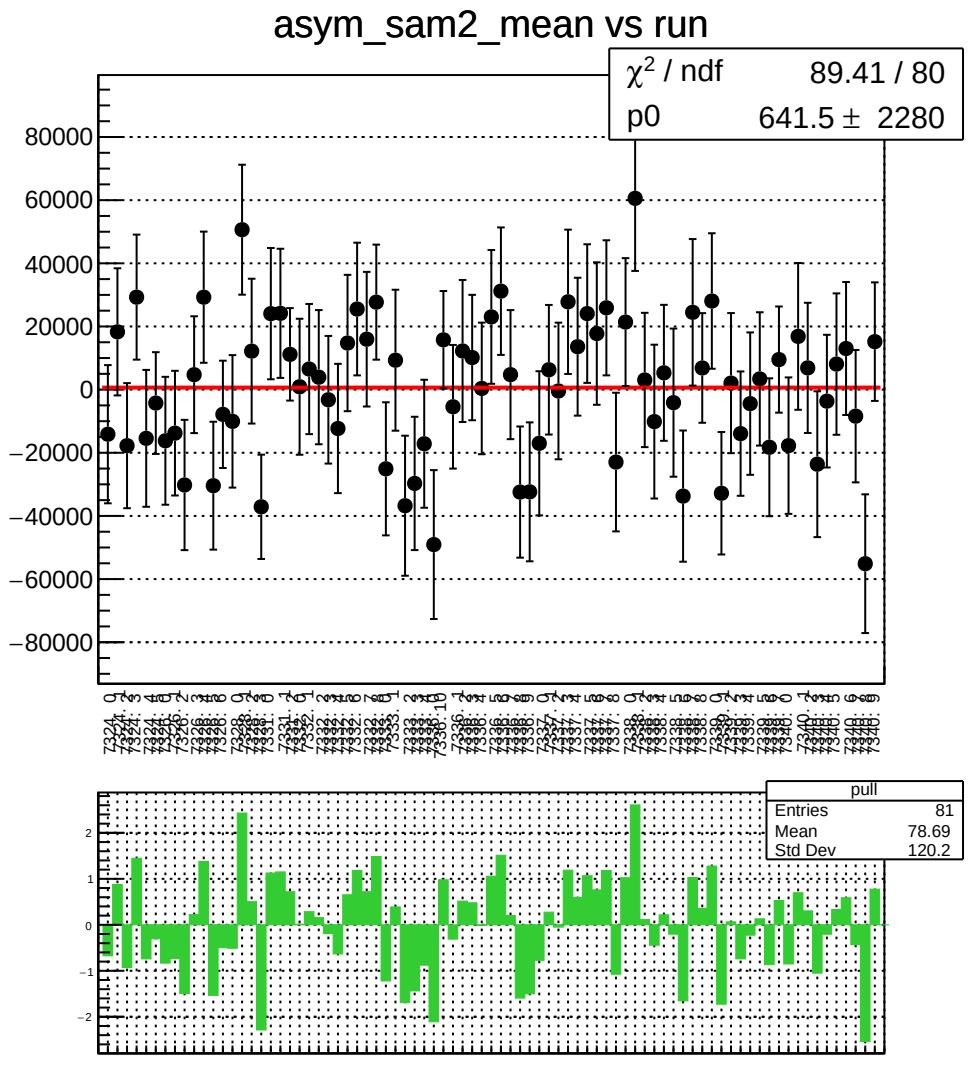

pull1D
Entries 81
Mean 0.0005772
Std Dev 0.945

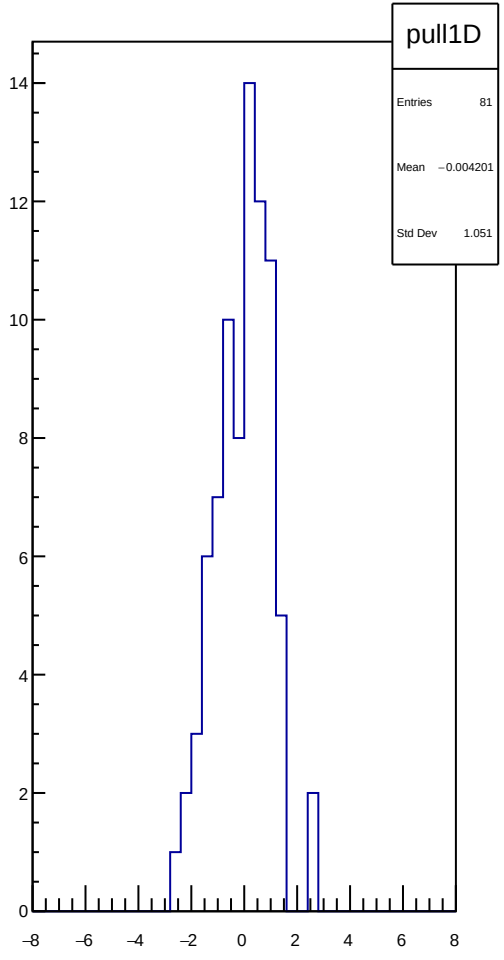

diff_bpm0l01Y_rms vs run
χ² / ndf 1.402e+04 / 80
p0 2406 ± 1.935
3200
3000
2800
2600
2400
2200
2000

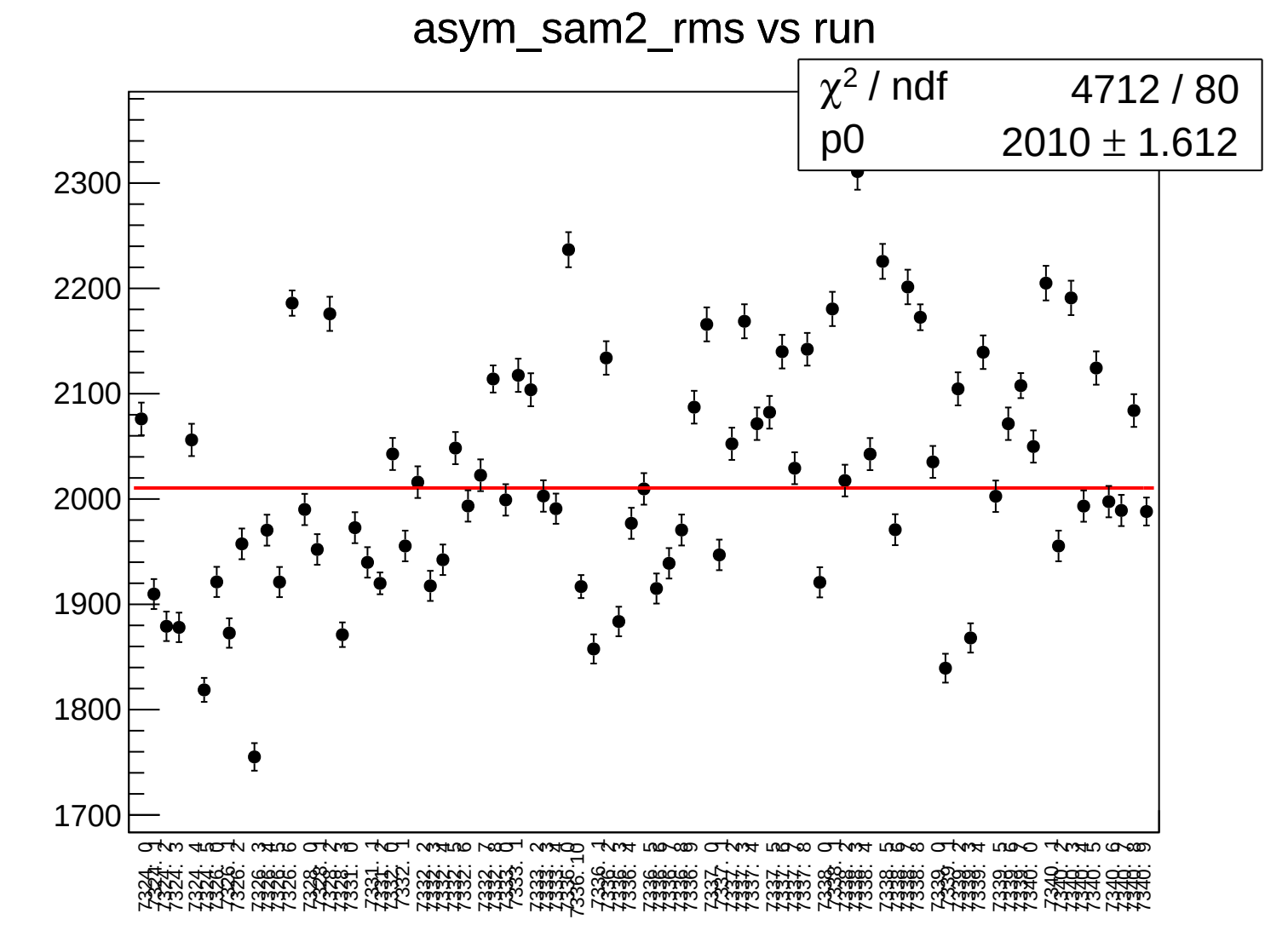

asym_sam1_mean vs run
χ² / ndf 91.34 / 80
p0 304.7 ± 440.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −54.2
Std Dev 53.39
2
1
0
−1
−2

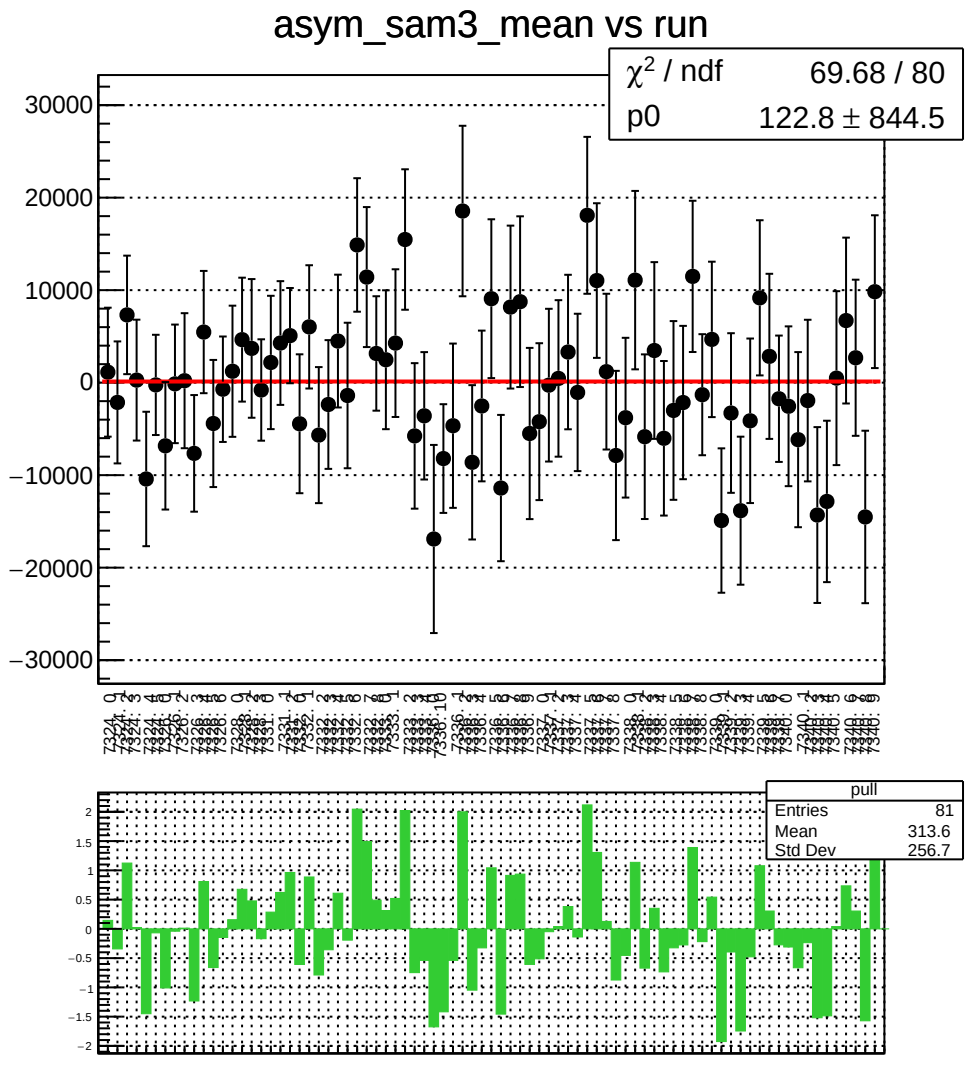

pull1D
Entries 81
Mean −0.00802
Std Dev 1.062
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

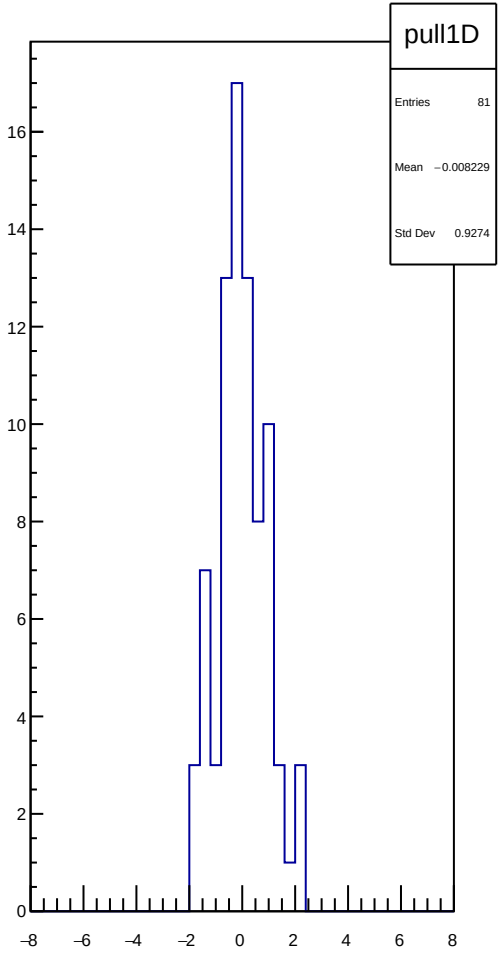

asym_sam1_rms vs run
χ² / ndf 4756 / 80
p0 388.1 ± 0.3112
440
420
400
380
360
340

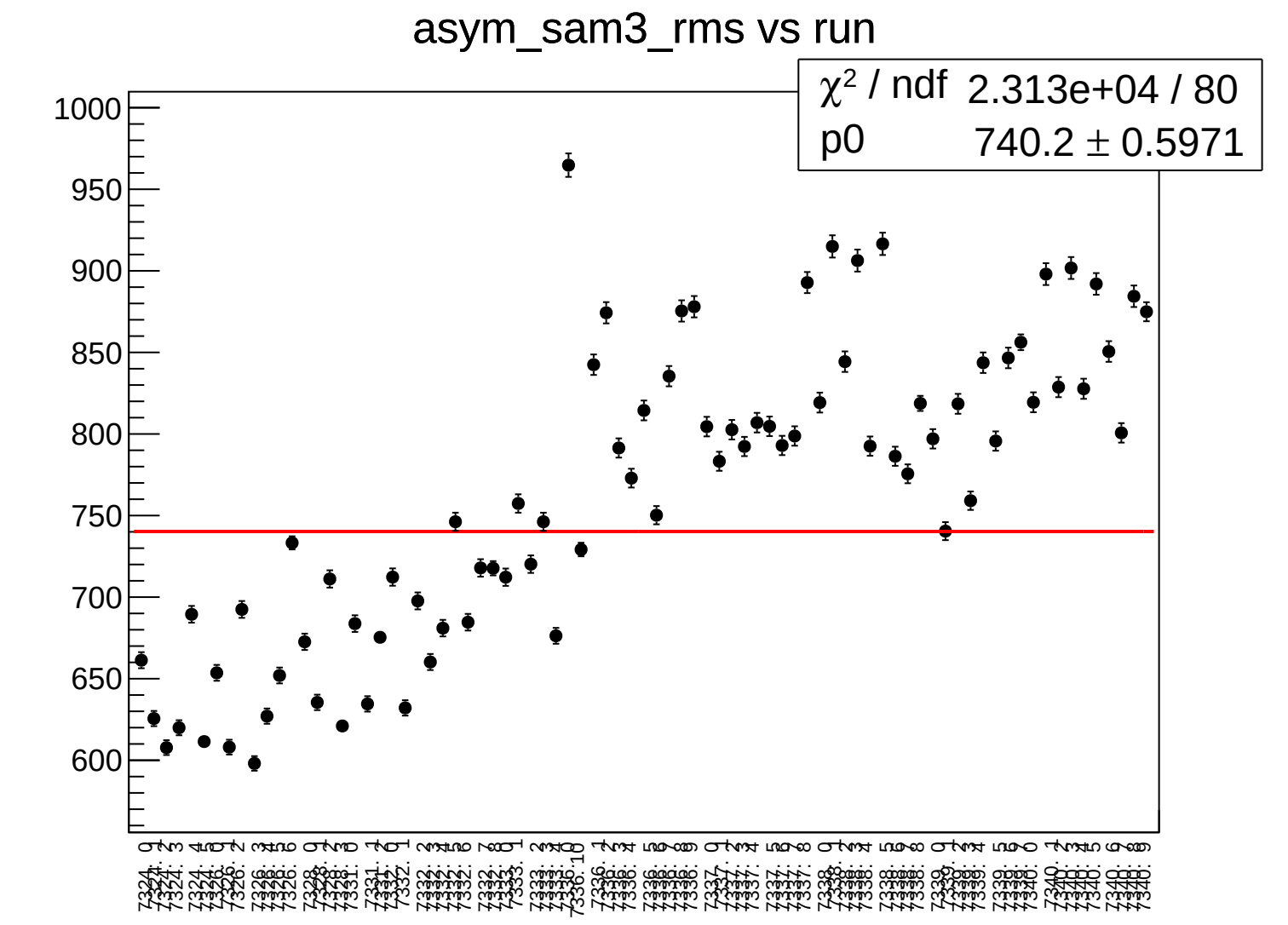

asym_sam2_mean vs run
χ² / ndf 89.41 / 80
p0 641.5 ± 2280
pull
Entries 81
Mean 78.69
Std Dev 120.2

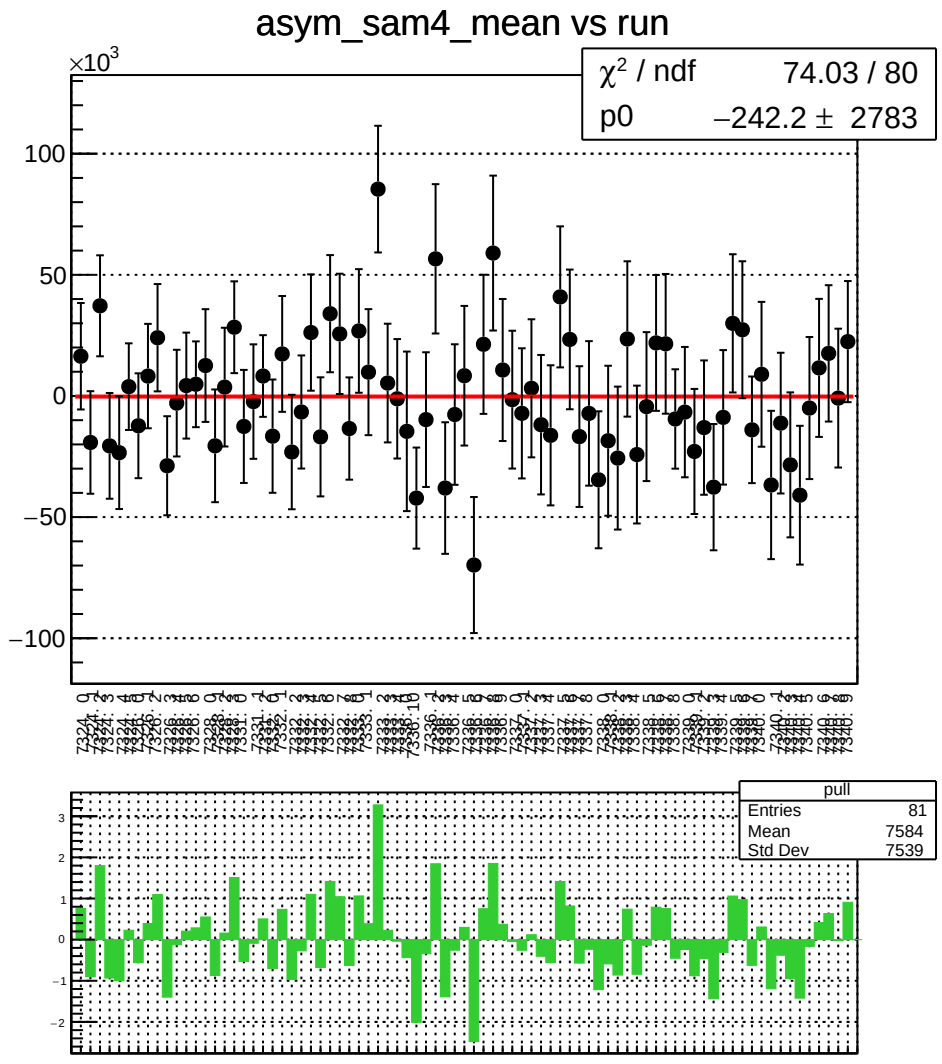

pull1D
Entries 81
Mean −0.004201
Std Dev 1.051

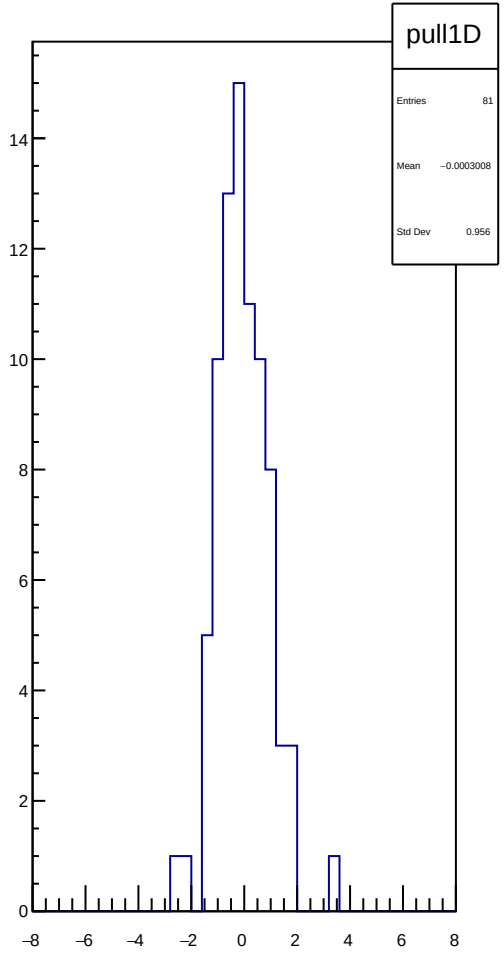

asym_sam2_rms vs run
χ² / ndf 4712 / 80
p0 2010 ± 1.612
2300
2200
2100
2000
1900
1800
1700

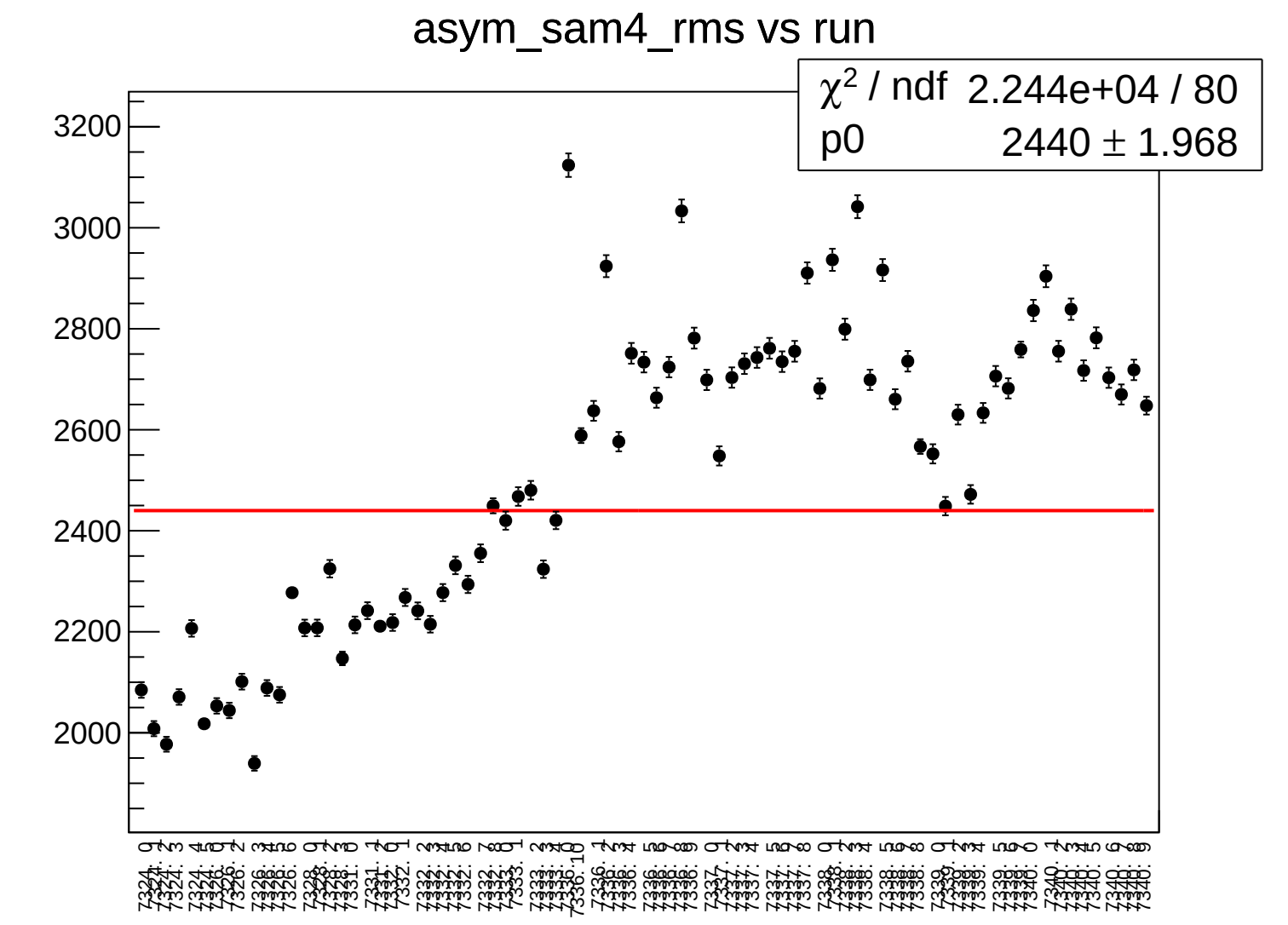

asym_sam3_mean vs run
χ^2 / ndf 69.68 / 80
p0 122.8 ± 844.5
pull
Entries 81
Mean 313.6
Std Dev 256.7

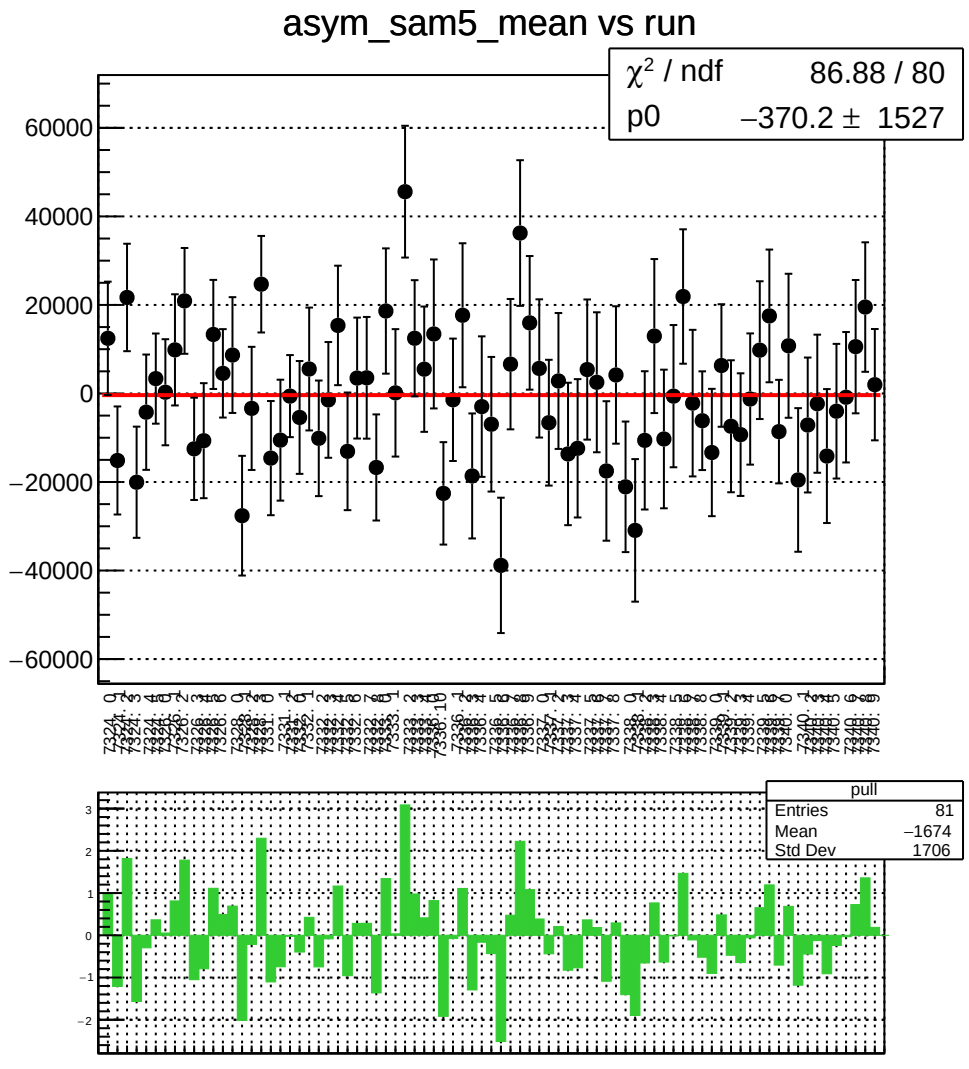

pull1D
Entries 81
Mean −0.008229
Std Dev 0.9274

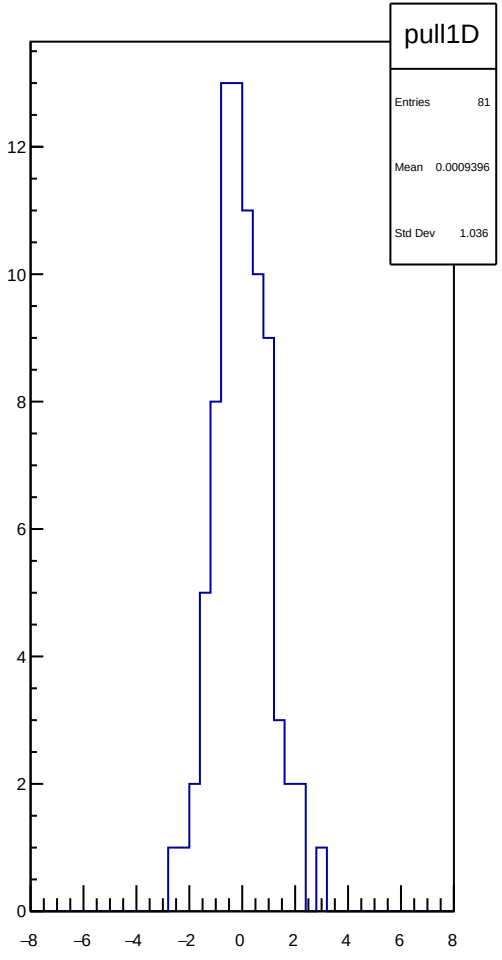

asym_sam3_rms vs run
χ² / ndf 2.313e+04 / 80
p0 740.2 ± 0.5971
1000
950
900
850
800
750
700
650
600

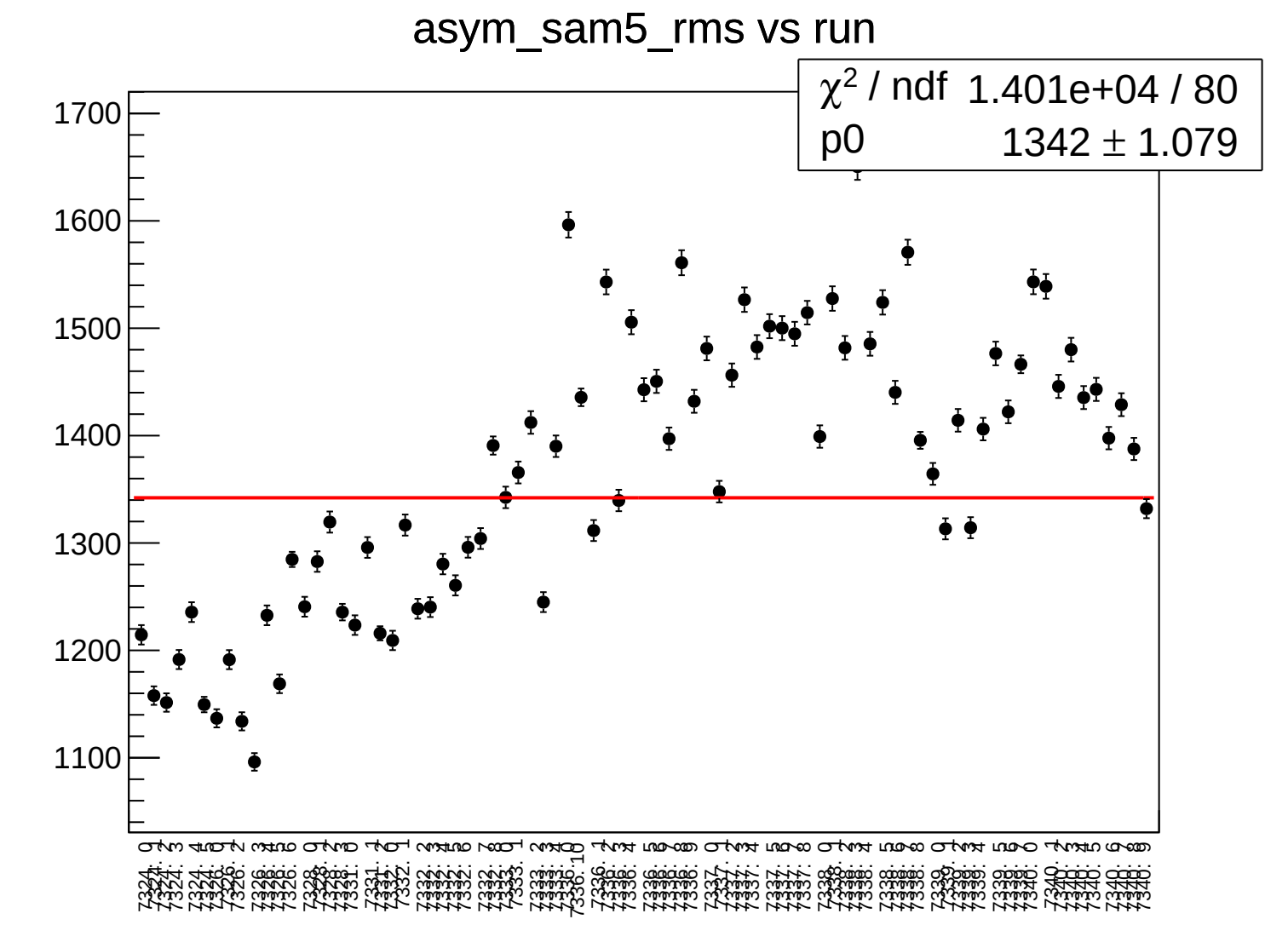

asym_sam4_mean vs run
χ^2 / ndf 74.03 / 80
p0 −242.2 ± 2783
×10^3
100
50
0
−50
−100
pull
Entries 81
Mean 7584
Std Dev 7539
3
2
1
0
−1
−2

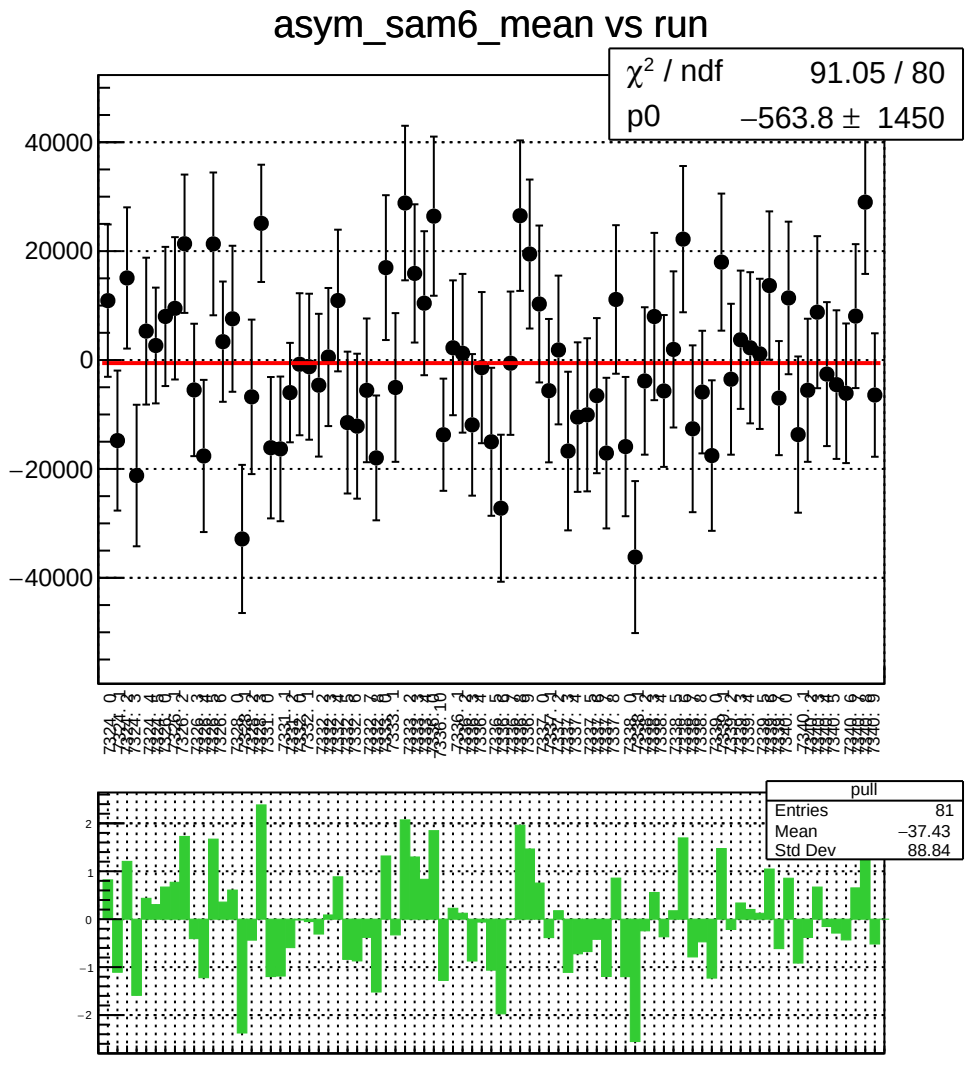

pull1D
Entries 81
Mean −0.0003008
Std Dev 0.956
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

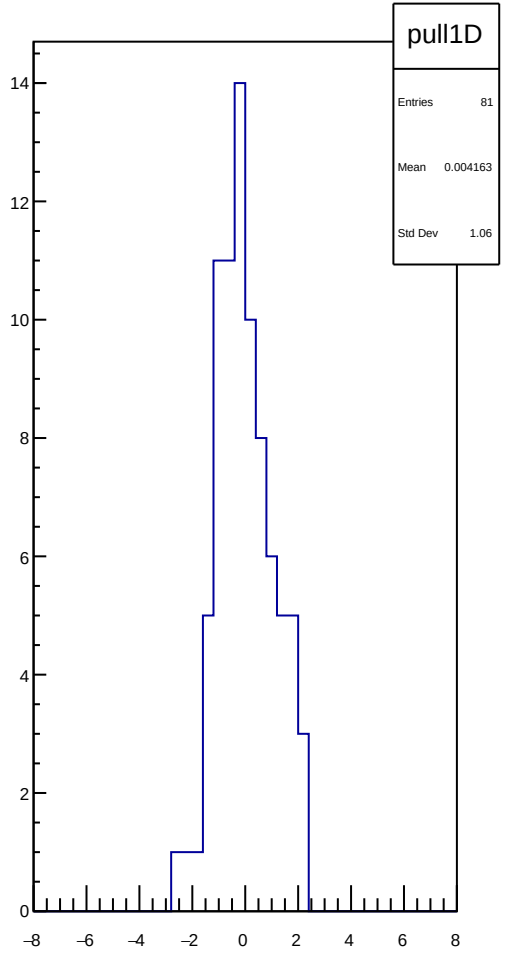

asym_sam4_rms vs run
χ² / ndf 2.244e+04 / 80
p0 2440 ± 1.968
3200
3000
2800
2600
2400
2200
2000

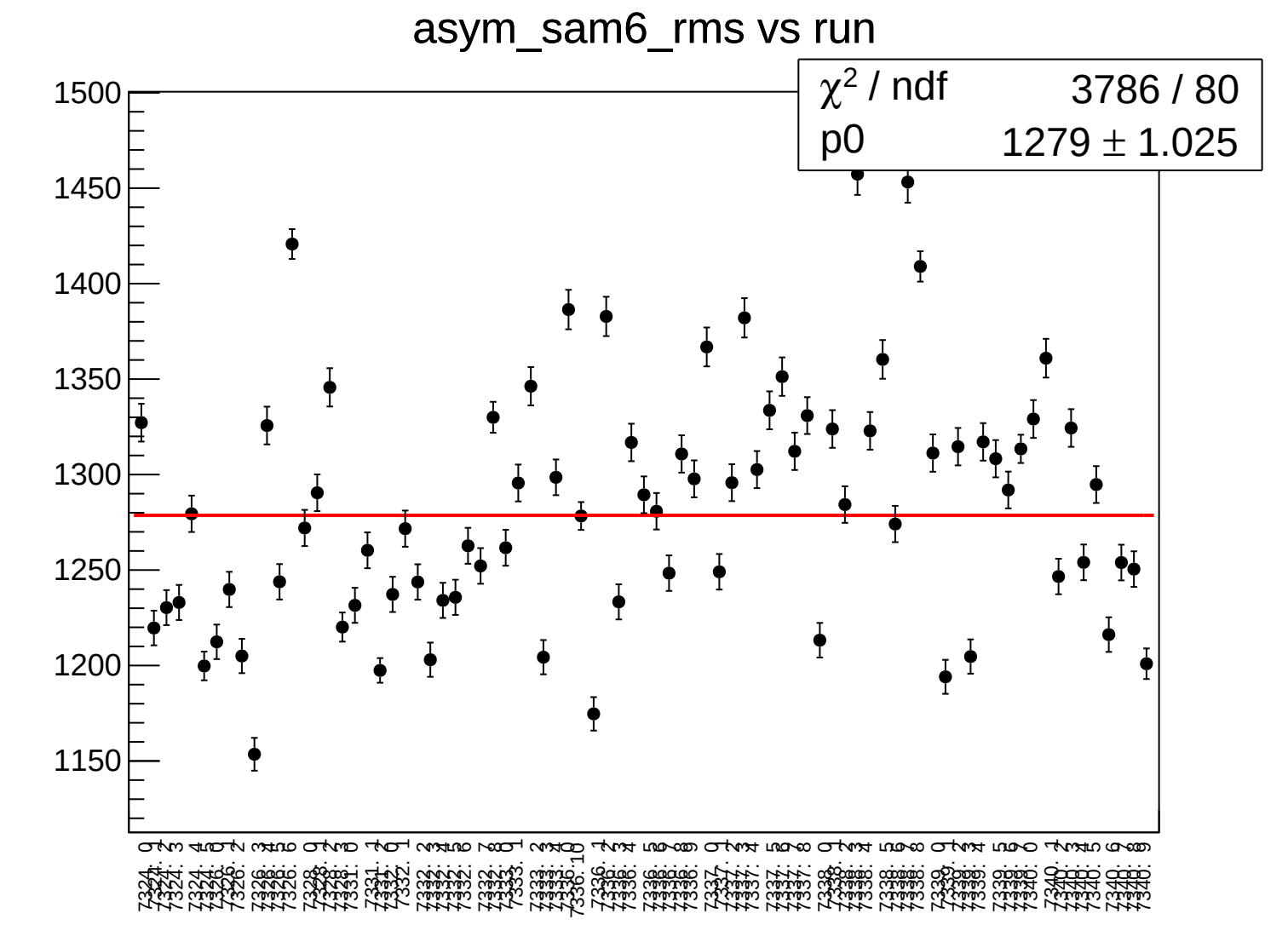

asym_sam5_mean vs run
χ² / ndf 86.88 / 80
p0 −370.2 ± 1527
pull
Entries 81
Mean −1674
Std Dev 1706

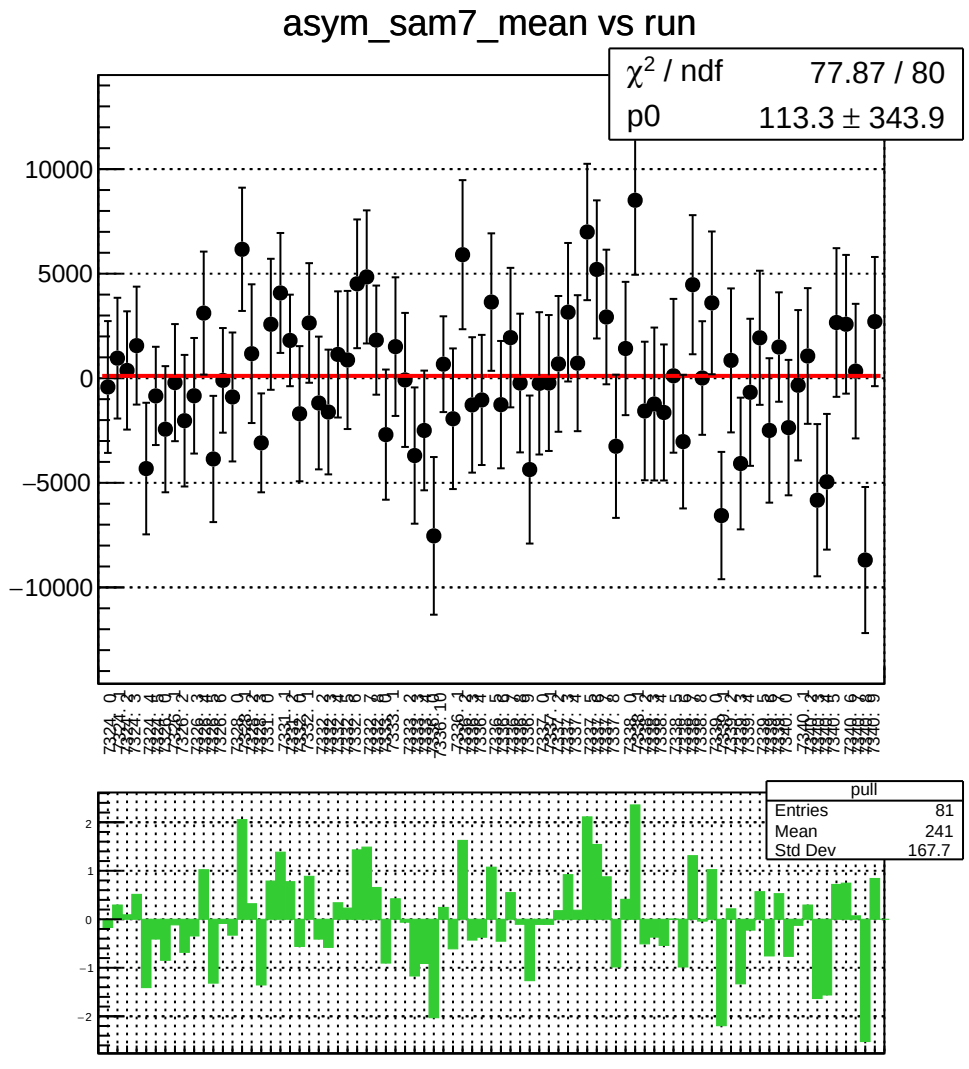

pull1D
Entries 81
Mean 0.0009396
Std Dev 1.036

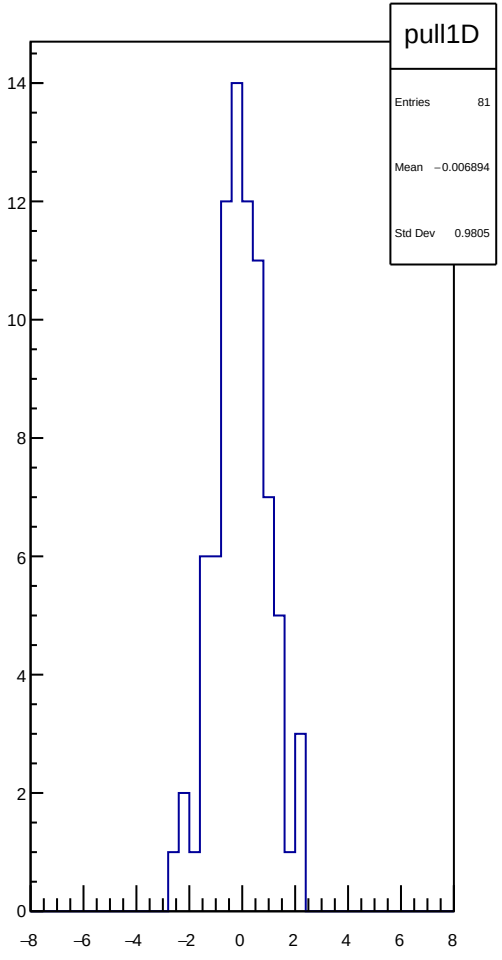

asym_sam5_rms vs run
χ^2 / ndf 1.401e+04 / 80
p0 1342 ± 1.079
1700
1600
1500
1400
1300
1200
1100

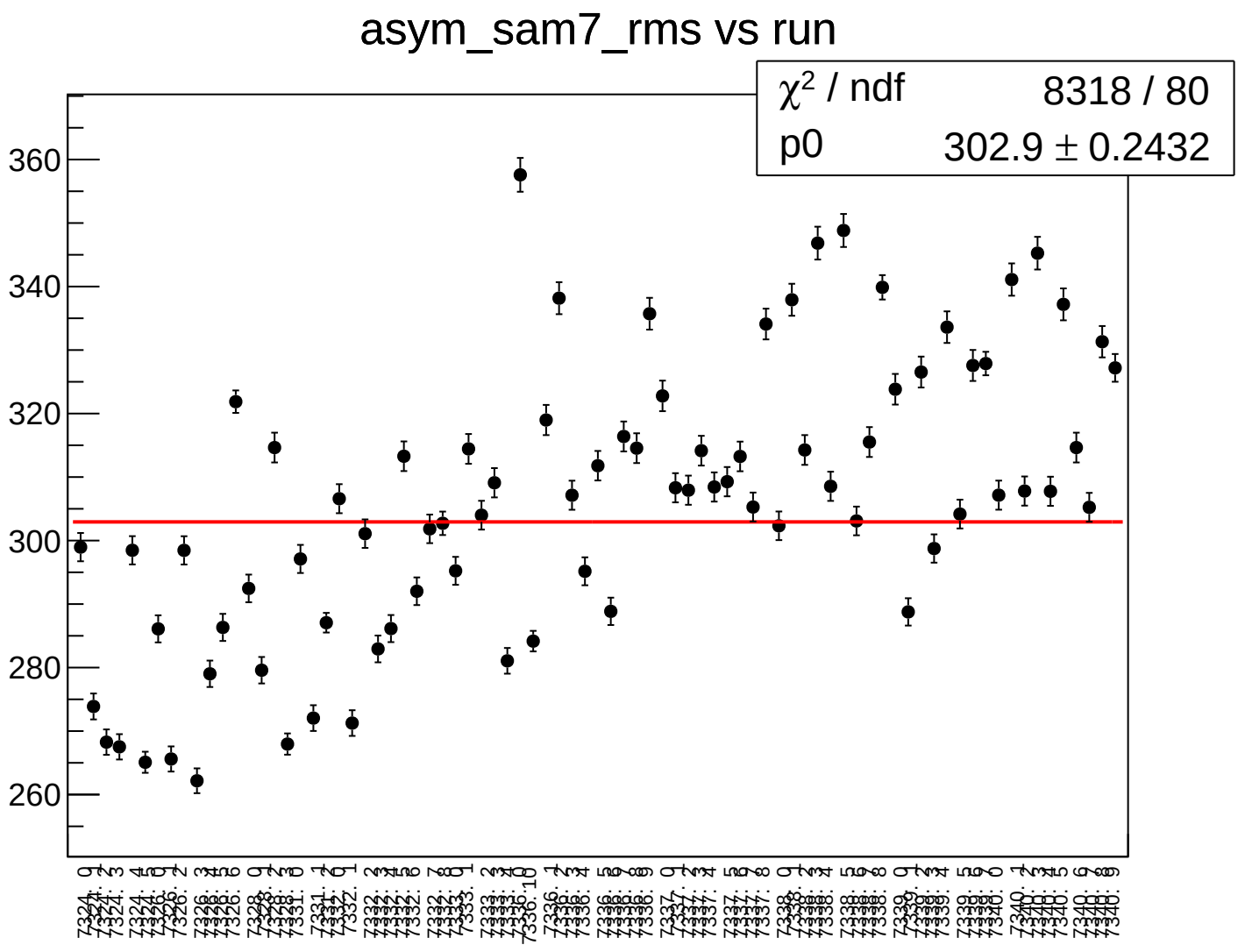

asym_sam6_mean vs run
χ² / ndf 91.05 / 80
p0 −563.8 ± 1450
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −37.43
Std Dev 88.84
2
1
0
−1
−2

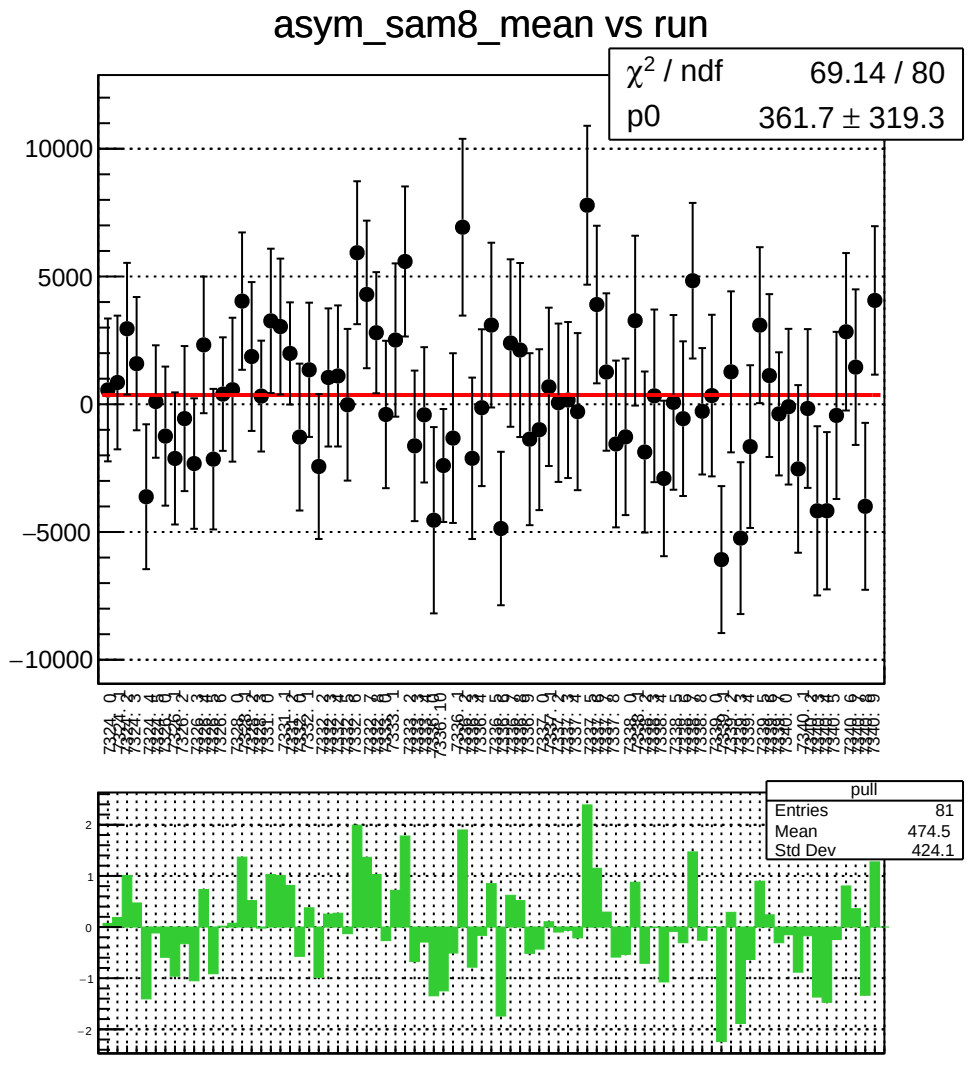

pull1D
Entries 81
Mean 0.004163
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

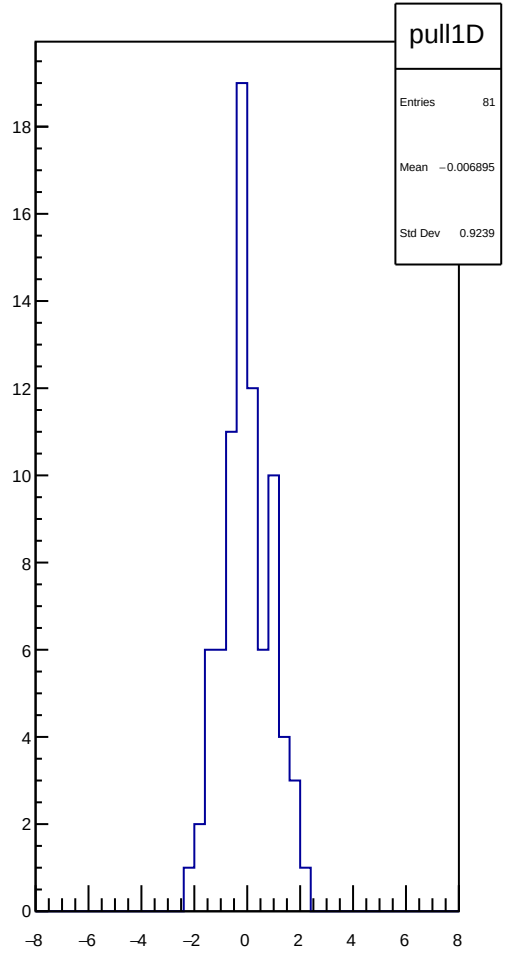

asym_sam6_rms vs run
χ² / ndf 3786 / 80
p0 1279 ± 1.025
1500
1450
1400
1350
1300
1250
1200
1150

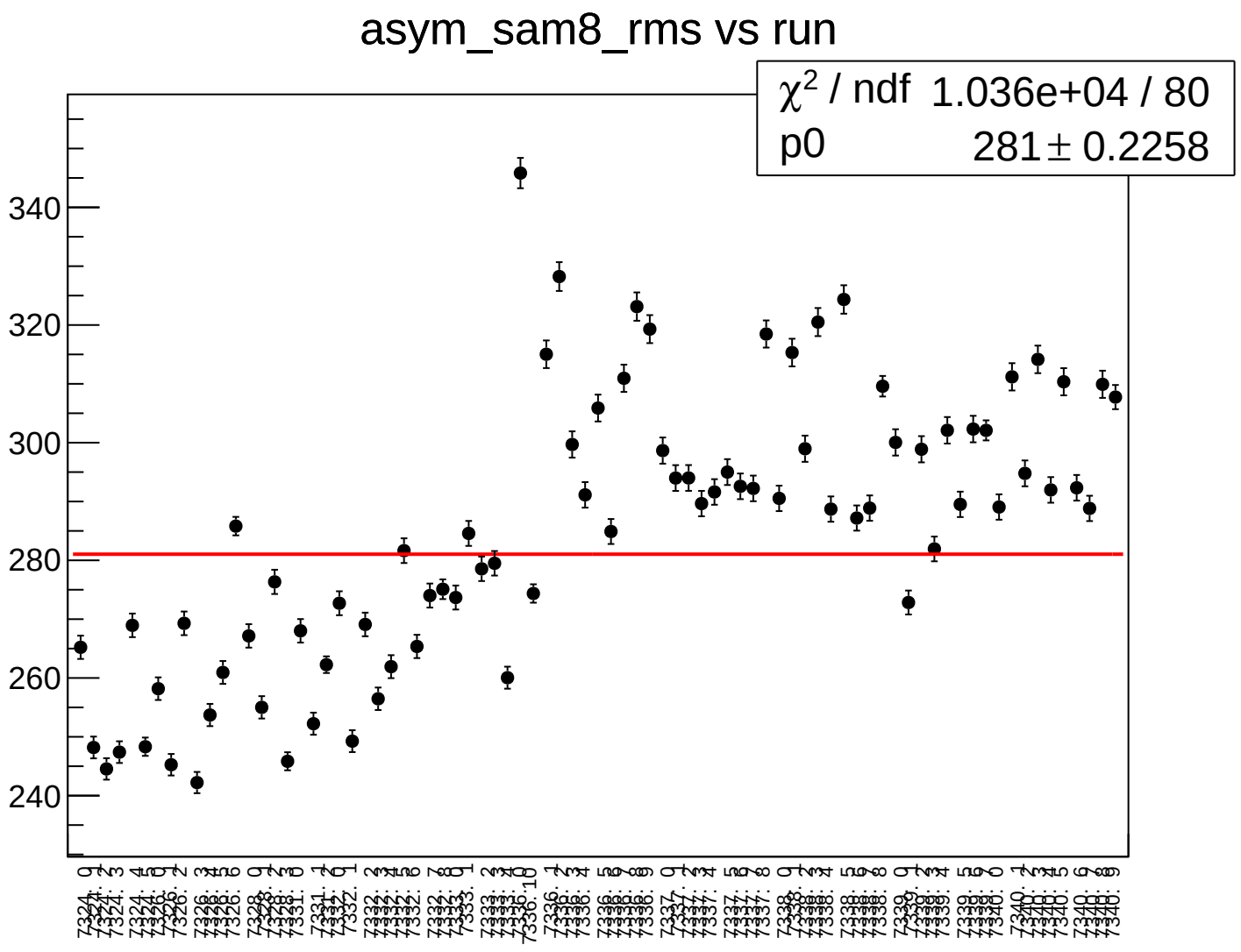

asym_sam7_mean vs run
χ² / ndf 77.87 / 80
p0 113.3 ± 343.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 241
Std Dev 167.7
2
1
0
−1
−2

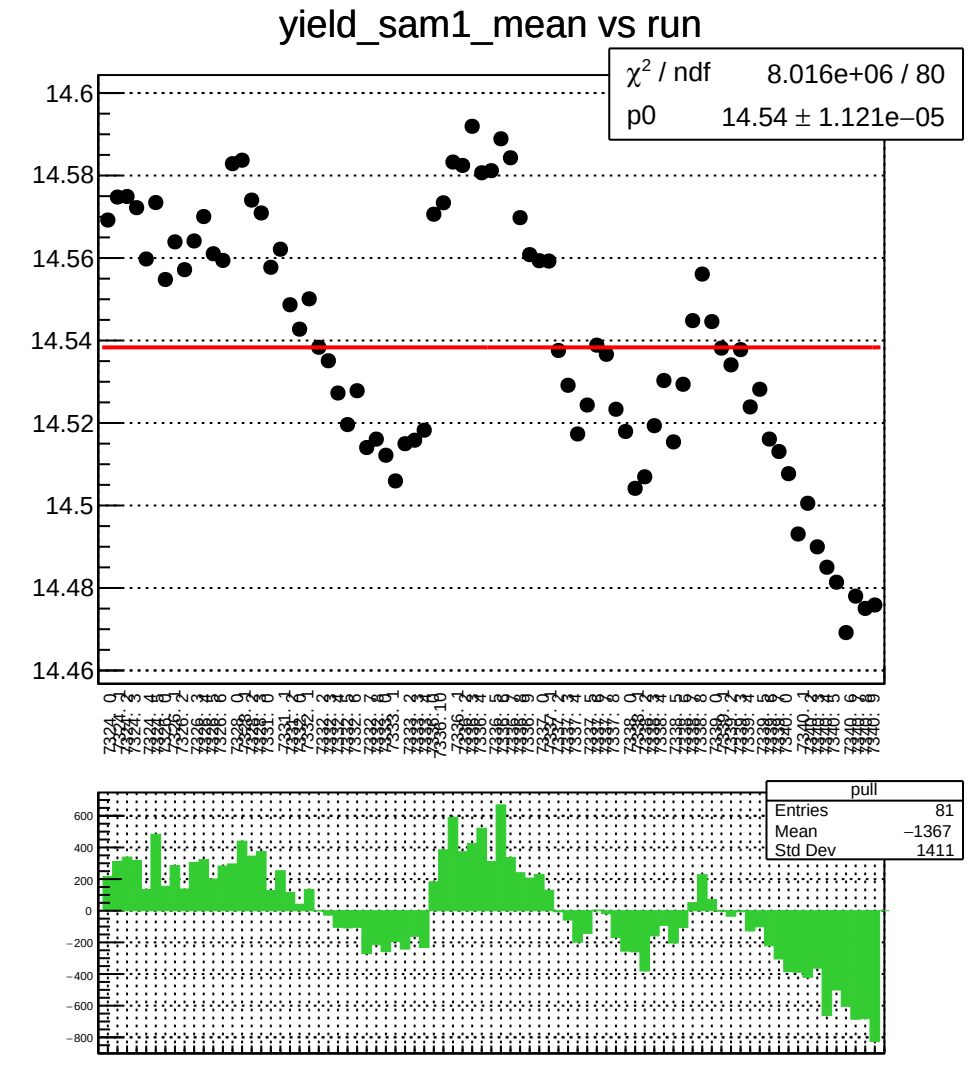

pull1D
Entries 81
Mean −0.006894
Std Dev 0.9805
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

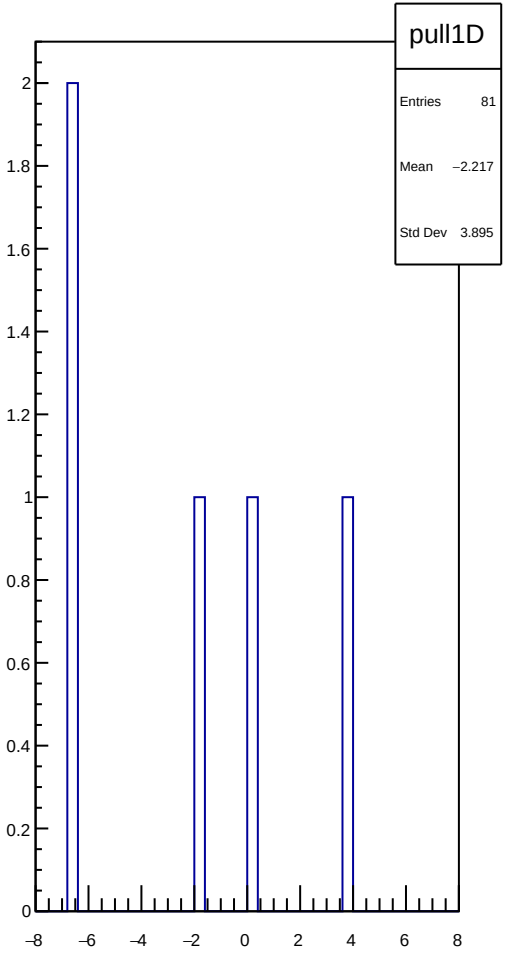

asym_sam7_rms vs run
χ^2 / ndf 8318 / 80
p0 302.9 ± 0.2432
360
340
320
300
280
260

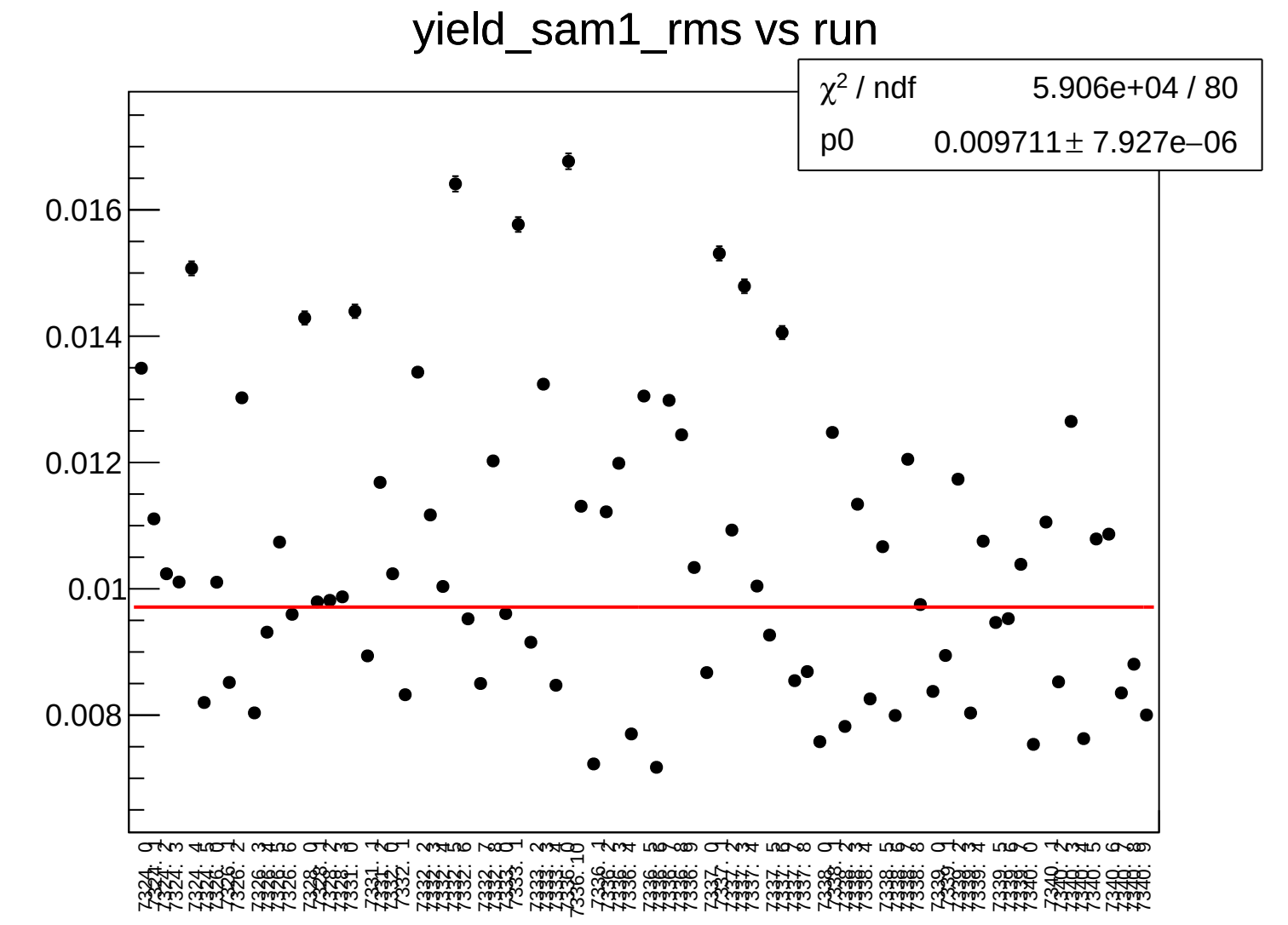

asym_sam8_mean vs run
χ^2 / ndf 69.14 / 80
p0 361.7 ± 319.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 474.5
Std Dev 424.1
2
1
0
−1
−2

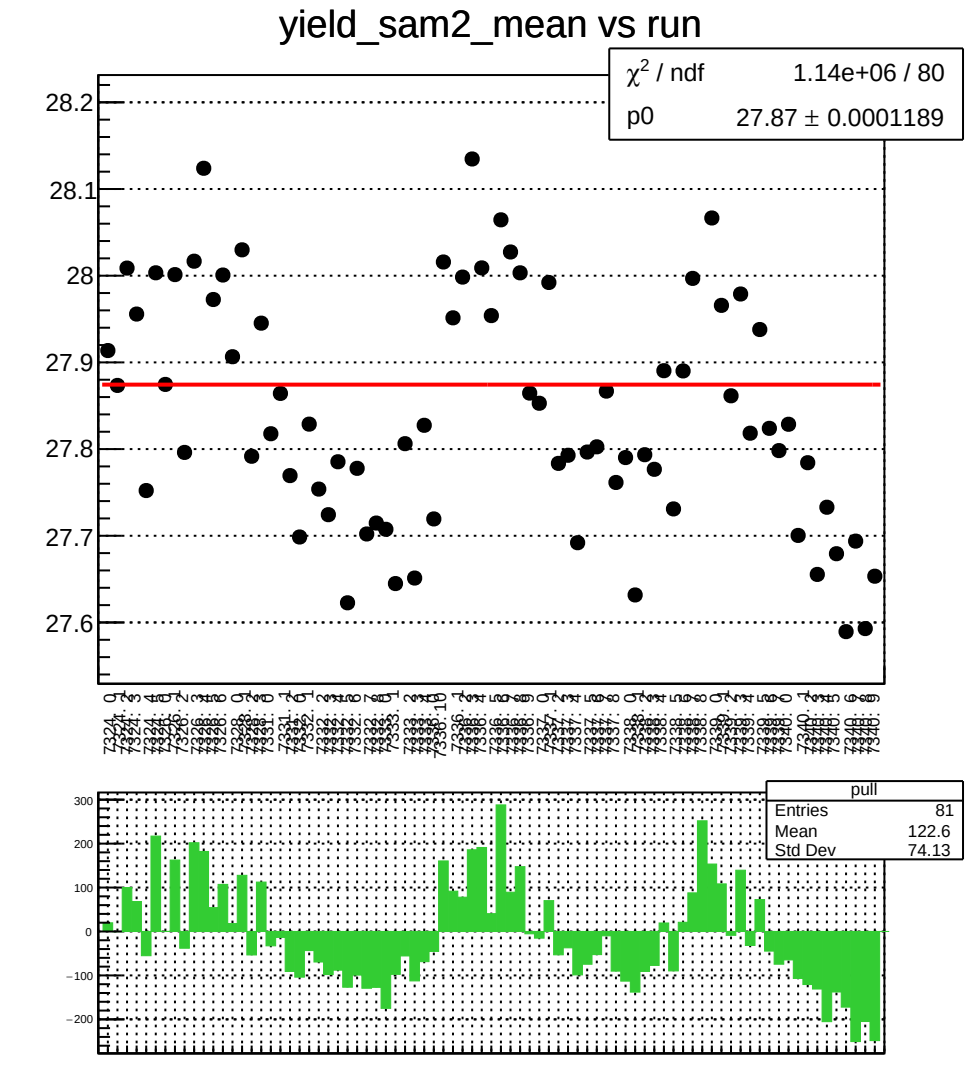

pull1D
Entries 81
Mean −0.006895
Std Dev 0.9239
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

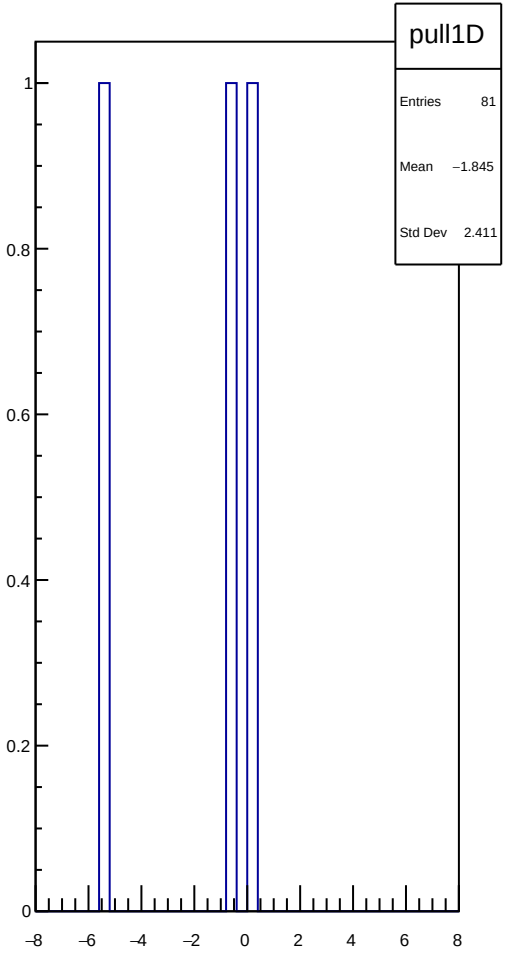

asym_sam8_rms vs run
χ^2 / ndf 1.036e+04 / 80
p0 281 ± 0.2258
340
320
300
280
260
240

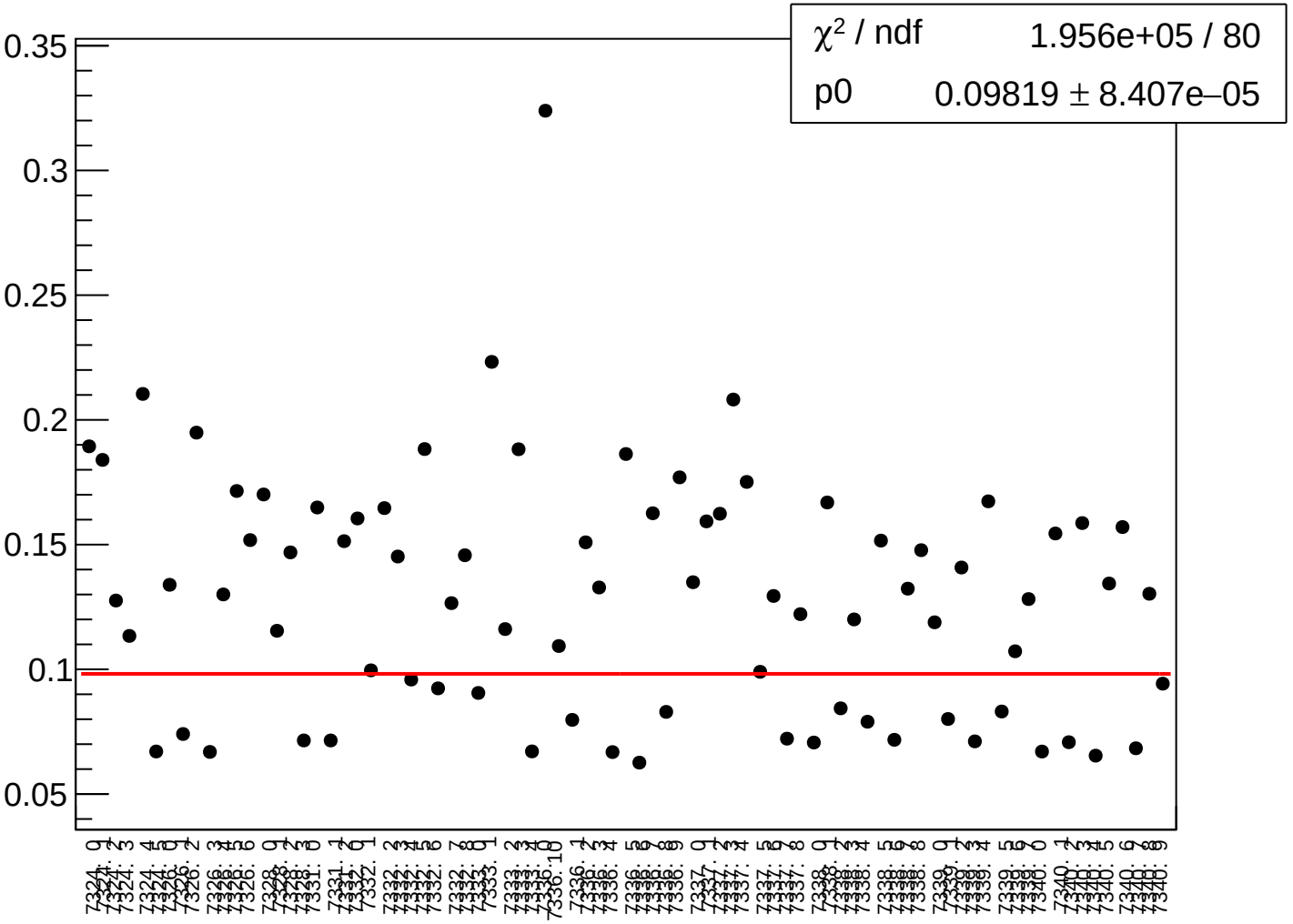

yield_sam1_mean vs run
χ² / ndf 8.016e+06 / 80
p0 14.54 ± 1.121e−05
14.6
14.58
14.56
14.54
14.52
14.5
14.48
14.46
pull
Entries 81
Mean −1367
Std Dev 1411
600
400
200
0
−200
−400
−600
−800

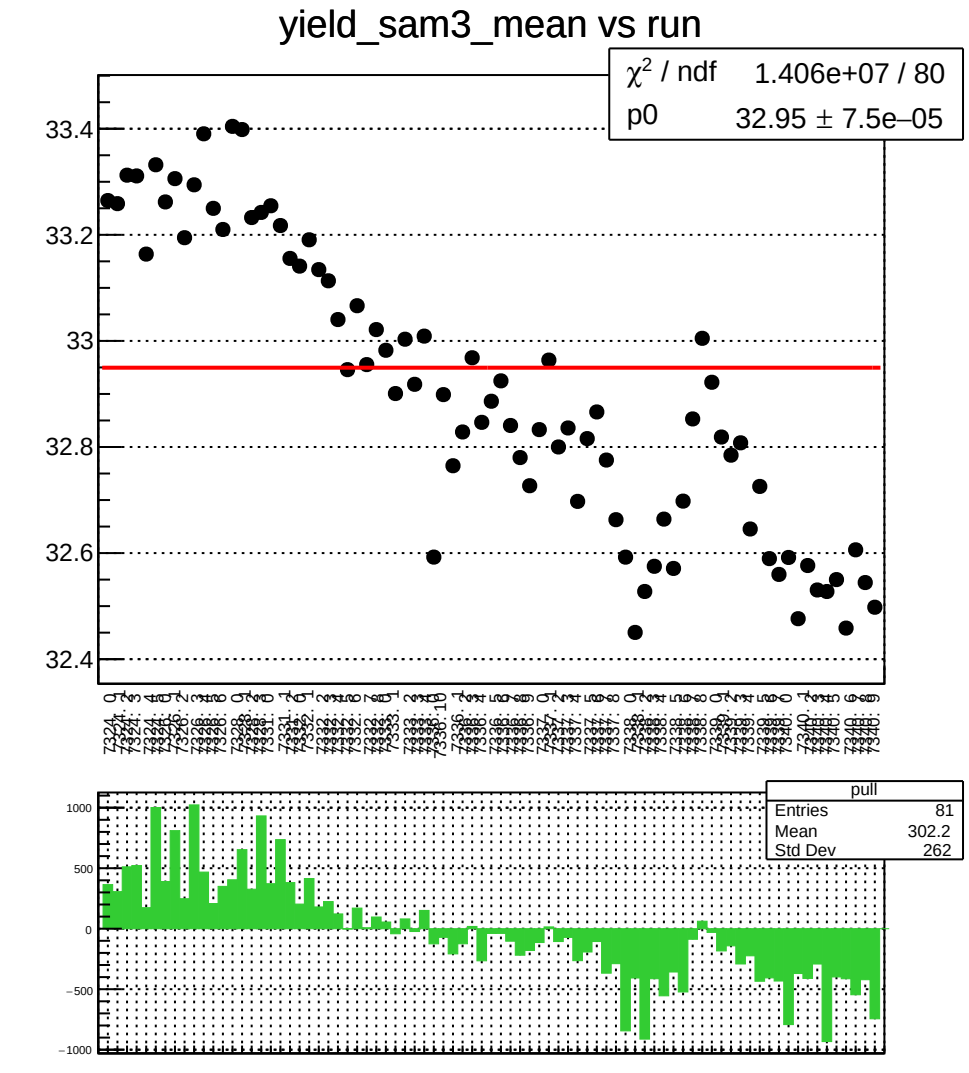

pull1D
Entries 81
Mean −2.217
Std Dev 3.895
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

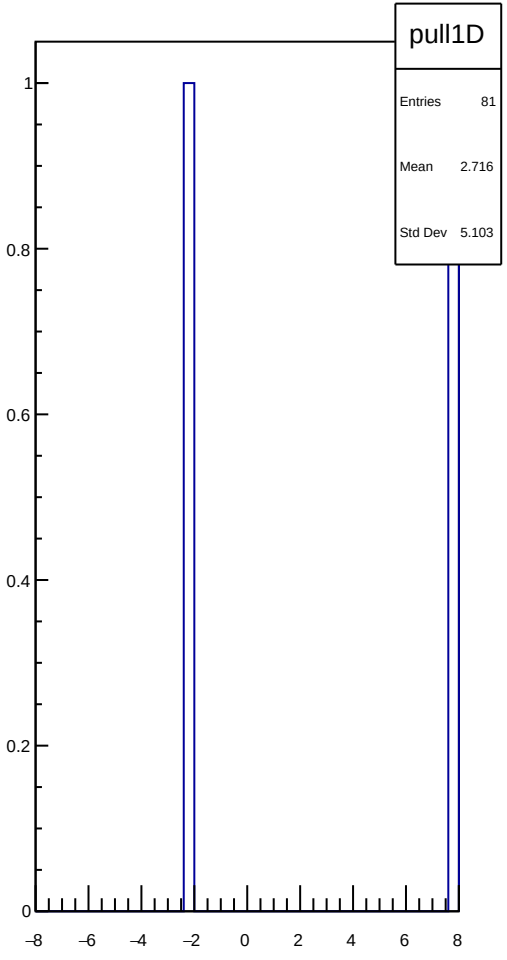

yield_sam1_rms vs run
χ^2 / ndf 5.906e+04 / 80
p0 0.009711 ± 7.927e−06
0.016
0.014
0.012
0.01
0.008

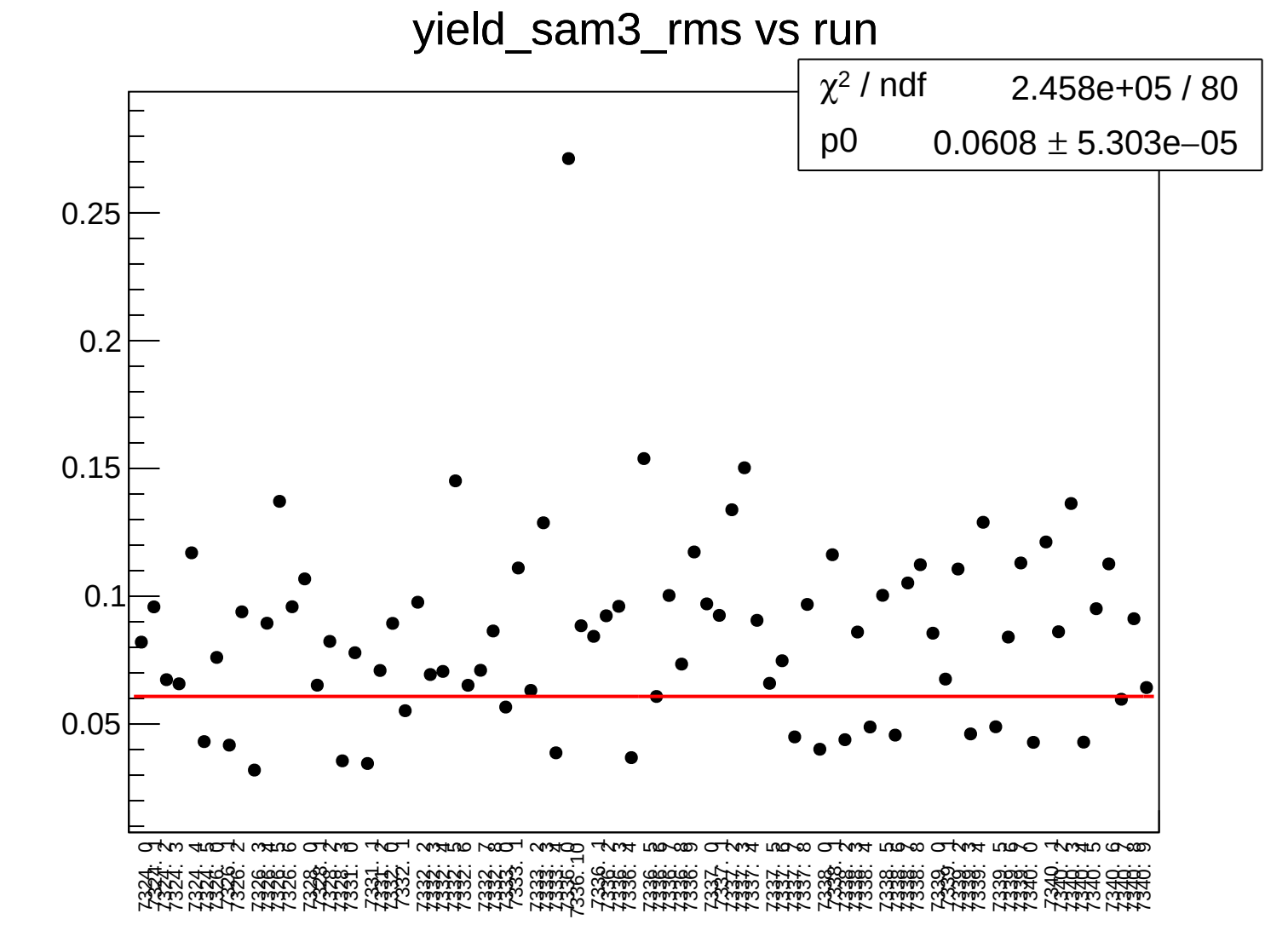

yield_sam2_mean vs run
χ² / ndf 1.14e+06 / 80
p0 27.87 ± 0.0001189
28.2
28.1
28
27.9
27.8
27.7
27.6
pull
Entries 81
Mean 122.6
Std Dev 74.13
300
200
100
0
−100
−200

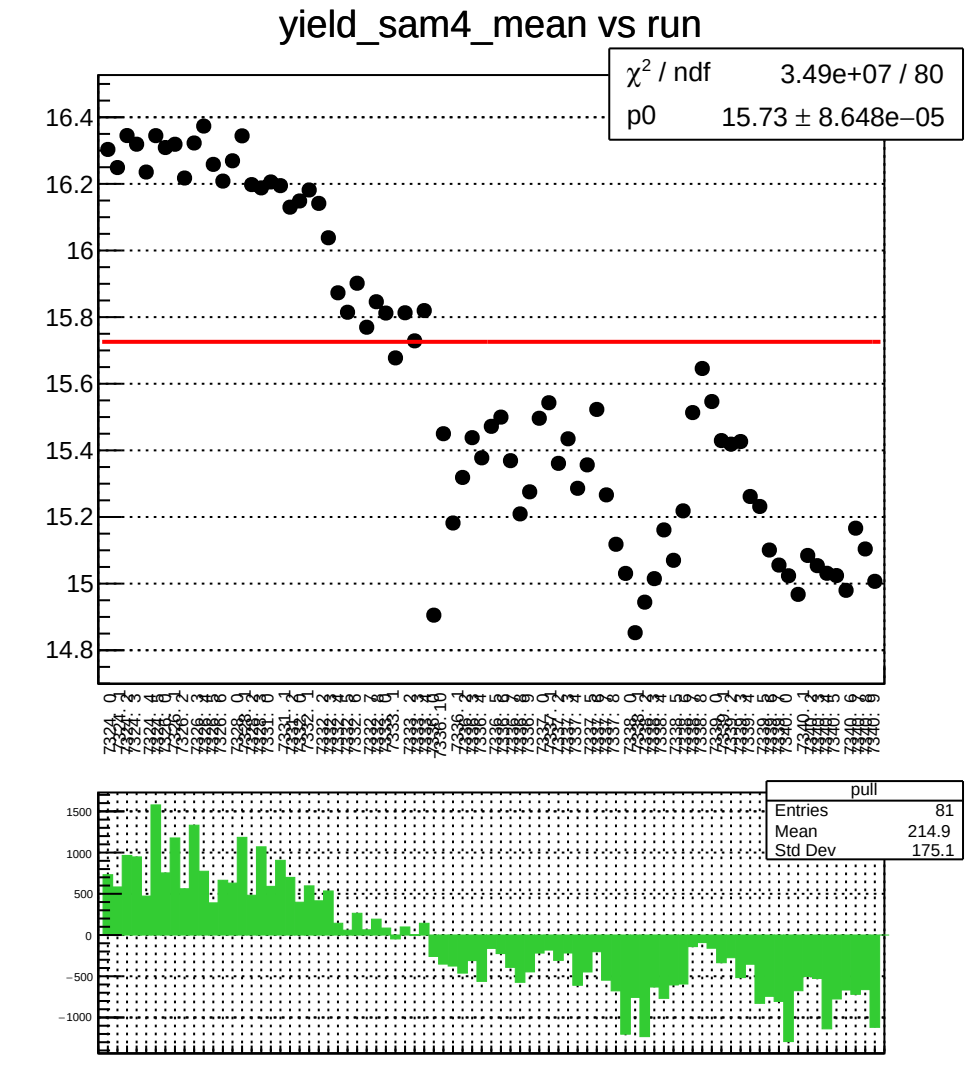

pull1D
Entries 81
Mean −1.845
Std Dev 2.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

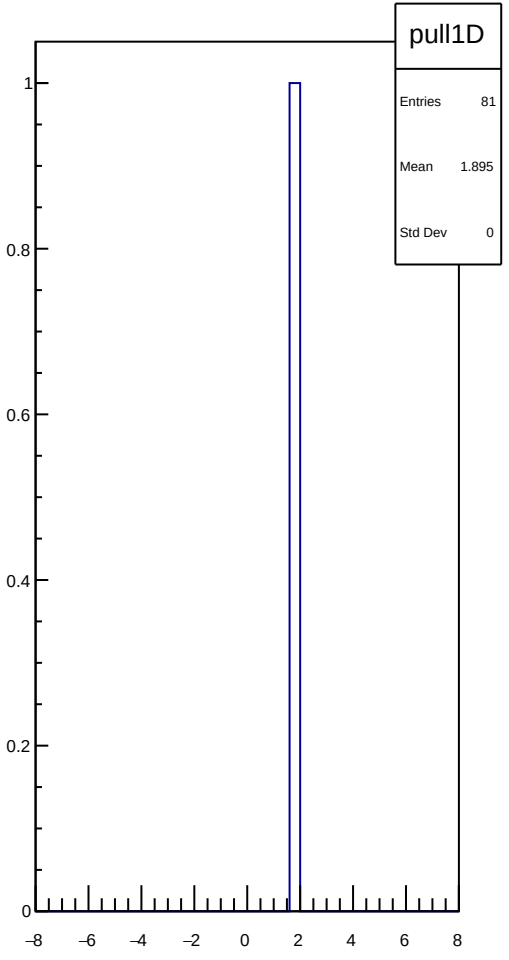

yield_sam2_rms vs run
χ² / ndf 1.956e+05 / 80
p0 0.09819 ± 8.407e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

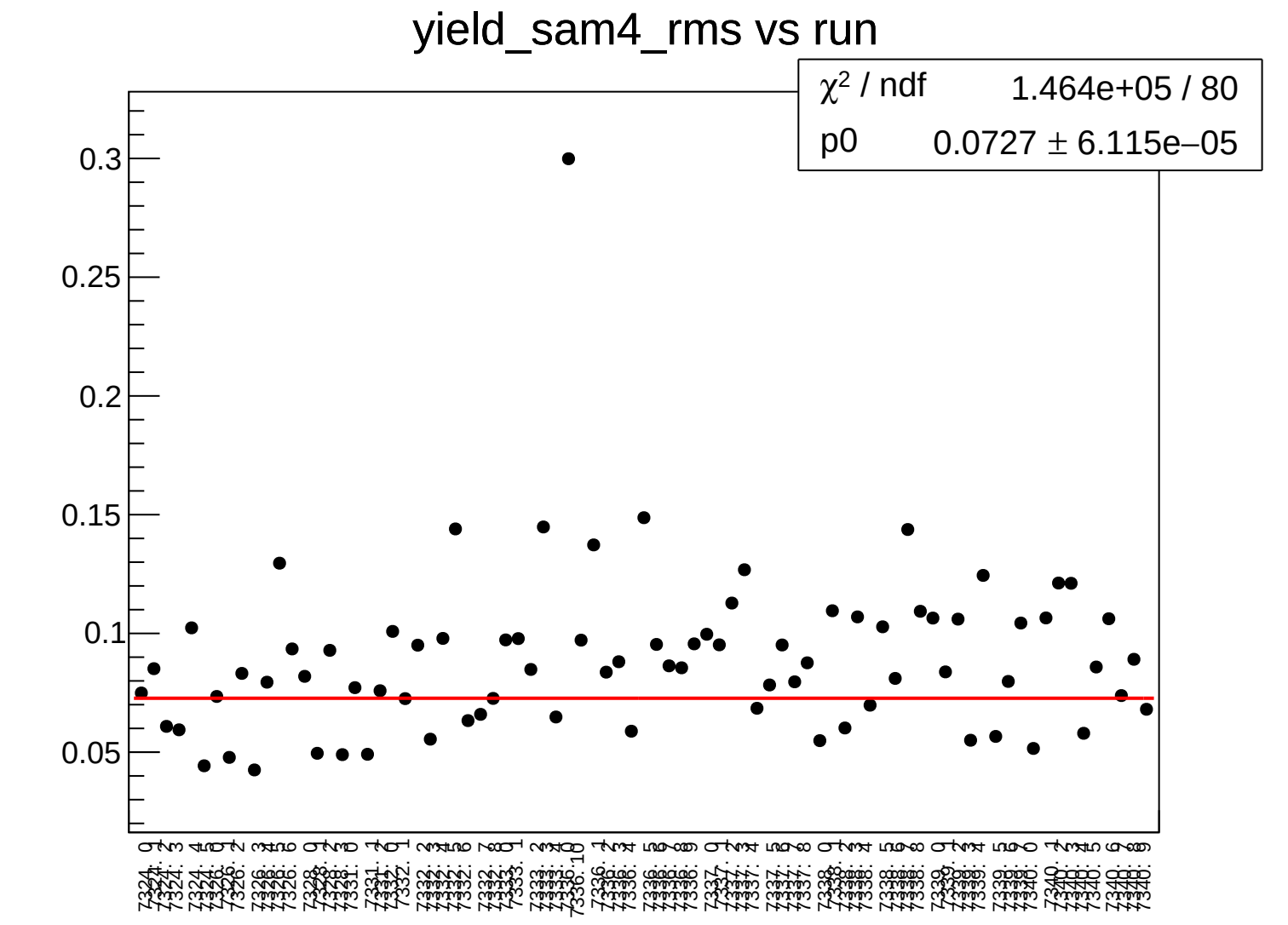

yield_sam3_mean vs run
χ² / ndf 1.406e+07 / 80
p0 32.95 ± 7.5e−05
33.4
33.2
33
32.8
32.6
32.4
pull
Entries 81
Mean 302.2
Std Dev 262
1000
500
0
−500
−1000

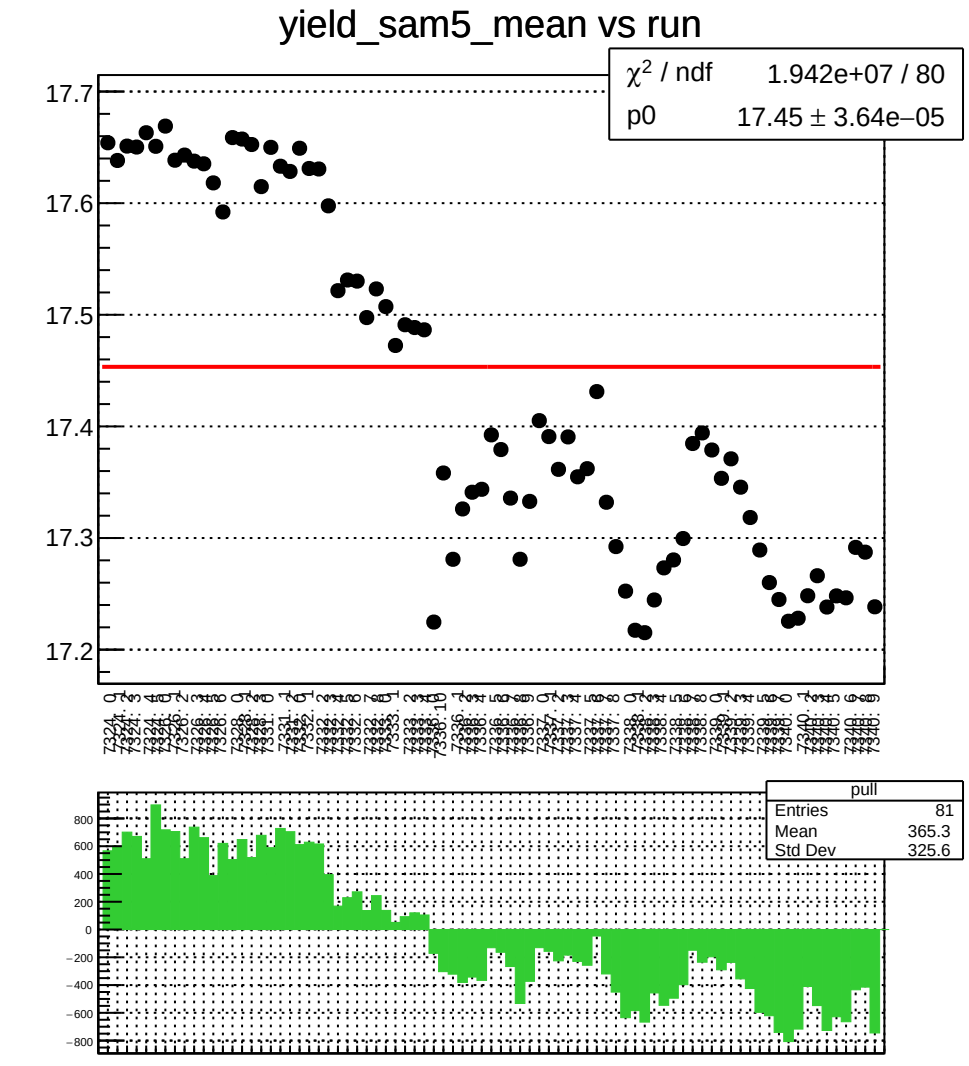

pull1D
Entries 81
Mean 2.716
Std Dev 5.103
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

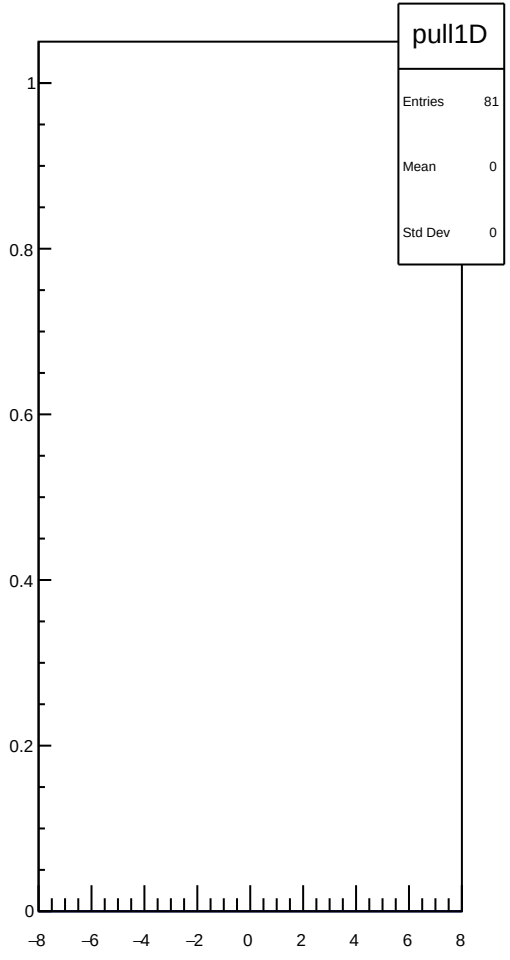

yield_sam3_rms vs run
χ² / ndf 2.458e+05 / 80
p0 0.0608 ± 5.303e−05
0.25
0.2
0.15
0.1
0.05

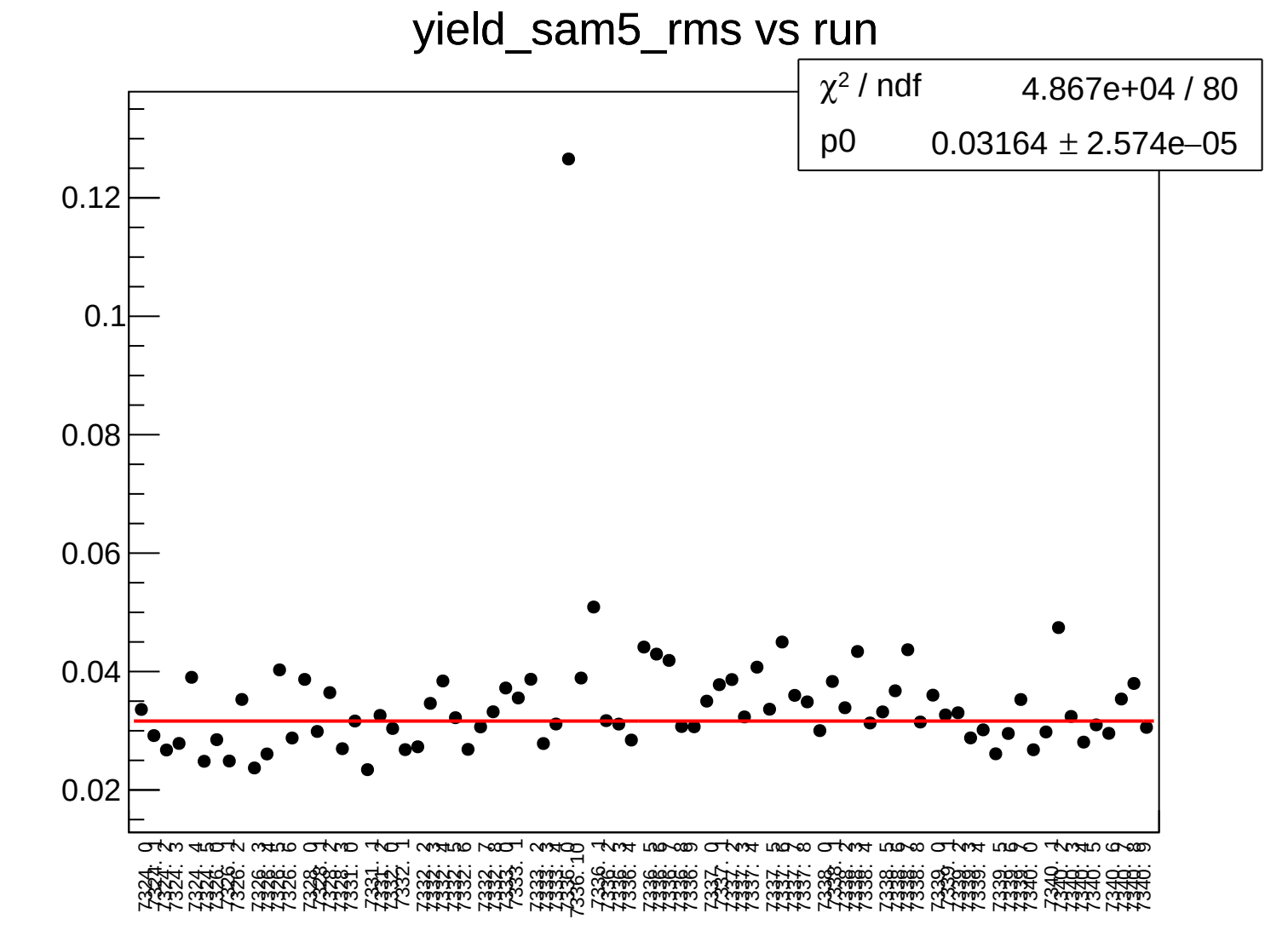

yield_sam4_mean vs run
χ² / ndf 3.49e+07 / 80
p0 15.73 ± 8.648e−05
16.4
16.2
16
15.8
15.6
15.4
15.2
15
14.8
pull
Entries 81
Mean 214.9
Std Dev 175.1
1500
1000
500
0
−500
−1000

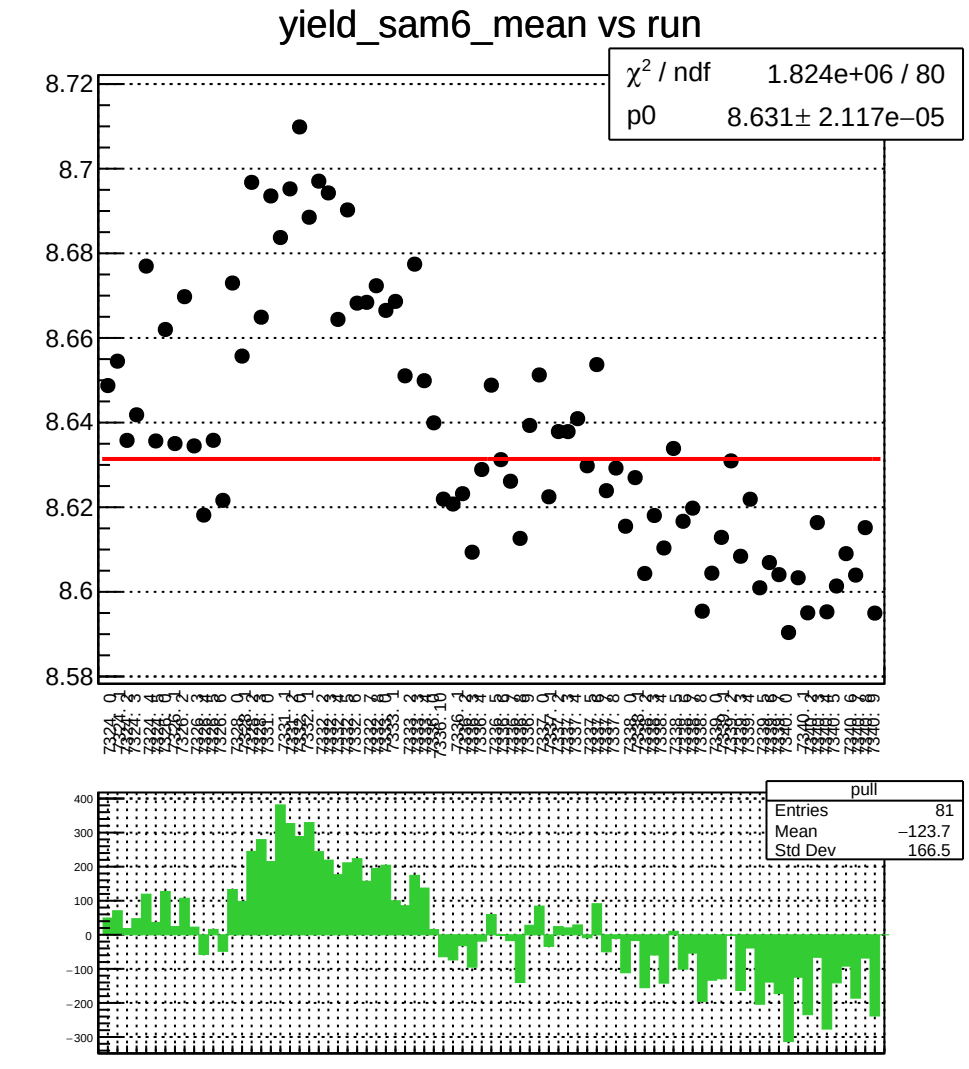

pull1D
Entries 81
Mean 1.895
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

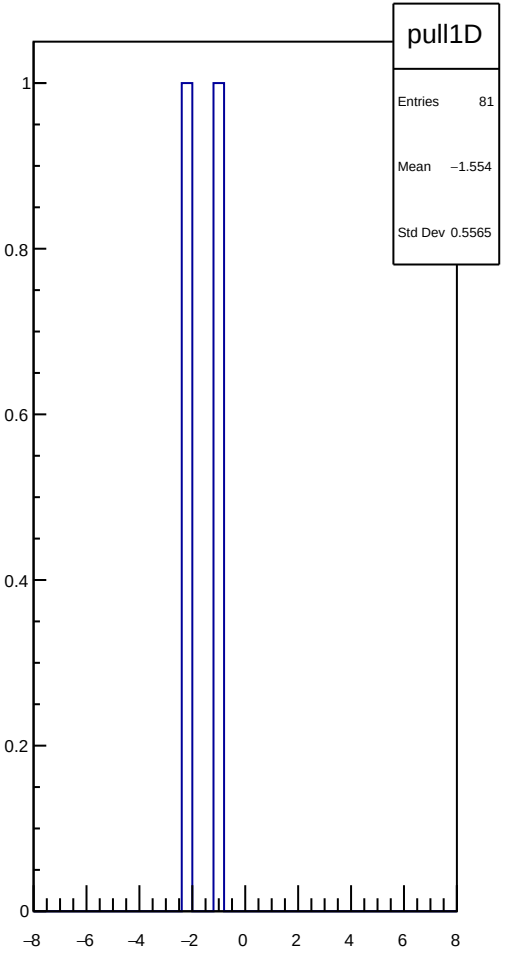

yield_sam4_rms vs run
χ² / ndf 1.464e+05 / 80
p0 0.0727 ± 6.115e−05
0.3
0.25
0.2
0.15
0.1
0.05

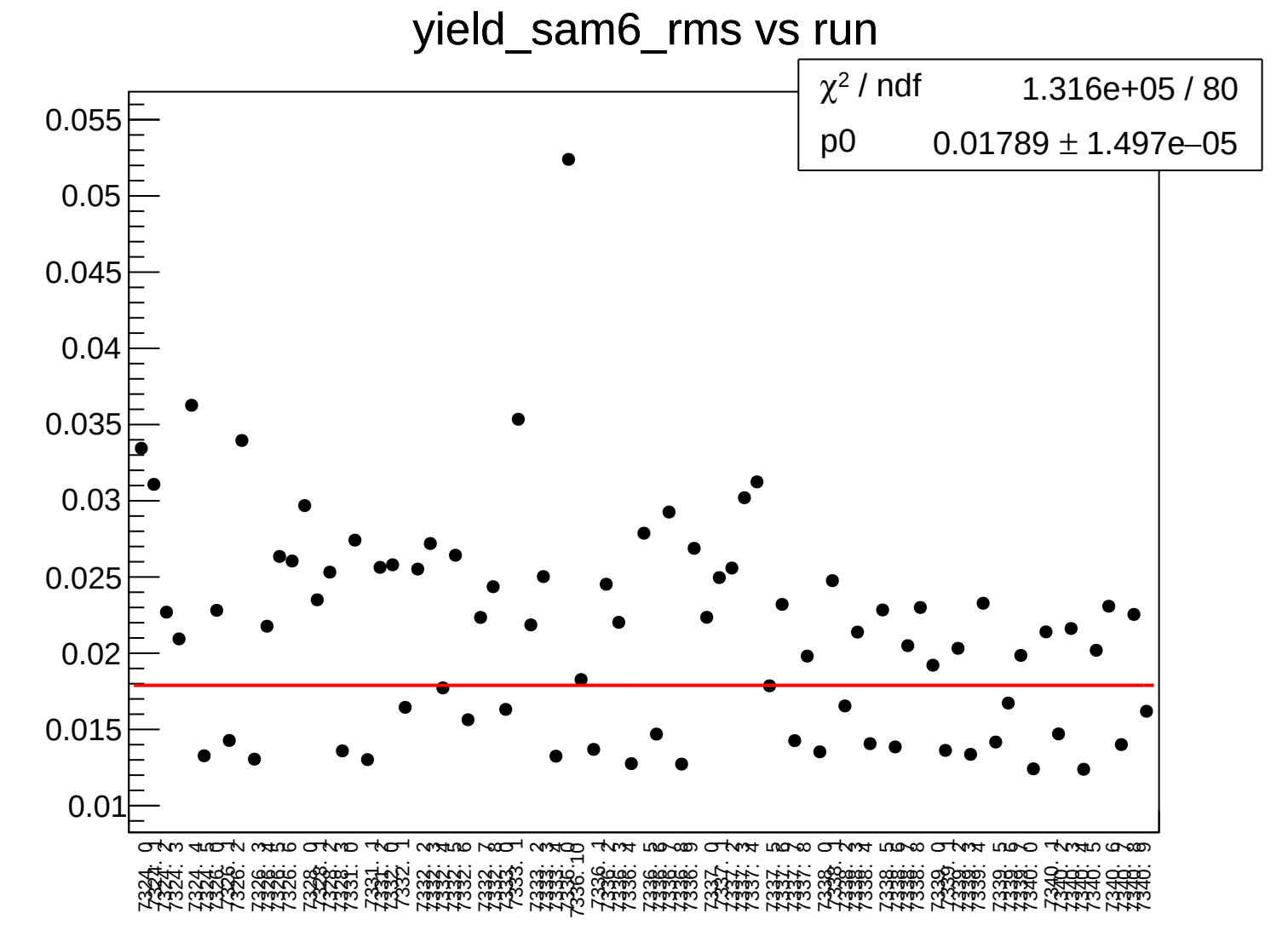

yield_sam5_mean vs run
χ² / ndf 1.942e+07 / 80
p0 17.45 ± 3.64e−05
17.7
17.6
17.5
17.4
17.3
17.2
pull
Entries 81
Mean 365.3
Std Dev 325.6
800
600
400
200
0
−200
−400
−600
−800

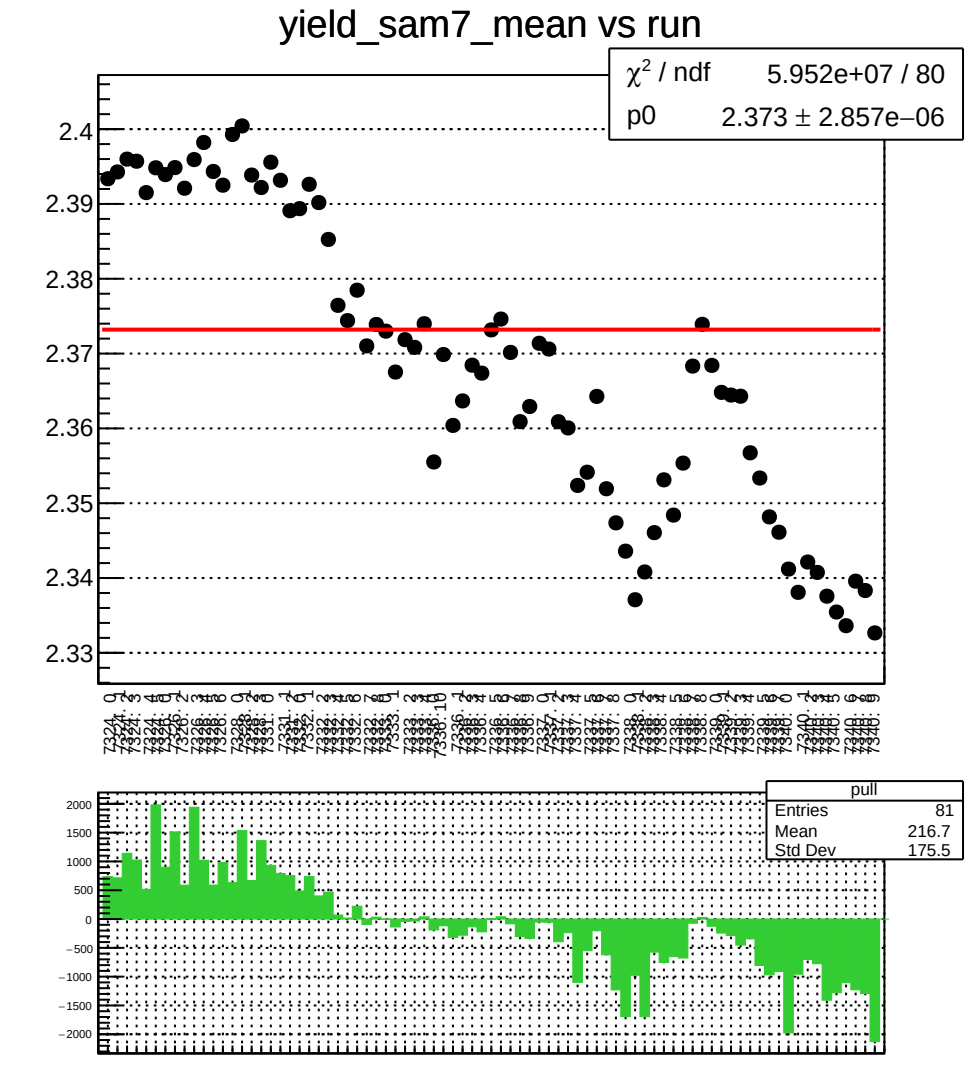

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

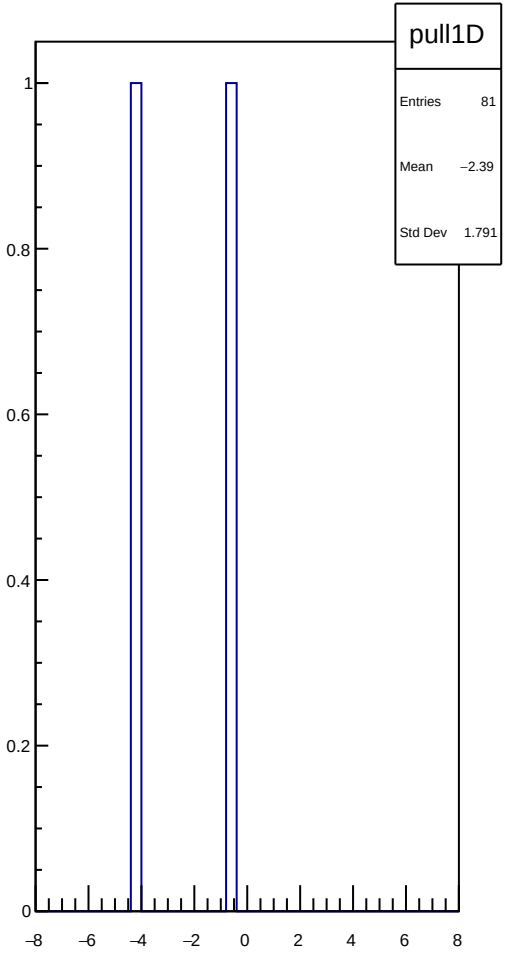

yield_sam5_rms vs run
χ² / ndf 4.867e+04 / 80
p0 0.03164 ± 2.574e–05
0.12
0.1
0.08
0.06
0.04
0.02

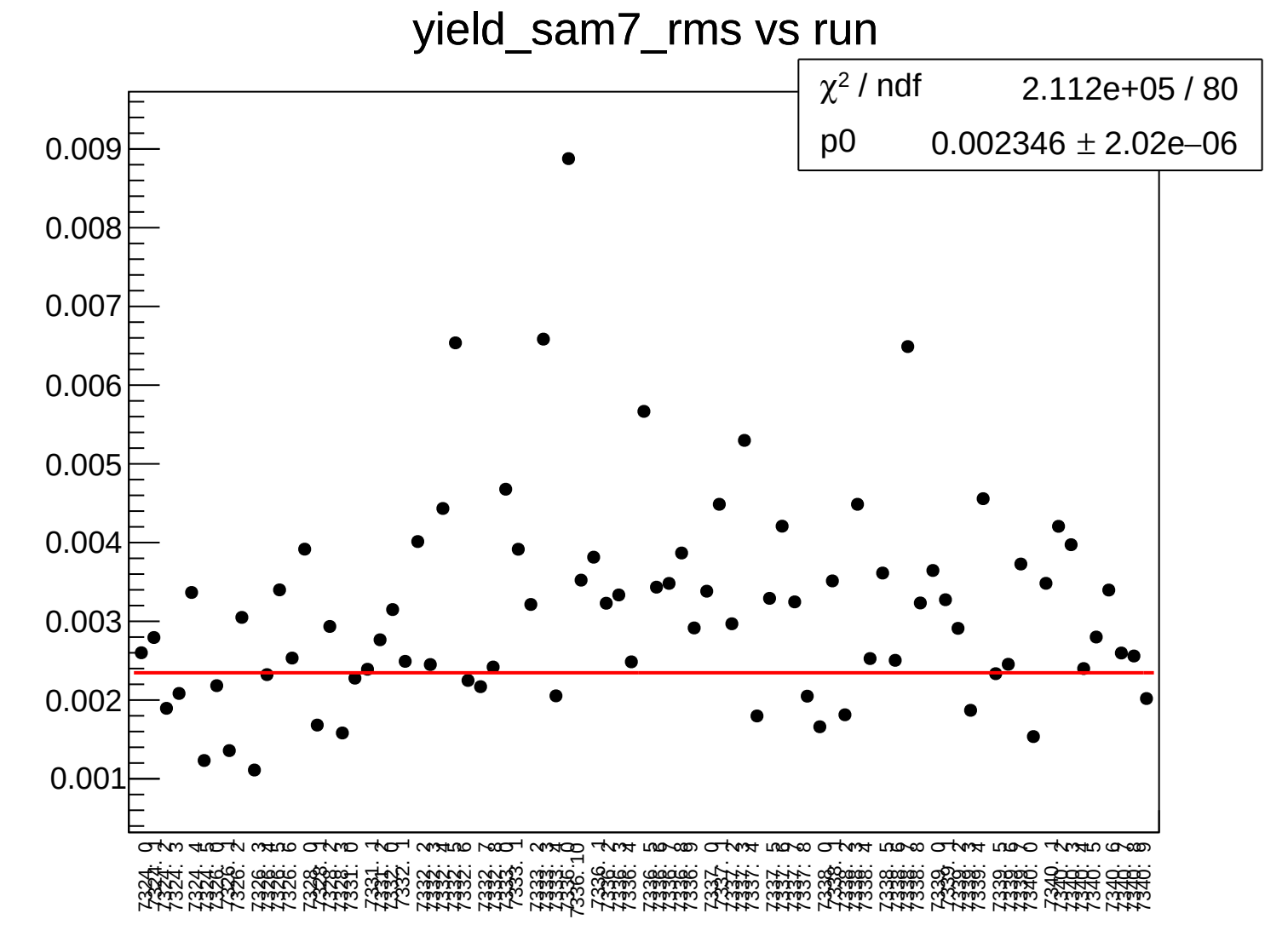

yield_sam6_mean vs run
χ² / ndf 1.824e+06 / 80
p0 8.631± 2.117e−05
8.72
8.7
8.68
8.66
8.64
8.62
8.6
8.58
pull
Entries 81
Mean −123.7
Std Dev 166.5
400
300
200
100
0
−100
−200
−300

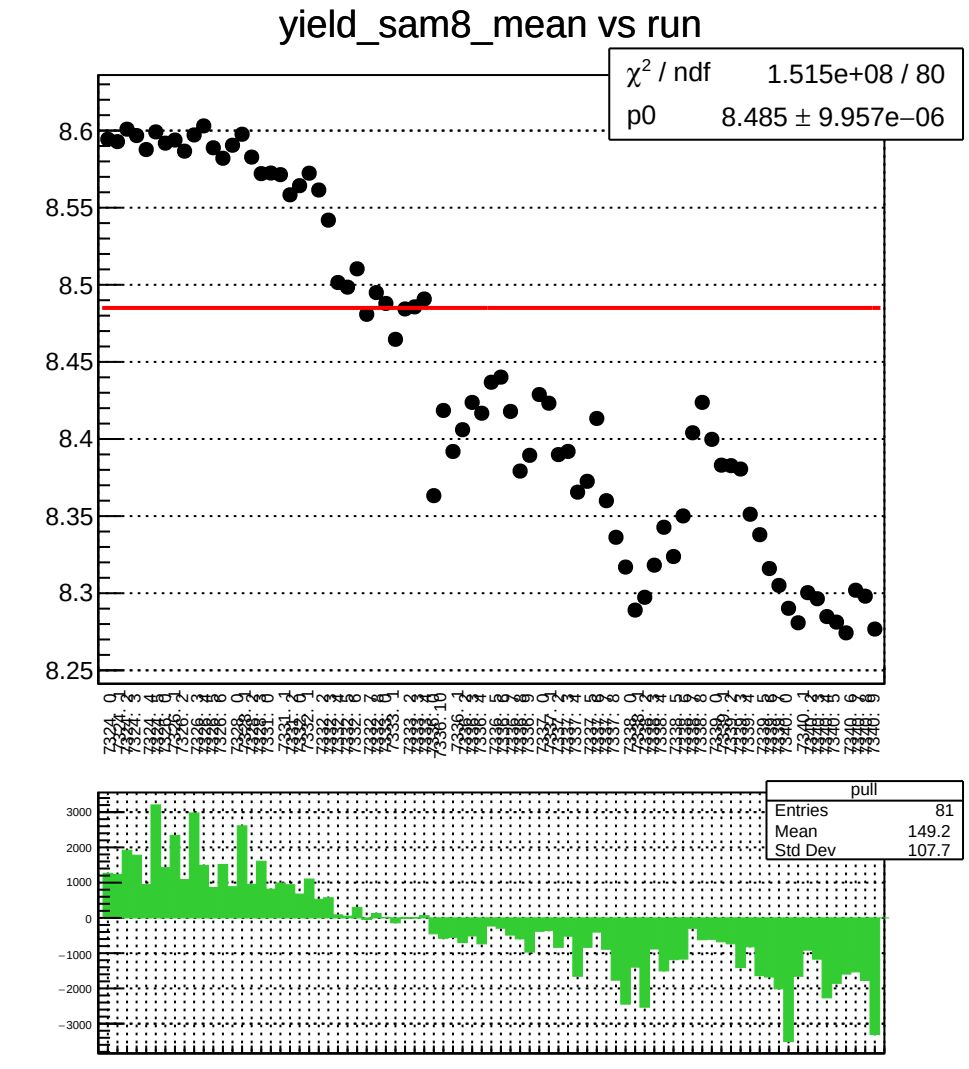

pull1D
Entries 81
Mean −1.554
Std Dev 0.5565
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

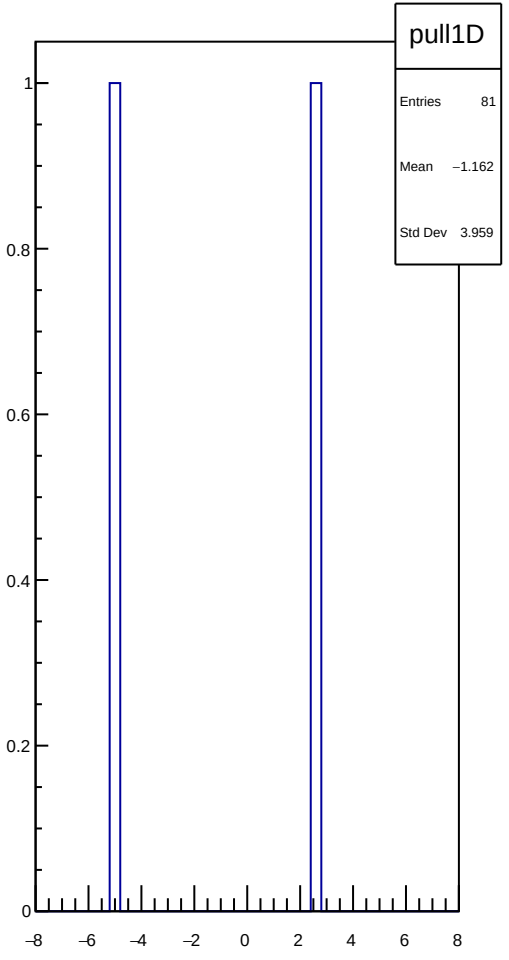

yield_sam6_rms vs run
χ^2 / ndf 1.316e+05 / 80
p0 0.01789 ± 1.497e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

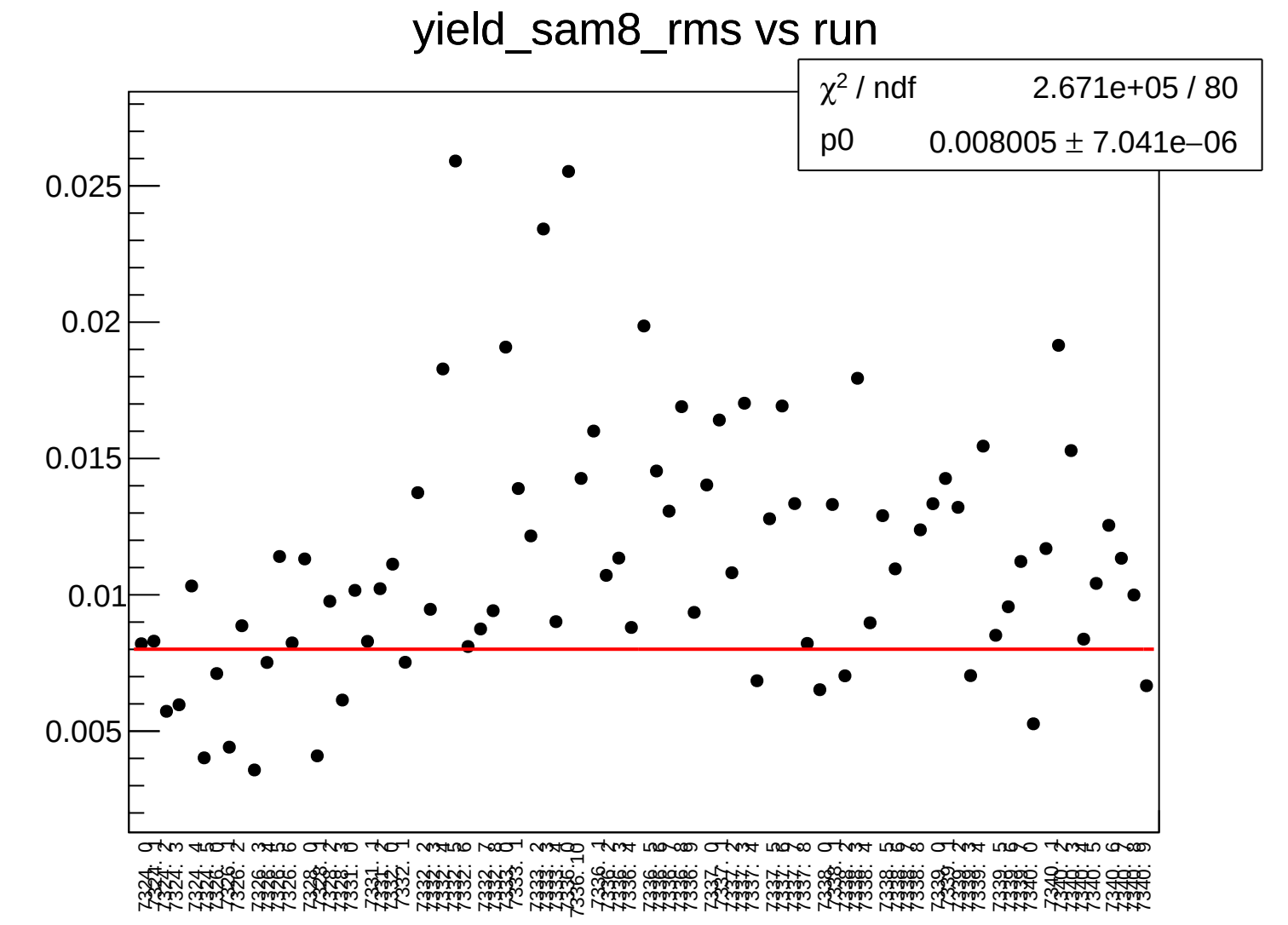

yield_sam7_mean vs run
χ² / ndf 5.952e+07 / 80
p0 2.373 ± 2.857e−06
2.4
2.39
2.38
2.37
2.36
2.35
2.34
2.33
pull
Entries 81
Mean 216.7
Std Dev 175.5
2000
1500
1000
500
0
−500
−1000
−1500
−2000

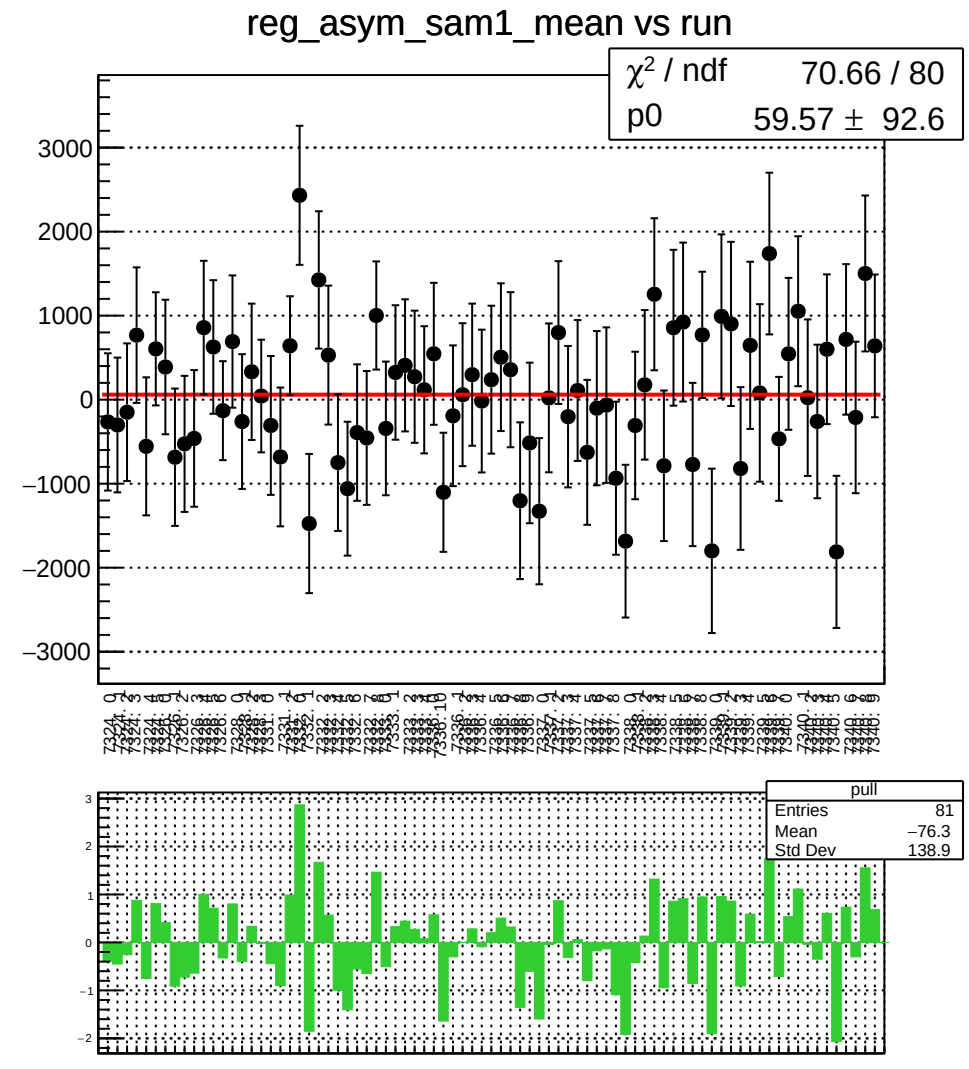

pull1D
Entries 81
Mean −2.39
Std Dev 1.791
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

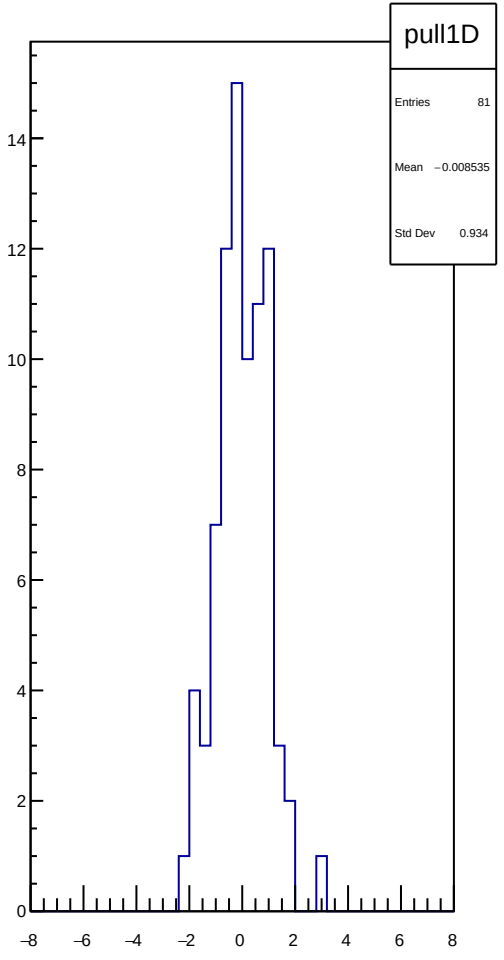

yield_sam7_rms vs run
χ² / ndf 2.112e+05 / 80
p0 0.002346 ± 2.02e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

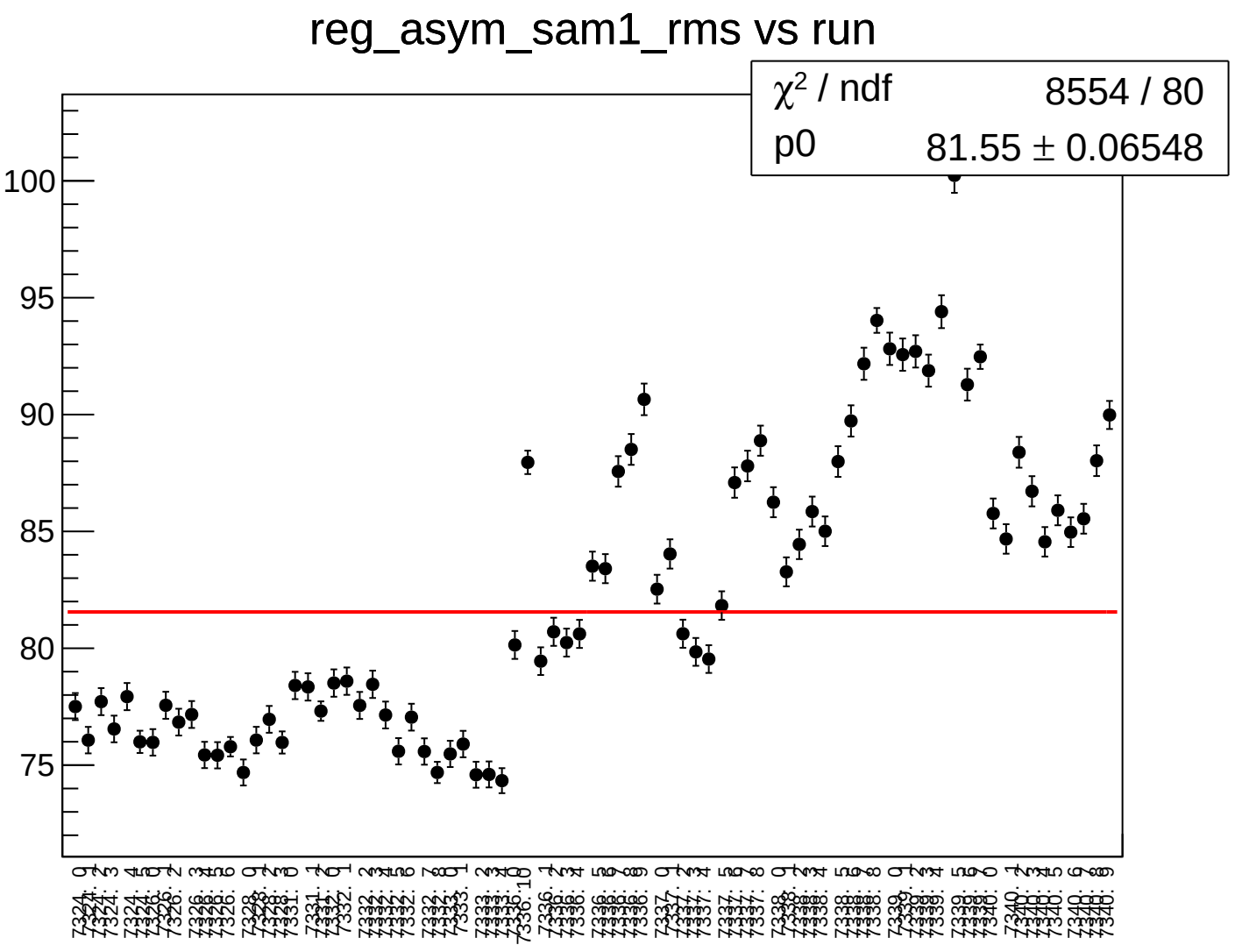

yield_sam8_mean vs run
χ² / ndf 1.515e+08 / 80
p0 8.485 ± 9.957e−06
8.6
8.55
8.5
8.45
8.4
8.35
8.3
8.25
pull
Entries 81
Mean 149.2
Std Dev 107.7
3000
2000
1000
0
−1000
−2000
−3000

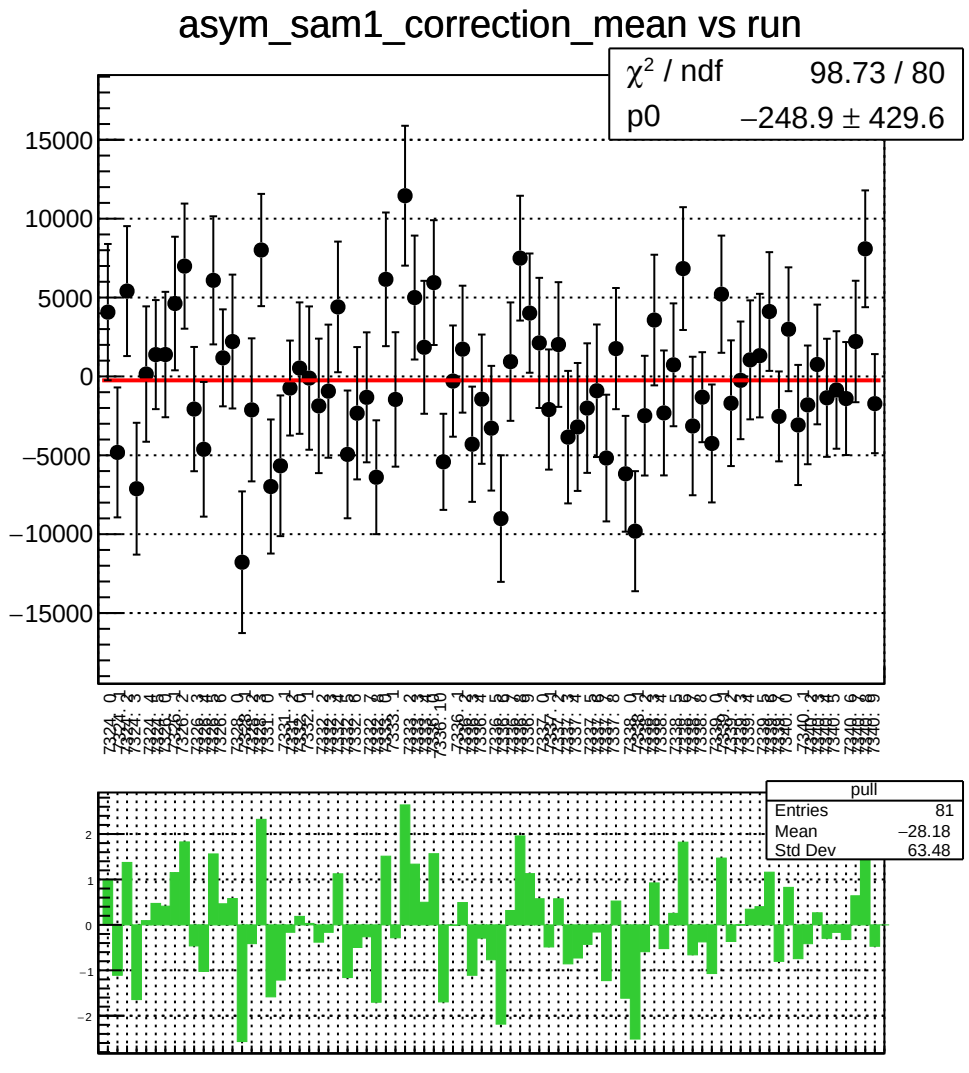

pull1D
Entries 81
Mean −1.162
Std Dev 3.959
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

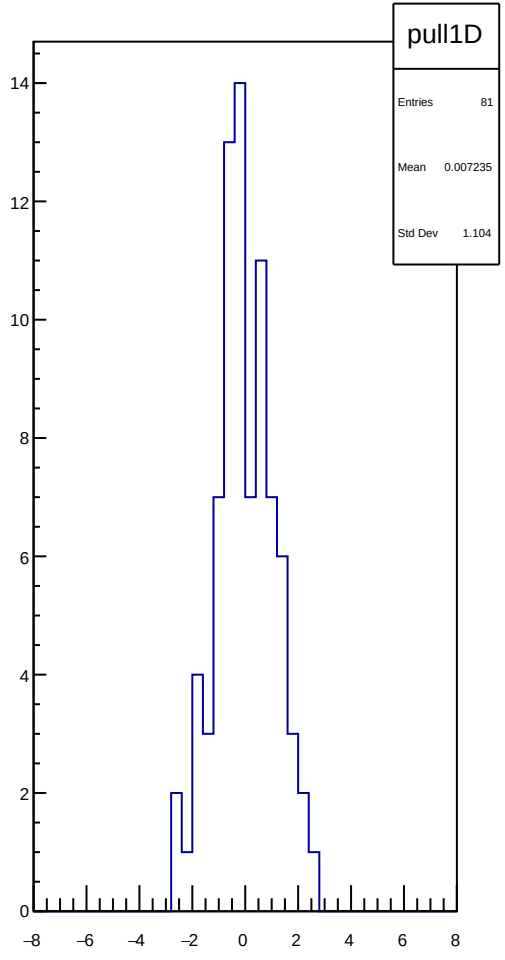

yield_sam8_rms vs run
χ^2 / ndf 2.671e+05 / 80
p0 0.008005 ± 7.041e−06
0.025
0.02
0.015
0.01
0.005

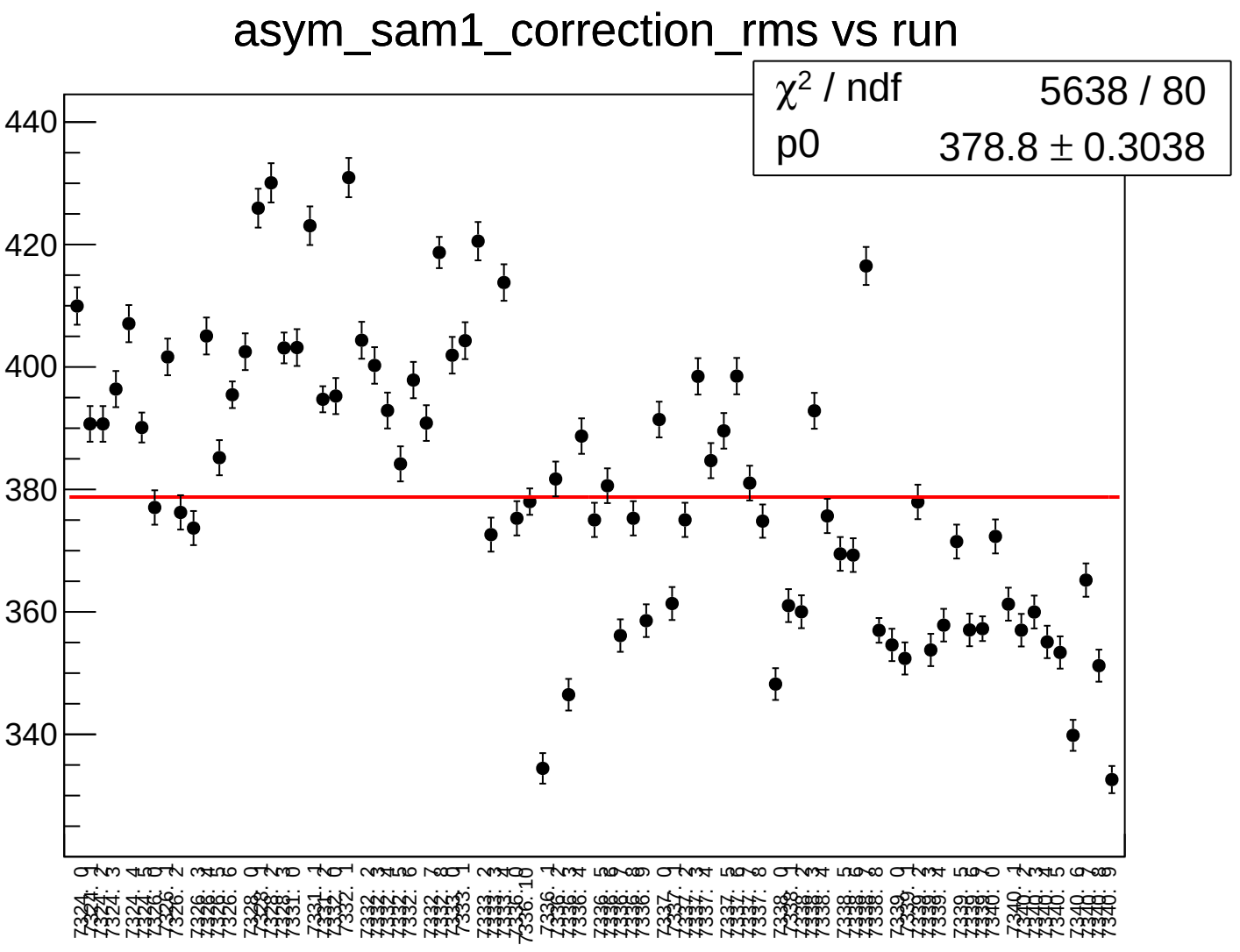

reg_asym_sam1_mean vs run
χ² / ndf 70.66 / 80
p0 59.57 ± 92.6
pull
Entries 81
Mean −76.3
Std Dev 138.9

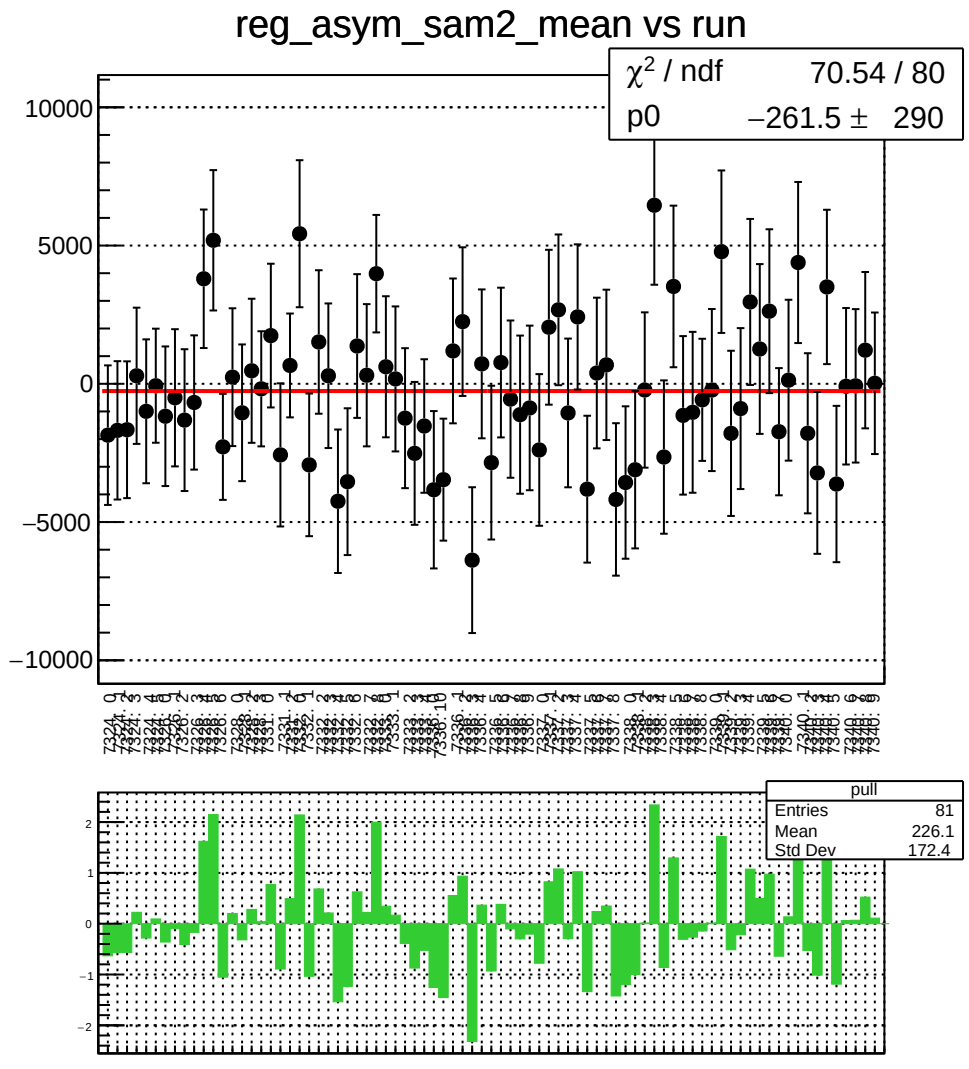

pull1D
Entries 81
Mean −0.008535
Std Dev 0.934

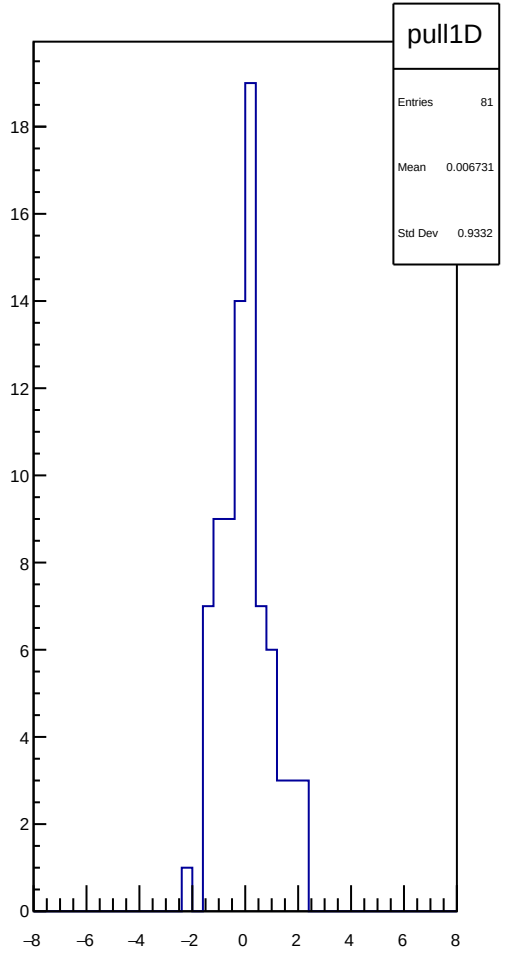

reg_asym_sam1_rms vs run
χ^2 / ndf 8554 / 80
p0 81.55 ± 0.06548
100
95
90
85
80
75

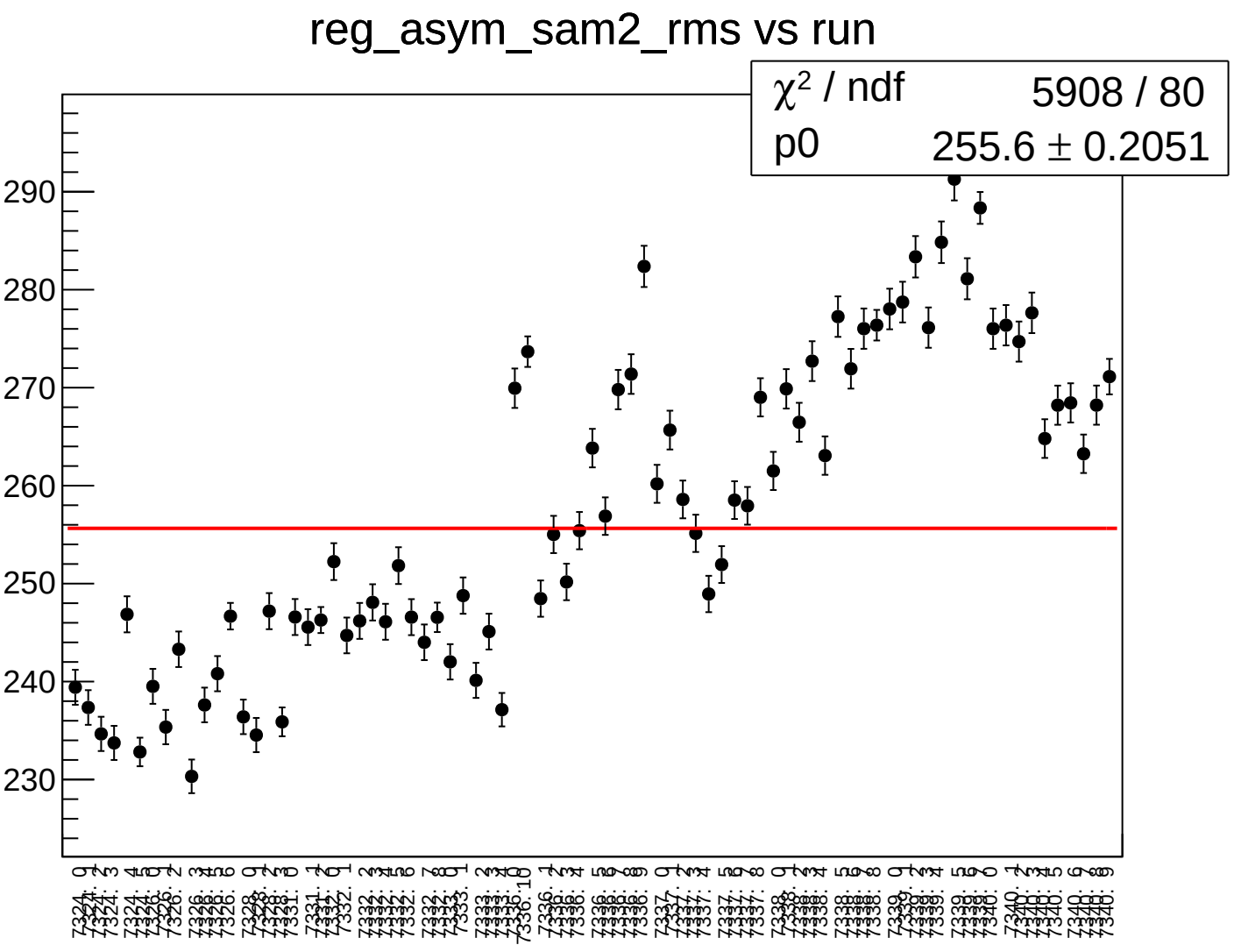

asym_sam1_correction_mean vs run
χ² / ndf 98.73 / 80
p0 −248.9 ± 429.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −28.18
Std Dev 63.48
2
1
0
−1
−2

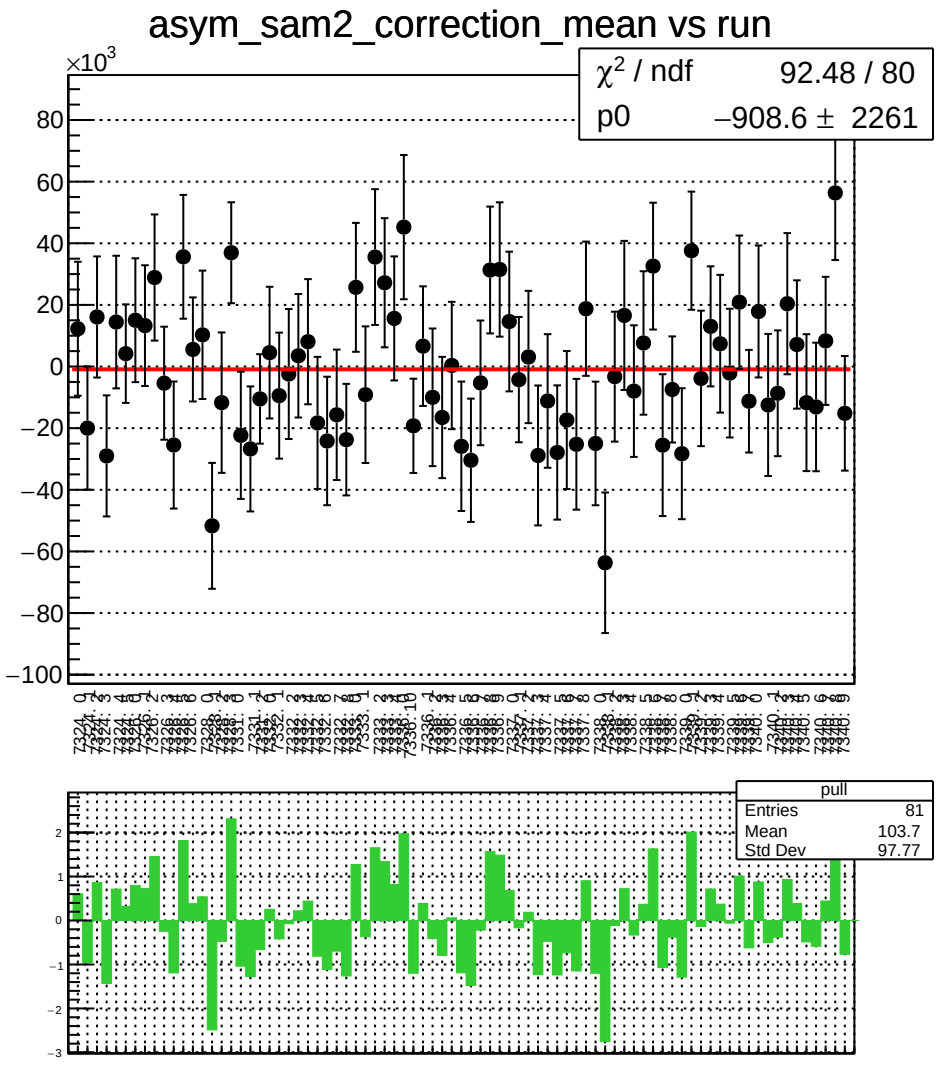

pull1D
Entries 81
Mean 0.007235
Std Dev 1.104
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

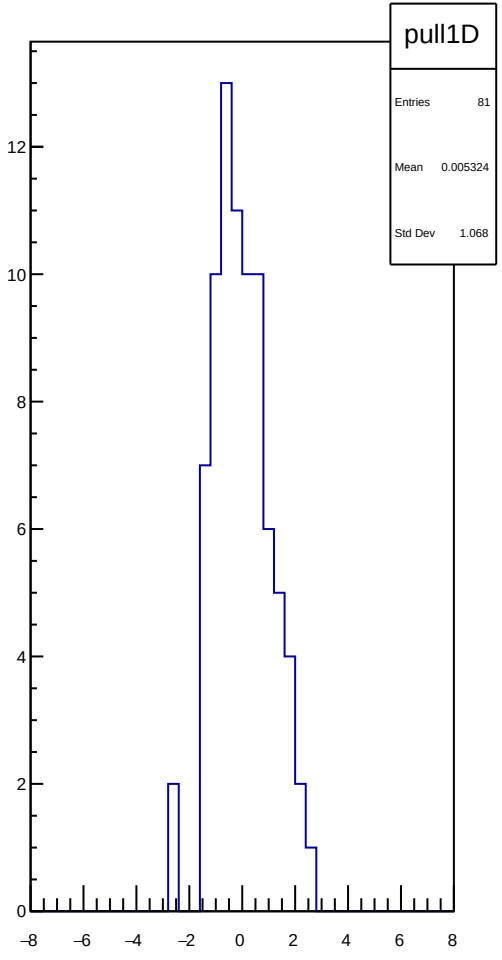

asym_sam1_correction_rms vs run
χ^2 / ndf 5638 / 80
p0 378.8 ± 0.3038
440
420
400
380
360
340

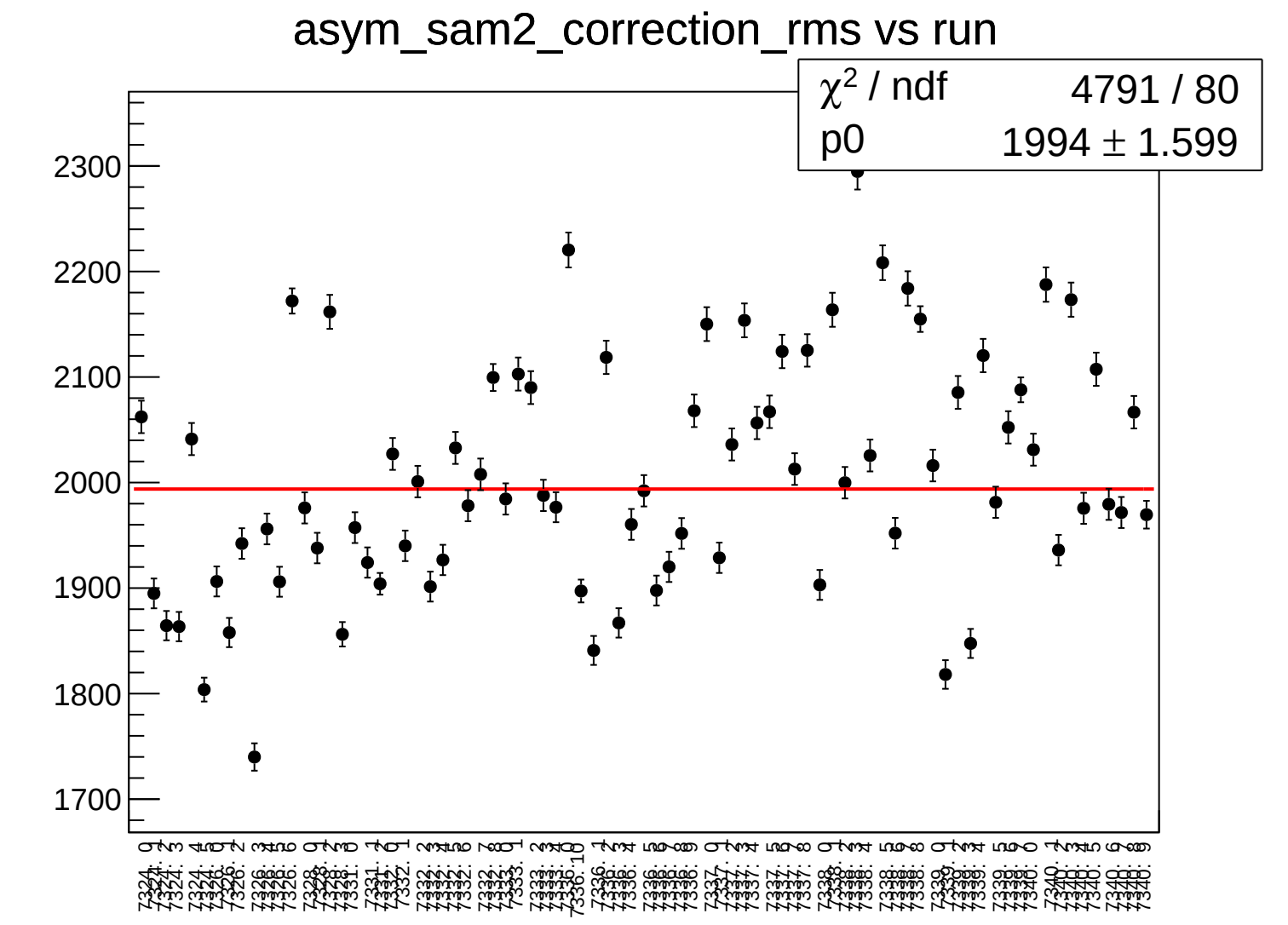

reg_asym_sam2_mean vs run
χ² / ndf 70.54 / 80
p0 −261.5 ± 290
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 226.1
Std Dev 172.4
2
1
0
−1
−2

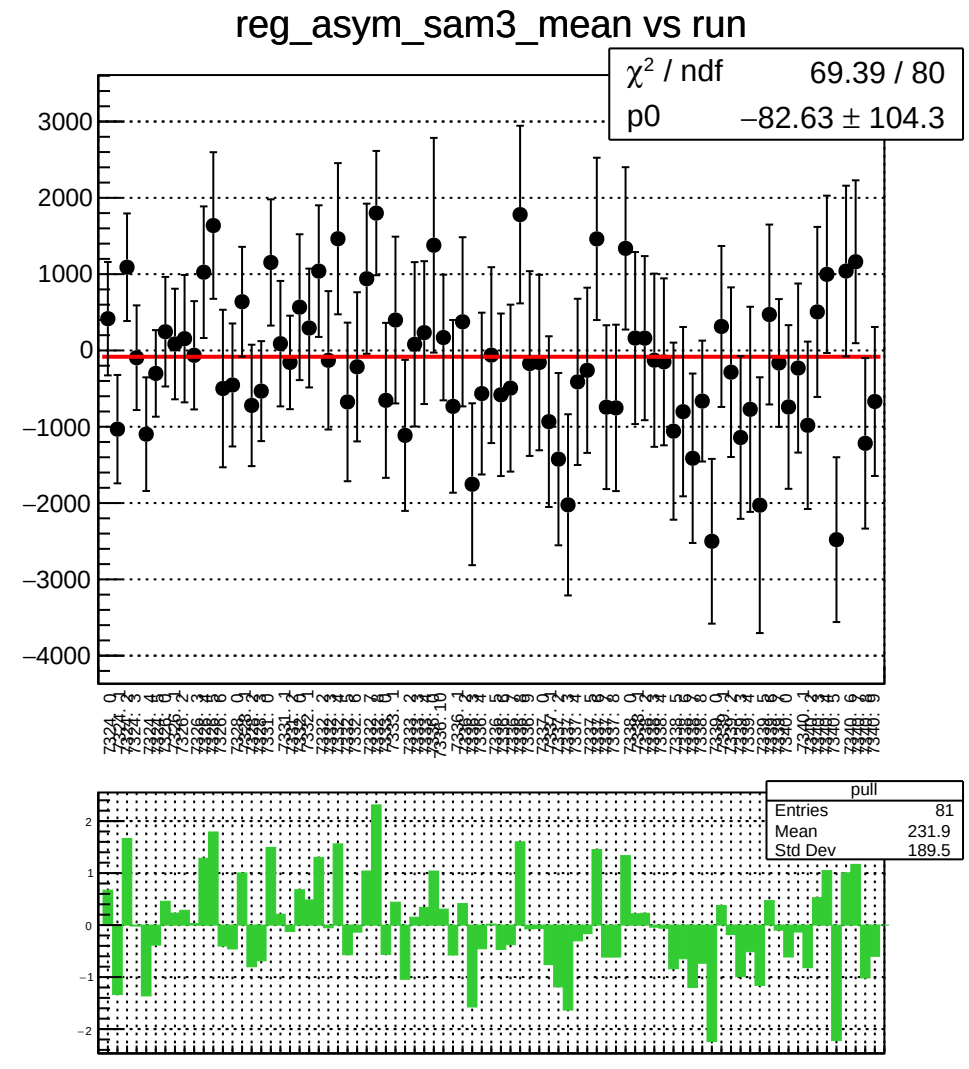

pull1D
Entries 81
Mean 0.006731
Std Dev 0.9332
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

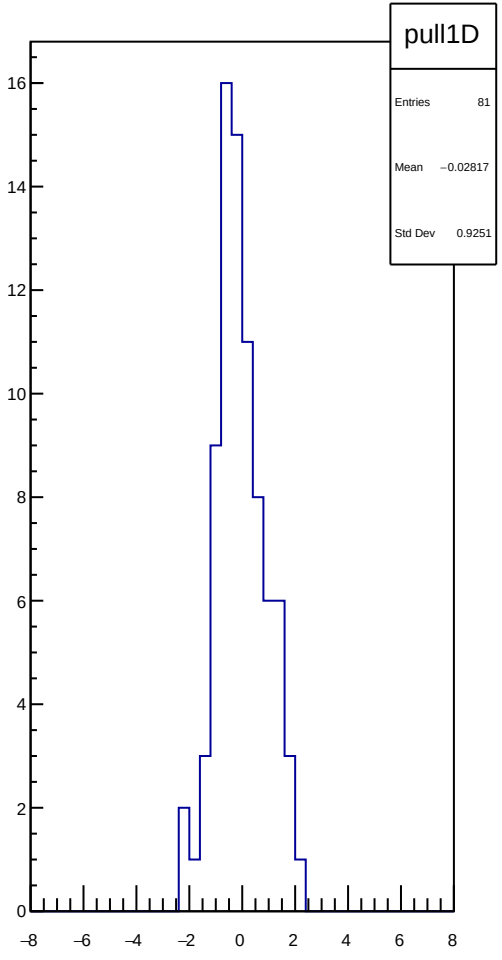

reg_asym_sam2_rms vs run
χ² / ndf 5908 / 80
p0 255.6 ± 0.2051
290
280
270
260
250
240
230

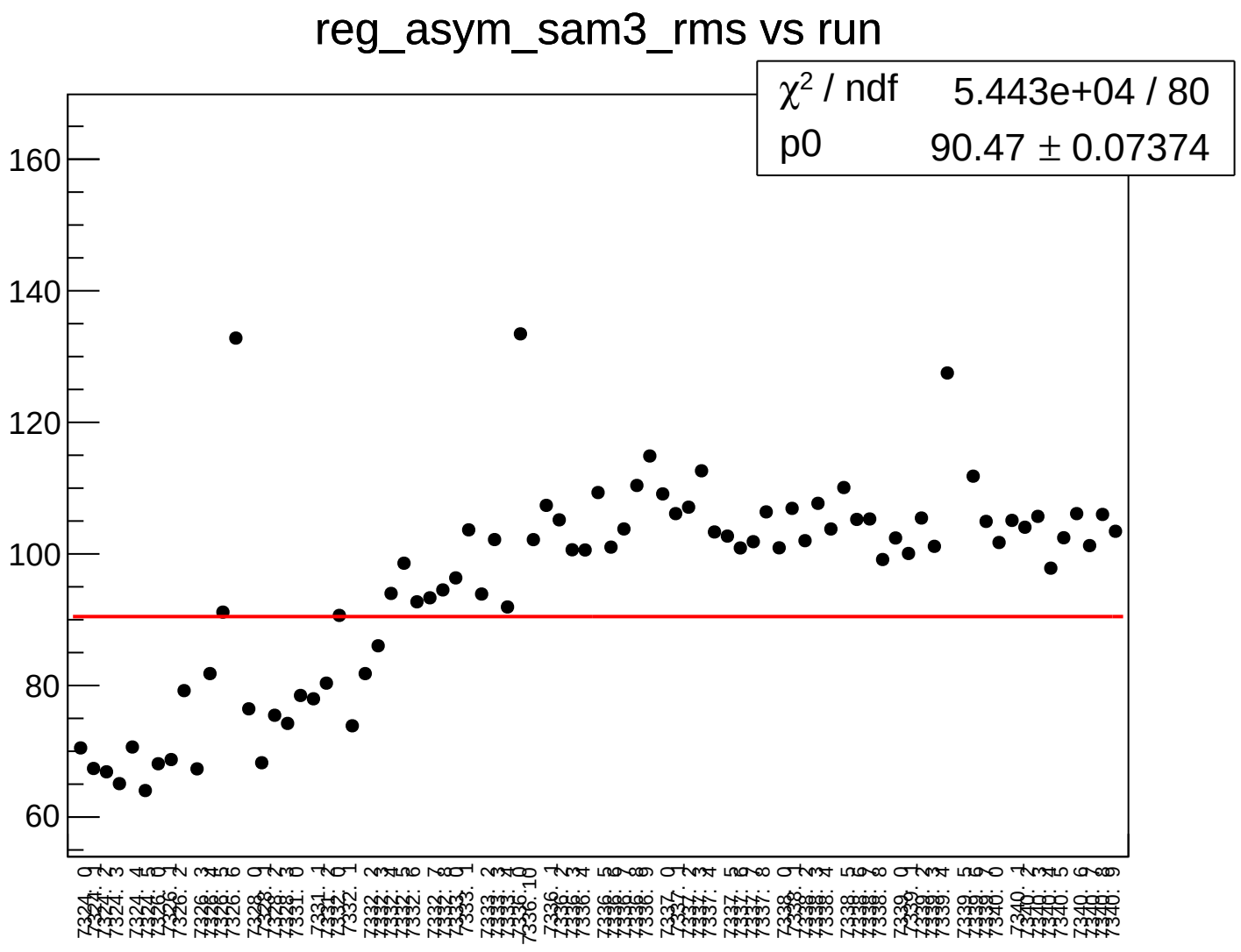

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 92.48 / 80
p0 −908.6 ± 2261
pull
Entries 81
Mean 103.7
Std Dev 97.77

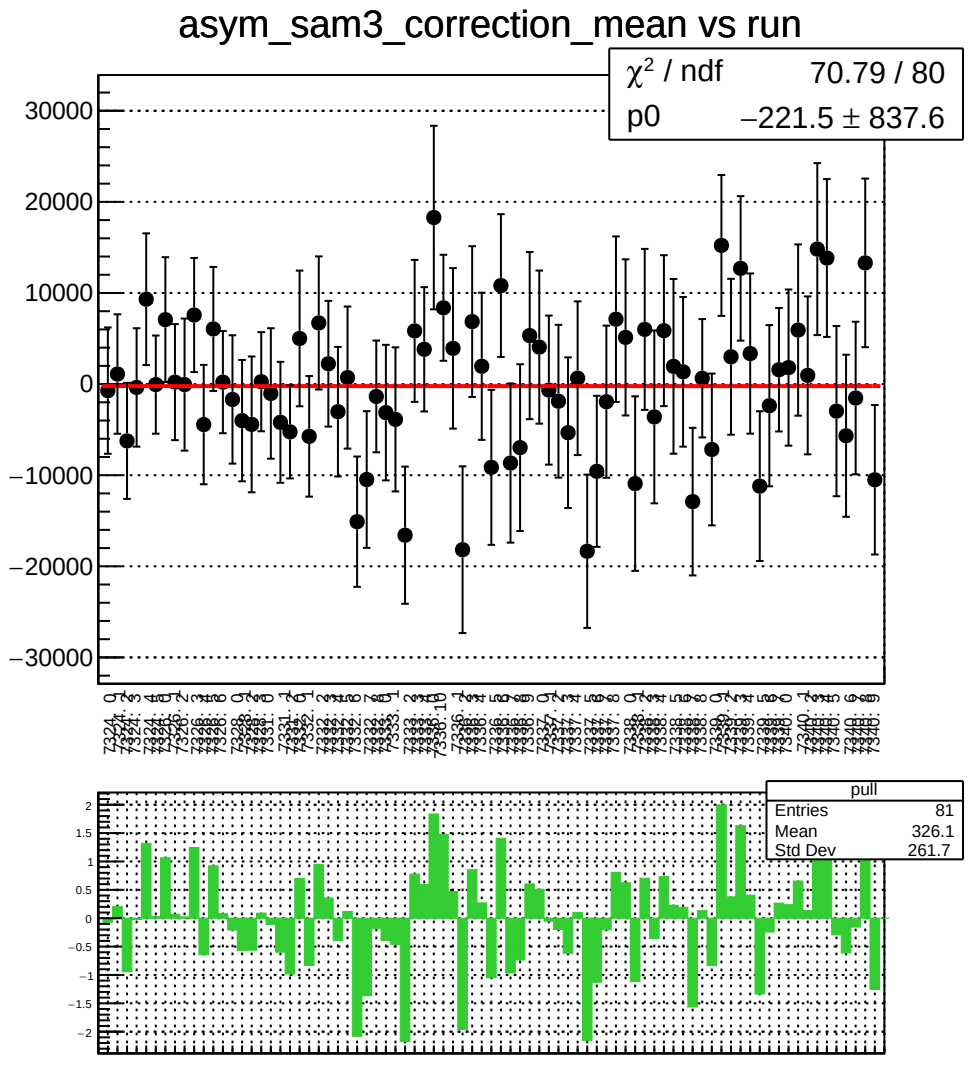

pull1D
Entries 81
Mean 0.005324
Std Dev 1.068

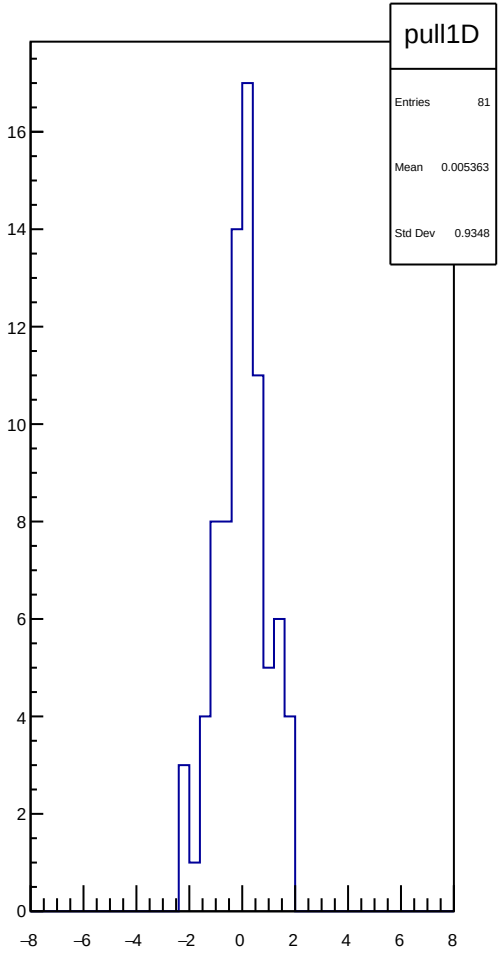

asym_sam2_correction_rms vs run
χ² / ndf 4791 / 80
p0 1994 ± 1.599
2300
2200
2100
2000
1900
1800
1700

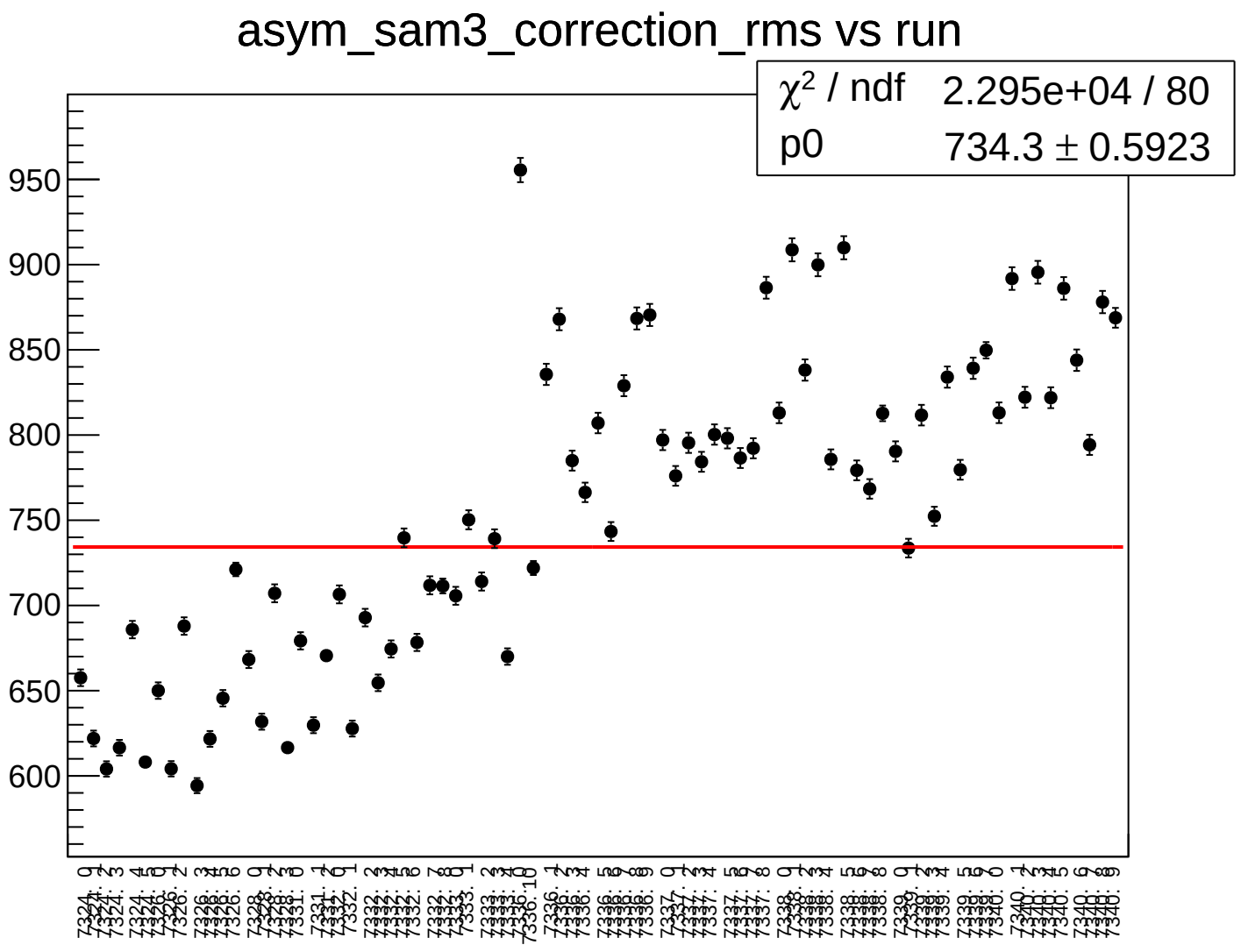

reg_asym_sam3_mean vs run
χ² / ndf 69.39 / 80
p0 −82.63 ± 104.3
pull
Entries 81
Mean 231.9
Std Dev 189.5

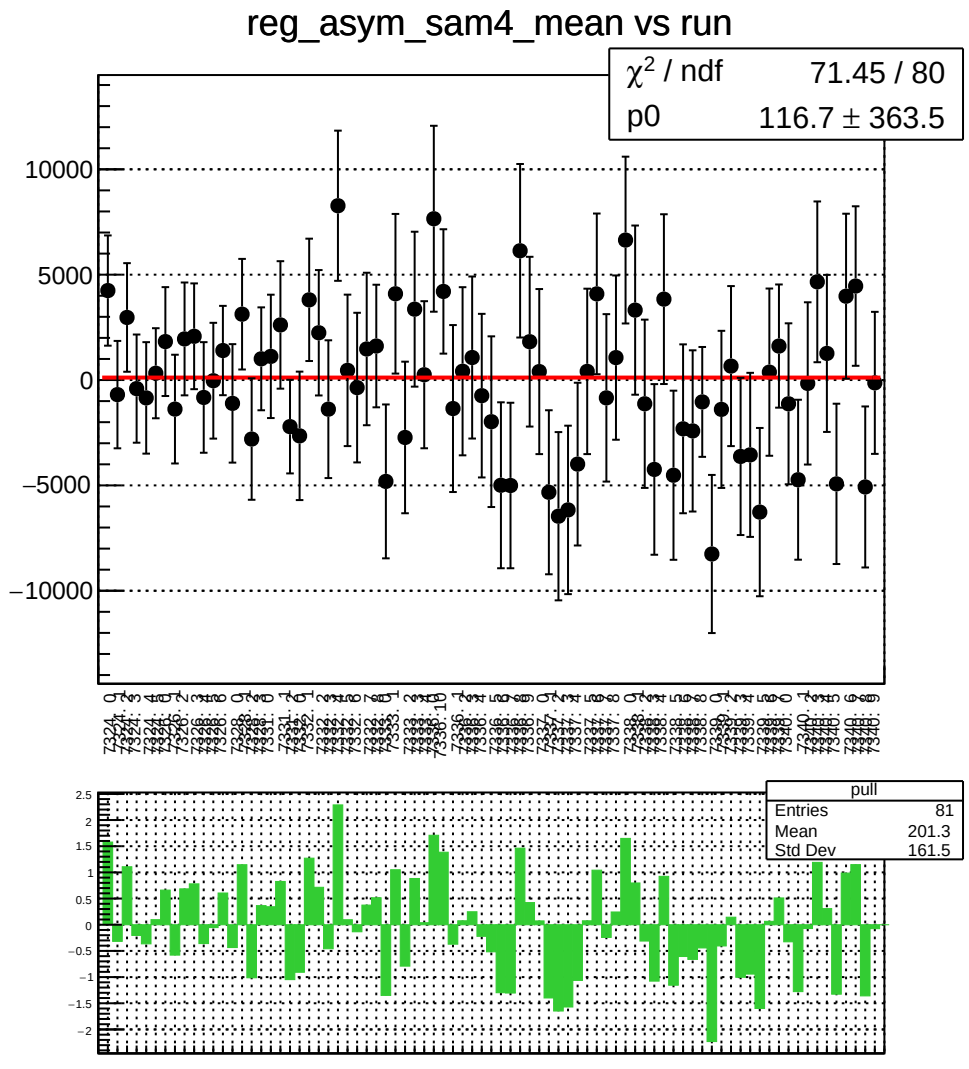

pull1D
Entries 81
Mean −0.02817
Std Dev 0.9251

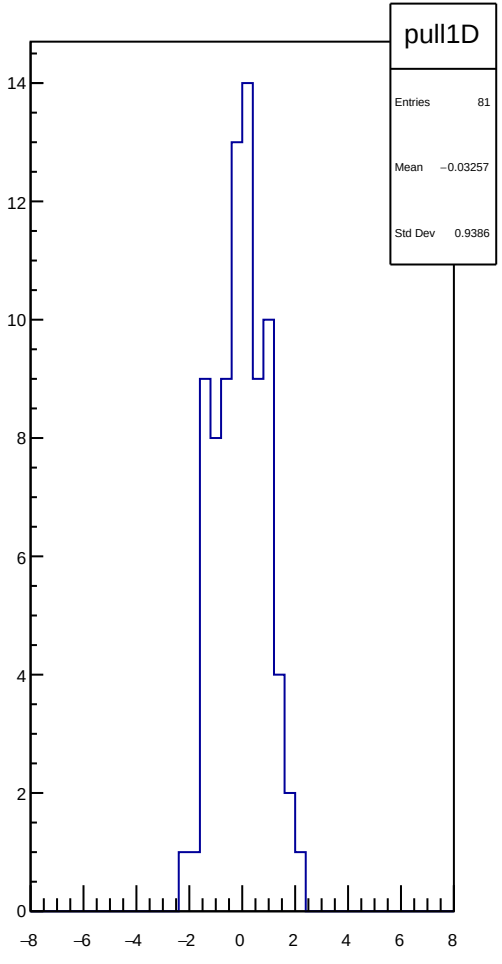

reg_asym_sam3_rms vs run
χ² / ndf 5.443e+04 / 80
p0 90.47 ± 0.07374
160
140
120
100
80
60

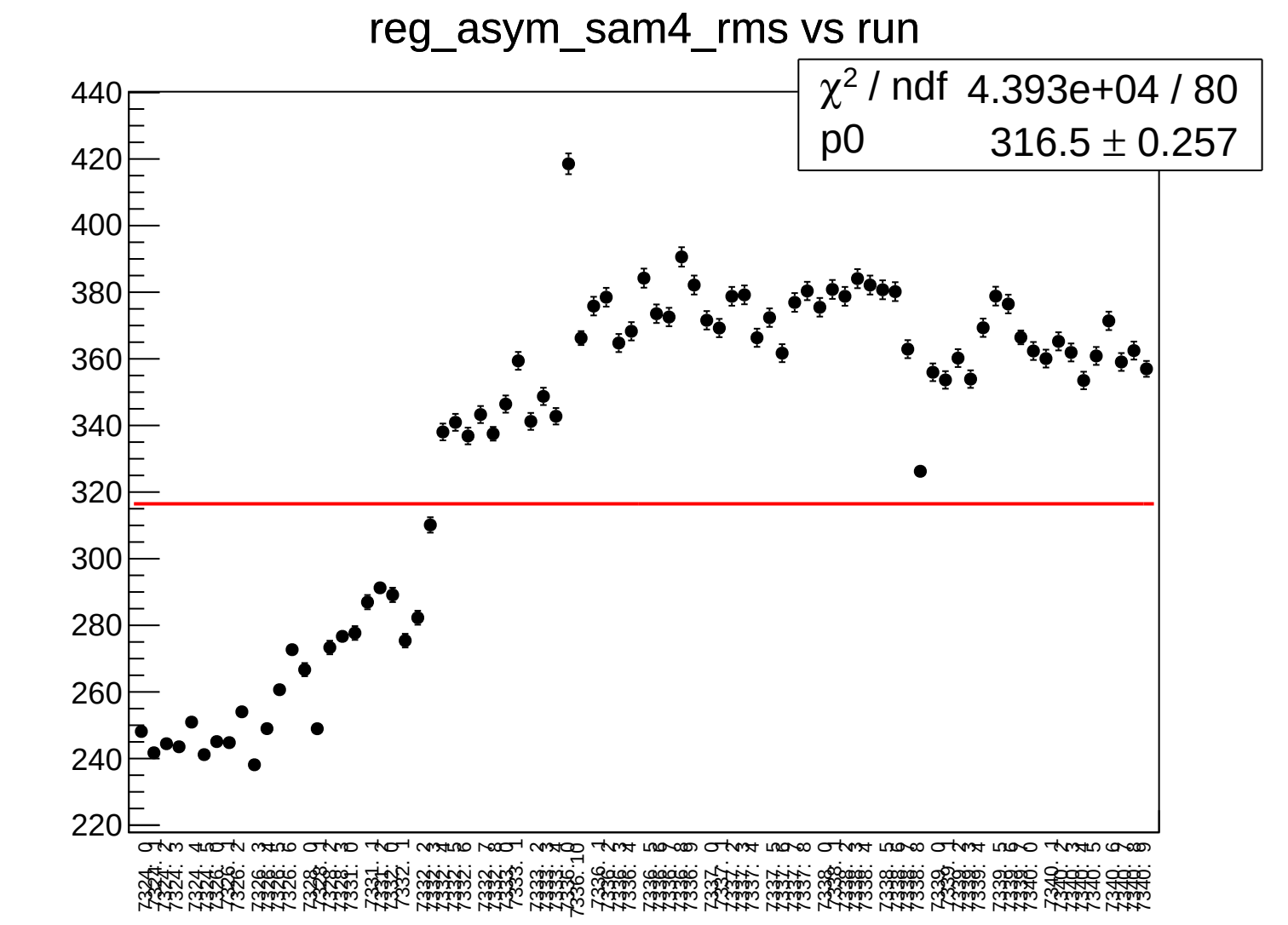

asym_sam3_correction_mean vs run
χ² / ndf 70.79 / 80
p0 −221.5 ± 837.6
pull
Entries 81
Mean 326.1
Std Dev 261.7

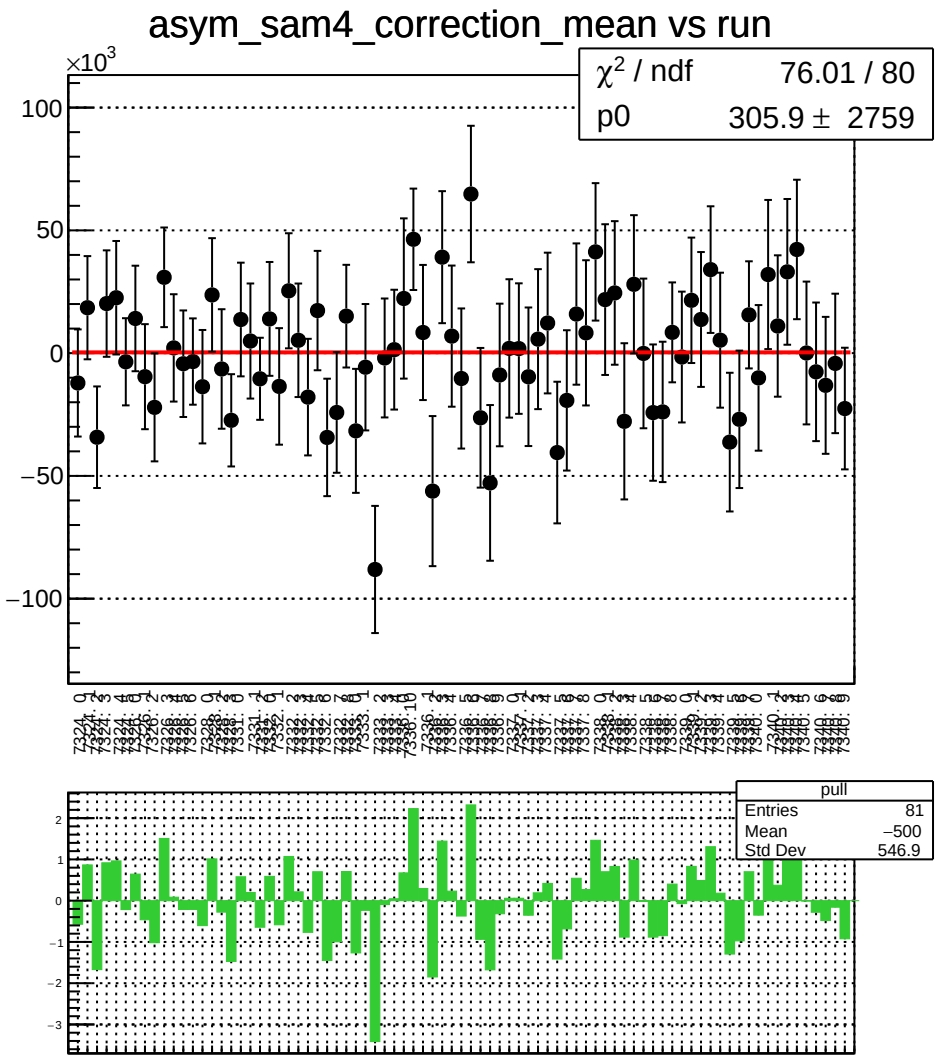

pull1D
Entries 81
Mean 0.005363
Std Dev 0.9348

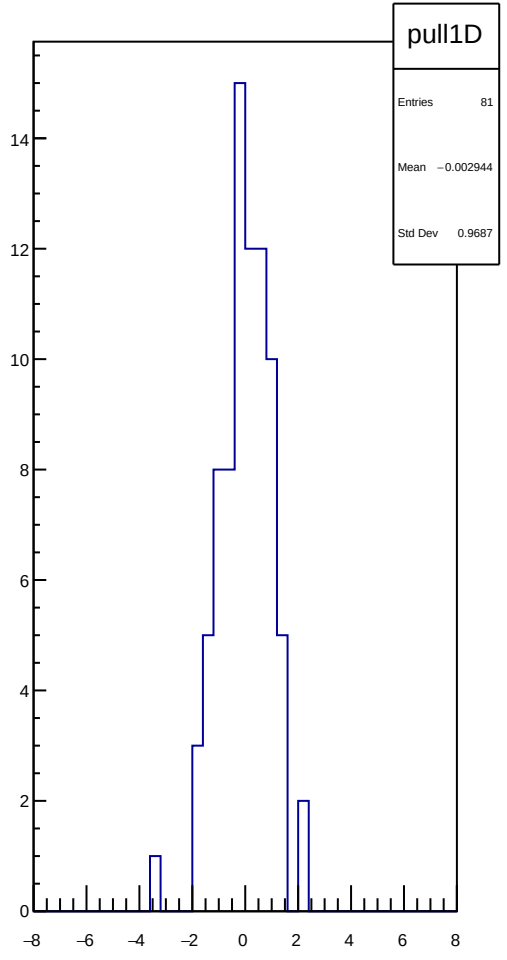

asym_sam3_correction_rms vs run
χ^2 / ndf 2.295e+04 / 80
p0 734.3 ± 0.5923
950
900
850
800
750
700
650
600

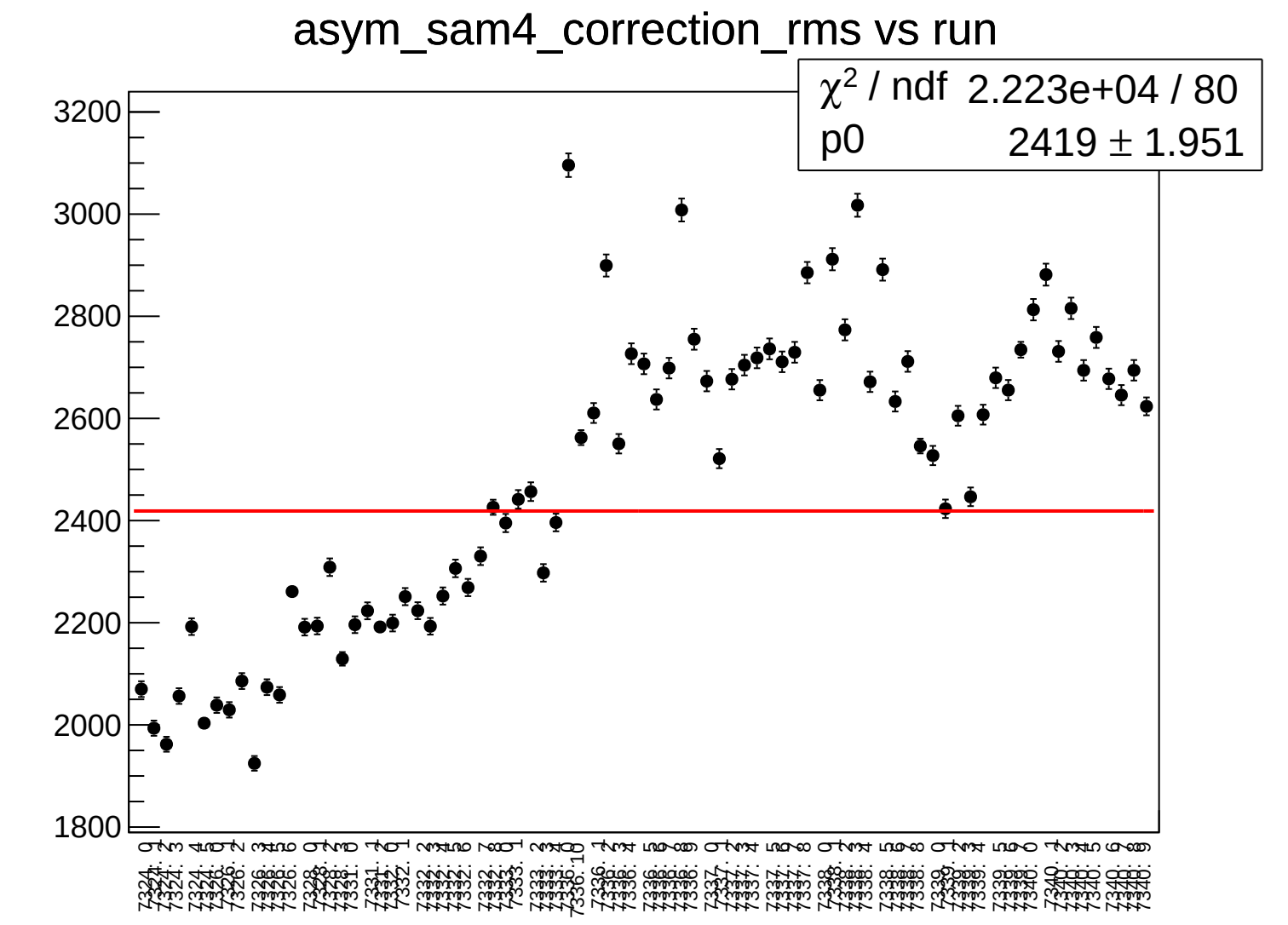

reg_asym_sam4_mean vs run
χ^2 / ndf 71.45 / 80
p0 116.7 ± 363.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 201.3
Std Dev 161.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

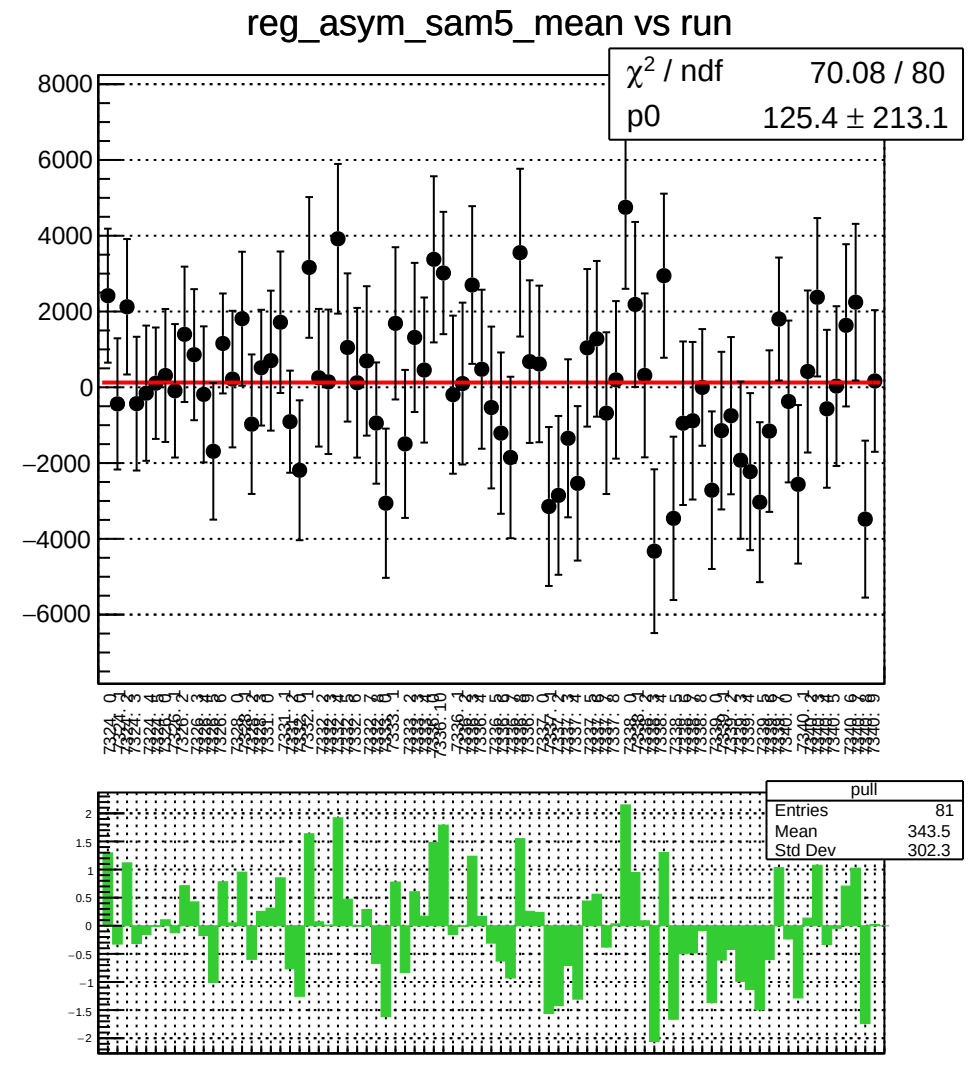

pull1D
Entries 81
Mean −0.03257
Std Dev 0.9386
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

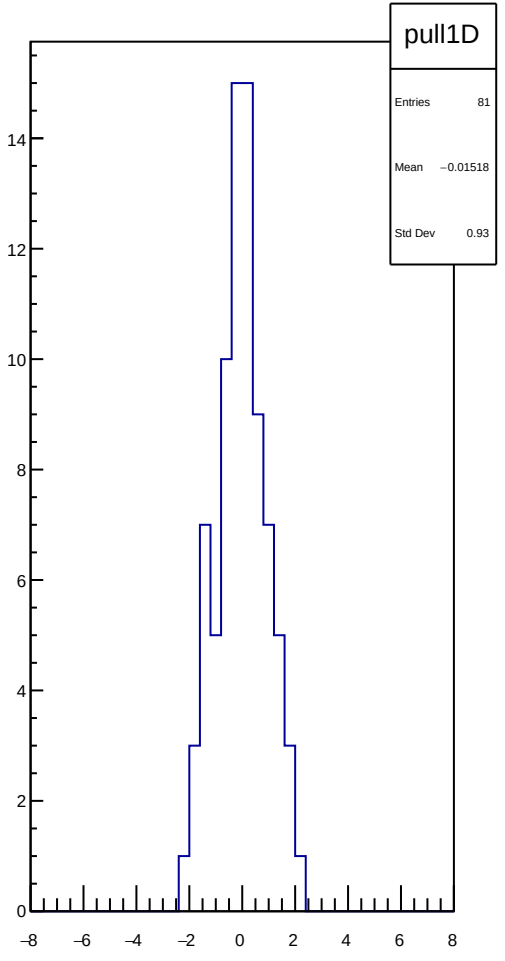

reg_asym_sam4_rms vs run
χ^2 / ndf 4.393e+04 / 80
p0 316.5 ± 0.257
440
420
400
380
360
340
320
300
280
260
240
220

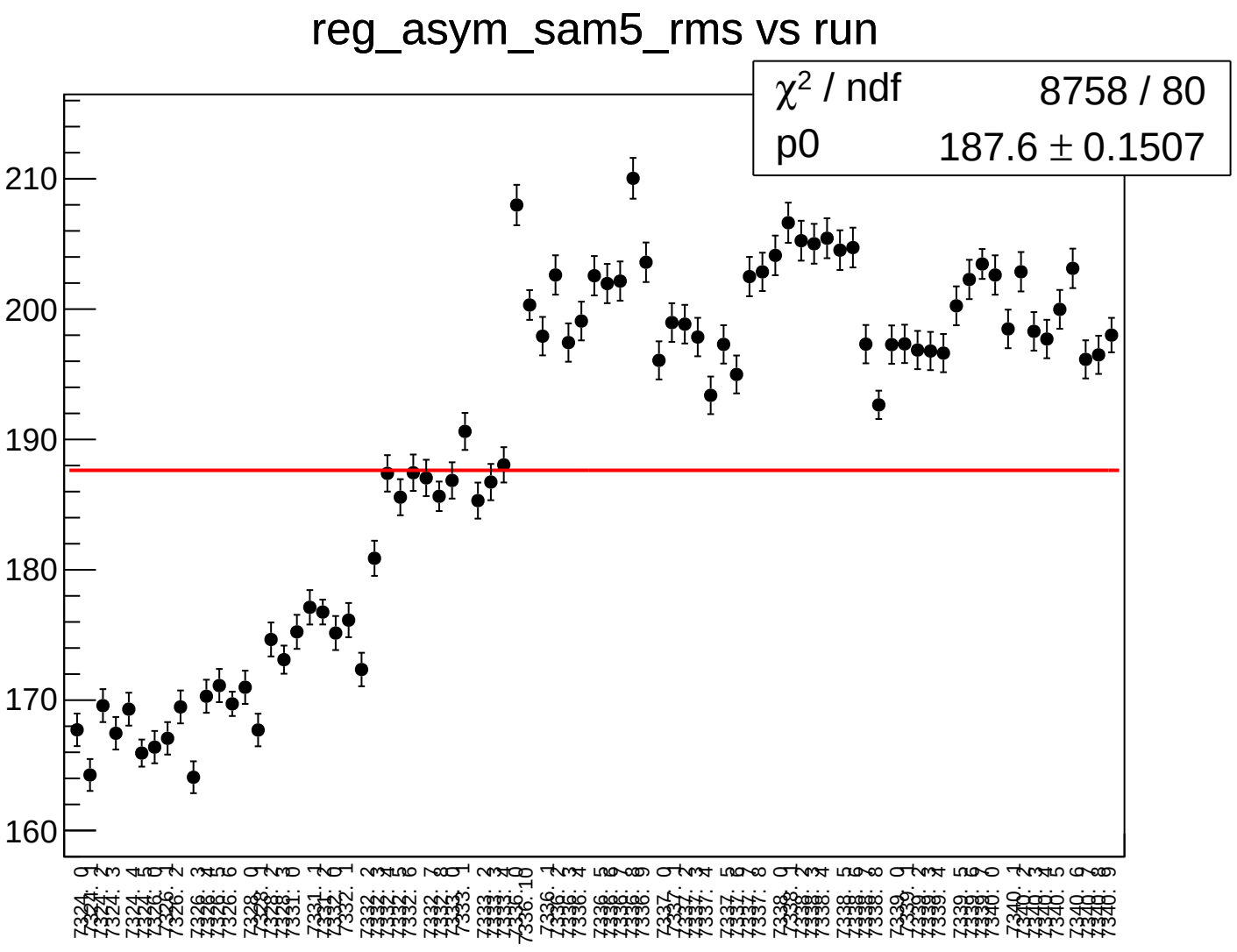

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 76.01 / 80
p0 305.9 ± 2759
100
50
0
−50
−100
pull
Entries 81
Mean −500
Std Dev 546.9
2
1
0
−1
−2
−3

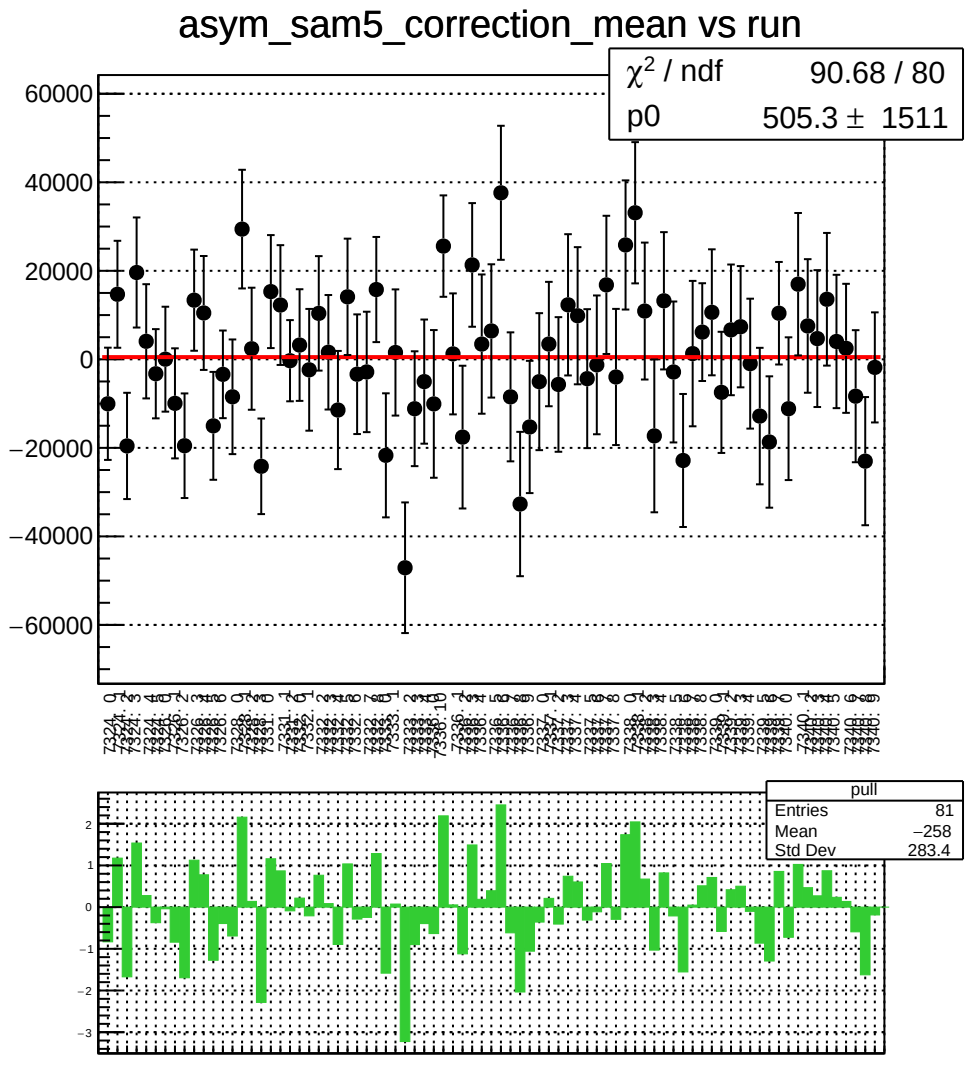

pull1D
Entries 81
Mean −0.002944
Std Dev 0.9687
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

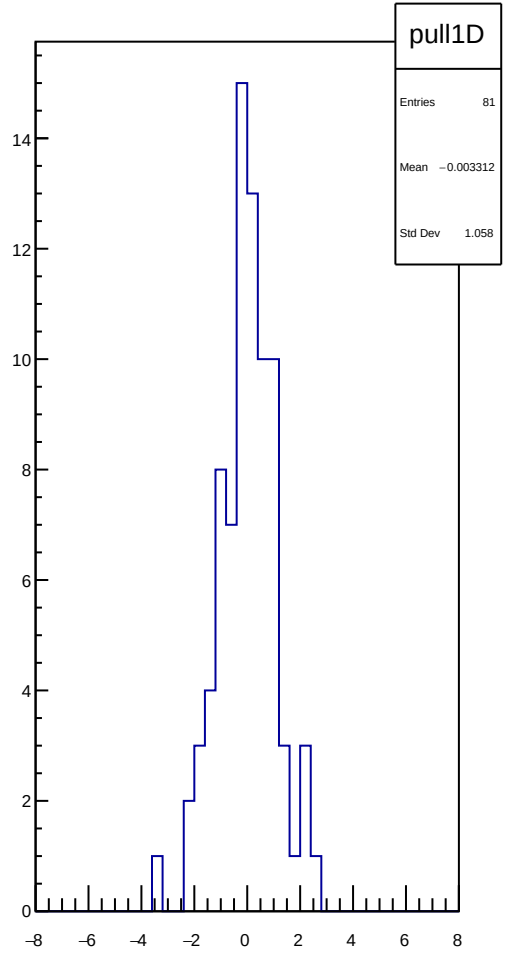

asym_sam4_correction_rms vs run
χ² / ndf 2.223e+04 / 80
p0 2419 ± 1.951
3200
3000
2800
2600
2400
2200
2000
1800

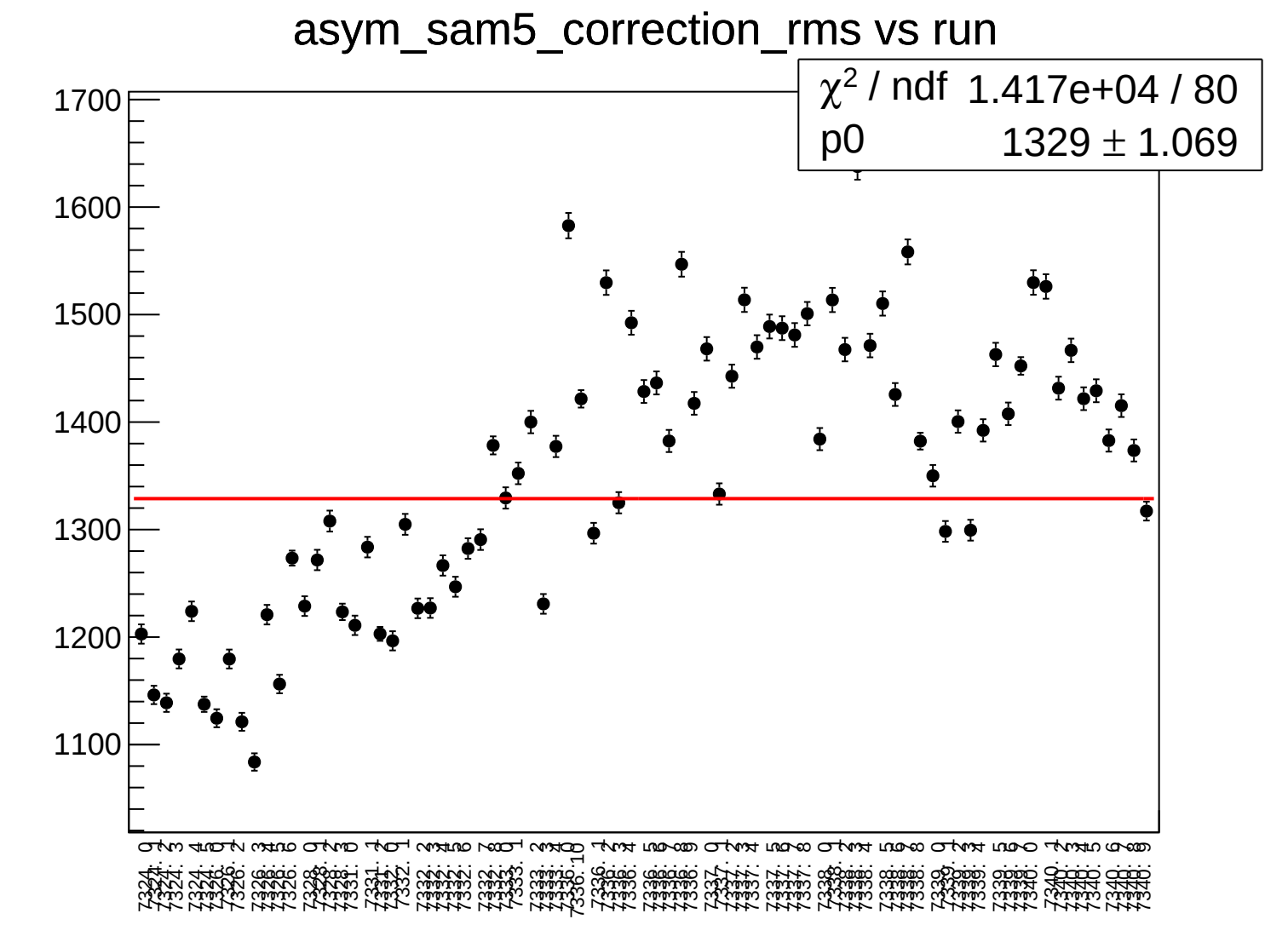

reg_asym_sam5_mean vs run
χ² / ndf 70.08 / 80
p0 125.4 ± 213.1
pull
Entries 81
Mean 343.5
Std Dev 302.3

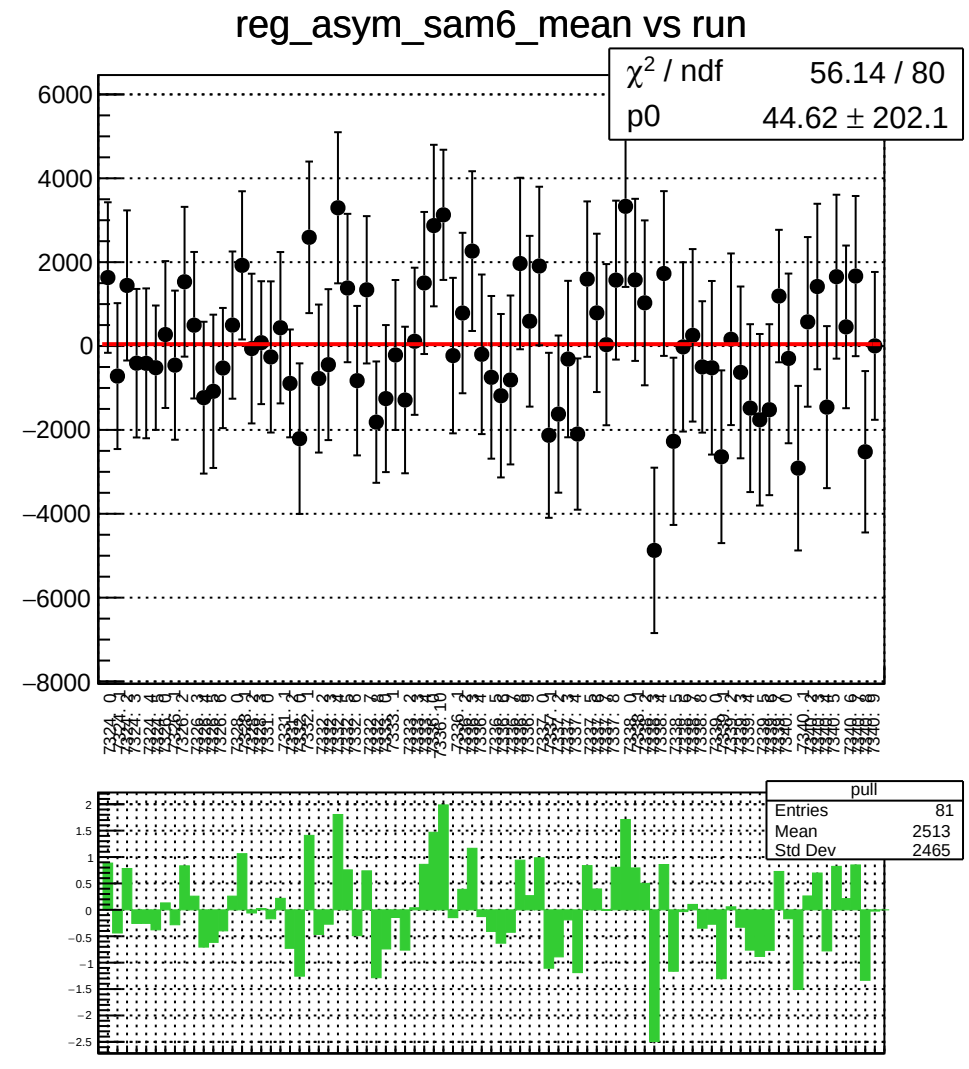

pull1D
Entries 81
Mean −0.01518
Std Dev 0.93

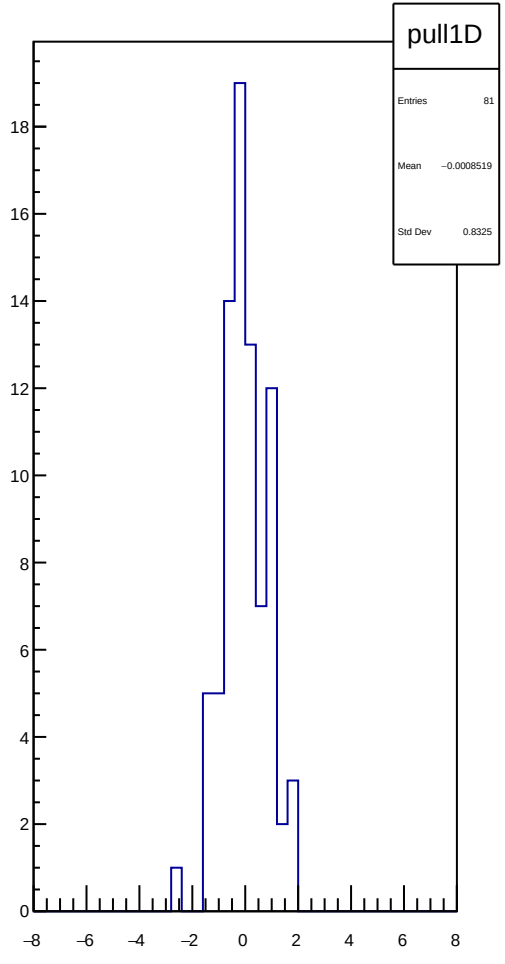

reg_asym_sam5_rms vs run
χ² / ndf 8758 / 80
p0 187.6 ± 0.1507
210
200
190
180
170
160

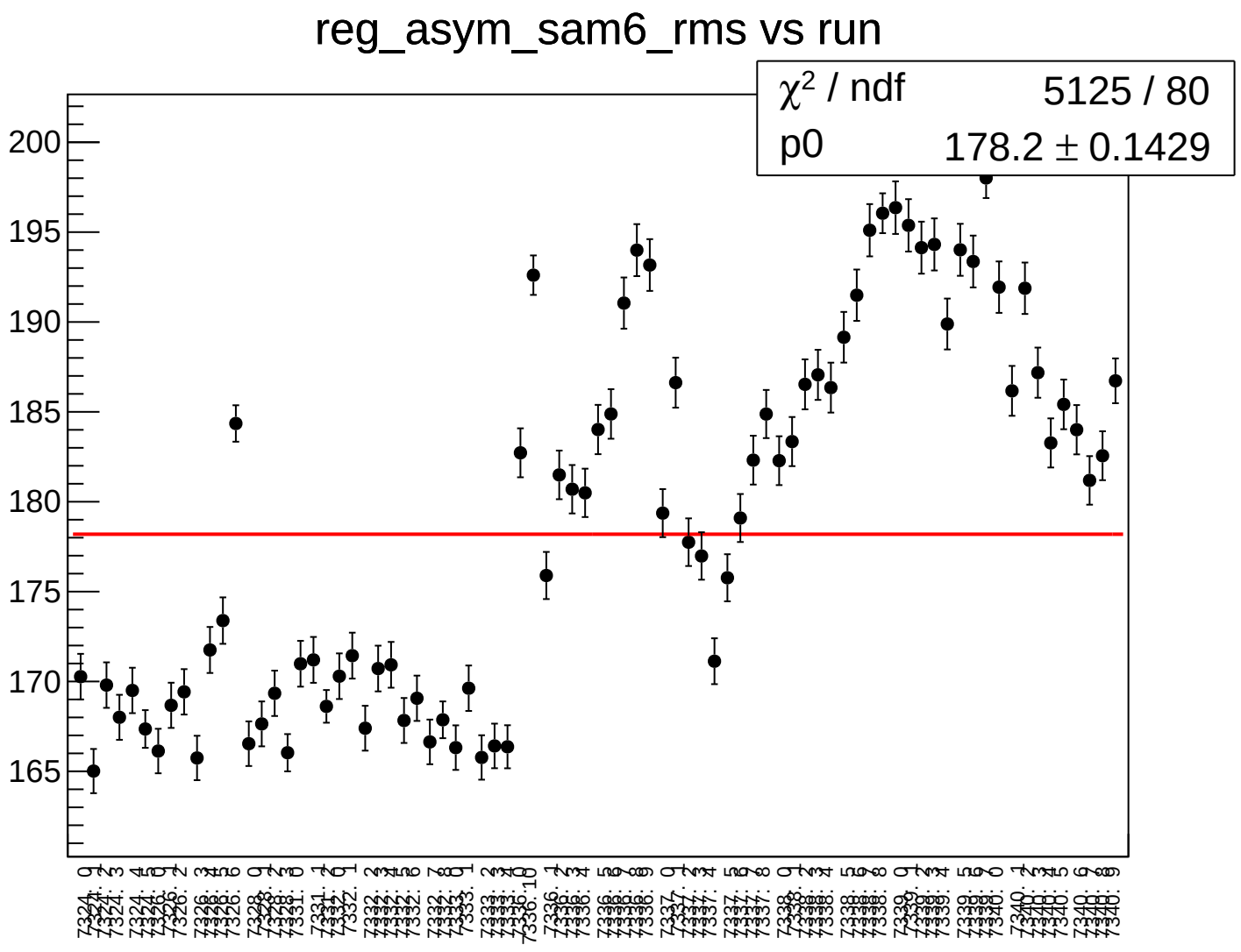

asym_sam5_correction_mean vs run
χ² / ndf 90.68 / 80
p0 505.3 ± 1511
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −258
Std Dev 283.4
2
1
0
−1
−2
−3

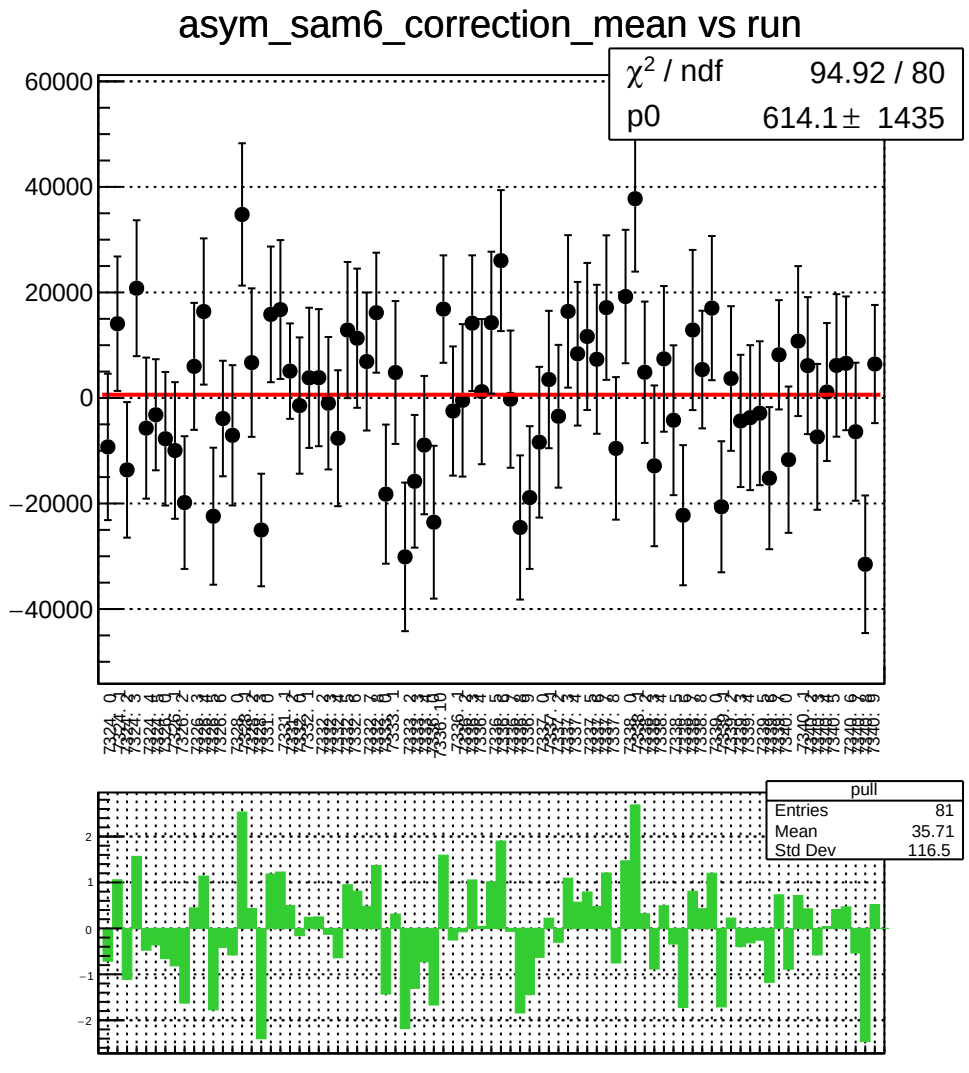

pull1D
Entries 81
Mean −0.003312
Std Dev 1.058
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

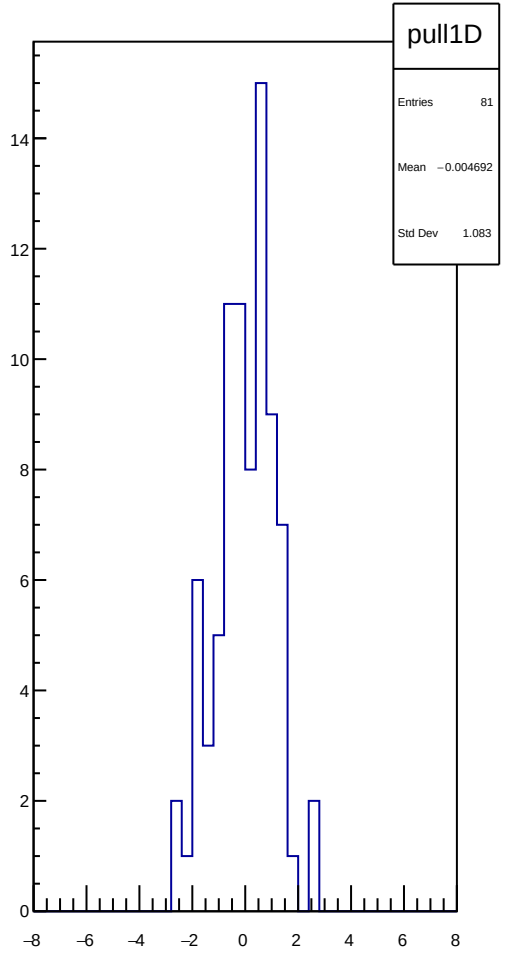

asym_sam5_correction_rms vs run
χ² / ndf 1.417e+04 / 80
p0 1329 ± 1.069
1700
1600
1500
1400
1300
1200
1100


reg_asym_sam6_mean vs run
χ^2 / ndf 56.14 / 80
p0 44.62 ± 202.1
pull
Entries 81
Mean 2513
Std Dev 2465

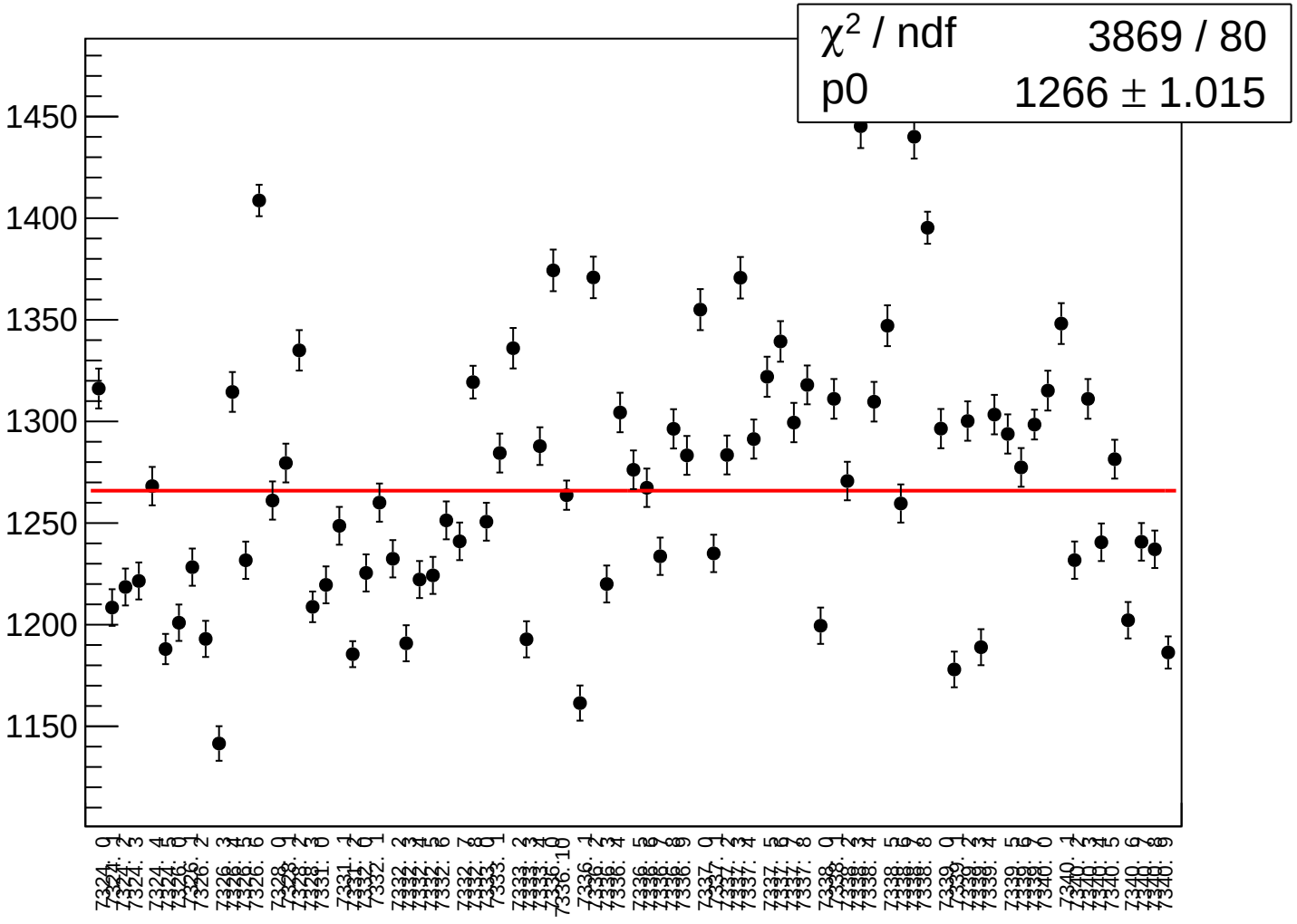

pull1D
Entries 81
Mean −0.0008519
Std Dev 0.8325

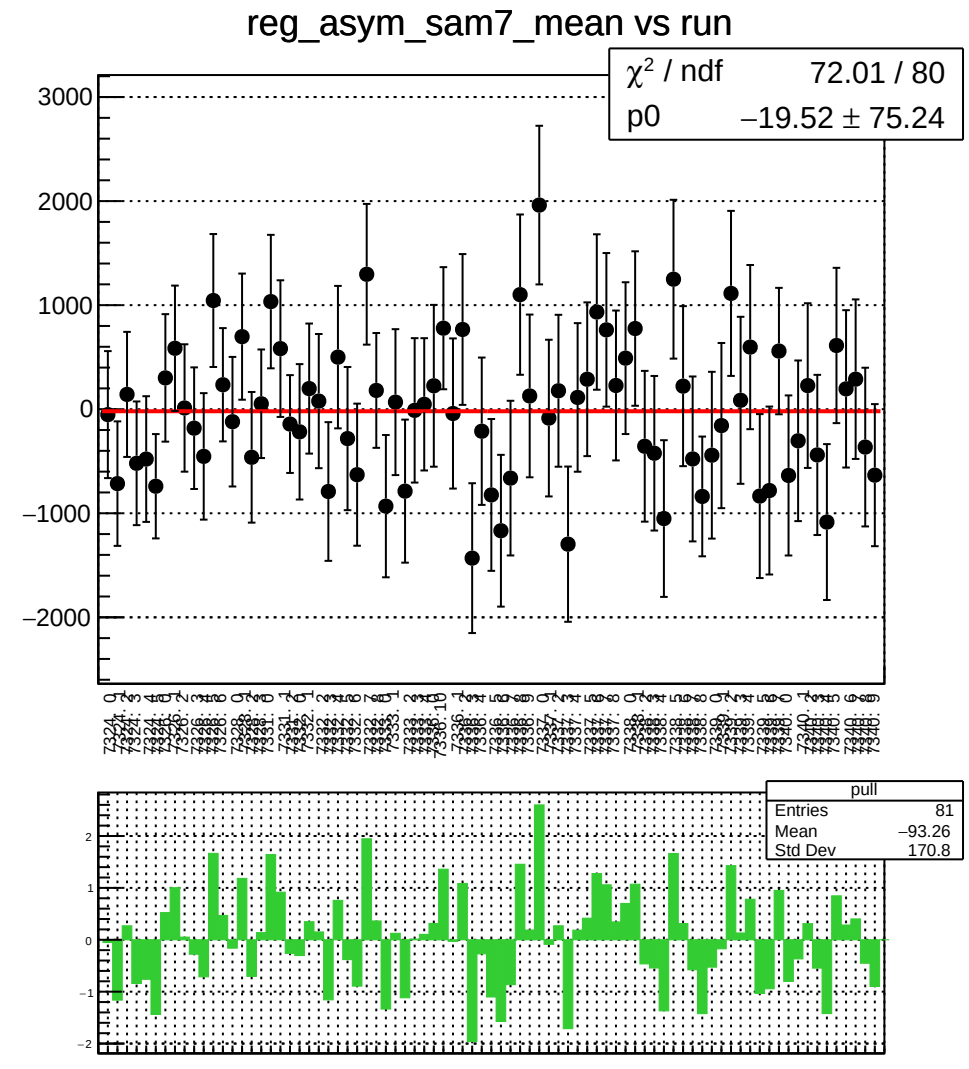

reg_asym_sam6_rms vs run
χ² / ndf 5125 / 80
p0 178.2 ± 0.1429
200
195
190
185
180
175
170
165

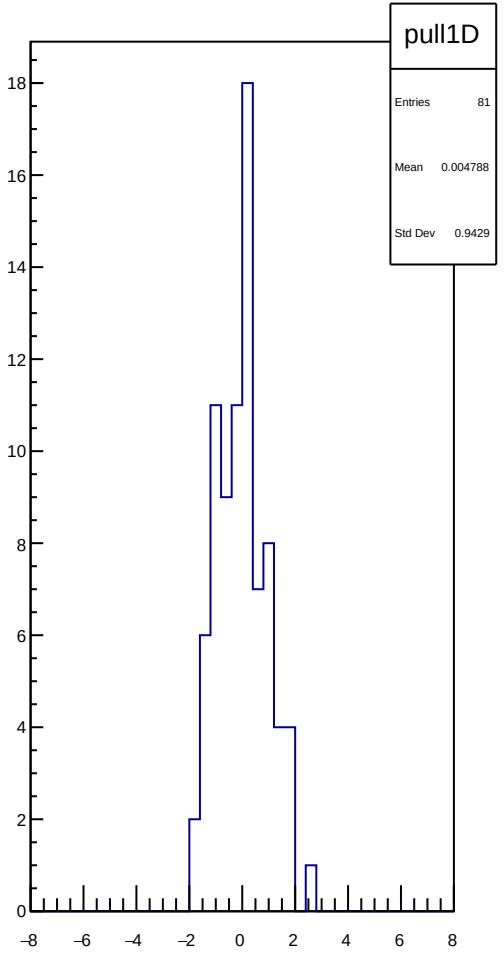

asym_sam6_correction_mean vs run
χ² / ndf 94.92 / 80
p0 614.1 ± 1435
60000
40000
20000
0
−20000
−40000
pull
Entries 81
Mean 35.71
Std Dev 116.5
2
1
0
−1
−2

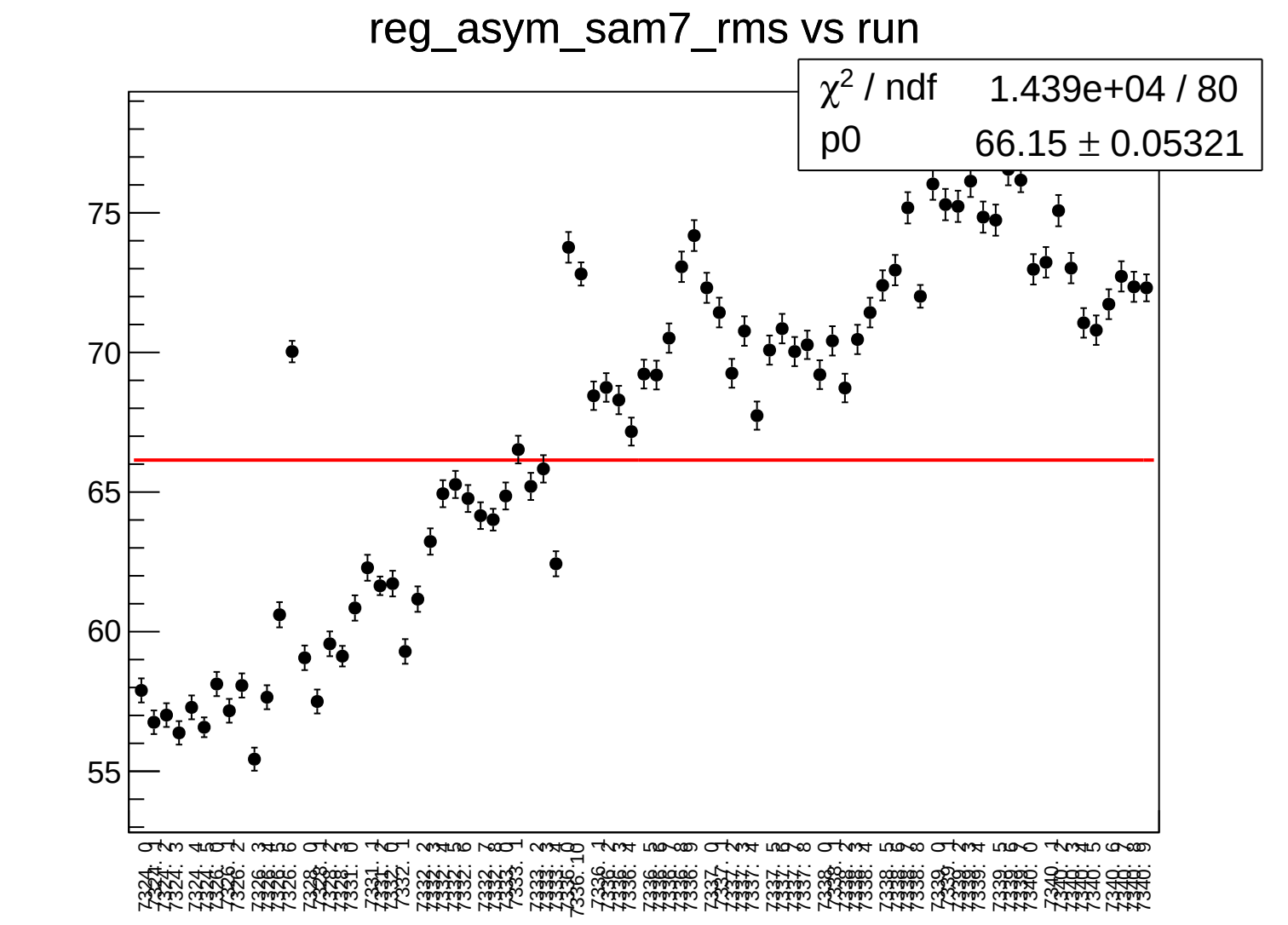

pull1D
Entries 81
Mean −0.004692
Std Dev 1.083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

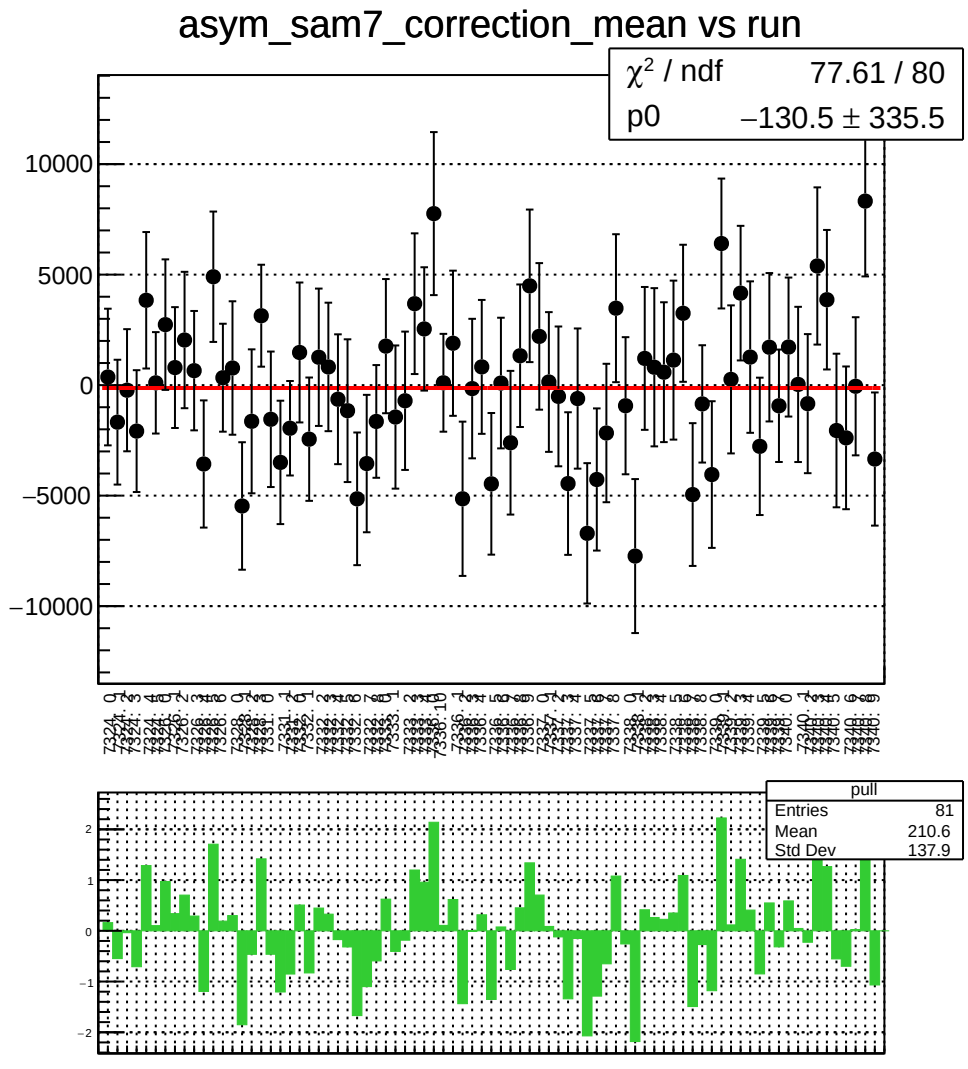
asym_sam6_correction_rms vs run

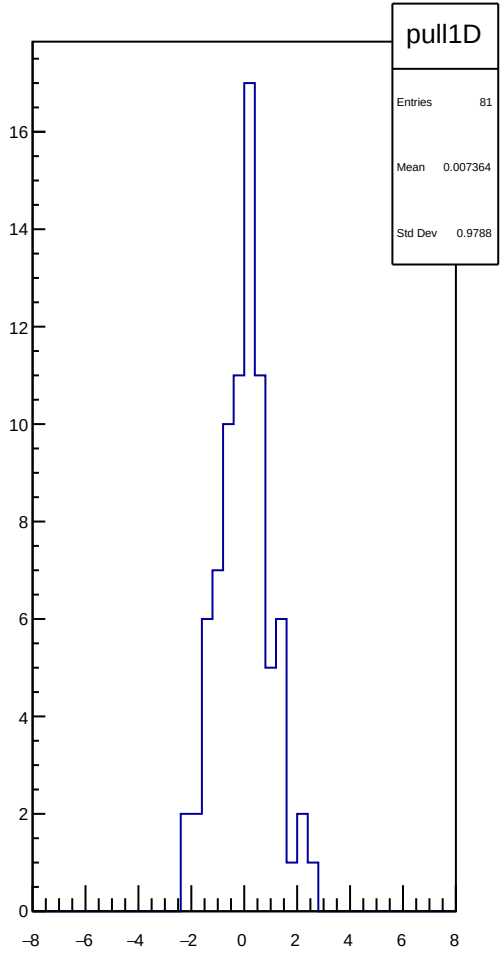


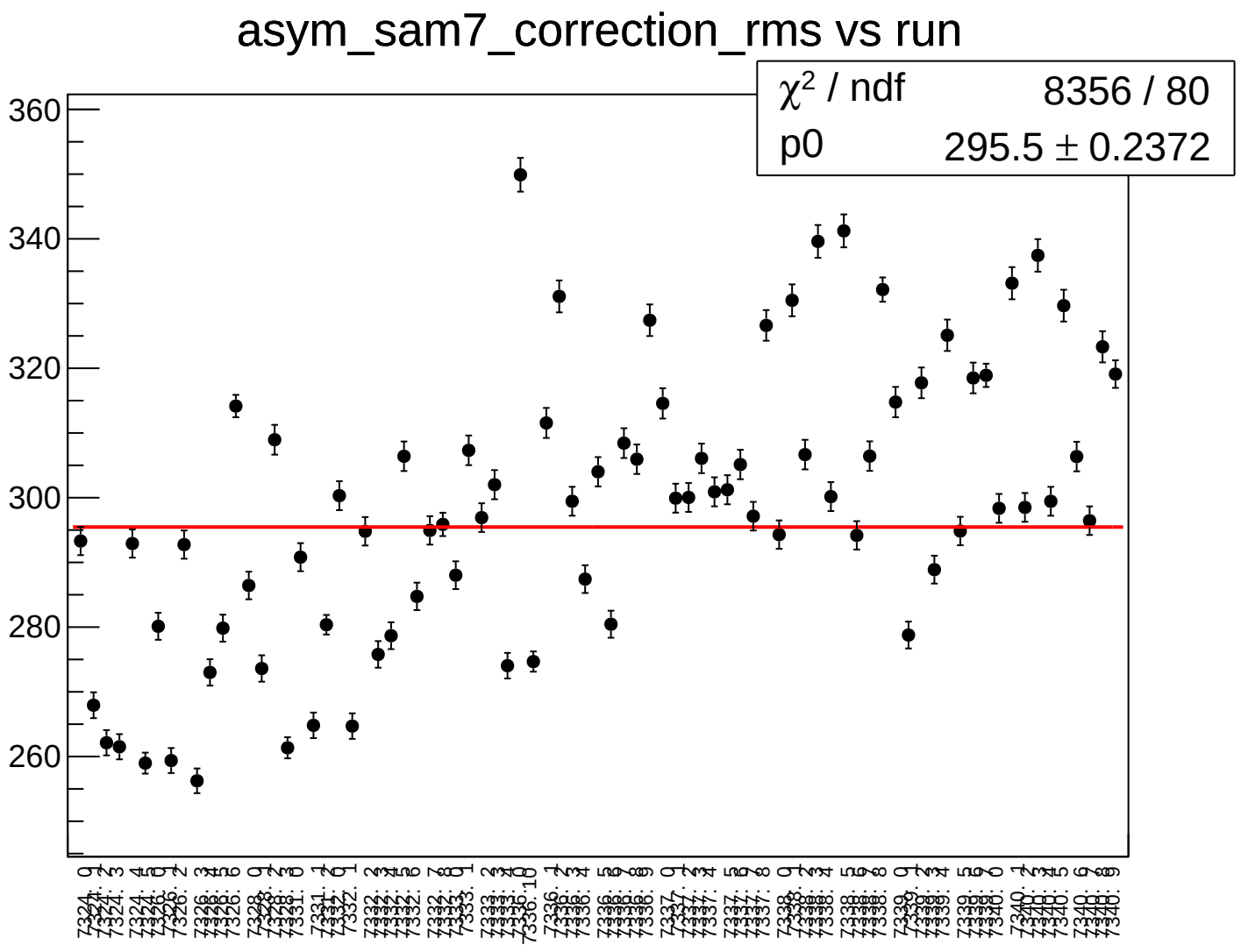

reg_asym_sam7_mean vs run
χ² / ndf 72.01 / 80
p0 −19.52 ± 75.24
pull
Entries 81
Mean −93.26
Std Dev 170.8

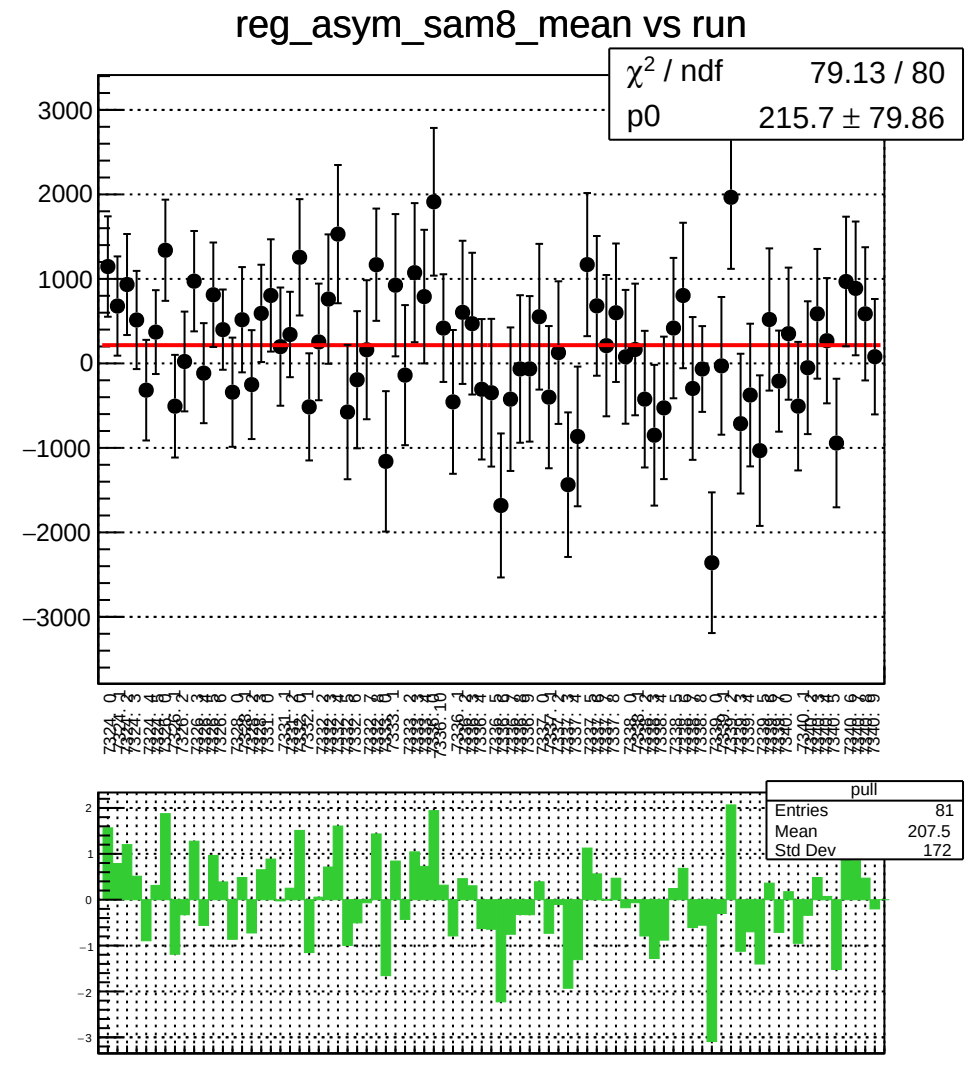

pull1D
Entries 81
Mean 0.004788
Std Dev 0.9429

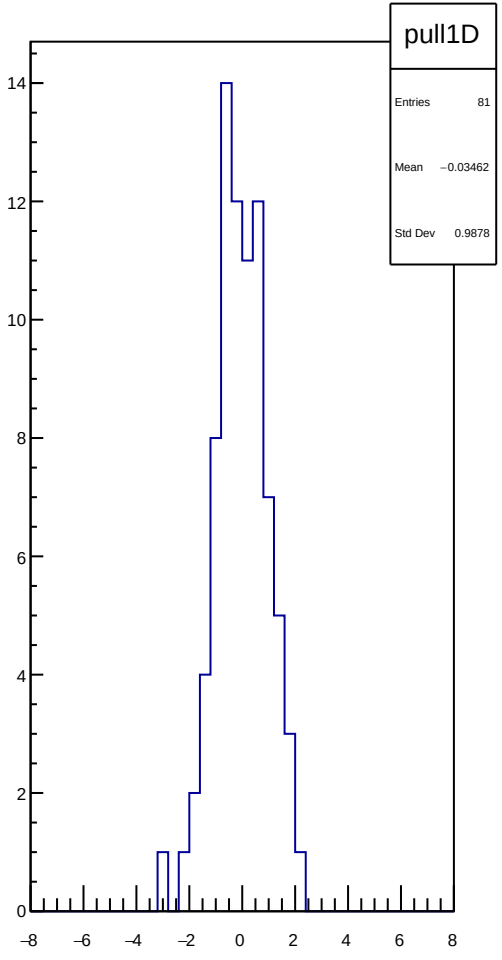

reg_asym_sam7_rms vs run
χ^2 / ndf 1.439e+04 / 80
p0 66.15 ± 0.05321
75
70
65
60
55

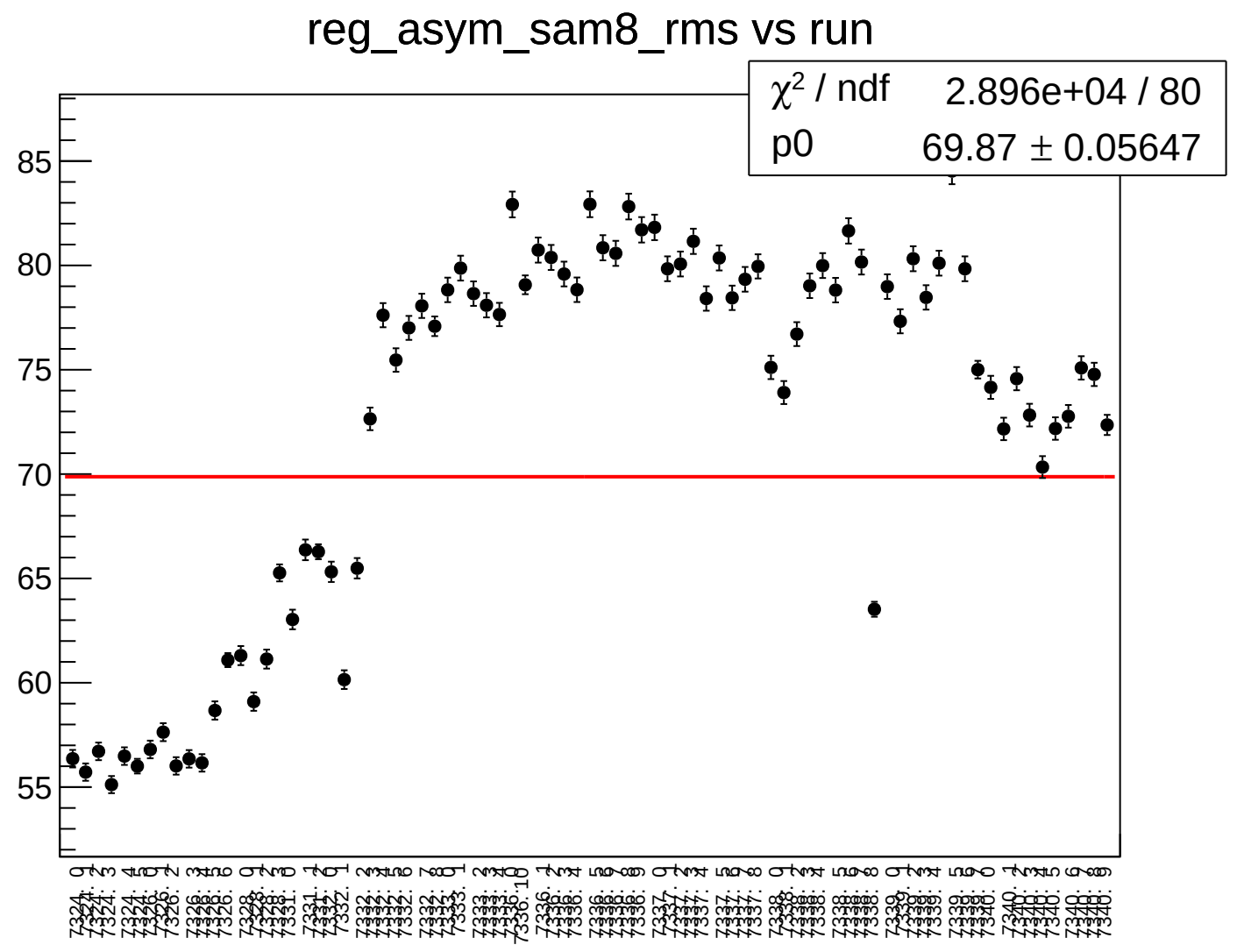

asym_sam7_correction_mean vs run
χ² / ndf 77.61 / 80
p0 −130.5 ± 335.5
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 210.6
Std Dev 137.9
2
1
0
−1
−2

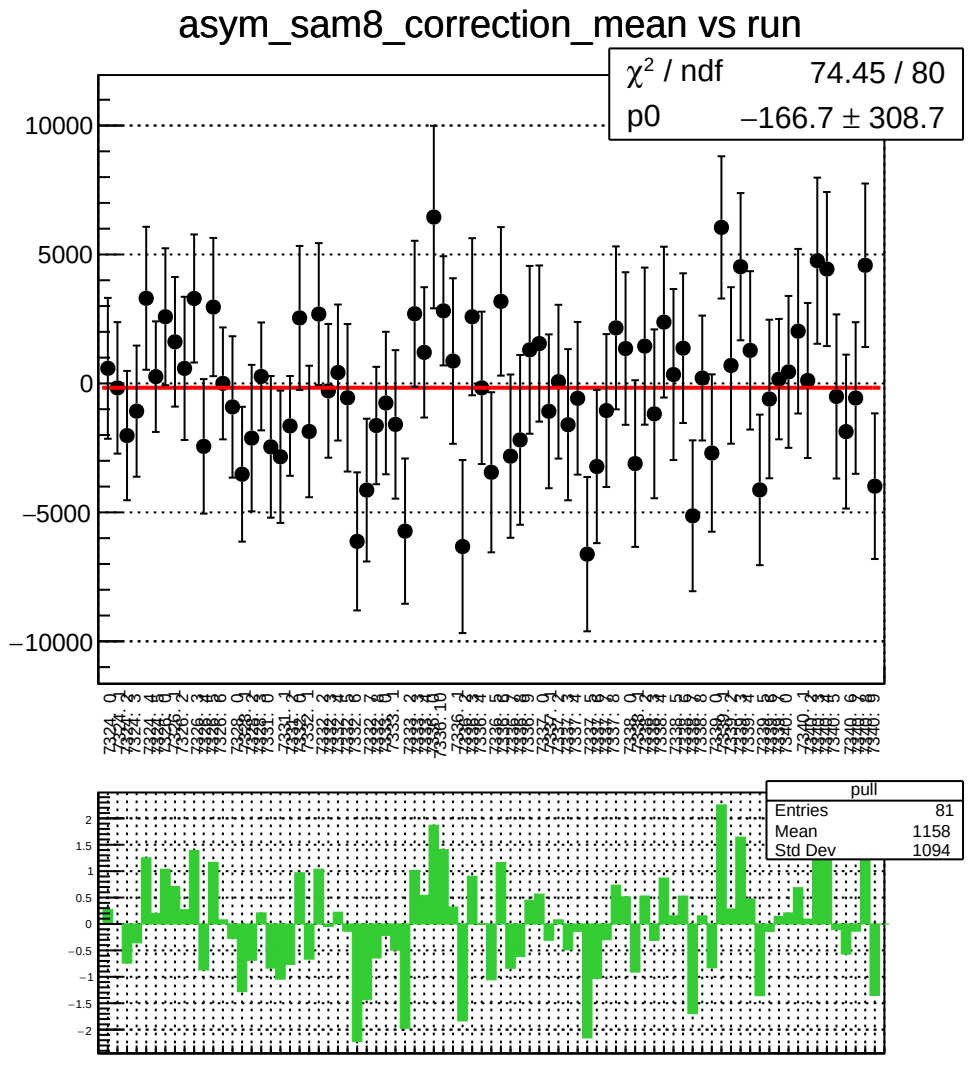

pull1D
Entries 81
Mean 0.007364
Std Dev 0.9788
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

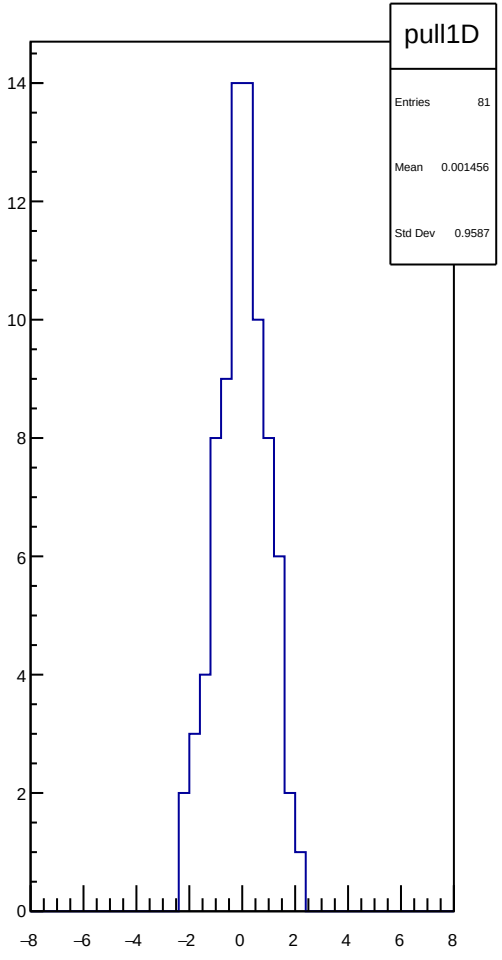

asym_sam7_correction_rms vs run
χ² / ndf 8356 / 80
p0 295.5 ± 0.2372
360
340
320
300
280
260

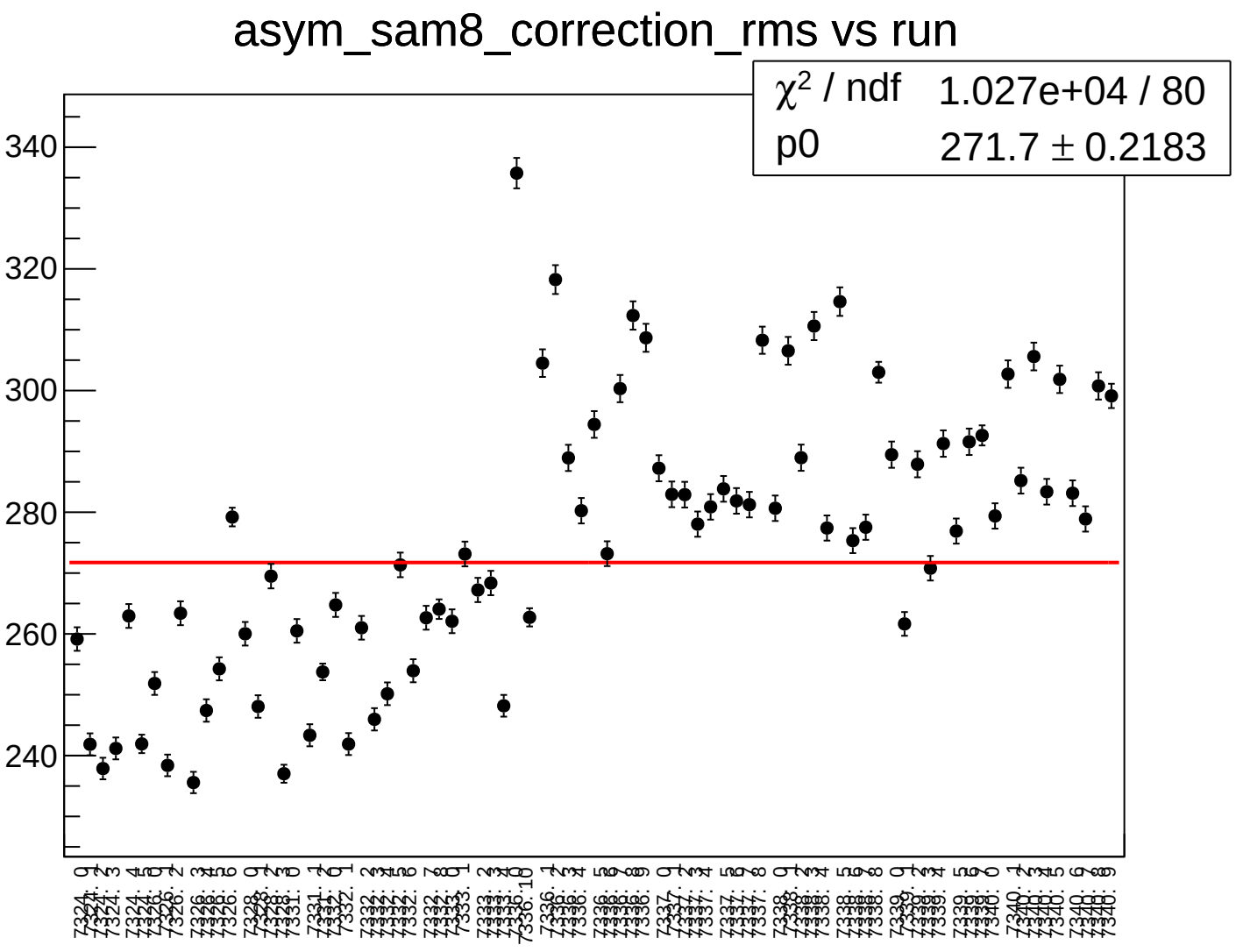

reg_asym_sam8_mean vs run
χ² / ndf 79.13 / 80
p0 215.7 ± 79.86
pull
Entries 81
Mean 207.5
Std Dev 172

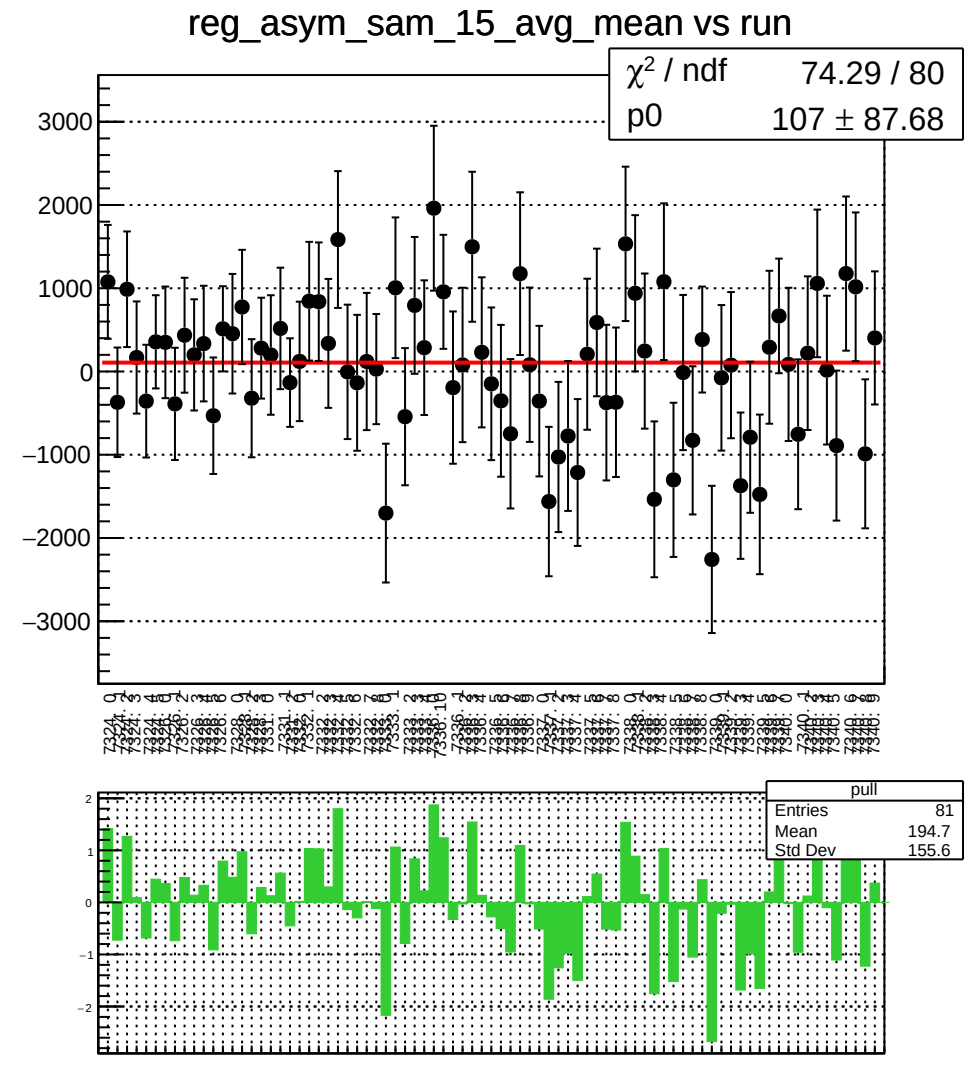

pull1D
Entries 81
Mean −0.03462
Std Dev 0.9878

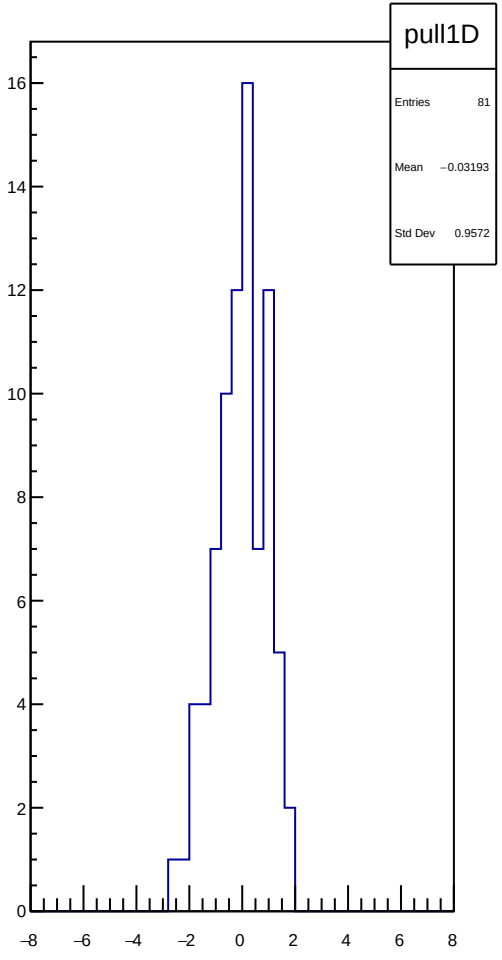

reg_asym_sam8_rms vs run
χ^2 / ndf 2.896e+04 / 80
p0 69.87 ± 0.05647
85
80
75
70
65
60
55

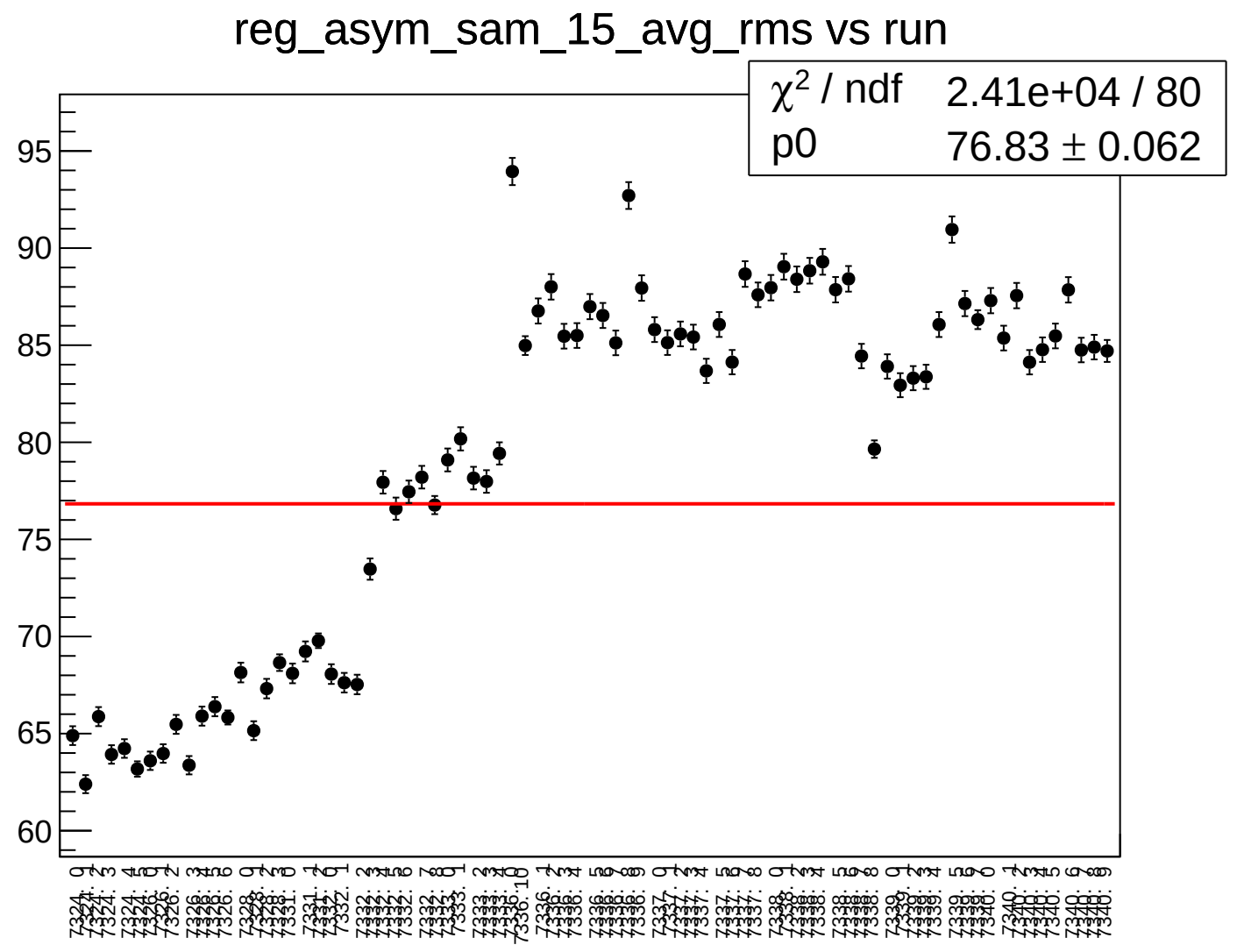

asym_sam8_correction_mean vs run
χ² / ndf 74.45 / 80
p0 −166.7 ± 308.7
pull
Entries 81
Mean 1158
Std Dev 1094

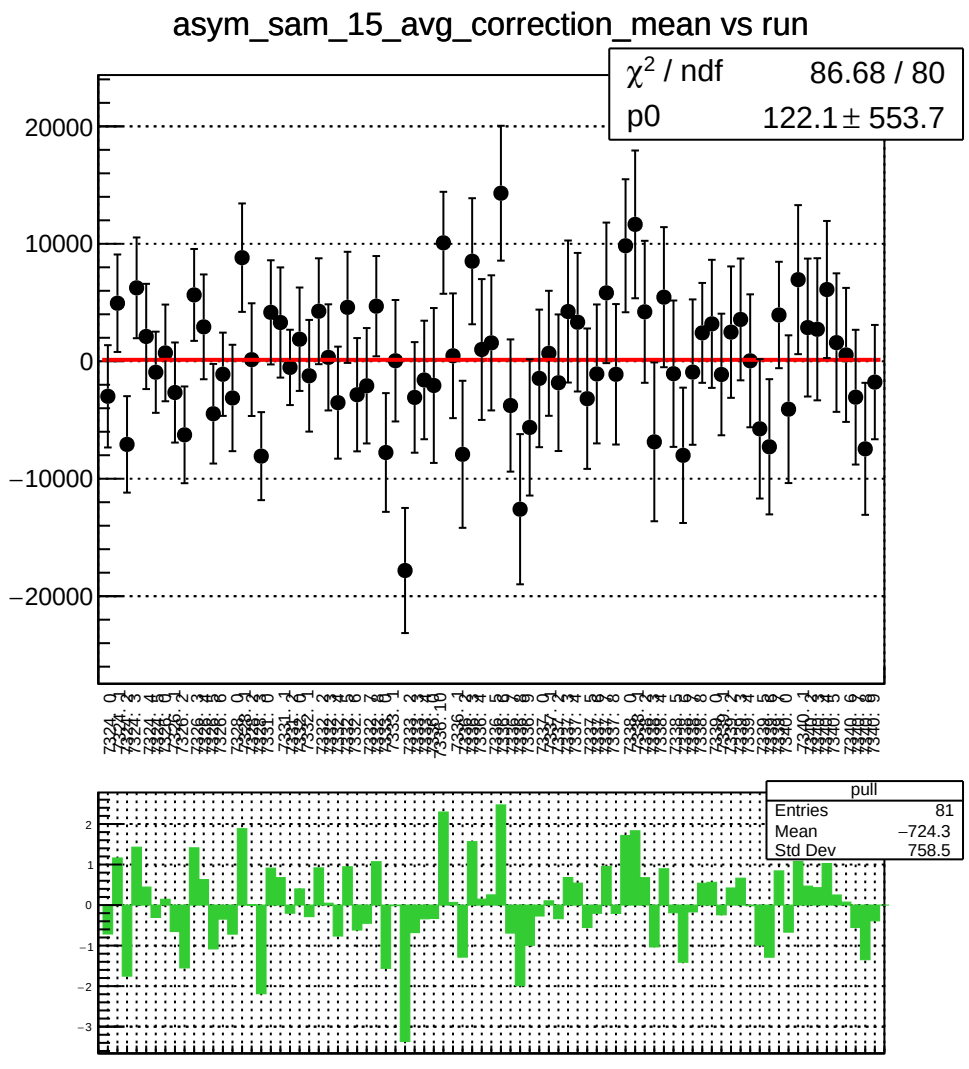

pull1D
Entries 81
Mean 0.001456
Std Dev 0.9587

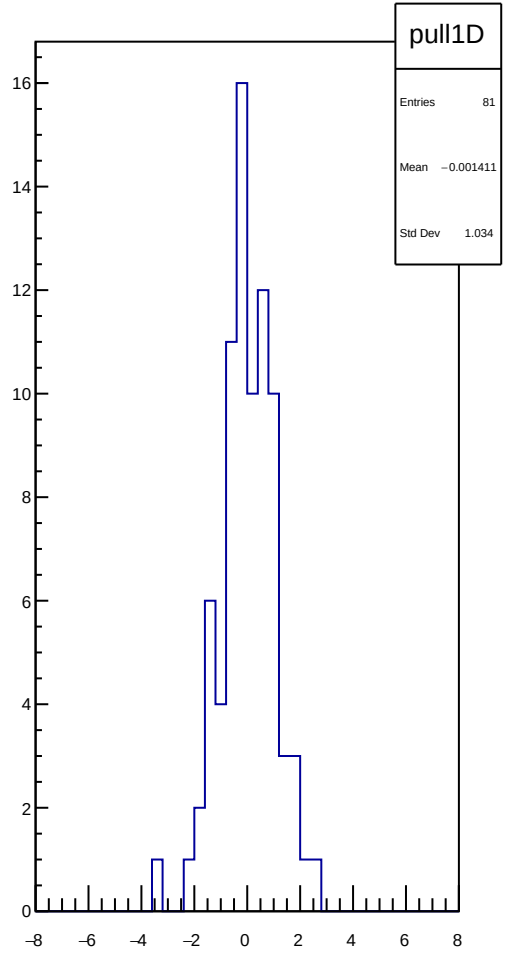

asym_sam8_correction_rms vs run
χ² / ndf 1.027e+04 / 80
p0 271.7 ± 0.2183
340
320
300
280
260
240

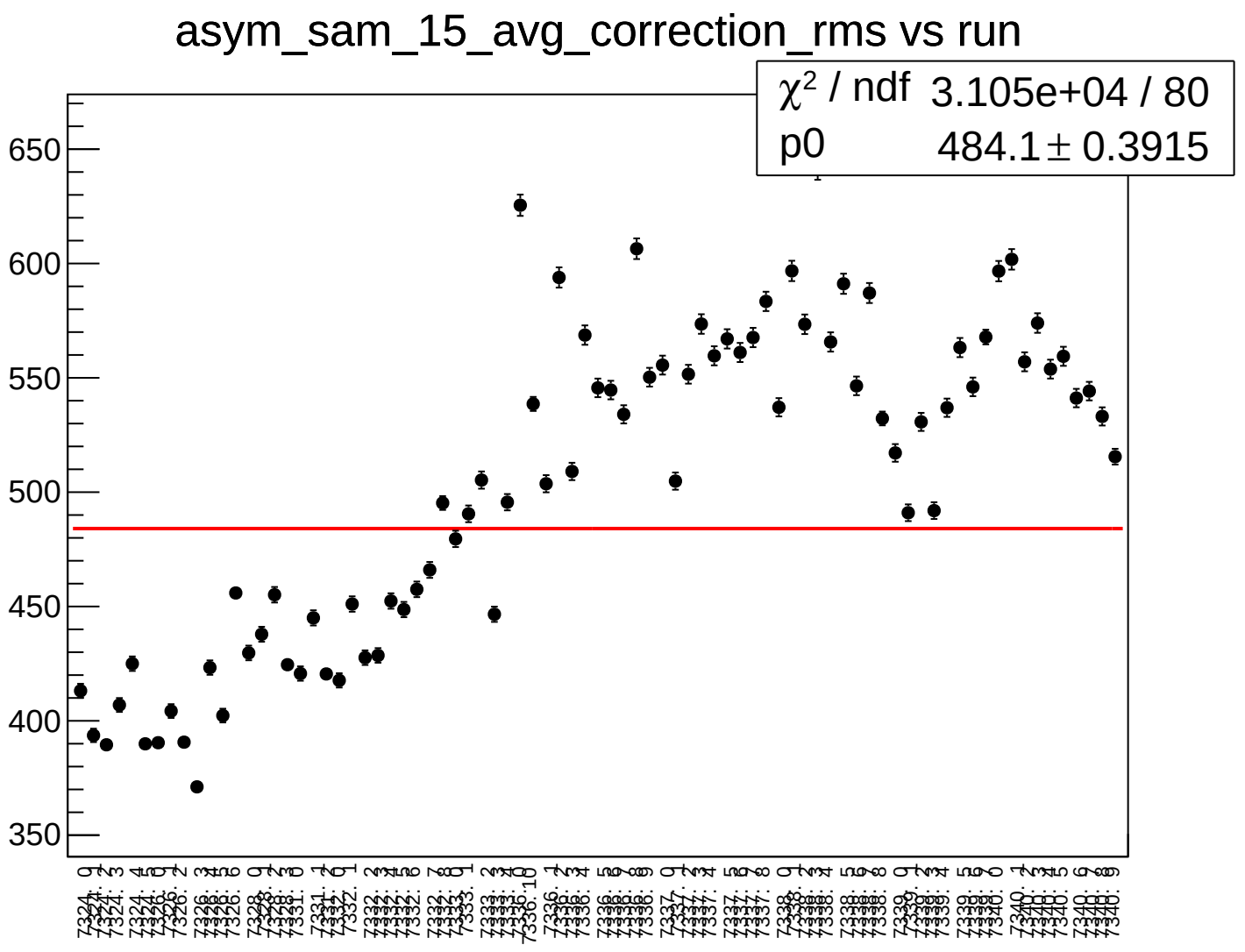

reg_asym_sam_15_avg_mean vs run
χ² / ndf 74.29 / 80
p0 107 ± 87.68
pull
Entries 81
Mean 194.7
Std Dev 155.6

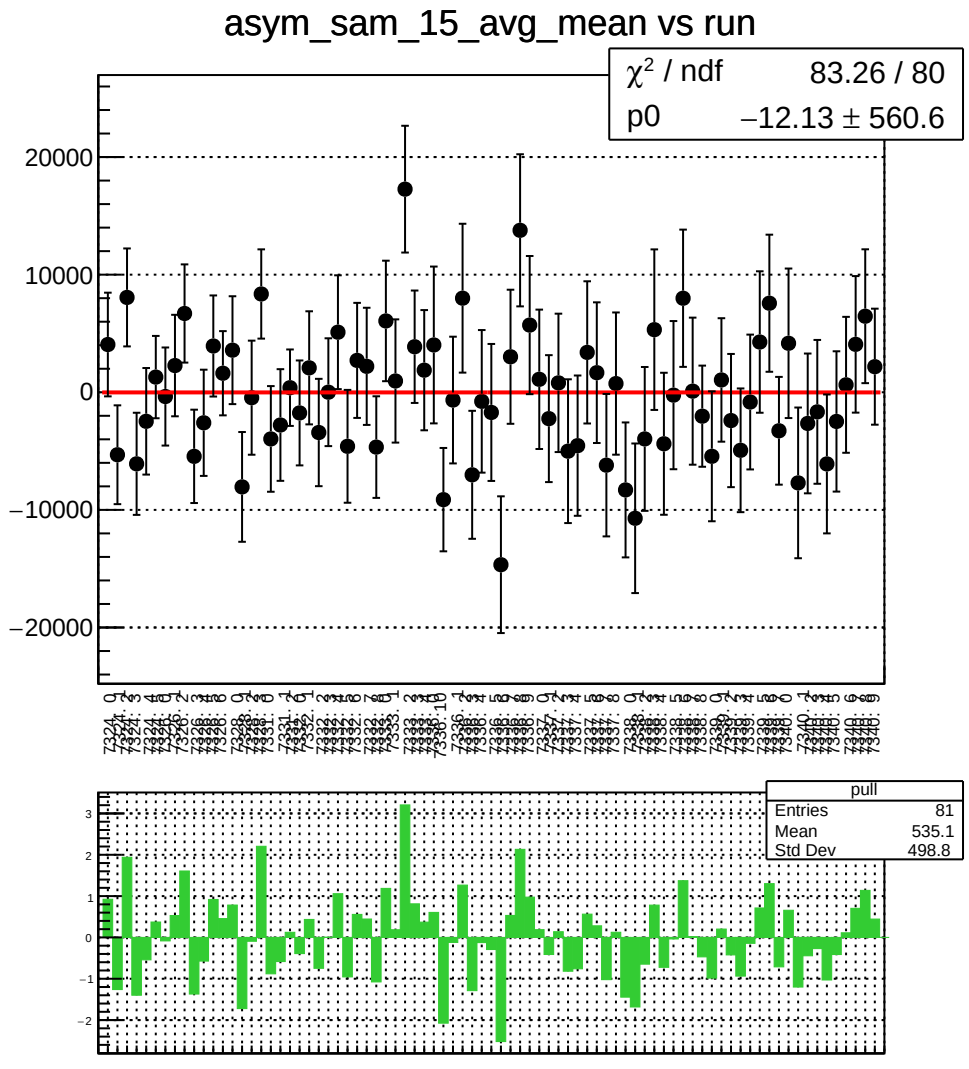

pull1D
Entries 81
Mean −0.03193
Std Dev 0.9572

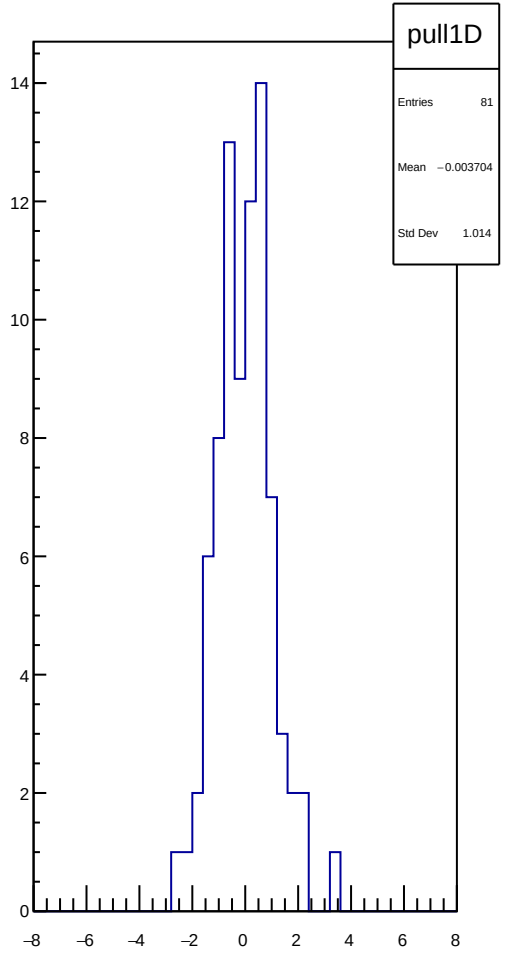

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 2.41e+04 / 80
p0 76.83 ± 0.062
95
90
85
80
75
70
65
60

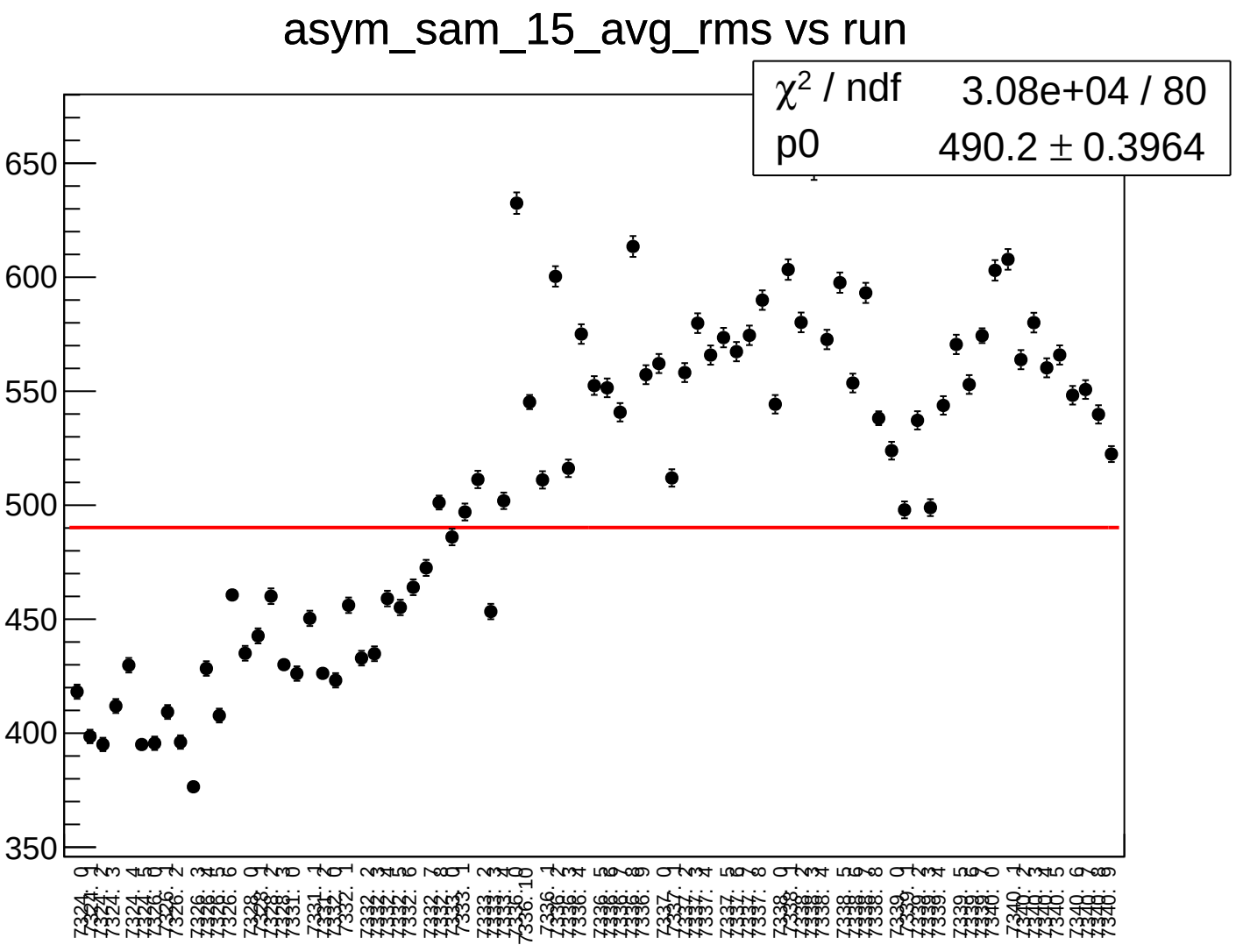

asym_sam_15_avg_correction_mean vs run
χ² / ndf 86.68 / 80
p0 122.1 ± 553.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −724.3
Std Dev 758.5
2
1
0
−1
−2
−3

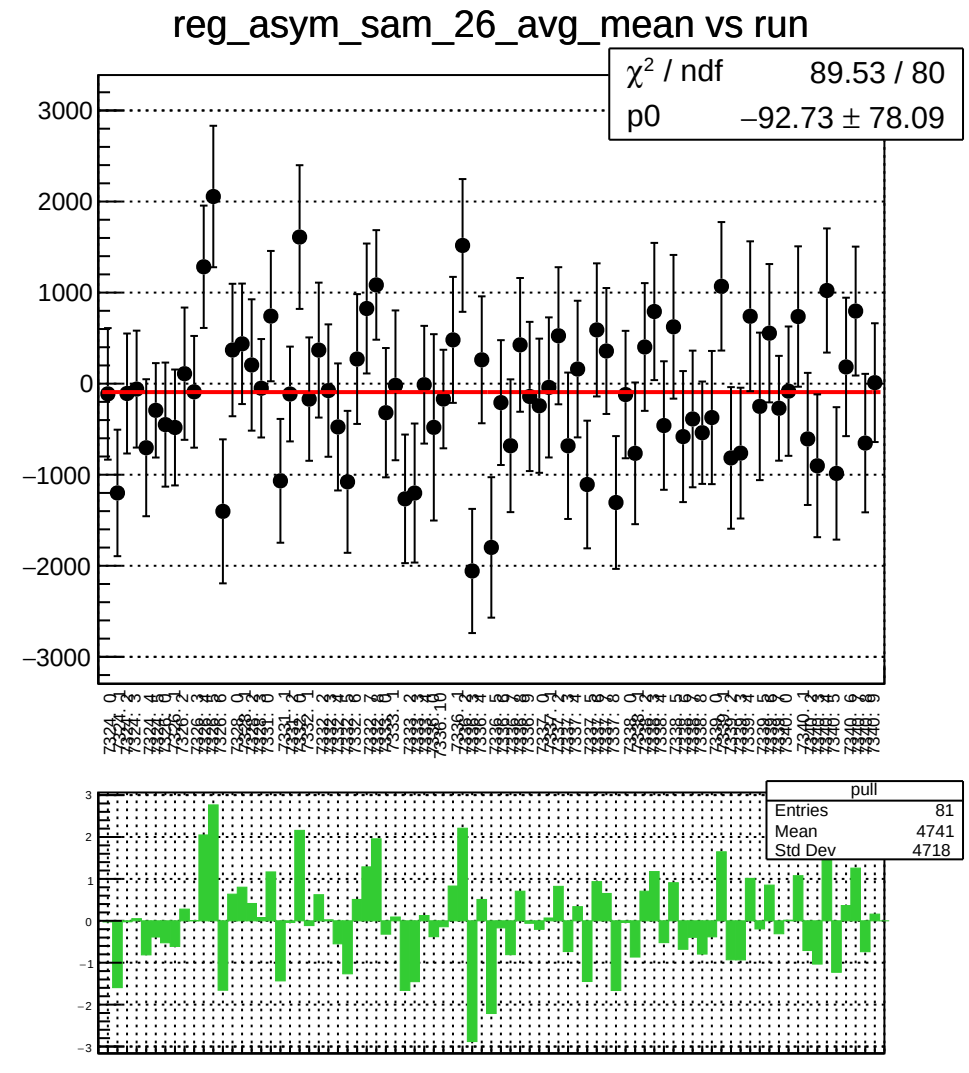

pull1D
Entries 81
Mean −0.001411
Std Dev 1.034
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

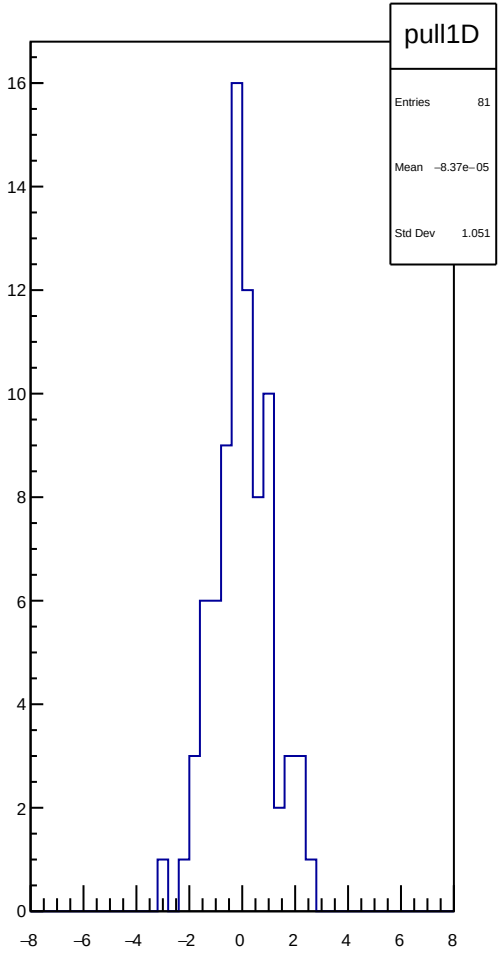

asym_sam_15_avg_correction_rms vs run
χ² / ndf 3.105e+04 / 80
p0 484.1 ± 0.3915
650
600
550
500
450
400
350

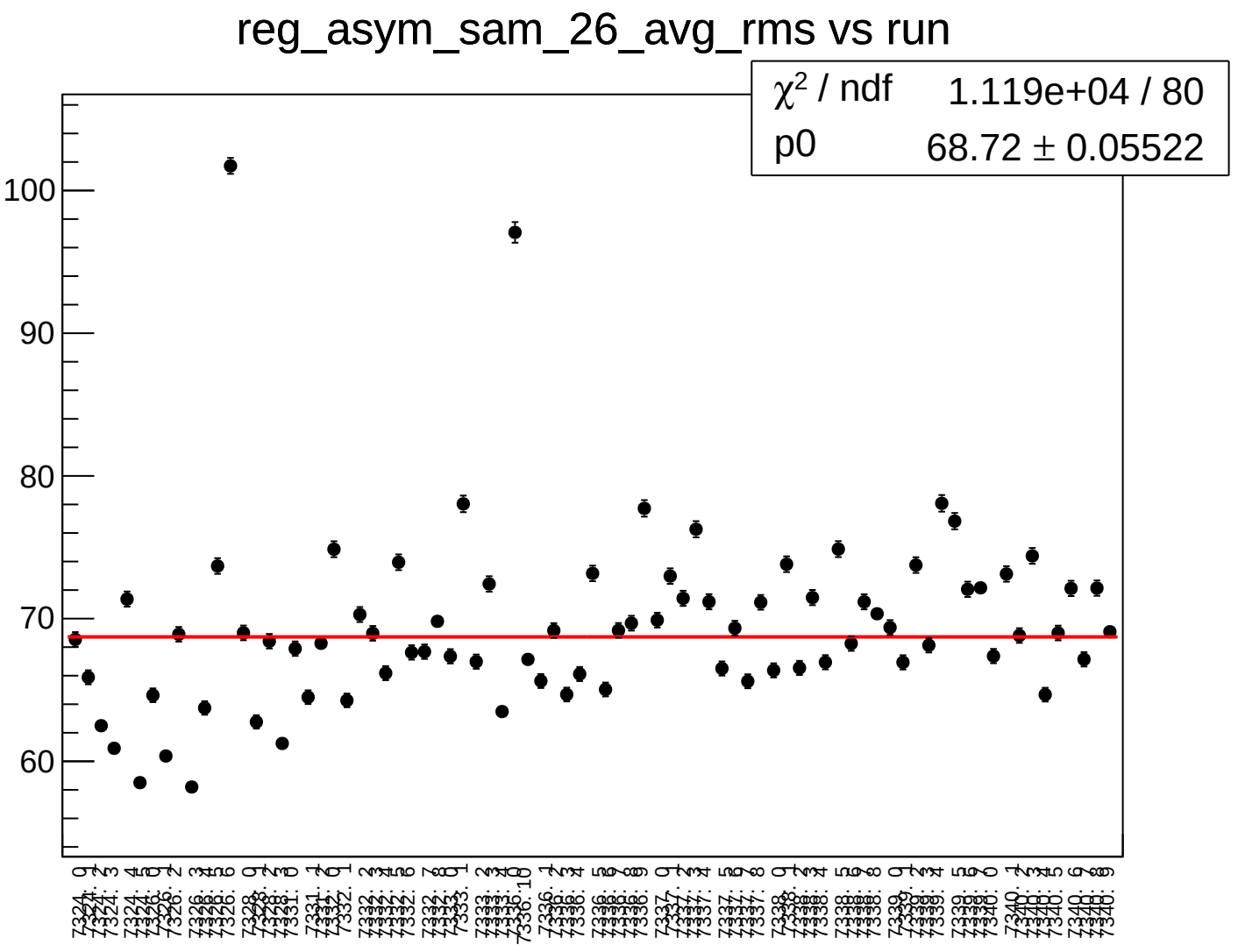

asym_sam_15_avg_mean vs run
χ² / ndf 83.26 / 80
p0 −12.13 ± 560.6
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 535.1
Std Dev 498.8
3
2
1
0
−1
−2

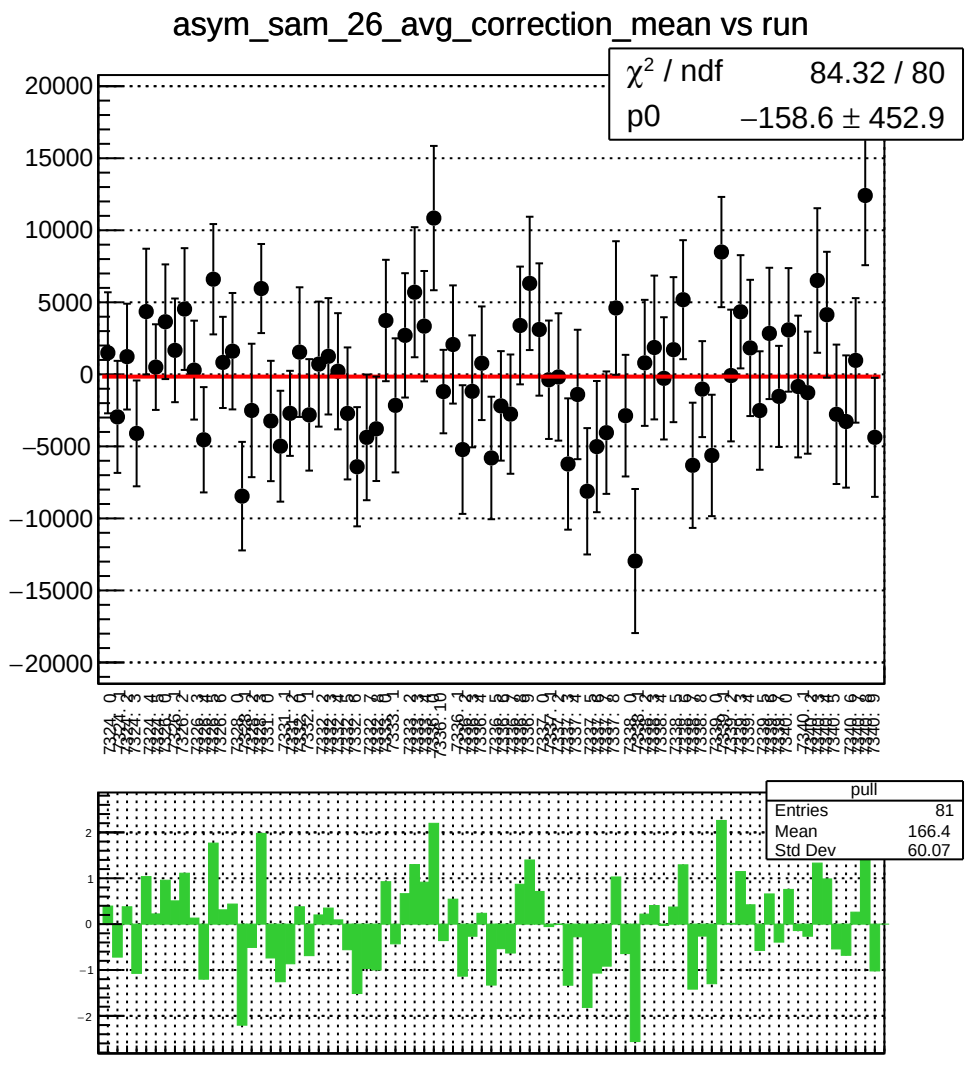

pull1D
Entries 81
Mean −0.003704
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

