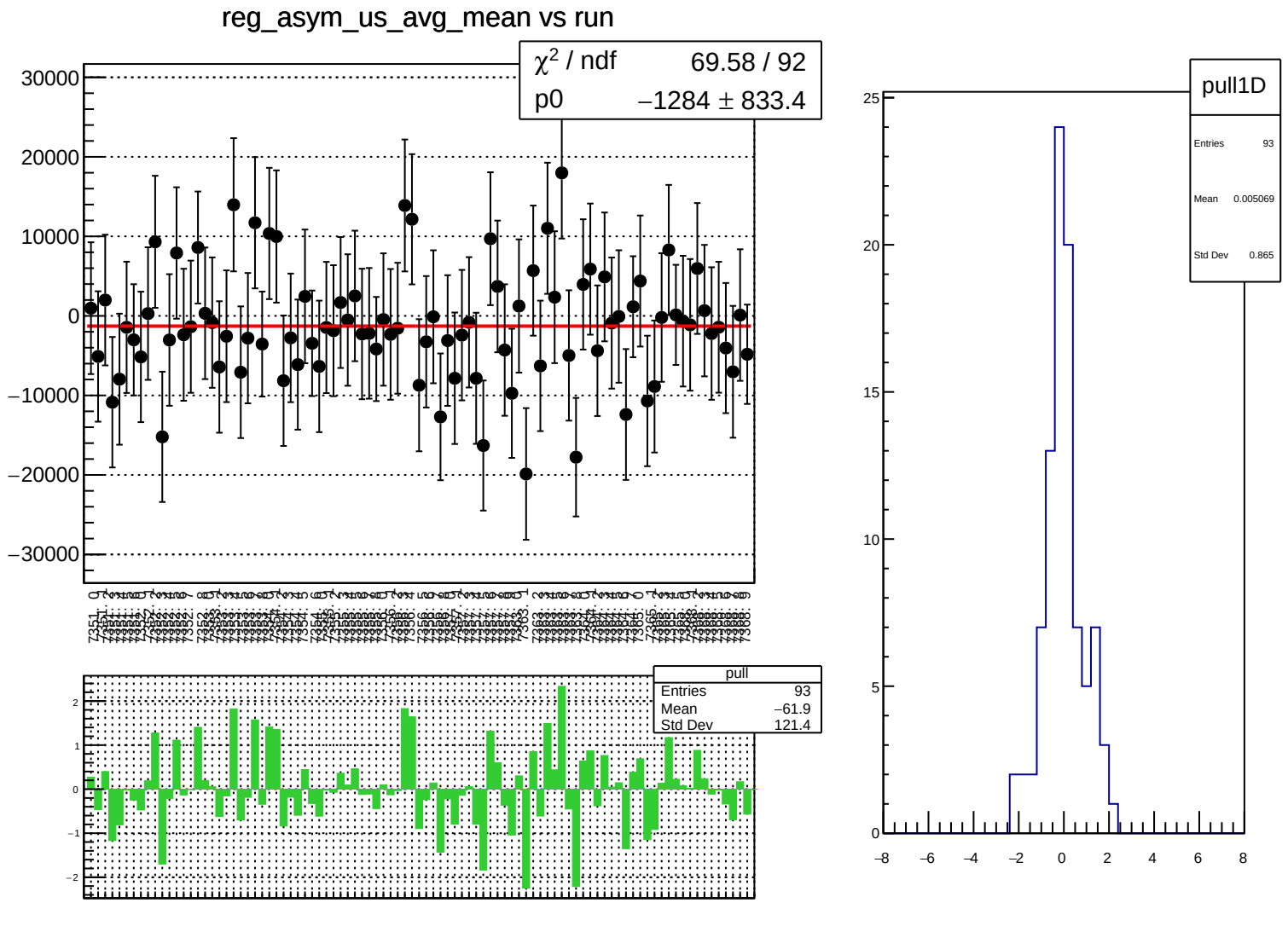
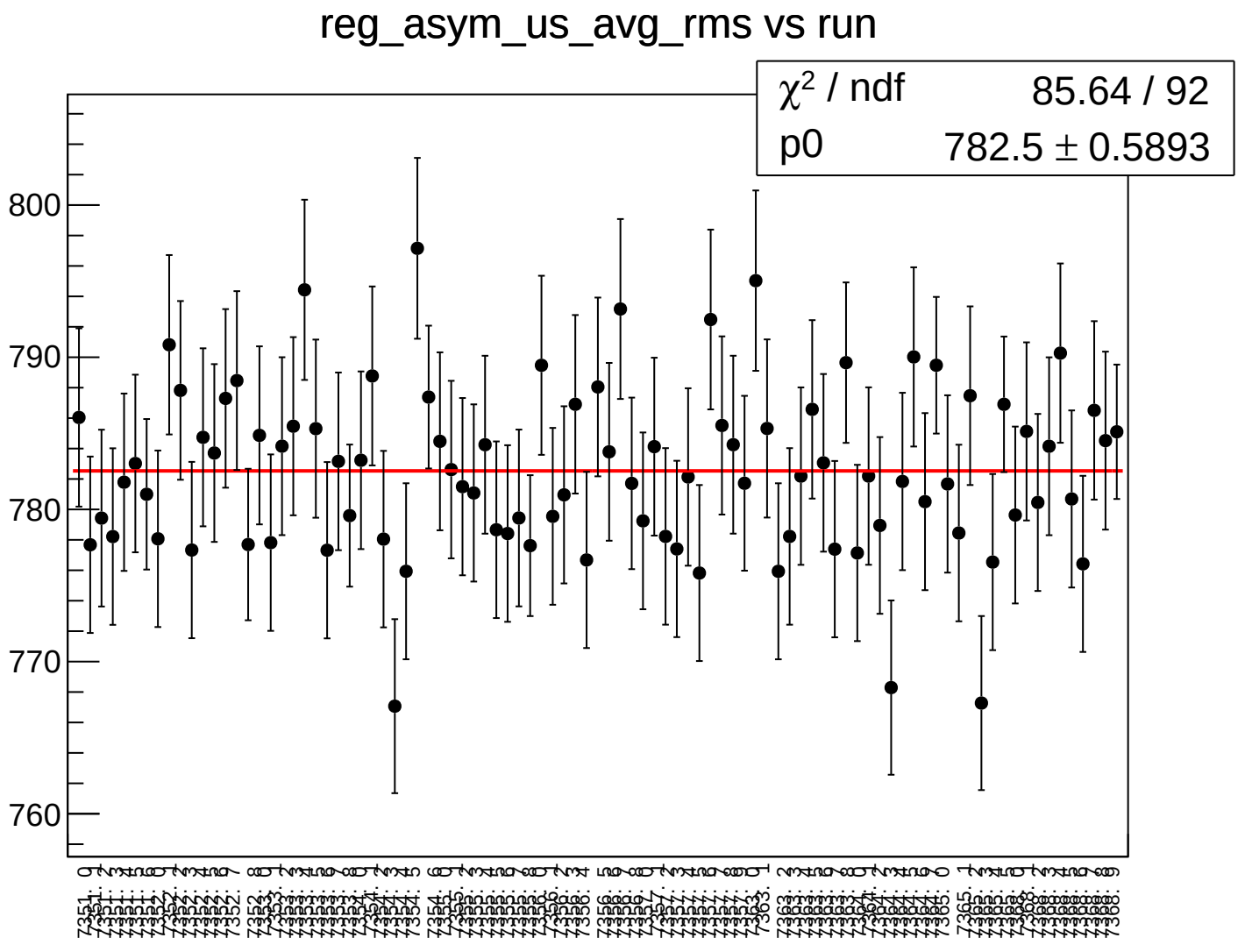
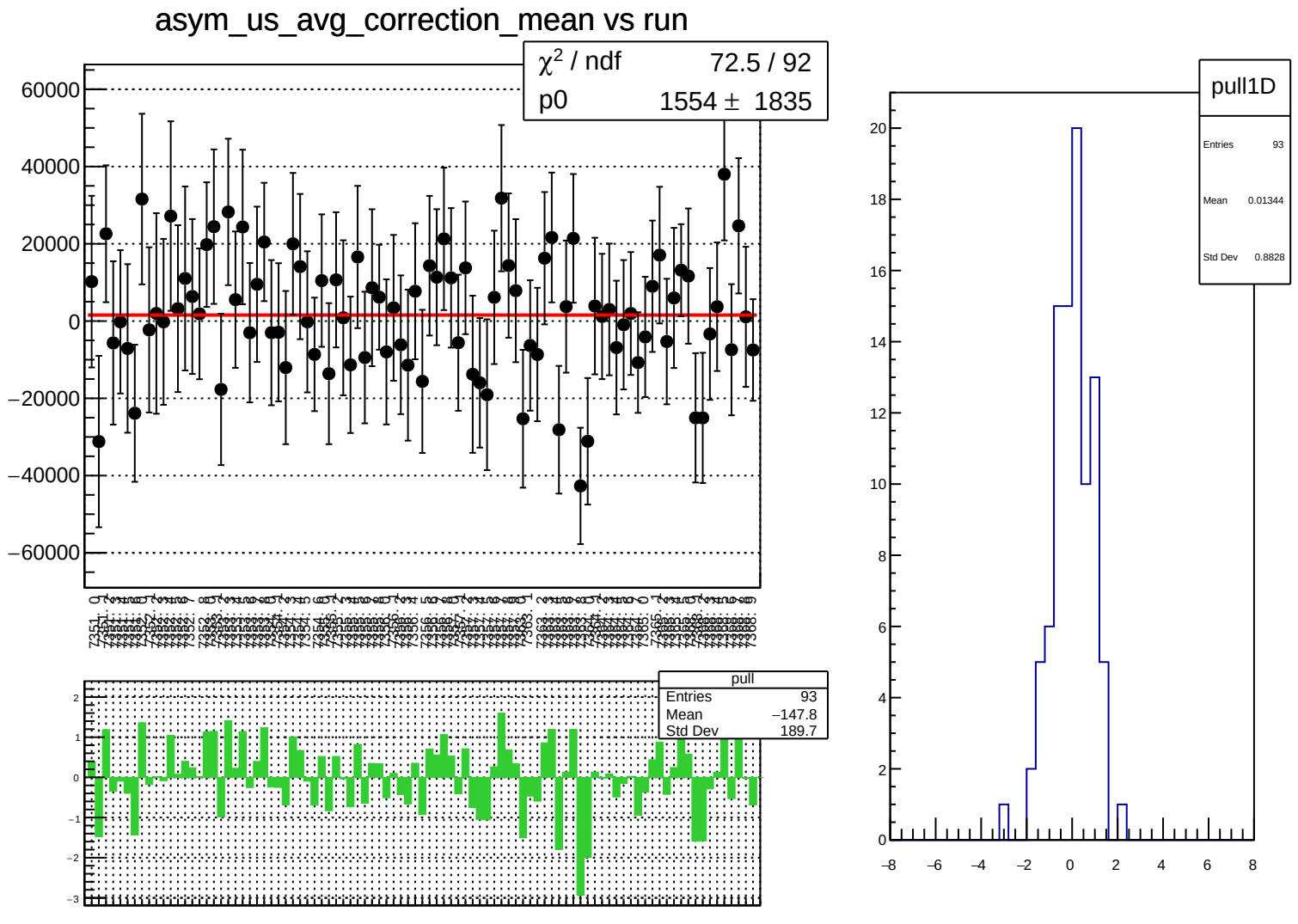
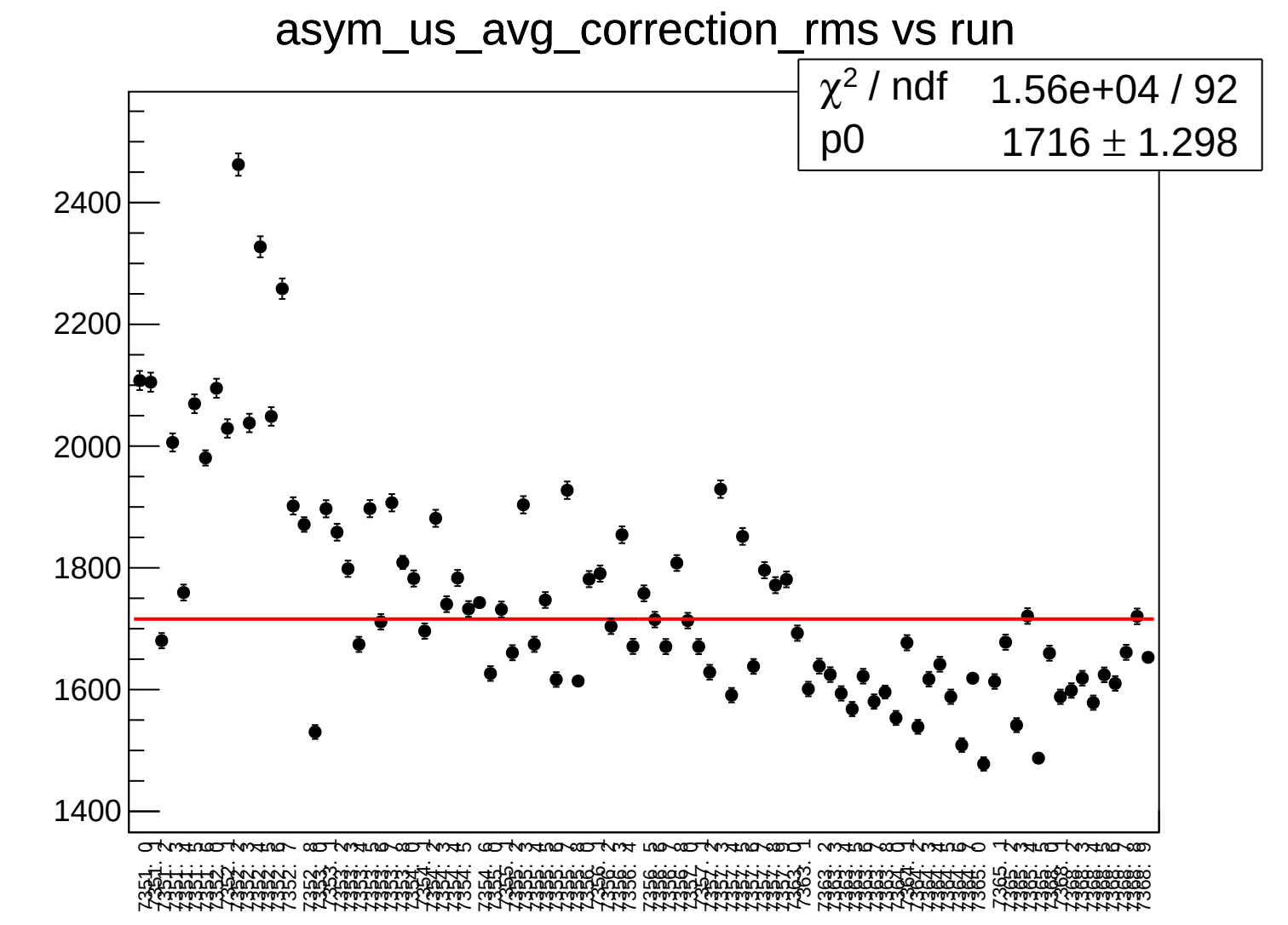
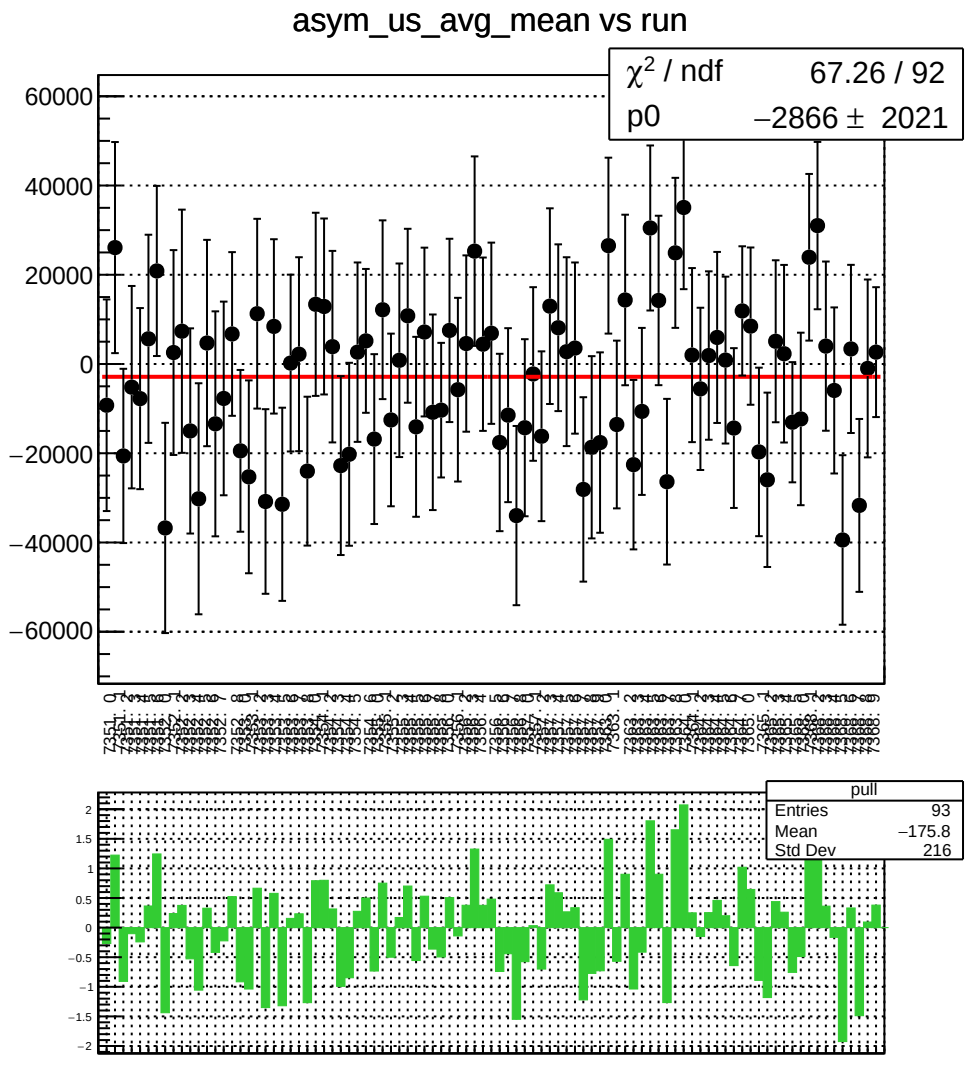
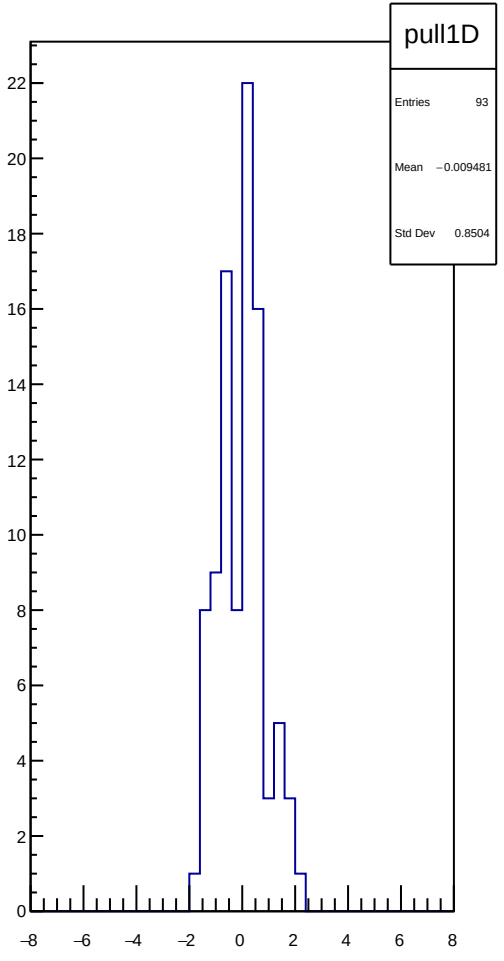

reg_asym_us_avg_mean vs run
χ² / ndf 69.58 / 92
p0 −1284 ± 833.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −61.9
Std Dev 121.4
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005069
Std Dev 0.865
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

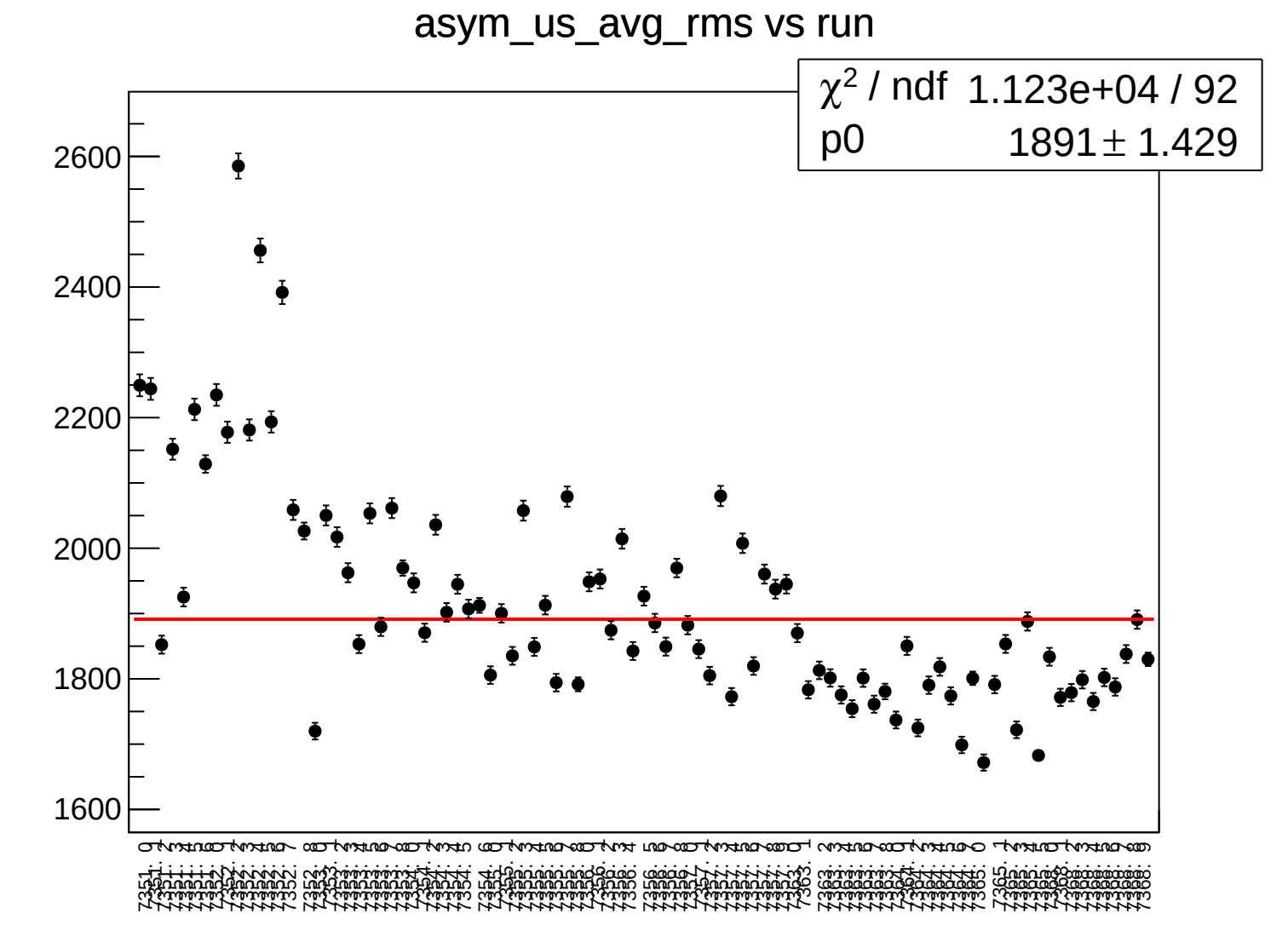

reg_asym_us_avg_rms vs run
χ² / ndf 85.64 / 92
p0 782.5 ± 0.5893
800
790
780
770
760

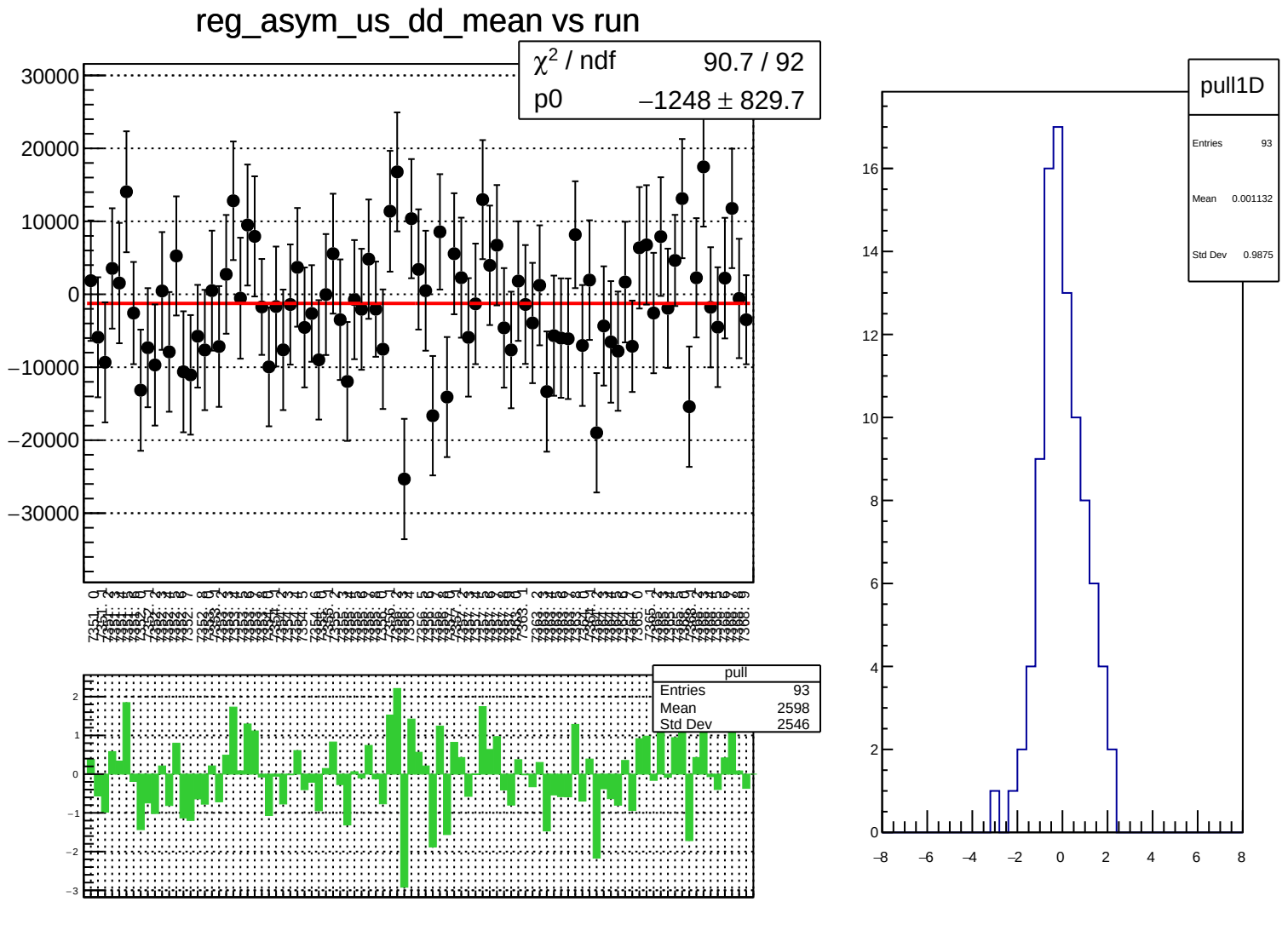

asym_us_avg_correction_mean vs run
χ² / ndf 72.5 / 92
p0 1554 ± 1835
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −147.8
Std Dev 189.7
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01344
Std Dev 0.8828
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

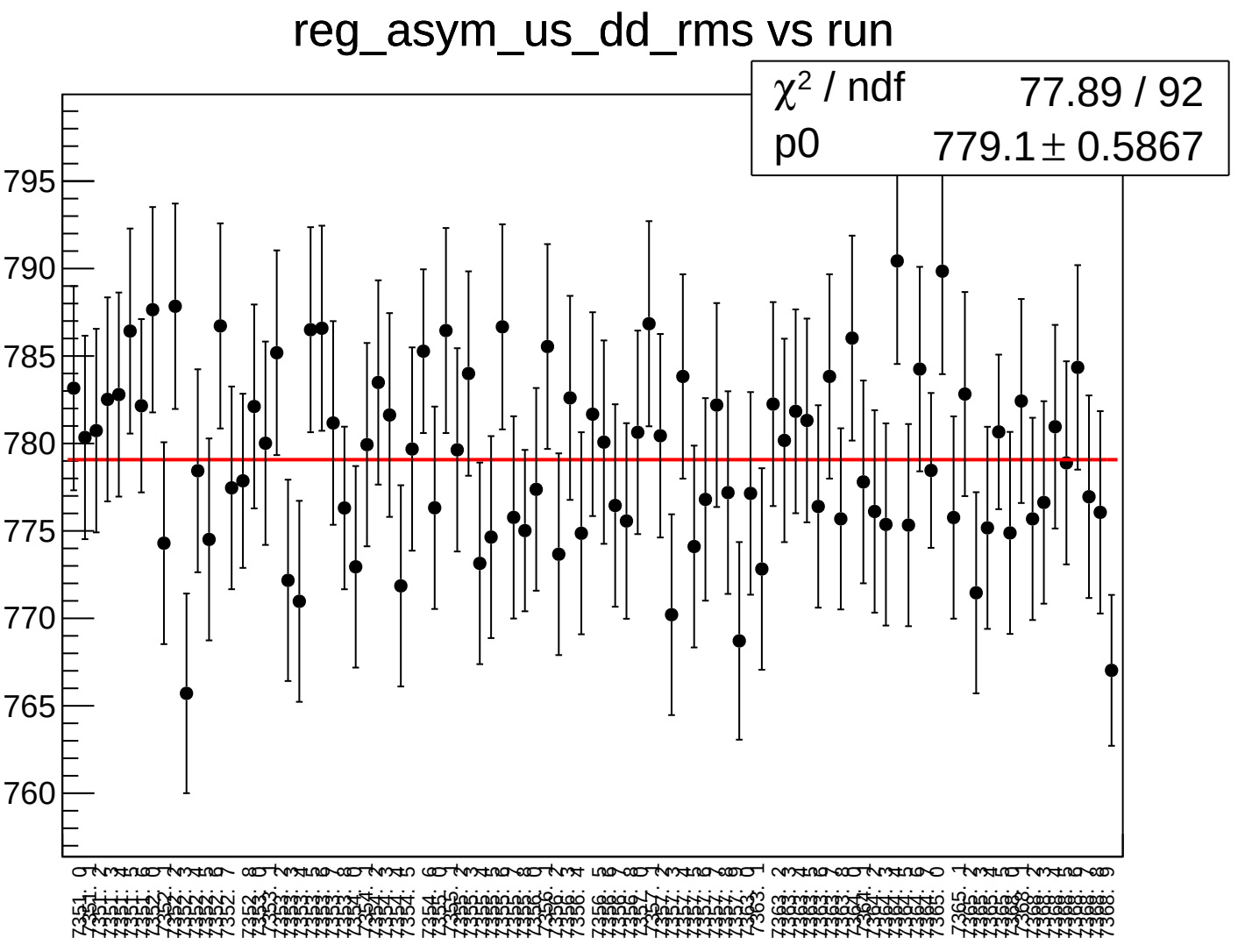

asym_us_avg_correction_rms vs run
χ² / ndf 1.56e+04 / 92
p0 1716 ± 1.298
2400
2200
2000
1800
1600
1400

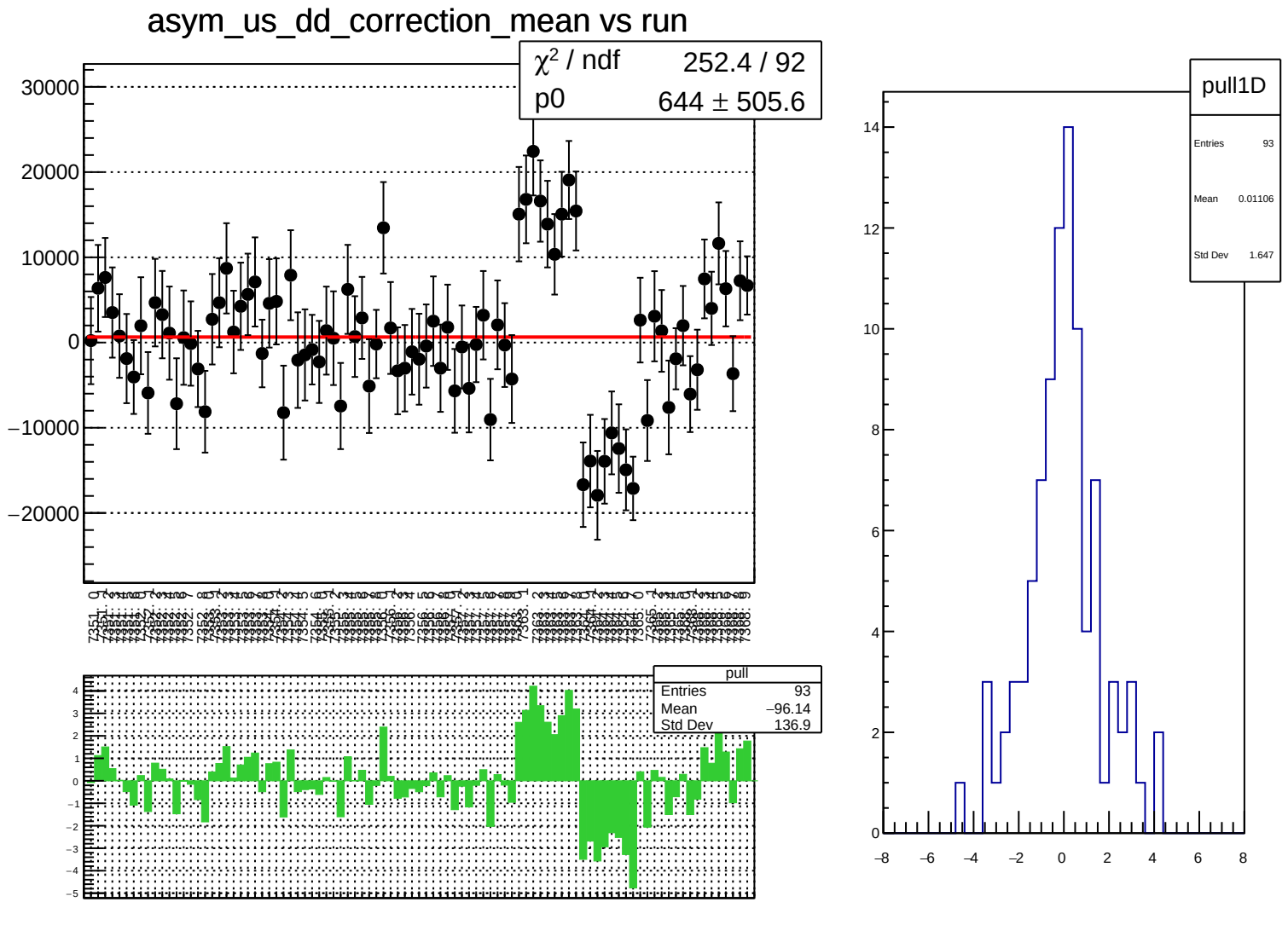

asym_us_avg_mean vs run
χ² / ndf 67.26 / 92
p0 −2866 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −175.8
Std Dev 216
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

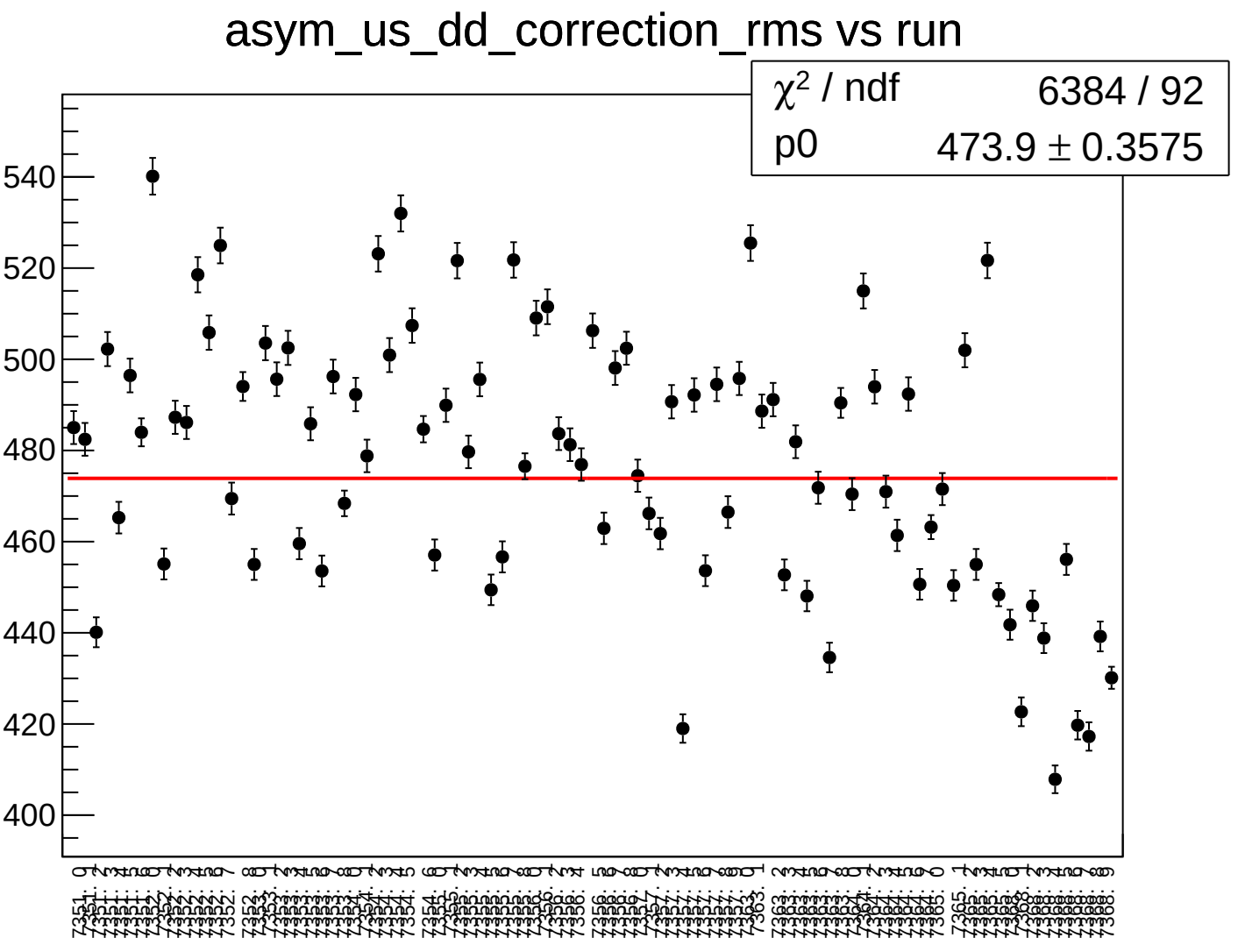

pull1D
Entries 93
Mean −0.009481
Std Dev 0.8504
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

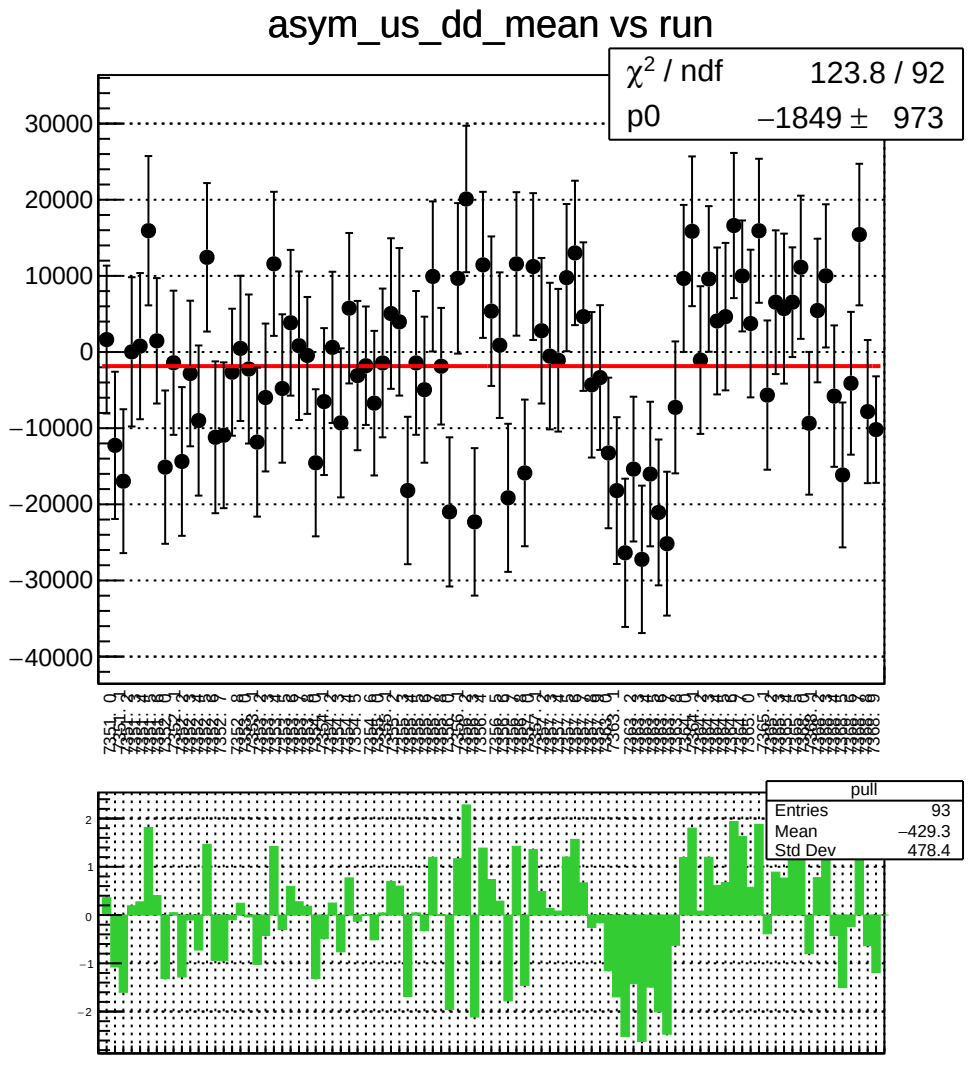

asym_us_avg_rms vs run
χ² / ndf 1.123e+04 / 92
p0 1891 ± 1.429
2600
2400
2200
2000
1800
1600

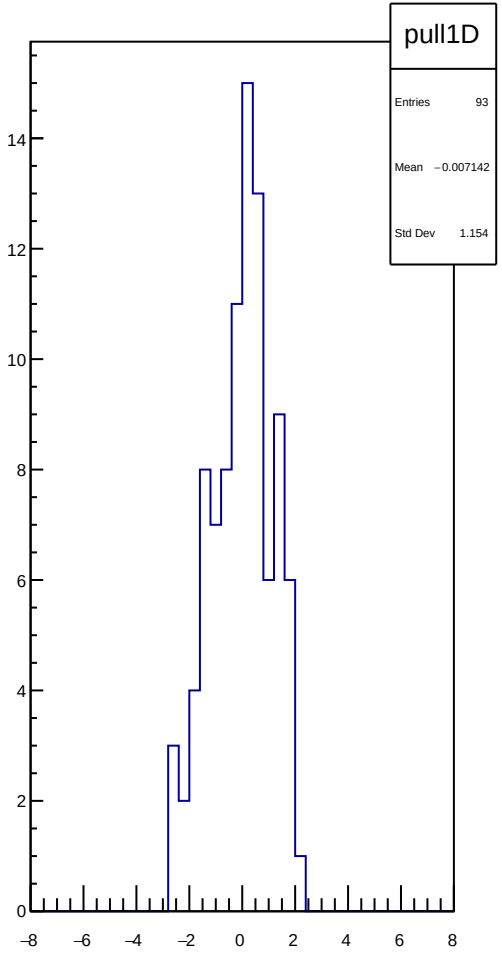

reg_asym_us_dd_mean vs run
χ² / ndf 90.7 / 92
p0 −1248 ± 829.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2598
Std Dev 2546
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.001132
Std Dev 0.9875
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

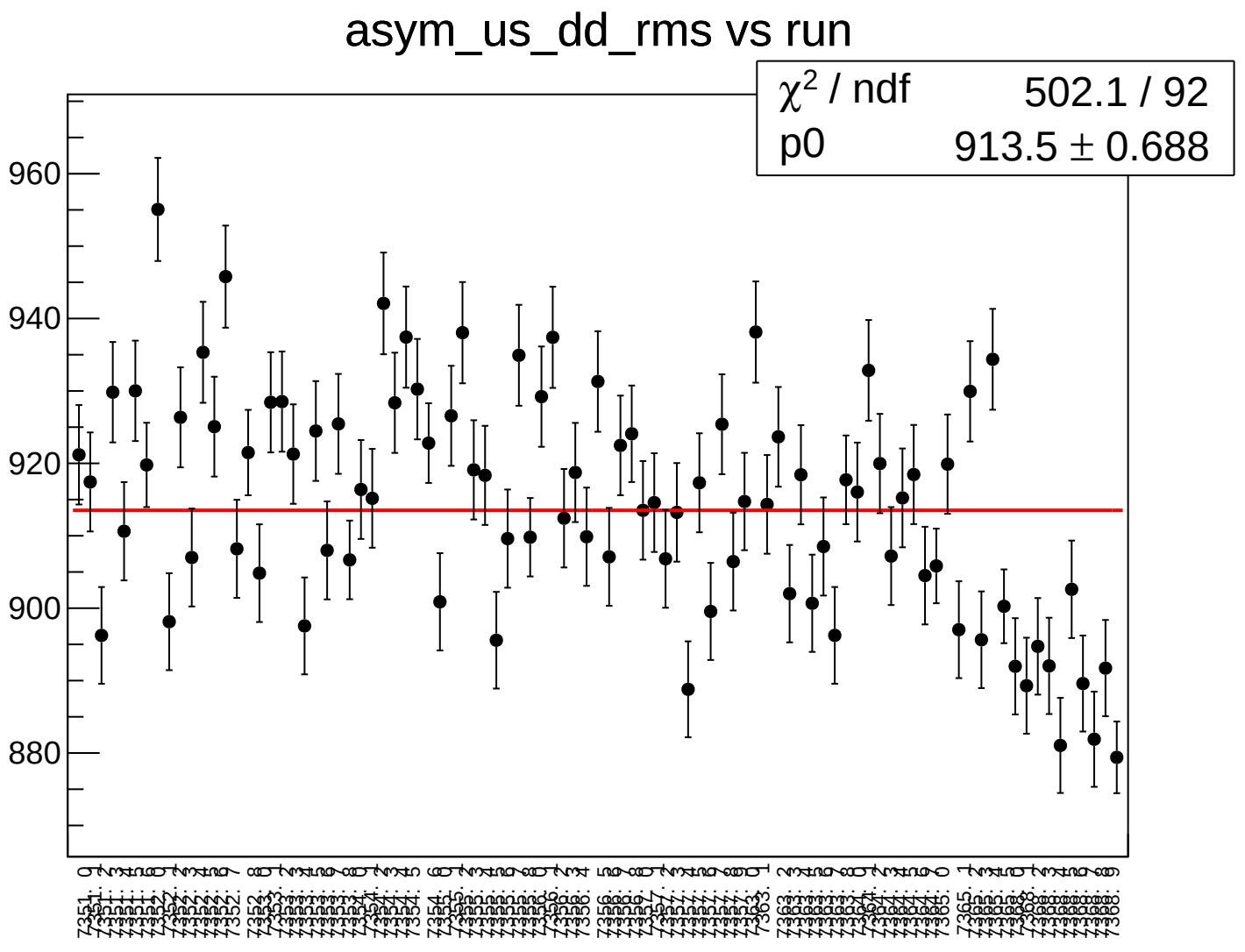

reg_asym_us_dd_rms vs run
χ² / ndf 77.89 / 92
p0 779.1 ± 0.5867
795
790
785
780
775
770
765
760

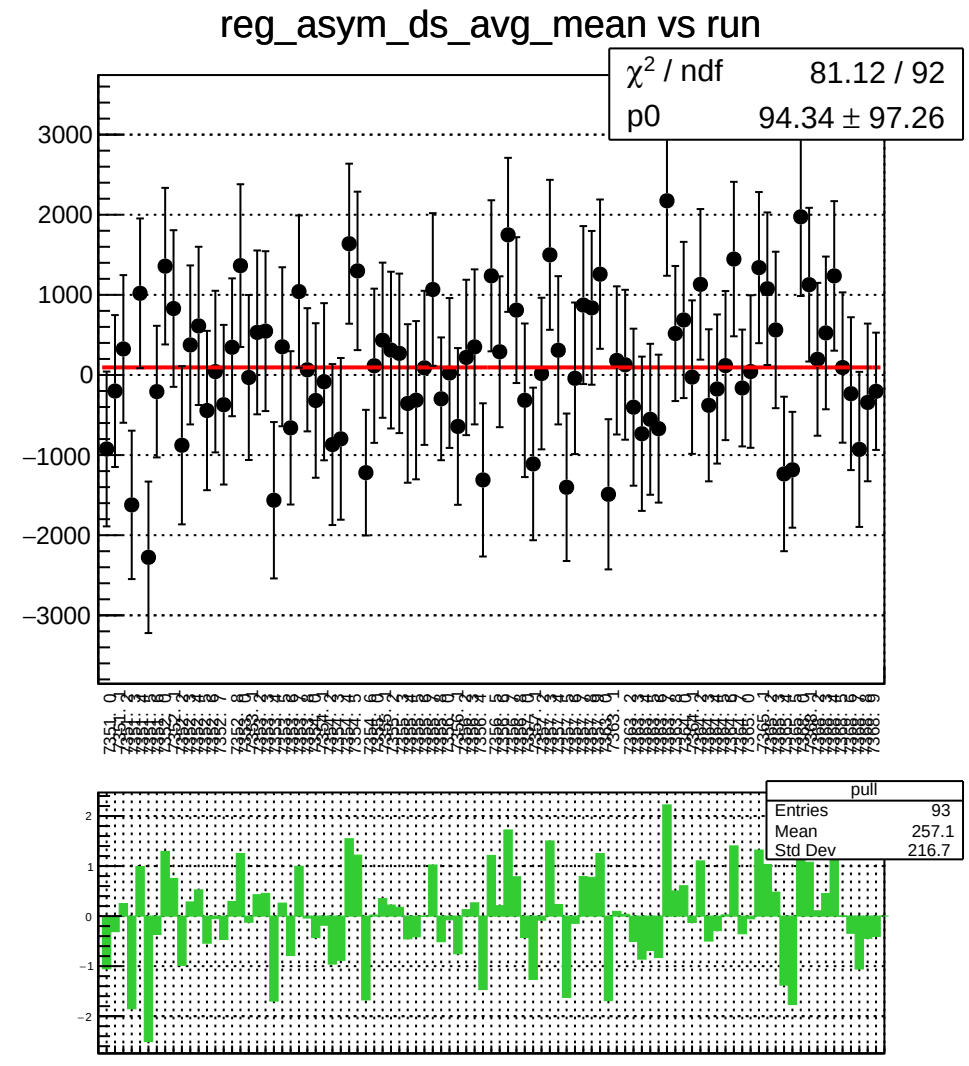

asym_us_dd_correction_mean vs run
χ² / ndf 252.4 / 92
p0 644 ± 505.6
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −96.14
Std Dev 136.9
pull1D
Entries 93
Mean 0.01106
Std Dev 1.647

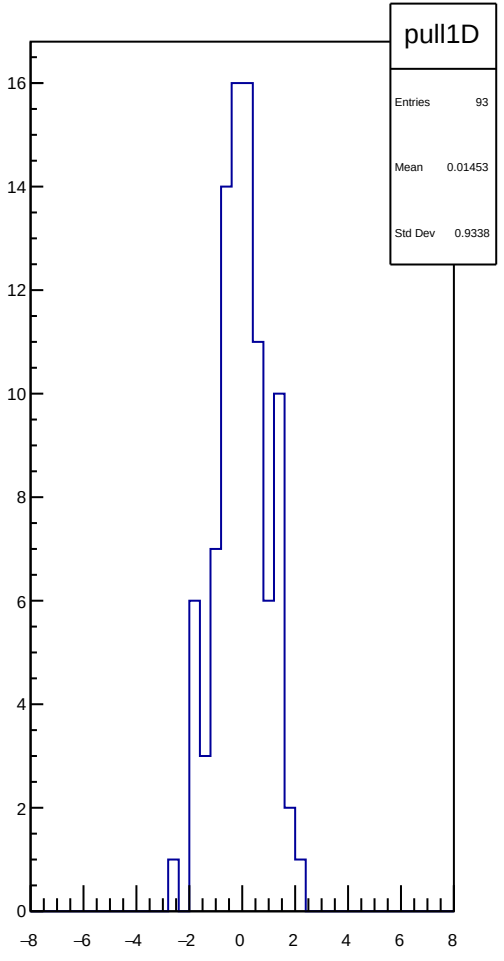

asym_us_dd_correction_rms vs run
χ² / ndf 6384 / 92
p0 473.9 ± 0.3575
540
520
500
480
460
440
420
400

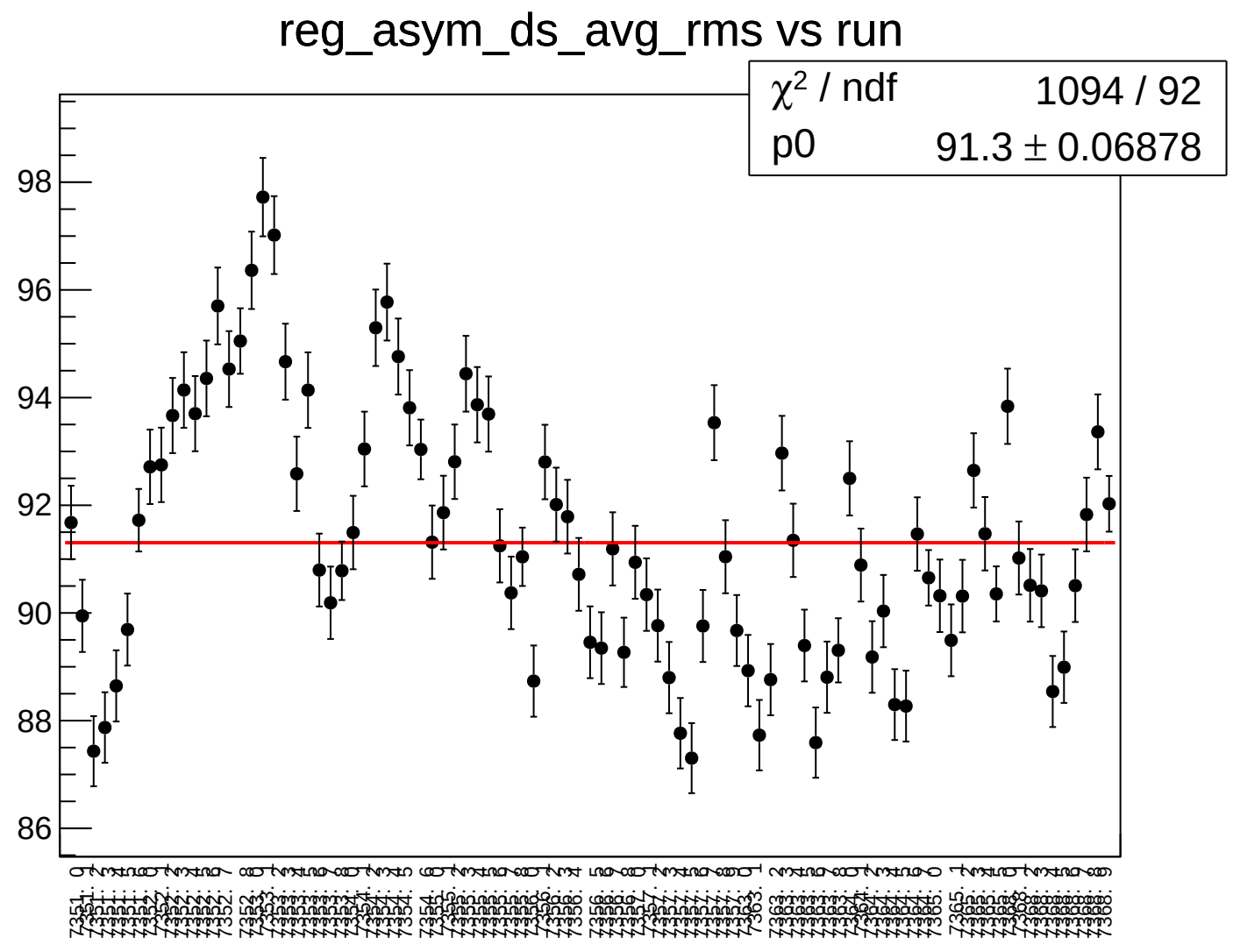

asym_us_dd_mean vs run
χ² / ndf 123.8 / 92
p0 −1849 ± 973
pull
Entries 93
Mean −429.3
Std Dev 478.4

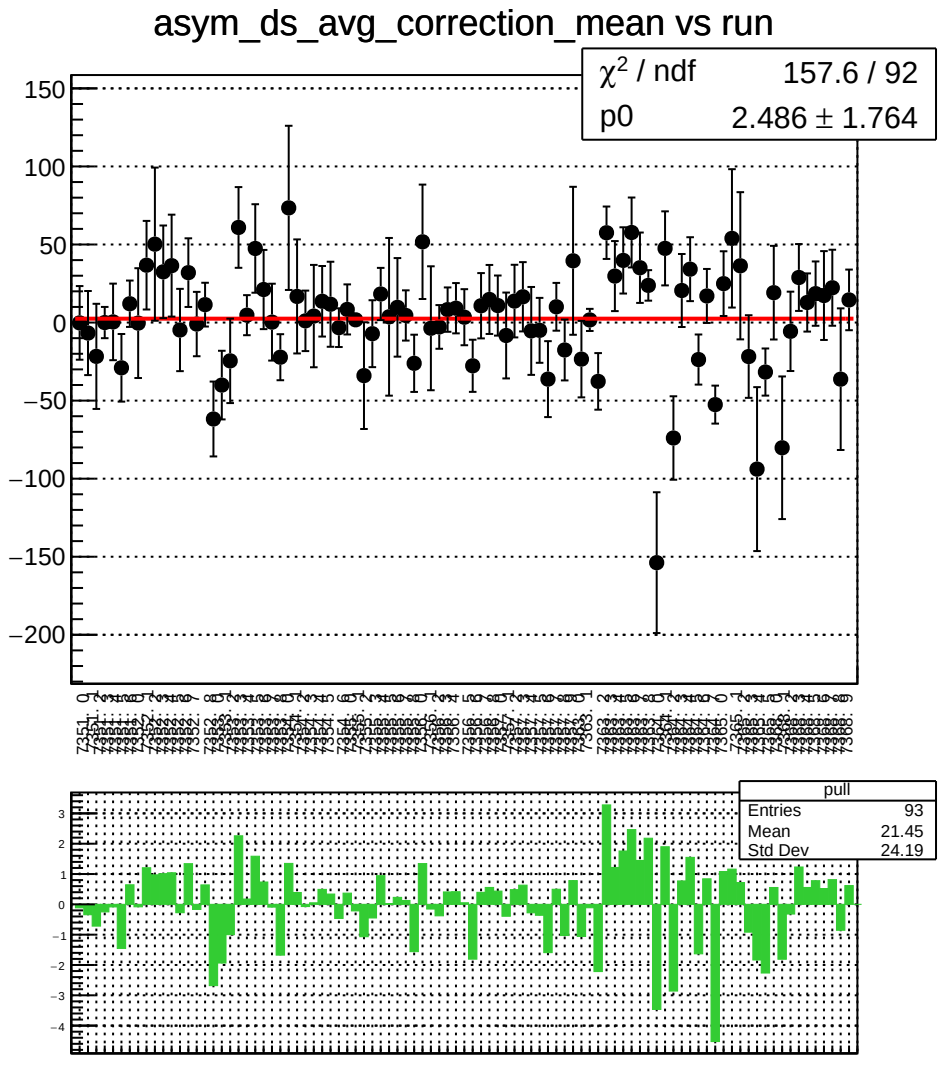

pull1D
Entries 93
Mean −0.007142
Std Dev 1.154

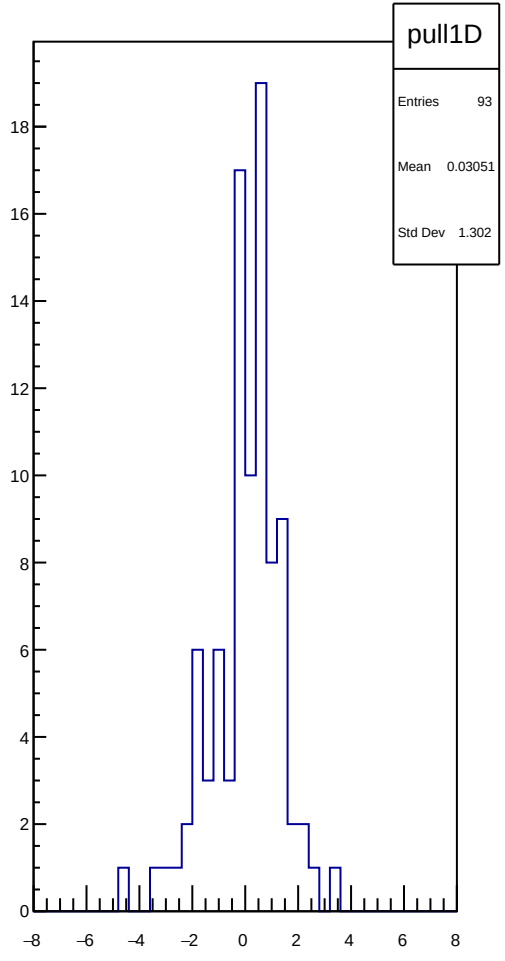

asym_us_dd_rms vs run
χ^2 / ndf 502.1 / 92
p0 913.5 ± 0.688
960
940
920
900
880

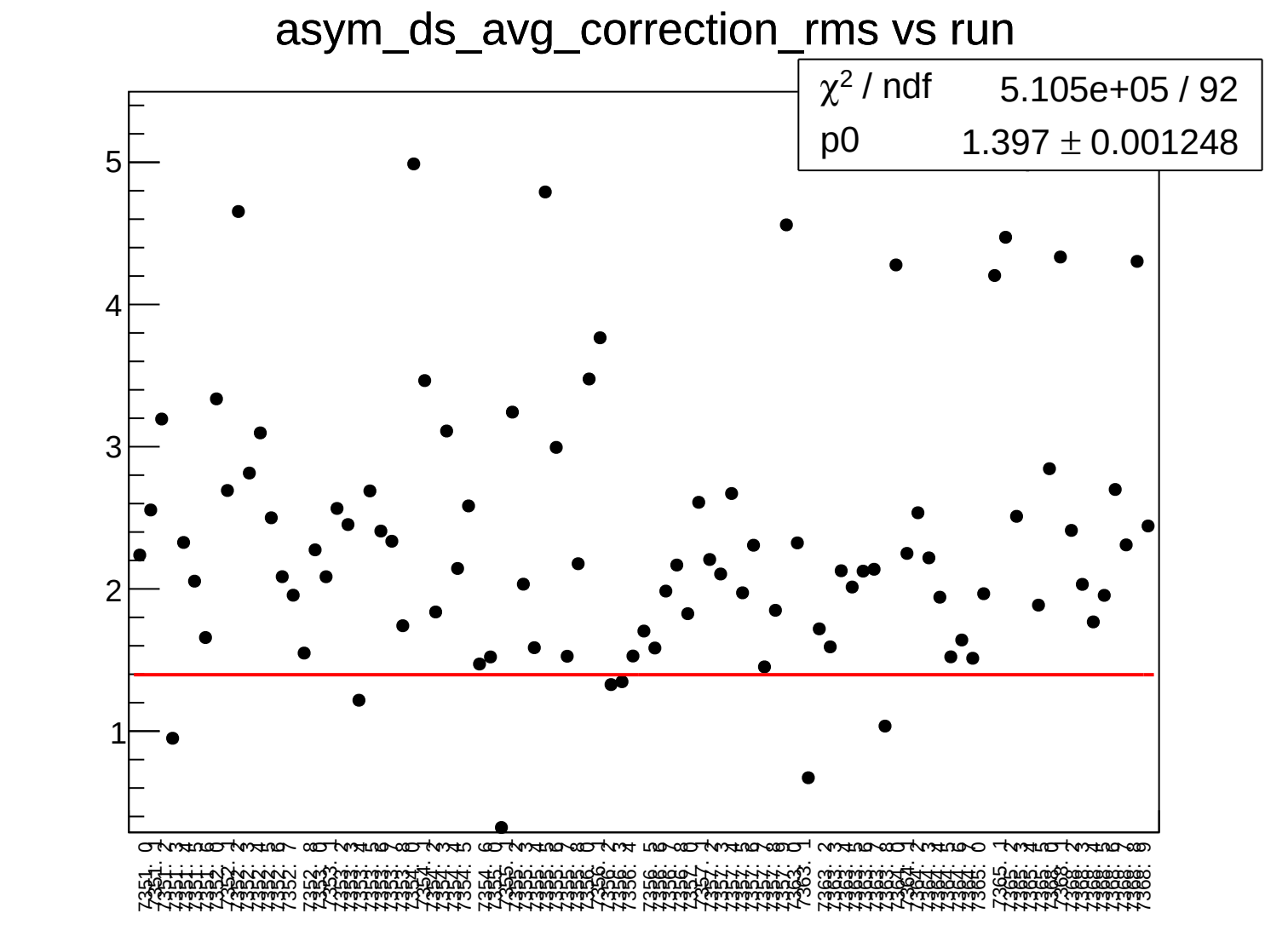

reg_asym_ds_avg_mean vs run
χ² / ndf 81.12 / 92
p0 94.34 ± 97.26
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 257.1
Std Dev 216.7
2
1
0
−1
−2

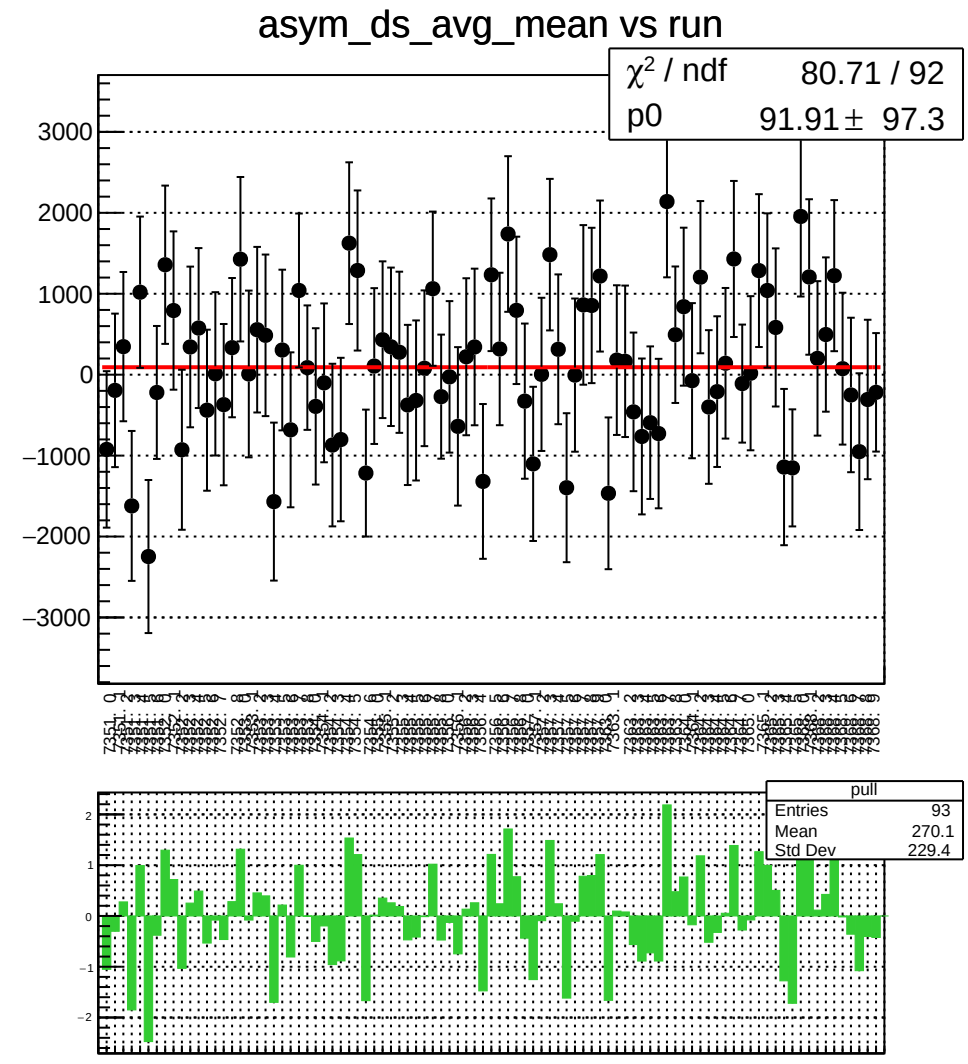

pull1D
Entries 93
Mean 0.01453
Std Dev 0.9338
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

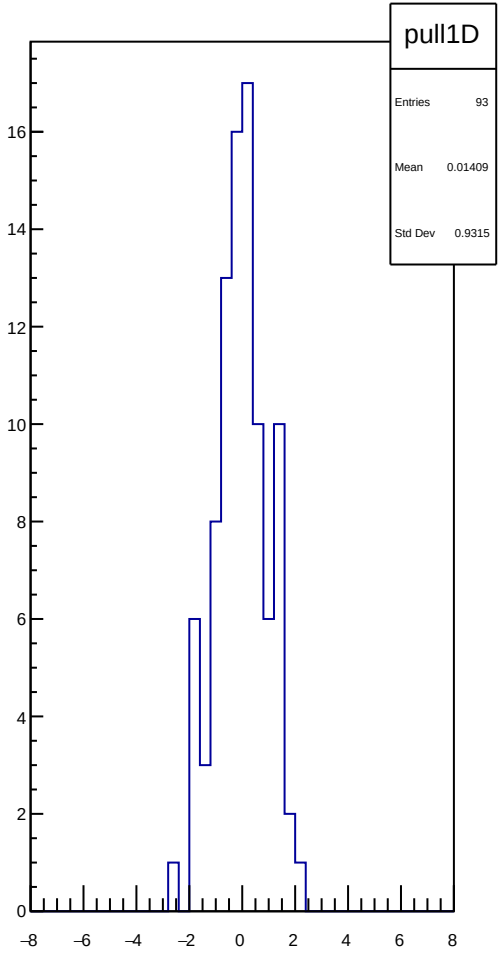

reg_asym_ds_avg_rms vs run
χ^2 / ndf 1094 / 92
p0 91.3 ± 0.06878
98
96
94
92
90
88
86

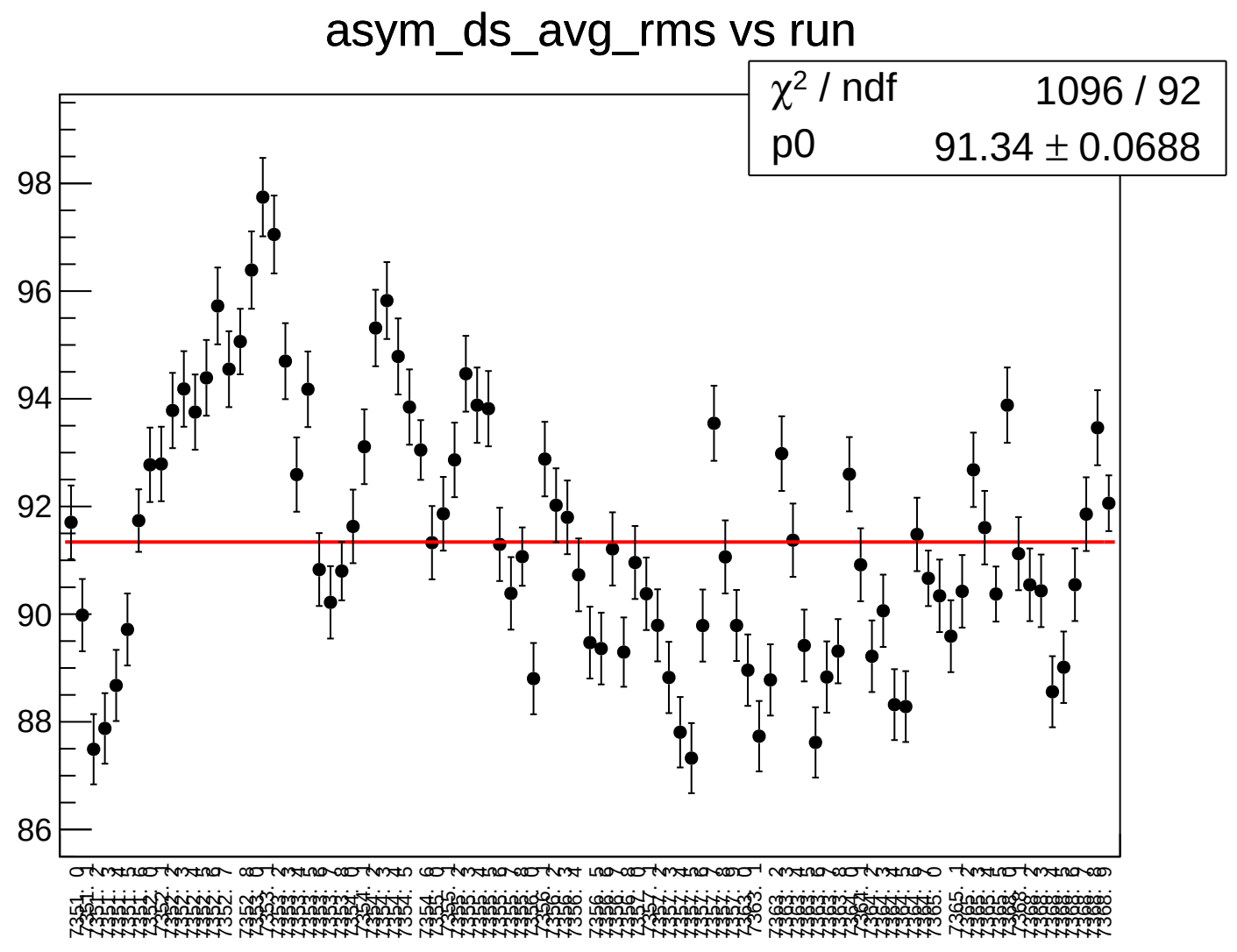

asym_ds_avg_correction_mean vs run
χ² / ndf 157.6 / 92
p0 2.486 ± 1.764
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 21.45
Std Dev 24.19
3
2
1
0
−1
−2
−3
−4

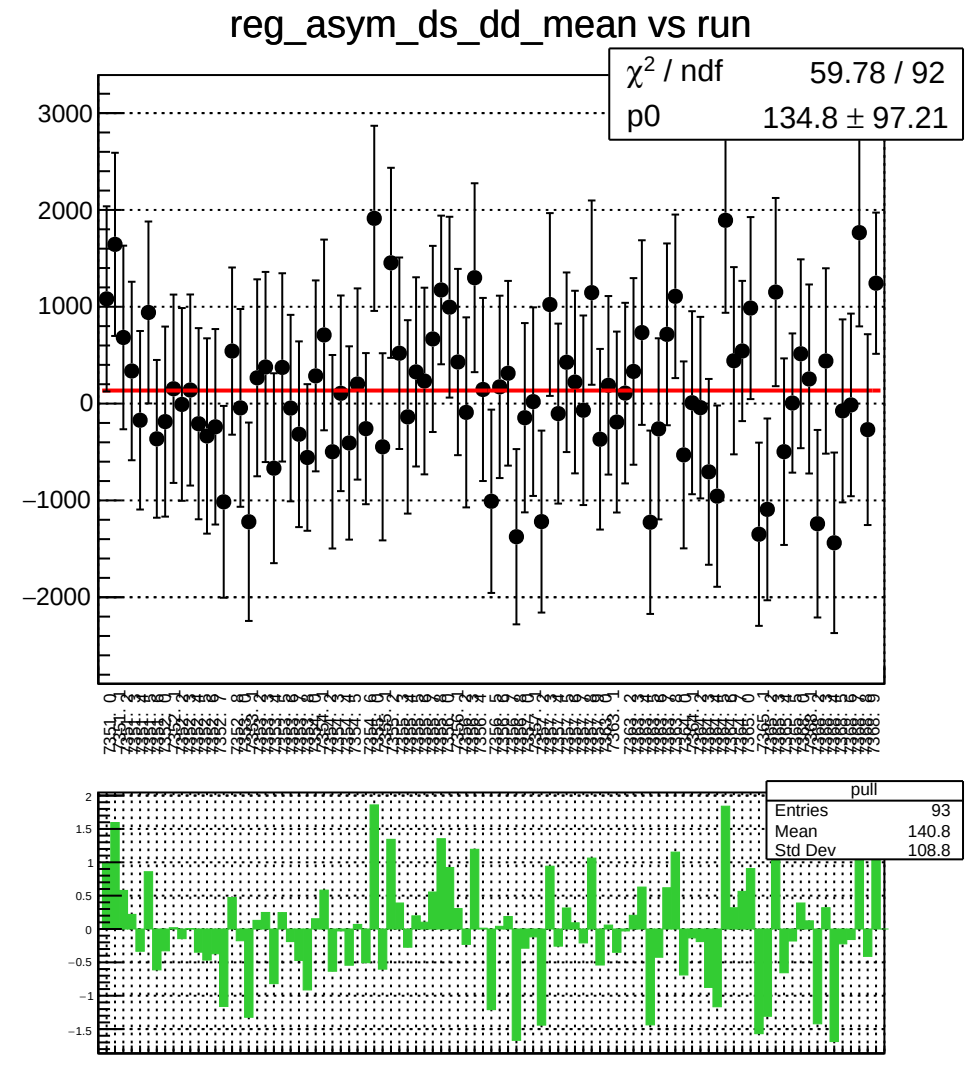

pull1D
Entries 93
Mean 0.03051
Std Dev 1.302
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

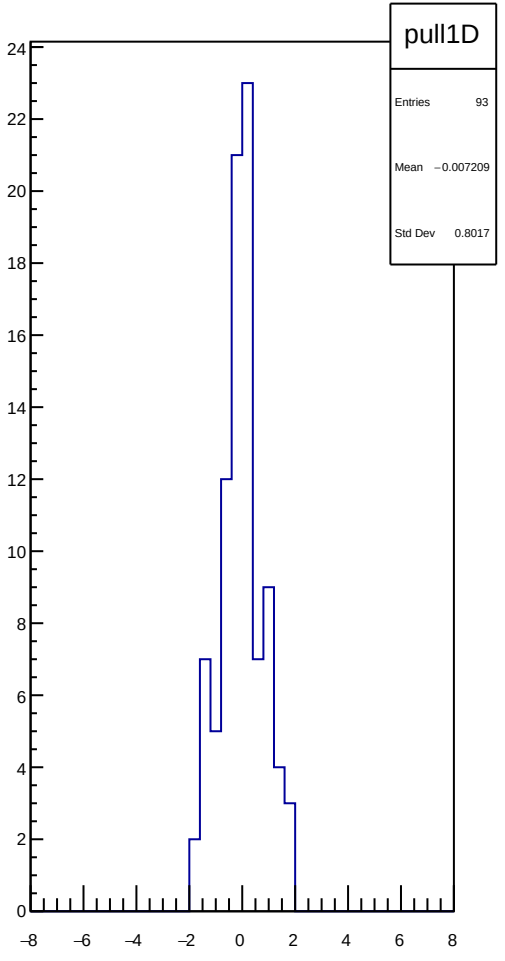

asym_ds_avg_correction_rms vs run
χ^2 / ndf 5.105e+05 / 92
p0 1.397 ± 0.001248
5
4
3
2
1

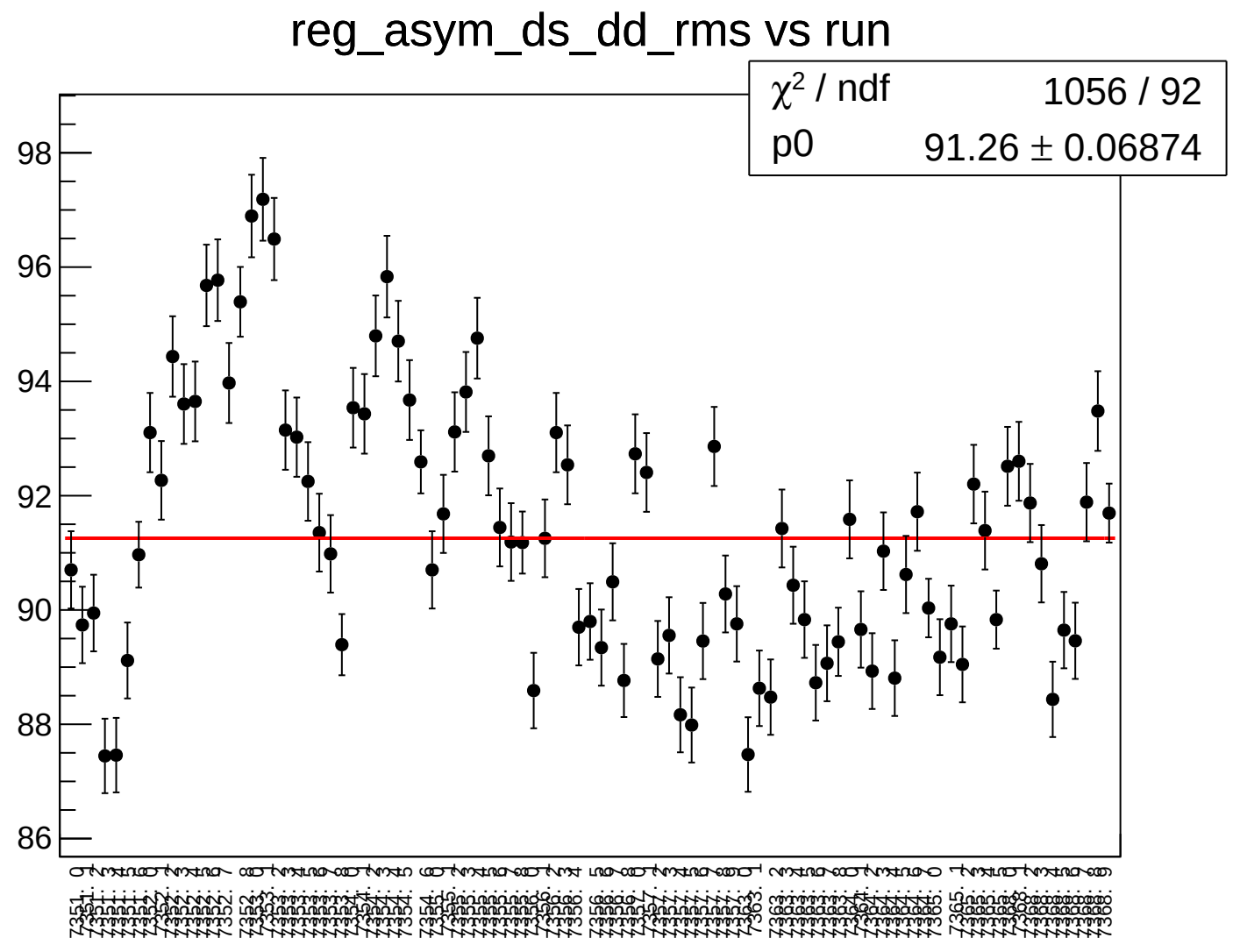

asym_ds_avg_mean vs run
χ² / ndf 80.71 / 92
p0 91.91 ± 97.3
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 270.1
Std Dev 229.4
2
1
0
−1
−2

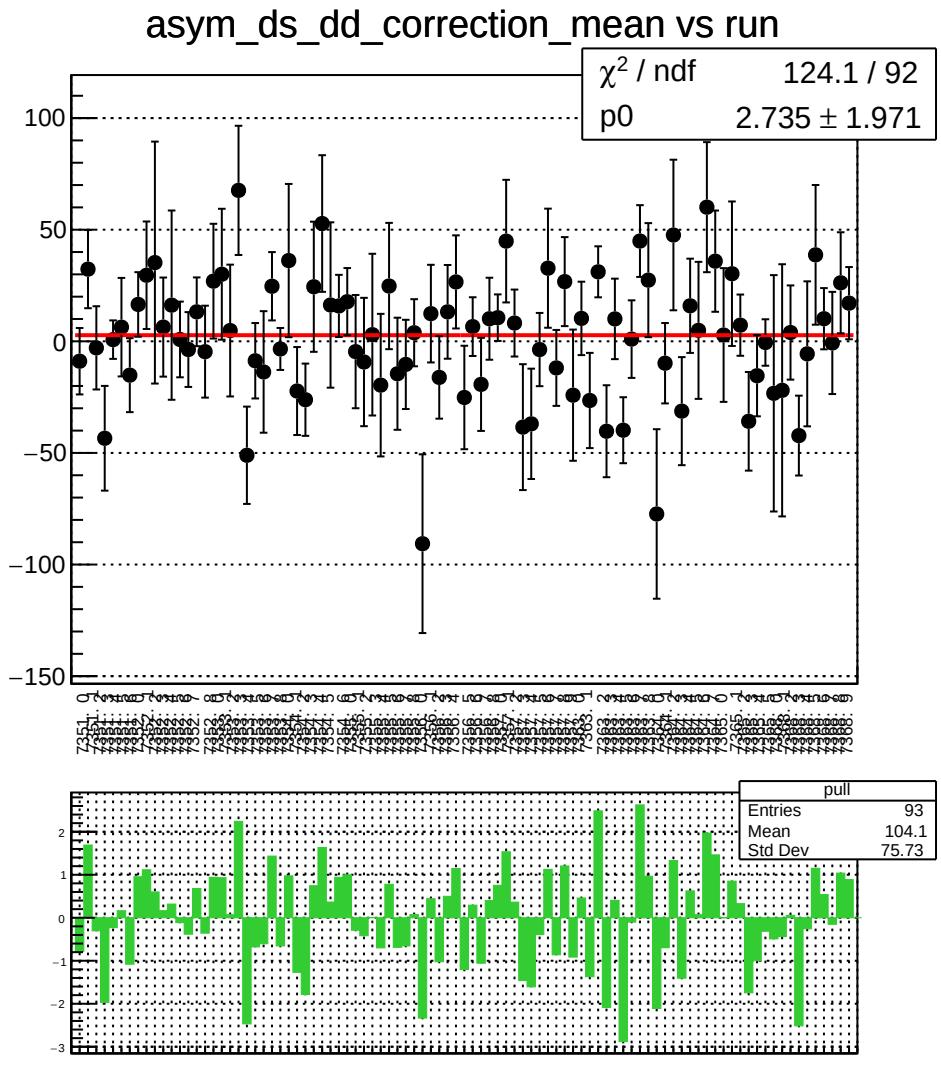

pull1D
Entries 93
Mean 0.01409
Std Dev 0.9315
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

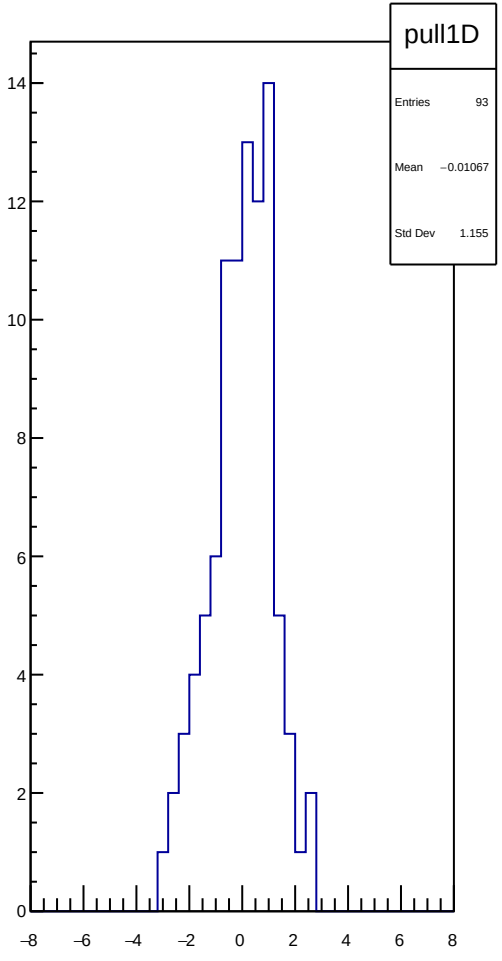

asym_ds_avg_rms vs run
χ² / ndf 1096 / 92
p0 91.34 ± 0.0688
98
96
94
92
90
88
86

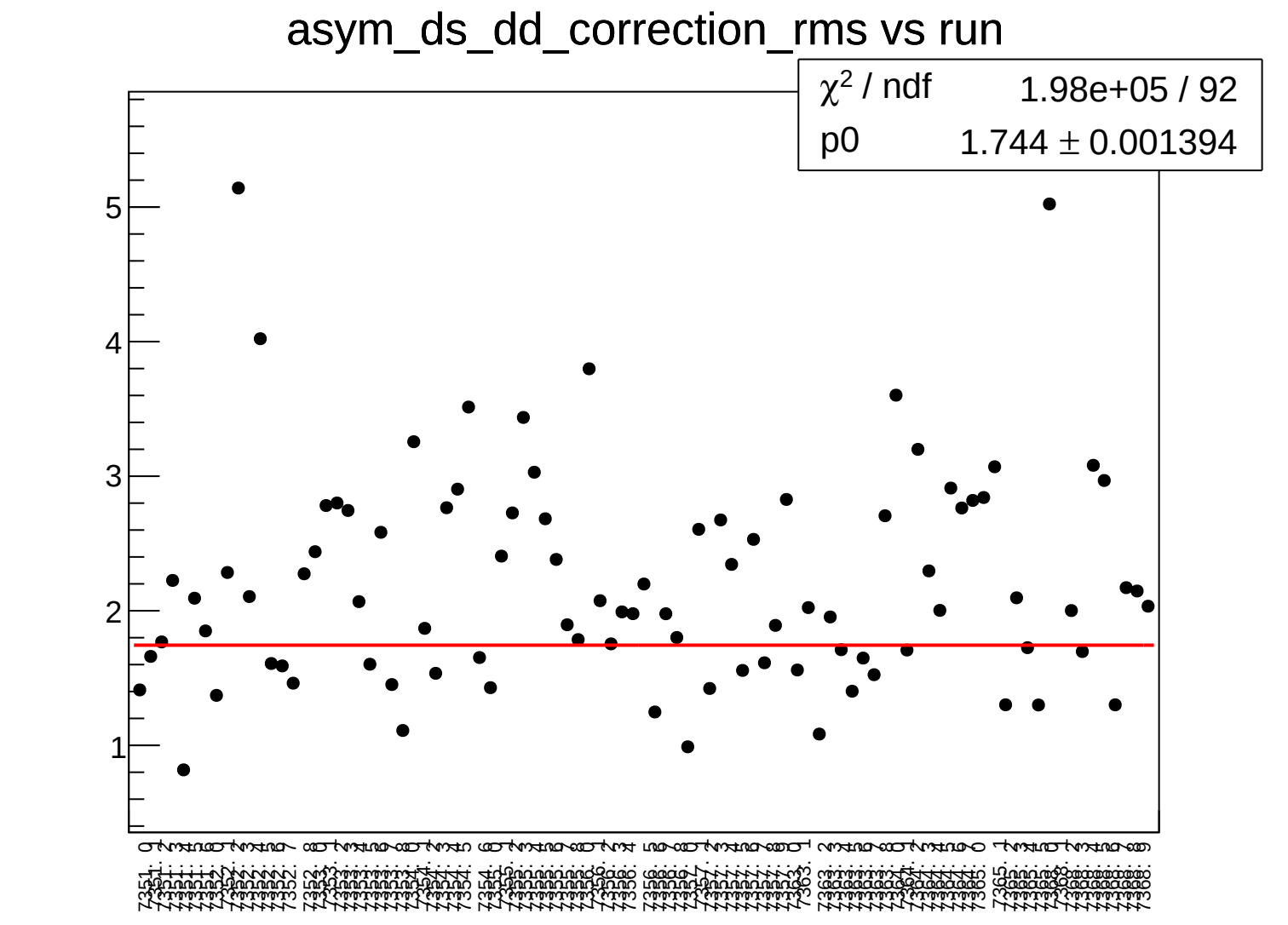

reg_asym_ds_dd_mean vs run
χ² / ndf 59.78 / 92
p0 134.8 ± 97.21
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 140.8
Std Dev 108.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

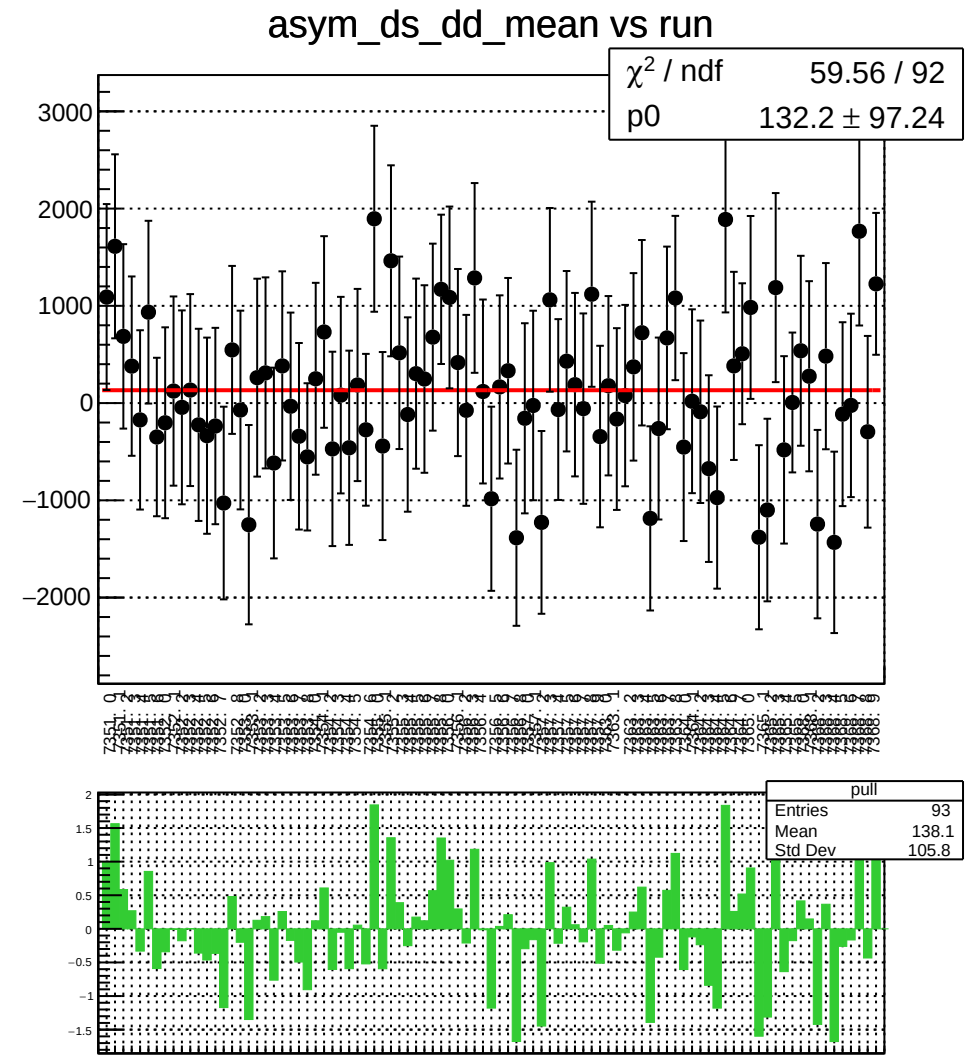

pull1D
Entries 93
Mean −0.007209
Std Dev 0.8017
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

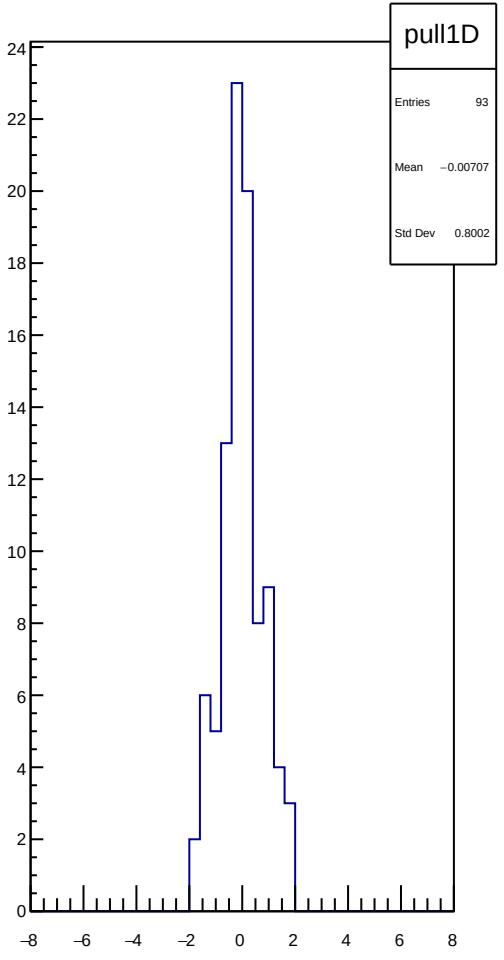

reg_asym_ds_dd_rms vs run
χ^2 / ndf 1056 / 92
p0 91.26 ± 0.06874
98
96
94
92
90
88
86

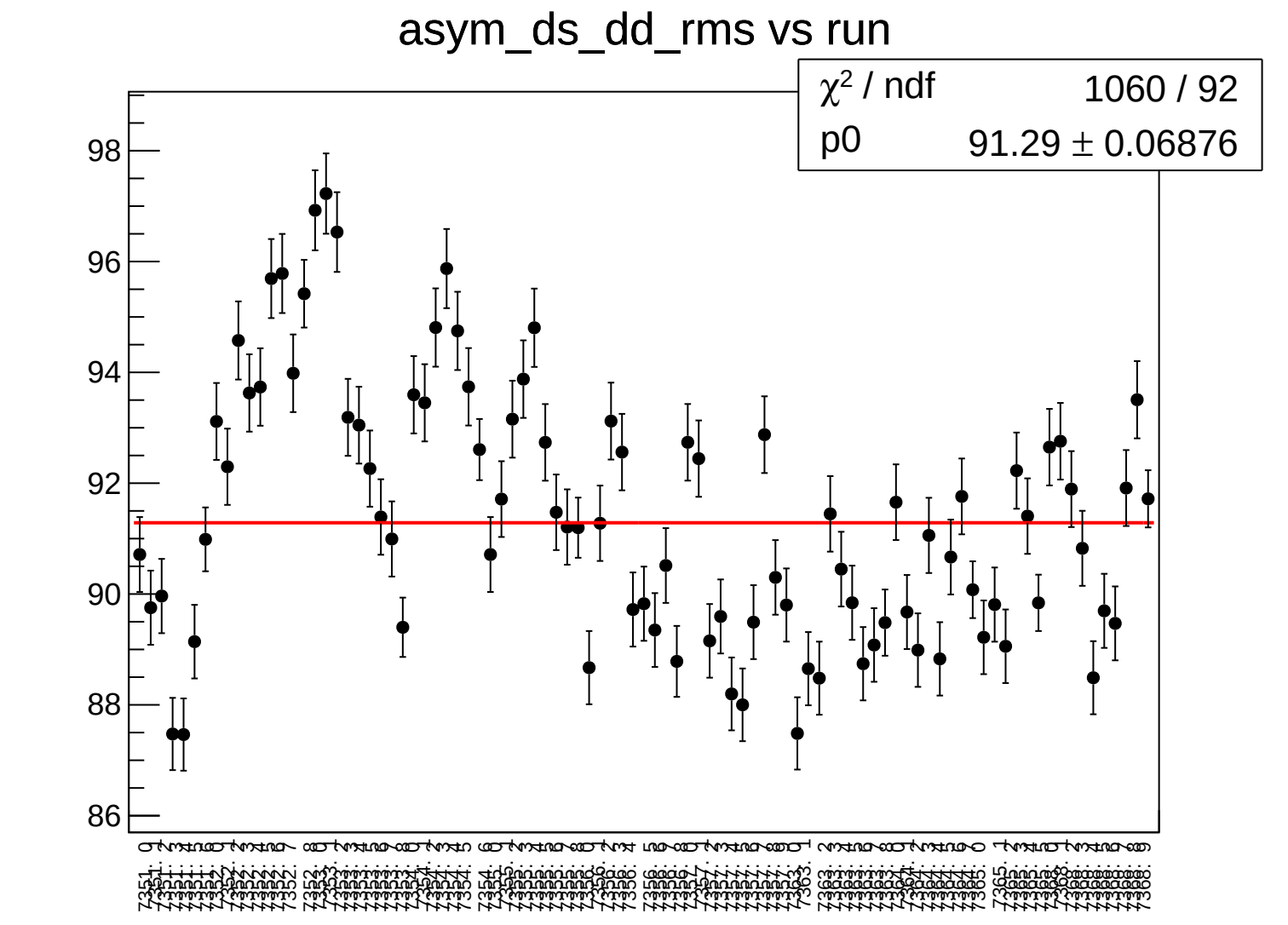

asym_ds_dd_correction_mean vs run
χ² / ndf 124.1 / 92
p0 2.735 ± 1.971
pull
Entries 93
Mean 104.1
Std Dev 75.73

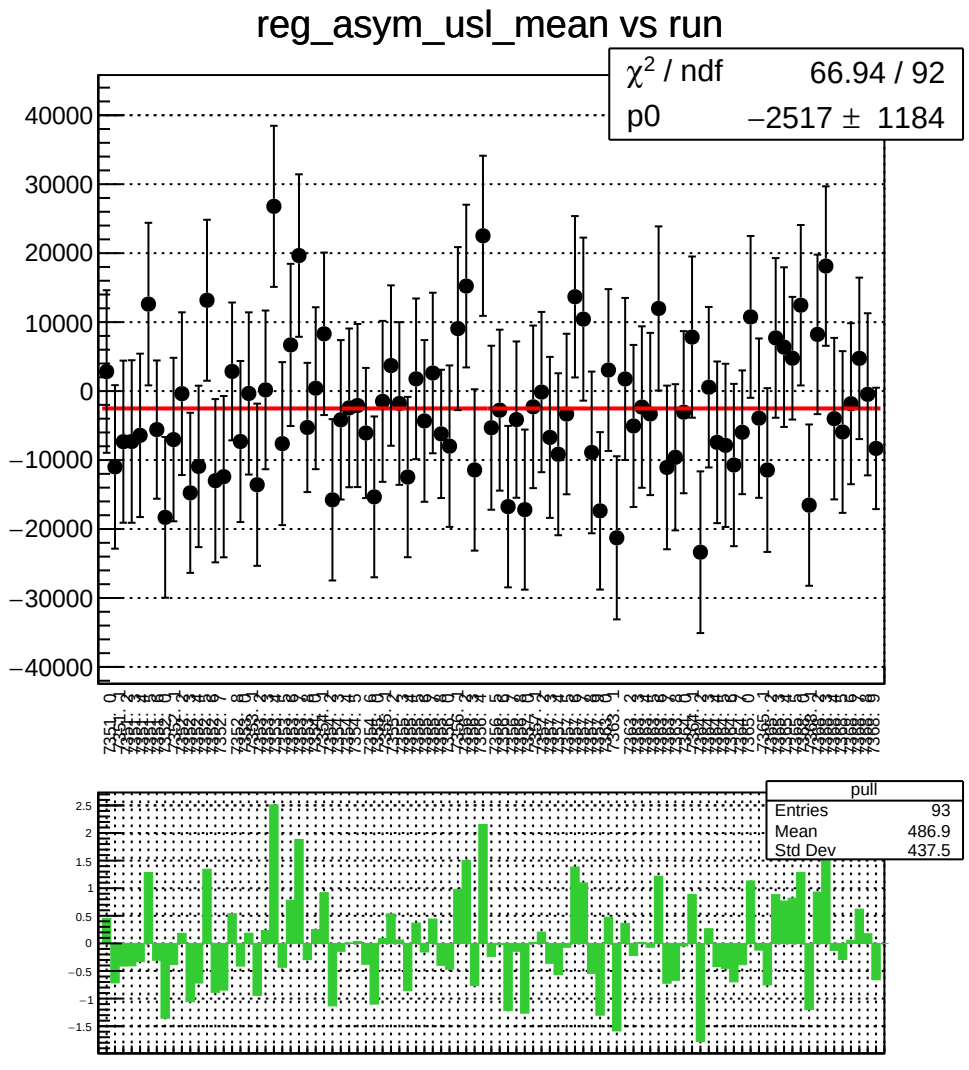

pull1D
Entries 93
Mean −0.01067
Std Dev 1.155

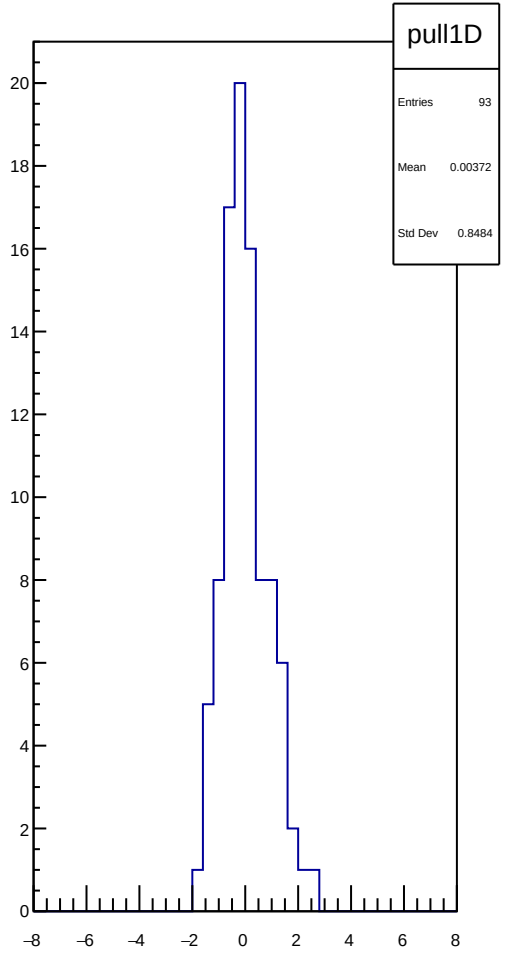

asym_ds_dd_correction_rms vs run
χ^2 / ndf 1.98e+05 / 92
p0 1.744 ± 0.001394
5
4
3
2
1

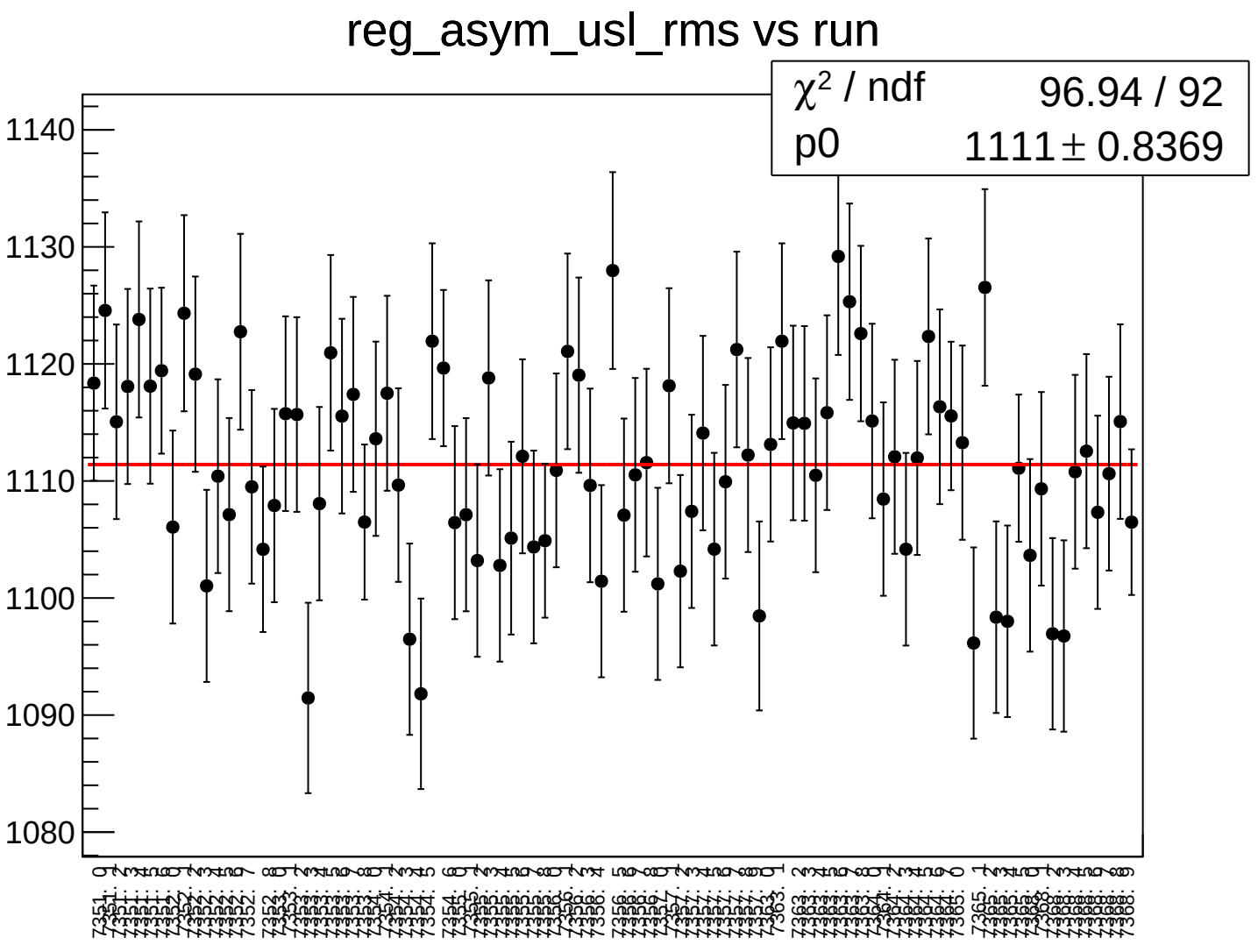

asym_ds_dd_mean vs run
χ² / ndf 59.56 / 92
p0 132.2 ± 97.24
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 138.1
Std Dev 105.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

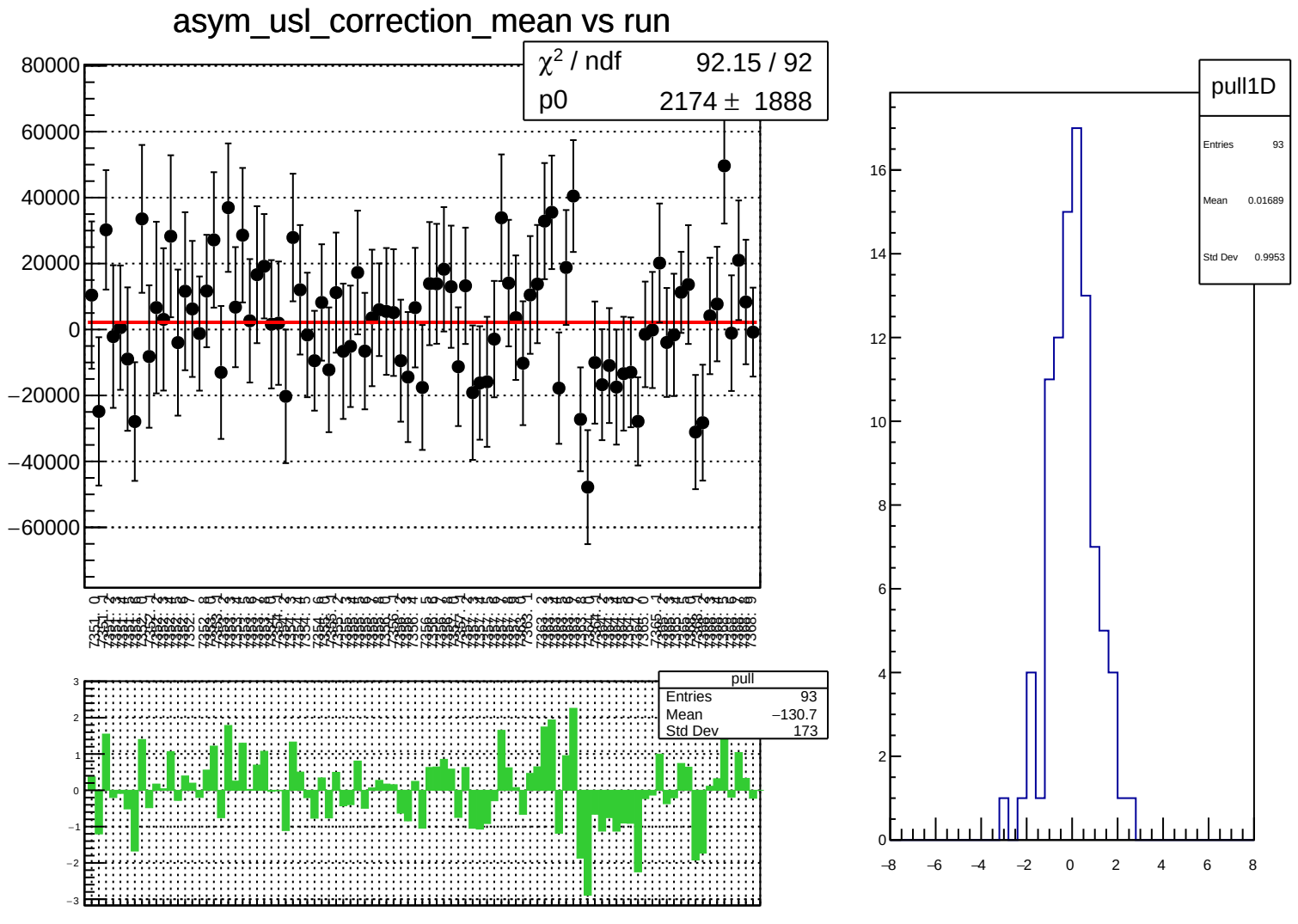

pull1D
Entries 93
Mean −0.00707
Std Dev 0.8002
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

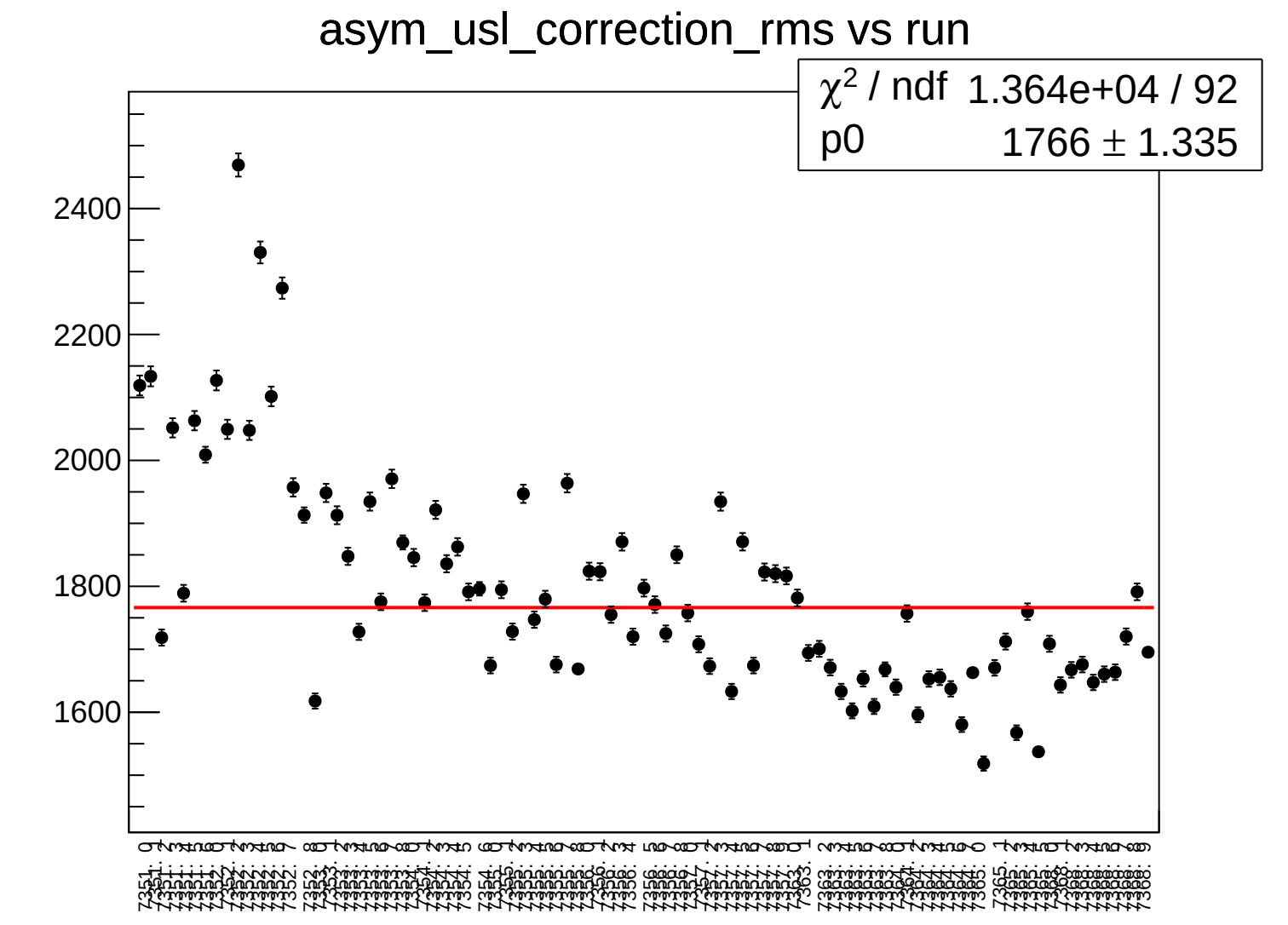

asym_ds_dd_rms vs run
χ² / ndf 1060 / 92
p0 91.29 ± 0.06876
98
96
94
92
90
88
86

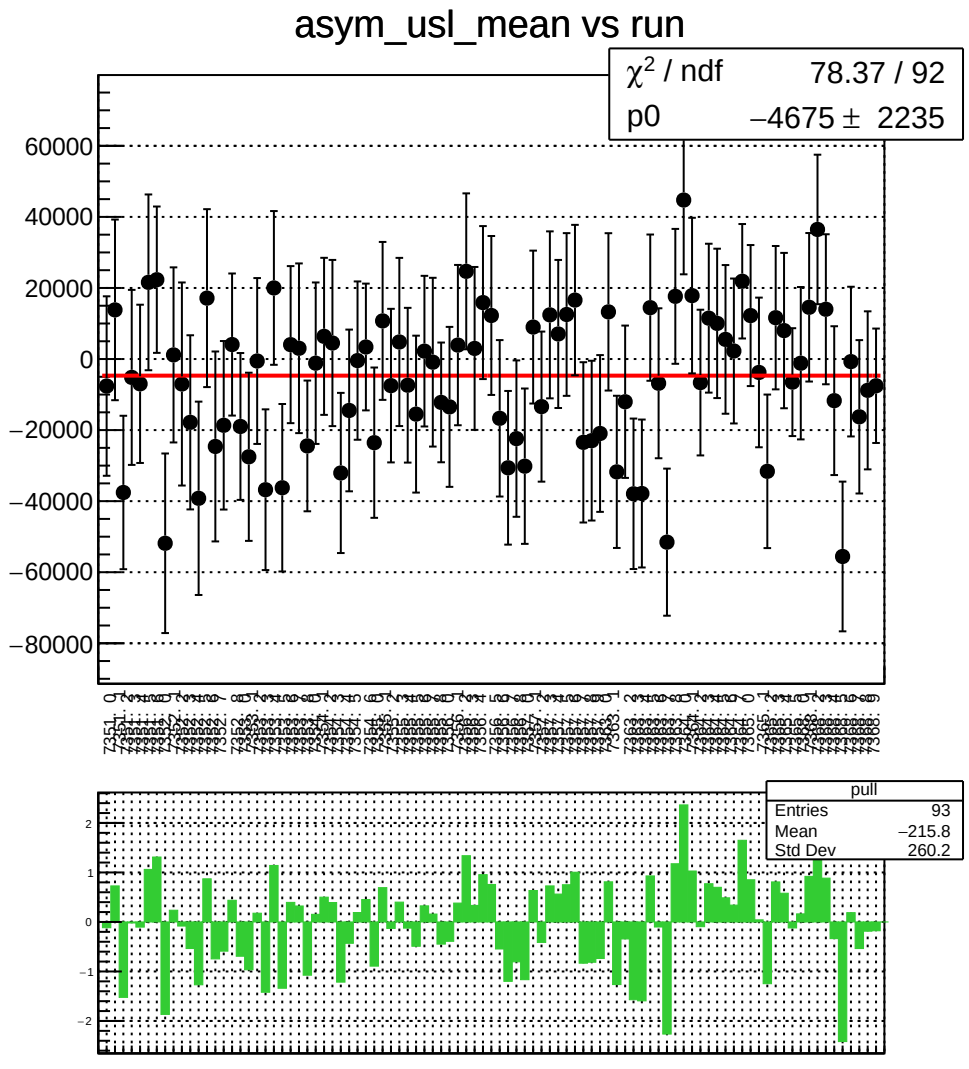

reg_asym_usl_mean vs run
χ² / ndf 66.94 / 92
p0 −2517 ± 1184
pull
Entries 93
Mean 486.9
Std Dev 437.5

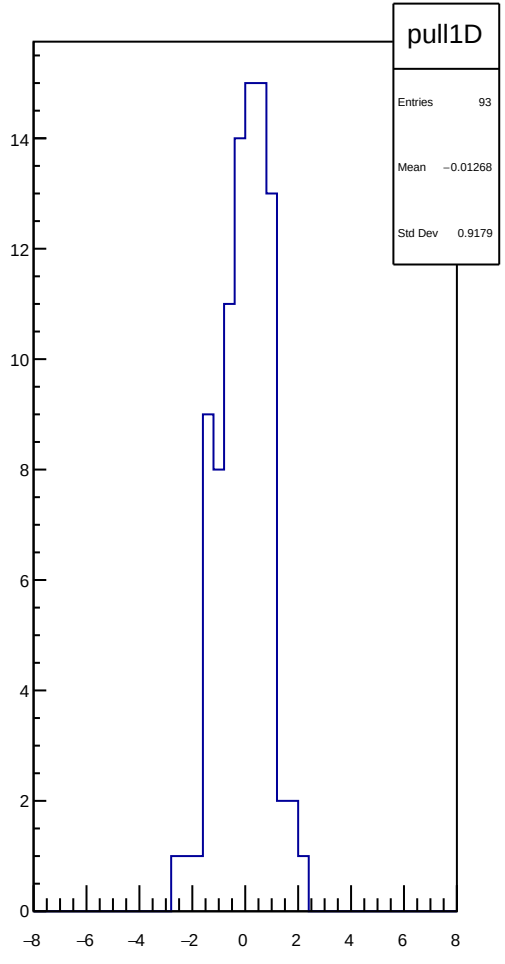

pull1D
Entries 93
Mean 0.00372
Std Dev 0.8484

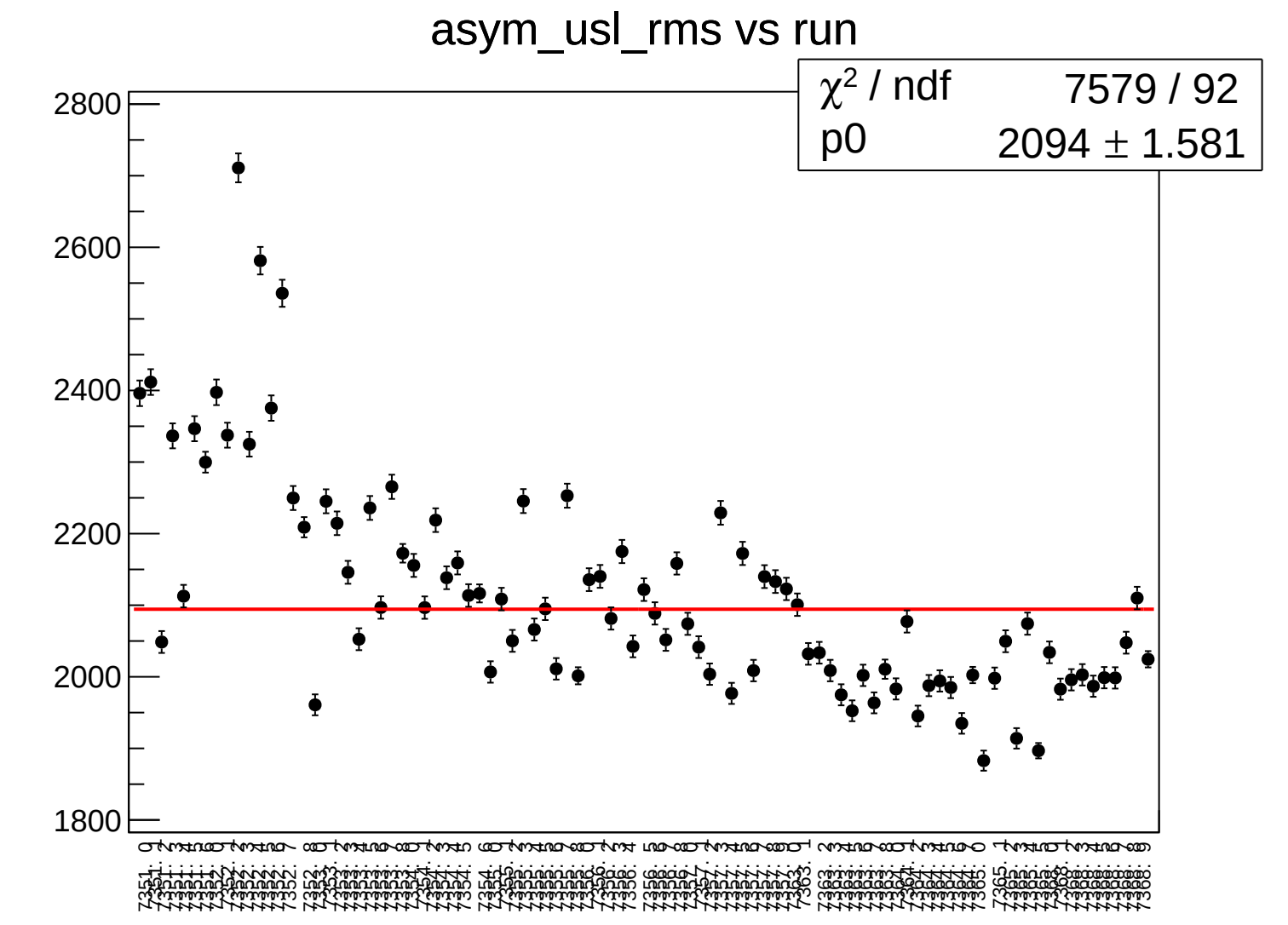

reg_asym_usl_rms vs run
χ² / ndf 96.94 / 92
p0 1111 ± 0.8369
1140
1130
1120
1110
1100
1090
1080

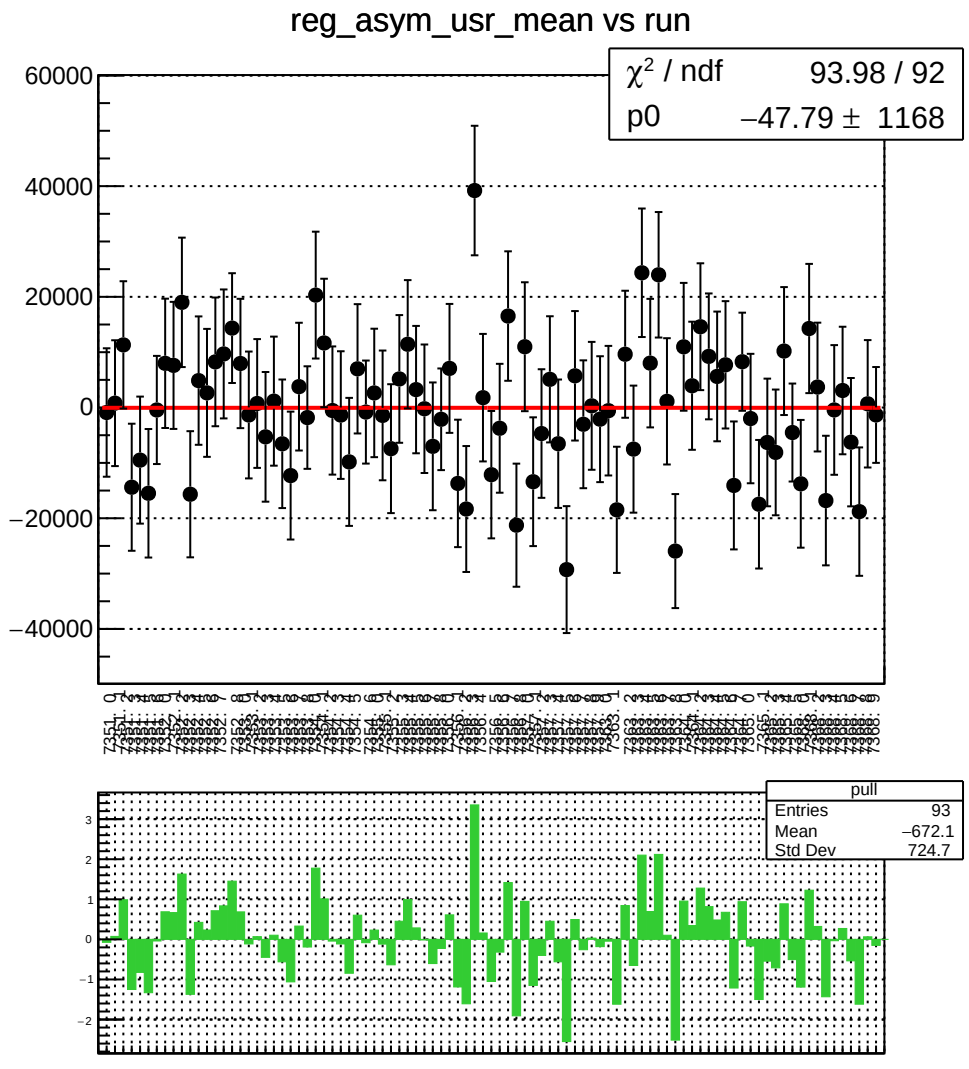

asym_usl_correction_mean vs run
χ² / ndf 92.15 / 92
p0 2174 ± 1888
pull
Entries 93
Mean −130.7
Std Dev 173
pull1D
Entries 93
Mean 0.01689
Std Dev 0.9953

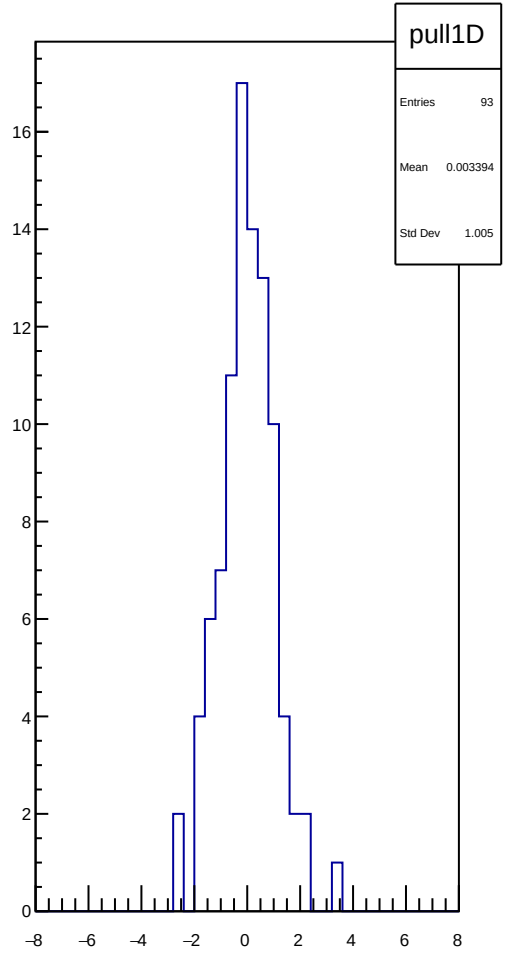

asym_usl_correction_rms vs run
χ² / ndf 1.364e+04 / 92
p0 1766 ± 1.335
2400
2200
2000
1800
1600

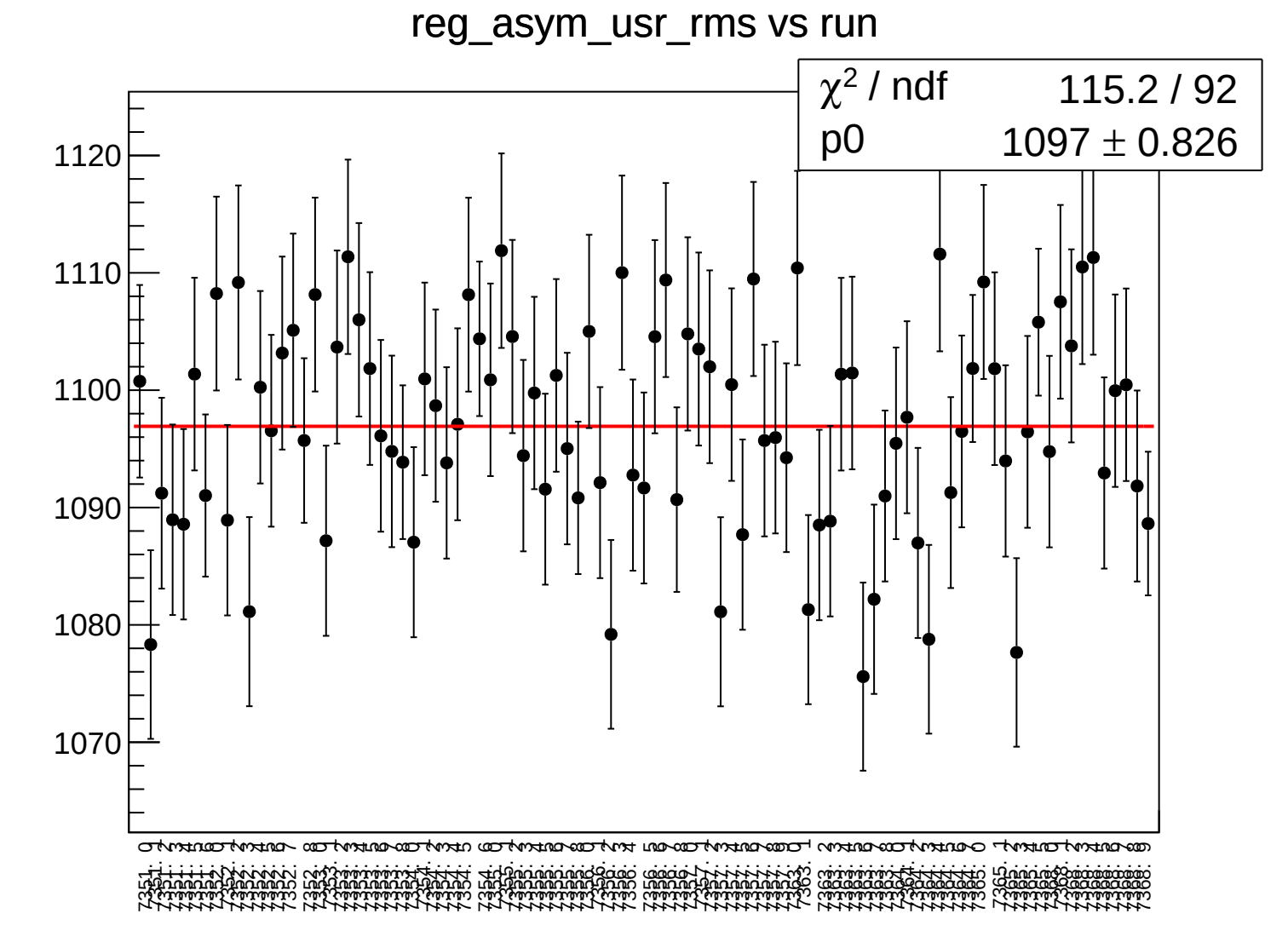

asym_usl_mean vs run
χ² / ndf 78.37 / 92
p0 −4675 ± 2235
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −215.8
Std Dev 260.2
2
1
0
−1
−2