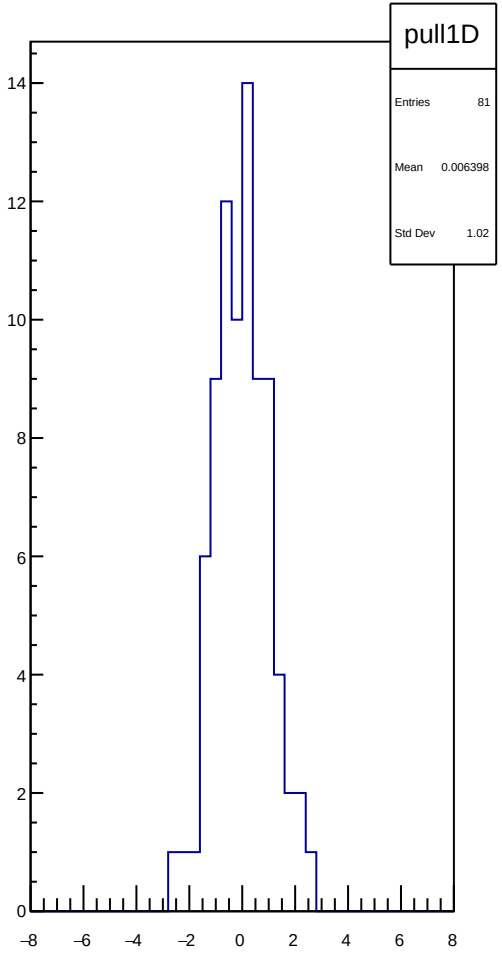

asym_sam_15_avg_rms vs run
χ² / ndf 3.08e+04 / 80
p0 490.2 ± 0.3964
650
600
550
500
450
400
350

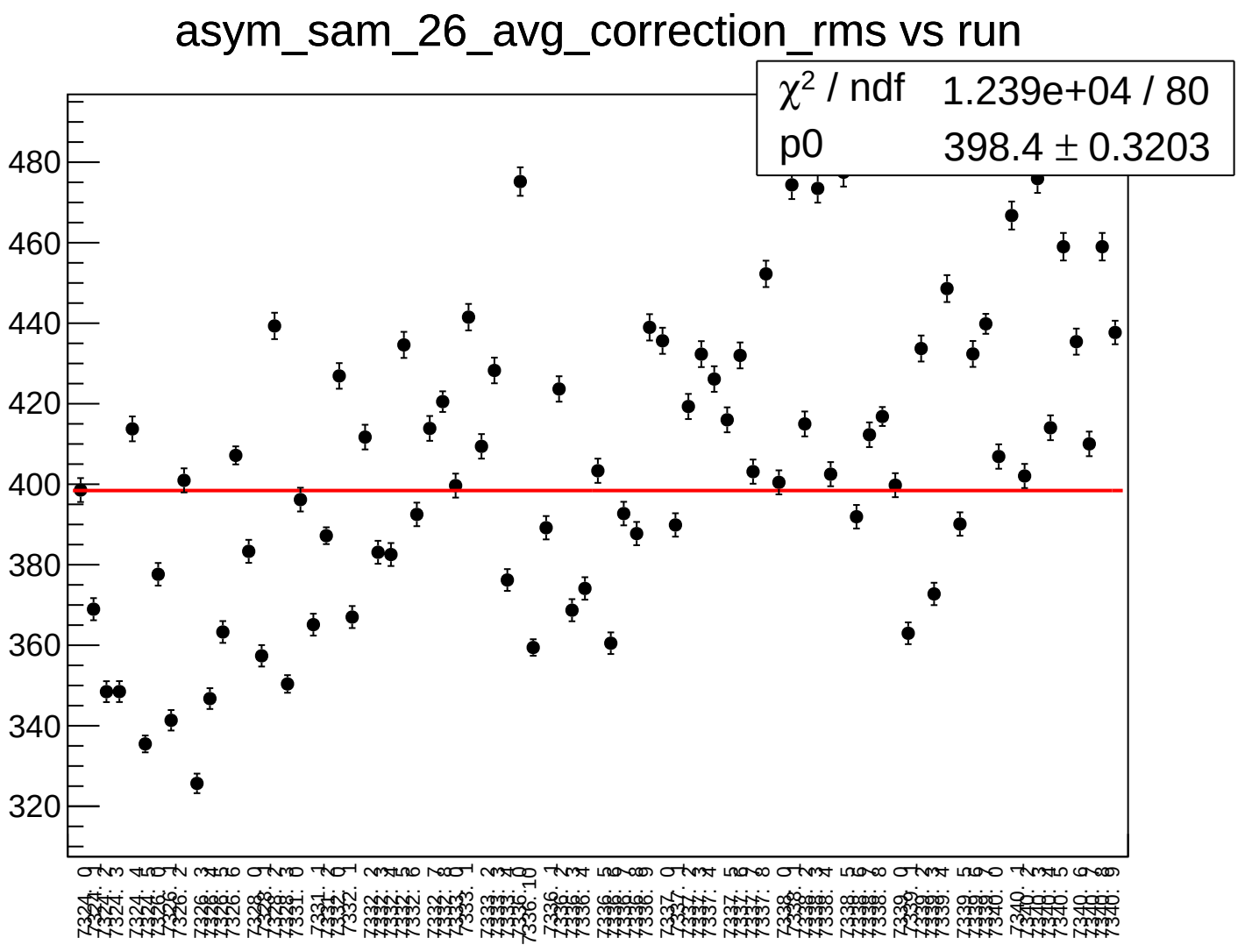

reg_asym_sam_26_avg_mean vs run
χ² / ndf 89.53 / 80
p0 −92.73 ± 78.09
pull
Entries 81
Mean 4741
Std Dev 4718

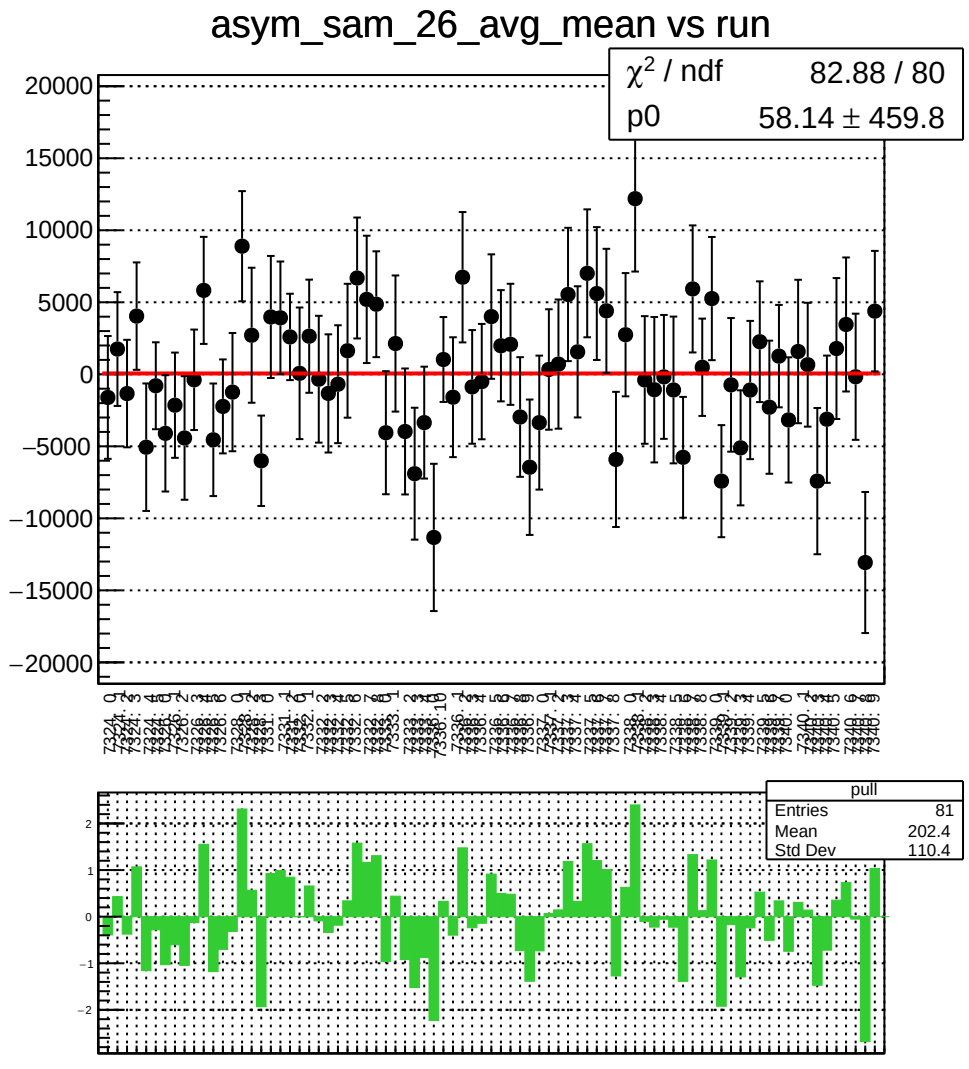

pull1D
Entries 81
Mean −8.37e−05
Std Dev 1.051

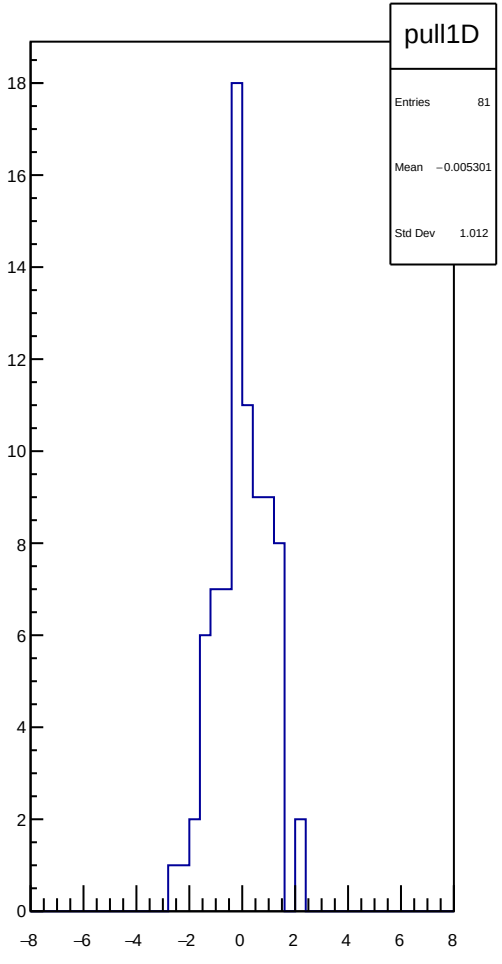

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 1.119e+04 / 80
p0 68.72 ± 0.05522
100
90
80
70
60

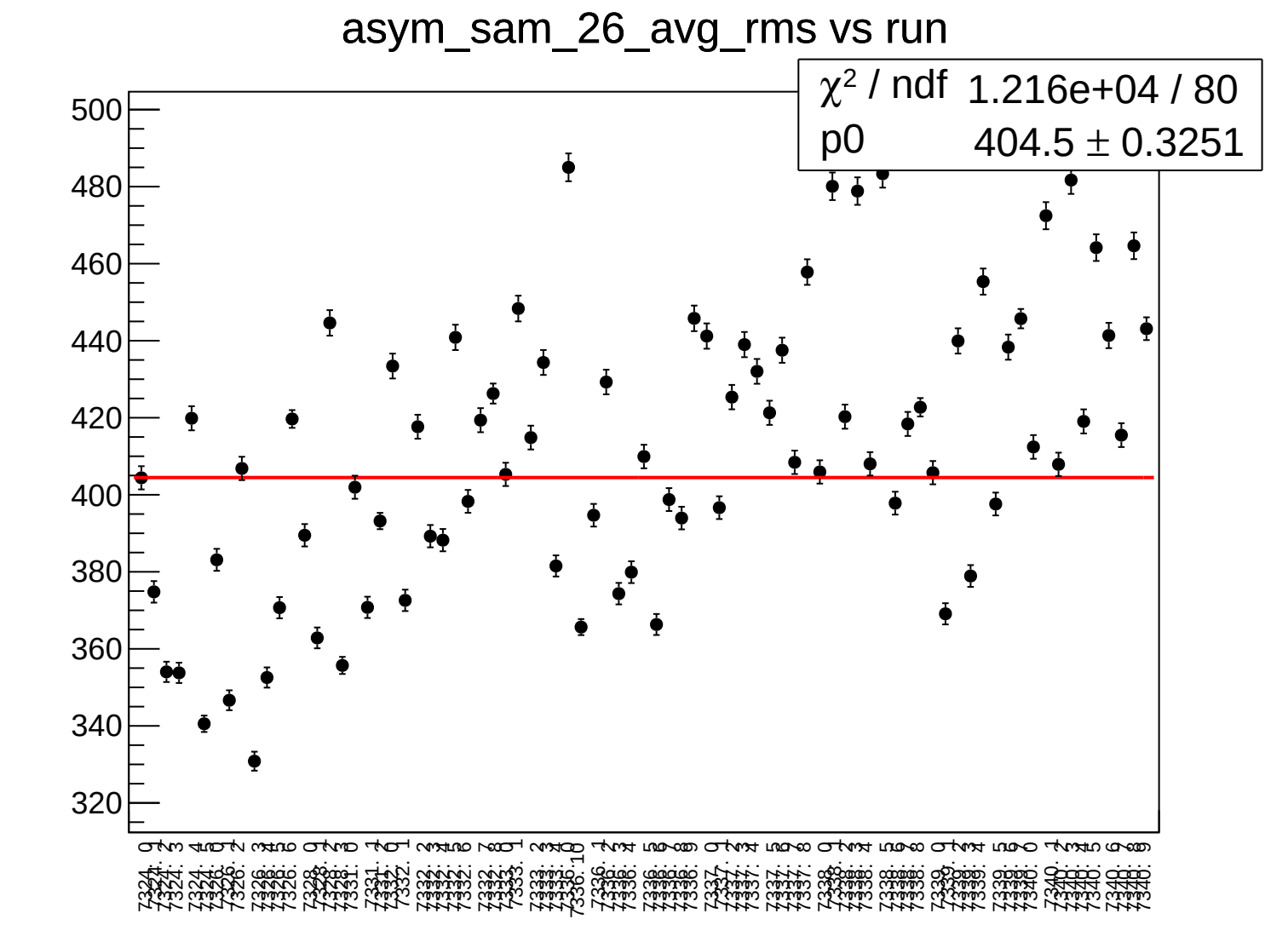

asym_sam_26_avg_correction_mean vs run
χ² / ndf 84.32 / 80
p0 −158.6 ± 452.9
pull
Entries 81
Mean 166.4
Std Dev 60.07

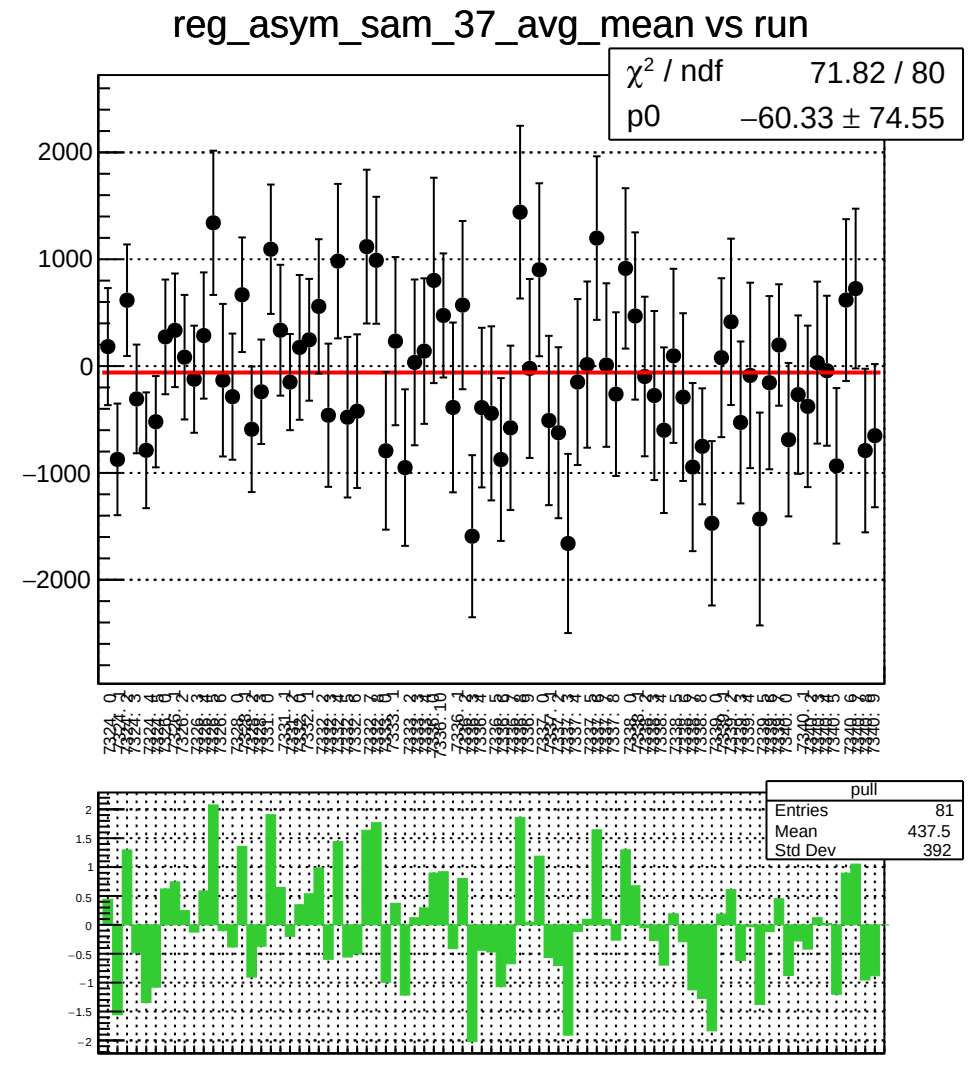

pull1D
Entries 81
Mean 0.006398
Std Dev 1.02

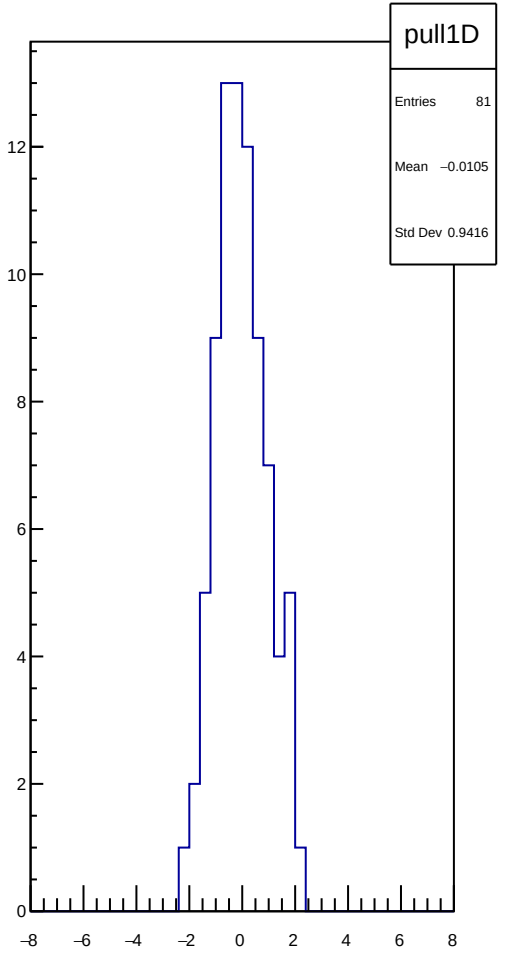

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.239e+04 / 80
p0 398.4 ± 0.3203
480
460
440
420
400
380
360
340
320

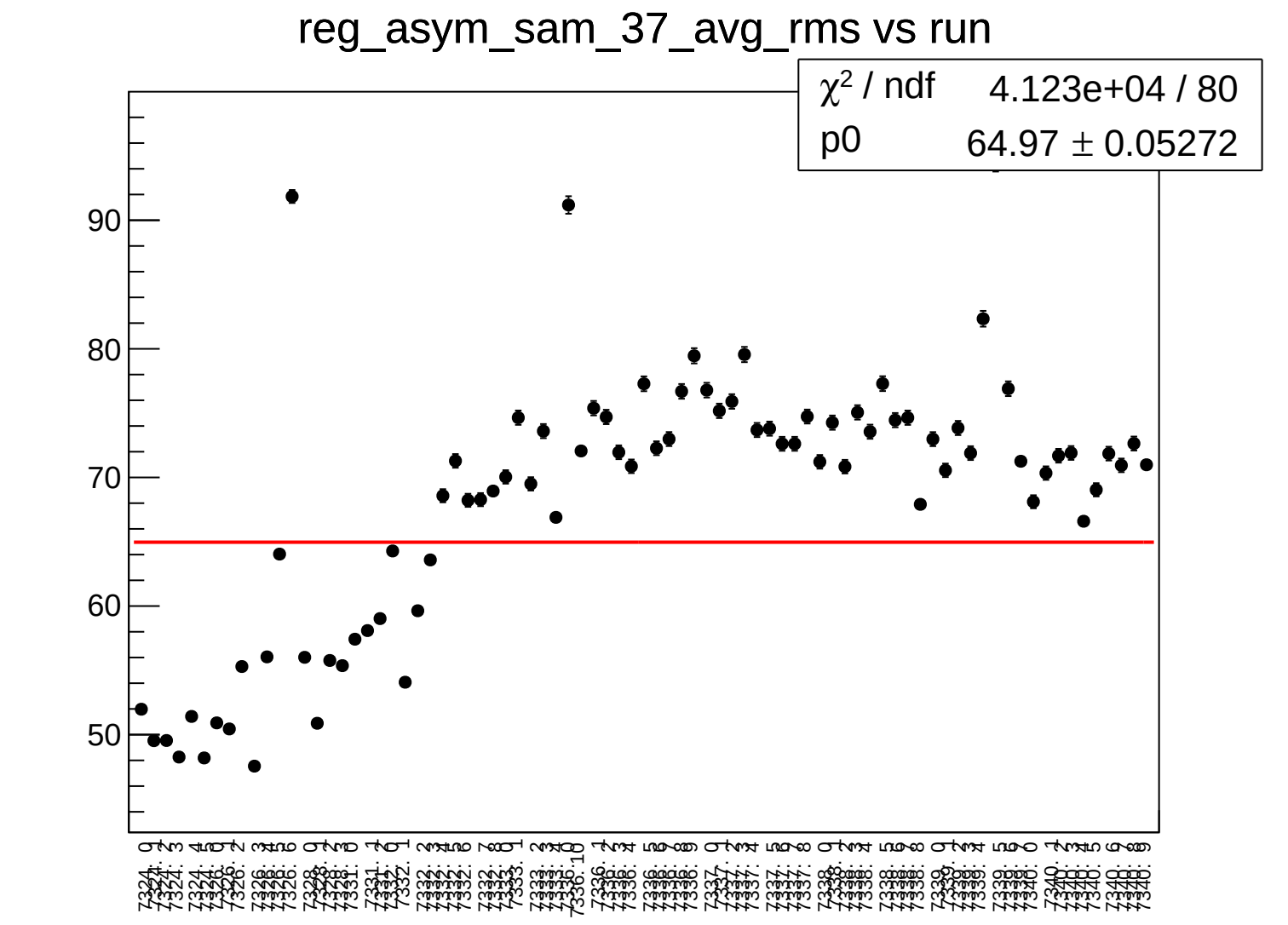

asym_sam_26_avg_mean vs run
χ² / ndf 82.88 / 80
p0 58.14 ± 459.8
pull
Entries 81
Mean 202.4
Std Dev 110.4

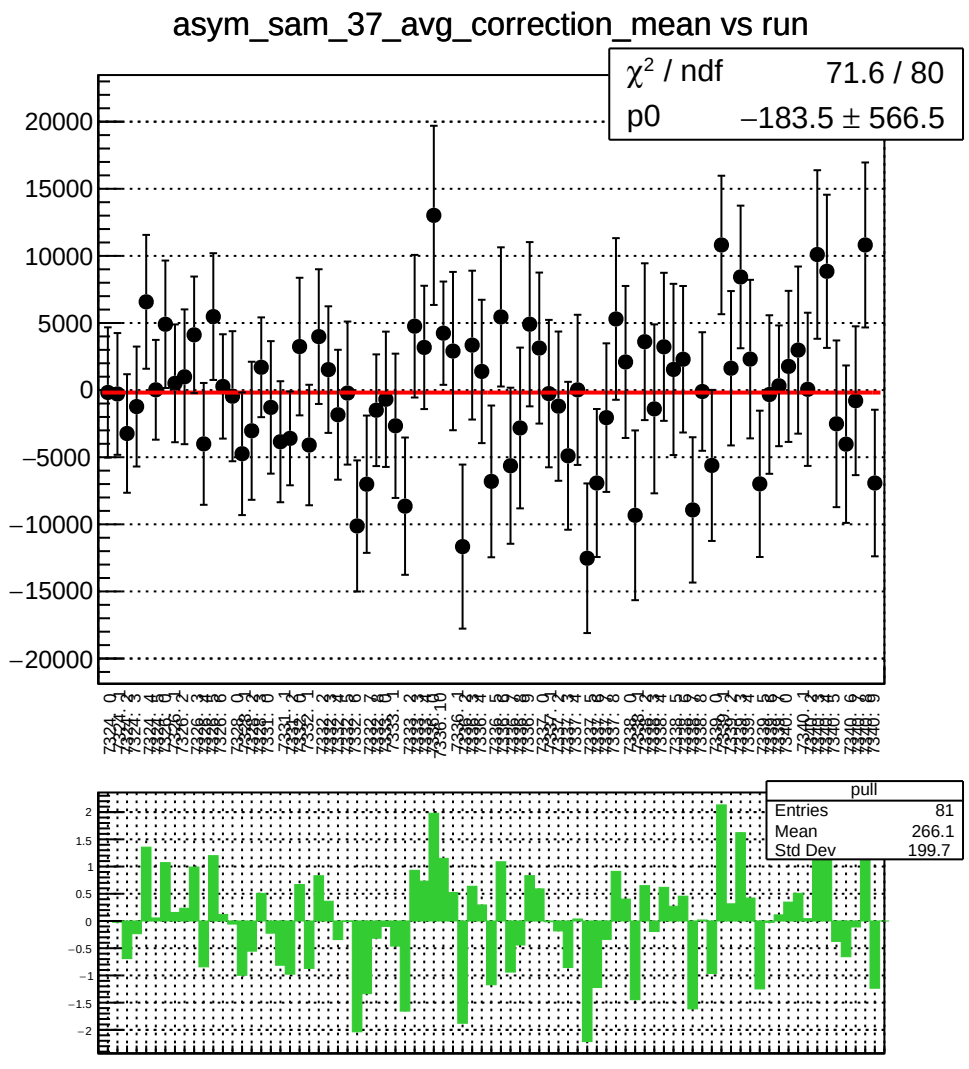

pull1D
Entries 81
Mean −0.005301
Std Dev 1.012

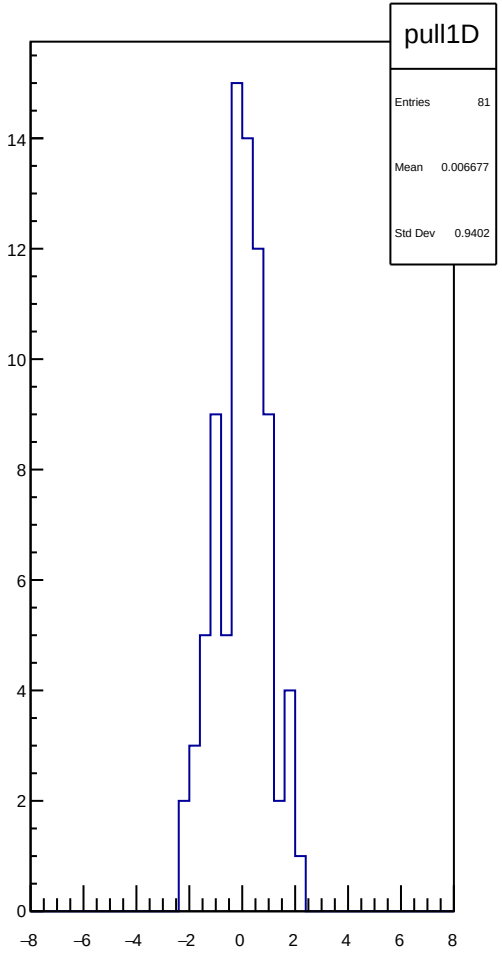

asym_sam_26_avg_rms vs run
χ² / ndf 1.216e+04 / 80
p0 404.5 ± 0.3251
500
480
460
440
420
400
380
360
340
320

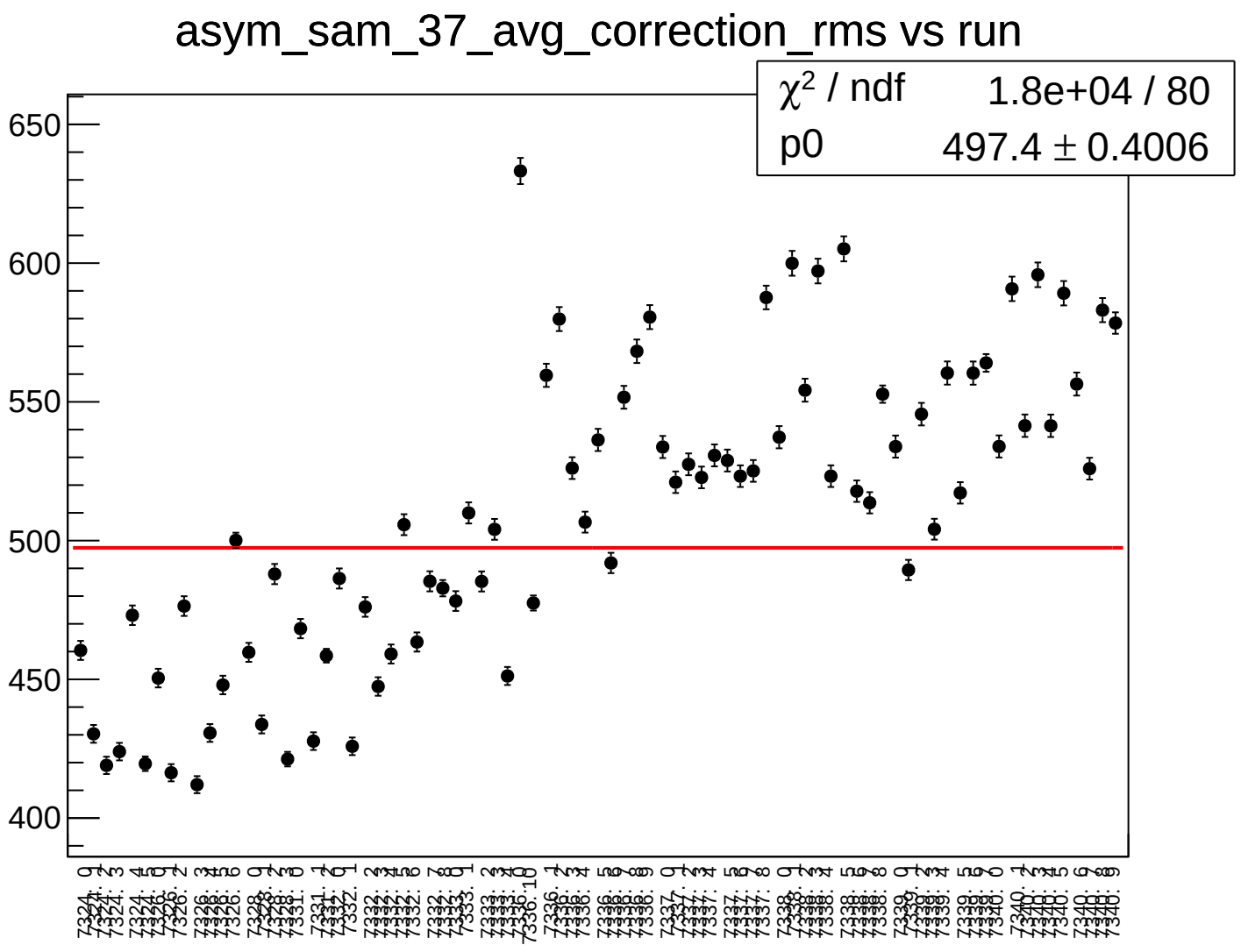

reg_asym_sam_37_avg_mean vs run
χ² / ndf 71.82 / 80
p0 −60.33 ± 74.55
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 437.5
Std Dev 392
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

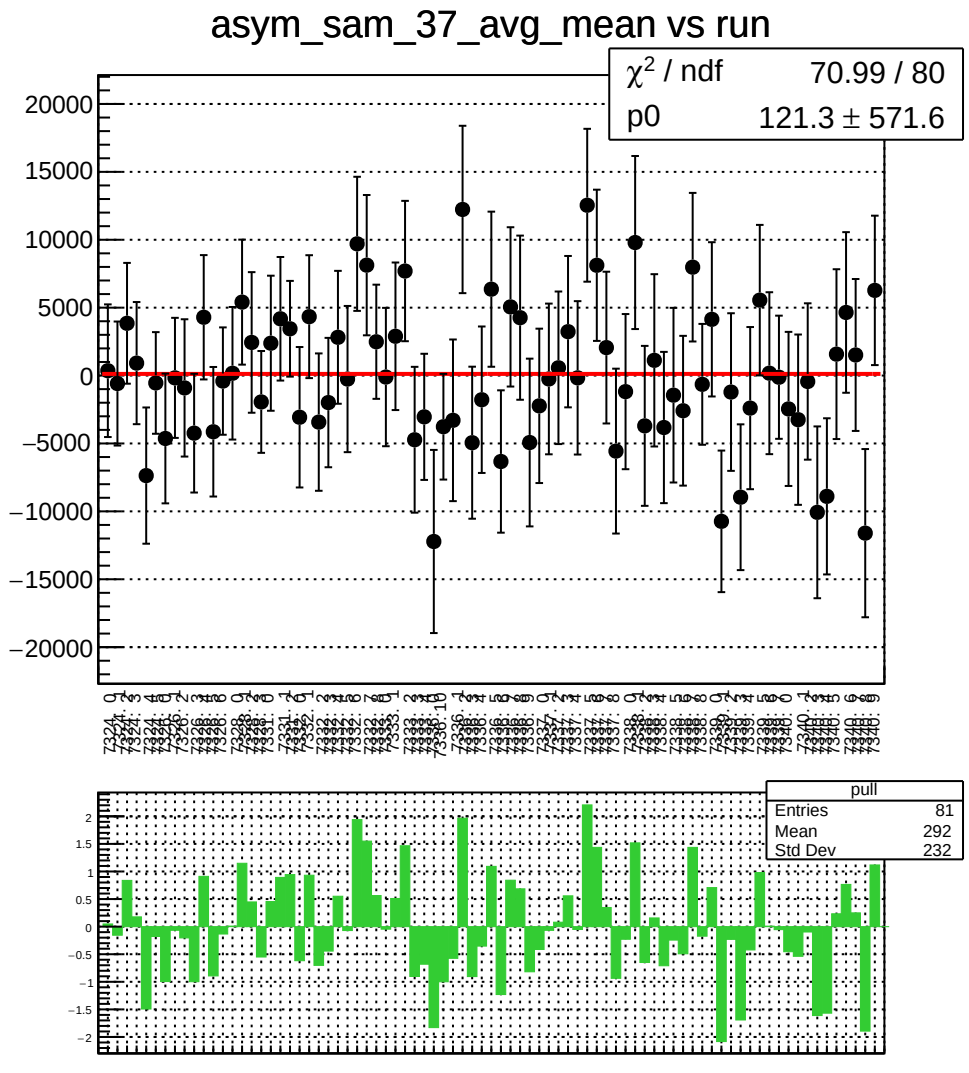

pull1D
Entries 81
Mean −0.0105
Std Dev 0.9416
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

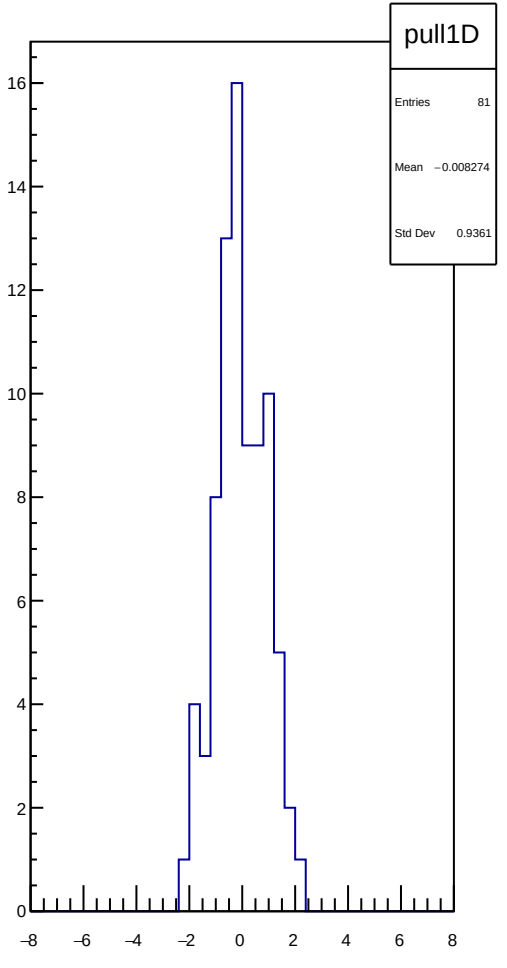

reg_asym_sam_37_avg_rms vs run
χ² / ndf 4.123e+04 / 80
p0 64.97 ± 0.05272
90
80
70
60
50

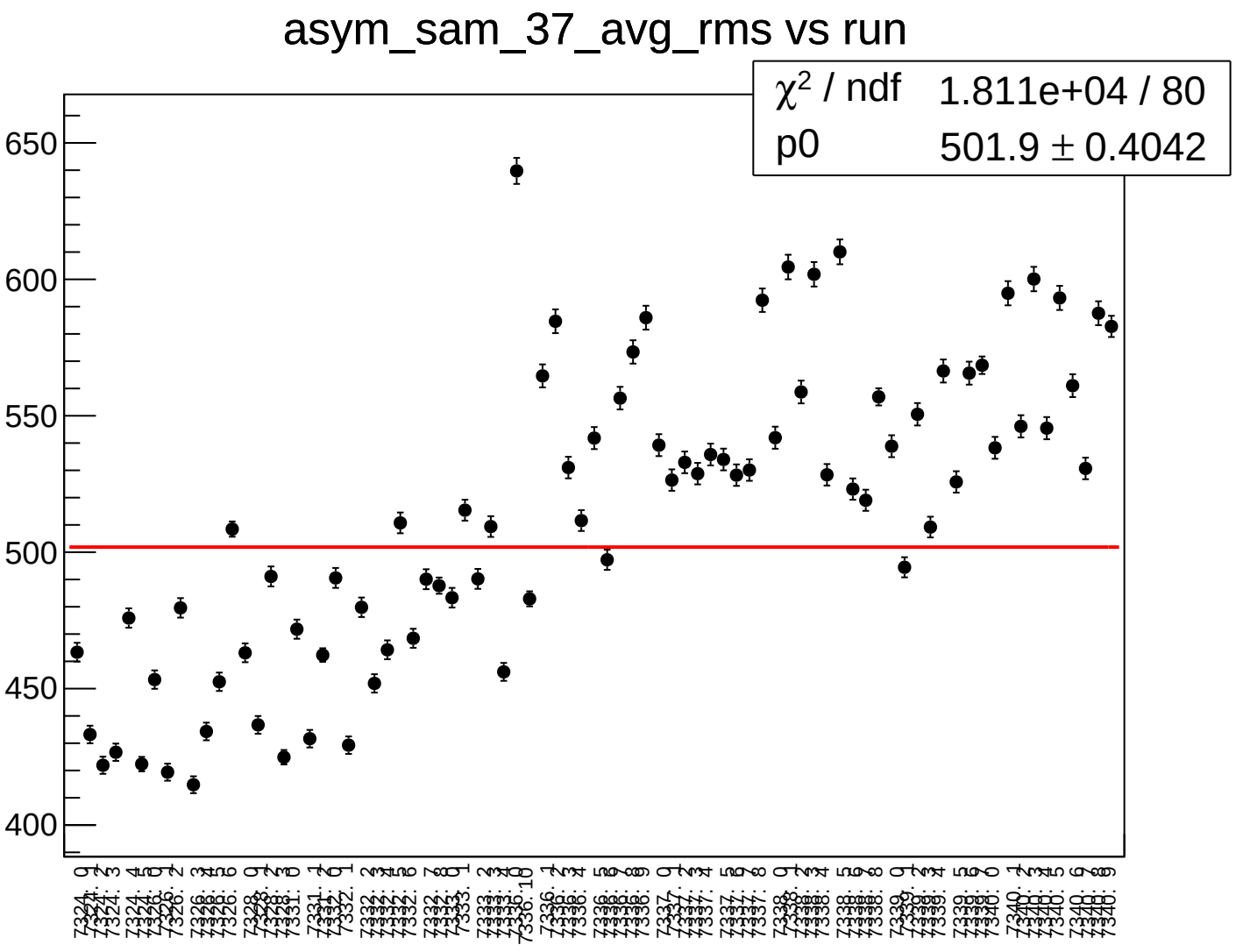

asym_sam_37_avg_correction_mean vs run
χ² / ndf 71.6 / 80
p0 −183.5 ± 566.5
pull
Entries 81
Mean 266.1
Std Dev 199.7

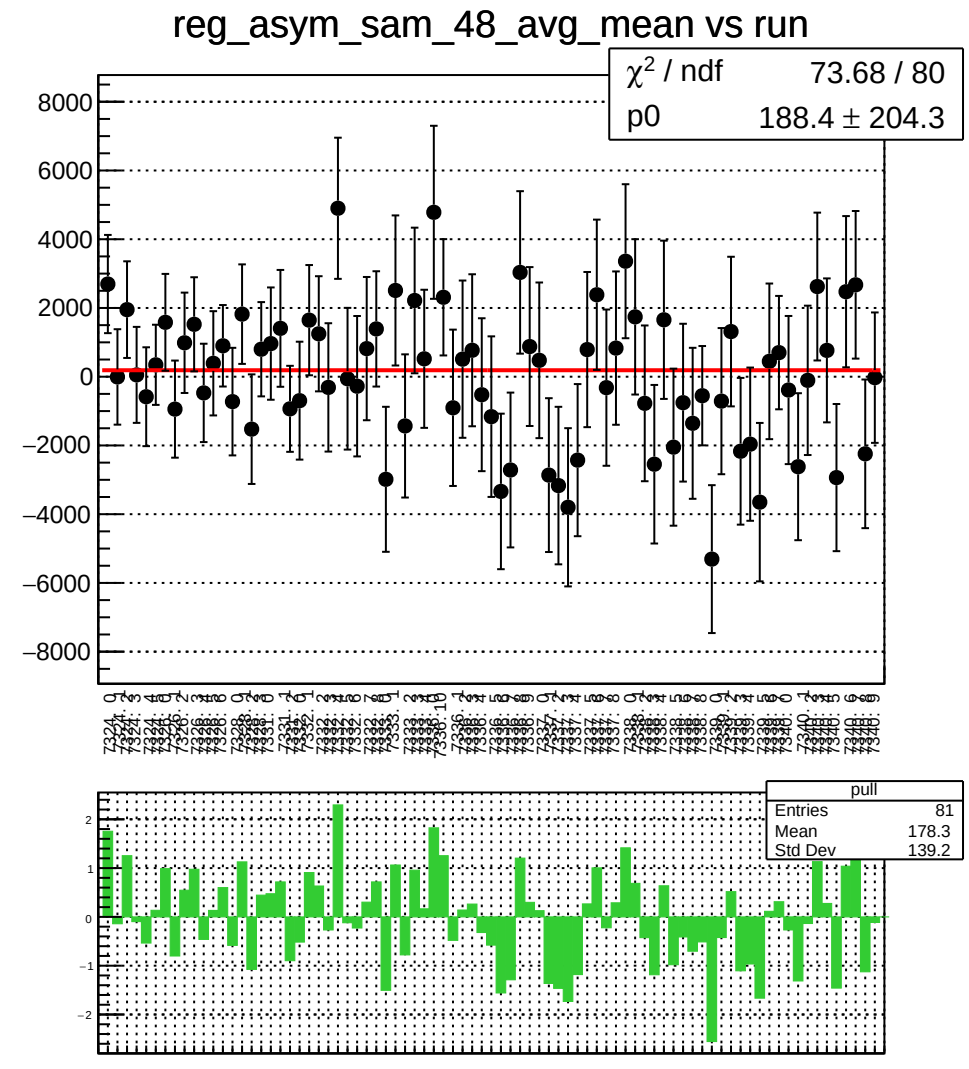

pull1D
Entries 81
Mean 0.006677
Std Dev 0.9402

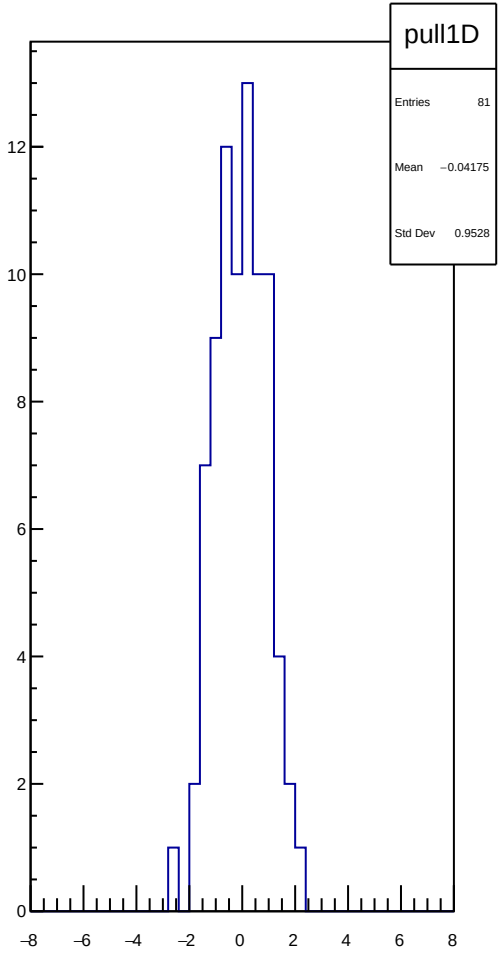

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.8e+04 / 80
p0 497.4 ± 0.4006
650
600
550
500
450
400

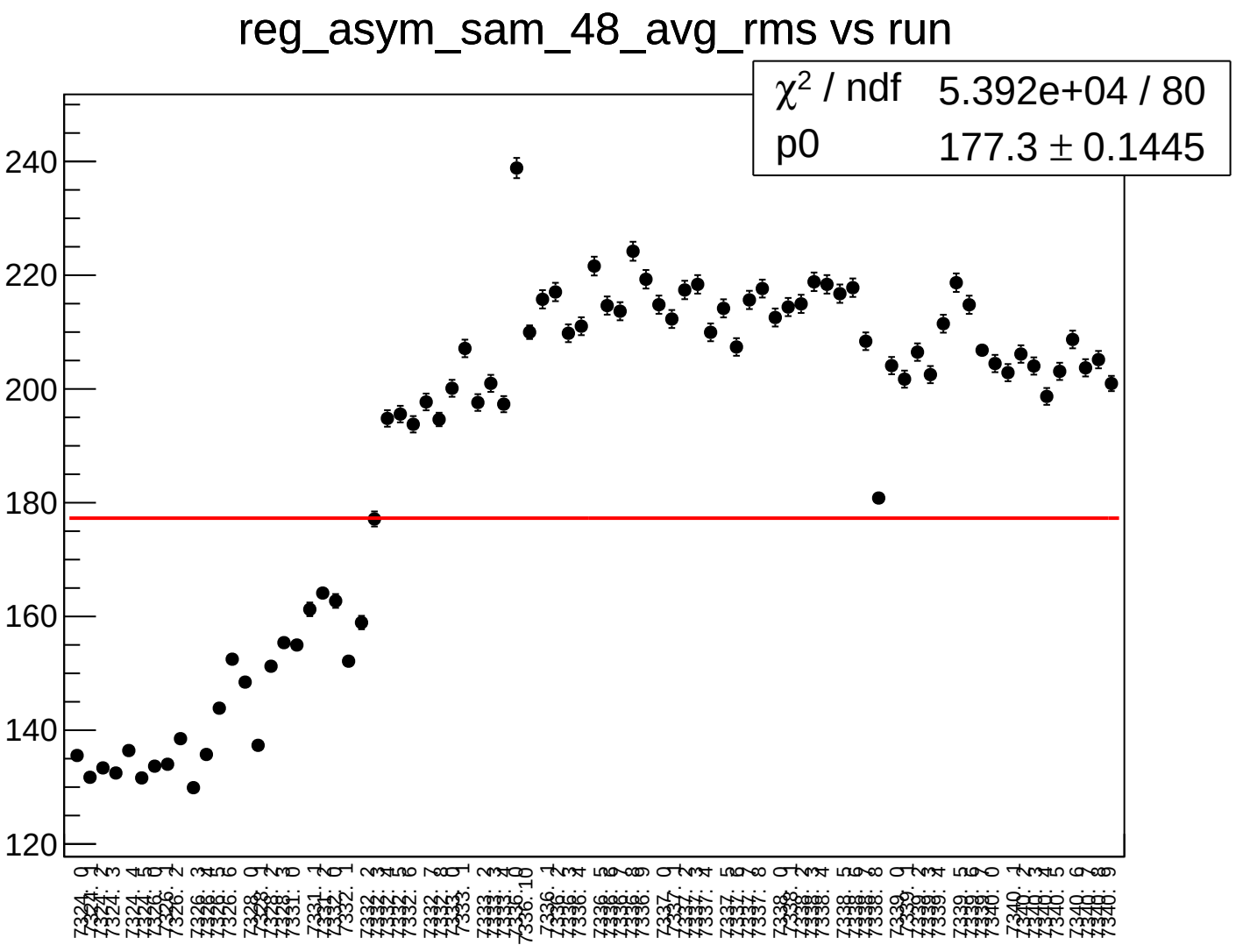

asym_sam_37_avg_mean vs run
χ^2 / ndf 70.99 / 80
p0 121.3 ± 571.6
pull
Entries 81
Mean 292
Std Dev 232

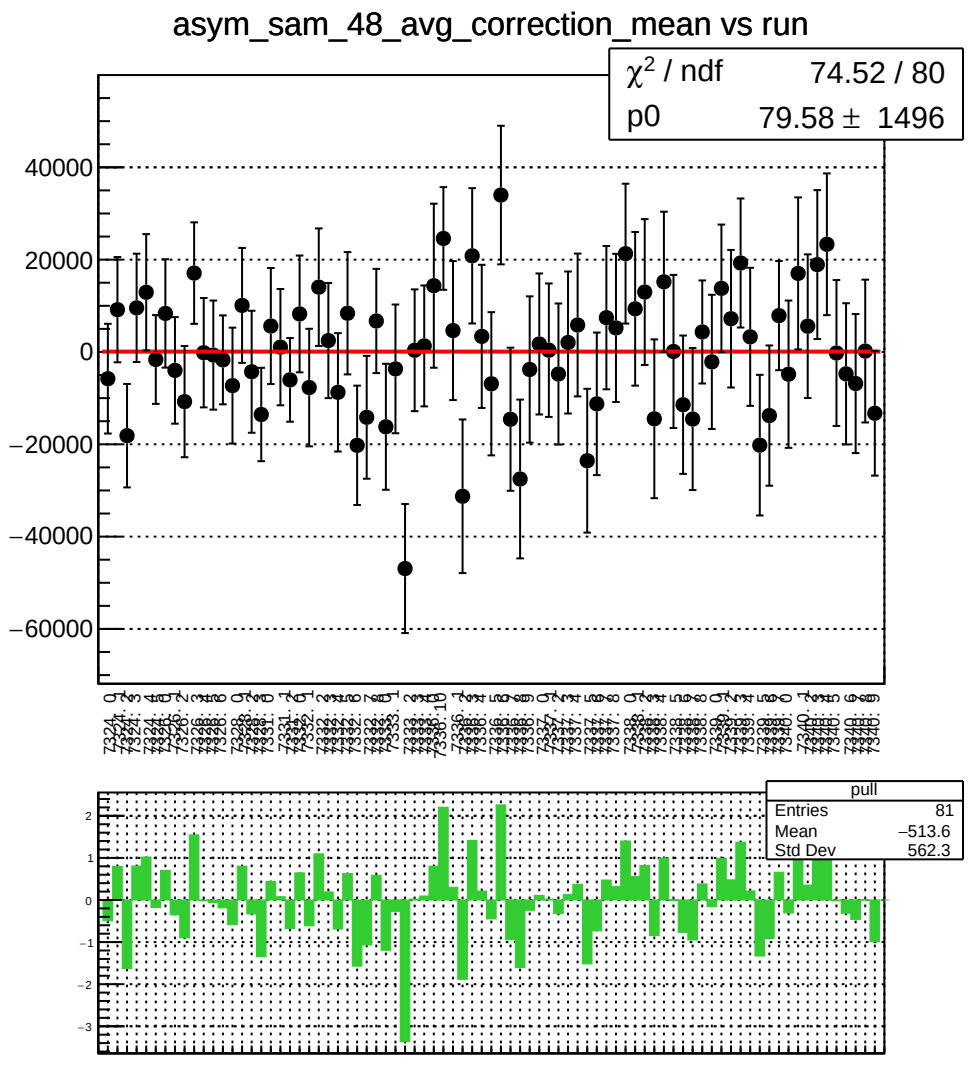

pull1D
Entries 81
Mean −0.008274
Std Dev 0.9361

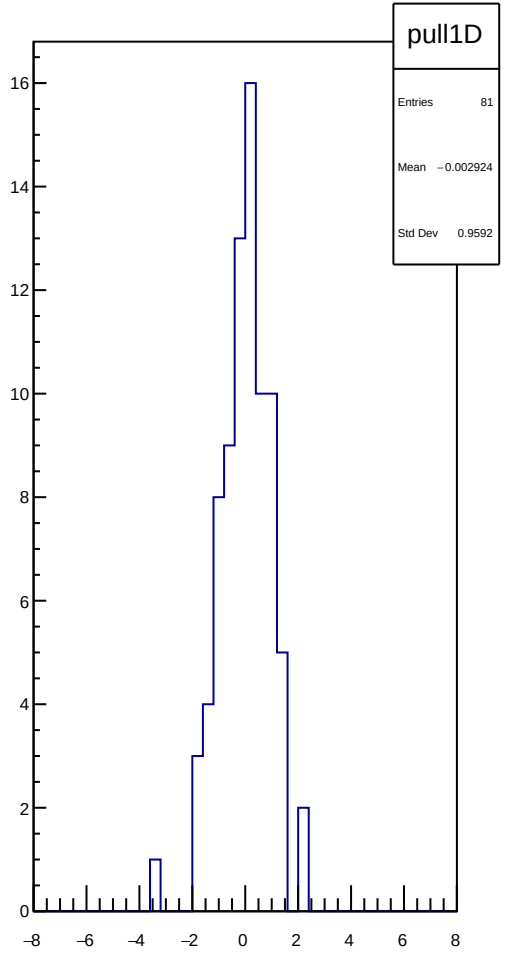

asym_sam_37_avg_rms vs run
χ² / ndf 1.811e+04 / 80
p0 501.9 ± 0.4042
650
600
550
500
450
400

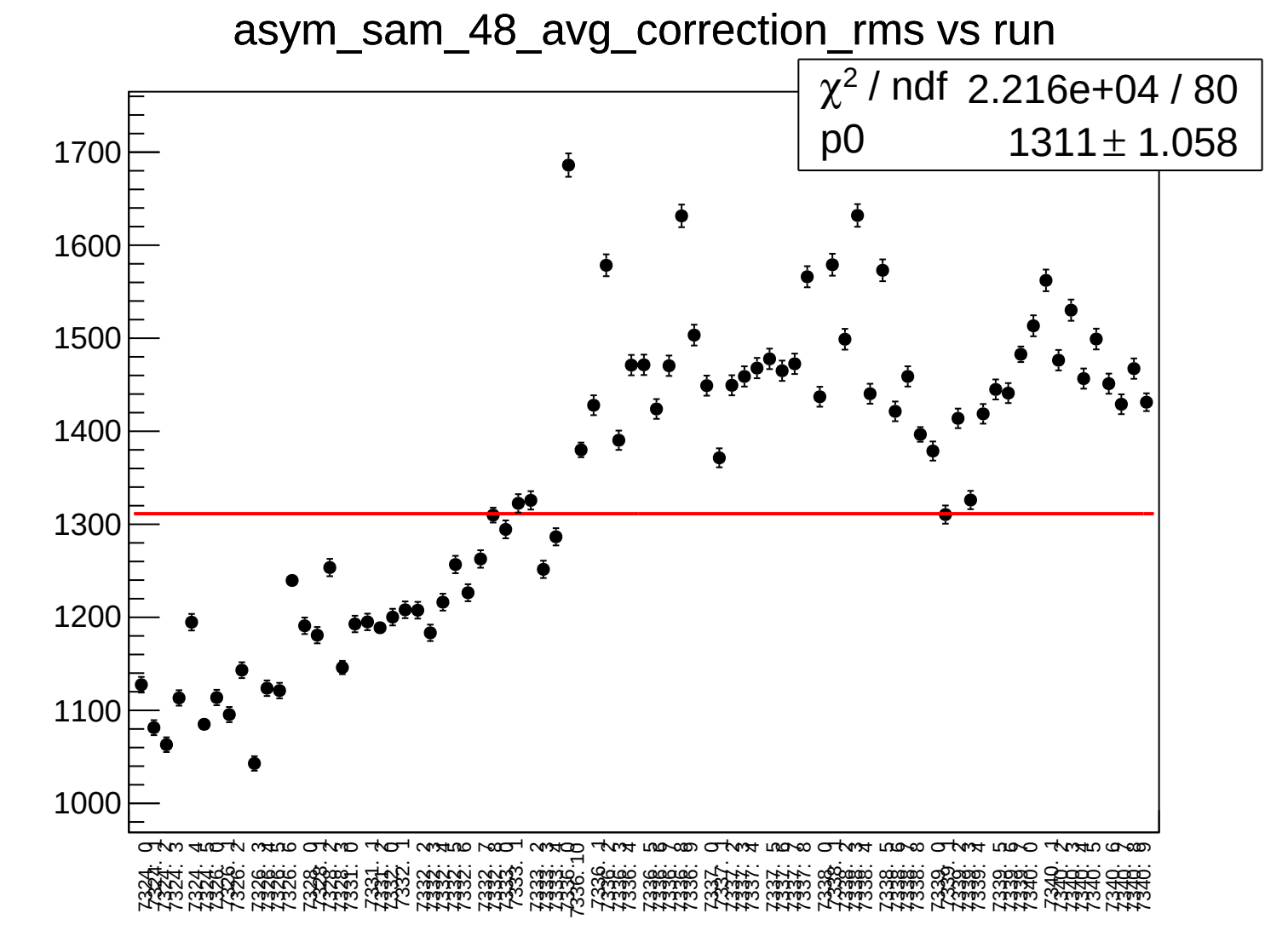

reg_asym_sam_48_avg_mean vs run
χ² / ndf 73.68 / 80
p0 188.4 ± 204.3
pull
Entries 81
Mean 178.3
Std Dev 139.2

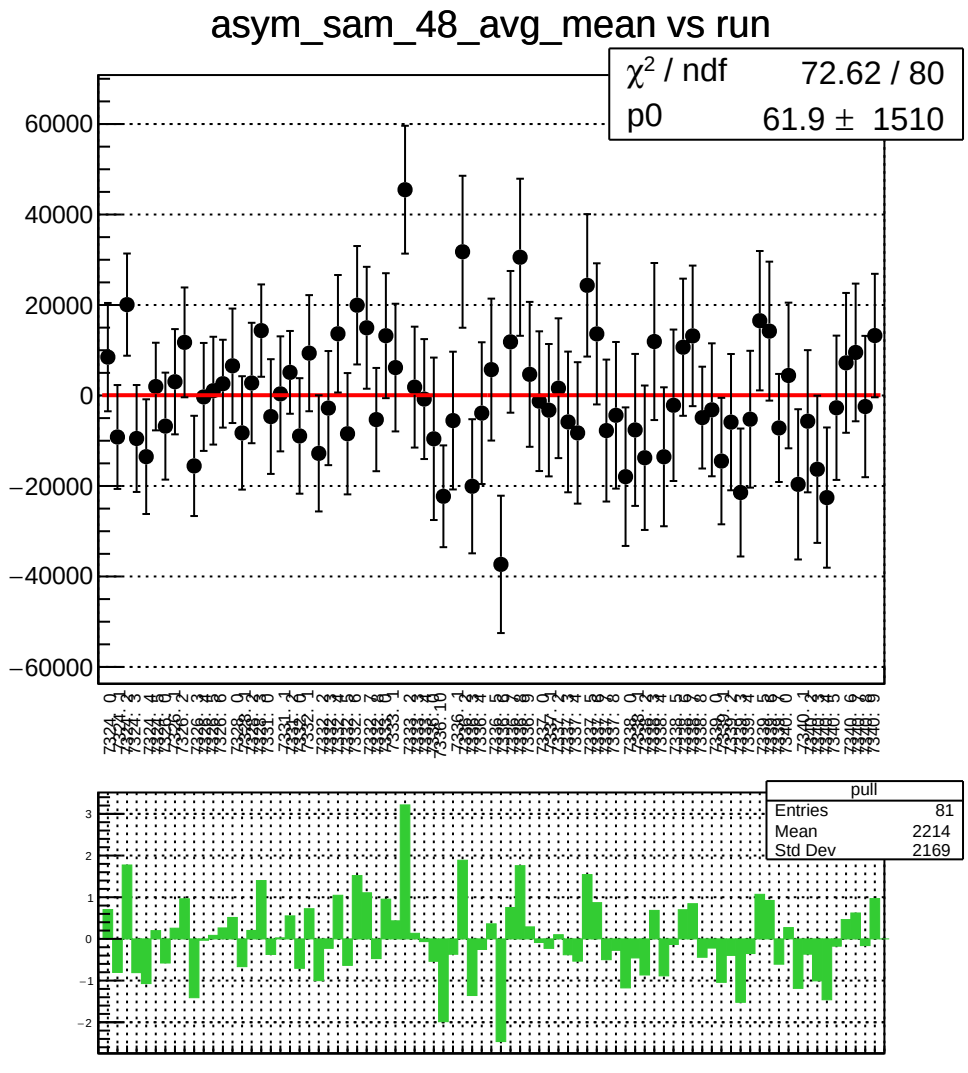

pull1D
Entries 81
Mean −0.04175
Std Dev 0.9528

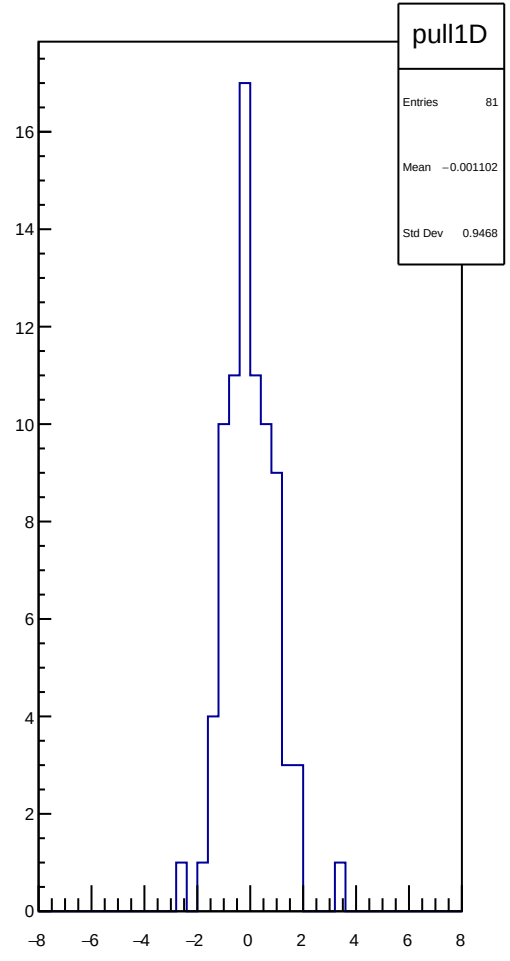

reg_asym_sam_48_avg_rms vs run
χ² / ndf 5.392e+04 / 80
p0 177.3 ± 0.1445
240
220
200
180
160
140
120

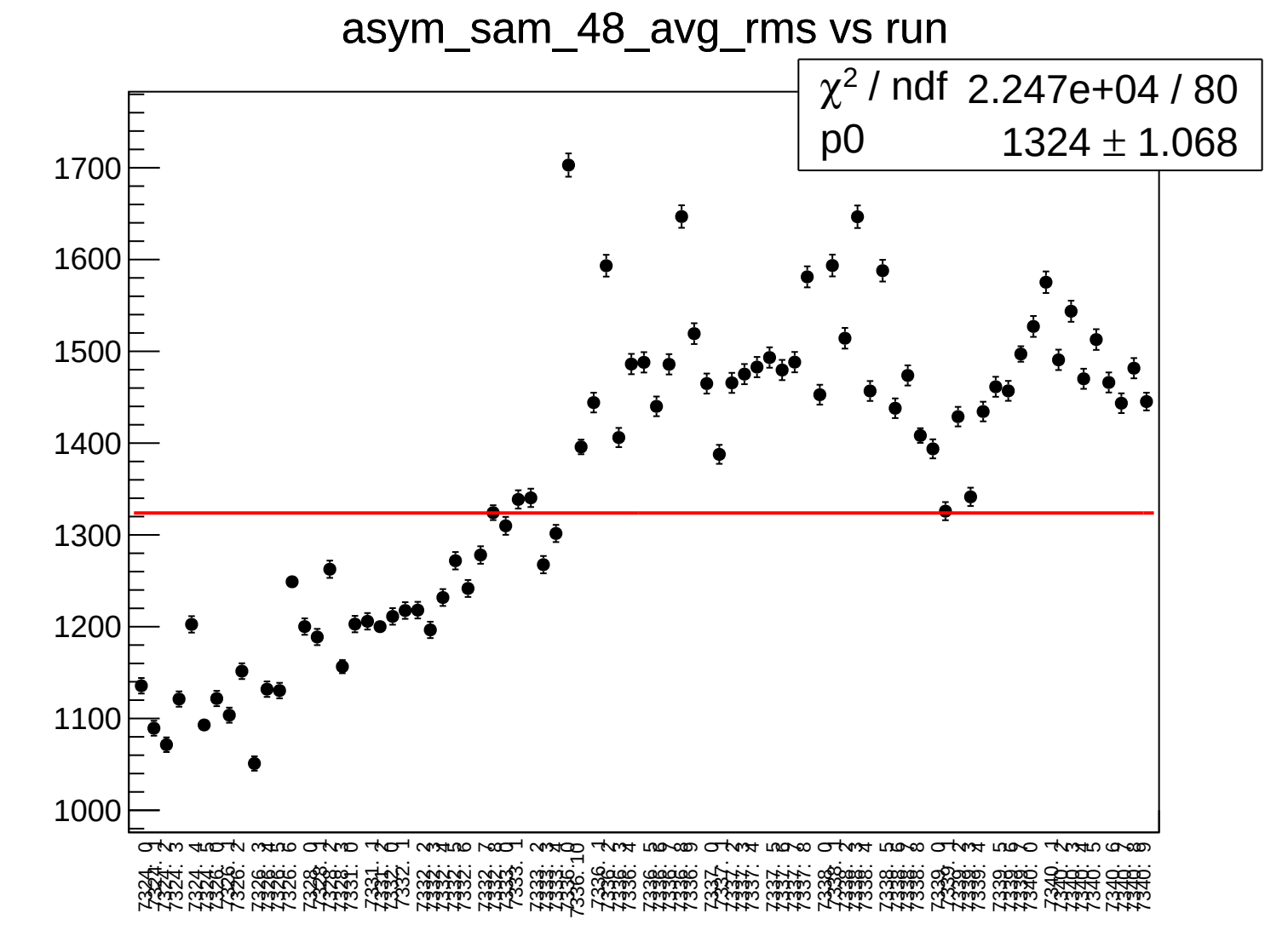

asym_sam_48_avg_correction_mean vs run
χ² / ndf 74.52 / 80
p0 79.58 ± 1496
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −513.6
Std Dev 562.3
2
1
0
−1
−2
−3

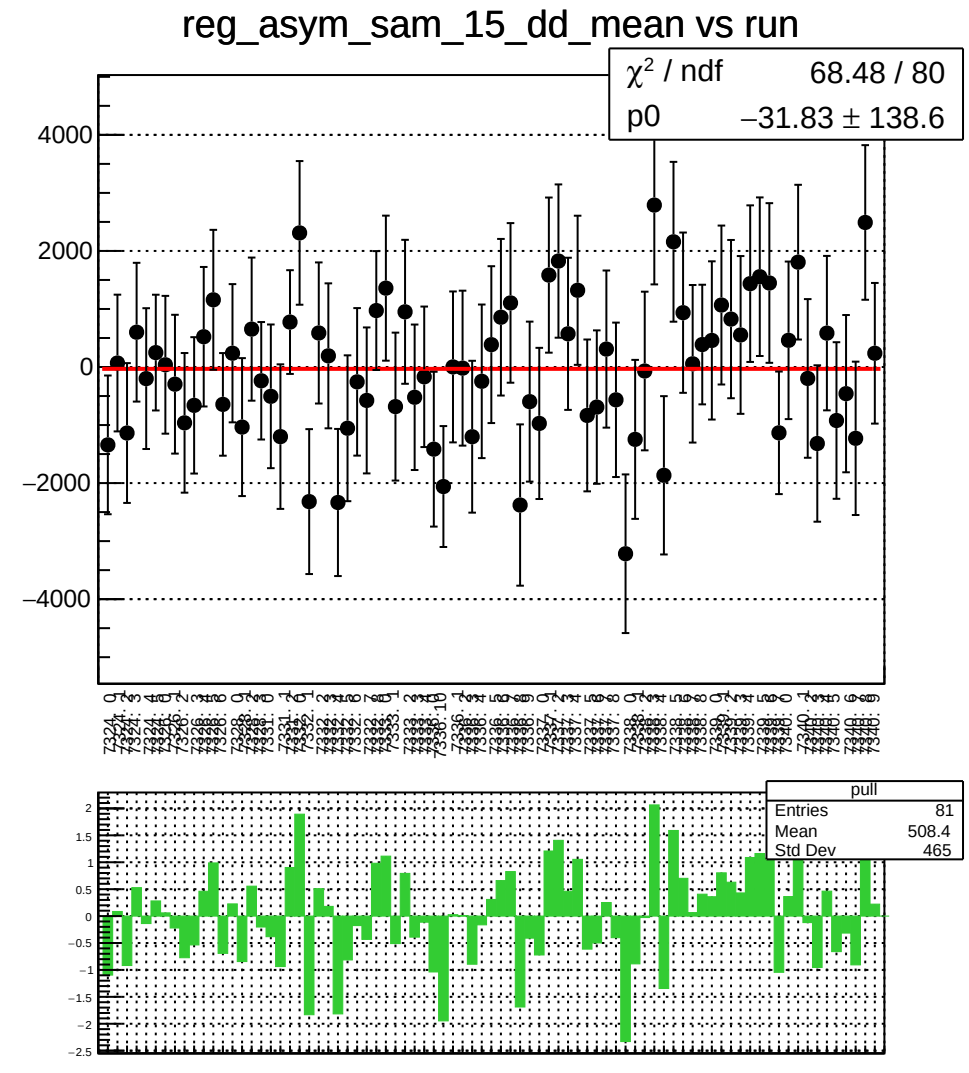

pull1D
Entries 81
Mean −0.002924
Std Dev 0.9592
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

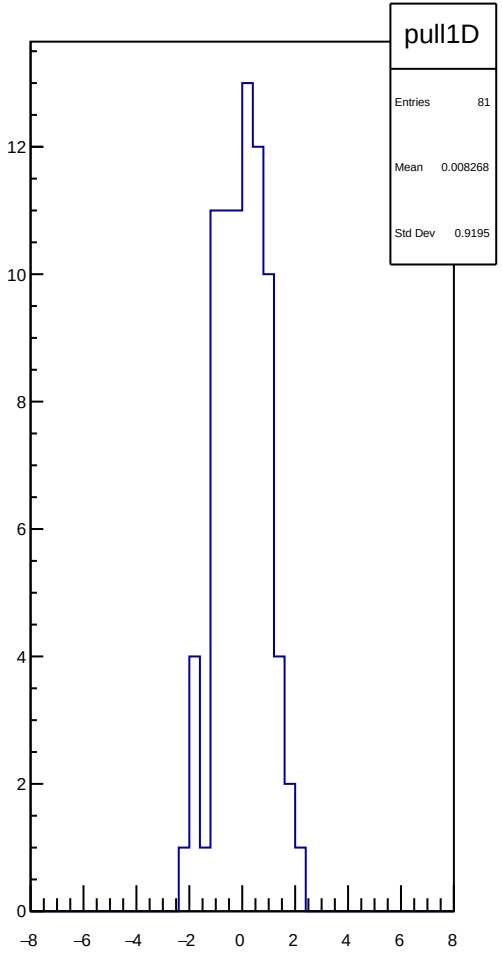

asym_sam_48_avg_correction_rms vs run
χ² / ndf 2.216e+04 / 80
p0 1311 ± 1.058
1700
1600
1500
1400
1300
1200
1100
1000

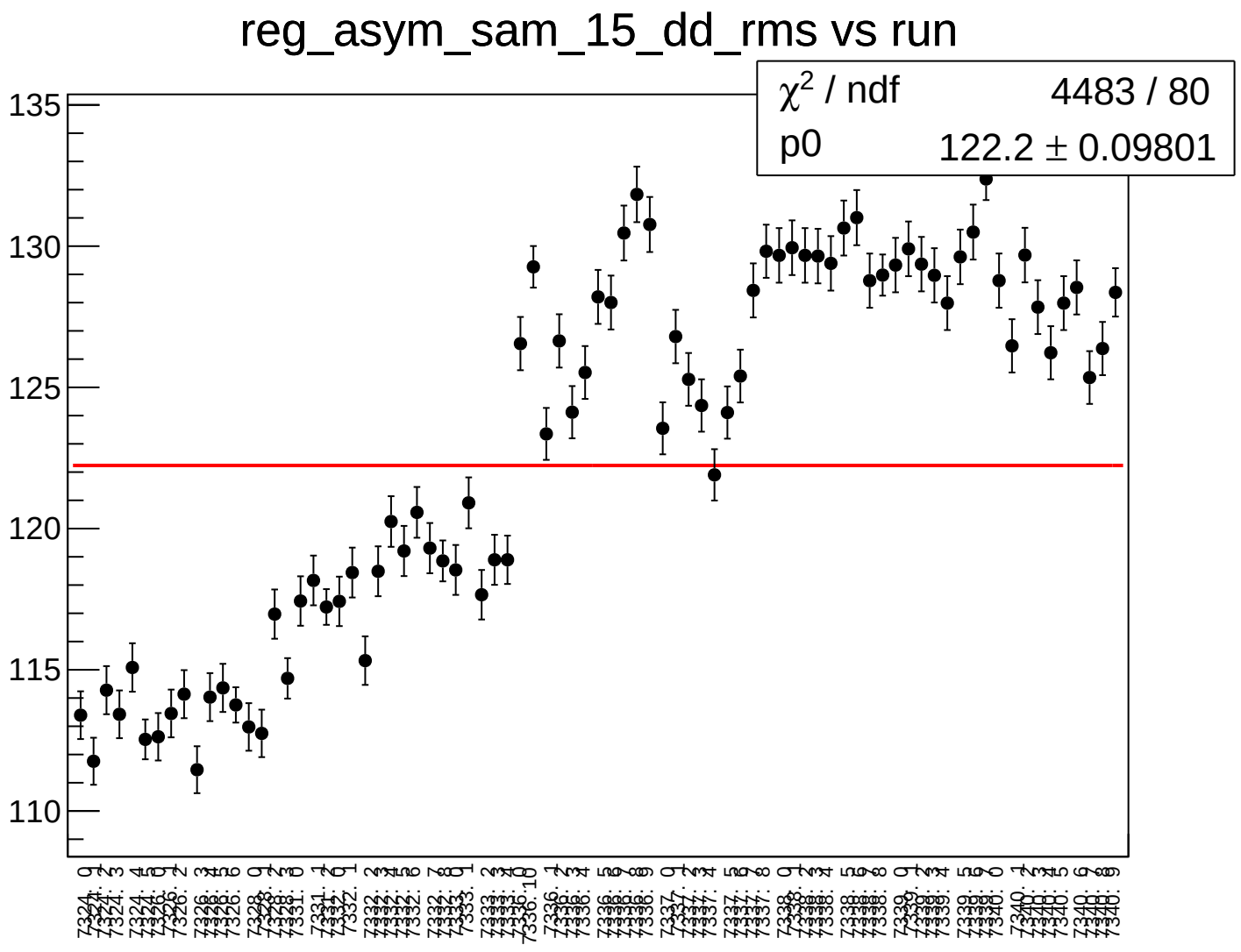

asym_sam_48_avg_mean vs run
χ² / ndf 72.62 / 80
p0 61.9 ± 1510
pull
Entries 81
Mean 2214
Std Dev 2169

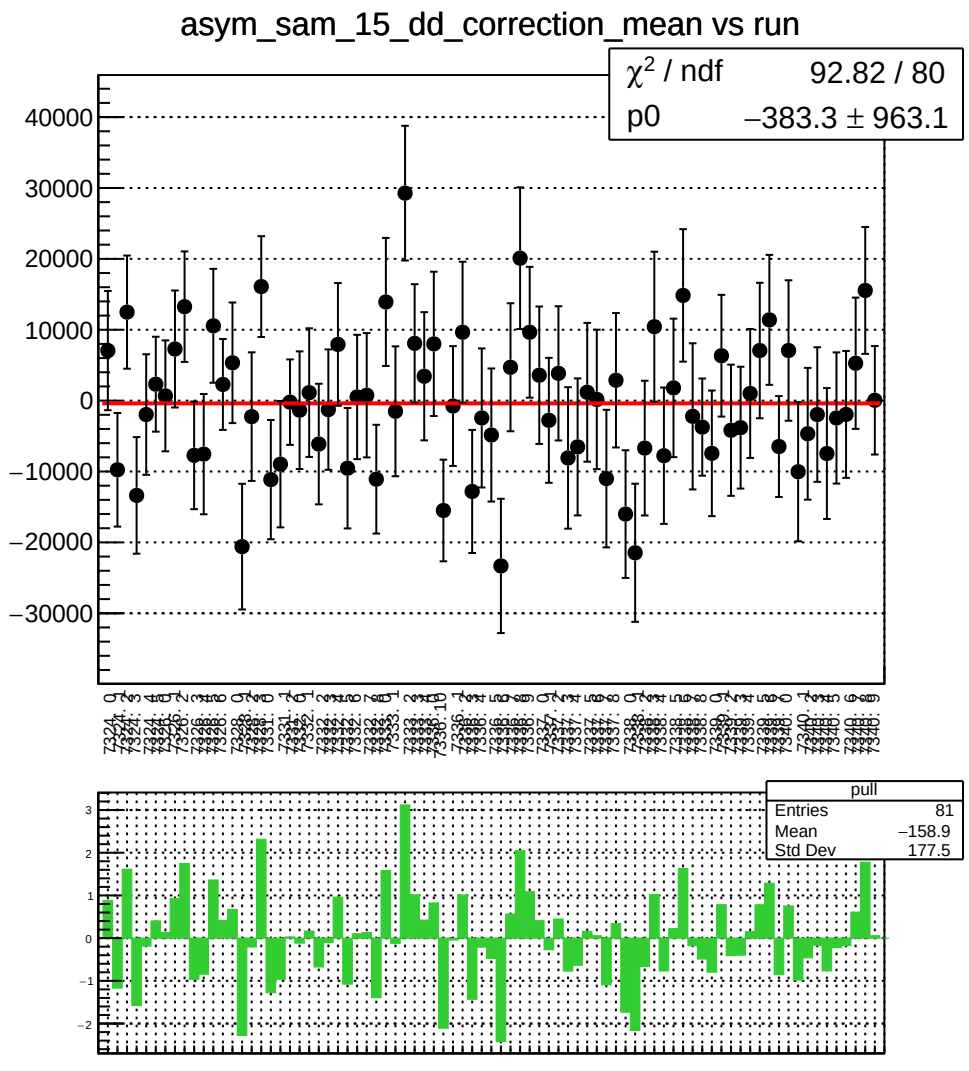

pull1D
Entries 81
Mean −0.001102
Std Dev 0.9468

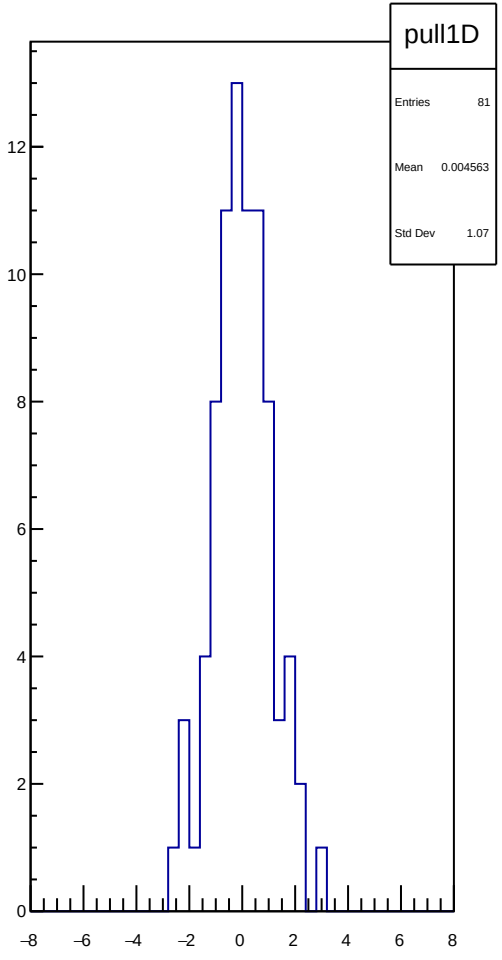

asym_sam_48_avg_rms vs run
χ² / ndf 2.247e+04 / 80
p0 1324 ± 1.068
1700
1600
1500
1400
1300
1200
1100
1000

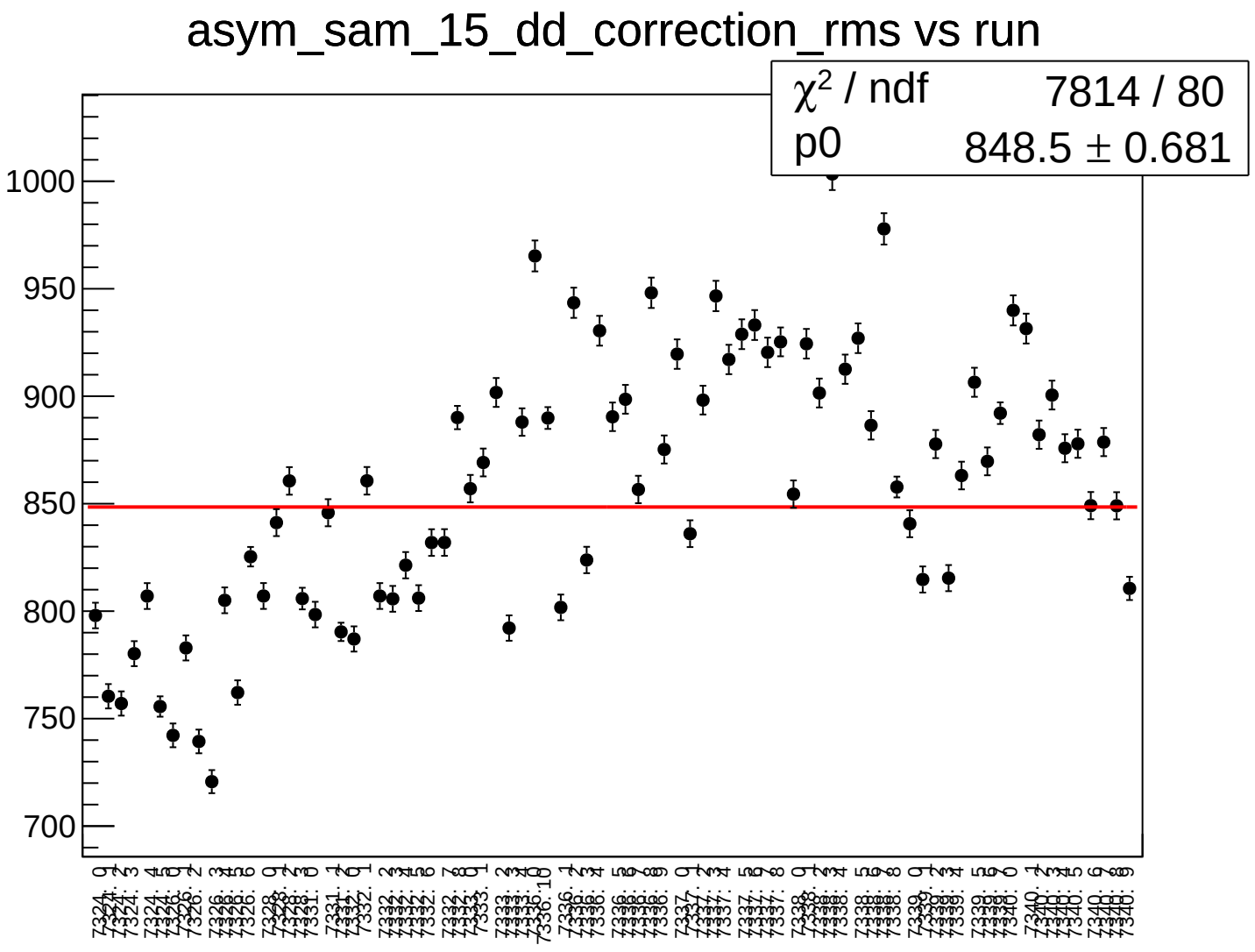

reg_asym_sam_15_dd_mean vs run
χ² / ndf 68.48 / 80
p0 −31.83 ± 138.6
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 508.4
Std Dev 465
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

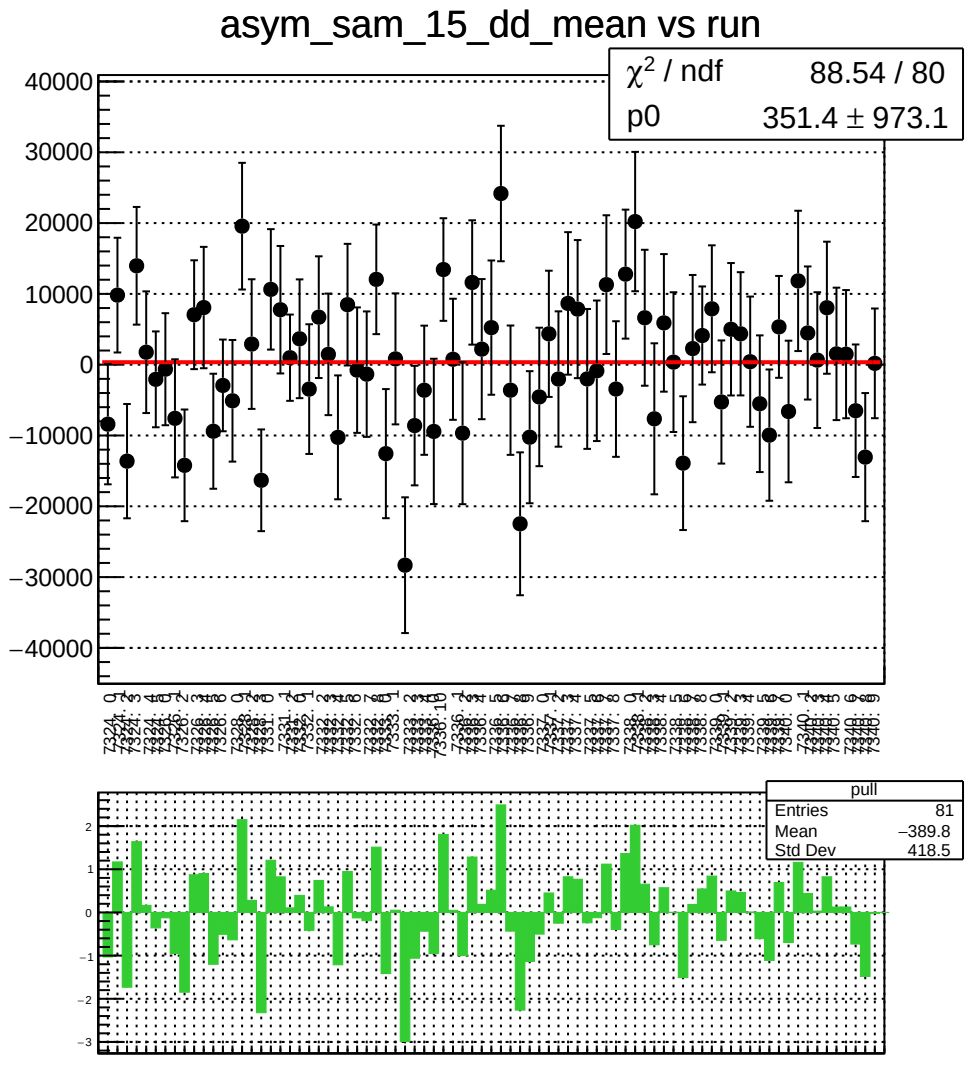

pull1D
Entries 81
Mean 0.008268
Std Dev 0.9195
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

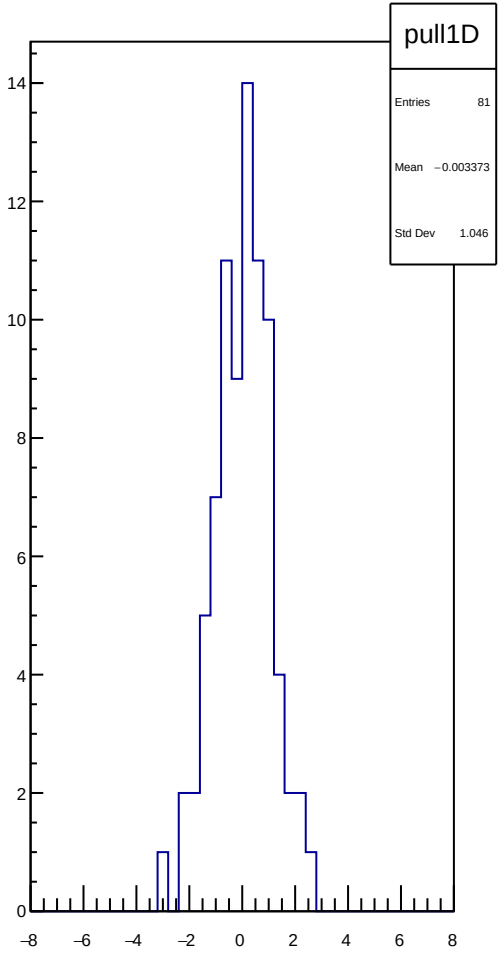

reg_asym_sam_15_dd_rms vs run
χ² / ndf 4483 / 80
p0 122.2 ± 0.09801
135
130
125
120
115
110

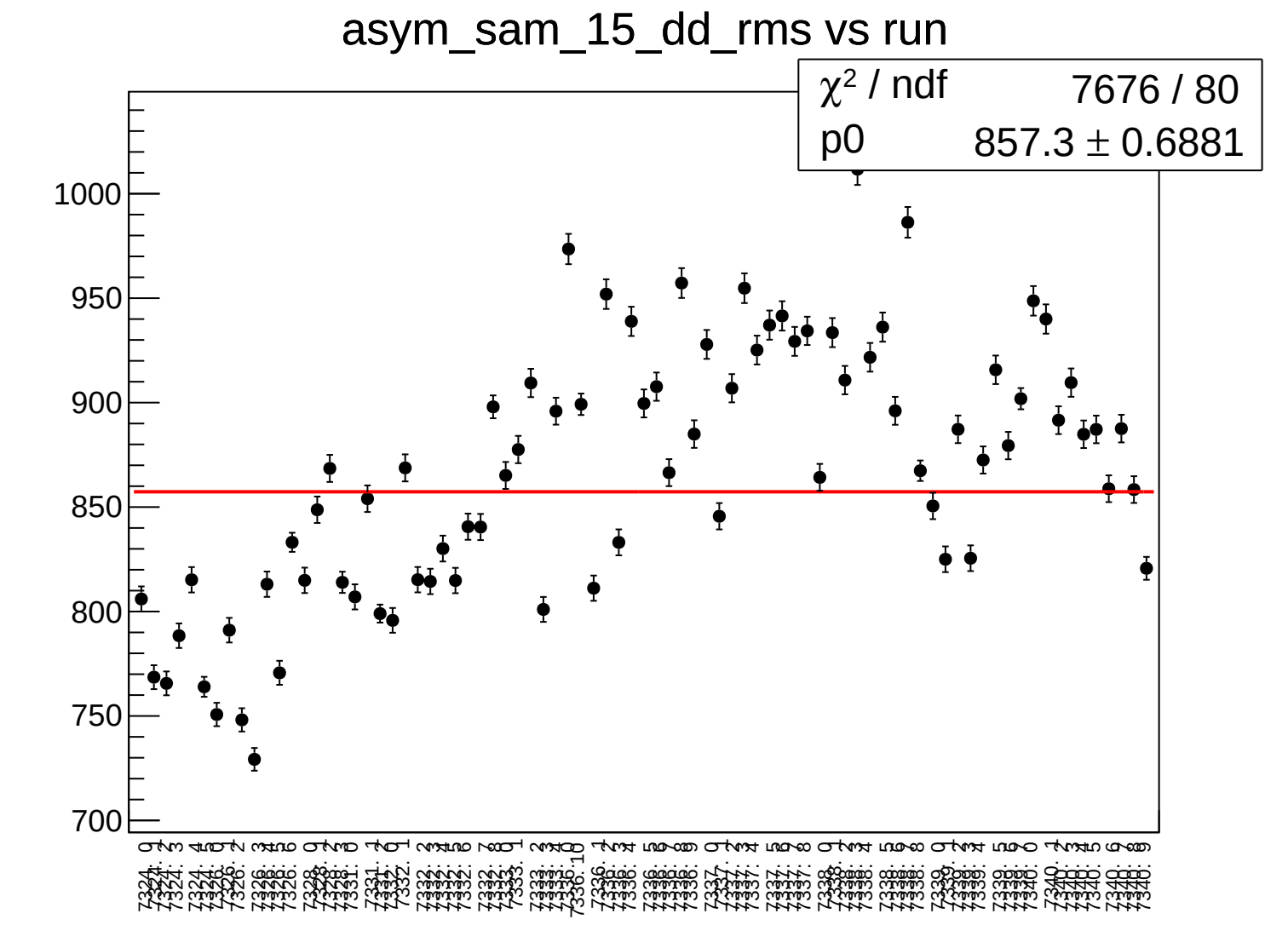

asym_sam_15_dd_correction_mean vs run
χ² / ndf 92.82 / 80
p0 −383.3 ± 963.1
pull
Entries 81
Mean −158.9
Std Dev 177.5

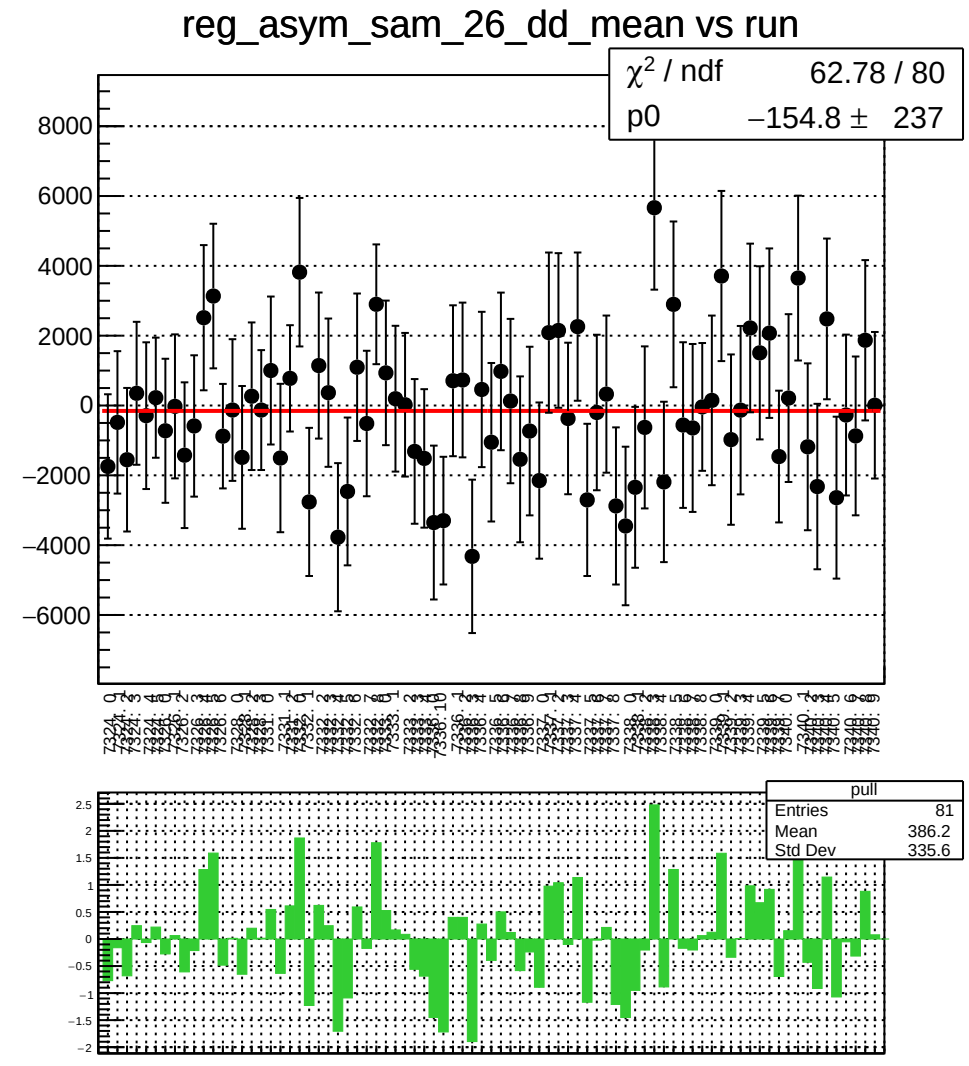

pull1D
Entries 81
Mean 0.004563
Std Dev 1.07

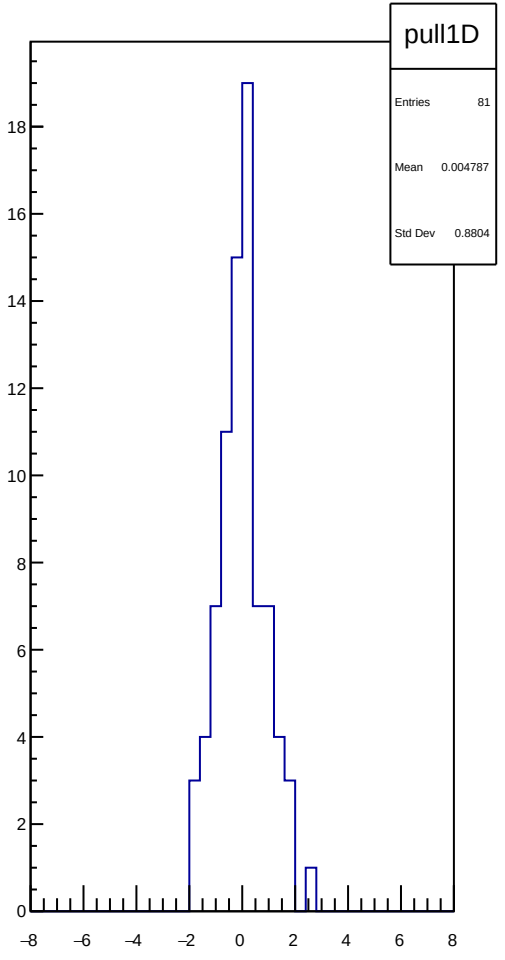

asym_sam_15_dd_correction_rms vs run
χ² / ndf 7814 / 80
p0 848.5 ± 0.681
1000
950
900
850
800
750
700

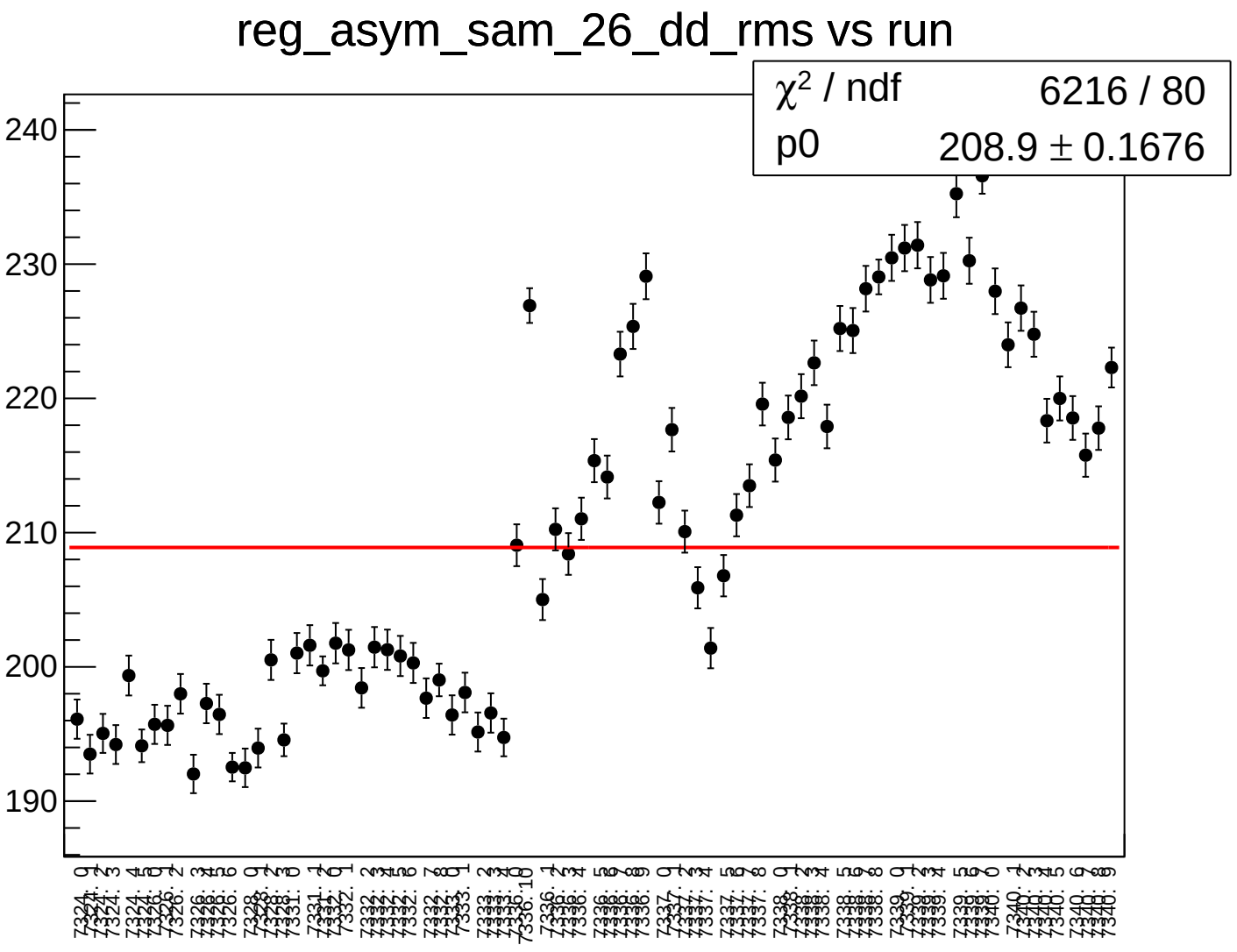

asym_sam_15_dd_mean vs run
χ² / ndf 88.54 / 80
p0 351.4 ± 973.1
pull
Entries 81
Mean −389.8
Std Dev 418.5

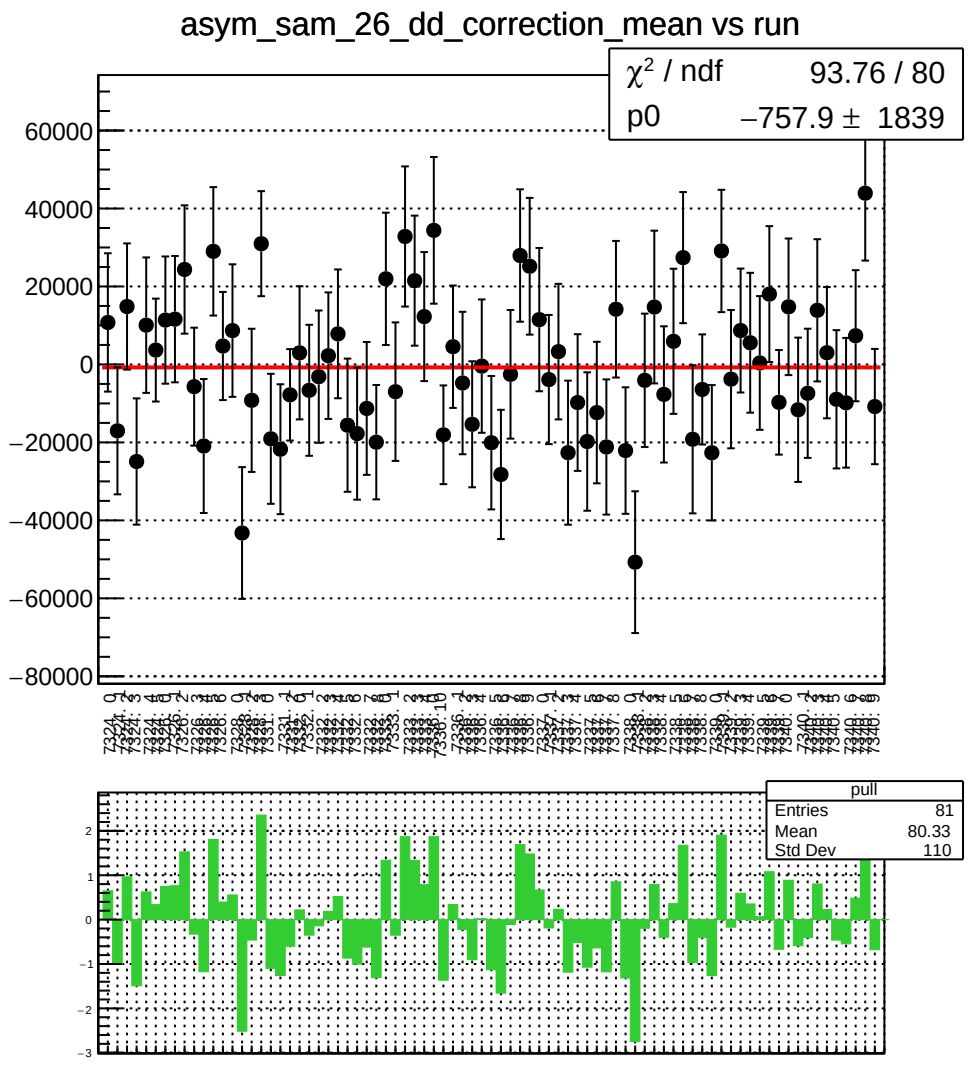

pull1D
Entries 81
Mean −0.003373
Std Dev 1.046

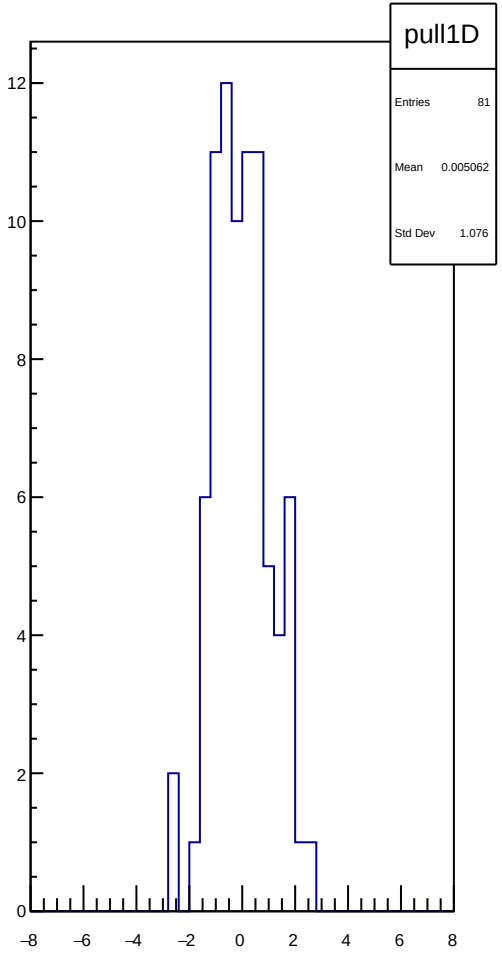

asym_sam_15_dd_rms vs run
χ² / ndf 7676 / 80
p0 857.3 ± 0.6881
1000
950
900
850
800
750
700

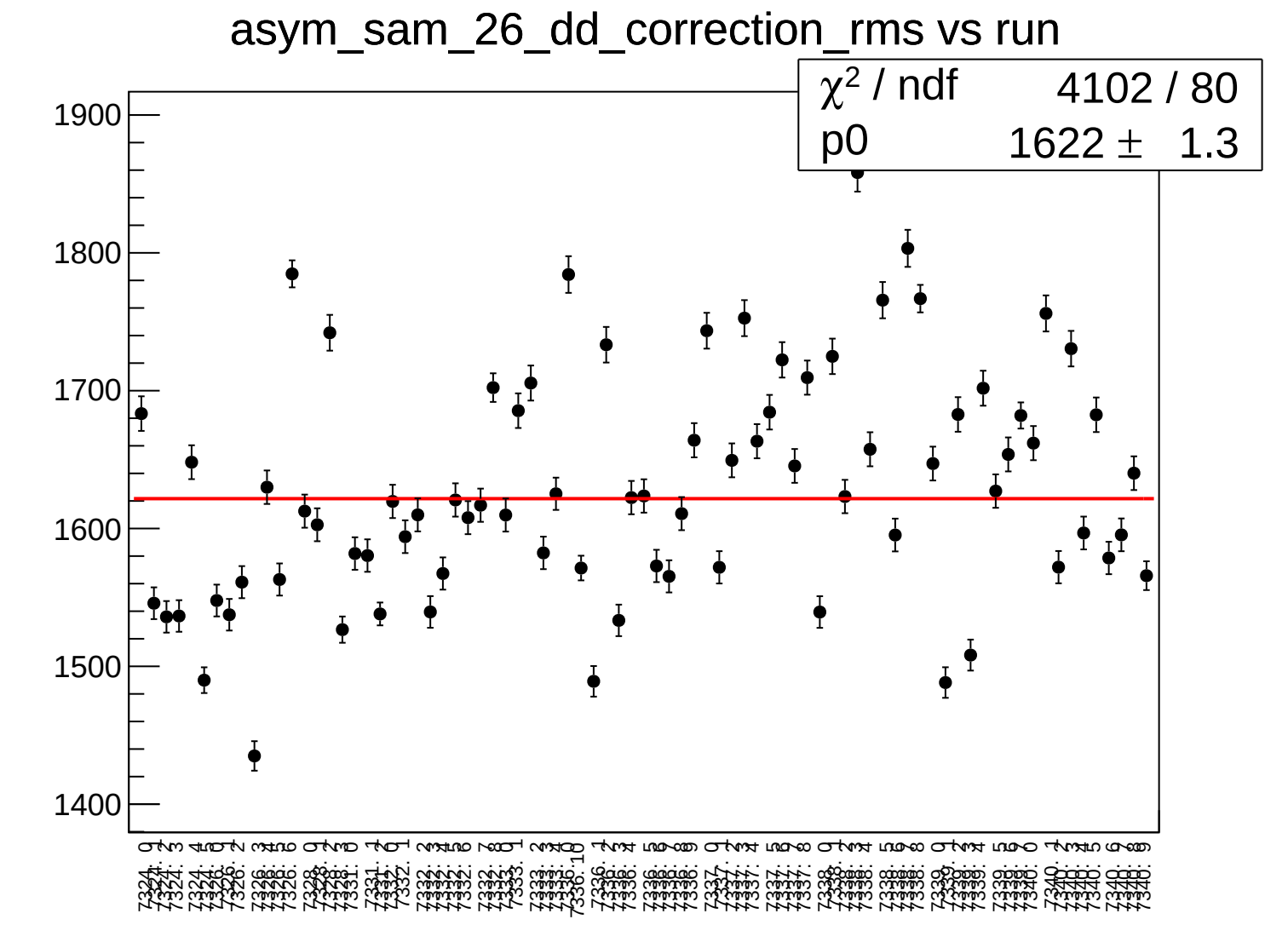

reg_asym_sam_26_dd_mean vs run
χ² / ndf 62.78 / 80
p0 −154.8 ± 237
pull
Entries 81
Mean 386.2
Std Dev 335.6

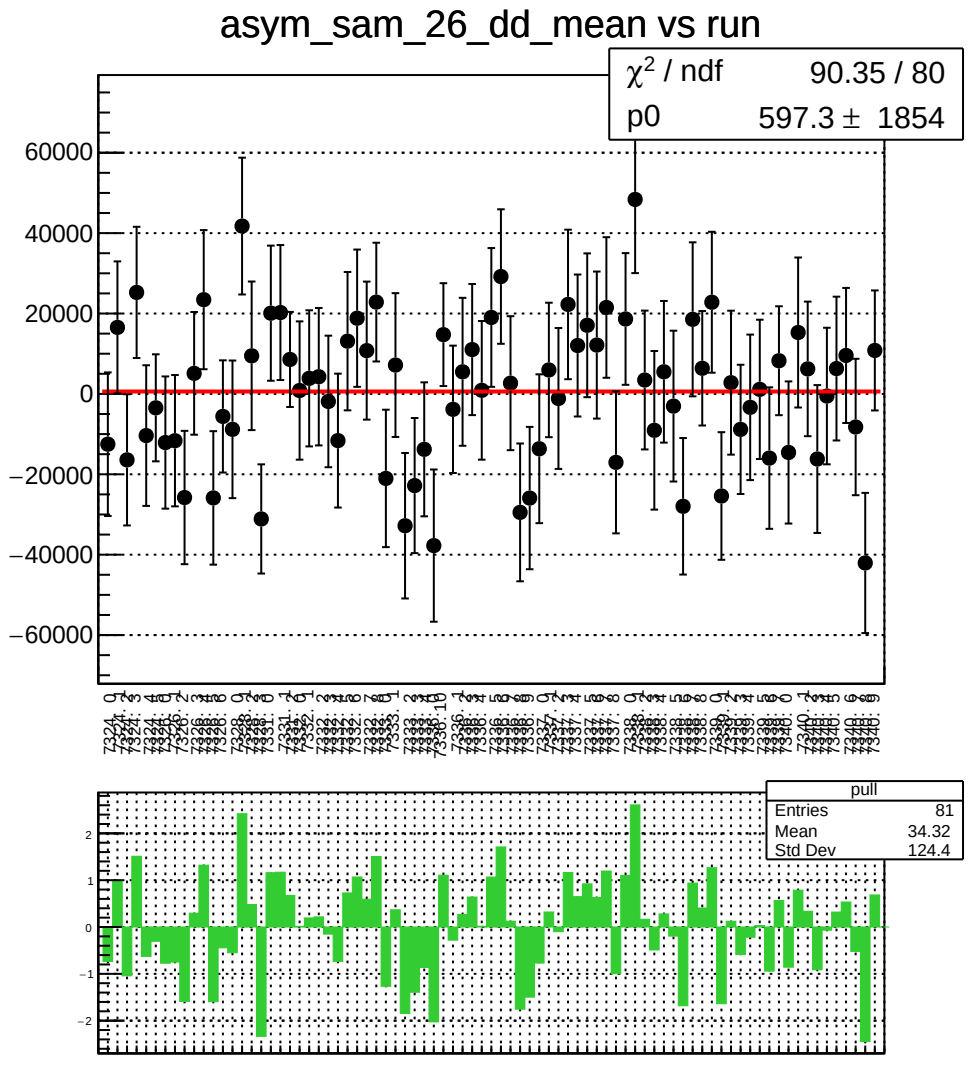

pull1D
Entries 81
Mean 0.004787
Std Dev 0.8804

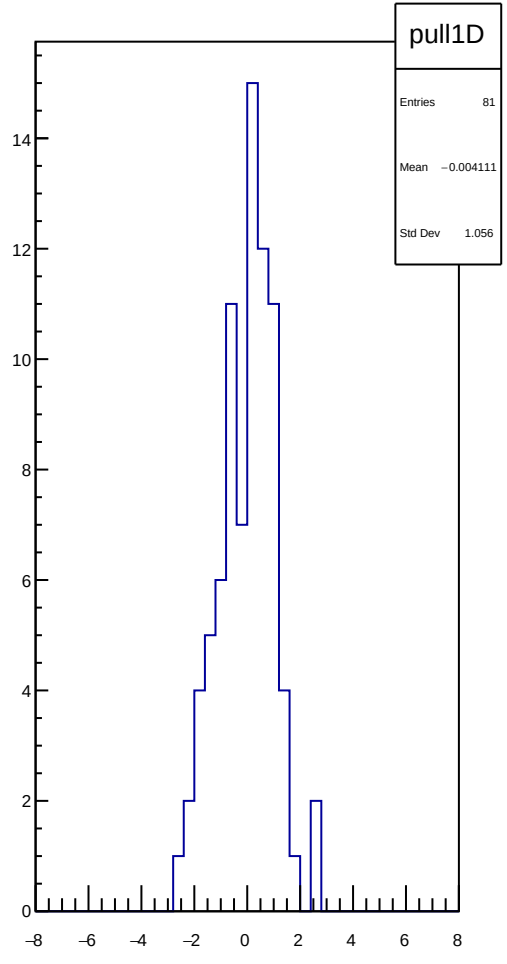

reg_asym_sam_26_dd_rms vs run
χ² / ndf 6216 / 80
p0 208.9 ± 0.1676
240
230
220
210
200
190

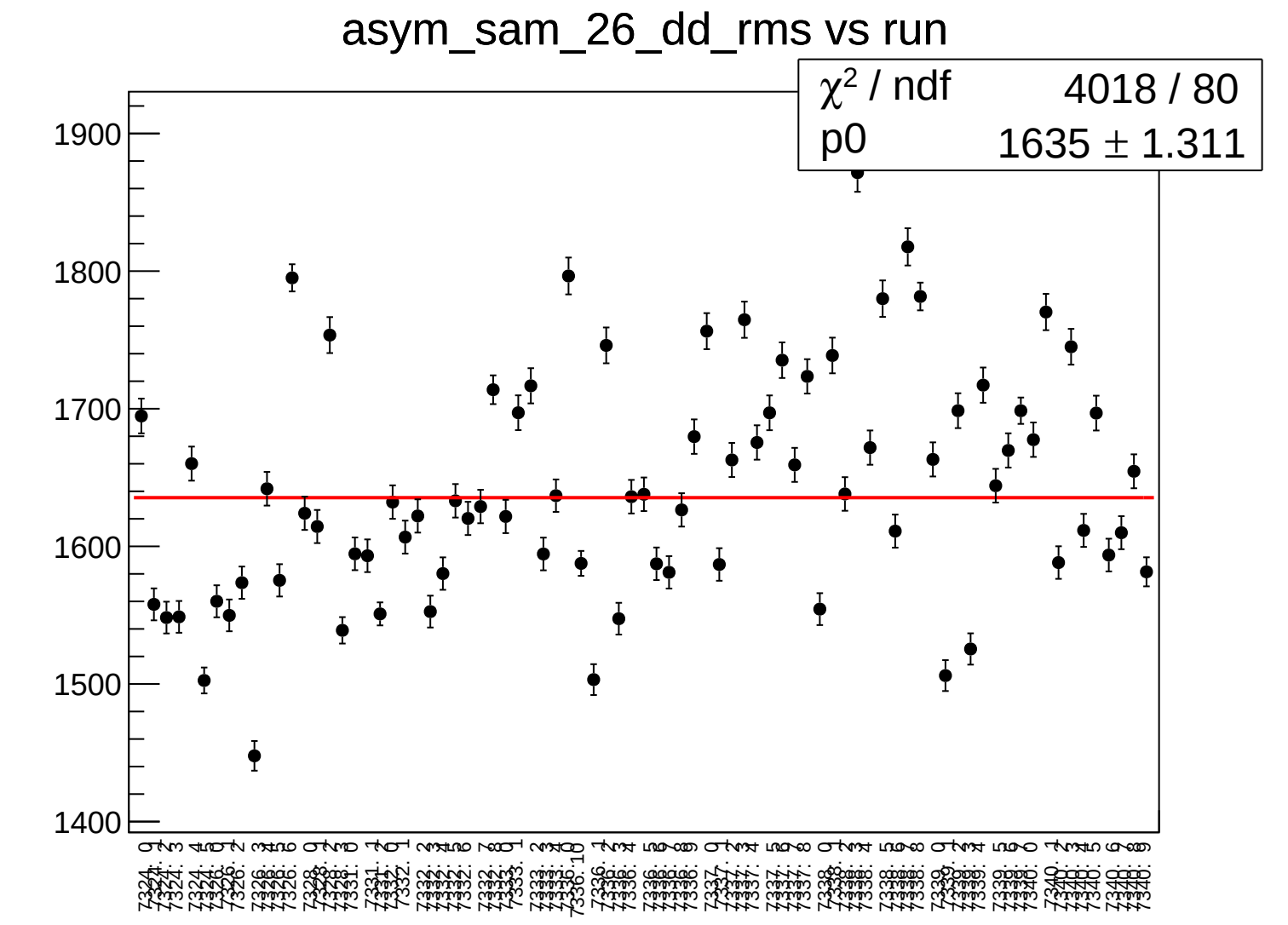

asym_sam_26_dd_correction_mean vs run
χ² / ndf 93.76 / 80
p0 −757.9 ± 1839
pull
Entries 81
Mean 80.33
Std Dev 110

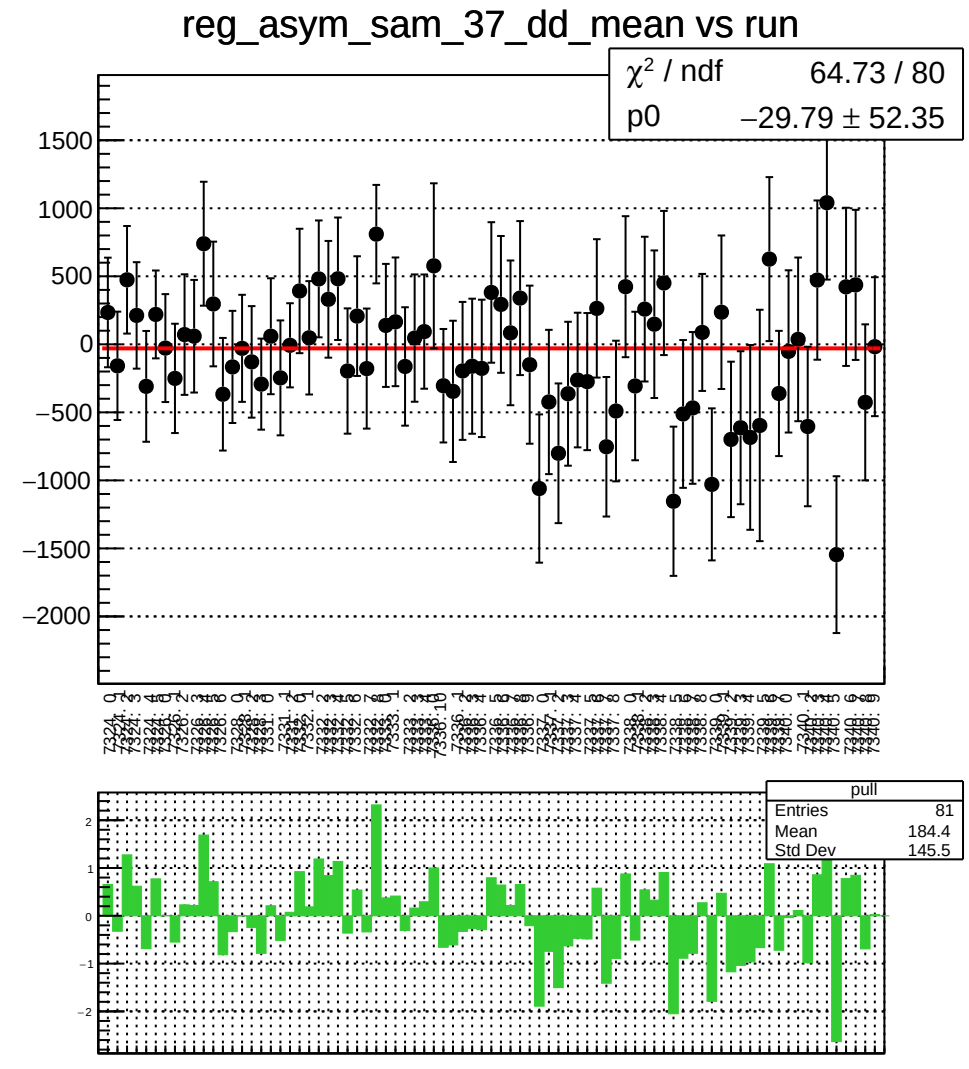

pull1D
Entries 81
Mean 0.005062
Std Dev 1.076

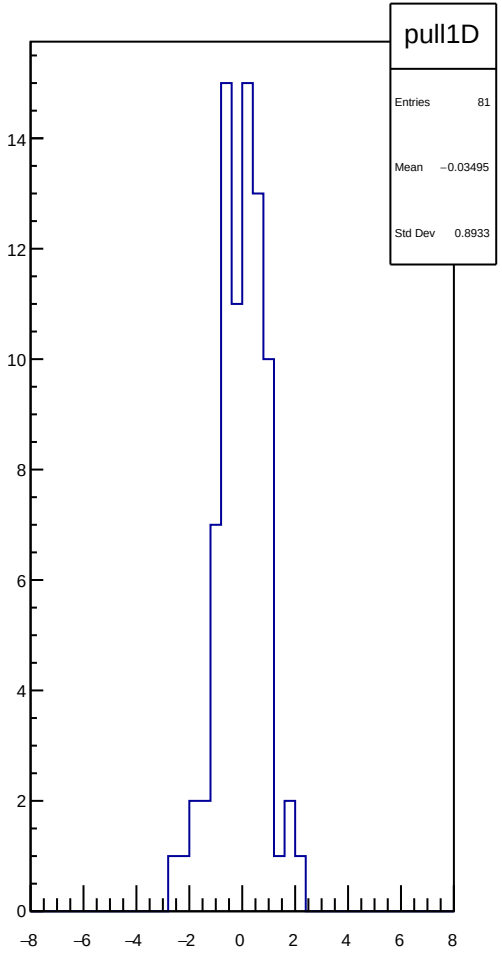

asym_sam_26_dd_correction_rms vs run
χ² / ndf 4102 / 80
p0 1622 ± 1.3
1900
1800
1700
1600
1500
1400

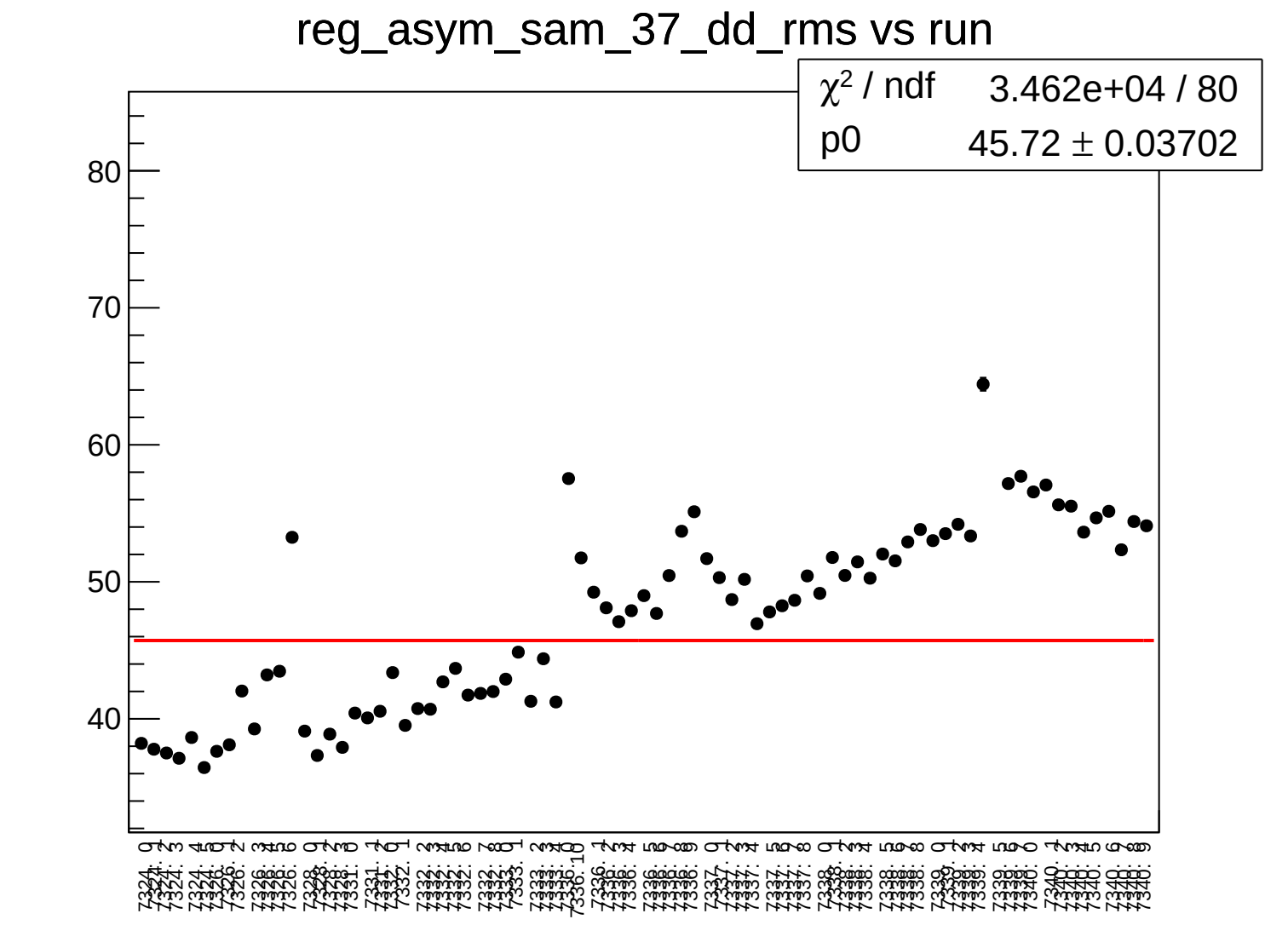

asym_sam_26_dd_mean vs run
χ² / ndf 90.35 / 80
p0 597.3 ± 1854
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean 34.32
Std Dev 124.4
2
1
0
−1
−2

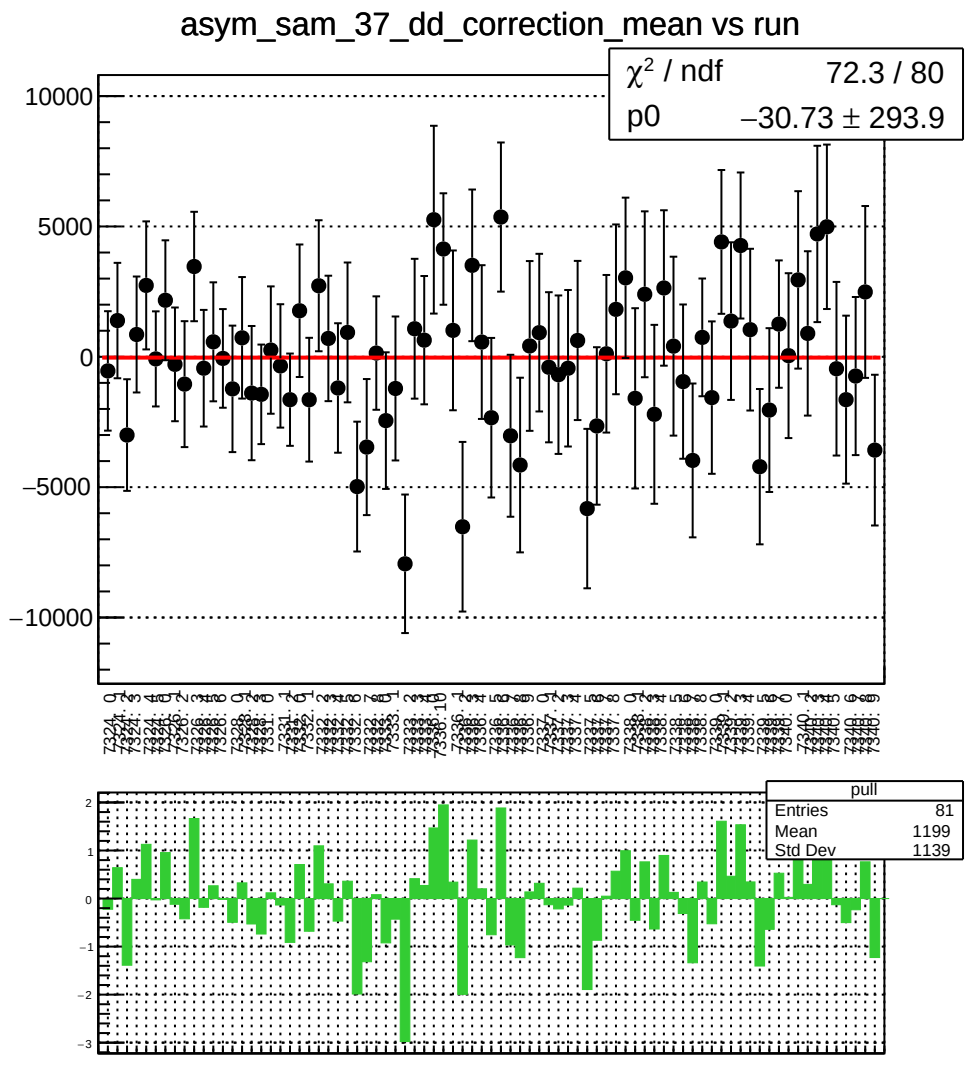

pull1D
Entries 81
Mean −0.004111
Std Dev 1.056
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

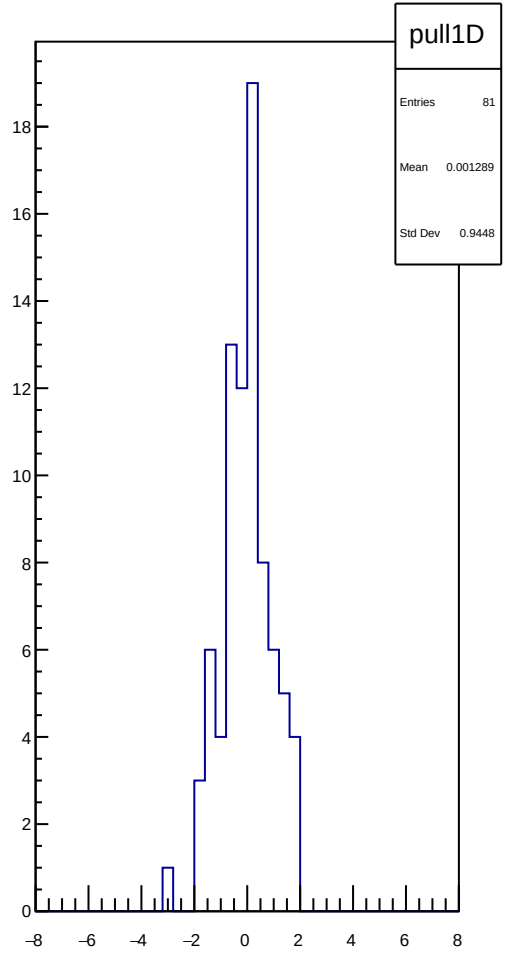

asym_sam_26_dd_rms vs run
χ² / ndf 4018 / 80
p0 1635 ± 1.311
1900
1800
1700
1600
1500
1400

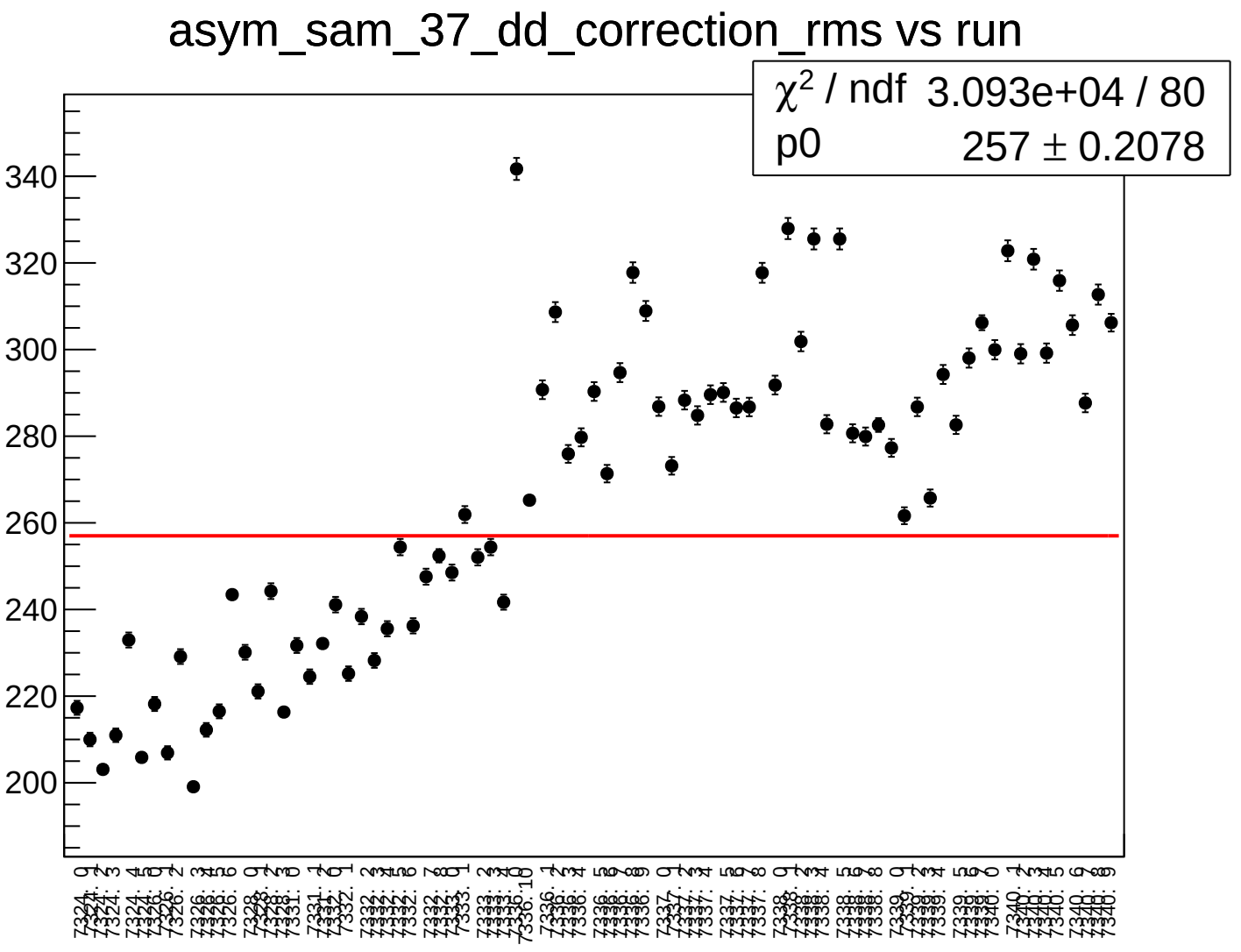

reg_asym_sam_37_dd_mean vs run
χ² / ndf 64.73 / 80
p0 −29.79 ± 52.35
pull
Entries 81
Mean 184.4
Std Dev 145.5

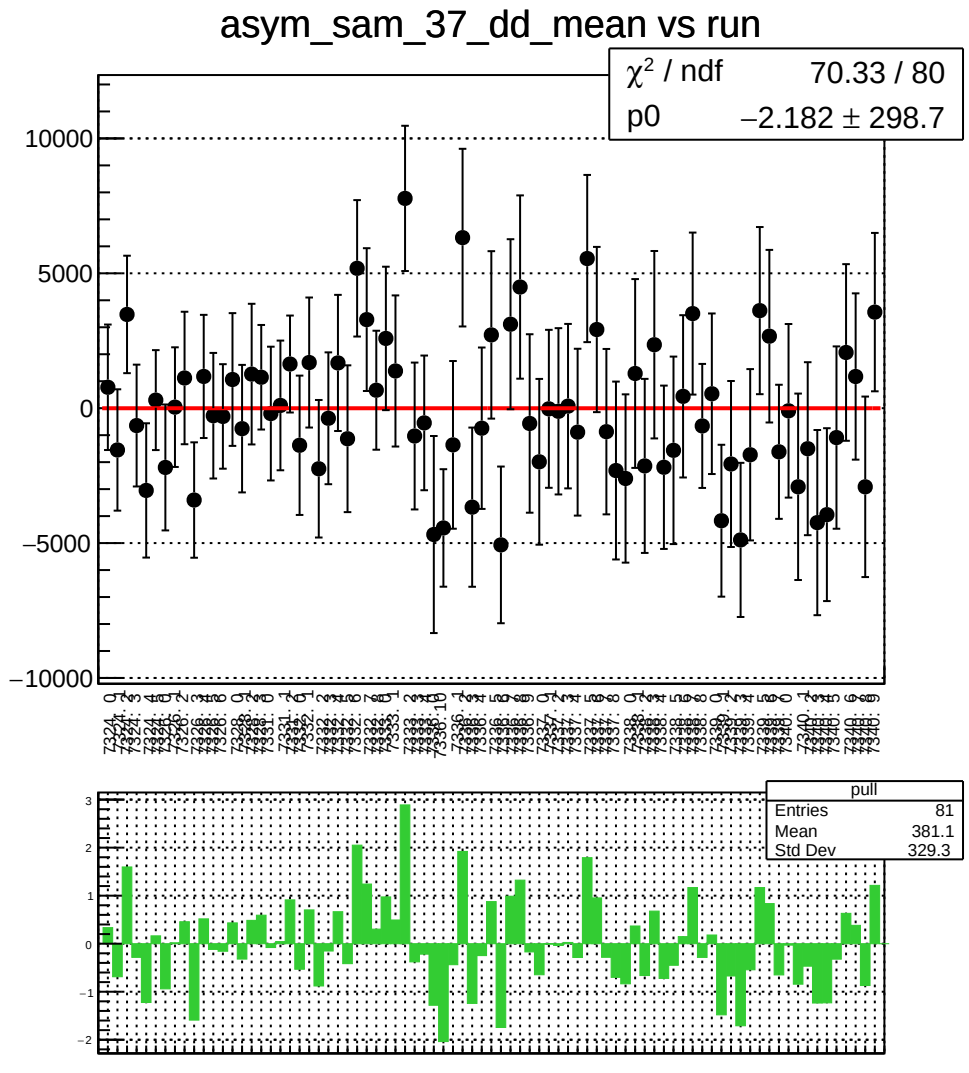

pull1D
Entries 81
Mean −0.03495
Std Dev 0.8933

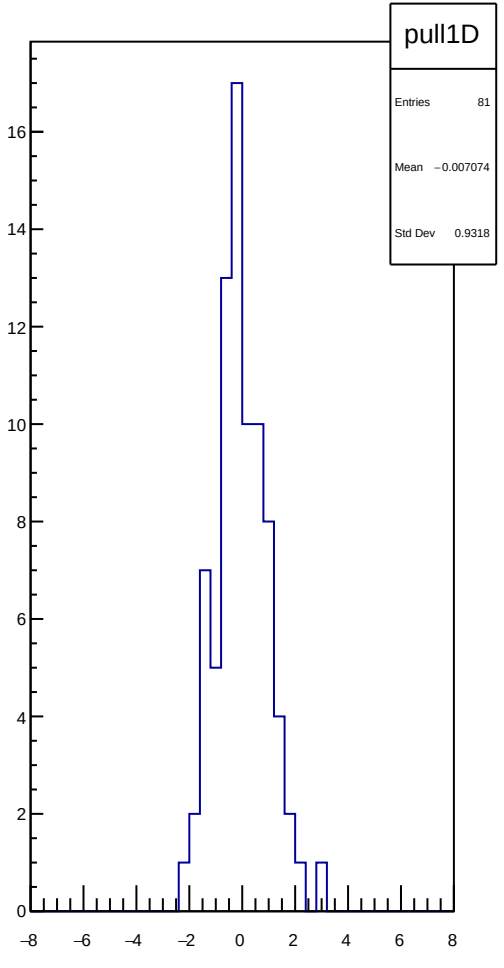

reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 3.462e+04 / 80
p0 45.72 ± 0.03702
80
70
60
50
40

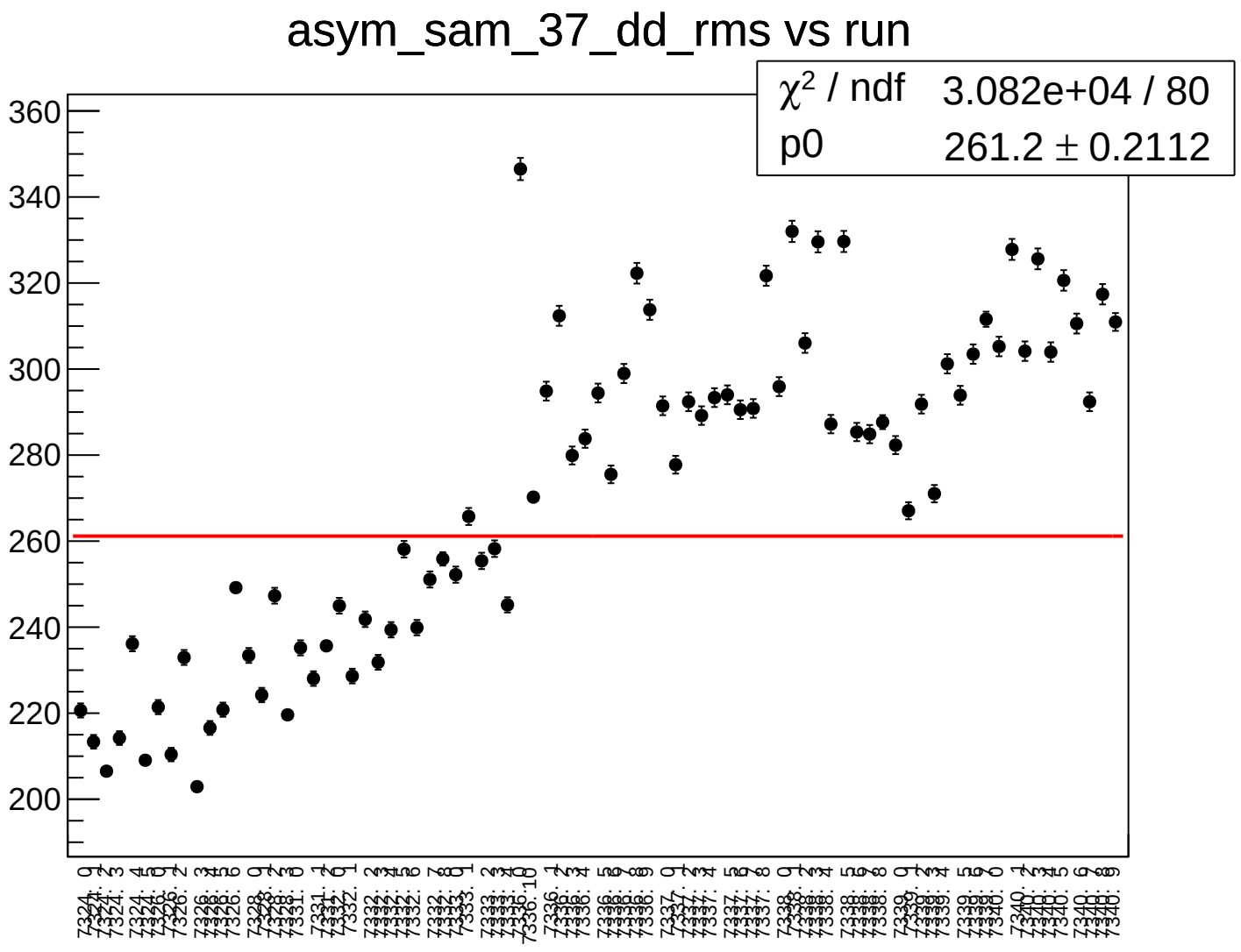

asym_sam_37_dd_correction_mean vs run
χ² / ndf 72.3 / 80
p0 −30.73 ± 293.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 1199
Std Dev 1139
2
1
0
−1
−2
−3

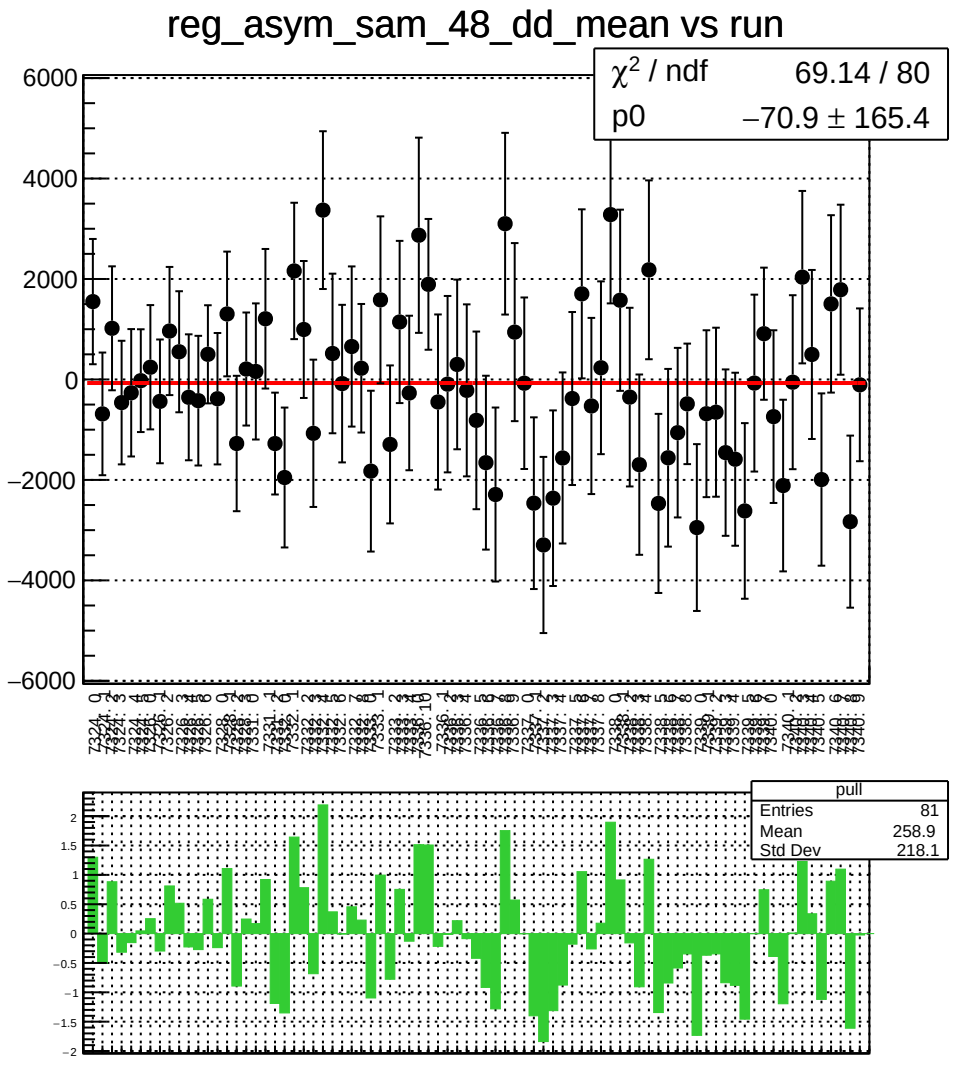

pull1D
Entries 81
Mean 0.001289
Std Dev 0.9448
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

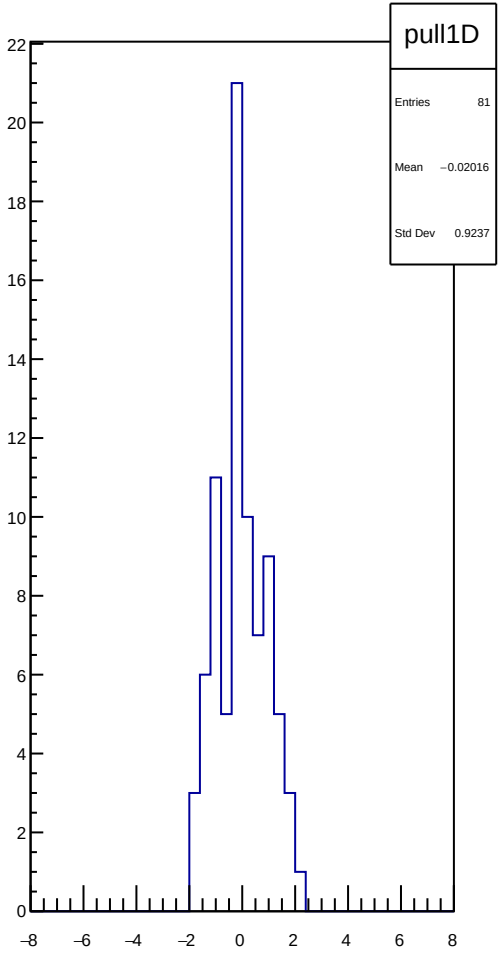

asym_sam_37_dd_correction_rms vs run
χ² / ndf 3.093e+04 / 80
p0 257 ± 0.2078
340
320
300
280
260
240
220
200

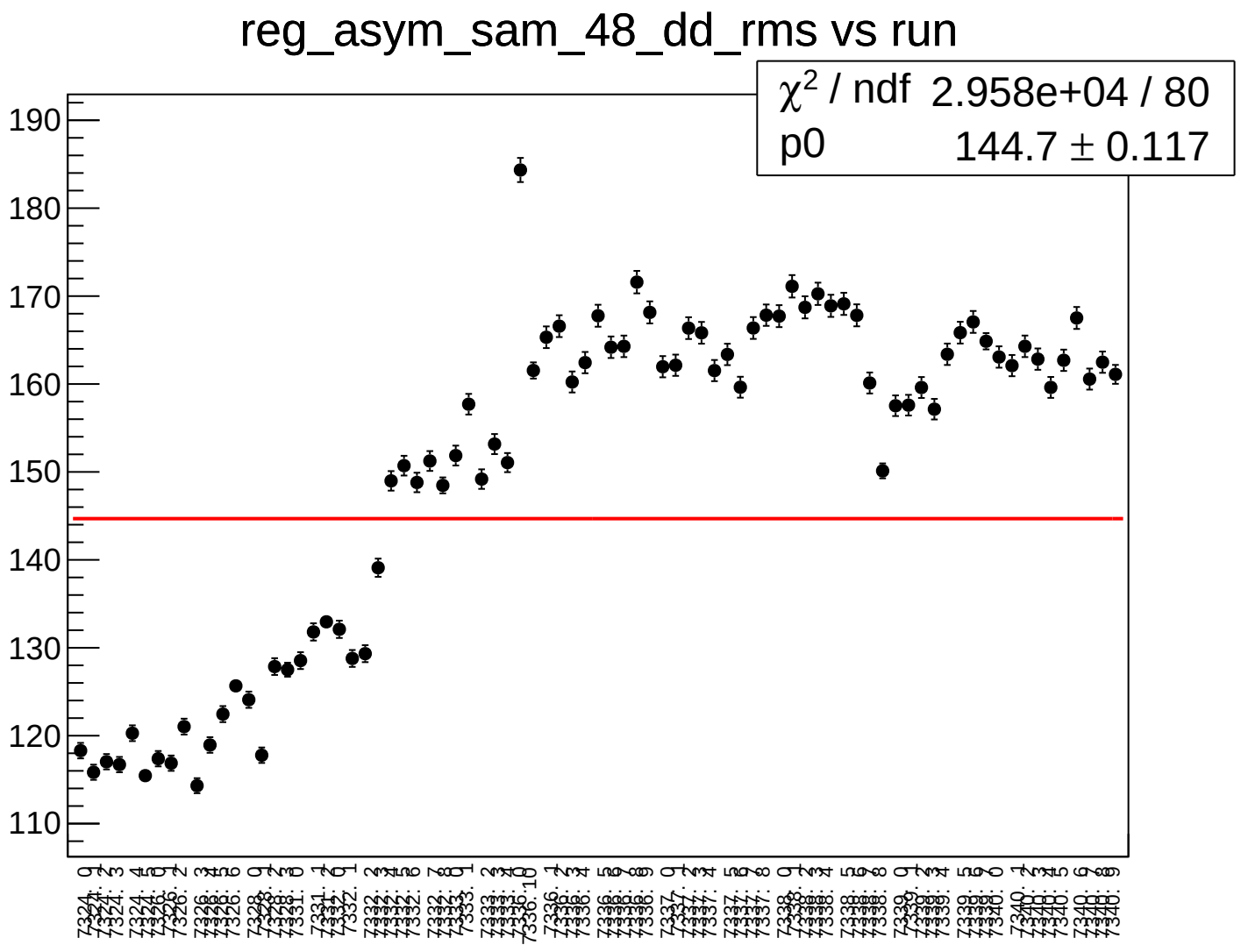

asym_sam_37_dd_mean vs run
χ² / ndf 70.33 / 80
p0 −2.182 ± 298.7
pull
Entries 81
Mean 381.1
Std Dev 329.3

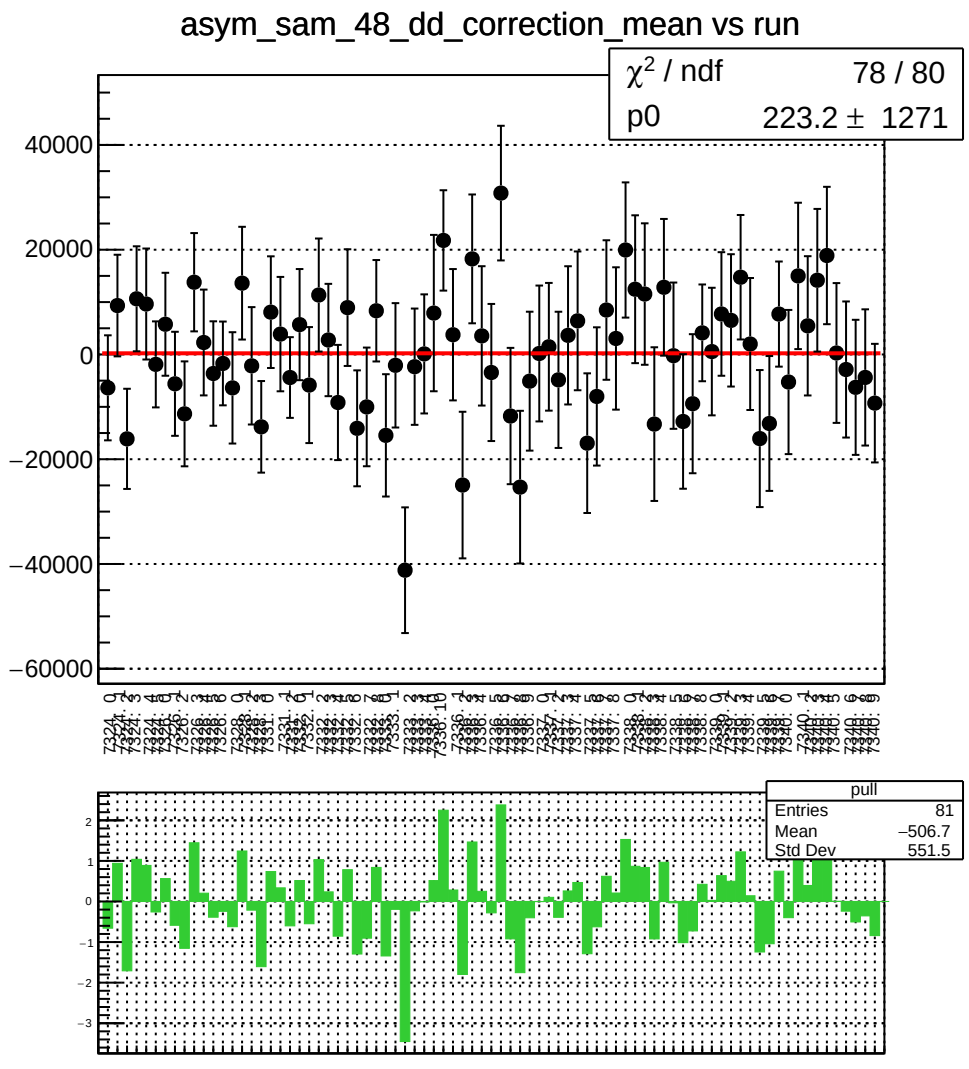

pull1D
Entries 81
Mean −0.007074
Std Dev 0.9318

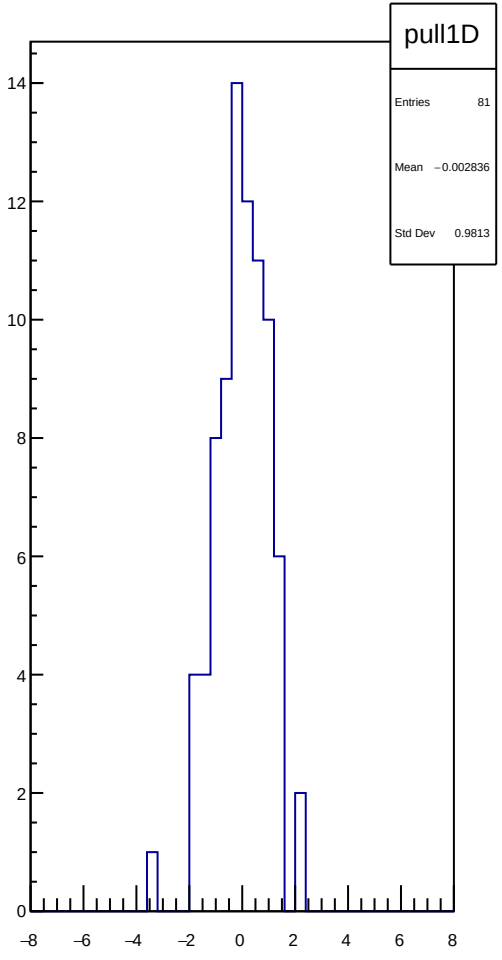

asym_sam_37_dd_rms vs run
χ^2 / ndf 3.082e+04 / 80
p0 261.2 ± 0.2112
360
340
320
300
280
260
240
220
200

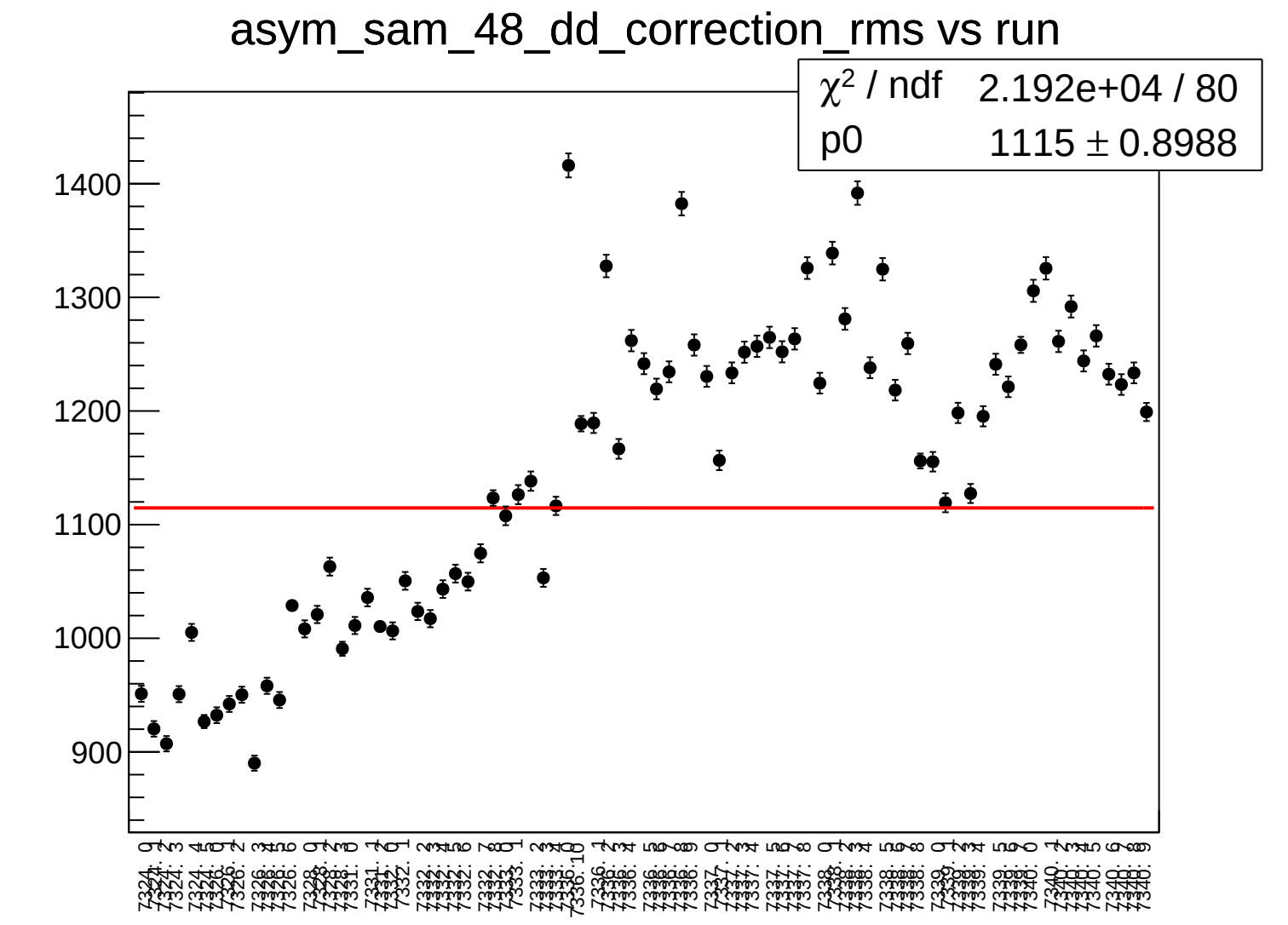

reg_asym_sam_48_dd_mean vs run
χ² / ndf 69.14 / 80
p0 −70.9 ± 165.4
pull
Entries 81
Mean 258.9
Std Dev 218.1

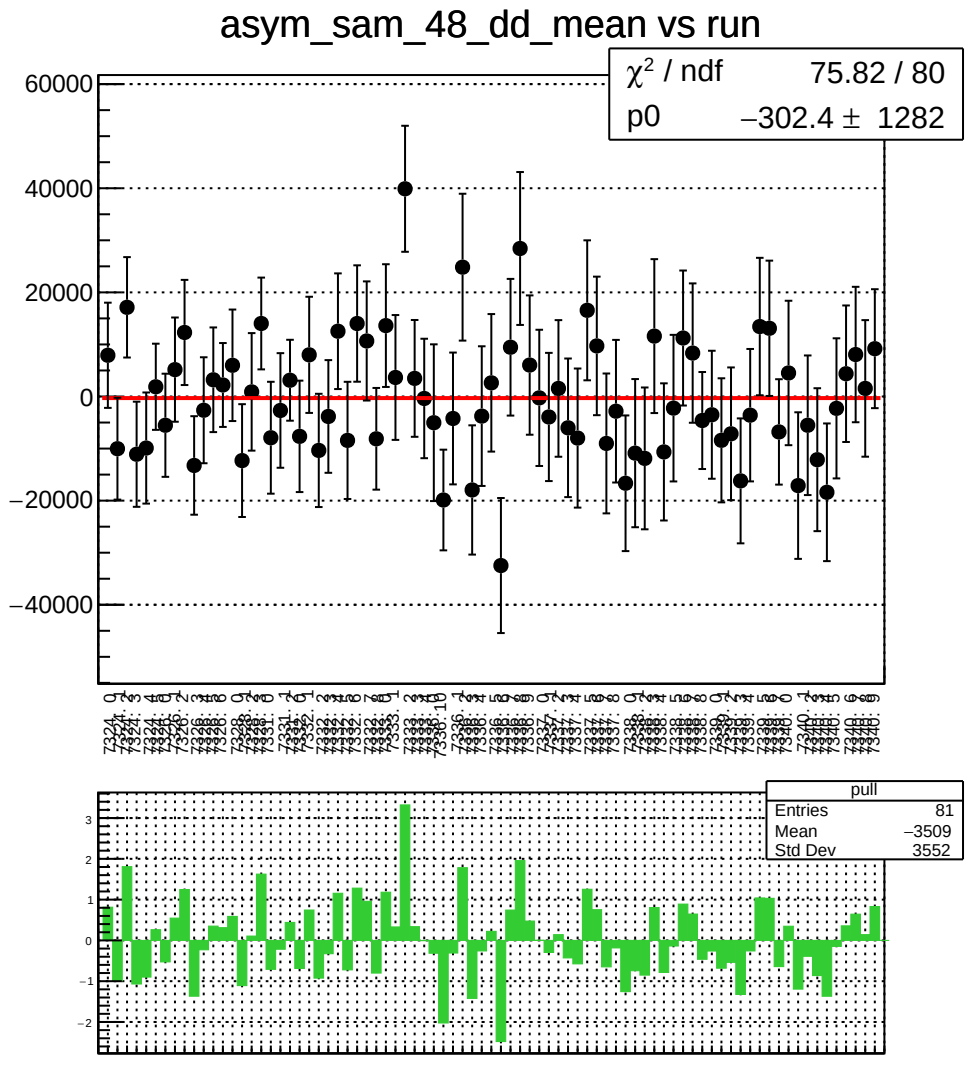

pull1D
Entries 81
Mean −0.02016
Std Dev 0.9237

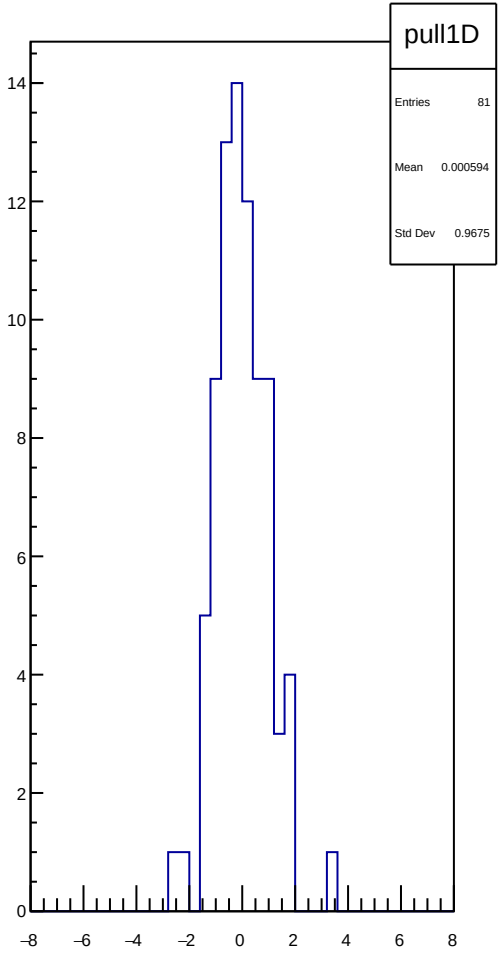

reg_asym_sam_48_dd_rms vs run
χ² / ndf 2.958e+04 / 80
p0 144.7 ± 0.117
190
180
170
160
150
140
130
120
110

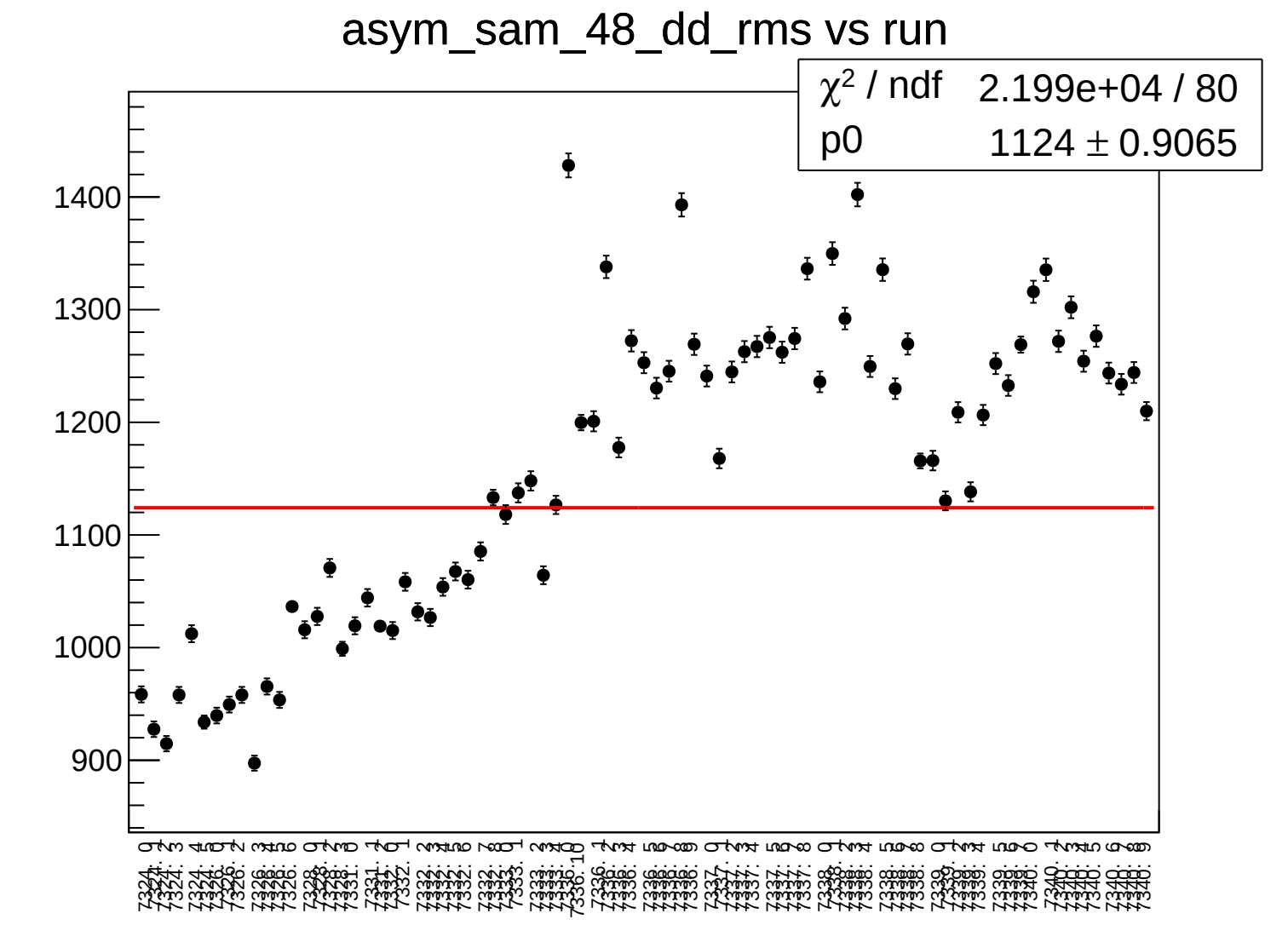

asym_sam_48_dd_correction_mean vs run
χ² / ndf 78 / 80
p0 223.2 ± 1271
40000
20000
0
−20000
−40000
−60000
pull
Entries 81
Mean −506.7
Std Dev 551.5
2
1
0
−1
−2
−3

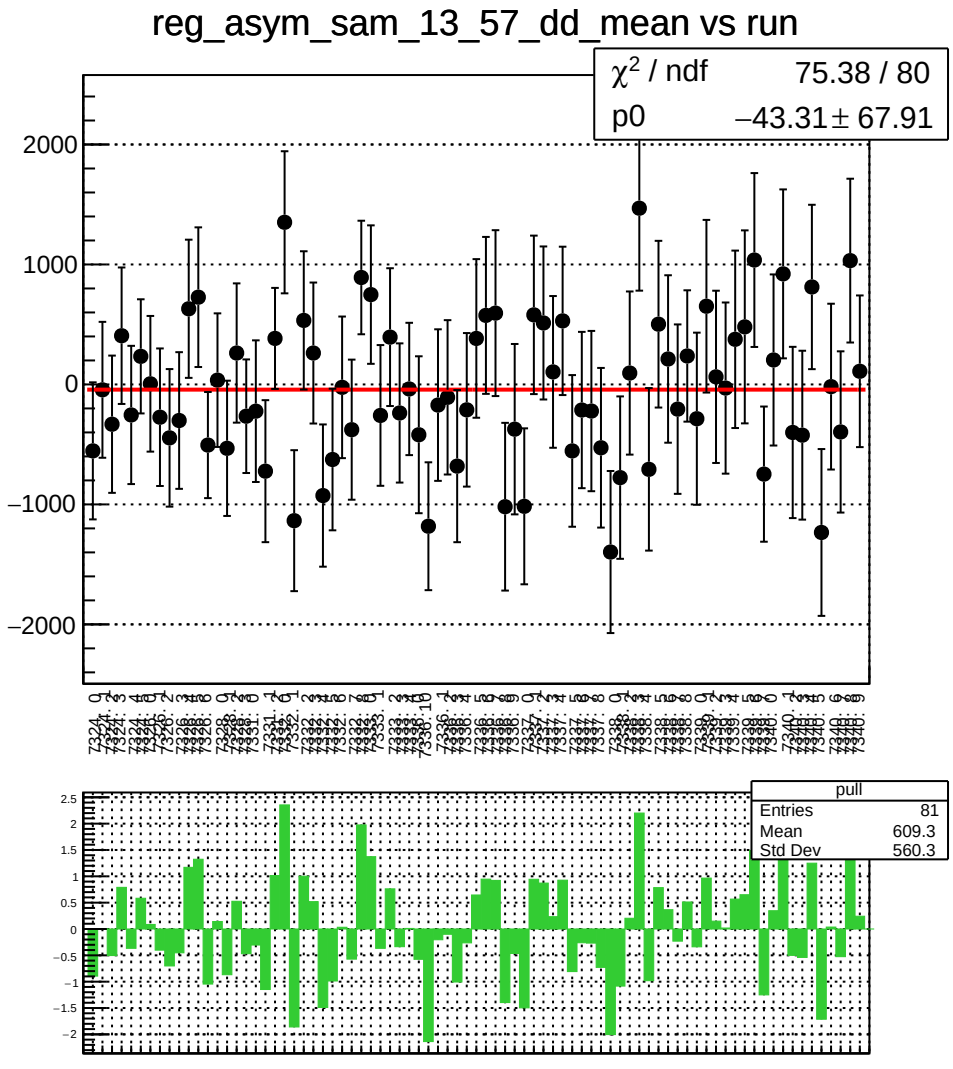

pull1D
Entries 81
Mean −0.002836
Std Dev 0.9813
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

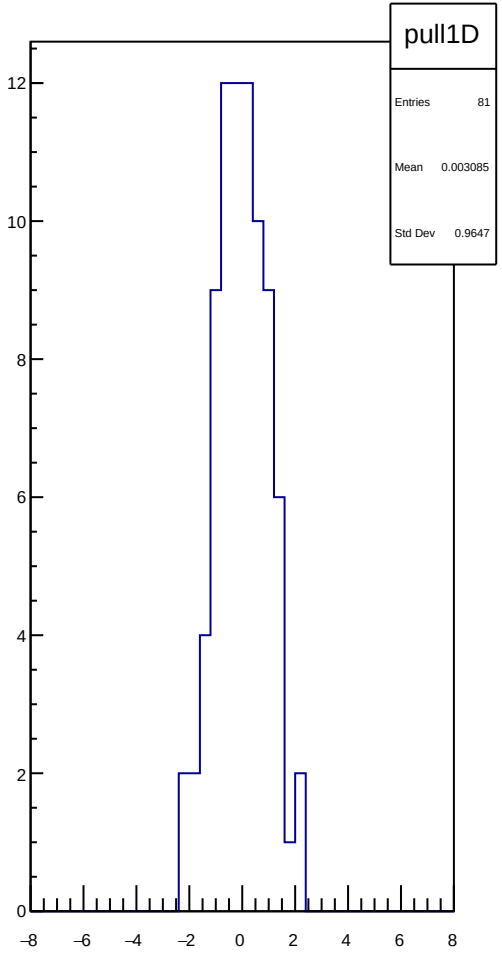

asym_sam_48_dd_correction_rms vs run
χ² / ndf 2.192e+04 / 80
p0 1115 ± 0.8988
1400
1300
1200
1100
1000
900

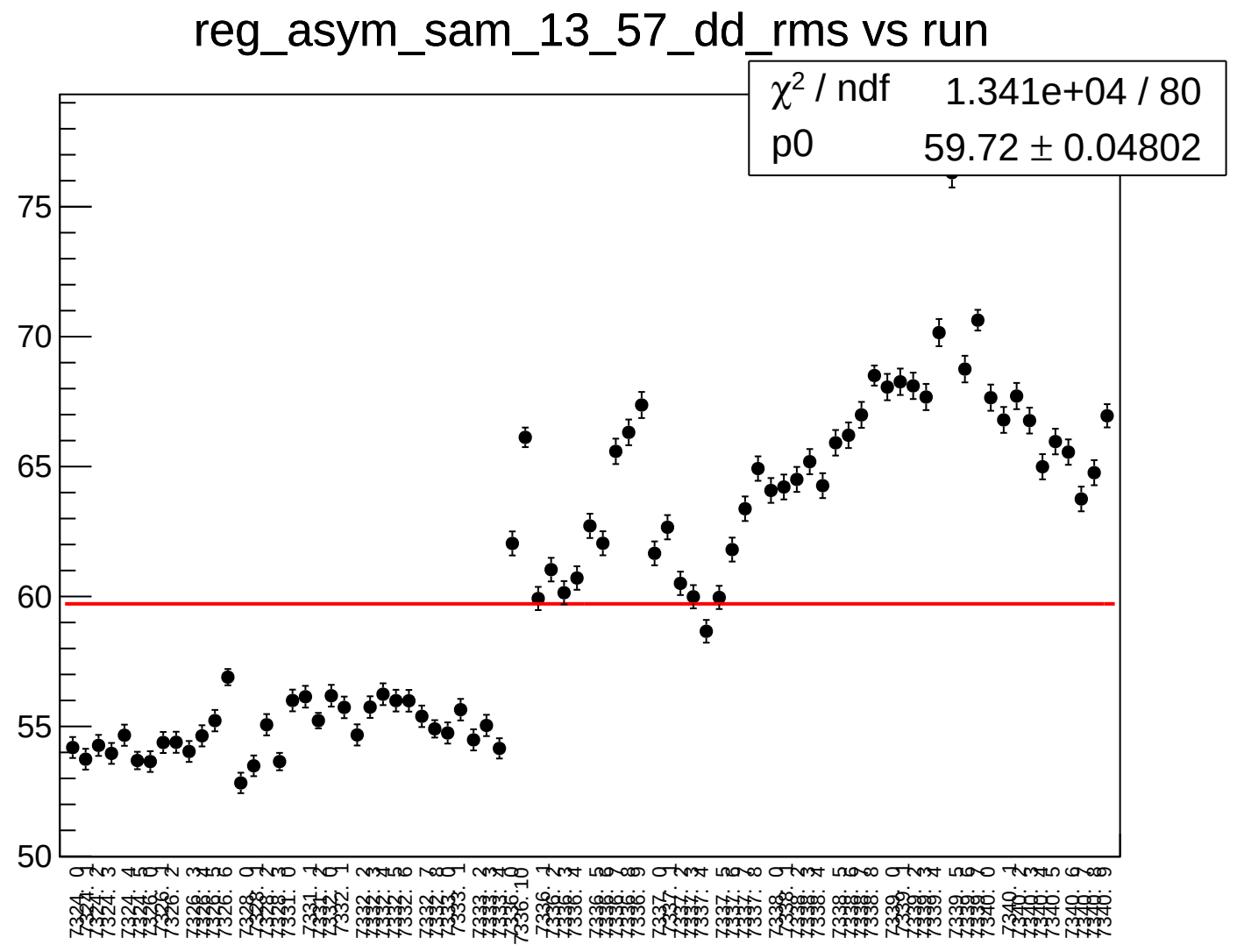

asym_sam_48_dd_mean vs run
χ² / ndf 75.82 / 80
p0 −302.4 ± 1282
pull
Entries 81
Mean −3509
Std Dev 3552

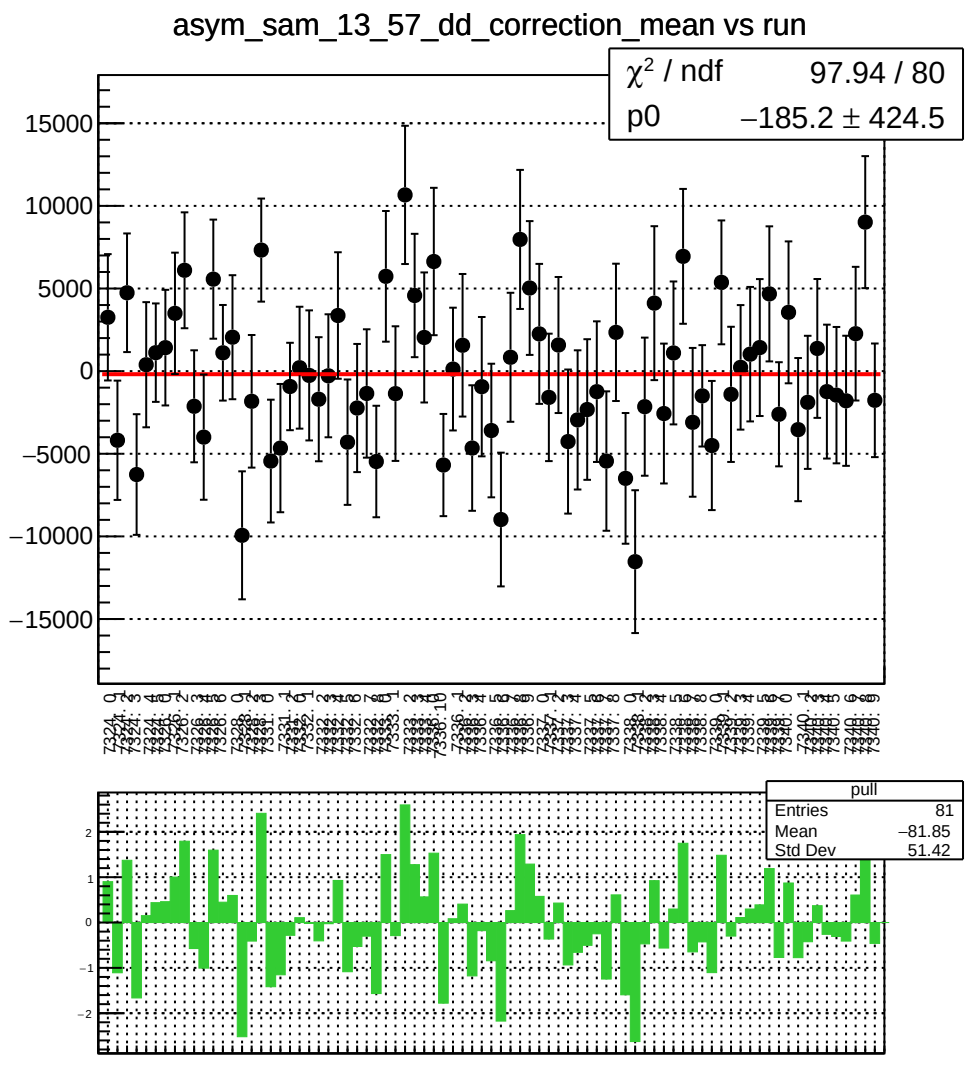

pull1D
Entries 81
Mean 0.000594
Std Dev 0.9675

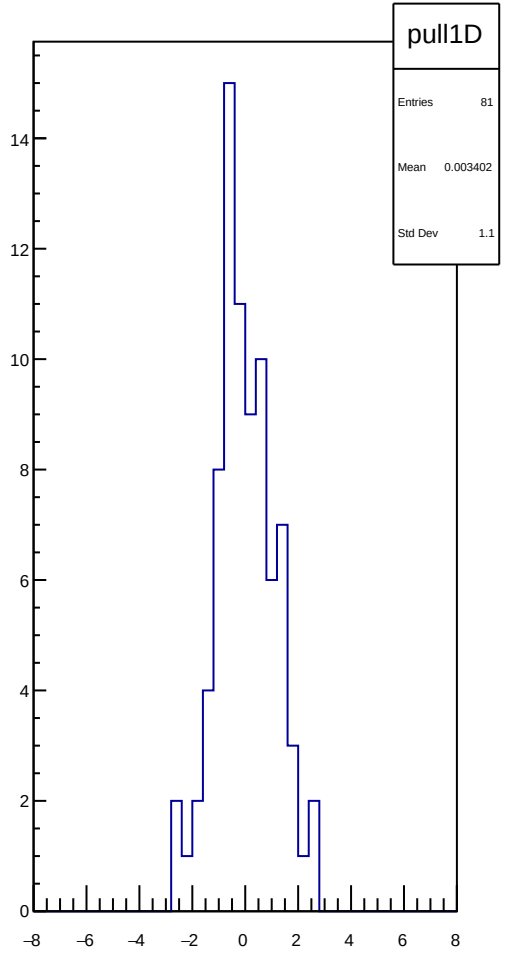

asym_sam_48_dd_rms vs run
χ² / ndf 2.199e+04 / 80
p0 1124 ± 0.9065
1400
1300
1200
1100
1000
900

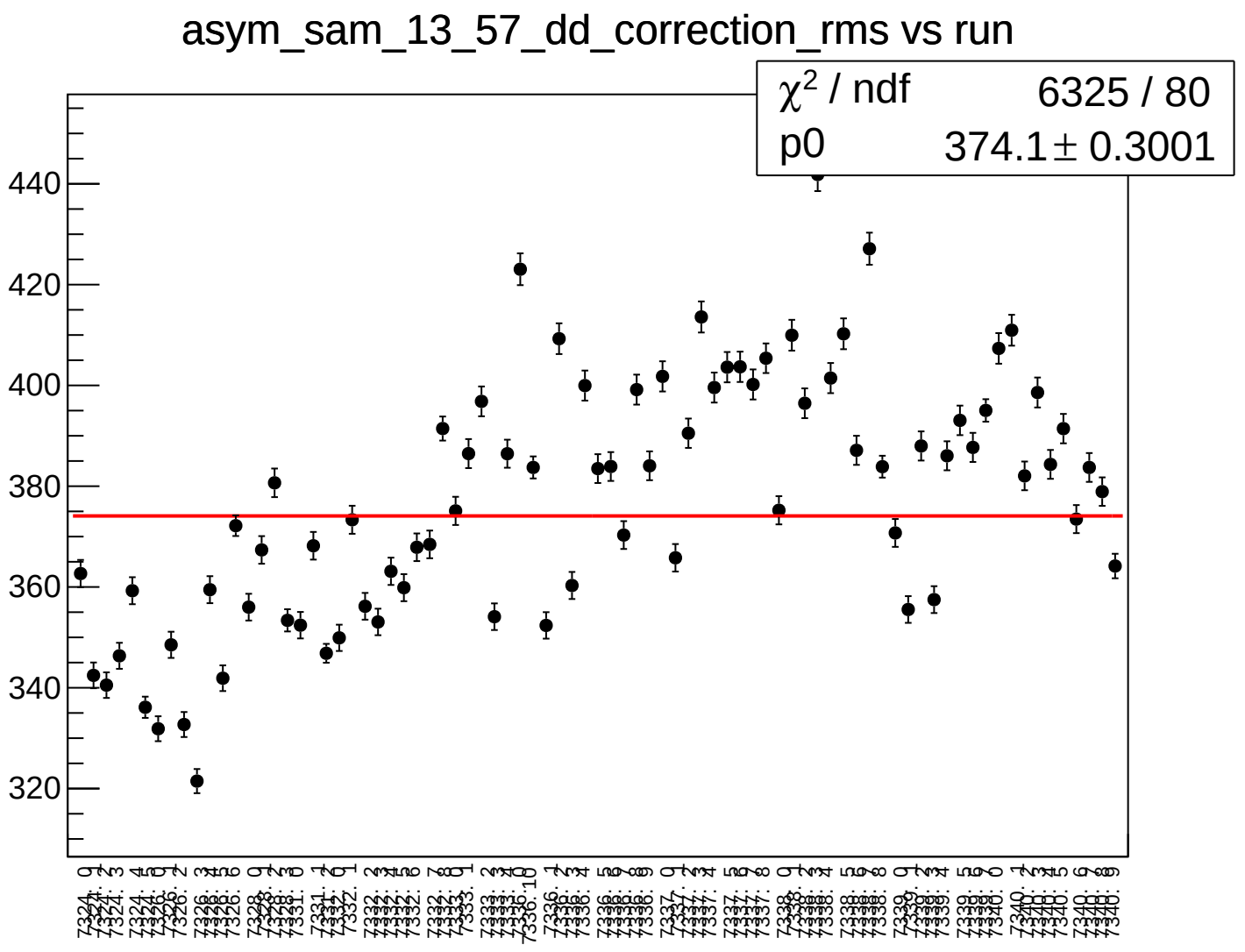

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 75.38 / 80
p0 −43.31 ± 67.91
pull
Entries 81
Mean 609.3
Std Dev 560.3

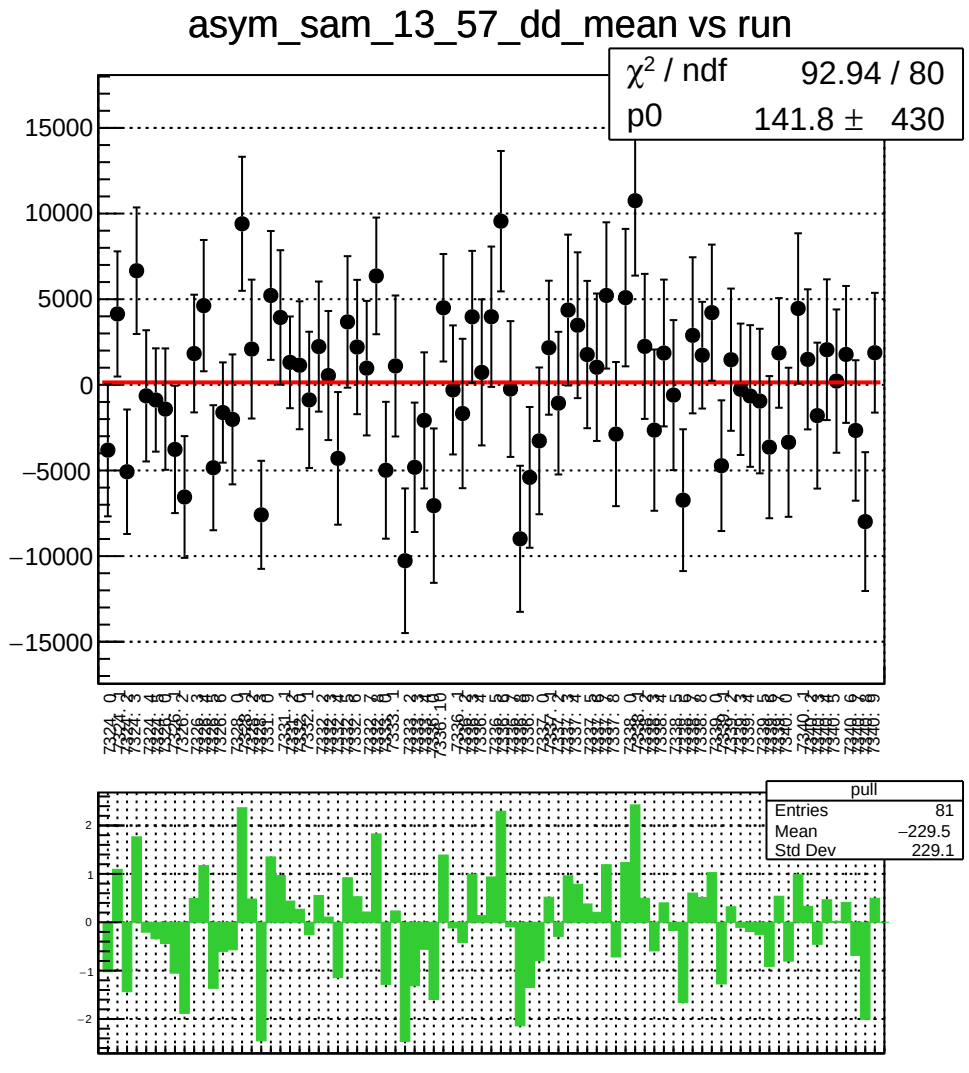

pull1D
Entries 81
Mean 0.003085
Std Dev 0.9647

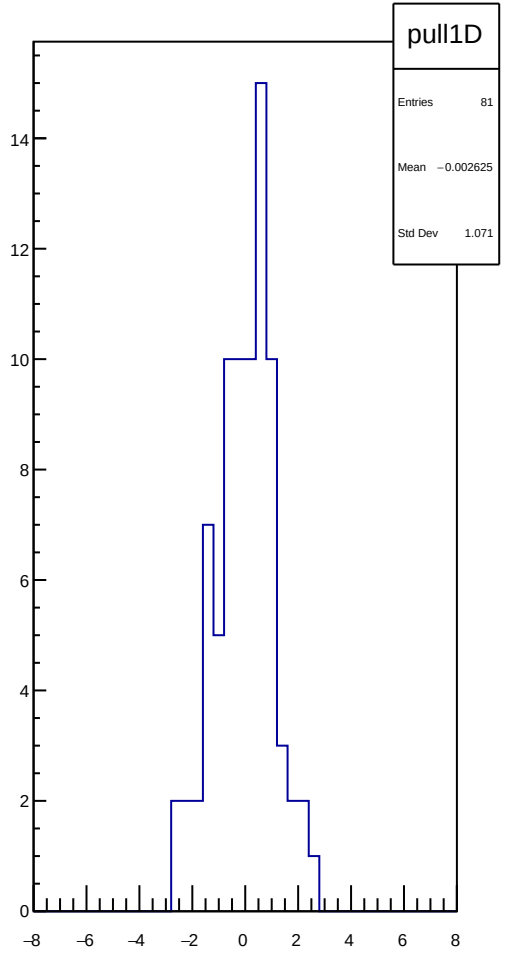

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 1.341e+04 / 80
p0 59.72 ± 0.04802
75
70
65
60
55
50

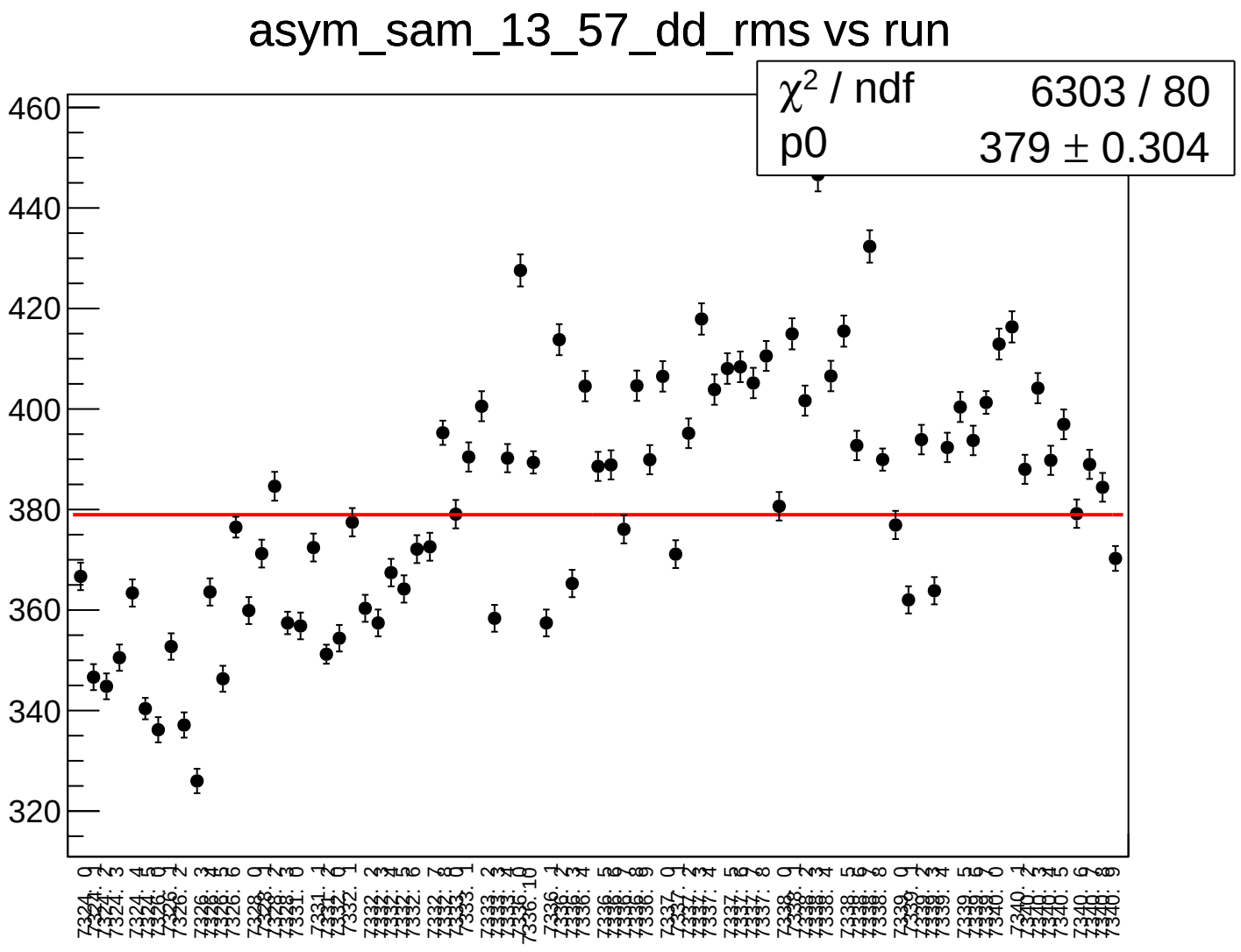

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 97.94 / 80
p0 −185.2 ± 424.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −81.85
Std Dev 51.42
2
1
0
−1
−2

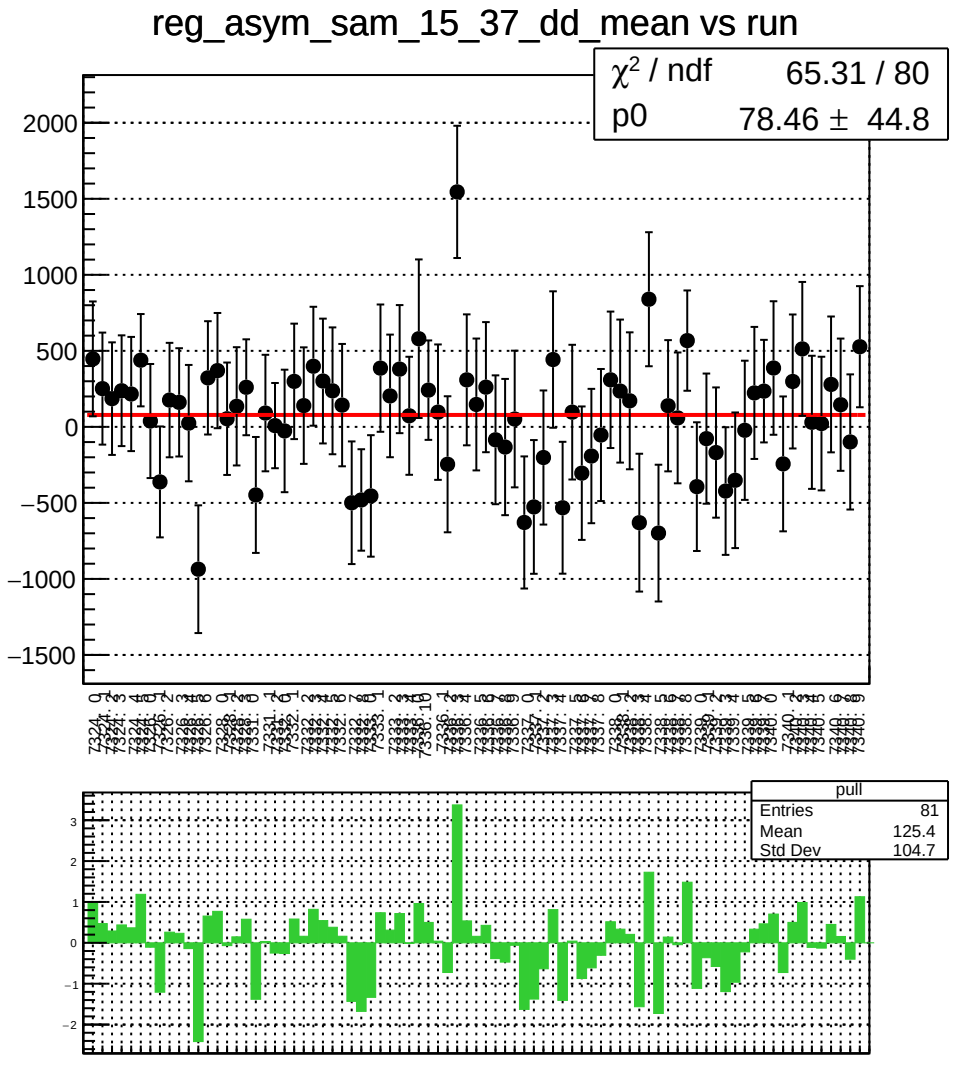

pull1D
Entries 81
Mean 0.003402
Std Dev 1.1
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

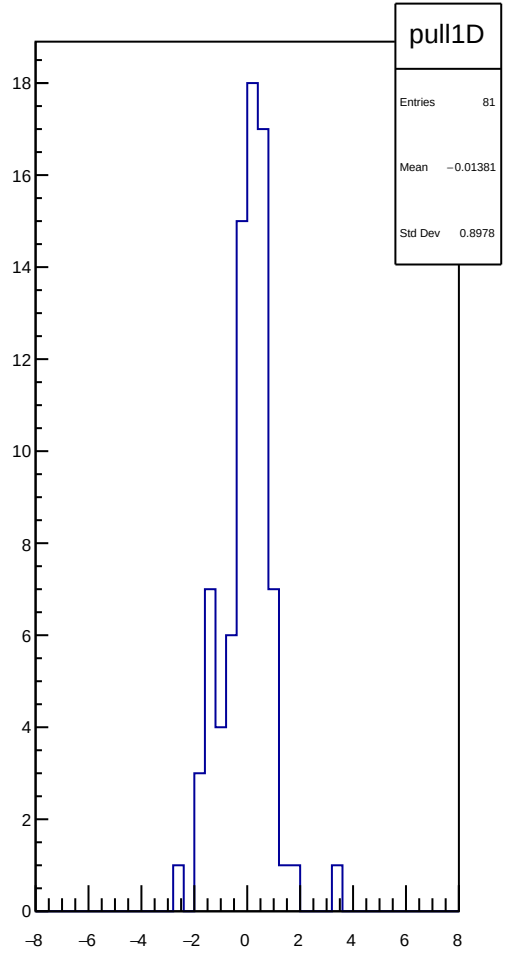

asym_sam_13_57_dd_correction_rms vs run
χ^2 / ndf 6325 / 80
p0 374.1 ± 0.3001
440
420
400
380
360
340
320

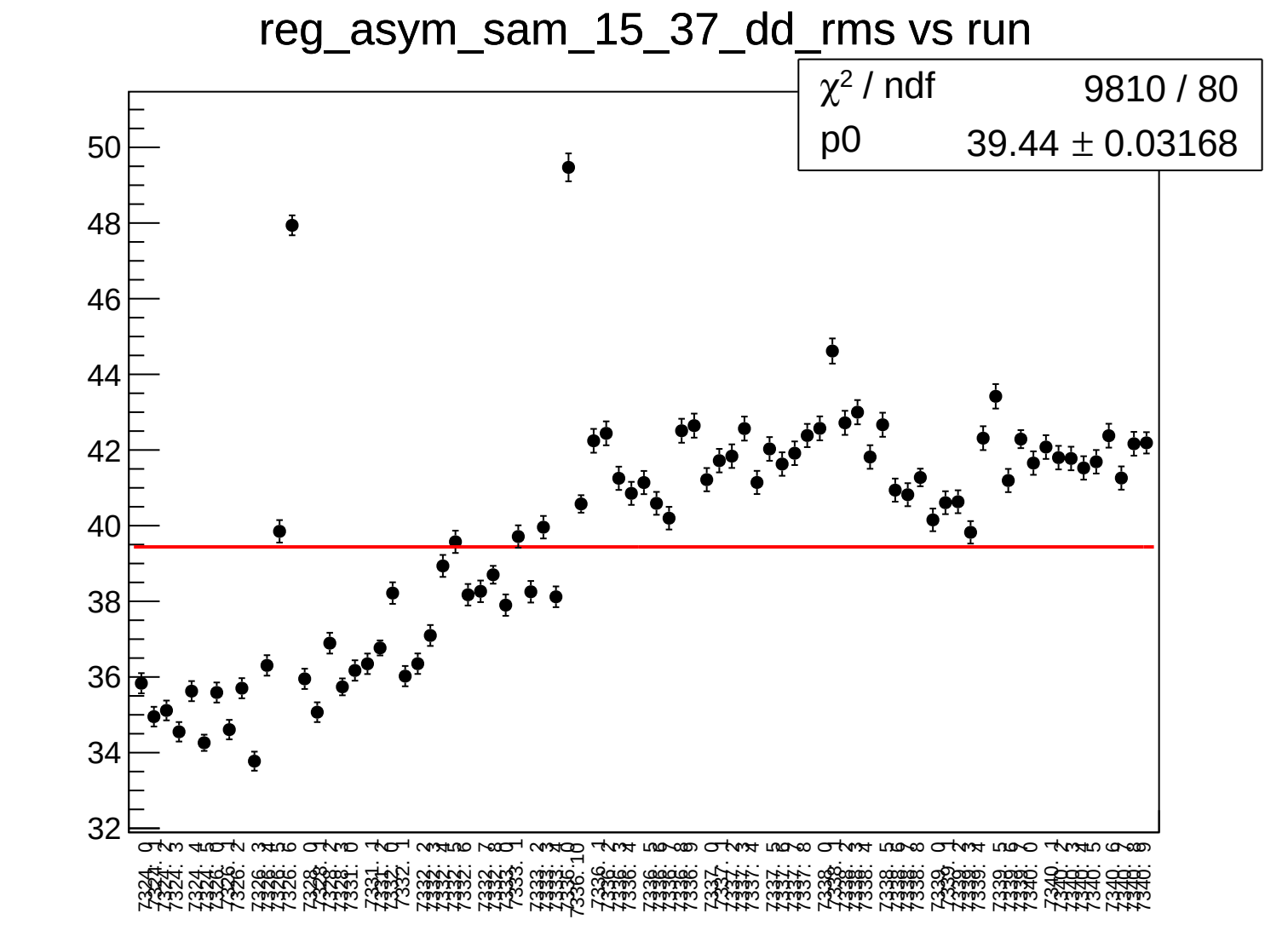

asym_sam_13_57_dd_mean vs run
χ² / ndf 92.94 / 80
p0 141.8 ± 430
pull
Entries 81
Mean −229.5
Std Dev 229.1

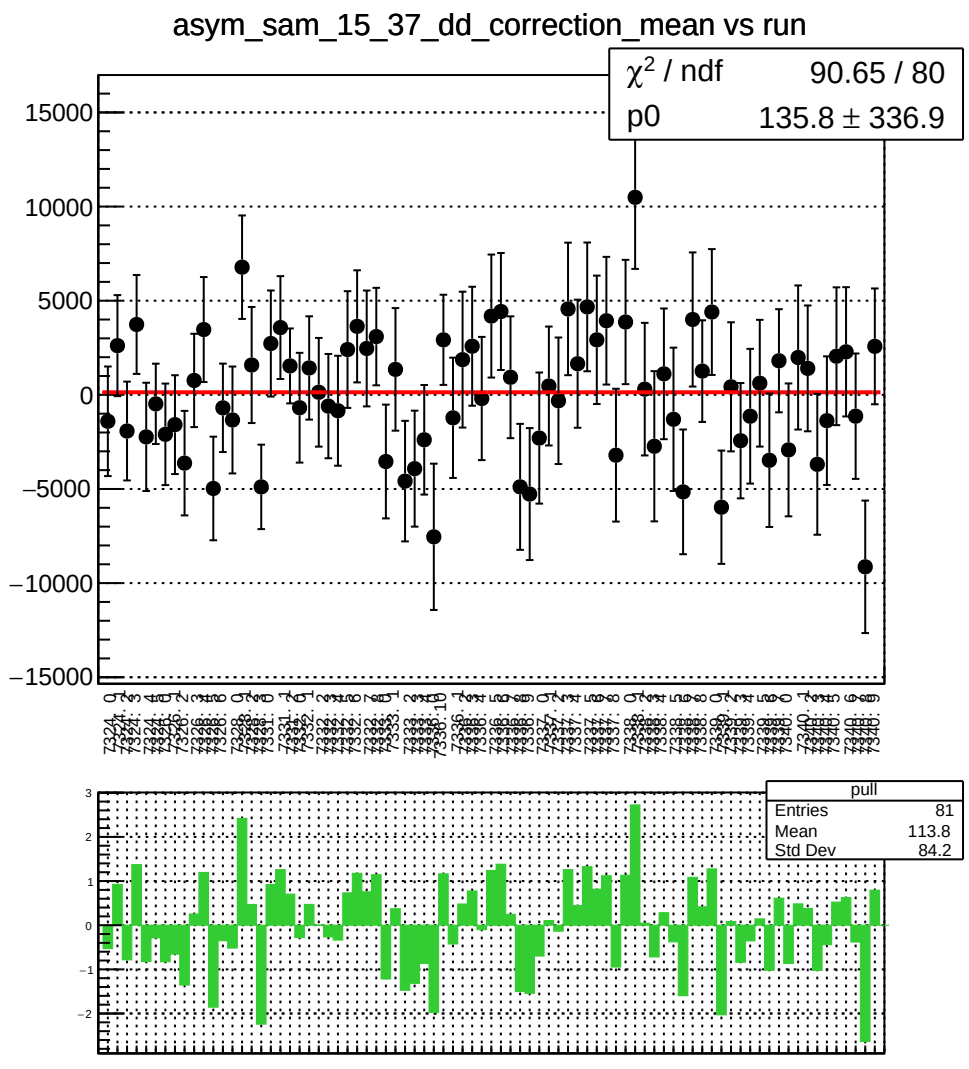

pull1D
Entries 81
Mean −0.002625
Std Dev 1.071

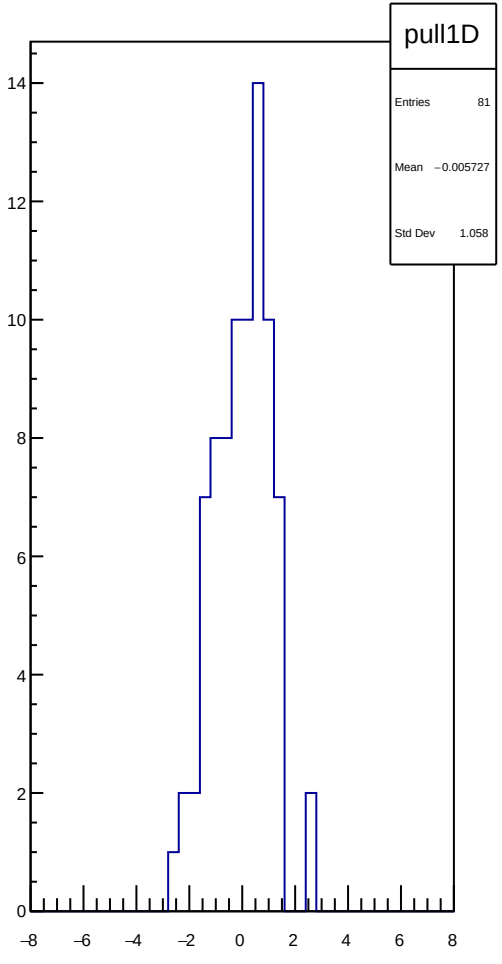

asym_sam_13_57_dd_rms vs run
χ² / ndf 6303 / 80
p0 379 ± 0.304
460
440
420
400
380
360
340
320

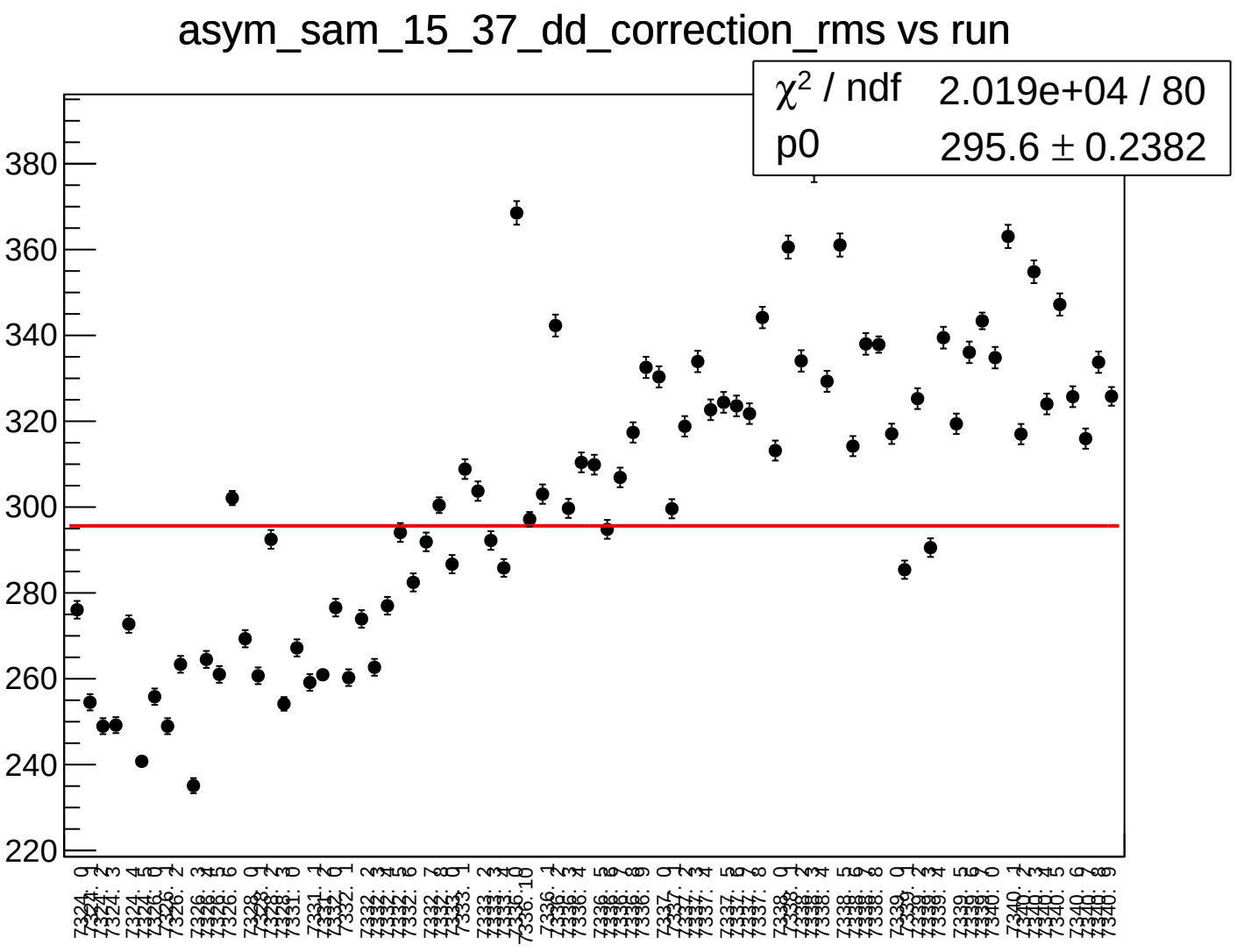

reg_asym_sam_15_37_dd_mean vs run
χ² / ndf 65.31 / 80
p0 78.46 ± 44.8
pull
Entries 81
Mean 125.4
Std Dev 104.7

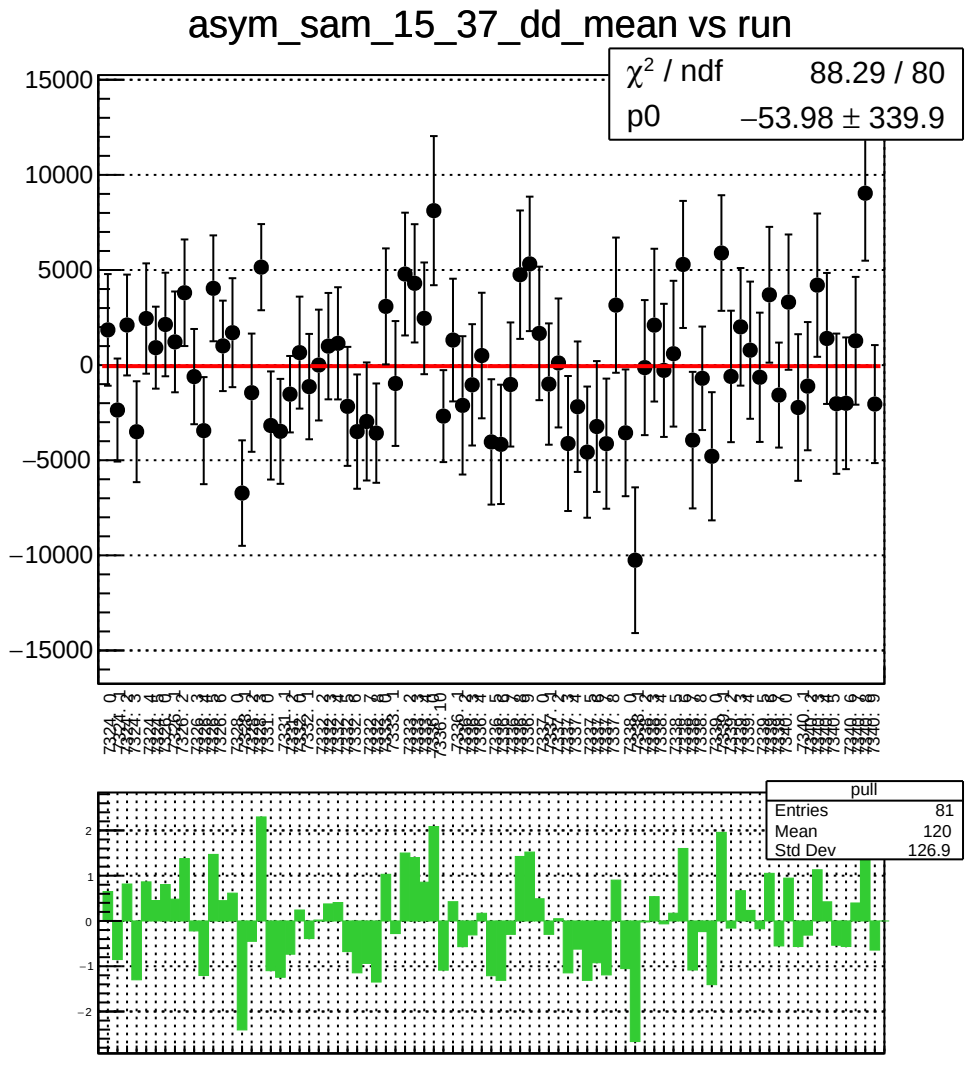

pull1D
Entries 81
Mean −0.01381
Std Dev 0.8978

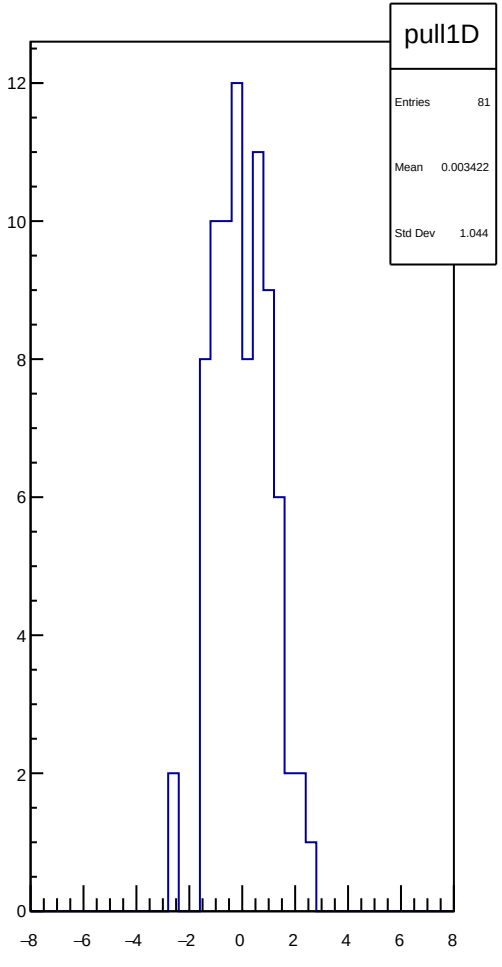

reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 9810 / 80
p0 39.44 ± 0.03168
50
48
46
44
42
40
38
36
34
32

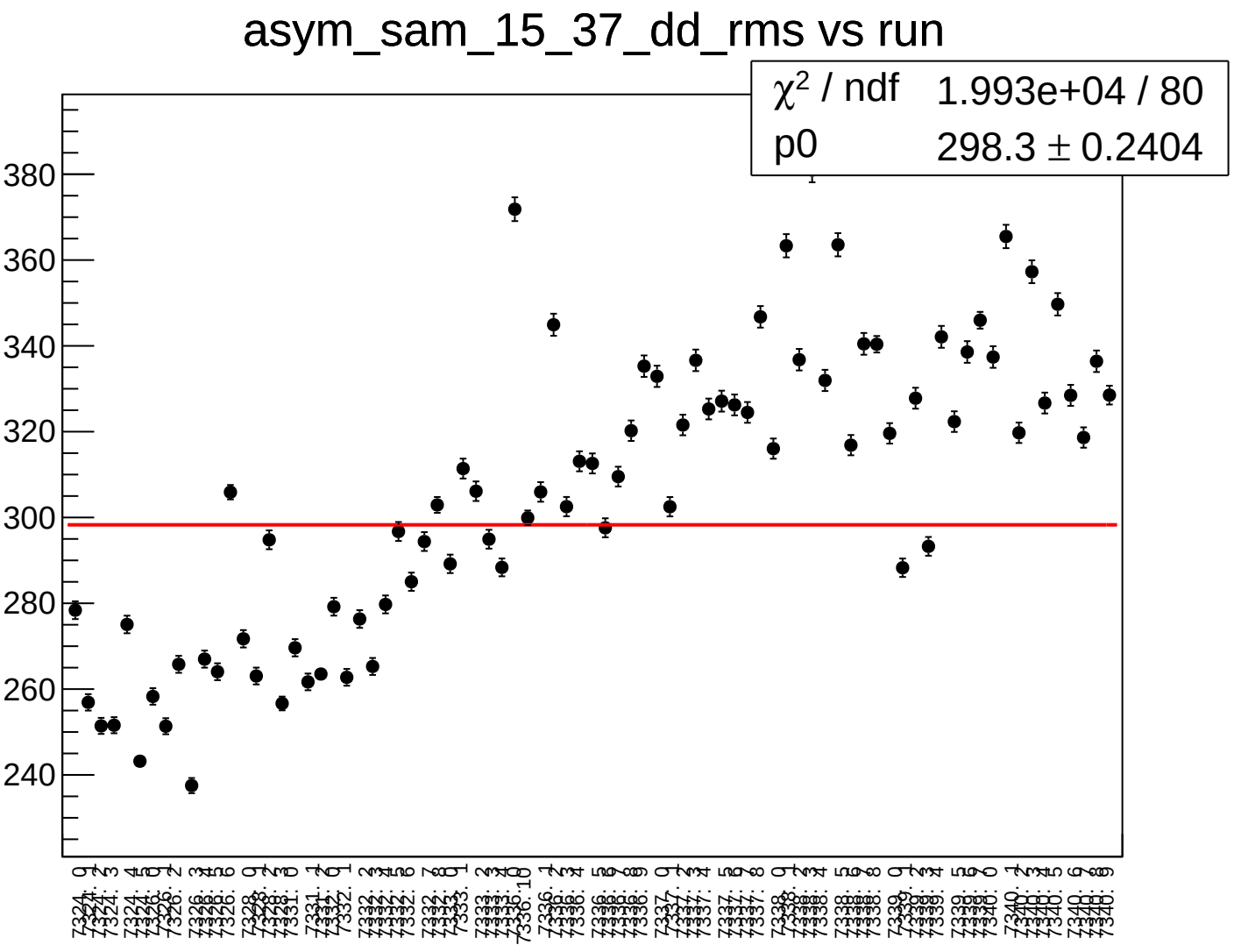

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 90.65 / 80
p0 135.8 ± 336.9
pull
Entries 81
Mean 113.8
Std Dev 84.2

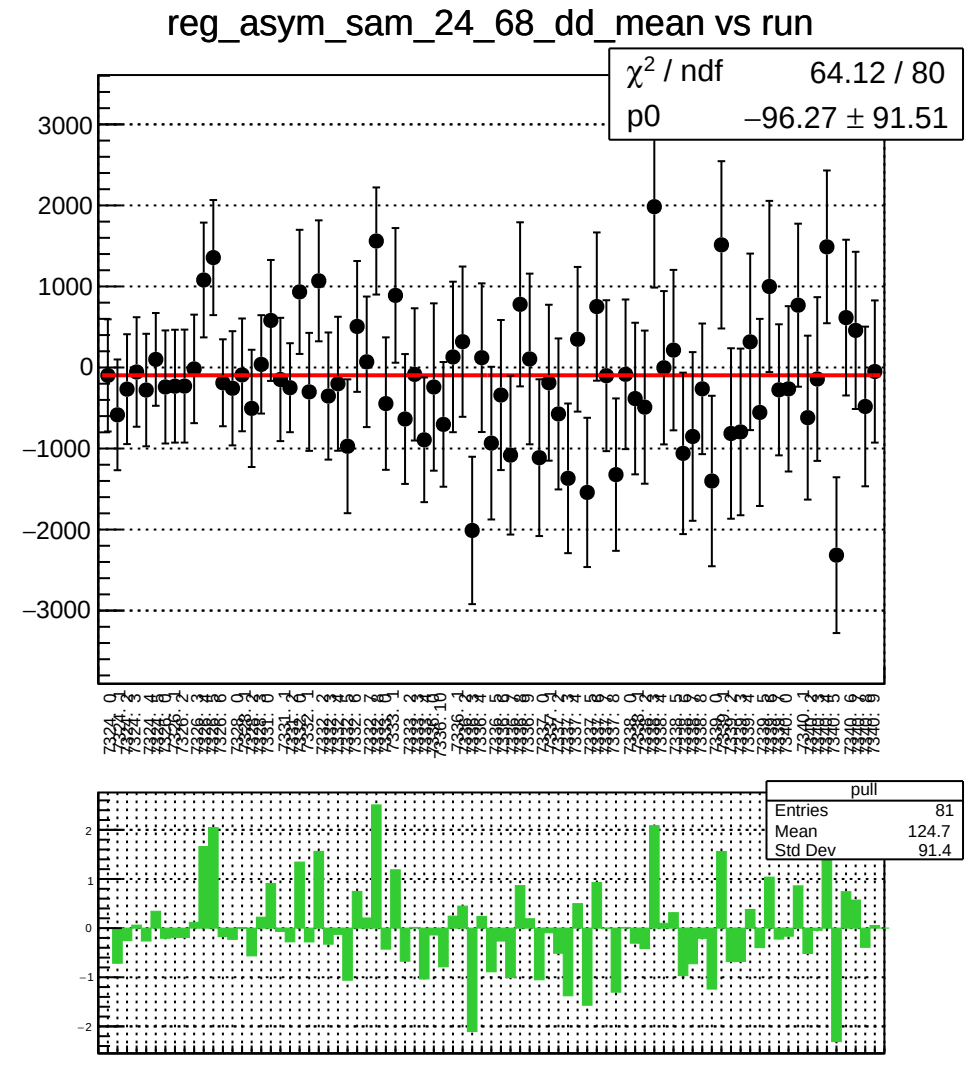

pull1D
Entries 81
Mean −0.005727
Std Dev 1.058

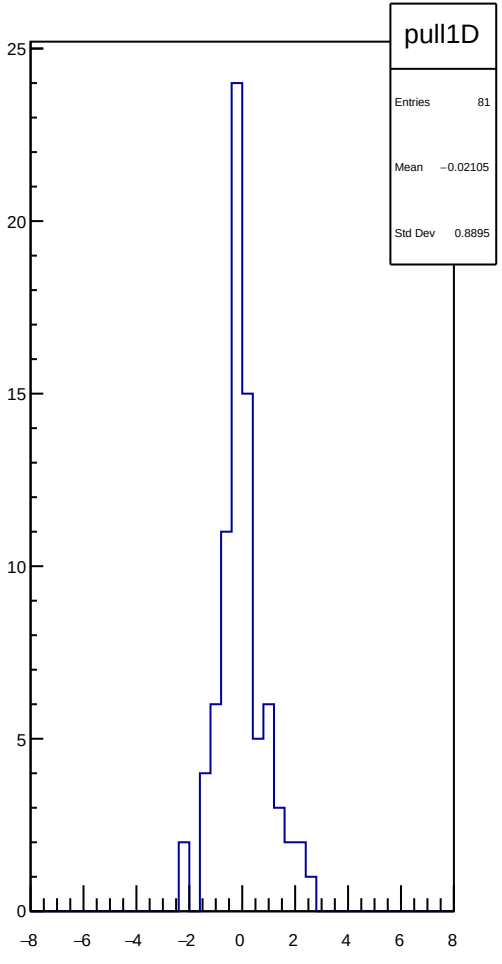

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 2.019e+04 / 80
p0 295.6 ± 0.2382
380
360
340
320
300
280
260
240
220

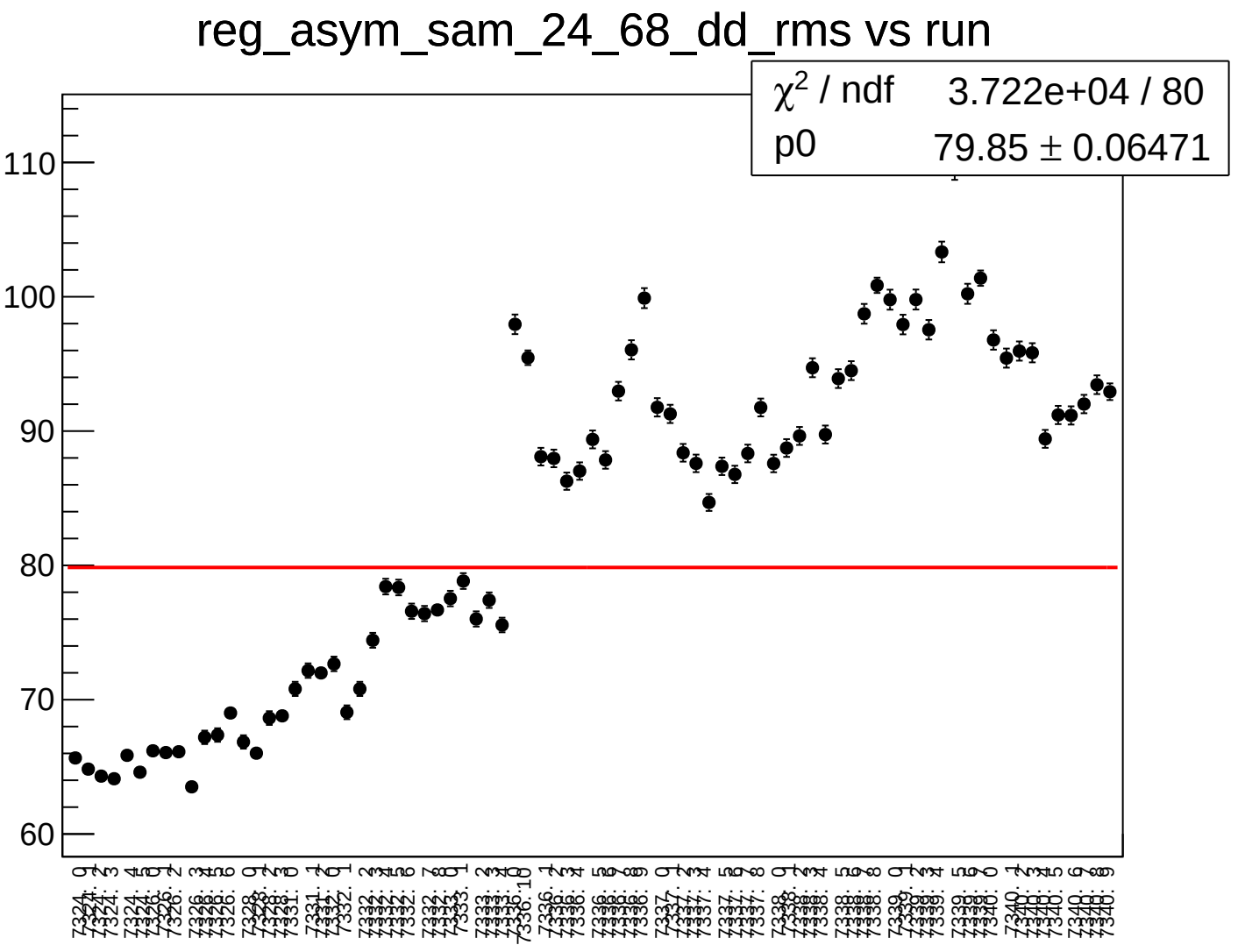

asym_sam_15_37_dd_mean vs run
χ² / ndf 88.29 / 80
p0 −53.98 ± 339.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 120
Std Dev 126.9
2
1
0
−1
−2

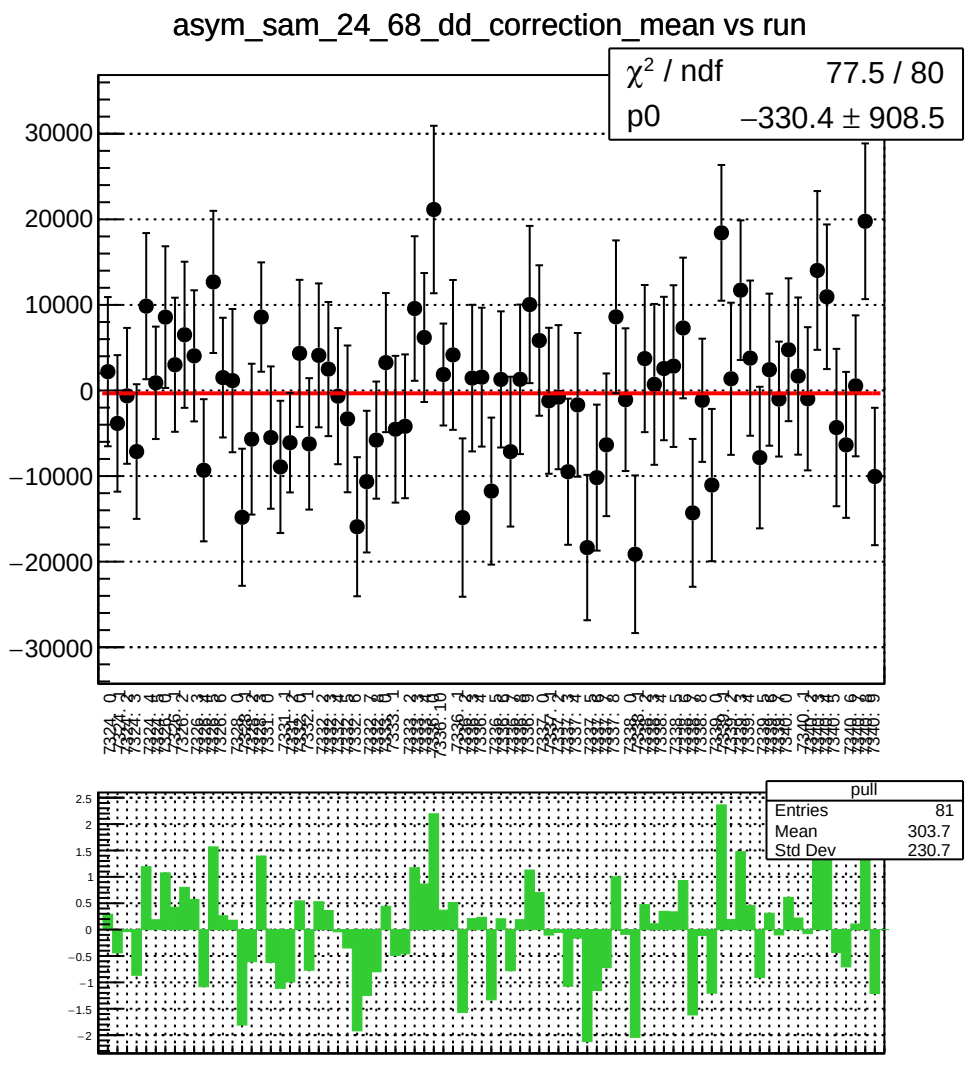

pull1D
Entries 81
Mean 0.003422
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

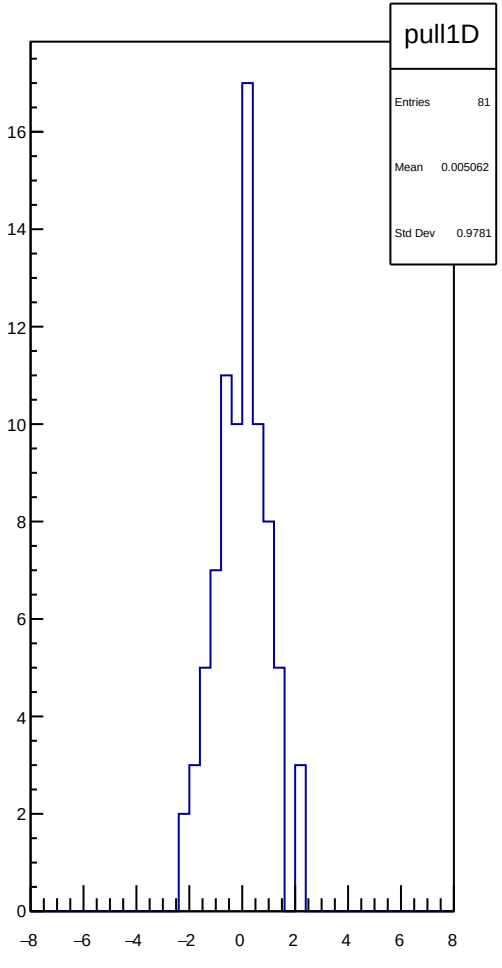

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.993e+04 / 80
p0 298.3 ± 0.2404
380
360
340
320
300
280
260
240

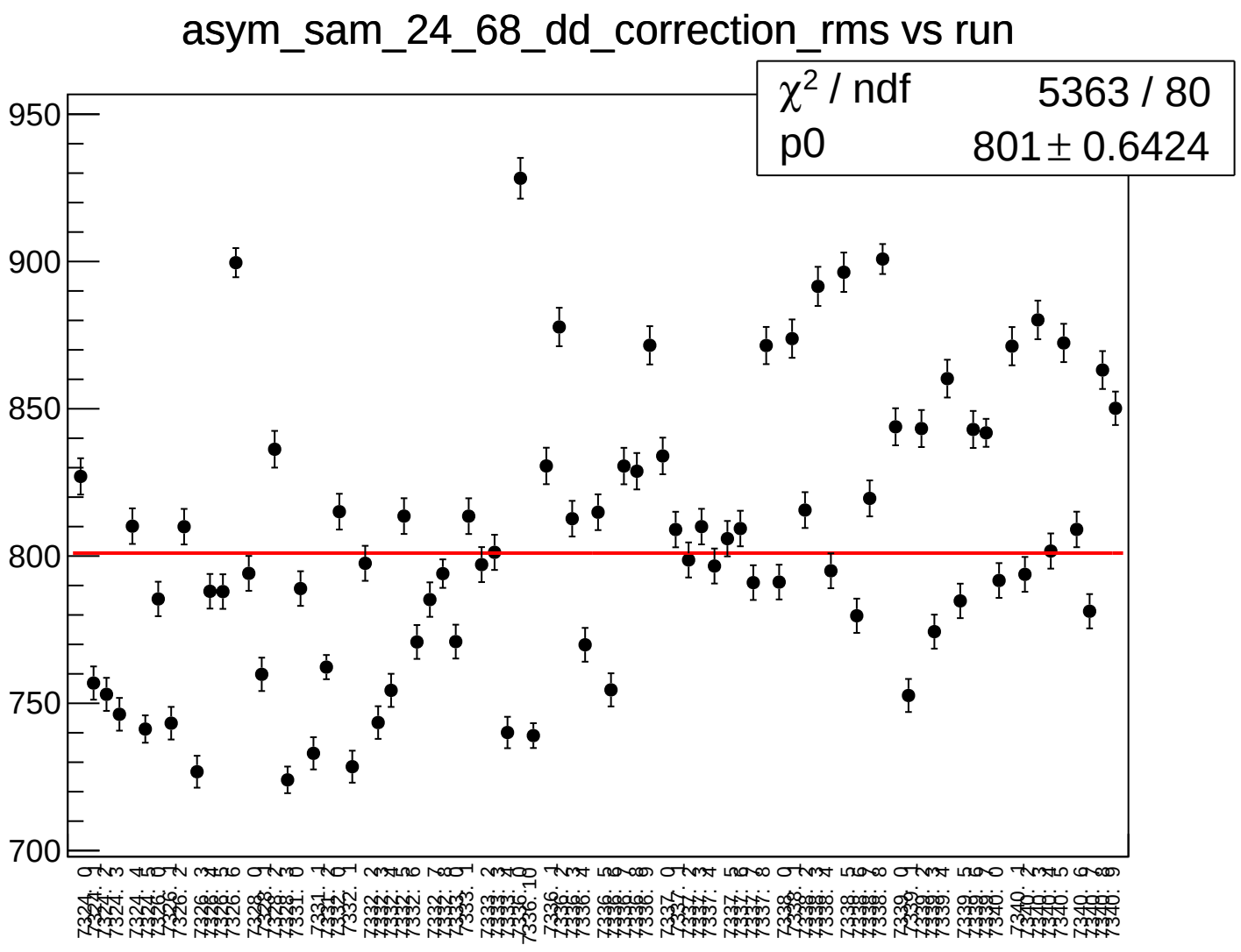

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 64.12 / 80
p0 −96.27 ± 91.51
pull
Entries 81
Mean 124.7
Std Dev 91.4

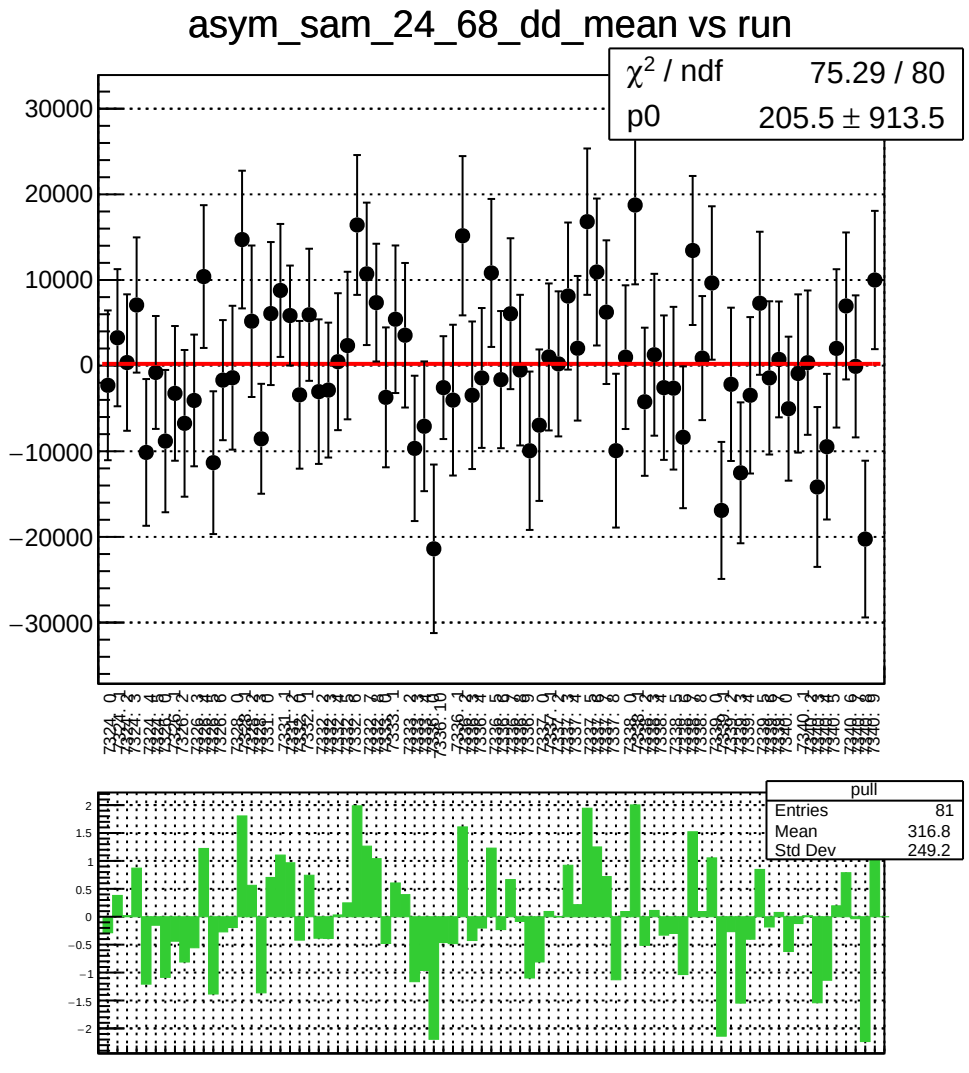

pull1D
Entries 81
Mean −0.02105
Std Dev 0.8895

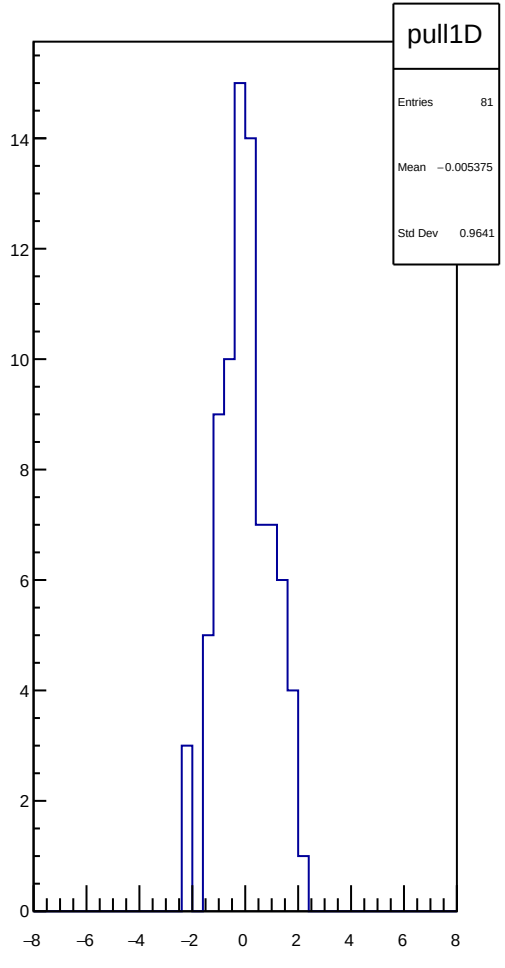

reg_asym_sam_24_68_dd_rms vs run
χ^2 / ndf 3.722e+04 / 80
p0 79.85 ± 0.06471
110
100
90
80
70
60

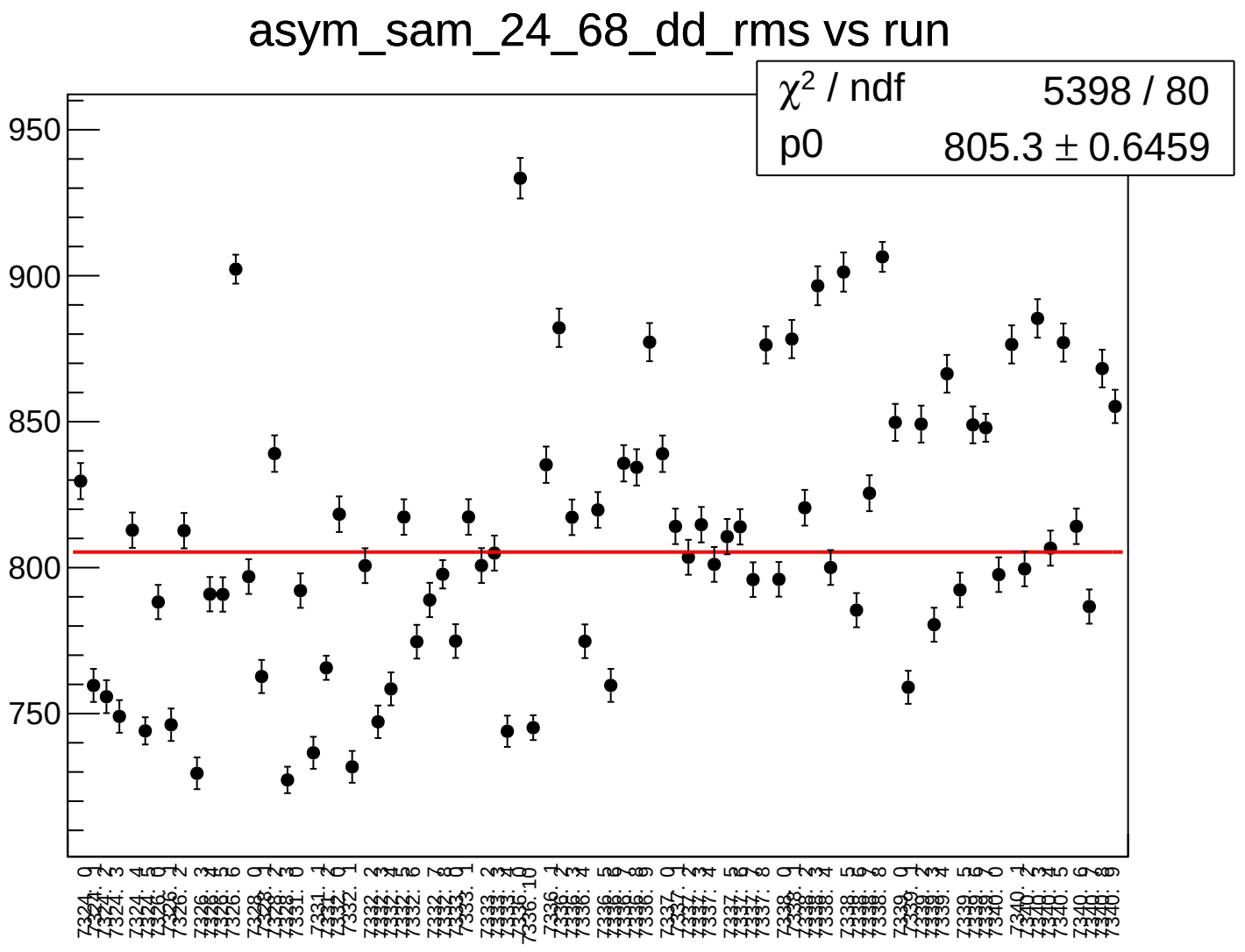

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 77.5 / 80
p0 −330.4 ± 908.5
pull
Entries 81
Mean 303.7
Std Dev 230.7

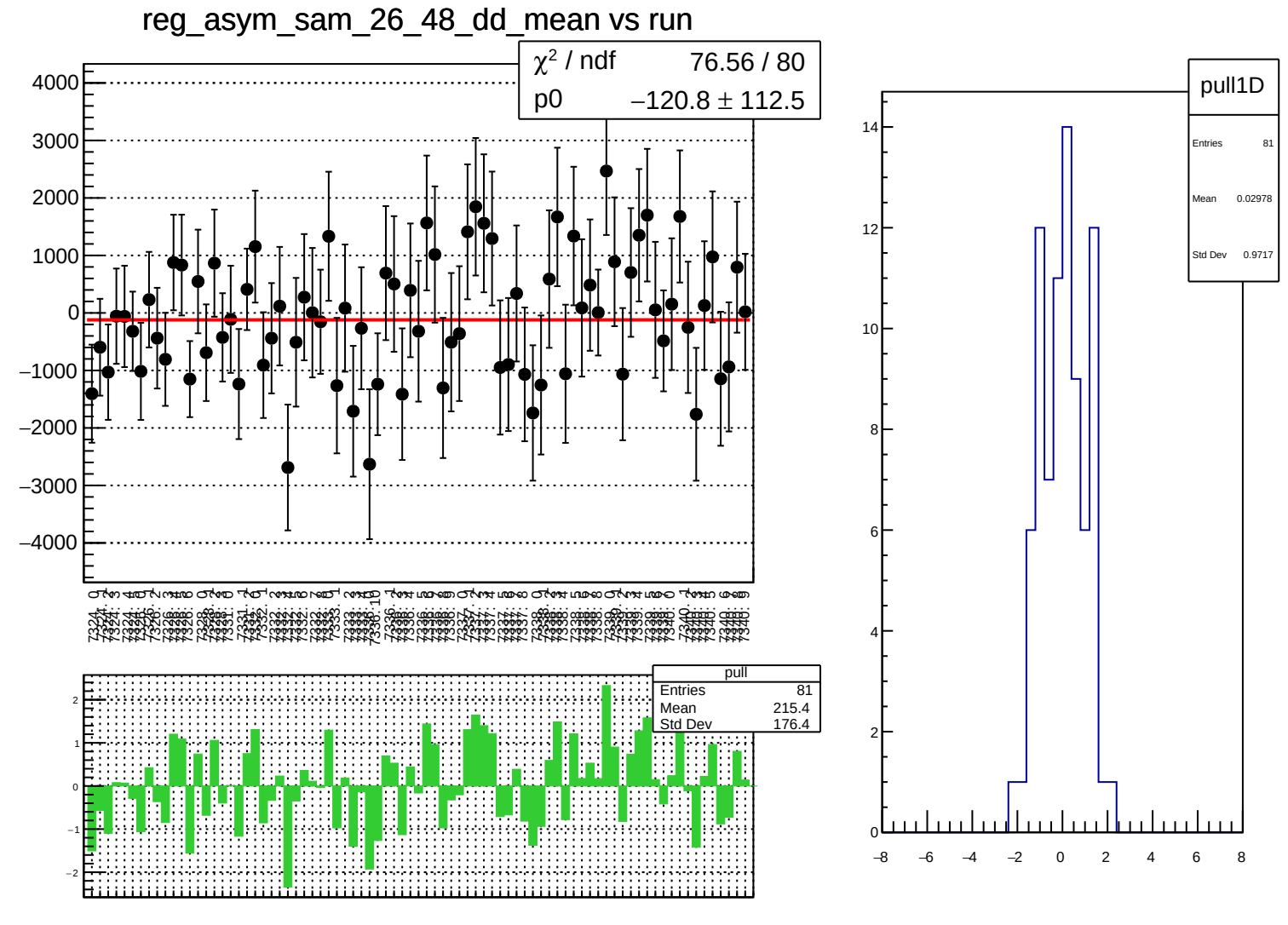

pull1D
Entries 81
Mean 0.005062
Std Dev 0.9781

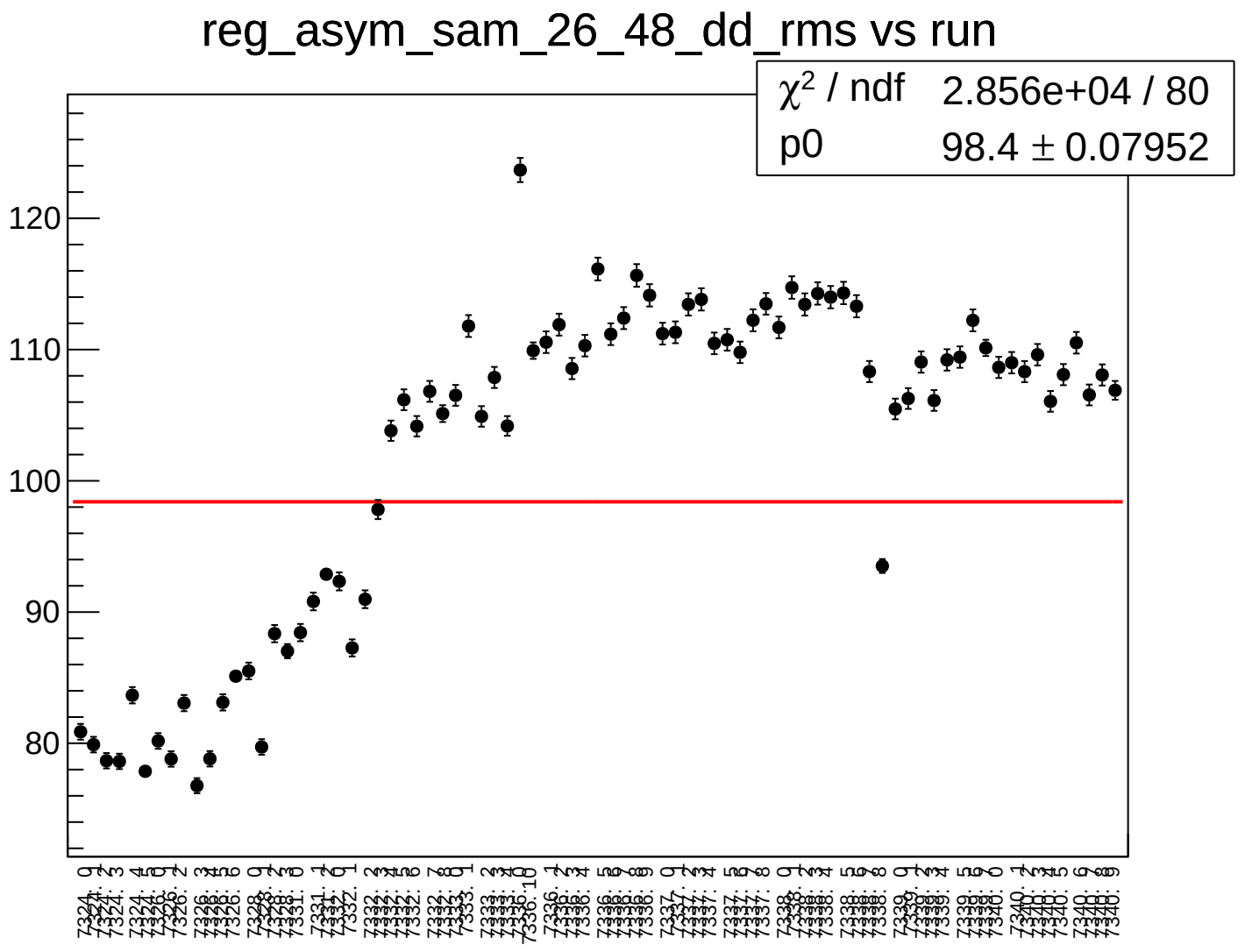

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 5363 / 80
p0 801 ± 0.6424
950
900
850
800
750
700

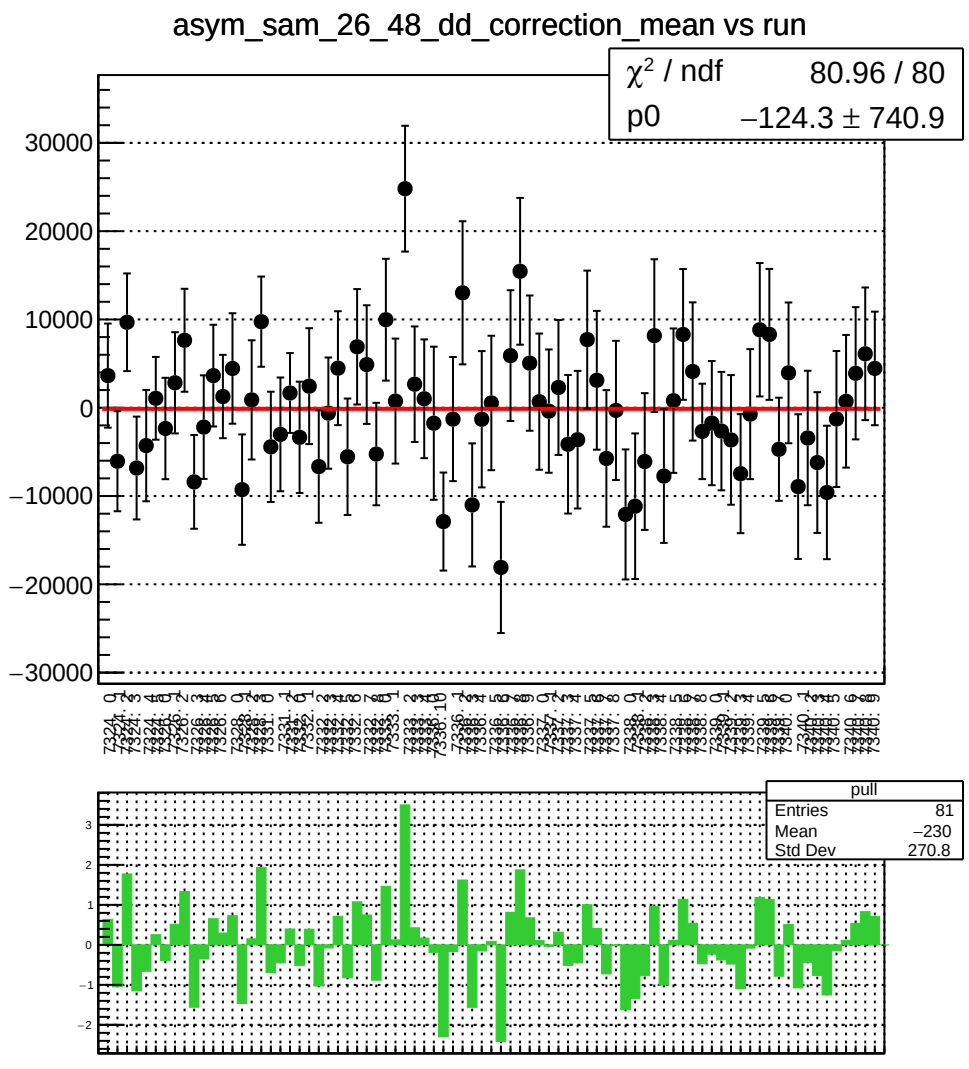

asym_sam_24_68_dd_mean vs run
χ^2 / ndf 75.29 / 80
p0 205.5 ± 913.5
pull
Entries 81
Mean 316.8
Std Dev 249.2

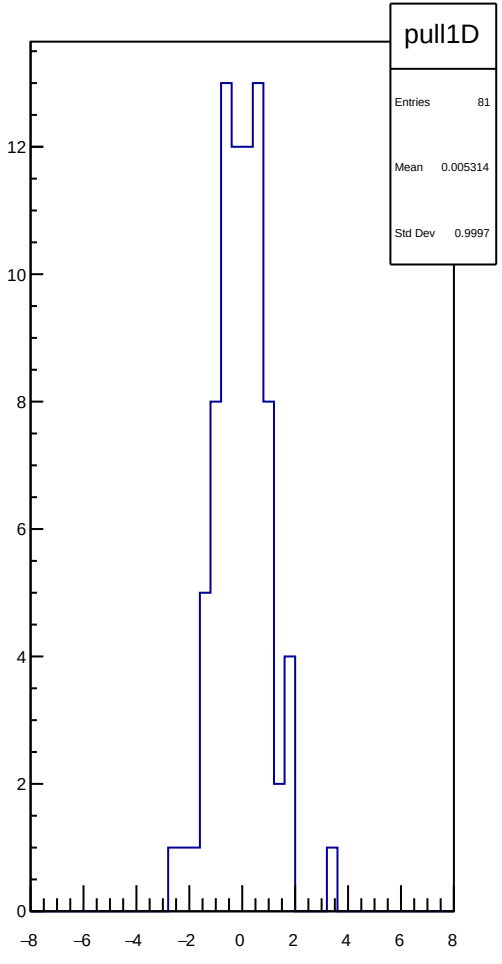

pull1D
Entries 81
Mean −0.005375
Std Dev 0.9641

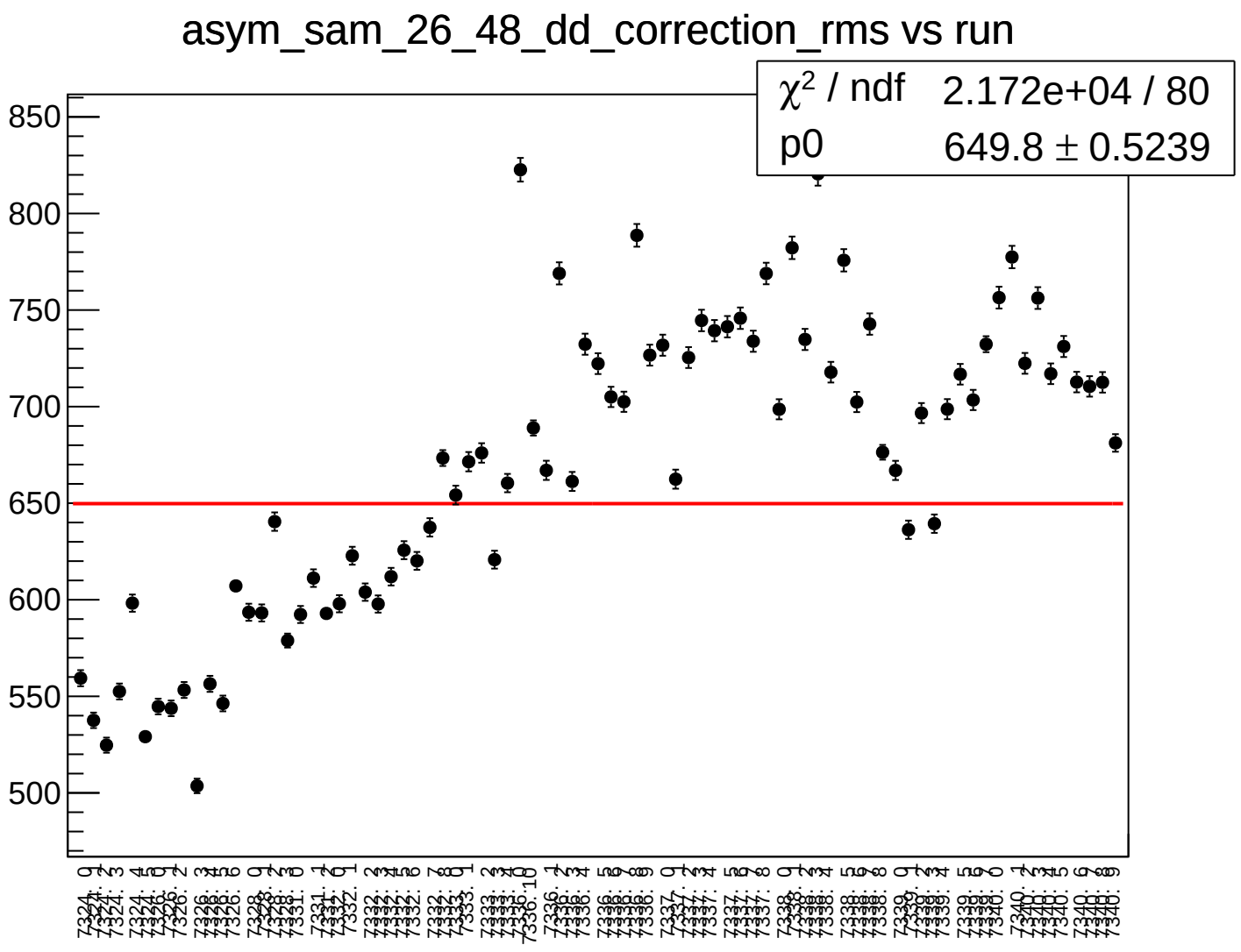

asym_sam_24_68_dd_rms vs run
χ² / ndf 5398 / 80
p0 805.3 ± 0.6459
950
900
850
800
750

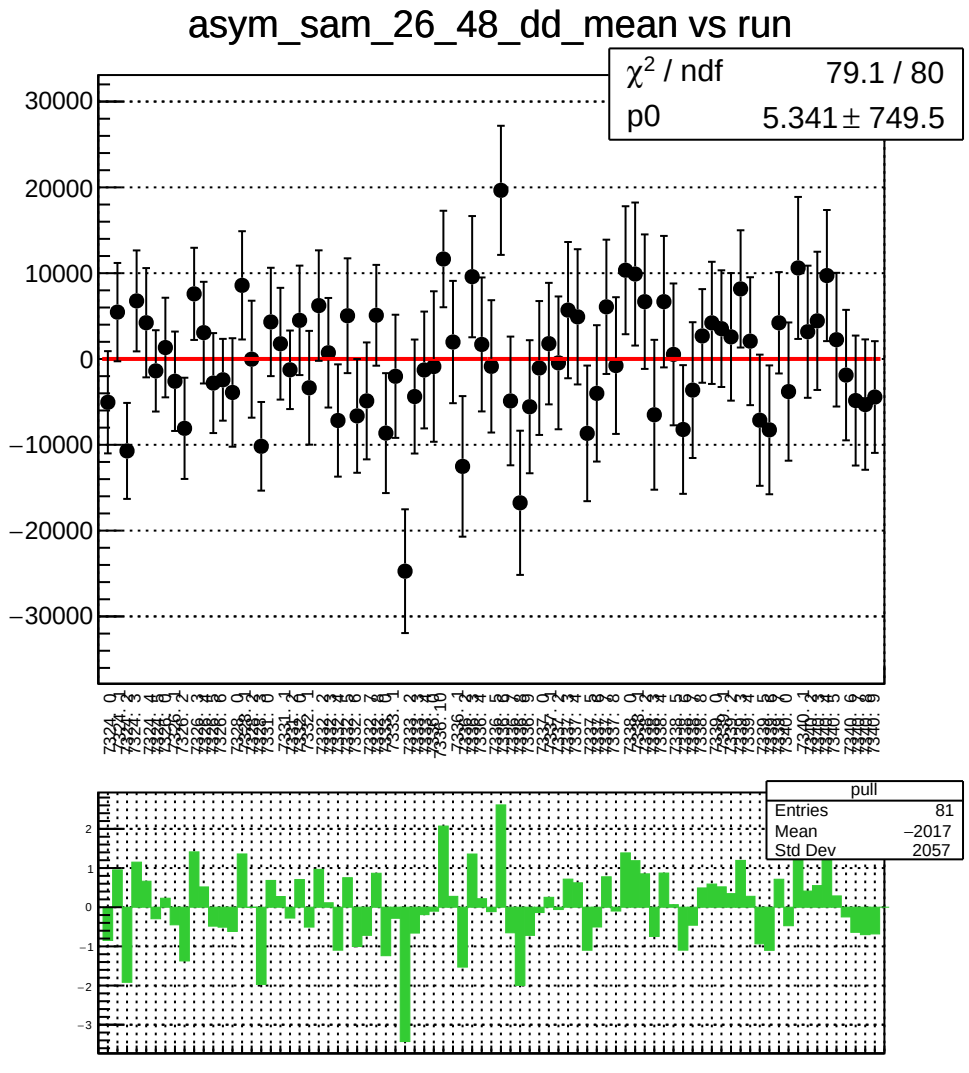

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 76.56 / 80
p0 −120.8 ± 112.5
pull
Entries 81
Mean 215.4
Std Dev 176.4
pull1D
Entries 81
Mean 0.02978
Std Dev 0.9717

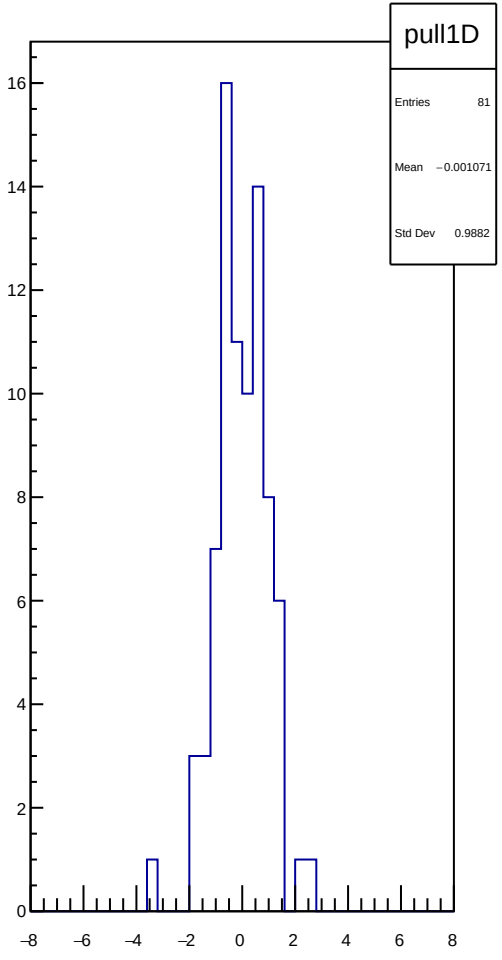

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 2.856e+04 / 80
p0 98.4 ± 0.07952
120
110
100
90
80

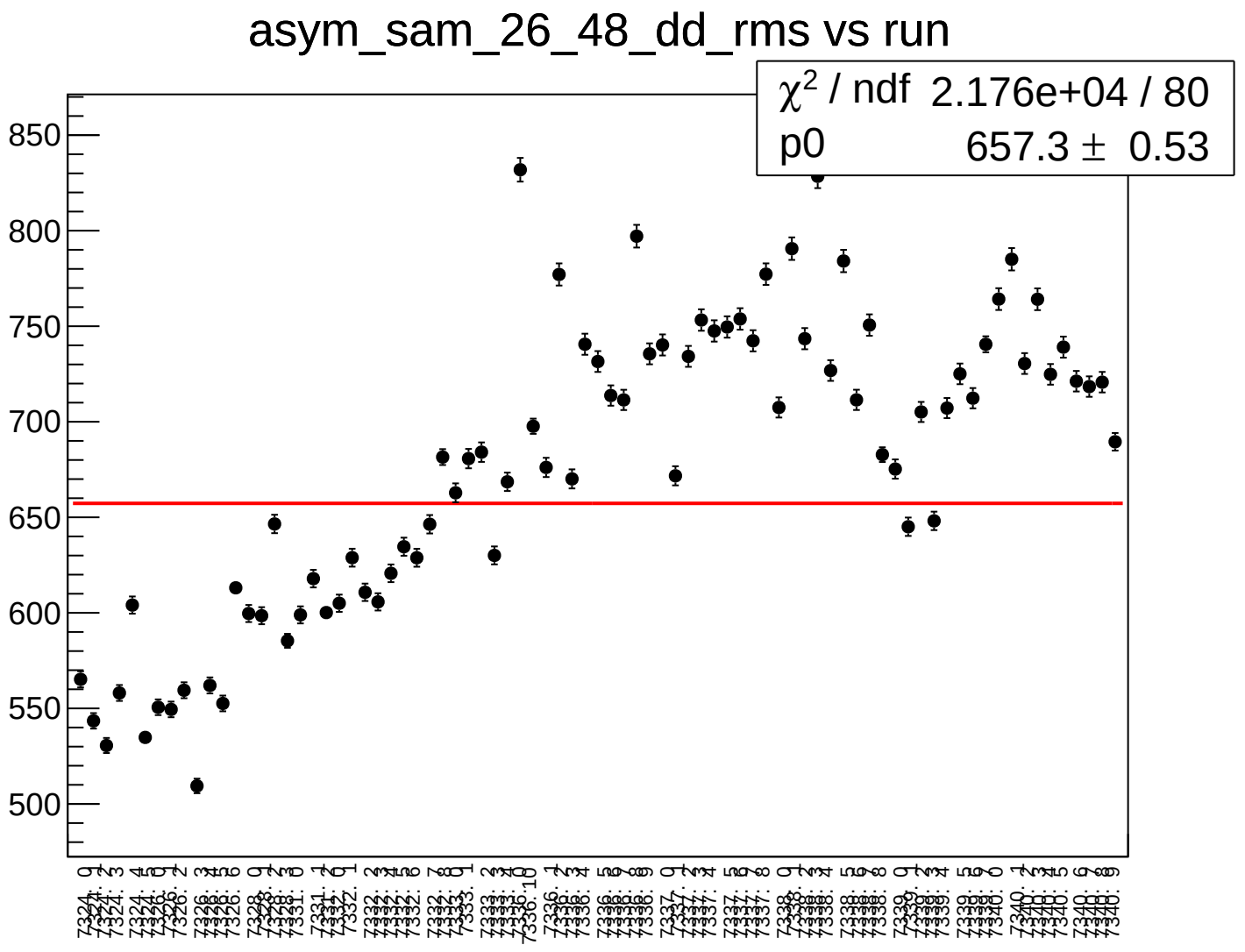

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 80.96 / 80
p0 −124.3 ± 740.9
pull
Entries 81
Mean −230
Std Dev 270.8

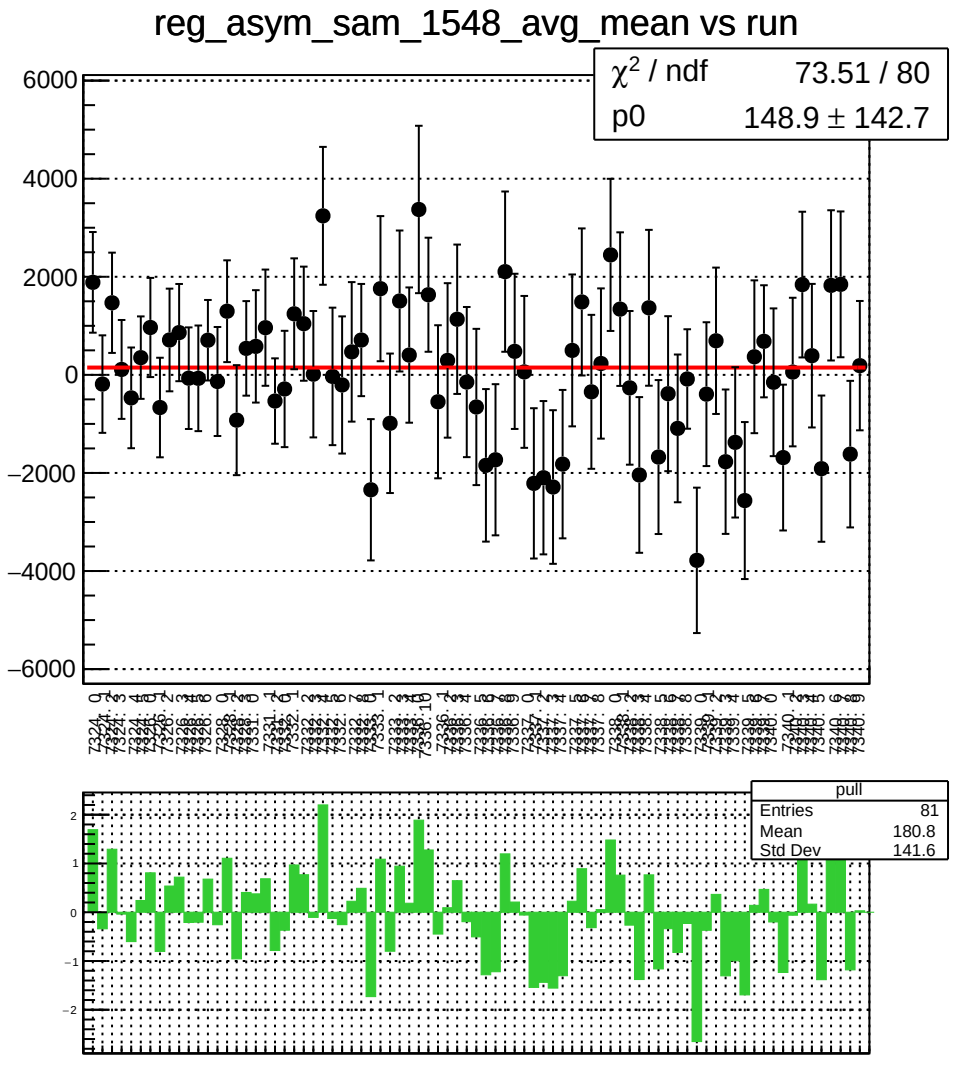

pull1D
Entries 81
Mean 0.005314
Std Dev 0.9997

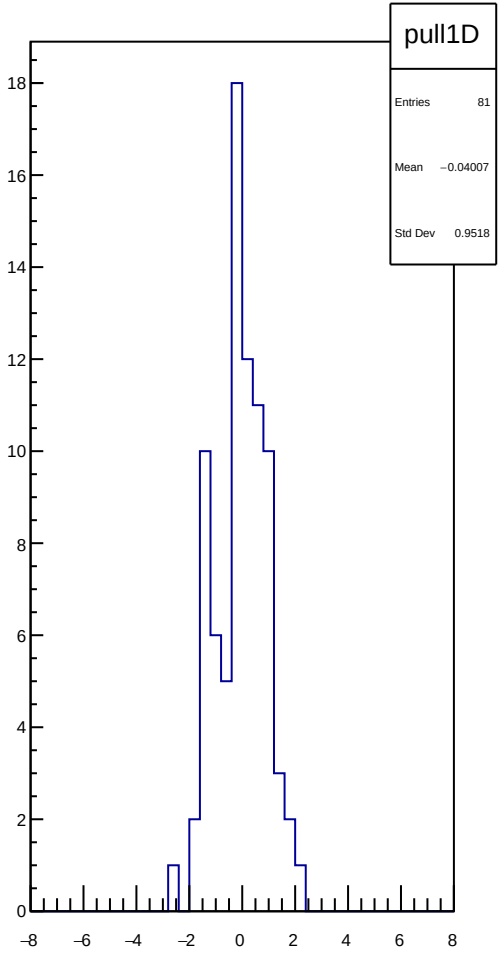

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 2.172e+04 / 80
p0 649.8 ± 0.5239
850
800
750
700
650
600
550
500


asym_sam_26_48_dd_mean vs run
χ² / ndf 79.1 / 80
p0 5.341 ± 749.5
pull
Entries 81
Mean −2017
Std Dev 2057

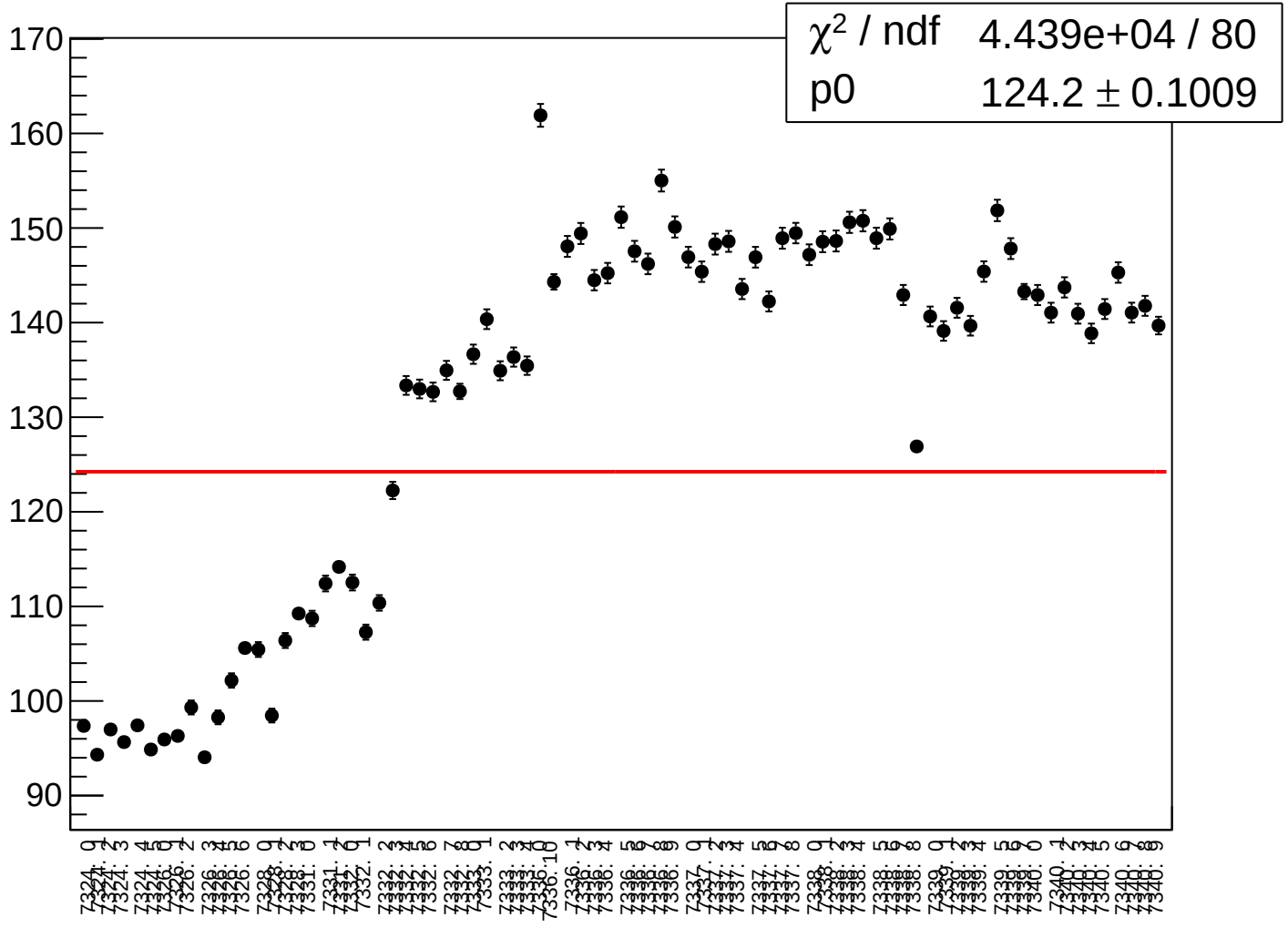

pull1D
Entries 81
Mean −0.001071
Std Dev 0.9882

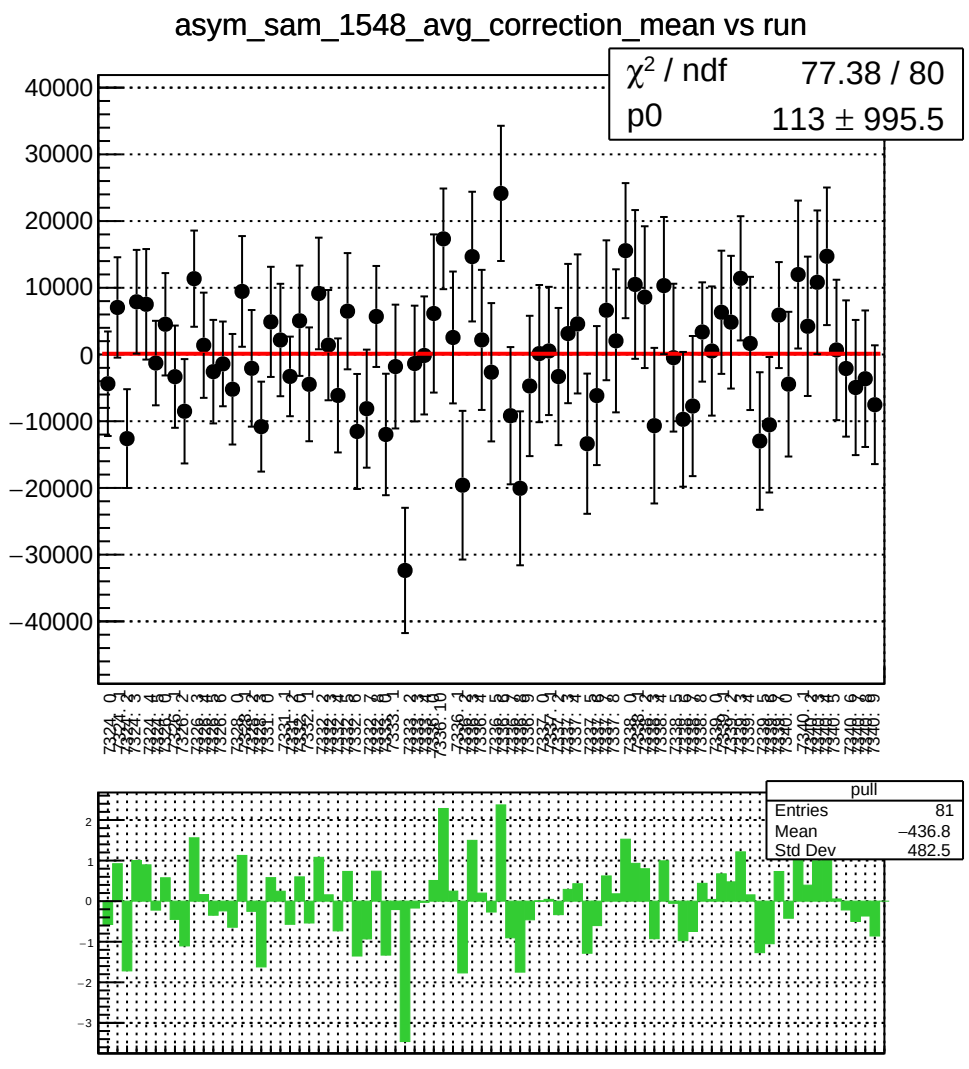

asym_sam_26_48_dd_rms vs run
χ² / ndf 2.176e+04 / 80
p0 657.3 ± 0.53
850
800
750
700
650
600
550
500

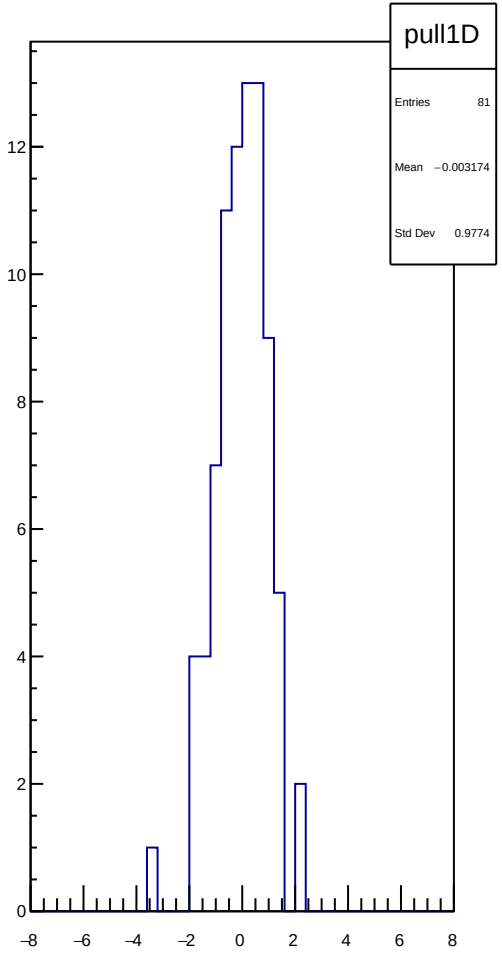

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 73.51 / 80
p0 148.9 ± 142.7
pull
Entries 81
Mean 180.8
Std Dev 141.6

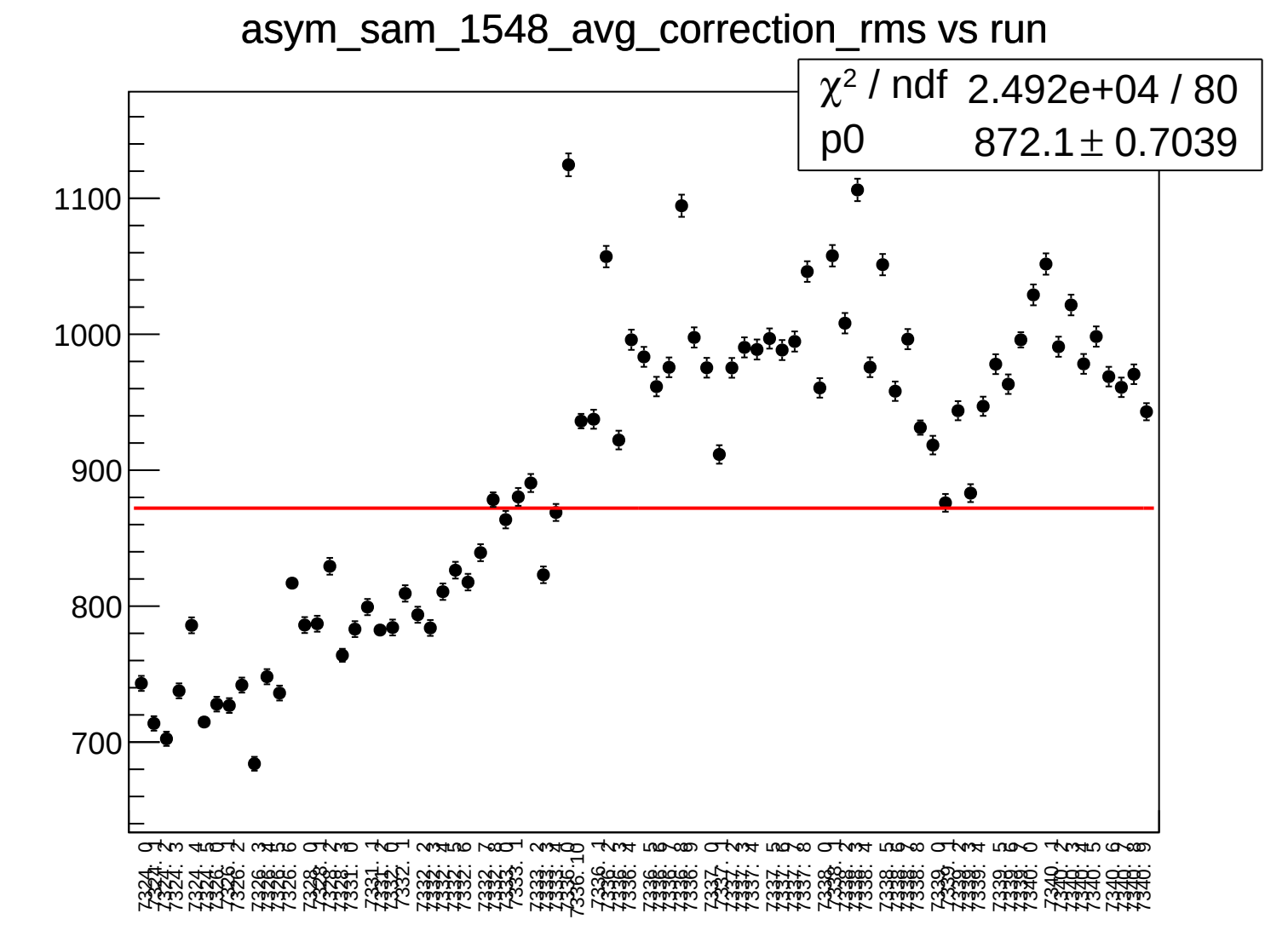

pull1D
Entries 81
Mean −0.04007
Std Dev 0.9518

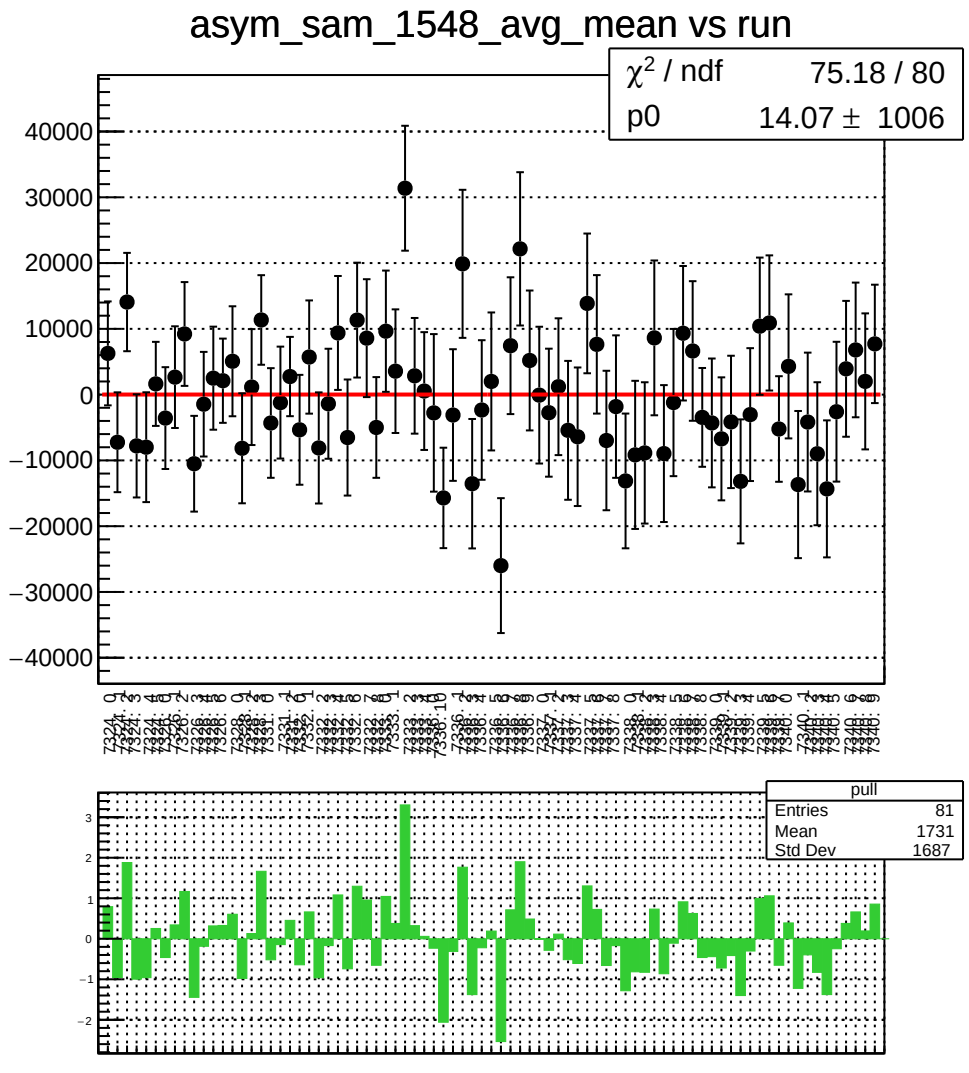
reg_asym_sam_1548_avg_rms vs run

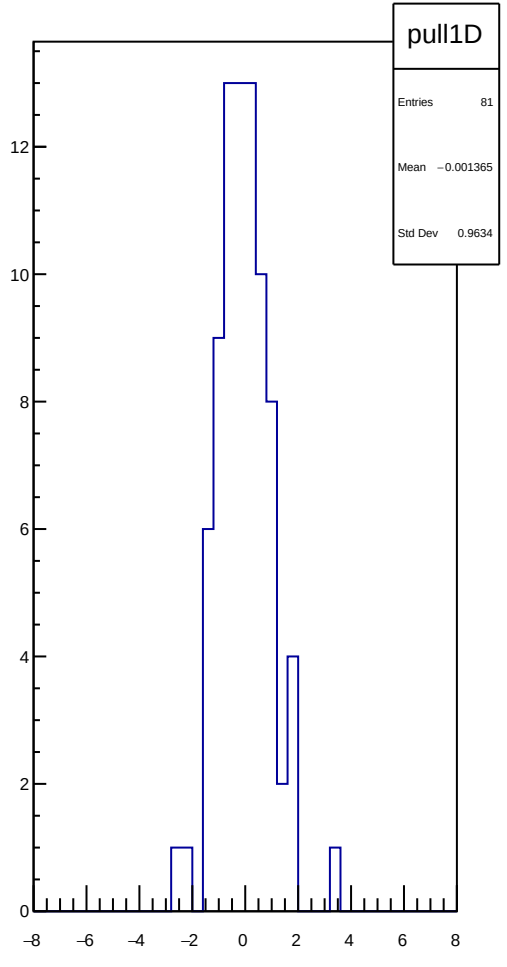


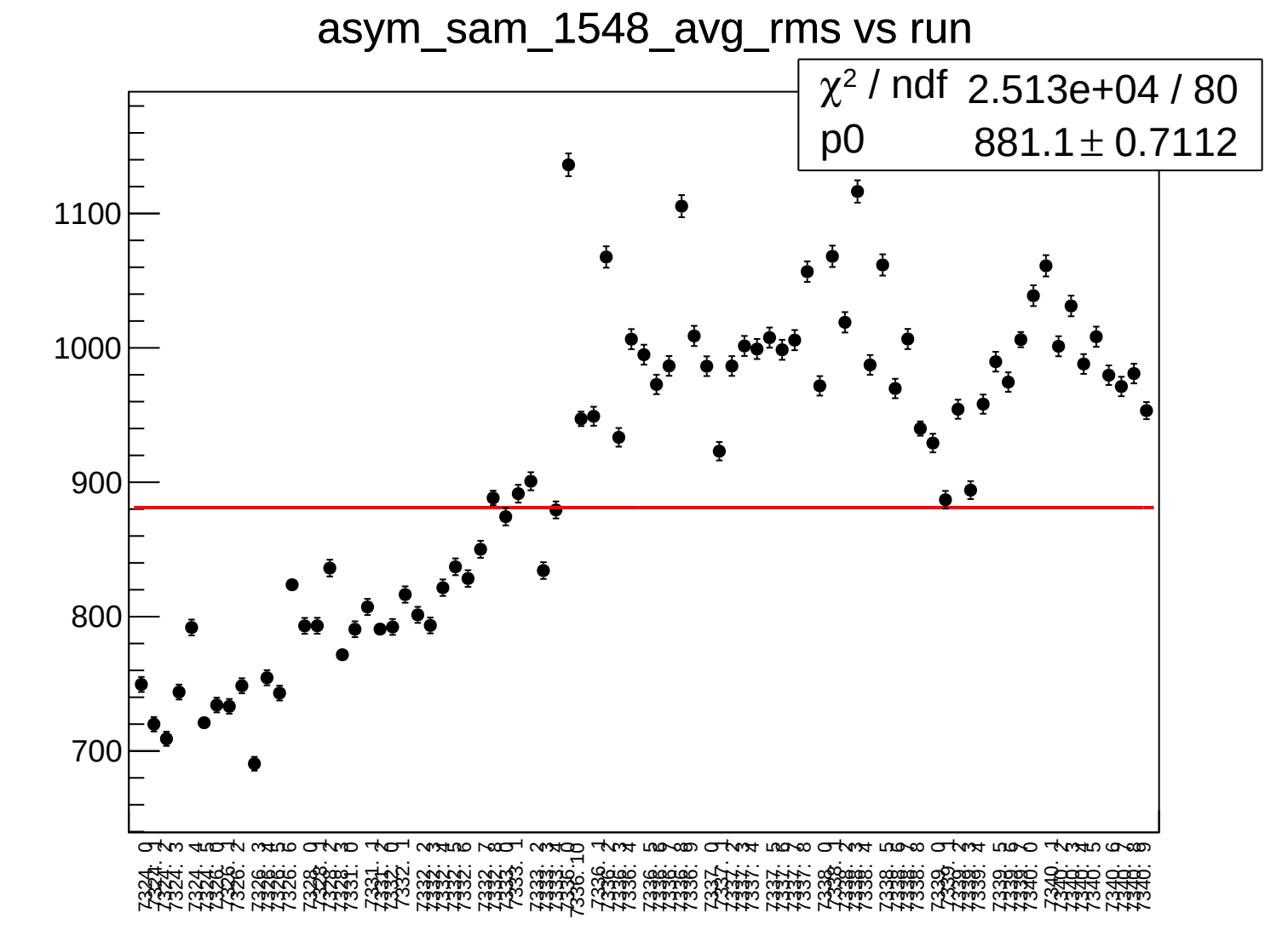

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 77.38 / 80
p0 113 ± 995.5
pull
Entries 81
Mean −436.8
Std Dev 482.5

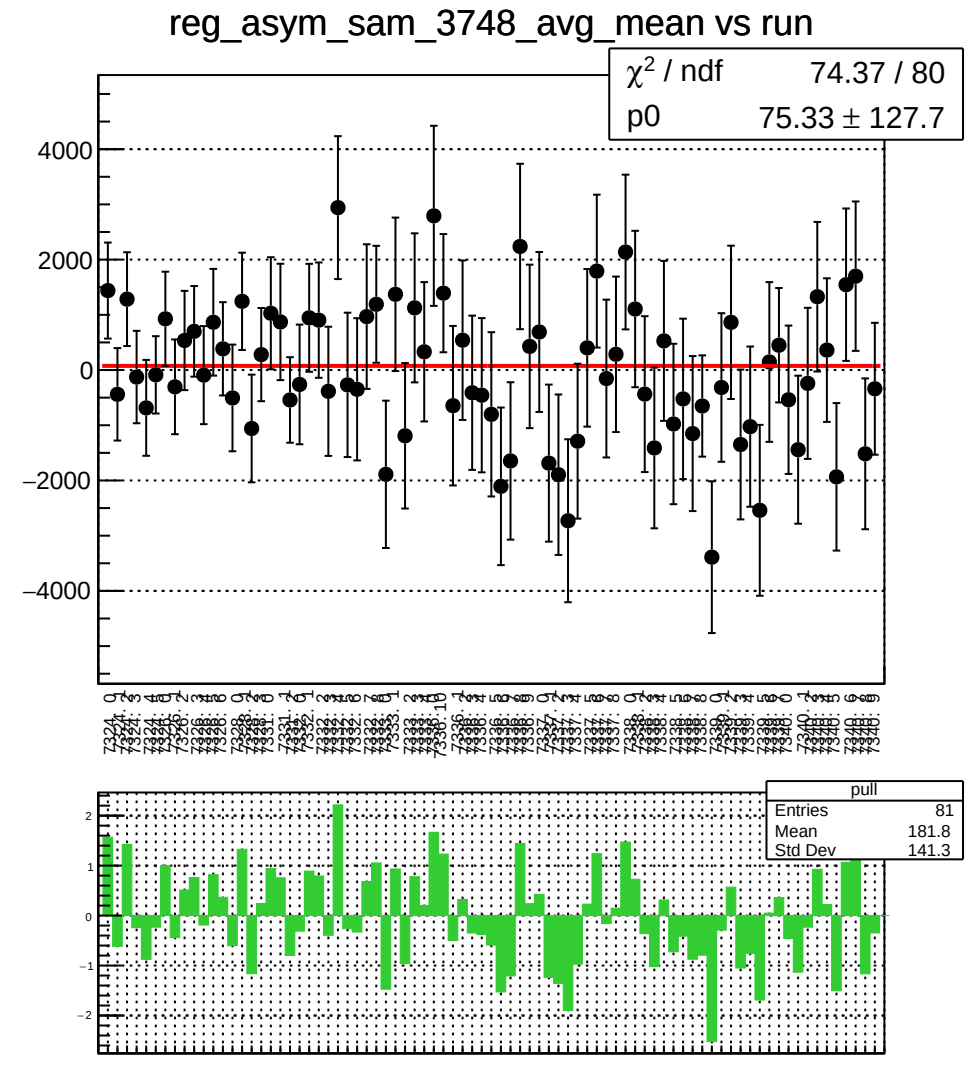

pull1D
Entries 81
Mean −0.003174
Std Dev 0.9774

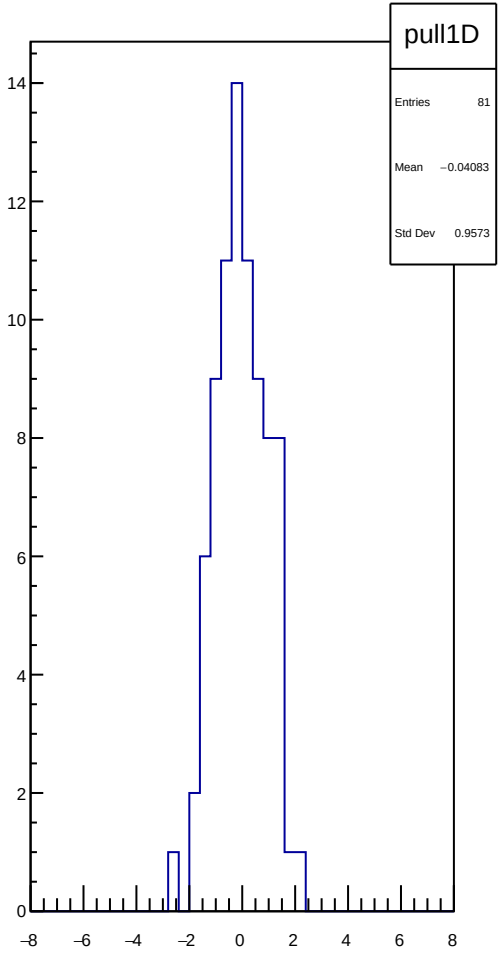

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 2.492e+04 / 80
p0 872.1 ± 0.7039
1100
1000
900
800
700

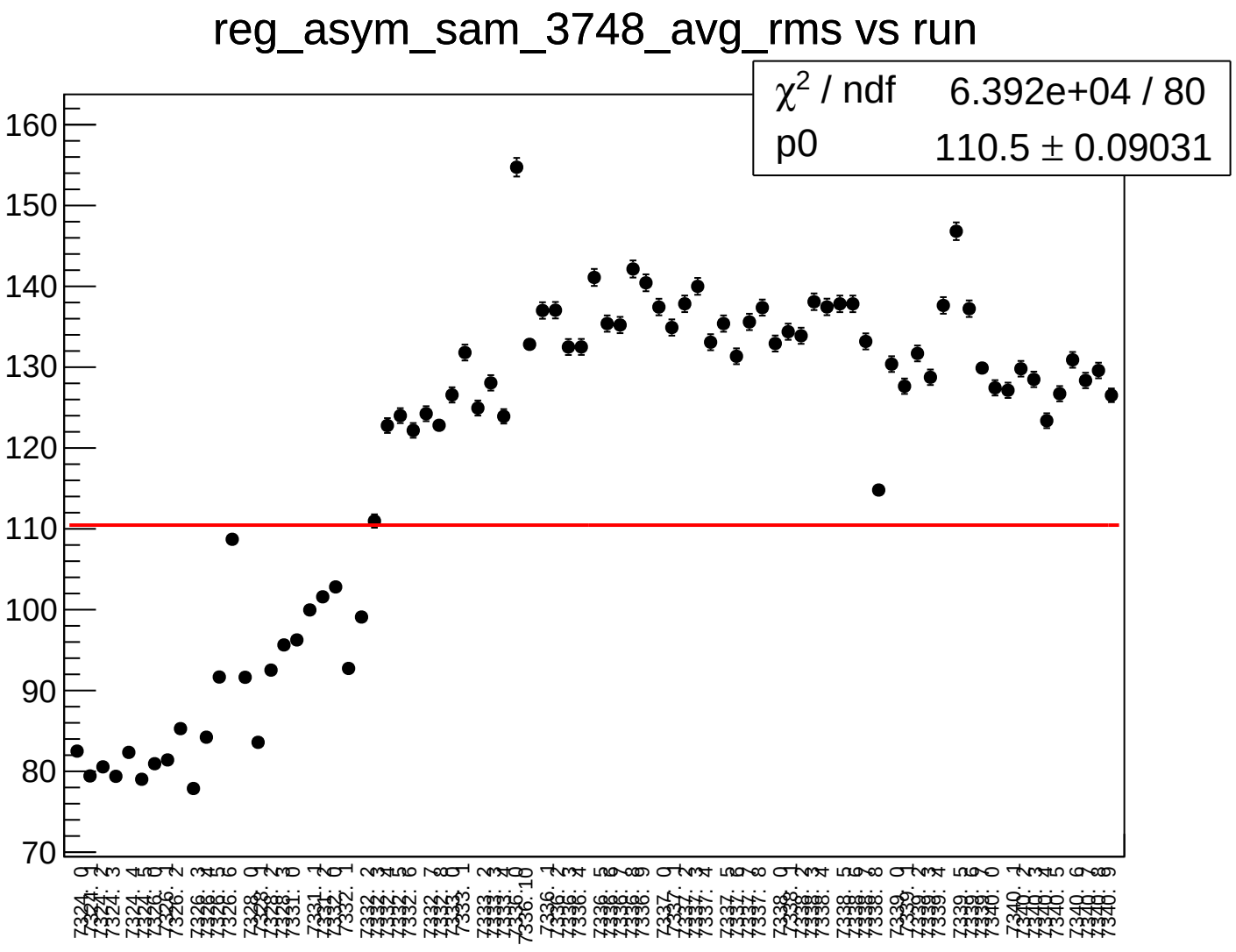

asym_sam_1548_avg_mean vs run
χ² / ndf 75.18 / 80
p0 14.07 ± 1006
pull
Entries 81
Mean 1731
Std Dev 1687