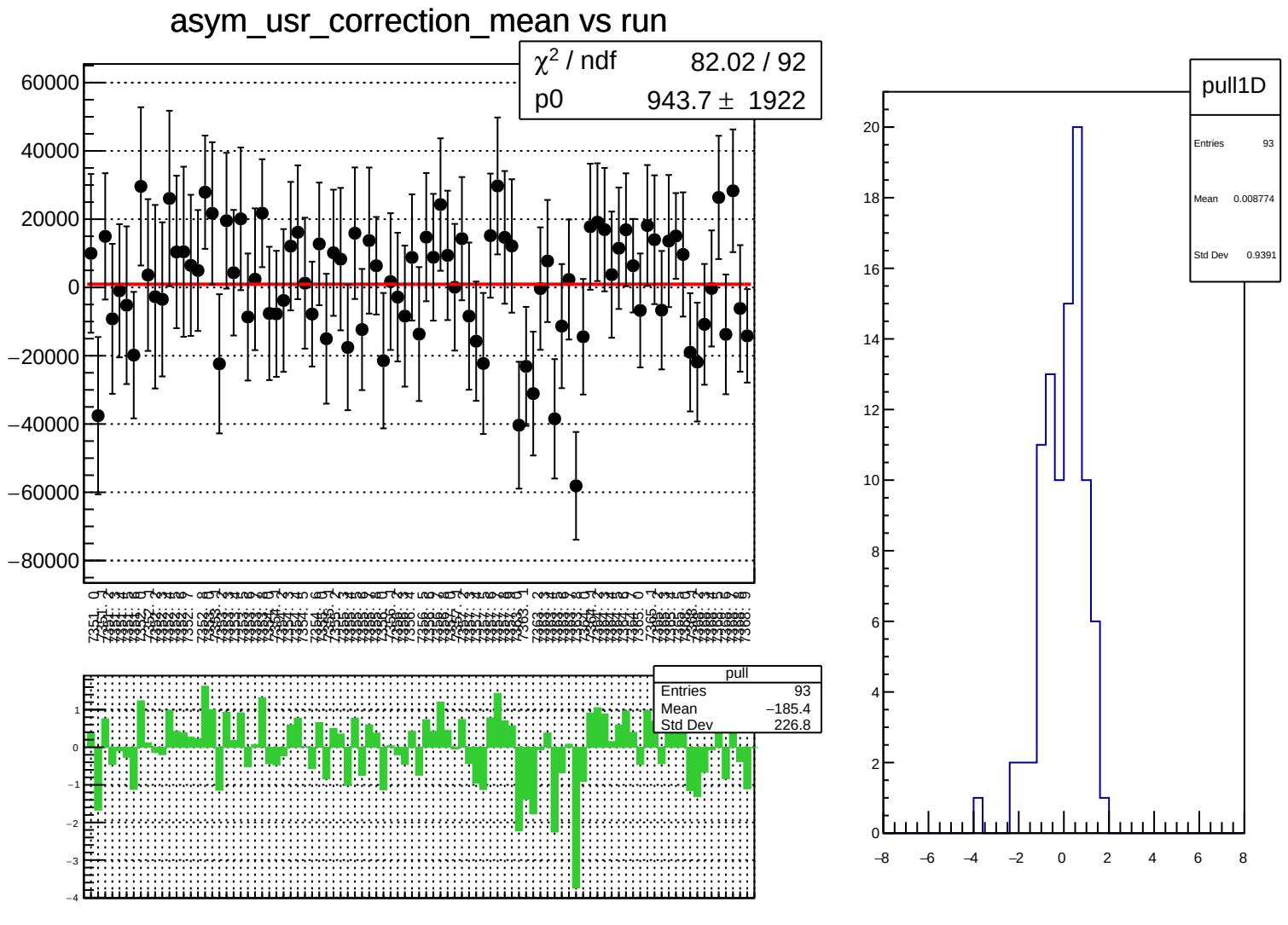

pull1D
Entries 93
Mean −0.01268
Std Dev 0.9179
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_usl_rms vs run
χ² / ndf 7579 / 92
p0 2094 ± 1.581
2800
2600
2400
2200
2000
1800

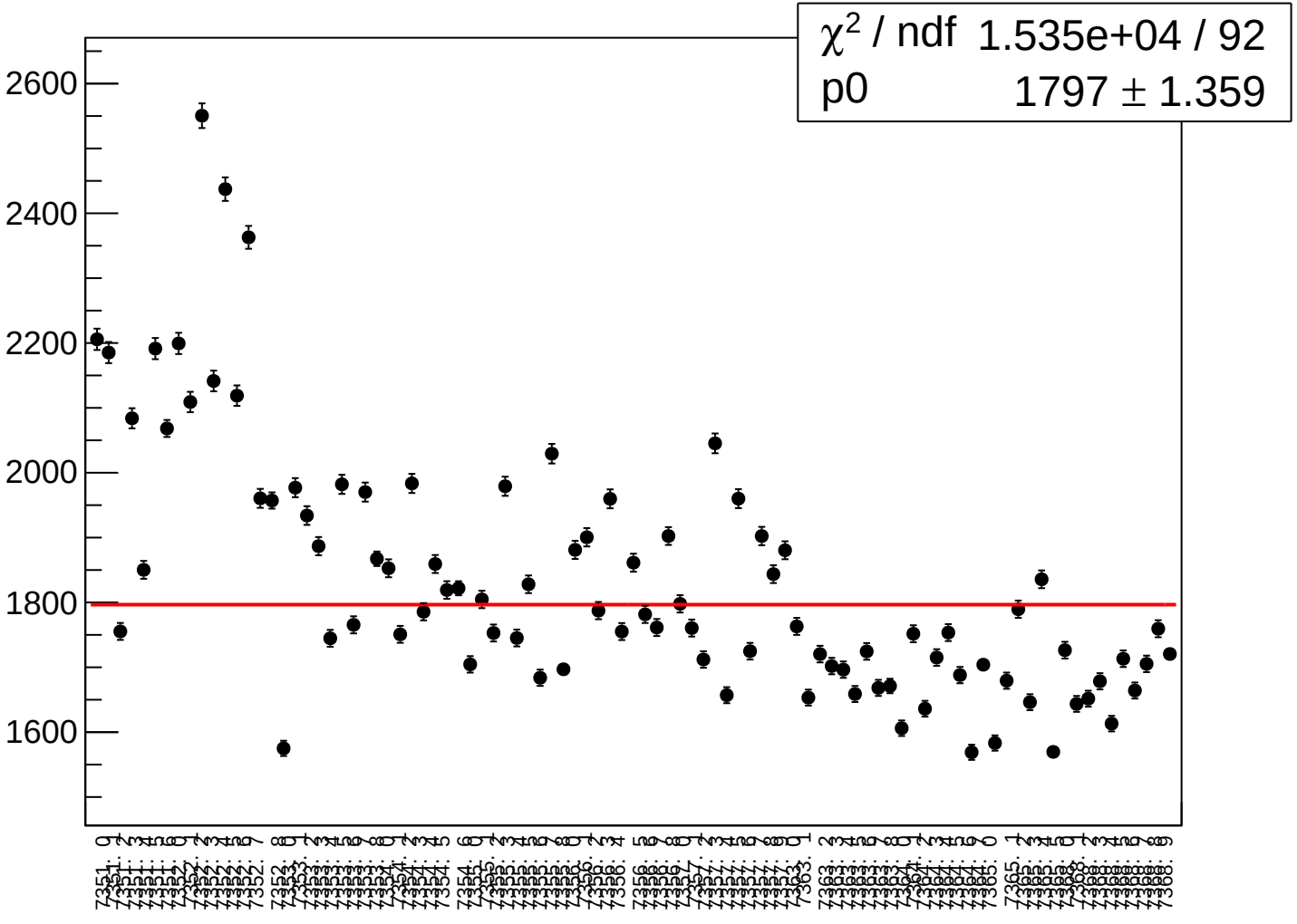

reg_asym_usr_mean vs run
χ² / ndf 93.98 / 92
p0 −47.79 ± 1168
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −672.1
Std Dev 724.7
3
2
1
0
−1
−2

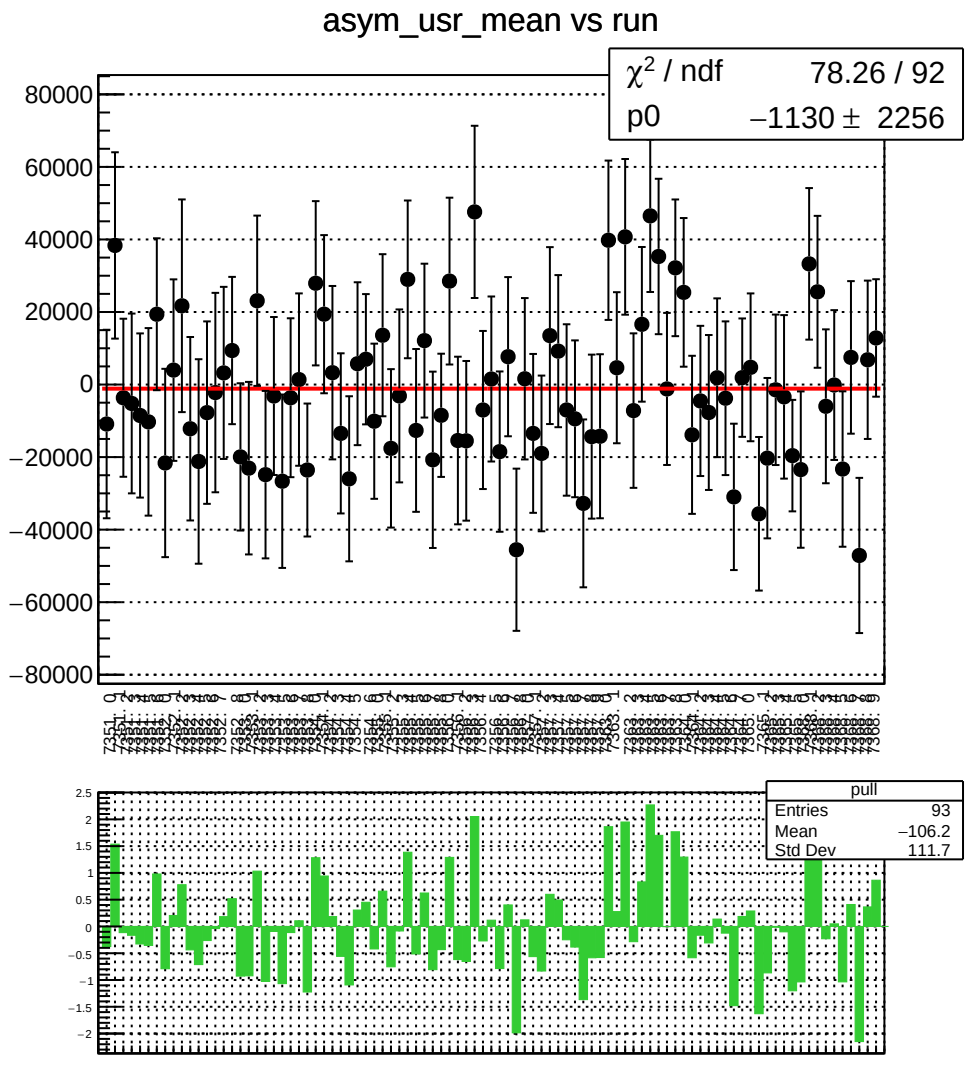

pull1D
Entries 93
Mean 0.003394
Std Dev 1.005
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

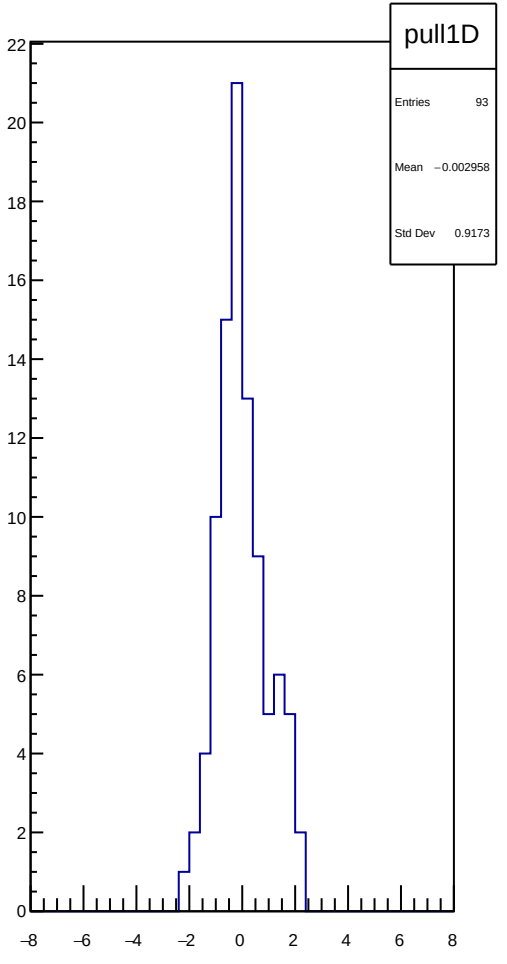

reg_asym_usr_rms vs run
χ^2 / ndf 115.2 / 92
p0 1097 ± 0.826
1120
1110
1100
1090
1080
1070

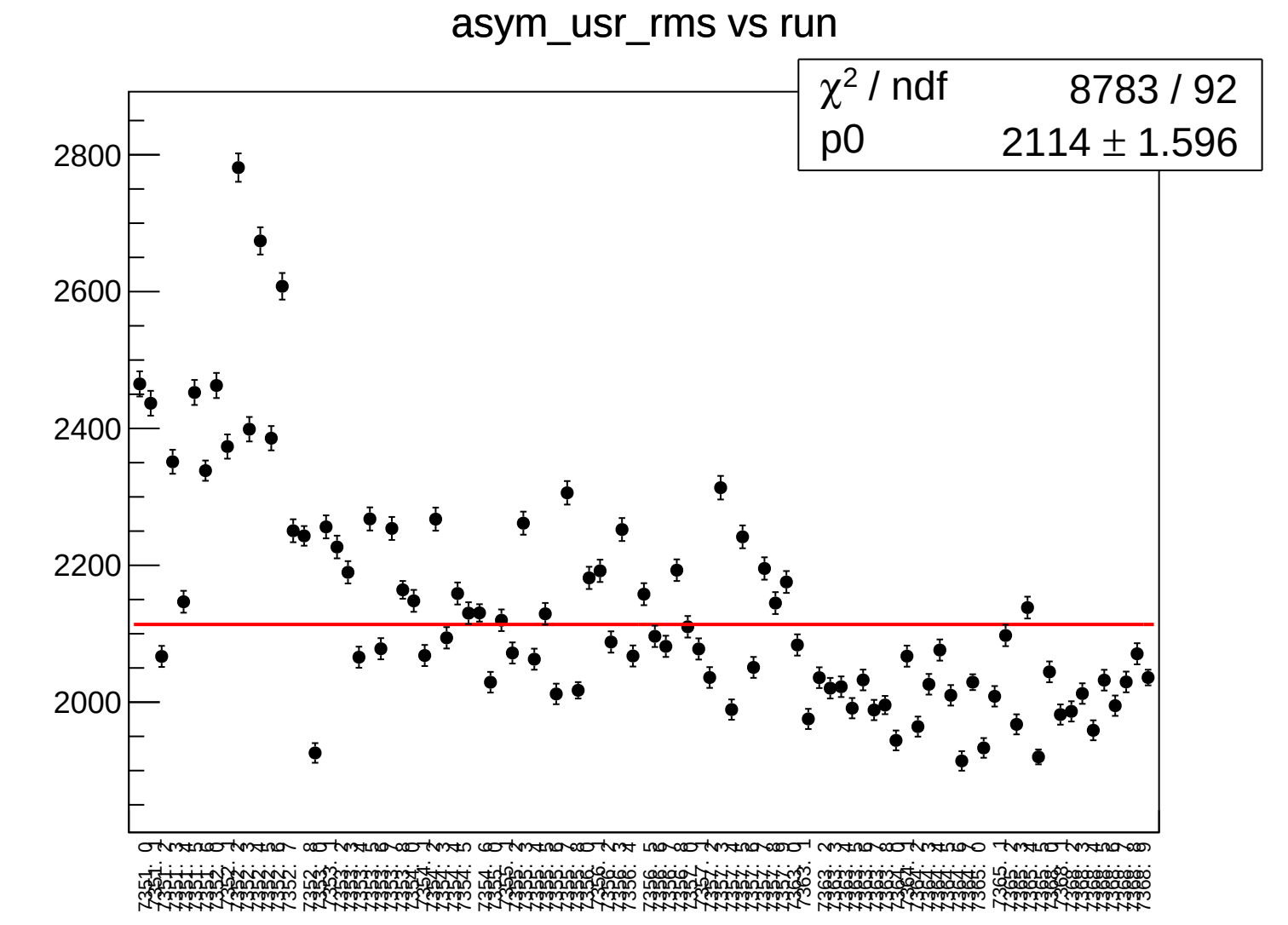

asym_usr_correction_mean vs run
χ² / ndf 82.02 / 92
p0 943.7 ± 1922
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −185.4
Std Dev 226.8
pull1D
Entries 93
Mean 0.008774
Std Dev 0.9391

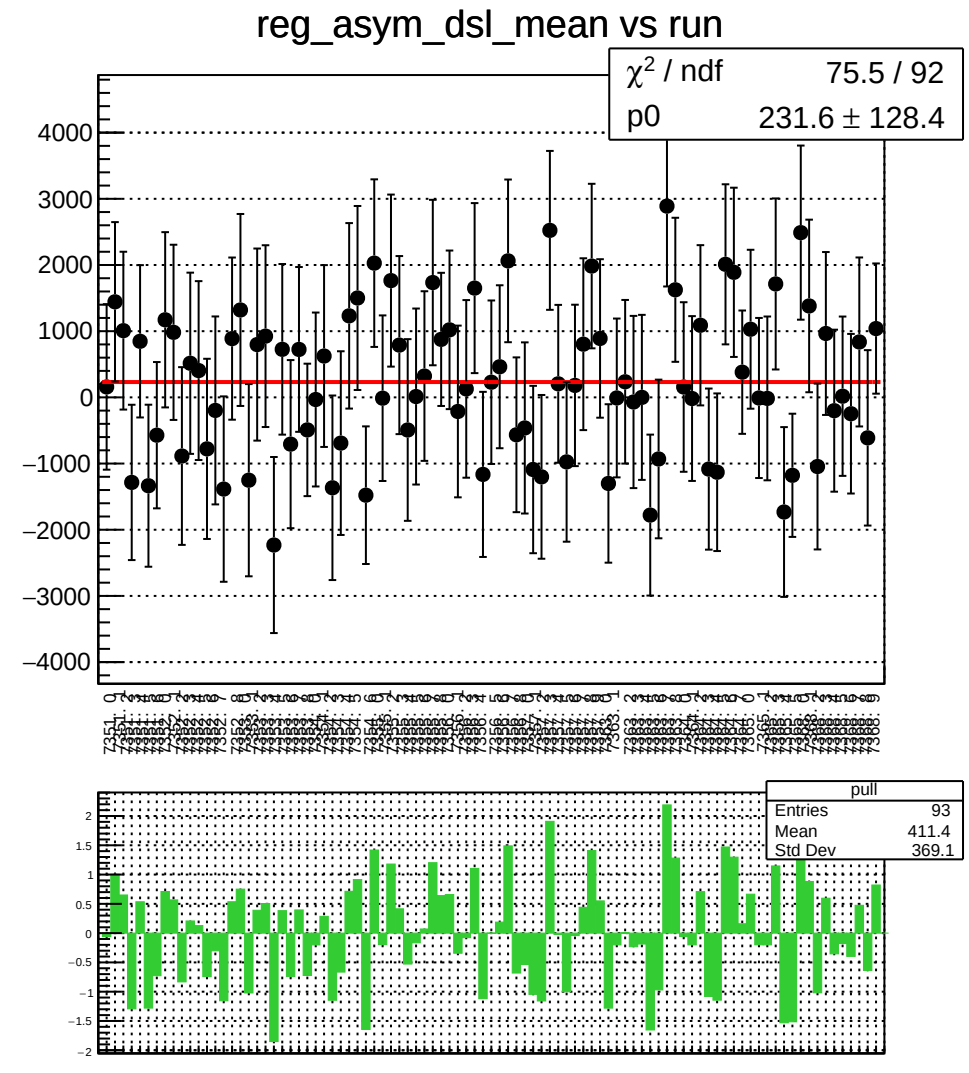
asym_usr_correction_rms vs run

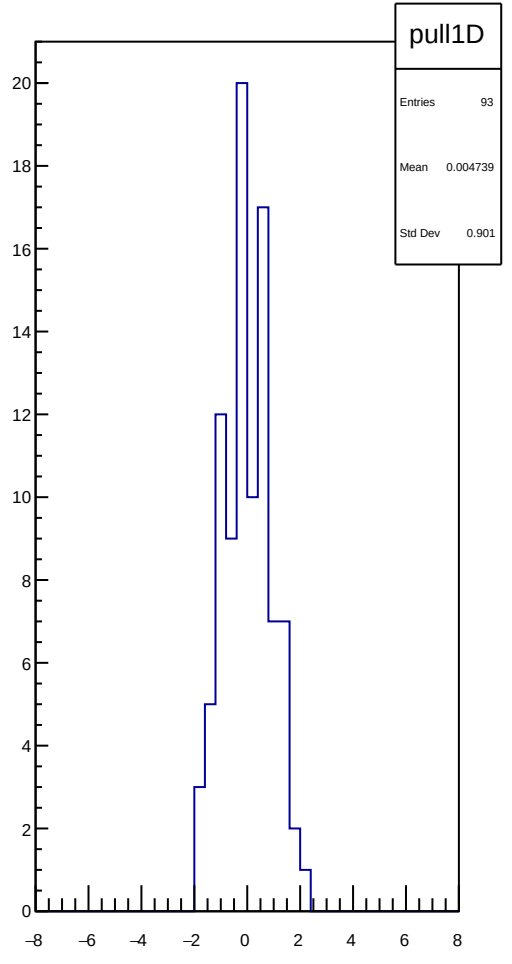


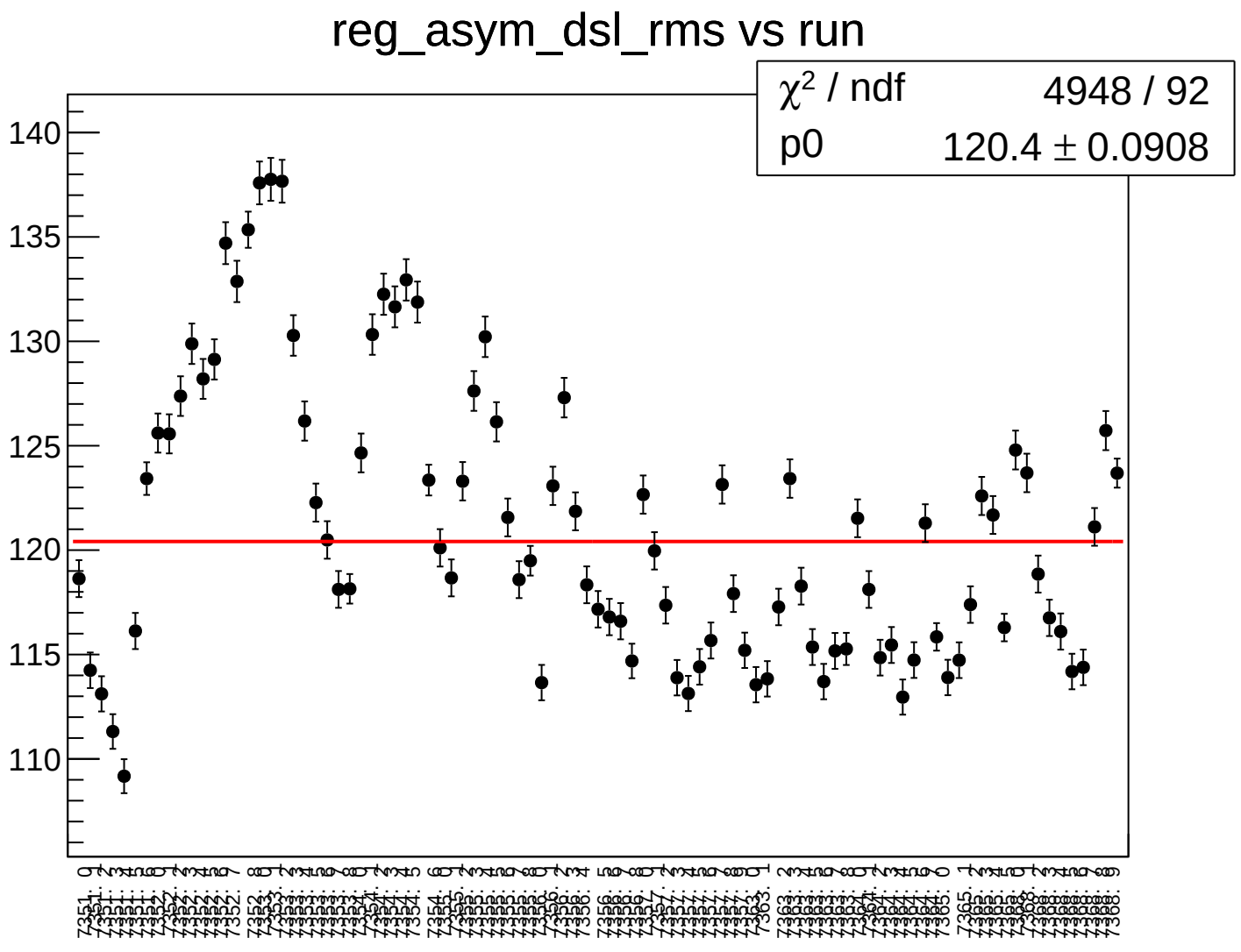

asym_usr_mean vs run
χ² / ndf 78.26 / 92
p0 −1130 ± 2256
pull
Entries 93
Mean −106.2
Std Dev 111.7

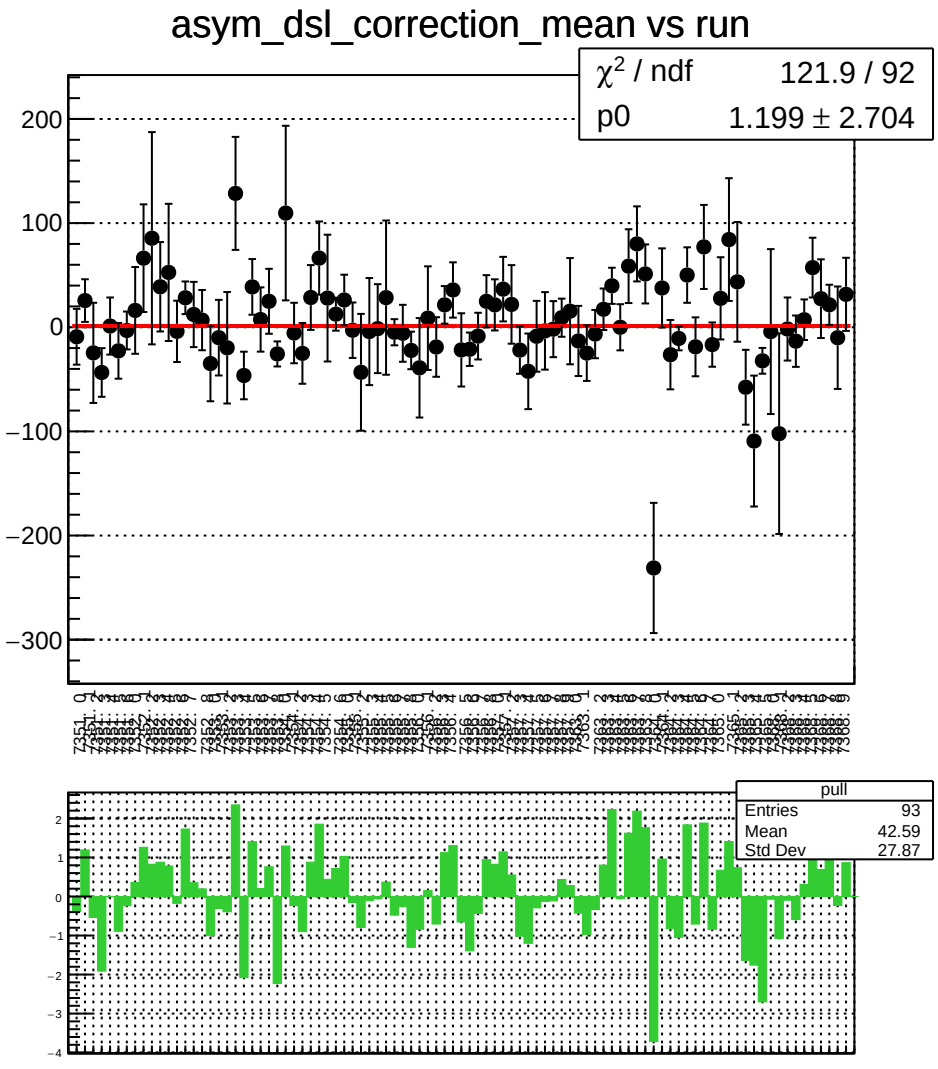

pull1D
Entries 93
Mean −0.002958
Std Dev 0.9173

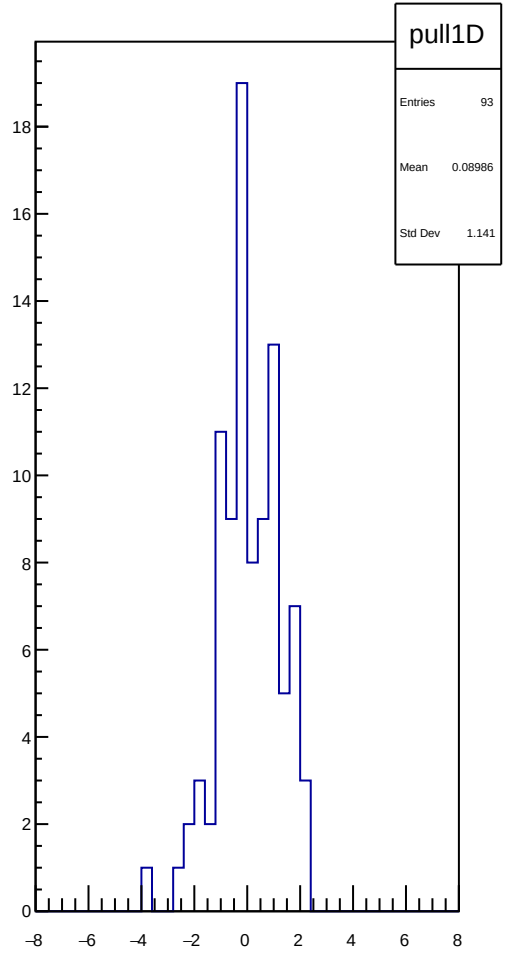

asym_usr_rms vs run
χ² / ndf 8783 / 92
p0 2114 ± 1.596
2800
2600
2400
2200
2000

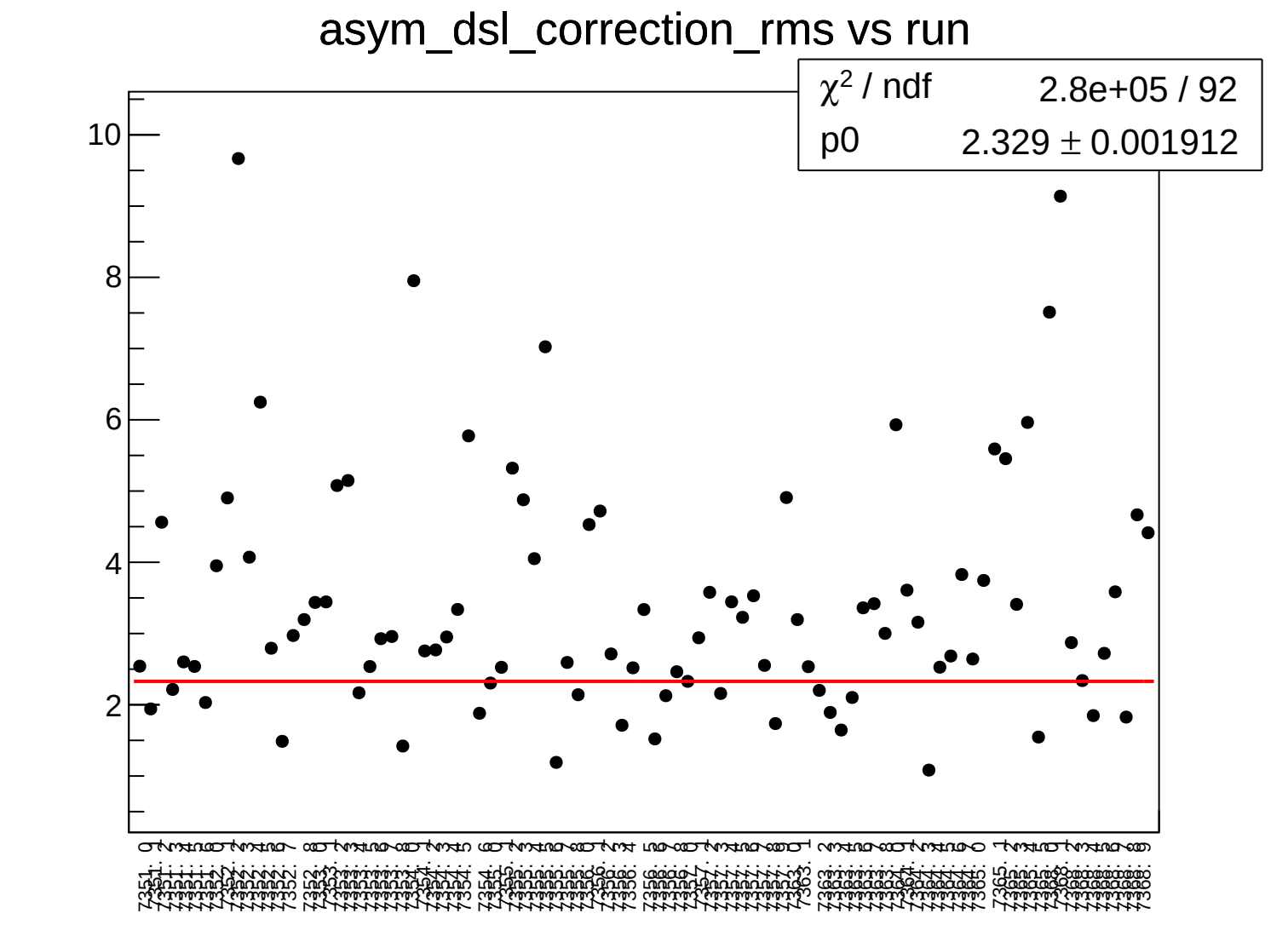

reg_asym_dsl_mean vs run
χ² / ndf 75.5 / 92
p0 231.6 ± 128.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean 411.4
Std Dev 369.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

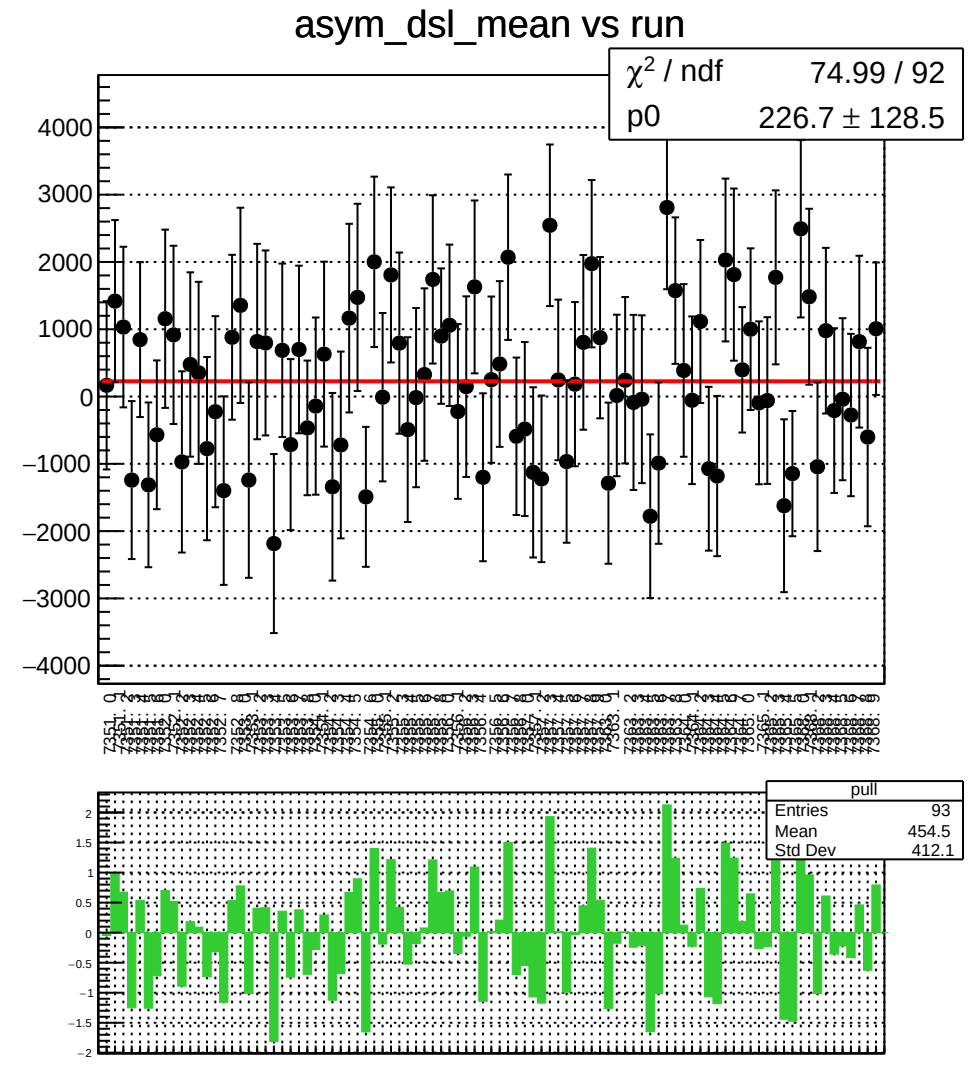

pull1D
Entries 93
Mean 0.004739
Std Dev 0.901
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

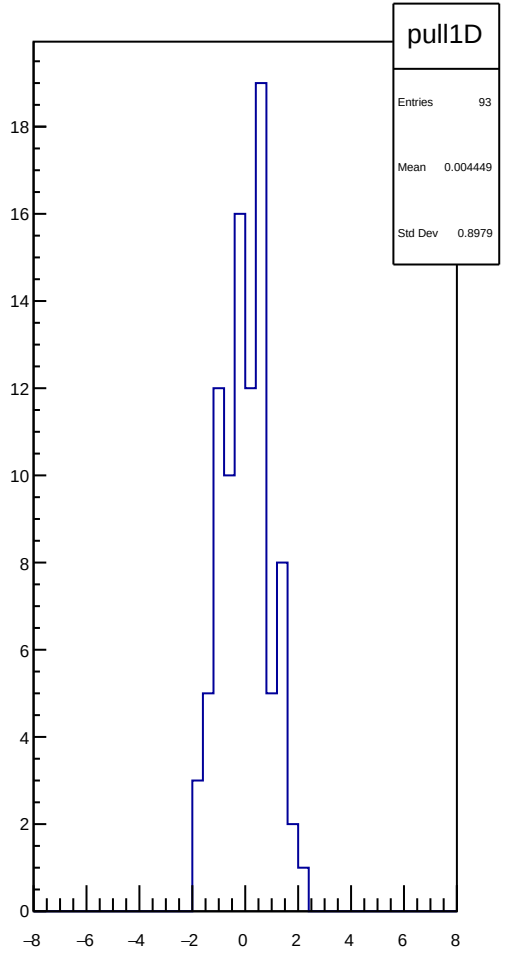

reg_asym_dsl_rms vs run
χ² / ndf 4948 / 92
p0 120.4 ± 0.0908
140
135
130
125
120
115
110

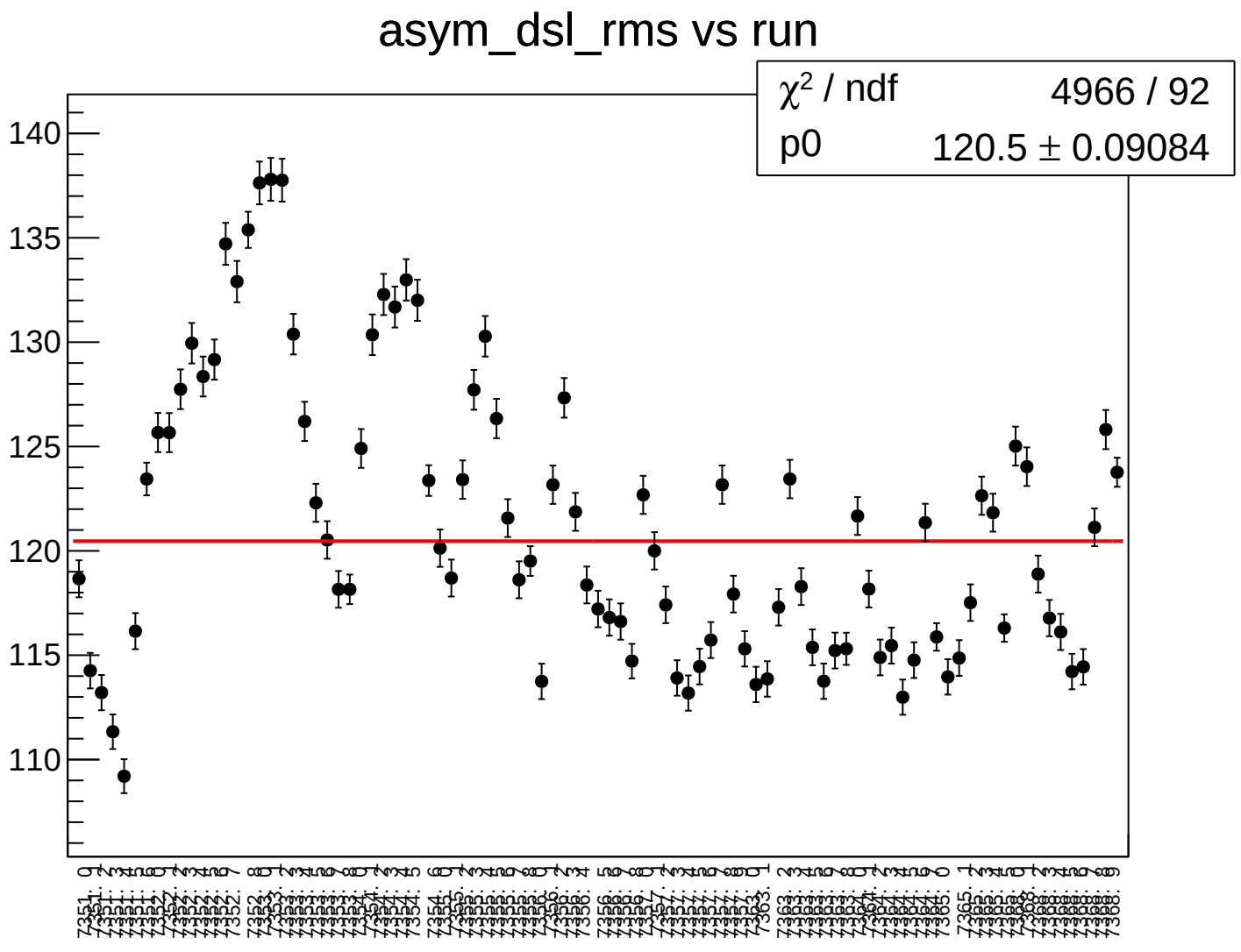

asym_dsl_correction_mean vs run
χ² / ndf 121.9 / 92
p0 1.199 ± 2.704
200
100
0
−100
−200
−300
pull
Entries 93
Mean 42.59
Std Dev 27.87
2
1
0
−1
−2
−3
−4

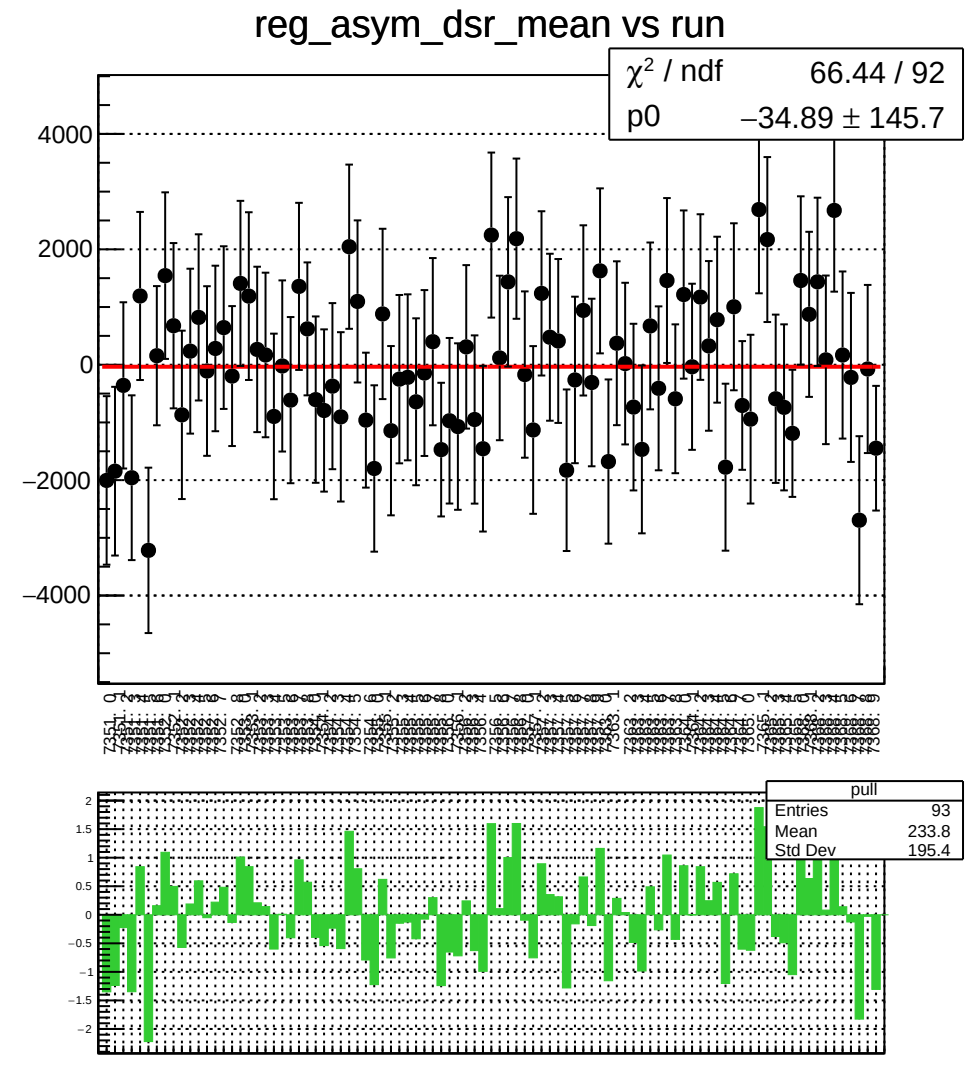

pull1D
Entries 93
Mean 0.08986
Std Dev 1.141
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

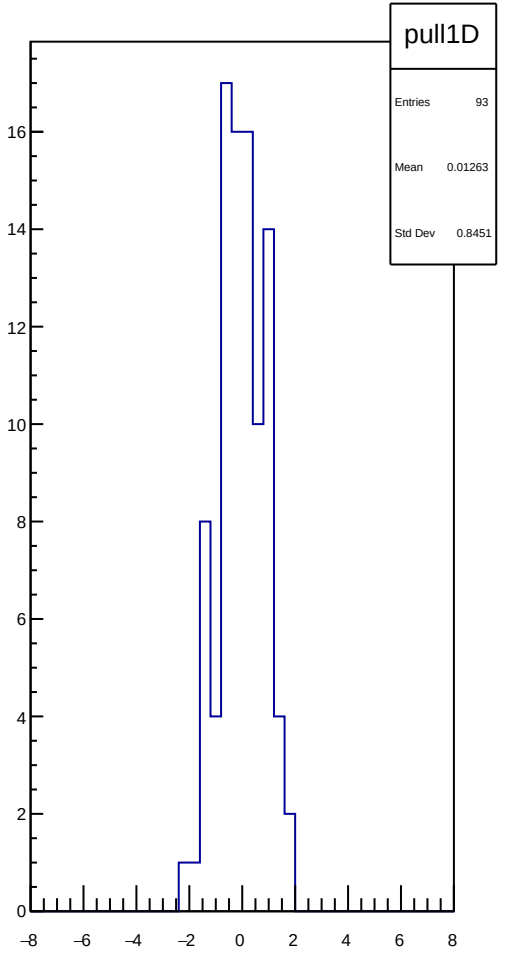

asym_dsl_correction_rms vs run
χ^2 / ndf 2.8e+05 / 92
p0 2.329 ± 0.001912
10
8
6
4
2

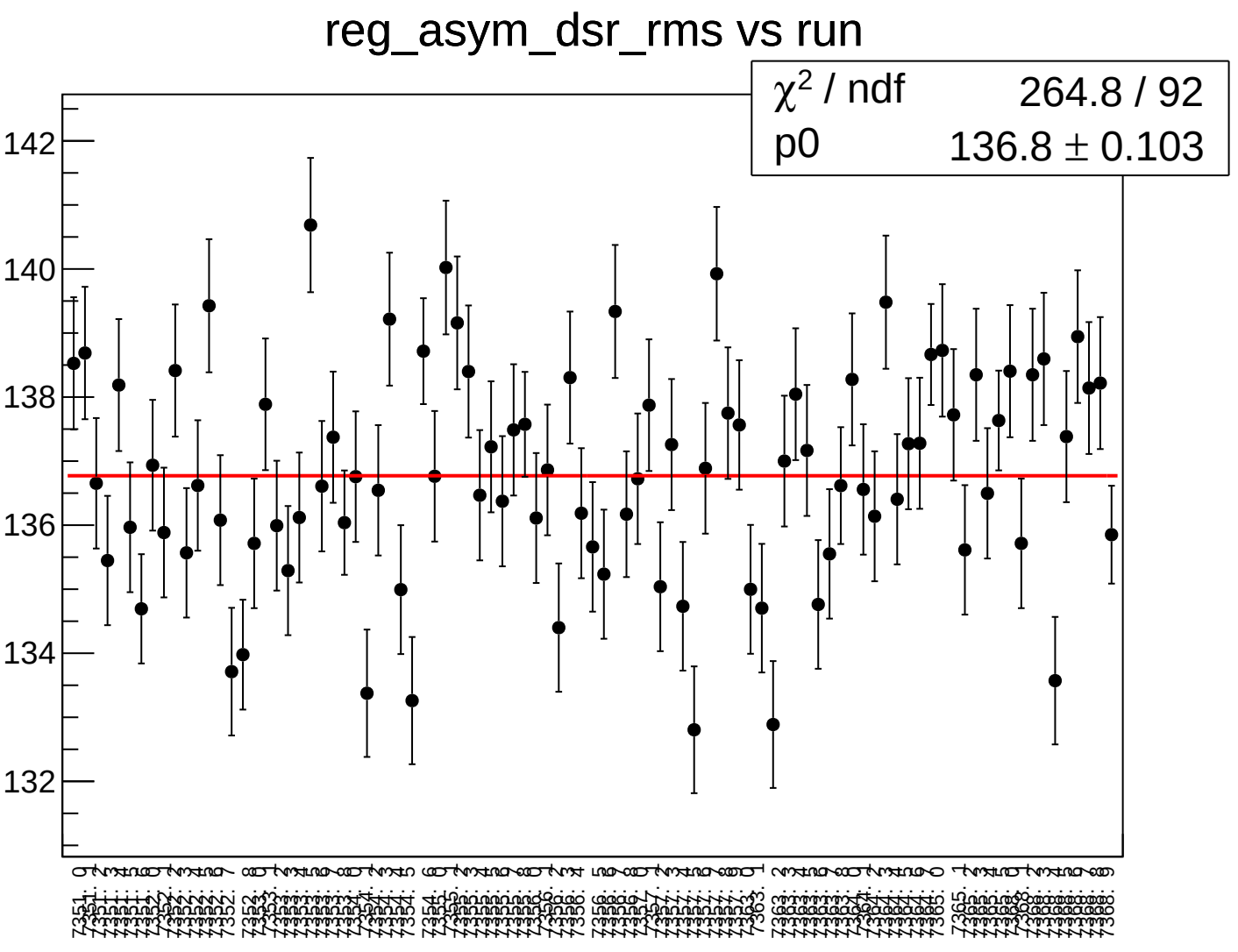

asym_dsl_mean vs run
χ² / ndf 74.99 / 92
p0 226.7 ± 128.5
pull
Entries 93
Mean 454.5
Std Dev 412.1

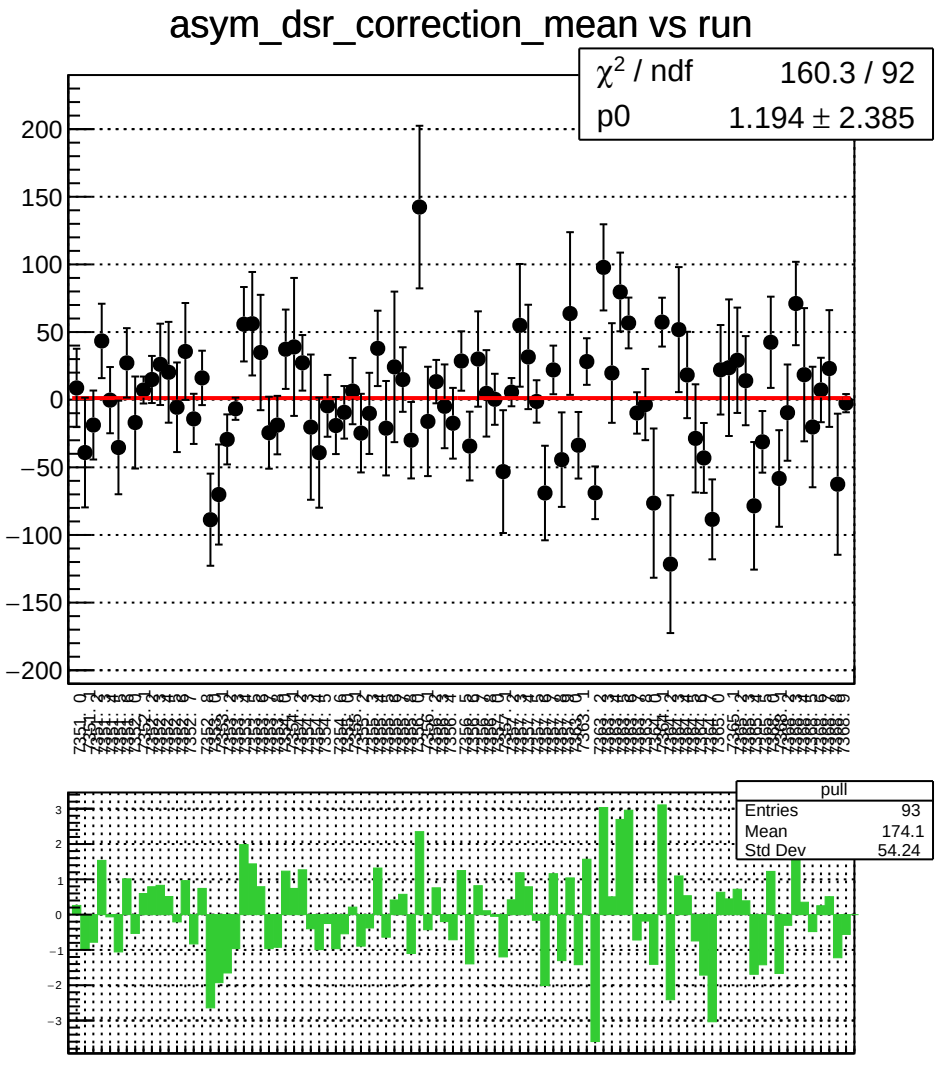

pull1D
Entries 93
Mean 0.004449
Std Dev 0.8979

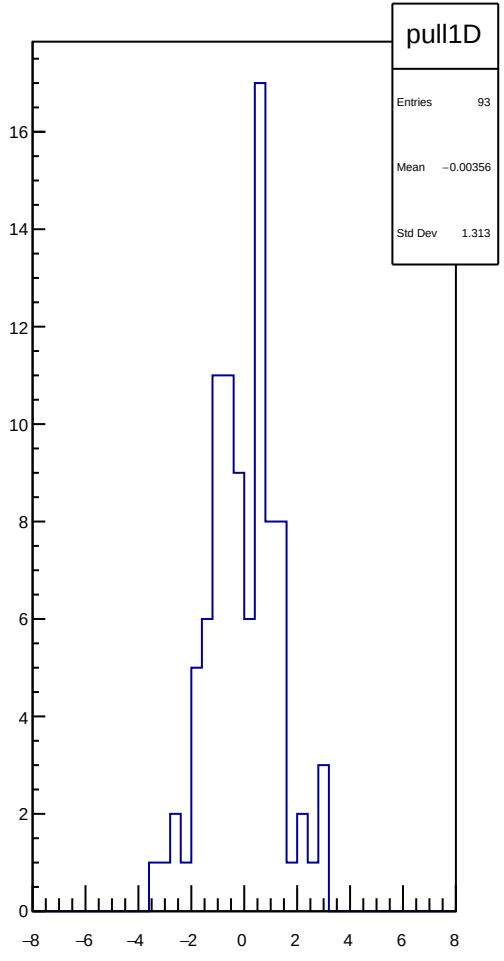

asym_dsl_rms vs run
χ^2 / ndf 4966 / 92
p0 120.5 ± 0.09084
140
135
130
125
120
115
110

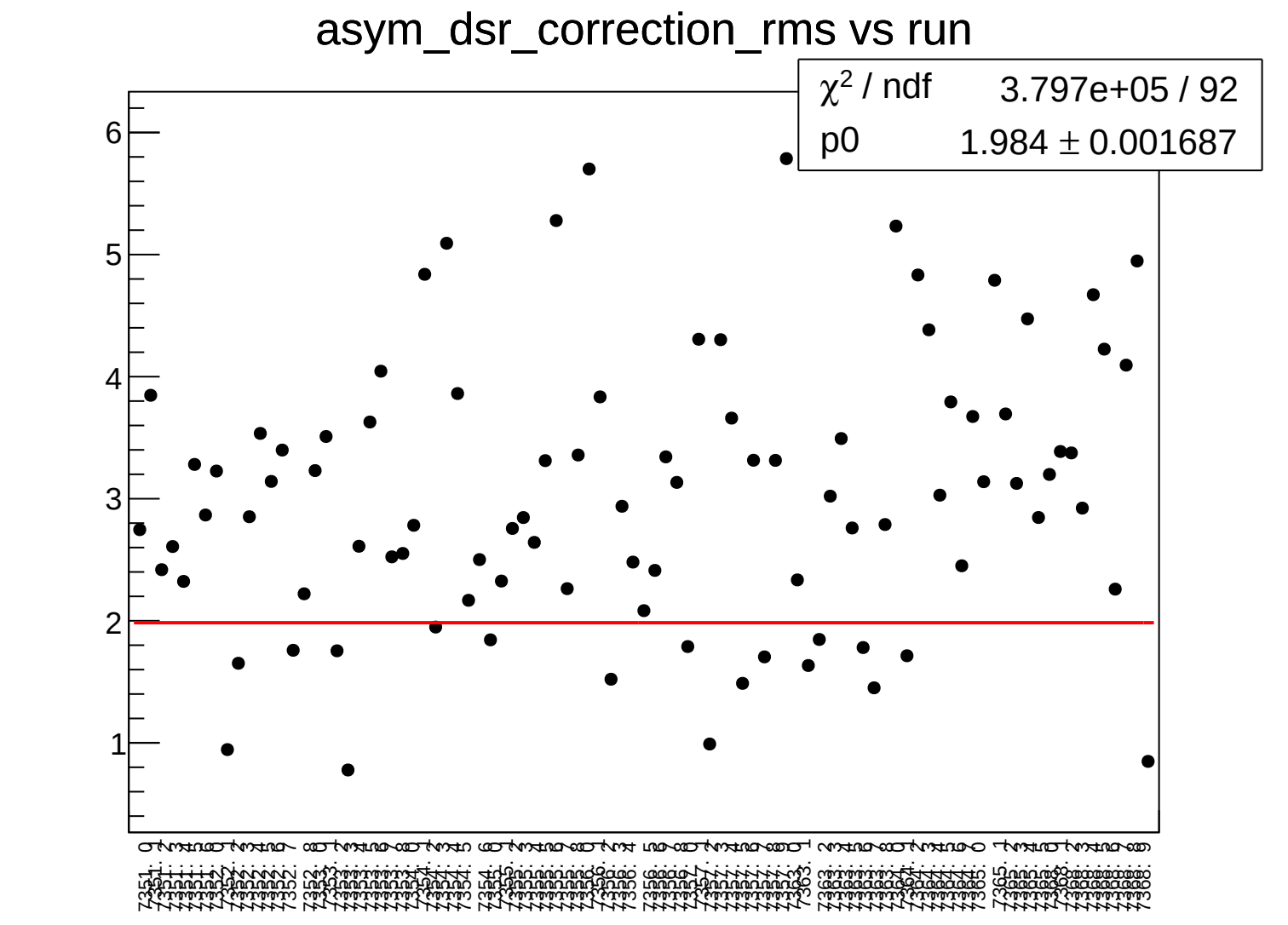

reg_asym_dsr_mean vs run
χ² / ndf 66.44 / 92
p0 −34.89 ± 145.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 233.8
Std Dev 195.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

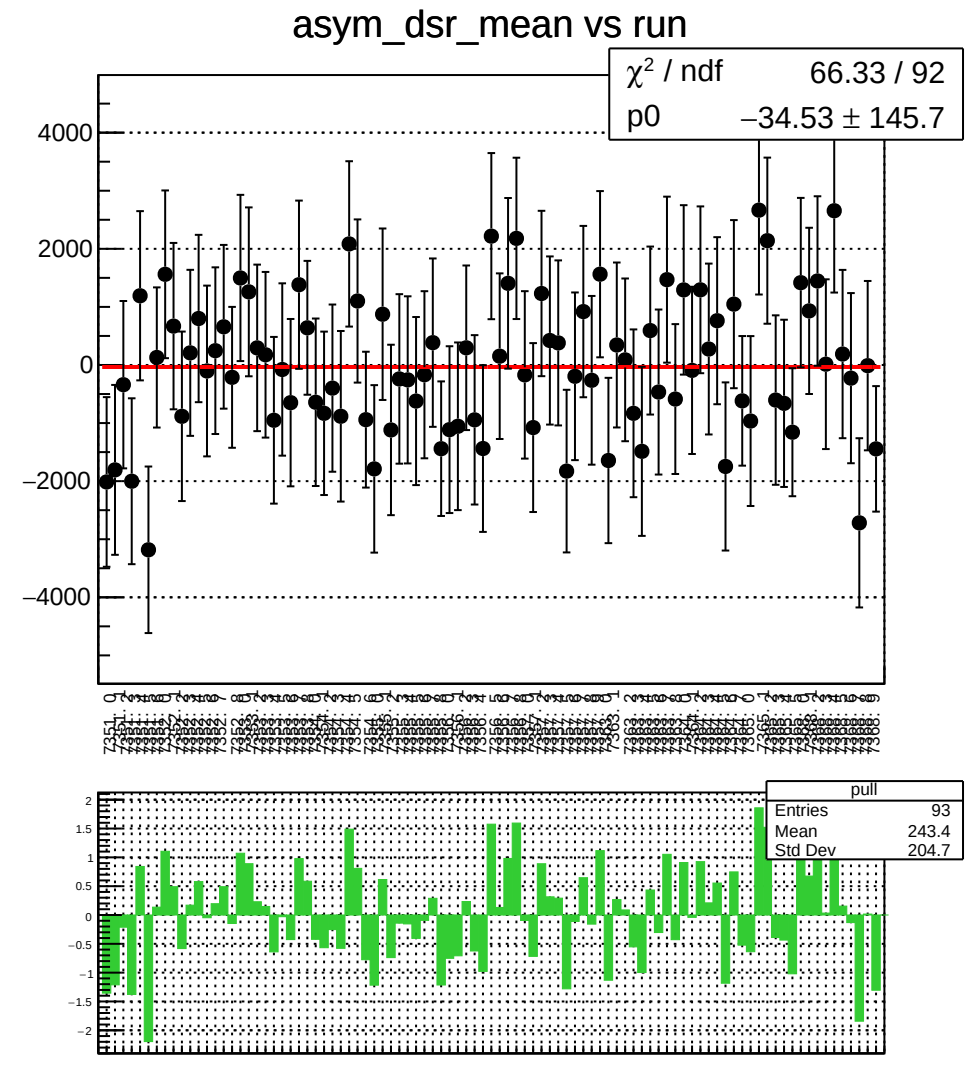

pull1D
Entries 93
Mean 0.01263
Std Dev 0.8451
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

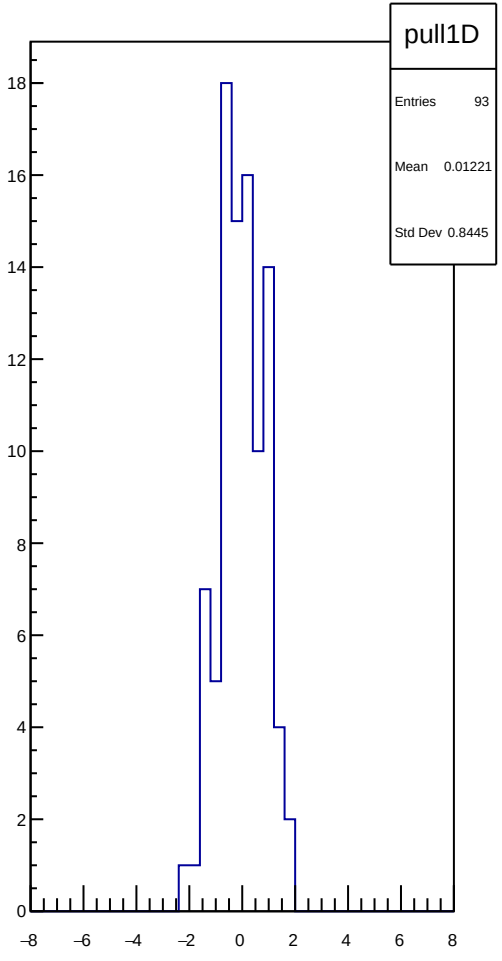

reg_asym_dsr_rms vs run
χ^2 / ndf 264.8 / 92
p0 136.8 ± 0.103
142
140
138
136
134
132

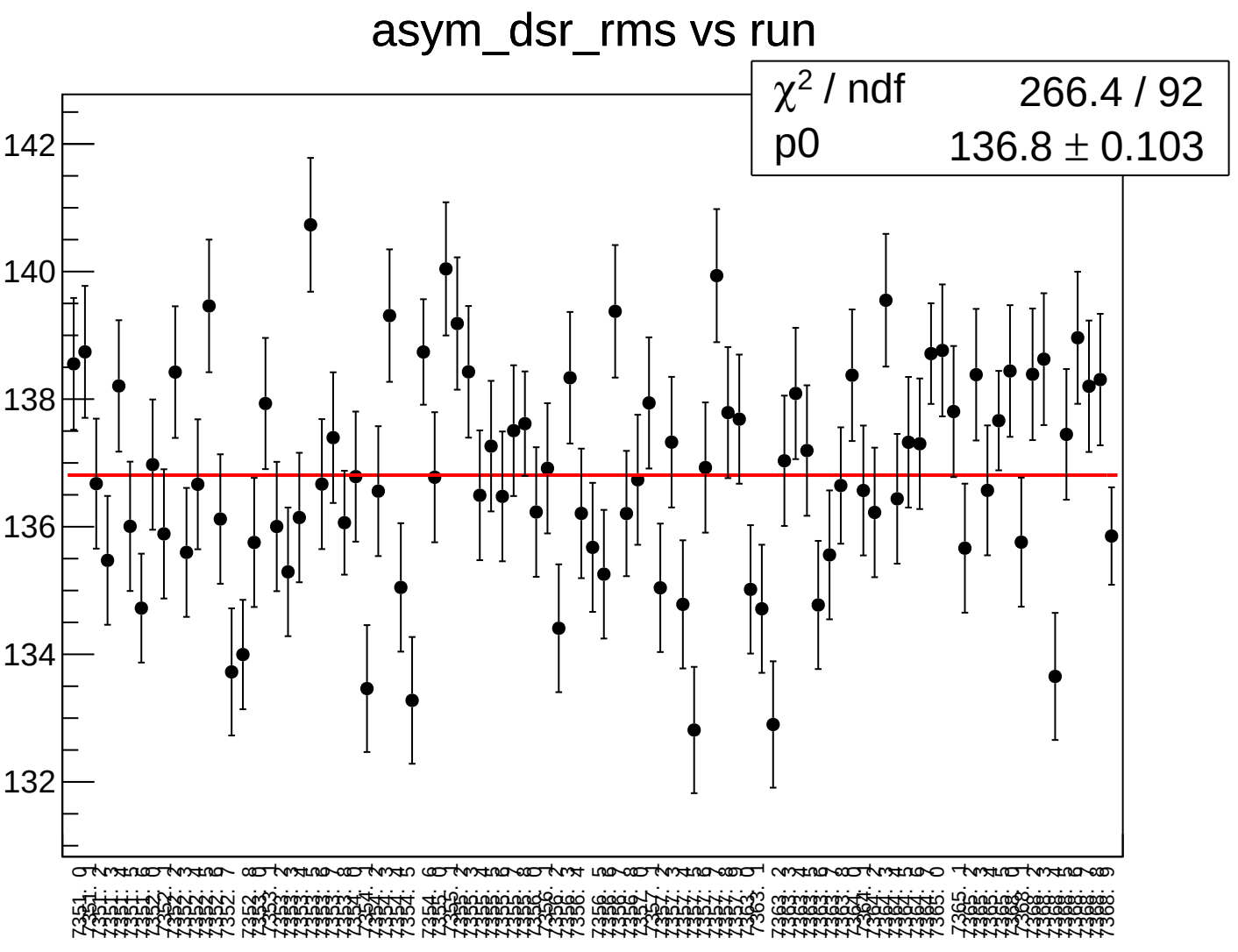

asym_dsr_correction_mean vs run
χ² / ndf 160.3 / 92
p0 1.194 ± 2.385
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 174.1
Std Dev 54.24
3
2
1
0
−1
−2
−3

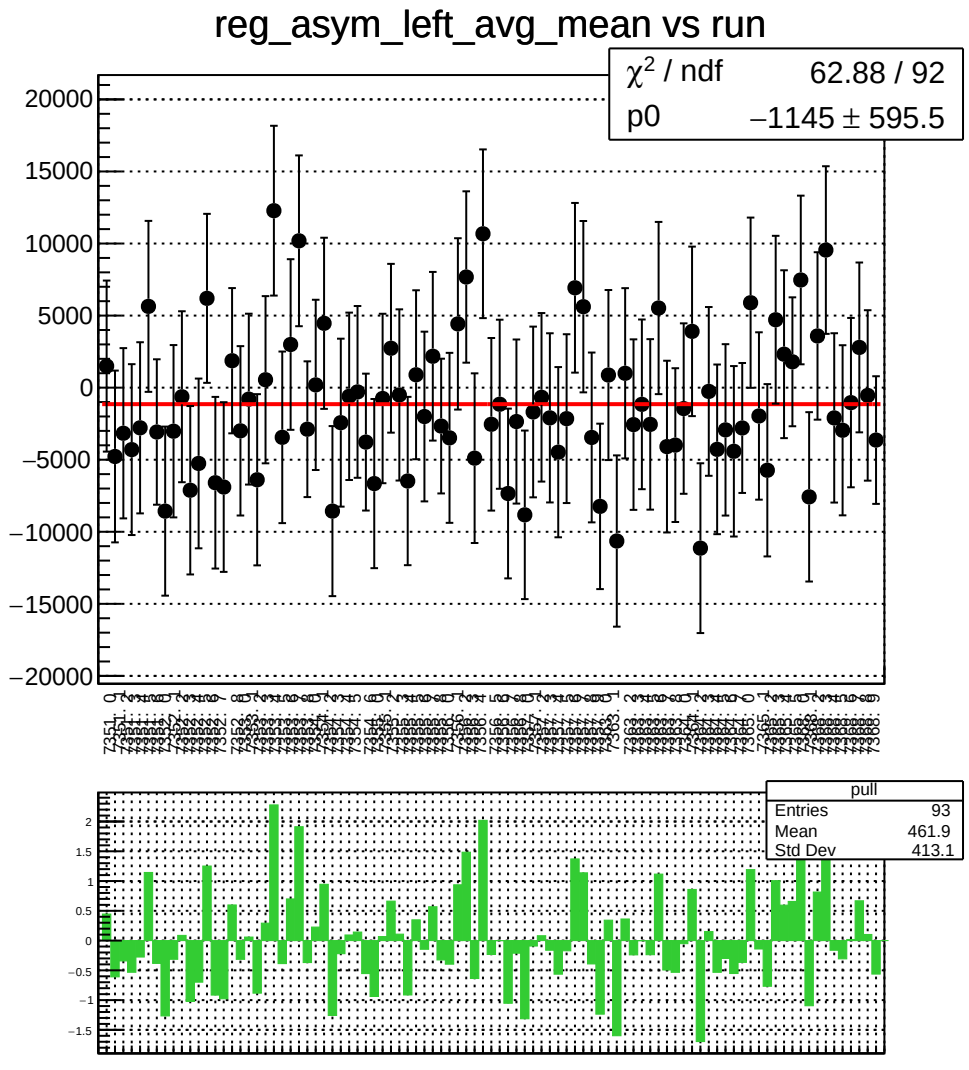

pull1D
Entries 93
Mean −0.00356
Std Dev 1.313
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

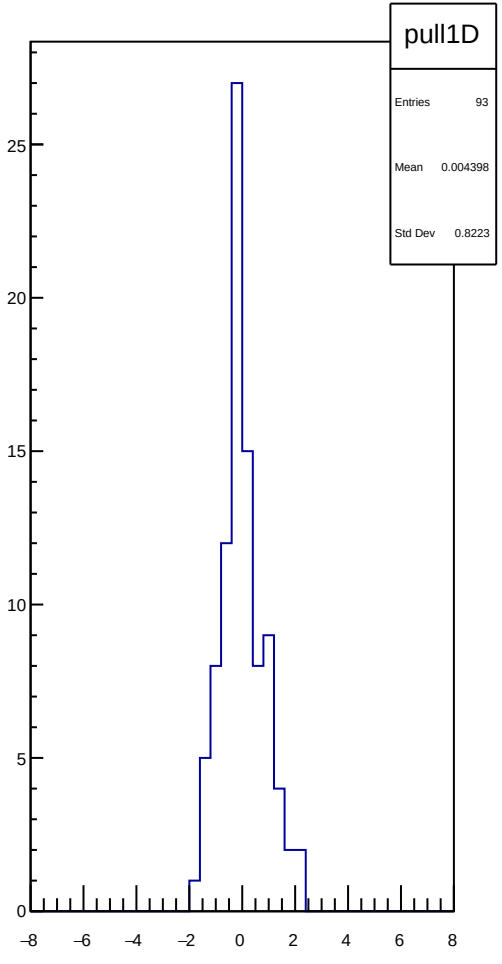

asym_dsr_correction_rms vs run
χ^2 / ndf 3.797e+05 / 92
p0 1.984 ± 0.001687
6
5
4
3
2
1

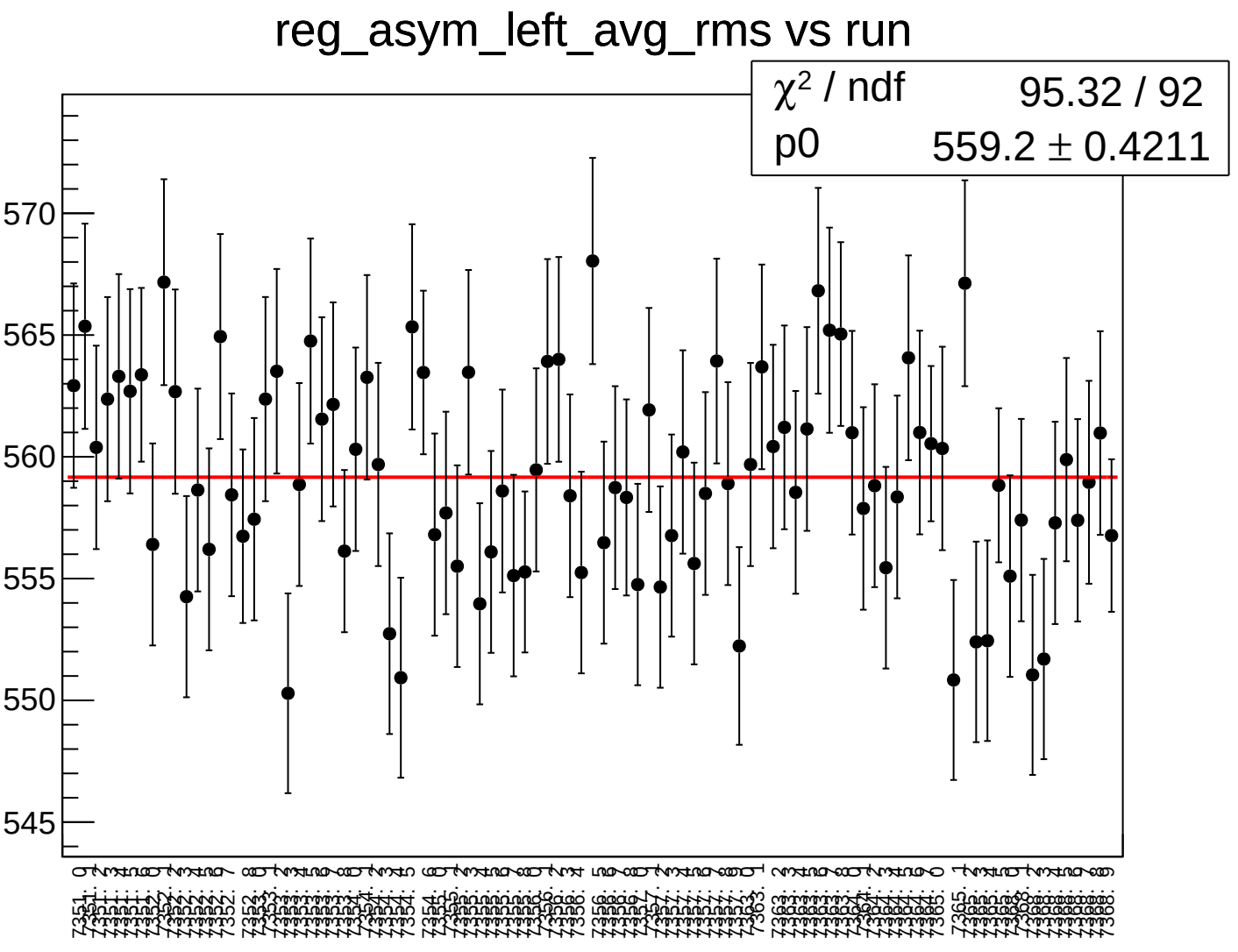

asym_dsr_mean vs run
χ² / ndf 66.33 / 92
p0 −34.53 ± 145.7
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 243.4
Std Dev 204.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

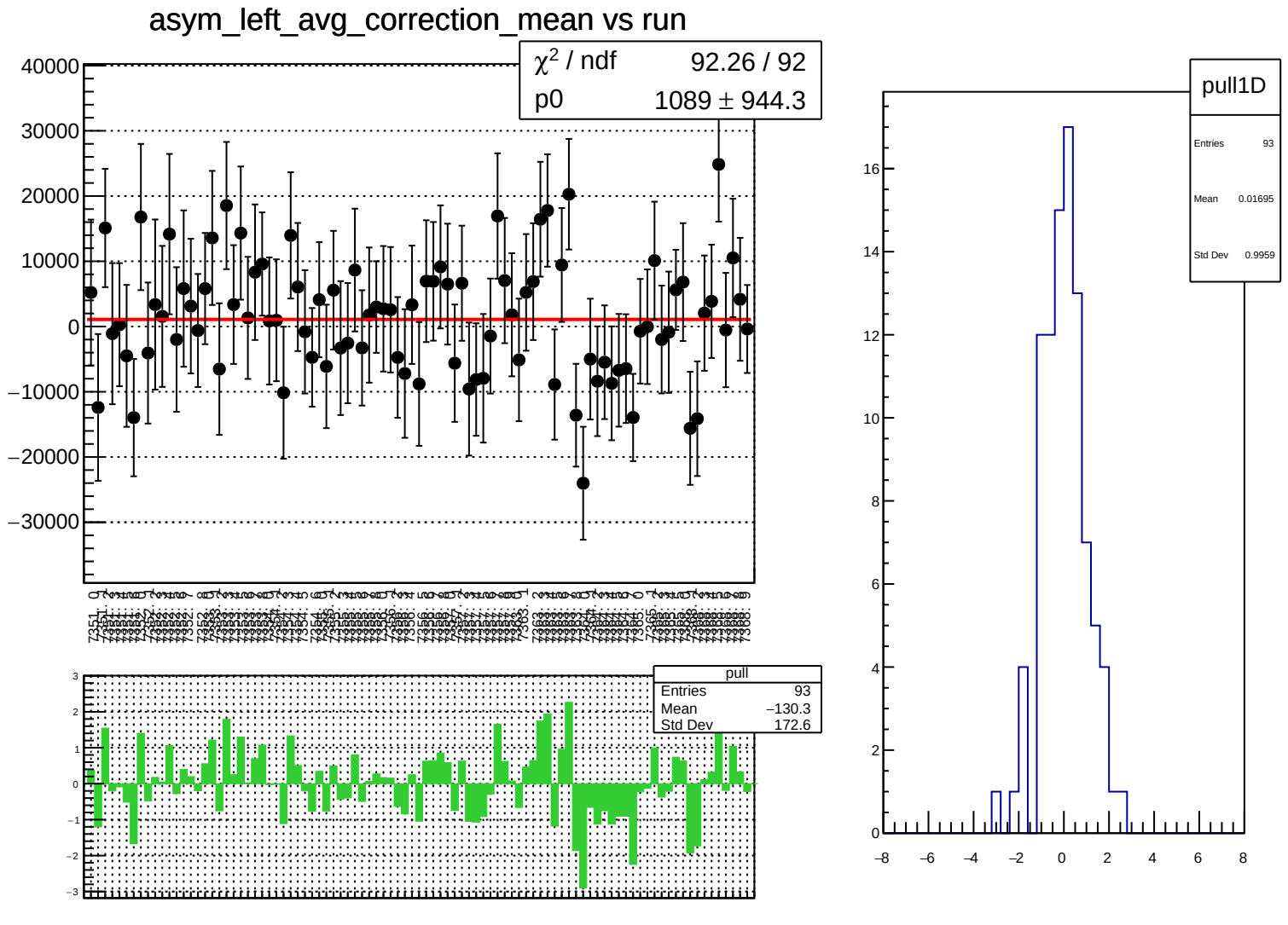

pull1D
Entries 93
Mean 0.01221
Std Dev 0.8445
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

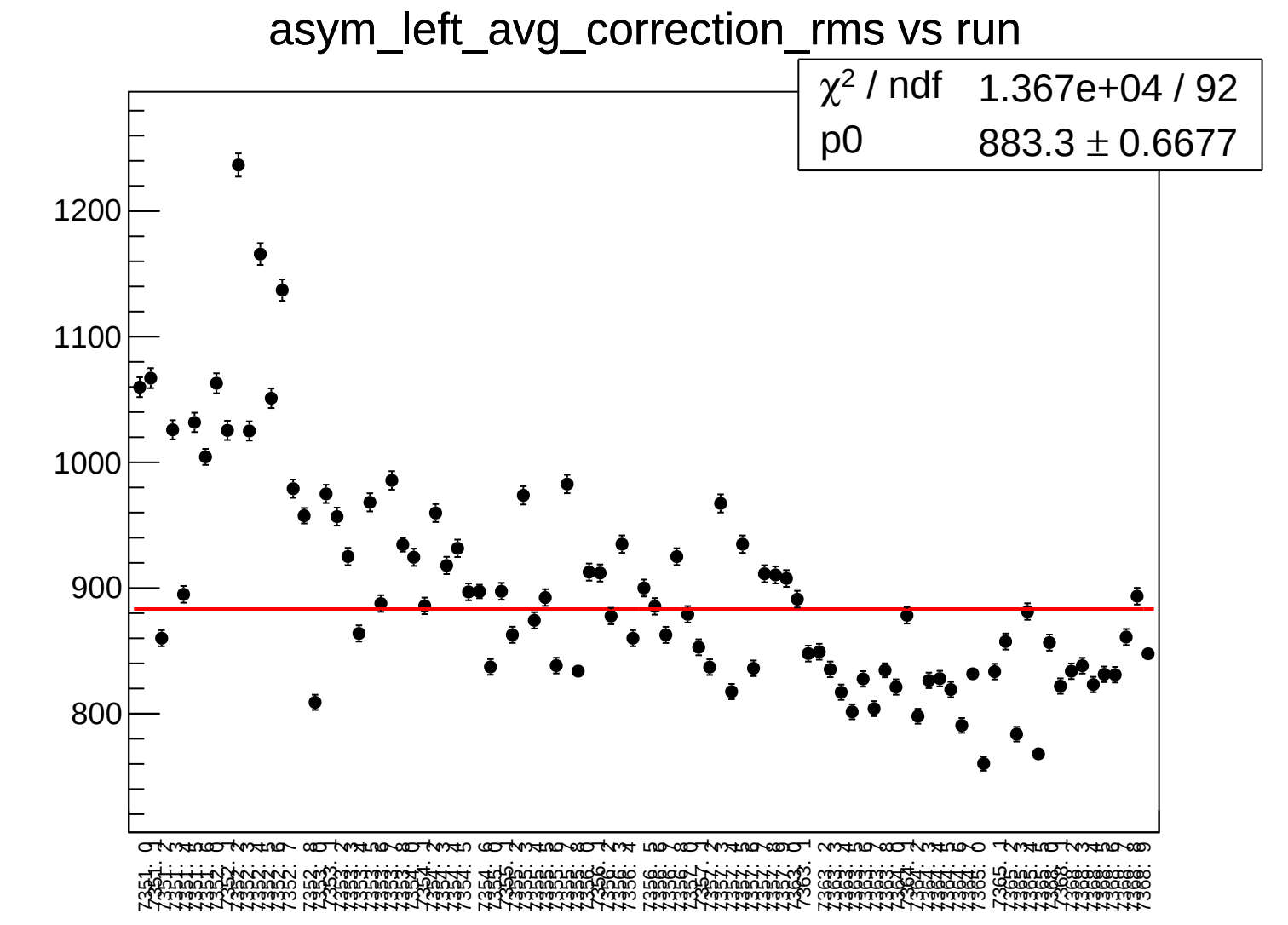

asym_dsr_rms vs run
χ^2 / ndf 266.4 / 92
p0 136.8 ± 0.103
142
140
138
136
134
132

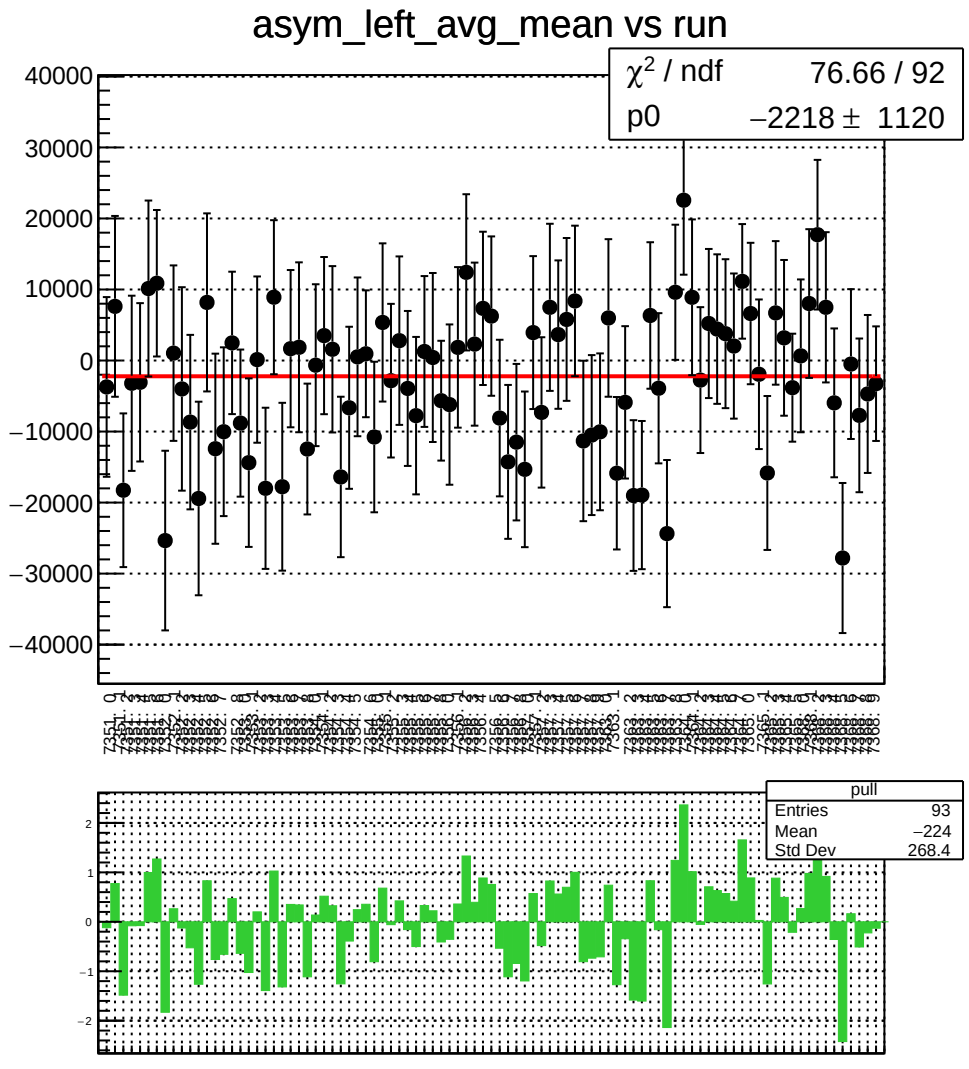

reg_asym_left_avg_mean vs run
χ² / ndf 62.88 / 92
p0 −1145 ± 595.5
pull
Entries 93
Mean 461.9
Std Dev 413.1

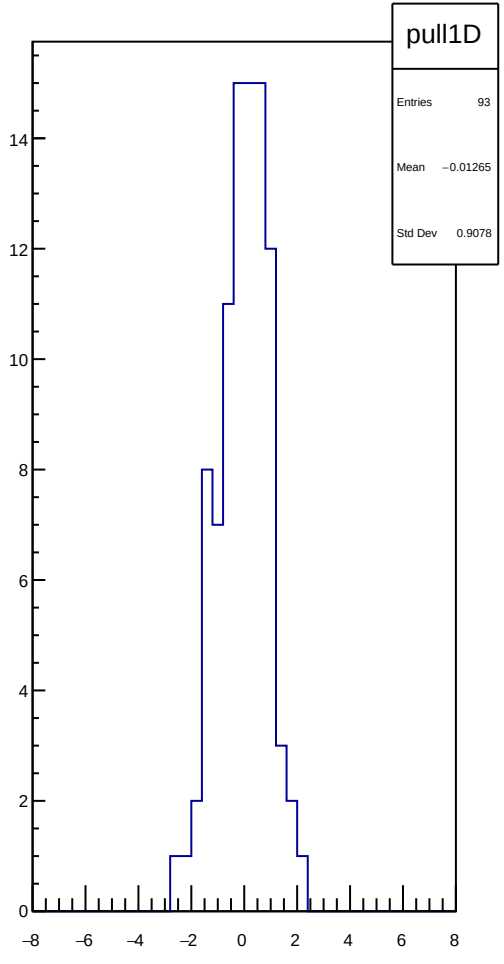

pull1D
Entries 93
Mean 0.004398
Std Dev 0.8223

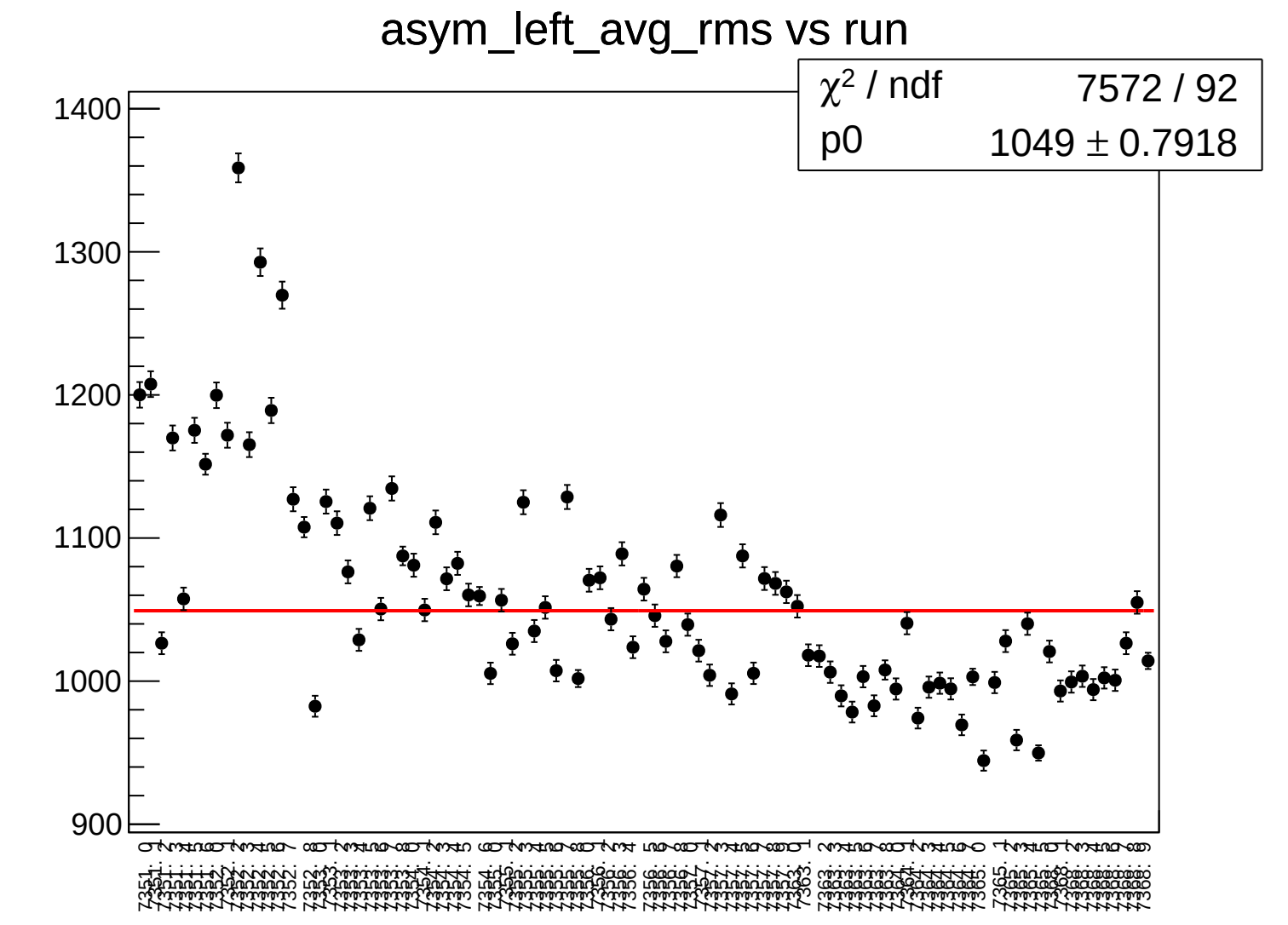

reg_asym_left_avg_rms vs run
χ² / ndf 95.32 / 92
p0 559.2 ± 0.4211
570
565
560
555
550
545

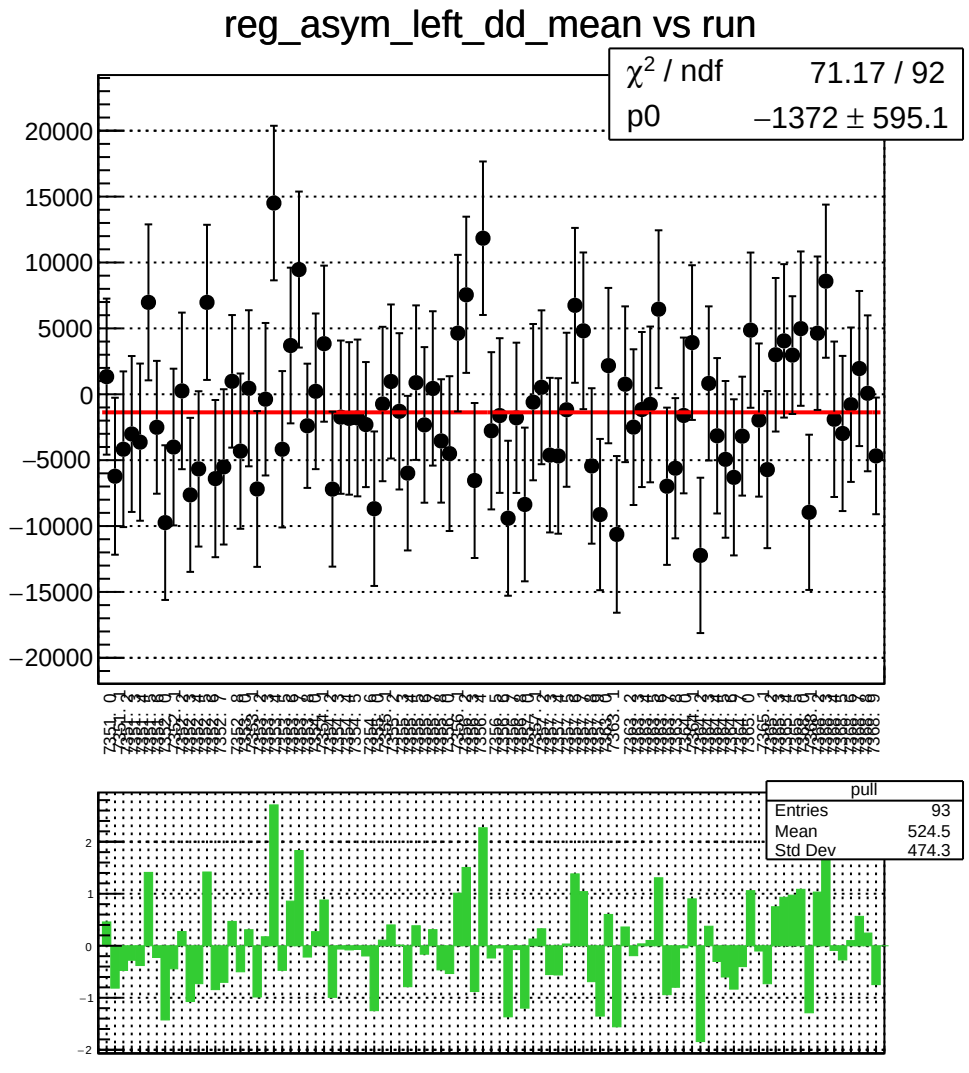

asym_left_avg_correction_mean vs run
χ² / ndf 92.26 / 92
p0 1089 ± 944.3
40000
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −130.3
Std Dev 172.6
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01695
Std Dev 0.9959
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

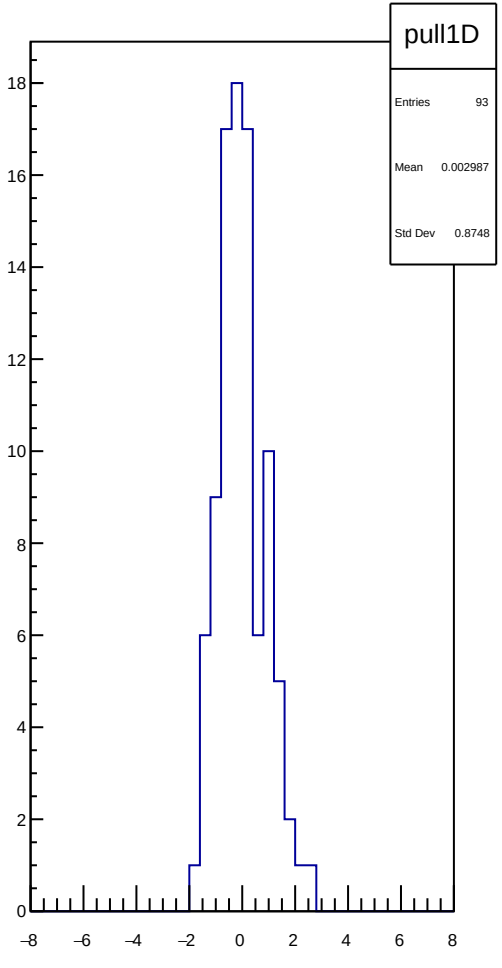

asym_left_avg_correction_rms vs run
χ² / ndf 1.367e+04 / 92
p0 883.3 ± 0.6677
1200
1100
1000
900
800

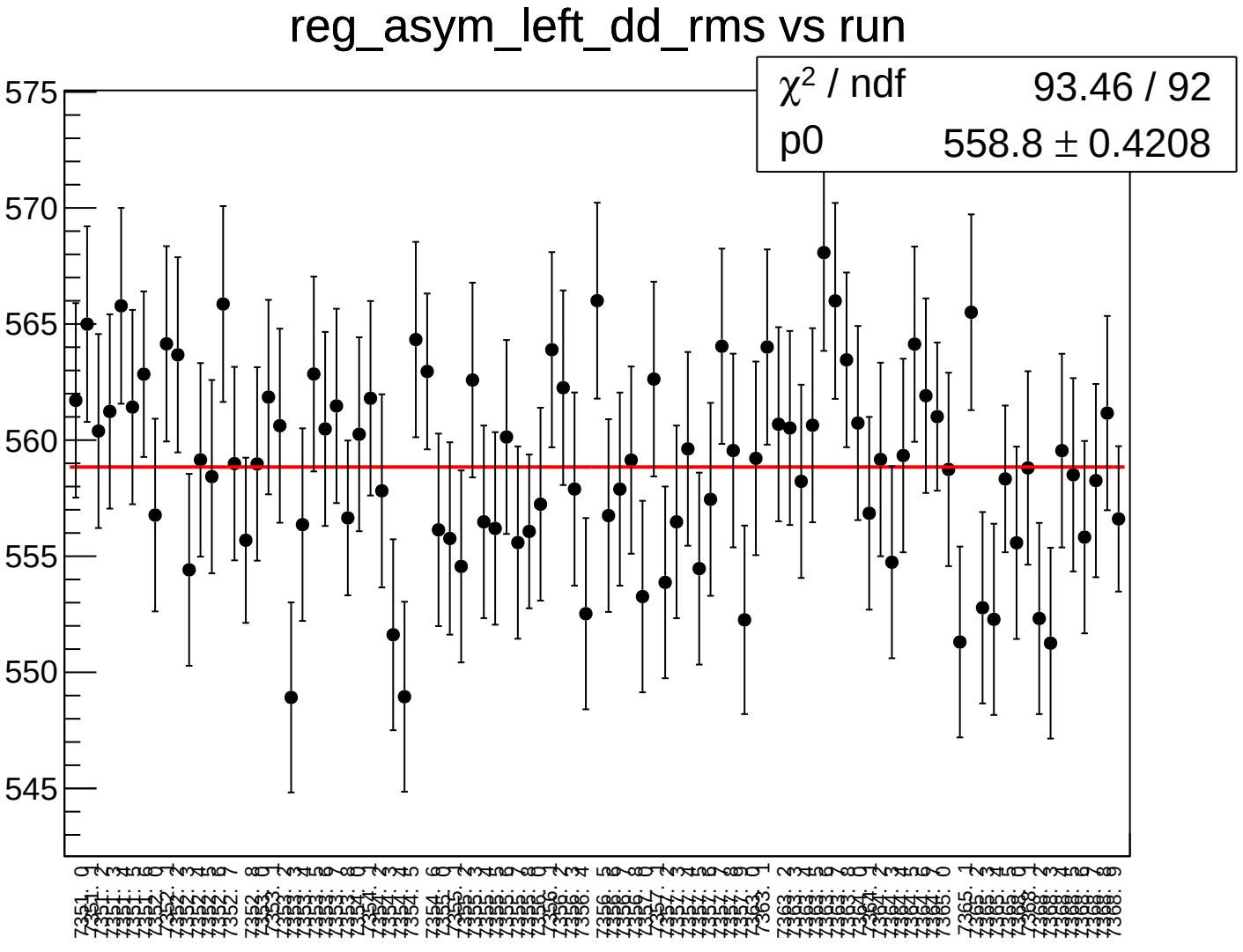

asym_left_avg_mean vs run
χ² / ndf 76.66 / 92
p0 −2218 ± 1120
pull
Entries 93
Mean −224
Std Dev 268.4

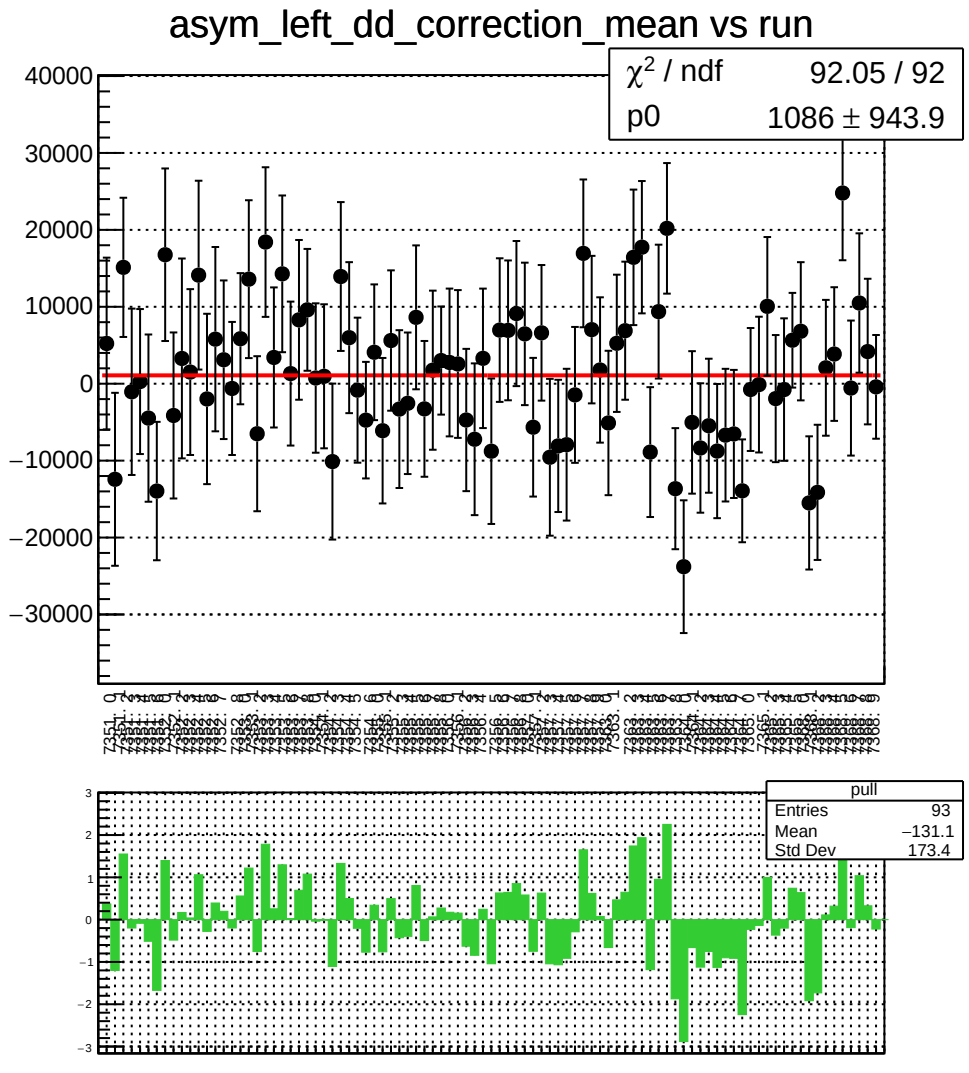

pull1D
Entries 93
Mean −0.01265
Std Dev 0.9078

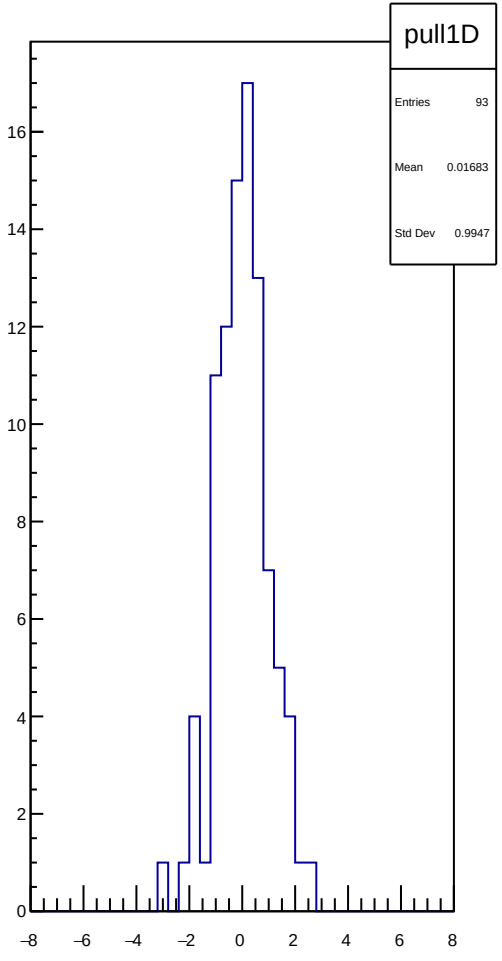

asym_left_avg_rms vs run
χ² / ndf 7572 / 92
p0 1049 ± 0.7918
1400
1300
1200
1100
1000
900

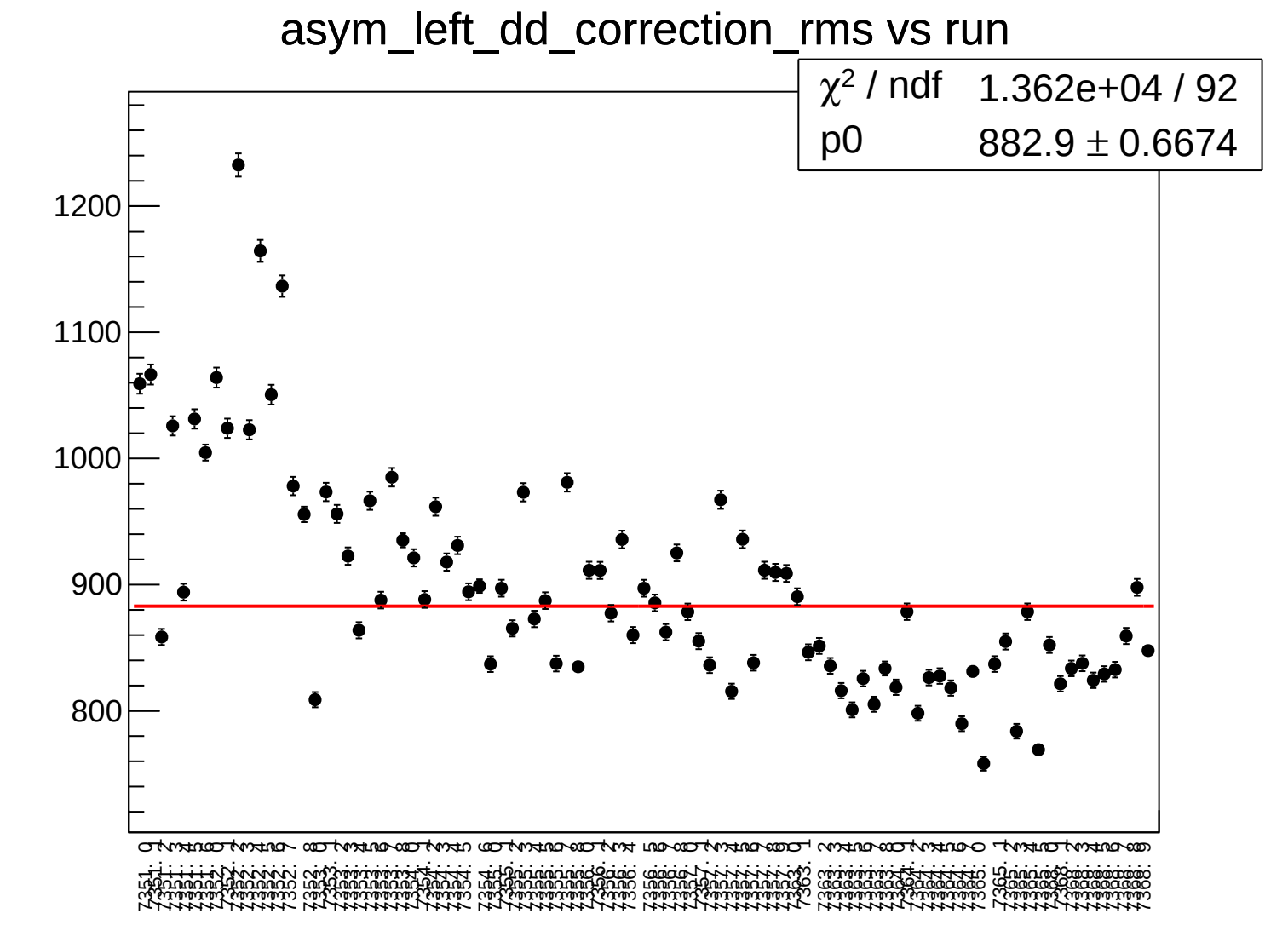

reg_asym_left_dd_mean vs run
χ² / ndf 71.17 / 92
p0 −1372 ± 595.1
pull
Entries 93
Mean 524.5
Std Dev 474.3

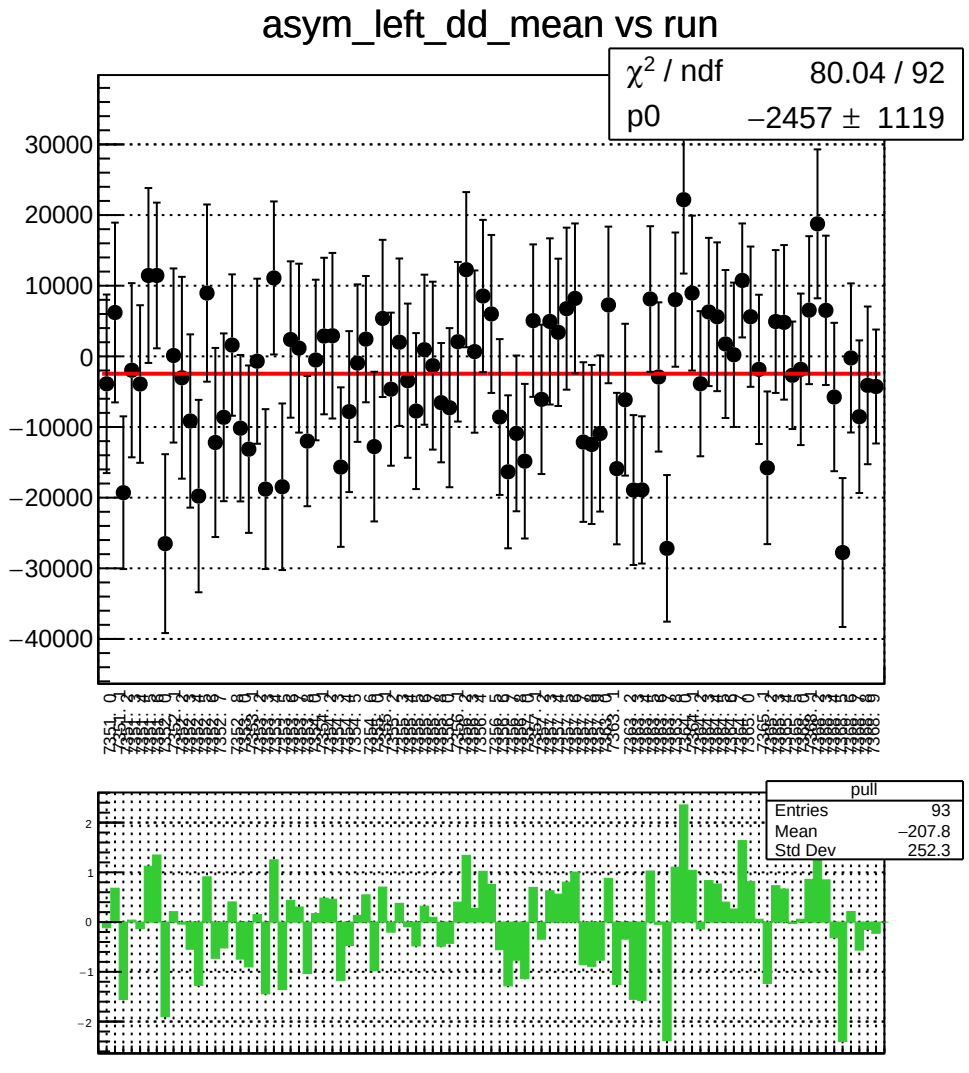

pull1D
Entries 93
Mean 0.002987
Std Dev 0.8748

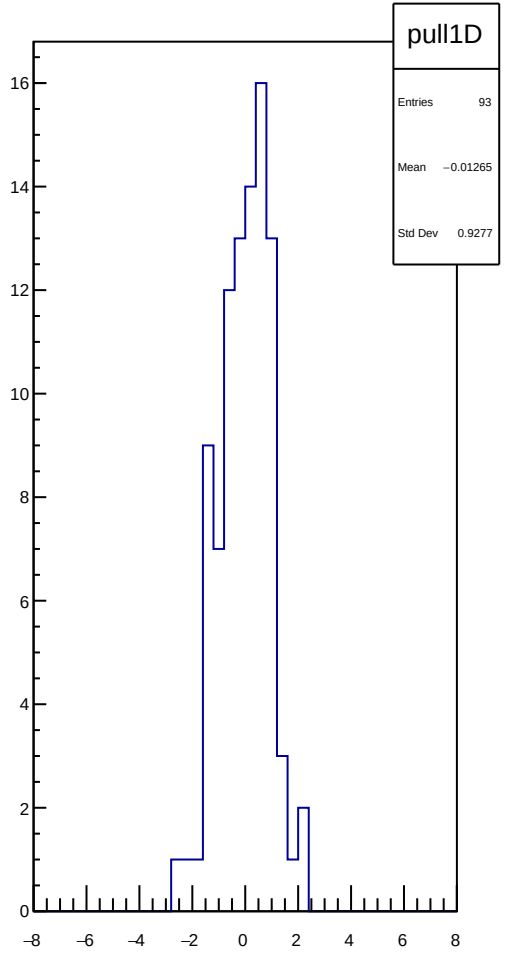

reg_asym_left_dd_rms vs run
χ^2 / ndf 93.46 / 92
p0 558.8 ± 0.4208
575
570
565
560
555
550
545

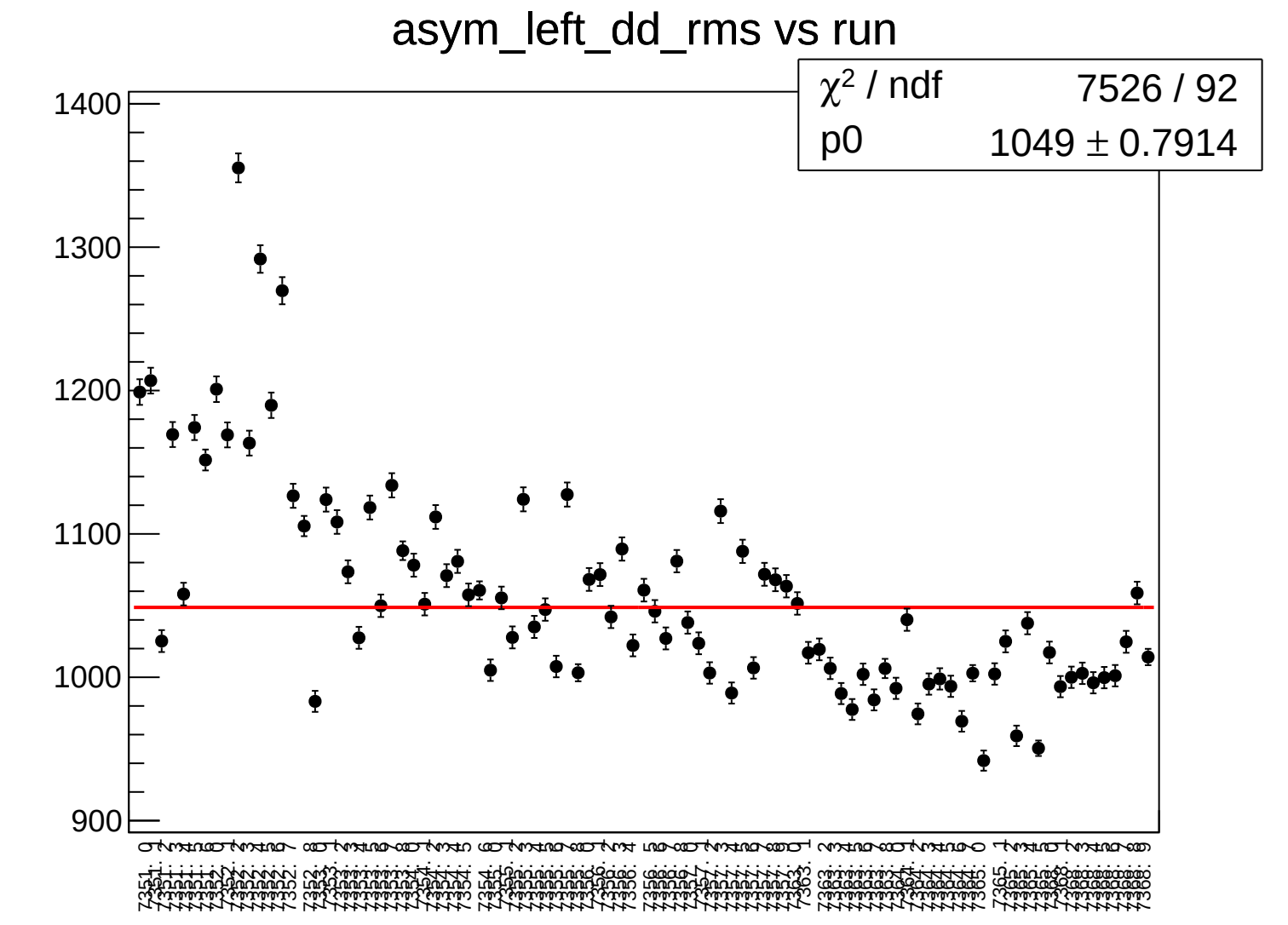

asym_left_dd_correction_mean vs run
χ² / ndf 92.05 / 92
p0 1086 ± 943.9
pull
Entries 93
Mean −131.1
Std Dev 173.4

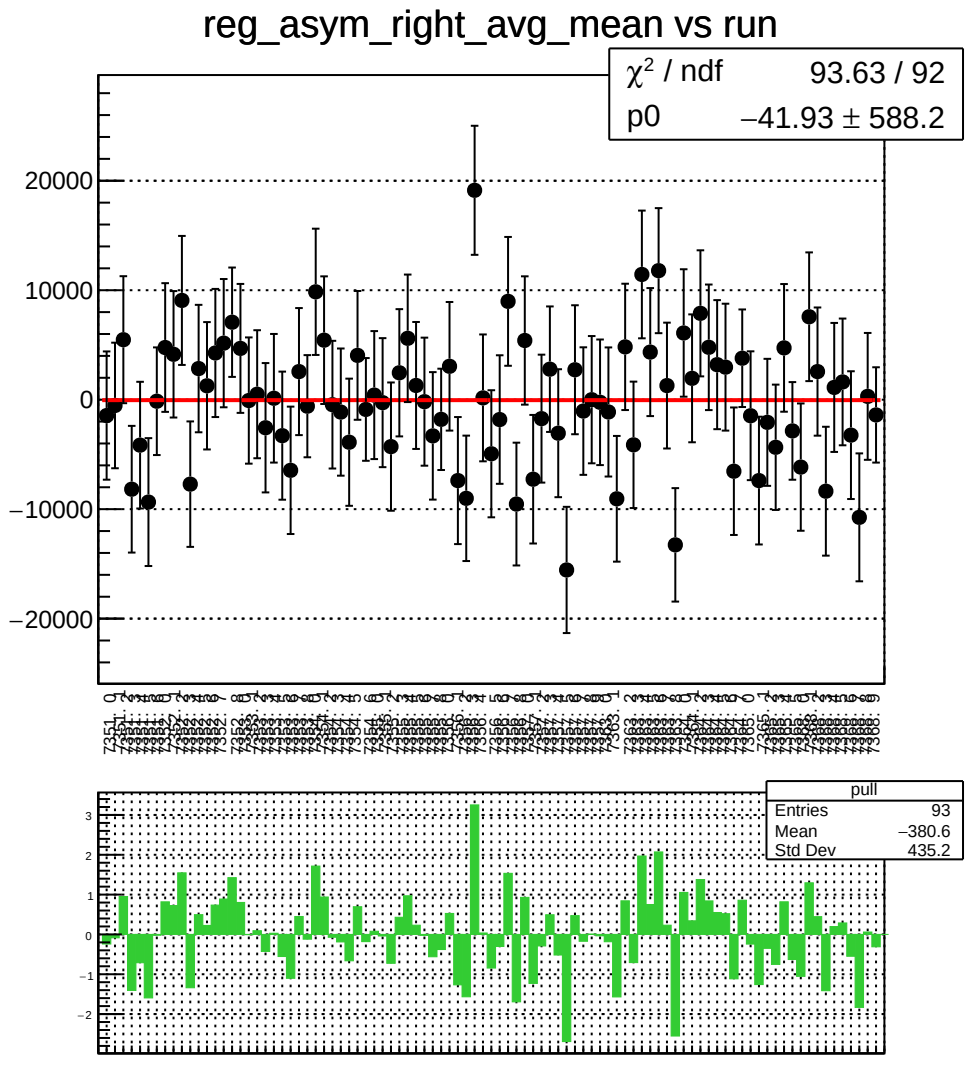

pull1D
Entries 93
Mean 0.01683
Std Dev 0.9947

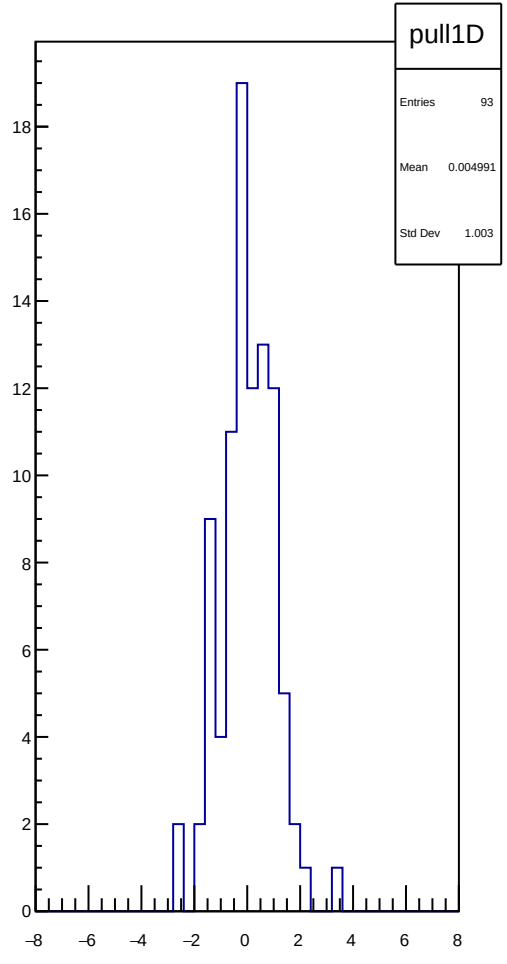

asym_left_dd_correction_rms vs run
χ² / ndf 1.362e+04 / 92
p0 882.9 ± 0.6674
1200
1100
1000
900
800

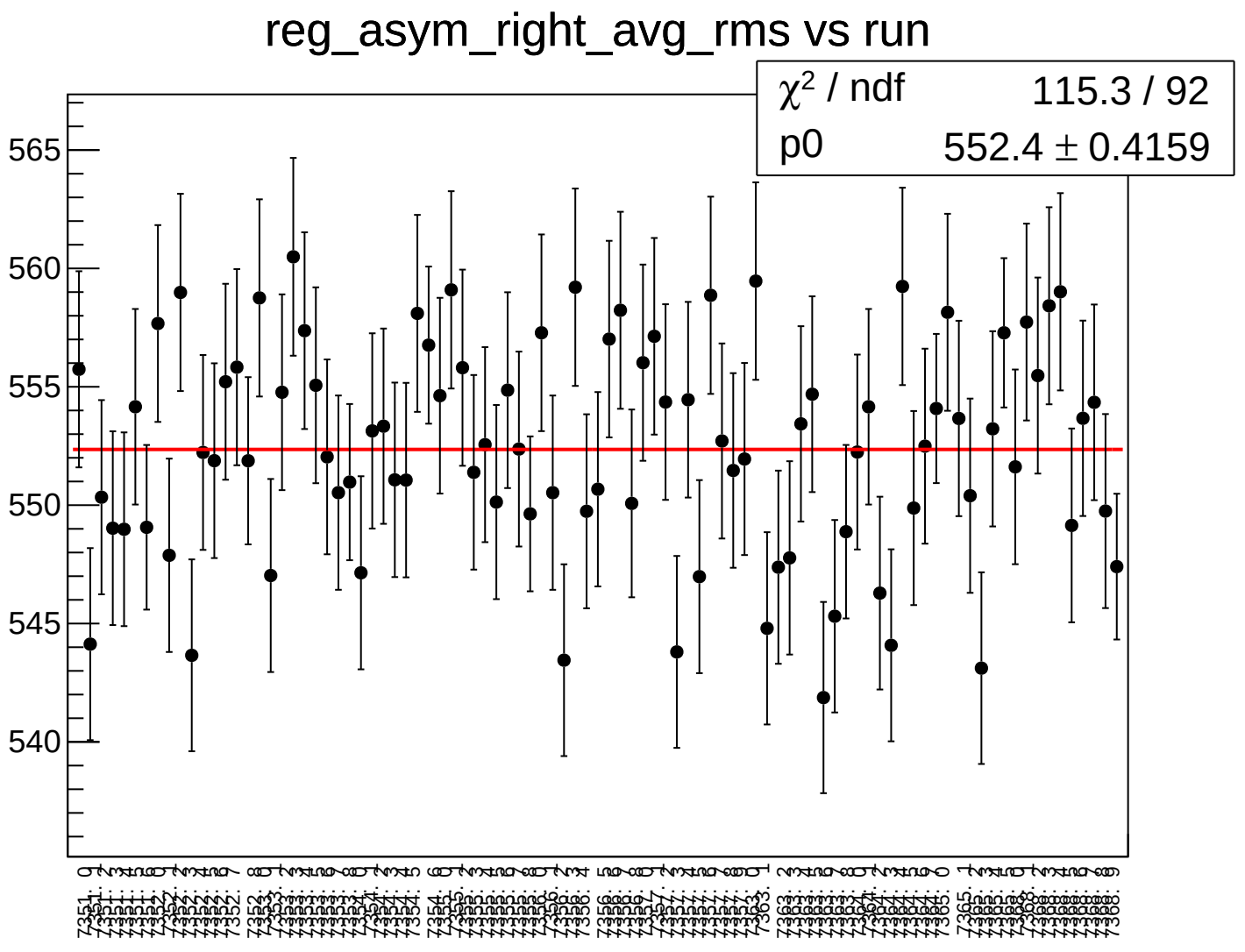

asym_left_dd_mean vs run
χ² / ndf 80.04 / 92
p0 −2457 ± 1119
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −207.8
Std Dev 252.3
2
1
0
−1
−2

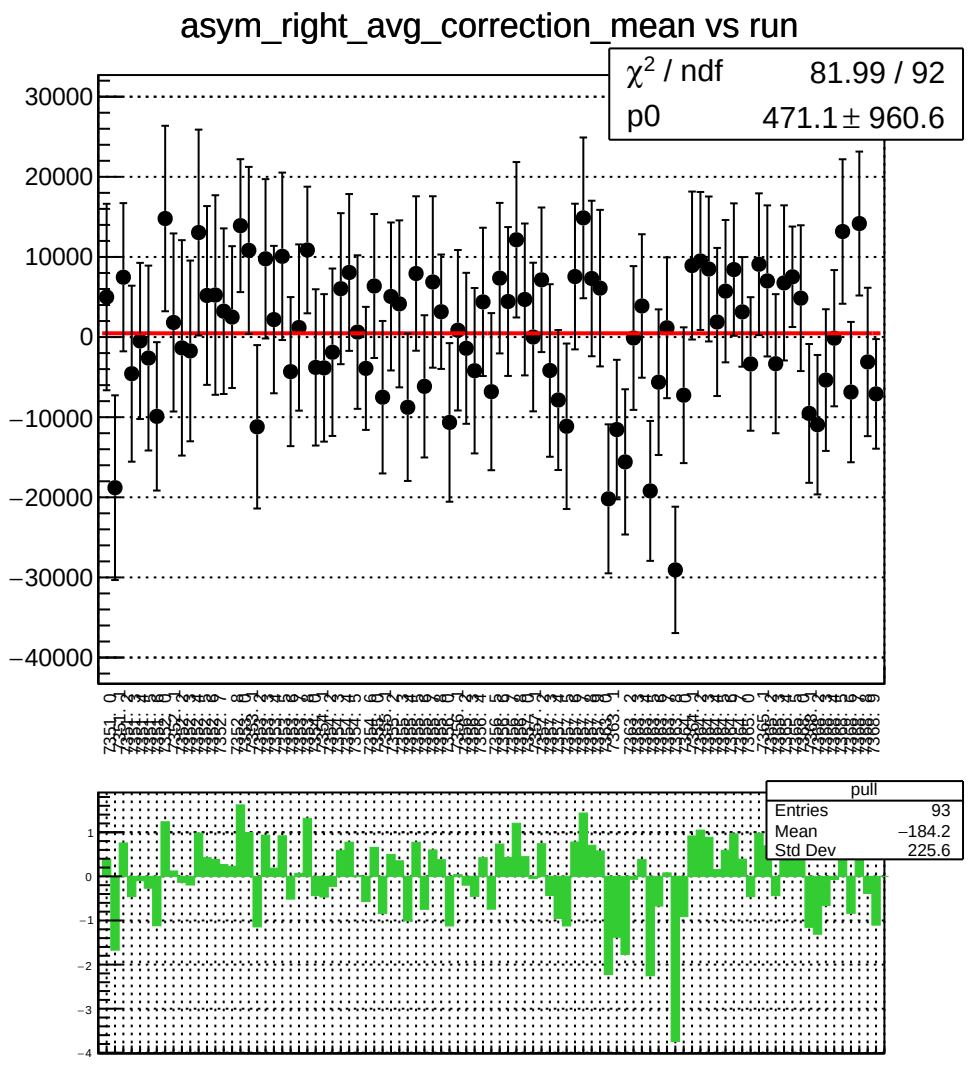

pull1D
Entries 93
Mean −0.01265
Std Dev 0.9277
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