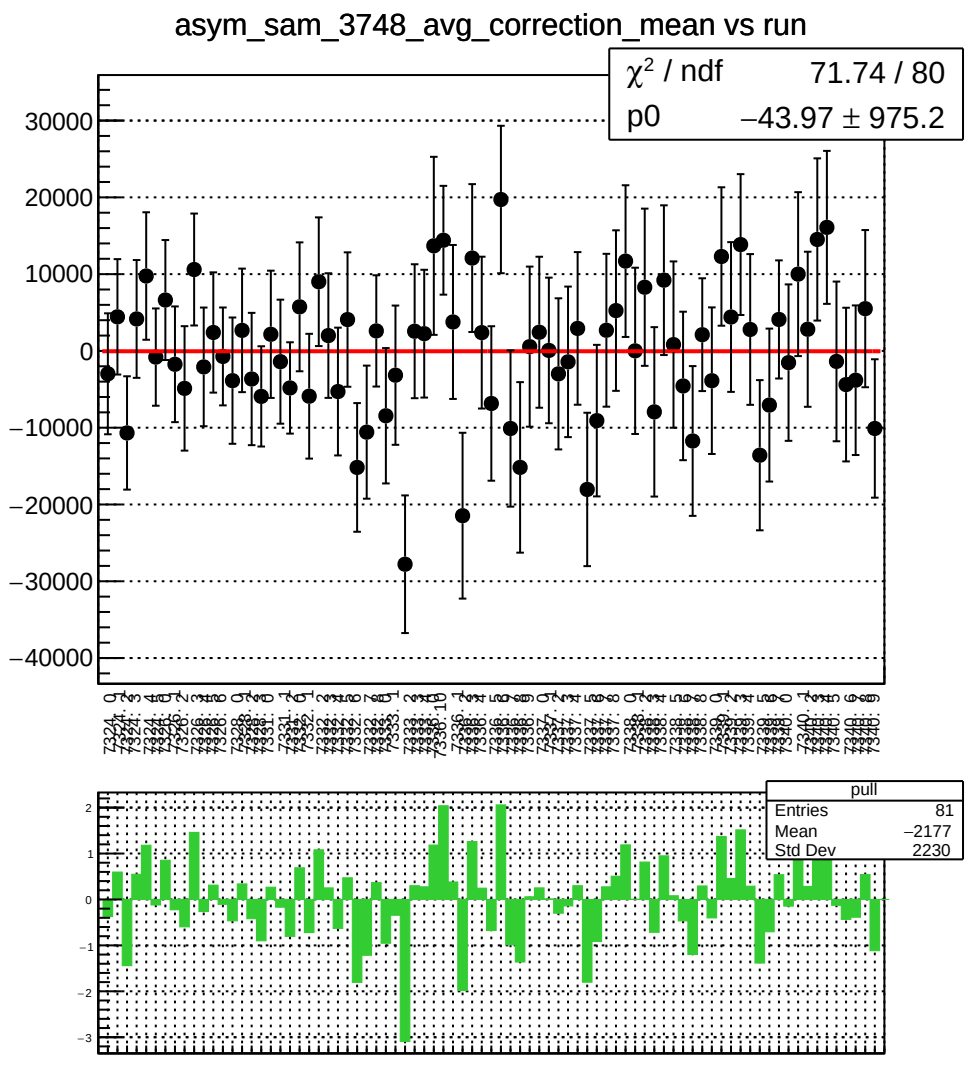

pull1D
Entries 81
Mean −0.001365
Std Dev 0.9634

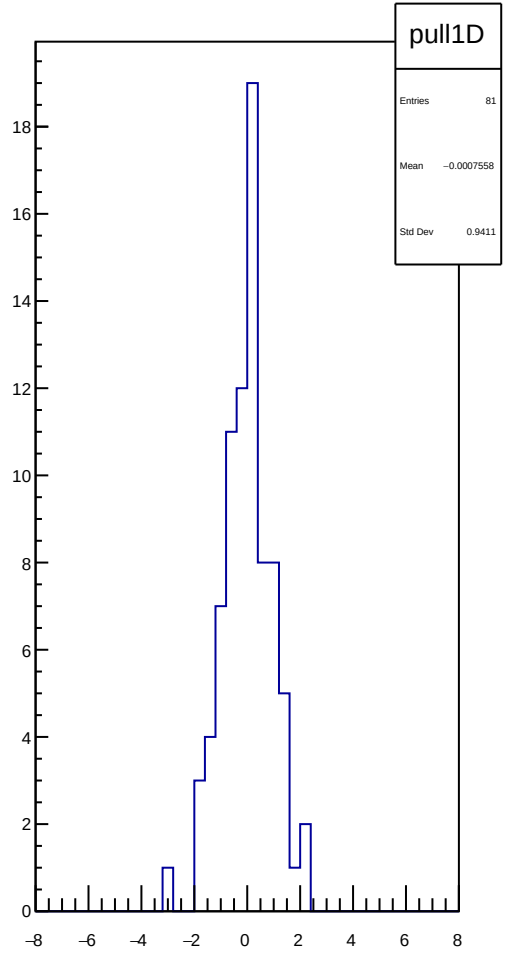

asym_sam_1548_avg_rms vs run
χ² / ndf 2.513e+04 / 80
p0 881.1 ± 0.7112
1100
1000
900
800
700

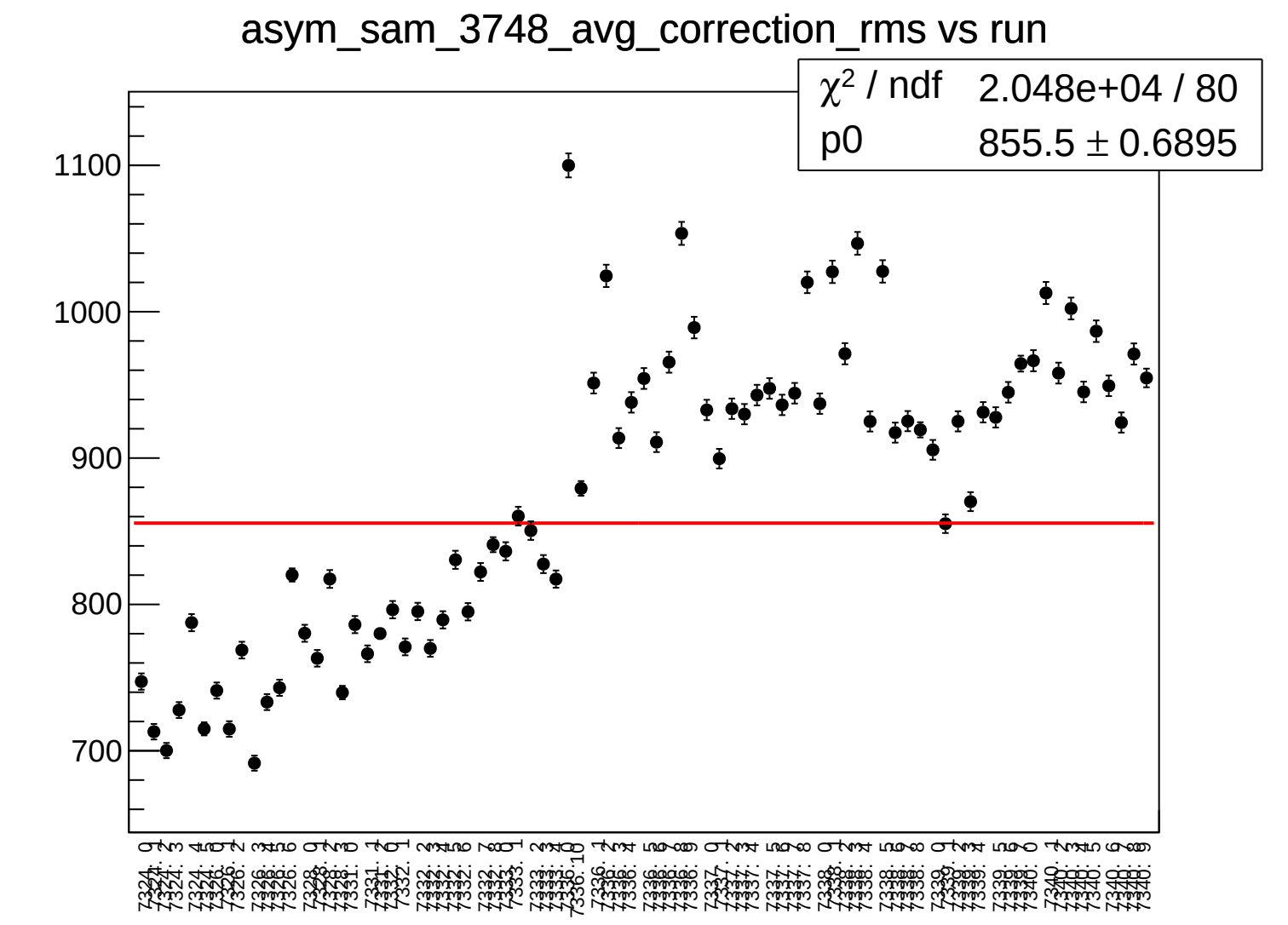

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 74.37 / 80
p0 75.33 ± 127.7
4000
2000
0
−2000
−4000
pull
Entries 81
Mean 181.8
Std Dev 141.3
2
1
0
−1
−2

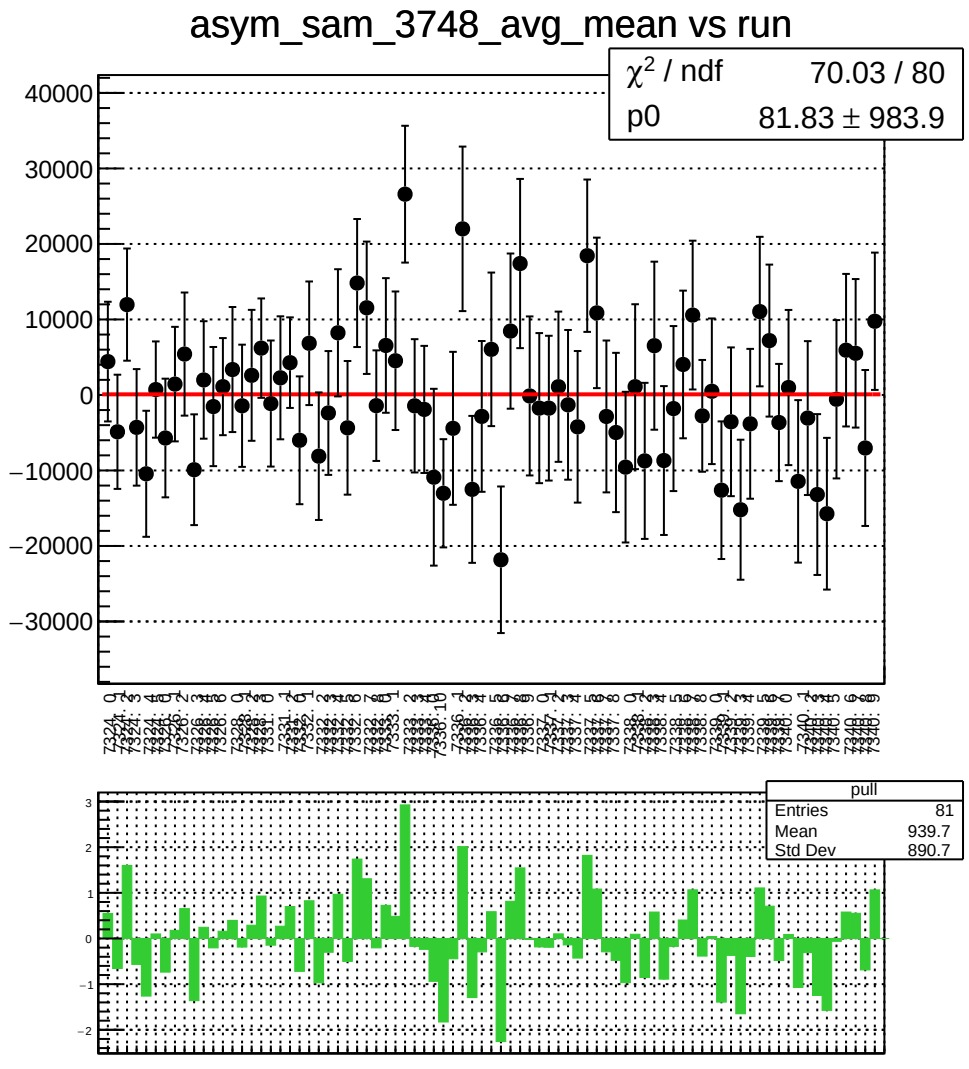

pull1D
Entries 81
Mean −0.04083
Std Dev 0.9573
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

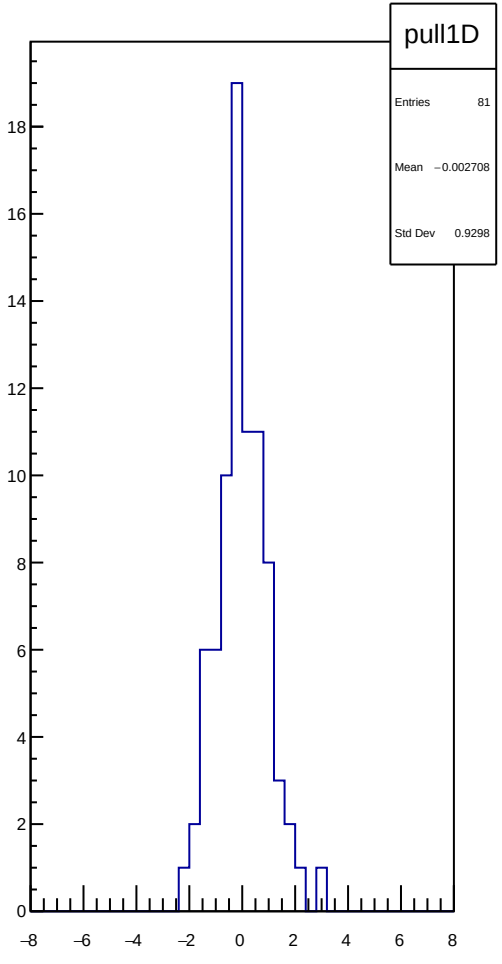

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 6.392e+04 / 80
p0 110.5 ± 0.09031
160
150
140
130
120
110
100
90
80
70

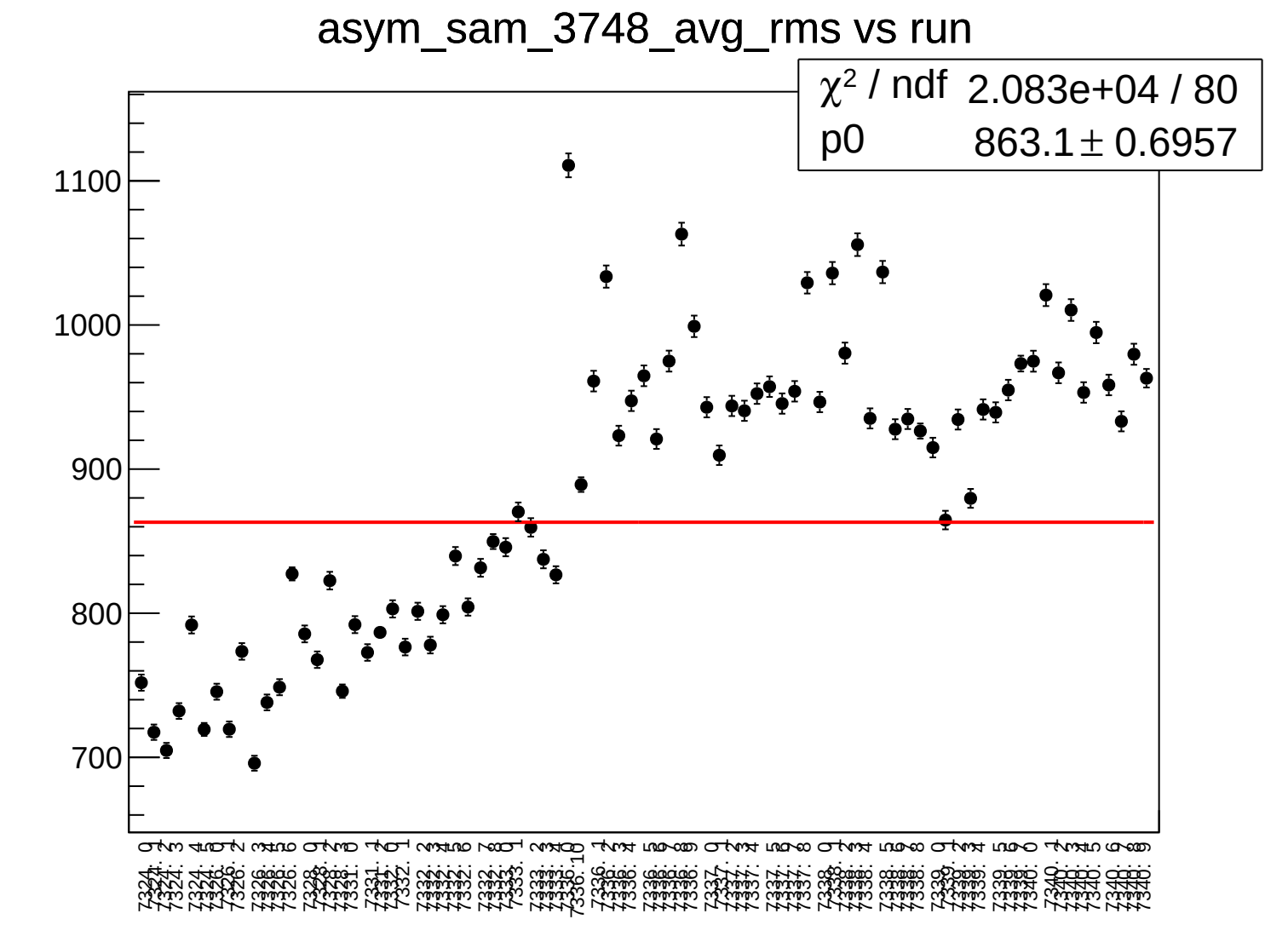

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 71.74 / 80
p0 −43.97 ± 975.2
pull
Entries 81
Mean −2177
Std Dev 2230

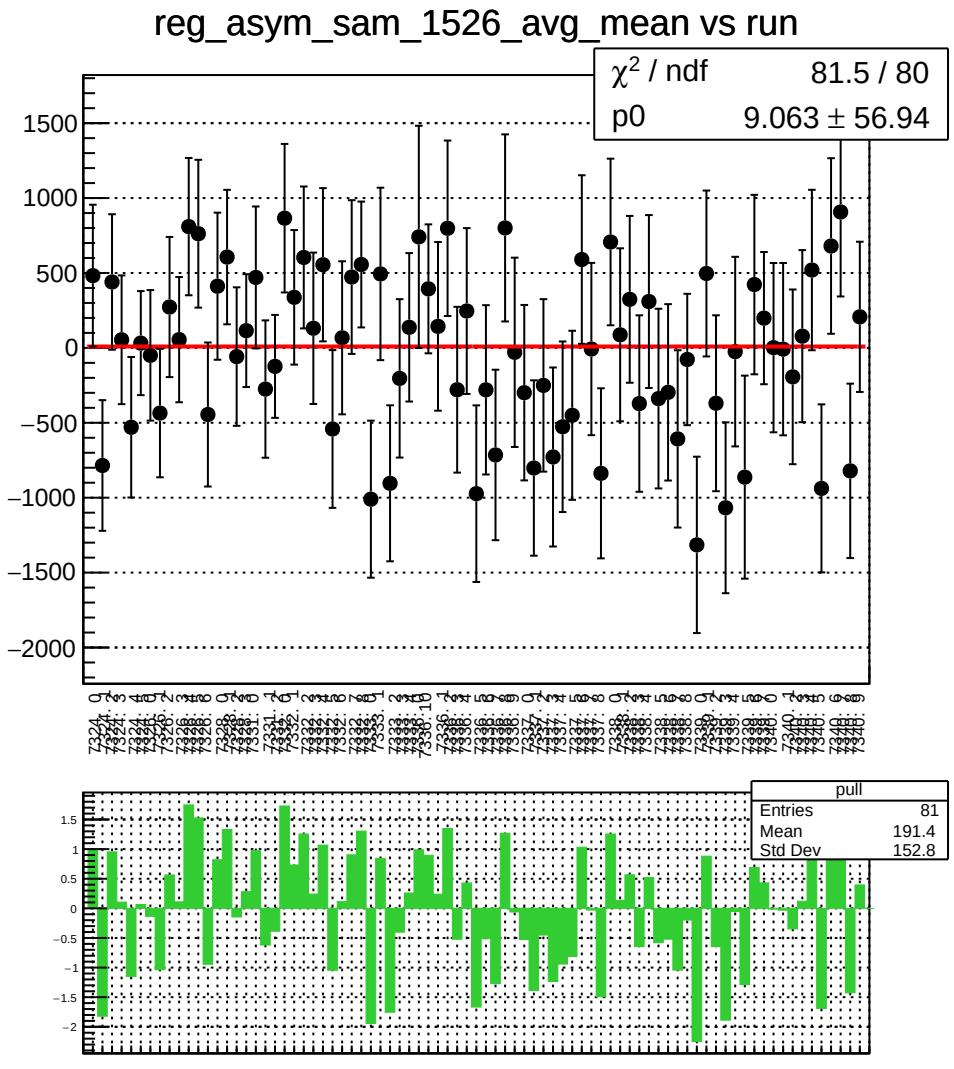

pull1D
Entries 81
Mean −0.0007558
Std Dev 0.9411

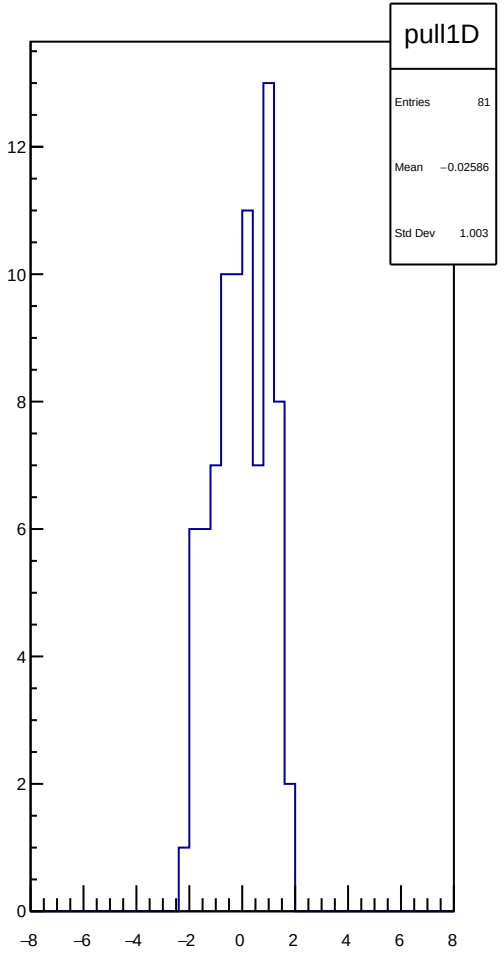

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 2.048e+04 / 80
p0 855.5 ± 0.6895
1100
1000
900
800
700

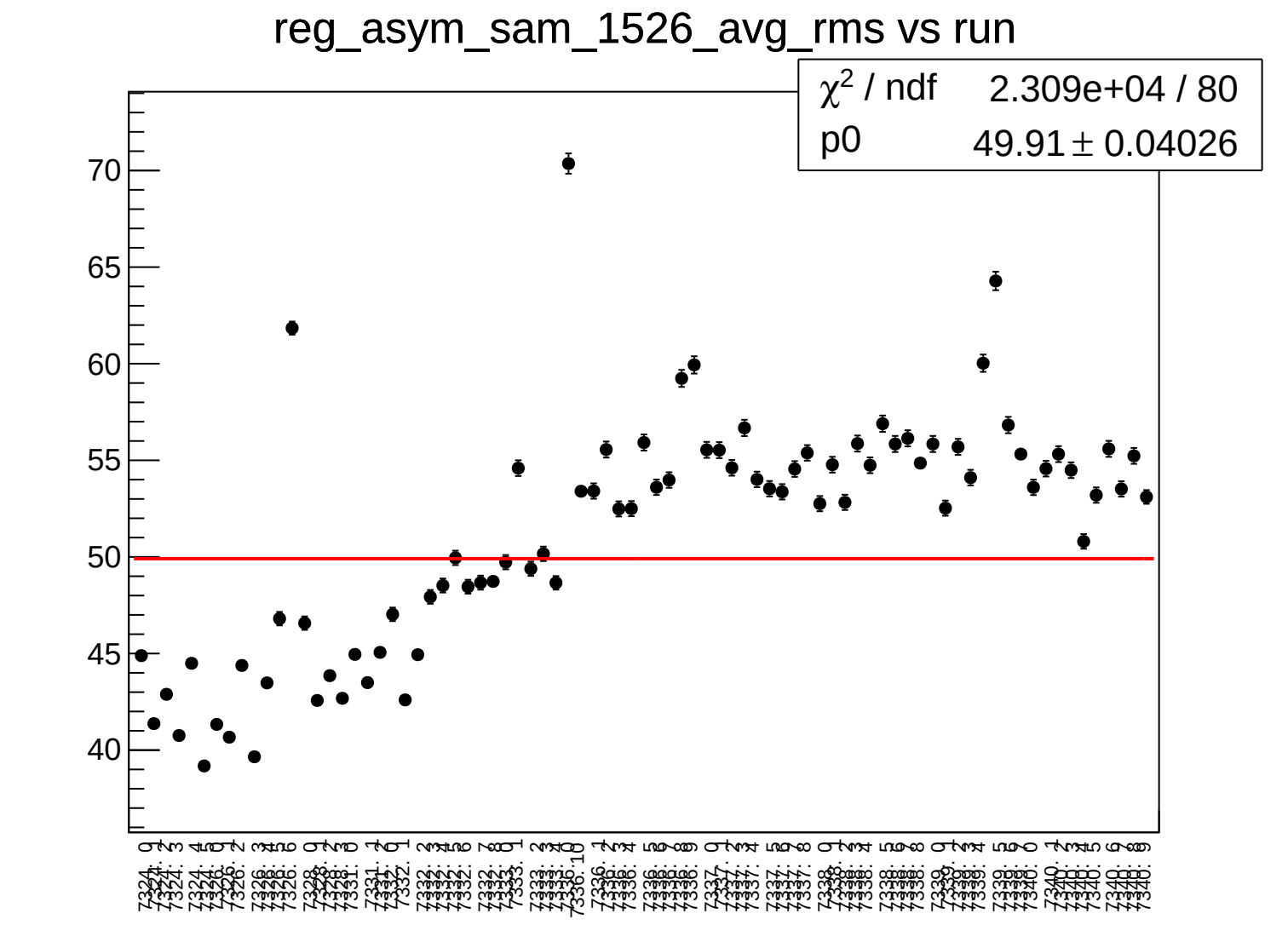

asym_sam_3748_avg_mean vs run
χ² / ndf 70.03 / 80
p0 81.83 ± 983.9
pull
Entries 81
Mean 939.7
Std Dev 890.7

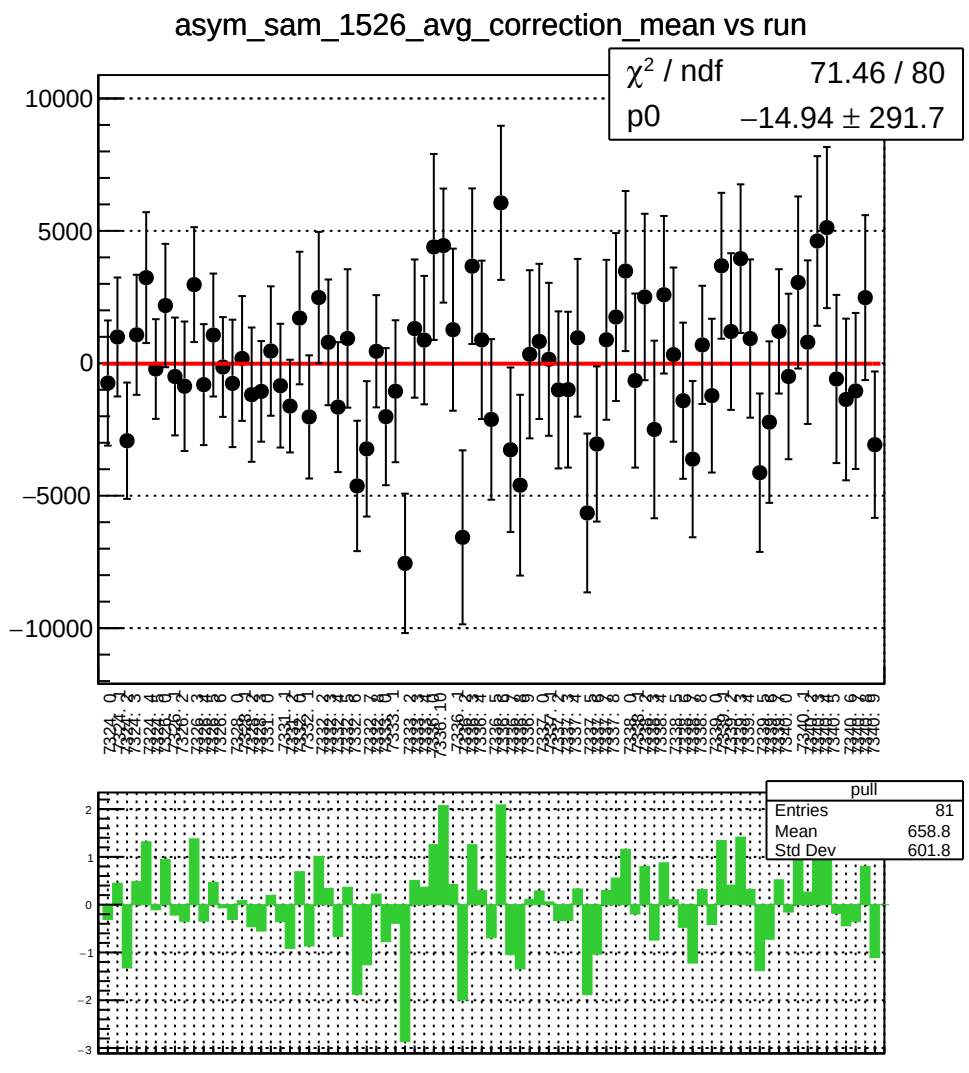

pull1D
Entries 81
Mean −0.002708
Std Dev 0.9298

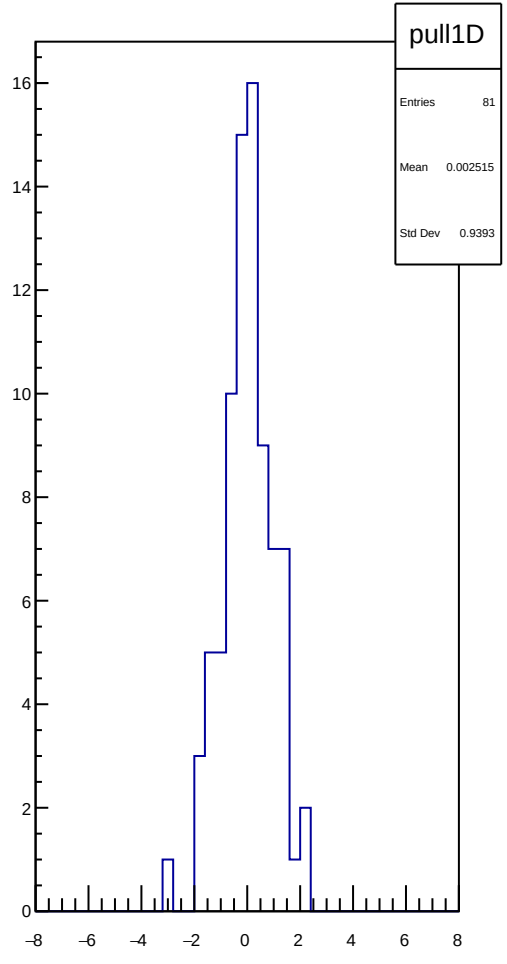

asym_sam_3748_avg_rms vs run
χ² / ndf 2.083e+04 / 80
p0 863.1 ± 0.6957
1100
1000
900
800
700

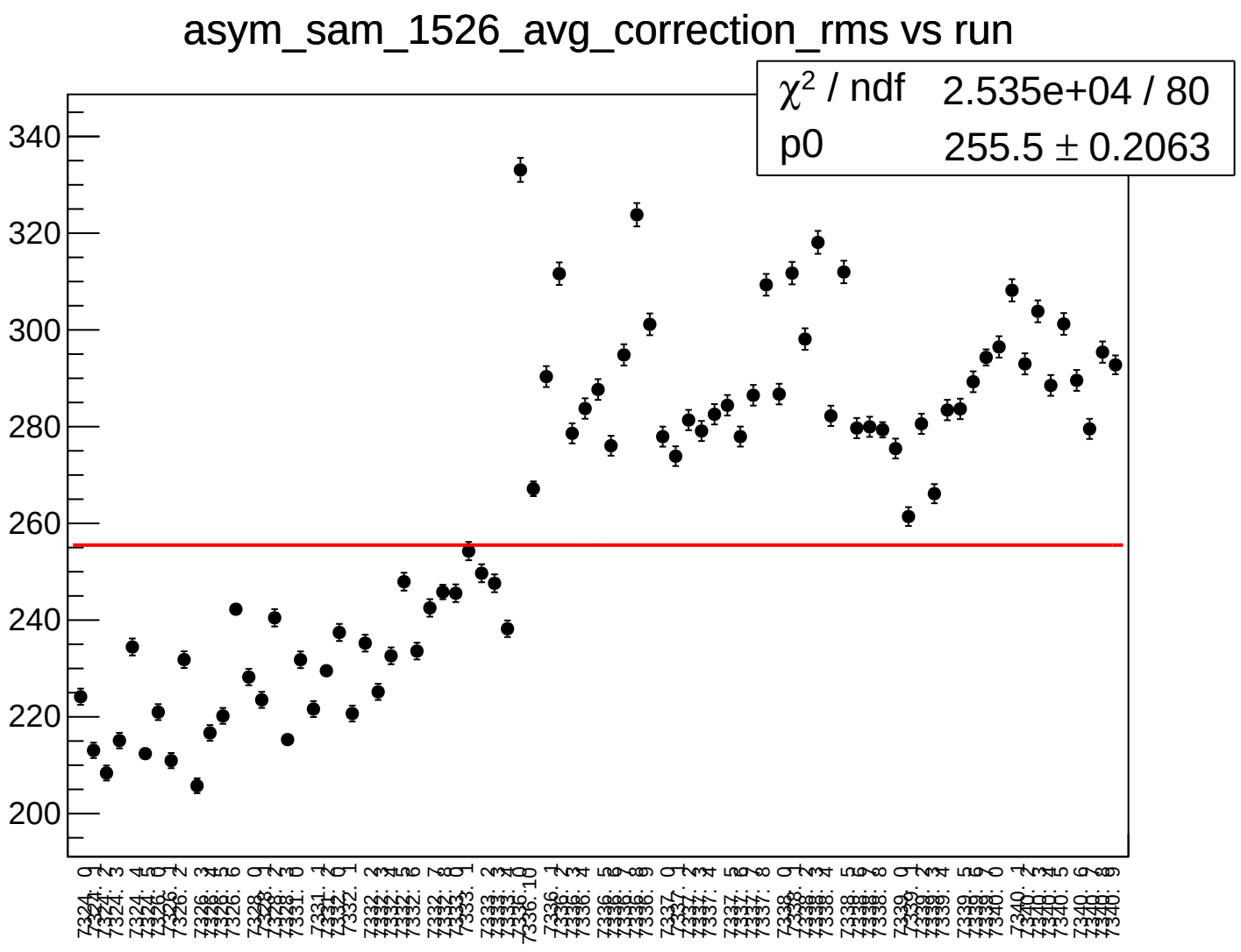

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 81.5 / 80
p0 9.063 ± 56.94
pull
Entries 81
Mean 191.4
Std Dev 152.8

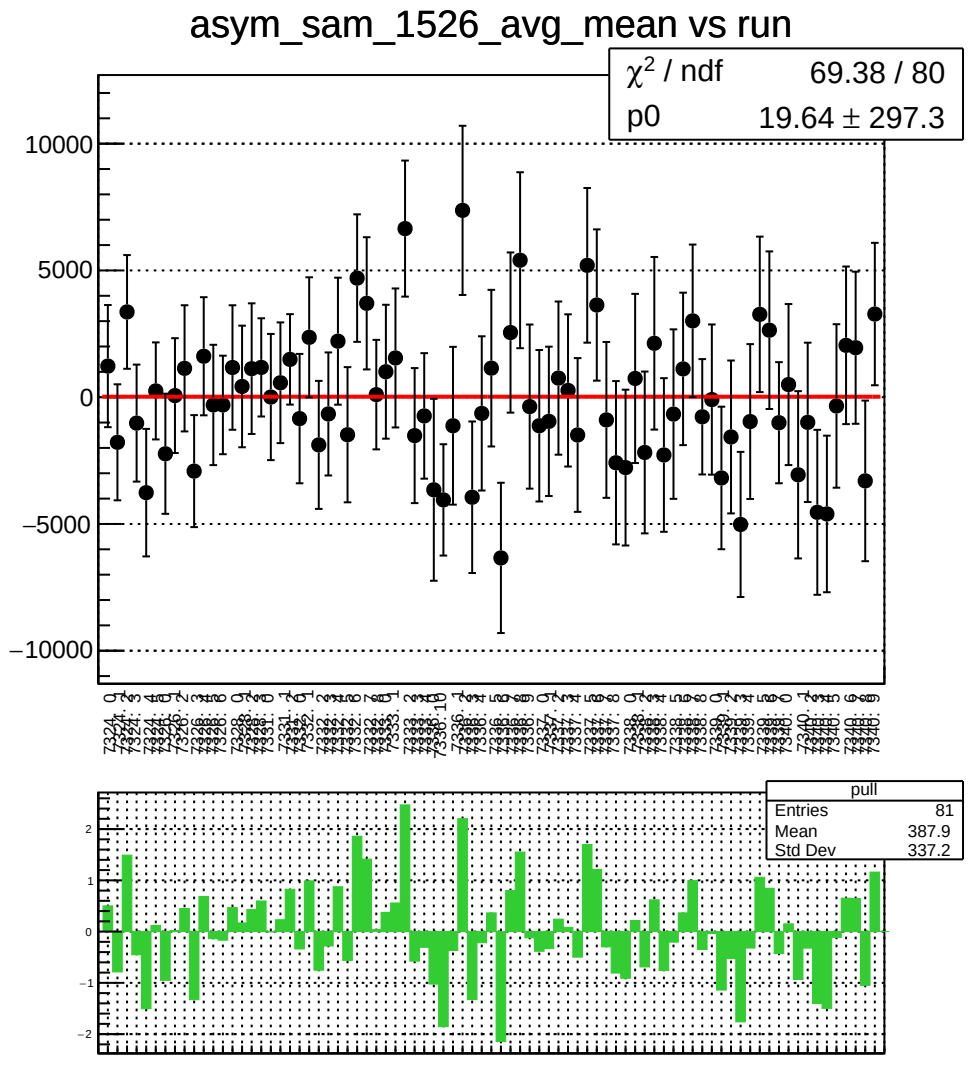

pull1D
Entries 81
Mean −0.02586
Std Dev 1.003

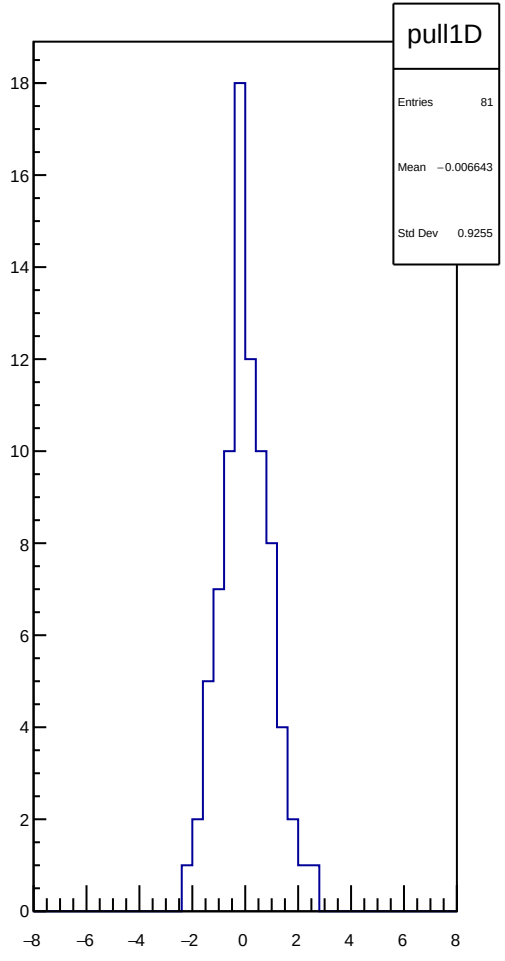

reg_asym_sam_1526_avg_rms vs run
χ^2 / ndf 2.309e+04 / 80
p0 49.91 ± 0.04026
70
65
60
55
50
45
40

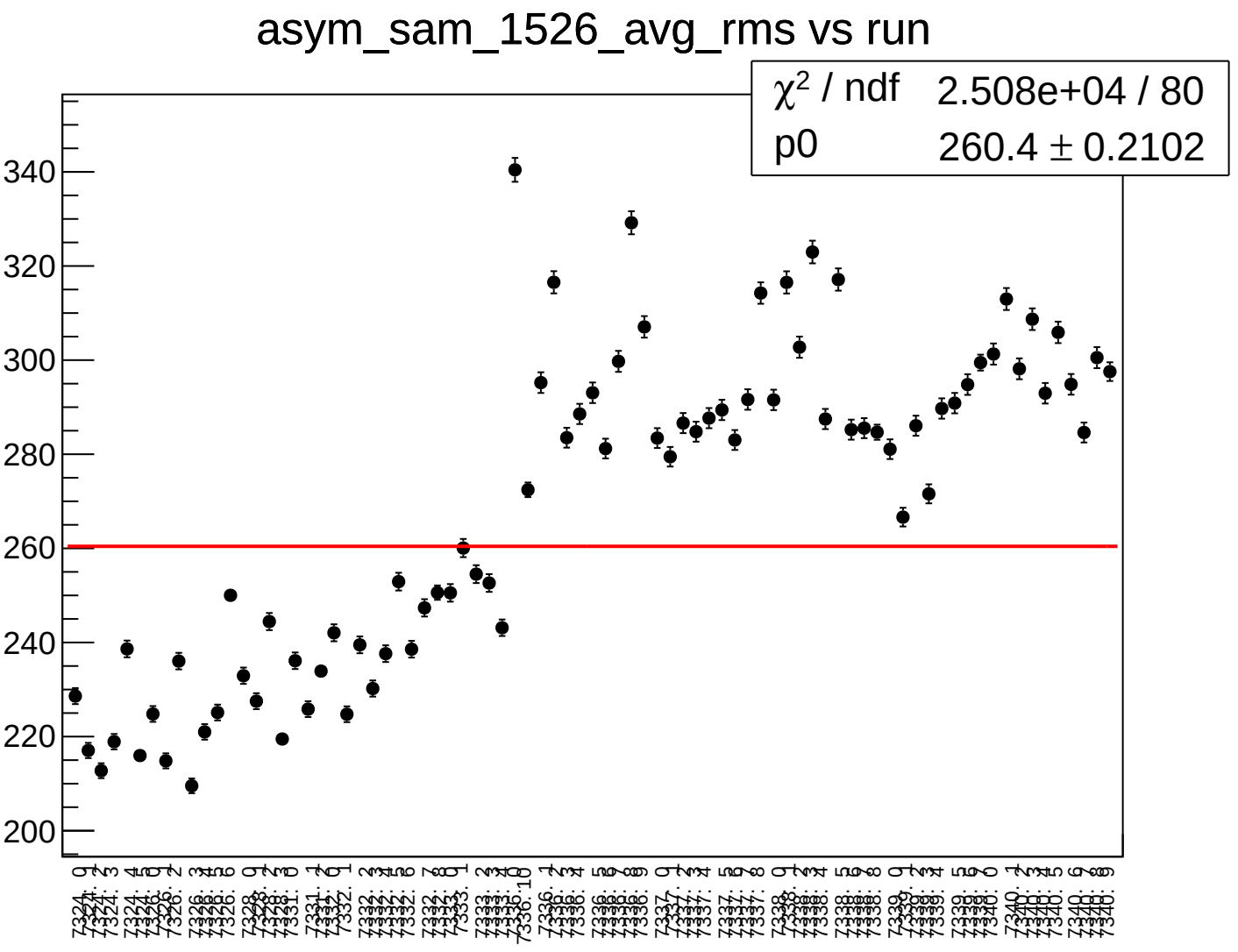

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 71.46 / 80
p0 −14.94 ± 291.7
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 658.8
Std Dev 601.8
2
1
0
−1
−2
−3

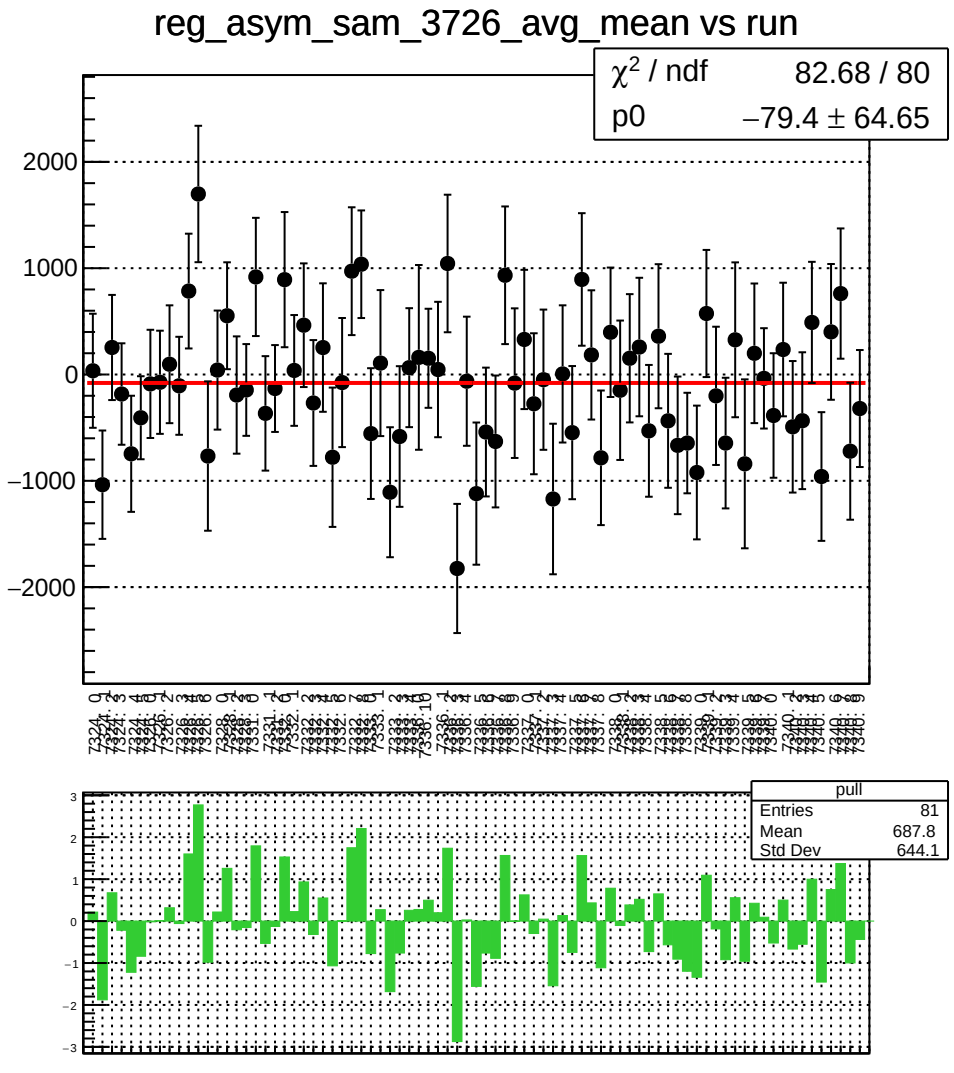

pull1D
Entries 81
Mean 0.002515
Std Dev 0.9393
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

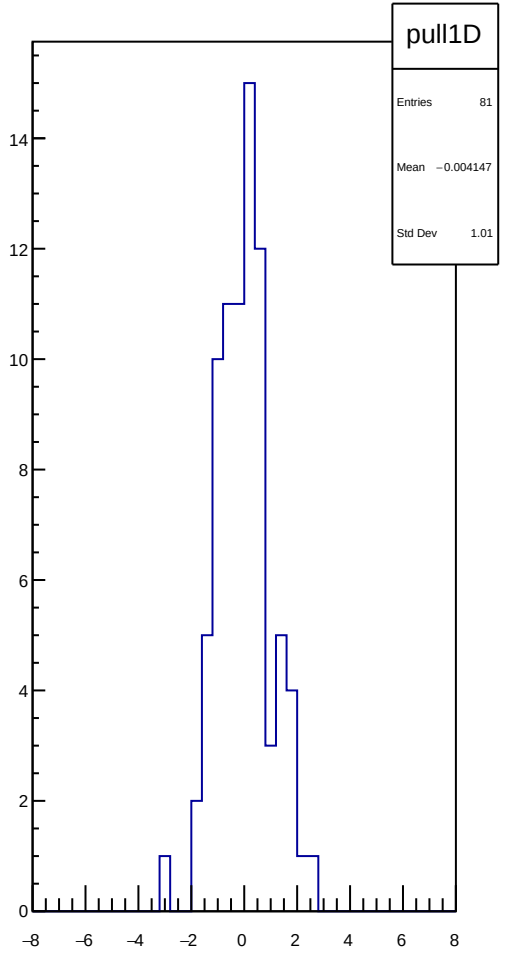

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 2.535e+04 / 80
p0 255.5 ± 0.2063
340
320
300
280
260
240
220
200

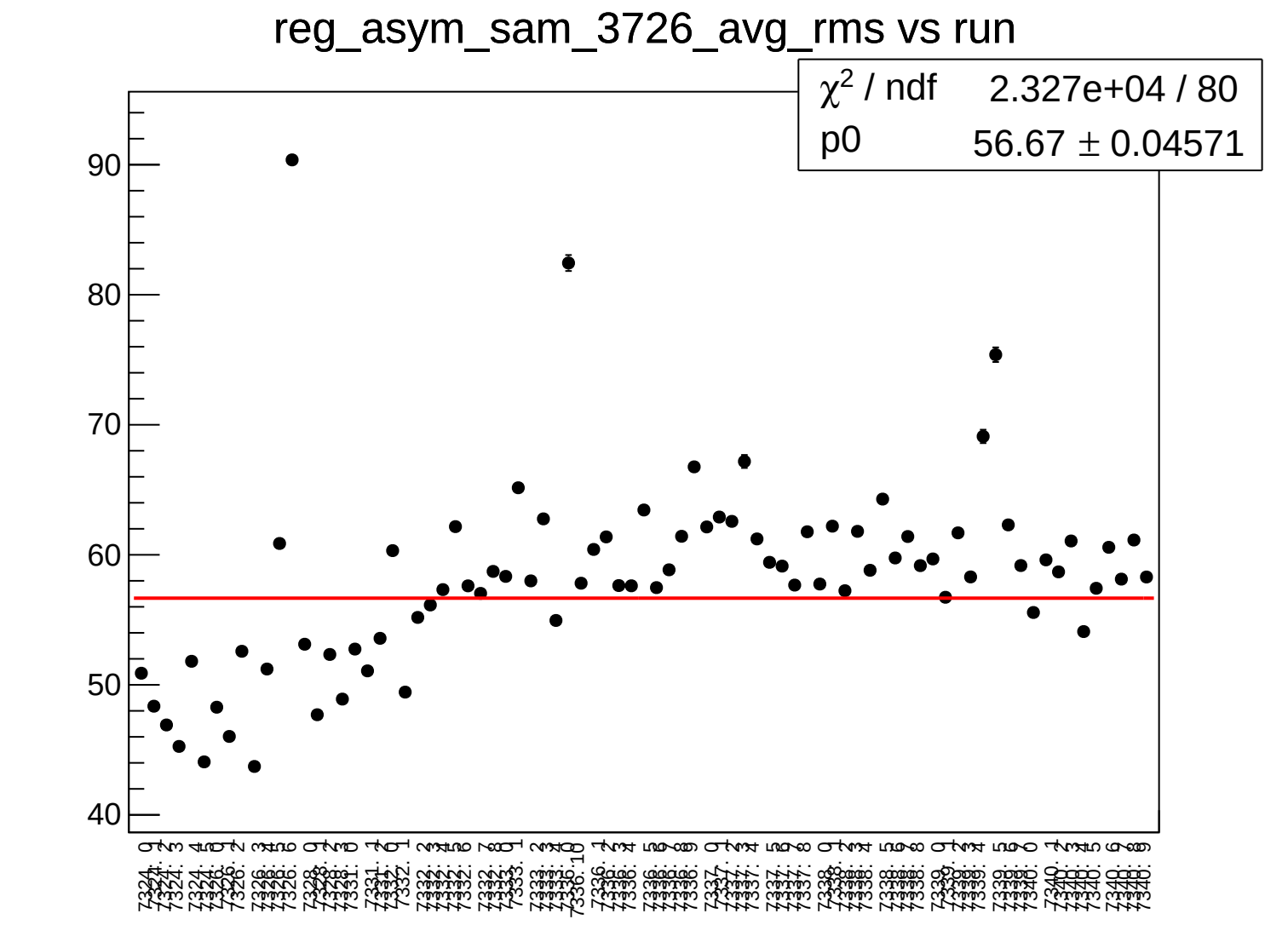

asym_sam_1526_avg_mean vs run
χ² / ndf 69.38 / 80
p0 19.64 ± 297.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 387.9
Std Dev 337.2
2
1
0
−1
−2

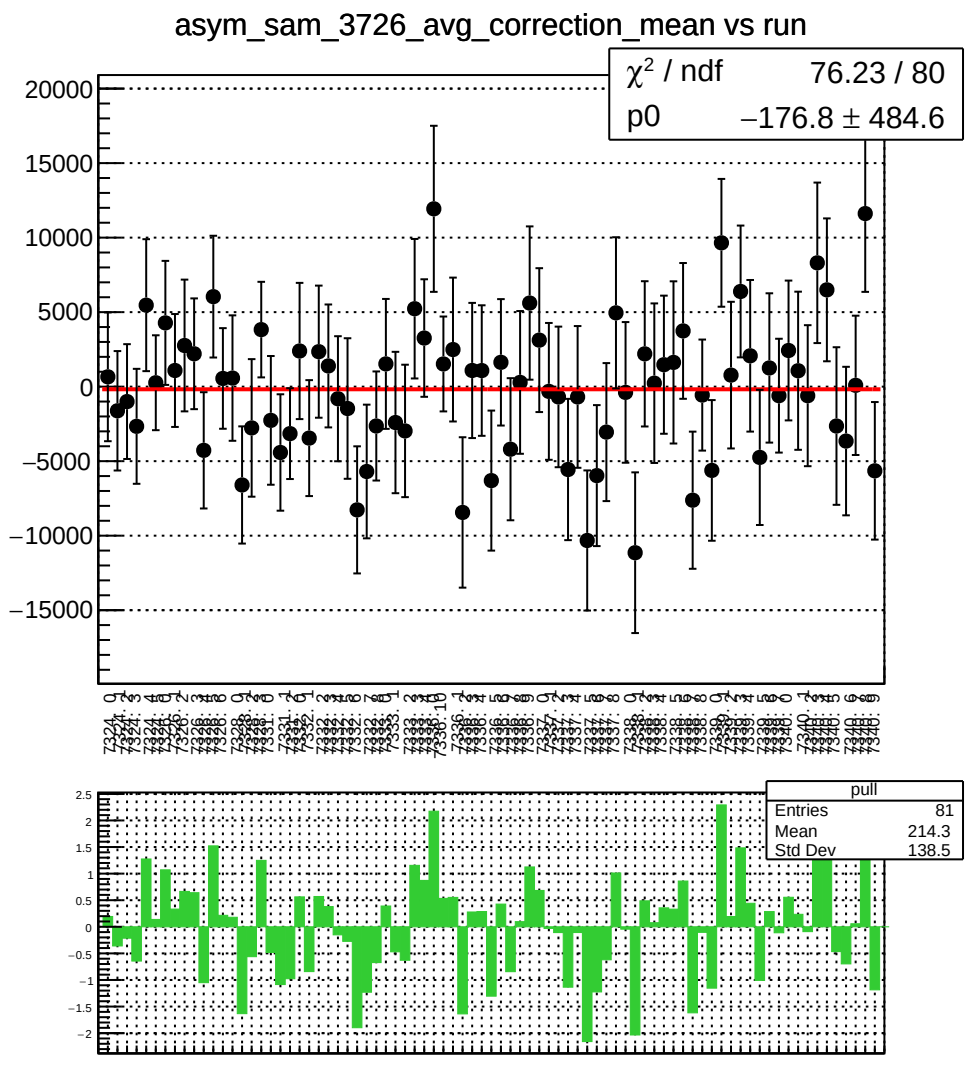

pull1D
Entries 81
Mean −0.006643
Std Dev 0.9255
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

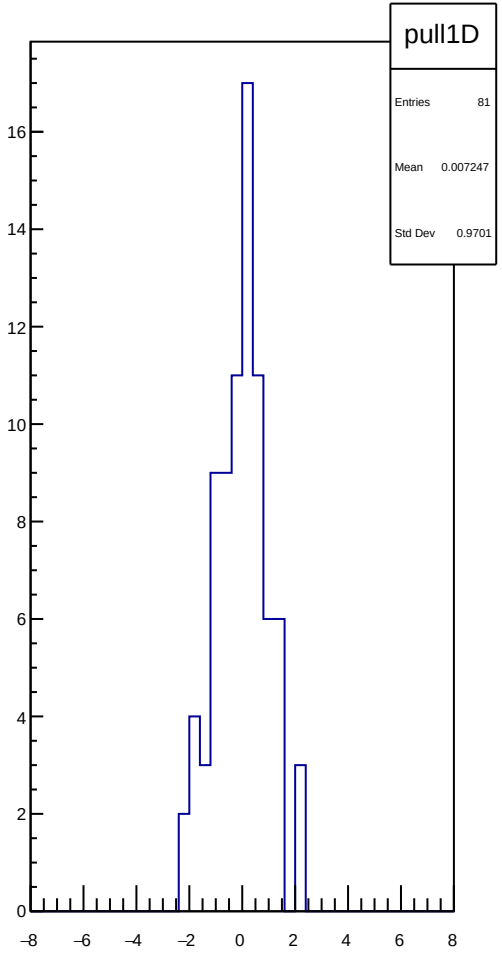

asym_sam_1526_avg_rms vs run
χ² / ndf 2.508e+04 / 80
p0 260.4 ± 0.2102
340
320
300
280
260
240
220
200

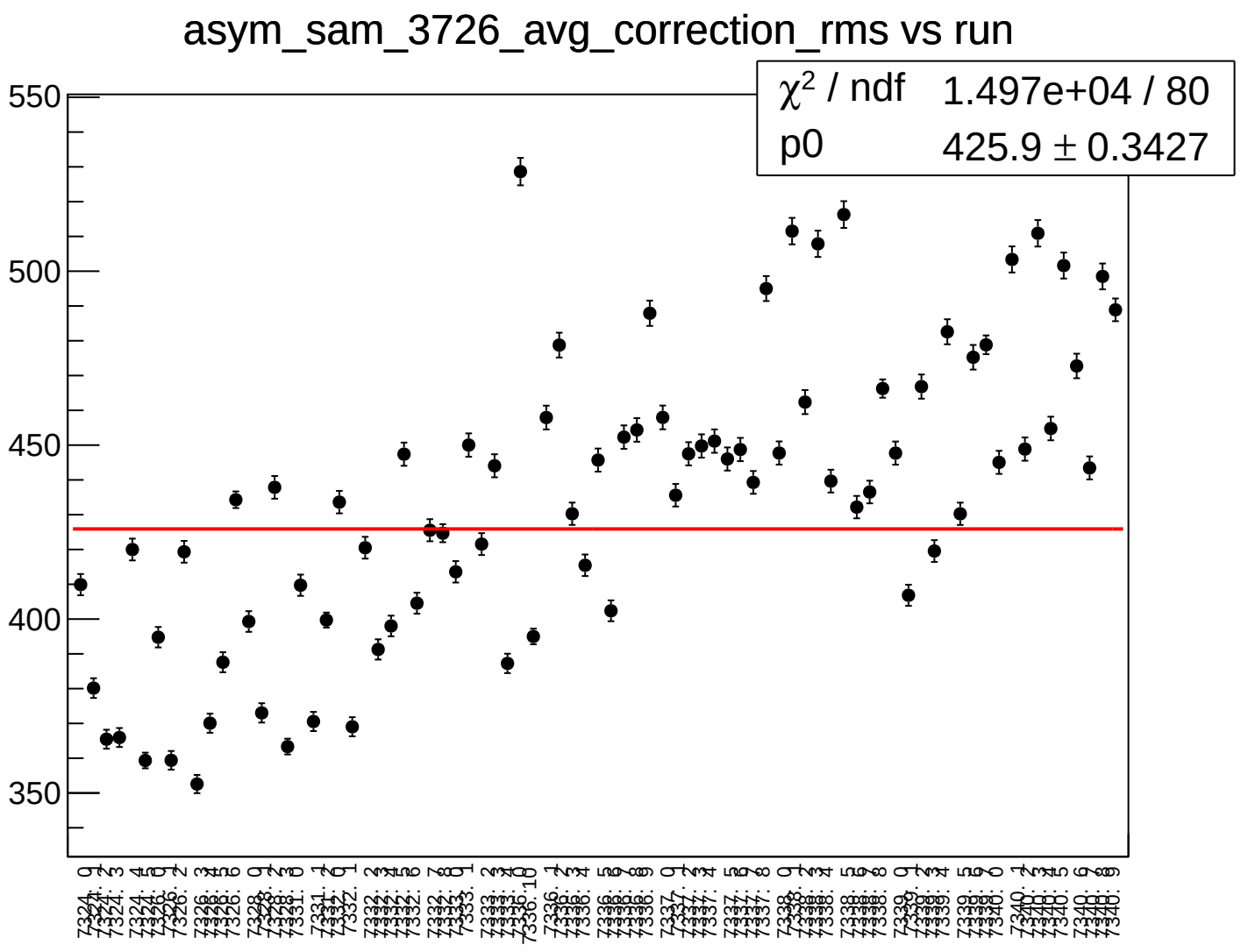

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 82.68 / 80
p0 −79.4 ± 64.65
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 687.8
Std Dev 644.1
3
2
1
0
−1
−2
−3

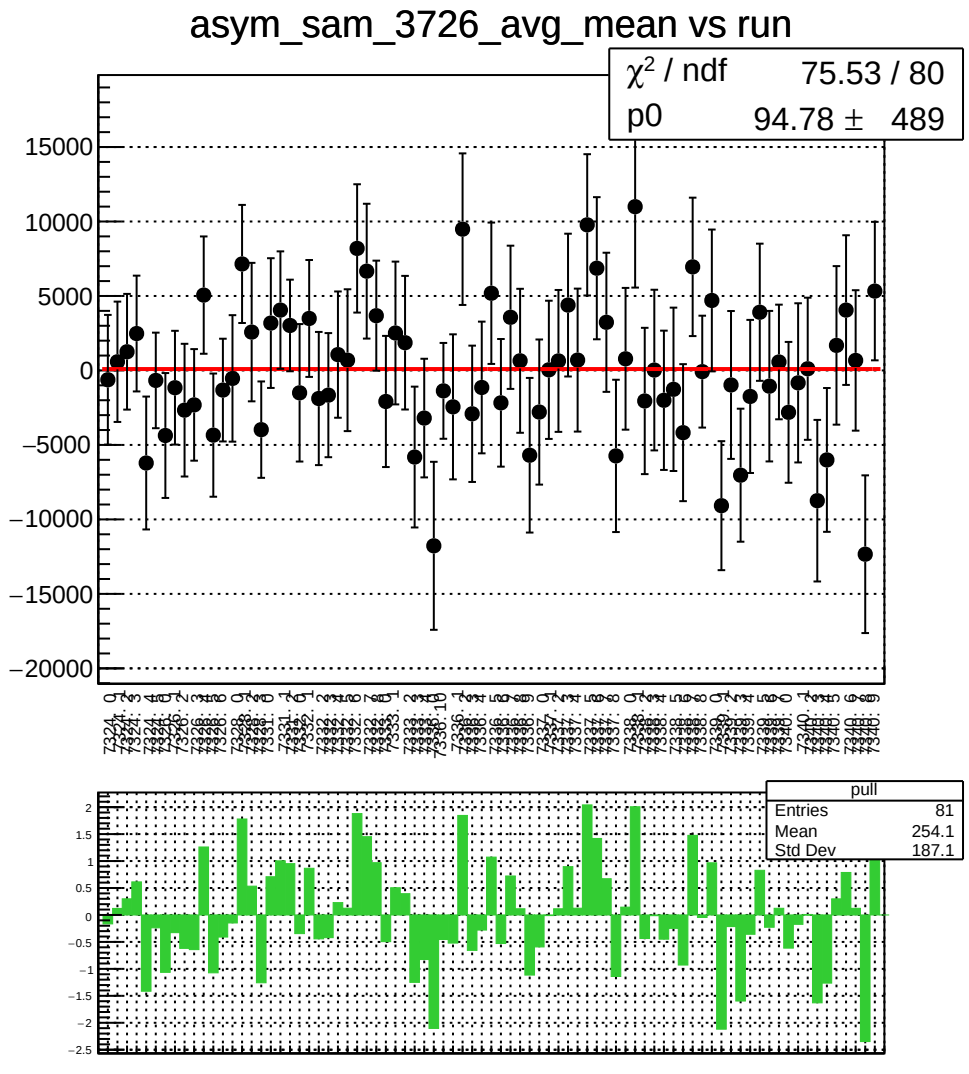

pull1D
Entries 81
Mean −0.004147
Std Dev 1.01
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

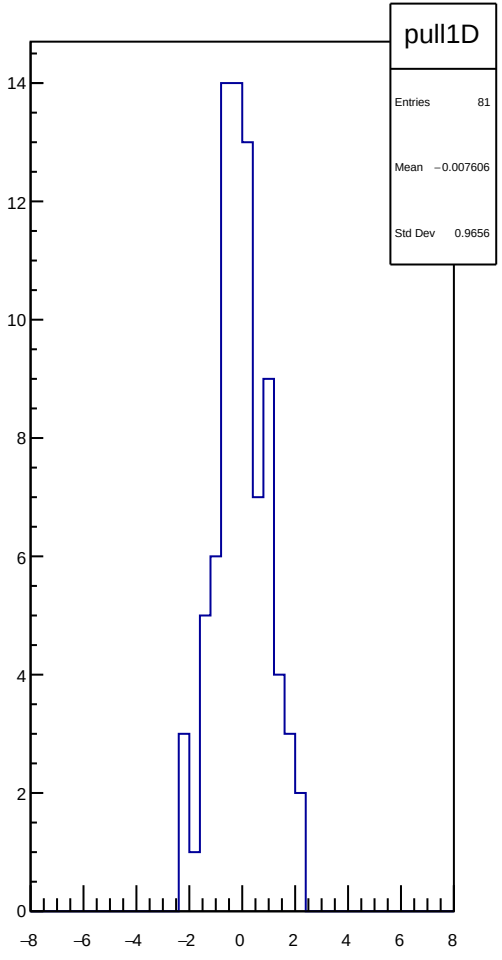

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 2.327e+04 / 80
p0 56.67 ± 0.04571
90
80
70
60
50
40

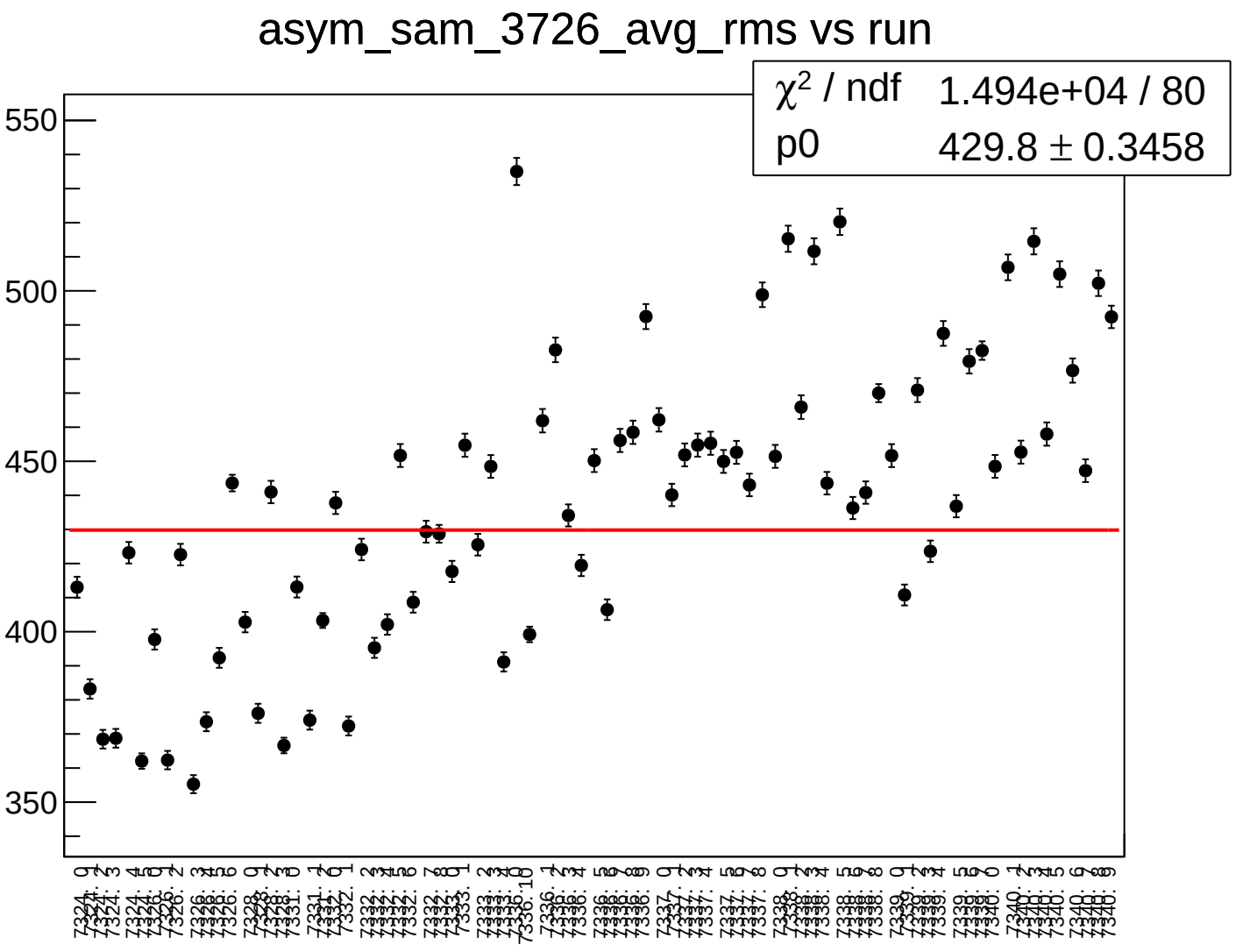

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 76.23 / 80
p0 −176.8 ± 484.6
pull
Entries 81
Mean 214.3
Std Dev 138.5

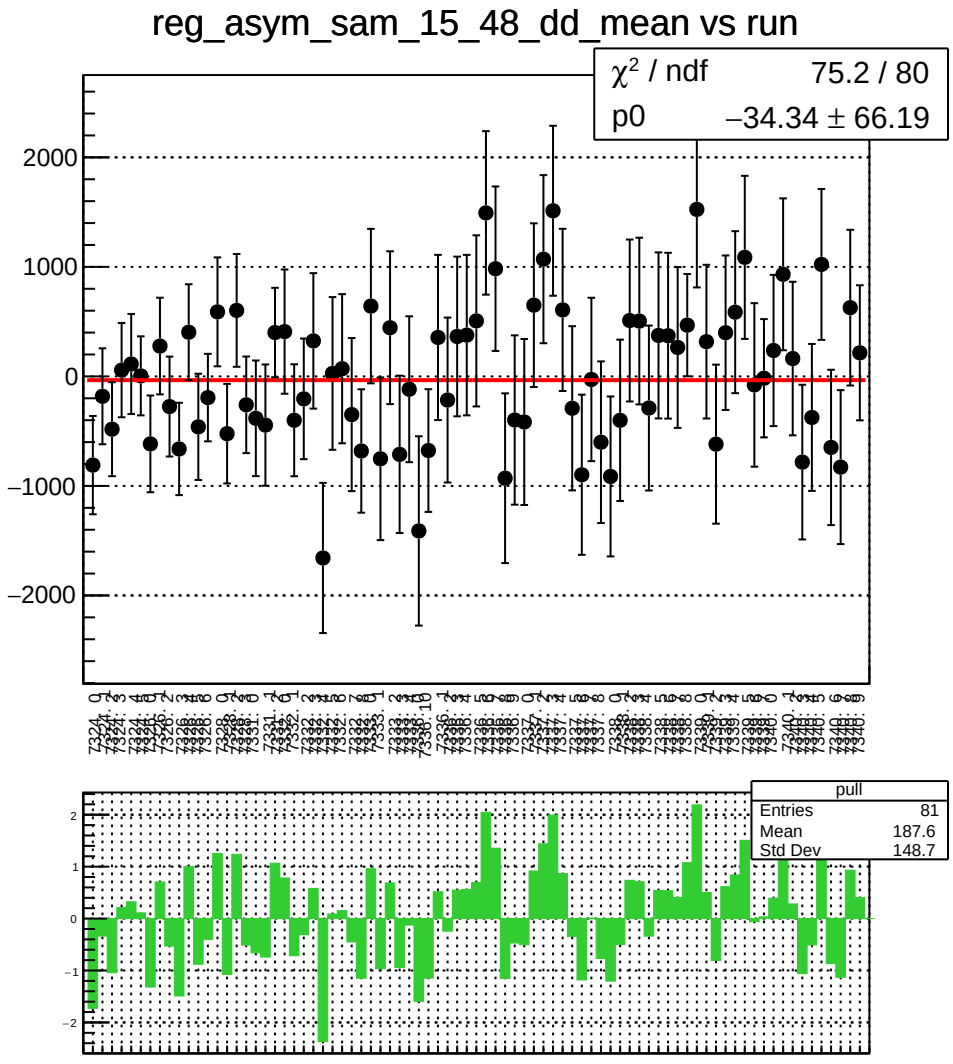

pull1D
Entries 81
Mean 0.007247
Std Dev 0.9701

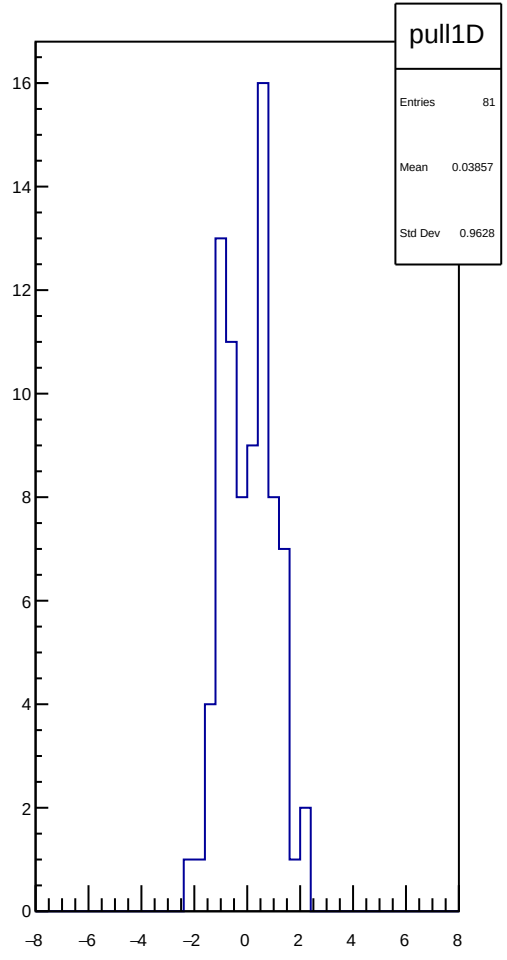

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.497e+04 / 80
p0 425.9 ± 0.3427
550
500
450
400
350


asym_sam_3726_avg_mean vs run
χ² / ndf 75.53 / 80
p0 94.78 ± 489
pull
Entries 81
Mean 254.1
Std Dev 187.1

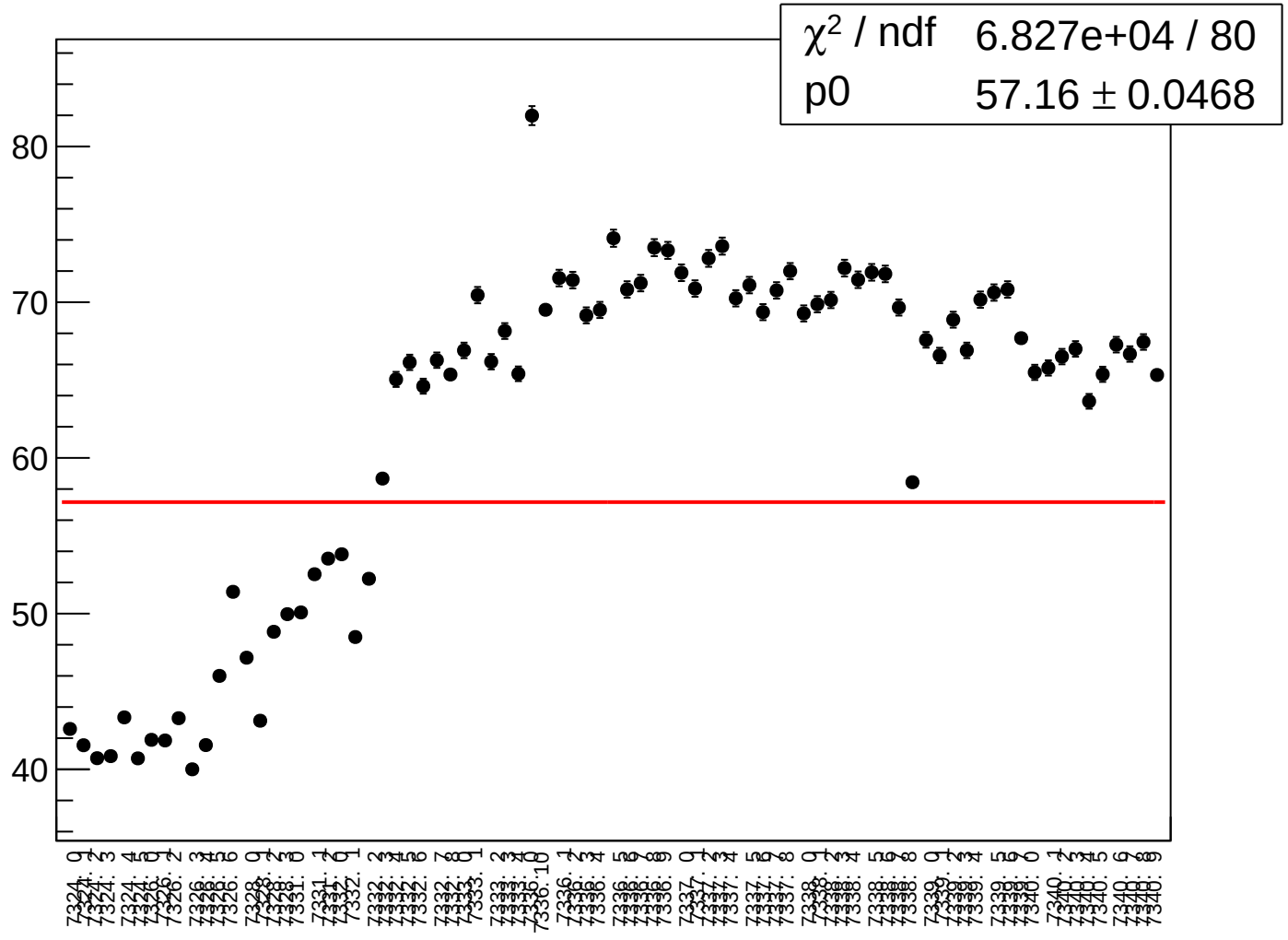

pull1D
Entries 81
Mean −0.007606
Std Dev 0.9656

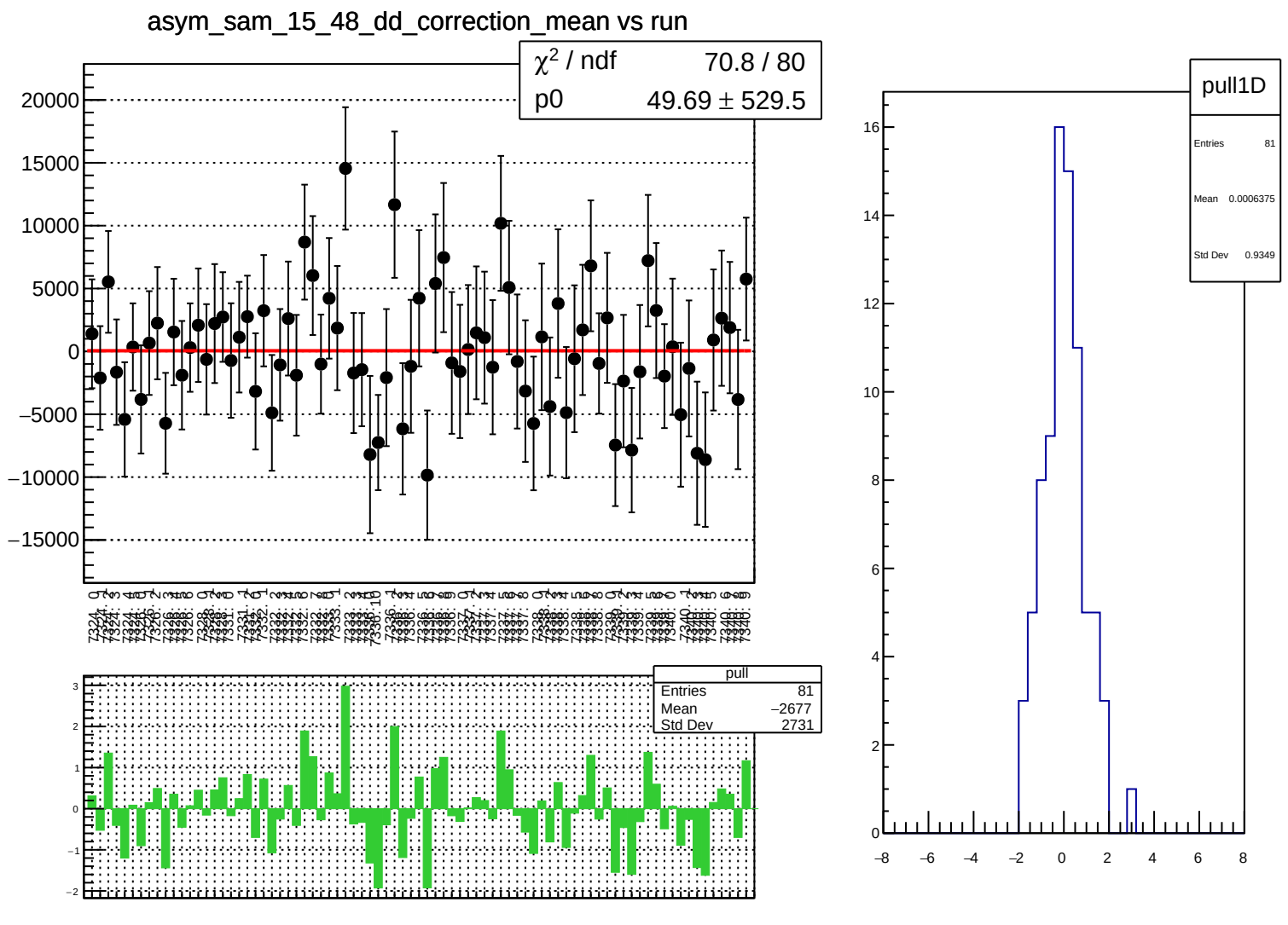

asym_sam_3726_avg_rms vs run
χ^2 / ndf 1.494e+04 / 80
p0 429.8 ± 0.3458
550
500
450
400
350

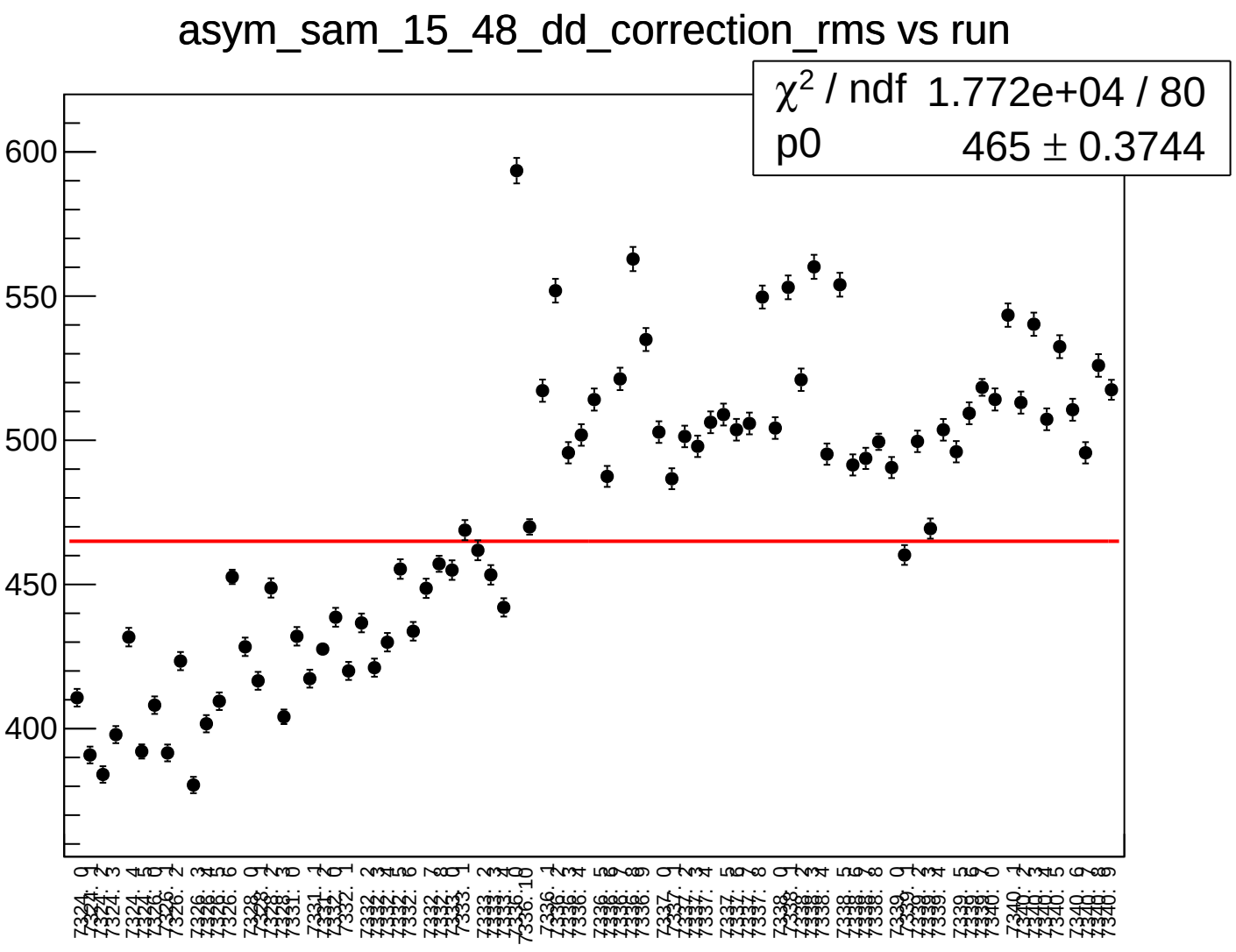

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 75.2 / 80
p0 −34.34 ± 66.19
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 187.6
Std Dev 148.7
2
1
0
−1
−2

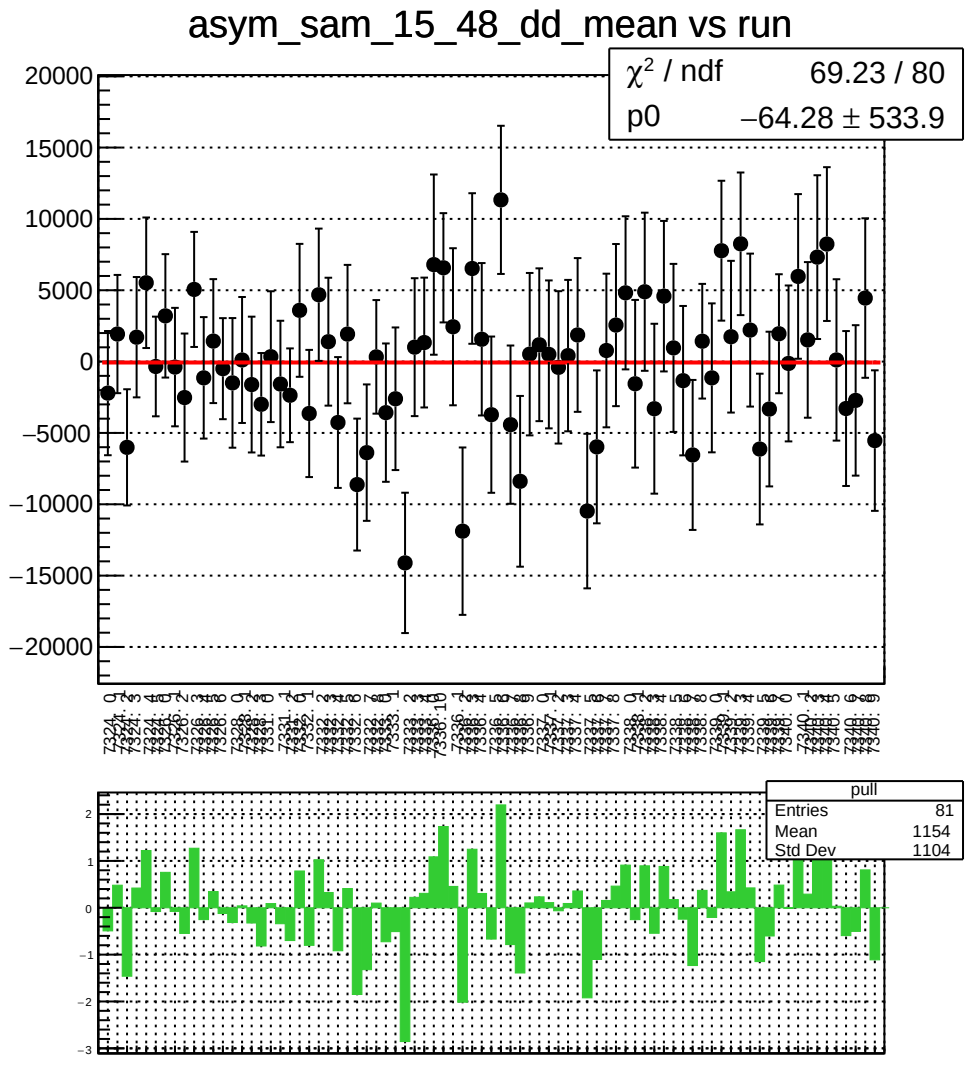

pull1D
Entries 81
Mean 0.03857
Std Dev 0.9628
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

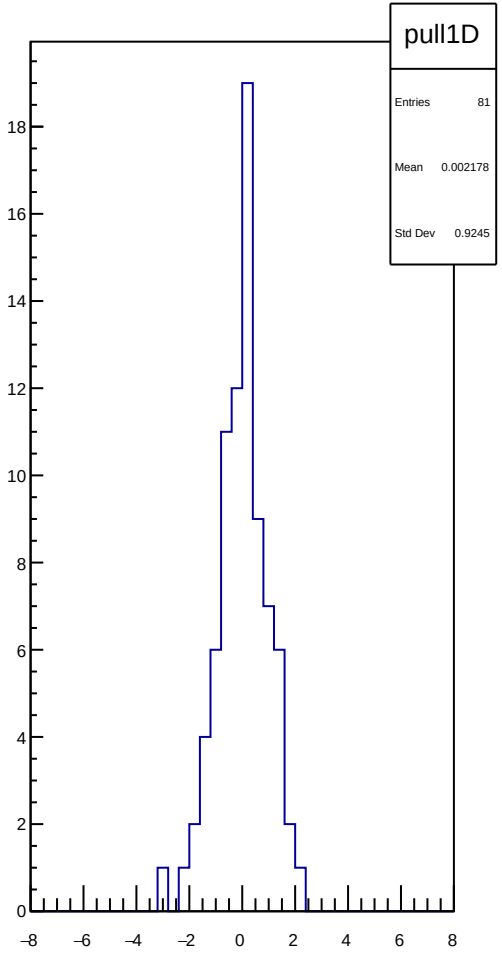
reg_asym_sam_15_48_dd_rms vs run

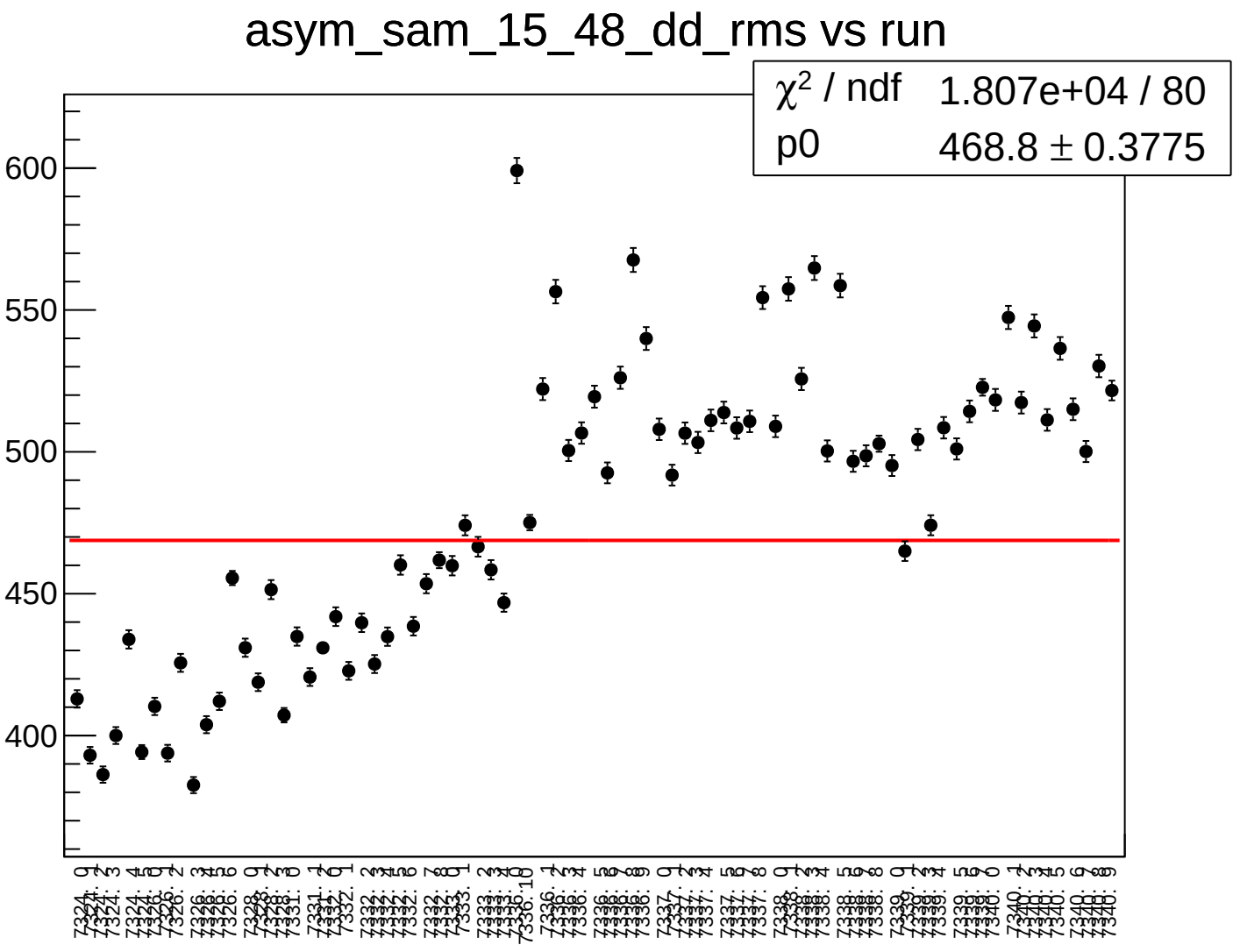


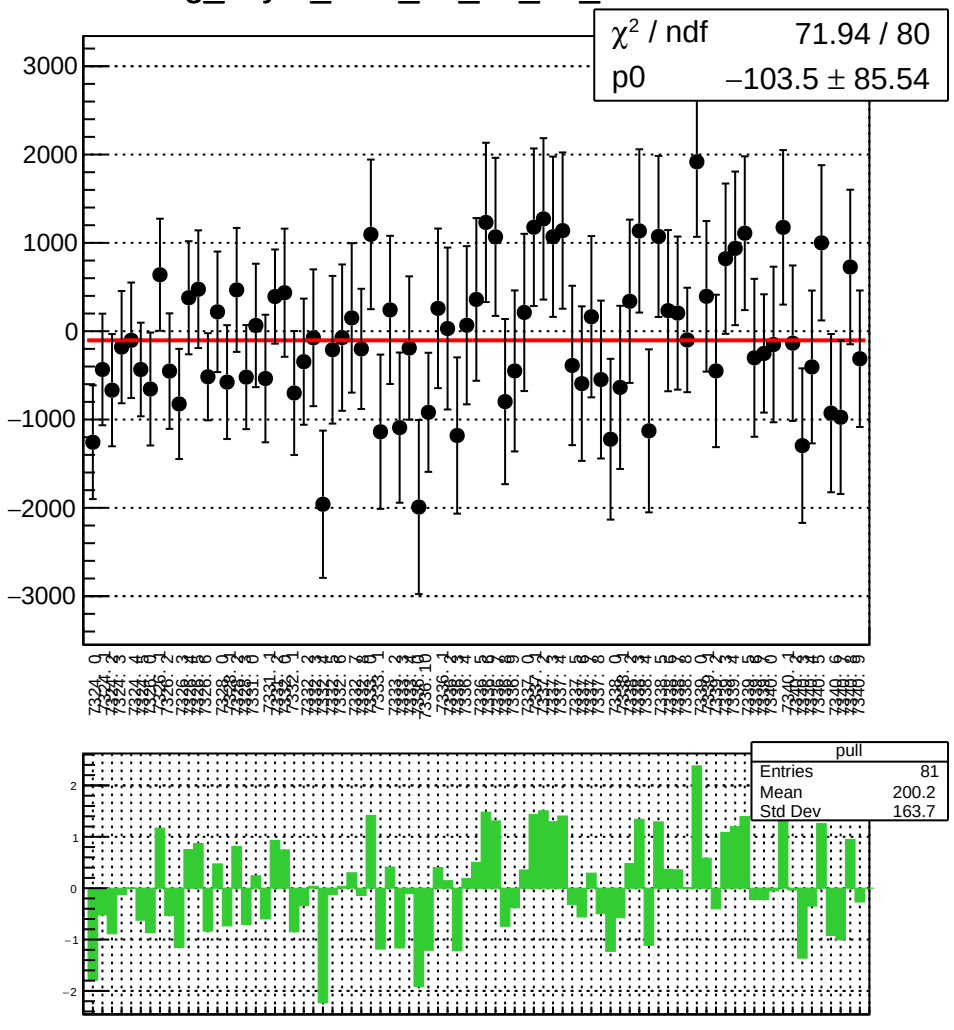

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 70.8 / 80
p0 49.69 ± 529.5
pull
Entries 81
Mean −2677
Std Dev 2731
pull1D
Entries 81
Mean 0.0006375
Std Dev 0.9349

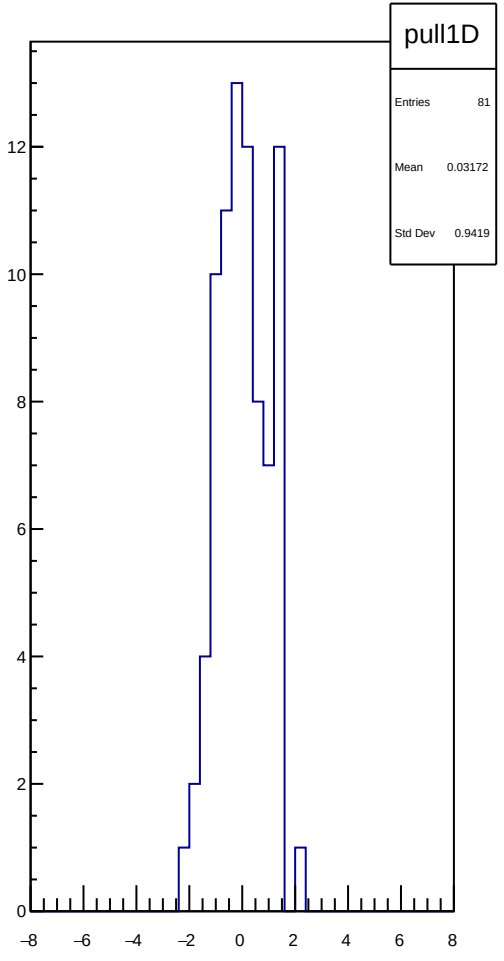

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 1.772e+04 / 80
p0 465 ± 0.3744
600
550
500
450
400

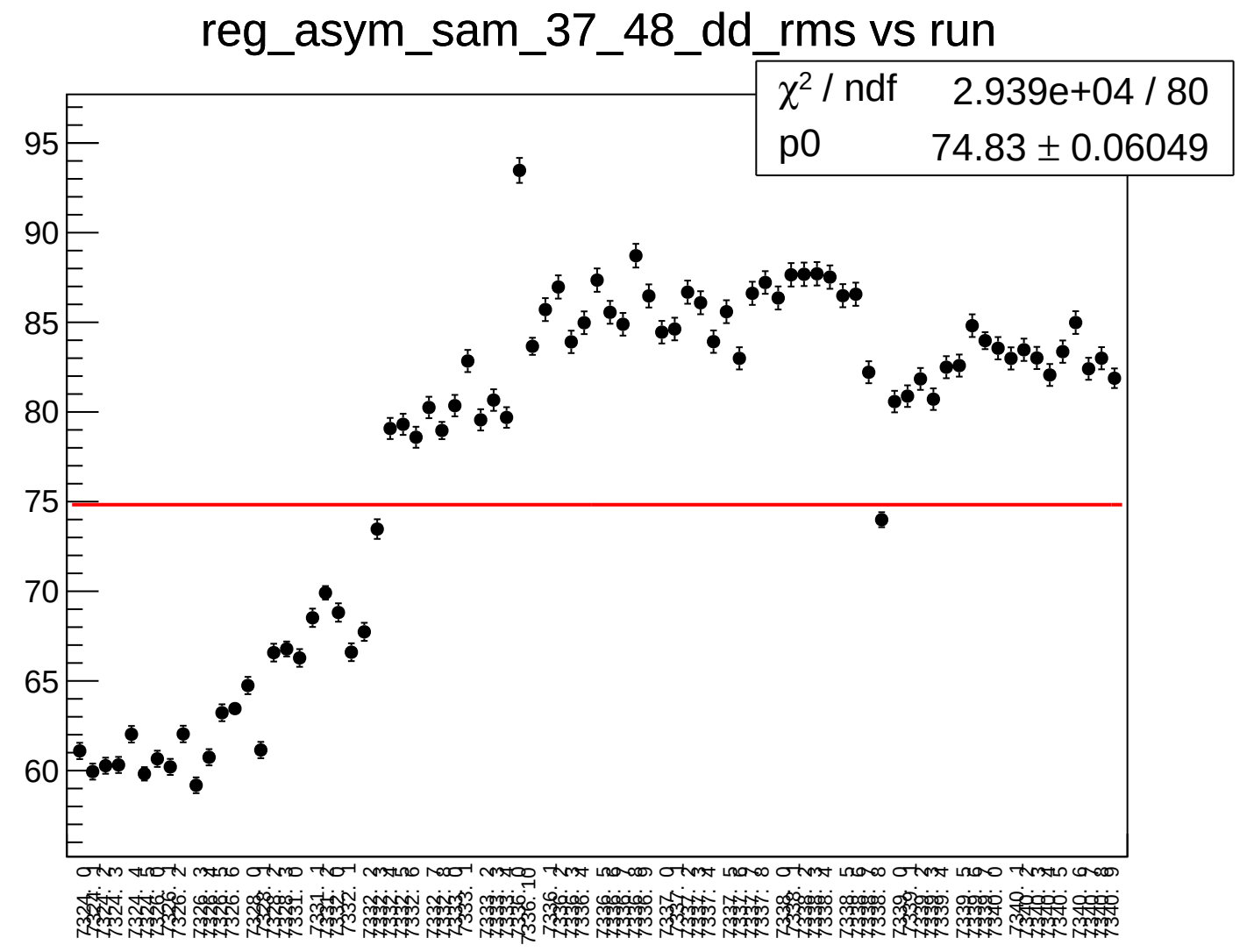

asym_sam_15_48_dd_mean vs run
χ² / ndf 69.23 / 80
p0 −64.28 ± 533.9
pull
Entries 81
Mean 1154
Std Dev 1104

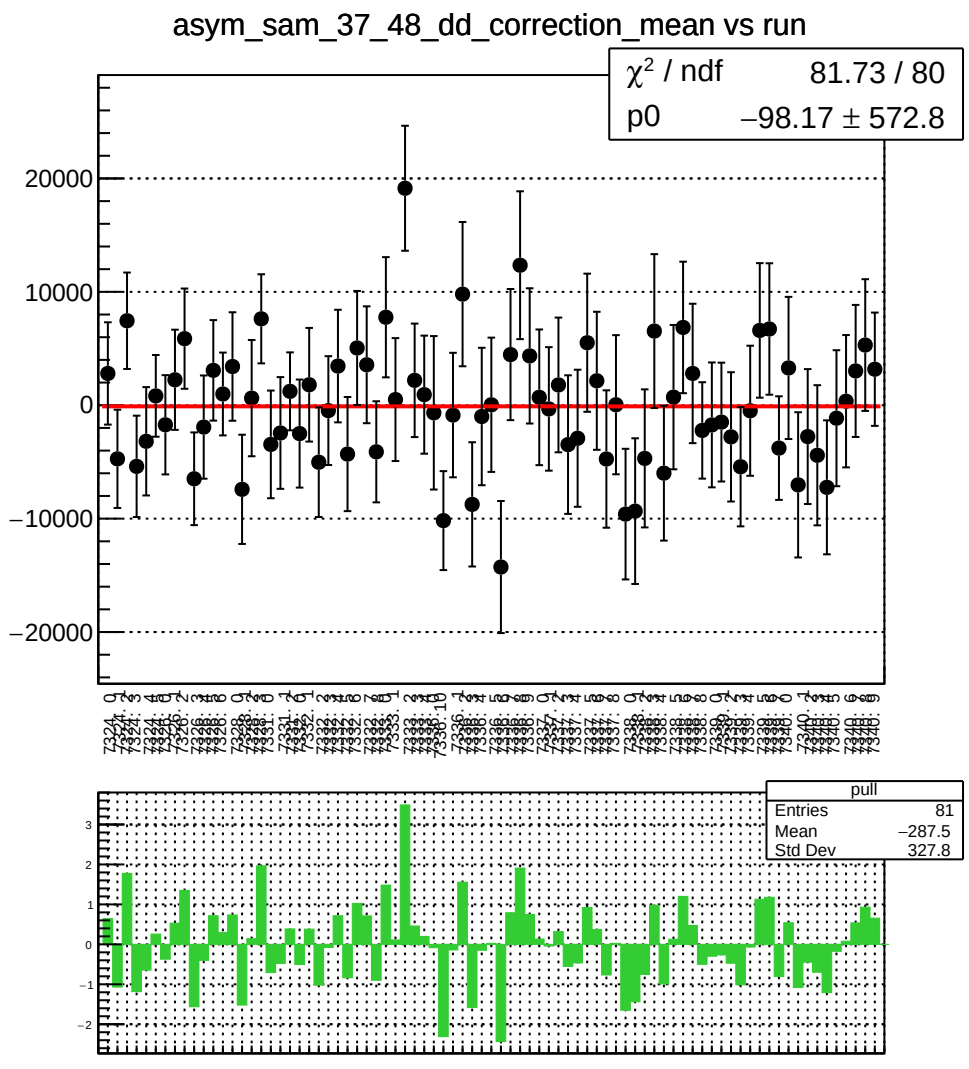

pull1D
Entries 81
Mean 0.002178
Std Dev 0.9245

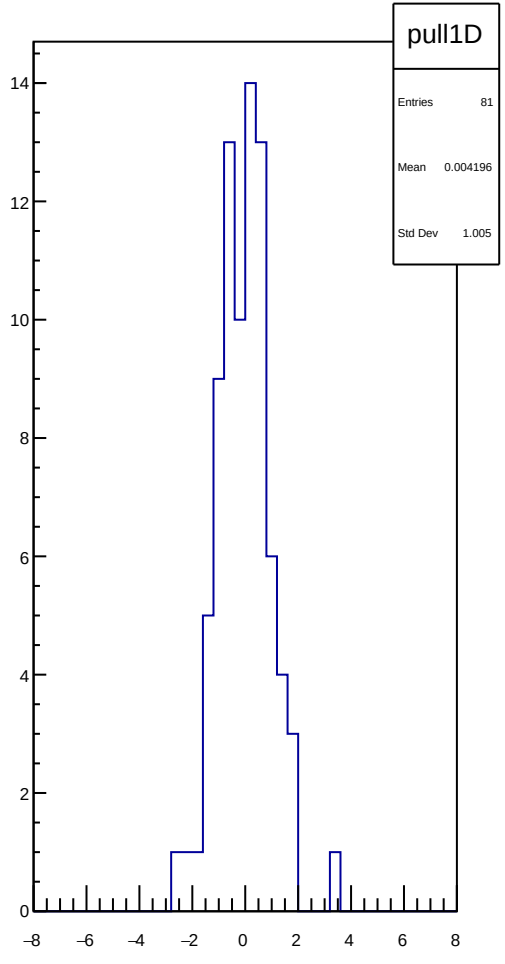

asym_sam_15_48_dd_rms vs run
χ² / ndf 1.807e+04 / 80
p0 468.8 ± 0.3775
600
550
500
450
400

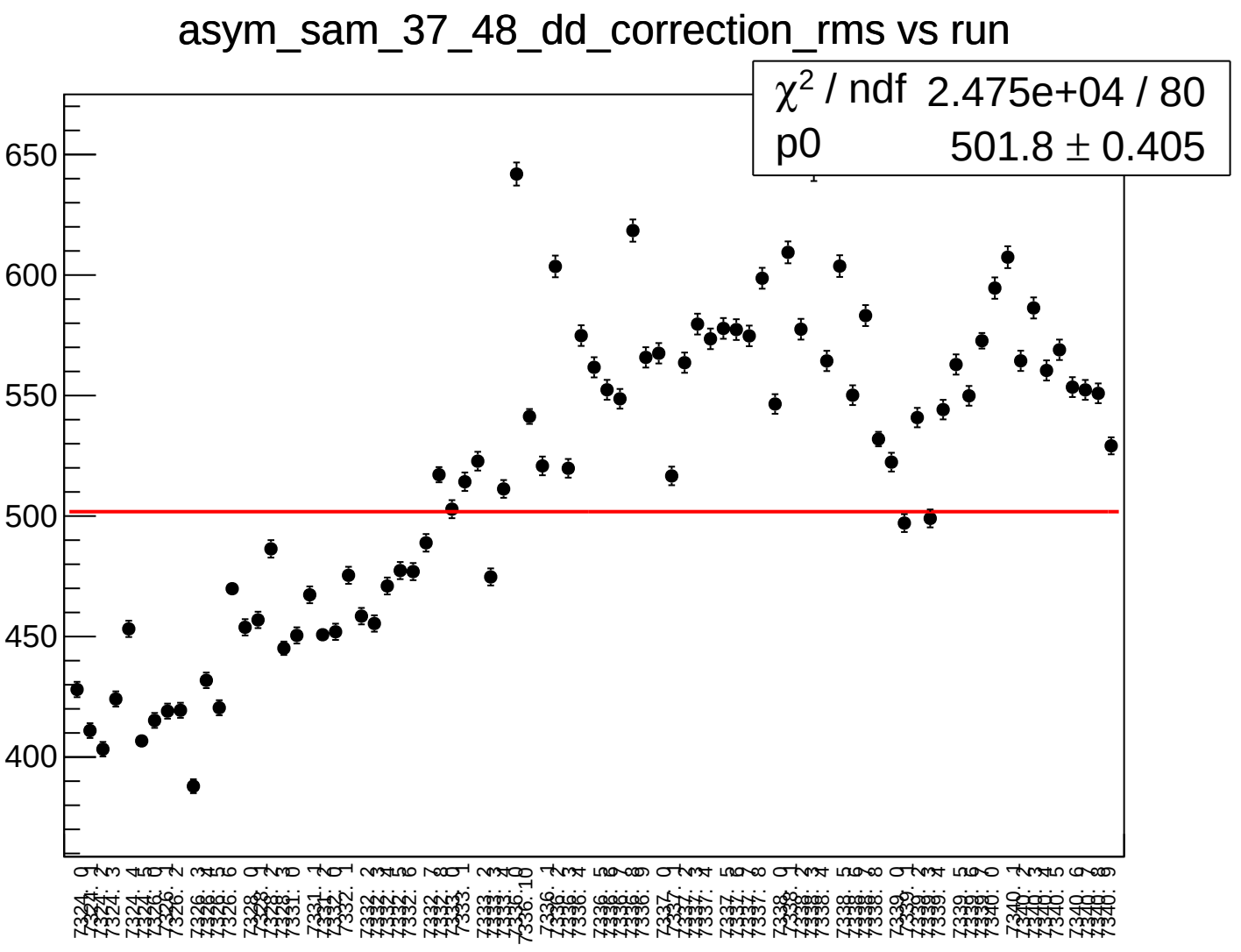

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 71.94 / 80
p0 −103.5 ± 85.54
pull
Entries 81
Mean 200.2
Std Dev 163.7

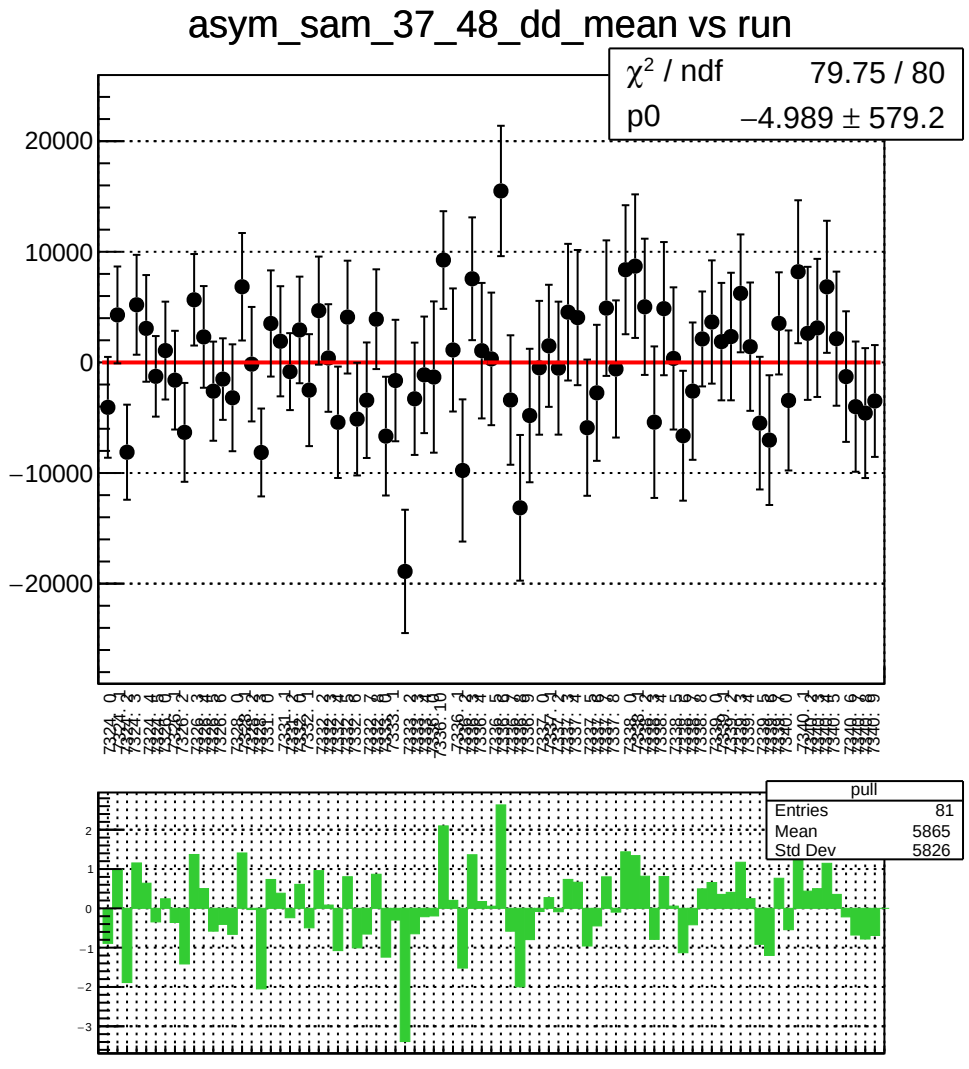

pull1D
Entries 81
Mean 0.03172
Std Dev 0.9419

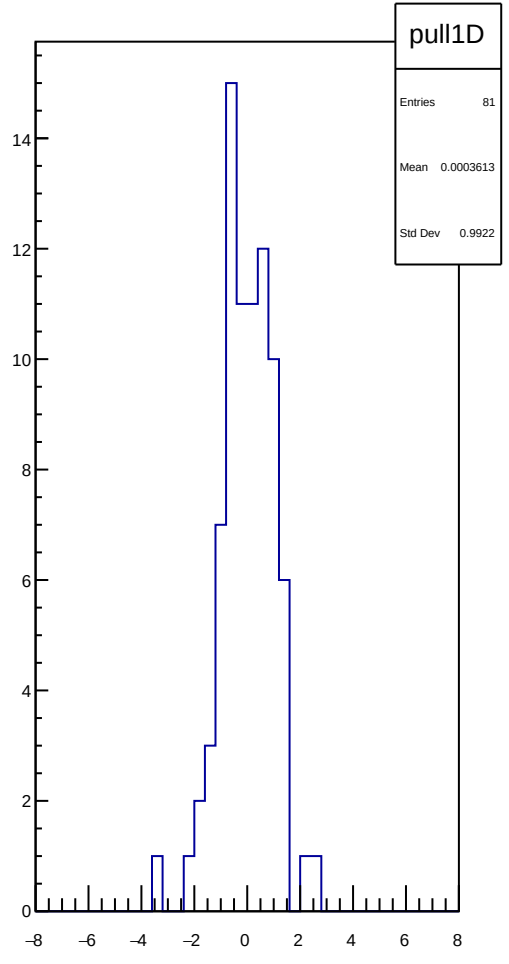

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 2.939e+04 / 80
p0 74.83 ± 0.06049
95
90
85
80
75
70
65
60

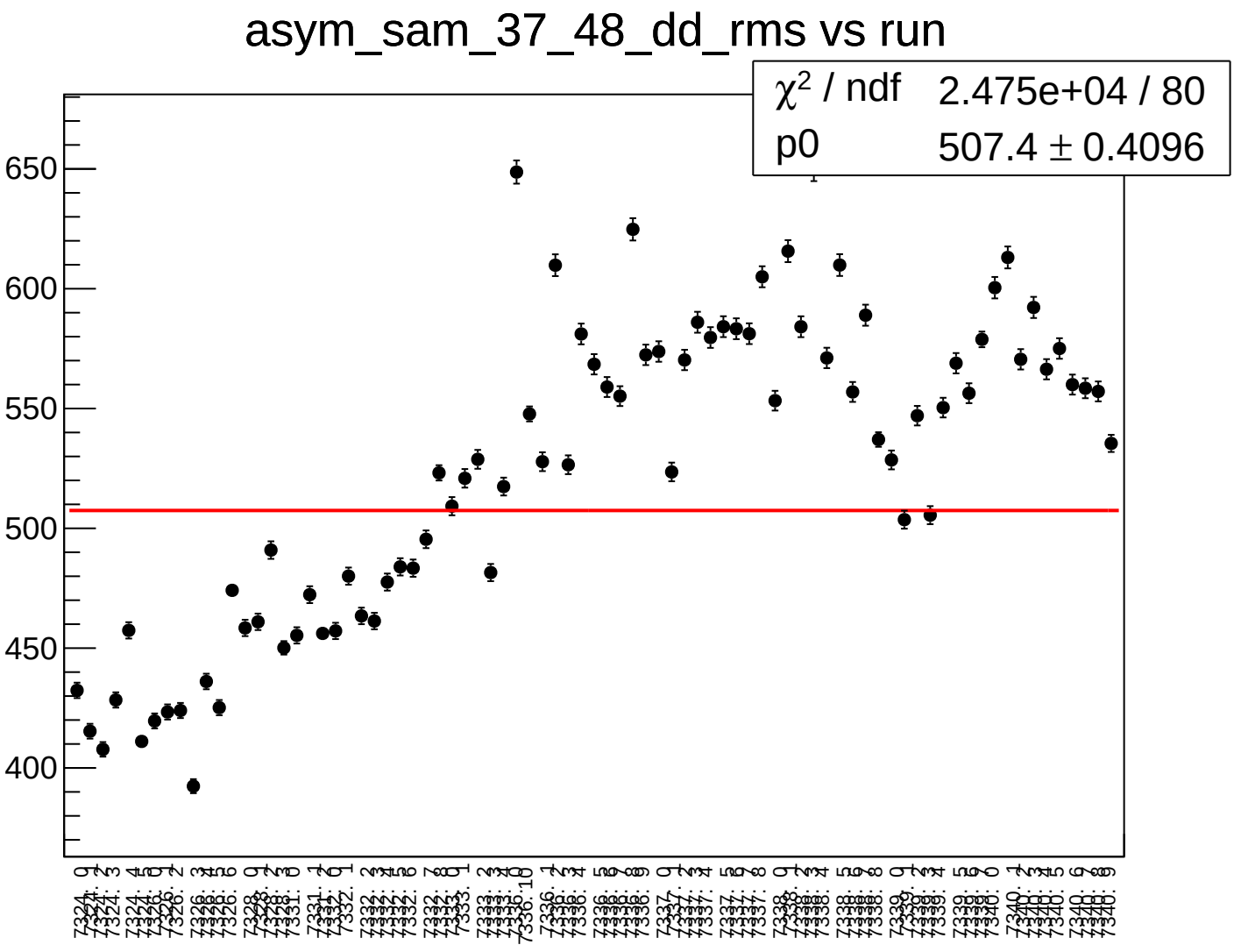

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 81.73 / 80
p0 −98.17 ± 572.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean −287.5
Std Dev 327.8
3
2
1
0
−1
−2

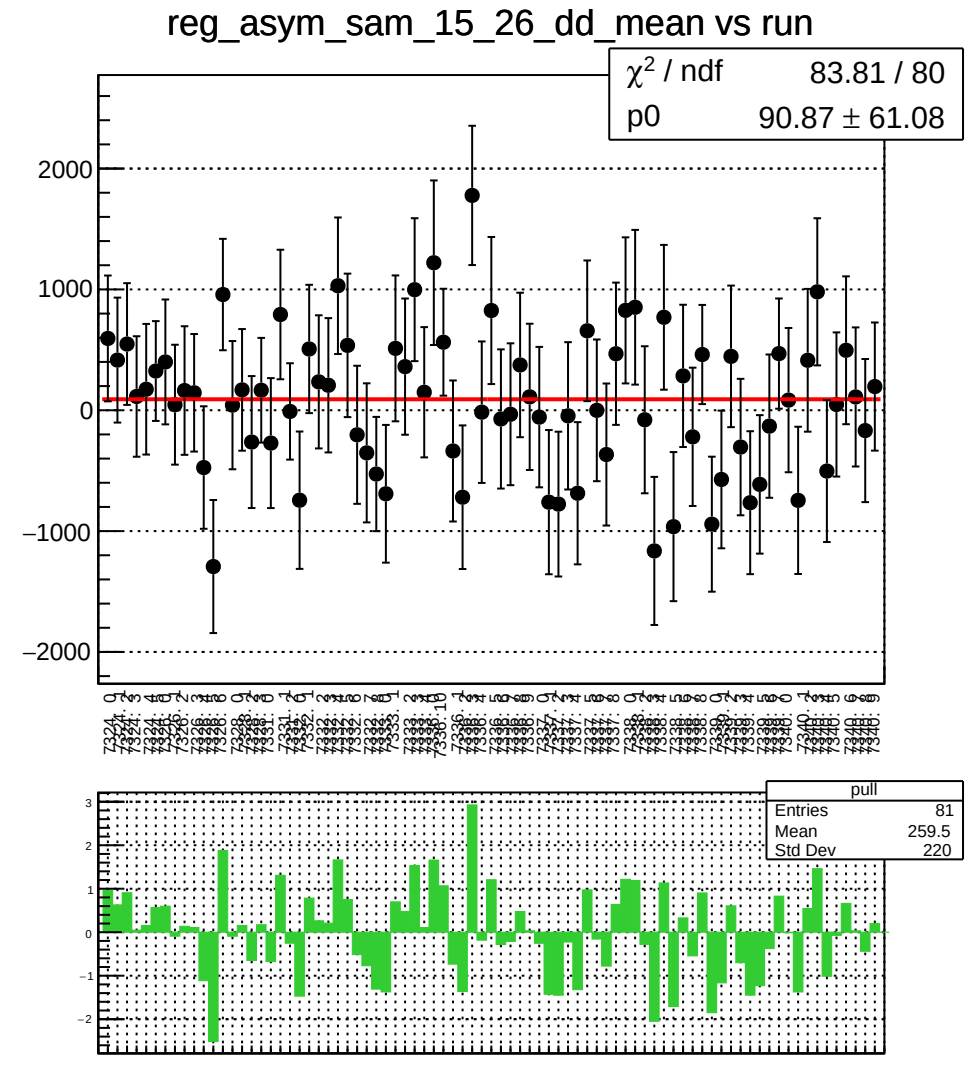

pull1D
Entries 81
Mean 0.004196
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

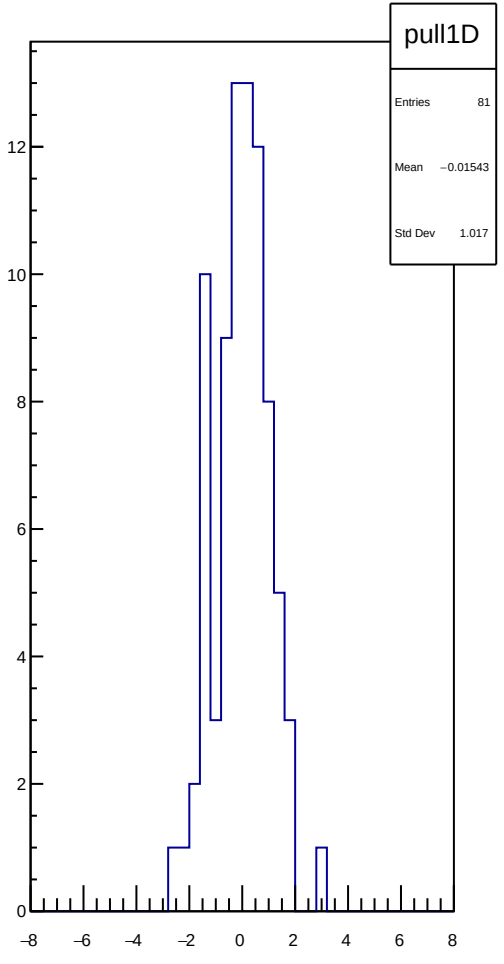

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 2.475e+04 / 80
p0 501.8 ± 0.405
650
600
550
500
450
400

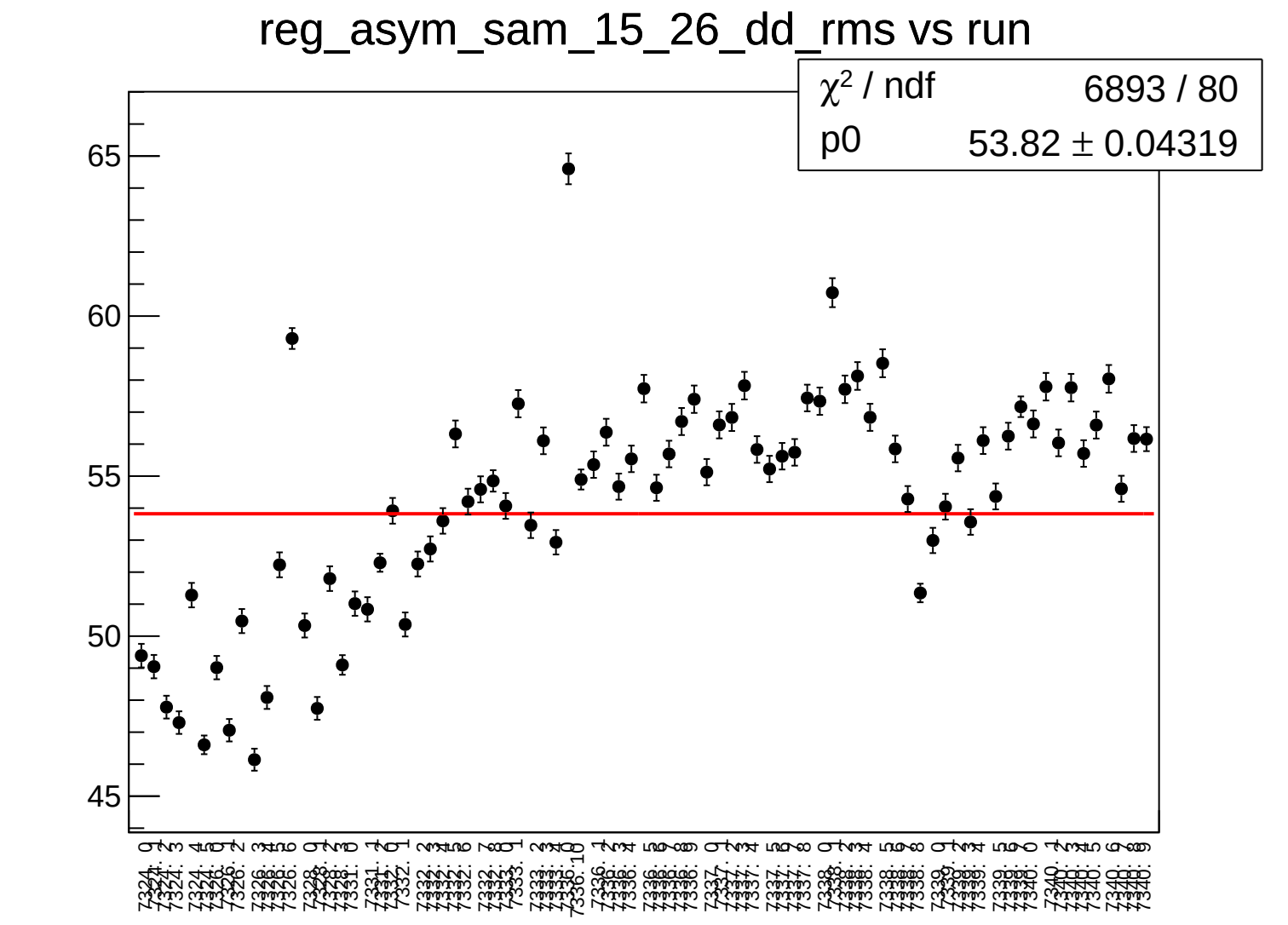

asym_sam_37_48_dd_mean vs run
χ² / ndf 79.75 / 80
p0 −4.989 ± 579.2
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 5865
Std Dev 5826
2
1
0
−1
−2
−3

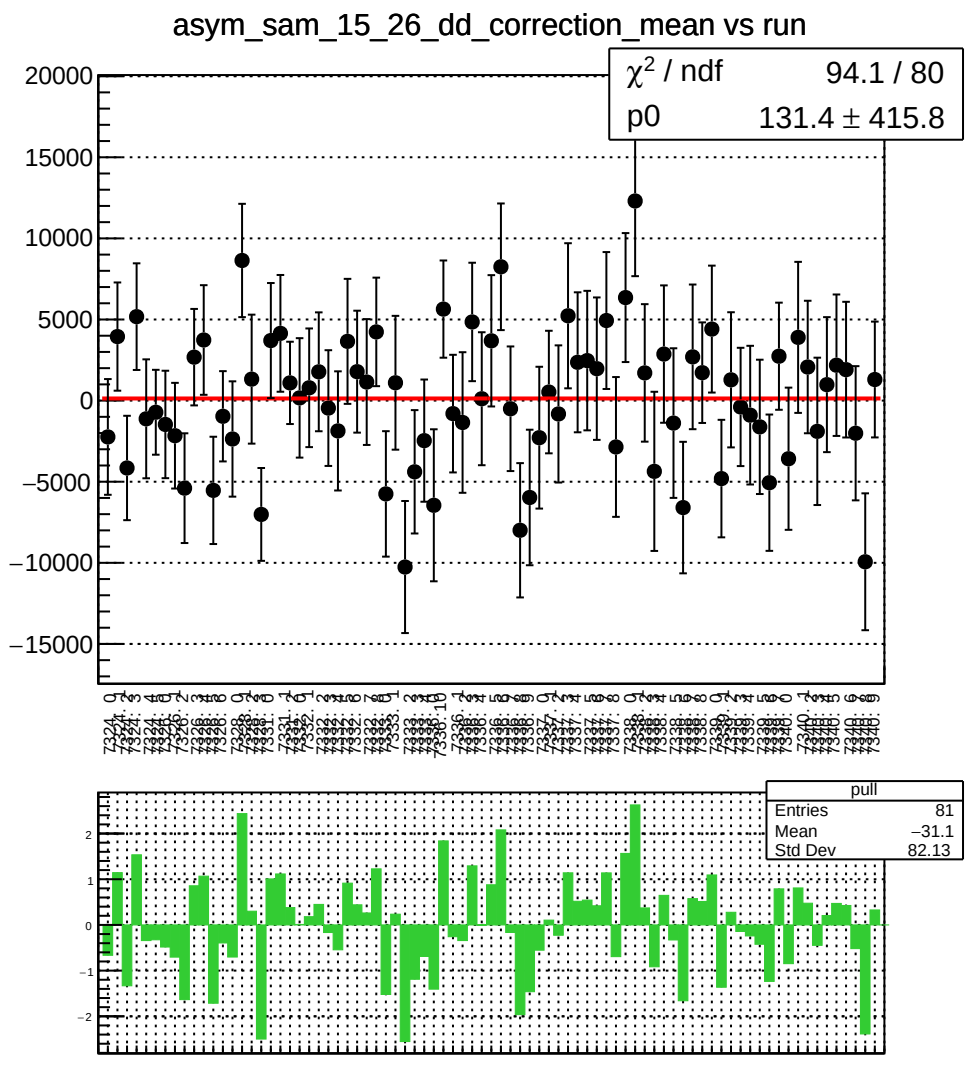

pull1D
Entries 81
Mean 0.0003613
Std Dev 0.9922
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

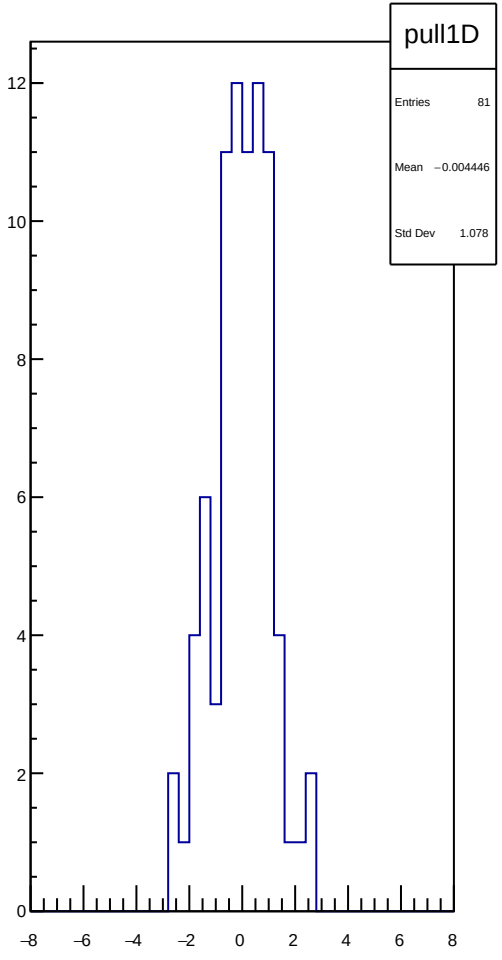

asym_sam_37_48_dd_rms vs run
χ² / ndf 2.475e+04 / 80
p0 507.4 ± 0.4096
650
600
550
500
450
400

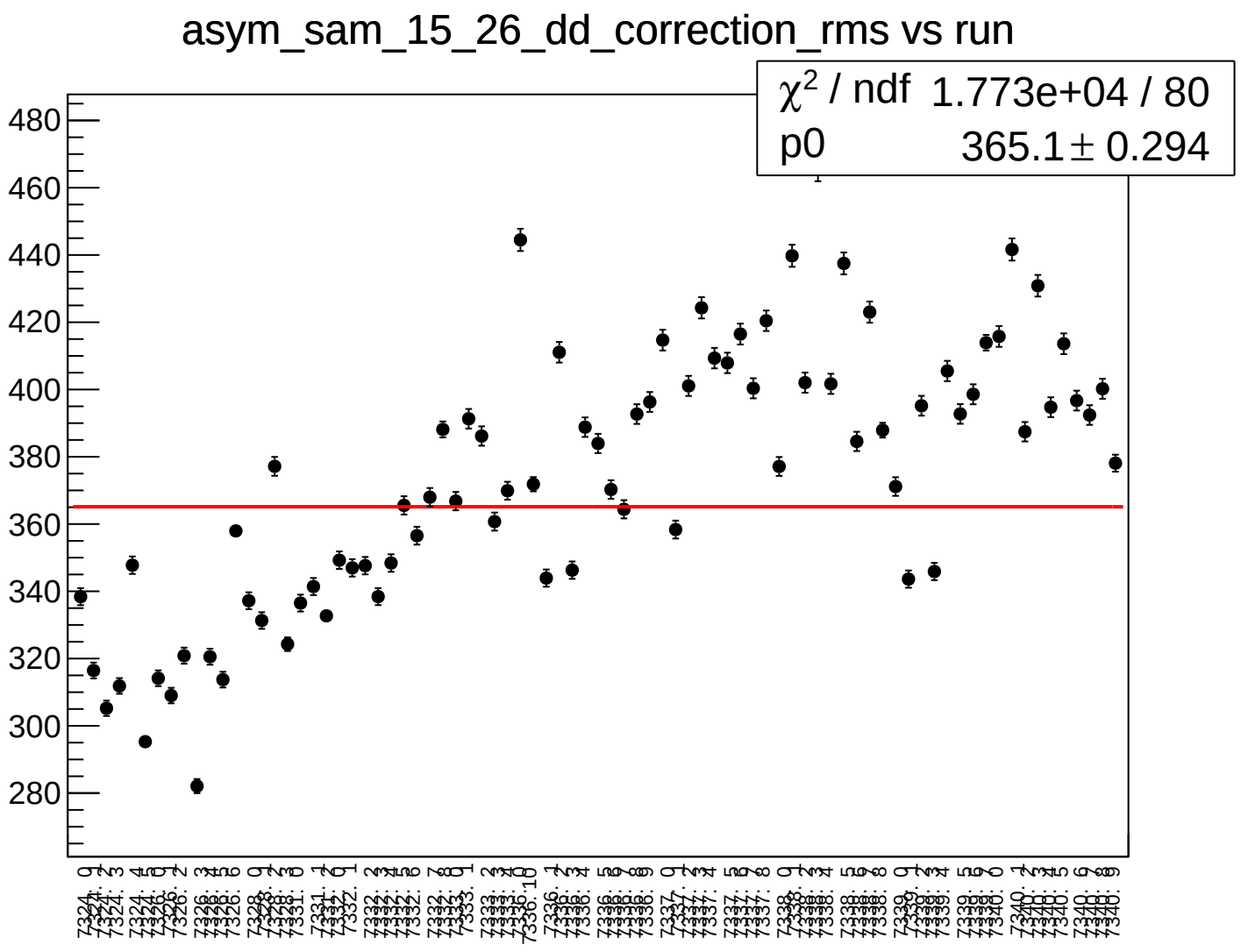

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 83.81 / 80
p0 90.87 ± 61.08
2000
1000
0
−1000
−2000
pull
Entries 81
Mean 259.5
Std Dev 220
3
2
1
0
−1
−2

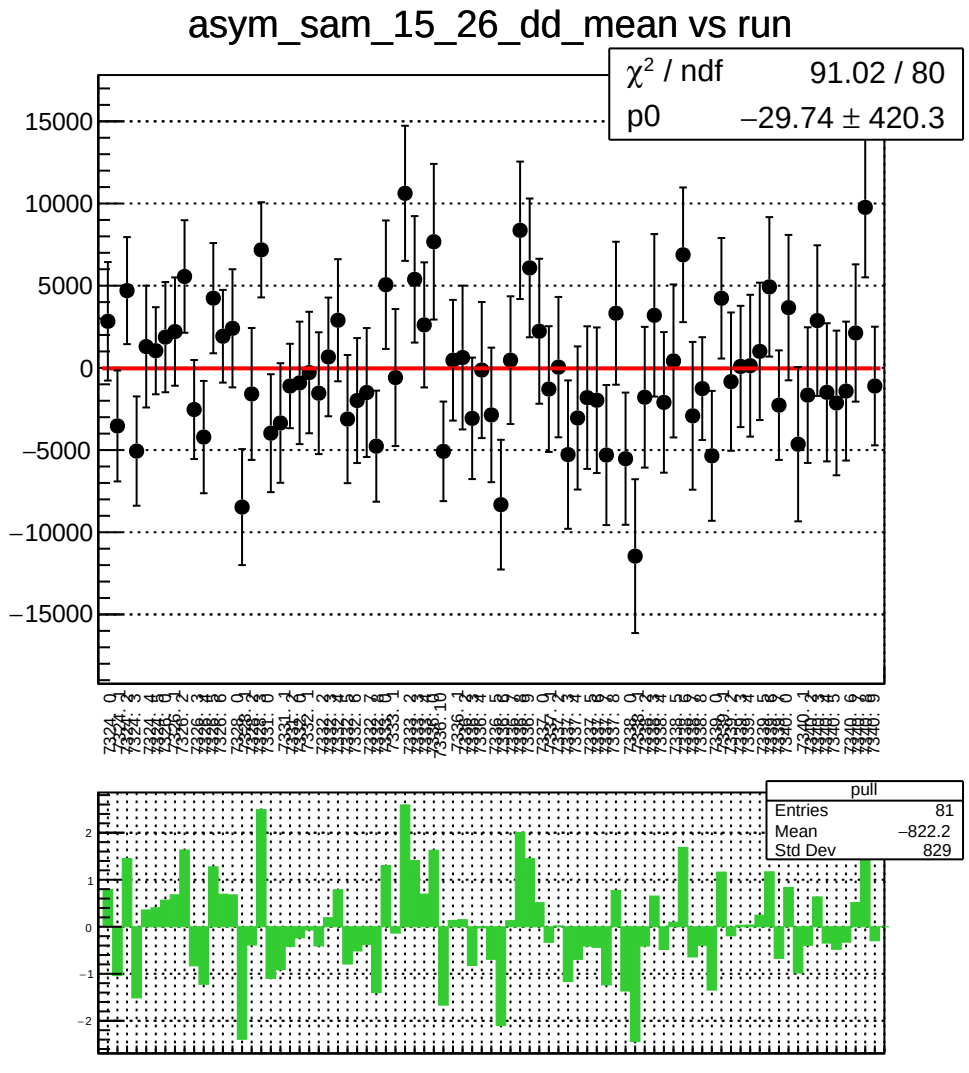

pull1D
Entries 81
Mean −0.01543
Std Dev 1.017
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

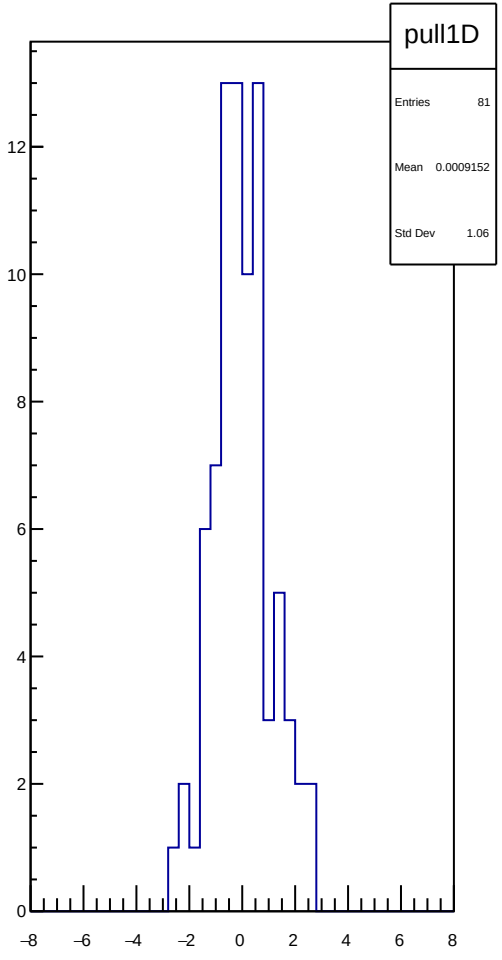

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 6893 / 80
p0 53.82 ± 0.04319
65
60
55
50
45

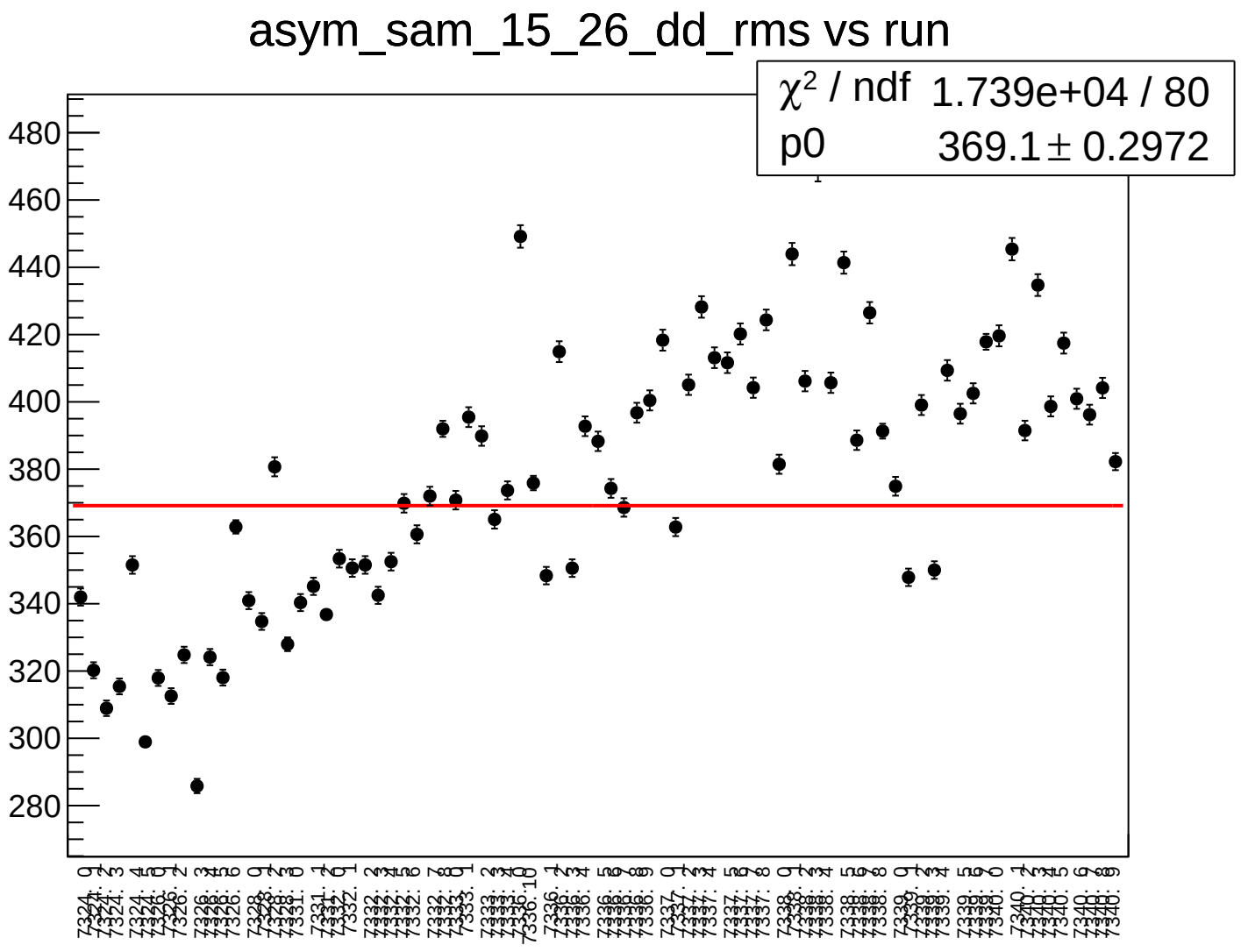

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 94.1 / 80
p0 131.4 ± 415.8
pull
Entries 81
Mean −31.1
Std Dev 82.13

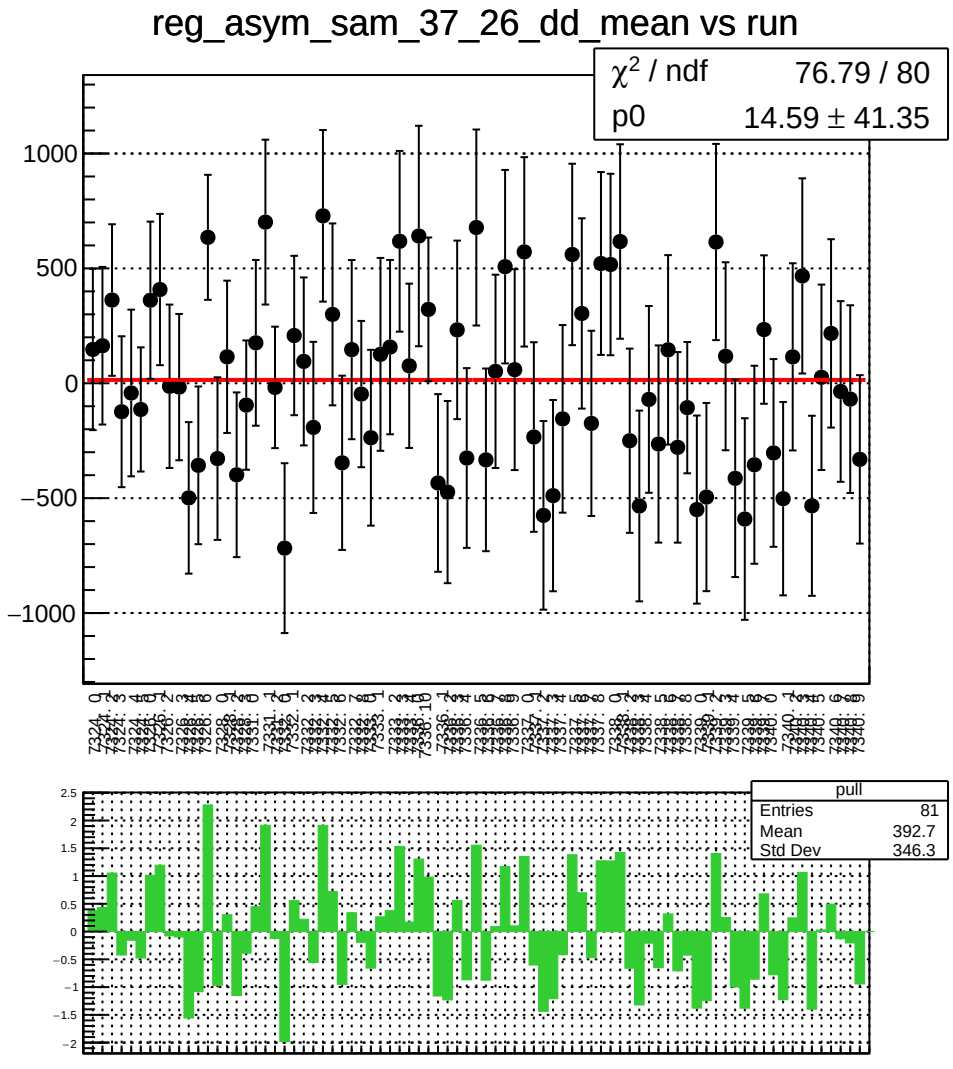

pull1D
Entries 81
Mean −0.004446
Std Dev 1.078

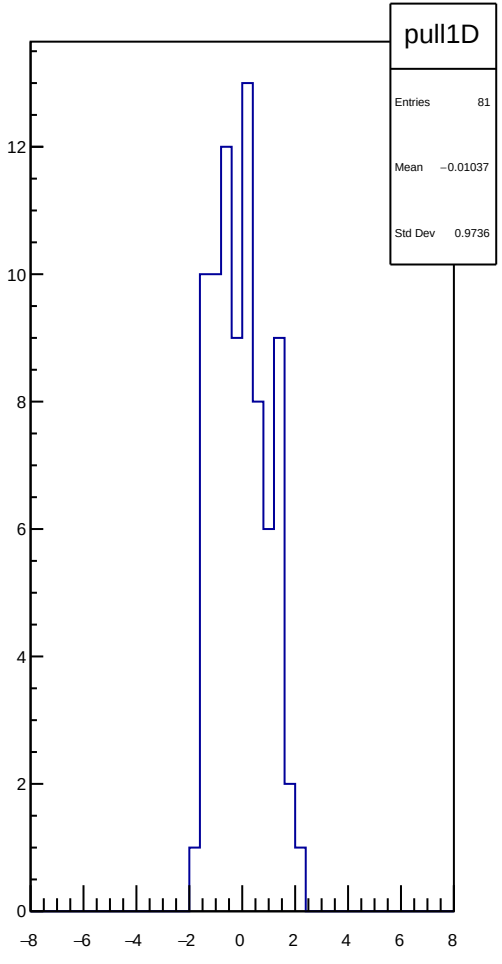

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.773e+04 / 80
p0 365.1 ± 0.294
480
460
440
420
400
380
360
340
320
300
280

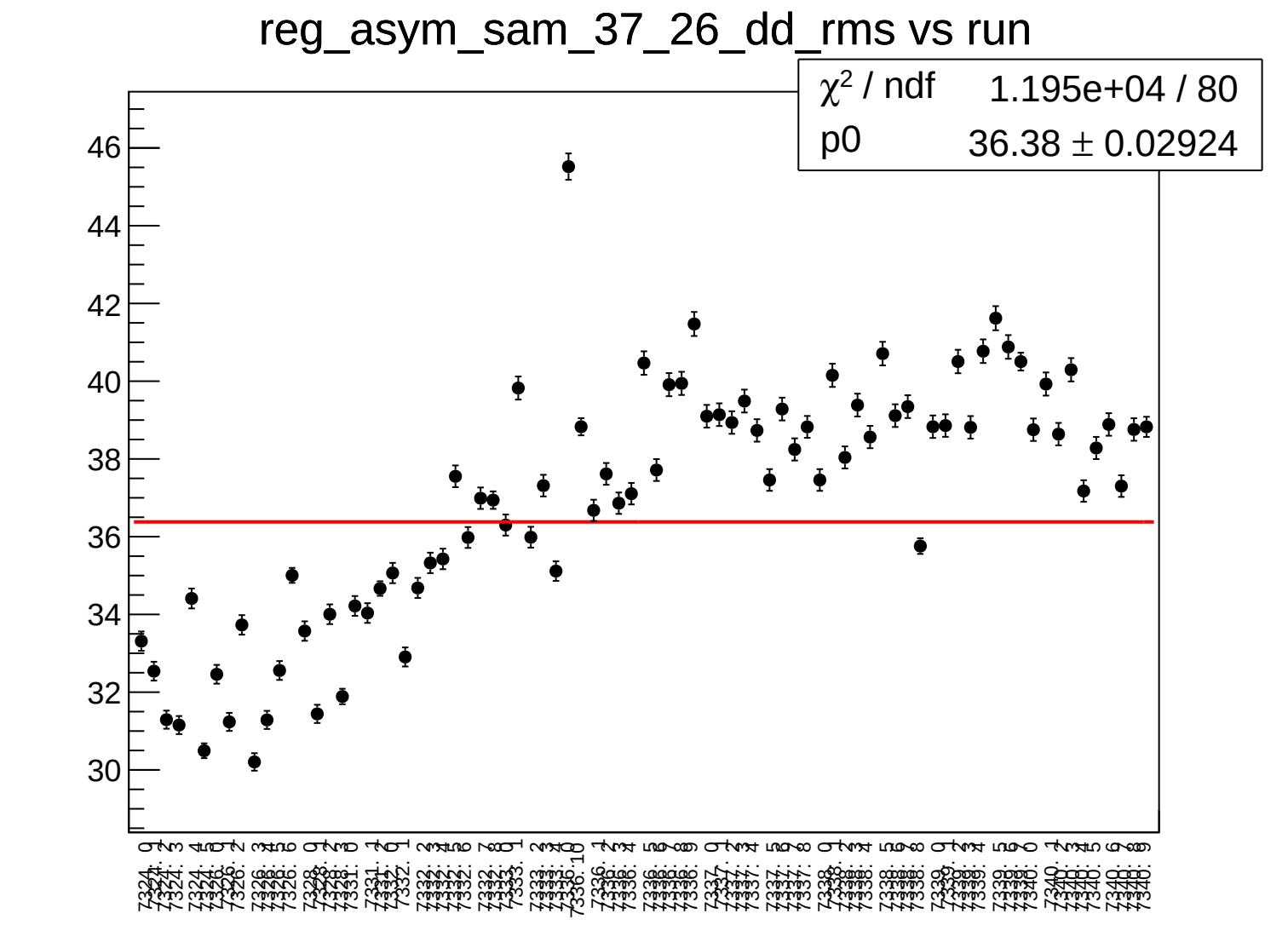

asym_sam_15_26_dd_mean vs run
χ² / ndf 91.02 / 80
p0 −29.74 ± 420.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean −822.2
Std Dev 829
2
1
0
−1
−2

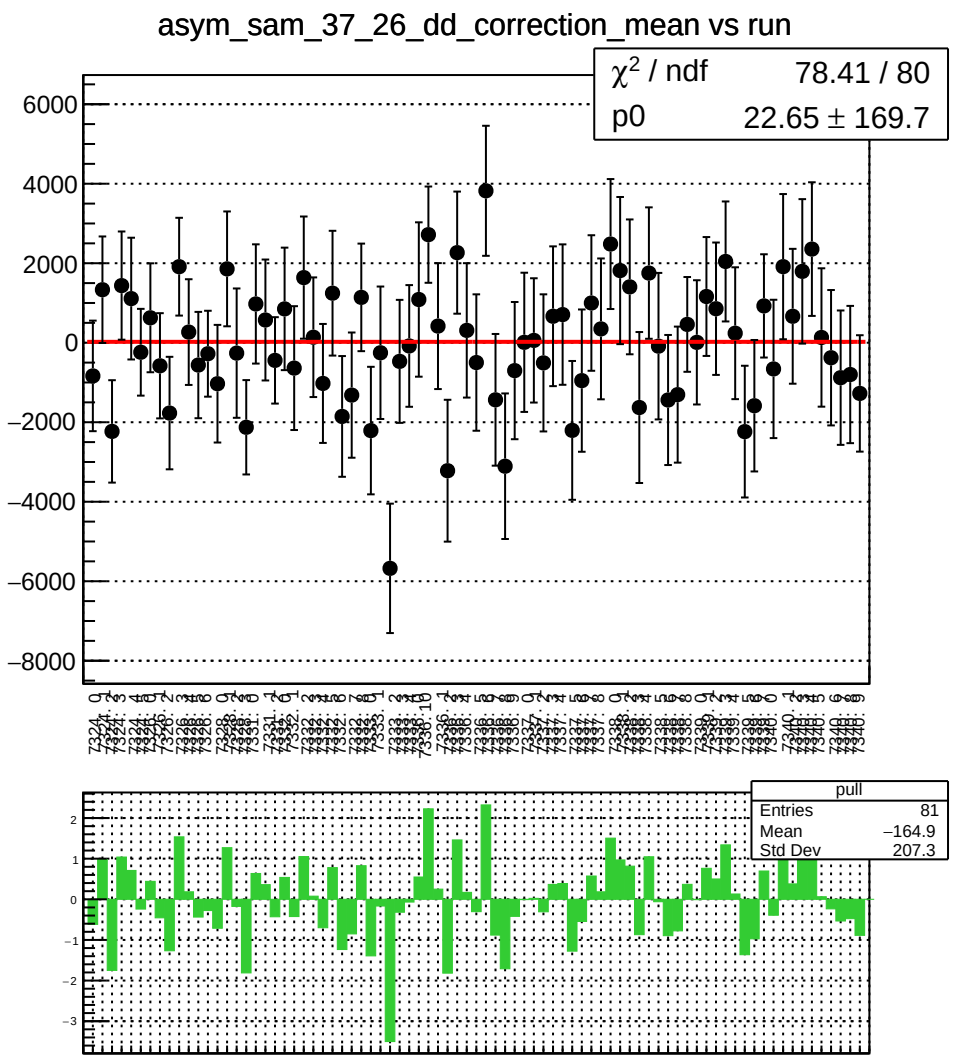

pull1D
Entries 81
Mean 0.0009152
Std Dev 1.06
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

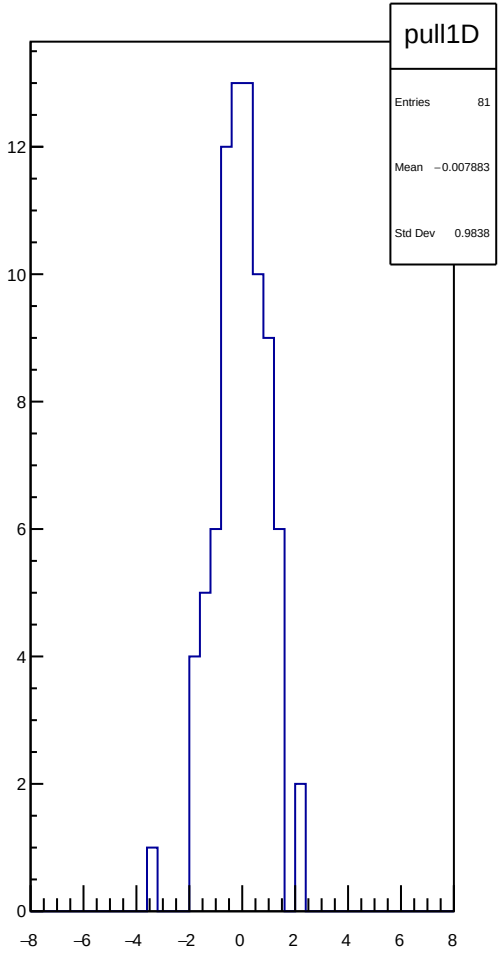

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.739e+04 / 80
p0 369.1 ± 0.2972
480
460
440
420
400
380
360
340
320
300
280

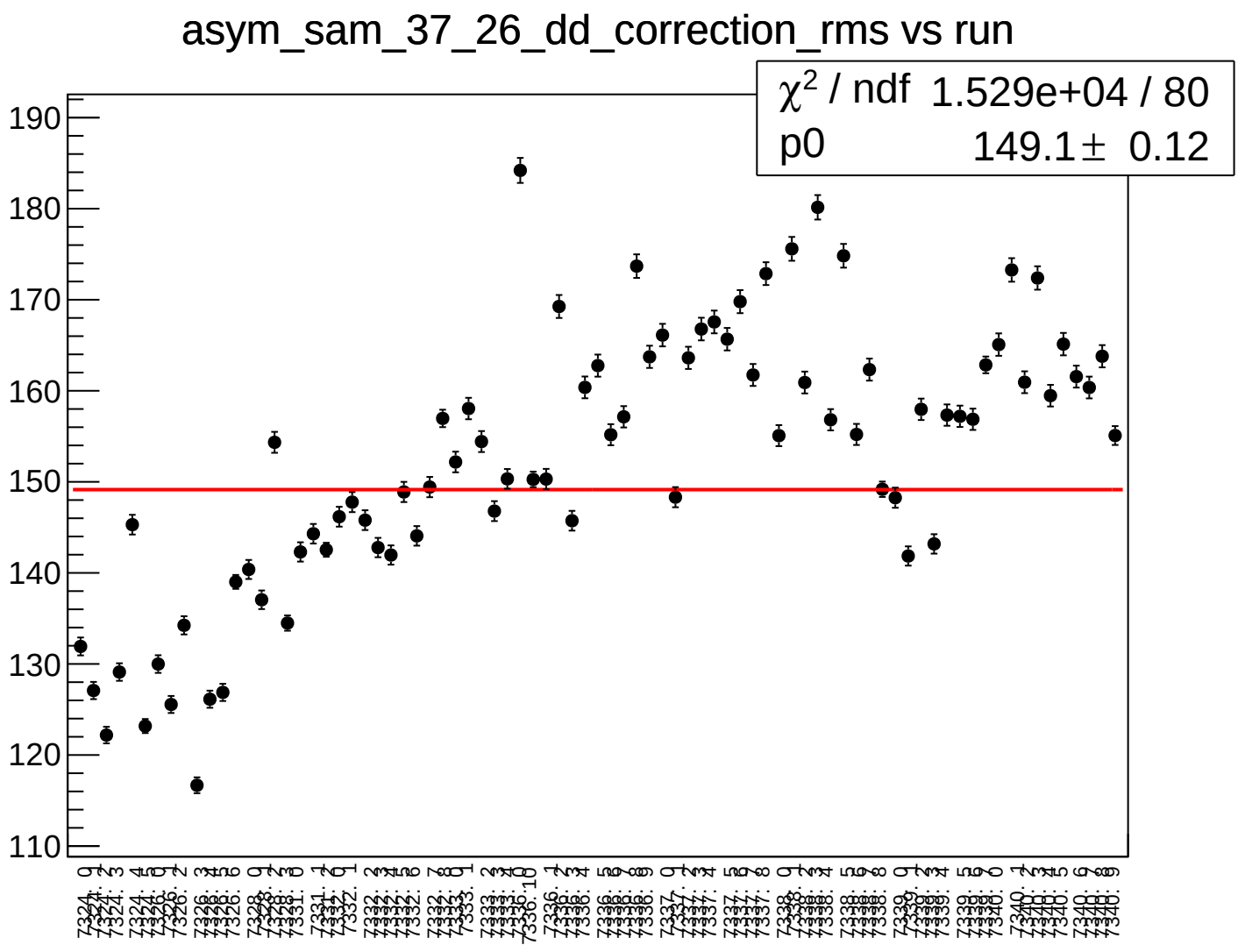

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 76.79 / 80
p0 14.59 ± 41.35
1000
500
0
−500
−1000
pull
Entries 81
Mean 392.7
Std Dev 346.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

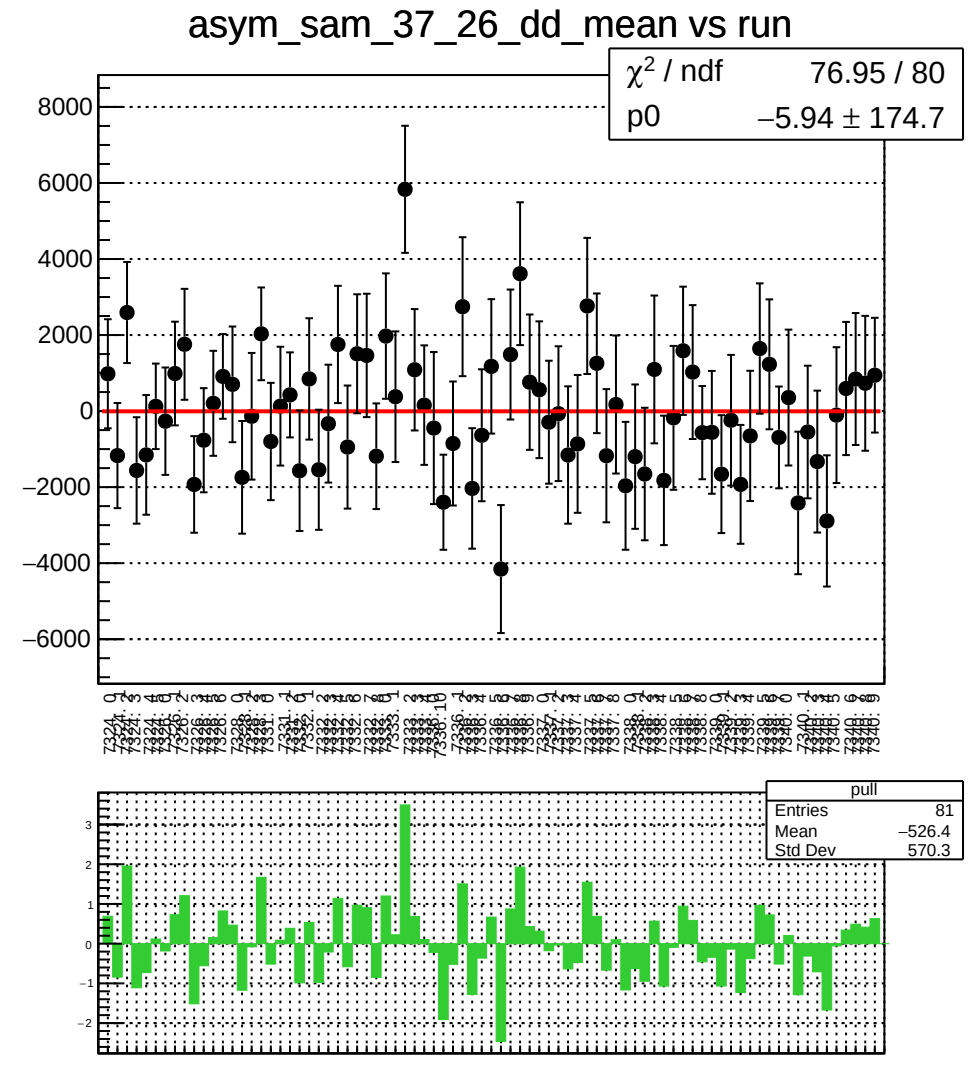

pull1D
Entries 81
Mean −0.01037
Std Dev 0.9736
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

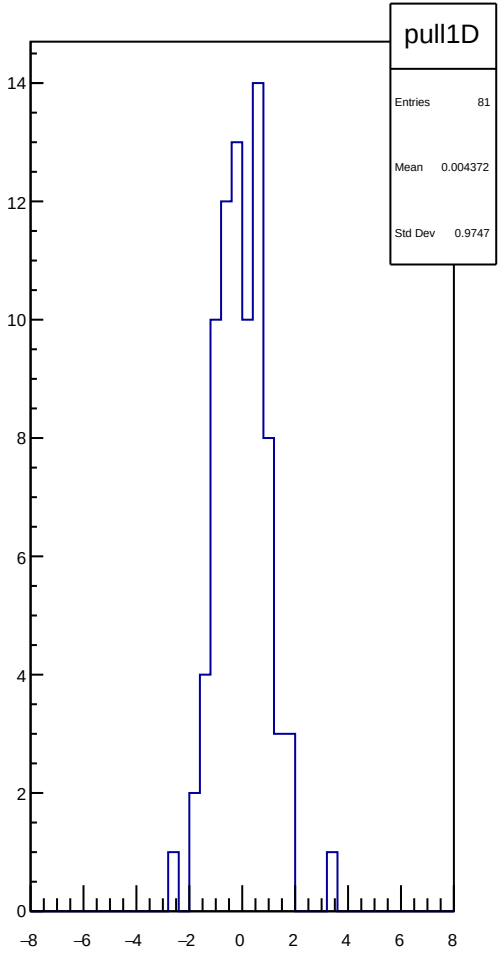

reg_asym_sam_37_26_dd_rms vs run
χ² / ndf 1.195e+04 / 80
p0 36.38 ± 0.02924
46
44
42
40
38
36
34
32
30

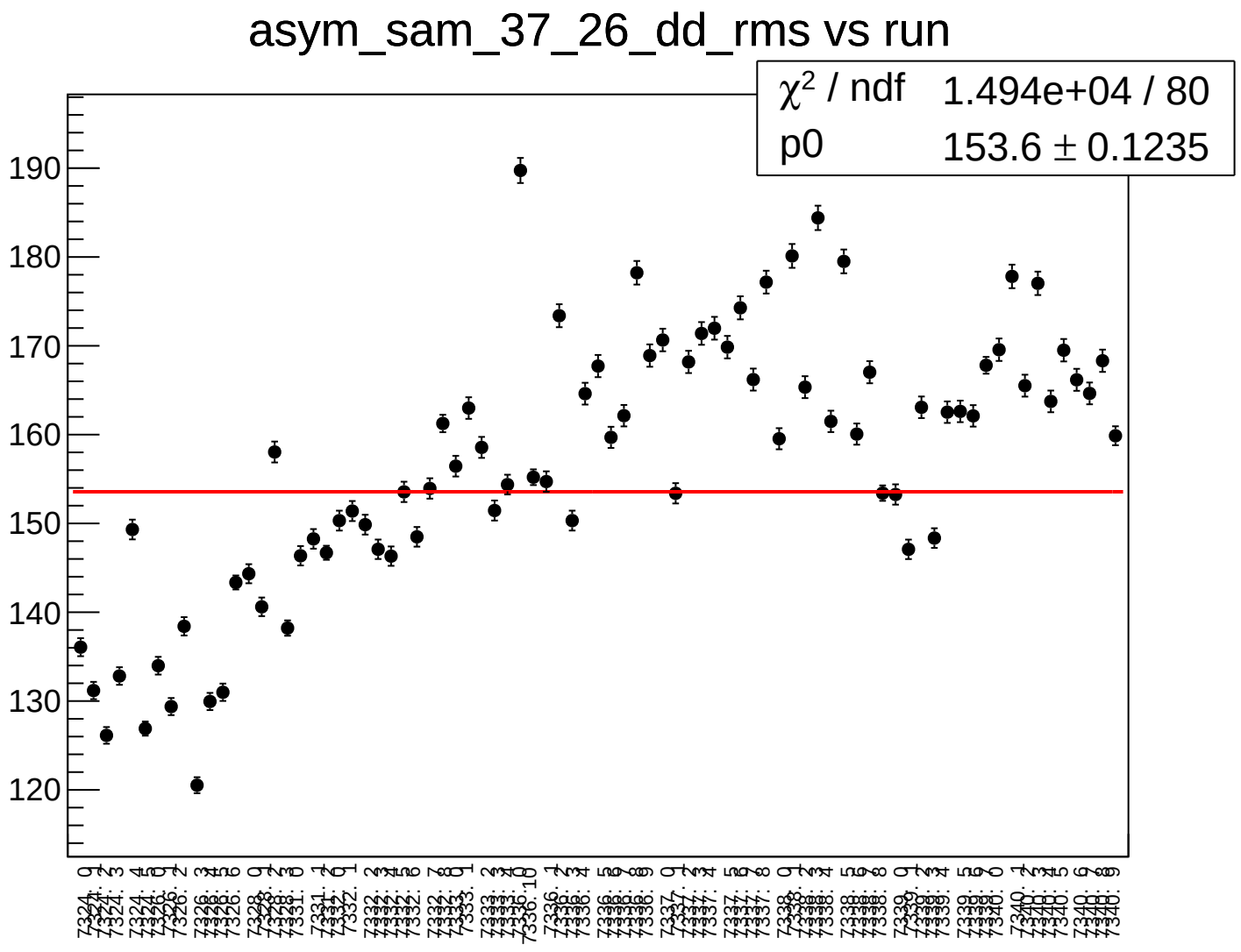

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 78.41 / 80
p0 22.65 ± 169.7
pull
Entries 81
Mean −164.9
Std Dev 207.3

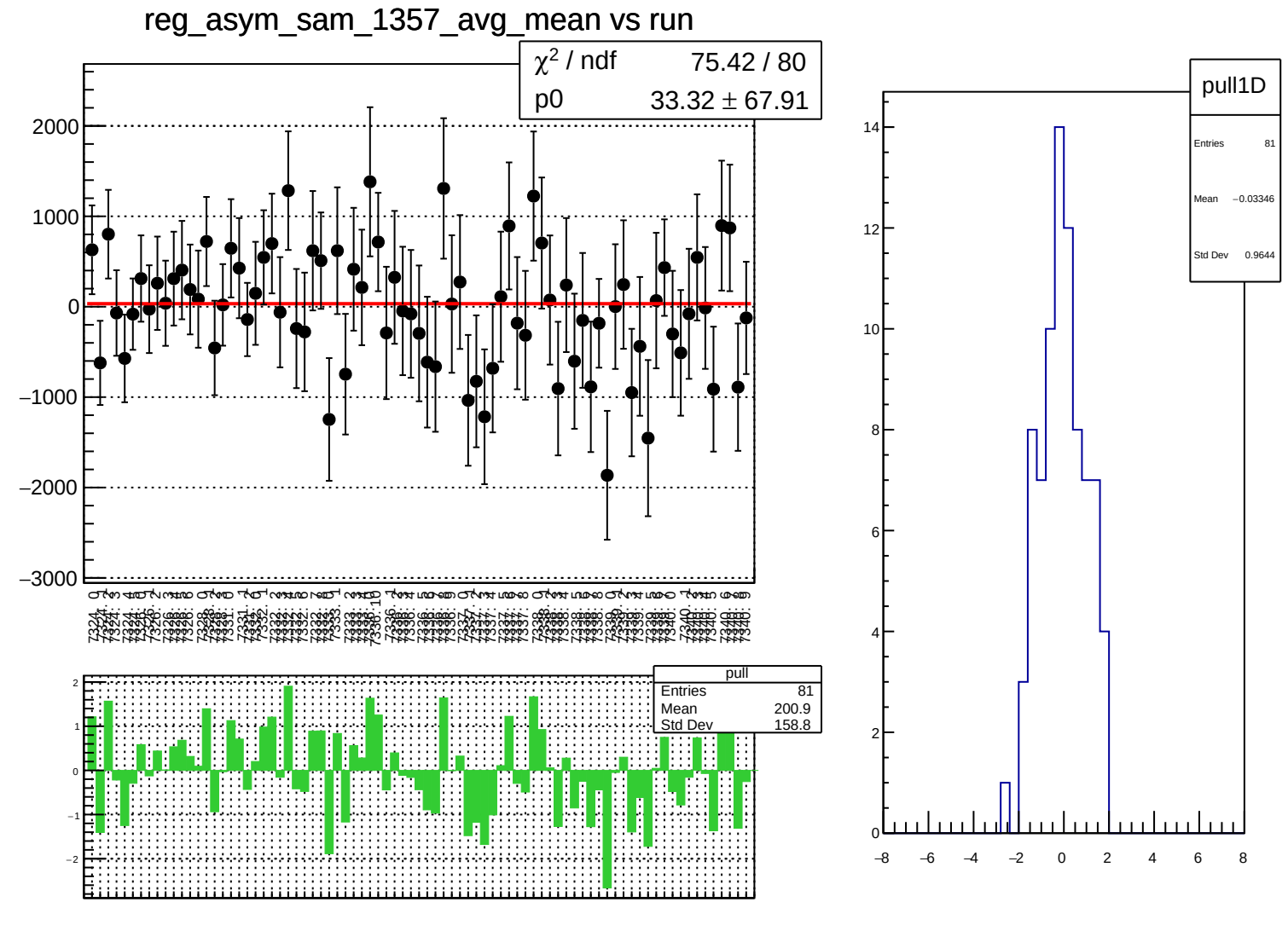

pull1D
Entries 81
Mean −0.007883
Std Dev 0.9838

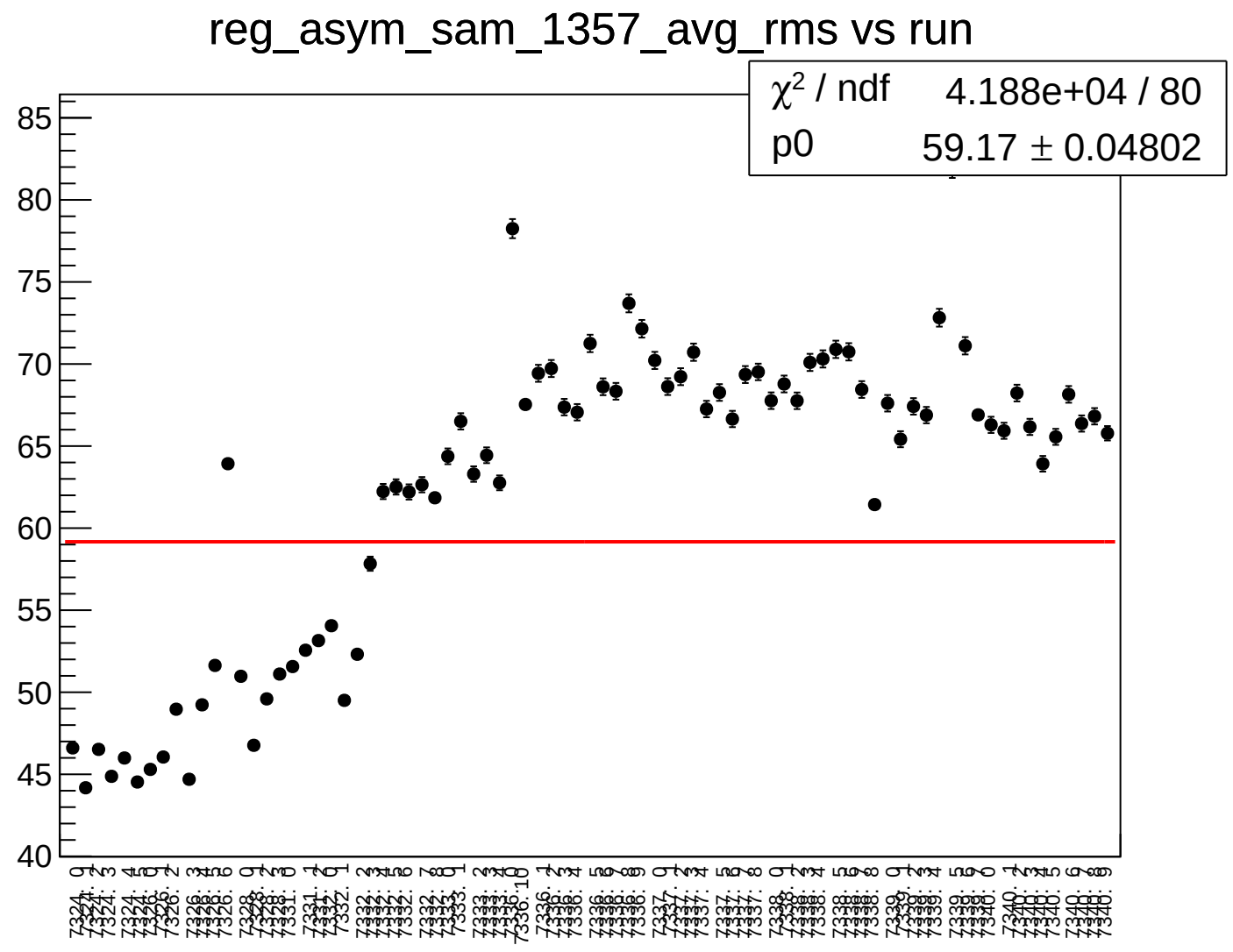

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 1.529e+04 / 80
p0 149.1 ± 0.12
190
180
170
160
150
140
130
120
110

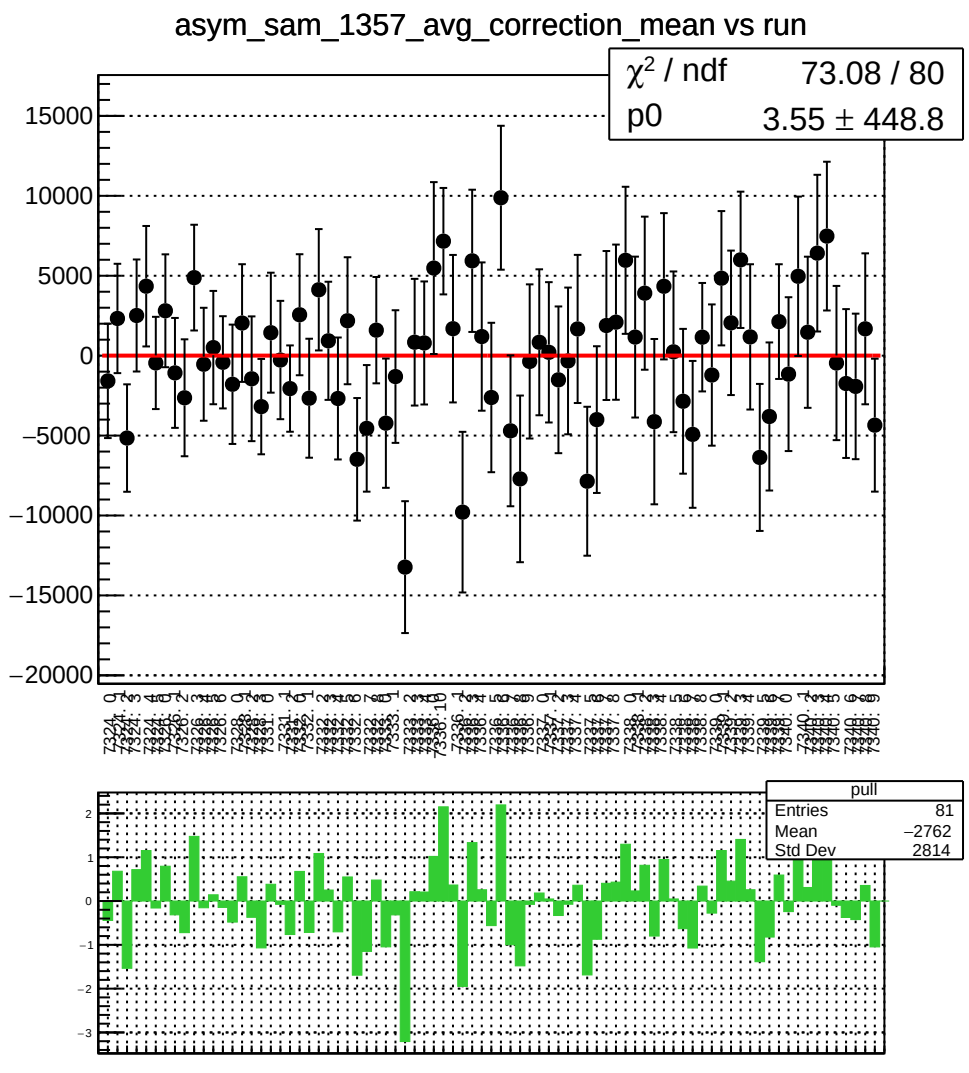

asym_sam_37_26_dd_mean vs run
χ² / ndf 76.95 / 80
p0 −5.94 ± 174.7
pull
Entries 81
Mean −526.4
Std Dev 570.3

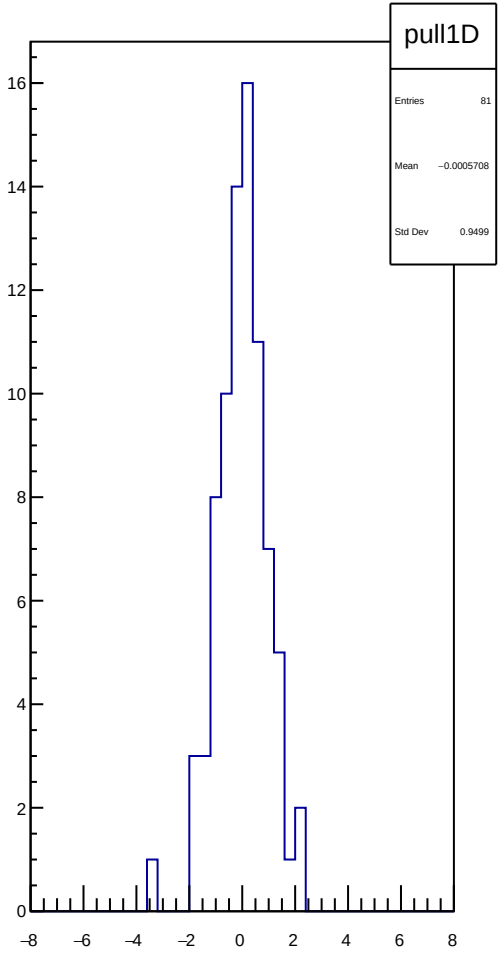

pull1D
Entries 81
Mean 0.004372
Std Dev 0.9747

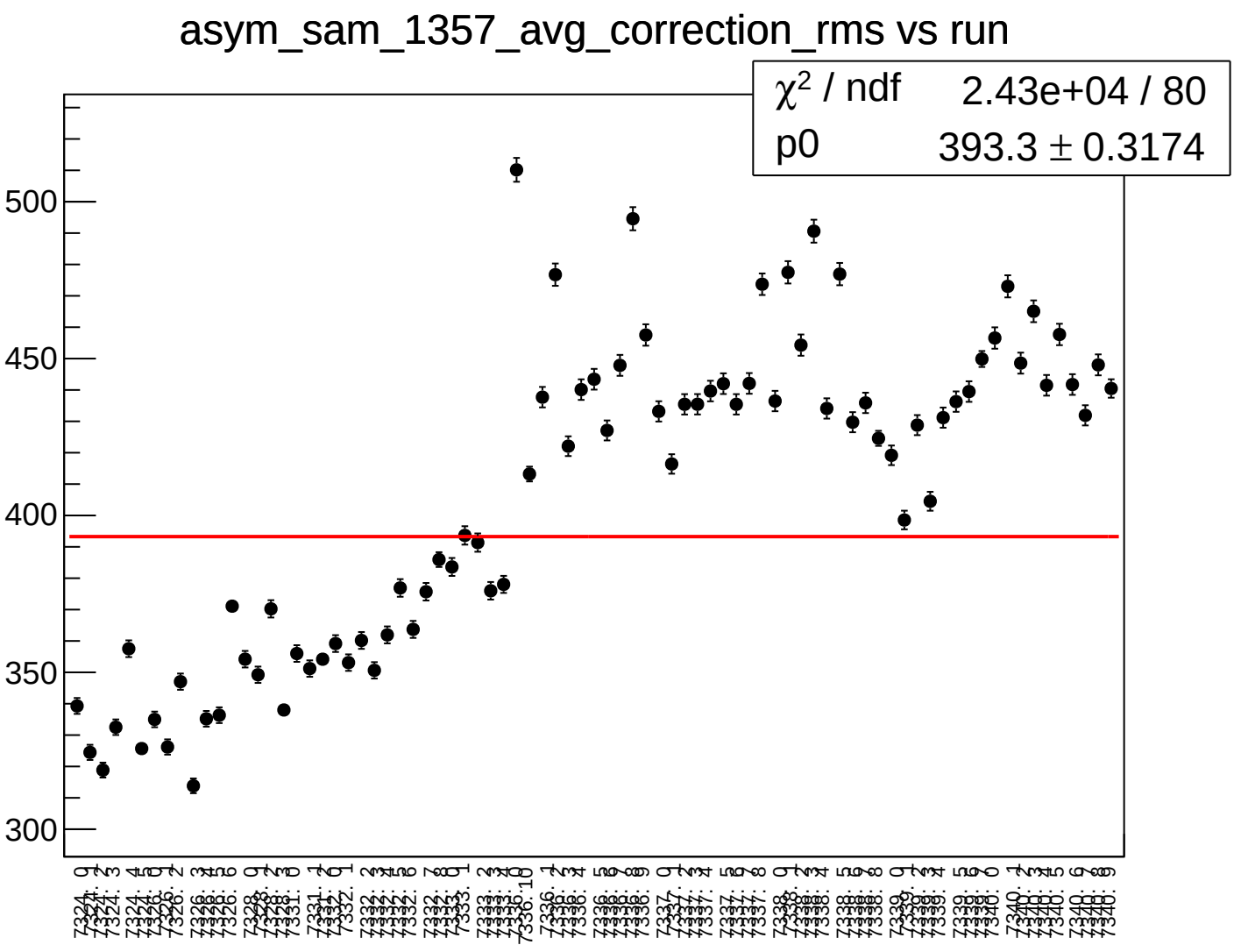

asym_sam_37_26_dd_rms vs run
χ² / ndf 1.494e+04 / 80
p0 153.6 ± 0.1235
190
180
170
160
150
140
130
120

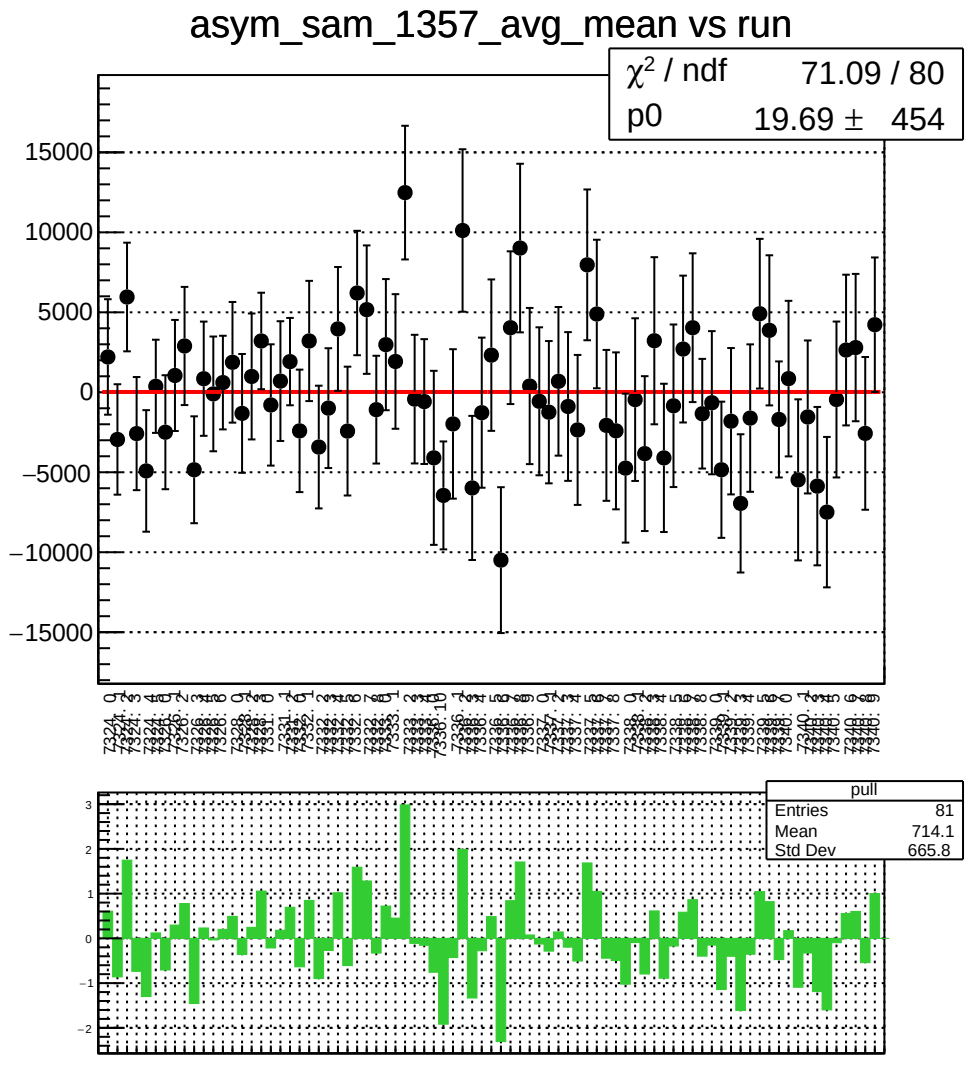

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 75.42 / 80
p0 33.32 ± 67.91
pull
Entries 81
Mean 200.9
Std Dev 158.8
pull1D
Entries 81
Mean −0.03346
Std Dev 0.9644

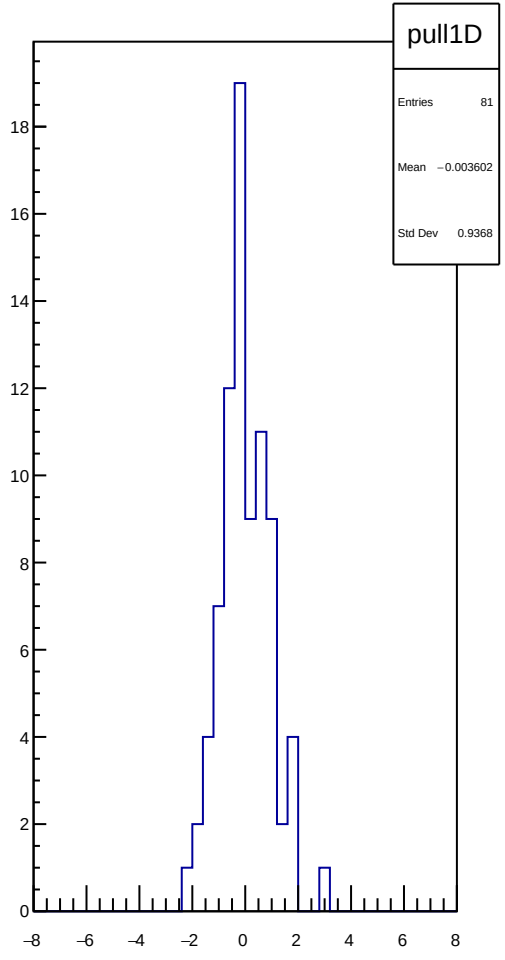

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 4.188e+04 / 80
p0 59.17 ± 0.04802
85
80
75
70
65
60
55
50
45
40

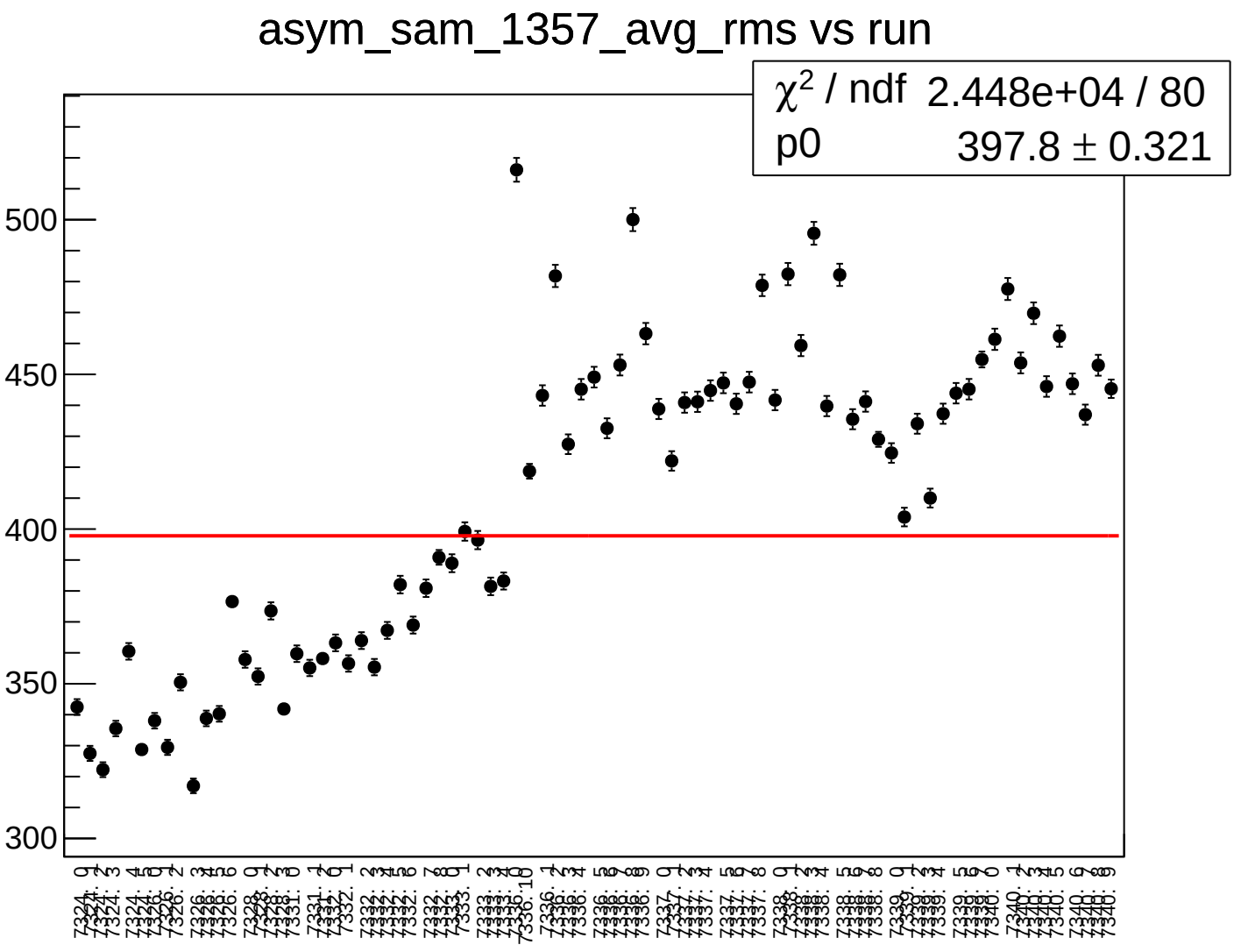

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 73.08 / 80
p0 3.55 ± 448.8
pull
Entries 81
Mean −2762
Std Dev 2814

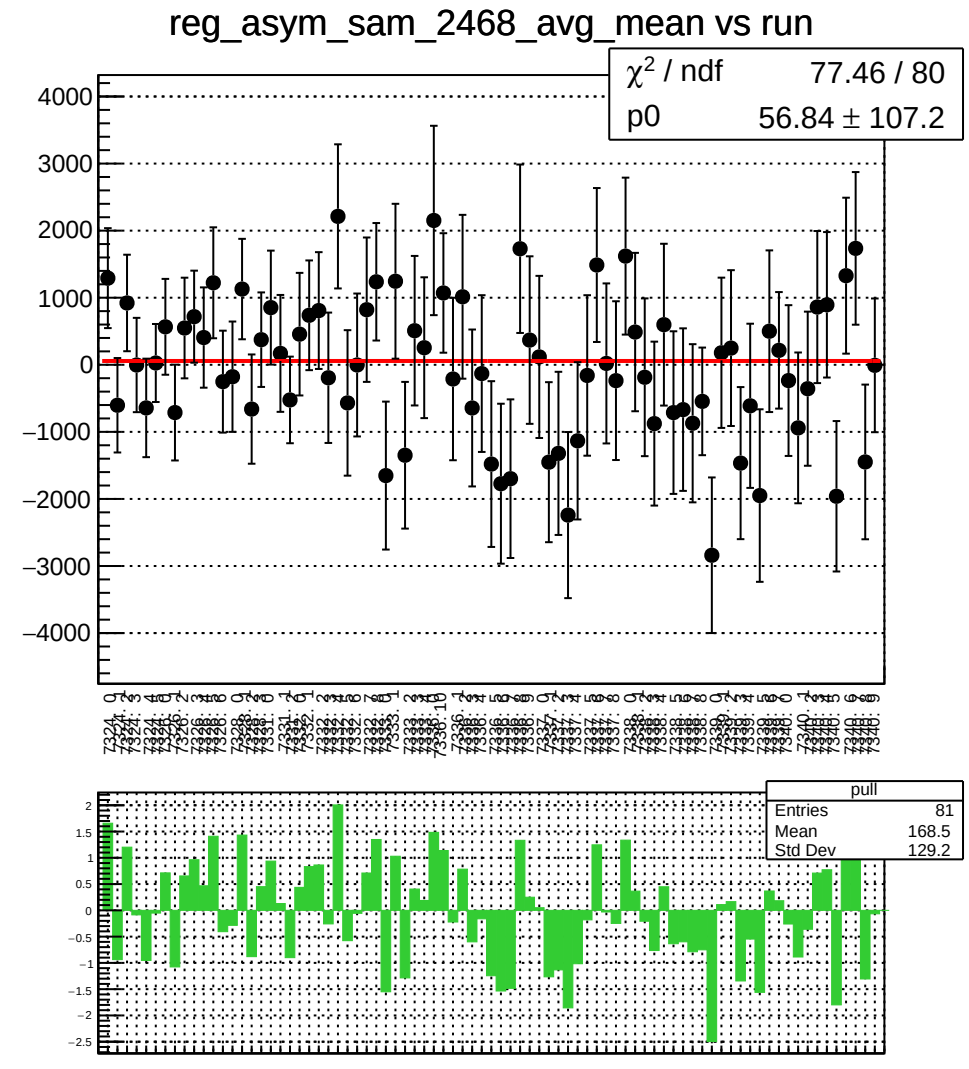

pull1D
Entries 81
Mean −0.0005708
Std Dev 0.9499

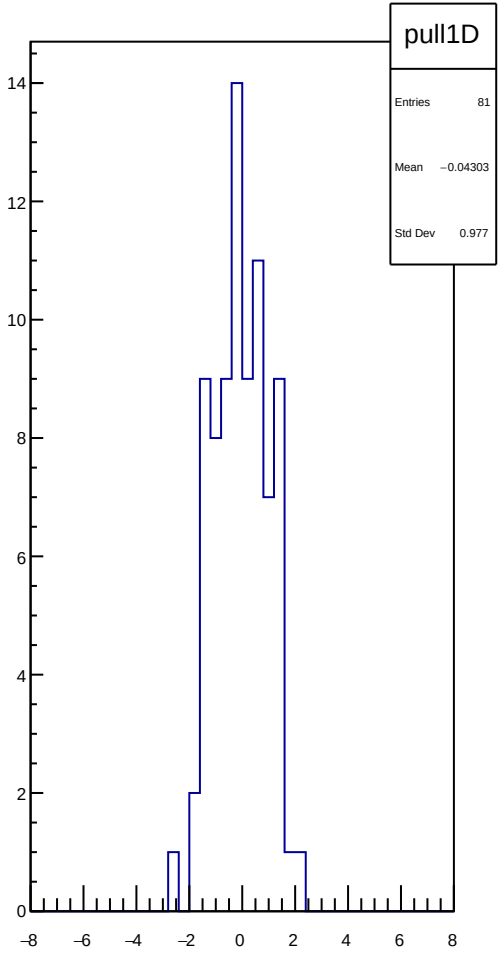

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 2.43e+04 / 80
p0 393.3 ± 0.3174
500
450
400
350
300

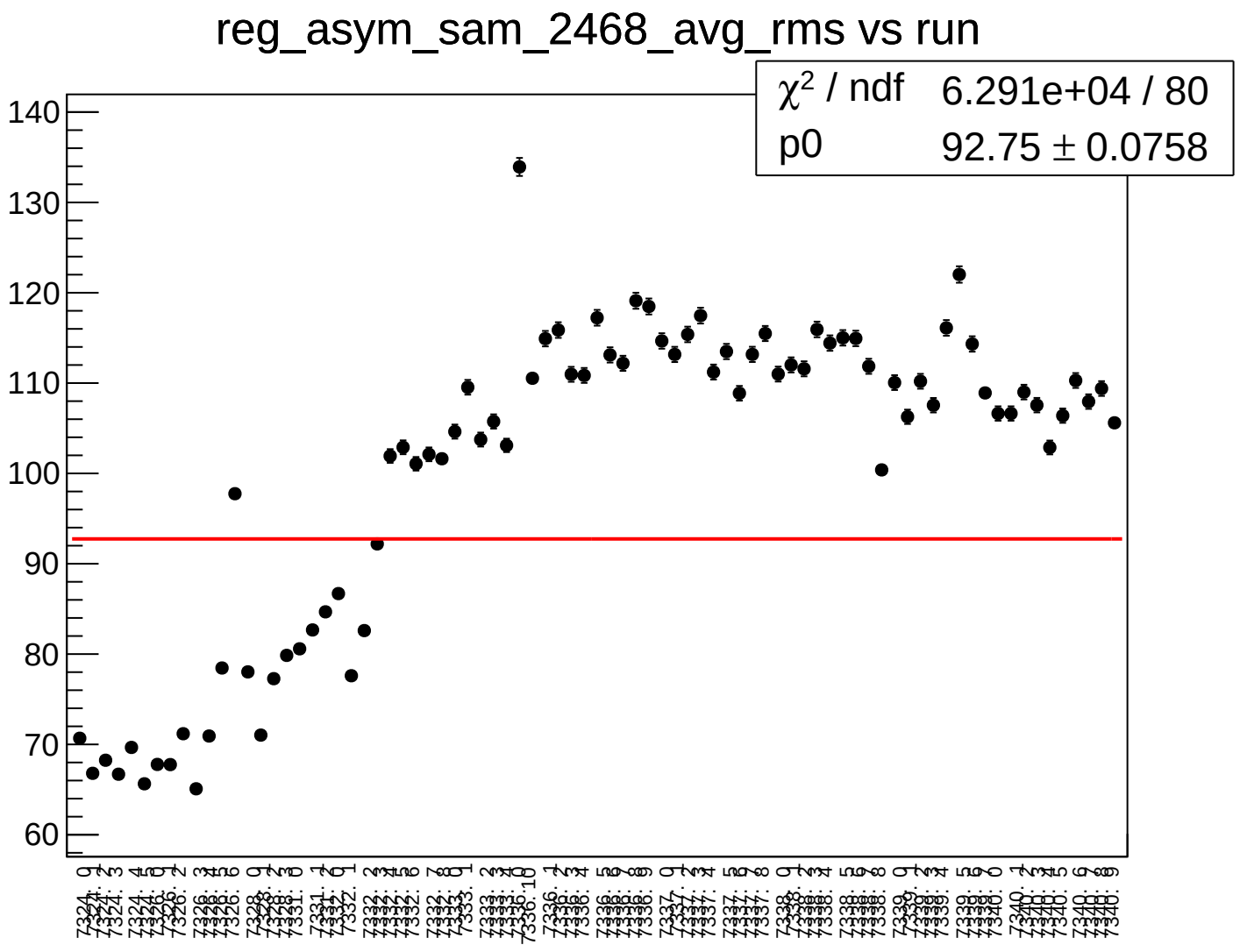

asym_sam_1357_avg_mean vs run
χ² / ndf 71.09 / 80
p0 19.69 ± 454
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 714.1
Std Dev 665.8
3
2
1
0
−1
−2

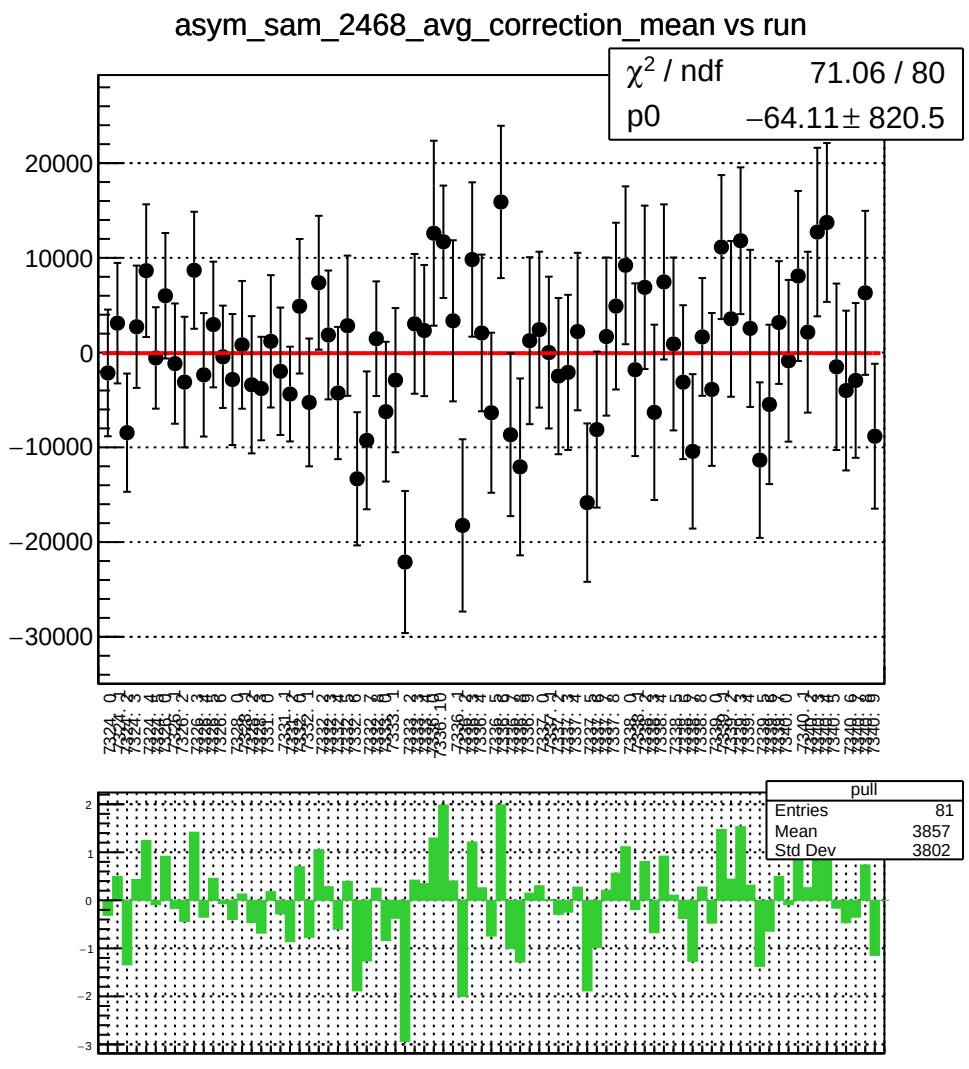

pull1D
Entries 81
Mean −0.003602
Std Dev 0.9368
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

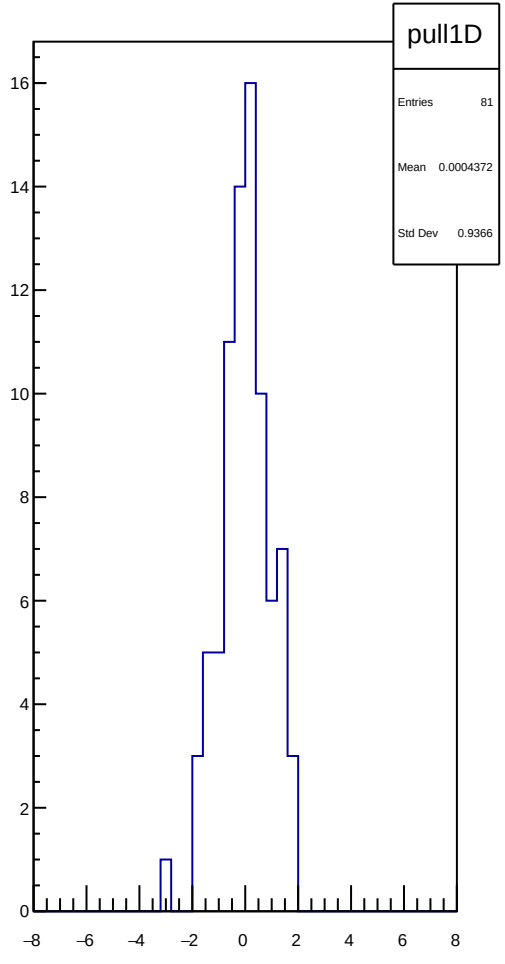

asym_sam_1357_avg_rms vs run
χ² / ndf 2.448e+04 / 80
p0 397.8 ± 0.321
500
450
400
350
300

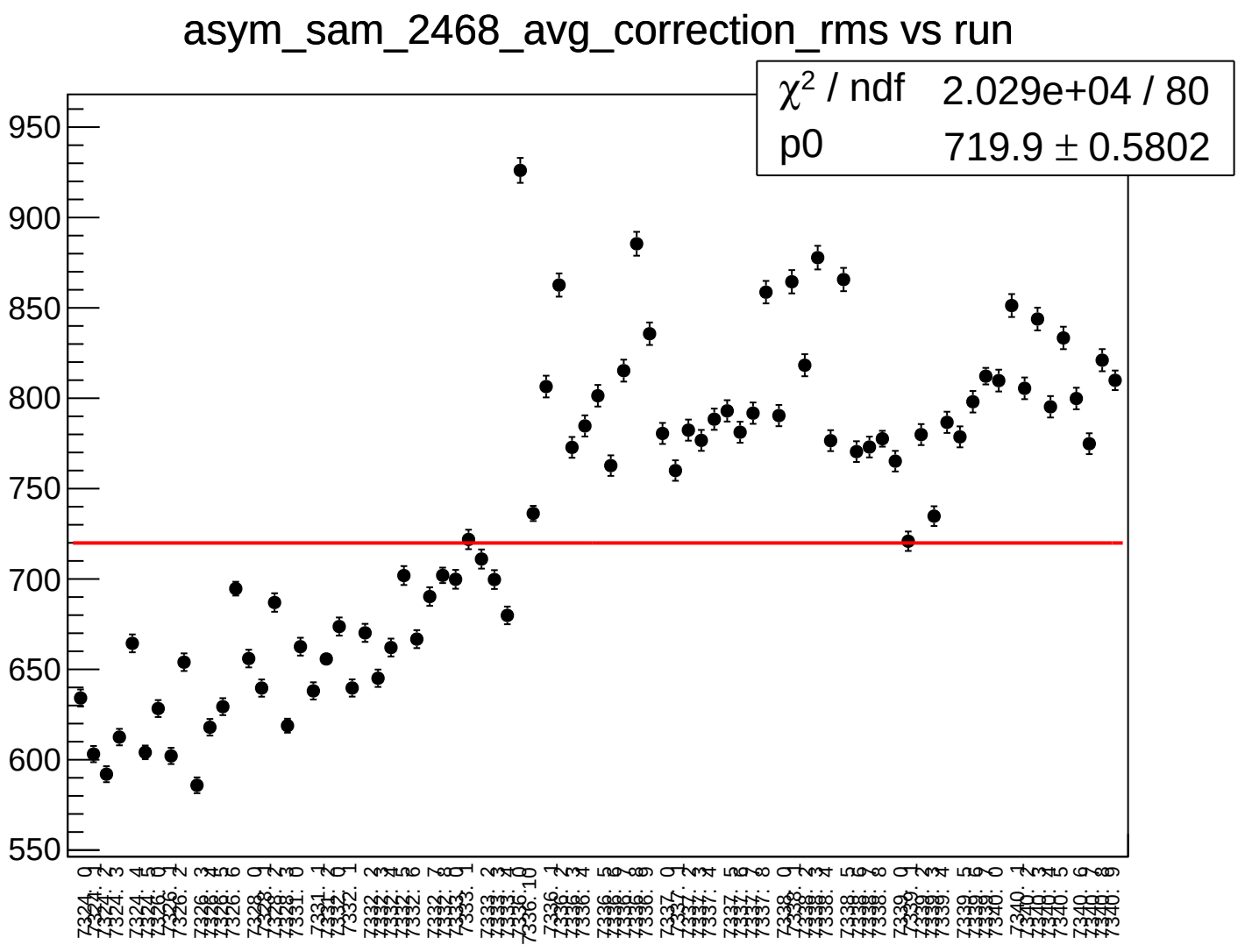

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 77.46 / 80
p0 56.84 ± 107.2
pull
Entries 81
Mean 168.5
Std Dev 129.2

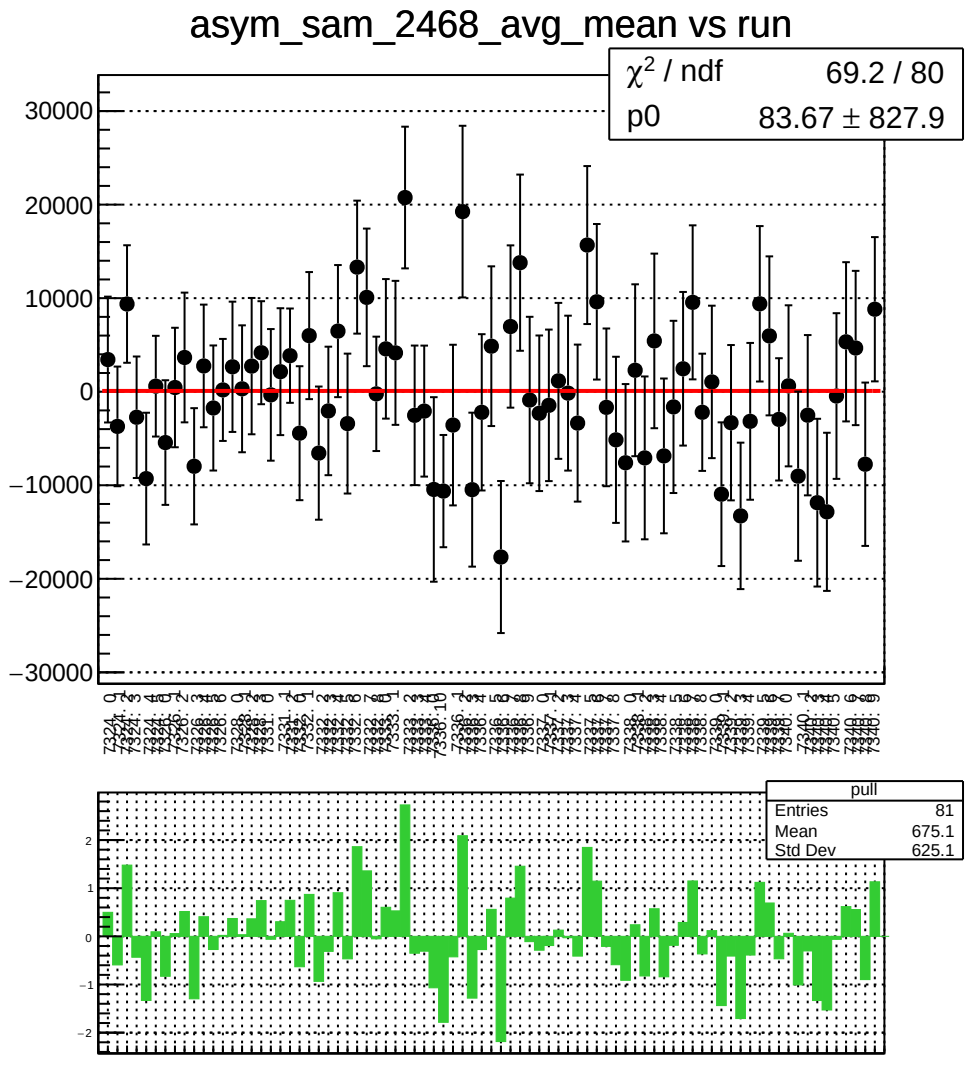

pull1D
Entries 81
Mean −0.04303
Std Dev 0.977

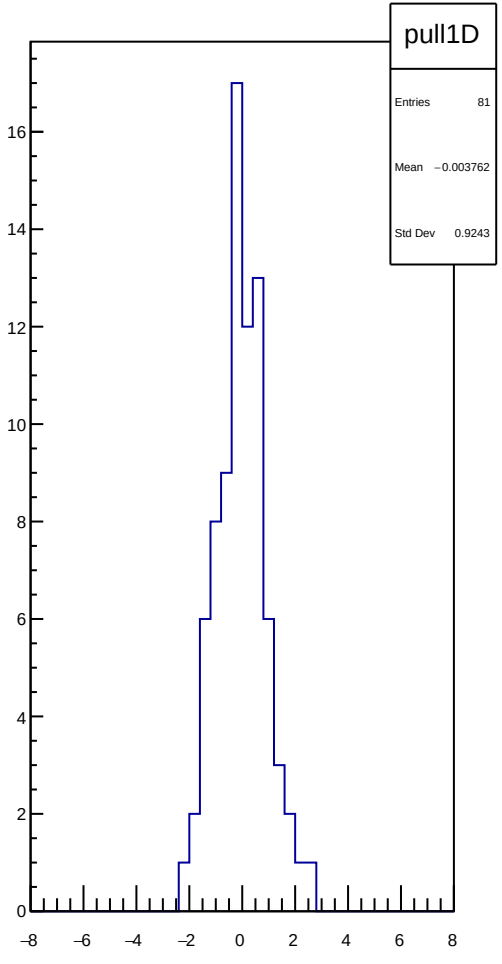

reg_asym_sam_2468_avg_rms vs run
χ² / ndf 6.291e+04 / 80
p0 92.75 ± 0.0758
140
130
120
110
100
90
80
70
60

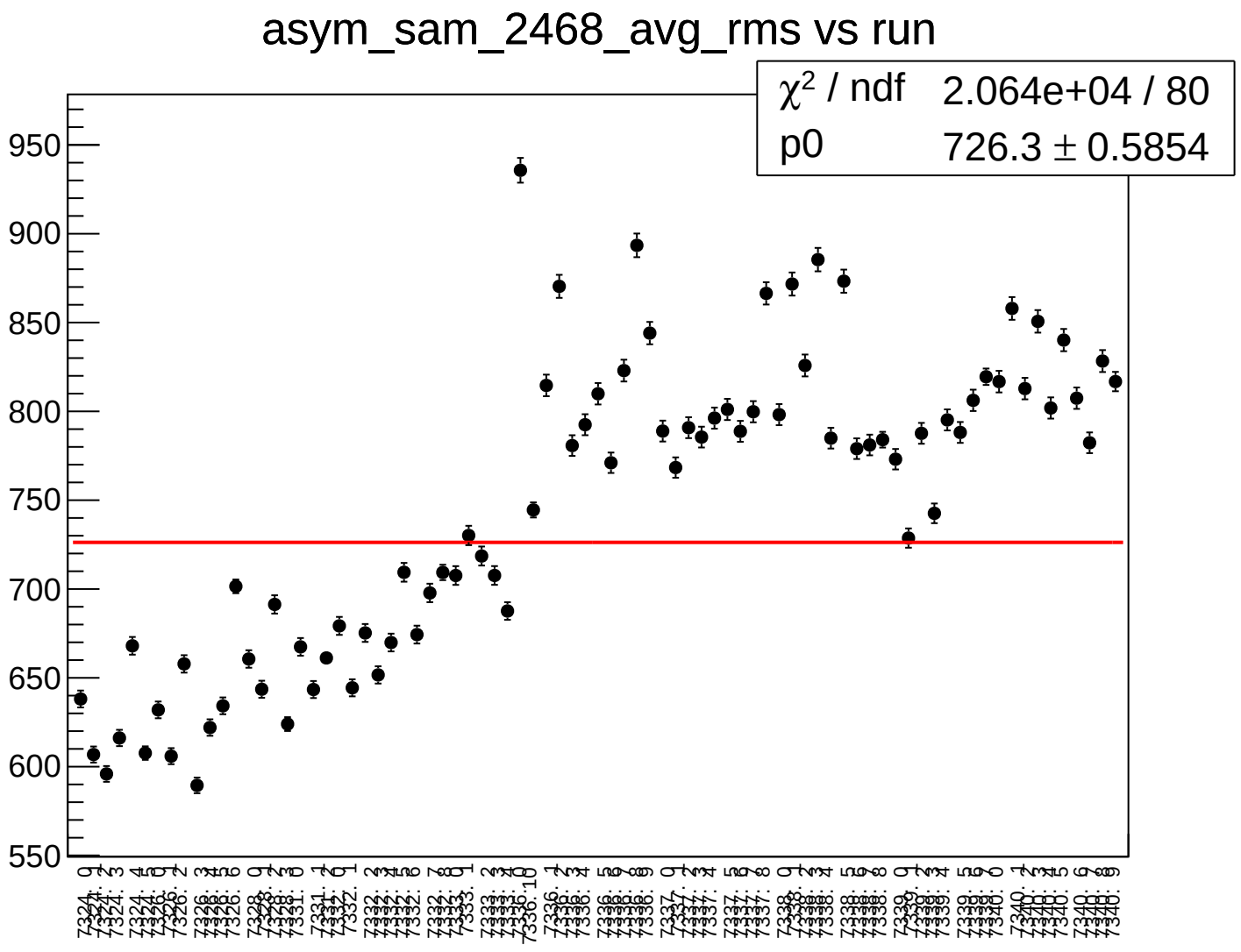

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 71.06 / 80
p0 −64.11 ± 820.5
20000
10000
0
−10000
−20000
−30000
pull
Entries 81
Mean 3857
Std Dev 3802
2
1
0
−1
−2
−3

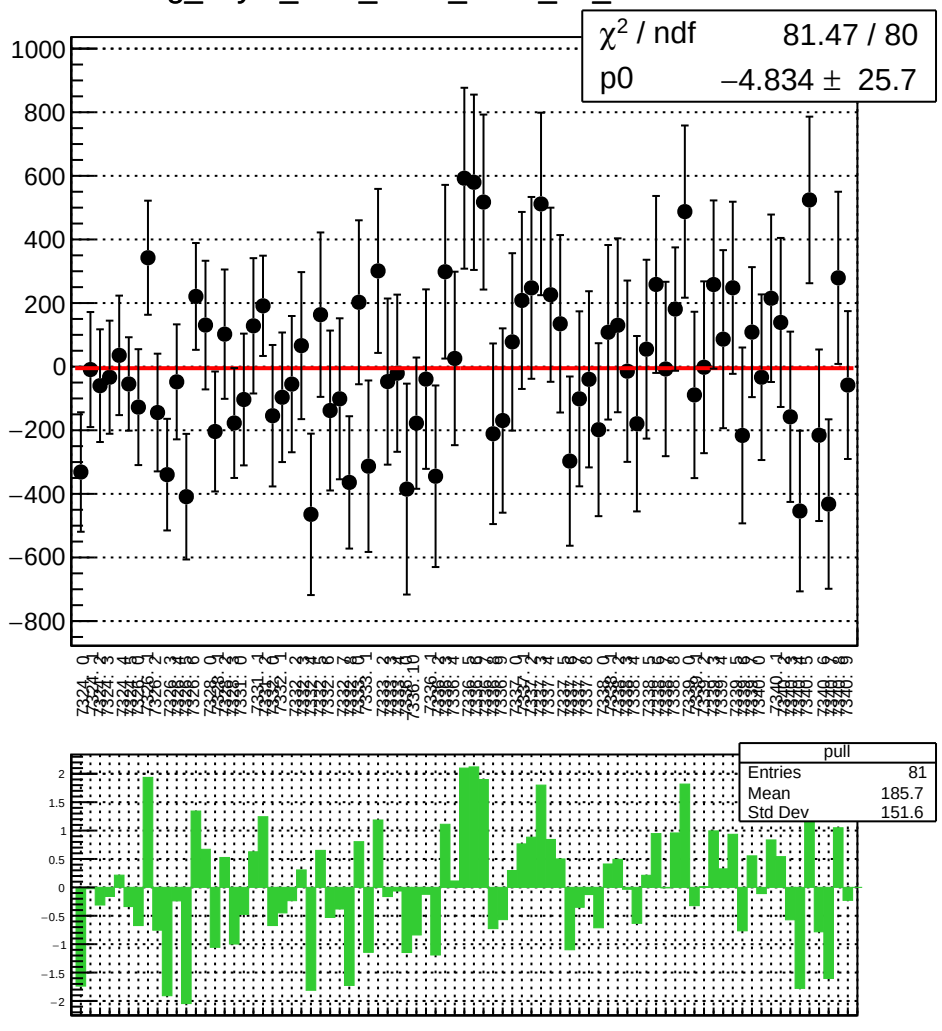

pull1D
Entries 81
Mean 0.0004372
Std Dev 0.9366
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

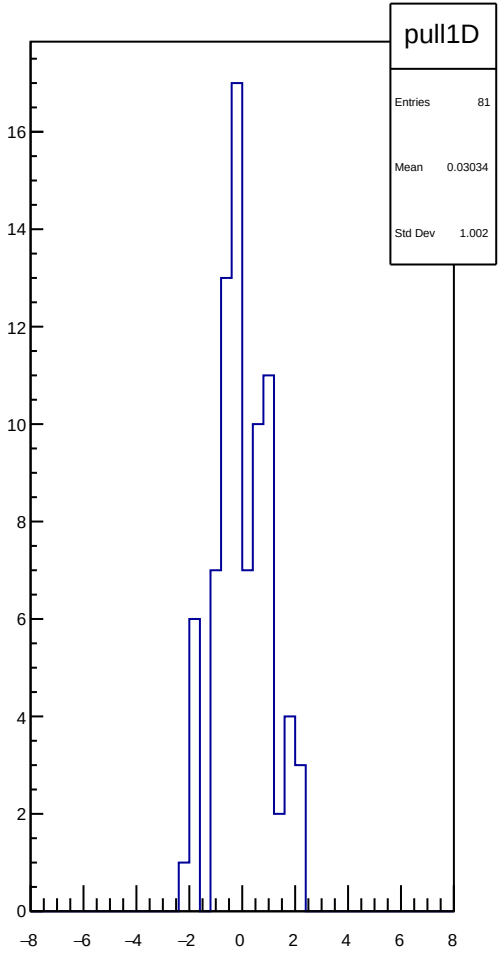

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 2.029e+04 / 80
p0 719.9 ± 0.5802
950
900
850
800
750
700
650
600
550

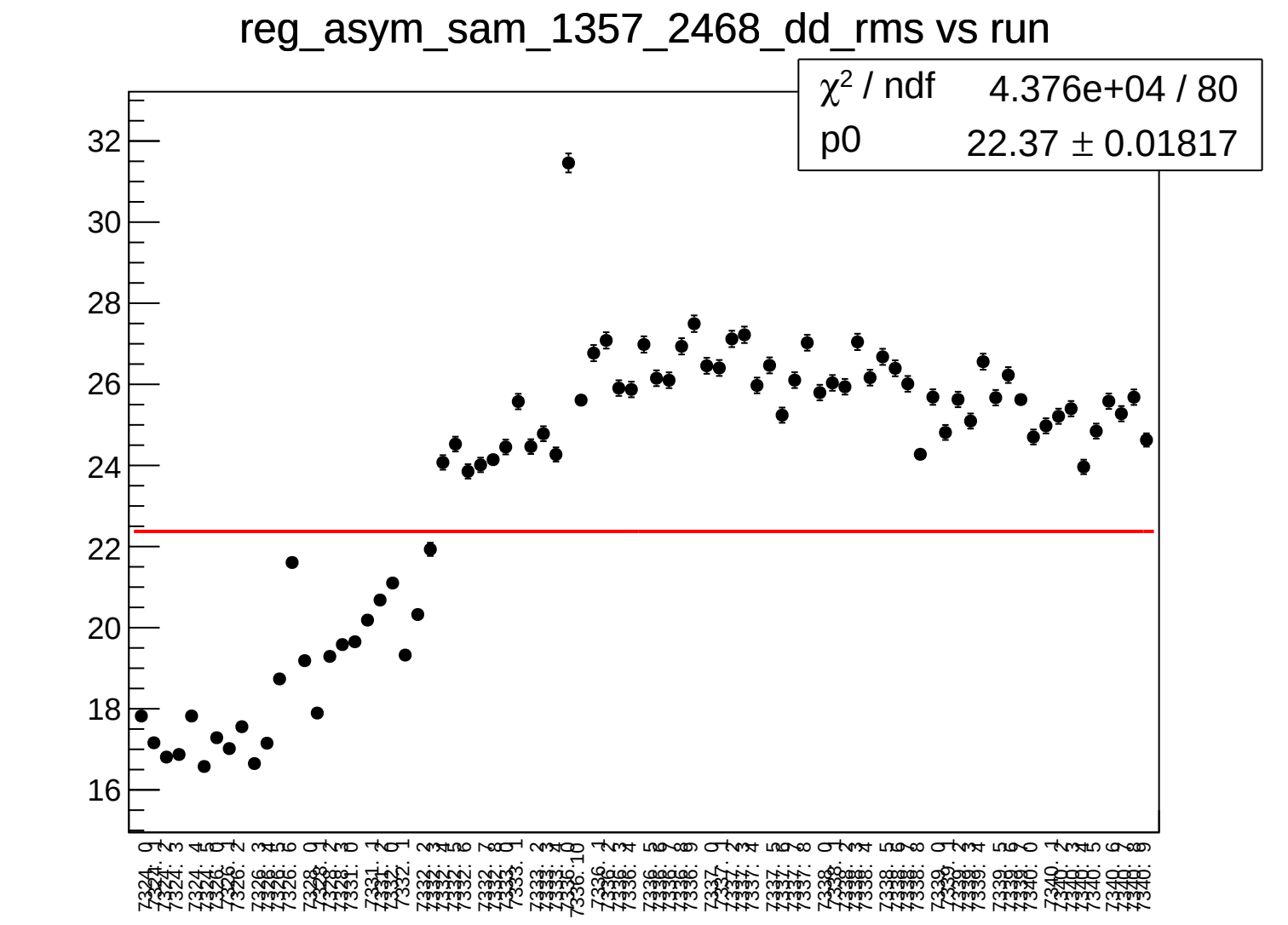

asym_sam_2468_avg_mean vs run
χ² / ndf 69.2 / 80
p0 83.67 ± 827.9
pull
Entries 81
Mean 675.1
Std Dev 625.1

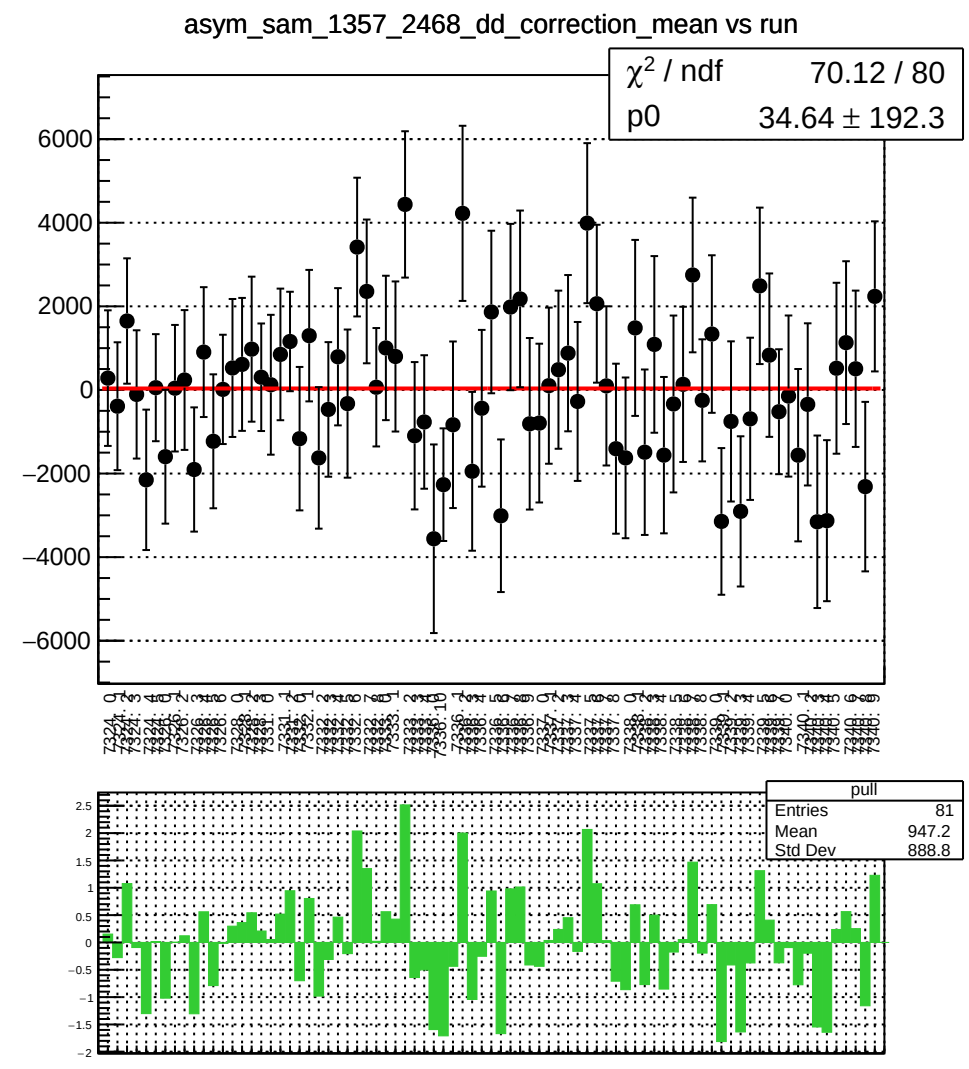

pull1D
Entries 81
Mean −0.003762
Std Dev 0.9243

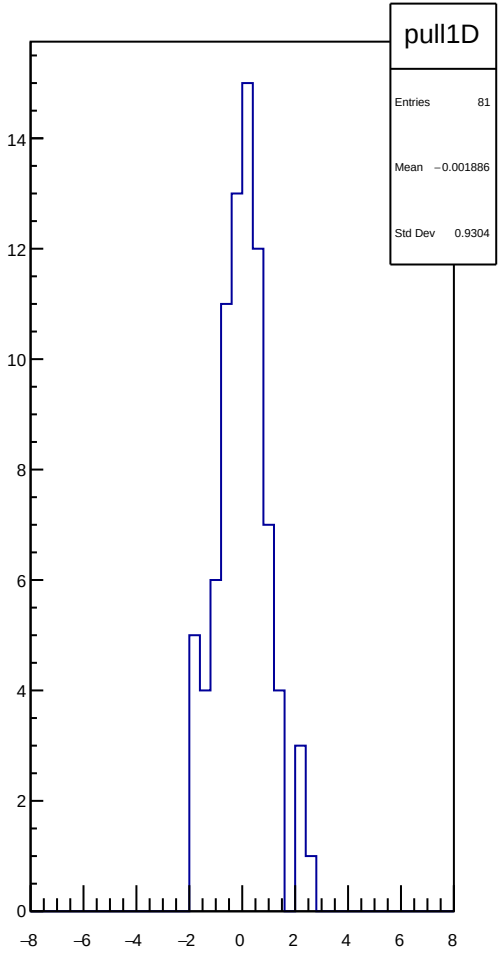

asym_sam_2468_avg_rms vs run
χ² / ndf 2.064e+04 / 80
p0 726.3 ± 0.5854
950
900
850
800
750
700
650
600
550

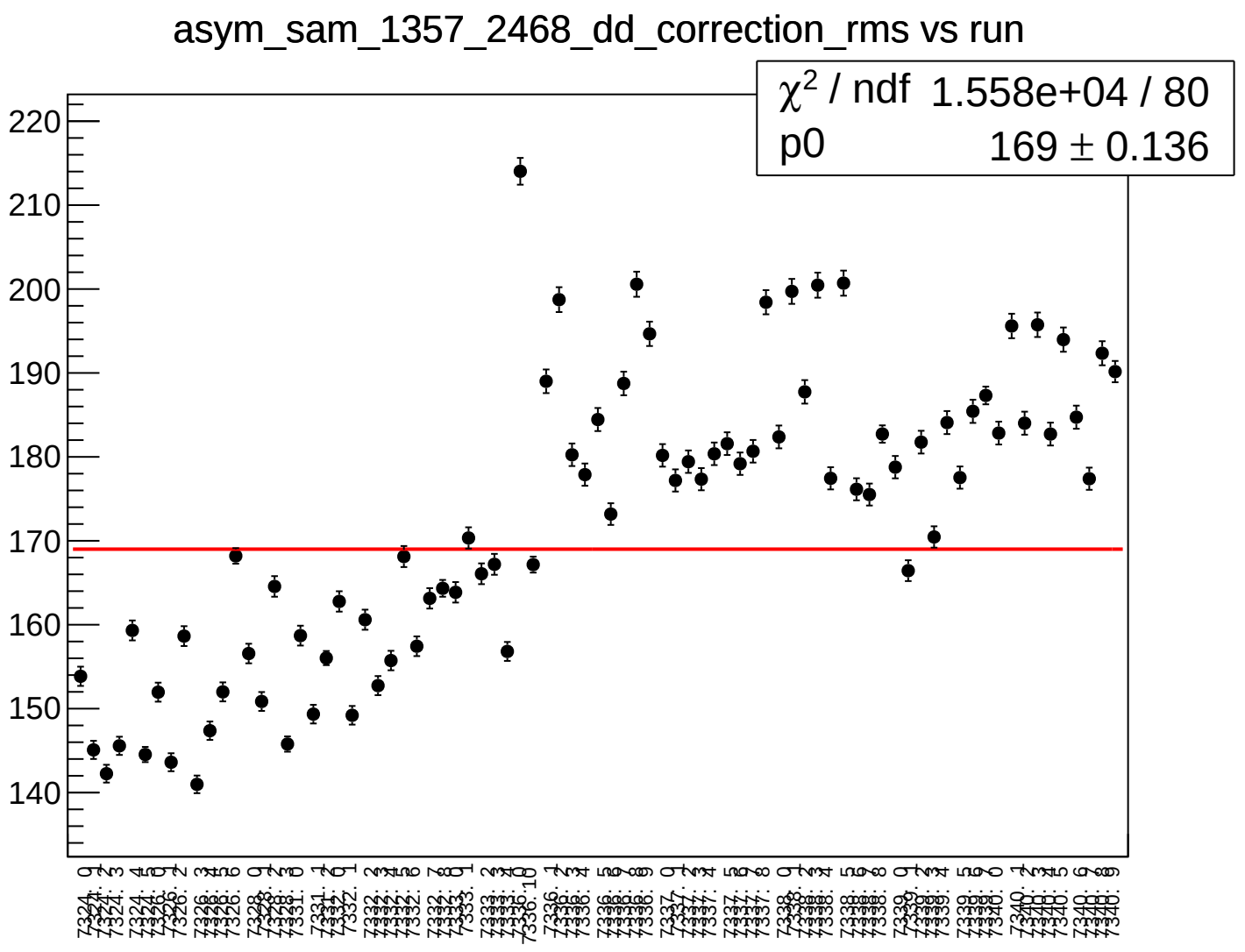

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 81.47 / 80
p0 −4.834 ± 25.7
pull
Entries 81
Mean 185.7
Std Dev 151.6

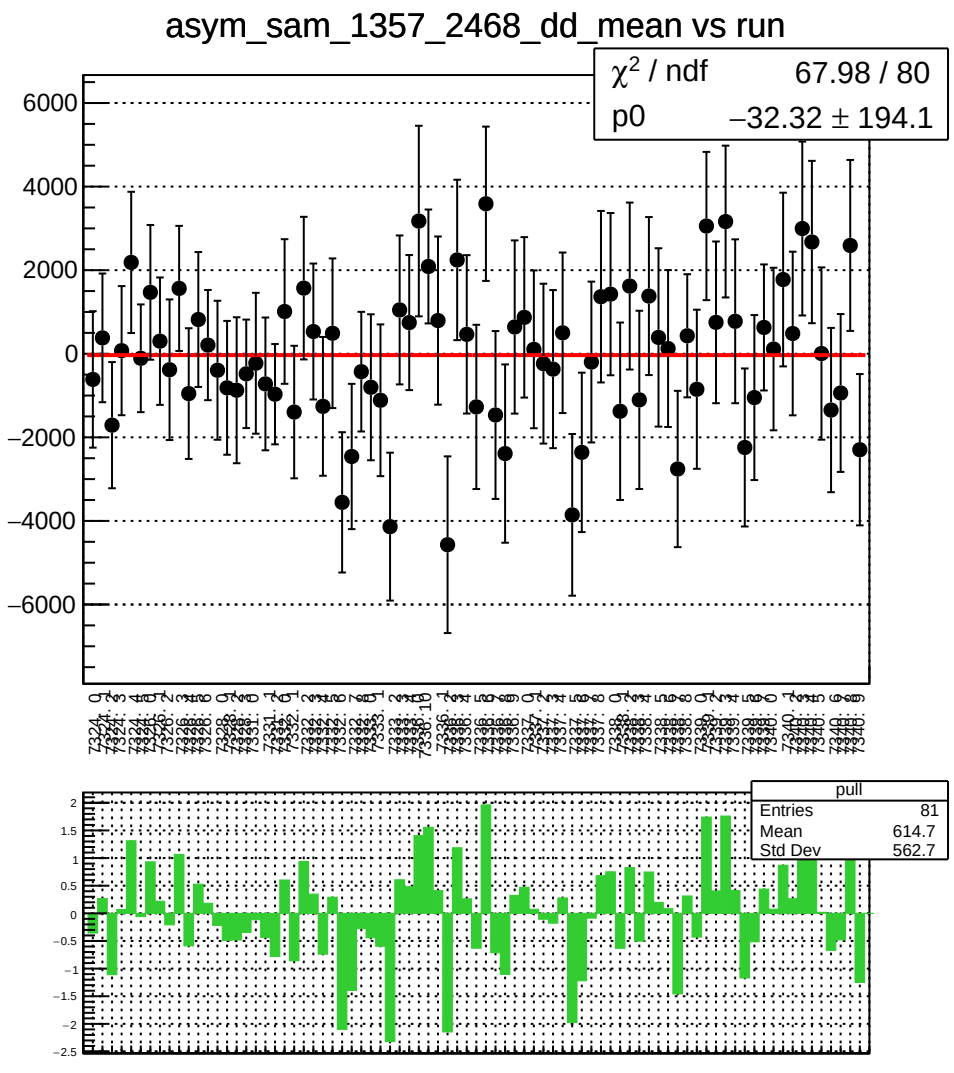

pull1D
Entries 81
Mean 0.03034
Std Dev 1.002

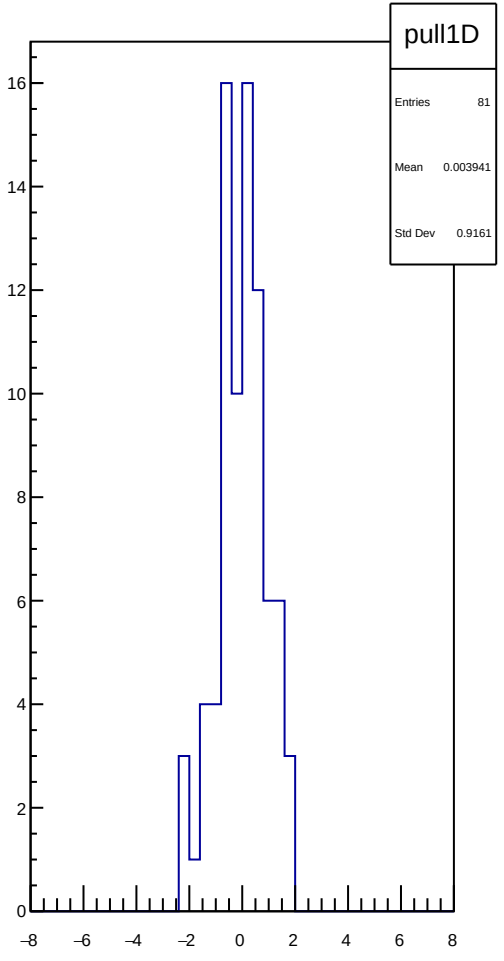

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 4.376e+04 / 80
p0 22.37 ± 0.01817
32
30
28
26
24
22
20
18
16

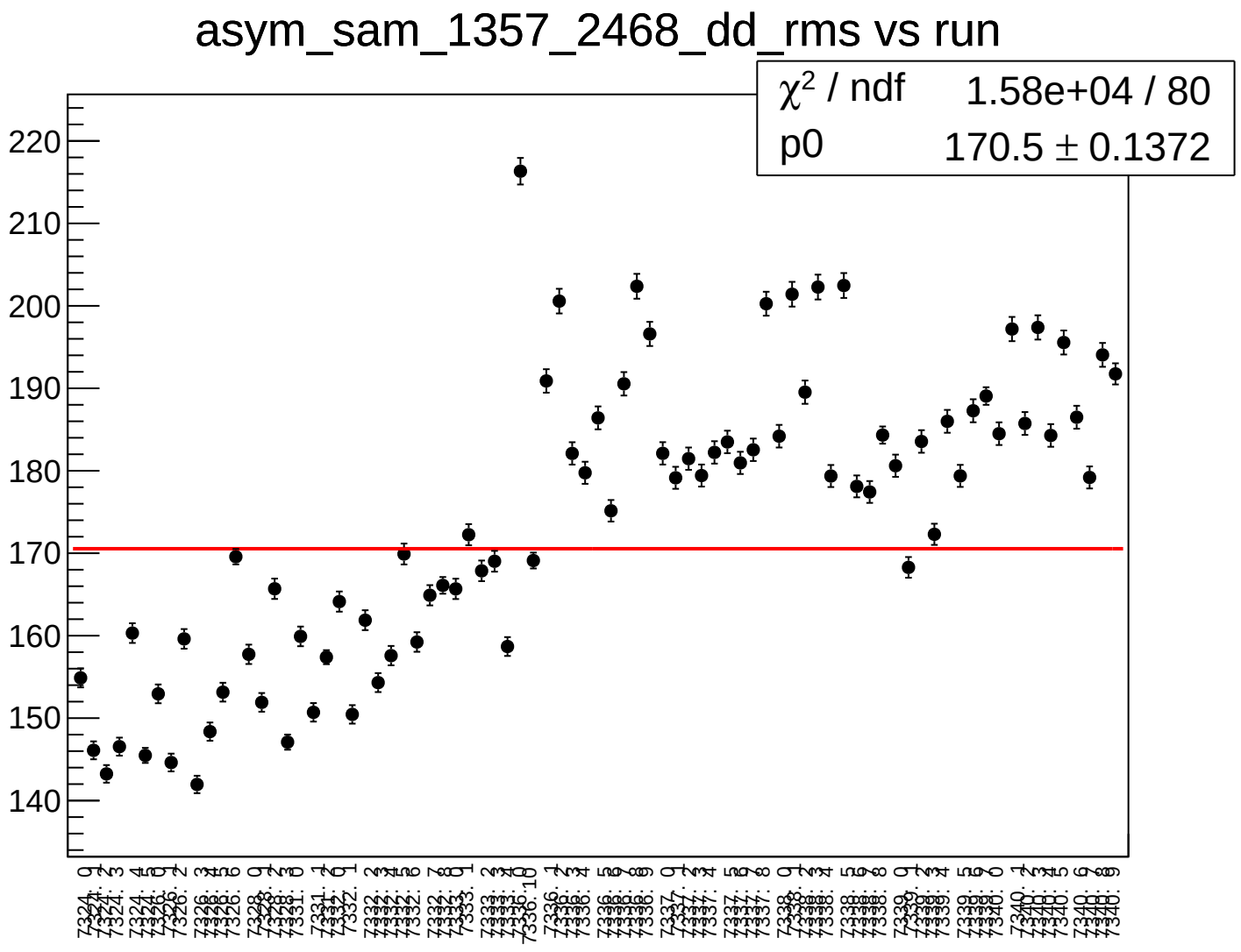

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 70.12 / 80
p0 34.64 ± 192.3
pull
Entries 81
Mean 947.2
Std Dev 888.8

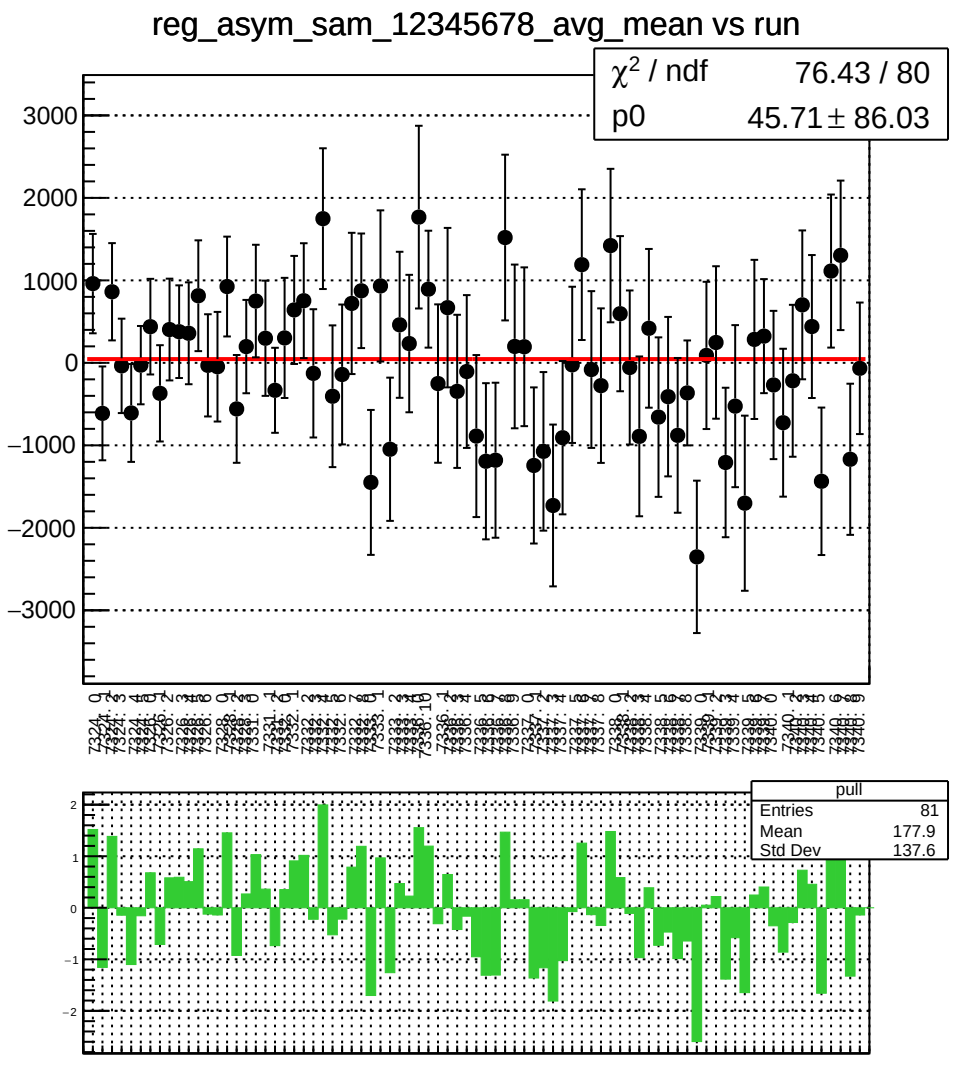

pull1D
Entries 81
Mean −0.001886
Std Dev 0.9304

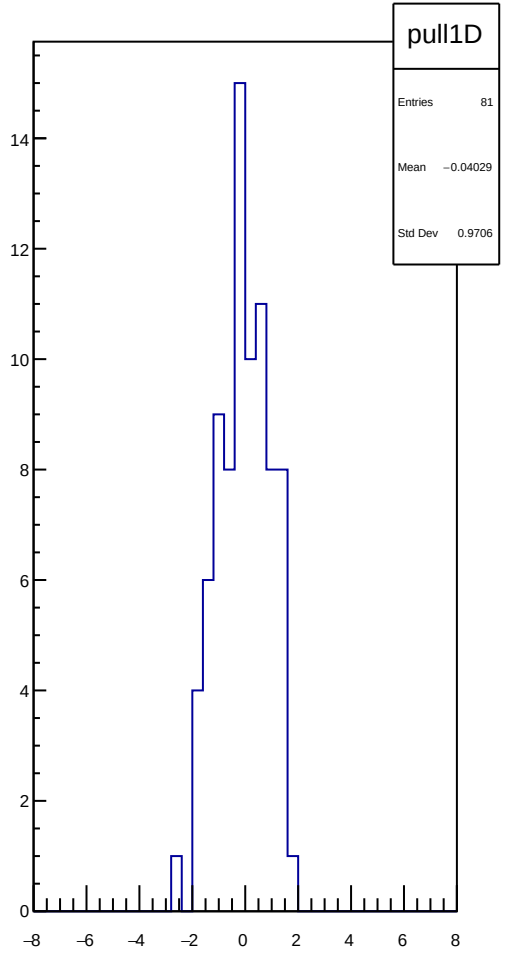

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 1.558e+04 / 80
p0 169 ± 0.136
220
210
200
190
180
170
160
150
140

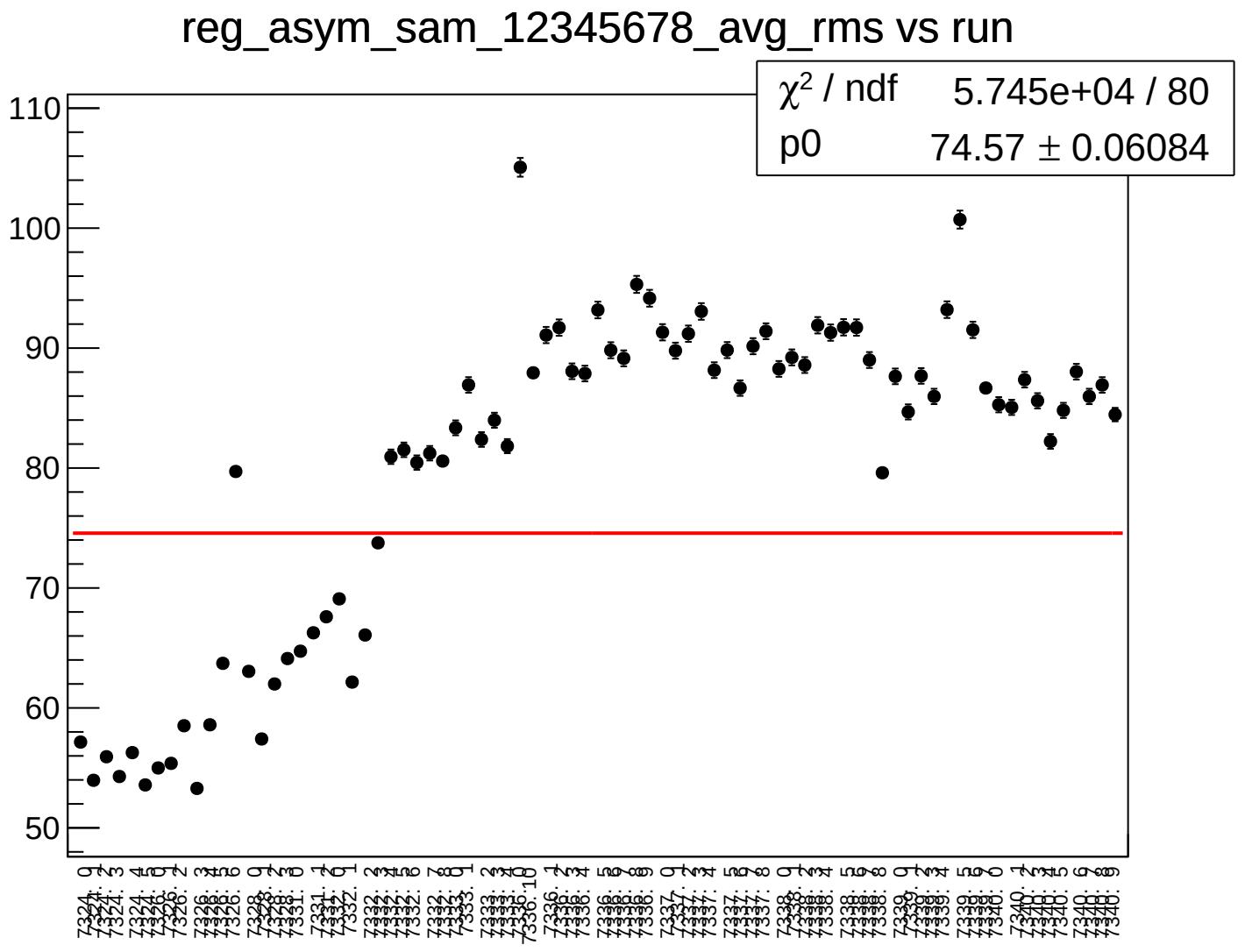

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 67.98 / 80
p0 −32.32 ± 194.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean 614.7
Std Dev 562.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

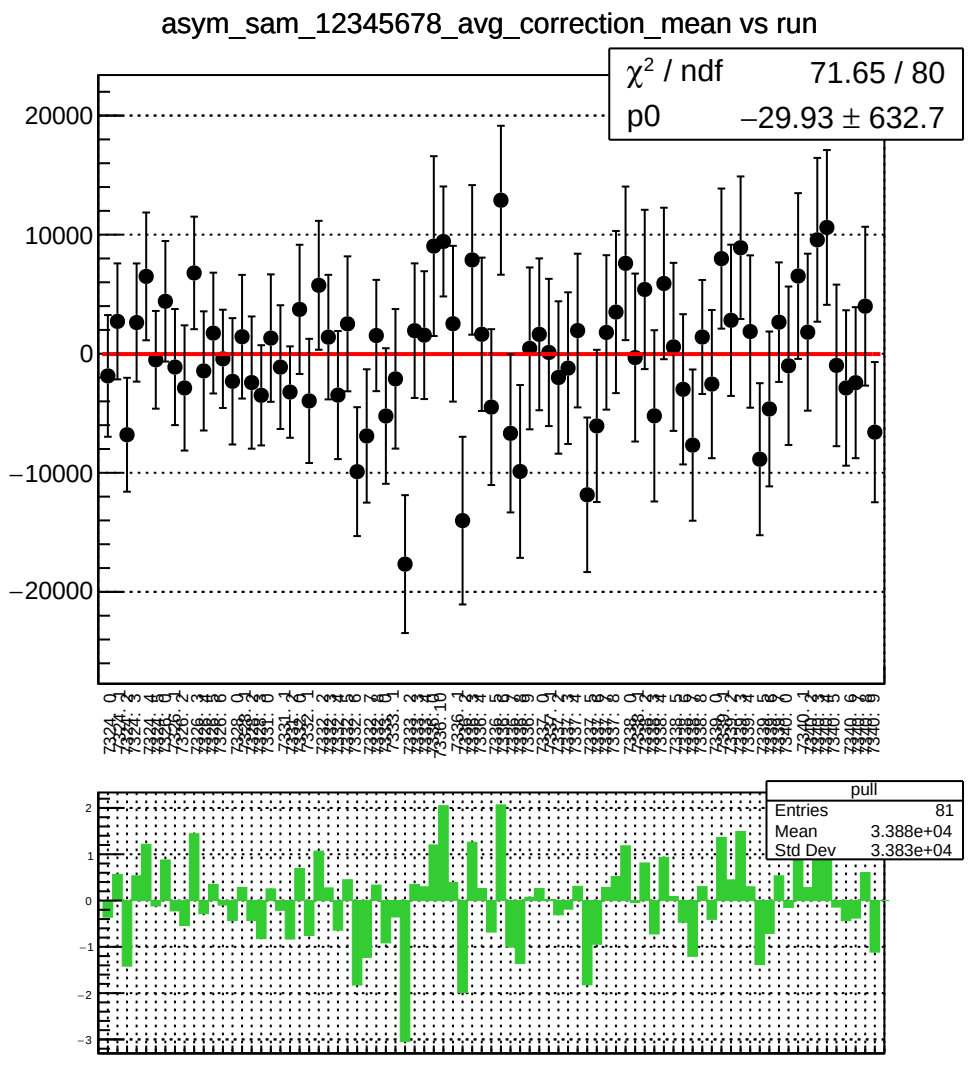

pull1D
Entries 81
Mean 0.003941
Std Dev 0.9161
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

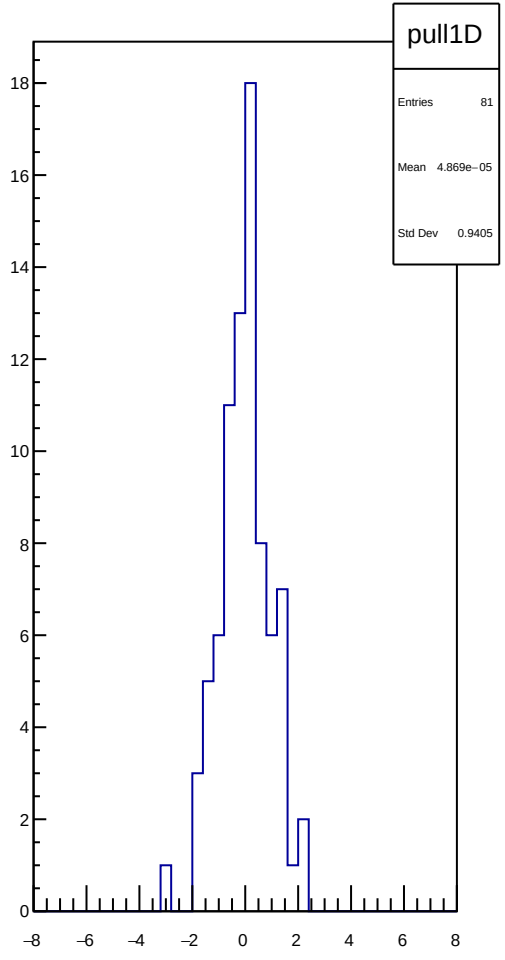

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.58e+04 / 80
p0 170.5 ± 0.1372
220
210
200
190
180
170
160
150
140

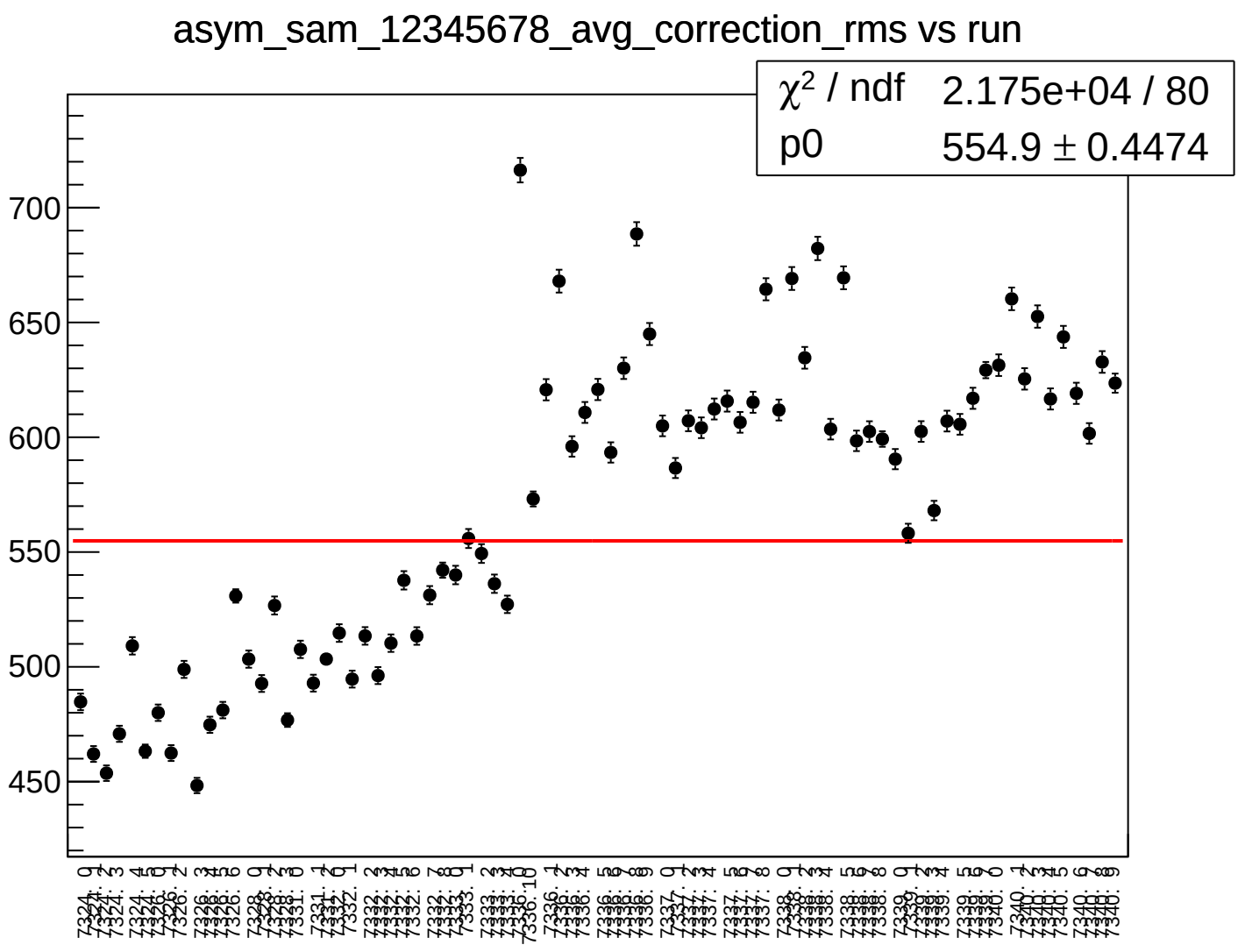

reg_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 76.43 / 80
p0 45.71 ± 86.03
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 81
Mean 177.9
Std Dev 137.6
2
1
0
−1
−2

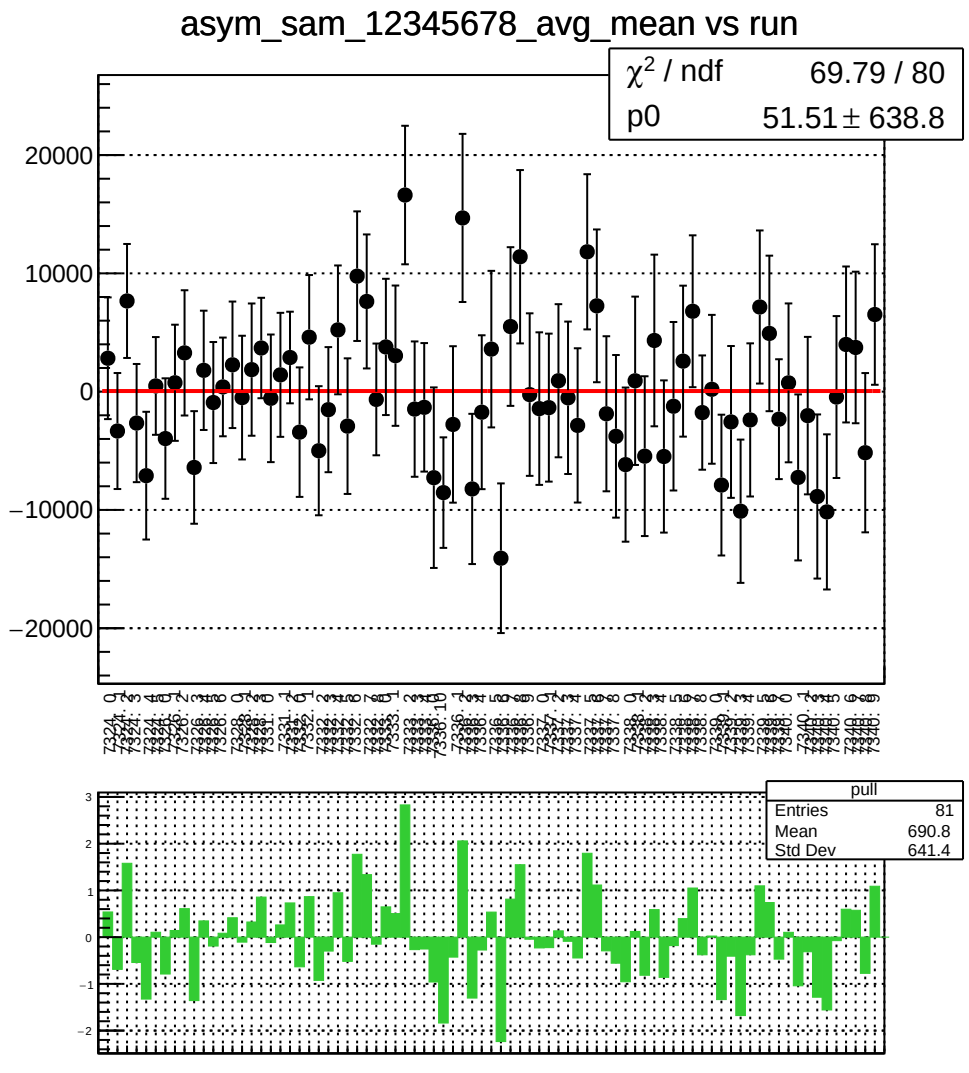

pull1D
Entries 81
Mean −0.04029
Std Dev 0.9706
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

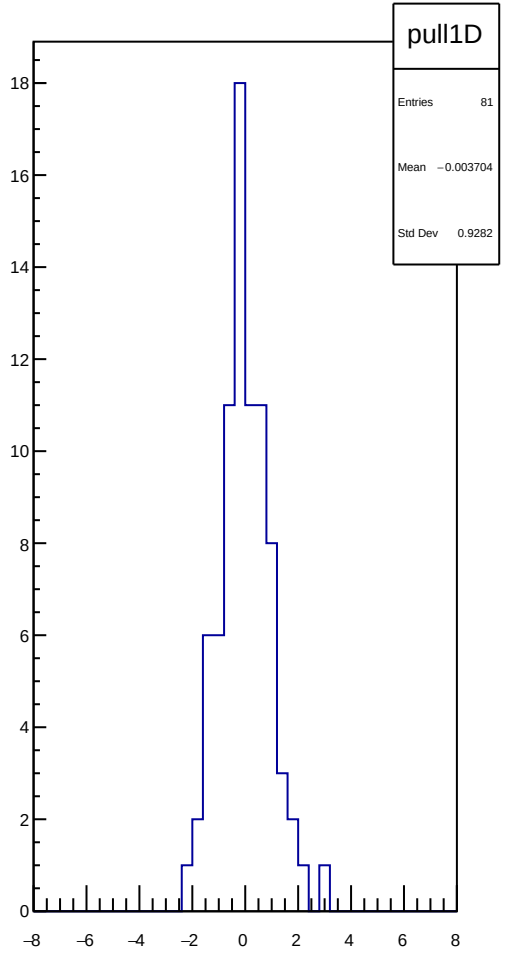

reg_asym_sam_12345678_avg_rms vs run
χ² / ndf 5.745e+04 / 80
p0 74.57 ± 0.06084
110
100
90
80
70
60
50

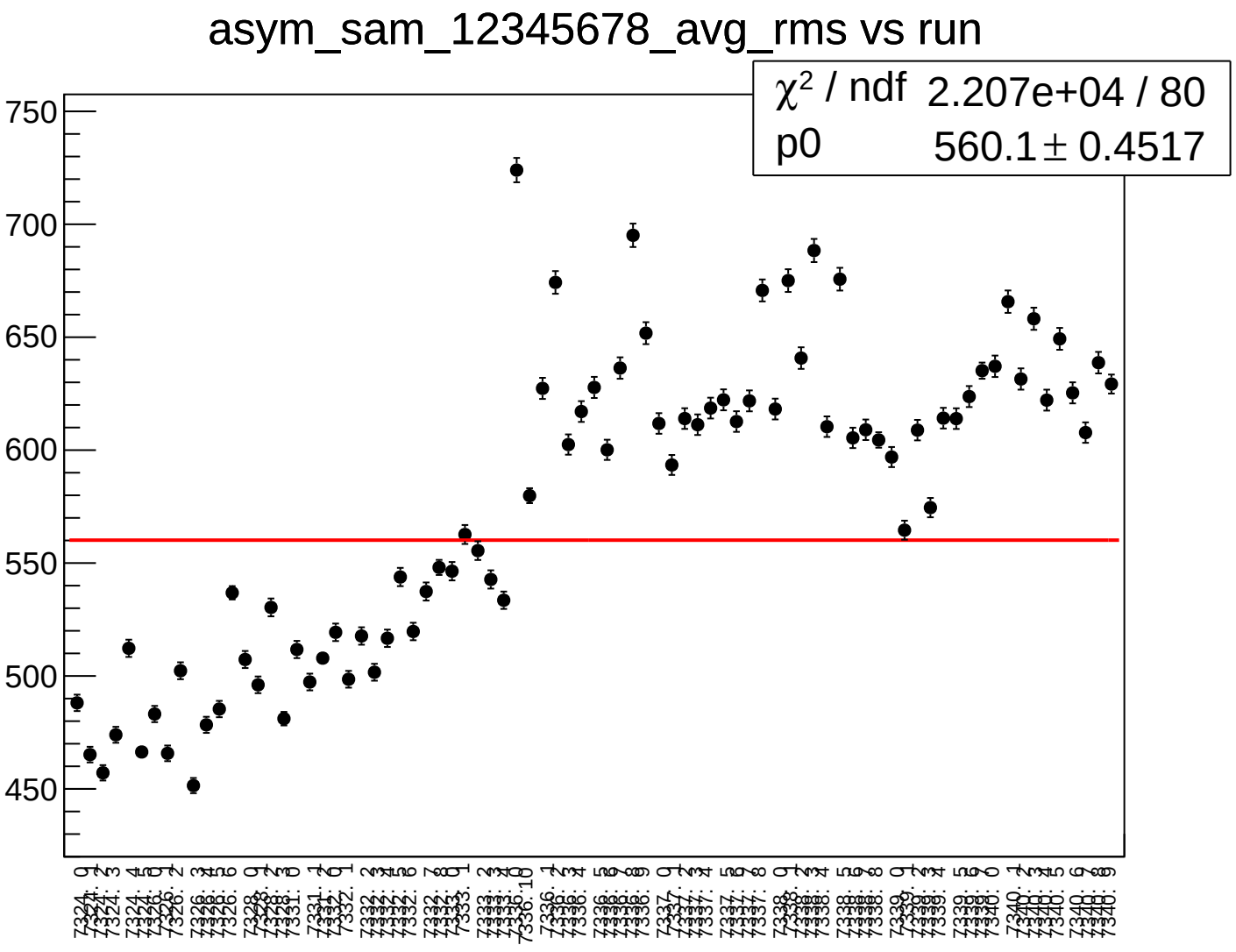

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 71.65 / 80
p0 −29.93 ± 632.7
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 3.388e+04
Std Dev 3.383e+04
2
1
0
−1
−2
−3

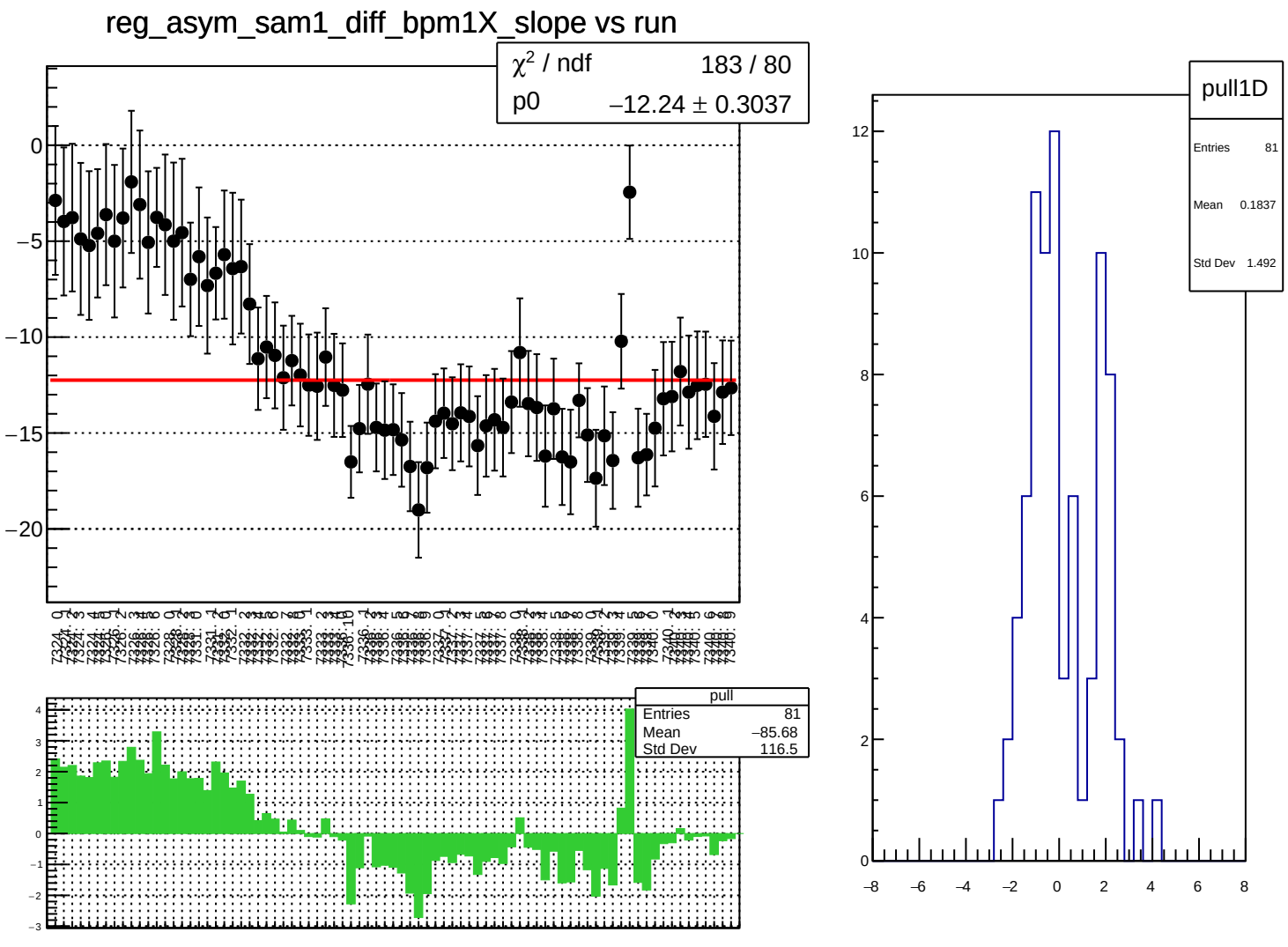

pull1D
Entries 81
Mean 4.869e−05
Std Dev 0.9405
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

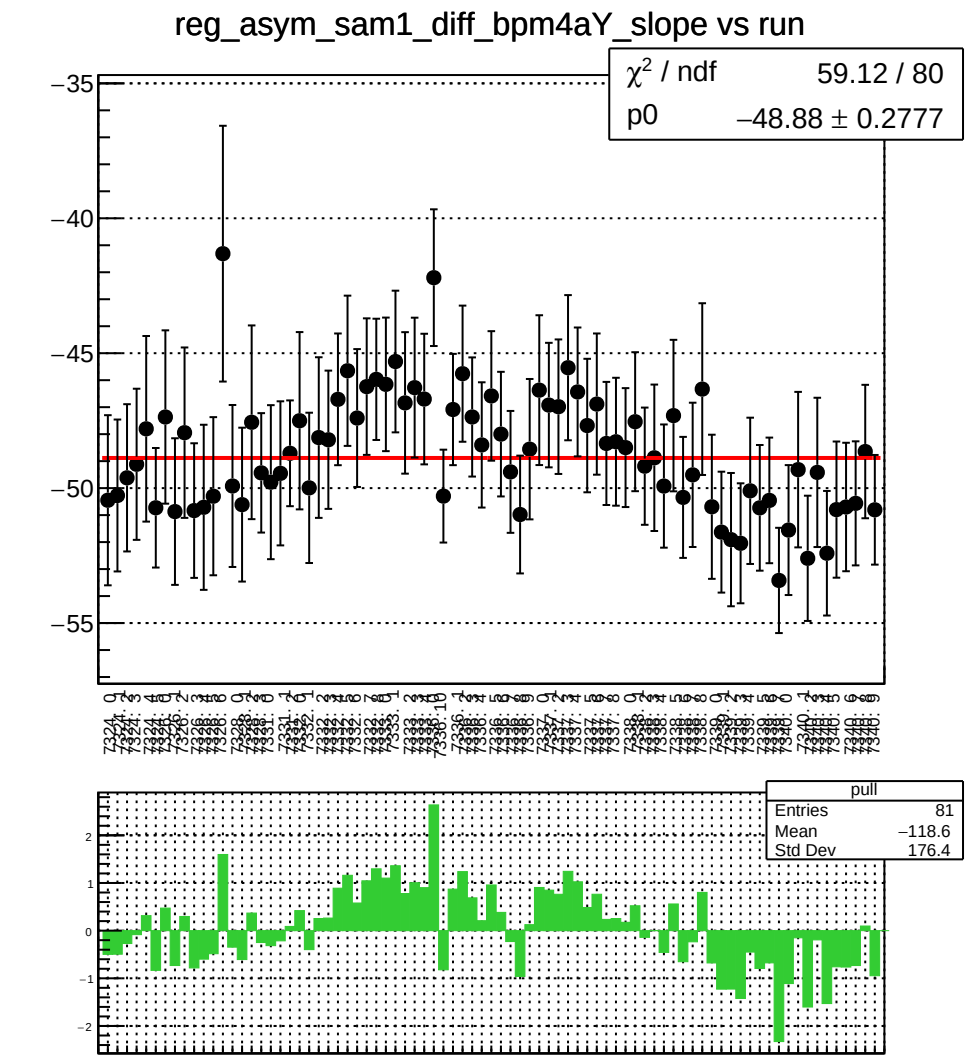

asym_sam_12345678_avg_correction_rms vs run
χ² / ndf 2.175e+04 / 80
p0 554.9 ± 0.4474
700
650
600
550
500
450

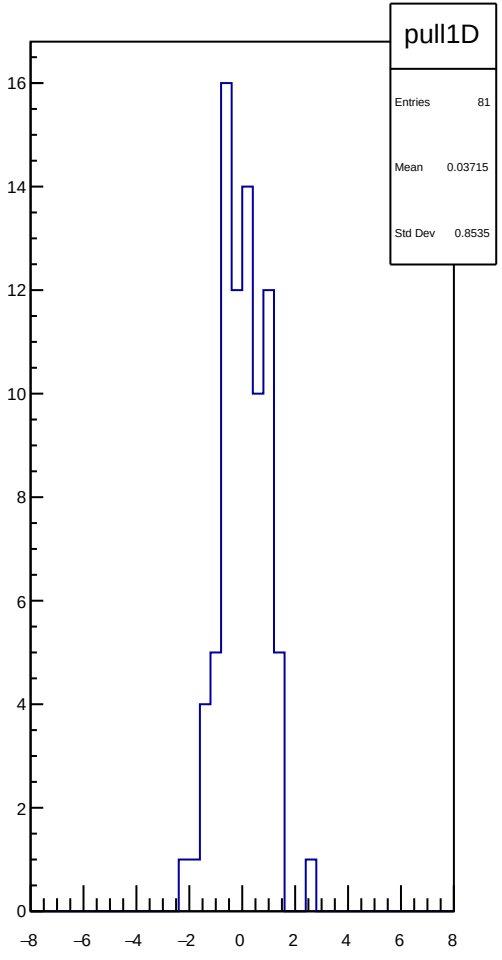

asym_sam_12345678_avg_mean vs run
χ² / ndf 69.79 / 80
p0 51.51 ± 638.8
20000
10000
0
−10000
−20000
pull
Entries 81
Mean 690.8
Std Dev 641.4
3
2
1
0
−1
−2

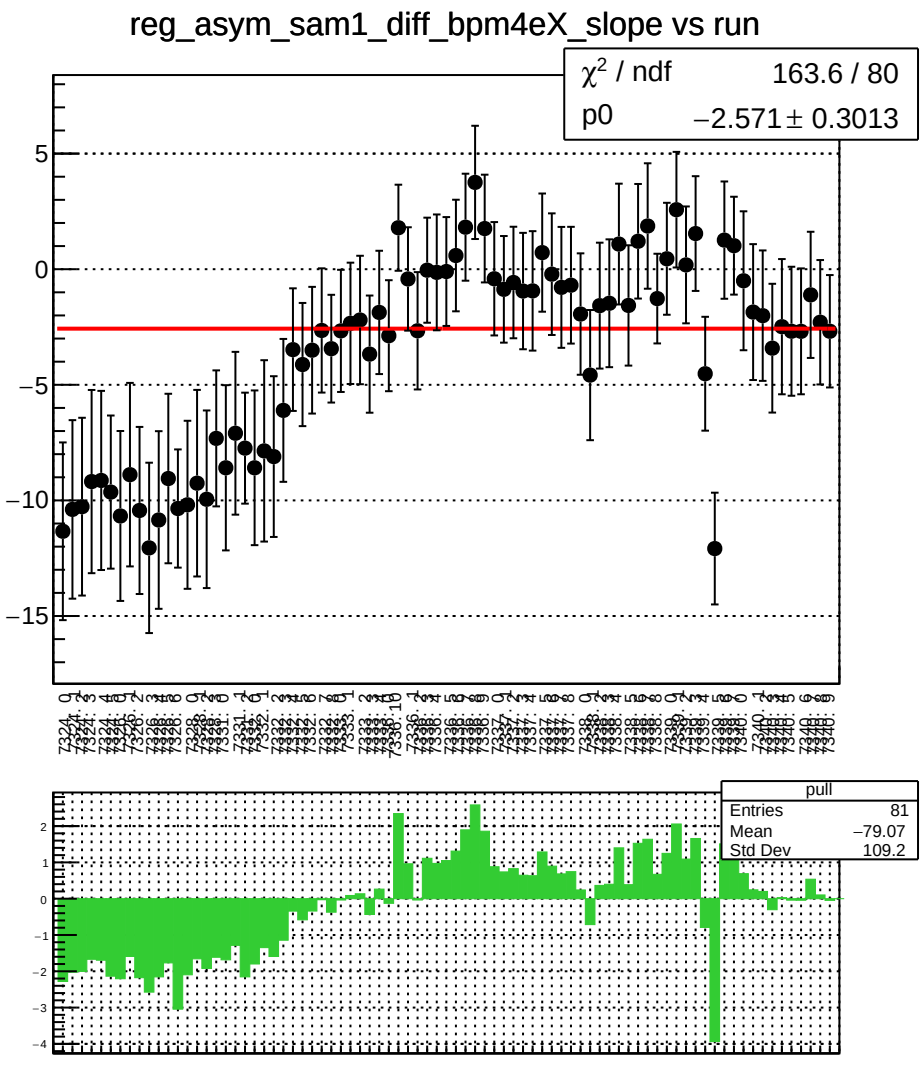

pull1D
Entries 81
Mean −0.003704
Std Dev 0.9282
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

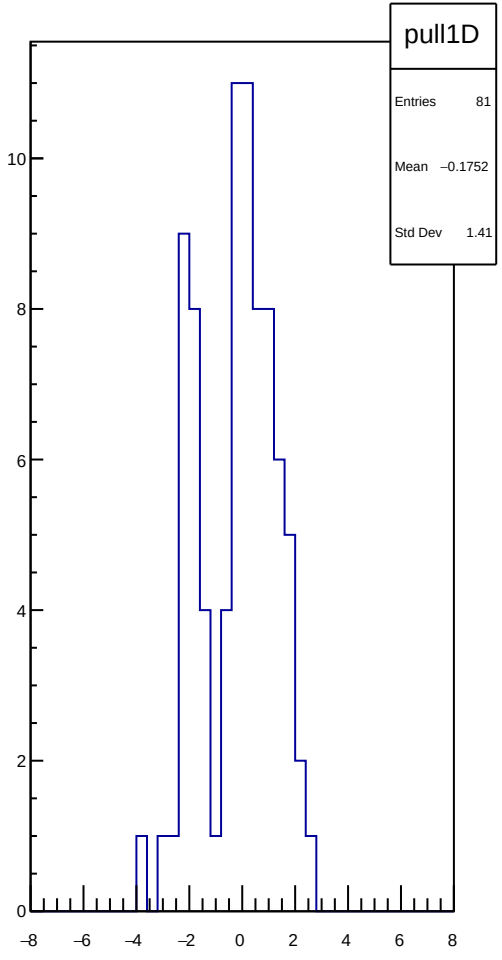

asym_sam_12345678_avg_rms vs run
χ² / ndf 2.207e+04 / 80
p0 560.1 ± 0.4517
750
700
650
600
550
500
450

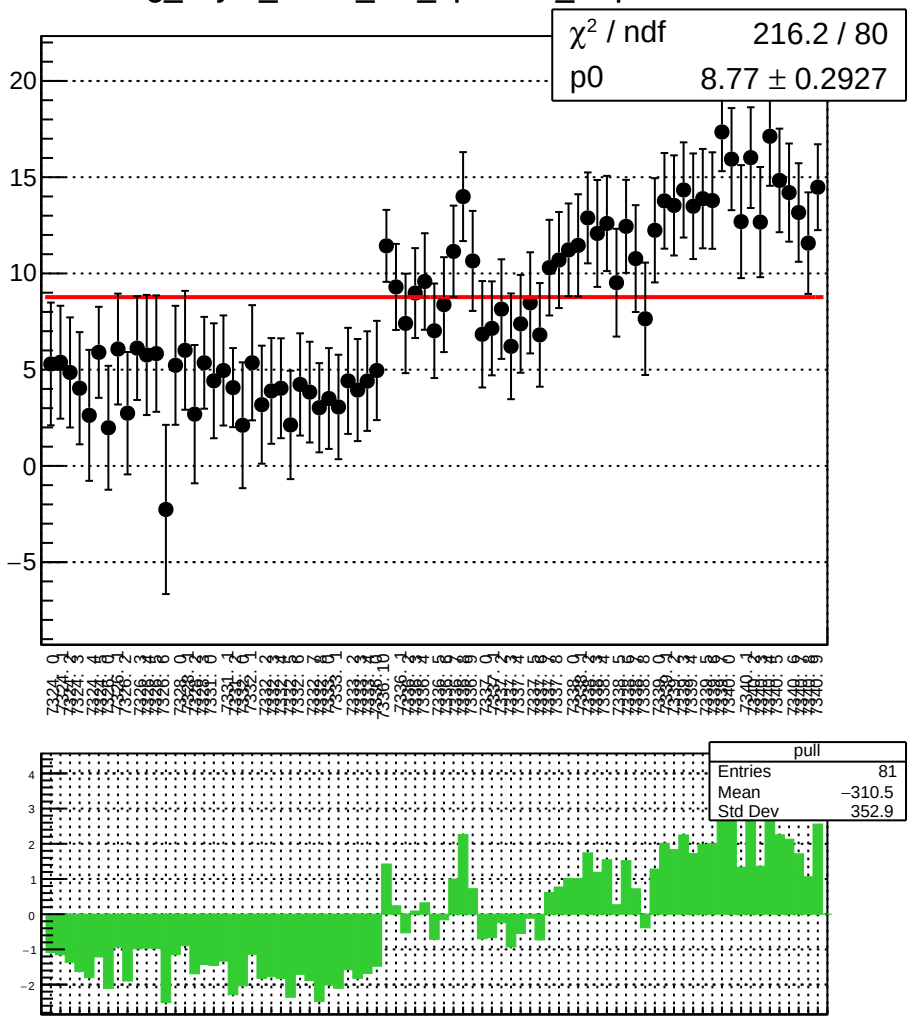

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 183 / 80
p0 −12.24 ± 0.3037
pull
Entries 81
Mean −85.68
Std Dev 116.5
pull1D
Entries 81
Mean 0.1837
Std Dev 1.492

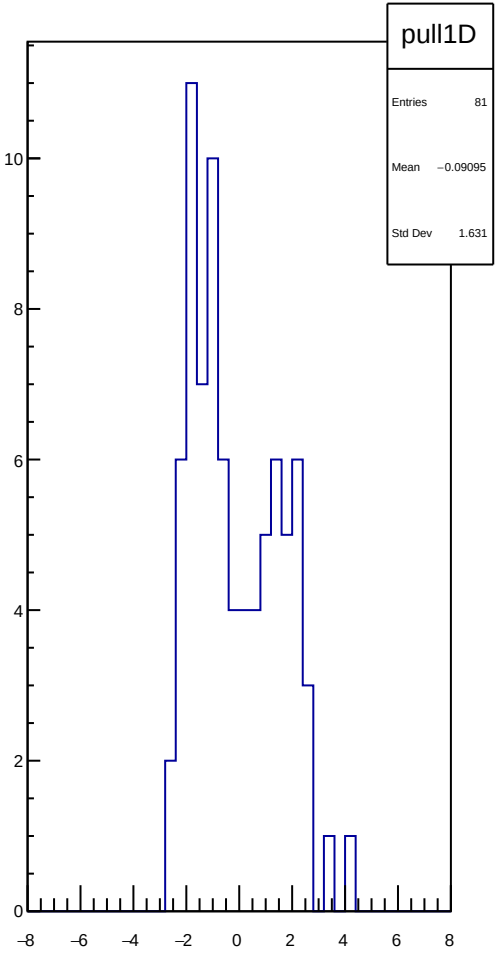

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 59.12 / 80
p0 −48.88 ± 0.2777
pull
Entries 81
Mean −118.6
Std Dev 176.4

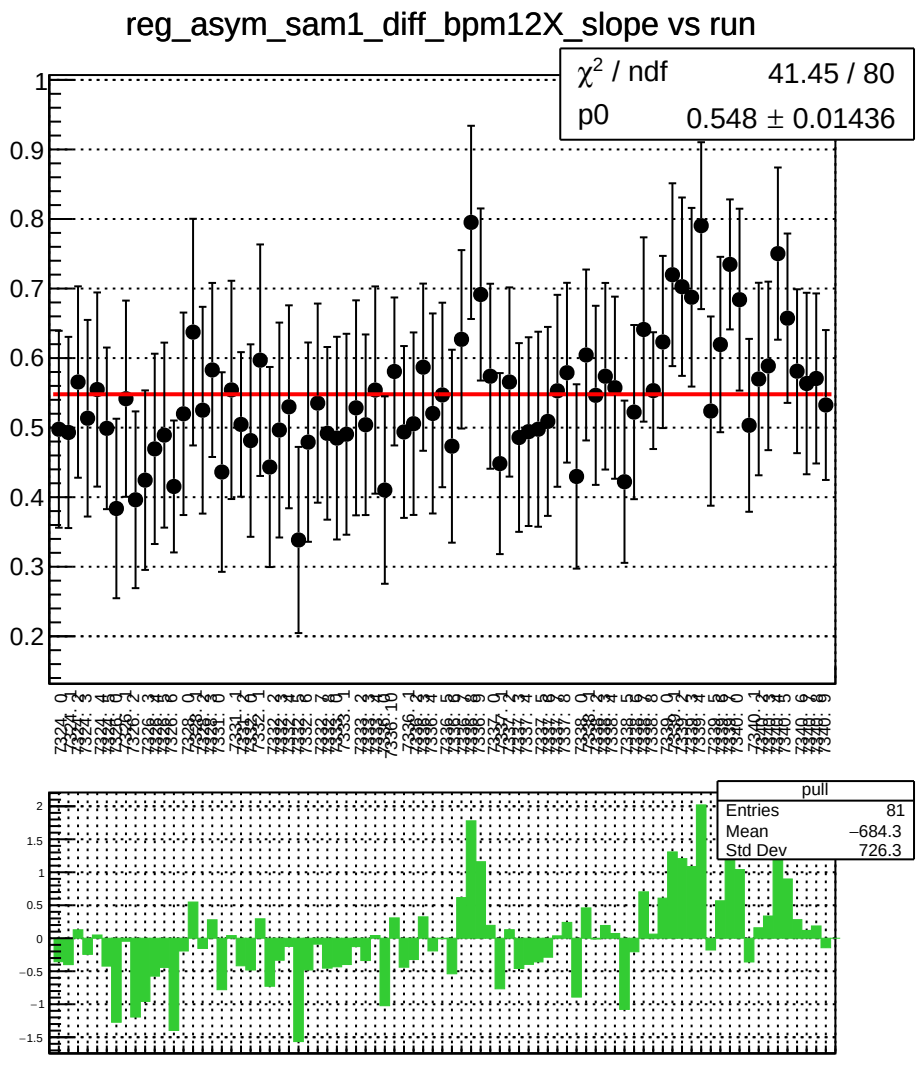

pull1D
Entries 81
Mean 0.03715
Std Dev 0.8535

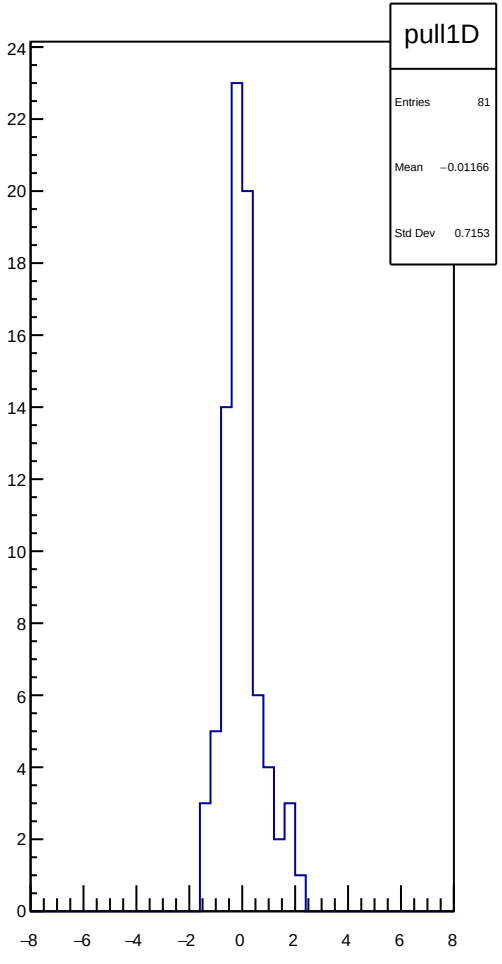

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 163.6 / 80
p0 −2.571 ± 0.3013
pull
Entries 81
Mean −79.07
Std Dev 109.2

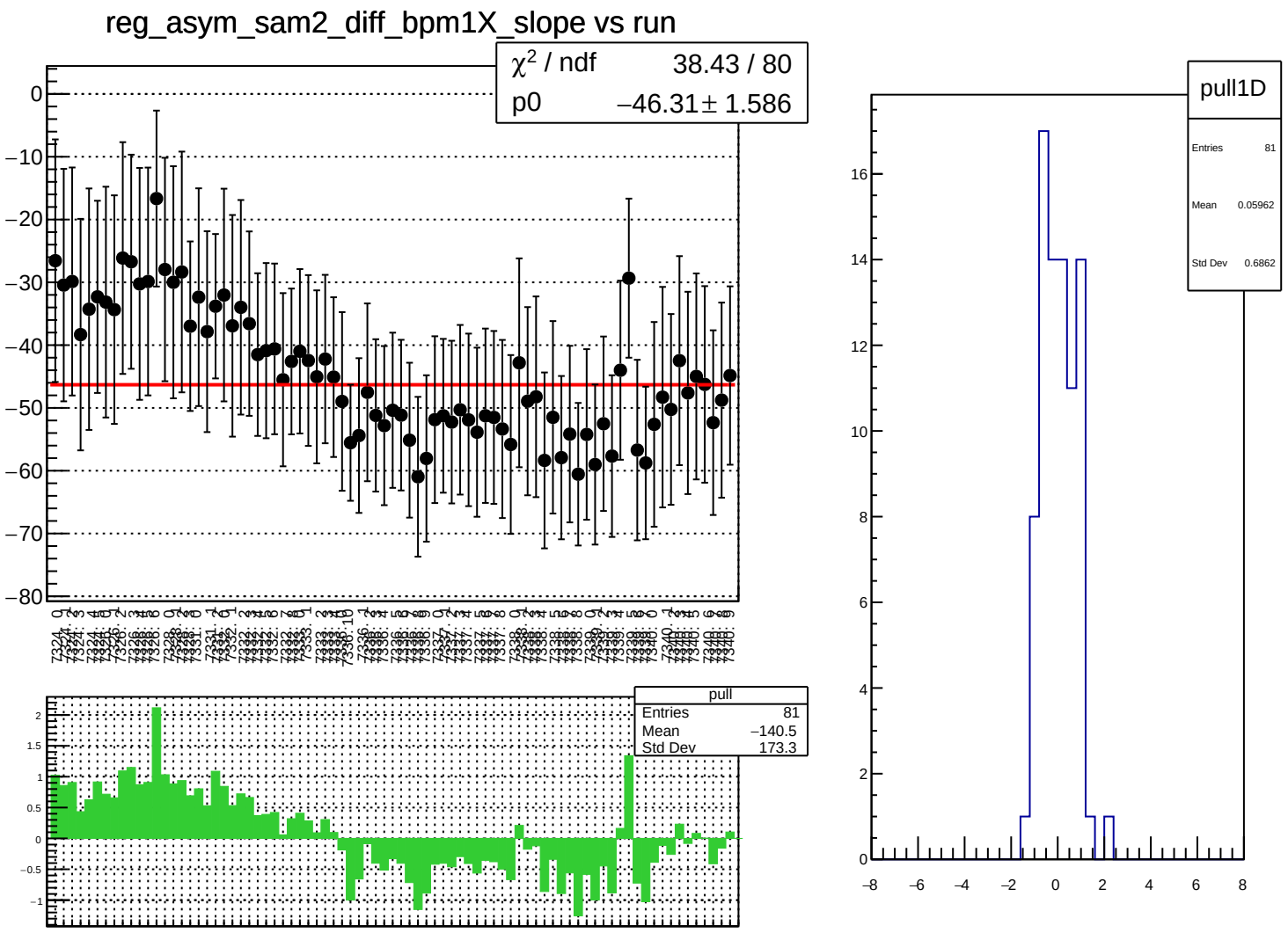

pull1D
Entries 81
Mean −0.1752
Std Dev 1.41

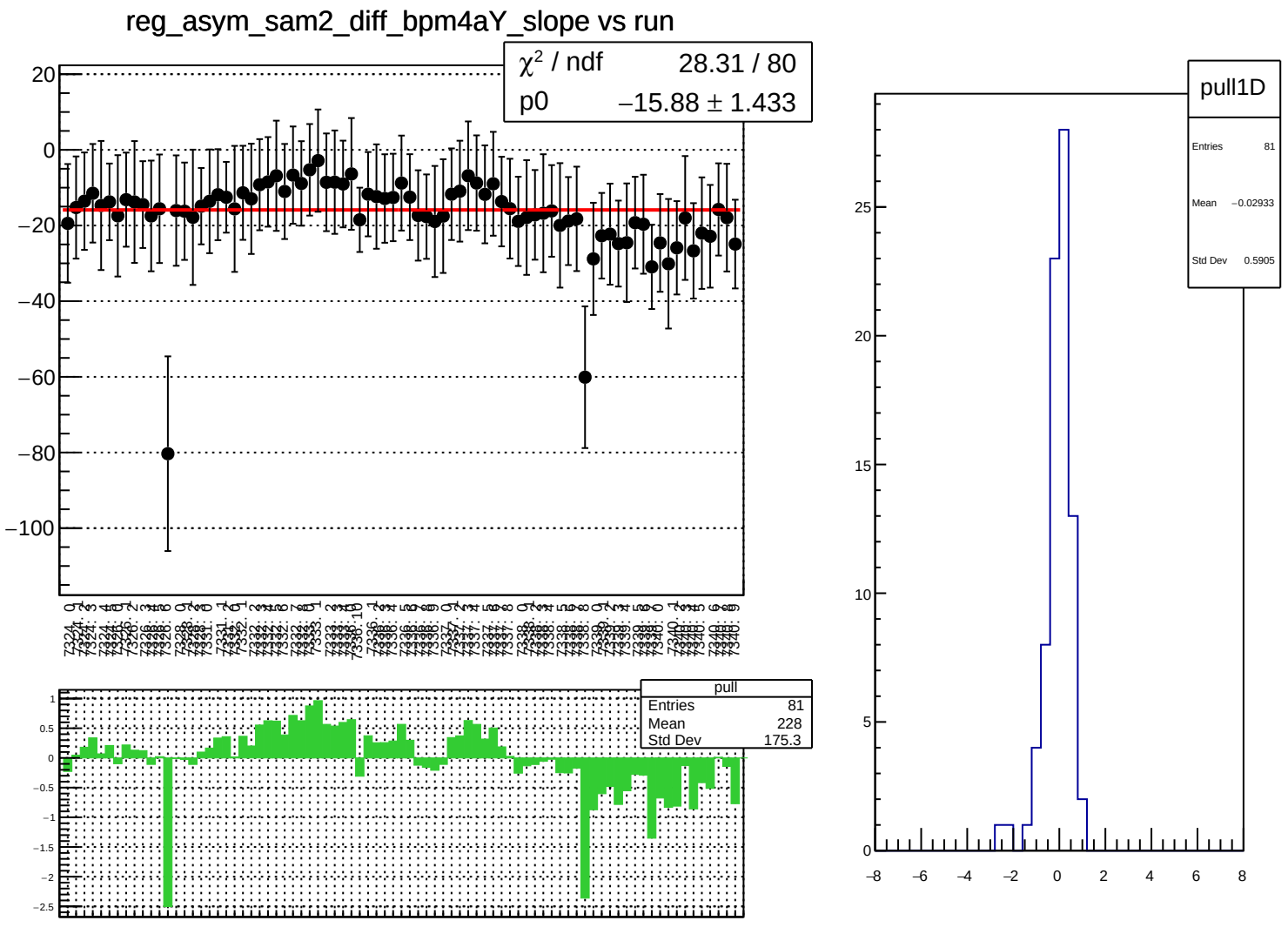

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 216.2 / 80
p0 8.77 ± 0.2927
pull
Entries 81
Mean −310.5
Std Dev 352.9

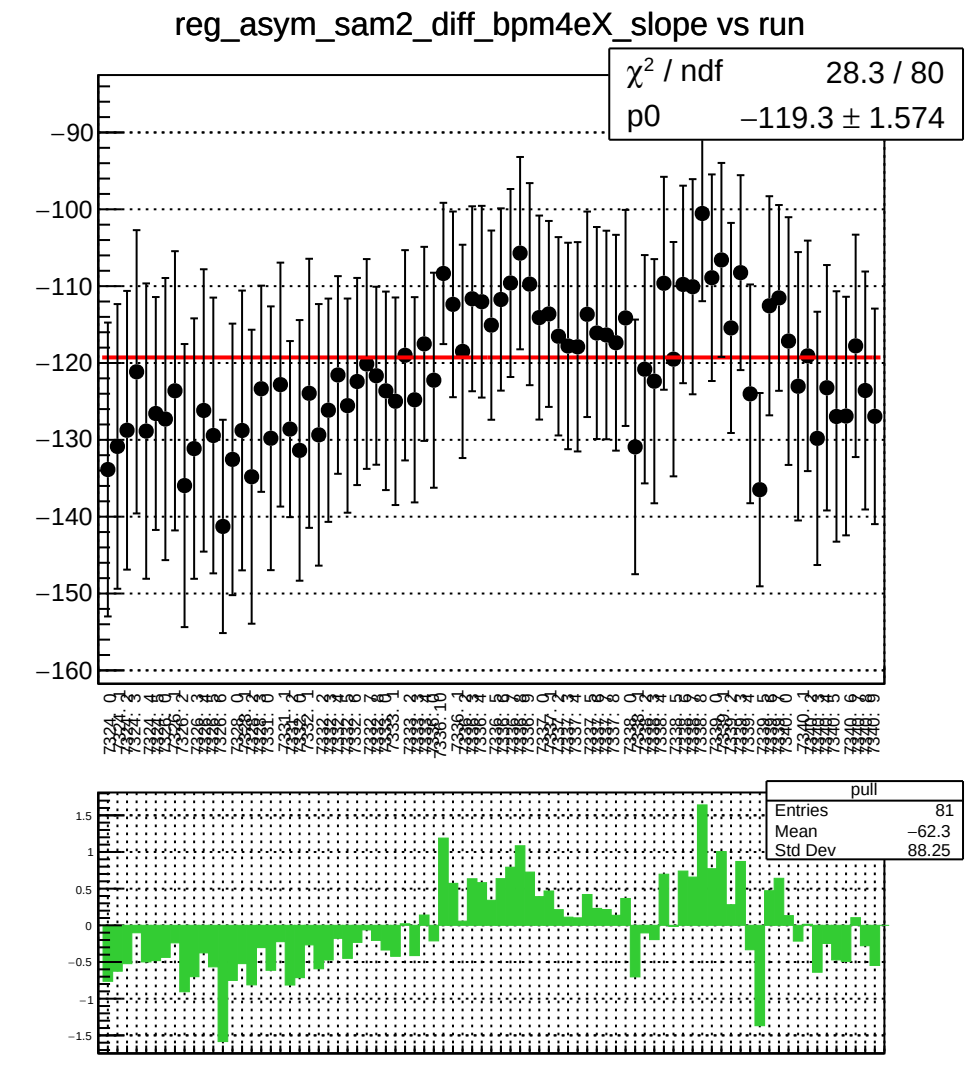

pull1D
Entries 81
Mean −0.09095
Std Dev 1.631

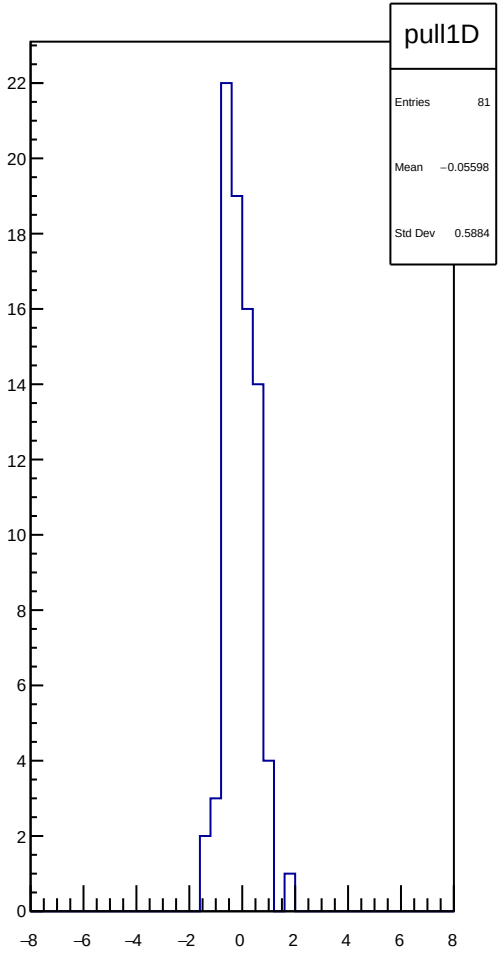

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 41.45 / 80
p0 0.548 ± 0.01436
pull
Entries 81
Mean −684.3
Std Dev 726.3