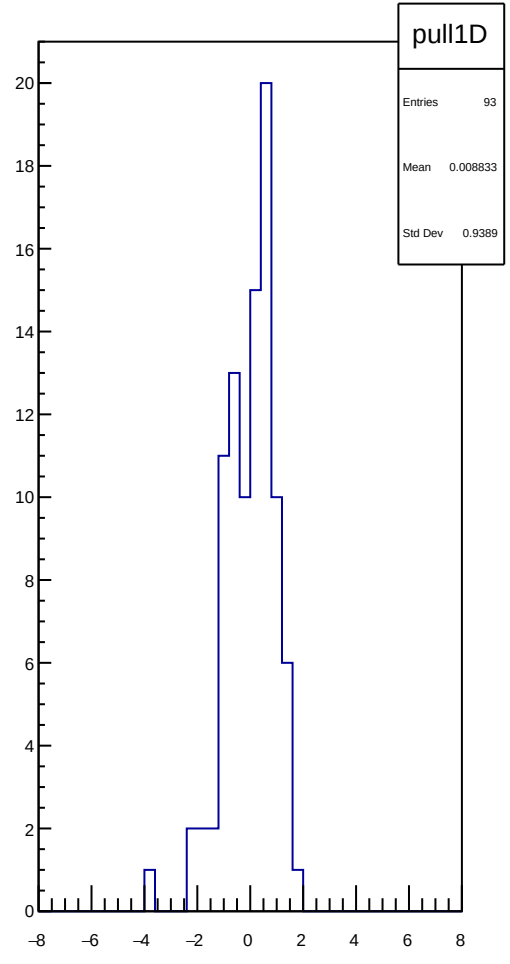

asym_left_dd_rms vs run
χ² / ndf 7526 / 92
p0 1049 ± 0.7914
1400
1300
1200
1100
1000
900

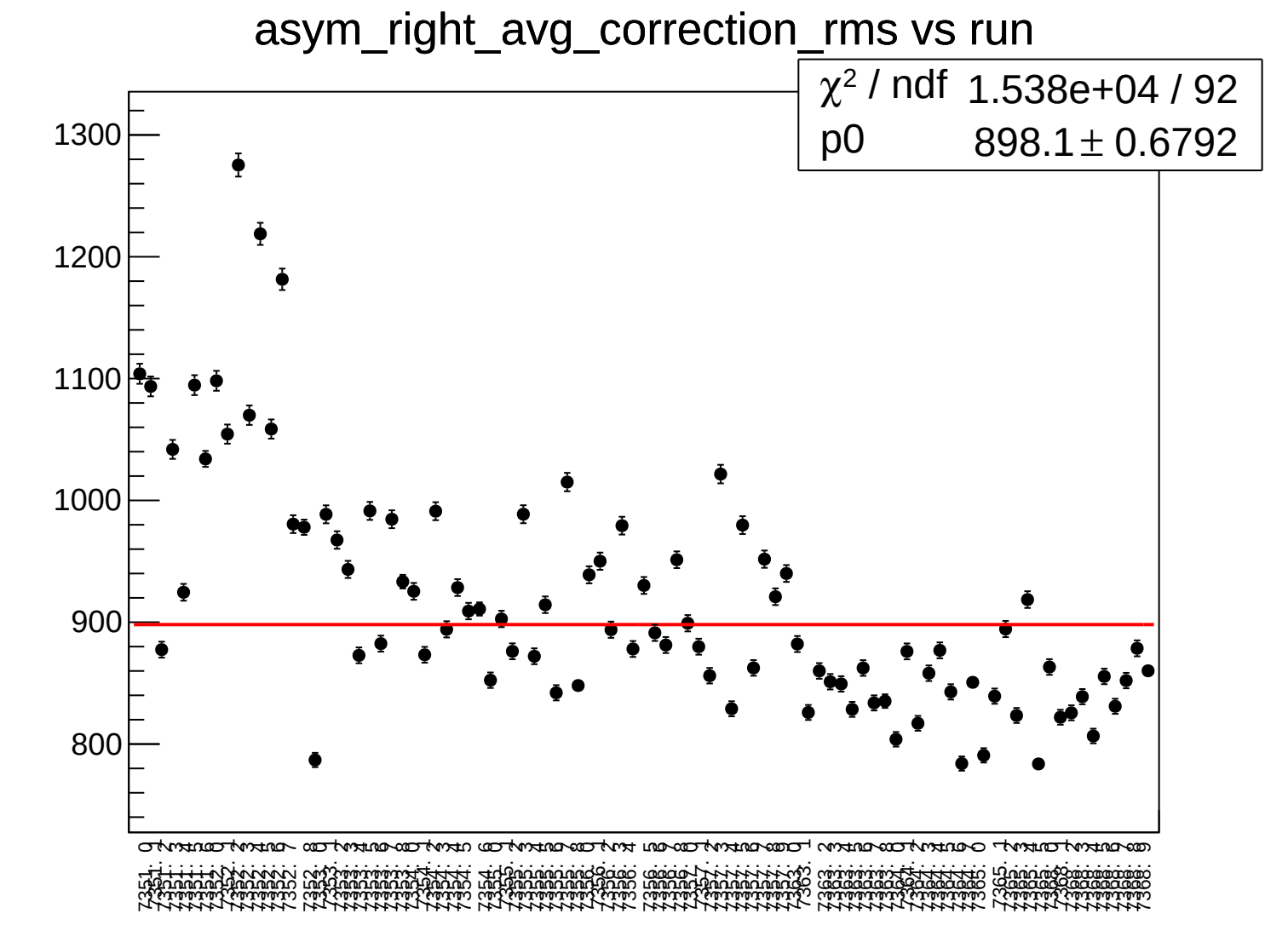

reg_asym_right_avg_mean vs run
χ² / ndf 93.63 / 92
p0 −41.93 ± 588.2
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −380.6
Std Dev 435.2
3
2
1
0
−1
−2

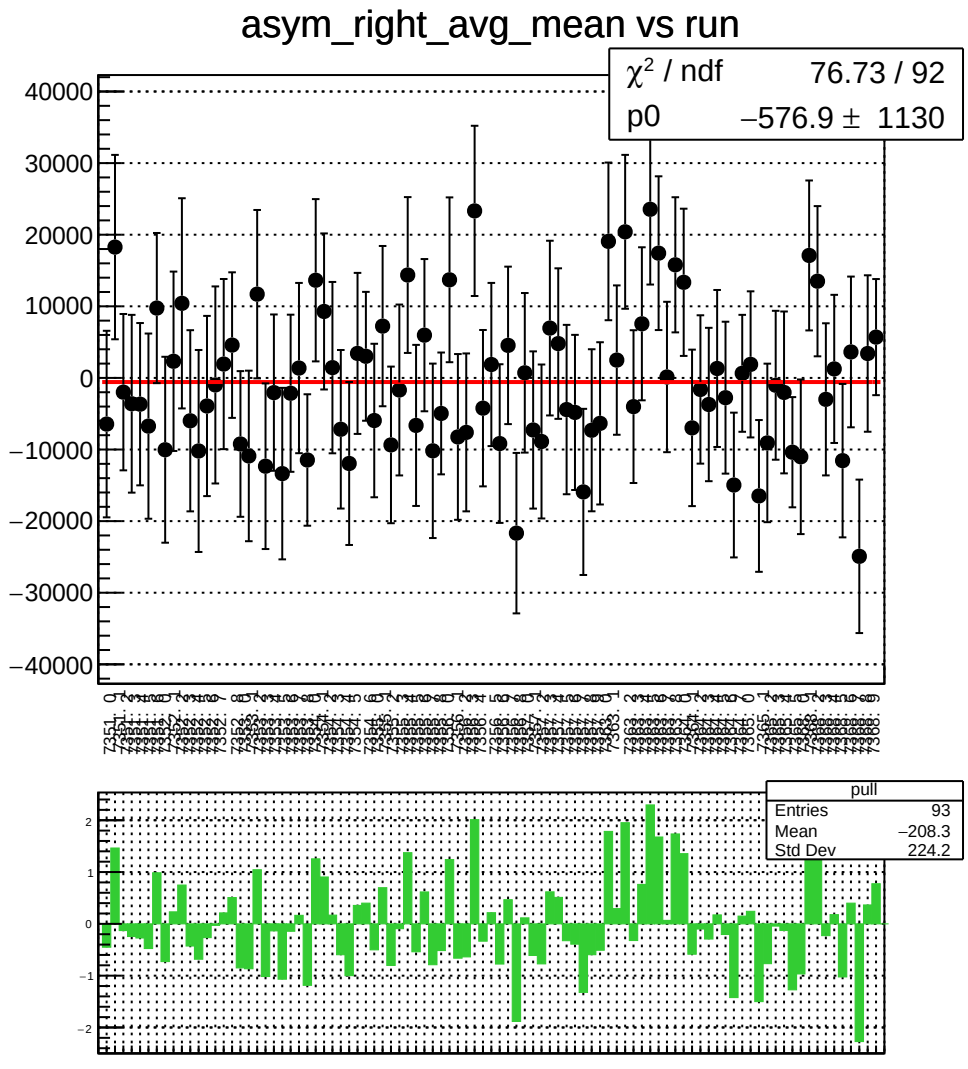

pull1D
Entries 93
Mean 0.004991
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

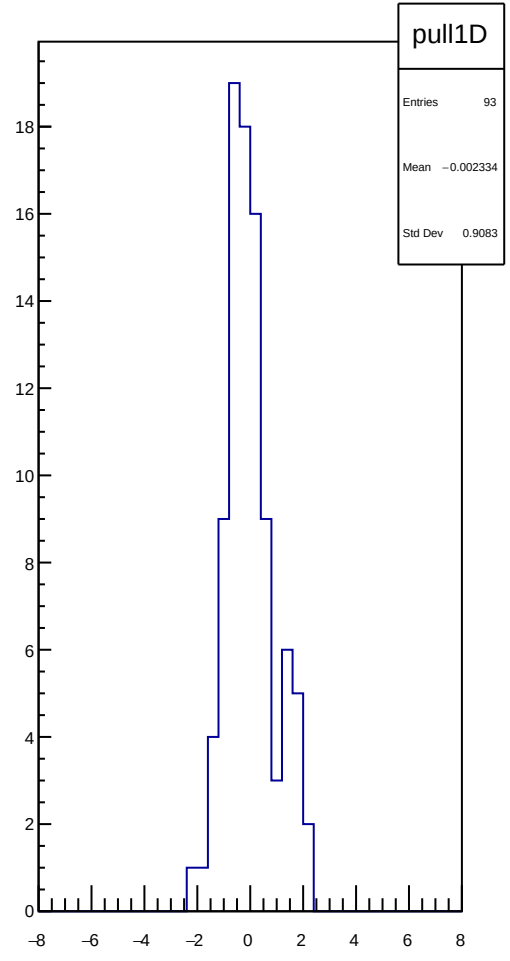

reg_asym_right_avg_rms vs run
χ² / ndf 115.3 / 92
p0 552.4 ± 0.4159
565
560
555
550
545
540

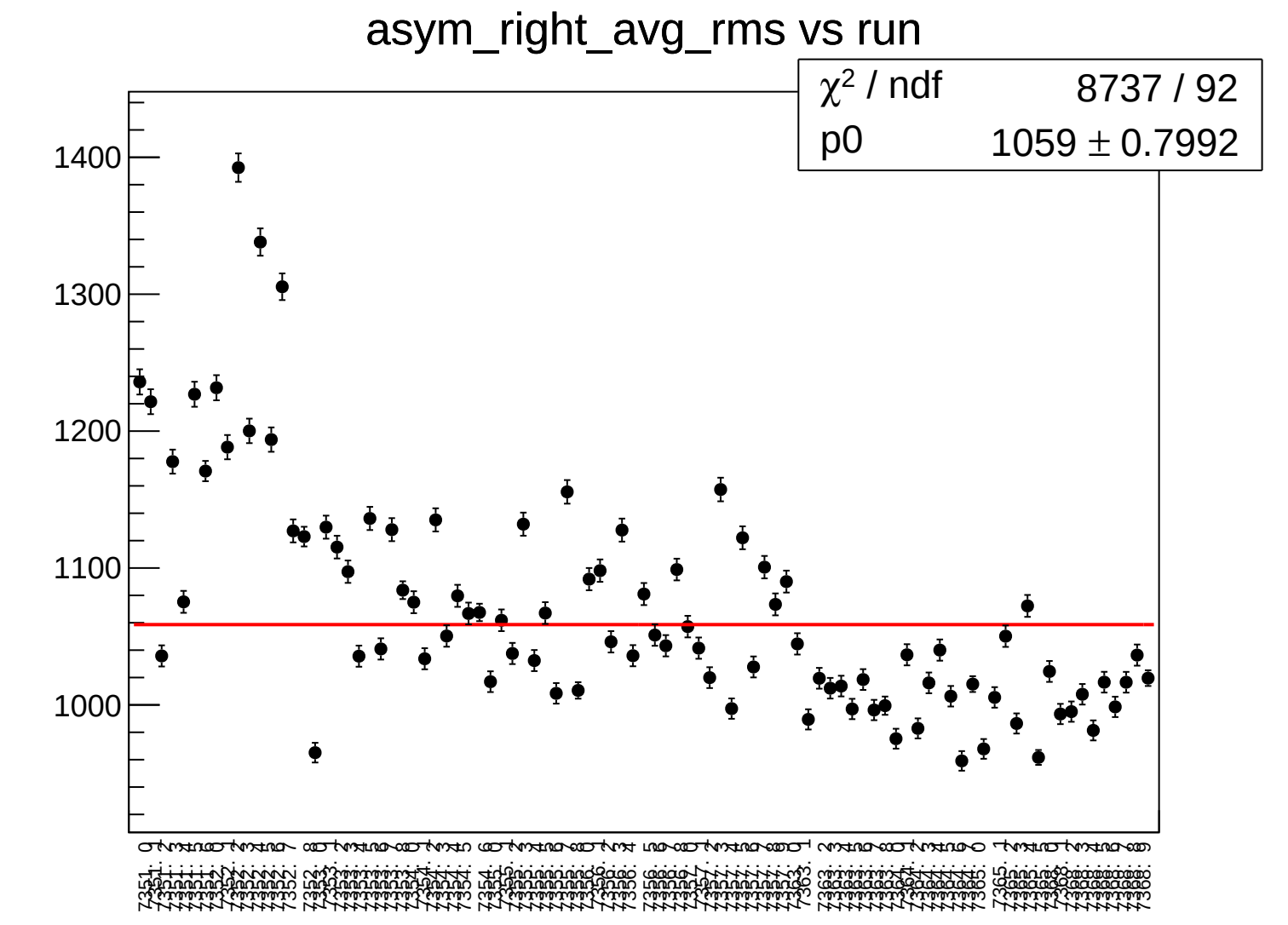

asym_right_avg_correction_mean vs run
χ² / ndf 81.99 / 92
p0 471.1 ± 960.6
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −184.2
Std Dev 225.6
1
0
−1
−2
−3
−4

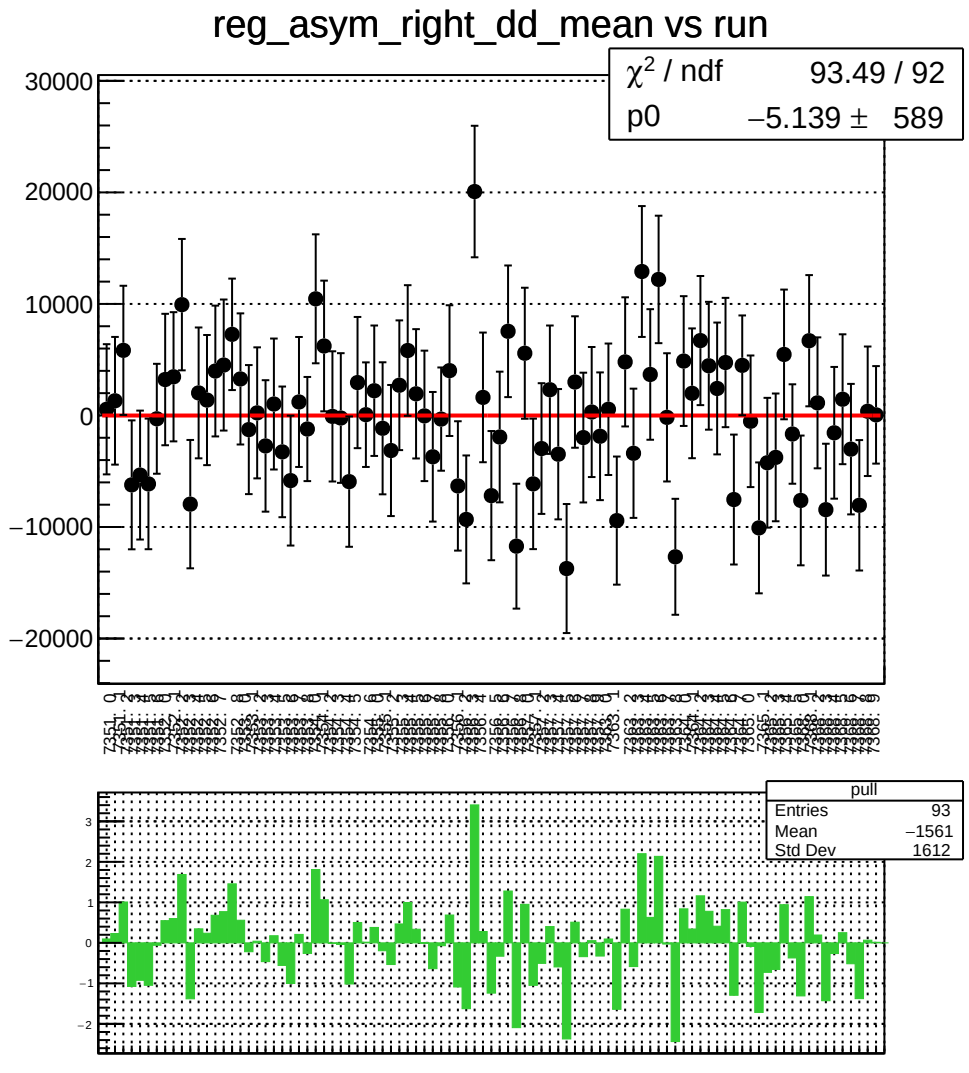

pull1D
Entries 93
Mean 0.008833
Std Dev 0.9389
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

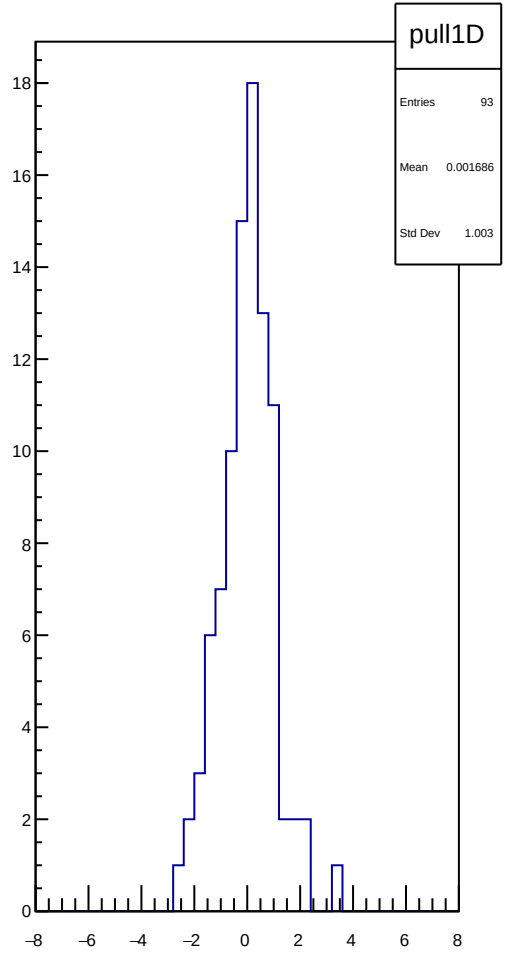

asym_right_avg_correction_rms vs run
χ² / ndf 1.538e+04 / 92
p0 898.1 ± 0.6792
1300
1200
1100
1000
900
800

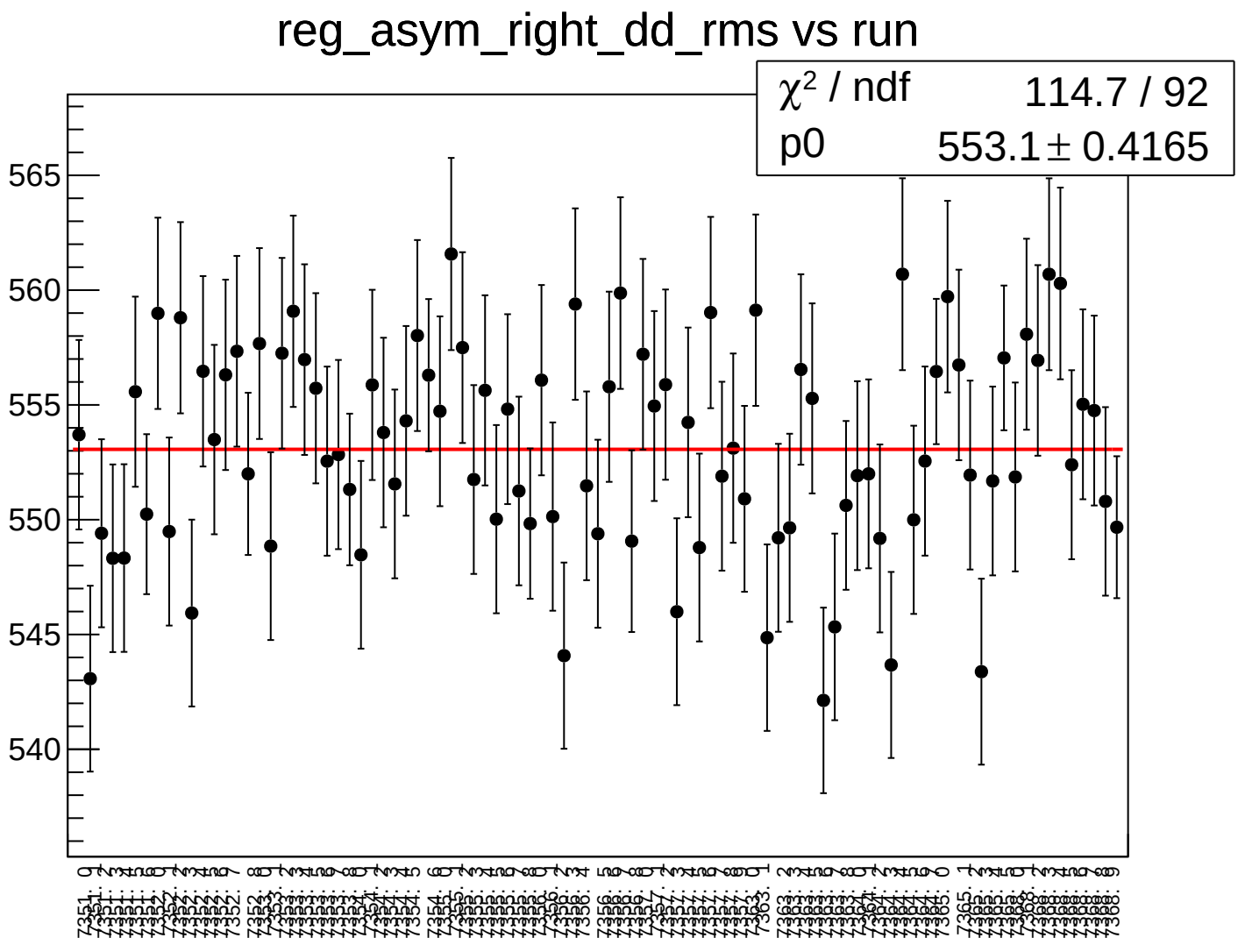

asym_right_avg_mean vs run
χ² / ndf 76.73 / 92
p0 −576.9 ± 1130
pull
Entries 93
Mean −208.3
Std Dev 224.2

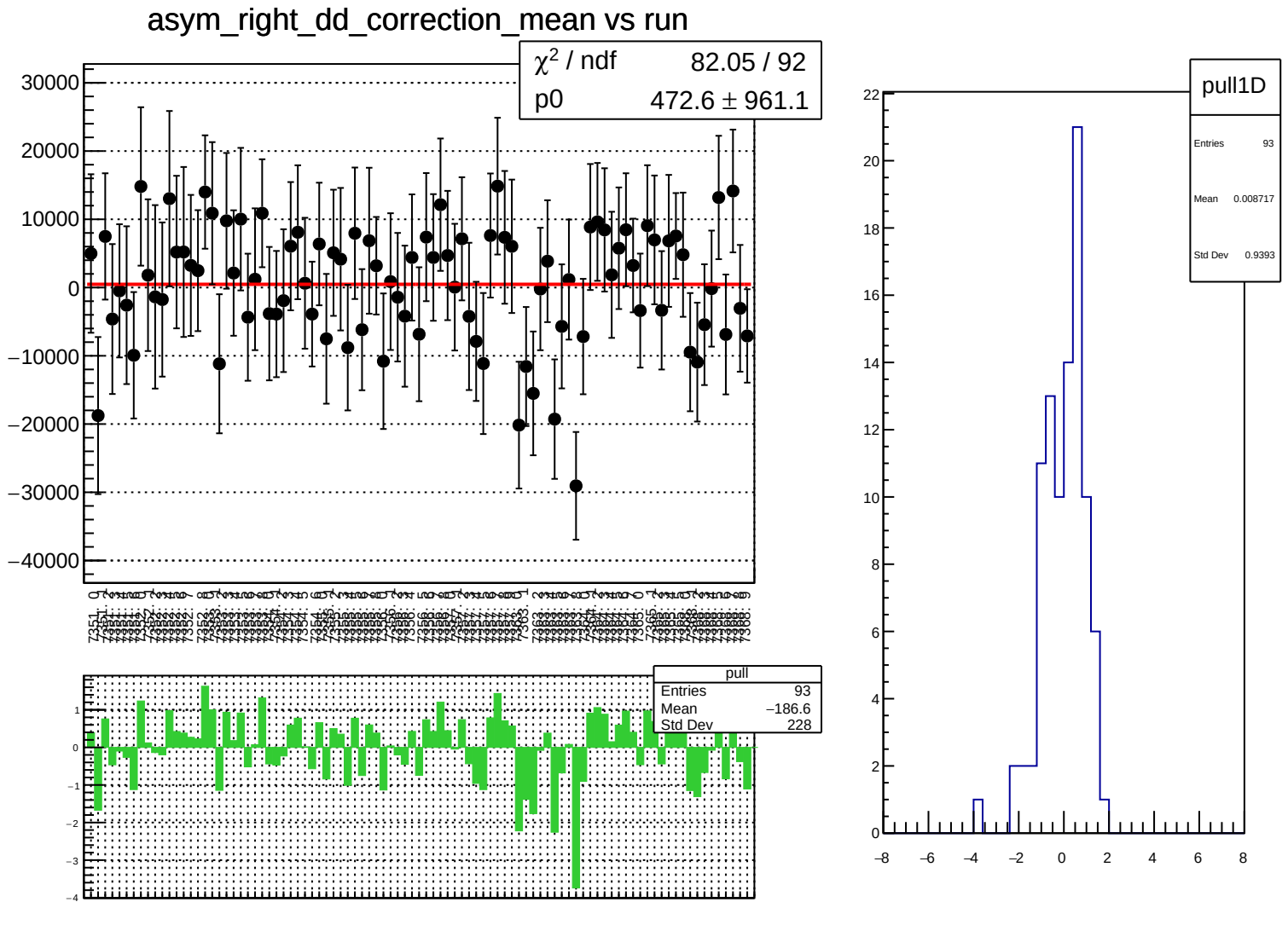

pull1D
Entries 93
Mean −0.002334
Std Dev 0.9083

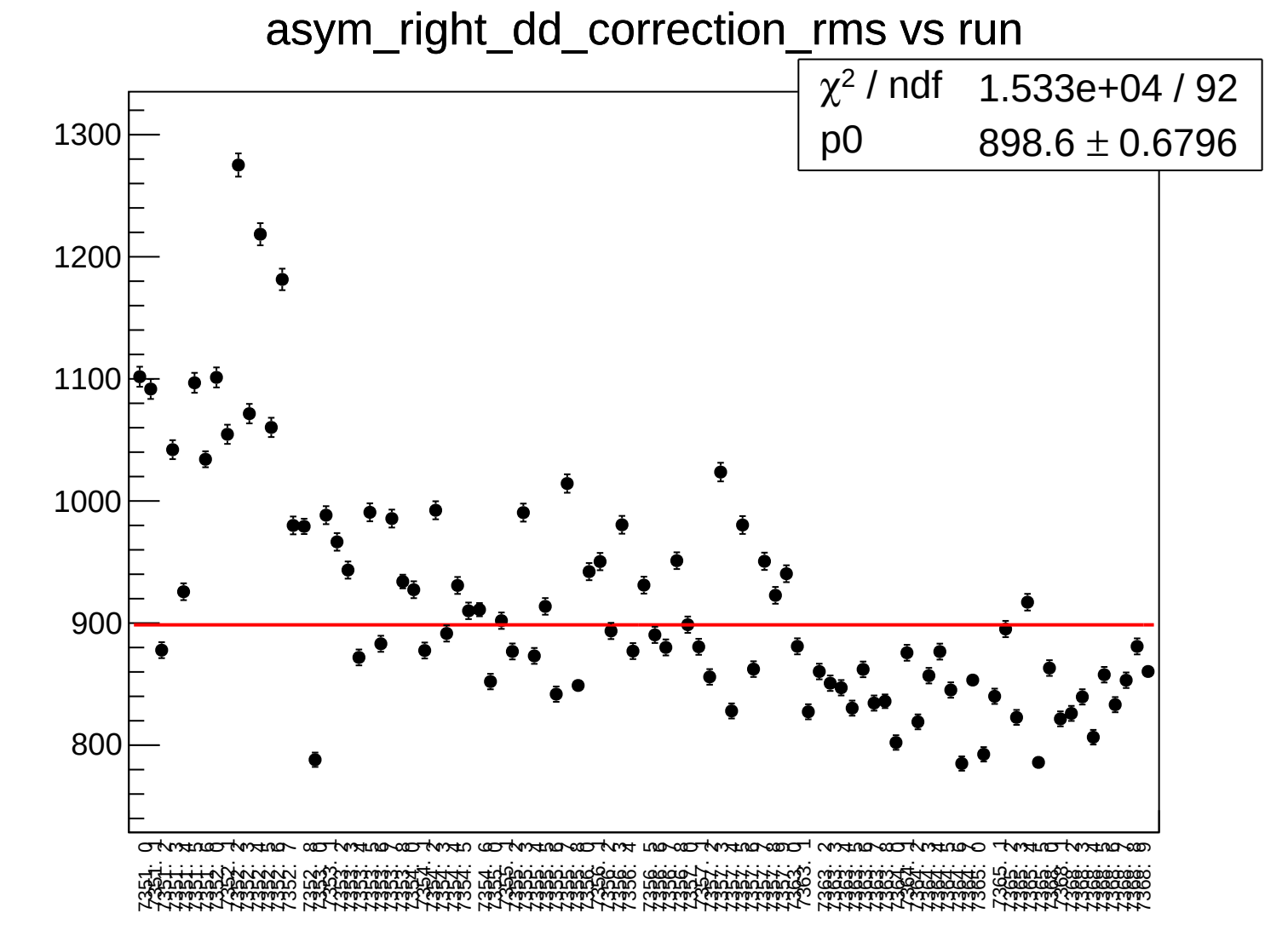

asym_right_avg_rms vs run
χ² / ndf 8737 / 92
p0 1059 ± 0.7992
1400
1300
1200
1100
1000

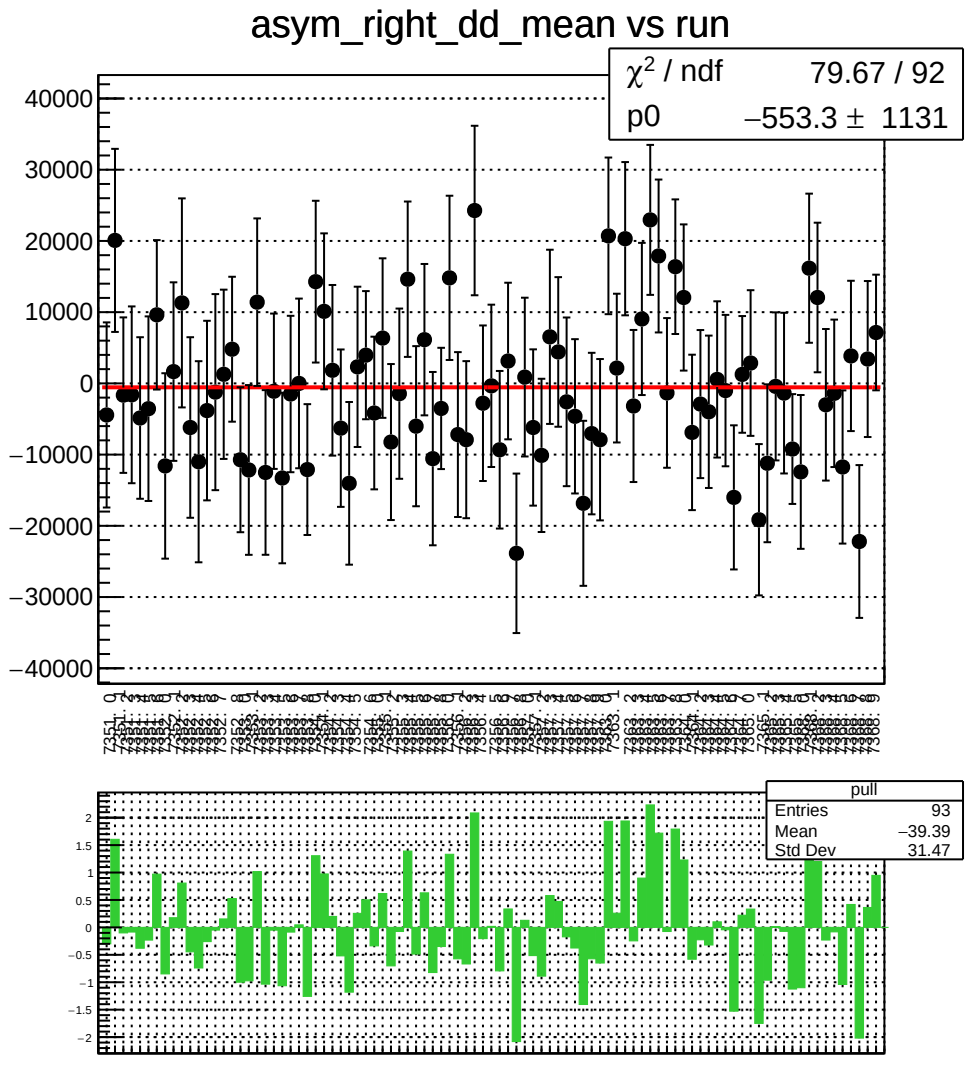

reg_asym_right_dd_mean vs run
χ² / ndf 93.49 / 92
p0 −5.139 ± 589
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −1561
Std Dev 1612
3
2
1
0
−1
−2

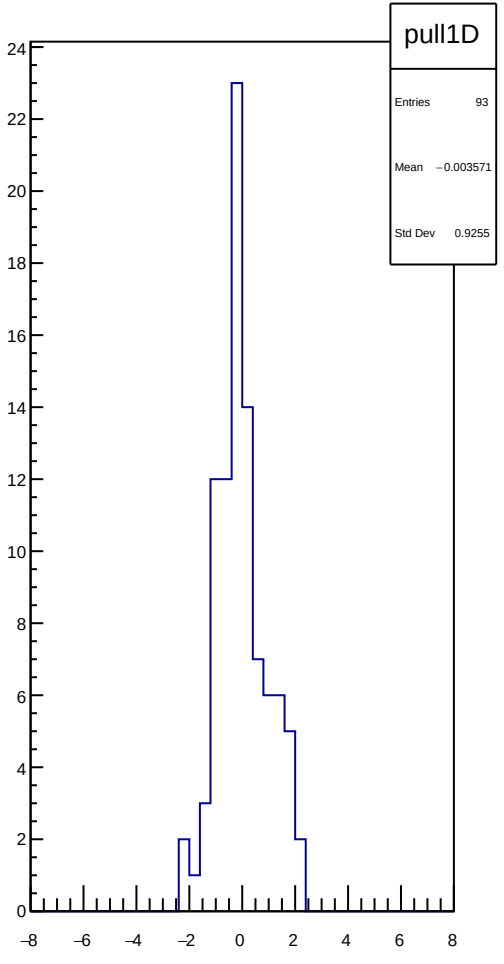

pull1D
Entries 93
Mean 0.001686
Std Dev 1.003
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

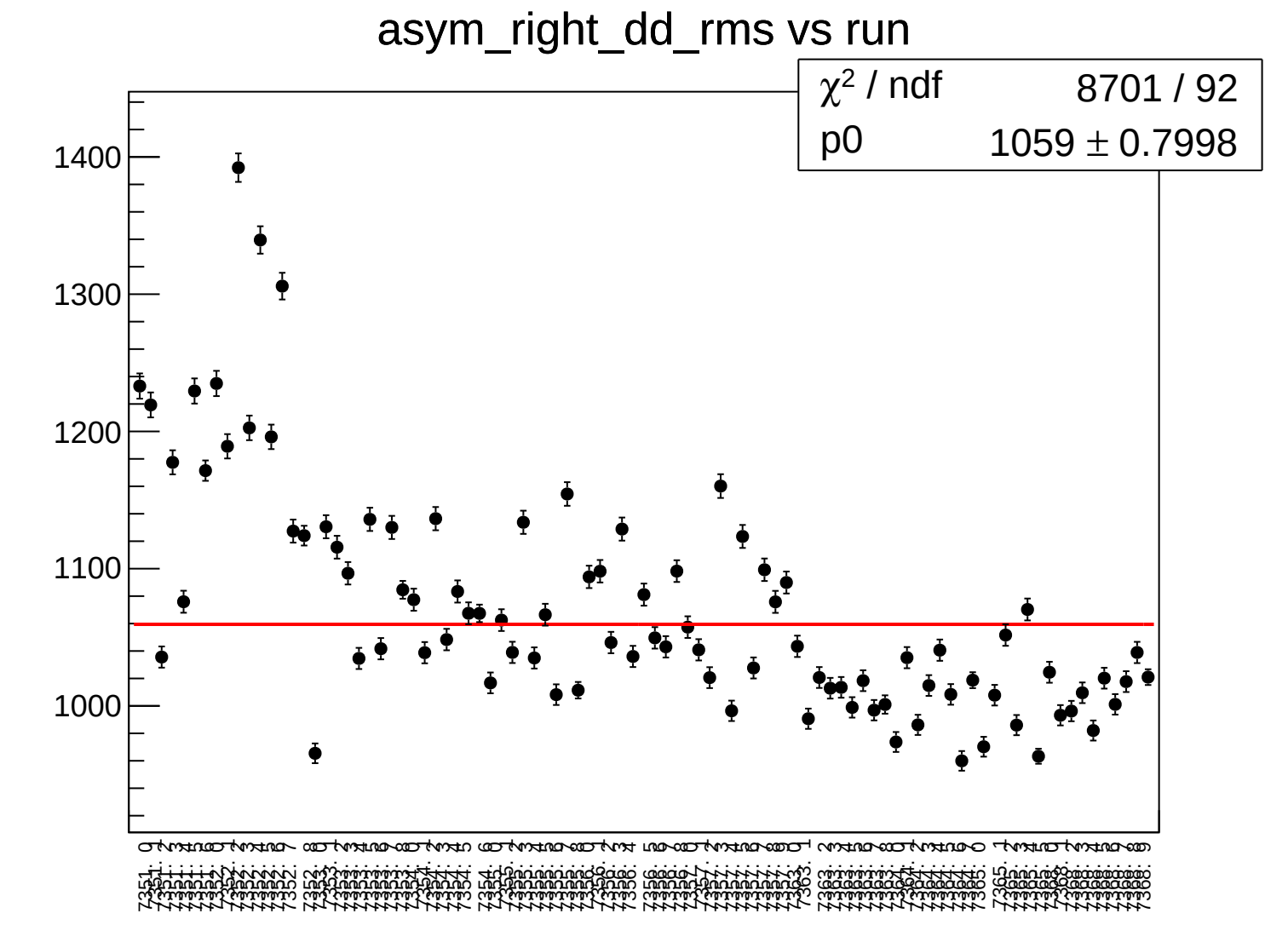

reg_asym_right_dd_rms vs run
χ² / ndf 114.7 / 92
p0 553.1 ± 0.4165
565
560
555
550
545
540

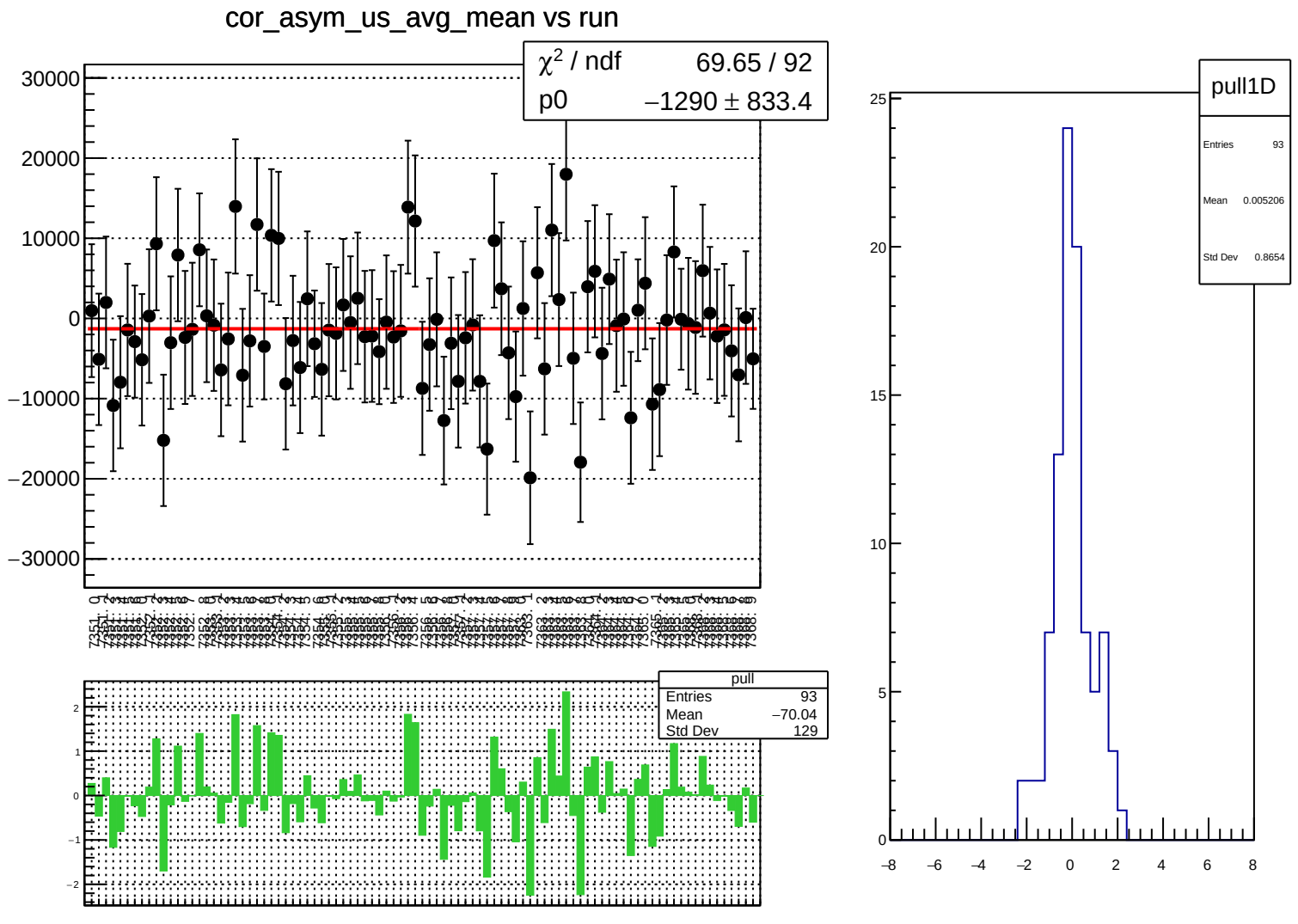

asym_right_dd_correction_mean vs run
χ² / ndf 82.05 / 92
p0 472.6 ± 961.1
pull
Entries 93
Mean −186.6
Std Dev 228
pull1D
Entries 93
Mean 0.008717
Std Dev 0.9393

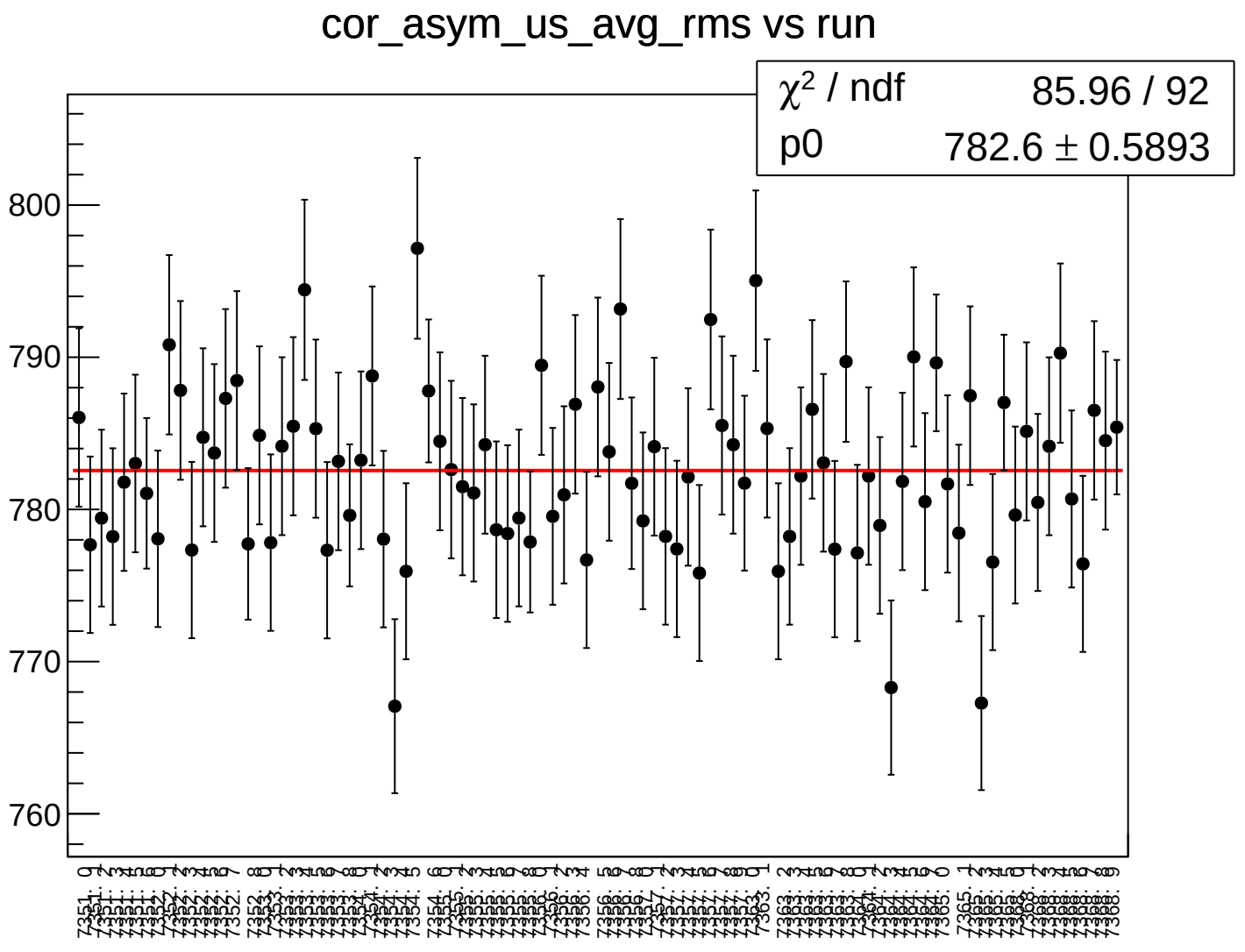

asym_right_dd_correction_rms vs run
χ² / ndf 1.533e+04 / 92
p0 898.6 ± 0.6796
1300
1200
1100
1000
900
800

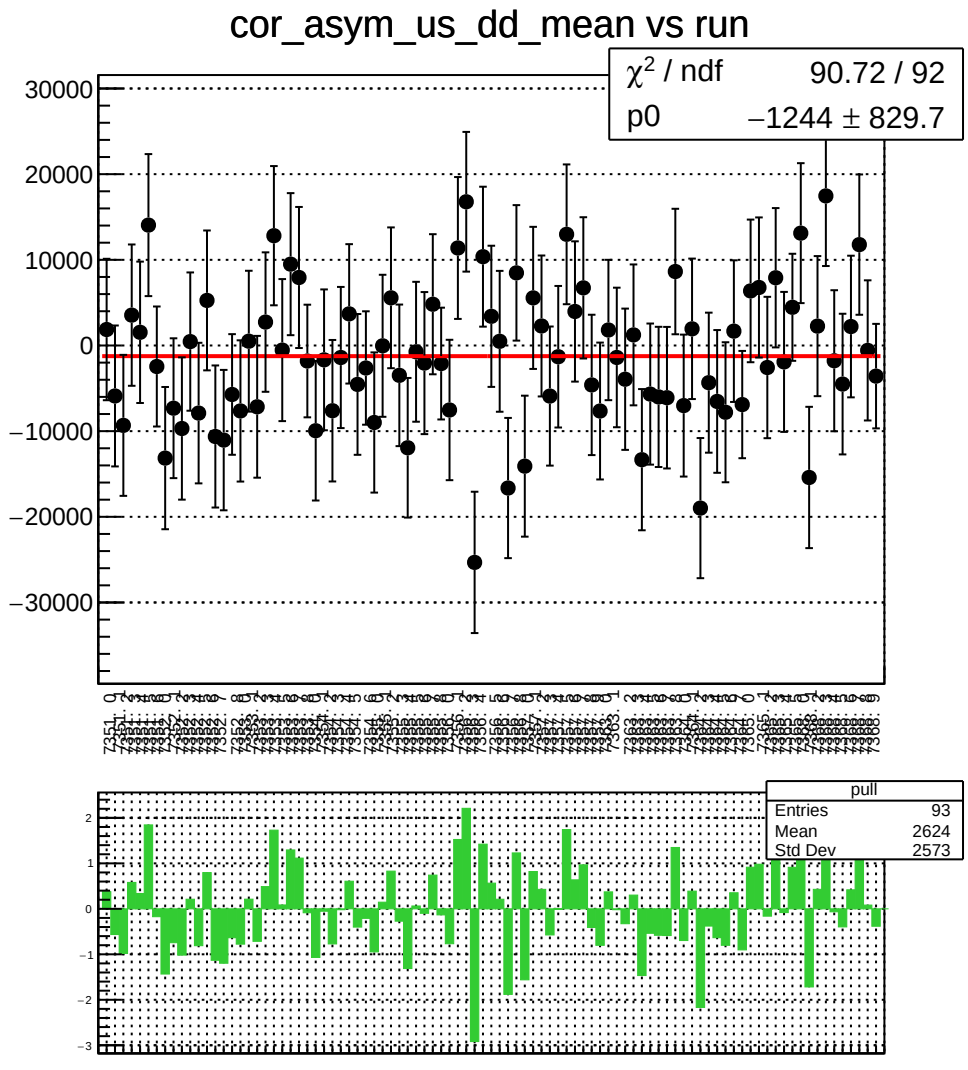

asym_right_dd_mean vs run
χ² / ndf 79.67 / 92
p0 −553.3 ± 1131
pull
Entries 93
Mean −39.39
Std Dev 31.47

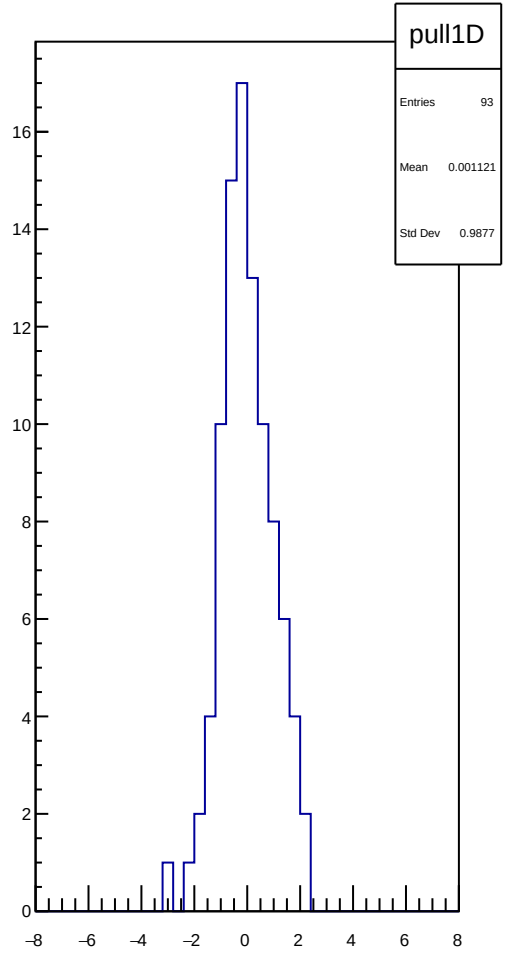

pull1D
Entries 93
Mean −0.003571
Std Dev 0.9255

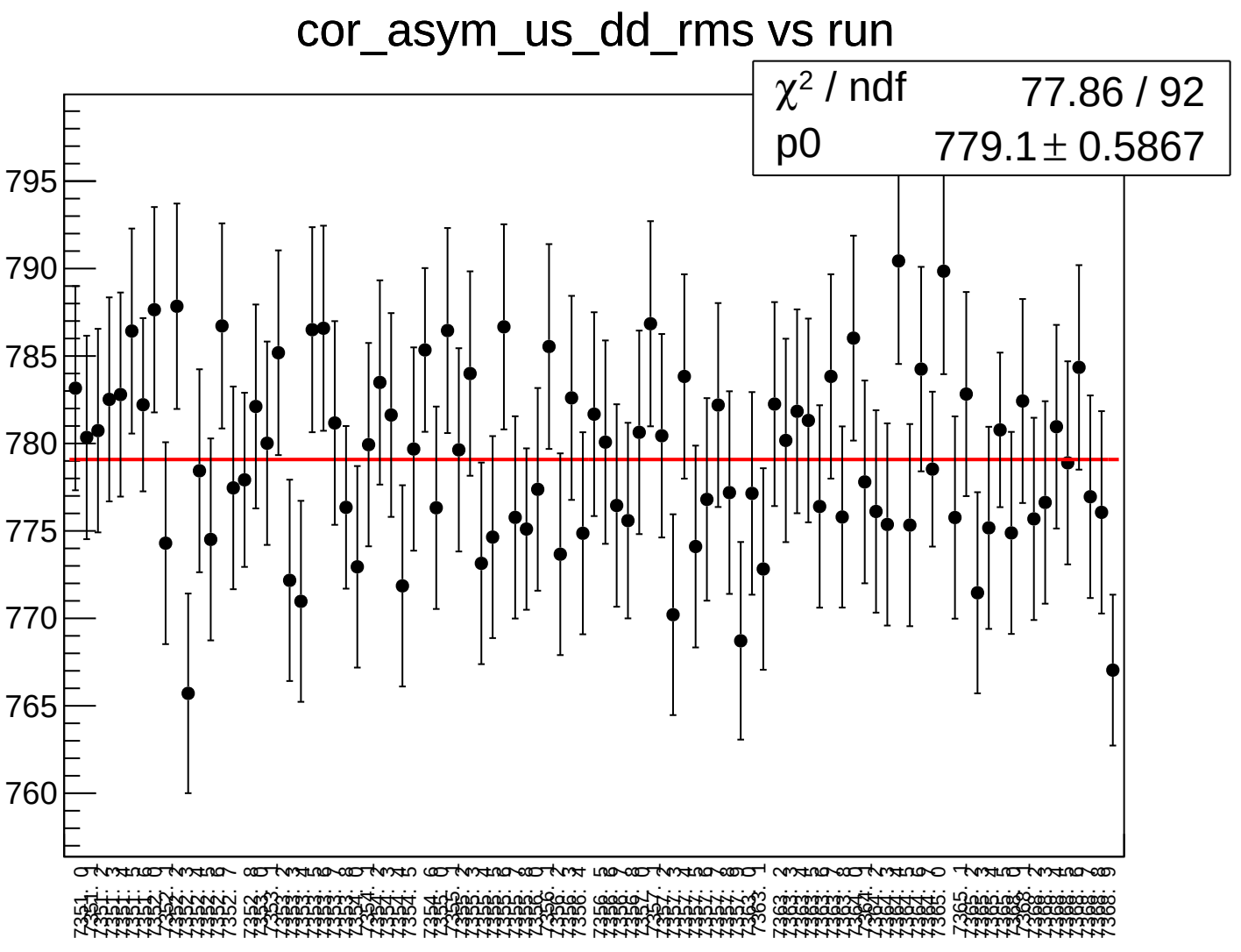

asym_right_dd_rms vs run
χ² / ndf 8701 / 92
p0 1059 ± 0.7998
1400
1300
1200
1100
1000

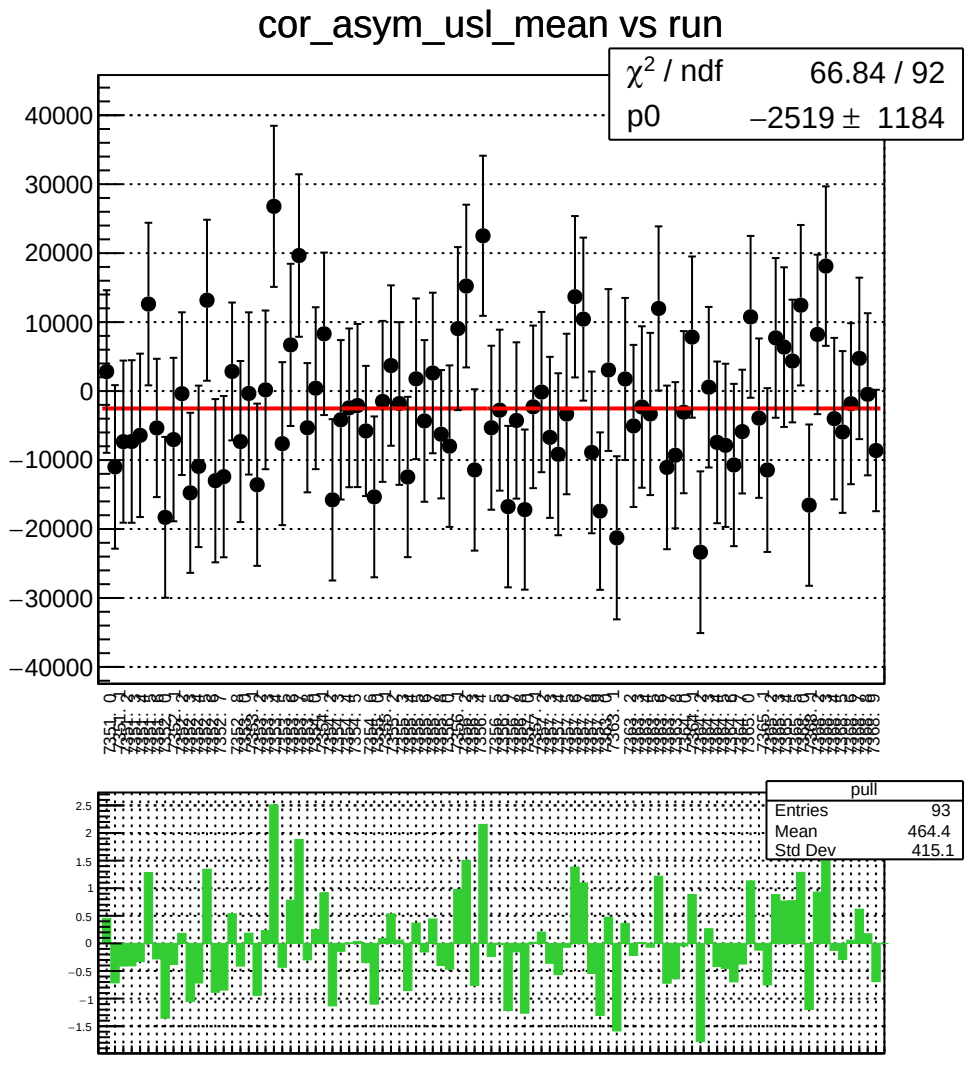

cor_asym_us_avg_mean vs run
χ² / ndf 69.65 / 92
p0 −1290 ± 833.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −70.04
Std Dev 129
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005206
Std Dev 0.8654
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

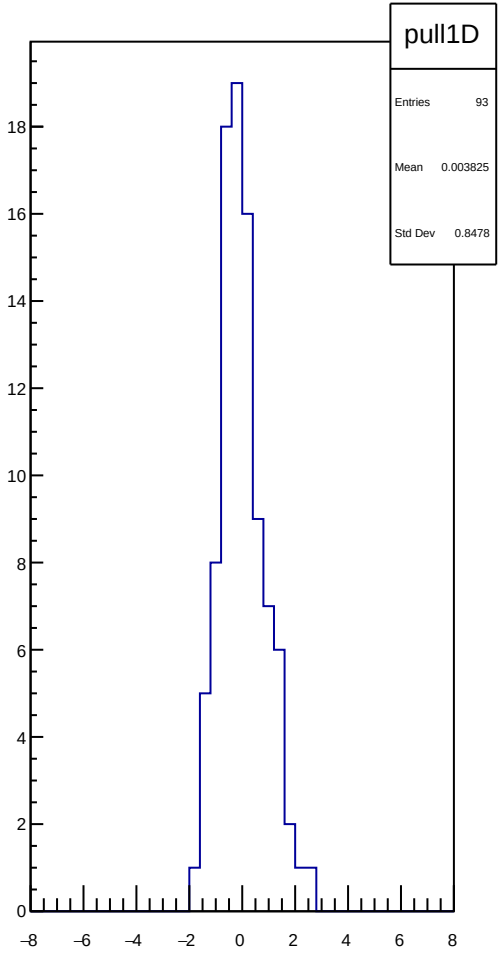

cor_asym_us_avg_rms vs run
χ² / ndf 85.96 / 92
p0 782.6 ± 0.5893
800
790
780
770
760

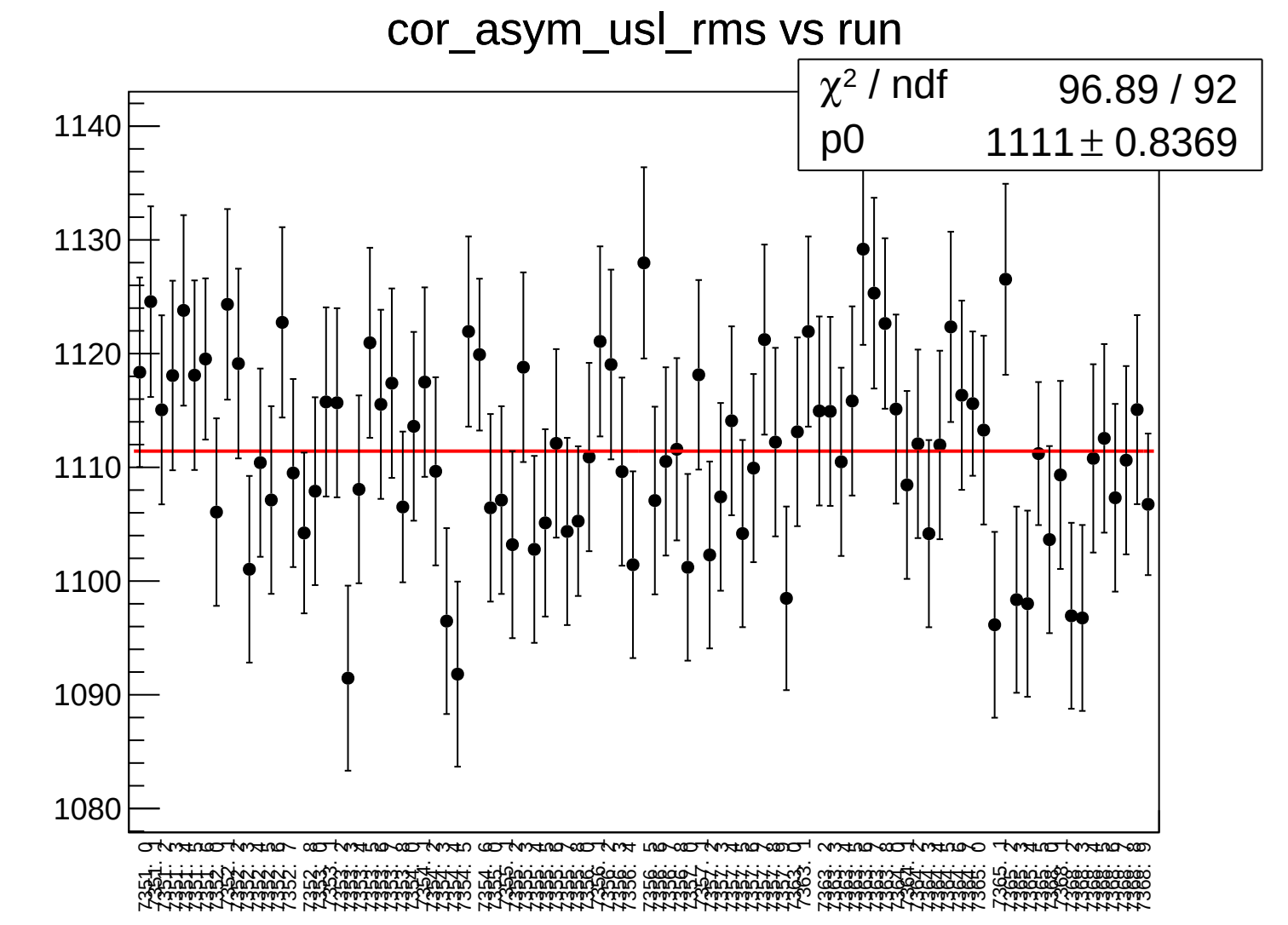

cor_asym_us_dd_mean vs run
χ² / ndf 90.72 / 92
p0 −1244 ± 829.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 2624
Std Dev 2573
2
1
0
−1
−2
−3

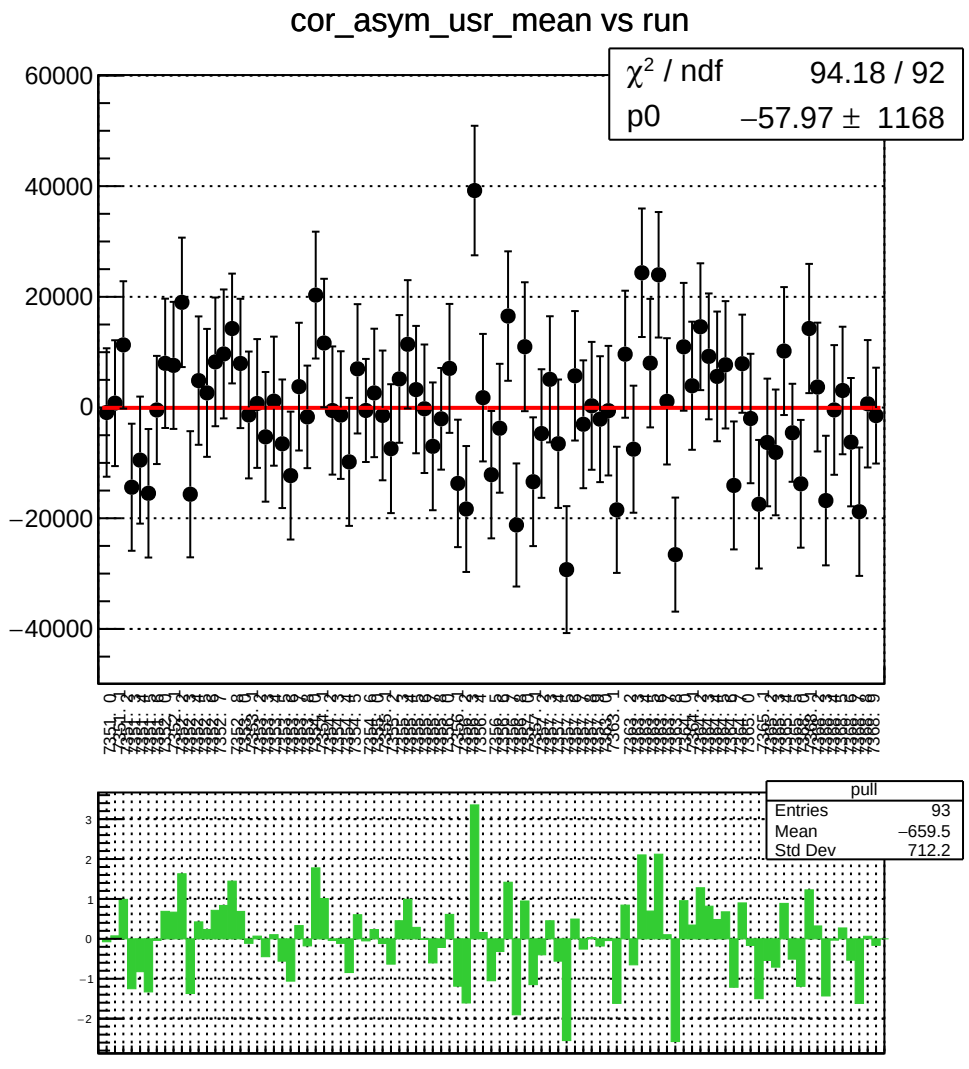

pull1D
Entries 93
Mean 0.001121
Std Dev 0.9877
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

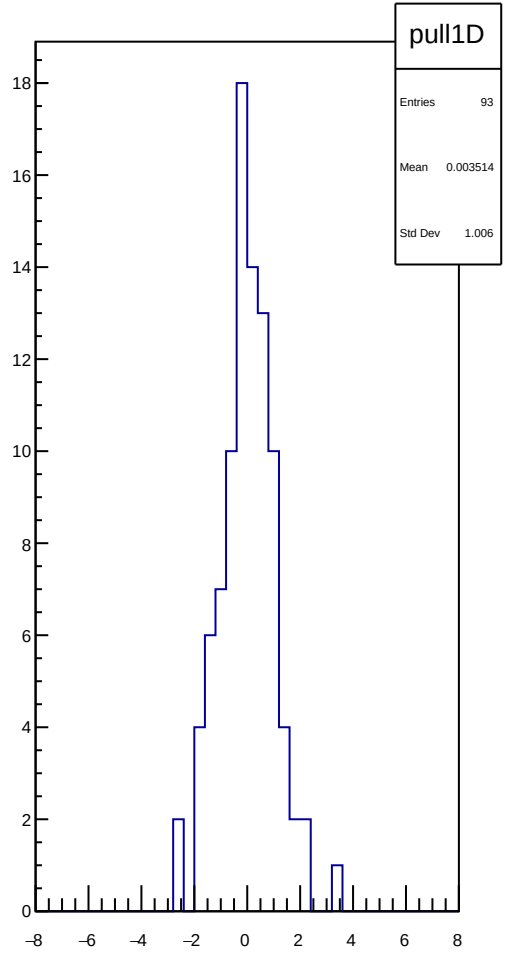

cor_asym_us_dd_rms vs run
χ² / ndf 77.86 / 92
p0 779.1 ± 0.5867
795
790
785
780
775
770
765
760

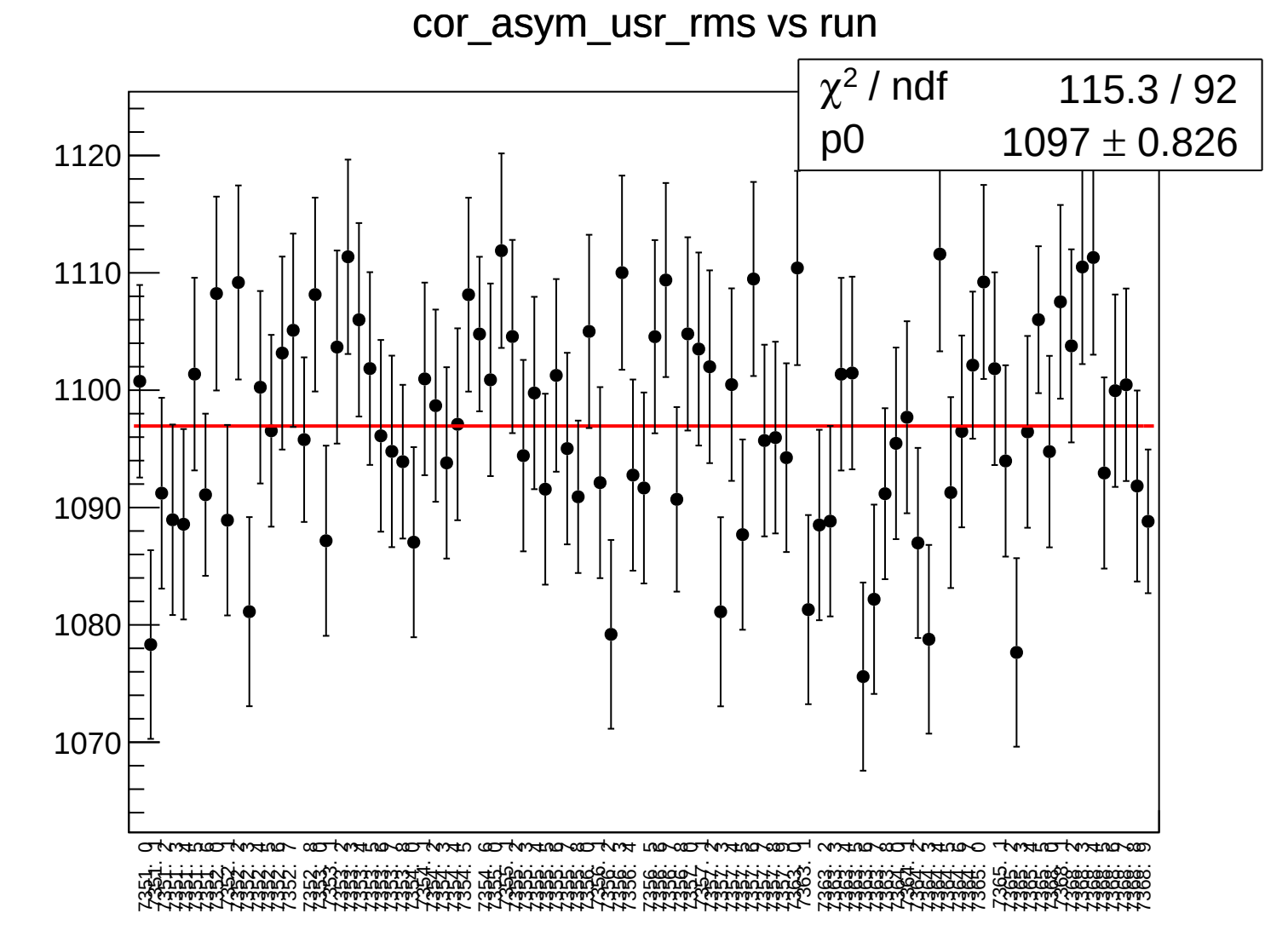

cor_asym_usl_mean vs run
χ² / ndf 66.84 / 92
p0 −2519 ± 1184
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean 464.4
Std Dev 415.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

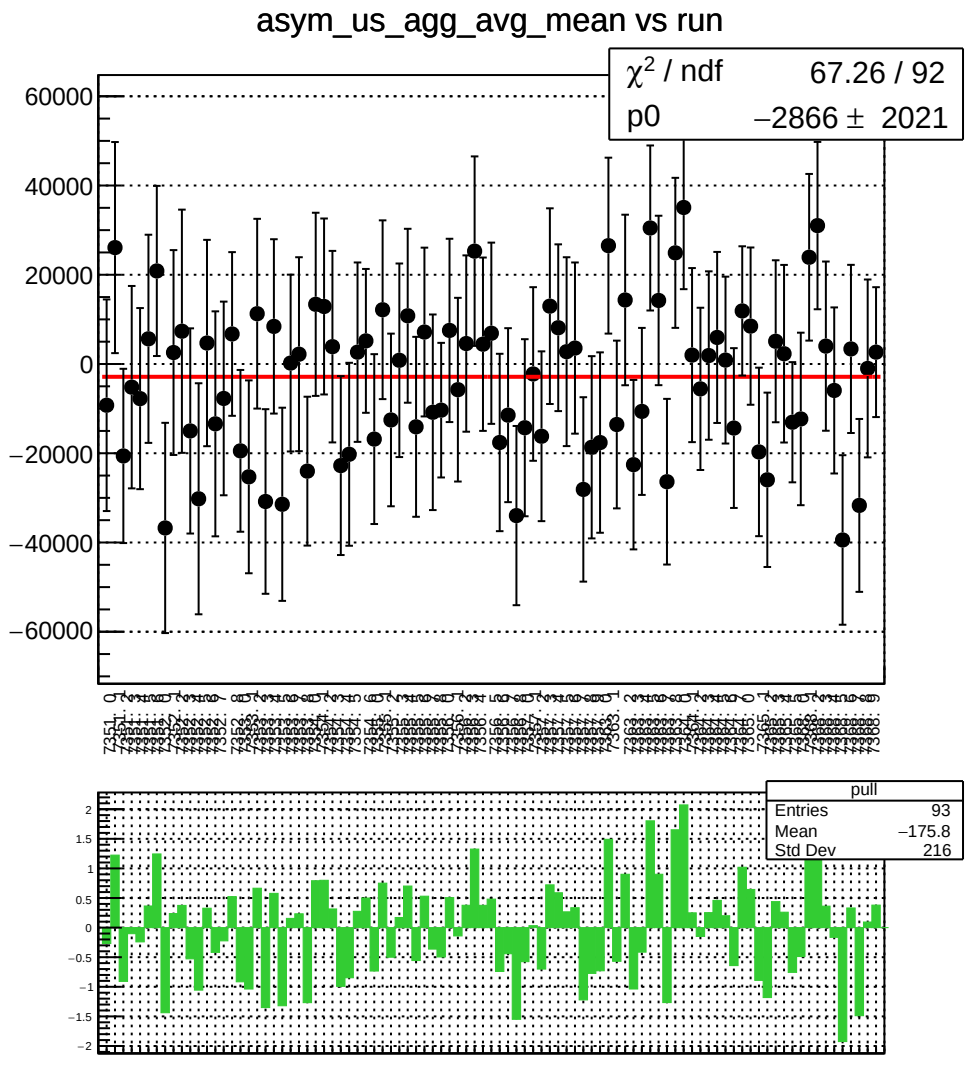

pull1D
Entries 93
Mean 0.003825
Std Dev 0.8478
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

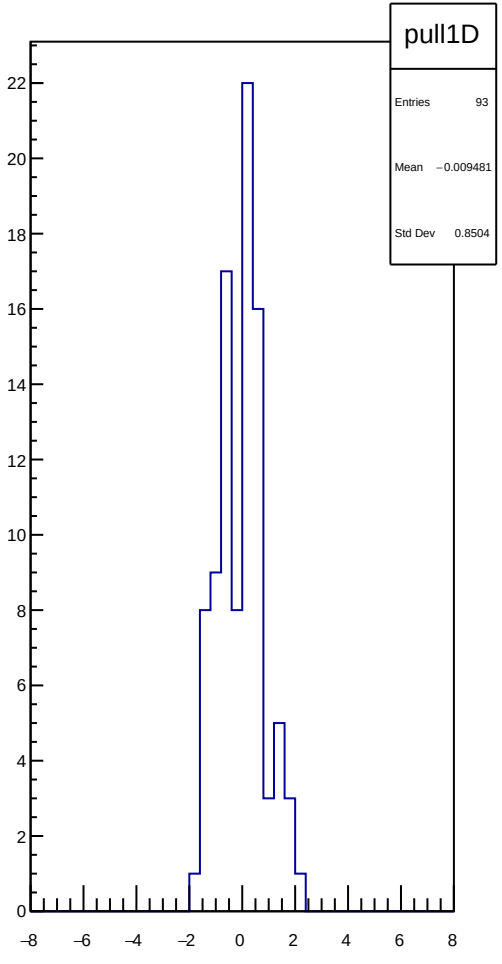

cor_asym_usl_rms vs run
χ² / ndf 96.89 / 92
p0 1111 ± 0.8369
1140
1130
1120
1110
1100
1090
1080

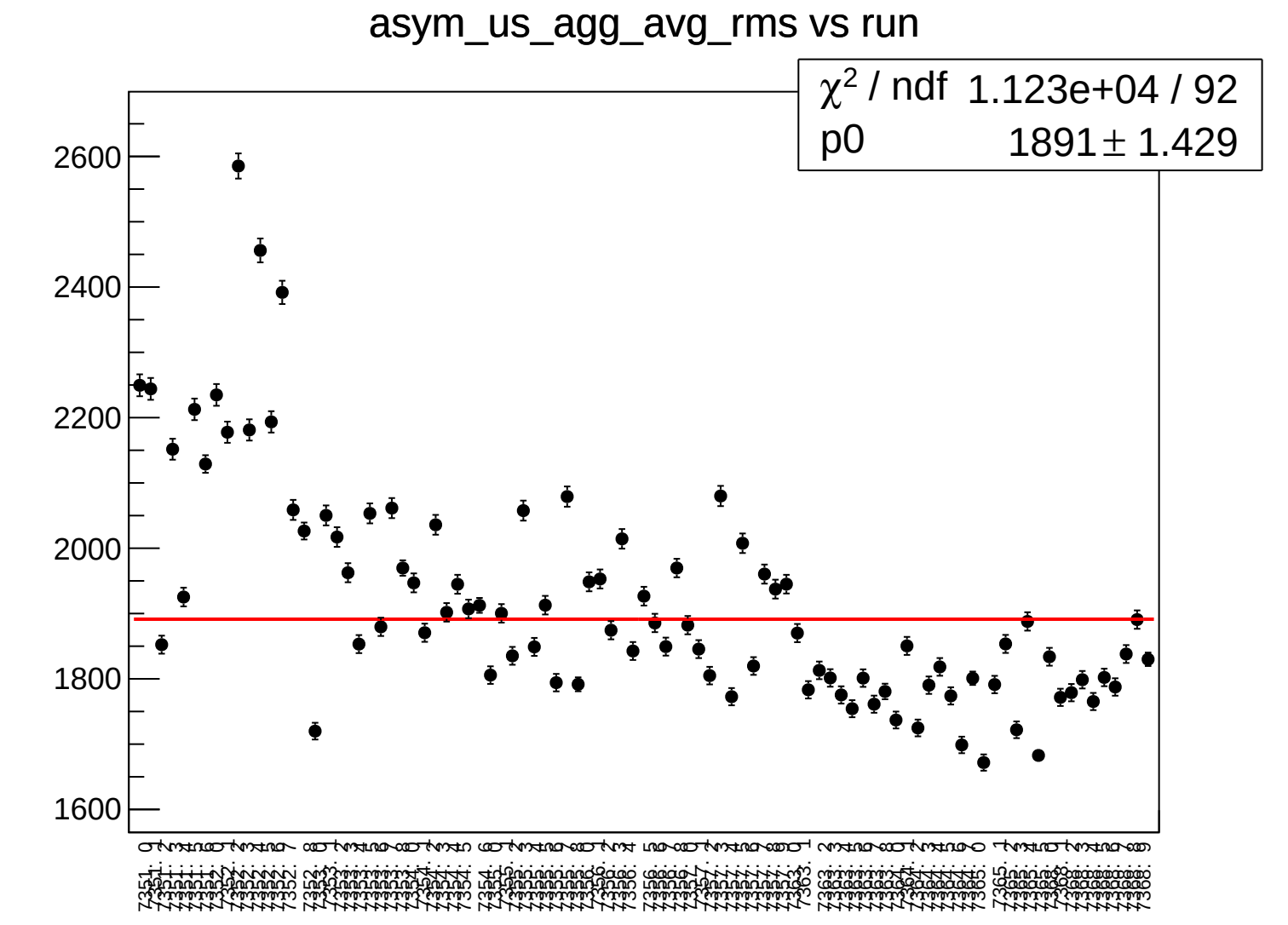

cor_asym_usr_mean vs run
χ² / ndf 94.18 / 92
p0 −57.97 ± 1168
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −659.5
Std Dev 712.2
3
2
1
0
−1
−2

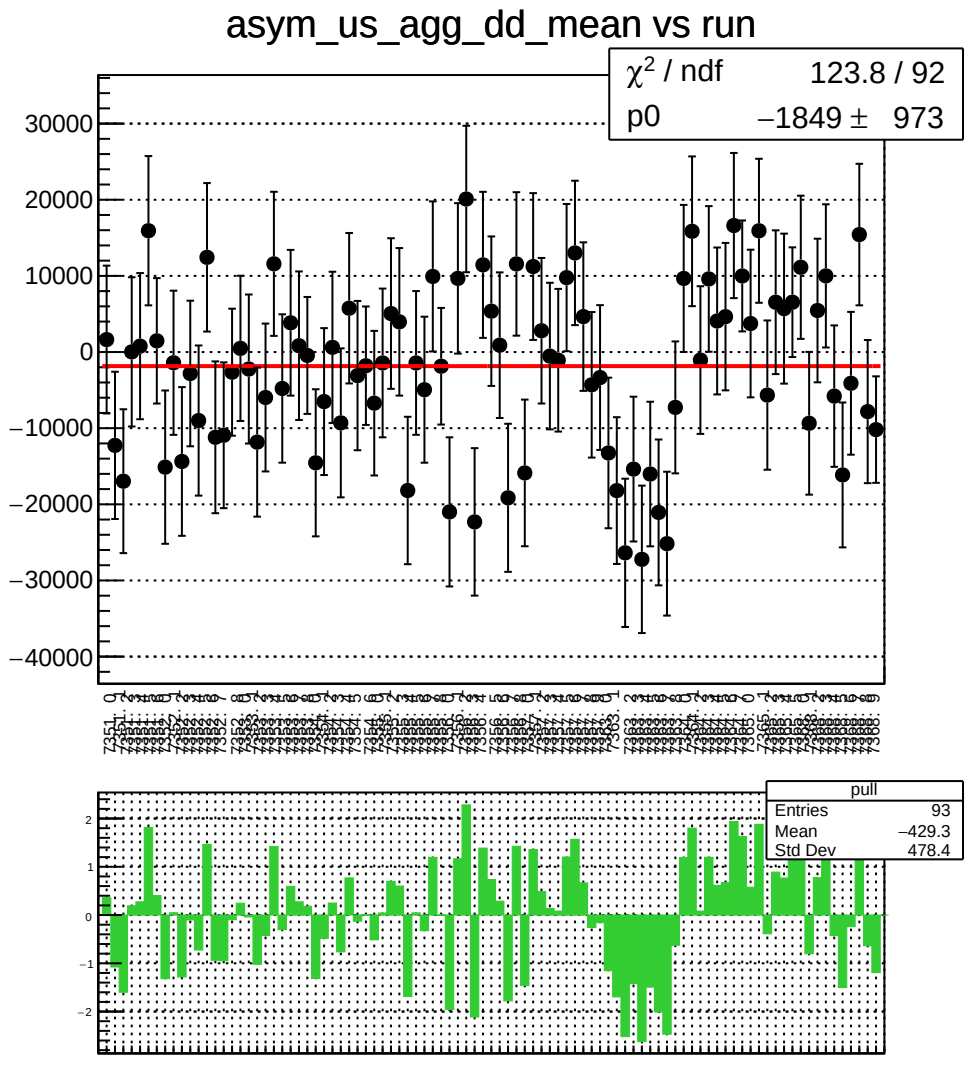

pull1D
Entries 93
Mean 0.003514
Std Dev 1.006
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

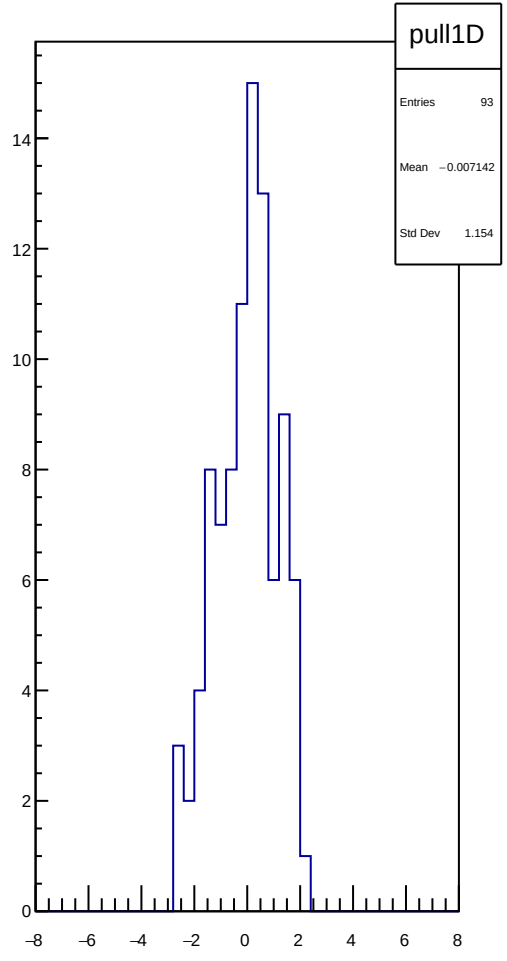

cor_asym_usr_rms vs run
χ^2 / ndf 115.3 / 92
p0 1097 ± 0.826
1120
1110
1100
1090
1080
1070

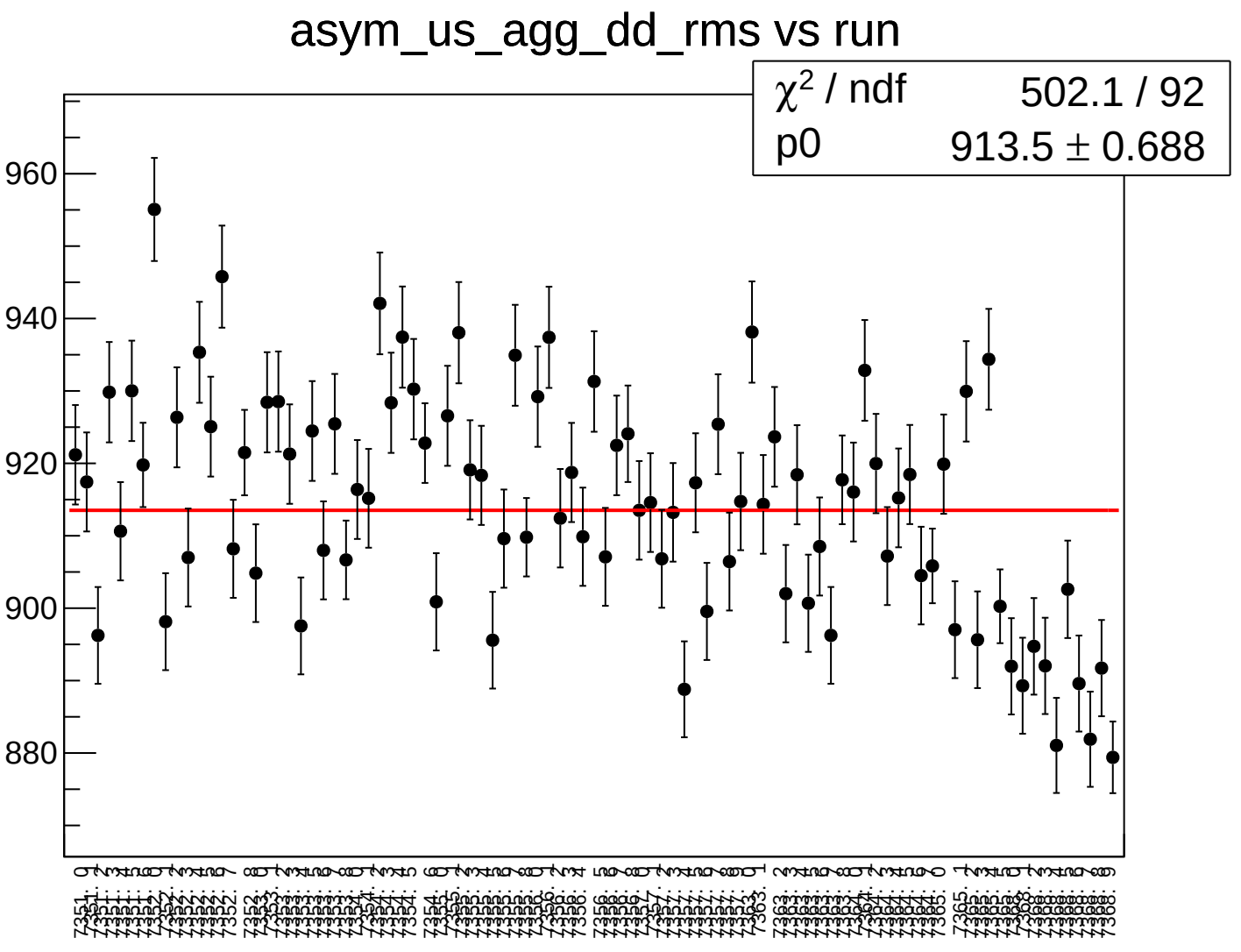

asym_us_agg_avg_mean vs run
χ² / ndf 67.26 / 92
p0 −2866 ± 2021
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −175.8
Std Dev 216
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

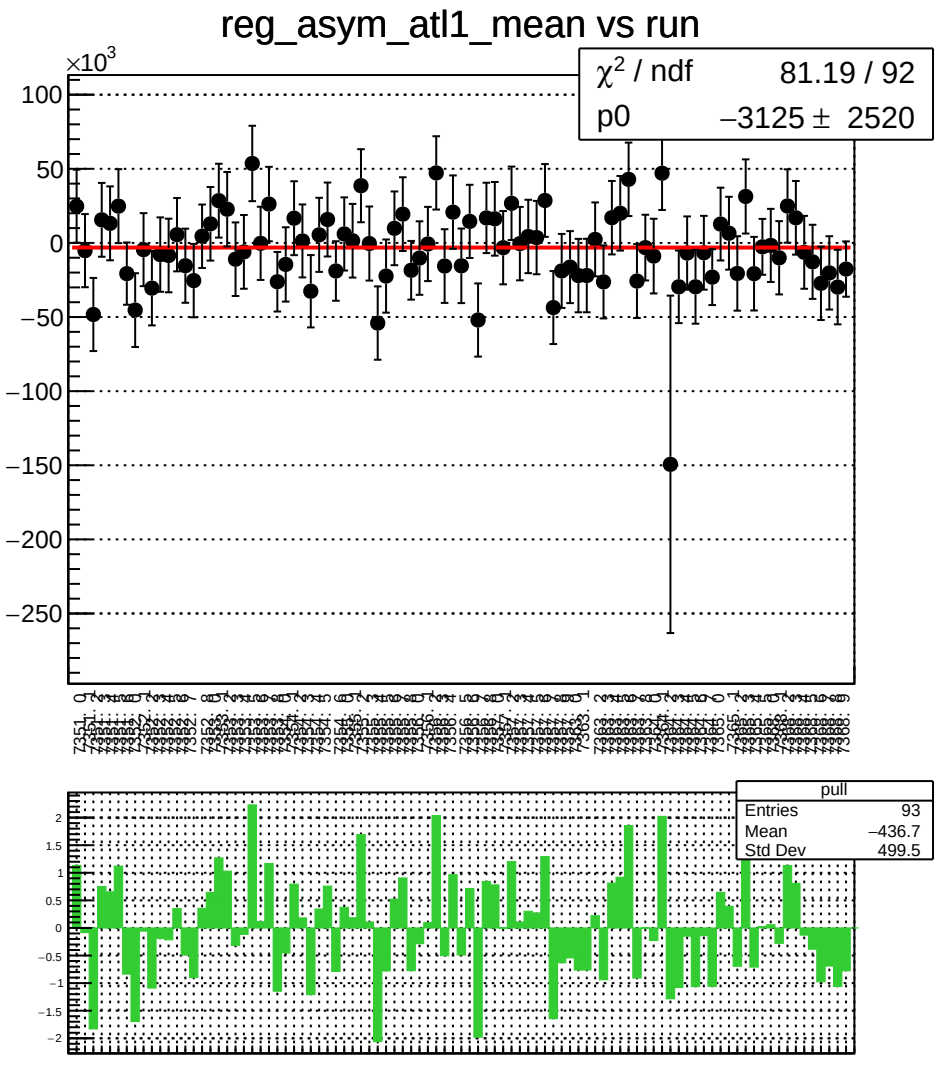

pull1D
Entries 93
Mean −0.009481
Std Dev 0.8504
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

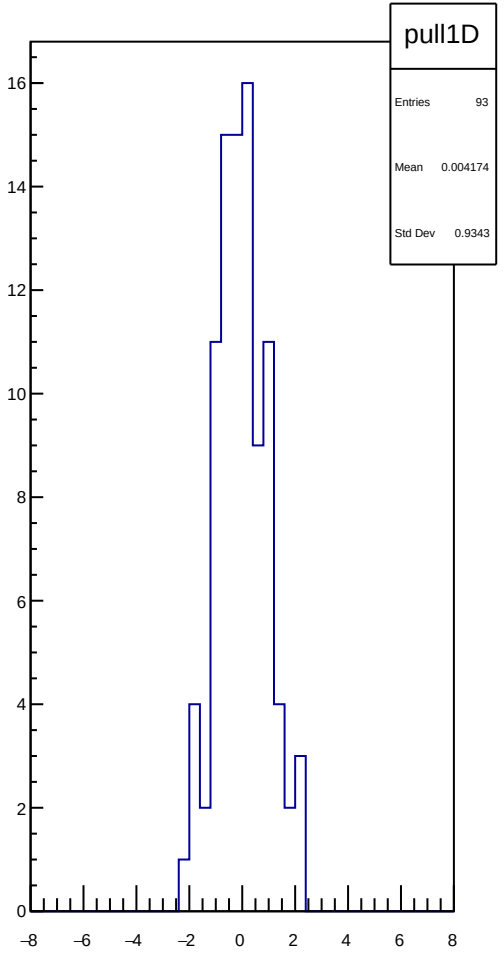

asym_us_agg_avg_rms vs run
χ² / ndf 1.123e+04 / 92
p0 1891 ± 1.429
2600
2400
2200
2000
1800
1600

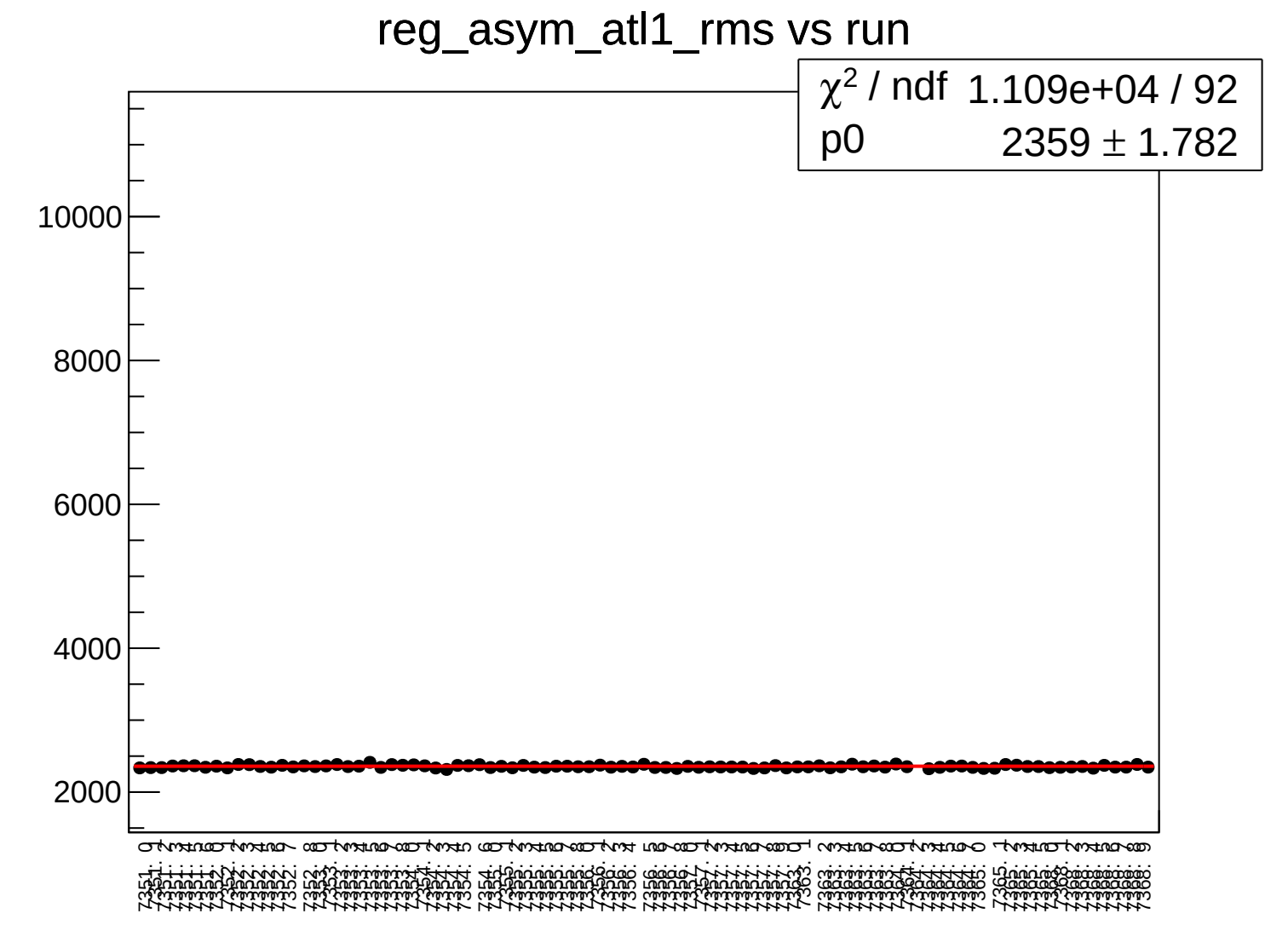

asym_us_agg_dd_mean vs run
χ² / ndf 123.8 / 92
p0 −1849 ± 973
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −429.3
Std Dev 478.4
2
1
0
−1
−2

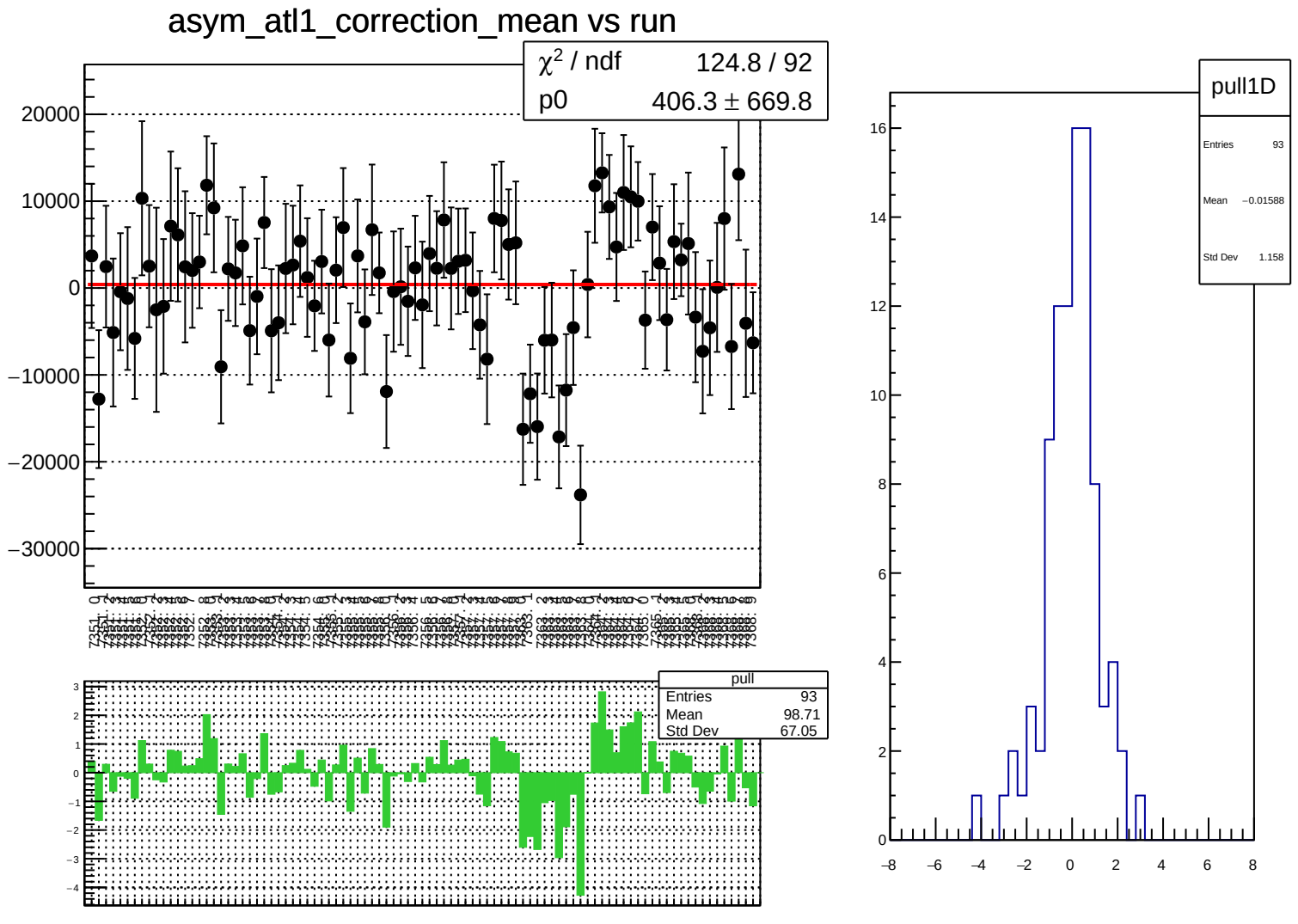

pull1D
Entries 93
Mean −0.007142
Std Dev 1.154
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

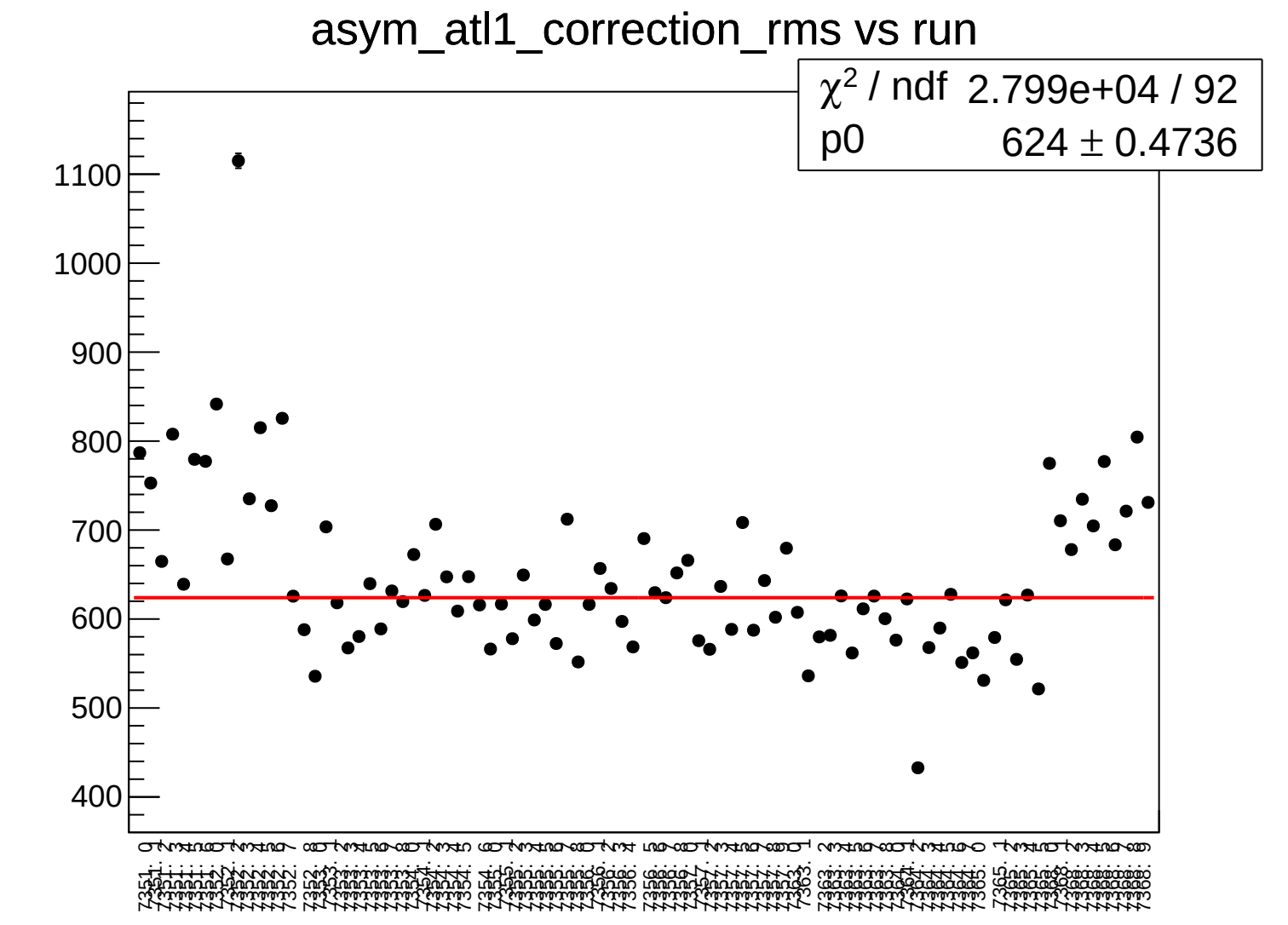

asym_us_agg_dd_rms vs run
χ^2 / ndf 502.1 / 92
p0 913.5 ± 0.688
960
940
920
900
880

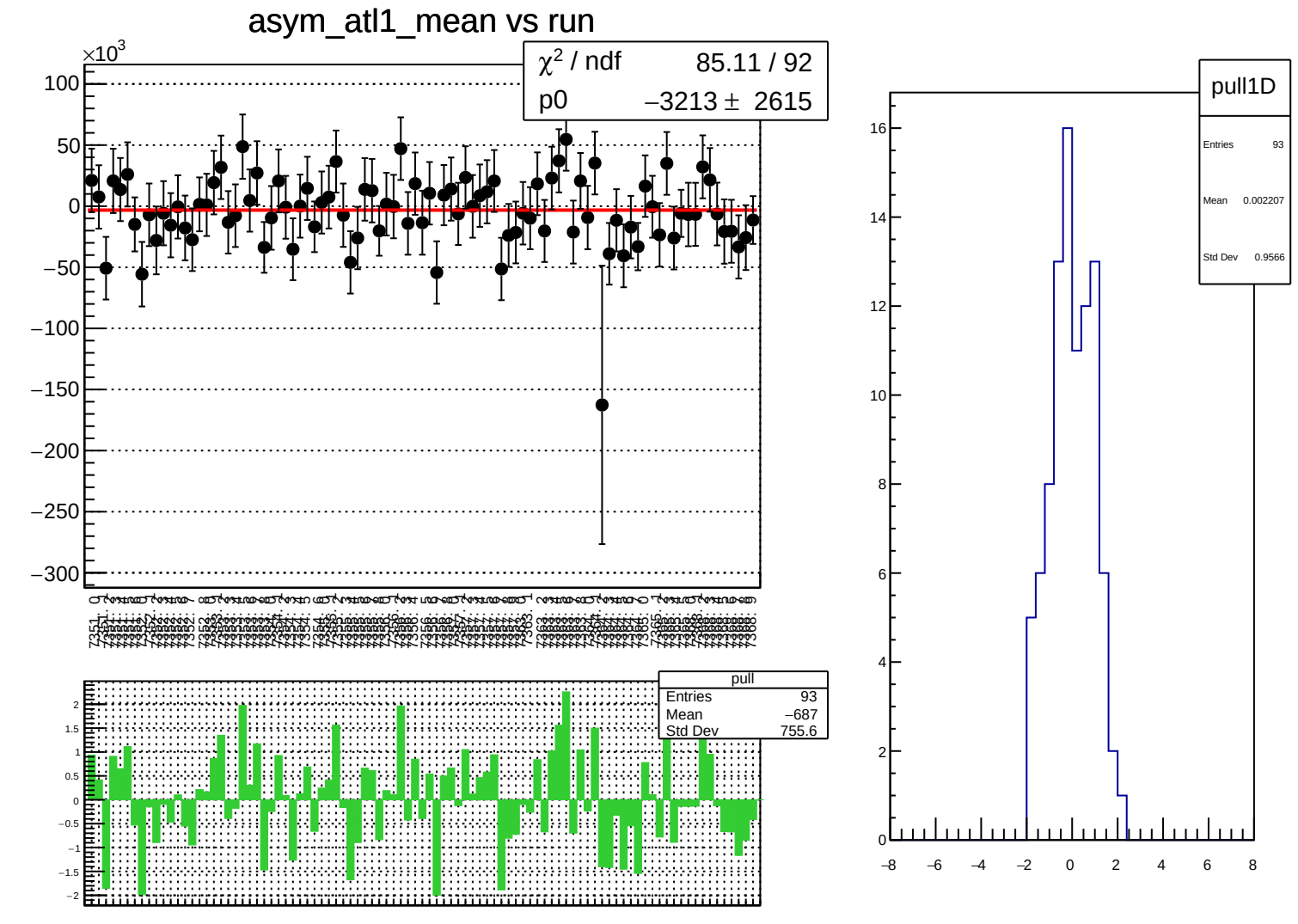

reg_asym_atl1_mean vs run
×10^3
χ^2 / ndf 81.19 / 92
p0 −3125 ± 2520
pull
Entries 93
Mean −436.7
Std Dev 499.5

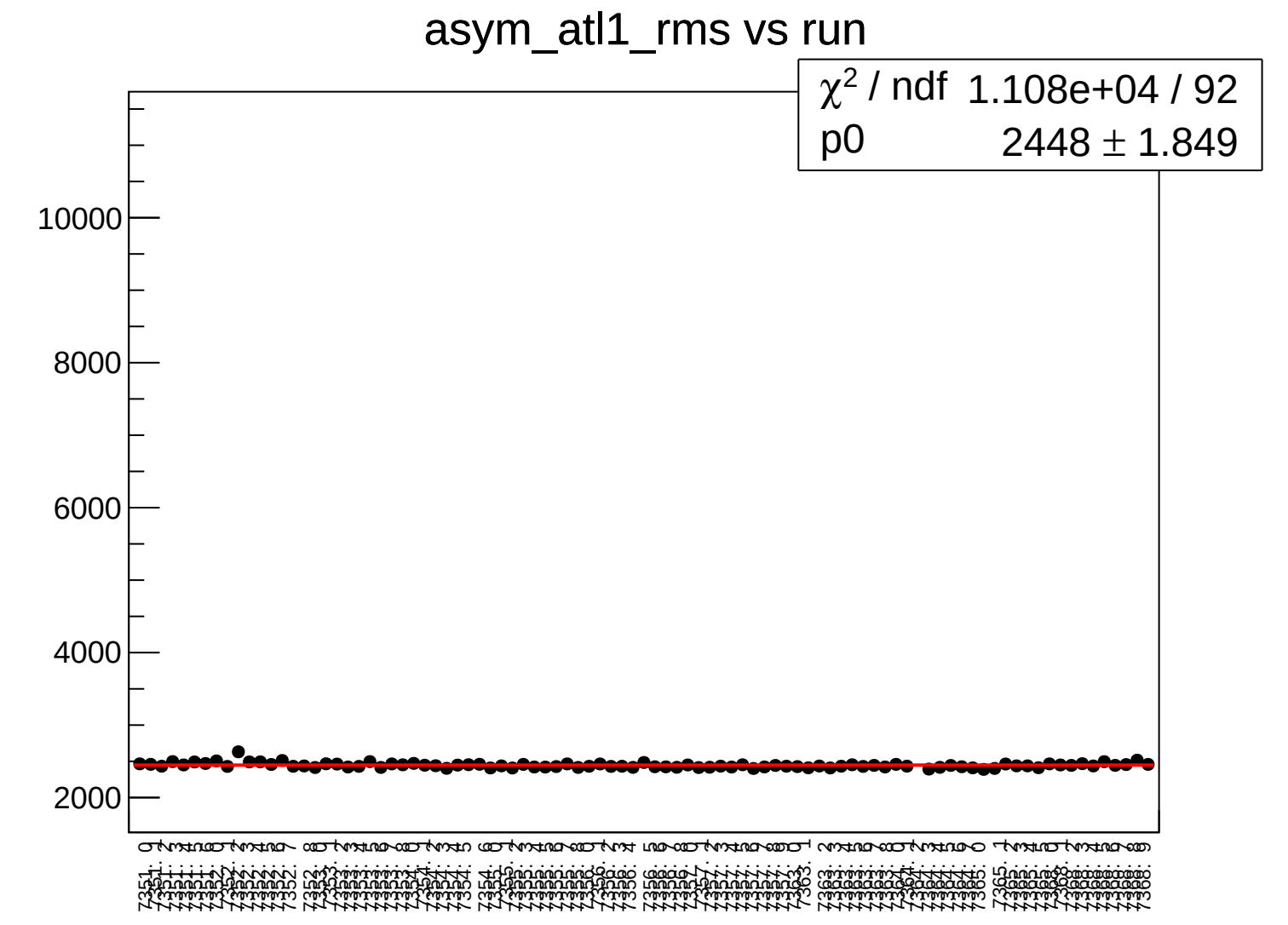

pull1D
Entries 93
Mean 0.004174
Std Dev 0.9343

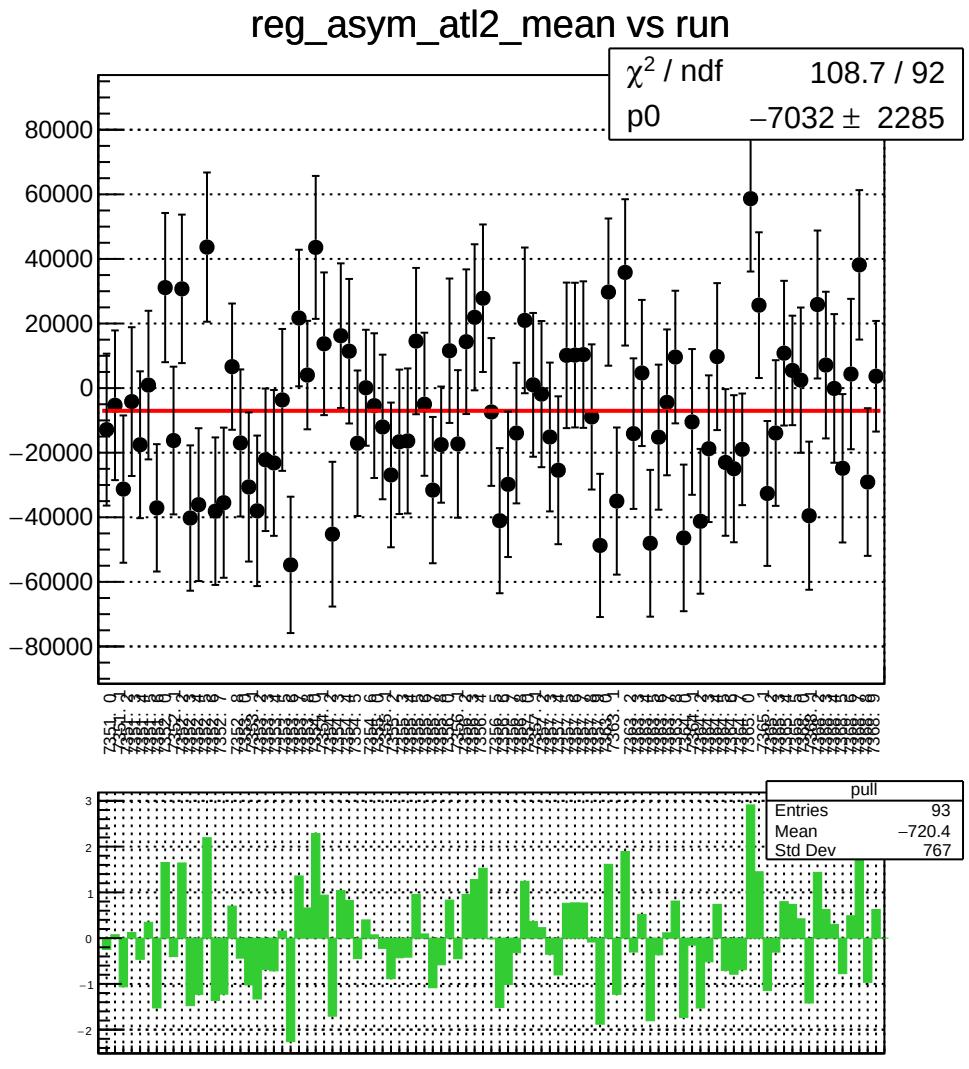

reg_asym_atl1_rms vs run
χ² / ndf 1.109e+04 / 92
p0 2359 ± 1.782
10000
8000
6000
4000
2000

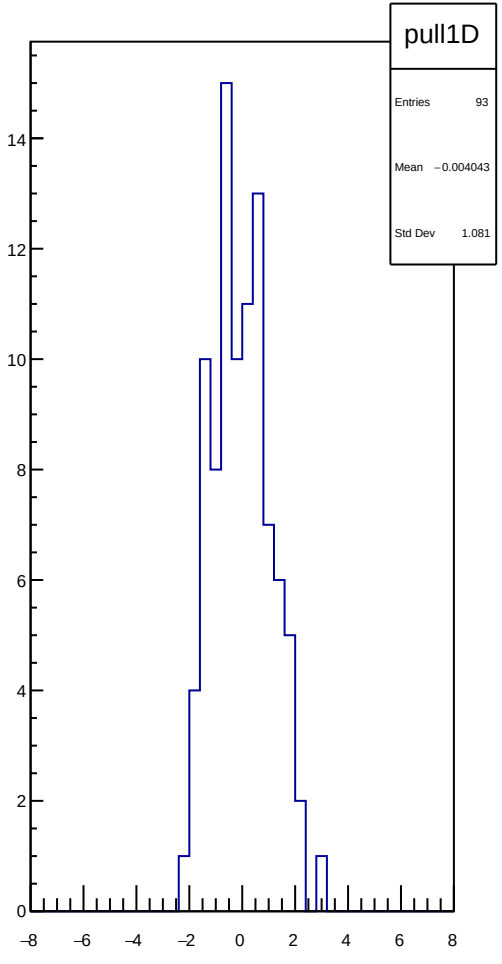

asym_atl1_correction_mean vs run
χ² / ndf 124.8 / 92
p0 406.3 ± 669.8
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean 98.71
Std Dev 67.05
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean −0.01588
Std Dev 1.158
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

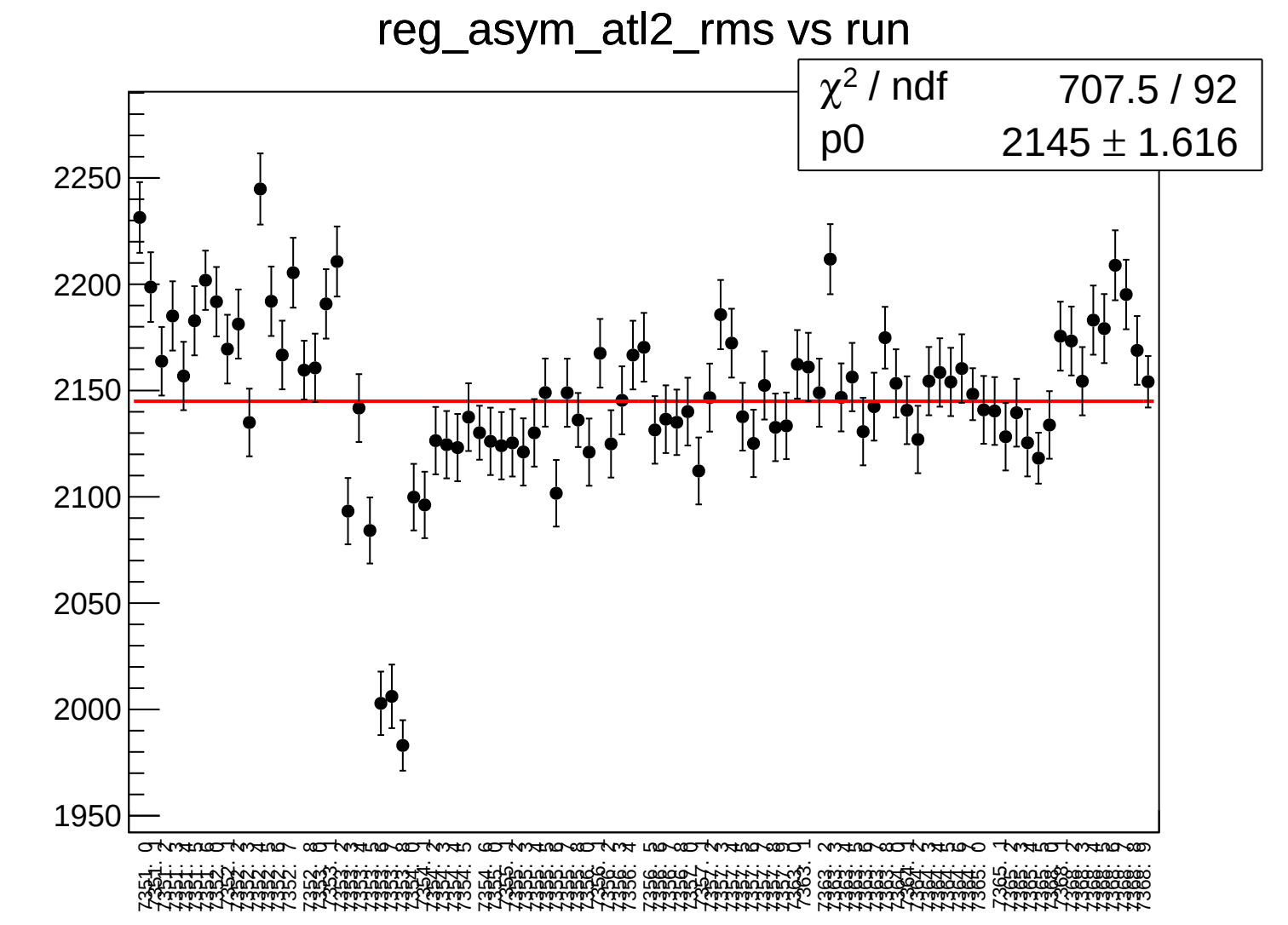

asym_atl1_correction_rms vs run
χ² / ndf 2.799e+04 / 92
p0 624 ± 0.4736
1100
1000
900
800
700
600
500
400

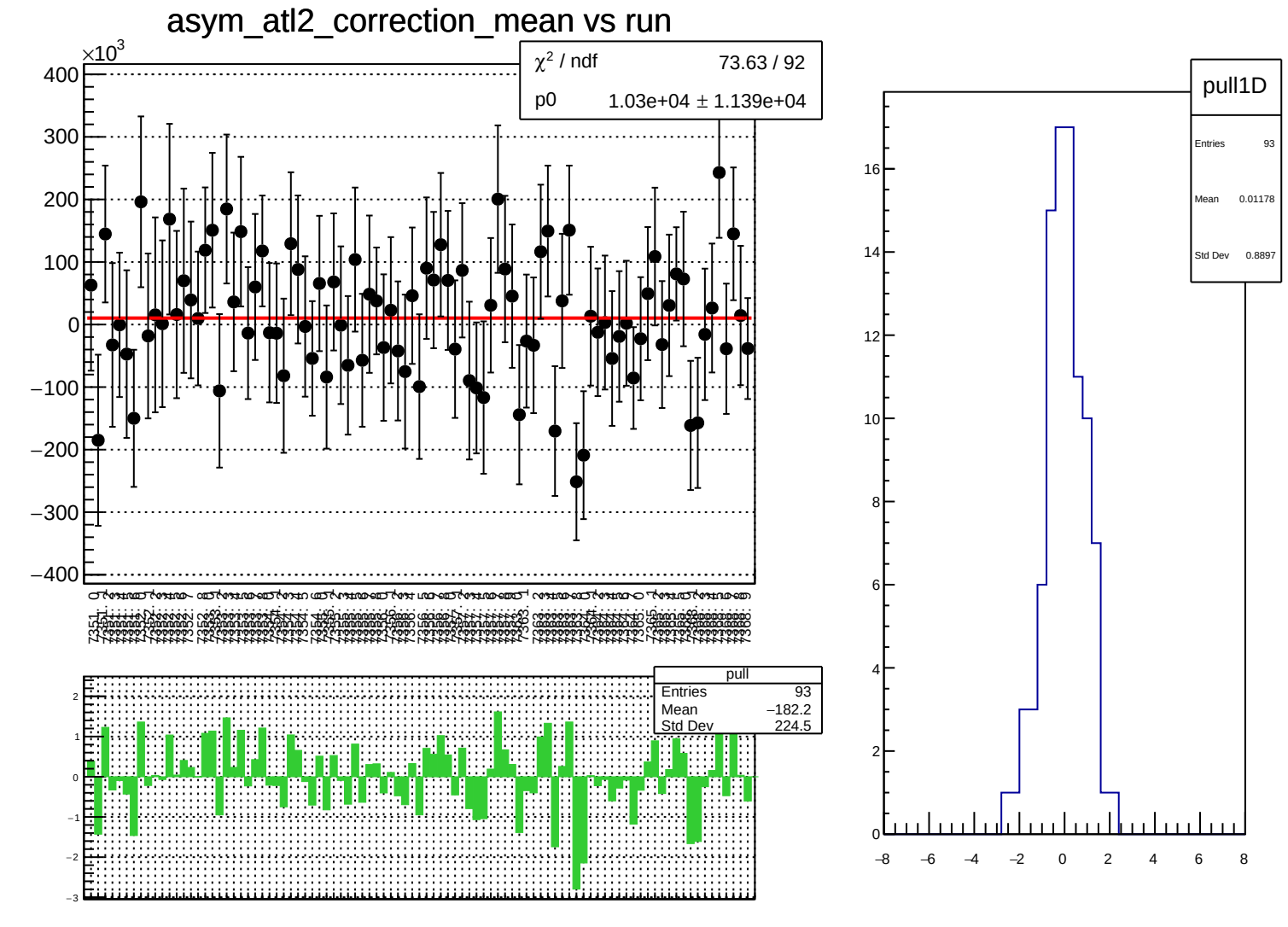

asym_atl1_mean vs run
×10^3
χ^2 / ndf 85.11 / 92
p0 −3213 ± 2615
pull
Entries 93
Mean −687
Std Dev 755.6
pull1D
Entries 93
Mean 0.002207
Std Dev 0.9566

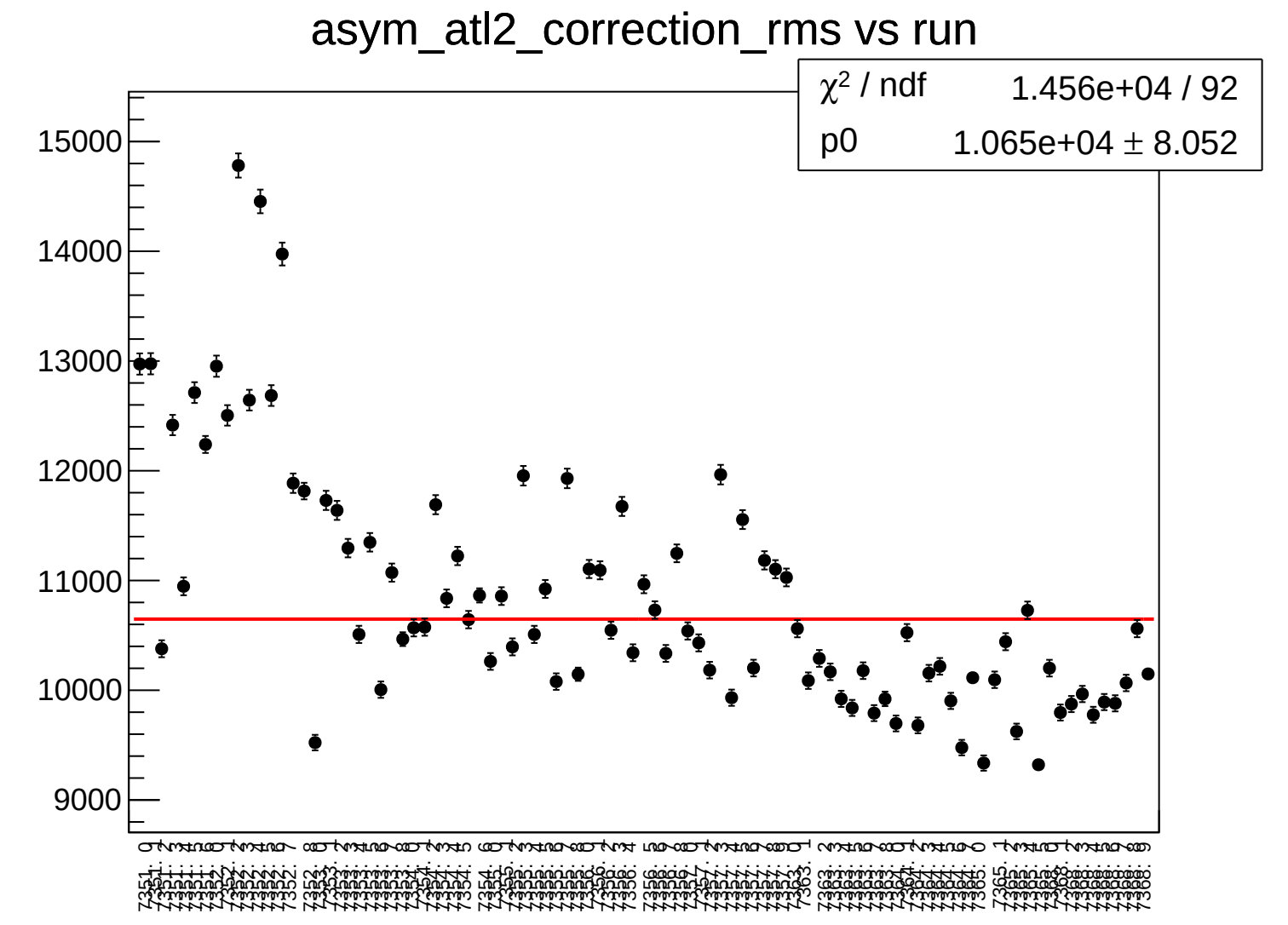

asym_atl1_rms vs run
χ² / ndf 1.108e+04 / 92
p0 2448 ± 1.849
10000
8000
6000
4000
2000