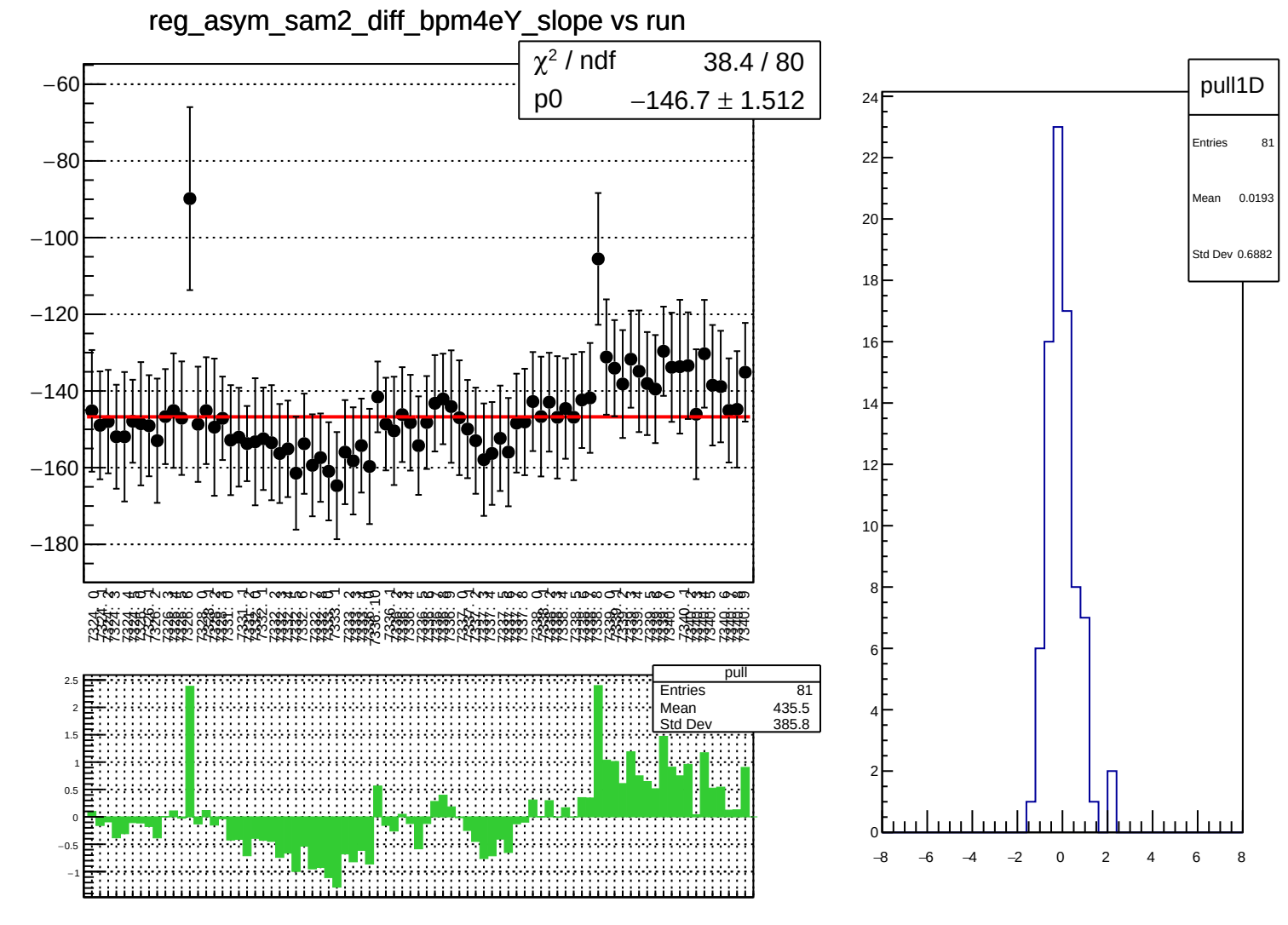

pull1D
Entries 81
Mean −0.01166
Std Dev 0.7153

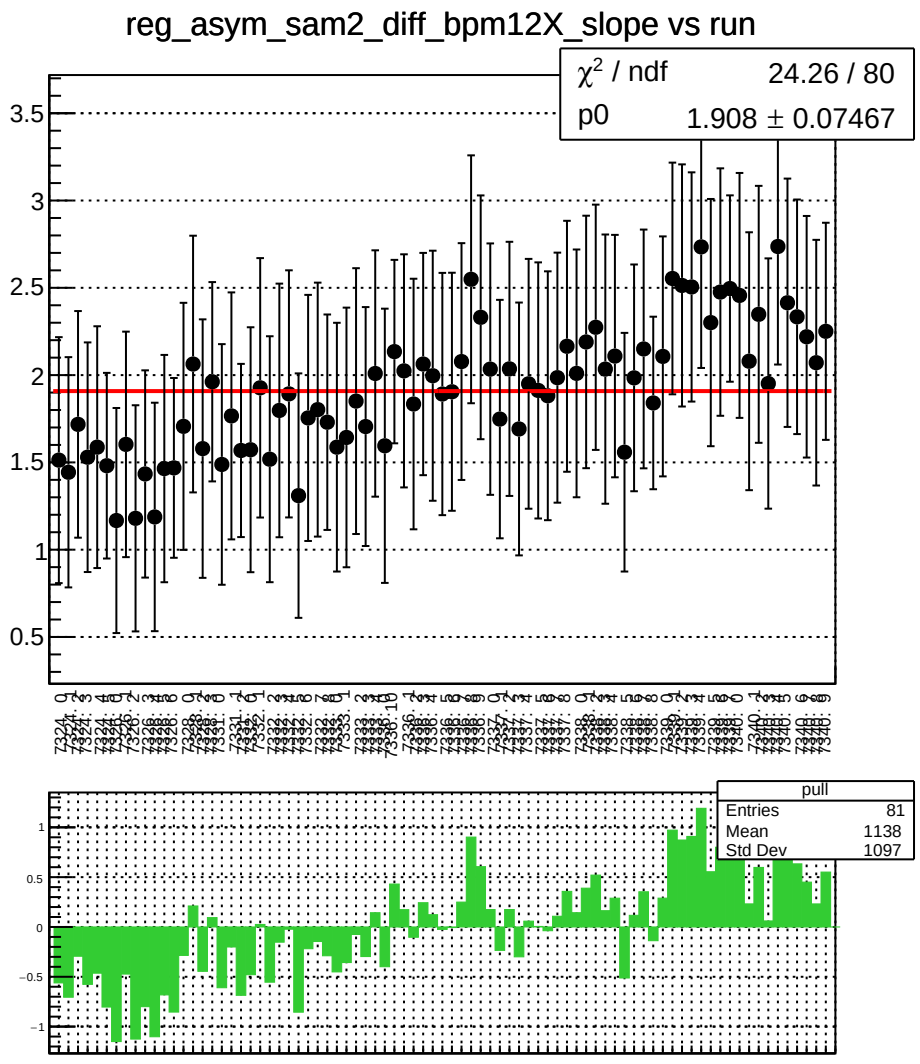

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 38.43 / 80
p0 −46.31 ± 1.586
pull
Entries 81
Mean −140.5
Std Dev 173.3
pull1D
Entries 81
Mean 0.05962
Std Dev 0.6862

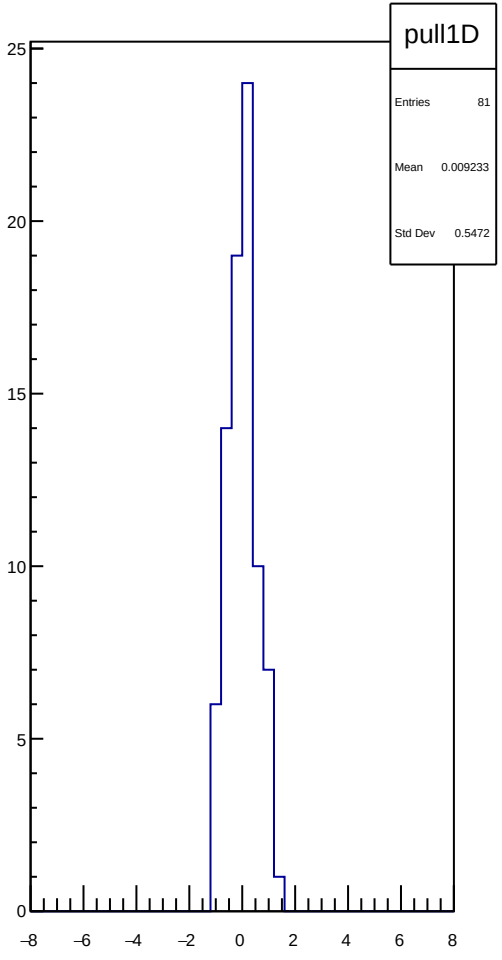

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 28.31 / 80
p0 −15.88 ± 1.433
pull
Entries 81
Mean 228
Std Dev 175.3
pull1D
Entries 81
Mean −0.02933
Std Dev 0.5905

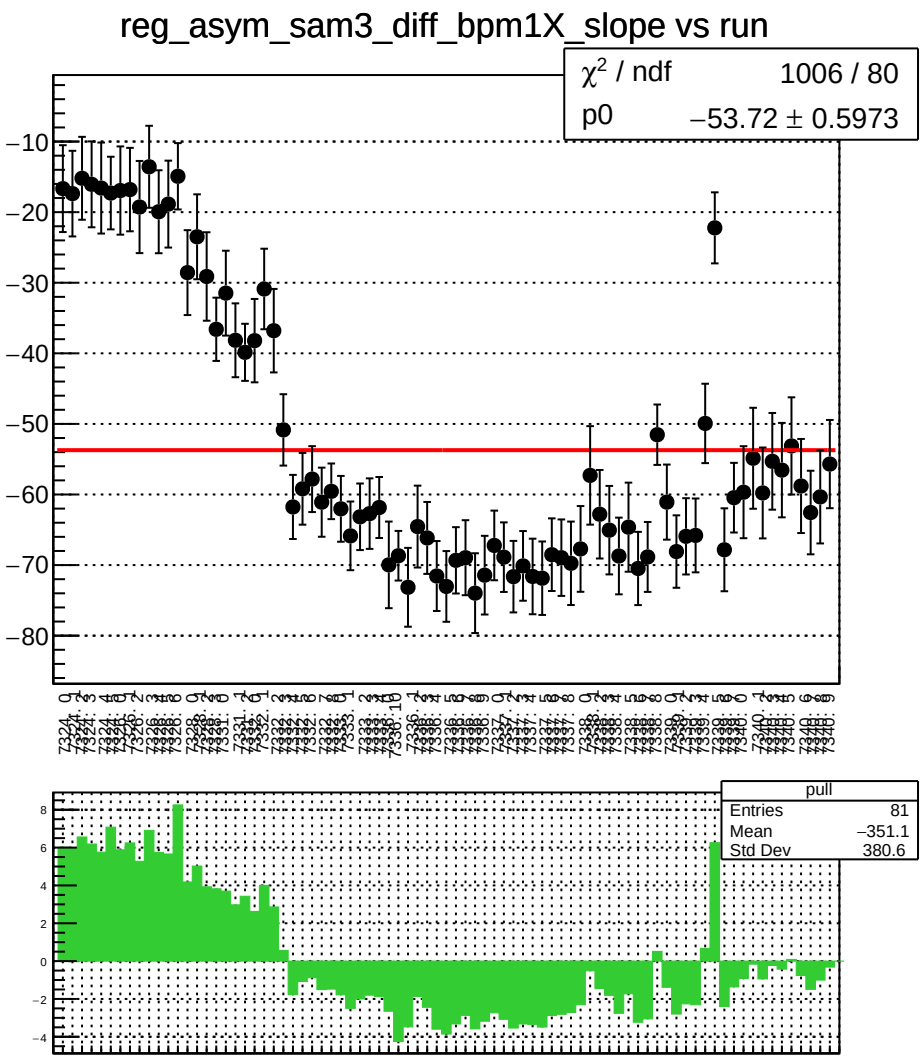

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 28.3 / 80
p0 −119.3 ± 1.574
pull
Entries 81
Mean −62.3
Std Dev 88.25

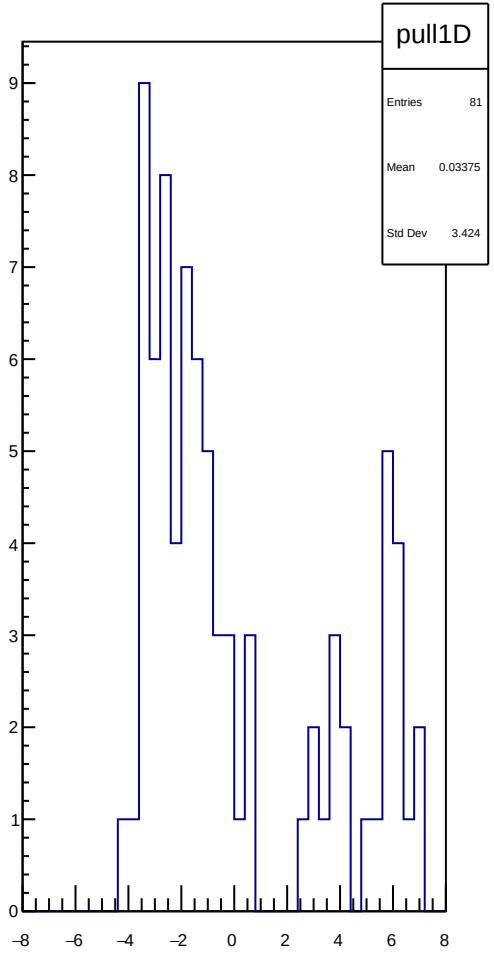

pull1D
Entries 81
Mean −0.05598
Std Dev 0.5884

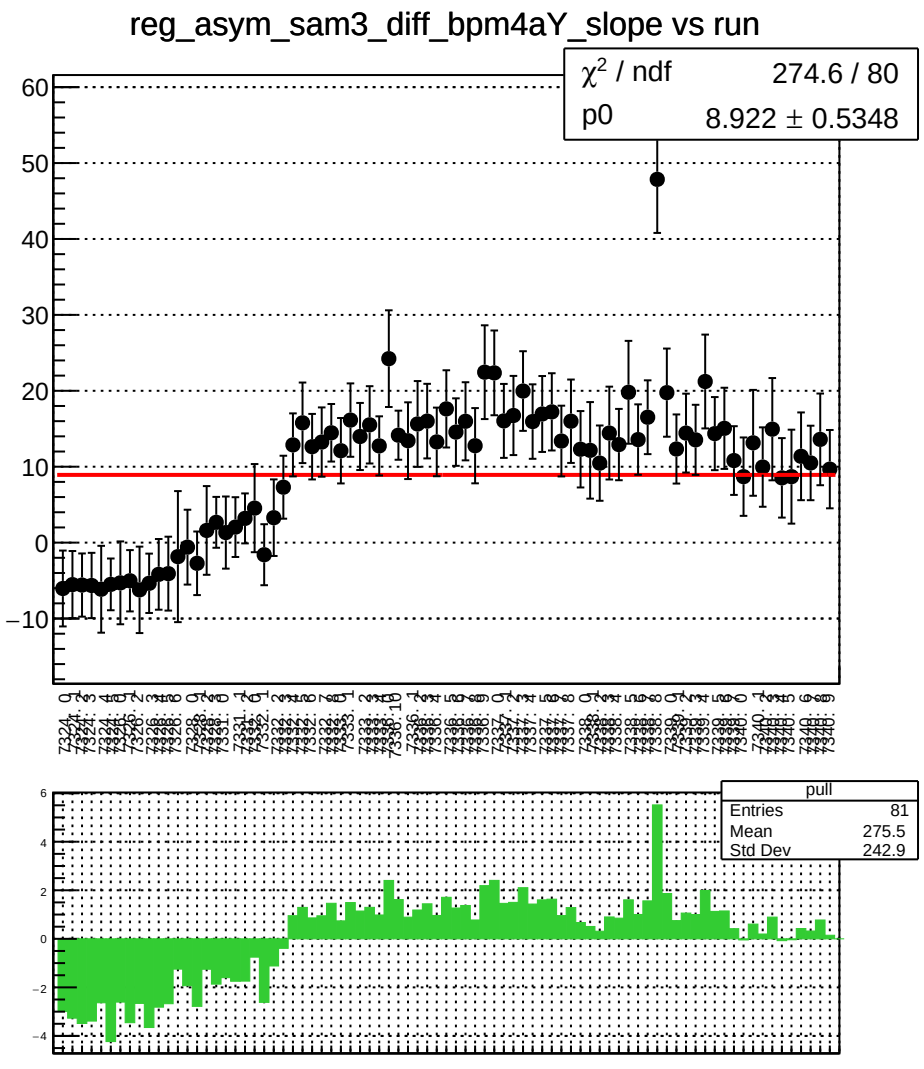

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 38.4 / 80
p0 −146.7 ± 1.512
pull
Entries 81
Mean 435.5
Std Dev 385.8
pull1D
Entries 81
Mean 0.0193
Std Dev 0.6882

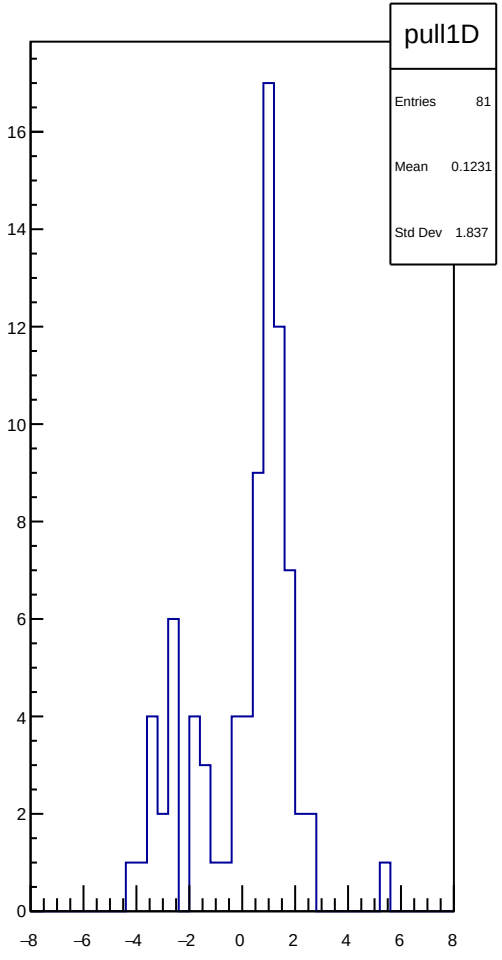

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 24.26 / 80
p0 1.908 ± 0.07467
pull
Entries 81
Mean 1138
Std Dev 1097

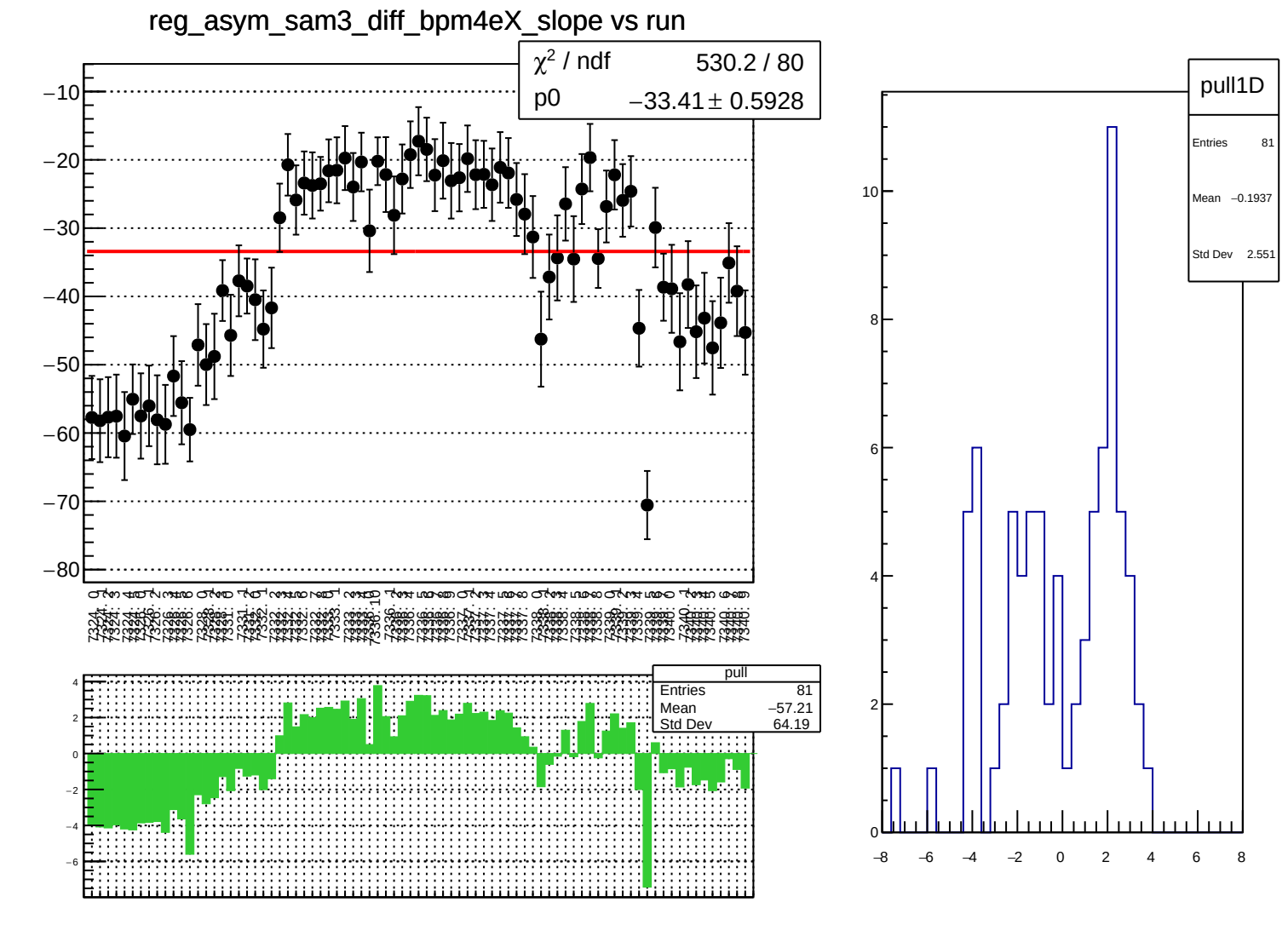

pull1D
Entries 81
Mean 0.009233
Std Dev 0.5472

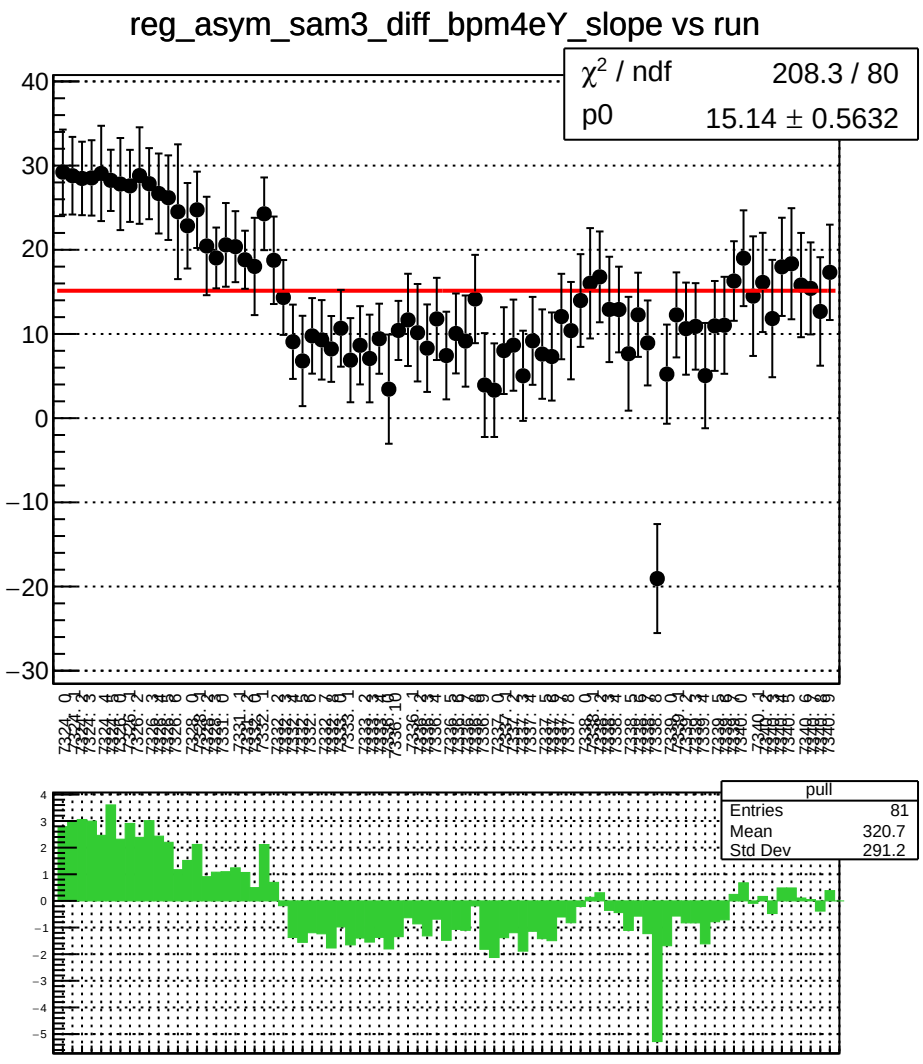

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 1006 / 80
p0 −53.72 ± 0.5973
pull
Entries 81
Mean −351.1
Std Dev 380.6

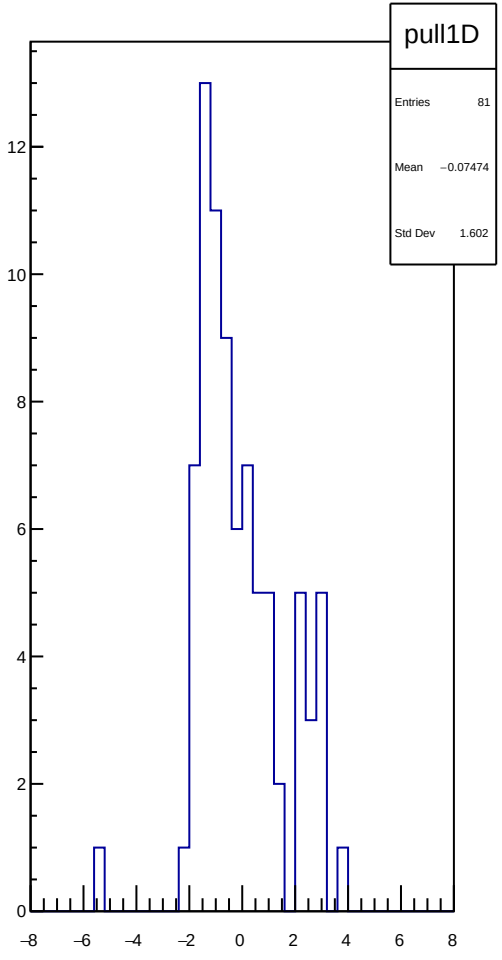

pull1D
Entries 81
Mean 0.03375
Std Dev 3.424

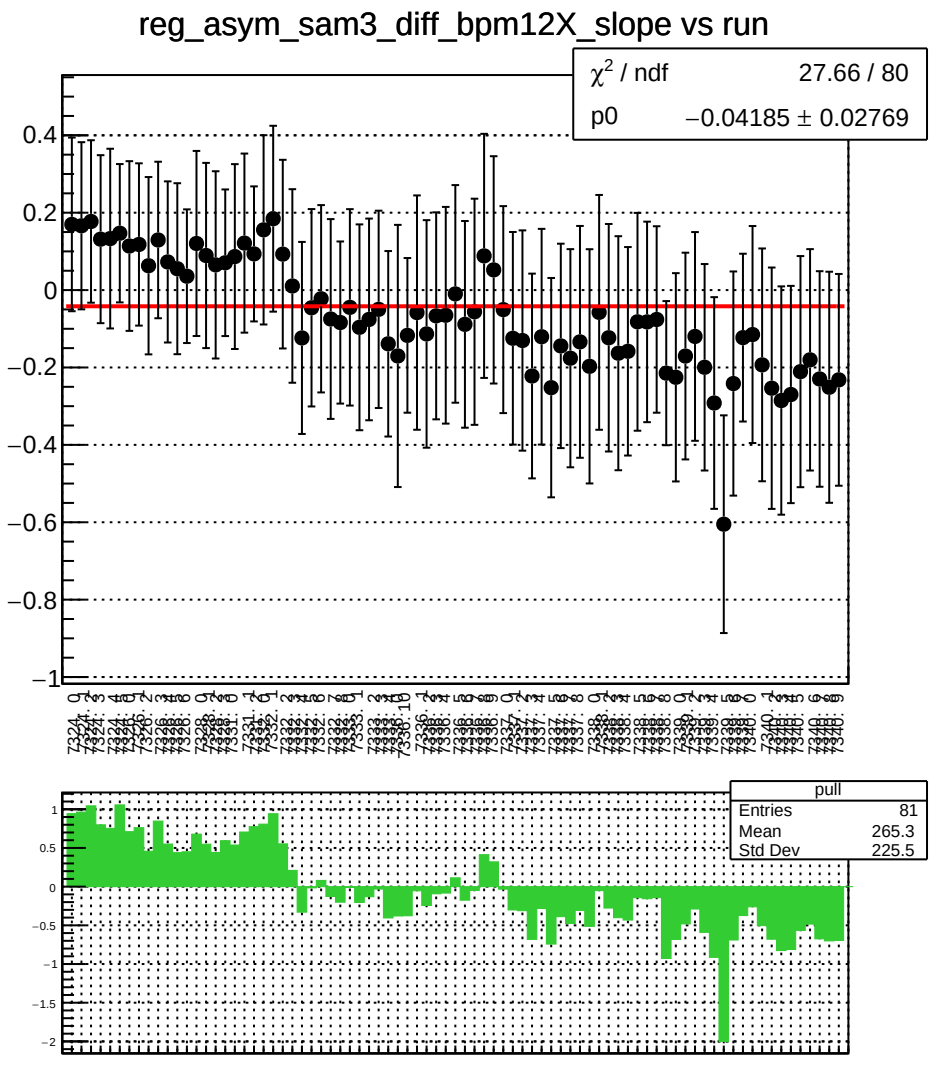

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 274.6 / 80
p0 8.922 ± 0.5348
pull
Entries 81
Mean 275.5
Std Dev 242.9

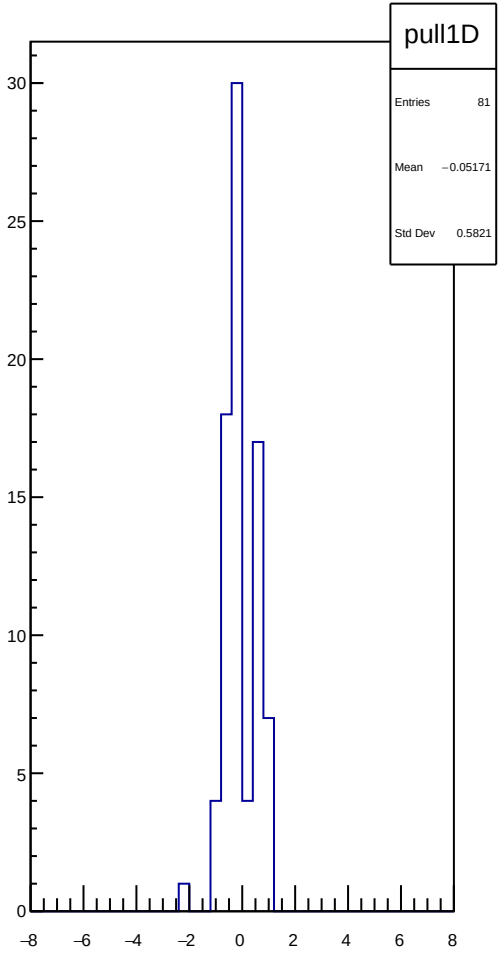

pull1D
Entries 81
Mean 0.1231
Std Dev 1.837

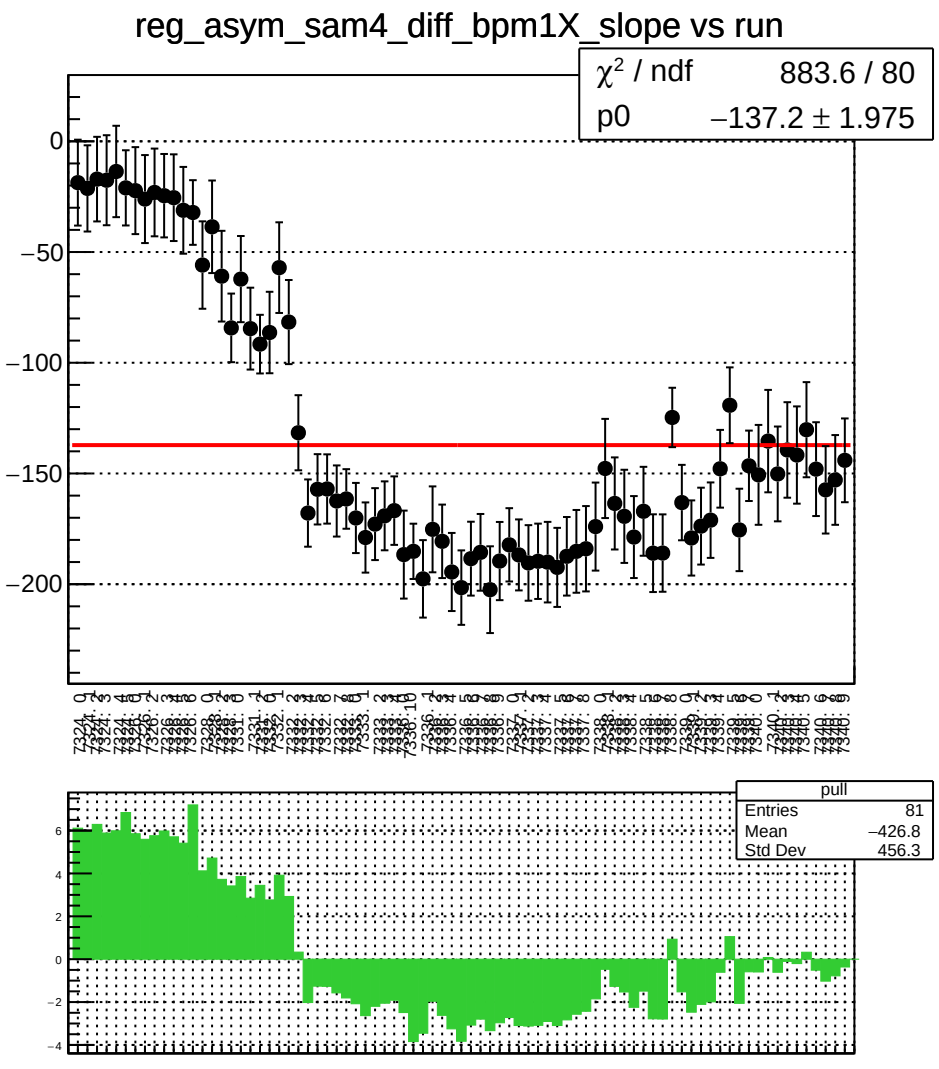

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 530.2 / 80
p0 −33.41 ± 0.5928
pull
Entries 81
Mean −57.21
Std Dev 64.19
pull1D
Entries 81
Mean −0.1937
Std Dev 2.551

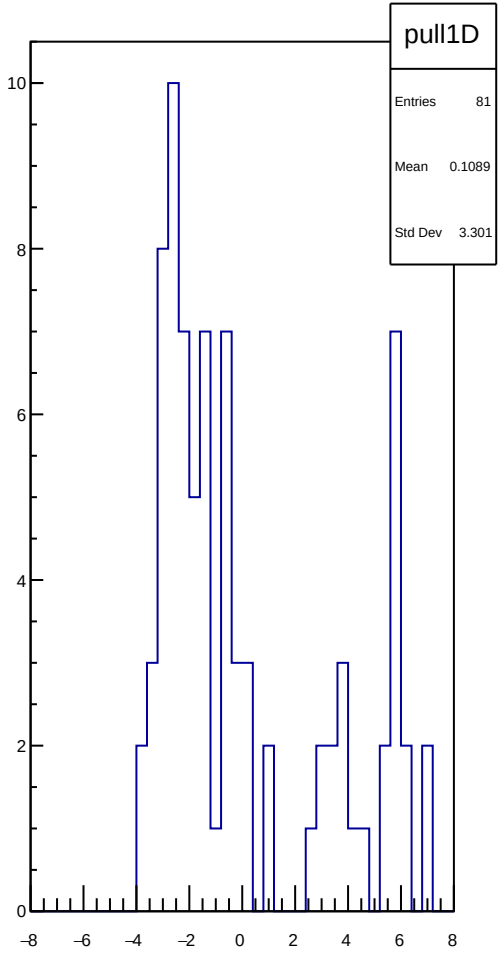

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 208.3 / 80
p0 15.14 ± 0.5632
pull
Entries 81
Mean 320.7
Std Dev 291.2

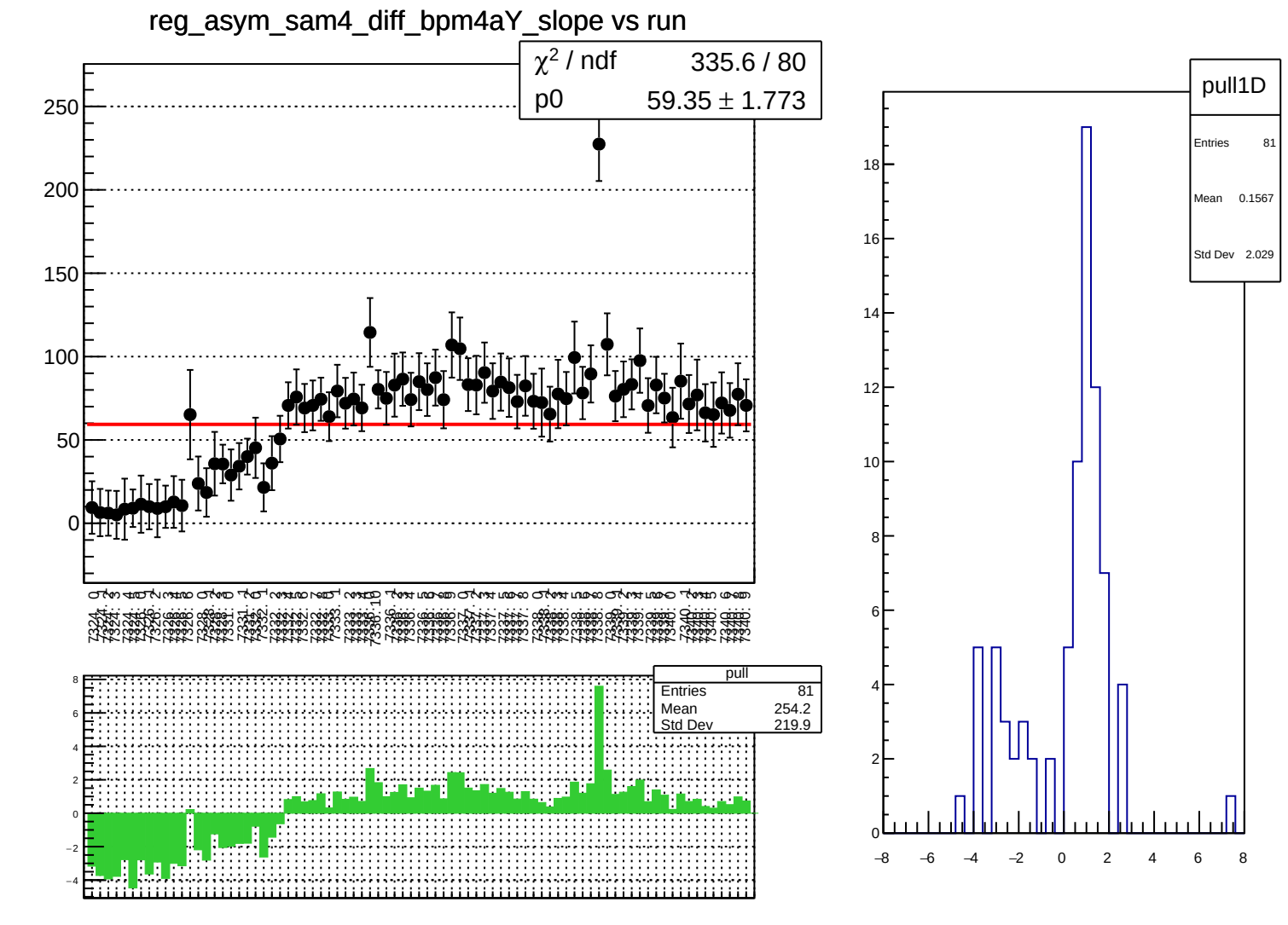

pull1D
Entries 81
Mean −0.07474
Std Dev 1.602

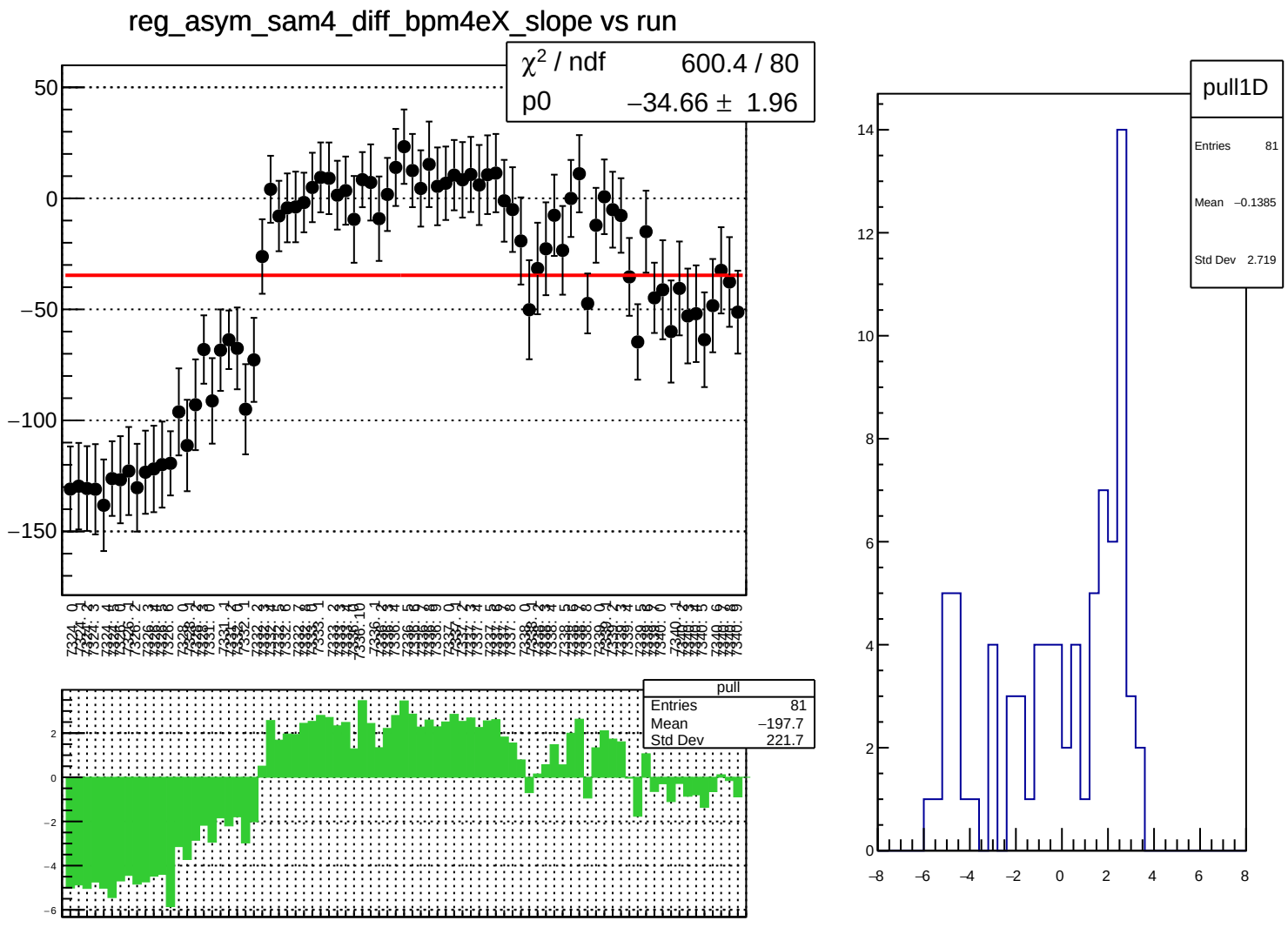

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 27.66 / 80
p0 −0.04185 ± 0.02769
pull
Entries 81
Mean 265.3
Std Dev 225.5

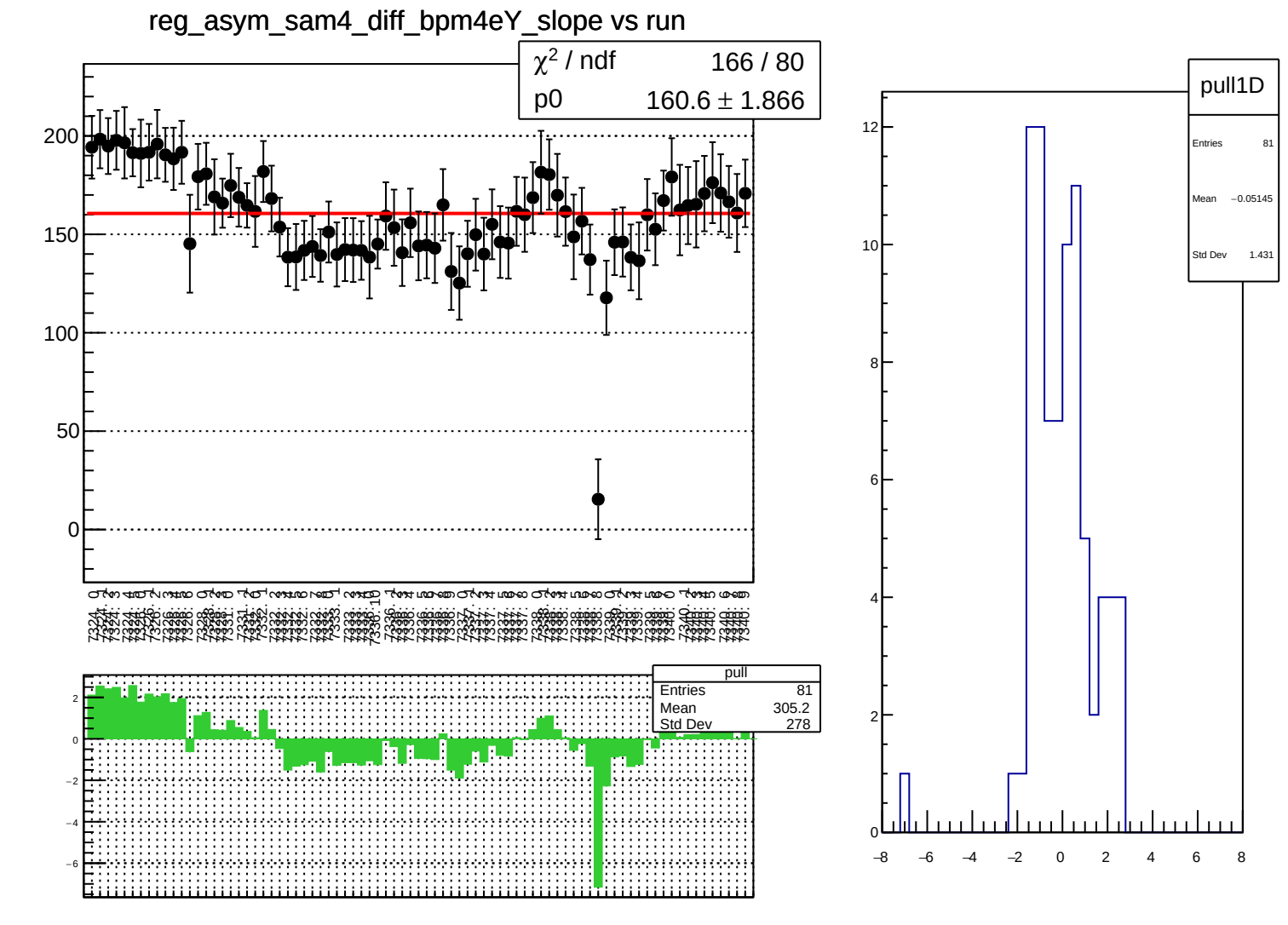

pull1D
Entries 81
Mean −0.05171
Std Dev 0.5821

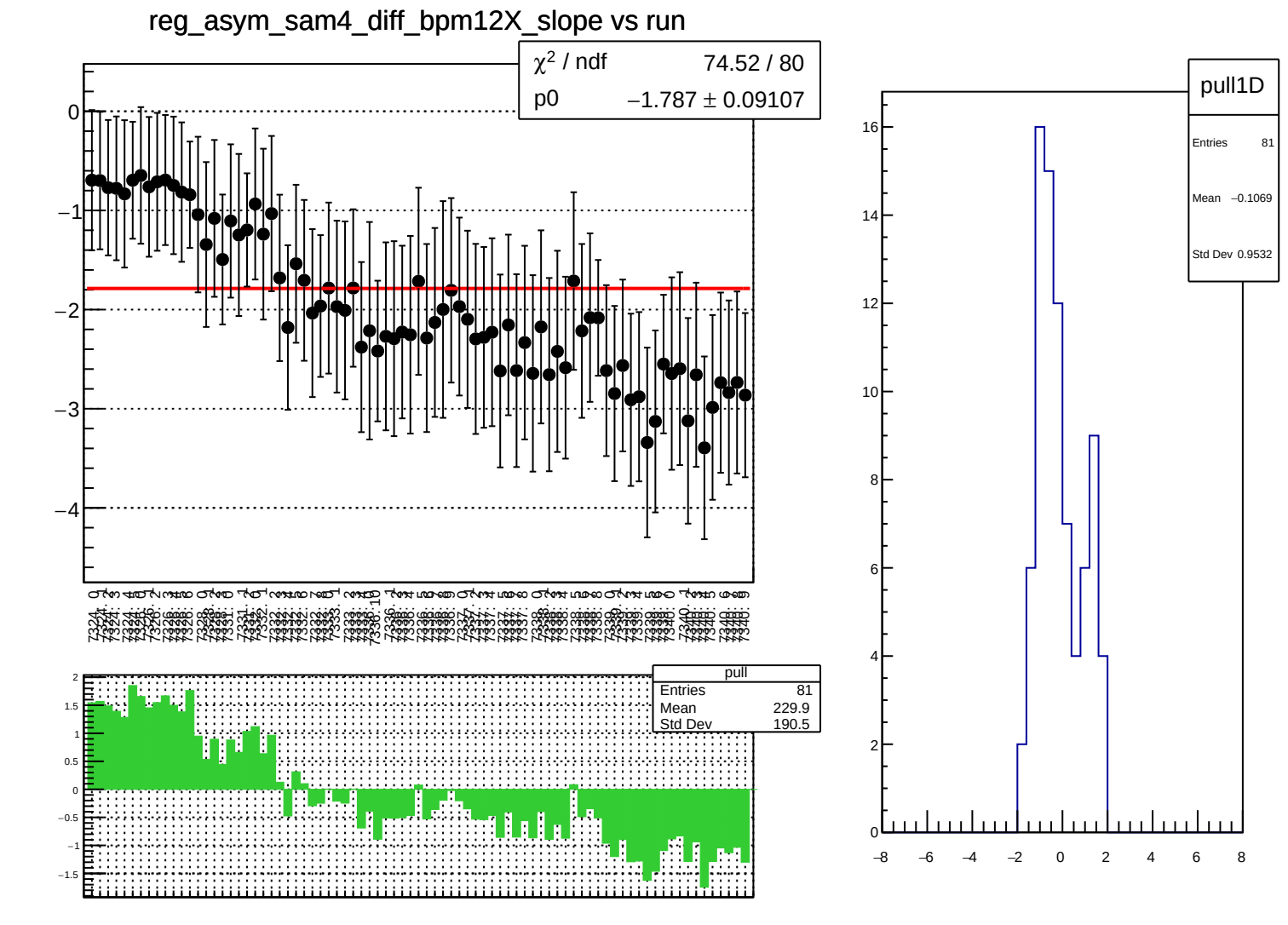

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 883.6 / 80
p0 −137.2 ± 1.975
0
−50
−100
−150
−200
pull
Entries 81
Mean −426.8
Std Dev 456.3
6
4
2
0
−2
−4

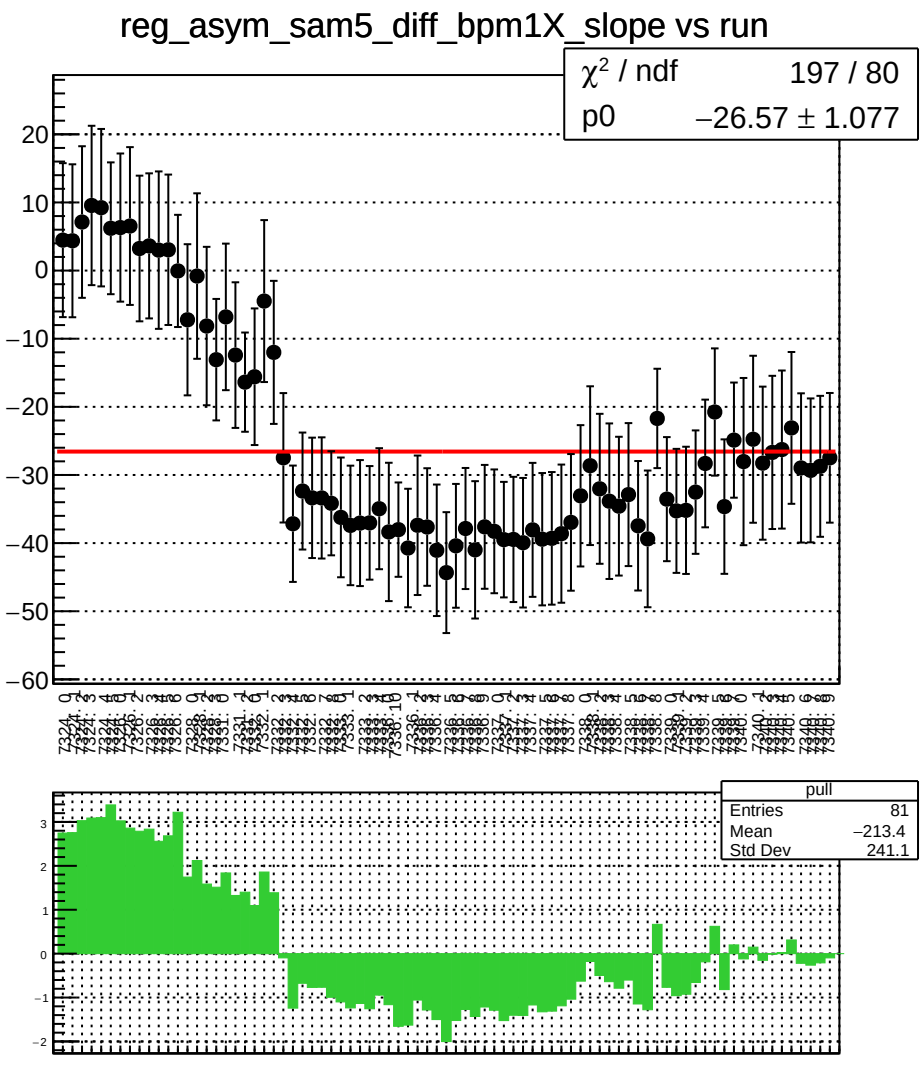

pull1D
Entries 81
Mean 0.1089
Std Dev 3.301
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

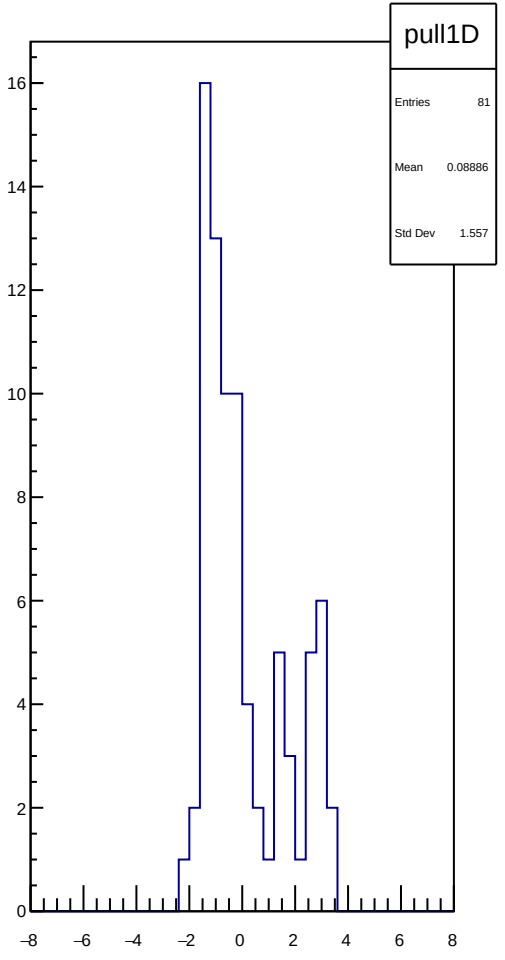

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 335.6 / 80
p0 59.35 ± 1.773
pull
Entries 81
Mean 254.2
Std Dev 219.9
pull1D
Entries 81
Mean 0.1567
Std Dev 2.029

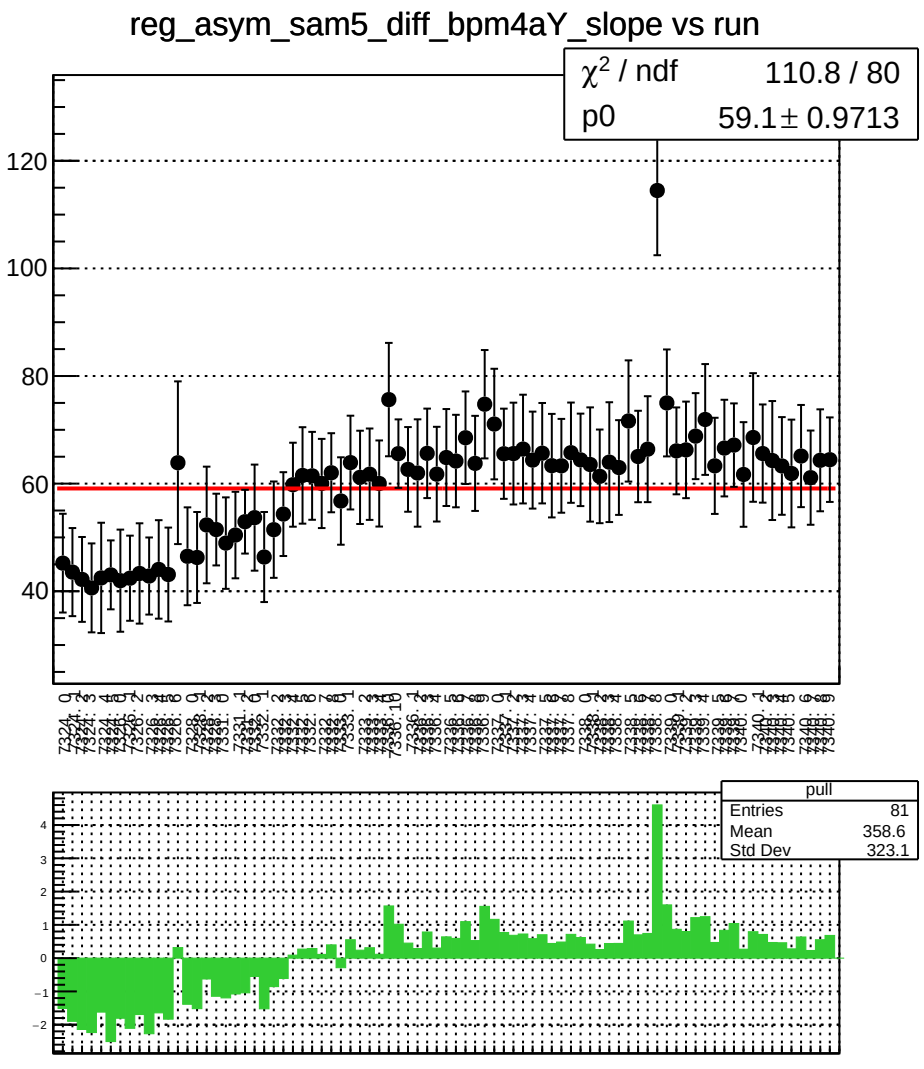

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 600.4 / 80
p0 −34.66 ± 1.96
pull
Entries 81
Mean −197.7
Std Dev 221.7
pull1D
Entries 81
Mean −0.1385
Std Dev 2.719

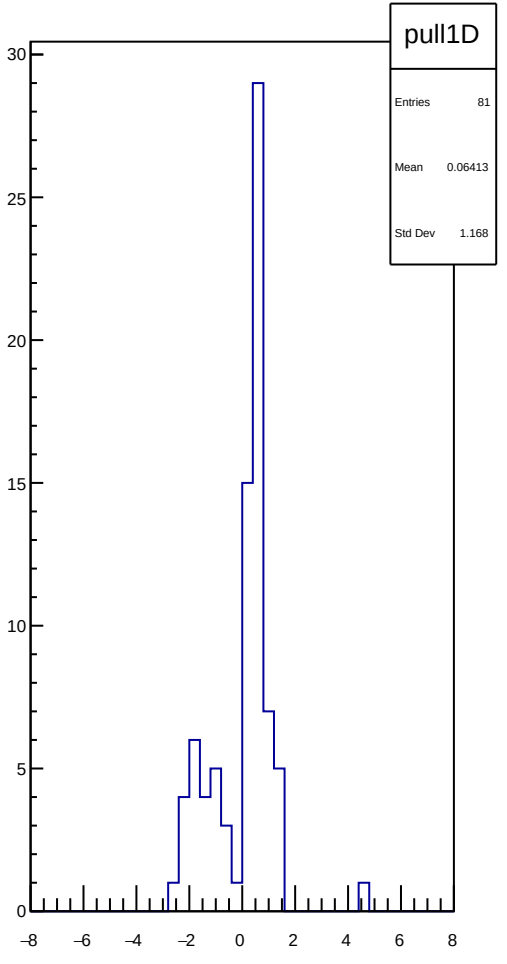

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 166 / 80
p0 160.6 ± 1.866
200
150
100
50
0
pull
Entries 81
Mean 305.2
Std Dev 278
2
0
−2
−4
−6
pull1D
Entries 81
Mean −0.05145
Std Dev 1.431
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

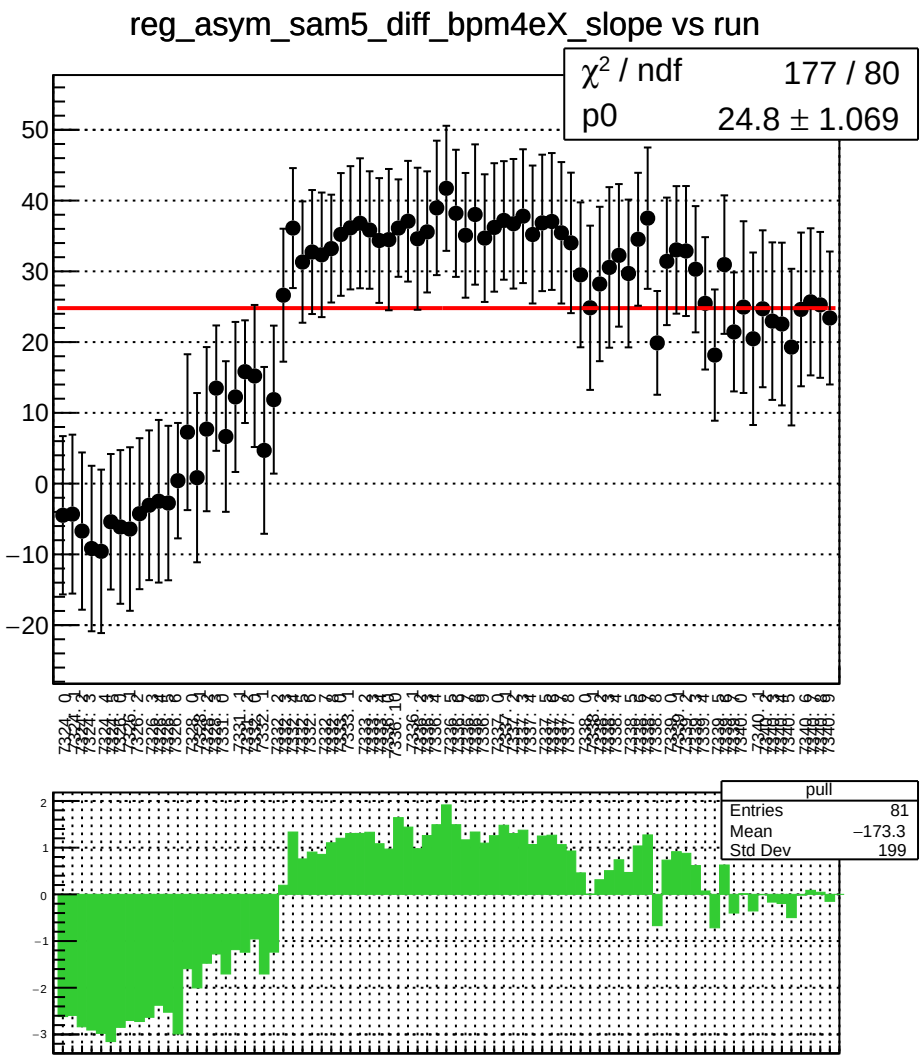

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 74.52 / 80
p0 −1.787 ± 0.09107
pull
Entries 81
Mean 229.9
Std Dev 190.5
pull1D
Entries 81
Mean −0.1069
Std Dev 0.9532

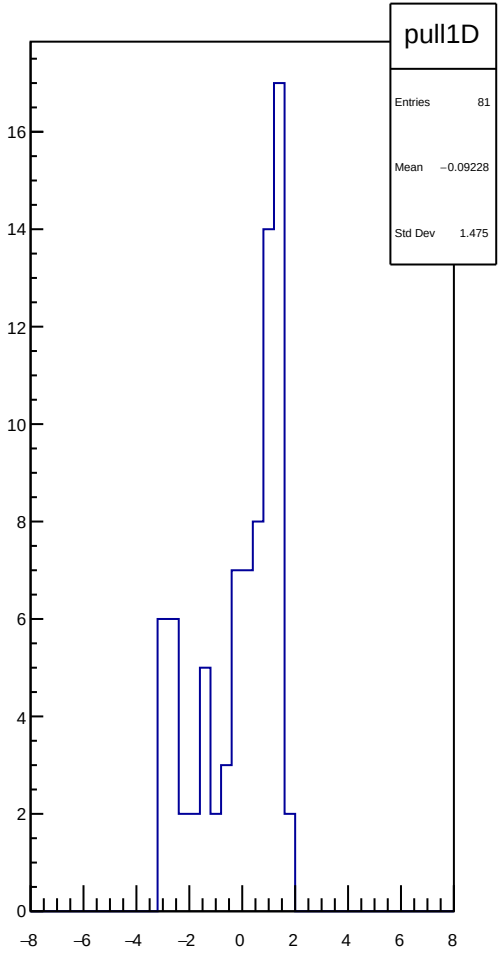

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 197 / 80
p0 −26.57 ± 1.077
pull
Entries 81
Mean −213.4
Std Dev 241.1

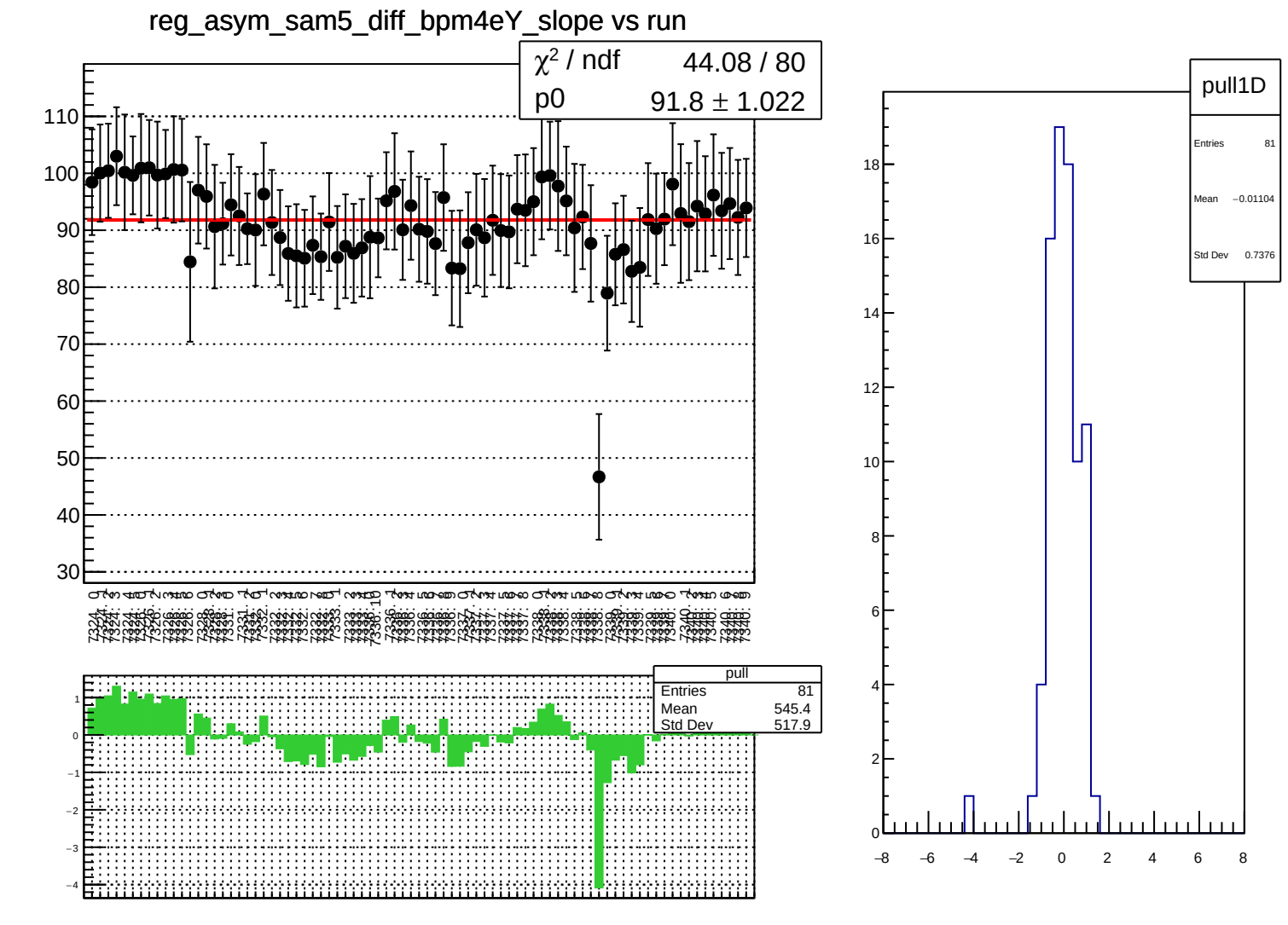

pull1D
Entries 81
Mean 0.08886
Std Dev 1.557

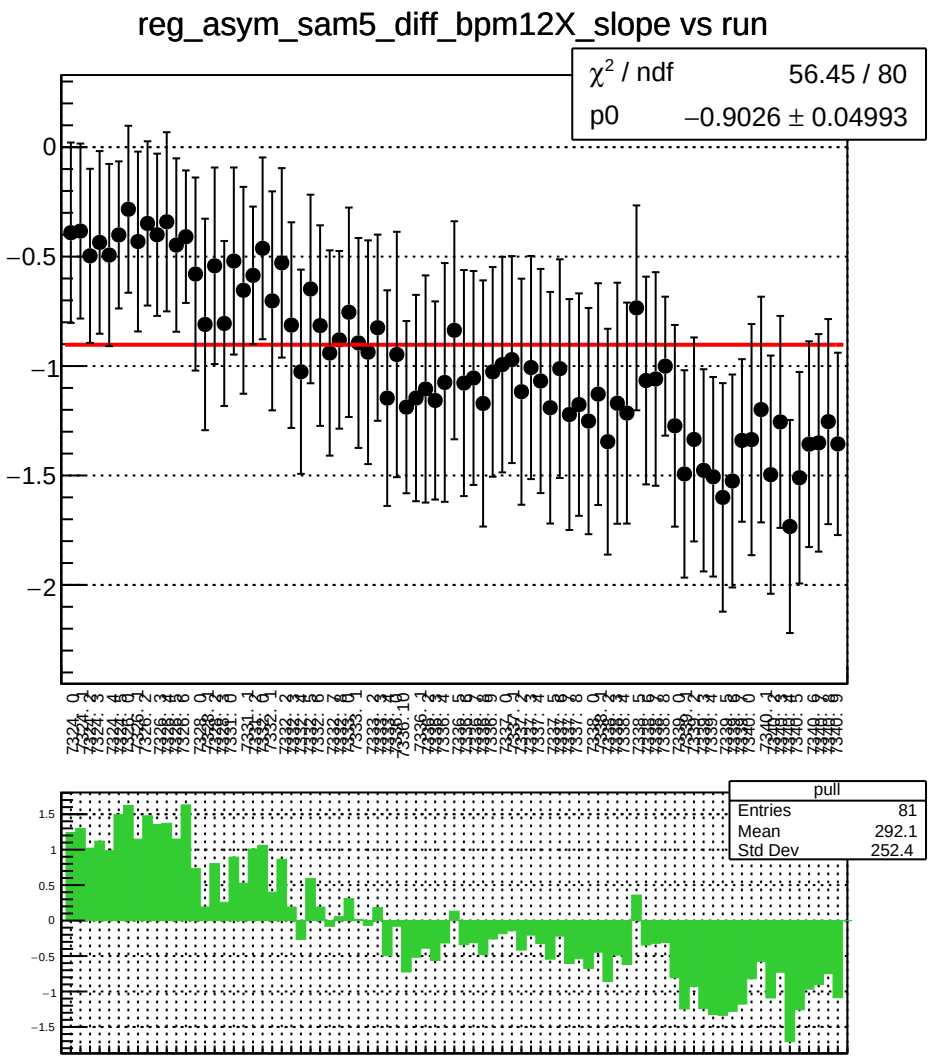

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 110.8 / 80
p0 59.1 ± 0.9713
120
100
80
60
40
pull
Entries 81
Mean 358.6
Std Dev 323.1
4
3
2
1
0
−1
−2

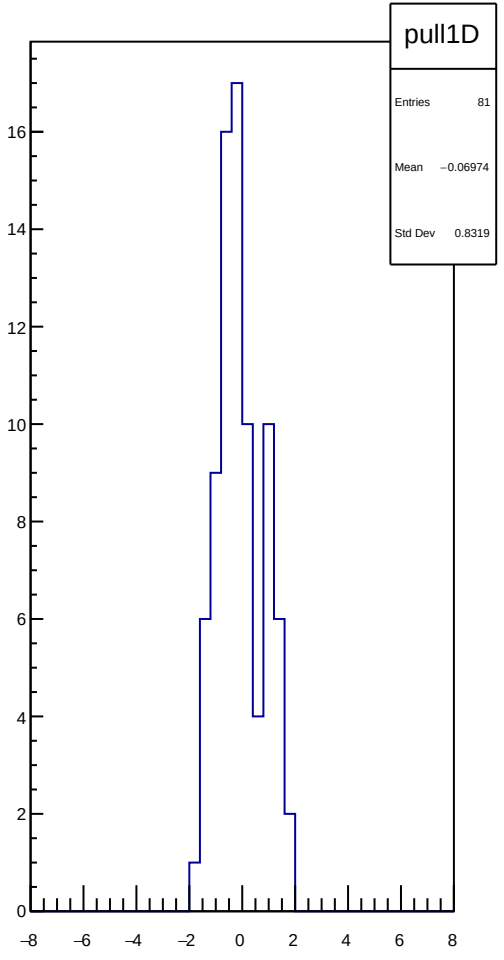

pull1D
Entries 81
Mean 0.06413
Std Dev 1.168
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

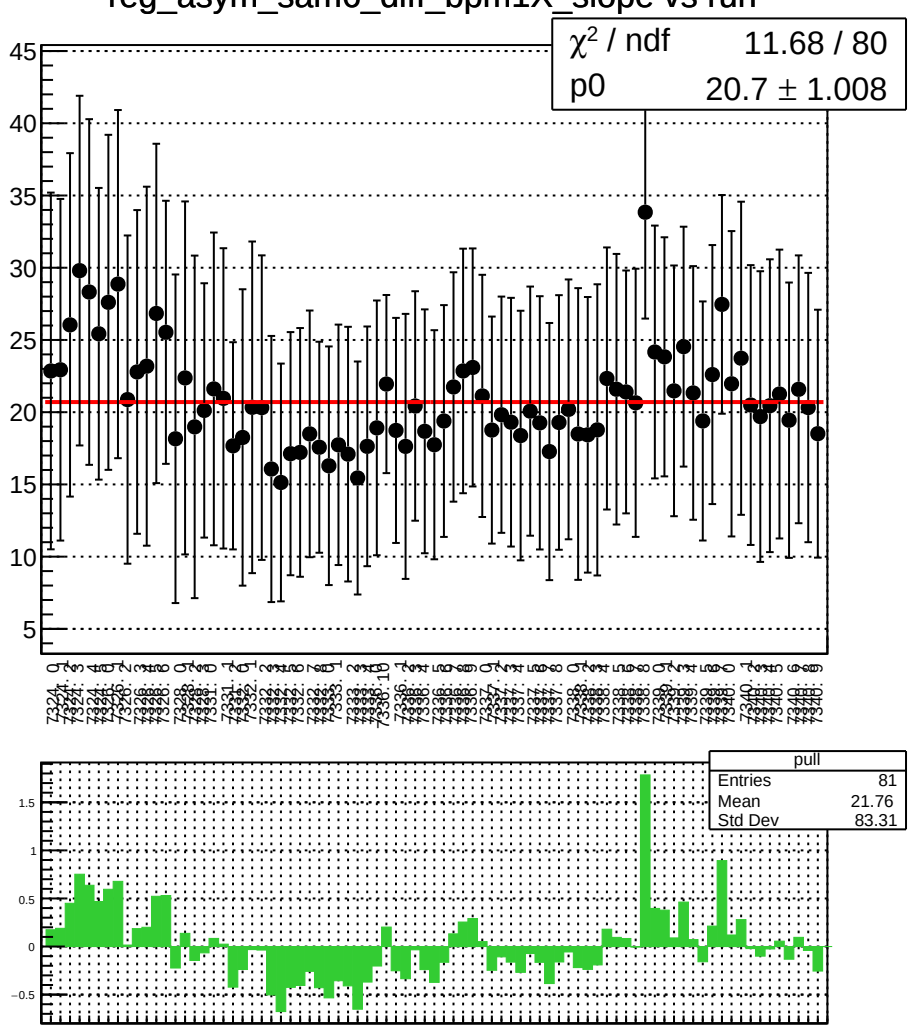

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 177 / 80
p0 24.8 ± 1.069
pull
Entries 81
Mean −173.3
Std Dev 199

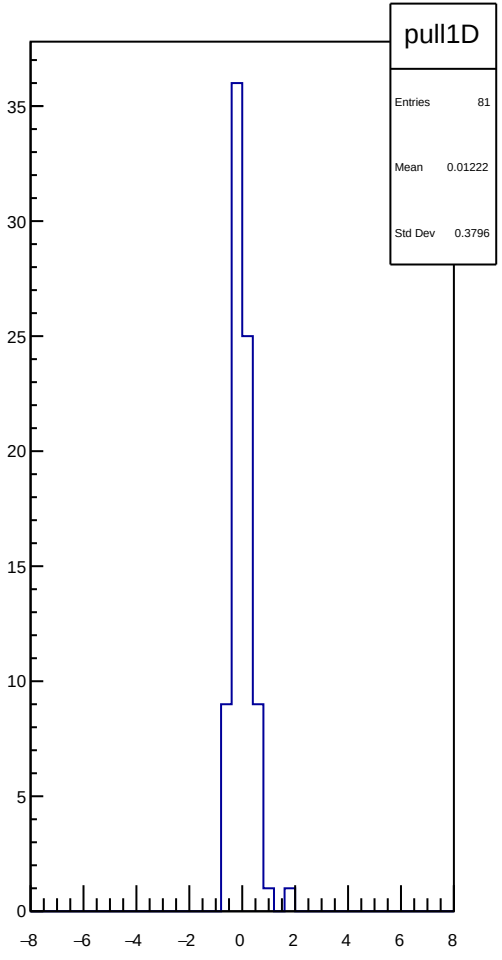

pull1D
Entries 81
Mean −0.09228
Std Dev 1.475

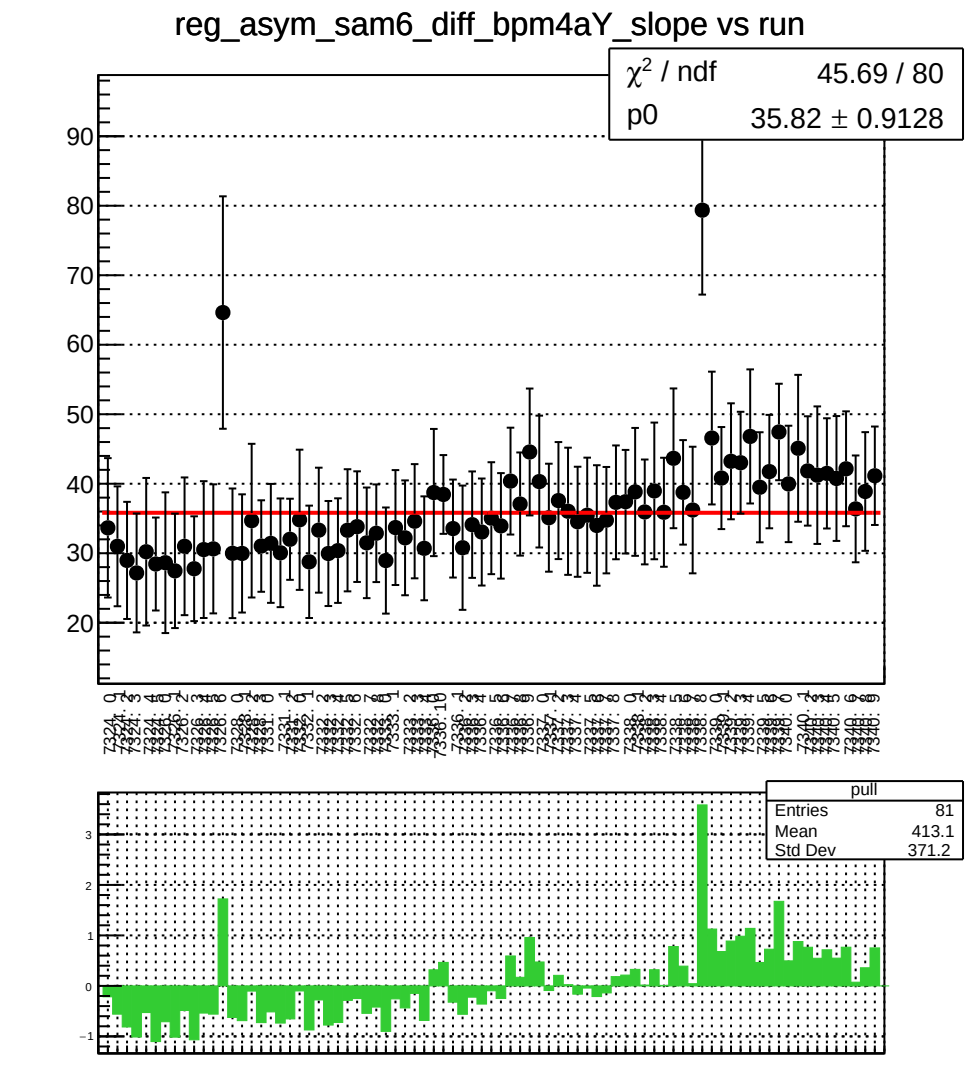

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 44.08 / 80
p0 91.8 ± 1.022
pull
Entries 81
Mean 545.4
Std Dev 517.9
pull1D
Entries 81
Mean −0.01104
Std Dev 0.7376

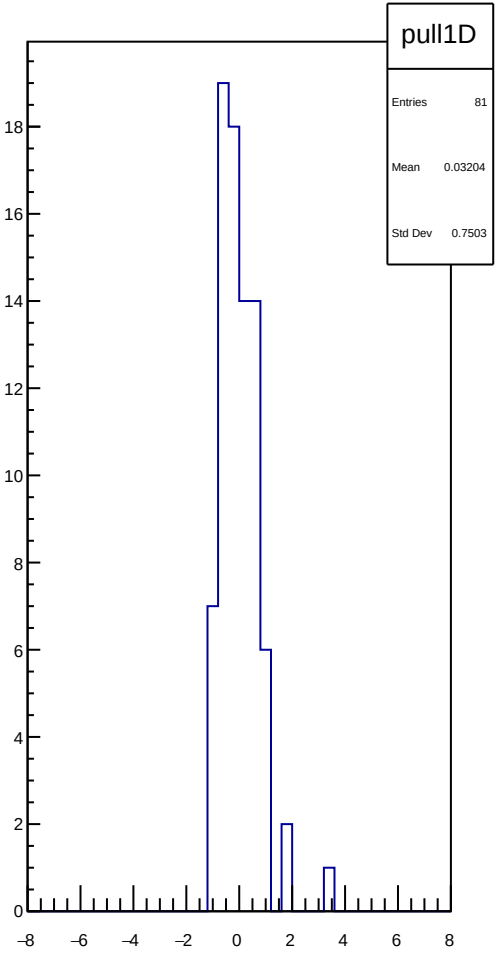

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 56.45 / 80
p0 −0.9026 ± 0.04993
pull
Entries 81
Mean 292.1
Std Dev 252.4

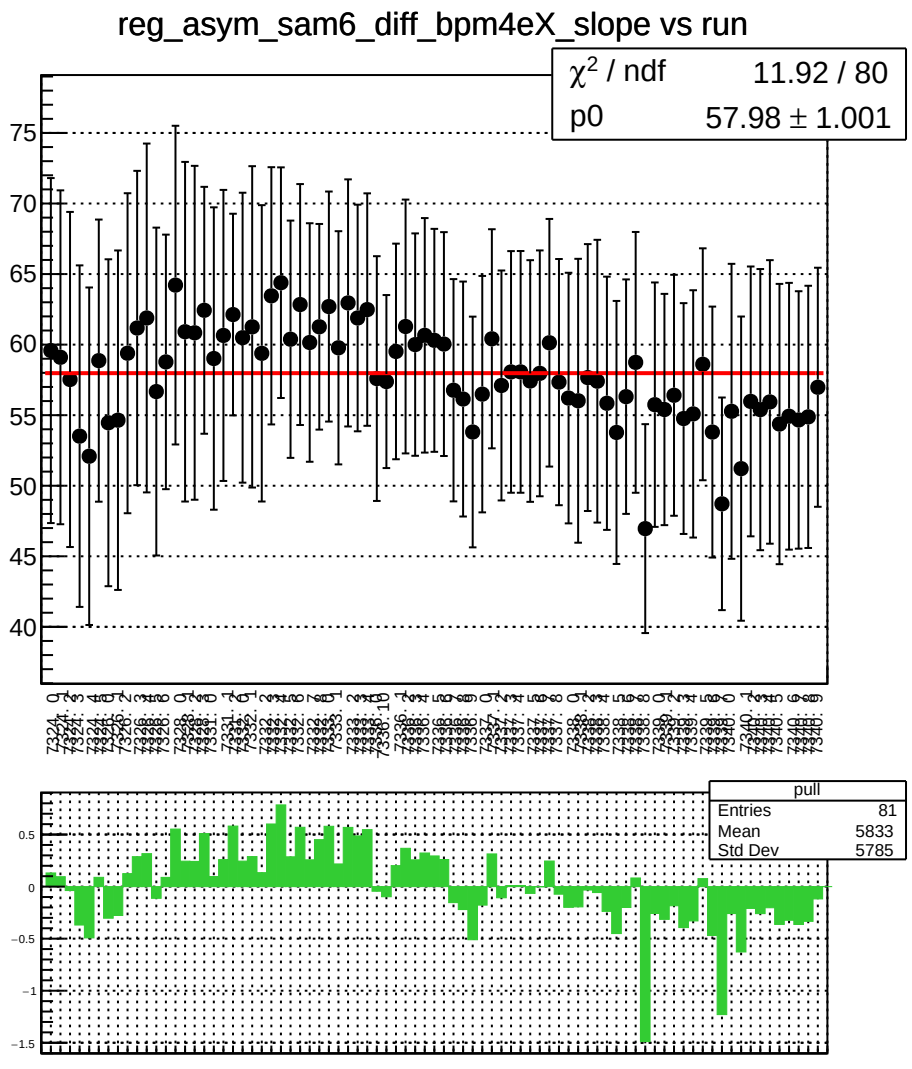

pull1D
Entries 81
Mean −0.06974
Std Dev 0.8319

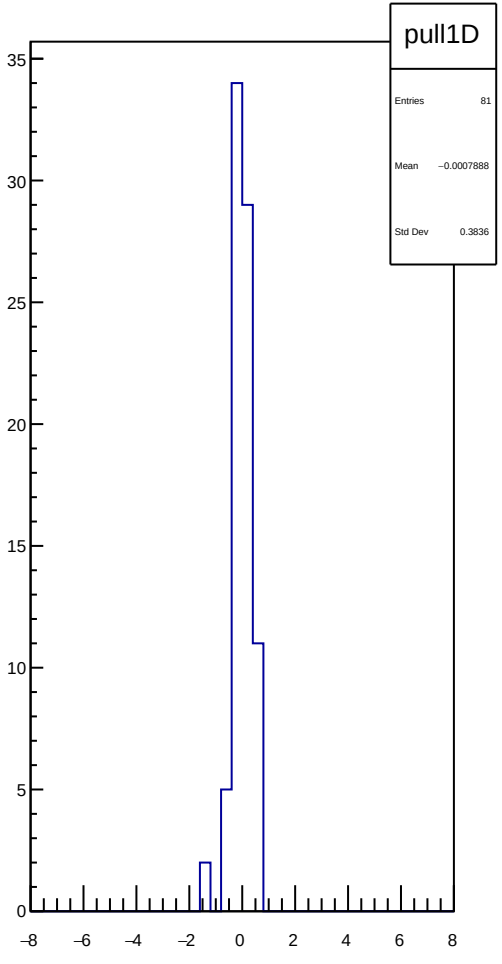

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 11.68 / 80
p0 20.7 ± 1.008
pull
Entries 81
Mean 21.76
Std Dev 83.31

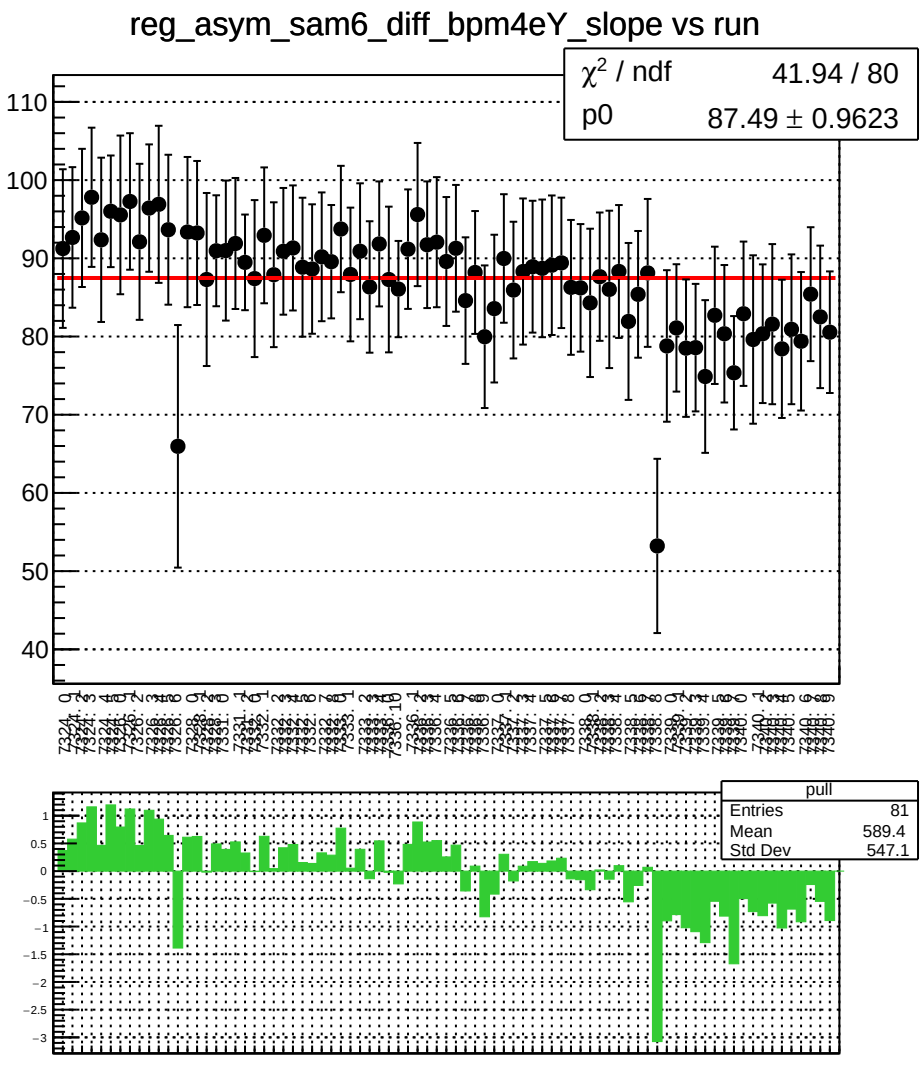

pull1D
Entries 81
Mean 0.01222
Std Dev 0.3796

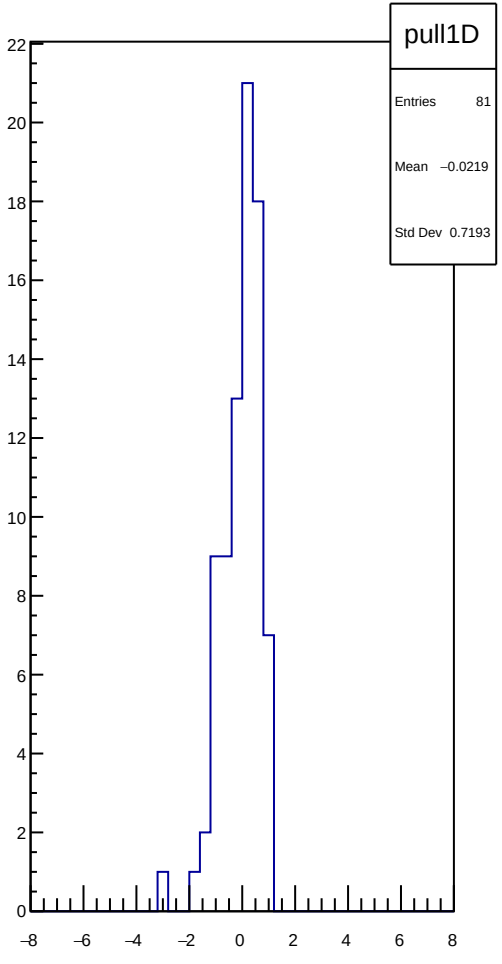

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 45.69 / 80
p0 35.82 ± 0.9128
pull
Entries 81
Mean 413.1
Std Dev 371.2

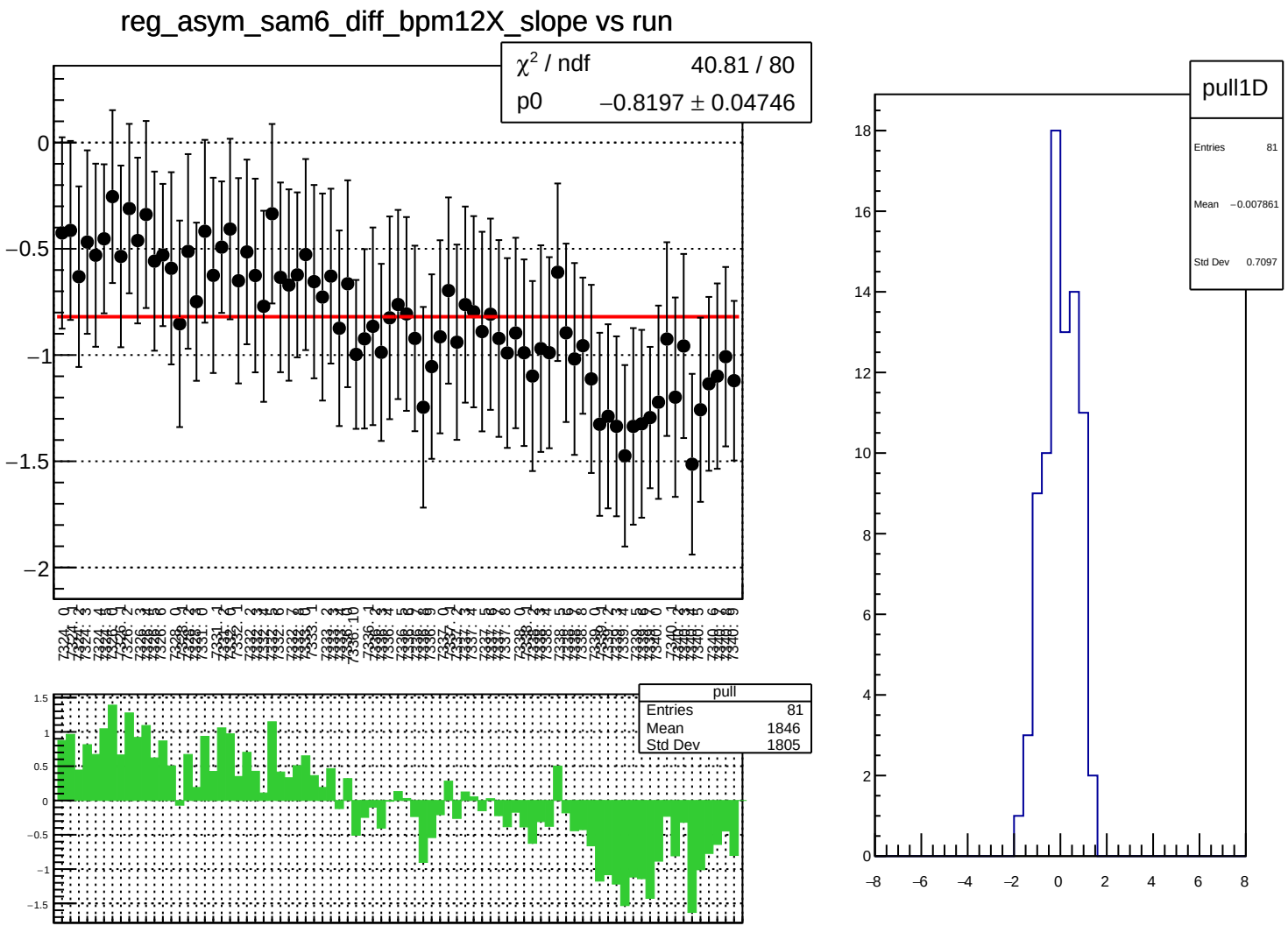

pull1D
Entries 81
Mean 0.03204
Std Dev 0.7503

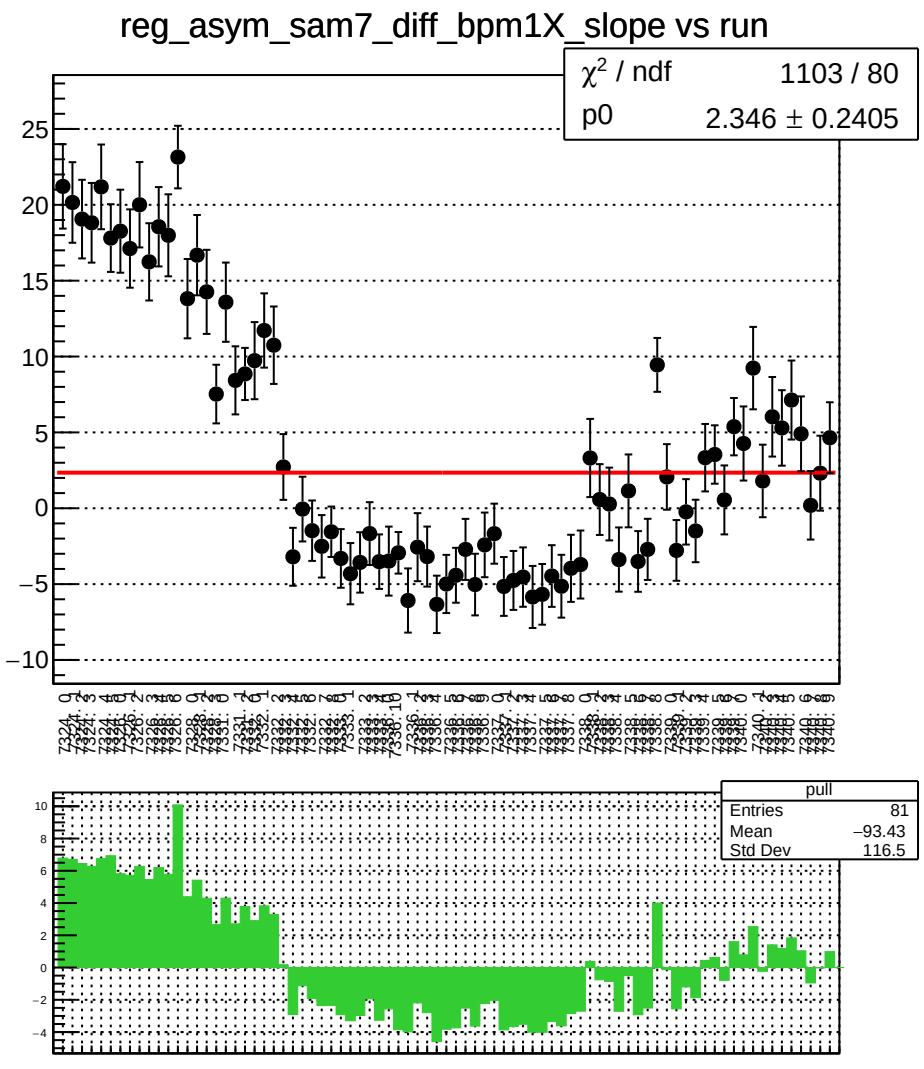

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 11.92 / 80
p0 57.98 ± 1.001
pull
Entries 81
Mean 5833
Std Dev 5785

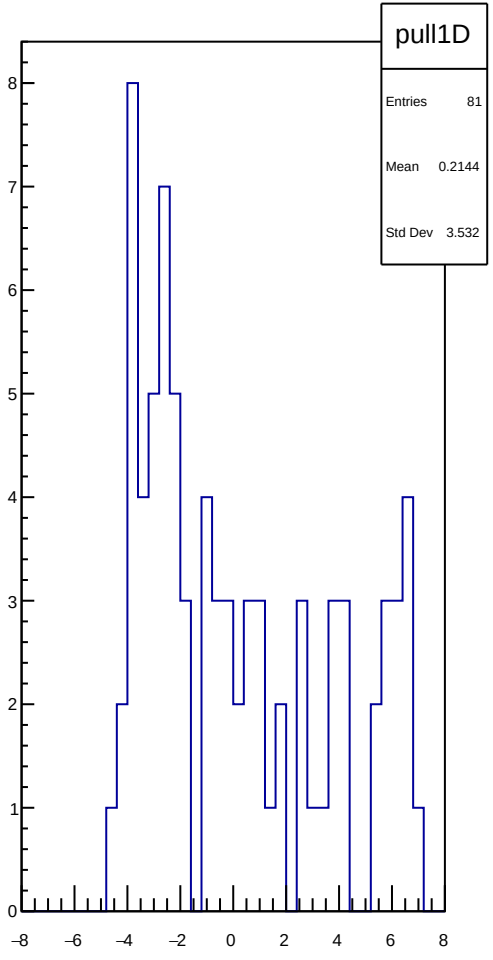

pull1D
Entries 81
Mean −0.0007888
Std Dev 0.3836

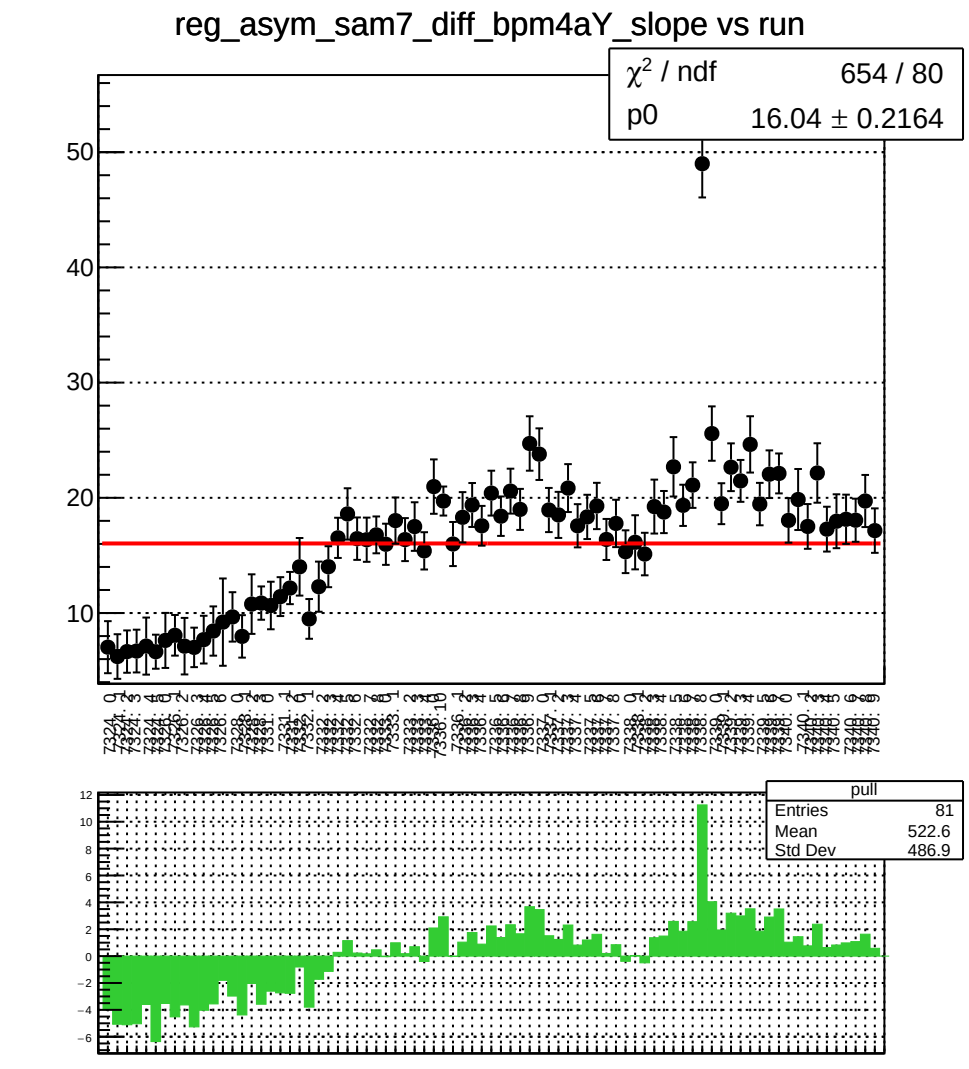

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 41.94 / 80
p0 87.49 ± 0.9623
pull
Entries 81
Mean 589.4
Std Dev 547.1

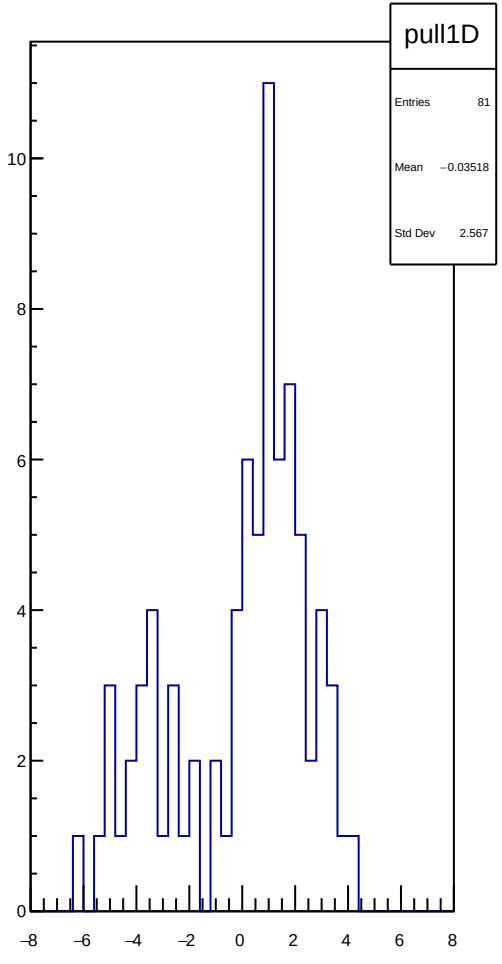

pull1D
Entries 81
Mean −0.0219
Std Dev 0.7193

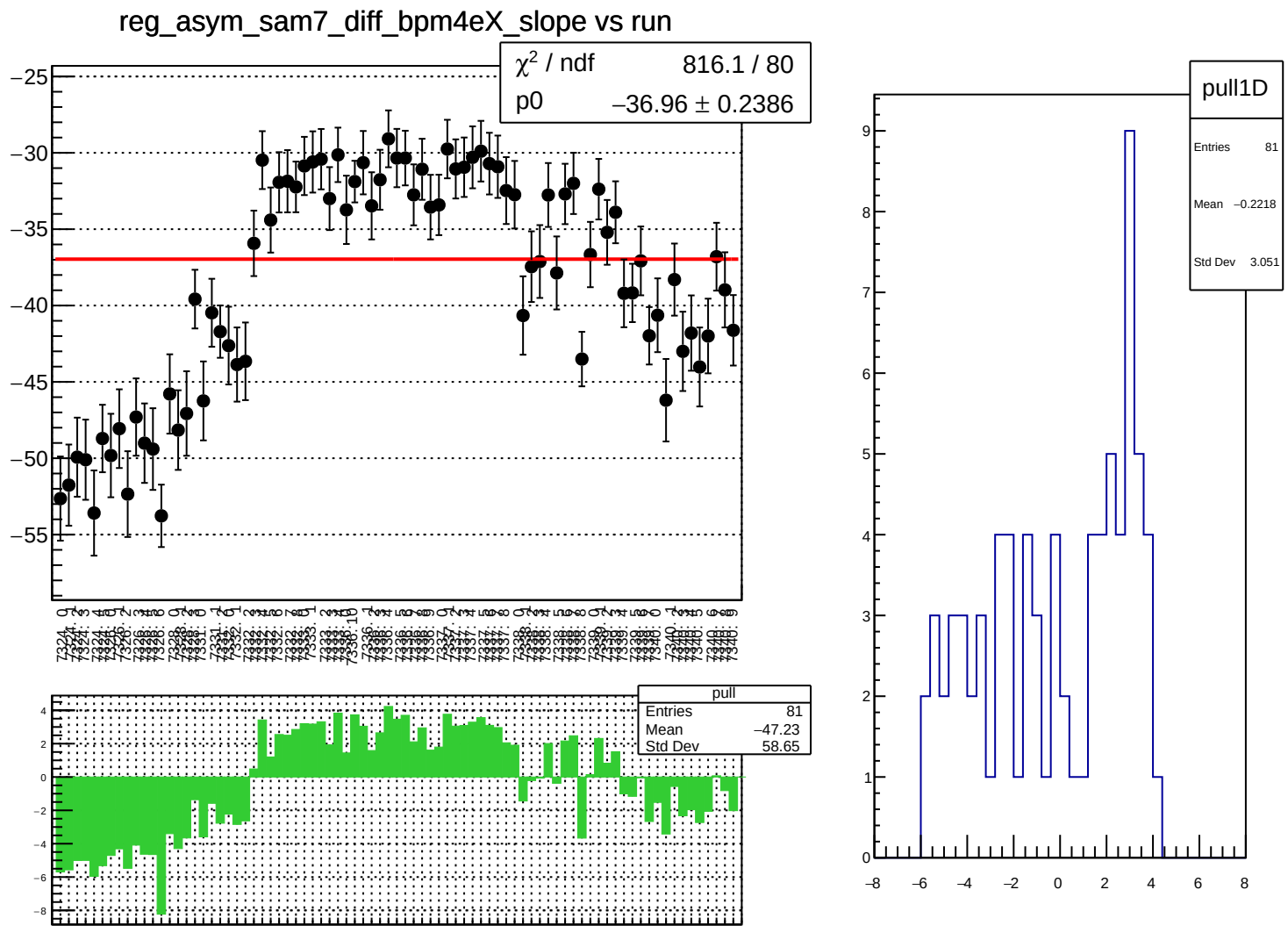

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 40.81 / 80
p0 −0.8197 ± 0.04746
pull
Entries 81
Mean 1846
Std Dev 1805
pull1D
Entries 81
Mean −0.007861
Std Dev 0.7097

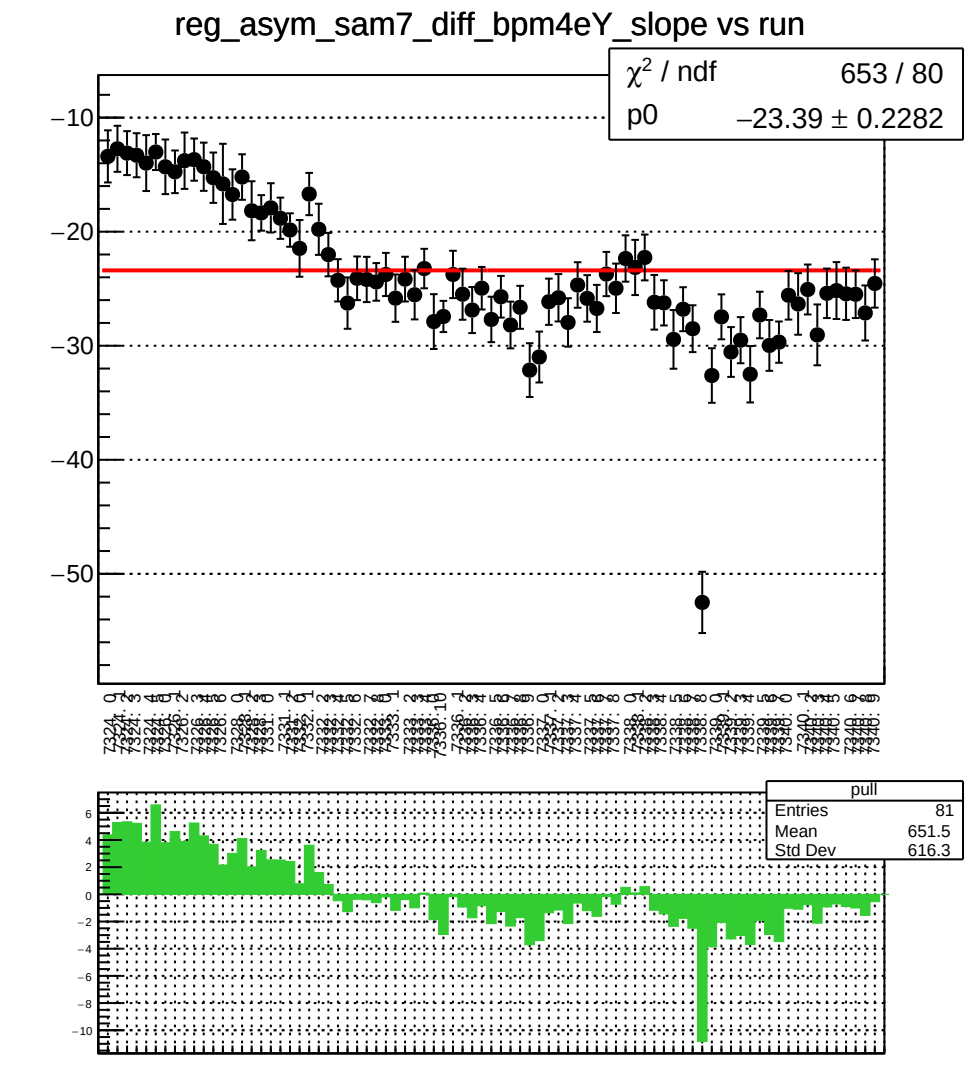

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 1103 / 80
p0 2.346 ± 0.2405
pull
Entries 81
Mean −93.43
Std Dev 116.5

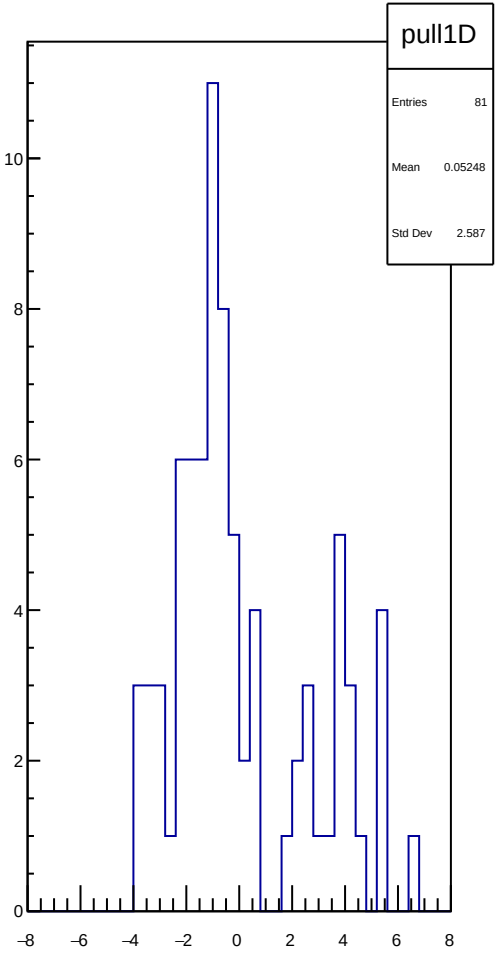

pull1D
Entries 81
Mean 0.2144
Std Dev 3.532

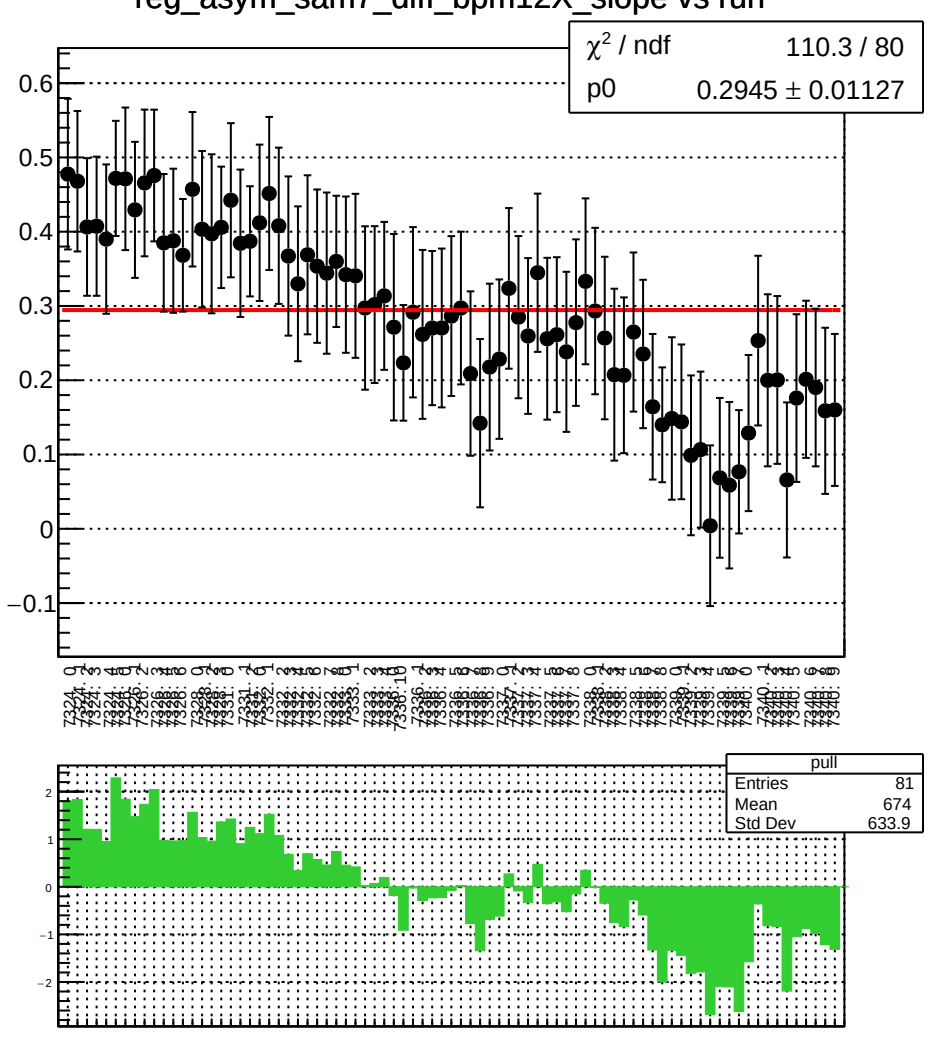

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 654 / 80
p0 16.04 ± 0.2164
pull
Entries 81
Mean 522.6
Std Dev 486.9

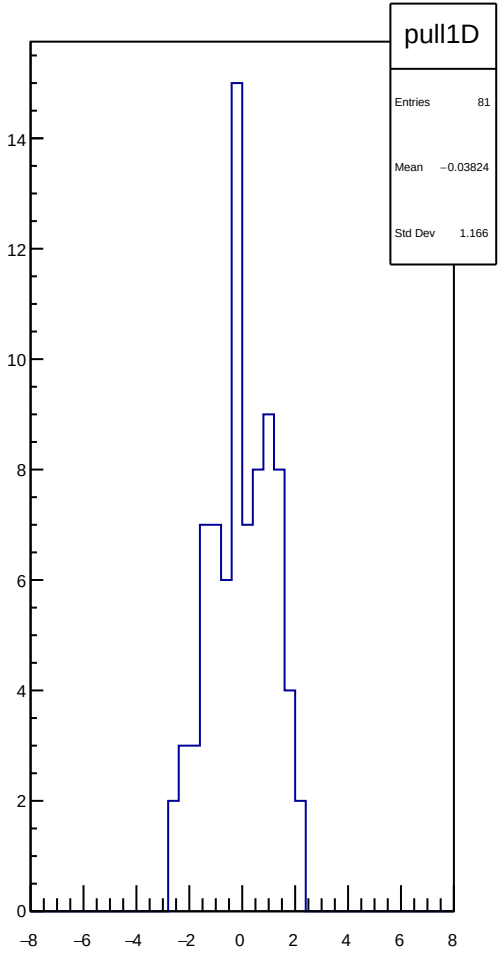

pull1D
Entries 81
Mean −0.03518
Std Dev 2.567

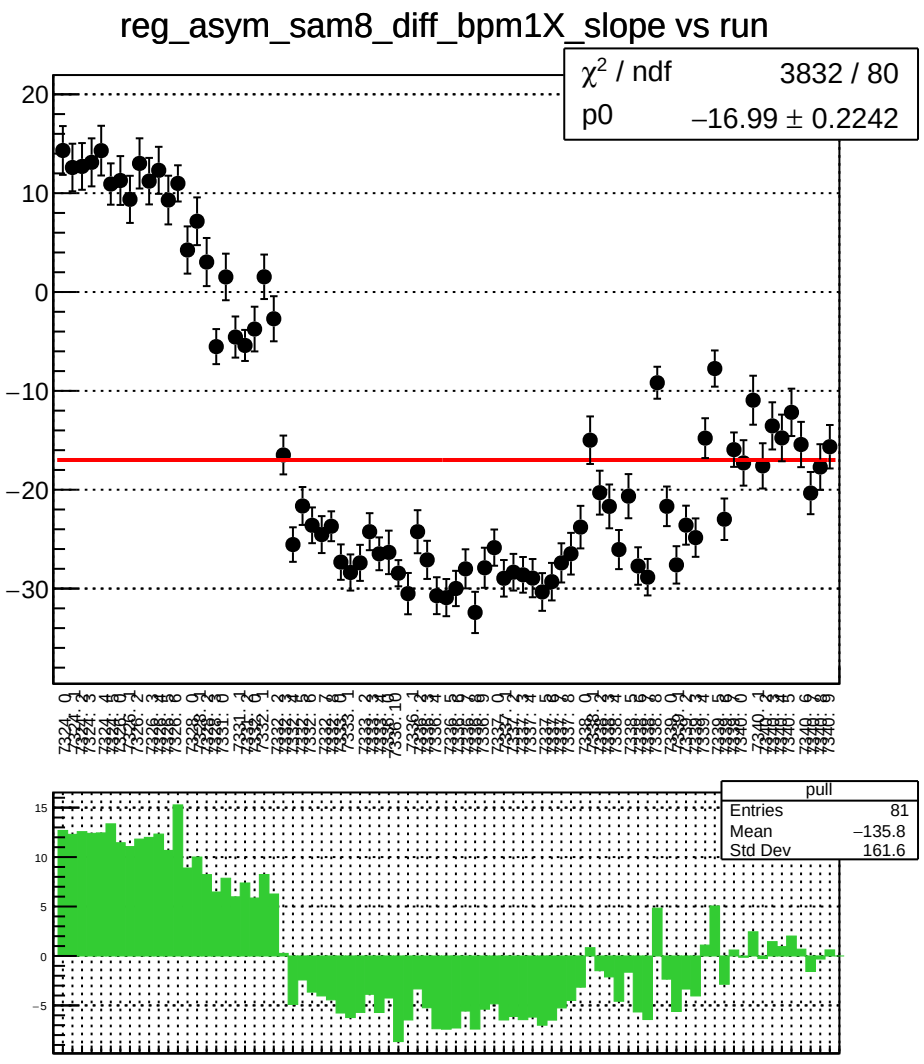

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 816.1 / 80
p0 −36.96 ± 0.2386
pull
Entries 81
Mean −47.23
Std Dev 58.65
pull1D
Entries 81
Mean −0.2218
Std Dev 3.051

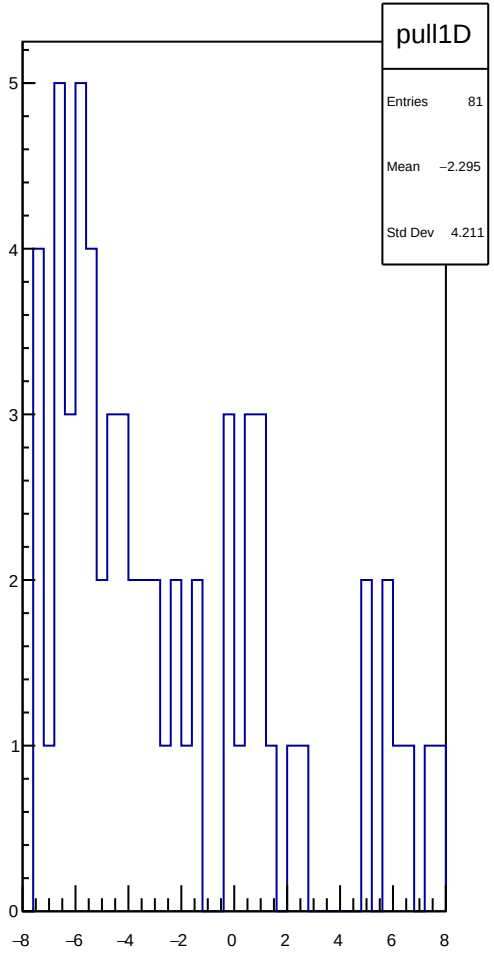

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 653 / 80
p0 −23.39 ± 0.2282
pull
Entries 81
Mean 651.5
Std Dev 616.3

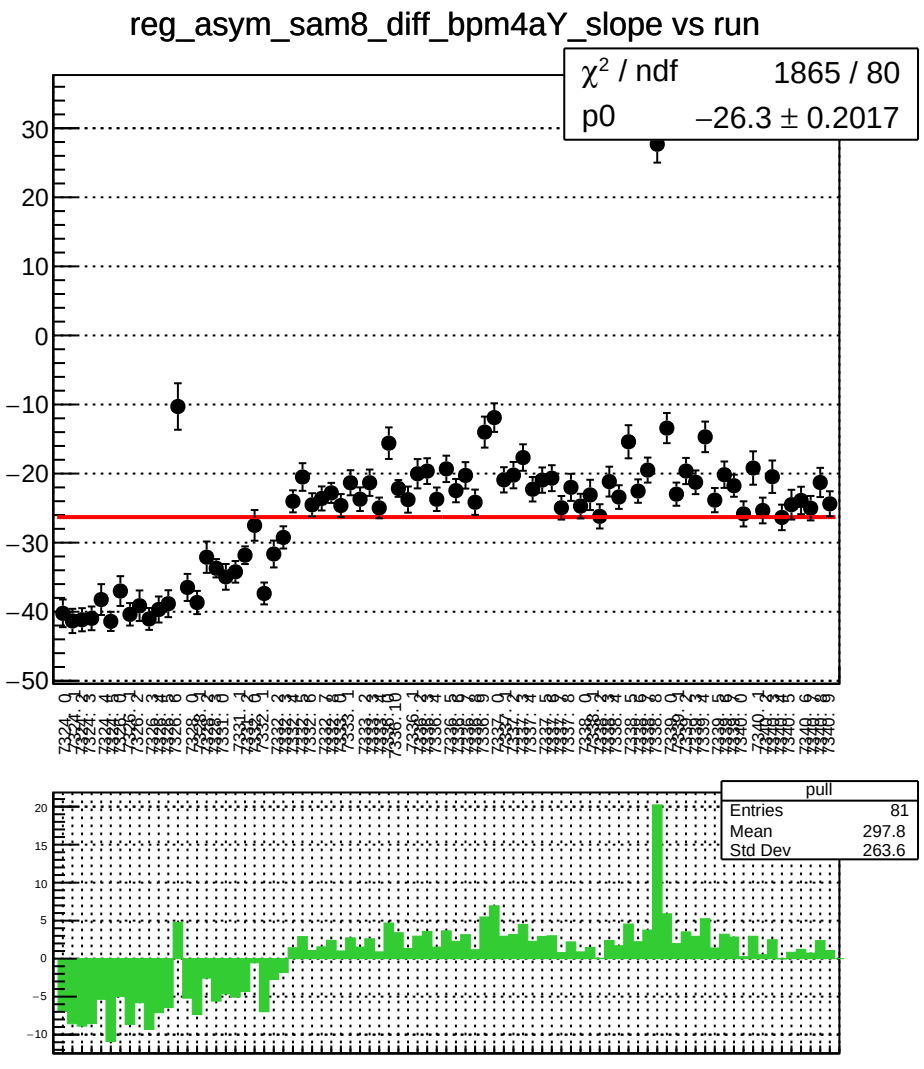

pull1D
Entries 81
Mean 0.05248
Std Dev 2.587

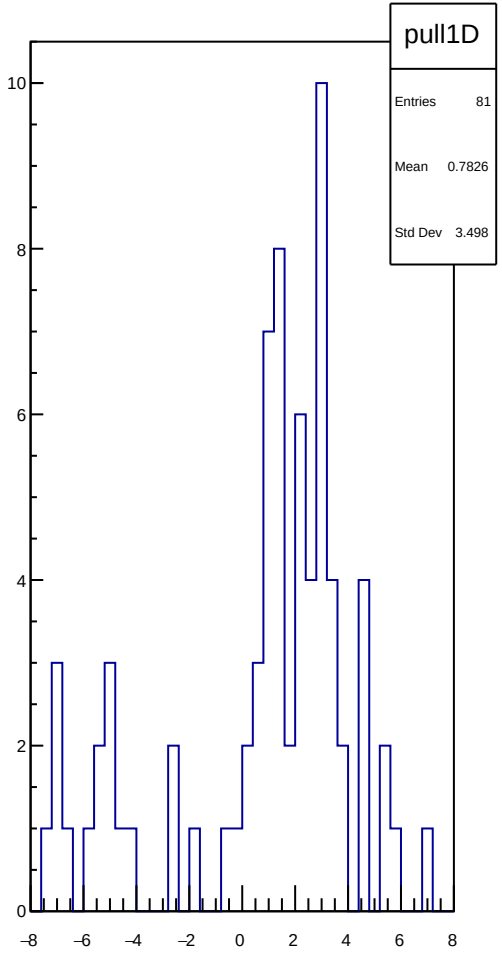

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 110.3 / 80
p0 0.2945 ± 0.01127
pull
Entries 81
Mean 674
Std Dev 633.9

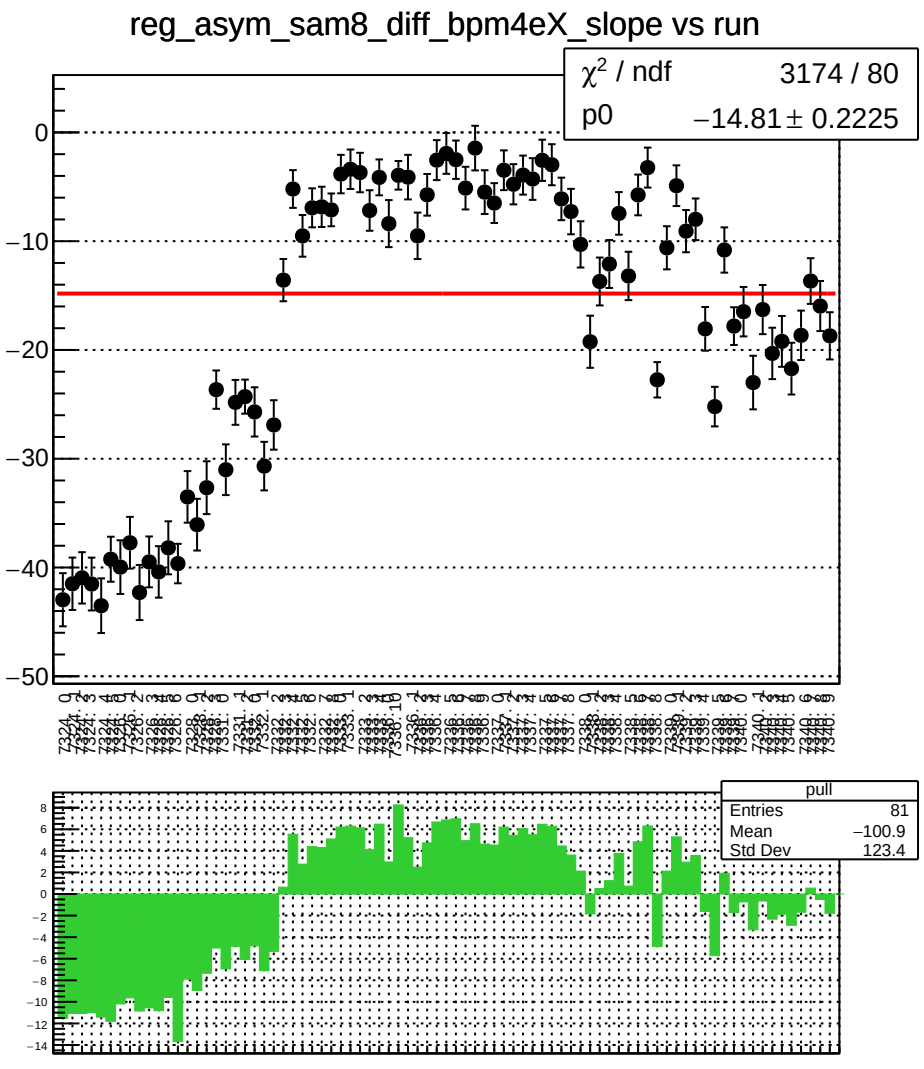

pull1D
Entries 81
Mean −0.03824
Std Dev 1.166

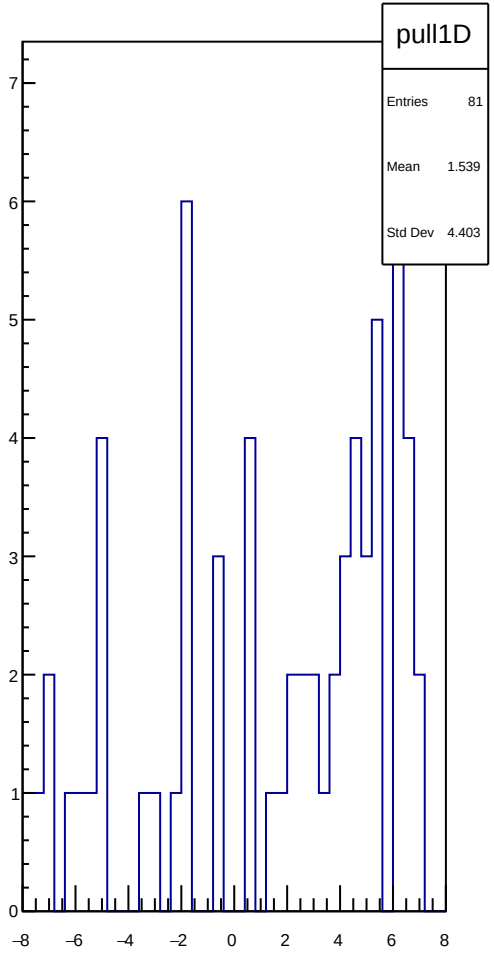

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 3832 / 80
p0 −16.99 ± 0.2242
pull
Entries 81
Mean −135.8
Std Dev 161.6

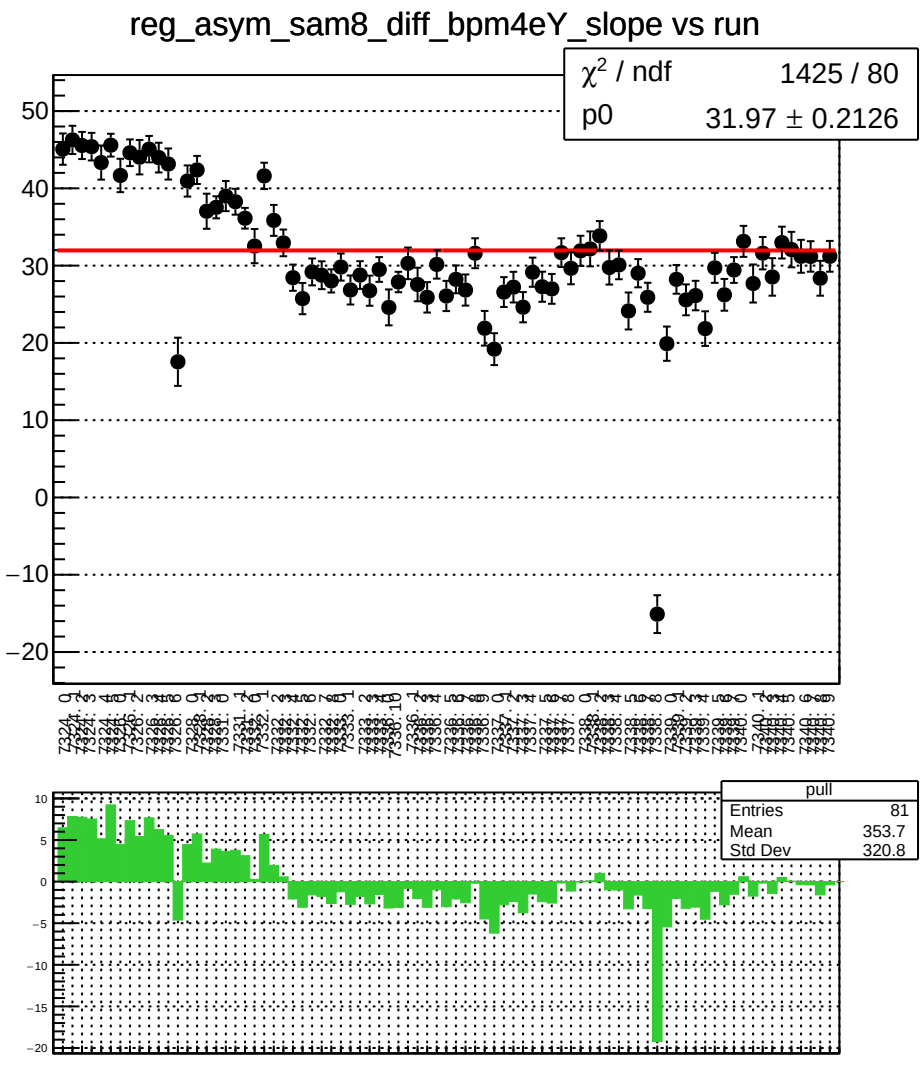

pull1D
Entries 81
Mean −2.295
Std Dev 4.211

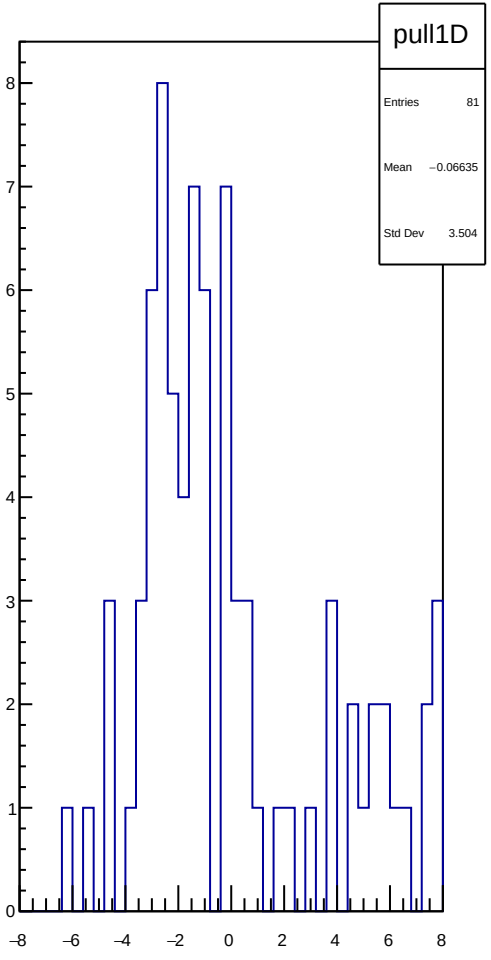

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 1865 / 80
p0 −26.3 ± 0.2017
pull
Entries 81
Mean 297.8
Std Dev 263.6

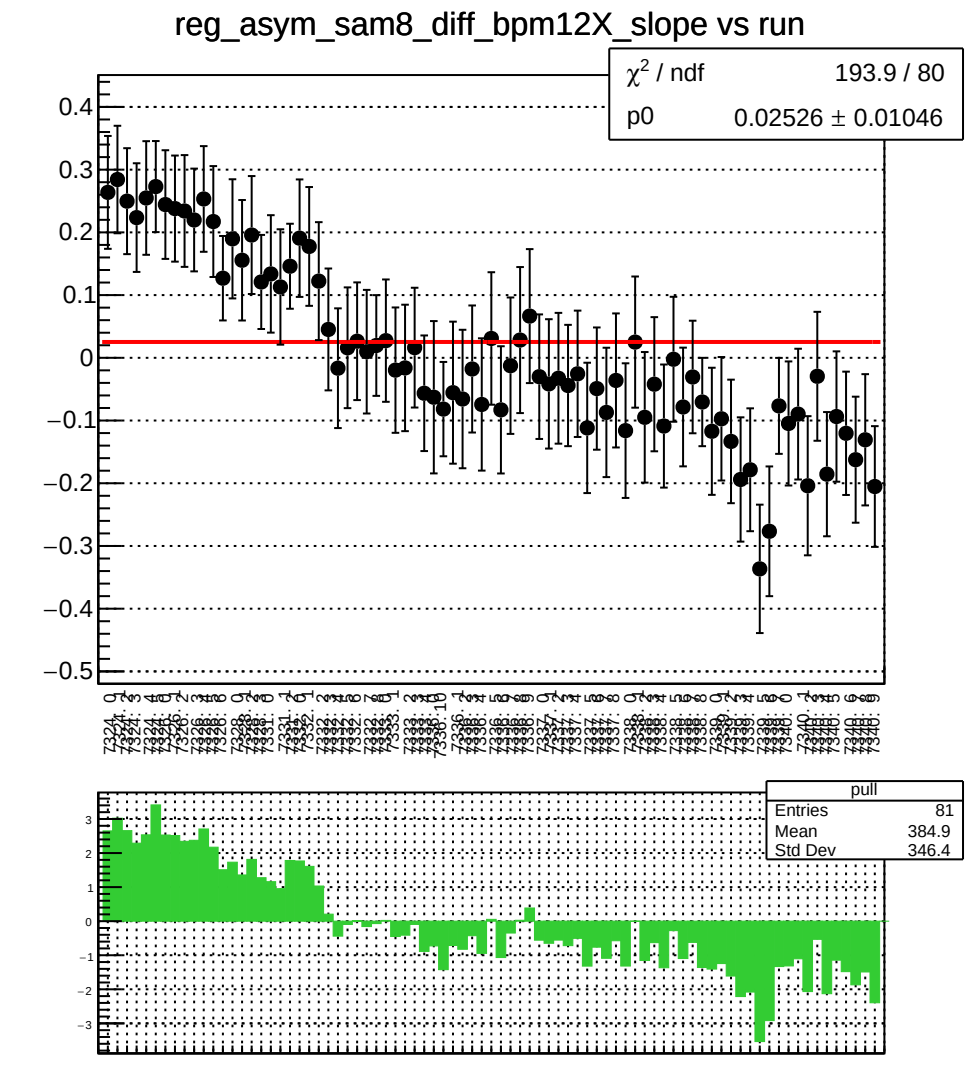

pull1D
Entries 81
Mean 0.7826
Std Dev 3.498

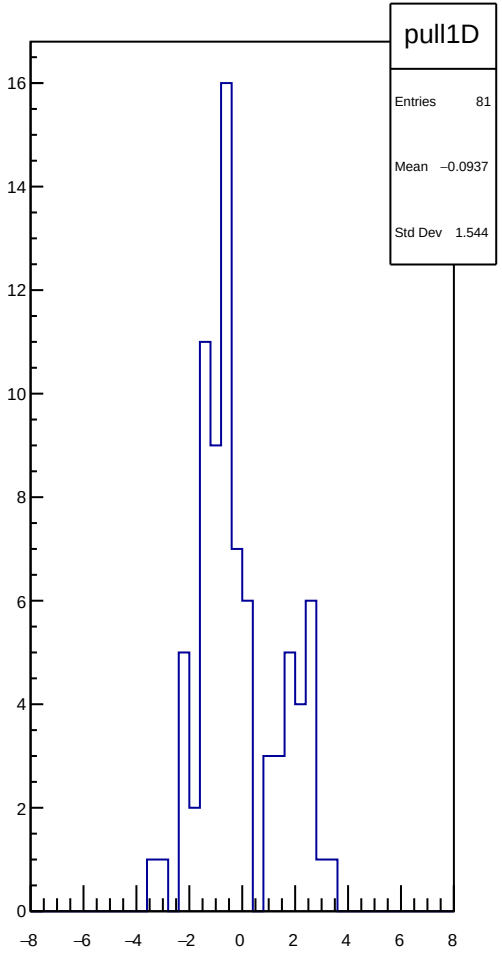

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 3174 / 80
p0 −14.81 ± 0.2225
pull
Entries 81
Mean −100.9
Std Dev 123.4

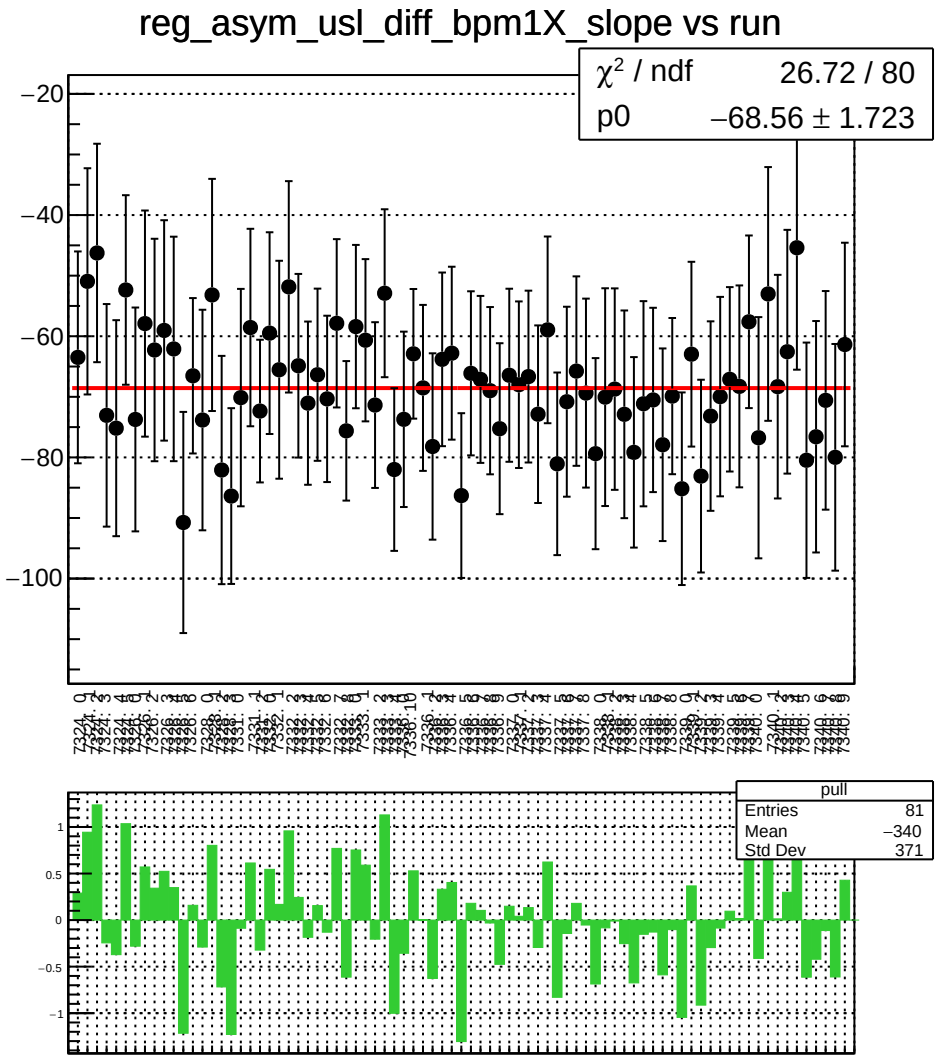

pull1D
Entries 81
Mean 1.539
Std Dev 4.403

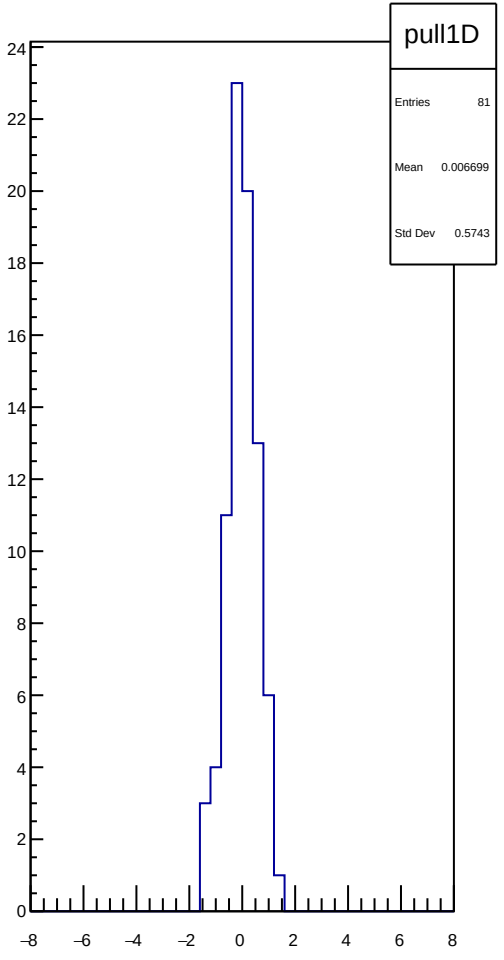

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 1425 / 80
p0 31.97 ± 0.2126
pull
Entries 81
Mean 353.7
Std Dev 320.8

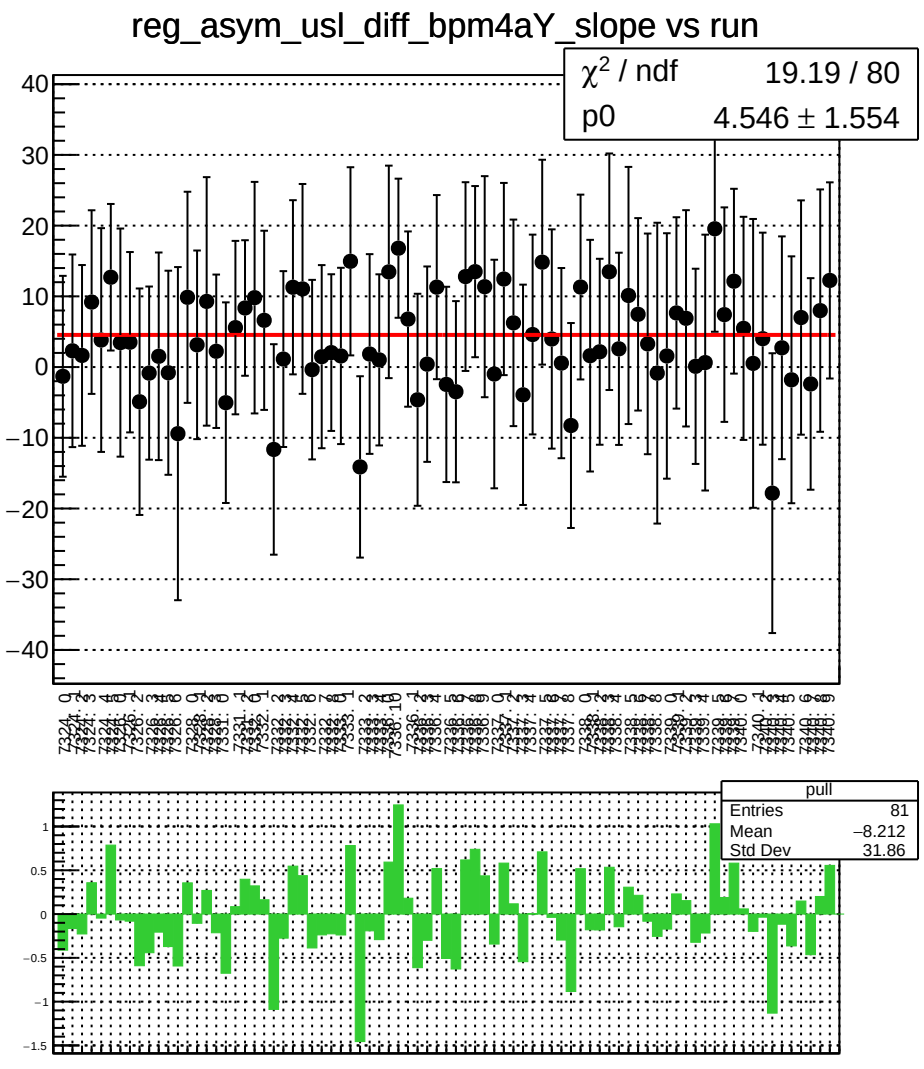

pull1D
Entries 81
Mean −0.06635
Std Dev 3.504

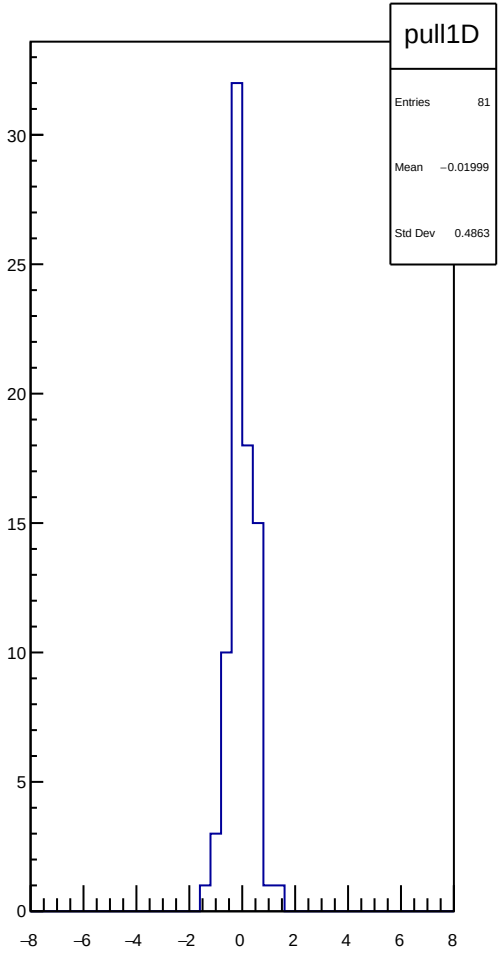

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 193.9 / 80
p0 0.02526 ± 0.01046
pull
Entries 81
Mean 384.9
Std Dev 346.4

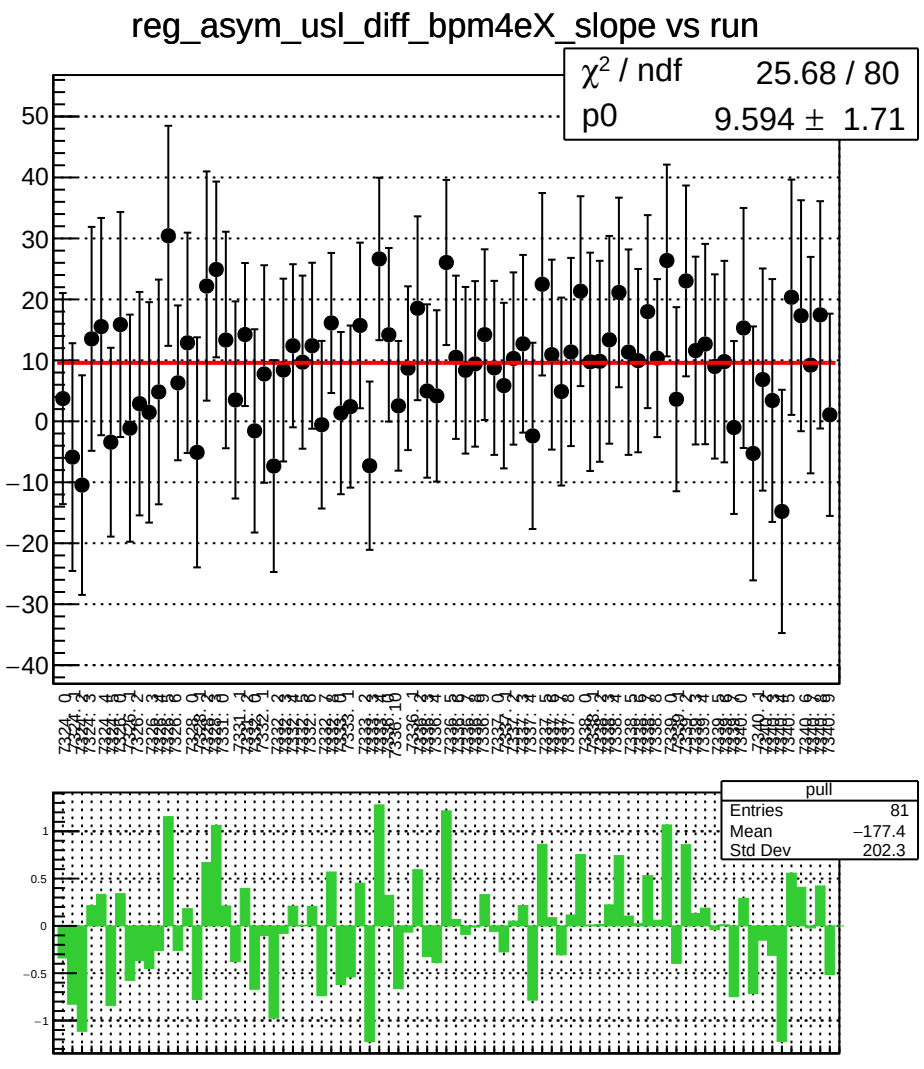

pull1D
Entries 81
Mean −0.0937
Std Dev 1.544

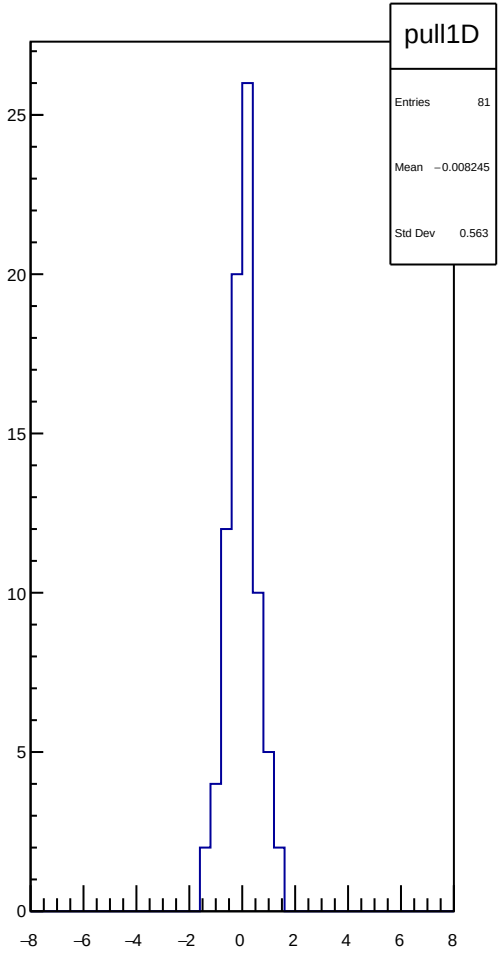

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 26.72 / 80
p0 −68.56 ± 1.723
pull
Entries 81
Mean −340
Std Dev 371

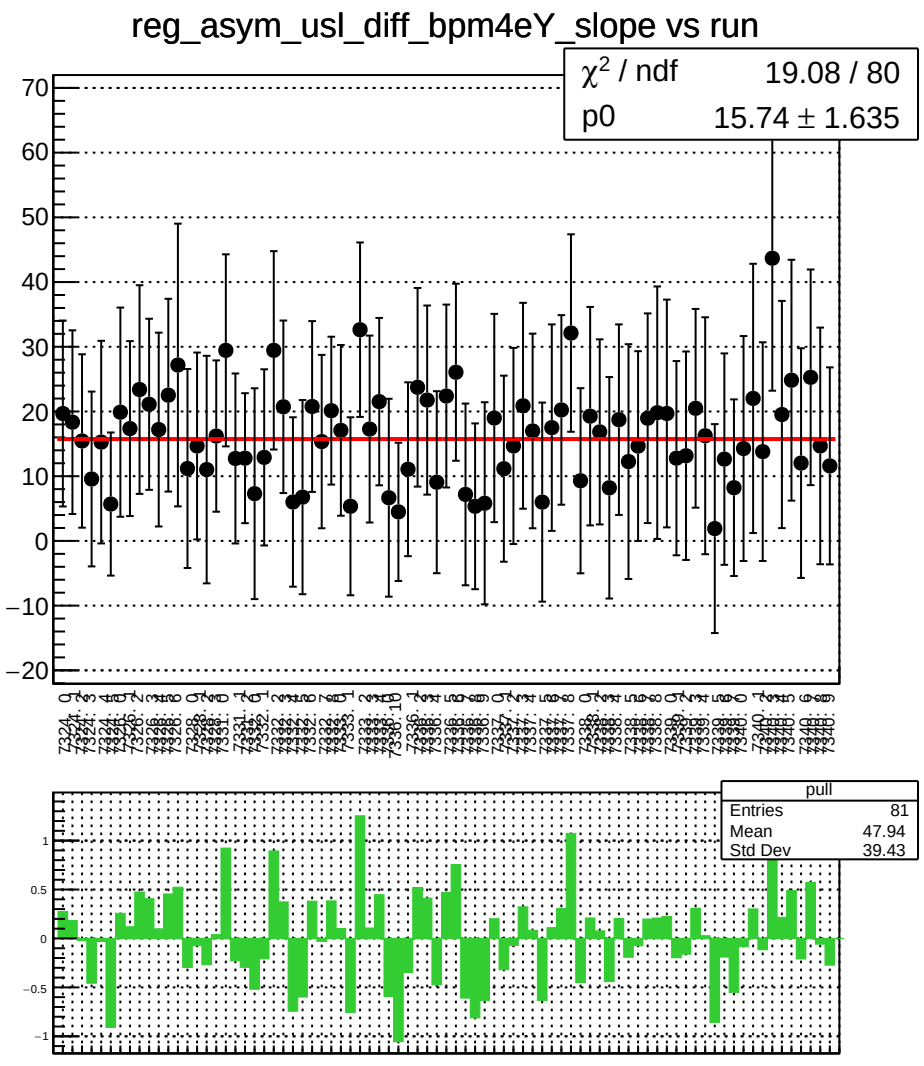

pull1D
Entries 81
Mean 0.006699
Std Dev 0.5743

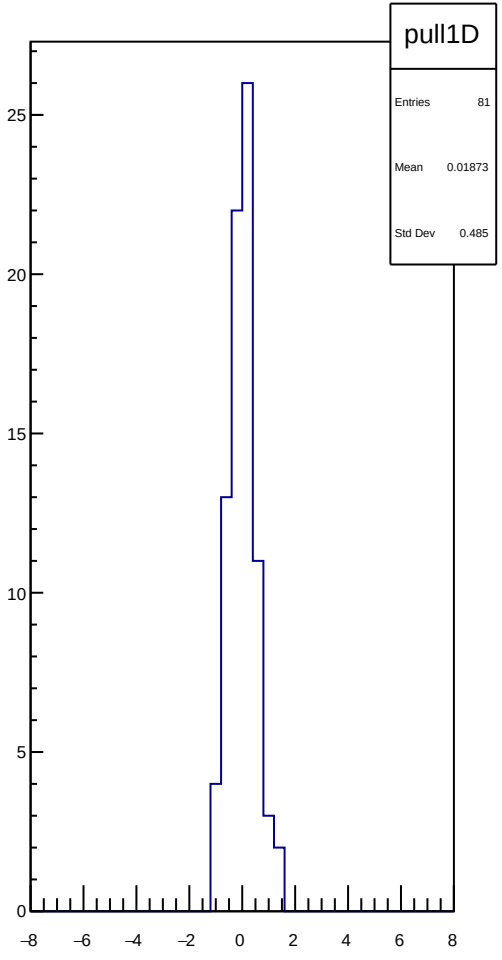

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 19.19 / 80
p0 4.546 ± 1.554
pull
Entries 81
Mean −8.212
Std Dev 31.86

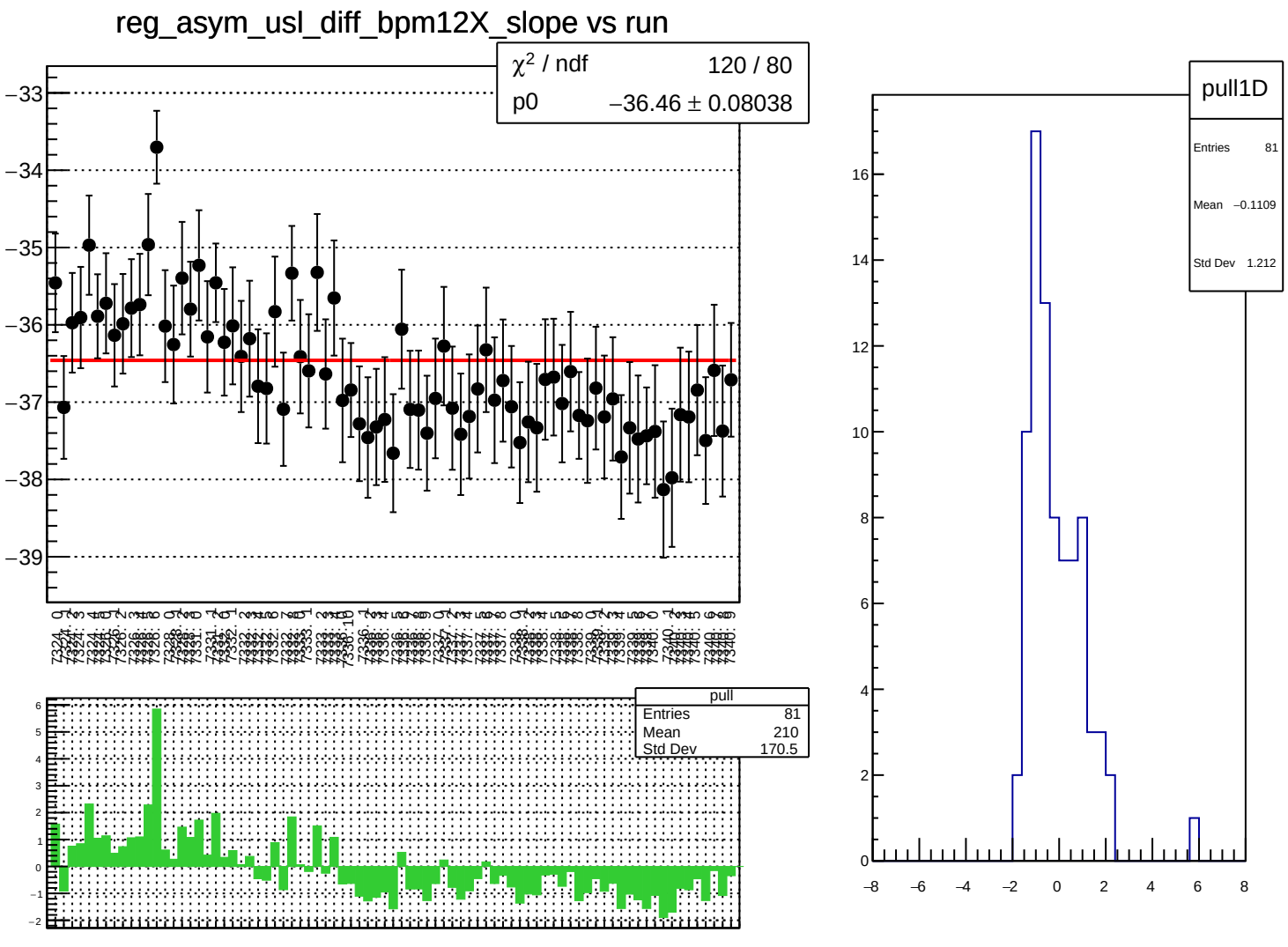

pull1D
Entries 81
Mean −0.01999
Std Dev 0.4863

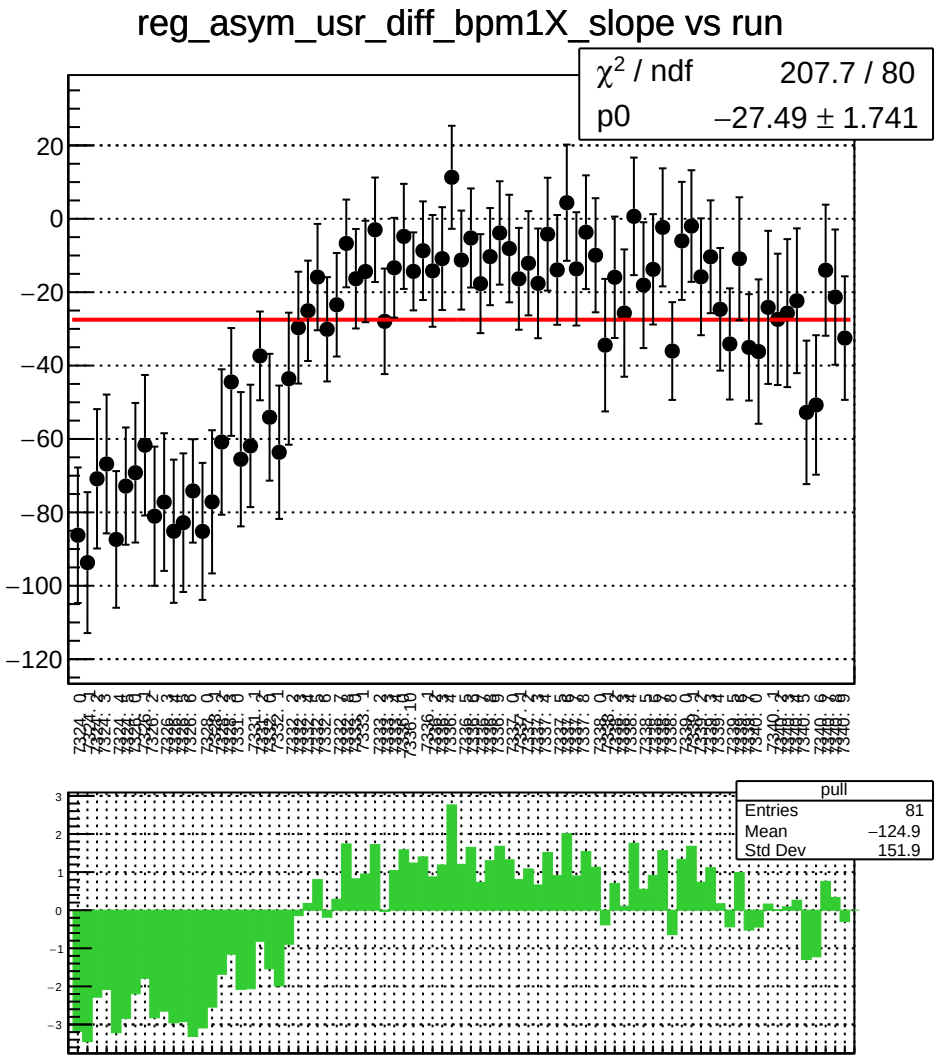

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 25.68 / 80
p0 9.594 ± 1.71
pull
Entries 81
Mean −177.4
Std Dev 202.3

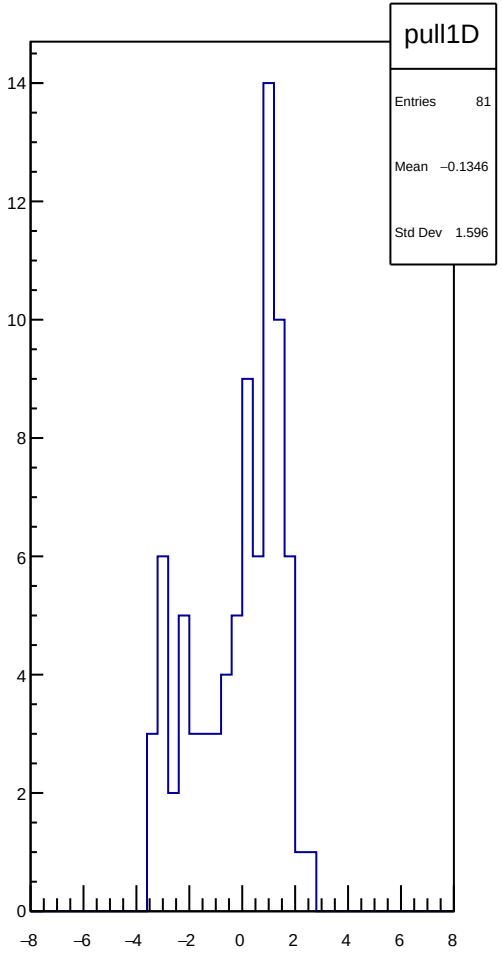

pull1D
Entries 81
Mean −0.008245
Std Dev 0.563

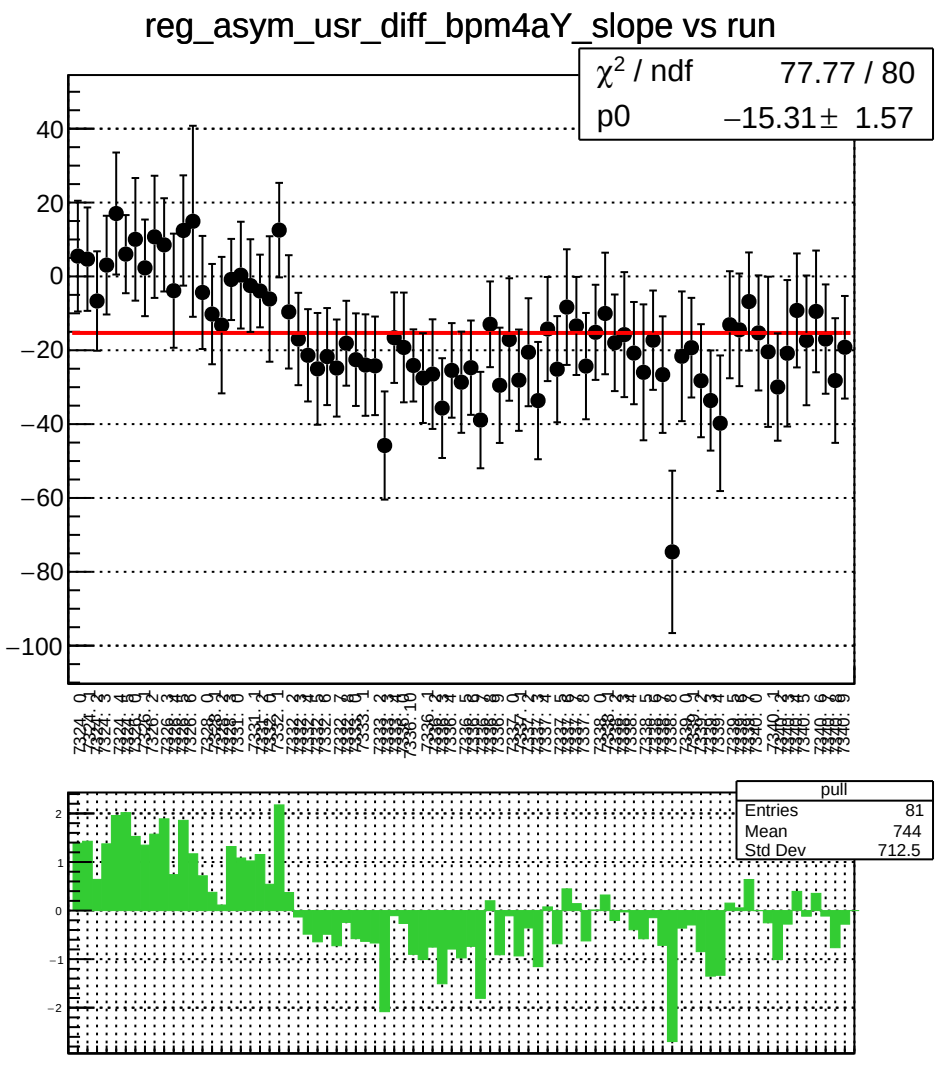

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 19.08 / 80
p0 15.74 ± 1.635
pull
Entries 81
Mean 47.94
Std Dev 39.43

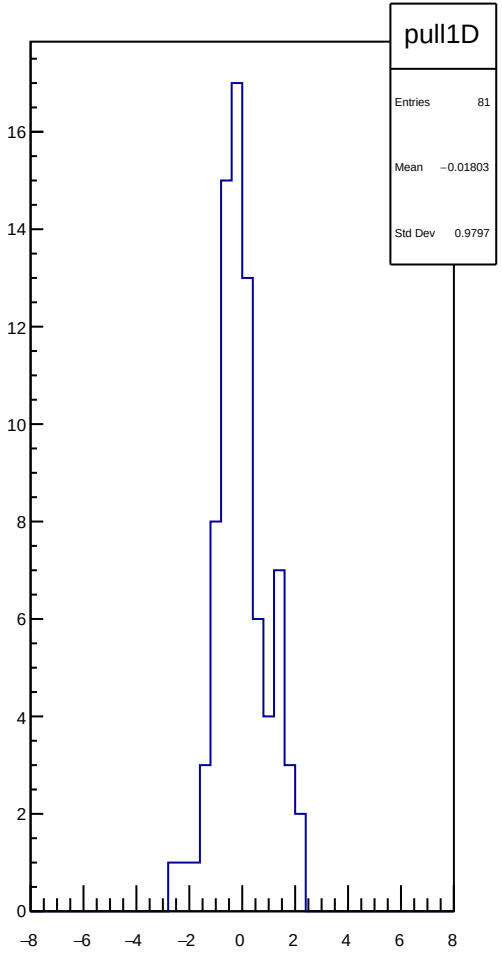

pull1D
Entries 81
Mean 0.01873
Std Dev 0.485

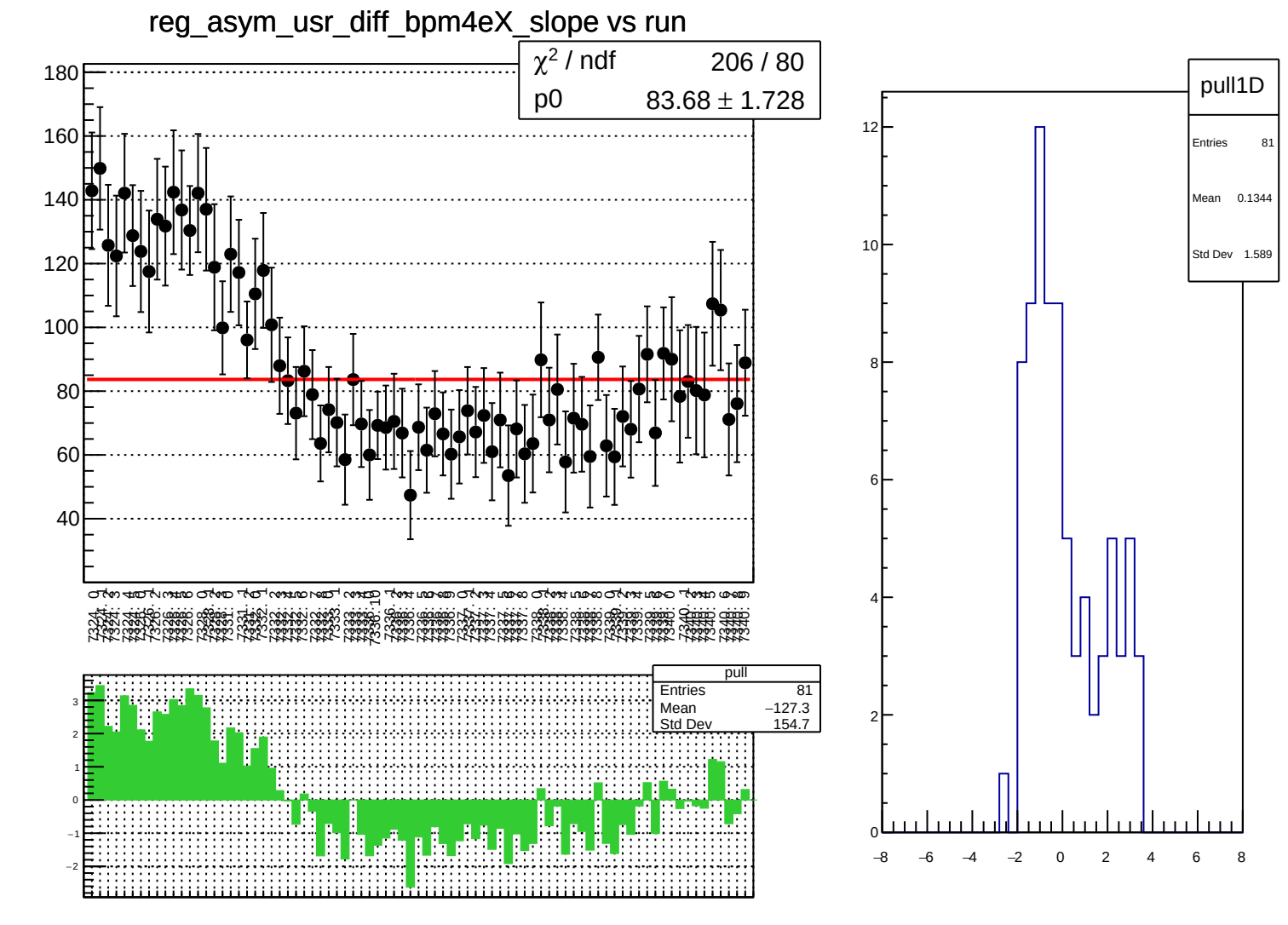

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 120 / 80
p0 −36.46 ± 0.08038
pull
Entries 81
Mean 210
Std Dev 170.5
pull1D
Entries 81
Mean −0.1109
Std Dev 1.212

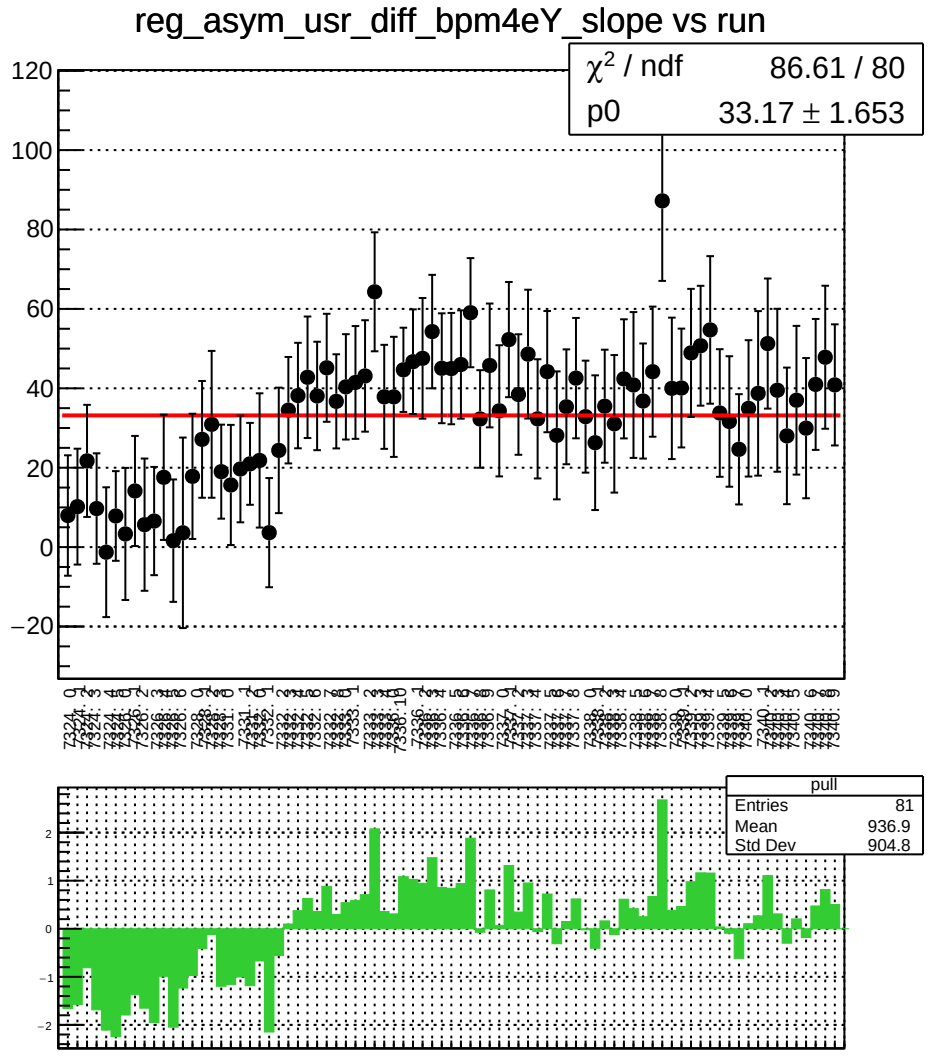

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 207.7 / 80
p0 −27.49 ± 1.741
pull
Entries 81
Mean −124.9
Std Dev 151.9

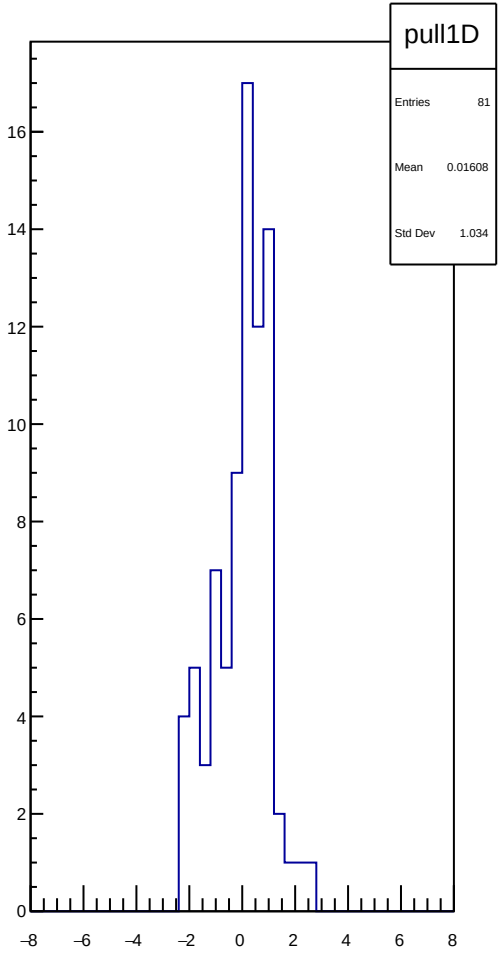

pull1D
Entries 81
Mean −0.1346
Std Dev 1.596

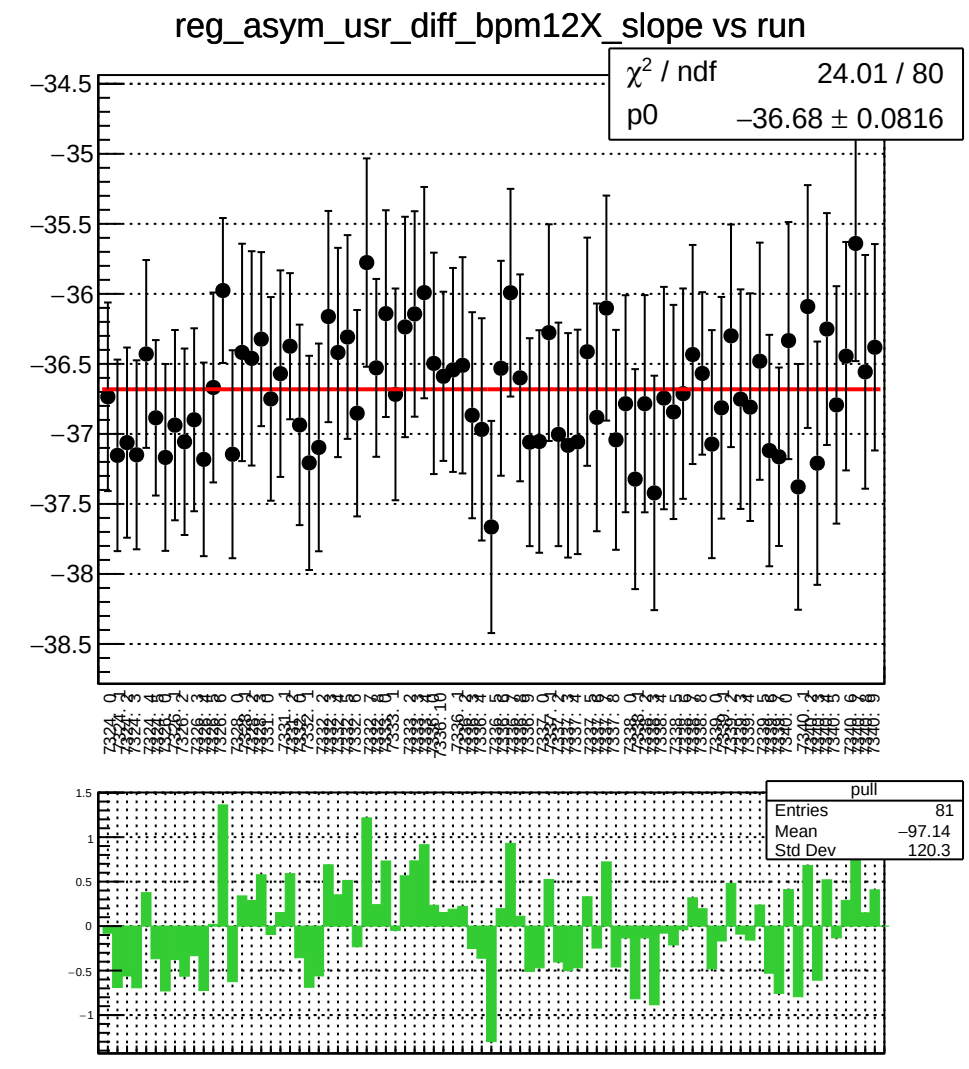

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 77.77 / 80
p0 −15.31 ± 1.57
pull
Entries 81
Mean 744
Std Dev 712.5

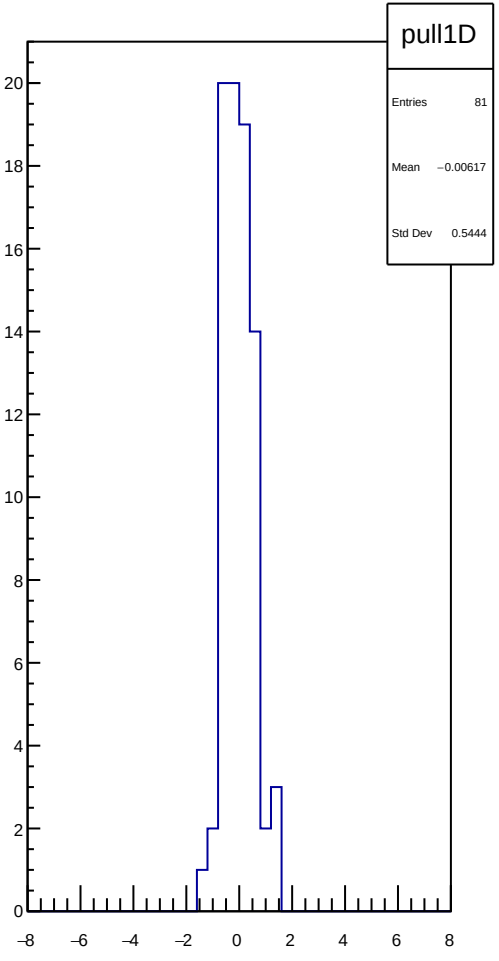

pull1D
Entries 81
Mean −0.01803
Std Dev 0.9797

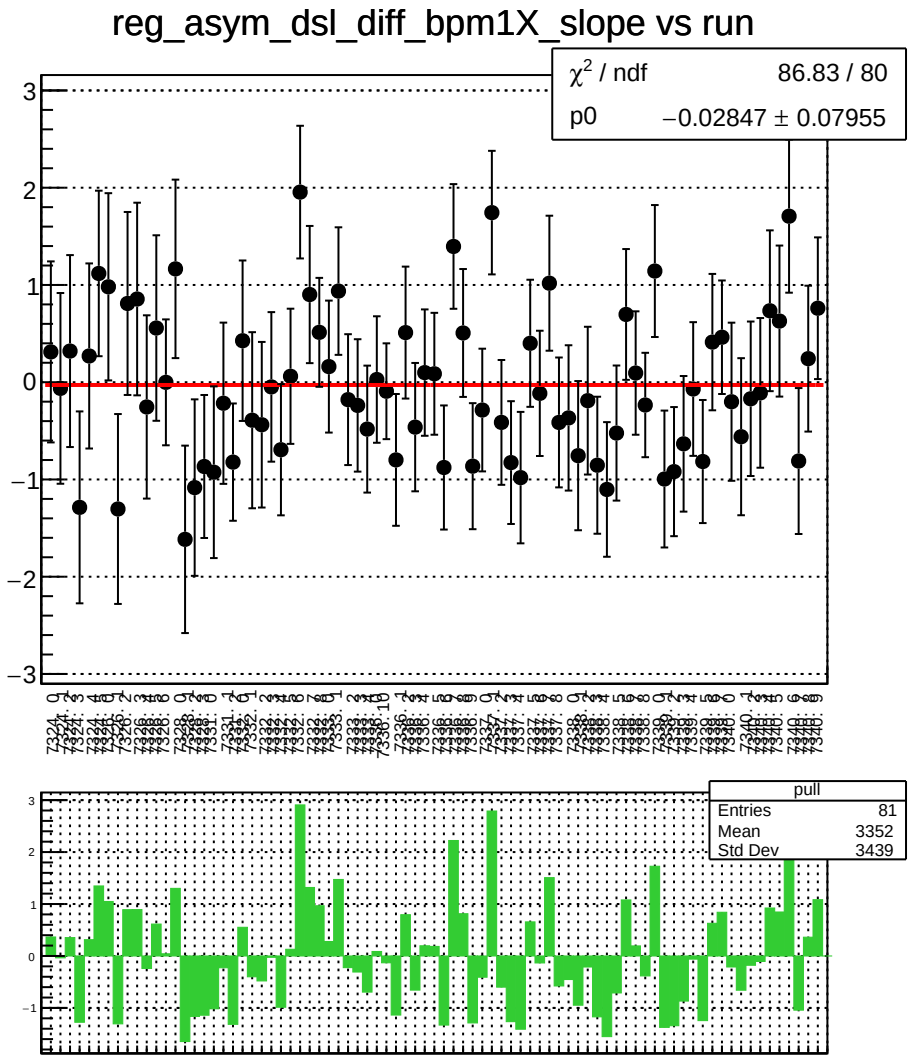

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 206 / 80
p0 83.68 ± 1.728
pull
Entries 81
Mean −127.3
Std Dev 154.7
pull1D
Entries 81
Mean 0.1344
Std Dev 1.589

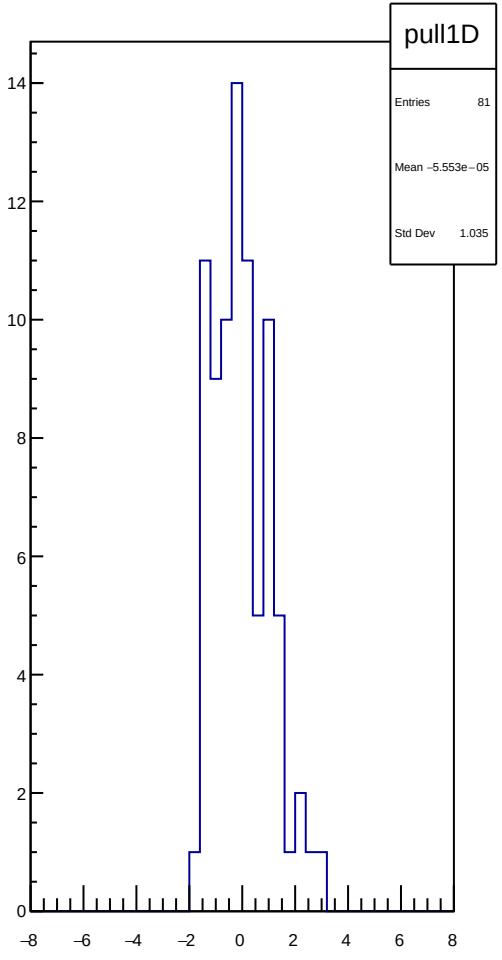

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 86.61 / 80
p0 33.17 ± 1.653
pull
Entries 81
Mean 936.9
Std Dev 904.8

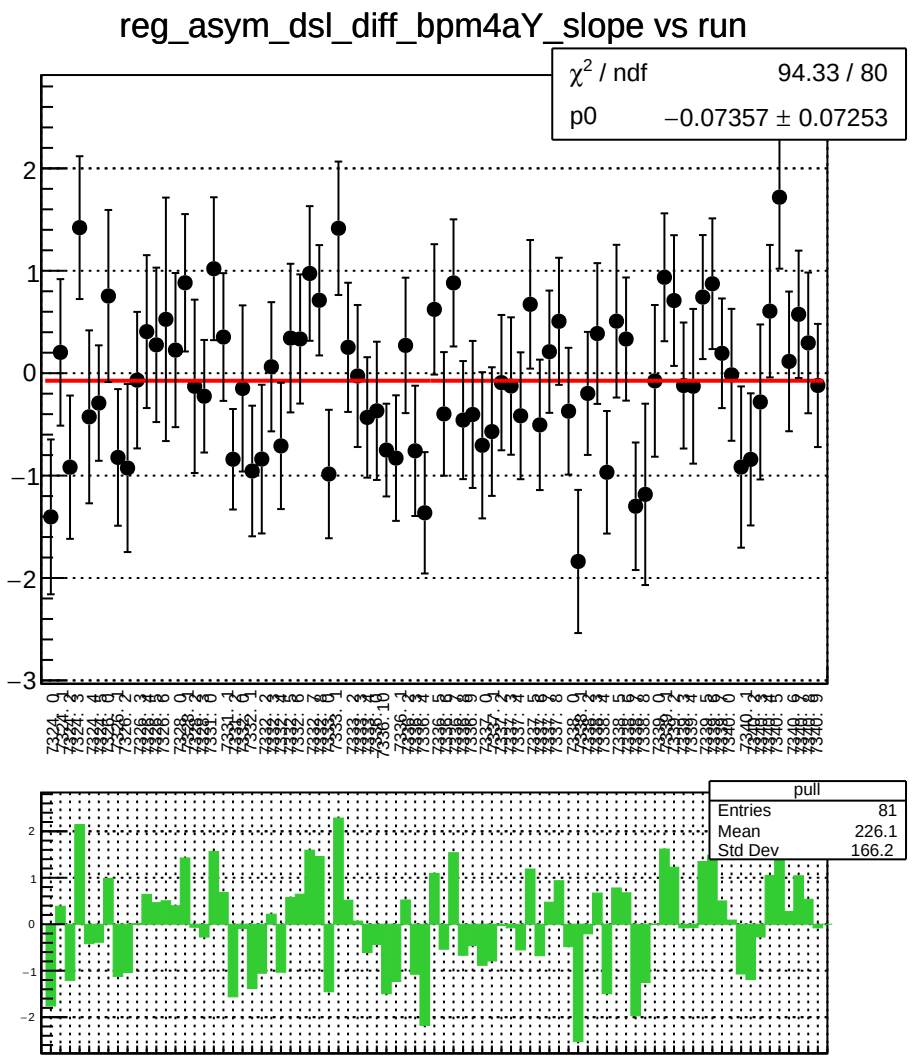

pull1D
Entries 81
Mean 0.01608
Std Dev 1.034

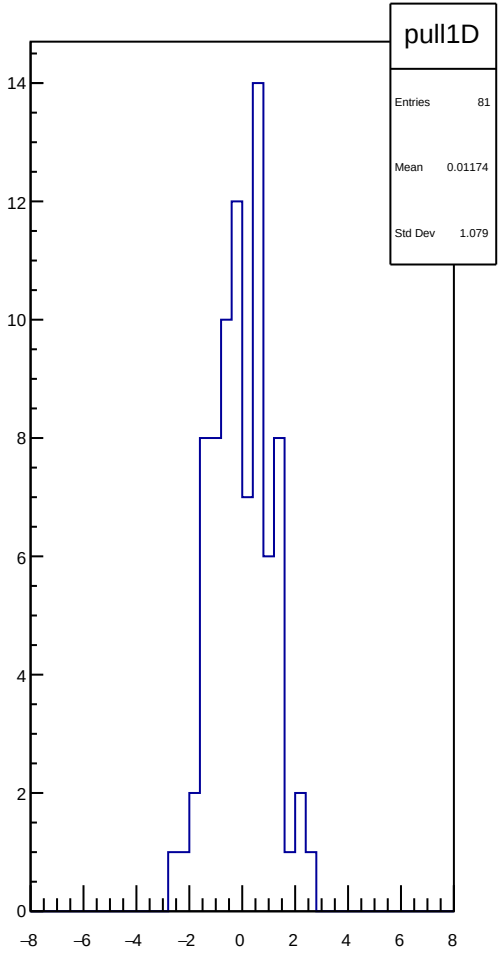

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 24.01 / 80
p0 −36.68 ± 0.0816
pull
Entries 81
Mean −97.14
Std Dev 120.3

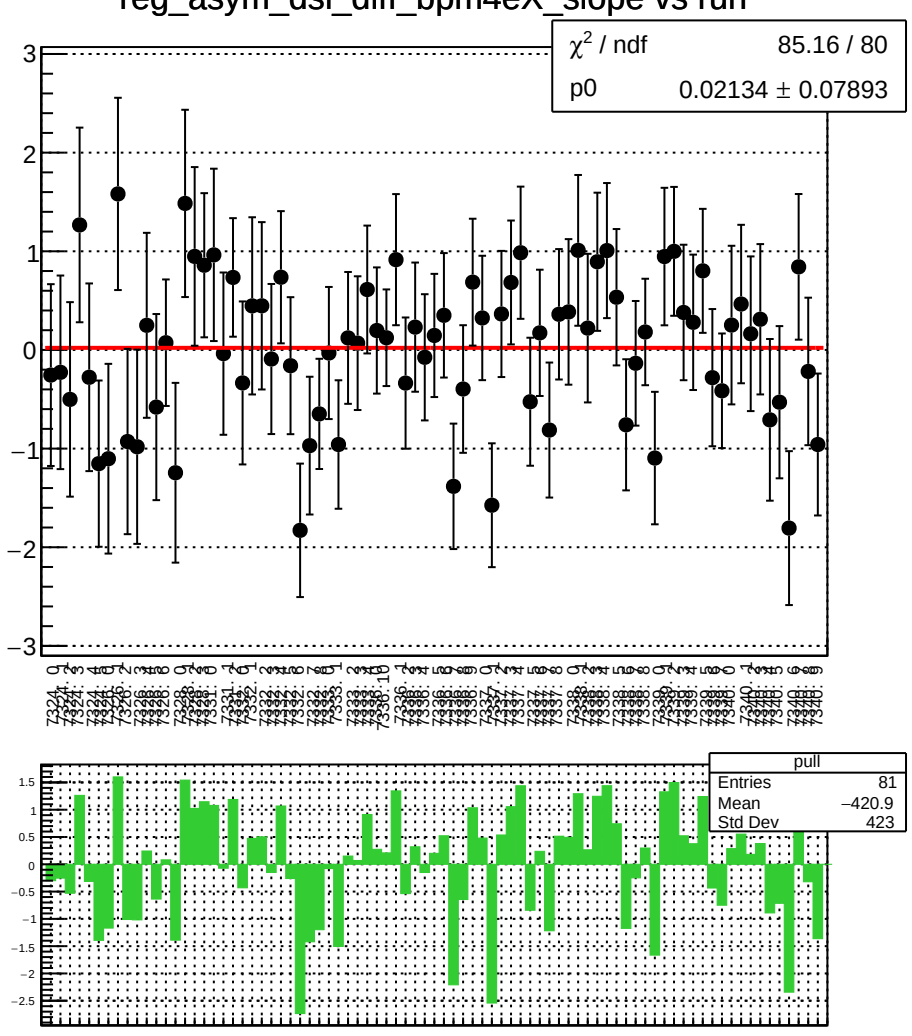

pull1D
Entries 81
Mean −0.00617
Std Dev 0.5444

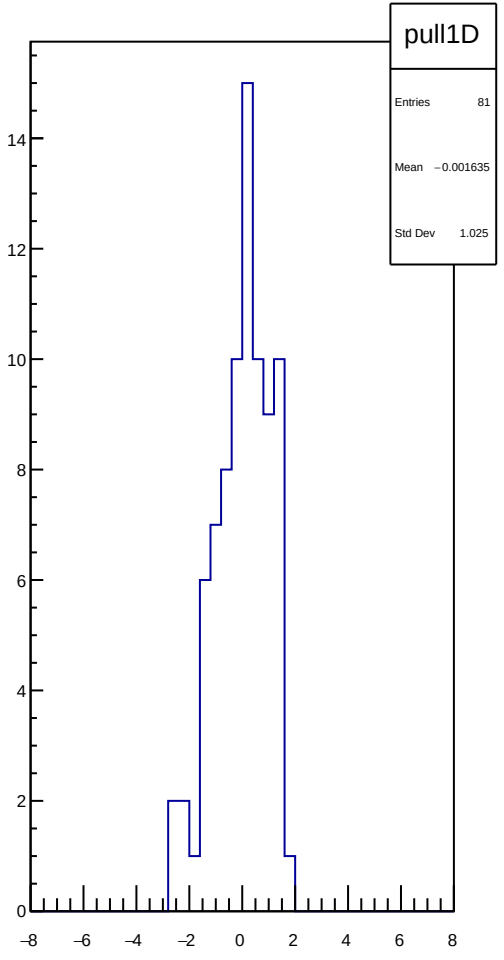

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 86.83 / 80
p0 −0.02847 ± 0.07955
pull
Entries 81
Mean 3352
Std Dev 3439

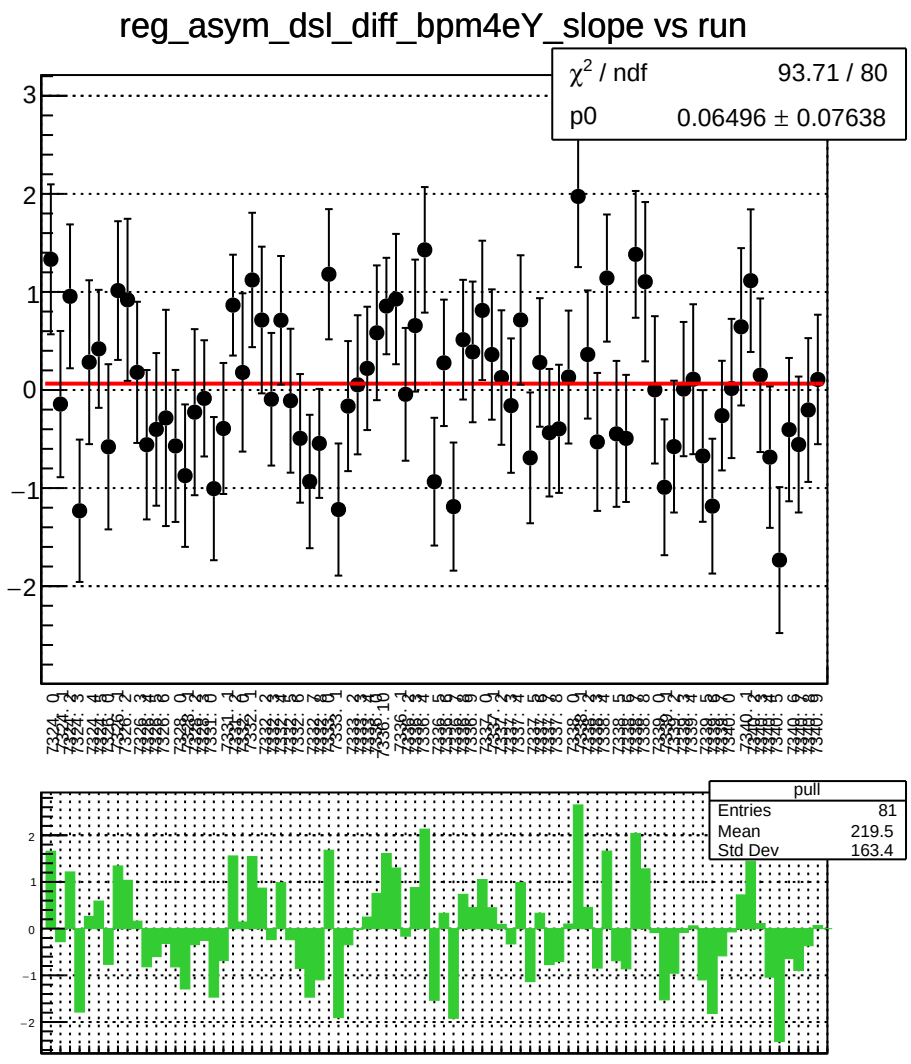

pull1D
Entries 81
Mean −5.553e−05
Std Dev 1.035

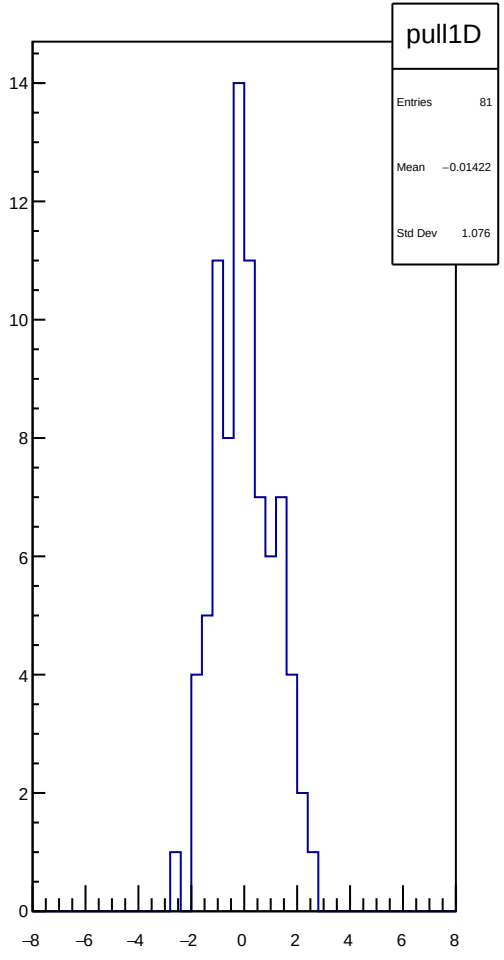

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 94.33 / 80
p0 −0.07357 ± 0.07253
pull
Entries 81
Mean 226.1
Std Dev 166.2

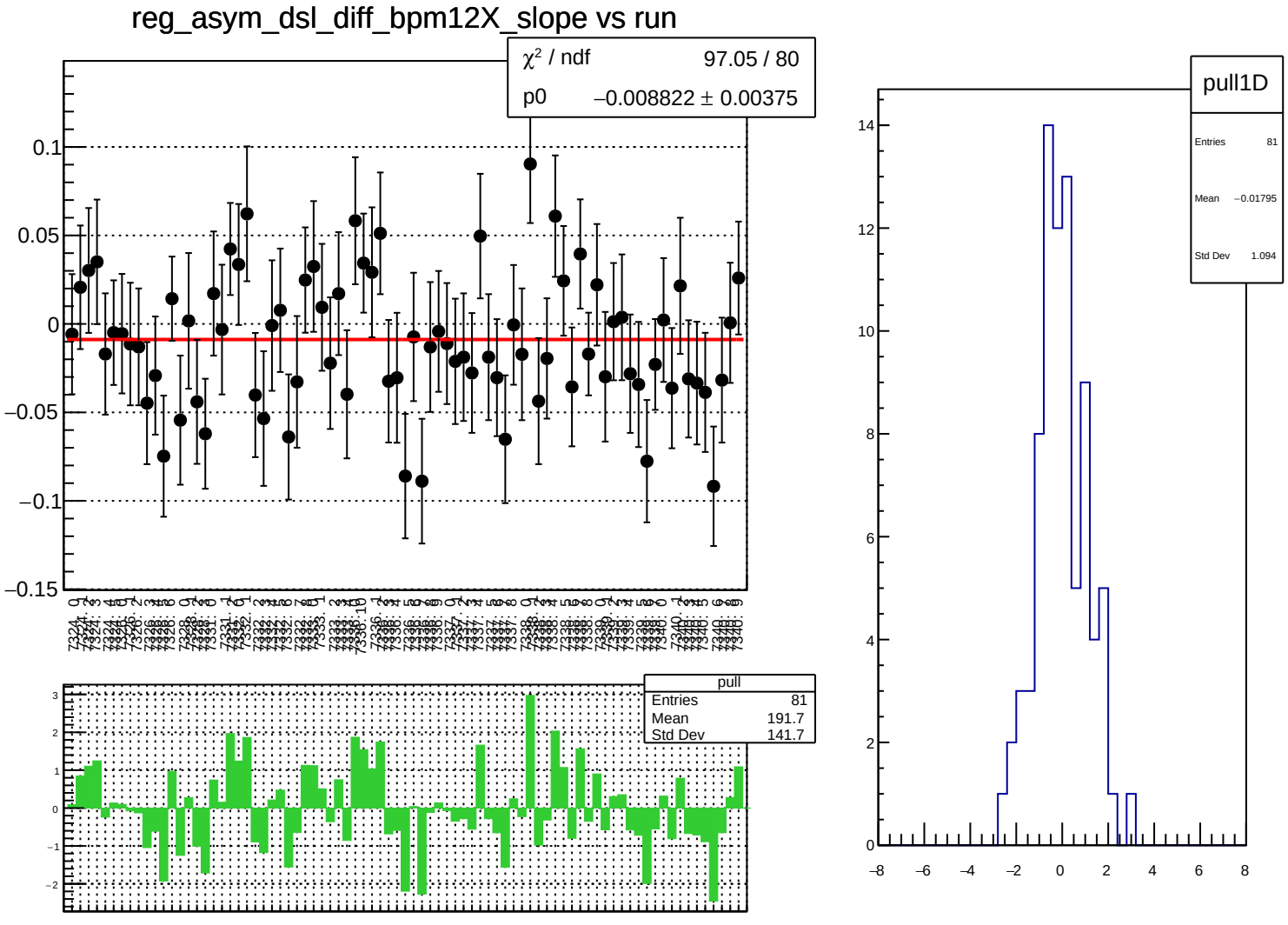

pull1D
Entries 81
Mean 0.01174
Std Dev 1.079

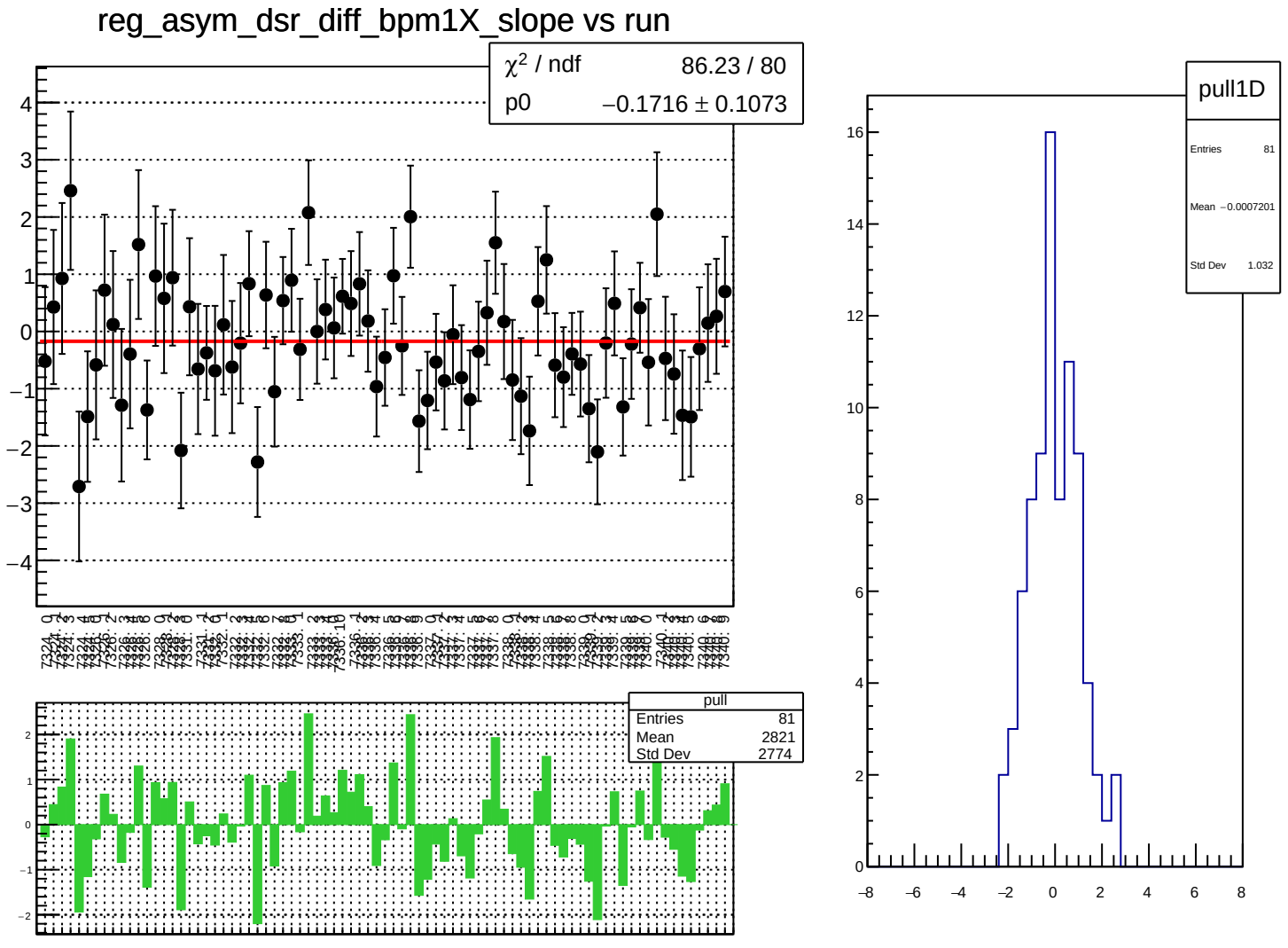

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 85.16 / 80
p0 0.02134 ± 0.07893
pull
Entries 81
Mean −420.9
Std Dev 423

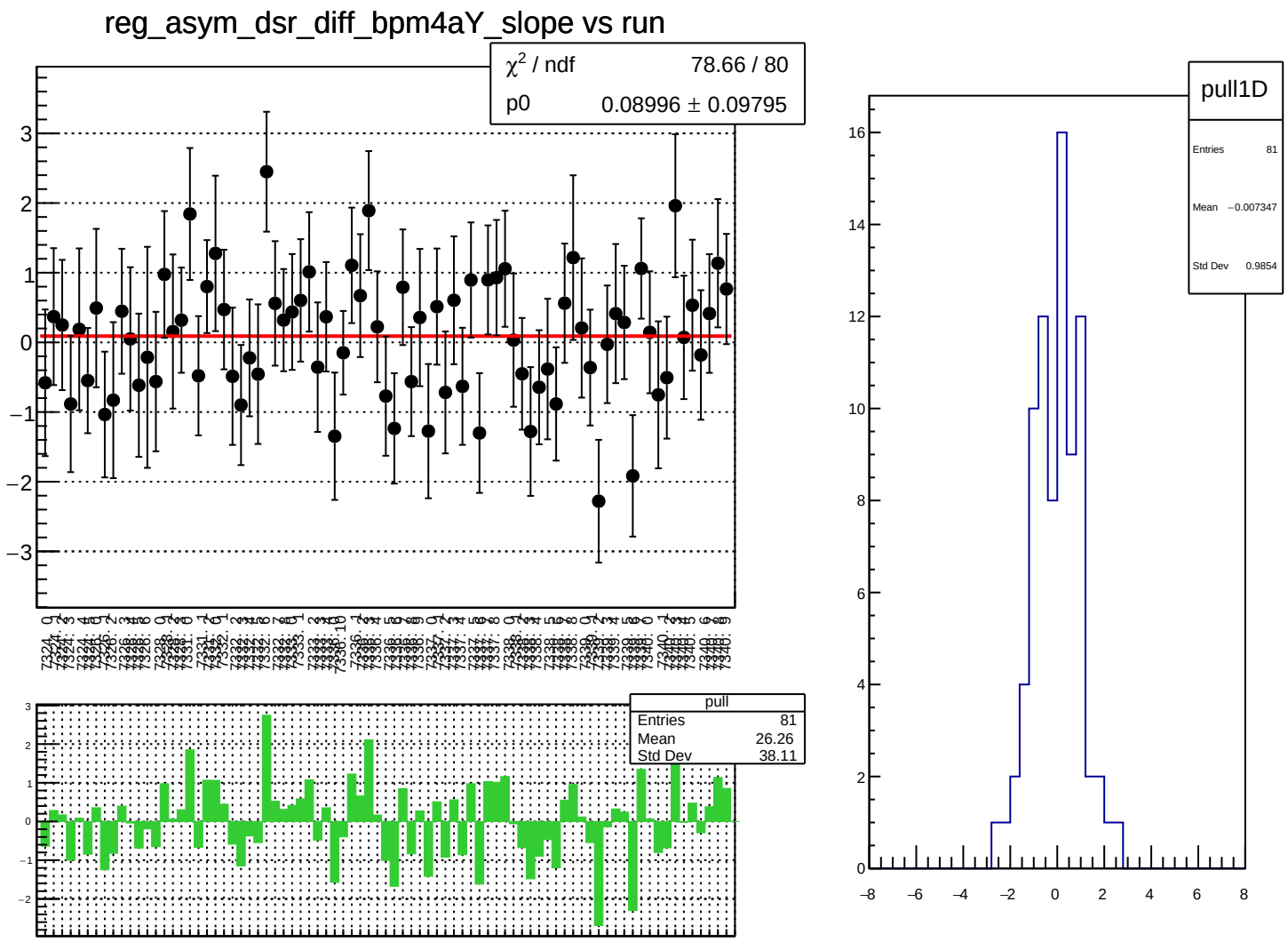

pull1D
Entries 81
Mean −0.001635
Std Dev 1.025

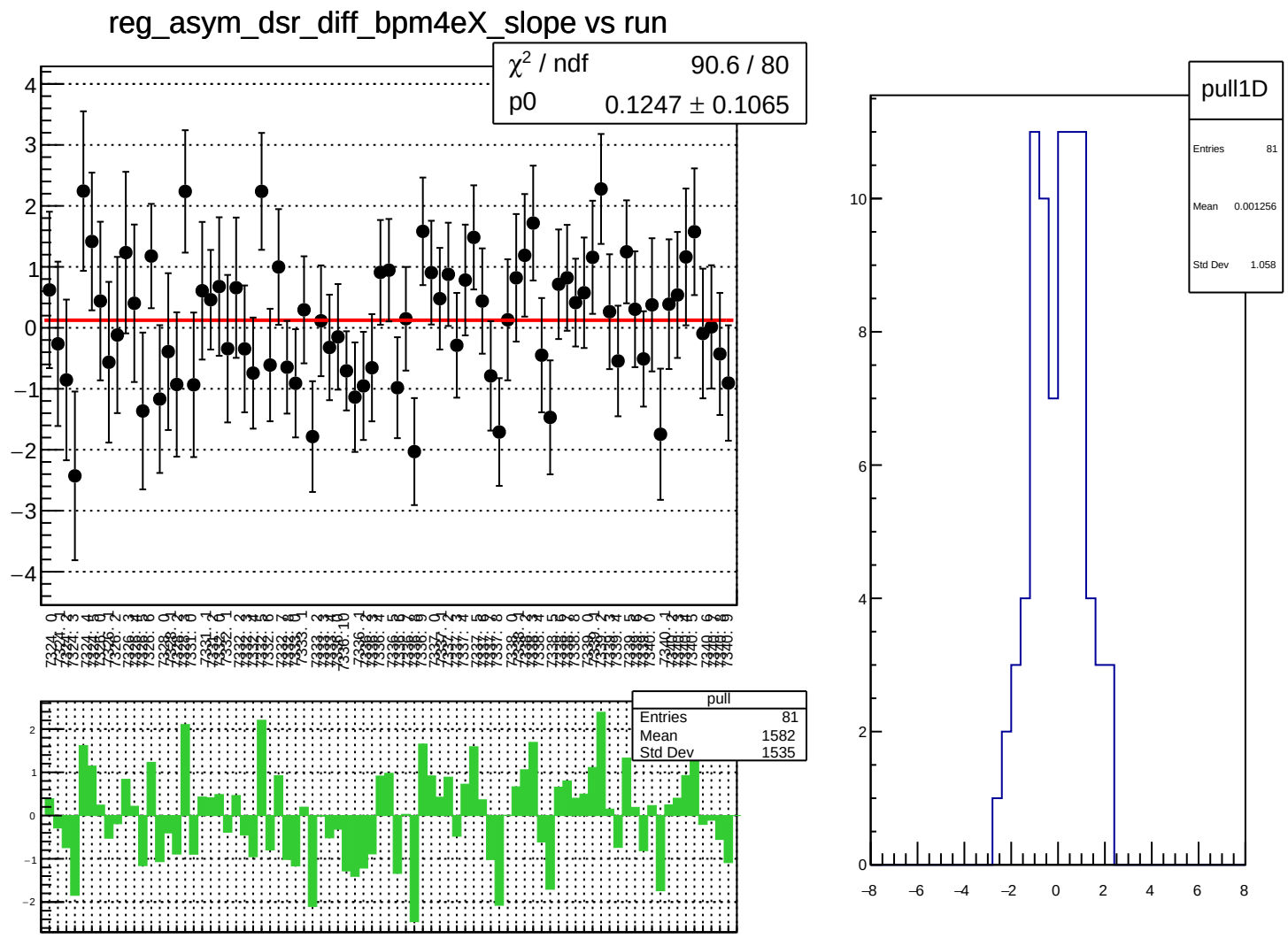

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 93.71 / 80
p0 0.06496 ± 0.07638
pull
Entries 81
Mean 219.5
Std Dev 163.4

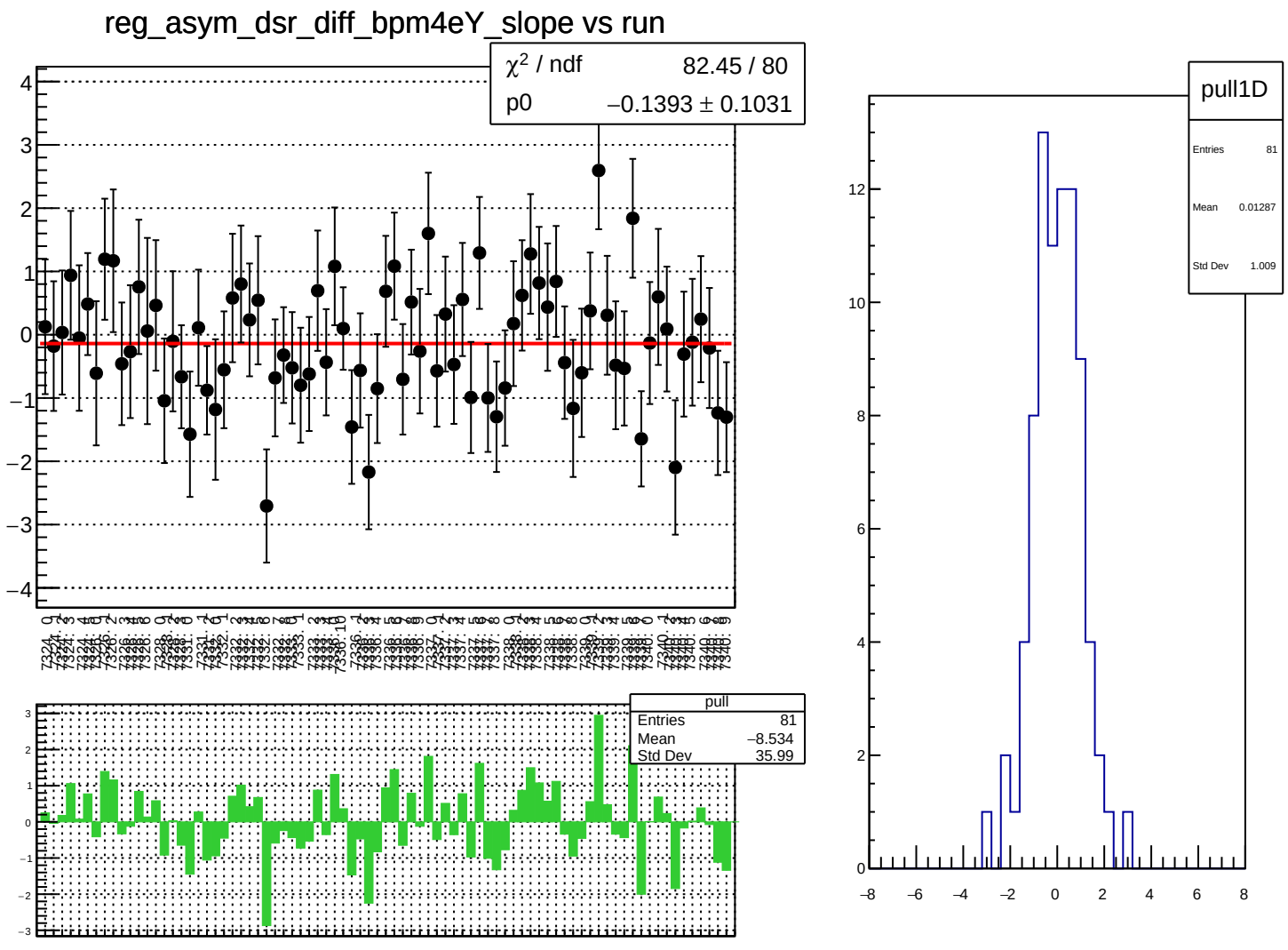

pull1D
Entries 81
Mean −0.01422
Std Dev 1.076

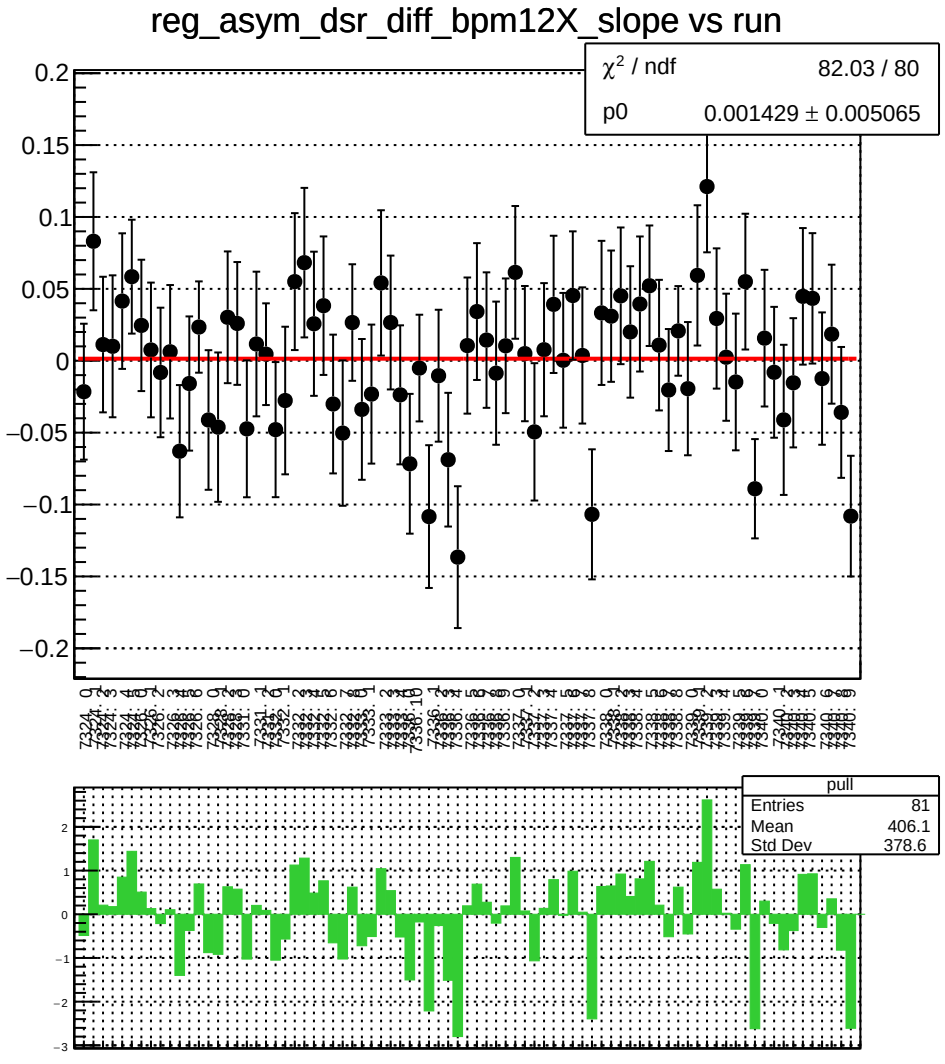

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 97.05 / 80
p0 −0.008822 ± 0.00375
pull
Entries 81
Mean 191.7
Std Dev 141.7
pull1D
Entries 81
Mean −0.01795
Std Dev 1.094

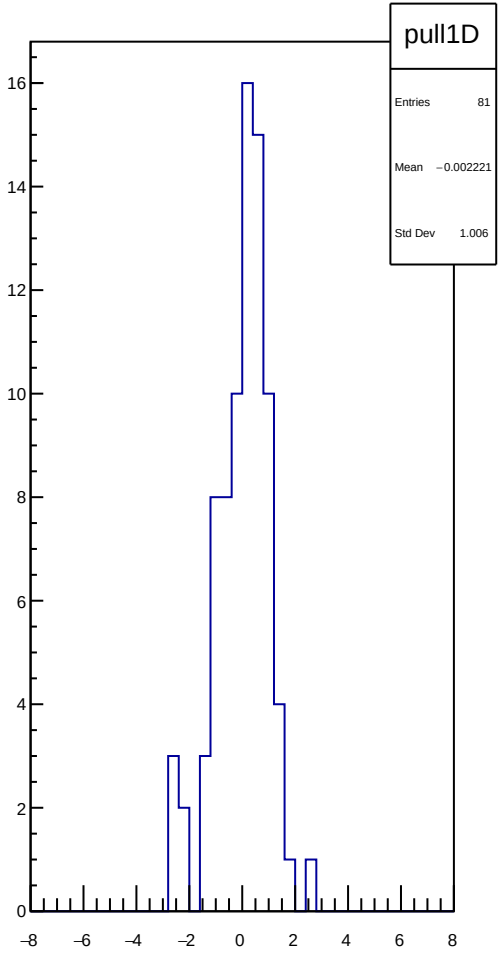

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 86.23 / 80
p0 −0.1716 ± 0.1073
pull
Entries 81
Mean 2821
Std Dev 2774
pull1D
Entries 81
Mean −0.0007201
Std Dev 1.032

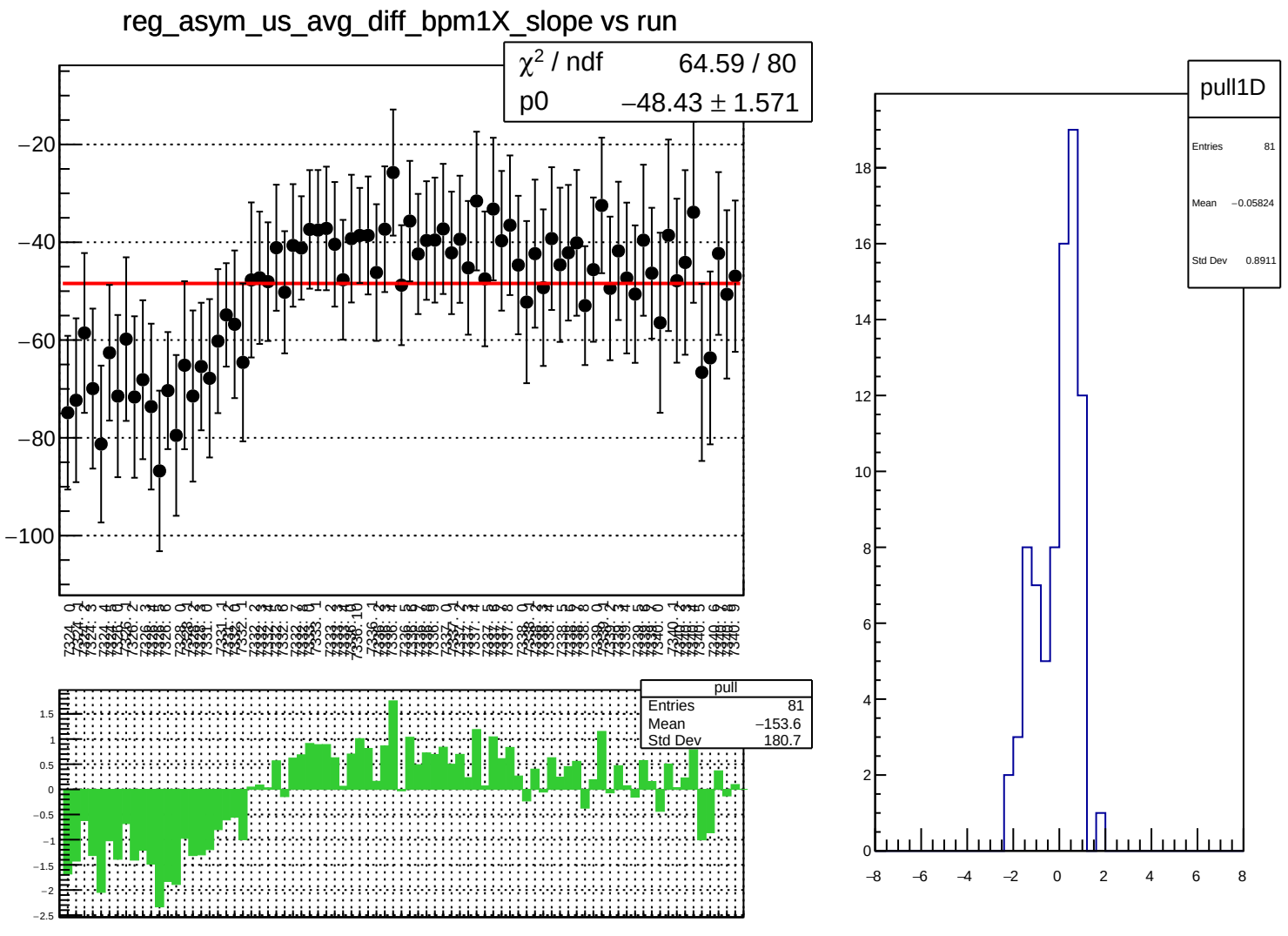

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 78.66 / 80
p0 0.08996 ± 0.09795
pull
Entries 81
Mean 26.26
Std Dev 38.11
pull1D
Entries 81
Mean −0.007347
Std Dev 0.9854

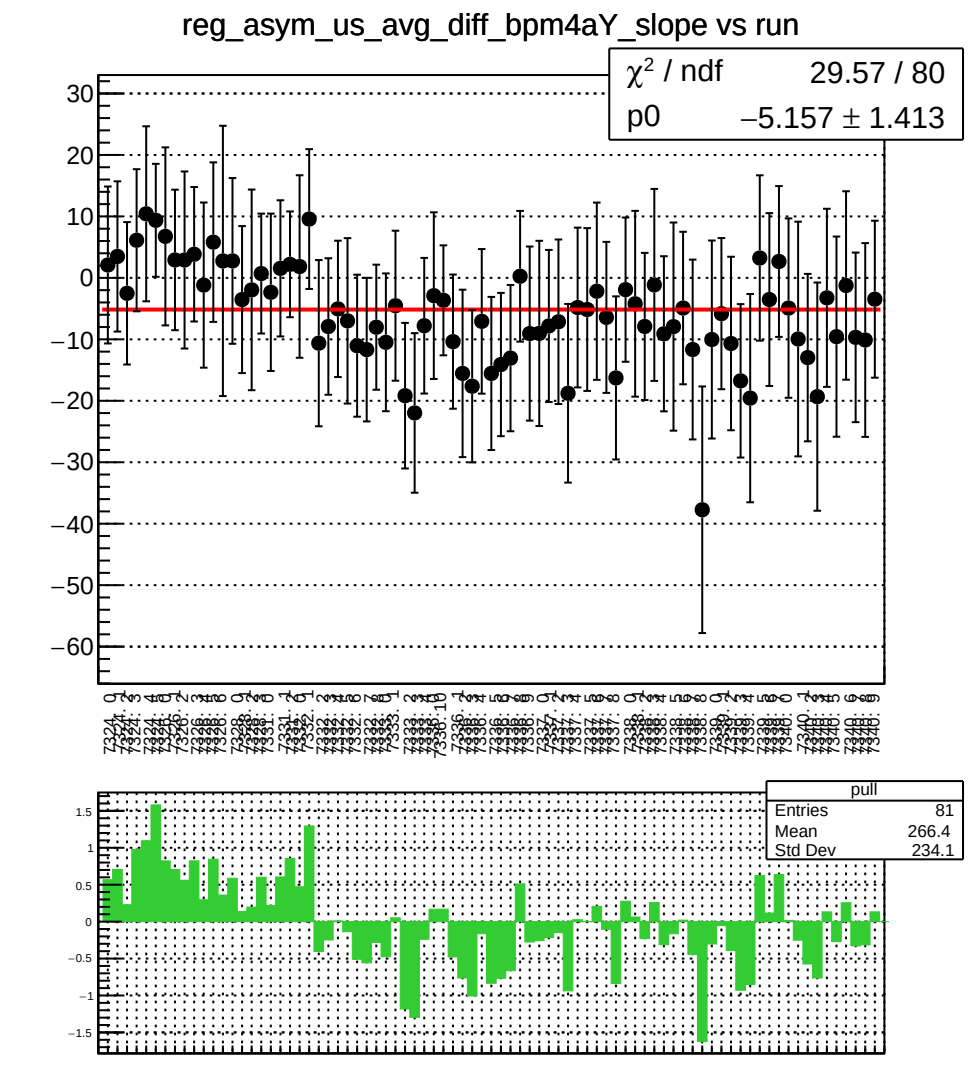

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 90.6 / 80
p0 0.1247 ± 0.1065
pull
Entries 81
Mean 1582
Std Dev 1535
pull1D
Entries 81
Mean 0.001256
Std Dev 1.058

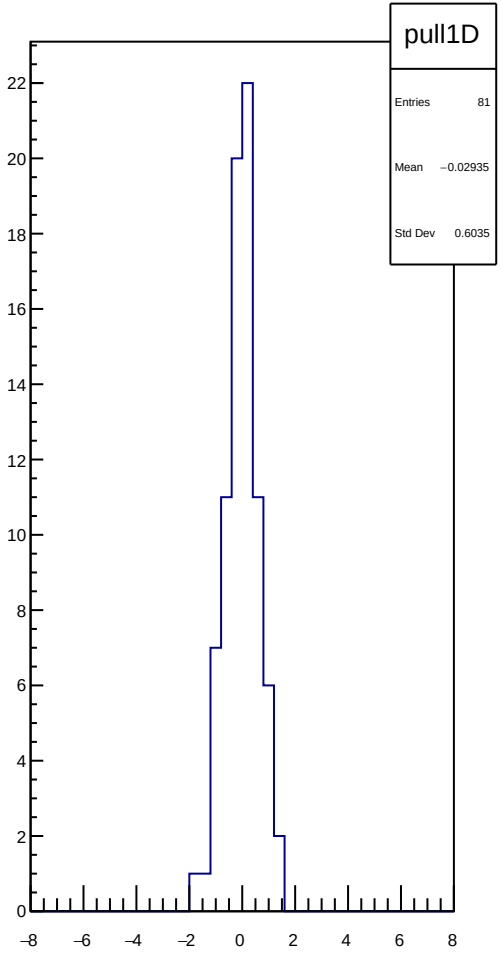

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 82.45 / 80
p0 −0.1393 ± 0.1031
pull
Entries 81
Mean −8.534
Std Dev 35.99
pull1D
Entries 81
Mean 0.01287
Std Dev 1.009

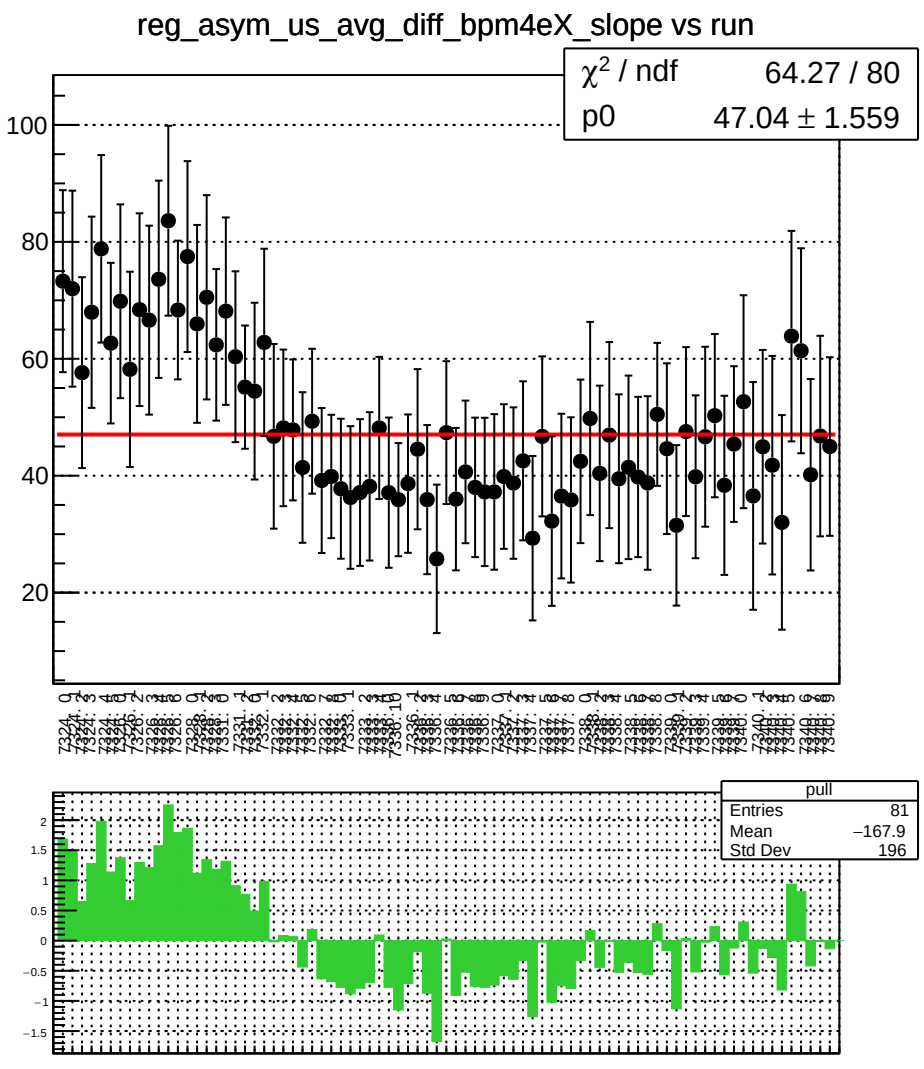

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 82.03 / 80
p0 0.001429 ± 0.005065
pull
Entries 81
Mean 406.1
Std Dev 378.6

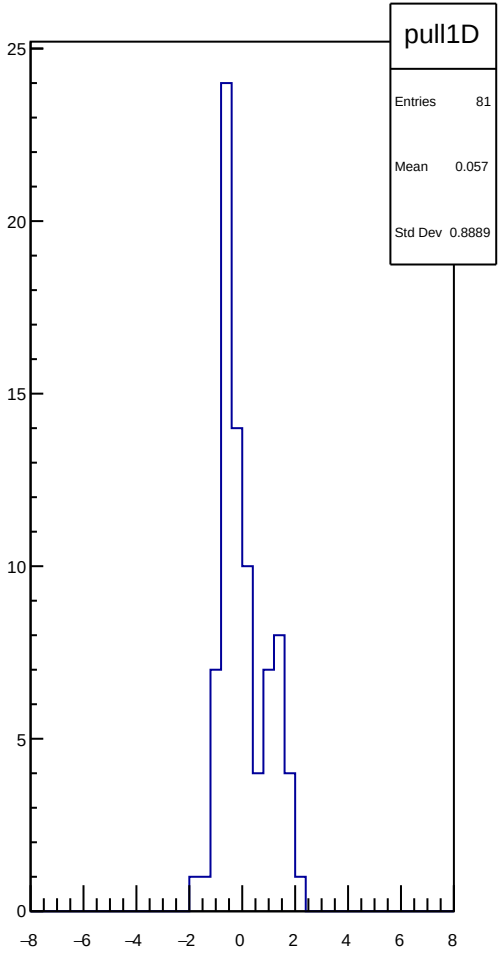

pull1D
Entries 81
Mean −0.002221
Std Dev 1.006

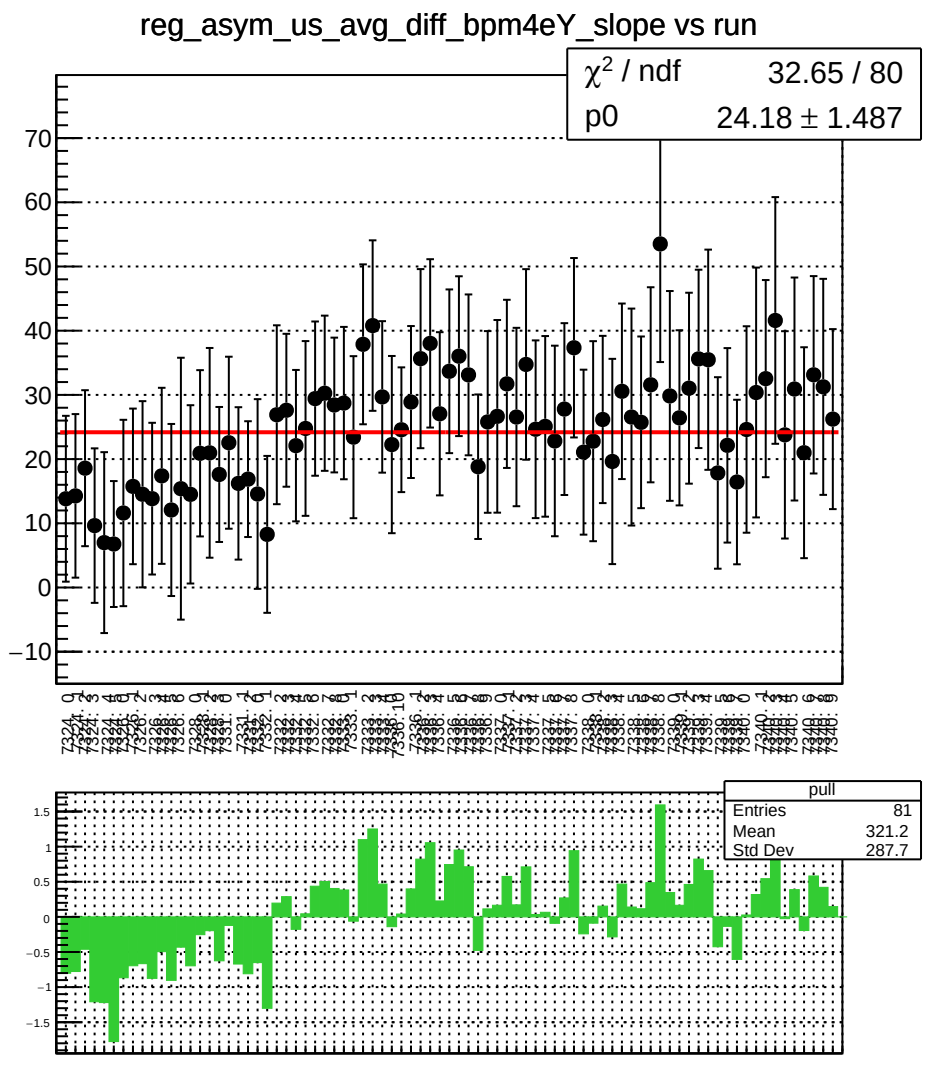

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 64.59 / 80
p0 −48.43 ± 1.571
pull
Entries 81
Mean −153.6
Std Dev 180.7
pull1D
Entries 81
Mean −0.05824
Std Dev 0.8911

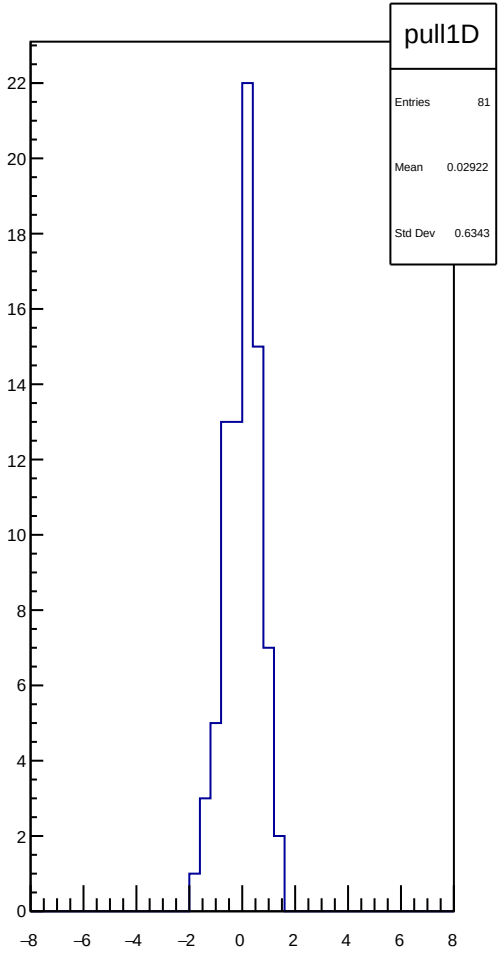

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 29.57 / 80
p0 −5.157 ± 1.413
pull
Entries 81
Mean 266.4
Std Dev 234.1

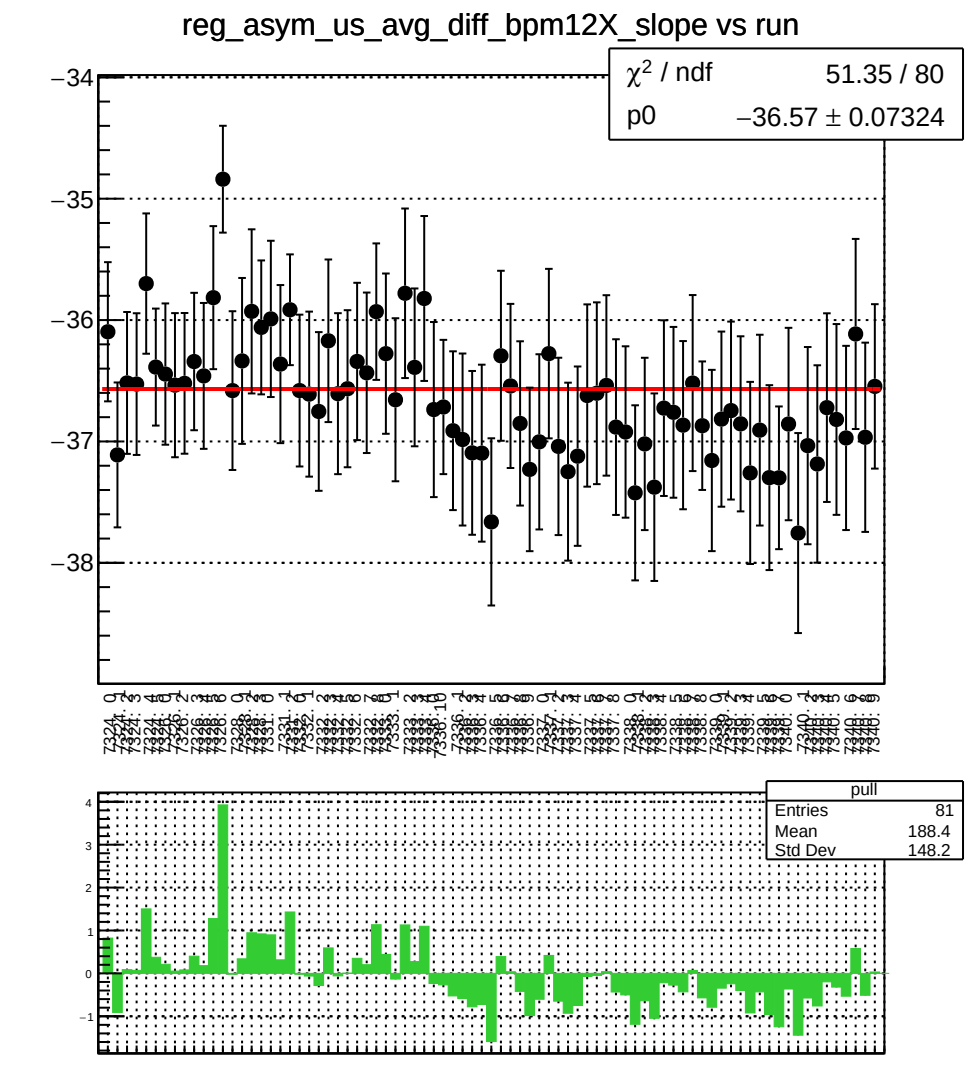

pull1D
Entries 81
Mean −0.02935
Std Dev 0.6035

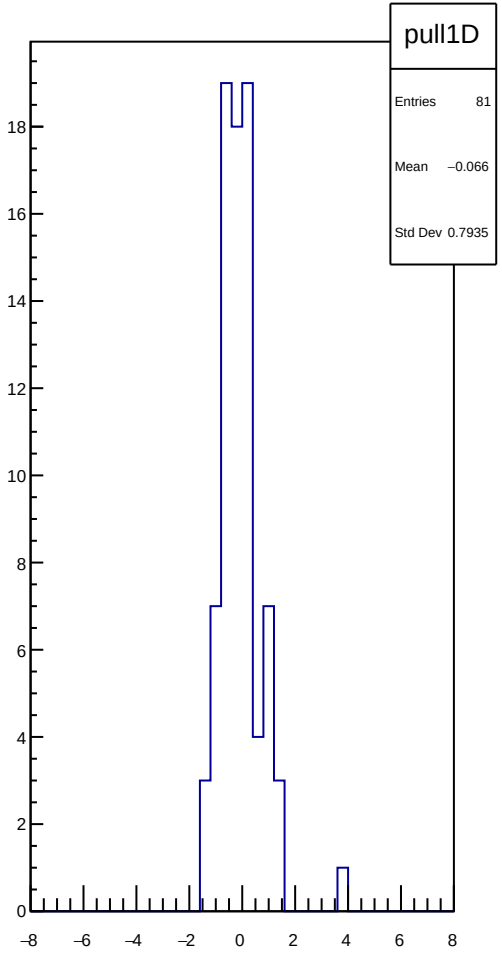

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 64.27 / 80
p0 47.04 ± 1.559
pull
Entries 81
Mean −167.9
Std Dev 196

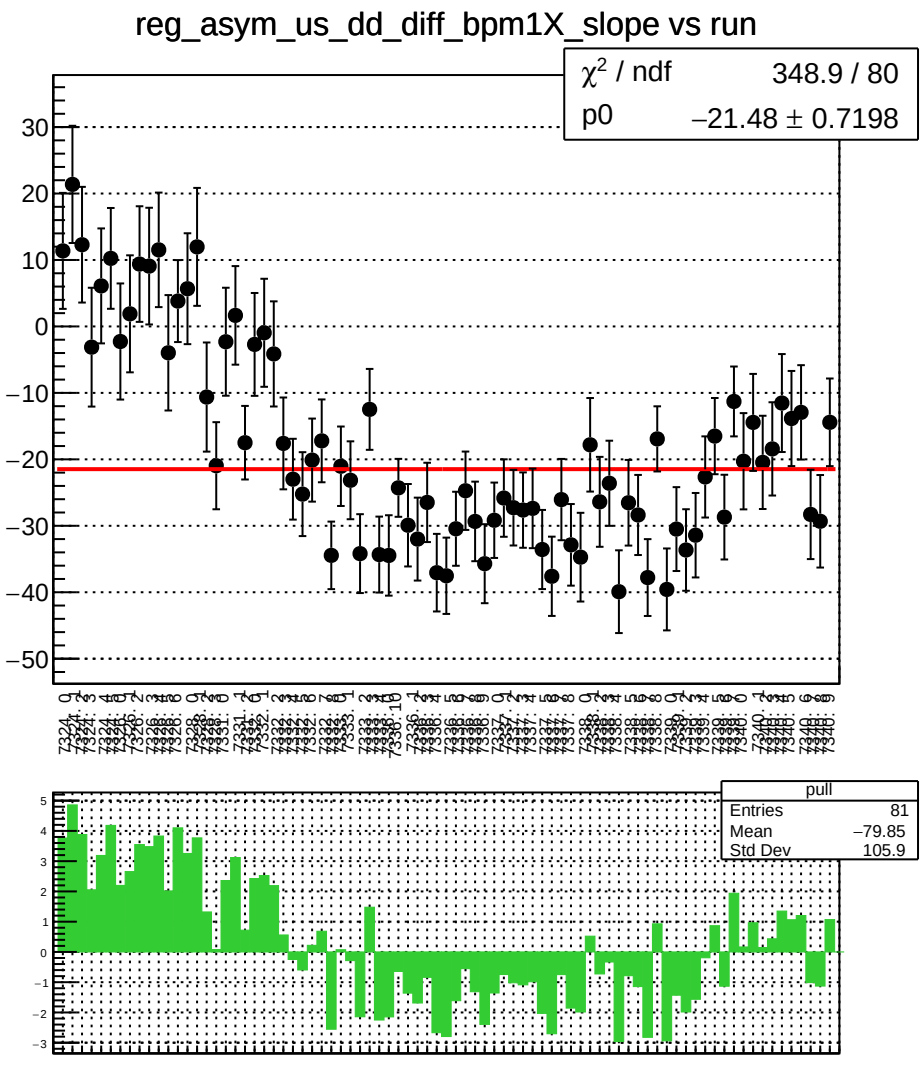

pull1D
Entries 81
Mean 0.057
Std Dev 0.8889

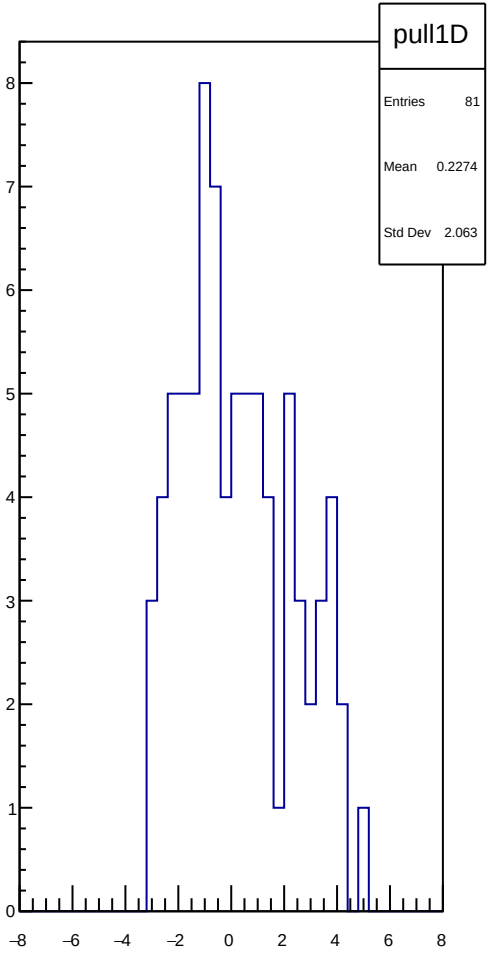

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 32.65 / 80
p0 24.18 ± 1.487
pull
Entries 81
Mean 321.2
Std Dev 287.7

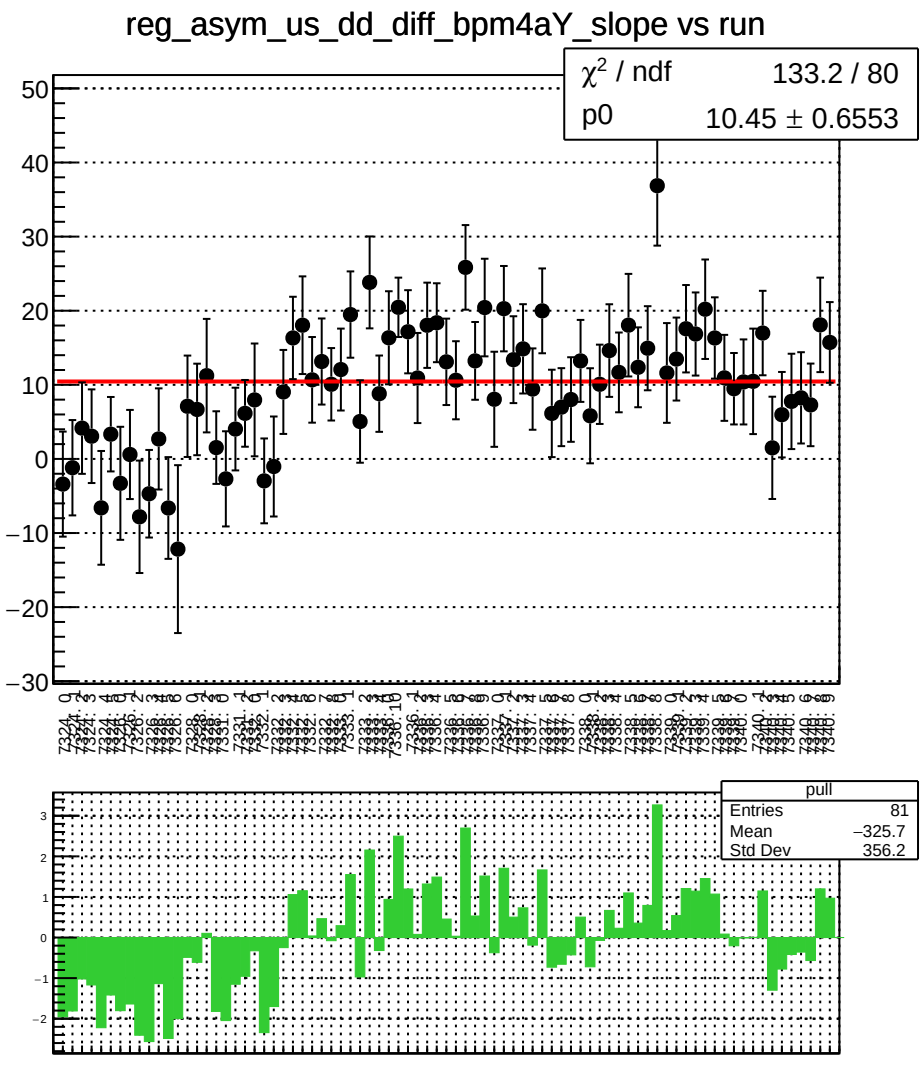

pull1D
Entries 81
Mean 0.02922
Std Dev 0.6343

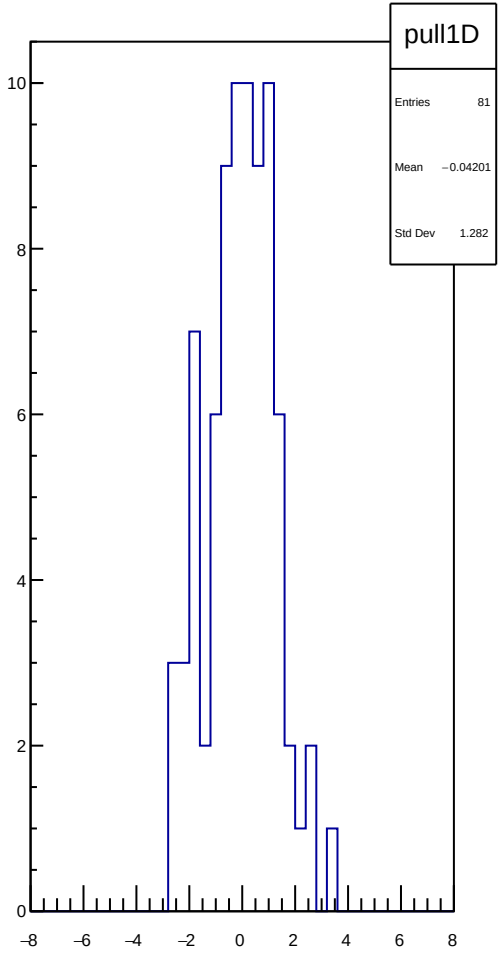

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 51.35 / 80
p0 −36.57 ± 0.07324
pull
Entries 81
Mean 188.4
Std Dev 148.2

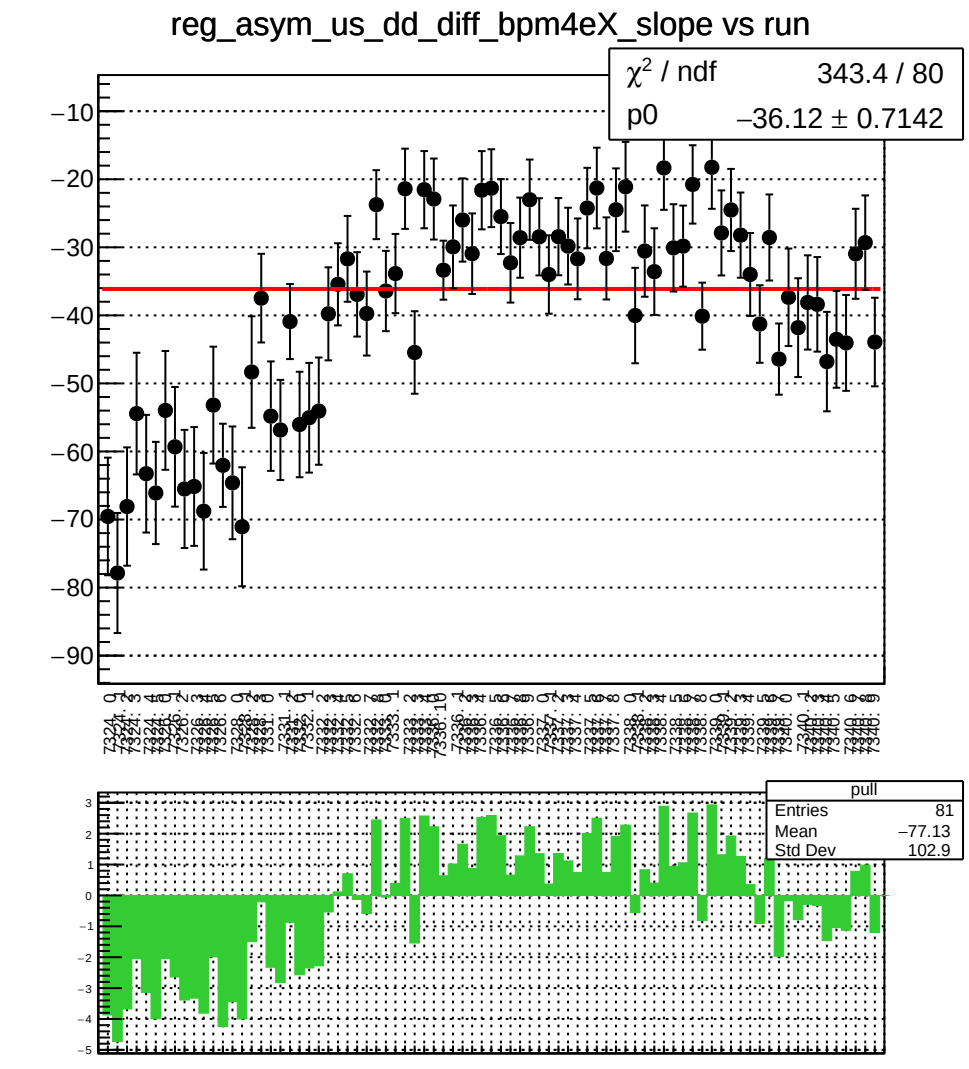

pull1D
Entries 81
Mean −0.066
Std Dev 0.7935

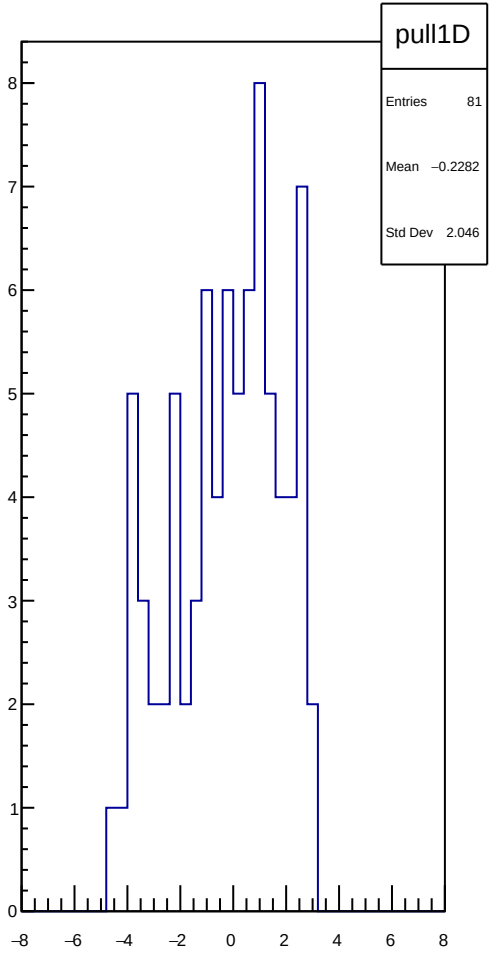

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 348.9 / 80
p0 −21.48 ± 0.7198
pull
Entries 81
Mean −79.85
Std Dev 105.9

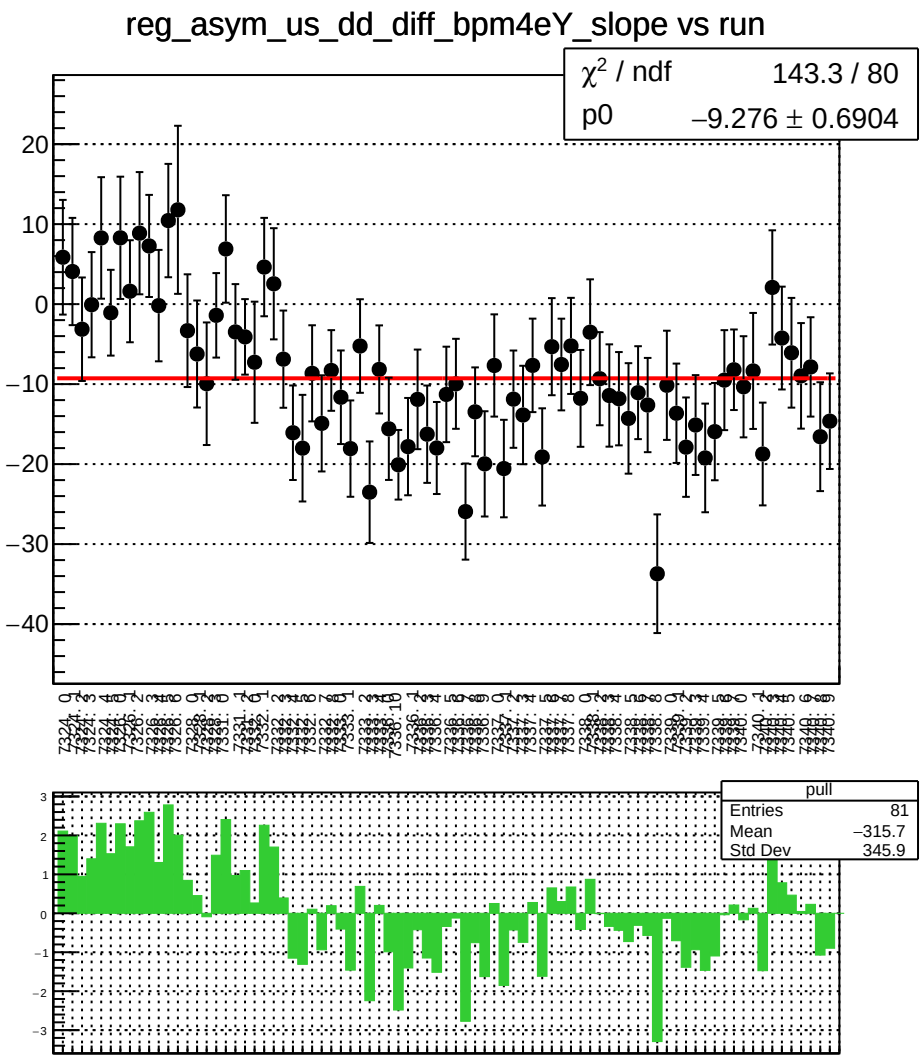

pull1D
Entries 81
Mean 0.2274
Std Dev 2.063

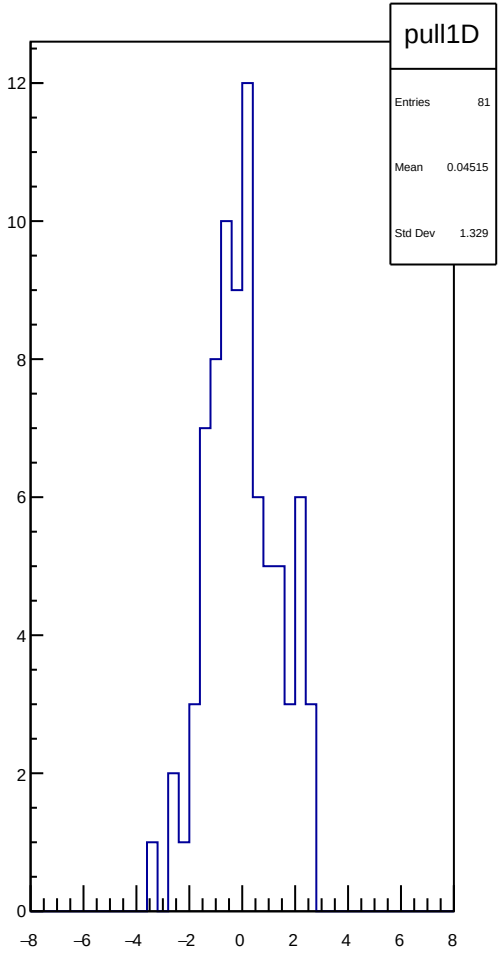

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 133.2 / 80
p0 10.45 ± 0.6553
pull
Entries 81
Mean −325.7
Std Dev 356.2

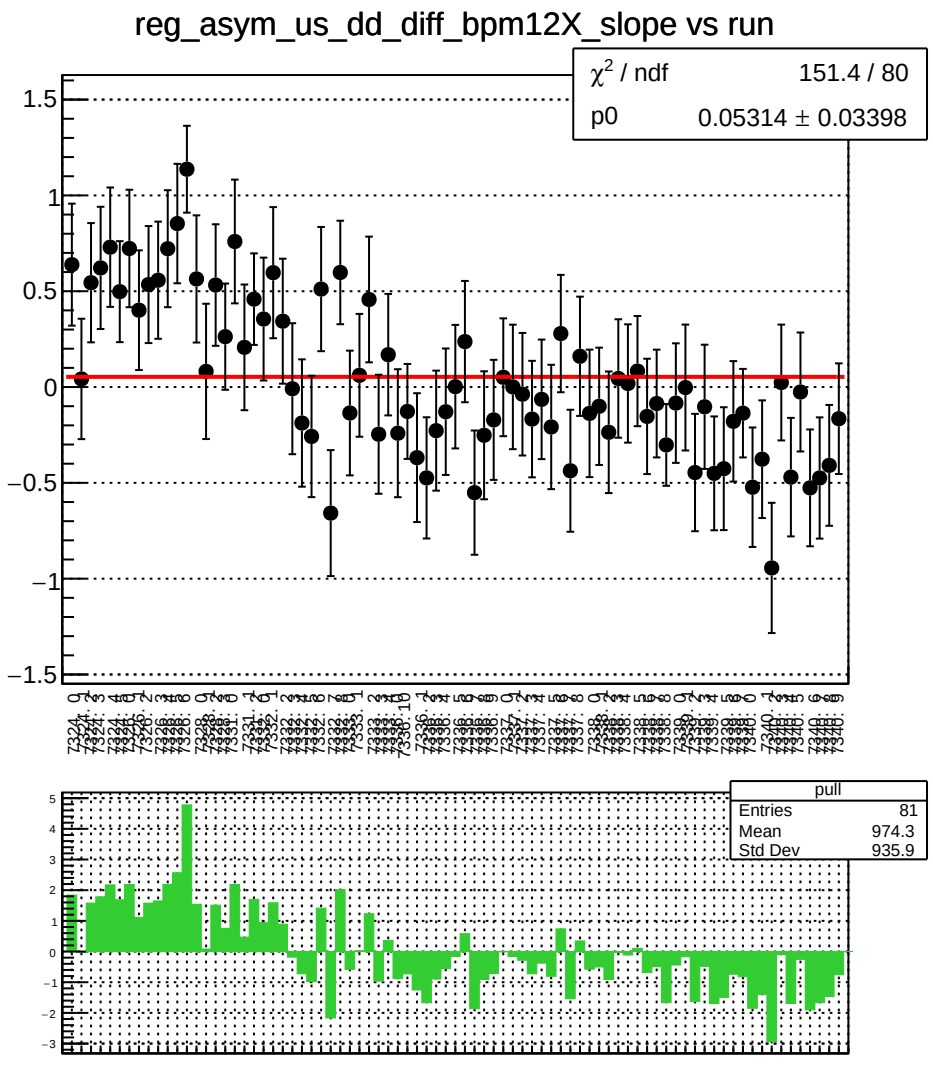

pull1D
Entries 81
Mean −0.04201
Std Dev 1.282

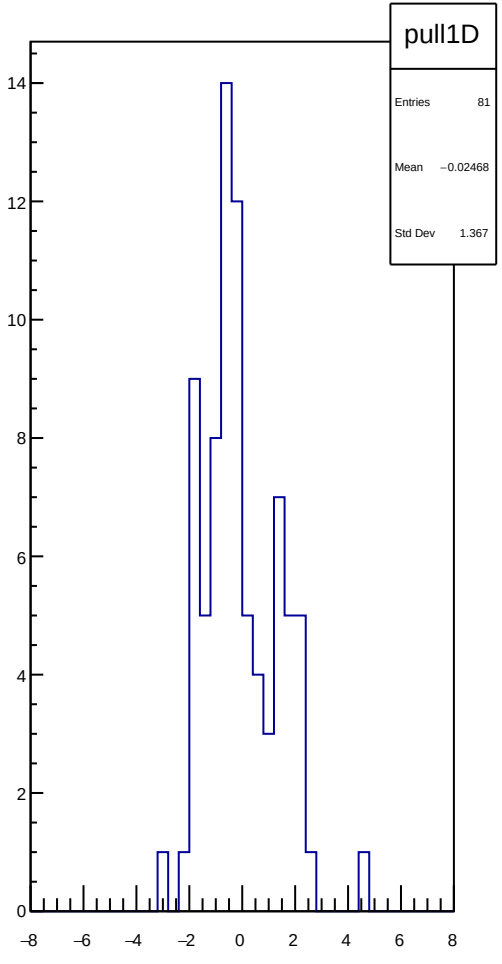

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 343.4 / 80
p0 −36.12 ± 0.7142
pull
Entries 81
Mean −77.13
Std Dev 102.9

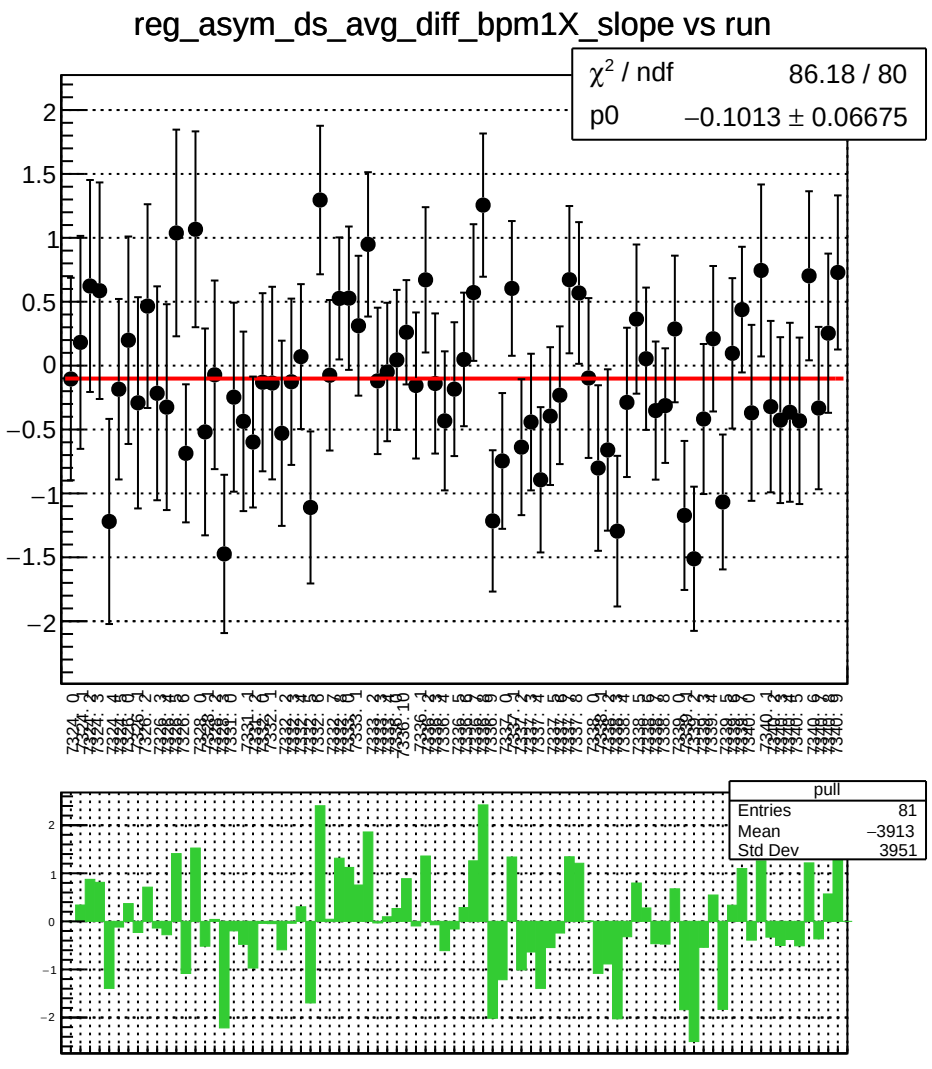

pull1D
Entries 81
Mean −0.2282
Std Dev 2.046

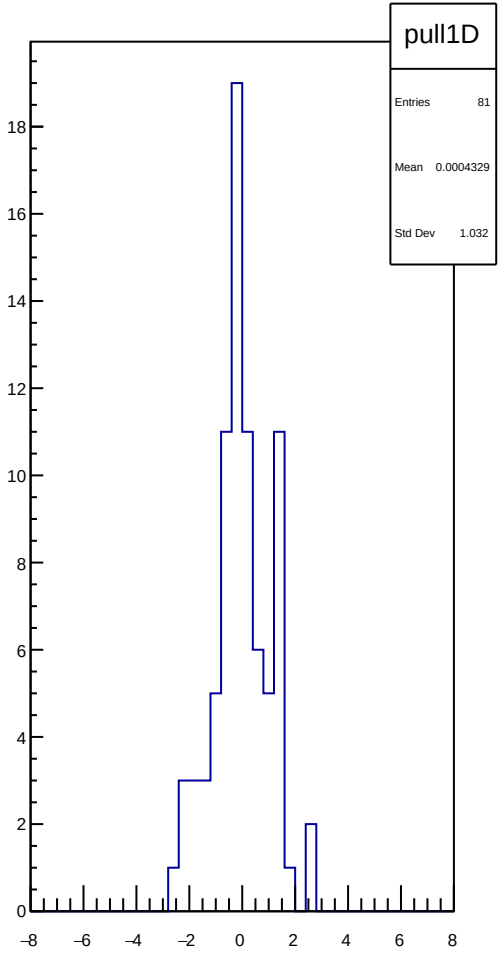

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 143.3 / 80
p0 −9.276 ± 0.6904
pull
Entries 81
Mean −315.7
Std Dev 345.9

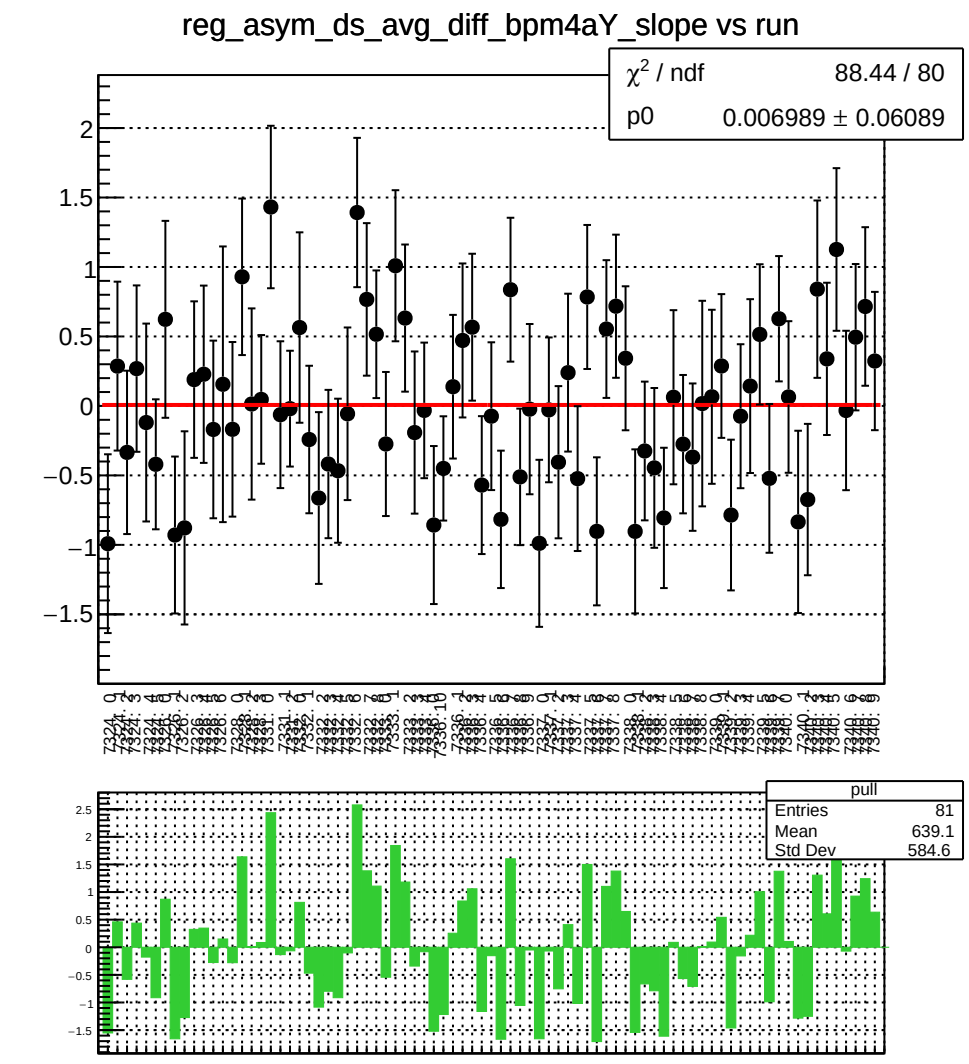

pull1D
Entries 81
Mean 0.04515
Std Dev 1.329

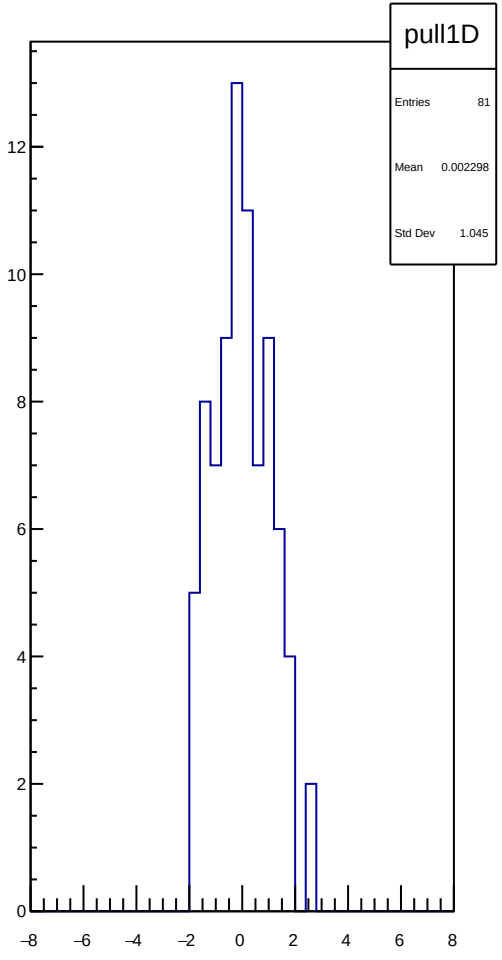

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 151.4 / 80
p0 0.05314 ± 0.03398
pull
Entries 81
Mean 974.3
Std Dev 935.9

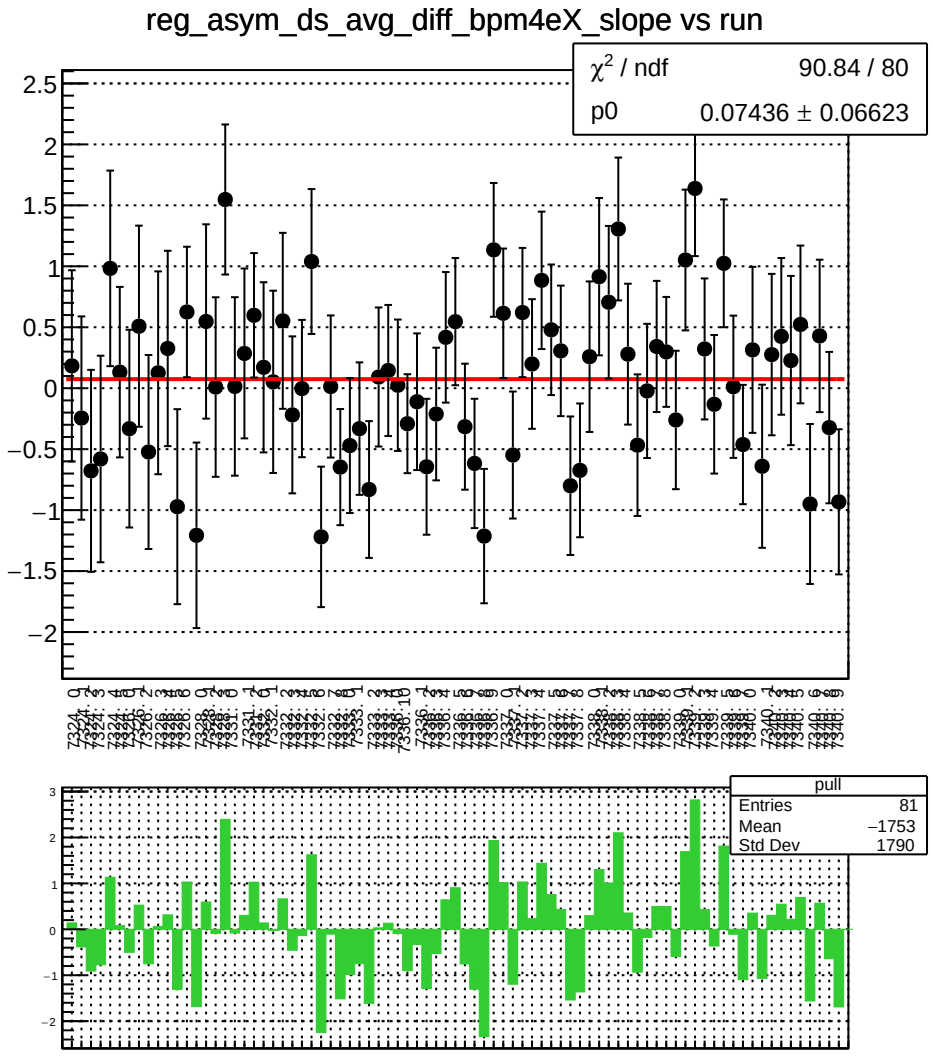

pull1D
Entries 81
Mean −0.02468
Std Dev 1.367

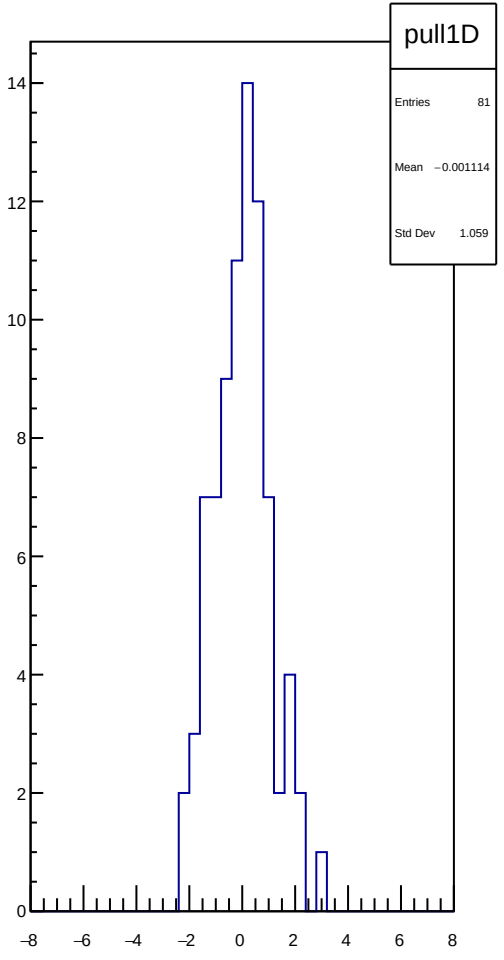

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 86.18 / 80
p0 −0.1013 ± 0.06675
pull
Entries 81
Mean −3913
Std Dev 3951

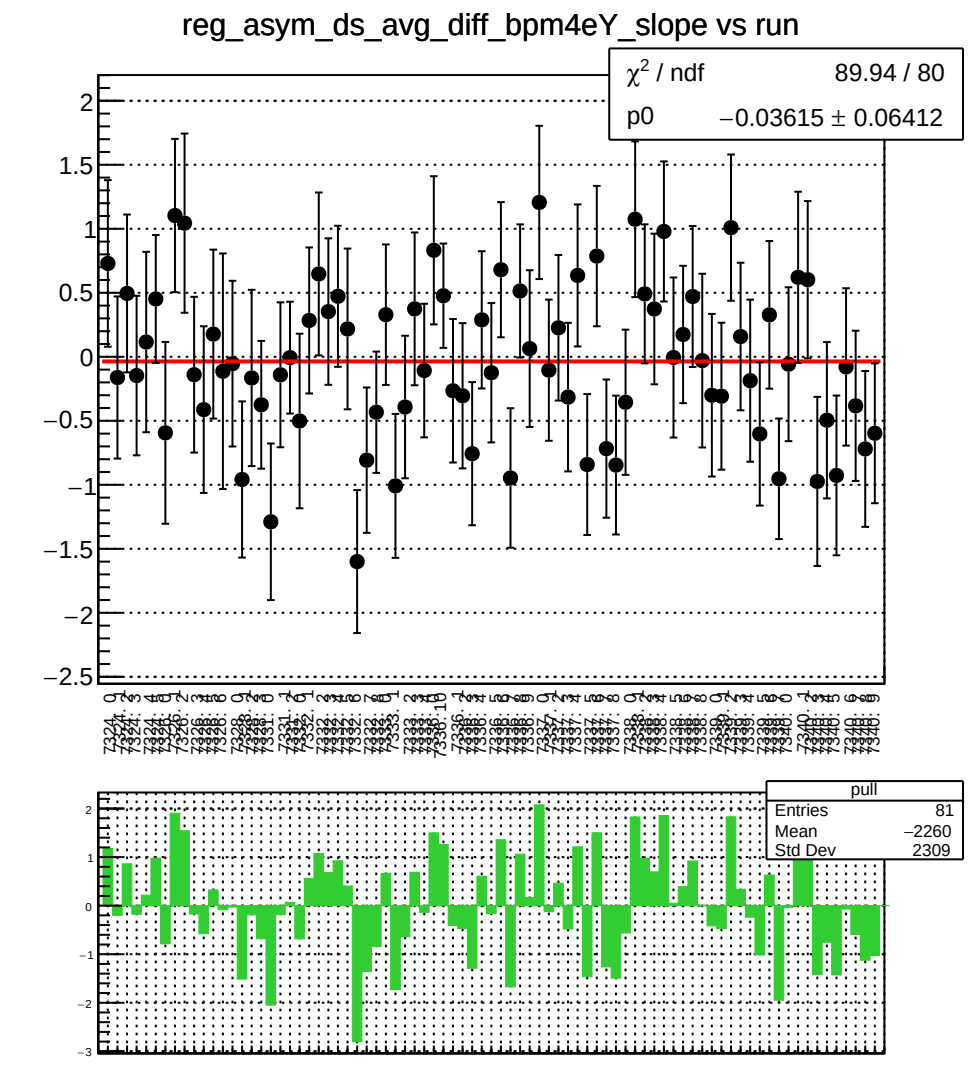

pull1D
Entries 81
Mean 0.0004329
Std Dev 1.032

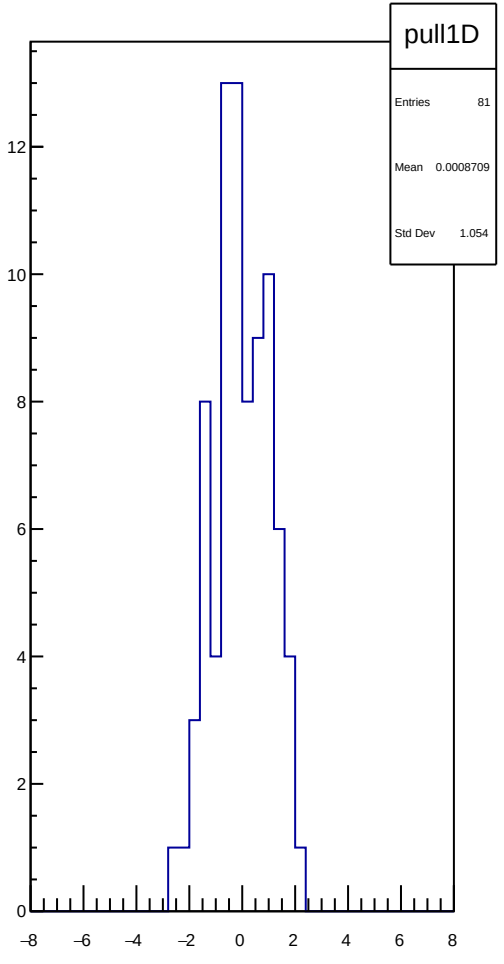

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 88.44 / 80
p0 0.006989 ± 0.06089
pull
Entries 81
Mean 639.1
Std Dev 584.6

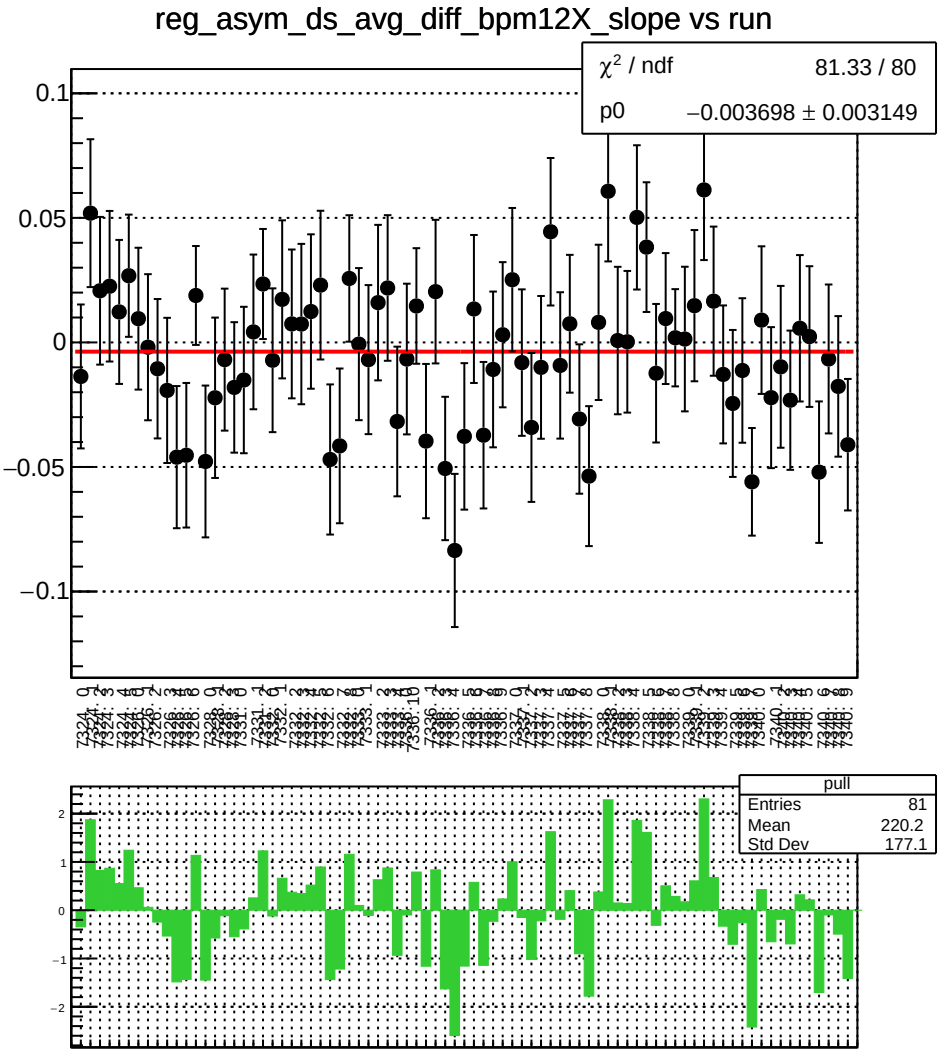

pull1D
Entries 81
Mean 0.002298
Std Dev 1.045

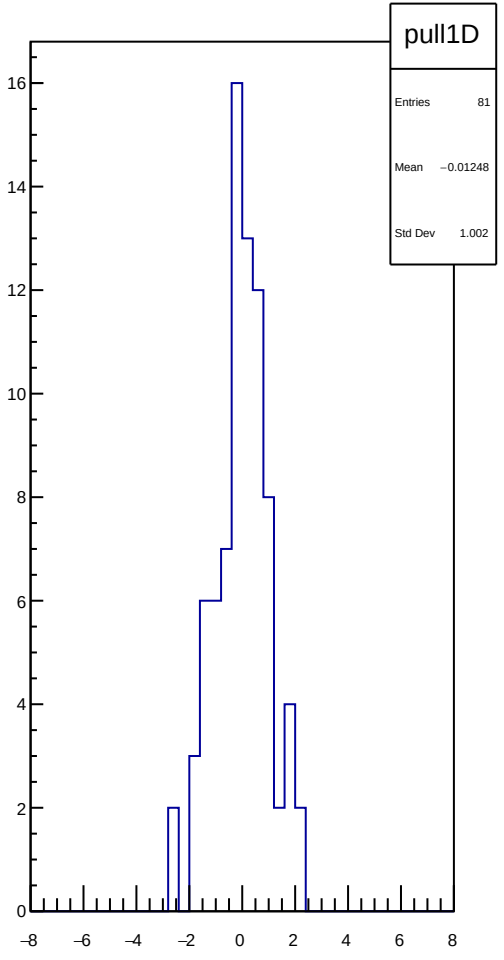

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 90.84 / 80
p0 0.07436 ± 0.06623
pull
Entries 81
Mean −1753
Std Dev 1790

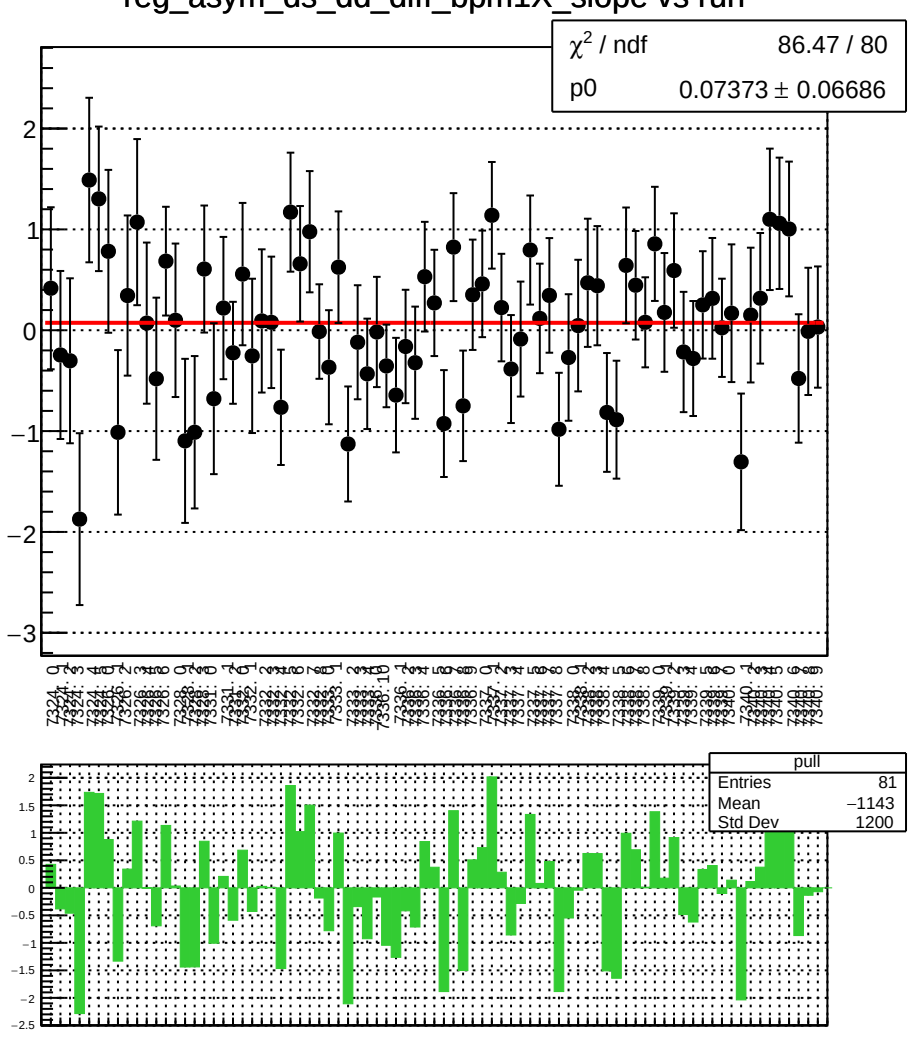

pull1D
Entries 81
Mean −0.001114
Std Dev 1.059

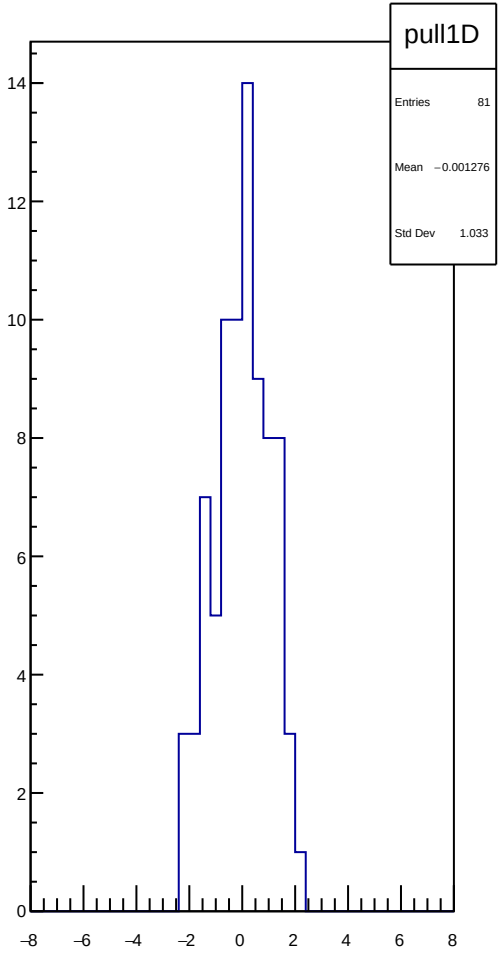

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 89.94 / 80
p0 −0.03615 ± 0.06412
pull
Entries 81
Mean −2260
Std Dev 2309

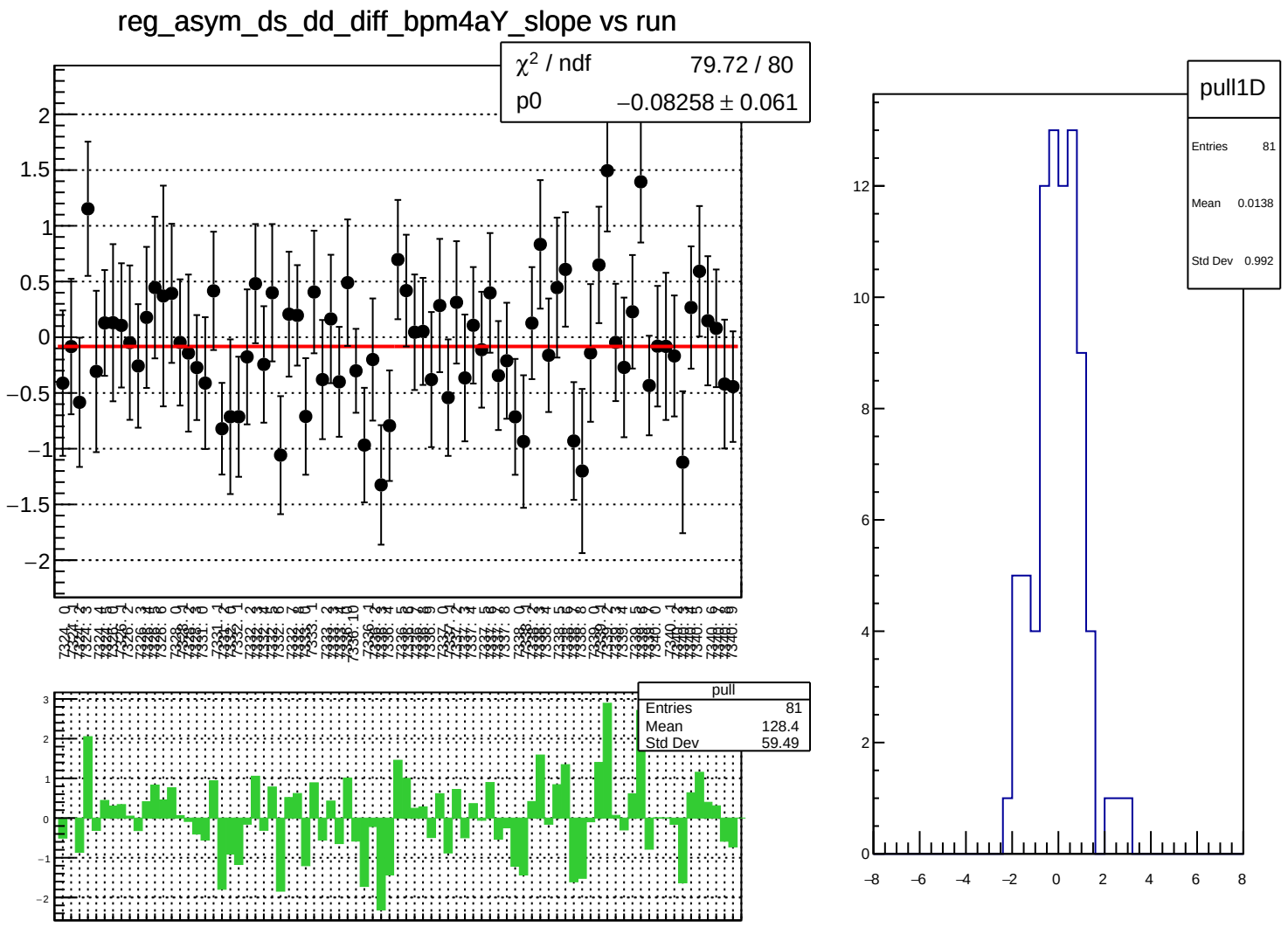

pull1D
Entries 81
Mean 0.0008709
Std Dev 1.054

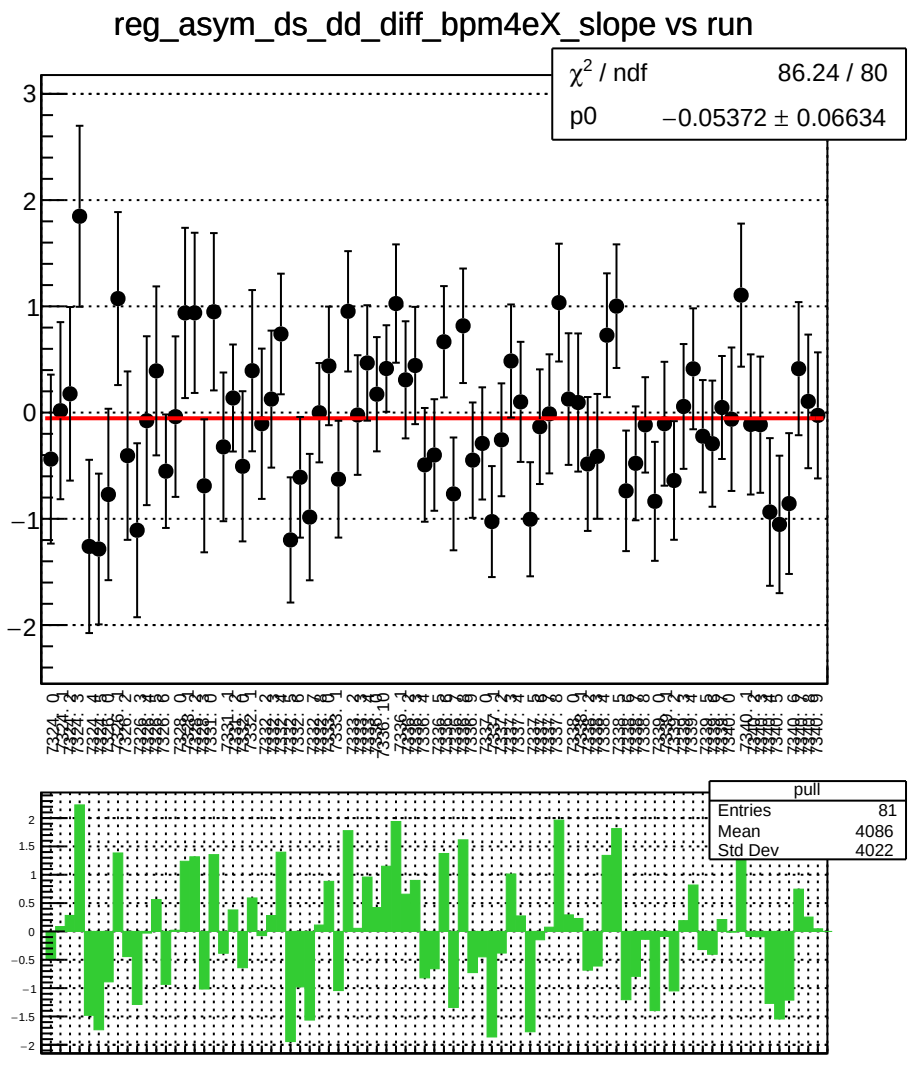

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 81.33 / 80
p0 −0.003698 ± 0.003149
pull
Entries 81
Mean 220.2
Std Dev 177.1

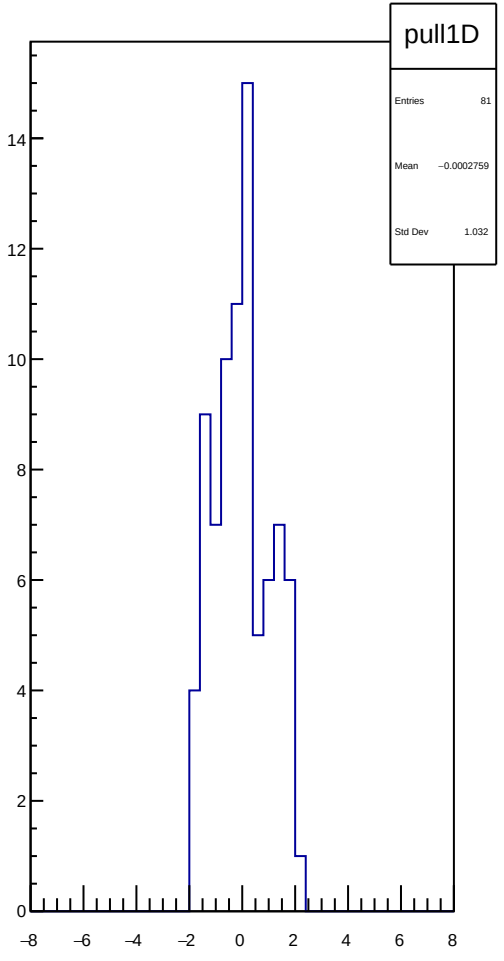

pull1D
Entries 81
Mean −0.01248
Std Dev 1.002

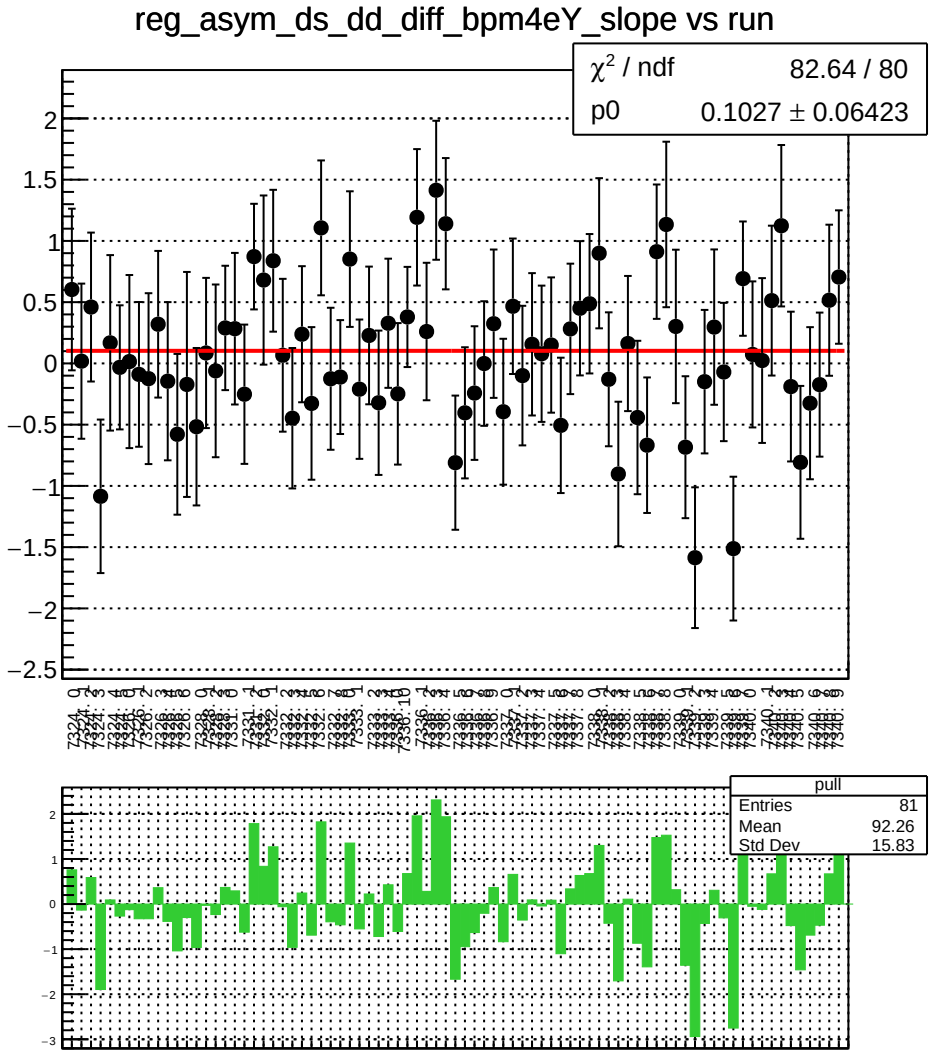

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 86.47 / 80
p0 0.07373 ± 0.06686
pull
Entries 81
Mean −1143
Std Dev 1200

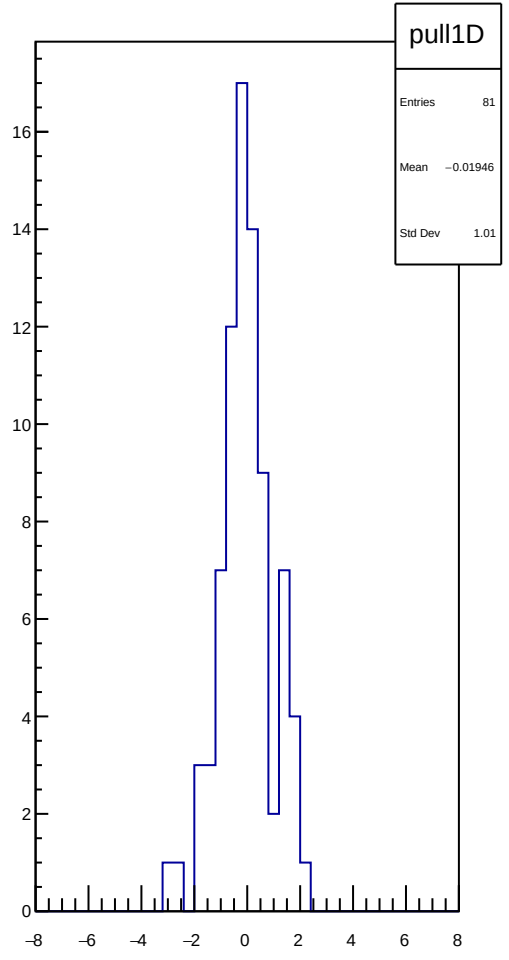

pull1D
Entries 81
Mean −0.001276
Std Dev 1.033

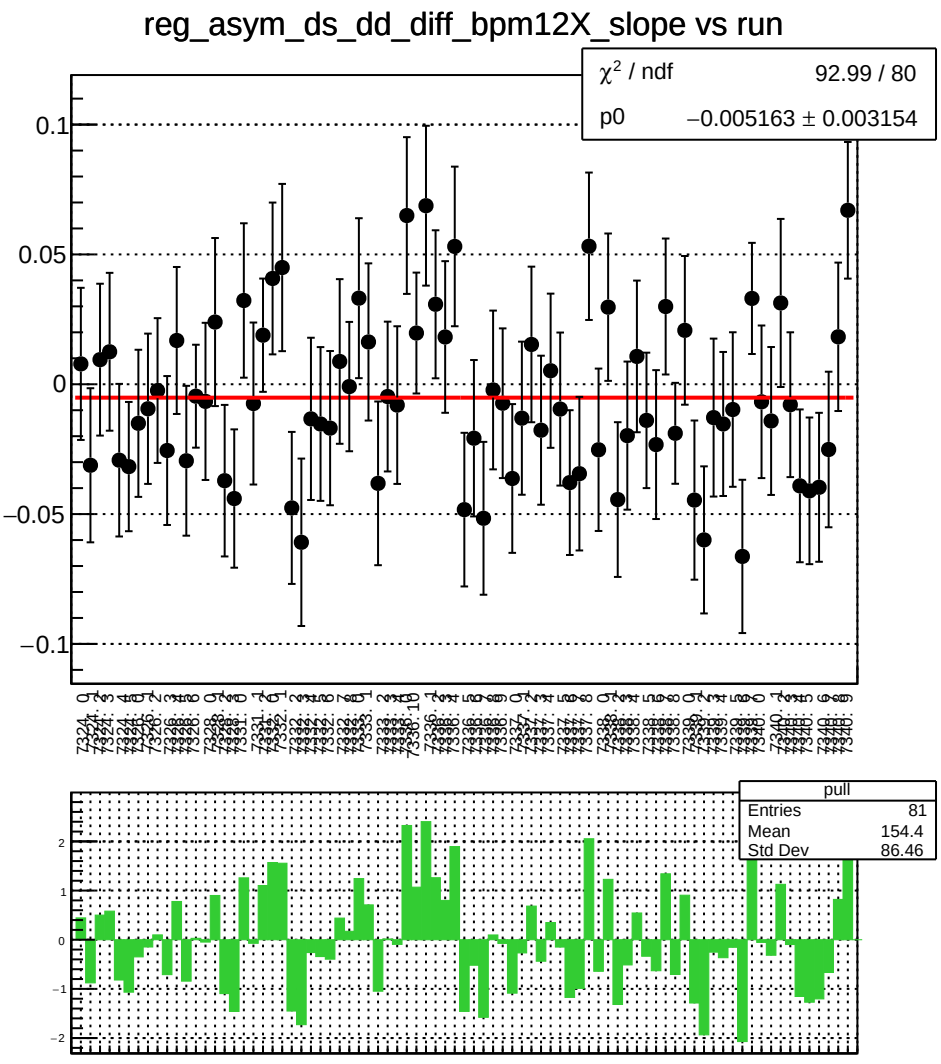

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.72 / 80
p0 −0.08258 ± 0.061
pull
Entries 81
Mean 128.4
Std Dev 59.49
pull1D
Entries 81
Mean 0.0138
Std Dev 0.992

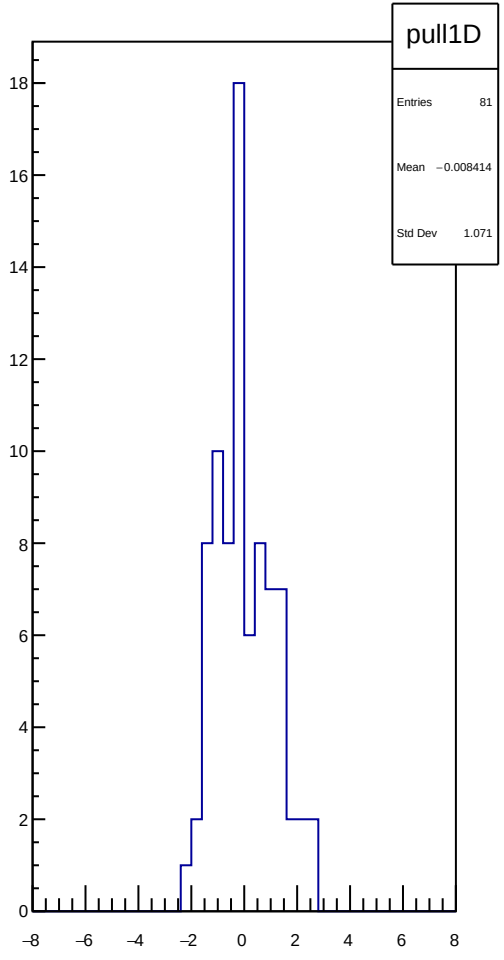

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 86.24 / 80
p0 −0.05372 ± 0.06634
pull
Entries 81
Mean 4086
Std Dev 4022

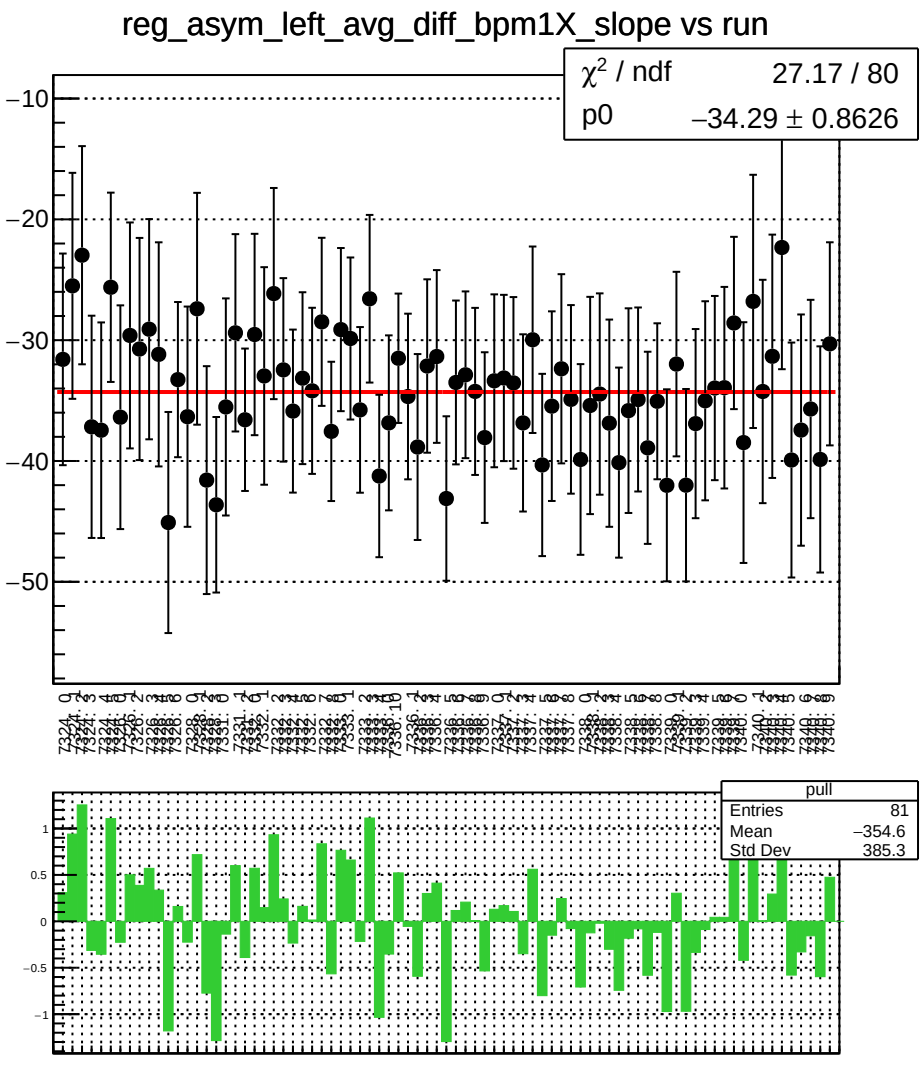

pull1D
Entries 81
Mean −0.0002759
Std Dev 1.032

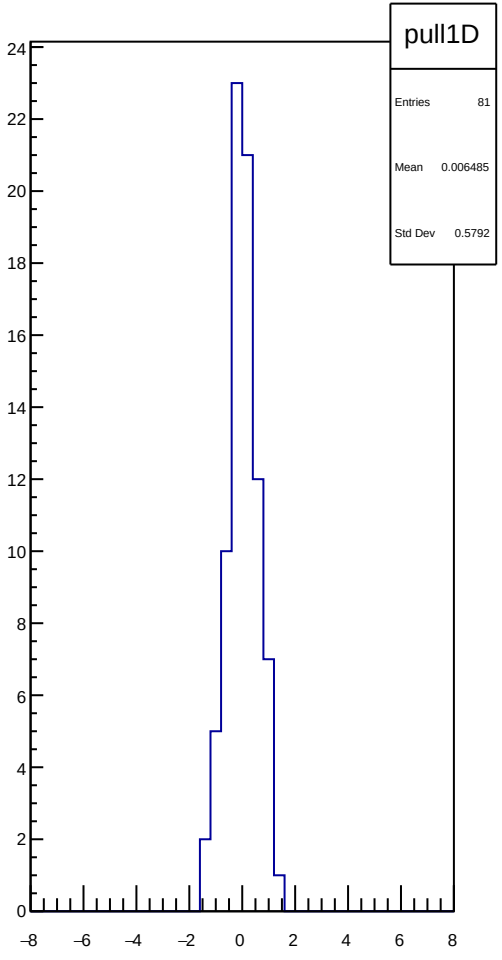

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 82.64 / 80
p0 0.1027 ± 0.06423
pull
Entries 81
Mean 92.26
Std Dev 15.83

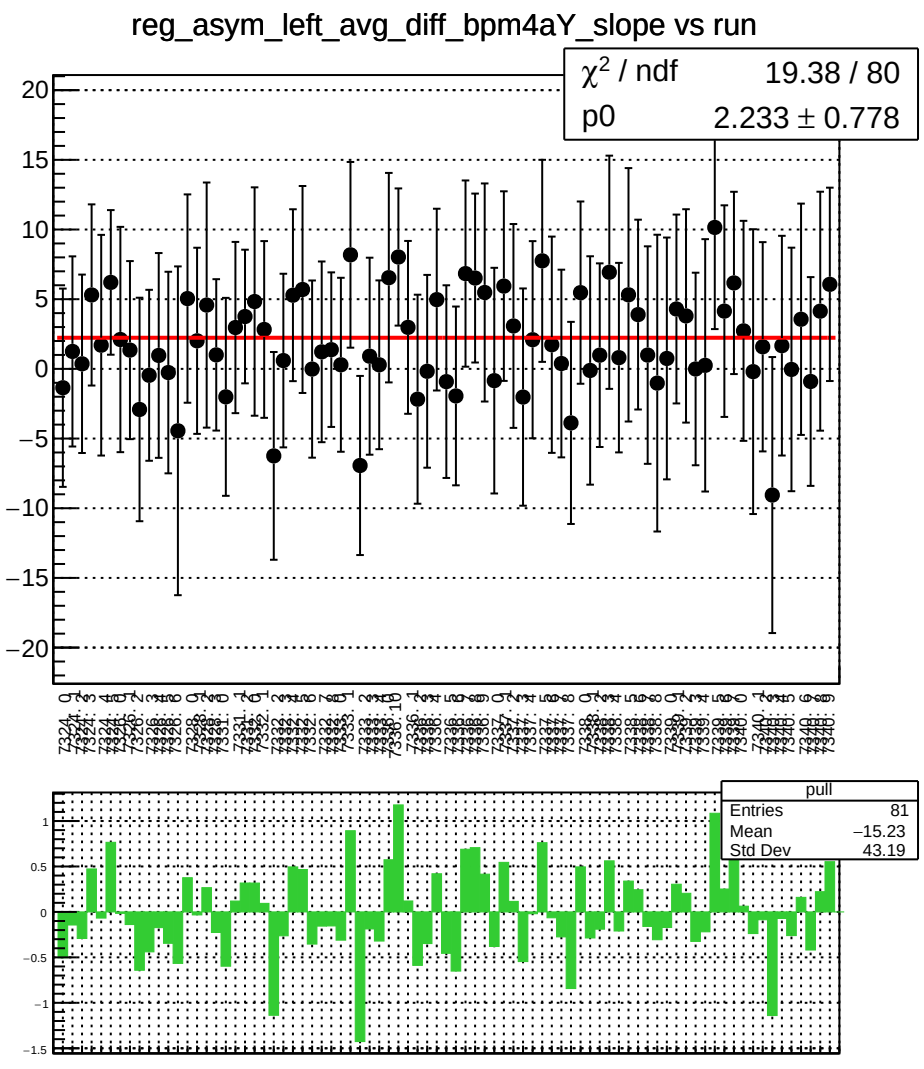

pull1D
Entries 81
Mean −0.01946
Std Dev 1.01

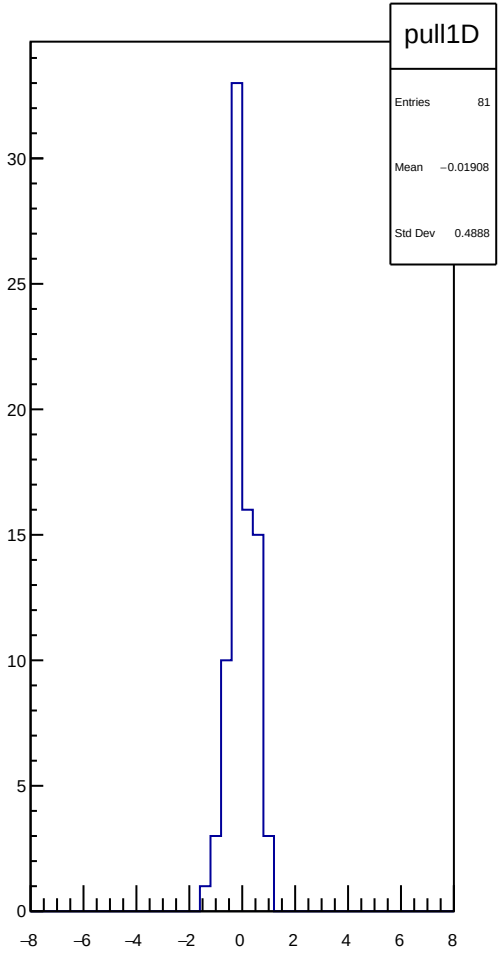

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 92.99 / 80
p0 −0.005163 ± 0.003154
pull
Entries 81
Mean 154.4
Std Dev 86.46

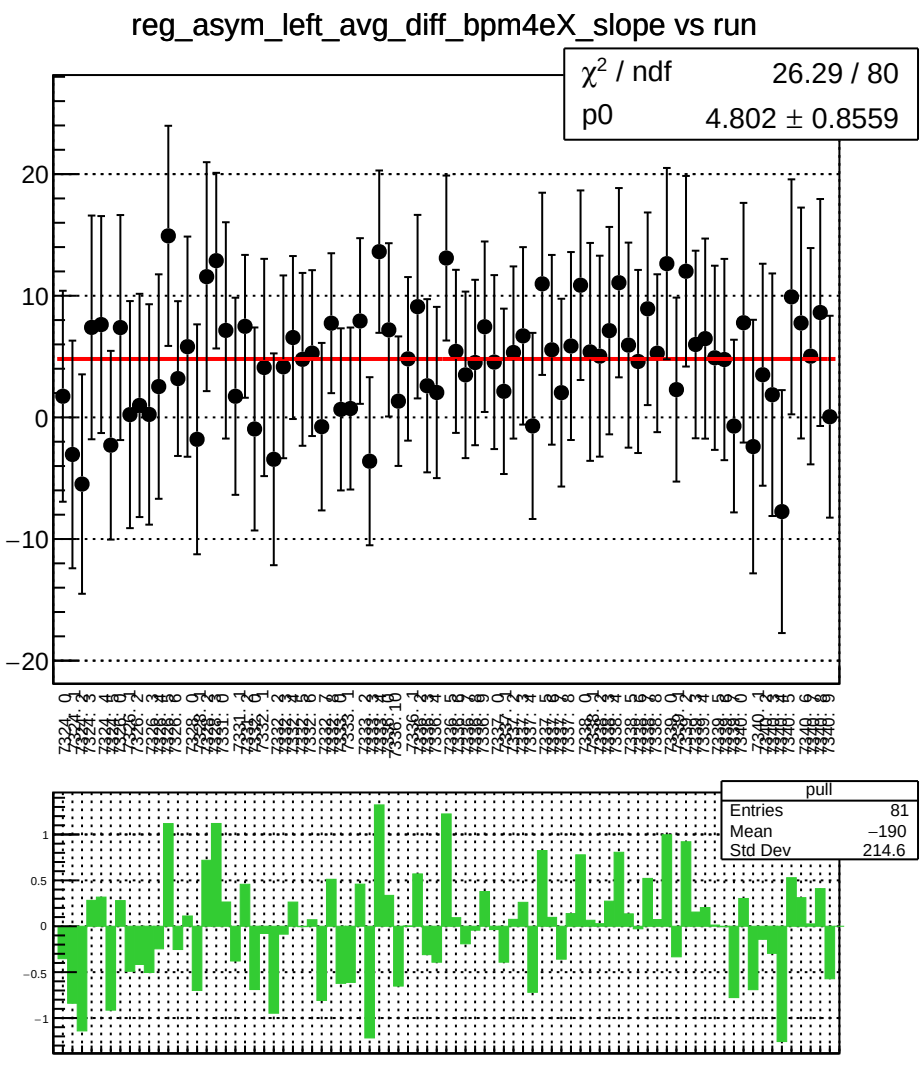

pull1D
Entries 81
Mean −0.008414
Std Dev 1.071

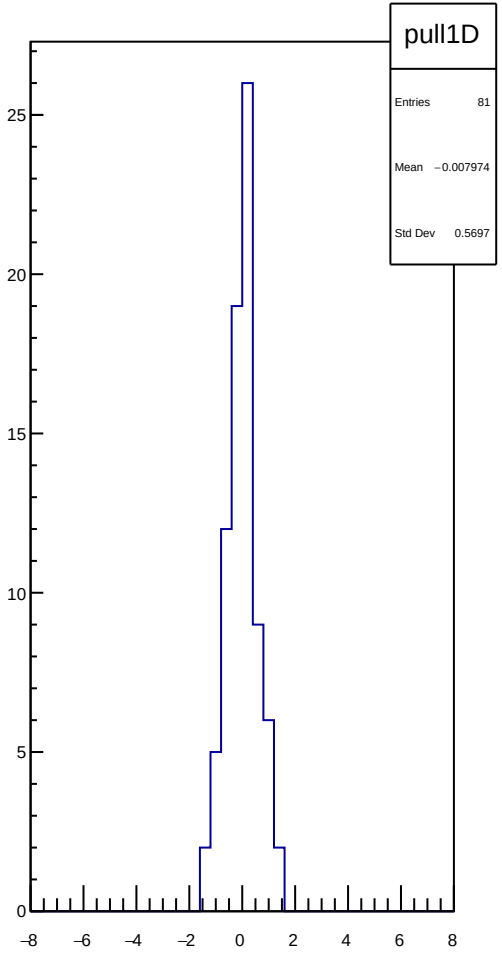

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 27.17 / 80
p0 −34.29 ± 0.8626
pull
Entries 81
Mean −354.6
Std Dev 385.3

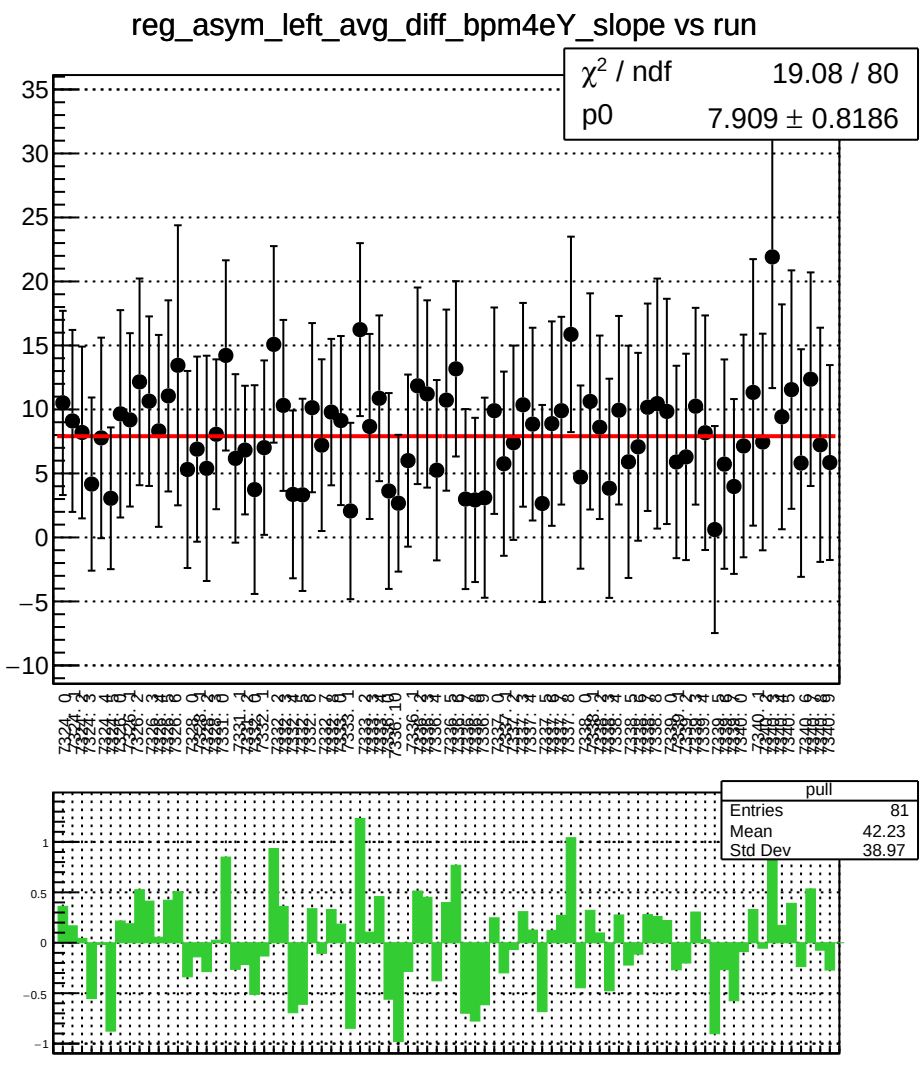

pull1D
Entries 81
Mean 0.006485
Std Dev 0.5792

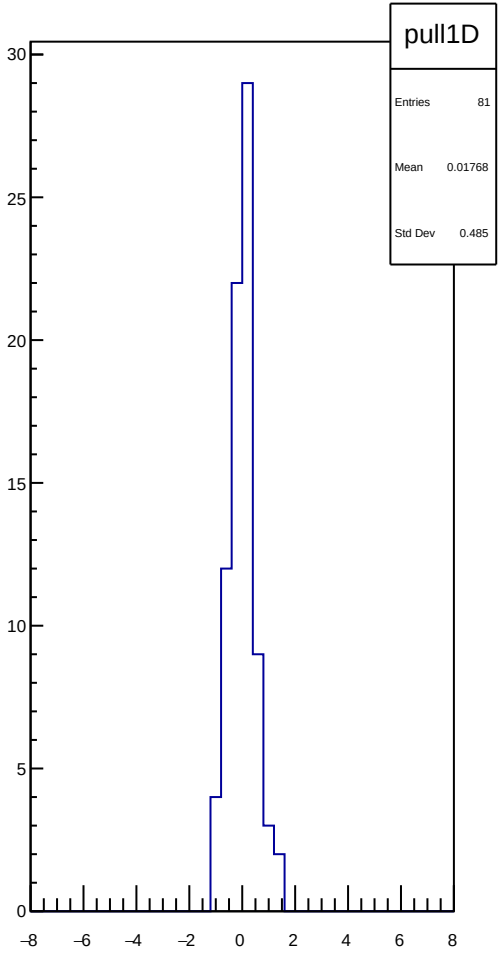

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 19.38 / 80
p0 2.233 ± 0.778
pull
Entries 81
Mean −15.23
Std Dev 43.19

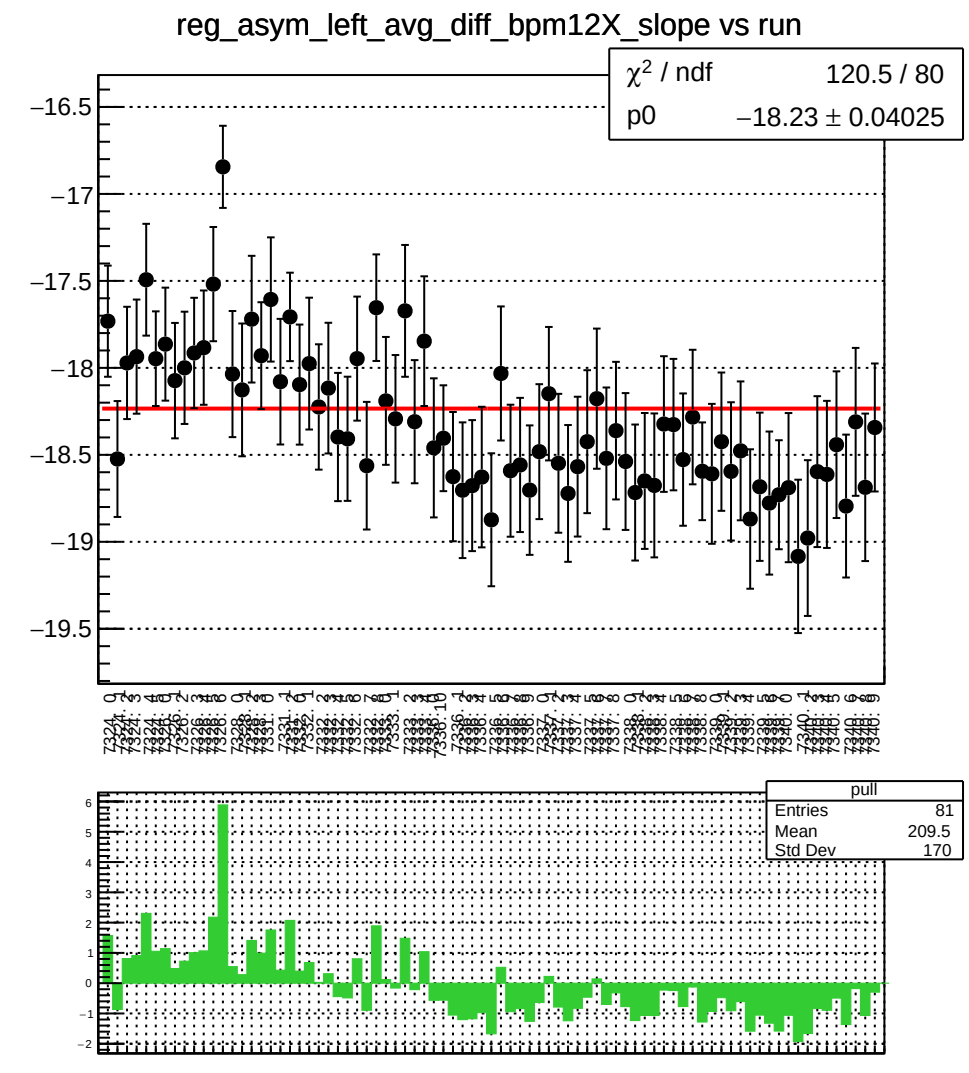

pull1D
Entries 81
Mean −0.01908
Std Dev 0.4888

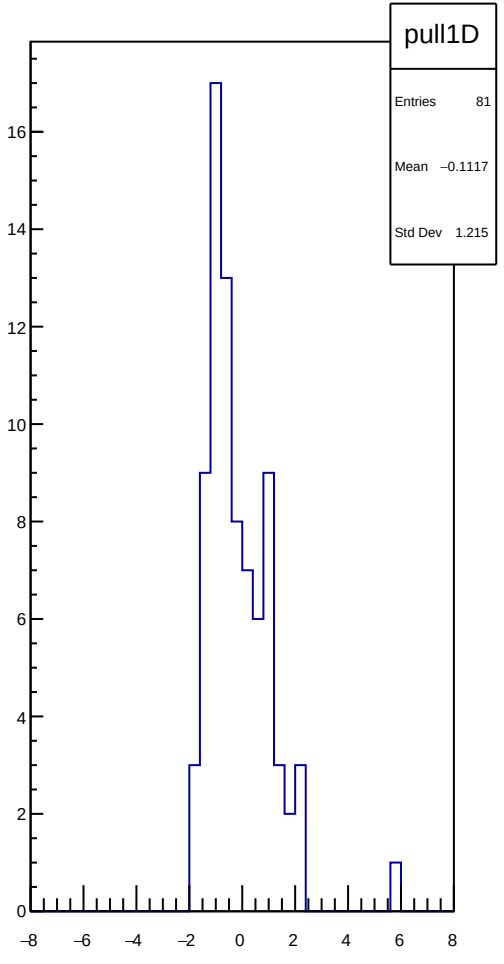

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.29 / 80
p0 4.802 ± 0.8559
pull
Entries 81
Mean −190
Std Dev 214.6

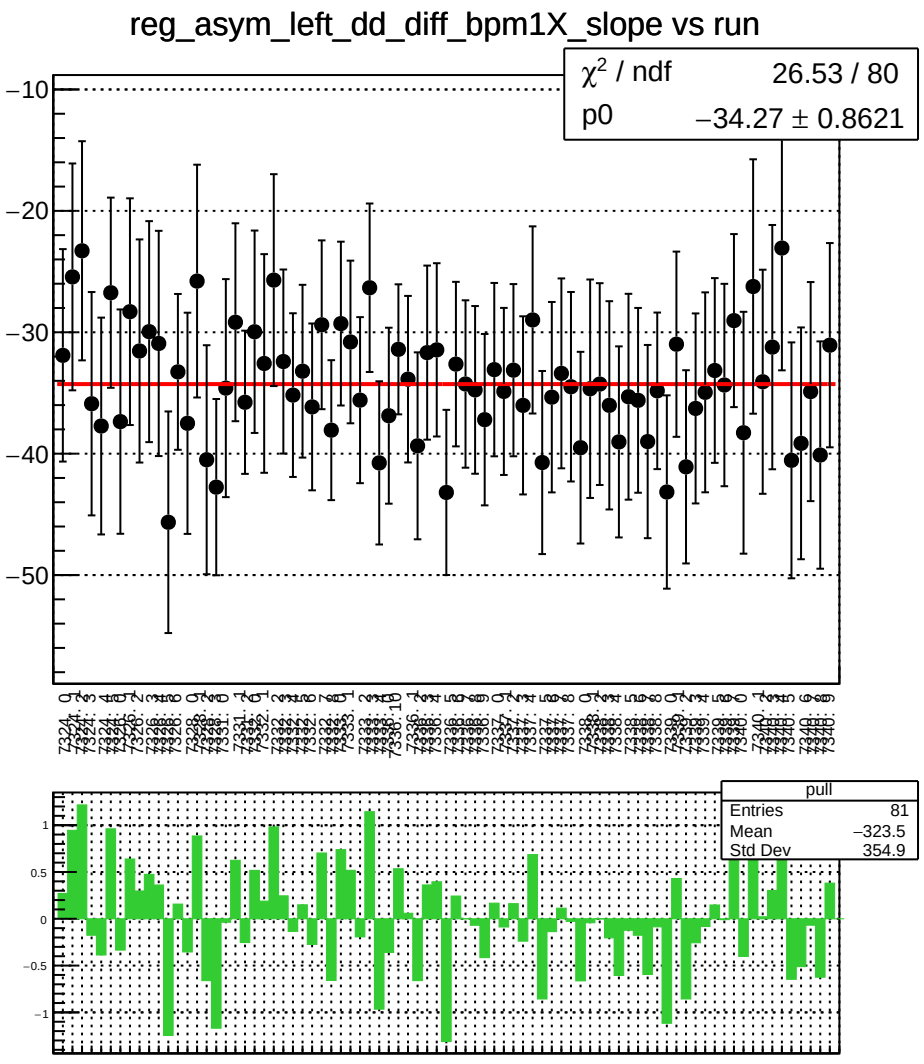

pull1D
Entries 81
Mean −0.007974
Std Dev 0.5697

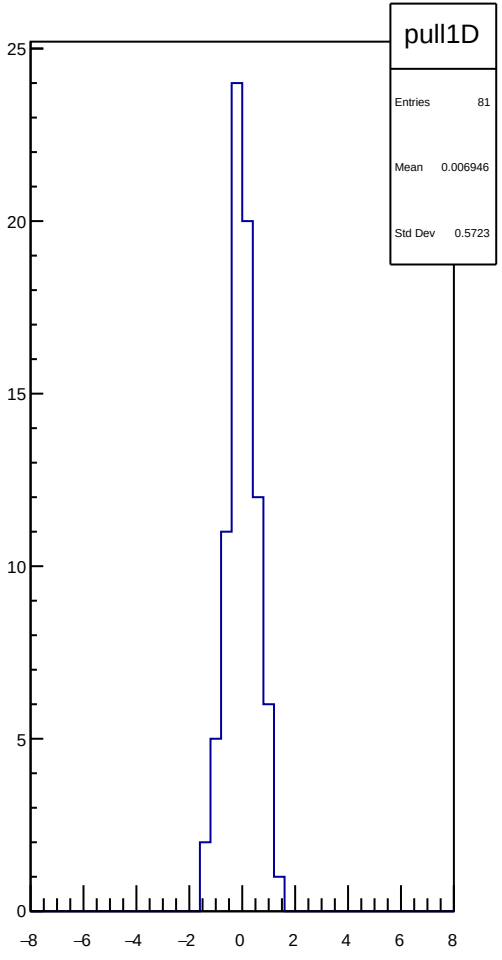

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.08 / 80
p0 7.909 ± 0.8186
pull
Entries 81
Mean 42.23
Std Dev 38.97

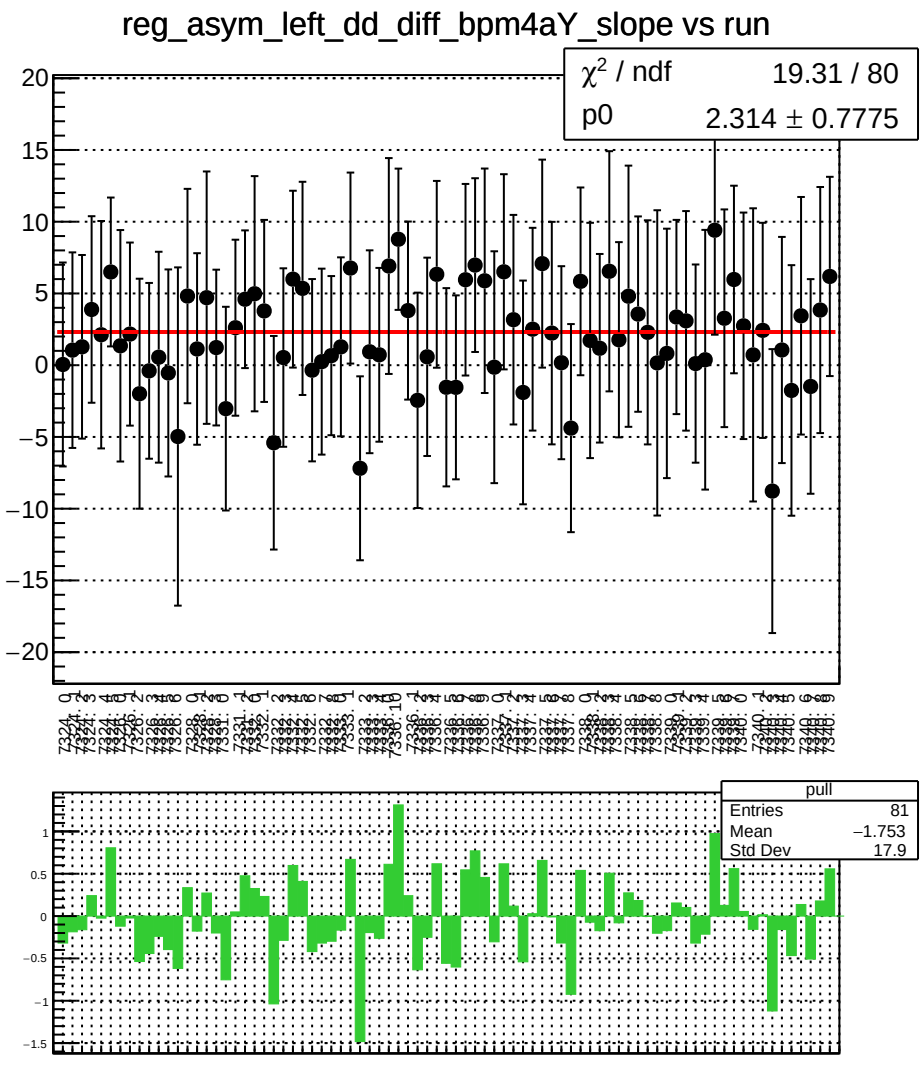

pull1D
Entries 81
Mean 0.01768
Std Dev 0.485

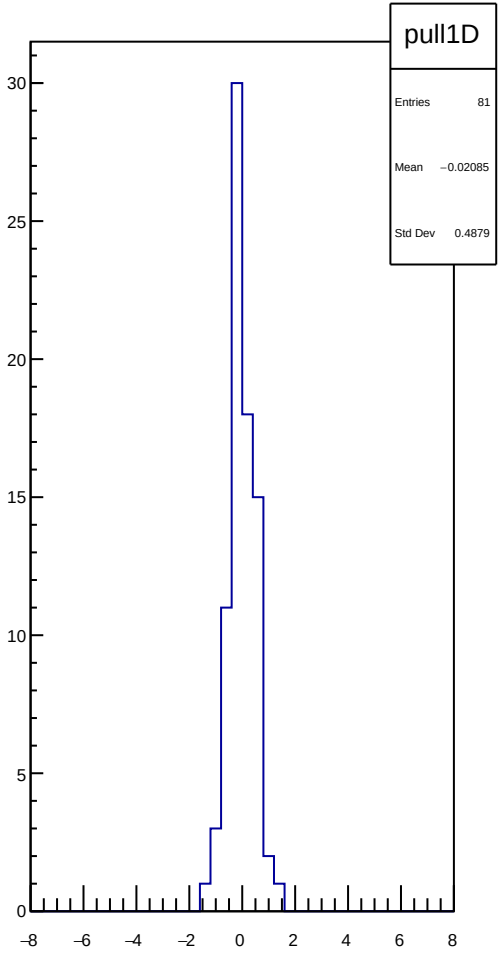

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 120.5 / 80
p0 −18.23 ± 0.04025
pull
Entries 81
Mean 209.5
Std Dev 170

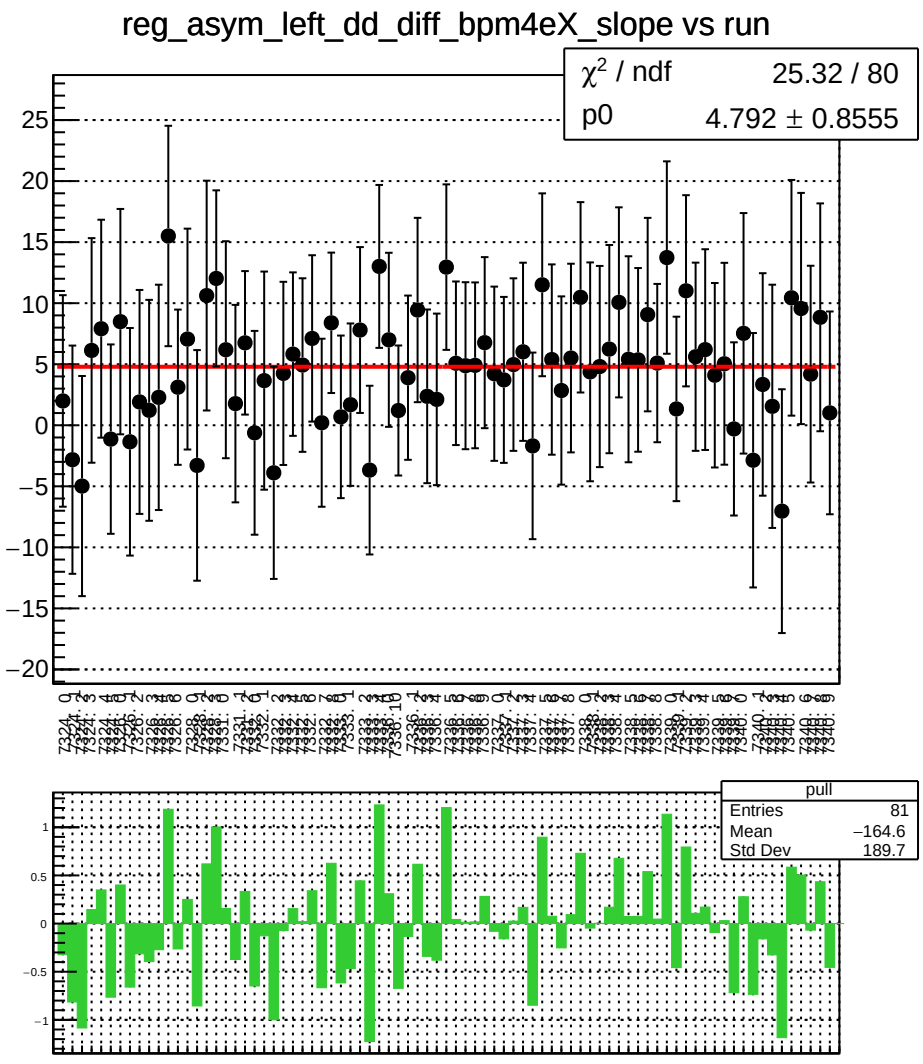

pull1D
Entries 81
Mean −0.1117
Std Dev 1.215

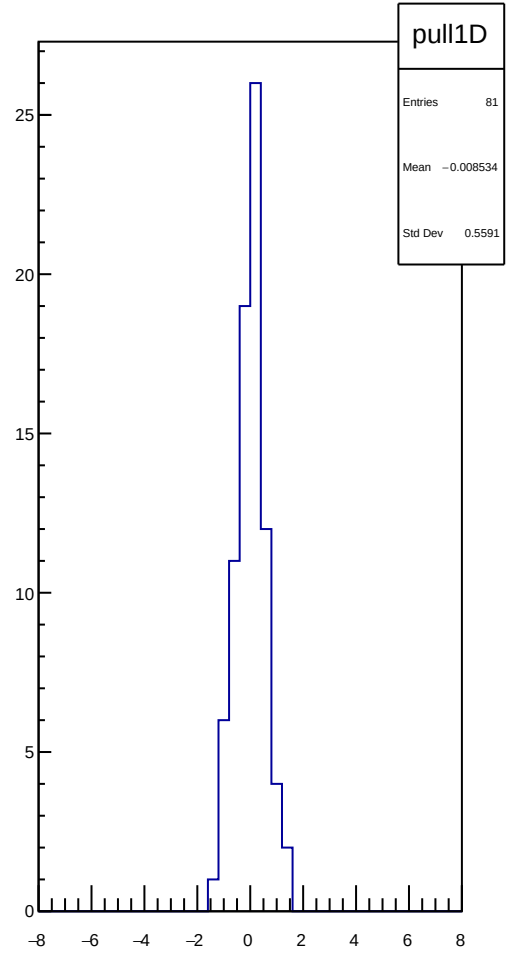

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 26.53 / 80
p0 −34.27 ± 0.8621
pull
Entries 81
Mean −323.5
Std Dev 354.9

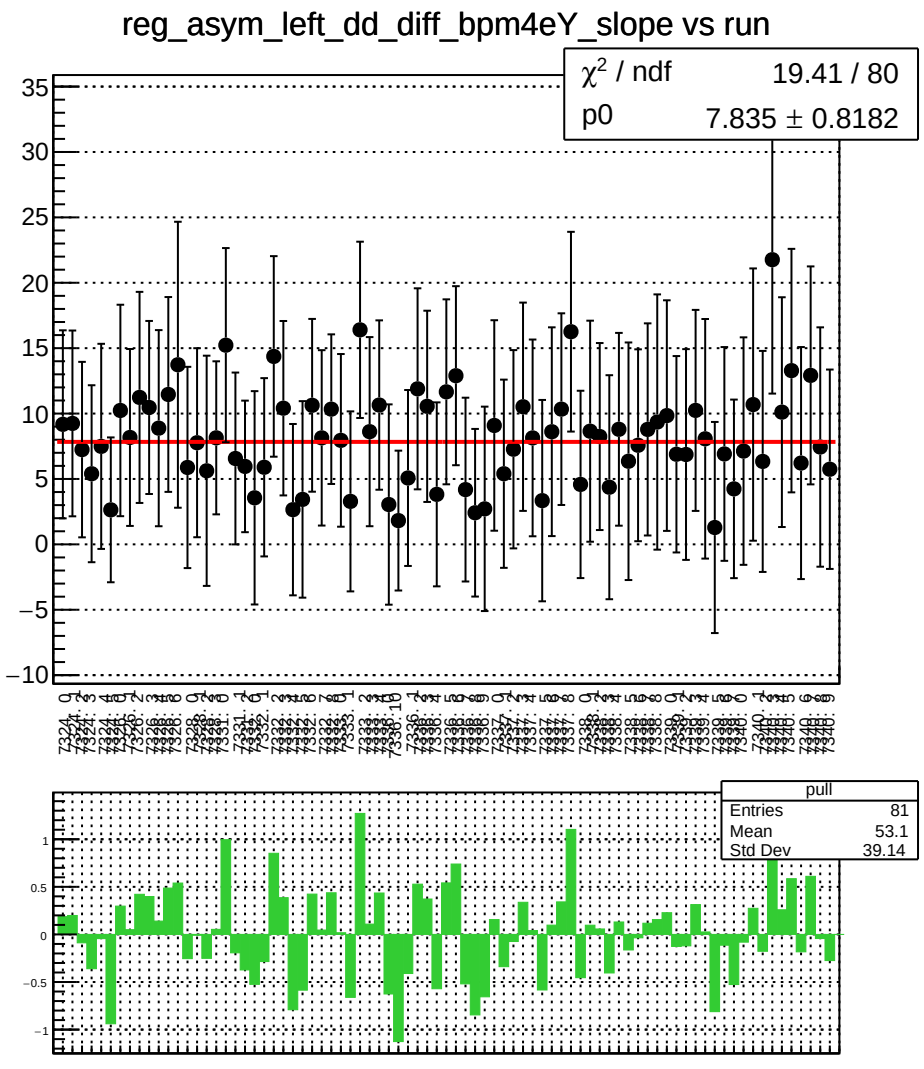

pull1D
Entries 81
Mean 0.006946
Std Dev 0.5723

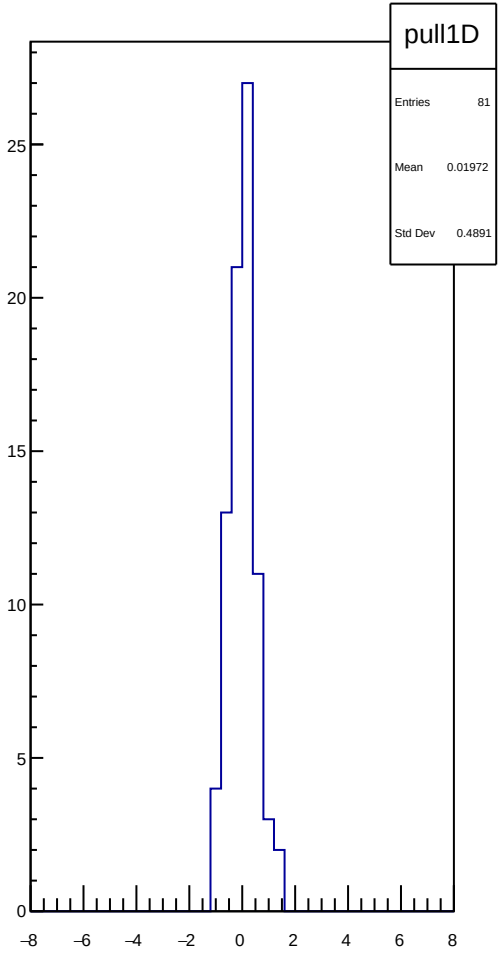

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 19.31 / 80
p0 2.314 ± 0.7775
pull
Entries 81
Mean −1.753
Std Dev 17.9

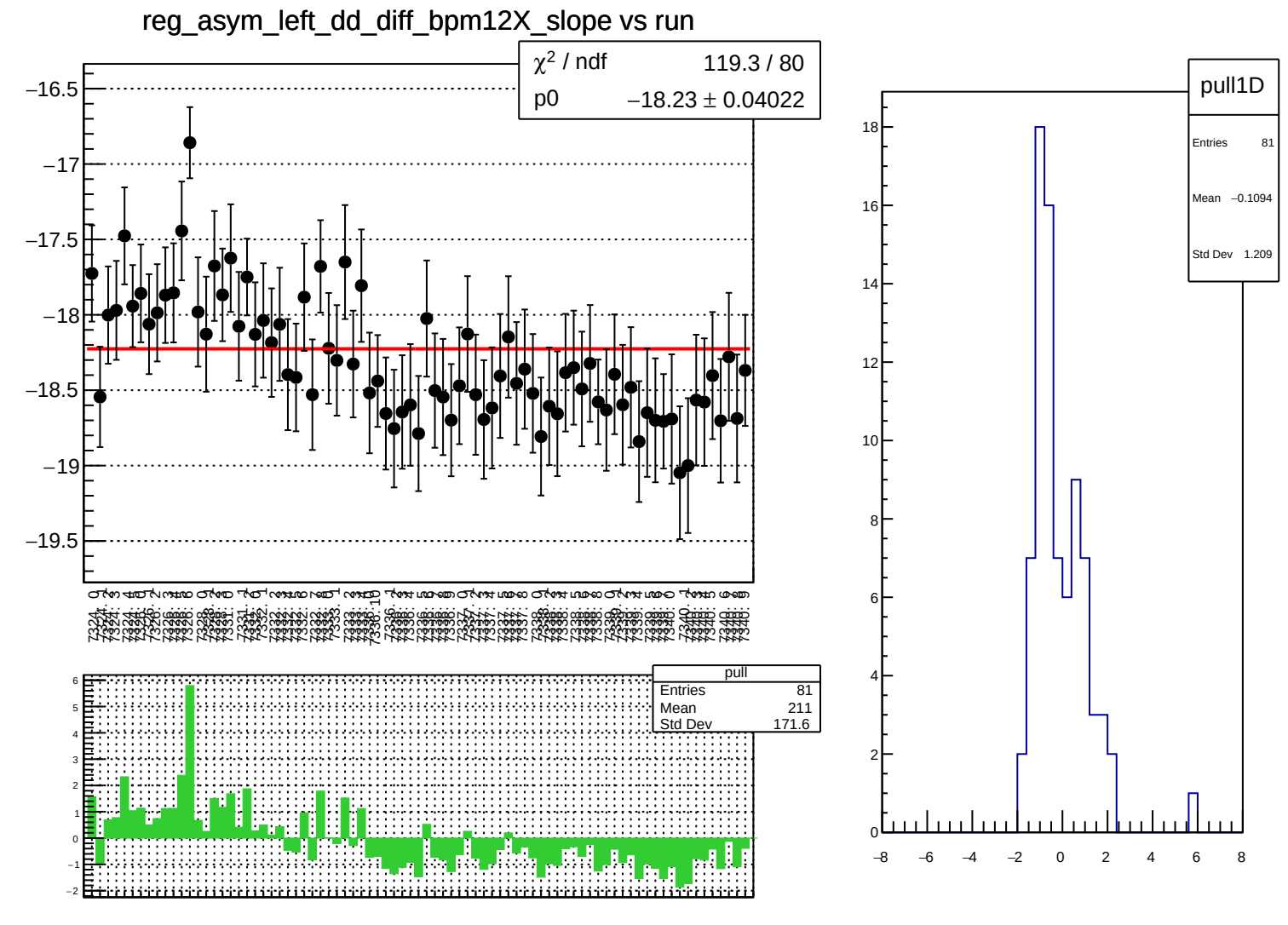

pull1D
Entries 81
Mean −0.02085
Std Dev 0.4879

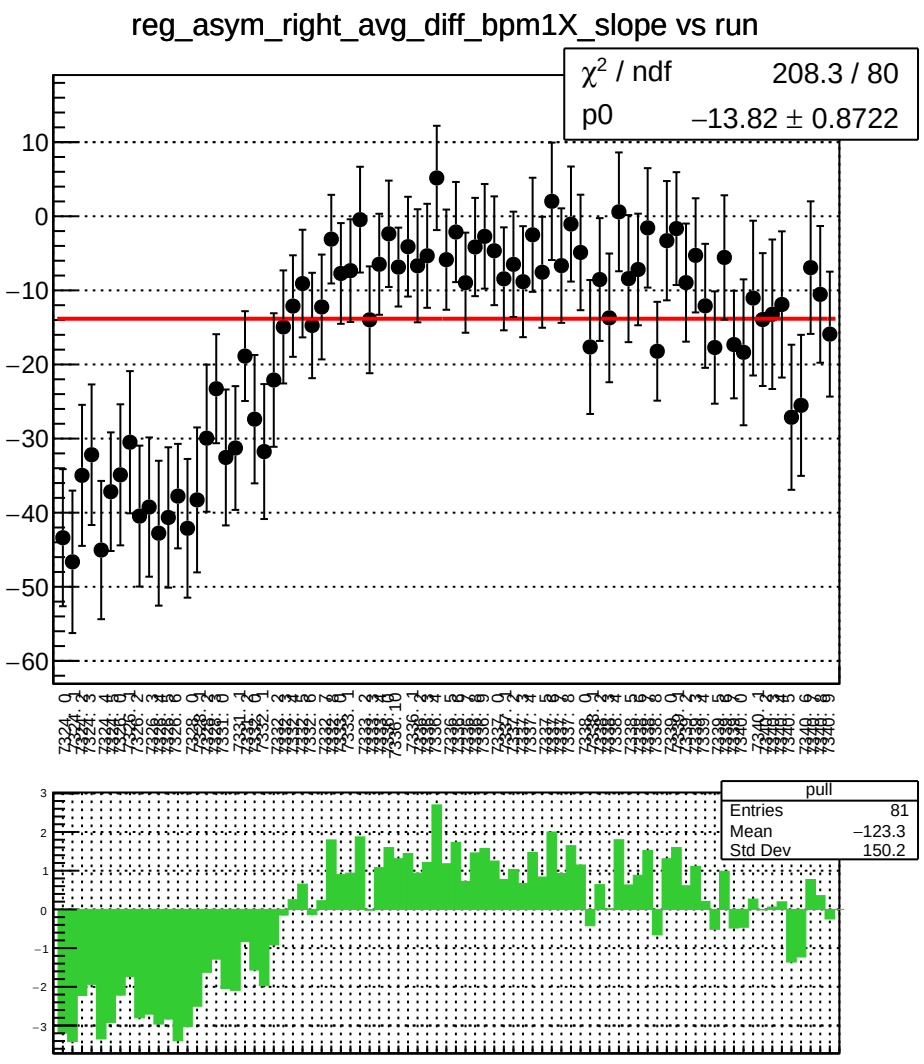

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 25.32 / 80
p0 4.792 ± 0.8555
pull
Entries 81
Mean −164.6
Std Dev 189.7

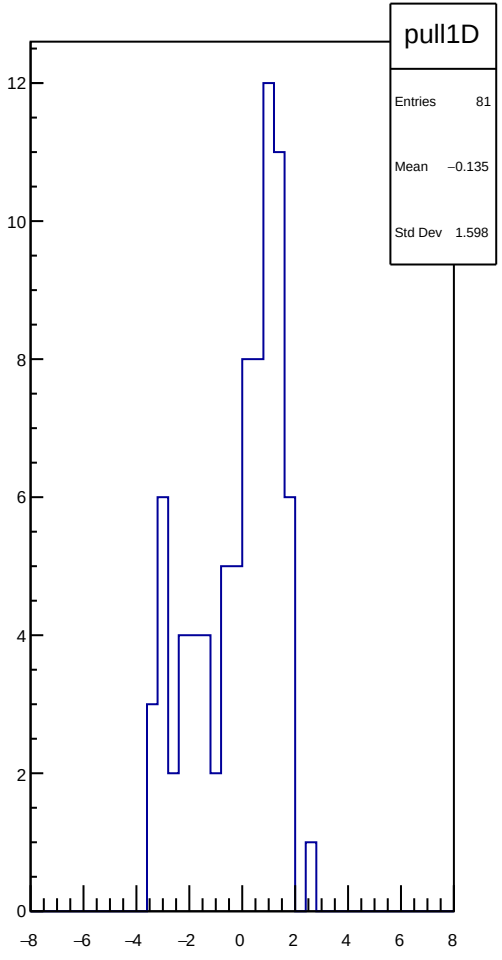

pull1D
Entries 81
Mean −0.008534
Std Dev 0.5591

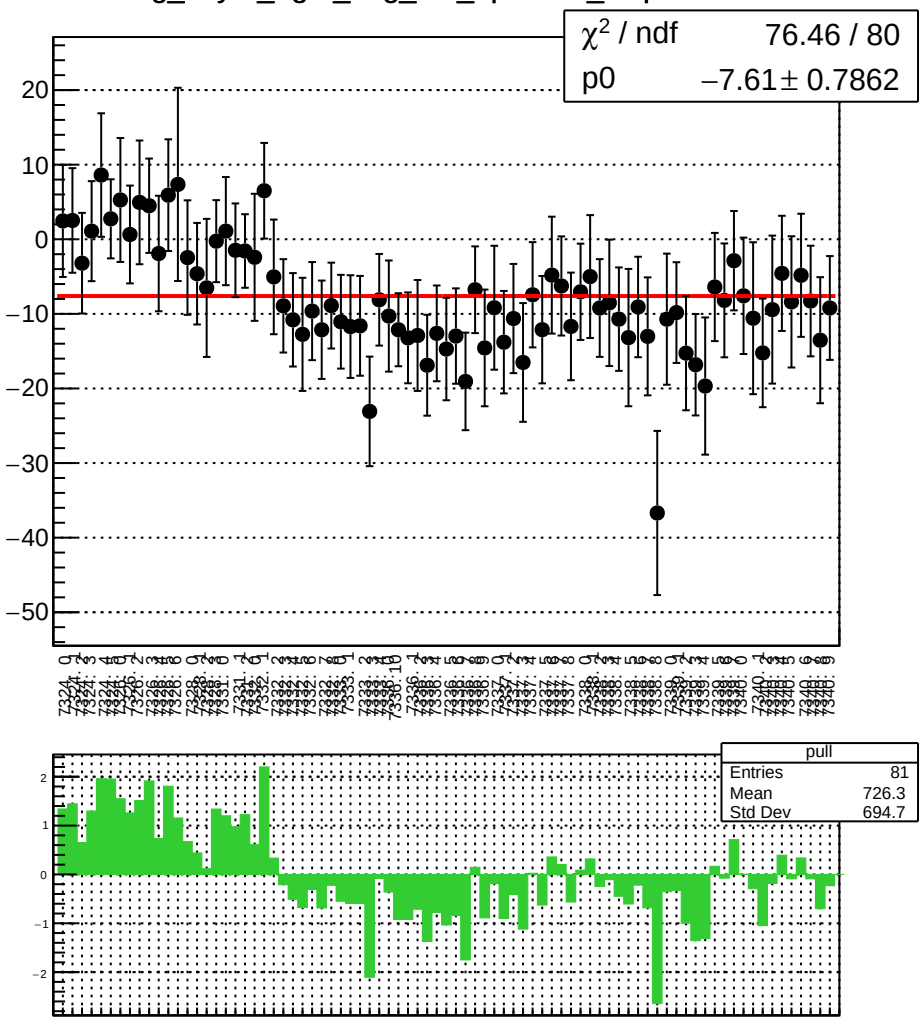

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 19.41 / 80
p0 7.835 ± 0.8182
pull
Entries 81
Mean 53.1
Std Dev 39.14

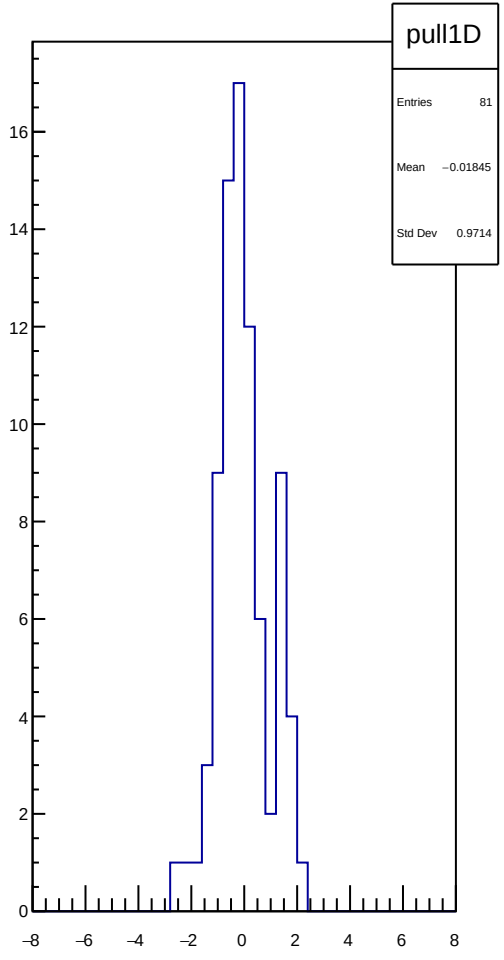

pull1D
Entries 81
Mean 0.01972
Std Dev 0.4891

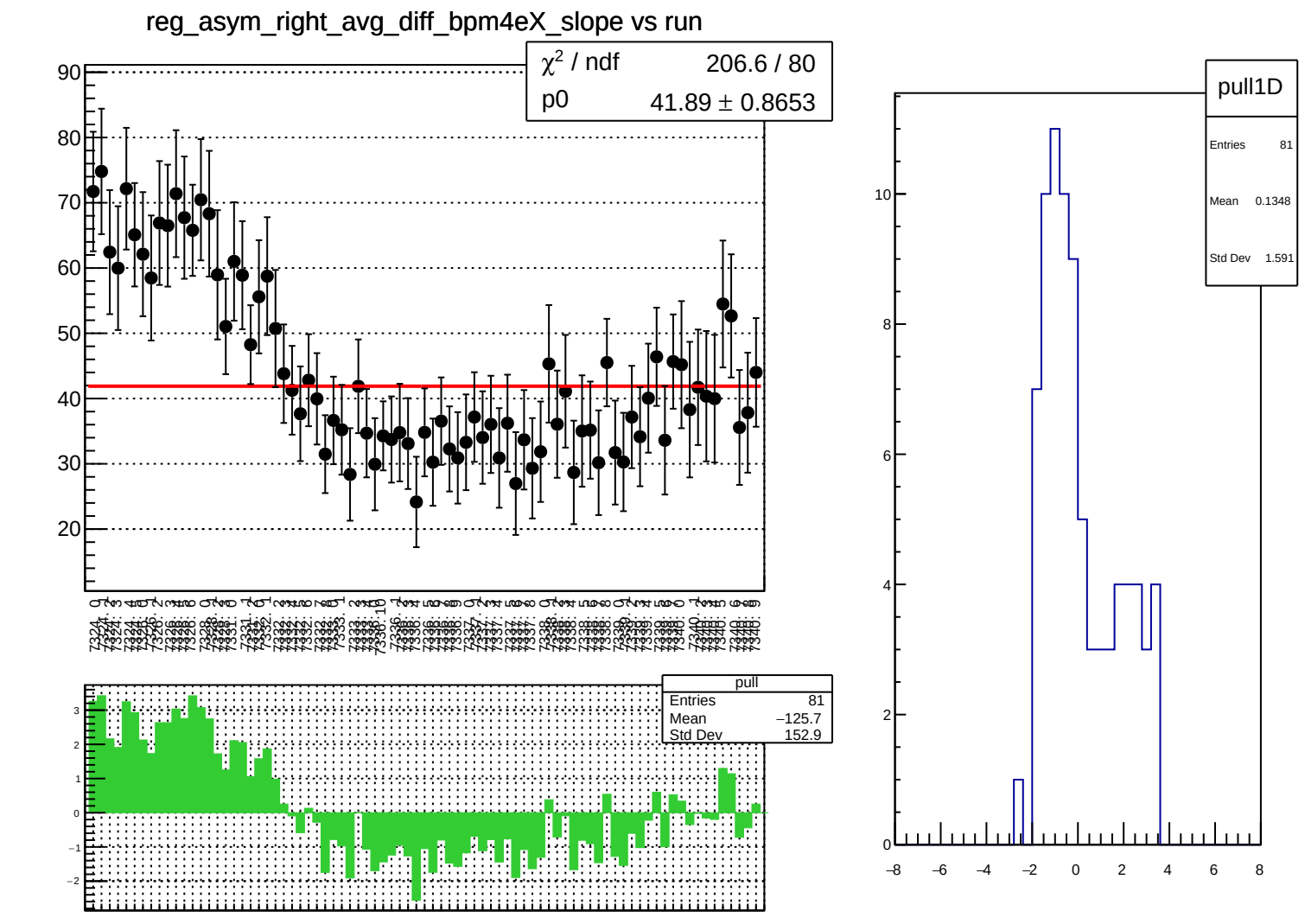

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 119.3 / 80
p0 −18.23 ± 0.04022
pull
Entries 81
Mean 211
Std Dev 171.6
pull1D
Entries 81
Mean −0.1094
Std Dev 1.209

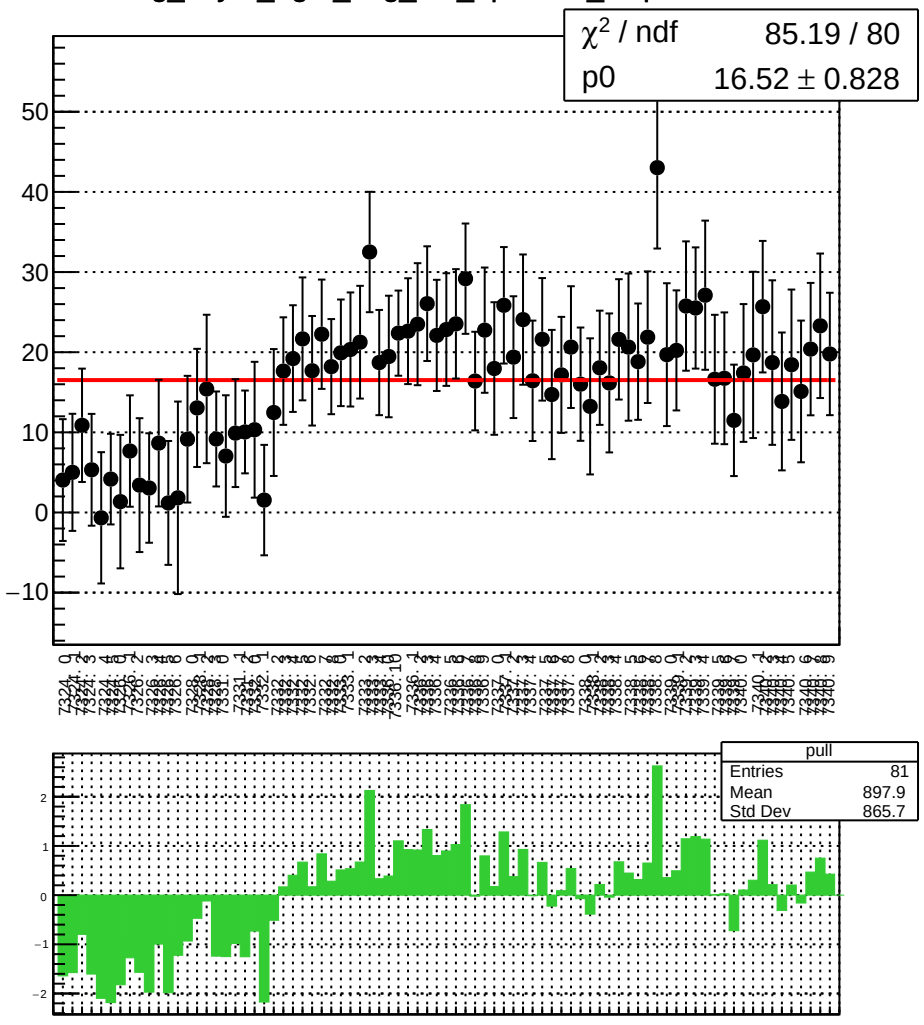

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 208.3 / 80
p0 −13.82 ± 0.8722
pull
Entries 81
Mean −123.3
Std Dev 150.2

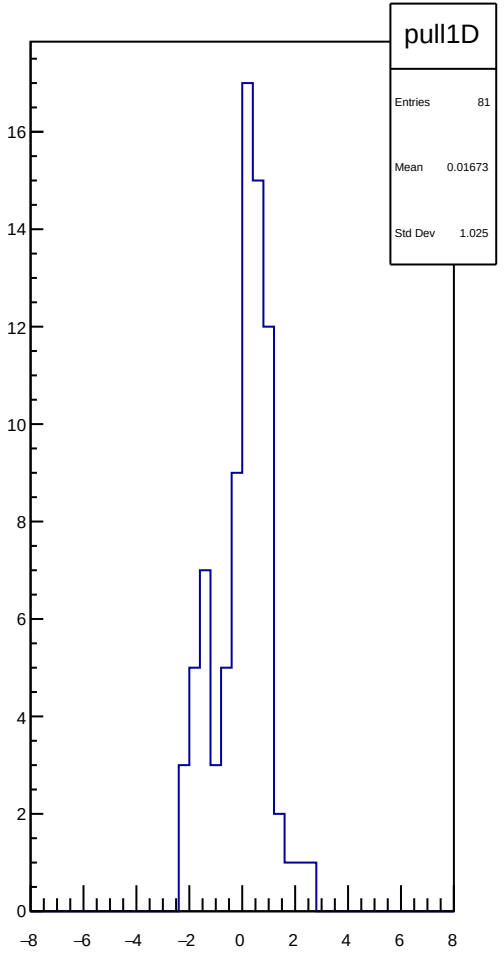

pull1D
Entries 81
Mean −0.135
Std Dev 1.598

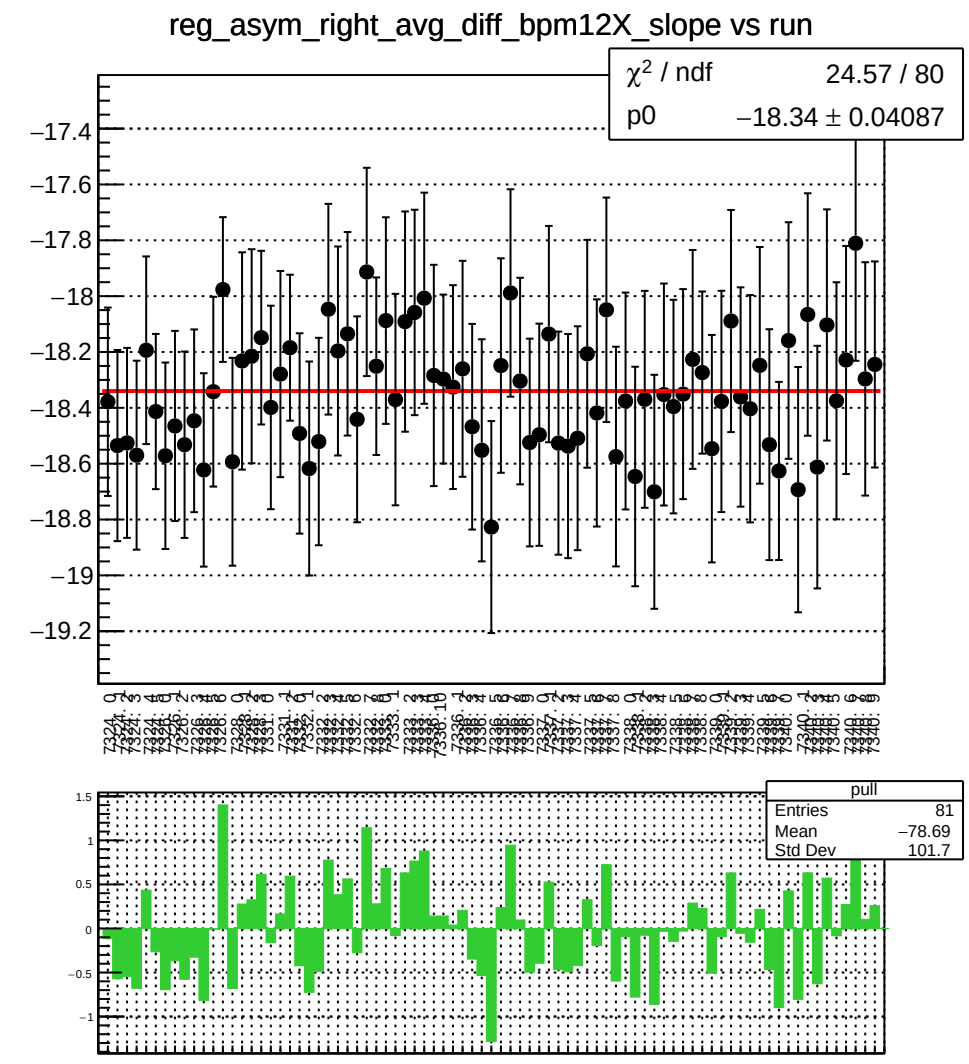

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 76.46 / 80
p0 −7.61 ± 0.7862
pull
Entries 81
Mean 726.3
Std Dev 694.7

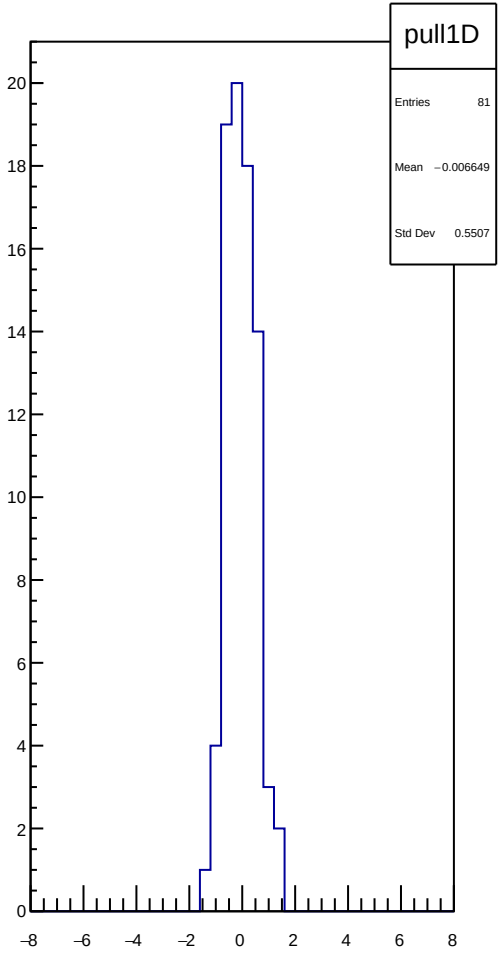

pull1D
Entries 81
Mean −0.01845
Std Dev 0.9714

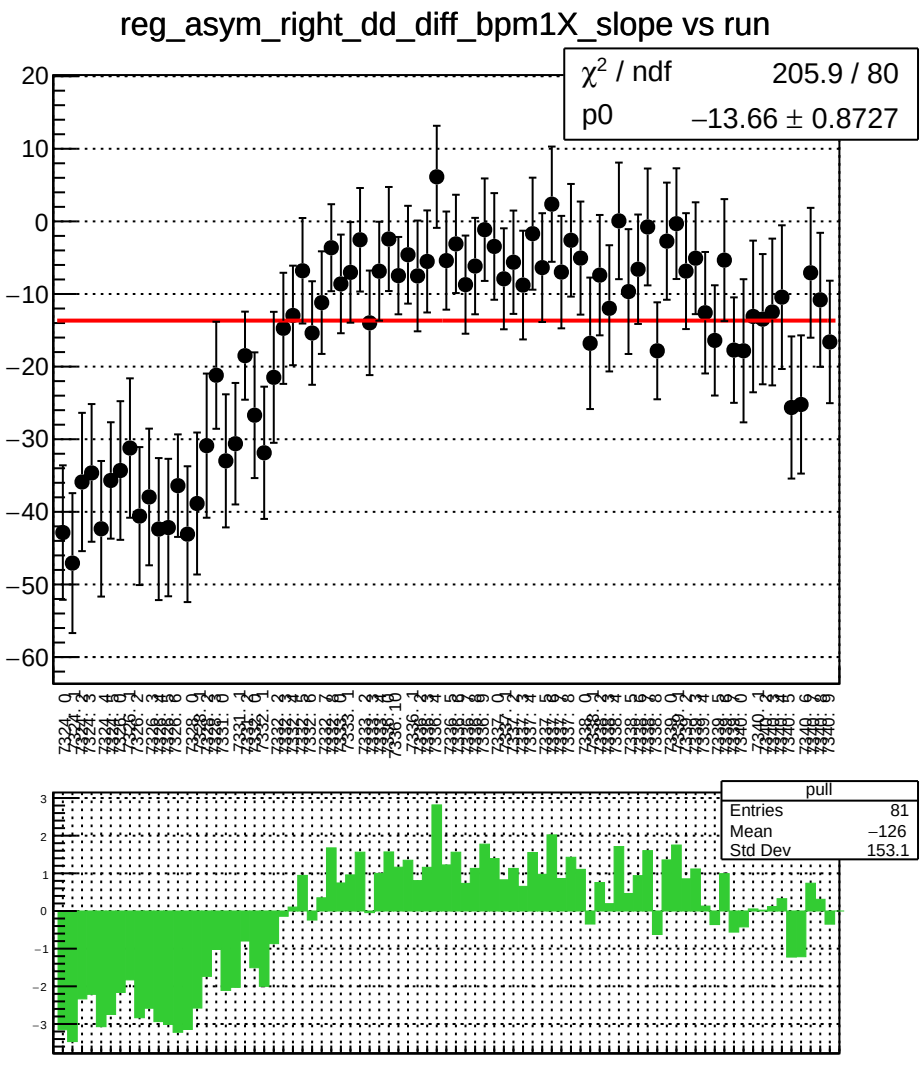

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 206.6 / 80
p0 41.89 ± 0.8653
pull
Entries 81
Mean −125.7
Std Dev 152.9
pull1D
Entries 81
Mean 0.1348
Std Dev 1.591

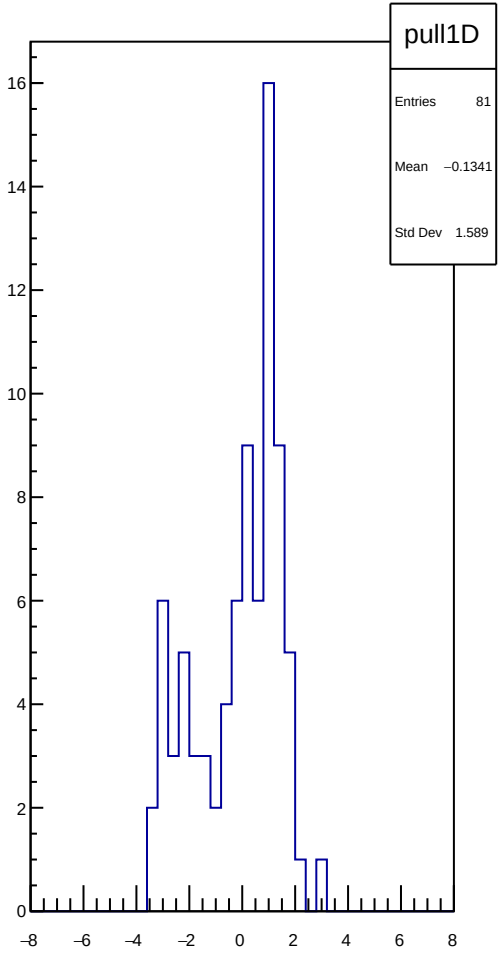

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 85.19 / 80
p0 16.52 ± 0.828
pull
Entries 81
Mean 897.9
Std Dev 865.7

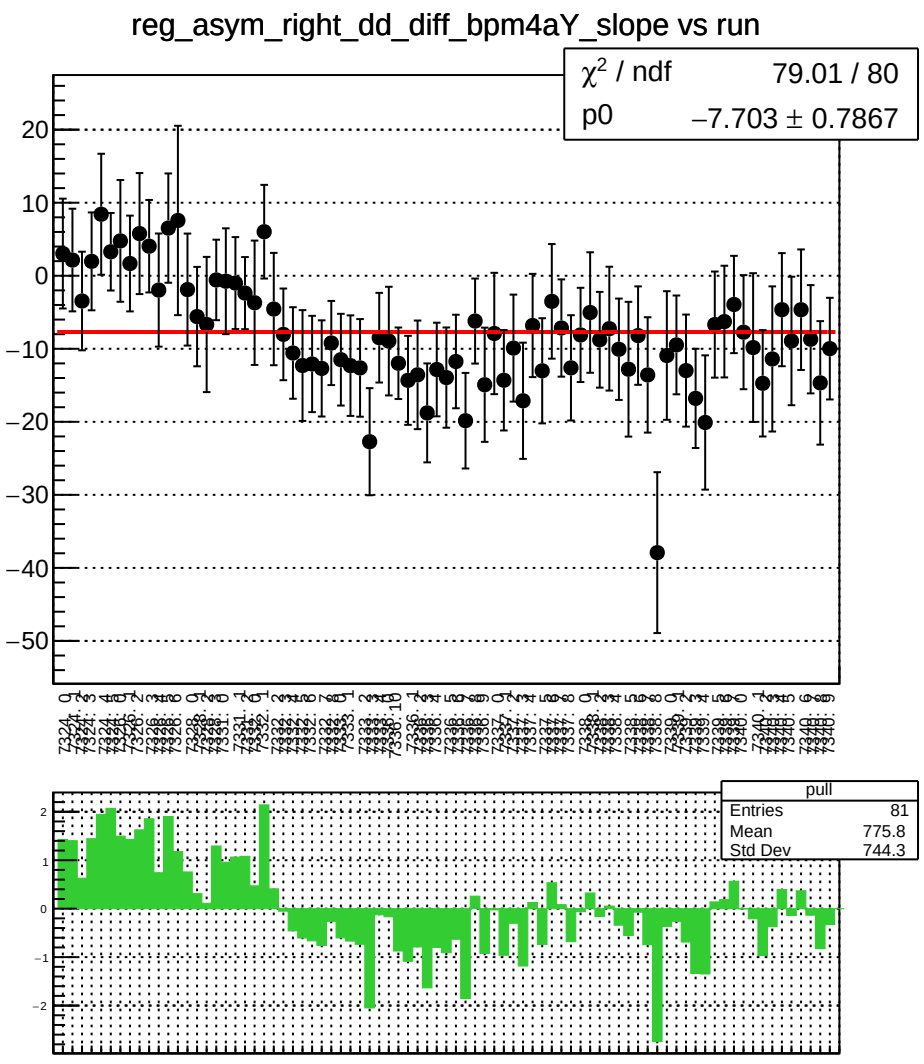

pull1D
Entries 81
Mean 0.01673
Std Dev 1.025

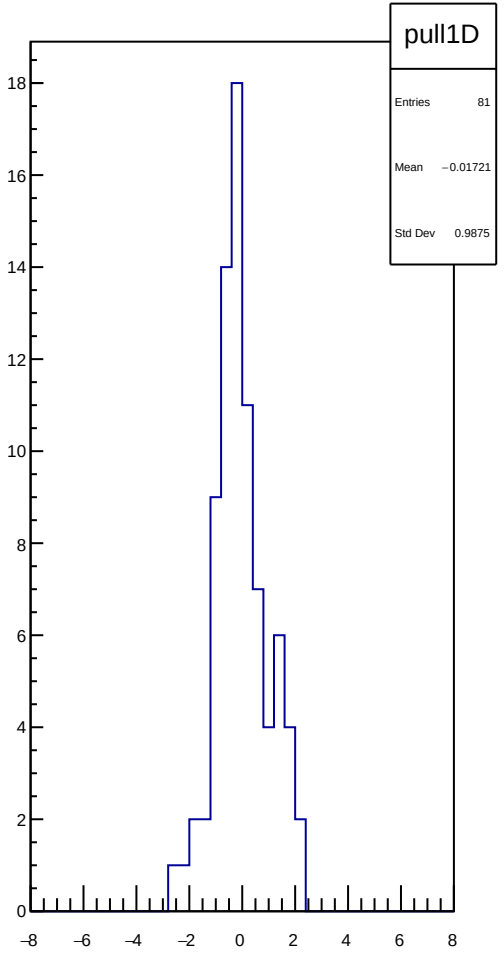

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 24.57 / 80
p0 −18.34 ± 0.04087
pull
Entries 81
Mean −78.69
Std Dev 101.7

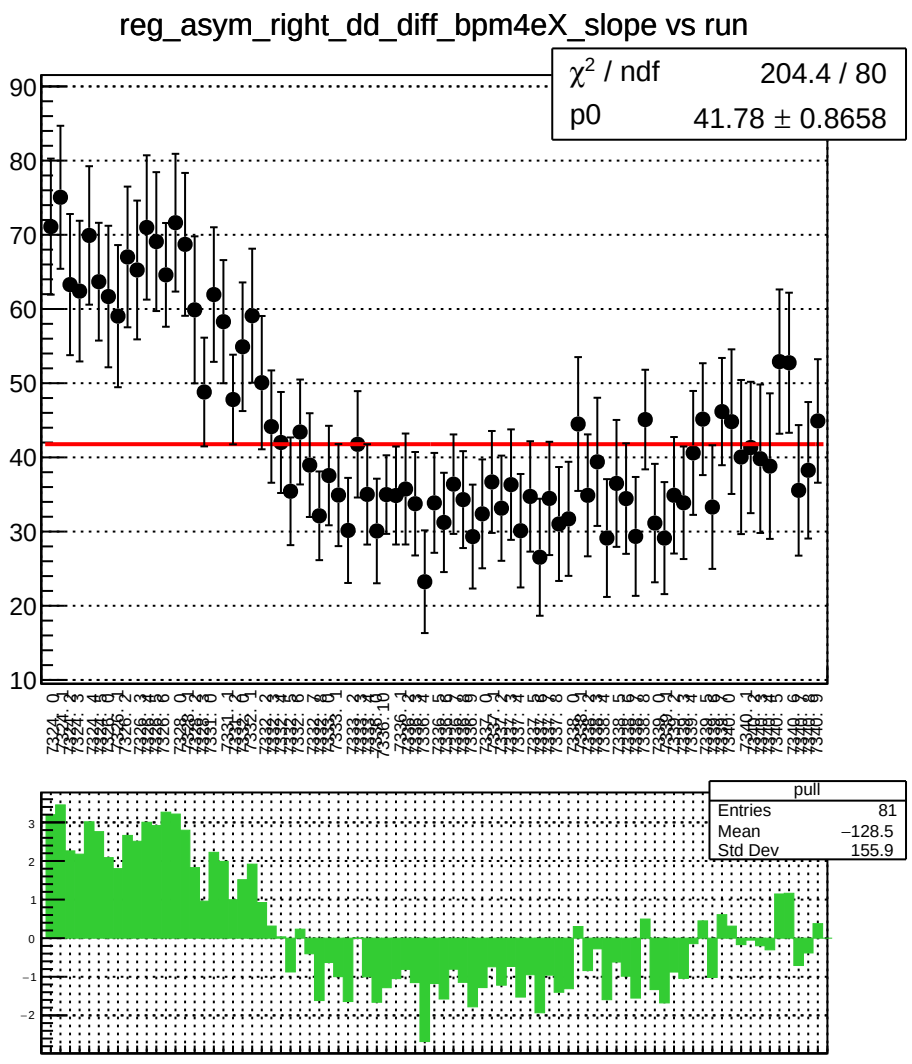

pull1D
Entries 81
Mean −0.006649
Std Dev 0.5507

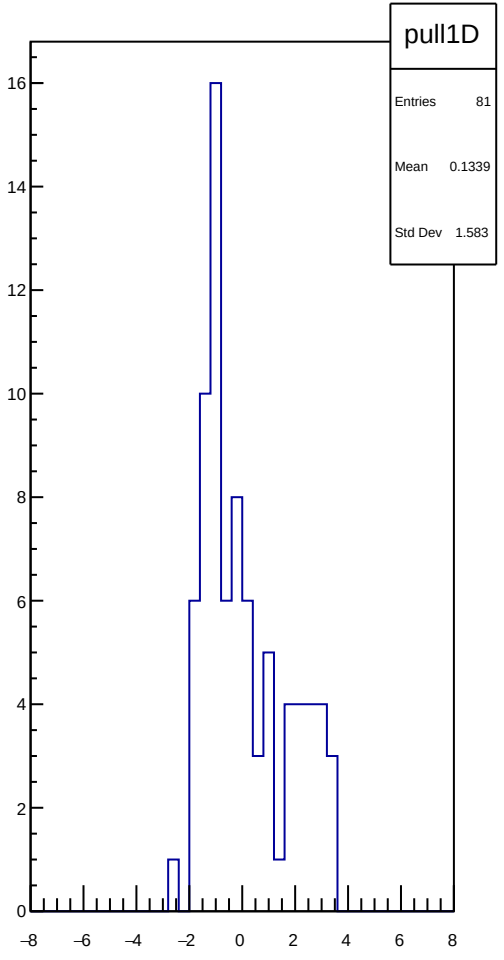

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 205.9 / 80
p0 −13.66 ± 0.8727
pull
Entries 81
Mean −126
Std Dev 153.1

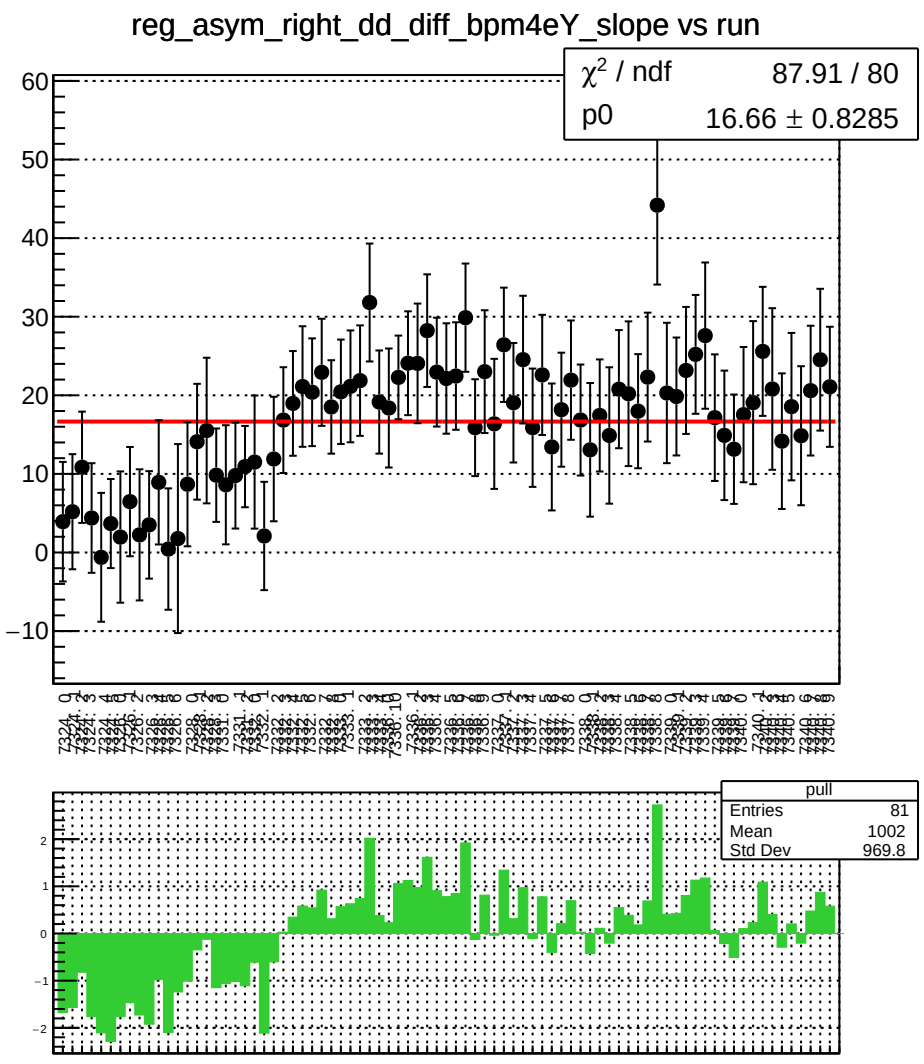

pull1D
Entries 81
Mean −0.1341
Std Dev 1.589

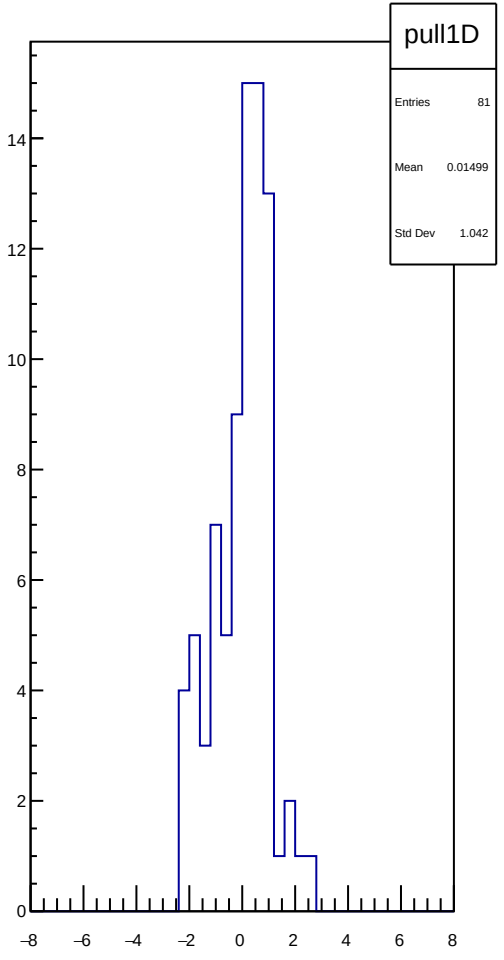

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 79.01 / 80
p0 −7.703 ± 0.7867
pull
Entries 81
Mean 775.8
Std Dev 744.3

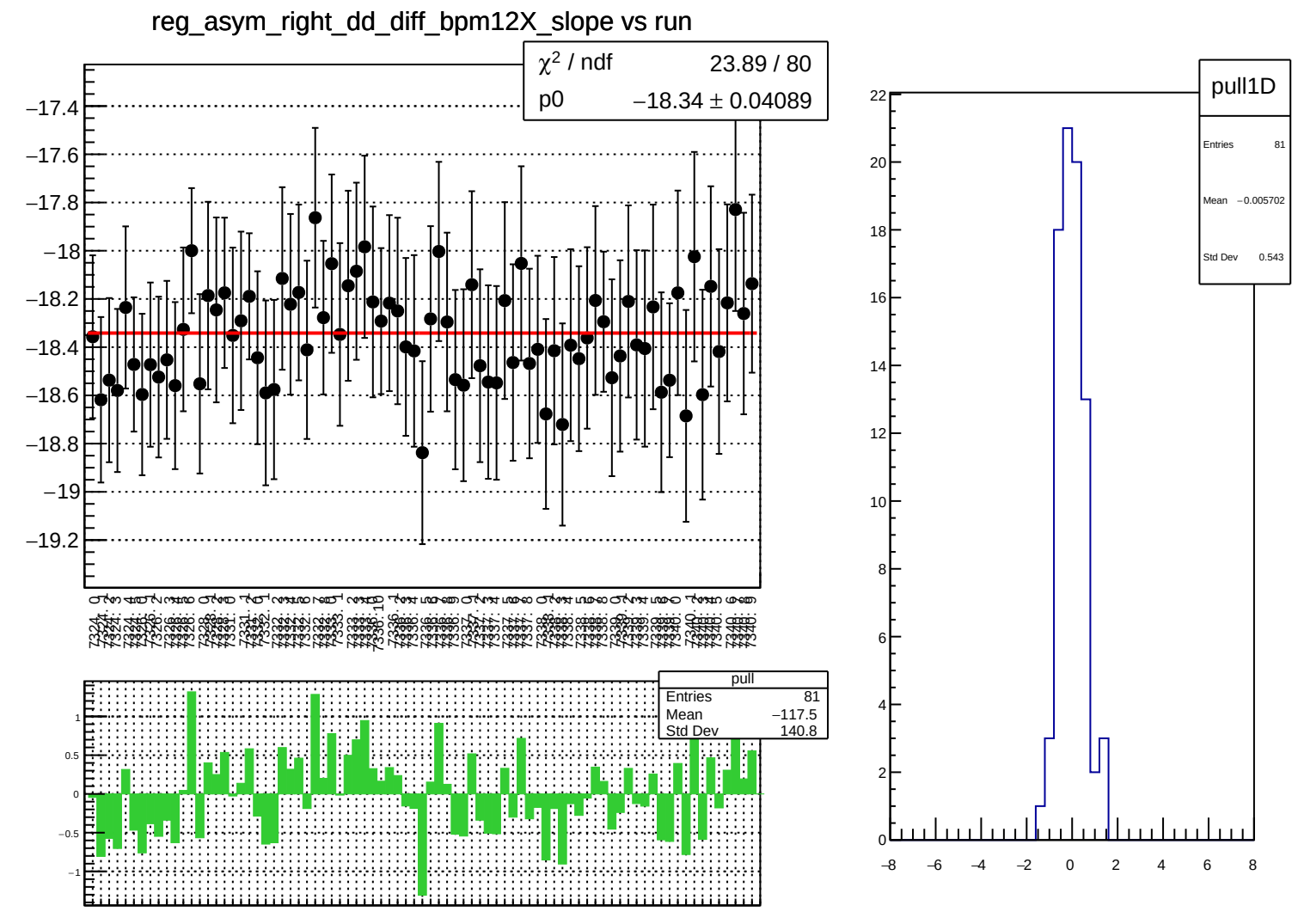

pull1D
Entries 81
Mean −0.01721
Std Dev 0.9875

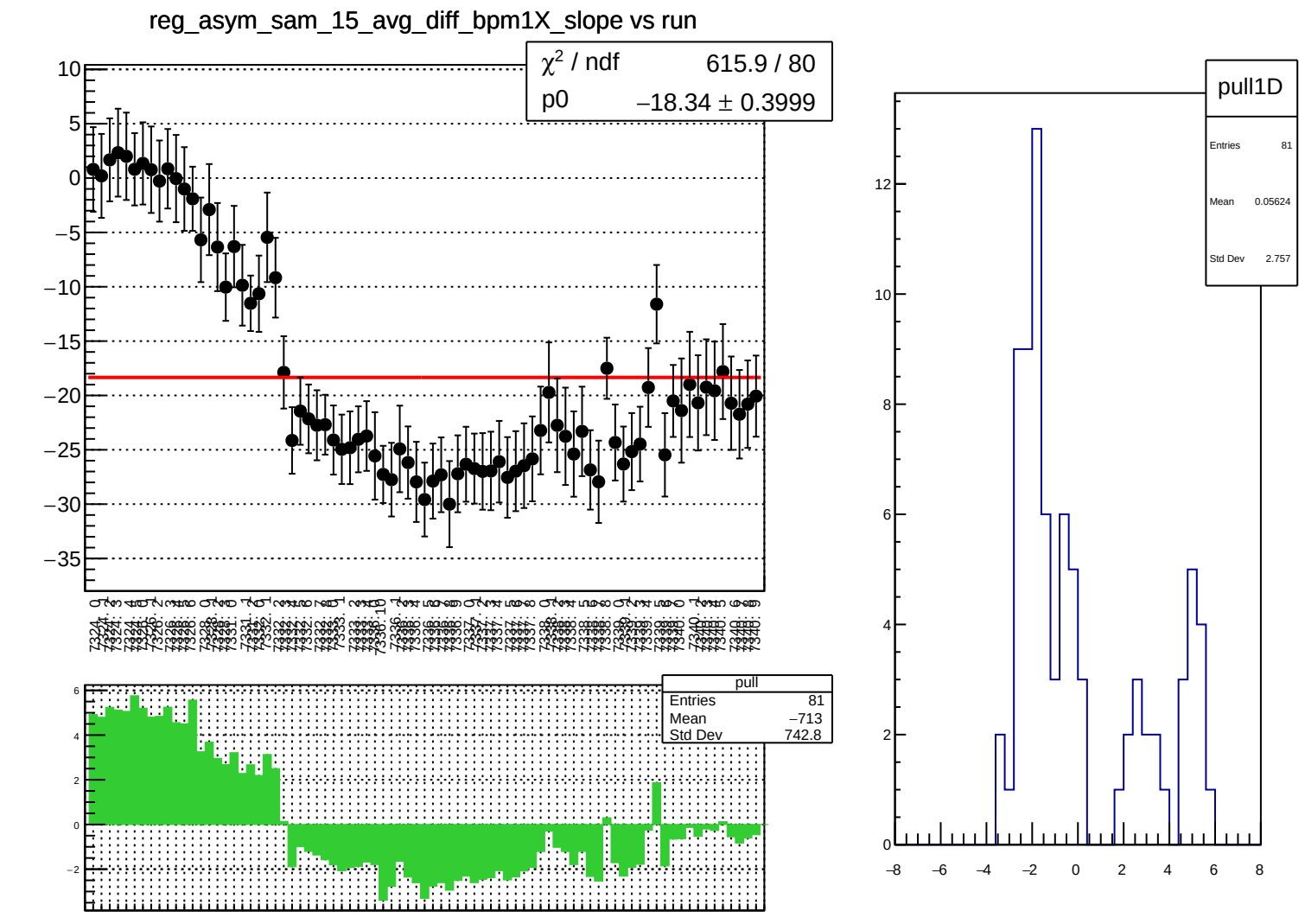

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 204.4 / 80
p0 41.78 ± 0.8658
pull
Entries 81
Mean −128.5
Std Dev 155.9

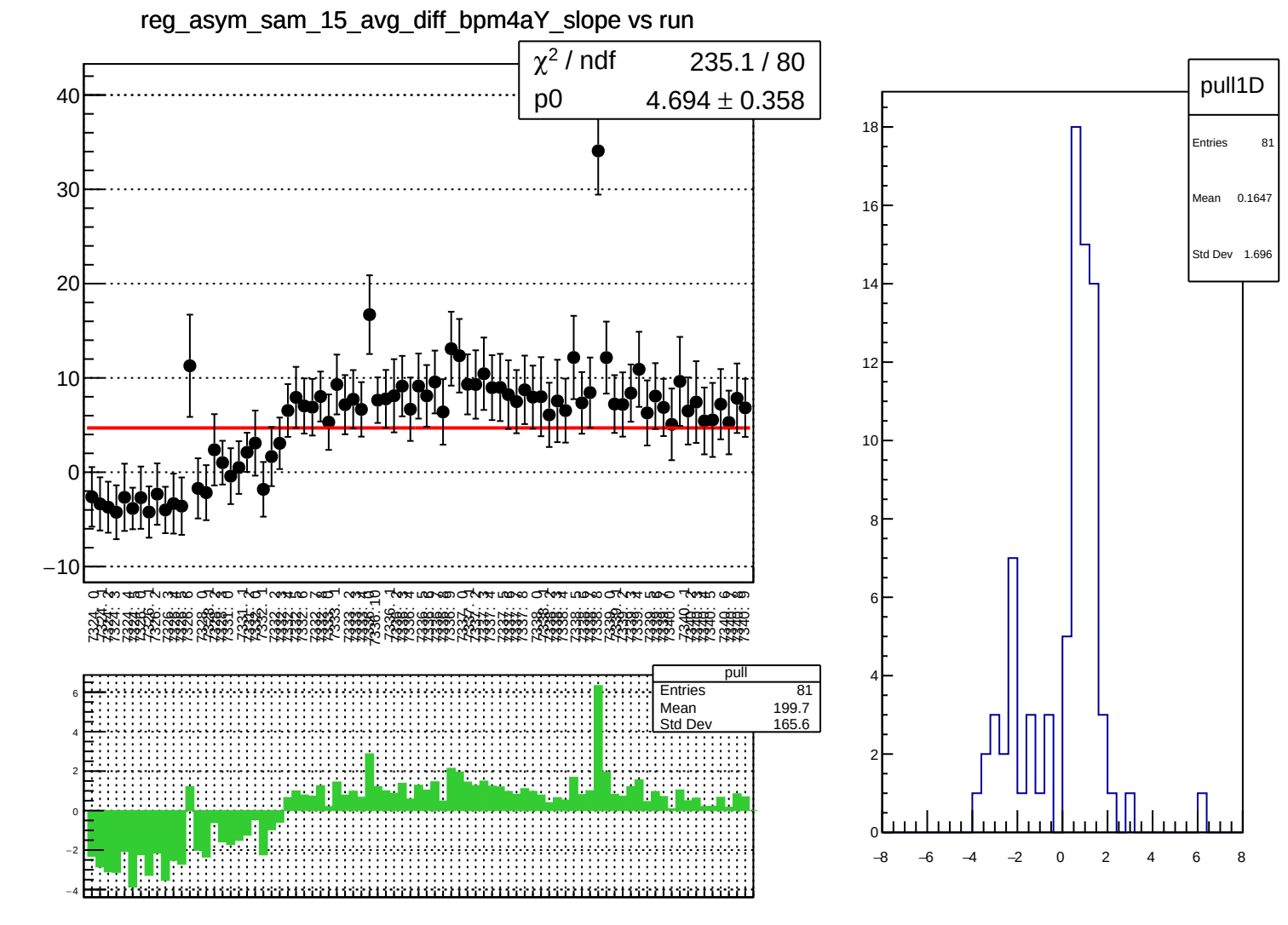

pull1D
Entries 81
Mean 0.1339
Std Dev 1.583

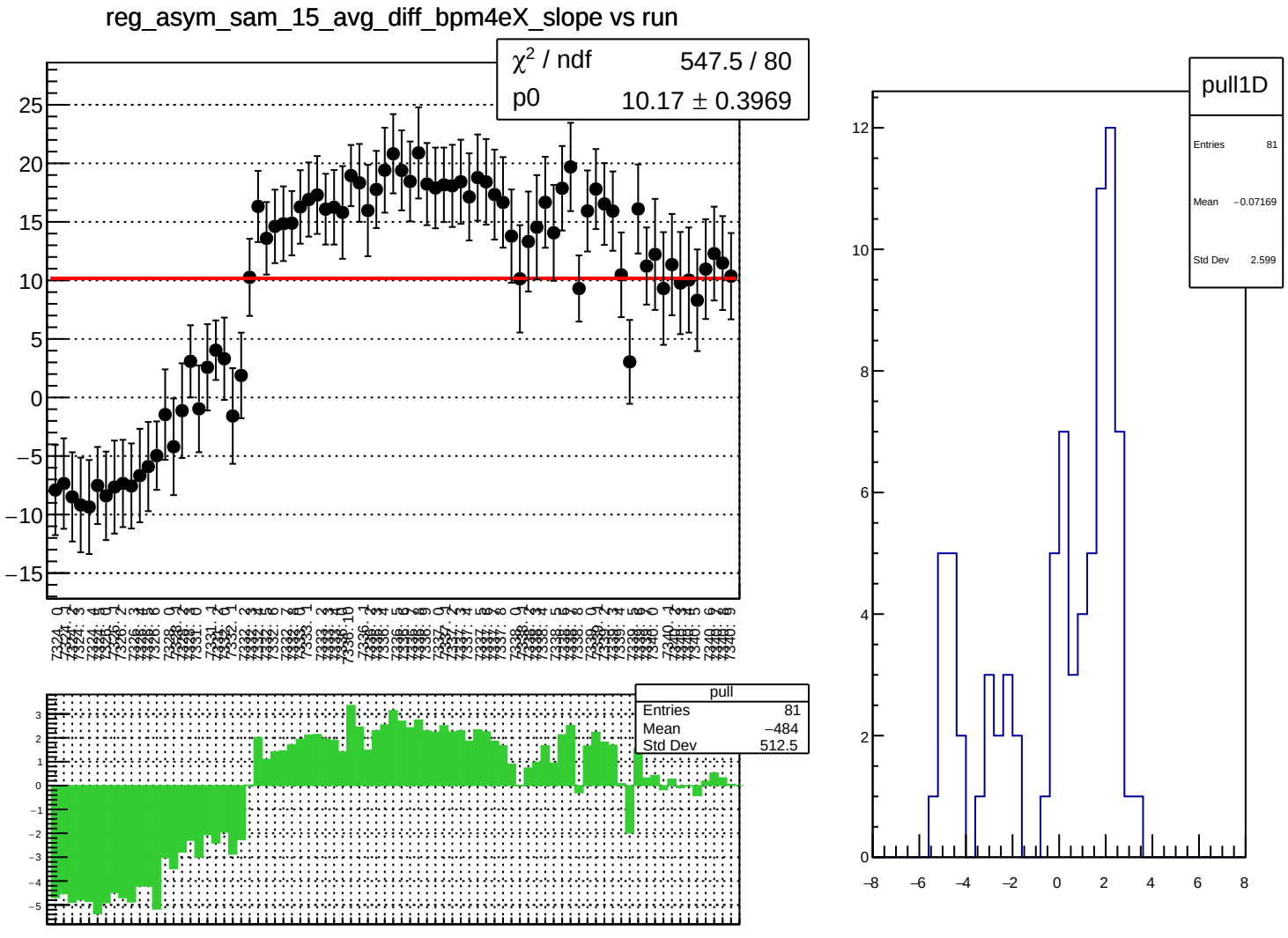

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 87.91 / 80
p0 16.66 ± 0.8285
pull
Entries 81
Mean 1002
Std Dev 969.8

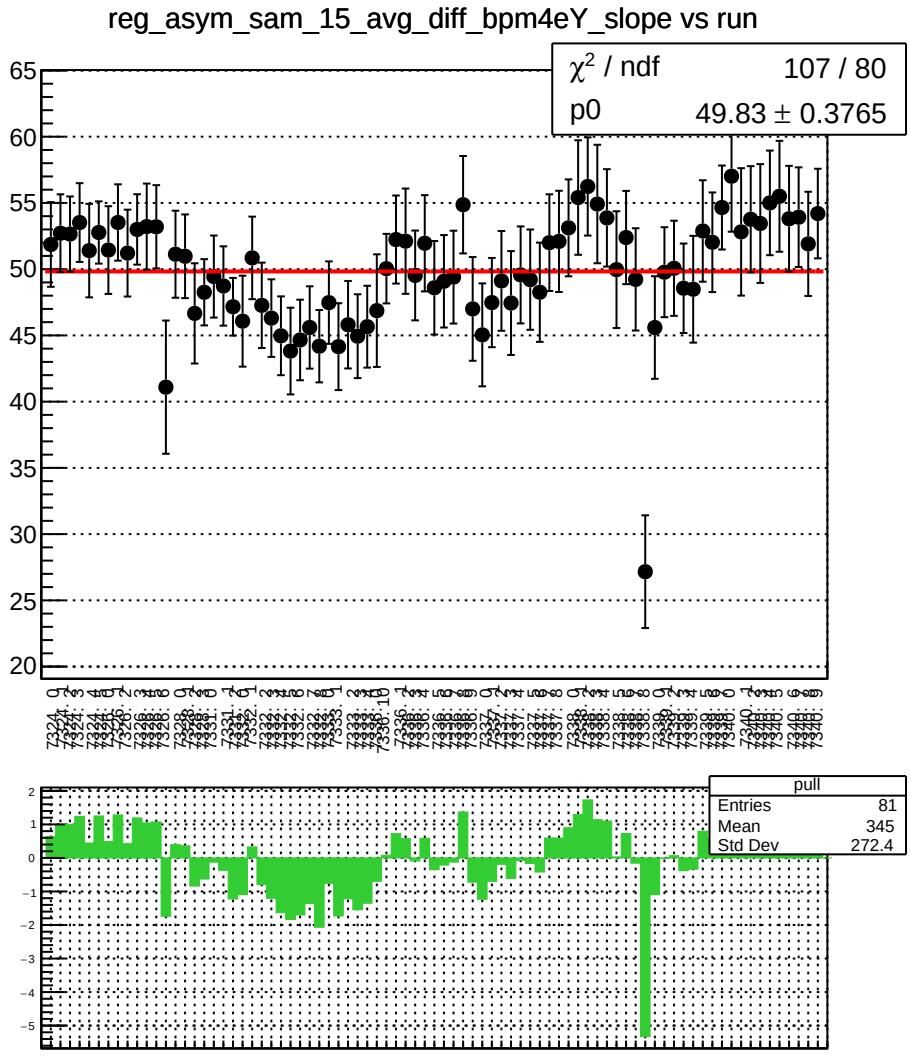

pull1D
Entries 81
Mean 0.01499
Std Dev 1.042

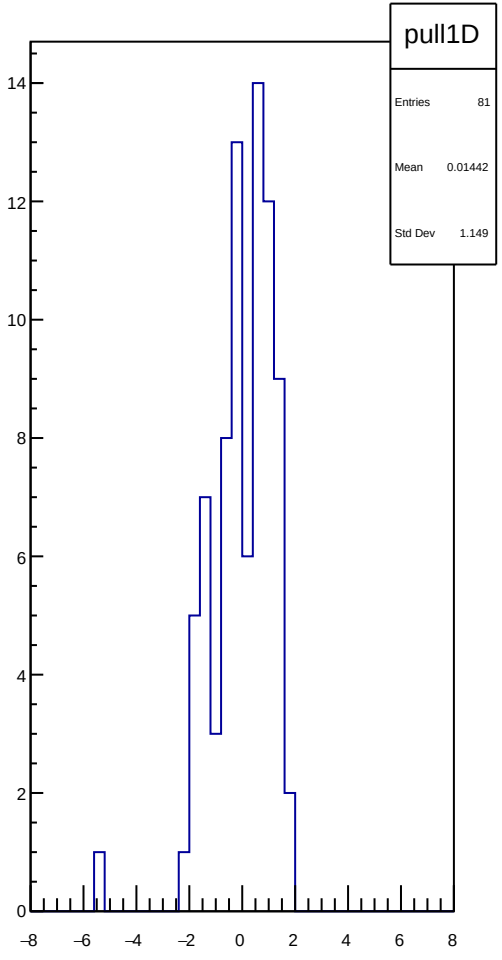

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 23.89 / 80
p0 −18.34 ± 0.04089
pull
Entries 81
Mean −117.5
Std Dev 140.8
pull1D
Entries 81
Mean −0.005702
Std Dev 0.543

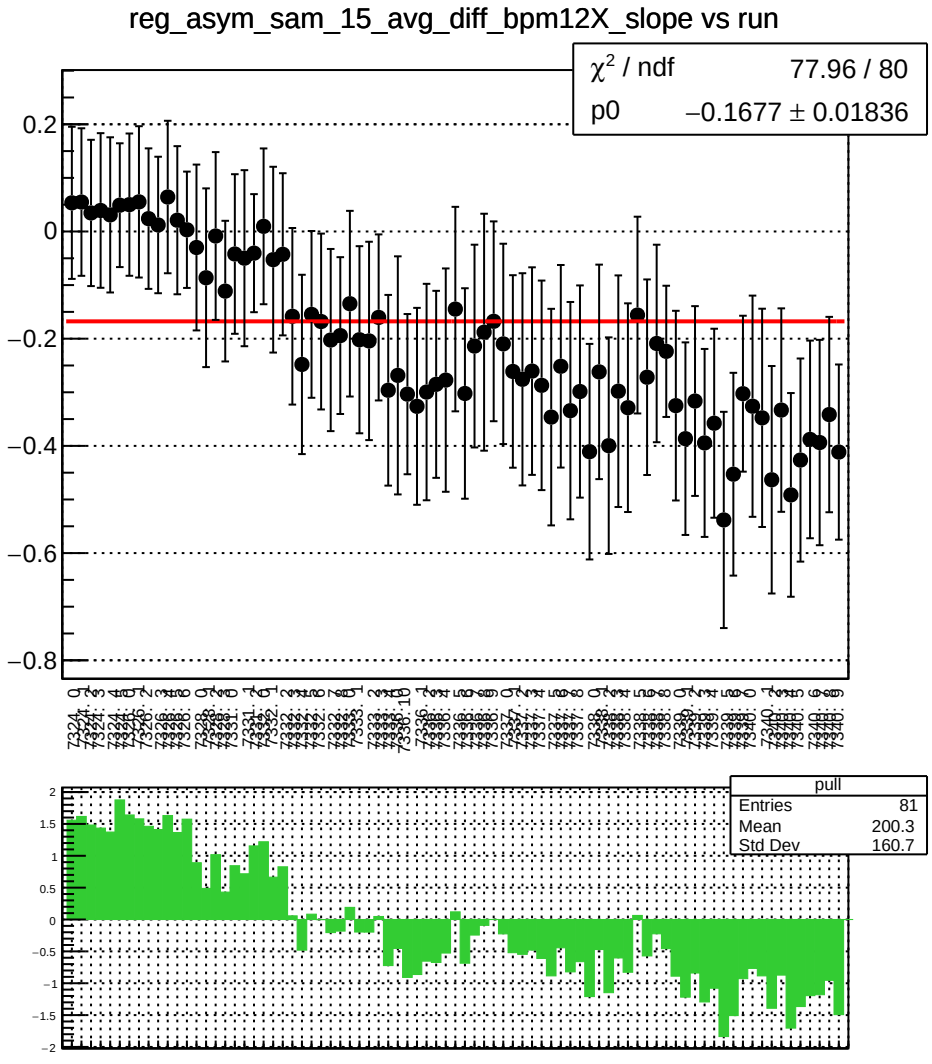

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 615.9 / 80
p0 −18.34 ± 0.3999
pull
Entries 81
Mean −713
Std Dev 742.8
pull1D
Entries 81
Mean 0.05624
Std Dev 2.757

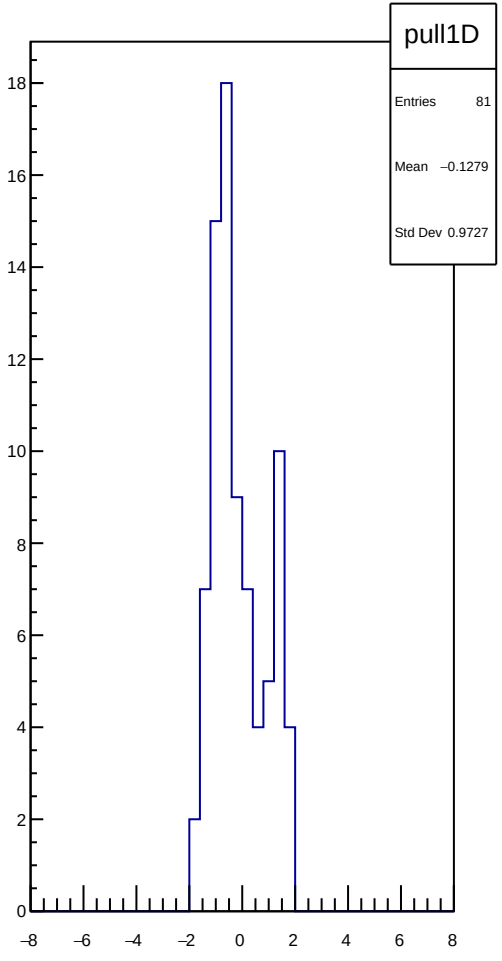

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 235.1 / 80
p0 4.694 ± 0.358
pull
Entries 81
Mean 199.7
Std Dev 165.6
pull1D
Entries 81
Mean 0.1647
Std Dev 1.696

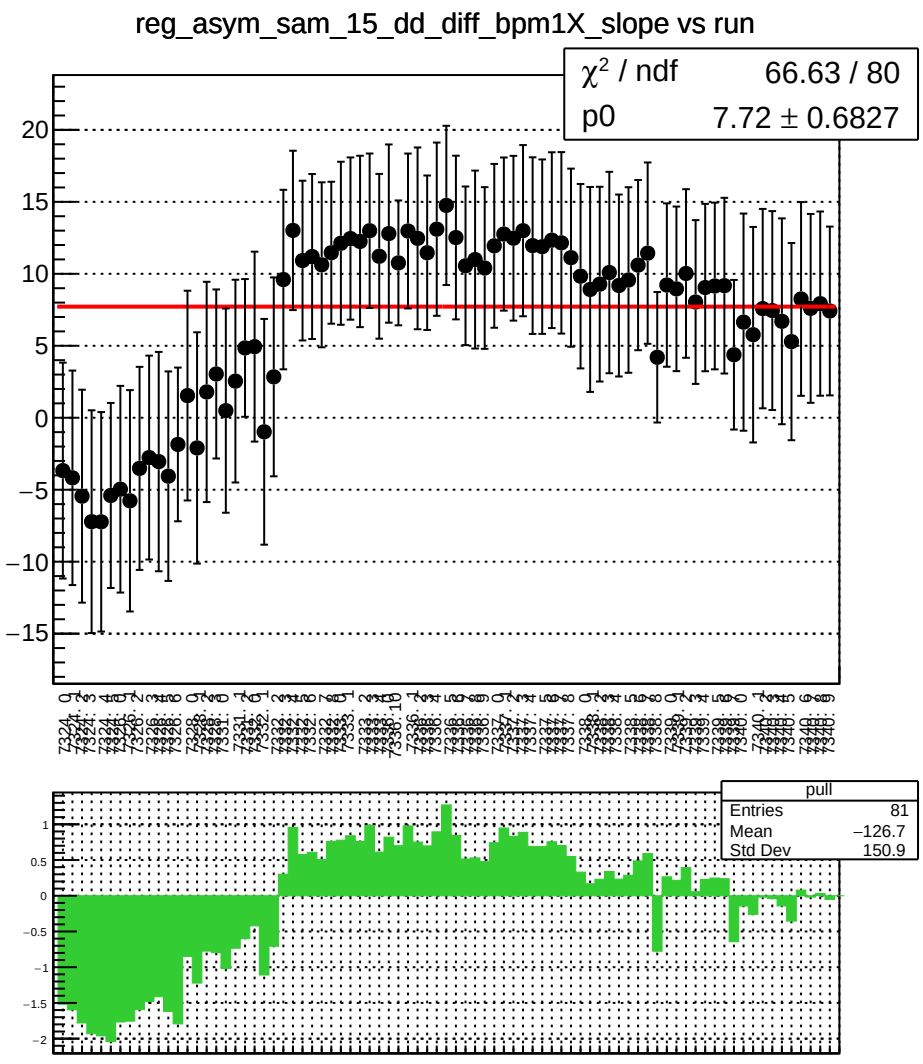

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 547.5 / 80
p0 10.17 ± 0.3969
pull
Entries 81
Mean −484
Std Dev 512.5
pull1D
Entries 81
Mean −0.07169
Std Dev 2.599

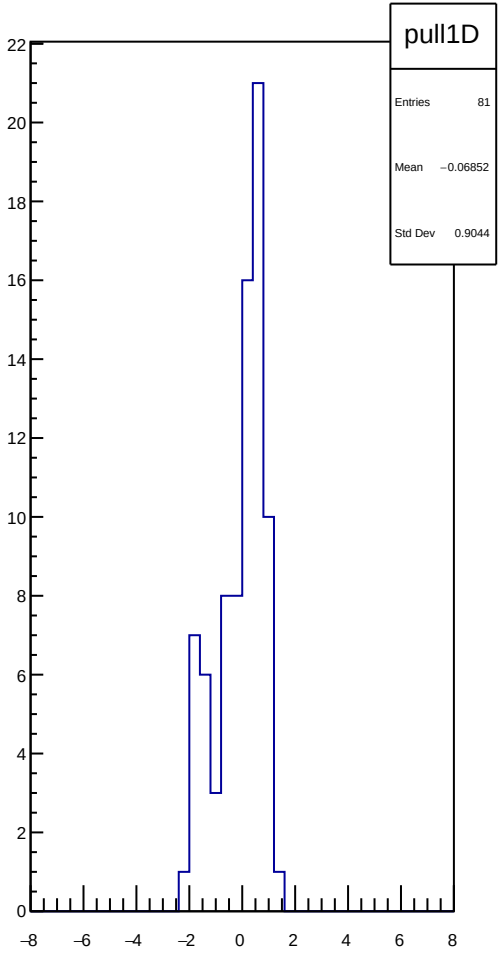

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 107 / 80
p0 49.83 ± 0.3765
pull
Entries 81
Mean 345
Std Dev 272.4

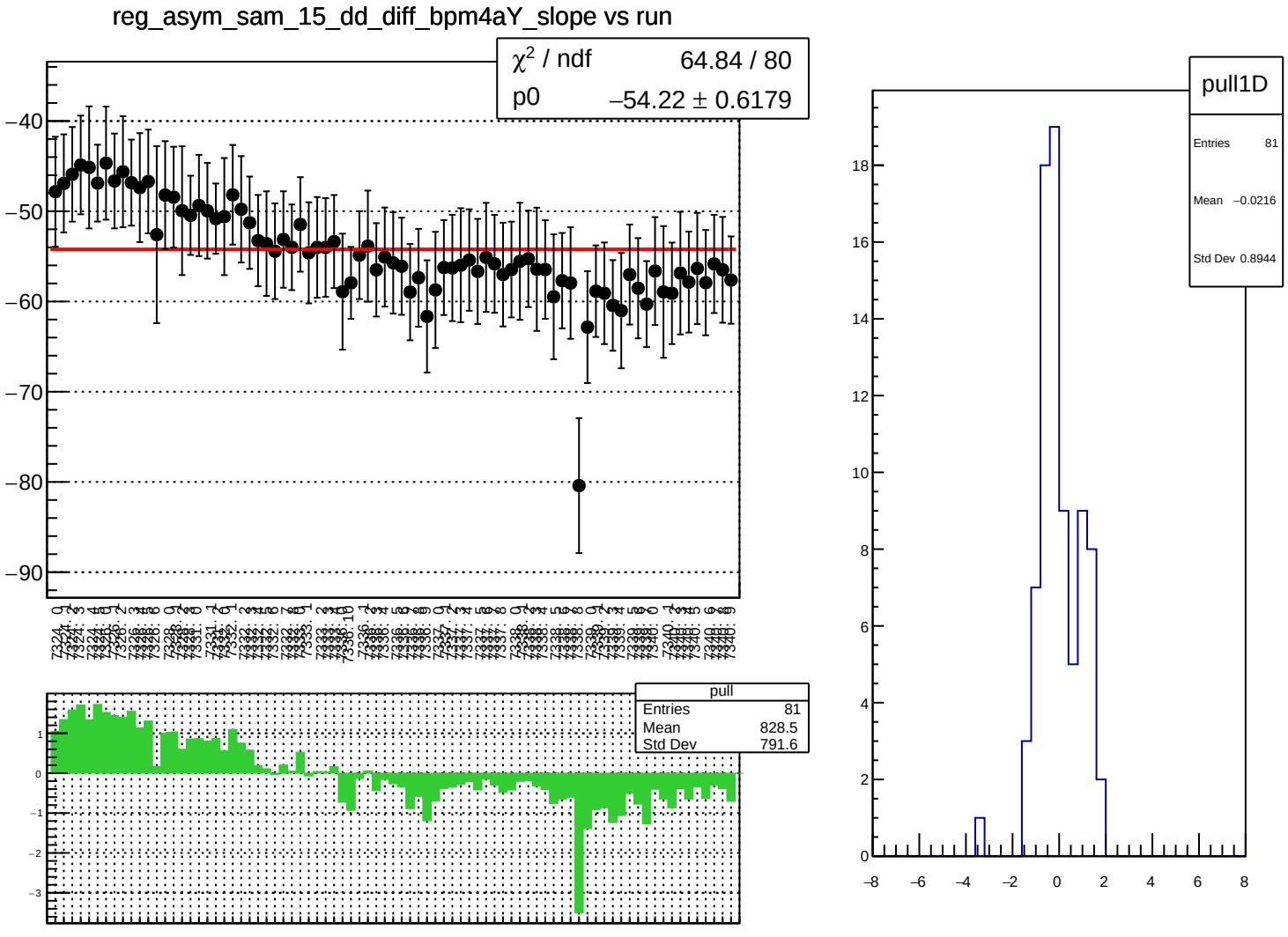

pull1D
Entries 81
Mean 0.01442
Std Dev 1.149

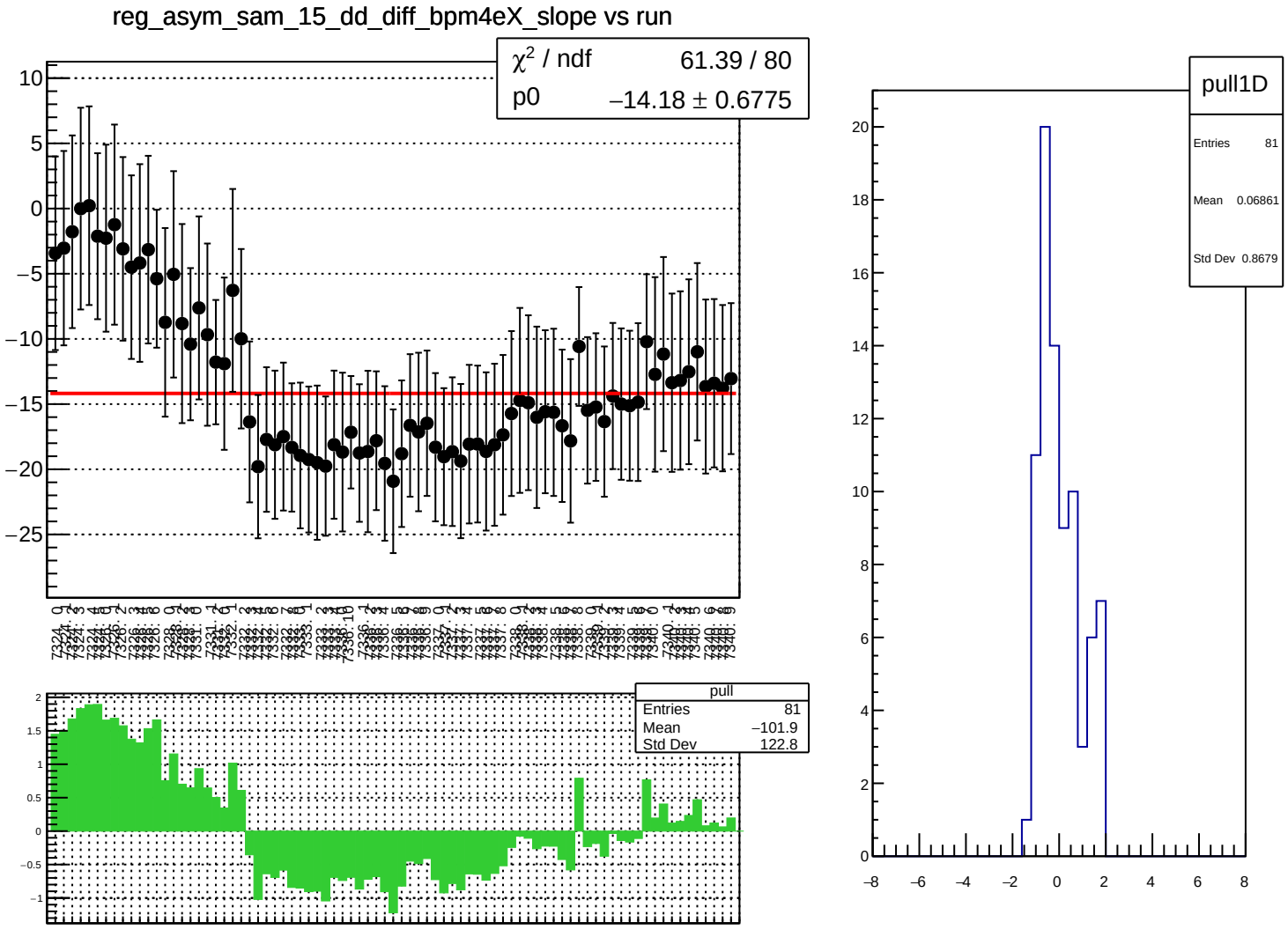

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 77.96 / 80
p0 −0.1677 ± 0.01836
pull
Entries 81
Mean 200.3
Std Dev 160.7

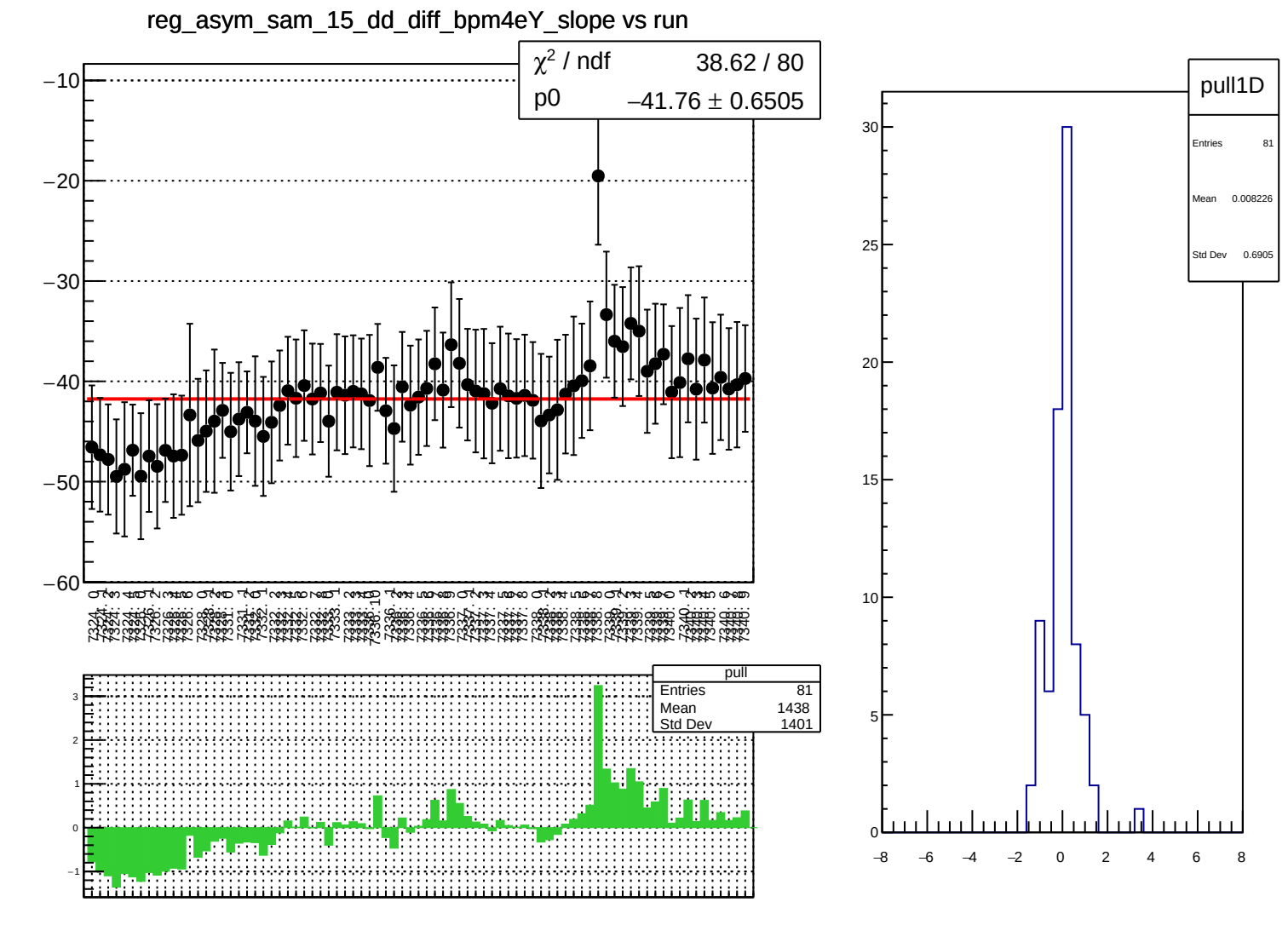

pull1D
Entries 81
Mean −0.1279
Std Dev 0.9727

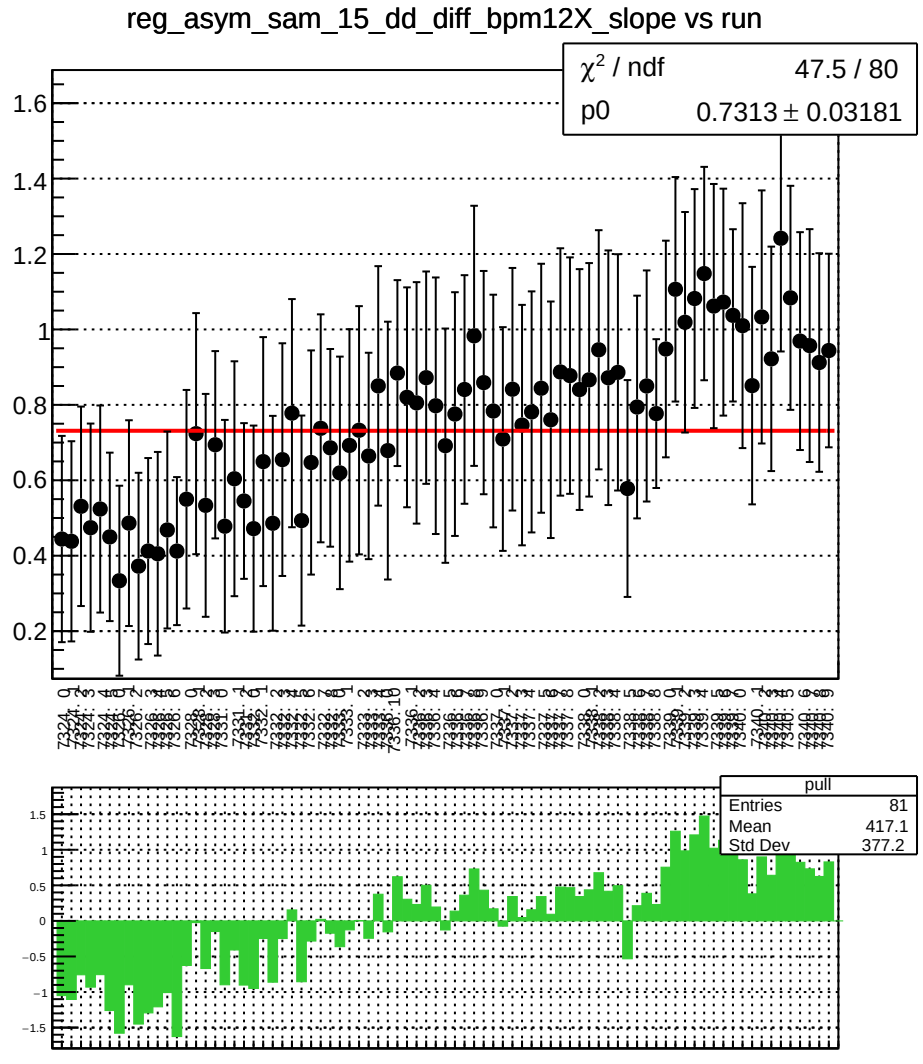

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 66.63 / 80
p0 7.72 ± 0.6827
pull
Entries 81
Mean −126.7
Std Dev 150.9

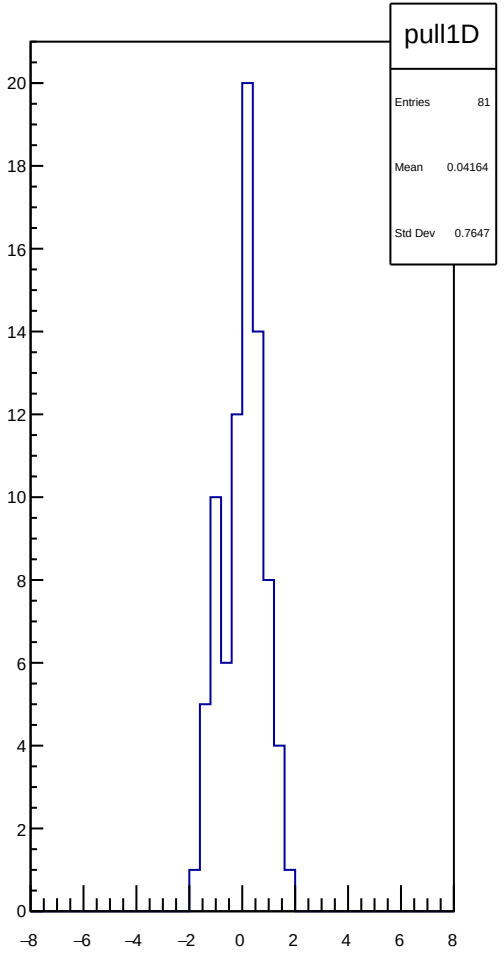

pull1D
Entries 81
Mean −0.06852
Std Dev 0.9044

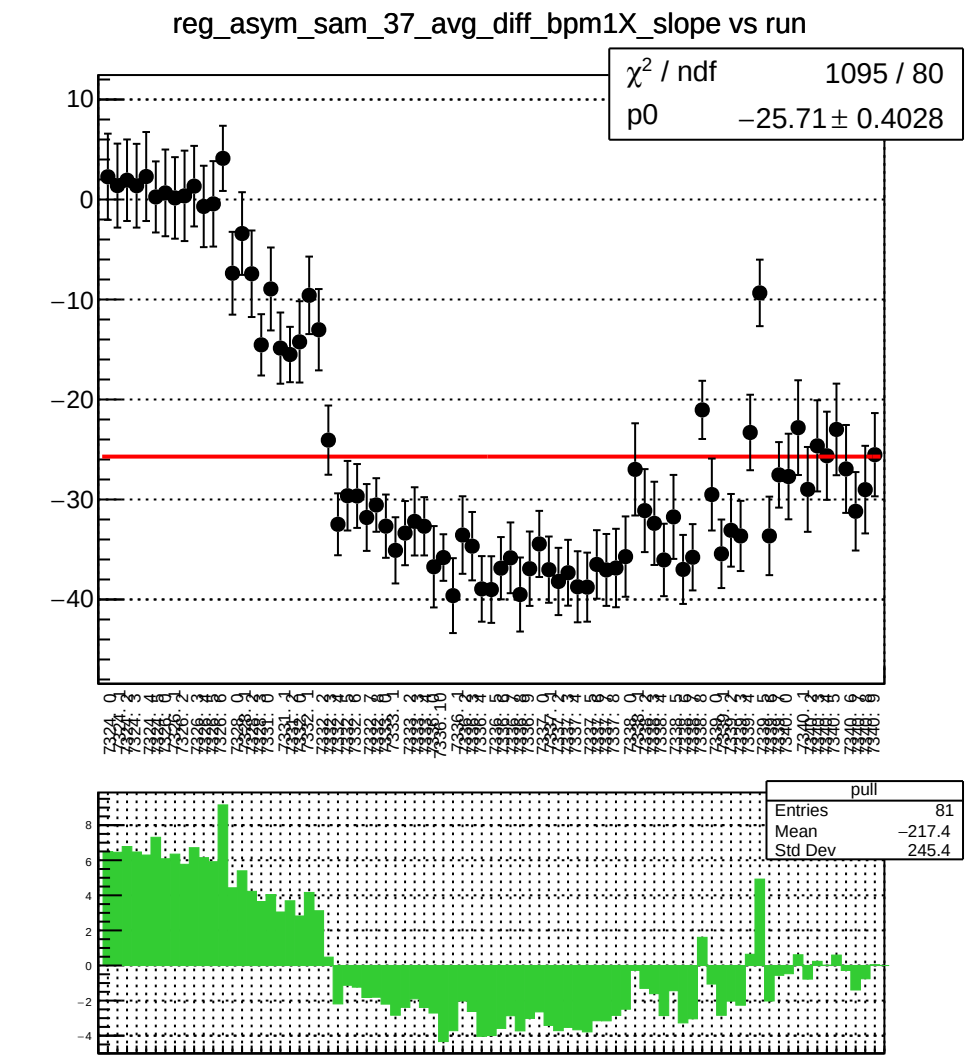

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 64.84 / 80
p0 −54.22 ± 0.6179
pull
Entries 81
Mean 828.5
Std Dev 791.6
pull1D
Entries 81
Mean −0.0216
Std Dev 0.8944

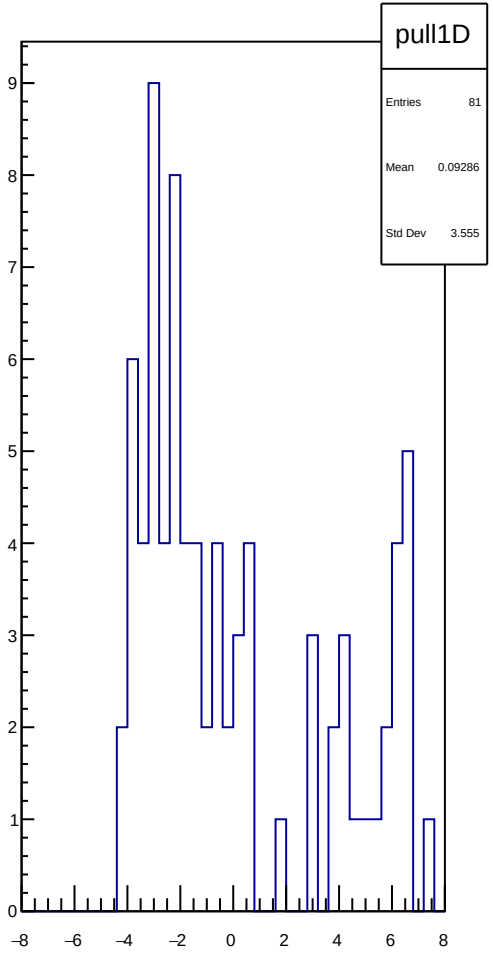

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 61.39 / 80
p0 −14.18 ± 0.6775
pull
Entries 81
Mean −101.9
Std Dev 122.8
pull1D
Entries 81
Mean 0.06861
Std Dev 0.8679

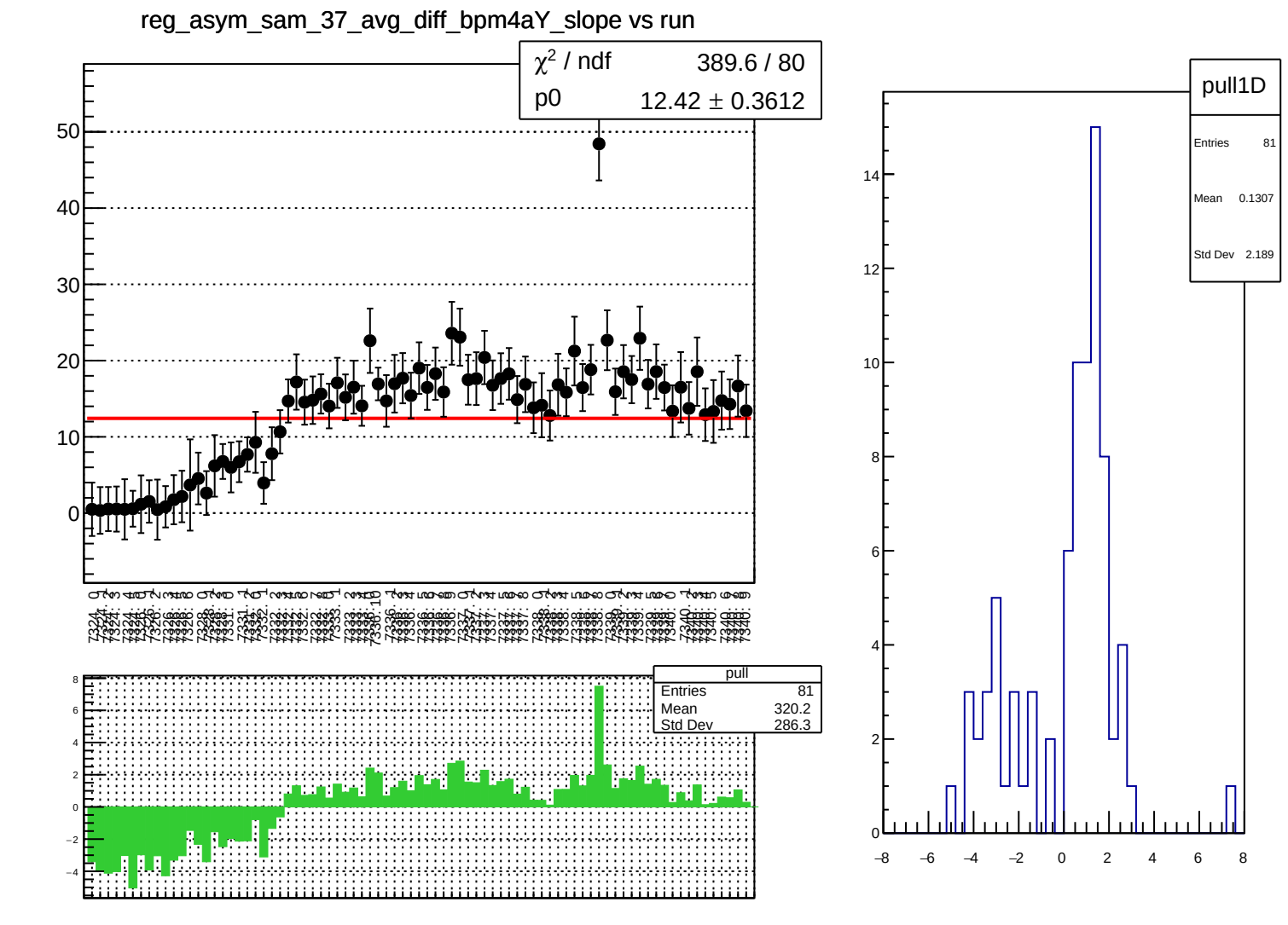

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.62 / 80
p0 −41.76 ± 0.6505
pull
Entries 81
Mean 1438
Std Dev 1401
pull1D
Entries 81
Mean 0.008226
Std Dev 0.6905

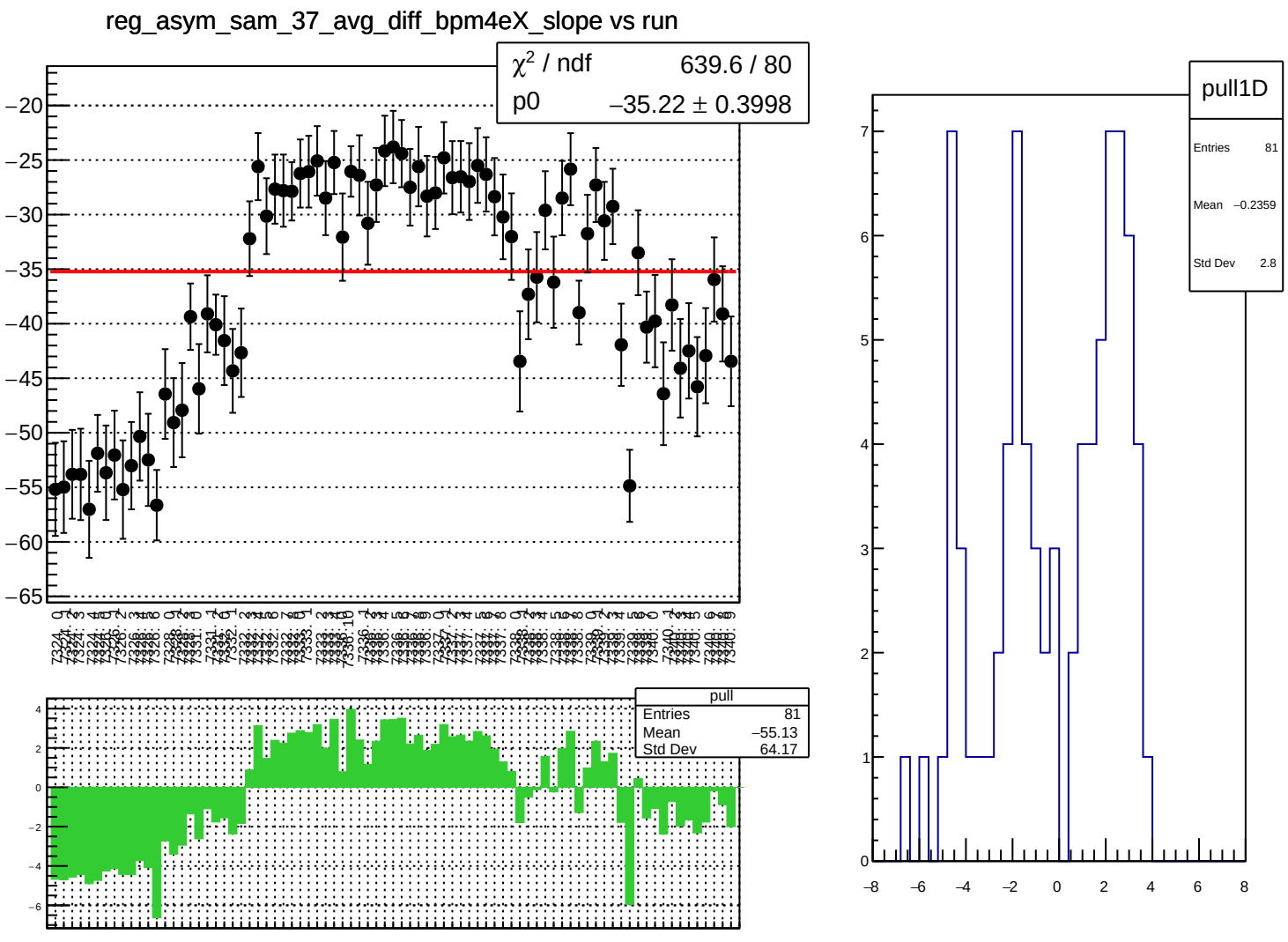

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 47.5 / 80
p0 0.7313 ± 0.03181
pull
Entries 81
Mean 417.1
Std Dev 377.2

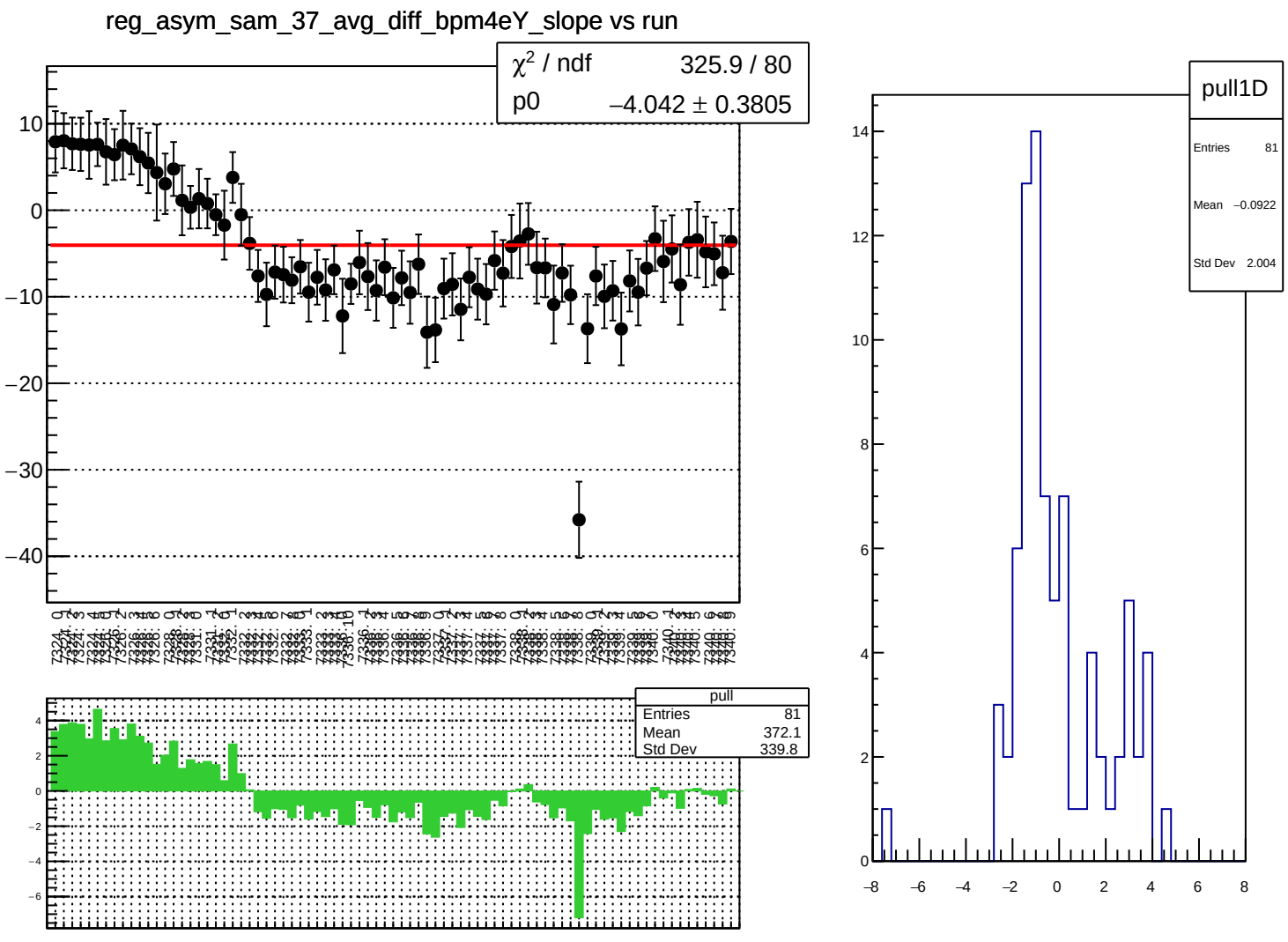

pull1D
Entries 81
Mean 0.04164
Std Dev 0.7647

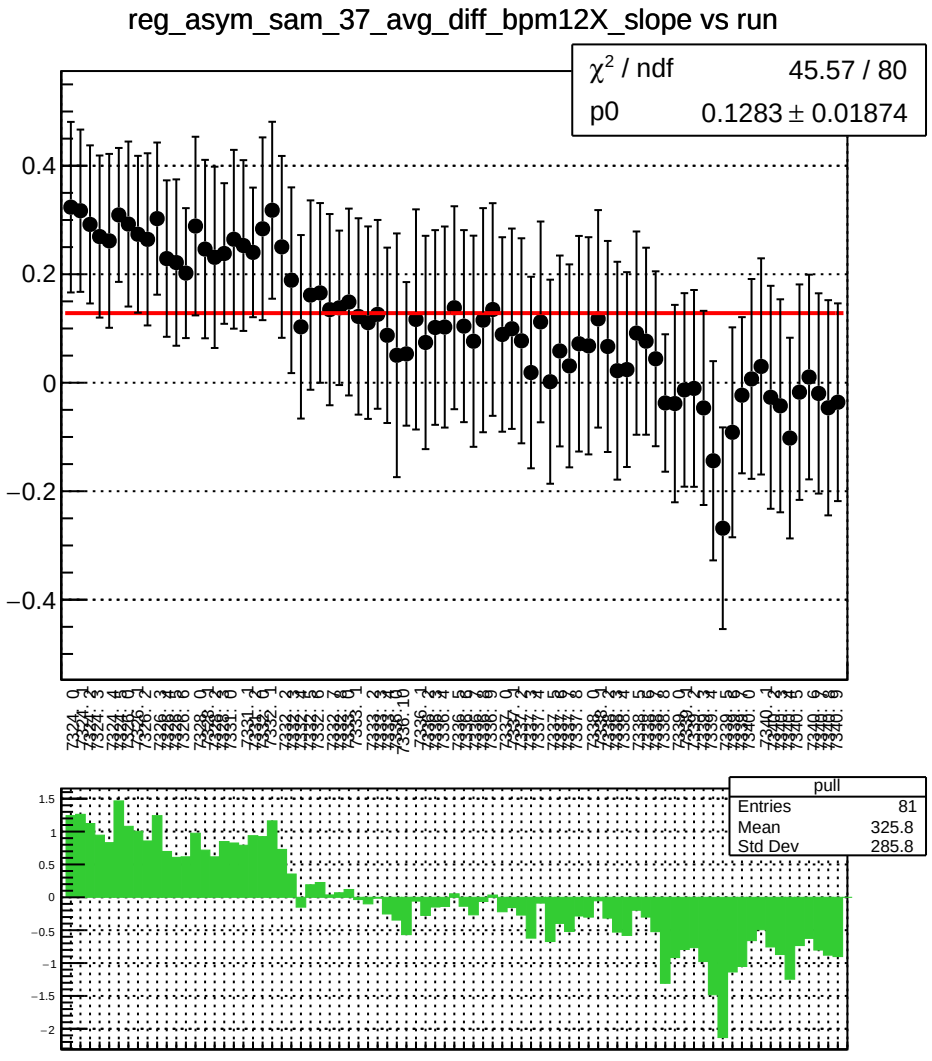

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 1095 / 80
p0 −25.71 ± 0.4028
pull
Entries 81
Mean −217.4
Std Dev 245.4

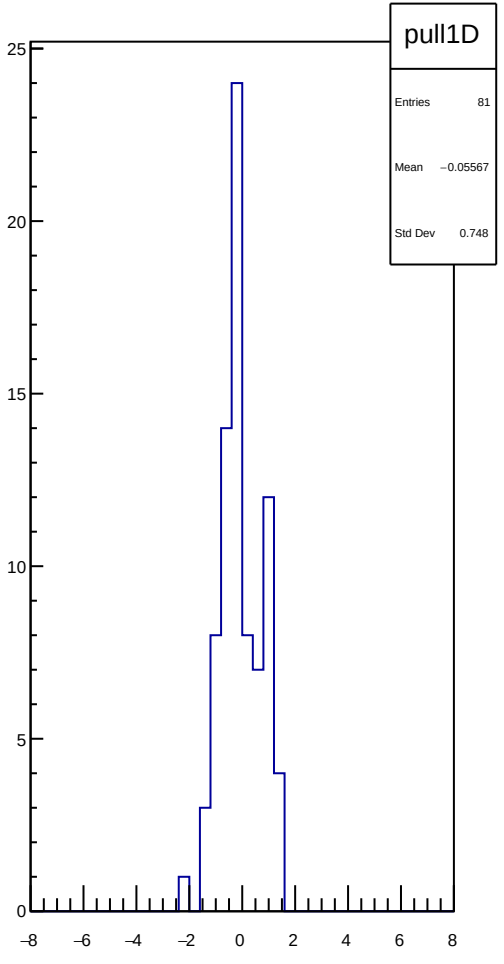

pull1D
Entries 81
Mean 0.09286
Std Dev 3.555

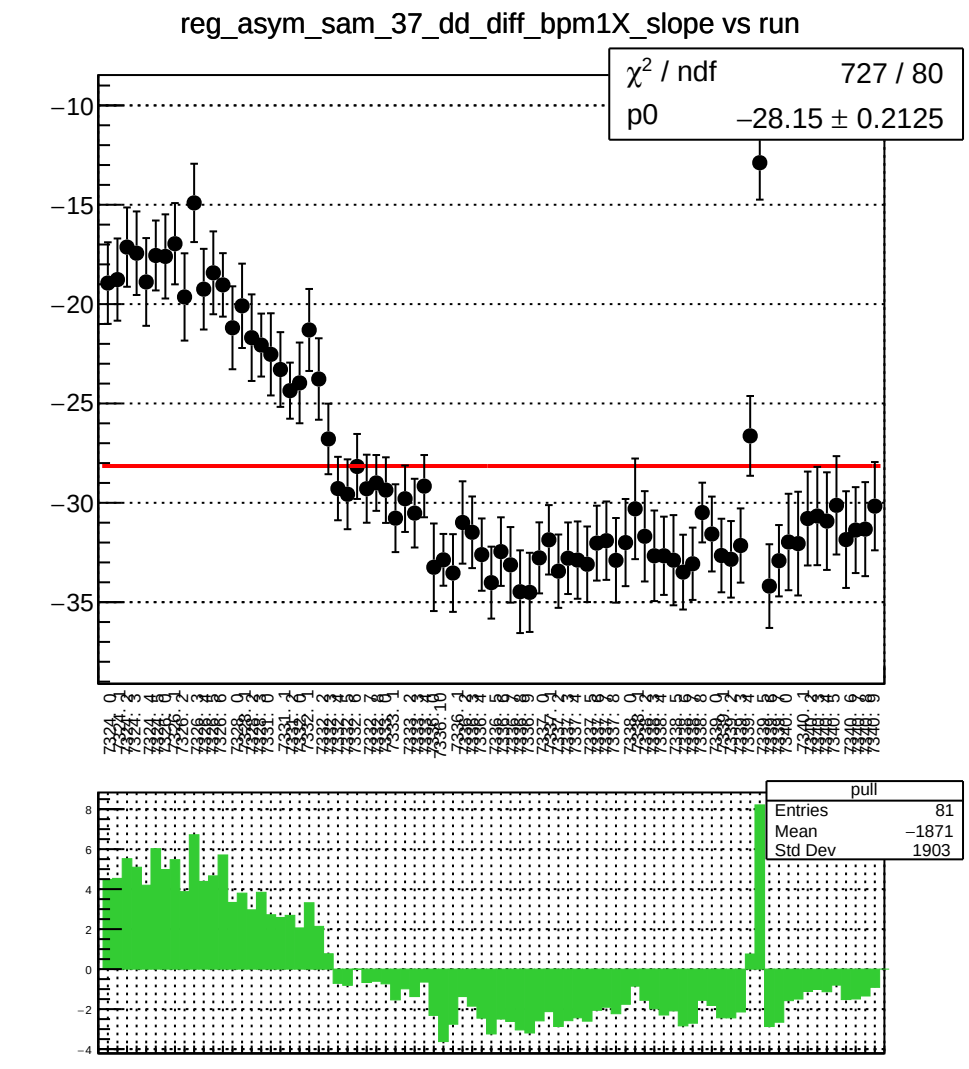

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 389.6 / 80
p0 12.42 ± 0.3612
pull
Entries 81
Mean 320.2
Std Dev 286.3
pull1D
Entries 81
Mean 0.1307
Std Dev 2.189

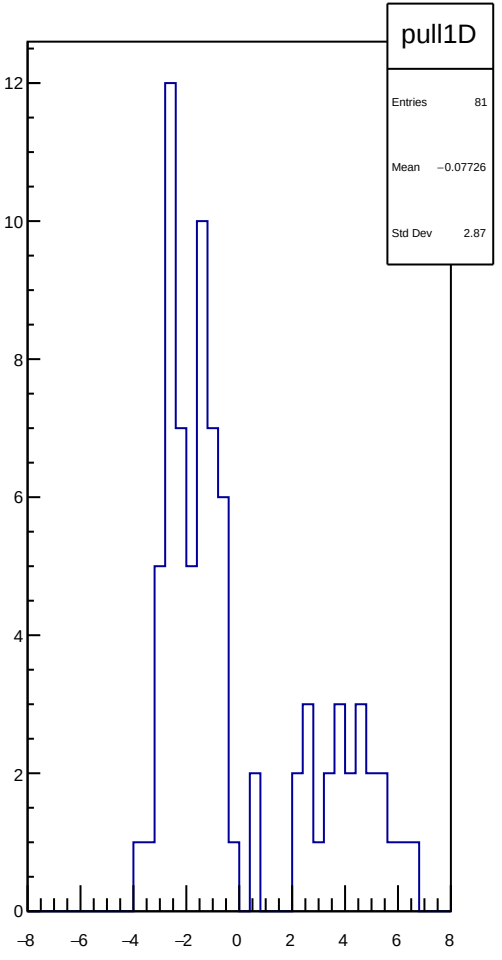

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 639.6 / 80
p0 −35.22 ± 0.3998
pull
Entries 81
Mean −55.13
Std Dev 64.17
pull1D
Entries 81
Mean −0.2359
Std Dev 2.8

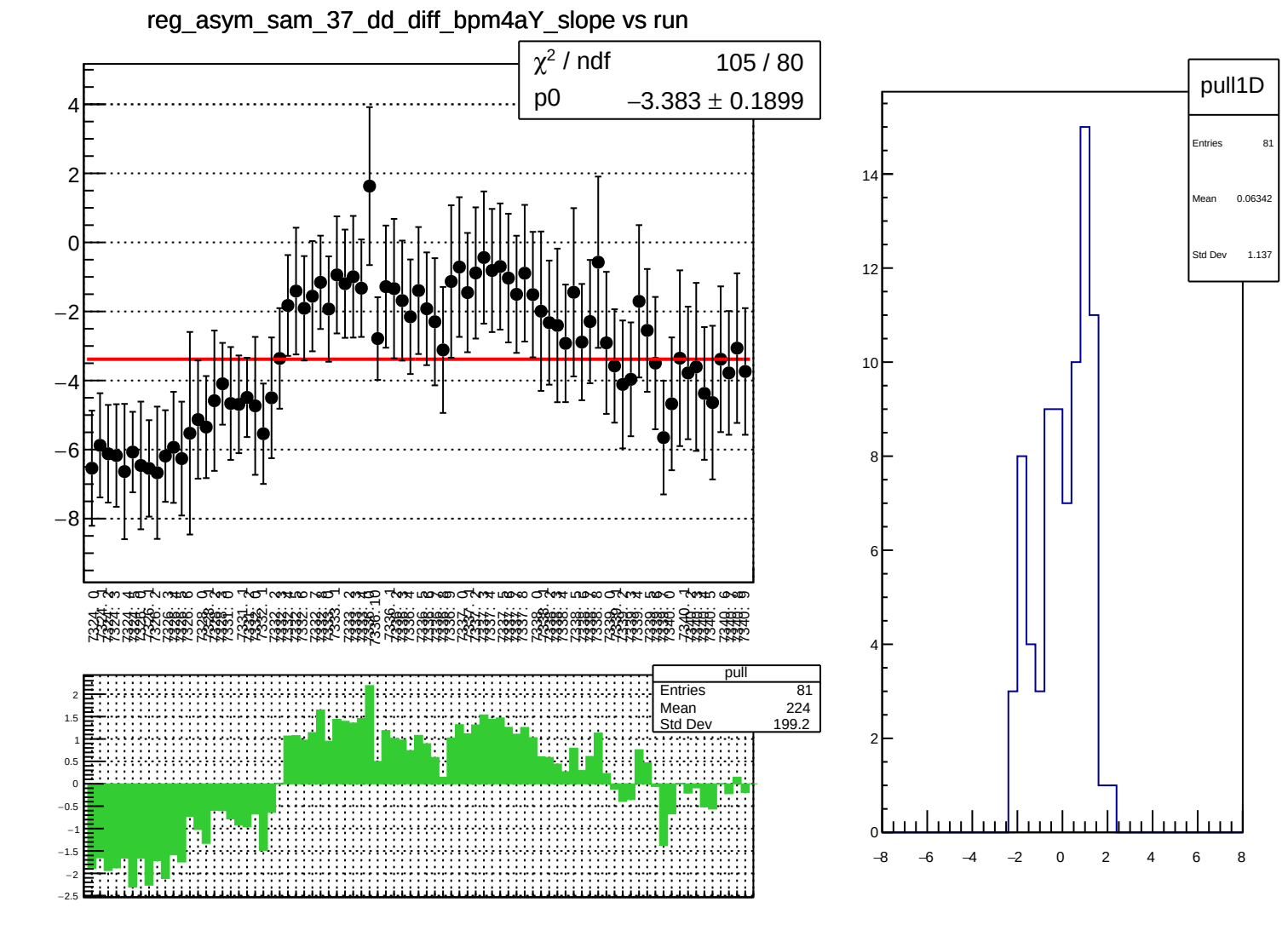

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 325.9 / 80
p0 −4.042 ± 0.3805
pull
Entries 81
Mean 372.1
Std Dev 339.8
pull1D
Entries 81
Mean −0.0922
Std Dev 2.004

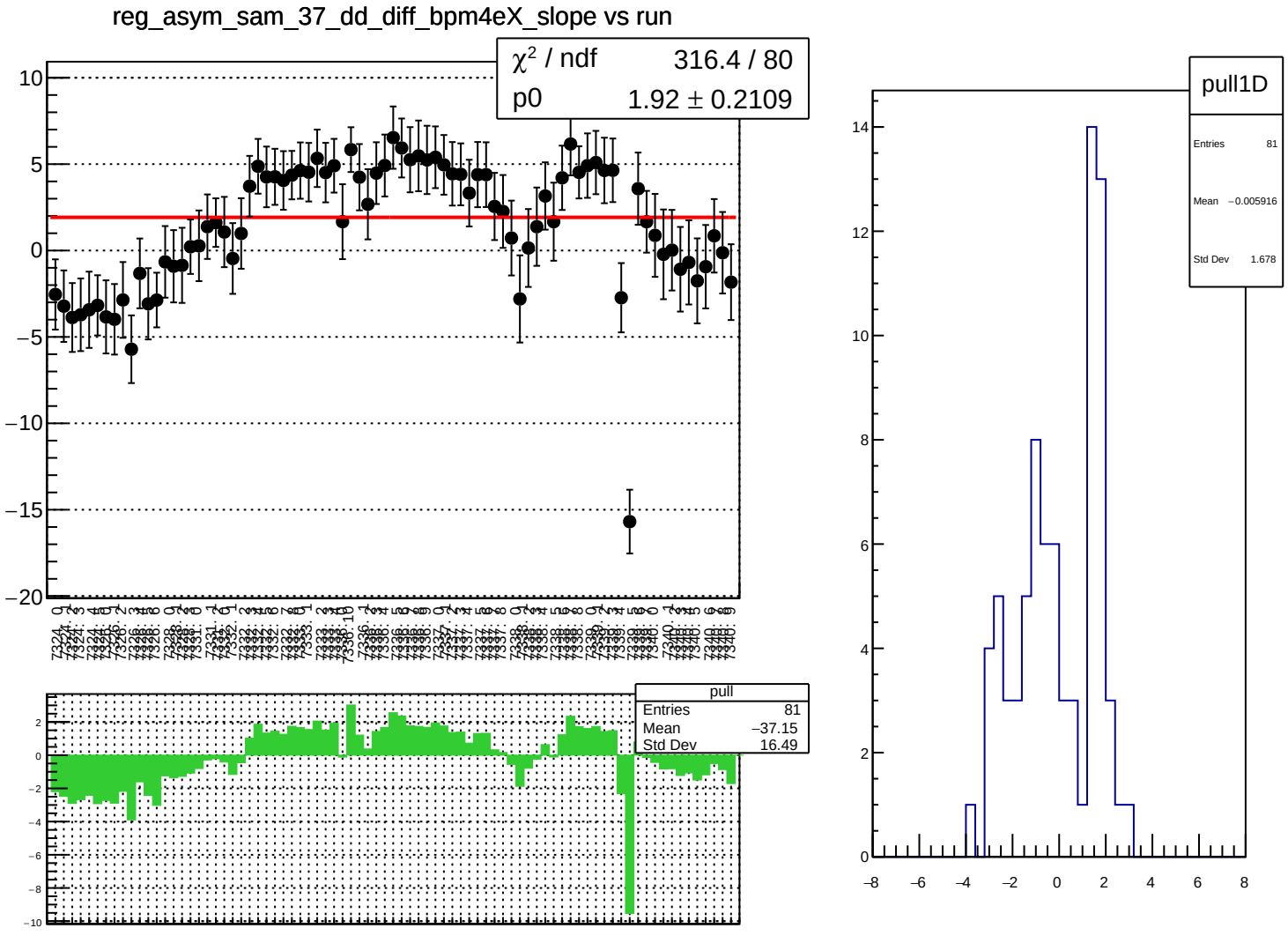

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 45.57 / 80
p0 0.1283 ± 0.01874
pull
Entries 81
Mean 325.8
Std Dev 285.8

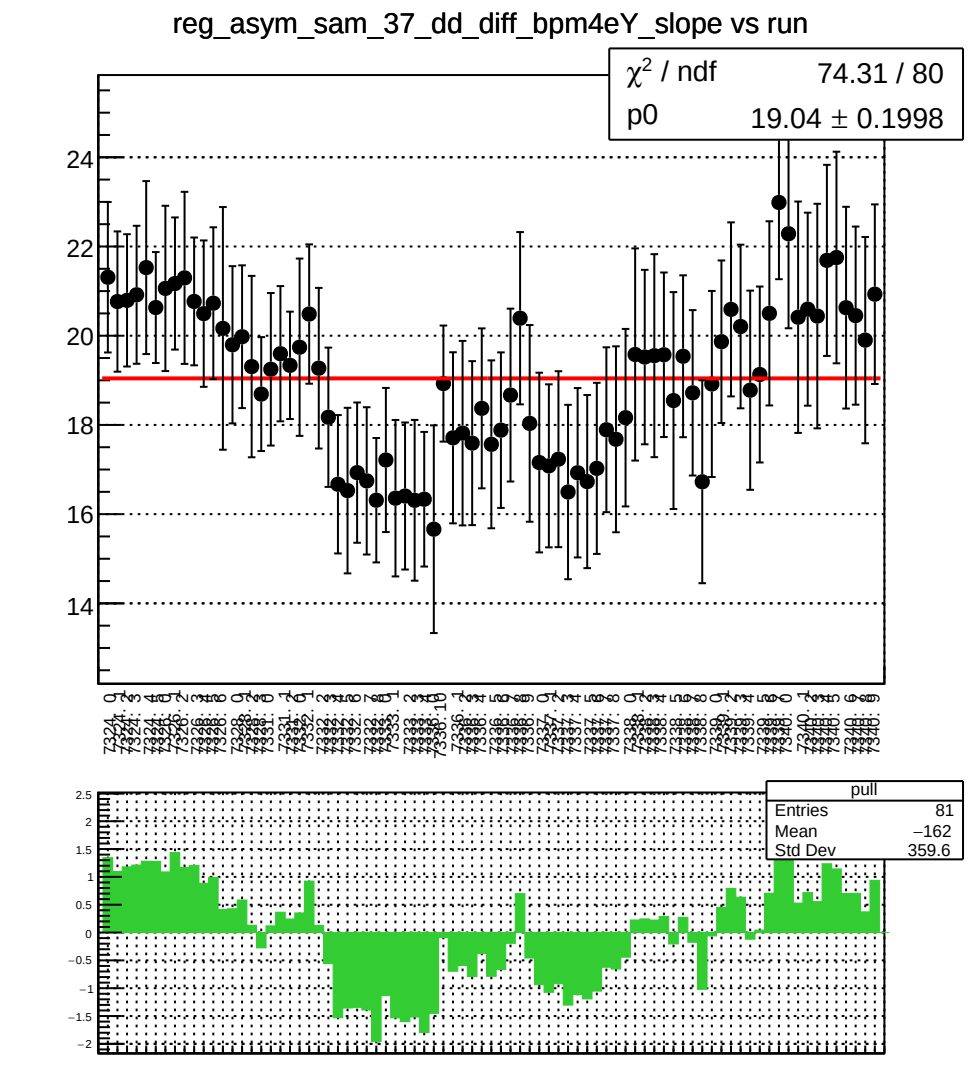

pull1D
Entries 81
Mean −0.05567
Std Dev 0.748

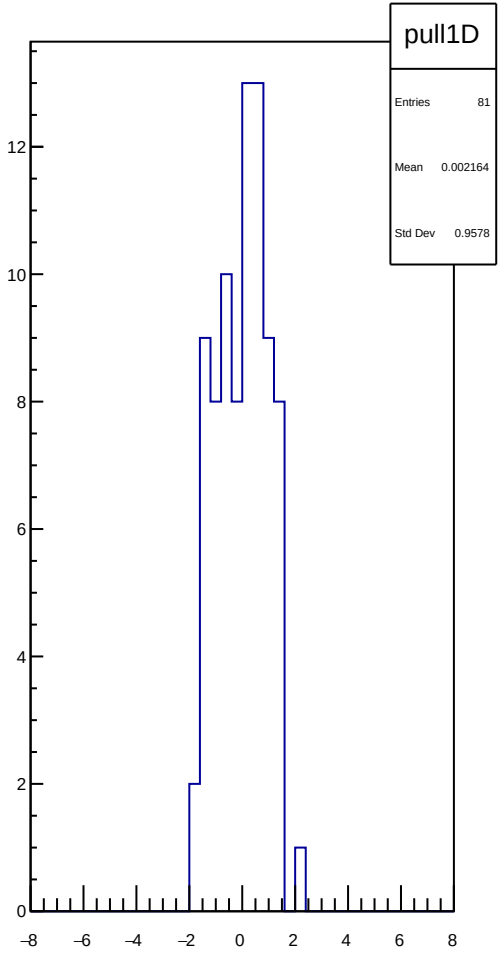

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 727 / 80
p0 −28.15 ± 0.2125
pull
Entries 81
Mean −1871
Std Dev 1903

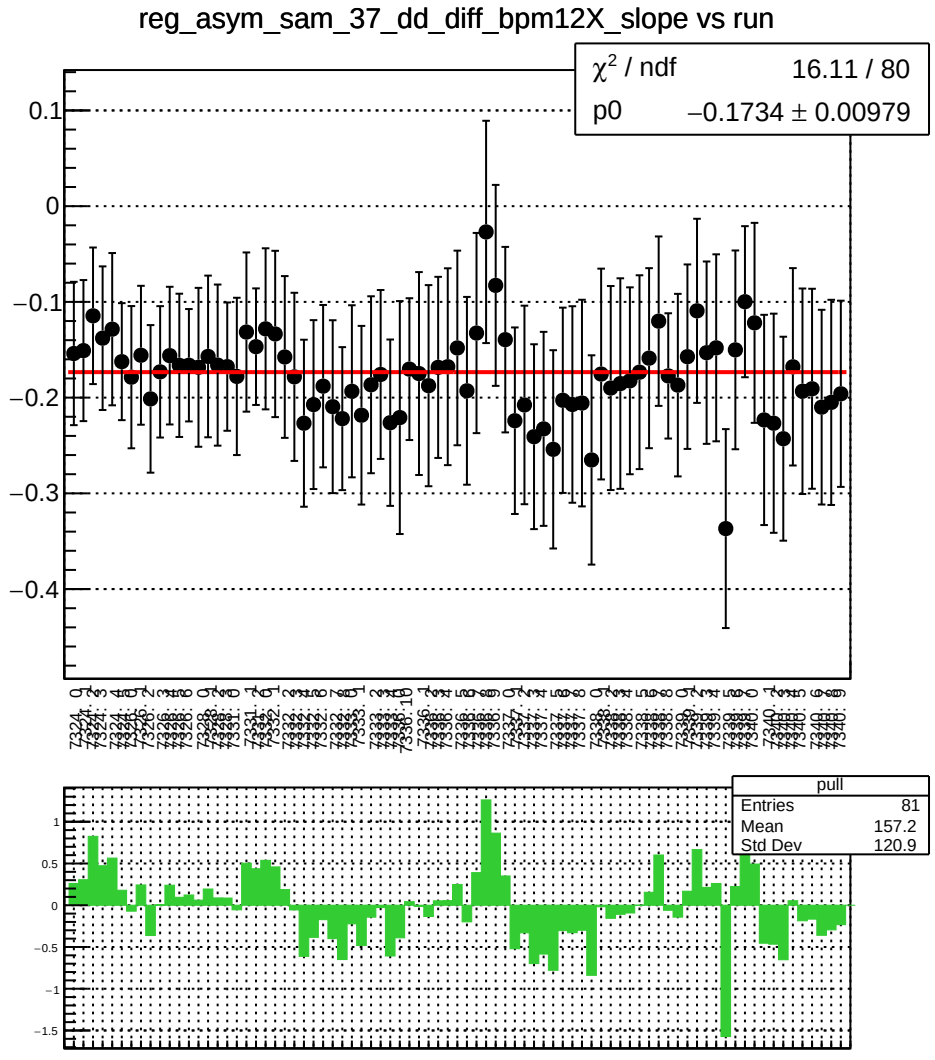

pull1D
Entries 81
Mean −0.07726
Std Dev 2.87

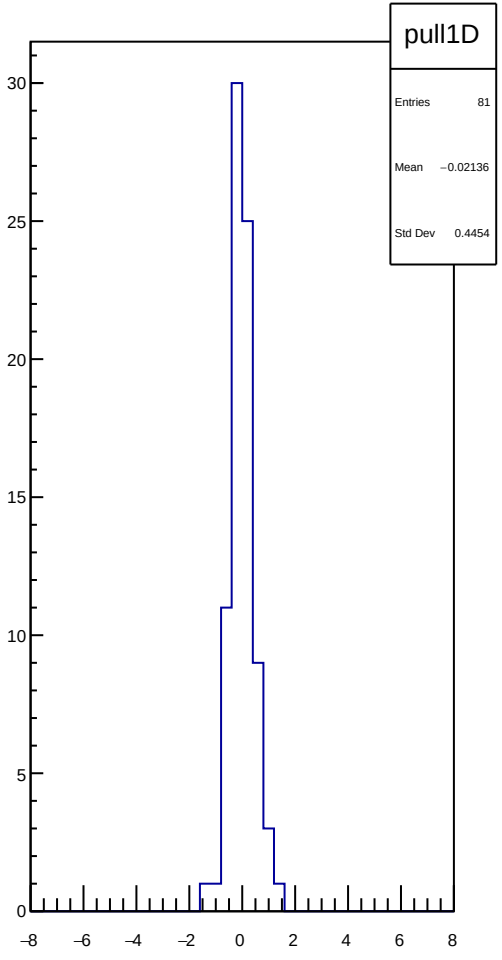

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 105 / 80
p0 −3.383 ± 0.1899
pull
Entries 81
Mean 224
Std Dev 199.2
pull1D
Entries 81
Mean 0.06342
Std Dev 1.137

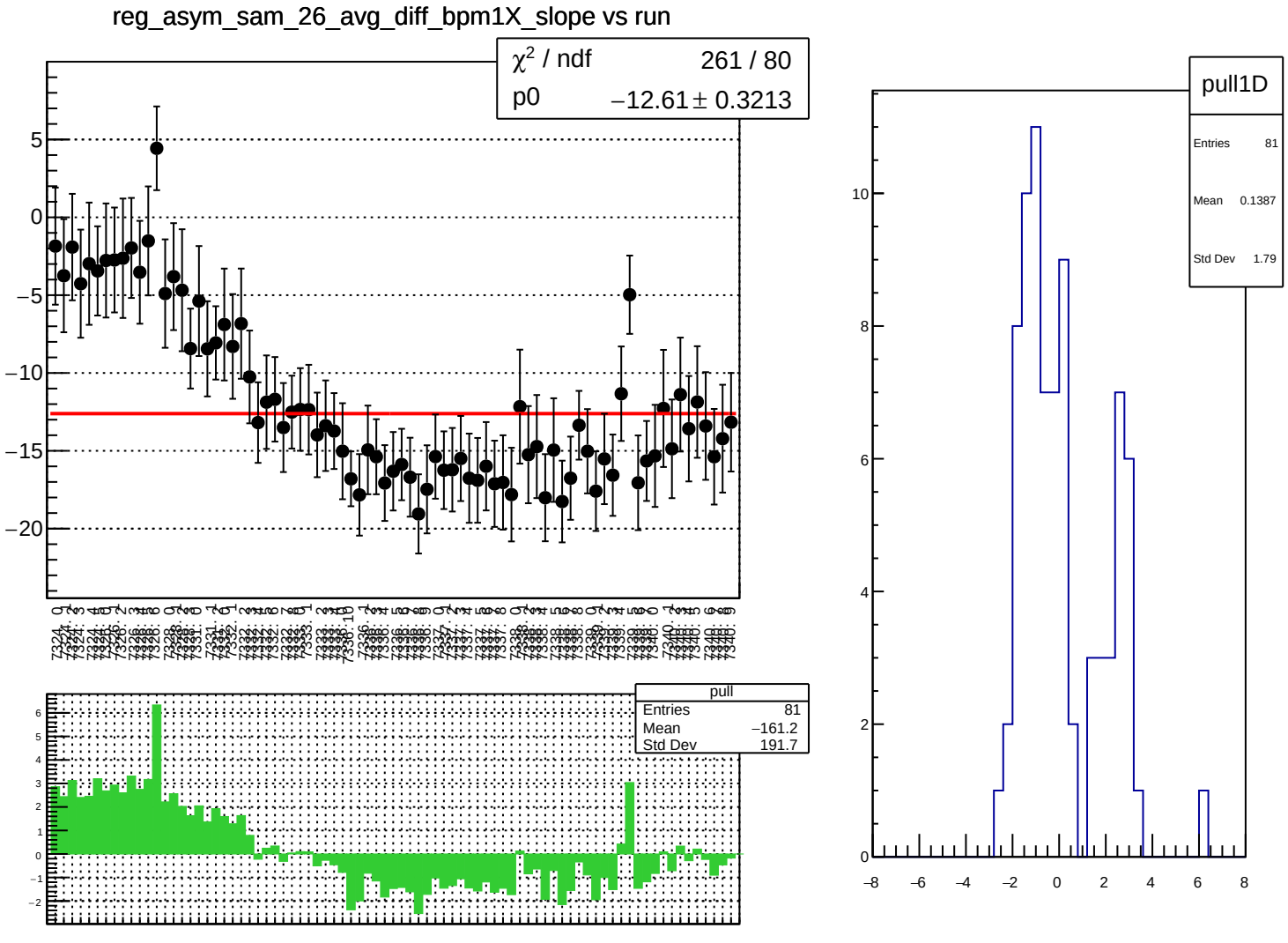

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 316.4 / 80
p0 1.92 ± 0.2109
pull
Entries 81
Mean −37.15
Std Dev 16.49
pull1D
Entries 81
Mean −0.005916
Std Dev 1.678

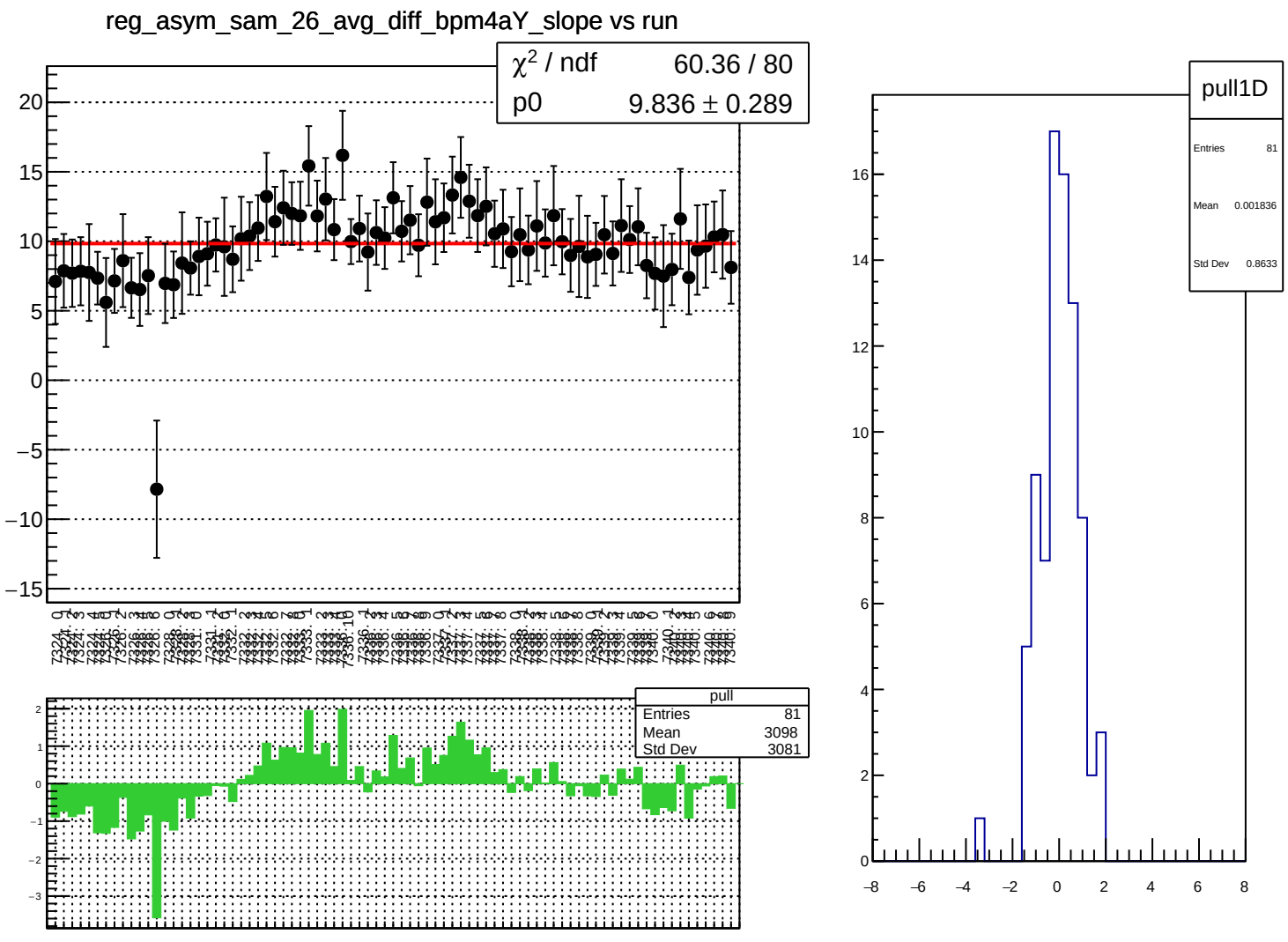

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 74.31 / 80
p0 19.04 ± 0.1998
pull
Entries 81
Mean −162
Std Dev 359.6

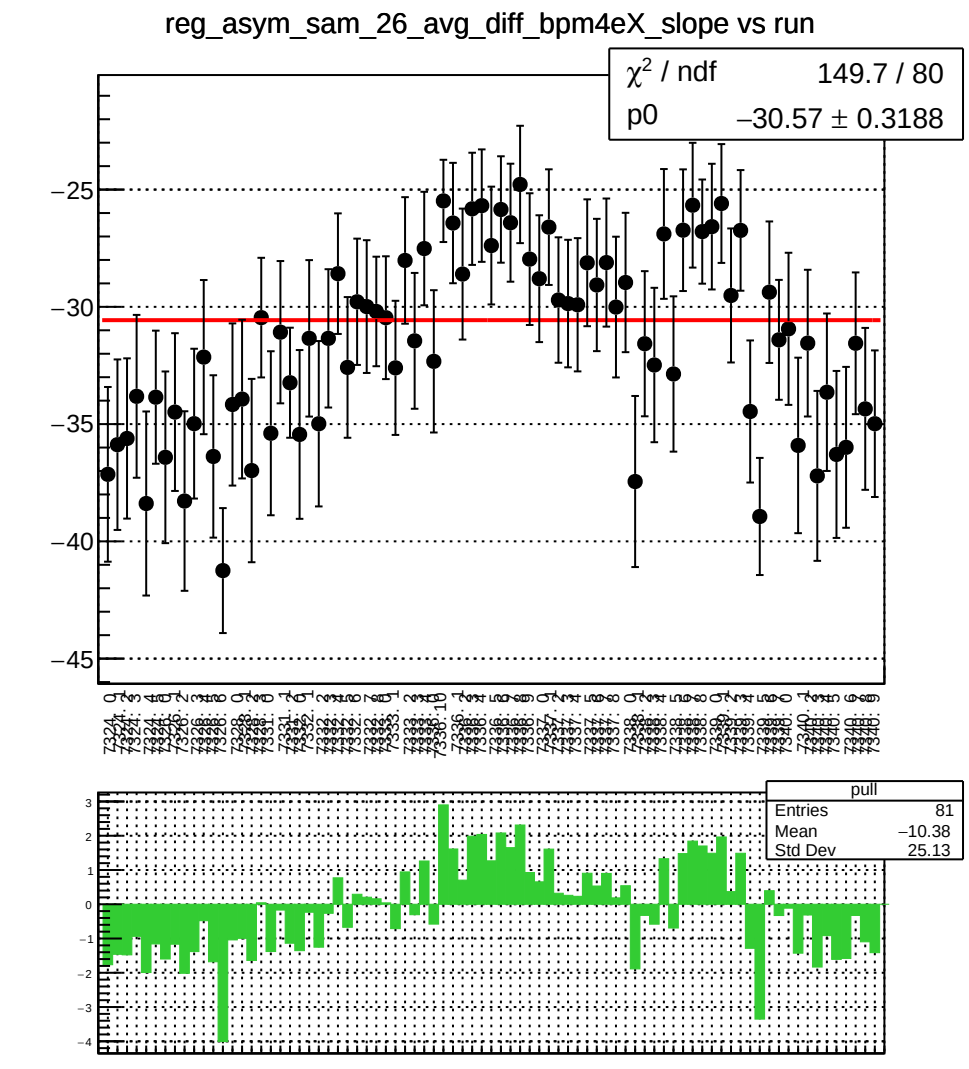

pull1D
Entries 81
Mean 0.002164
Std Dev 0.9578

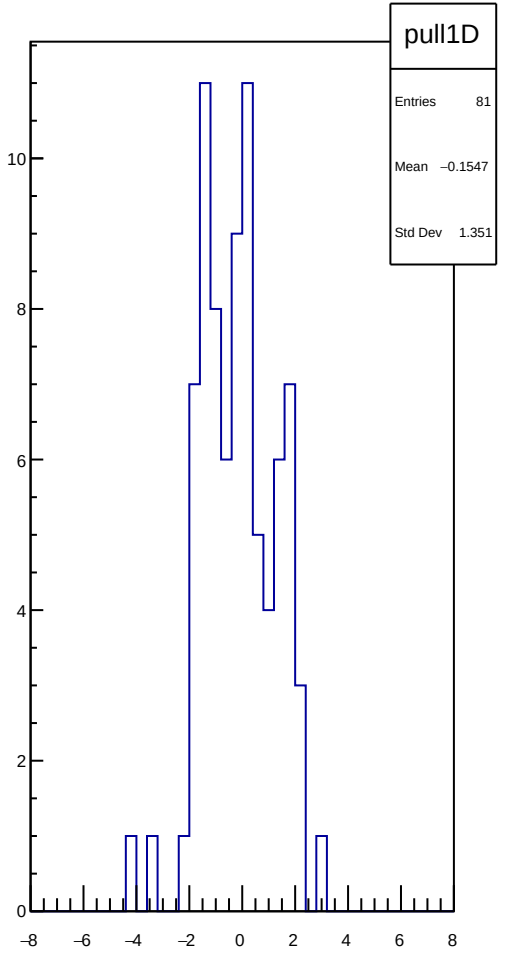

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 16.11 / 80
p0 −0.1734 ± 0.00979
pull
Entries 81
Mean 157.2
Std Dev 120.9

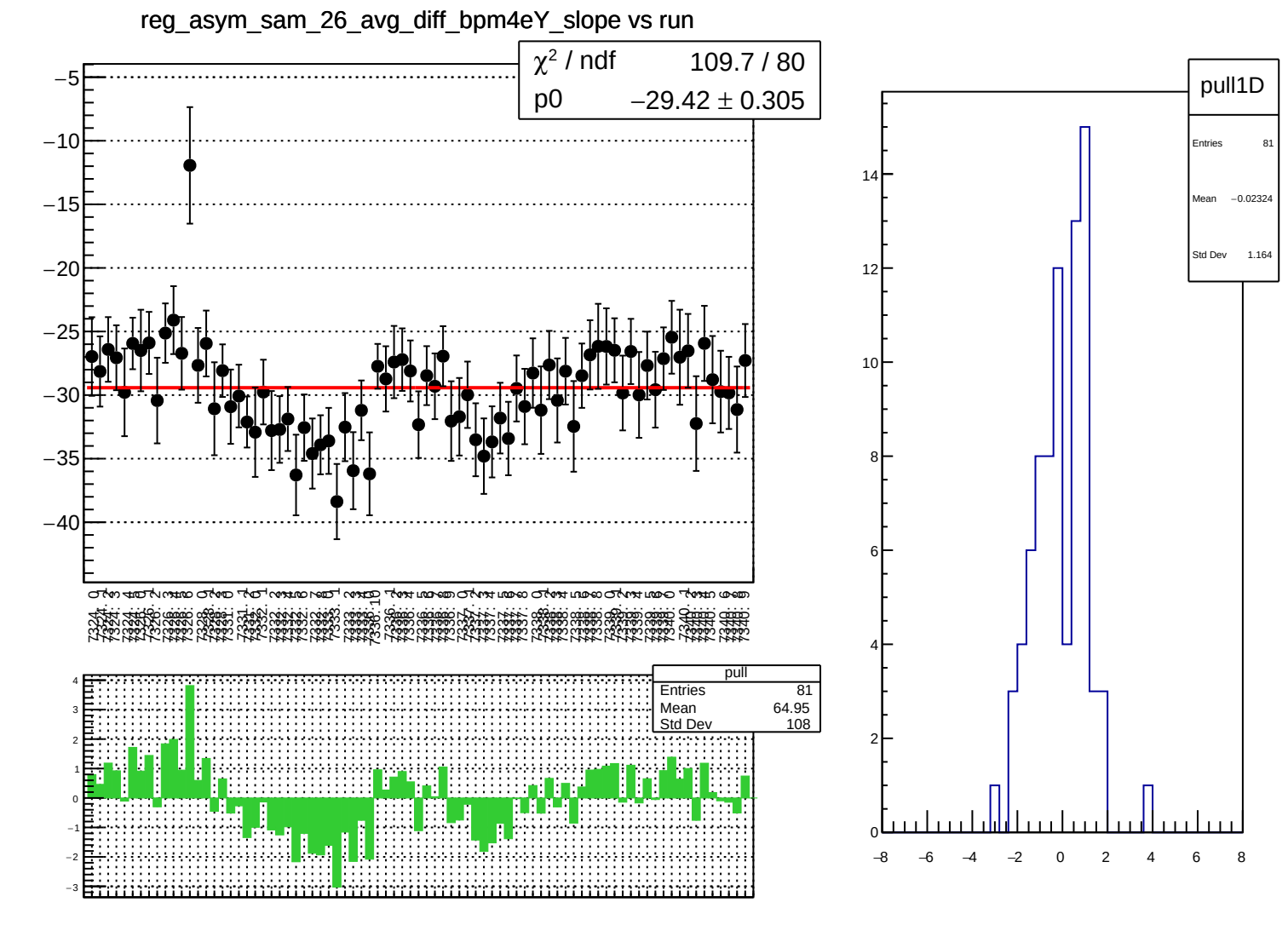

pull1D
Entries 81
Mean −0.02136
Std Dev 0.4454

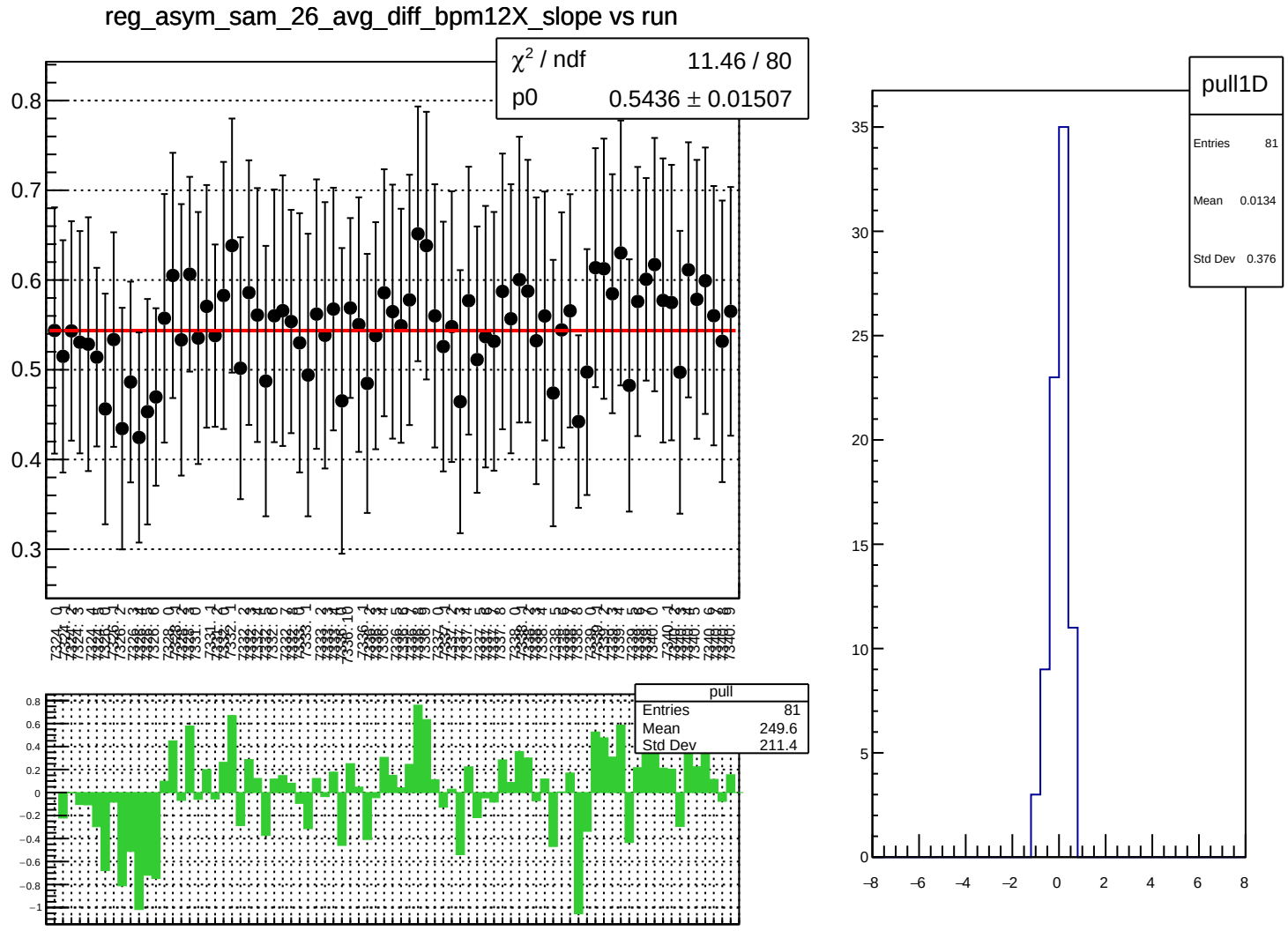

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 261 / 80
p0 −12.61 ± 0.3213
pull
Entries 81
Mean −161.2
Std Dev 191.7
pull1D
Entries 81
Mean 0.1387
Std Dev 1.79

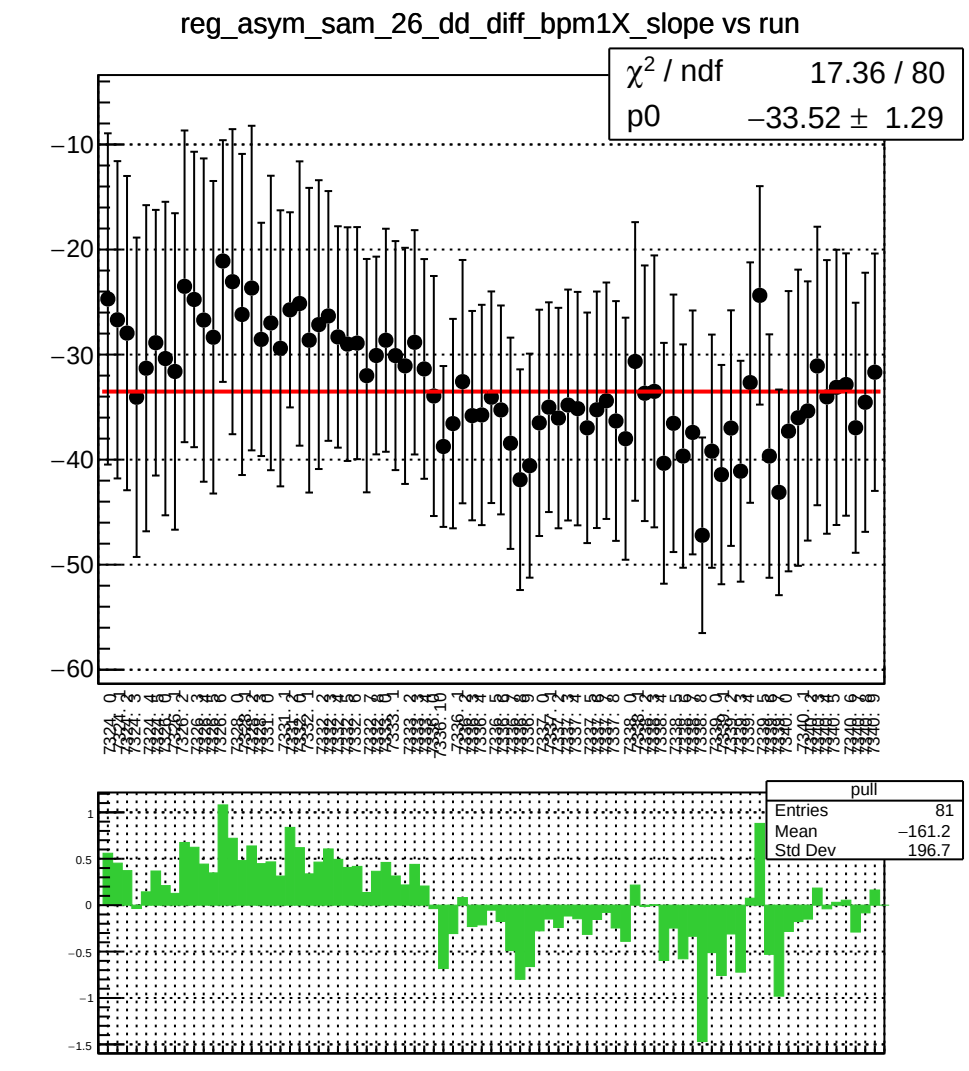

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 60.36 / 80
p0 9.836 ± 0.289
pull
Entries 81
Mean 3098
Std Dev 3081
pull1D
Entries 81
Mean 0.001836
Std Dev 0.8633

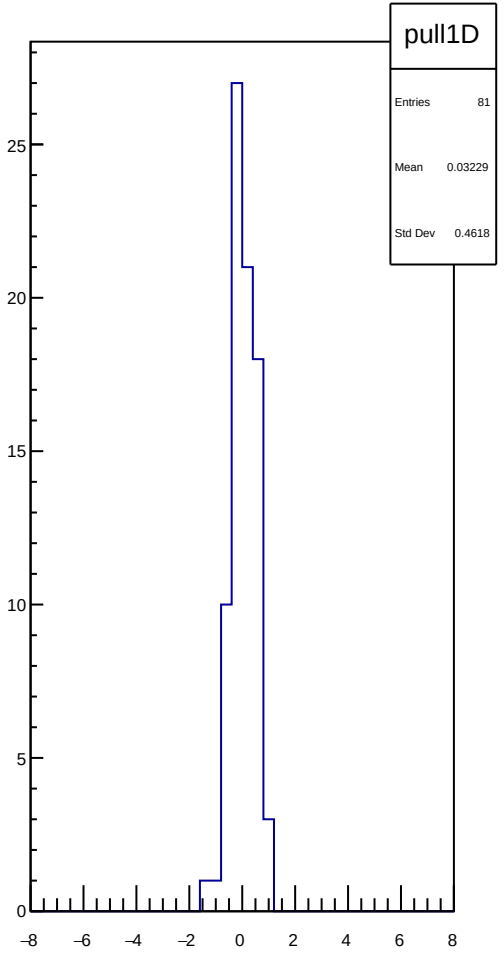

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 149.7 / 80
p0 −30.57 ± 0.3188
−25
−30
−35
−40
−45
pull
Entries 81
Mean −10.38
Std Dev 25.13
3
2
1
0
−1
−2
−3
−4

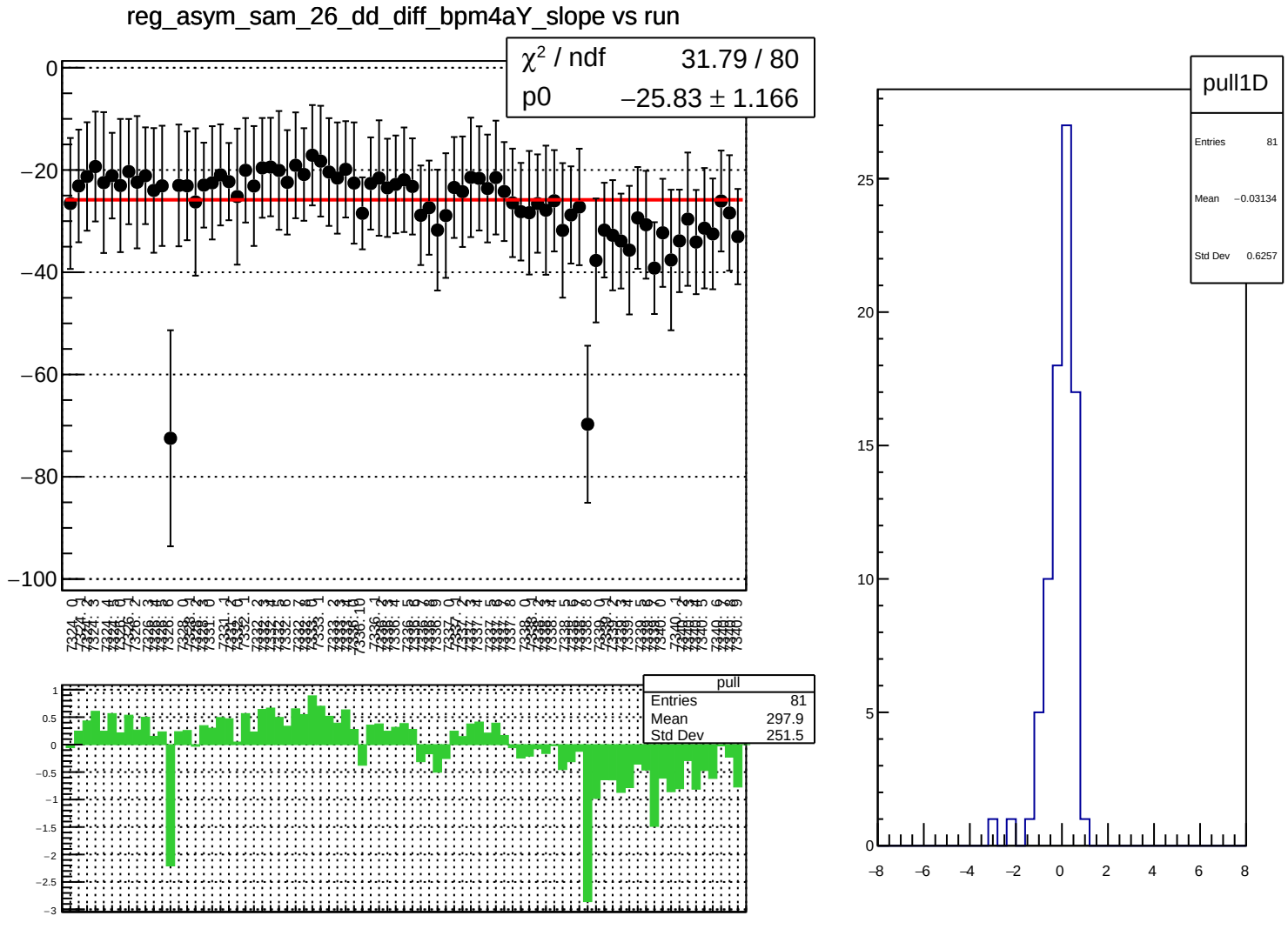

pull1D
Entries 81
Mean −0.1547
Std Dev 1.351
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

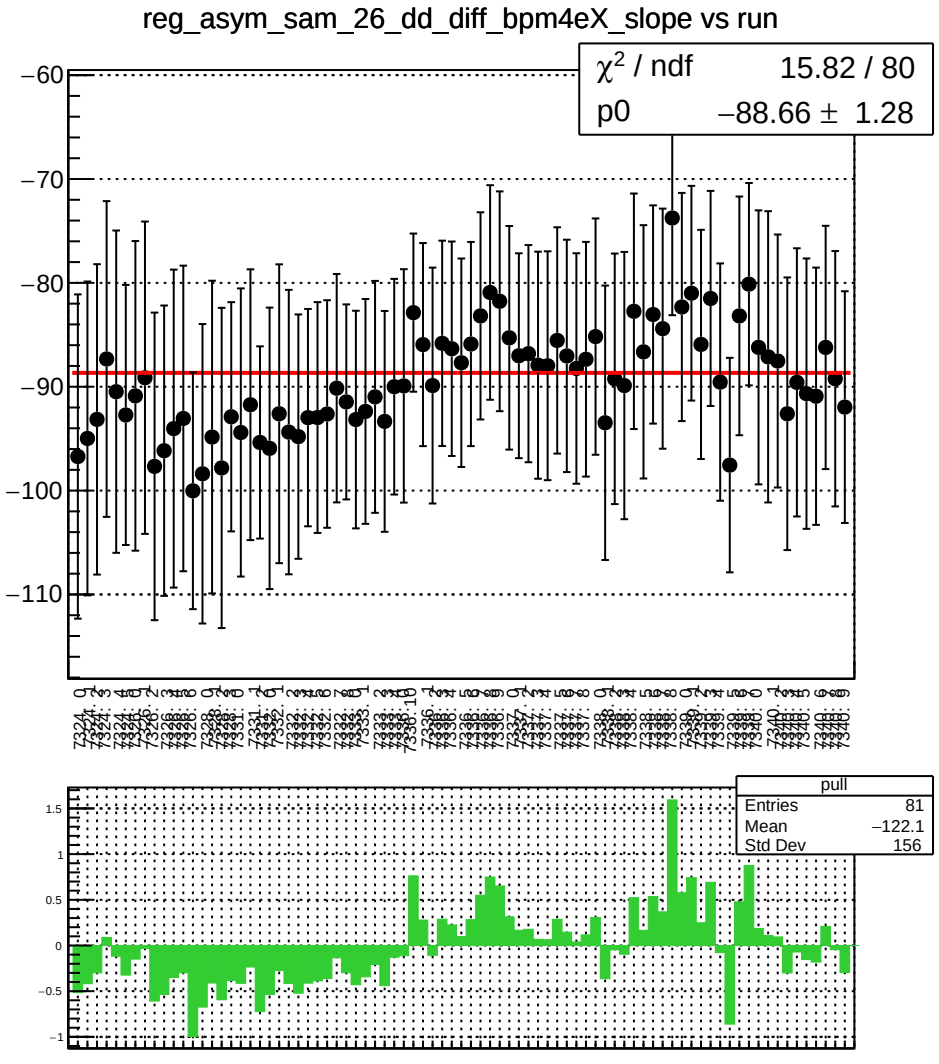

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 109.7 / 80
p0 −29.42 ± 0.305
pull
Entries 81
Mean 64.95
Std Dev 108
pull1D
Entries 81
Mean −0.02324
Std Dev 1.164

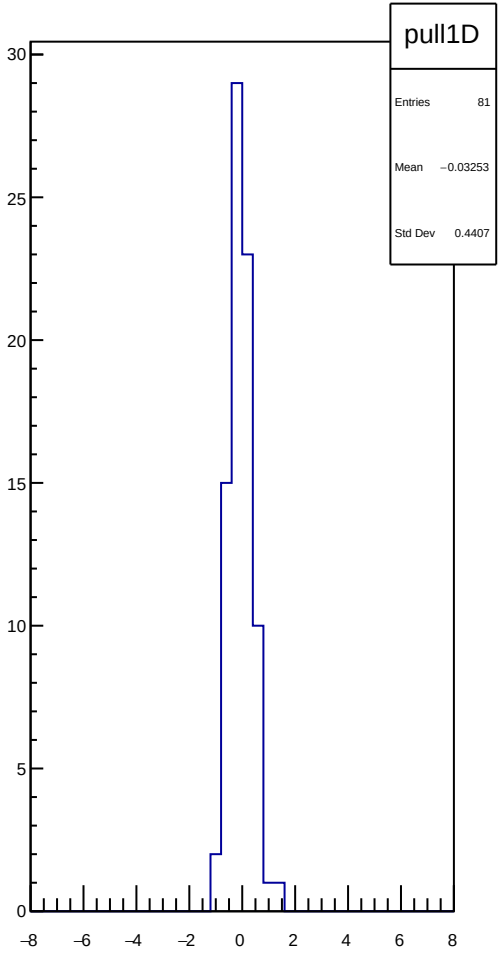

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 11.46 / 80
p0 0.5436 ± 0.01507
pull
Entries 81
Mean 249.6
Std Dev 211.4
pull1D
Entries 81
Mean 0.0134
Std Dev 0.376

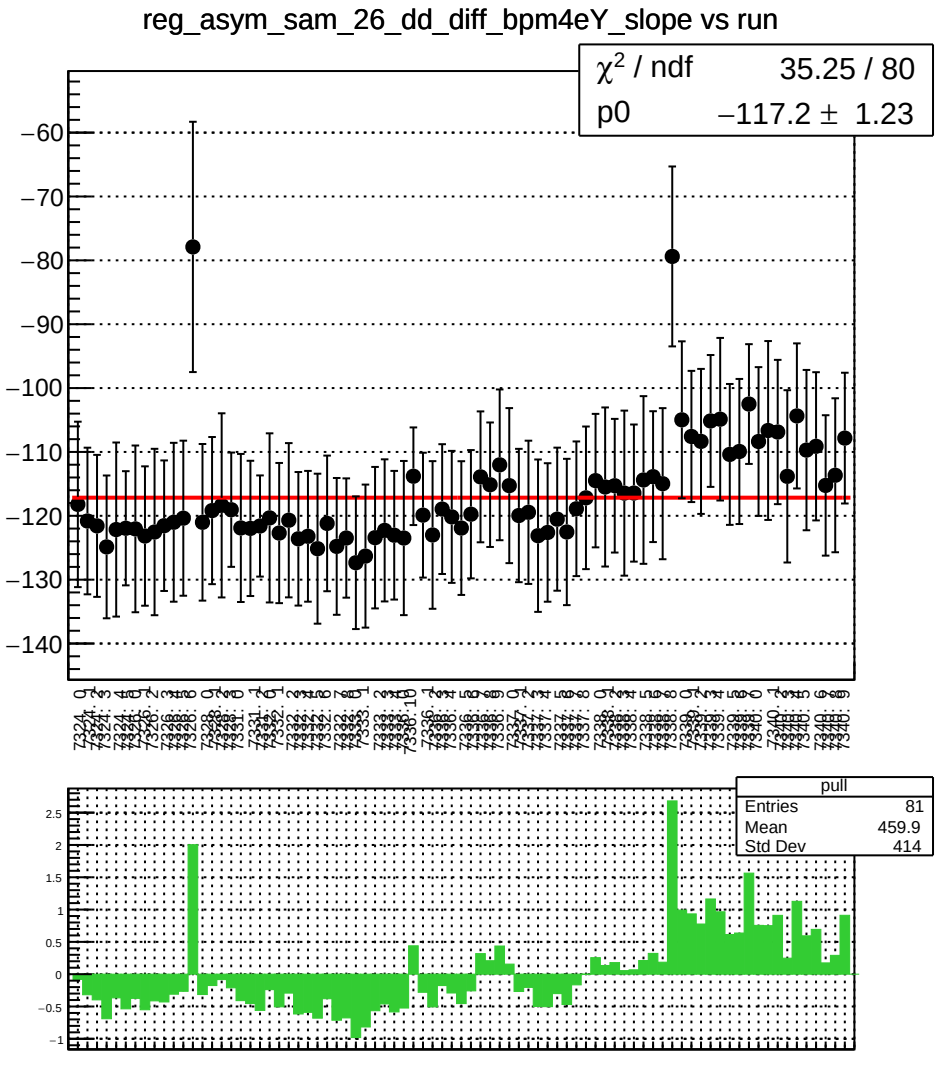

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 17.36 / 80
p0 −33.52 ± 1.29
pull
Entries 81
Mean −161.2
Std Dev 196.7

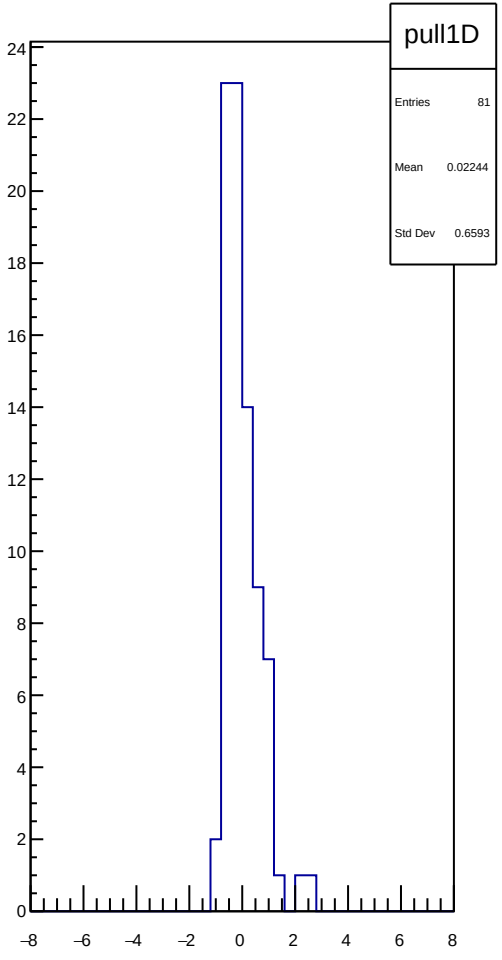

pull1D
Entries 81
Mean 0.03229
Std Dev 0.4618

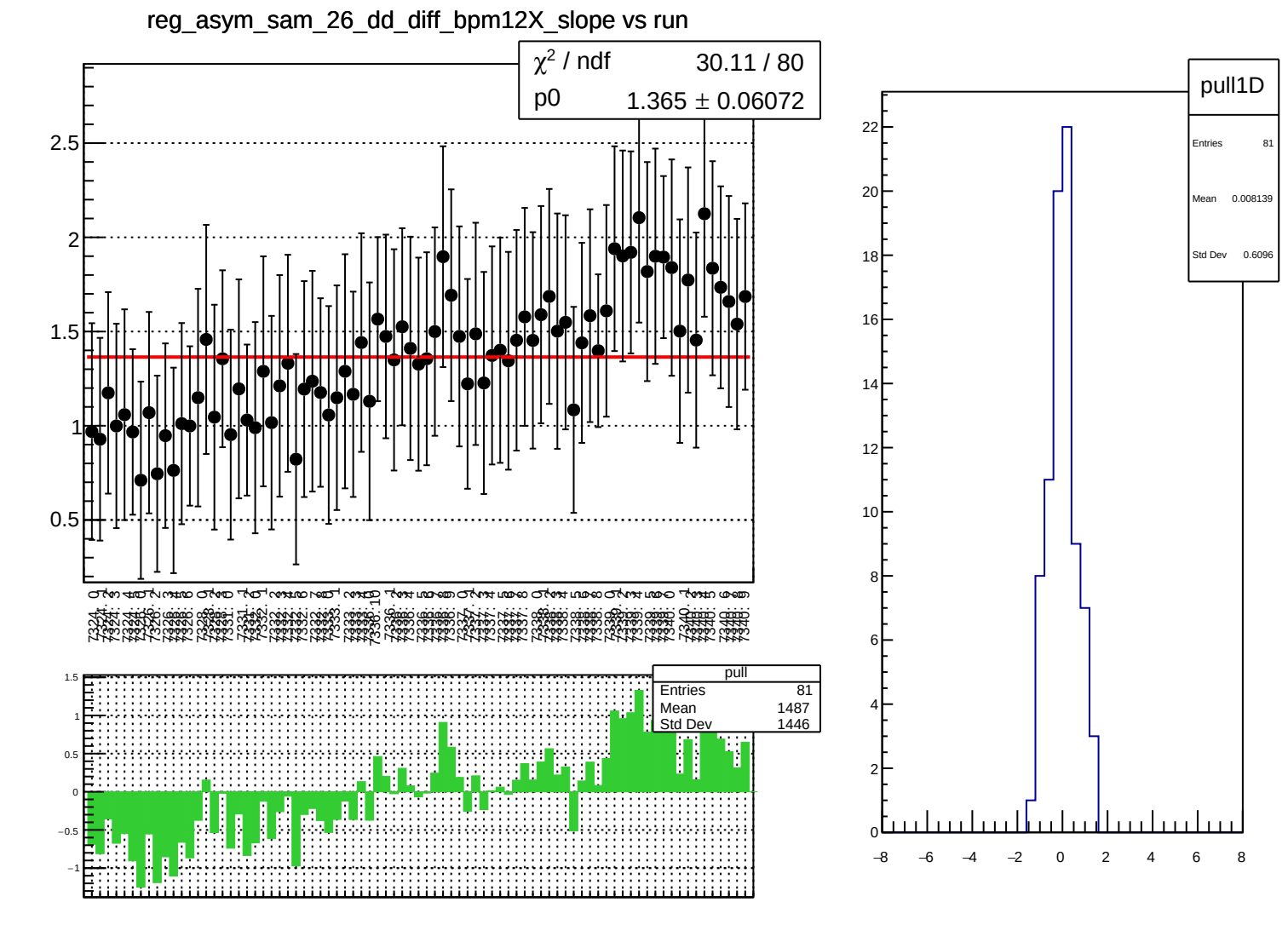

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.79 / 80
p0 −25.83 ± 1.166
pull
Entries 81
Mean 297.9
Std Dev 251.5
pull1D
Entries 81
Mean −0.03134
Std Dev 0.6257

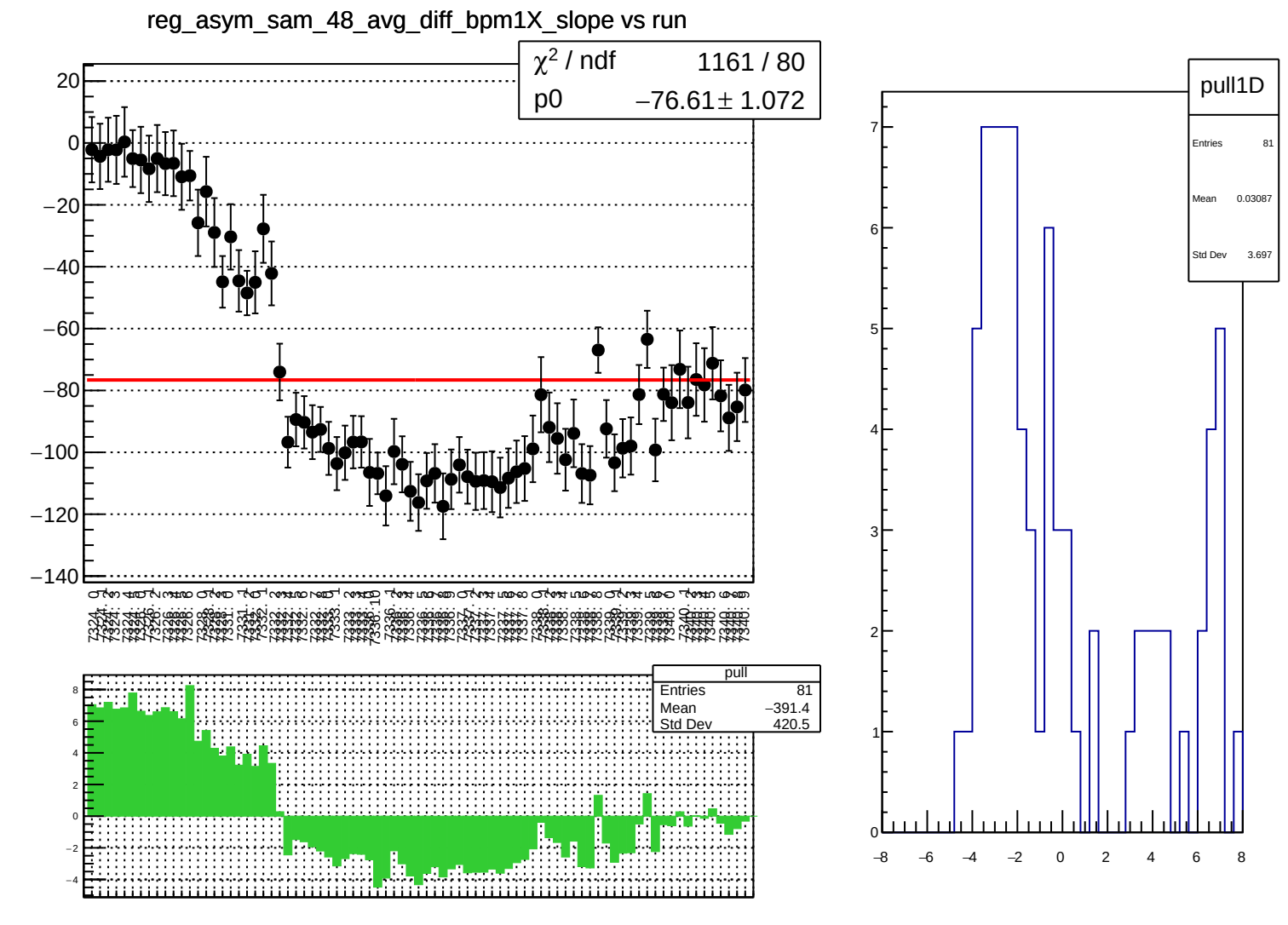

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 15.82 / 80
p0 −88.66 ± 1.28
pull
Entries 81
Mean −122.1
Std Dev 156

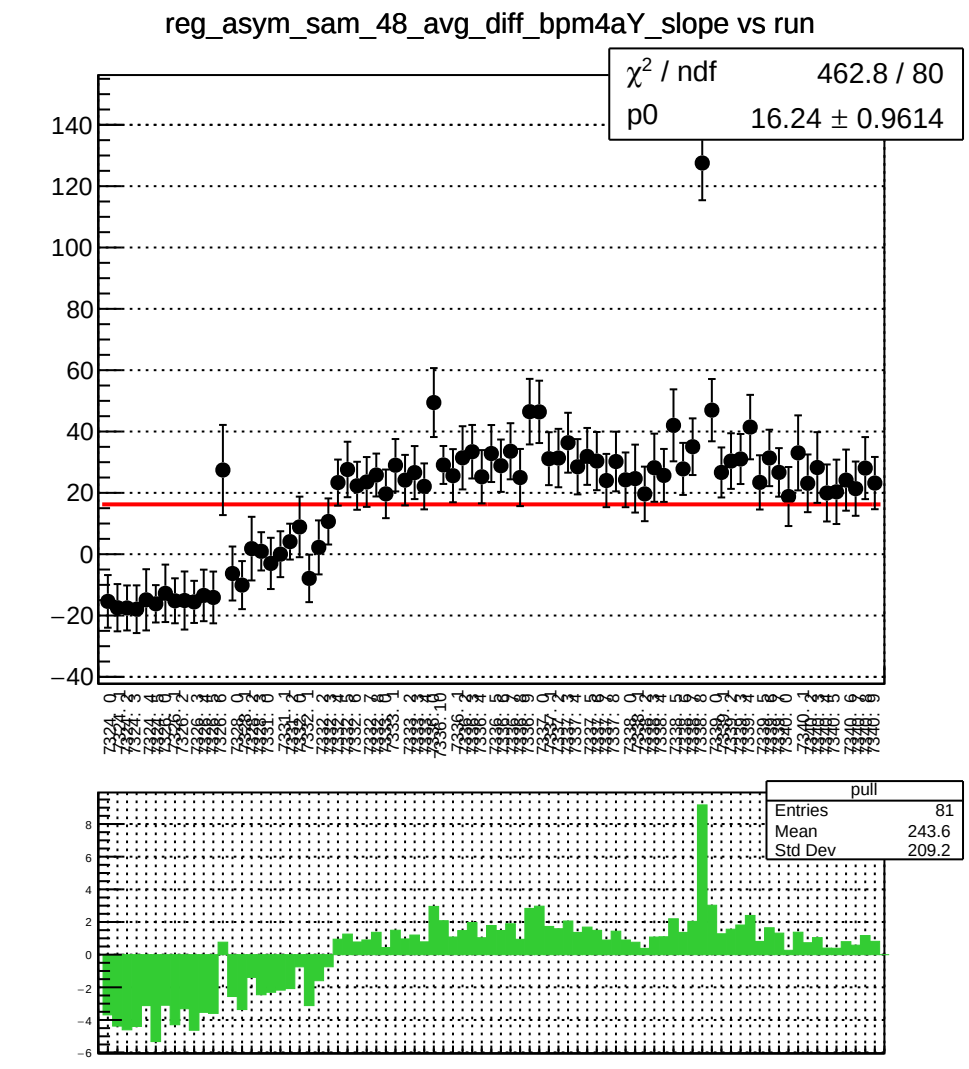

pull1D
Entries 81
Mean −0.03253
Std Dev 0.4407

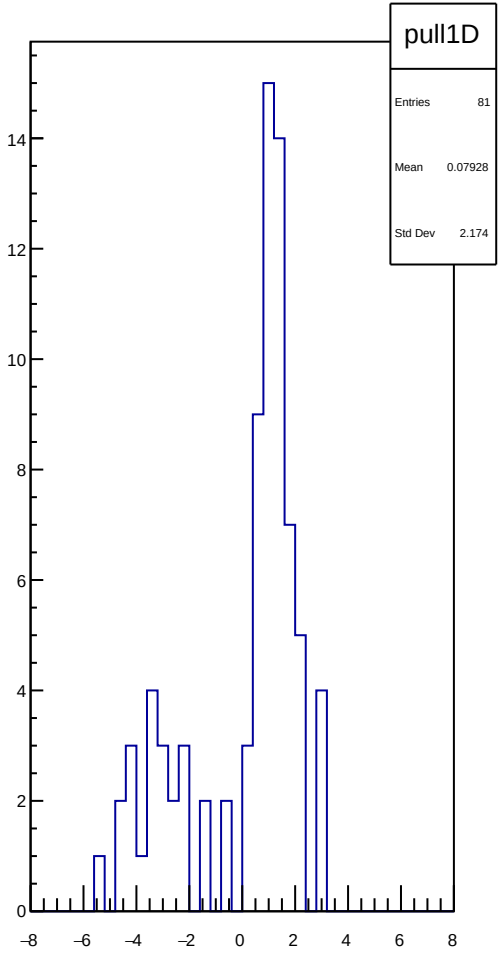

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 35.25 / 80
p0 −117.2 ± 1.23
pull
Entries 81
Mean 459.9
Std Dev 414

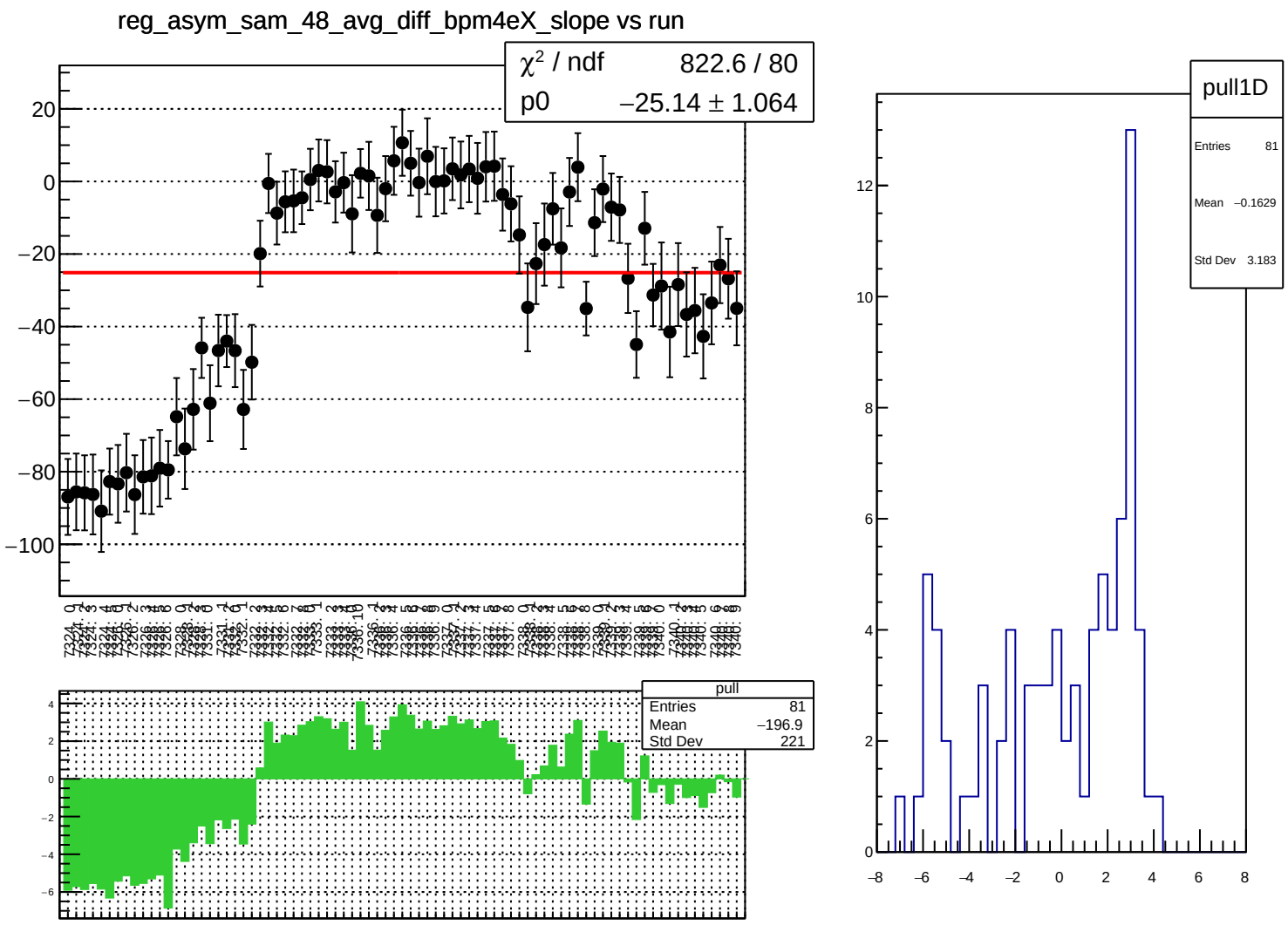

pull1D
Entries 81
Mean 0.02244
Std Dev 0.6593


reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 30.11 / 80
p0 1.365 ± 0.06072
pull
Entries 81
Mean 1487
Std Dev 1446
pull1D
Entries 81
Mean 0.008139
Std Dev 0.6096

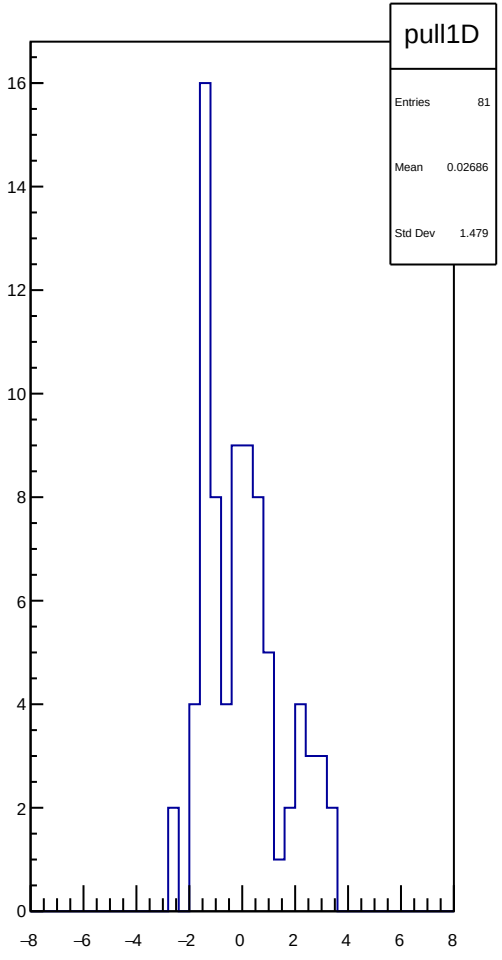

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 1161 / 80
p0 −76.61± 1.072
pull
Entries 81
Mean −391.4
Std Dev 420.5
pull1D
Entries 81
Mean 0.03087
Std Dev 3.697

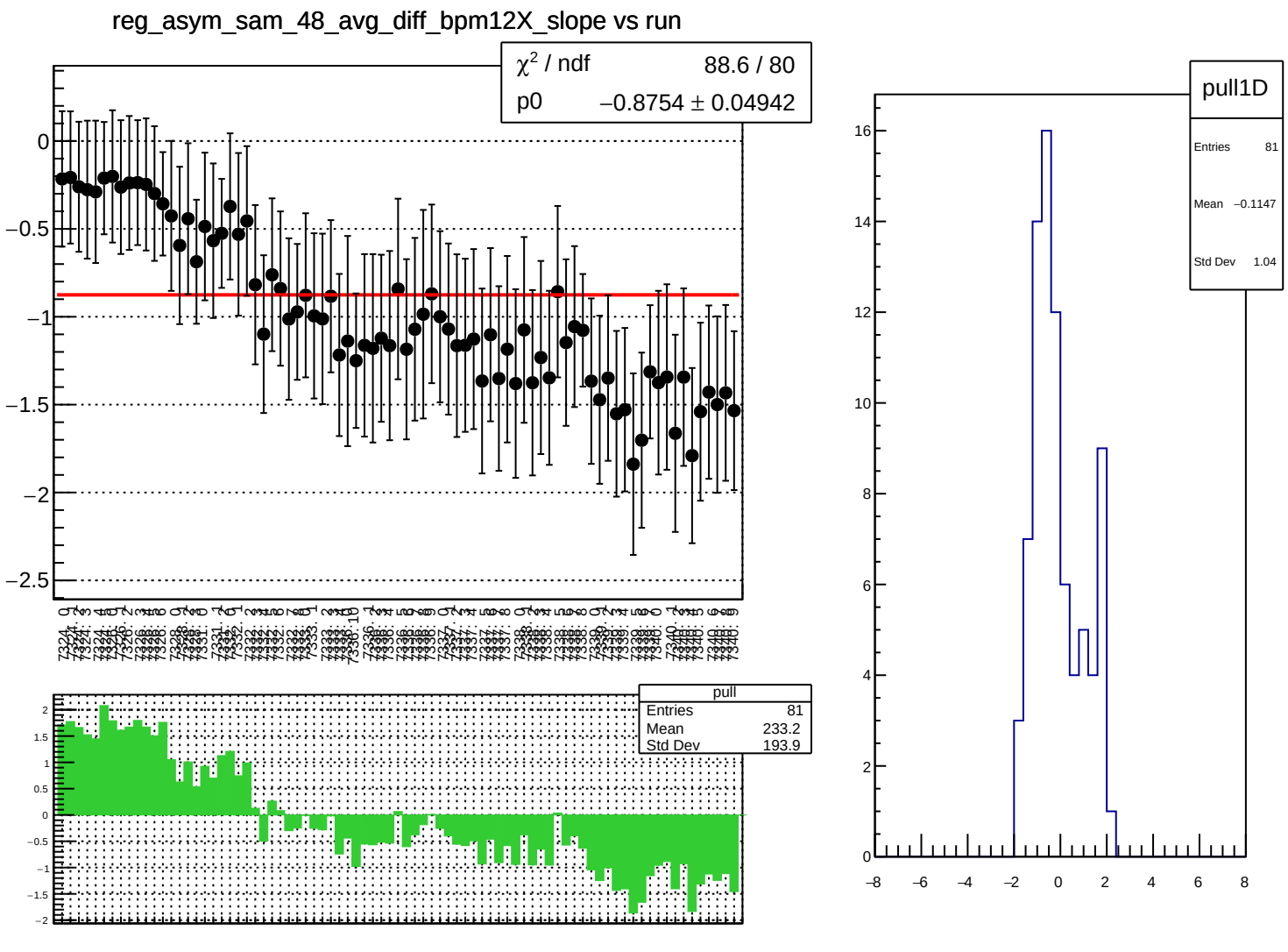

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 462.8 / 80
p0 16.24 ± 0.9614
pull
Entries 81
Mean 243.6
Std Dev 209.2

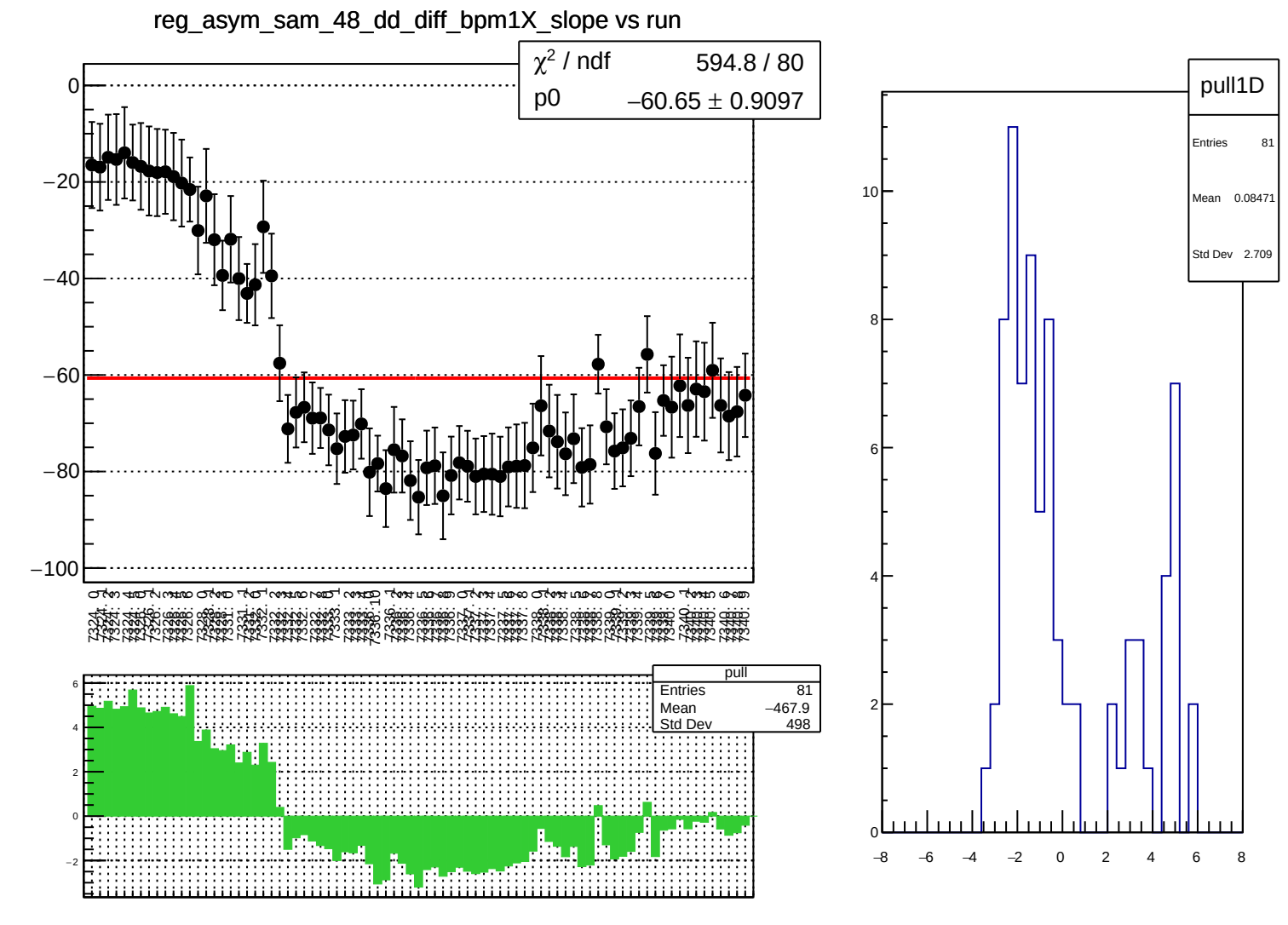

pull1D
Entries 81
Mean 0.07928
Std Dev 2.174

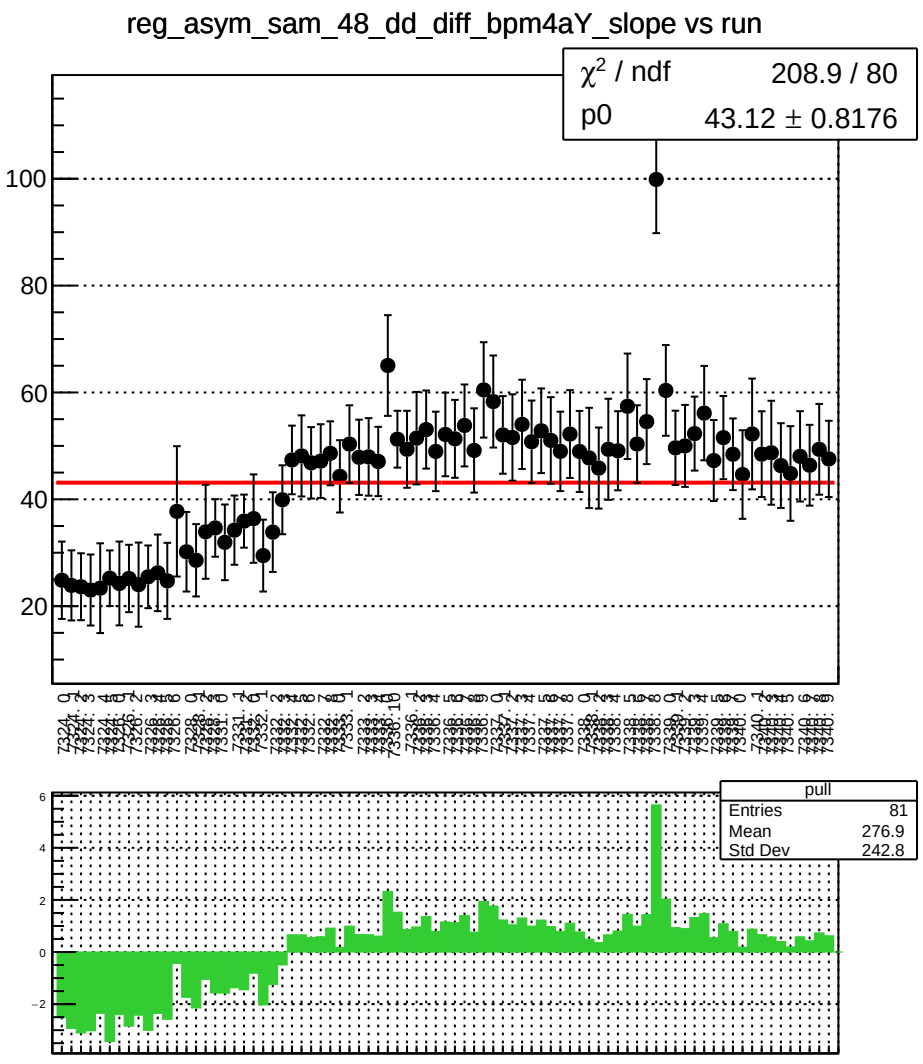

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 822.6 / 80
p0 −25.14 ± 1.064
pull
Entries 81
Mean −196.9
Std Dev 221
pull1D
Entries 81
Mean −0.1629
Std Dev 3.183

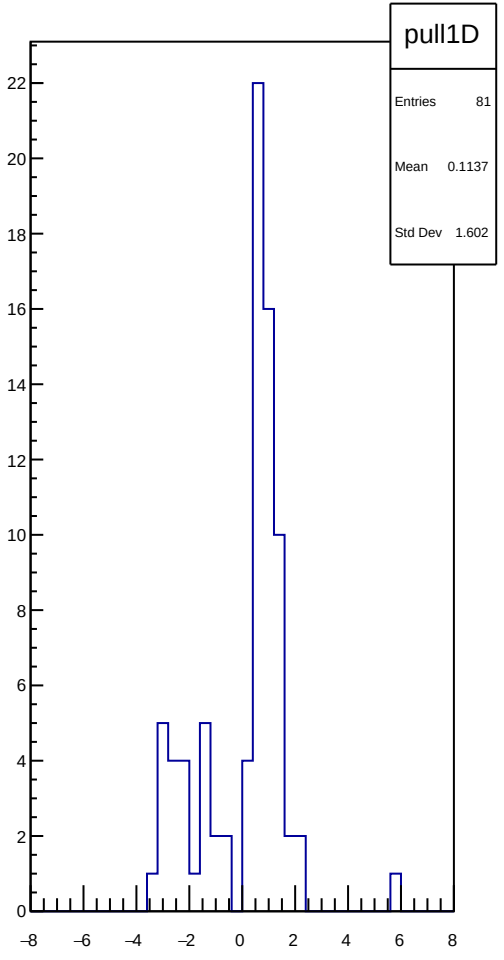

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 249.9 / 80
p0 96.52 ± 1.012
pull
Entries 81
Mean 276.7
Std Dev 247.4

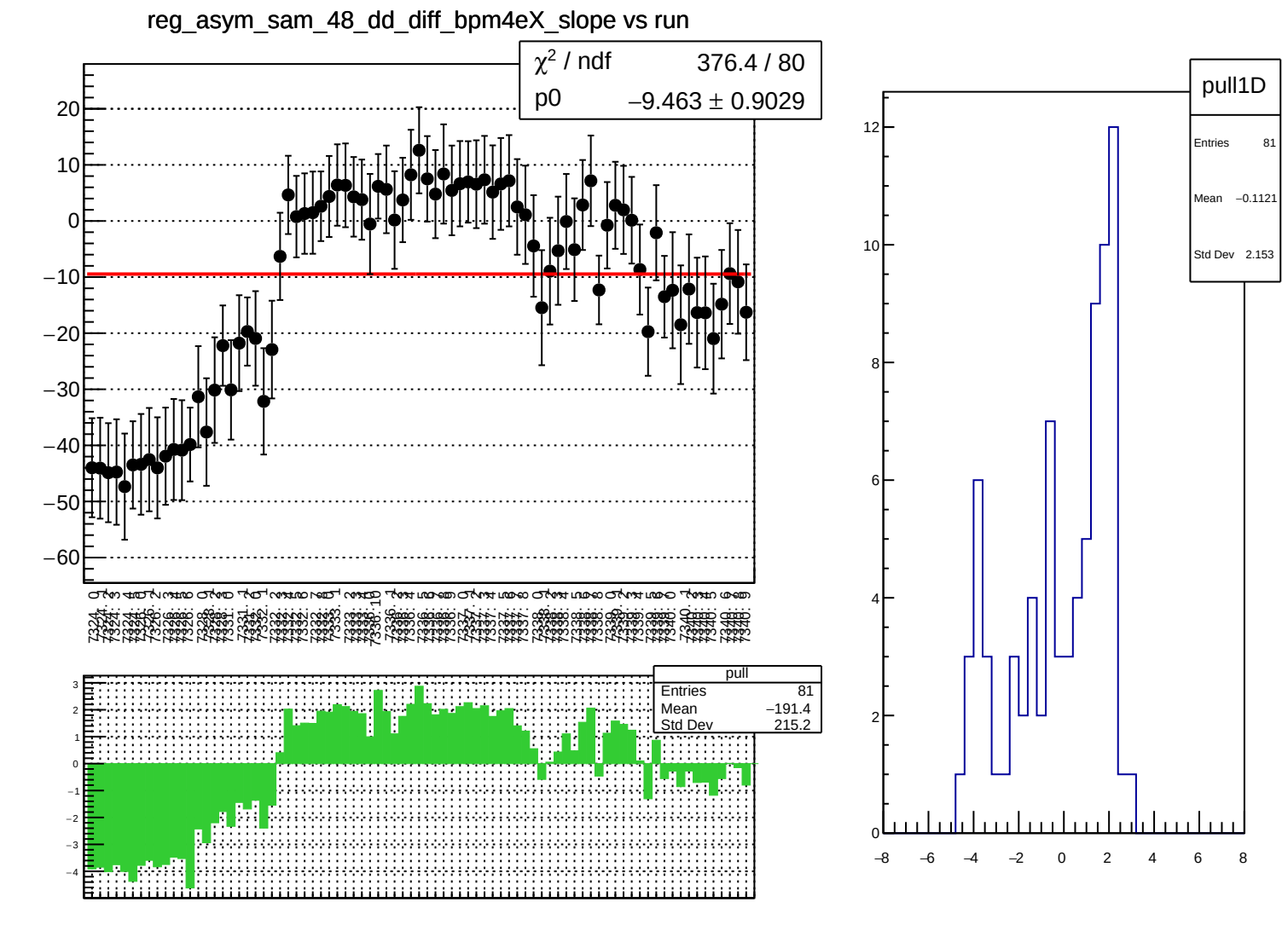

pull1D
Entries 81
Mean 0.02686
Std Dev 1.479

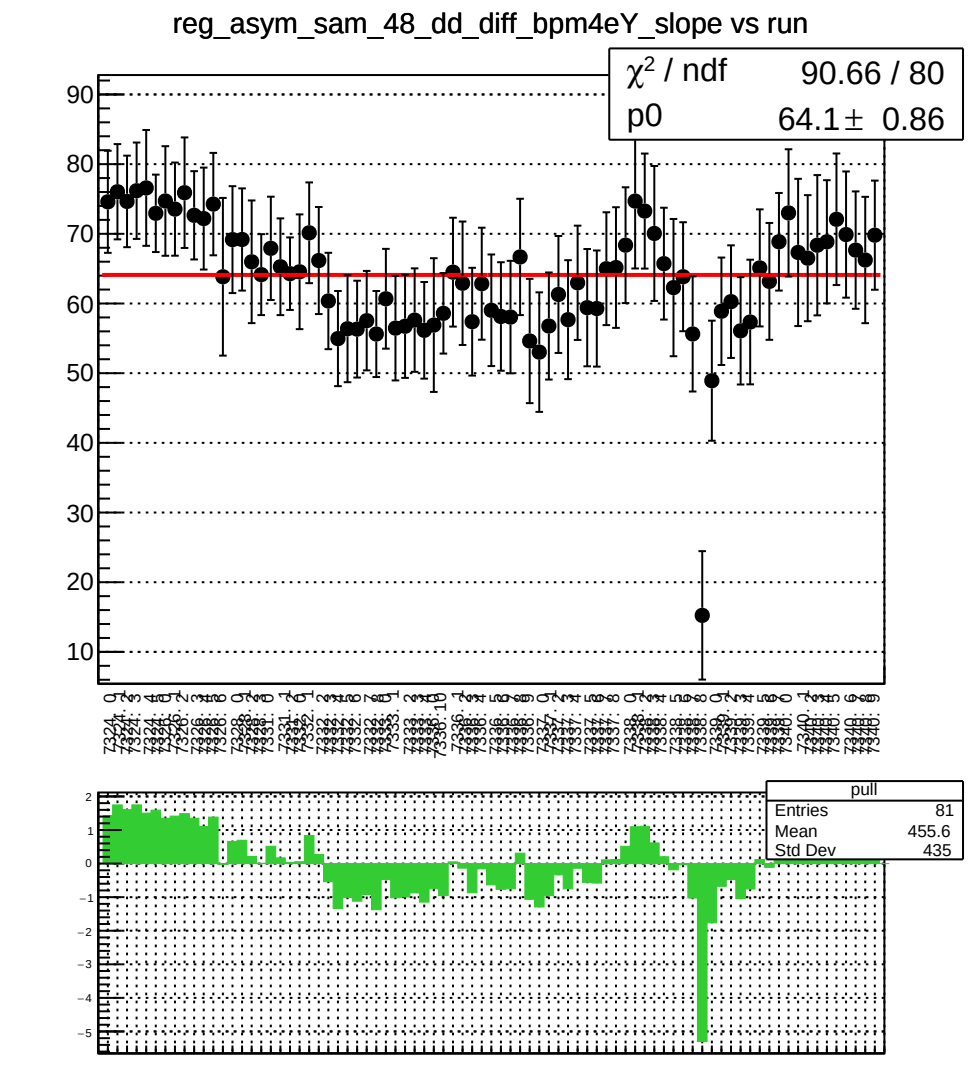

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 88.6 / 80
p0 −0.8754 ± 0.04942
pull
Entries 81
Mean 233.2
Std Dev 193.9
pull1D
Entries 81
Mean −0.1147
Std Dev 1.04

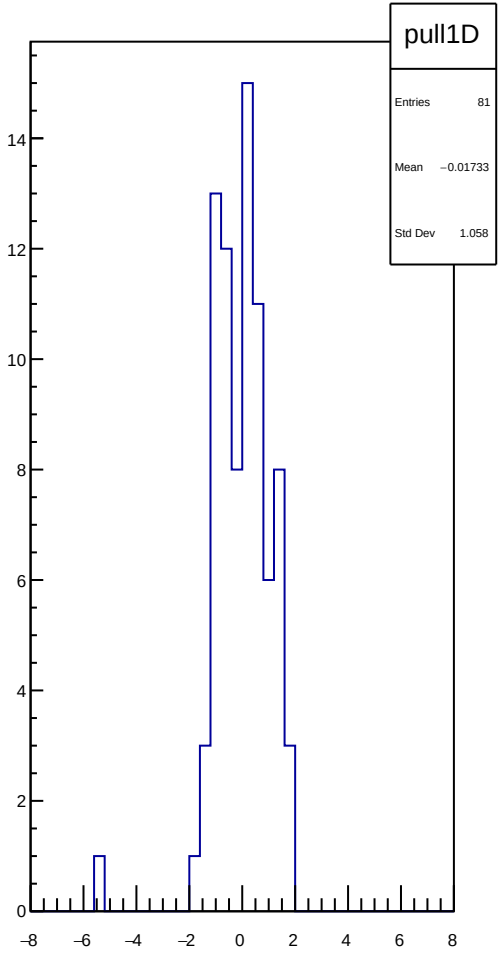

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 594.8 / 80
p0 −60.65 ± 0.9097
pull
Entries 81
Mean −467.9
Std Dev 498
pull1D
Entries 81
Mean 0.08471
Std Dev 2.709

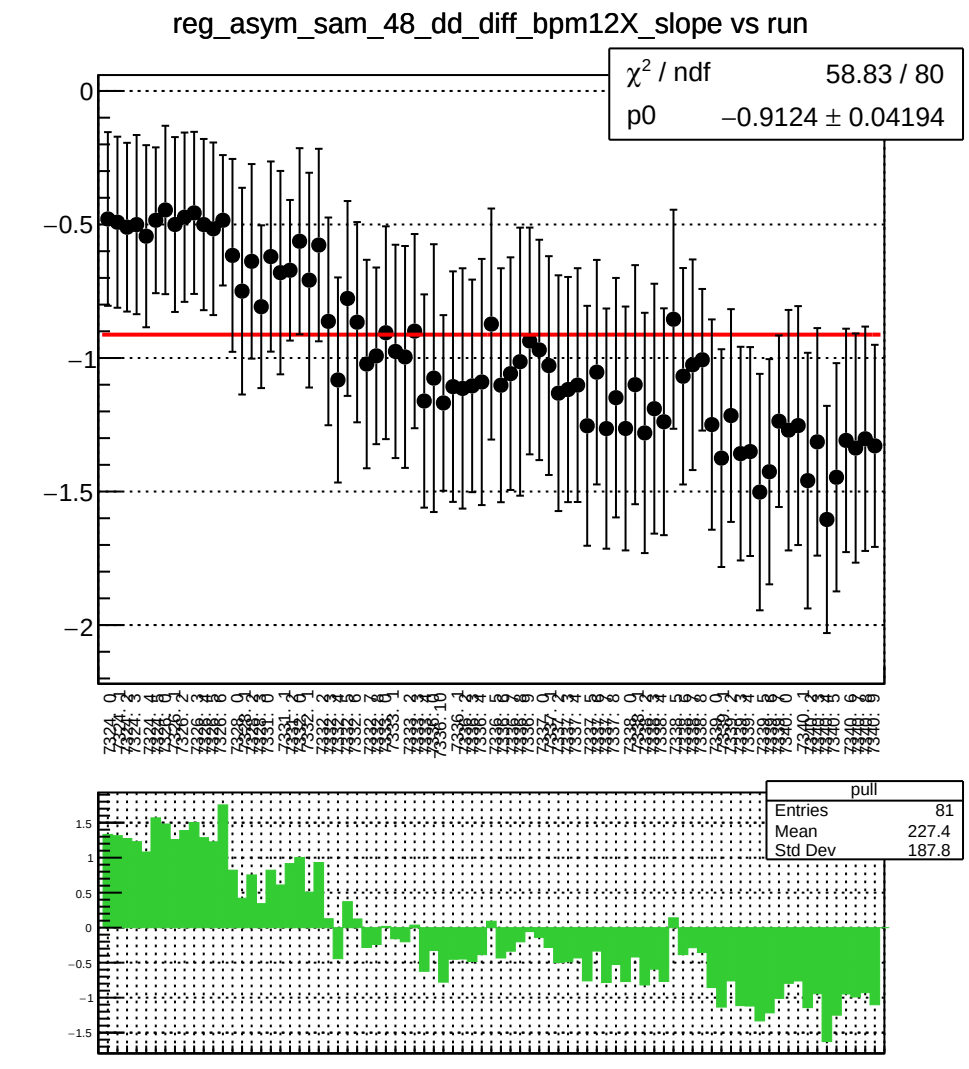

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 208.9 / 80
p0 43.12 ± 0.8176
pull
Entries 81
Mean 276.9
Std Dev 242.8

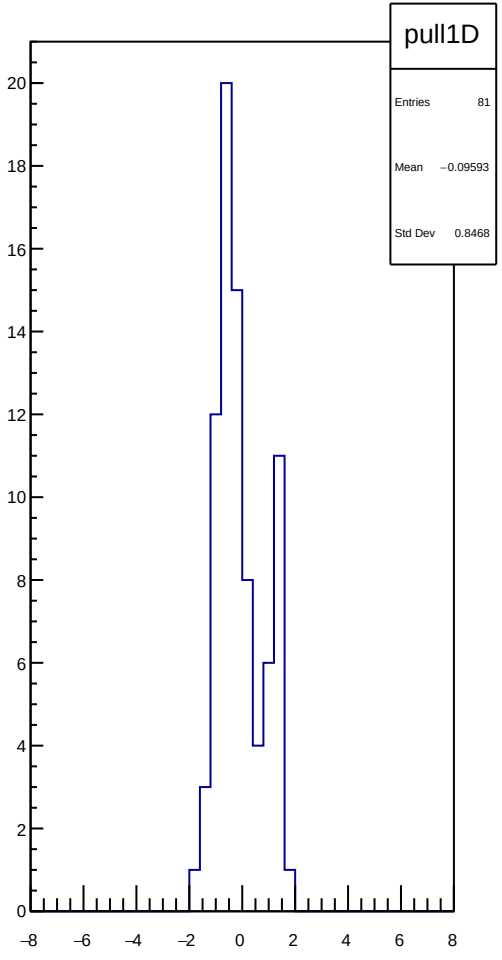

pull1D
Entries 81
Mean 0.1137
Std Dev 1.602

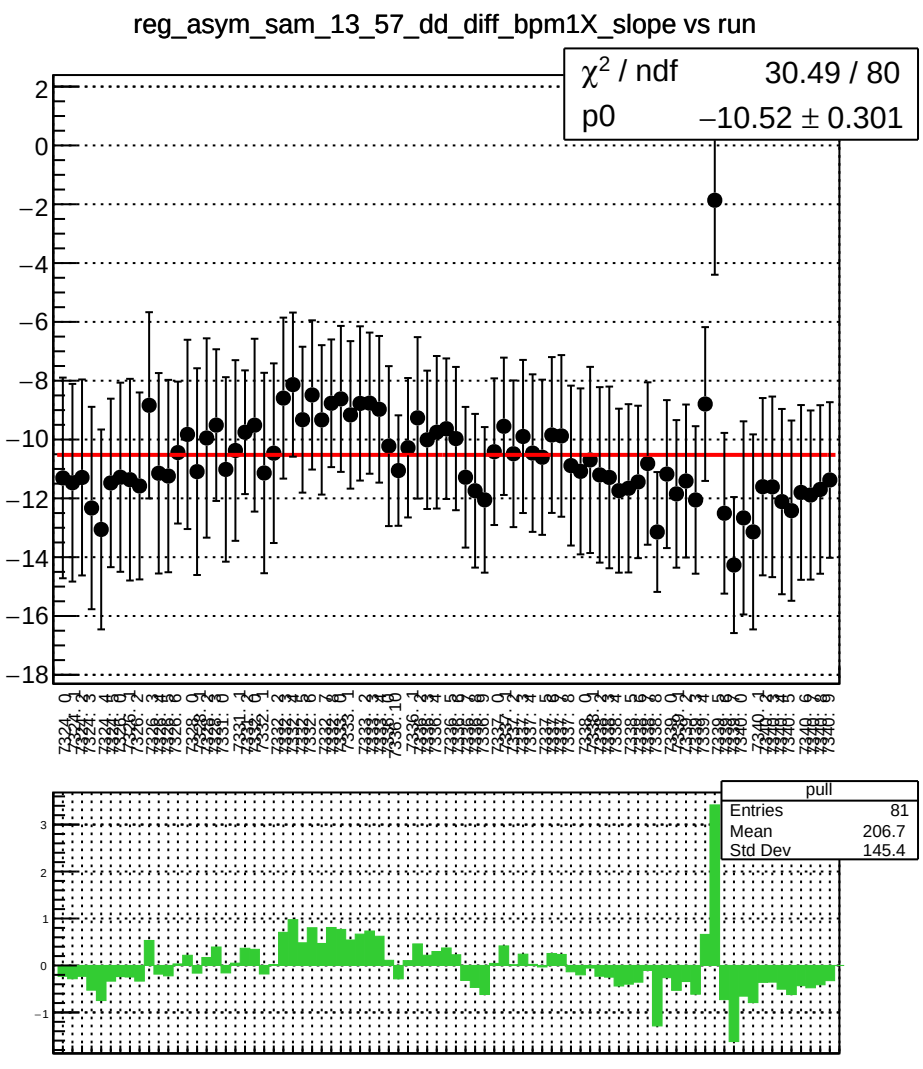

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 376.4 / 80
p0 −9.463 ± 0.9029
pull
Entries 81
Mean −191.4
Std Dev 215.2
pull1D
Entries 81
Mean −0.1121
Std Dev 2.153

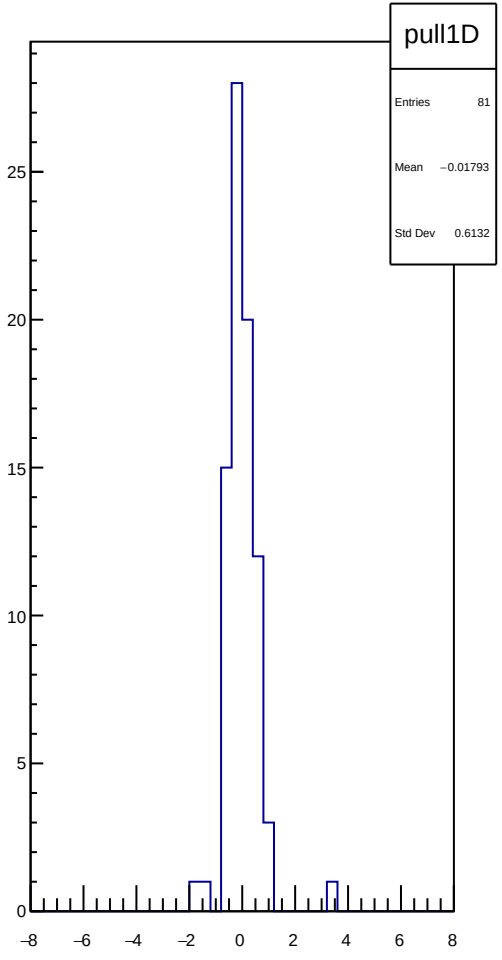

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 90.66 / 80
p0 64.1 ± 0.86
pull
Entries 81
Mean 455.6
Std Dev 435

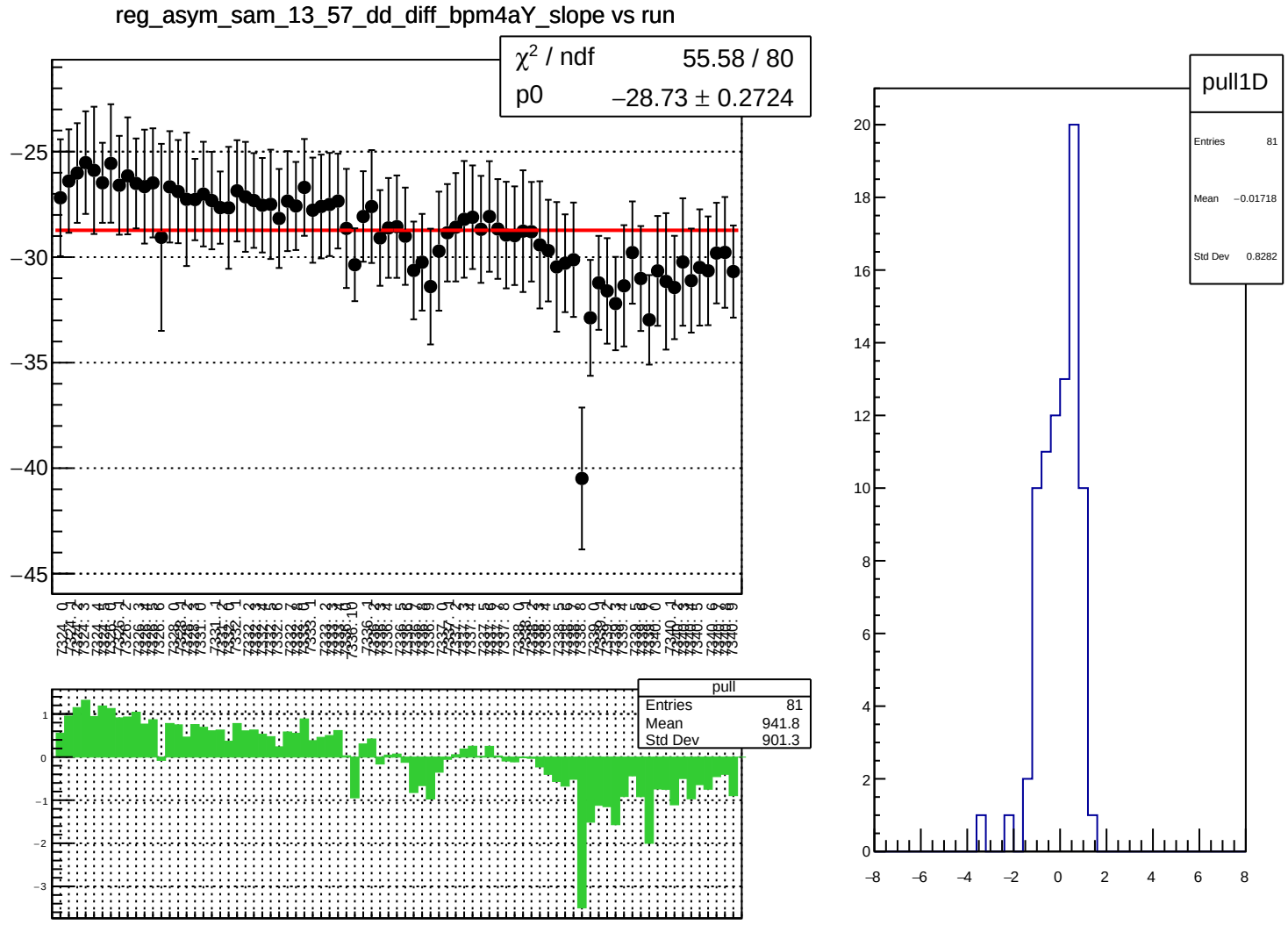

pull1D
Entries 81
Mean −0.01733
Std Dev 1.058

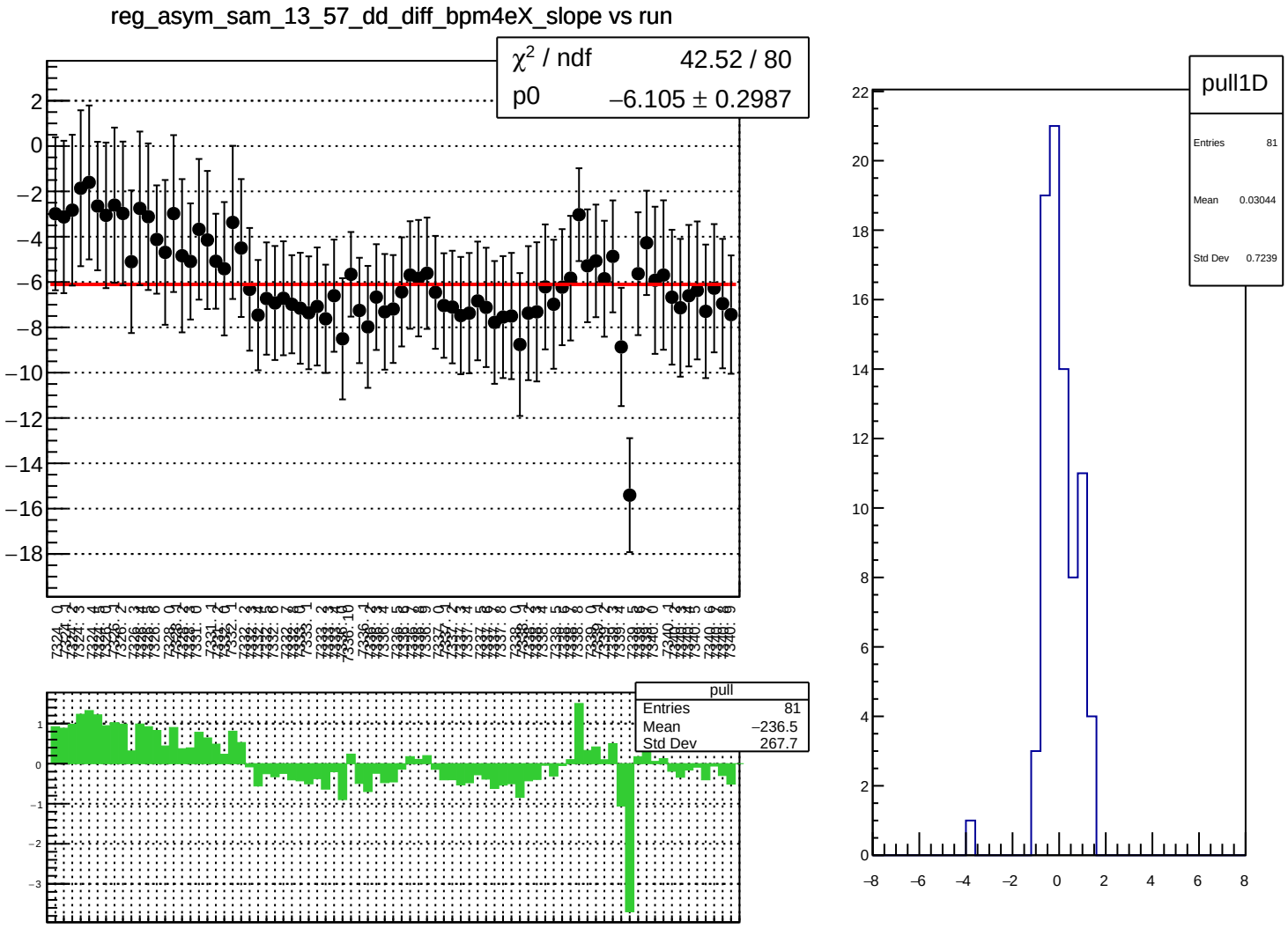

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 58.83 / 80
p0 −0.9124 ± 0.04194
pull
Entries 81
Mean 227.4
Std Dev 187.8

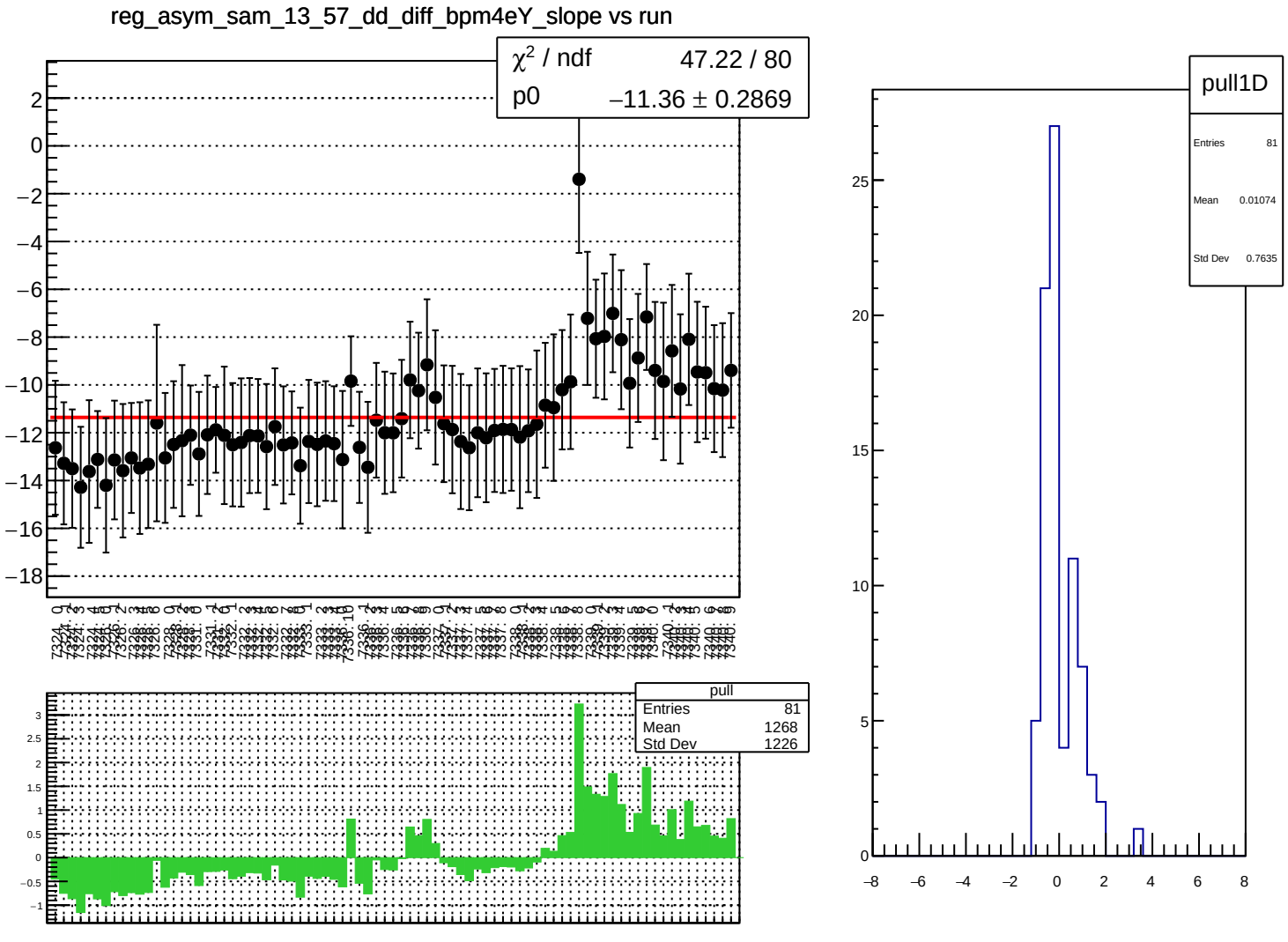

pull1D
Entries 81
Mean −0.09593
Std Dev 0.8468

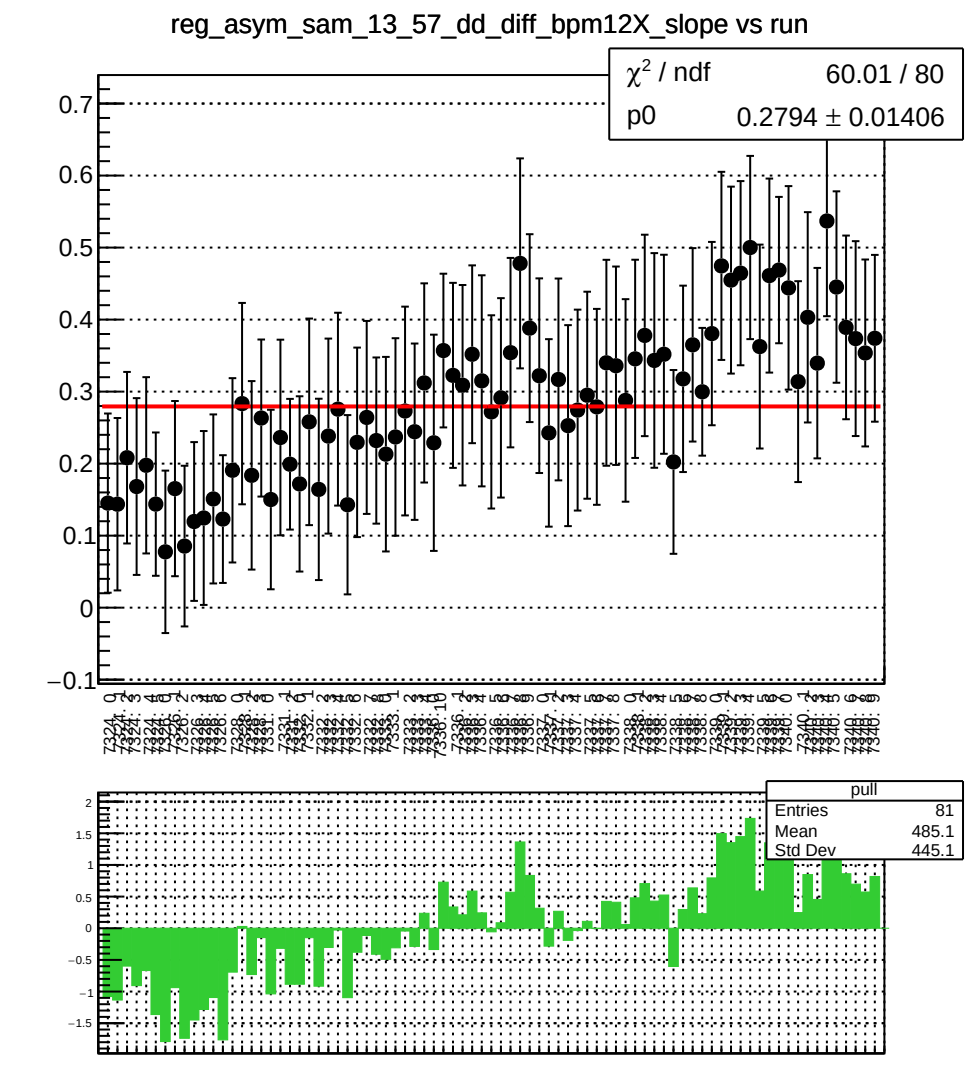

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 30.49 / 80
p0 −10.52 ± 0.301
pull
Entries 81
Mean 206.7
Std Dev 145.4

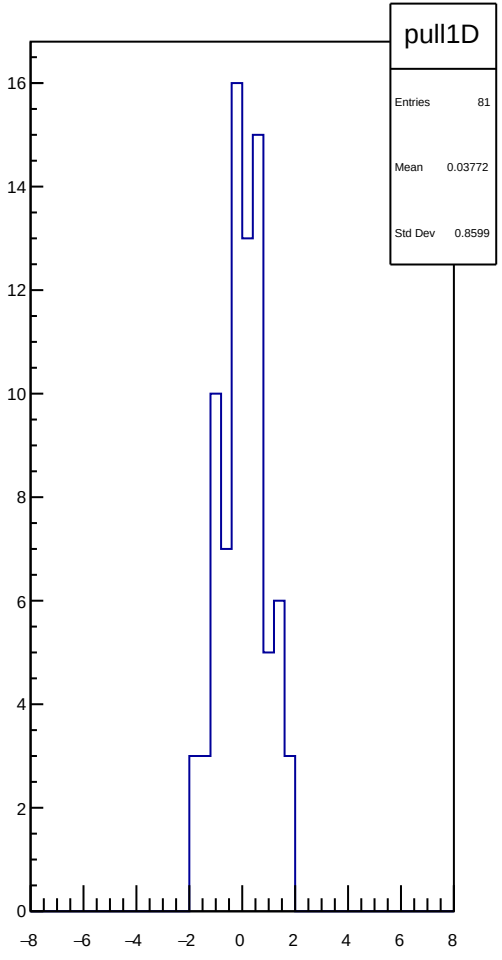

pull1D
Entries 81
Mean −0.01793
Std Dev 0.6132

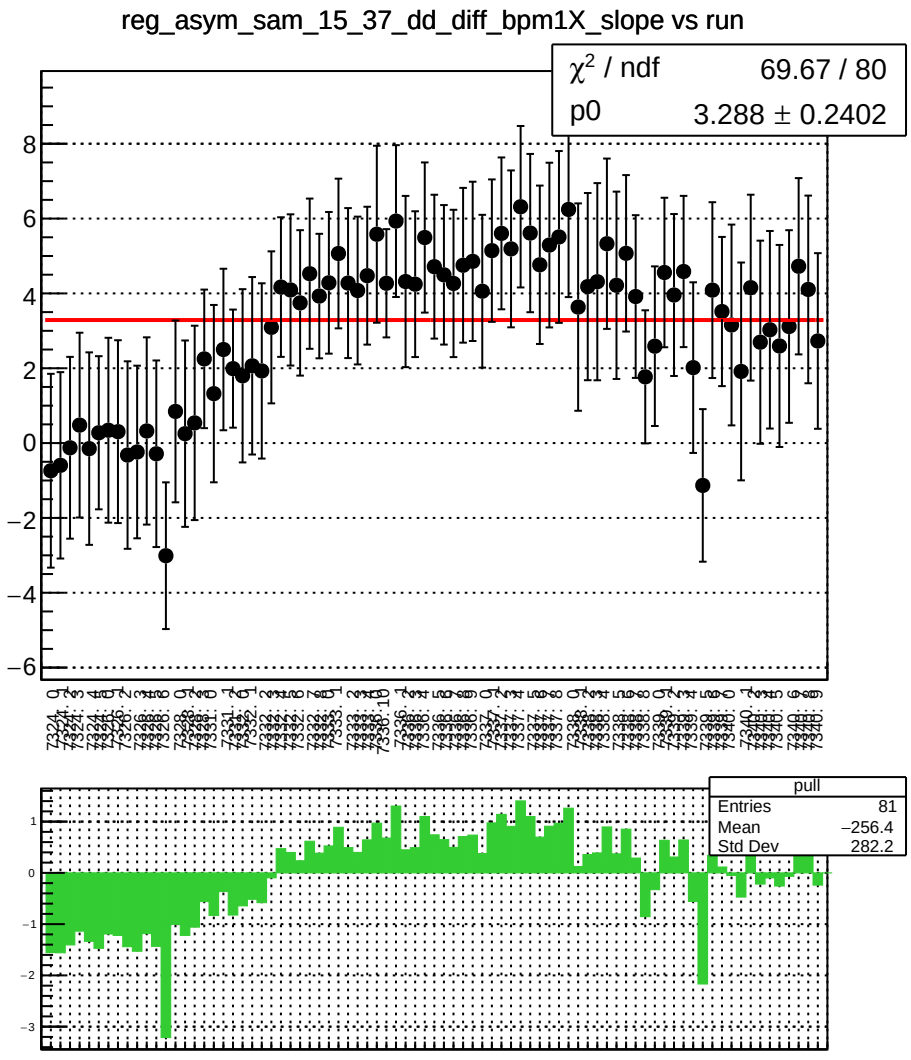

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 55.58 / 80
p0 −28.73 ± 0.2724
pull
Entries 81
Mean 941.8
Std Dev 901.3
pull1D
Entries 81
Mean −0.01718
Std Dev 0.8282

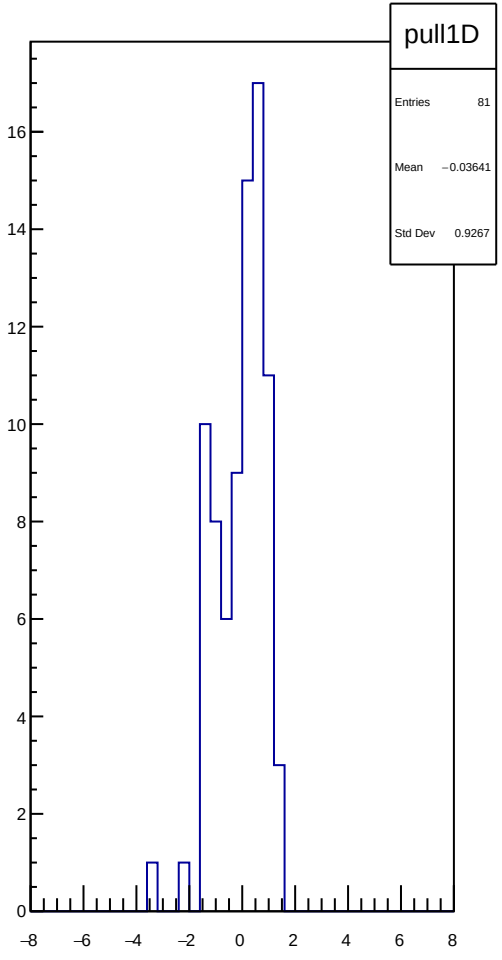

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 42.52 / 80
p0 −6.105 ± 0.2987
pull
Entries 81
Mean −236.5
Std Dev 267.7
pull1D
Entries 81
Mean 0.03044
Std Dev 0.7239

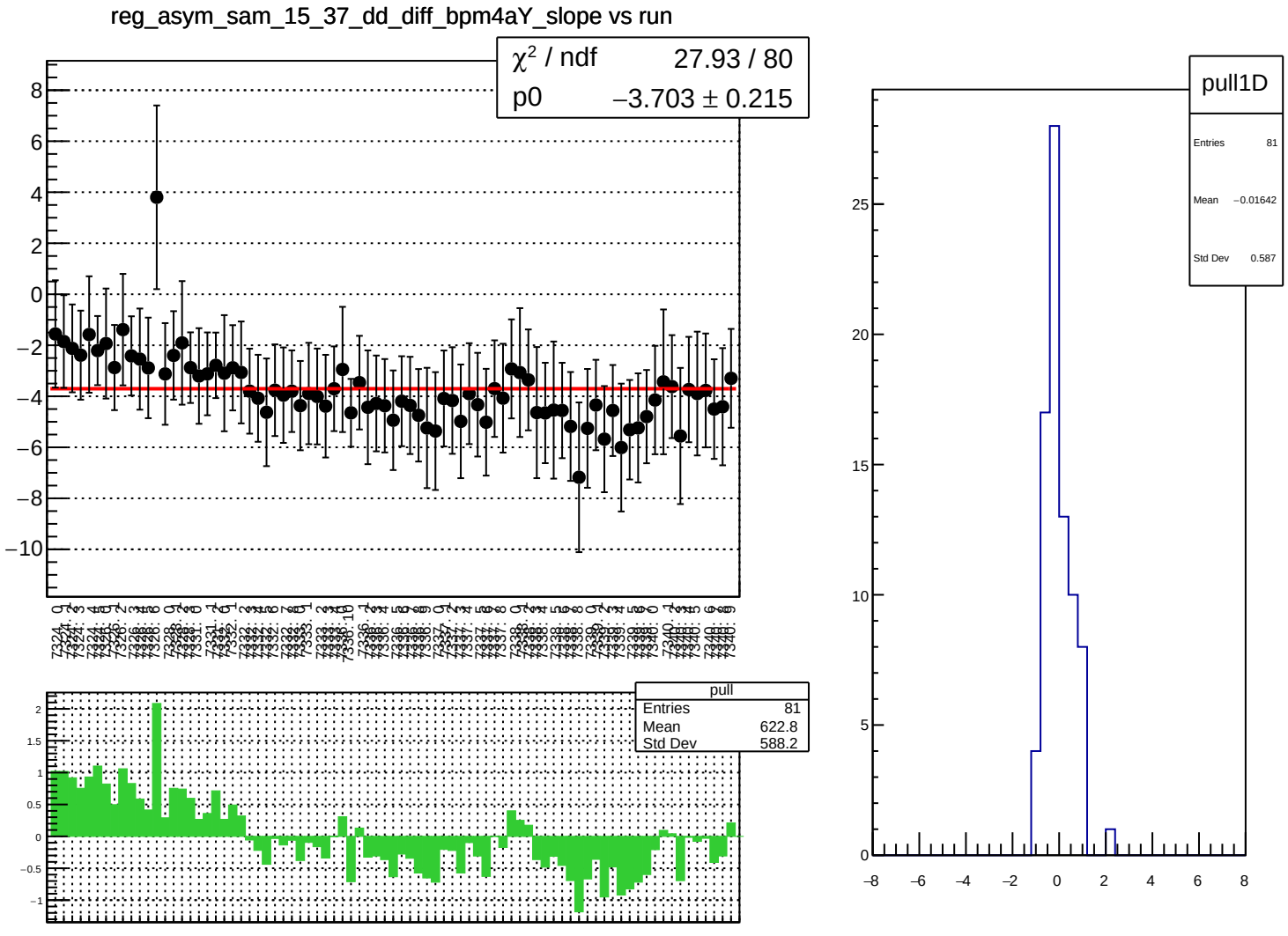

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.22 / 80
p0 −11.36 ± 0.2869
pull
Entries 81
Mean 1268
Std Dev 1226
pull1D
Entries 81
Mean 0.01074
Std Dev 0.7635

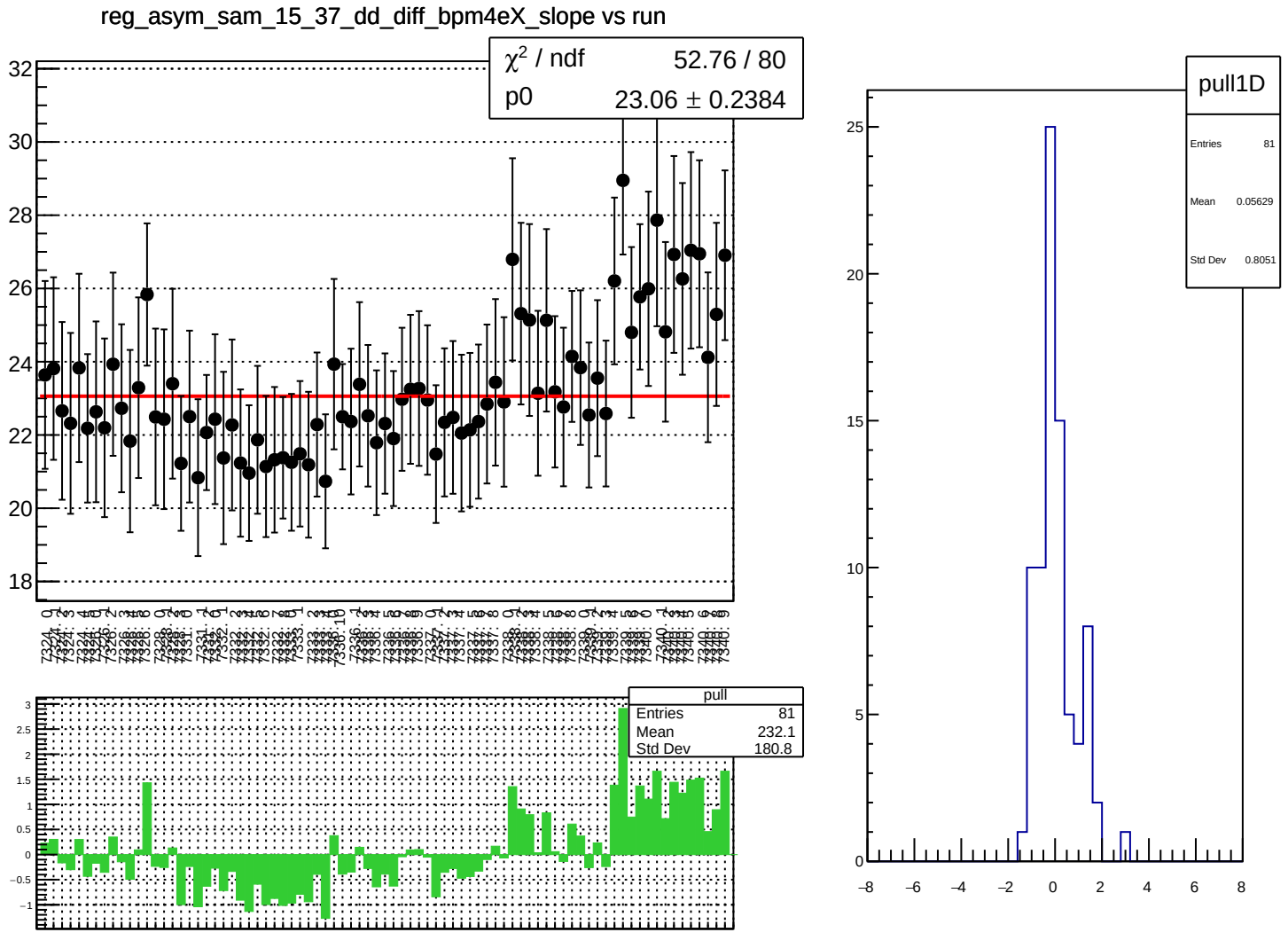

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 60.01 / 80
p0 0.2794 ± 0.01406
pull
Entries 81
Mean 485.1
Std Dev 445.1

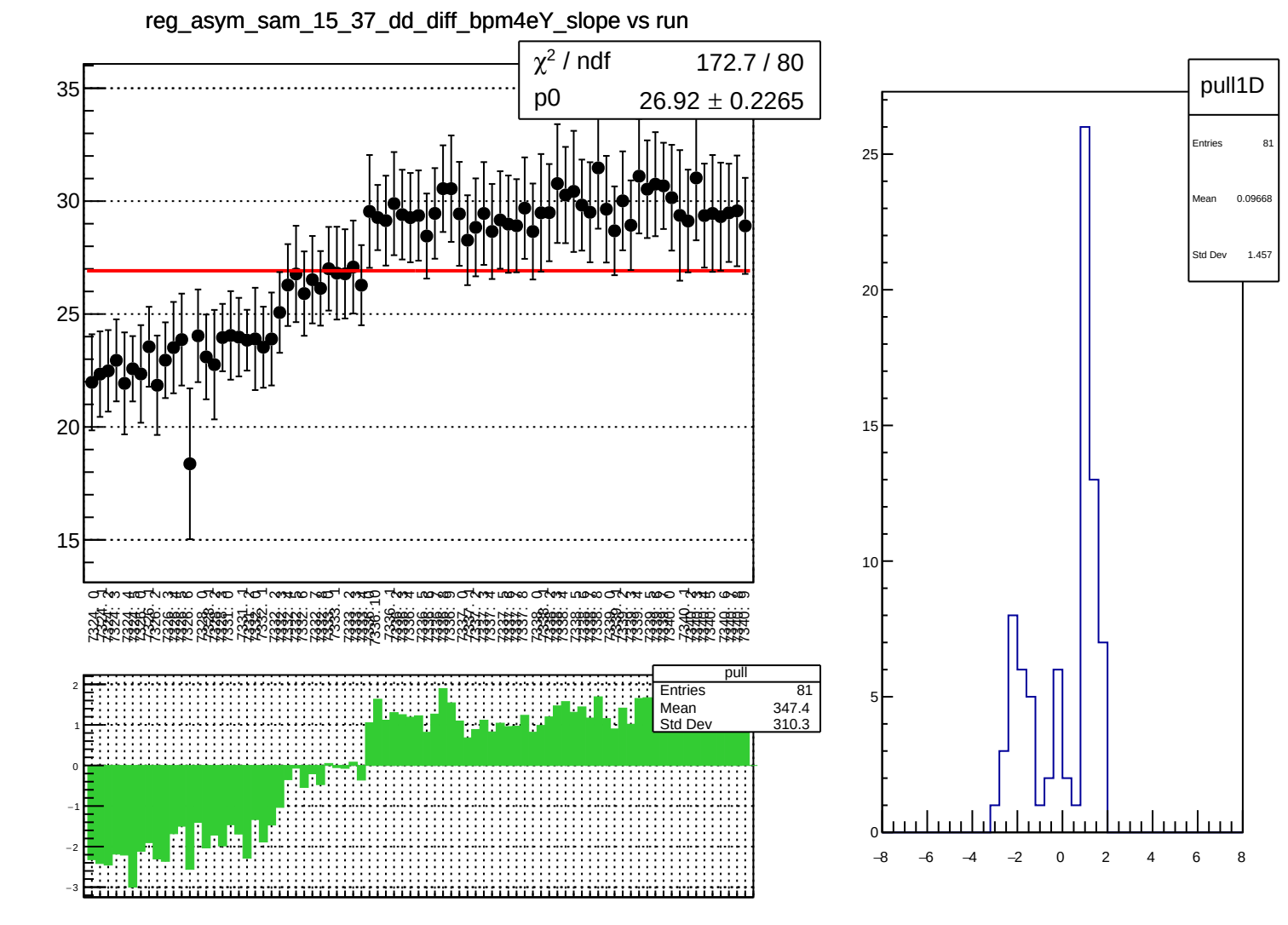

pull1D
Entries 81
Mean 0.03772
Std Dev 0.8599

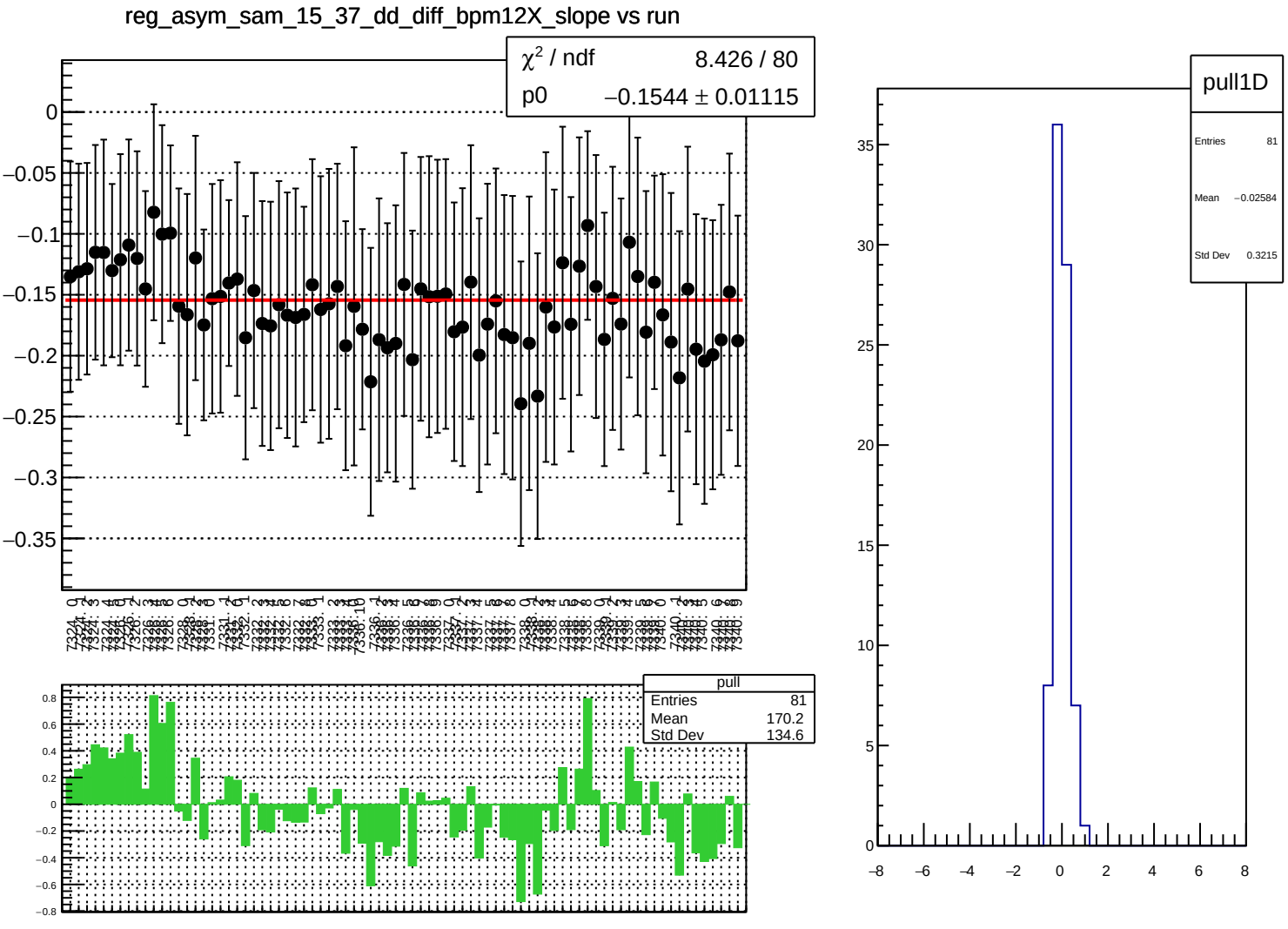

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 69.67 / 80
p0 3.288 ± 0.2402
pull
Entries 81
Mean −256.4
Std Dev 282.2