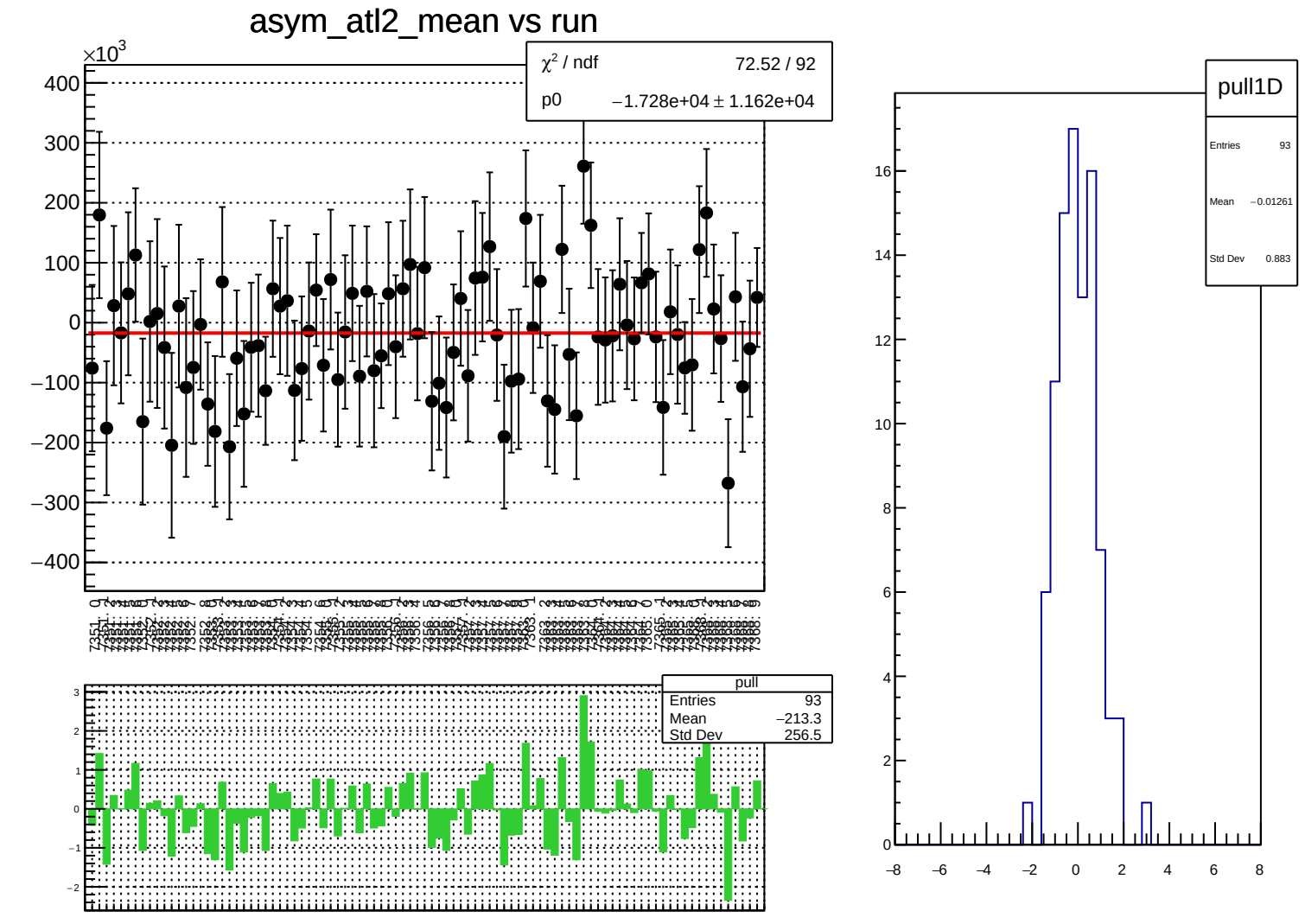

reg_asym_atl2_mean vs run
χ² / ndf 108.7 / 92
p0 −7032 ± 2285
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −720.4
Std Dev 767
3
2
1
0
−1
−2

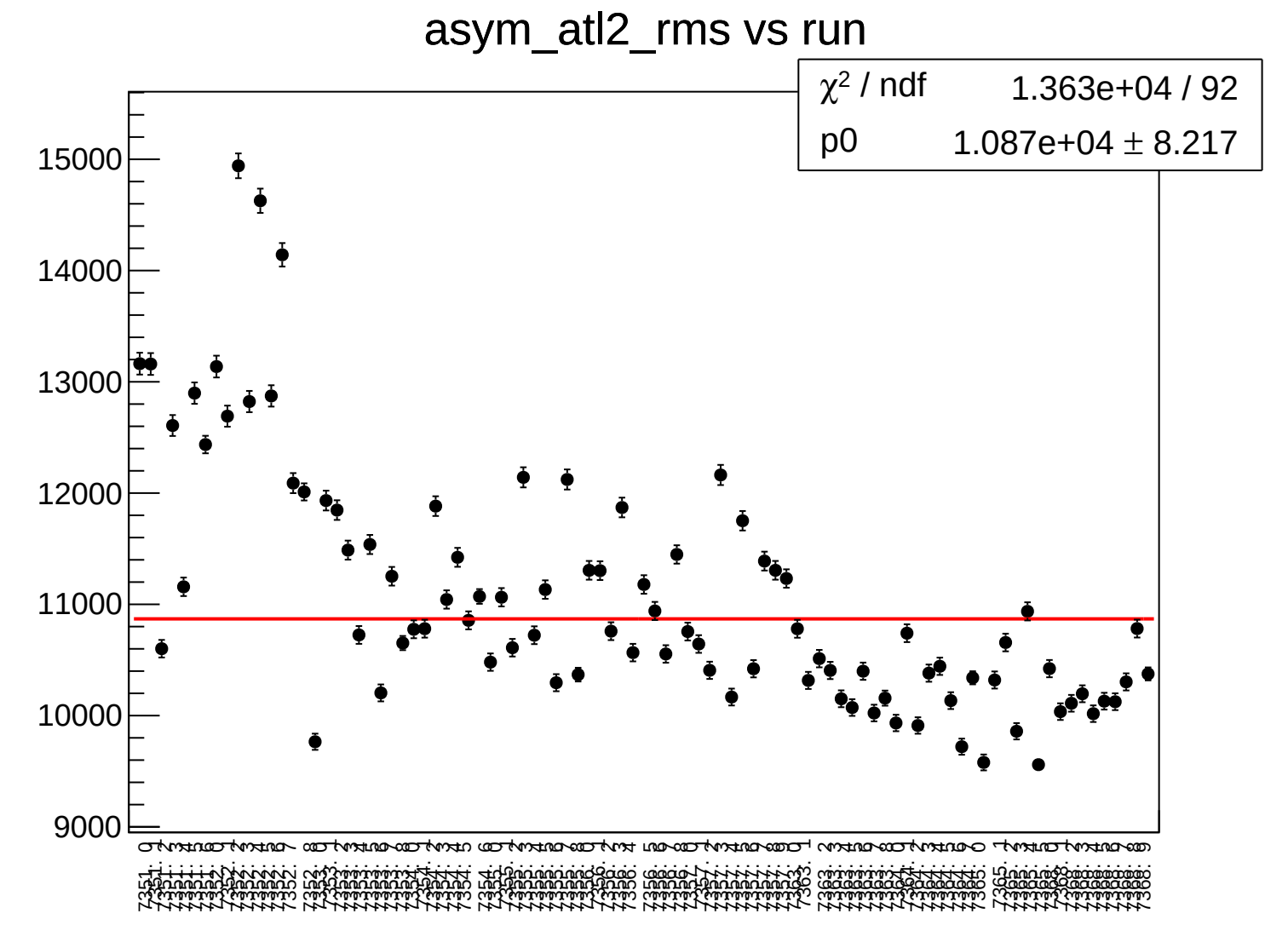

pull1D
Entries 93
Mean −0.004043
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

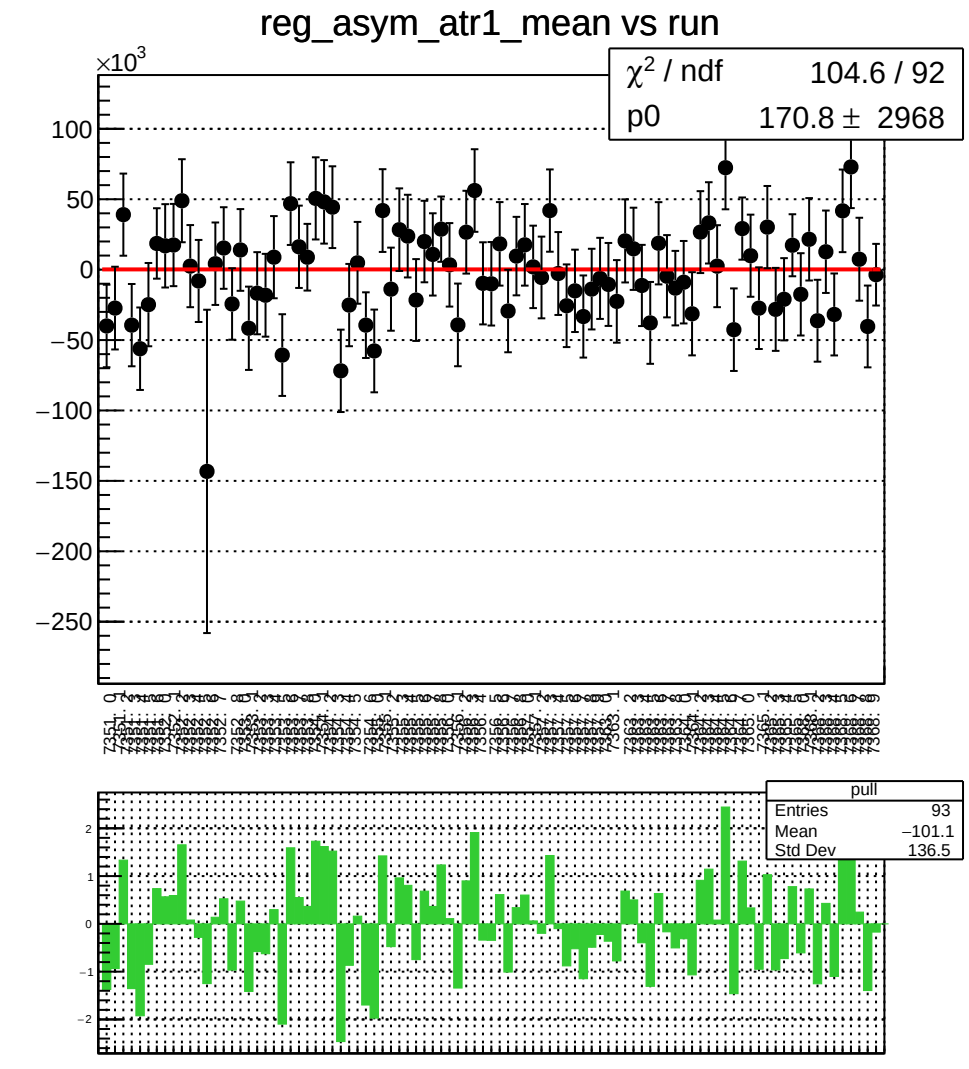

reg_asym_atl2_rms vs run
χ² / ndf 707.5 / 92
p0 2145 ± 1.616
2250
2200
2150
2100
2050
2000
1950

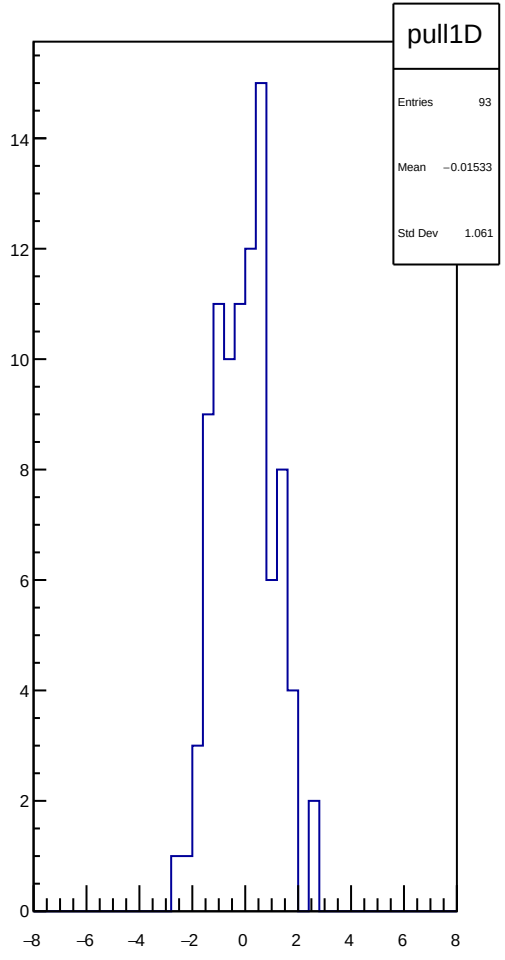

asym_atl2_correction_mean vs run
×10^3
χ² / ndf 73.63 / 92
p0 1.03e+04 ± 1.139e+04
pull
Entries 93
Mean −182.2
Std Dev 224.5
pull1D
Entries 93
Mean 0.01178
Std Dev 0.8897

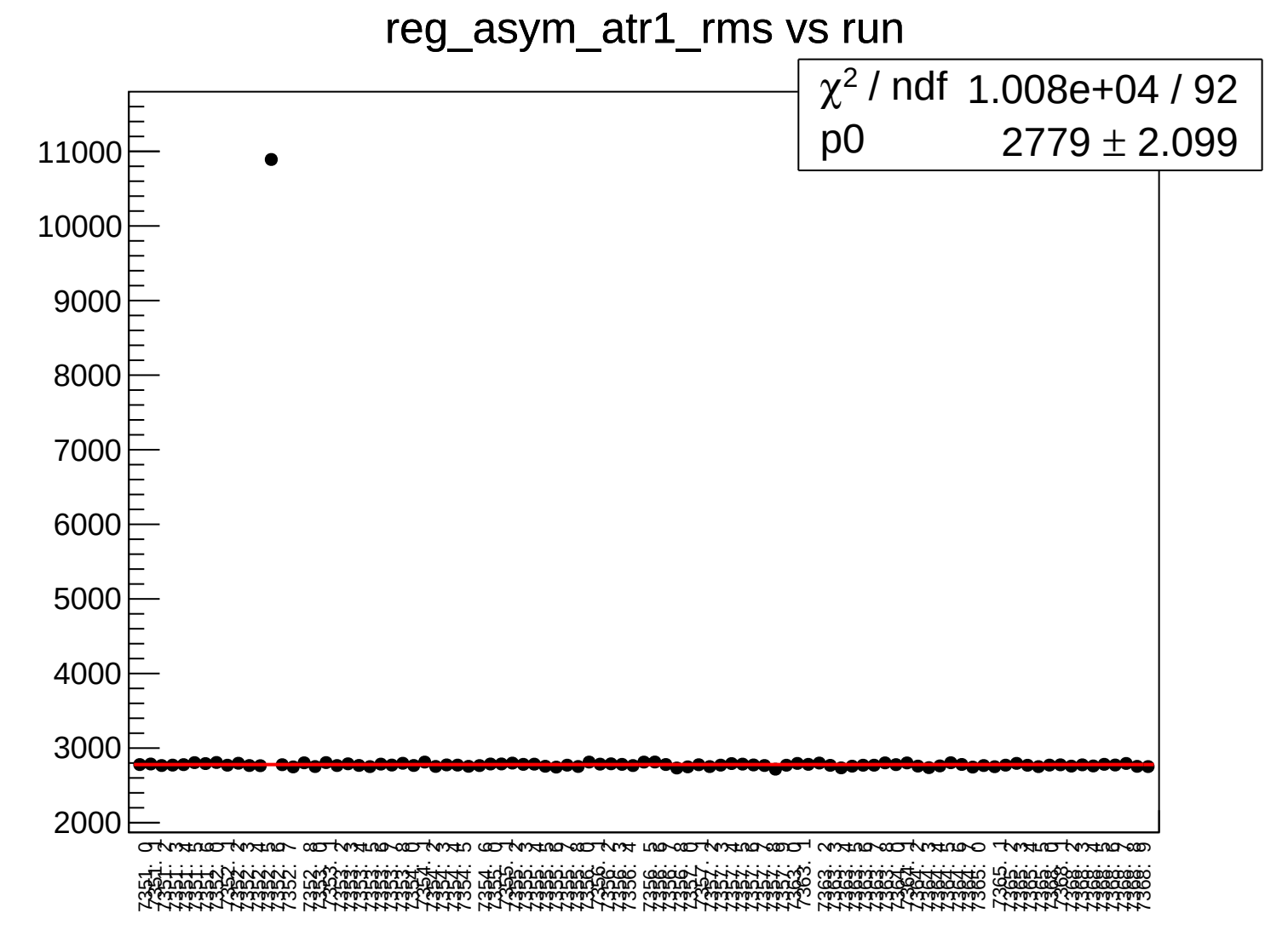

asym_atl2_correction_rms vs run
χ² / ndf 1.456e+04 / 92
p0 1.065e+04 ± 8.052
15000
14000
13000
12000
11000
10000
9000

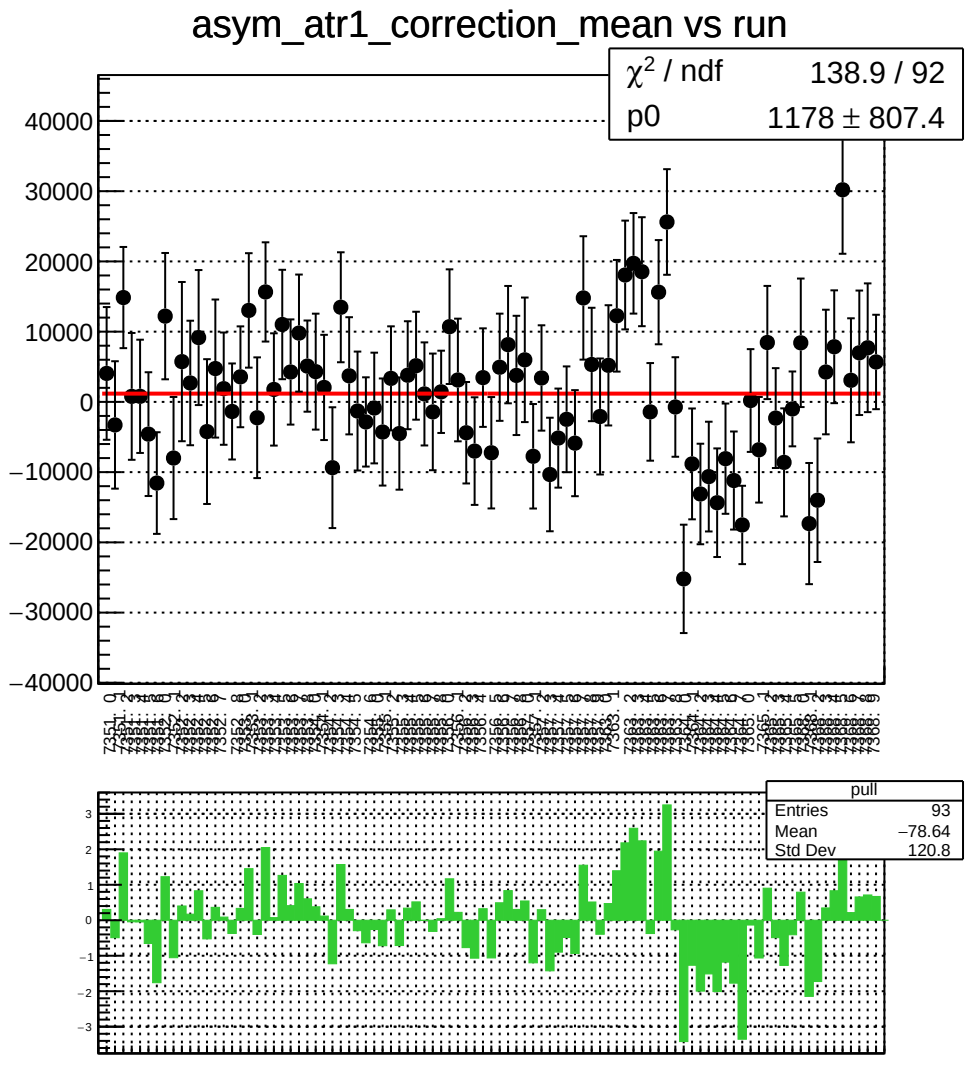

asym_atl2_mean vs run
×10^3
400
300
200
100
0
−100
−200
−300
−400
χ² / ndf 72.52 / 92
p0 −1.728e+04 ± 1.162e+04
pull
Entries 93
Mean −213.3
Std Dev 256.5
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.01261
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

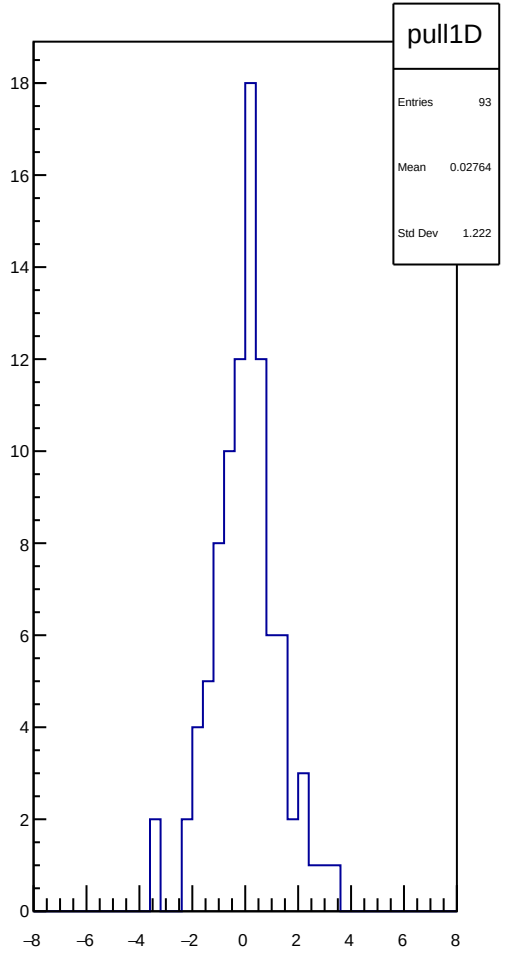

asym_atl2_rms vs run
χ² / ndf 1.363e+04 / 92
p0 1.087e+04 ± 8.217
15000
14000
13000
12000
11000
10000
9000

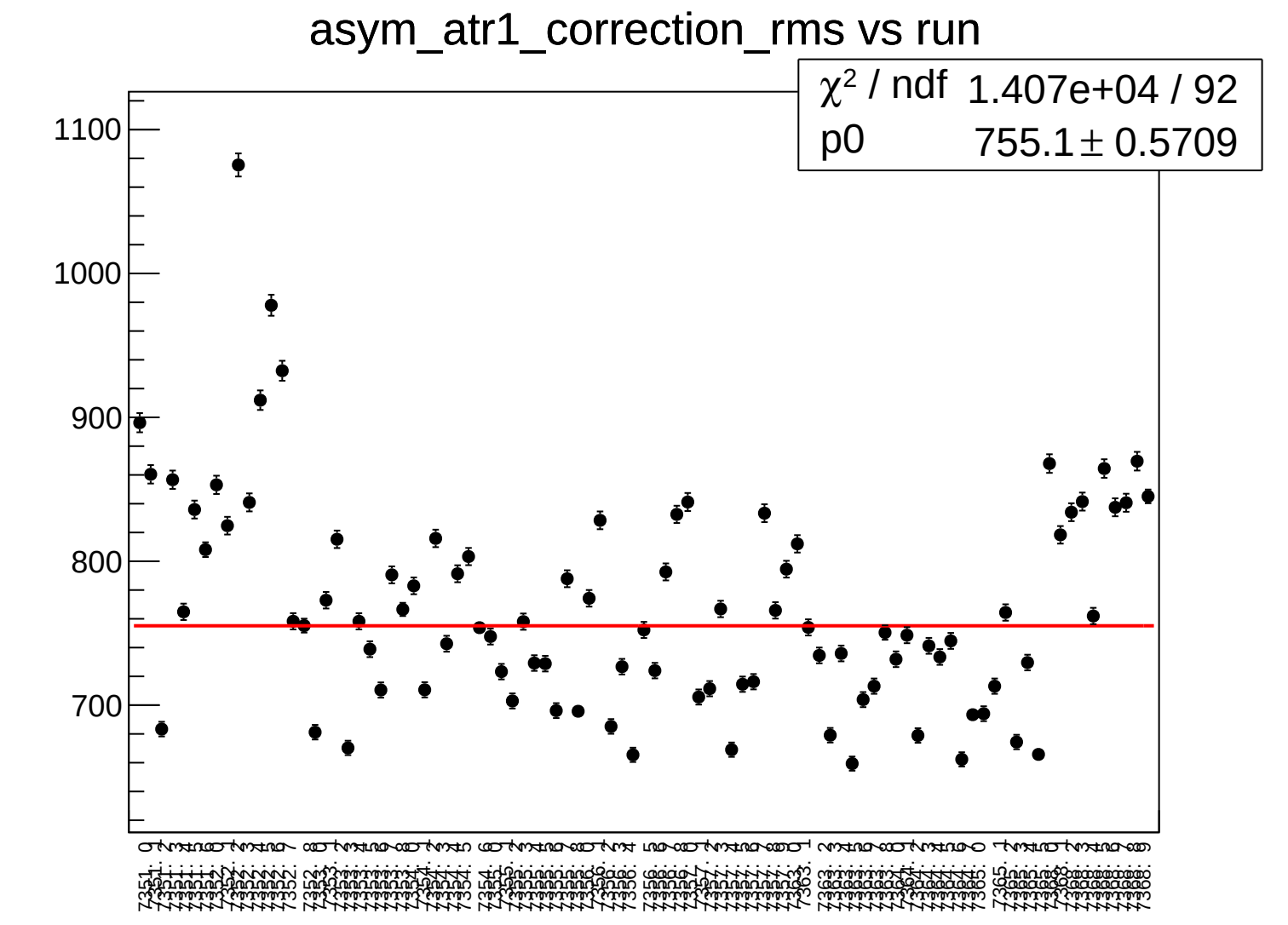

reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 104.6 / 92
p0 170.8 ± 2968
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −101.1
Std Dev 136.5
2
1
0
−1
−2

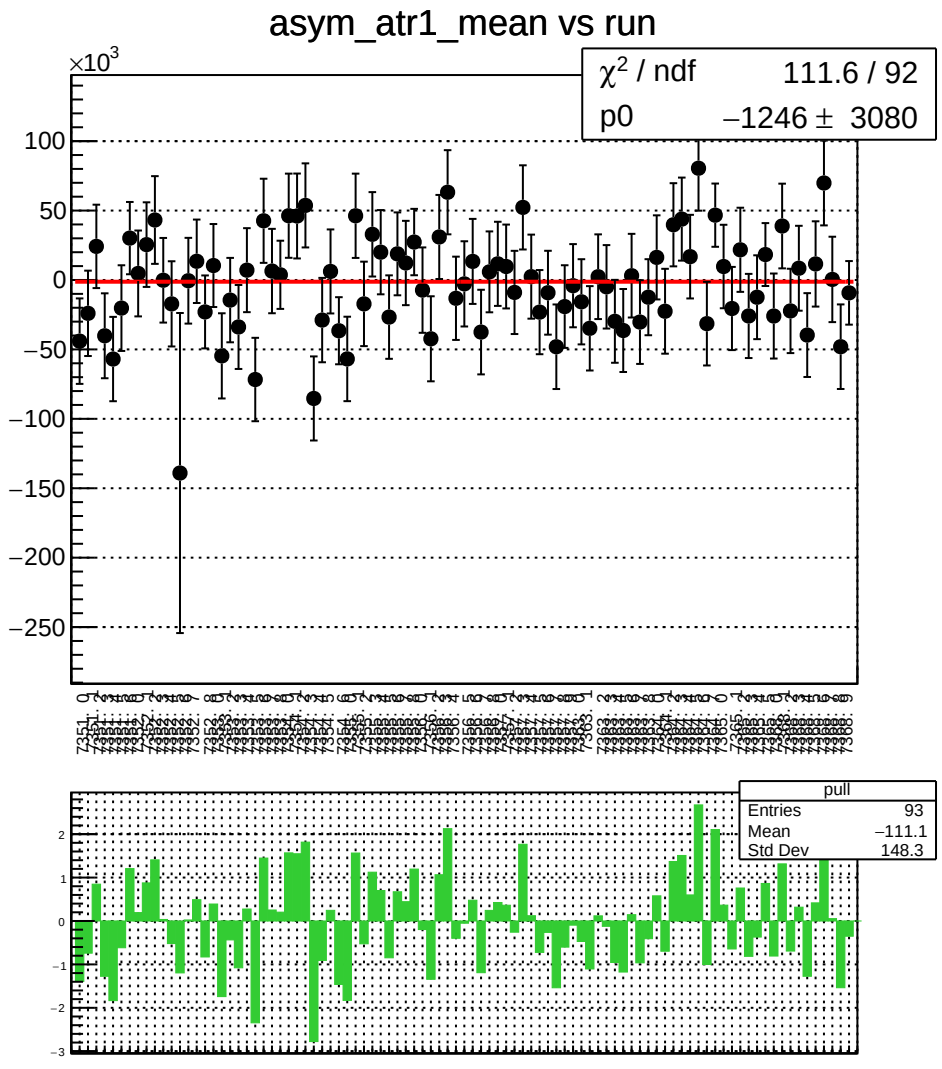

pull1D
Entries 93
Mean −0.01533
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

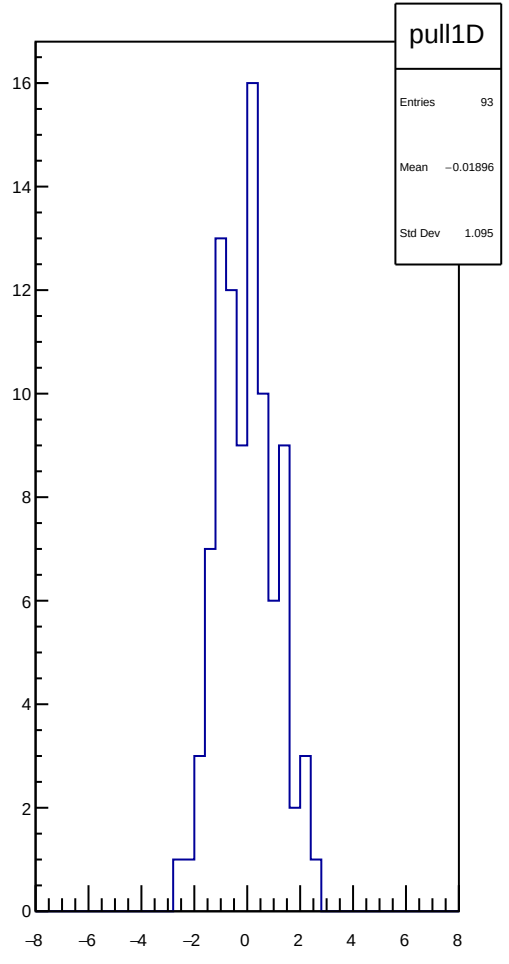

reg_asym_atr1_rms vs run
χ^2 / ndf 1.008e+04 / 92
p0 2779 ± 2.099
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

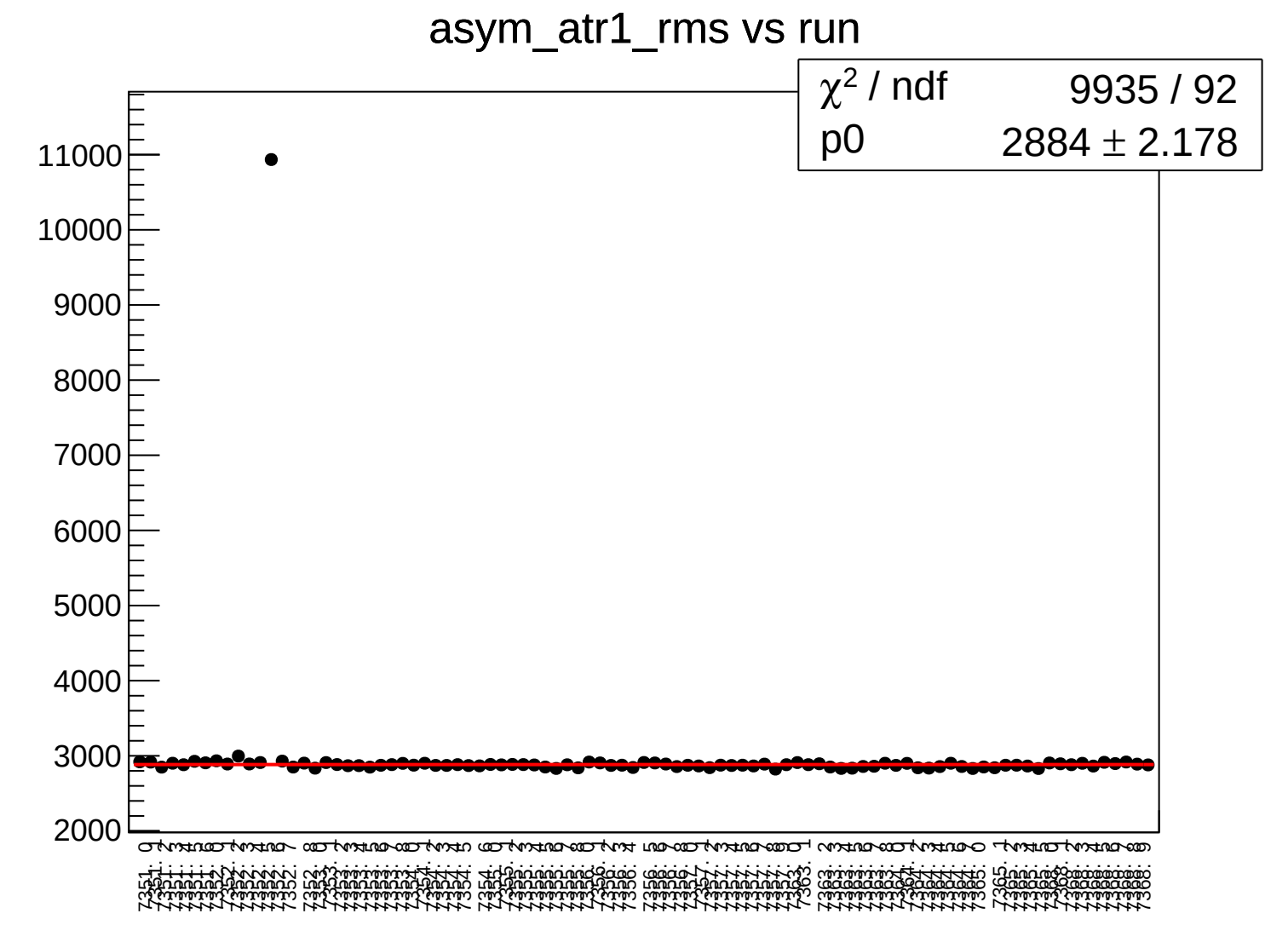

asym_atr1_correction_mean vs run
χ² / ndf 138.9 / 92
p0 1178 ± 807.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −78.64
Std Dev 120.8
3
2
1
0
−1
−2
−3

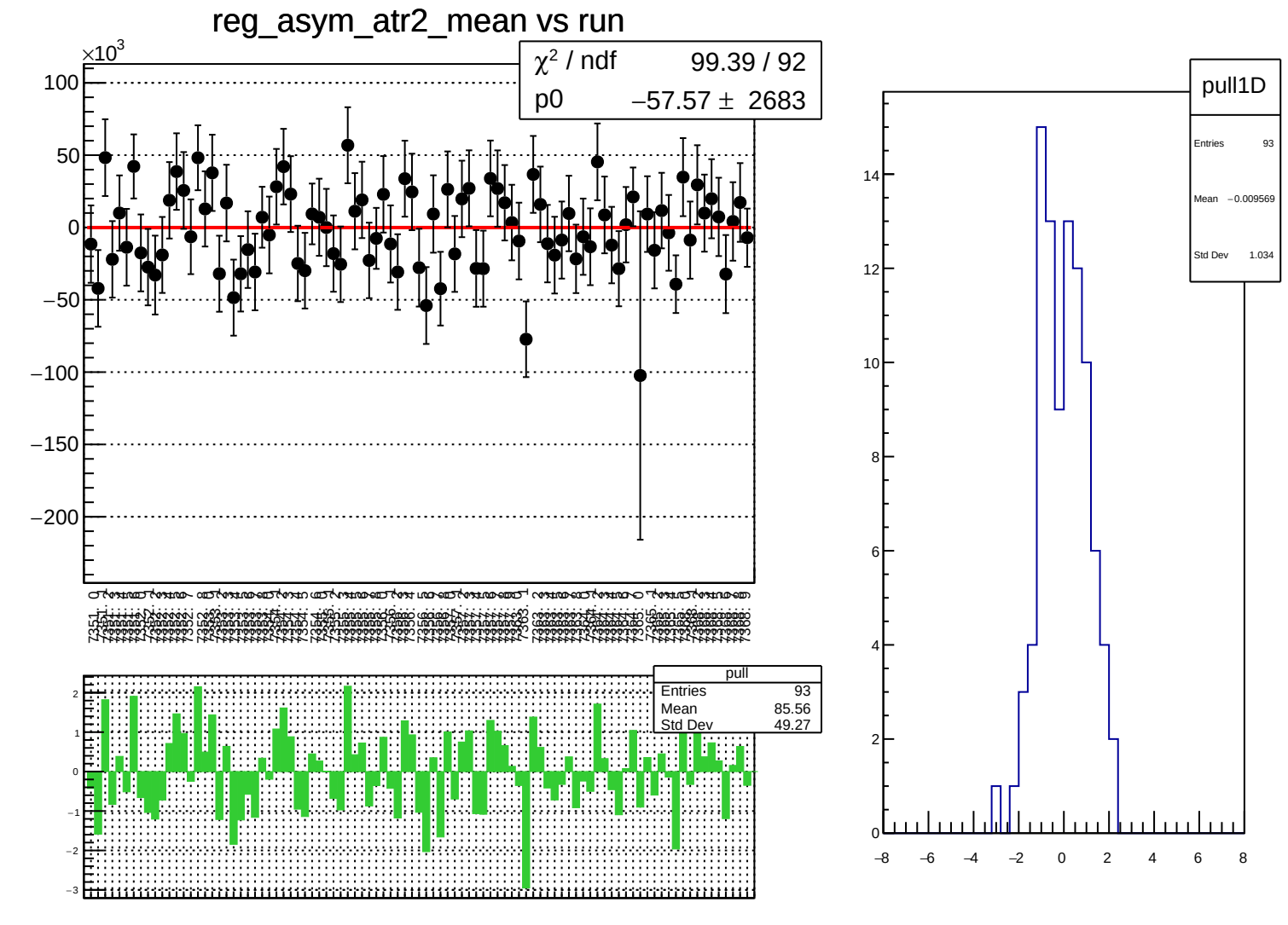

pull1D
Entries 93
Mean 0.02764
Std Dev 1.222
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

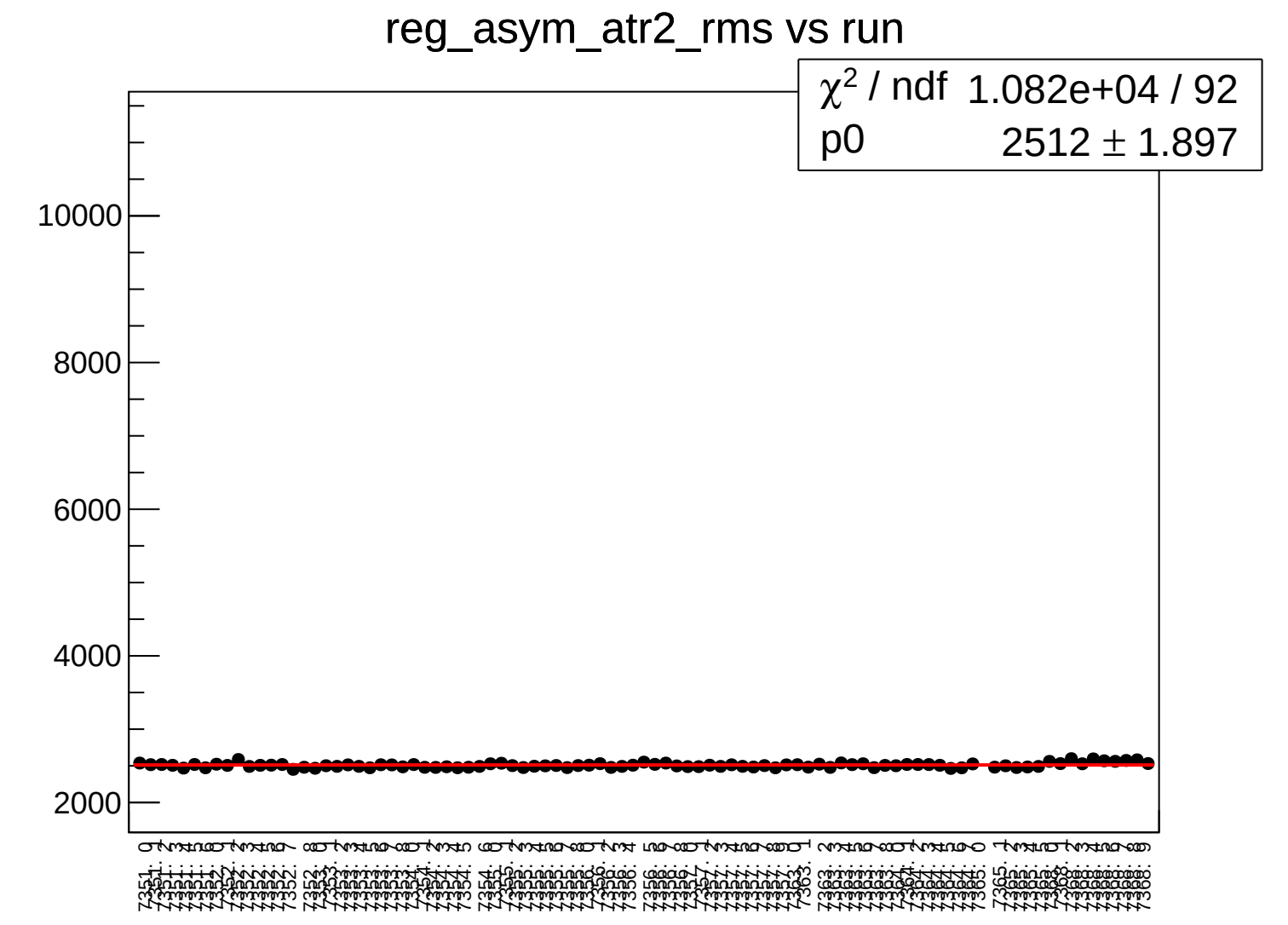

asym_atr1_correction_rms vs run
χ² / ndf 1.407e+04 / 92
p0 755.1 ± 0.5709
1100
1000
900
800
700

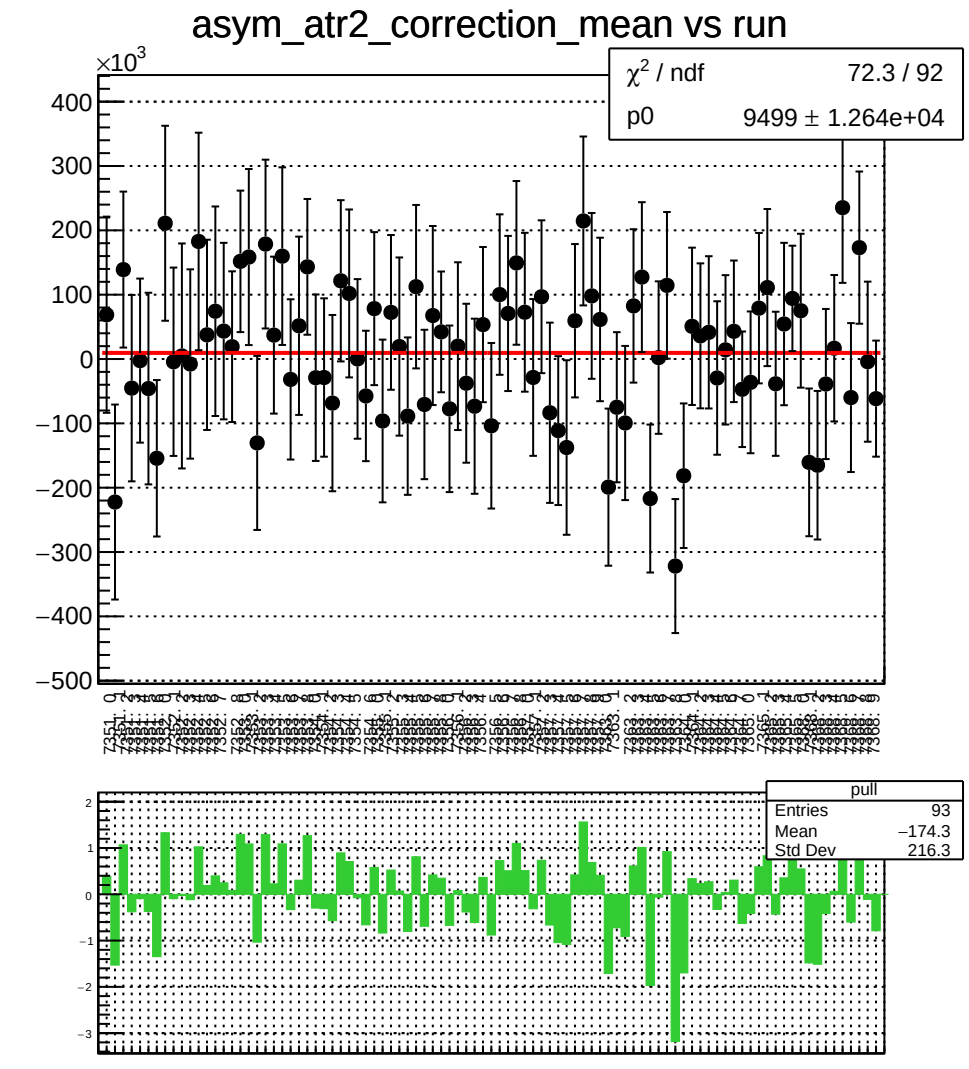

asym_atr1_mean vs run
×10^3
χ² / ndf 111.6 / 92
p0 −1246 ± 3080
100
50
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean −111.1
Std Dev 148.3
2
1
0
−1
−2
−3

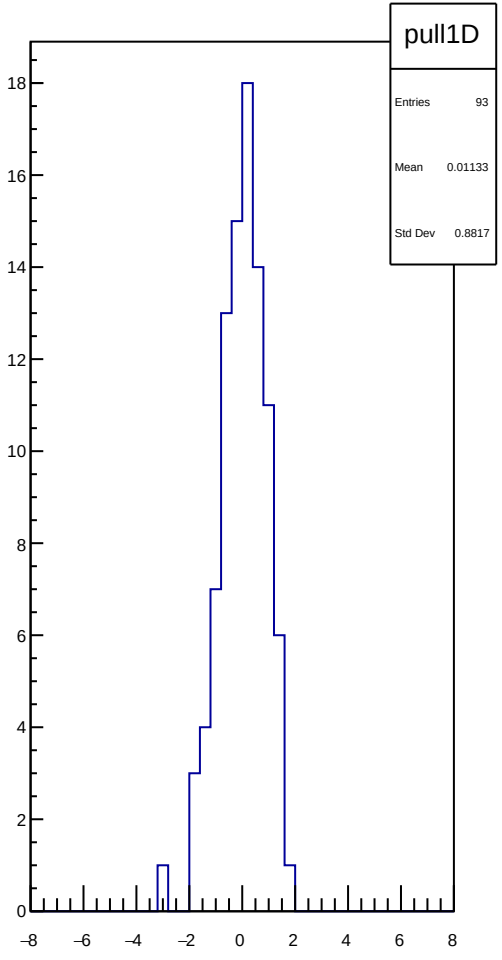

pull1D
Entries 93
Mean −0.01896
Std Dev 1.095
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

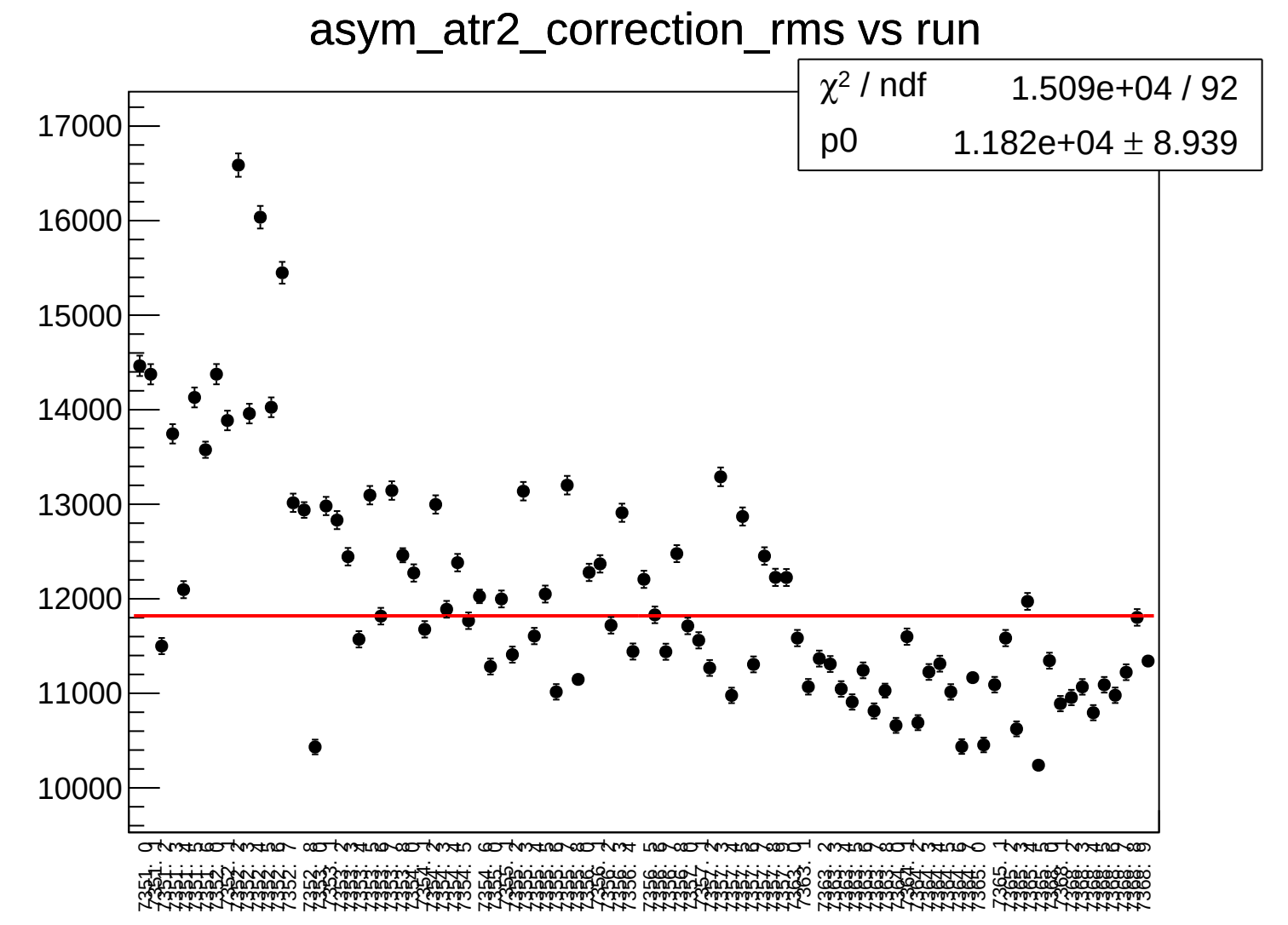

asym_atr1_rms vs run
χ^2 / ndf 9935 / 92
p0 2884 ± 2.178
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

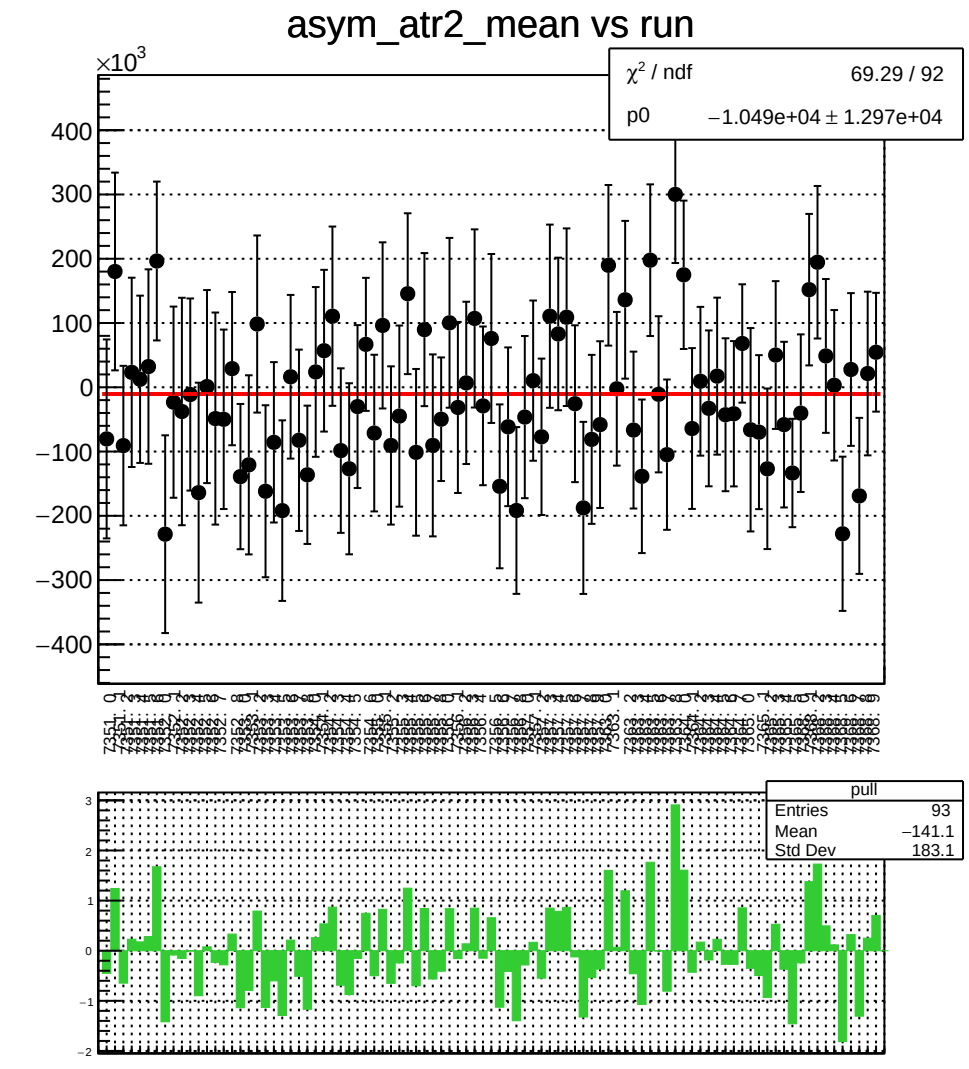

reg_asym_atr2_mean vs run
×10^3
χ² / ndf 99.39 / 92
p0 −57.57 ± 2683
pull
Entries 93
Mean 85.56
Std Dev 49.27
pull1D
Entries 93
Mean −0.009569
Std Dev 1.034

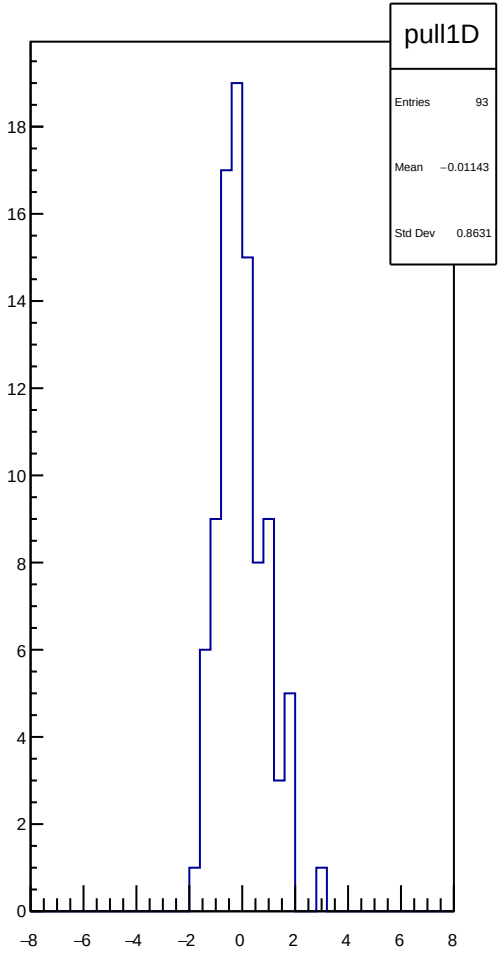

reg_asym_atr2_rms vs run
χ^2 / ndf 1.082e+04 / 92
p0 2512 ± 1.897
10000
8000
6000
4000
2000

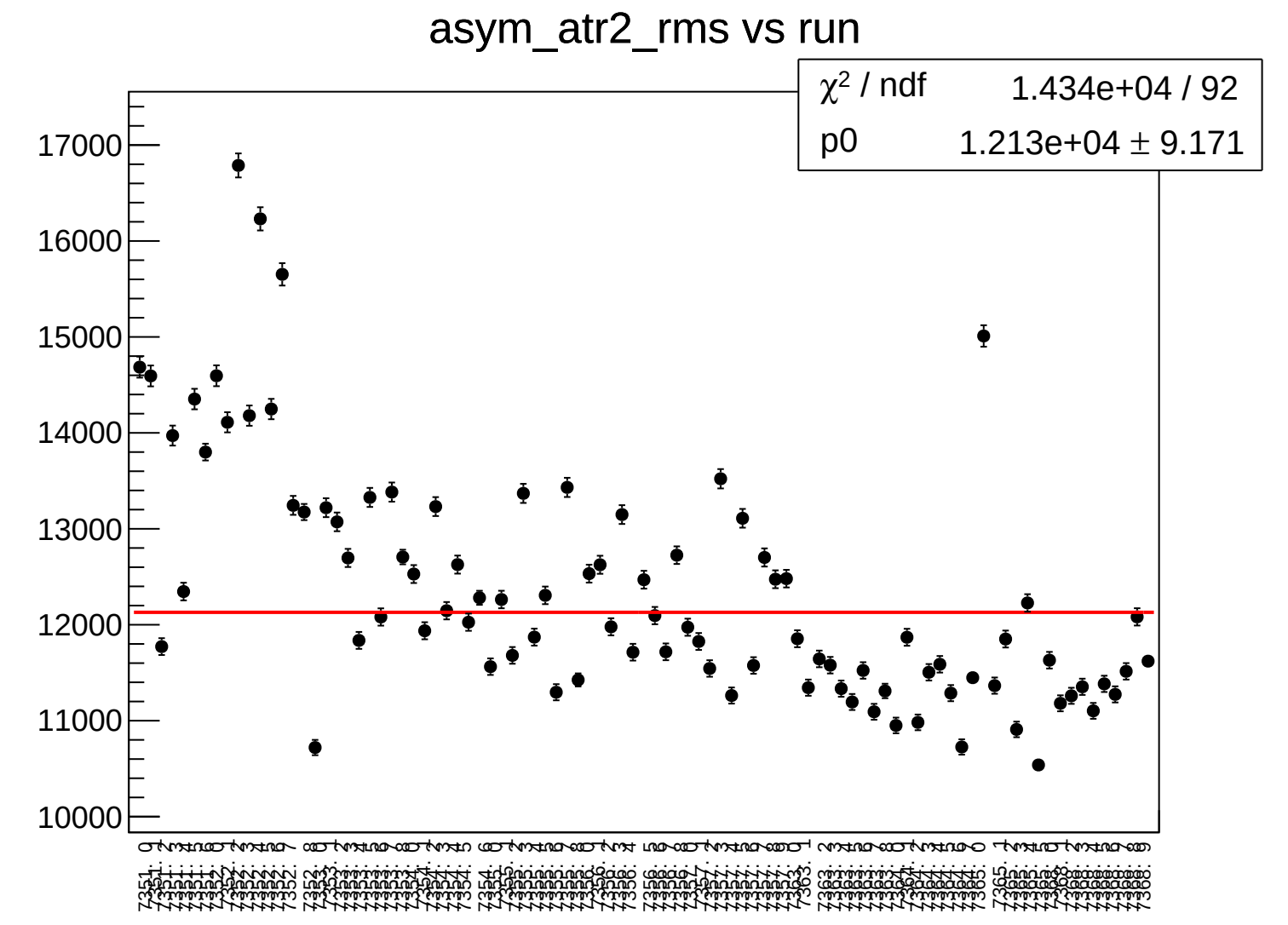

asym_atr2_correction_mean vs run
×10^3
χ² / ndf 72.3 / 92
p0 9499 ± 1.264e+04
pull
Entries 93
Mean −174.3
Std Dev 216.3

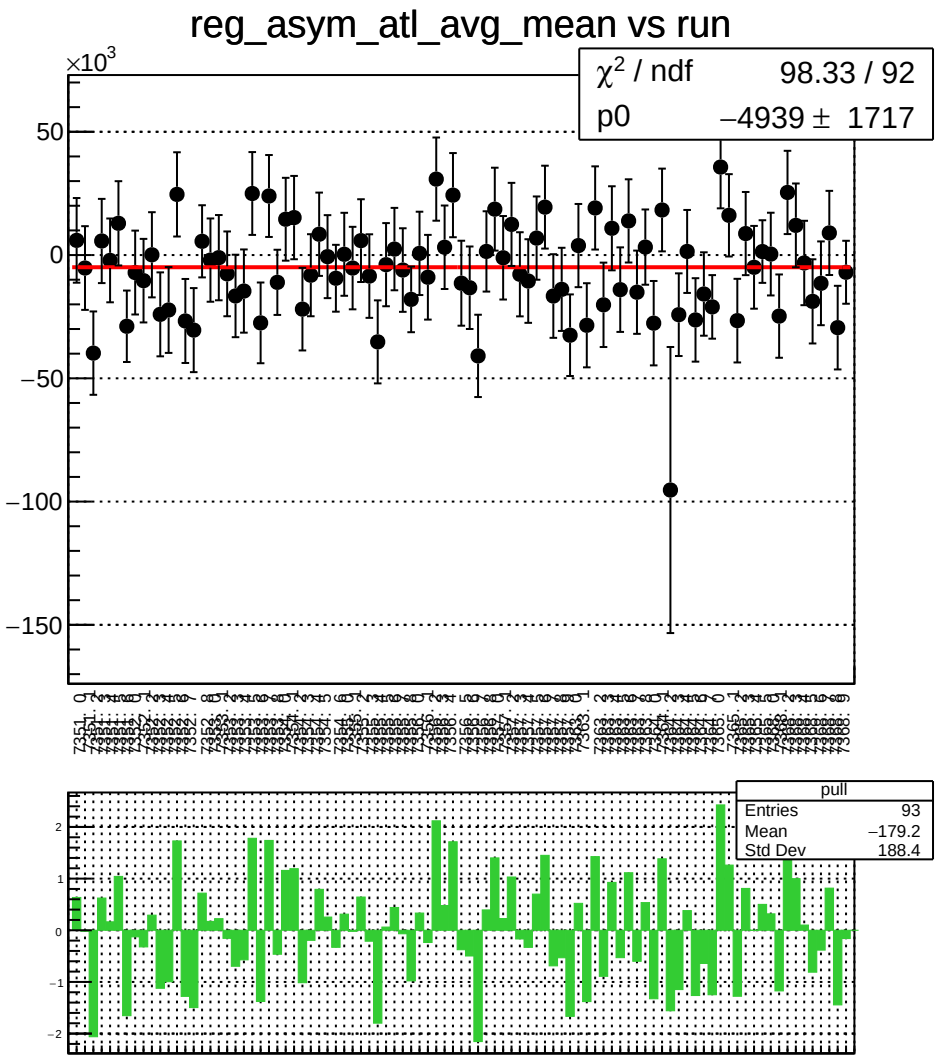

pull1D
Entries 93
Mean 0.01133
Std Dev 0.8817

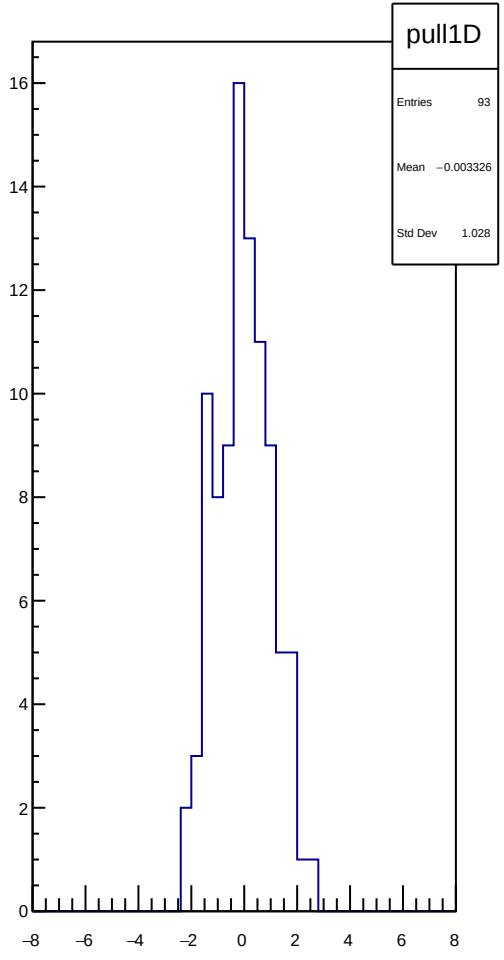

asym_atr2_correction_rms vs run
χ² / ndf 1.509e+04 / 92
p0 1.182e+04 ± 8.939
17000
16000
15000
14000
13000
12000
11000
10000

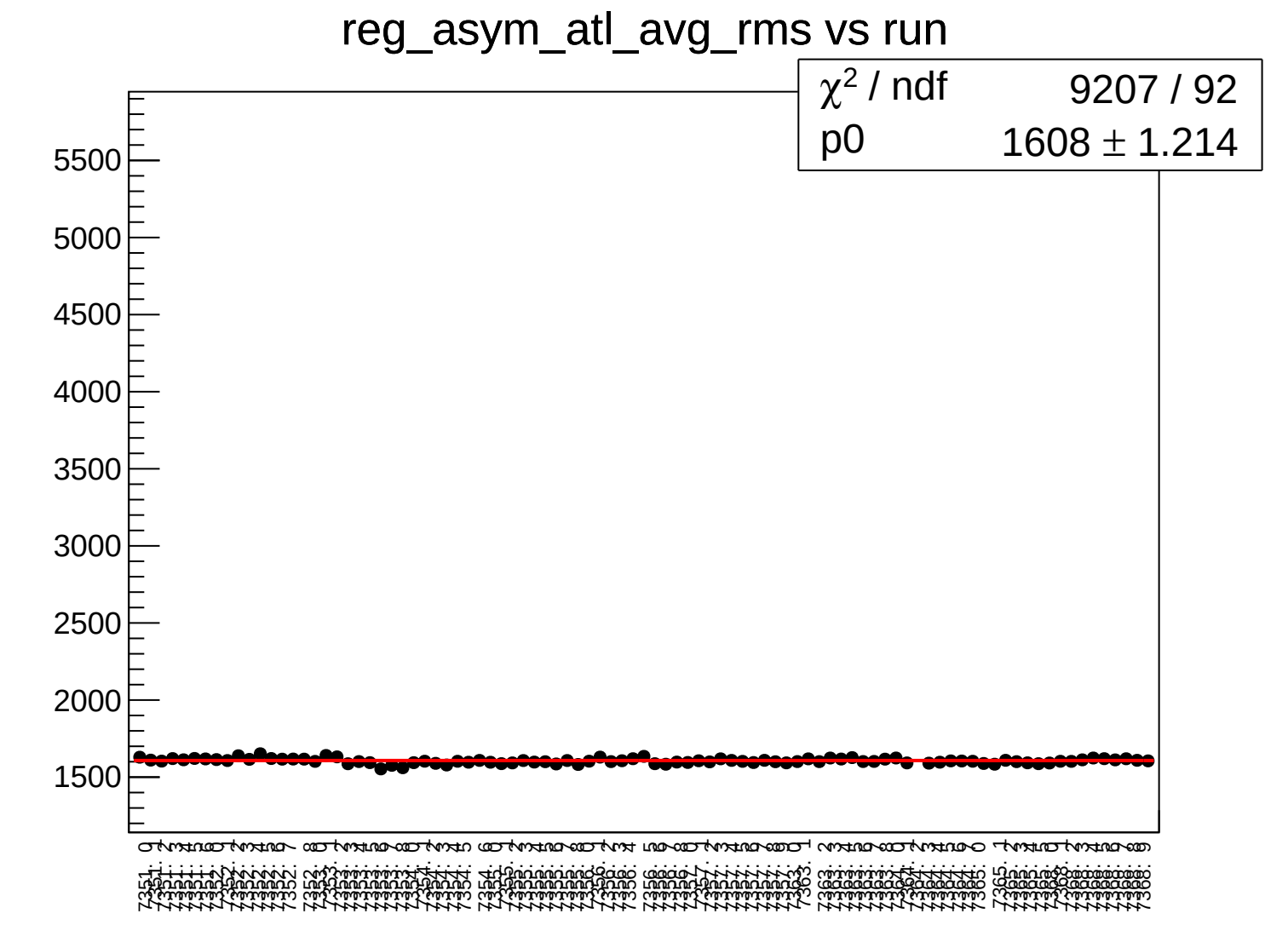

asym_atr2_mean vs run
×10^3
χ² / ndf 69.29 / 92
p0 −1.049e+04 ± 1.297e+04
pull
Entries 93
Mean −141.1
Std Dev 183.1

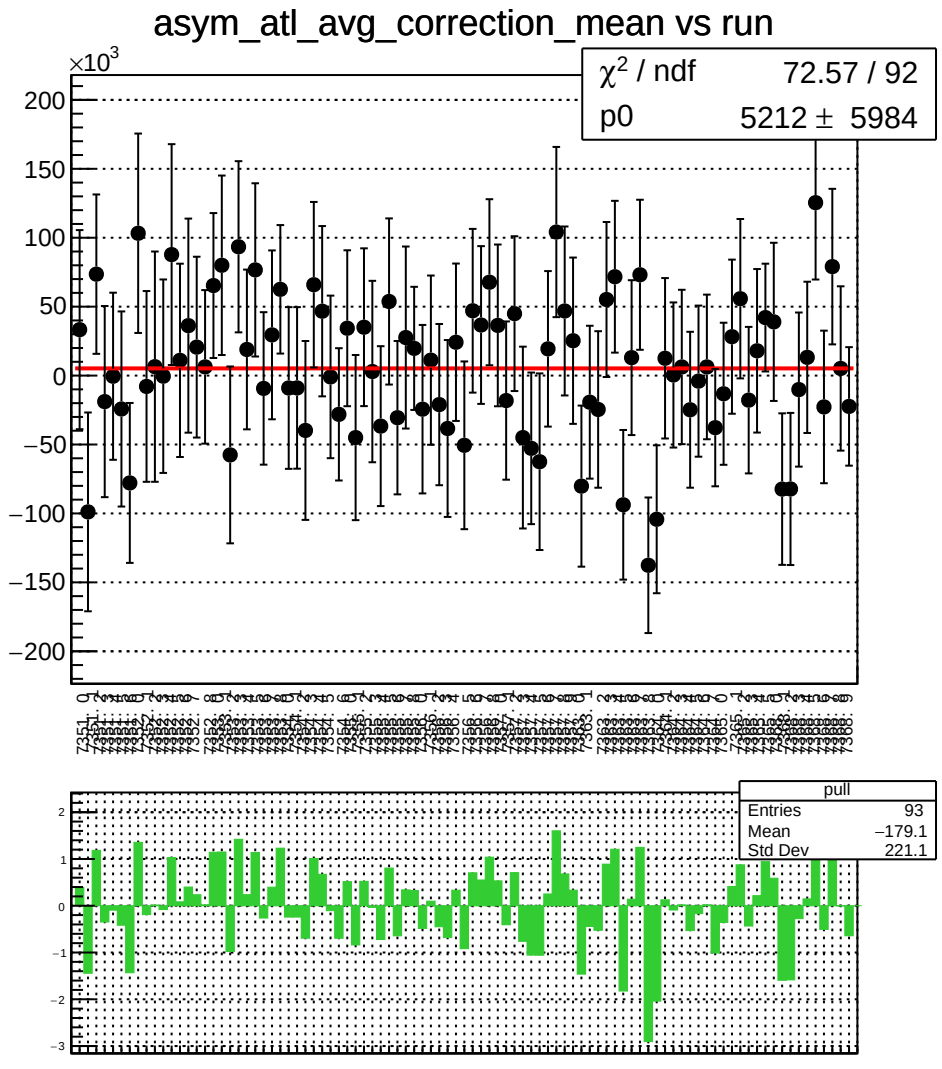

pull1D
Entries 93
Mean −0.01143
Std Dev 0.8631

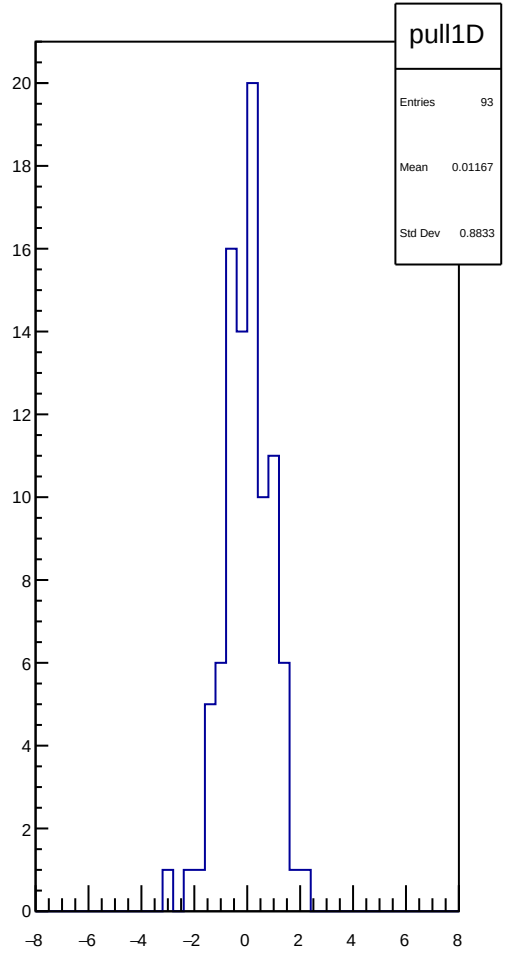

asym_atr2_rms vs run
χ² / ndf 1.434e+04 / 92
p0 1.213e+04 ± 9.171
17000
16000
15000
14000
13000
12000
11000
10000

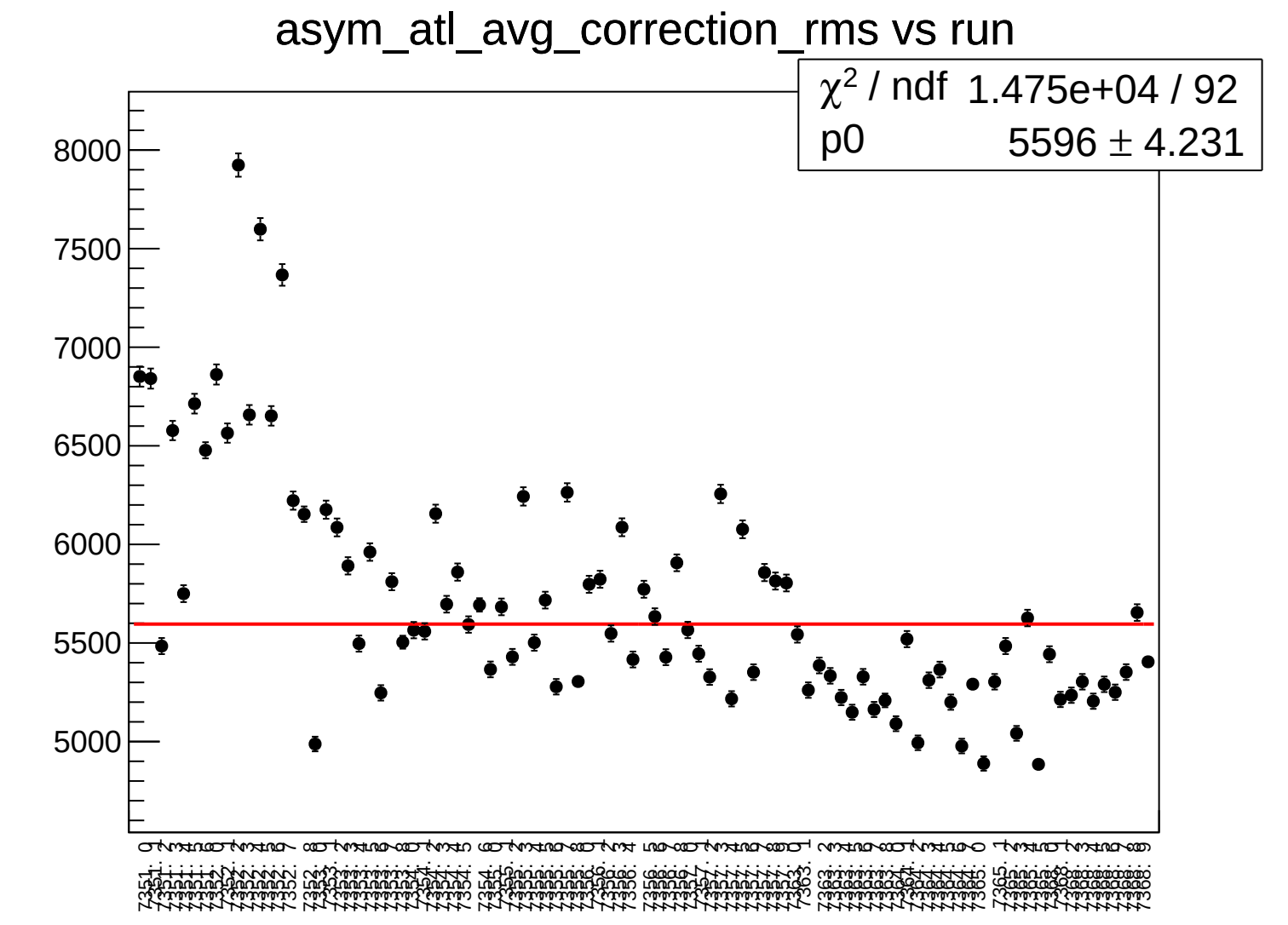

reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 98.33 / 92
p0 −4939 ± 1717
50
0
−50
−100
−150
pull
Entries 93
Mean −179.2
Std Dev 188.4
2
1
0
−1
−2

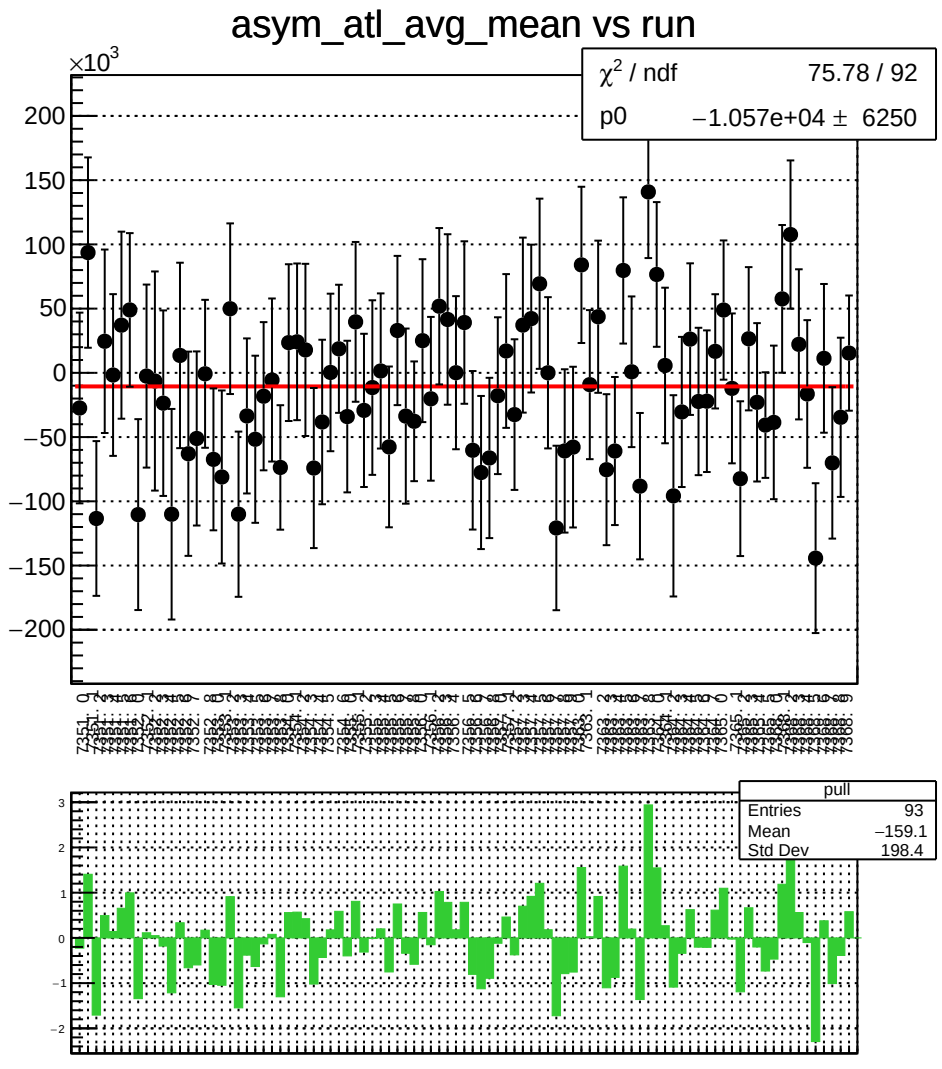

pull1D
Entries 93
Mean −0.003326
Std Dev 1.028
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

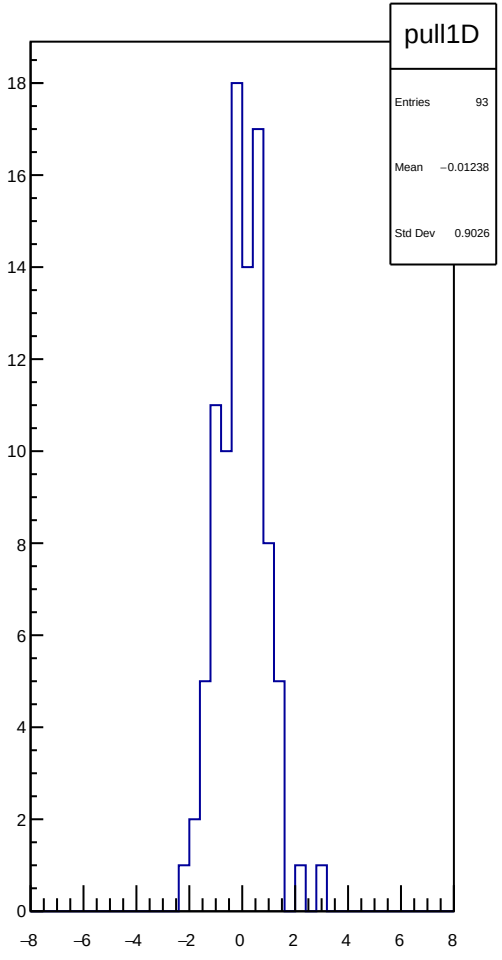

reg_asym_atl_avg_rms vs run
χ^2 / ndf 9207 / 92
p0 1608 ± 1.214
5500
5000
4500
4000
3500
3000
2500
2000
1500

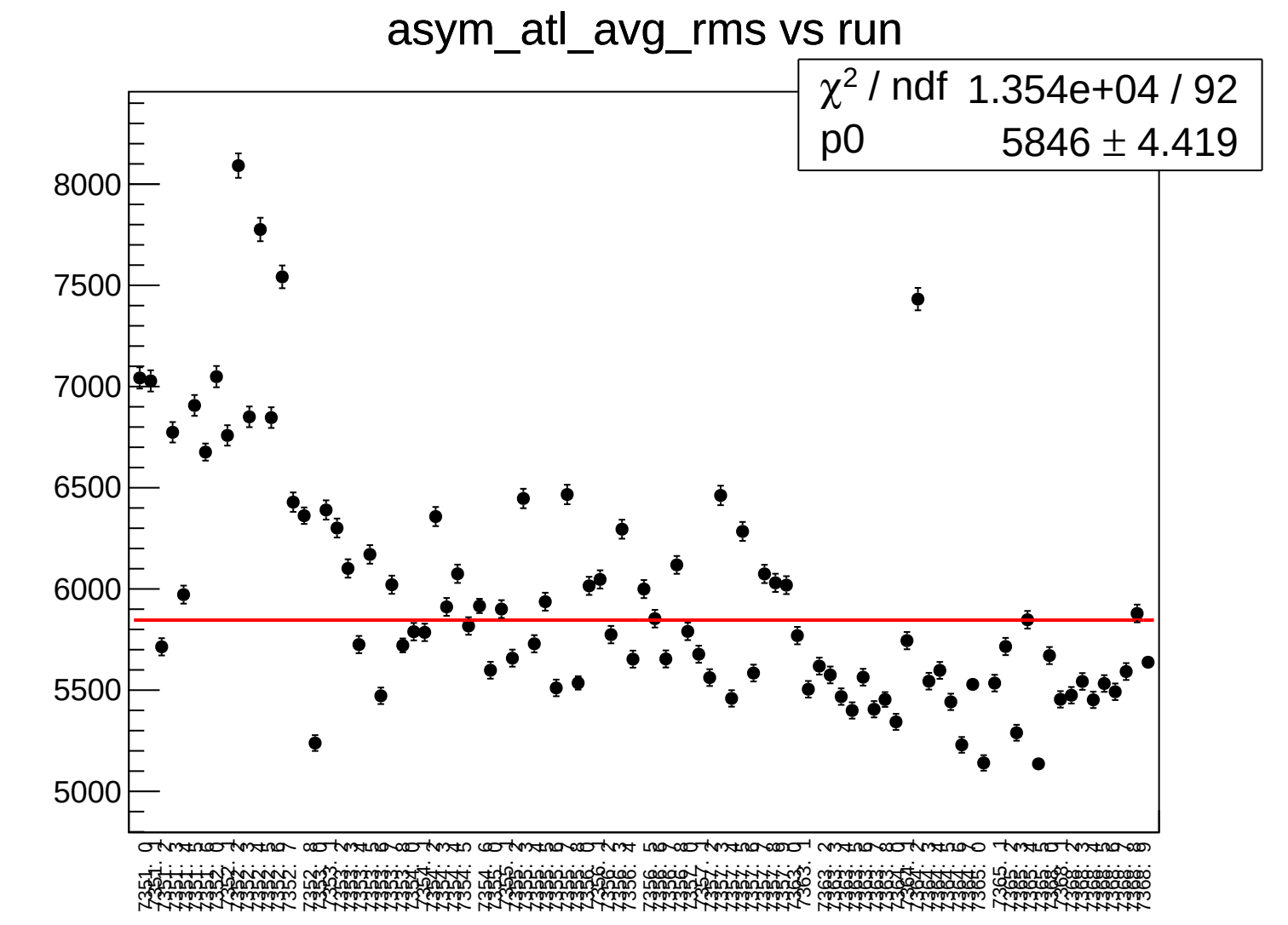

asym_atl_avg_correction_mean vs run
×10^3
χ² / ndf 72.57 / 92
p0 5212 ± 5984
pull
Entries 93
Mean −179.1
Std Dev 221.1

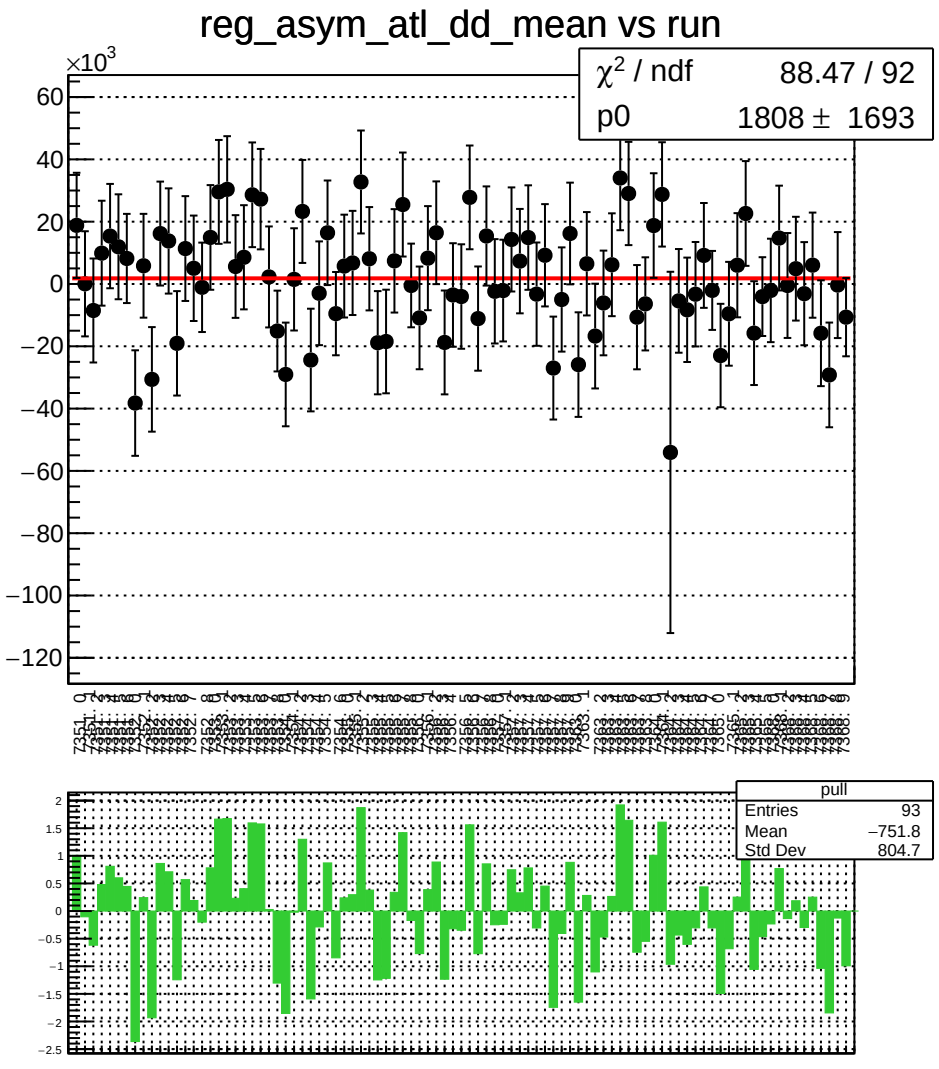

pull1D
Entries 93
Mean 0.01167
Std Dev 0.8833

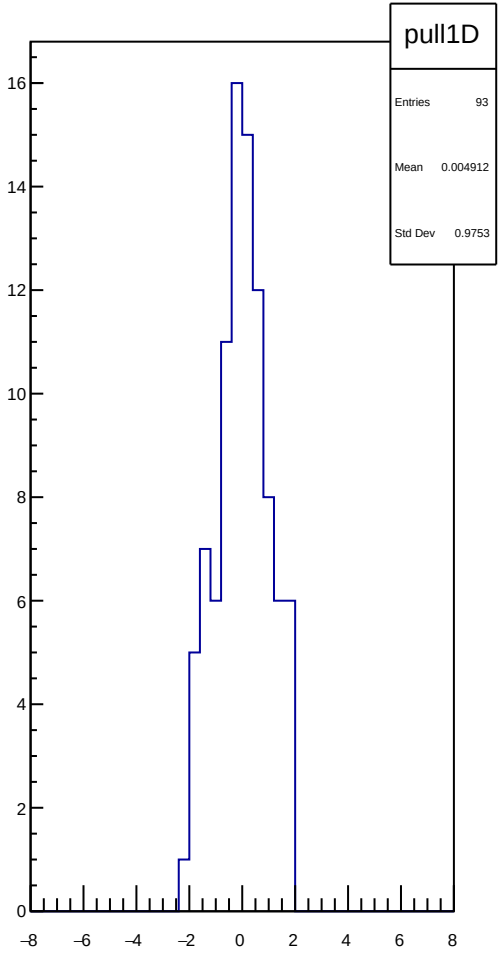

asym_atl_avg_correction_rms vs run
χ² / ndf 1.475e+04 / 92
p0 5596 ± 4.231
8000
7500
7000
6500
6000
5500
5000

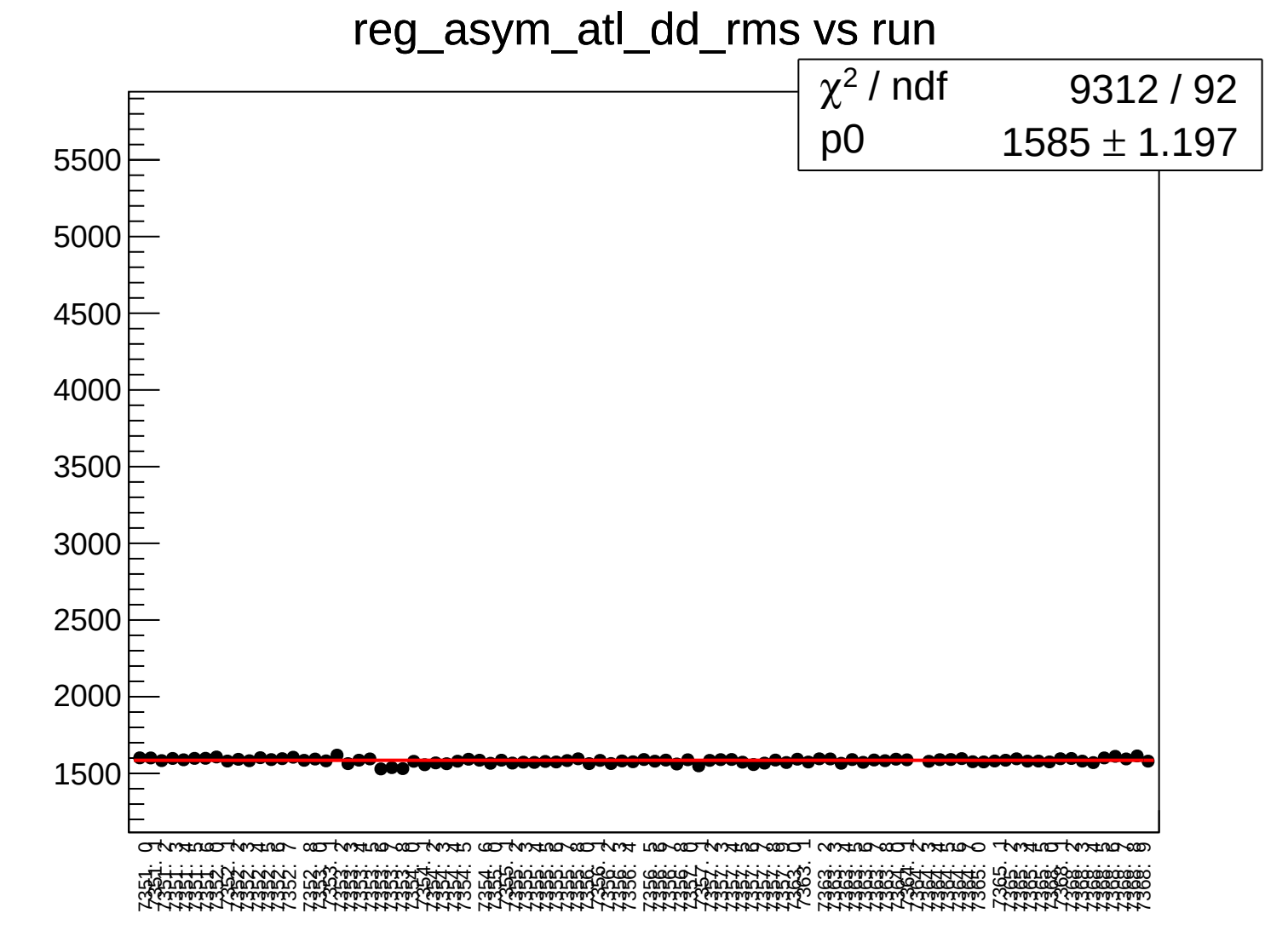

asym_atl_avg_mean vs run
×10^3
χ² / ndf 75.78 / 92
p0 −1.057e+04 ± 6250
pull
Entries 93
Mean −159.1
Std Dev 198.4

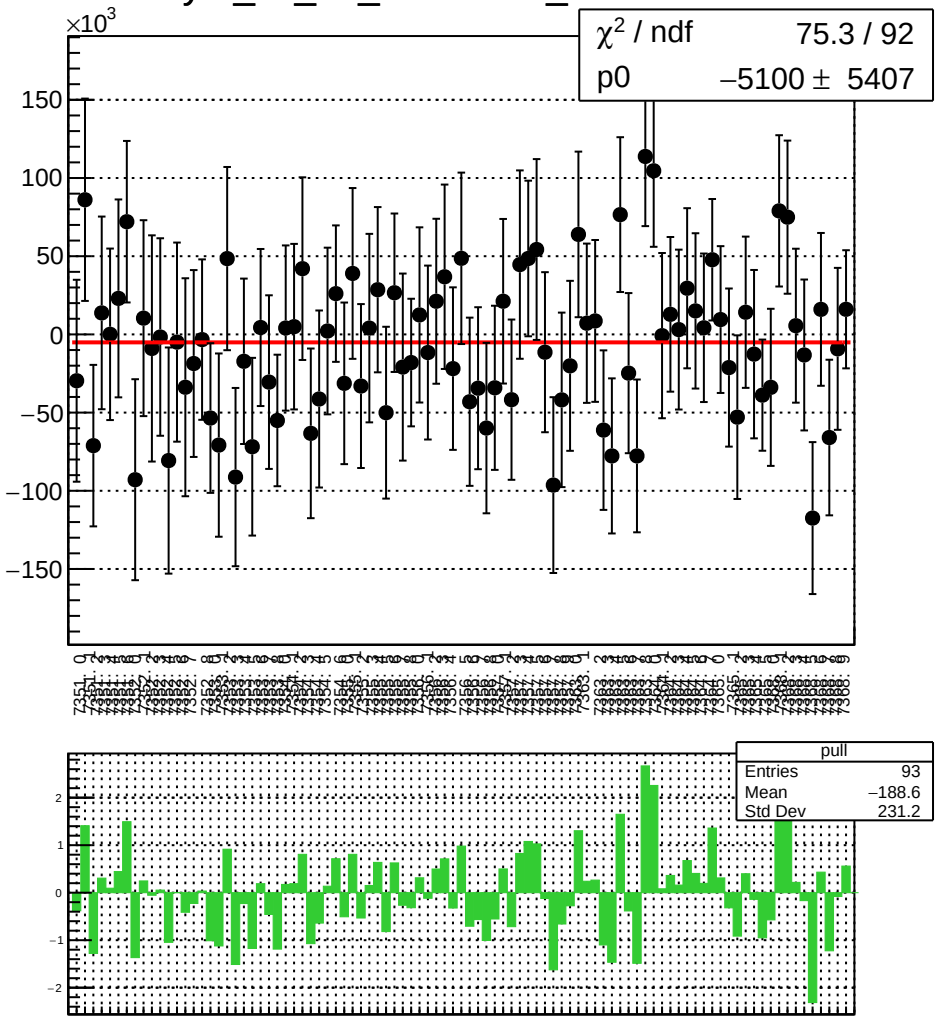

pull1D
Entries 93
Mean −0.01238
Std Dev 0.9026

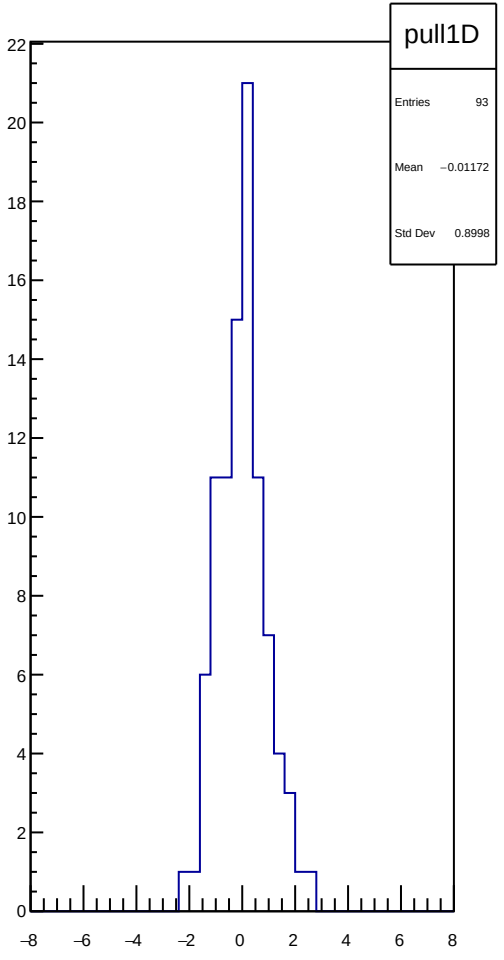

asym_atl_avg_rms vs run
χ² / ndf 1.354e+04 / 92
p0 5846 ± 4.419
8000
7500
7000
6500
6000
5500
5000

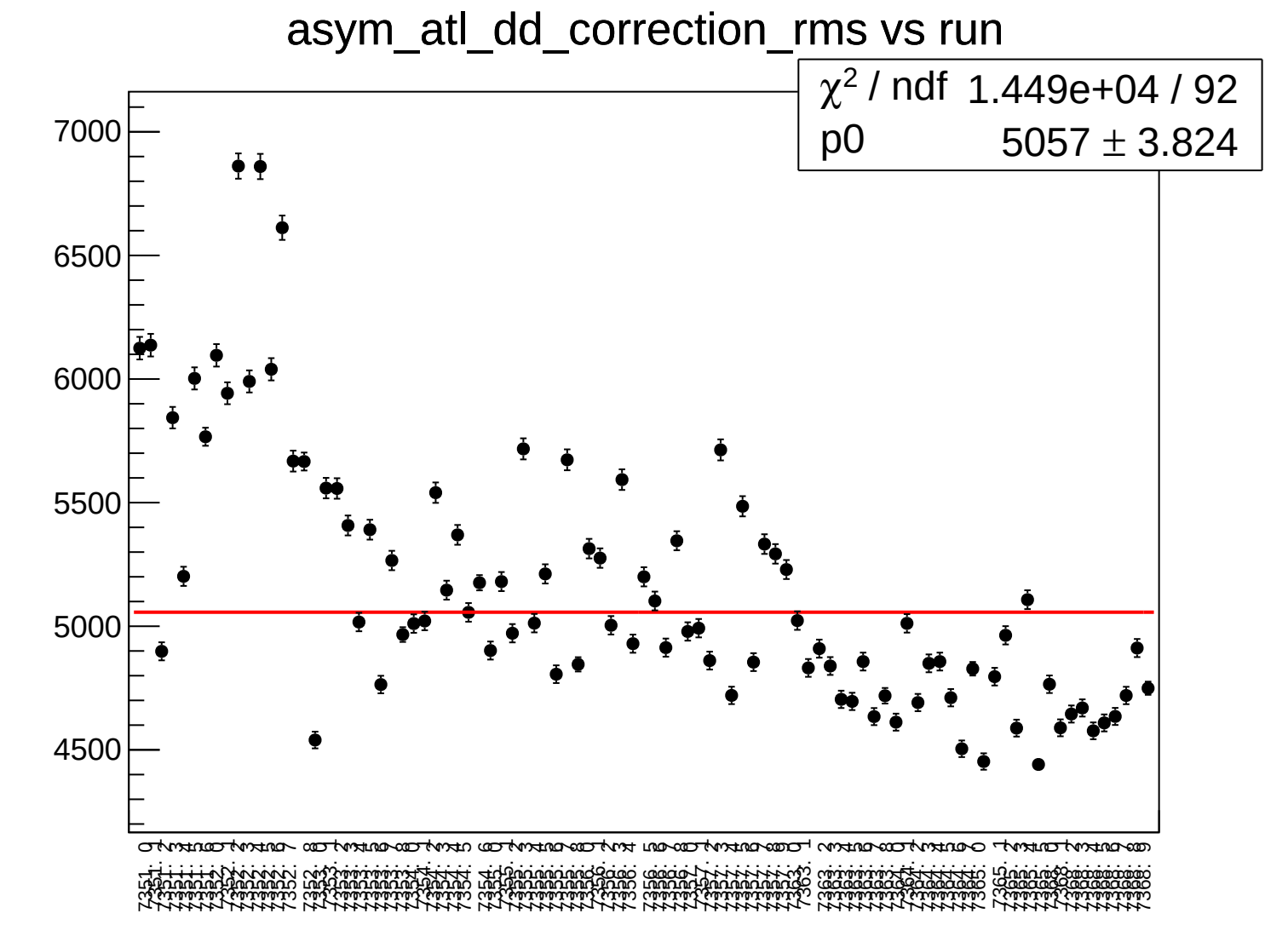

reg_asym_atl_dd_mean vs run
×10^3
χ^2 / ndf 88.47 / 92
p0 1808 ± 1693
pull
Entries 93
Mean −751.8
Std Dev 804.7

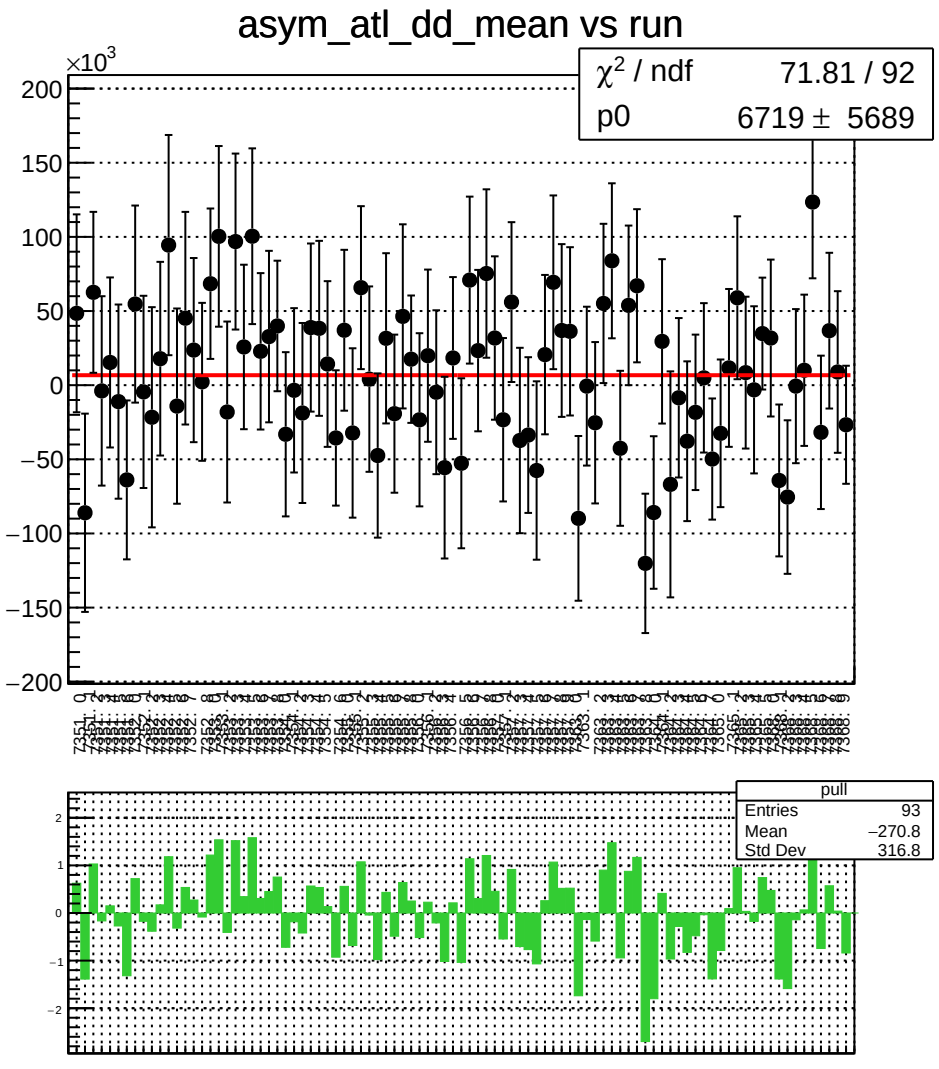

pull1D
Entries 93
Mean 0.004912
Std Dev 0.9753

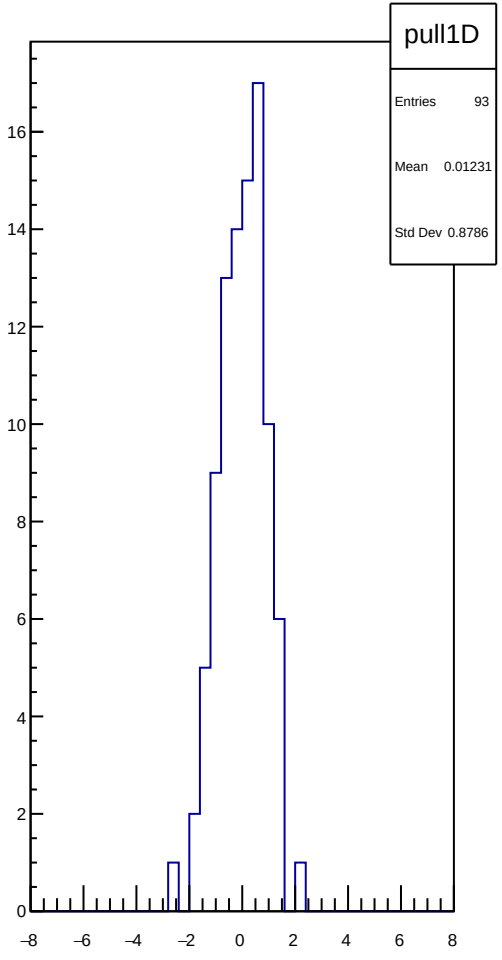

reg_asym_atl_dd_rms vs run
χ^2 / ndf 9312 / 92
p0 1585 ± 1.197
5500
5000
4500
4000
3500
3000
2500
2000
1500

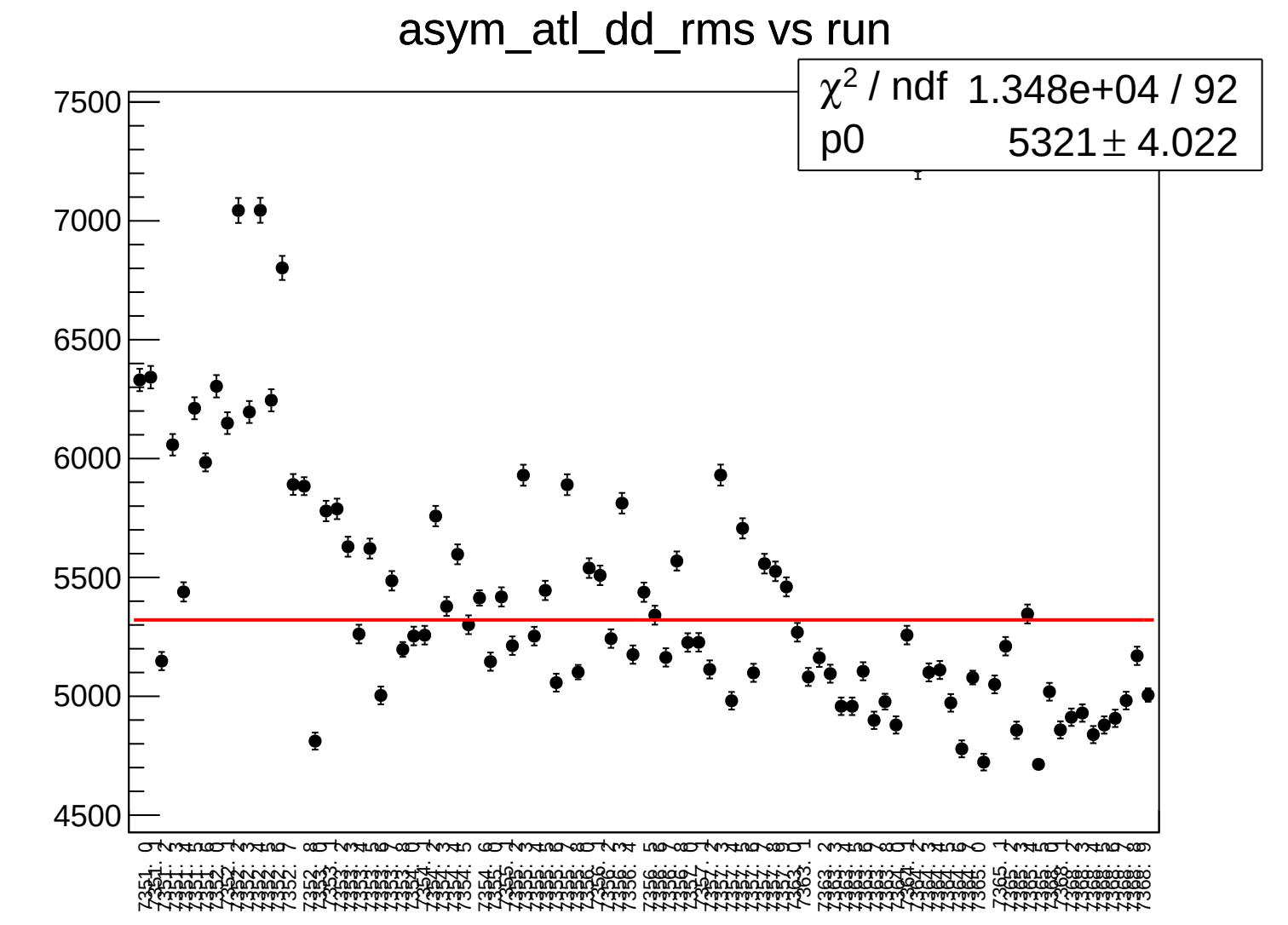

asym_atl_dd_correction_mean vs run
×10^3
χ² / ndf 75.3 / 92
p0 −5100 ± 5407
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −188.6
Std Dev 231.2
2
1
0
−1
−2

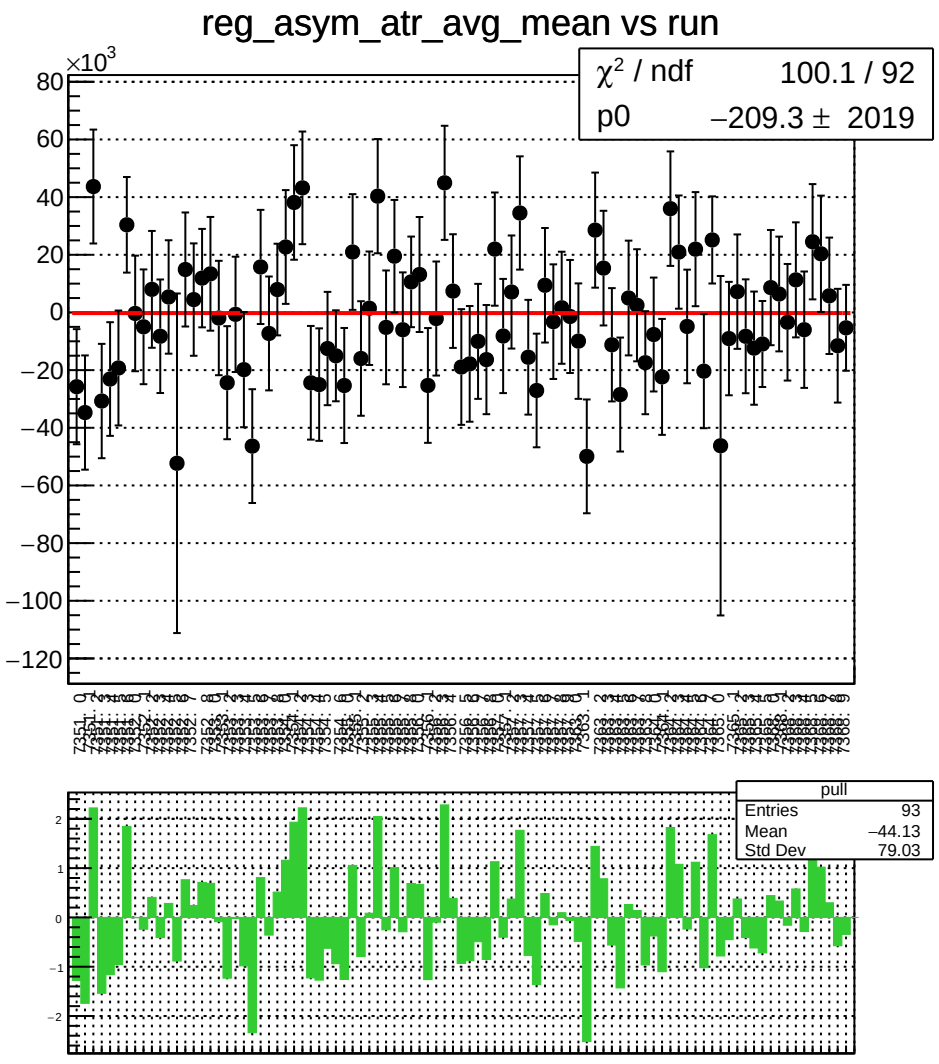

pull1D
Entries 93
Mean −0.01172
Std Dev 0.8998
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

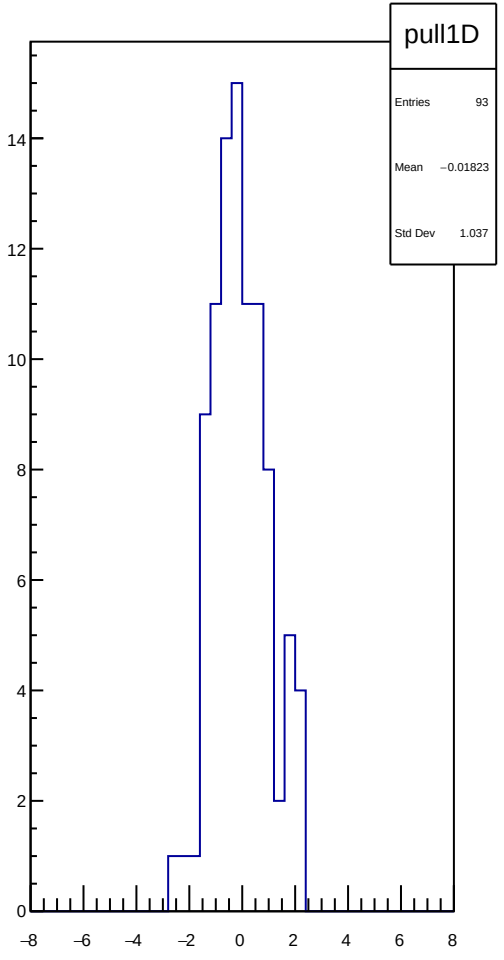

asym_atl_dd_correction_rms vs run
χ² / ndf 1.449e+04 / 92
p0 5057 ± 3.824
7000
6500
6000
5500
5000
4500

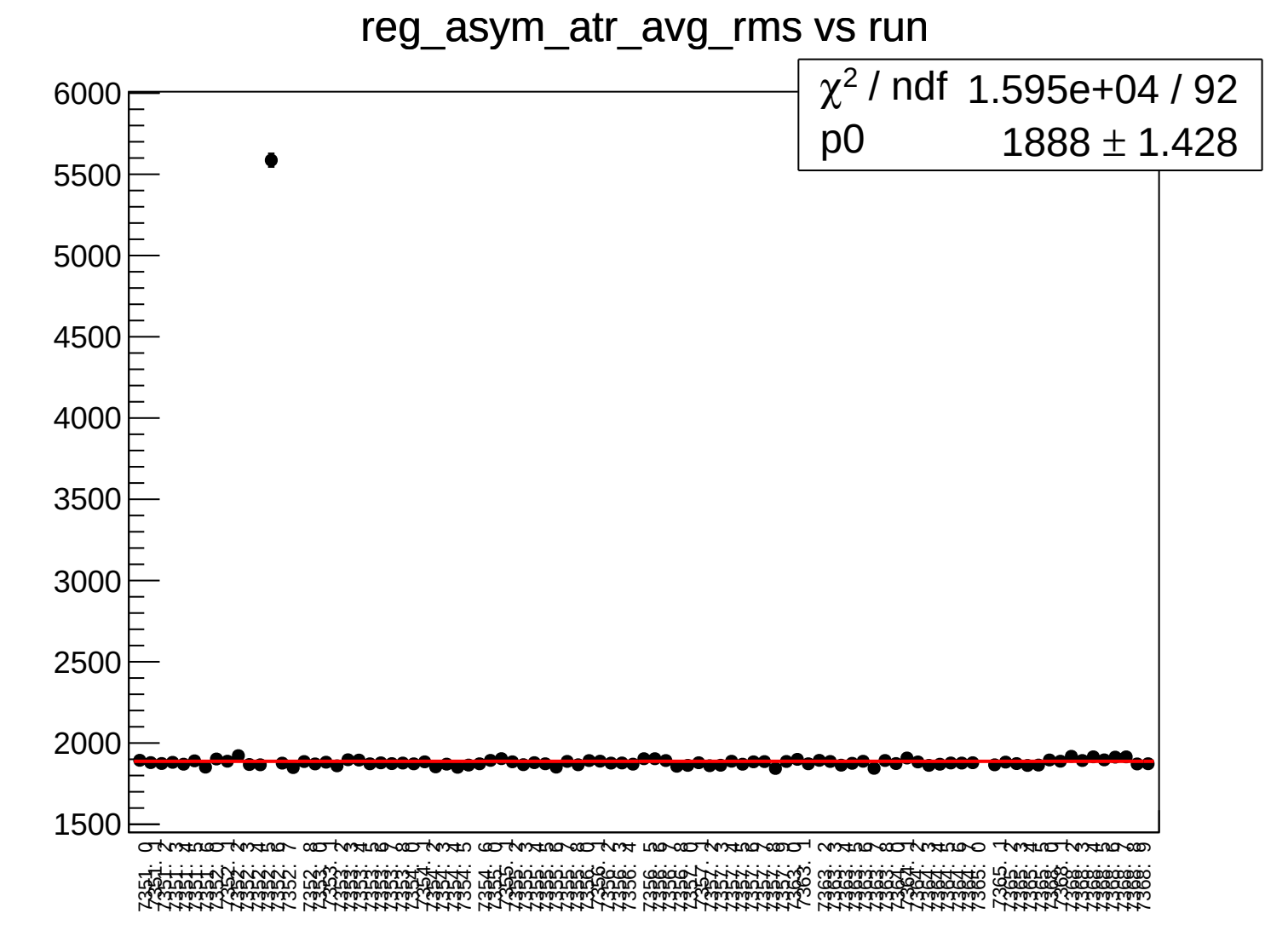

asym_atl_dd_mean vs run
×10^3
χ² / ndf 71.81 / 92
p0 6719 ± 5689
pull
Entries 93
Mean −270.8
Std Dev 316.8

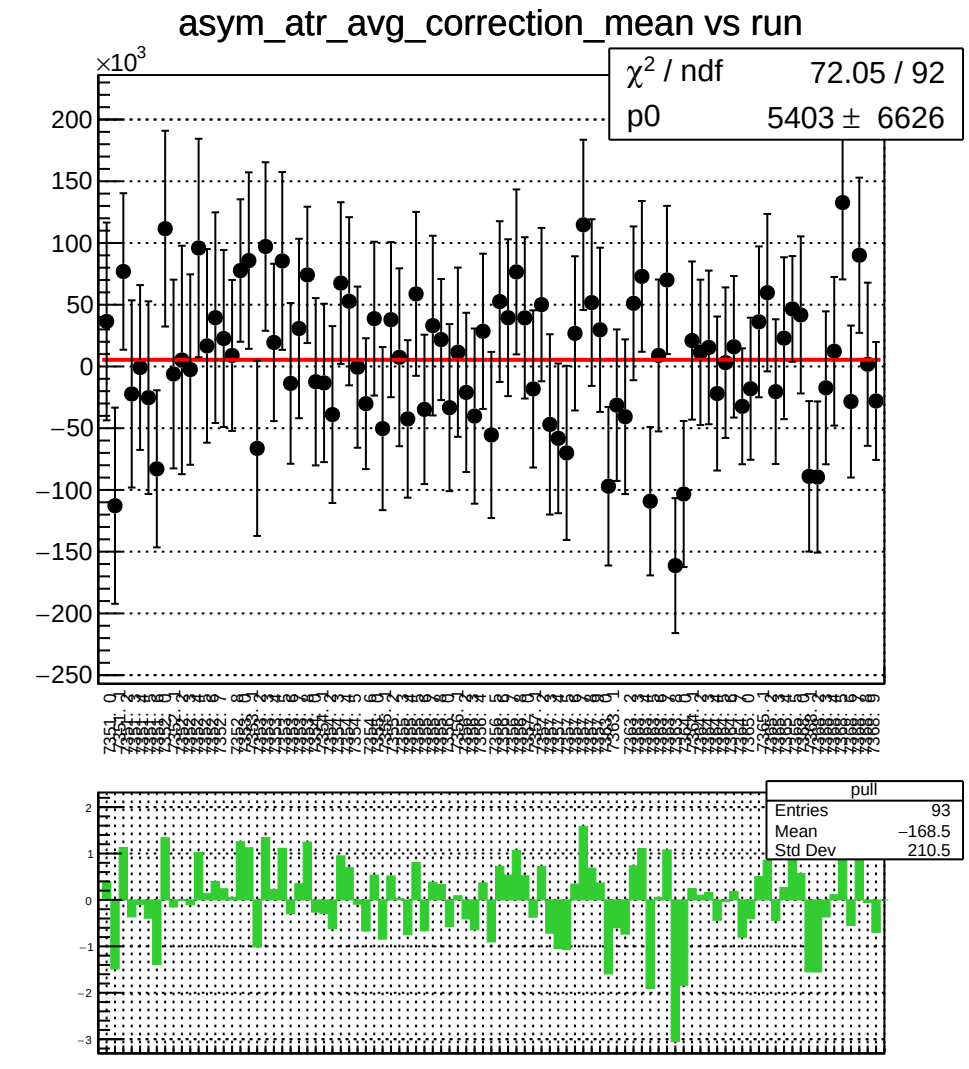

pull1D
Entries 93
Mean 0.01231
Std Dev 0.8786

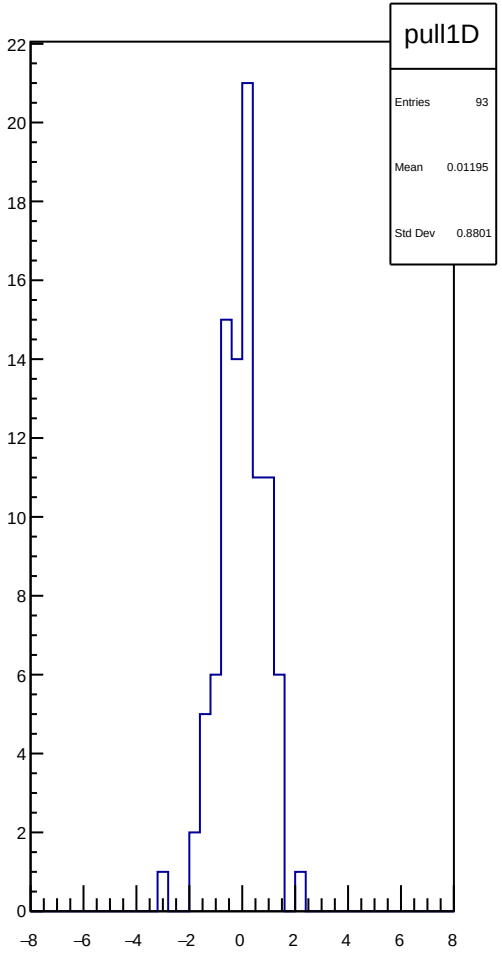

asym_atl_dd_rms vs run
χ² / ndf 1.348e+04 / 92
p0 5321 ± 4.022
7500
7000
6500
6000
5500
5000
4500

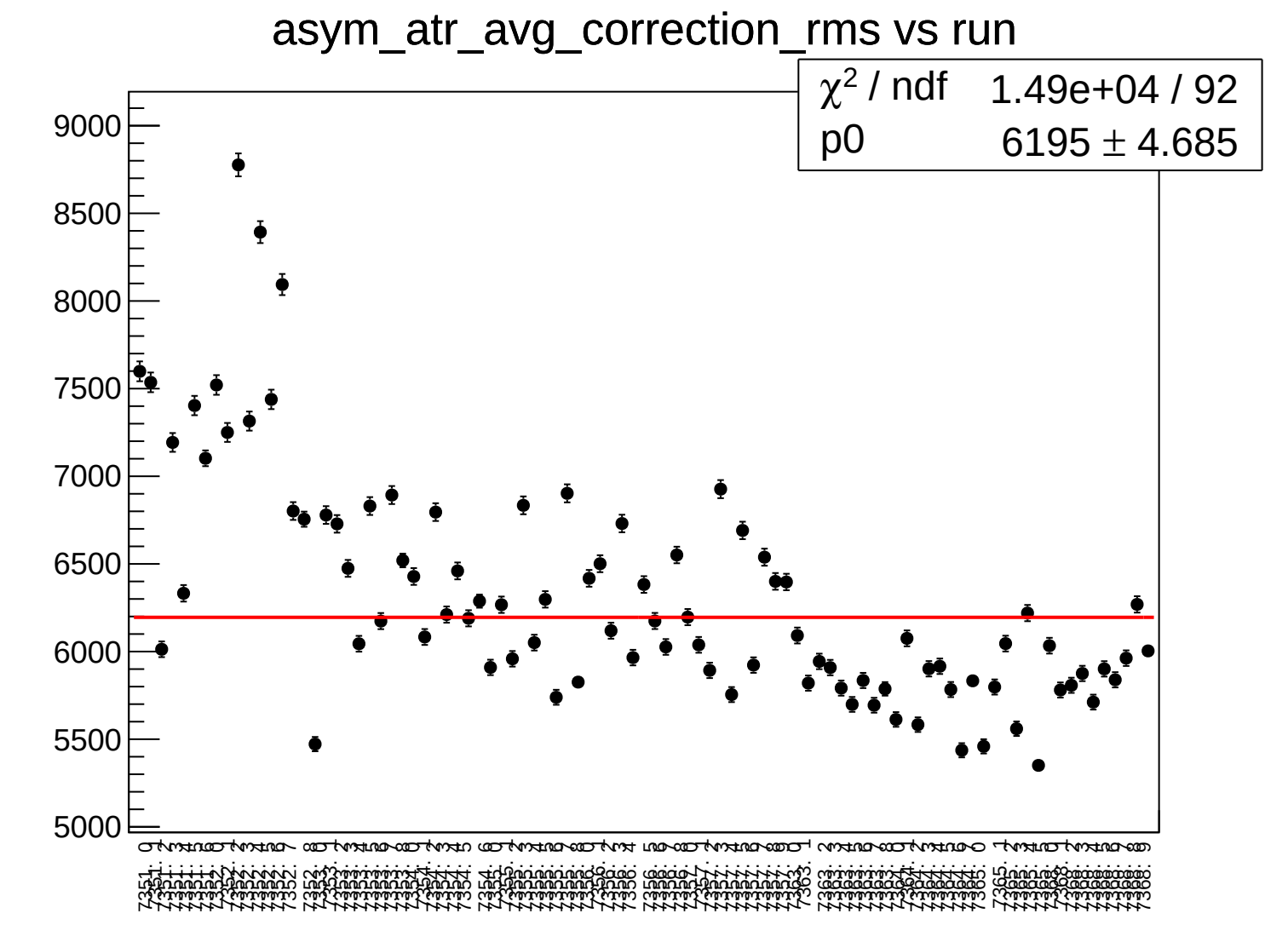

reg_asym_atr_avg_mean vs run
×10^3
χ² / ndf 100.1 / 92
p0 −209.3 ± 2019
pull
Entries 93
Mean −44.13
Std Dev 79.03