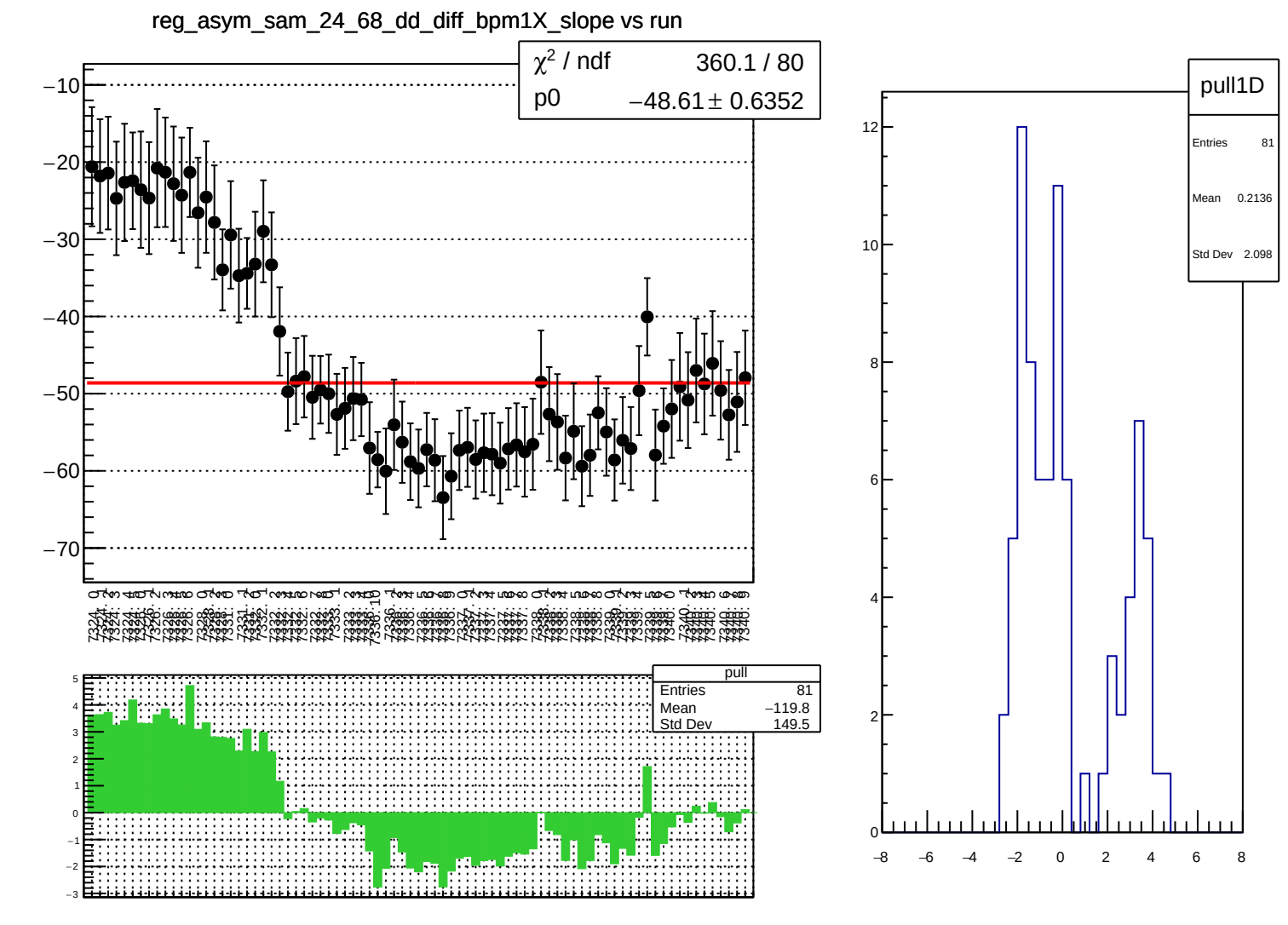

pull1D
Entries 81
Mean −0.03641
Std Dev 0.9267

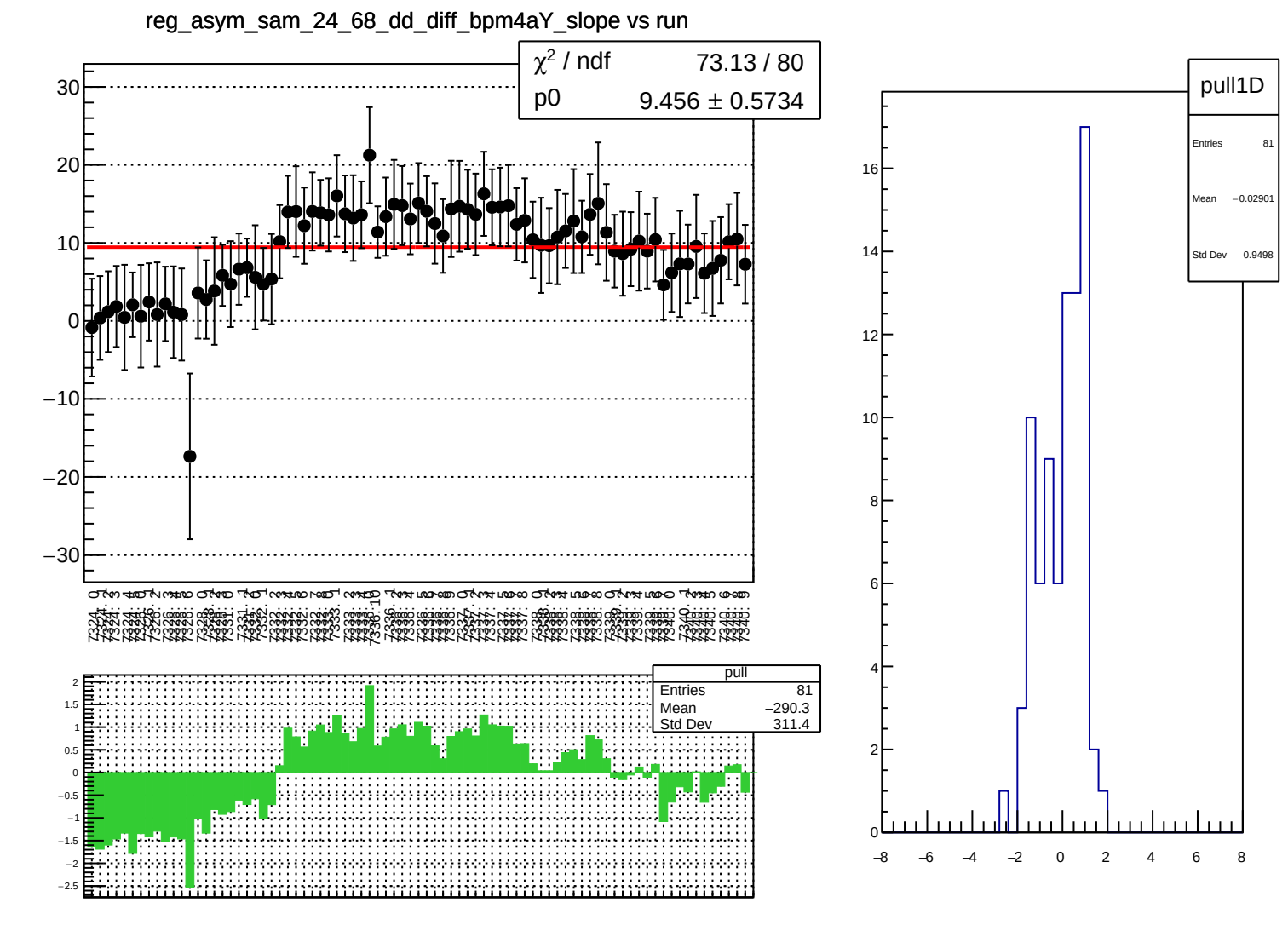

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.93 / 80
p0 −3.703 ± 0.215
pull
Entries 81
Mean 622.8
Std Dev 588.2
pull1D
Entries 81
Mean −0.01642
Std Dev 0.587

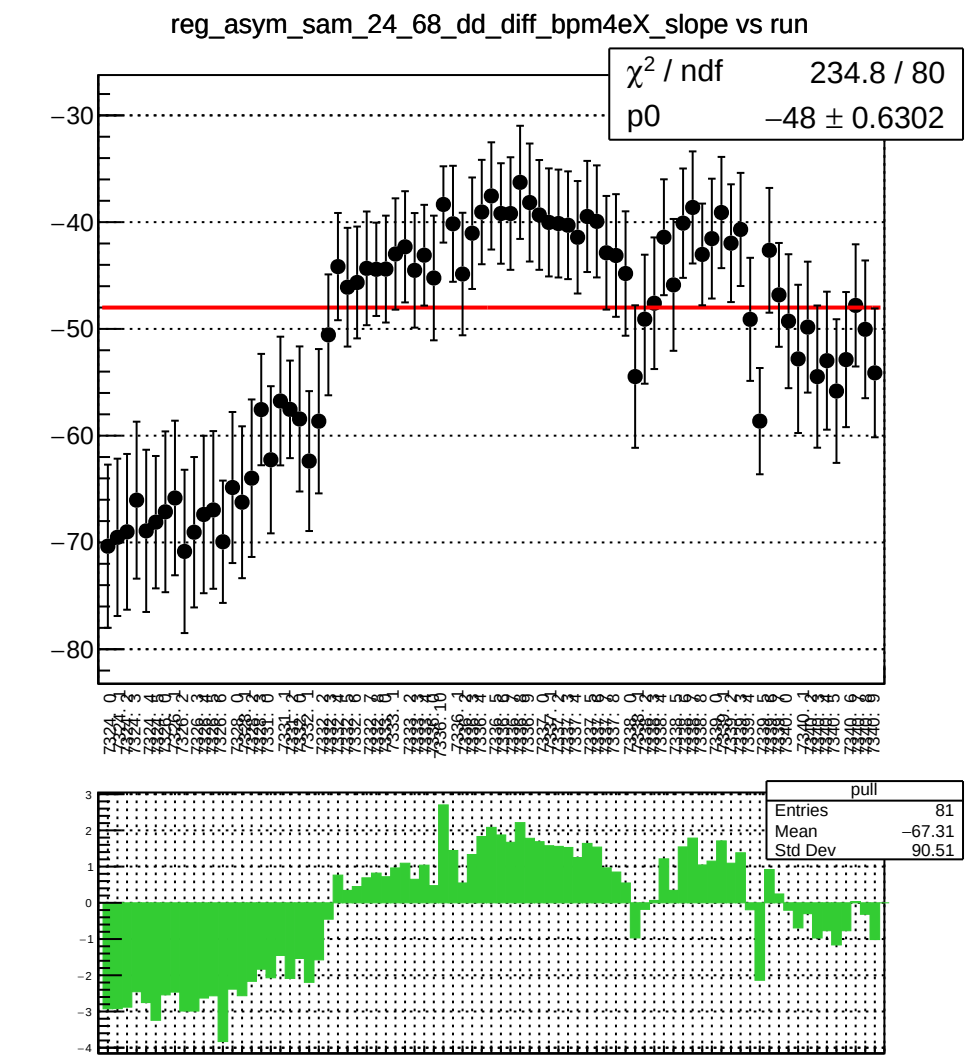

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 52.76 / 80
p0 23.06 ± 0.2384
pull
Entries 81
Mean 232.1
Std Dev 180.8
pull1D
Entries 81
Mean 0.05629
Std Dev 0.8051

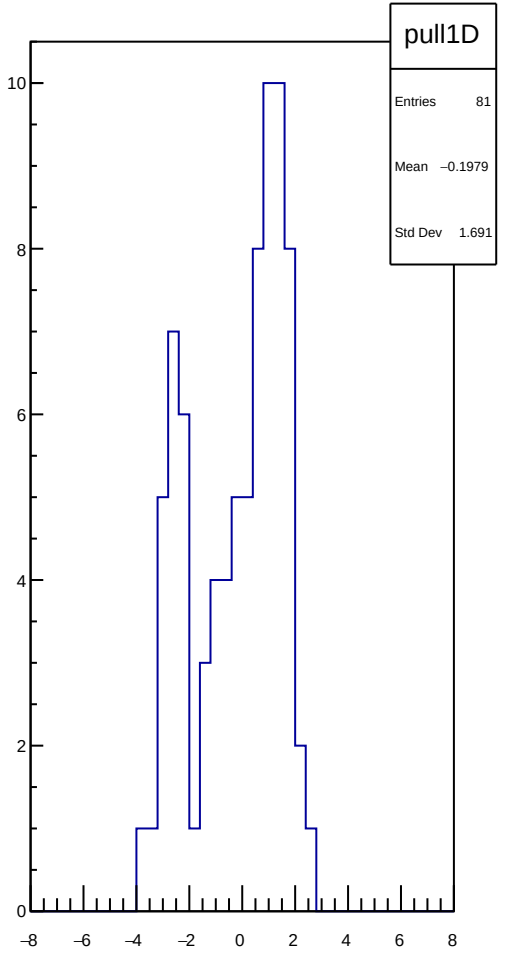

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 172.7 / 80
p0 26.92 ± 0.2265
pull
Entries 81
Mean 347.4
Std Dev 310.3
pull1D
Entries 81
Mean 0.09668
Std Dev 1.457

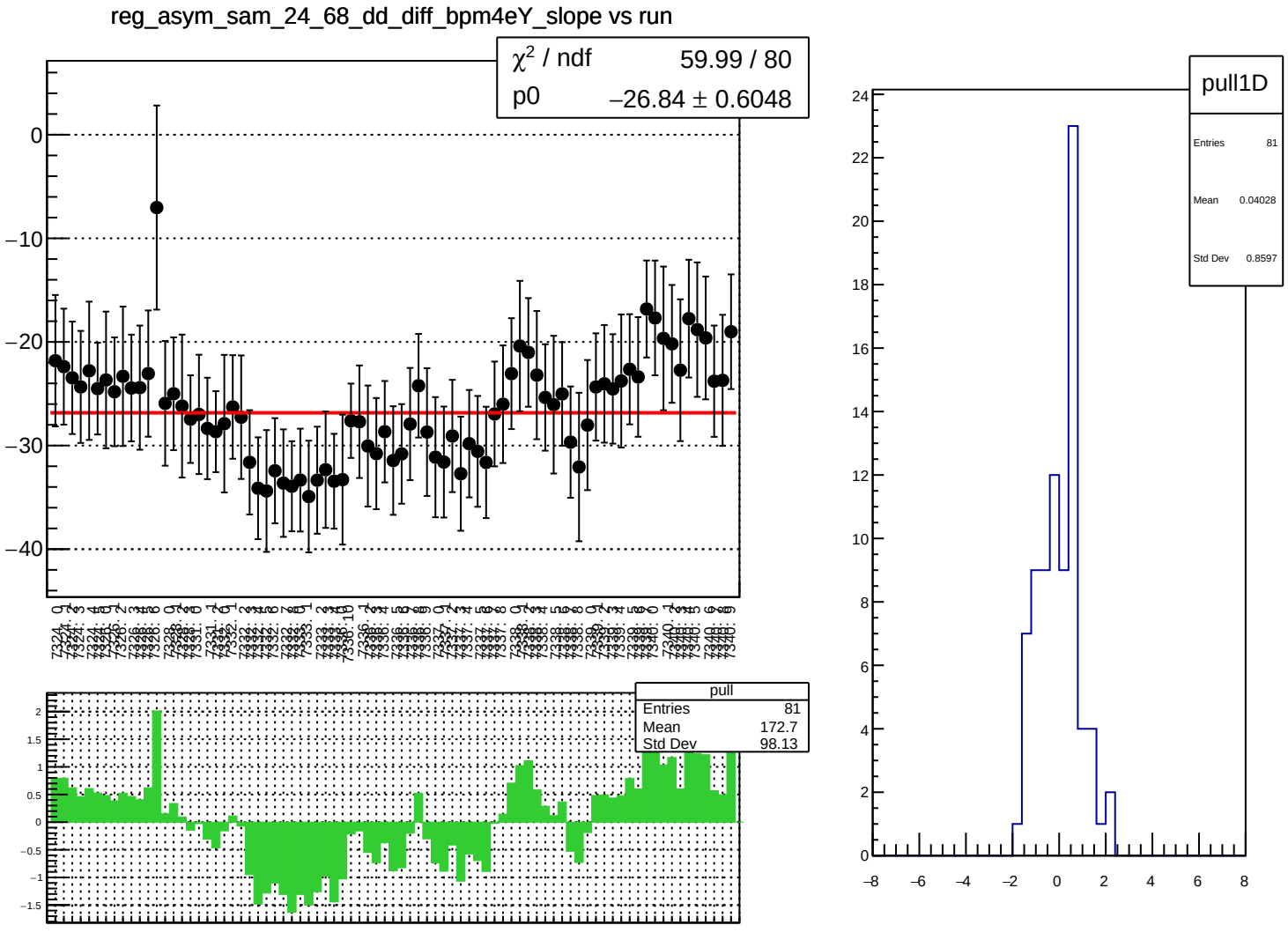

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.426 / 80
p0 −0.1544 ± 0.01115
pull
Entries 81
Mean 170.2
Std Dev 134.6
pull1D
Entries 81
Mean −0.02584
Std Dev 0.3215

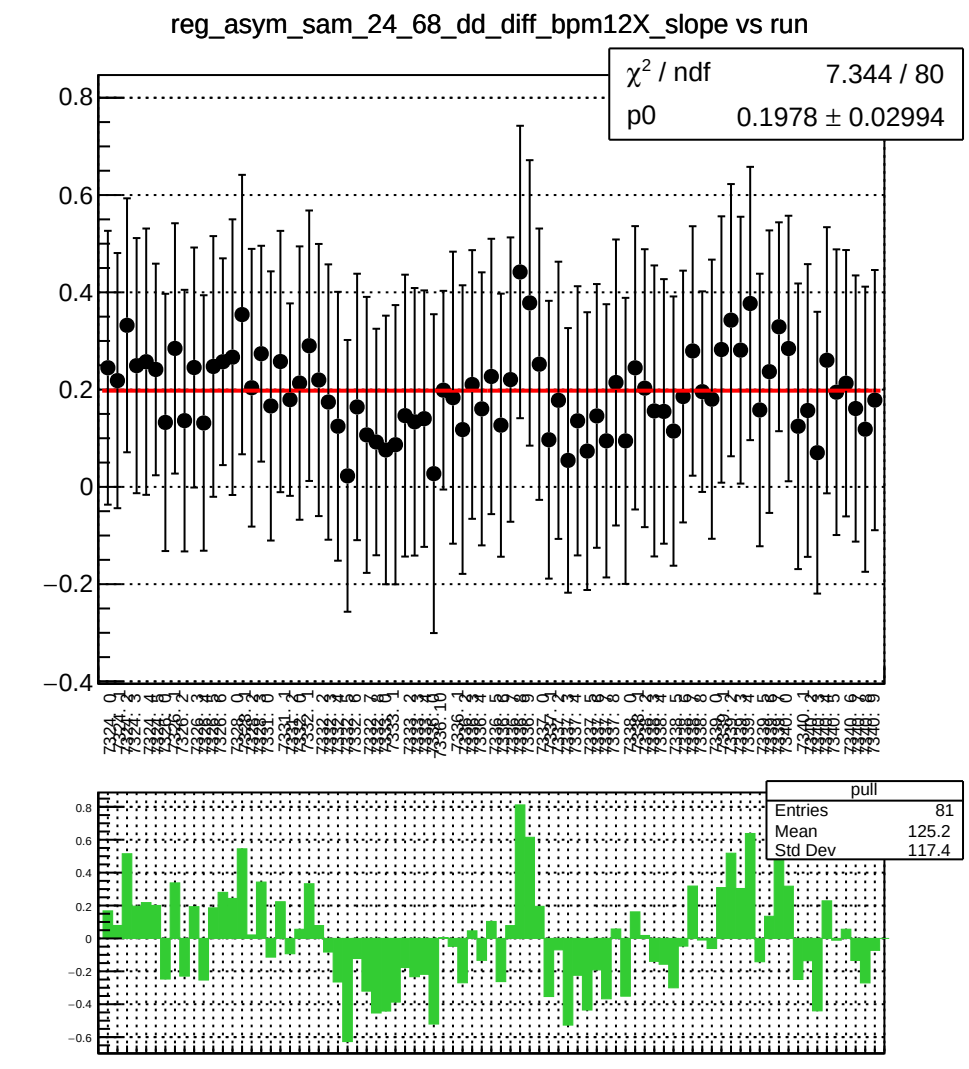

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 360.1 / 80
p0 −48.61 ± 0.6352
pull
Entries 81
Mean −119.8
Std Dev 149.5
pull1D
Entries 81
Mean 0.2136
Std Dev 2.098

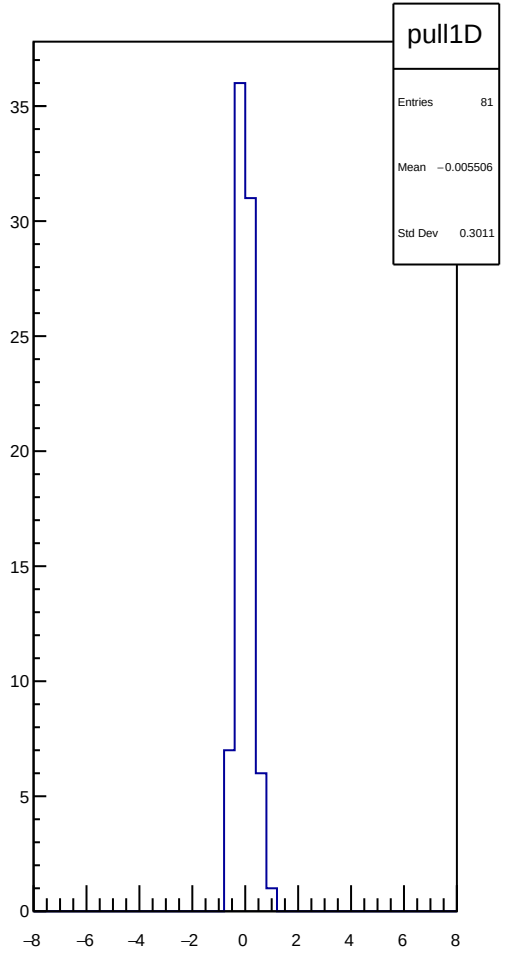

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.13 / 80
p0 9.456 ± 0.5734
pull
Entries 81
Mean −290.3
Std Dev 311.4
pull1D
Entries 81
Mean −0.02901
Std Dev 0.9498

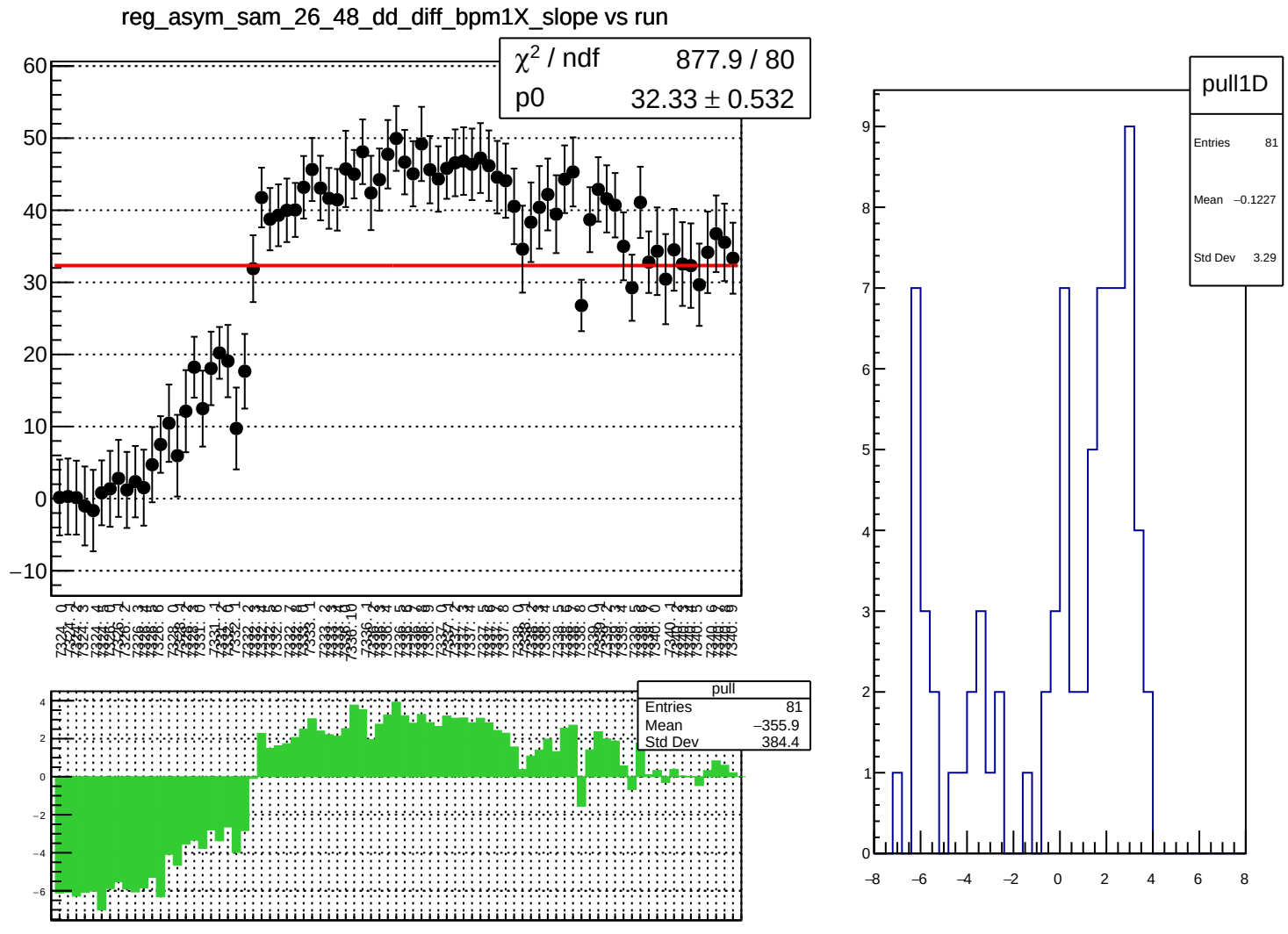

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 234.8 / 80
p0 −48 ± 0.6302
pull
Entries 81
Mean −67.31
Std Dev 90.51

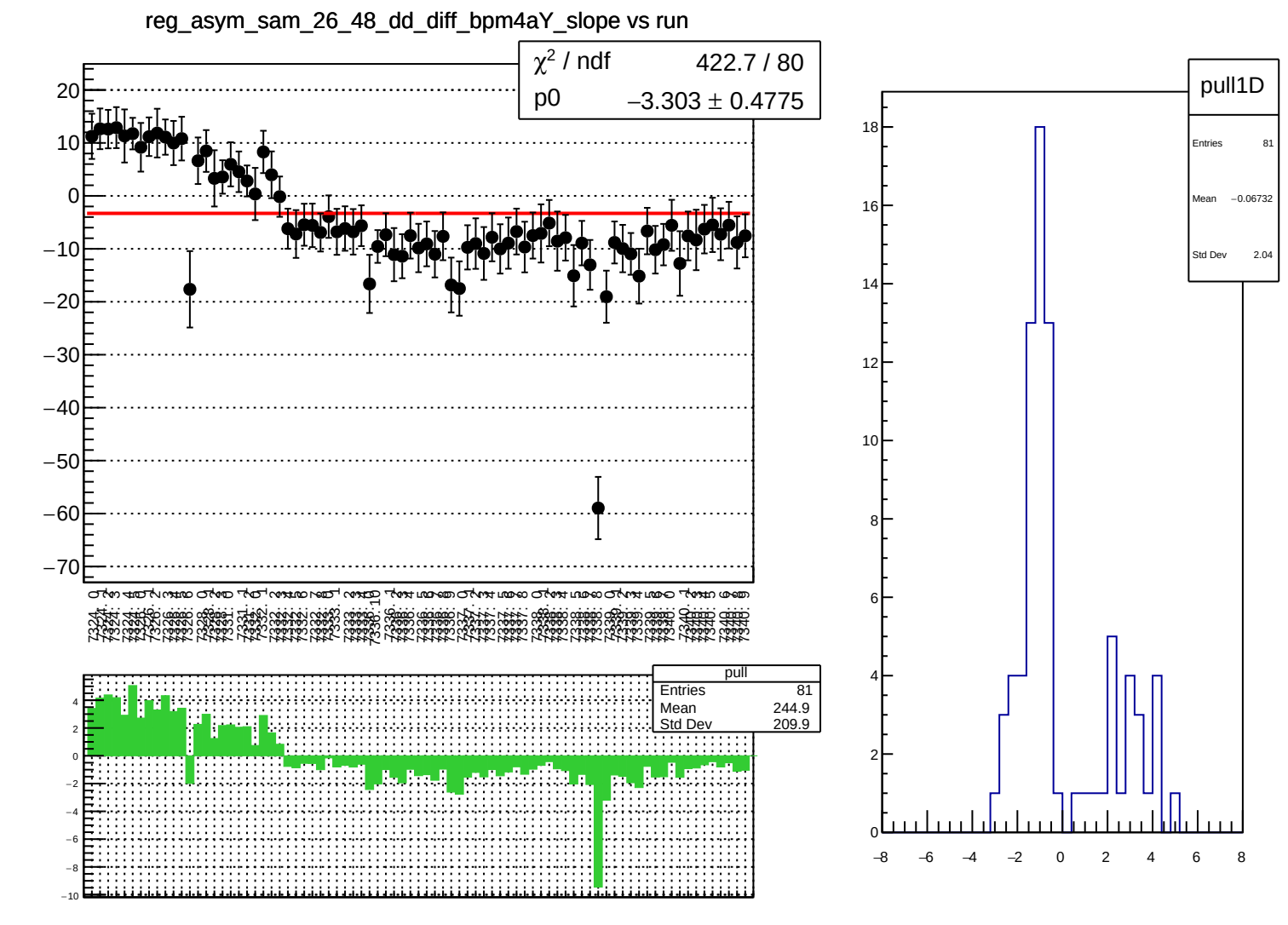

pull1D
Entries 81
Mean −0.1979
Std Dev 1.691

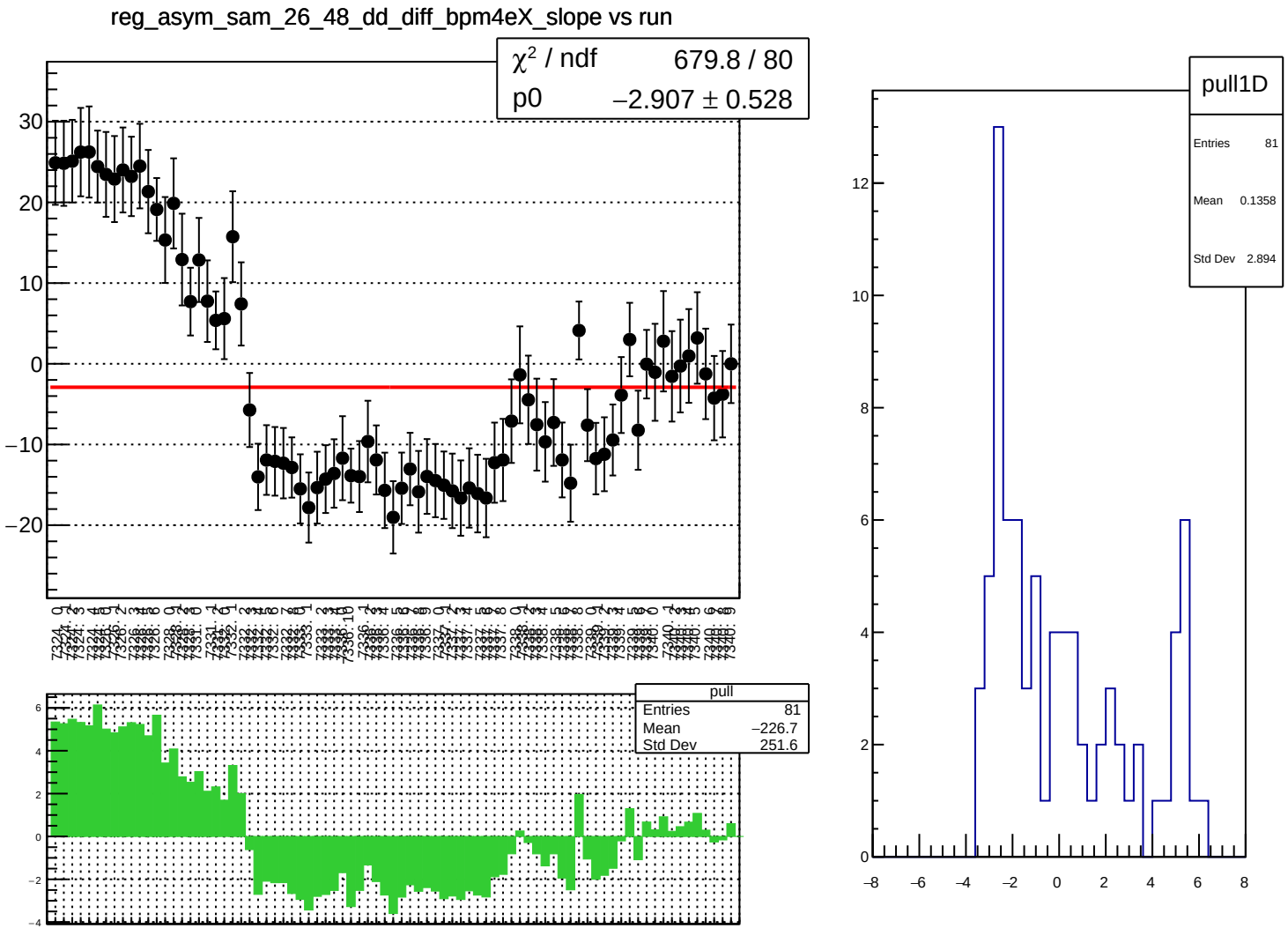

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.99 / 80
p0 −26.84 ± 0.6048
pull
Entries 81
Mean 172.7
Std Dev 98.13
pull1D
Entries 81
Mean 0.04028
Std Dev 0.8597

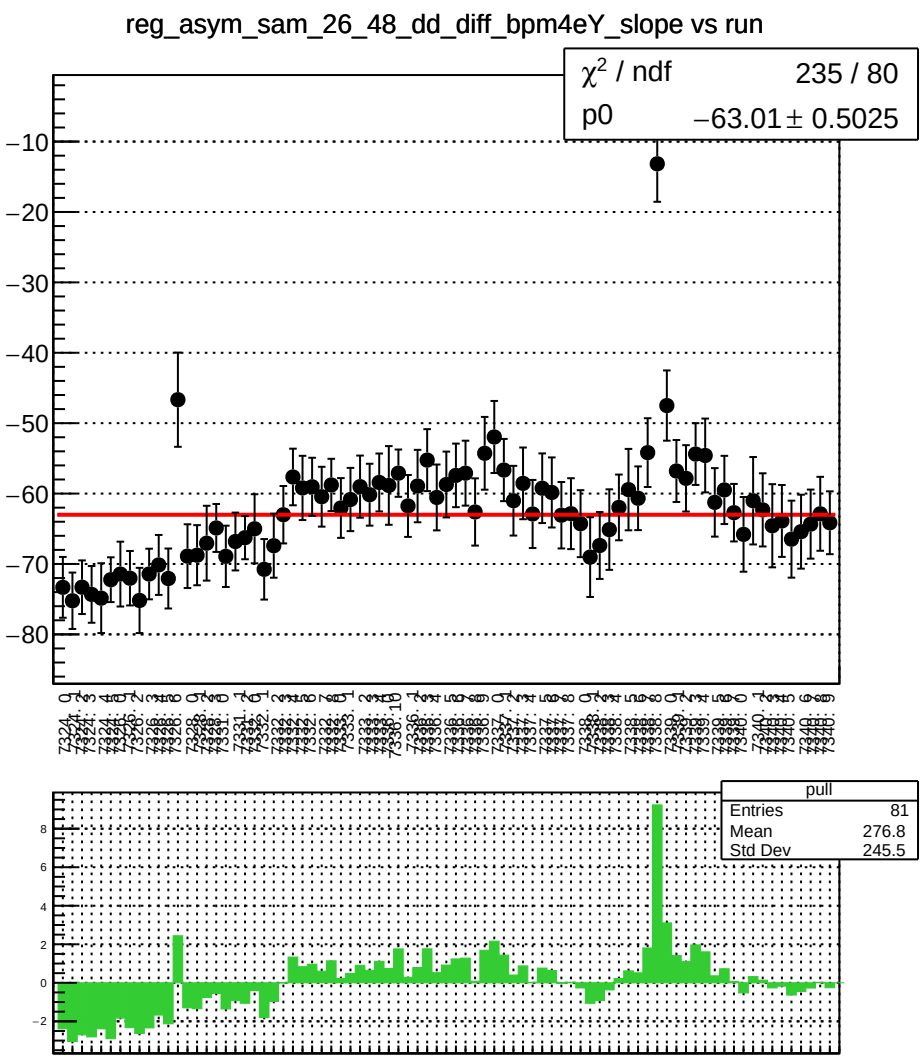

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 7.344 / 80
p0 0.1978 ± 0.02994
pull
Entries 81
Mean 125.2
Std Dev 117.4

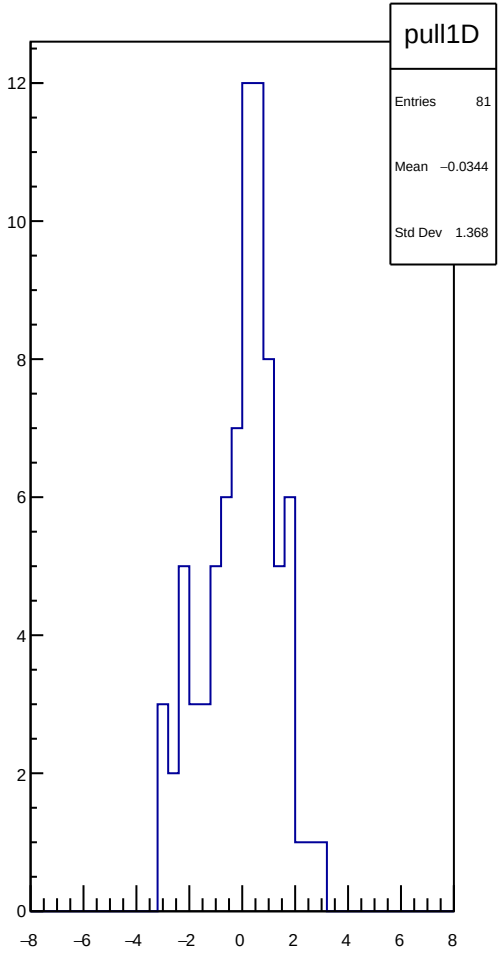

pull1D
Entries 81
Mean −0.005506
Std Dev 0.3011

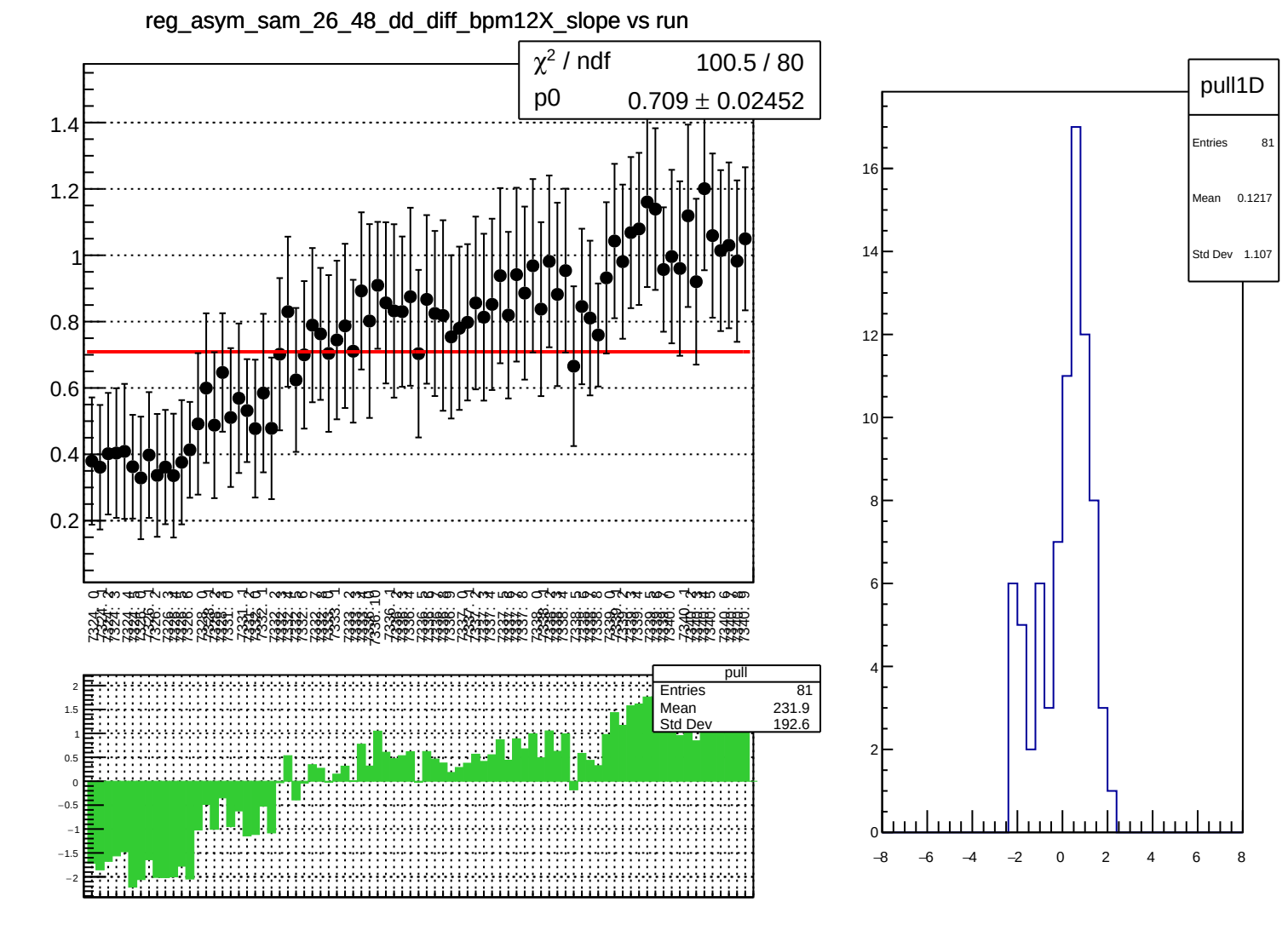

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 877.9 / 80
p0 32.33 ± 0.532
pull
Entries 81
Mean −355.9
Std Dev 384.4
pull1D
Entries 81
Mean −0.1227
Std Dev 3.29

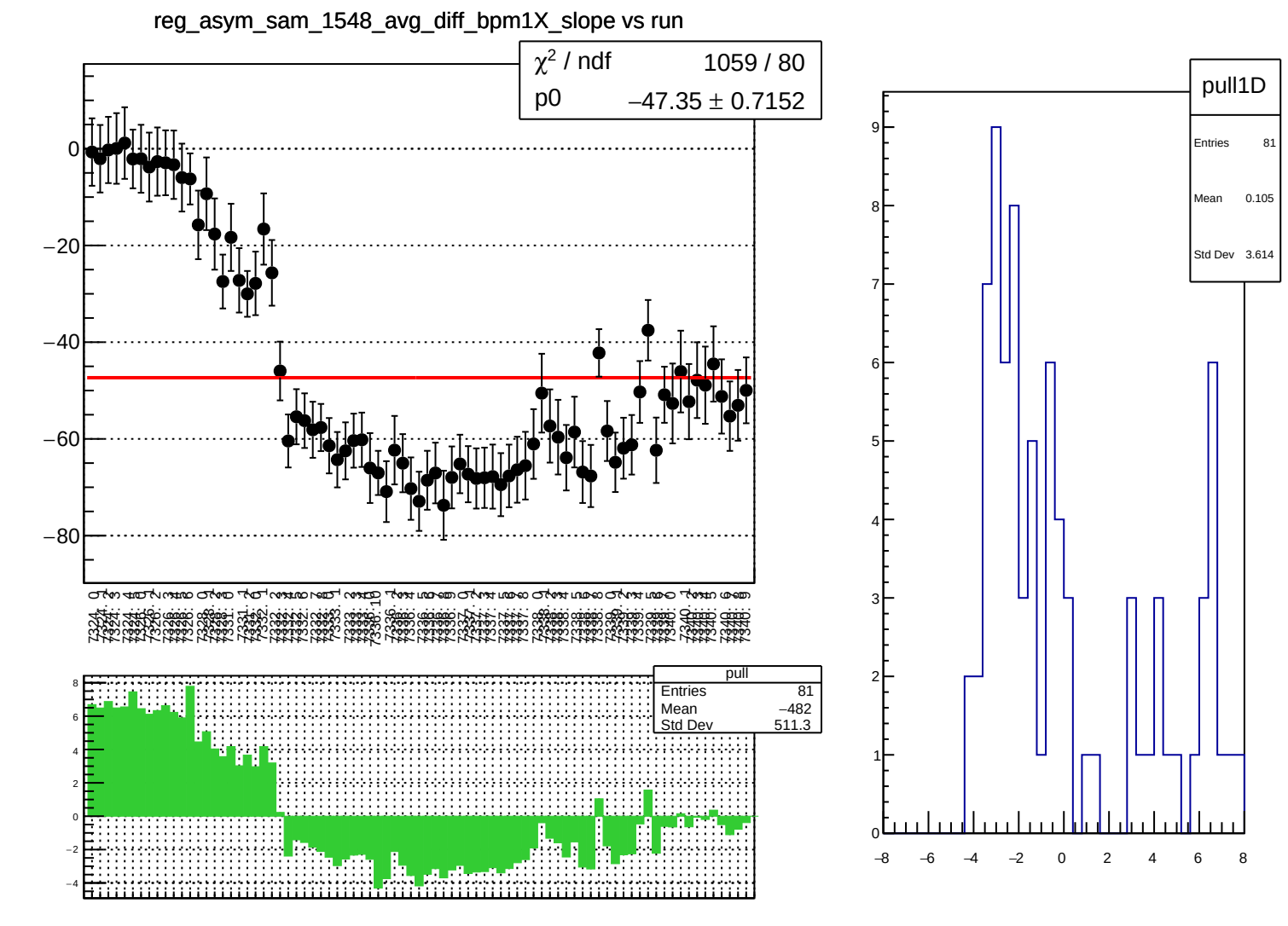

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 422.7 / 80
p0 −3.303 ± 0.4775
pull
Entries 81
Mean 244.9
Std Dev 209.9
pull1D
Entries 81
Mean −0.06732
Std Dev 2.04

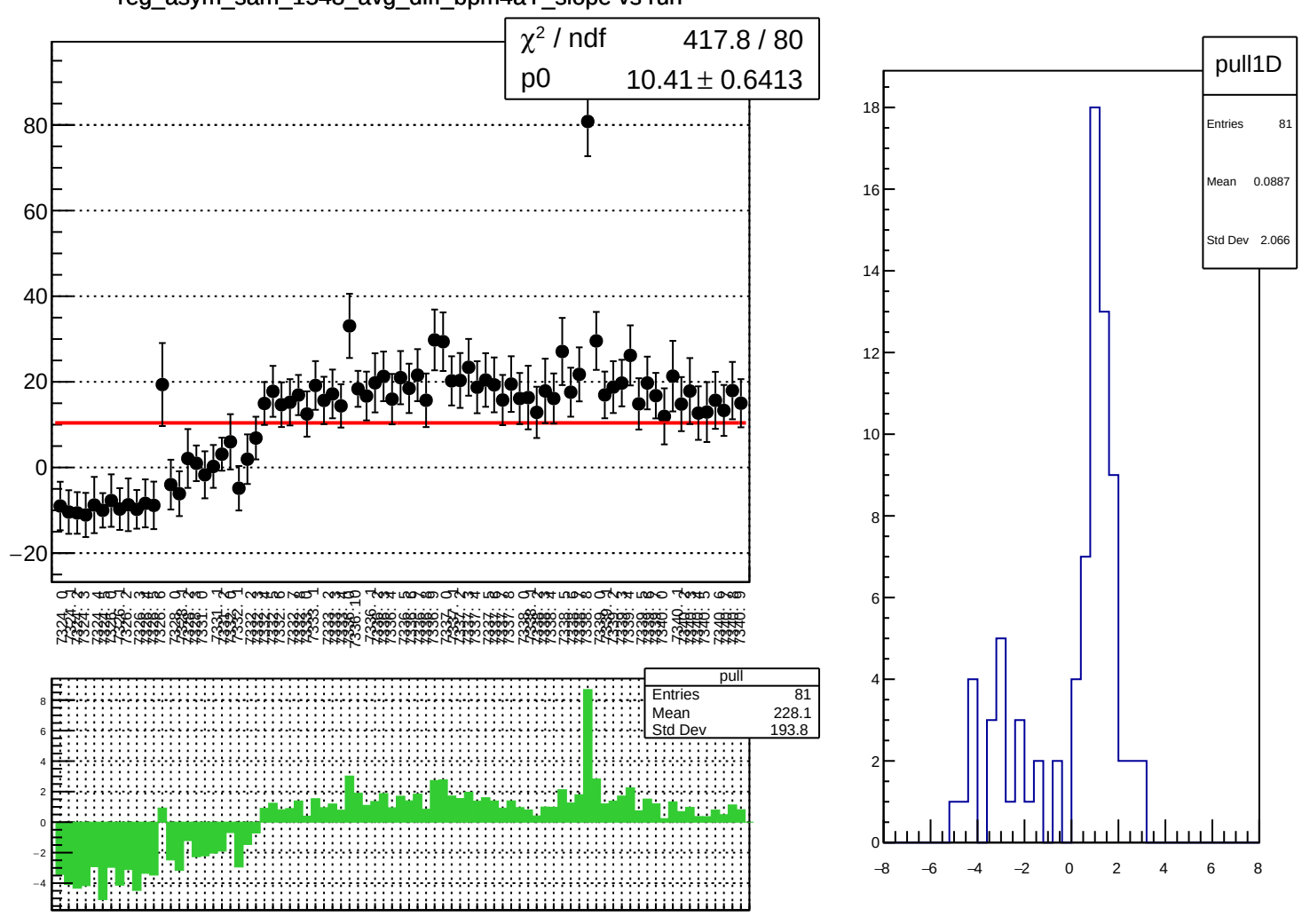

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 679.8 / 80
p0 −2.907 ± 0.528
pull
Entries 81
Mean −226.7
Std Dev 251.6
pull1D
Entries 81
Mean 0.1358
Std Dev 2.894

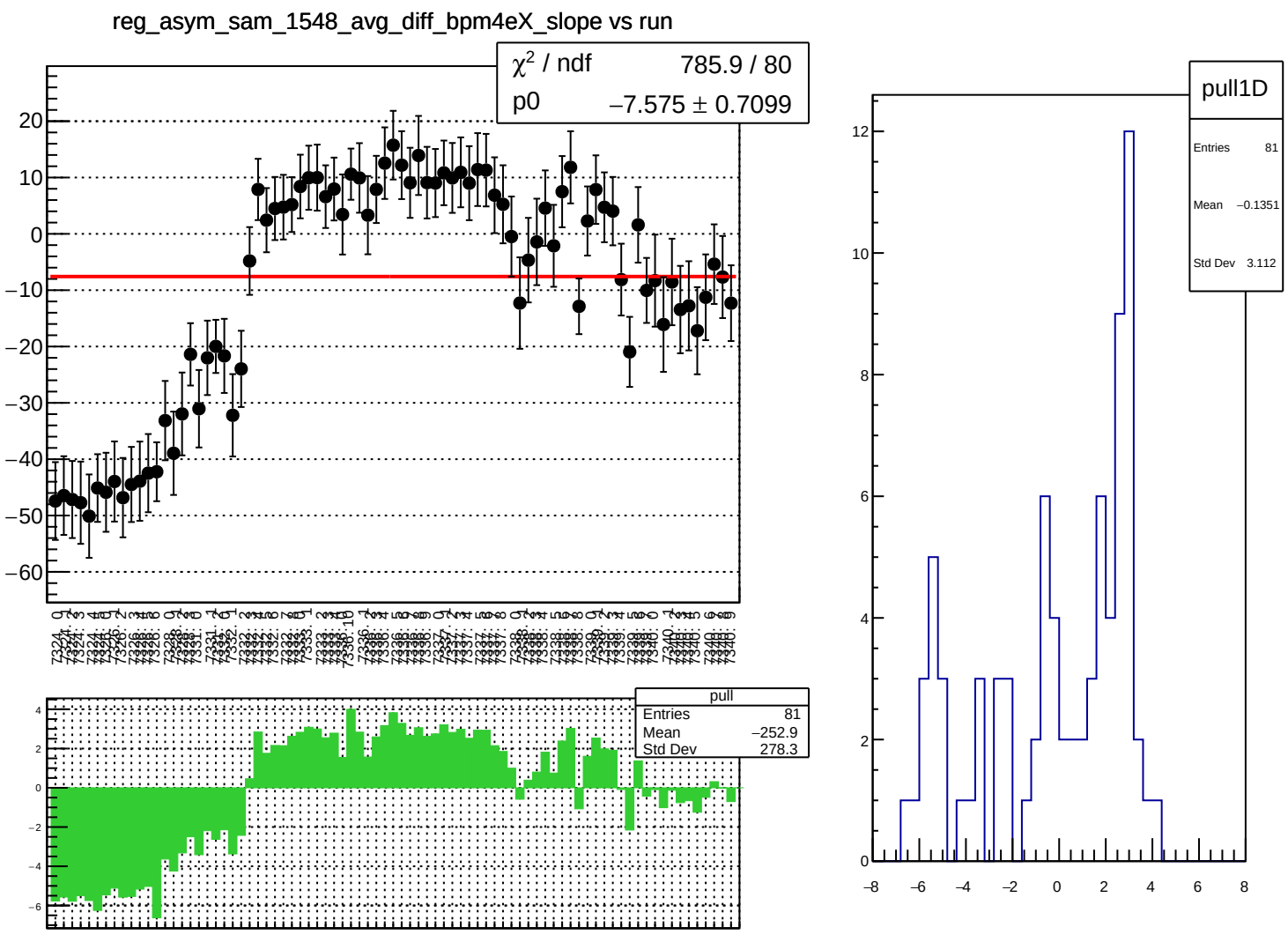

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 235 / 80
p0 −63.01 ± 0.5025
pull
Entries 81
Mean 276.8
Std Dev 245.5

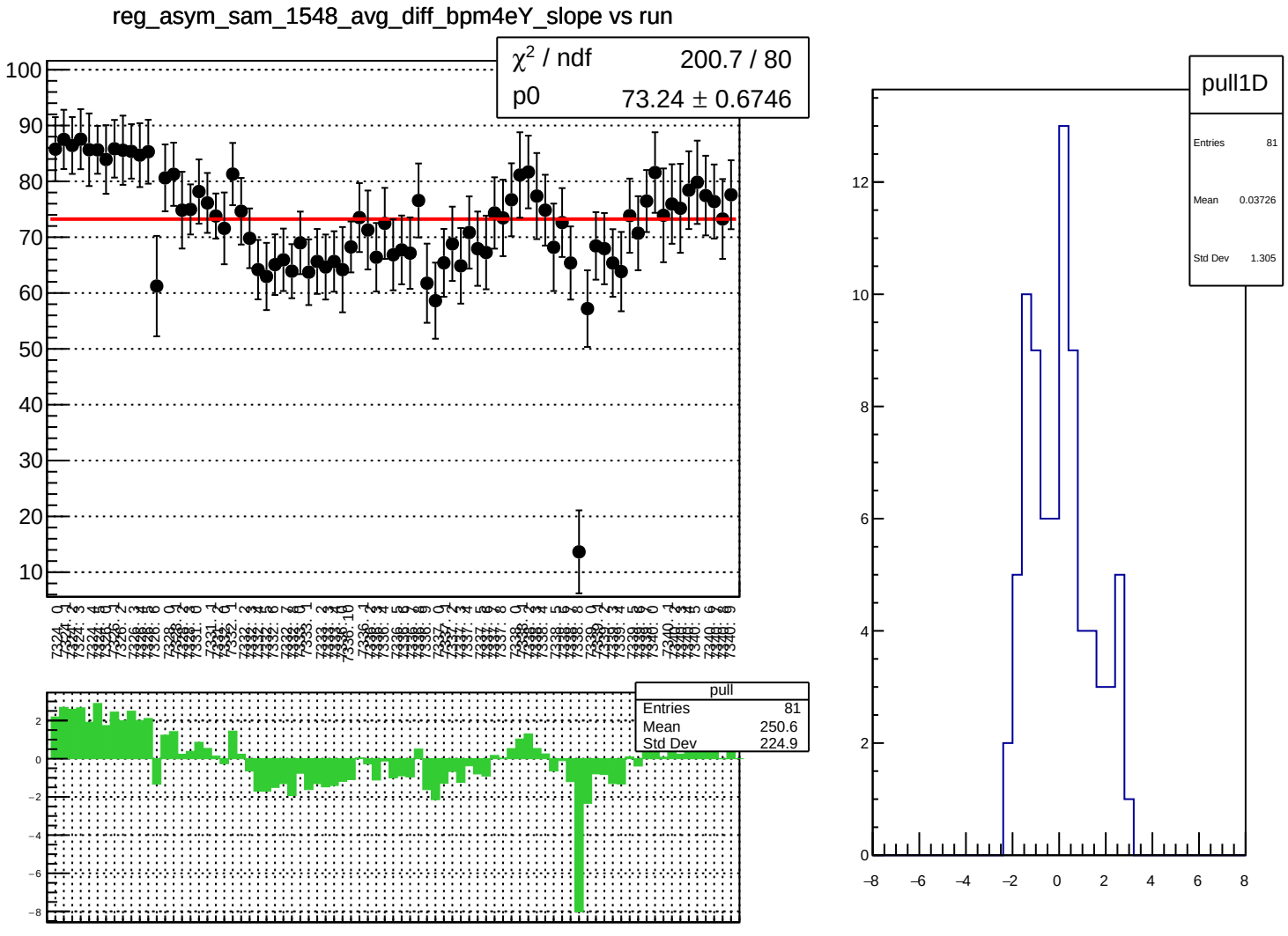

pull1D
Entries 81
Mean −0.0344
Std Dev 1.368

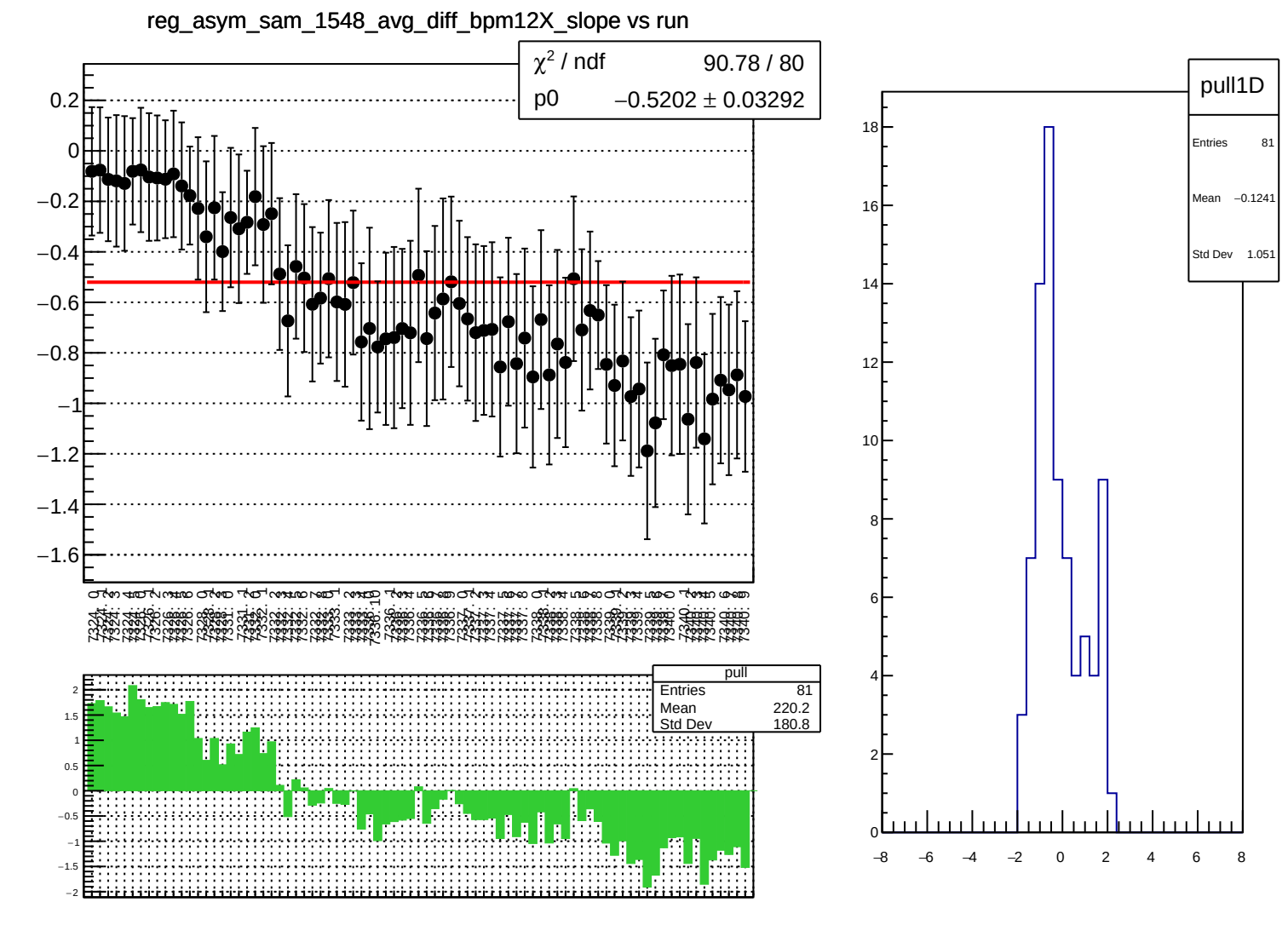

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 100.5 / 80
p0 0.709 ± 0.02452
pull
Entries 81
Mean 231.9
Std Dev 192.6
pull1D
Entries 81
Mean 0.1217
Std Dev 1.107

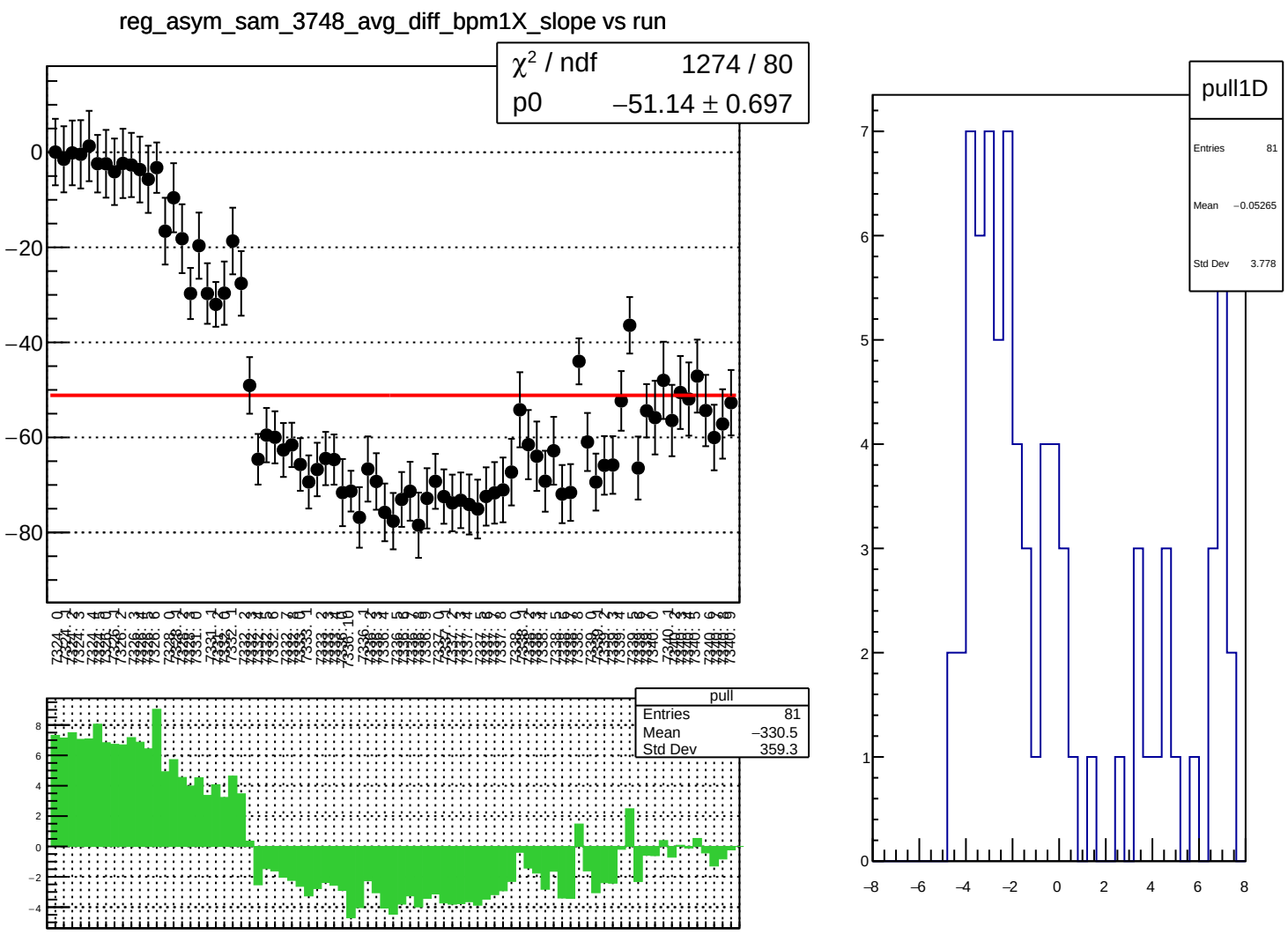

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 1059 / 80
p0 −47.35 ± 0.7152
pull
Entries 81
Mean −482
Std Dev 511.3
pull1D
Entries 81
Mean 0.105
Std Dev 3.614

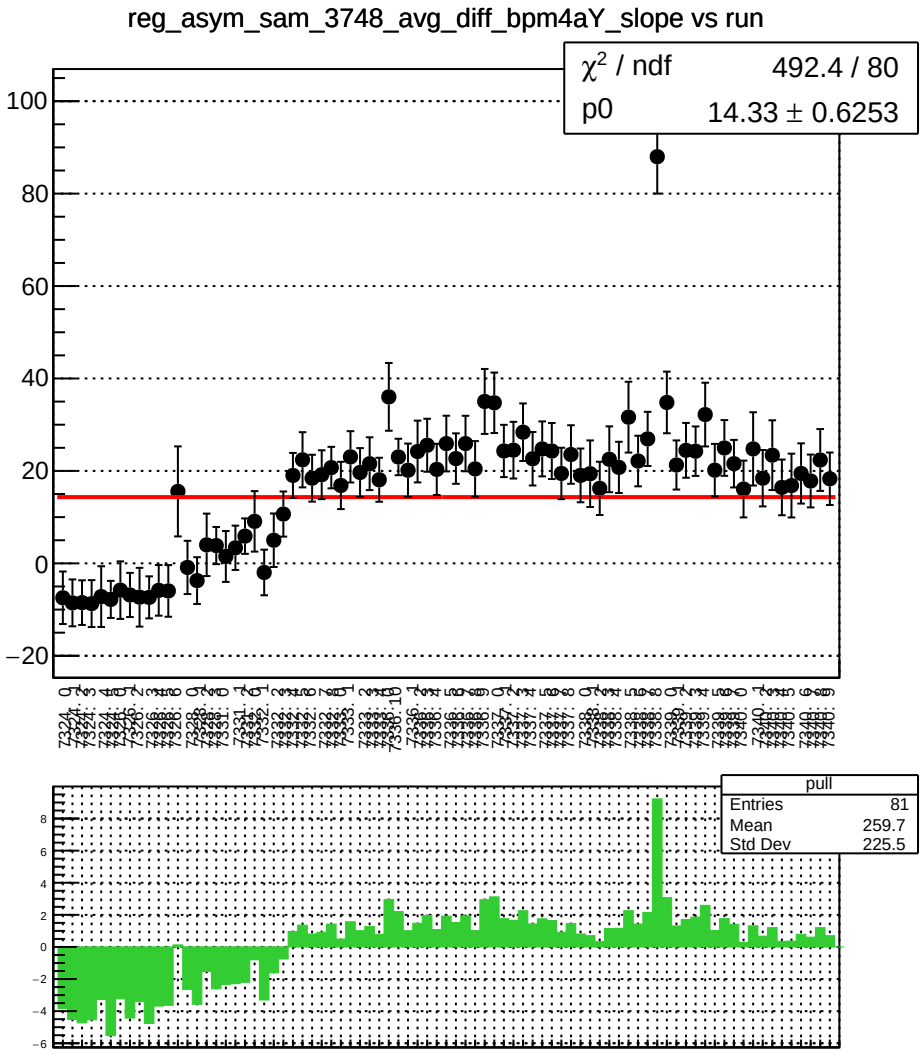

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 417.8 / 80
p0 10.41 ± 0.6413
pull
Entries 81
Mean 228.1
Std Dev 193.8
pull1D
Entries 81
Mean 0.0887
Std Dev 2.066

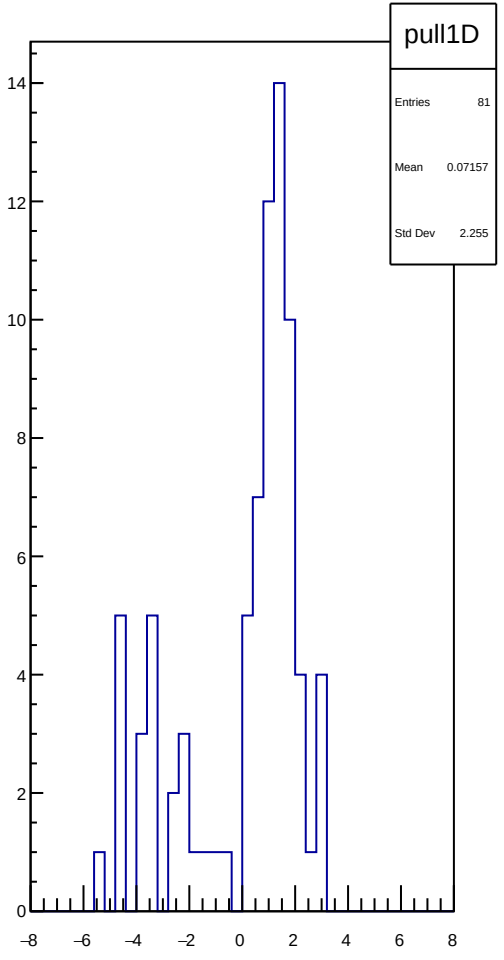

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 785.9 / 80
p0 −7.575 ± 0.7099
pull
Entries 81
Mean −252.9
Std Dev 278.3
pull1D
Entries 81
Mean −0.1351
Std Dev 3.112

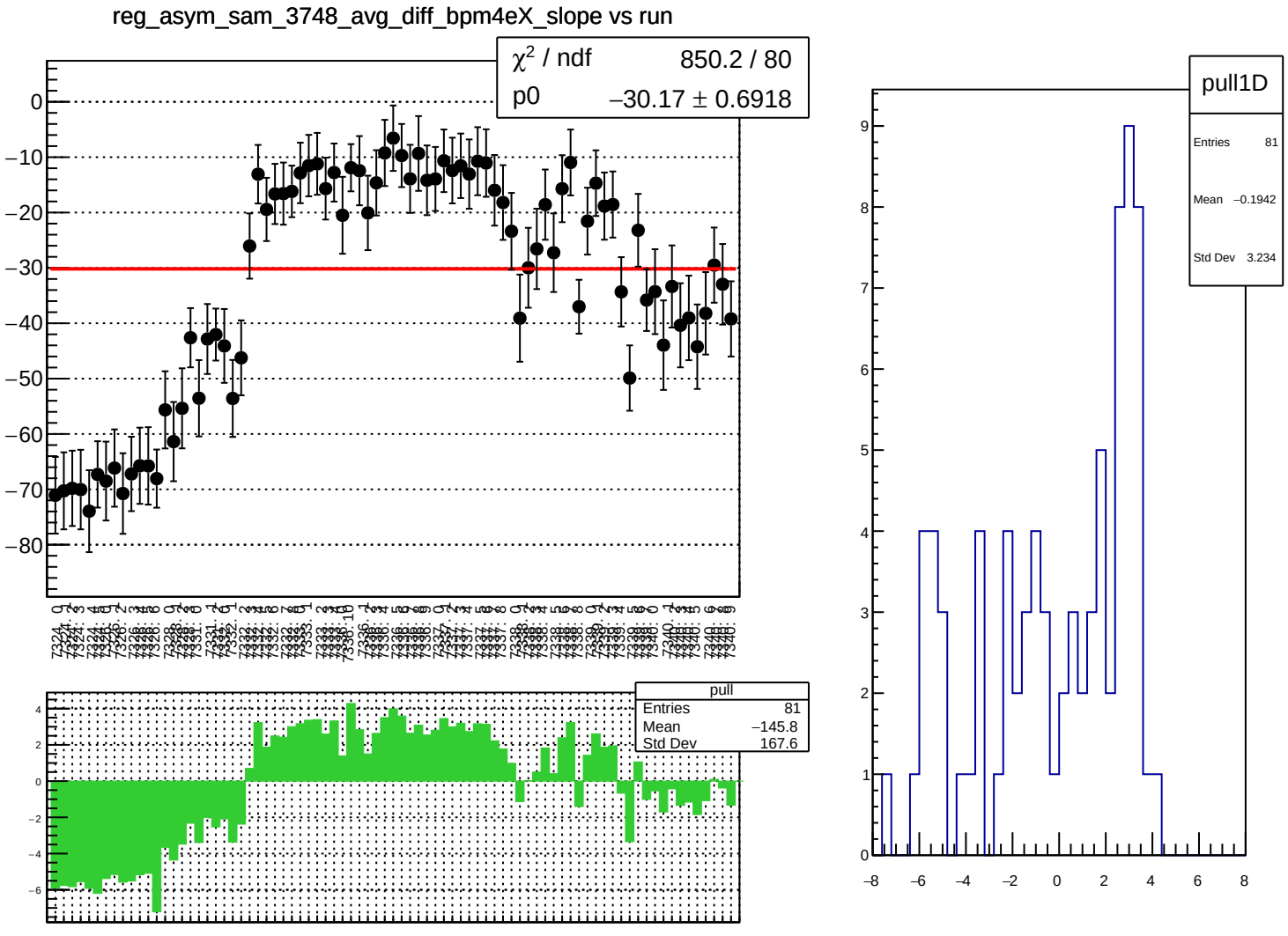

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 200.7 / 80
p0 73.24 ± 0.6746
pull
Entries 81
Mean 250.6
Std Dev 224.9
pull1D
Entries 81
Mean 0.03726
Std Dev 1.305

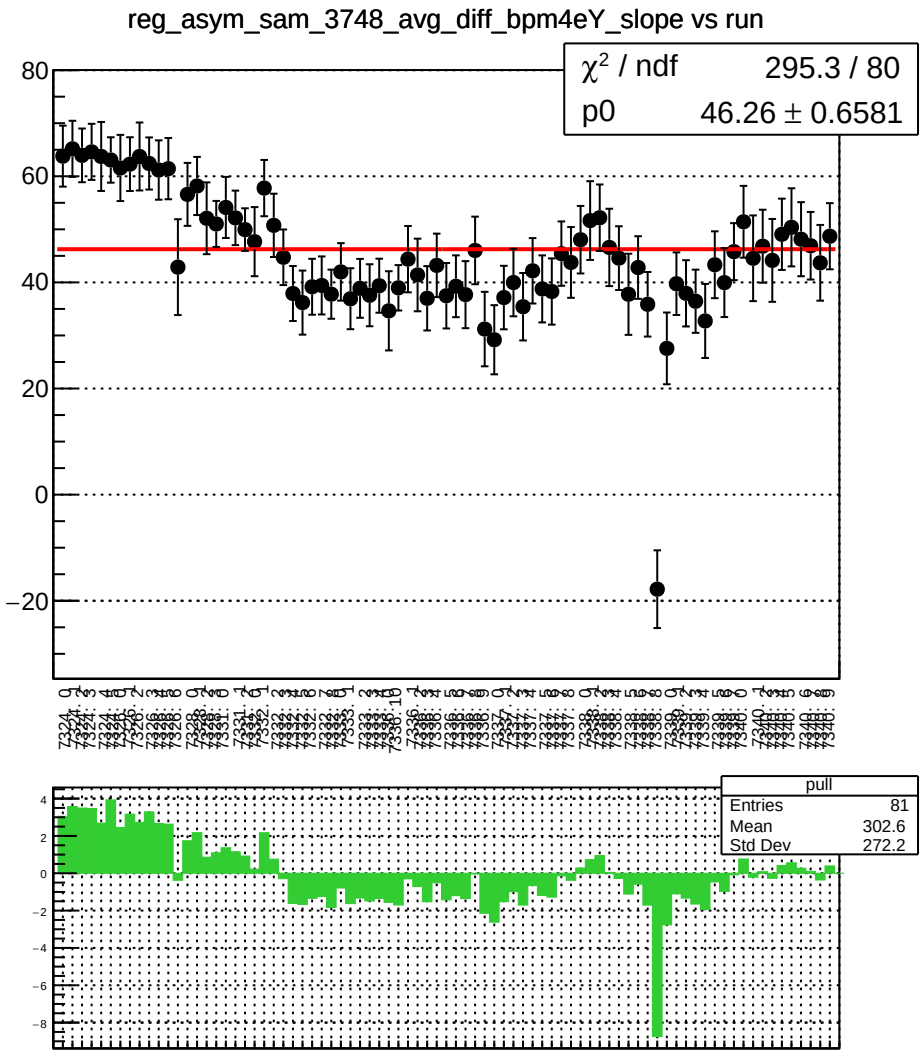

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 90.78 / 80
p0 −0.5202 ± 0.03292
pull
Entries 81
Mean 220.2
Std Dev 180.8
pull1D
Entries 81
Mean −0.1241
Std Dev 1.051

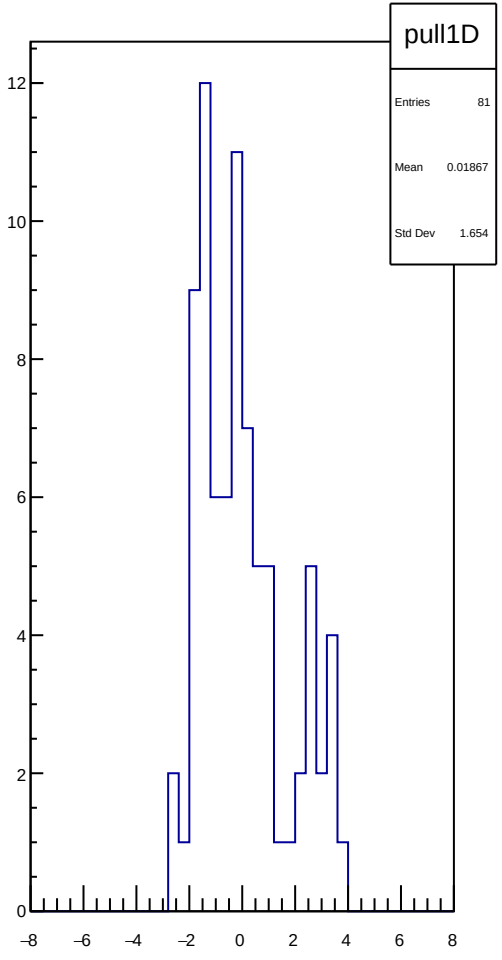

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 1274 / 80
p0 −51.14 ± 0.697
pull
Entries 81
Mean −330.5
Std Dev 359.3
pull1D
Entries 81
Mean −0.05265
Std Dev 3.778

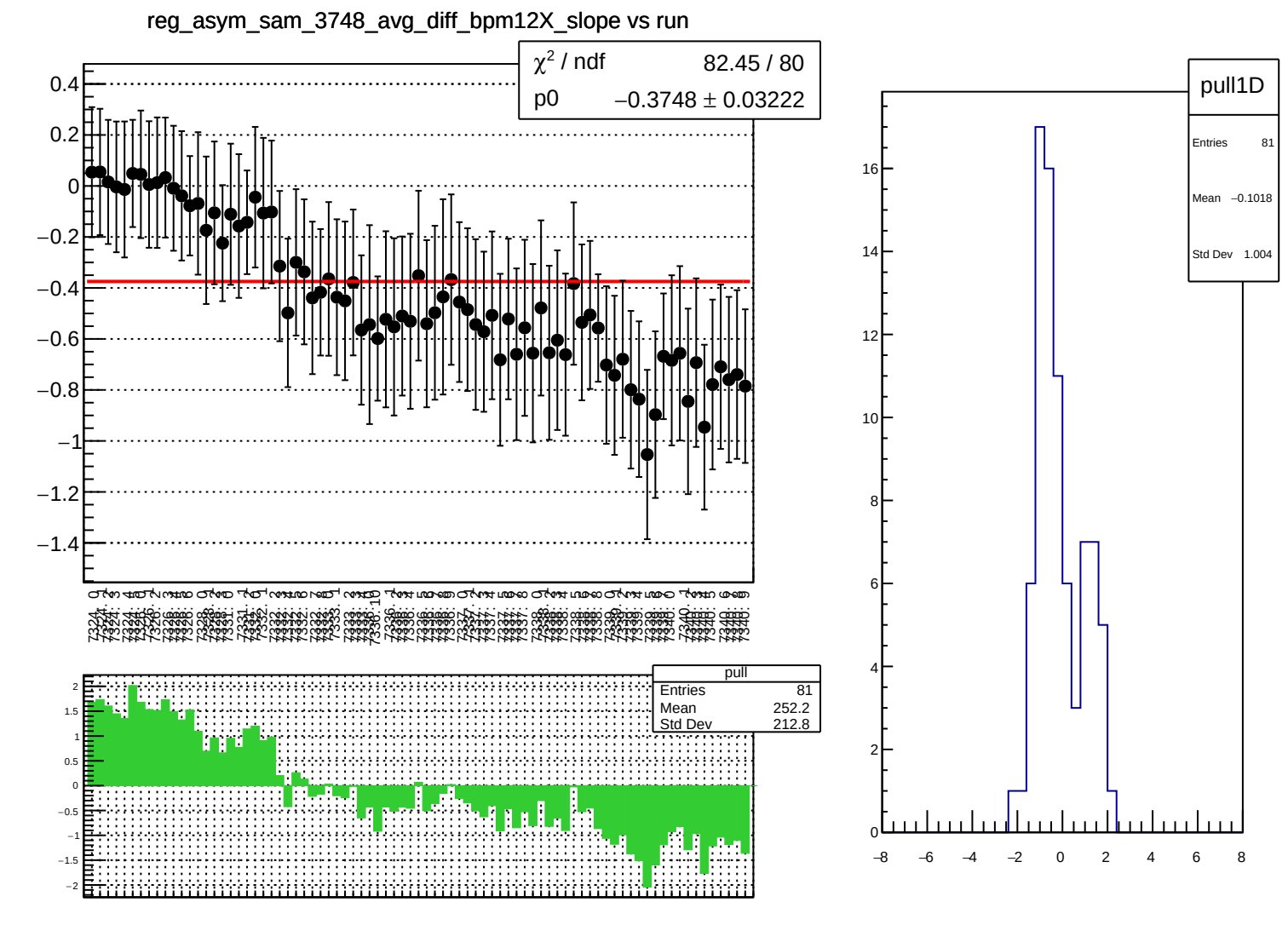

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 492.4 / 80
p0 14.33 ± 0.6253
pull
Entries 81
Mean 259.7
Std Dev 225.5

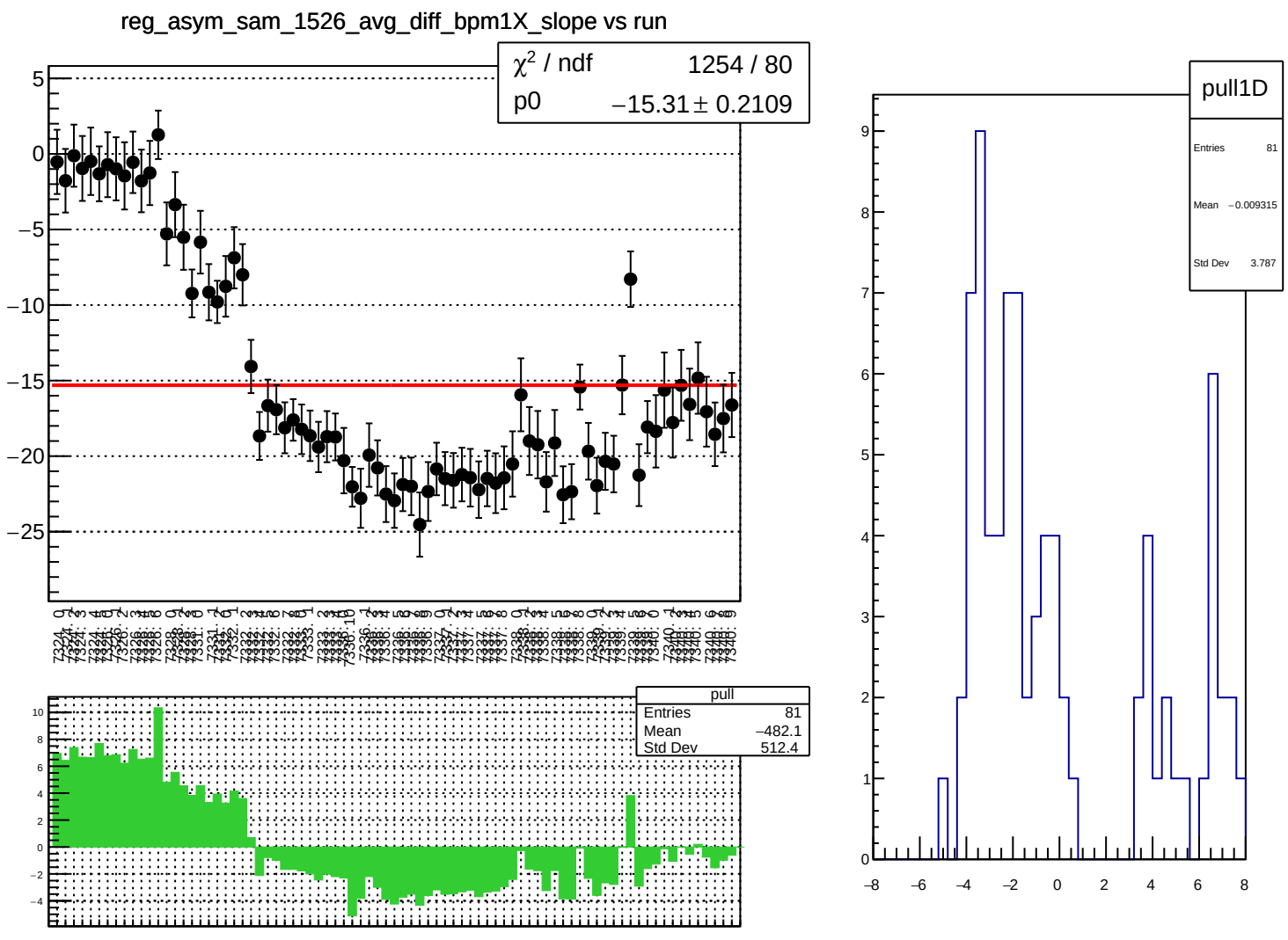

pull1D
Entries 81
Mean 0.07157
Std Dev 2.255

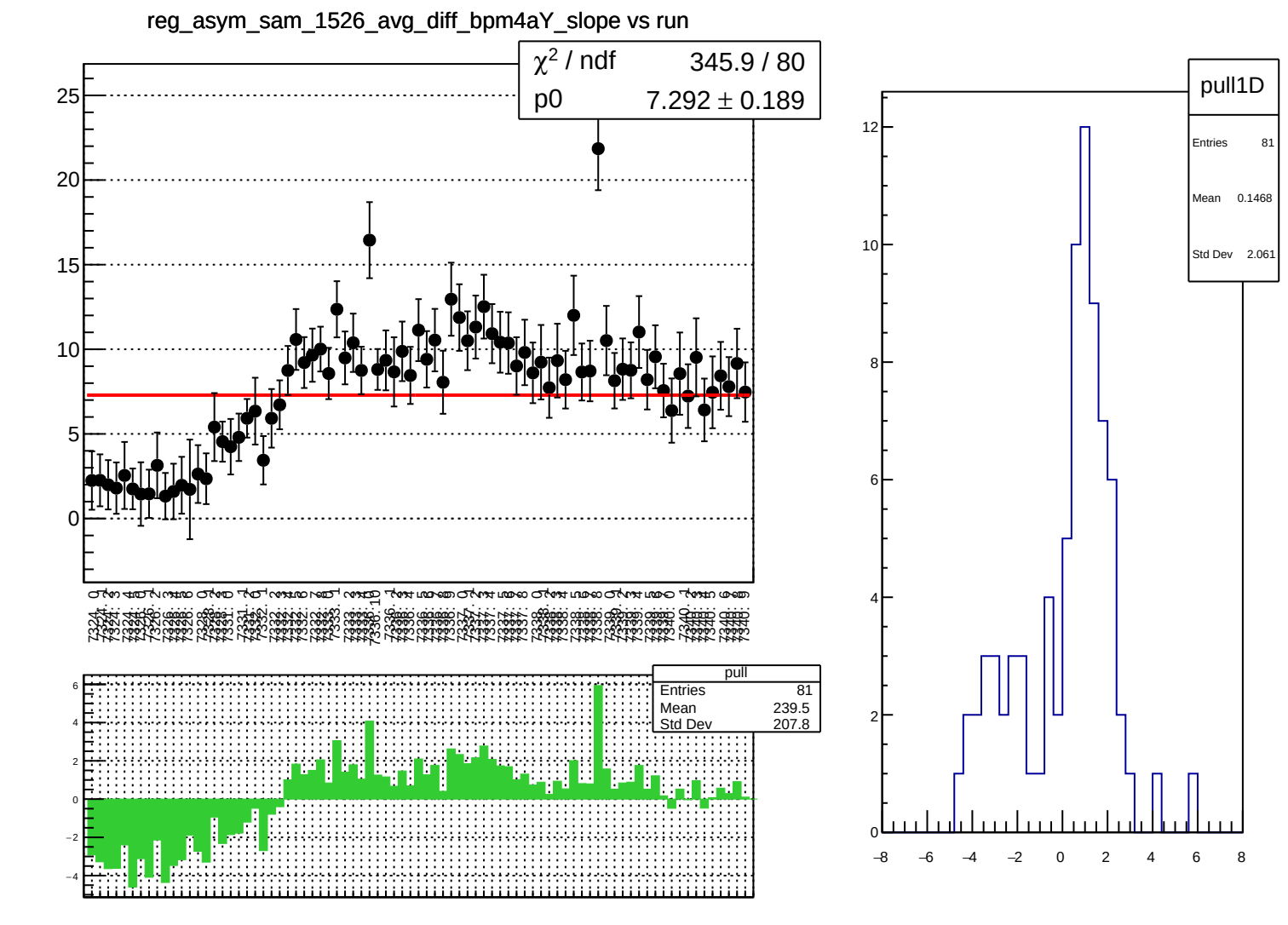

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 850.2 / 80
p0 −30.17 ± 0.6918
pull
Entries 81
Mean −145.8
Std Dev 167.6
pull1D
Entries 81
Mean −0.1942
Std Dev 3.234

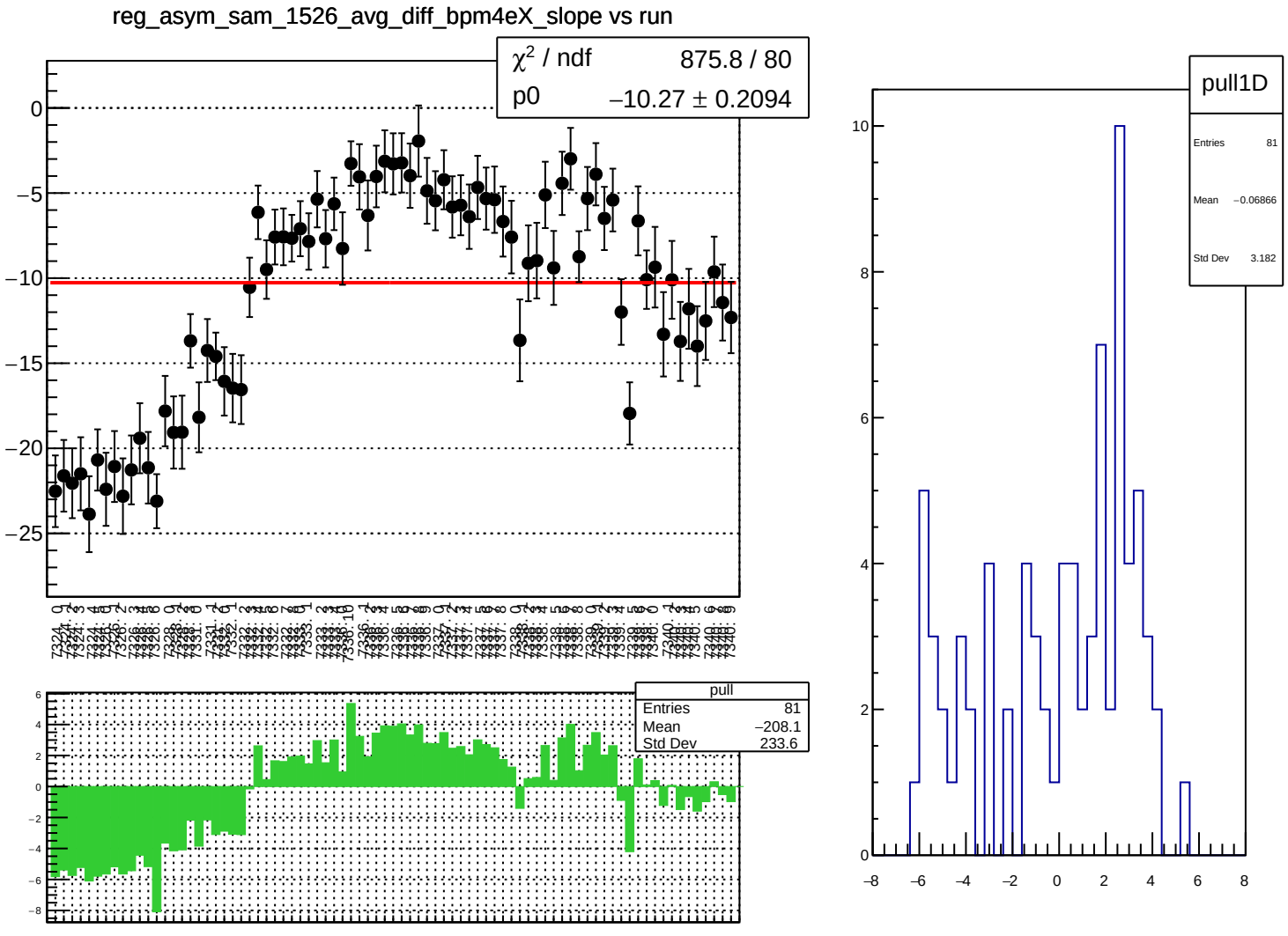

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 295.3 / 80
p0 46.26 ± 0.6581
pull
Entries 81
Mean 302.6
Std Dev 272.2

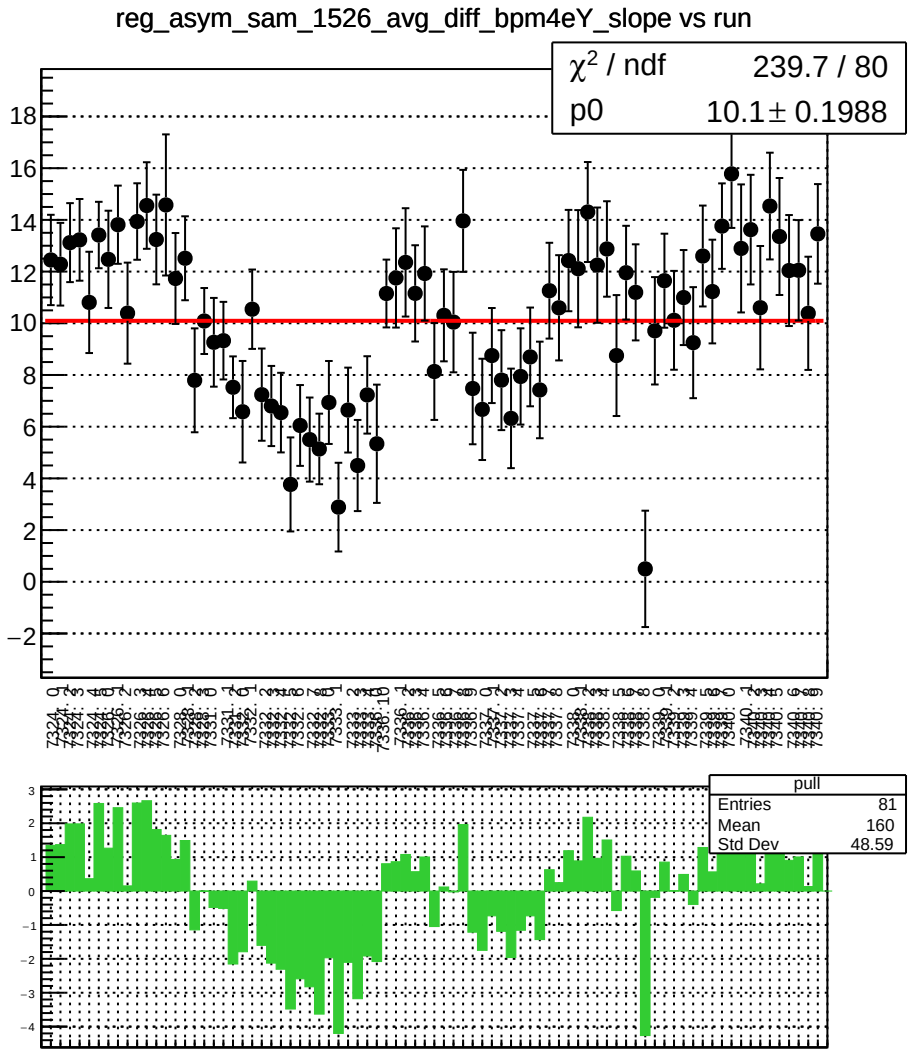

pull1D
Entries 81
Mean 0.01867
Std Dev 1.654

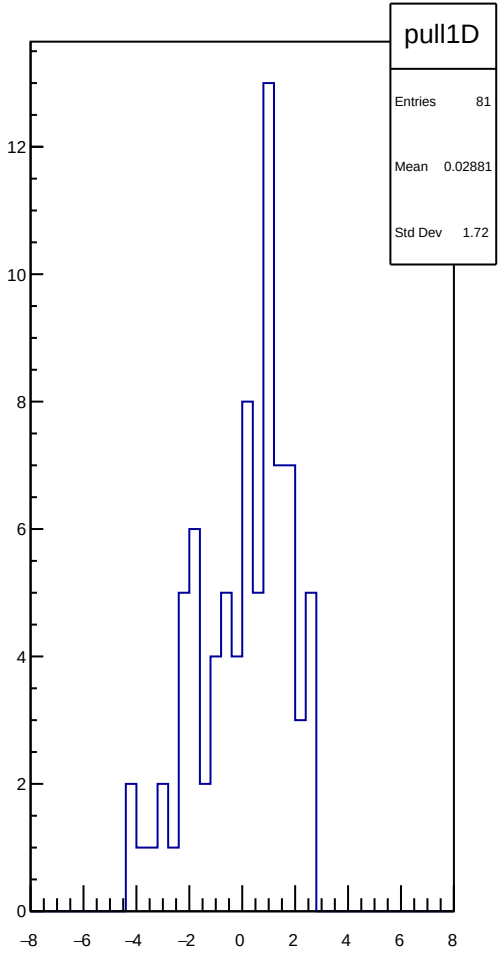

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 82.45 / 80
p0 −0.3748 ± 0.03222
pull
Entries 81
Mean 252.2
Std Dev 212.8
pull1D
Entries 81
Mean −0.1018
Std Dev 1.004

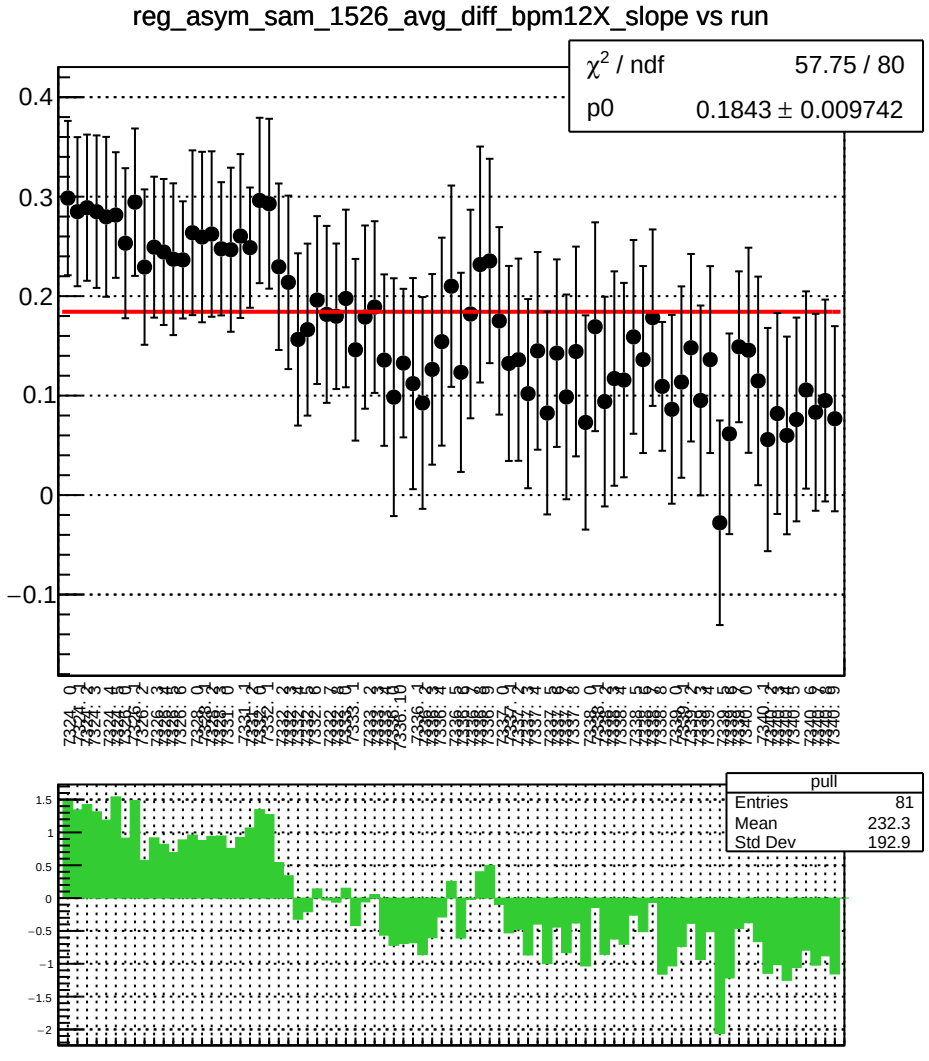

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 1254 / 80
p0 −15.31 ± 0.2109
pull
Entries 81
Mean −482.1
Std Dev 512.4
pull1D
Entries 81
Mean −0.009315
Std Dev 3.787

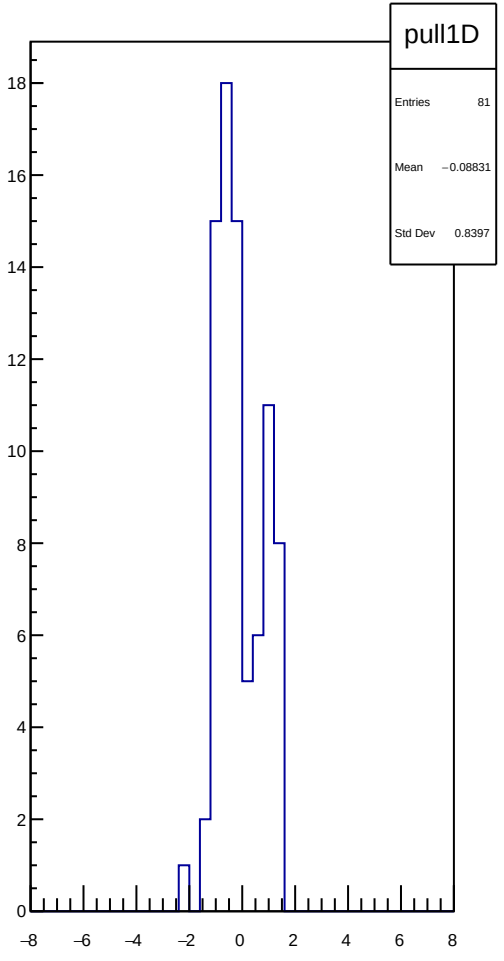

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 345.9 / 80
p0 7.292 ± 0.189
pull
Entries 81
Mean 239.5
Std Dev 207.8
pull1D
Entries 81
Mean 0.1468
Std Dev 2.061

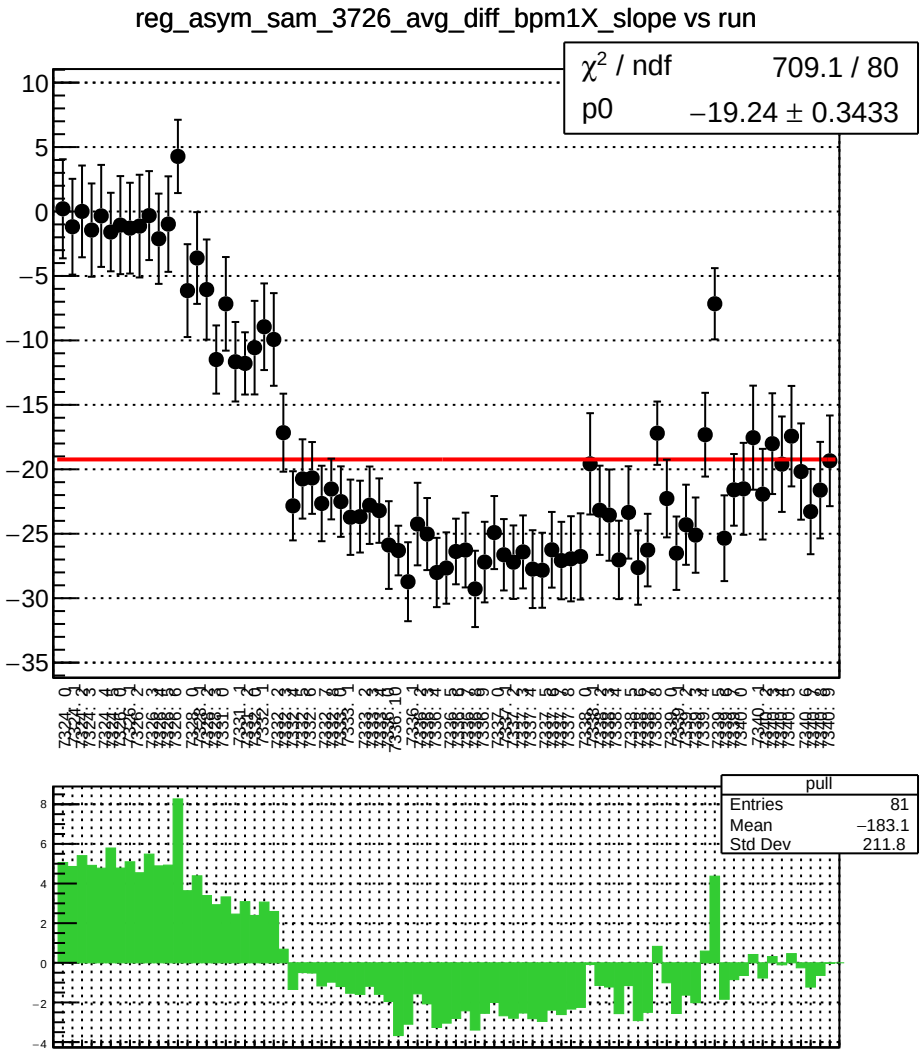

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 875.8 / 80
p0 −10.27 ± 0.2094
pull
Entries 81
Mean −208.1
Std Dev 233.6
pull1D
Entries 81
Mean −0.06866
Std Dev 3.182

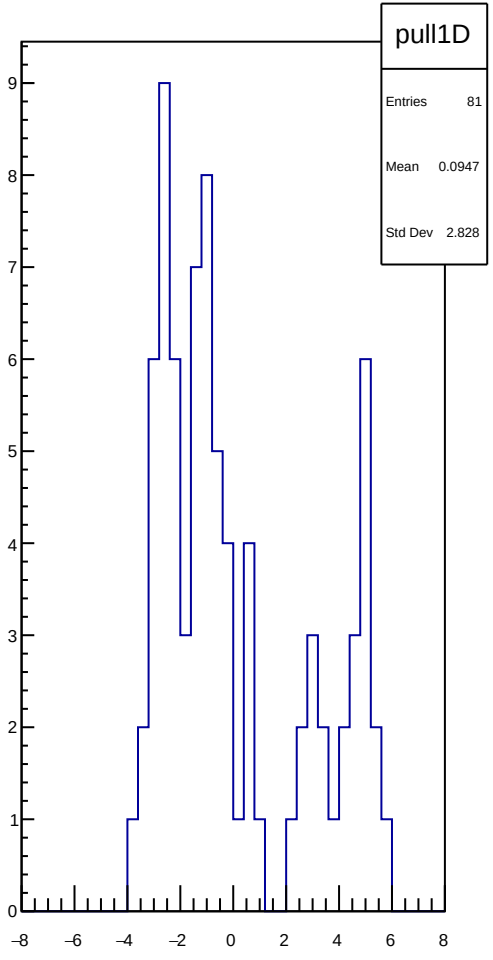

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 239.7 / 80
p0 10.1 ± 0.1988
pull
Entries 81
Mean 160
Std Dev 48.59

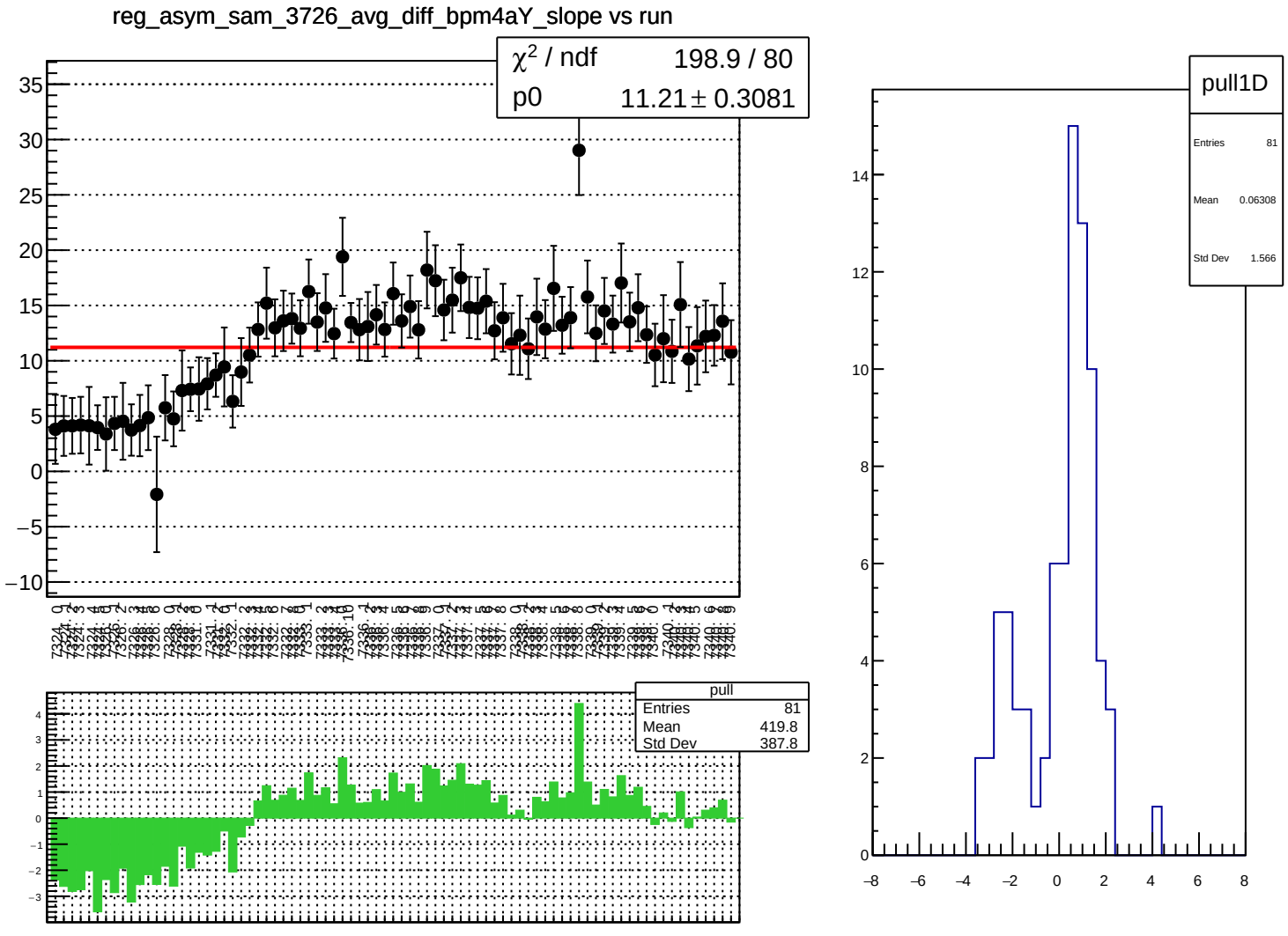

pull1D
Entries 81
Mean 0.02881
Std Dev 1.72

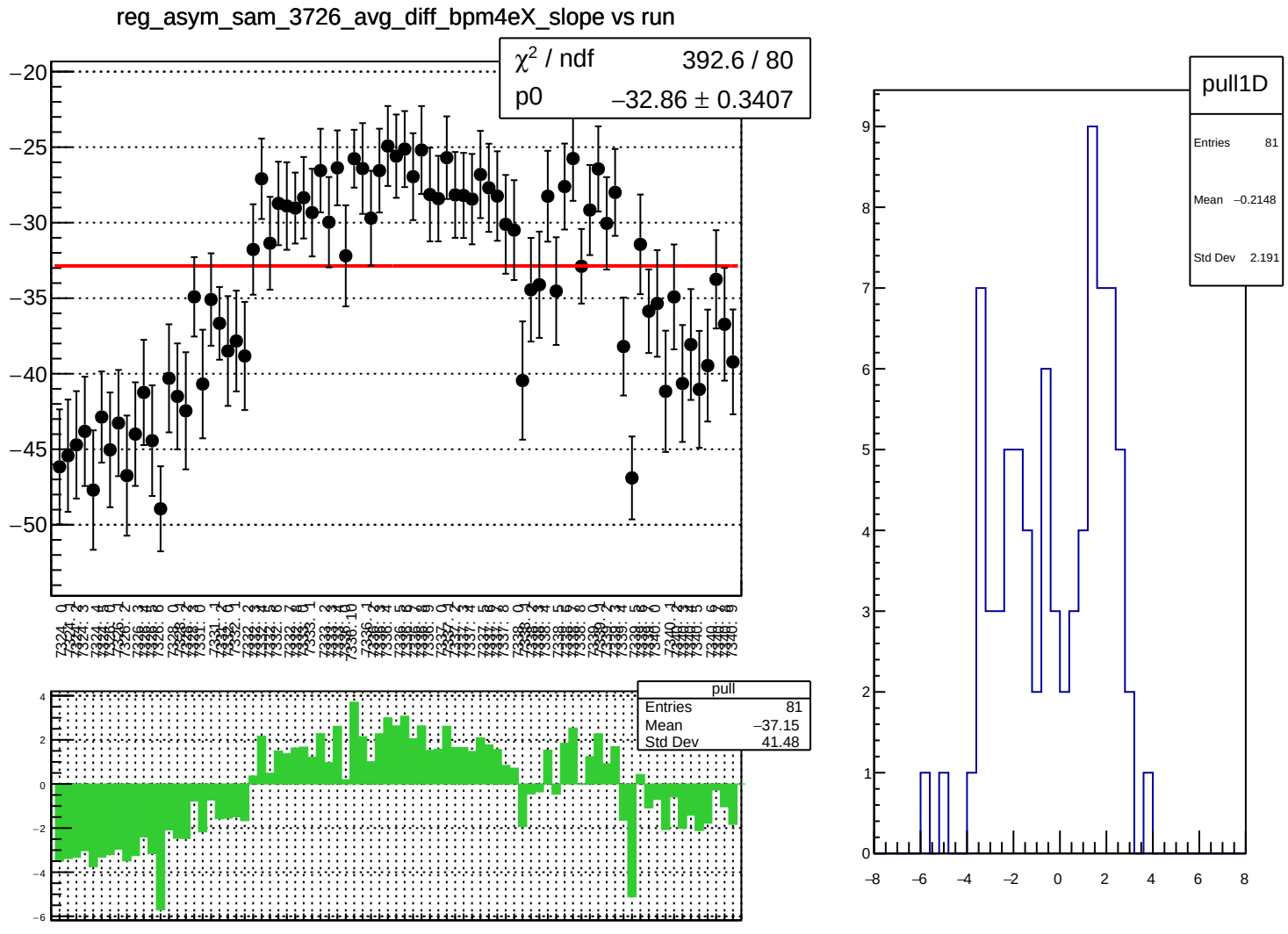

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 57.75 / 80
p0 0.1843 ± 0.009742
pull
Entries 81
Mean 232.3
Std Dev 192.9

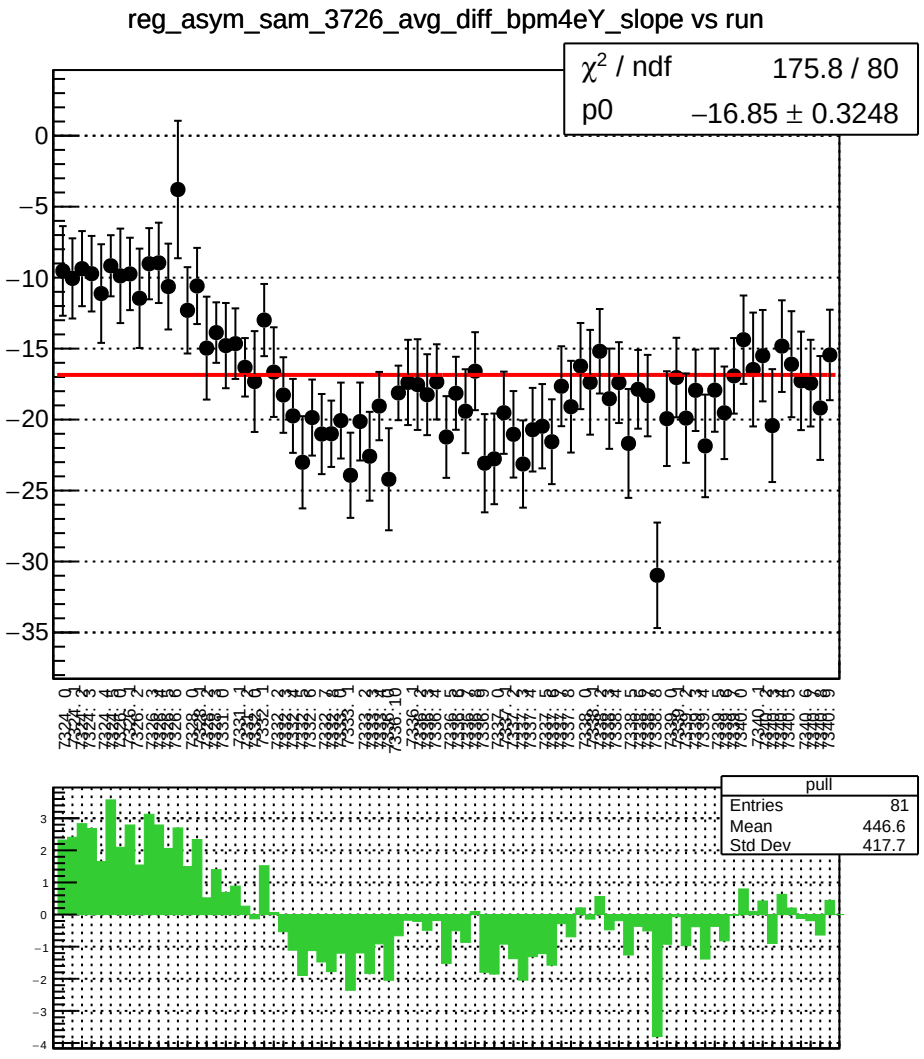

pull1D
Entries 81
Mean −0.08831
Std Dev 0.8397

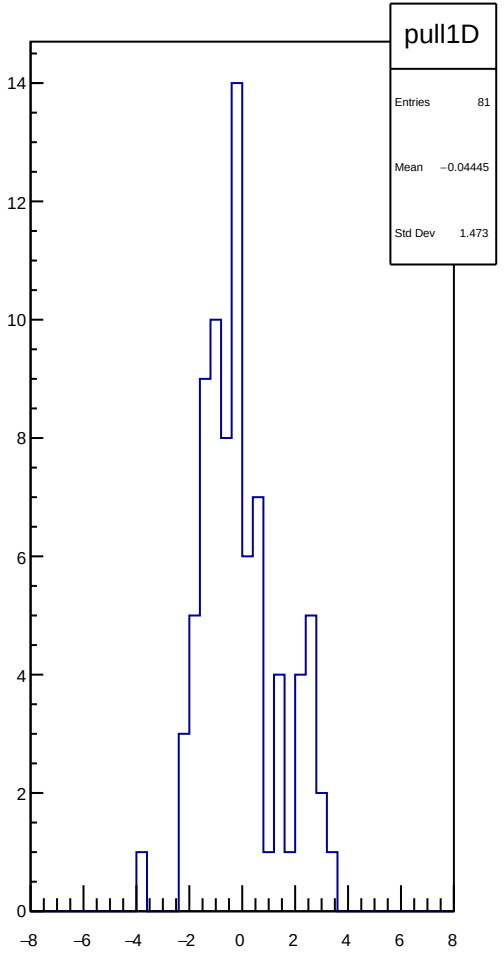

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 709.1 / 80
p0 −19.24 ± 0.3433
pull
Entries 81
Mean −183.1
Std Dev 211.8

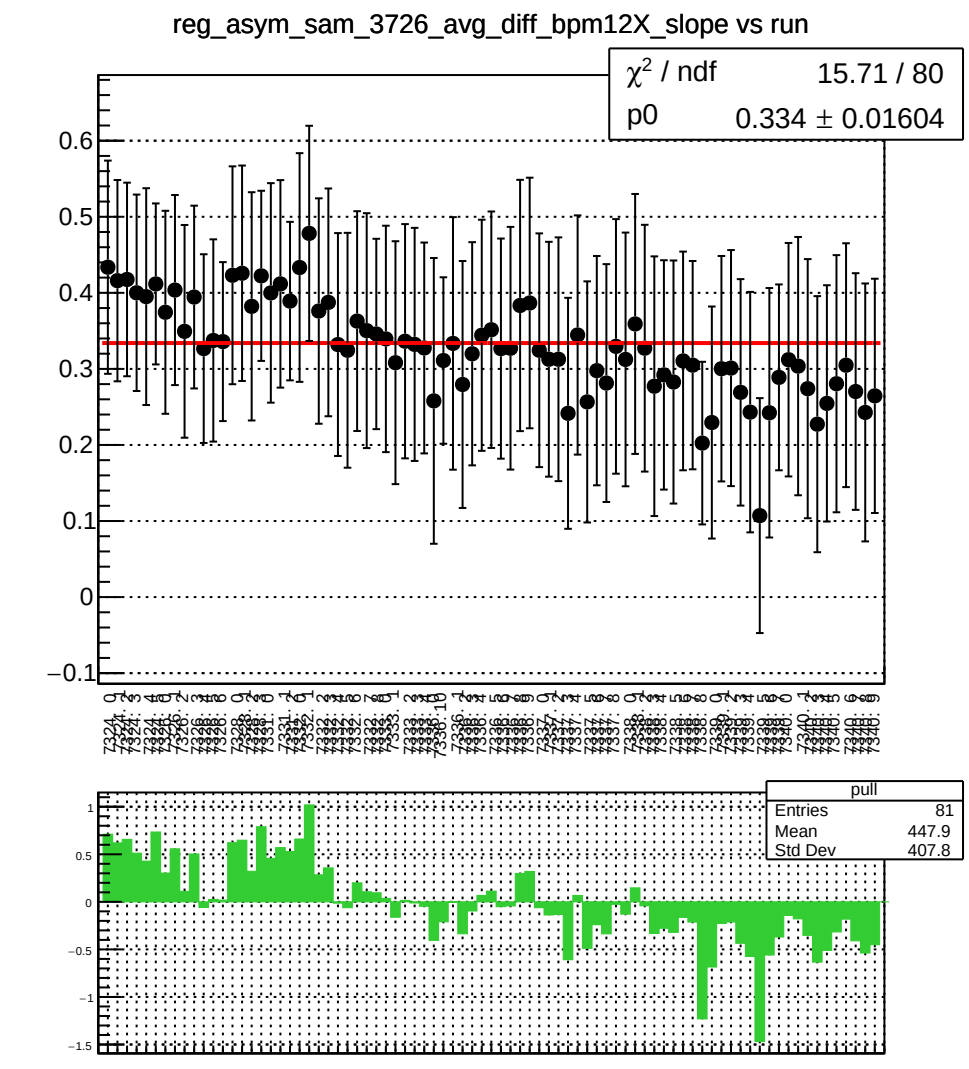

pull1D
Entries 81
Mean 0.0947
Std Dev 2.828

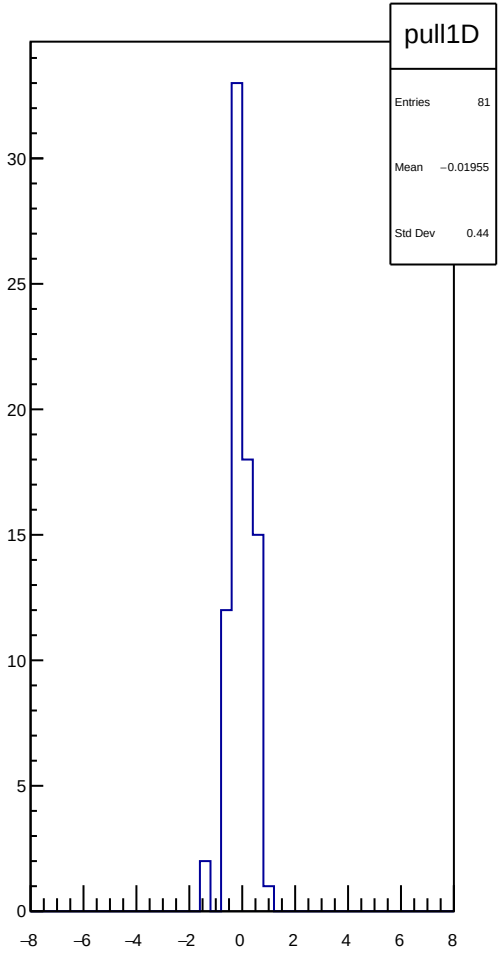

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 198.9 / 80
p0 11.21 ± 0.3081
pull
Entries 81
Mean 419.8
Std Dev 387.8
pull1D
Entries 81
Mean 0.06308
Std Dev 1.566

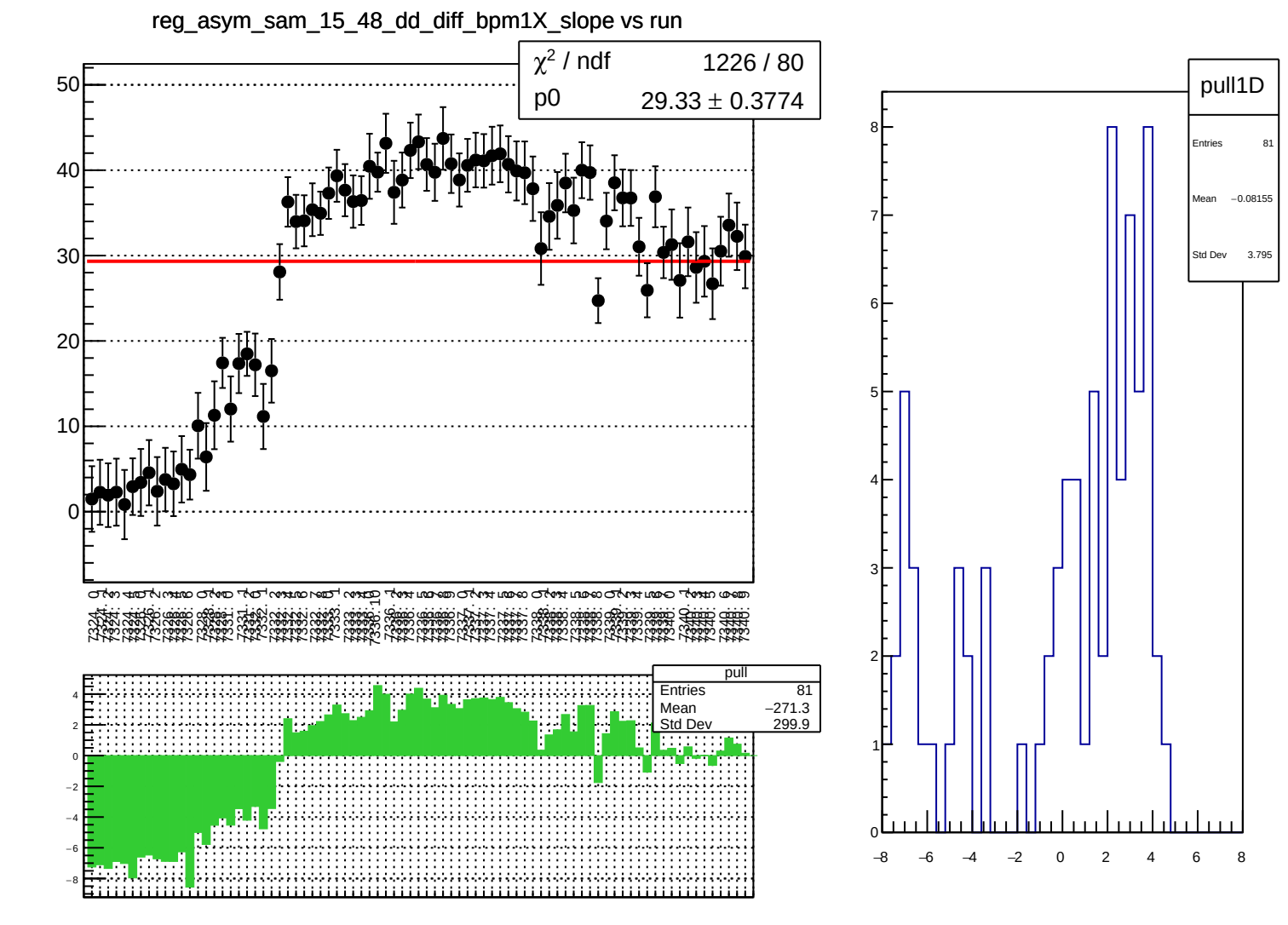

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 392.6 / 80
p0 −32.86 ± 0.3407
pull
Entries 81
Mean −37.15
Std Dev 41.48
pull1D
Entries 81
Mean −0.2148
Std Dev 2.191

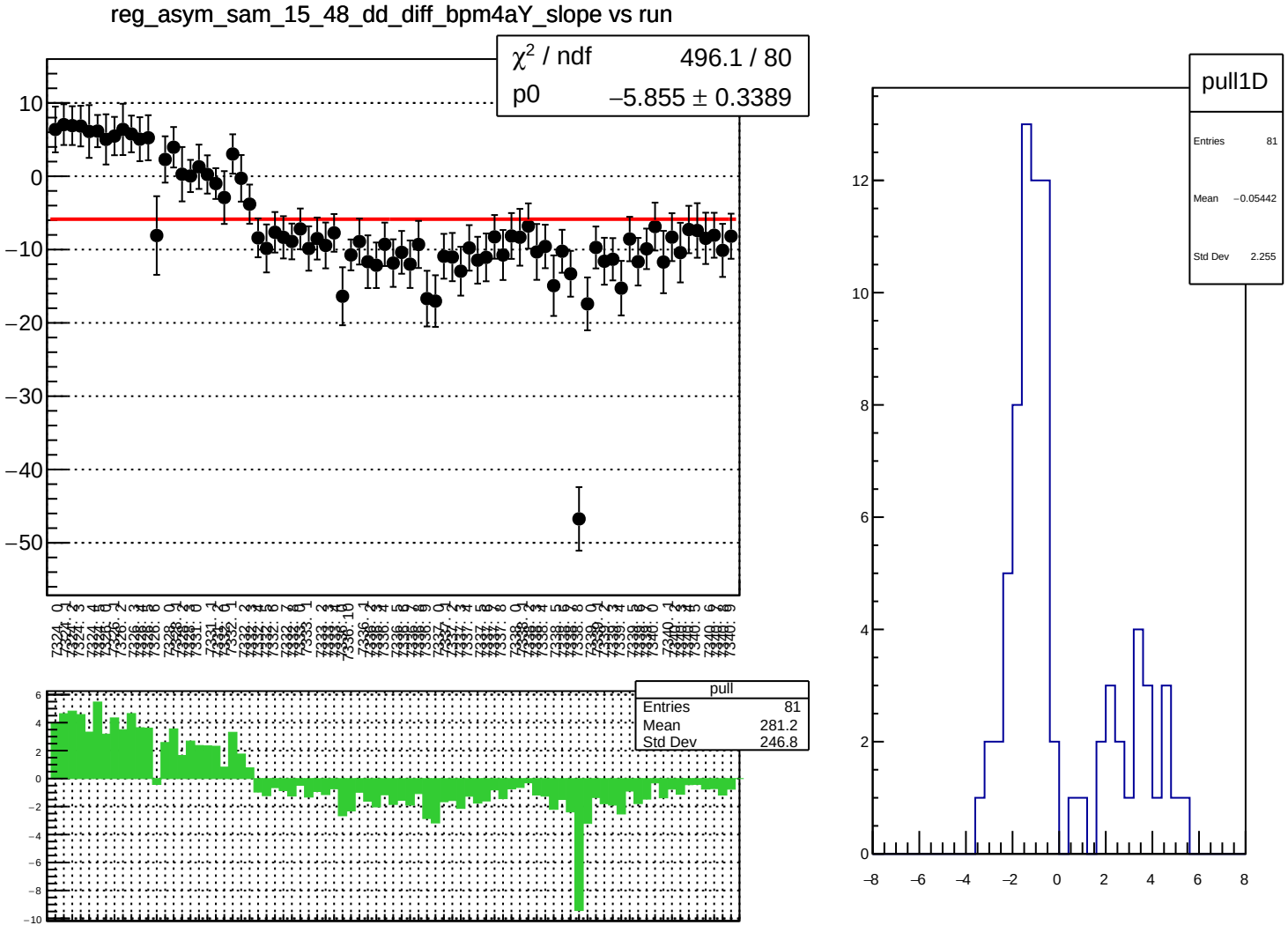

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 175.8 / 80
p0 −16.85 ± 0.3248
pull
Entries 81
Mean 446.6
Std Dev 417.7

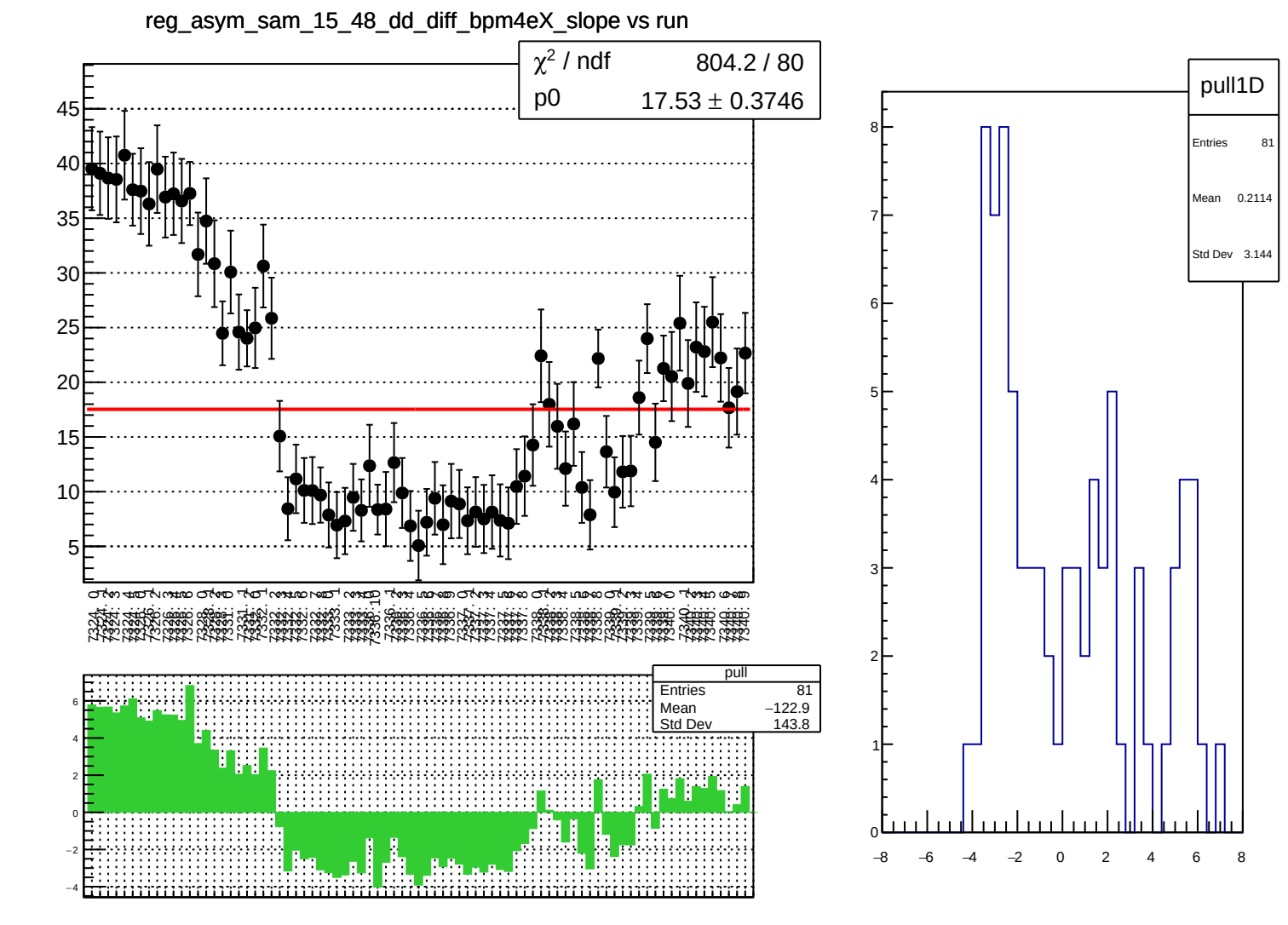

pull1D
Entries 81
Mean −0.04445
Std Dev 1.473

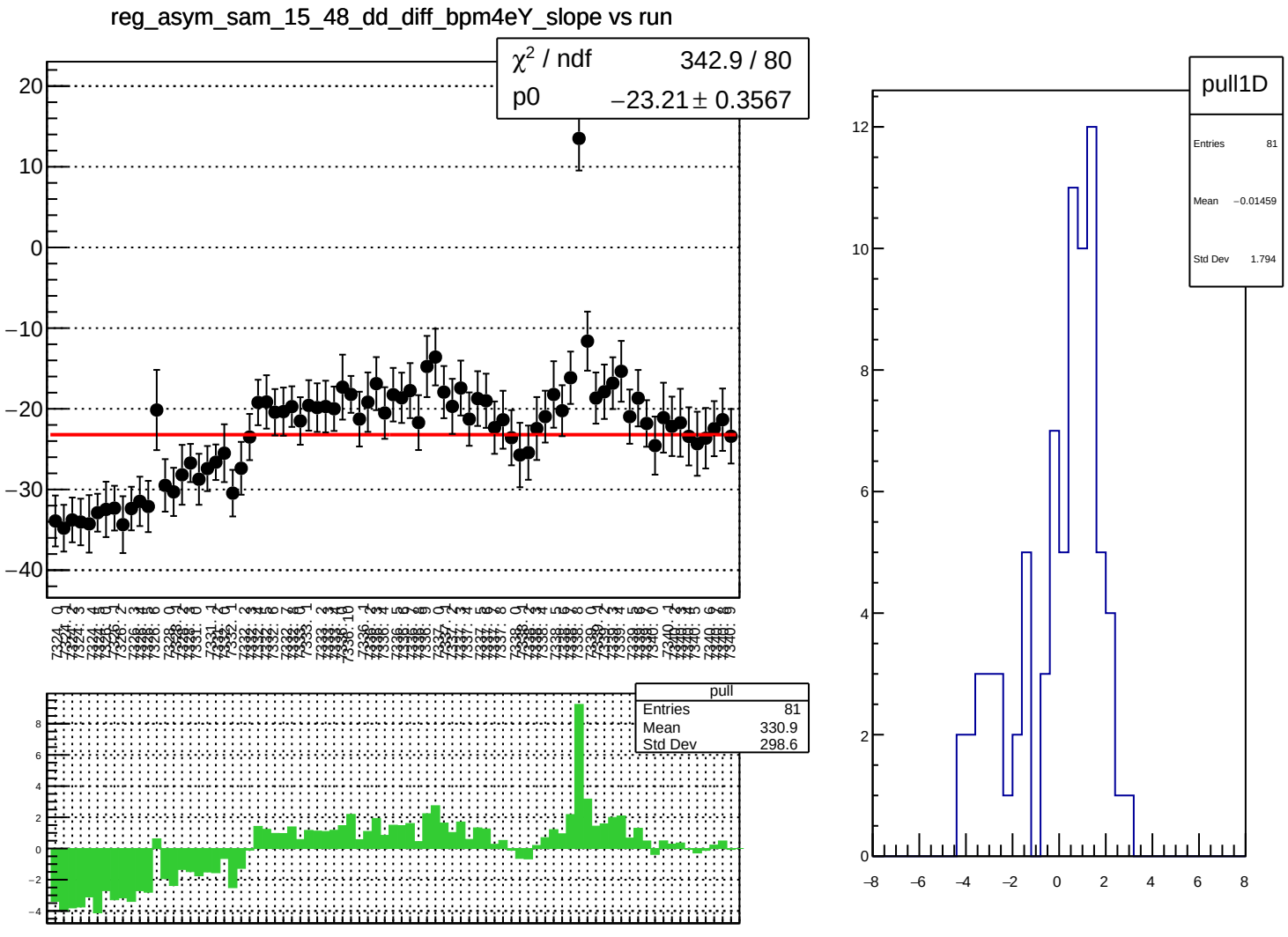

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 15.71 / 80
p0 0.334 ± 0.01604
pull
Entries 81
Mean 447.9
Std Dev 407.8

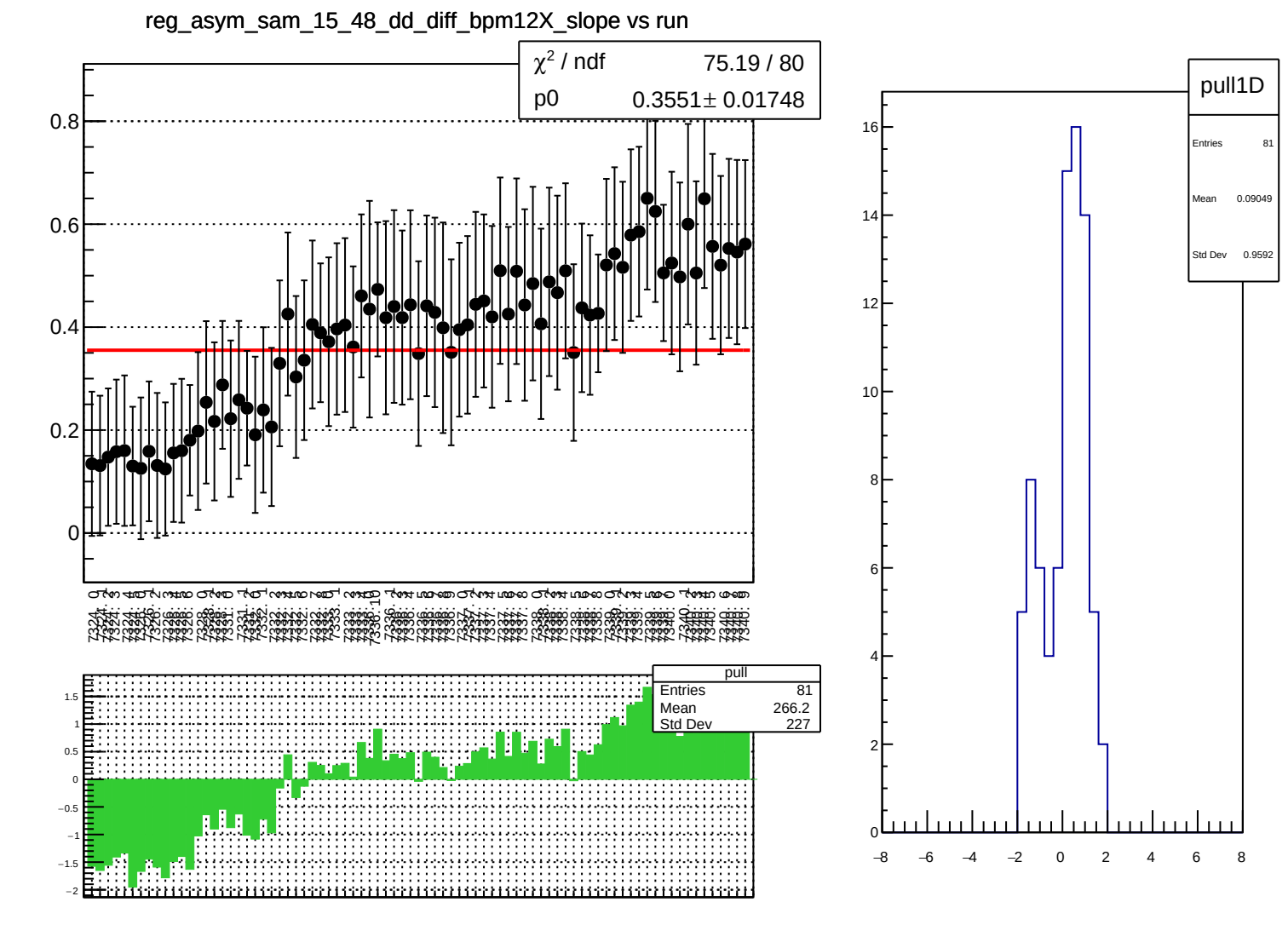

pull1D
Entries 81
Mean −0.01955
Std Dev 0.44

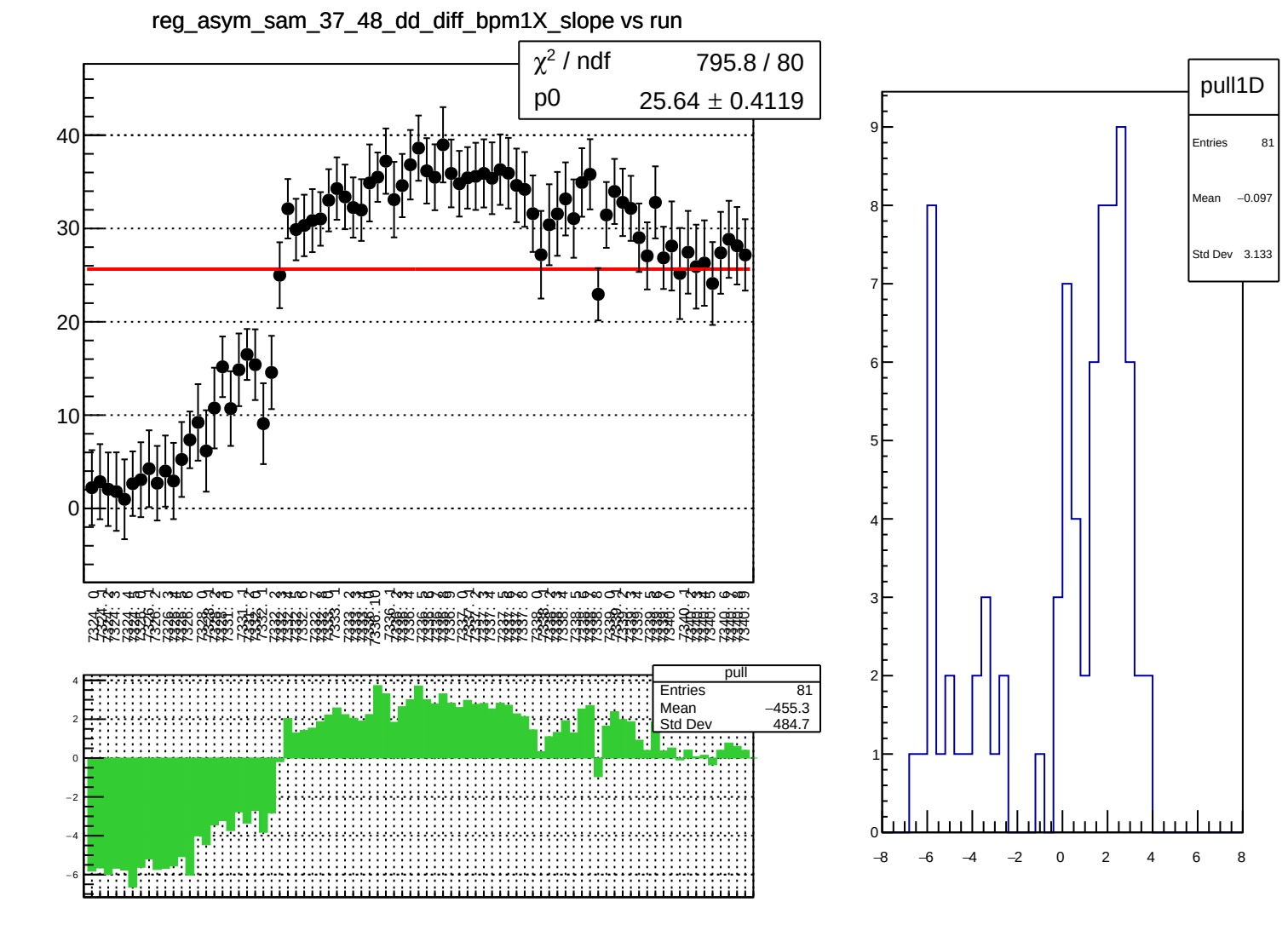

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 1226 / 80
p0 29.33 ± 0.3774
pull
Entries 81
Mean −271.3
Std Dev 299.9
pull1D
Entries 81
Mean −0.08155
Std Dev 3.795

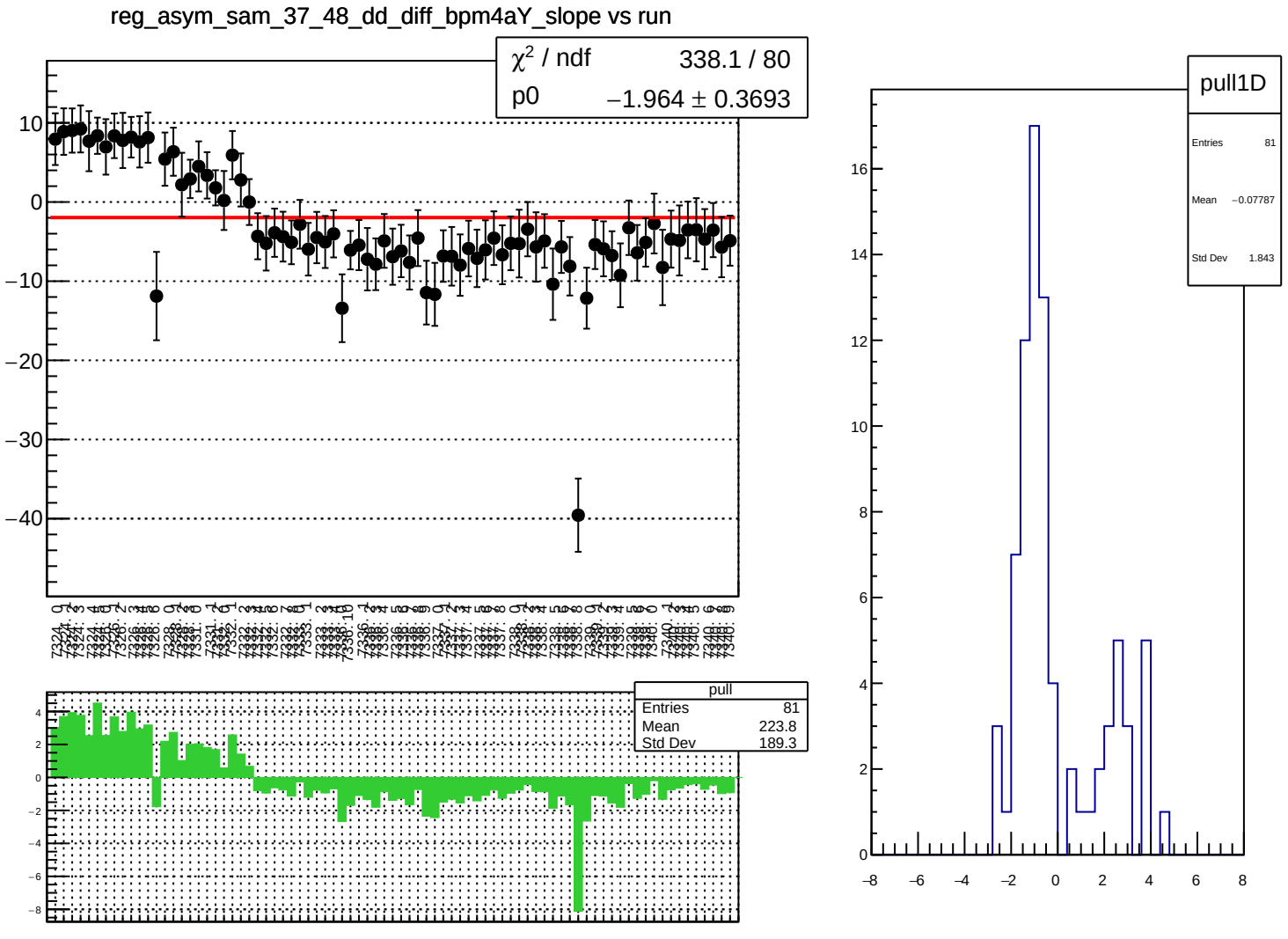

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 496.1 / 80
p0 −5.855 ± 0.3389
pull
Entries 81
Mean 281.2
Std Dev 246.8
pull1D
Entries 81
Mean −0.05442
Std Dev 2.255

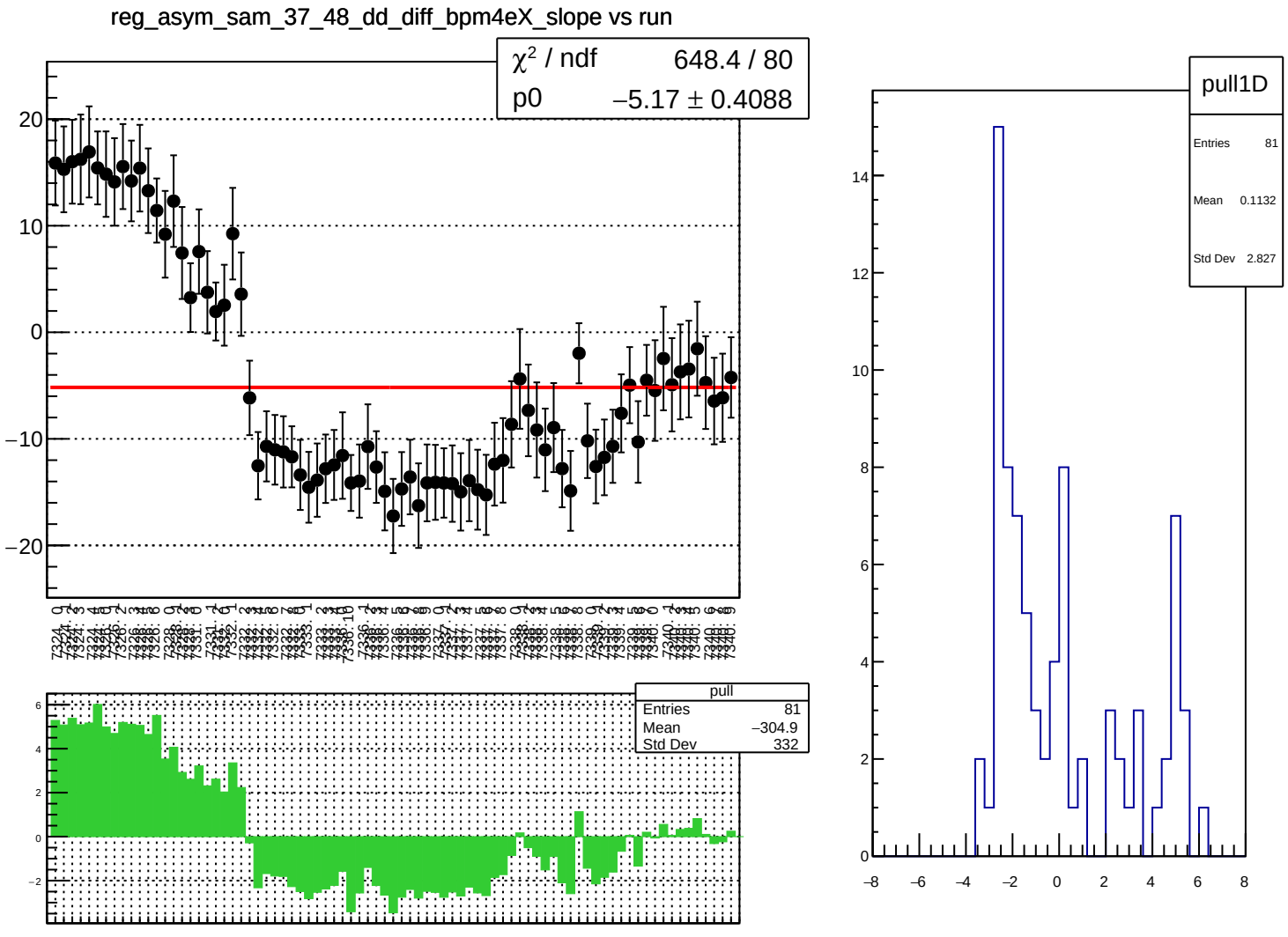

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 804.2 / 80
p0 17.53 ± 0.3746
pull
Entries 81
Mean −122.9
Std Dev 143.8
pull1D
Entries 81
Mean 0.2114
Std Dev 3.144

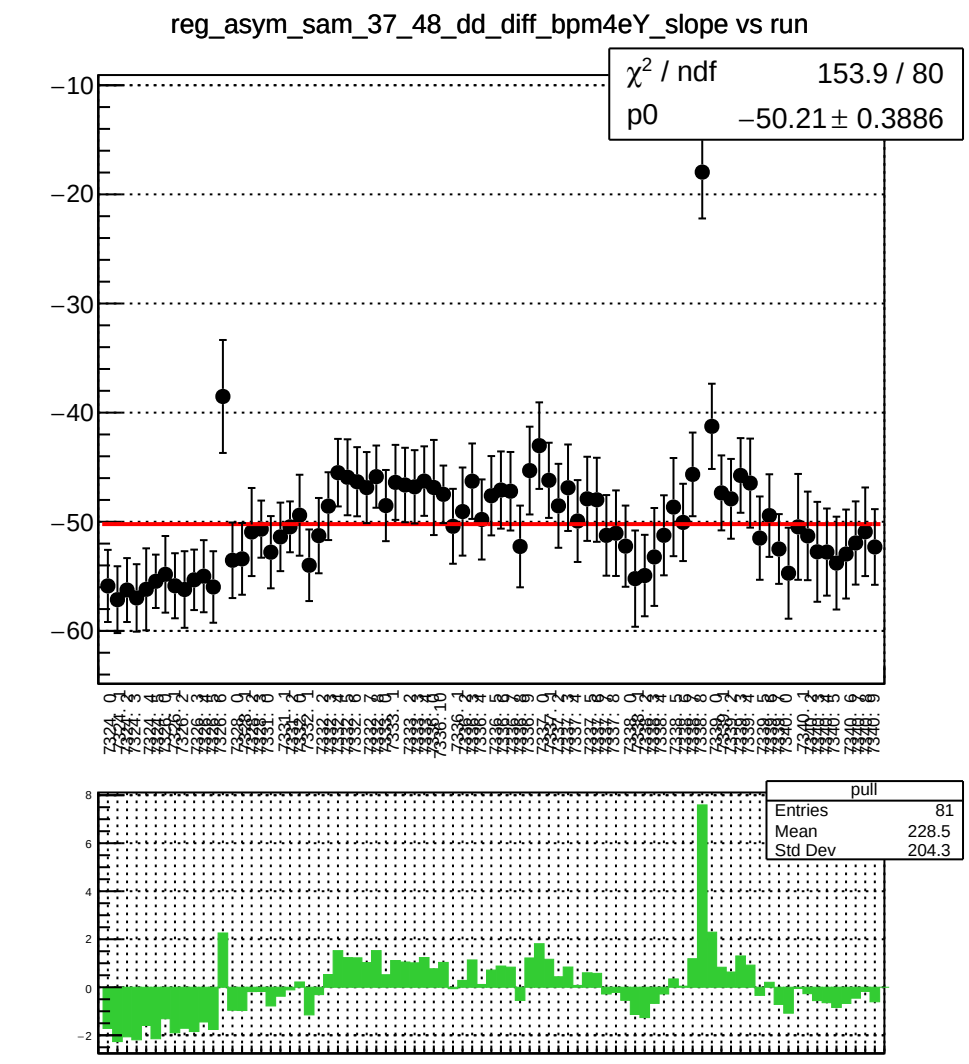

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 342.9 / 80
p0 −23.21 ± 0.3567
pull
Entries 81
Mean 330.9
Std Dev 298.6
pull1D
Entries 81
Mean −0.01459
Std Dev 1.794

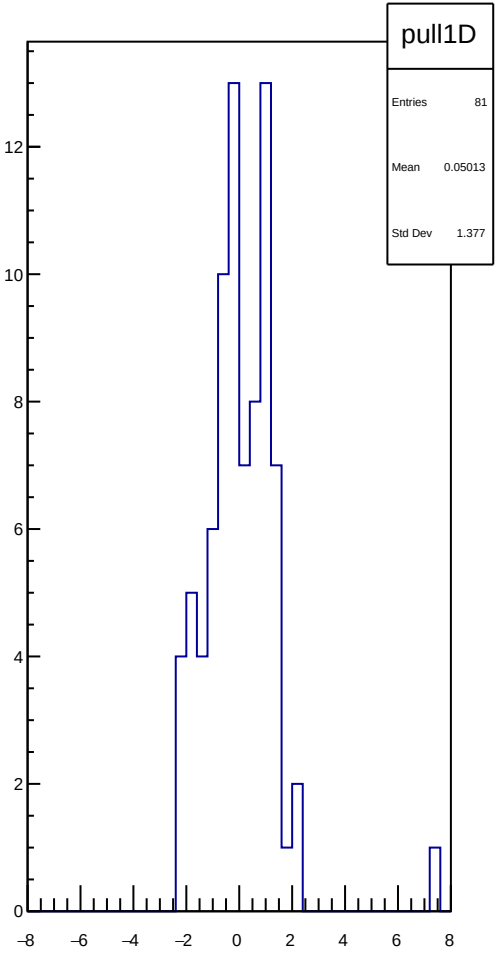

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 75.19 / 80
p0 0.3551± 0.01748
pull
Entries 81
Mean 266.2
Std Dev 227
pull1D
Entries 81
Mean 0.09049
Std Dev 0.9592

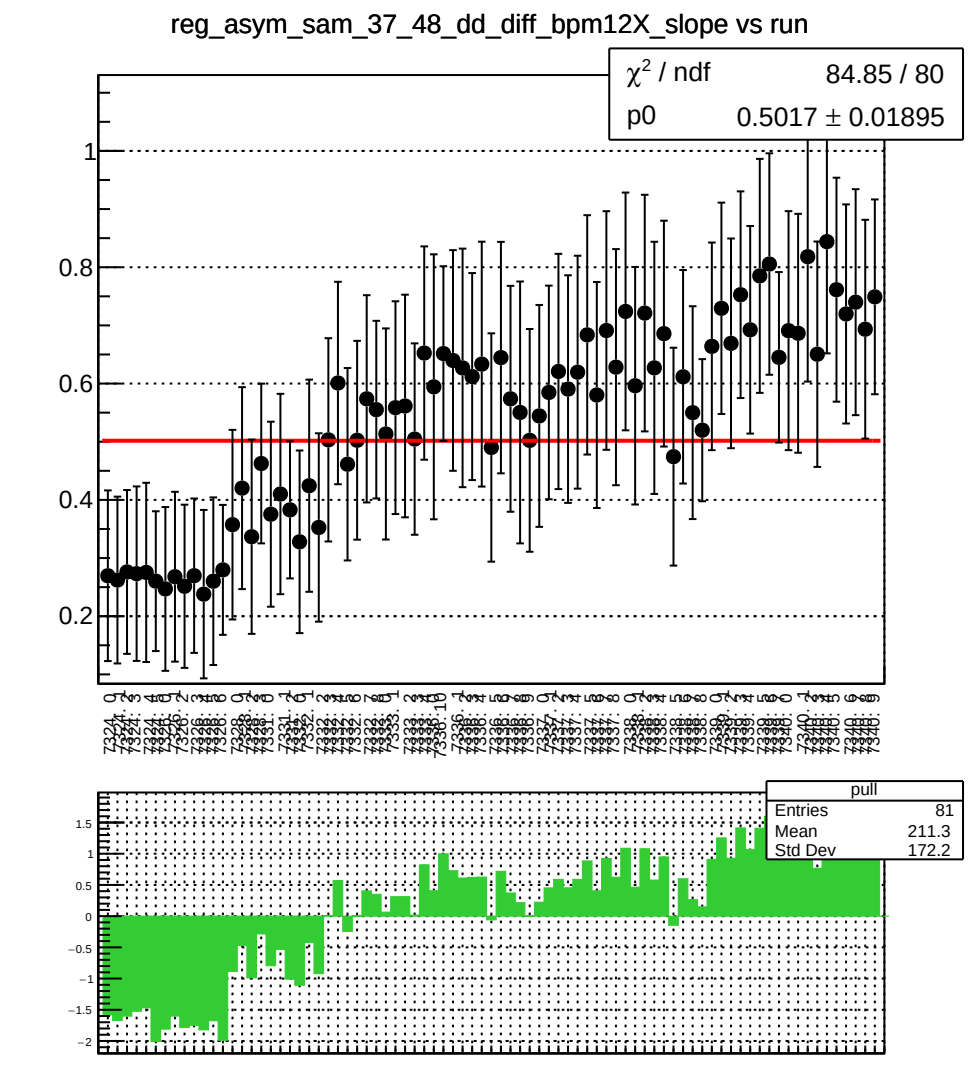

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 795.8 / 80
p0 25.64 ± 0.4119
pull
Entries 81
Mean −455.3
Std Dev 484.7
pull1D
Entries 81
Mean −0.097
Std Dev 3.133

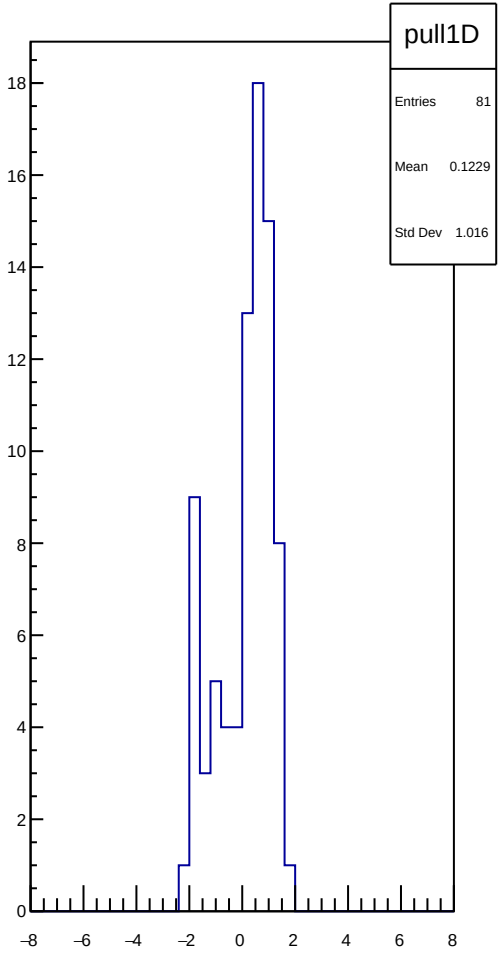

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 338.1 / 80
p0 −1.964 ± 0.3693
pull
Entries 81
Mean 223.8
Std Dev 189.3
pull1D
Entries 81
Mean −0.07787
Std Dev 1.843

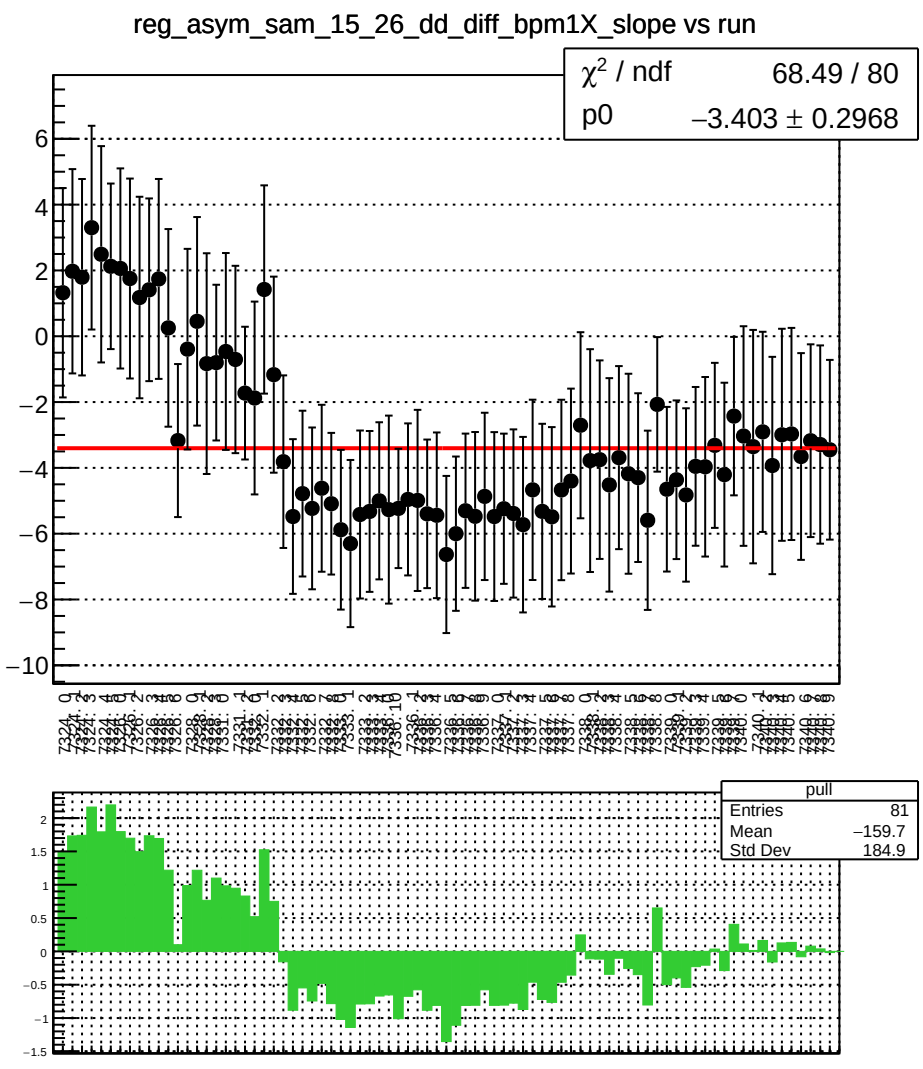

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 648.4 / 80
p0 −5.17 ± 0.4088
pull
Entries 81
Mean −304.9
Std Dev 332
pull1D
Entries 81
Mean 0.1132
Std Dev 2.827

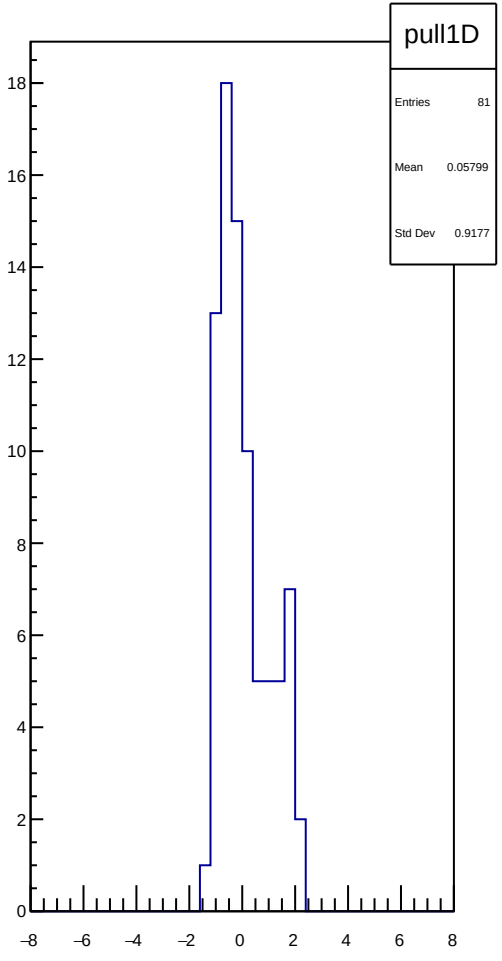

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 153.9 / 80
p0 −50.21 ± 0.3886
pull
Entries 81
Mean 228.5
Std Dev 204.3

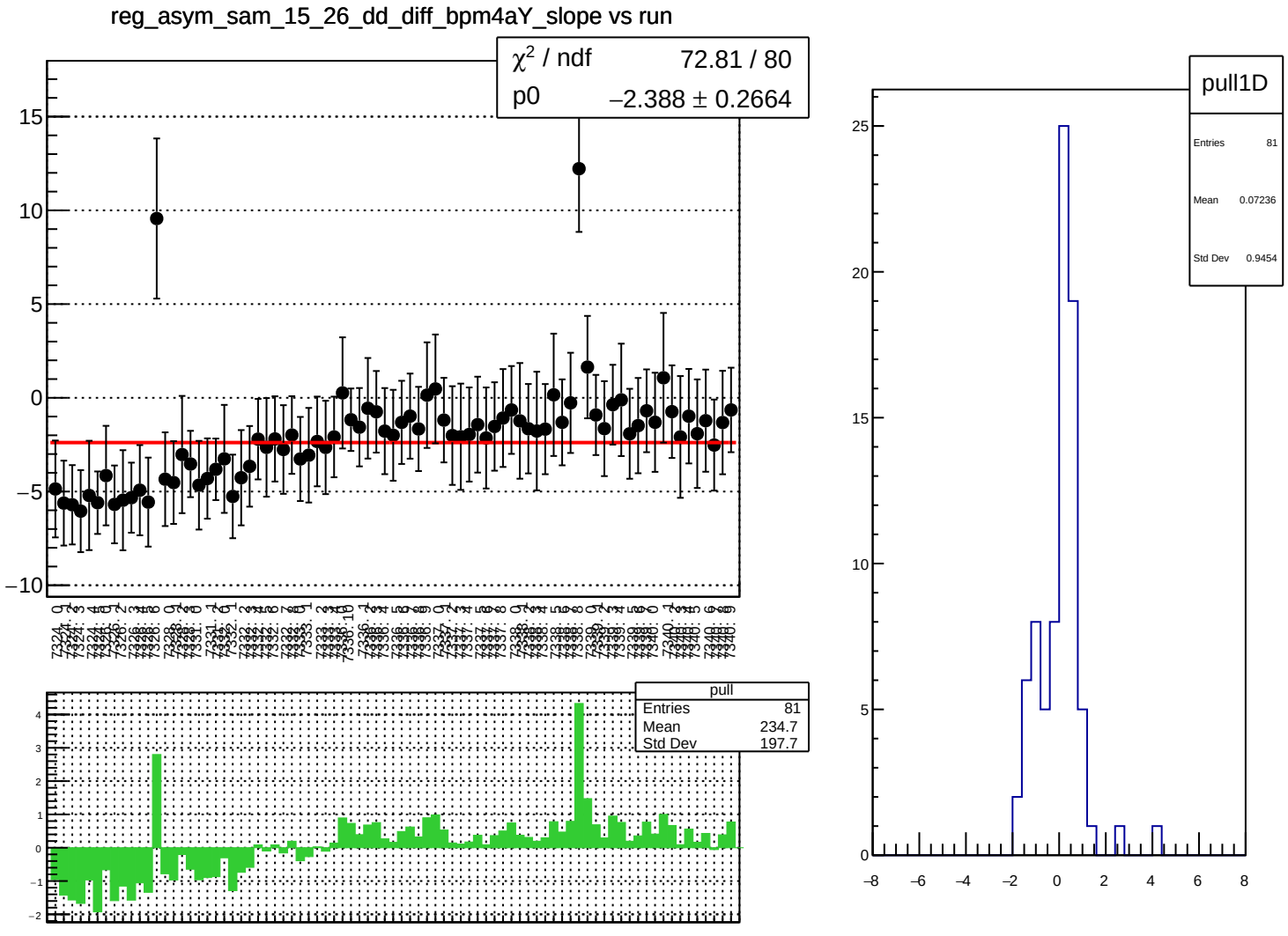

pull1D
Entries 81
Mean 0.05013
Std Dev 1.377

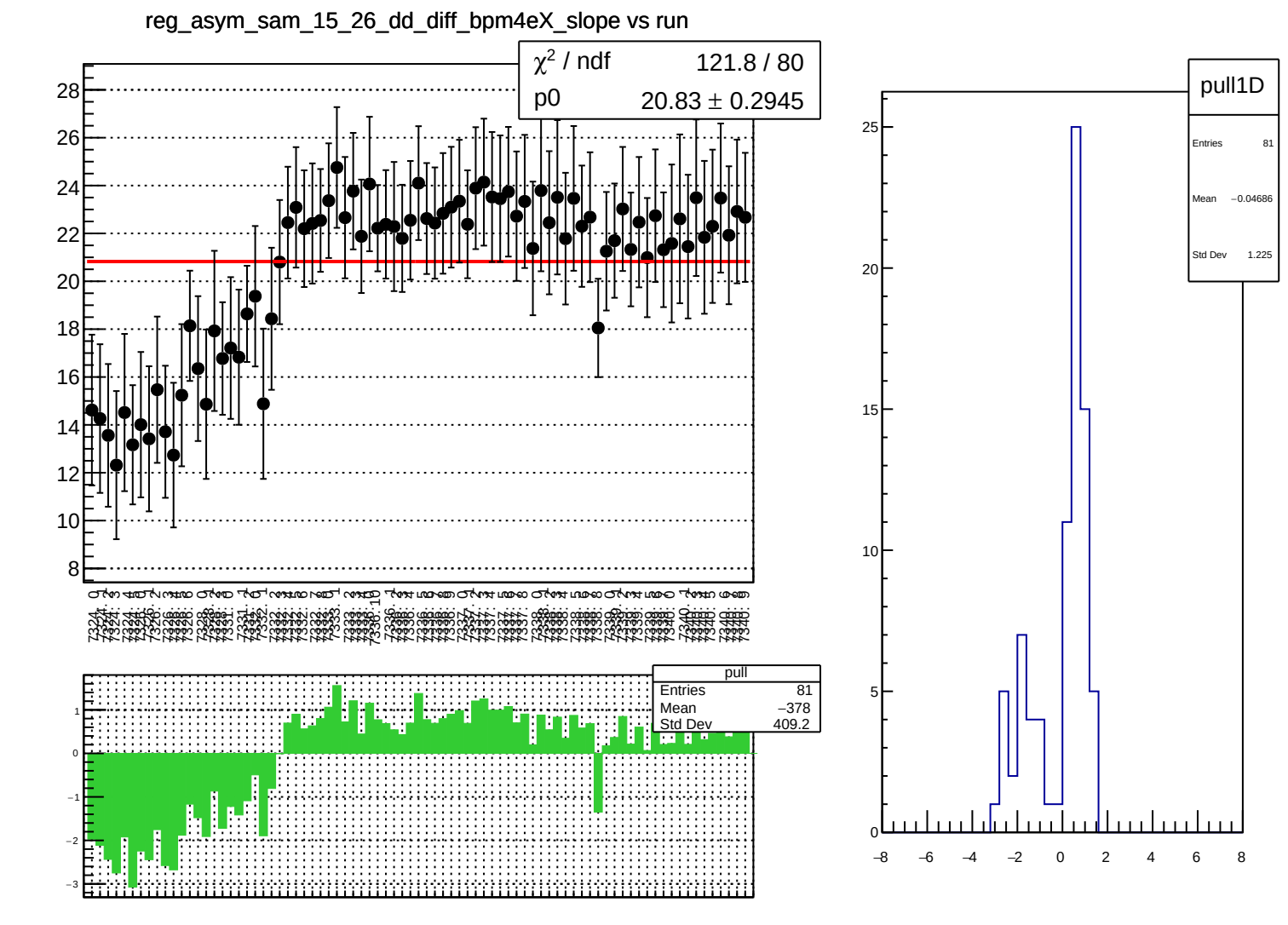

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 84.85 / 80
p0 0.5017 ± 0.01895
pull
Entries 81
Mean 211.3
Std Dev 172.2

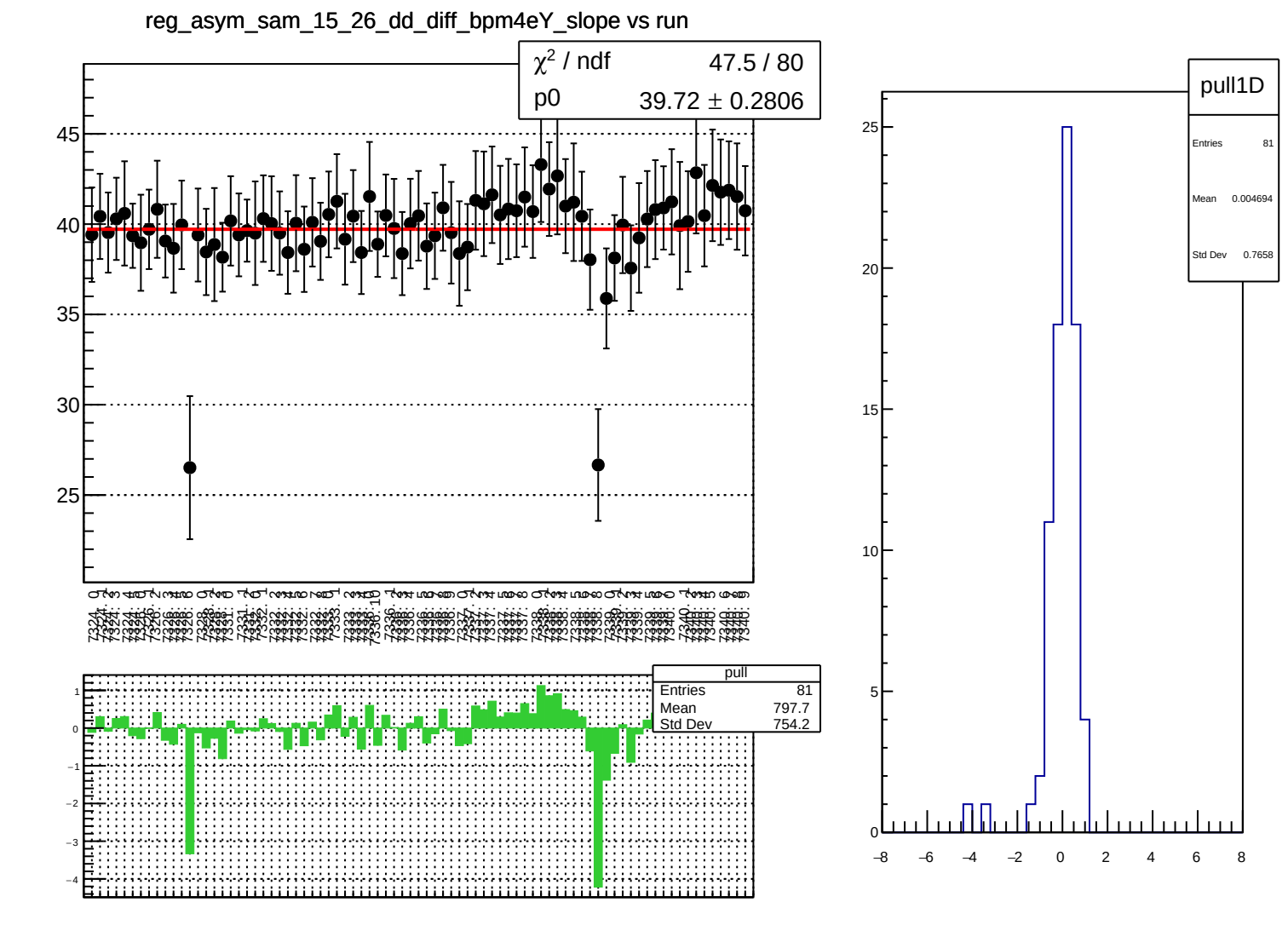

pull1D
Entries 81
Mean 0.1229
Std Dev 1.016

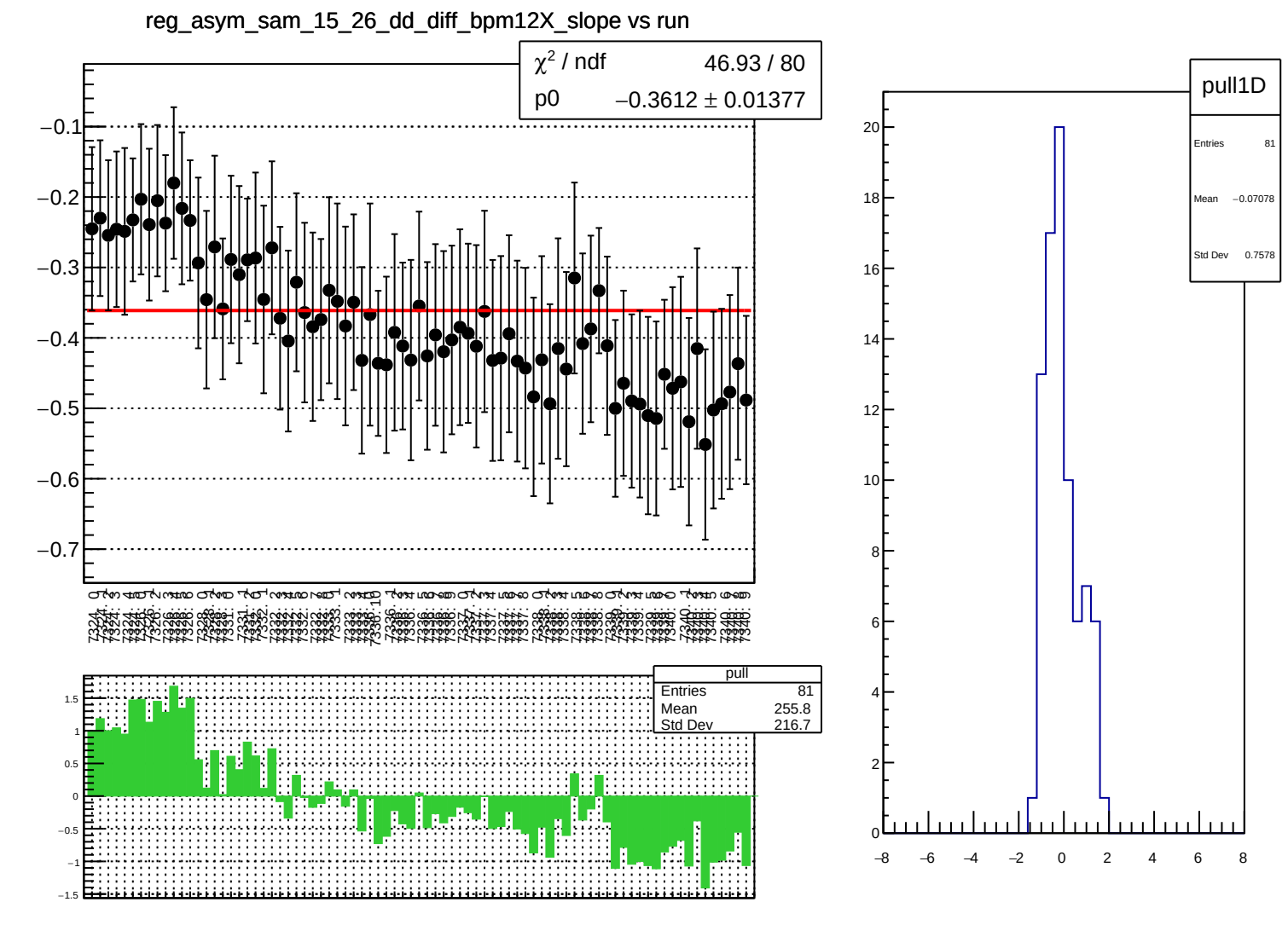

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 68.49 / 80
p0 −3.403 ± 0.2968
pull
Entries 81
Mean −159.7
Std Dev 184.9

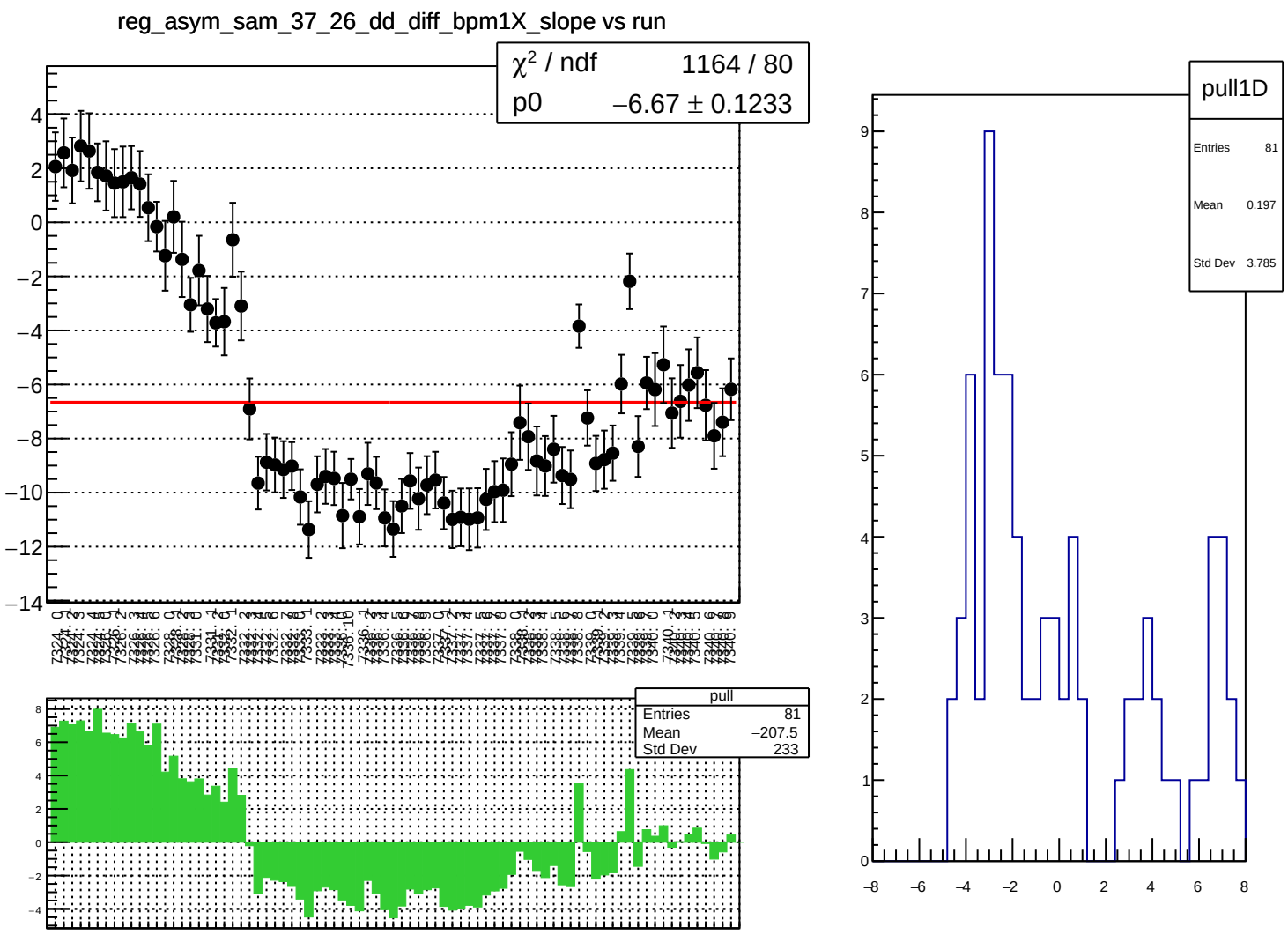

pull1D
Entries 81
Mean 0.05799
Std Dev 0.9177

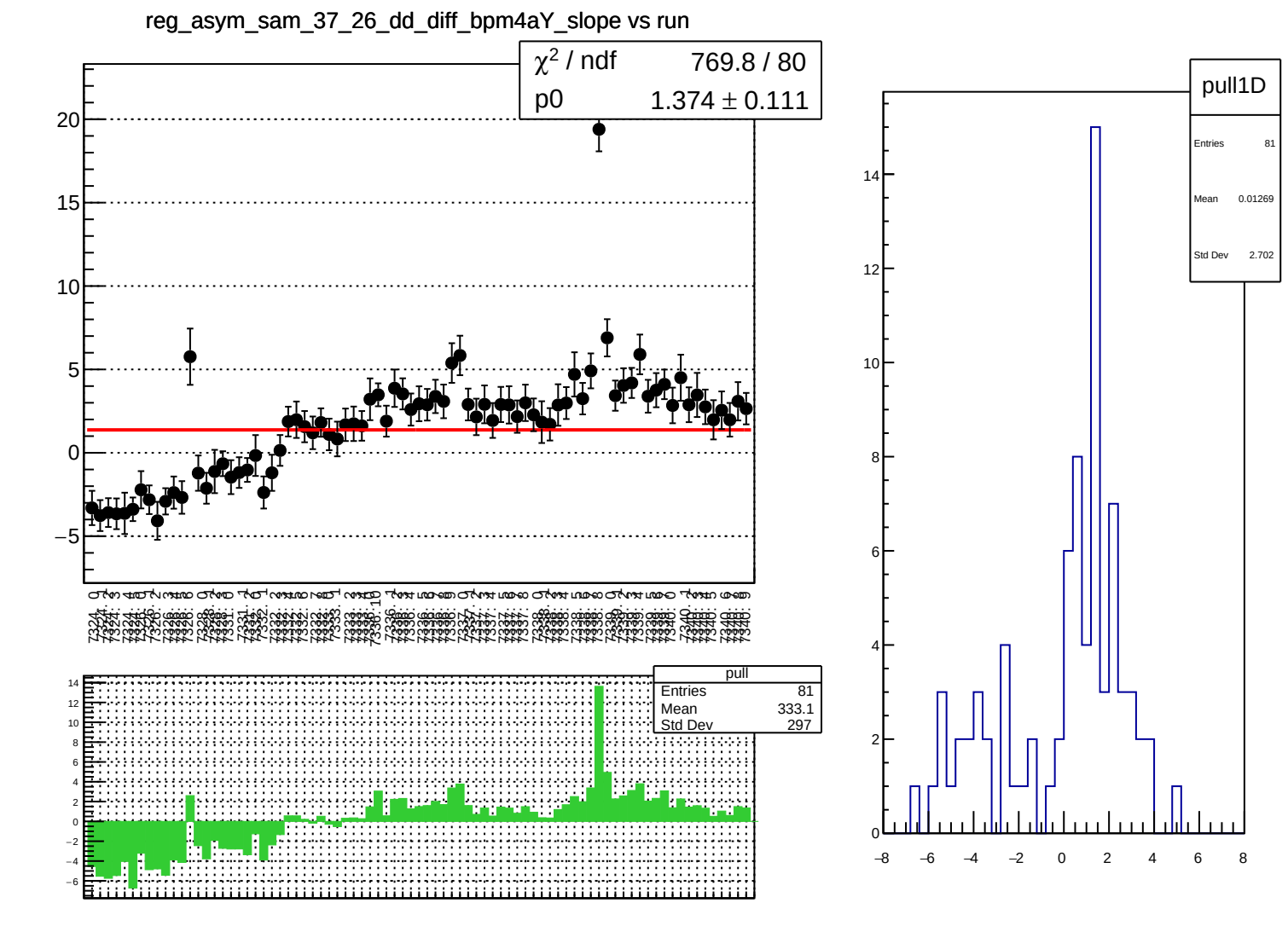

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 72.81 / 80
p0 −2.388 ± 0.2664
pull
Entries 81
Mean 234.7
Std Dev 197.7
pull1D
Entries 81
Mean 0.07236
Std Dev 0.9454

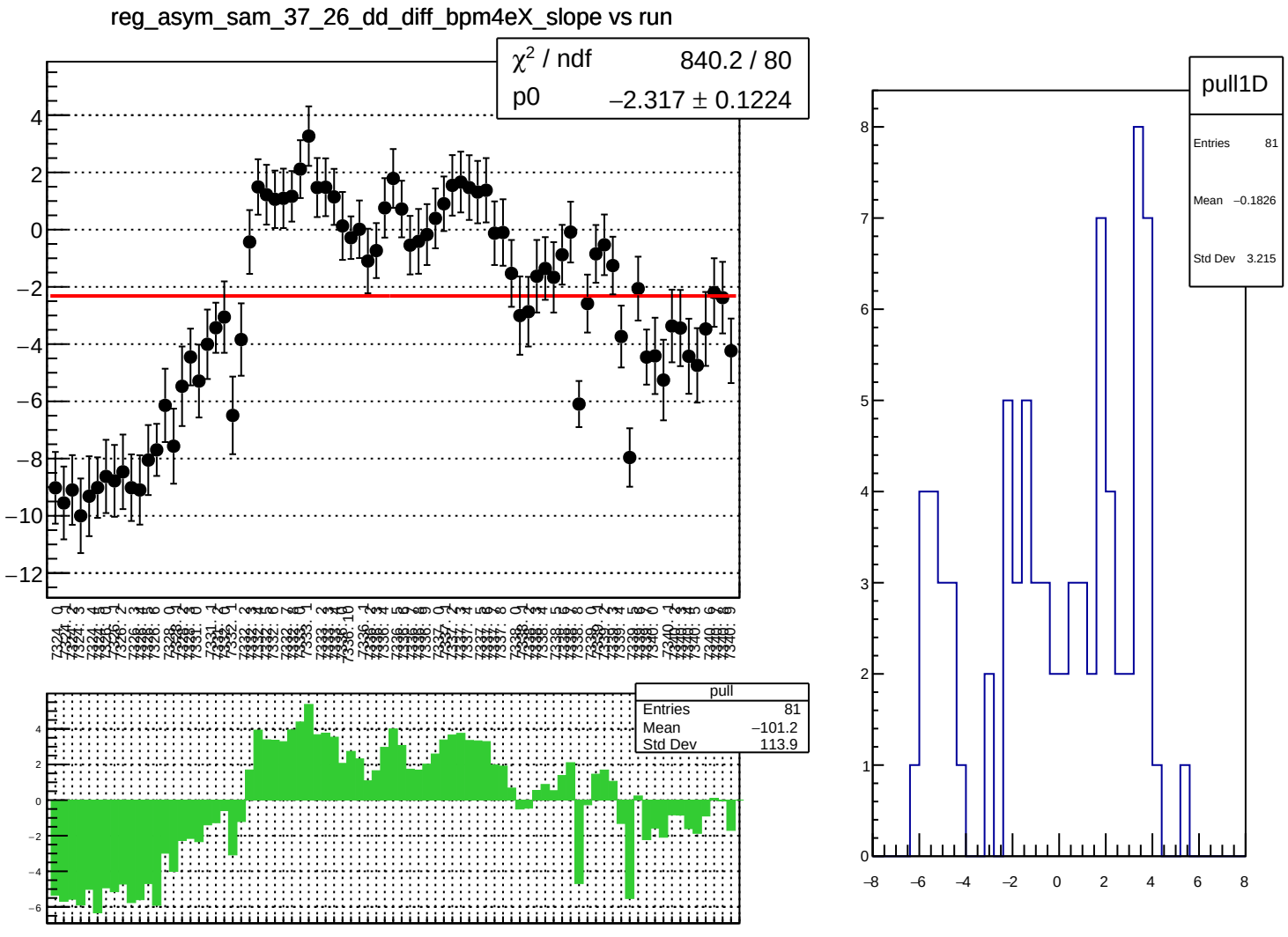

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 121.8 / 80
p0 20.83 ± 0.2945
pull
Entries 81
Mean −378
Std Dev 409.2
pull1D
Entries 81
Mean −0.04686
Std Dev 1.225

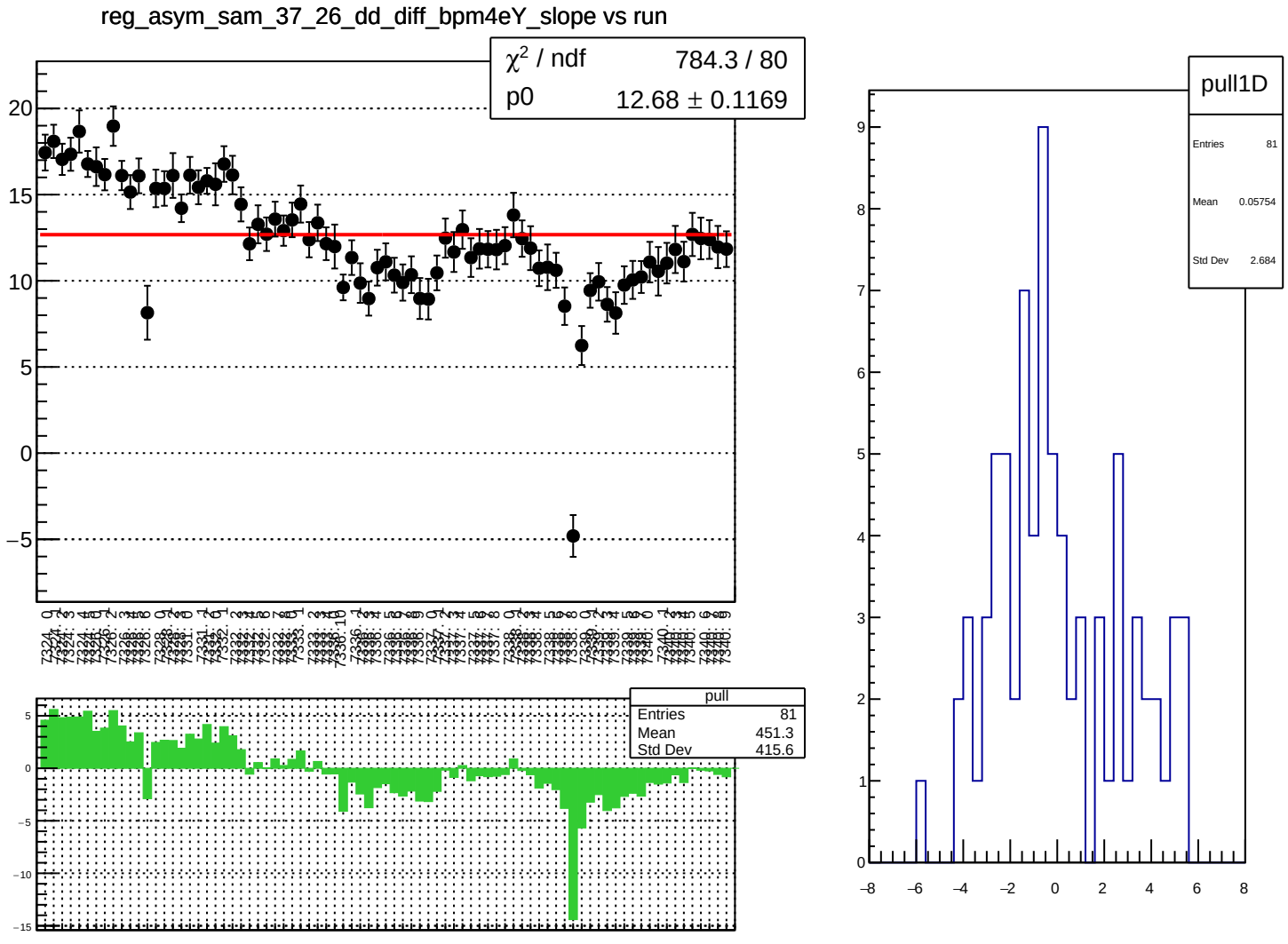

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 47.5 / 80
p0 39.72 ± 0.2806
pull
Entries 81
Mean 797.7
Std Dev 754.2
pull1D
Entries 81
Mean 0.004694
Std Dev 0.7658

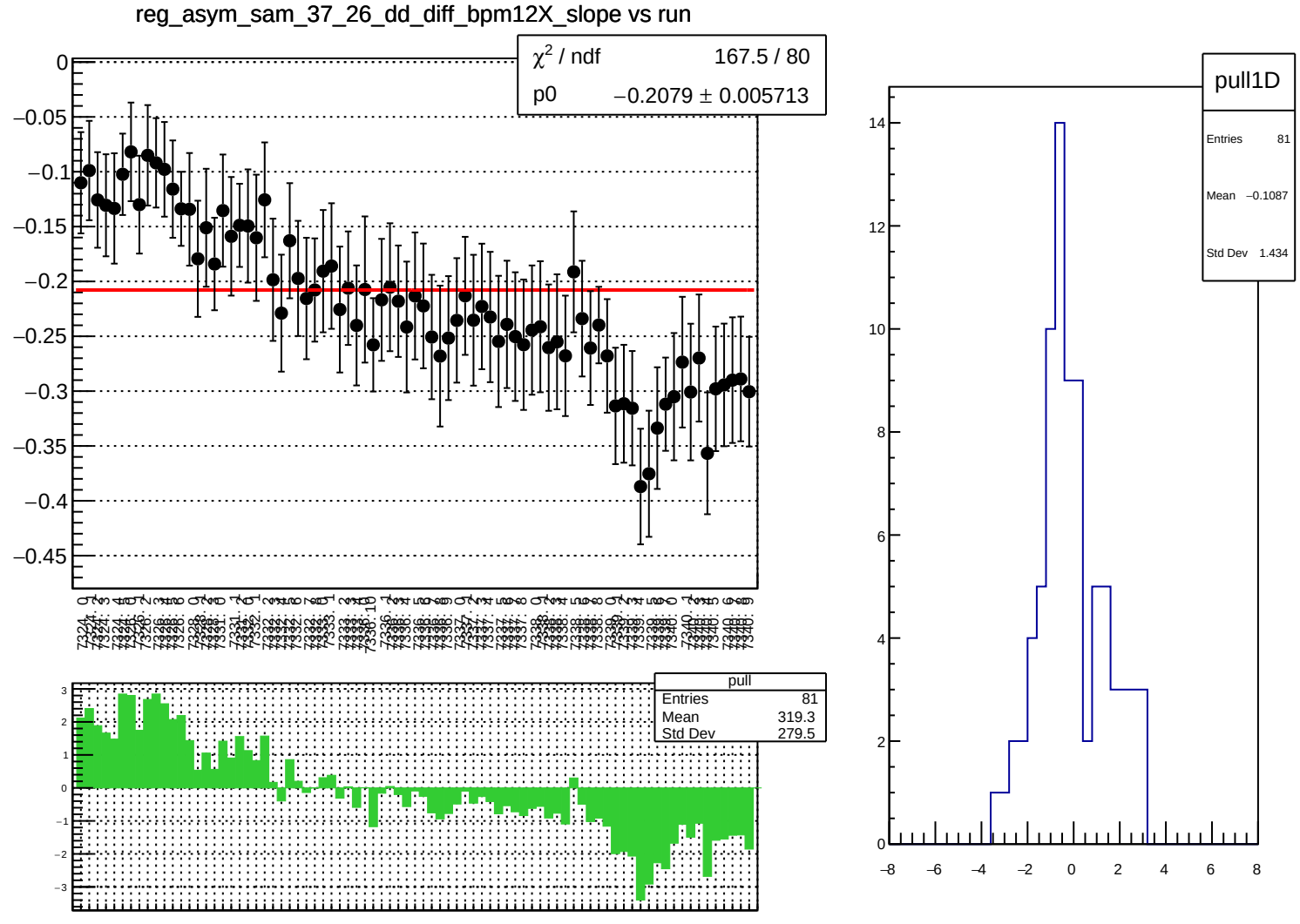

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 46.93 / 80
p0 −0.3612 ± 0.01377
pull
Entries 81
Mean 255.8
Std Dev 216.7
pull1D
Entries 81
Mean −0.07078
Std Dev 0.7578

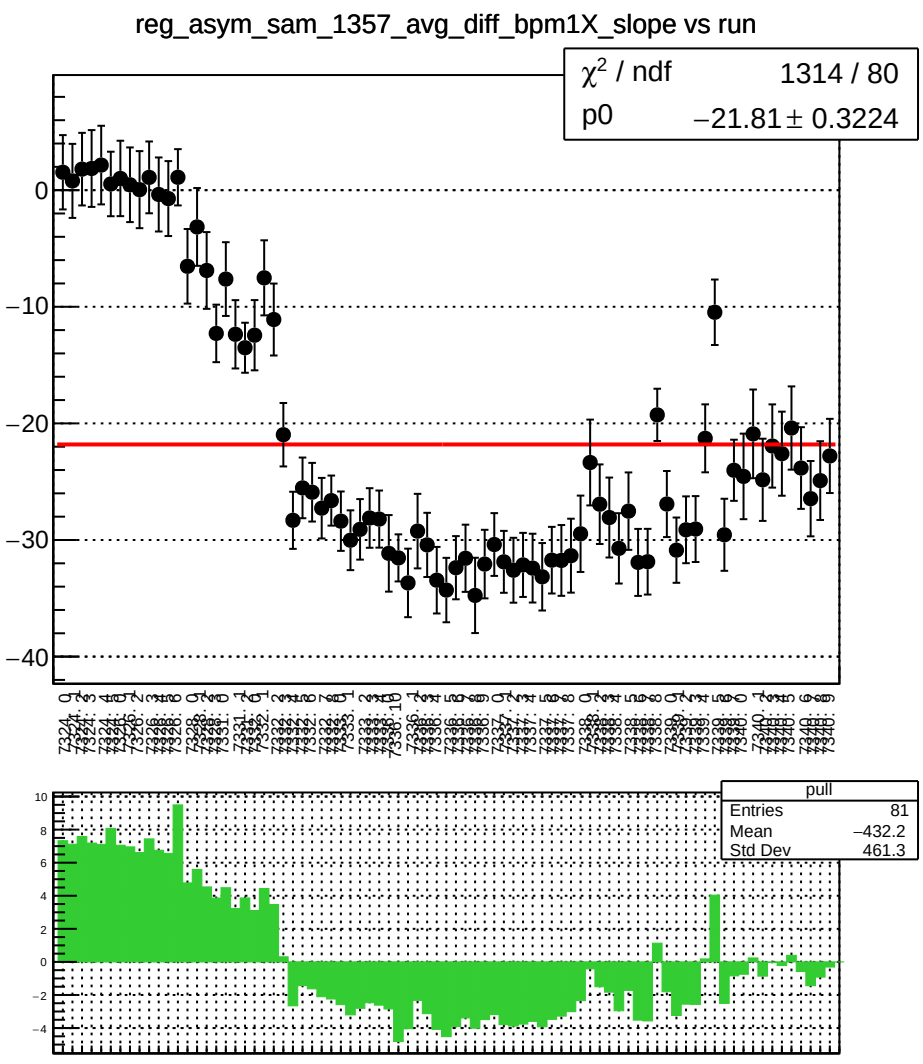

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 1164 / 80
p0 −6.67 ± 0.1233
pull
Entries 81
Mean −207.5
Std Dev 233
pull1D
Entries 81
Mean 0.197
Std Dev 3.785

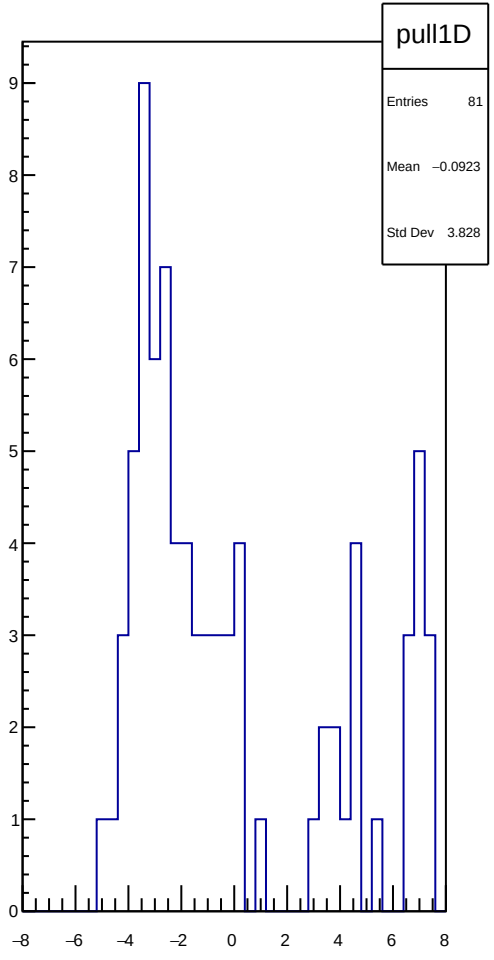

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 769.8 / 80
p0 1.374 ± 0.111
pull
Entries 81
Mean 333.1
Std Dev 297
pull1D
Entries 81
Mean 0.01269
Std Dev 2.702

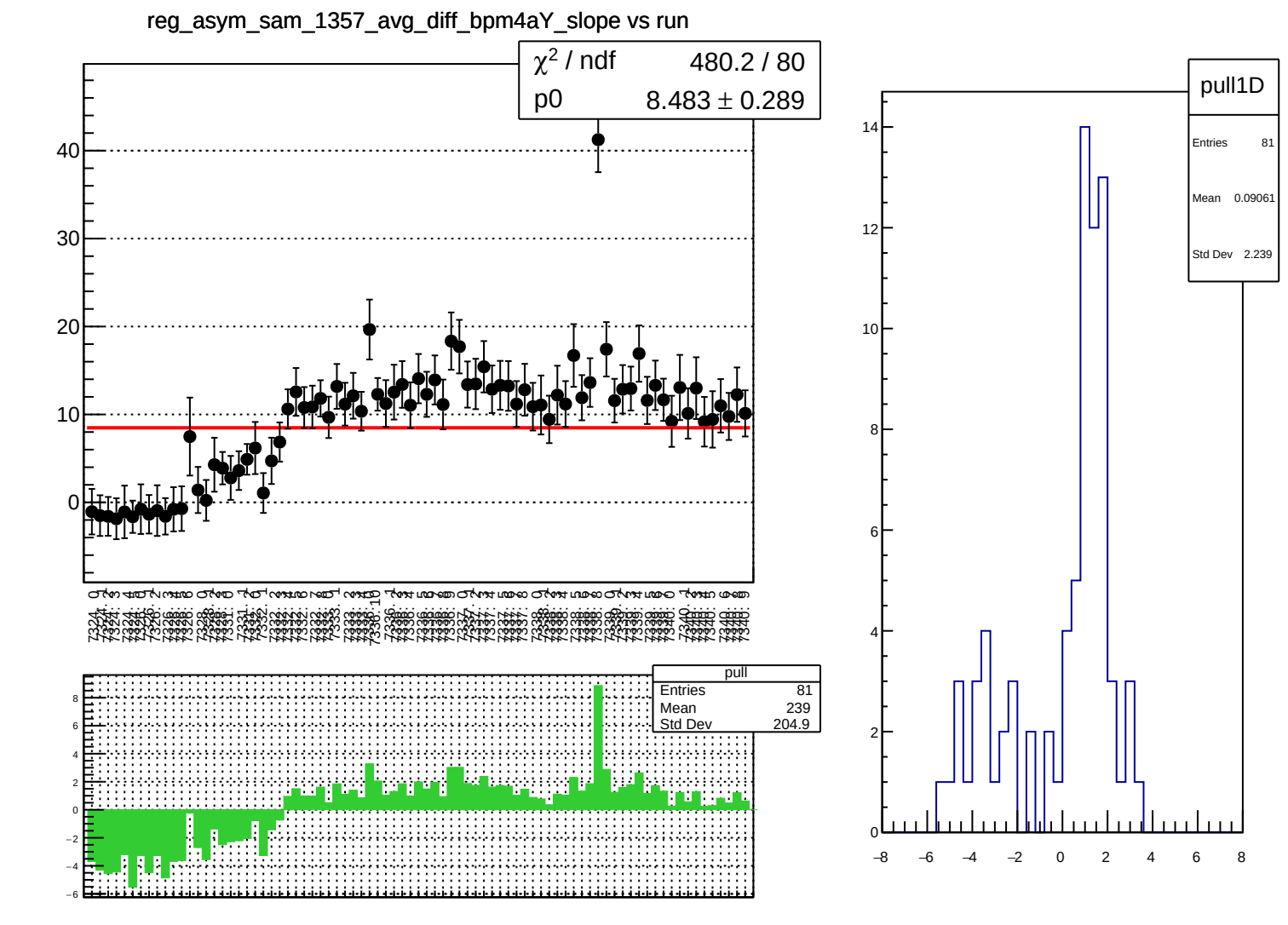

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 840.2 / 80
p0 −2.317 ± 0.1224
pull
Entries 81
Mean −101.2
Std Dev 113.9
pull1D
Entries 81
Mean −0.1826
Std Dev 3.215

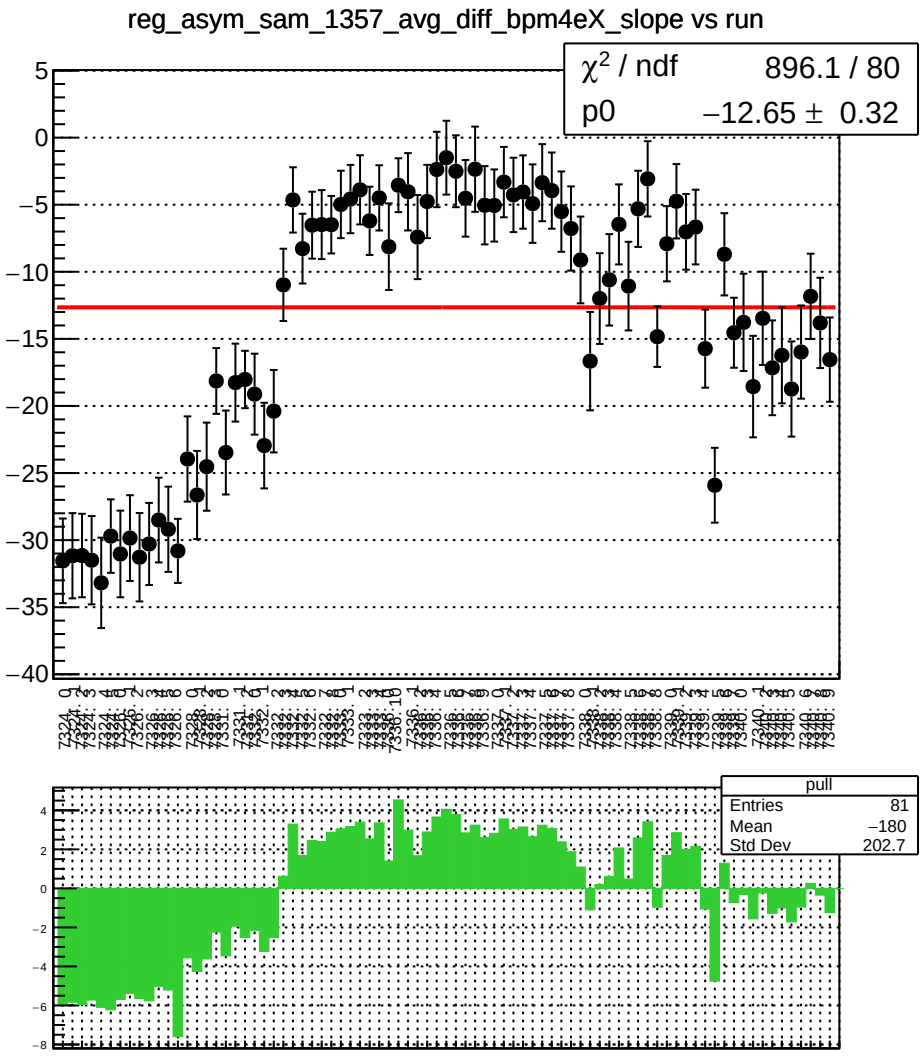

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 784.3 / 80
p0 12.68 ± 0.1169
pull
Entries 81
Mean 451.3
Std Dev 415.6
pull1D
Entries 81
Mean 0.05754
Std Dev 2.684

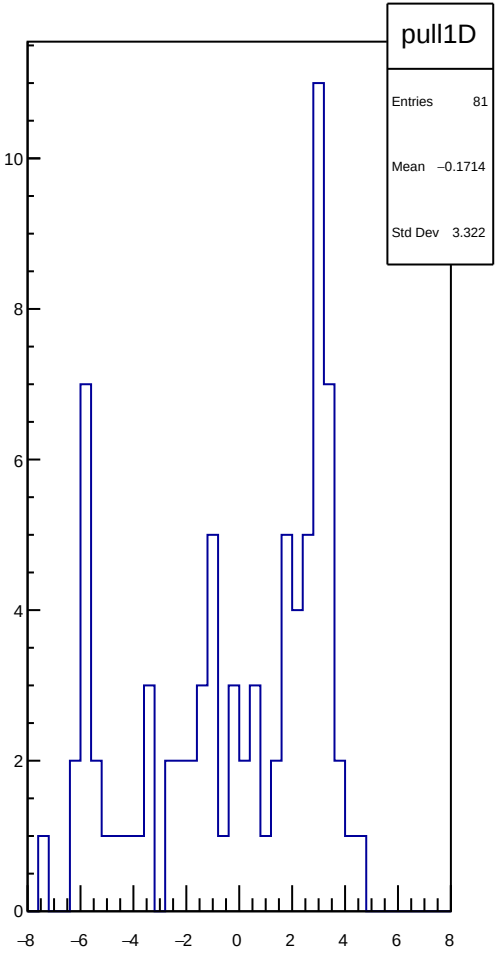

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 167.5 / 80
p0 −0.2079 ± 0.005713
pull
Entries 81
Mean 319.3
Std Dev 279.5
pull1D
Entries 81
Mean −0.1087
Std Dev 1.434

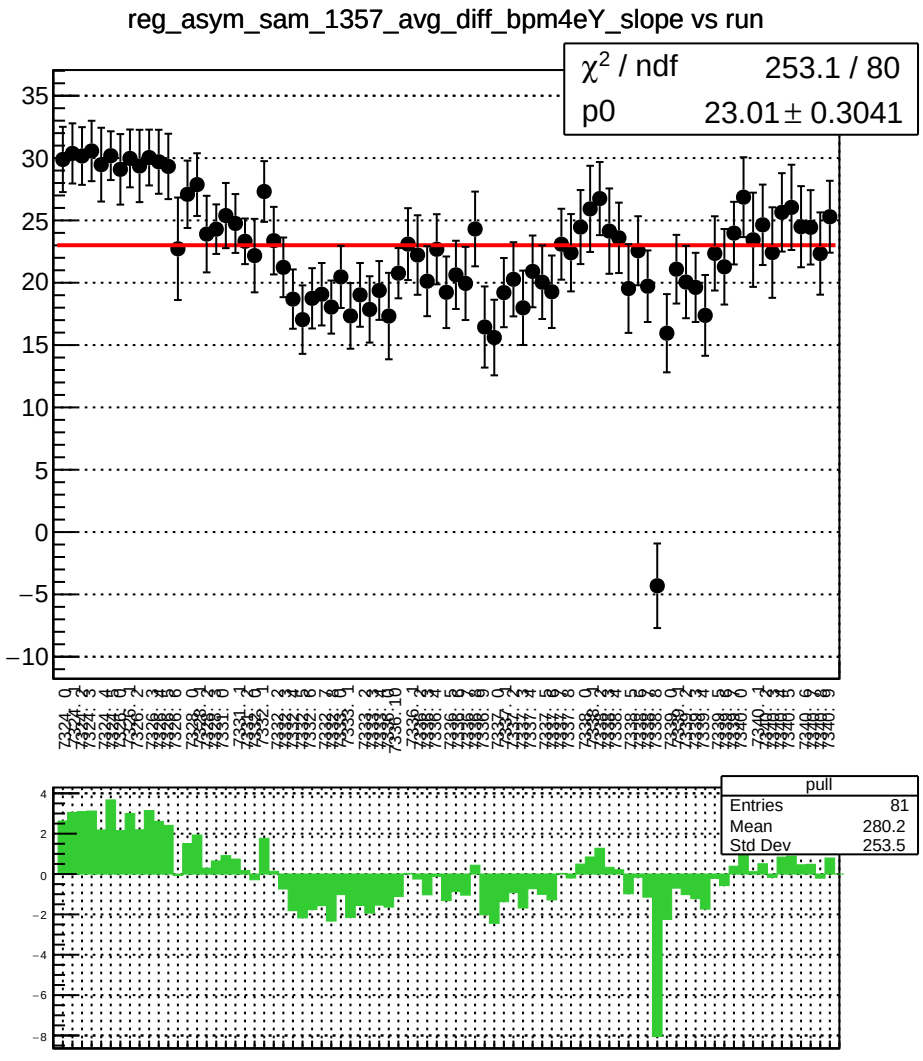

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 1314 / 80
p0 −21.81 ± 0.3224
pull
Entries 81
Mean −432.2
Std Dev 461.3

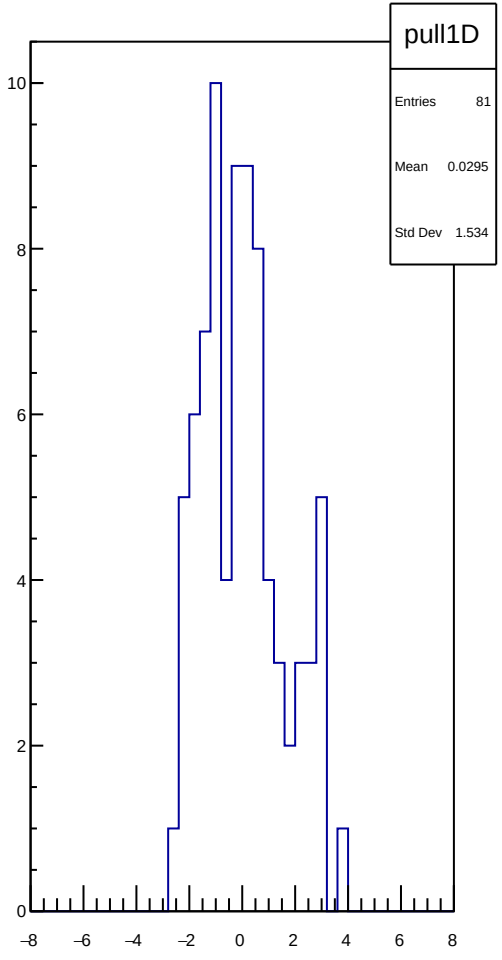

pull1D
Entries 81
Mean −0.0923
Std Dev 3.828

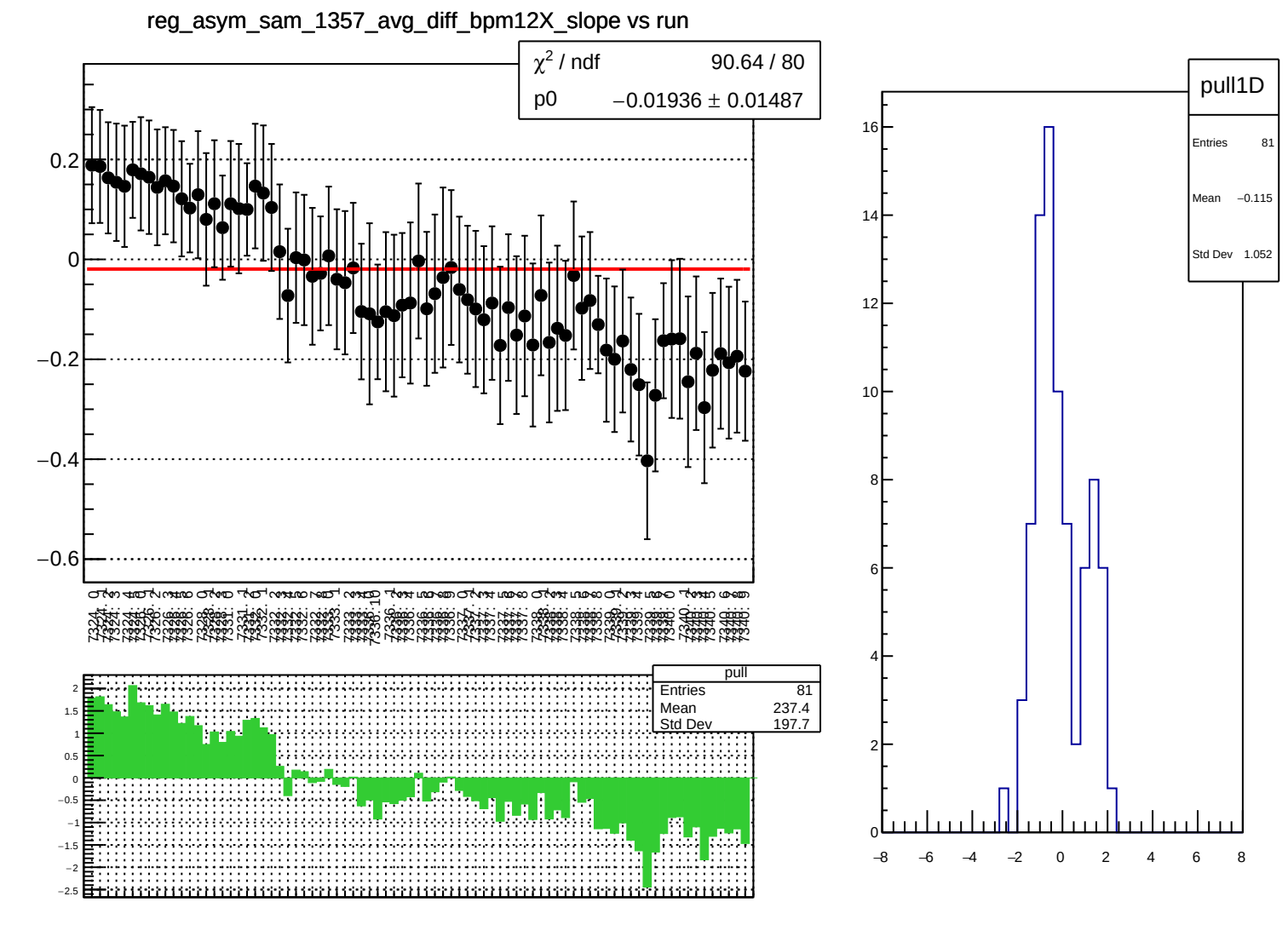

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 480.2 / 80
p0 8.483 ± 0.289
pull
Entries 81
Mean 239
Std Dev 204.9
pull1D
Entries 81
Mean 0.09061
Std Dev 2.239

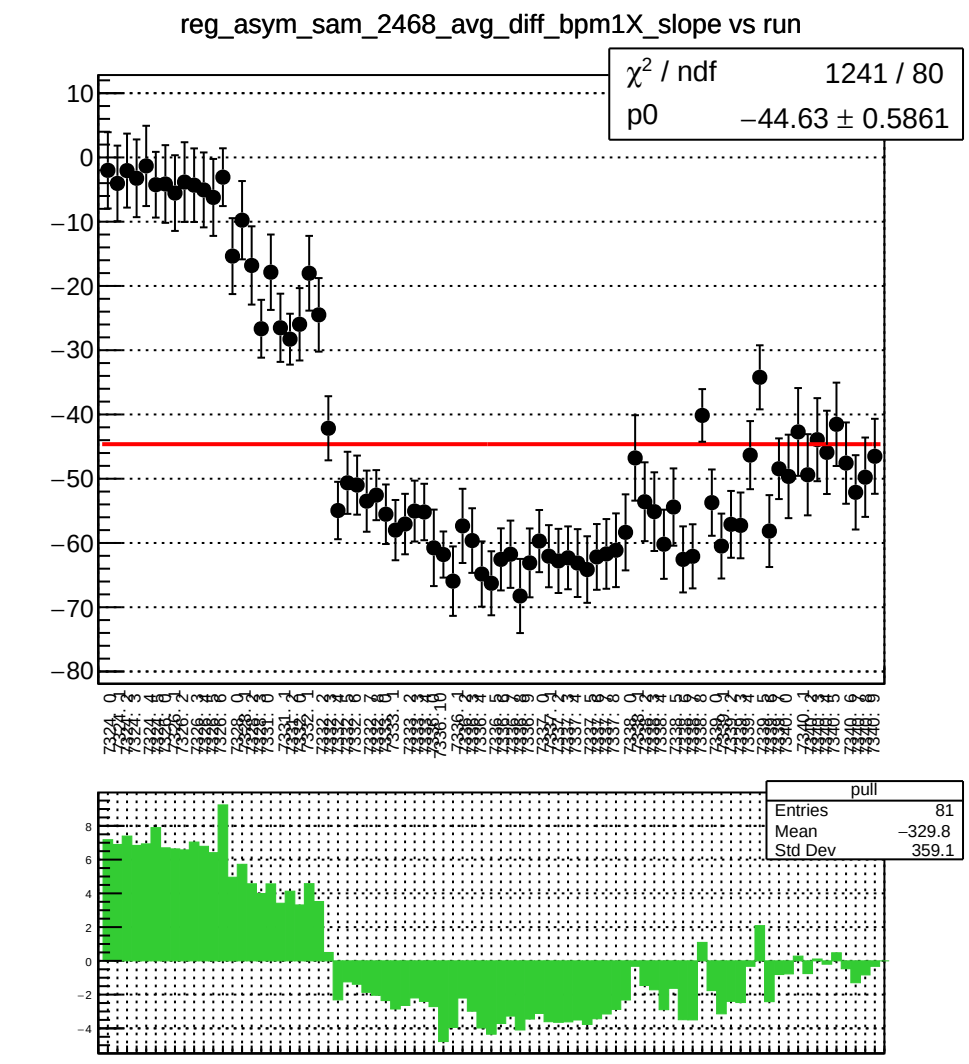

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 896.1 / 80
p0 −12.65 ± 0.32
pull
Entries 81
Mean −180
Std Dev 202.7

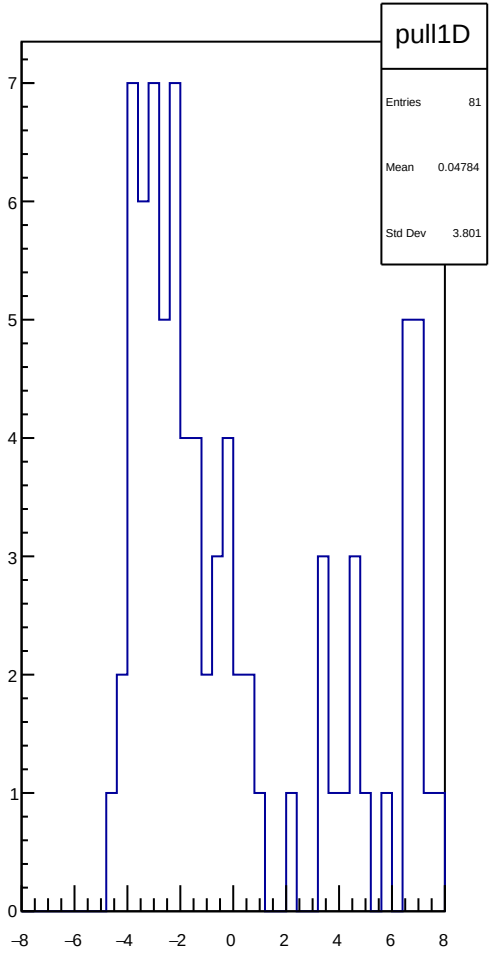

pull1D
Entries 81
Mean −0.1714
Std Dev 3.322

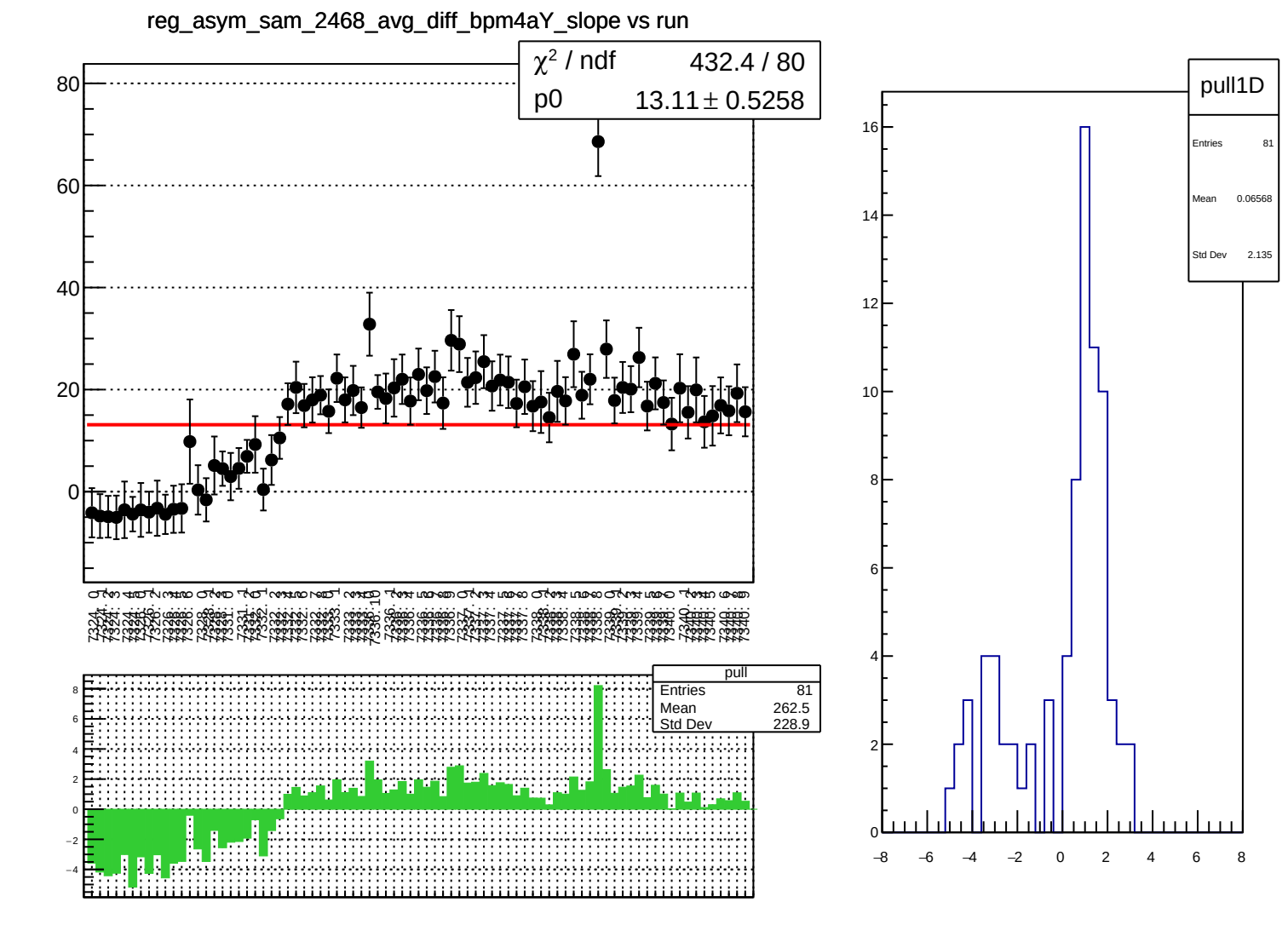

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 253.1 / 80
p0 23.01 ± 0.3041
pull
Entries 81
Mean 280.2
Std Dev 253.5

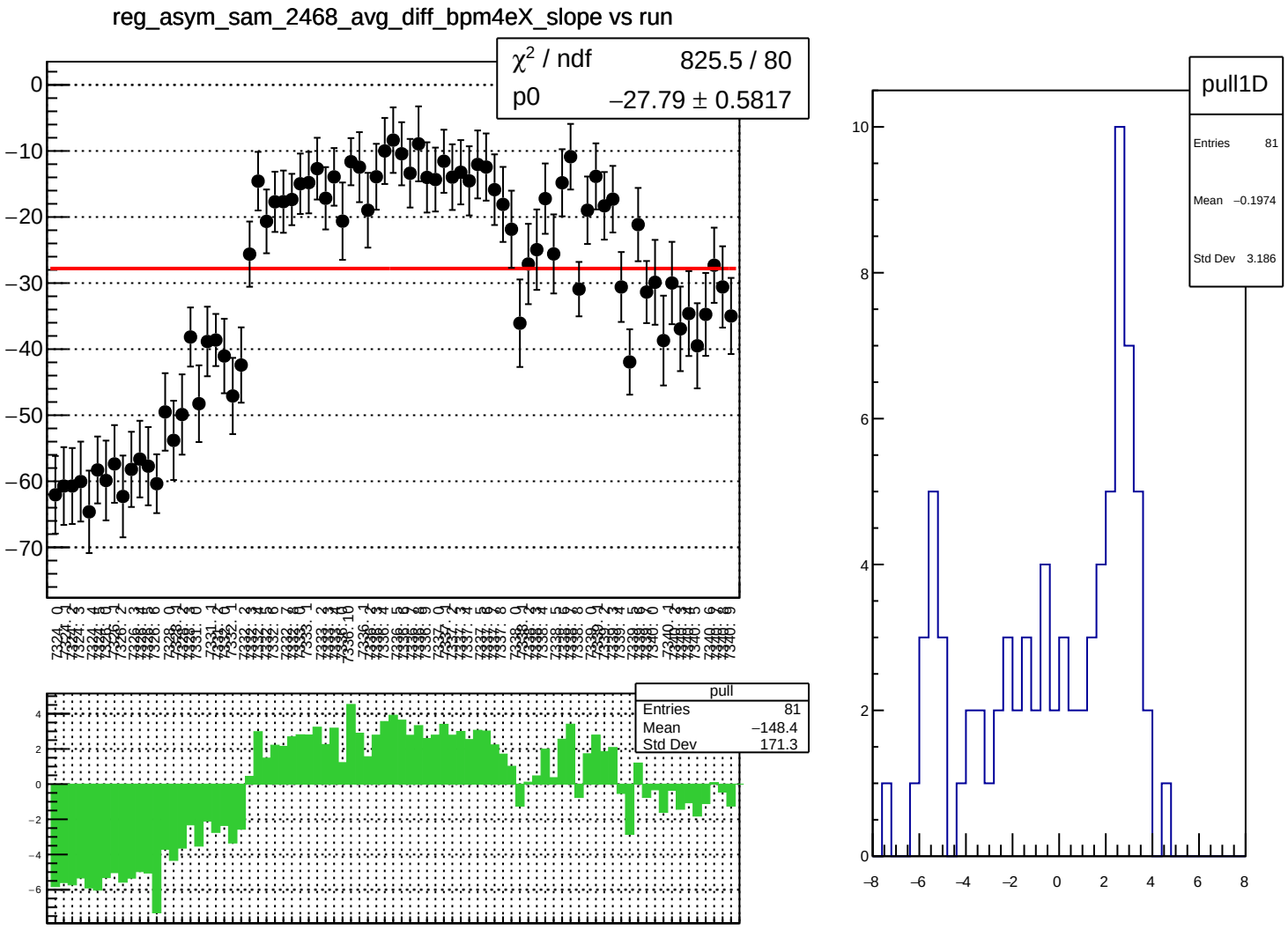

pull1D
Entries 81
Mean 0.0295
Std Dev 1.534

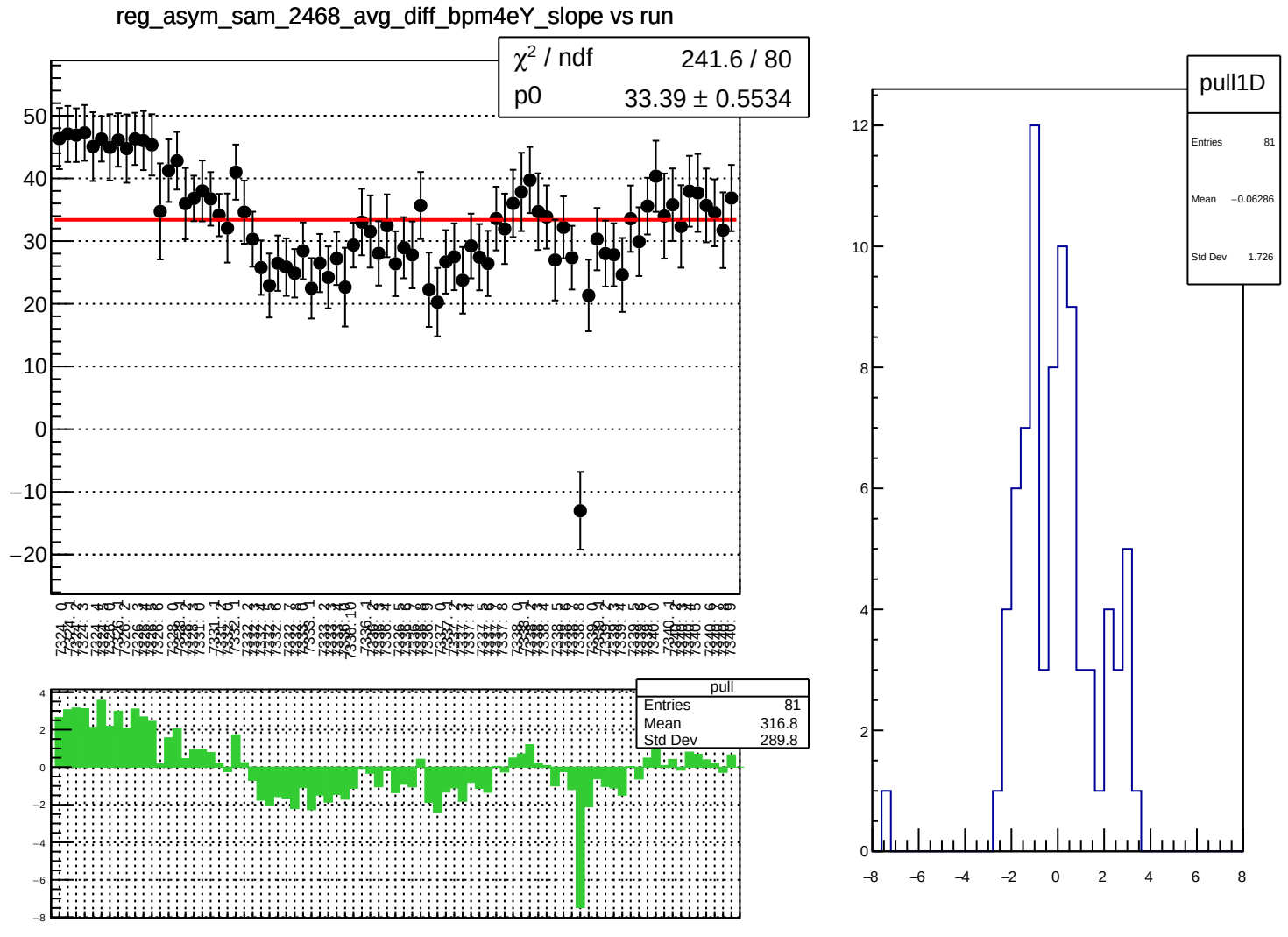

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 90.64 / 80
p0 −0.01936 ± 0.01487
pull
Entries 81
Mean 237.4
Std Dev 197.7
pull1D
Entries 81
Mean −0.115
Std Dev 1.052

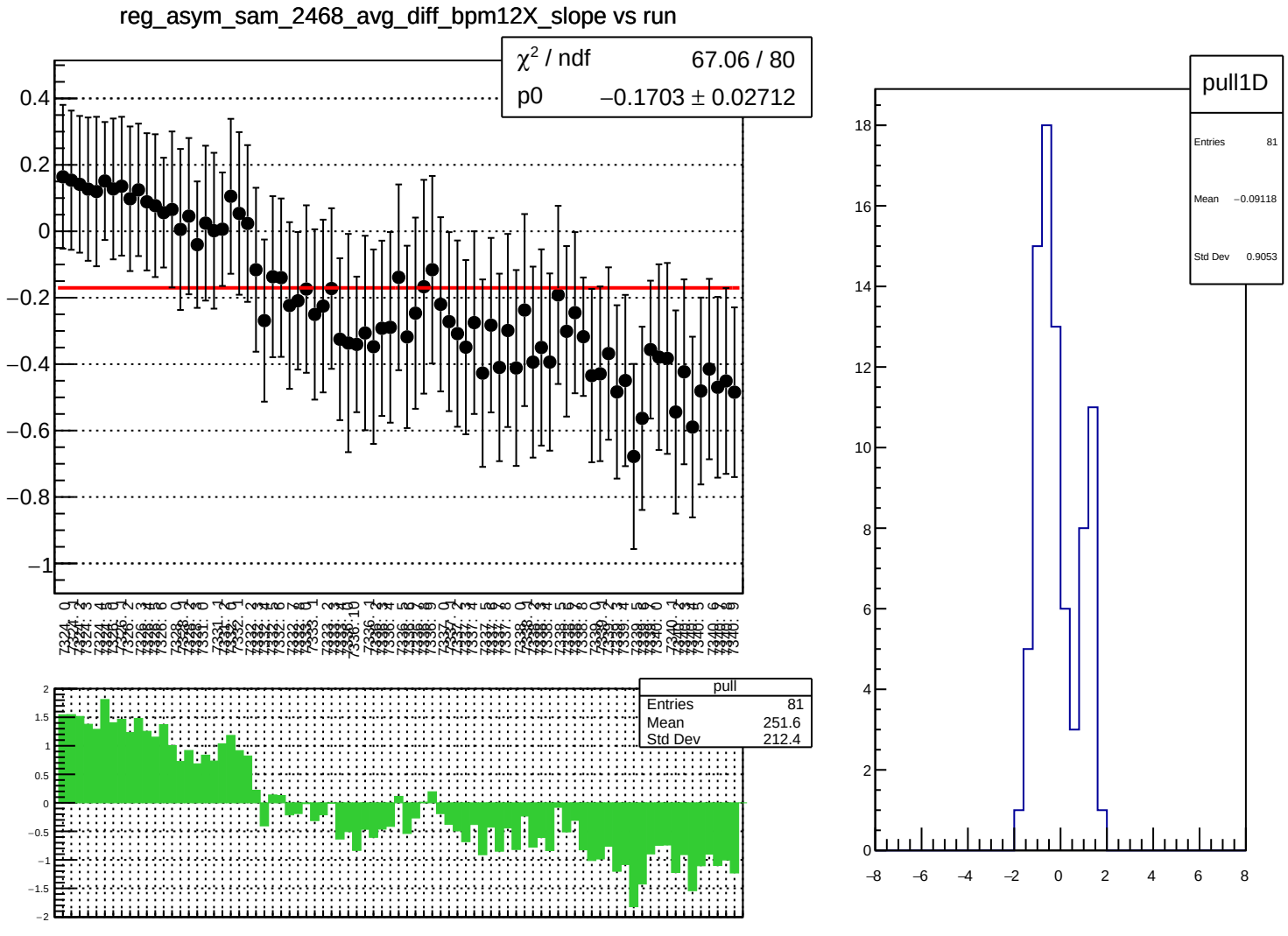

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 1241 / 80
p0 −44.63 ± 0.5861
pull
Entries 81
Mean −329.8
Std Dev 359.1

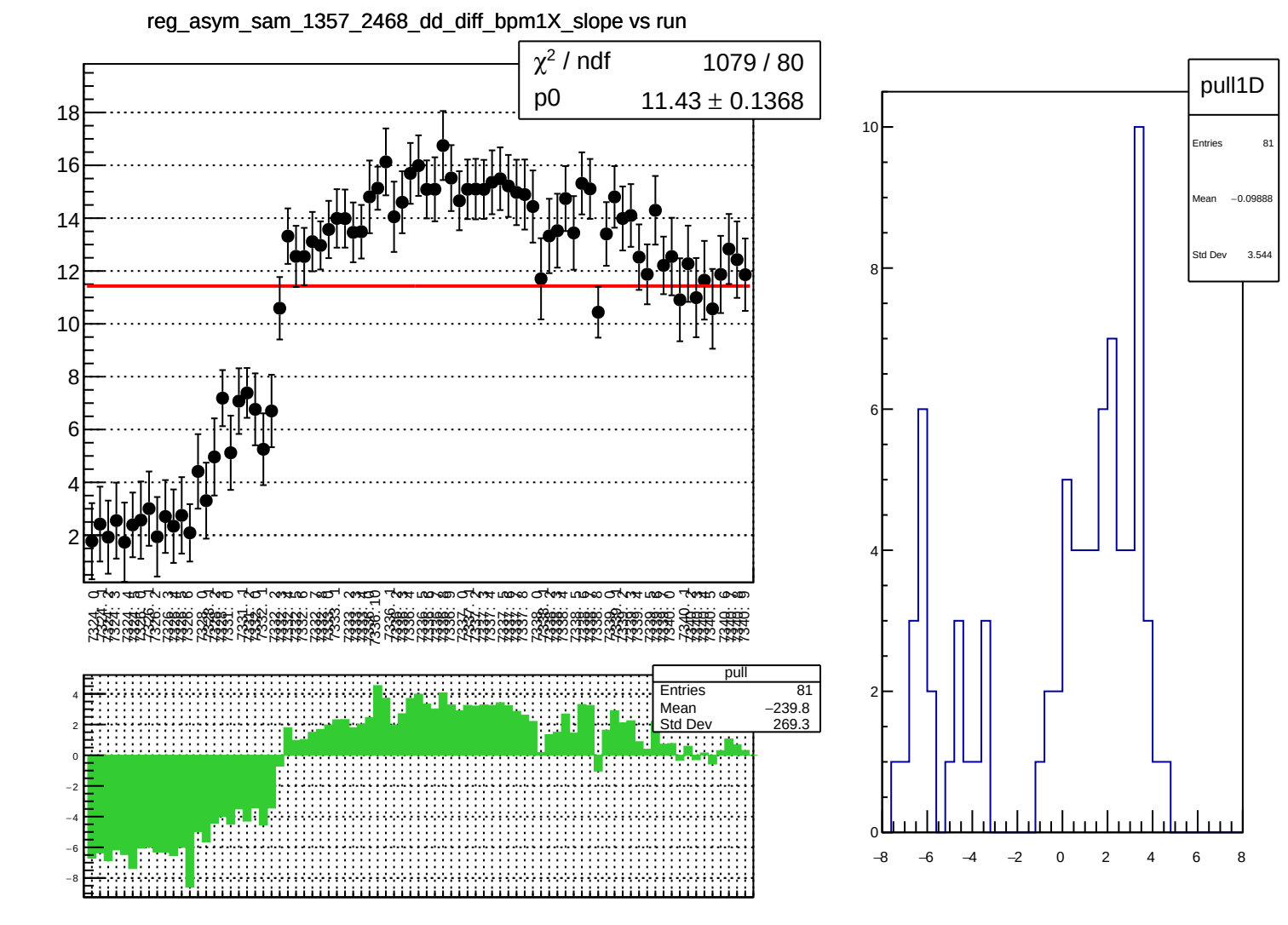

pull1D
Entries 81
Mean 0.04784
Std Dev 3.801

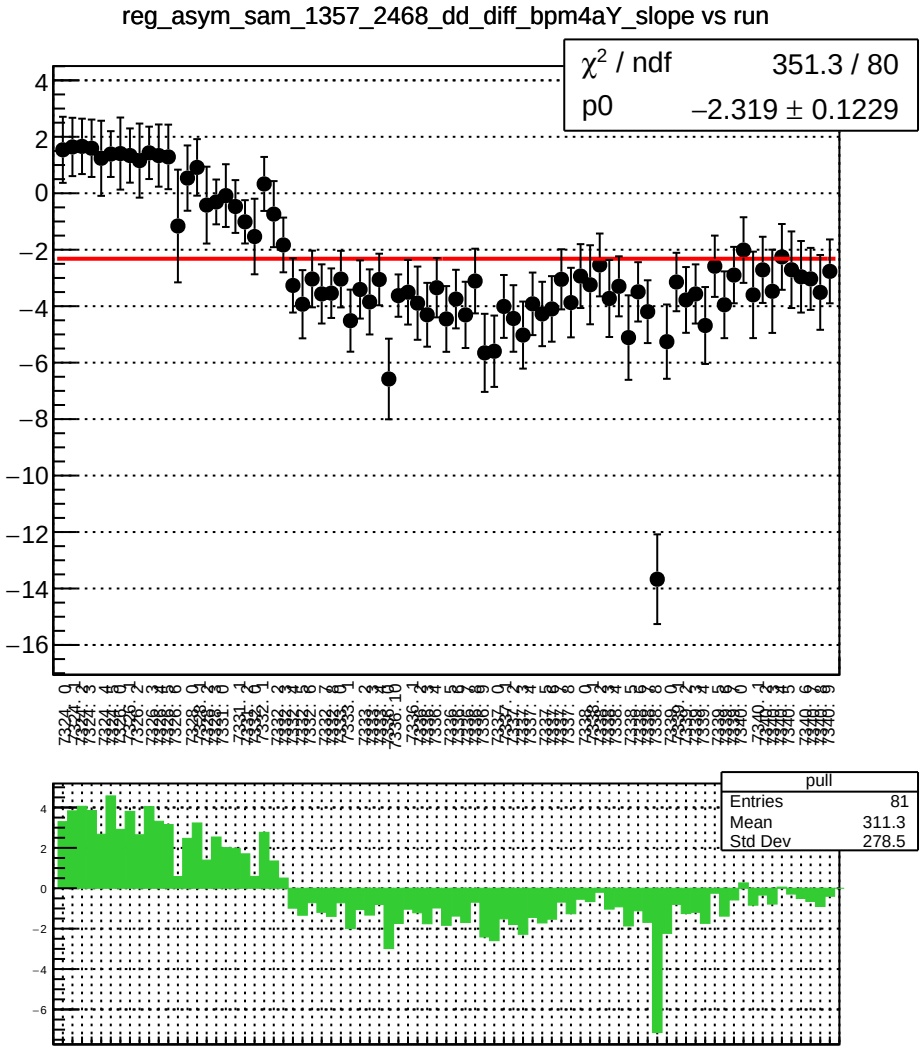

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 432.4 / 80
p0 13.11 ± 0.5258
pull
Entries 81
Mean 262.5
Std Dev 228.9
pull1D
Entries 81
Mean 0.06568
Std Dev 2.135

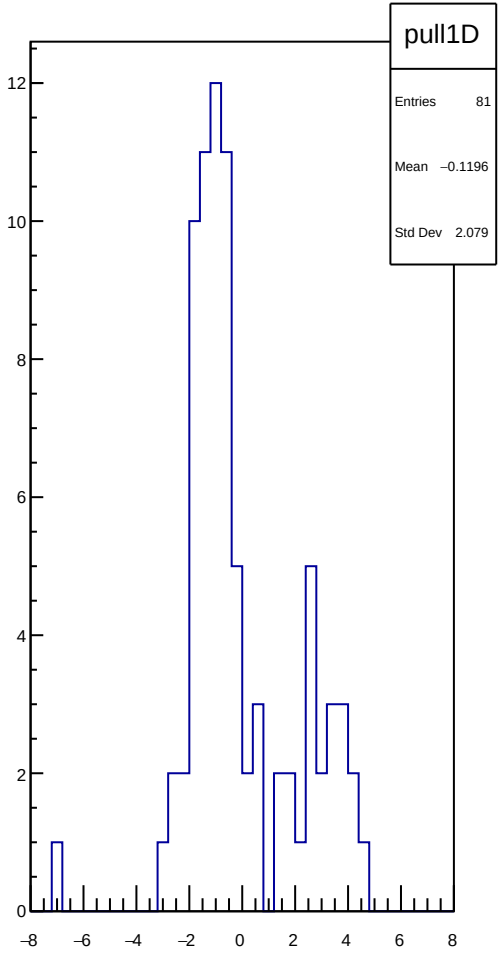

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 825.5 / 80
p0 −27.79 ± 0.5817
pull
Entries 81
Mean −148.4
Std Dev 171.3
pull1D
Entries 81
Mean −0.1974
Std Dev 3.186

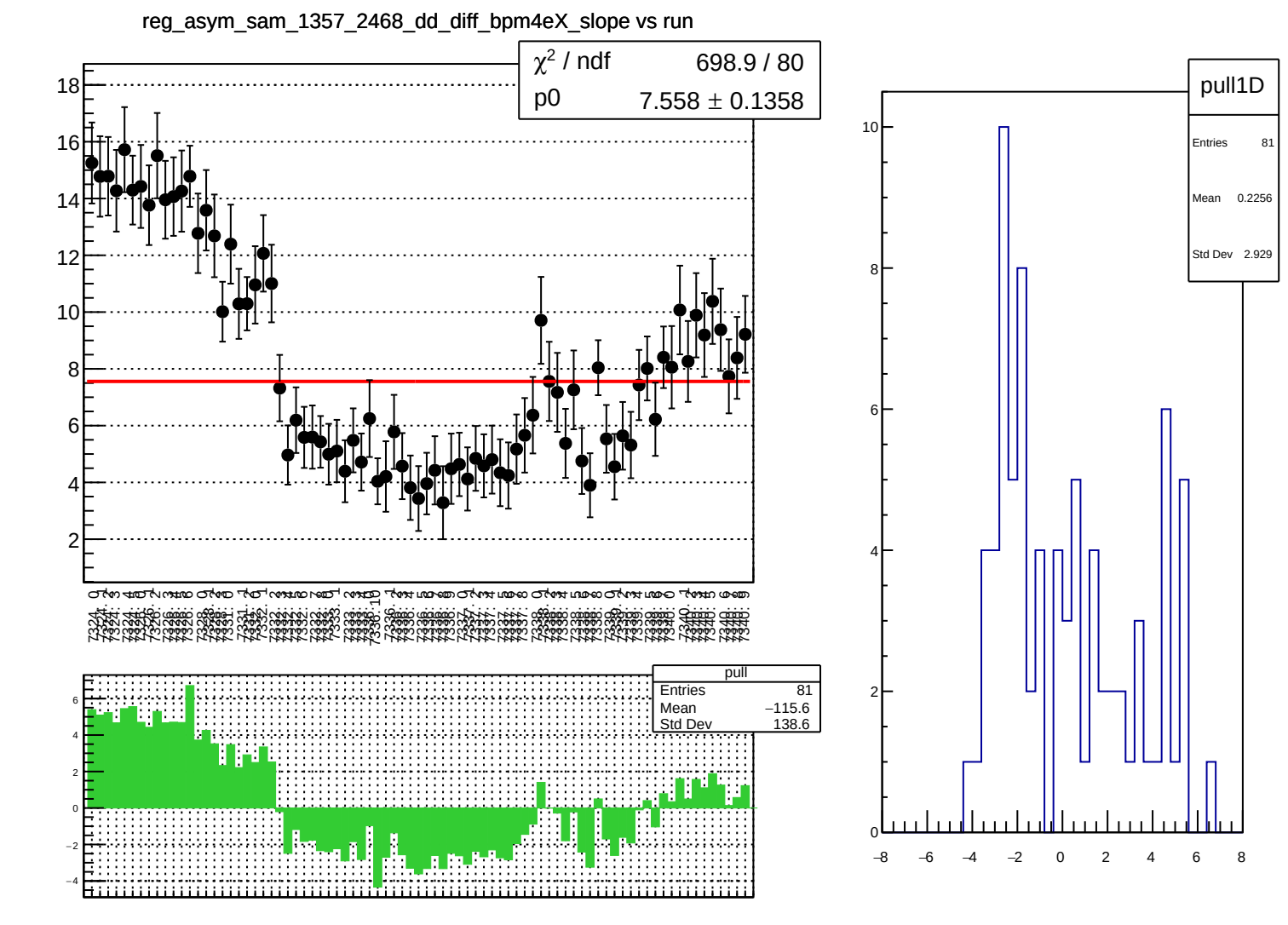

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 241.6 / 80
p0 33.39 ± 0.5534
pull
Entries 81
Mean 316.8
Std Dev 289.8
pull1D
Entries 81
Mean −0.06286
Std Dev 1.726

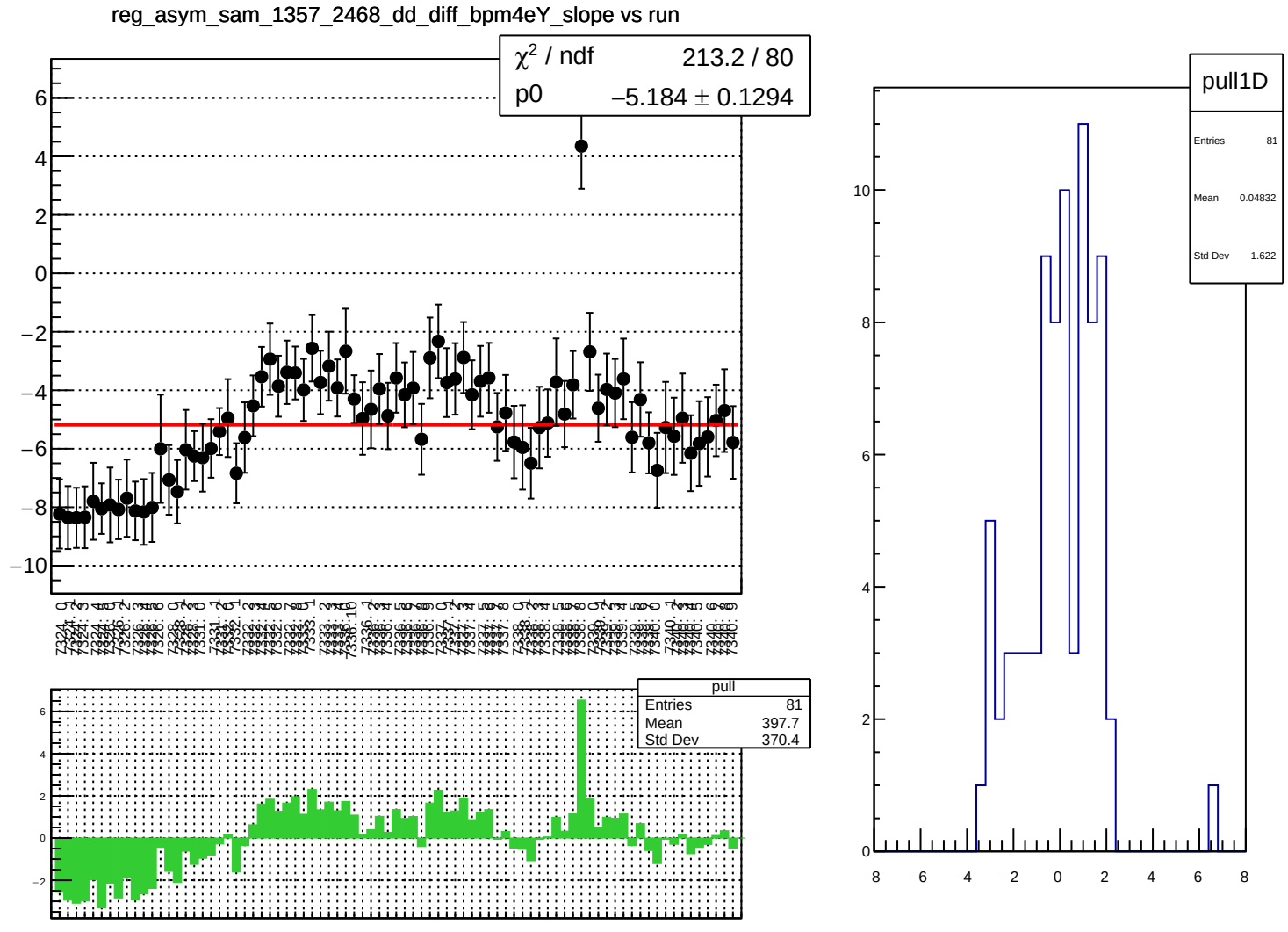

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 67.06 / 80
p0 −0.1703 ± 0.02712
pull
Entries 81
Mean 251.6
Std Dev 212.4
pull1D
Entries 81
Mean −0.09118
Std Dev 0.9053

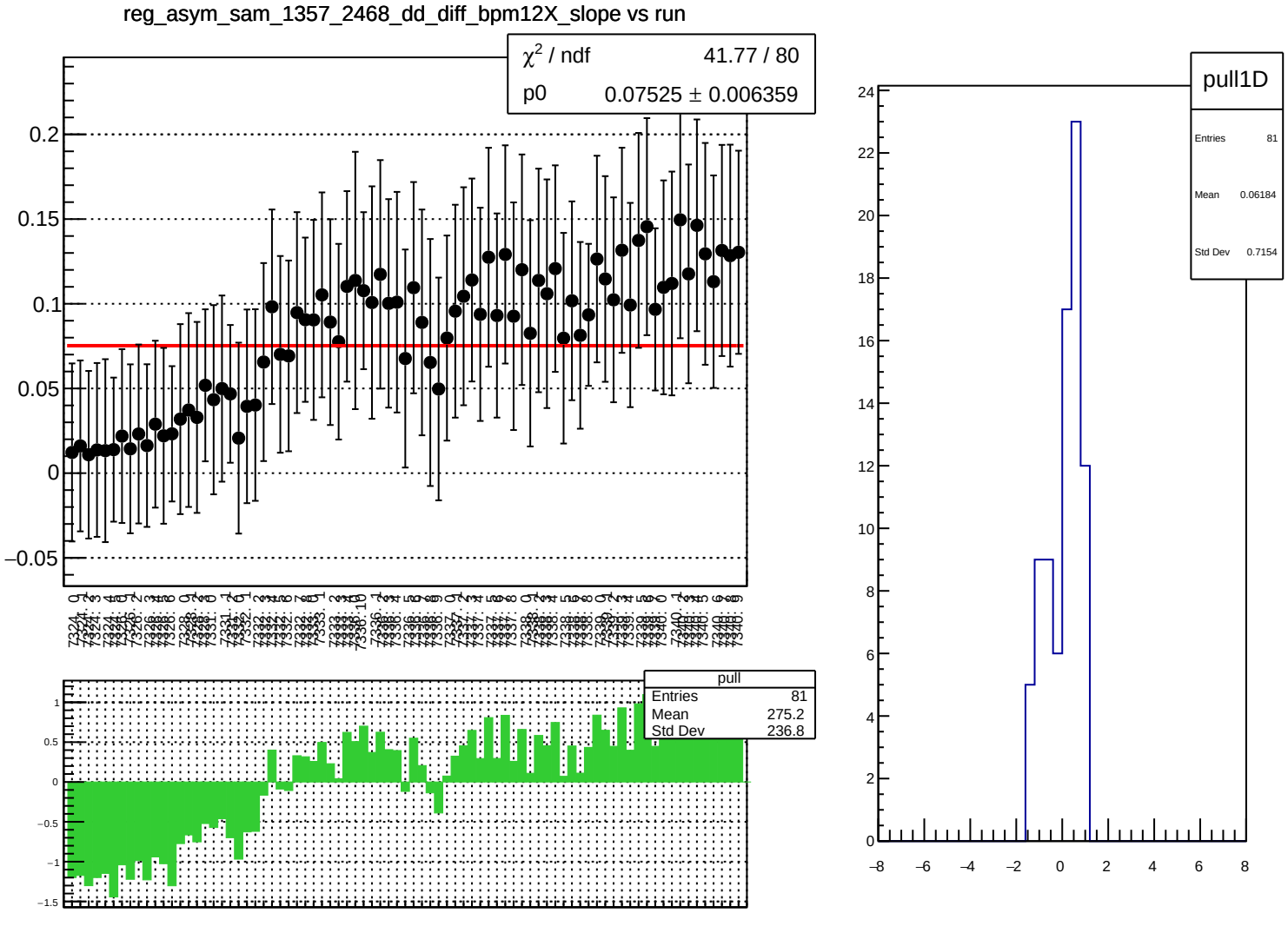

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 1079 / 80
p0 11.43 ± 0.1368
pull
Entries 81
Mean −239.8
Std Dev 269.3
pull1D
Entries 81
Mean −0.09888
Std Dev 3.544

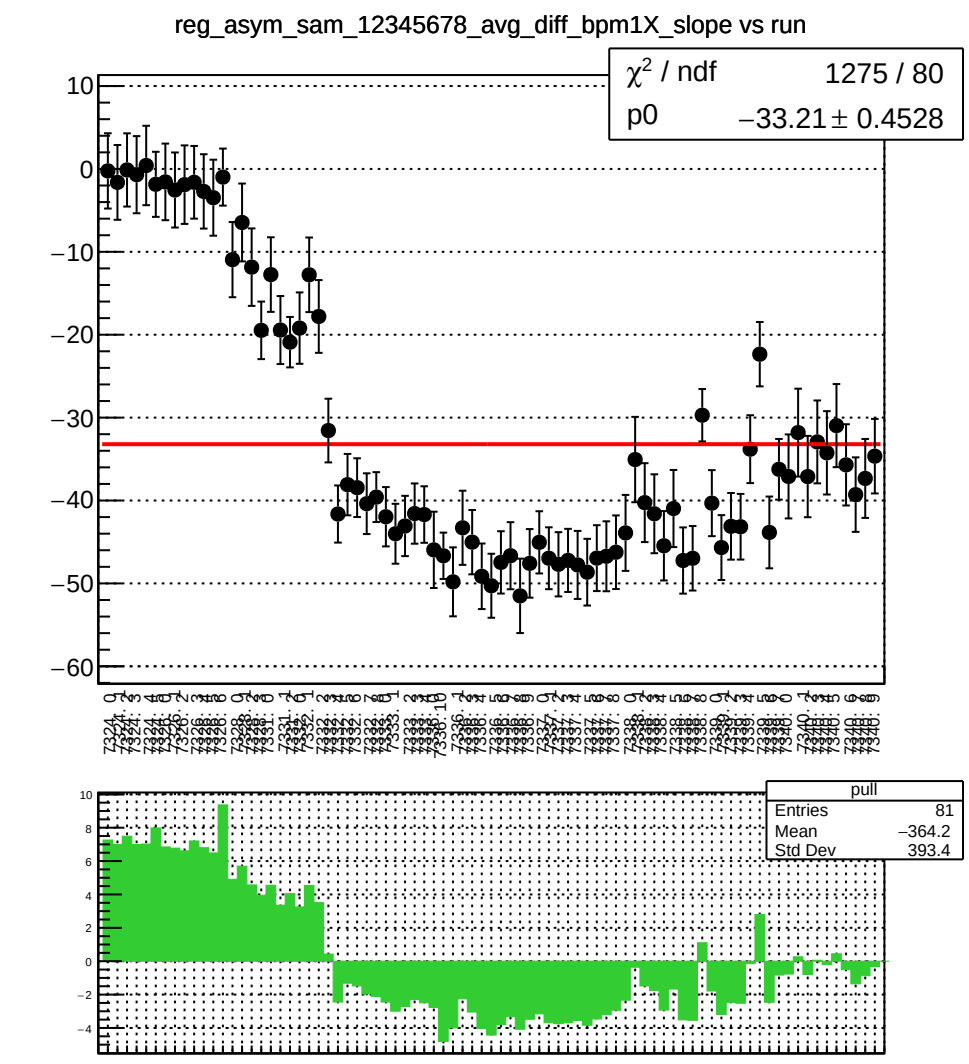

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 351.3 / 80
p0 −2.319 ± 0.1229
pull
Entries 81
Mean 311.3
Std Dev 278.5

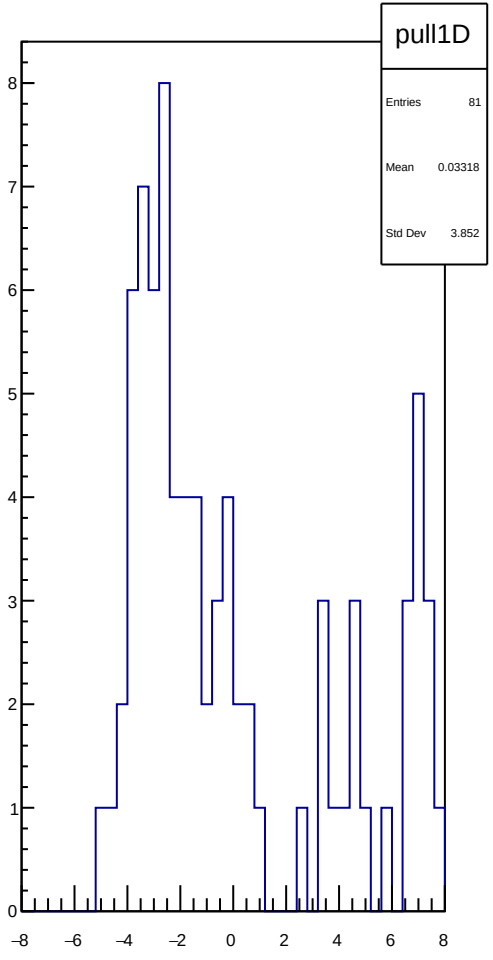

pull1D
Entries 81
Mean −0.1196
Std Dev 2.079

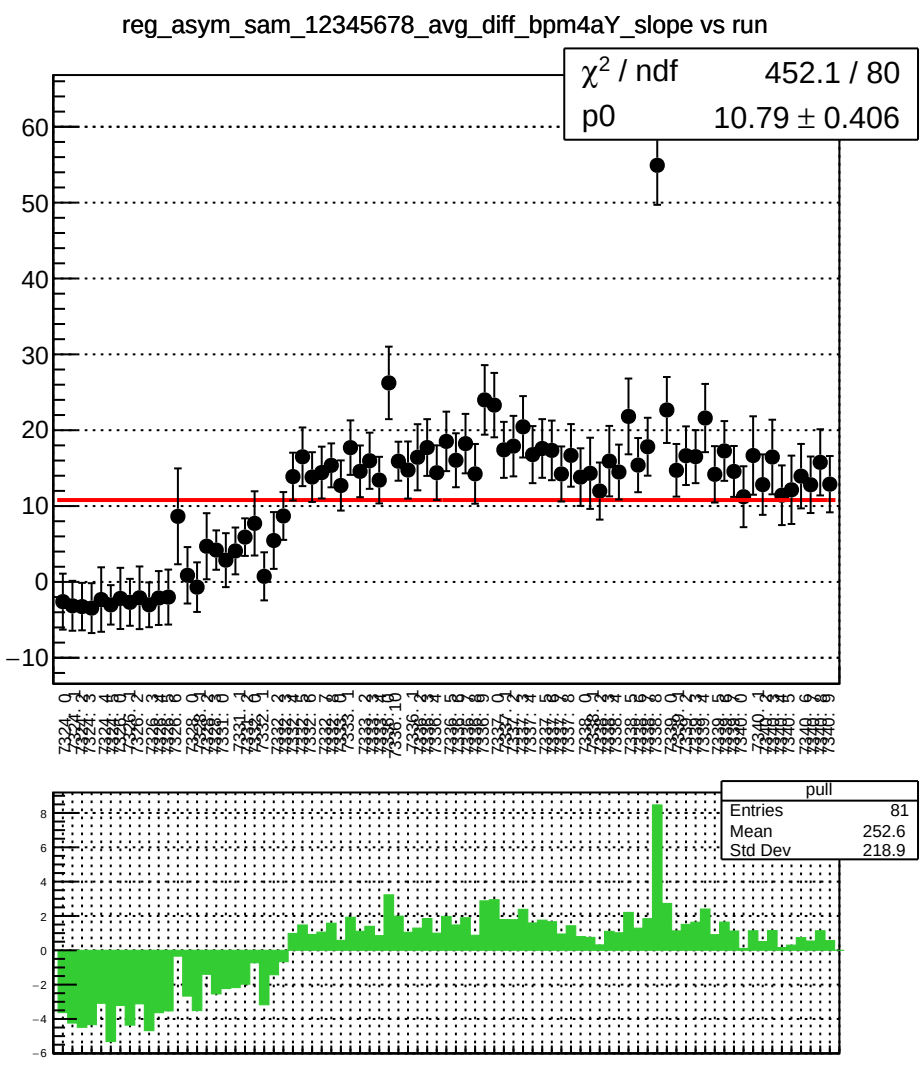

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 698.9 / 80
p0 7.558 ± 0.1358
pull
Entries 81
Mean −115.6
Std Dev 138.6
pull1D
Entries 81
Mean 0.2256
Std Dev 2.929

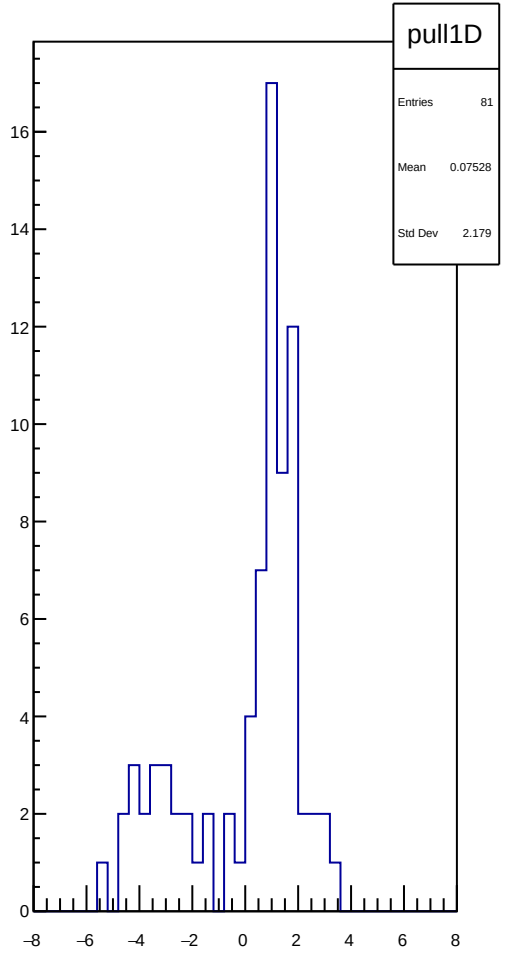

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 213.2 / 80
p0 −5.184 ± 0.1294
pull
Entries 81
Mean 397.7
Std Dev 370.4
pull1D
Entries 81
Mean 0.04832
Std Dev 1.622

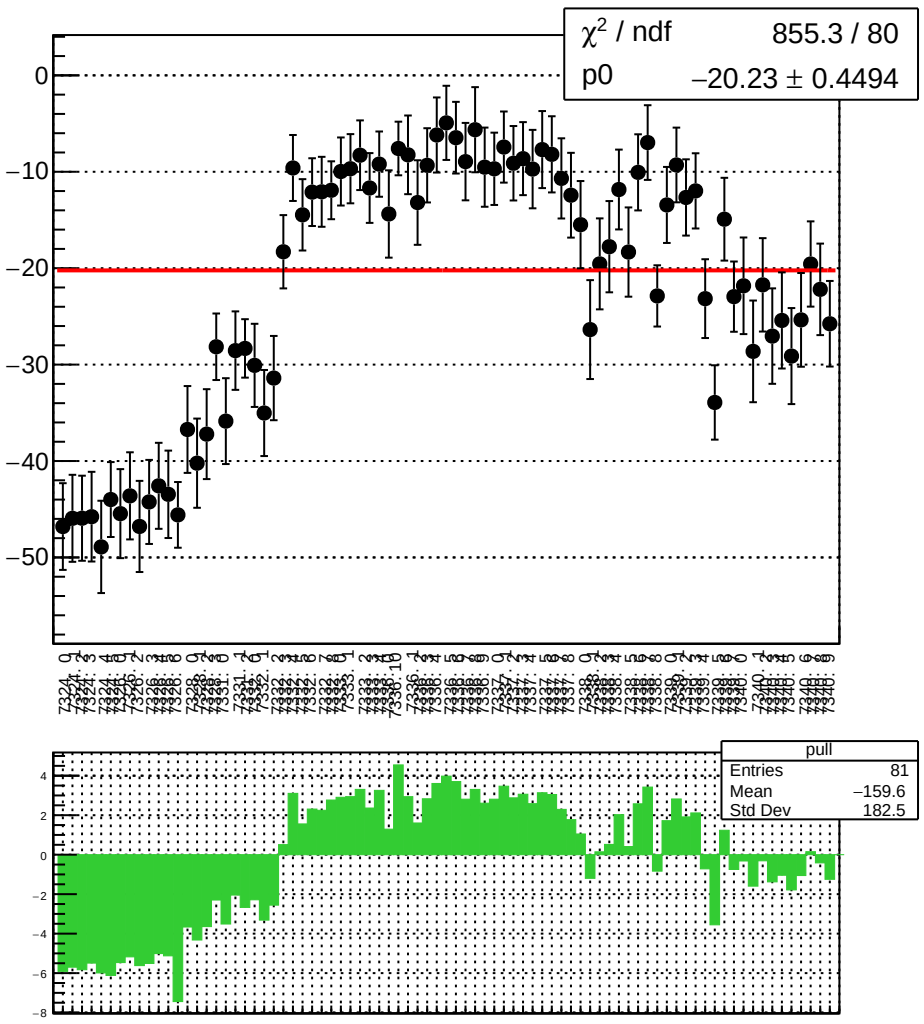

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 41.77 / 80
p0 0.07525 ± 0.006359
pull
Entries 81
Mean 275.2
Std Dev 236.8
pull1D
Entries 81
Mean 0.06184
Std Dev 0.7154

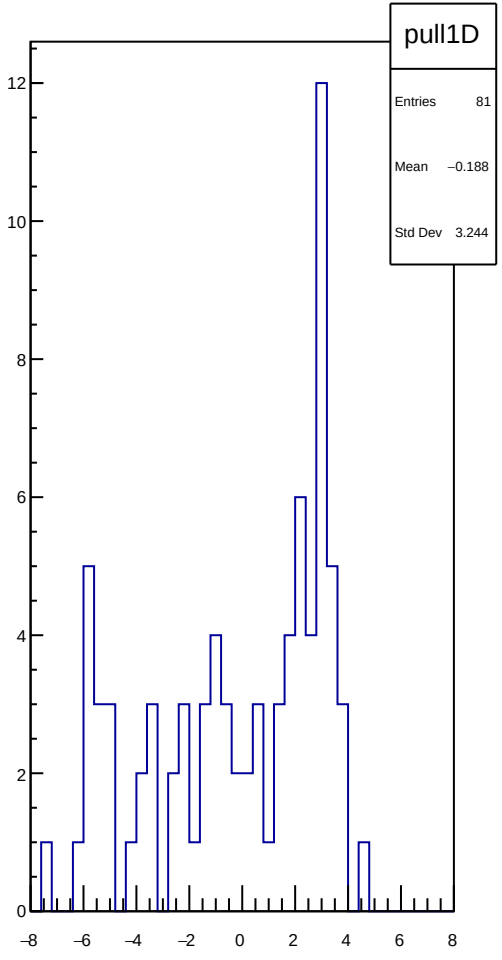

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 1275 / 80
p0 −33.21 ± 0.4528
pull
Entries 81
Mean −364.2
Std Dev 393.4

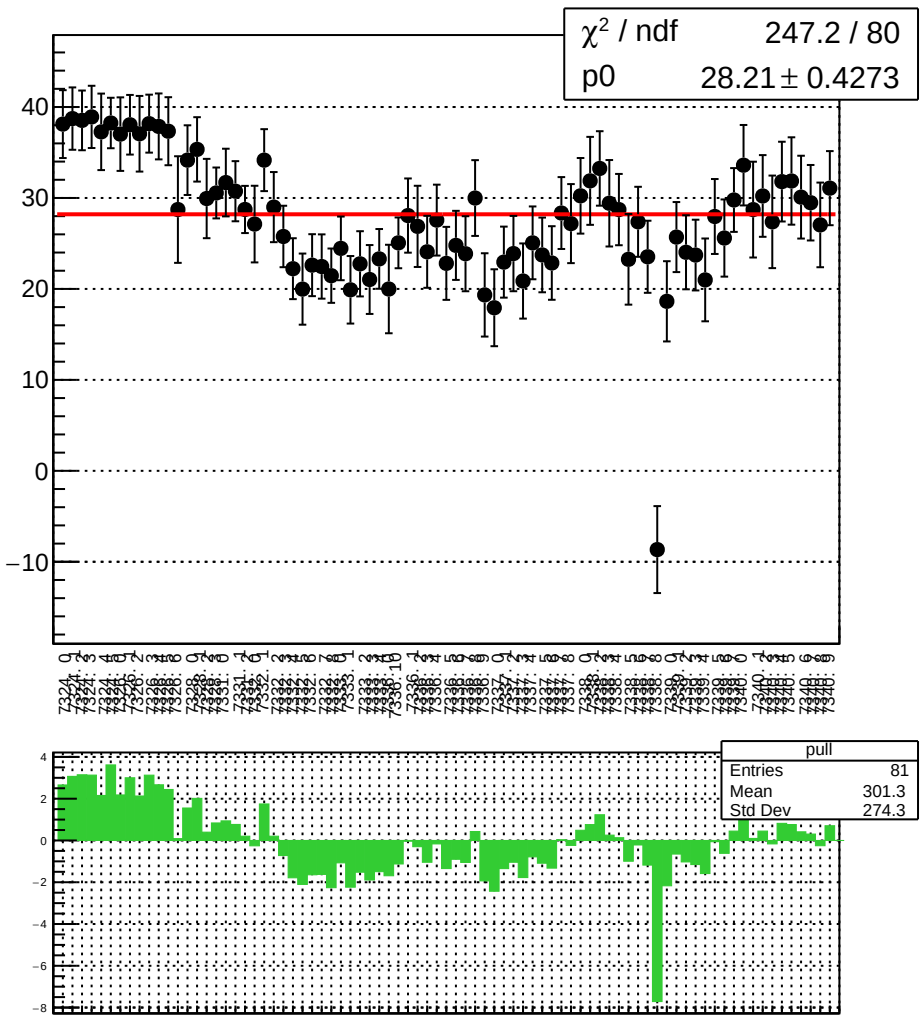

pull1D
Entries 81
Mean 0.03318
Std Dev 3.852

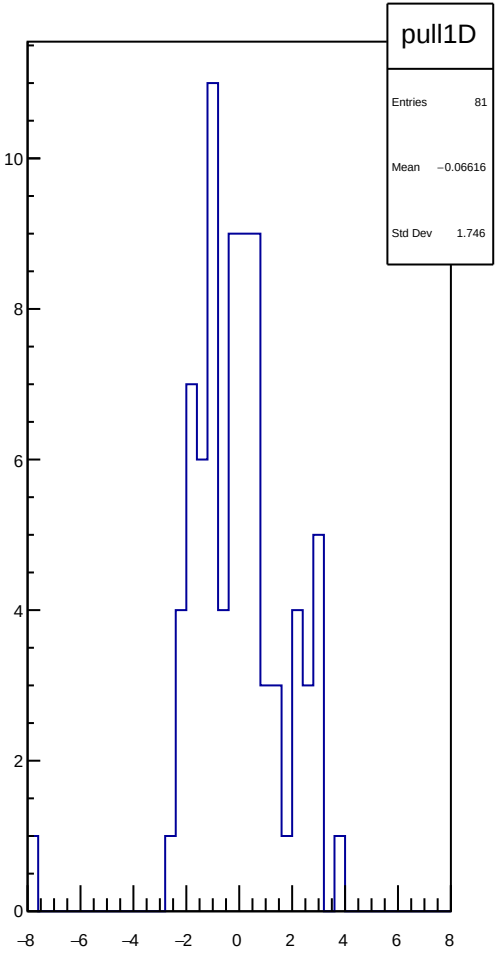

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 452.1 / 80
p0 10.79 ± 0.406
pull
Entries 81
Mean 252.6
Std Dev 218.9

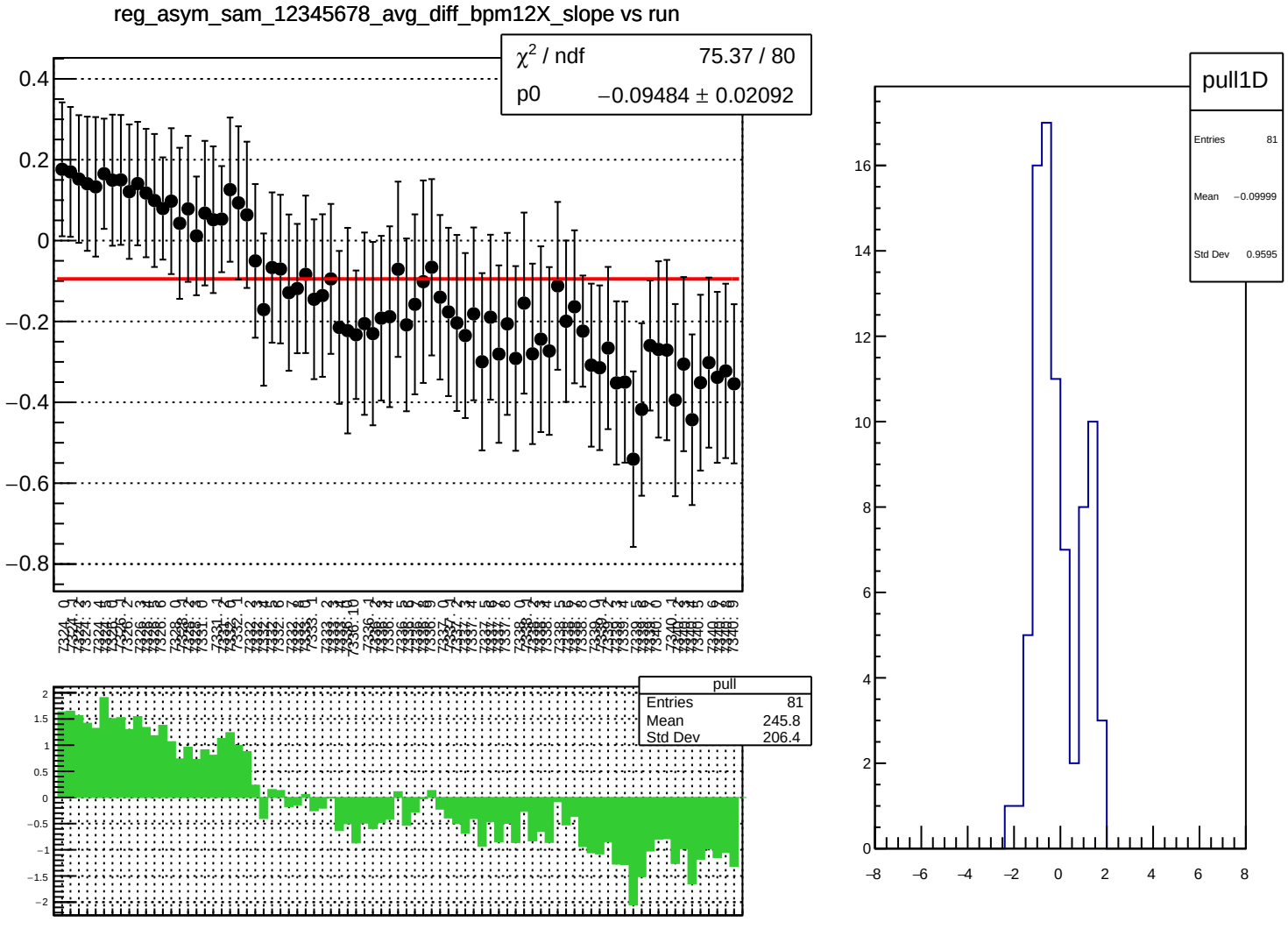

pull1D
Entries 81
Mean 0.07528
Std Dev 2.179

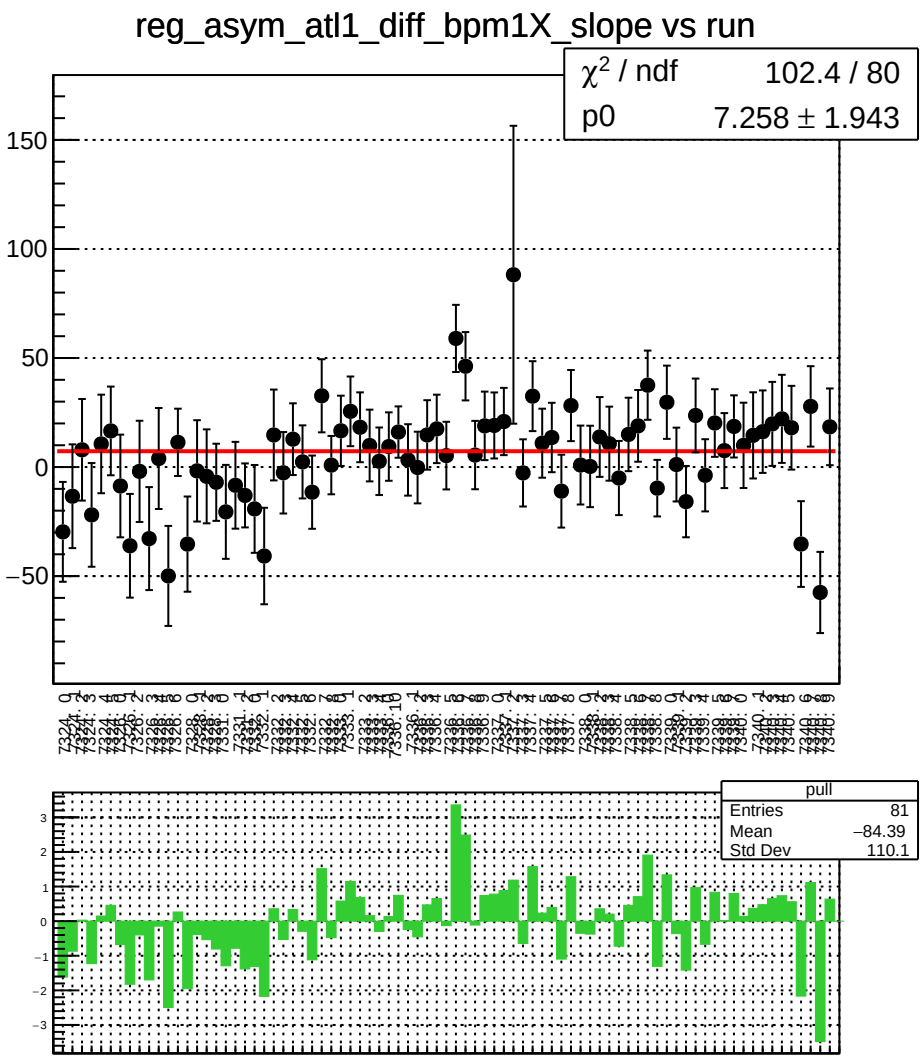

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 855.3 / 80
p0 −20.23 ± 0.4494
pull
Entries 81
Mean −159.6
Std Dev 182.5

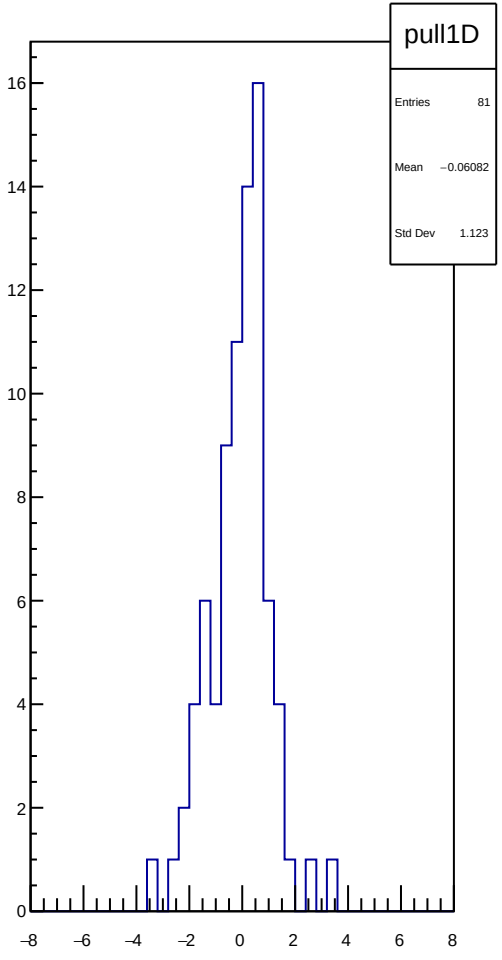

pull1D
Entries 81
Mean −0.188
Std Dev 3.244

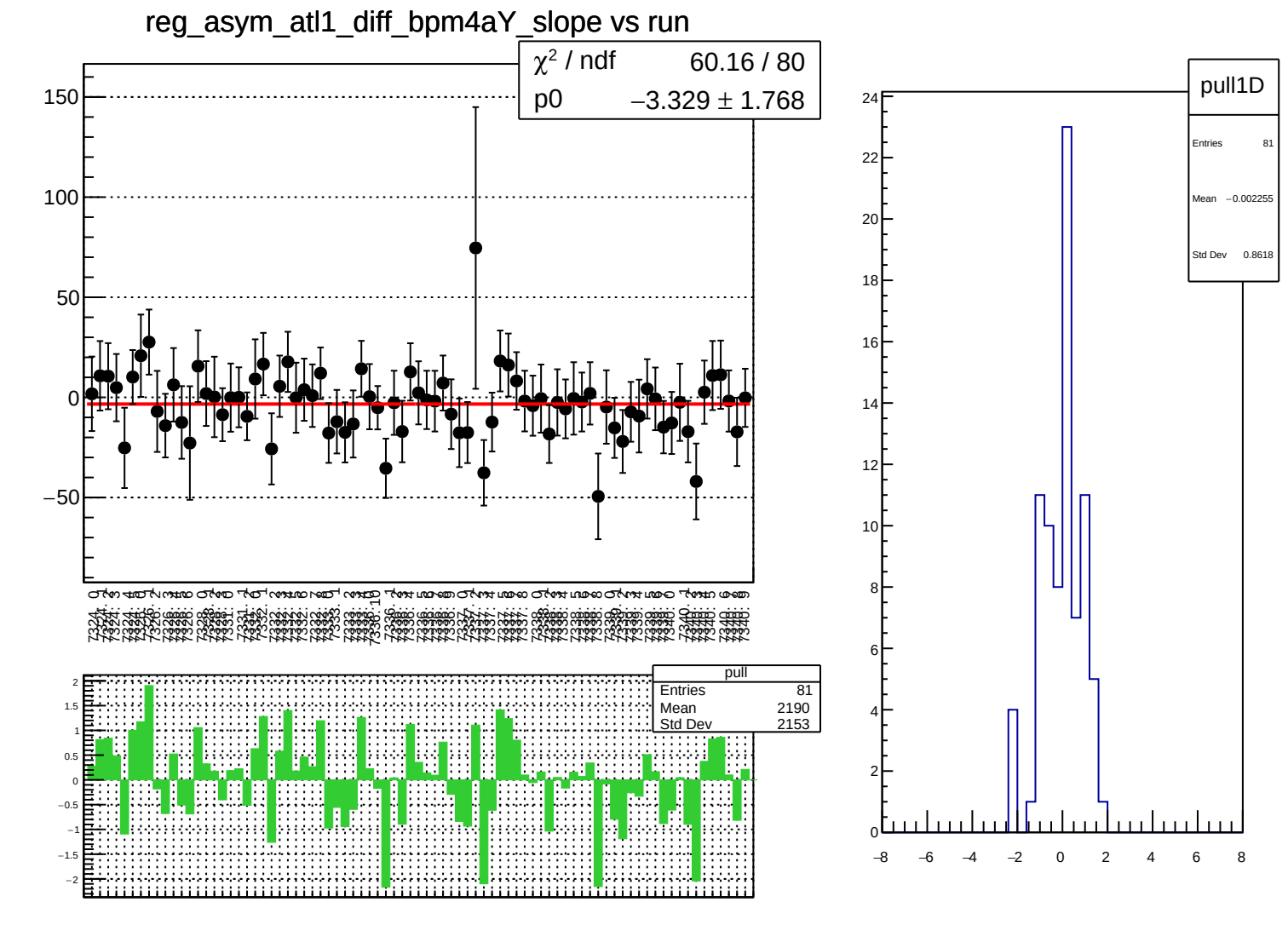

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 247.2 / 80
p0 28.21 ± 0.4273
pull
Entries 81
Mean 301.3
Std Dev 274.3

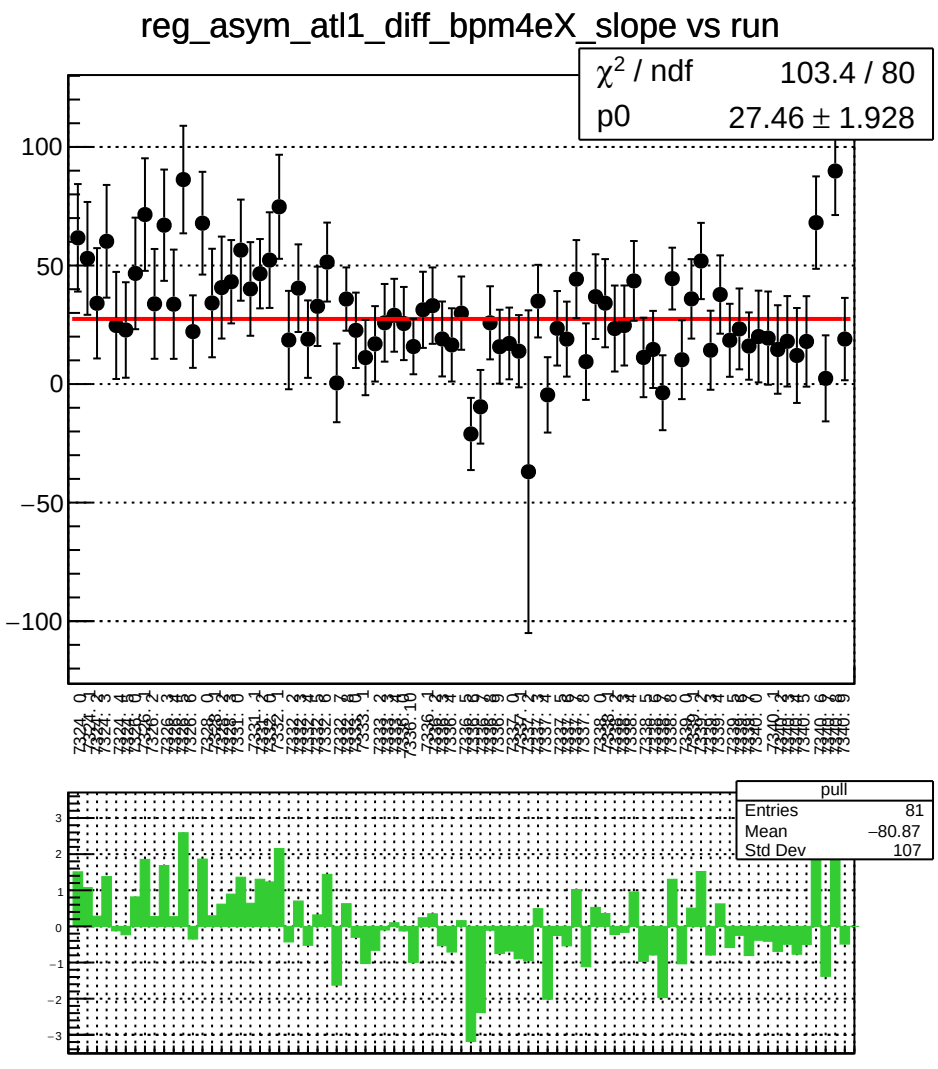

pull1D
Entries 81
Mean −0.06616
Std Dev 1.746

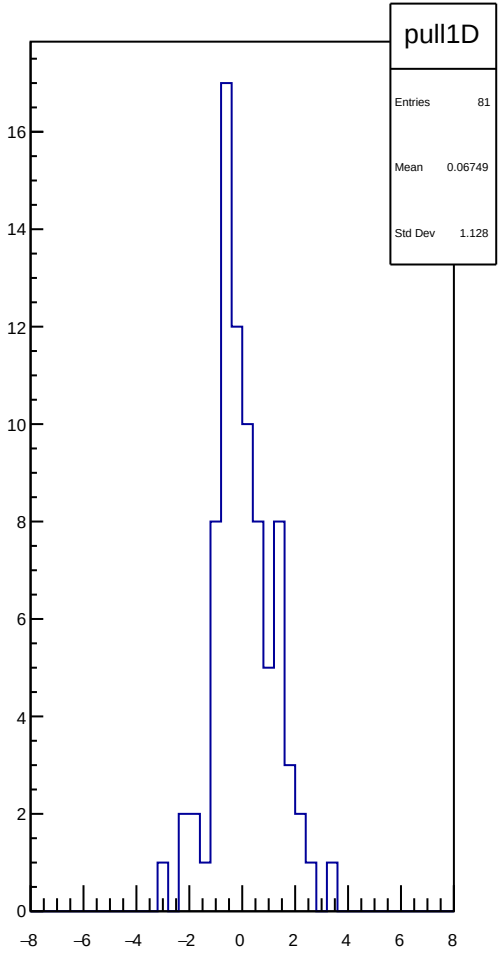

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 75.37 / 80
p0 −0.09484 ± 0.02092
pull
Entries 81
Mean 245.8
Std Dev 206.4
pull1D
Entries 81
Mean −0.09999
Std Dev 0.9595

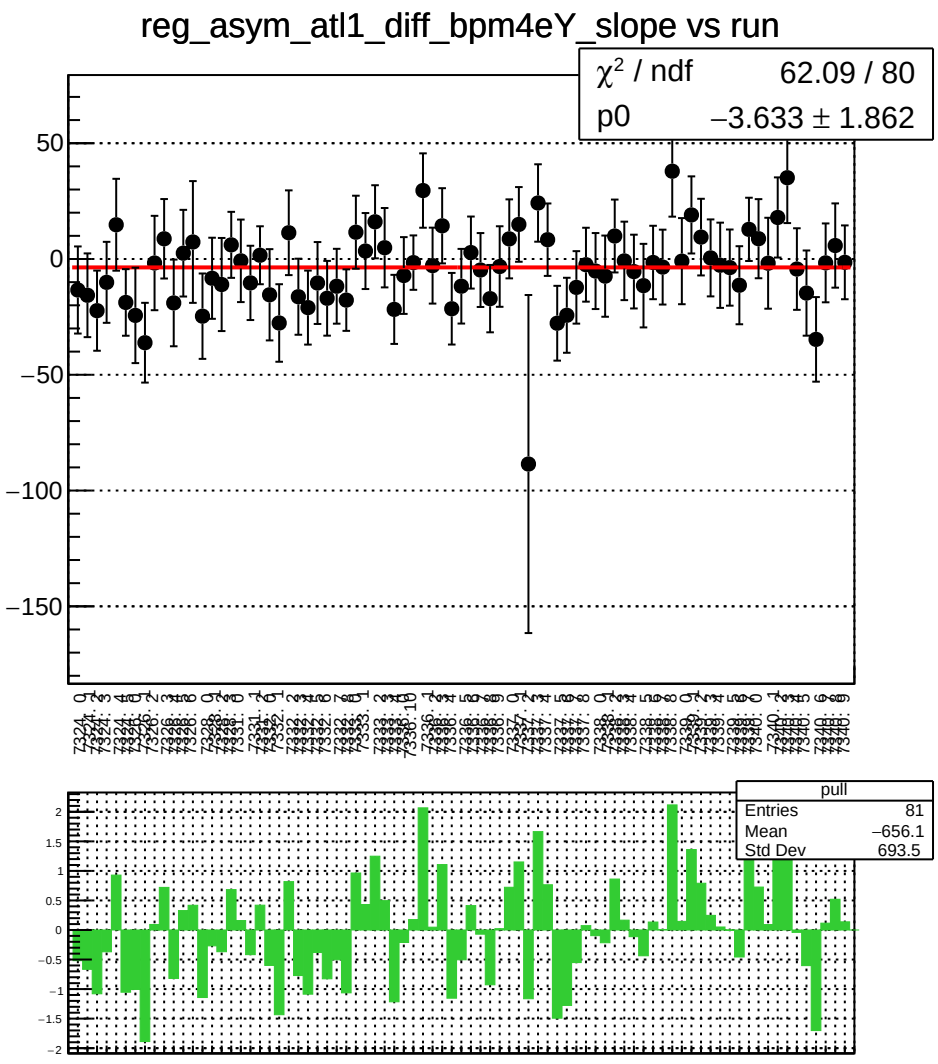

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 102.4 / 80
p0 7.258 ± 1.943
150
100
50
0
−50
pull
Entries 81
Mean −84.39
Std Dev 110.1
3
2
1
0
−1
−2
−3

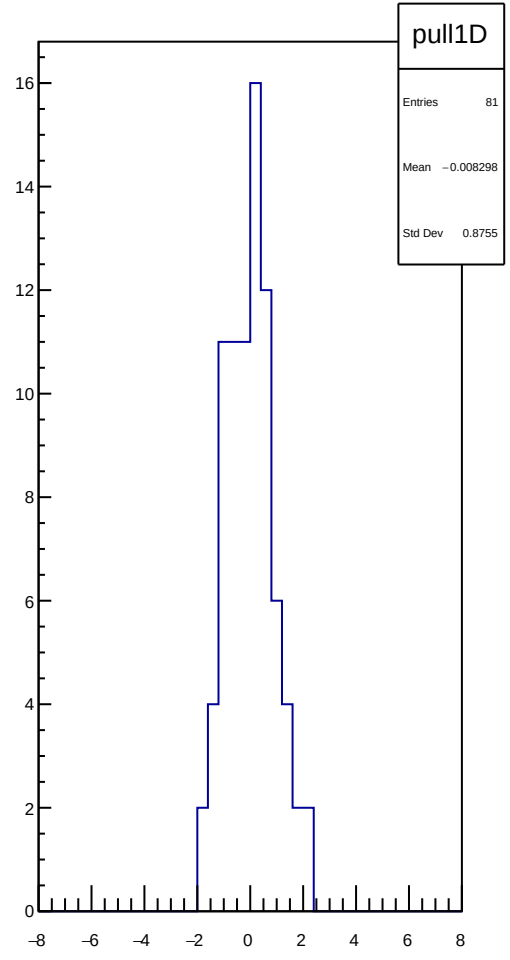

pull1D
Entries 81
Mean −0.06082
Std Dev 1.123
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