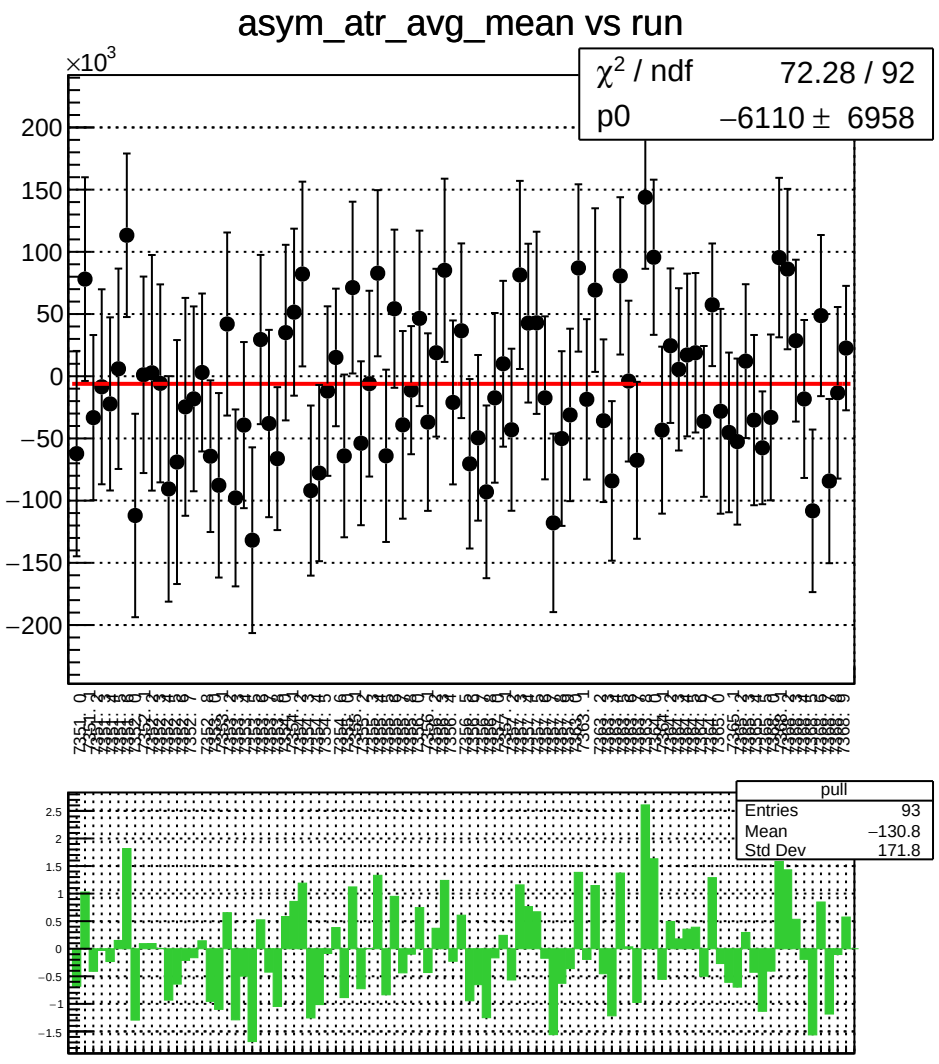

pull1D
Entries 93
Mean −0.01823
Std Dev 1.037

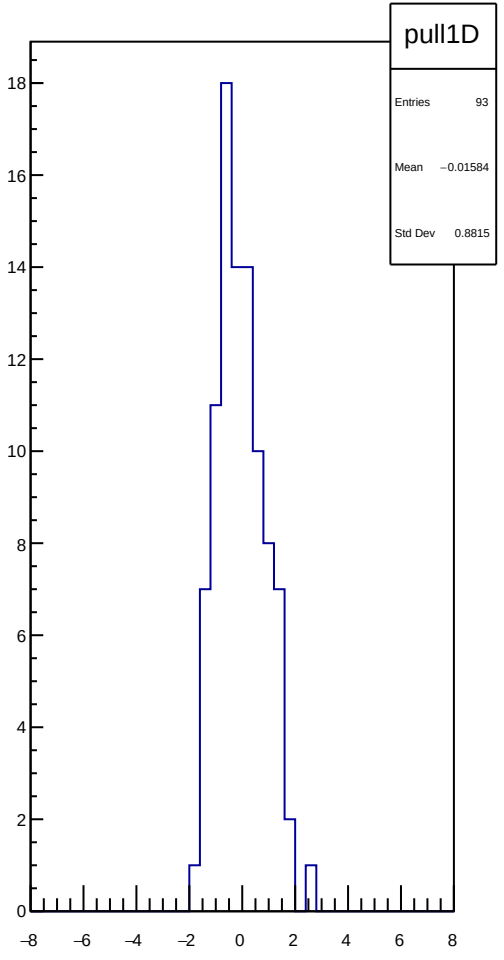

reg_asym_atr_avg_rms vs run
χ² / ndf 1.595e+04 / 92
p0 1888 ± 1.428
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

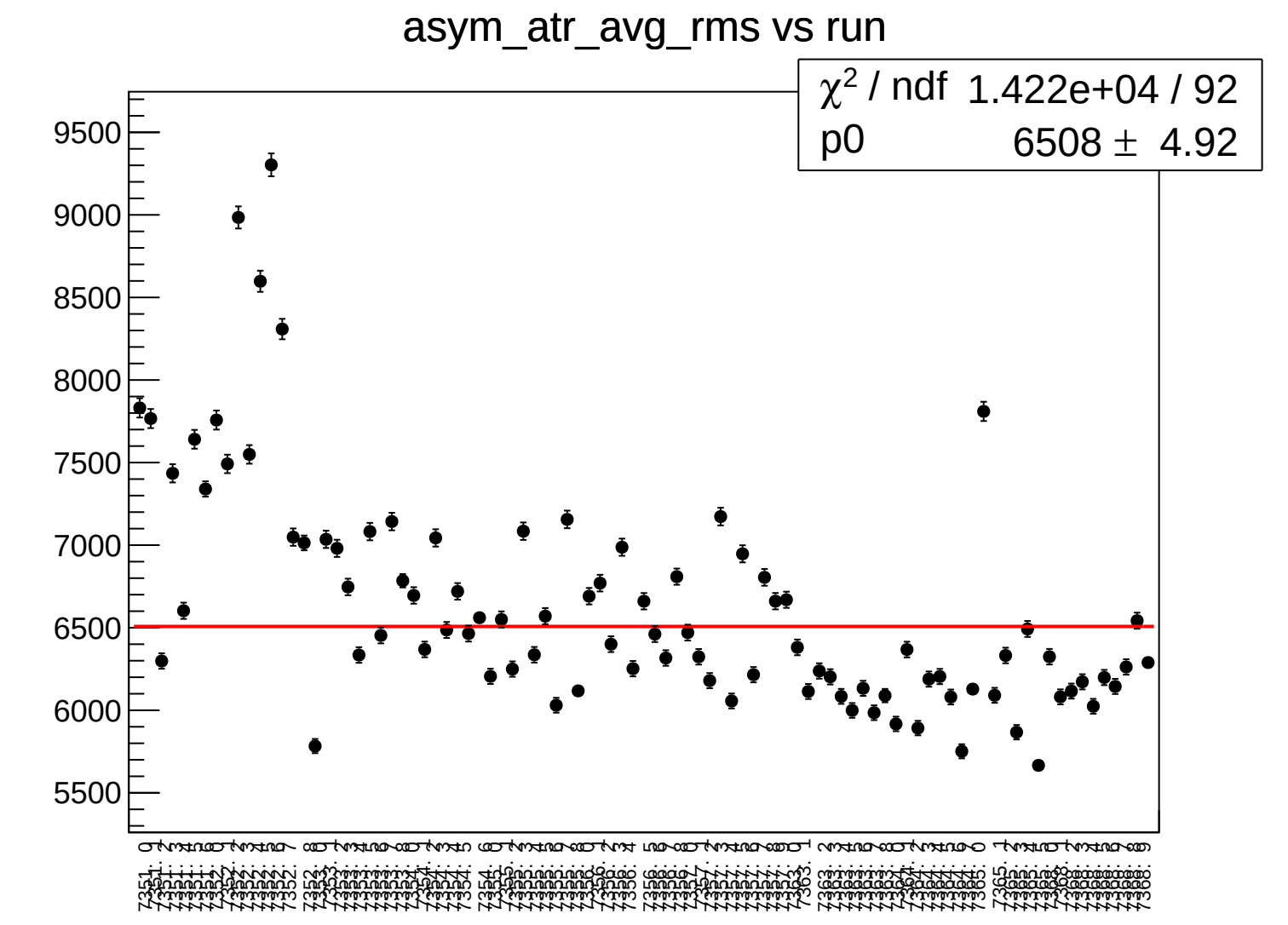

asym_atr_avg_correction_mean vs run
×10^3
χ^2 / ndf 72.05 / 92
p0 5403 ± 6626
pull
Entries 93
Mean −168.5
Std Dev 210.5

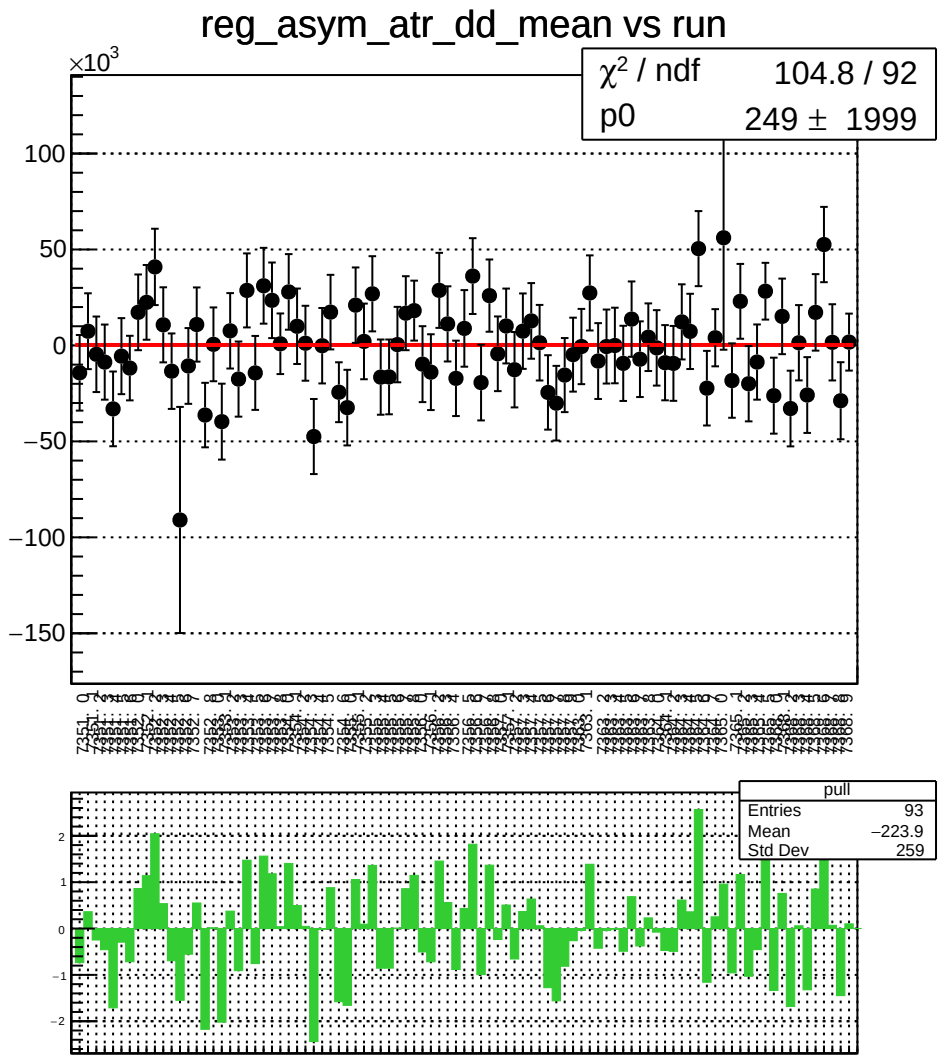

pull1D
Entries 93
Mean 0.01195
Std Dev 0.8801

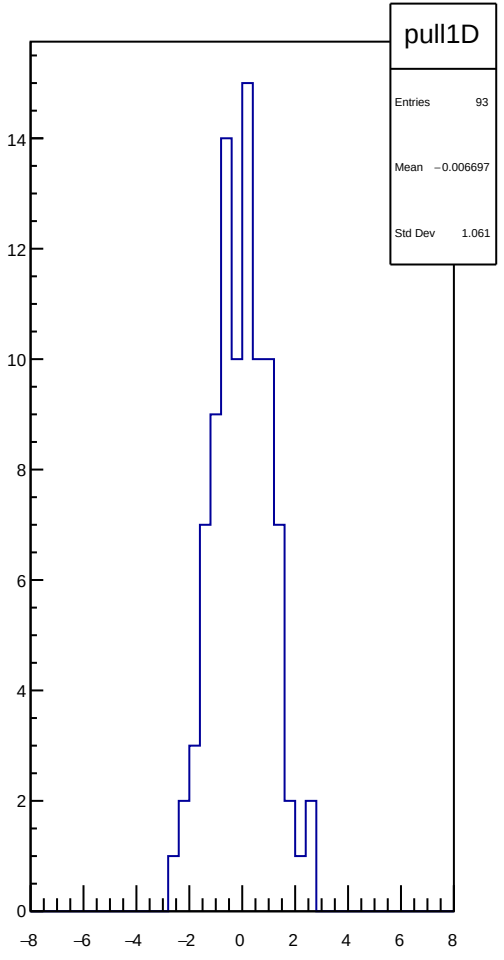

asym_atr_avg_correction_rms vs run
χ^2 / ndf 1.49e+04 / 92
p0 6195 ± 4.685
9000
8500
8000
7500
7000
6500
6000
5500
5000

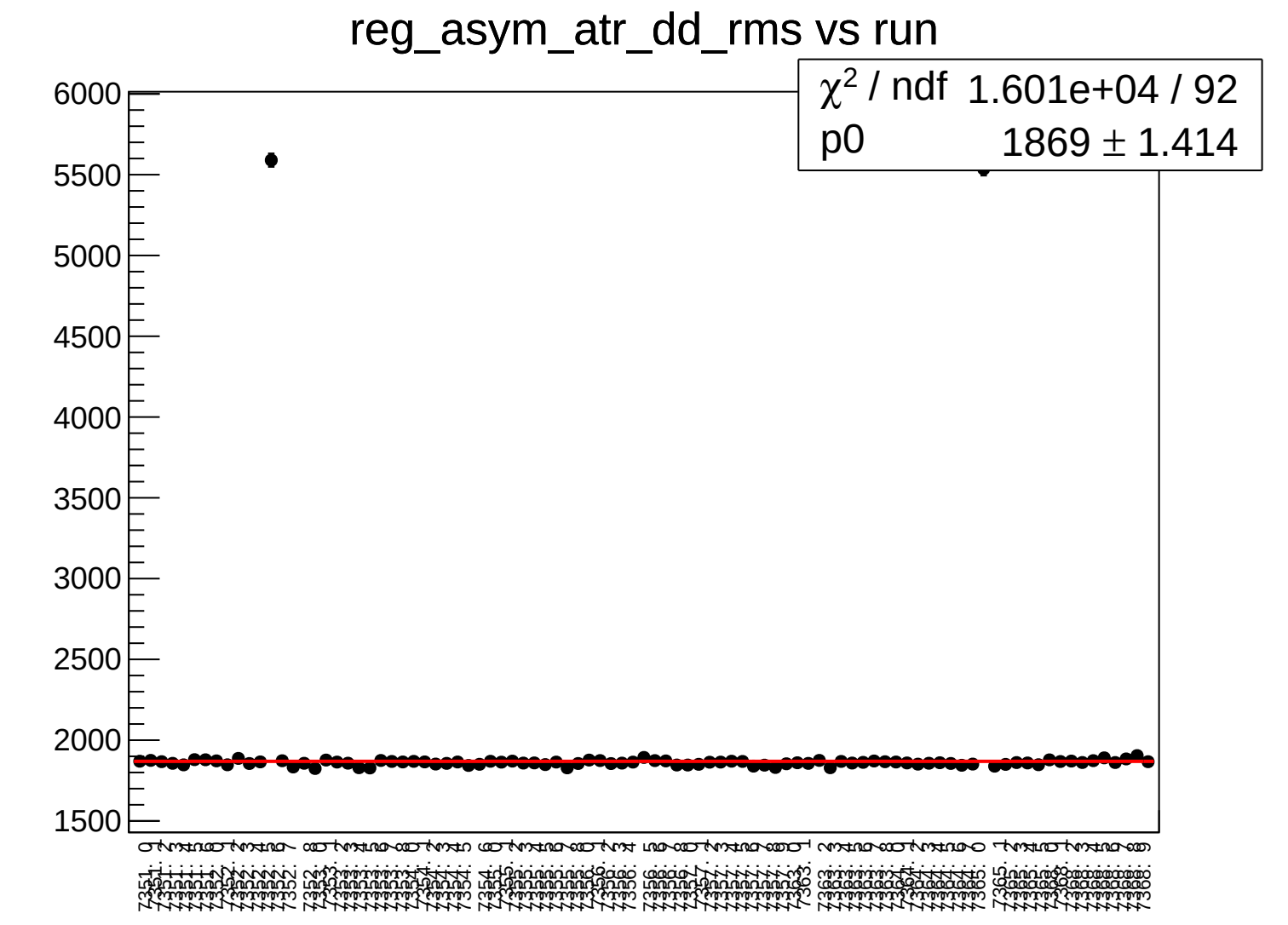

asym_atr_avg_mean vs run
×10^3
χ² / ndf 72.28 / 92
p0 −6110 ± 6958
pull
Entries 93
Mean −130.8
Std Dev 171.8

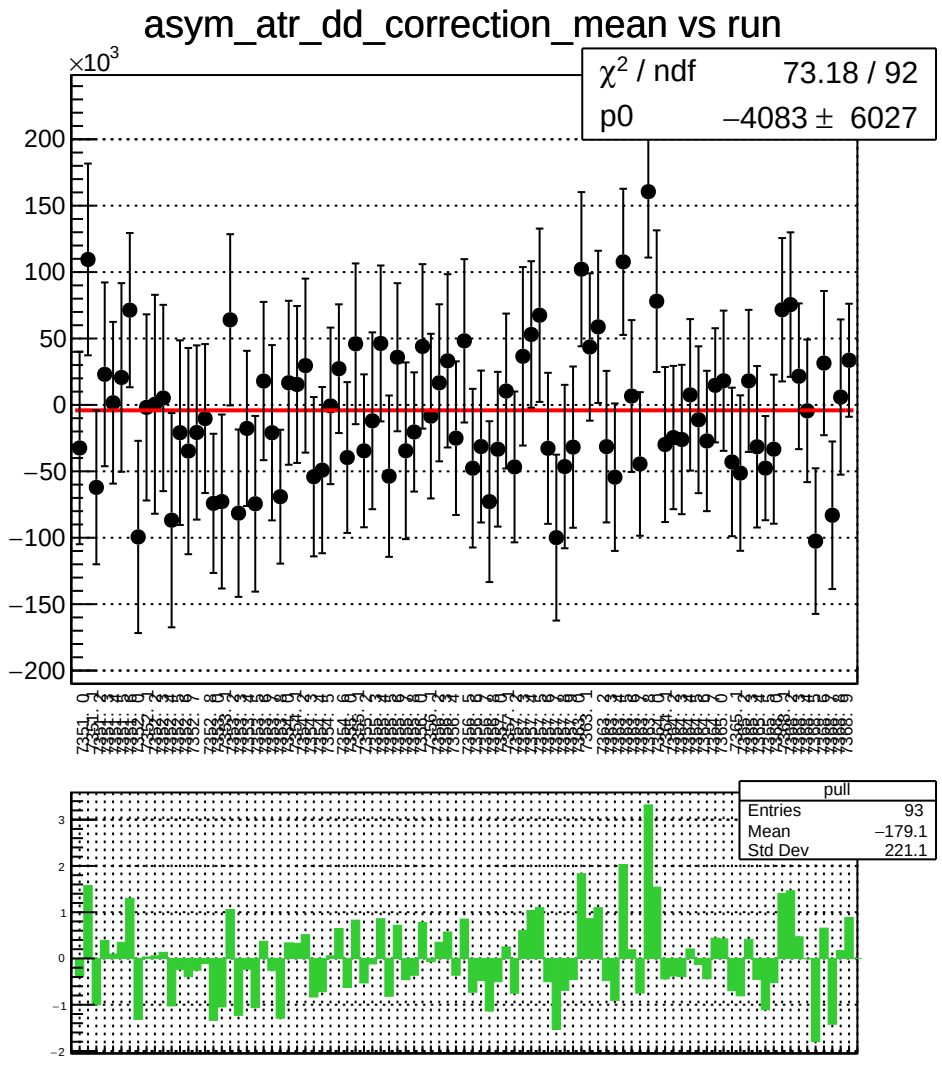

pull1D
Entries 93
Mean −0.01584
Std Dev 0.8815

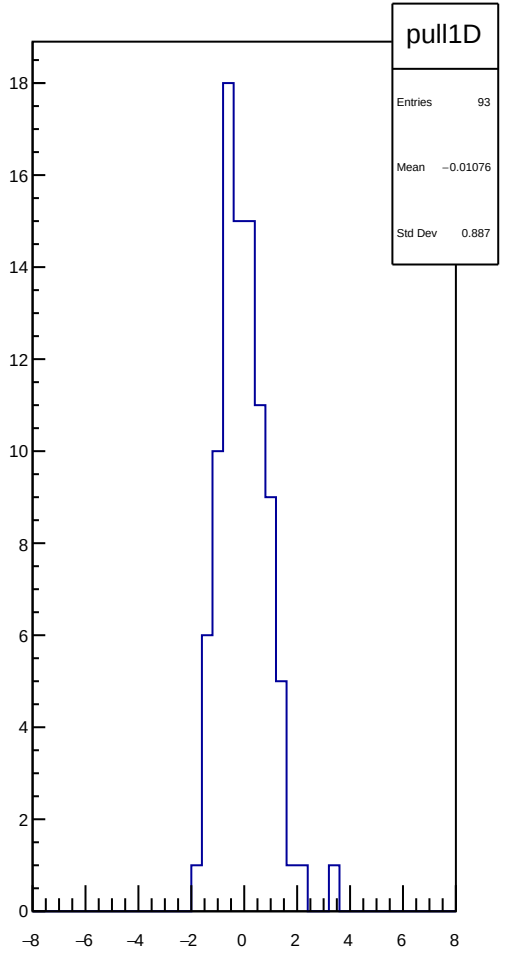

asym_atr_avg_rms vs run
χ^2 / ndf 1.422e+04 / 92
p0 6508 ± 4.92
9500
9000
8500
8000
7500
7000
6500
6000
5500

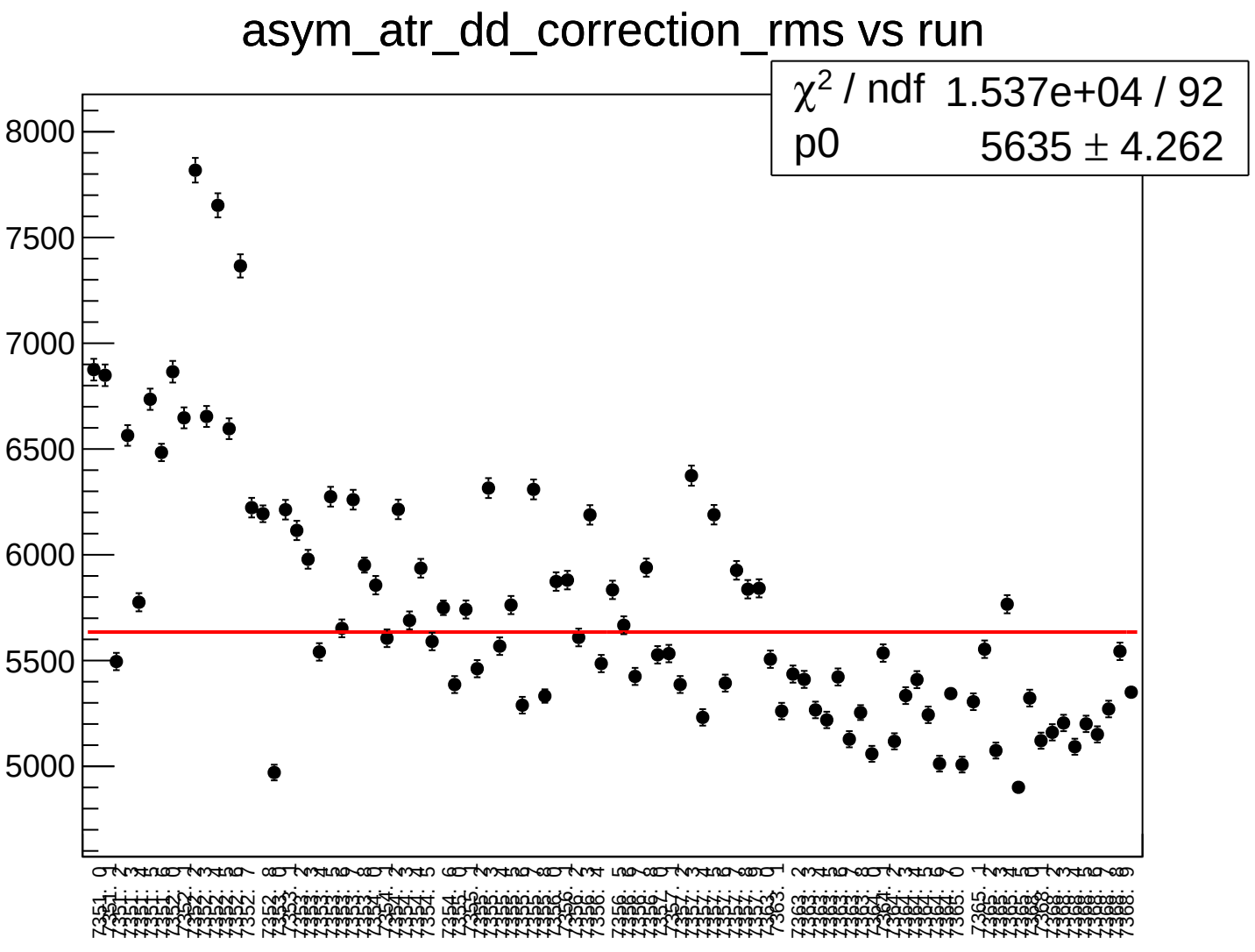

reg_asym_atr_dd_mean vs run
×10^3
χ² / ndf 104.8 / 92
p0 249 ± 1999
100
50
0
−50
−100
−150
pull
Entries 93
Mean −223.9
Std Dev 259
2
1
0
−1
−2

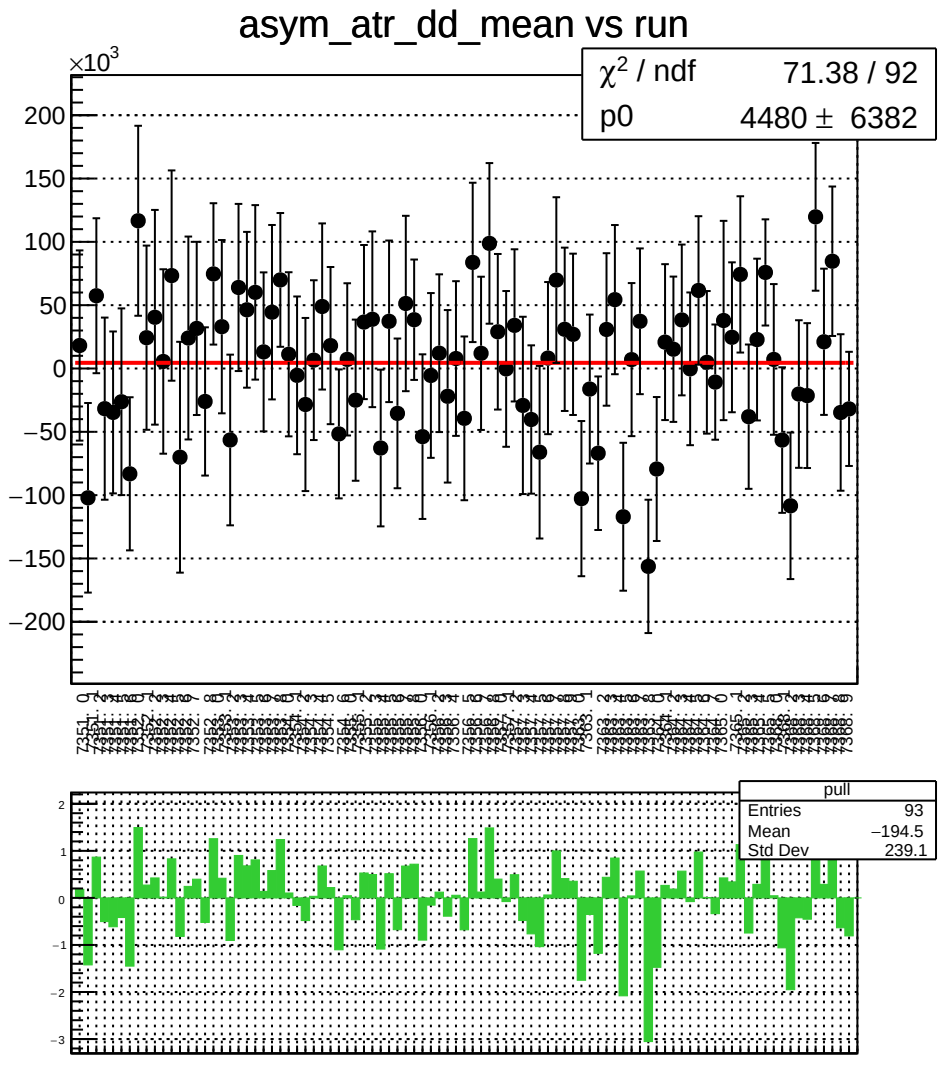

pull1D
Entries 93
Mean −0.006697
Std Dev 1.061
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

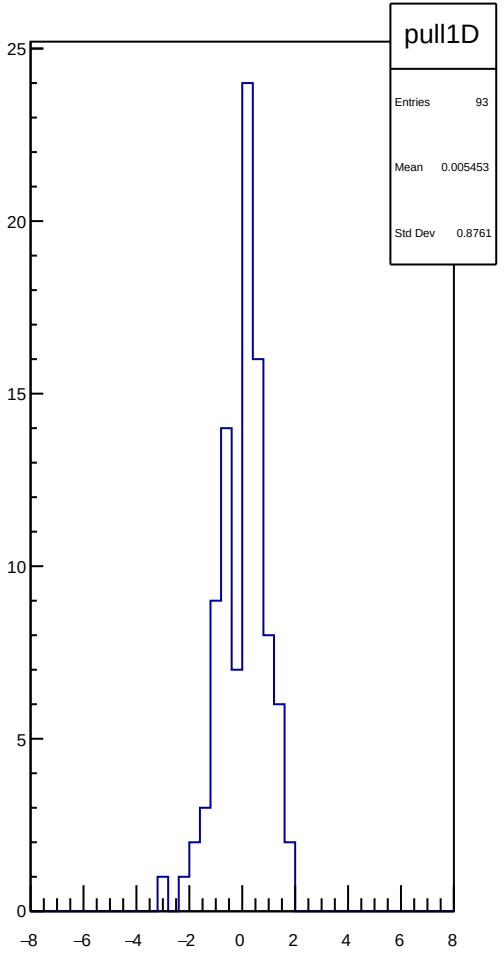

reg_asym_atr_dd_rms vs run
χ^2 / ndf 1.601e+04 / 92
p0 1869 ± 1.414
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500


asym_atr_dd_correction_mean vs run
×10^3
χ^2 / ndf 73.18 / 92
p0 −4083 ± 6027
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −179.1
Std Dev 221.1
3
2
1
0
−1
−2

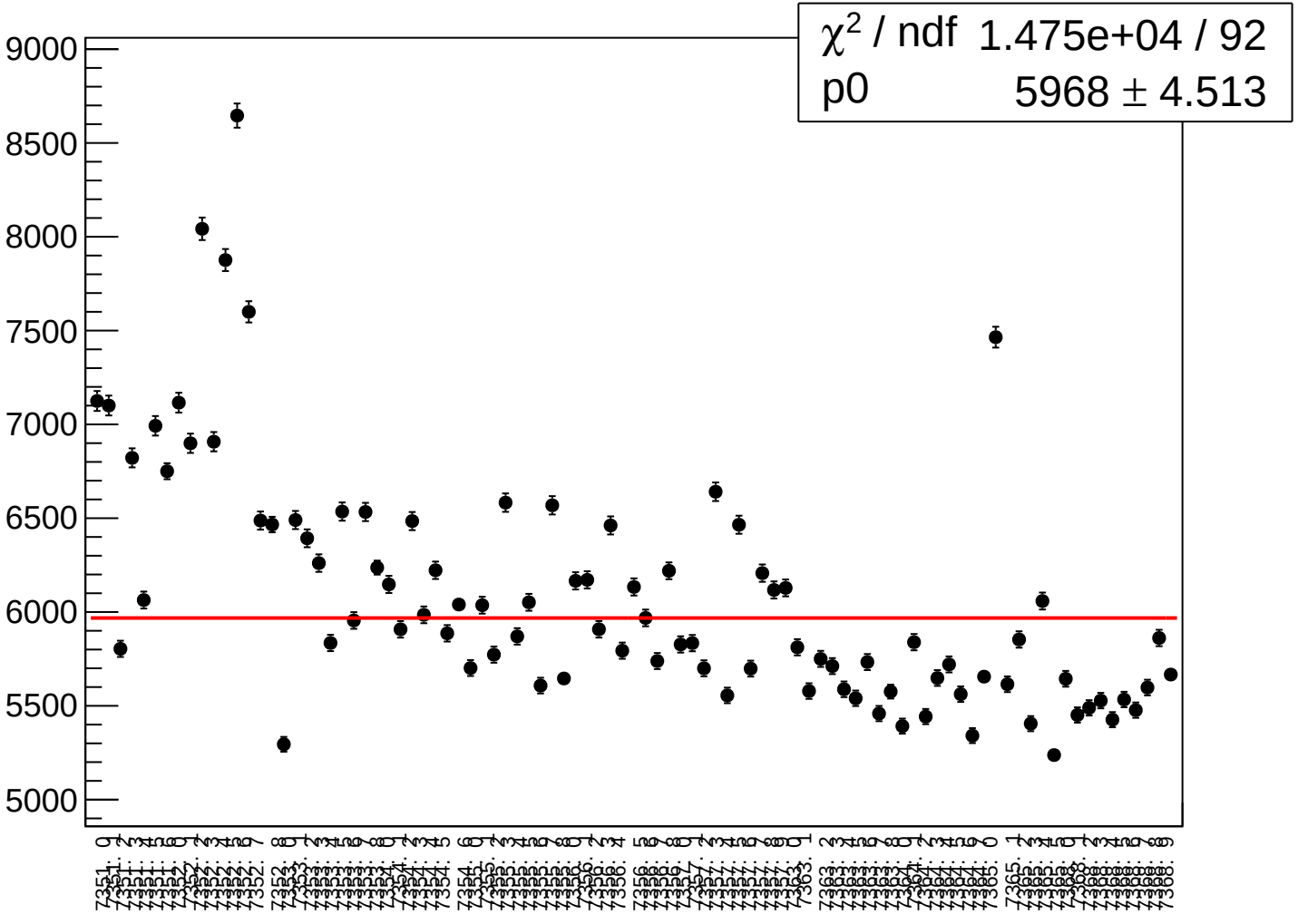

pull1D
Entries 93
Mean −0.01076
Std Dev 0.887
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

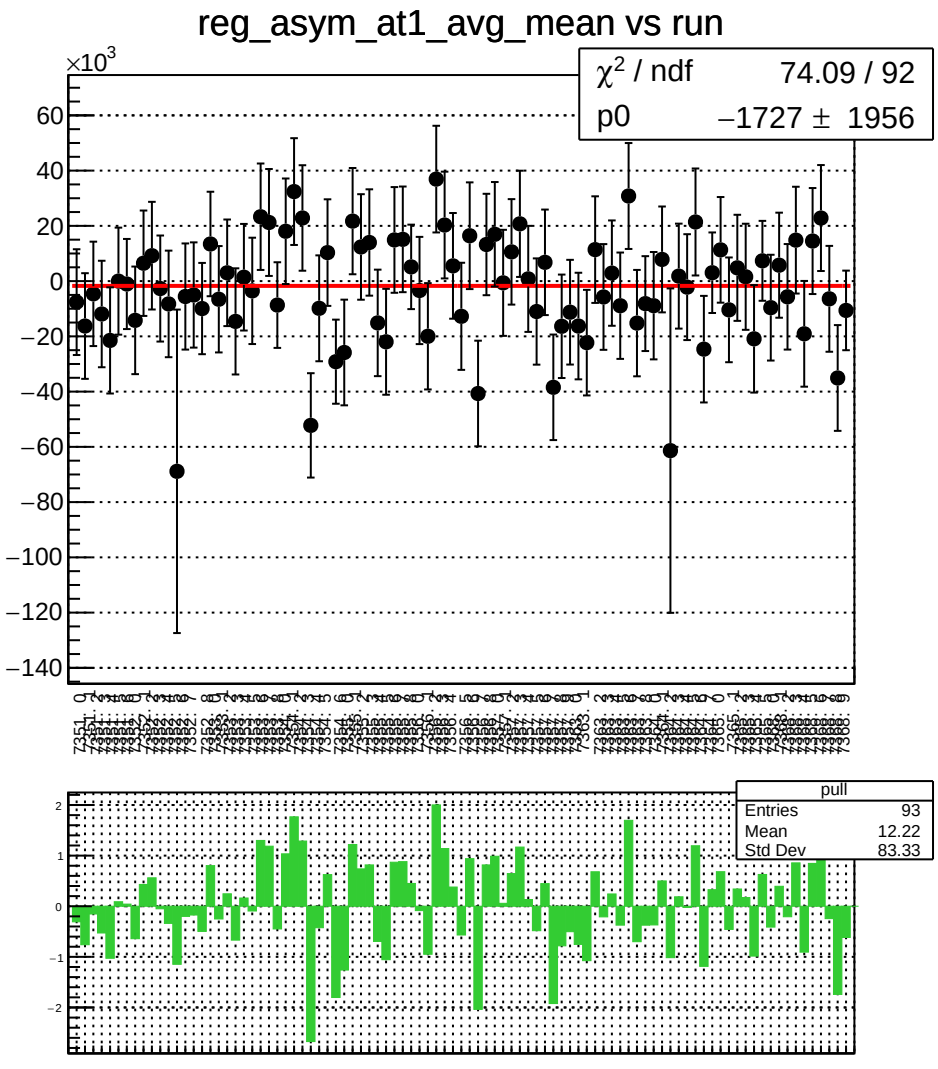

asym_atr_dd_correction_rms vs run
χ^2 / ndf 1.537e+04 / 92
p0 5635 ± 4.262
8000
7500
7000
6500
6000
5500
5000

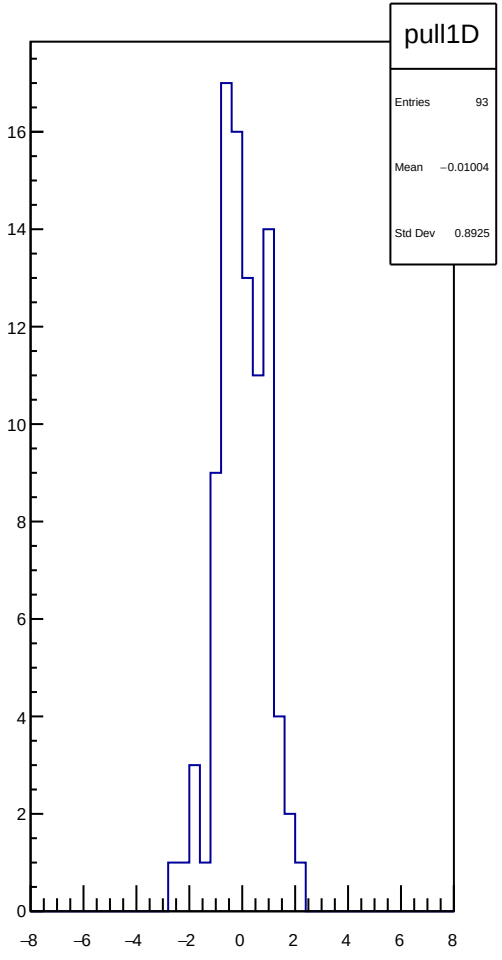

asym_atr_dd_mean vs run
×10^3
χ² / ndf 71.38 / 92
p0 4480 ± 6382
pull
Entries 93
Mean −194.5
Std Dev 239.1

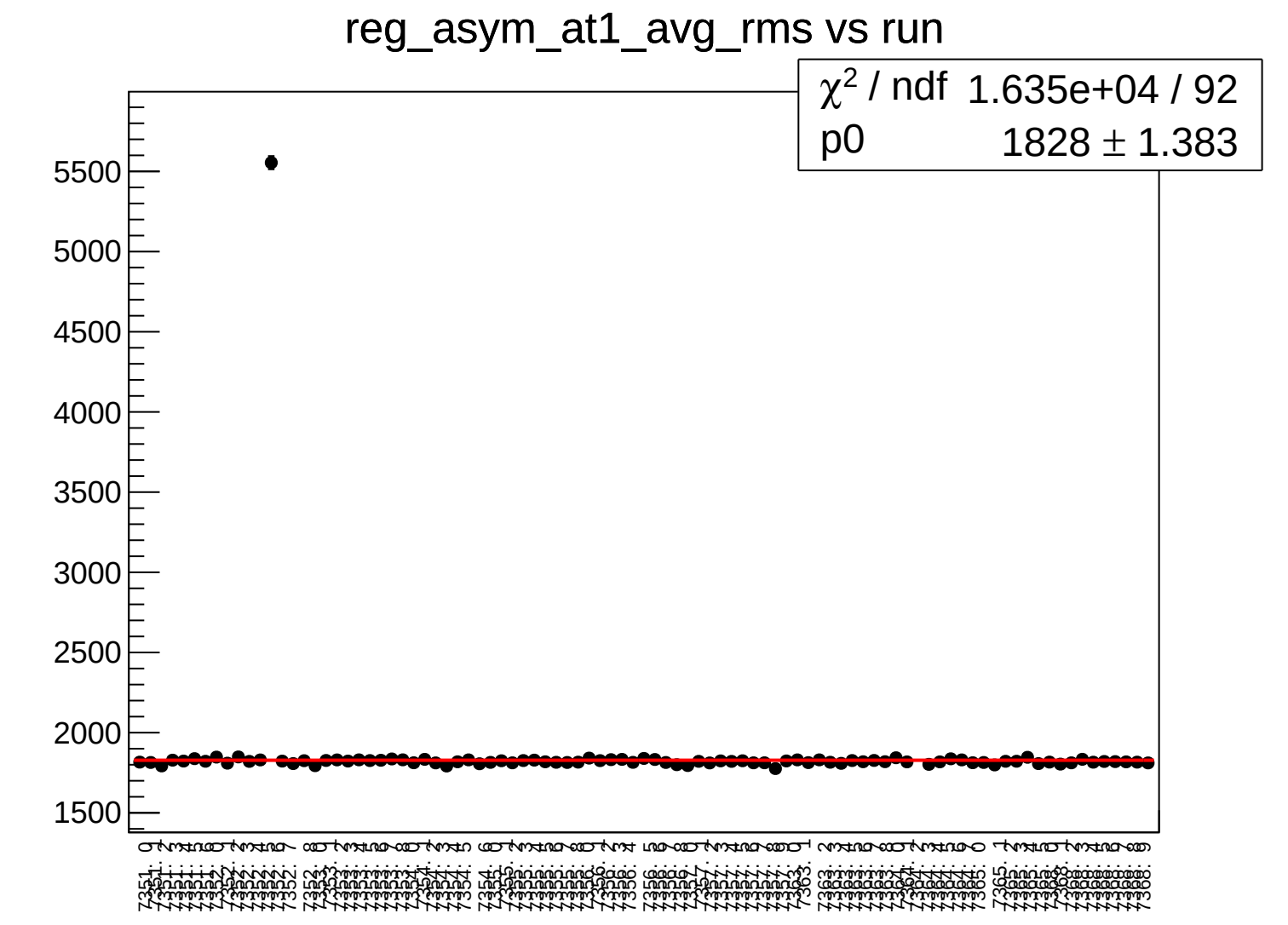

pull1D
Entries 93
Mean 0.005453
Std Dev 0.8761

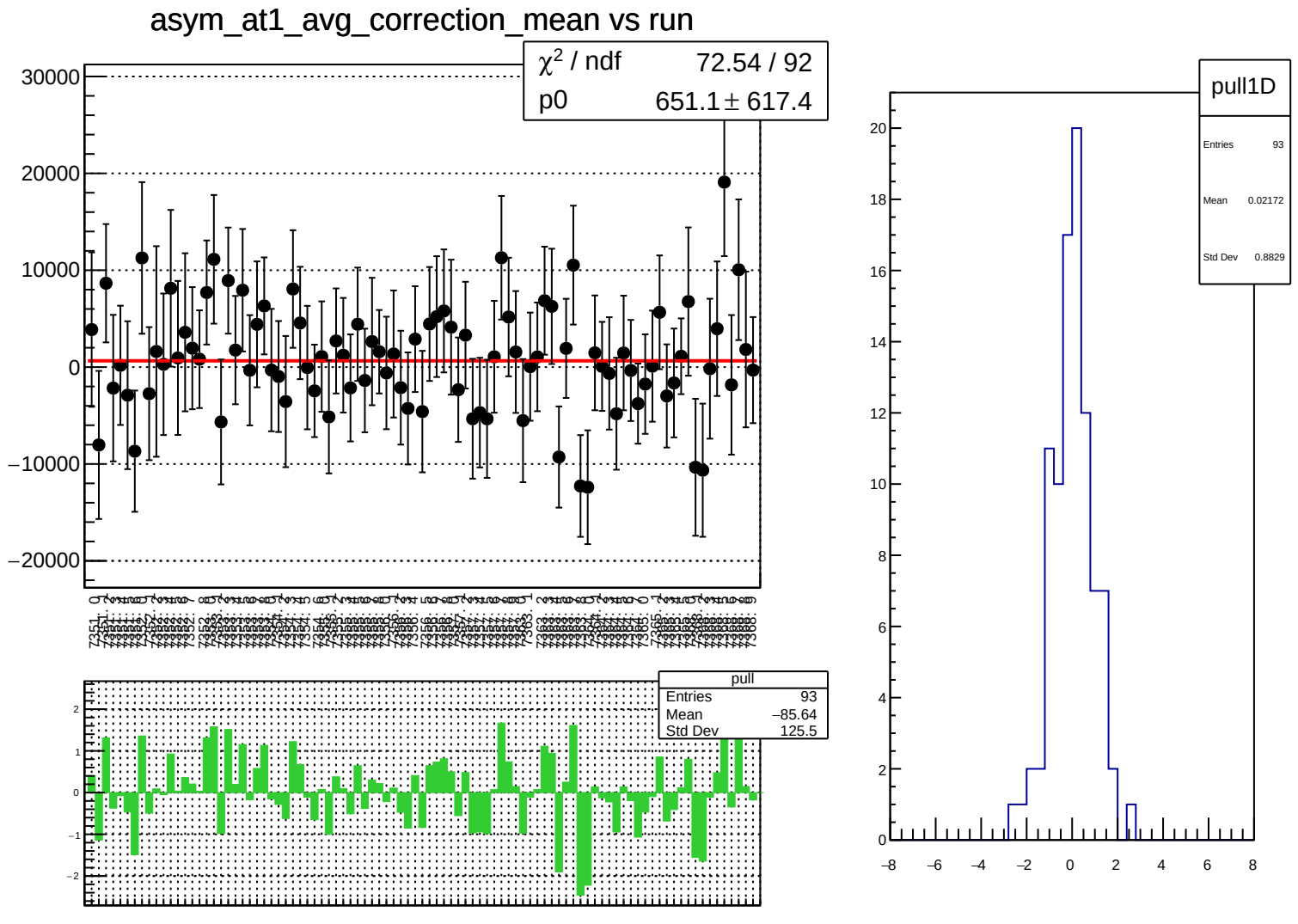
asym_atr_dd_rms vs run

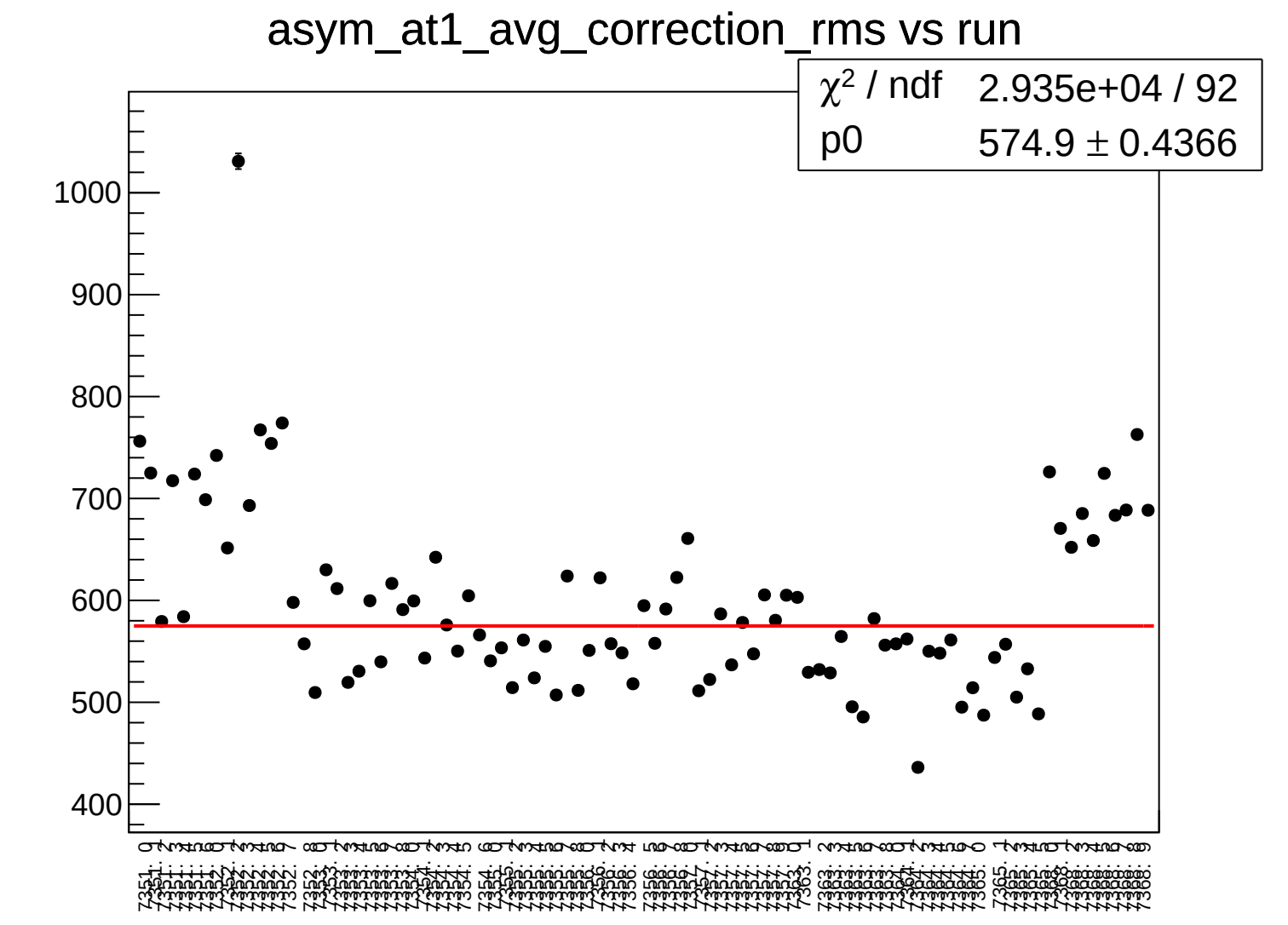


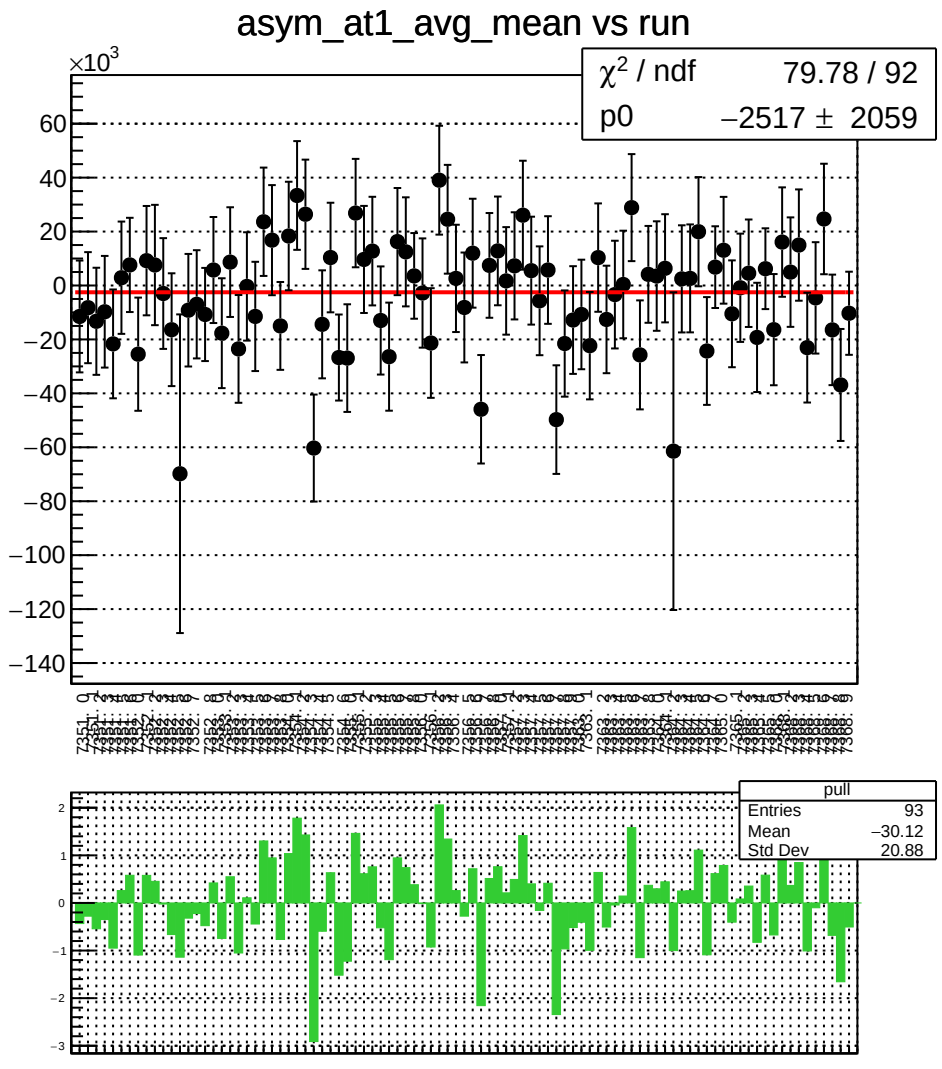

reg_asym_at1_avg_mean vs run
×10^3
χ² / ndf 74.09 / 92
p0 −1727 ± 1956
pull
Entries 93
Mean 12.22
Std Dev 83.33

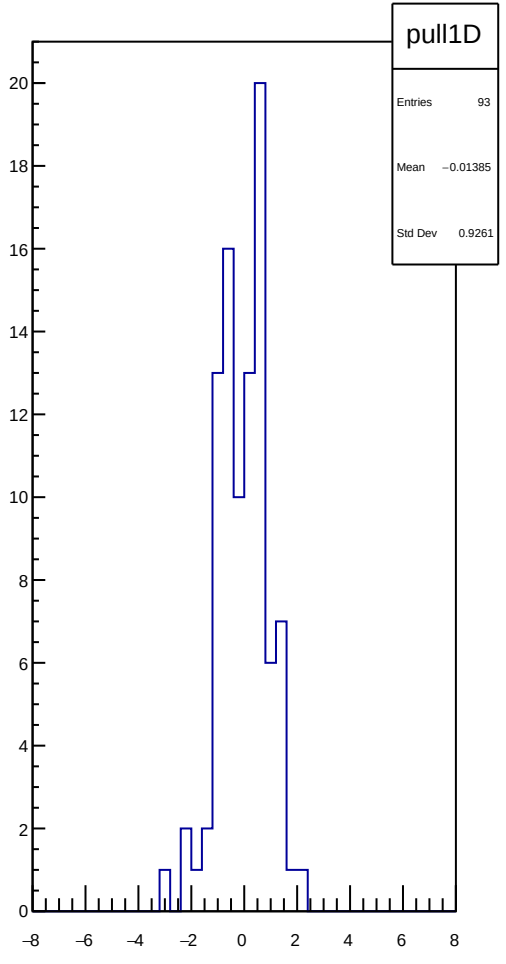

pull1D
Entries 93
Mean −0.01004
Std Dev 0.8925

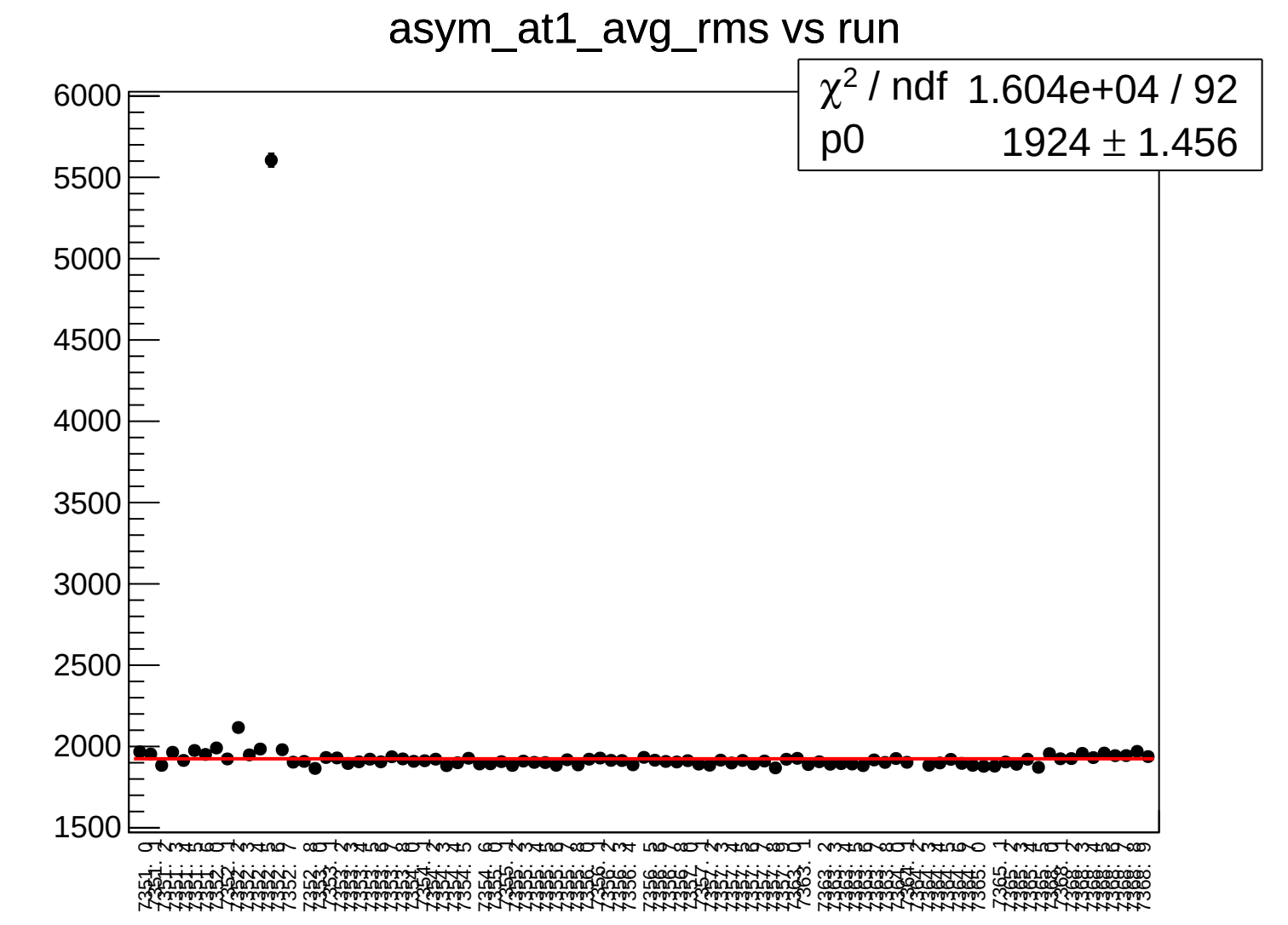

reg_asym_at1_avg_rms vs run
χ^2 / ndf 1.635e+04 / 92
p0 1828 ± 1.383
5500
5000
4500
4000
3500
3000
2500
2000
1500

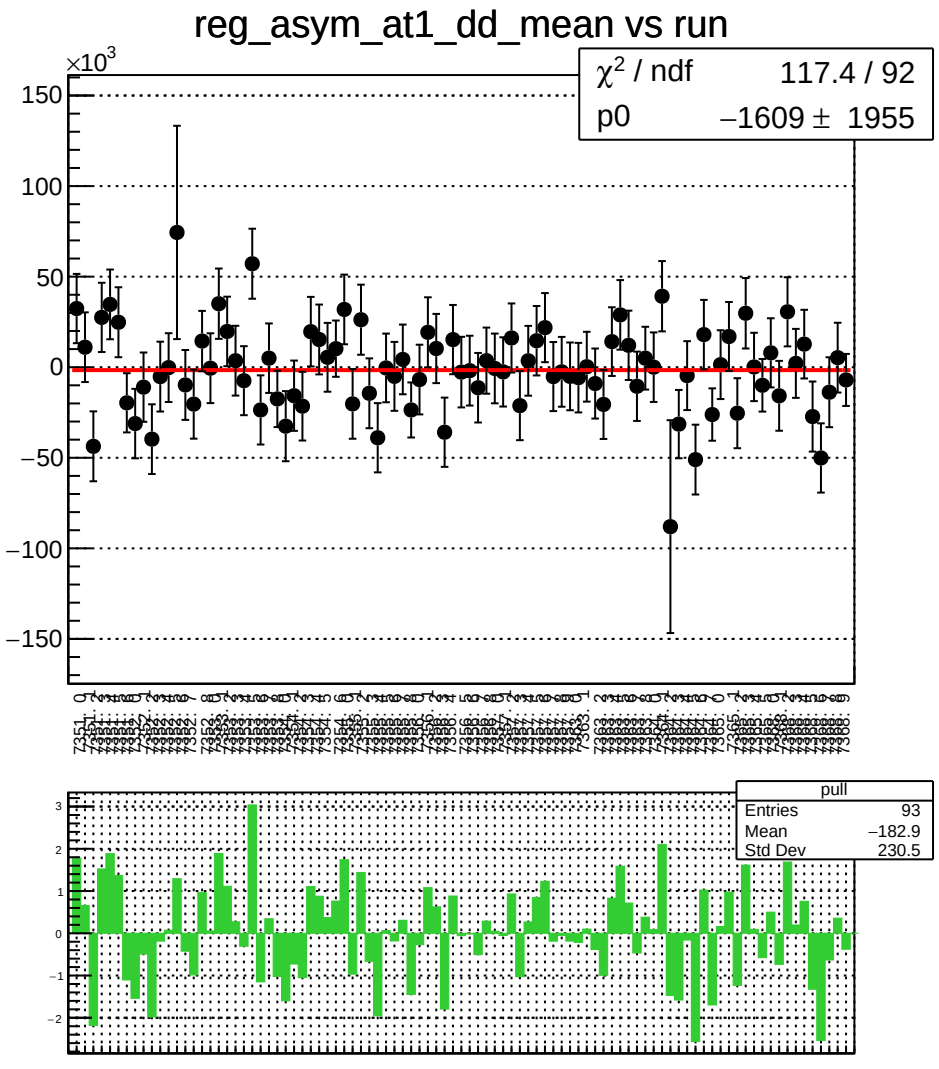

asym_at1_avg_correction_mean vs run
χ² / ndf 72.54 / 92
p0 651.1 ± 617.4
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −85.64
Std Dev 125.5
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.02172
Std Dev 0.8829
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

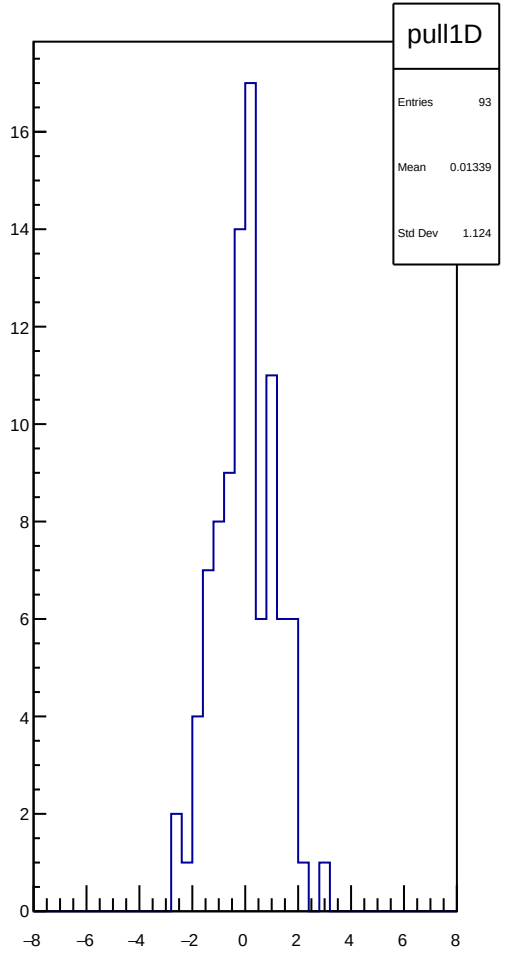

asym_at1_avg_correction_rms vs run
χ² / ndf 2.935e+04 / 92
p0 574.9 ± 0.4366
1000
900
800
700
600
500
400

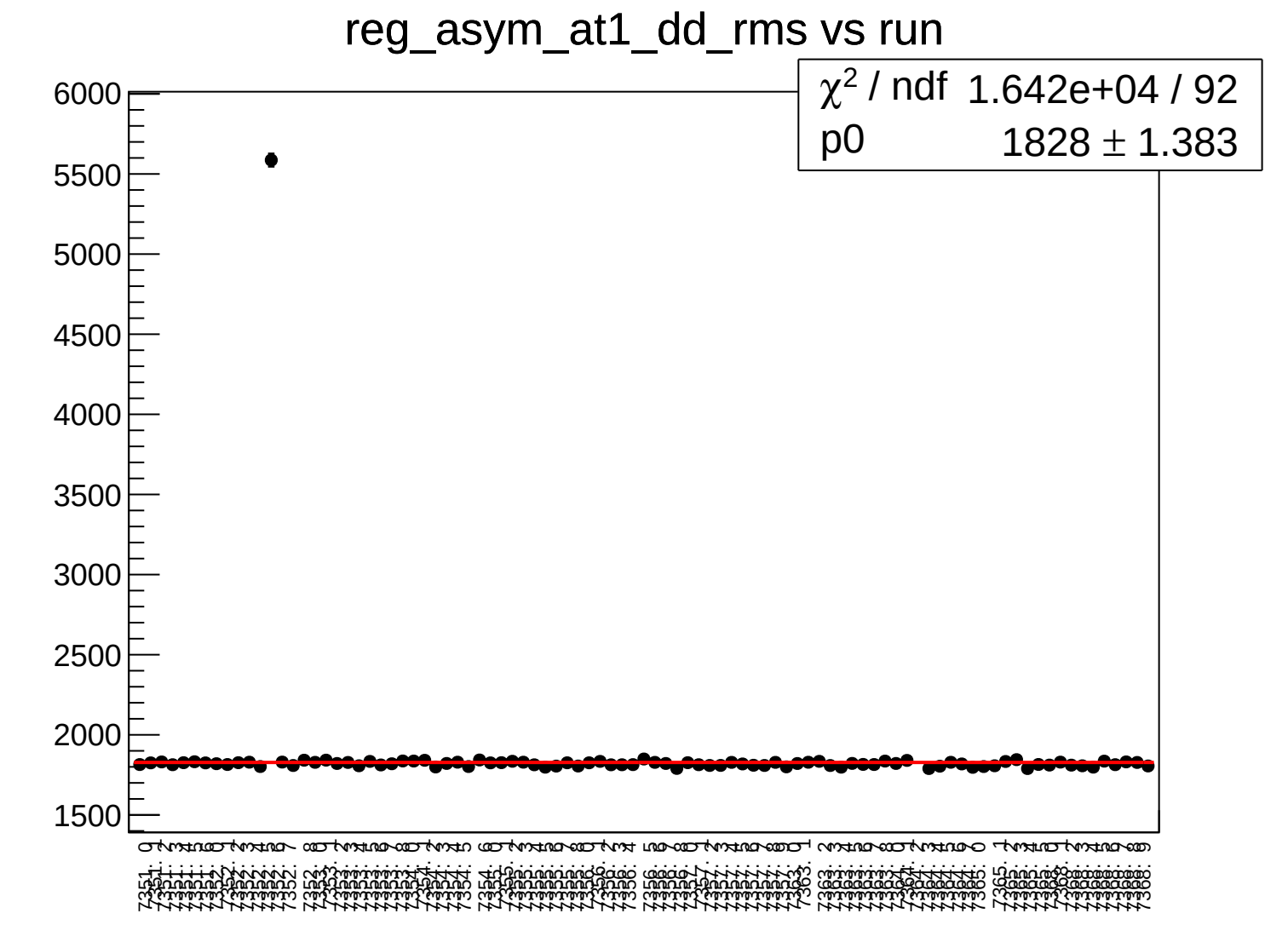

asym_at1_avg_mean vs run
×10^3
χ² / ndf 79.78 / 92
p0 −2517 ± 2059
pull
Entries 93
Mean −30.12
Std Dev 20.88

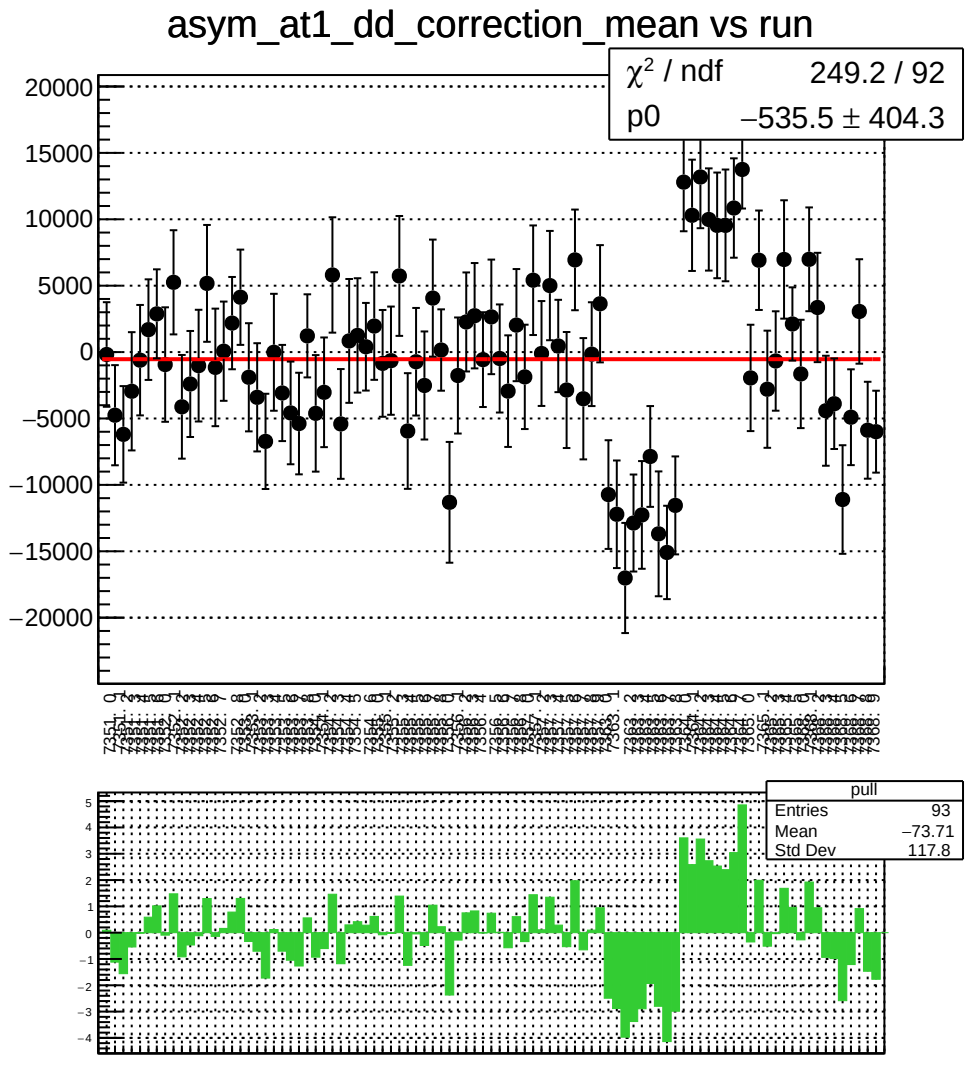

pull1D
Entries 93
Mean −0.01385
Std Dev 0.9261

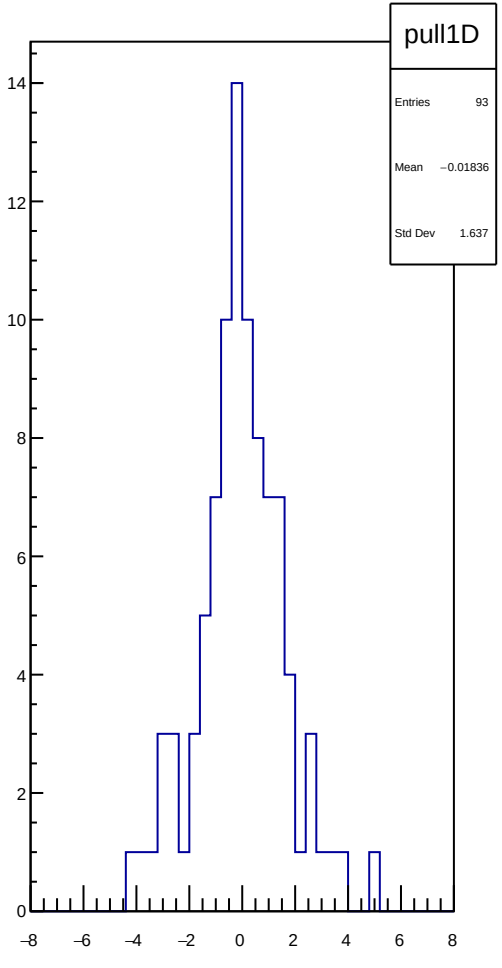

asym_at1_avg_rms vs run
χ^2 / ndf 1.604e+04 / 92
p0 1924 ± 1.456
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

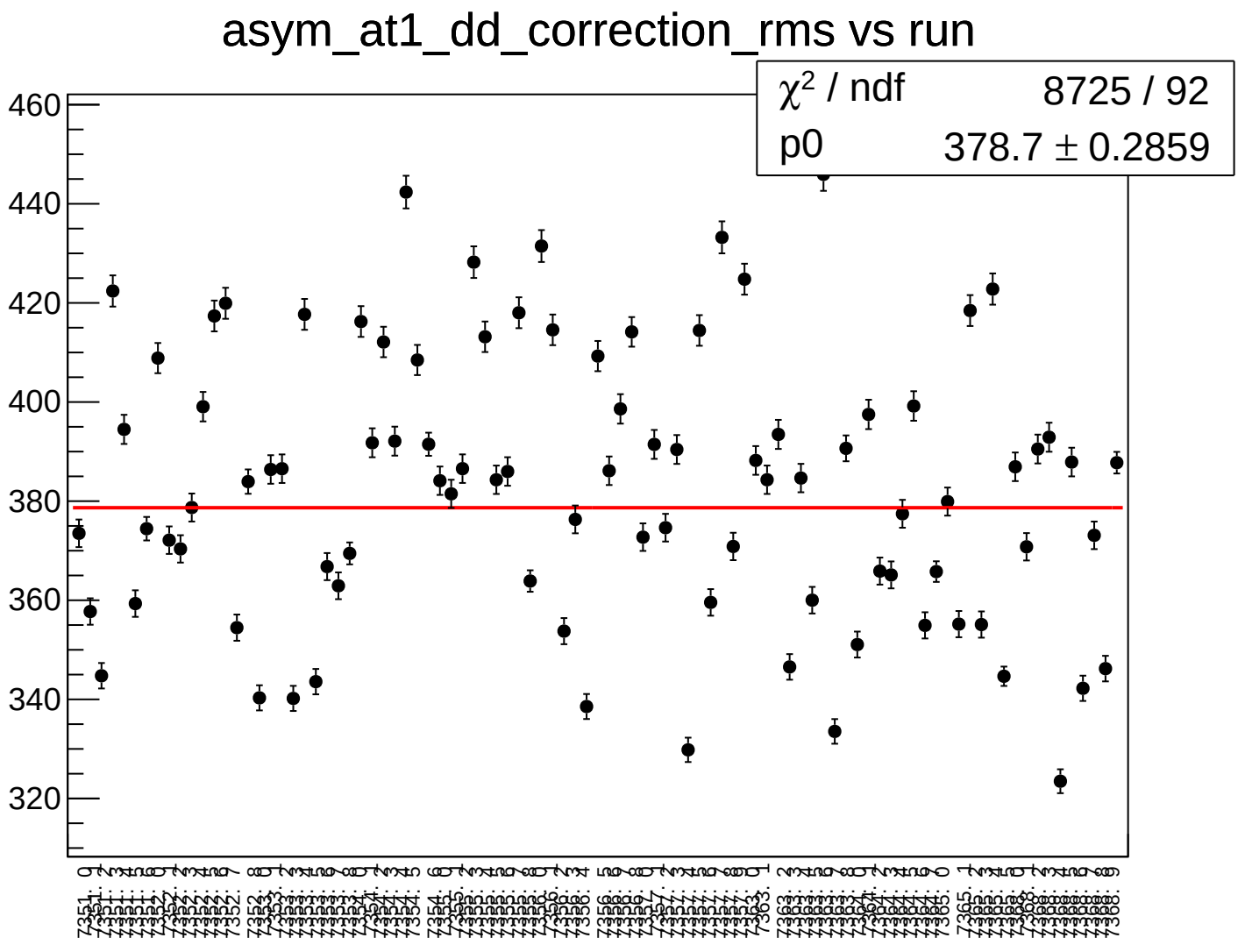

reg_asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 117.4 / 92
p0 −1609 ± 1955
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −182.9
Std Dev 230.5
3
2
1
0
−1
−2

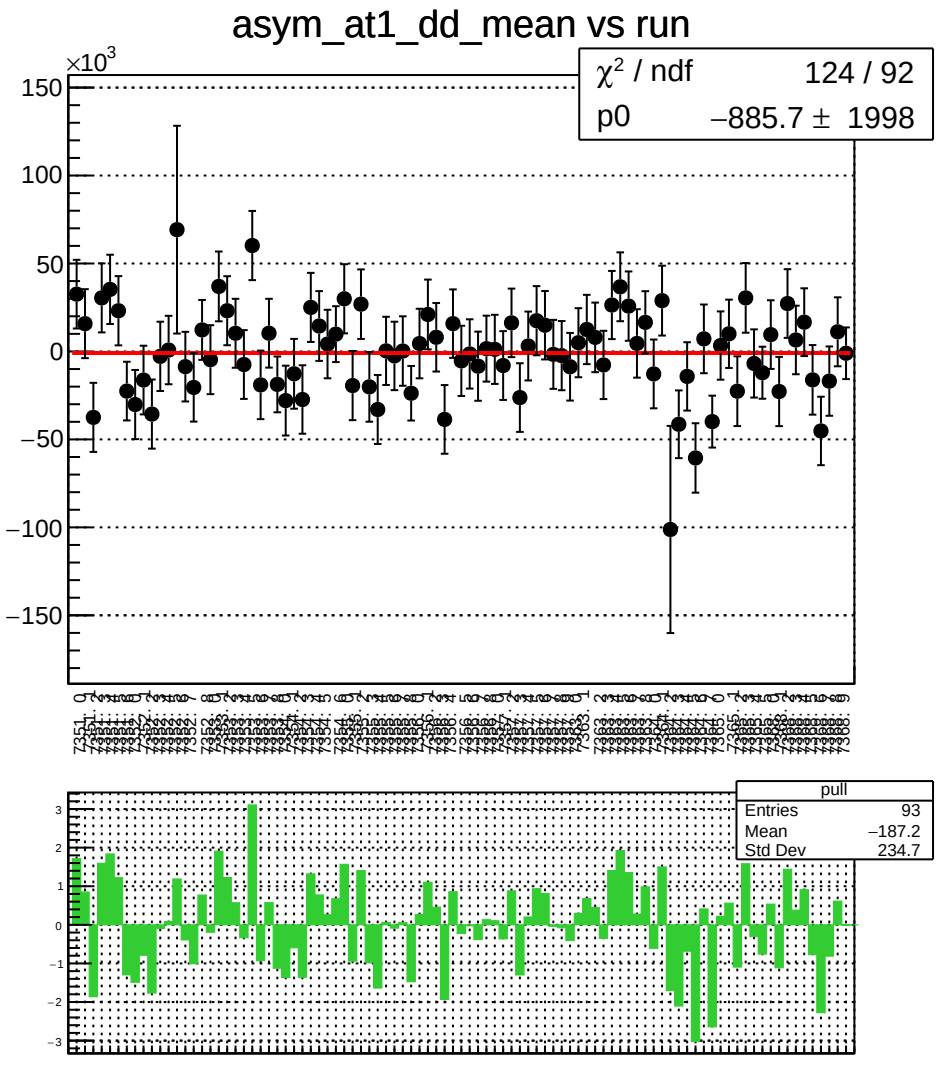

pull1D
Entries 93
Mean 0.01339
Std Dev 1.124
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

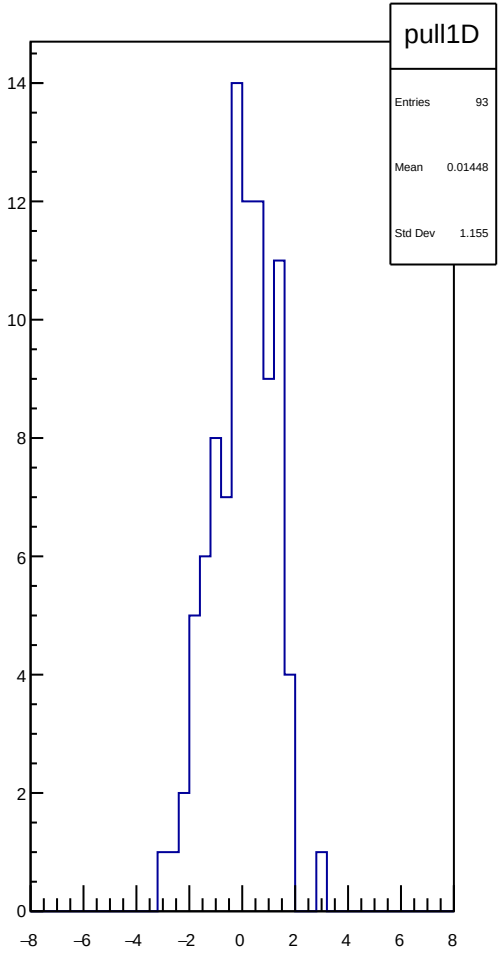

reg_asym_at1_dd_rms vs run
χ² / ndf 1.642e+04 / 92
p0 1828 ± 1.383
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

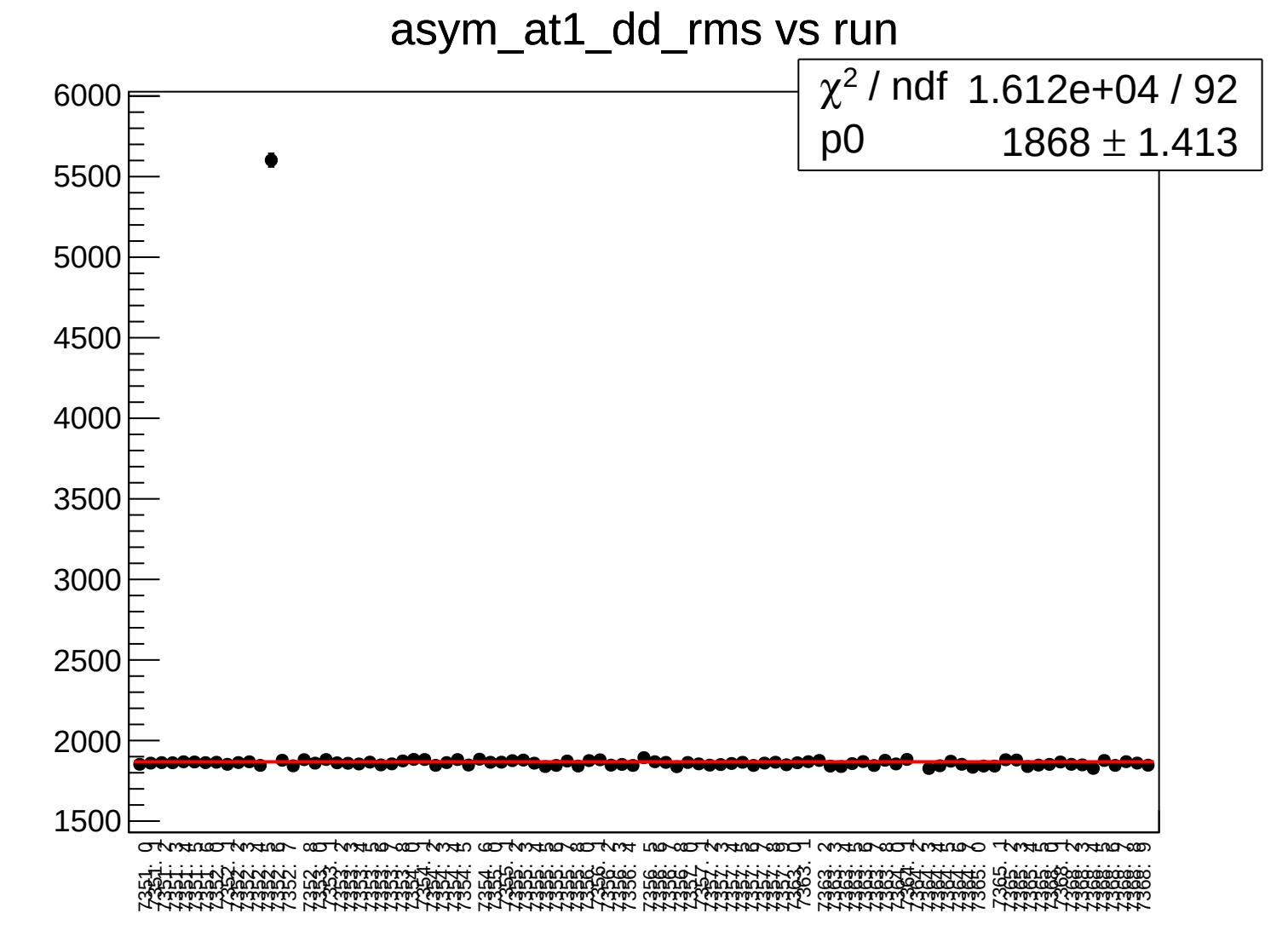

asym_at1_dd_correction_mean vs run
χ² / ndf 249.2 / 92
p0 −535.5 ± 404.3
pull
Entries 93
Mean −73.71
Std Dev 117.8

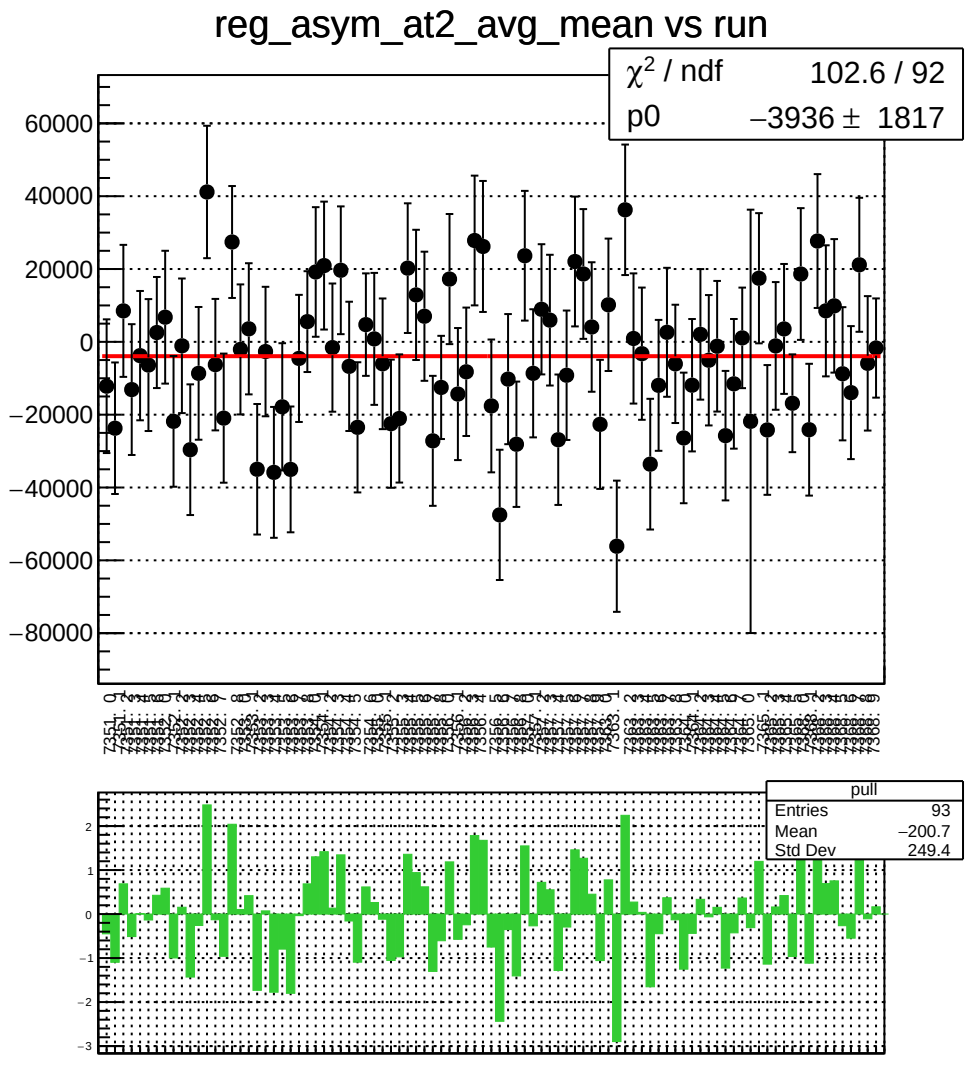

pull1D
Entries 93
Mean −0.01836
Std Dev 1.637

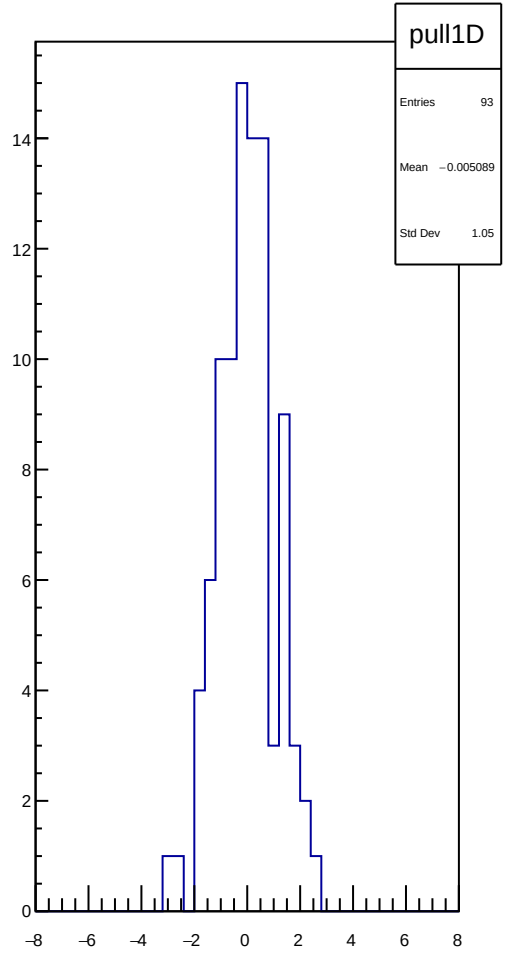

asym_at1_dd_correction_rms vs run
χ² / ndf 8725 / 92
p0 378.7 ± 0.2859
460
440
420
400
380
360
340
320

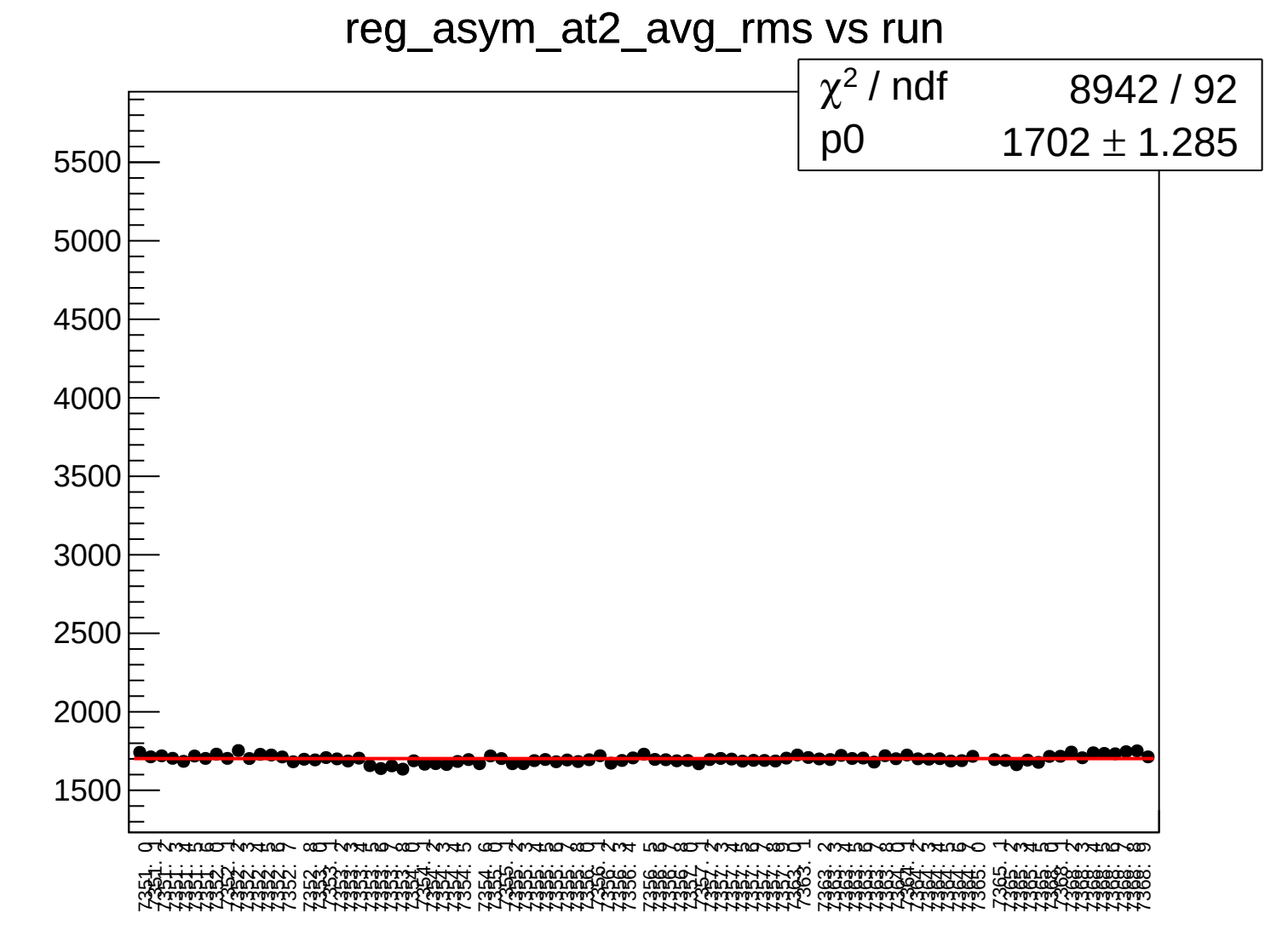

asym_at1_dd_mean vs run
×10^3
χ² / ndf 124 / 92
p0 −885.7 ± 1998
150
100
50
0
−50
−100
−150
pull
Entries 93
Mean −187.2
Std Dev 234.7
3
2
1
0
−1
−2
−3

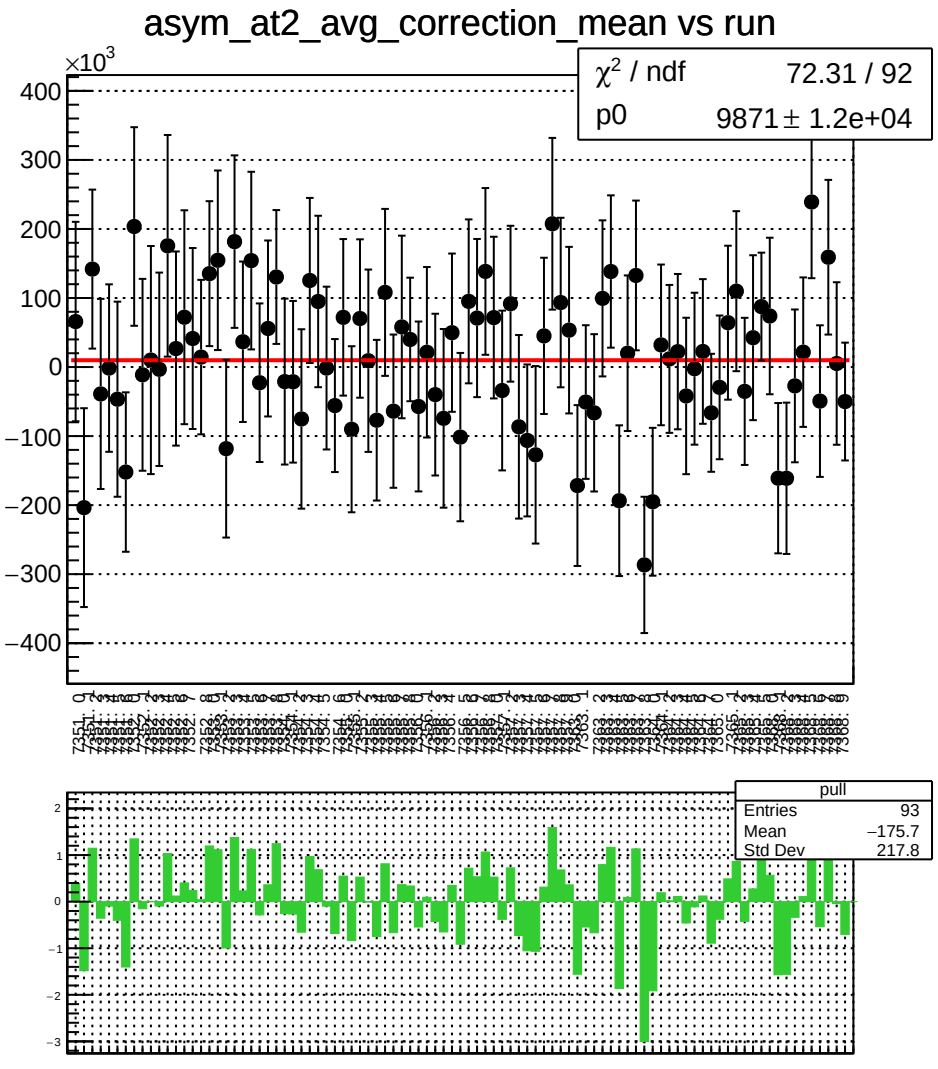

pull1D
Entries 93
Mean 0.01448
Std Dev 1.155
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

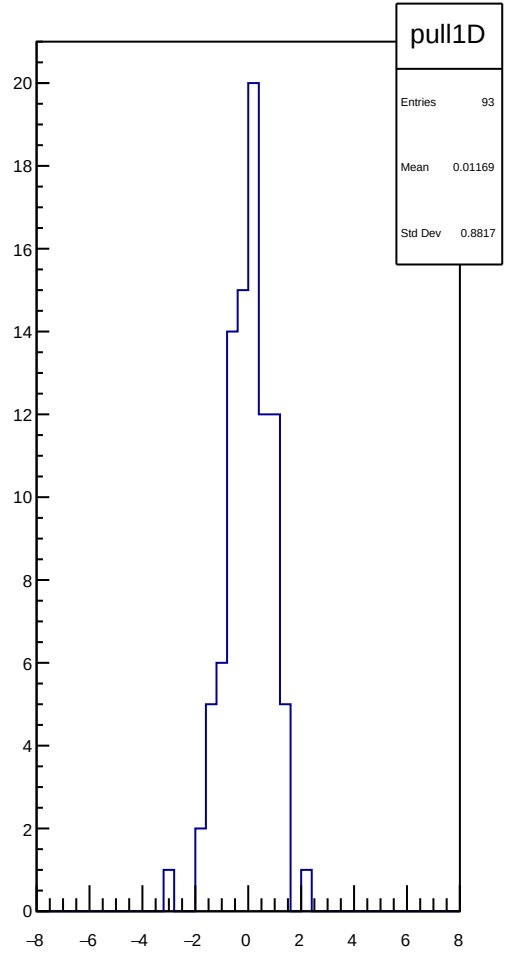

asym_at1_dd_rms vs run
χ^2 / ndf 1.612e+04 / 92
p0 1868 ± 1.413
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

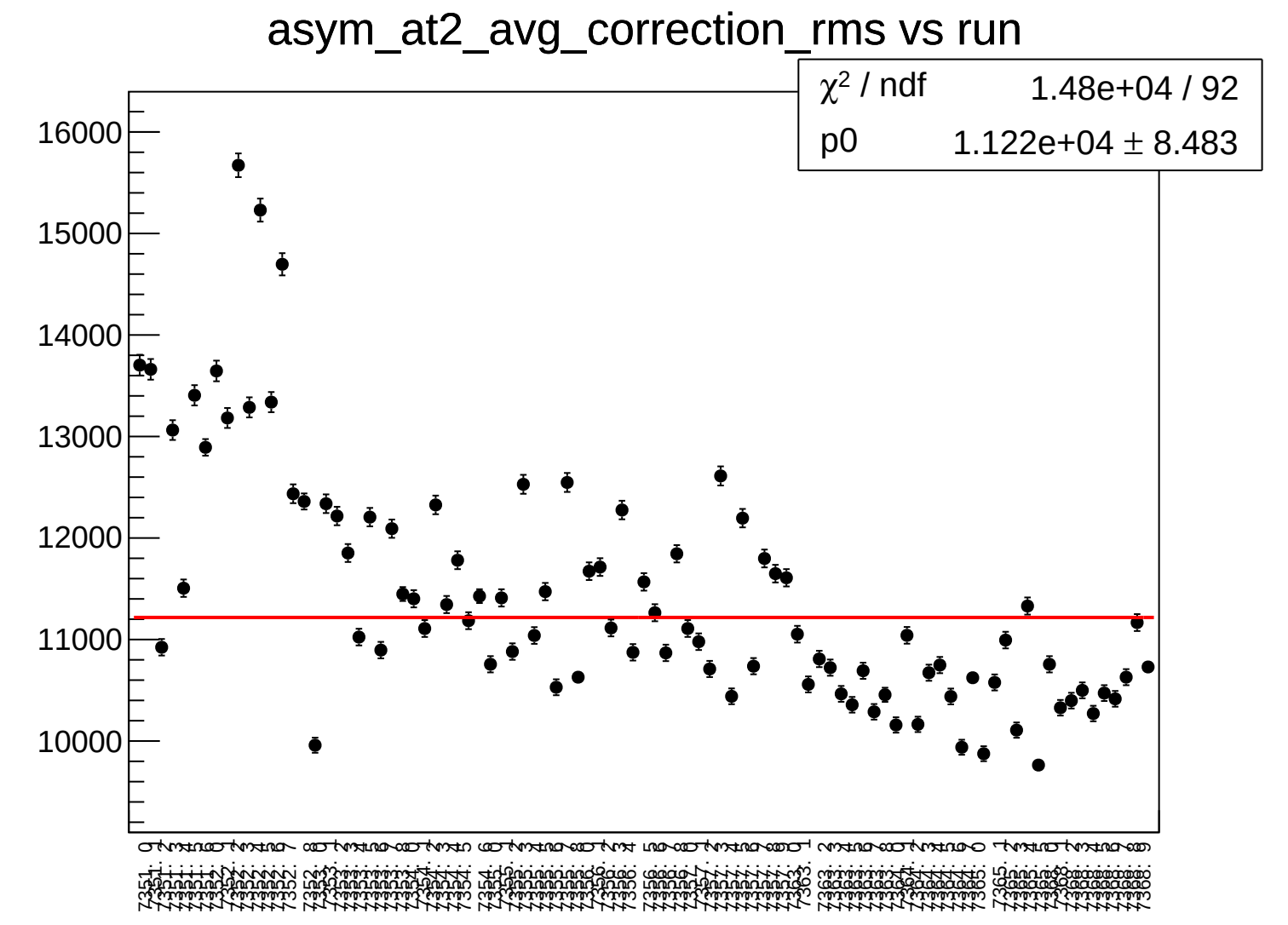

reg_asym_at2_avg_mean vs run
χ² / ndf 102.6 / 92
p0 −3936 ± 1817
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −200.7
Std Dev 249.4
2
1
0
−1
−2
−3

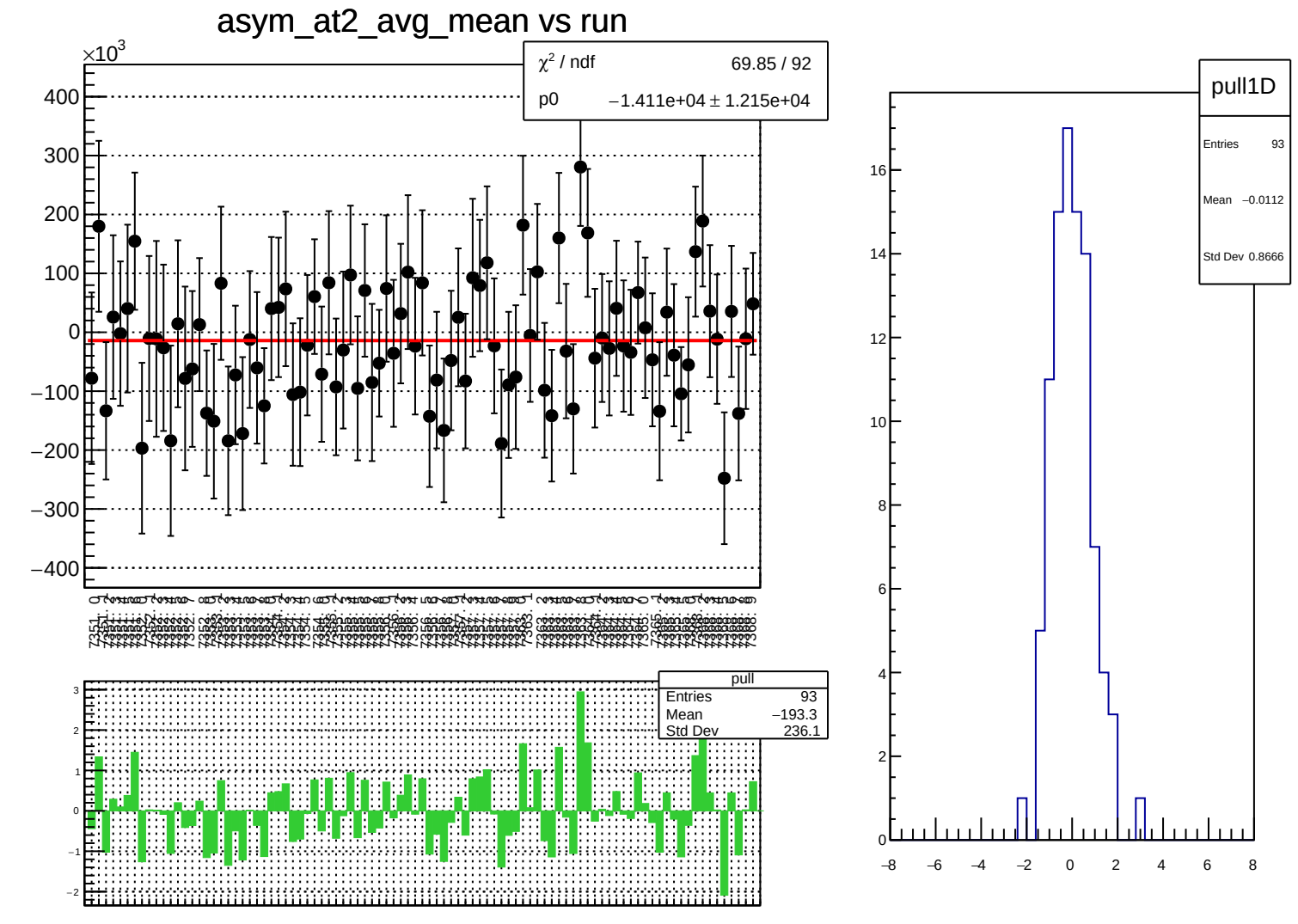

pull1D
Entries 93
Mean −0.005089
Std Dev 1.05
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

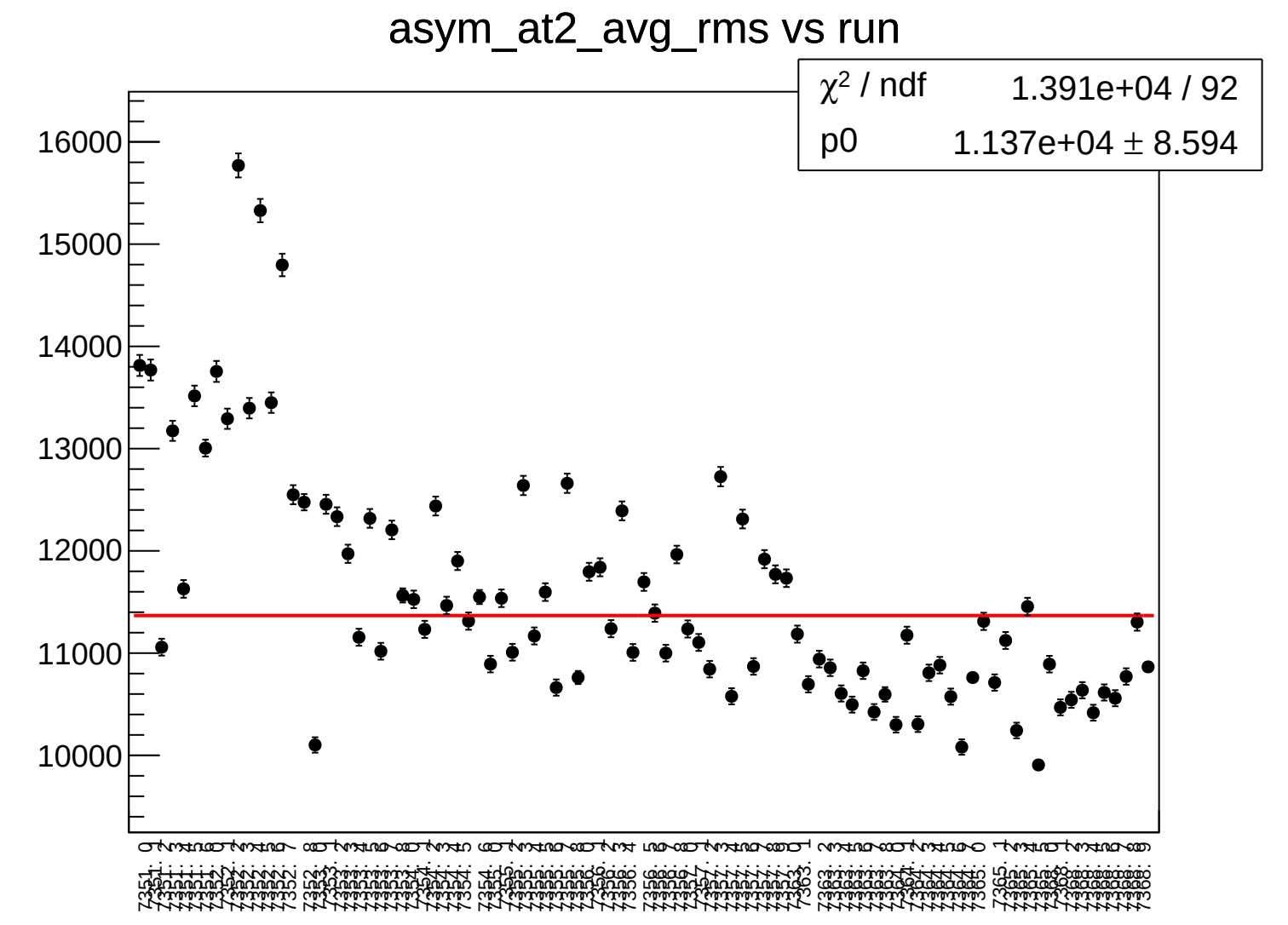

reg_asym_at2_avg_rms vs run
χ^2 / ndf 8942 / 92
p0 1702 ± 1.285
5500
5000
4500
4000
3500
3000
2500
2000
1500

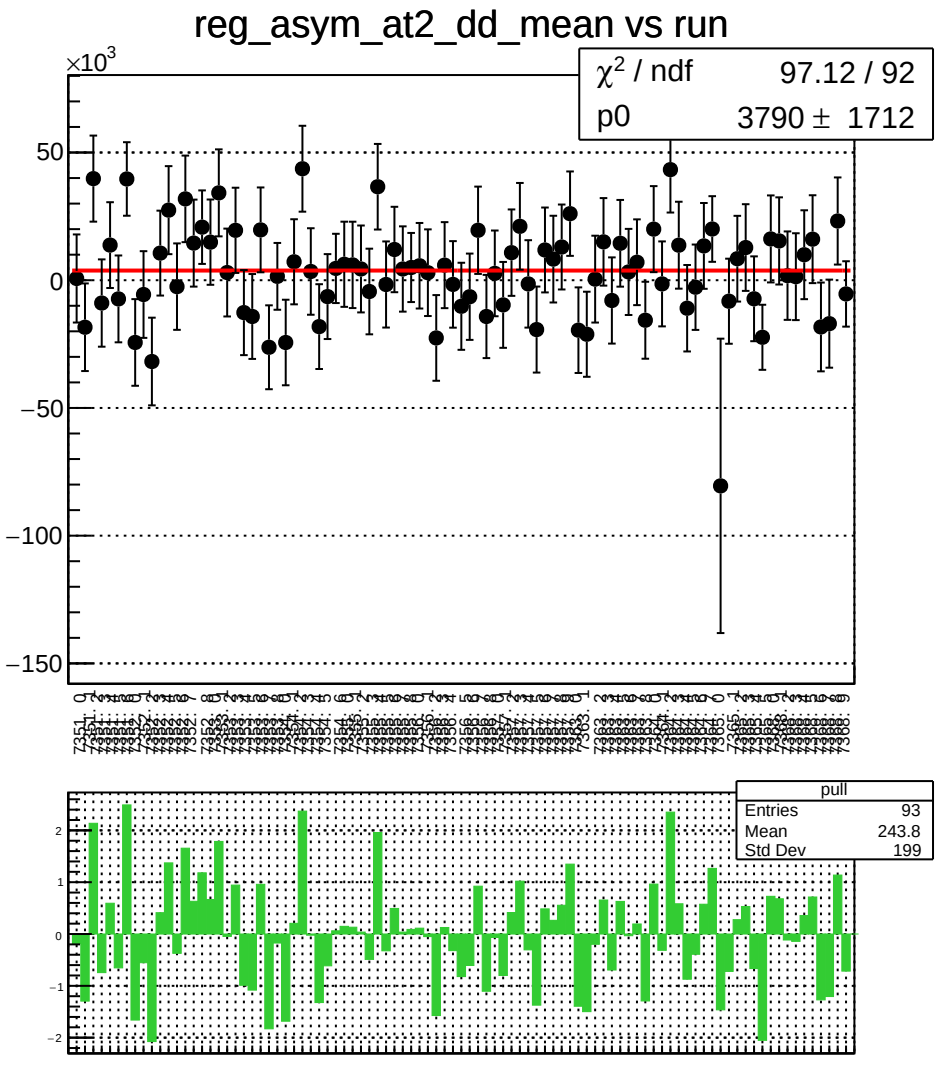

asym_at2_avg_correction_mean vs run
×10^3
χ² / ndf 72.31 / 92
p0 9871 ± 1.2e+04
pull
Entries 93
Mean −175.7
Std Dev 217.8

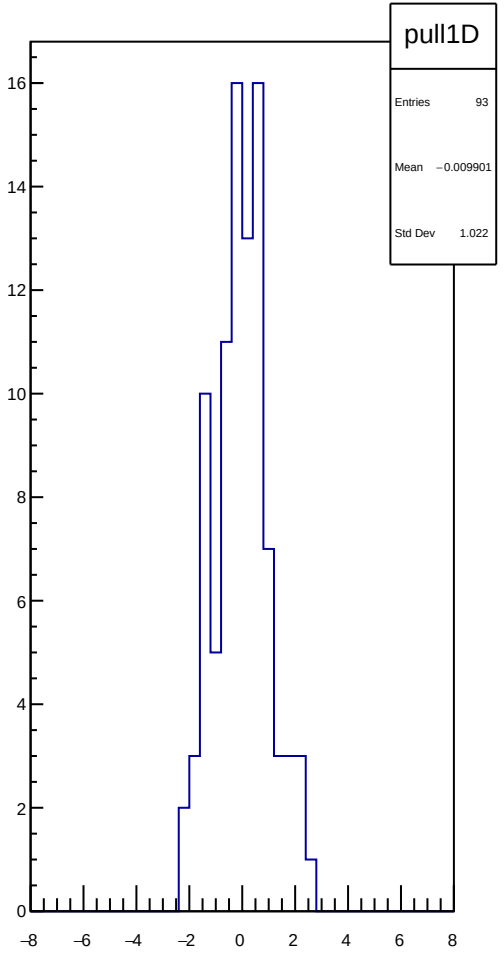

pull1D
Entries 93
Mean 0.01169
Std Dev 0.8817

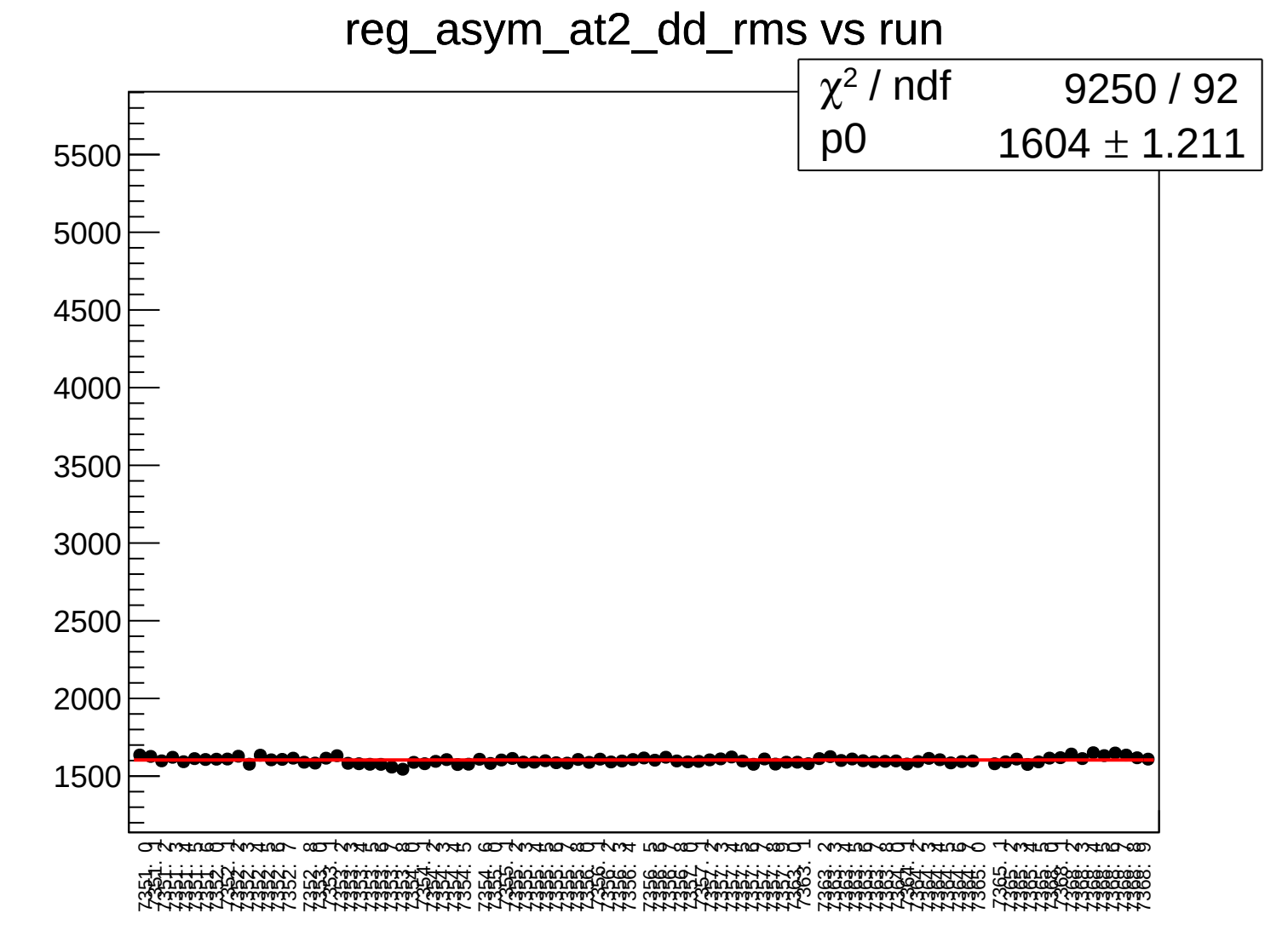

asym_at2_avg_correction_rms vs run
χ² / ndf 1.48e+04 / 92
p0 1.122e+04 ± 8.483
16000
15000
14000
13000
12000
11000
10000

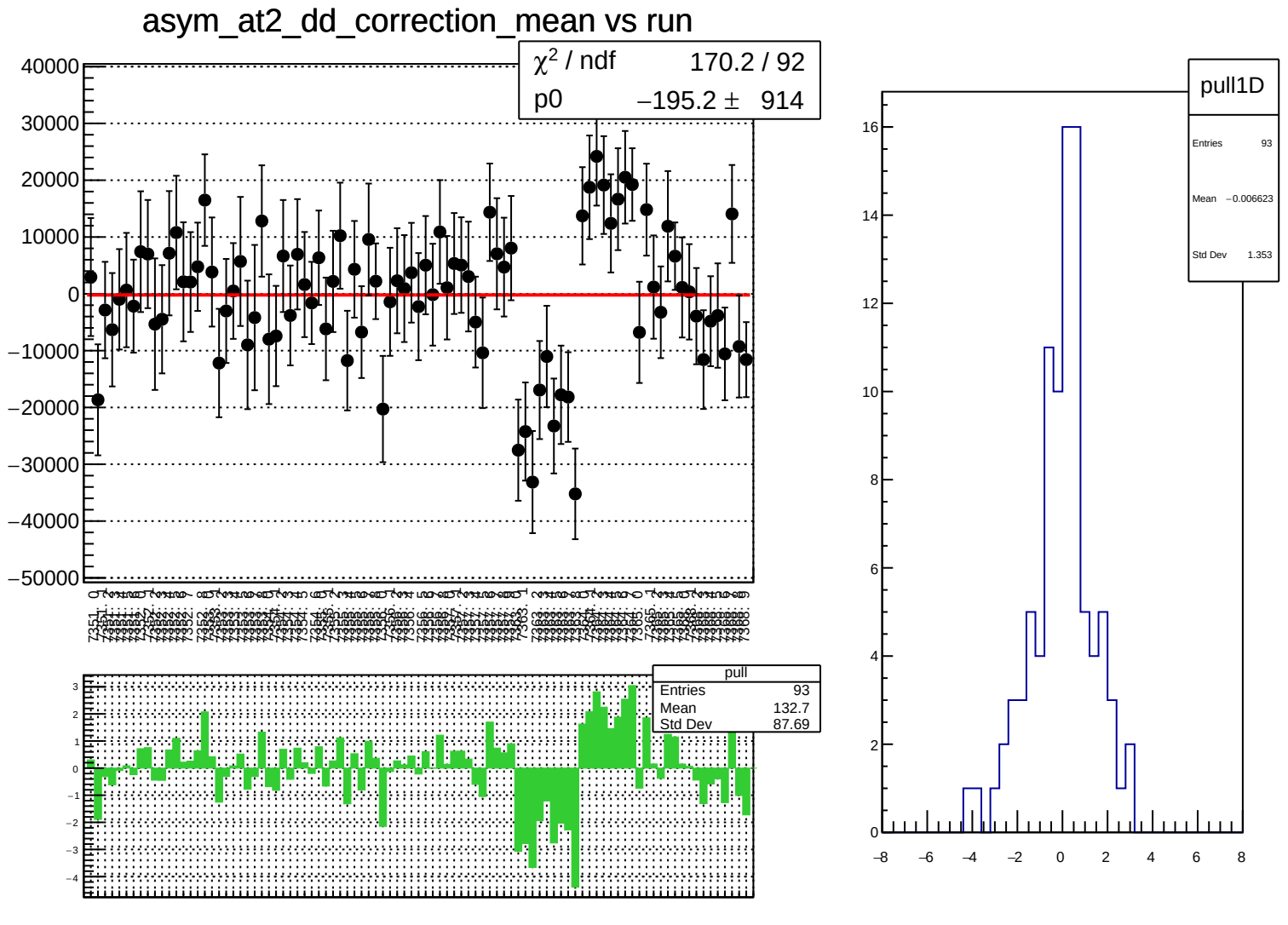

asym_at2_avg_mean vs run
×10^3
χ² / ndf 69.85 / 92
p0 −1.411e+04 ± 1.215e+04
pull
Entries 93
Mean −193.3
Std Dev 236.1
pull1D
Entries 93
Mean −0.0112
Std Dev 0.8666

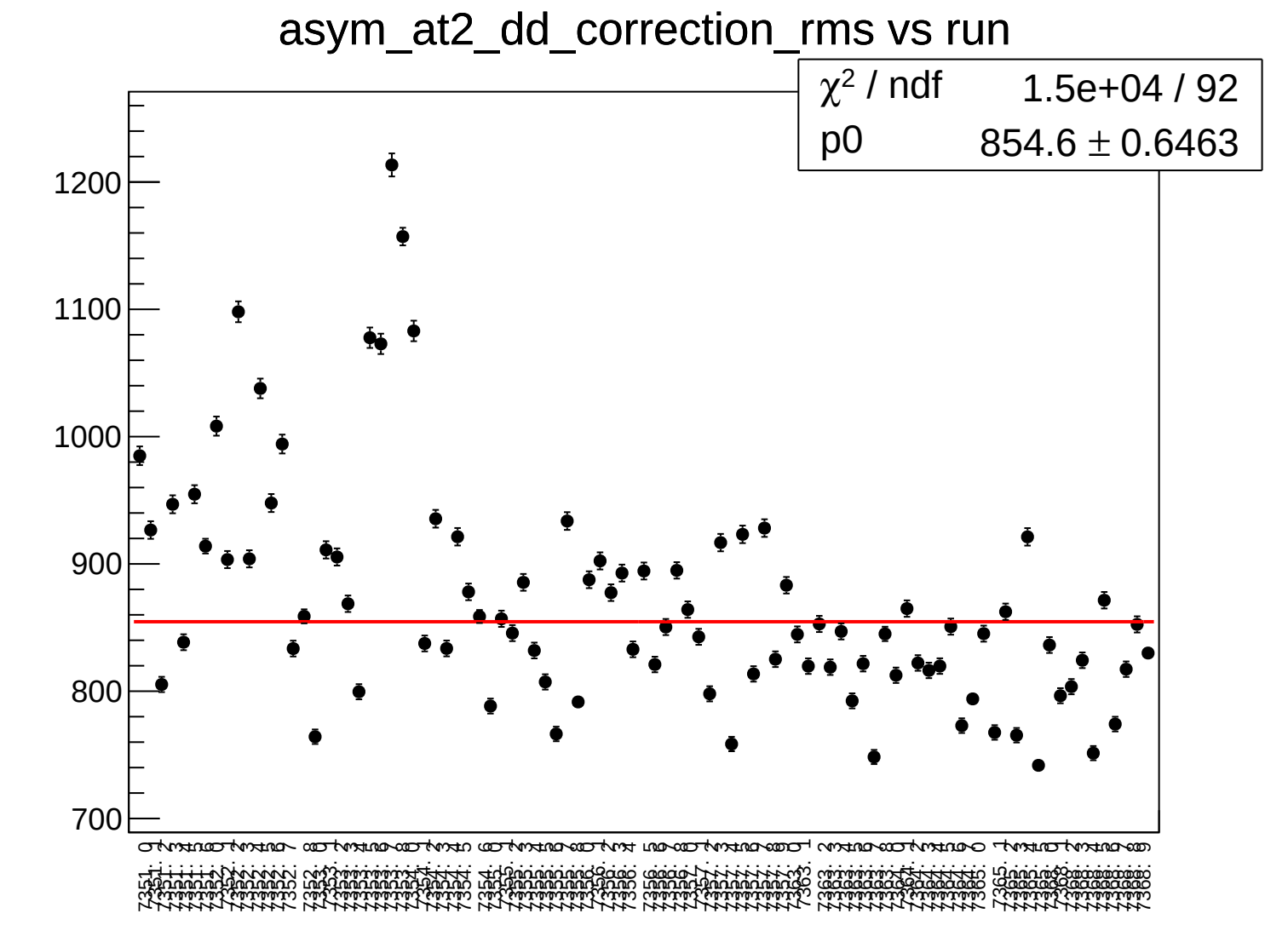

asym_at2_avg_rms vs run
χ² / ndf 1.391e+04 / 92
p0 1.137e+04 ± 8.594
16000
15000
14000
13000
12000
11000
10000

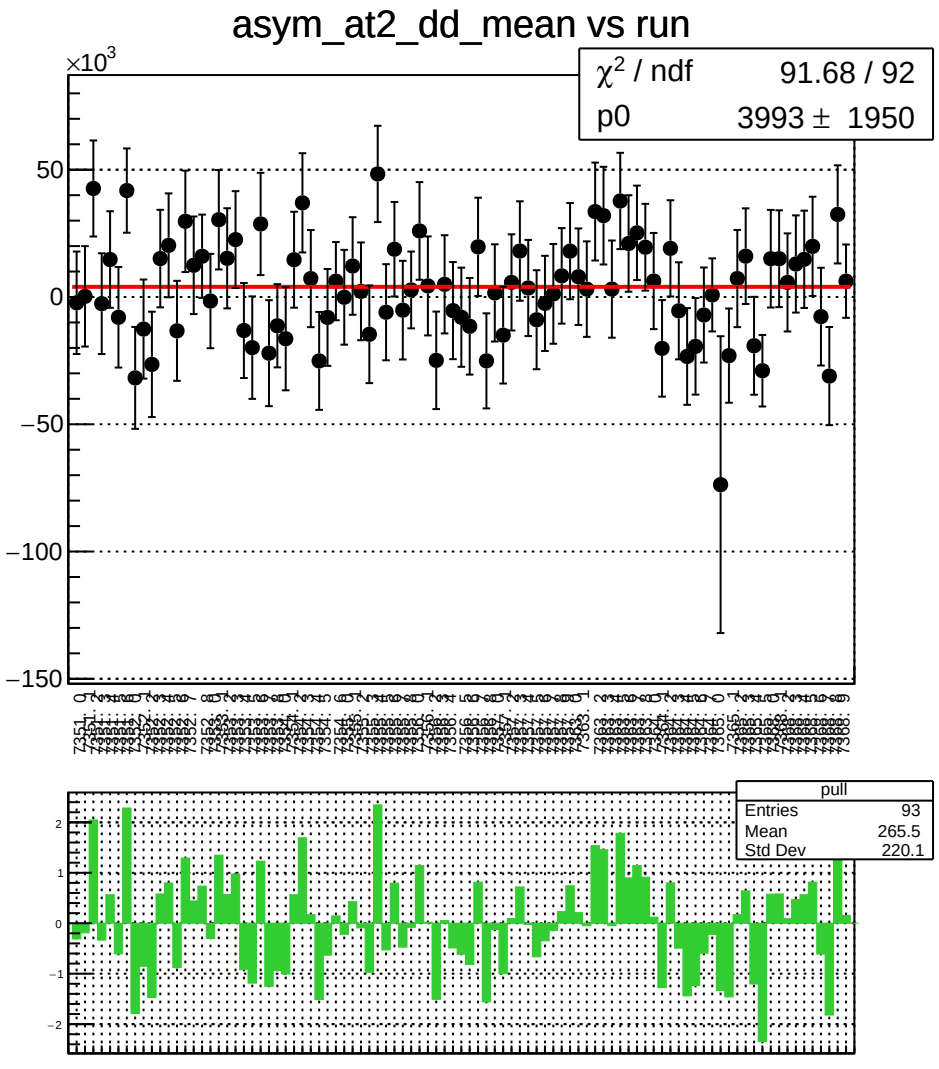

reg_asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 97.12 / 92
p0 3790 ± 1712
50
0
−50
−100
−150
pull
Entries 93
Mean 243.8
Std Dev 199
2
1
0
−1
−2

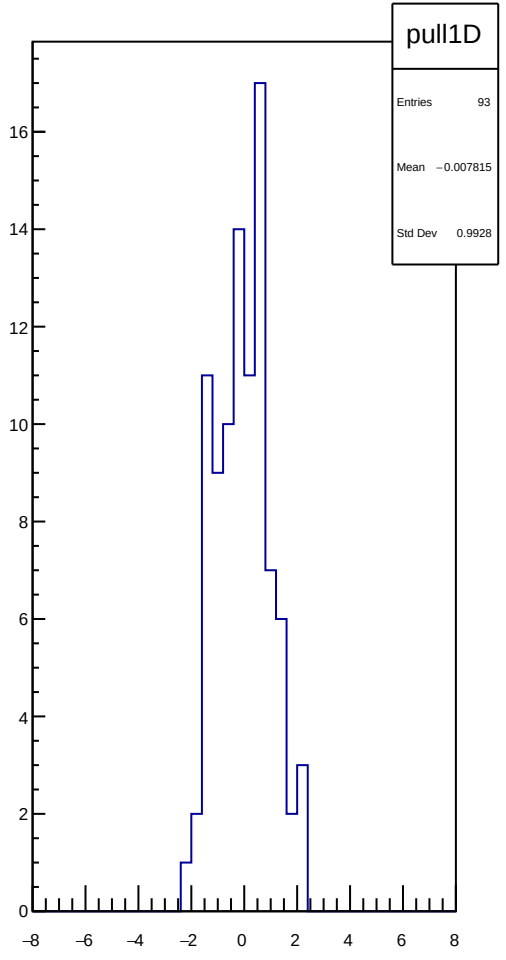

pull1D
Entries 93
Mean −0.009901
Std Dev 1.022
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