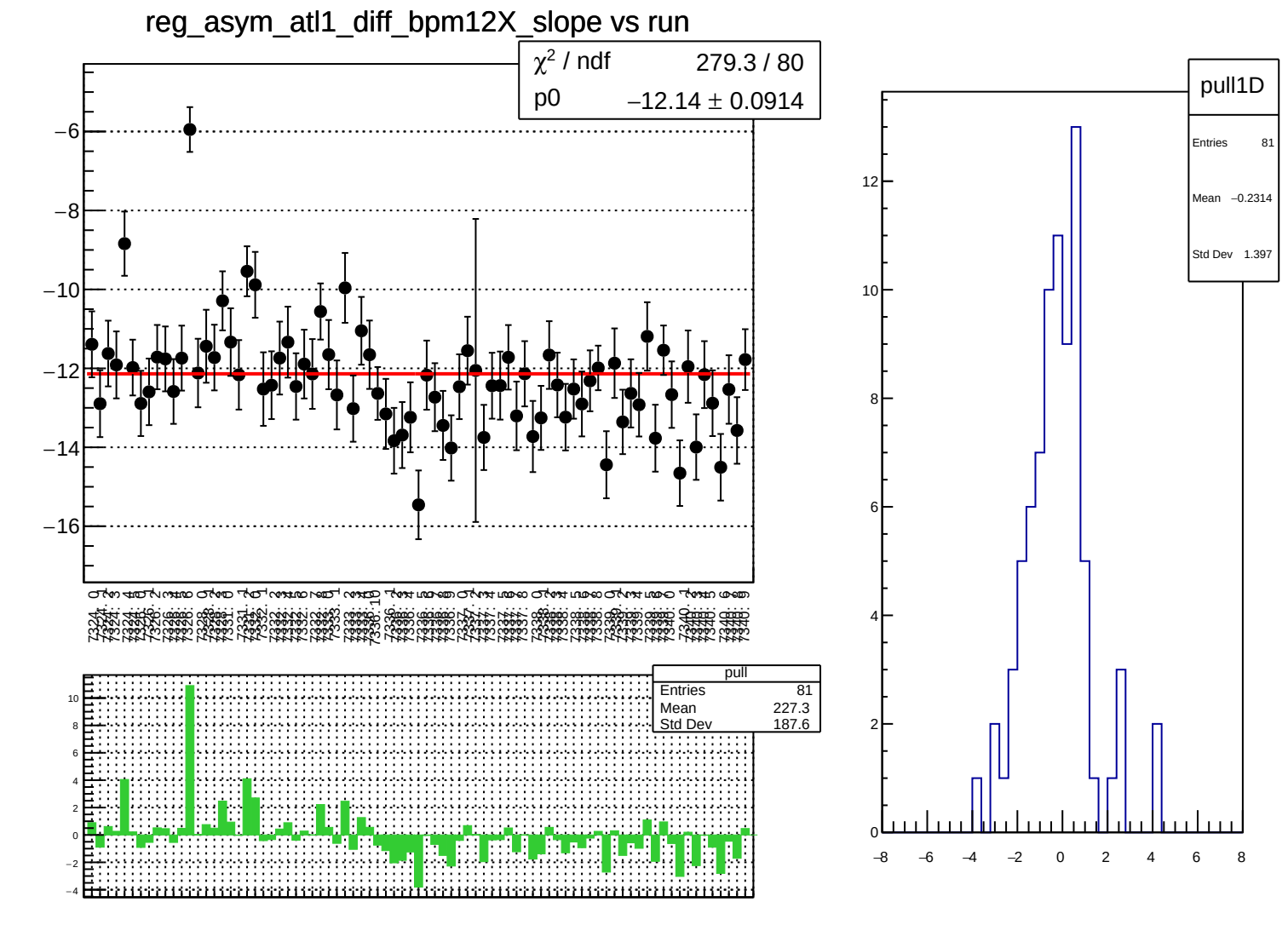

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 60.16 / 80
p0 −3.329 ± 1.768
pull
Entries 81
Mean 2190
Std Dev 2153
pull1D
Entries 81
Mean −0.002255
Std Dev 0.8618

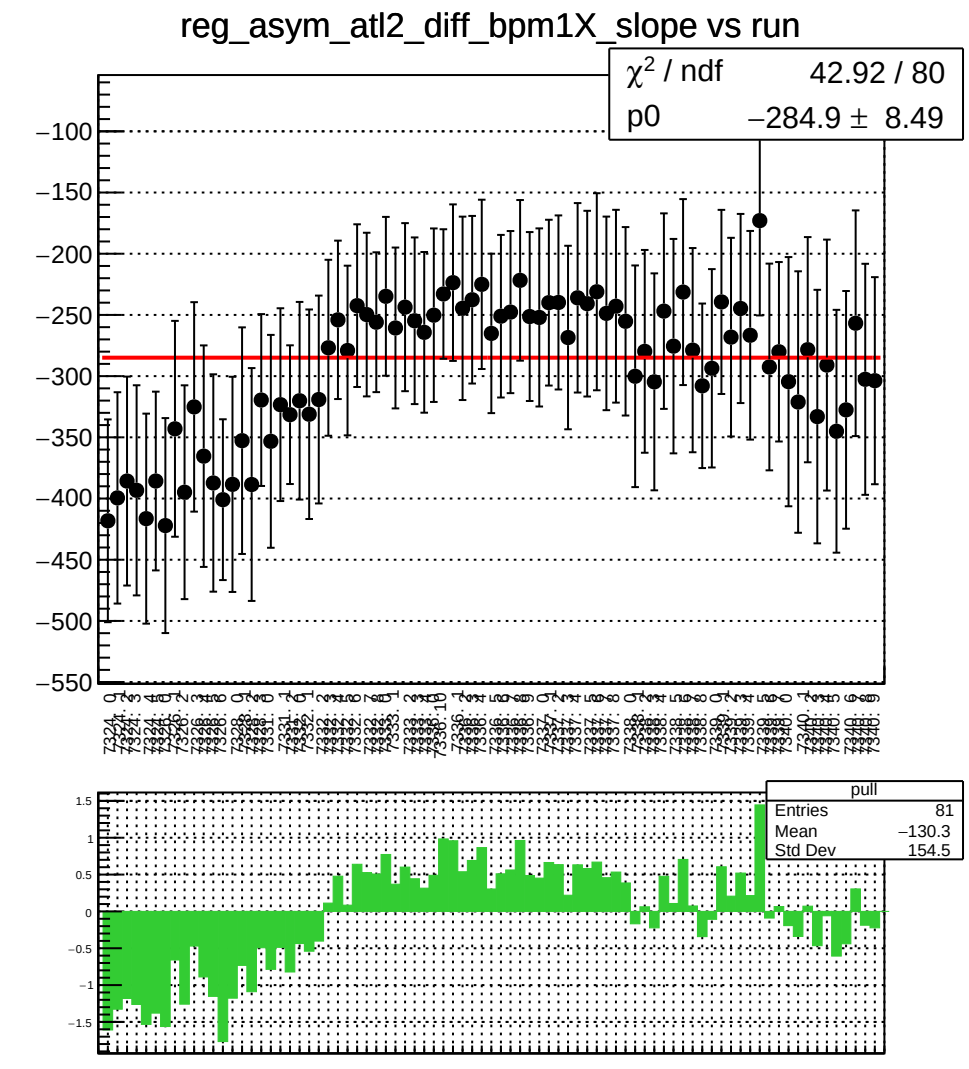

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 103.4 / 80
p0 27.46 ± 1.928
pull
Entries 81
Mean −80.87
Std Dev 107

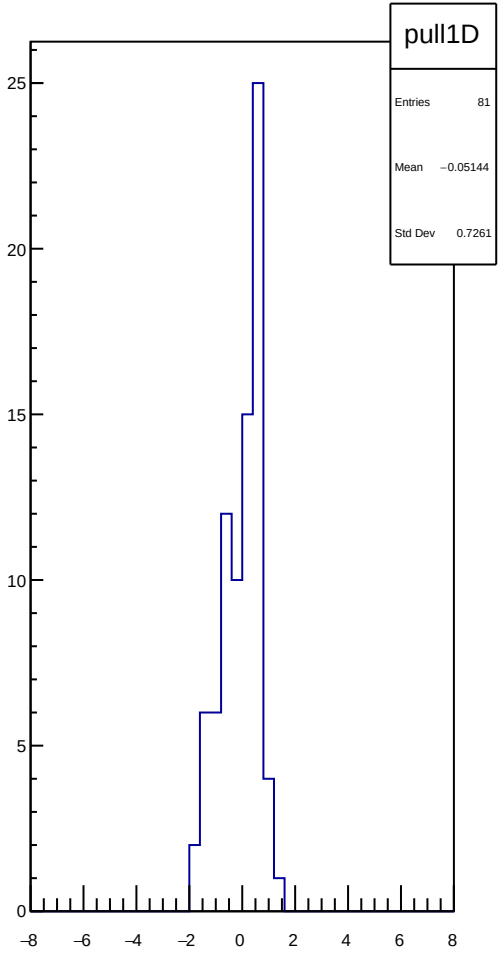

pull1D
Entries 81
Mean 0.06749
Std Dev 1.128

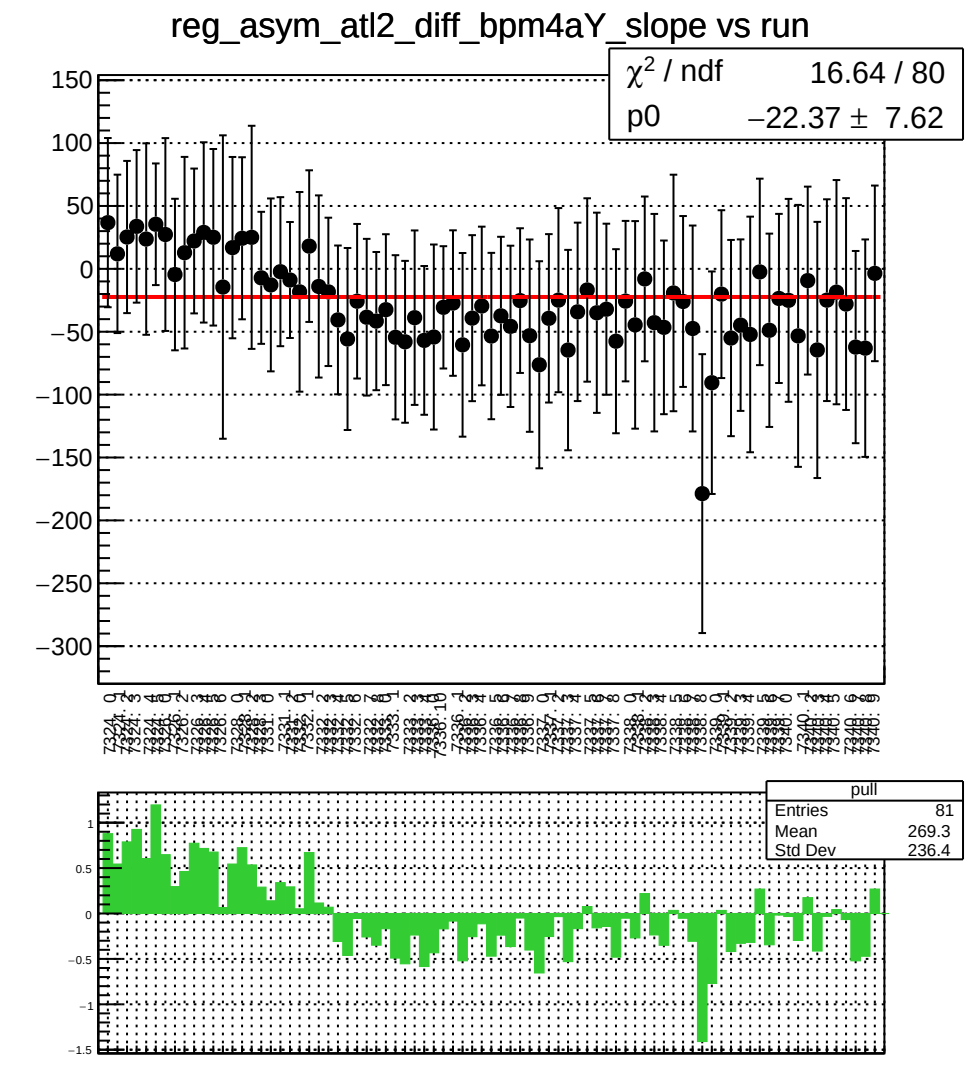

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 62.09 / 80
p0 −3.633 ± 1.862
pull
Entries 81
Mean −656.1
Std Dev 693.5

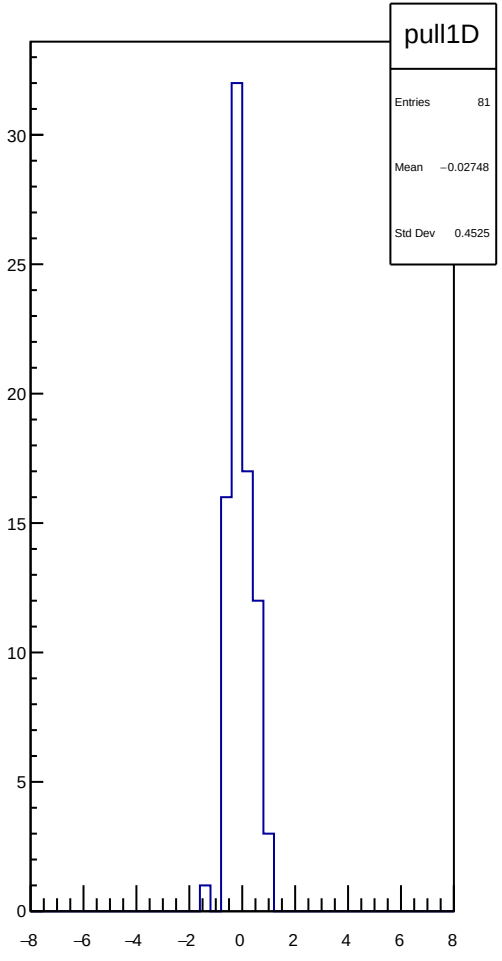

pull1D
Entries 81
Mean −0.008298
Std Dev 0.8755

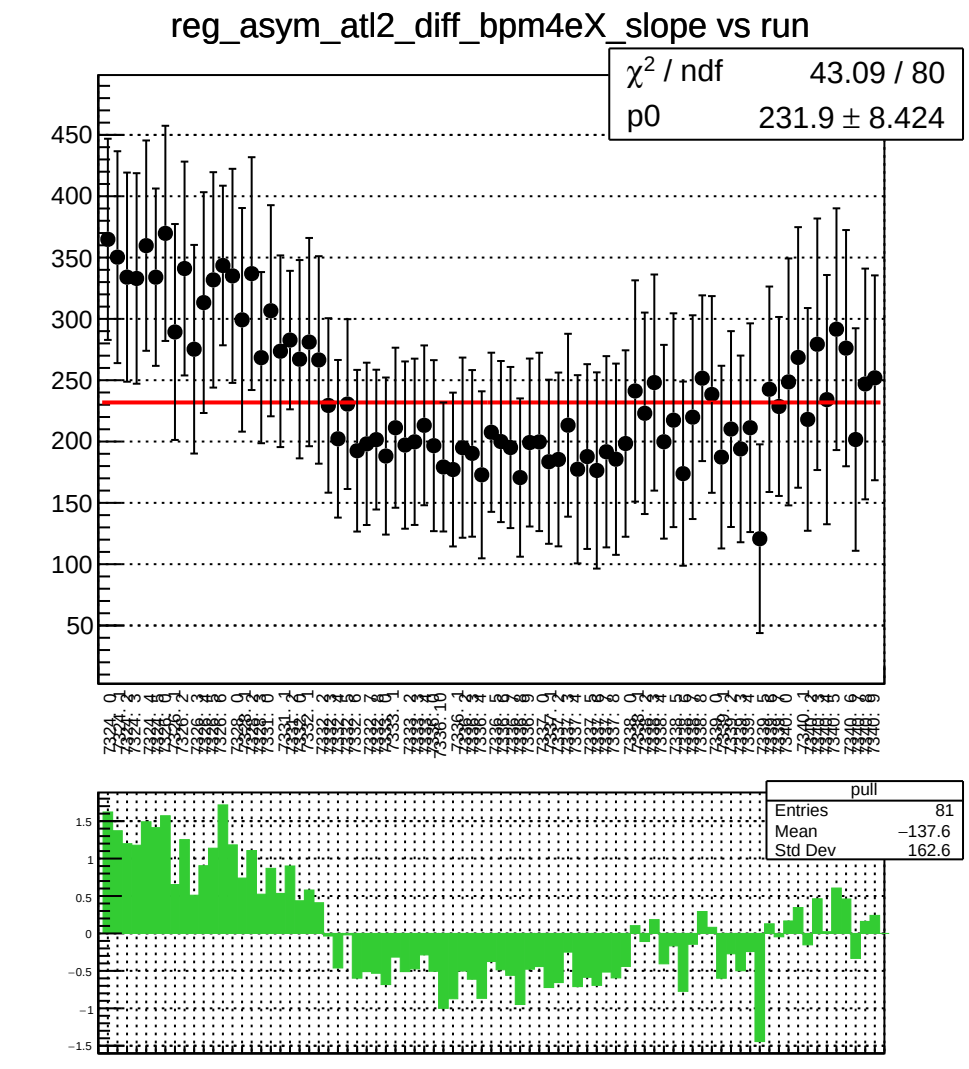

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 279.3 / 80
p0 −12.14 ± 0.0914
pull
Entries 81
Mean 227.3
Std Dev 187.6
pull1D
Entries 81
Mean −0.2314
Std Dev 1.397

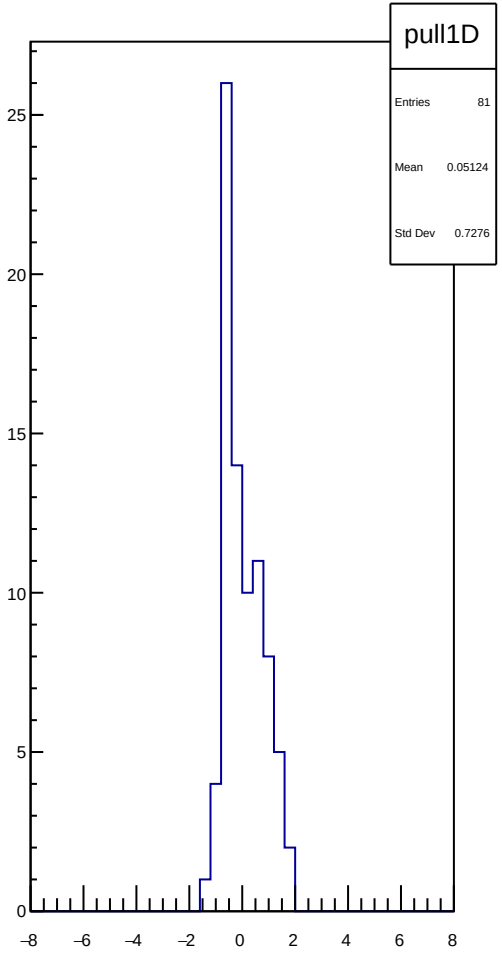

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 42.92 / 80
p0 −284.9 ± 8.49
pull
Entries 81
Mean −130.3
Std Dev 154.5

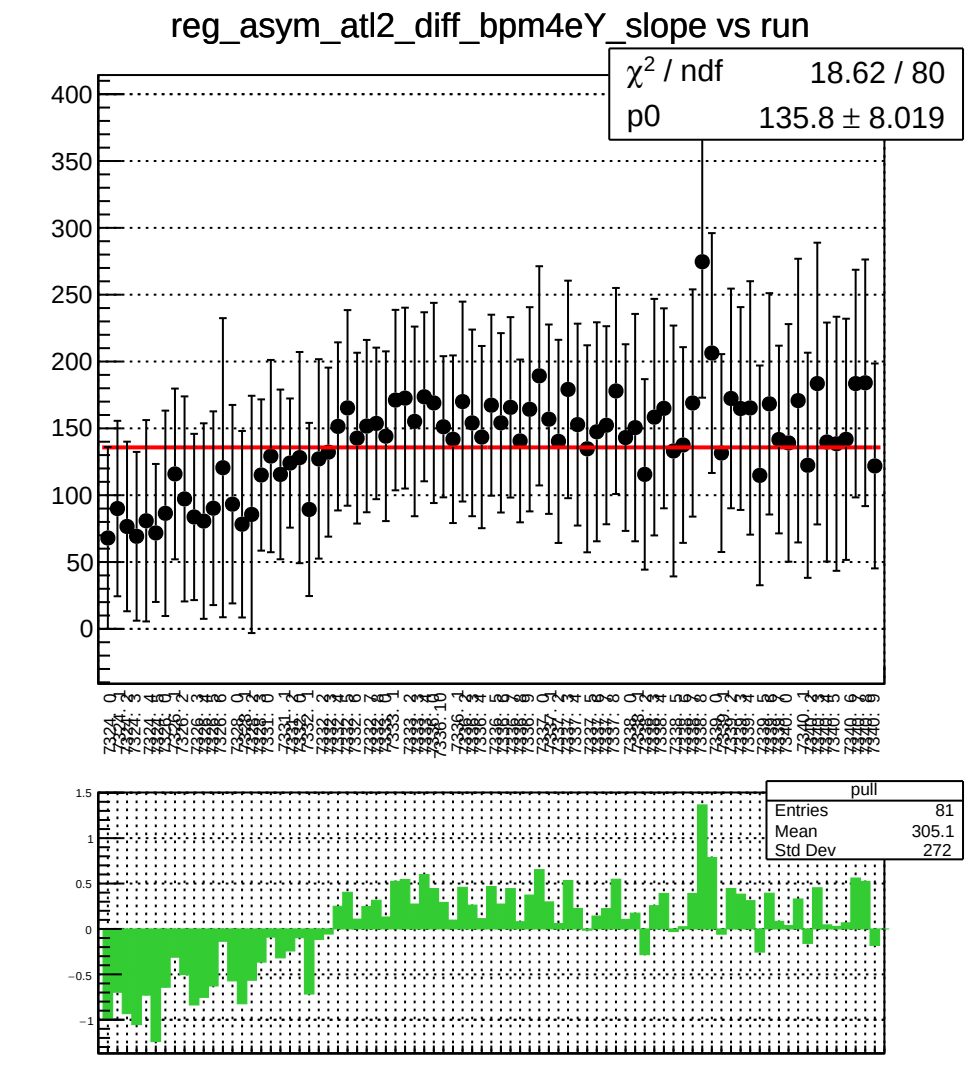

pull1D
Entries 81
Mean −0.05144
Std Dev 0.7261

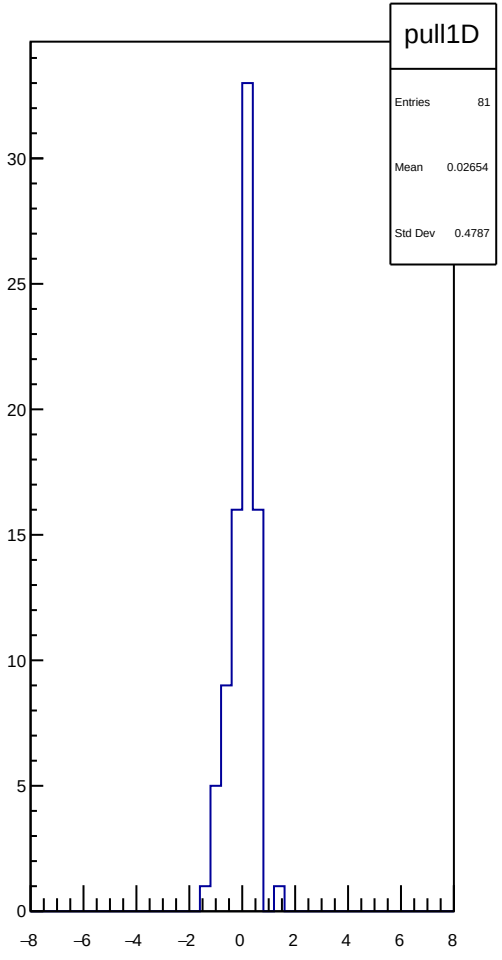

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 16.64 / 80
p0 −22.37 ± 7.62
pull
Entries 81
Mean 269.3
Std Dev 236.4

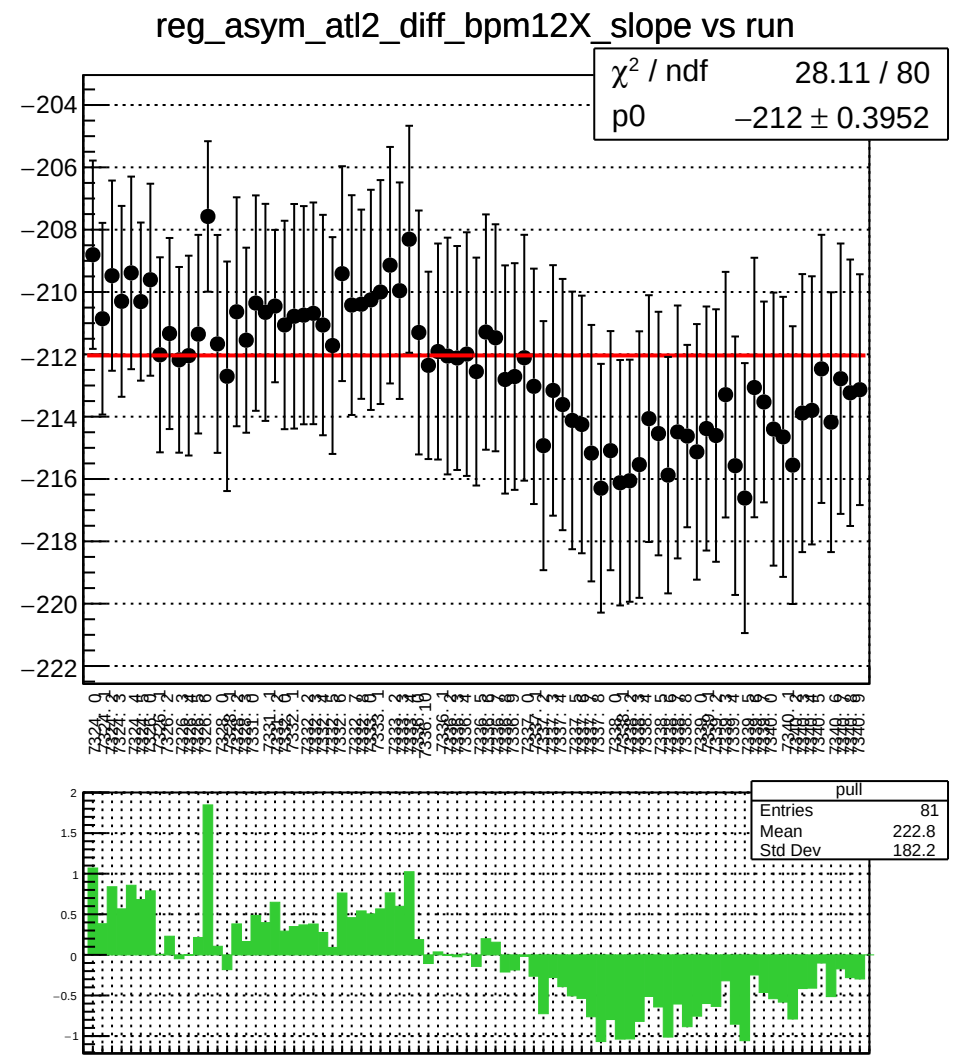

pull1D
Entries 81
Mean −0.02748
Std Dev 0.4525

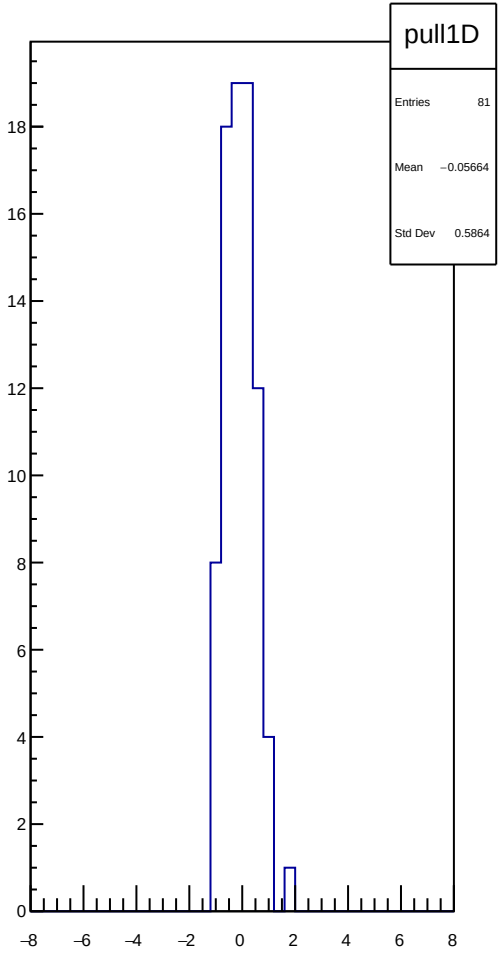

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 43.09 / 80
p0 231.9 ± 8.424
pull
Entries 81
Mean −137.6
Std Dev 162.6

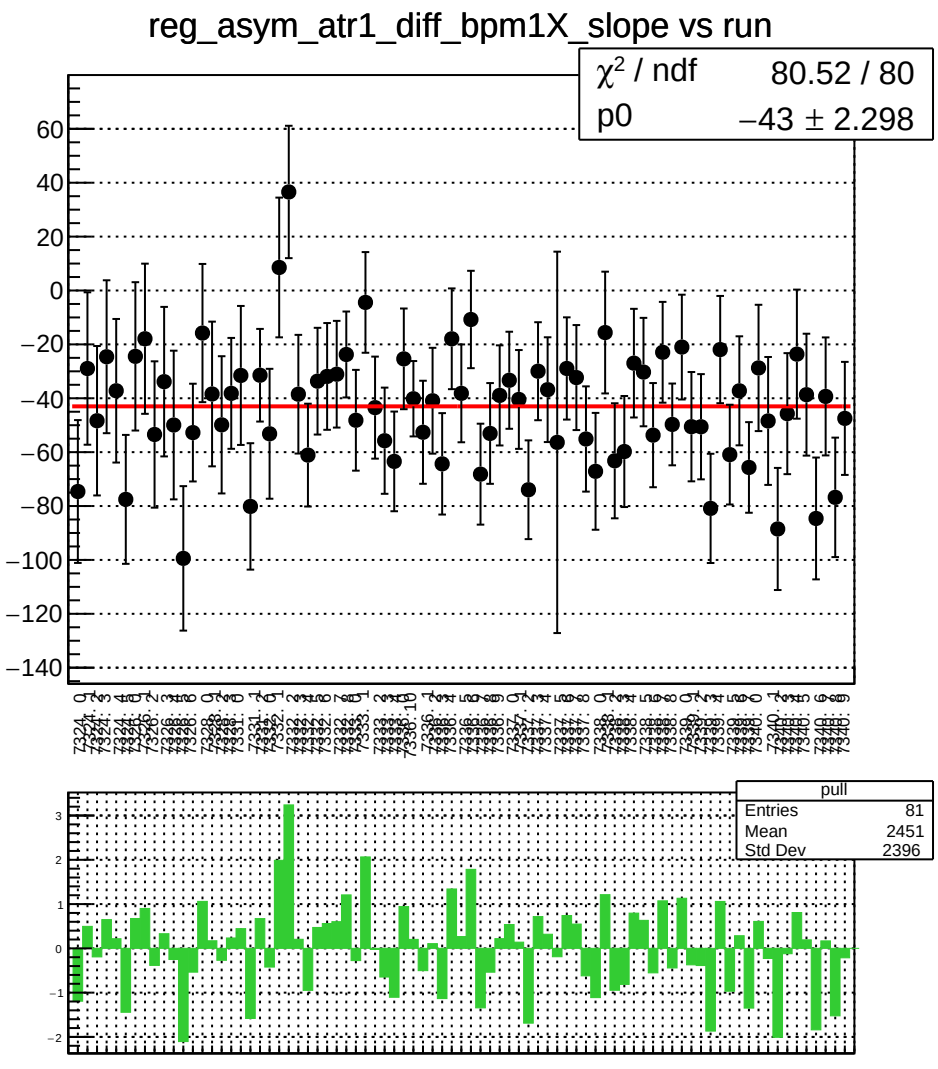

pull1D
Entries 81
Mean 0.05124
Std Dev 0.7276

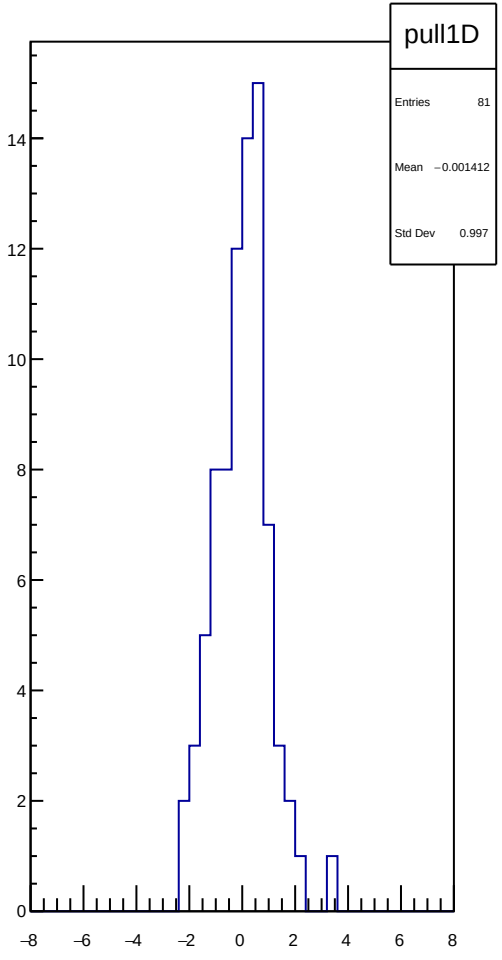

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 18.62 / 80
p0 135.8 ± 8.019
pull
Entries 81
Mean 305.1
Std Dev 272

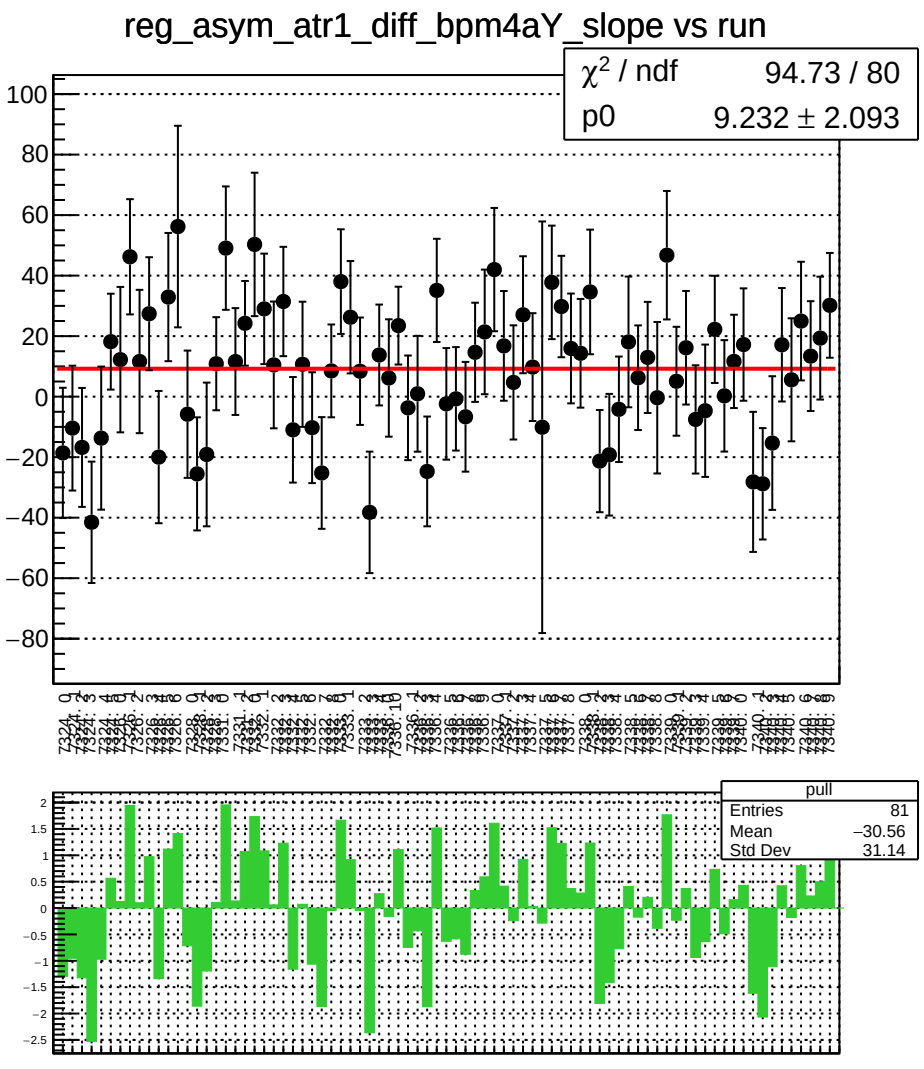

pull1D
Entries 81
Mean 0.02654
Std Dev 0.4787

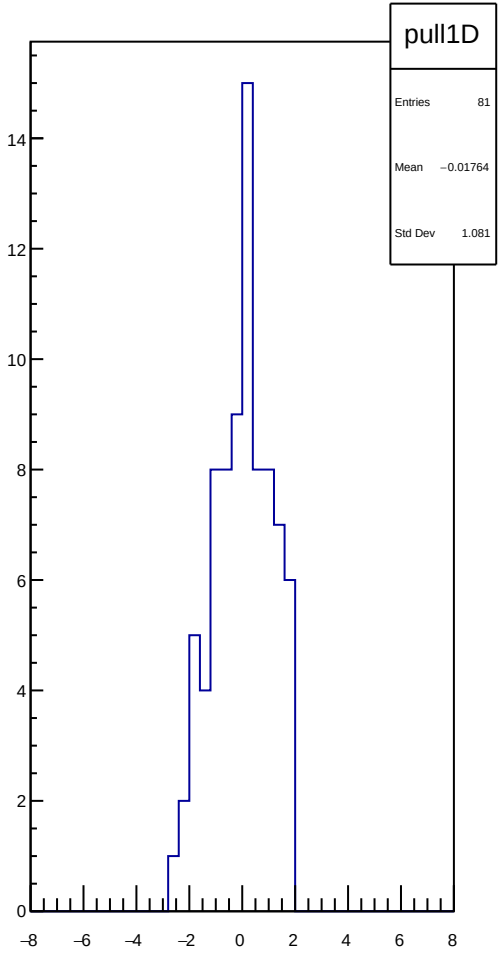

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 28.11 / 80
p0 −212 ± 0.3952
pull
Entries 81
Mean 222.8
Std Dev 182.2

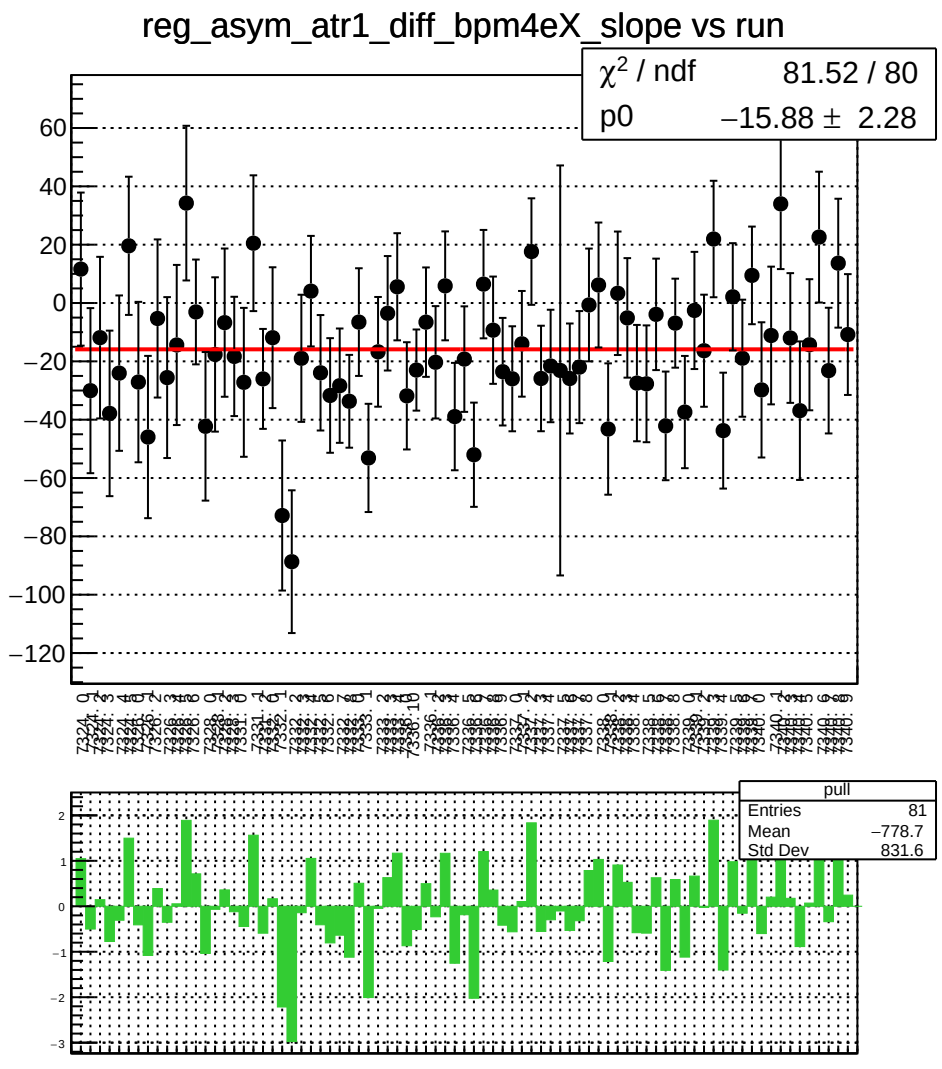

pull1D
Entries 81
Mean −0.05664
Std Dev 0.5864

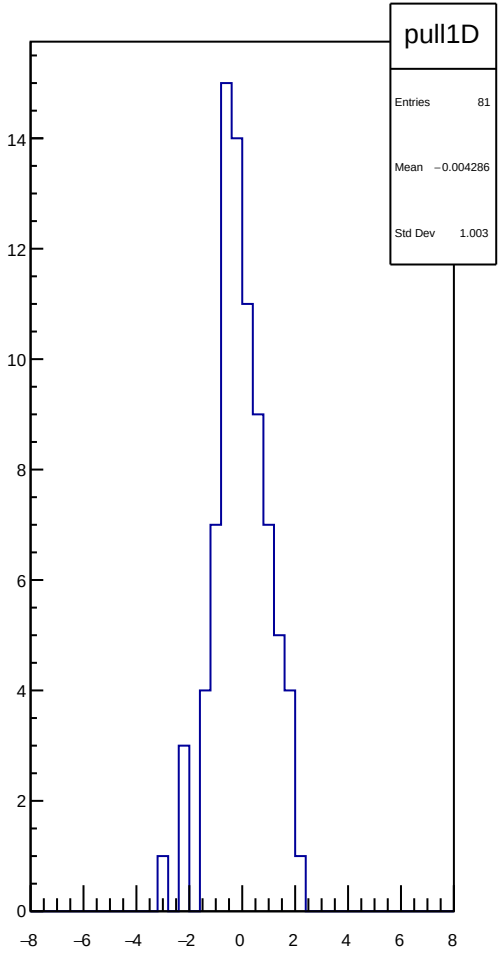

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 80.52 / 80
p0 −43 ± 2.298
pull
Entries 81
Mean 2451
Std Dev 2396

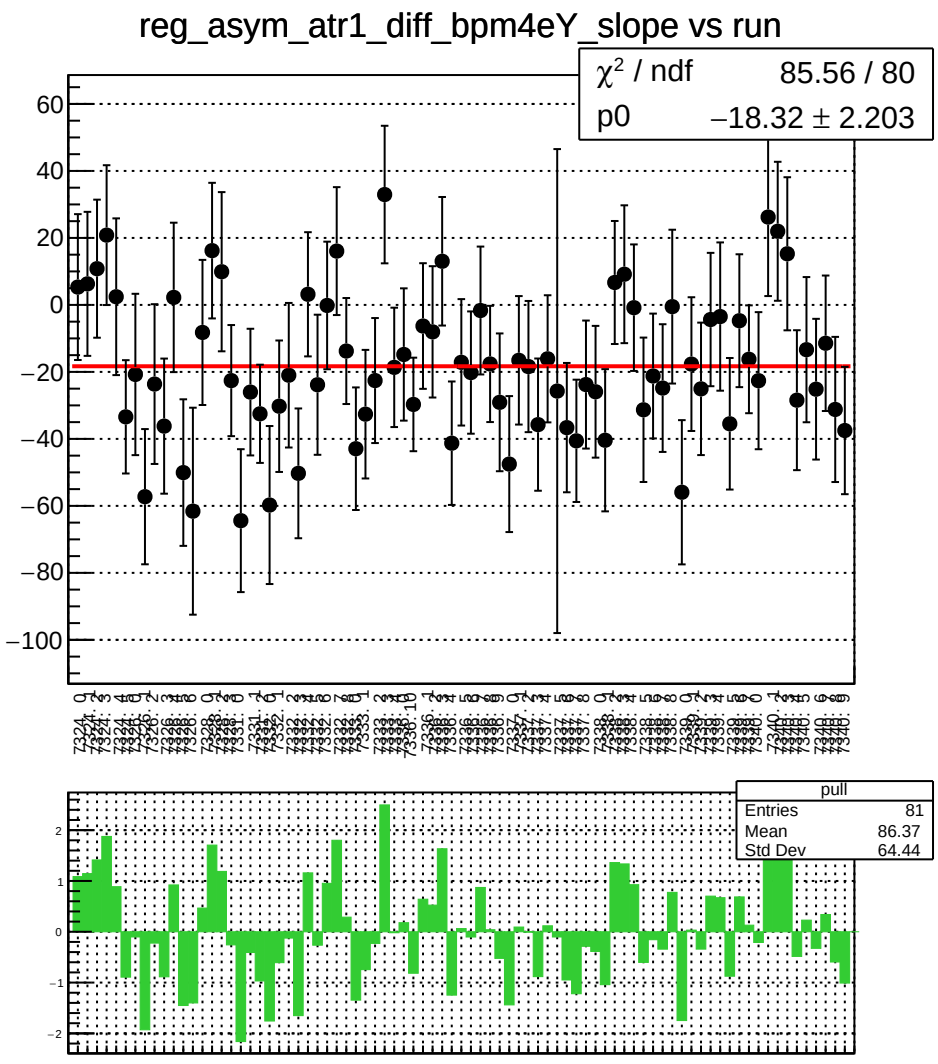

pull1D
Entries 81
Mean −0.001412
Std Dev 0.997

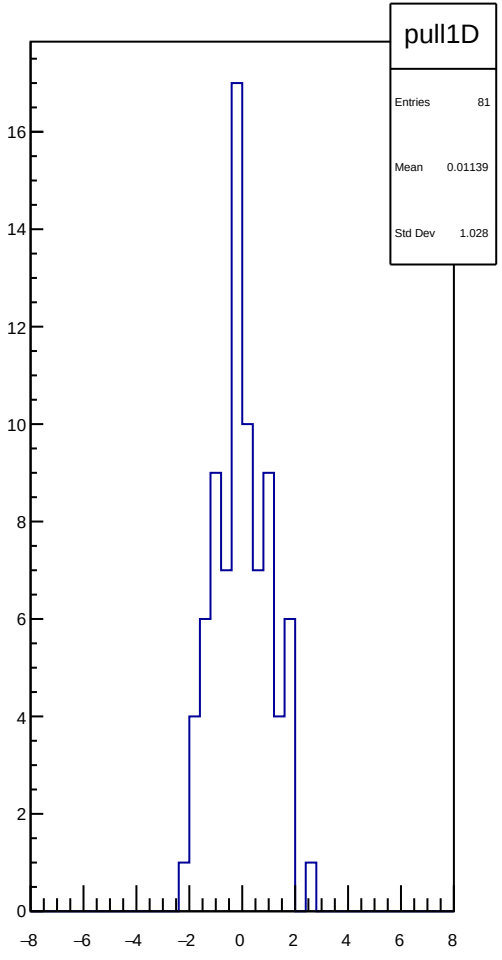

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 94.73 / 80
p0 9.232 ± 2.093
pull
Entries 81
Mean −30.56
Std Dev 31.14

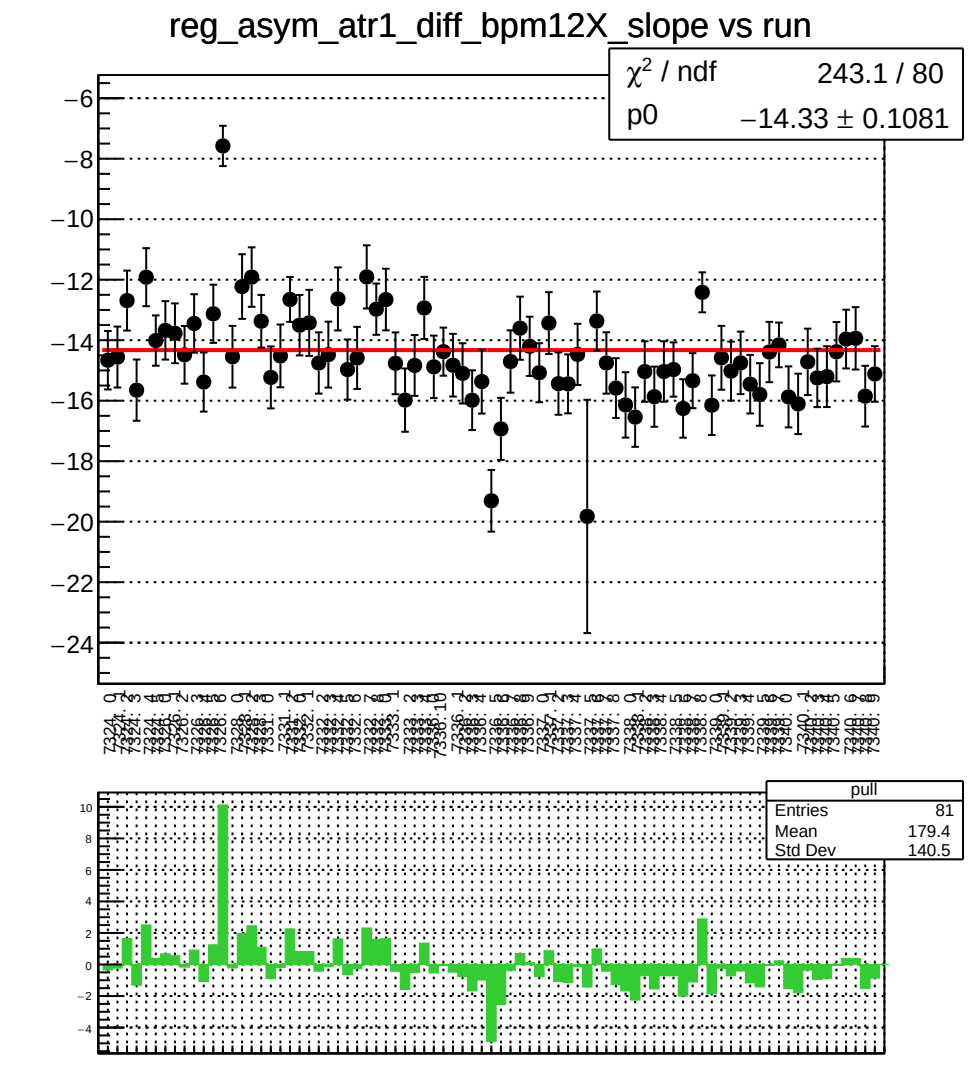

pull1D
Entries 81
Mean −0.01764
Std Dev 1.081

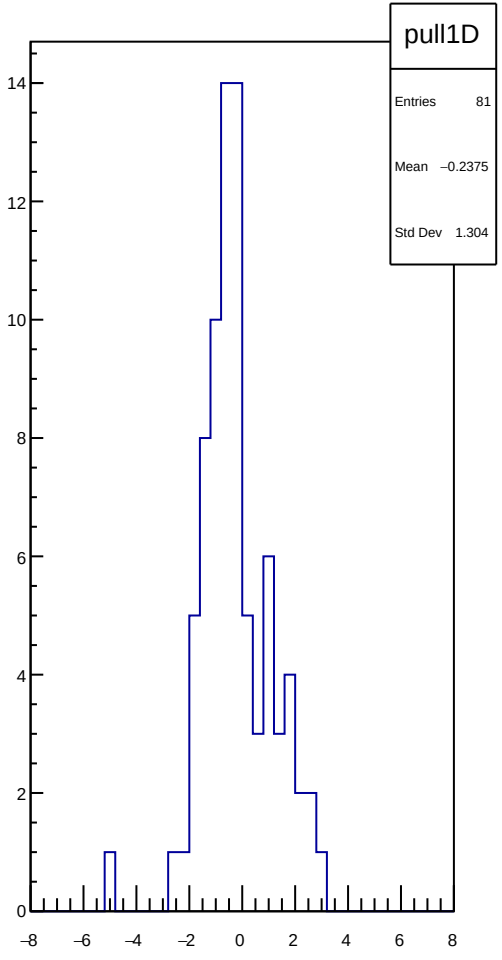

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 81.52 / 80
p0 −15.88 ± 2.28
pull
Entries 81
Mean −778.7
Std Dev 831.6

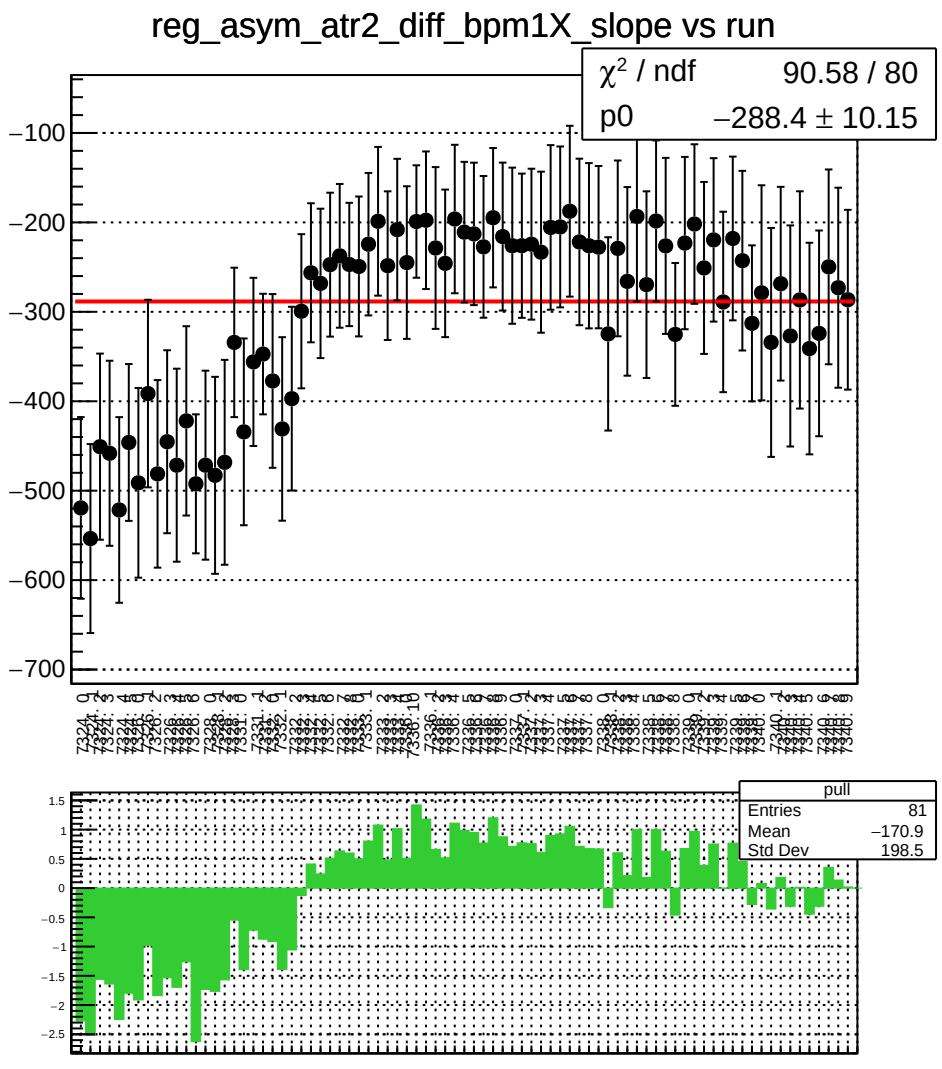

pull1D
Entries 81
Mean −0.004286
Std Dev 1.003

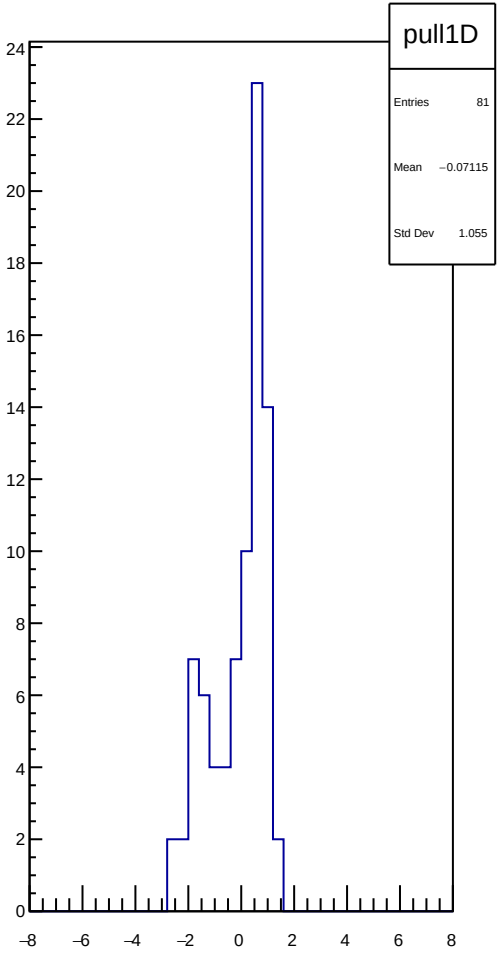

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 85.56 / 80
p0 −18.32 ± 2.203
pull
Entries 81
Mean 86.37
Std Dev 64.44

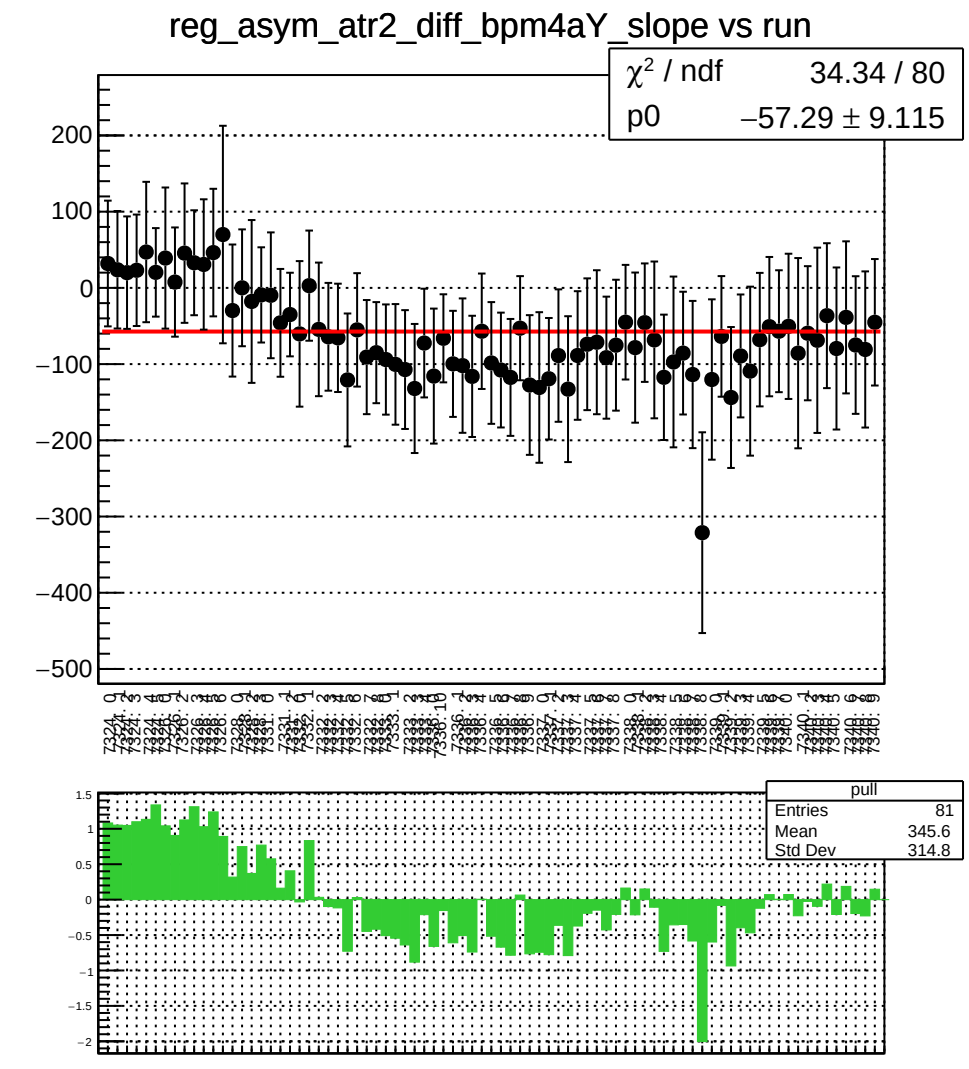

pull1D
Entries 81
Mean 0.01139
Std Dev 1.028

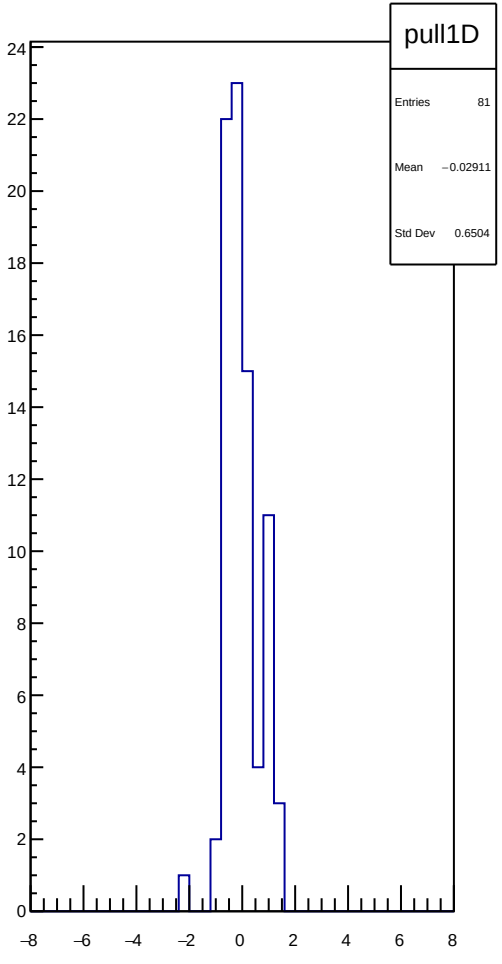

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 243.1 / 80
p0 −14.33 ± 0.1081
pull
Entries 81
Mean 179.4
Std Dev 140.5

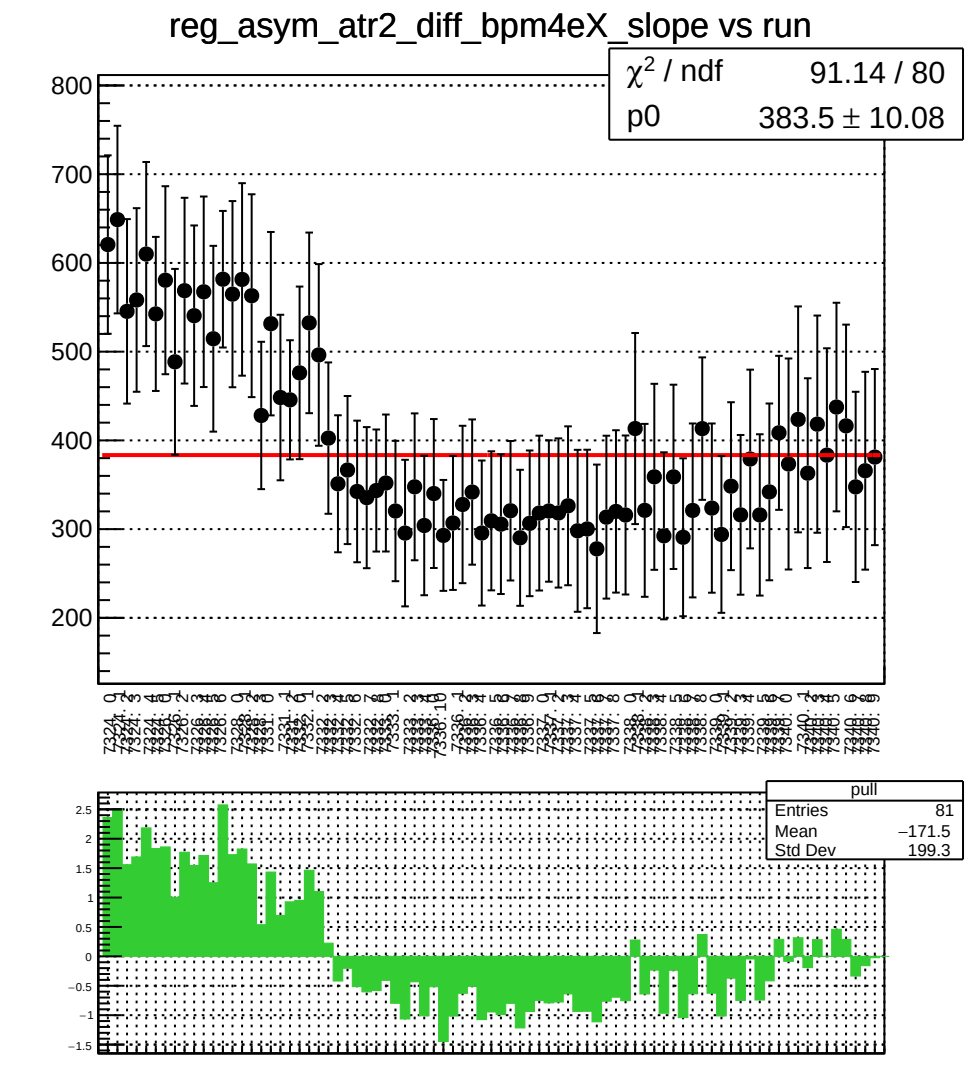

pull1D
Entries 81
Mean −0.2375
Std Dev 1.304

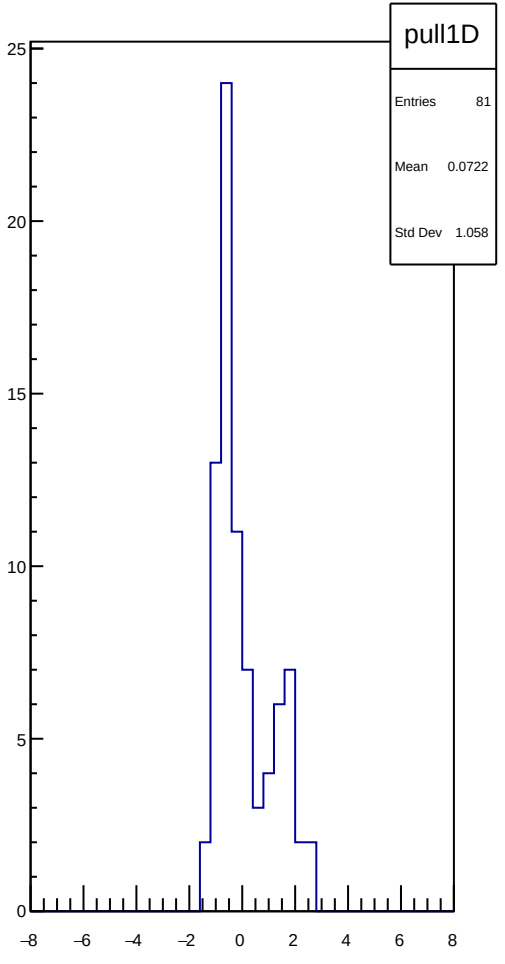

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 90.58 / 80
p0 −288.4 ± 10.15
pull
Entries 81
Mean −170.9
Std Dev 198.5

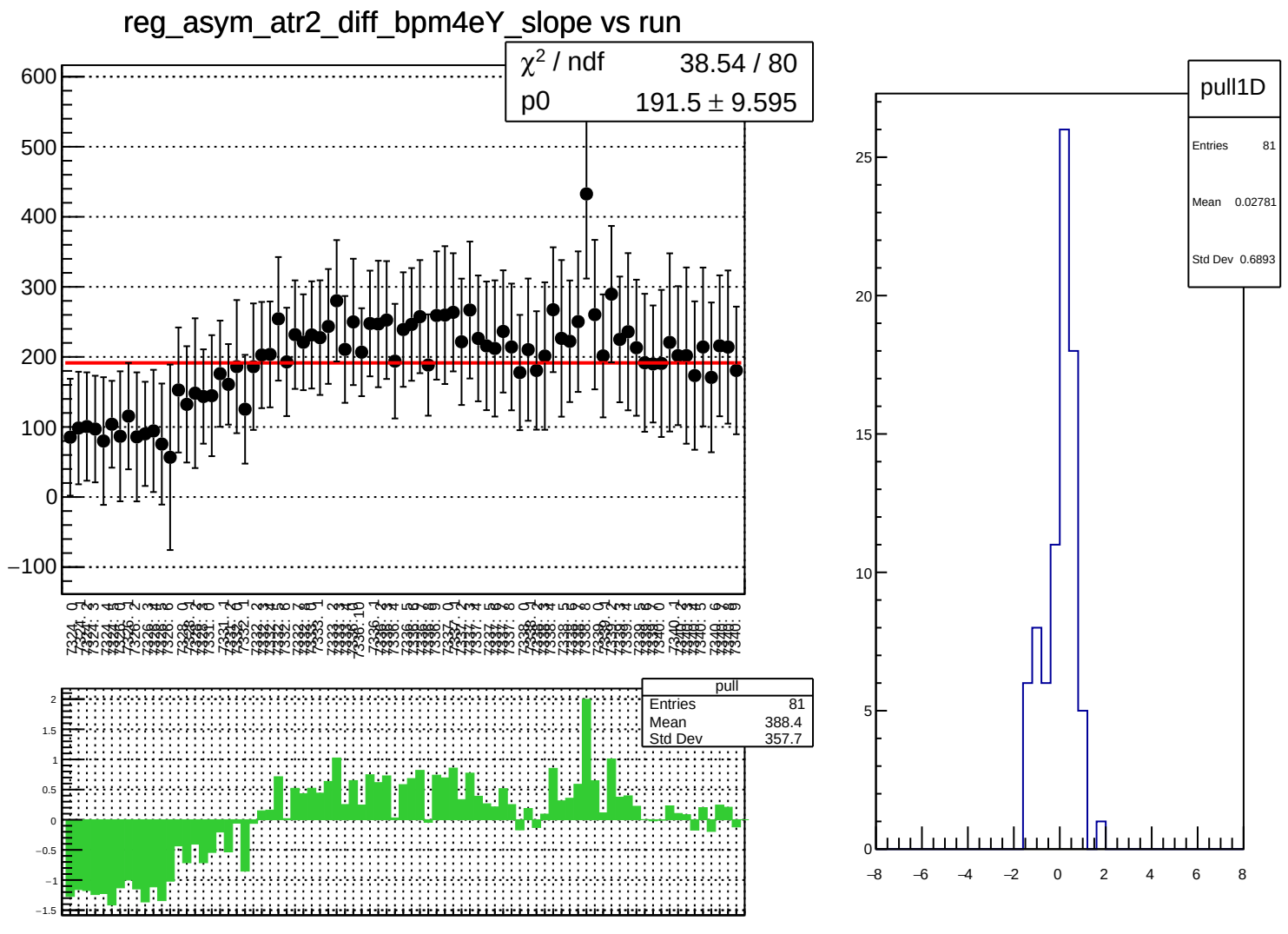

pull1D
Entries 81
Mean −0.07115
Std Dev 1.055

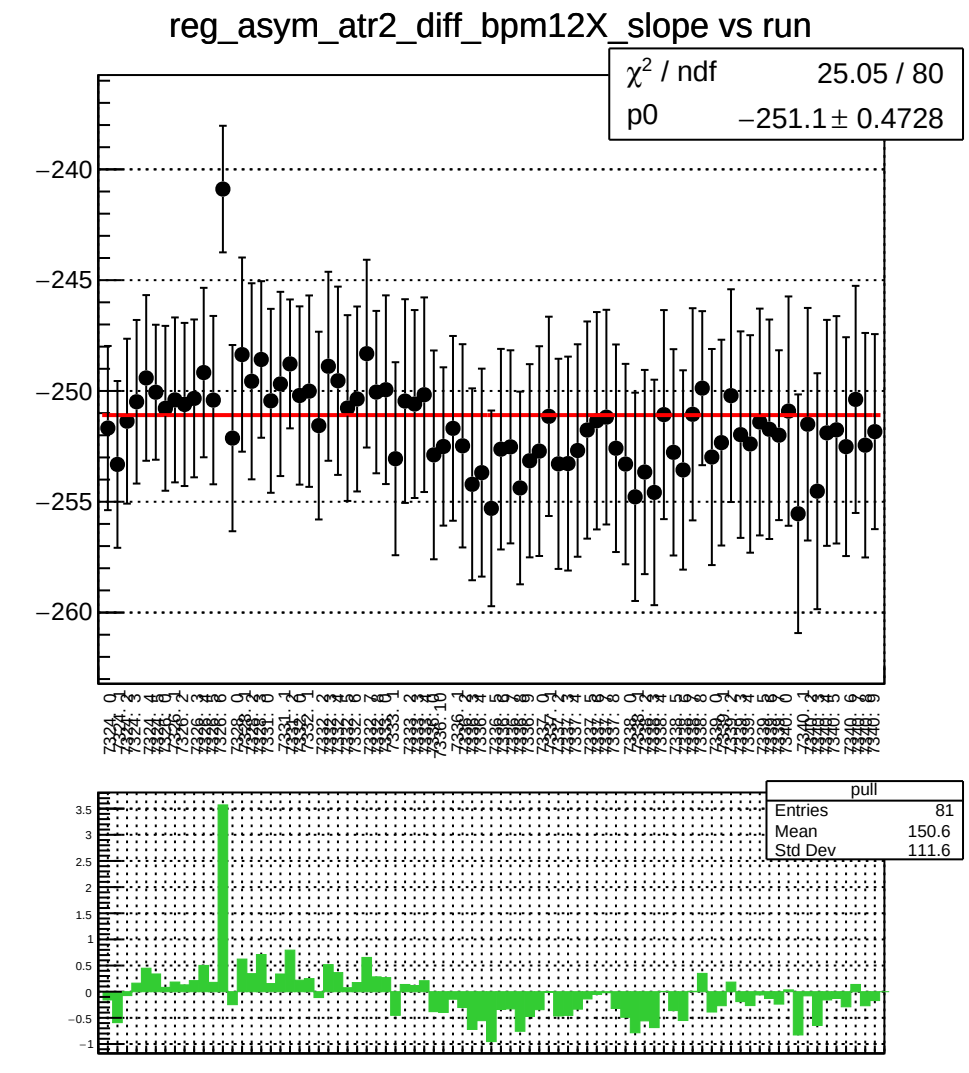

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 34.34 / 80
p0 −57.29 ± 9.115
pull
Entries 81
Mean 345.6
Std Dev 314.8

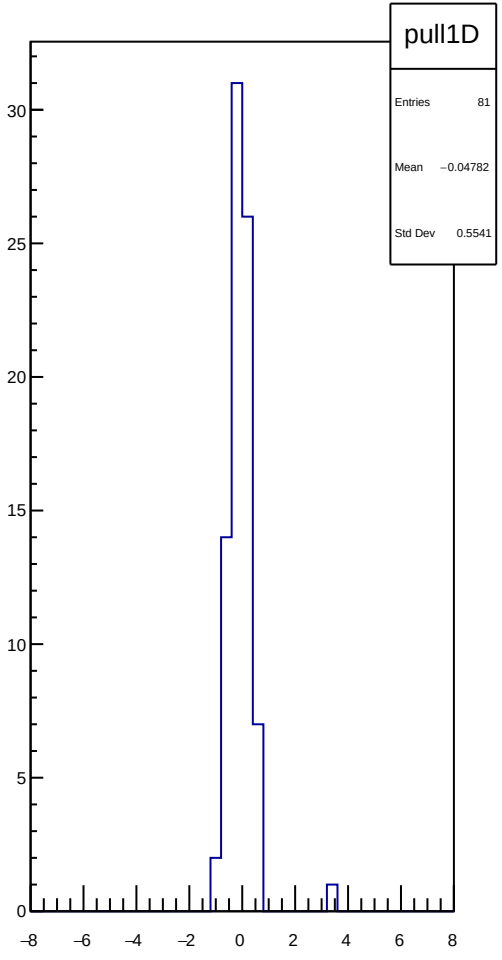

pull1D
Entries 81
Mean −0.02911
Std Dev 0.6504

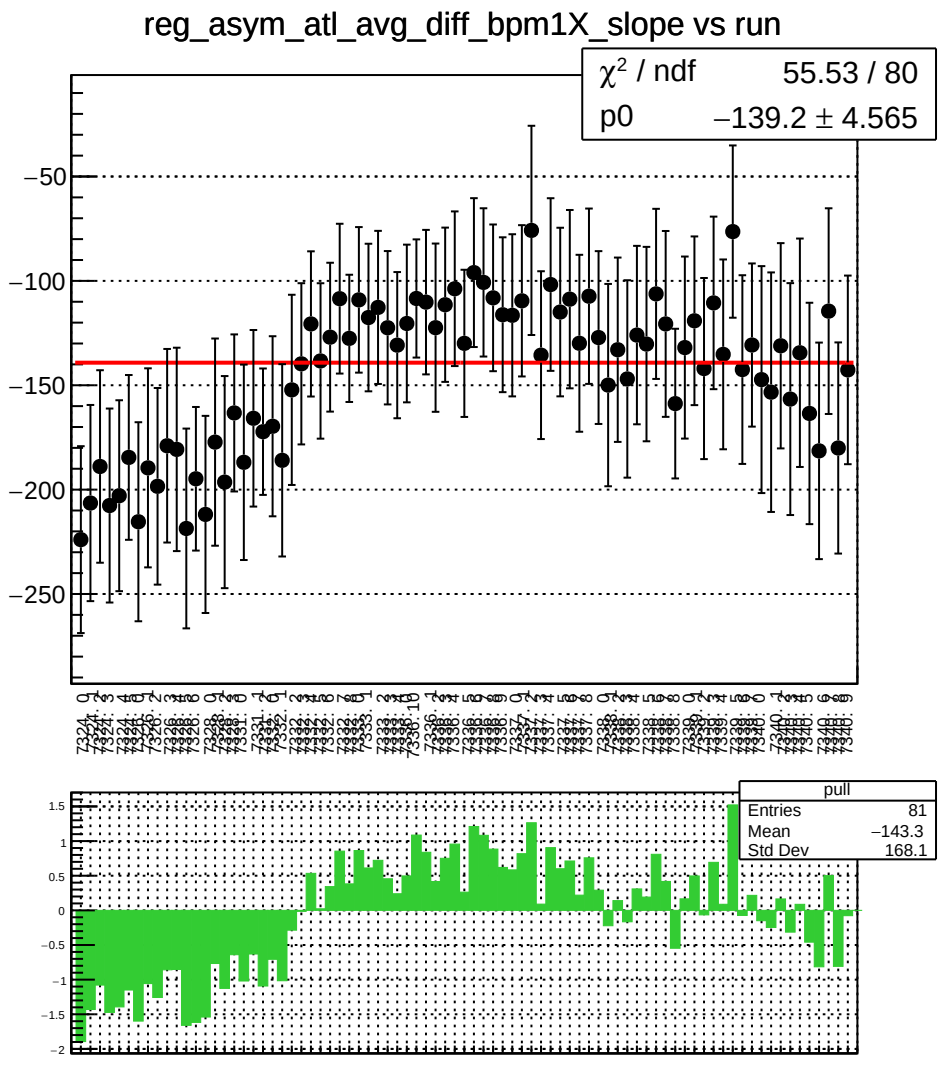

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 91.14 / 80
p0 383.5 ± 10.08
pull
Entries 81
Mean −171.5
Std Dev 199.3

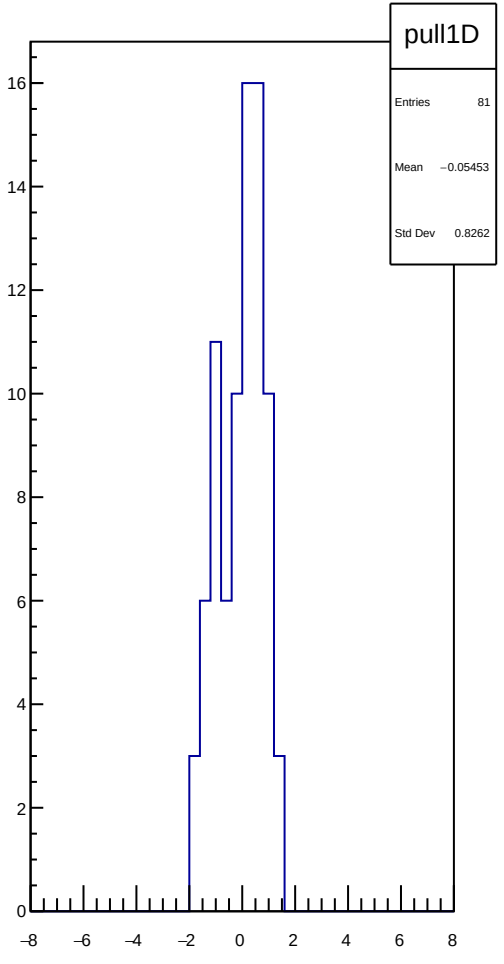

pull1D
Entries 81
Mean 0.0722
Std Dev 1.058

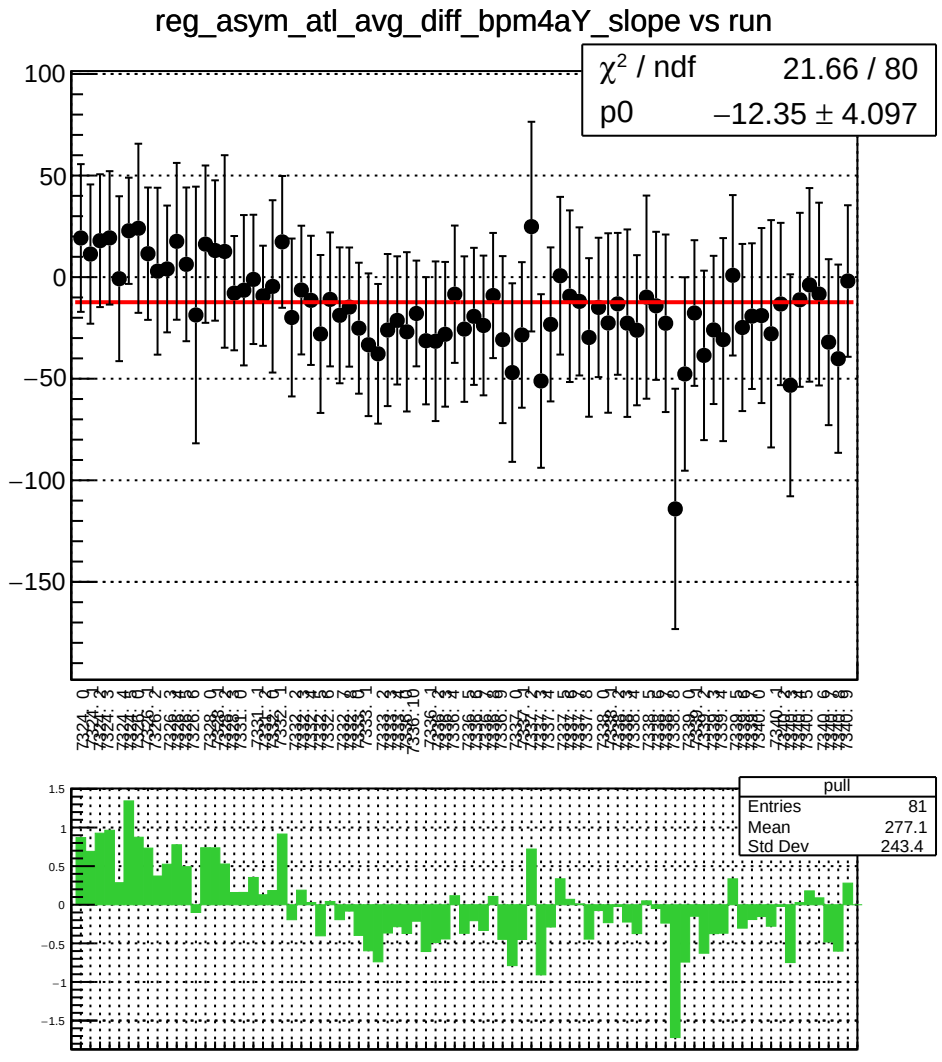

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 38.54 / 80
p0 191.5 ± 9.595
pull
Entries 81
Mean 388.4
Std Dev 357.7
pull1D
Entries 81
Mean 0.02781
Std Dev 0.6893

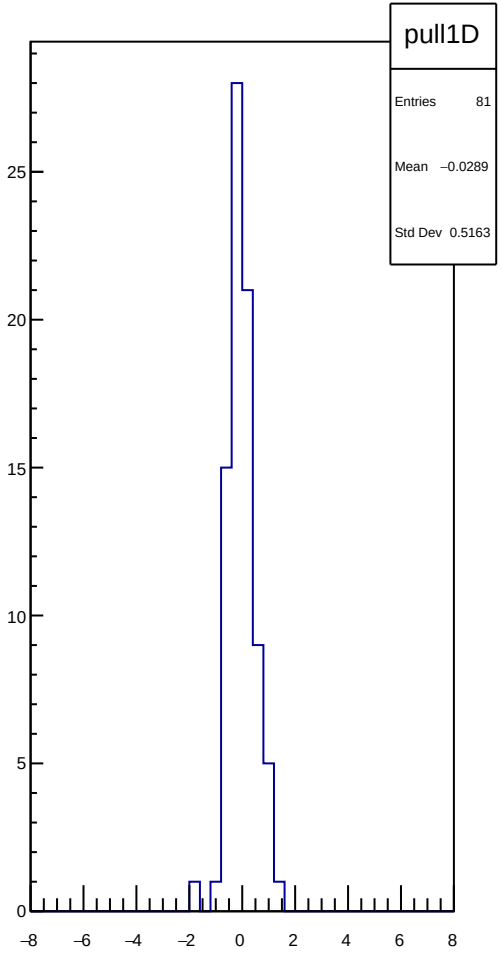

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 25.05 / 80
p0 −251.1 ± 0.4728
−240
−245
−250
−255
−260
pull
Entries 81
Mean 150.6
Std Dev 111.6
3.5
3
2.5
2
1.5
1
0.5
0
−0.5
−1

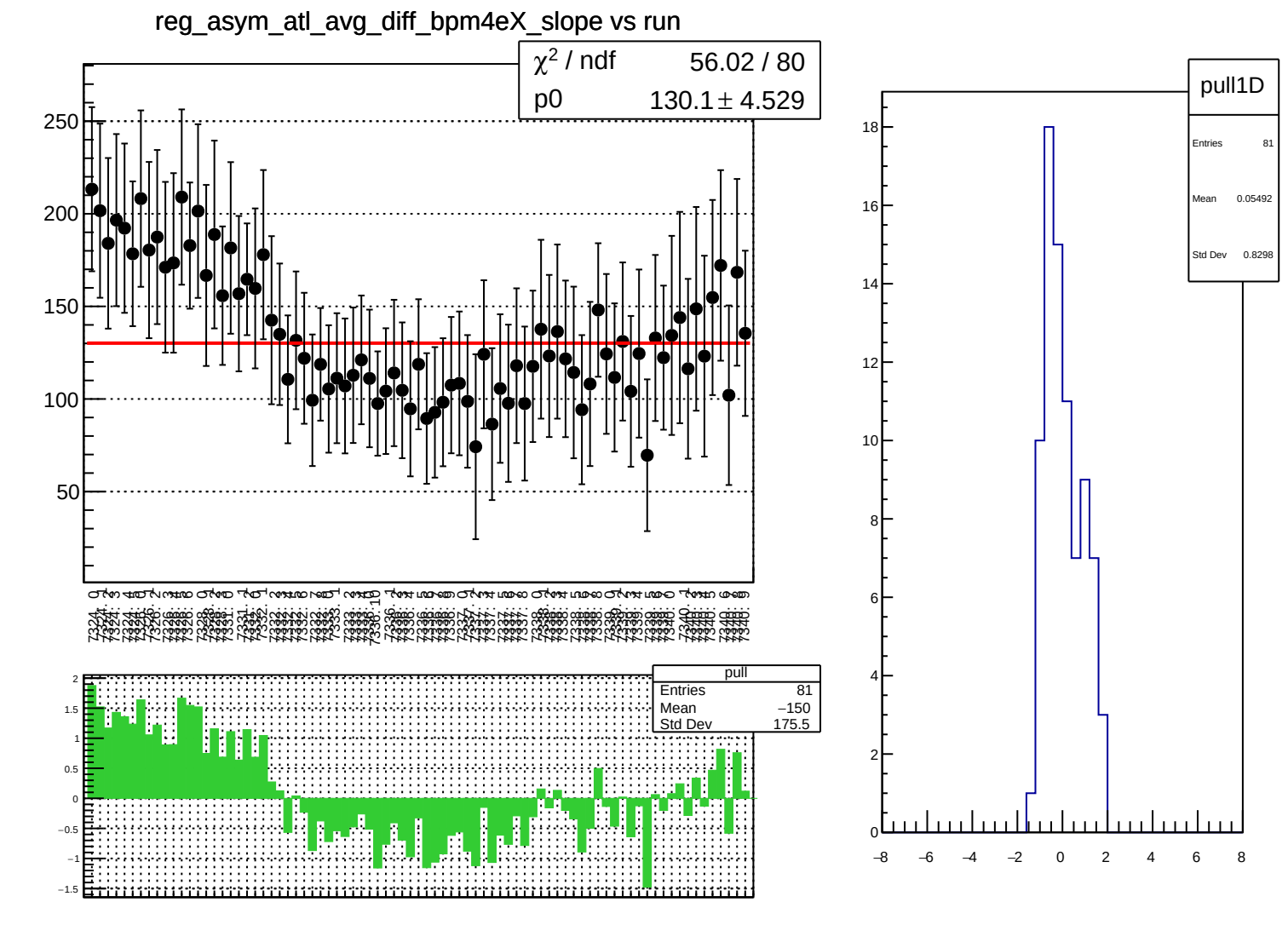

pull1D
Entries 81
Mean −0.04782
Std Dev 0.5541
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

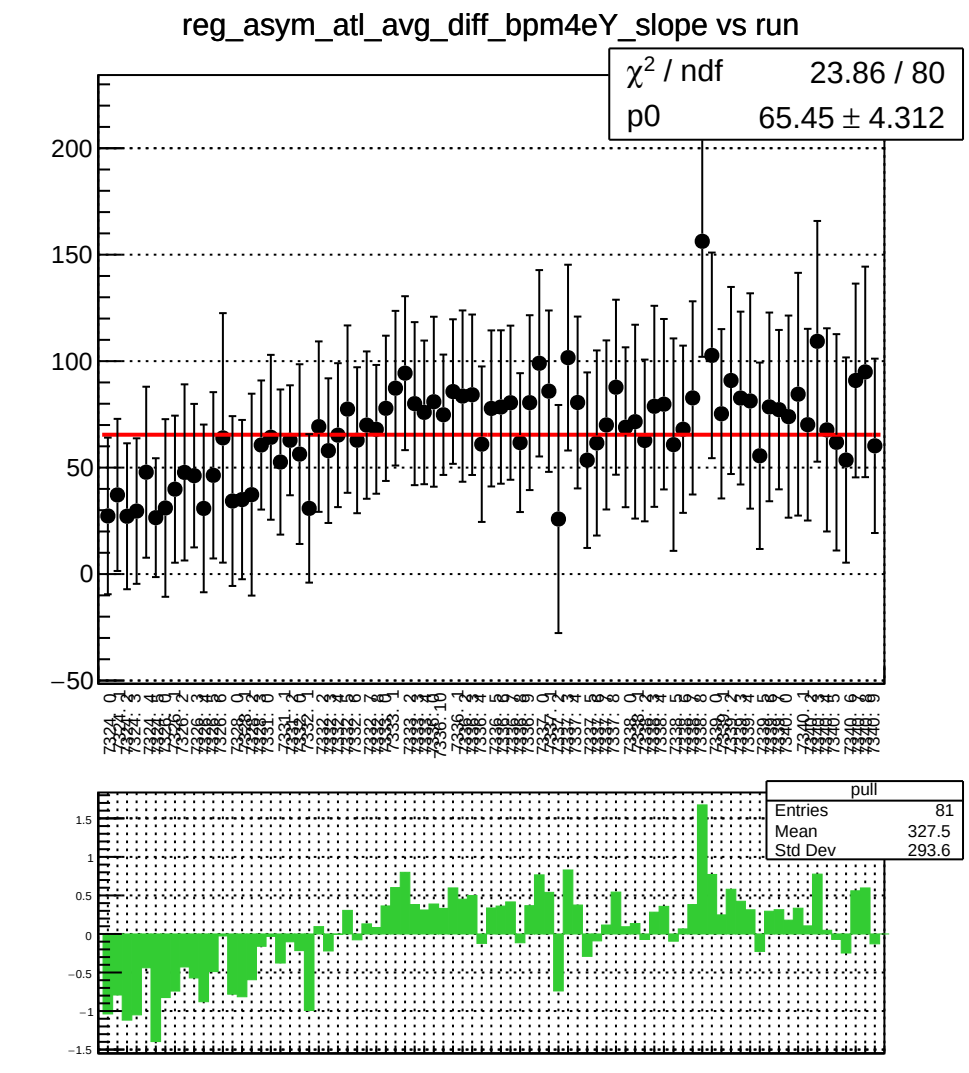

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 55.53 / 80
p0 −139.2 ± 4.565
pull
Entries 81
Mean −143.3
Std Dev 168.1

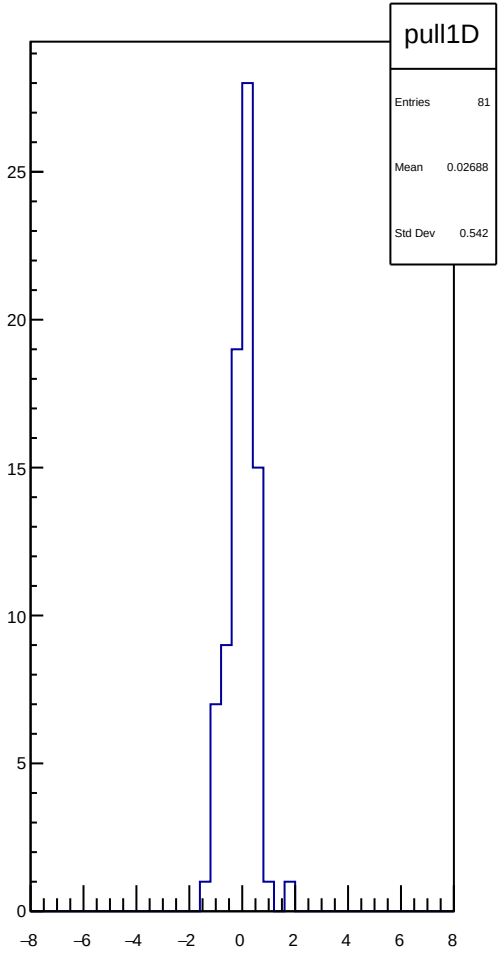

pull1D
Entries 81
Mean −0.05453
Std Dev 0.8262

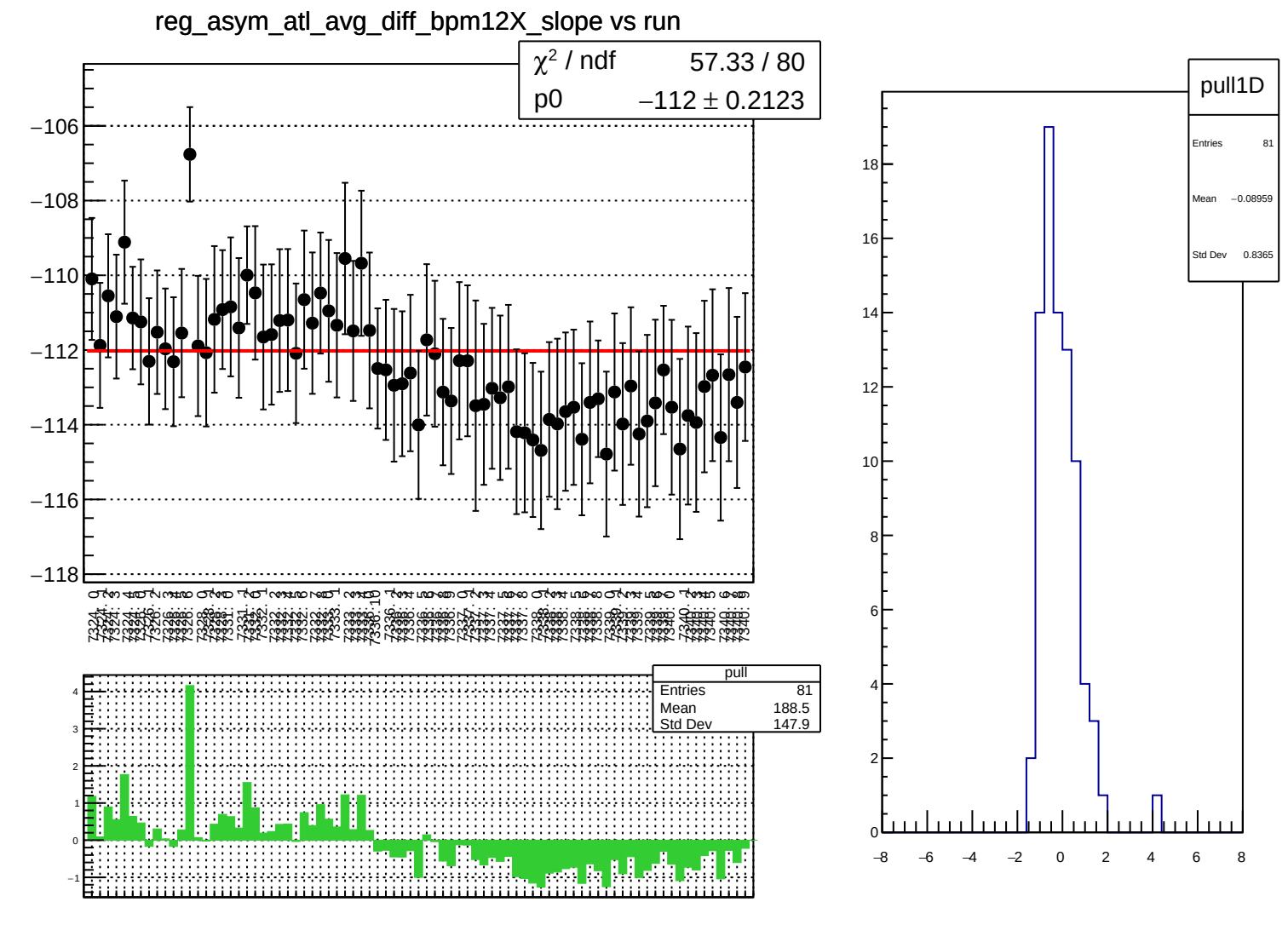

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 21.66 / 80
p0 −12.35 ± 4.097
pull
Entries 81
Mean 277.1
Std Dev 243.4

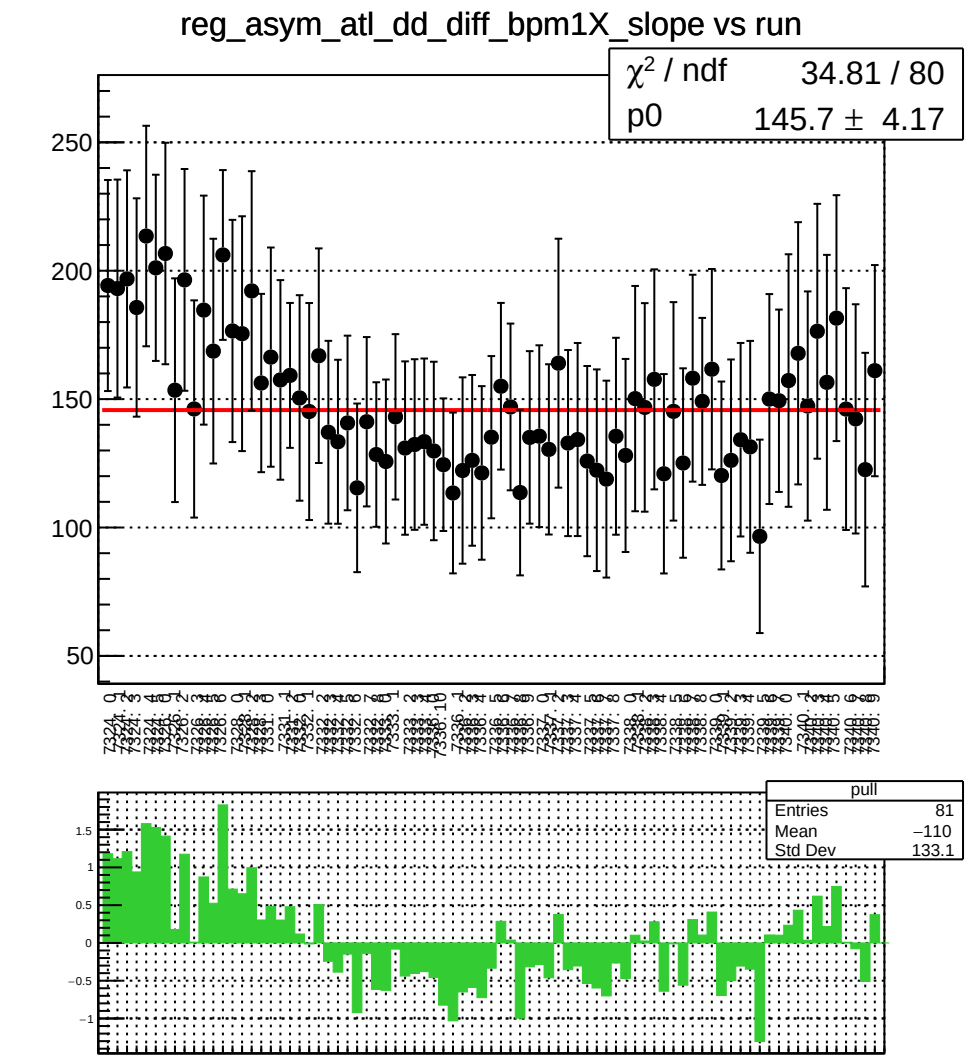

pull1D
Entries 81
Mean −0.0289
Std Dev 0.5163

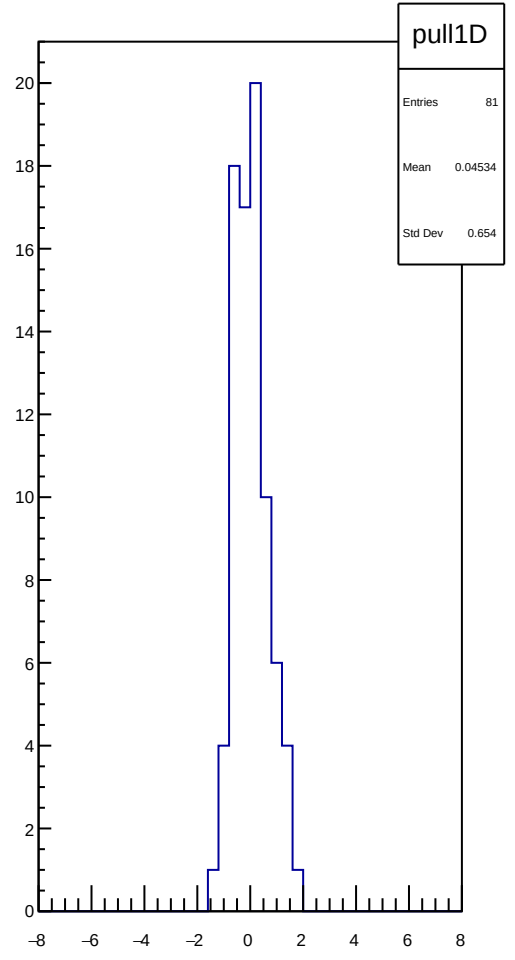

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.02 / 80
p0 130.1 ± 4.529
pull
Entries 81
Mean −150
Std Dev 175.5
pull1D
Entries 81
Mean 0.05492
Std Dev 0.8298

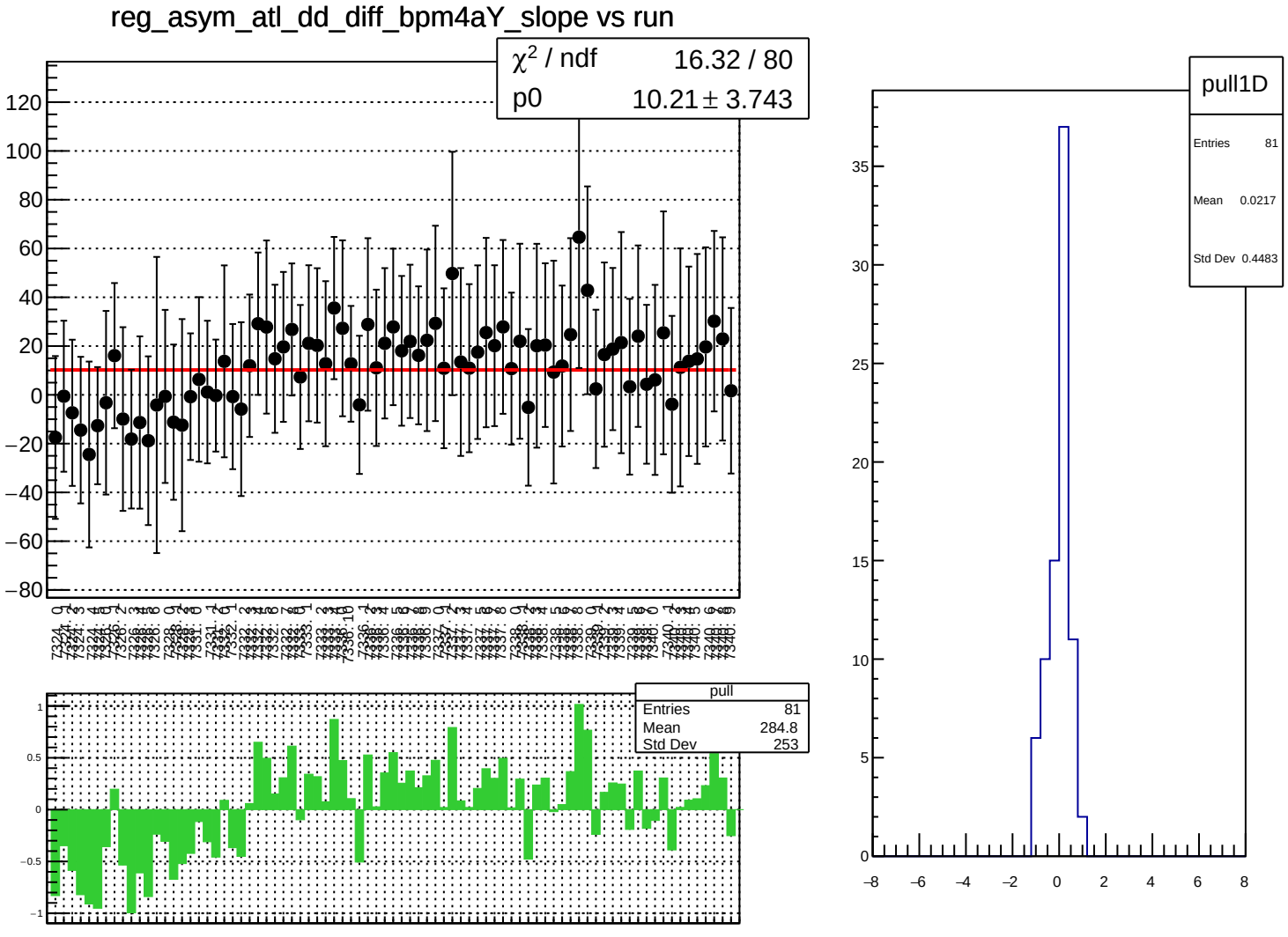

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.86 / 80
p0 65.45 ± 4.312
pull
Entries 81
Mean 327.5
Std Dev 293.6

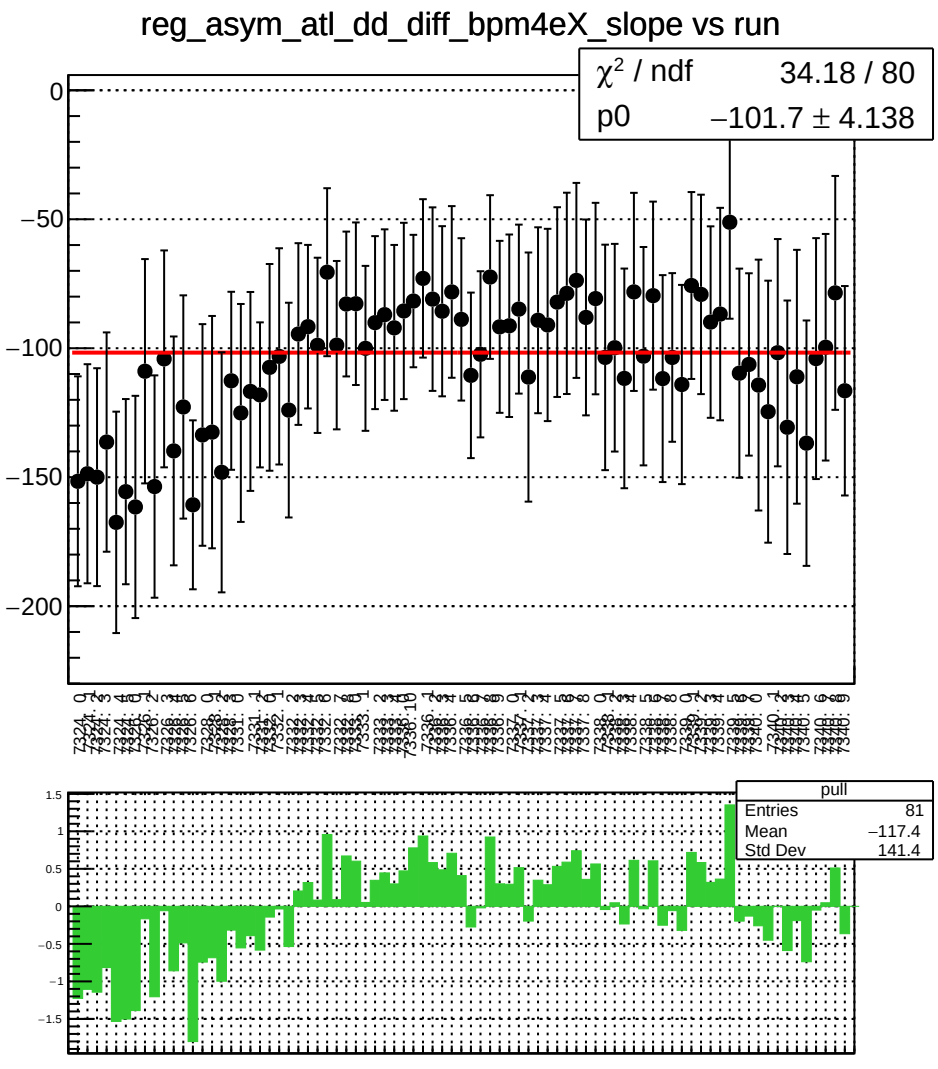

pull1D
Entries 81
Mean 0.02688
Std Dev 0.542

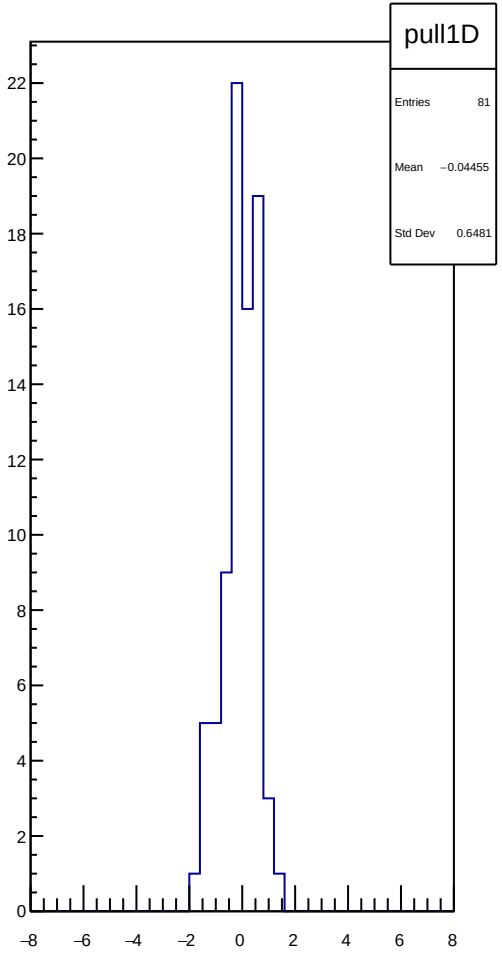

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 57.33 / 80
p0 −112 ± 0.2123
pull
Entries 81
Mean 188.5
Std Dev 147.9
pull1D
Entries 81
Mean −0.08959
Std Dev 0.8365

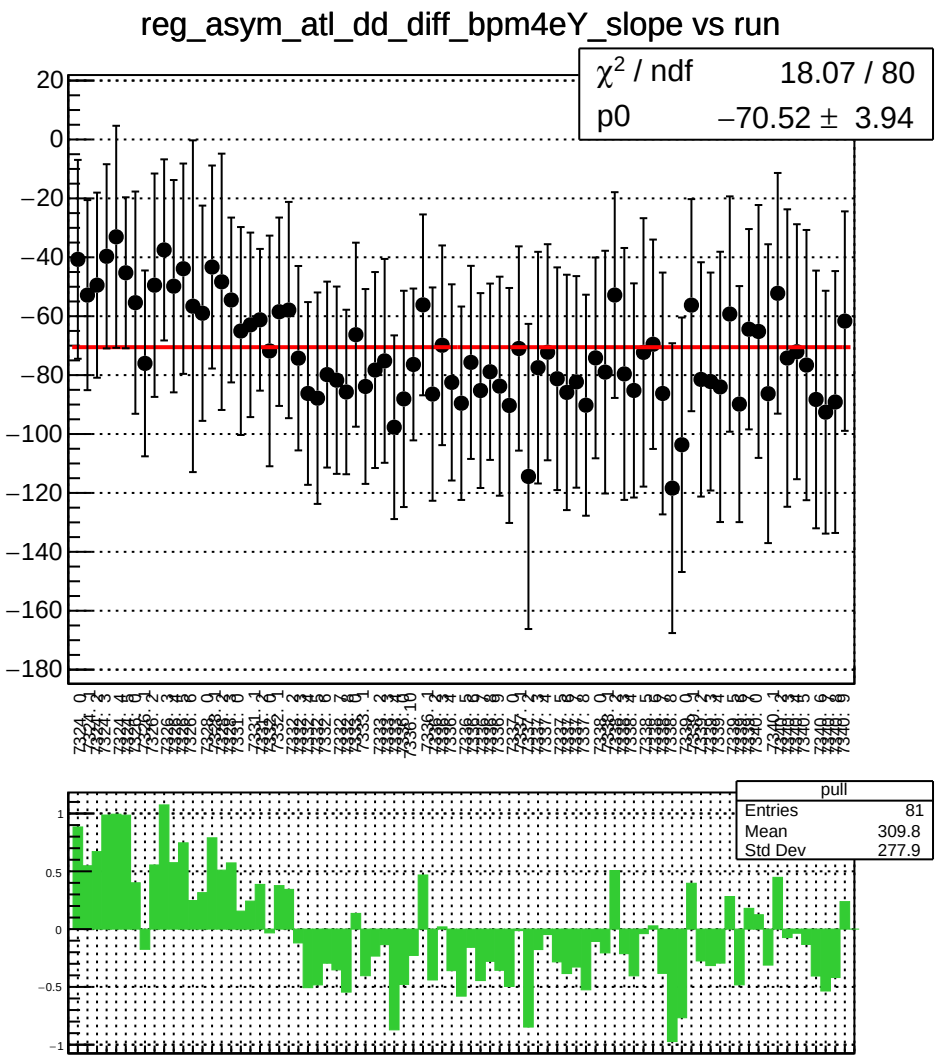

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 34.81 / 80
p0 145.7 ± 4.17
250
200
150
100
50
pull
Entries 81
Mean −110
Std Dev 133.1
1.5
1
0.5
0
−0.5
−1

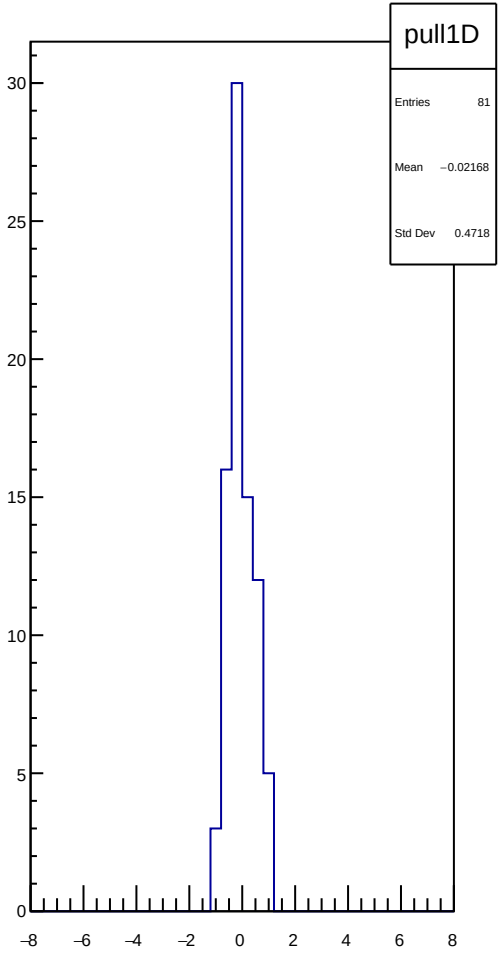

pull1D
Entries 81
Mean 0.04534
Std Dev 0.654
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

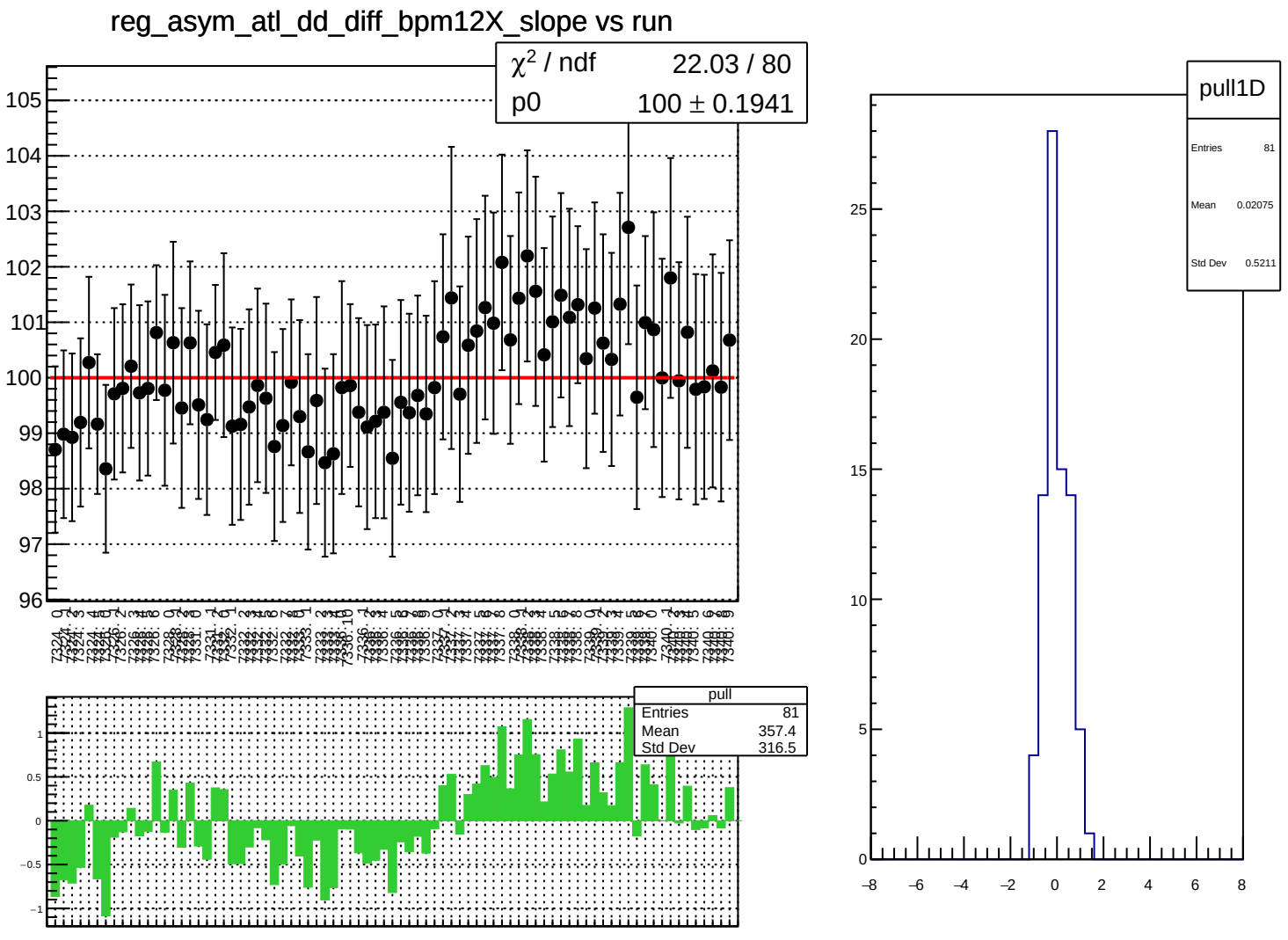

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.32 / 80
p0 10.21 ± 3.743
pull
Entries 81
Mean 284.8
Std Dev 253
pull1D
Entries 81
Mean 0.0217
Std Dev 0.4483

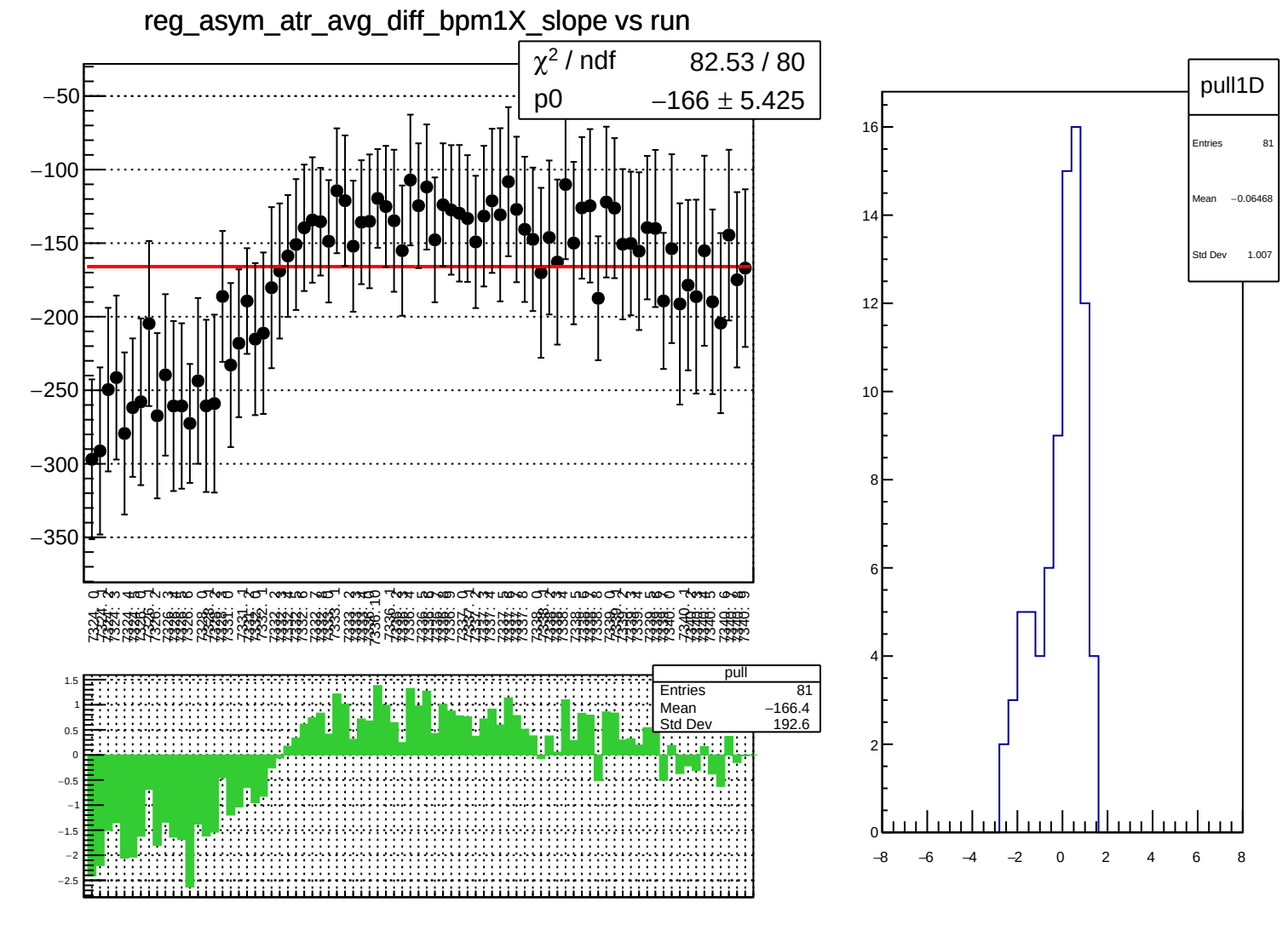

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 34.18 / 80
p0 −101.7 ± 4.138
pull
Entries 81
Mean −117.4
Std Dev 141.4

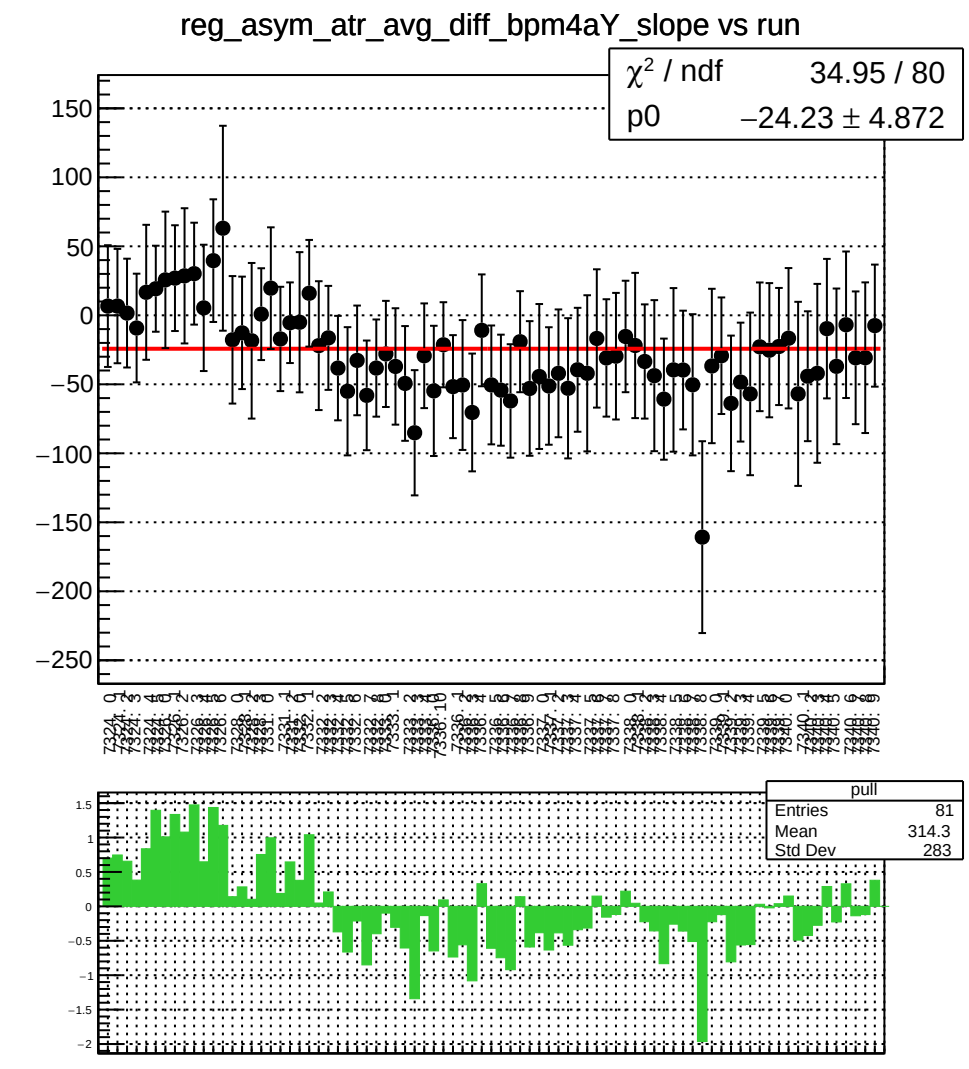

pull1D
Entries 81
Mean −0.04455
Std Dev 0.6481

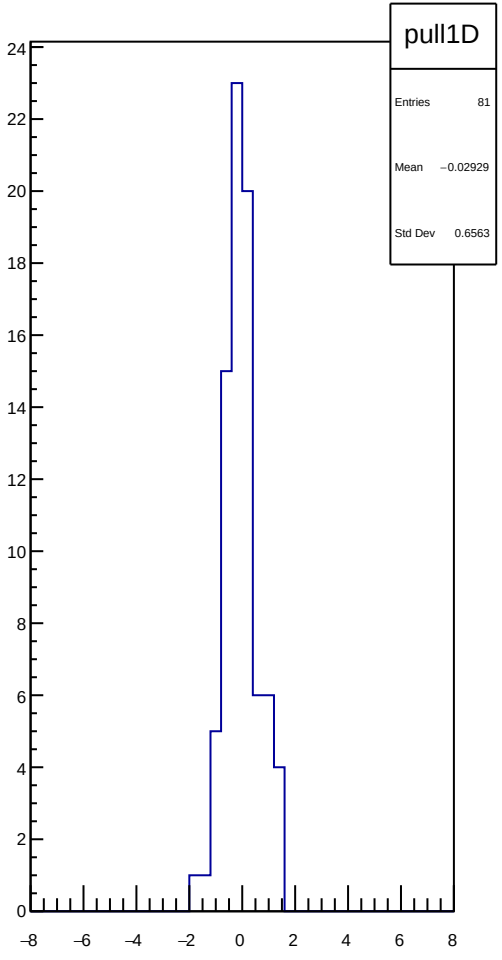

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.07 / 80
p0 −70.52 ± 3.94
pull
Entries 81
Mean 309.8
Std Dev 277.9

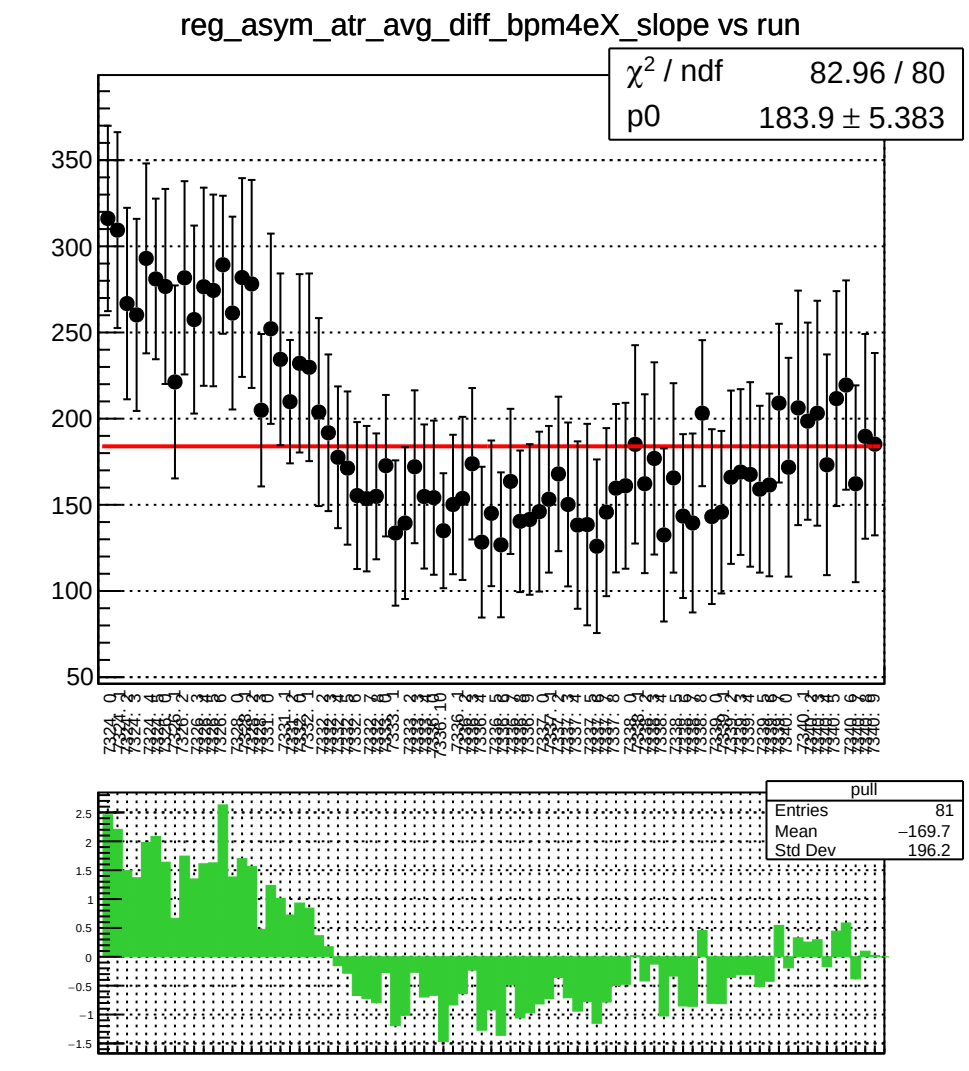

pull1D
Entries 81
Mean −0.02168
Std Dev 0.4718

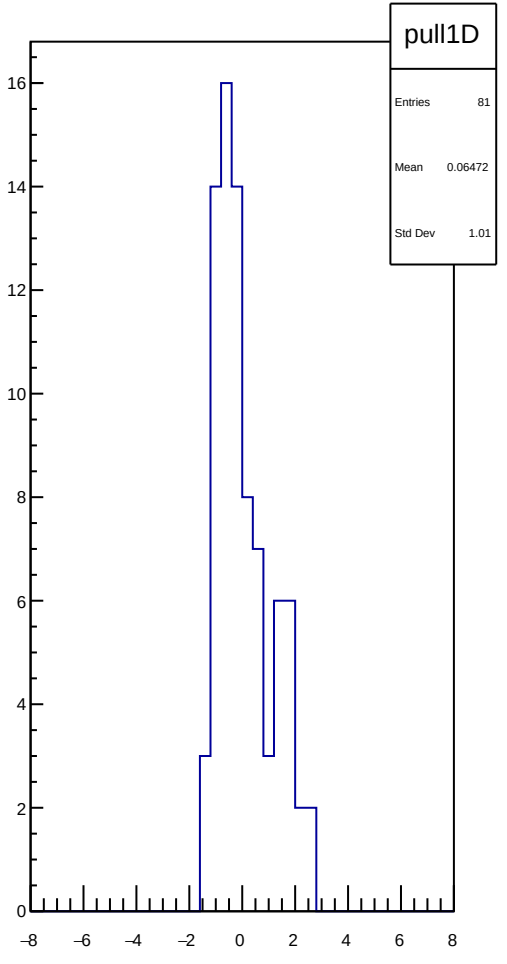

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 22.03 / 80
p0 100 ± 0.1941
pull
Entries 81
Mean 357.4
Std Dev 316.5
pull1D
Entries 81
Mean 0.02075
Std Dev 0.5211

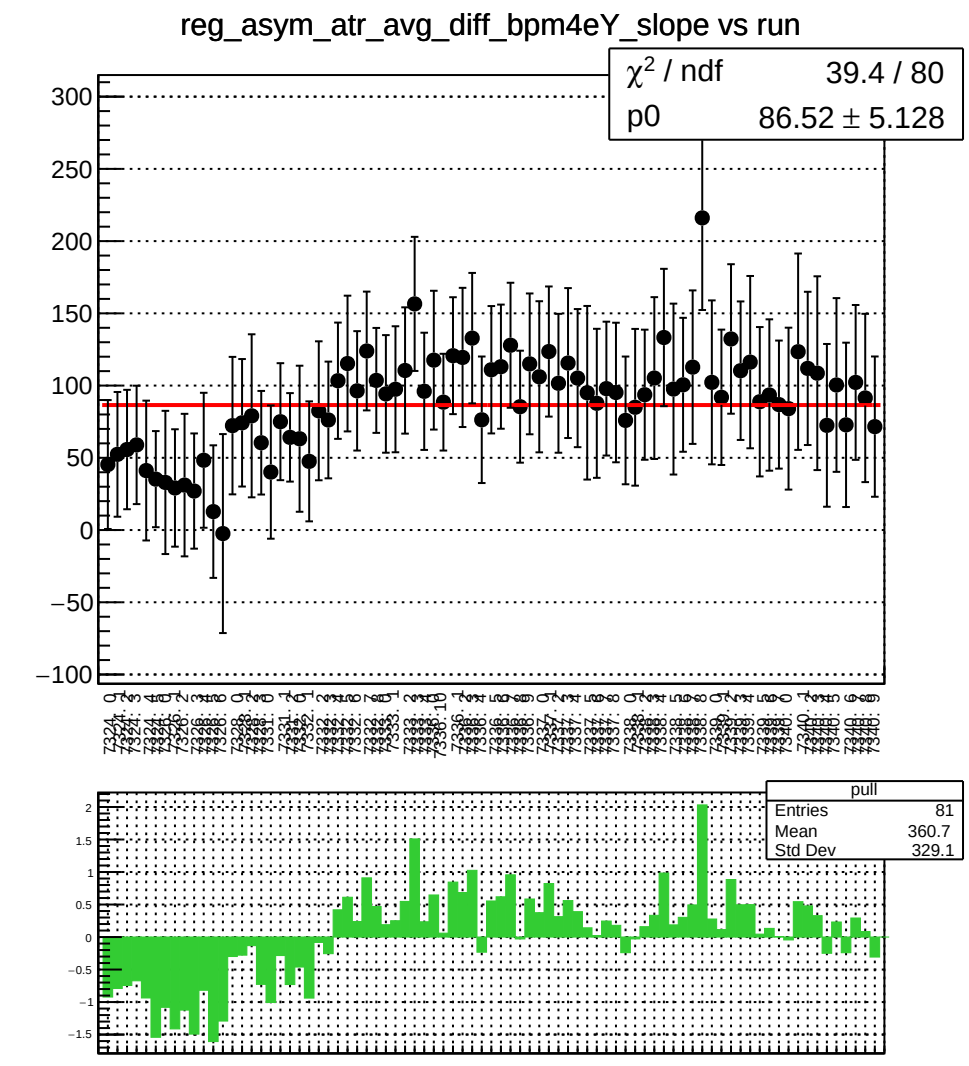

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 82.53 / 80
p0 −166 ± 5.425
pull
Entries 81
Mean −166.4
Std Dev 192.6
pull1D
Entries 81
Mean −0.06468
Std Dev 1.007

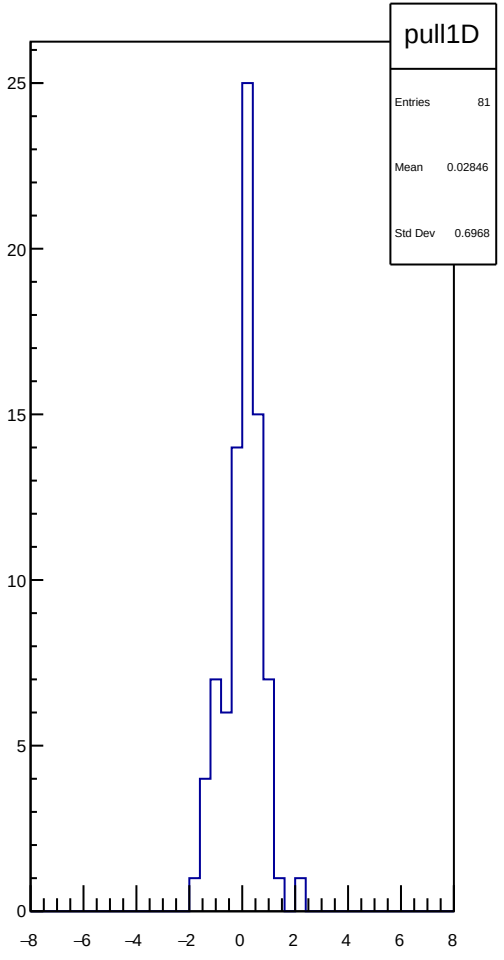

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 34.95 / 80
p0 −24.23 ± 4.872
pull
Entries 81
Mean 314.3
Std Dev 283

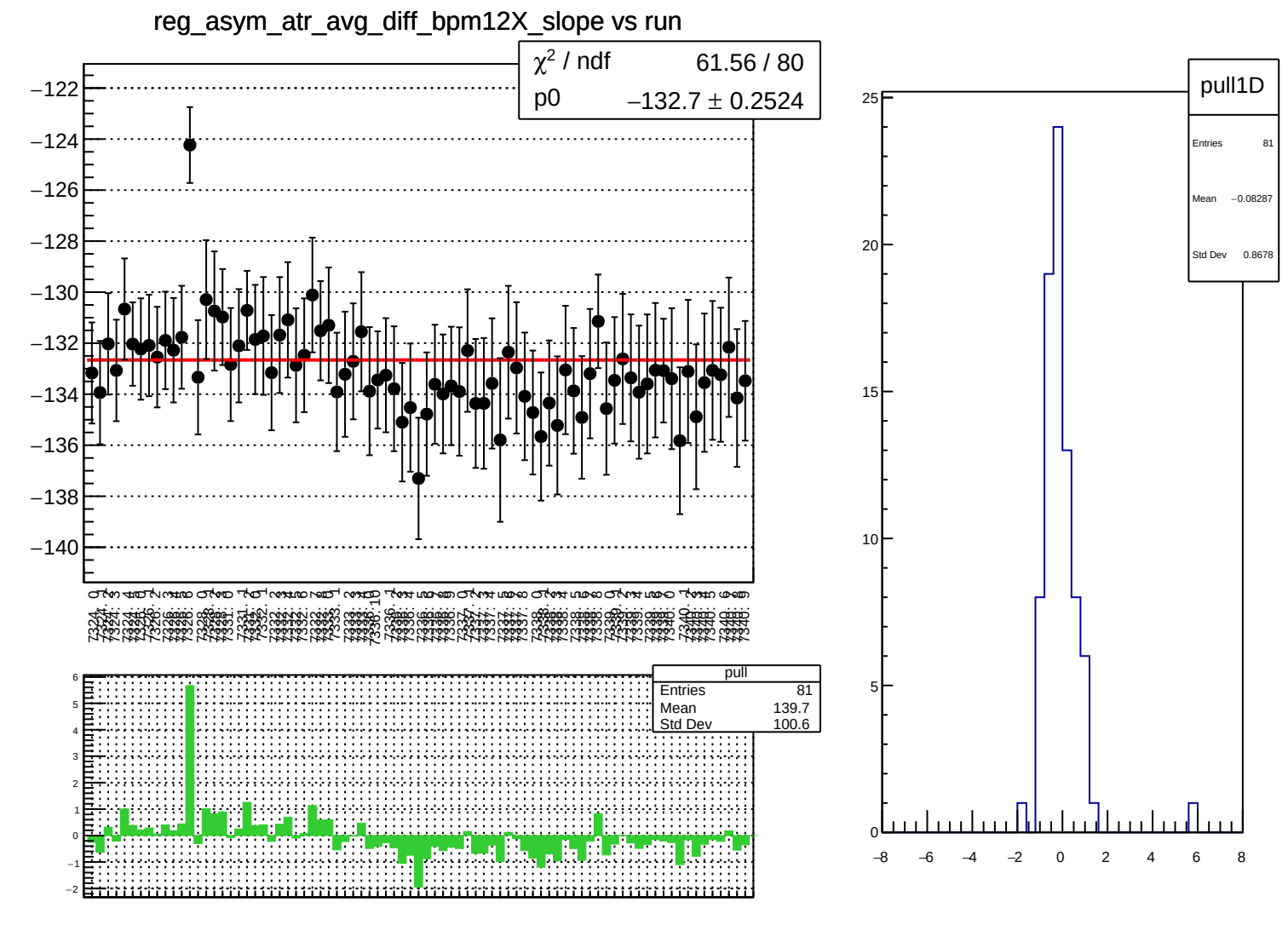

pull1D
Entries 81
Mean −0.02929
Std Dev 0.6563

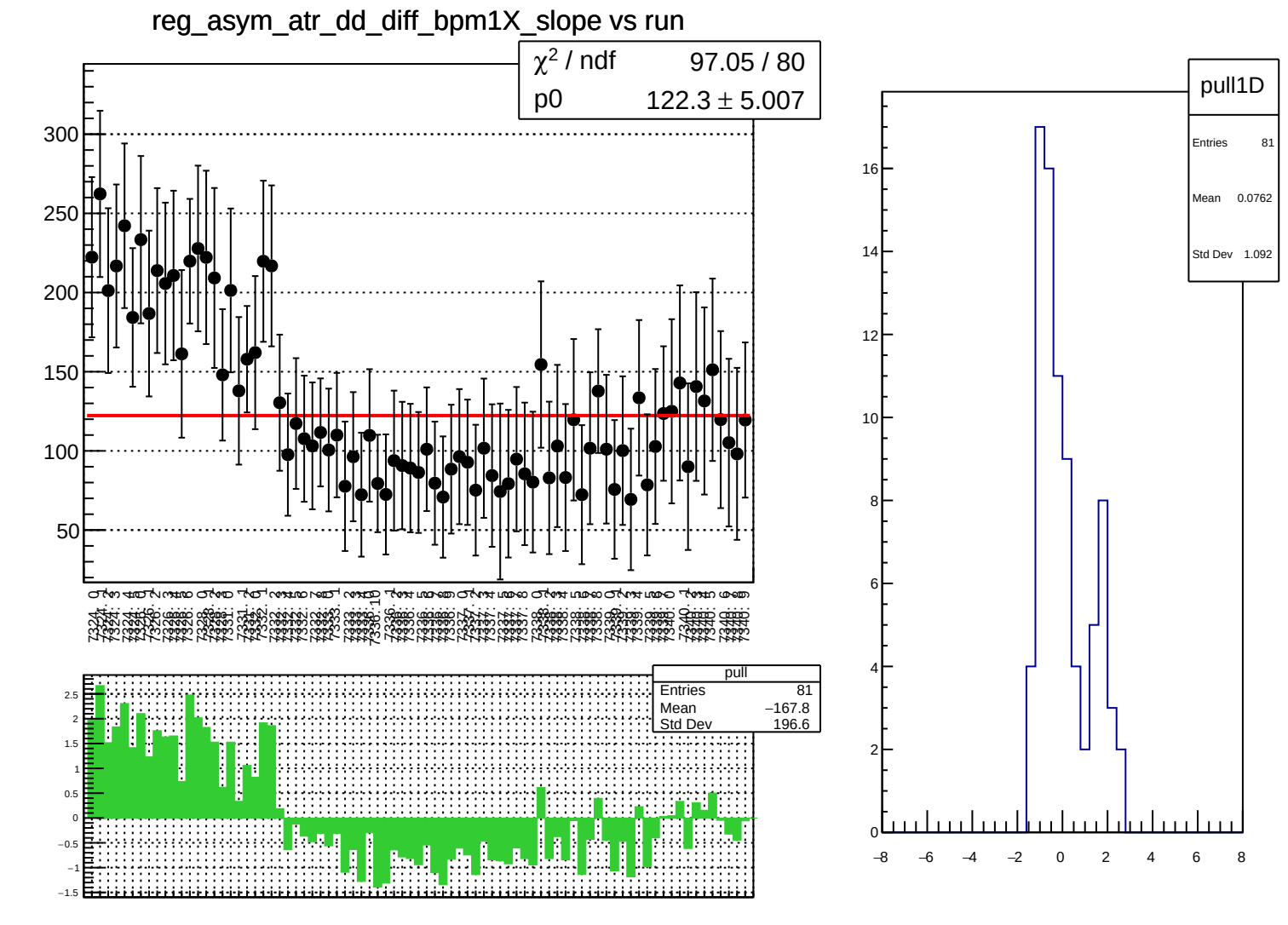

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 82.96 / 80
p0 183.9 ± 5.383
pull
Entries 81
Mean −169.7
Std Dev 196.2

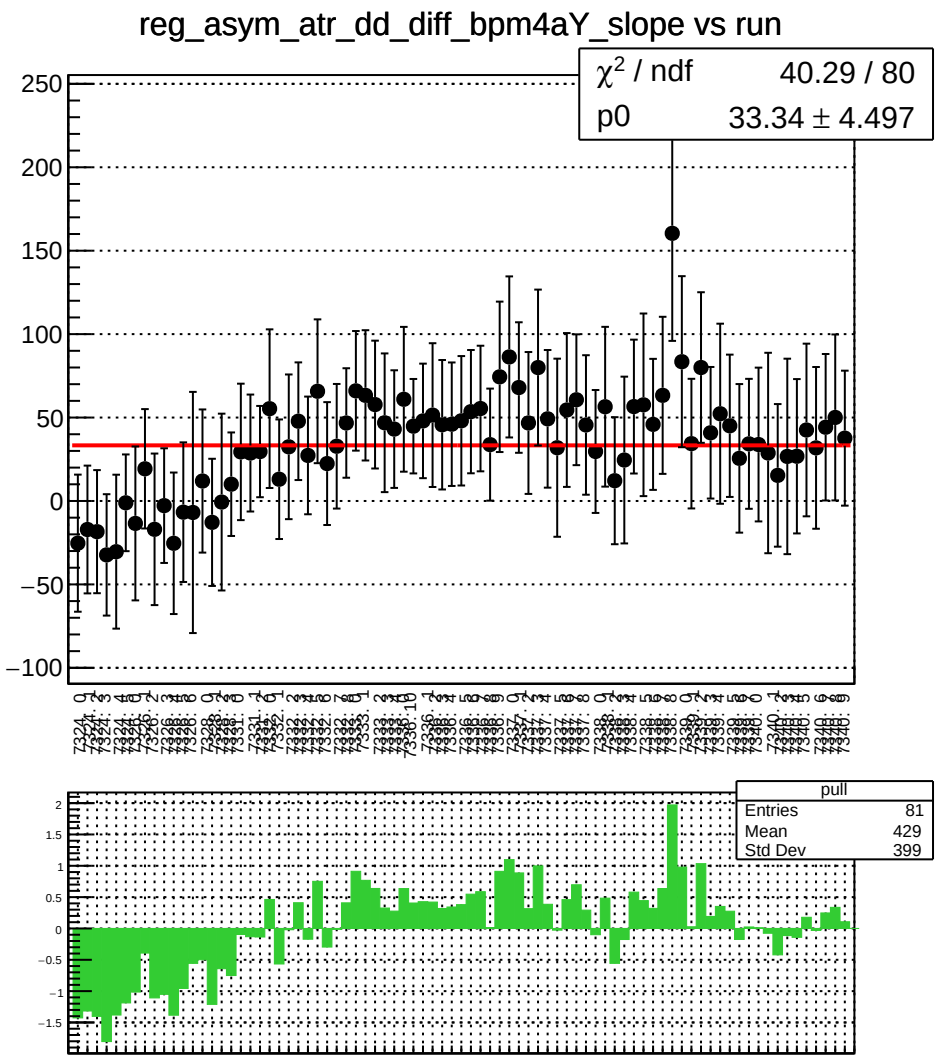

pull1D
Entries 81
Mean 0.06472
Std Dev 1.01

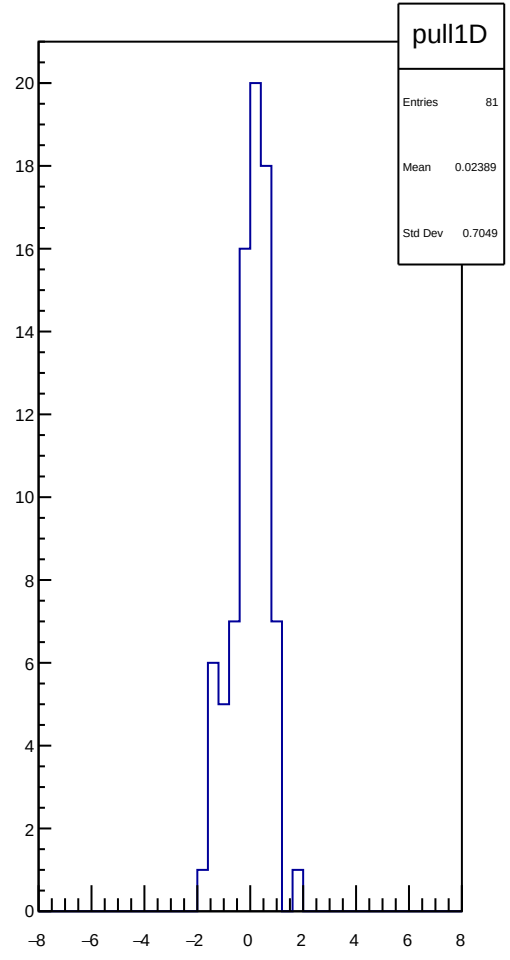

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 39.4 / 80
p0 86.52 ± 5.128
pull
Entries 81
Mean 360.7
Std Dev 329.1

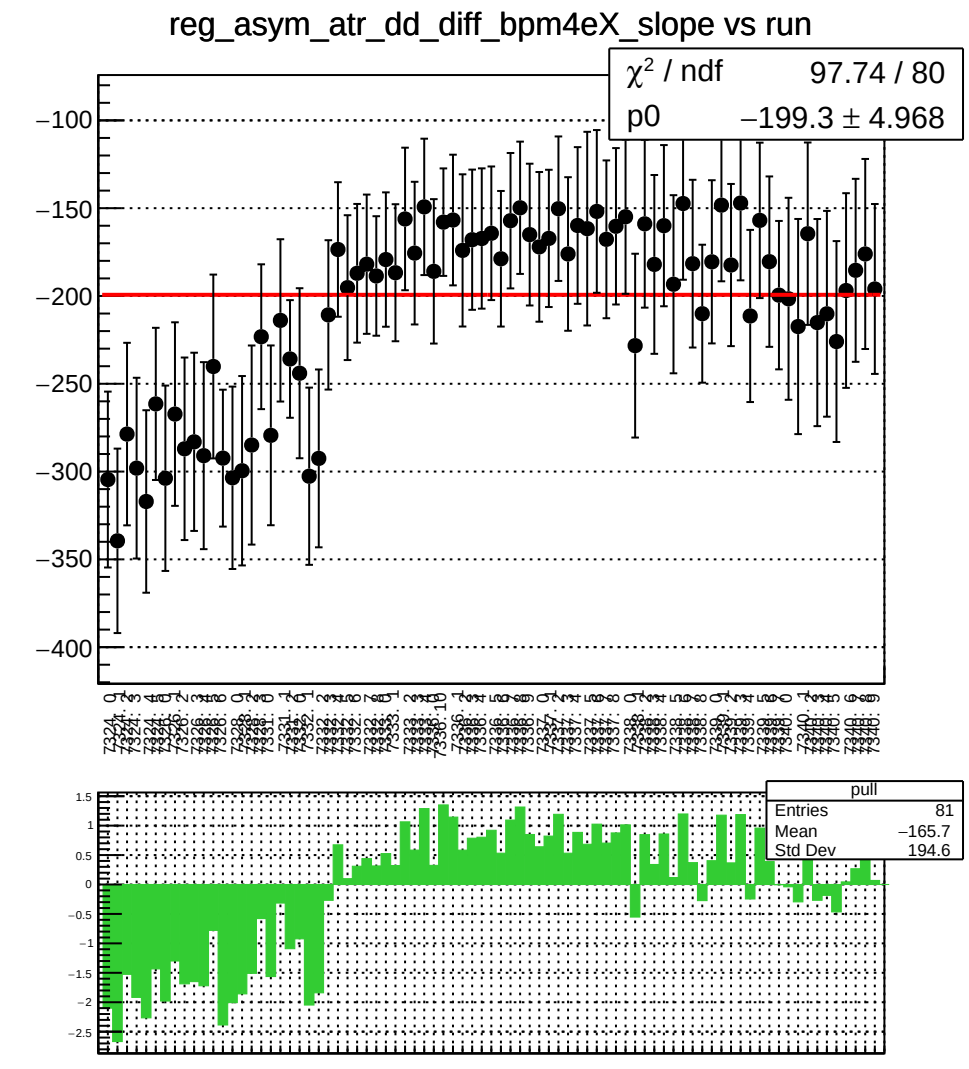

pull1D
Entries 81
Mean 0.02846
Std Dev 0.6968

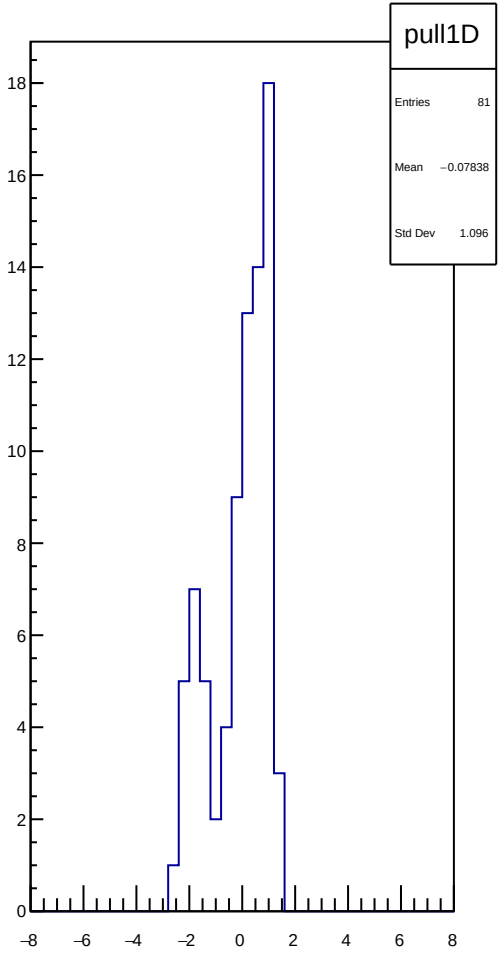

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 61.56 / 80
p0 −132.7 ± 0.2524
pull
Entries 81
Mean 139.7
Std Dev 100.6
pull1D
Entries 81
Mean −0.08287
Std Dev 0.8678

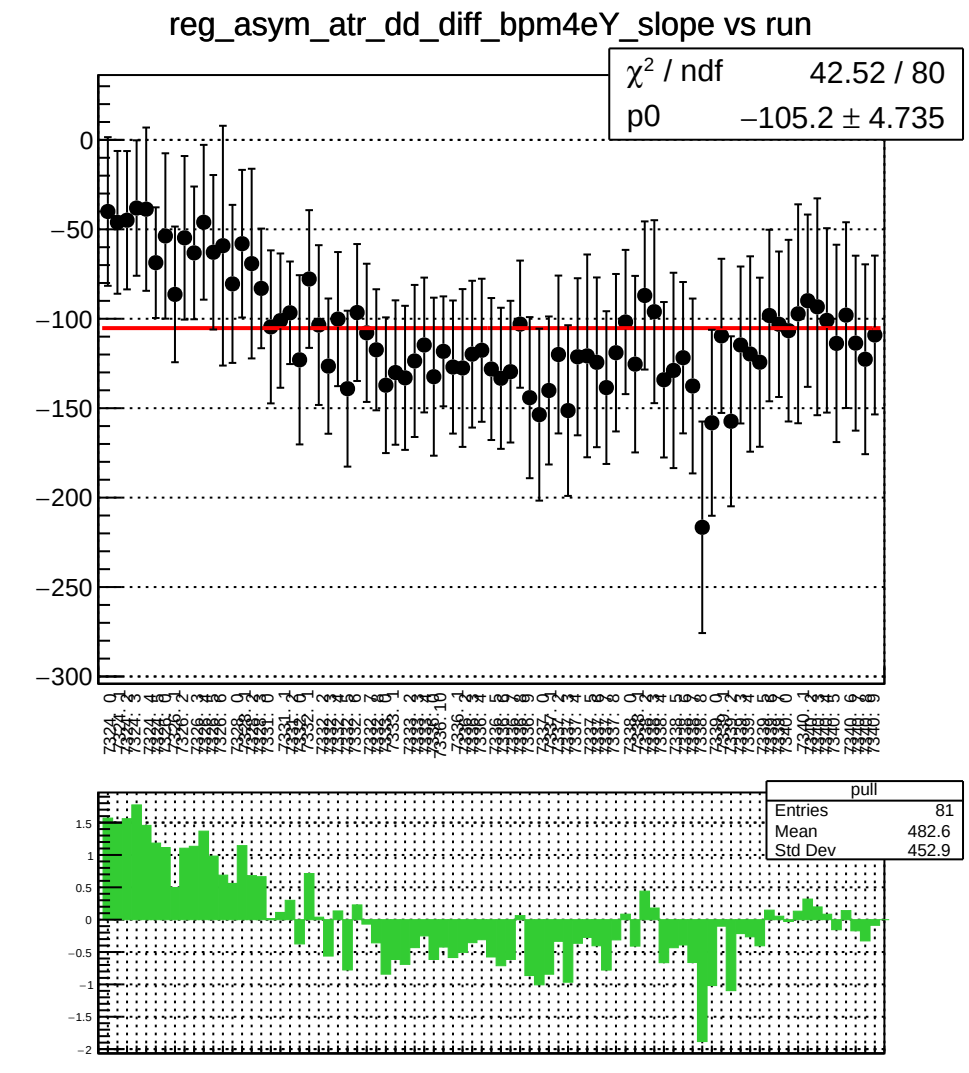

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 97.05 / 80
p0 122.3 ± 5.007
pull
Entries 81
Mean −167.8
Std Dev 196.6
pull1D
Entries 81
Mean 0.0762
Std Dev 1.092

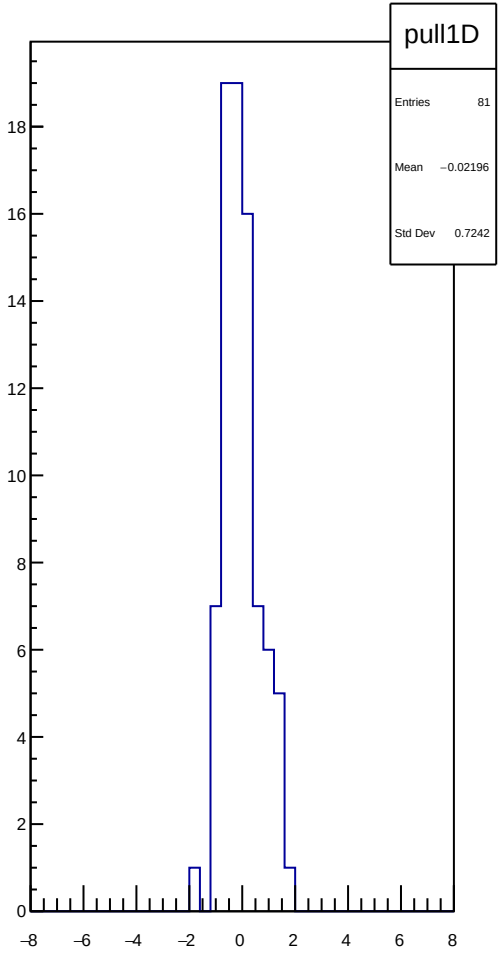

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 40.29 / 80
p0 33.34 ± 4.497
pull
Entries 81
Mean 429
Std Dev 399

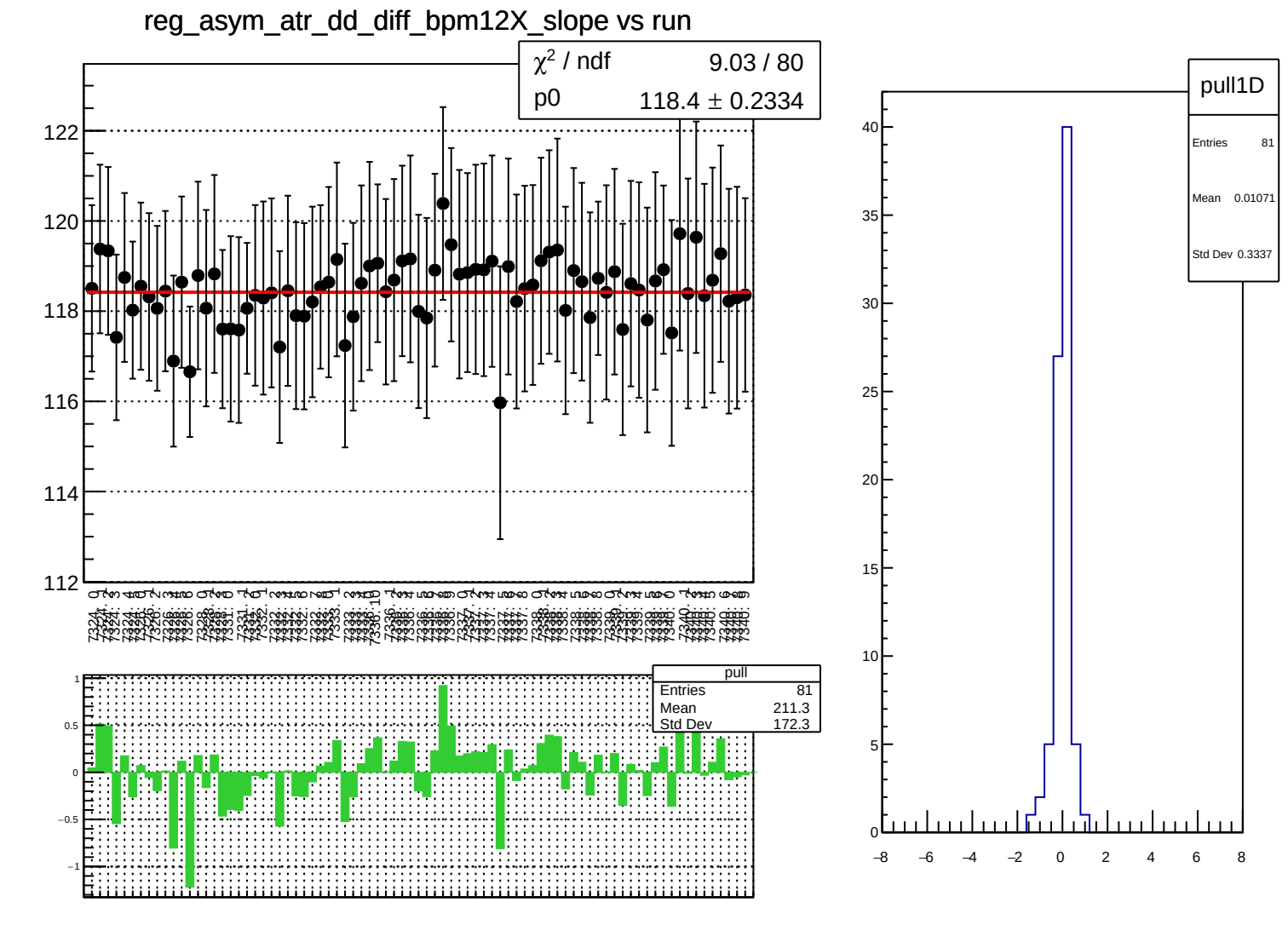

pull1D
Entries 81
Mean 0.02389
Std Dev 0.7049

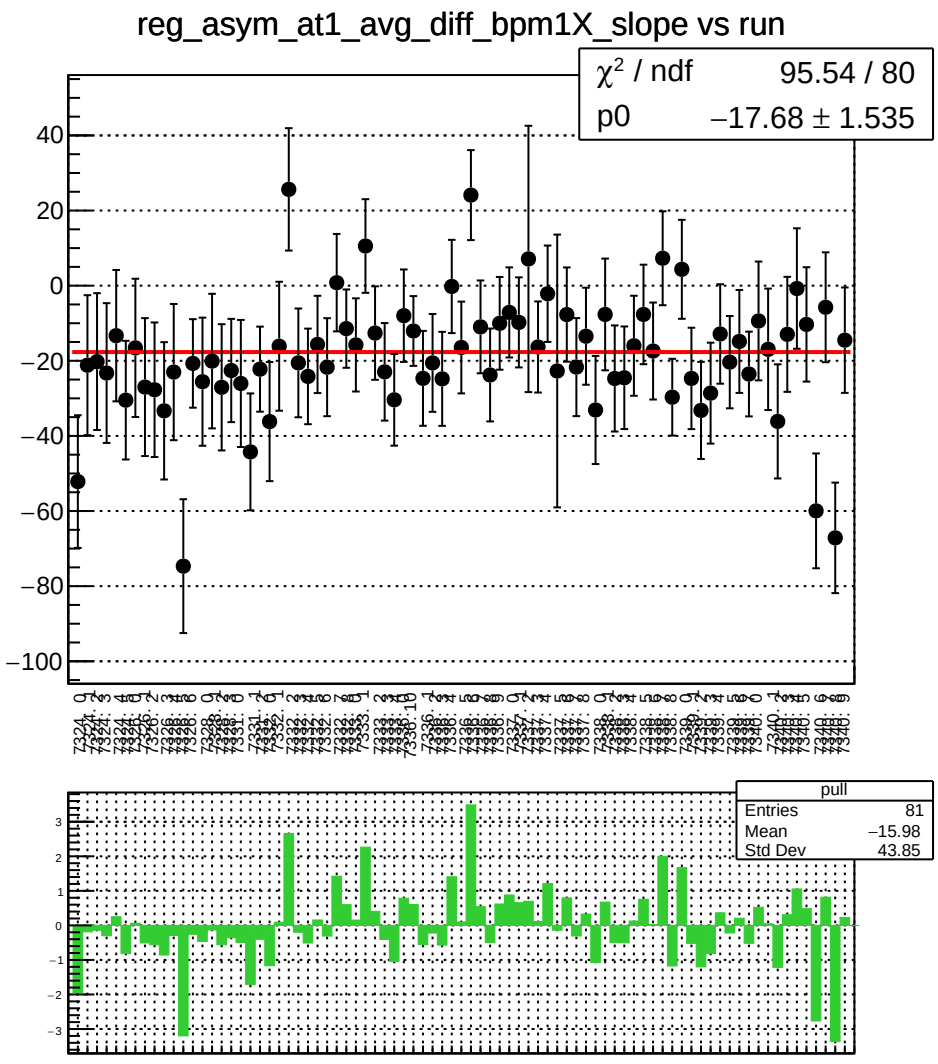

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 97.74 / 80
p0 −199.3 ± 4.968
pull
Entries 81
Mean −165.7
Std Dev 194.6

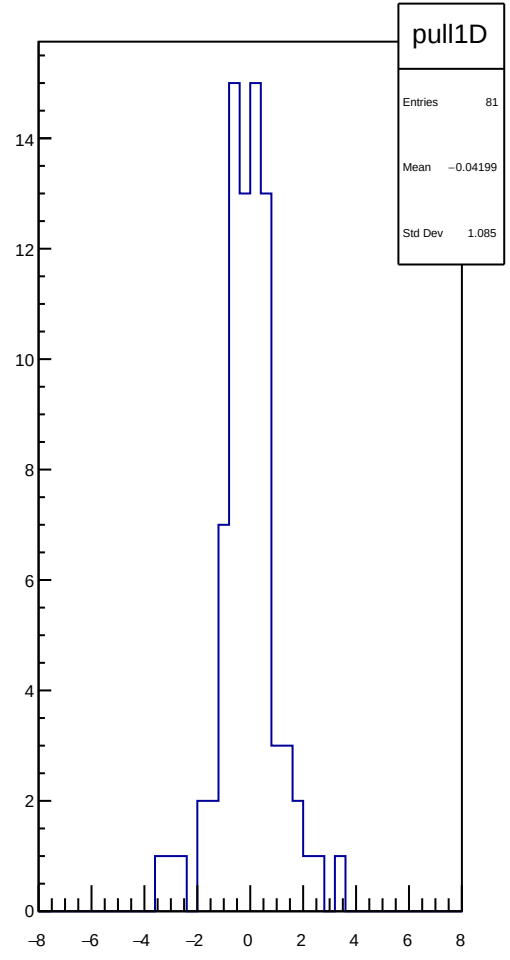

pull1D
Entries 81
Mean −0.07838
Std Dev 1.096

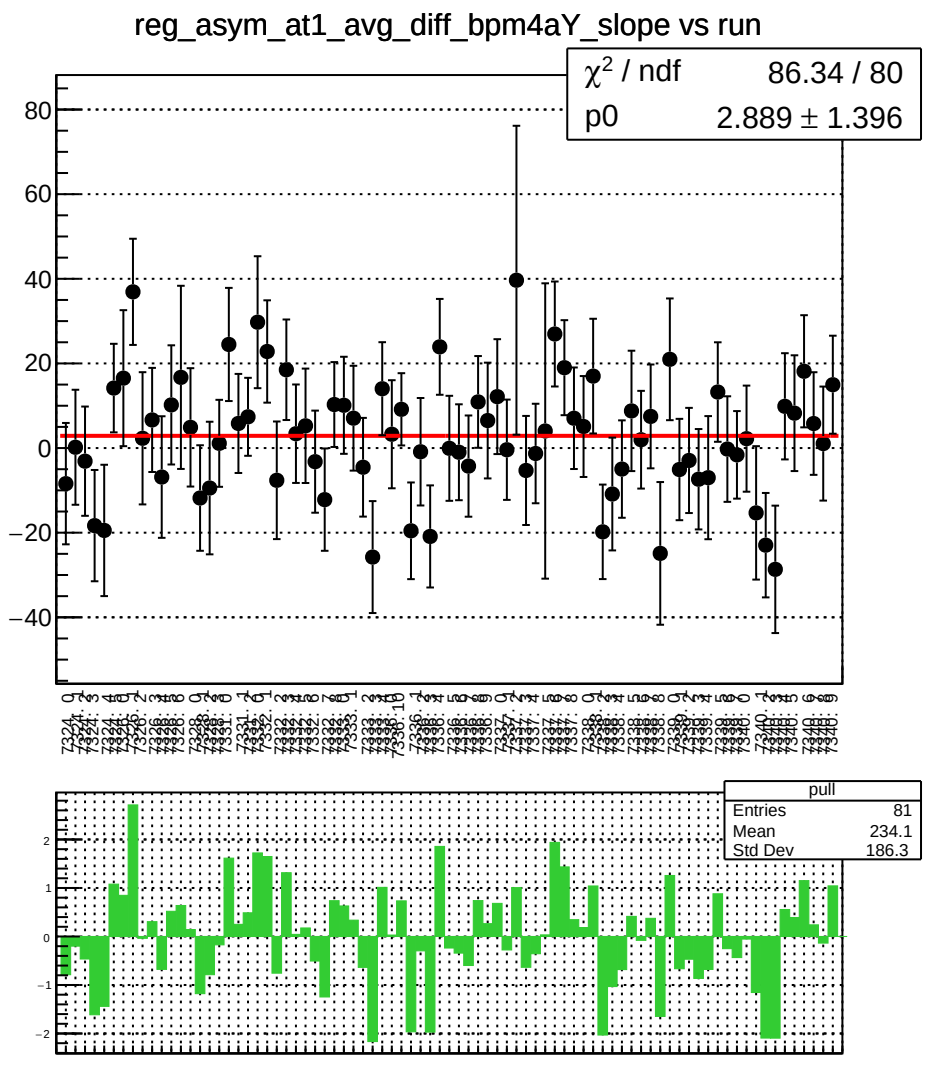

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 42.52 / 80
p0 −105.2 ± 4.735
pull
Entries 81
Mean 482.6
Std Dev 452.9

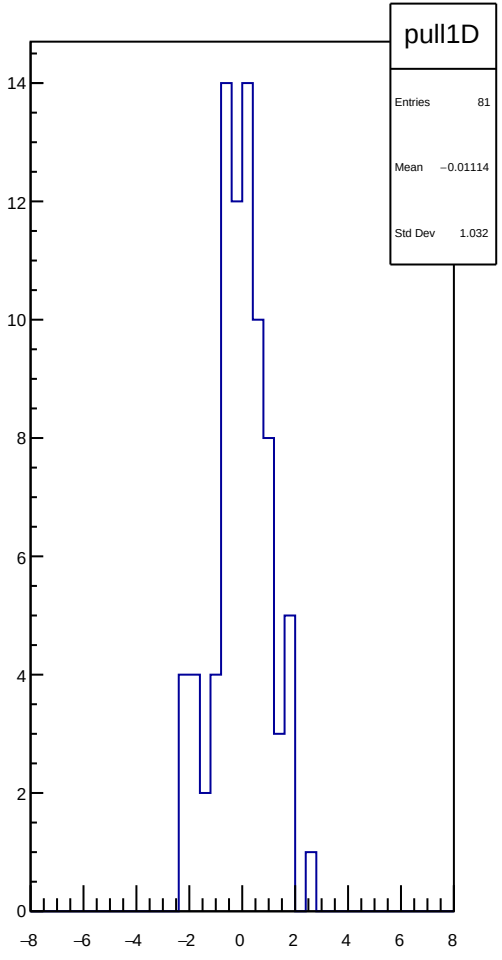

pull1D
Entries 81
Mean −0.02196
Std Dev 0.7242

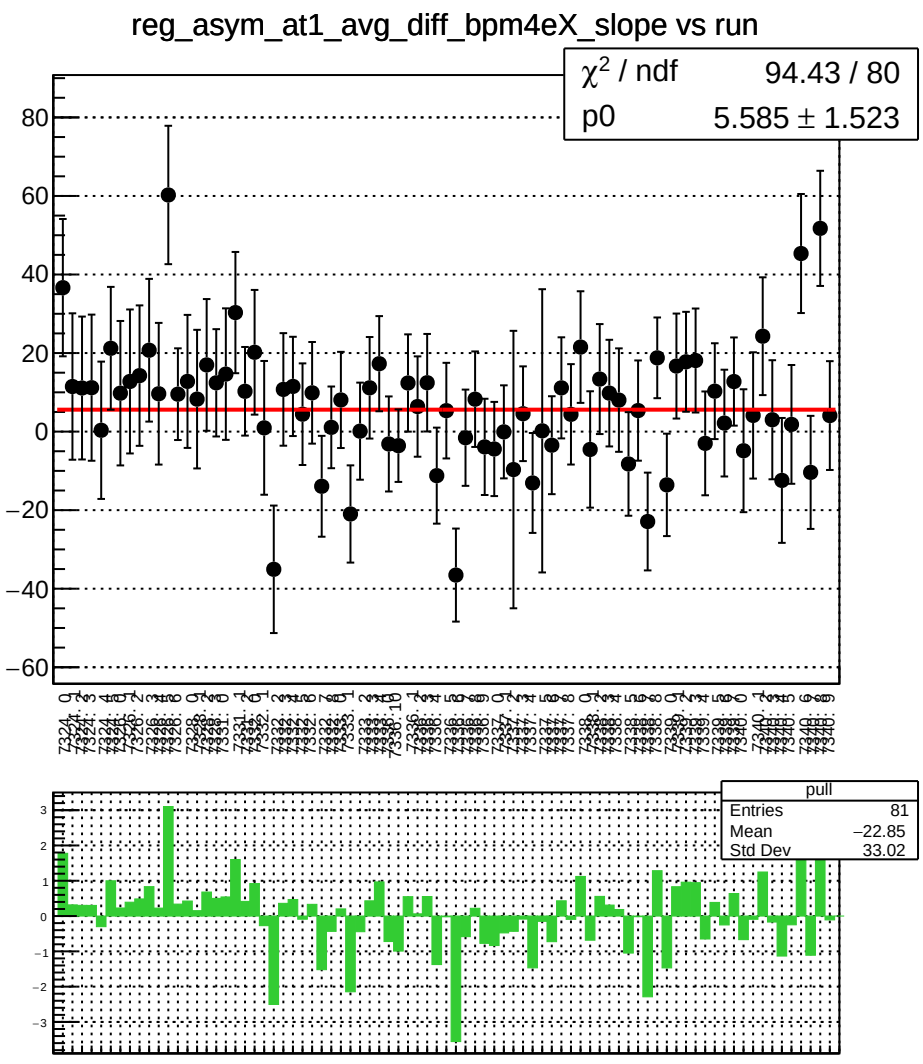

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 9.03 / 80
p0 118.4 ± 0.2334
pull
Entries 81
Mean 211.3
Std Dev 172.3
pull1D
Entries 81
Mean 0.01071
Std Dev 0.3337

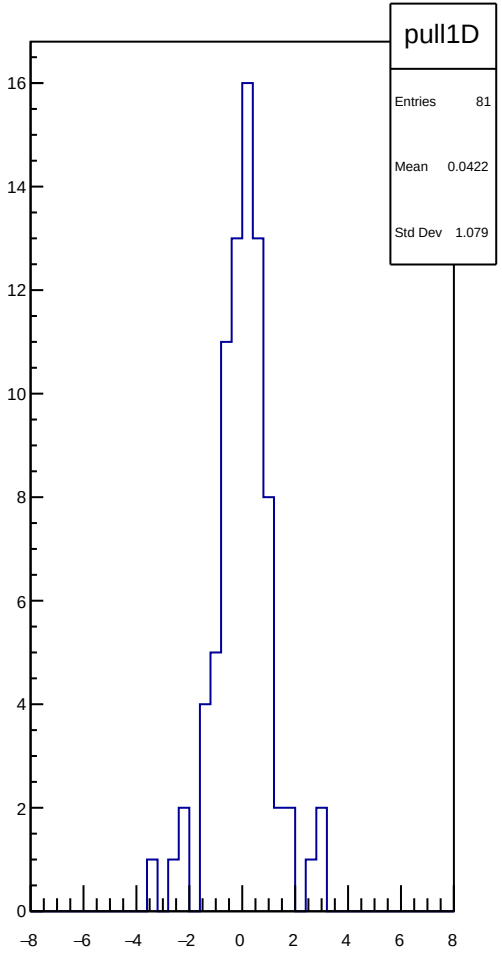

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 95.54 / 80
p0 −17.68 ± 1.535
pull
Entries 81
Mean −15.98
Std Dev 43.85

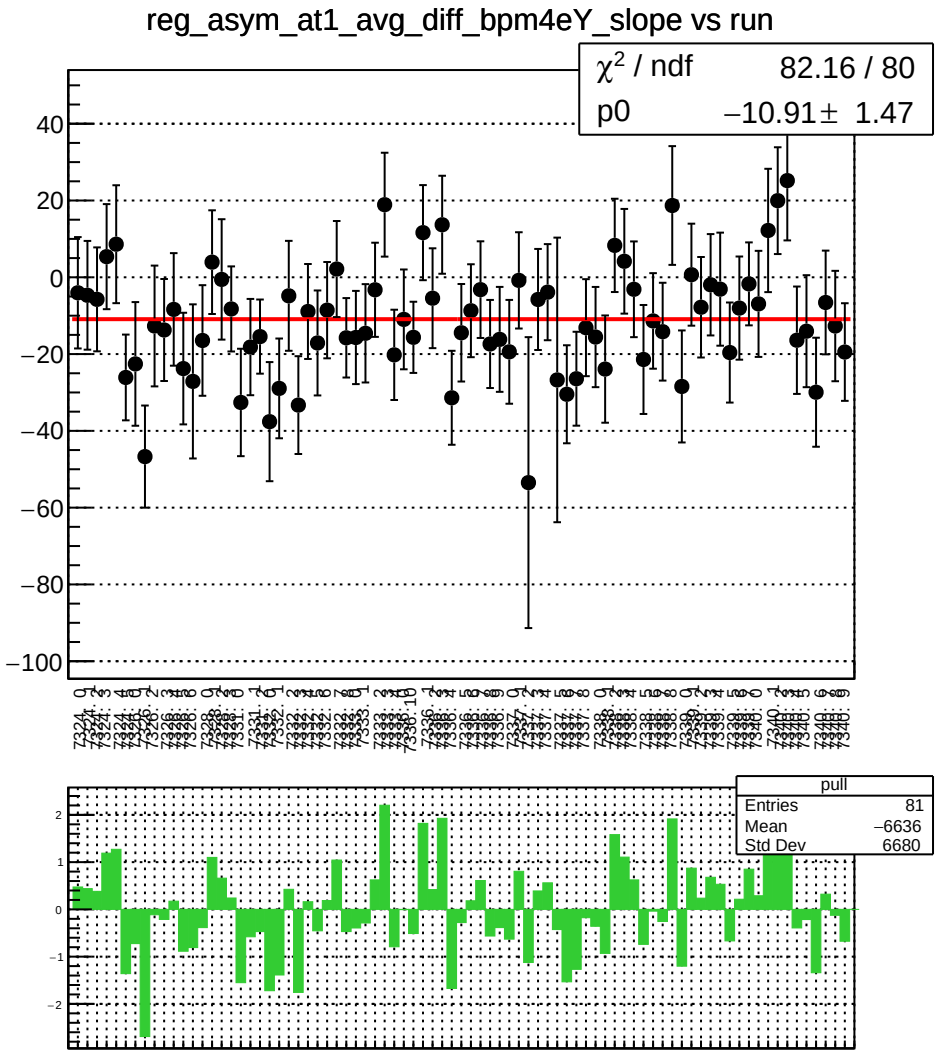

pull1D
Entries 81
Mean −0.04199
Std Dev 1.085

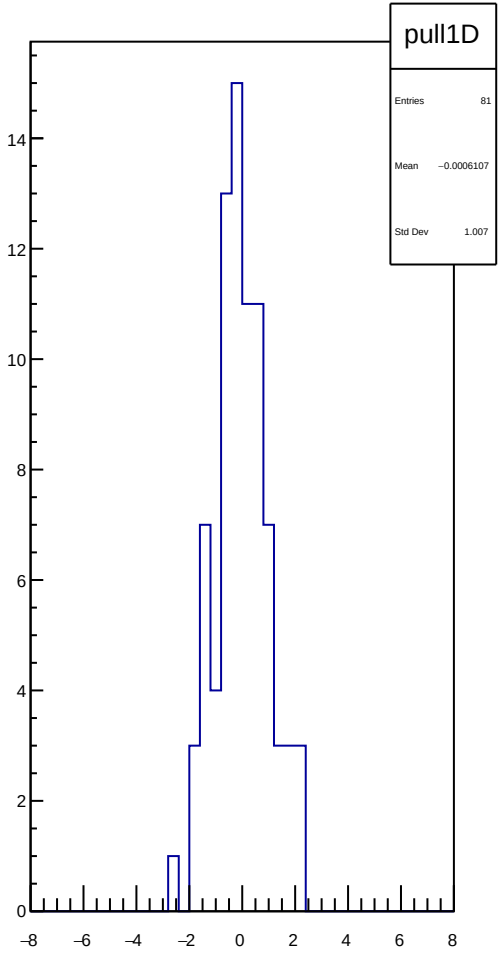

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 86.34 / 80
p0 2.889 ± 1.396
pull
Entries 81
Mean 234.1
Std Dev 186.3

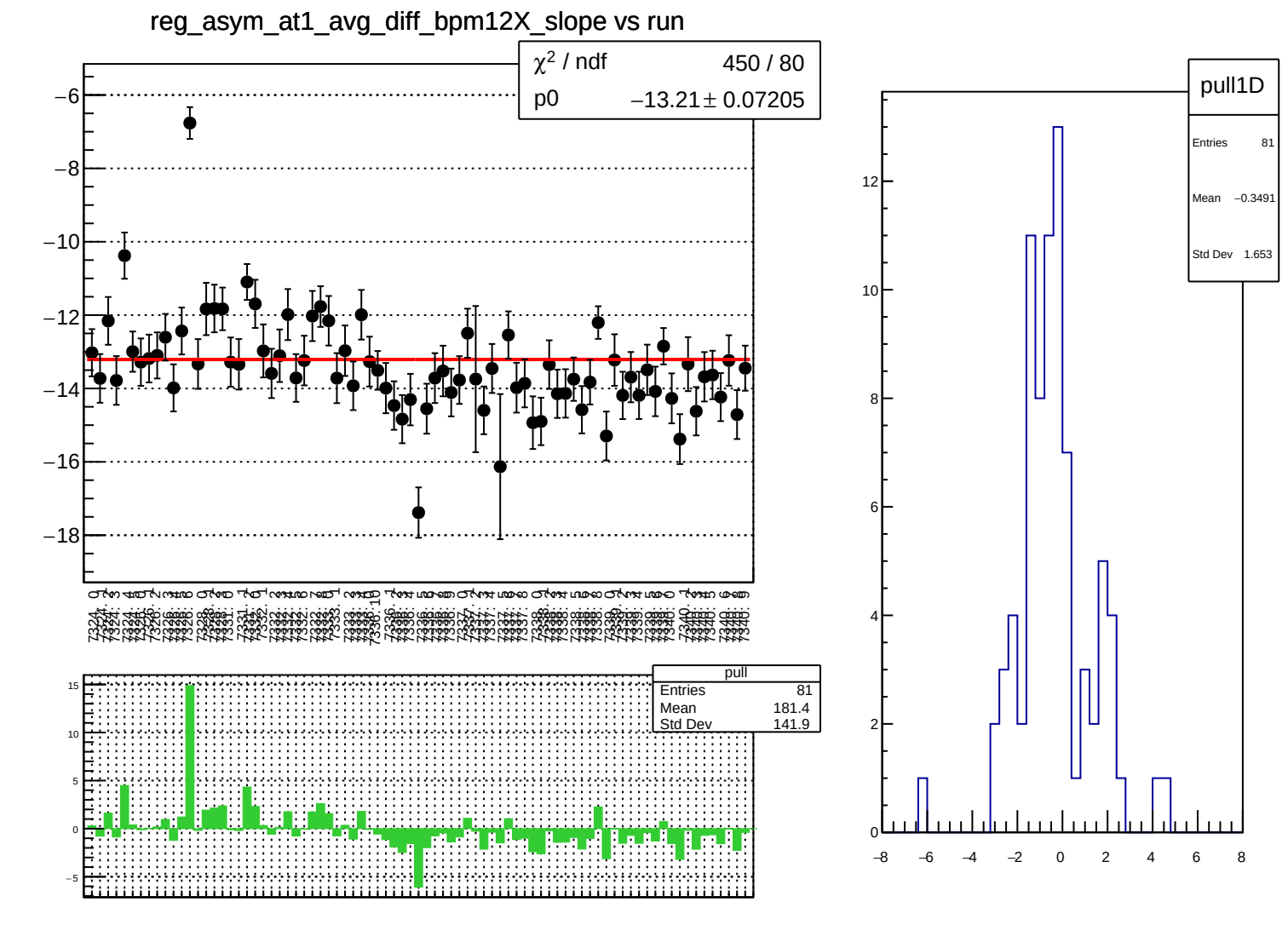

pull1D
Entries 81
Mean −0.01114
Std Dev 1.032

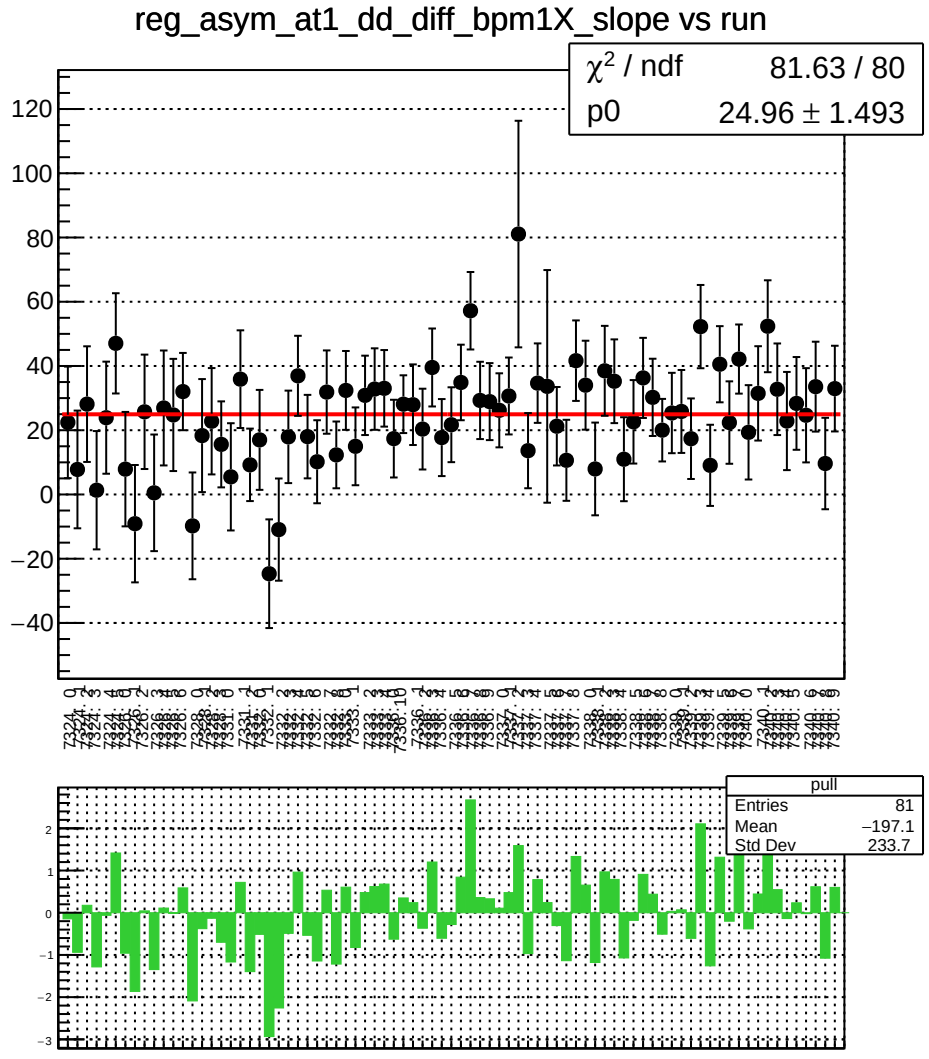

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 94.43 / 80
p0 5.585 ± 1.523
pull
Entries 81
Mean −22.85
Std Dev 33.02

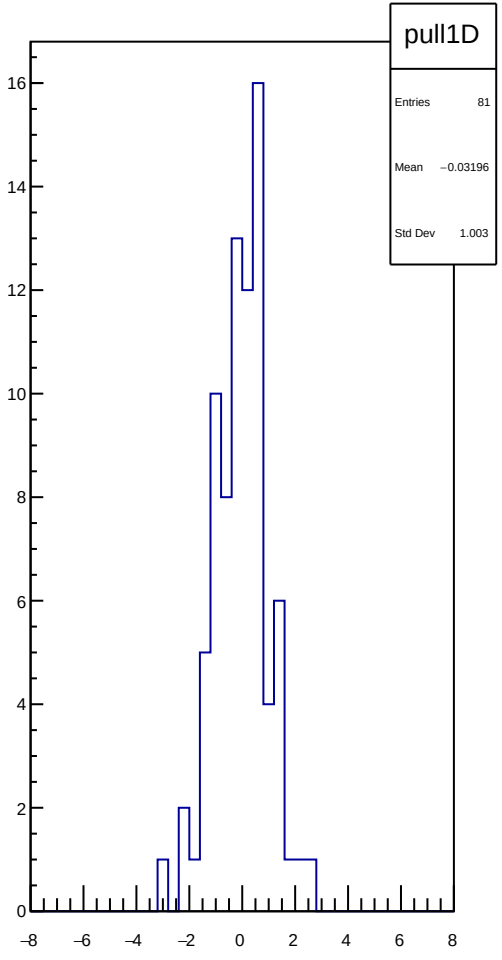

pull1D
Entries 81
Mean 0.0422
Std Dev 1.079

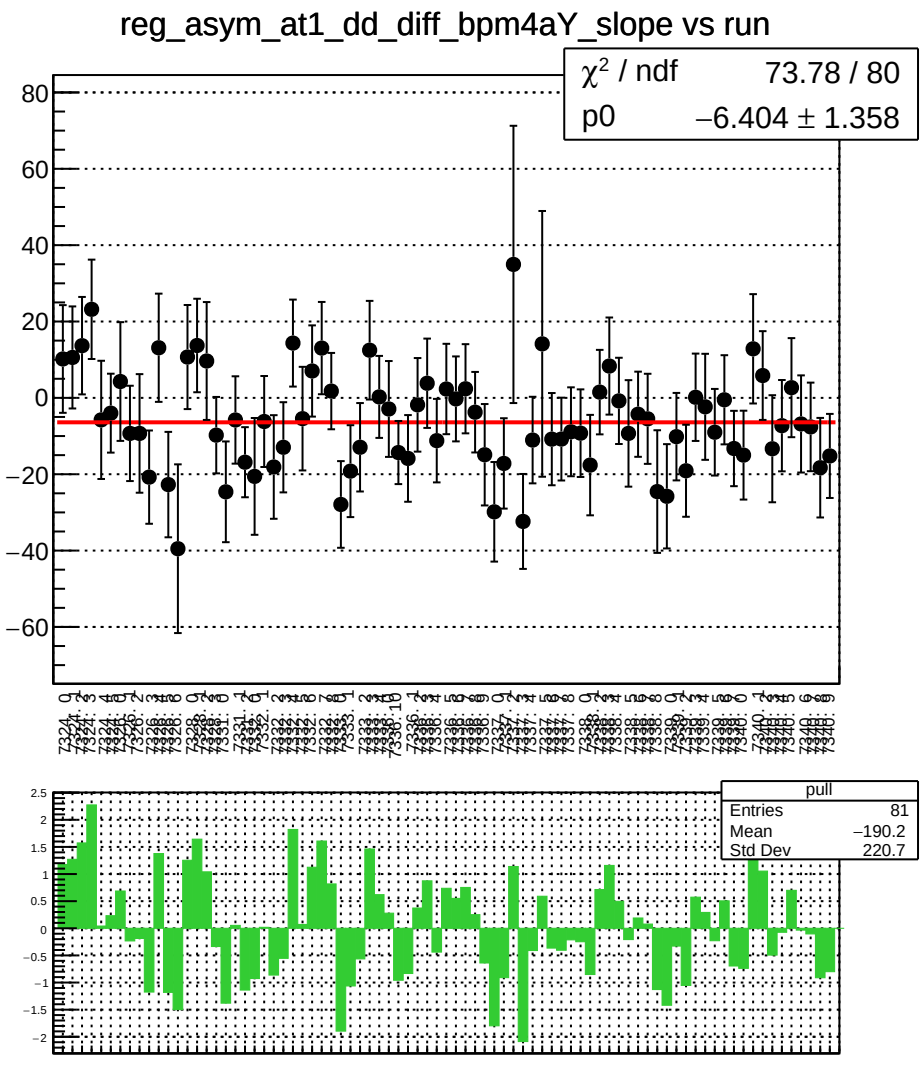

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 82.16 / 80
p0 −10.91± 1.47
pull
Entries 81
Mean −6636
Std Dev 6680

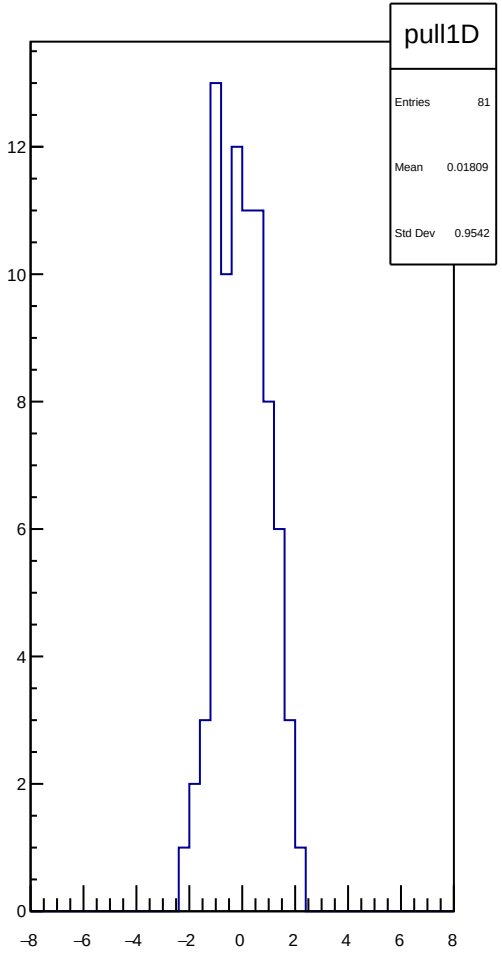

pull1D
Entries 81
Mean −0.0006107
Std Dev 1.007

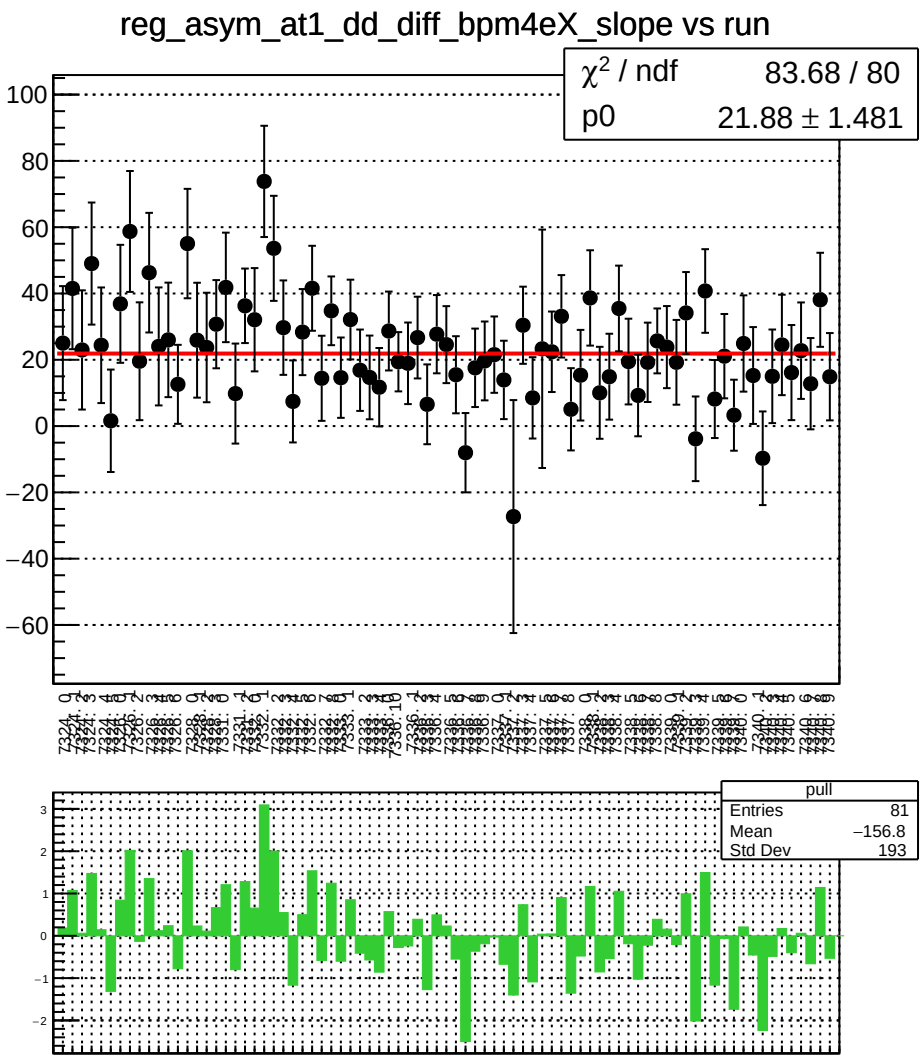

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 450 / 80
p0 −13.21 ± 0.07205
pull
Entries 81
Mean 181.4
Std Dev 141.9
pull1D
Entries 81
Mean −0.3491
Std Dev 1.653

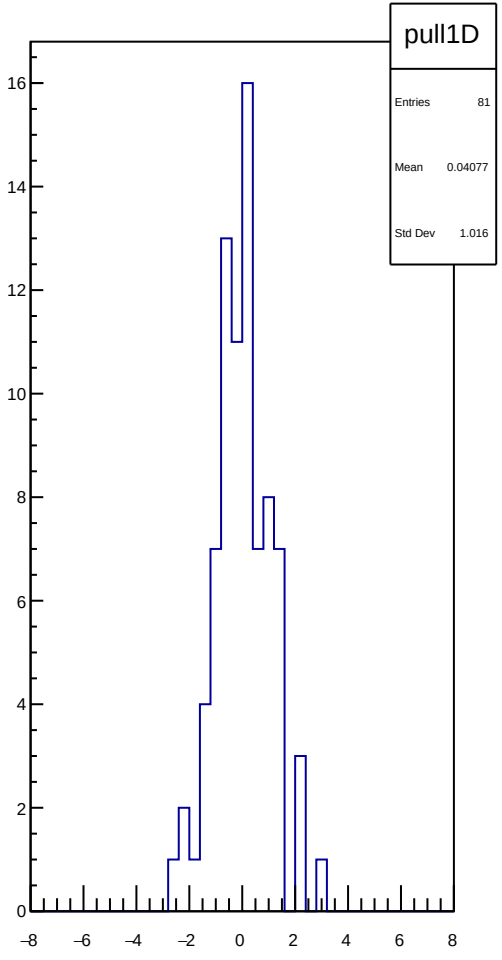

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 81.63 / 80
p0 24.96 ± 1.493
pull
Entries 81
Mean −197.1
Std Dev 233.7

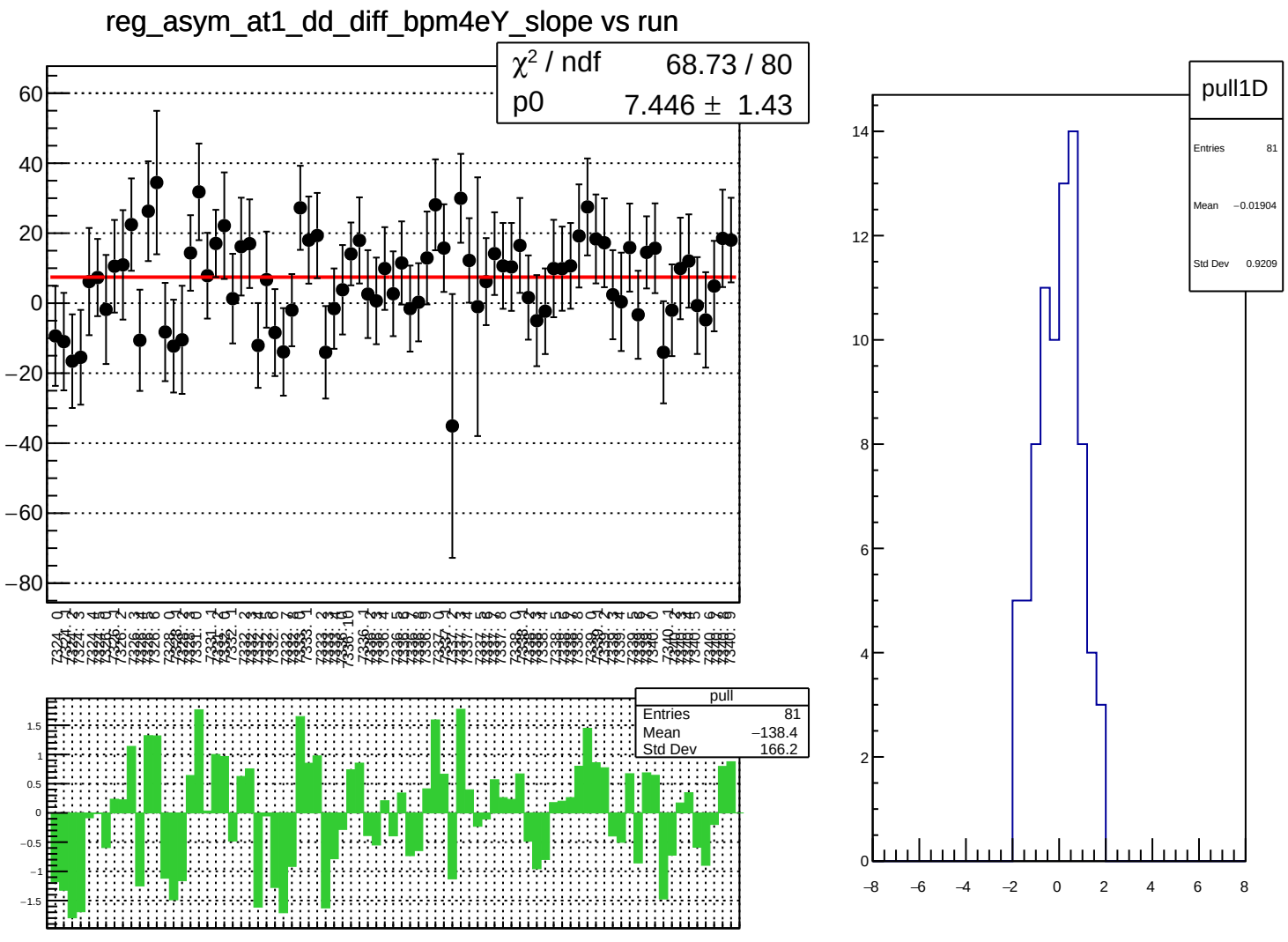

pull1D
Entries 81
Mean −0.03196
Std Dev 1.003

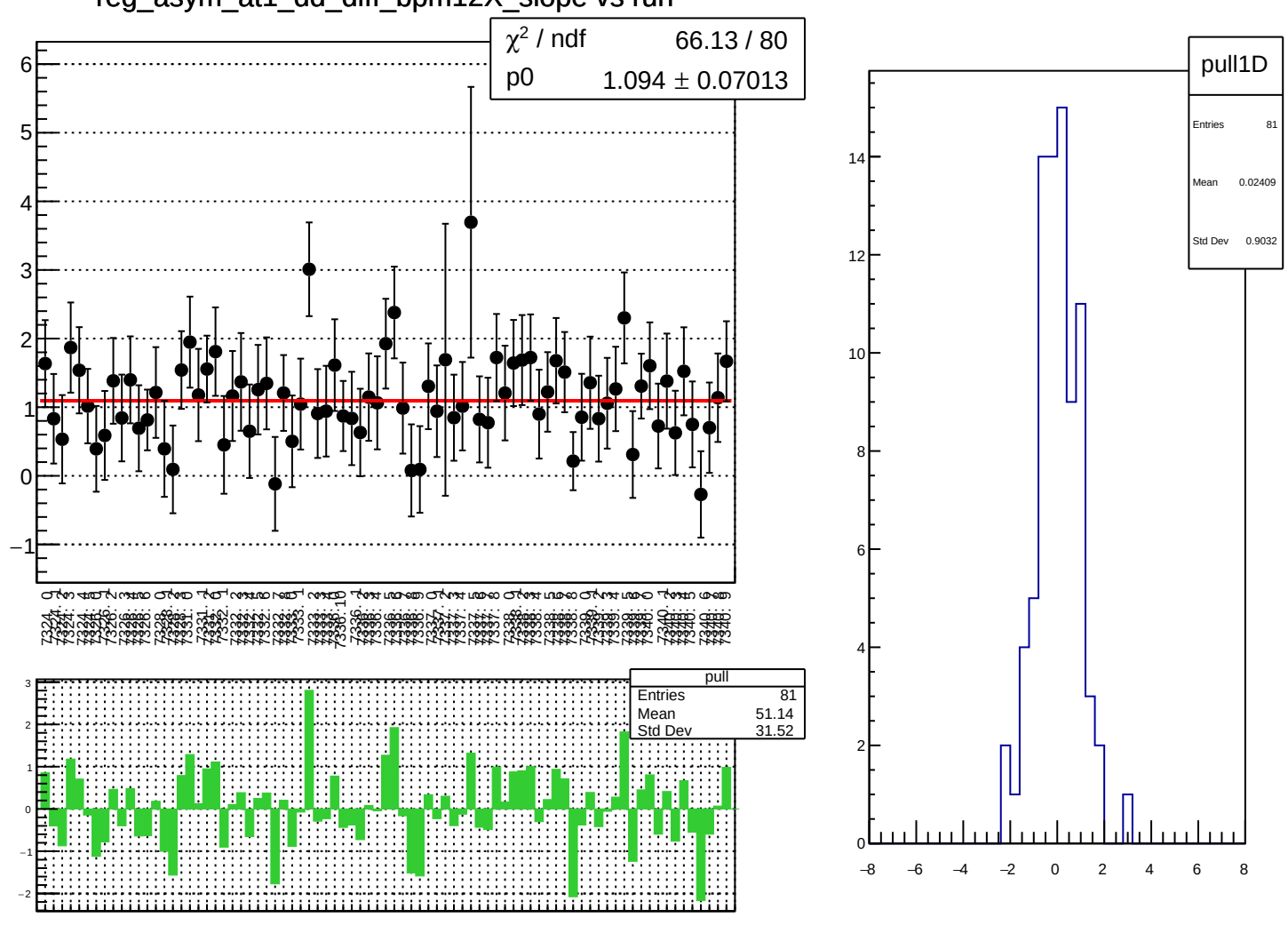

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 73.78 / 80
p0 −6.404 ± 1.358
pull
Entries 81
Mean −190.2
Std Dev 220.7

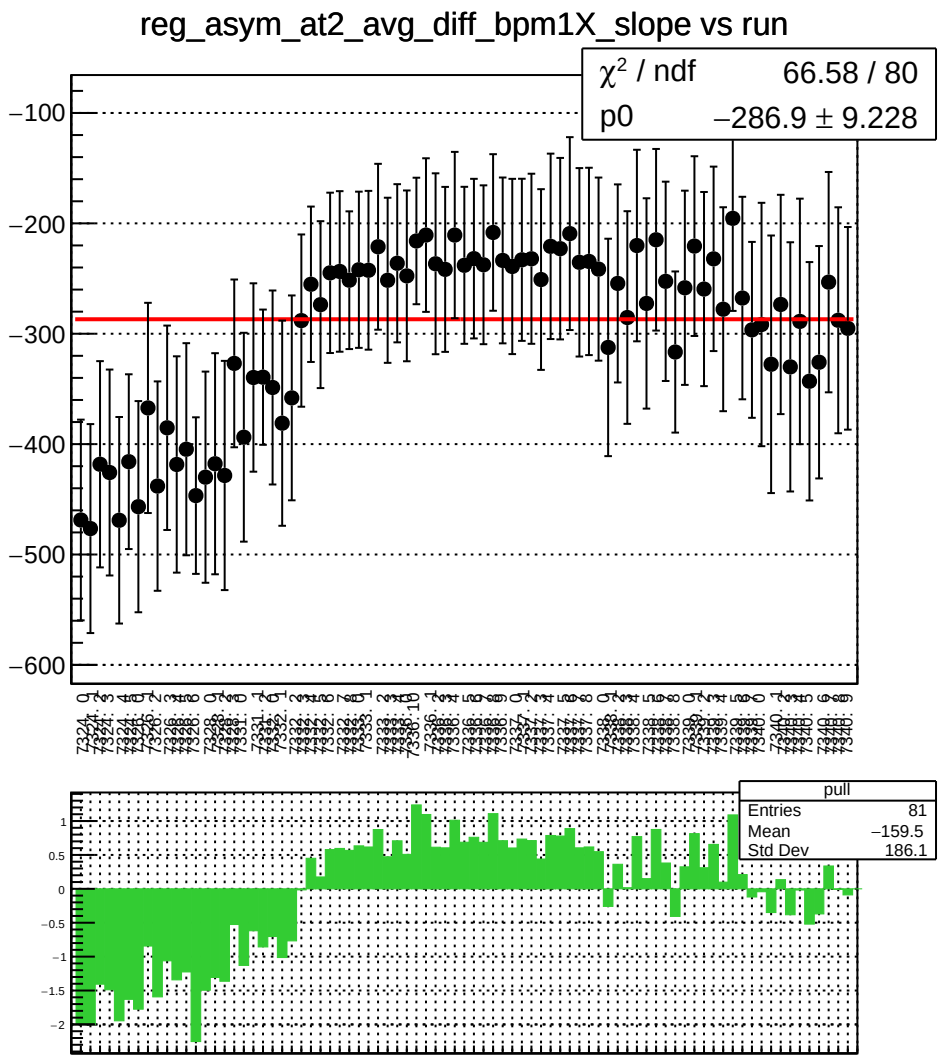

pull1D
Entries 81
Mean 0.01809
Std Dev 0.9542

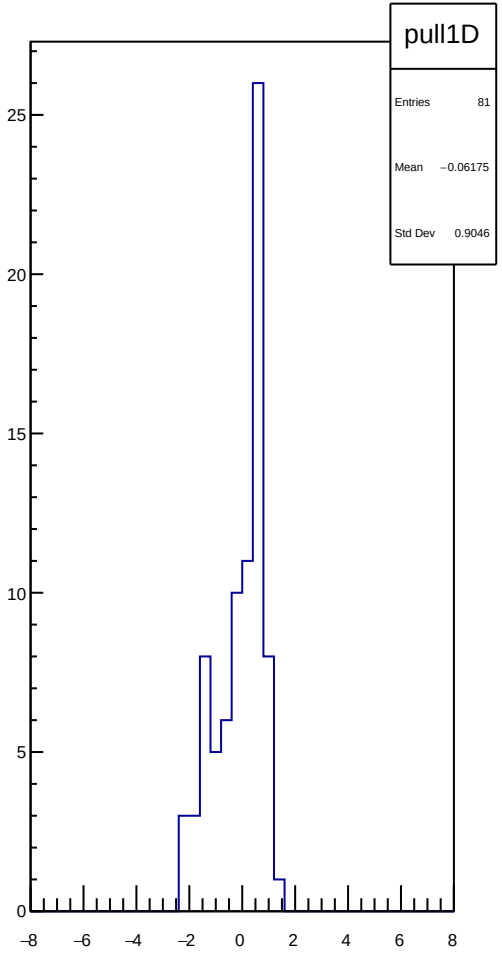

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 83.68 / 80
p0 21.88 ± 1.481
pull
Entries 81
Mean −156.8
Std Dev 193

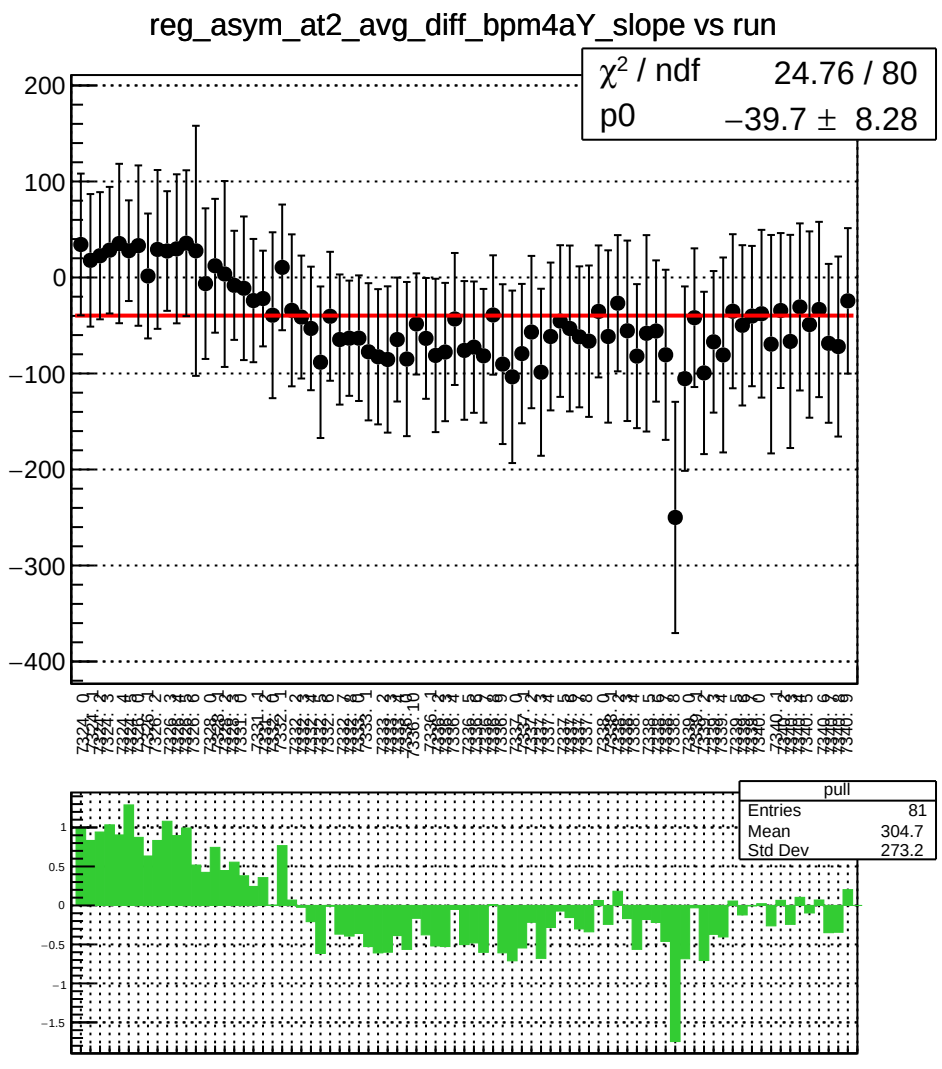

pull1D
Entries 81
Mean 0.04077
Std Dev 1.016

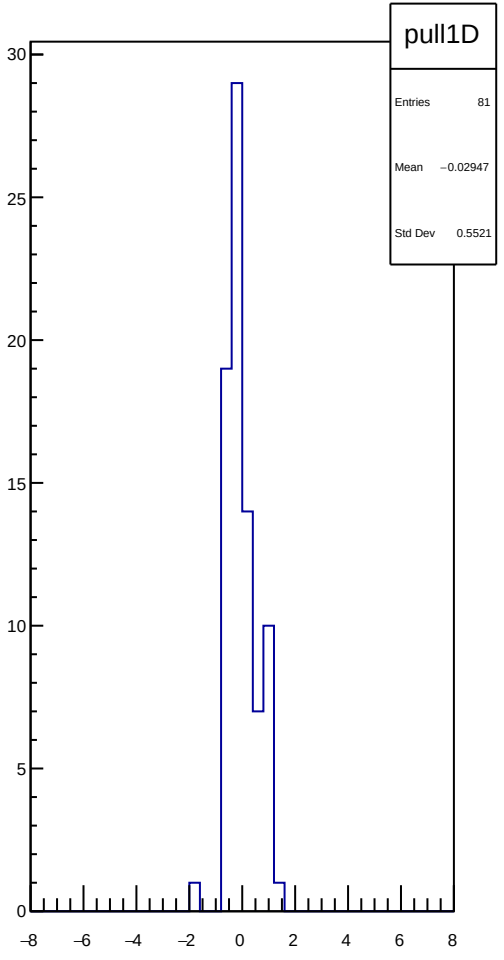

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 68.73 / 80
p0 7.446 ± 1.43
pull
Entries 81
Mean −138.4
Std Dev 166.2
pull1D
Entries 81
Mean −0.01904
Std Dev 0.9209

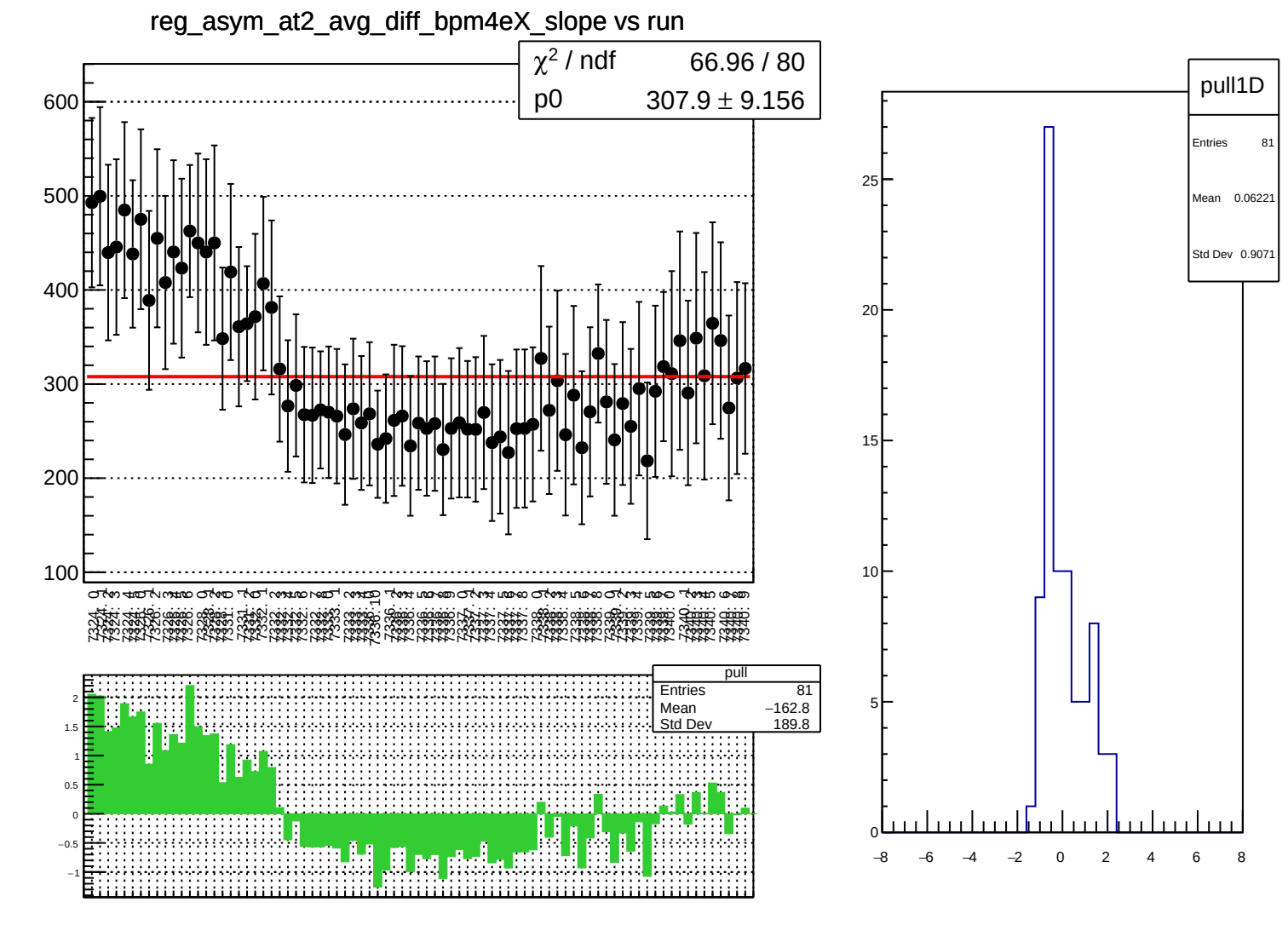

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 66.13 / 80
p0 1.094 ± 0.07013
pull
Entries 81
Mean 51.14
Std Dev 31.52
pull1D
Entries 81
Mean 0.02409
Std Dev 0.9032

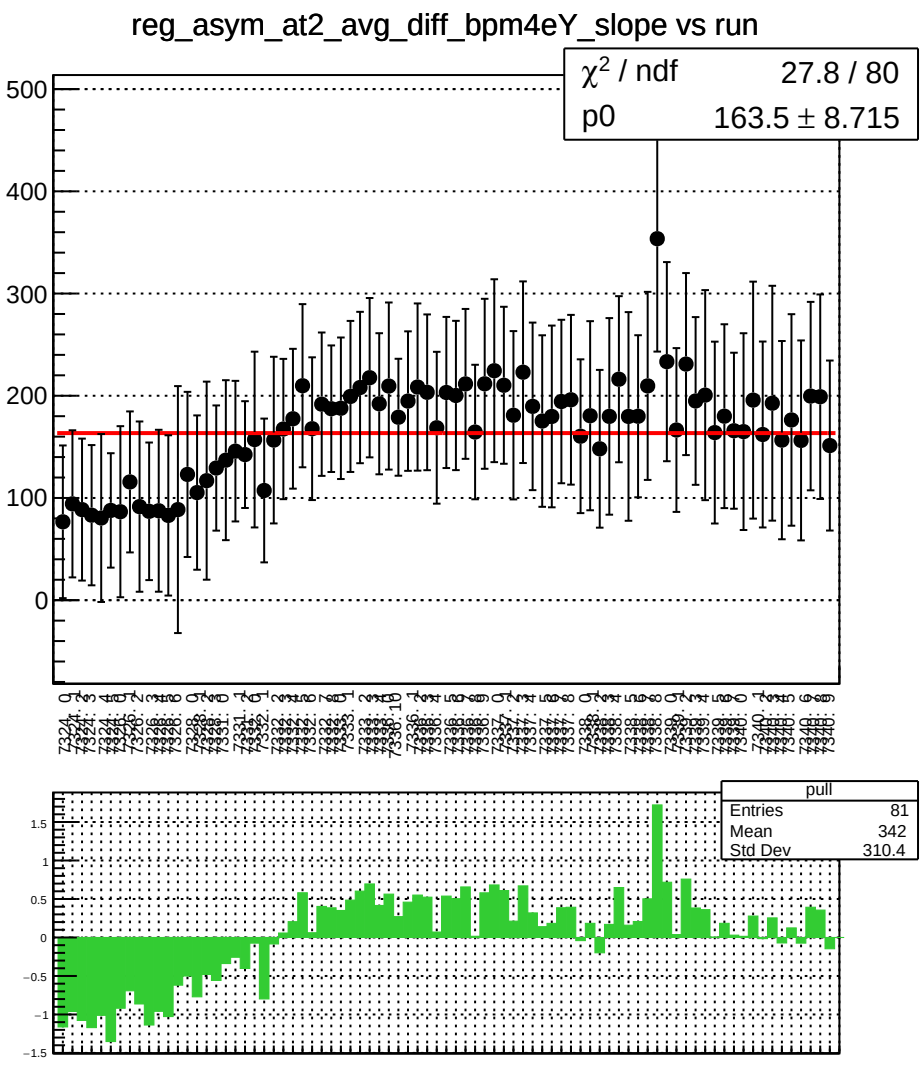

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 66.58 / 80
p0 −286.9 ± 9.228
pull
Entries 81
Mean −159.5
Std Dev 186.1

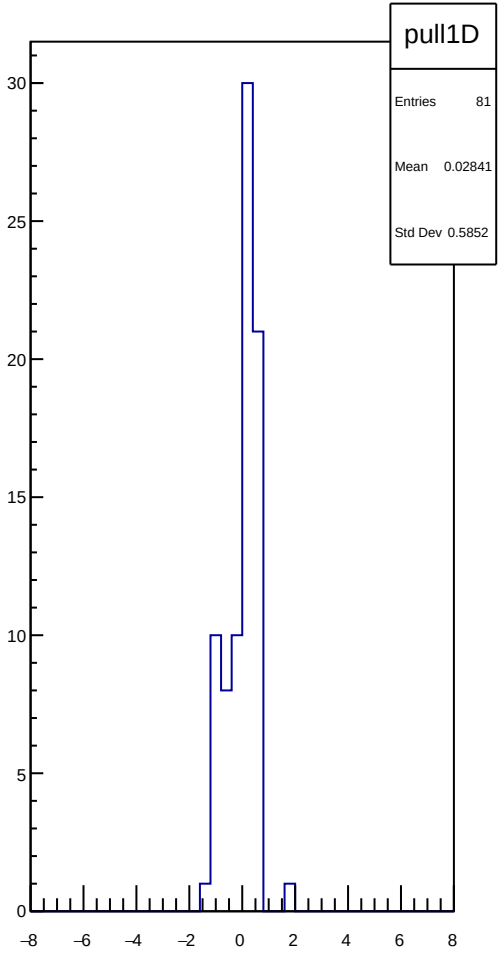

pull1D
Entries 81
Mean −0.06175
Std Dev 0.9046

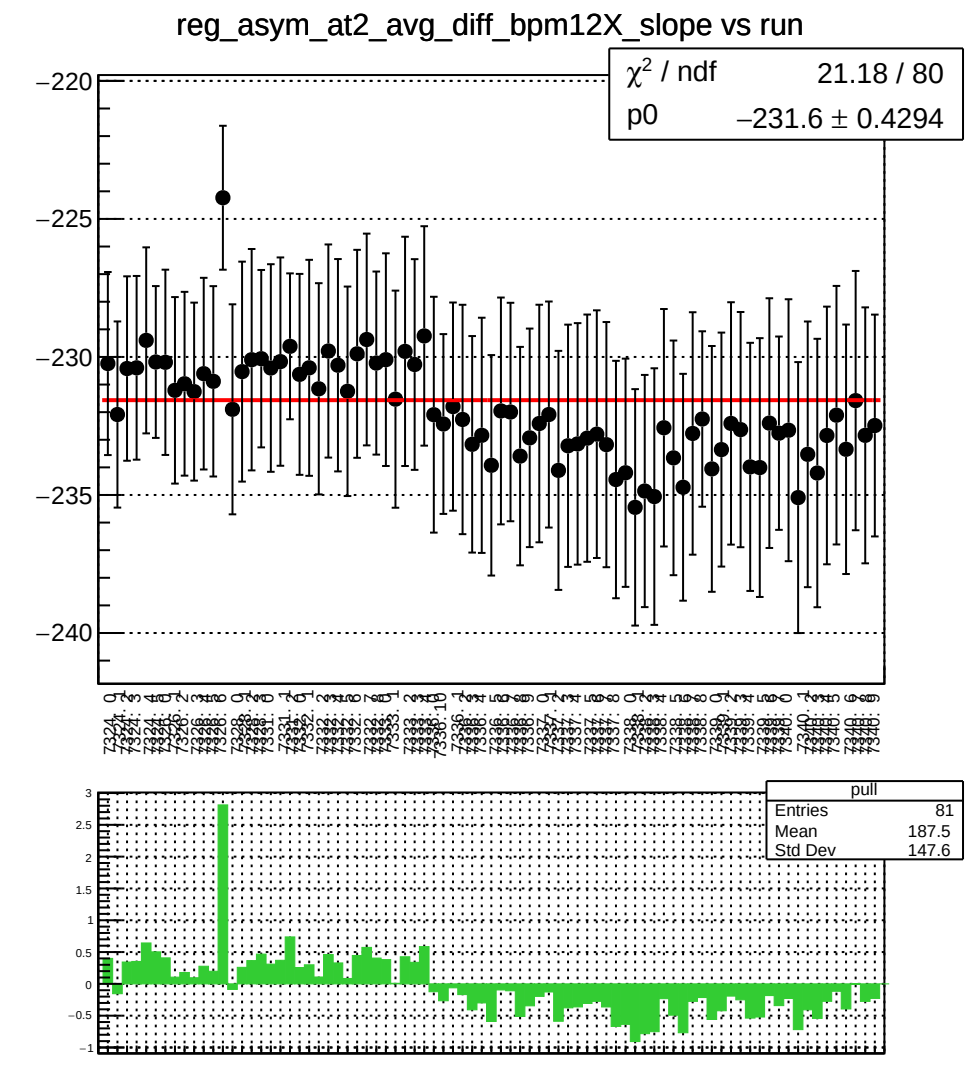

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.76 / 80
p0 −39.7 ± 8.28
pull
Entries 81
Mean 304.7
Std Dev 273.2

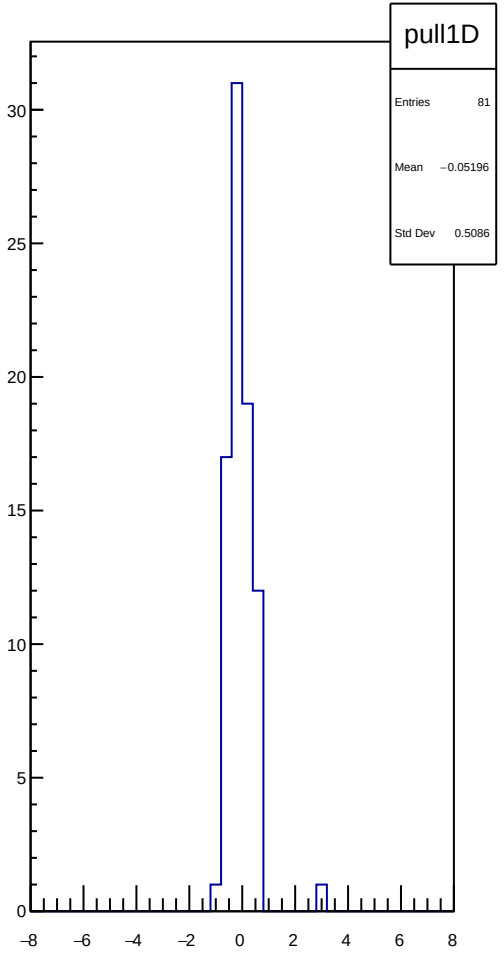

pull1D
Entries 81
Mean −0.02947
Std Dev 0.5521

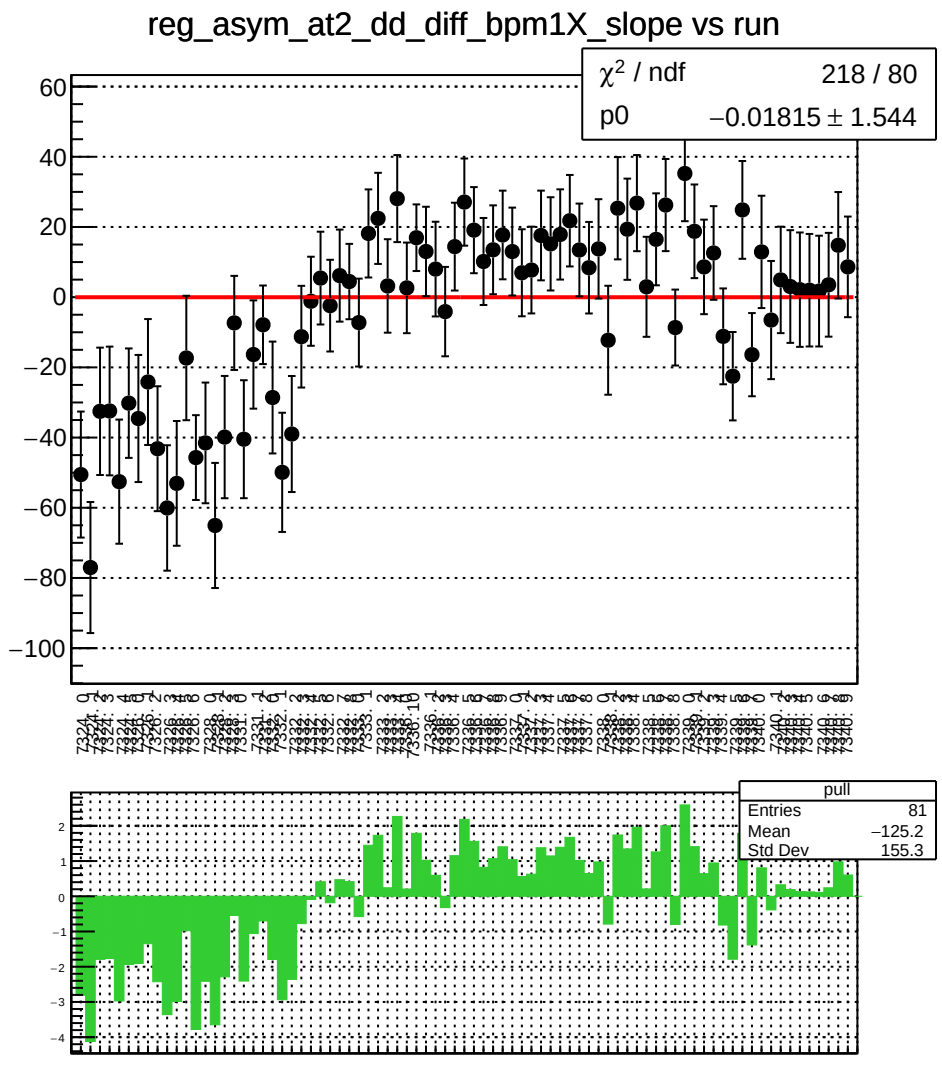

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 66.96 / 80
p0 307.9 ± 9.156
600
500
400
300
200
100
pull
Entries 81
Mean −162.8
Std Dev 189.8
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.06221
Std Dev 0.9071
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

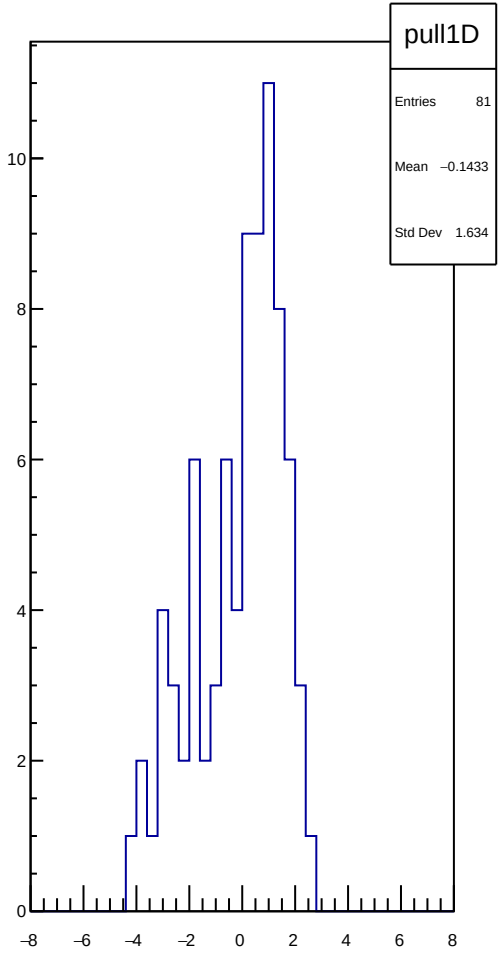

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.8 / 80
p0 163.5 ± 8.715
pull
Entries 81
Mean 342
Std Dev 310.4

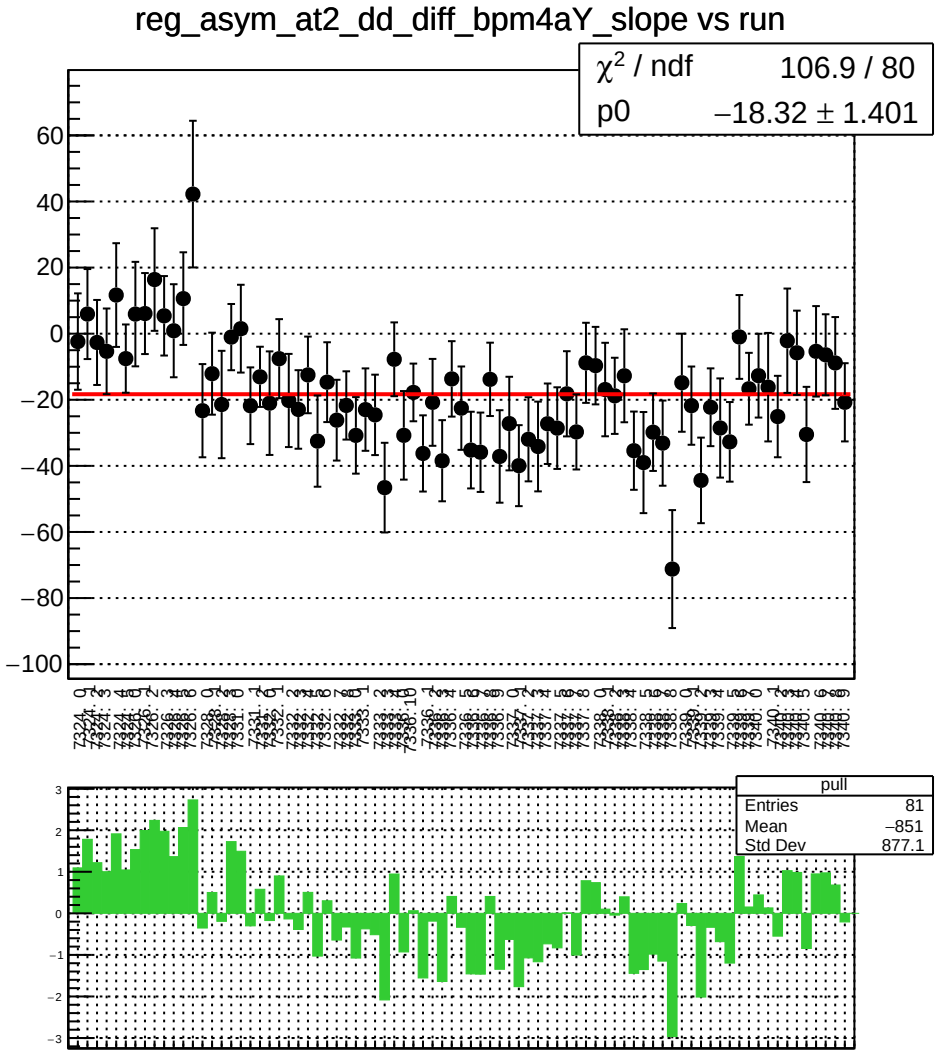

pull1D
Entries 81
Mean 0.02841
Std Dev 0.5852

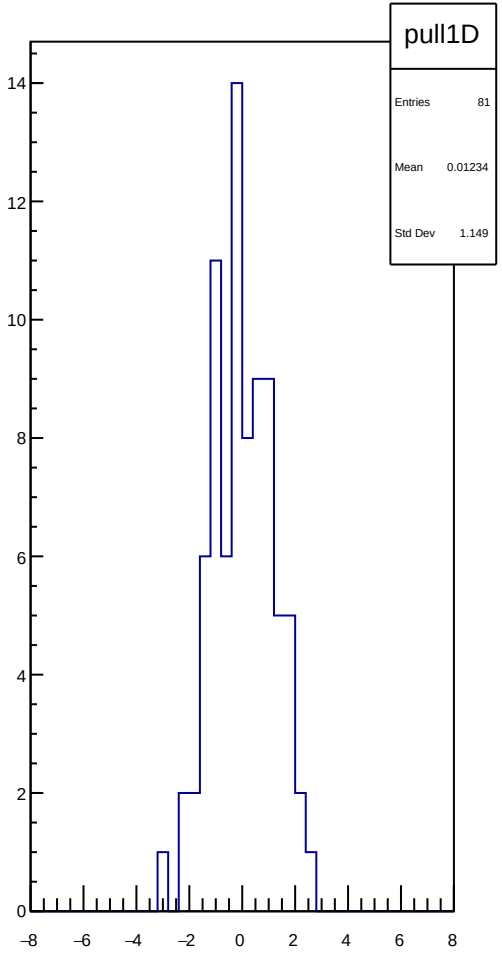

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 21.18 / 80
p0 −231.6 ± 0.4294
−220
−225
−230
−235
−240
pull
Entries 81
Mean 187.5
Std Dev 147.6
3
2.5
2
1.5
1
0.5
0
−0.5
−1

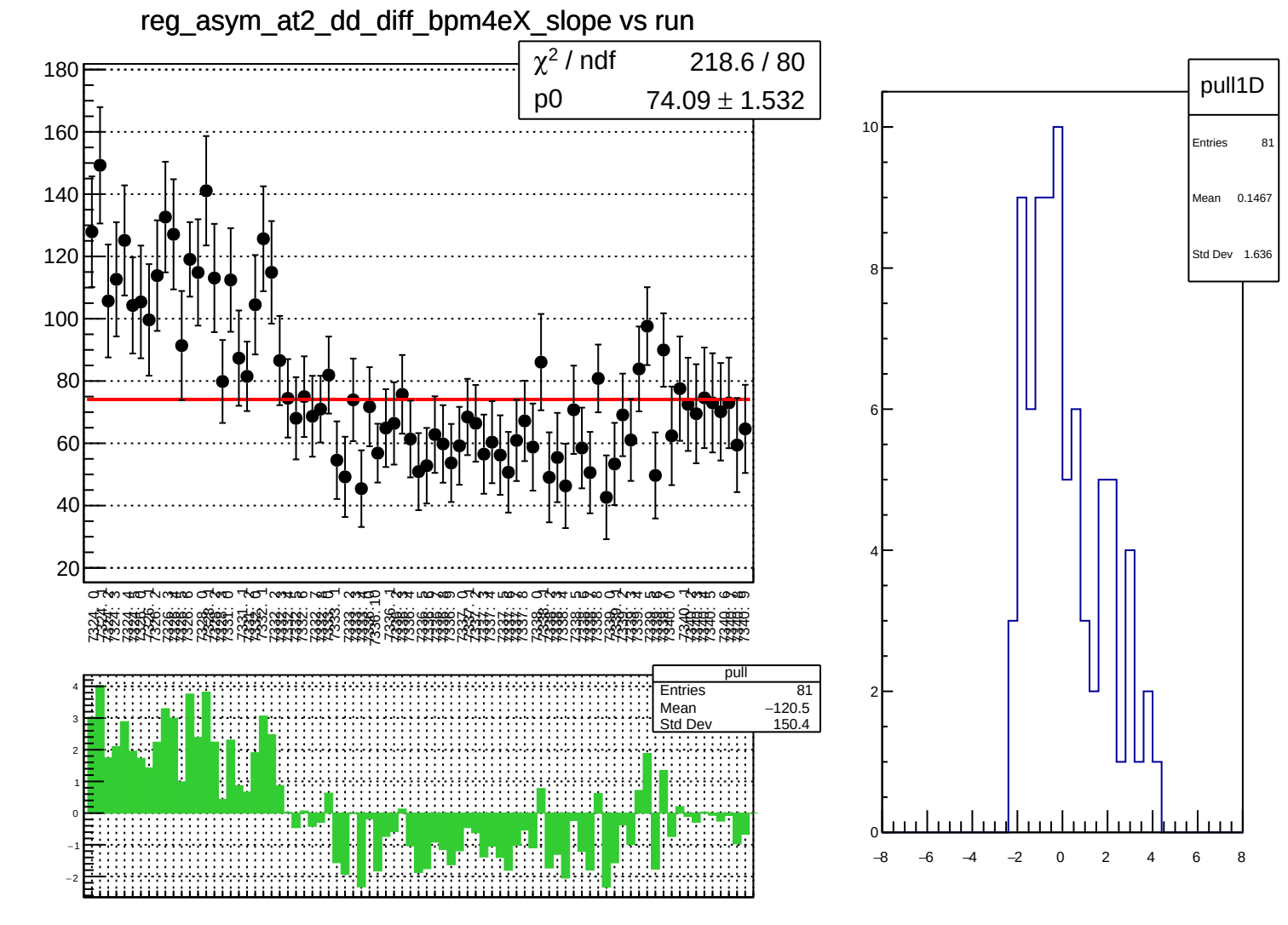

pull1D
Entries 81
Mean −0.05196
Std Dev 0.5086
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

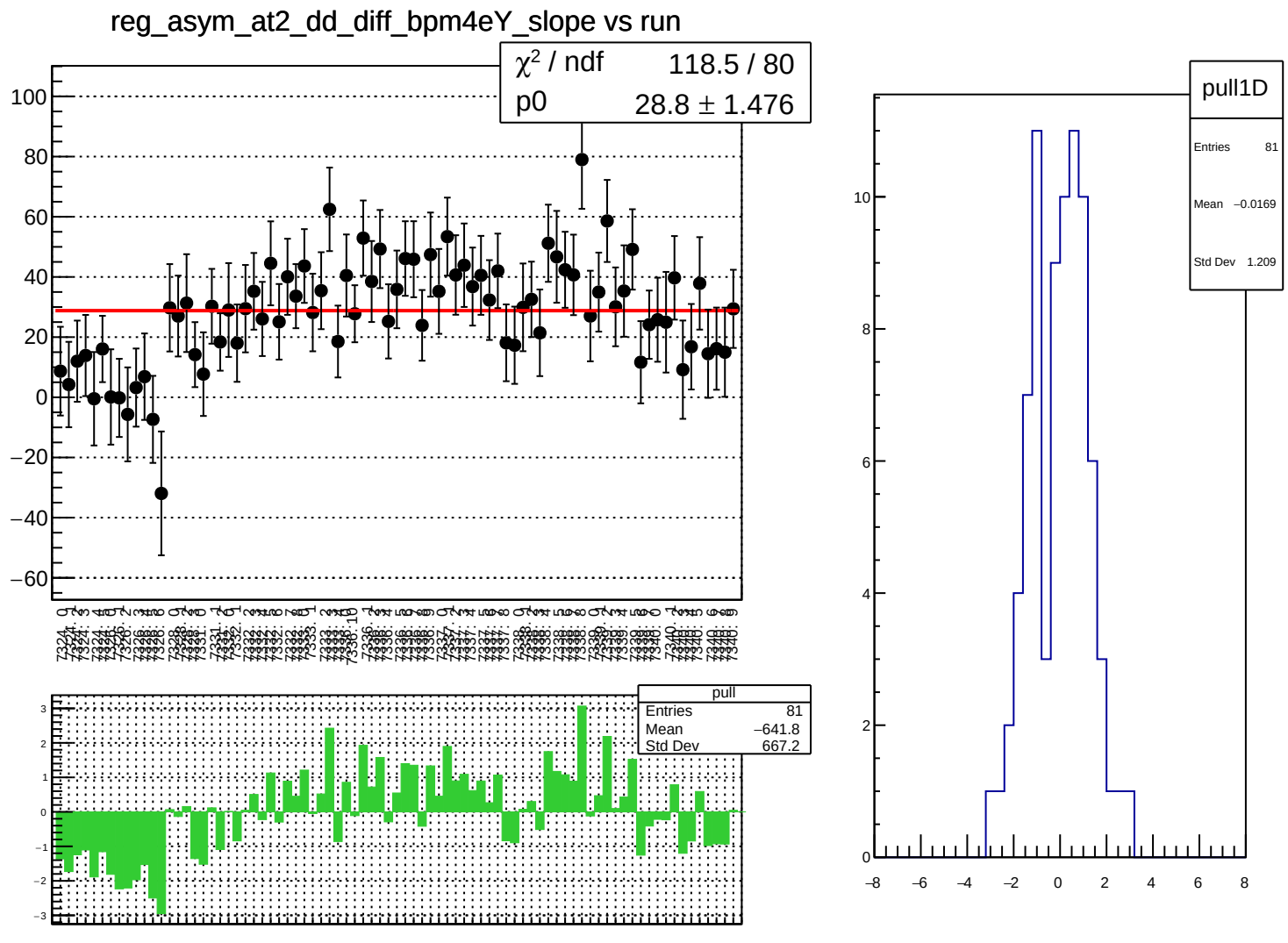

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 218 / 80
p0 −0.01815 ± 1.544
pull
Entries 81
Mean −125.2
Std Dev 155.3

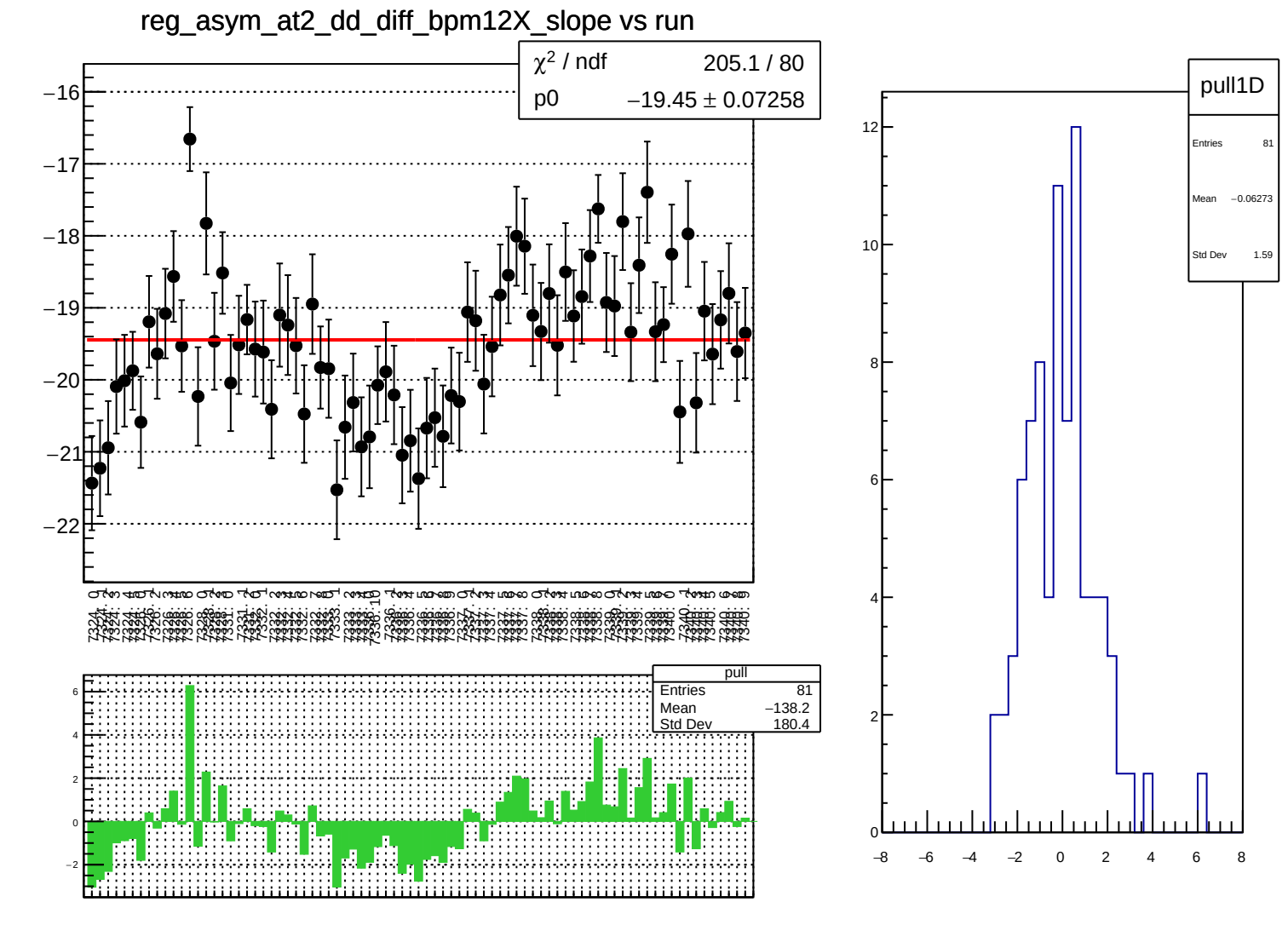

pull1D
Entries 81
Mean −0.1433
Std Dev 1.634

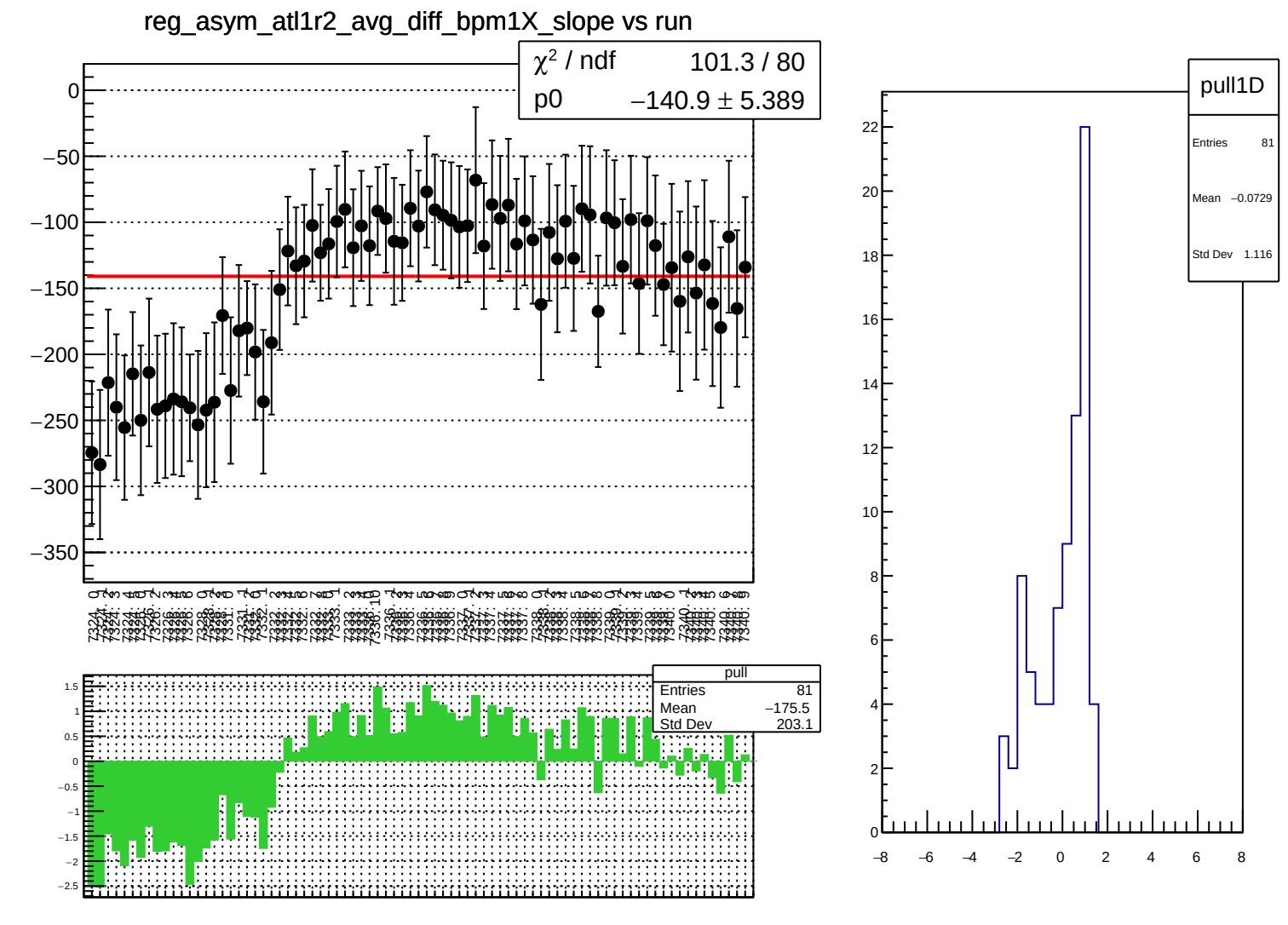

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 106.9 / 80
p0 −18.32 ± 1.401
pull
Entries 81
Mean −851
Std Dev 877.1

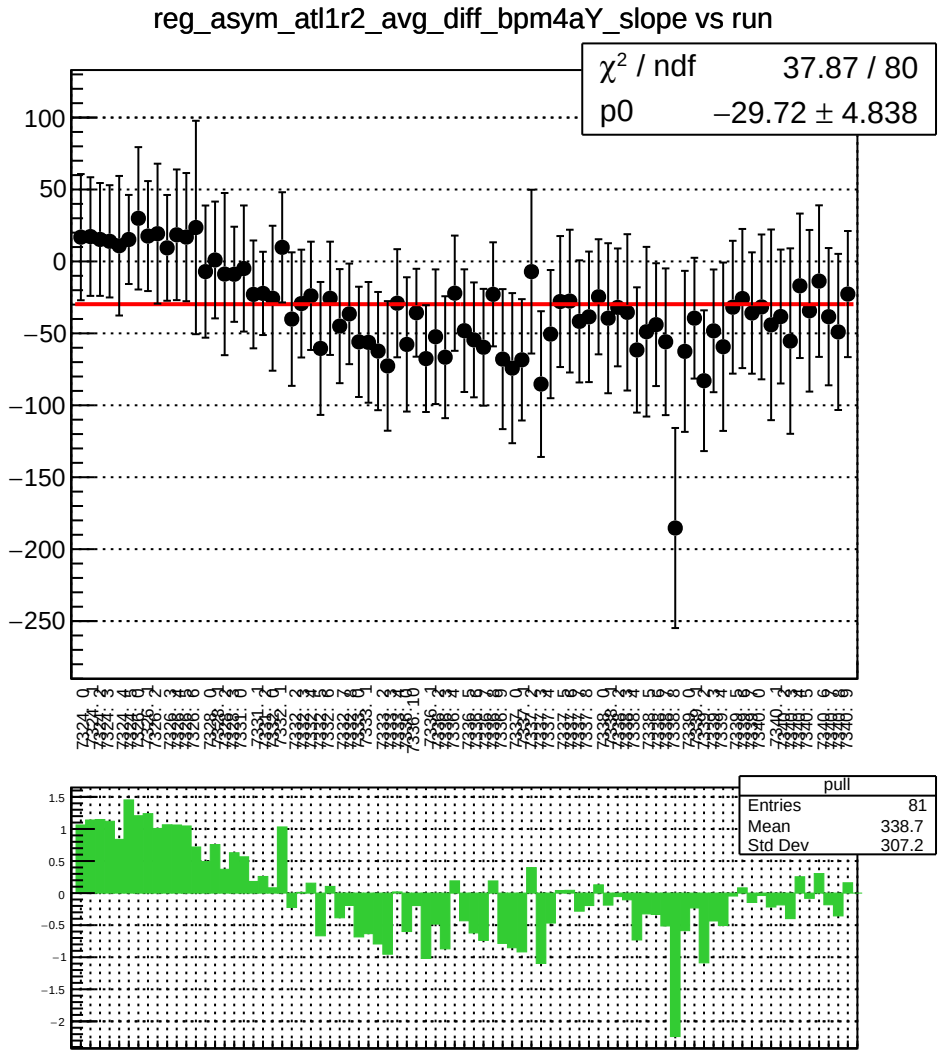

pull1D
Entries 81
Mean 0.01234
Std Dev 1.149

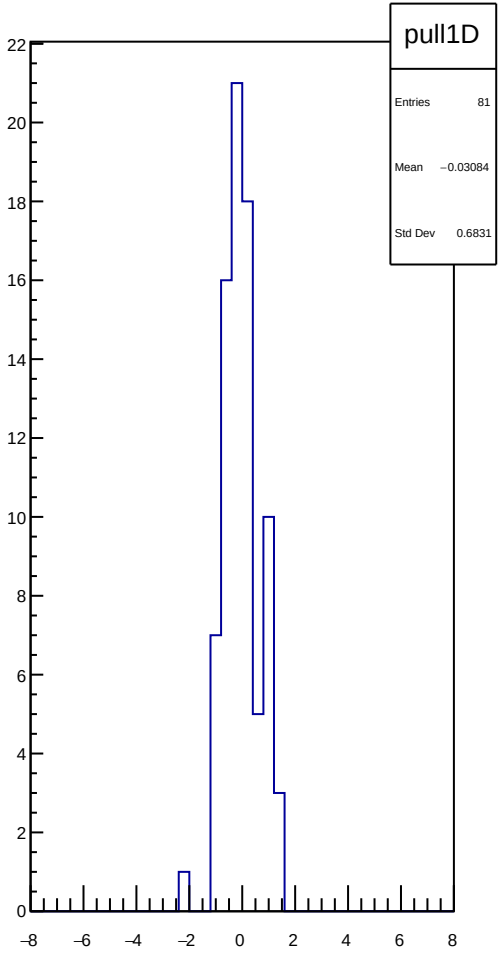

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 218.6 / 80
p0 74.09 ± 1.532
pull
Entries 81
Mean −120.5
Std Dev 150.4
pull1D
Entries 81
Mean 0.1467
Std Dev 1.636

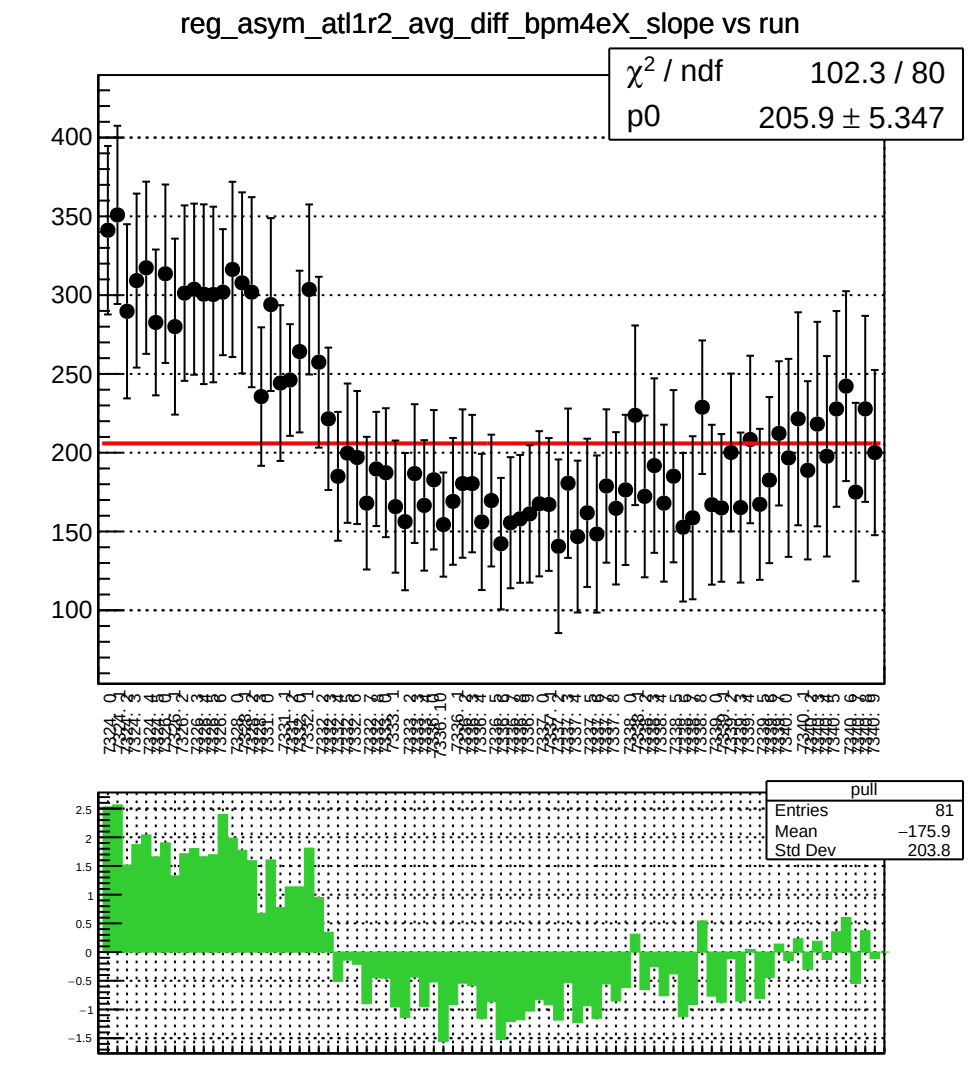

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 118.5 / 80
p0 28.8 ± 1.476
pull
Entries 81
Mean −641.8
Std Dev 667.2
pull1D
Entries 81
Mean −0.0169
Std Dev 1.209

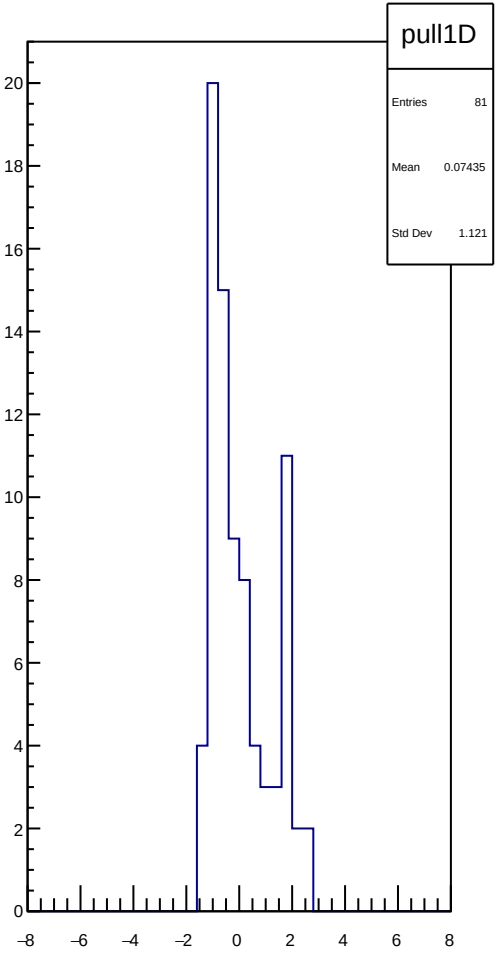

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 205.1 / 80
p0 −19.45 ± 0.07258
pull
Entries 81
Mean −138.2
Std Dev 180.4
pull1D
Entries 81
Mean −0.06273
Std Dev 1.59

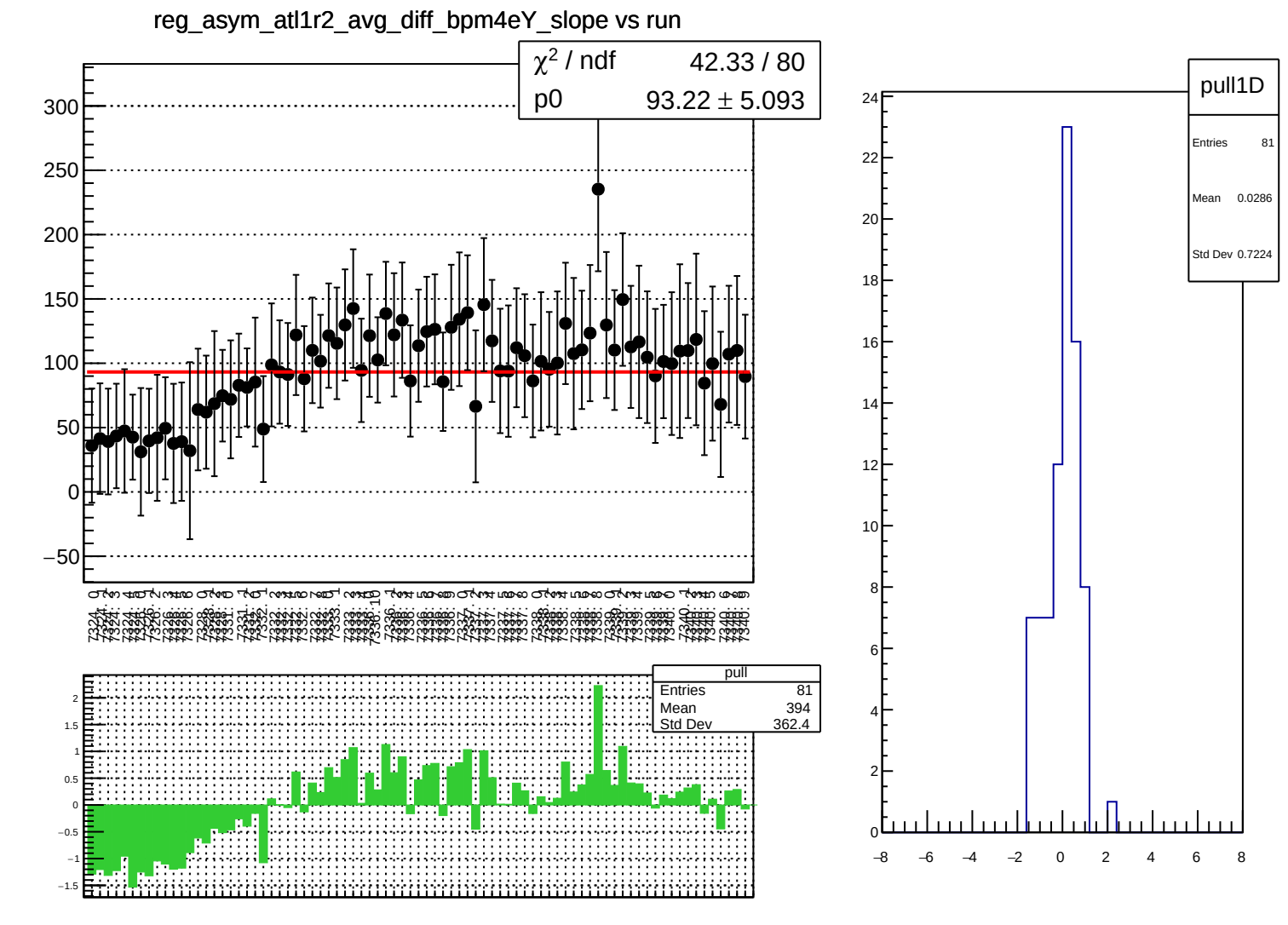

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 101.3 / 80
p0 −140.9 ± 5.389
pull
Entries 81
Mean −175.5
Std Dev 203.1
pull1D
Entries 81
Mean −0.0729
Std Dev 1.116

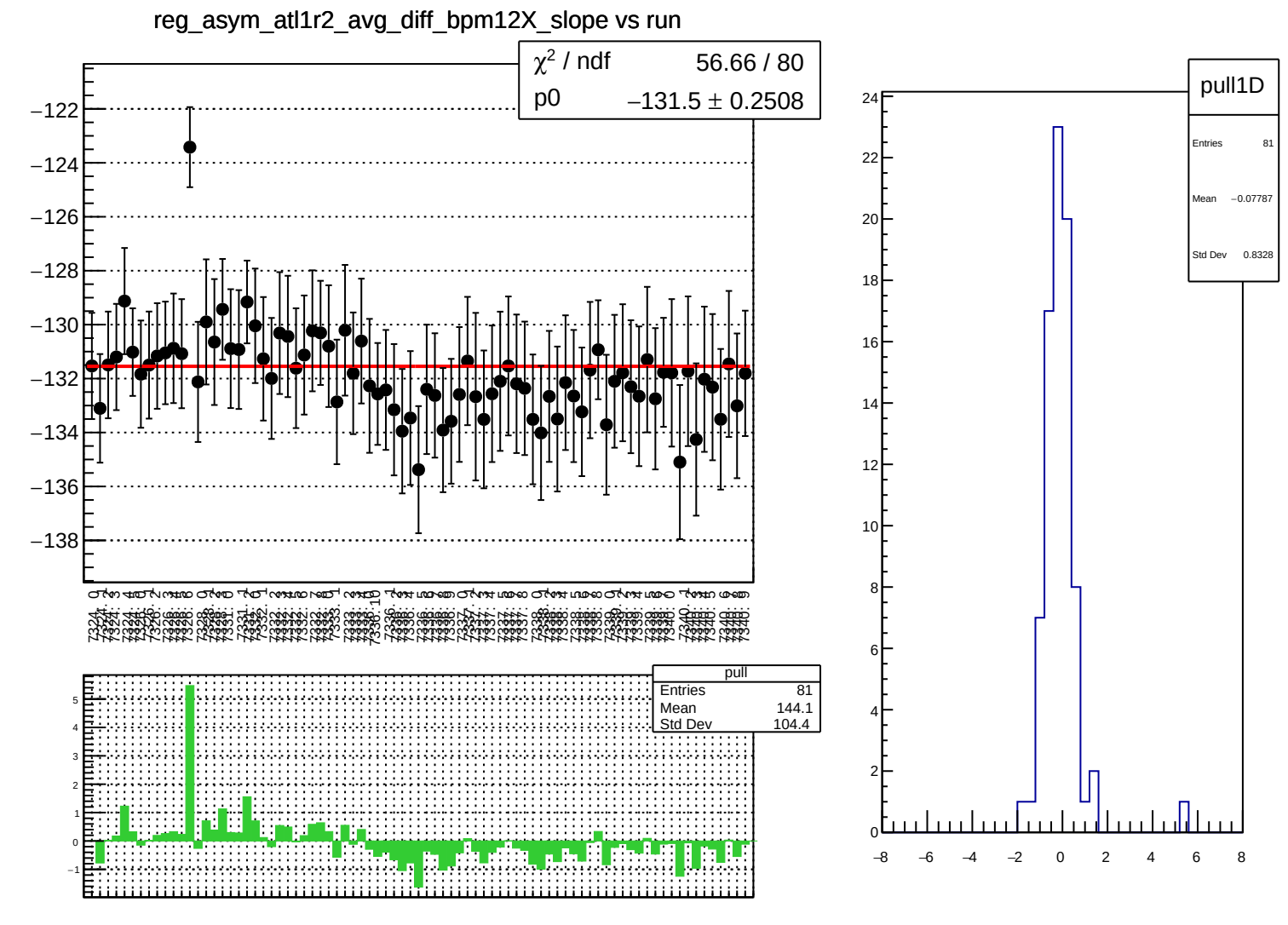

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 37.87 / 80
p0 −29.72 ± 4.838
pull
Entries 81
Mean 338.7
Std Dev 307.2

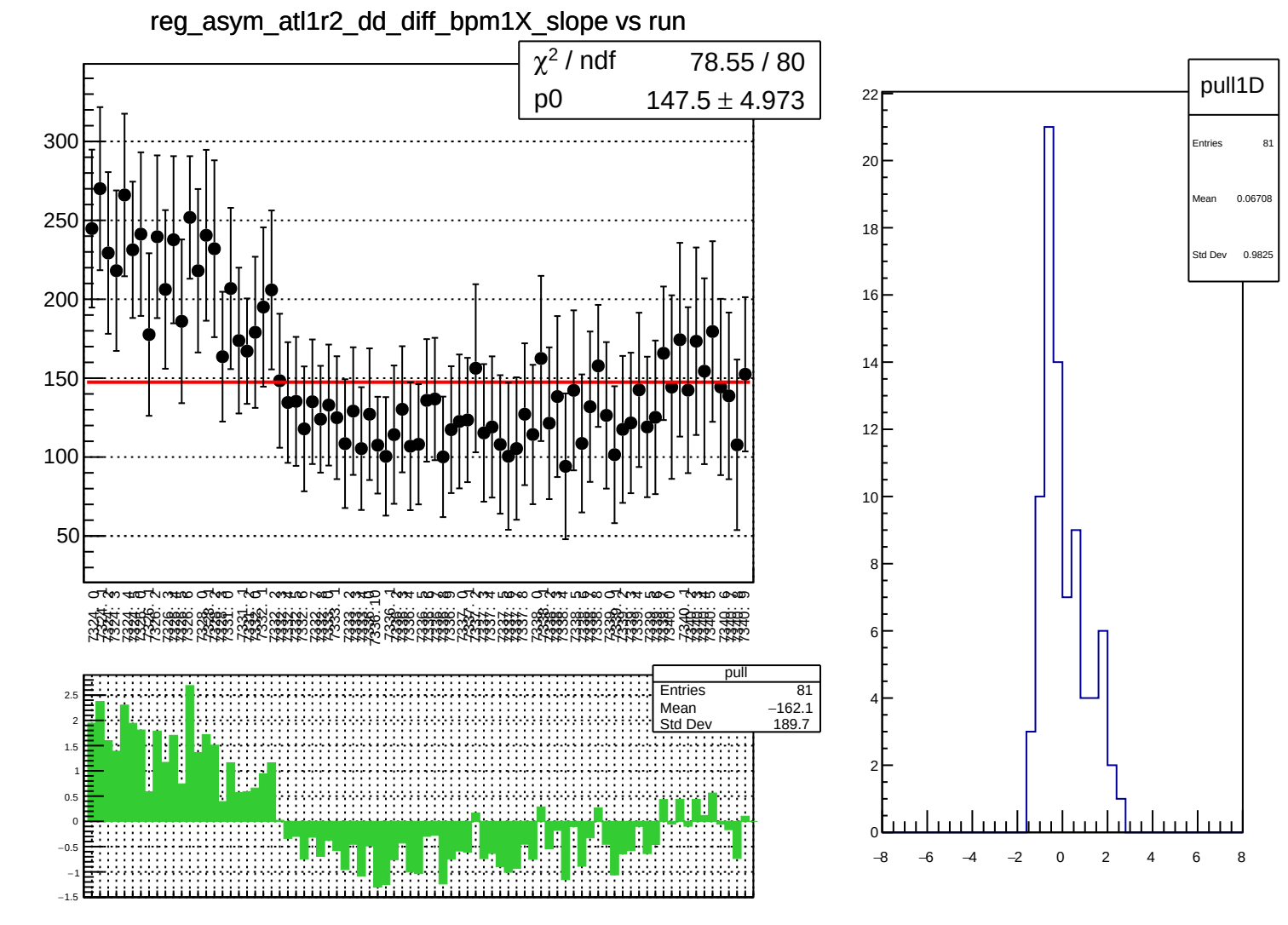

pull1D
Entries 81
Mean −0.03084
Std Dev 0.6831

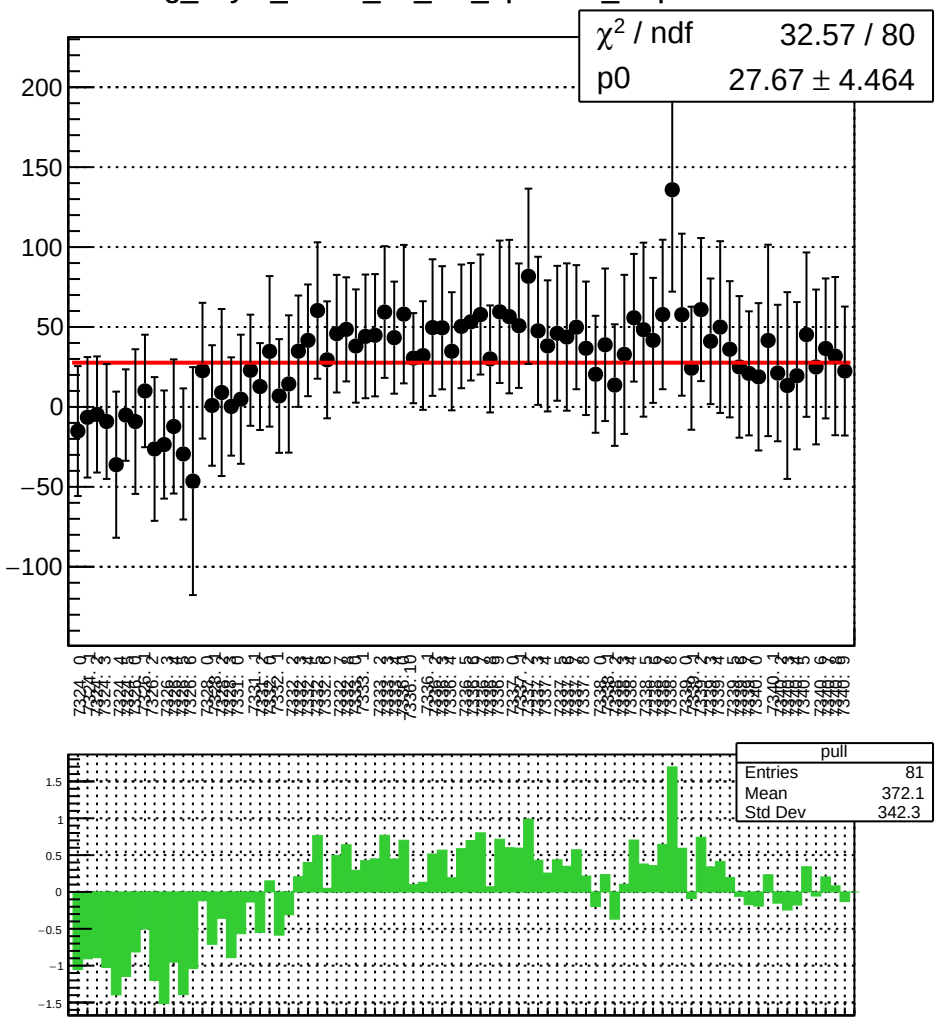

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 102.3 / 80
p0 205.9 ± 5.347
pull
Entries 81
Mean −175.9
Std Dev 203.8

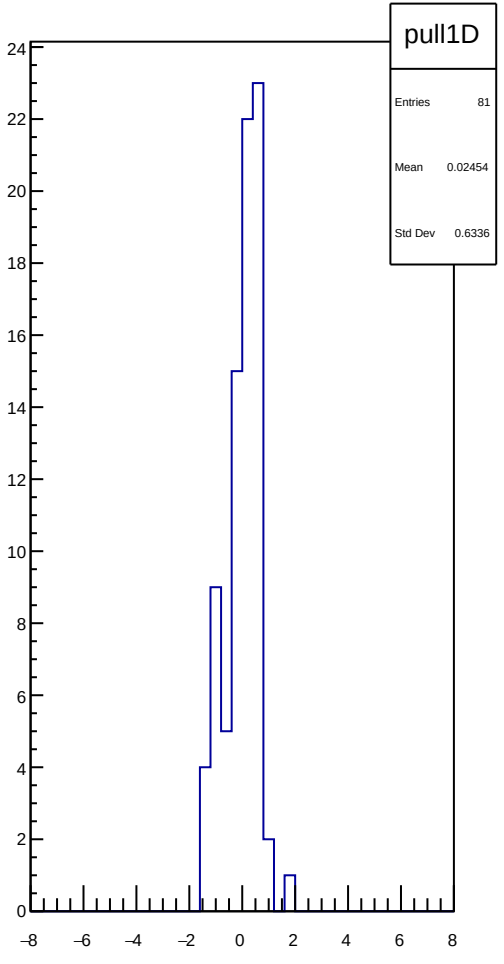

pull1D
Entries 81
Mean 0.07435
Std Dev 1.121

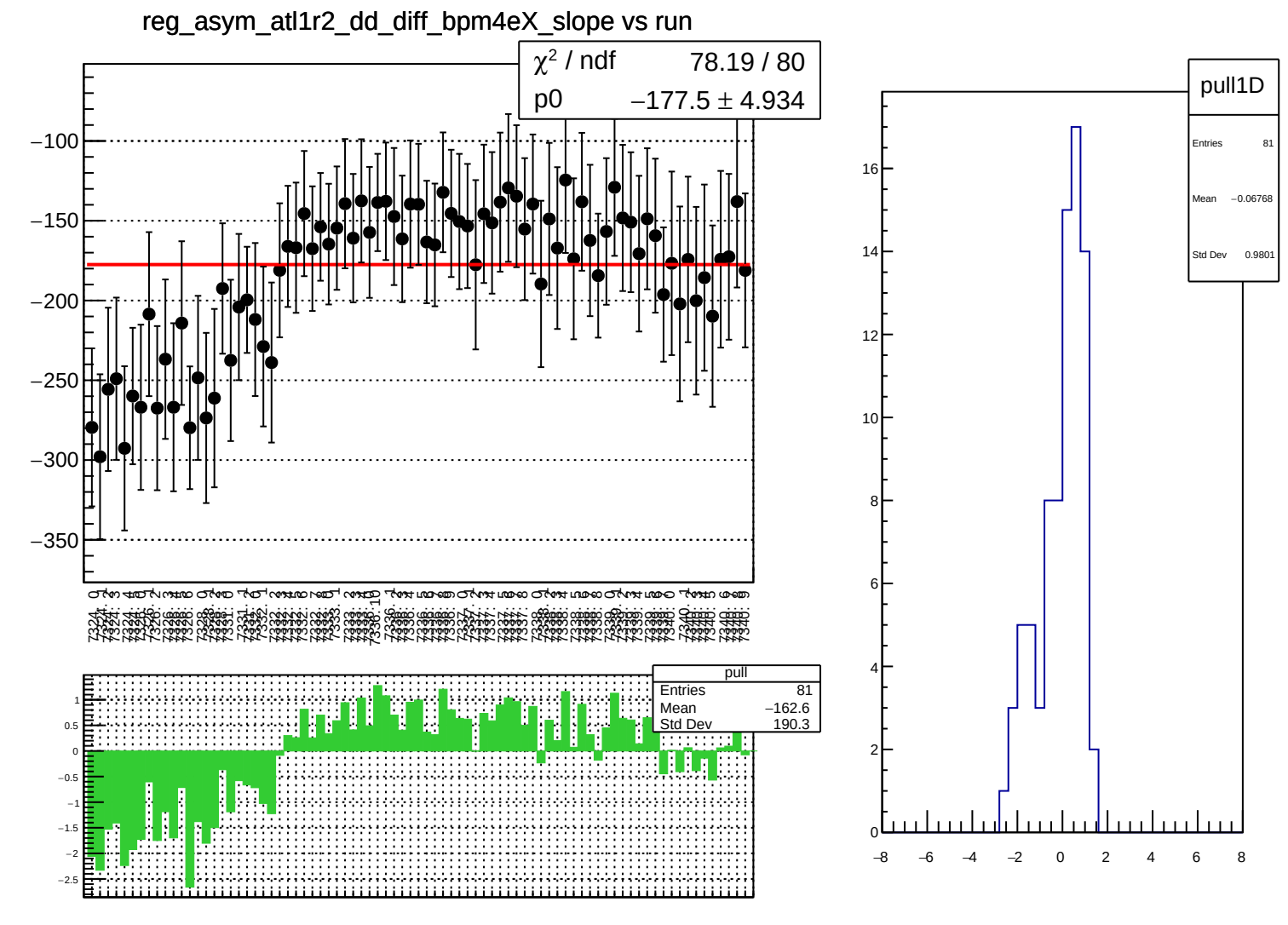

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 42.33 / 80
p0 93.22 ± 5.093
pull
Entries 81
Mean 394
Std Dev 362.4
pull1D
Entries 81
Mean 0.0286
Std Dev 0.7224

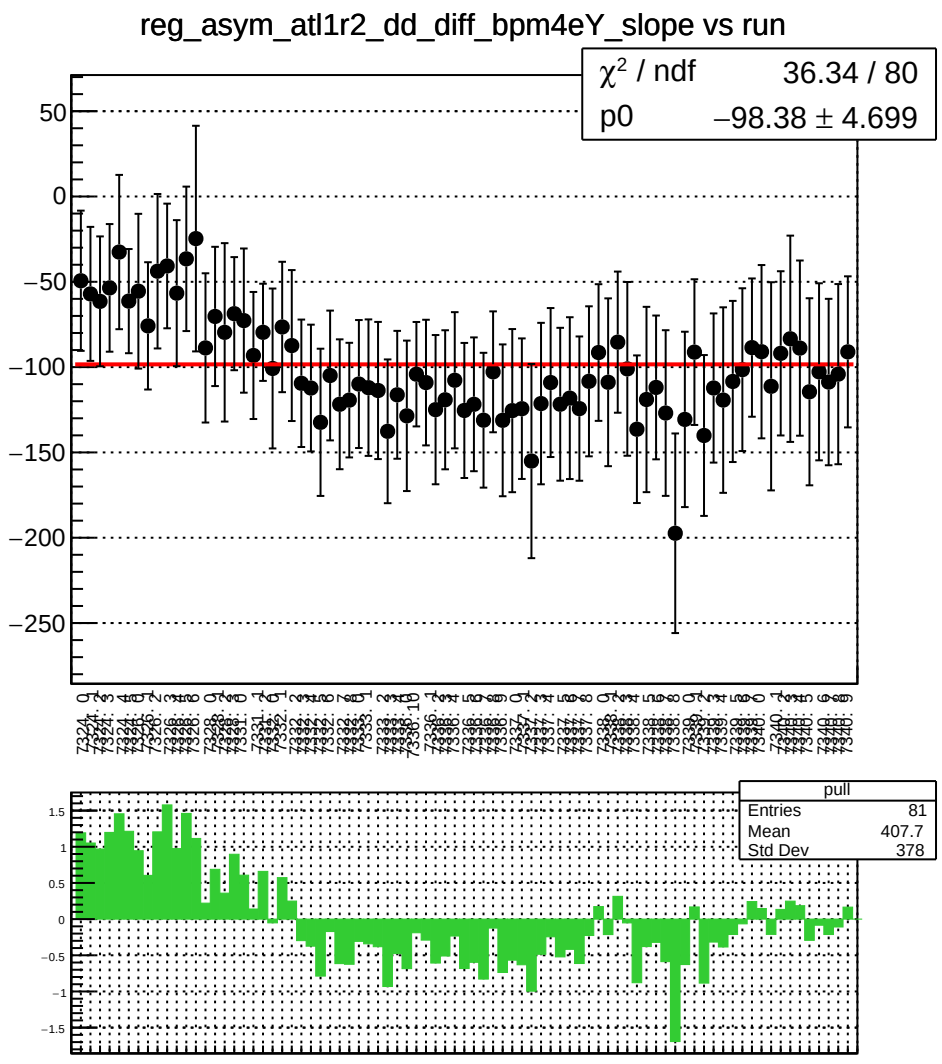

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 56.66 / 80
p0 −131.5 ± 0.2508
pull
Entries 81
Mean 144.1
Std Dev 104.4
pull1D
Entries 81
Mean −0.07787
Std Dev 0.8328

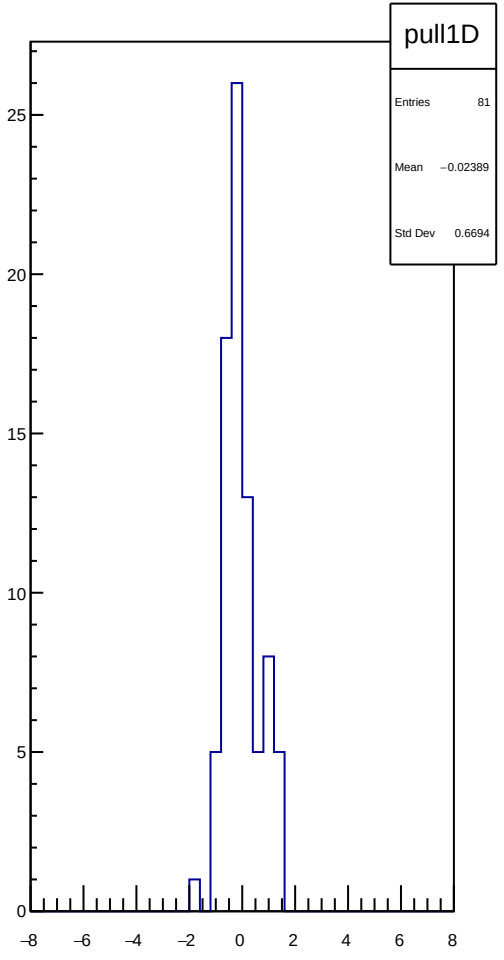

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 78.55 / 80
p0 147.5 ± 4.973
pull
Entries 81
Mean −162.1
Std Dev 189.7
pull1D
Entries 81
Mean 0.06708
Std Dev 0.9825

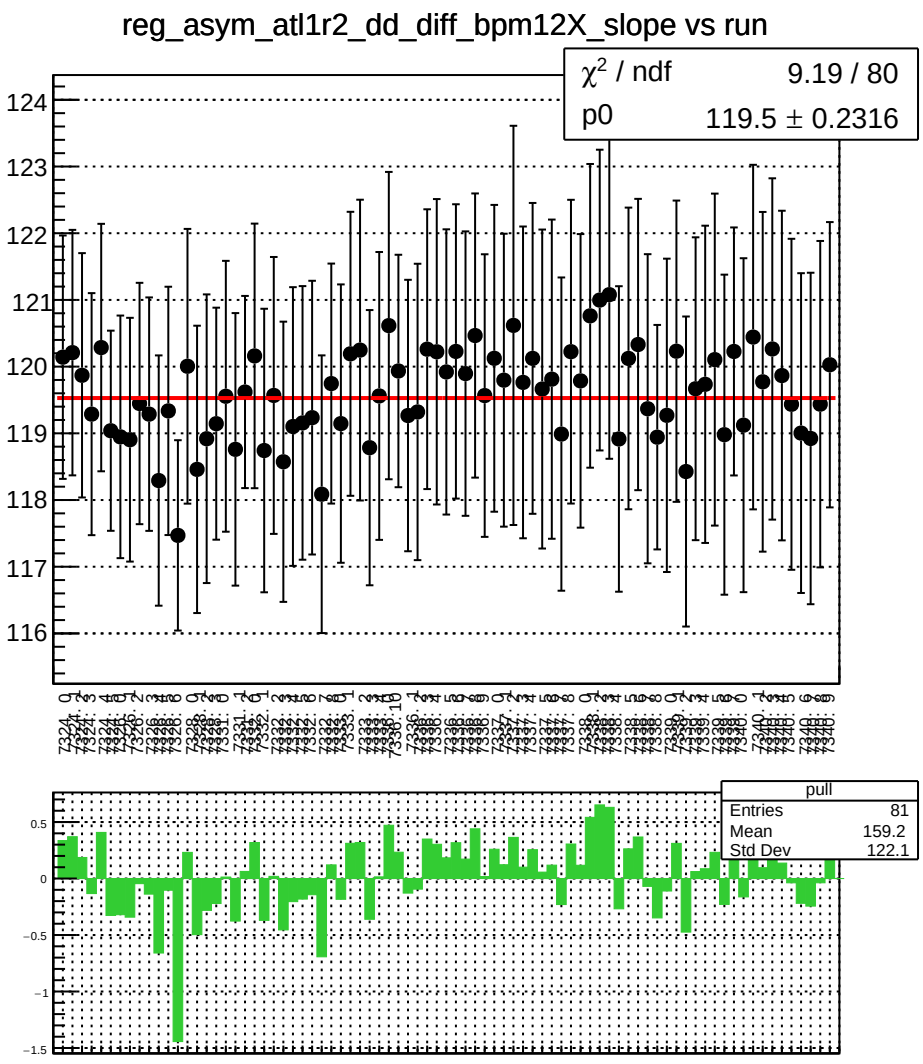

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 32.57 / 80
p0 27.67 ± 4.464
pull
Entries 81
Mean 372.1
Std Dev 342.3

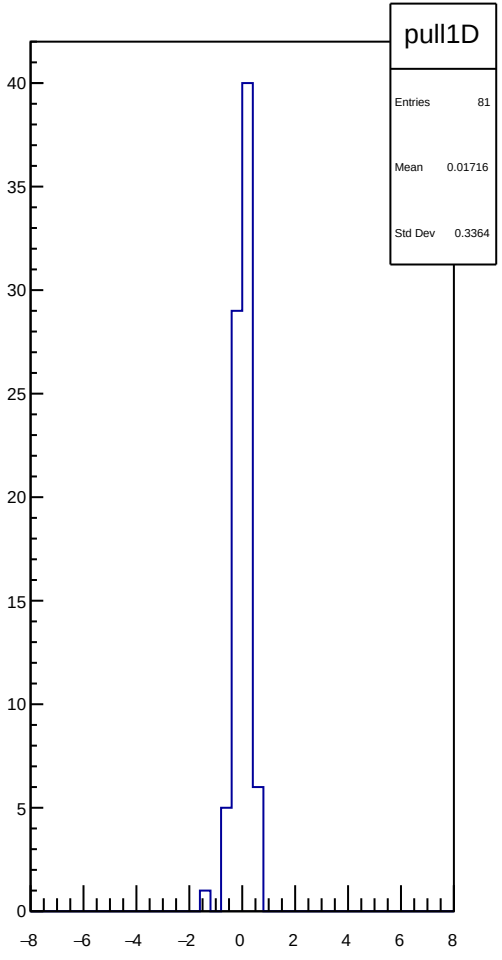

pull1D
Entries 81
Mean 0.02454
Std Dev 0.6336

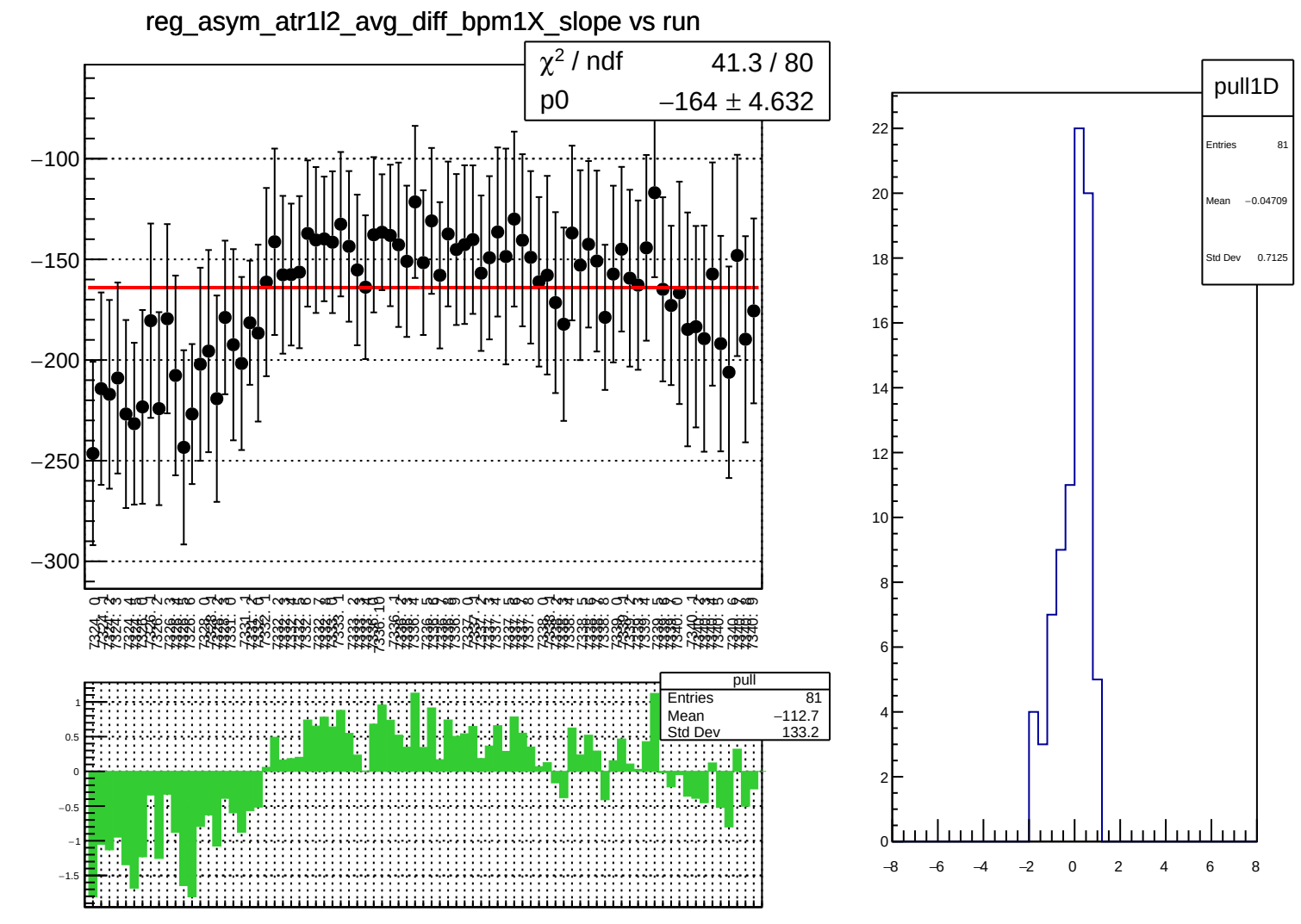

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 78.19 / 80
p0 −177.5 ± 4.934
pull
Entries 81
Mean −162.6
Std Dev 190.3
pull1D
Entries 81
Mean −0.06768
Std Dev 0.9801

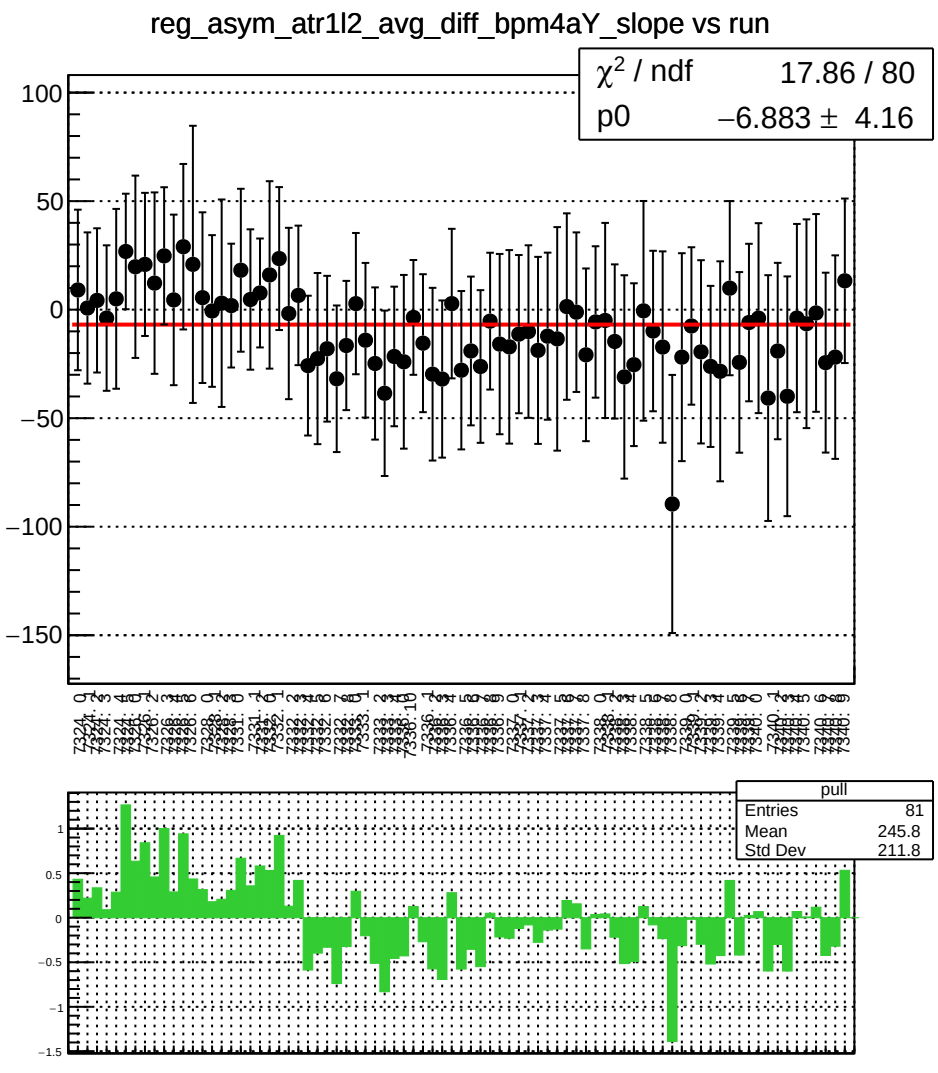

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 36.34 / 80
p0 −98.38 ± 4.699
pull
Entries 81
Mean 407.7
Std Dev 378

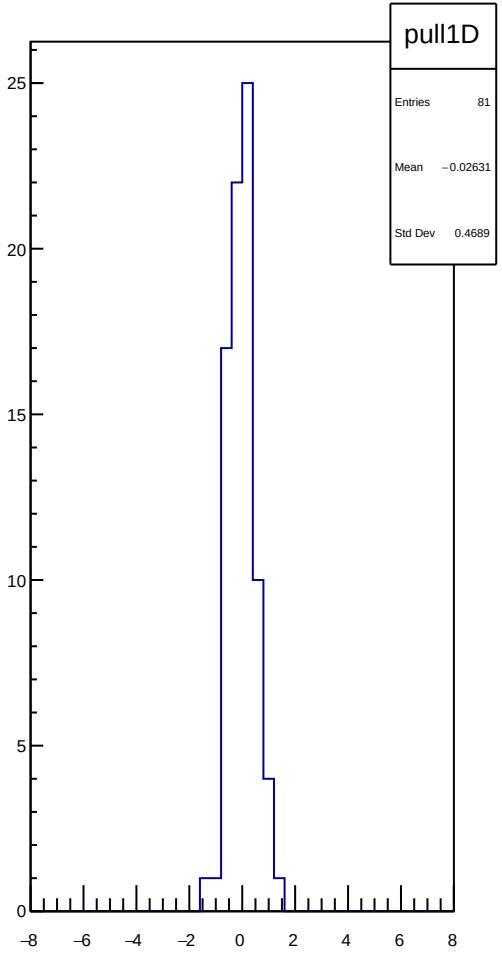

pull1D
Entries 81
Mean −0.02389
Std Dev 0.6694

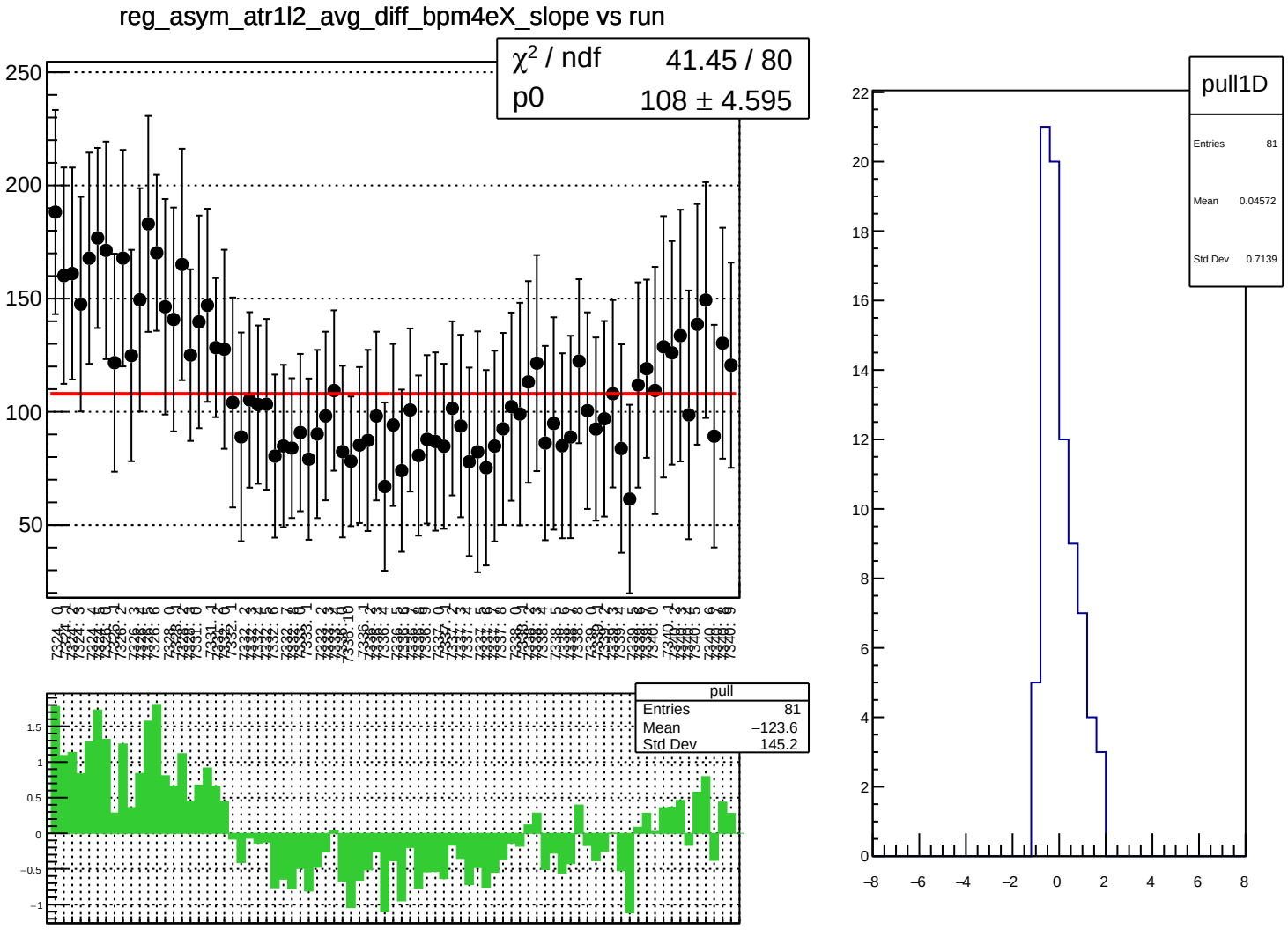

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 9.19 / 80
p0 119.5 ± 0.2316
pull
Entries 81
Mean 159.2
Std Dev 122.1