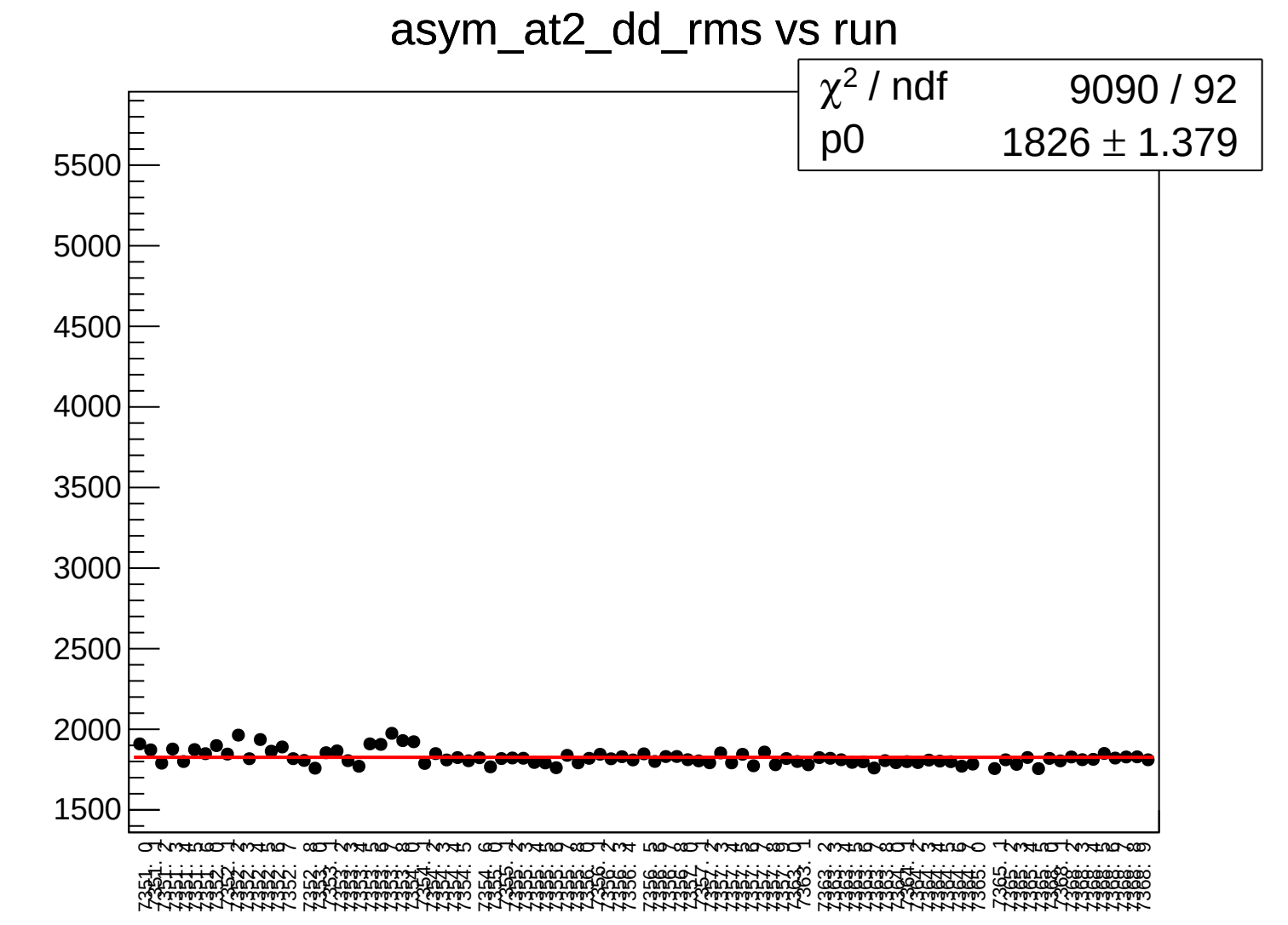

reg_asym_at2_dd_rms vs run
χ^2 / ndf 9250 / 92
p0 1604 ± 1.211
5500
5000
4500
4000
3500
3000
2500
2000
1500

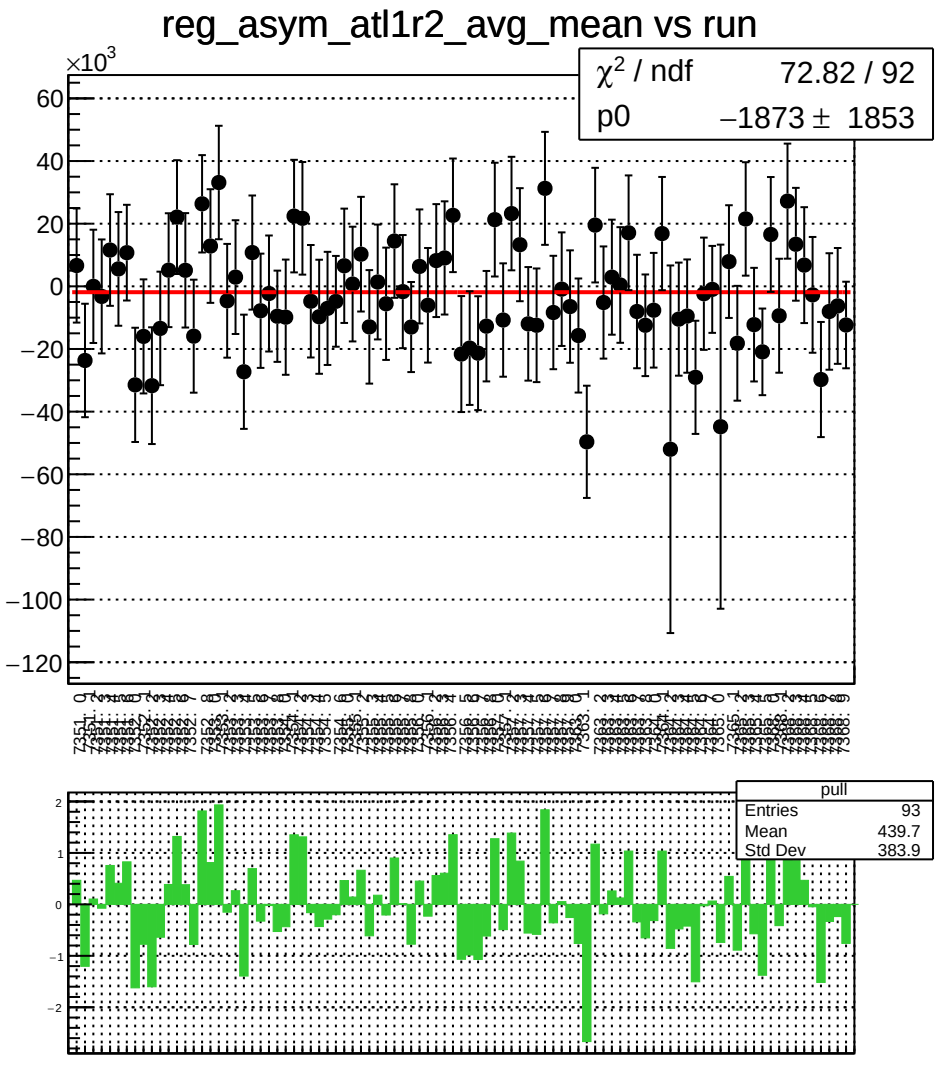

asym_at2_dd_correction_mean vs run
χ² / ndf 170.2 / 92
p0 −195.2 ± 914
pull
Entries 93
Mean 132.7
Std Dev 87.69
pull1D
Entries 93
Mean −0.006623
Std Dev 1.353

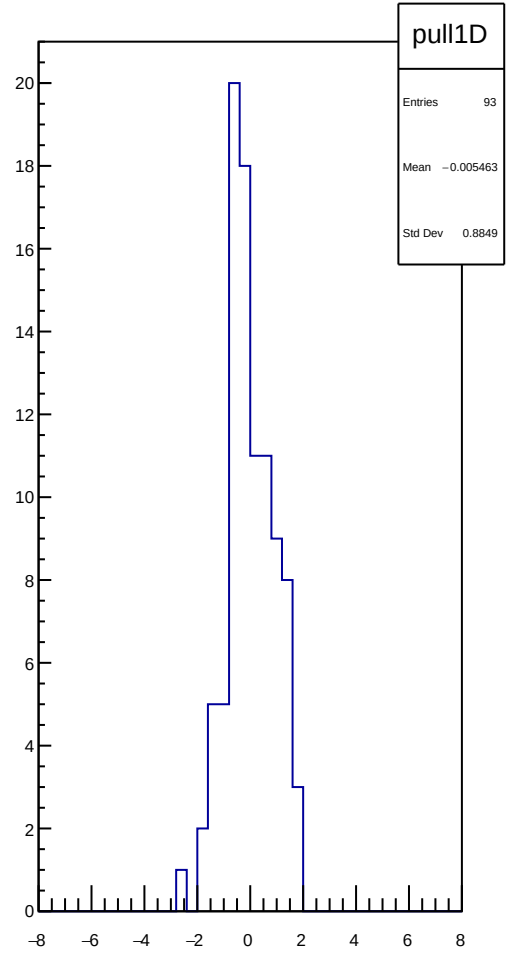

asym_at2_dd_correction_rms vs run
χ² / ndf 1.5e+04 / 92
p0 854.6 ± 0.6463
1200
1100
1000
900
800
700

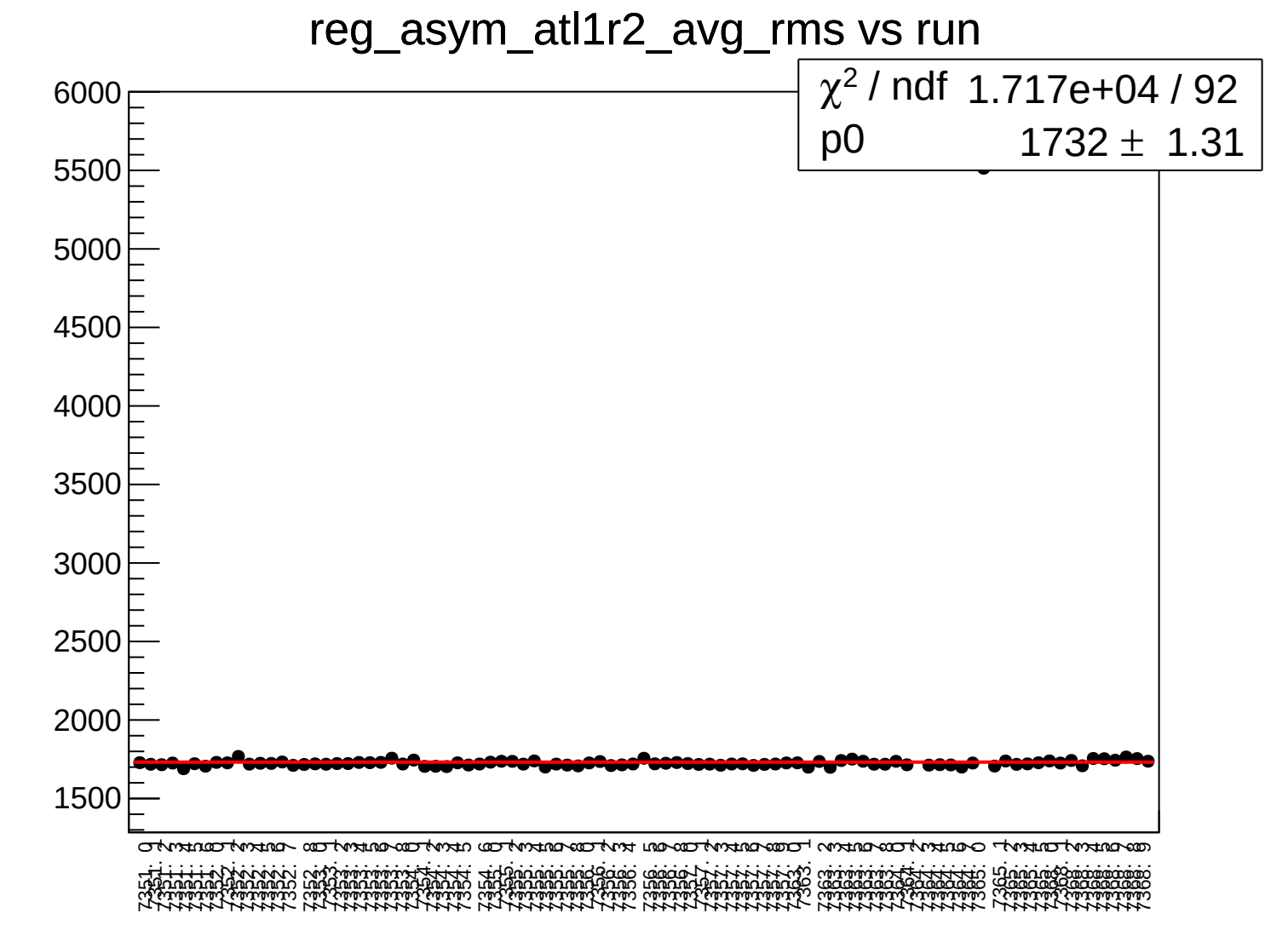

asym_at2_dd_mean vs run
×10^3
χ^2 / ndf 91.68 / 92
p0 3993 ± 1950
50
0
−50
−100
−150
pull
Entries 93
Mean 265.5
Std Dev 220.1
2
1
0
−1
−2

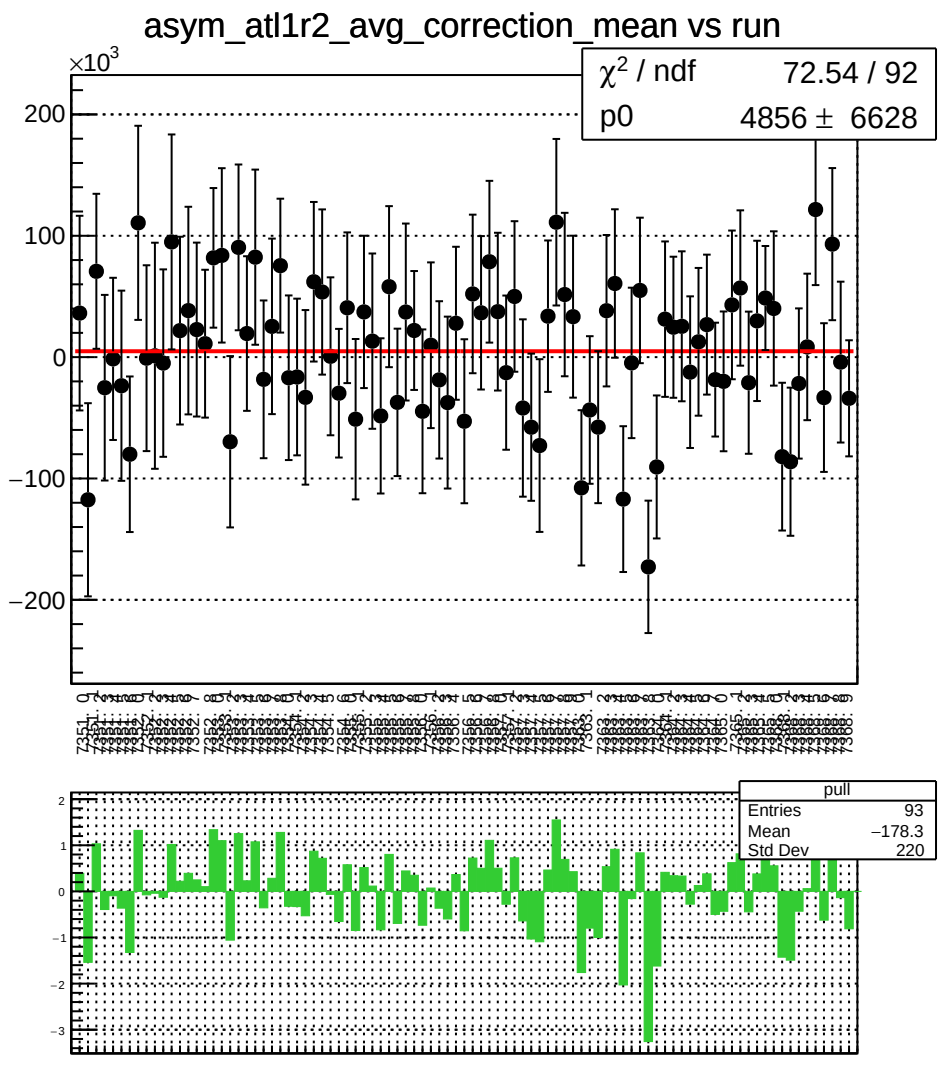

pull1D
Entries 93
Mean −0.007815
Std Dev 0.9928
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

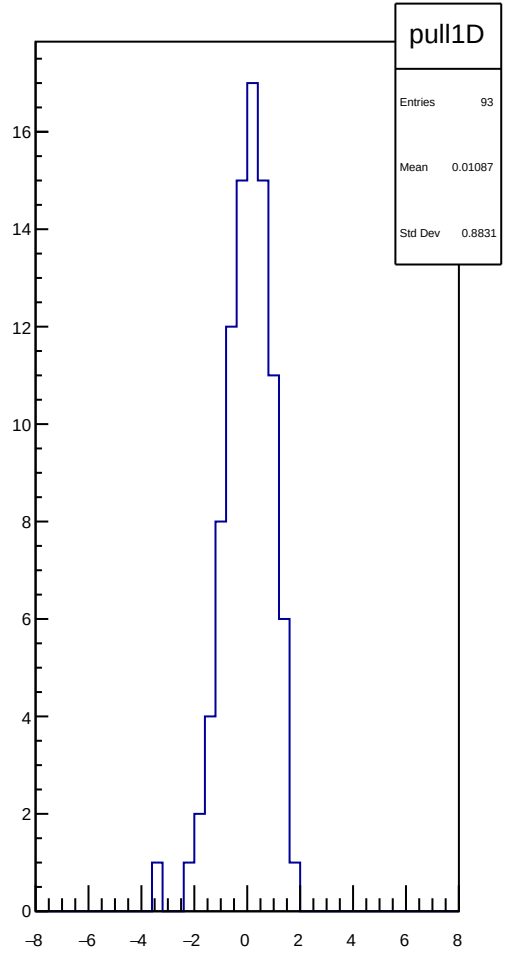

asym_at2_dd_rms vs run
χ^2 / ndf 9090 / 92
p0 1826 ± 1.379
5500
5000
4500
4000
3500
3000
2500
2000
1500

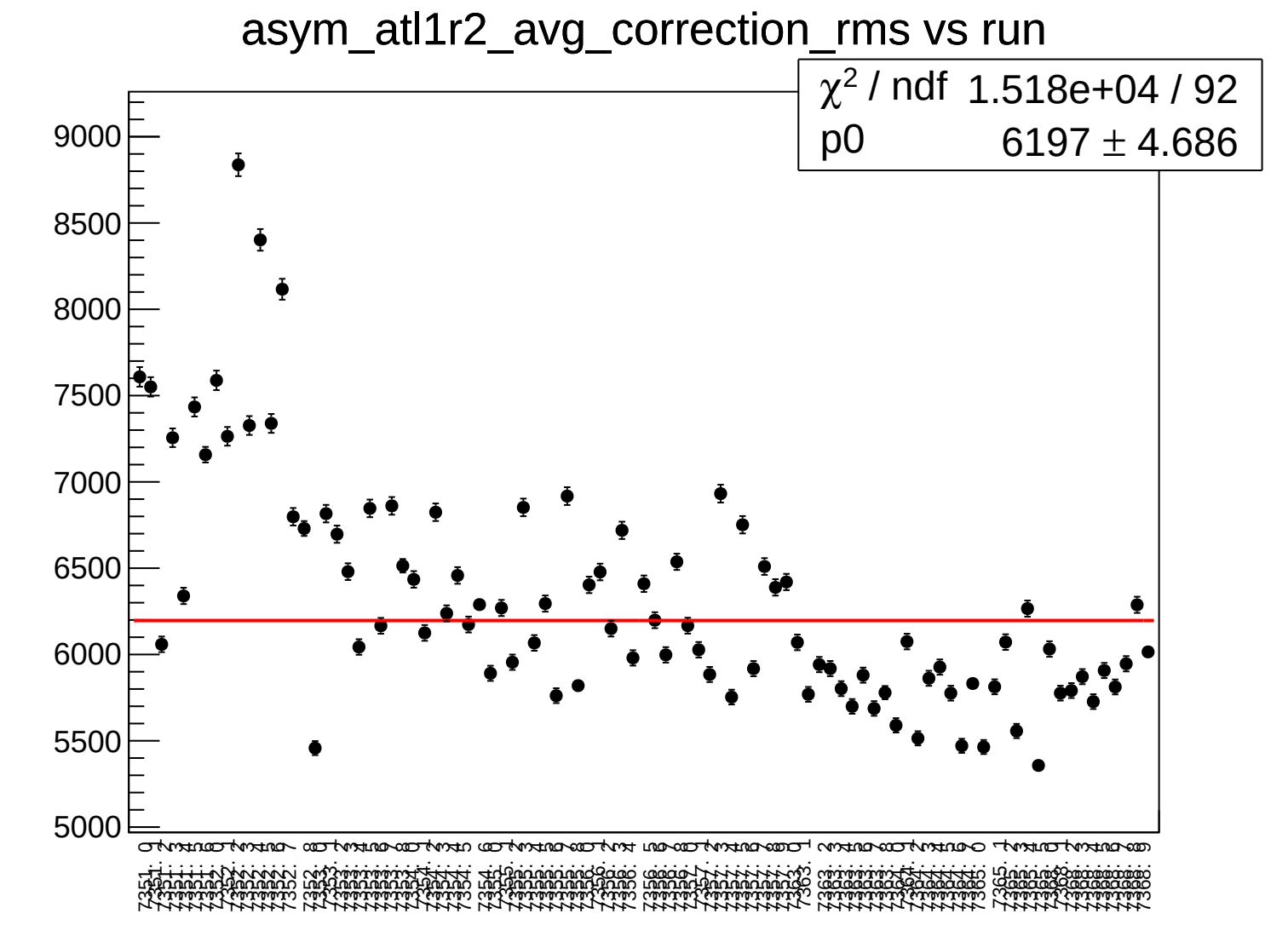

reg_asym_atl1r2_avg_mean vs run
×10^3
χ² / ndf 72.82 / 92
p0 −1873 ± 1853
pull
Entries 93
Mean 439.7
Std Dev 383.9

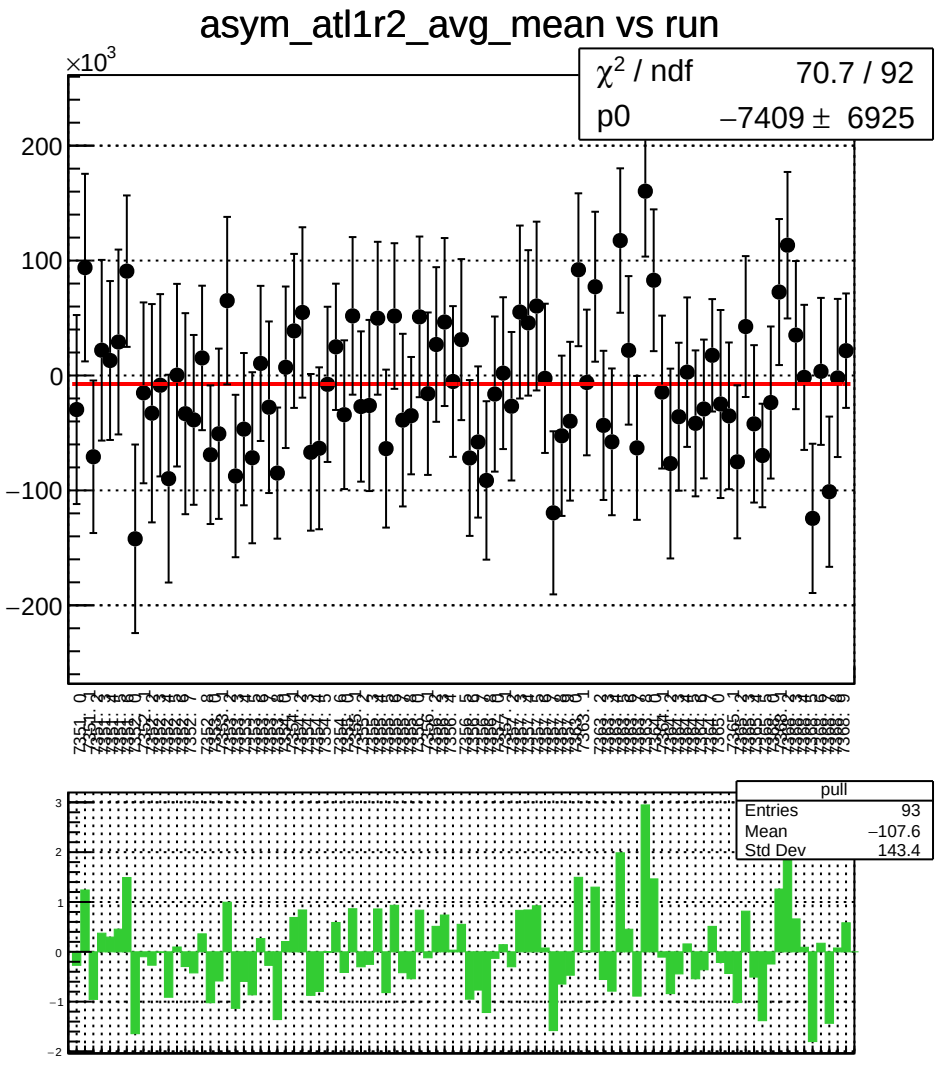

pull1D
Entries 93
Mean −0.005463
Std Dev 0.8849

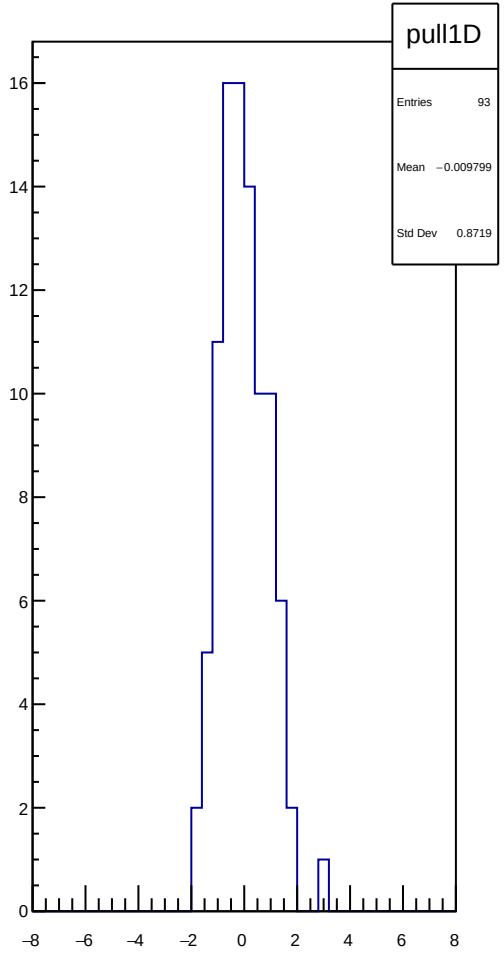

reg_asym_atl1r2_avg_rms vs run
χ^2 / ndf 1.717e+04 / 92
p0 1732 ± 1.31
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

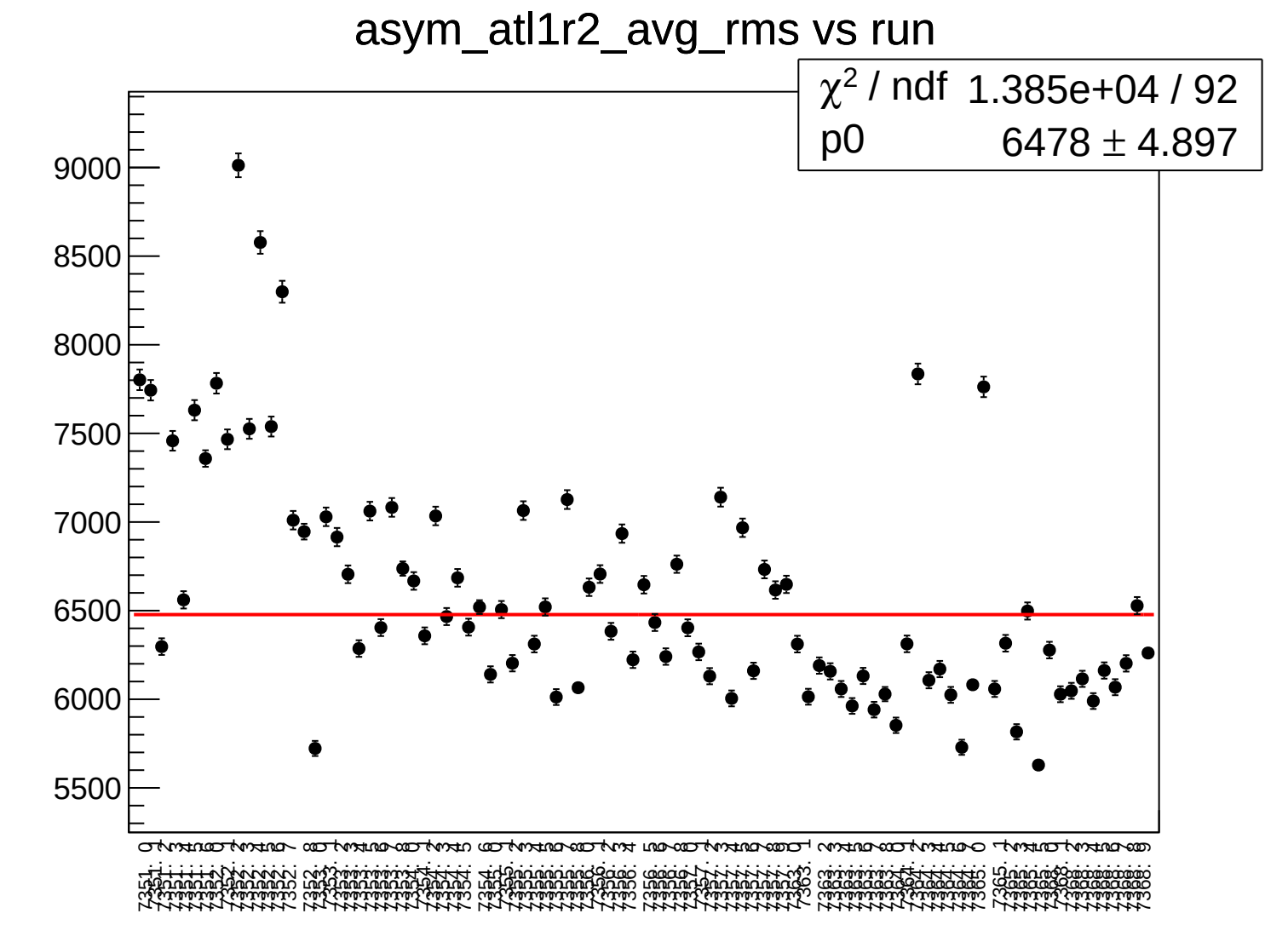

asym_atl1r2_avg_correction_mean vs run
×10^3
χ² / ndf 72.54 / 92
p0 4856 ± 6628
200
100
0
−100
−200
pull
Entries 93
Mean −178.3
Std Dev 220
2
1
0
−1
−2
−3

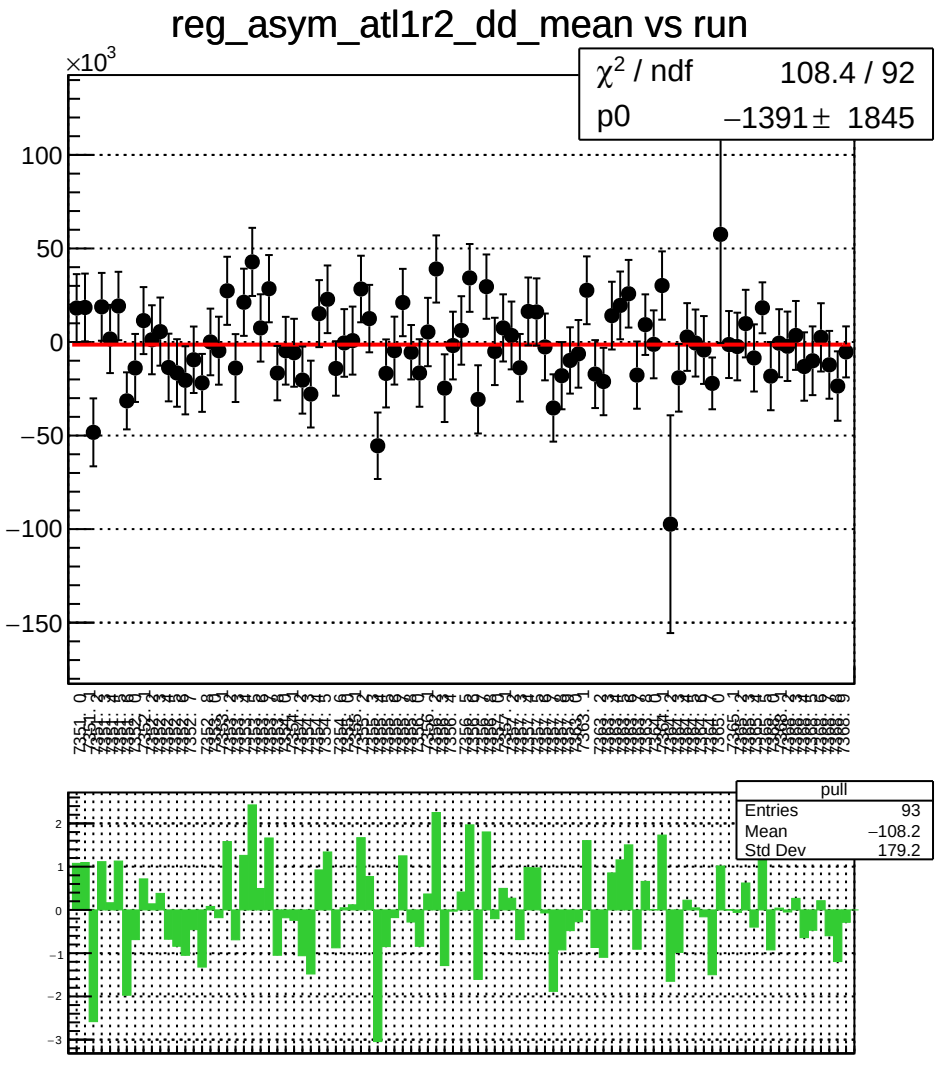

pull1D
Entries 93
Mean 0.01087
Std Dev 0.8831
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

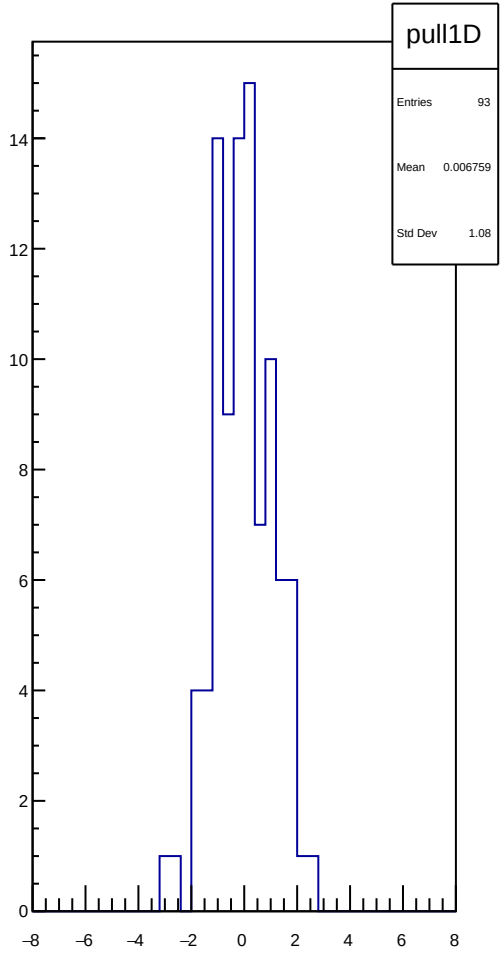

asym_atl1r2_avg_correction_rms vs run
χ² / ndf 1.518e+04 / 92
p0 6197 ± 4.686
9000
8500
8000
7500
7000
6500
6000
5500
5000

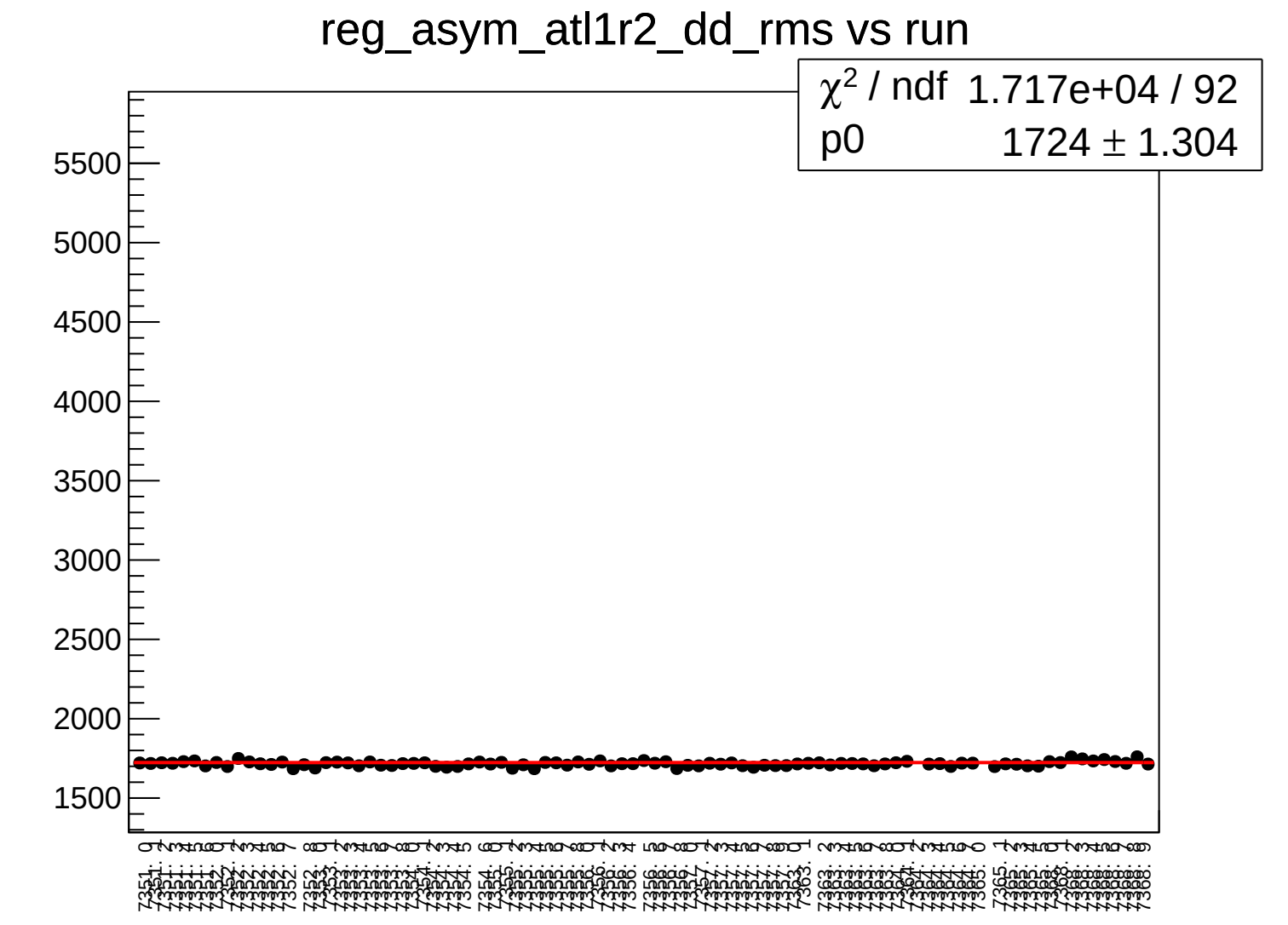

asym_atl1r2_avg_mean vs run
χ² / ndf 70.7 / 92
p0 −7409 ± 6925
×10³
200
100
0
−100
−200
pull
Entries 93
Mean −107.6
Std Dev 143.4
3
2
1
0
−1
−2

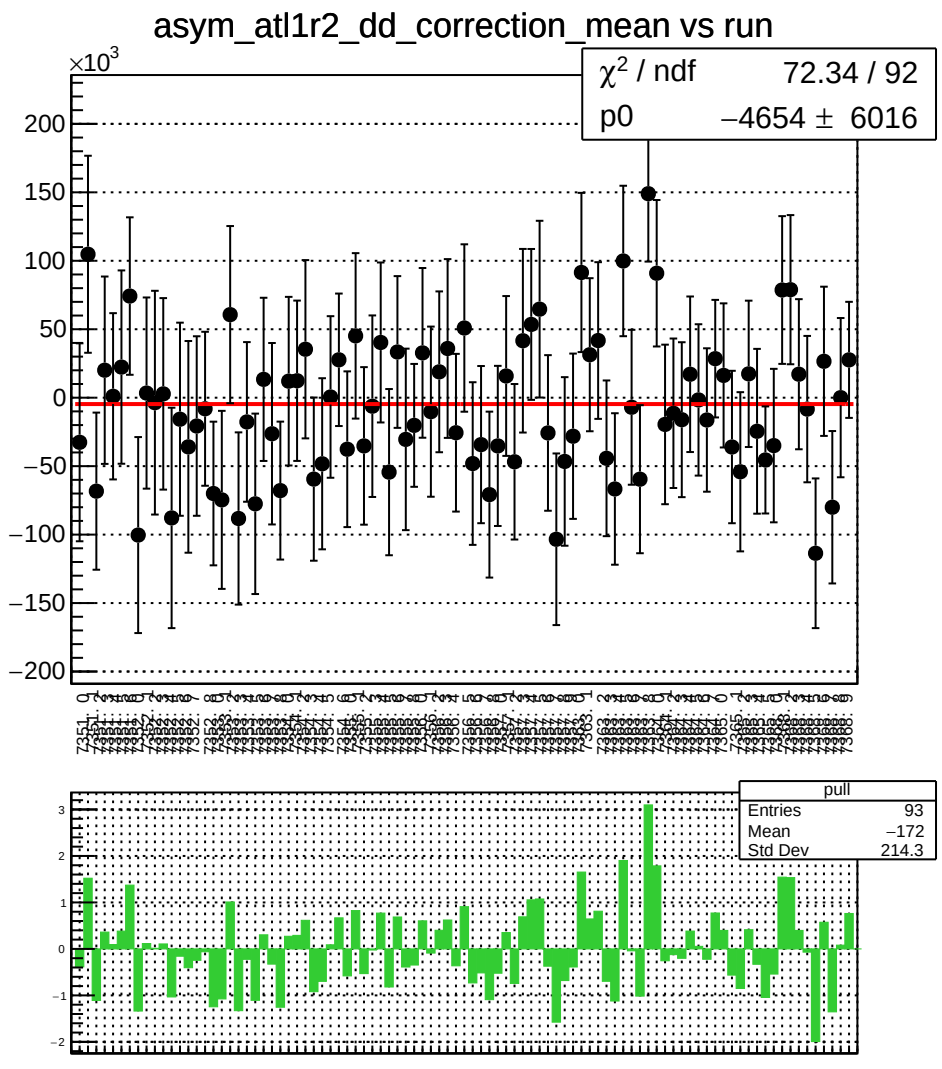

pull1D
Entries 93
Mean −0.009799
Std Dev 0.8719
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

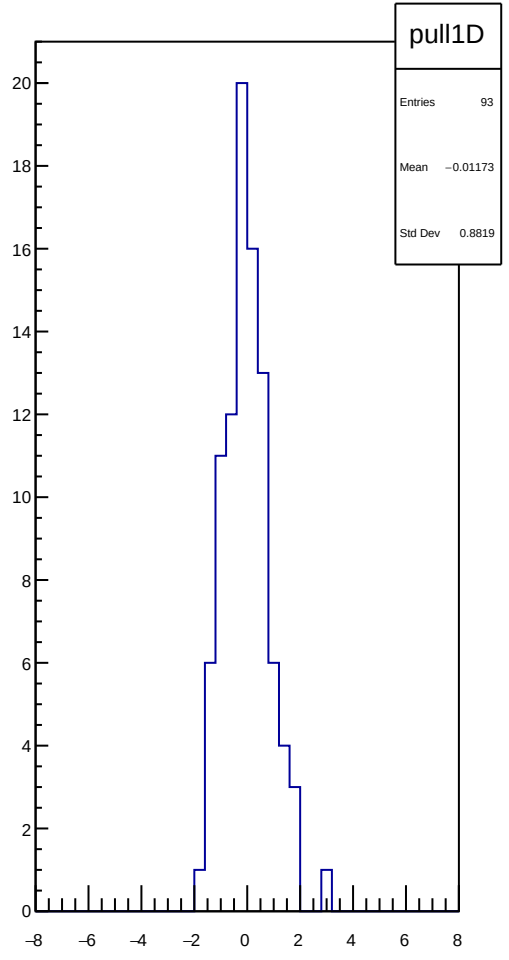

asym_atl1r2_avg_rms vs run
χ^2 / ndf 1.385e+04 / 92
p0 6478 ± 4.897
9000
8500
8000
7500
7000
6500
6000
5500

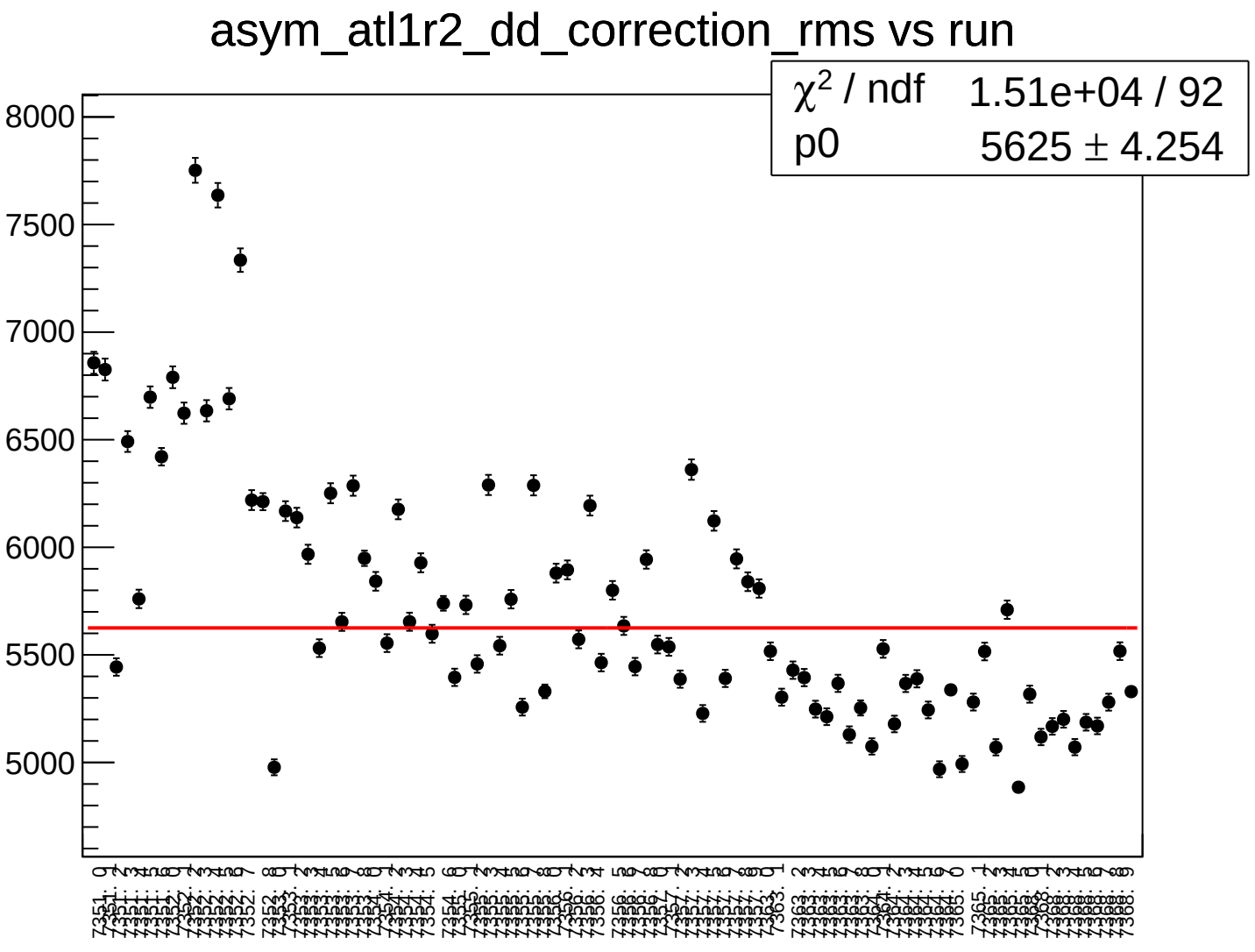

reg_asym_atl1r2_dd_mean vs run
×10^3
χ^2 / ndf 108.4 / 92
p0 −1391 ± 1845
100
50
0
−50
−100
−150
pull
Entries 93
Mean −108.2
Std Dev 179.2
2
1
0
−1
−2
−3

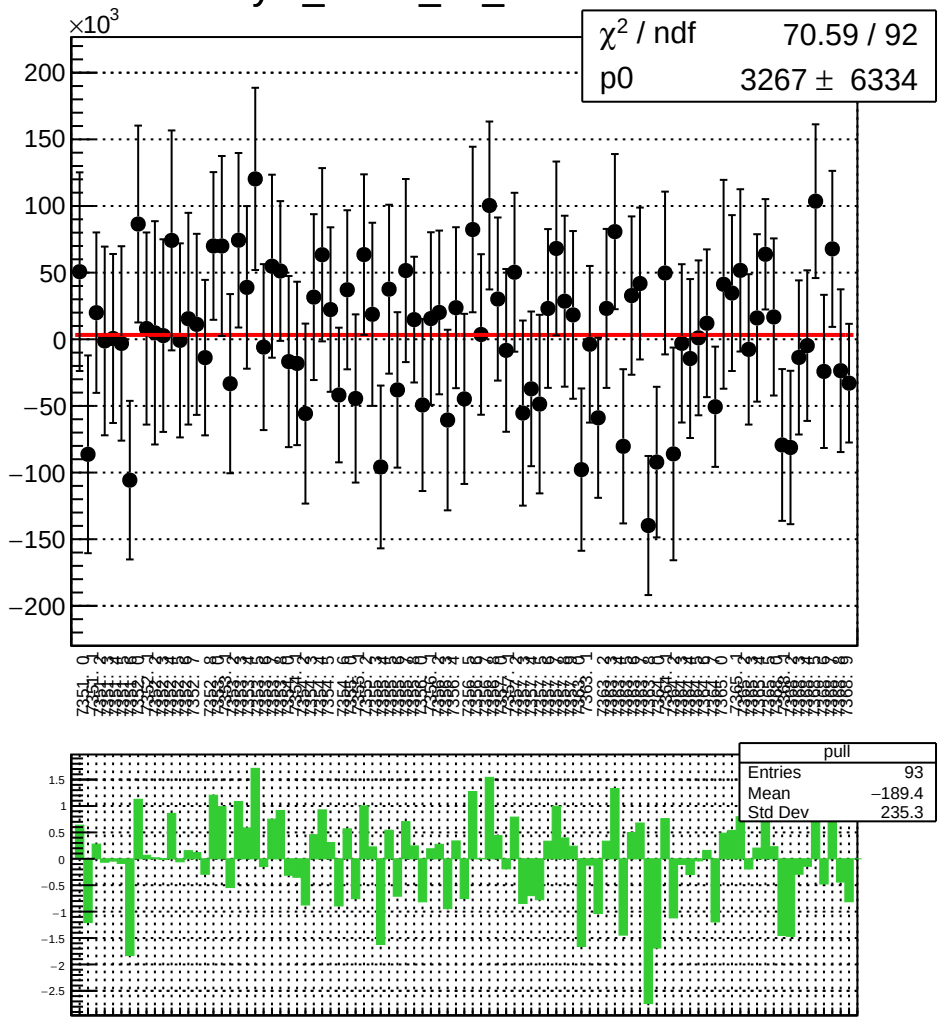

pull1D
Entries 93
Mean 0.006759
Std Dev 1.08
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

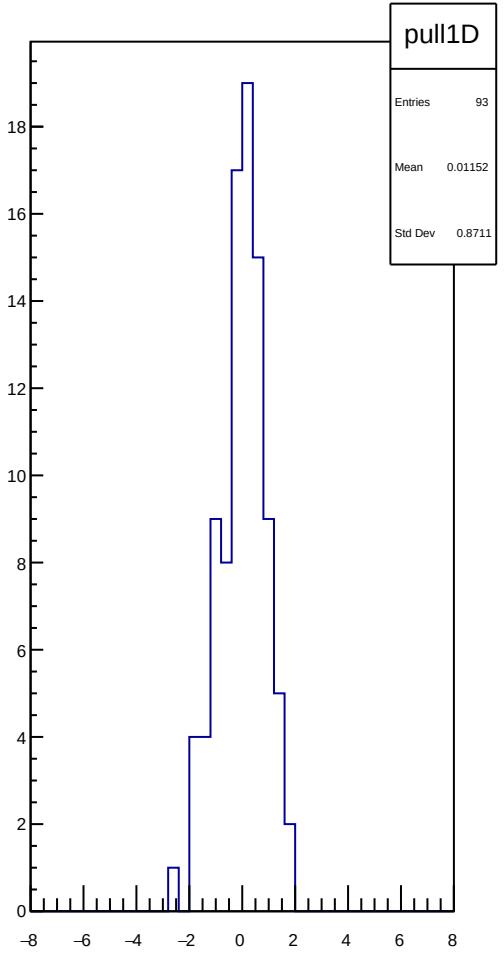

reg_asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.717e+04 / 92
p0 1724 ± 1.304
5500
5000
4500
4000
3500
3000
2500
2000
1500

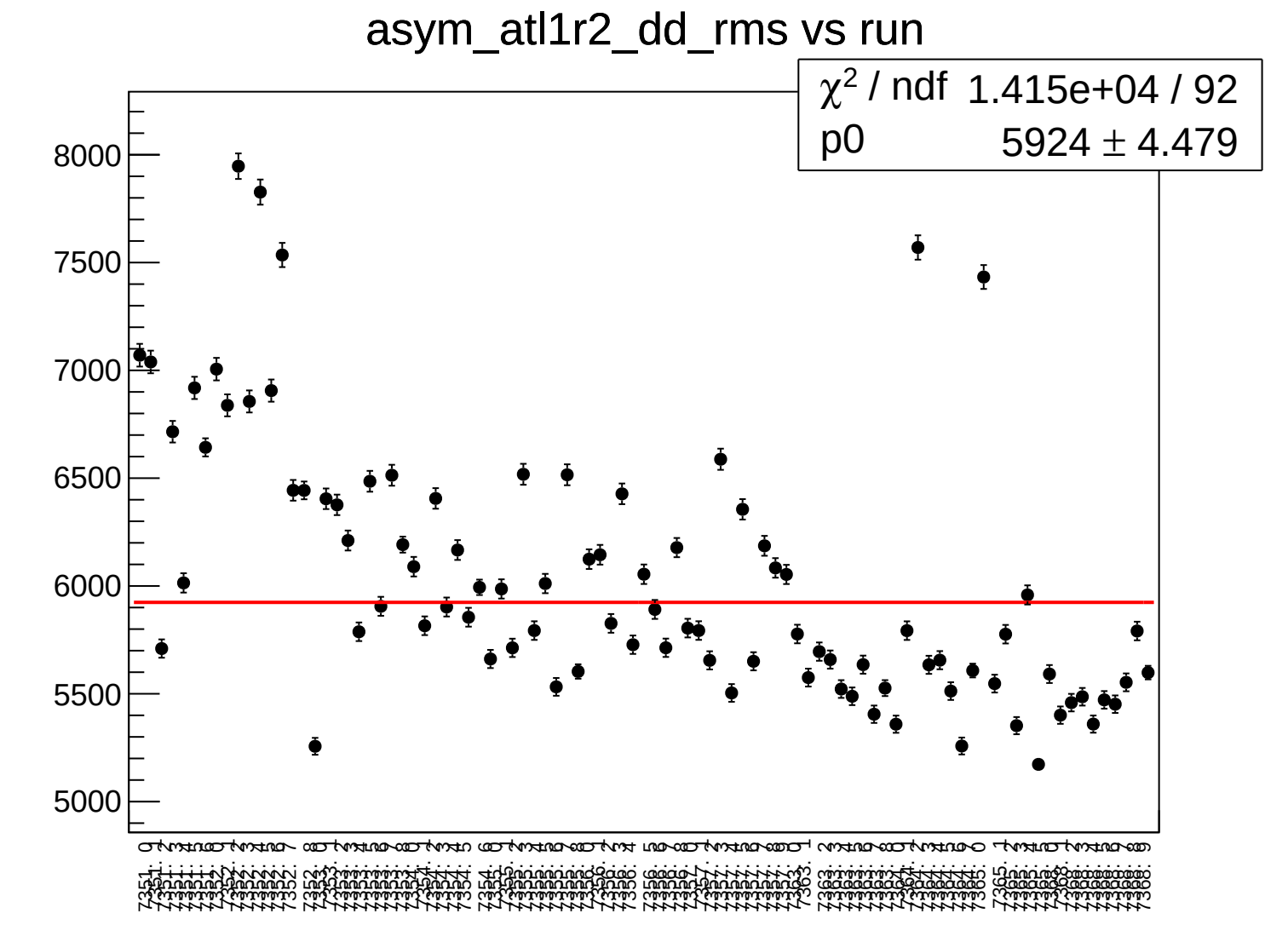

asym_atl1r2_dd_correction_mean vs run
χ² / ndf 72.34 / 92
p0 −4654 ± 6016
×10³
pull
Entries 93
Mean −172
Std Dev 214.3

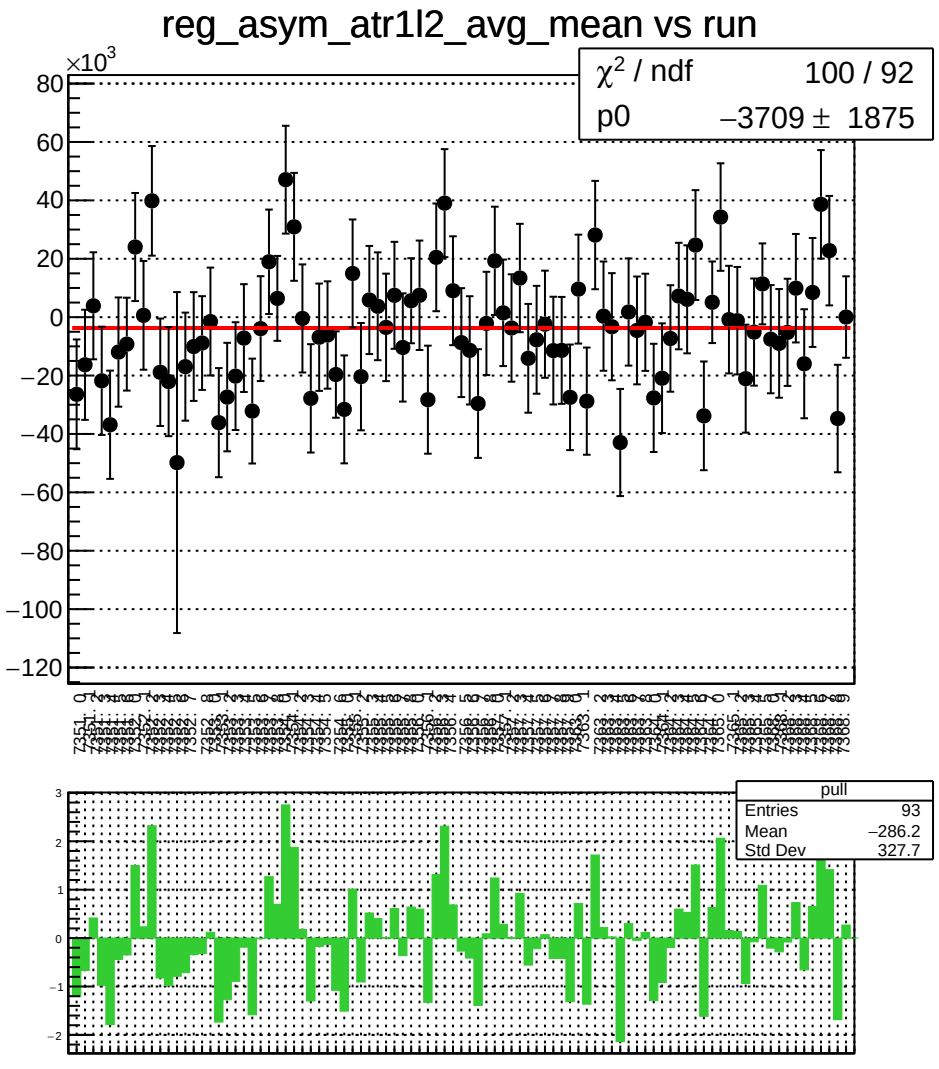

pull1D
Entries 93
Mean −0.01173
Std Dev 0.8819

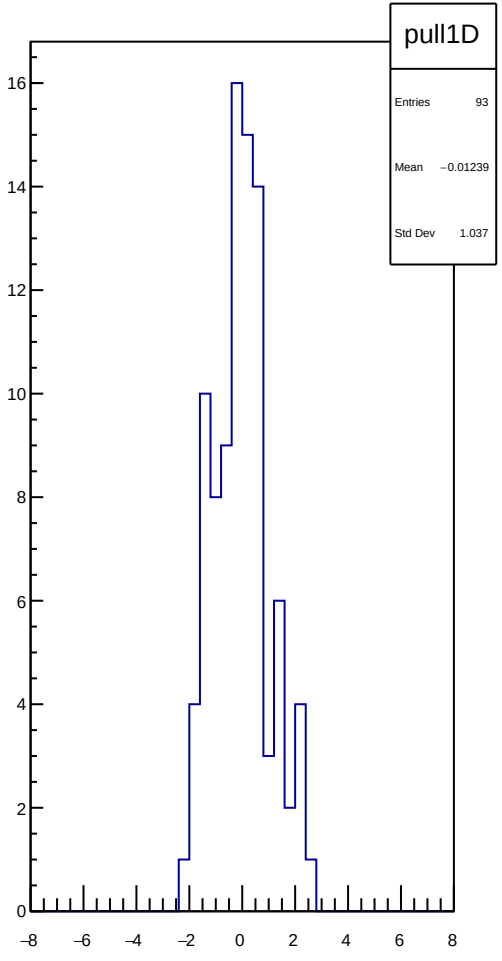

asym_atl1r2_dd_correction_rms vs run
χ² / ndf 1.51e+04 / 92
p0 5625 ± 4.254
8000
7500
7000
6500
6000
5500
5000

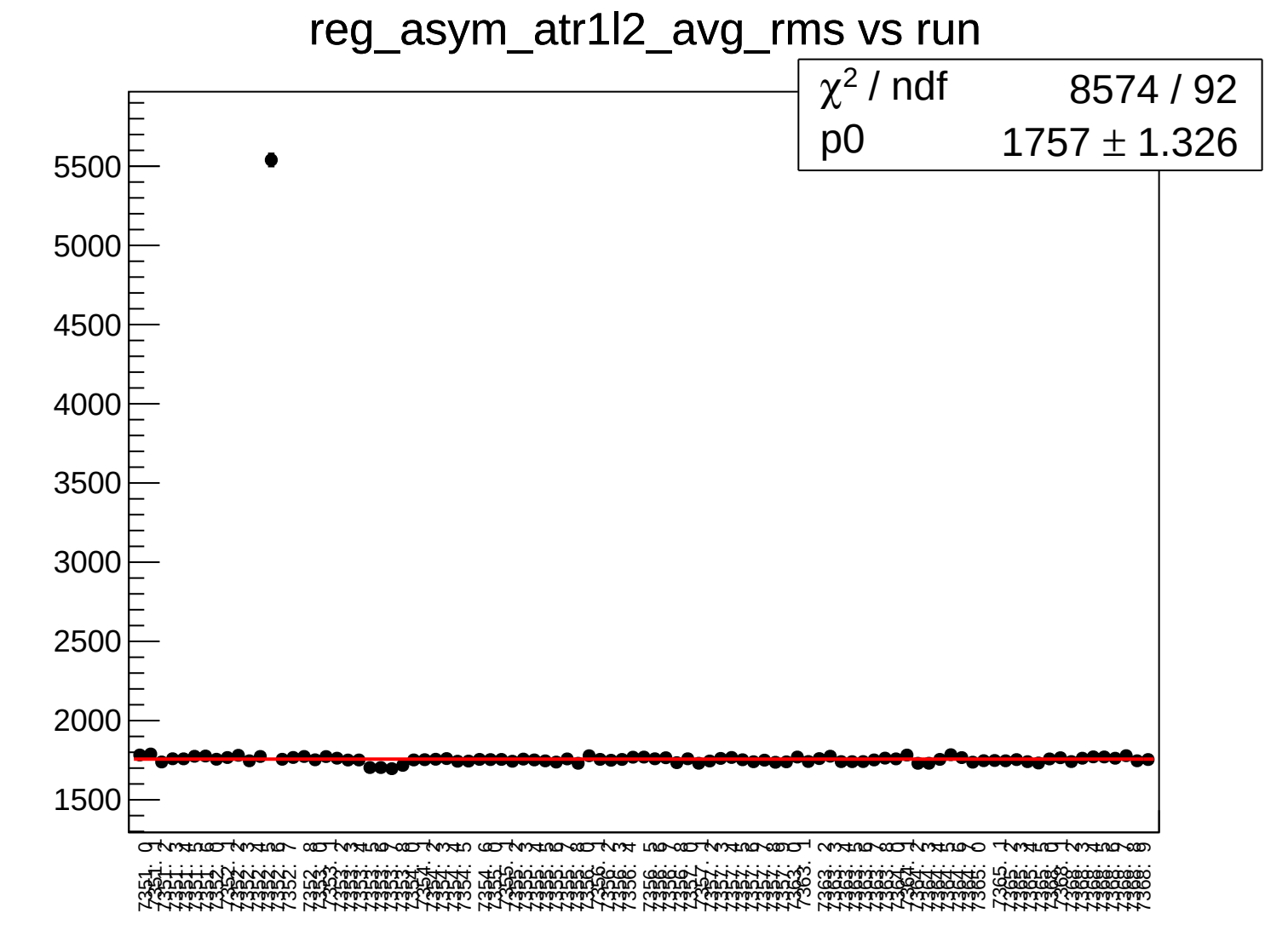

asym_atl1r2_dd_mean vs run
×10^3
χ² / ndf 70.59 / 92
p0 3267 ± 6334
pull
Entries 93
Mean −189.4
Std Dev 235.3

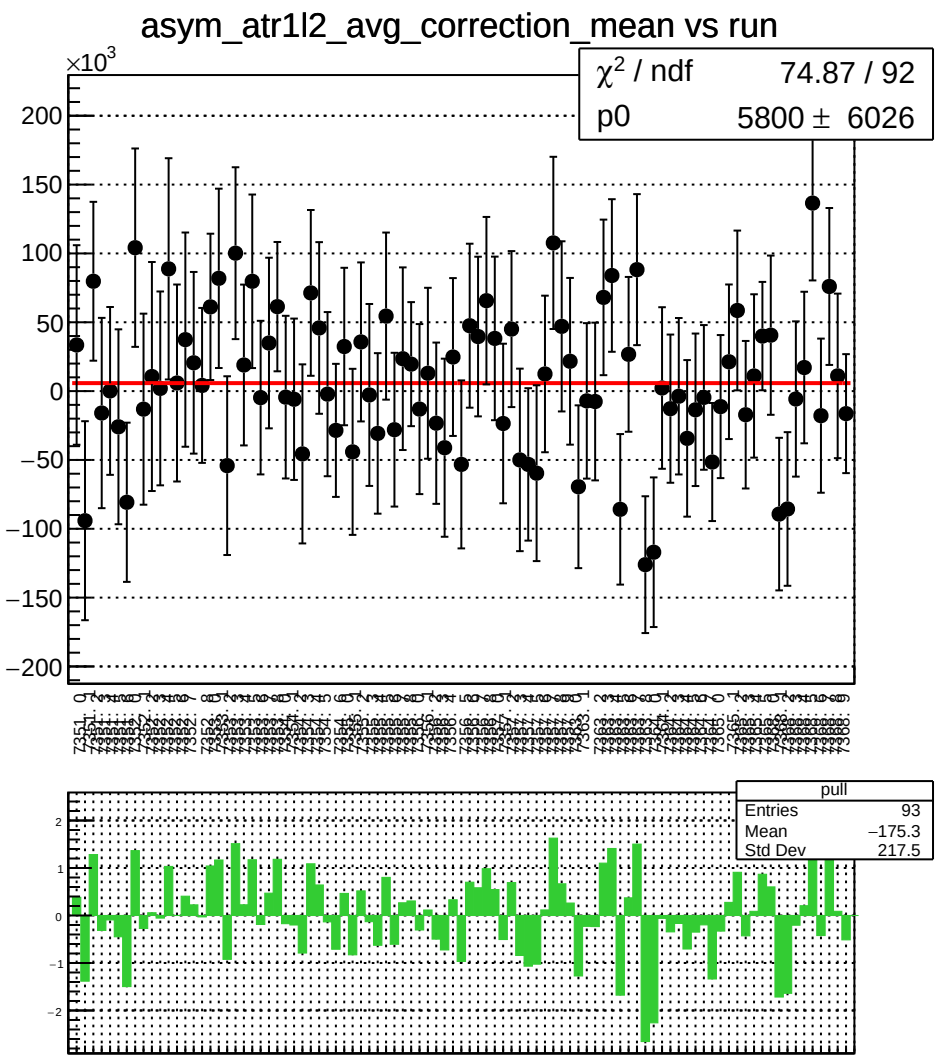

pull1D
Entries 93
Mean 0.01152
Std Dev 0.8711

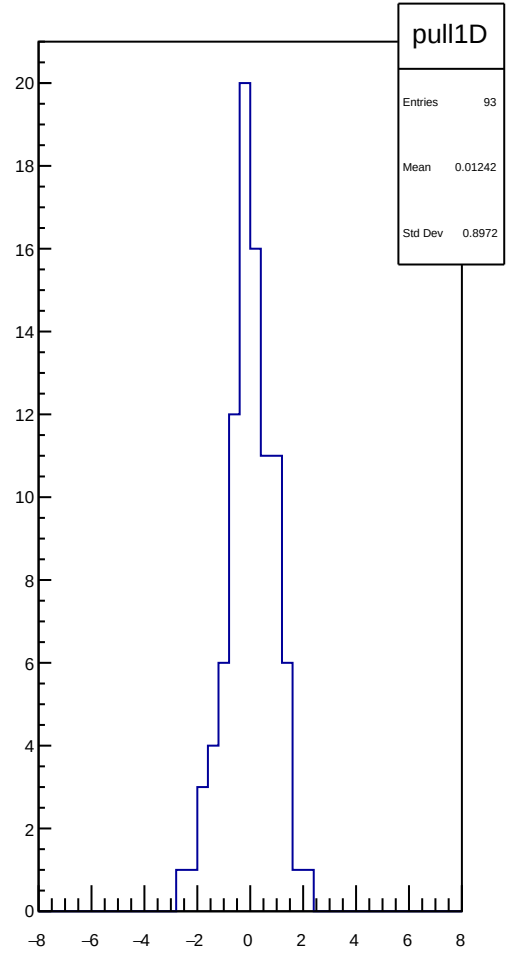

asym_atl1r2_dd_rms vs run
χ^2 / ndf 1.415e+04 / 92
p0 5924 ± 4.479
8000
7500
7000
6500
6000
5500
5000

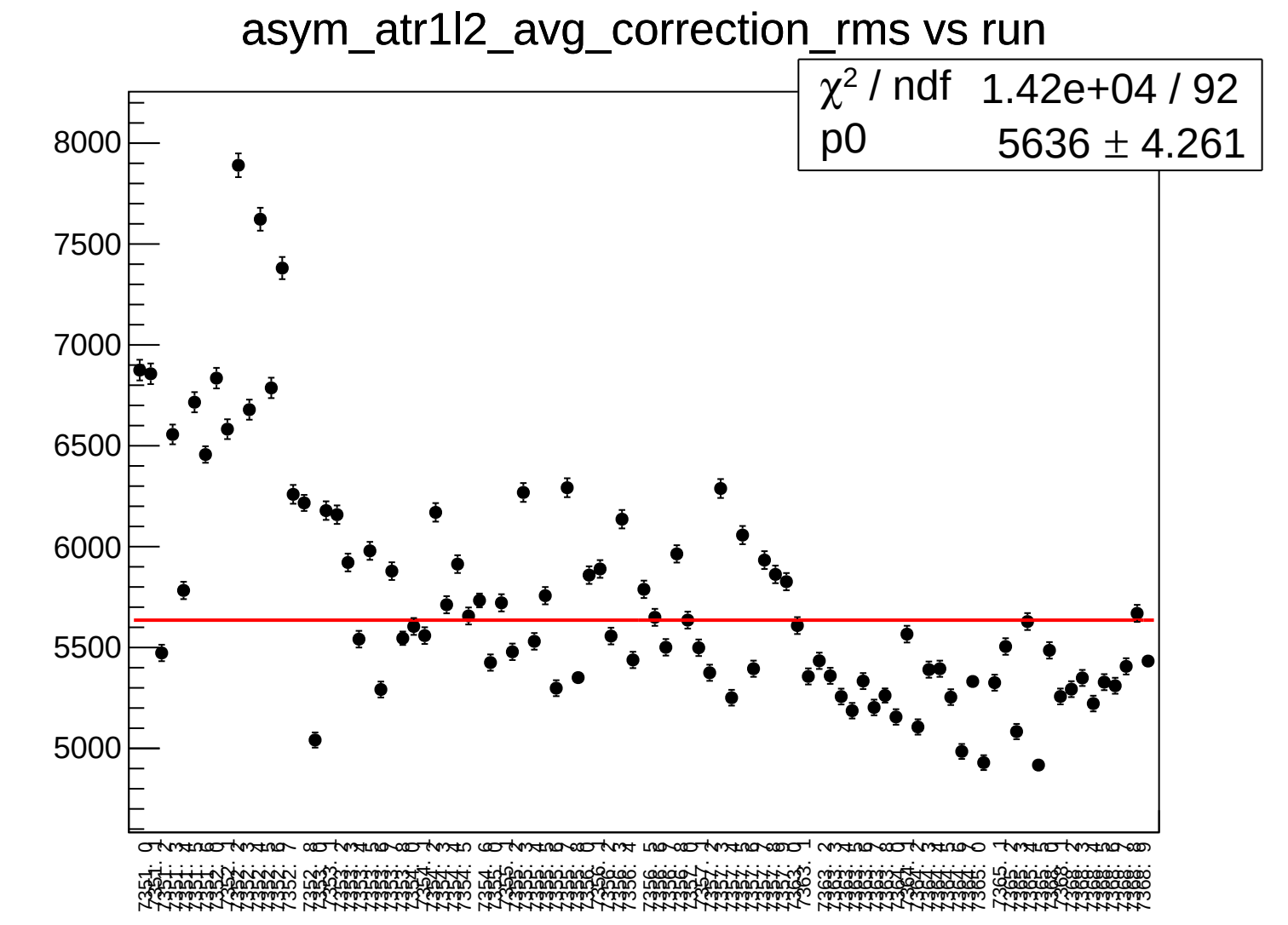

reg_asym_atr1l2_avg_mean vs run
×10^3
χ^2 / ndf 100 / 92
p0 −3709 ± 1875
pull
Entries 93
Mean −286.2
Std Dev 327.7

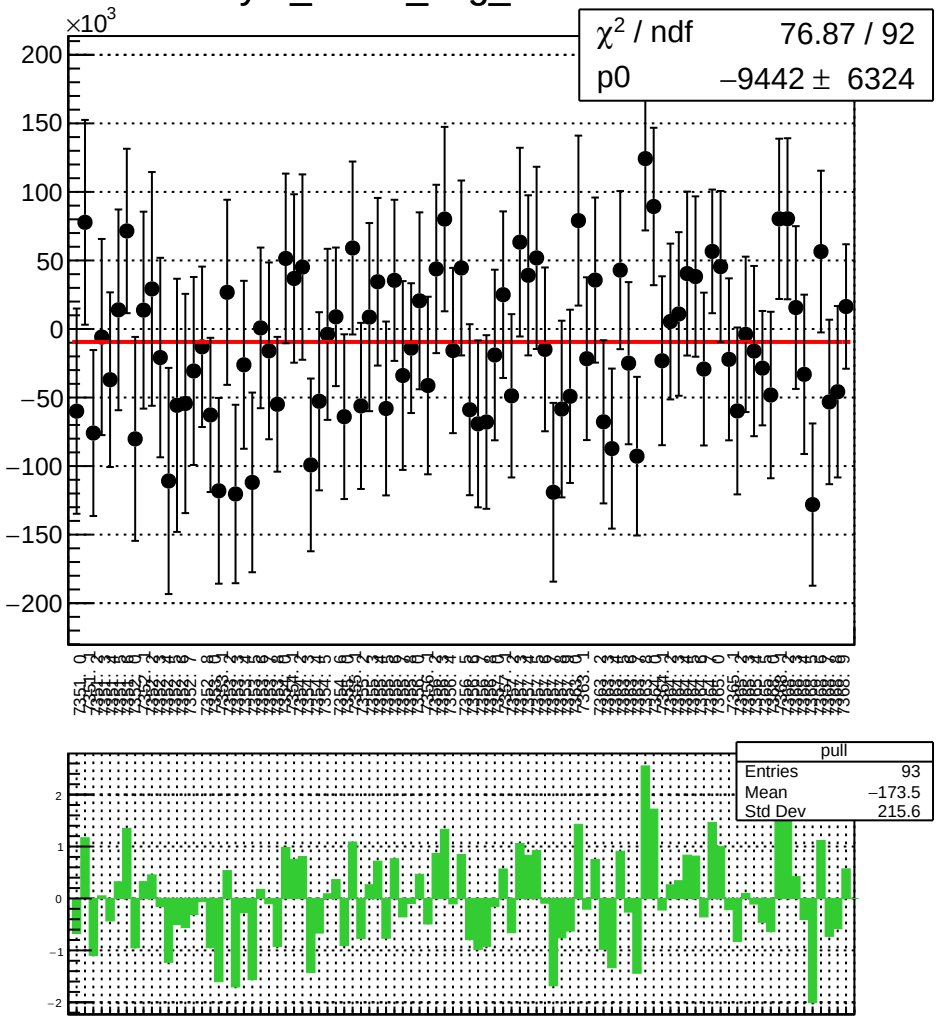

pull1D
Entries 93
Mean −0.01239
Std Dev 1.037

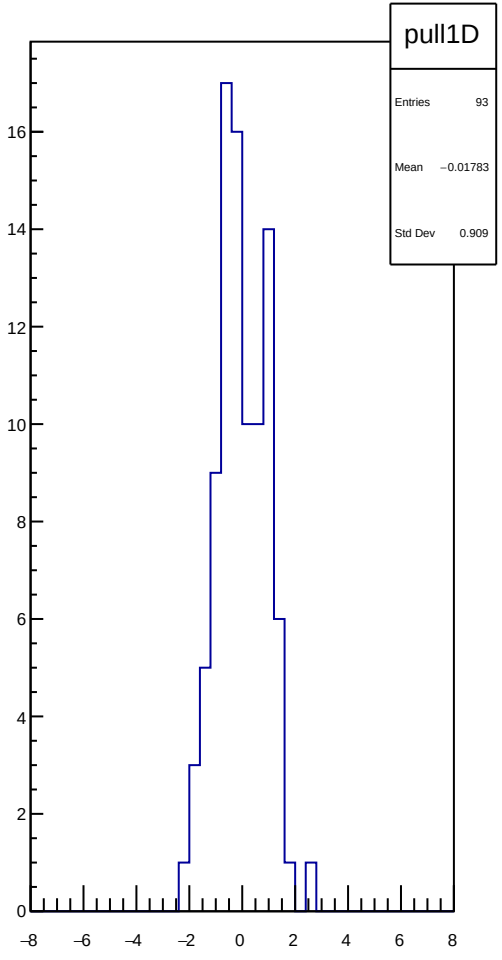

reg_asym_atr1l2_avg_rms vs run
χ^2 / ndf 8574 / 92
p0 1757 ± 1.326
5500
5000
4500
4000
3500
3000
2500
2000
1500

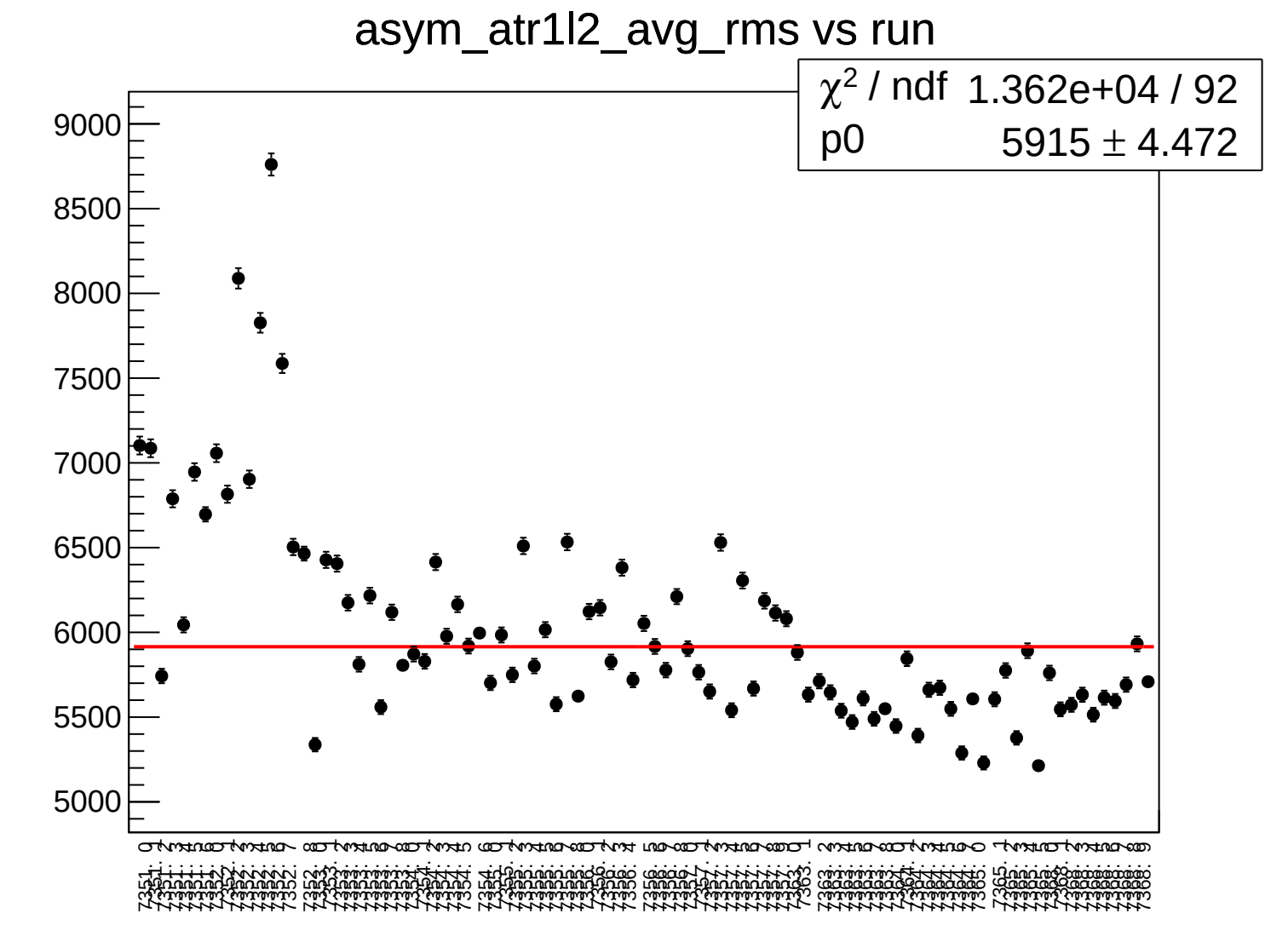

asym_atr1l2_avg_correction_mean vs run
×10^3
χ² / ndf 74.87 / 92
p0 5800 ± 6026
pull
Entries 93
Mean −175.3
Std Dev 217.5

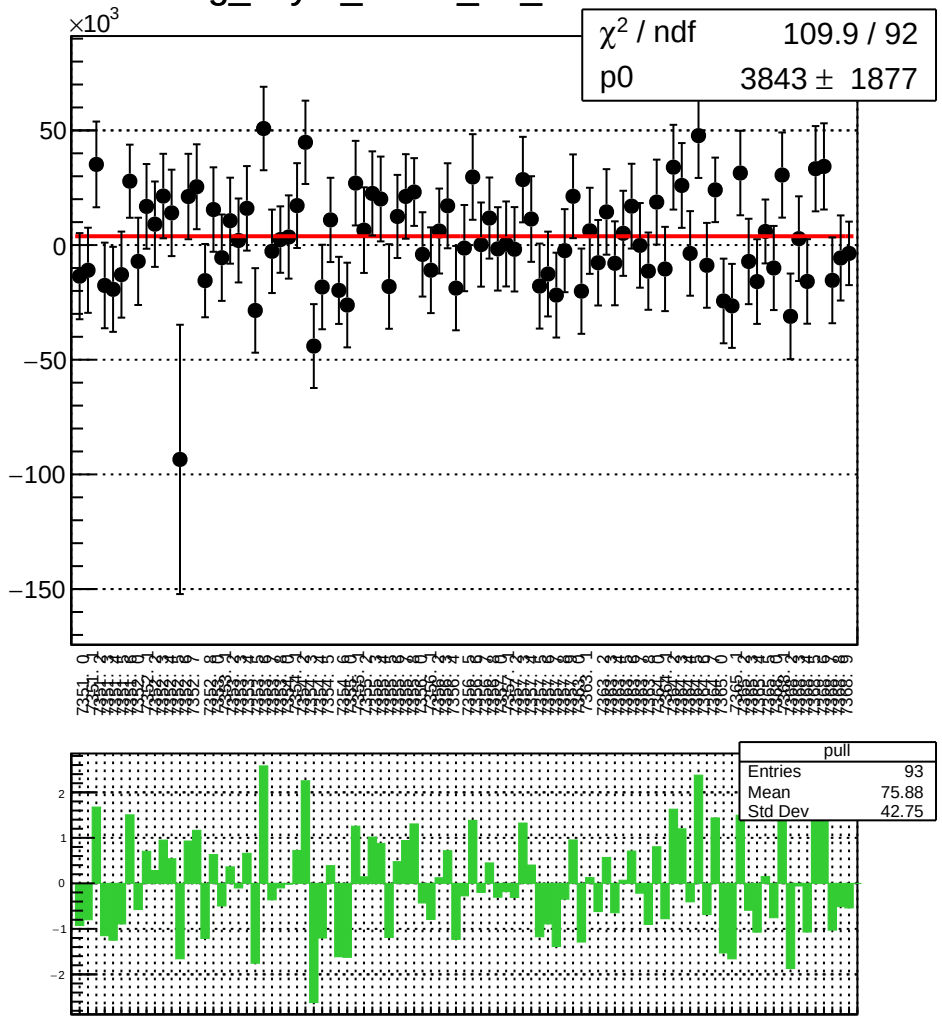

pull1D
Entries 93
Mean 0.01242
Std Dev 0.8972

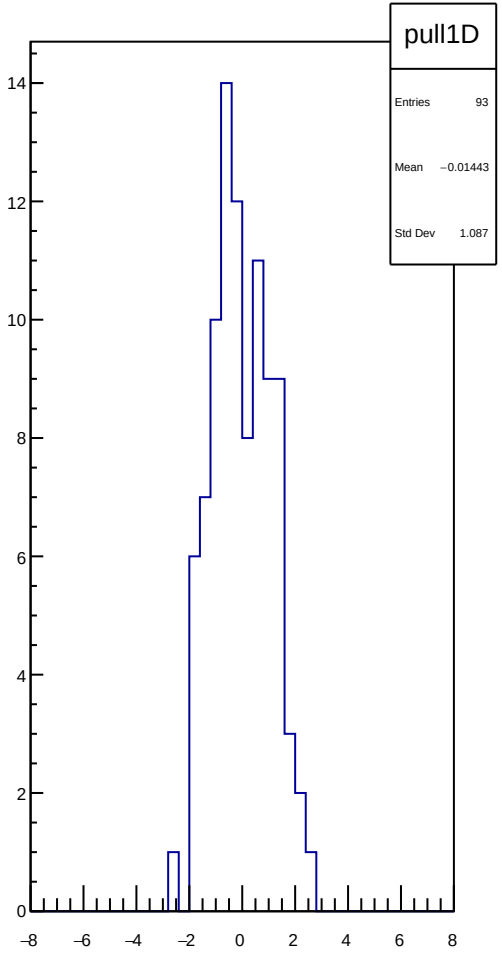

asym_atr1l2_avg_correction_rms vs run
χ² / ndf 1.42e+04 / 92
p0 5636 ± 4.261
8000
7500
7000
6500
6000
5500
5000

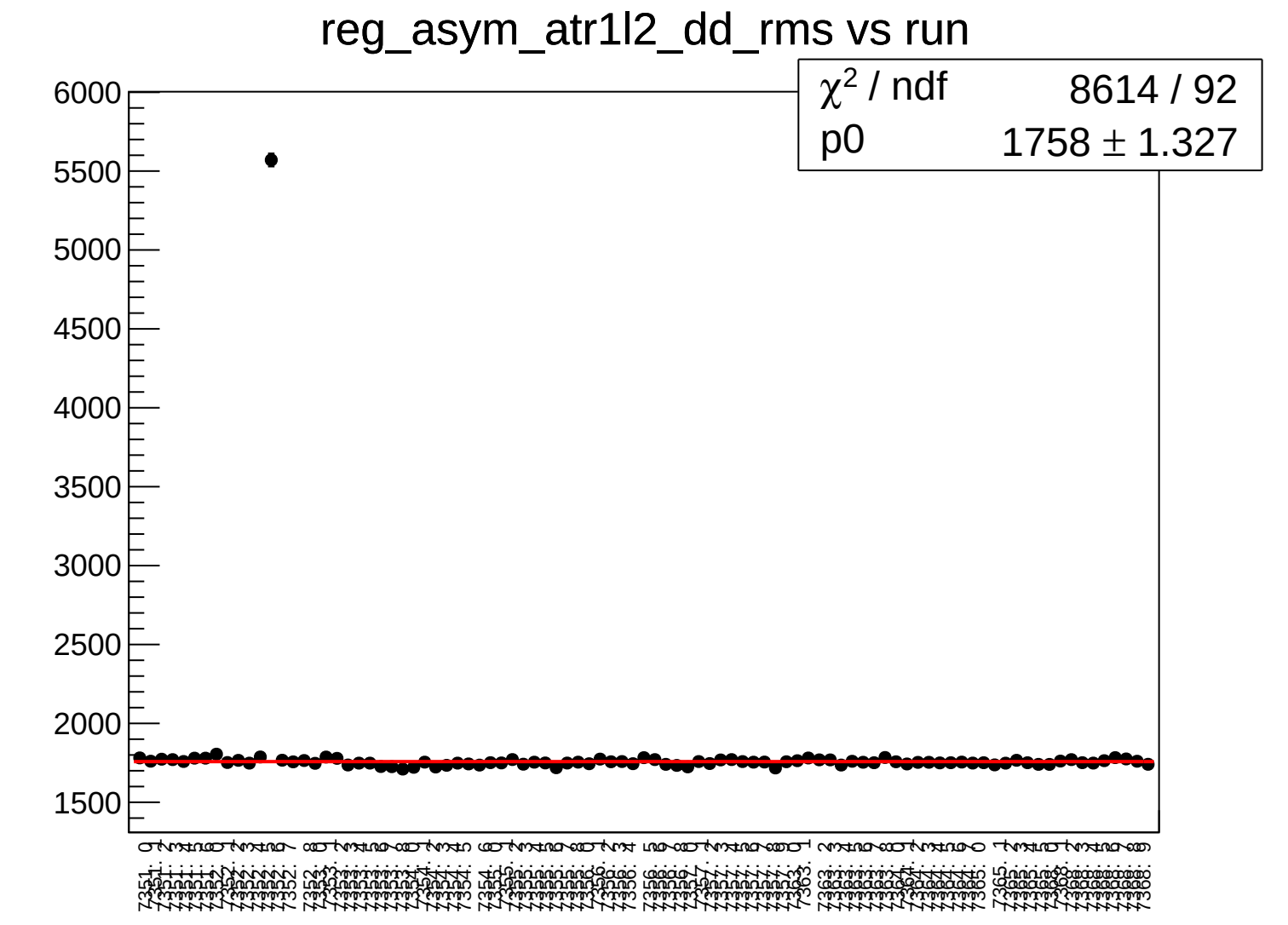

asym_atr1l2_avg_mean vs run
×10^3
χ² / ndf 76.87 / 92
p0 −9442 ± 6324
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −173.5
Std Dev 215.6
2
1
0
−1
−2

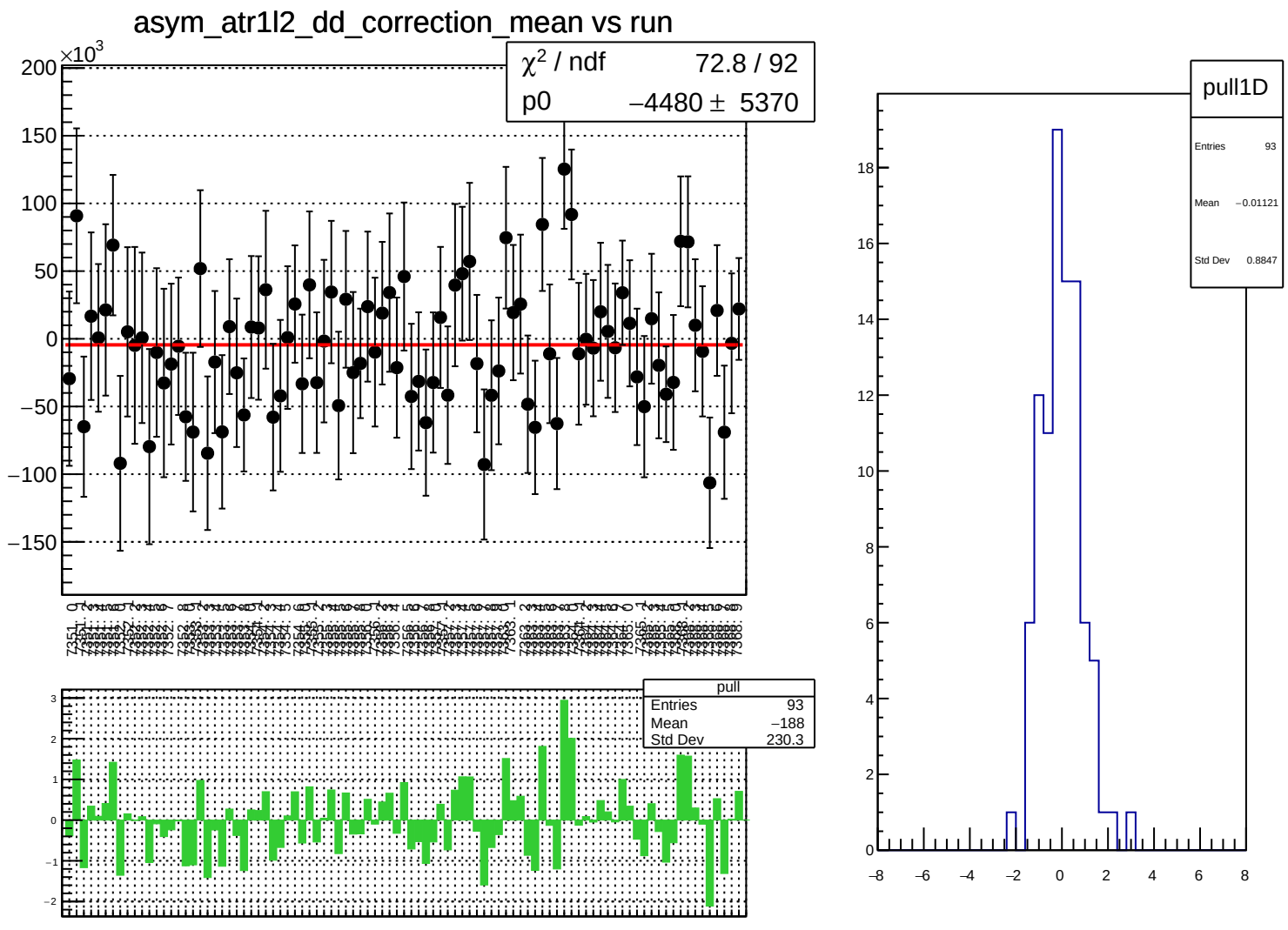

pull1D
Entries 93
Mean −0.01783
Std Dev 0.909
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

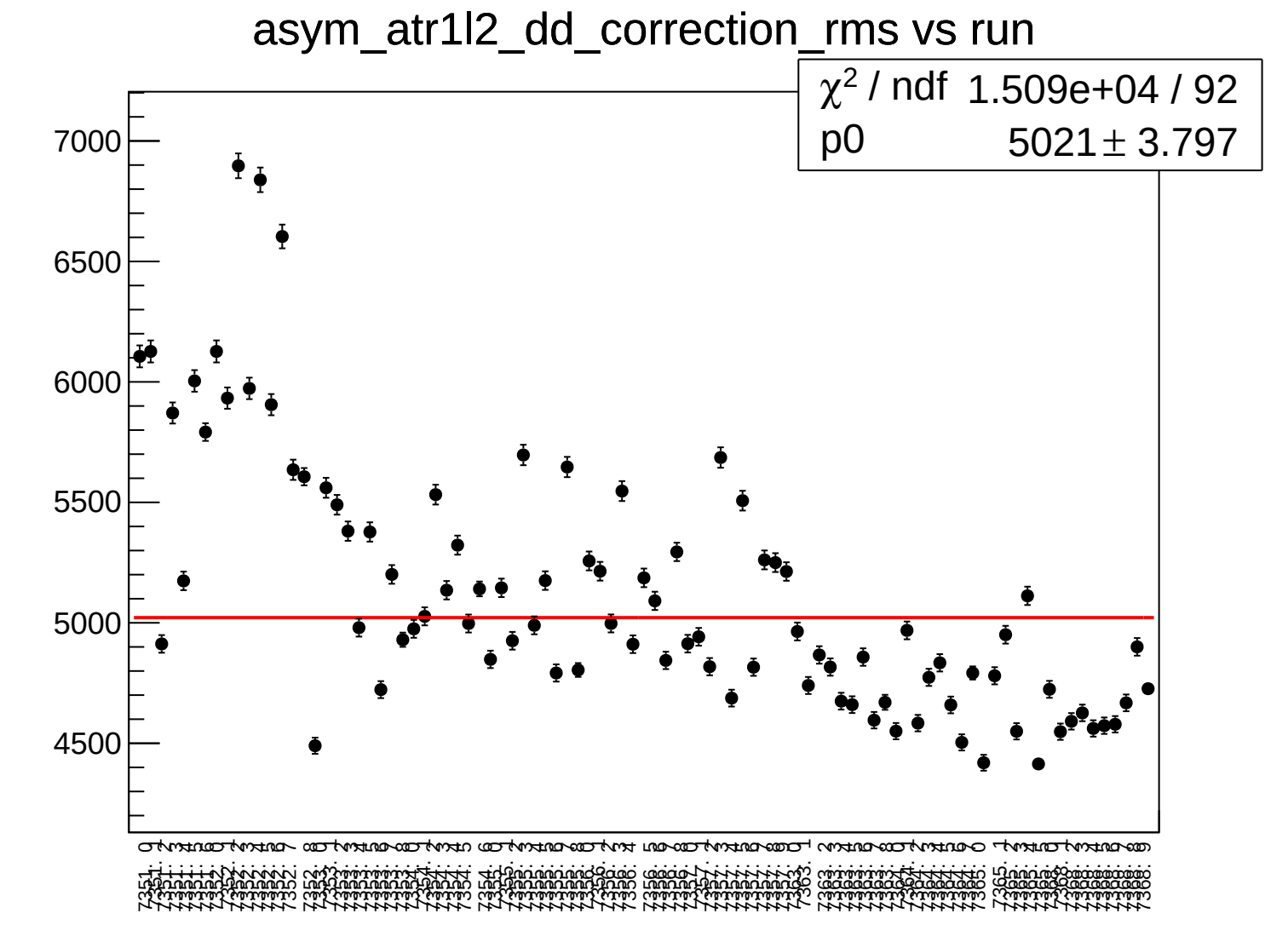

asym_atr1l2_avg_rms vs run
χ^2 / ndf 1.362e+04 / 92
p0 5915 ± 4.472
9000
8500
8000
7500
7000
6500
6000
5500
5000

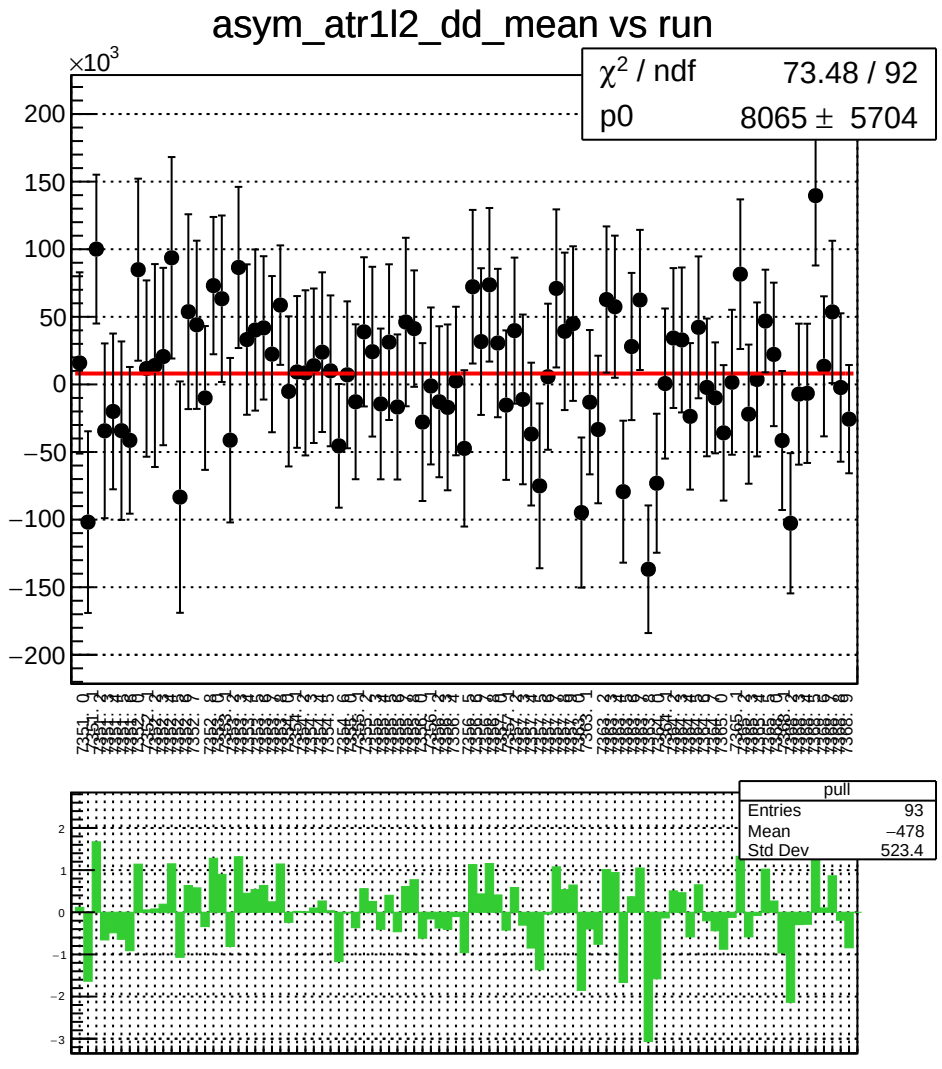

reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 109.9 / 92
p0 3843 ± 1877
50
0
−50
−100
−150
pull
Entries 93
Mean 75.88
Std Dev 42.75
2
1
0
−1
−2

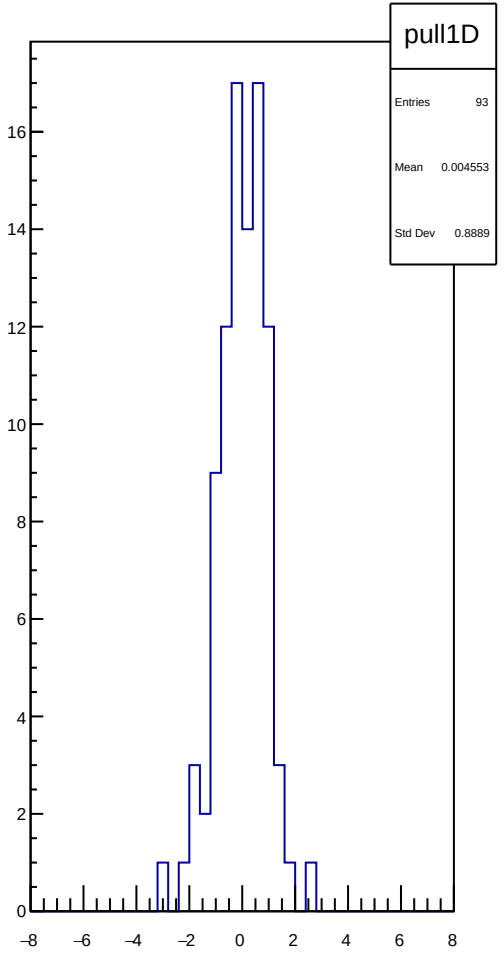

pull1D
Entries 93
Mean −0.01443
Std Dev 1.087
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

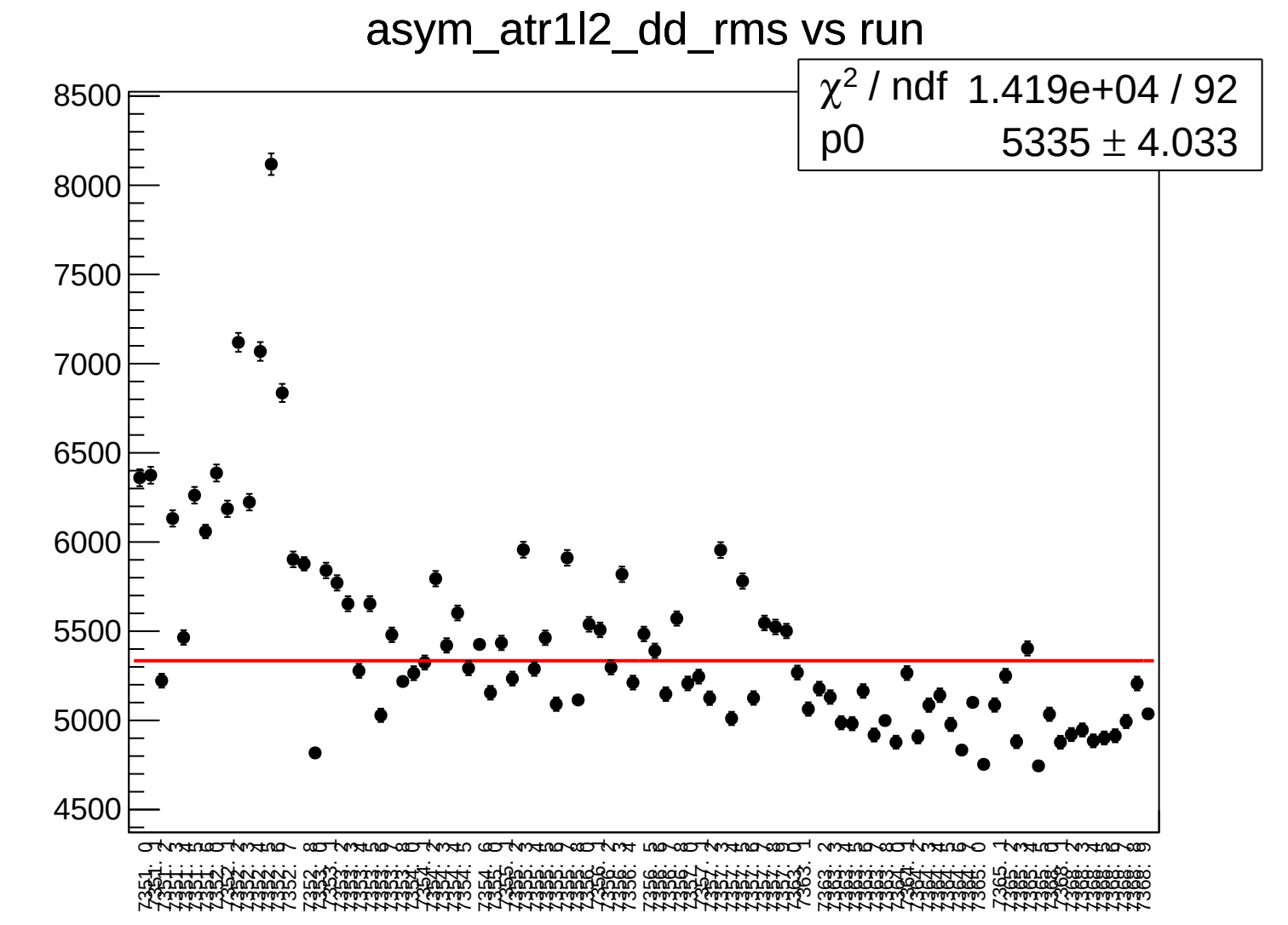

reg_asym_atr1l2_dd_rms vs run
χ^2 / ndf 8614 / 92
p0 1758 ± 1.327
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

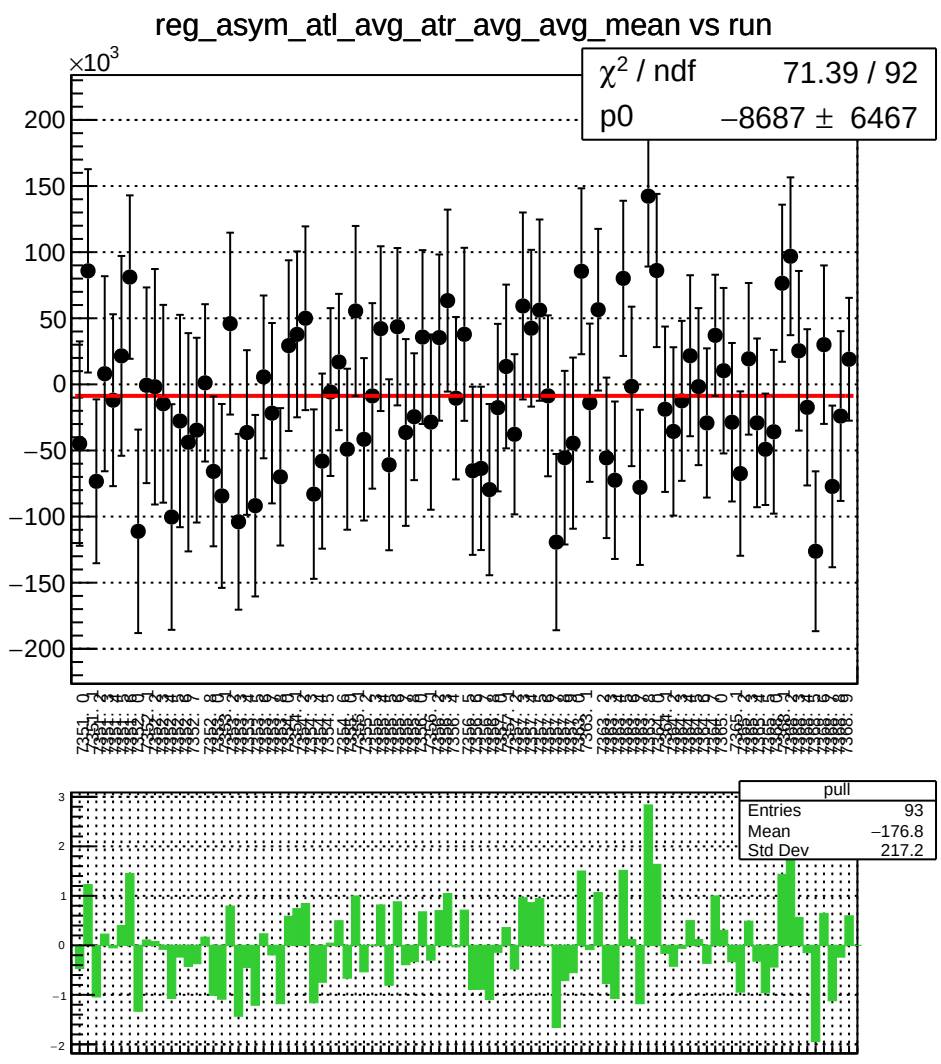

asym_atr1l2_dd_correction_mean vs run
×10^3
χ² / ndf 72.8 / 92
p0 −4480 ± 5370
pull
Entries 93
Mean −188
Std Dev 230.3
pull1D
Entries 93
Mean −0.01121
Std Dev 0.8847

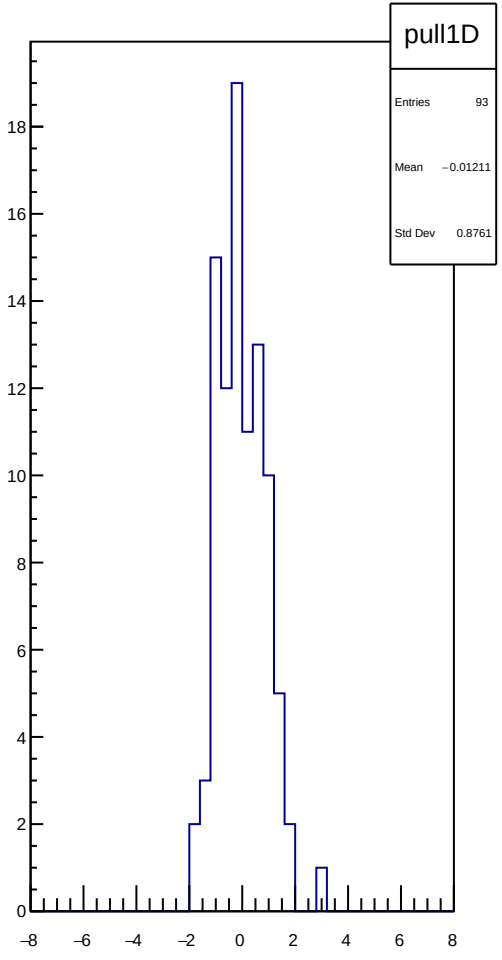

asym_atr1l2_dd_correction_rms vs run
χ² / ndf 1.509e+04 / 92
p0 5021 ± 3.797
7000
6500
6000
5500
5000
4500

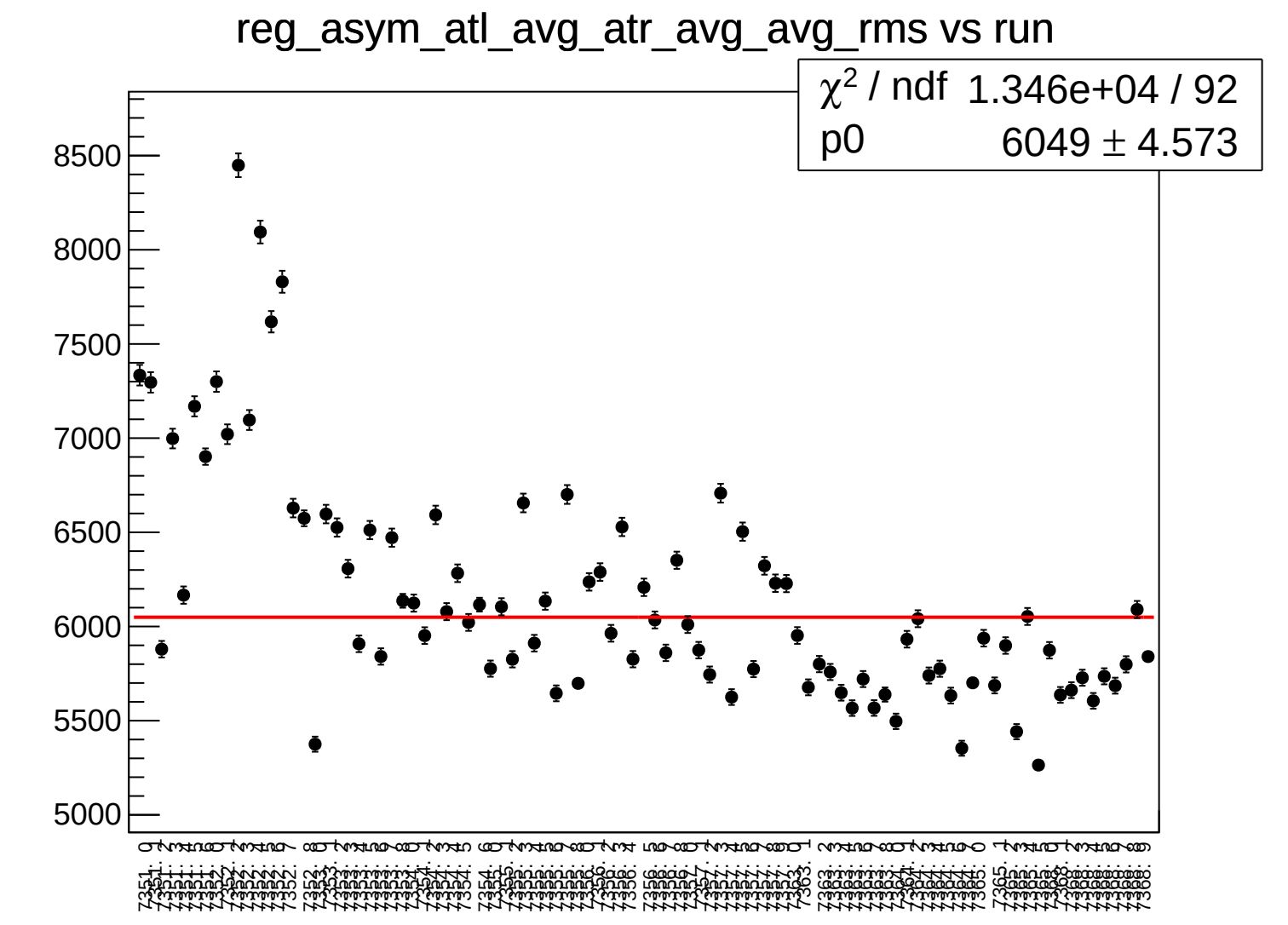

asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 73.48 / 92
p0 8065 ± 5704
pull
Entries 93
Mean −478
Std Dev 523.4

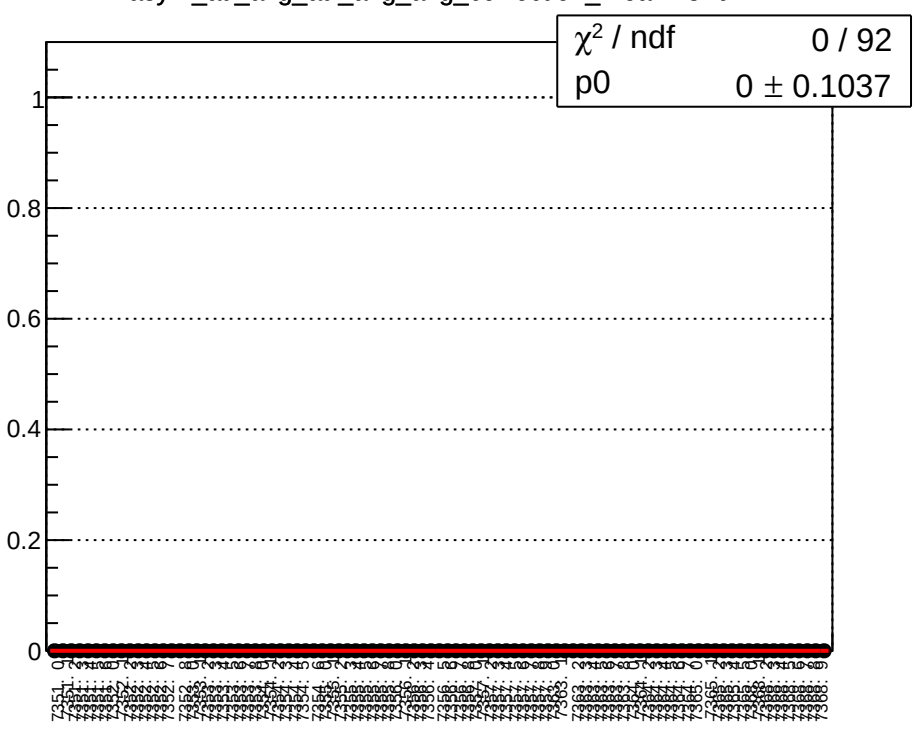

pull1D
Entries 93
Mean 0.004553
Std Dev 0.8889

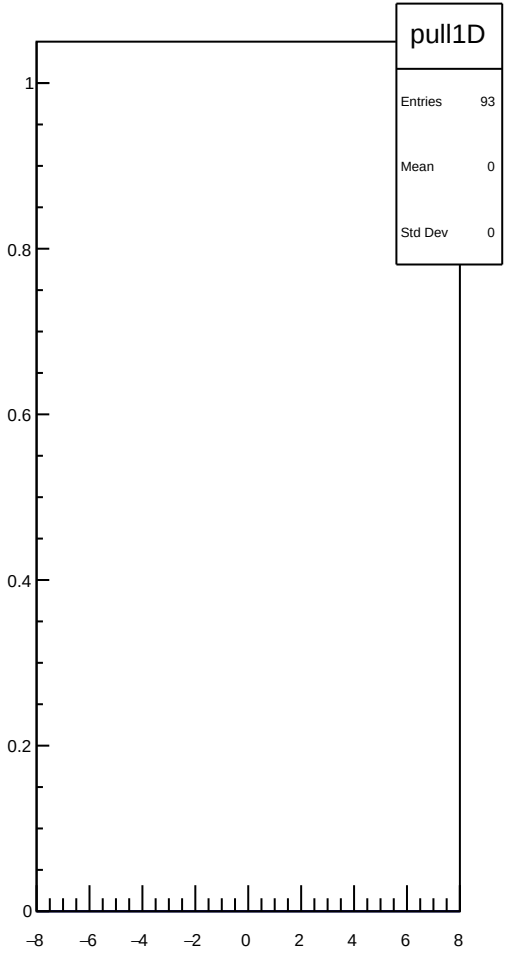

asym_atr1l2_dd_rms vs run
χ^2 / ndf 1.419e+04 / 92
p0 5335 ± 4.033
8500
8000
7500
7000
6500
6000
5500
5000
4500

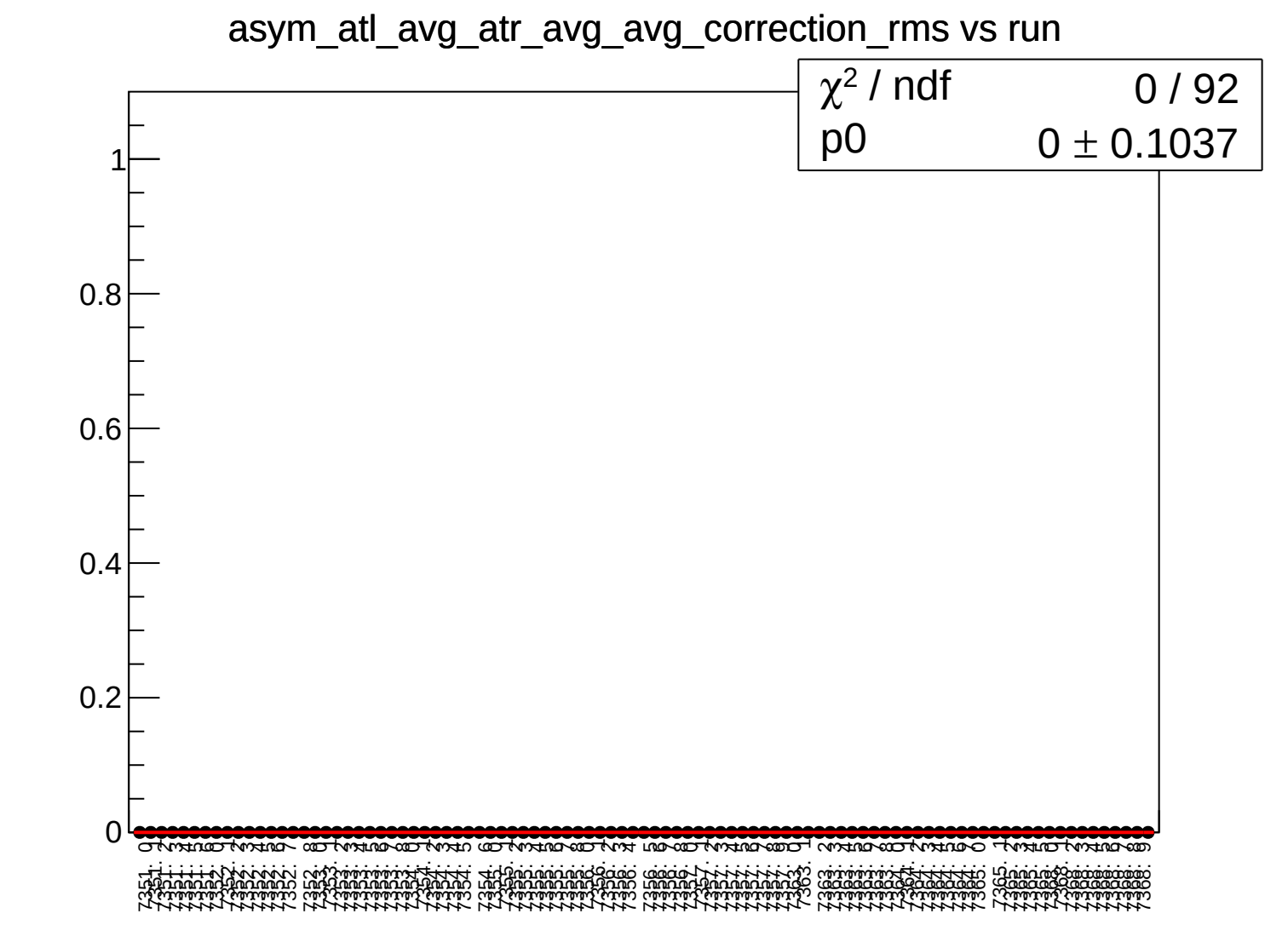

reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.39 / 92
p0 −8687 ± 6467
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −176.8
Std Dev 217.2
3
2
1
0
−1
−2

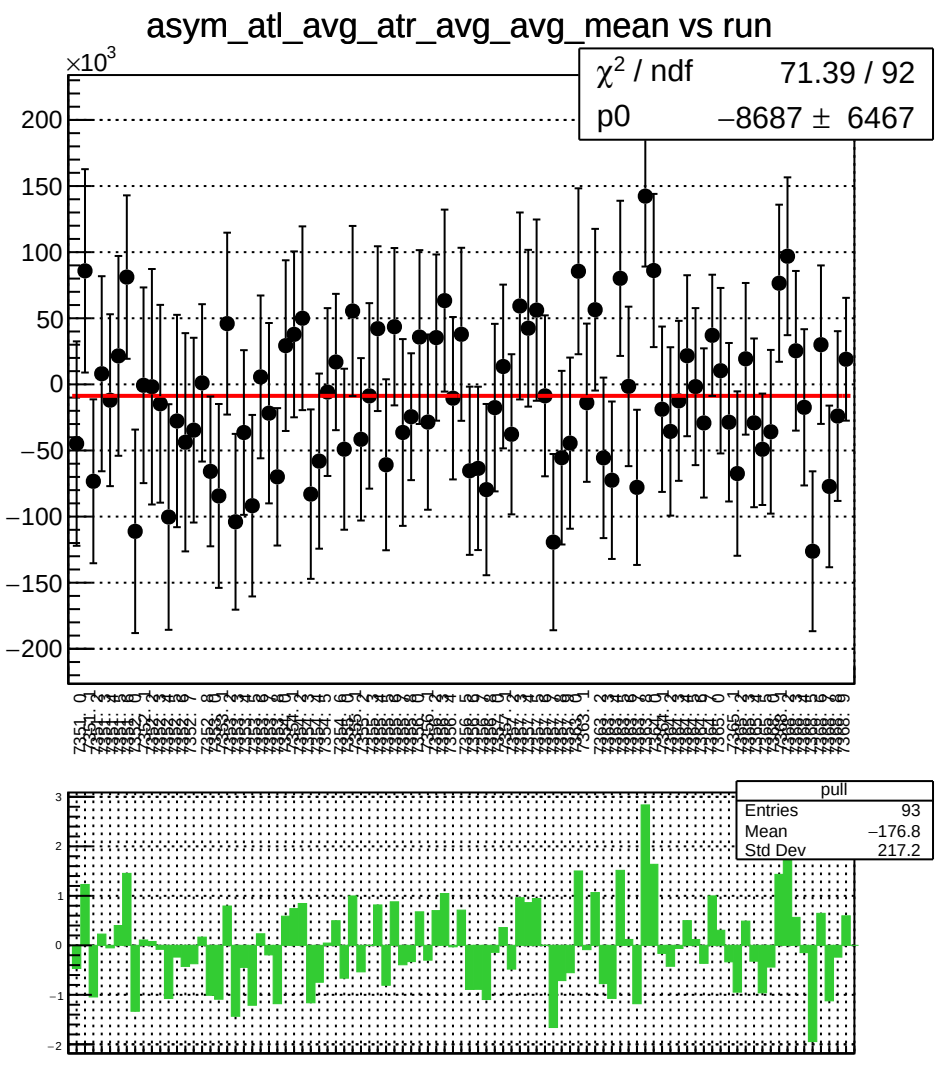

pull1D
Entries 93
Mean −0.01211
Std Dev 0.8761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

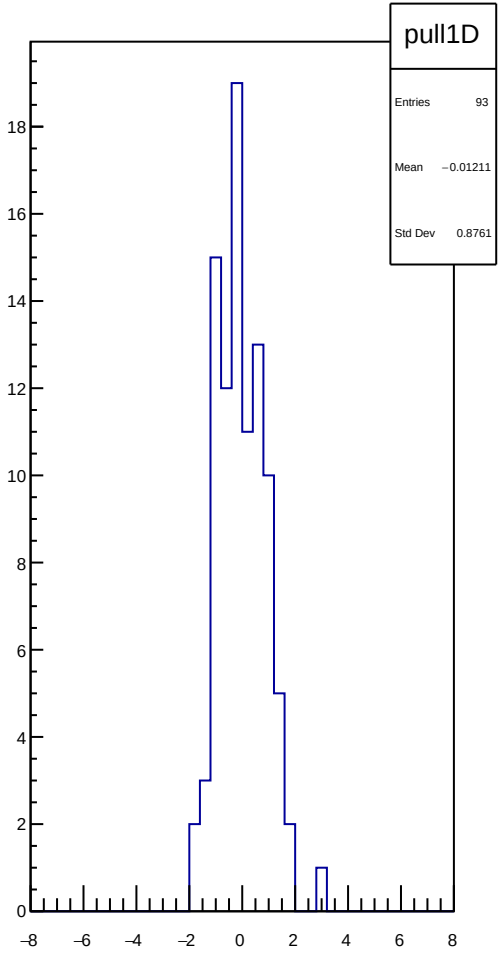

reg_asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.346e+04 / 92
p0 6049 ± 4.573
8500
8000
7500
7000
6500
6000
5500
5000

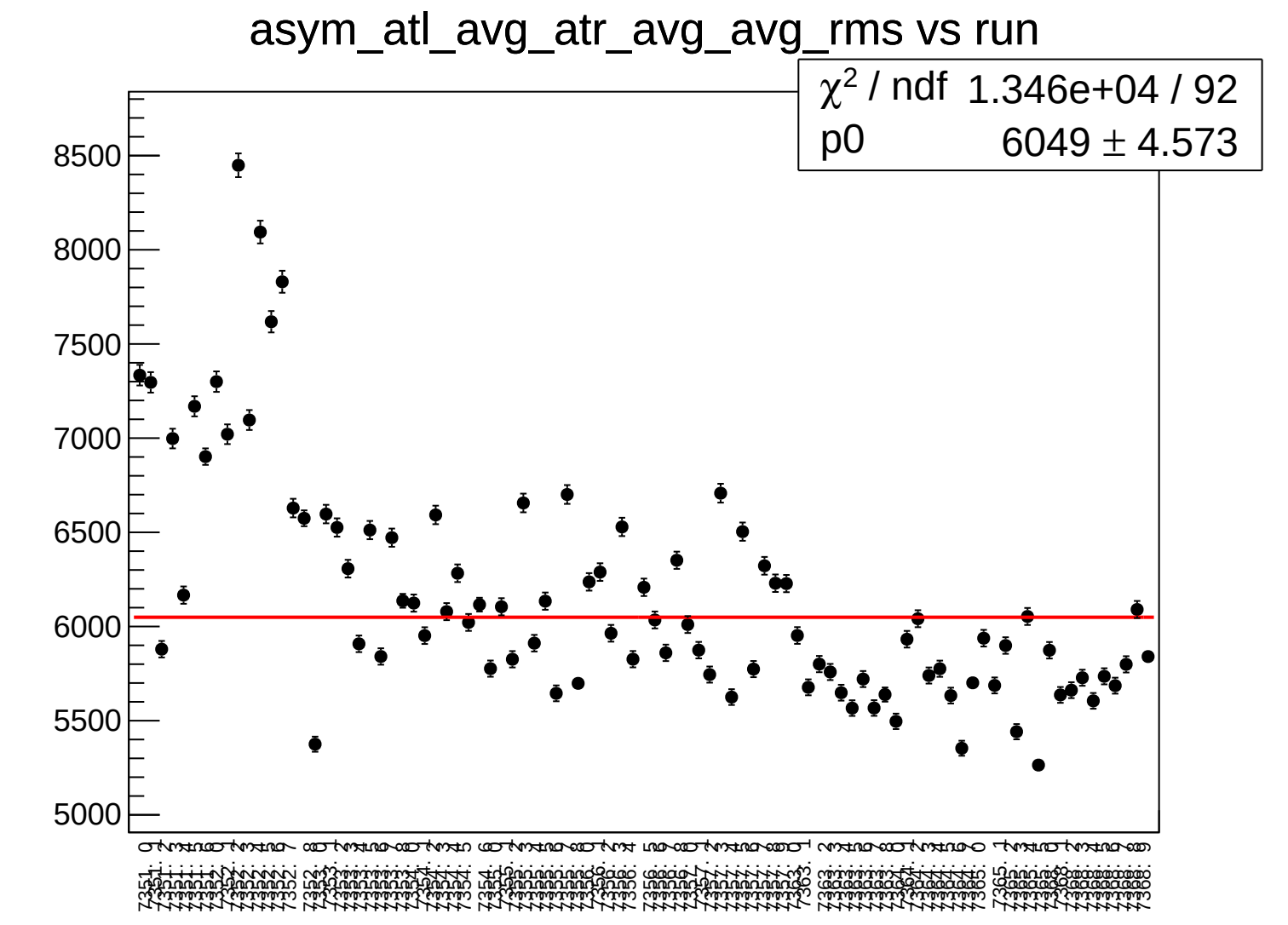

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

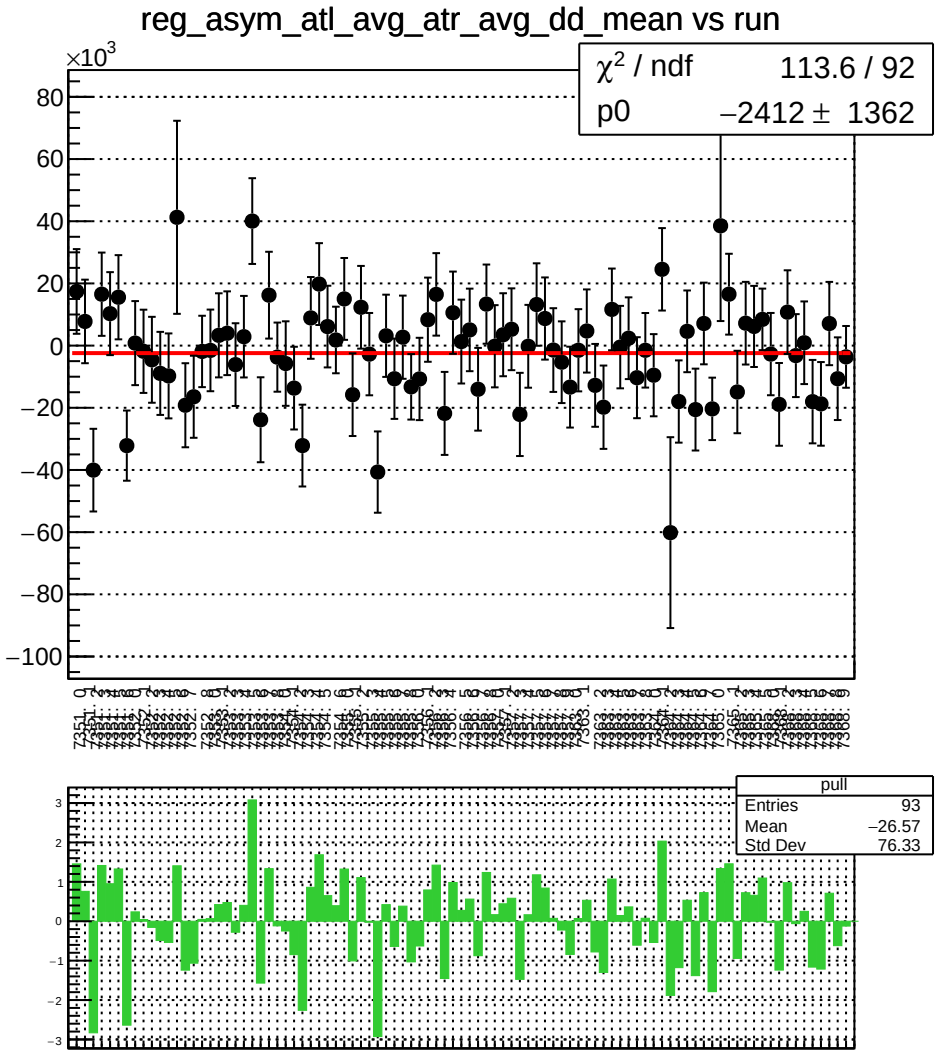

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

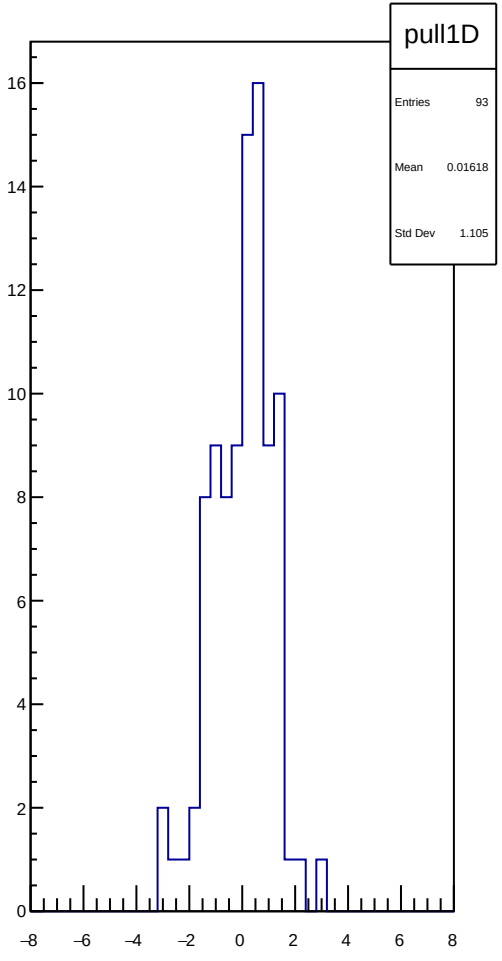

asym_atl_avg_atr_avg_avg_correction_rms vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

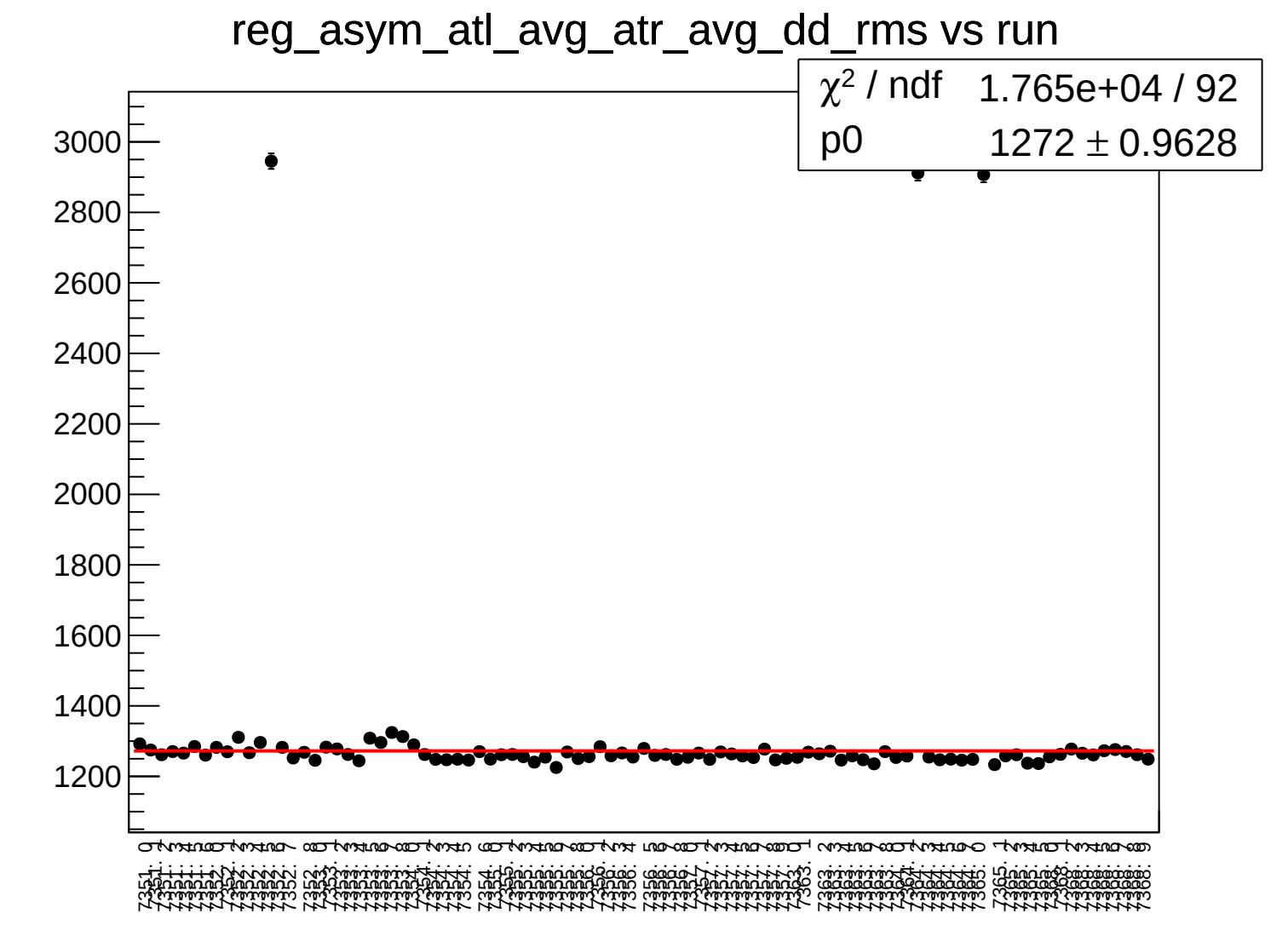

asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ² / ndf 71.39 / 92
p0 −8687 ± 6467
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 93
Mean −176.8
Std Dev 217.2
3
2
1
0
−1
−2

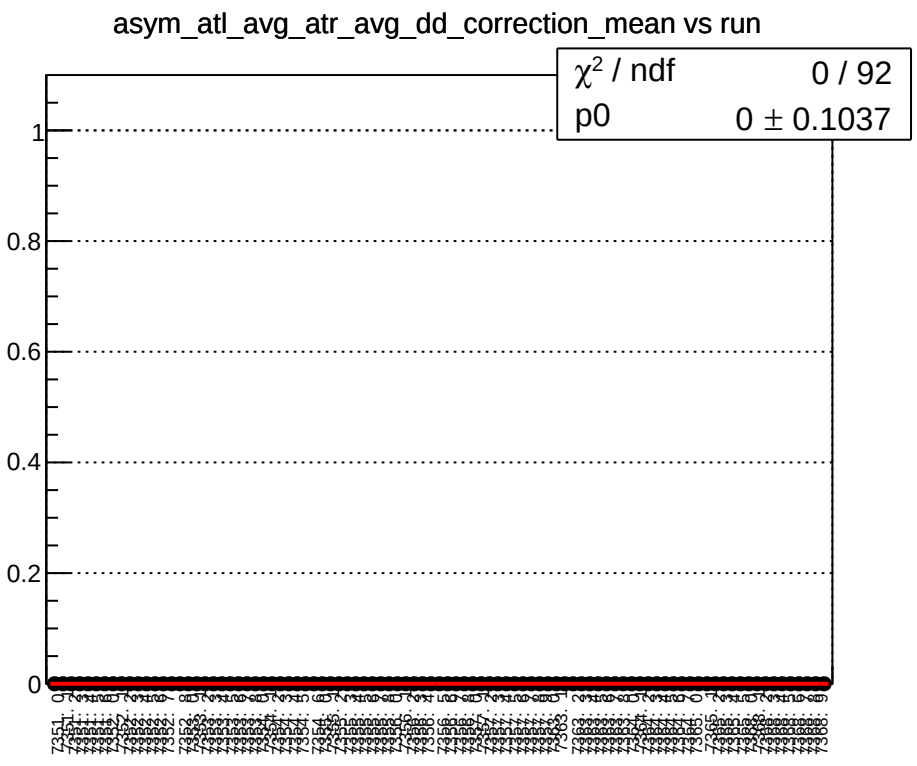

pull1D
Entries 93
Mean −0.01211
Std Dev 0.8761
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

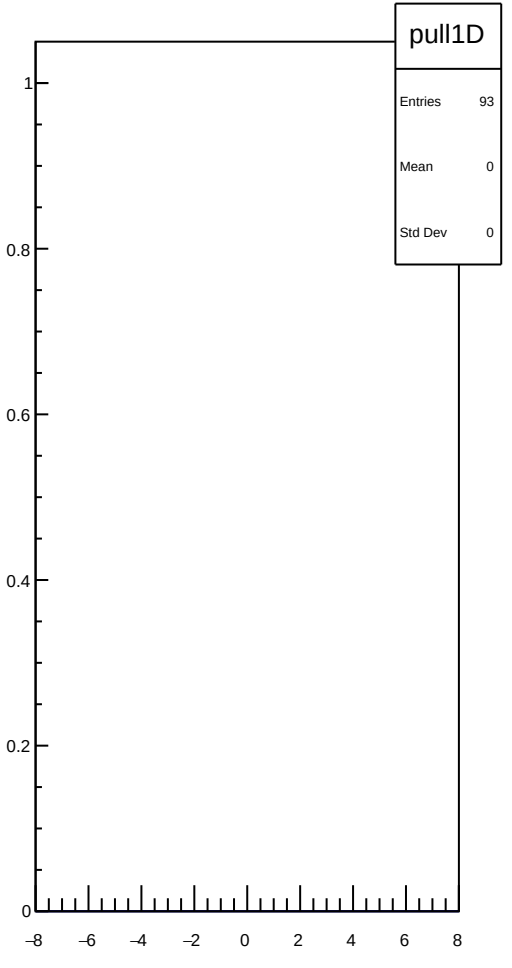

asym_atl_avg_atr_avg_avg_rms vs run
χ² / ndf 1.346e+04 / 92
p0 6049 ± 4.573
8500
8000
7500
7000
6500
6000
5500
5000

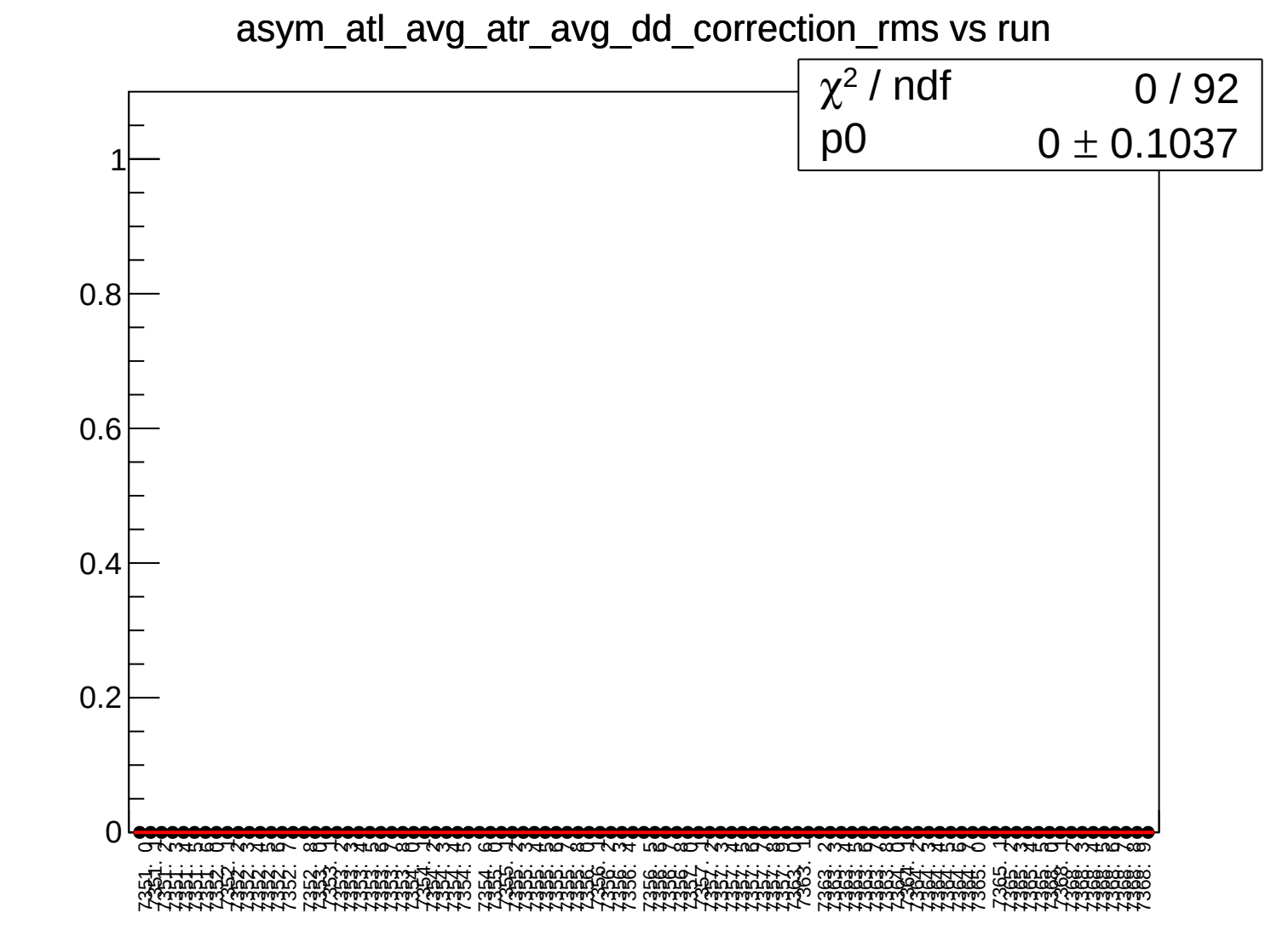

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ² / ndf 113.6 / 92
p0 −2412 ± 1362
pull
Entries 93
Mean −26.57
Std Dev 76.33

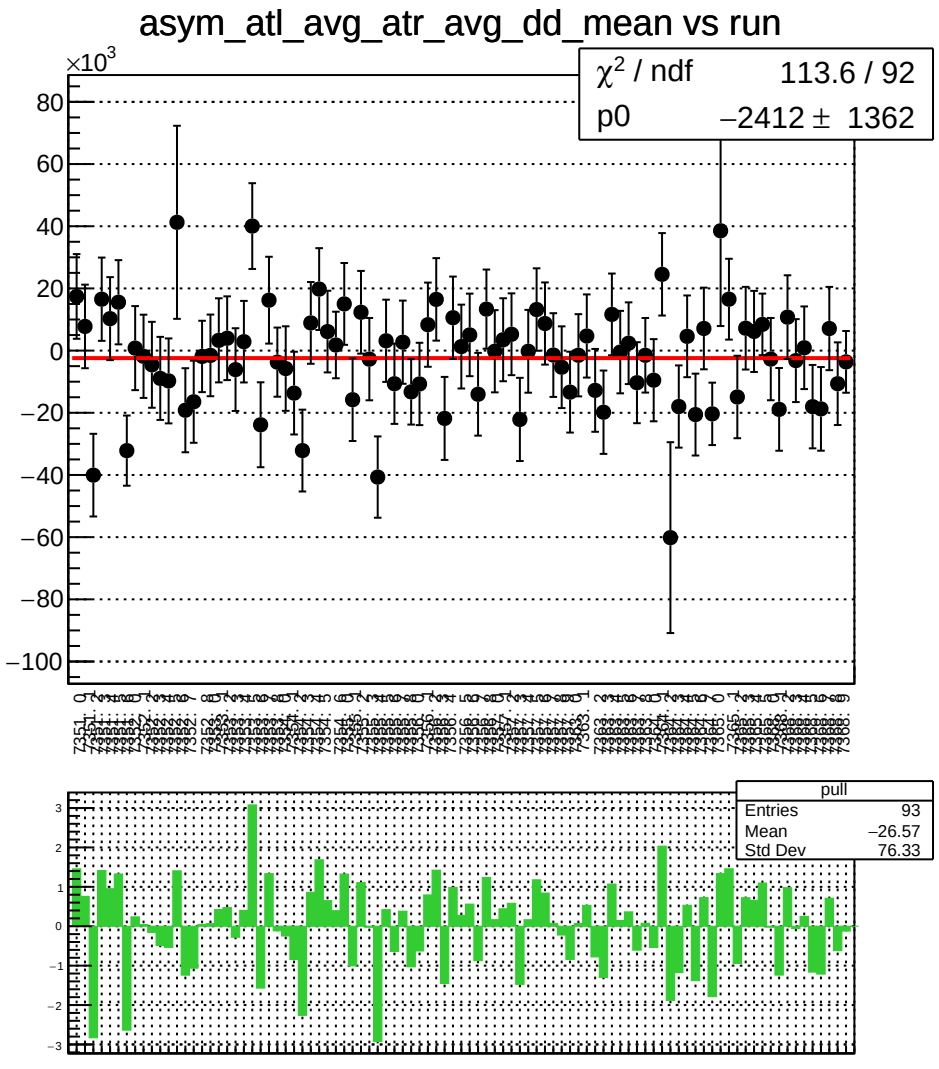

pull1D
Entries 93
Mean 0.01618
Std Dev 1.105

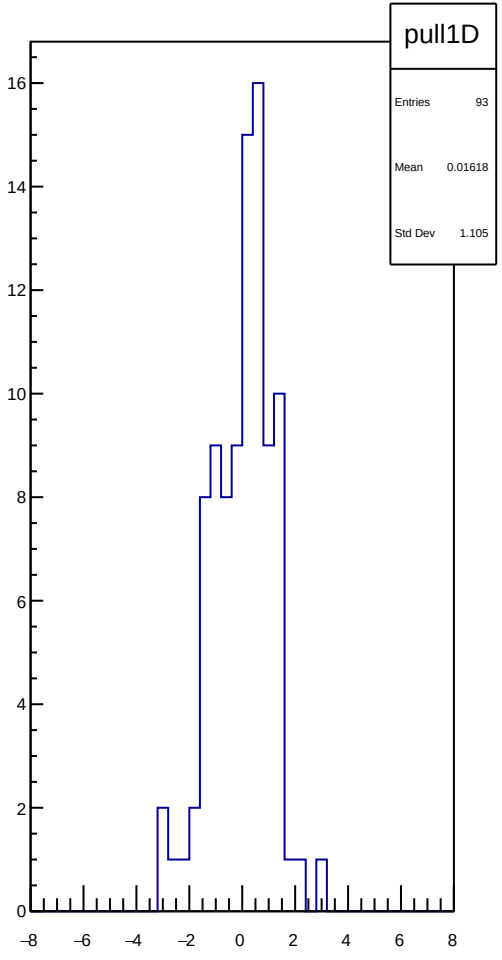

reg_asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.765e+04 / 92
p0 1272 ± 0.9628
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

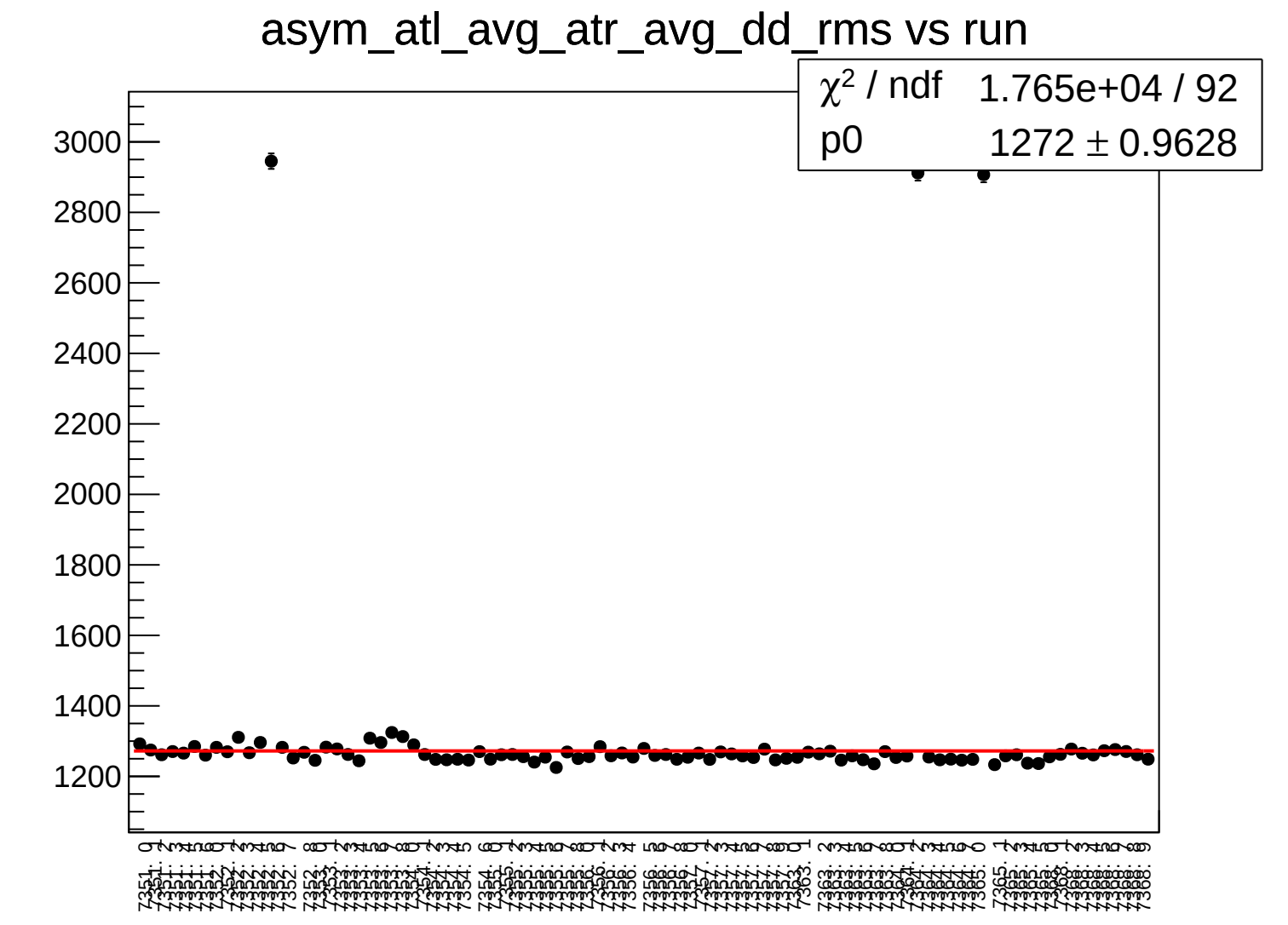

asym_atl_avg_atr_avg_dd_correction_mean vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

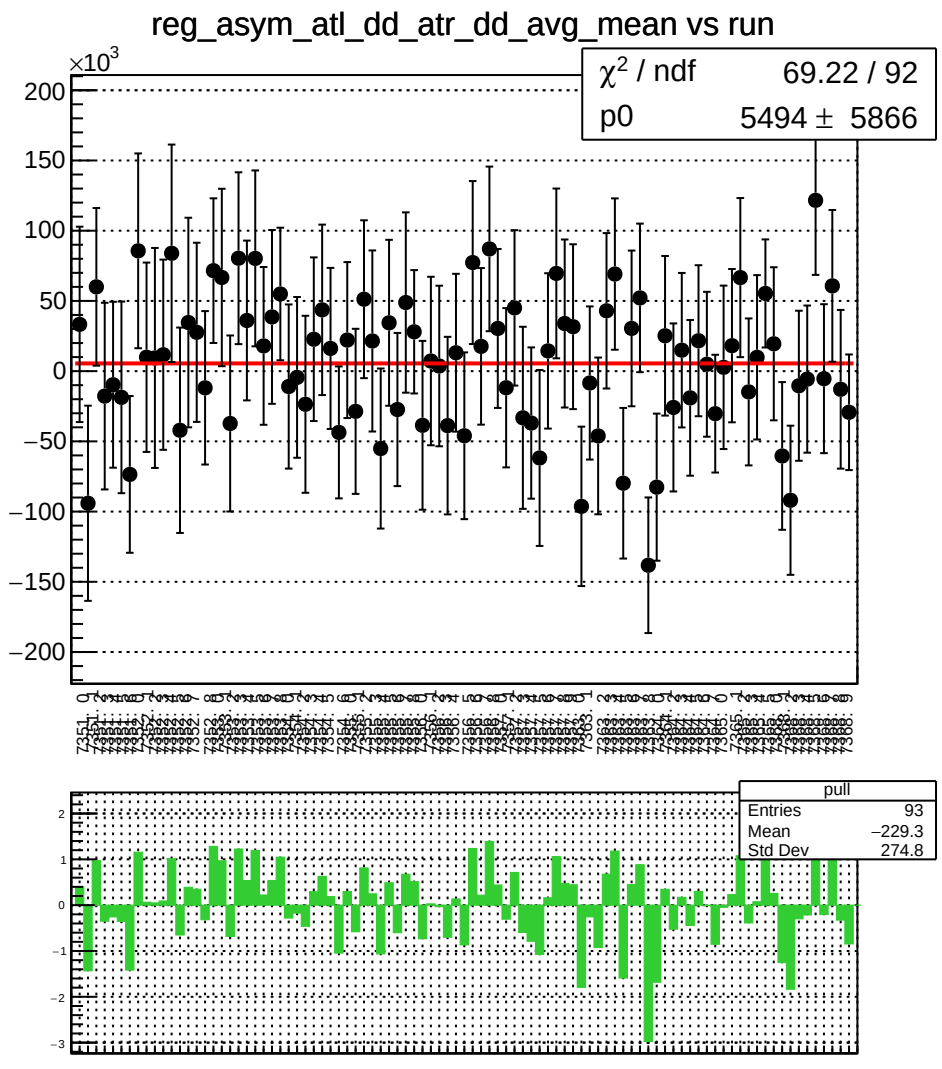

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

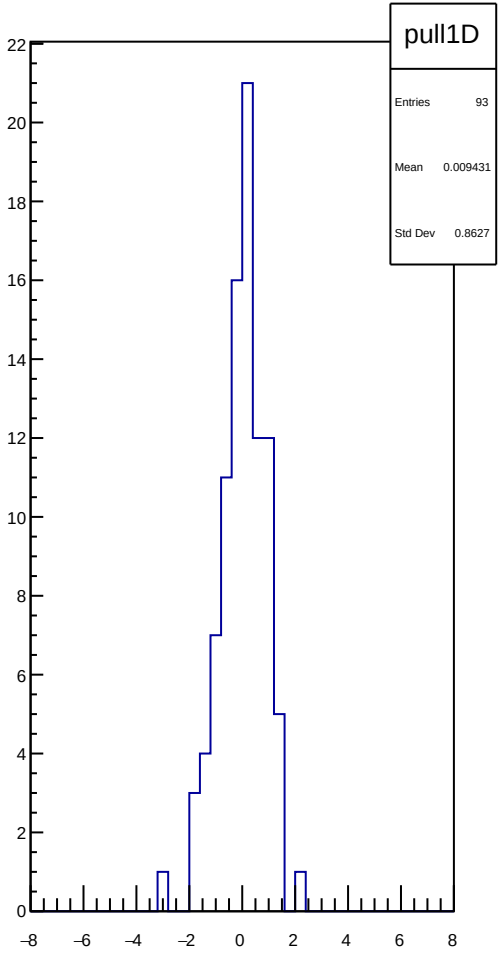

asym_atl_avg_atr_avg_dd_correction_rms vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

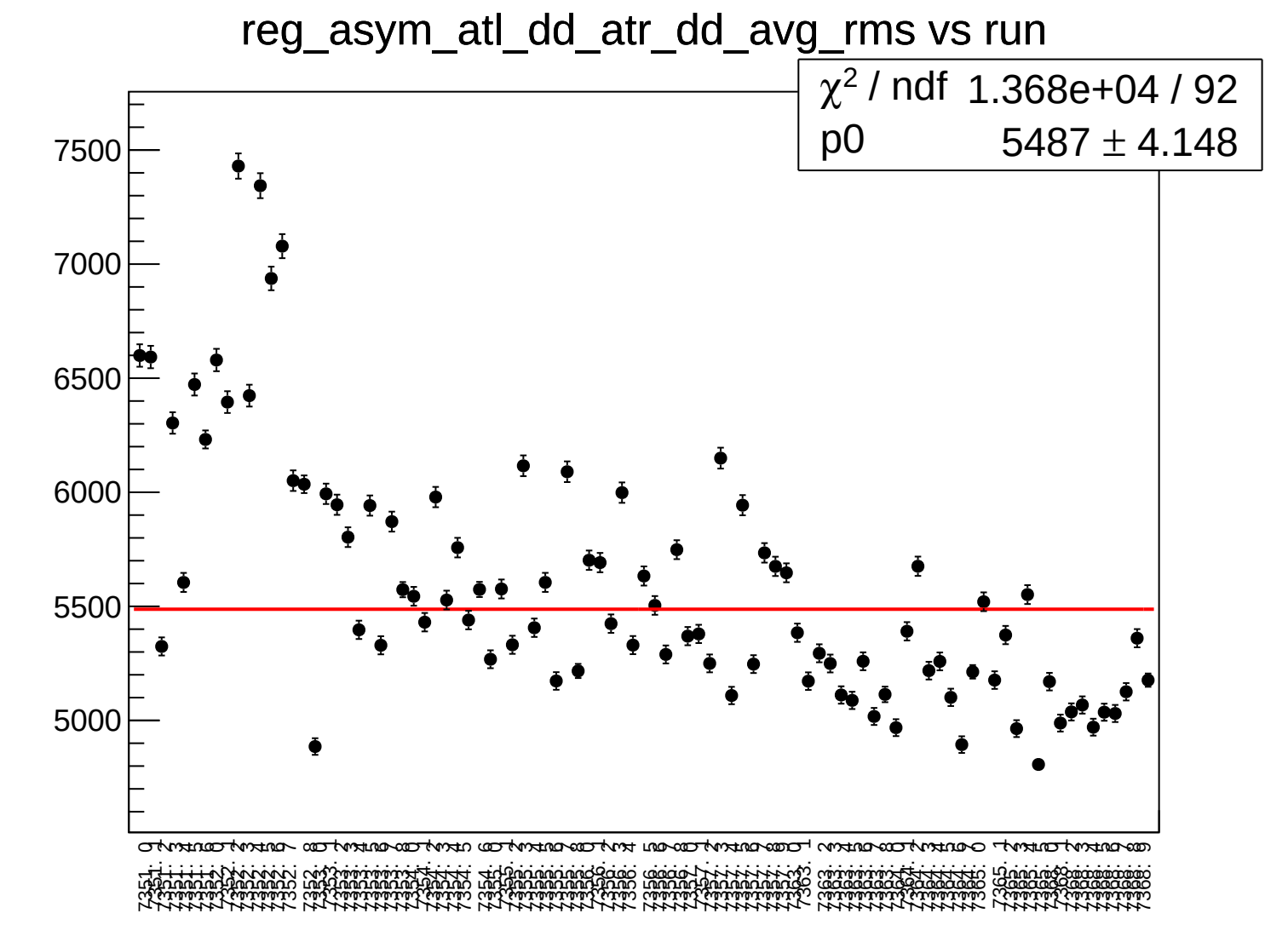

asym_atl_avg_atr_avg_dd_mean vs run
χ² / ndf 113.6 / 92
p0 −2412 ± 1362
×10³
pull
Entries 93
Mean −26.57
Std Dev 76.33

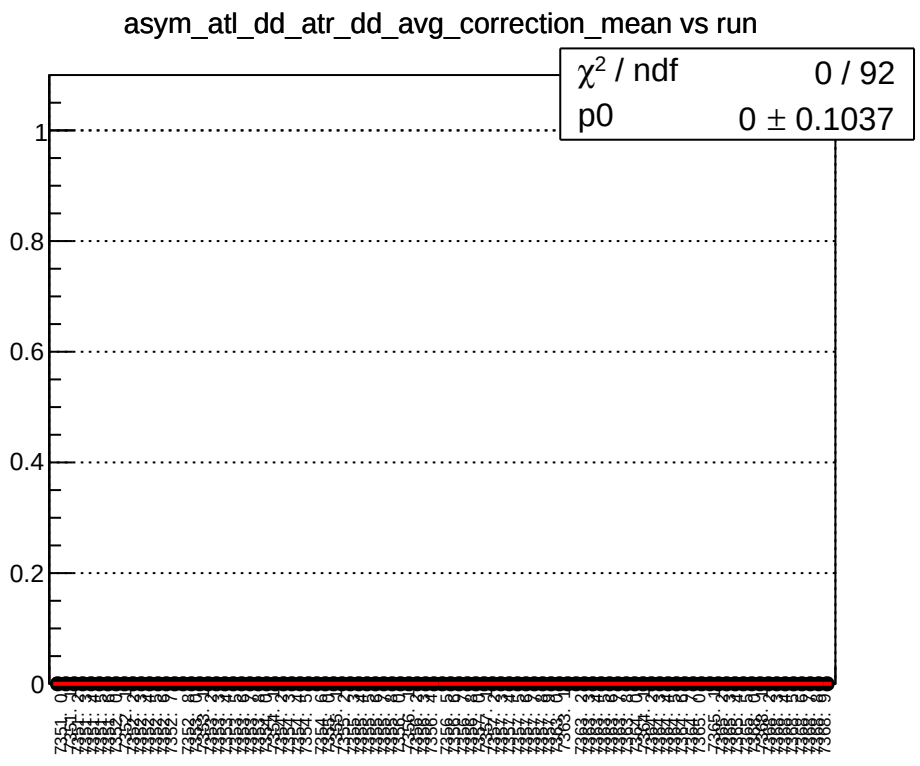

pull1D
Entries 93
Mean 0.01618
Std Dev 1.105

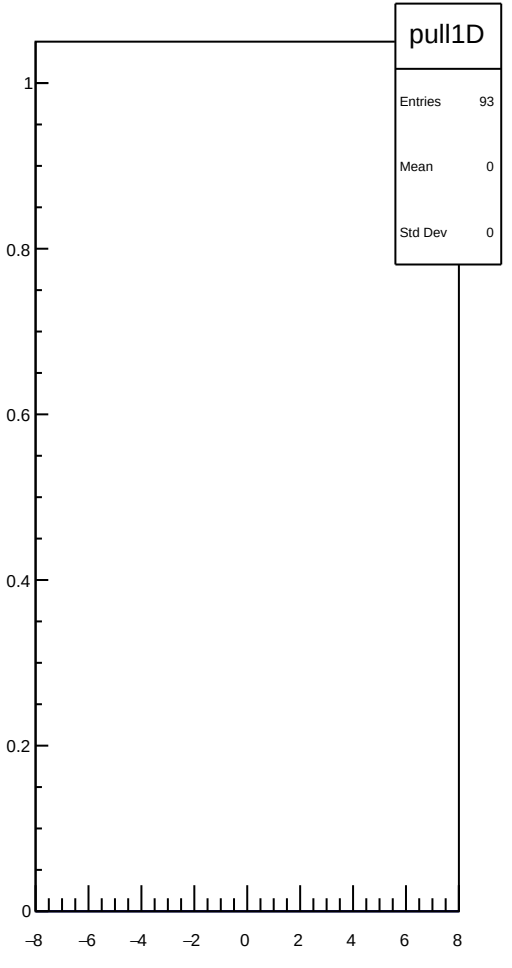

asym_atl_avg_atr_avg_dd_rms vs run
χ² / ndf 1.765e+04 / 92
p0 1272 ± 0.9628
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

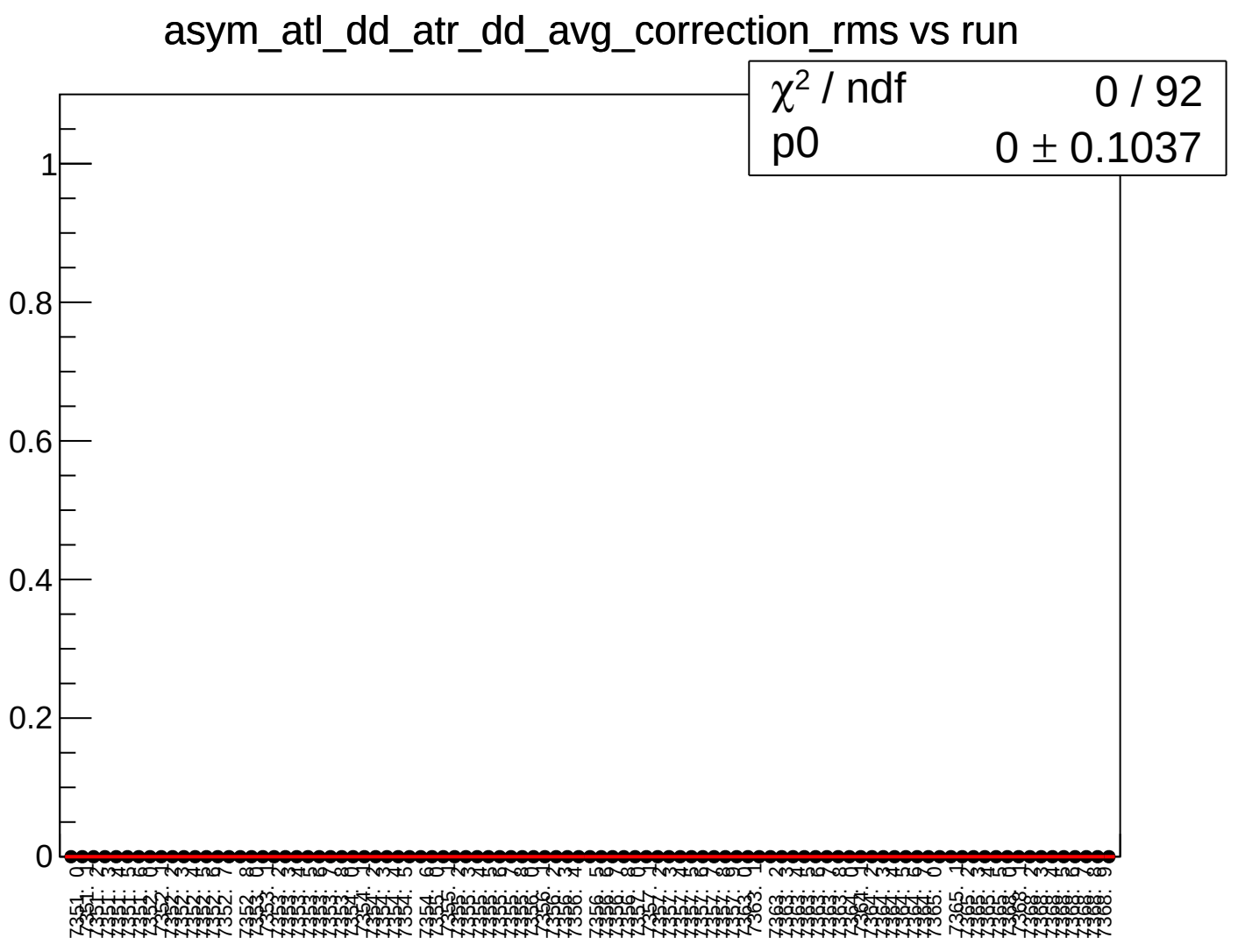

reg_asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 69.22 / 92
p0 5494 ± 5866
pull
Entries 93
Mean −229.3
Std Dev 274.8

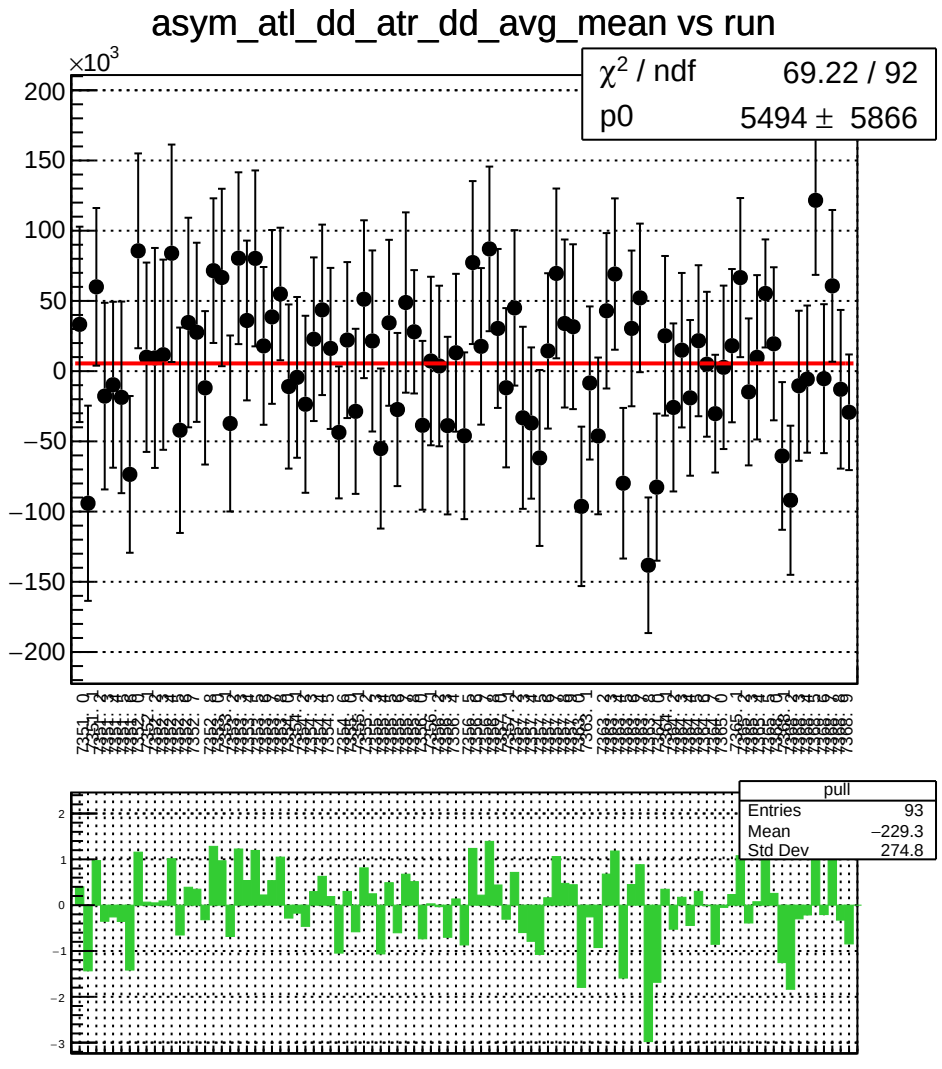

pull1D
Entries 93
Mean 0.009431
Std Dev 0.8627

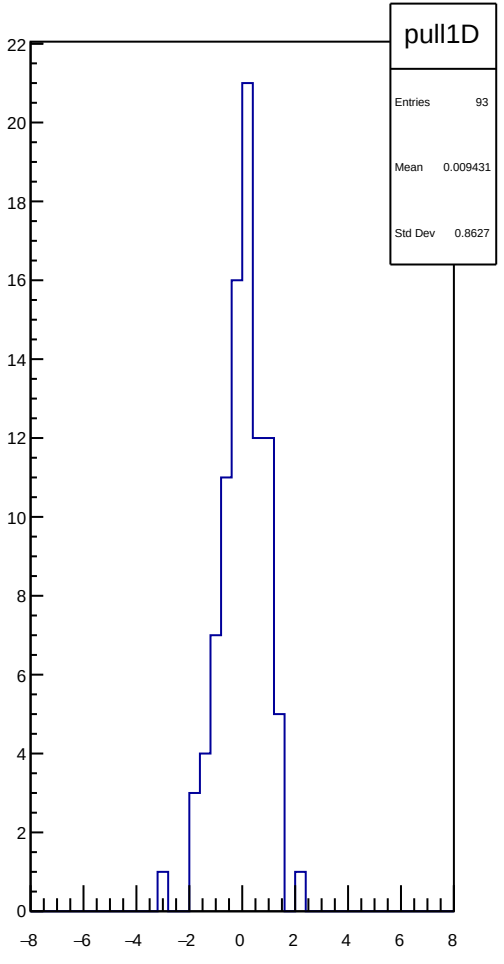

reg_asym_atl_dd_atr_dd_avg_rms vs run
χ^2 / ndf 1.368e+04 / 92
p0 5487 ± 4.148
7500
7000
6500
6000
5500
5000

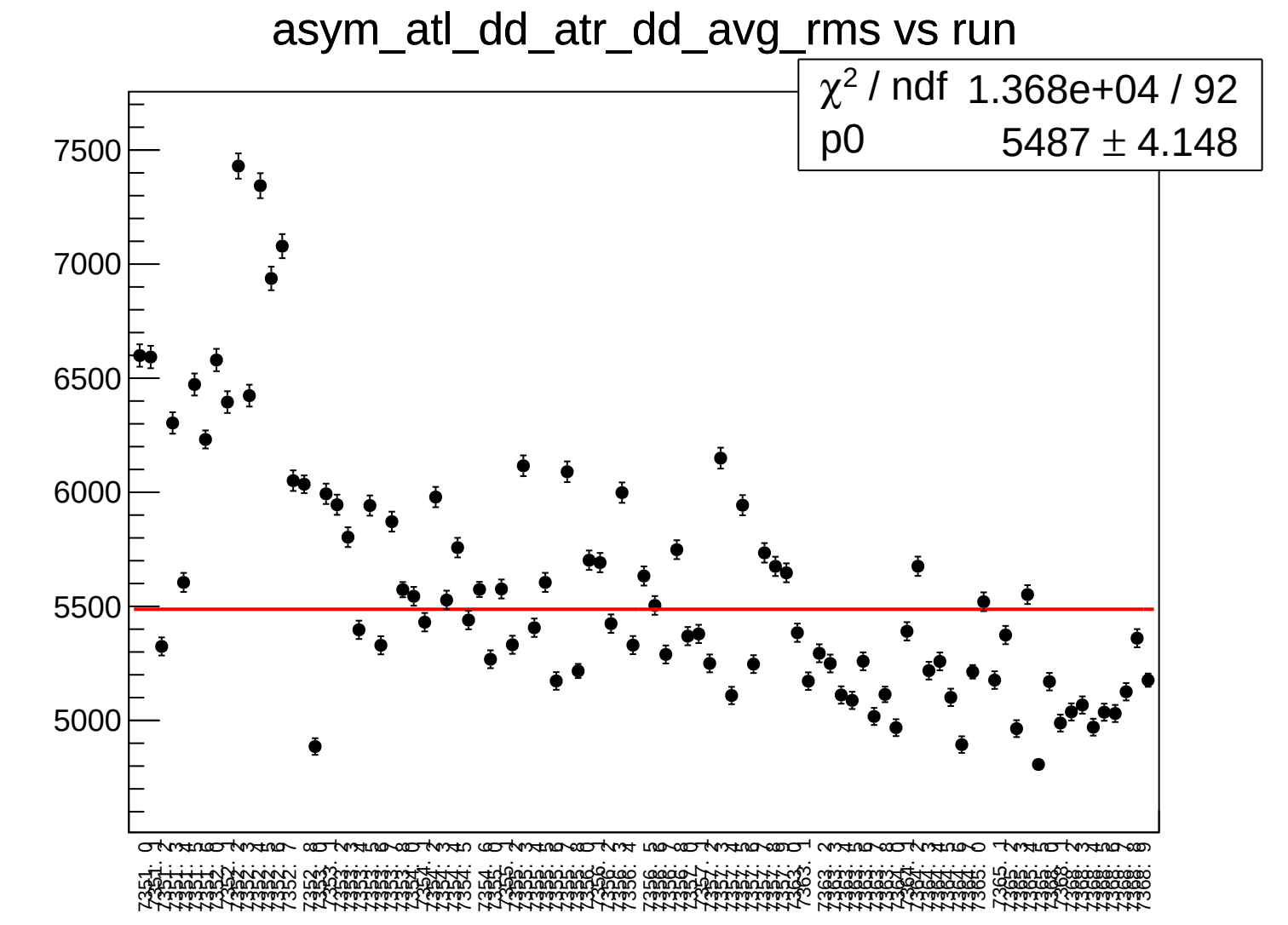

asym_atl_dd_atr_dd_avg_correction_mean vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

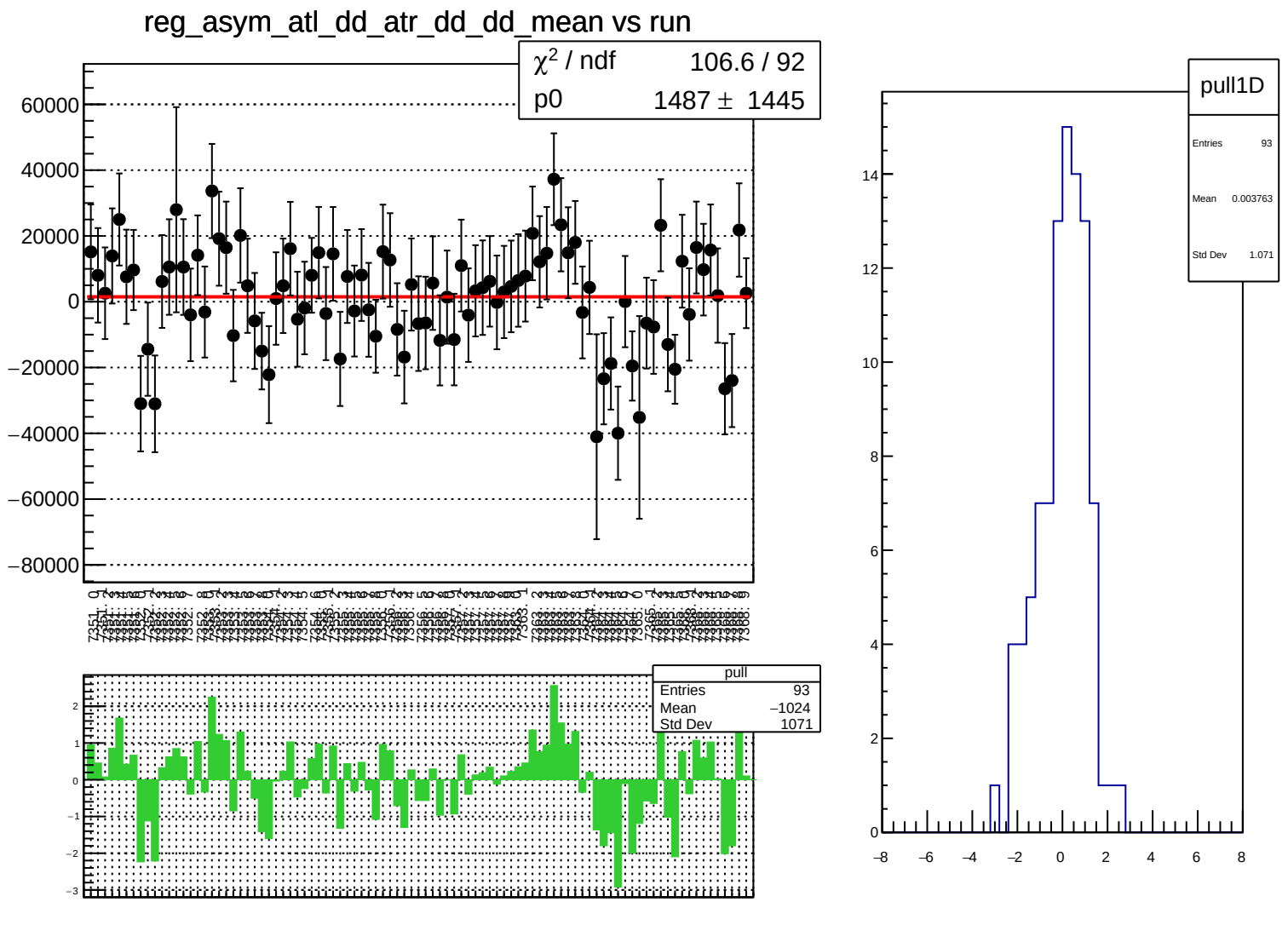

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

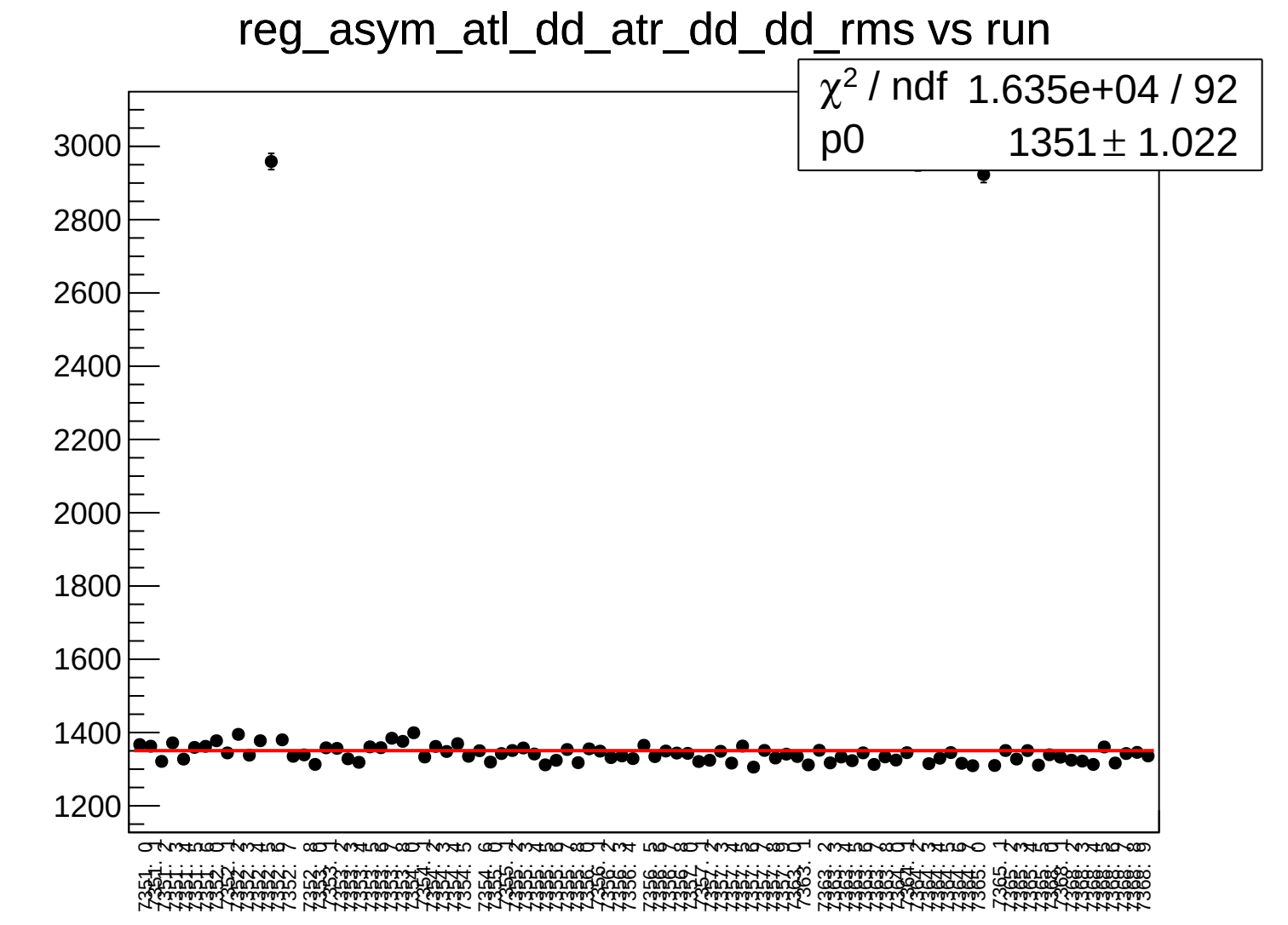

asym_atl_dd_atr_dd_avg_correction_rms vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

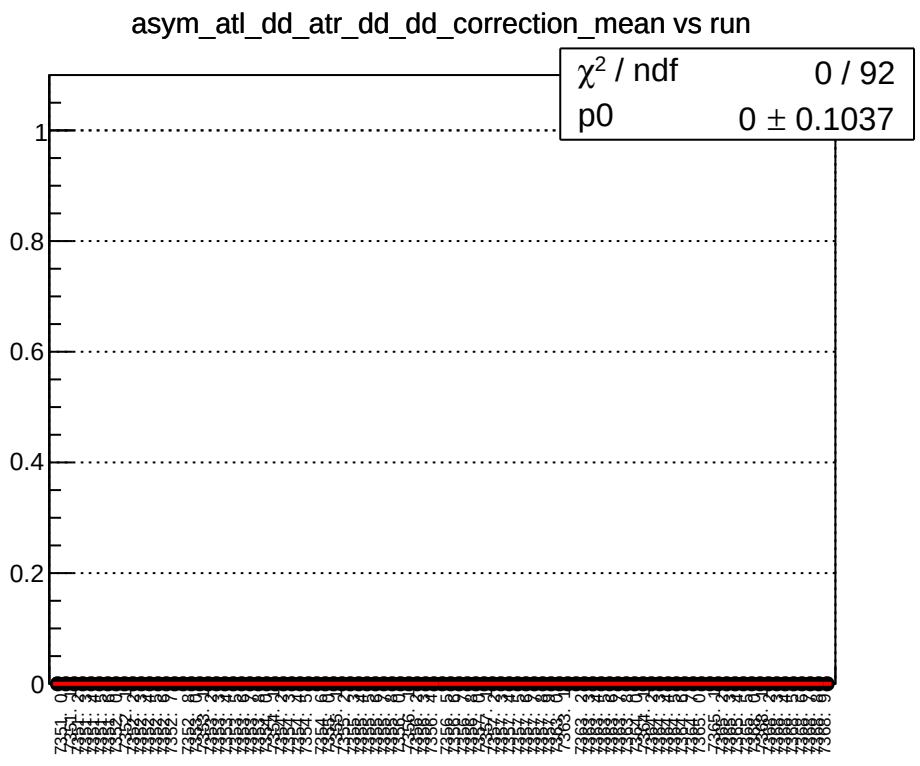

asym_atl_dd_atr_dd_avg_mean vs run
×10^3
χ² / ndf 69.22 / 92
p0 5494 ± 5866
pull
Entries 93
Mean −229.3
Std Dev 274.8

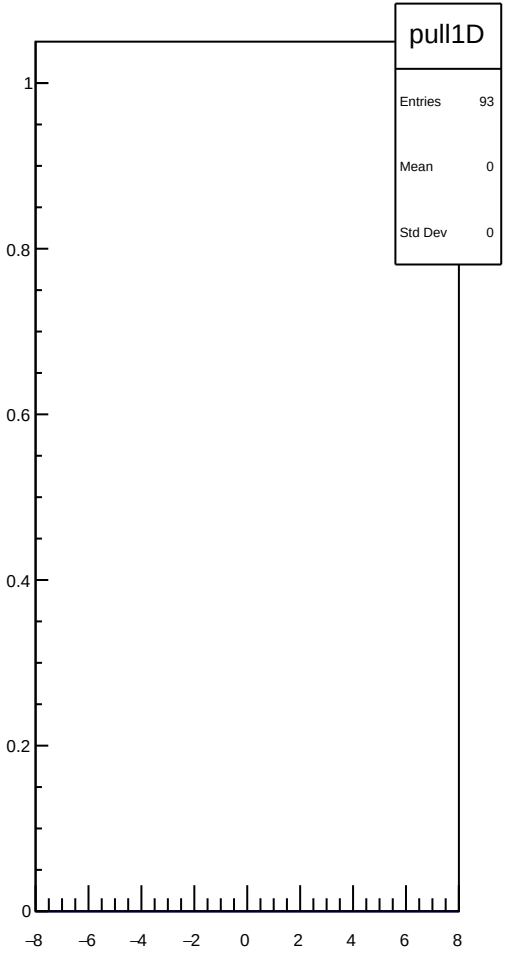

pull1D
Entries 93
Mean 0.009431
Std Dev 0.8627

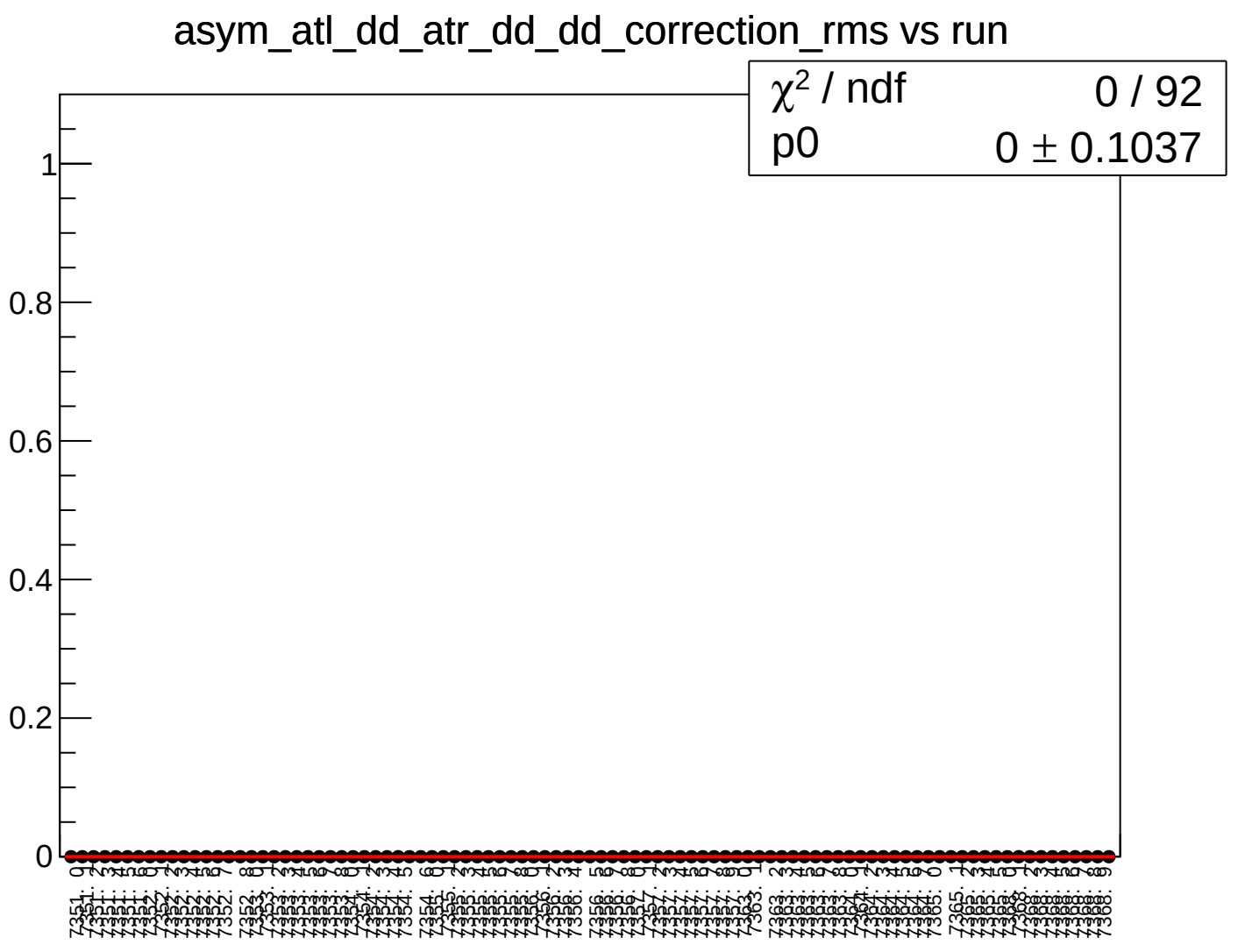

asym_atl_dd_atr_dd_avg_rms vs run
χ² / ndf 1.368e+04 / 92
p0 5487 ± 4.148
7500
7000
6500
6000
5500
5000

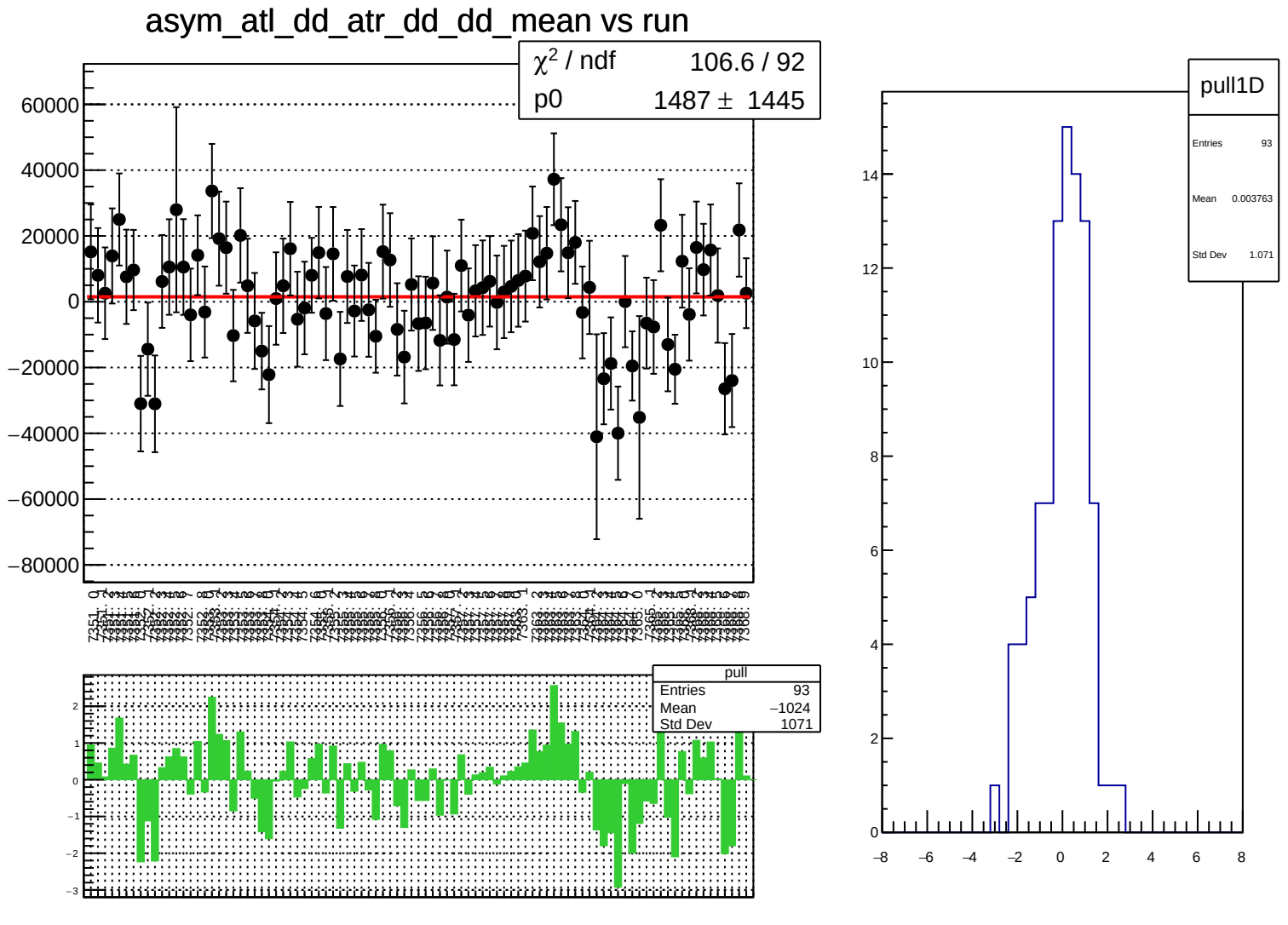

reg_asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.6 / 92
p0 1487 ± 1445
pull
Entries 93
Mean −1024
Std Dev 1071
pull1D
Entries 93
Mean 0.003763
Std Dev 1.071

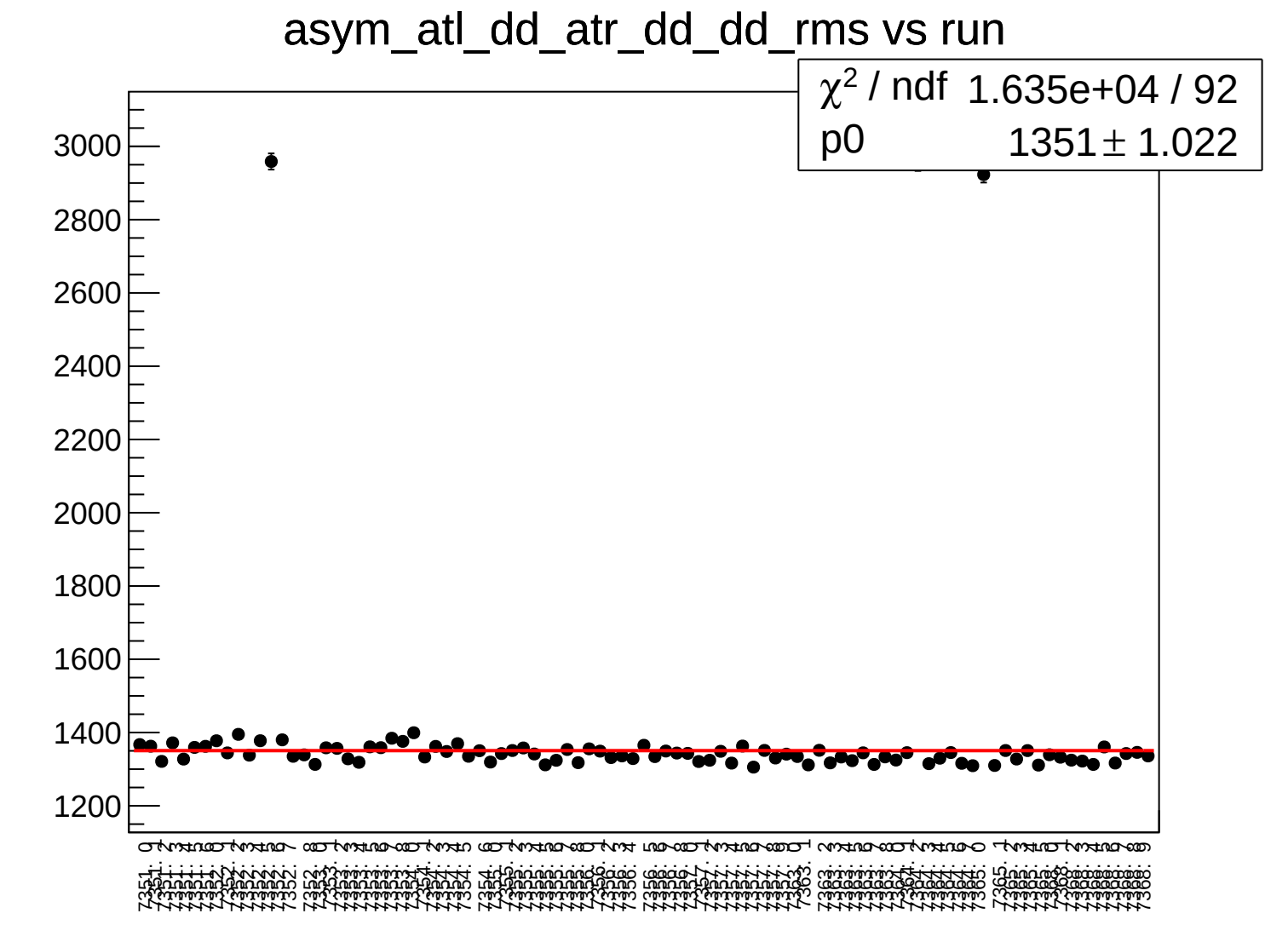

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 1.635e+04 / 92
p0 1351 ± 1.022
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

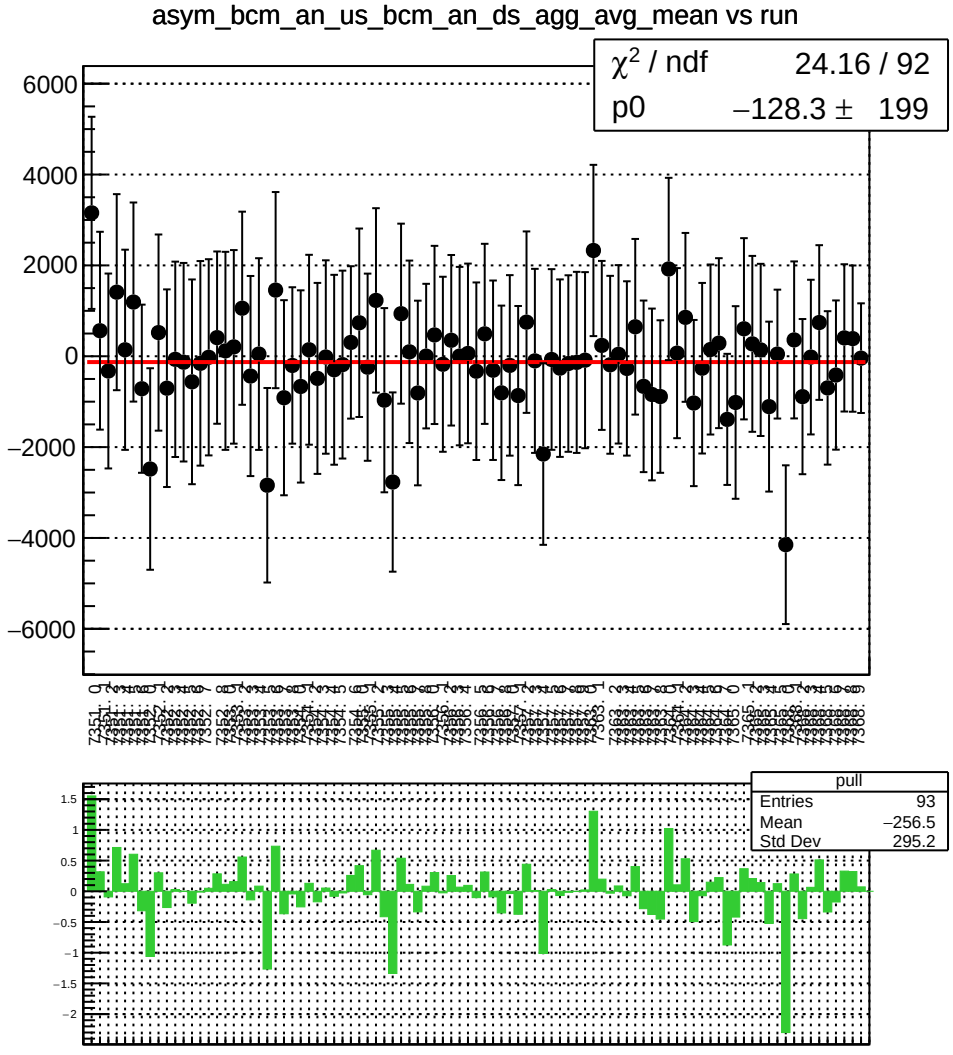

asym_atl_dd_atr_dd_dd_correction_mean vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

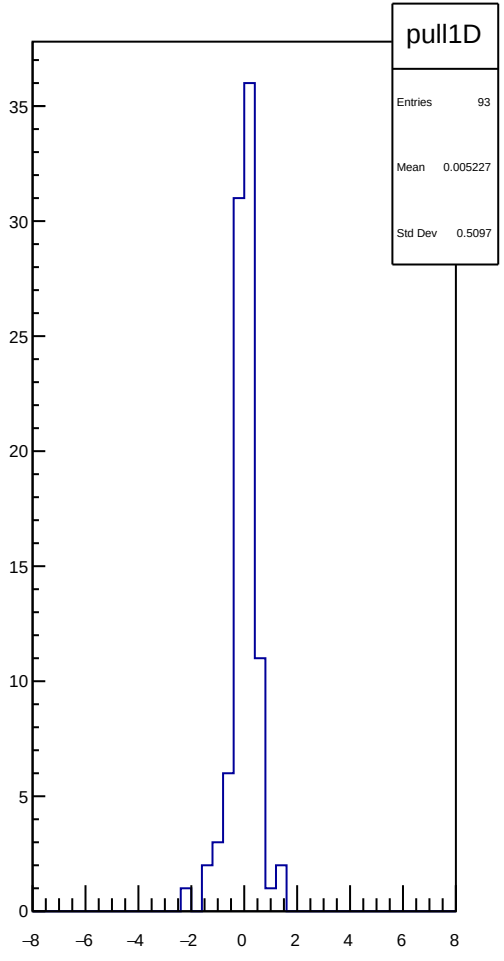

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

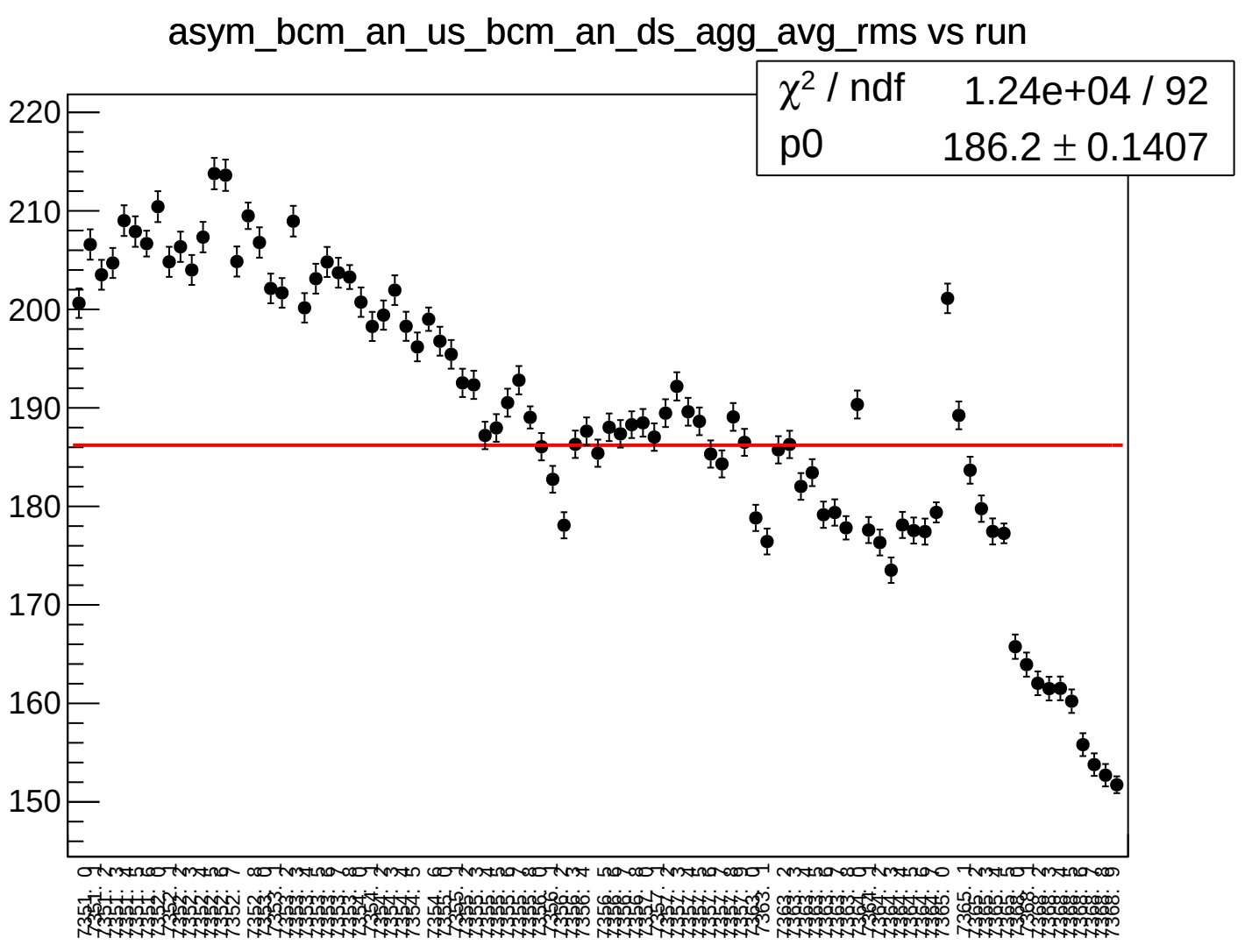

asym_atl_dd_atr_dd_dd_correction_rms vs run
χ² / ndf 0 / 92
p0 0 ± 0.1037
1
0.8
0.6
0.4
0.2
0

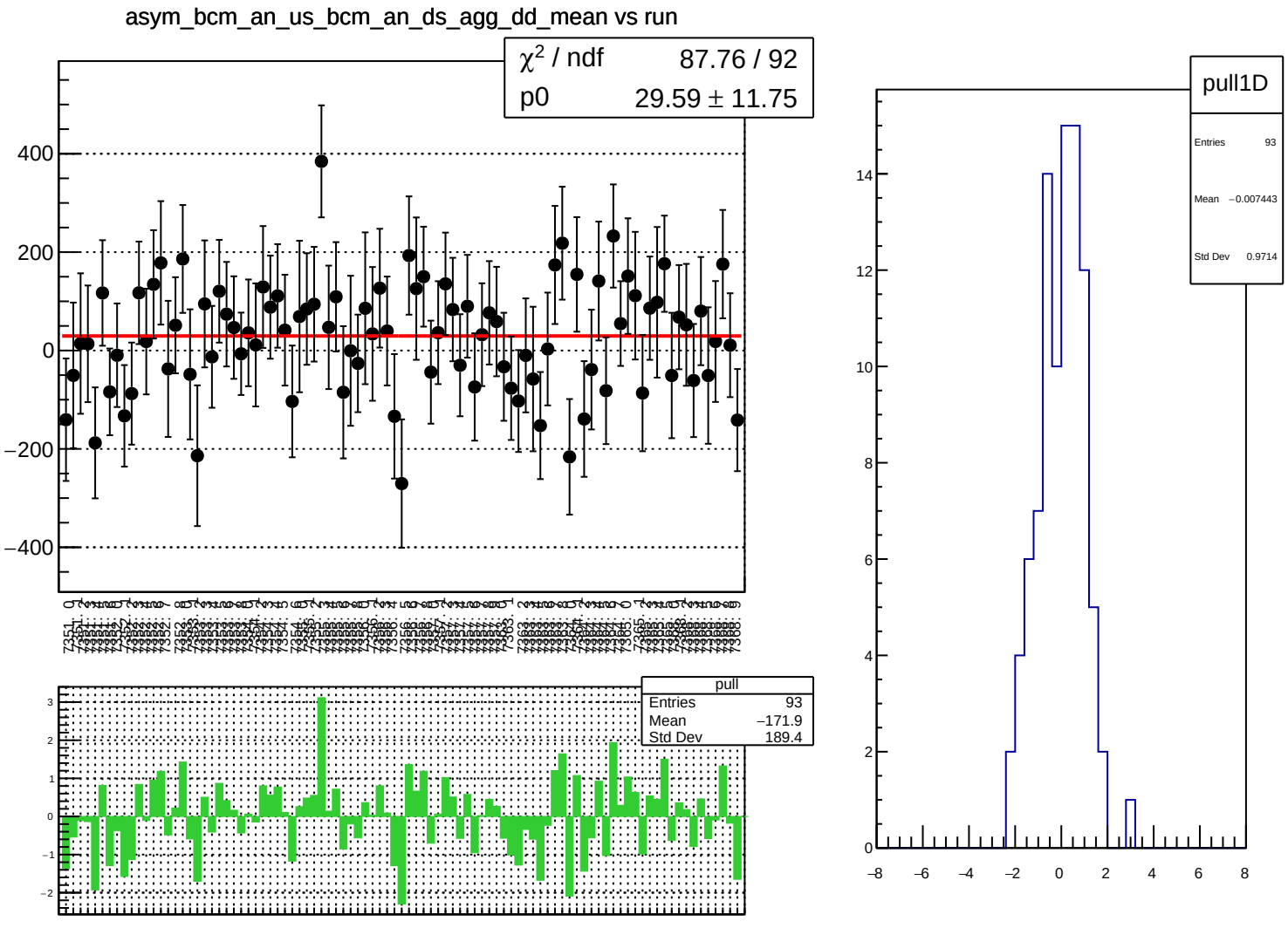

asym_atl_dd_atr_dd_dd_mean vs run
χ² / ndf 106.6 / 92
p0 1487 ± 1445
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 93
Mean −1024
Std Dev 1071
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.003763
Std Dev 1.071
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

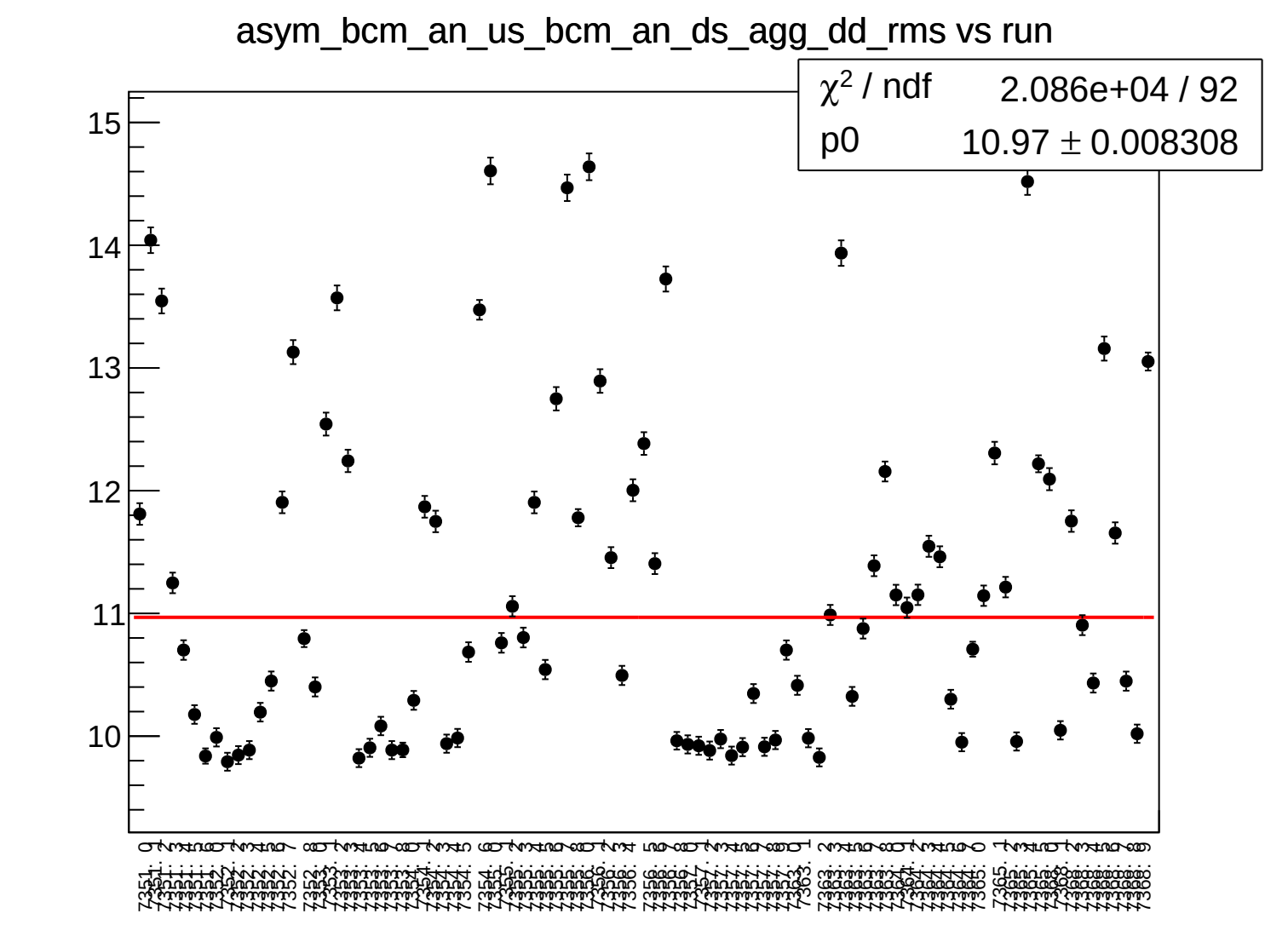

asym_atl_dd_atr_dd_dd_rms vs run
χ² / ndf 1.635e+04 / 92
p0 1351 ± 1.022
3000
2800
2600
2400
2200
2000
1800
1600
1400
1200

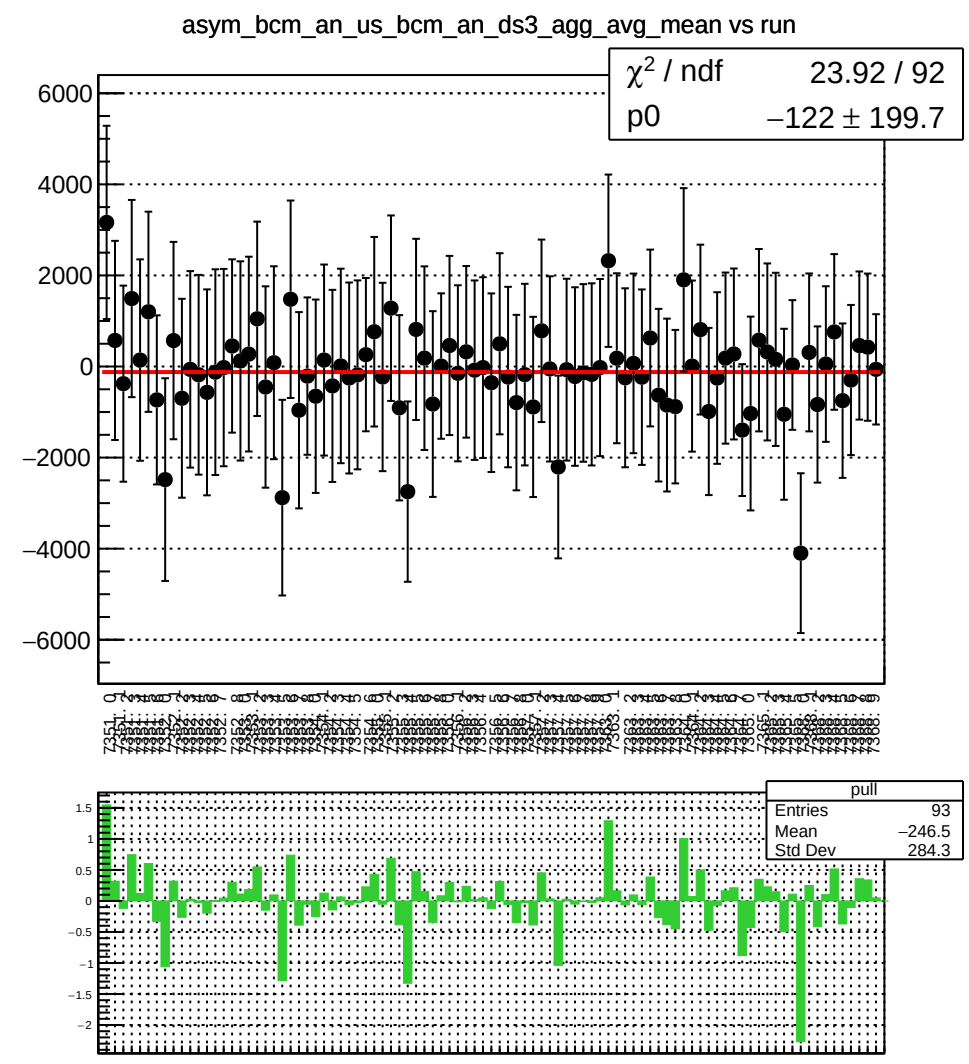

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.16 / 92
p0 −128.3 ± 199
pull
Entries 93
Mean −256.5
Std Dev 295.2

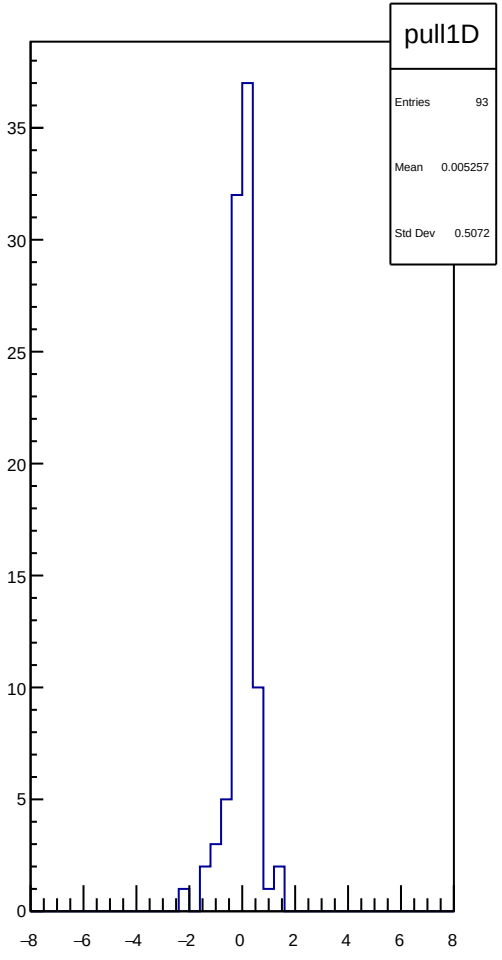

pull1D
Entries 93
Mean 0.005227
Std Dev 0.5097

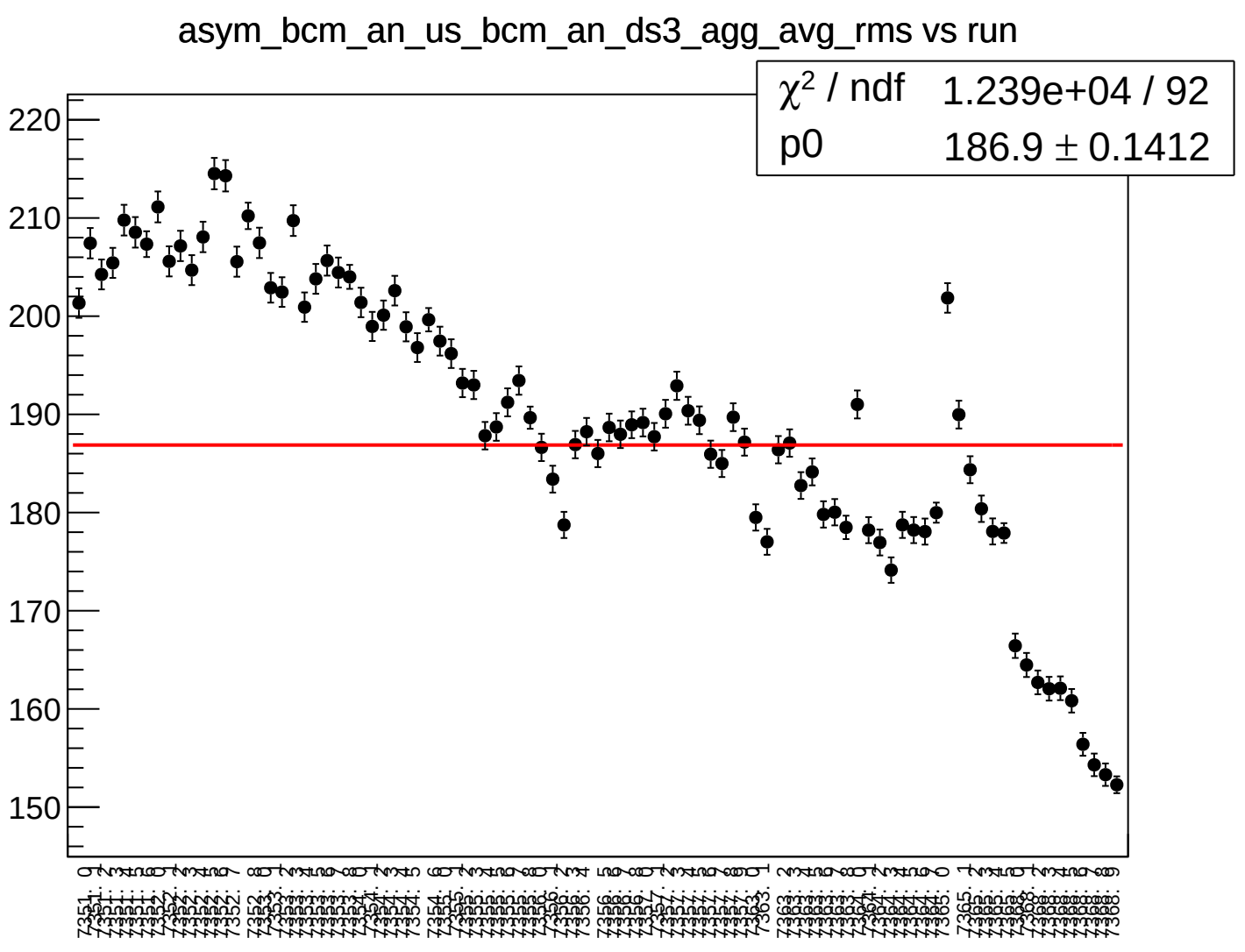

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.24e+04 / 92
p0 186.2 ± 0.1407
220
210
200
190
180
170
160
150

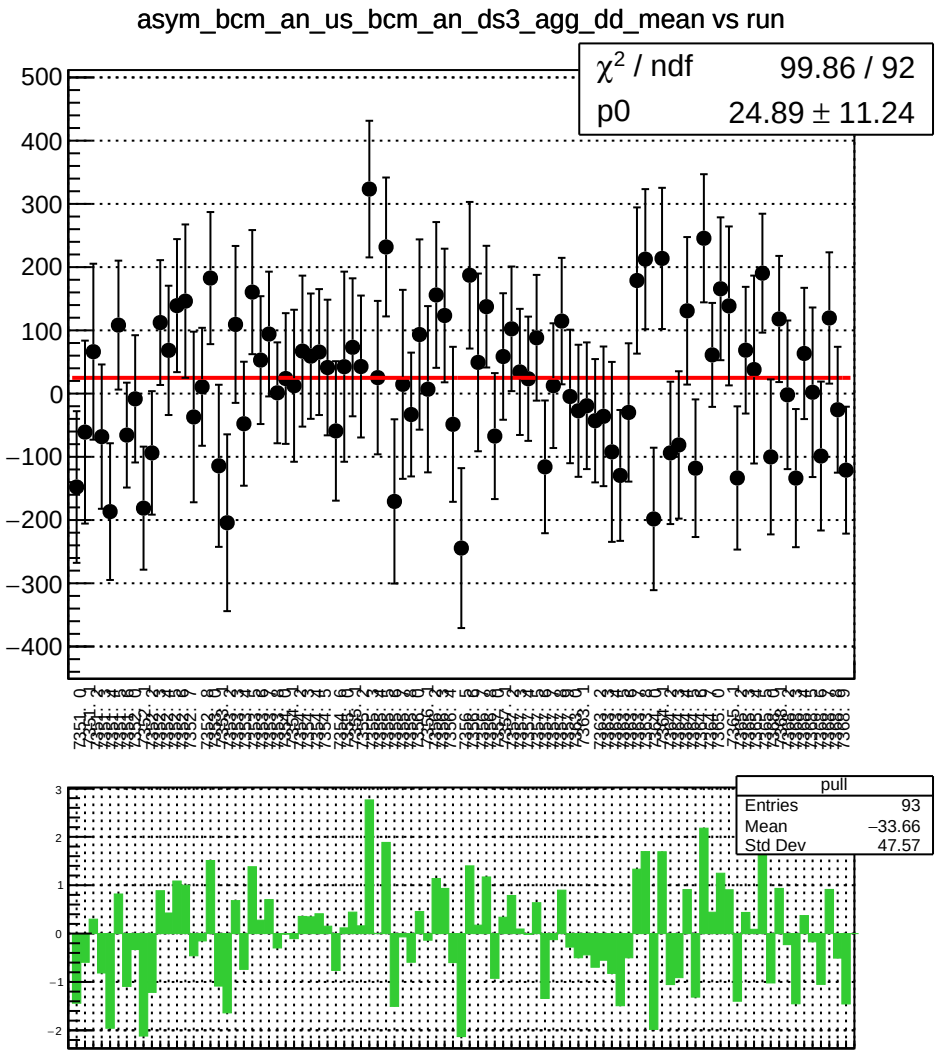

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.76 / 92
p0 29.59 ± 11.75
400
200
0
−200
−400
pull
Entries 93
Mean −171.9
Std Dev 189.4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.007443
Std Dev 0.9714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

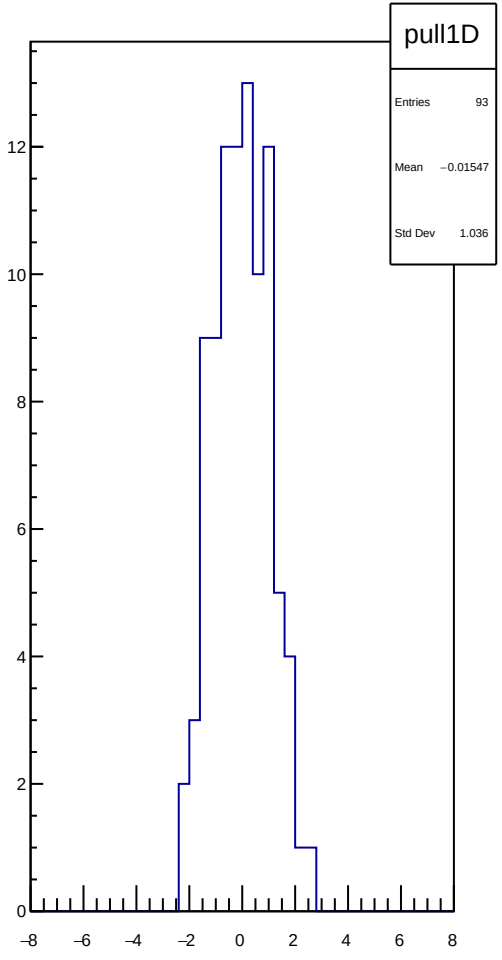

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.086e+04 / 92
p0 10.97 ± 0.008308
15
14
13
12
11
10

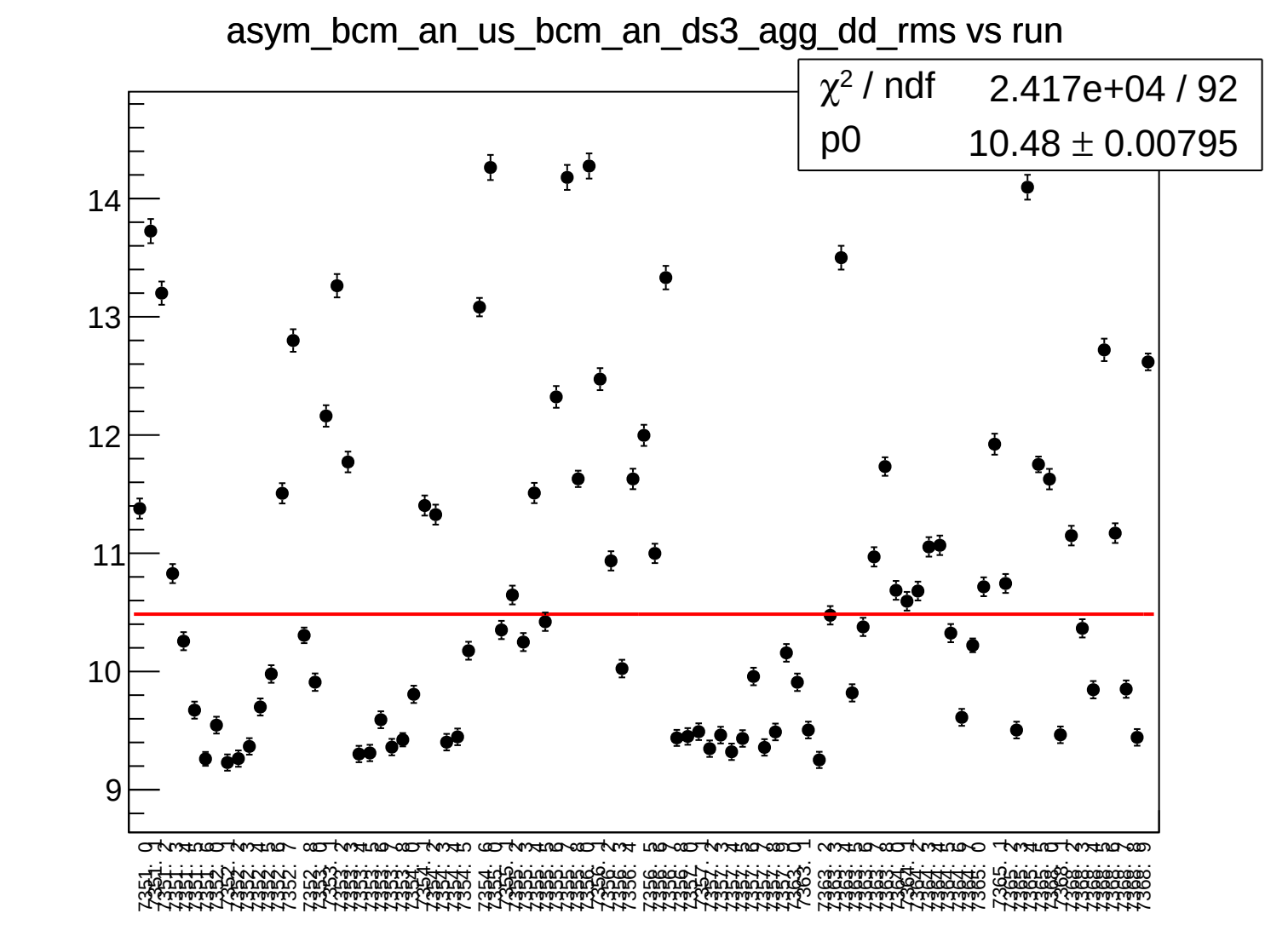

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 23.92 / 92
p0 −122 ± 199.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −246.5
Std Dev 284.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

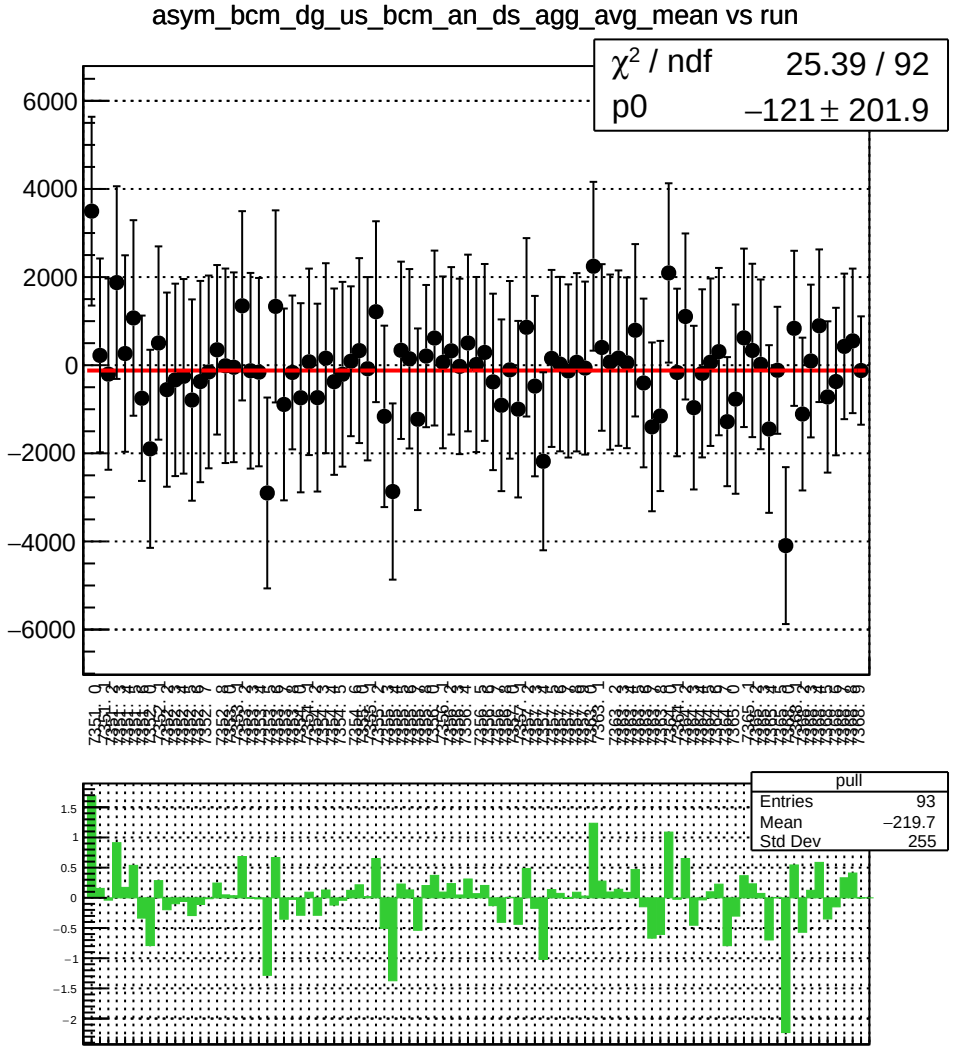

pull1D
Entries 93
Mean 0.005257
Std Dev 0.5072
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

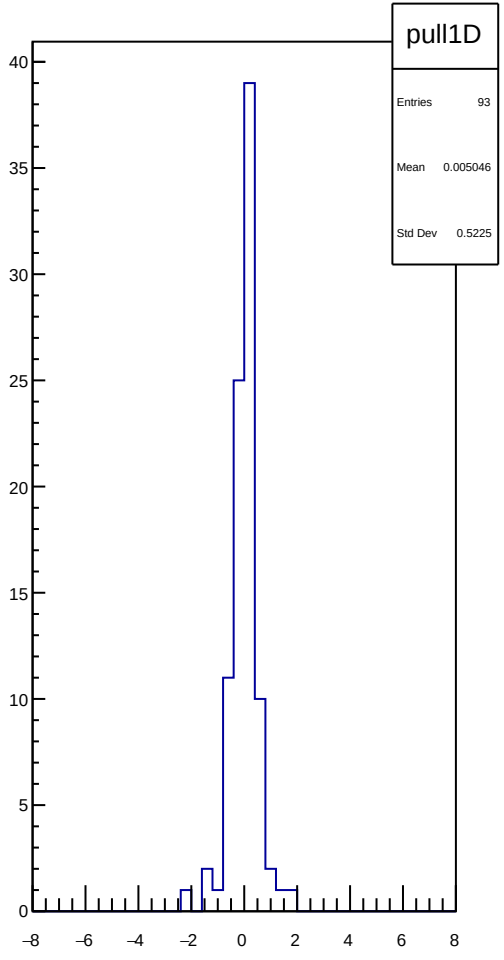

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ^2 / ndf 1.239e+04 / 92
p0 186.9 ± 0.1412
220
210
200
190
180
170
160
150

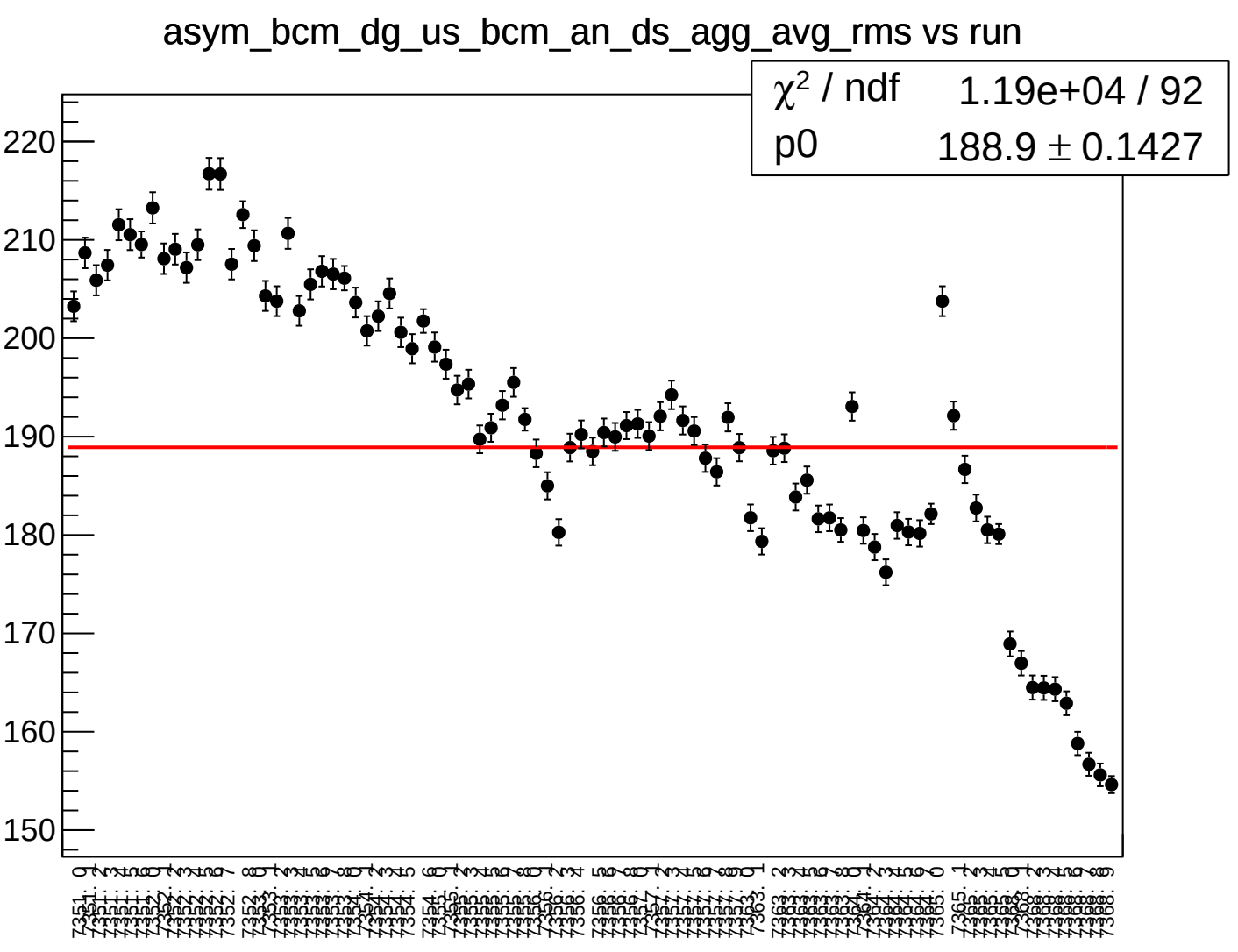

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 99.86 / 92
p0 24.89 ± 11.24
pull
Entries 93
Mean −33.66
Std Dev 47.57

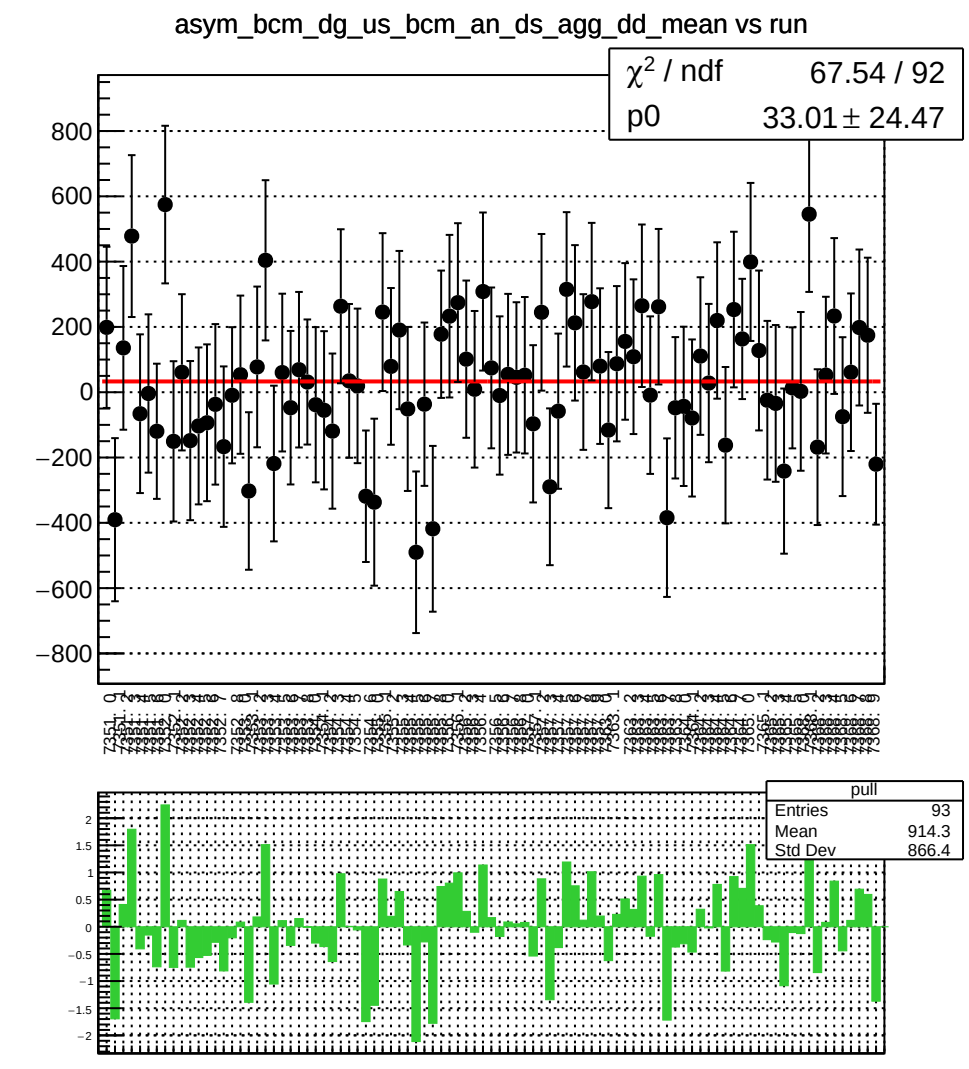

pull1D
Entries 93
Mean −0.01547
Std Dev 1.036

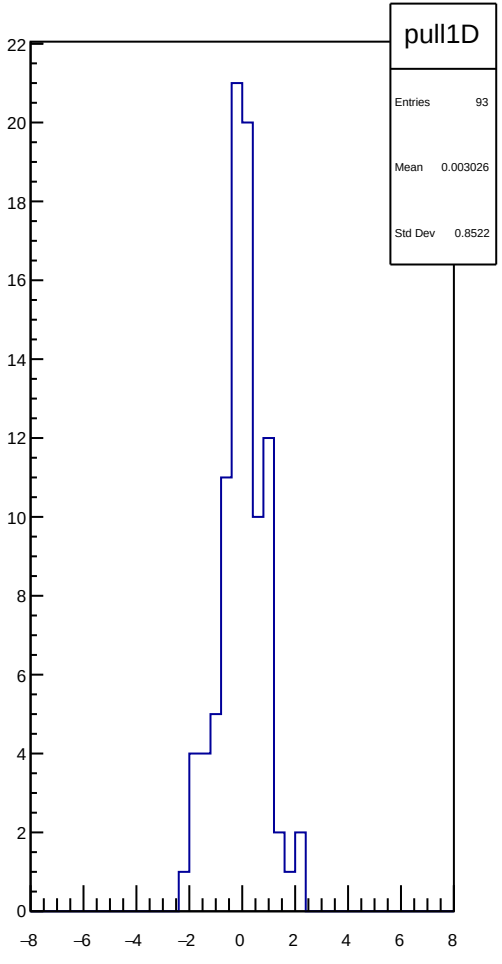

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.417e+04 / 92
p0 10.48 ± 0.00795
14
13
12
11
10
9

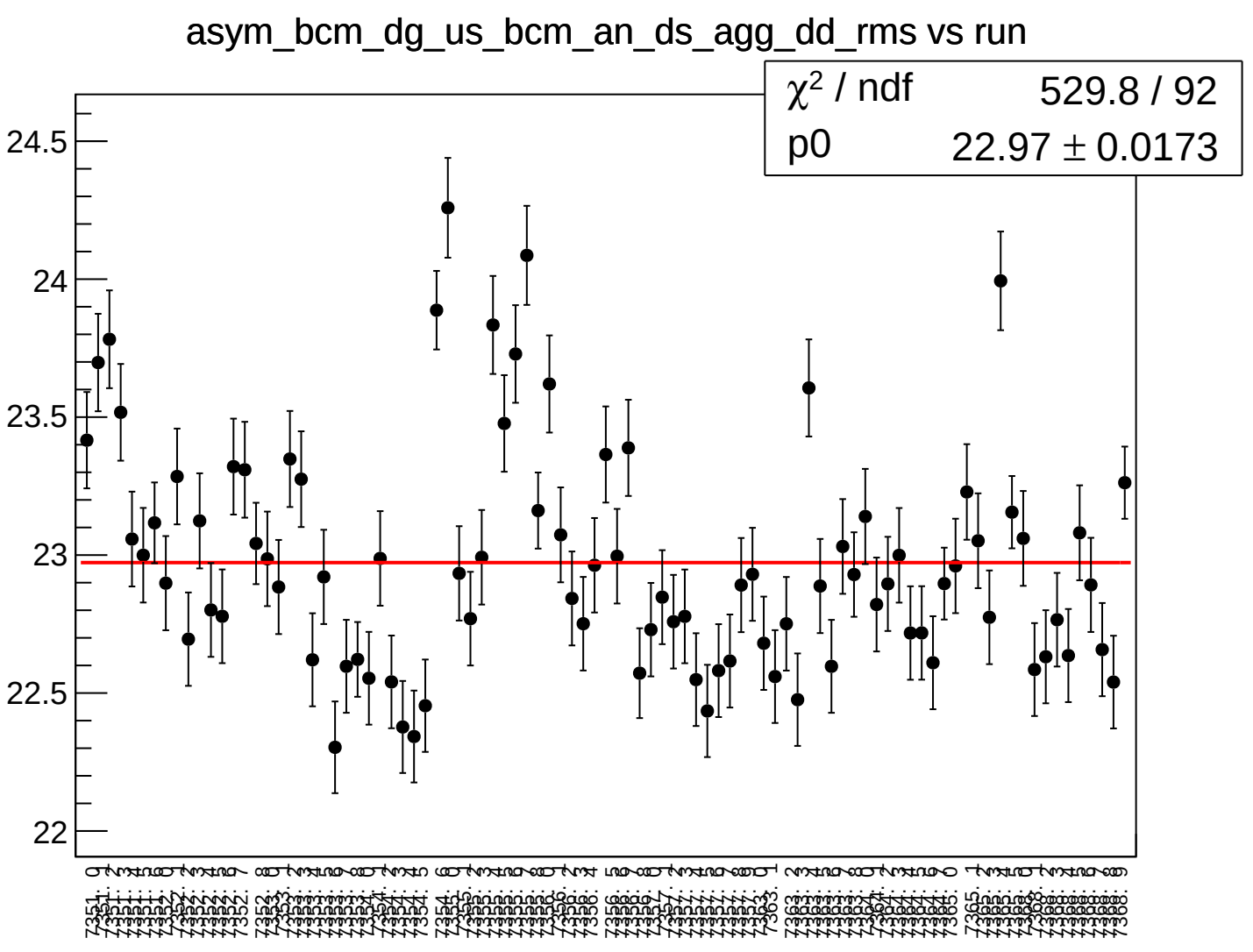

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.39 / 92
p0 −121 ± 201.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −219.7
Std Dev 255
1.5
1
0.5
0
−0.5
−1
−1.5
−2

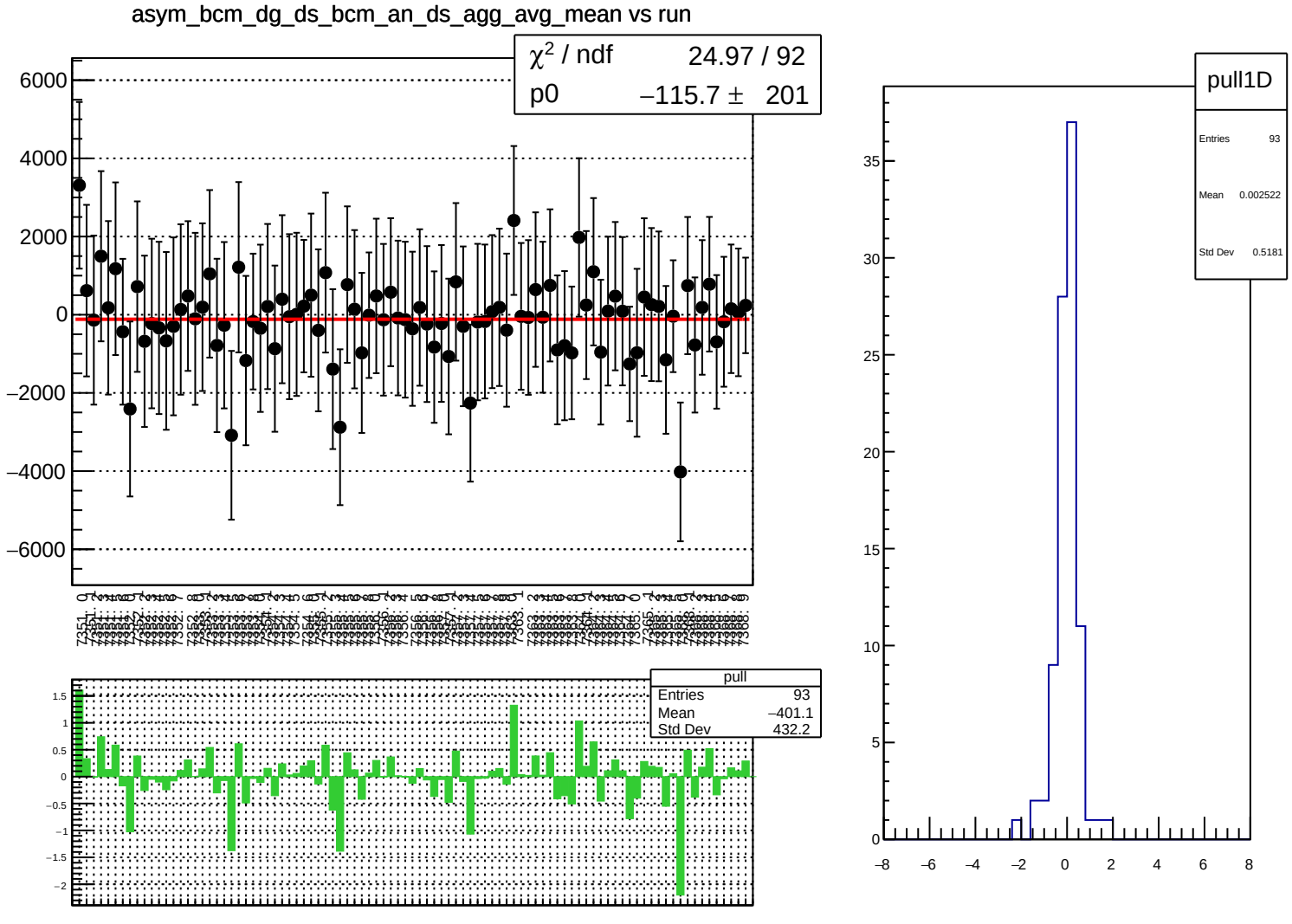

pull1D
Entries 93
Mean 0.005046
Std Dev 0.5225
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

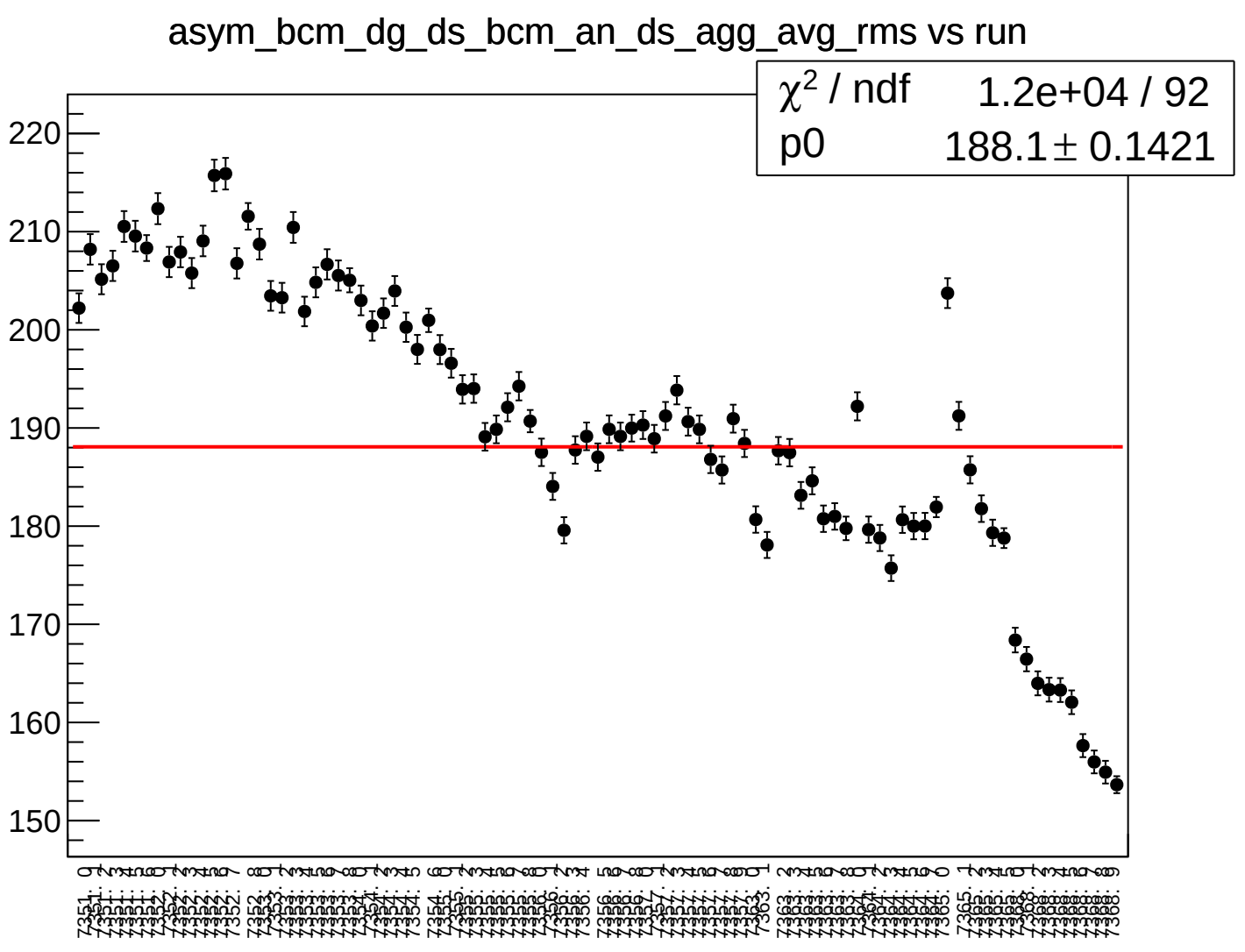

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.19e+04 / 92
p0 188.9 ± 0.1427
220
210
200
190
180
170
160
150

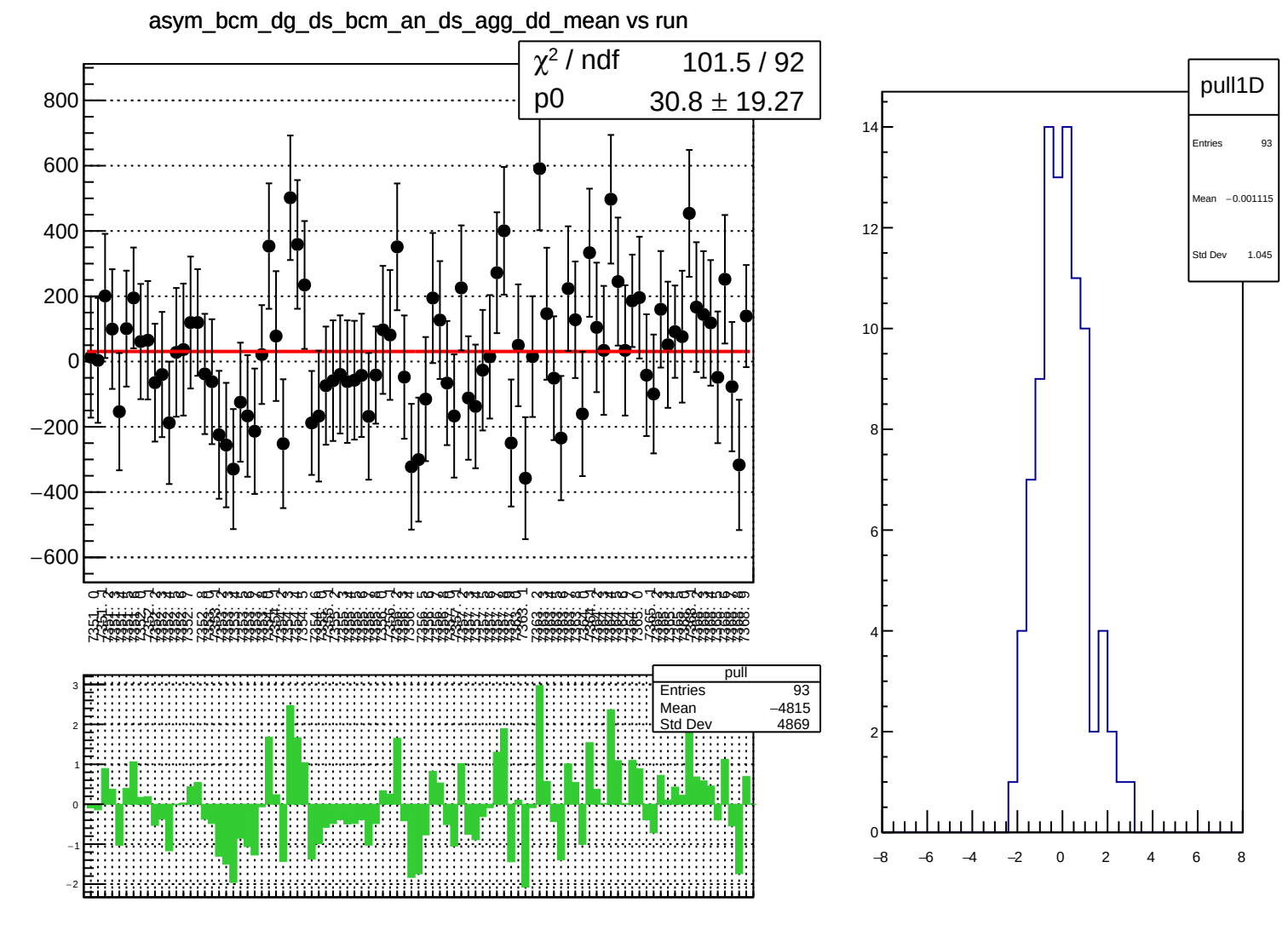

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.54 / 92
p0 33.01 ± 24.47
pull
Entries 93
Mean 914.3
Std Dev 866.4