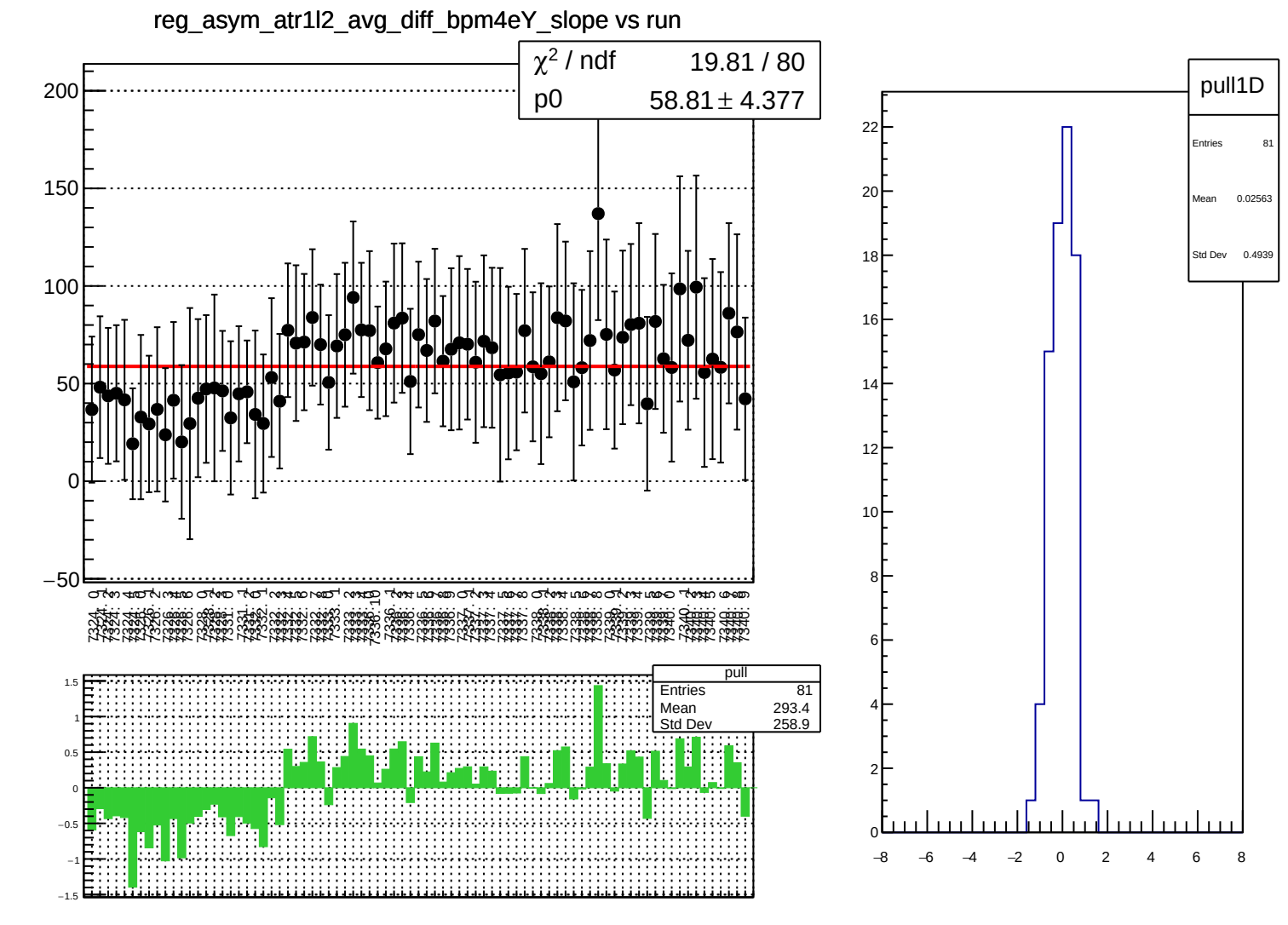

pull1D
Entries 81
Mean 0.01716
Std Dev 0.3364

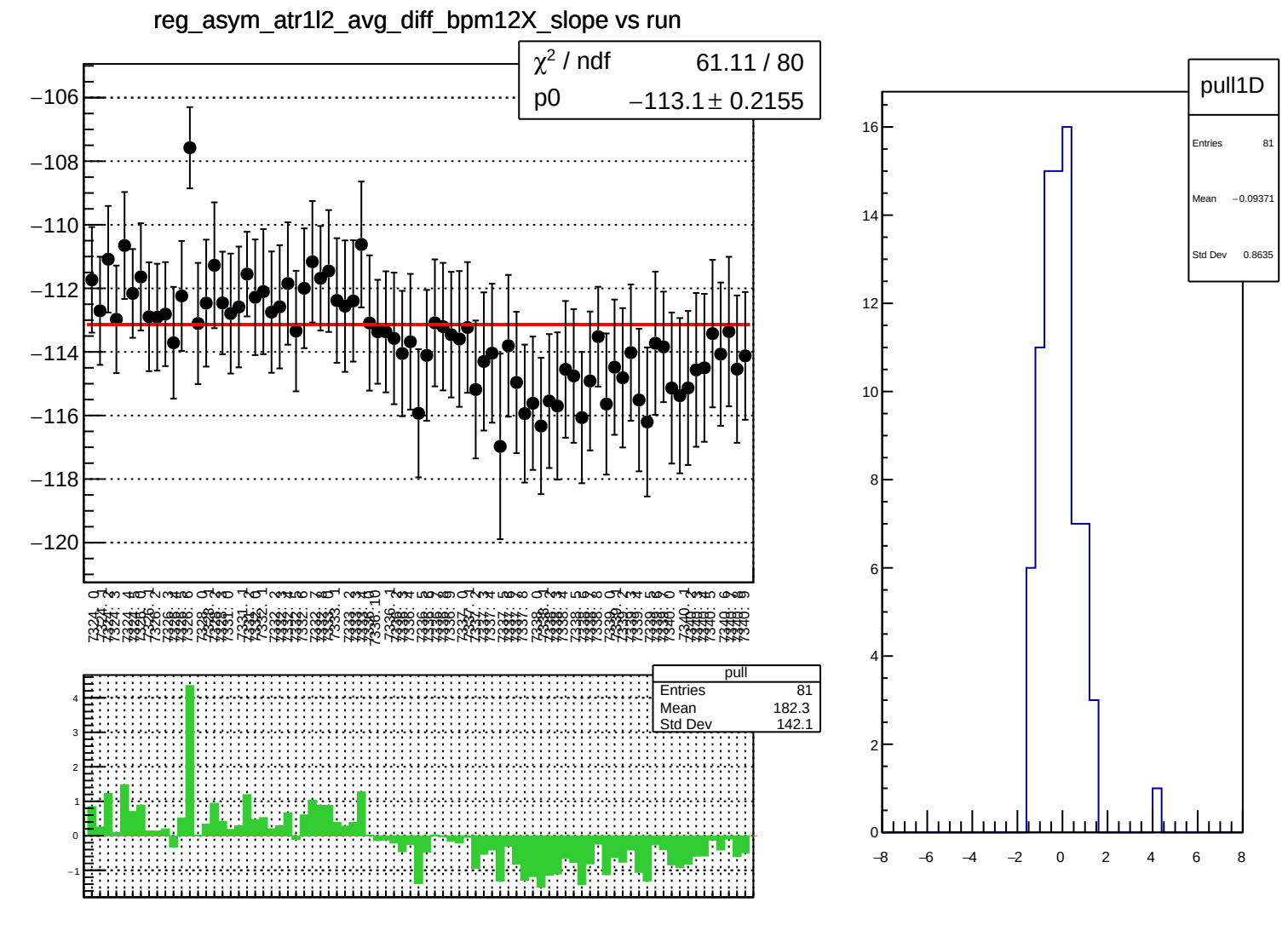

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 41.3 / 80
p0 −164 ± 4.632
−100
−150
−200
−250
−300
pull
Entries 81
Mean −112.7
Std Dev 133.2
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean −0.04709
Std Dev 0.7125
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

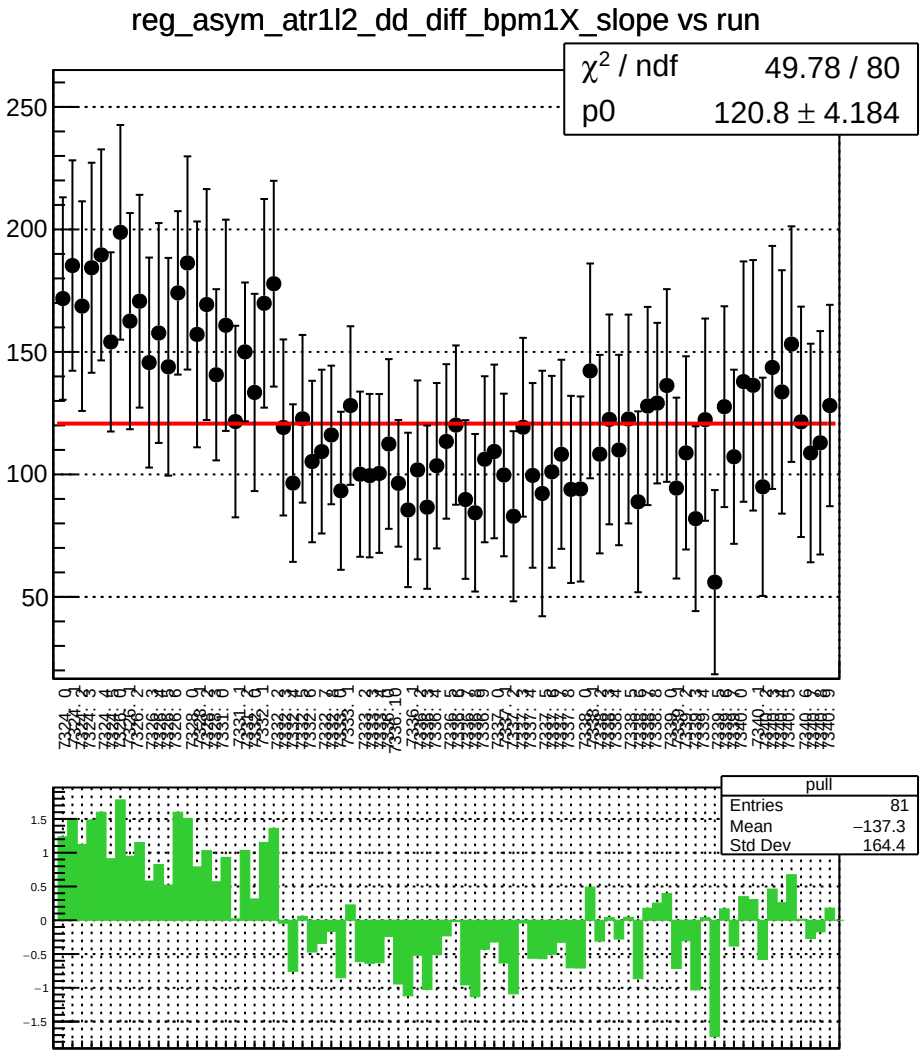

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 17.86 / 80
p0 −6.883 ± 4.16
pull
Entries 81
Mean 245.8
Std Dev 211.8

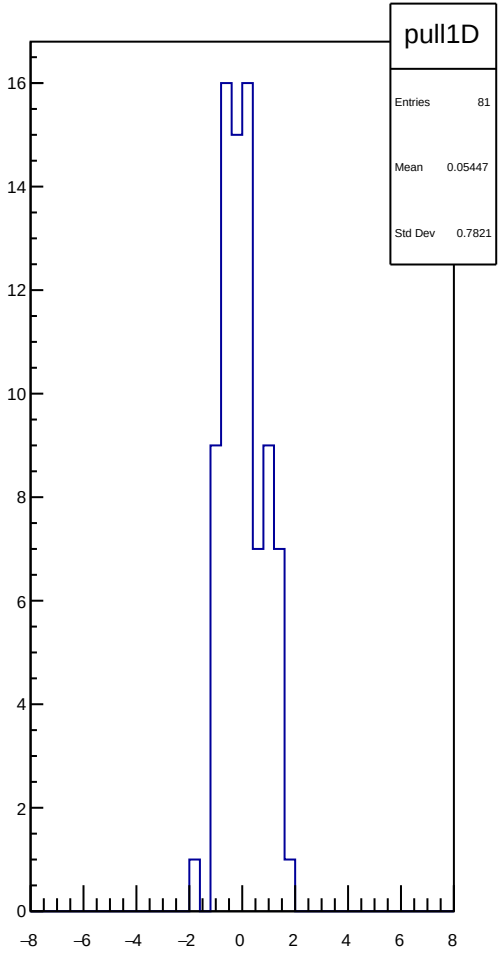

pull1D
Entries 81
Mean −0.02631
Std Dev 0.4689

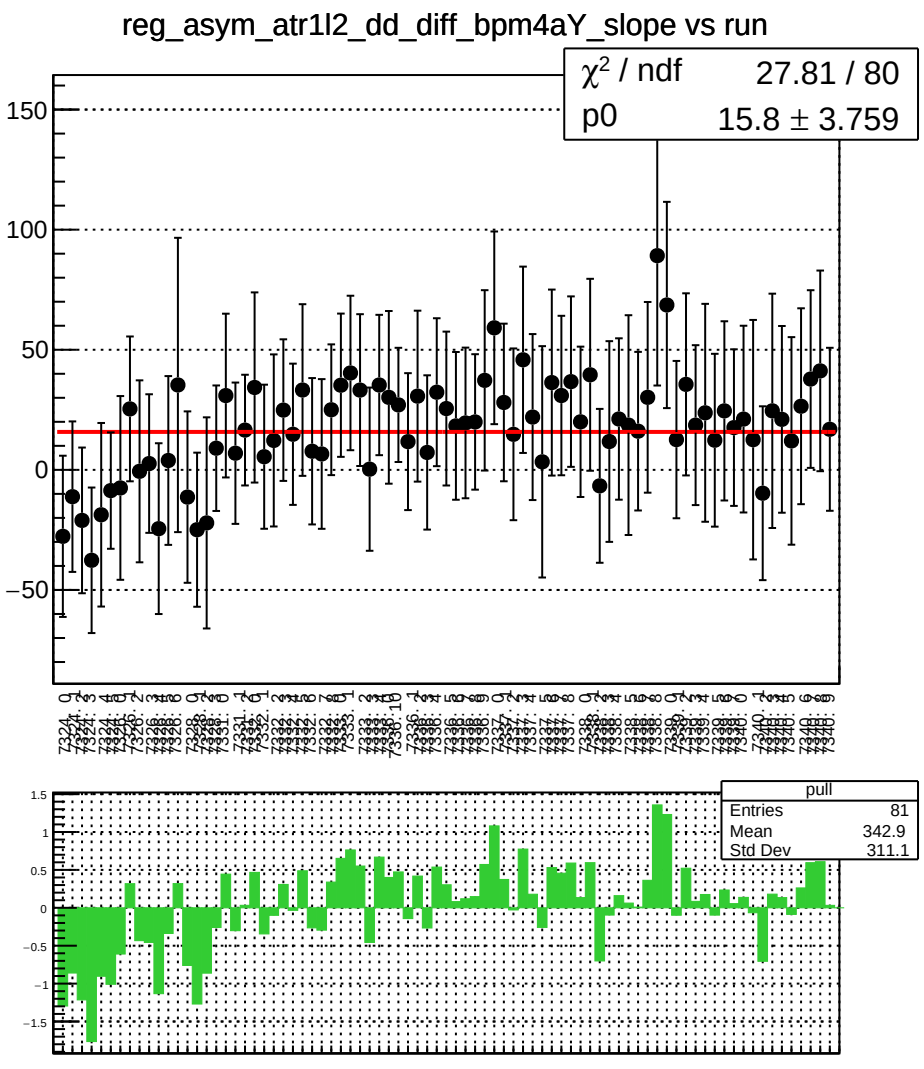

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 41.45 / 80
p0 108 ± 4.595
250
200
150
100
50
pull
Entries 81
Mean −123.6
Std Dev 145.2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 81
Mean 0.04572
Std Dev 0.7139
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

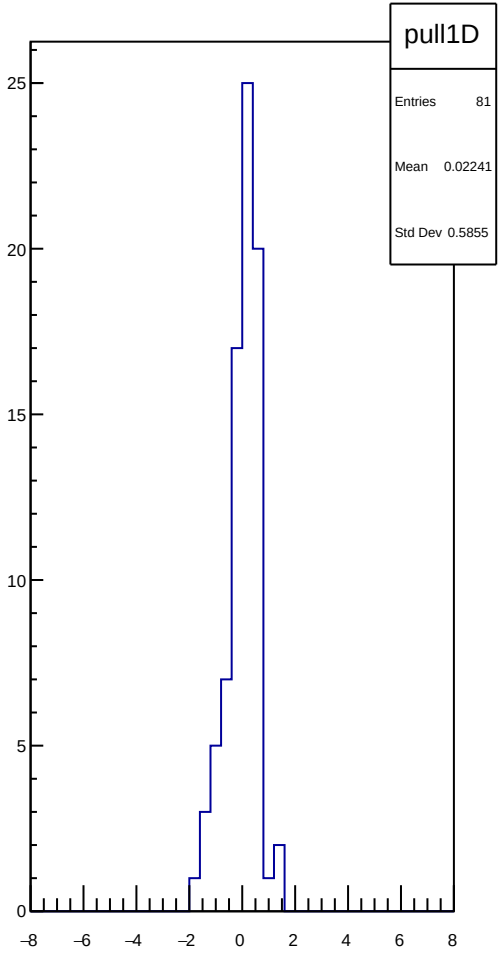

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 19.81 / 80
p0 58.81 ± 4.377
pull
Entries 81
Mean 293.4
Std Dev 258.9
pull1D
Entries 81
Mean 0.02563
Std Dev 0.4939

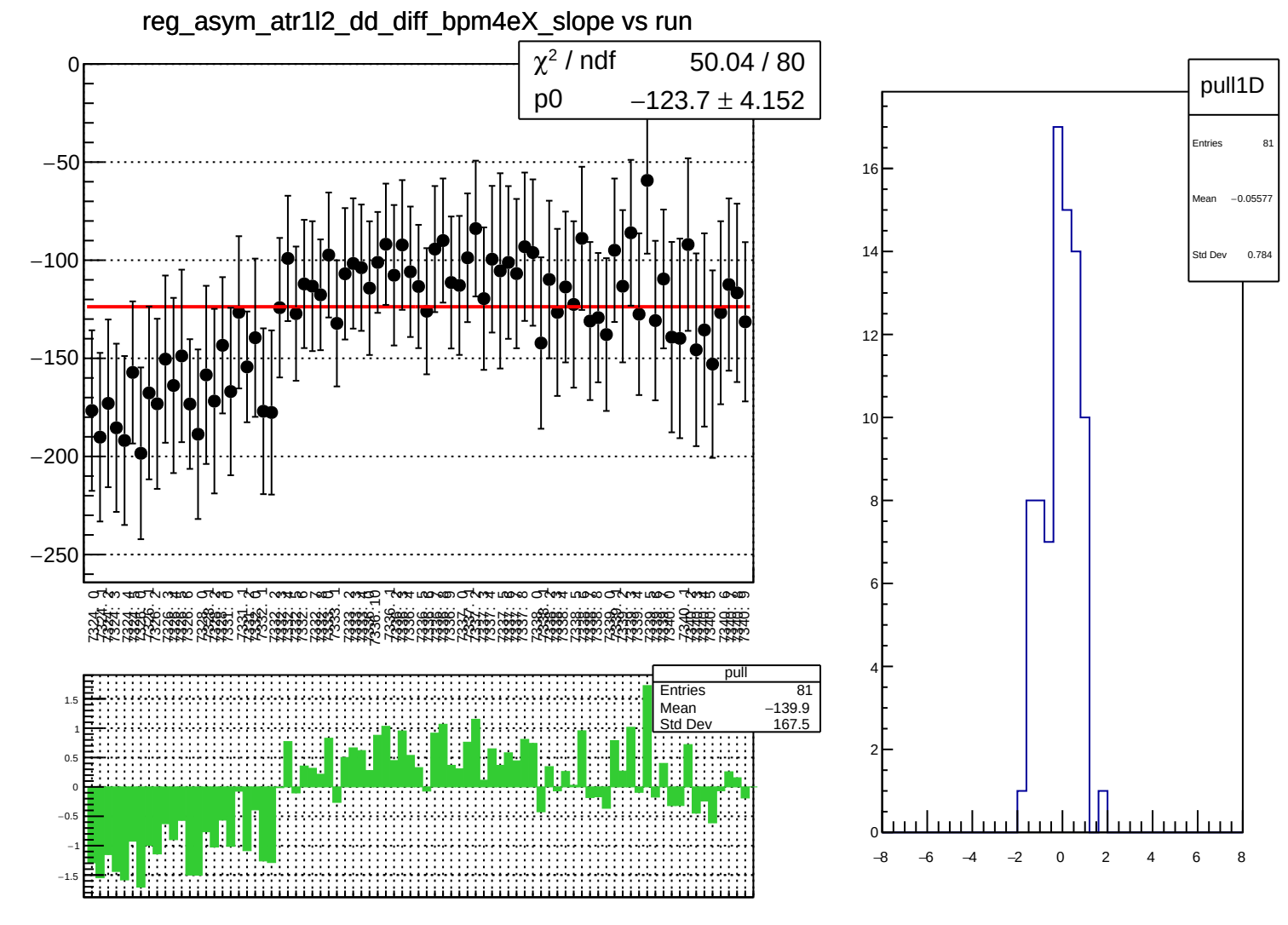

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 61.11 / 80
p0 −113.1 ± 0.2155
pull
Entries 81
Mean 182.3
Std Dev 142.1
pull1D
Entries 81
Mean −0.09371
Std Dev 0.8635

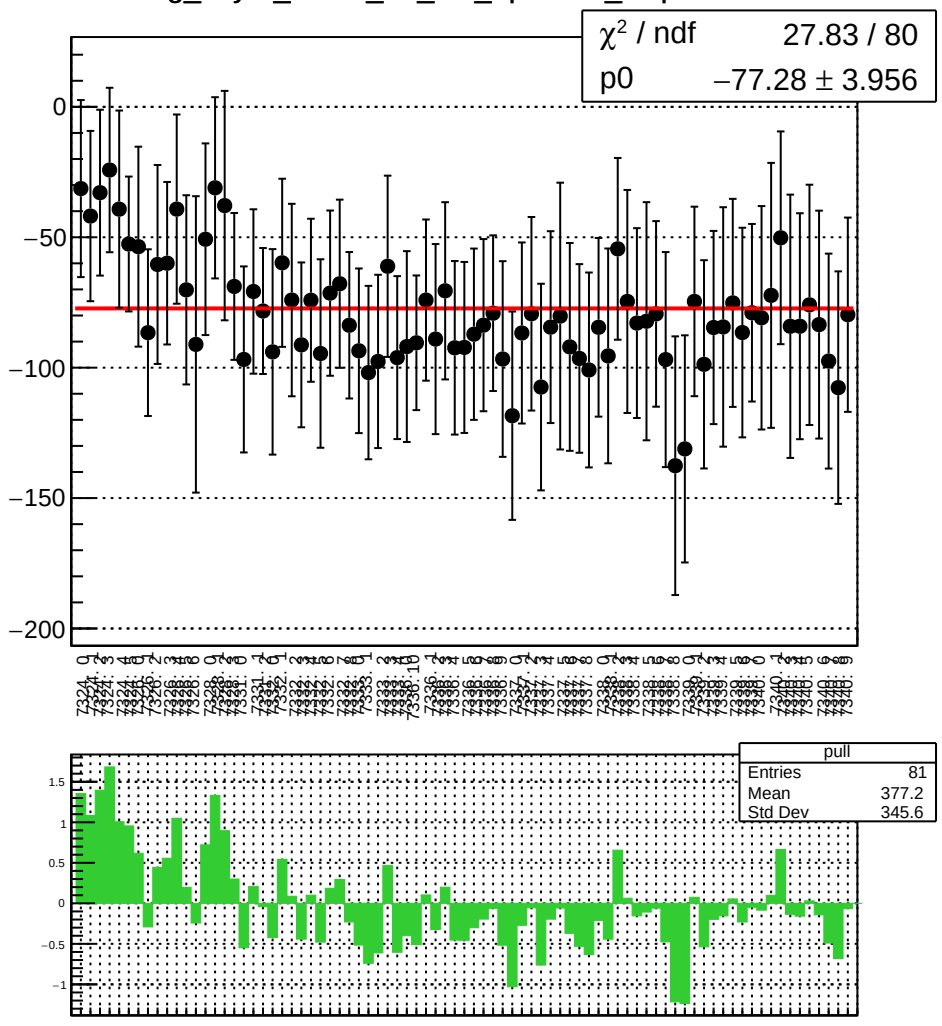

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 49.78 / 80
p0 120.8 ± 4.184
250
200
150
100
50
pull
Entries 81
Mean −137.3
Std Dev 164.4
1.5
1
0.5
0
−0.5
−1
−1.5

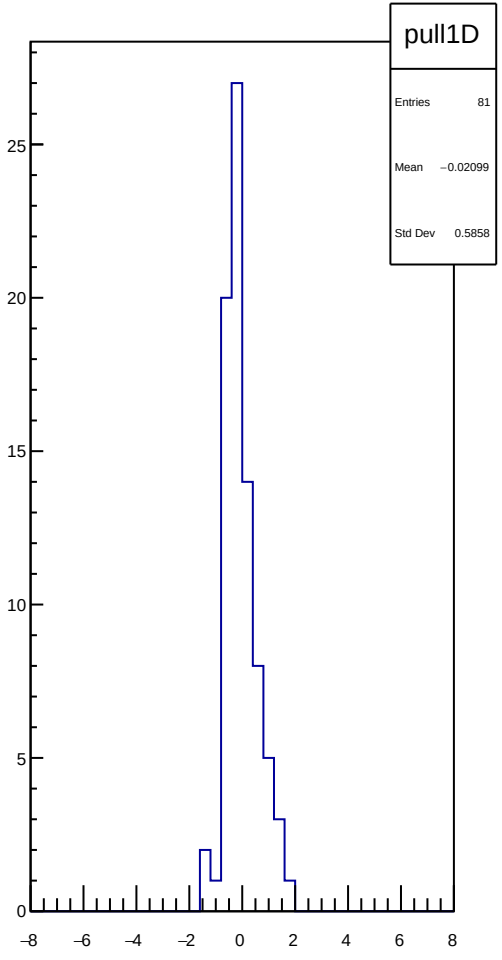

pull1D
Entries 81
Mean 0.05447
Std Dev 0.7821
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

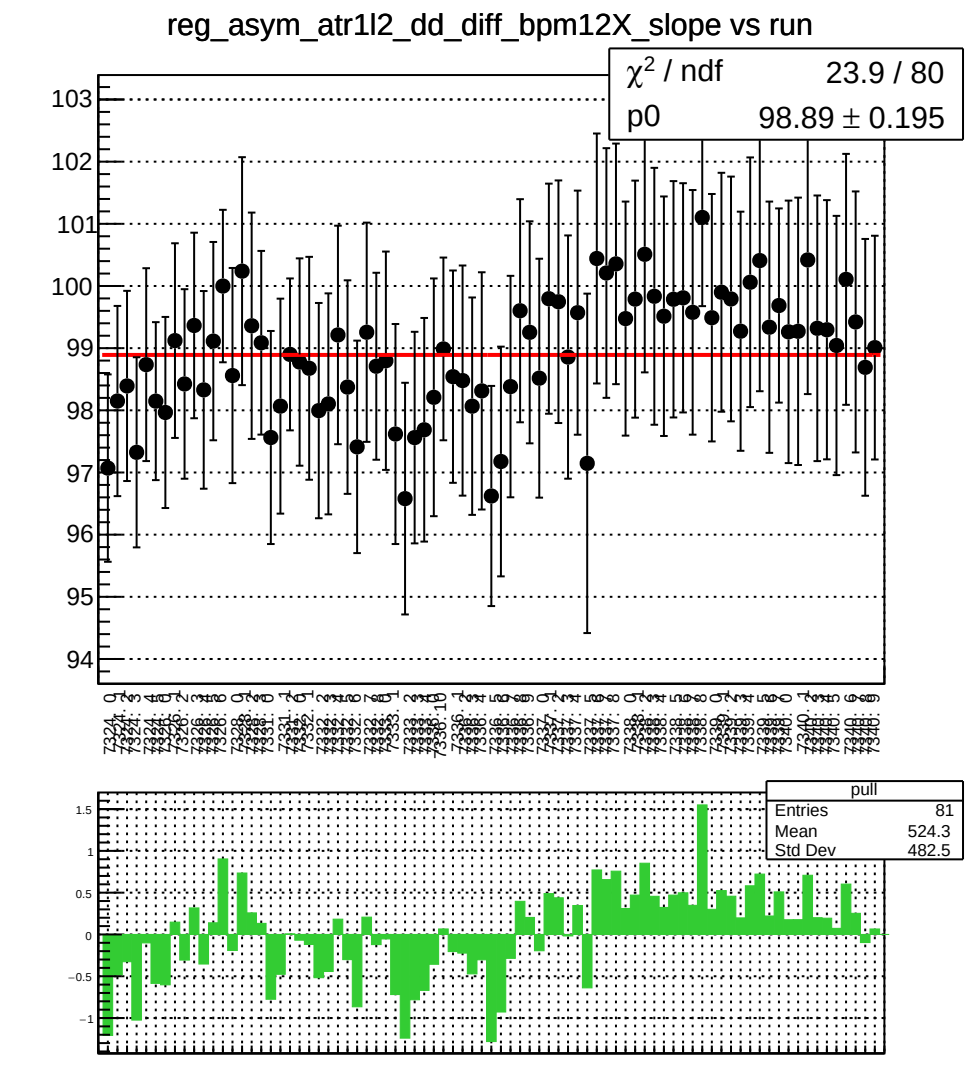

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 27.81 / 80
p0 15.8 ± 3.759
150
100
50
0
−50
pull
Entries 81
Mean 342.9
Std Dev 311.1
1.5
1
0.5
0
−0.5
−1
−1.5

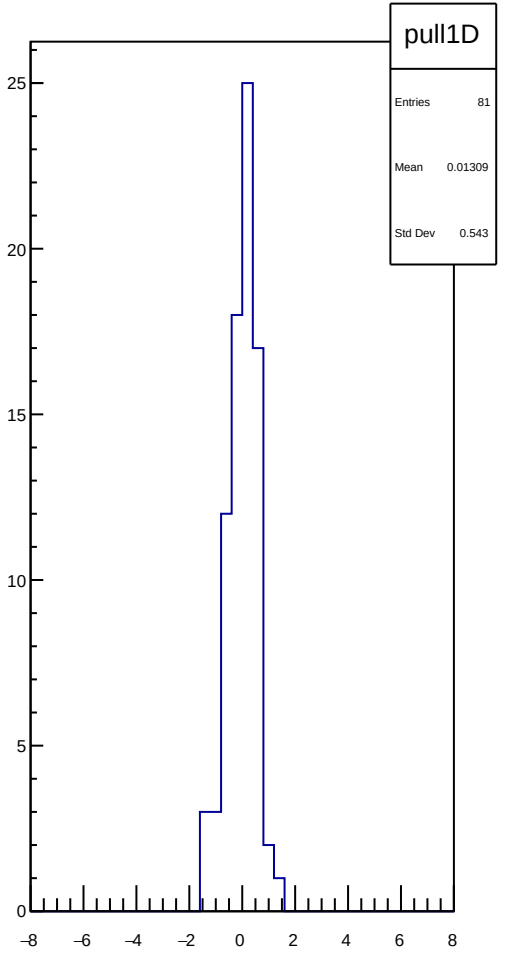

pull1D
Entries 81
Mean 0.02241
Std Dev 0.5855
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

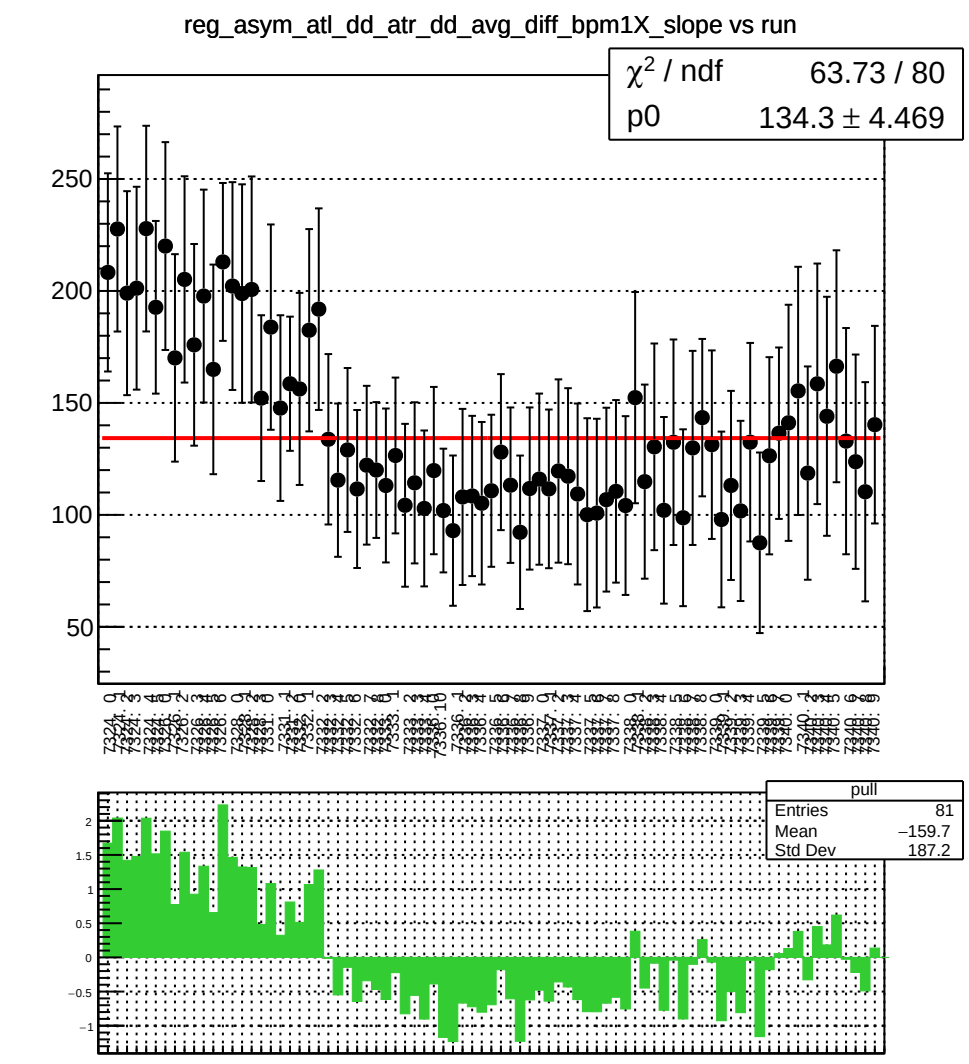

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 50.04 / 80
p0 −123.7 ± 4.152
pull
Entries 81
Mean −139.9
Std Dev 167.5
pull1D
Entries 81
Mean −0.05577
Std Dev 0.784

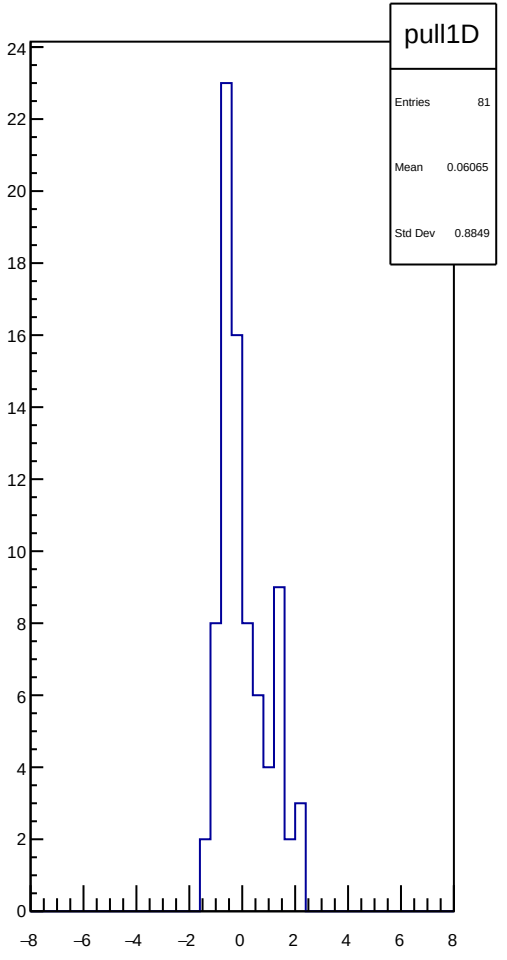

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 27.83 / 80
p0 −77.28 ± 3.956
pull
Entries 81
Mean 377.2
Std Dev 345.6

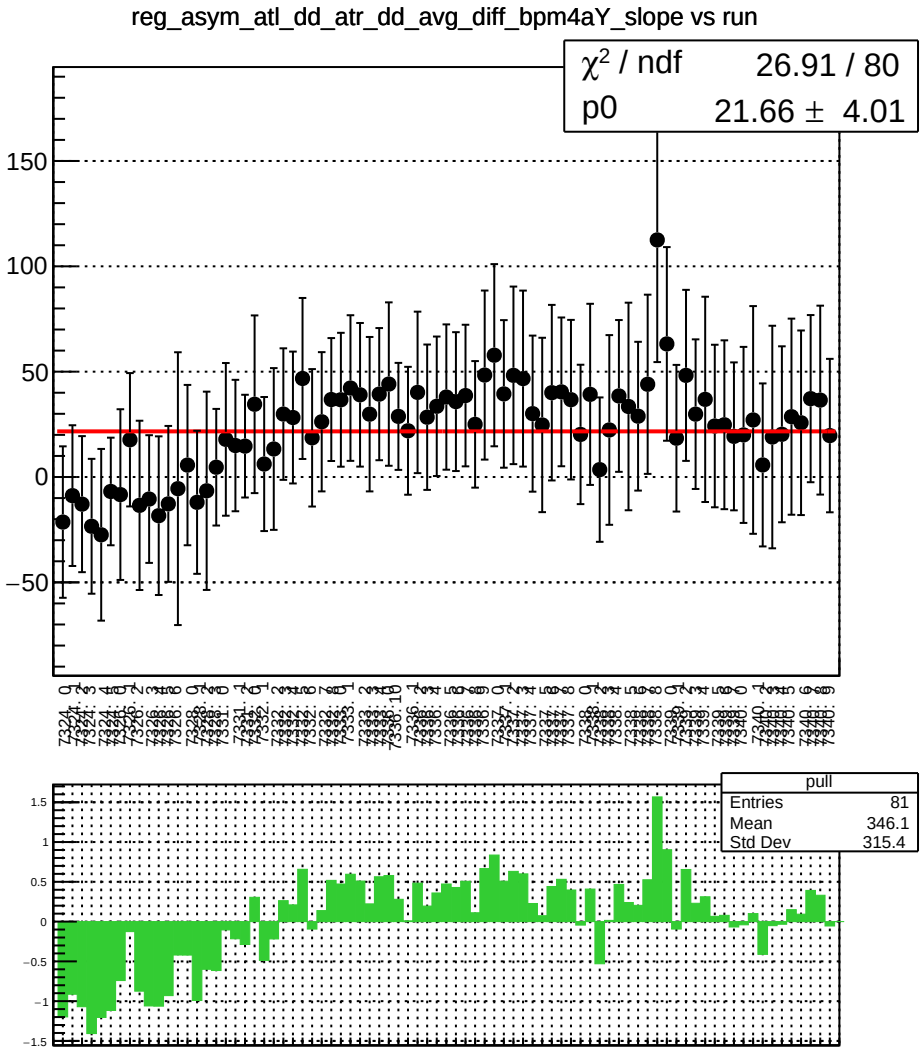

pull1D
Entries 81
Mean −0.02099
Std Dev 0.5858

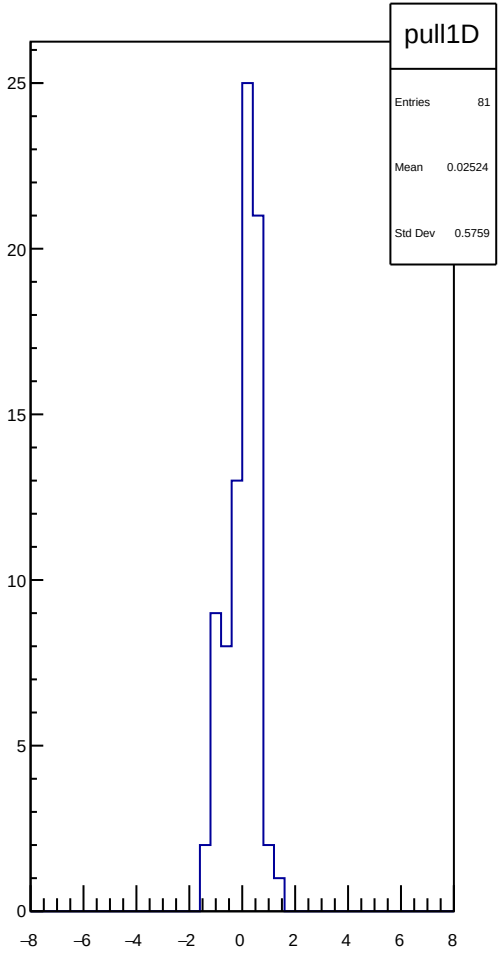

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.9 / 80
p0 98.89 ± 0.195
pull
Entries 81
Mean 524.3
Std Dev 482.5

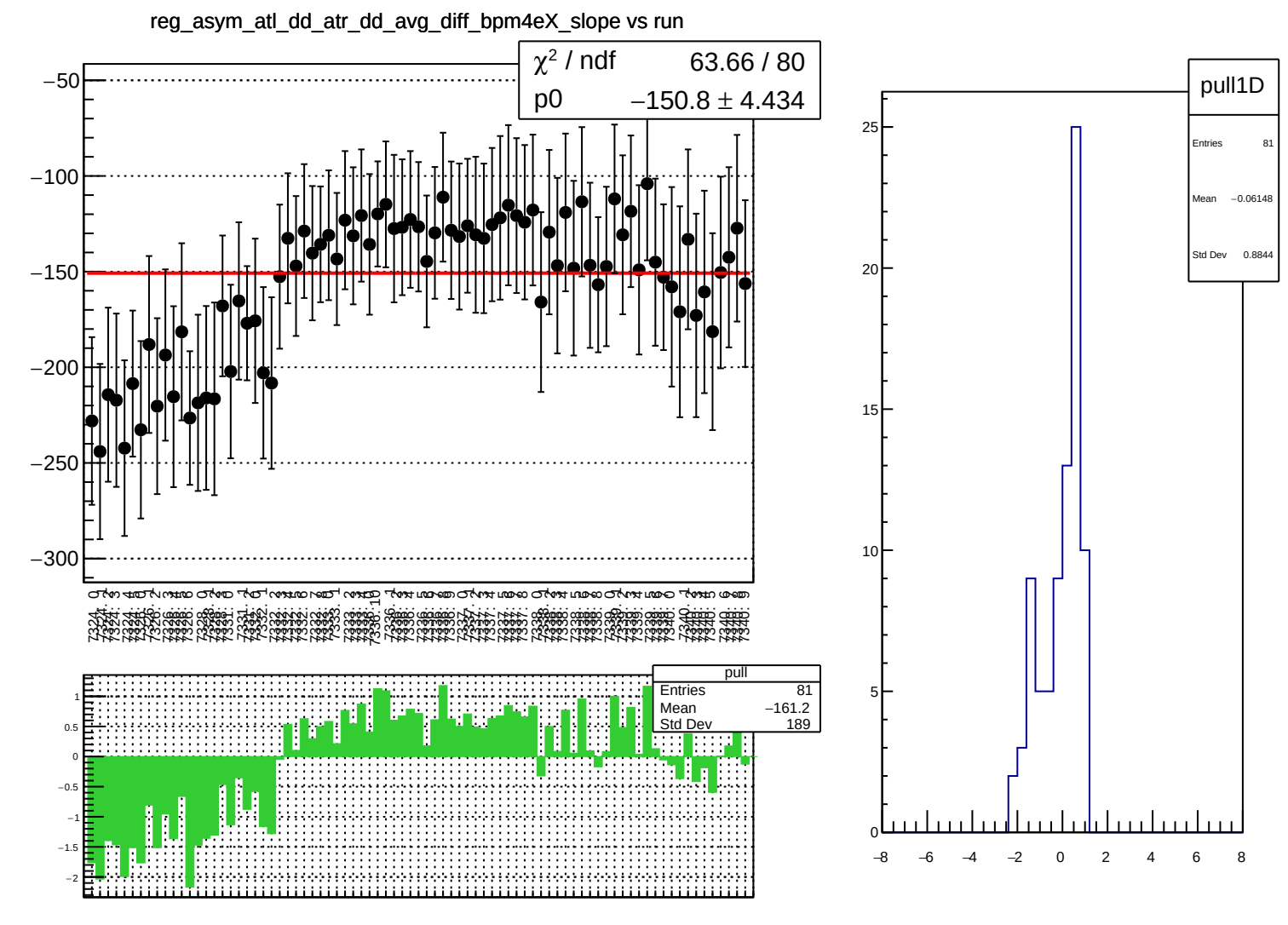

pull1D
Entries 81
Mean 0.01309
Std Dev 0.543

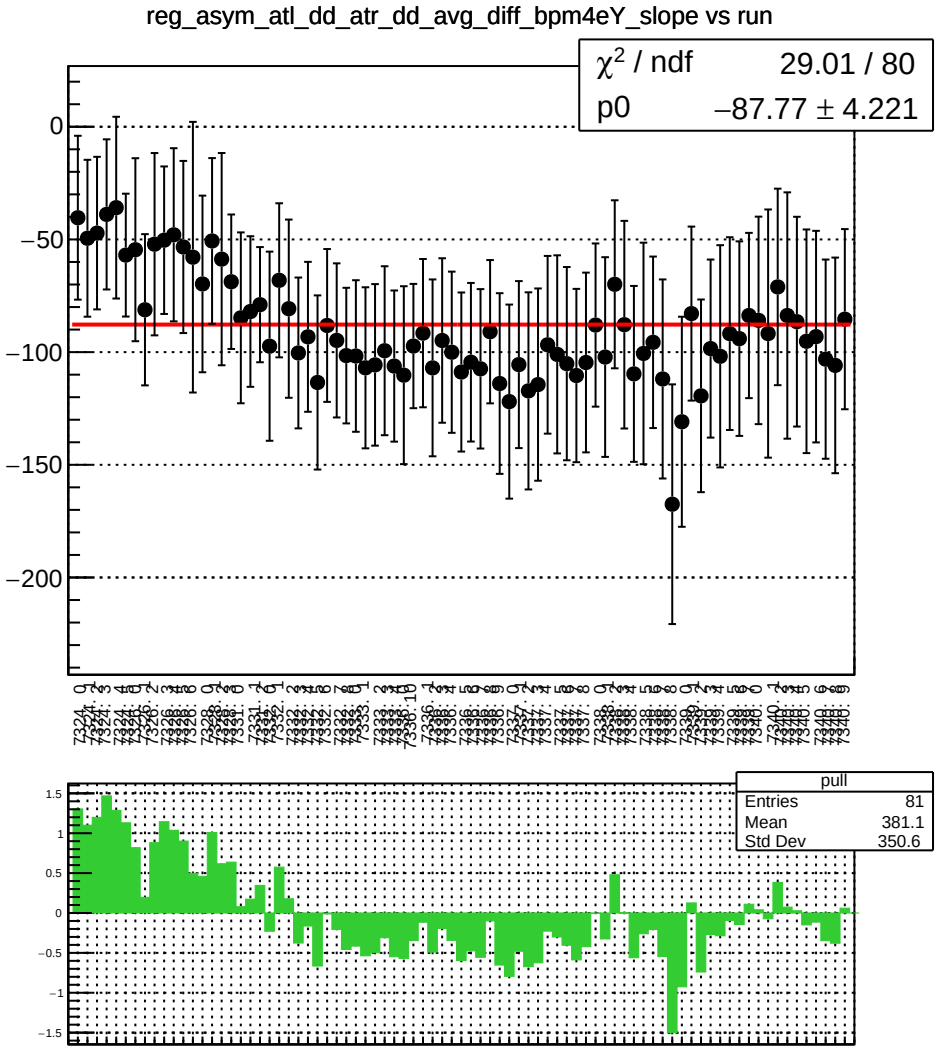

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 63.73 / 80
p0 134.3 ± 4.469
pull
Entries 81
Mean −159.7
Std Dev 187.2

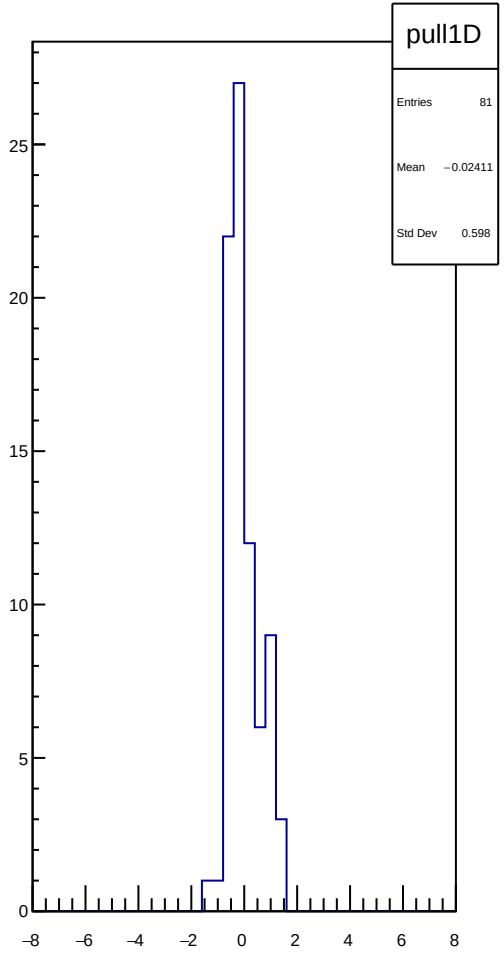

pull1D
Entries 81
Mean 0.06065
Std Dev 0.8849

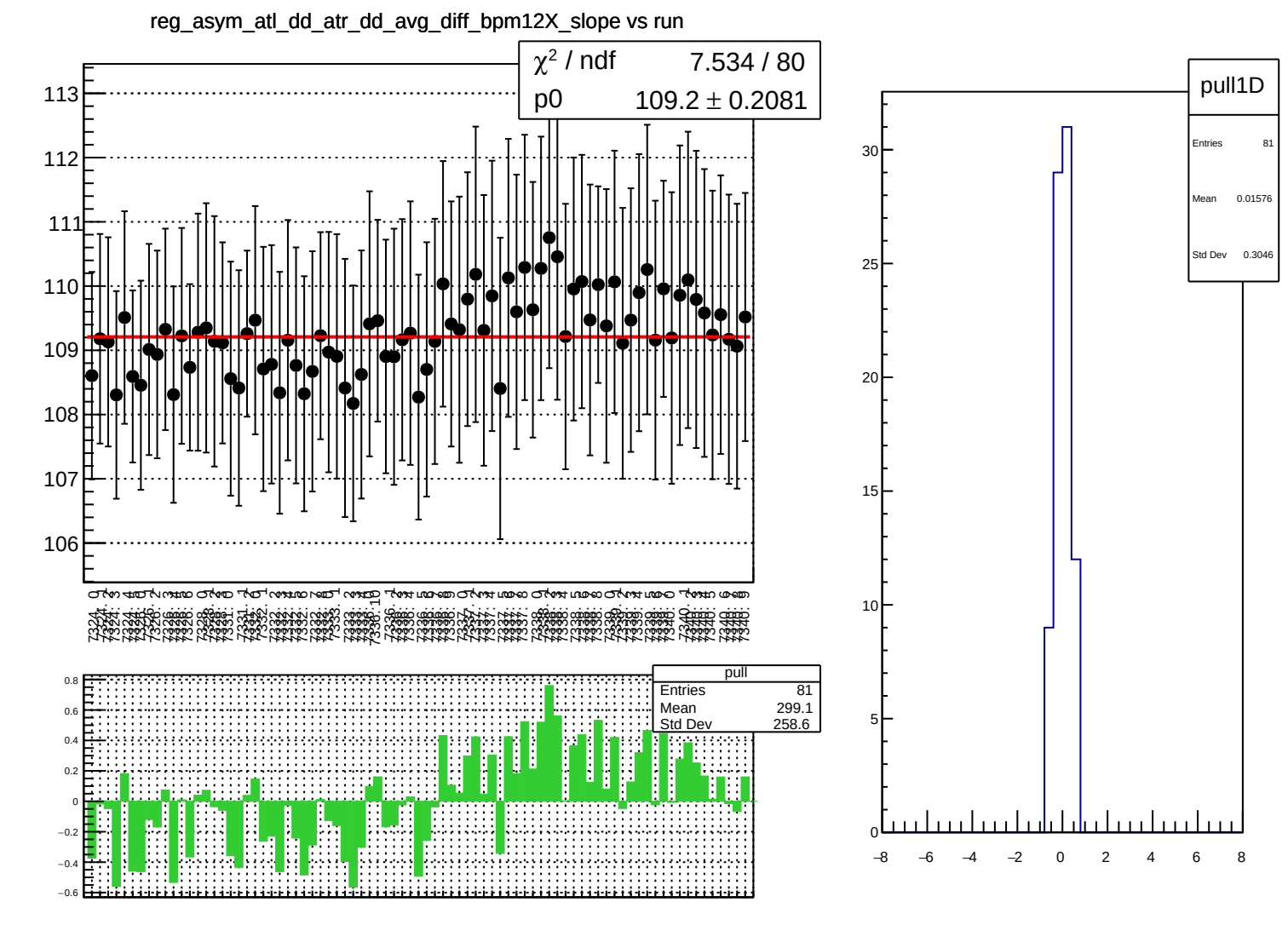

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.91 / 80
p0 21.66 ± 4.01
150
100
50
0
−50
pull
Entries 81
Mean 346.1
Std Dev 315.4
1.5
1
0.5
0
−0.5
−1
−1.5

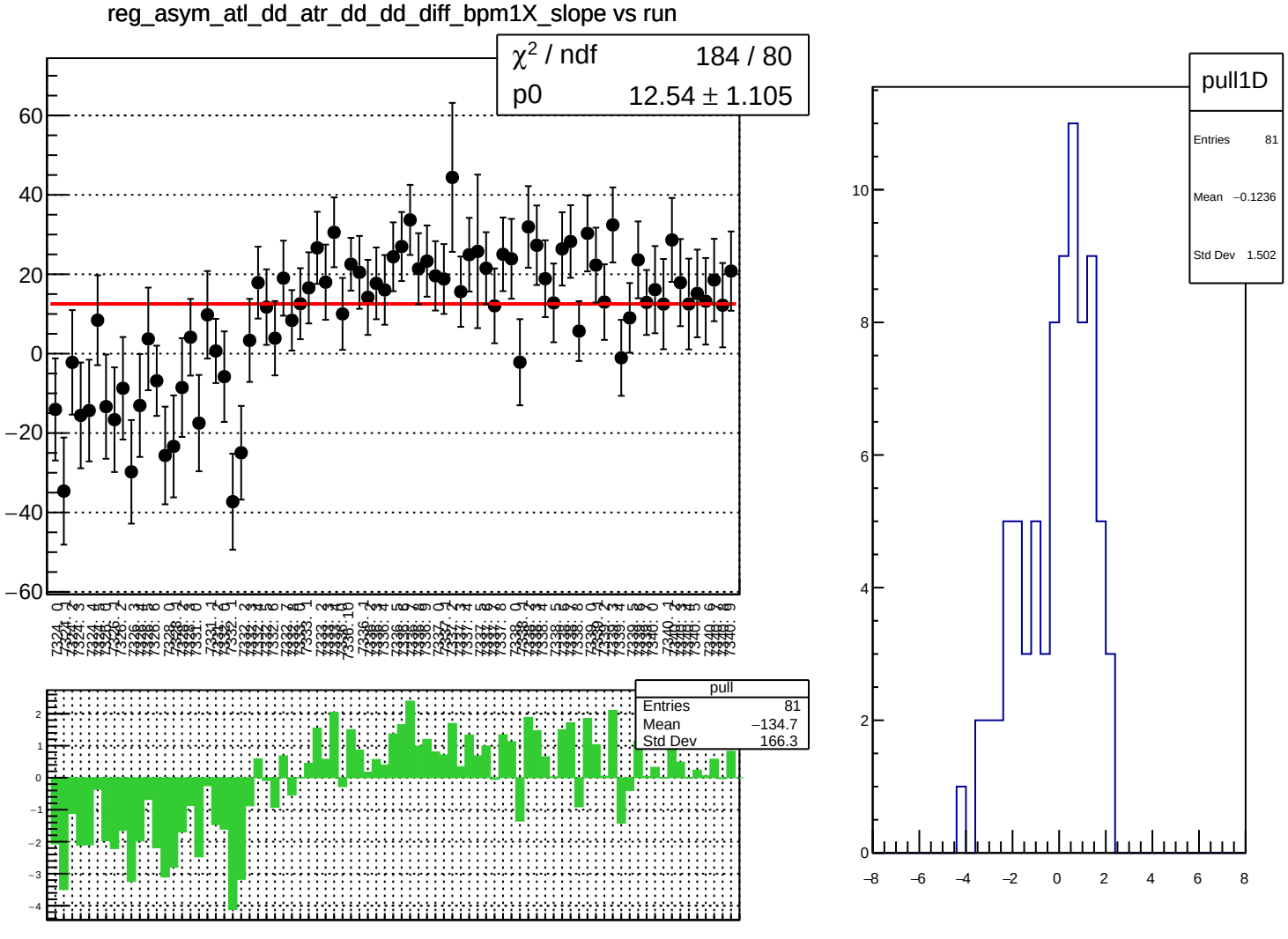

pull1D
Entries 81
Mean 0.02524
Std Dev 0.5759
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

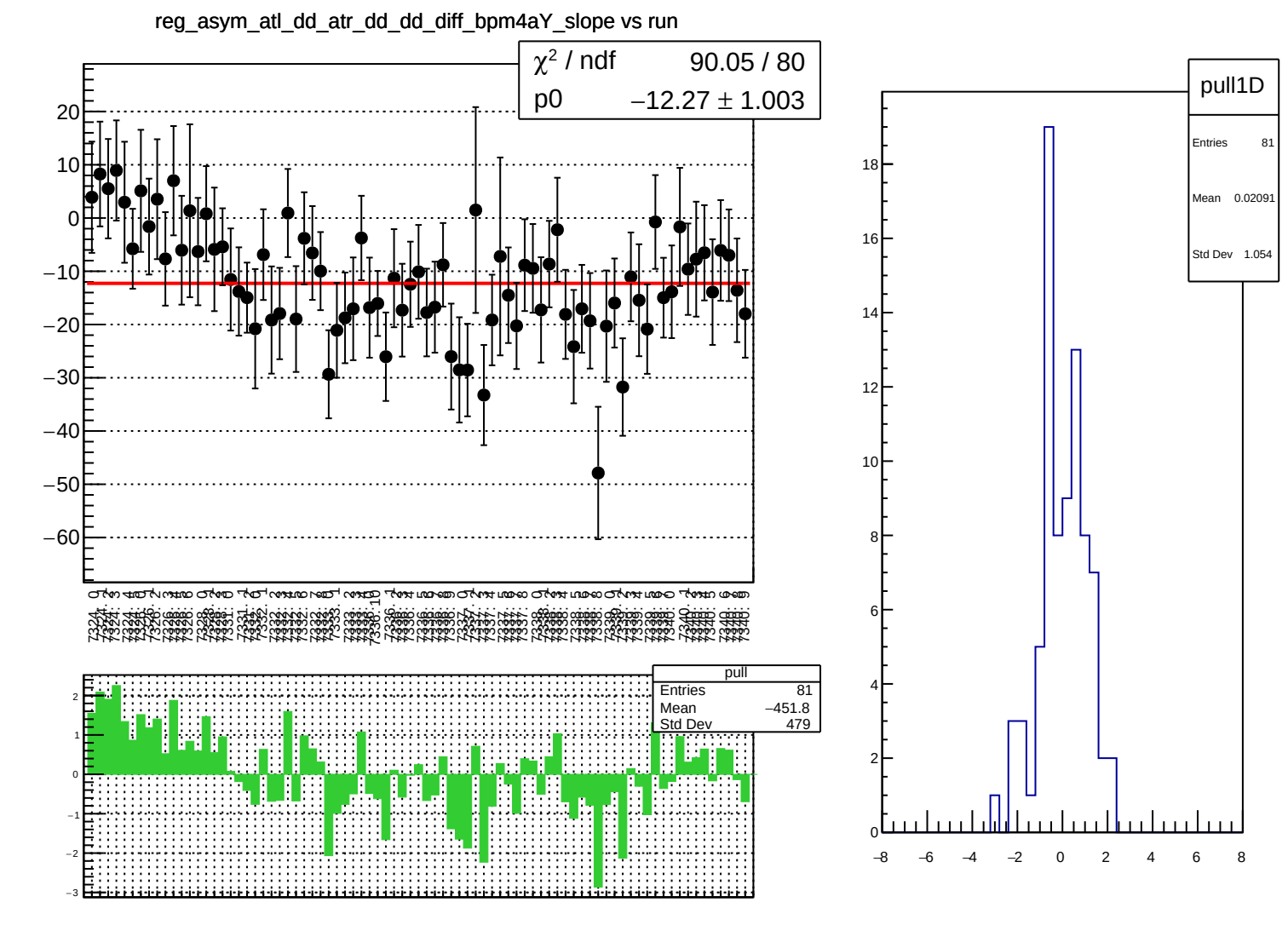

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 63.66 / 80
p0 −150.8 ± 4.434
pull
Entries 81
Mean −161.2
Std Dev 189
pull1D
Entries 81
Mean −0.06148
Std Dev 0.8844

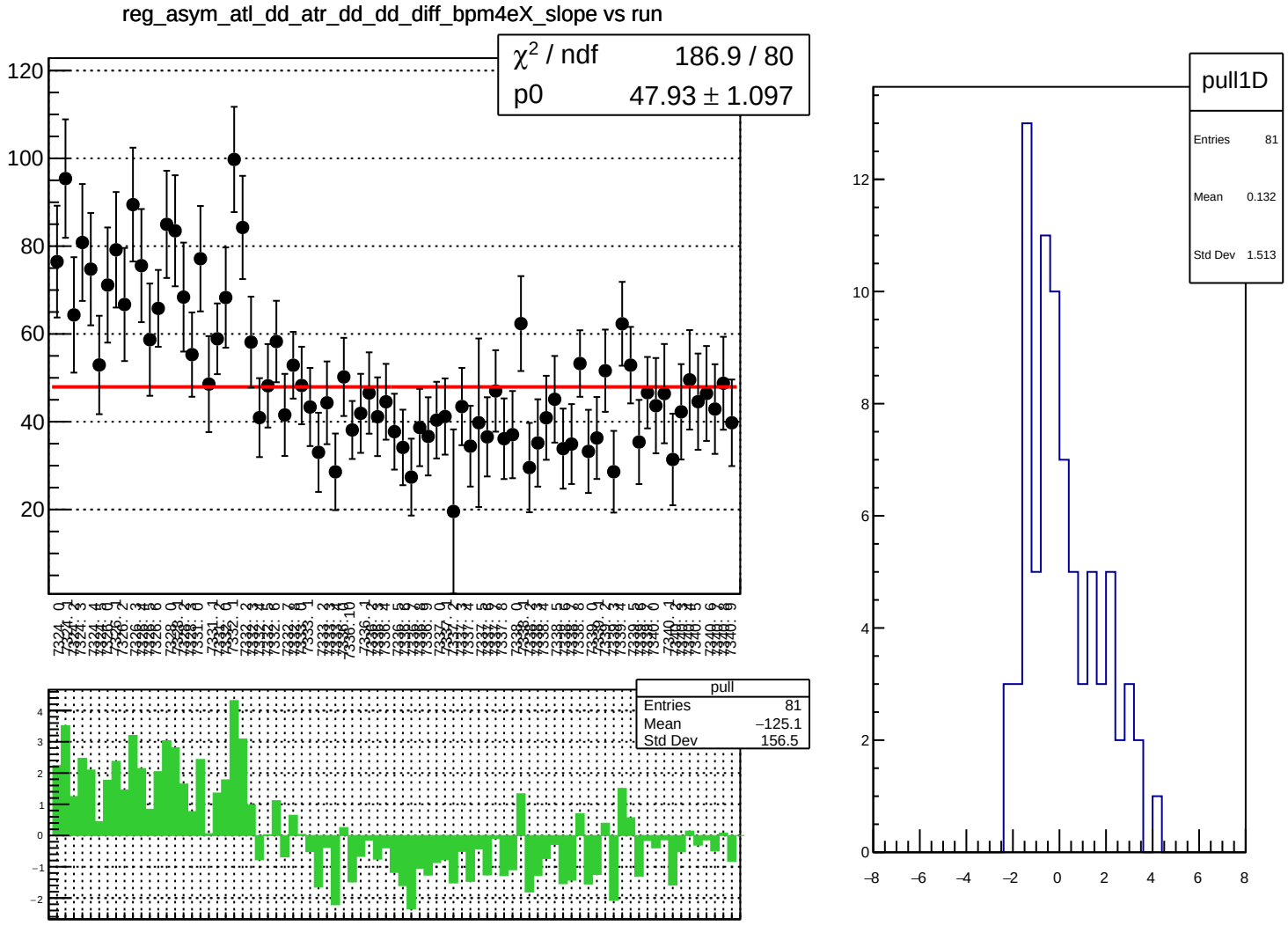

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.01 / 80
p0 −87.77 ± 4.221
0
−50
−100
−150
−200
pull
Entries 81
Mean 381.1
Std Dev 350.6
1.5
1
0.5
0
−0.5
−1
−1.5

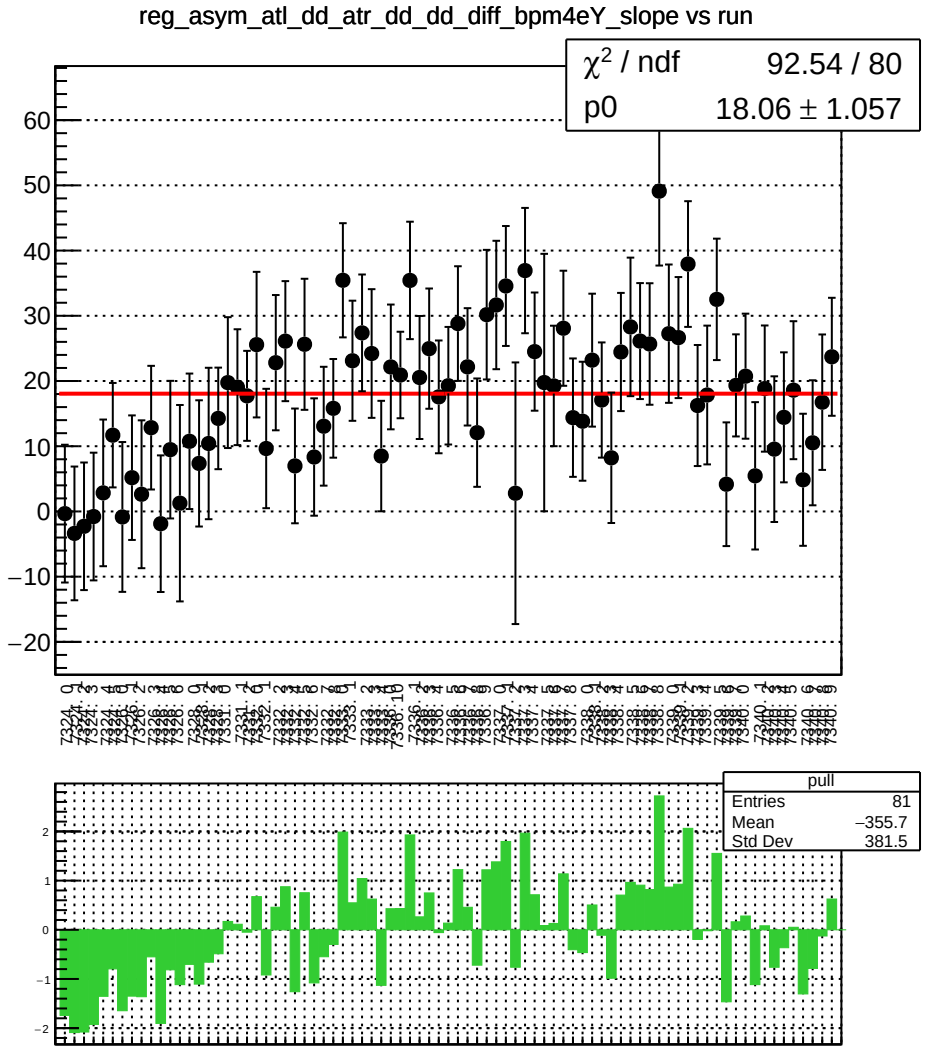

pull1D
Entries 81
Mean −0.02411
Std Dev 0.598
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

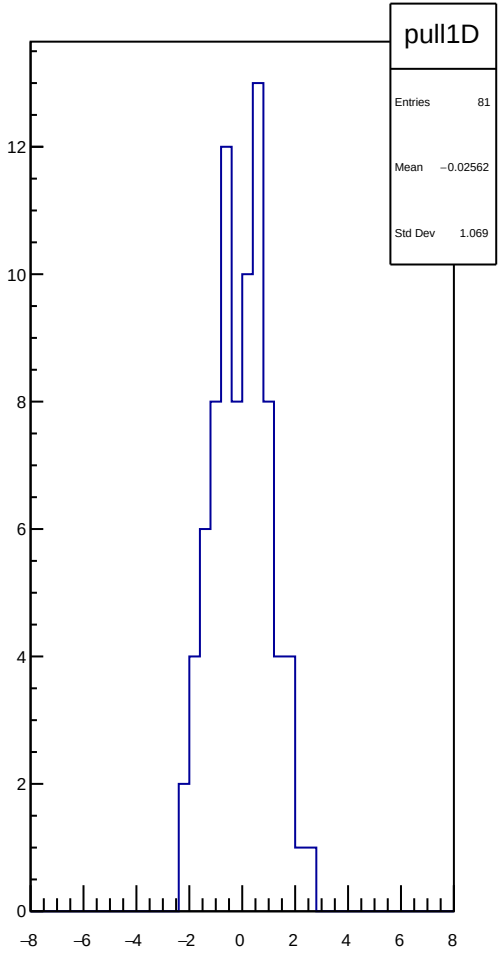

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 7.534 / 80
p0 109.2 ± 0.2081
pull
Entries 81
Mean 299.1
Std Dev 258.6
pull1D
Entries 81
Mean 0.01576
Std Dev 0.3046

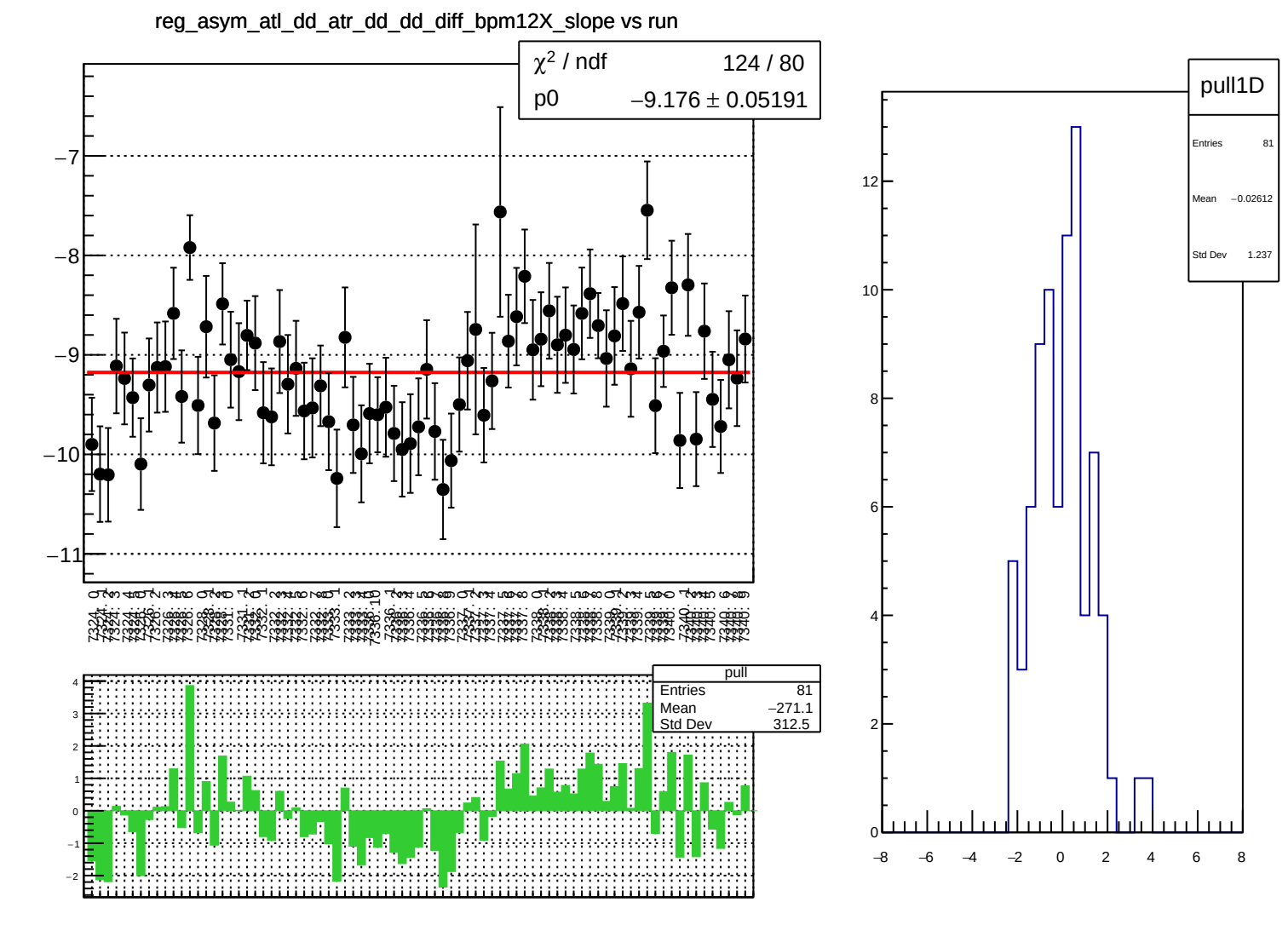

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 184 / 80
p0 12.54 ± 1.105
pull
Entries 81
Mean −134.7
Std Dev 166.3
pull1D
Entries 81
Mean −0.1236
Std Dev 1.502

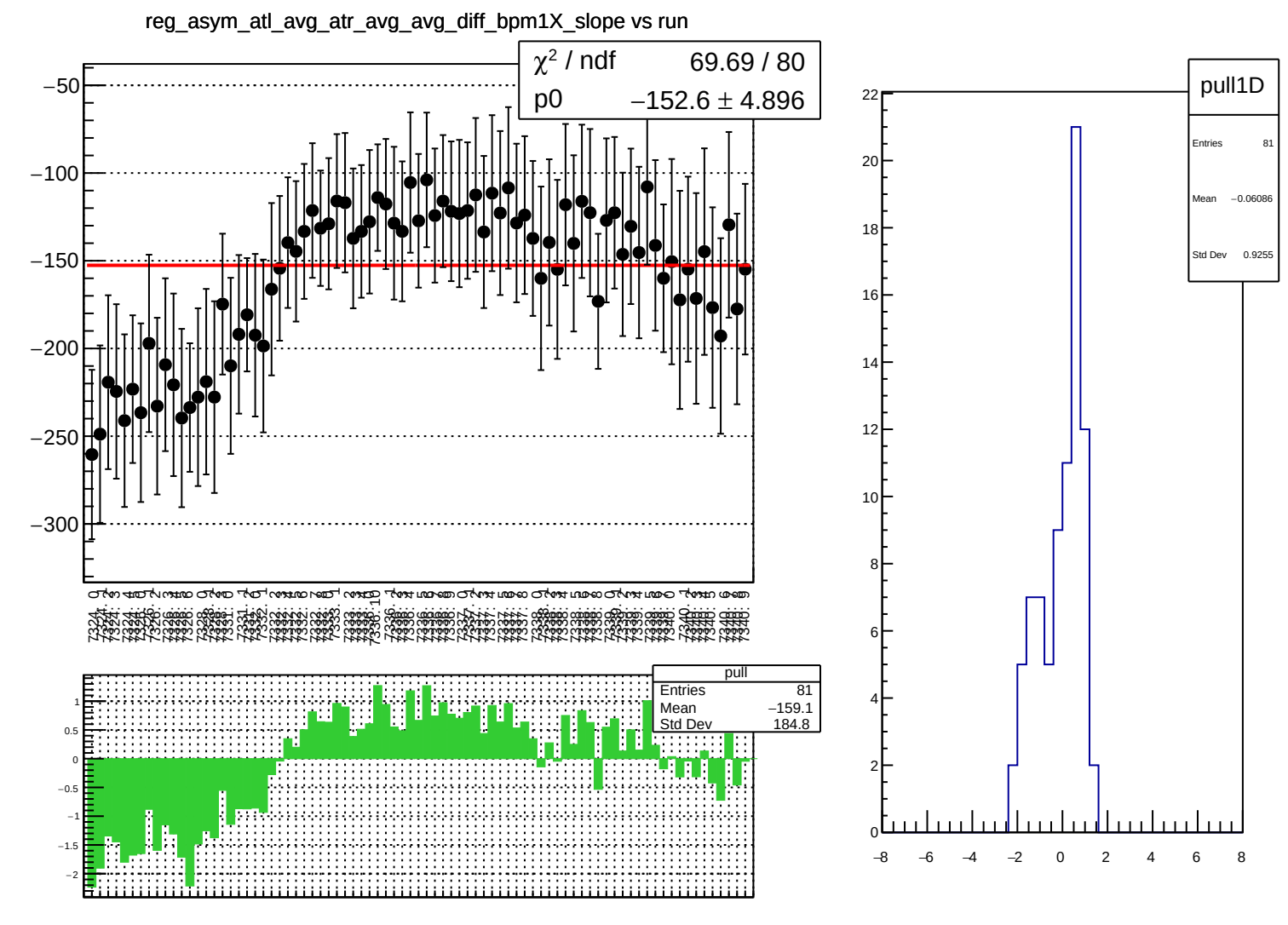

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 90.05 / 80
p0 −12.27 ± 1.003
pull
Entries 81
Mean −451.8
Std Dev 479
pull1D
Entries 81
Mean 0.02091
Std Dev 1.054

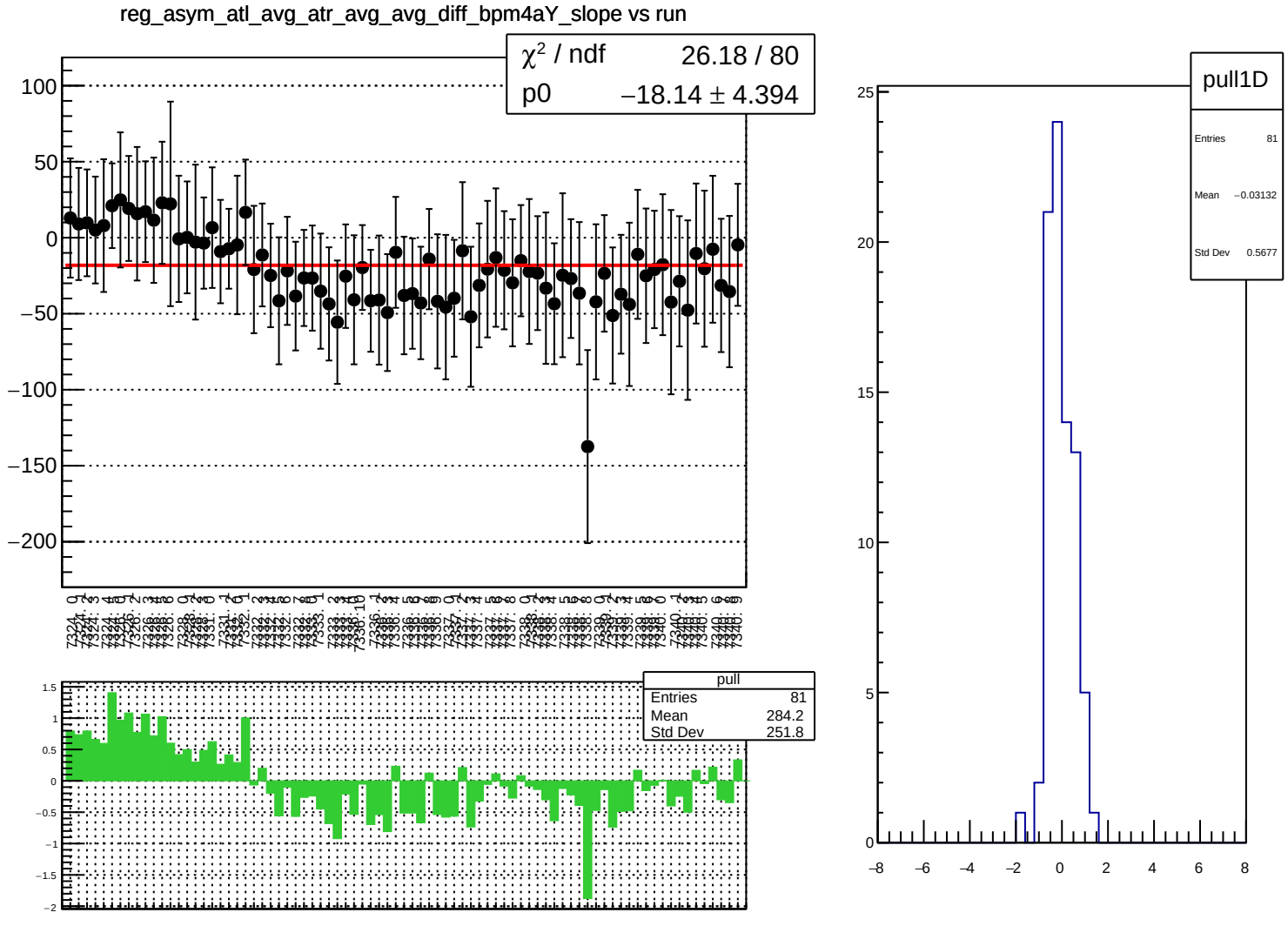

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 186.9 / 80
p0 47.93 ± 1.097
pull
Entries 81
Mean −125.1
Std Dev 156.5
pull1D
Entries 81
Mean 0.132
Std Dev 1.513

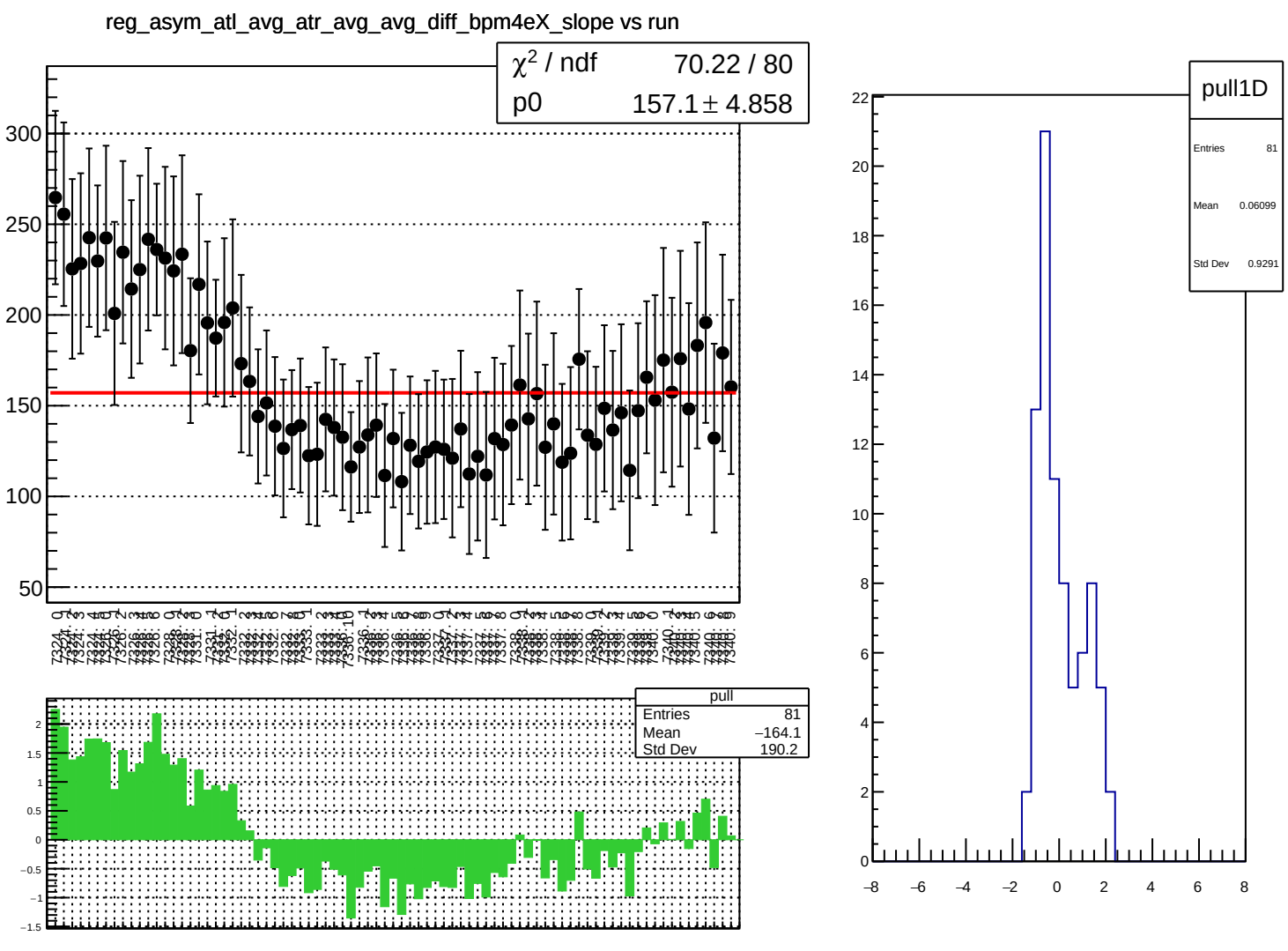

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 92.54 / 80
p0 18.06 ± 1.057
pull
Entries 81
Mean −355.7
Std Dev 381.5

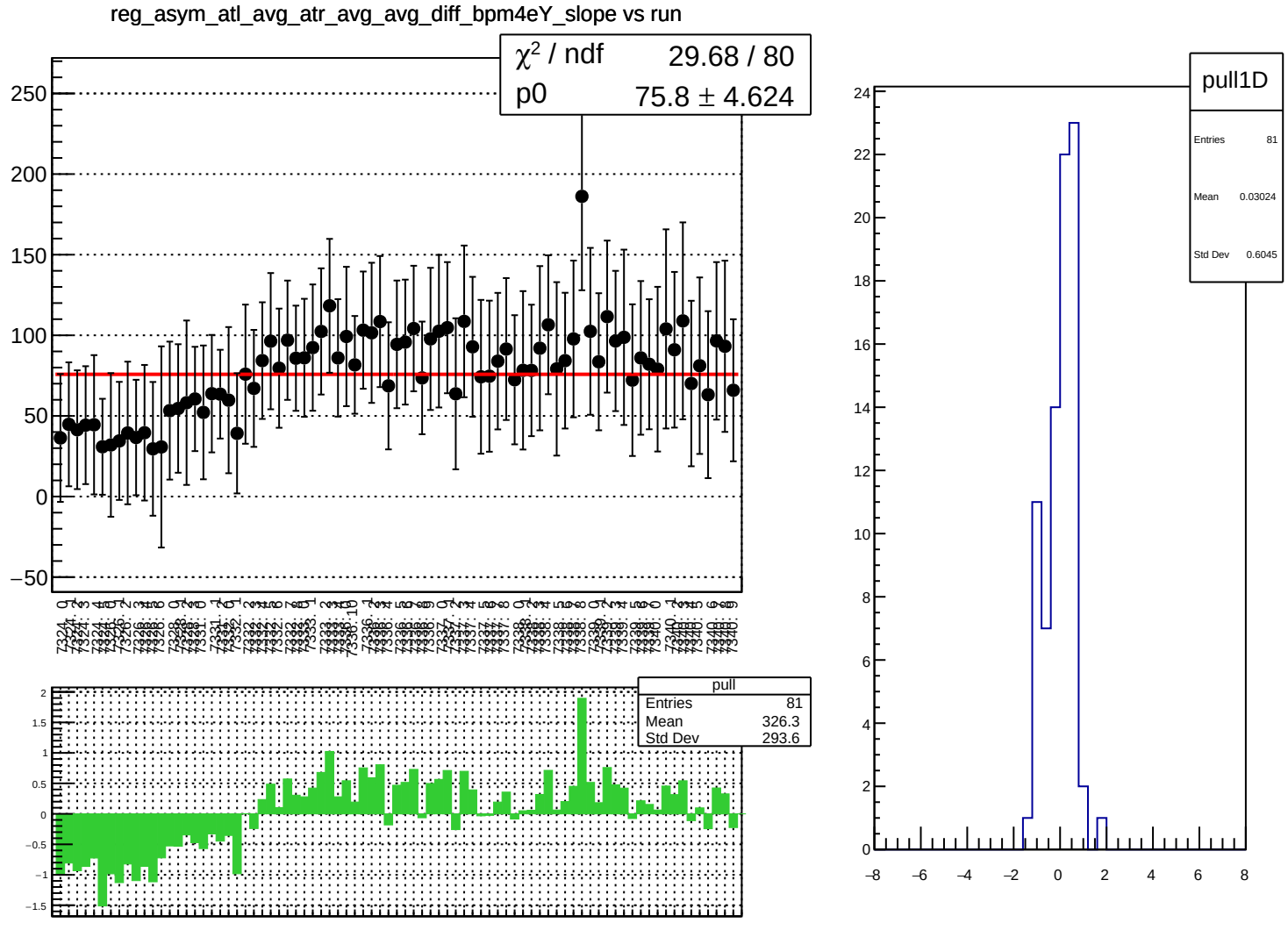

pull1D
Entries 81
Mean −0.02562
Std Dev 1.069

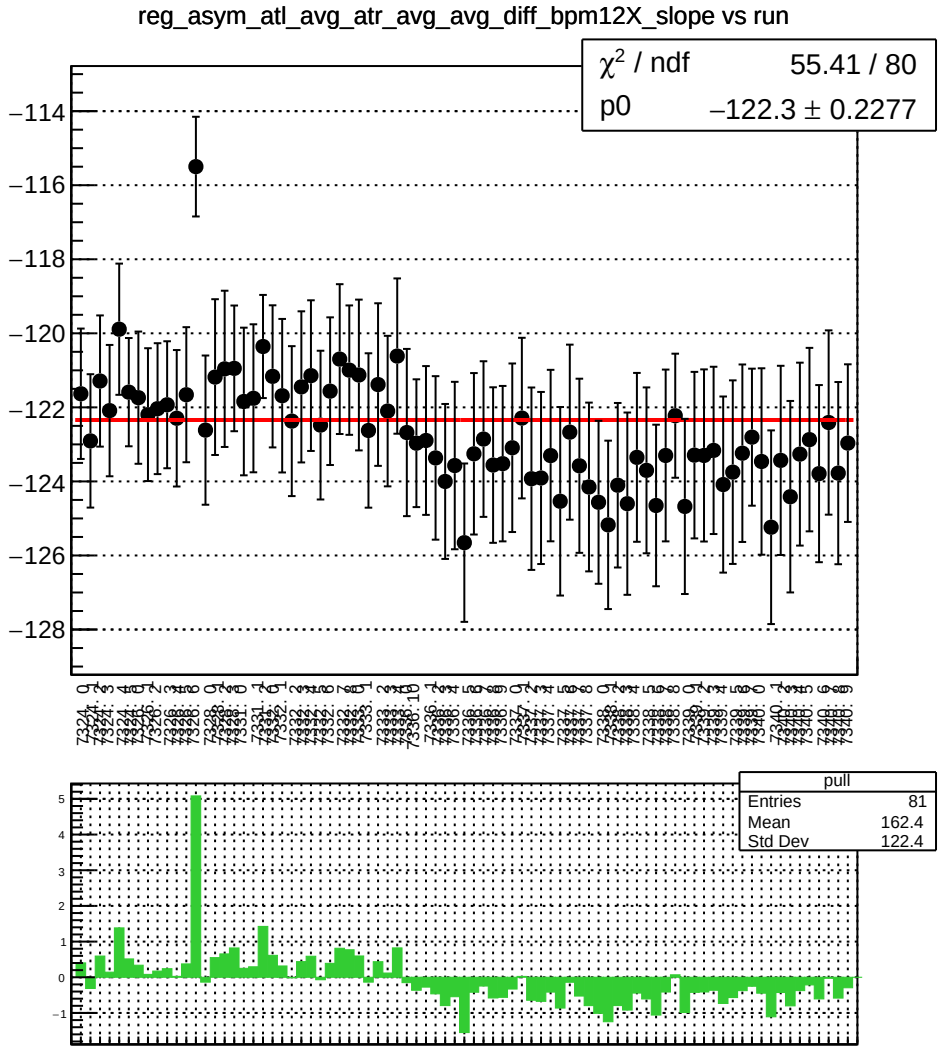

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 124 / 80
p0 −9.176 ± 0.05191
pull
Entries 81
Mean −271.1
Std Dev 312.5
pull1D
Entries 81
Mean −0.02612
Std Dev 1.237

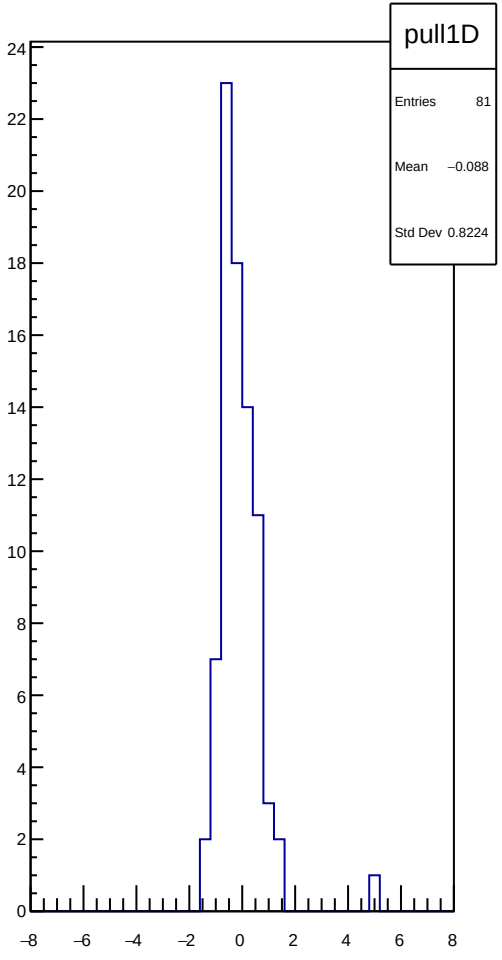

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 69.69 / 80
p0 −152.6 ± 4.896
pull
Entries 81
Mean −159.1
Std Dev 184.8
pull1D
Entries 81
Mean −0.06086
Std Dev 0.9255

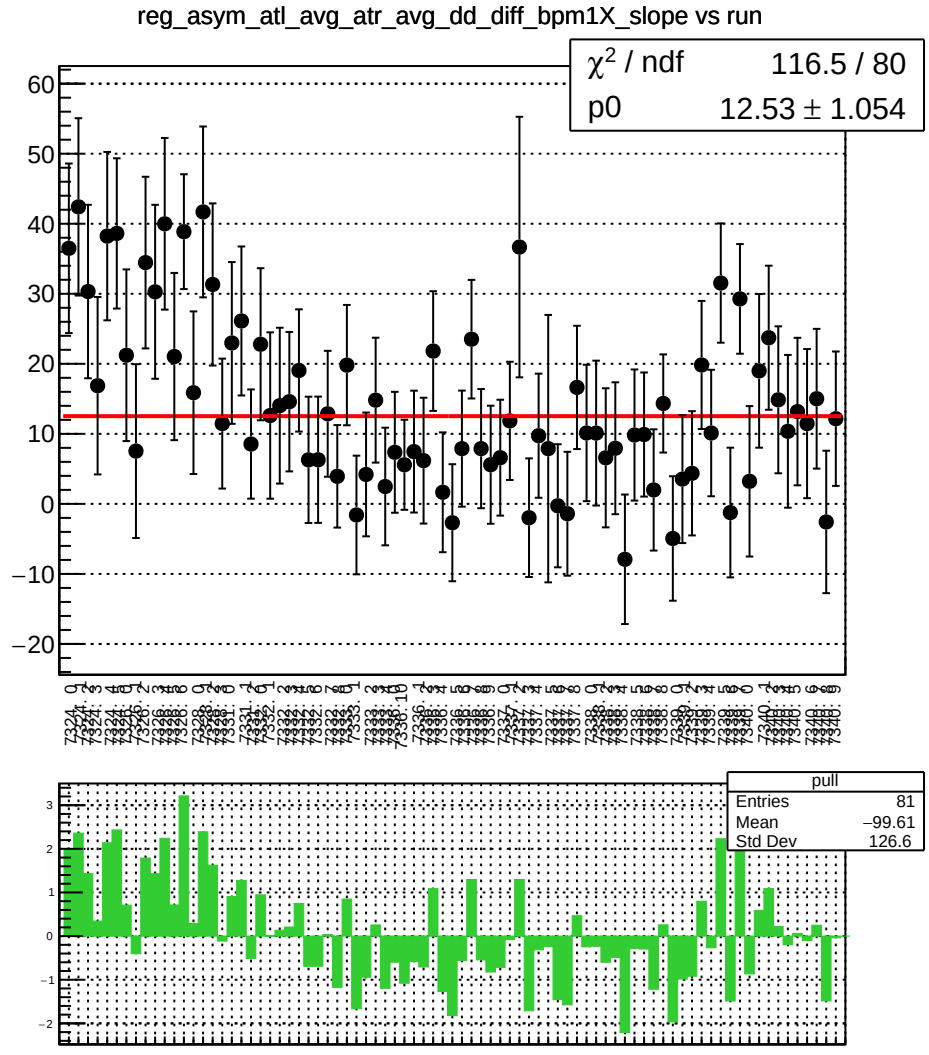

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.18 / 80
p0 −18.14 ± 4.394
pull
Entries 81
Mean 284.2
Std Dev 251.8
pull1D
Entries 81
Mean −0.03132
Std Dev 0.5677

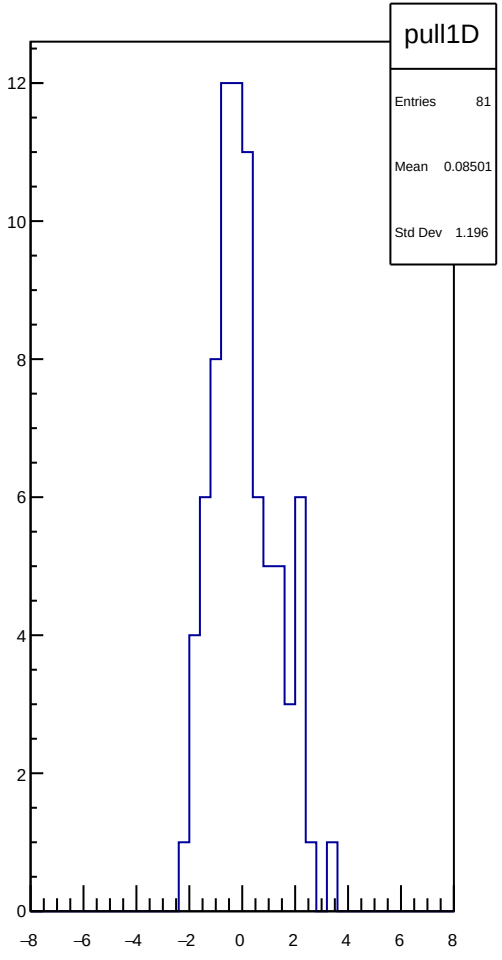

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 70.22 / 80
p0 157.1 ± 4.858
pull
Entries 81
Mean −164.1
Std Dev 190.2
pull1D
Entries 81
Mean 0.06099
Std Dev 0.9291

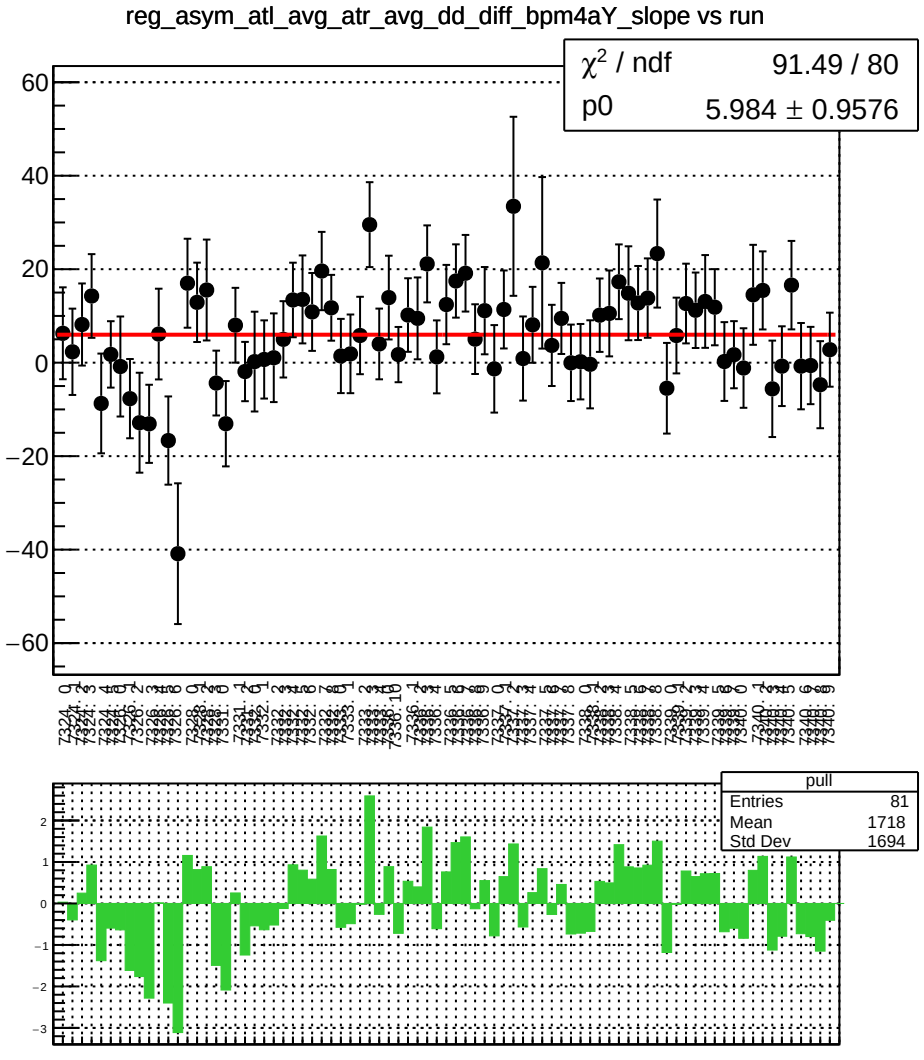

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 29.68 / 80
p0 75.8 ± 4.624
pull
Entries 81
Mean 326.3
Std Dev 293.6
pull1D
Entries 81
Mean 0.03024
Std Dev 0.6045

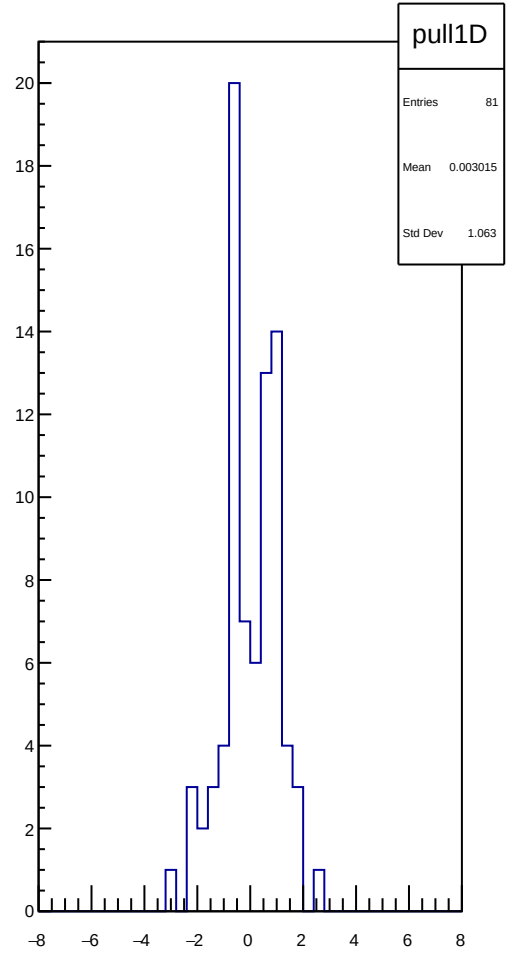

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 55.41 / 80
p0 −122.3 ± 0.2277
pull
Entries 81
Mean 162.4
Std Dev 122.4

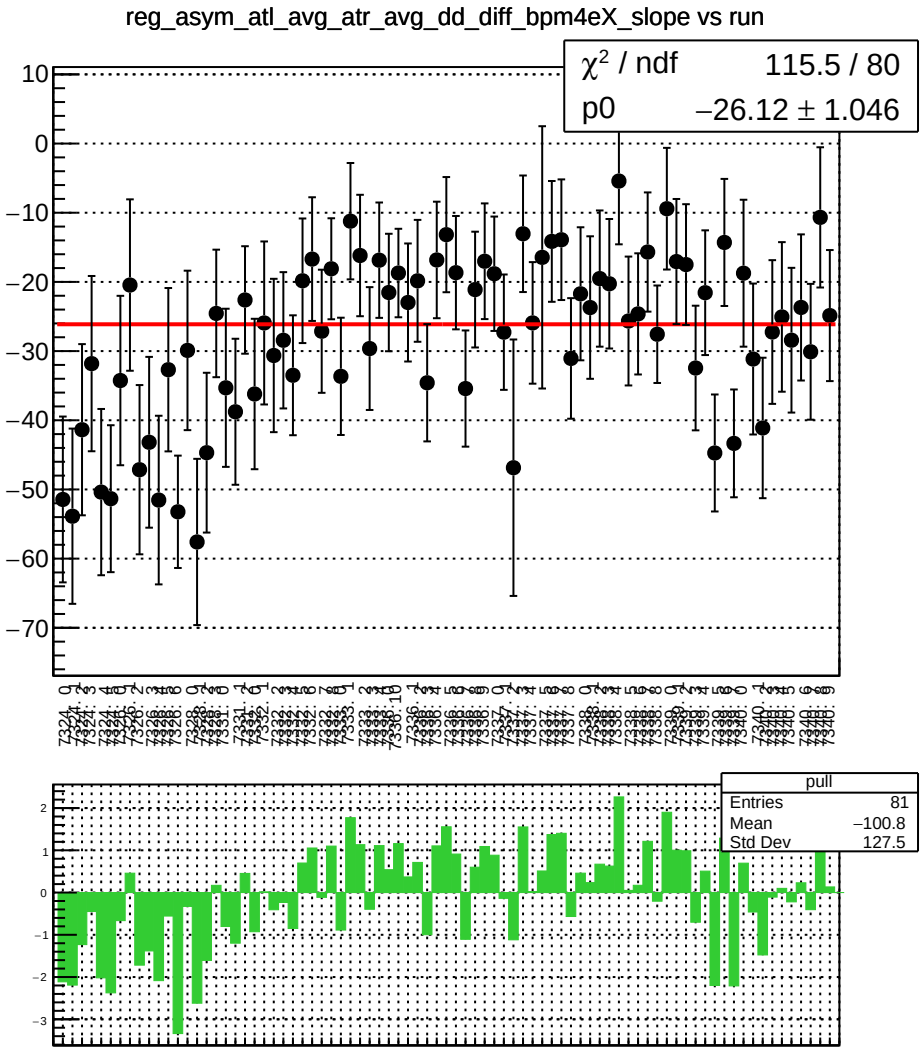

pull1D
Entries 81
Mean −0.088
Std Dev 0.8224

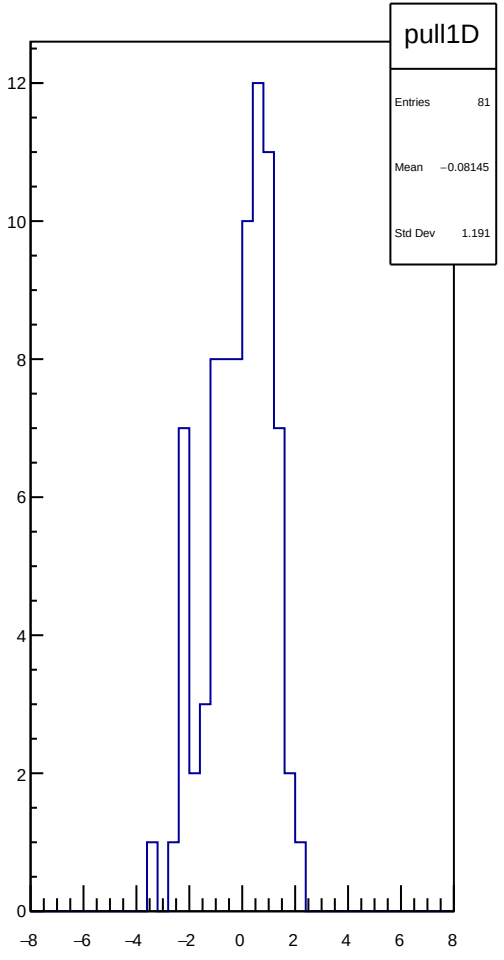

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 116.5 / 80
p0 12.53 ± 1.054
pull
Entries 81
Mean −99.61
Std Dev 126.6

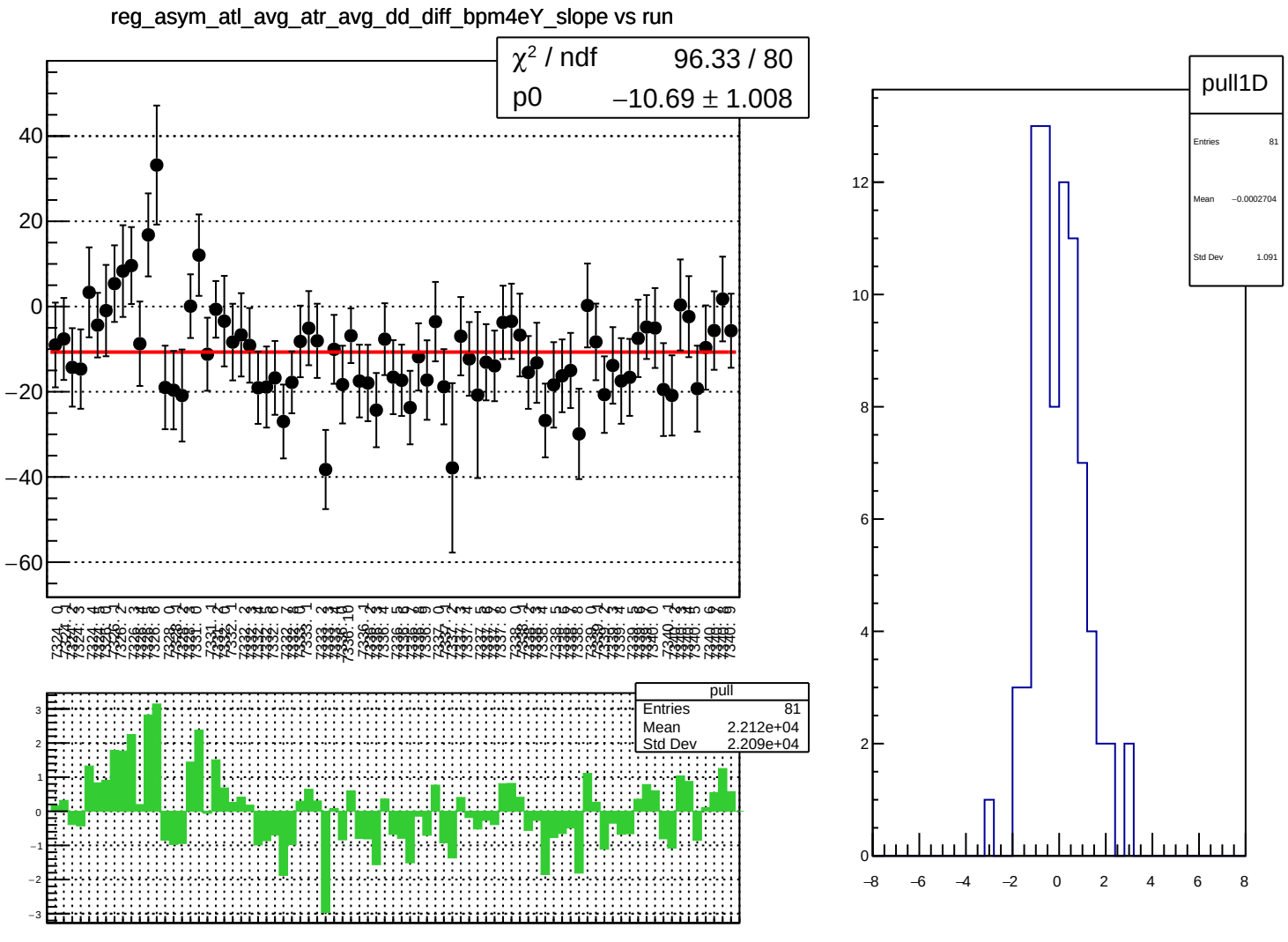

pull1D
Entries 81
Mean 0.08501
Std Dev 1.196

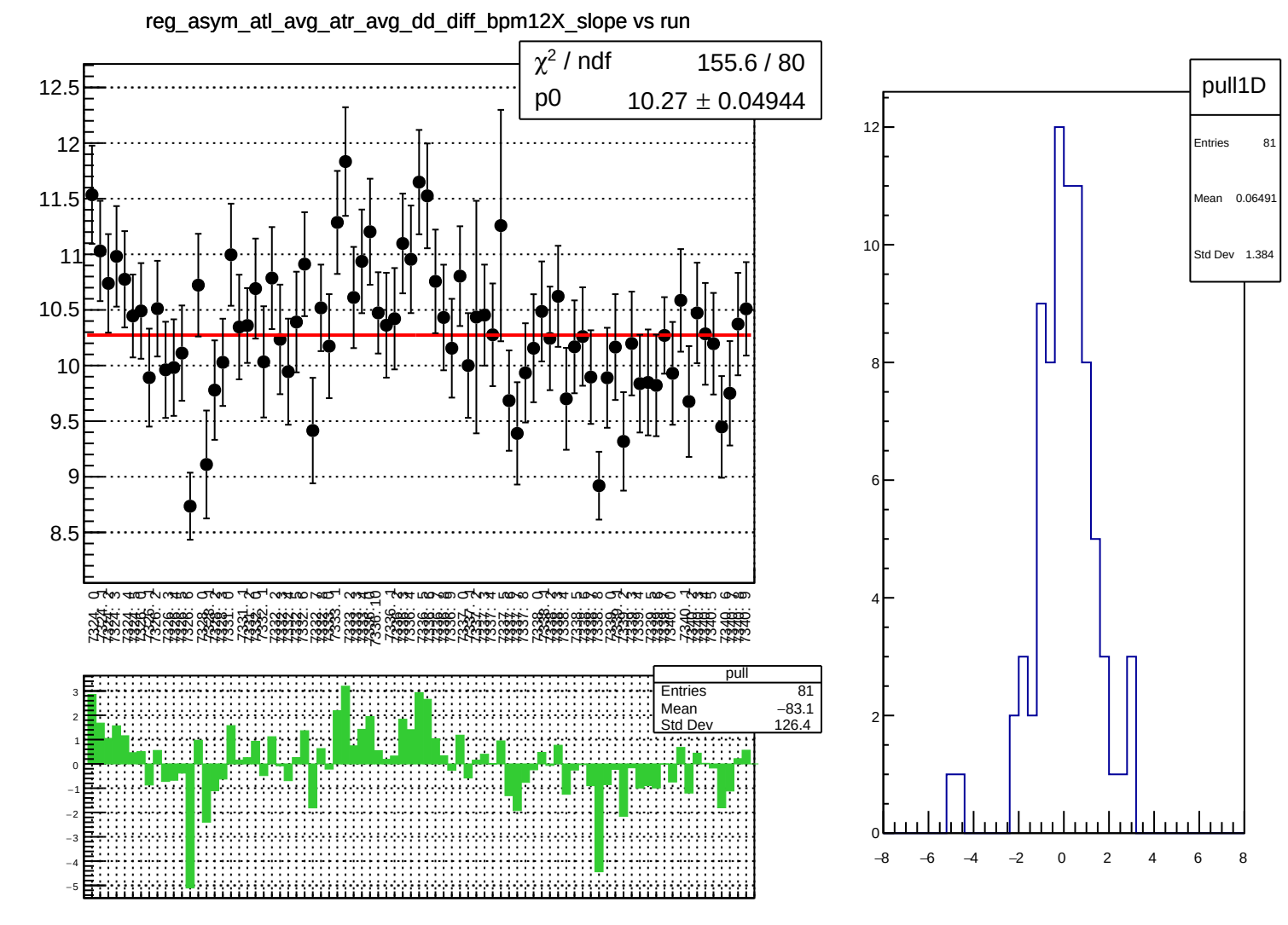

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.49 / 80
p0 5.984 ± 0.9576
pull
Entries 81
Mean 1718
Std Dev 1694

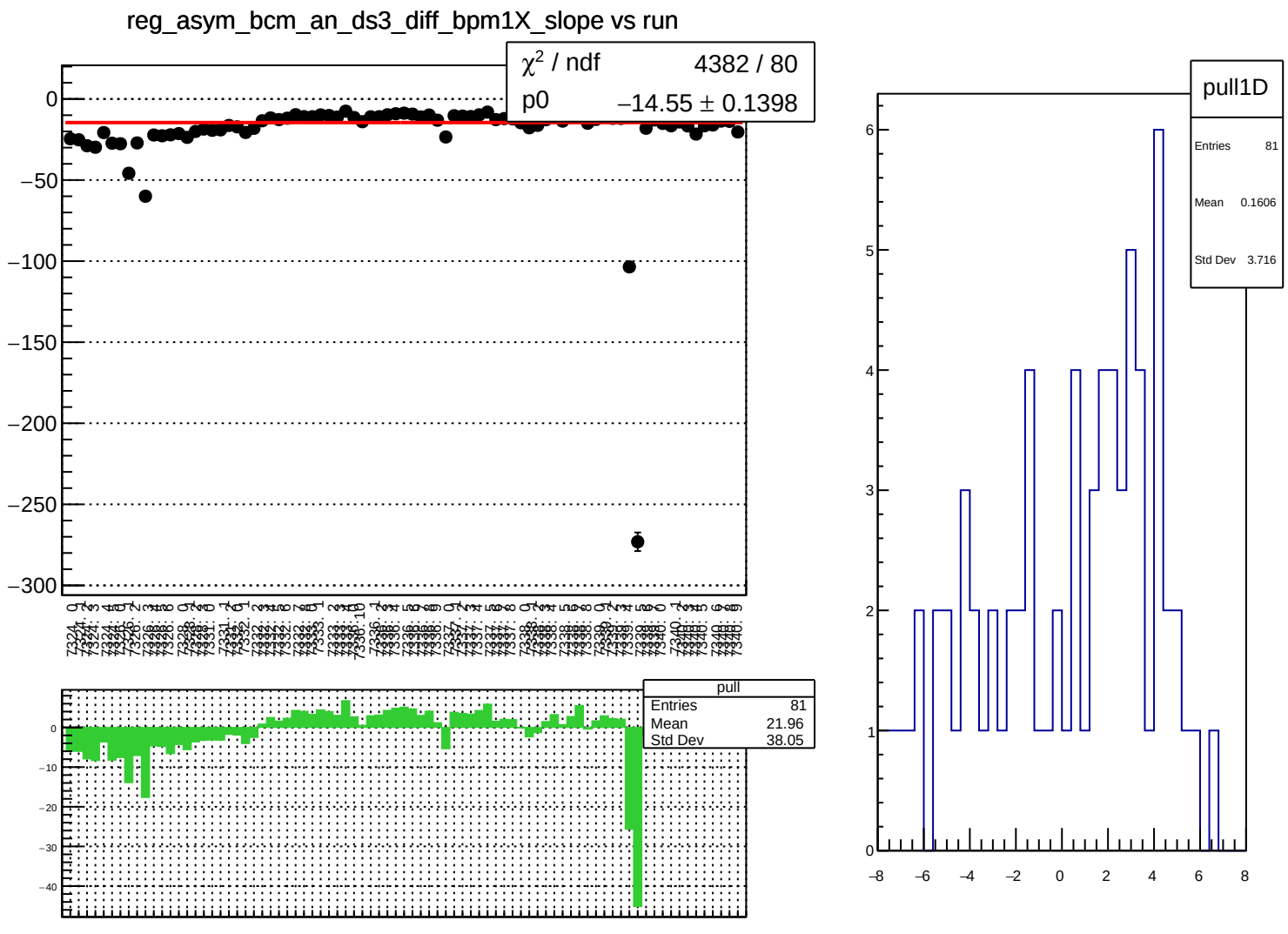

pull1D
Entries 81
Mean 0.003015
Std Dev 1.063

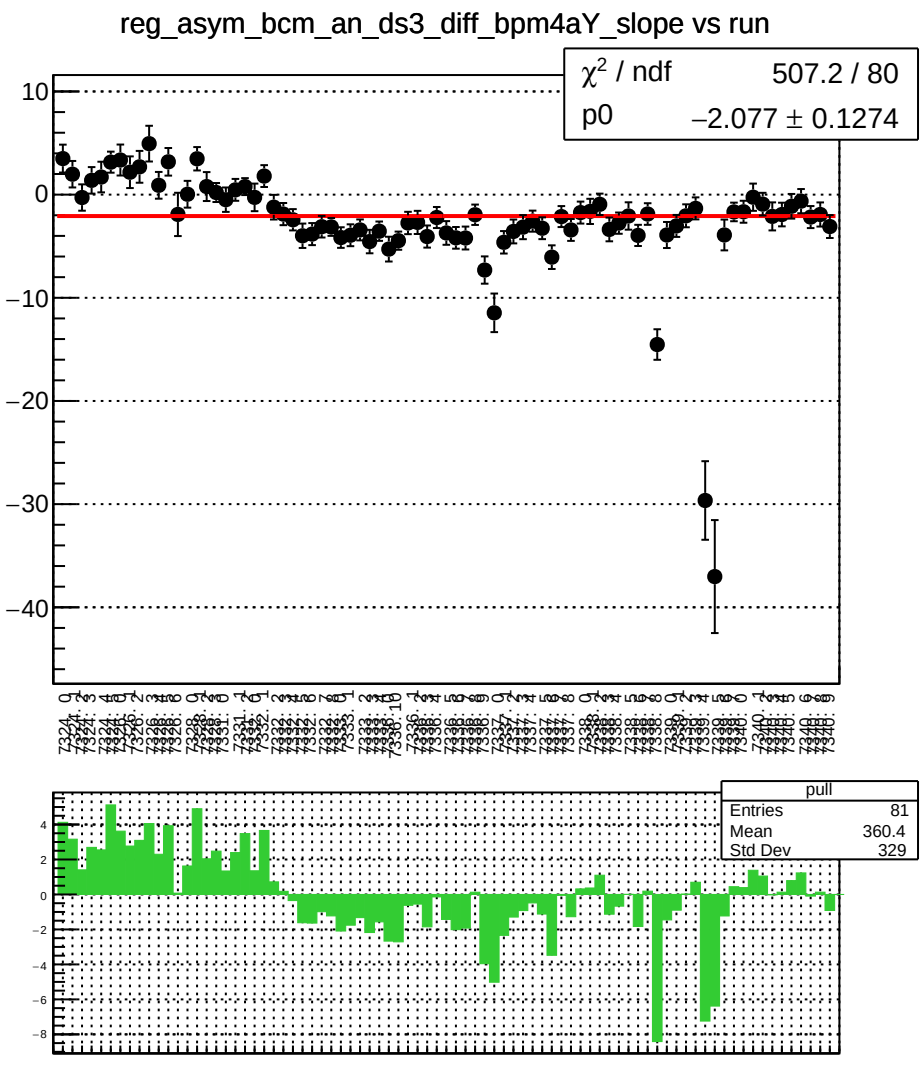

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.5 / 80
p0 −26.12 ± 1.046
pull
Entries 81
Mean −100.8
Std Dev 127.5

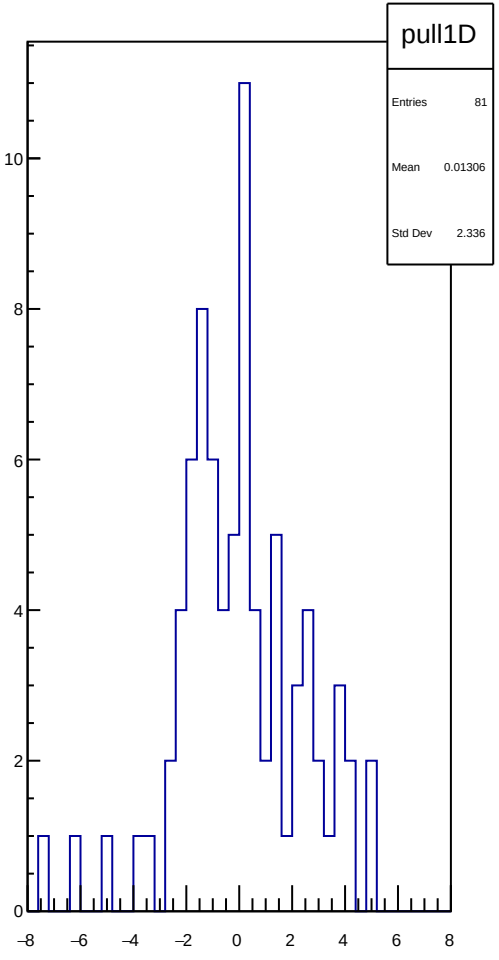

pull1D
Entries 81
Mean −0.08145
Std Dev 1.191

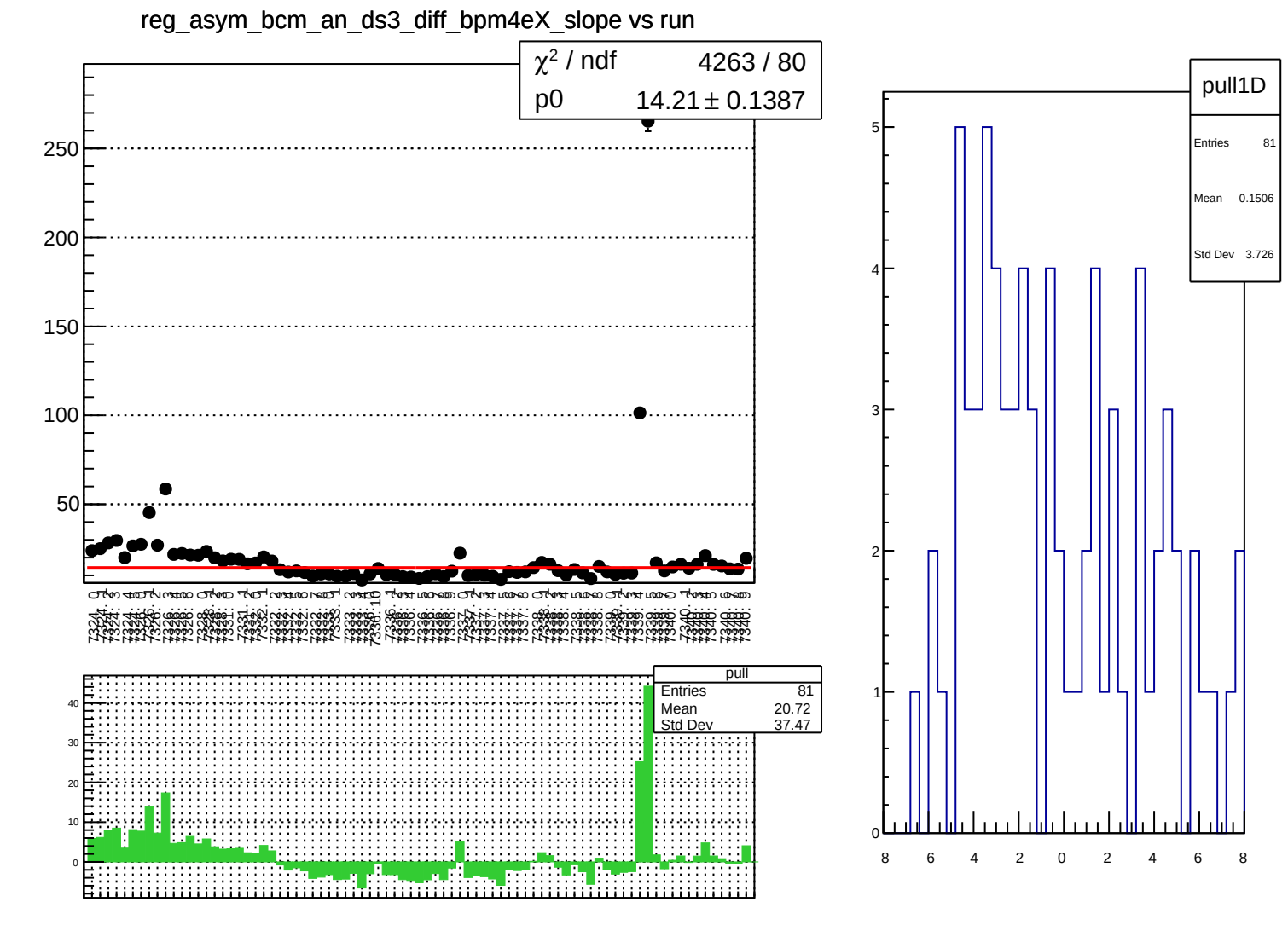

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 96.33 / 80
p0 −10.69 ± 1.008
pull
Entries 81
Mean 2.212e+04
Std Dev 2.209e+04
pull1D
Entries 81
Mean −0.0002704
Std Dev 1.091

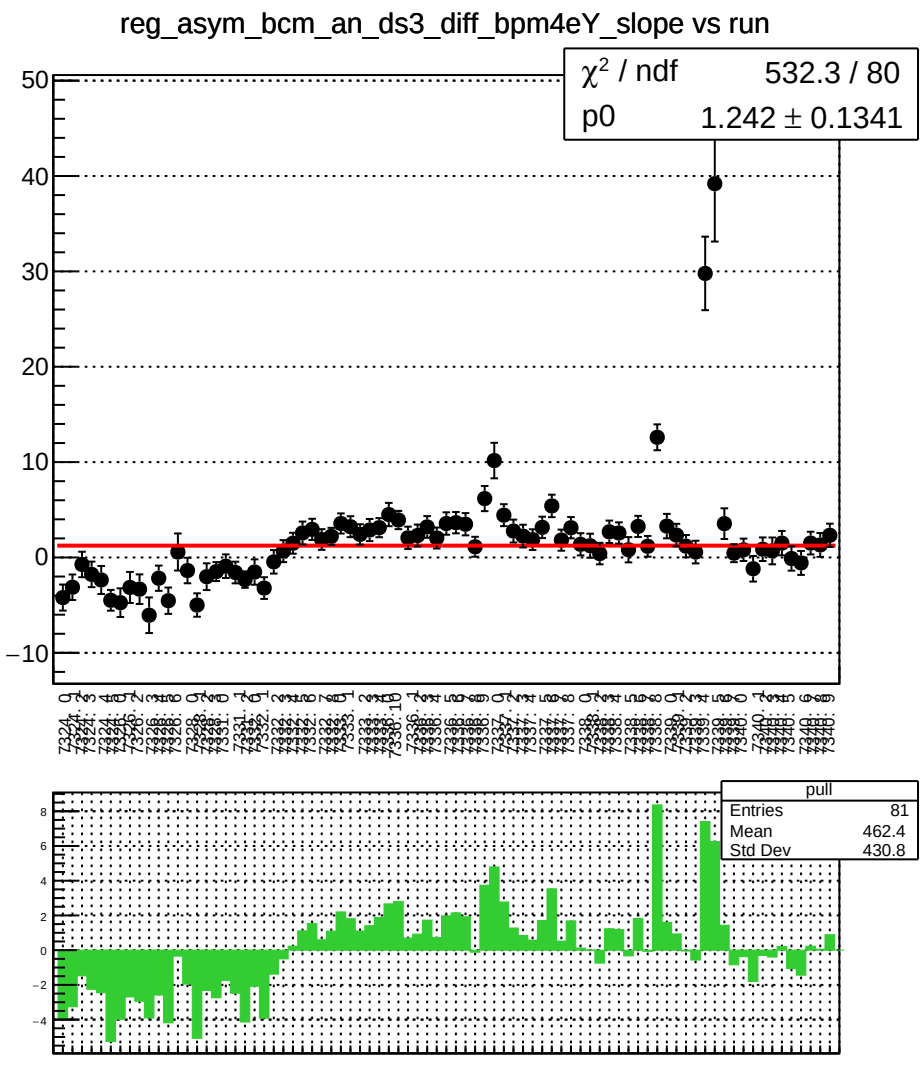

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 155.6 / 80
p0 10.27 ± 0.04944
pull
Entries 81
Mean −83.1
Std Dev 126.4
pull1D
Entries 81
Mean 0.06491
Std Dev 1.384

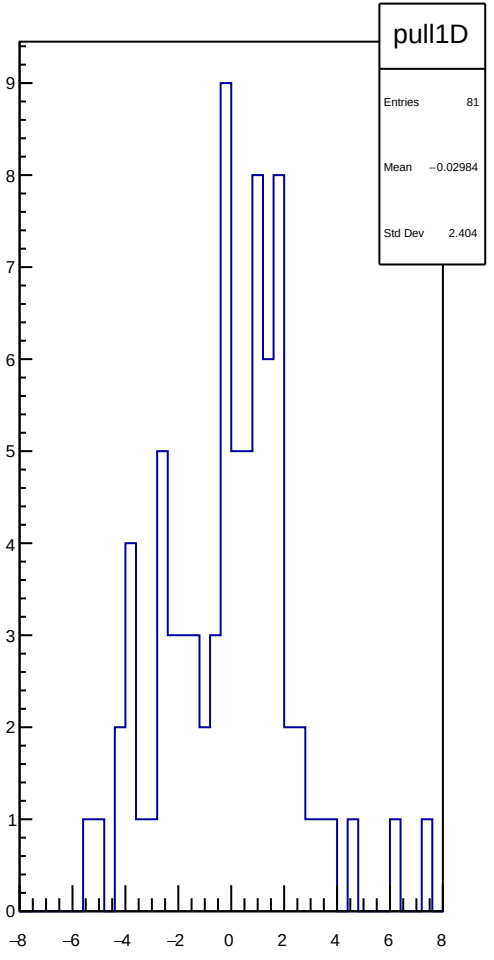

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 4382 / 80
p0 −14.55 ± 0.1398
pull
Entries 81
Mean 21.96
Std Dev 38.05
pull1D
Entries 81
Mean 0.1606
Std Dev 3.716

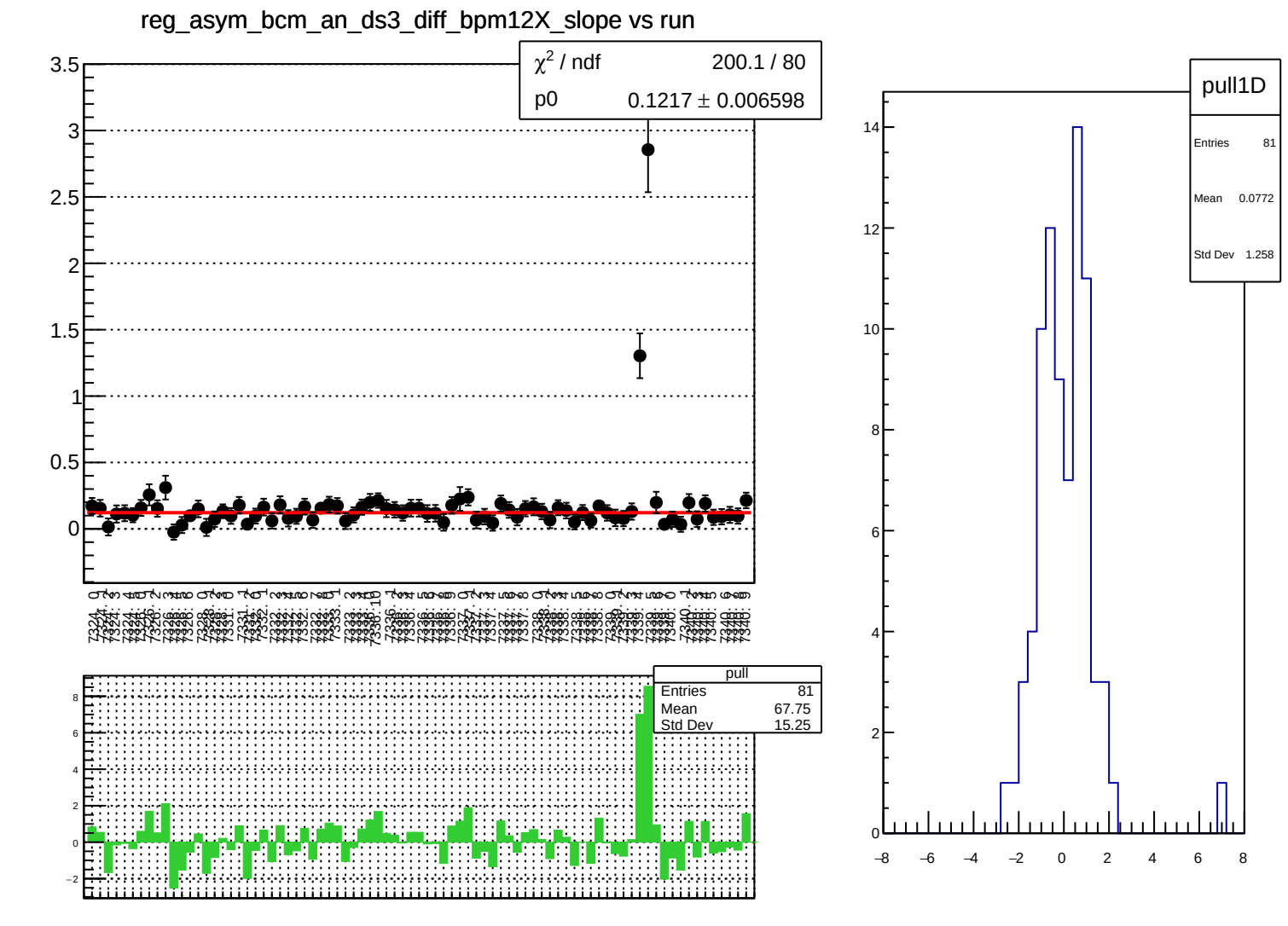

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 507.2 / 80
p0 −2.077 ± 0.1274
pull
Entries 81
Mean 360.4
Std Dev 329

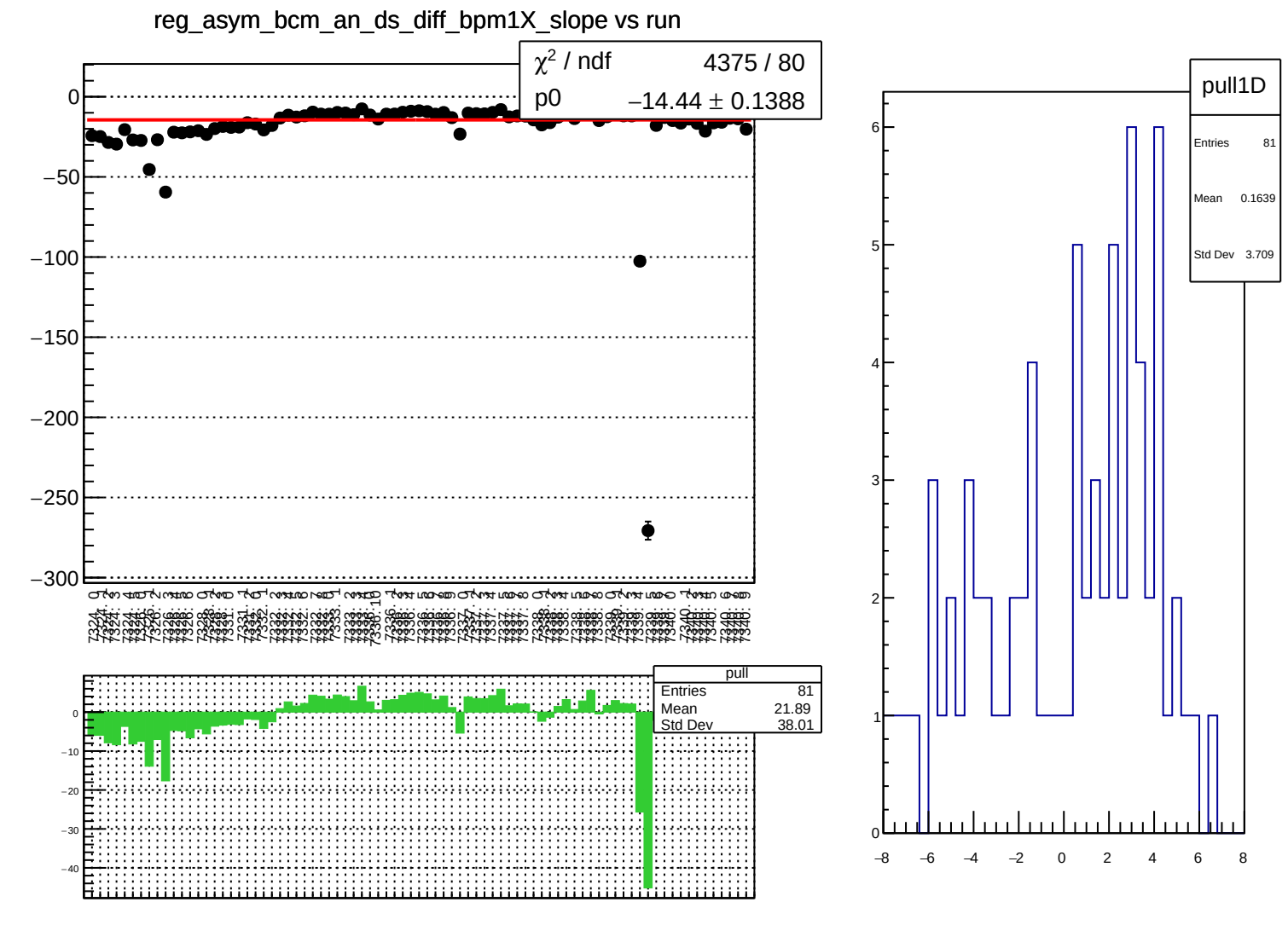

pull1D
Entries 81
Mean 0.01306
Std Dev 2.336

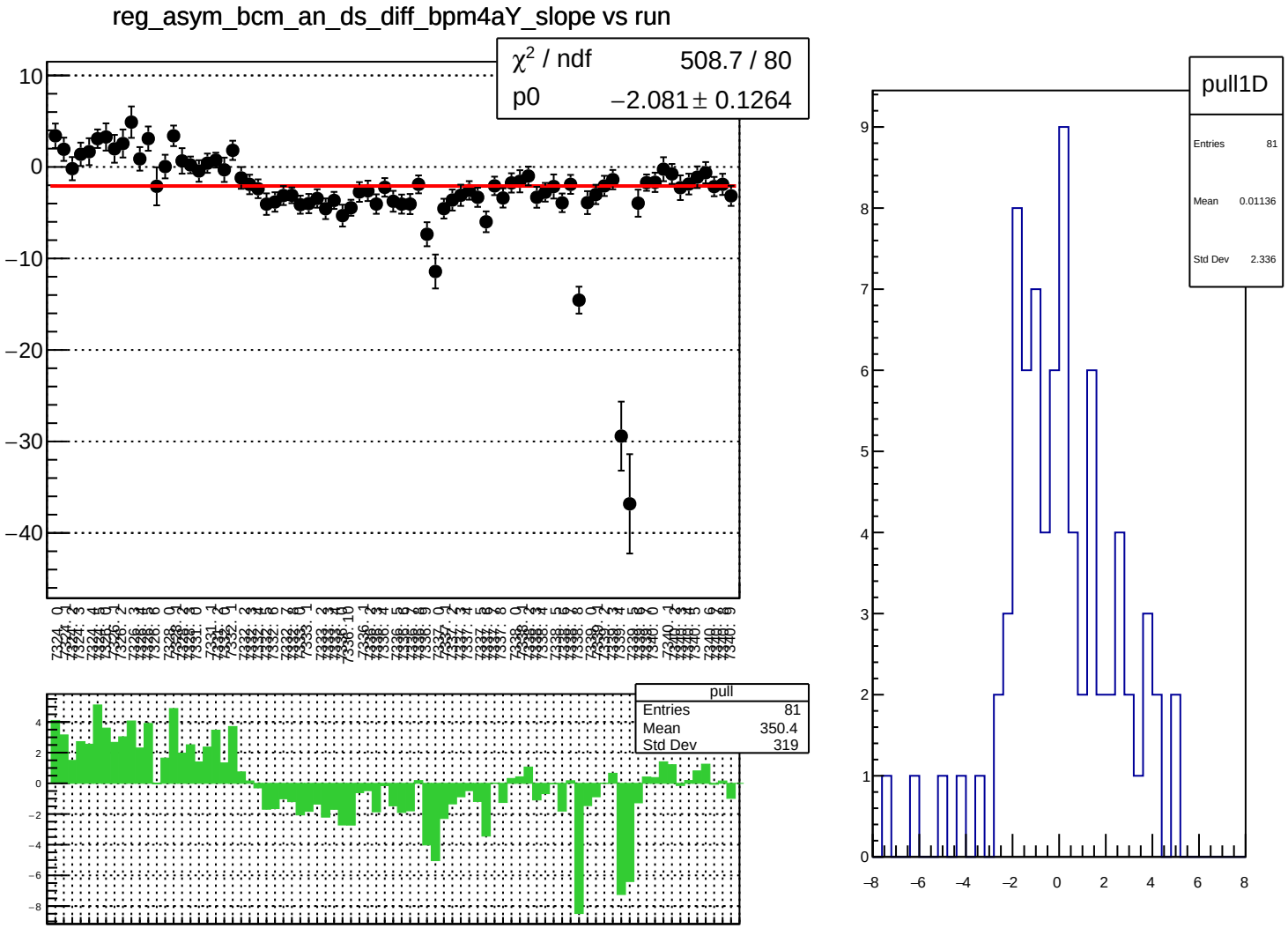

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 4263 / 80
p0 14.21 ± 0.1387
250
200
150
100
50
pull
Entries 81
Mean 20.72
Std Dev 37.47
40
30
20
10
0
pull1D
Entries 81
Mean −0.1506
Std Dev 3.726
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

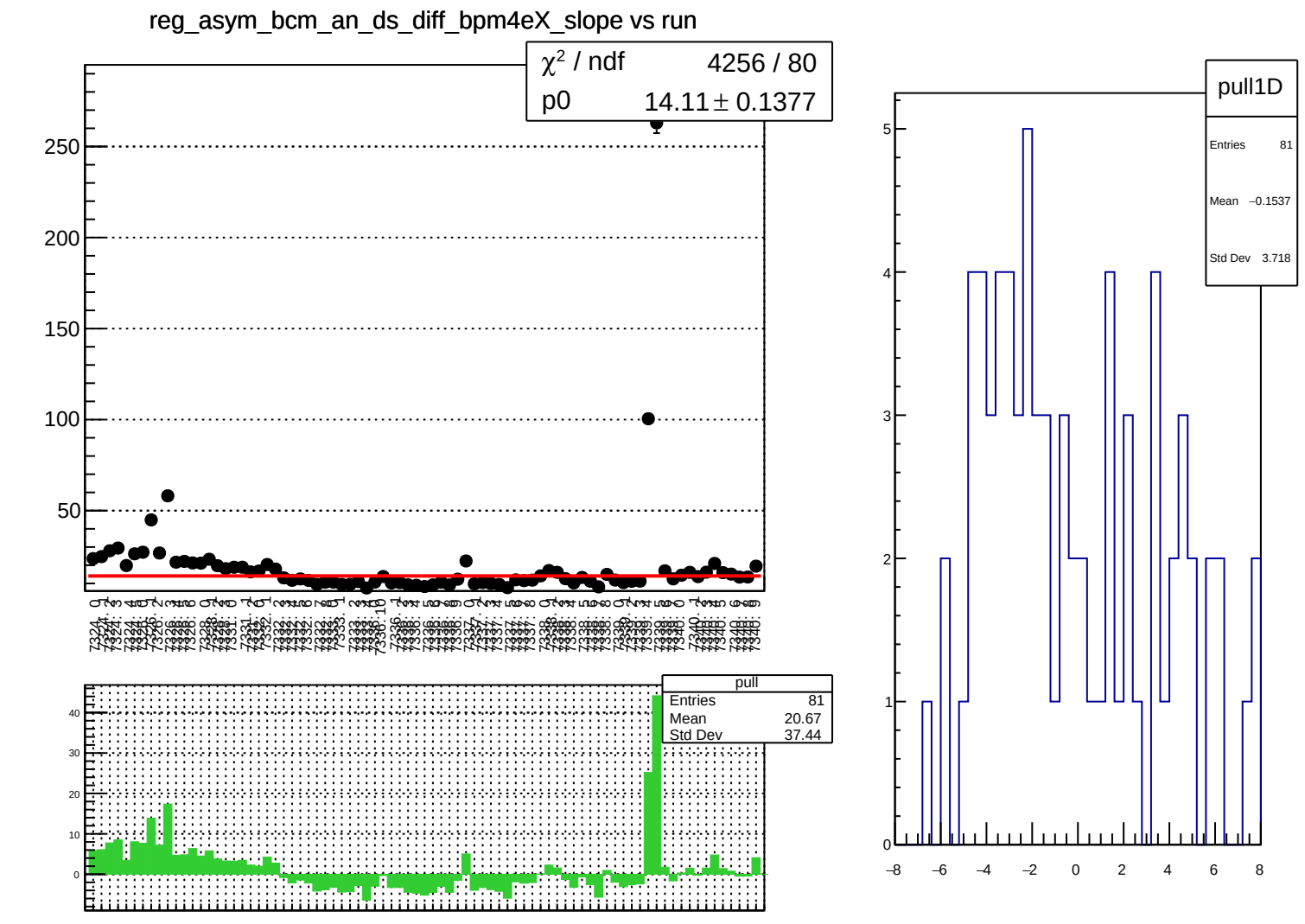

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 532.3 / 80
p0 1.242 ± 0.1341
pull
Entries 81
Mean 462.4
Std Dev 430.8

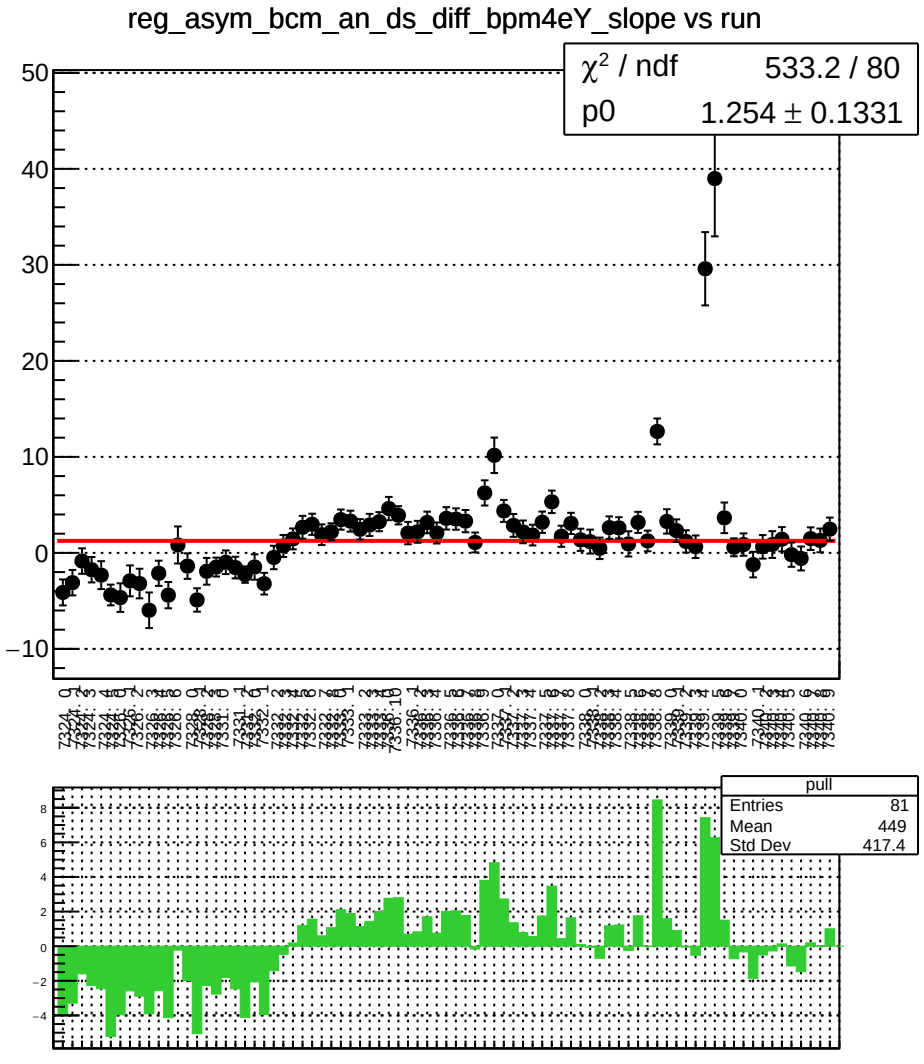

pull1D
Entries 81
Mean −0.02984
Std Dev 2.404

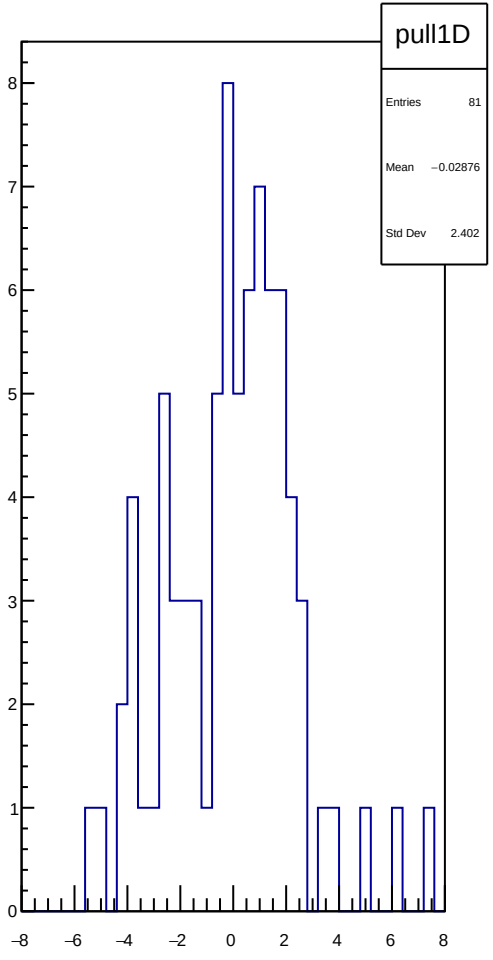

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 200.1 / 80
p0 0.1217 ± 0.006598
pull
Entries 81
Mean 67.75
Std Dev 15.25
pull1D
Entries 81
Mean 0.0772
Std Dev 1.258

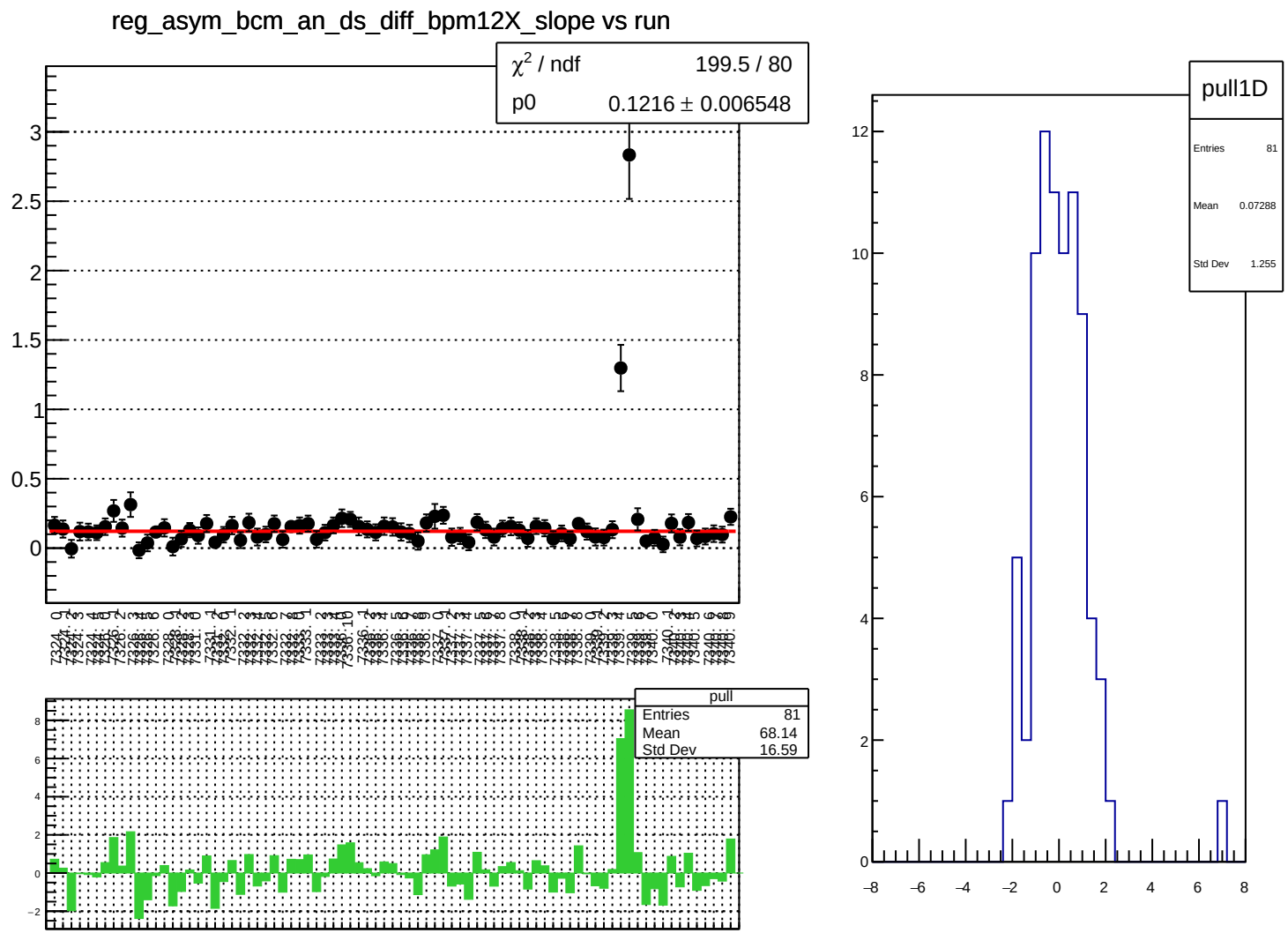

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 4375 / 80
p0 −14.44 ± 0.1388
pull
Entries 81
Mean 21.89
Std Dev 38.01
pull1D
Entries 81
Mean 0.1639
Std Dev 3.709

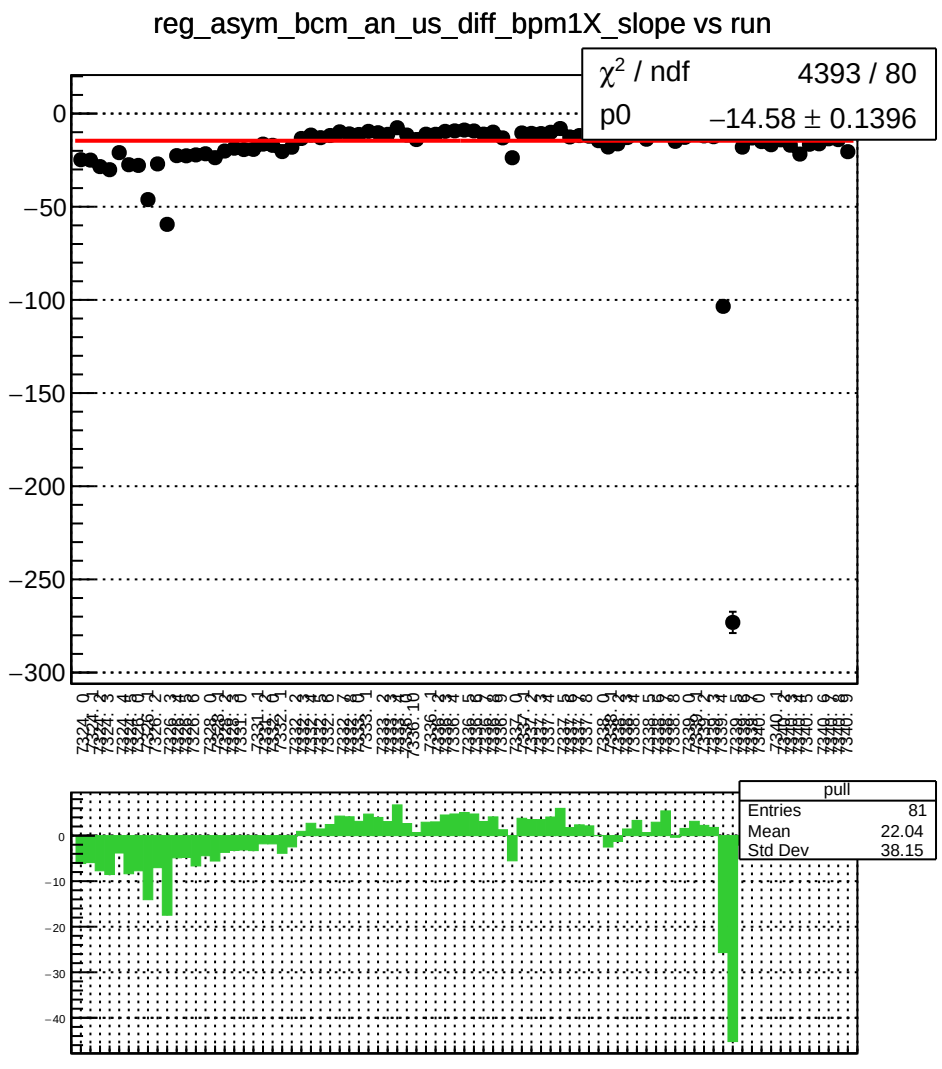

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 508.7 / 80
p0 −2.081 ± 0.1264
pull
Entries 81
Mean 350.4
Std Dev 319
pull1D
Entries 81
Mean 0.01136
Std Dev 2.336

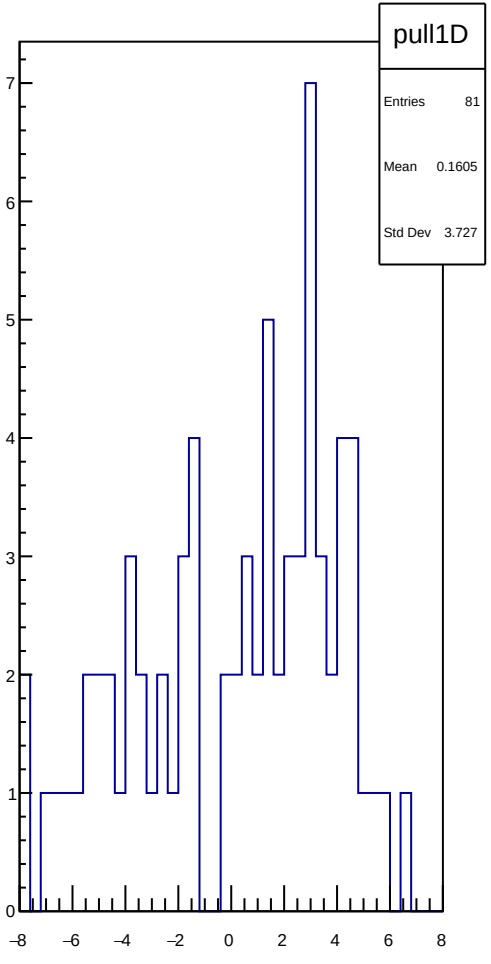

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 4256 / 80
p0 14.11 ± 0.1377
250
200
150
100
50
pull
Entries 81
Mean 20.67
Std Dev 37.44
40
30
20
10
0
pull1D
Entries 81
Mean −0.1537
Std Dev 3.718
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

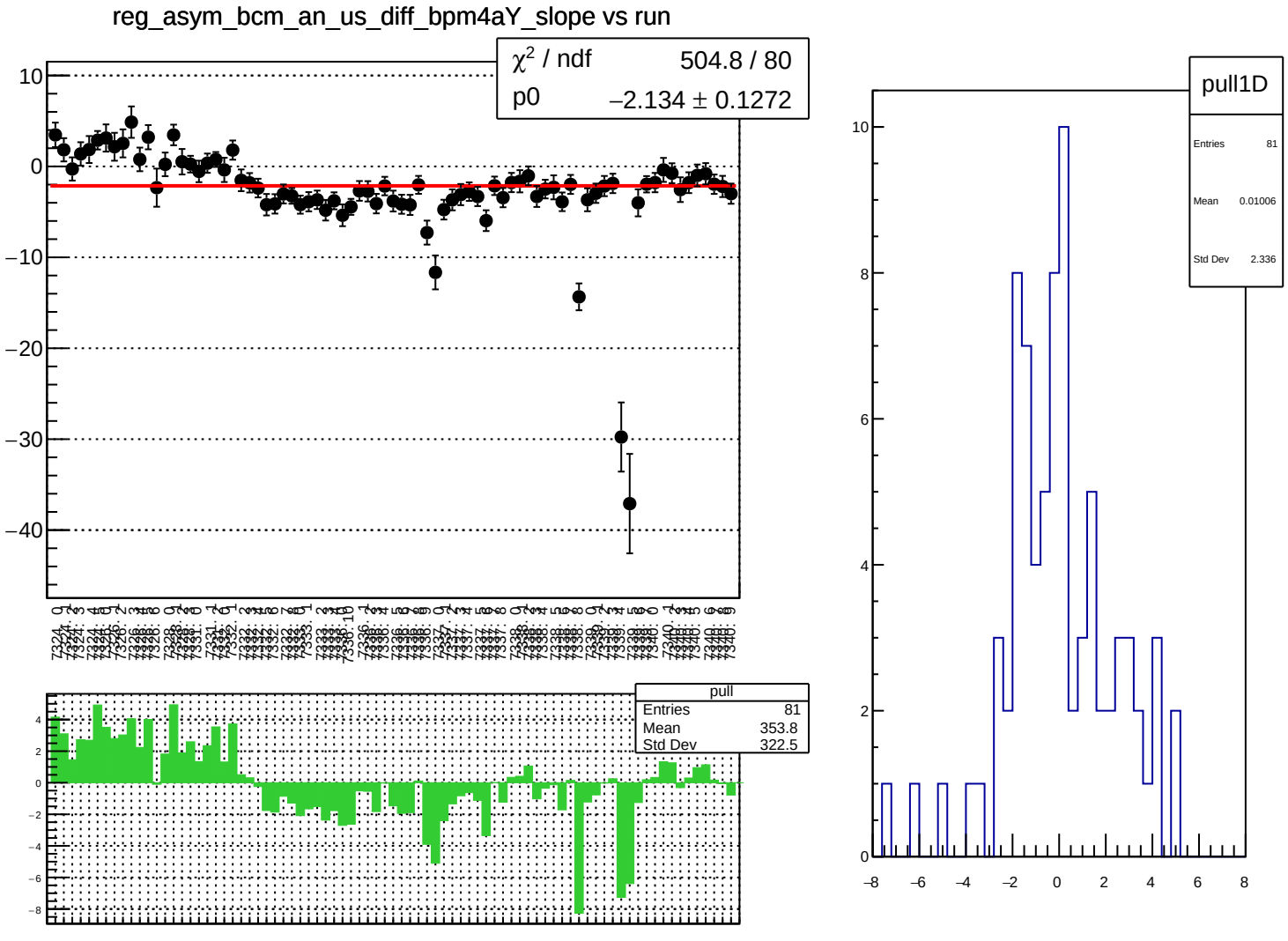

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 533.2 / 80
p0 1.254 ± 0.1331
pull
Entries 81
Mean 449
Std Dev 417.4

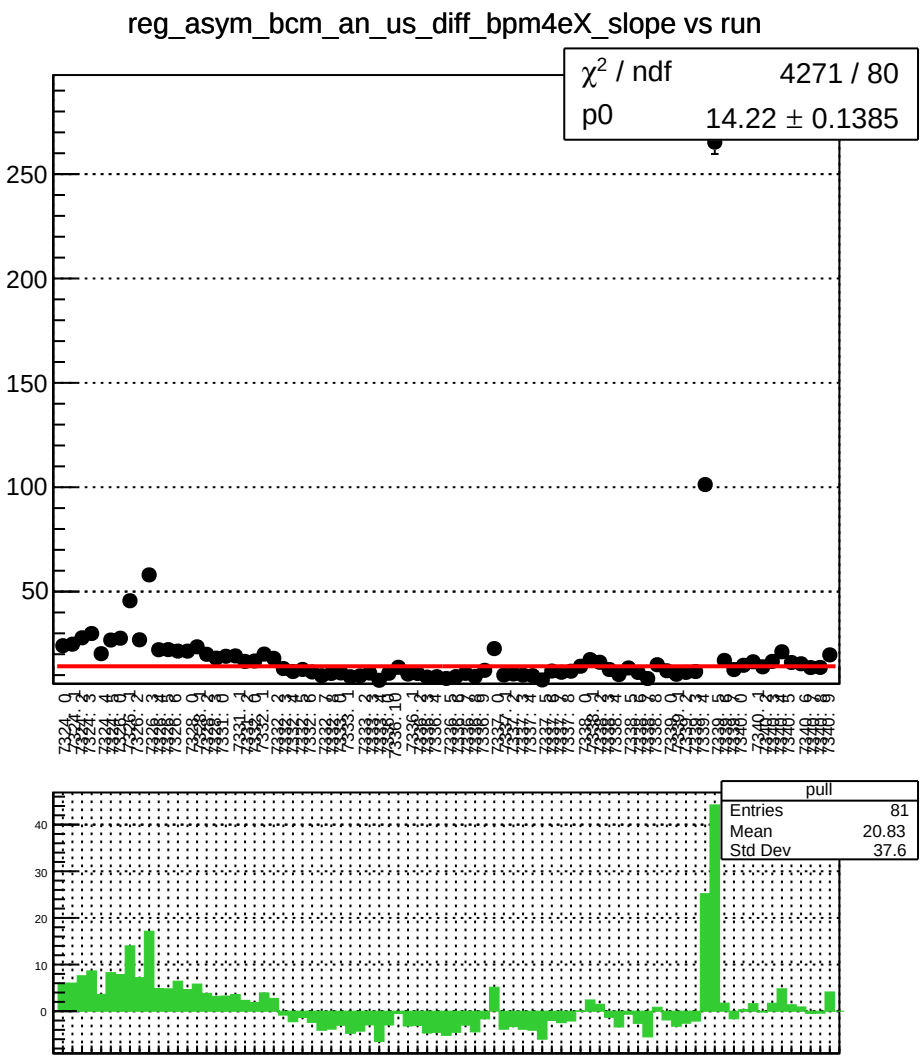

pull1D
Entries 81
Mean −0.02876
Std Dev 2.402

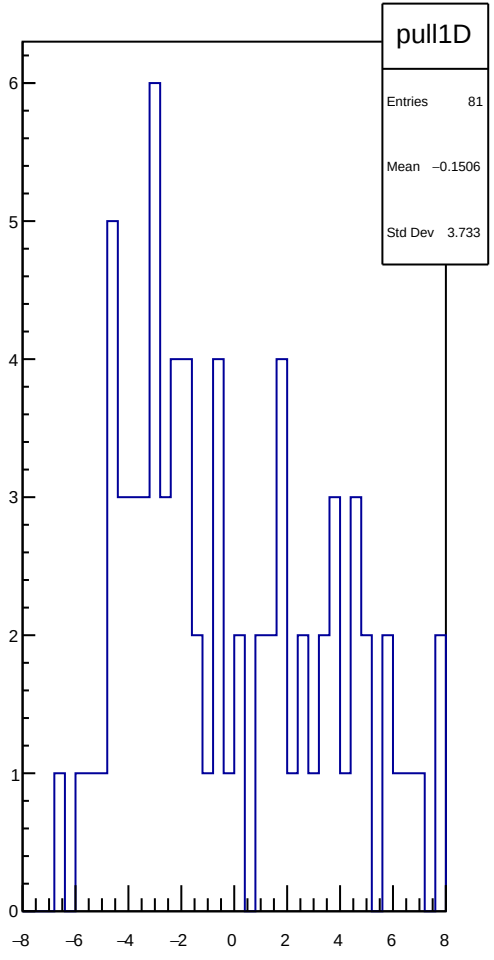

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 199.5 / 80
p0 0.1216 ± 0.006548
pull
Entries 81
Mean 68.14
Std Dev 16.59
pull1D
Entries 81
Mean 0.07288
Std Dev 1.255

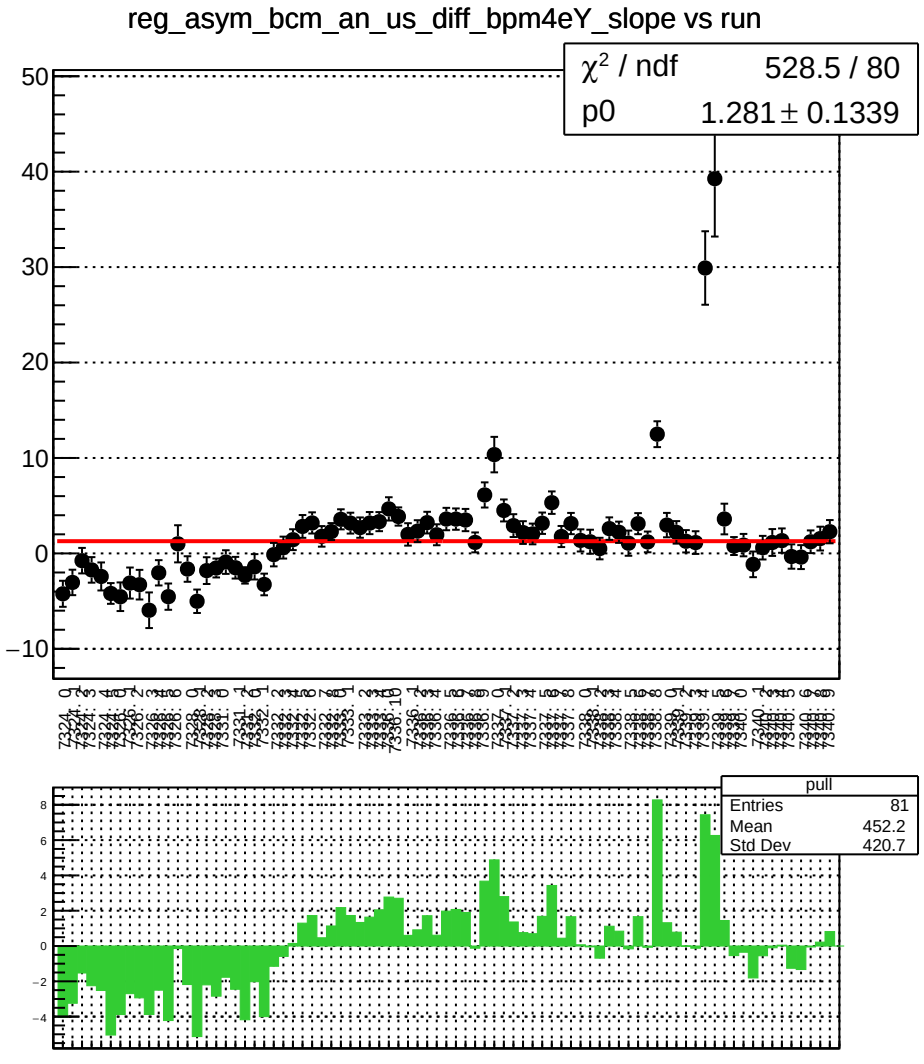

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 4393 / 80
p0 −14.58 ± 0.1396
pull
Entries 81
Mean 22.04
Std Dev 38.15

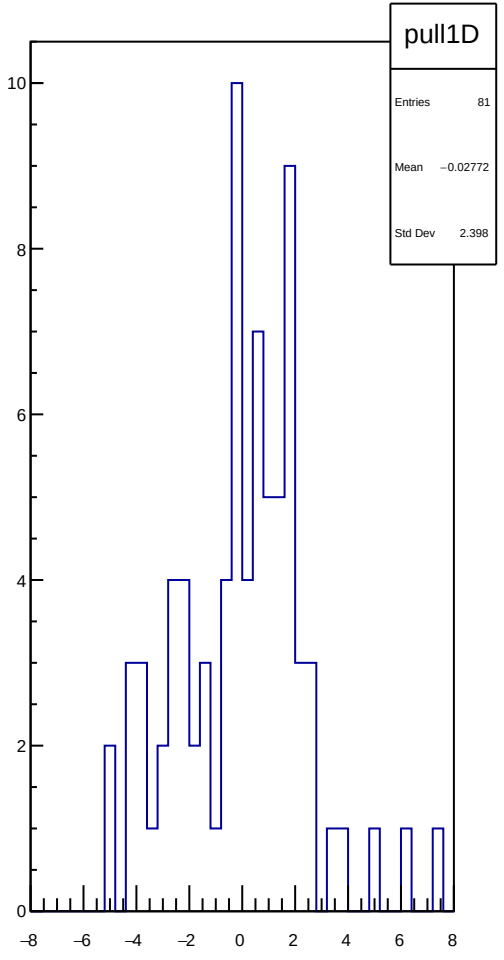

pull1D
Entries 81
Mean 0.1605
Std Dev 3.727

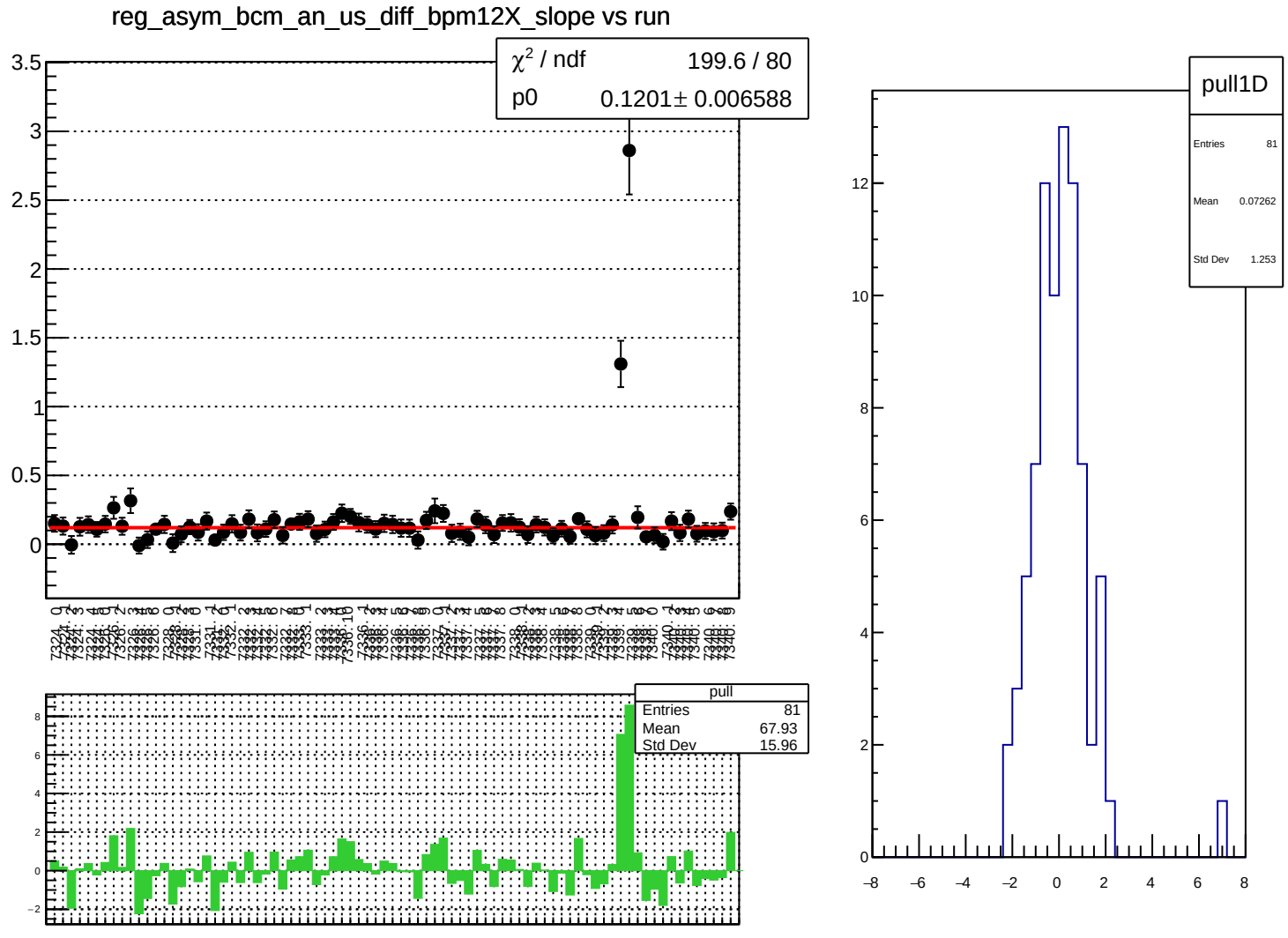

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 504.8 / 80
p0 −2.134 ± 0.1272
pull
Entries 81
Mean 353.8
Std Dev 322.5
pull1D
Entries 81
Mean 0.01006
Std Dev 2.336

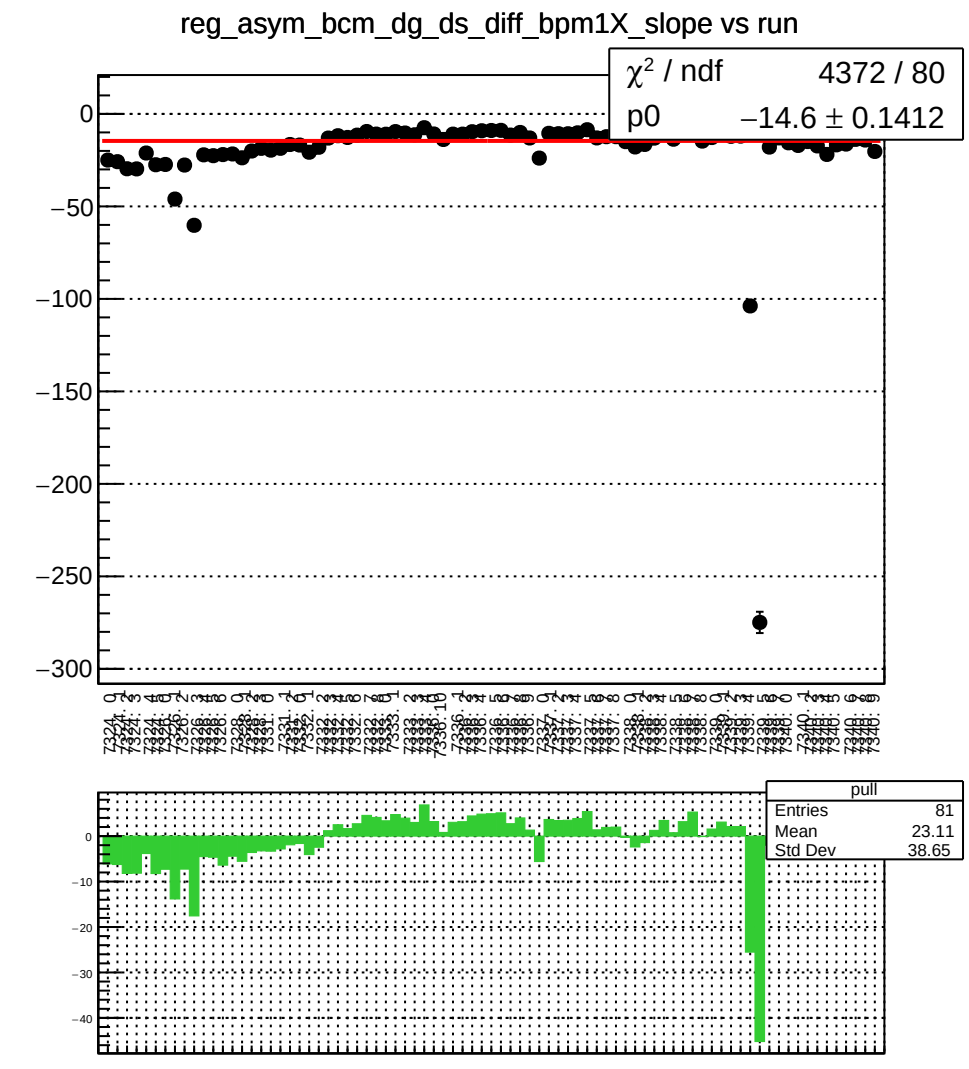

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 4271 / 80
p0 14.22 ± 0.1385
250
200
150
100
50
pull
Entries 81
Mean 20.83
Std Dev 37.6
40
30
20
10
0

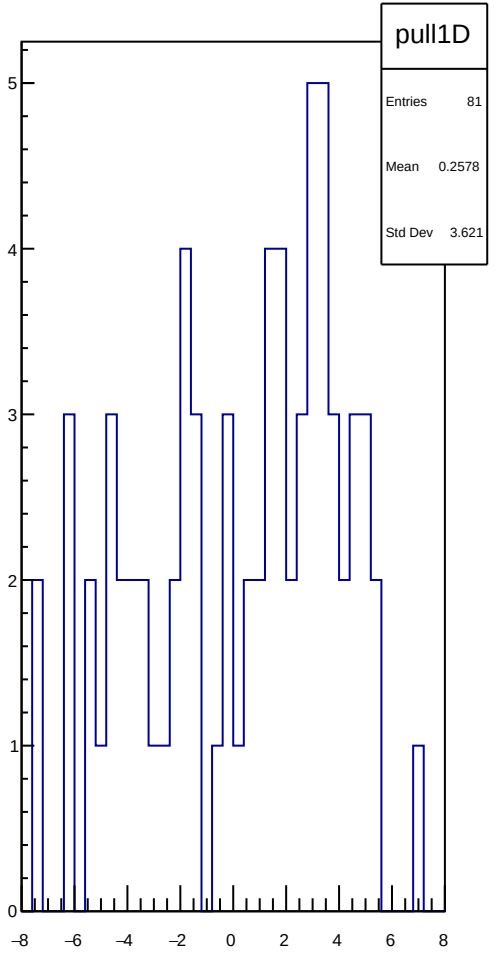

pull1D
Entries 81
Mean −0.1506
Std Dev 3.733
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

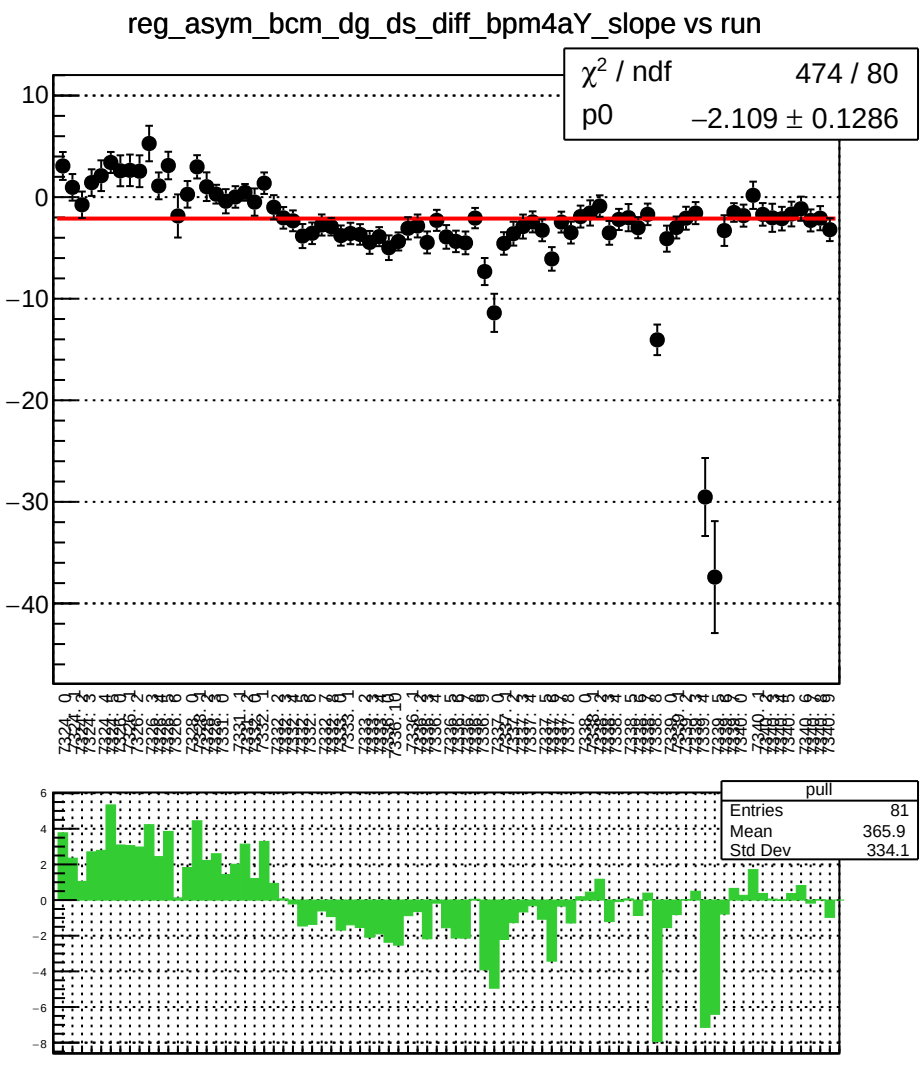

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 528.5 / 80
p0 1.281 ± 0.1339
pull
Entries 81
Mean 452.2
Std Dev 420.7

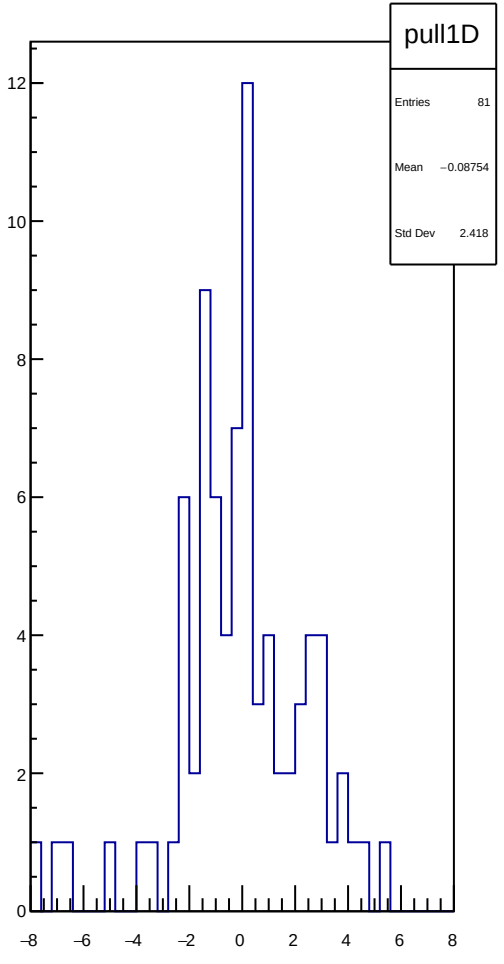

pull1D
Entries 81
Mean −0.02772
Std Dev 2.398

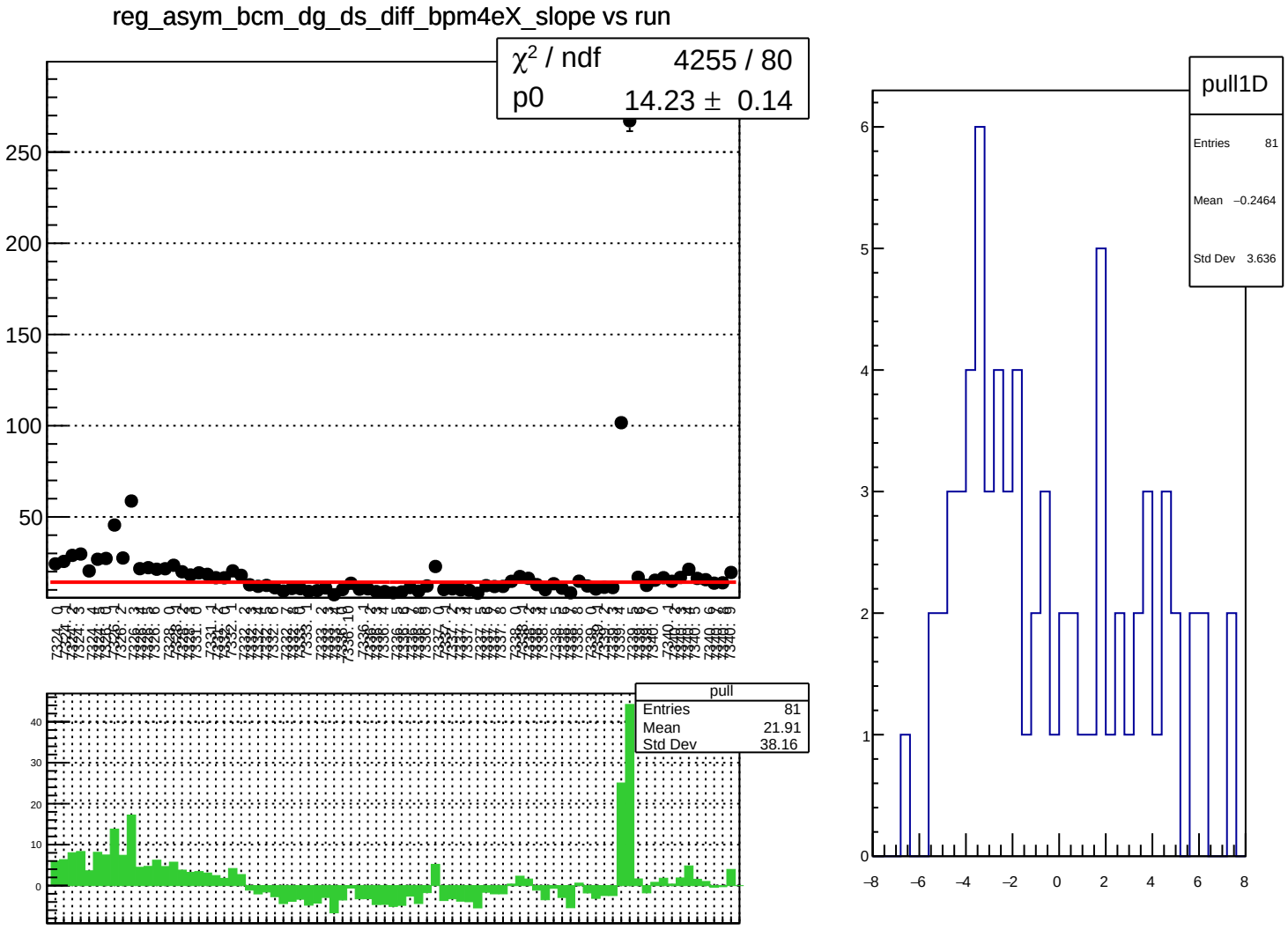

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 199.6 / 80
p0 0.1201± 0.006588
pull
Entries 81
Mean 67.93
Std Dev 15.96
pull1D
Entries 81
Mean 0.07262
Std Dev 1.253

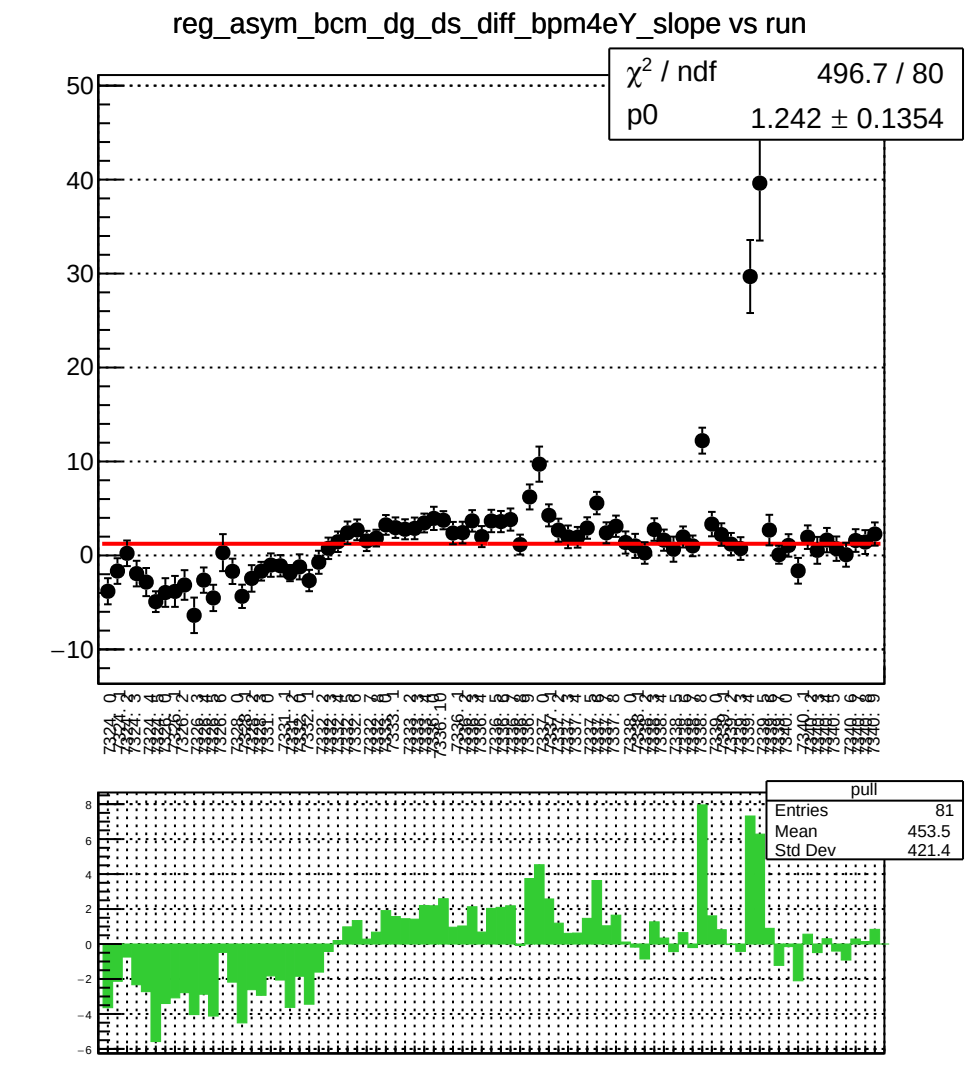

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 4372 / 80
p0 −14.6 ± 0.1412
pull
Entries 81
Mean 23.11
Std Dev 38.65

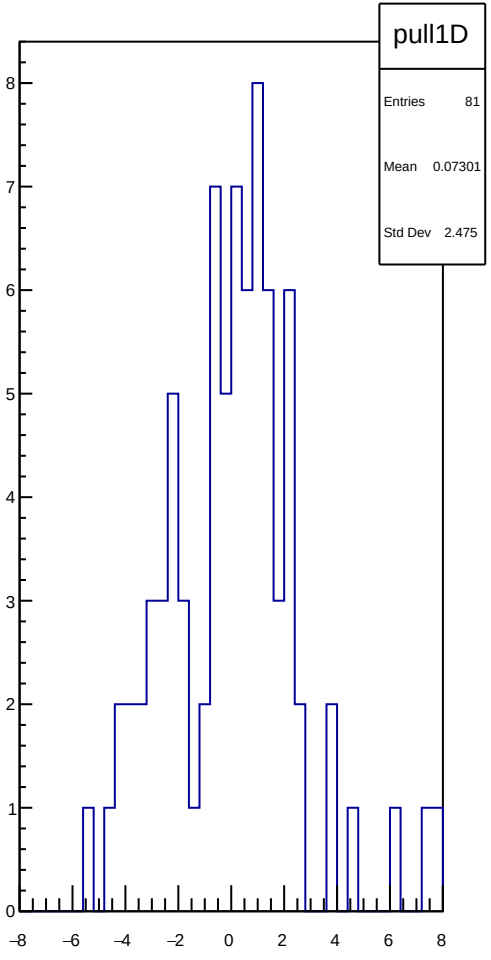

pull1D
Entries 81
Mean 0.2578
Std Dev 3.621

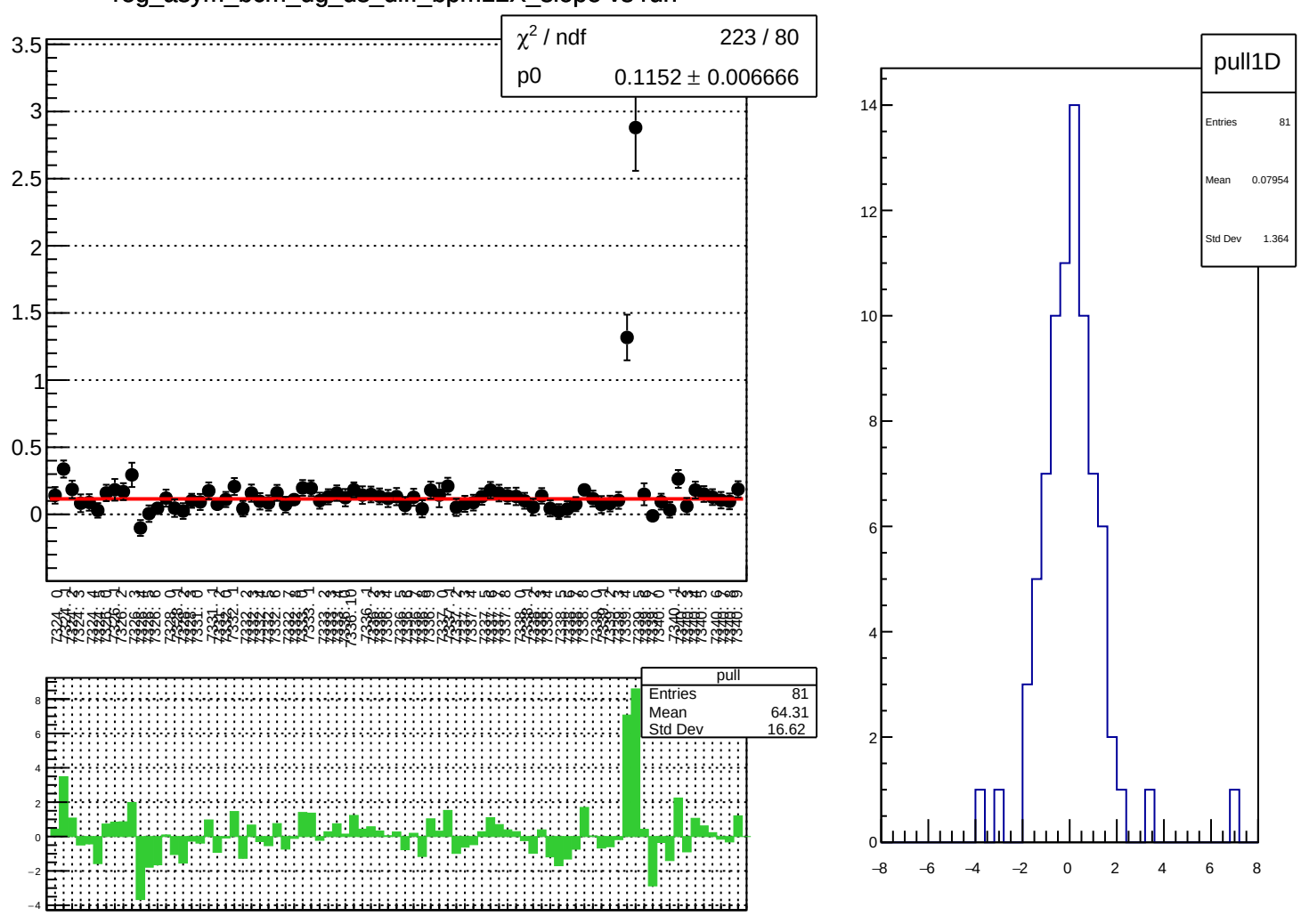

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 474 / 80
p0 −2.109 ± 0.1286
pull
Entries 81
Mean 365.9
Std Dev 334.1

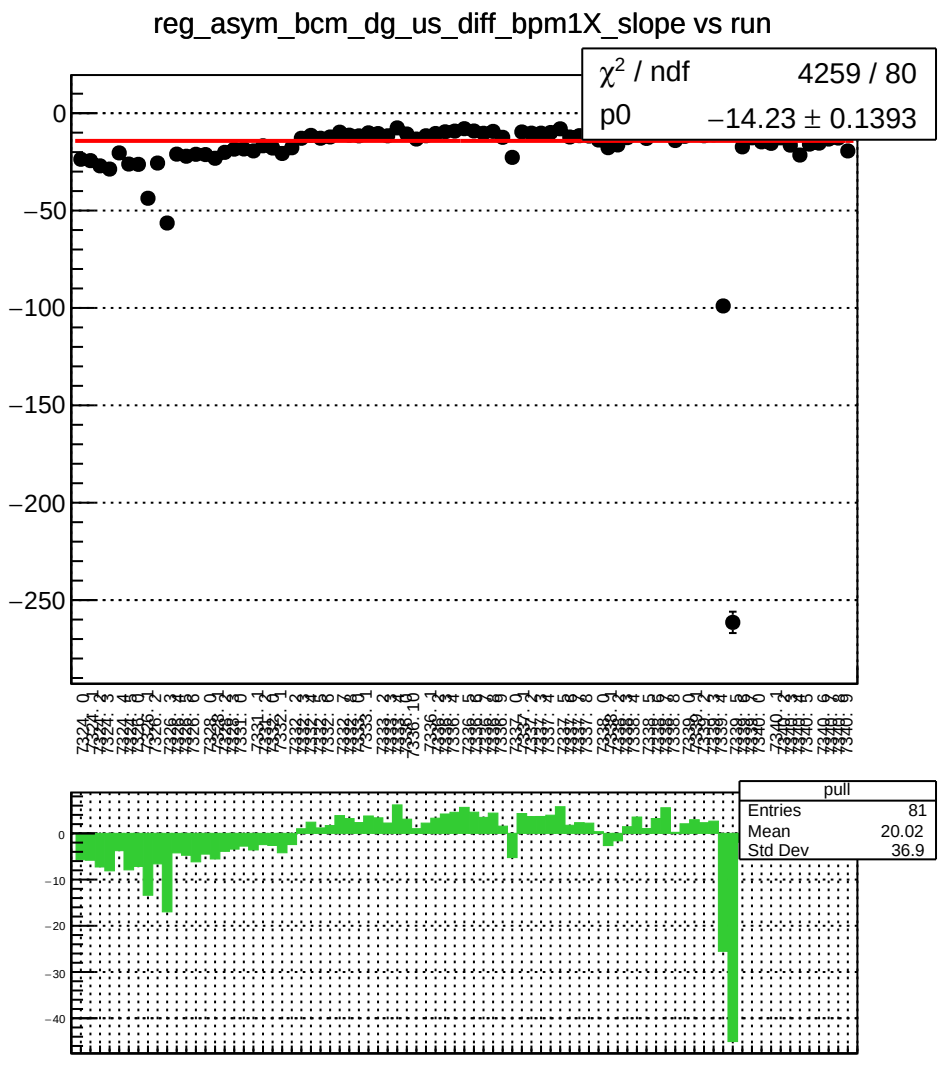

pull1D
Entries 81
Mean −0.08754
Std Dev 2.418

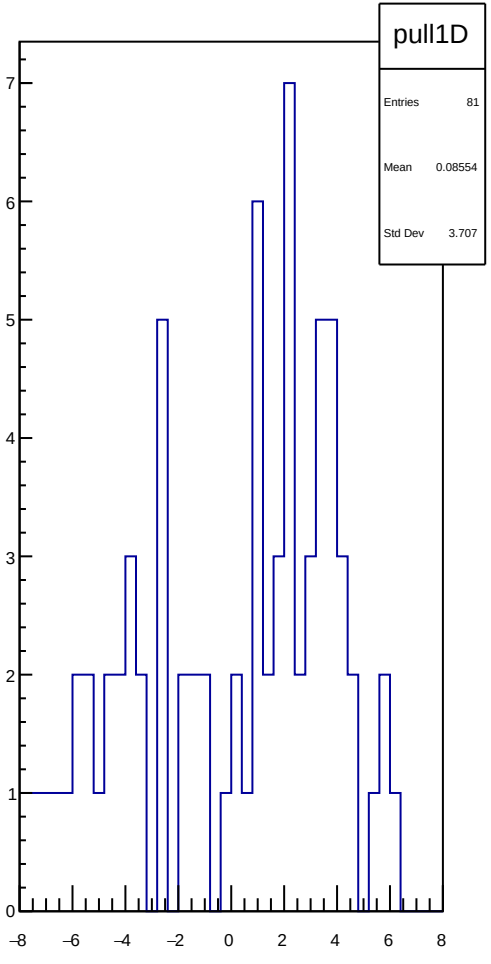

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 4255 / 80
p0 14.23 ± 0.14
250
200
150
100
50
pull
Entries 81
Mean 21.91
Std Dev 38.16
40
30
20
10
0
pull1D
Entries 81
Mean −0.2464
Std Dev 3.636
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

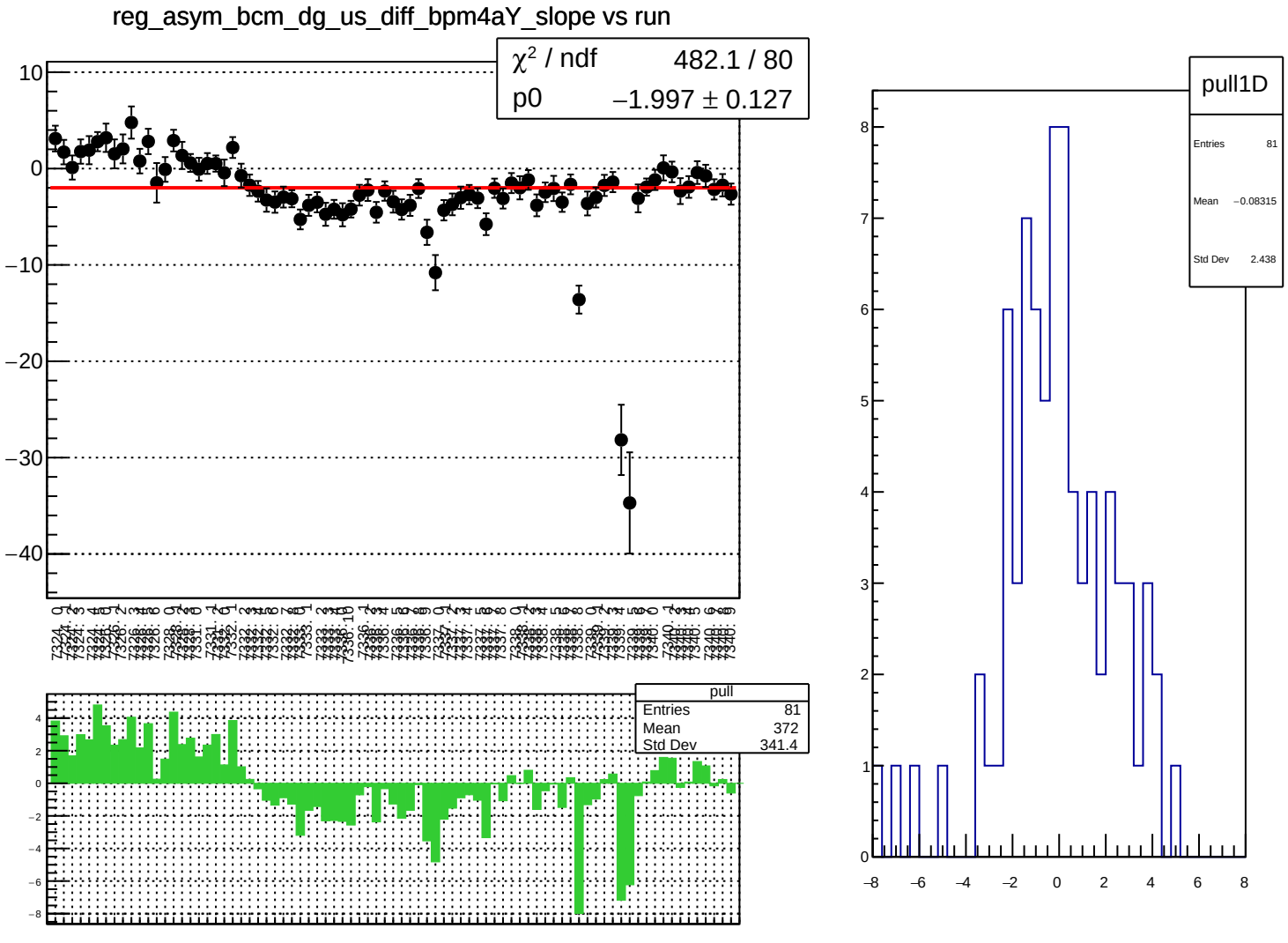

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 496.7 / 80
p0 1.242 ± 0.1354
pull
Entries 81
Mean 453.5
Std Dev 421.4

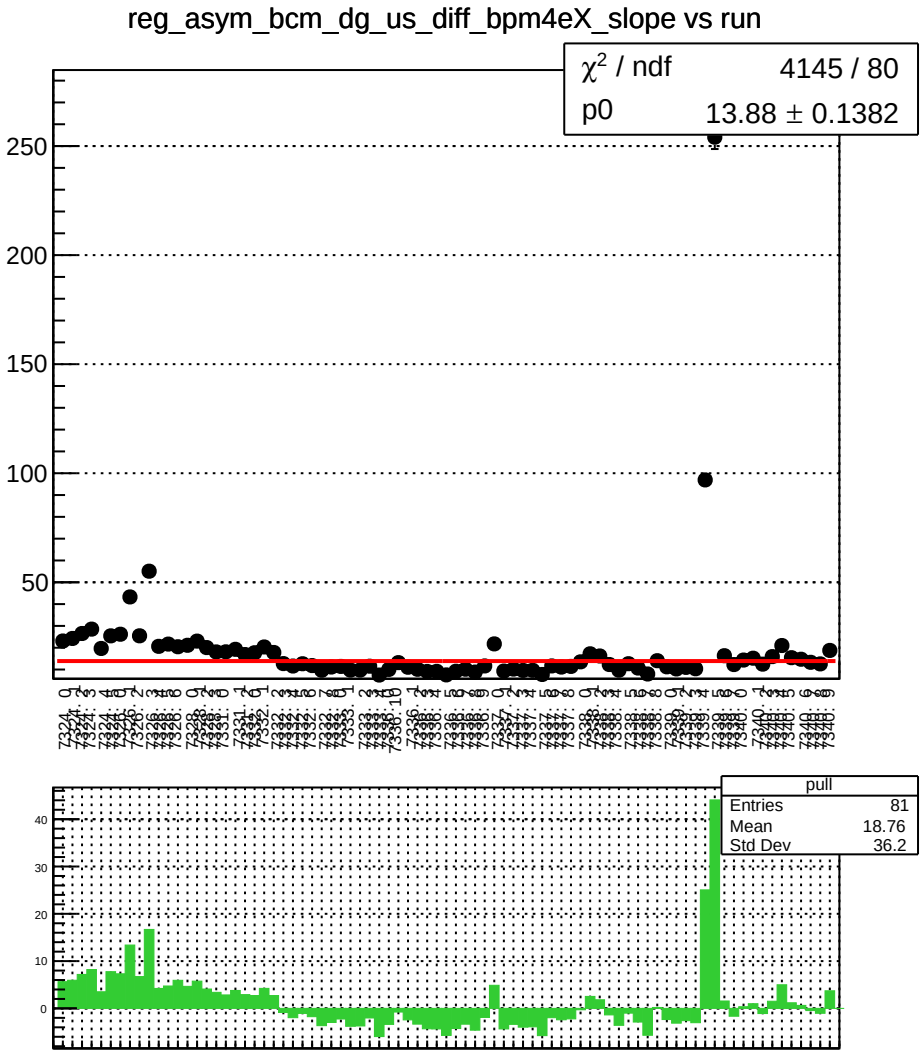

pull1D
Entries 81
Mean 0.07301
Std Dev 2.475

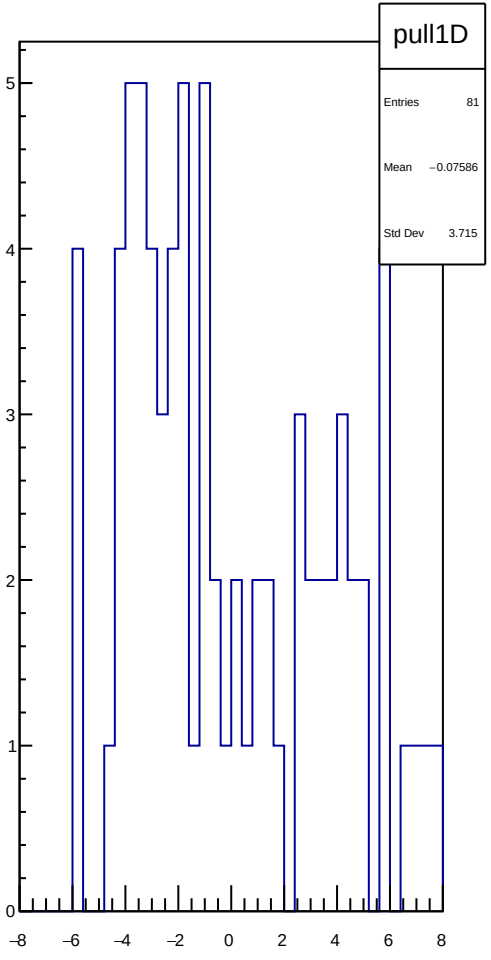

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 223 / 80
p0 0.1152 ± 0.006666
pull
Entries 81
Mean 64.31
Std Dev 16.62
pull1D
Entries 81
Mean 0.07954
Std Dev 1.364

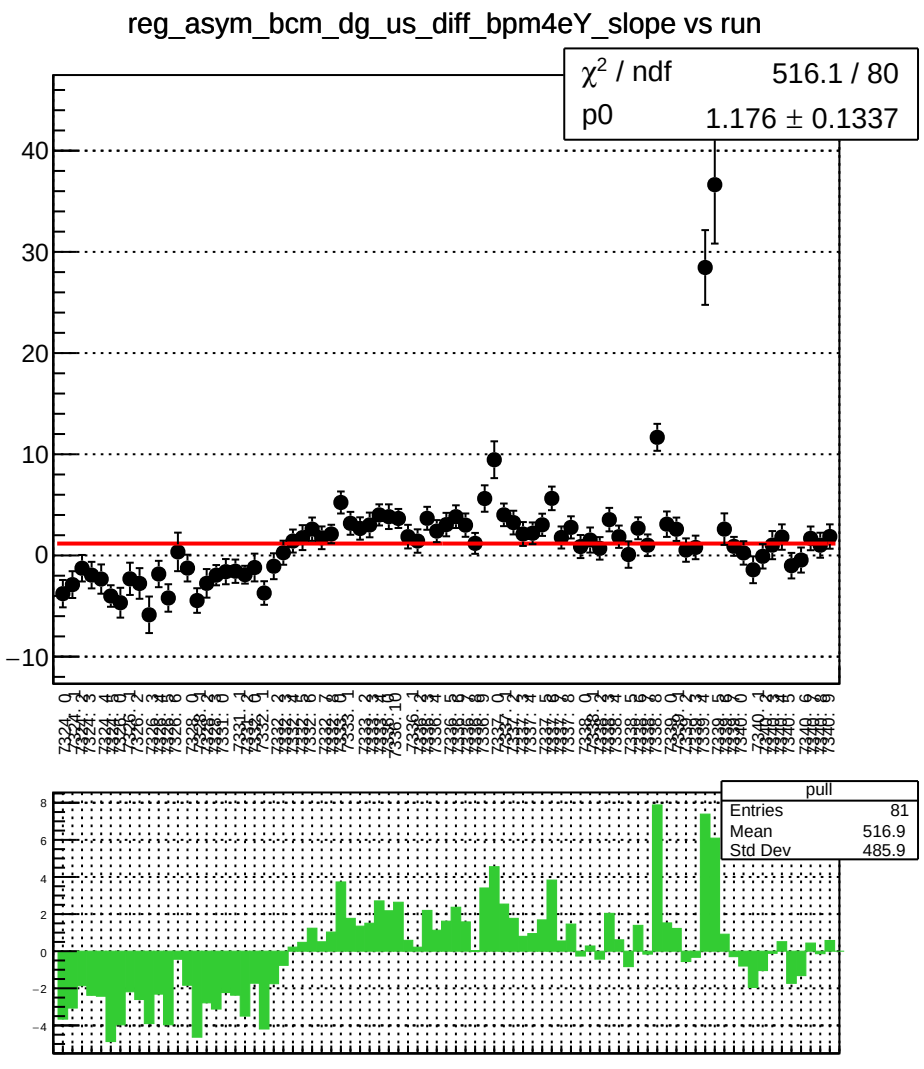

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 4259 / 80
p0 −14.23 ± 0.1393
pull
Entries 81
Mean 20.02
Std Dev 36.9

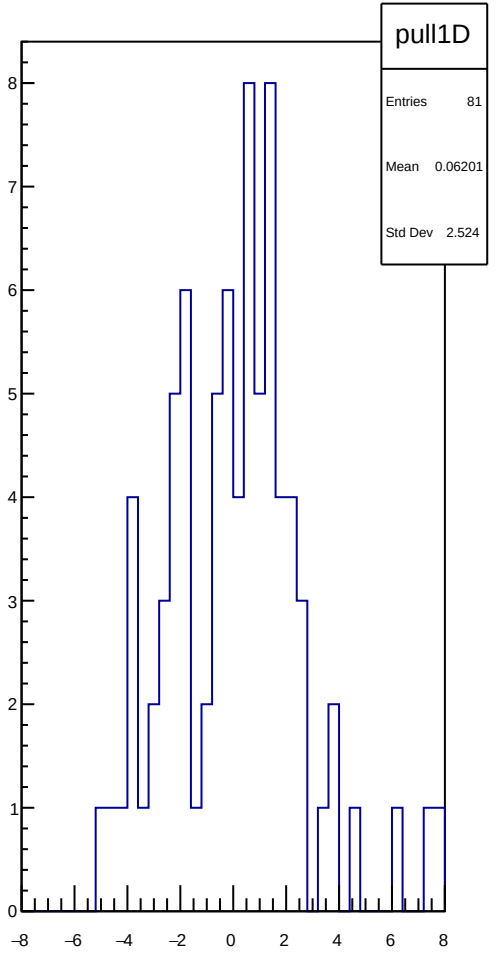

pull1D
Entries 81
Mean 0.08554
Std Dev 3.707

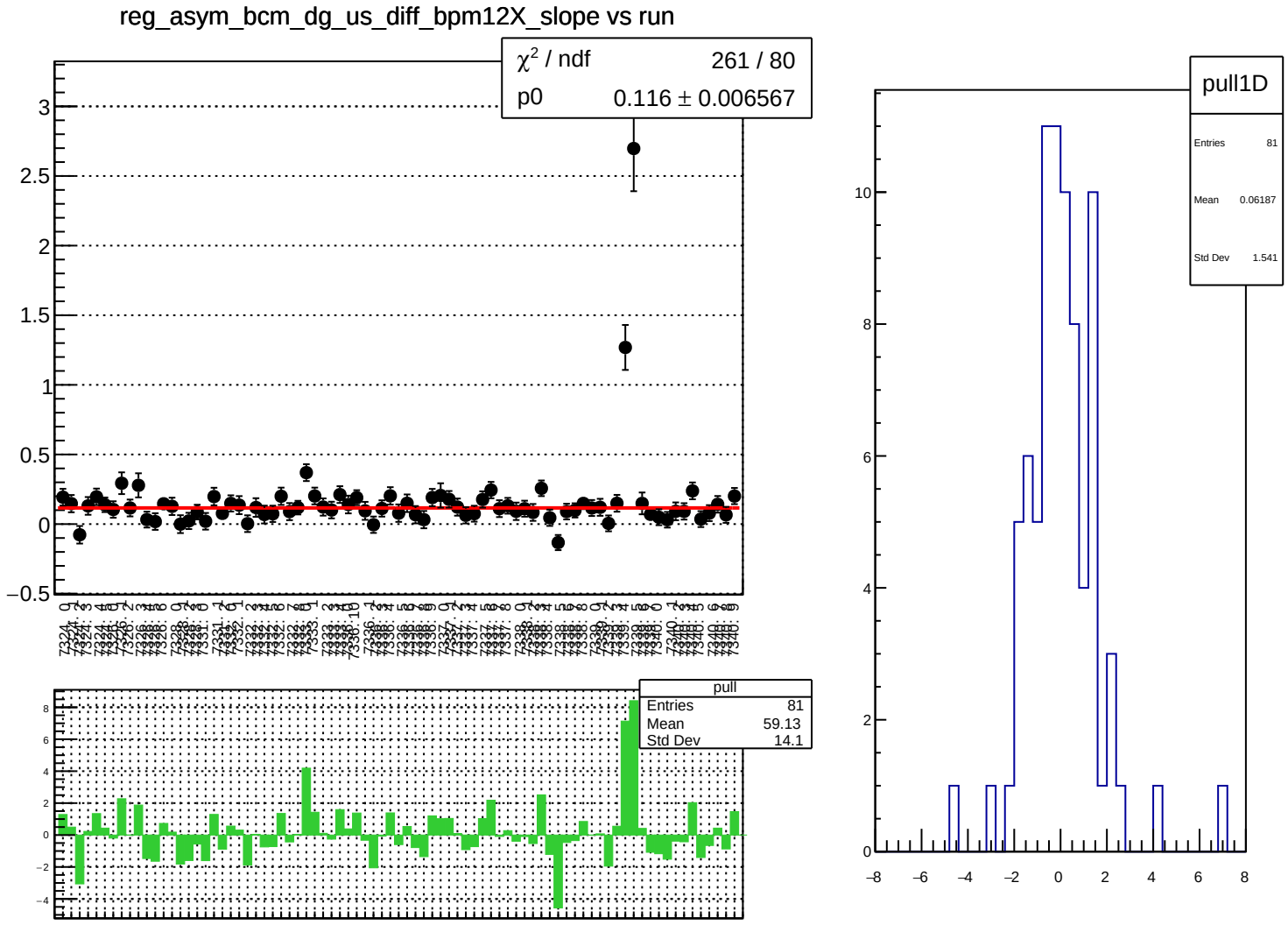

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 482.1 / 80
p0 −1.997 ± 0.127
pull
Entries 81
Mean 372
Std Dev 341.4
pull1D
Entries 81
Mean −0.08315
Std Dev 2.438

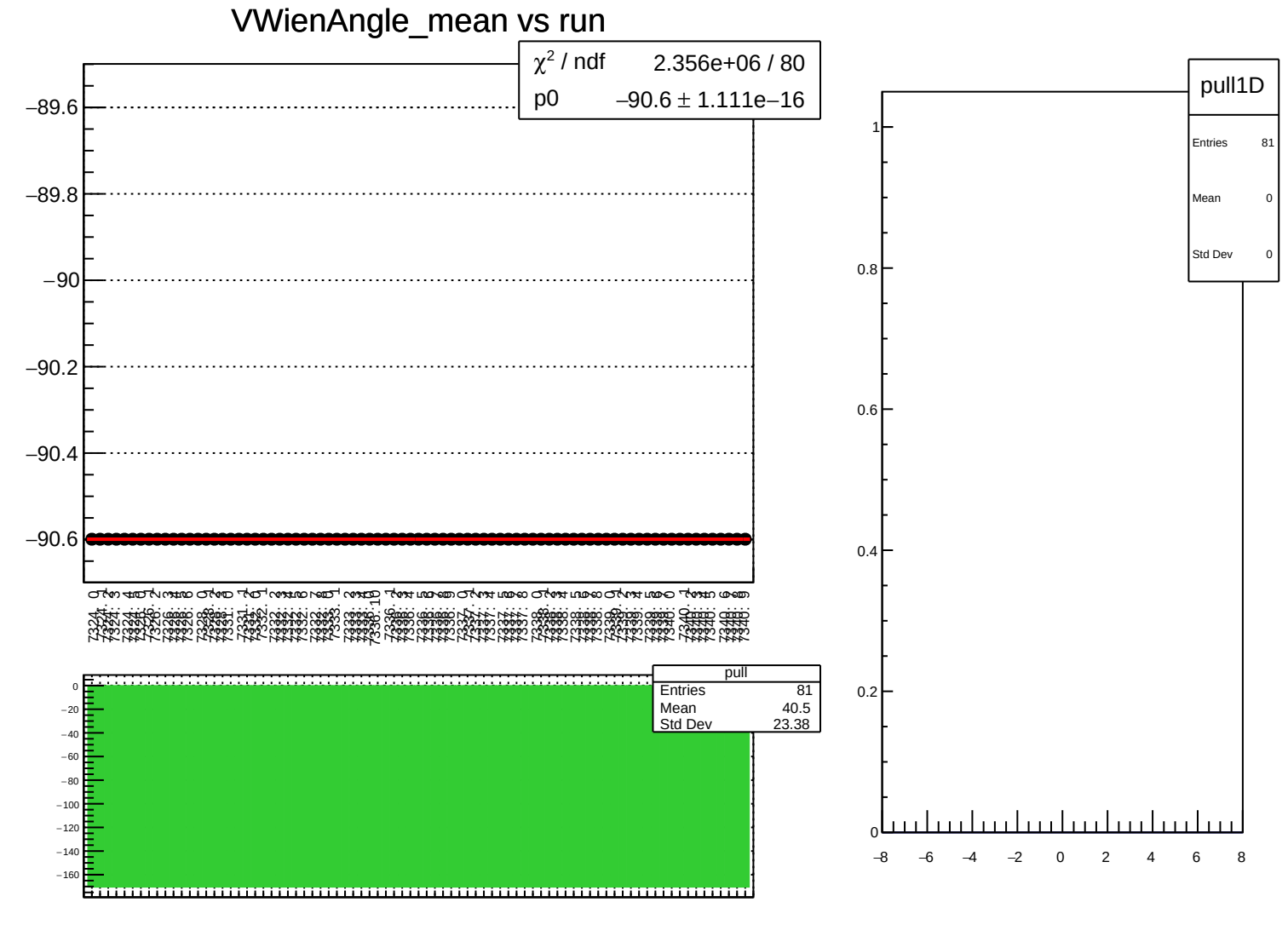

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 4145 / 80
p0 13.88 ± 0.1382
250
200
150
100
50
pull
Entries 81
Mean 18.76
Std Dev 36.2
40
30
20
10
0

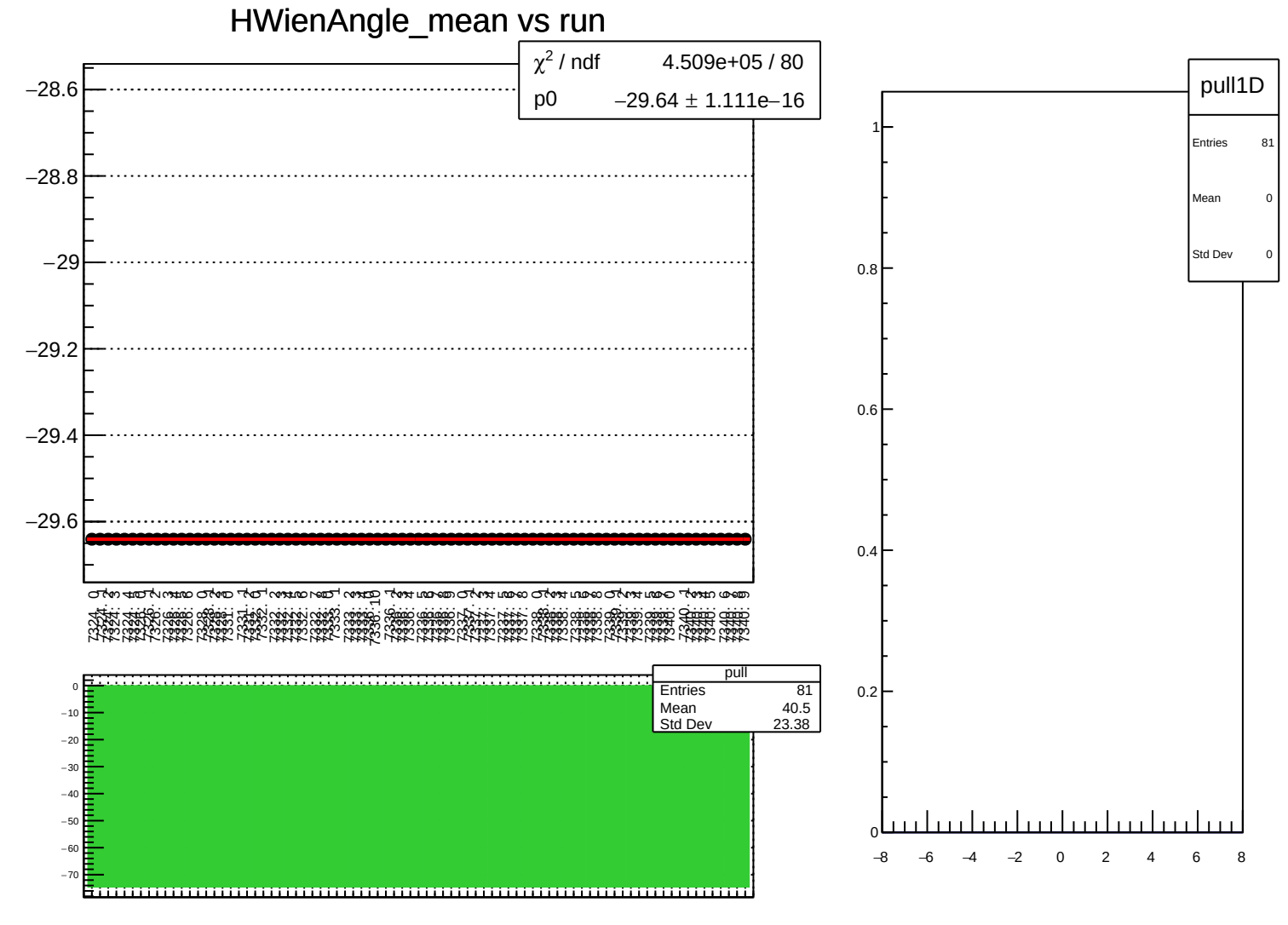

pull1D
Entries 81
Mean −0.07586
Std Dev 3.715
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

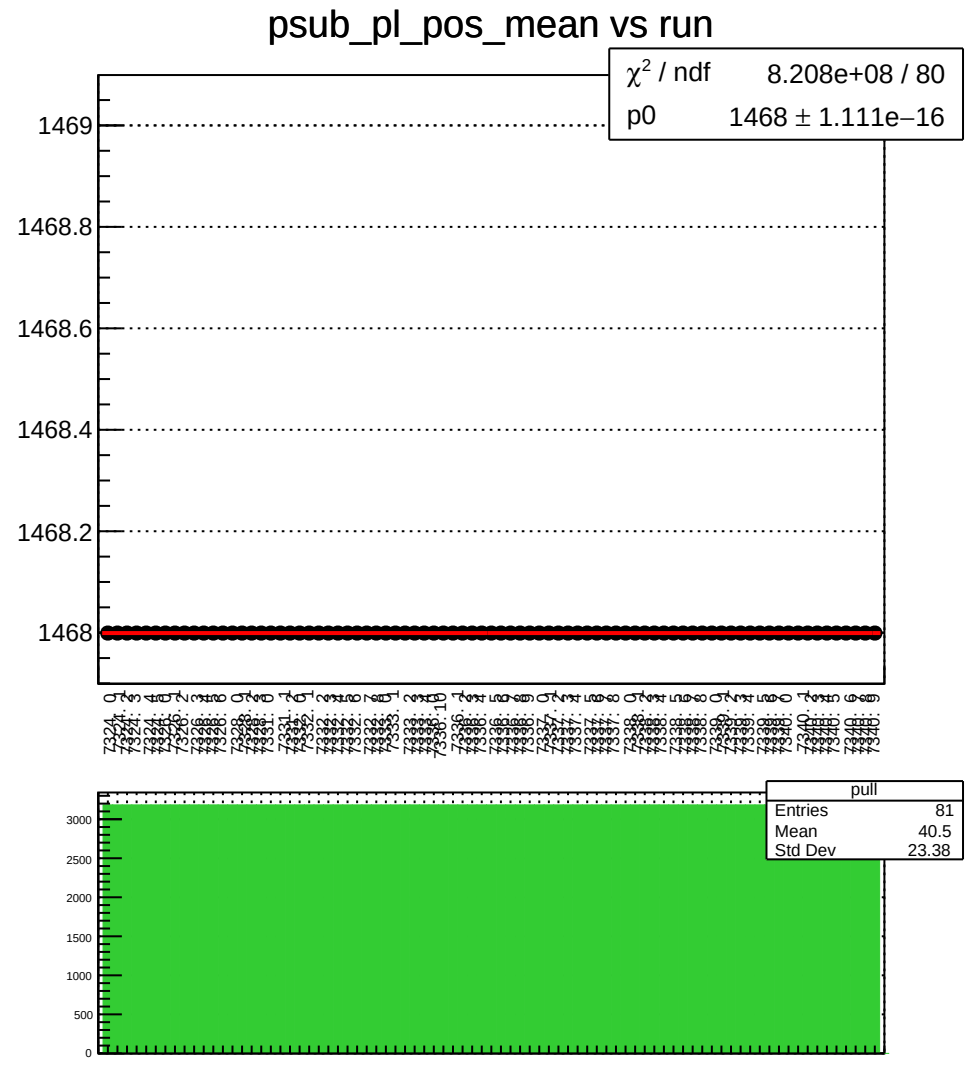

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 516.1 / 80
p0 1.176 ± 0.1337
pull
Entries 81
Mean 516.9
Std Dev 485.9

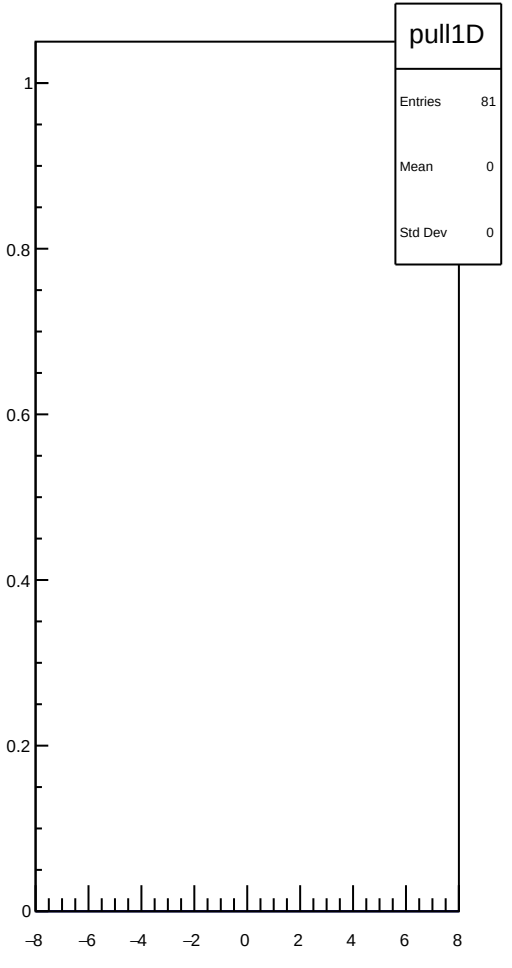

pull1D
Entries 81
Mean 0.06201
Std Dev 2.524

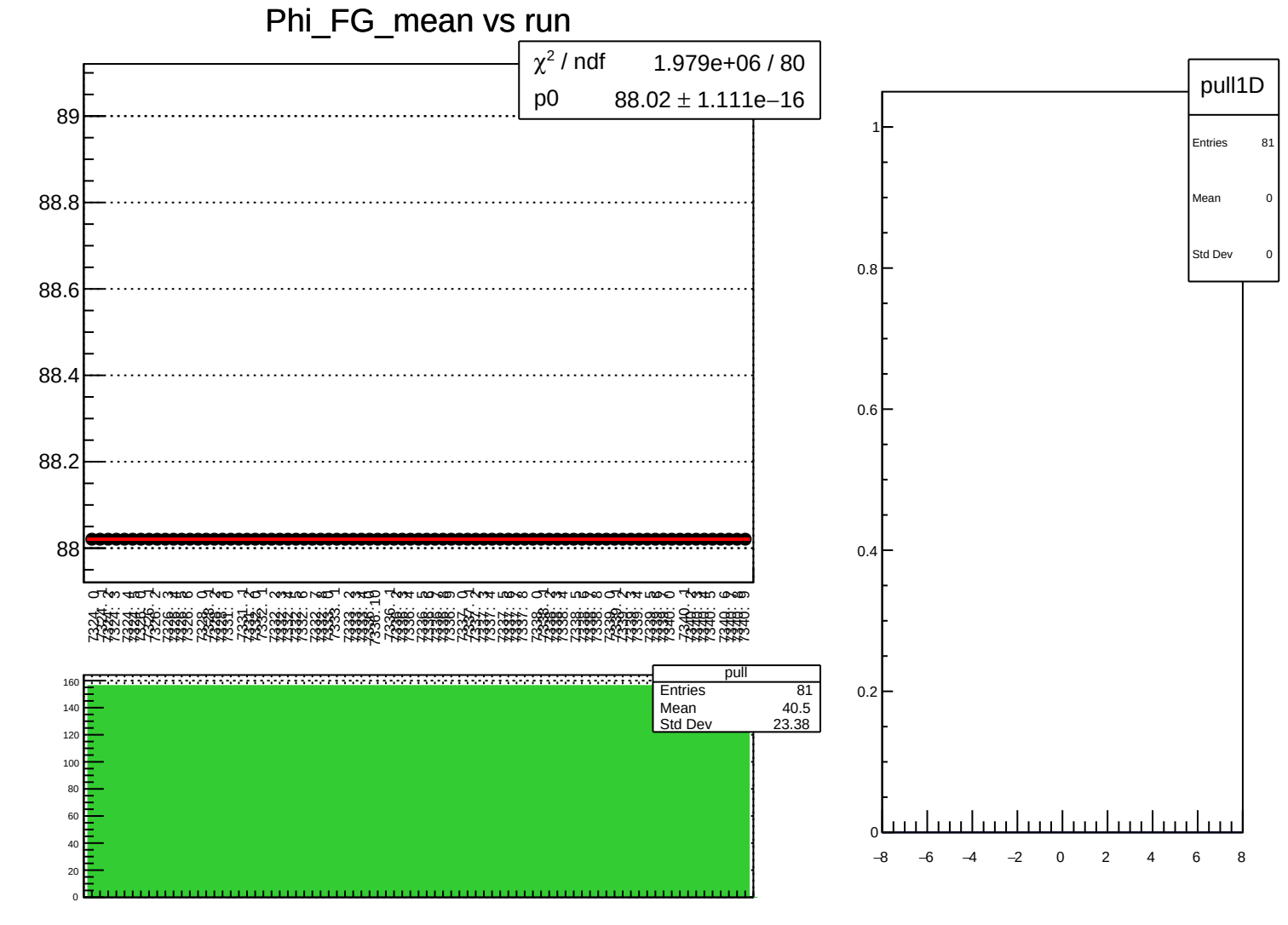

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 261 / 80
p0 0.116 ± 0.006567
pull
Entries 81
Mean 59.13
Std Dev 14.1
pull1D
Entries 81
Mean 0.06187
Std Dev 1.541

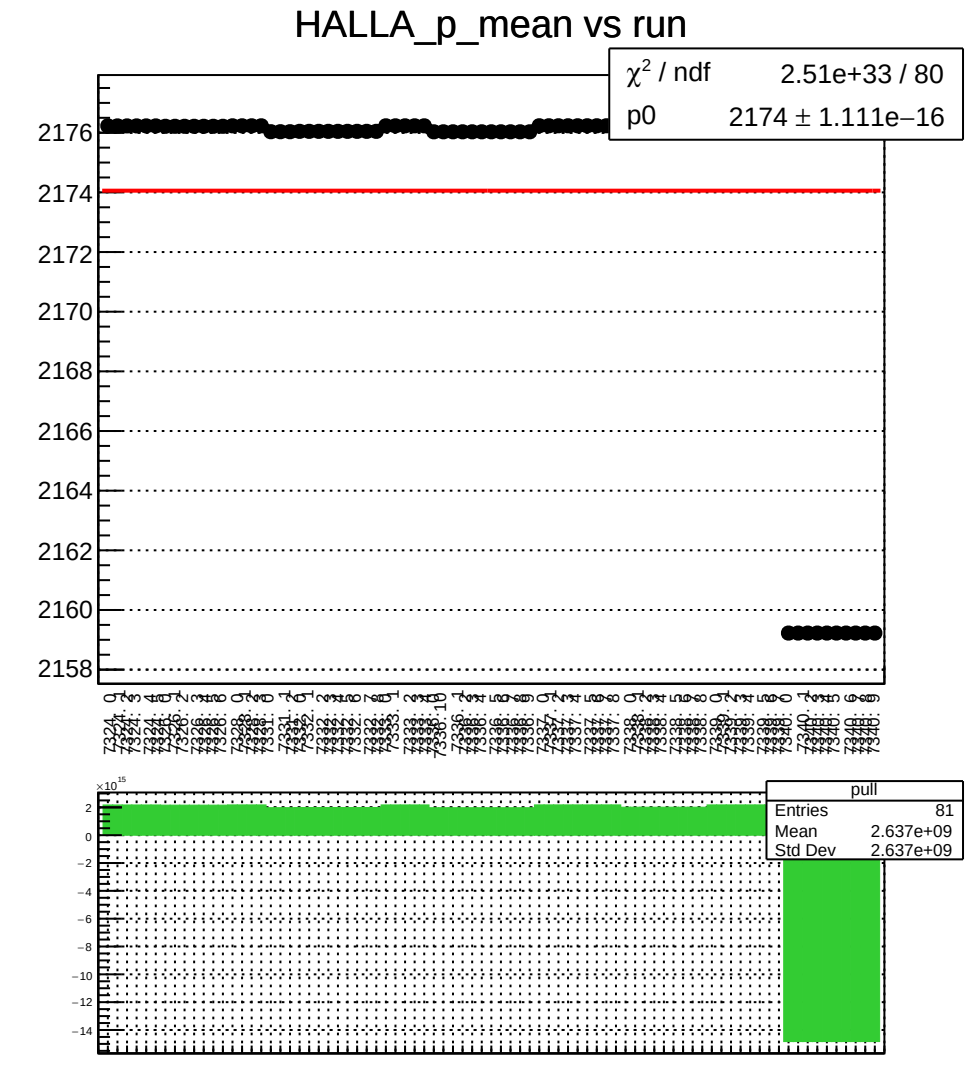

VWienAngle_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

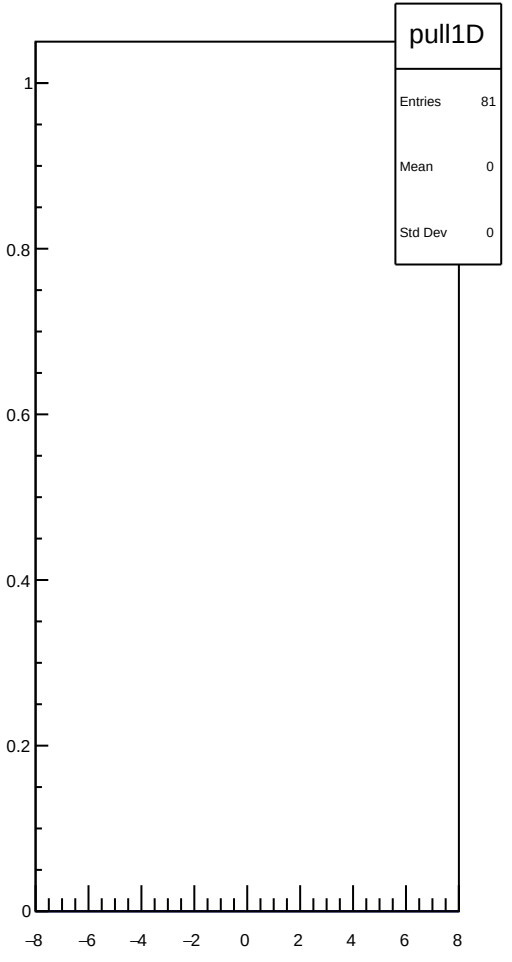

HWienAngle_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

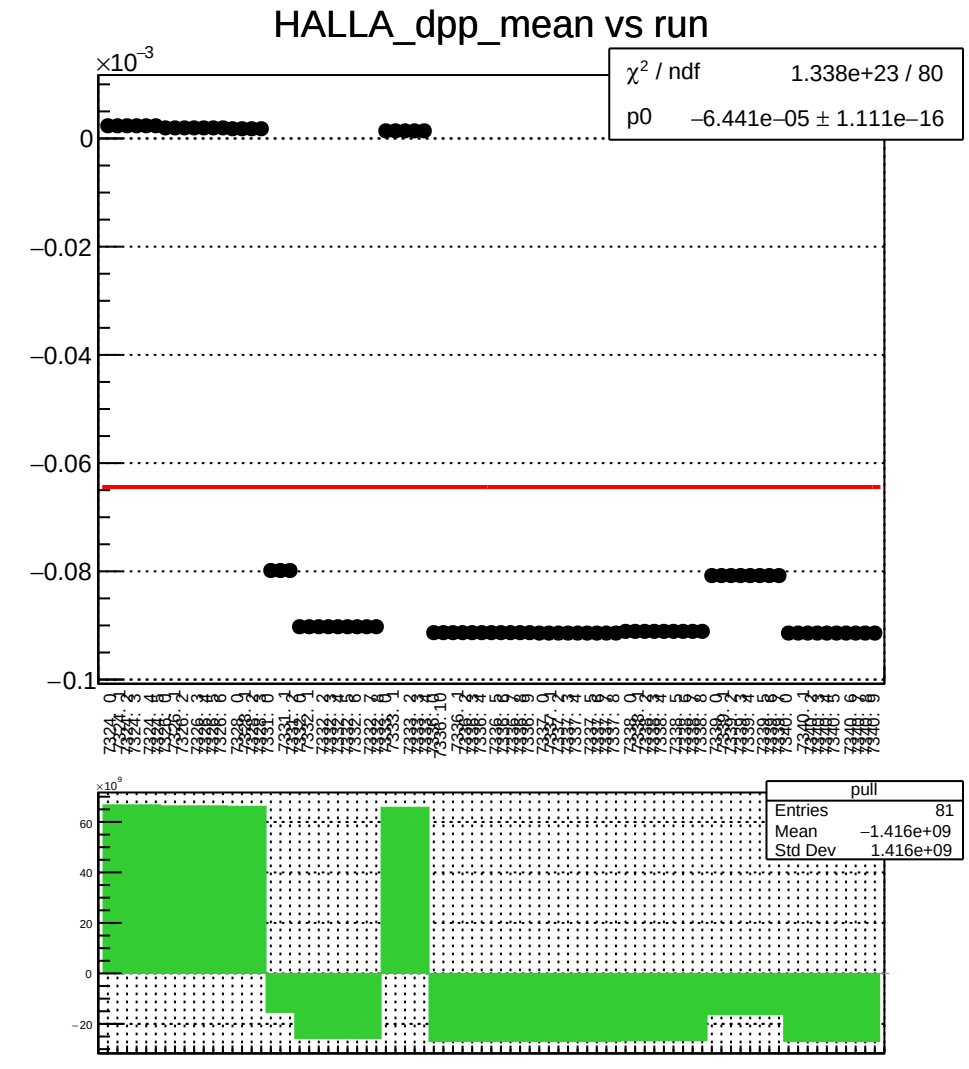

psub_pl_pos_mean vs run
χ² / ndf 8.208e+08 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
3000
2500
2000
1500
1000
500
0

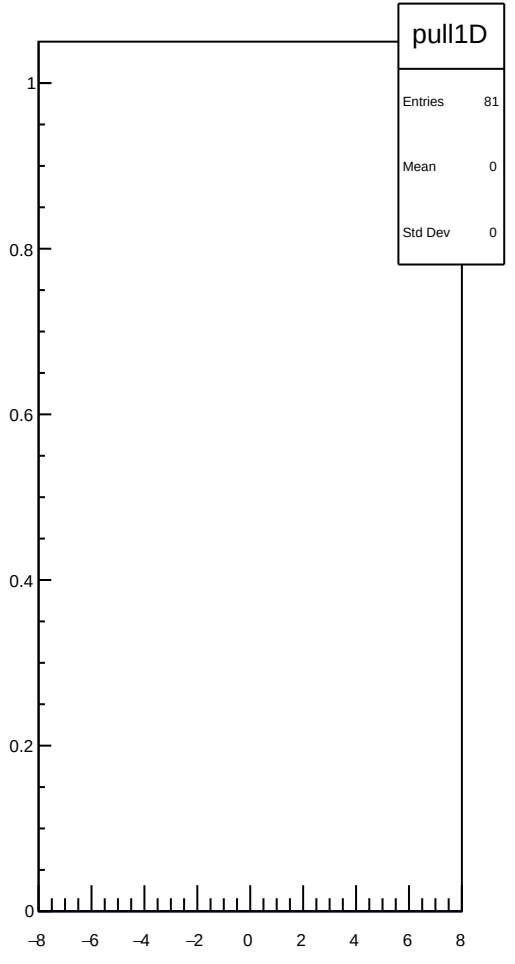

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

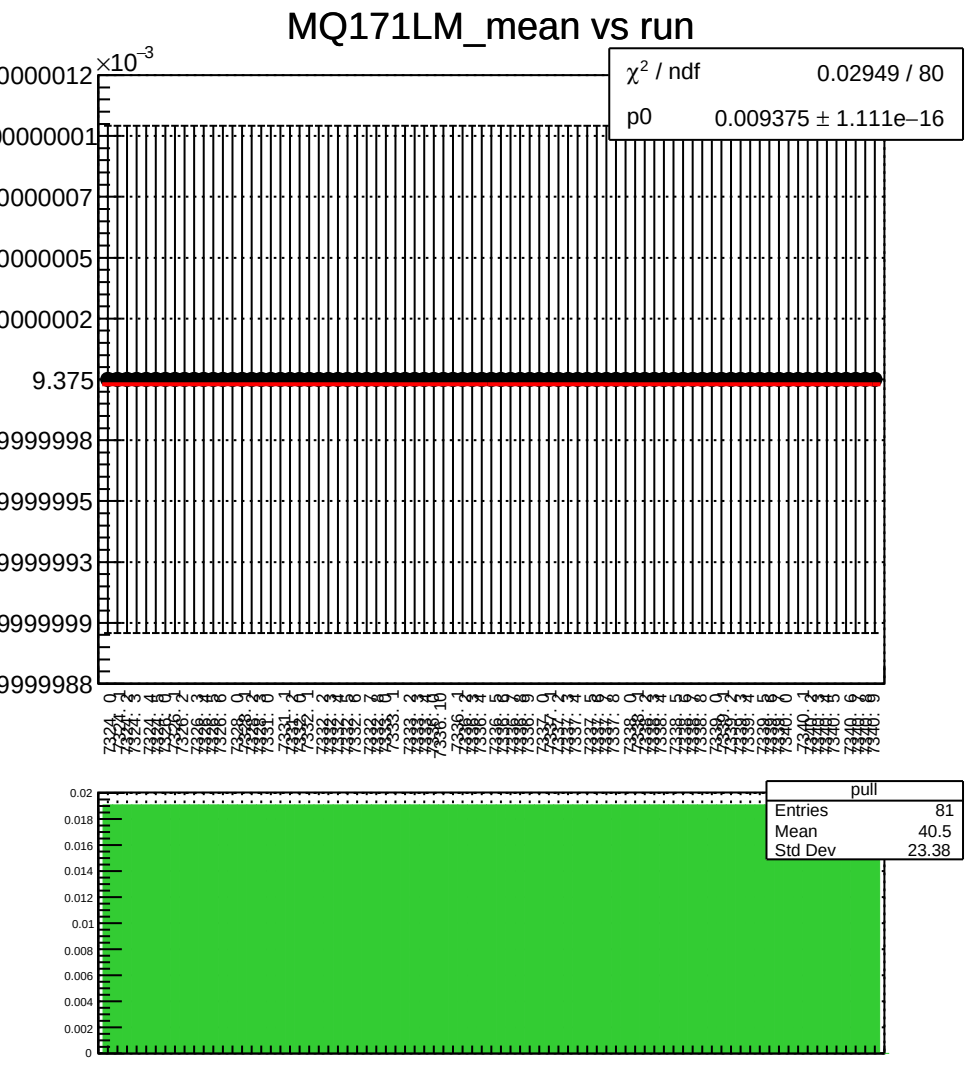

Phi_FG_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

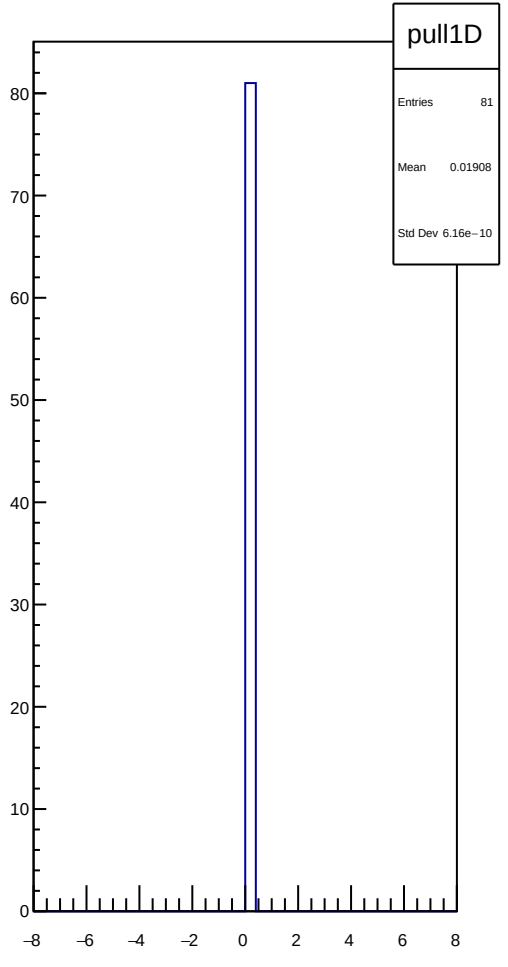

HALLA_p_mean vs run
χ² / ndf 2.51e+33 / 80
p0 2174 ± 1.111e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 81
Mean 2.637e+09
Std Dev 2.637e+09
×10¹⁵
2
0
−2
−4
−6
−8
−10
−12
−14

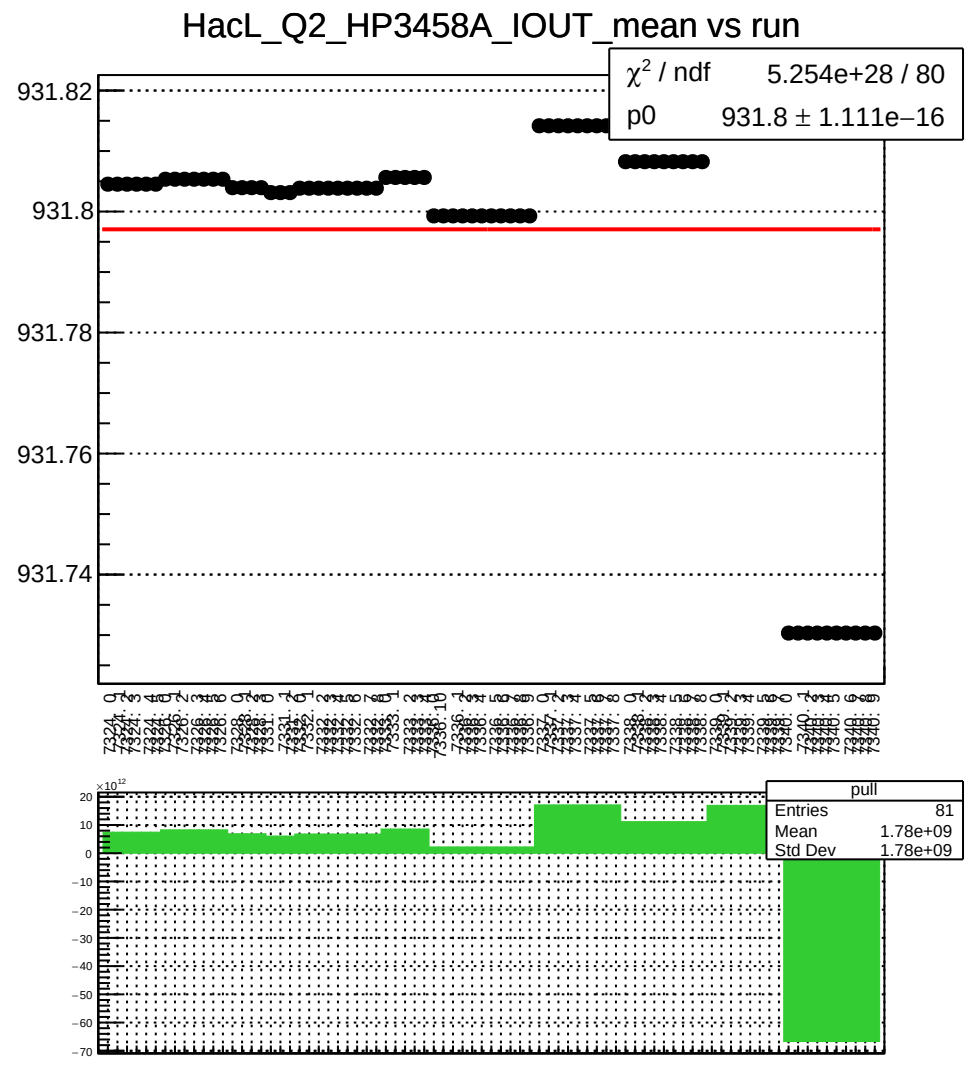

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

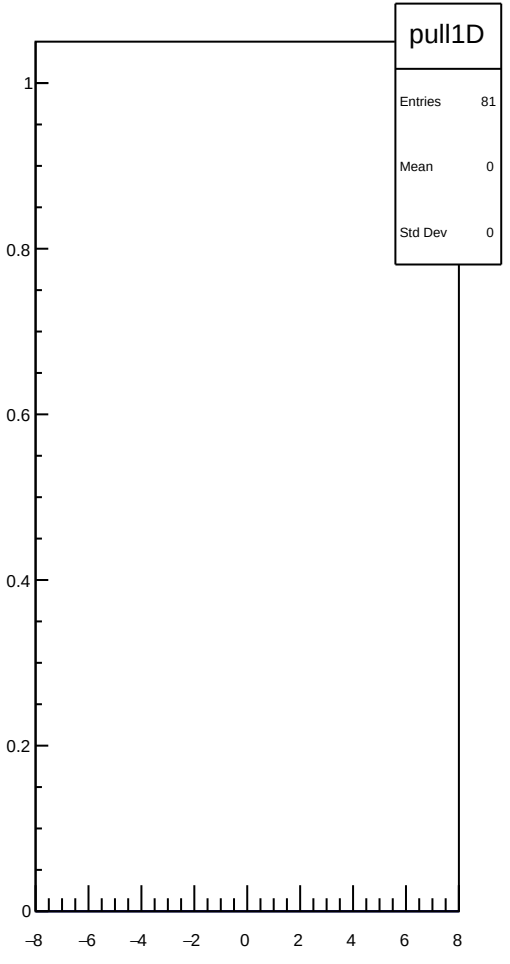

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 1.338e+23 / 80
p0 −6.441e−05 ± 1.111e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
60
40
20
0
−20
pull
Entries 81
Mean −1.416e+09
Std Dev 1.416e+09

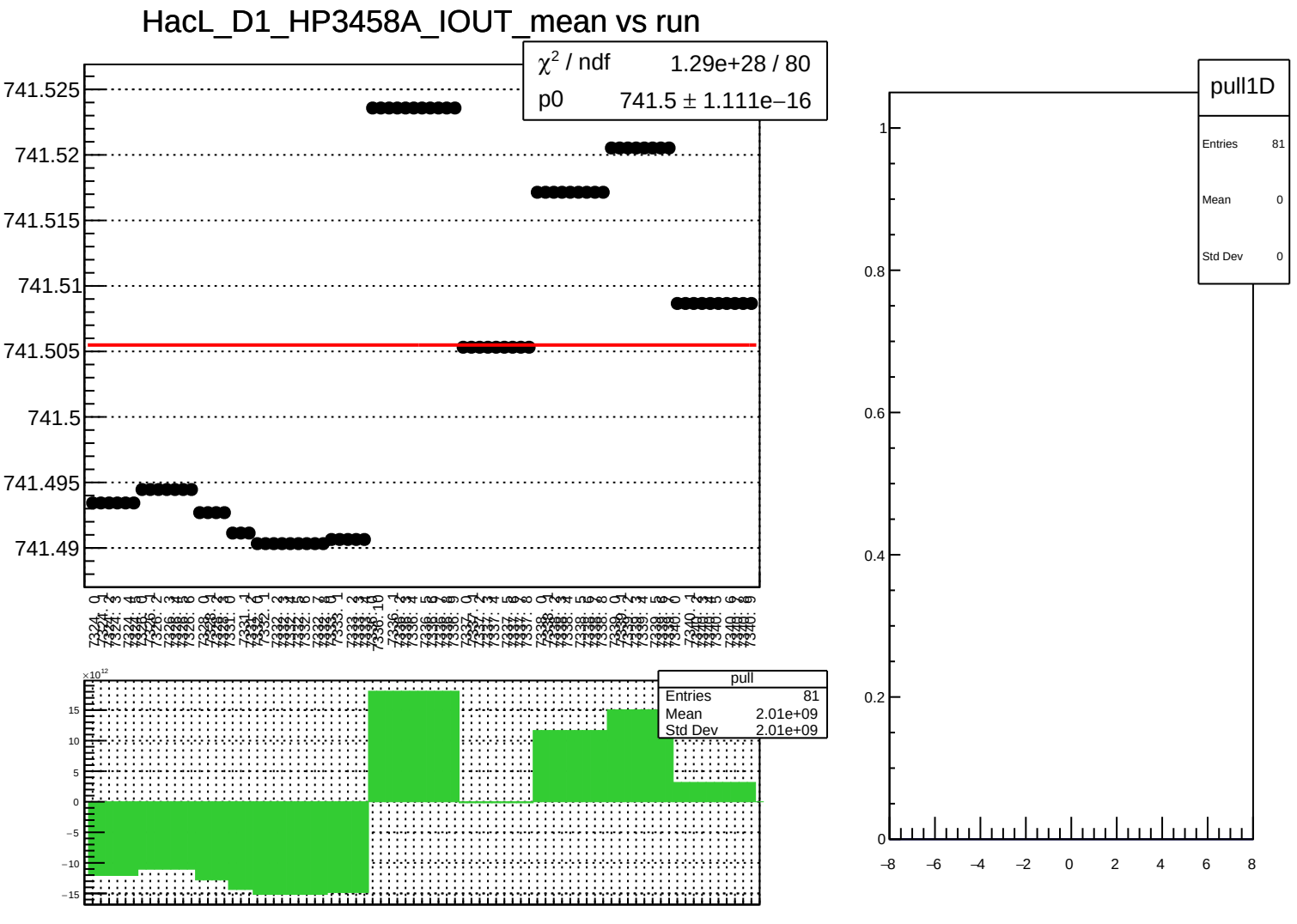

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

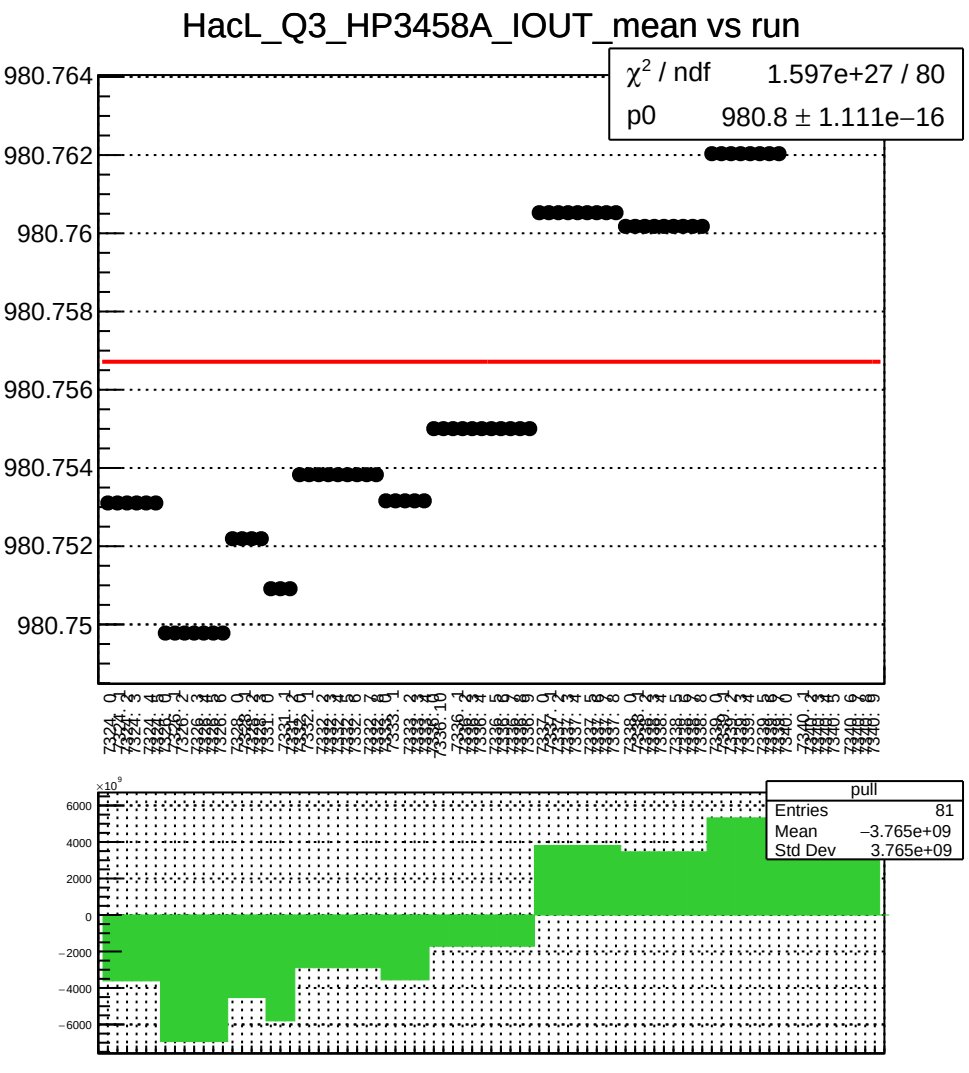

MQ171LM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

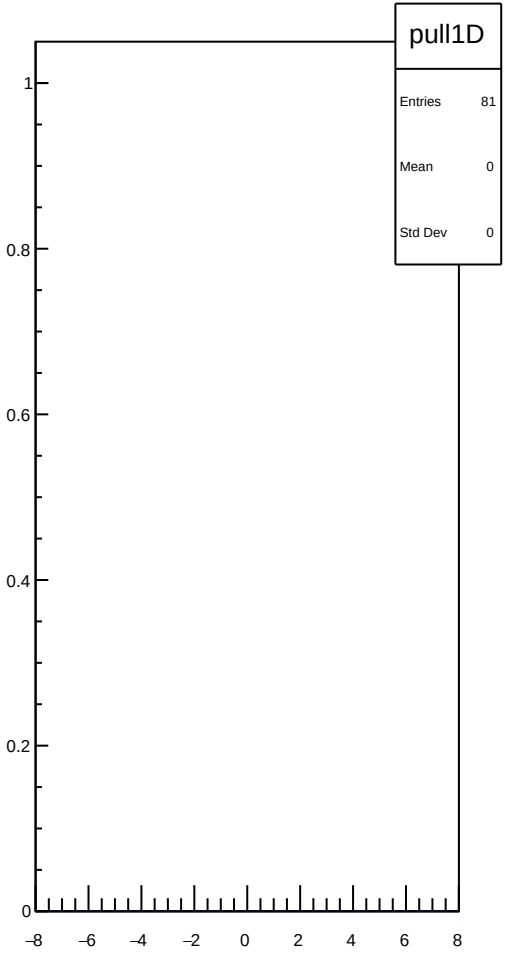

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

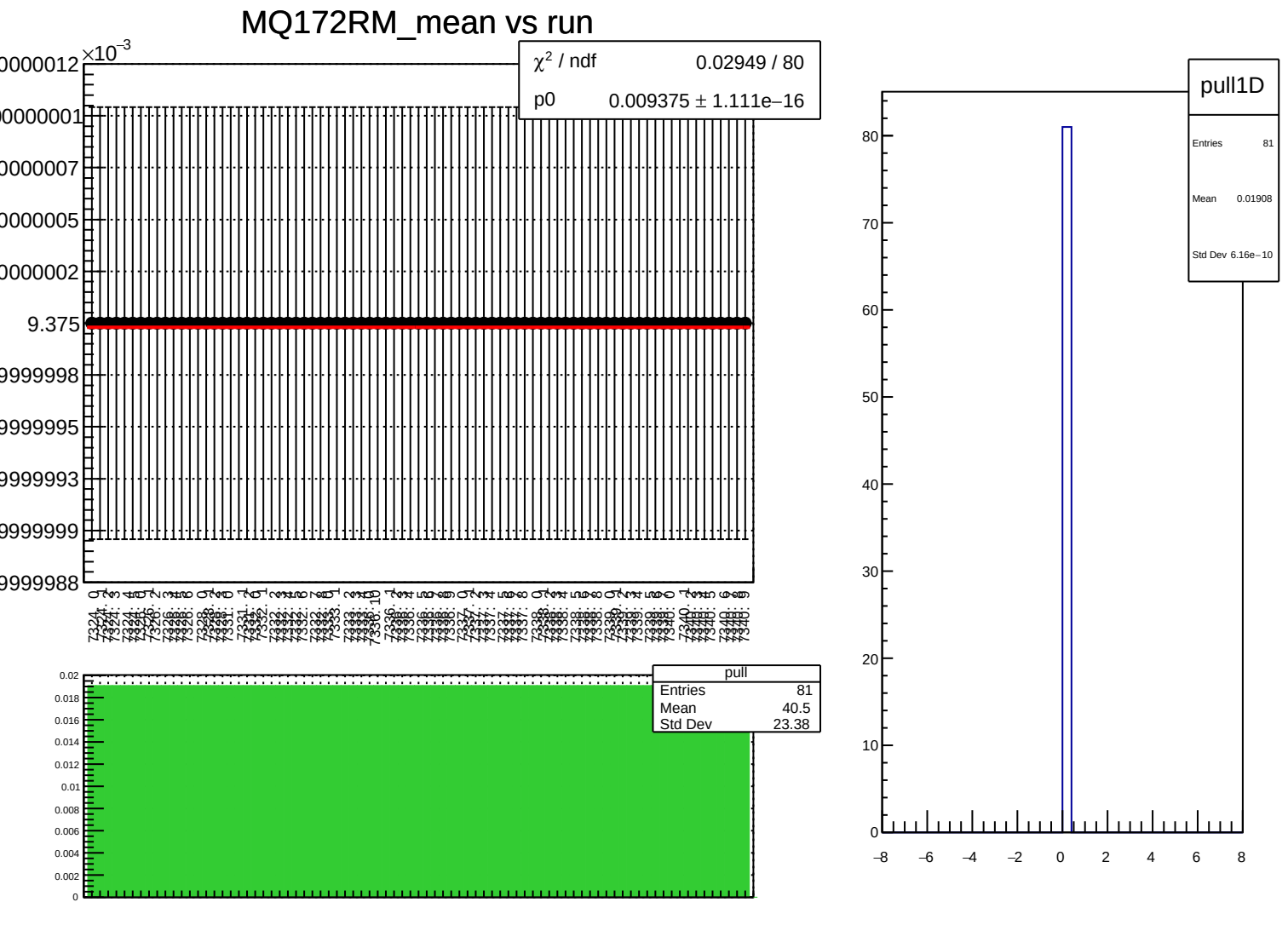

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 5.254e+28 / 80
p0 931.8 ± 1.111e−16
931.82
931.8
931.78
931.76
931.74
pull
Entries 81
Mean 1.78e+09
Std Dev 1.78e+09
×10¹²
20
10
0
−10
−20
−30
−40
−50
−60
−70

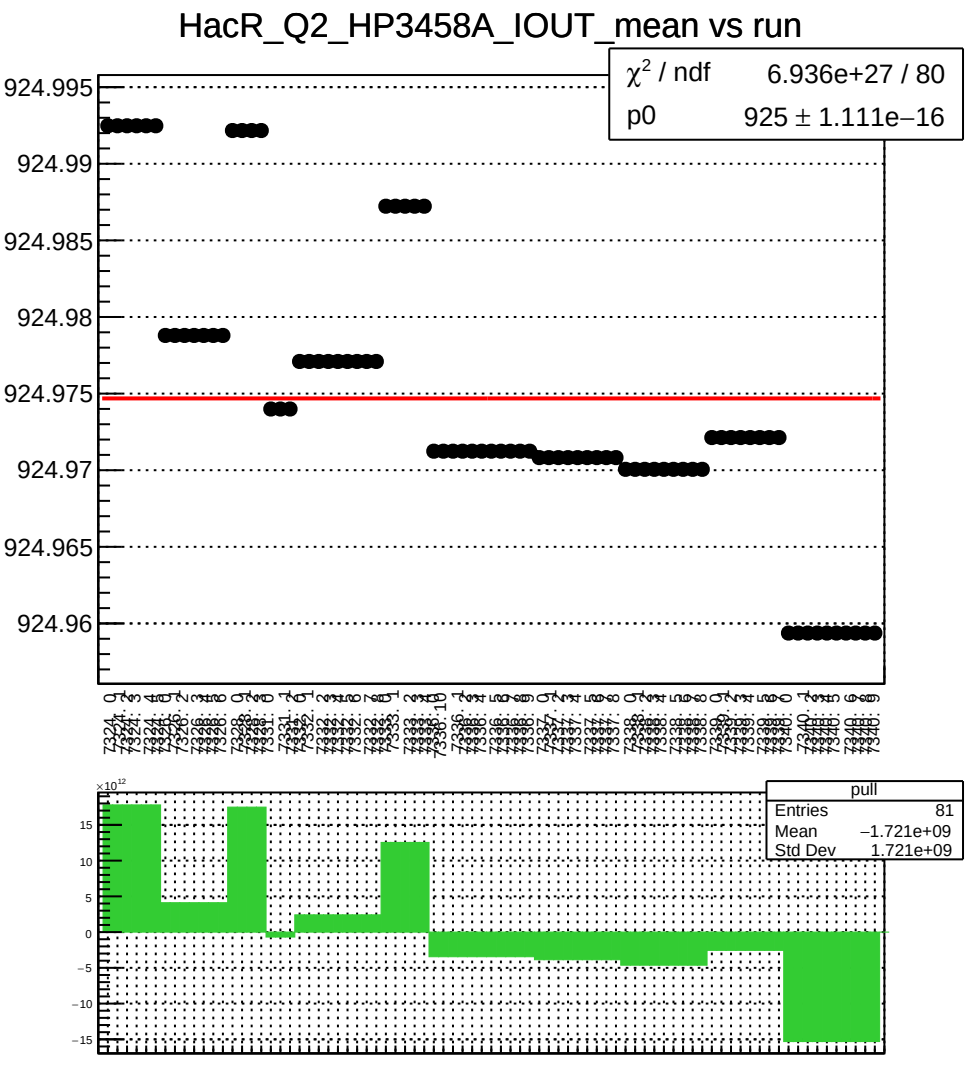

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

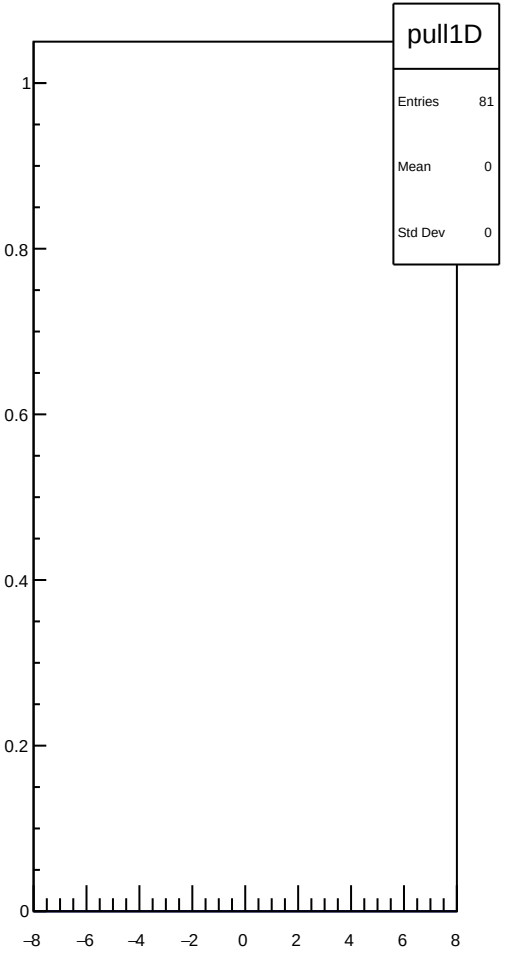

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 1.29e+28 / 80
p0 741.5 ± 1.111e−16
741.525
741.52
741.515
741.51
741.505
741.5
741.495
741.49
pull
Entries 81
Mean 2.01e+09
Std Dev 2.01e+09
×10¹²
15
10
5
0
−5
−10
−15
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

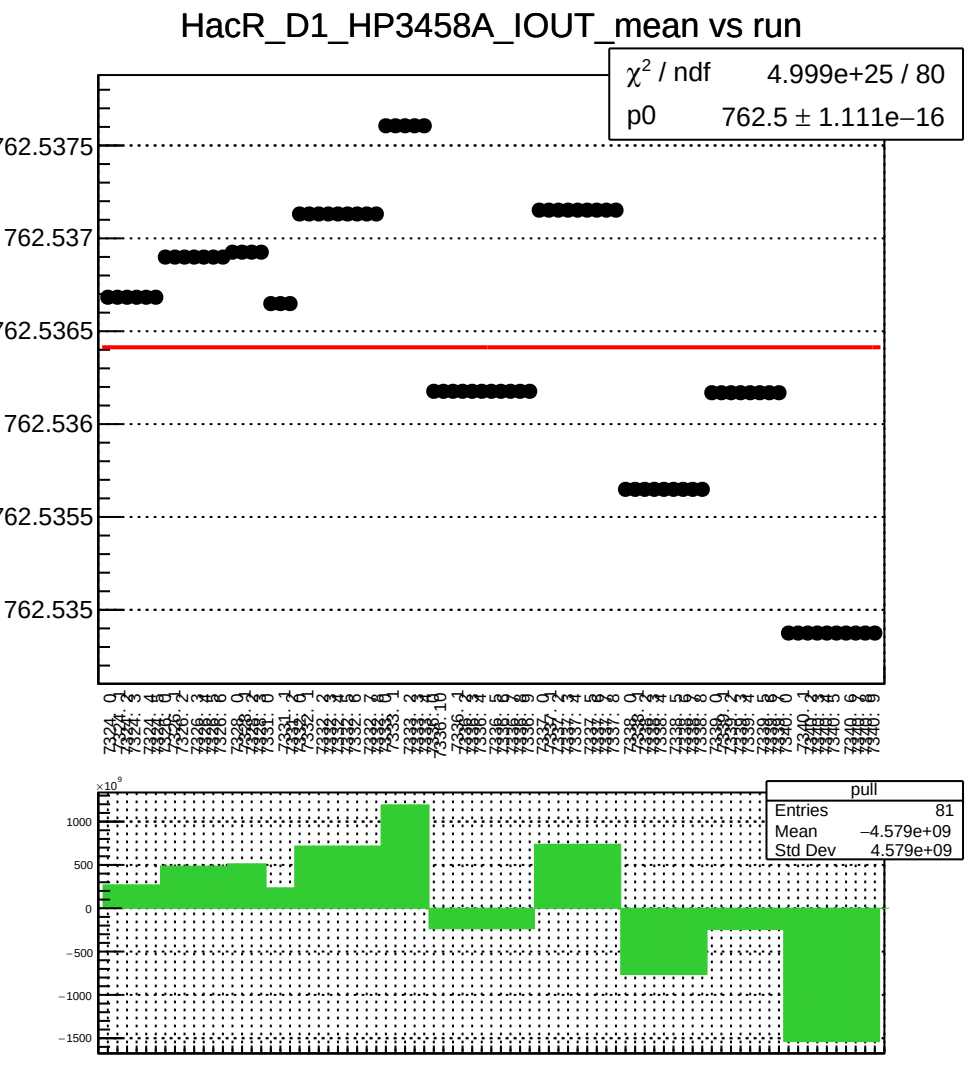

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.597e+27 / 80
p0 980.8 ± 1.111e−16
980.764
980.762
980.76
980.758
980.756
980.754
980.752
980.75
×10⁹
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −3.765e+09
Std Dev 3.765e+09

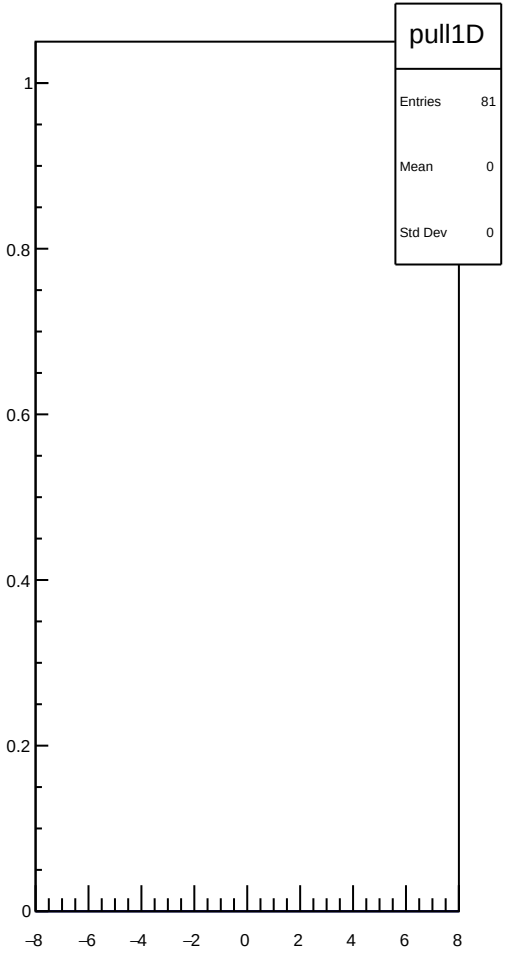

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

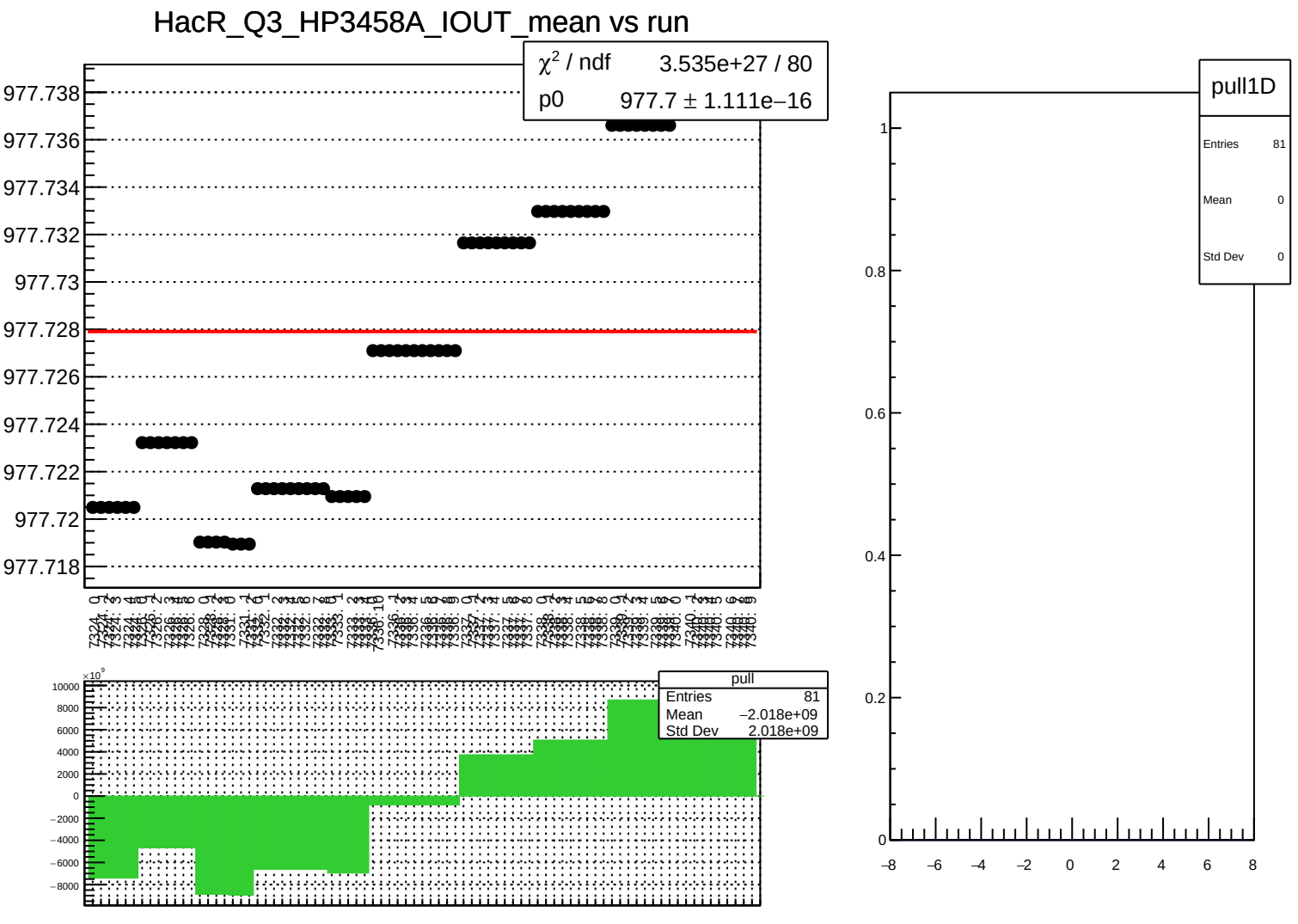

MQ172RM_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
pull
Entries 81
Mean 40.5
Std Dev 23.38
pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

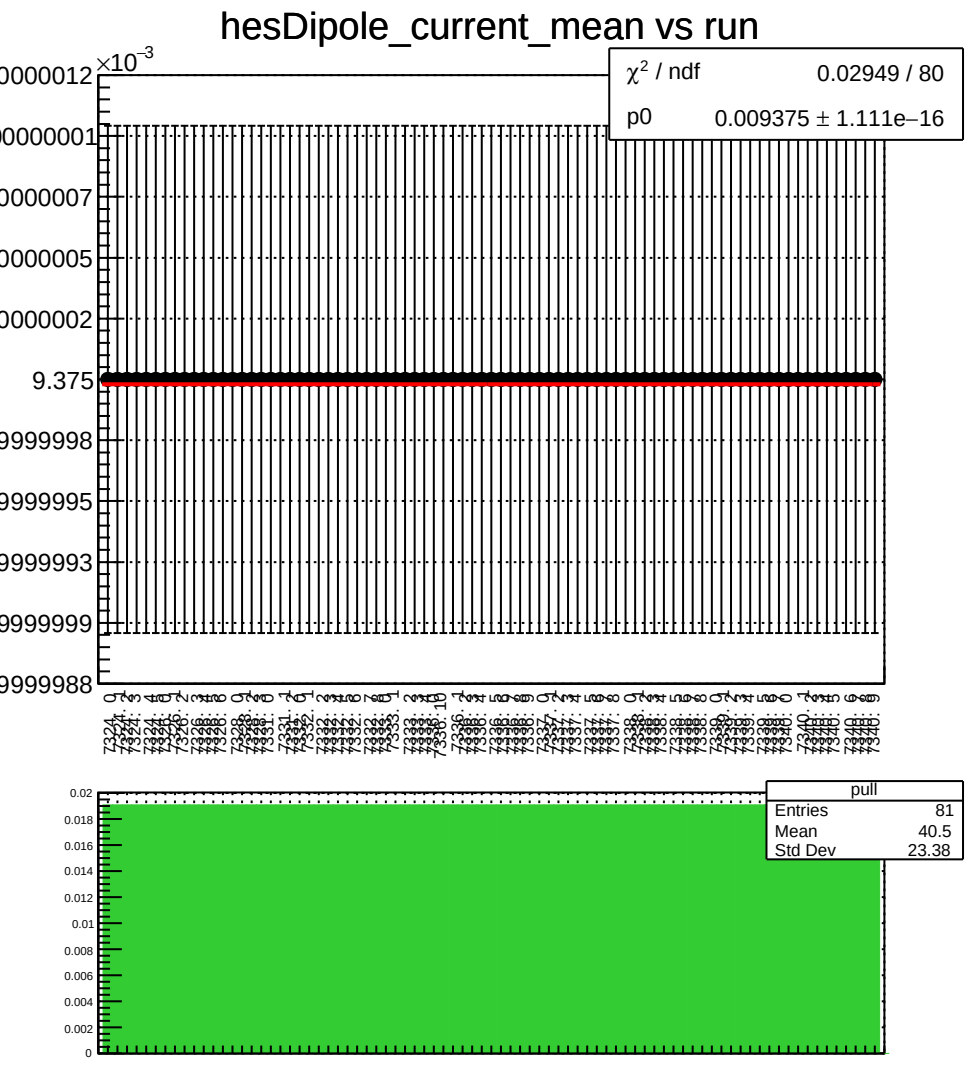

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 6.936e+27 / 80
p0 925 ± 1.111e−16
924.995
924.99
924.985
924.98
924.975
924.97
924.965
924.96
pull
Entries 81
Mean −1.721e+09
Std Dev 1.721e+09
×10¹²
15
10
5
0
−5
−10
−15

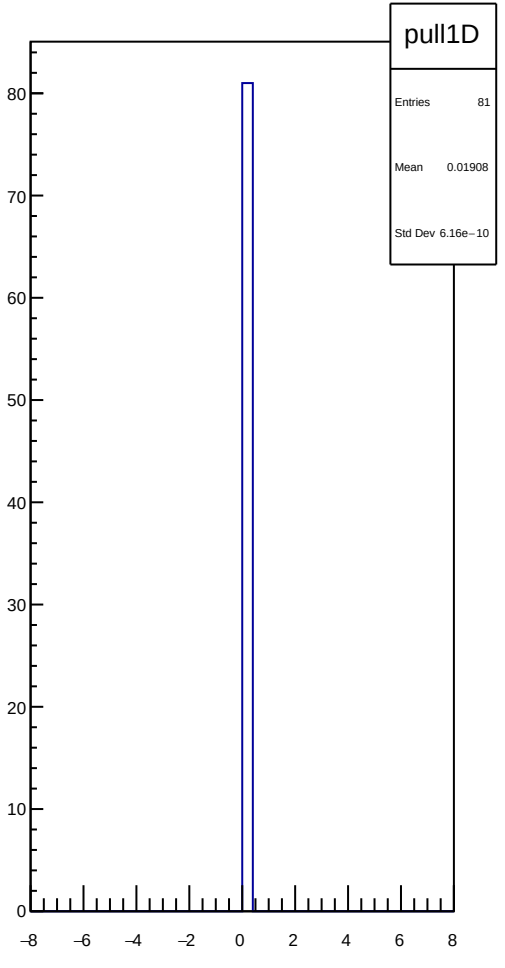

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

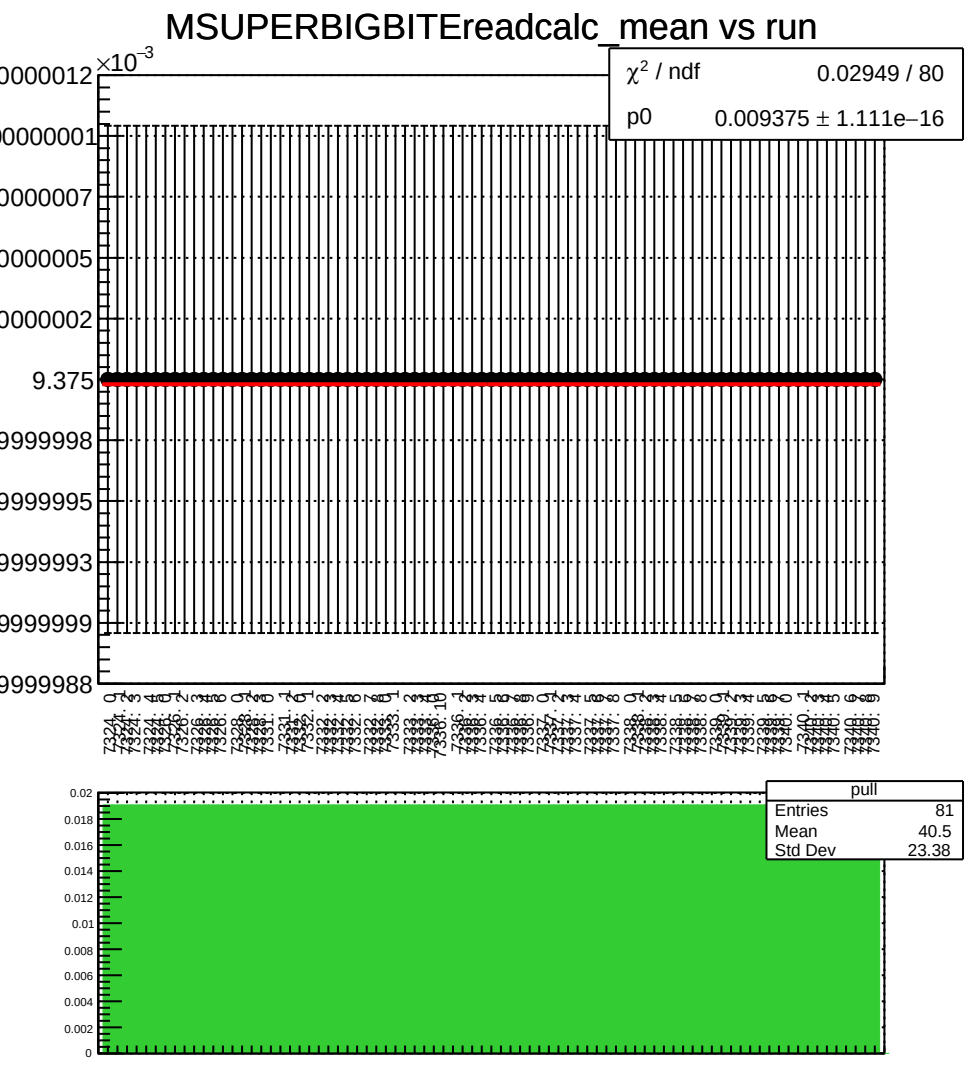

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.999e+25 / 80
p0 762.5 ± 1.111e−16
762.5375
762.537
762.5365
762.536
762.5355
762.535
pull
Entries 81
Mean −4.579e+09
Std Dev 4.579e+09
×10⁹
1000
500
0
−500
−1000
−1500

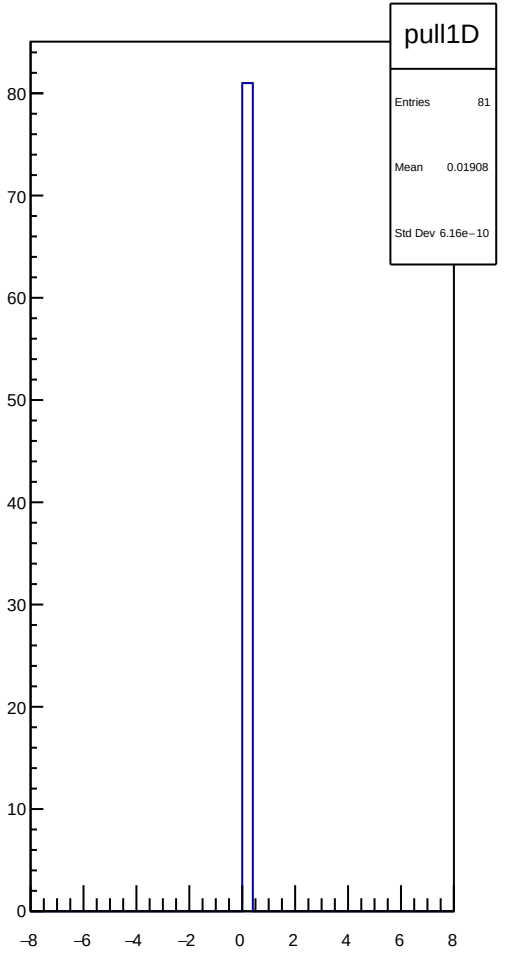

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

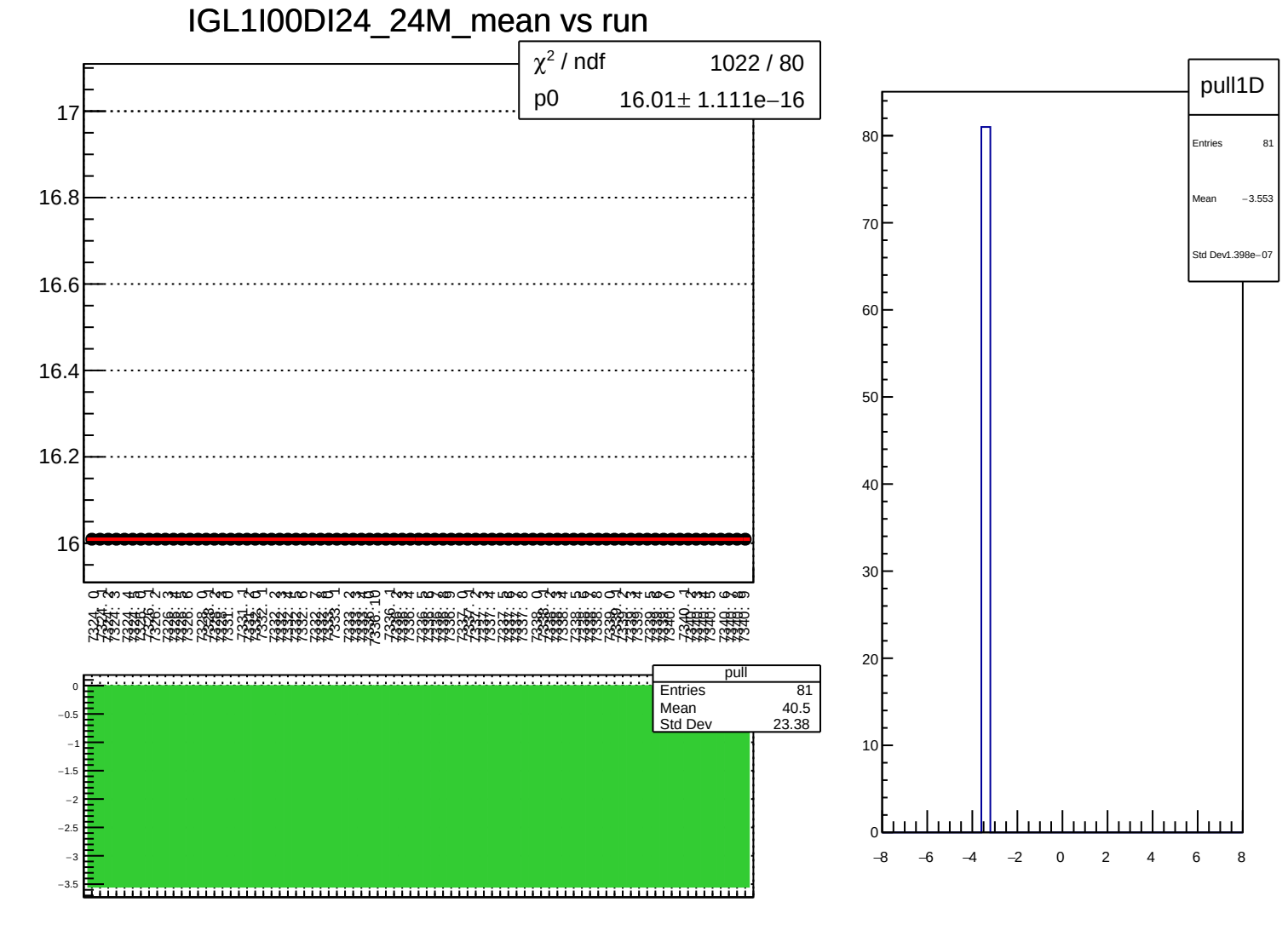

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 3.535e+27 / 80
p0 977.7 ± 1.111e−16
977.738
977.736
977.734
977.732
977.73
977.728
977.726
977.724
977.722
977.72
977.718
×10⁹
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean −2.018e+09
Std Dev 2.018e+09
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

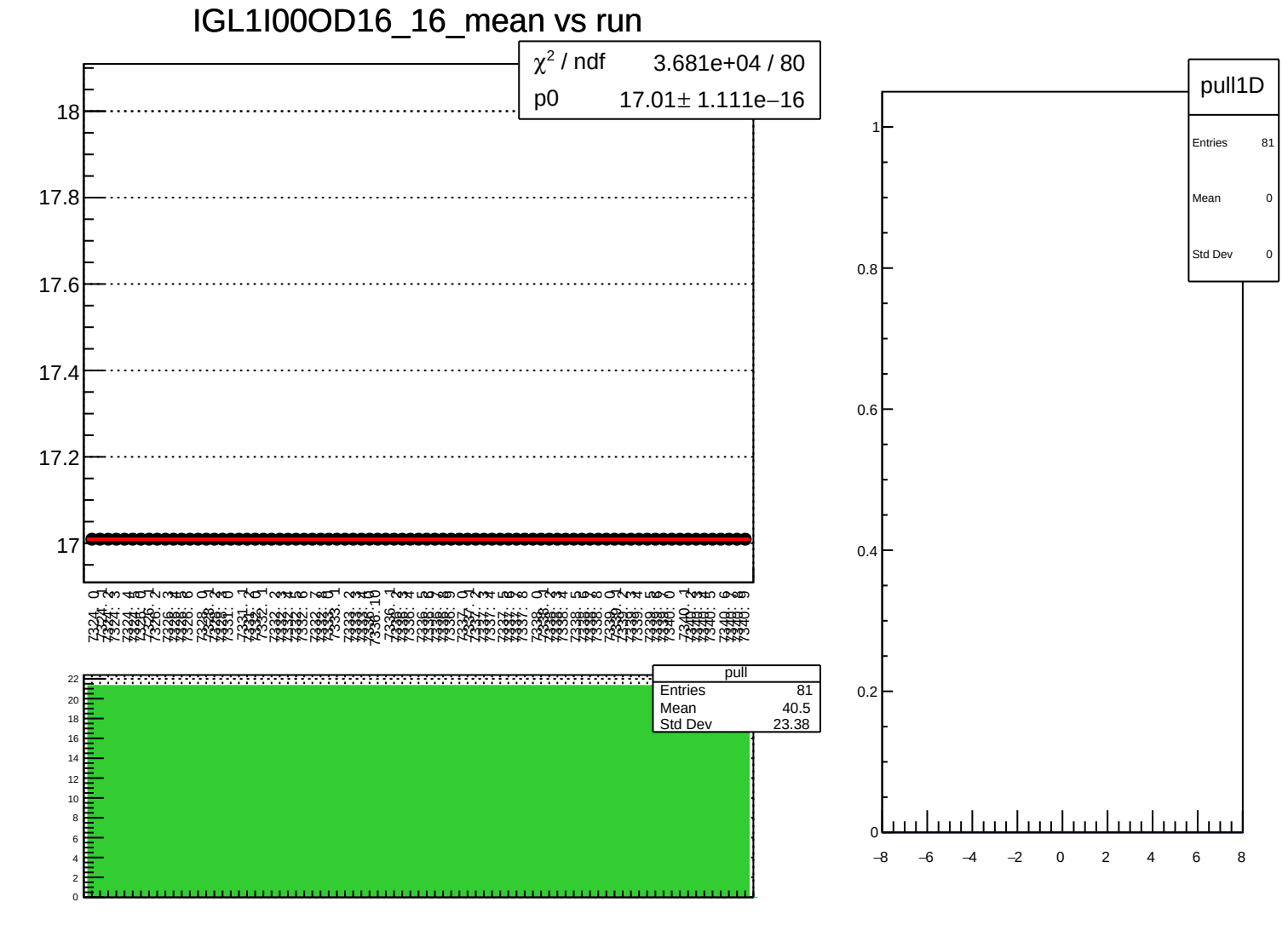

hesDipole_current_mean vs run
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
×10⁻³
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

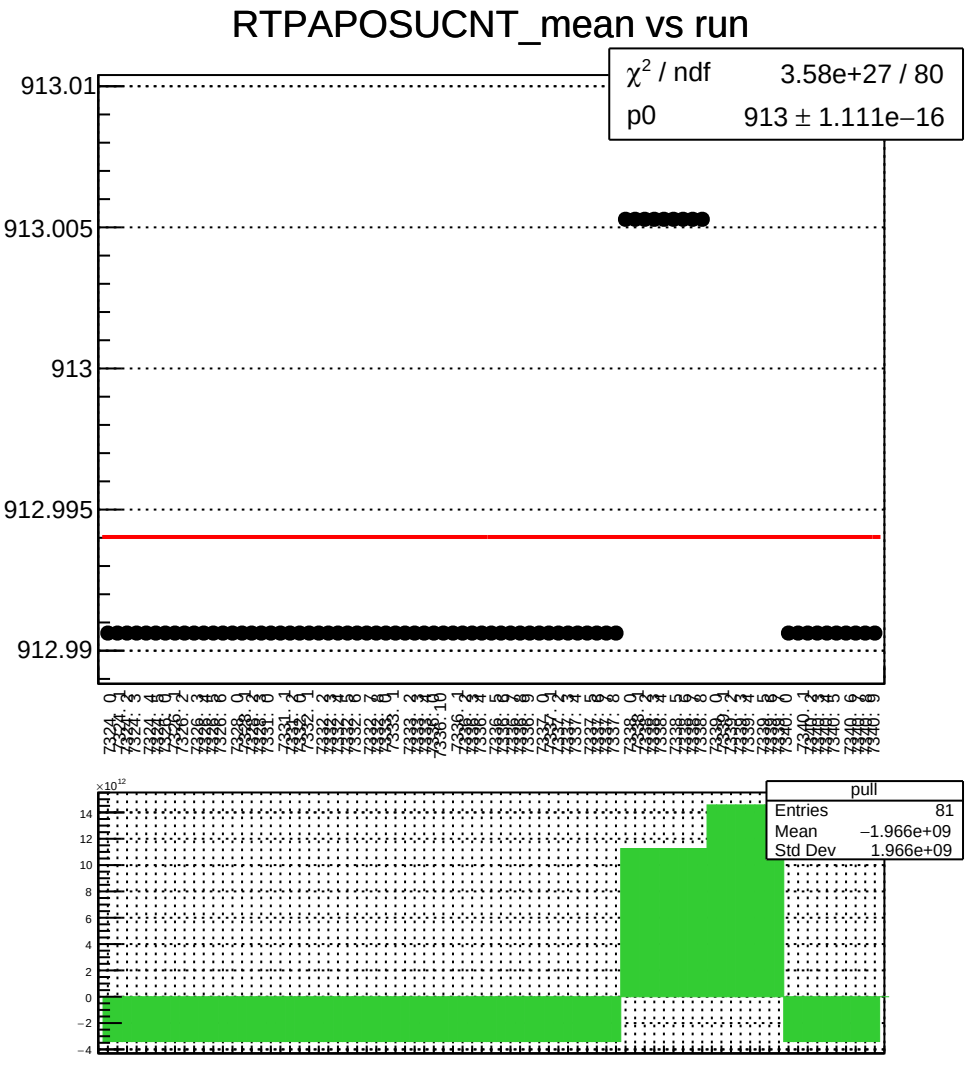

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

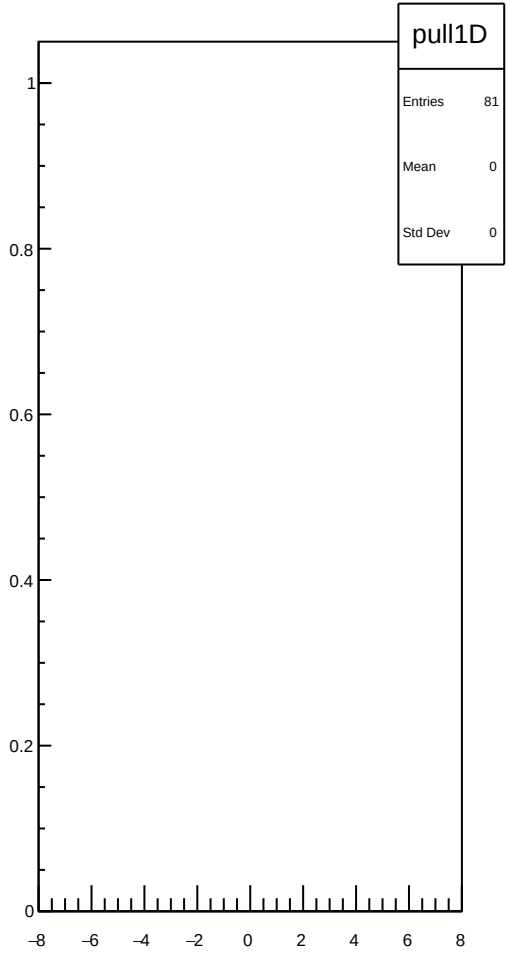

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.02949 / 80
p0 0.009375 ± 1.111e−16
9.375
pull
Entries 81
Mean 40.5
Std Dev 23.38

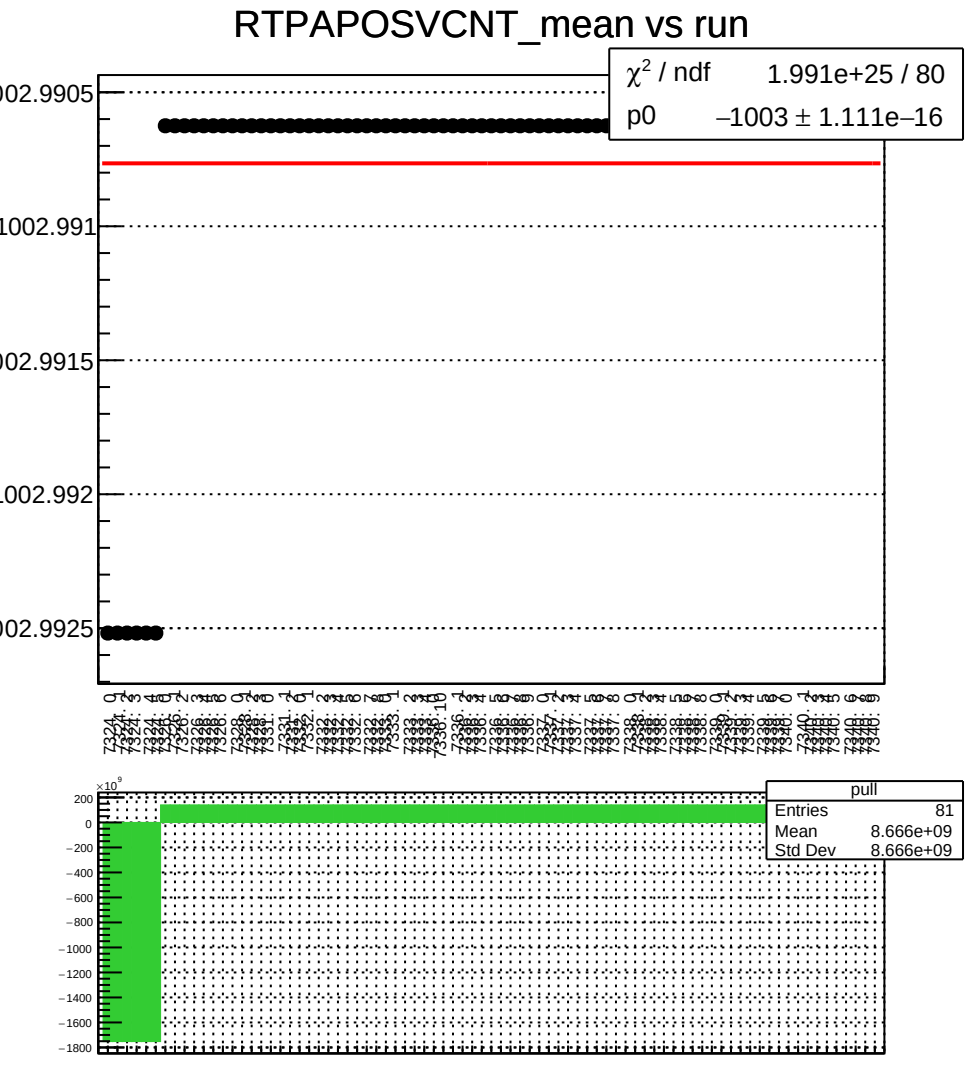

pull1D
Entries 81
Mean 0.01908
Std Dev 6.16e−10

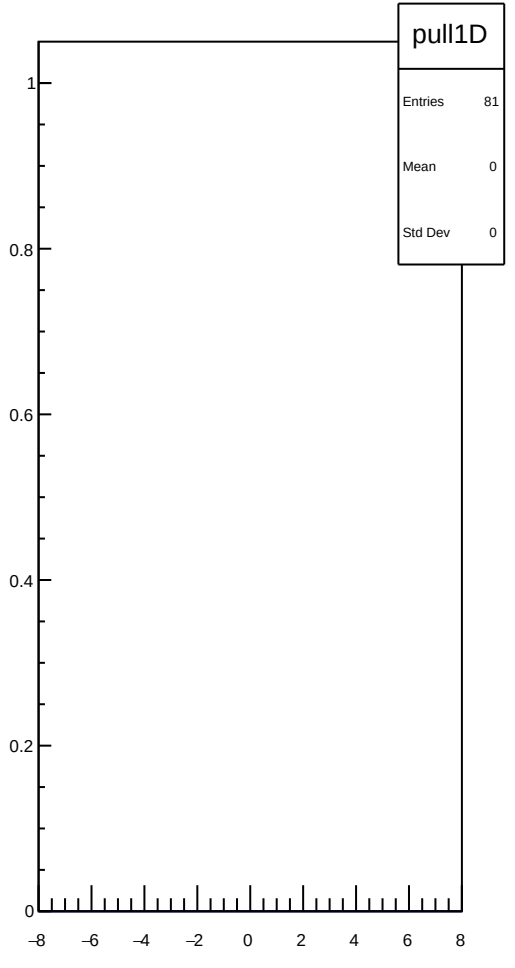

IGL1I00DI24_24M_mean vs run
χ² / ndf 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev 1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 3.681e+04 / 80
p0 17.01± 1.111e−16
pull
Entries 81
Mean 40.5
Std Dev 23.38
pull1D
Entries 81
Mean 0
Std Dev 0


RTPAPOSUCNT_mean vs run
χ² / ndf 3.58e+27 / 80
p0 913 ± 1.111e−16
913.01
913.005
913
912.995
912.99
pull
Entries 81
Mean −1.966e+09
Std Dev 1.966e+09
×10¹²
14
12
10
8
6
4
2
0
−2
−4


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
χ^2 / ndf 1.991e+25 / 80
p0 −1003 ± 1.111e−16
002.9905
1002.991
002.9915
1002.992
002.9925
pull
Entries 81
Mean 8.666e+09
Std Dev 8.666e+09
×10^9
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800


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