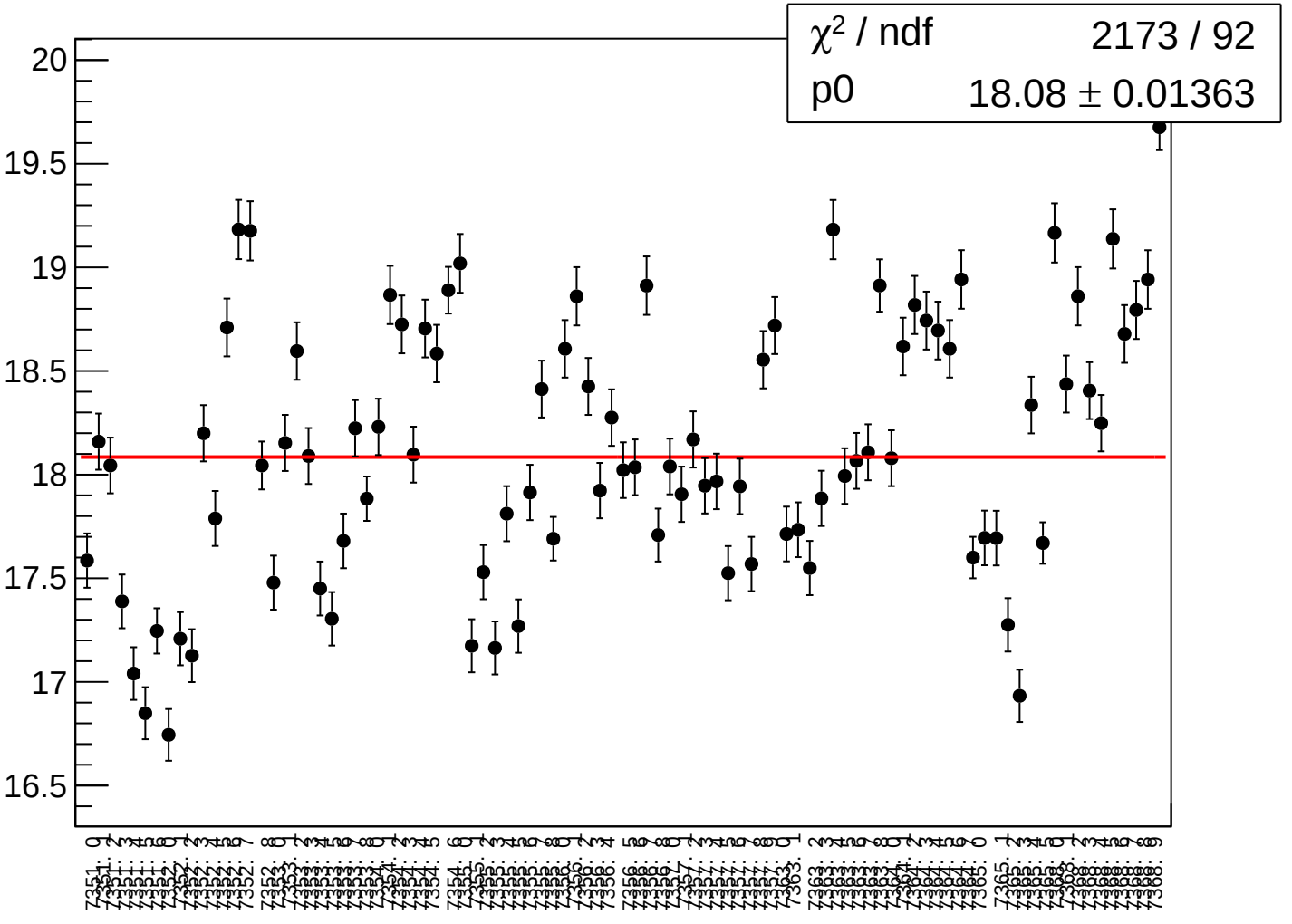

pull1D
Entries 93
Mean 0.003026
Std Dev 0.8522

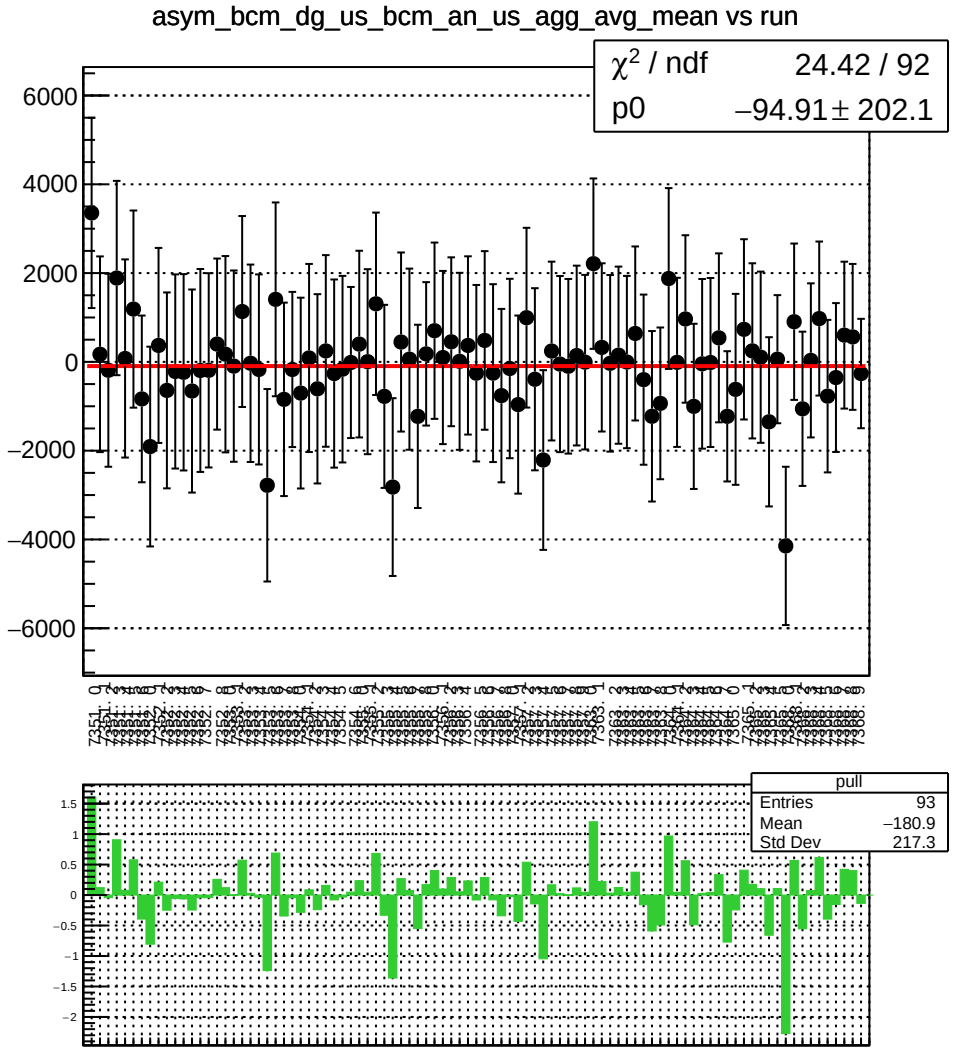

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 529.8 / 92
p0 22.97 ± 0.0173
24.5
24
23.5
23
22.5
22

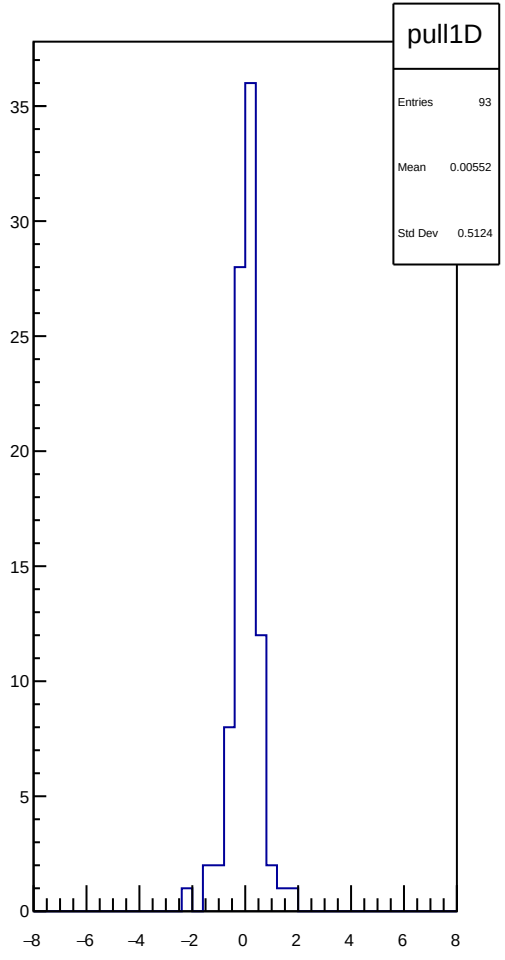

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.97 / 92
p0 −115.7 ± 201
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −401.1
Std Dev 432.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.002522
Std Dev 0.5181
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

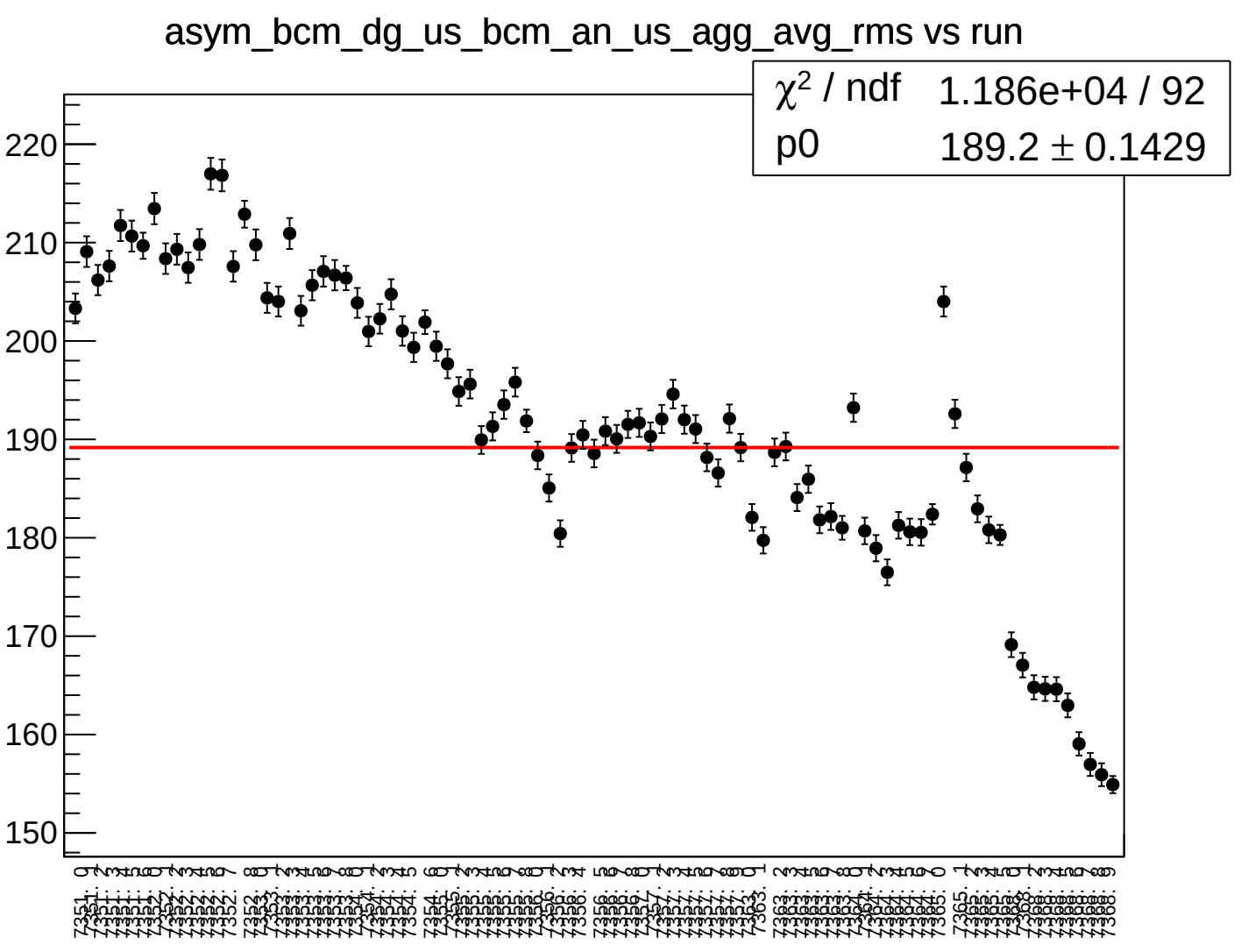

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 1.2e+04 / 92
p0 188.1 ± 0.1421
220
210
200
190
180
170
160
150

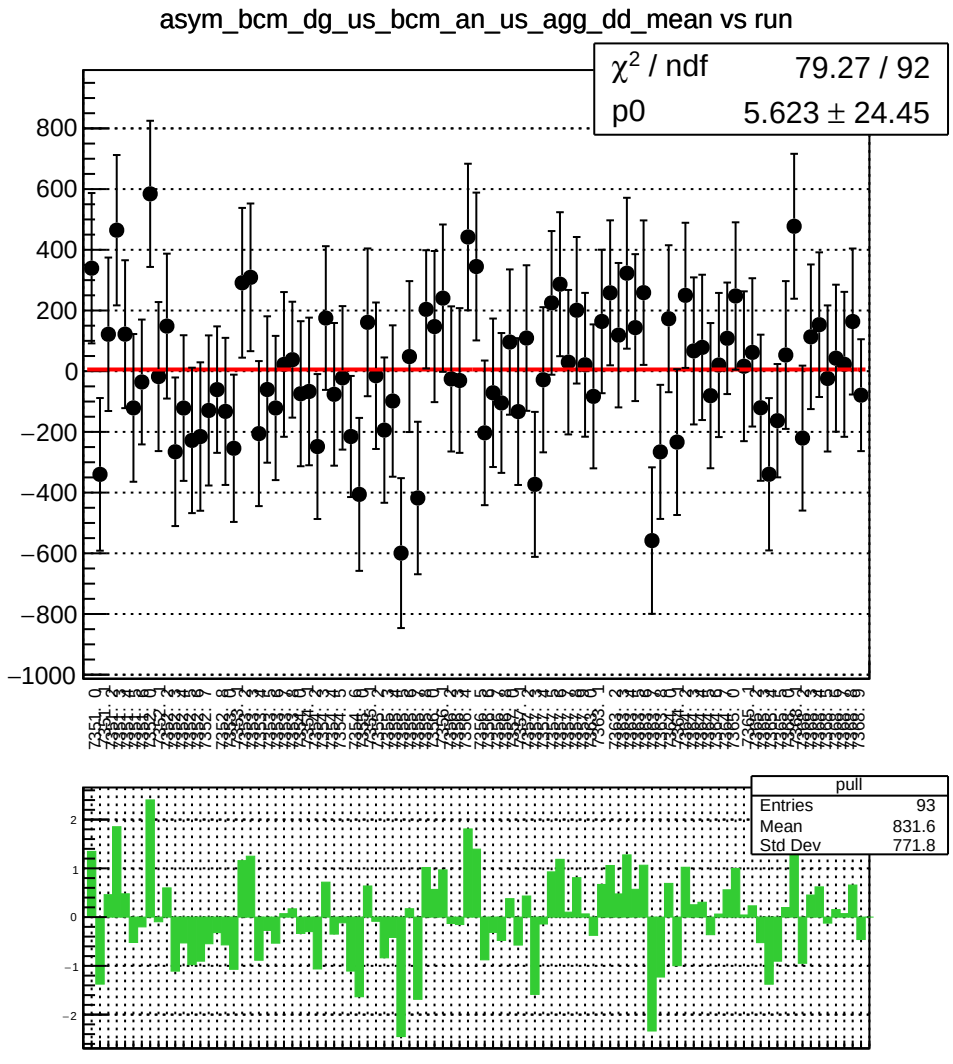

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 101.5 / 92
p0 30.8 ± 19.27
pull
Entries 93
Mean −4815
Std Dev 4869
pull1D
Entries 93
Mean −0.001115
Std Dev 1.045

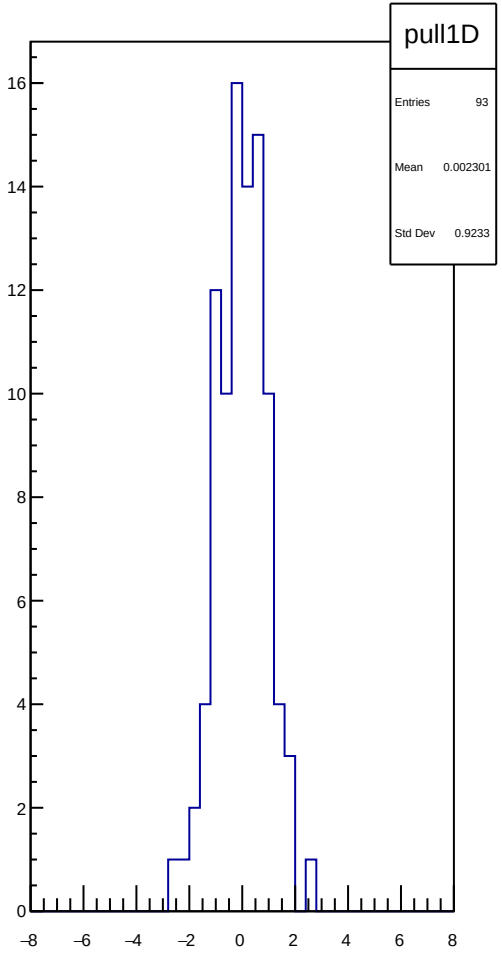

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2173 / 92
p0 18.08 ± 0.01363
20
19.5
19
18.5
18
17.5
17
16.5

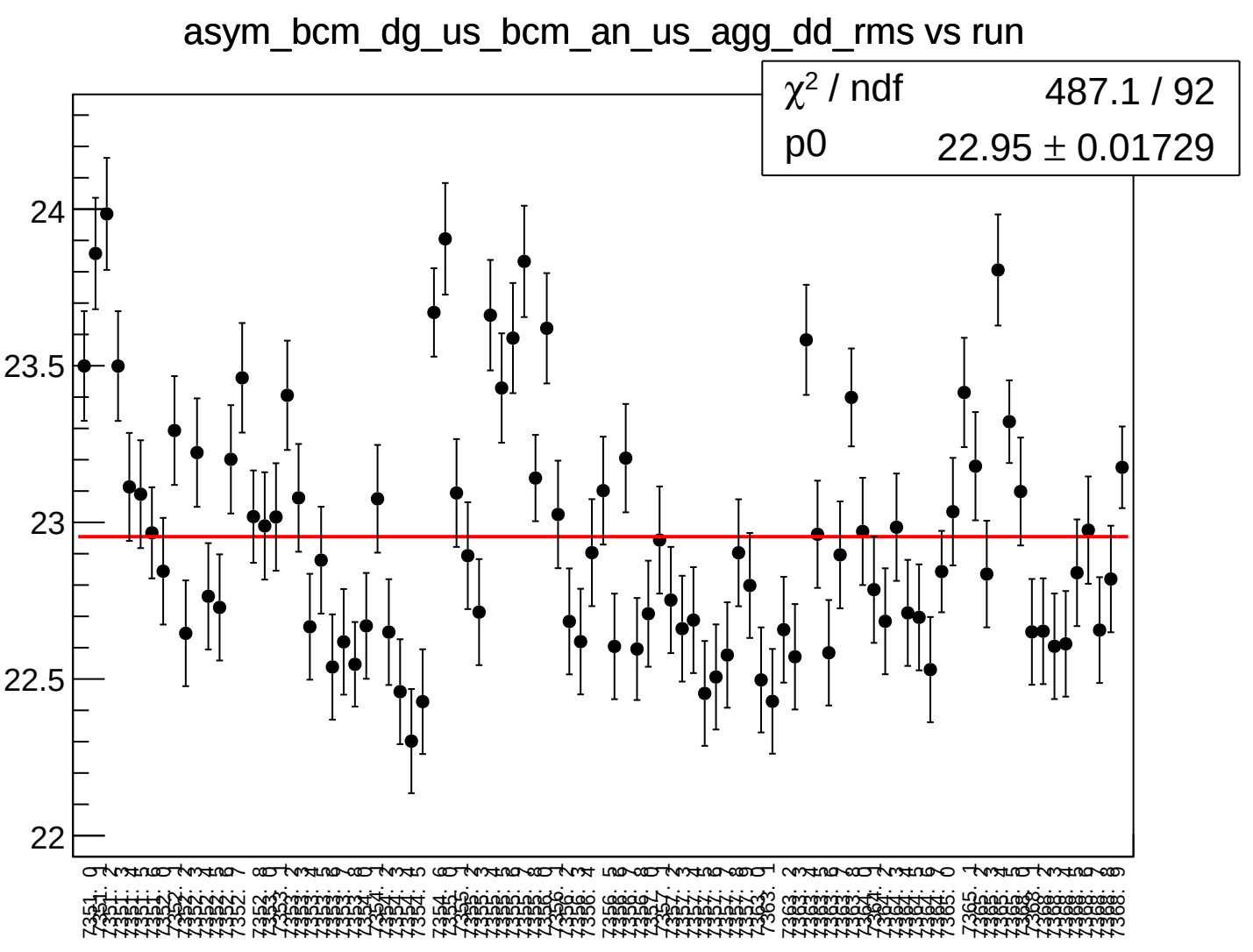

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.42 / 92
p0 −94.91 ± 202.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −180.9
Std Dev 217.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2

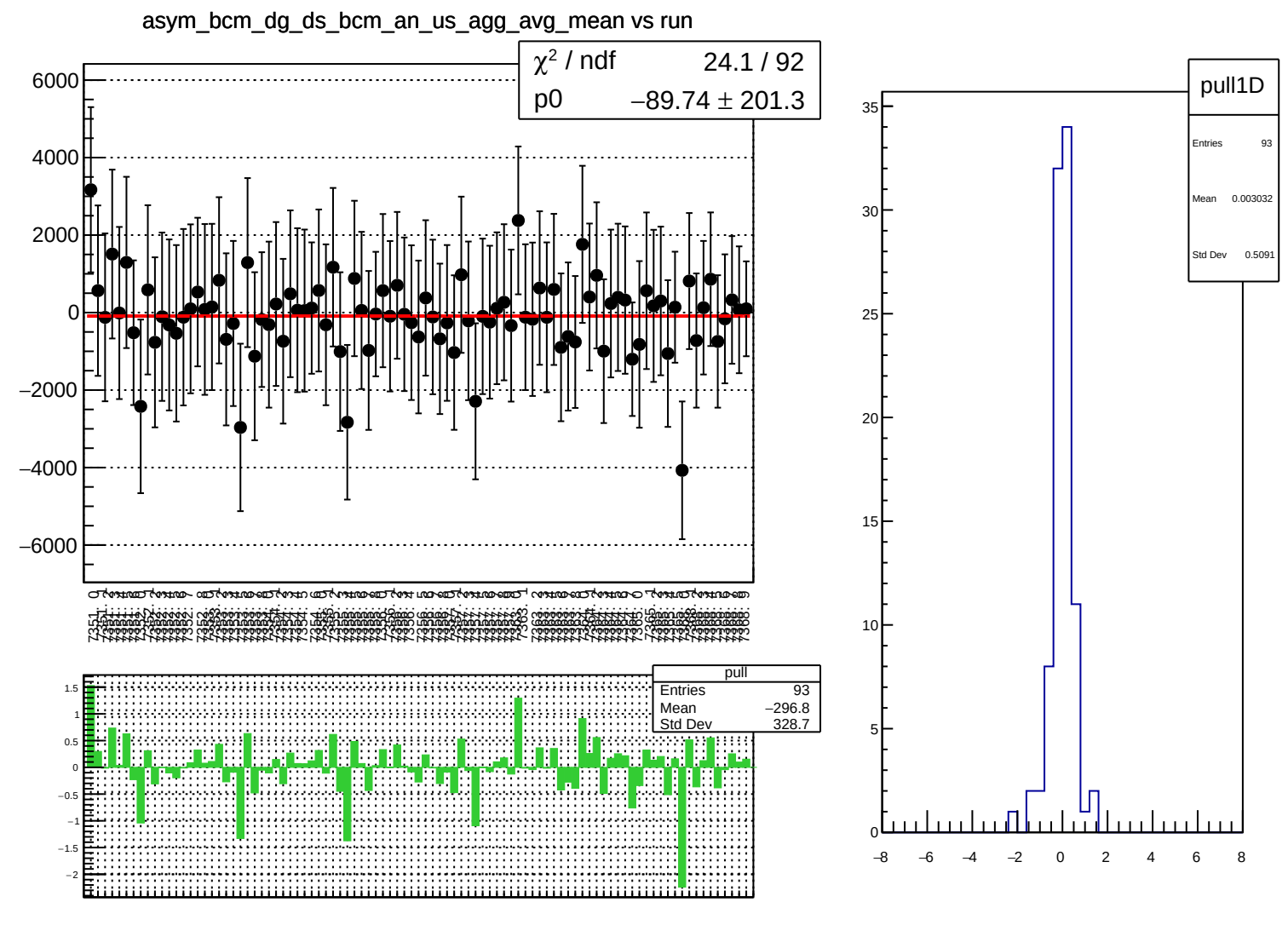

pull1D
Entries 93
Mean 0.00552
Std Dev 0.5124
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

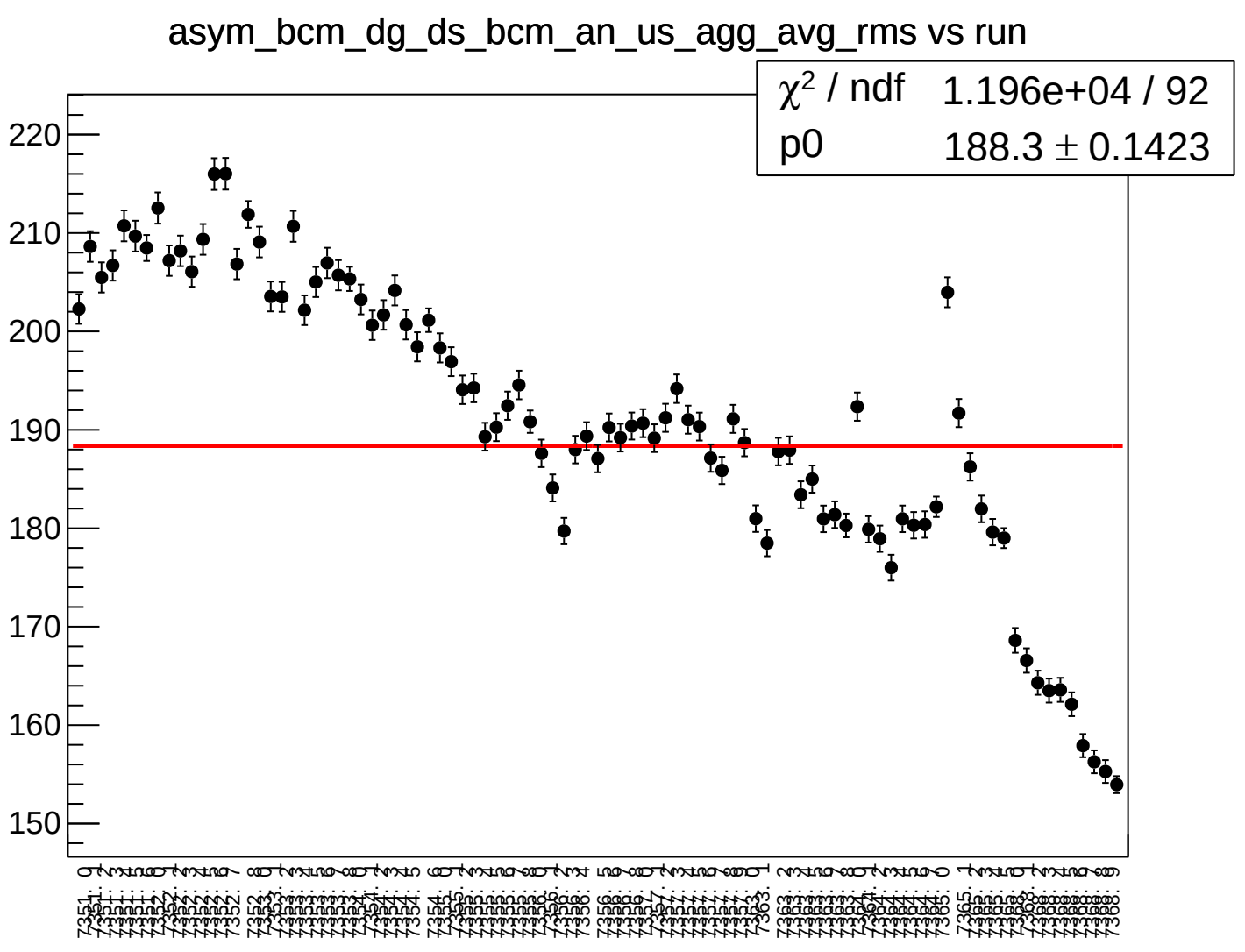

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.186e+04 / 92
p0 189.2 ± 0.1429
220
210
200
190
180
170
160
150

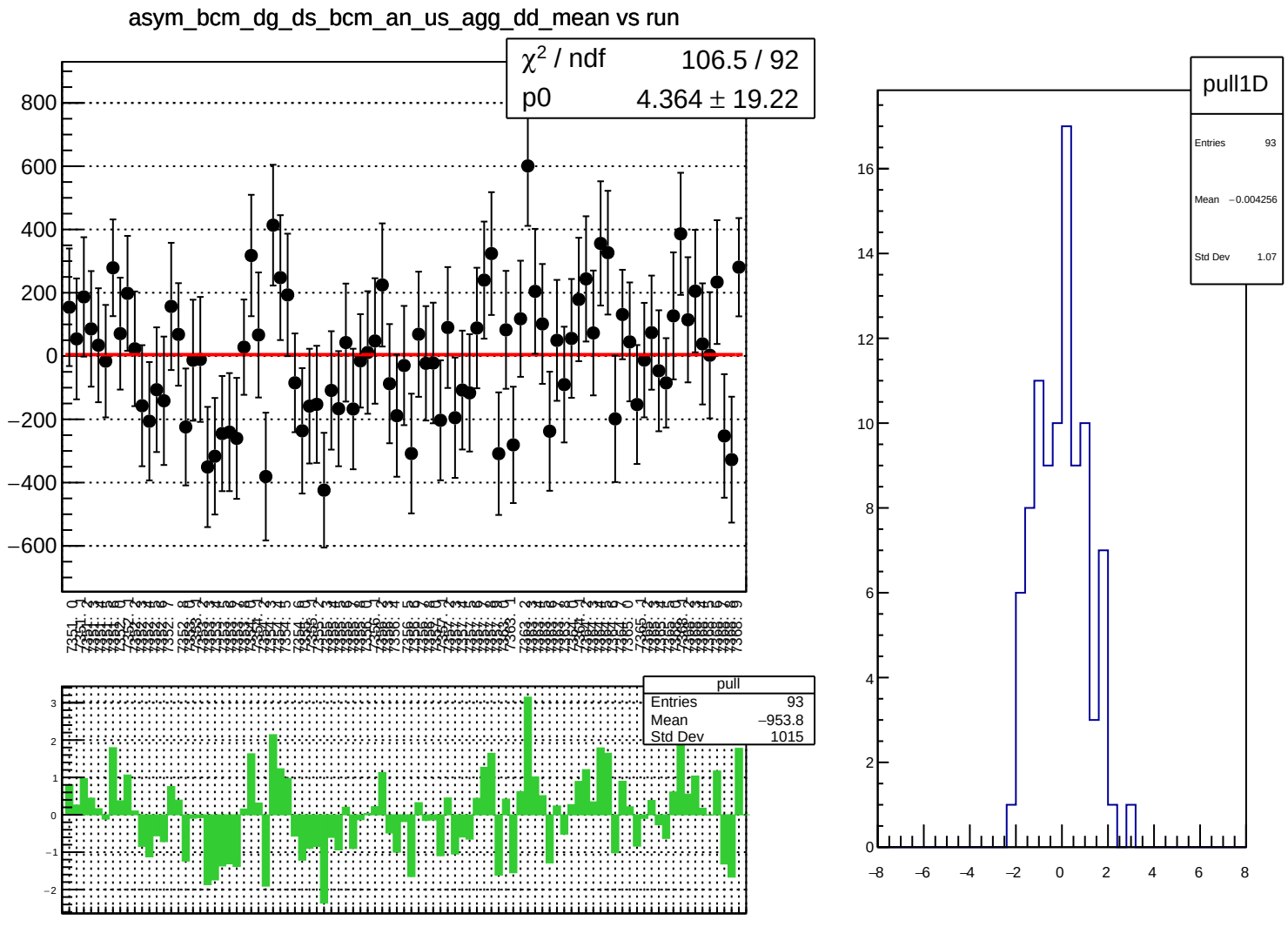

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.27 / 92
p0 5.623 ± 24.45
pull
Entries 93
Mean 831.6
Std Dev 771.8

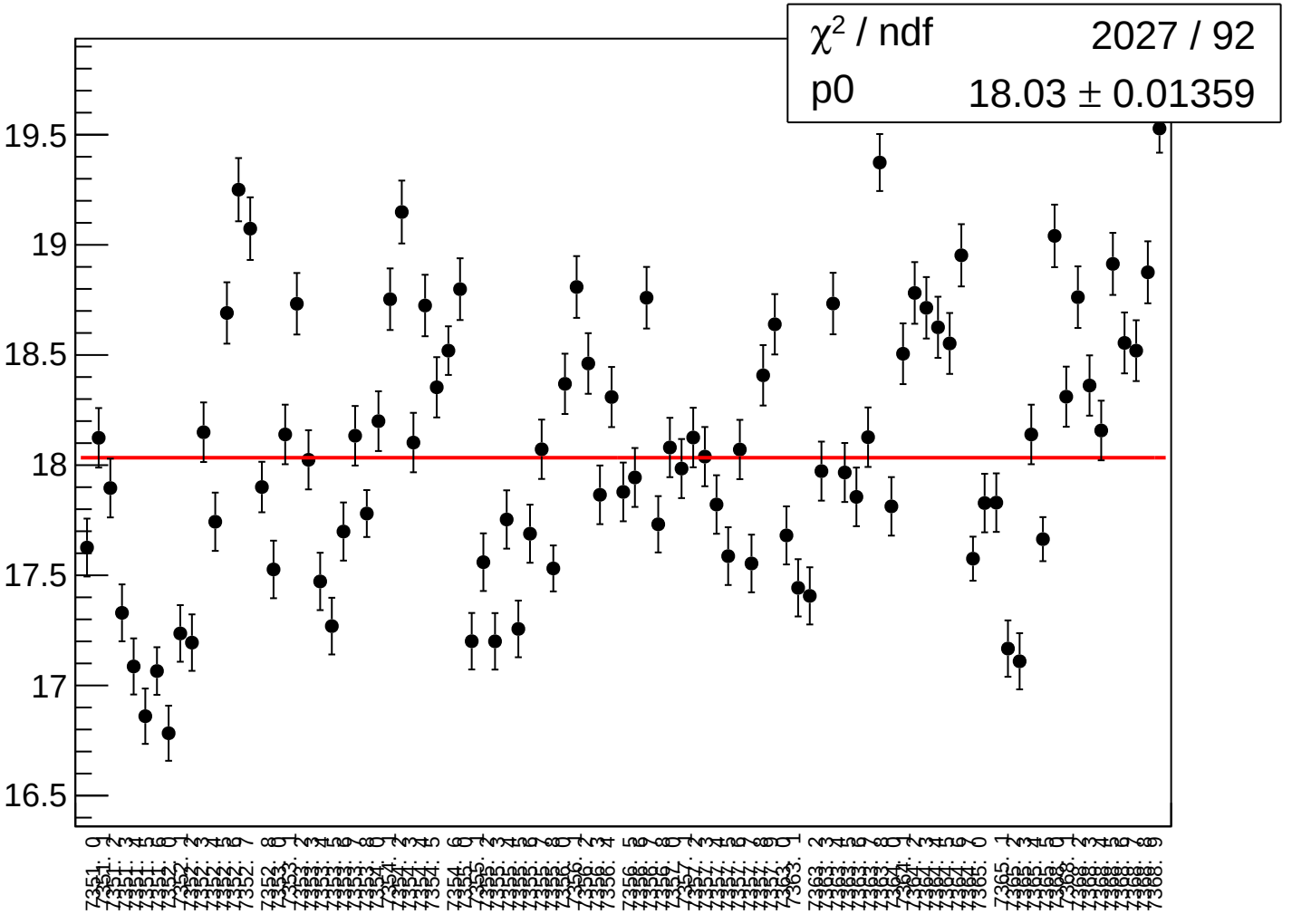

pull1D
Entries 93
Mean 0.002301
Std Dev 0.9233

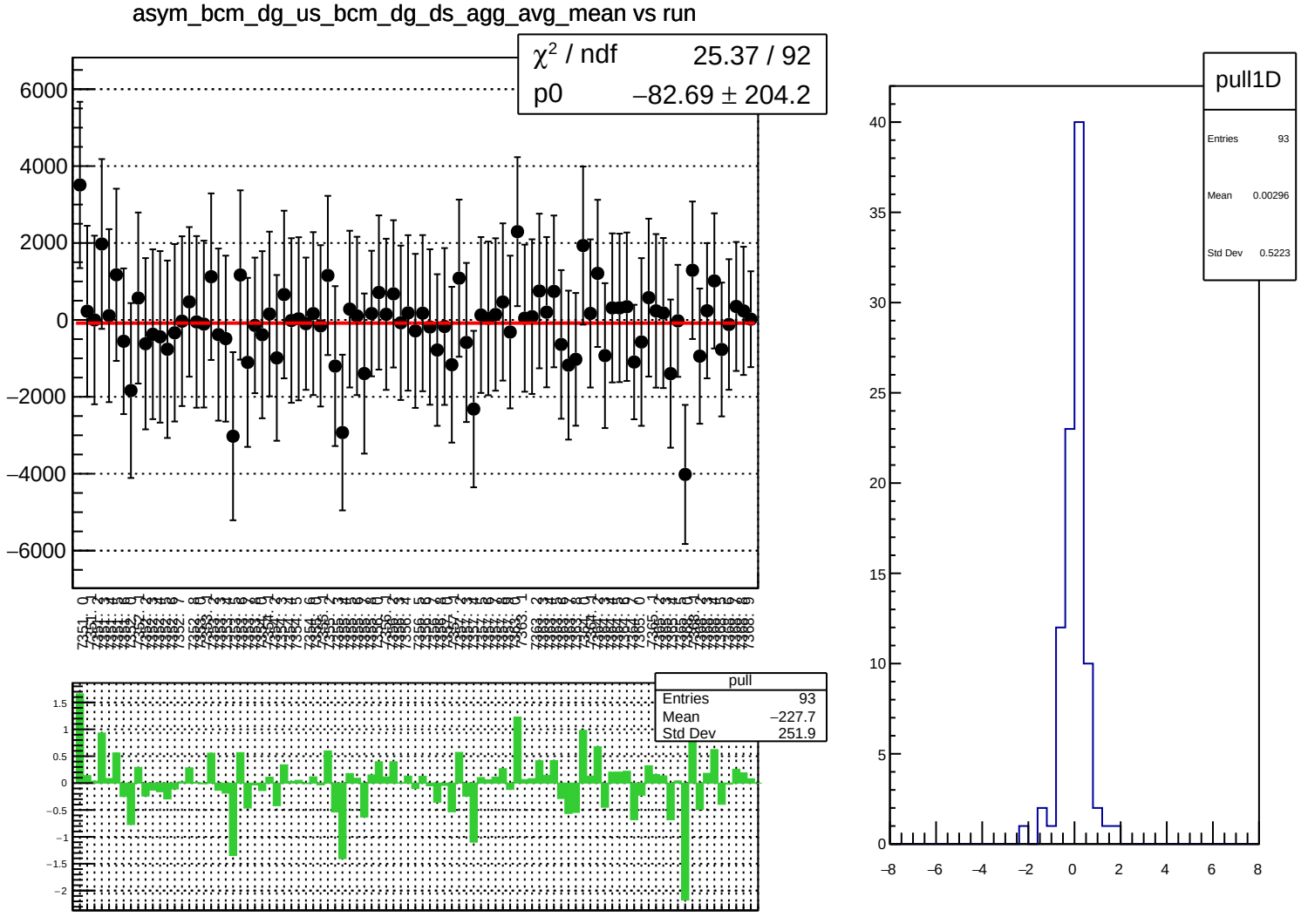

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 487.1 / 92
p0 22.95 ± 0.01729
24
23.5
23
22.5
22

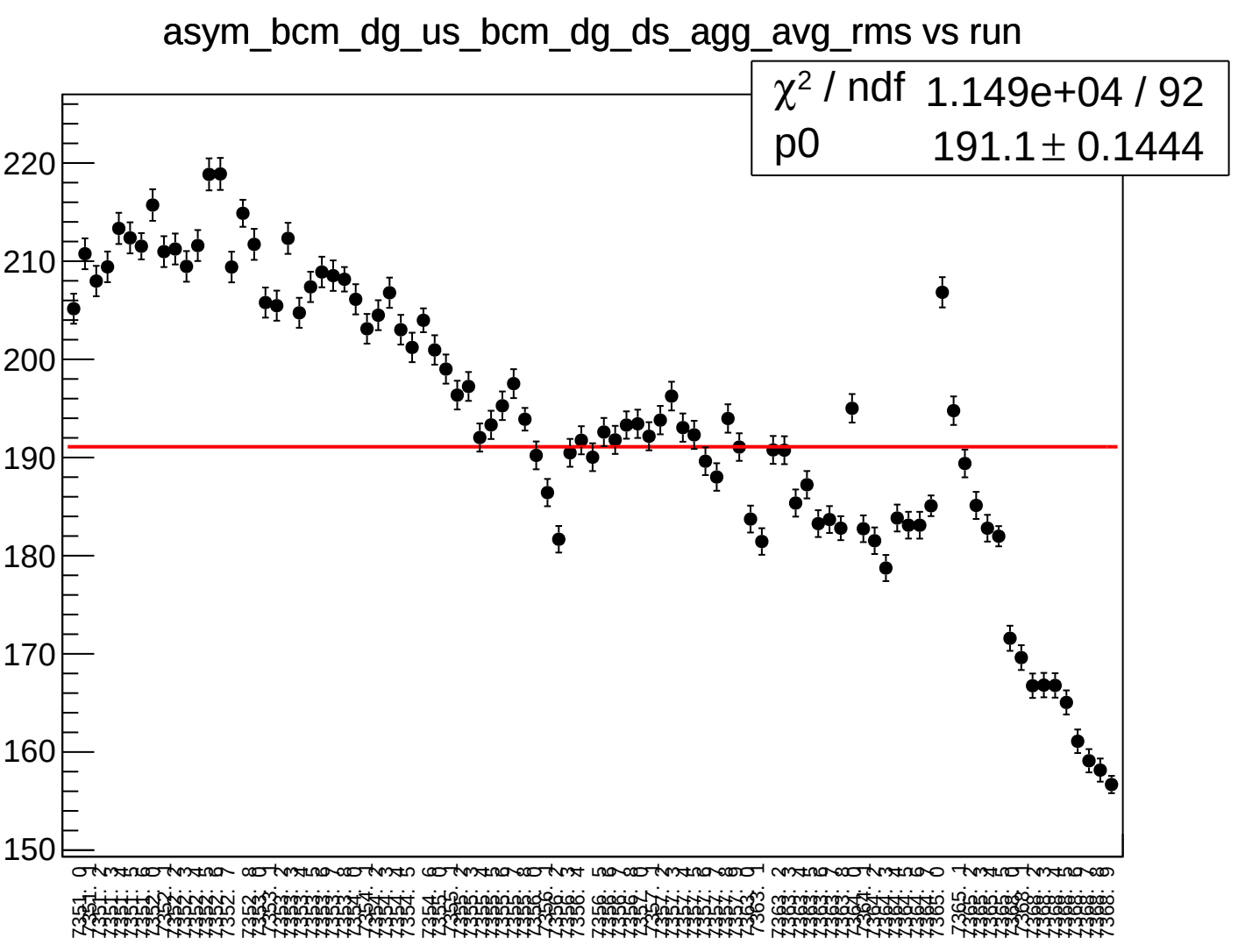

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.1 / 92
p0 −89.74 ± 201.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −296.8
Std Dev 328.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.003032
Std Dev 0.5091
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

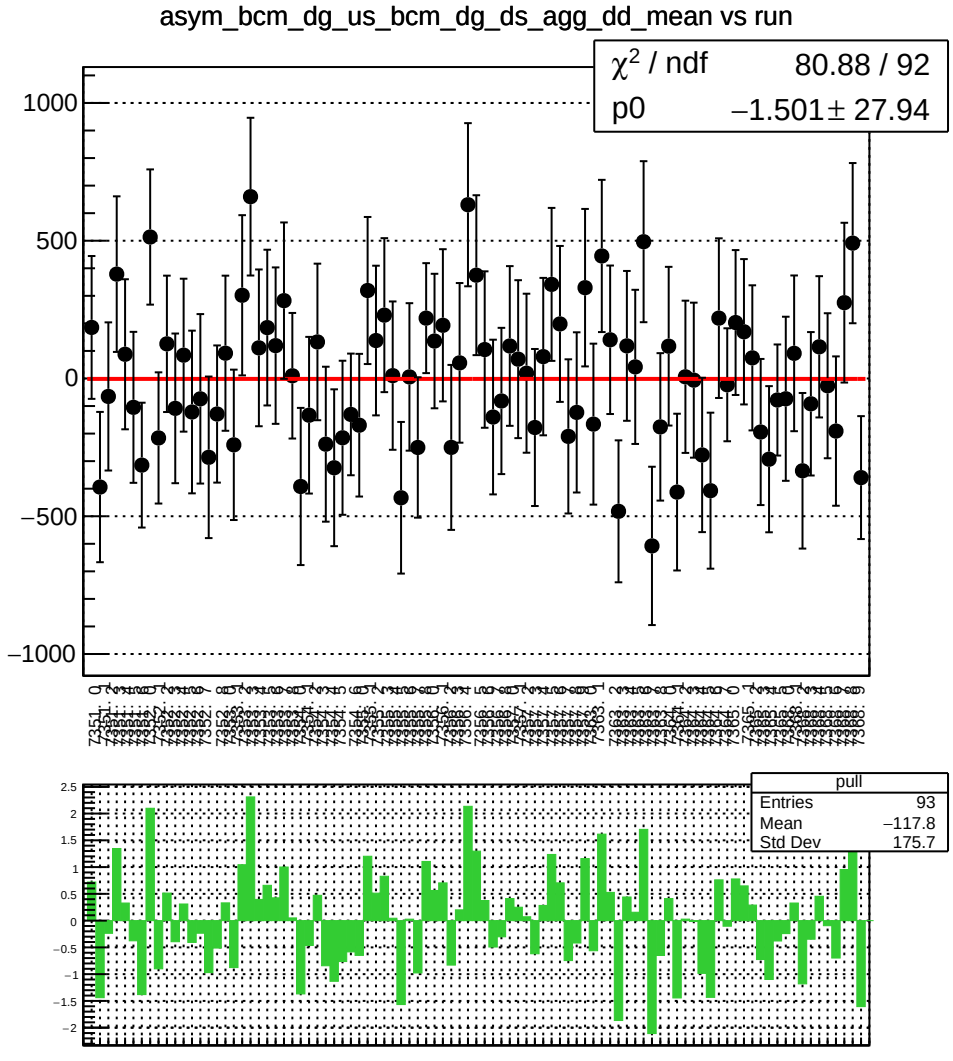

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 1.196e+04 / 92
p0 188.3 ± 0.1423
220
210
200
190
180
170
160
150

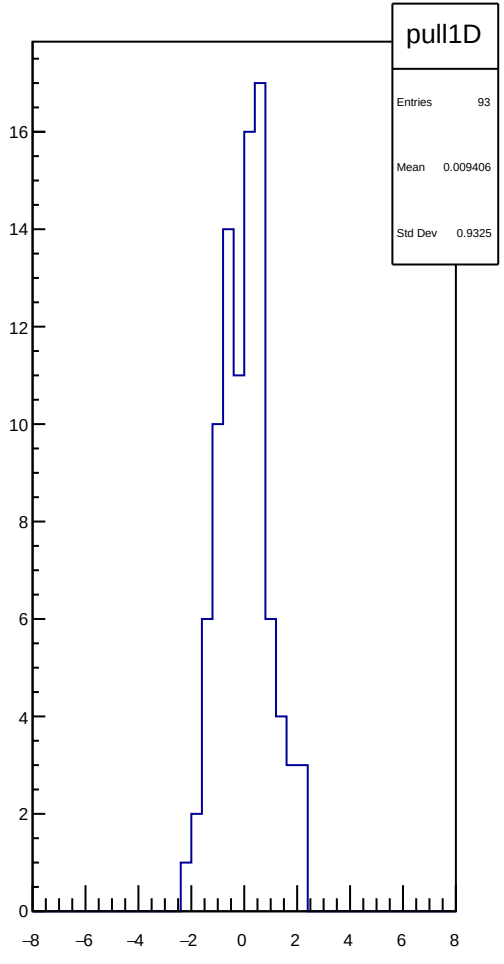

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 106.5 / 92
p0 4.364 ± 19.22
pull
Entries 93
Mean −953.8
Std Dev 1015
pull1D
Entries 93
Mean −0.004256
Std Dev 1.07

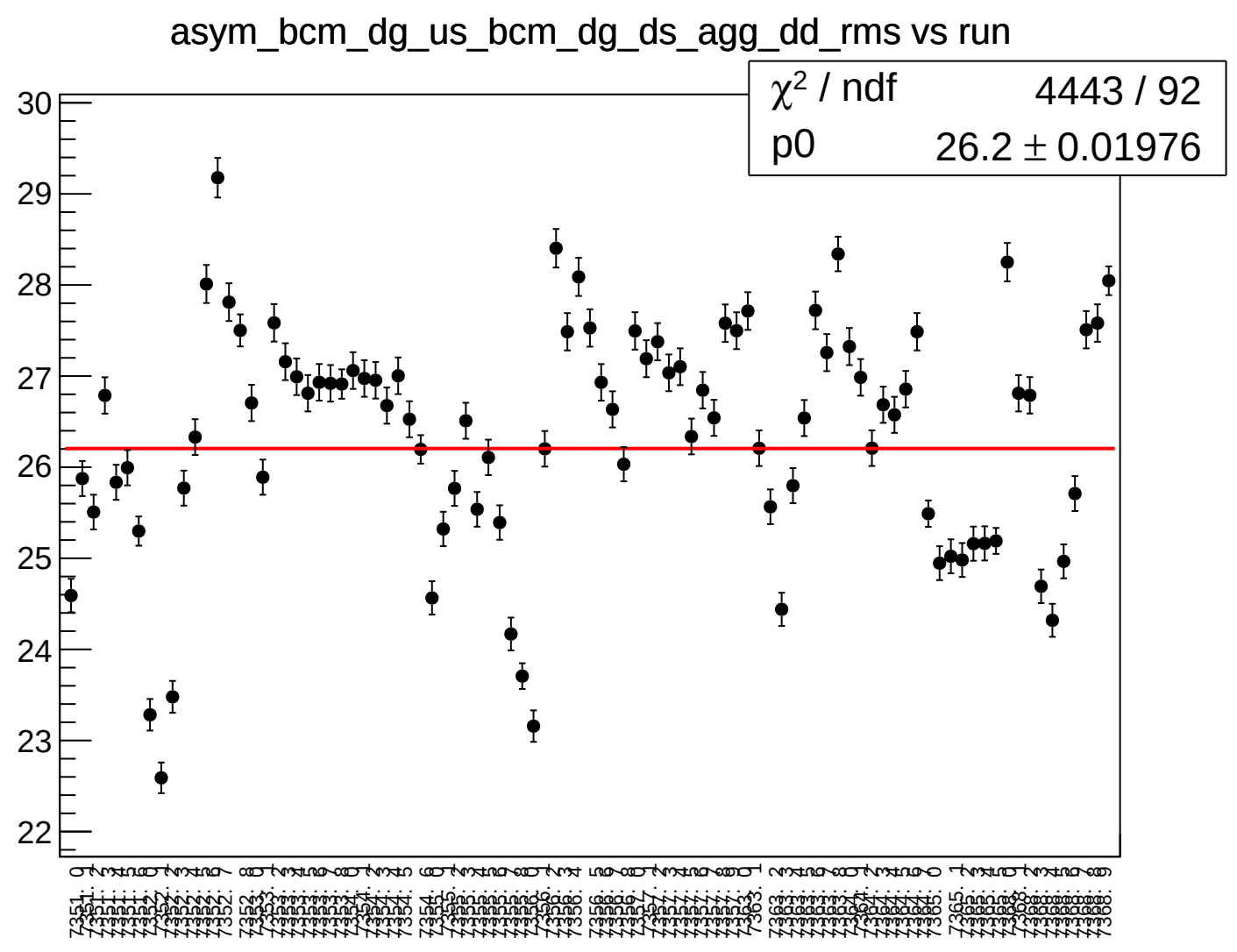

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2027 / 92
p0 18.03 ± 0.01359
19.5
19
18.5
18
17.5
17
16.5

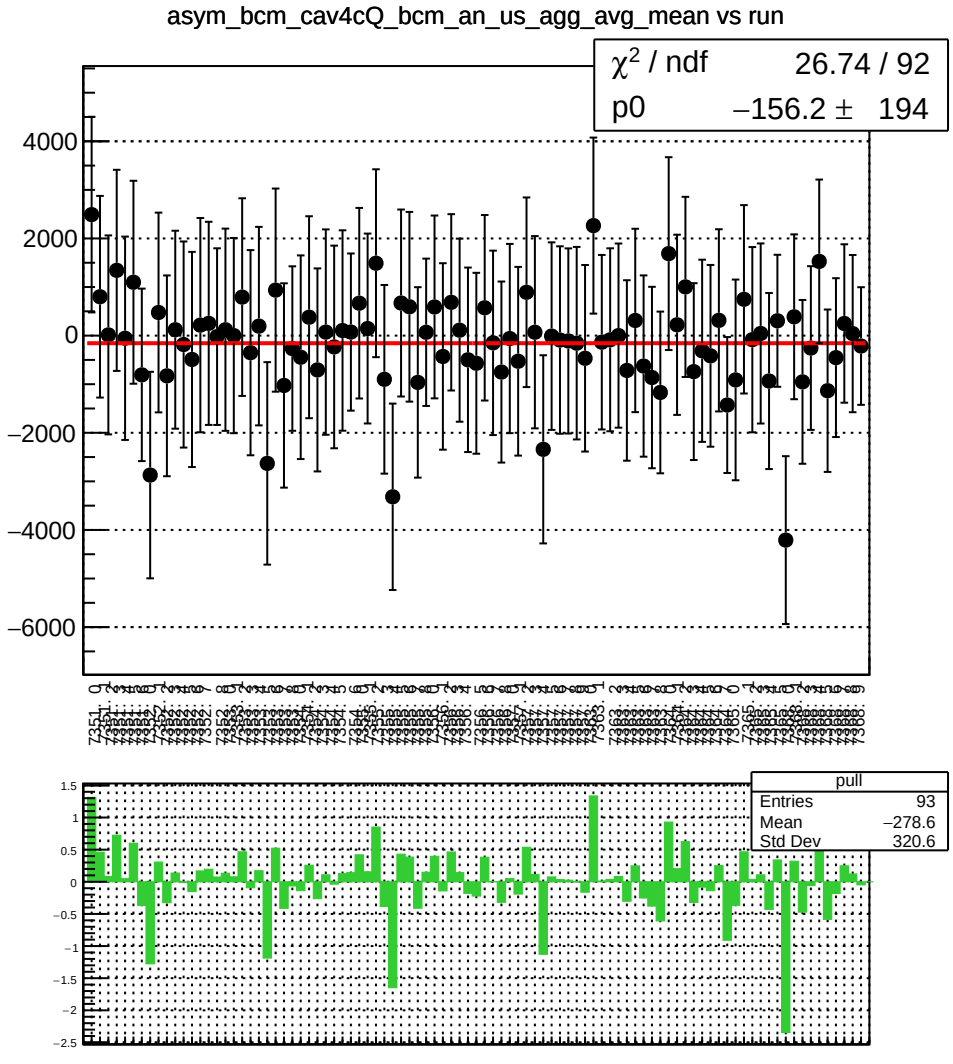

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 25.37 / 92
p0 −82.69 ± 204.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −227.7
Std Dev 251.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.00296
Std Dev 0.5223
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

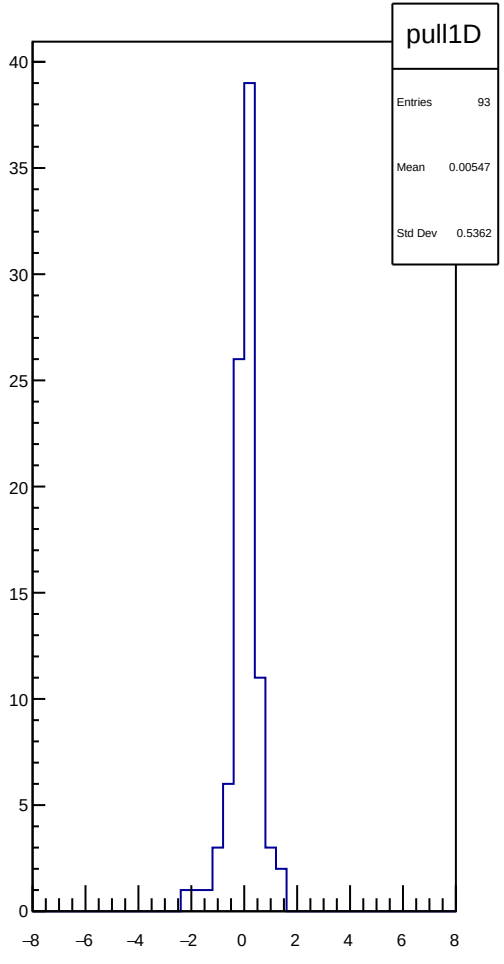

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.149e+04 / 92
p0 191.1 ± 0.1444
220
210
200
190
180
170
160
150

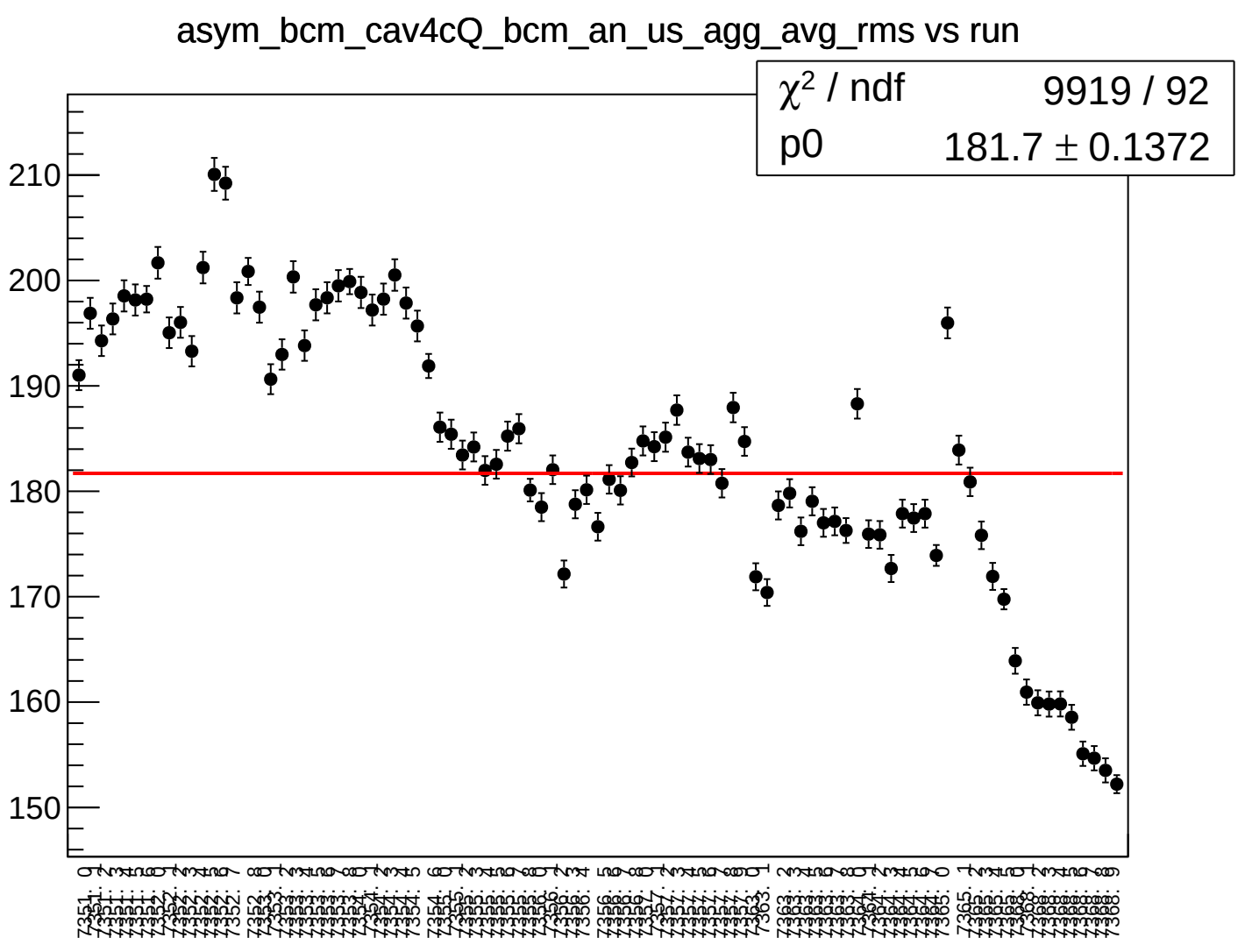

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.88 / 92
p0 −1.501 ± 27.94
1000
500
0
−500
−1000
pull
Entries 93
Mean −117.8
Std Dev 175.7
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

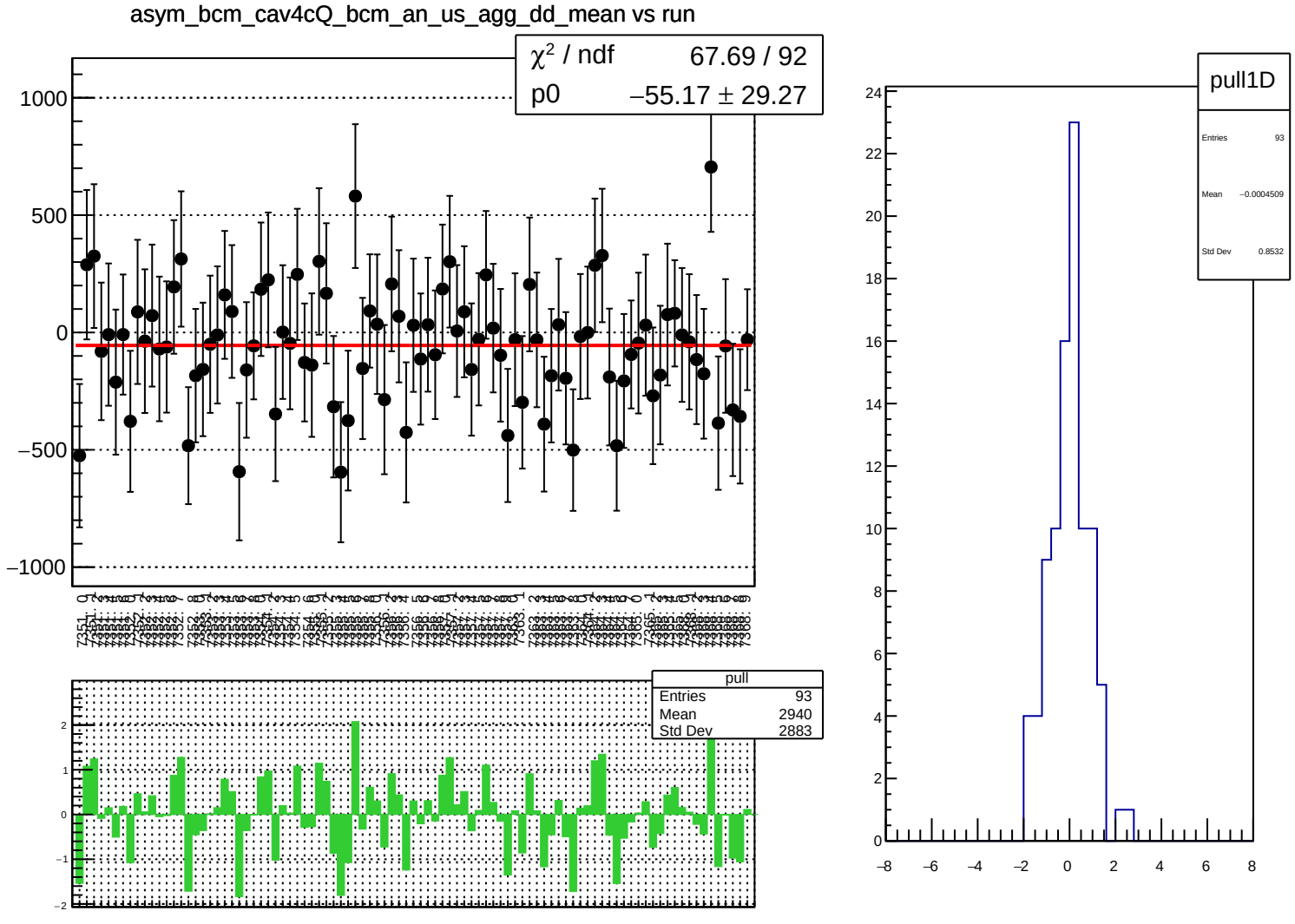

pull1D
Entries 93
Mean 0.009406
Std Dev 0.9325
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

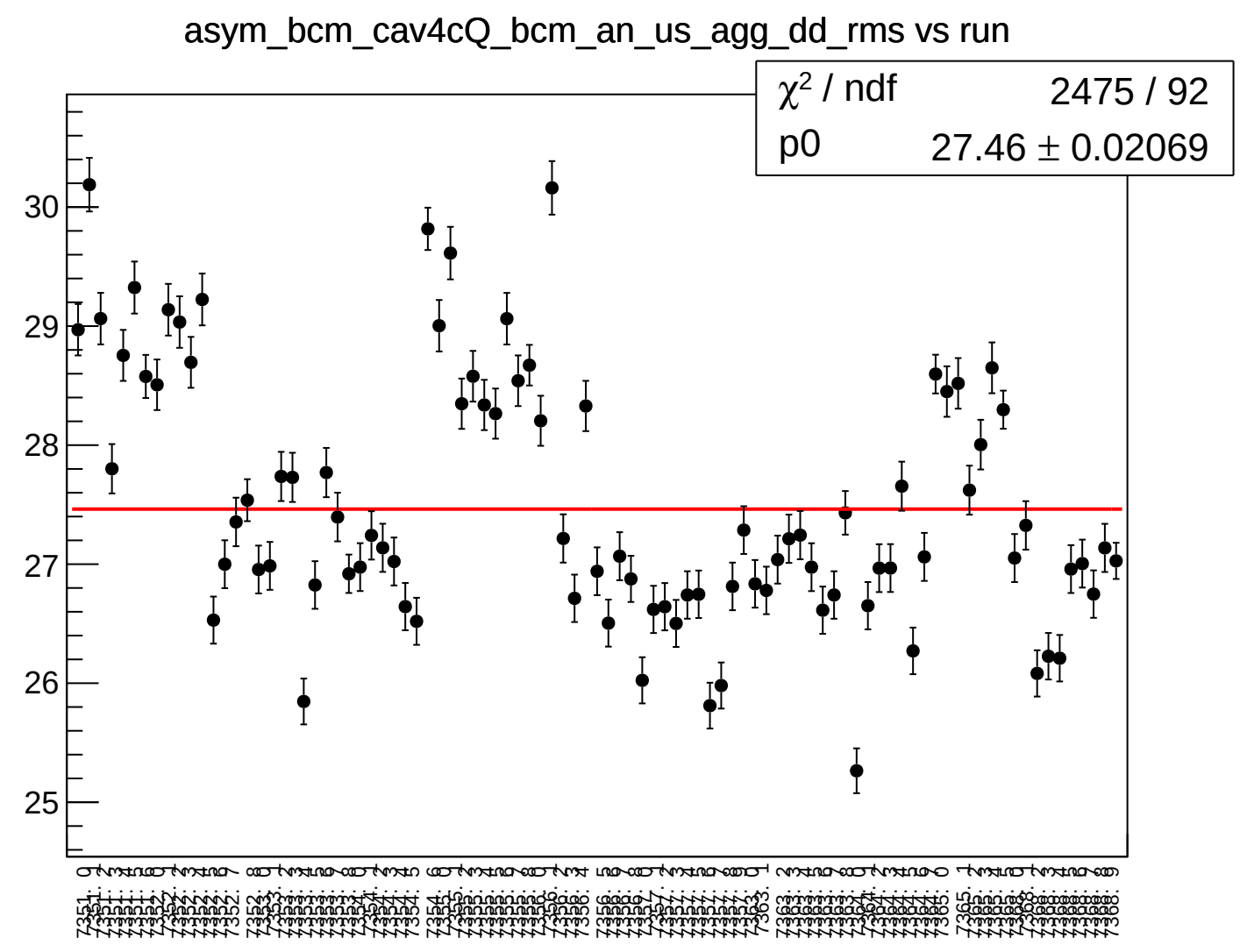

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4443 / 92
p0 26.2 ± 0.01976
30
29
28
27
26
25
24
23
22

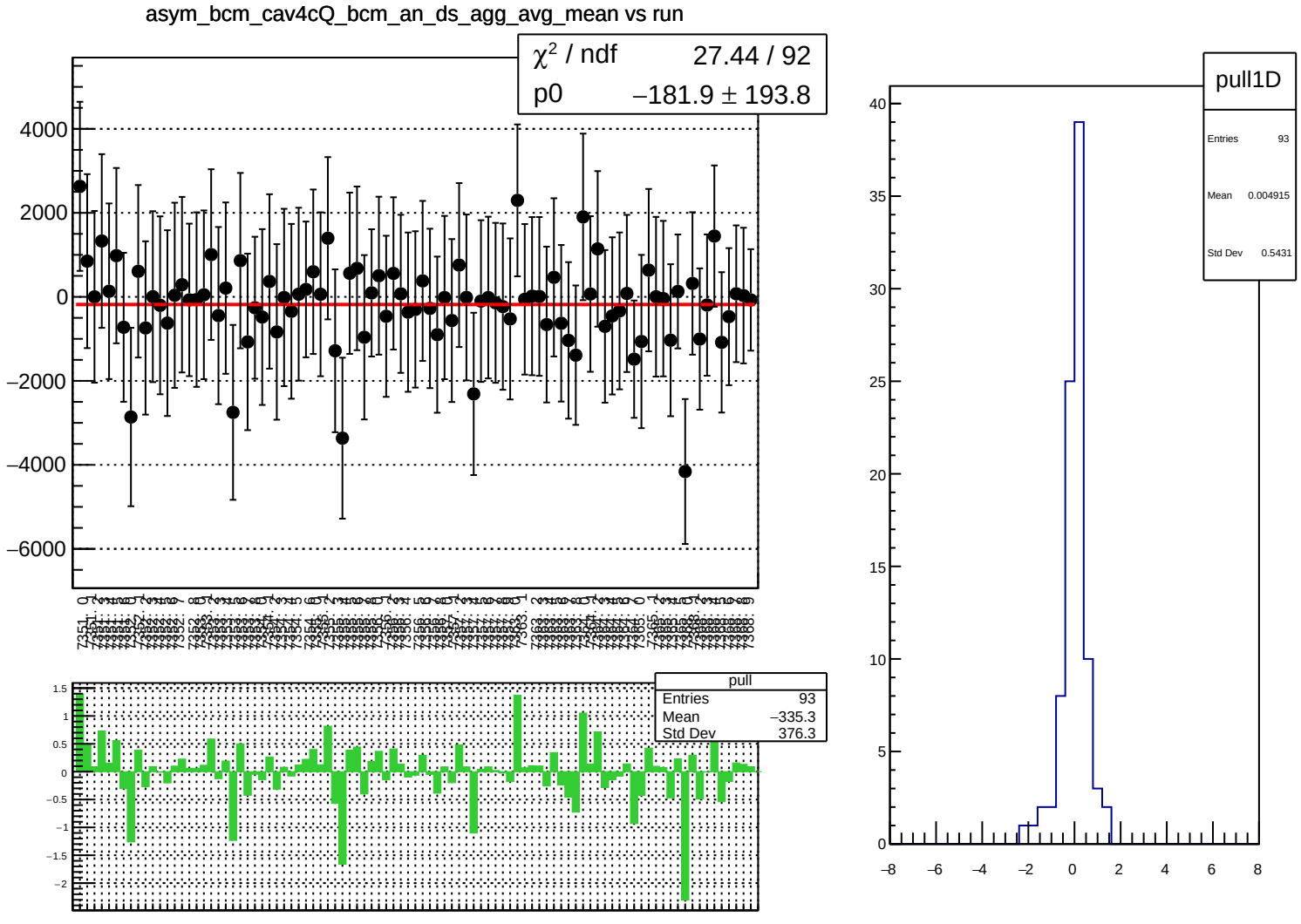

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 26.74 / 92
p0 −156.2 ± 194
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −278.6
Std Dev 320.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

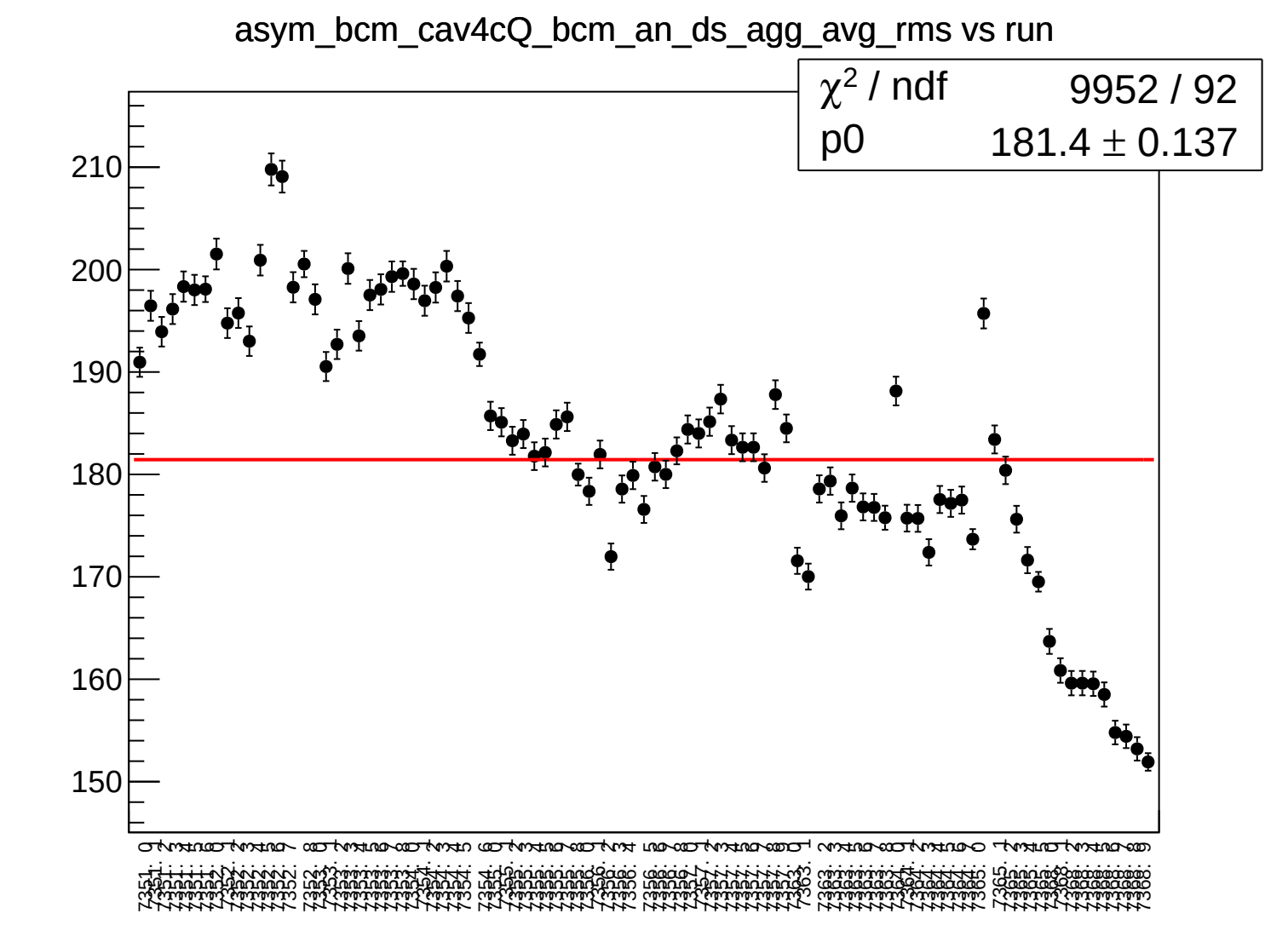

pull1D
Entries 93
Mean 0.00547
Std Dev 0.5362
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

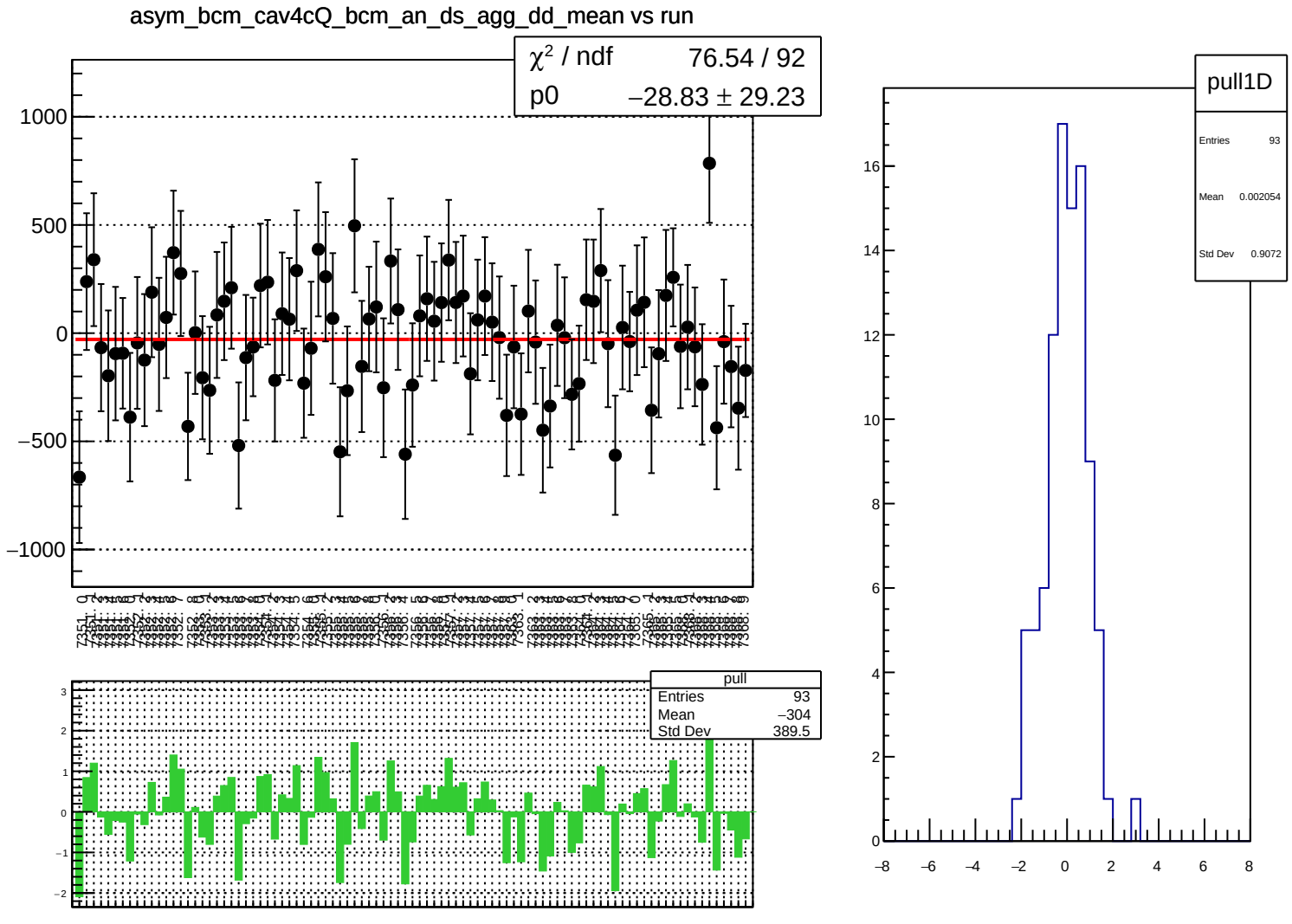

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 9919 / 92
p0 181.7 ± 0.1372
210
200
190
180
170
160
150

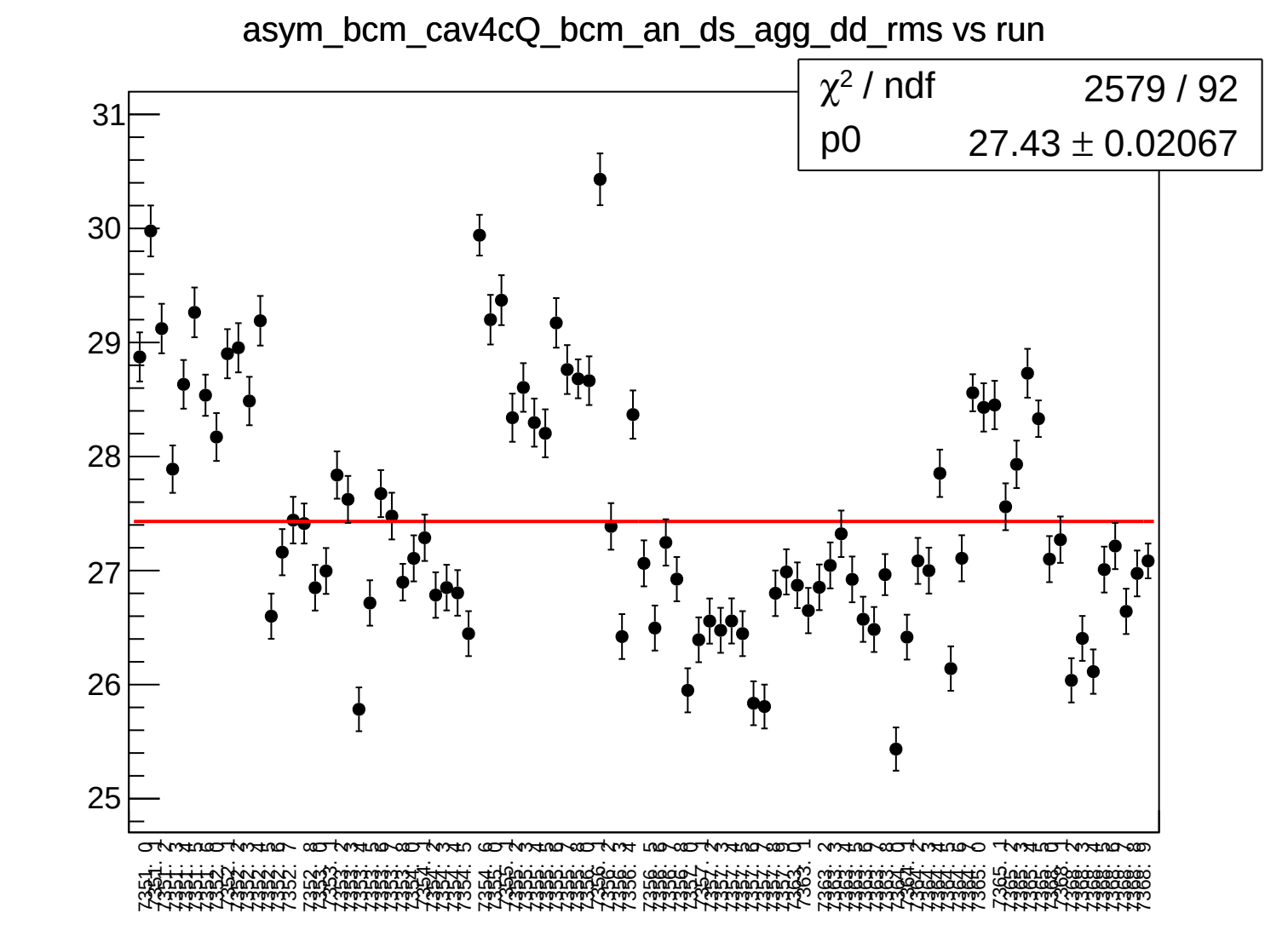

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 67.69 / 92
p0 −55.17 ± 29.27
1000
500
0
−500
−1000
pull
Entries 93
Mean 2940
Std Dev 2883
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.0004509
Std Dev 0.8532
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

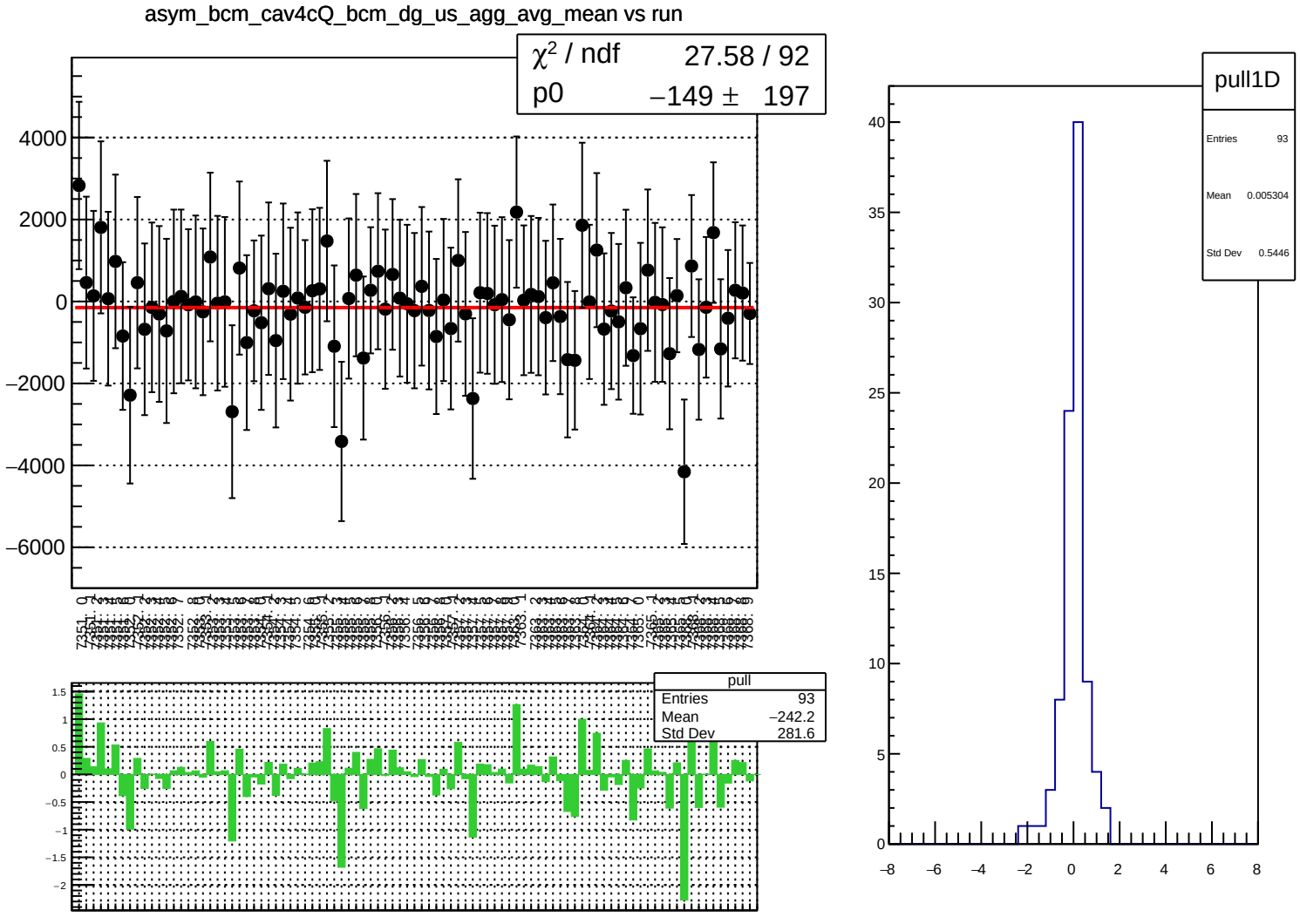

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2475 / 92
p0 27.46 ± 0.02069
30
29
28
27
26
25

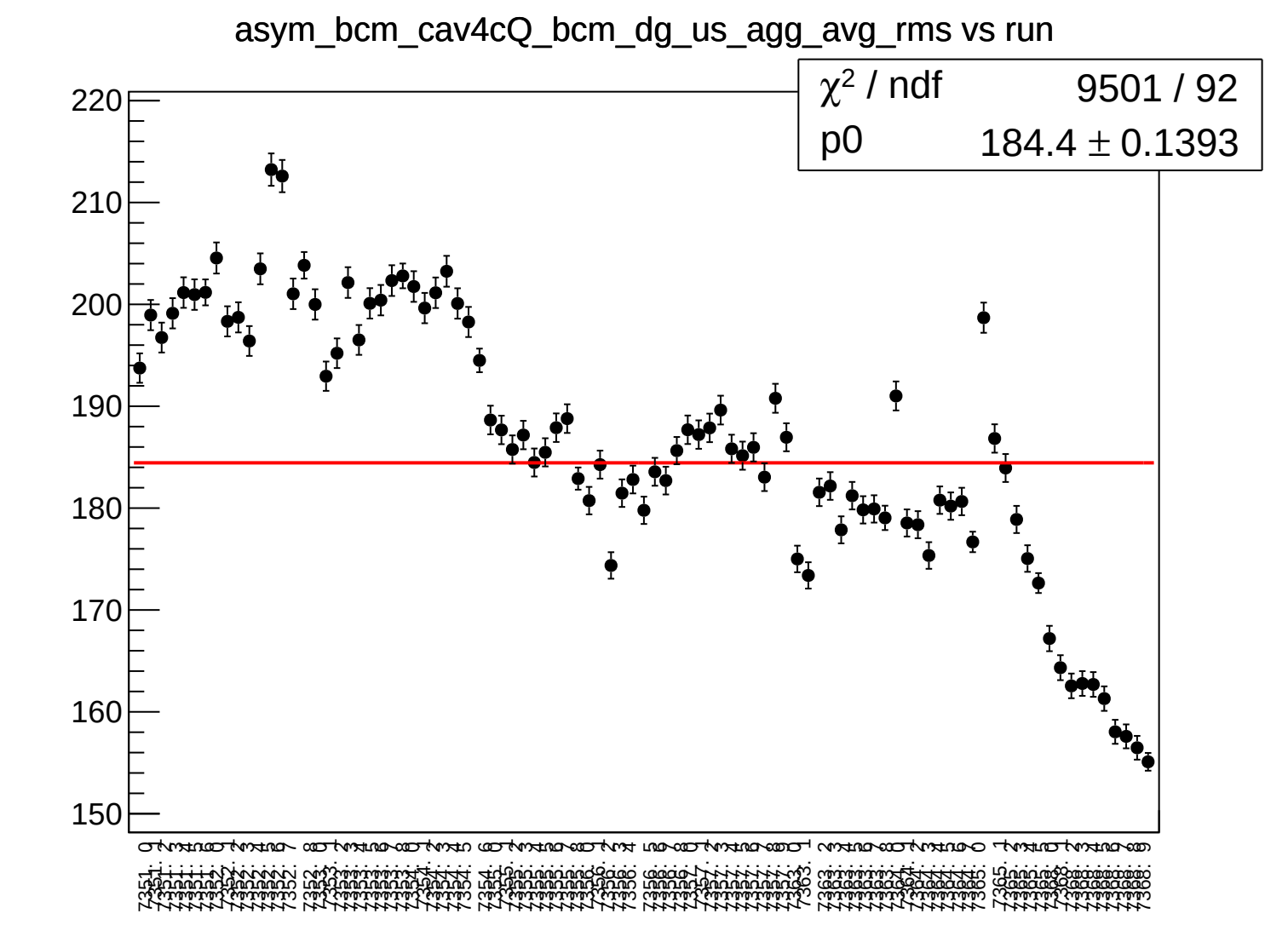

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 27.44 / 92
p0 −181.9 ± 193.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −335.3
Std Dev 376.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.004915
Std Dev 0.5431
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

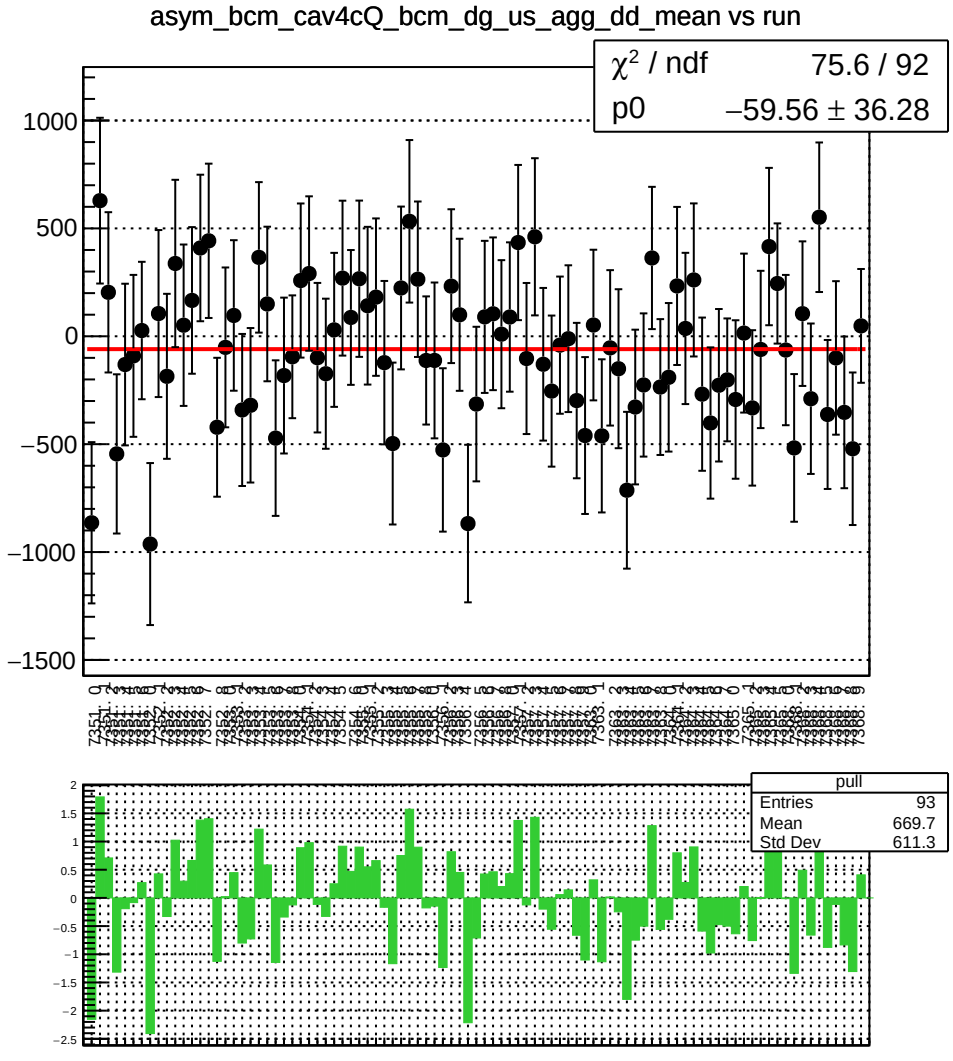

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 9952 / 92
p0 181.4 ± 0.137
210
200
190
180
170
160
150

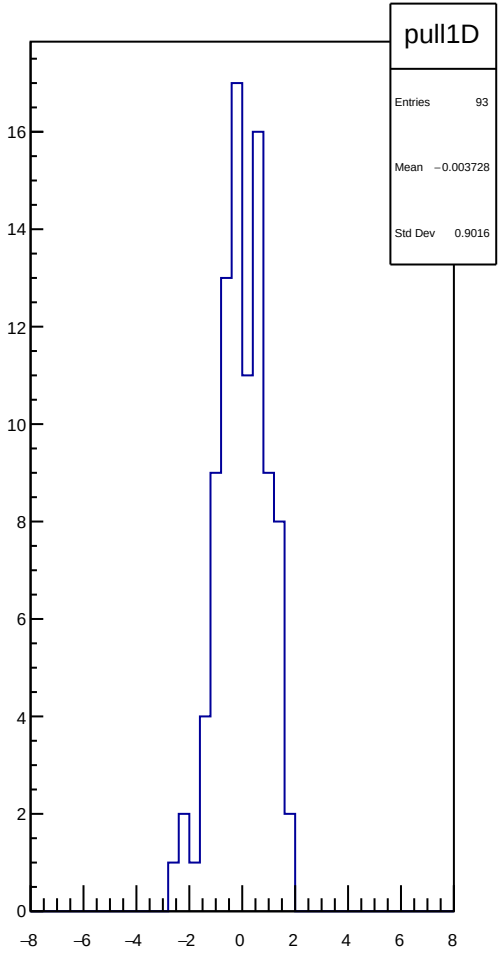

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.54 / 92
p0 −28.83 ± 29.23
1000
500
0
−500
−1000
pull
Entries 93
Mean −304
Std Dev 389.5
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.002054
Std Dev 0.9072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

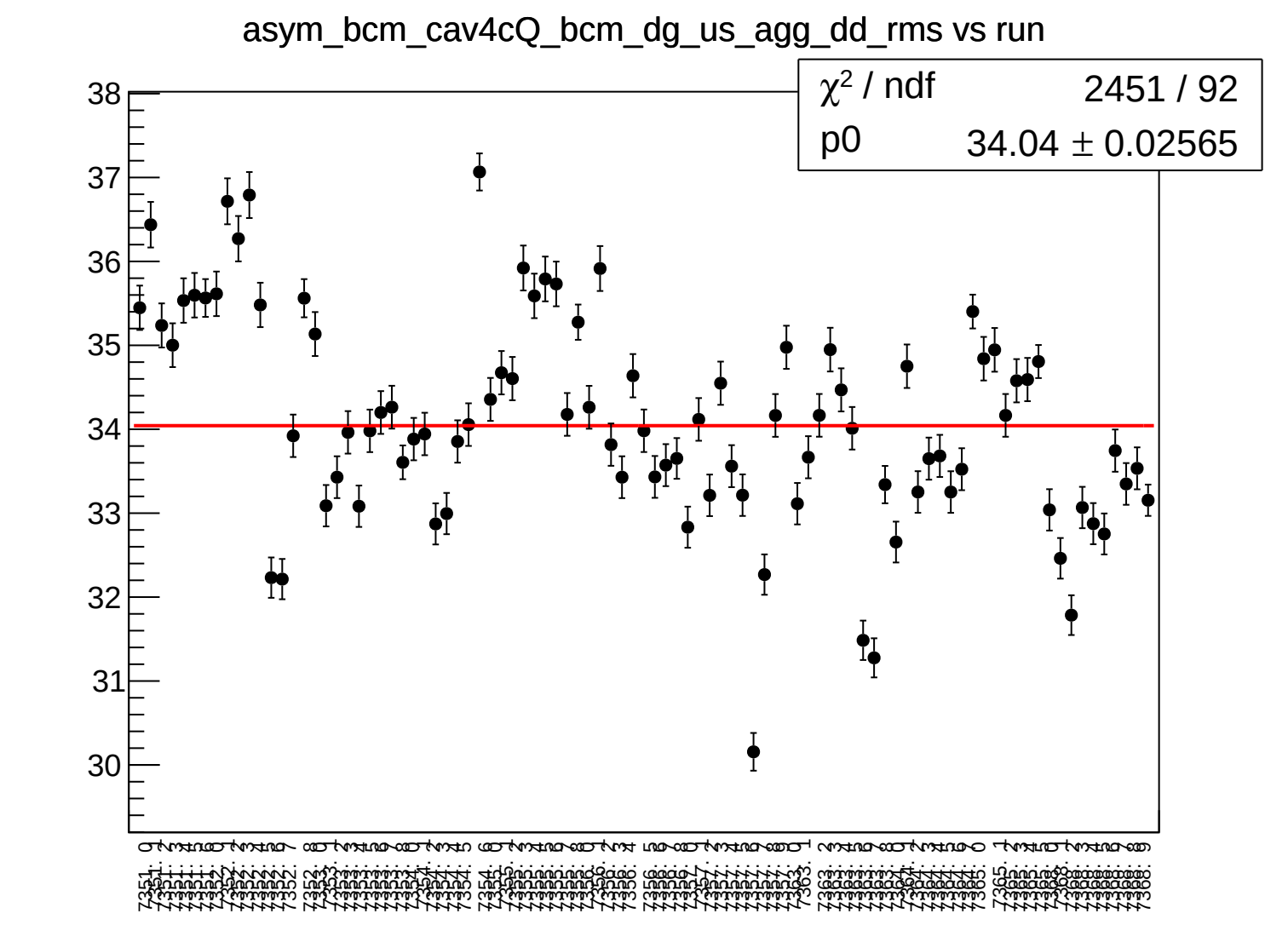

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2579 / 92
p0 27.43 ± 0.02067
31
30
29
28
27
26
25

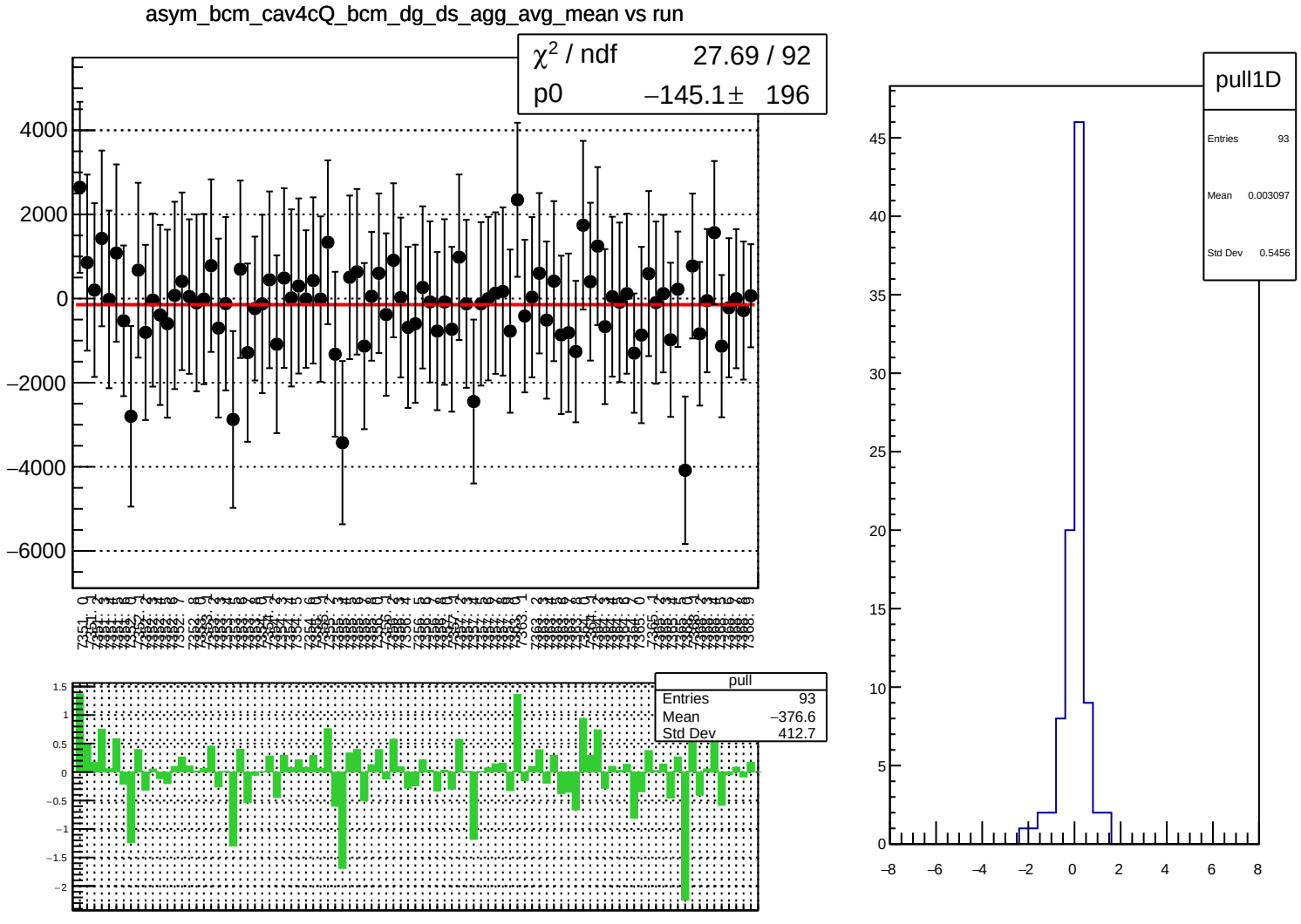

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 27.58 / 92
p0 −149 ± 197
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −242.2
Std Dev 281.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.005304
Std Dev 0.5446
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

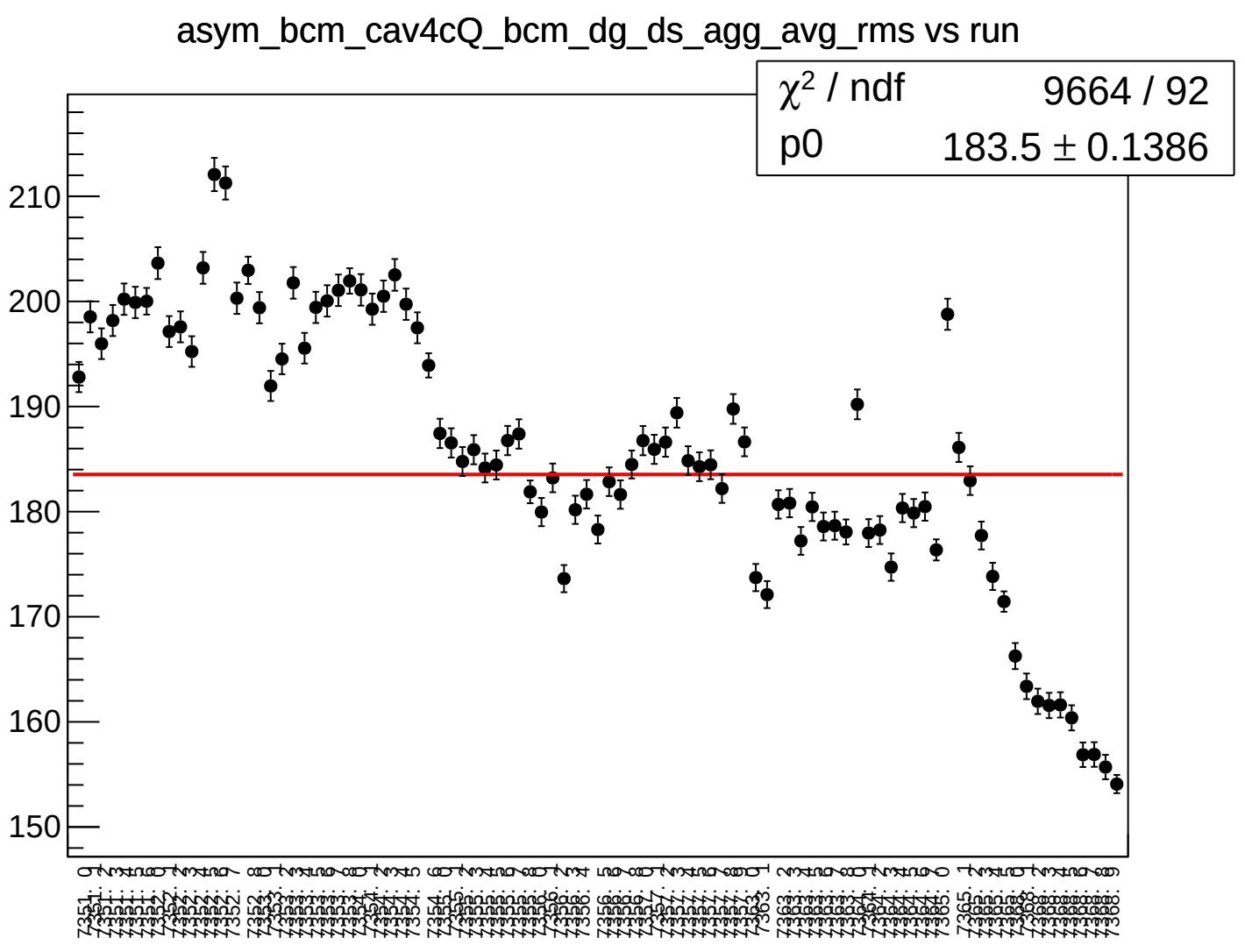

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ^2 / ndf 9501 / 92
p0 184.4 ± 0.1393
220
210
200
190
180
170
160
150

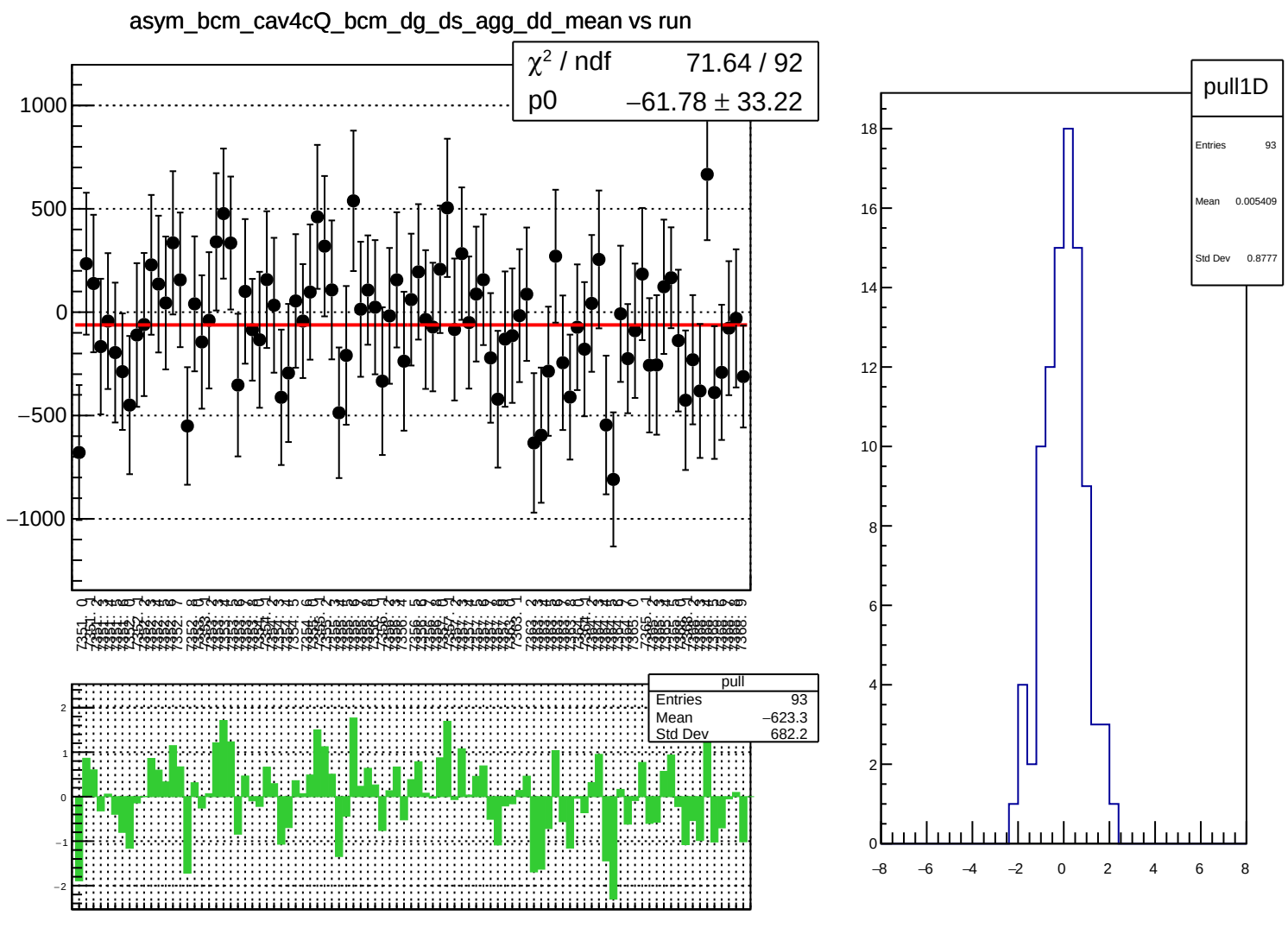

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 75.6 / 92
p0 −59.56 ± 36.28
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean 669.7
Std Dev 611.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

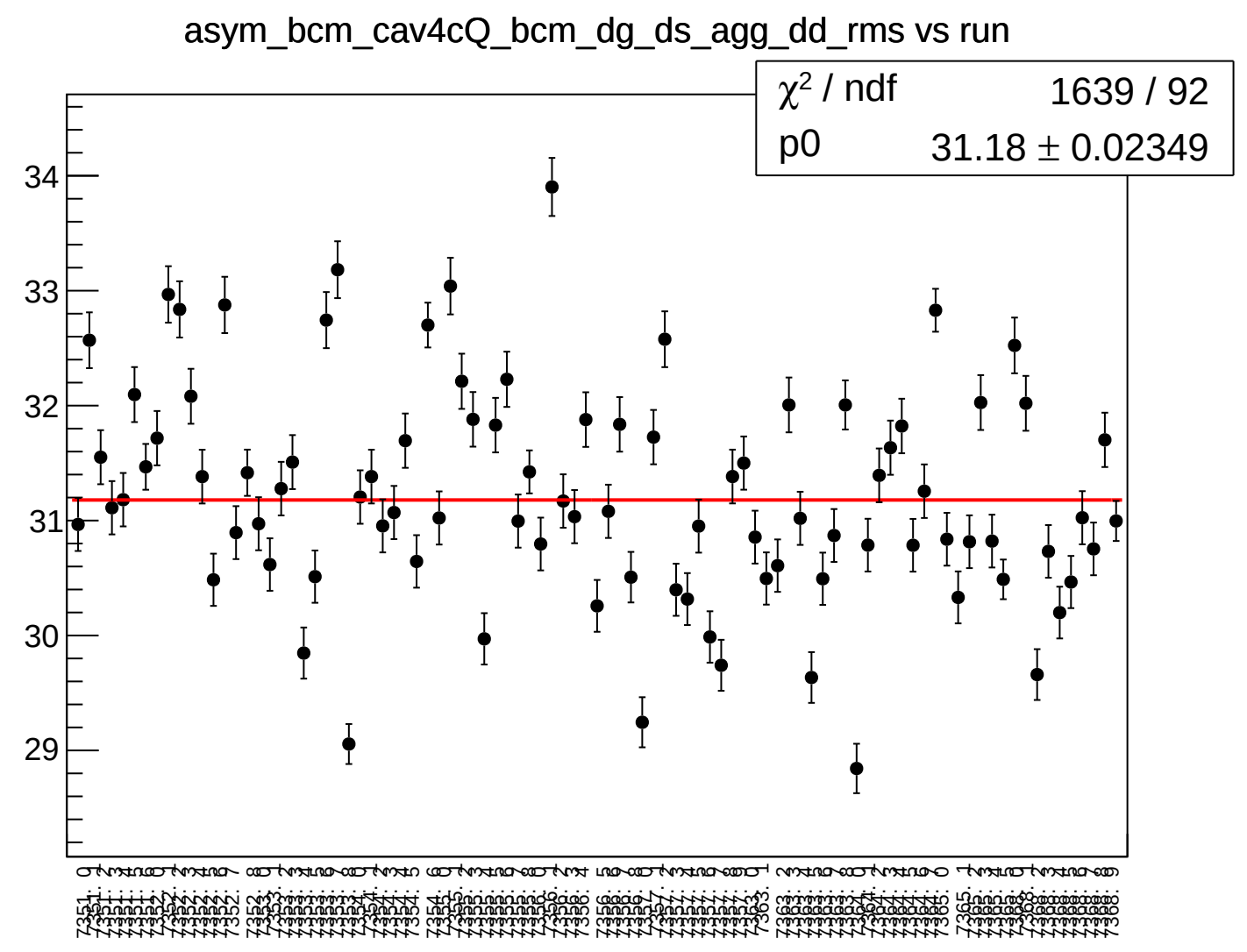

pull1D
Entries 93
Mean −0.003728
Std Dev 0.9016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

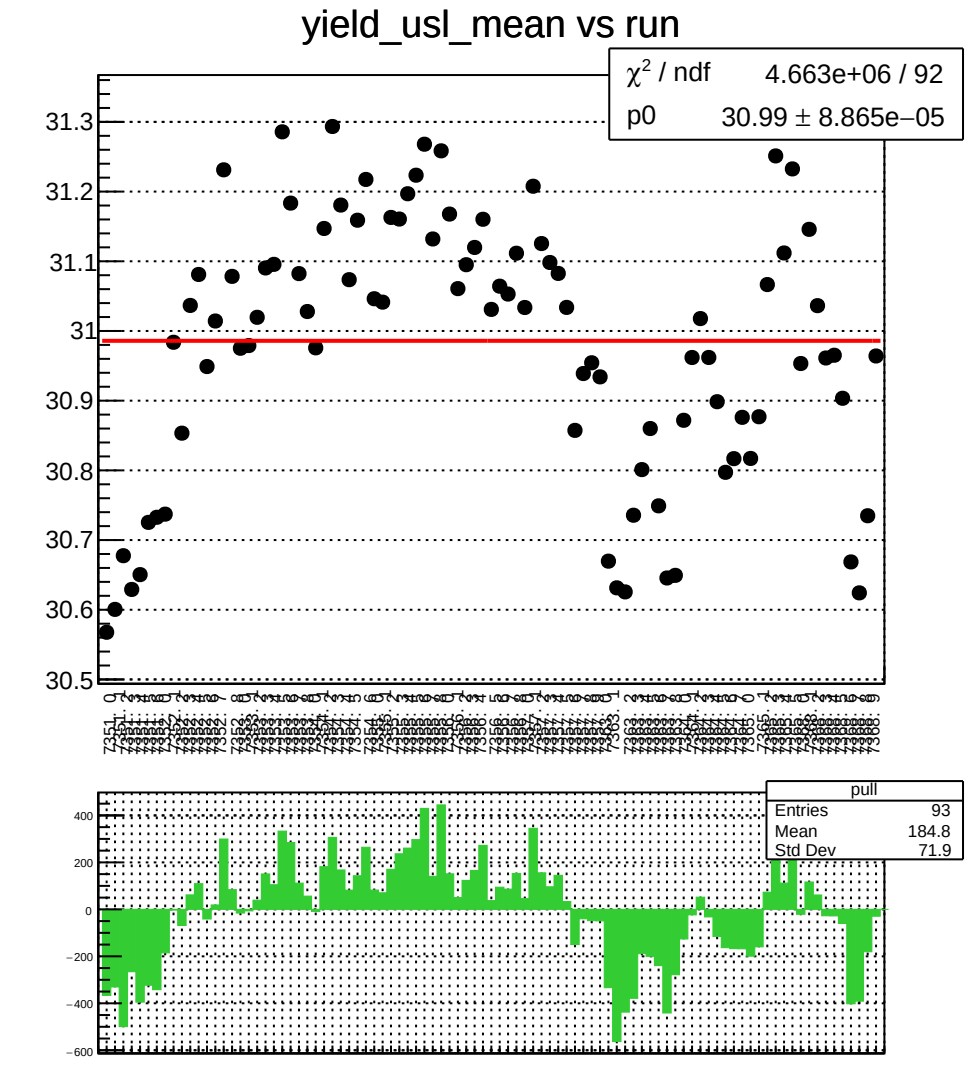

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2451 / 92
p0 34.04 ± 0.02565
38
37
36
35
34
33
32
31
30

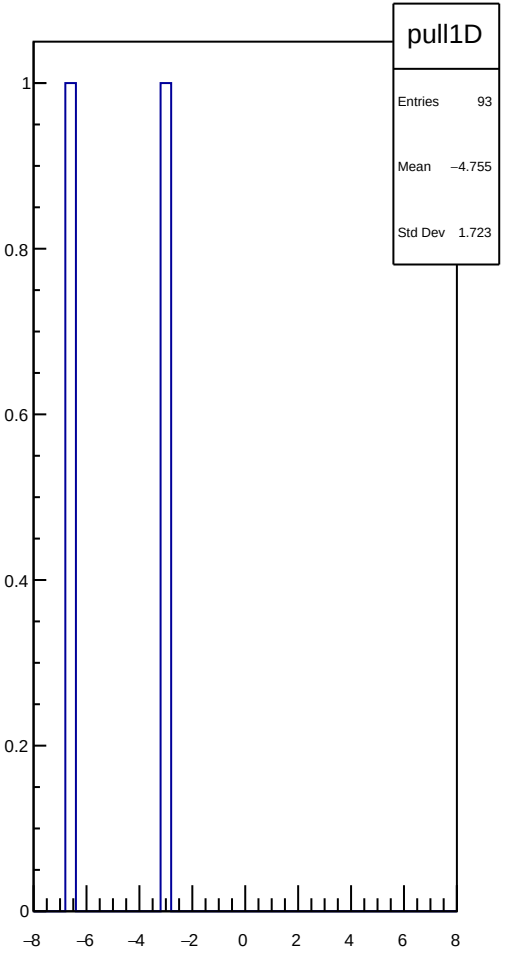

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 27.69 / 92
p0 −145.1± 196
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −376.6
Std Dev 412.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.003097
Std Dev 0.5456
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

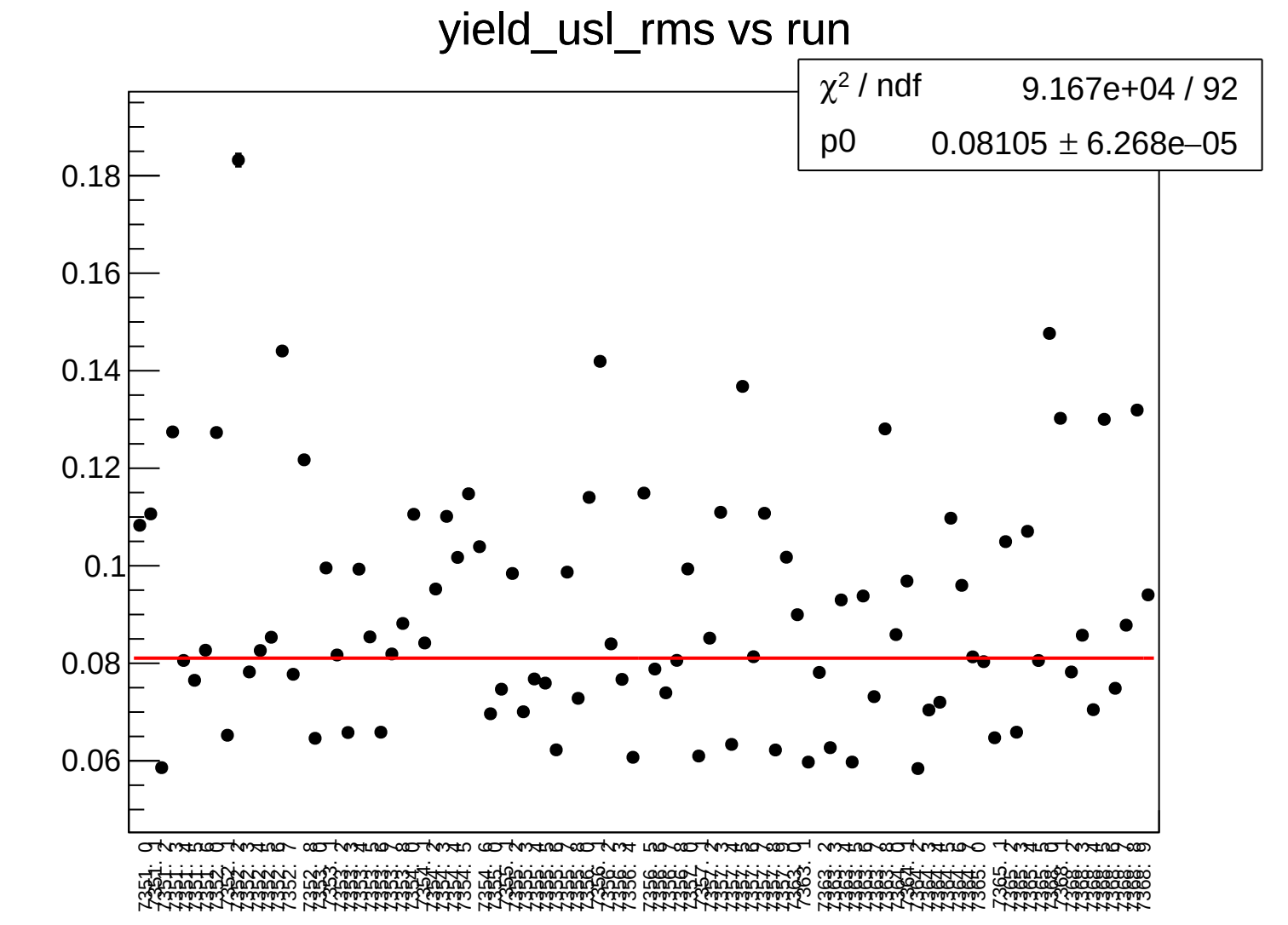

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9664 / 92
p0 183.5 ± 0.1386
210
200
190
180
170
160
150

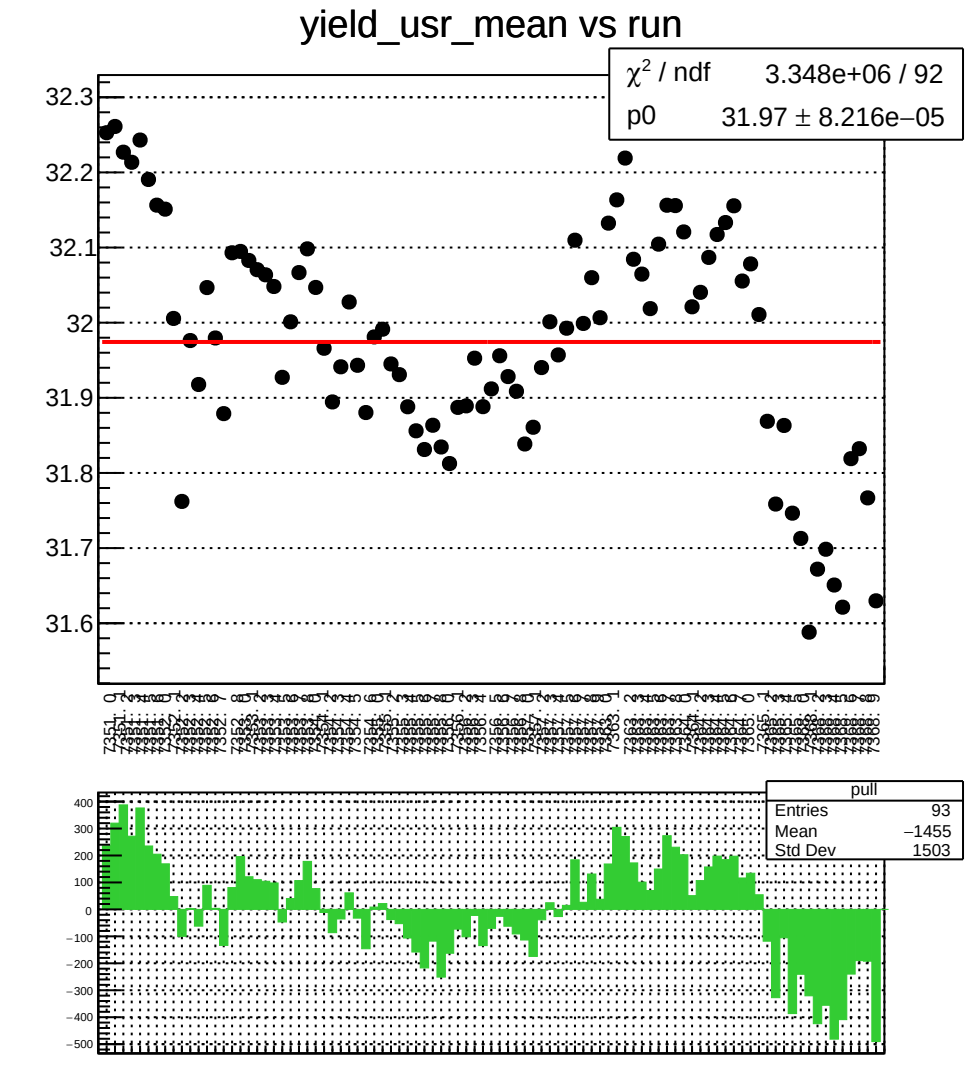

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.64 / 92
p0 −61.78 ± 33.22
1000
500
0
−500
−1000
pull
Entries 93
Mean −623.3
Std Dev 682.2
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.005409
Std Dev 0.8777
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

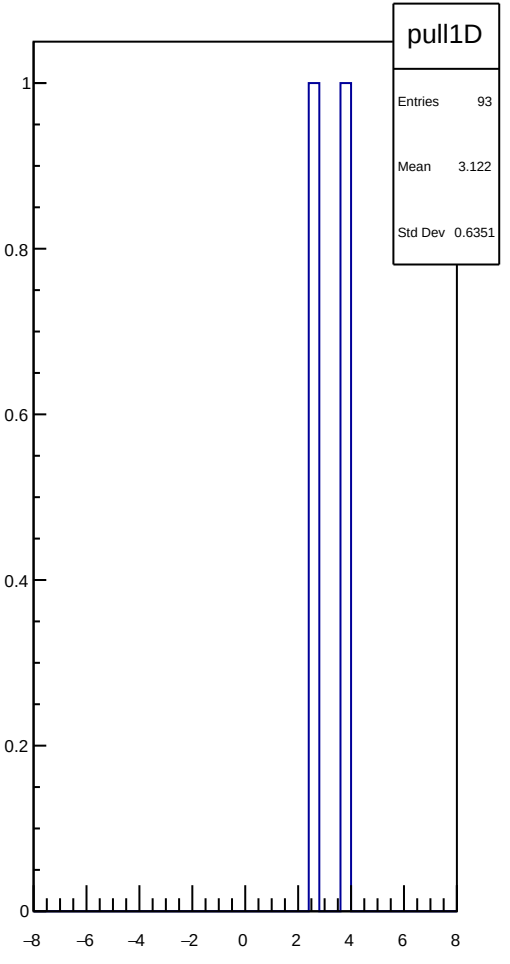

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1639 / 92
p0 31.18 ± 0.02349
34
33
32
31
30
29

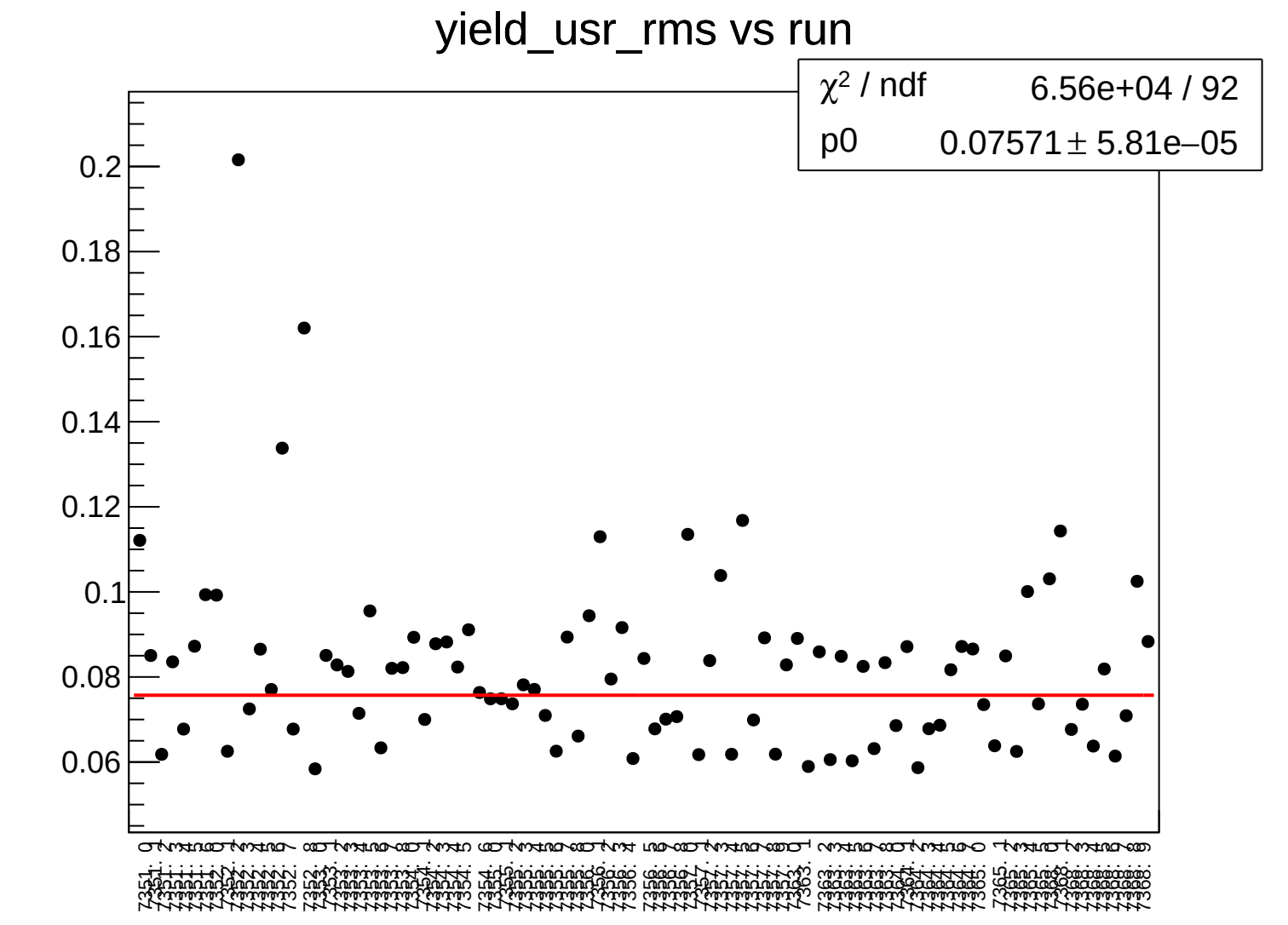

yield_usl_mean vs run
χ² / ndf 4.663e+06 / 92
p0 30.99 ± 8.865e−05
31.3
31.2
31.1
31
30.9
30.8
30.7
30.6
30.5
pull
Entries 93
Mean 184.8
Std Dev 71.9
400
200
0
−200
−400
−600

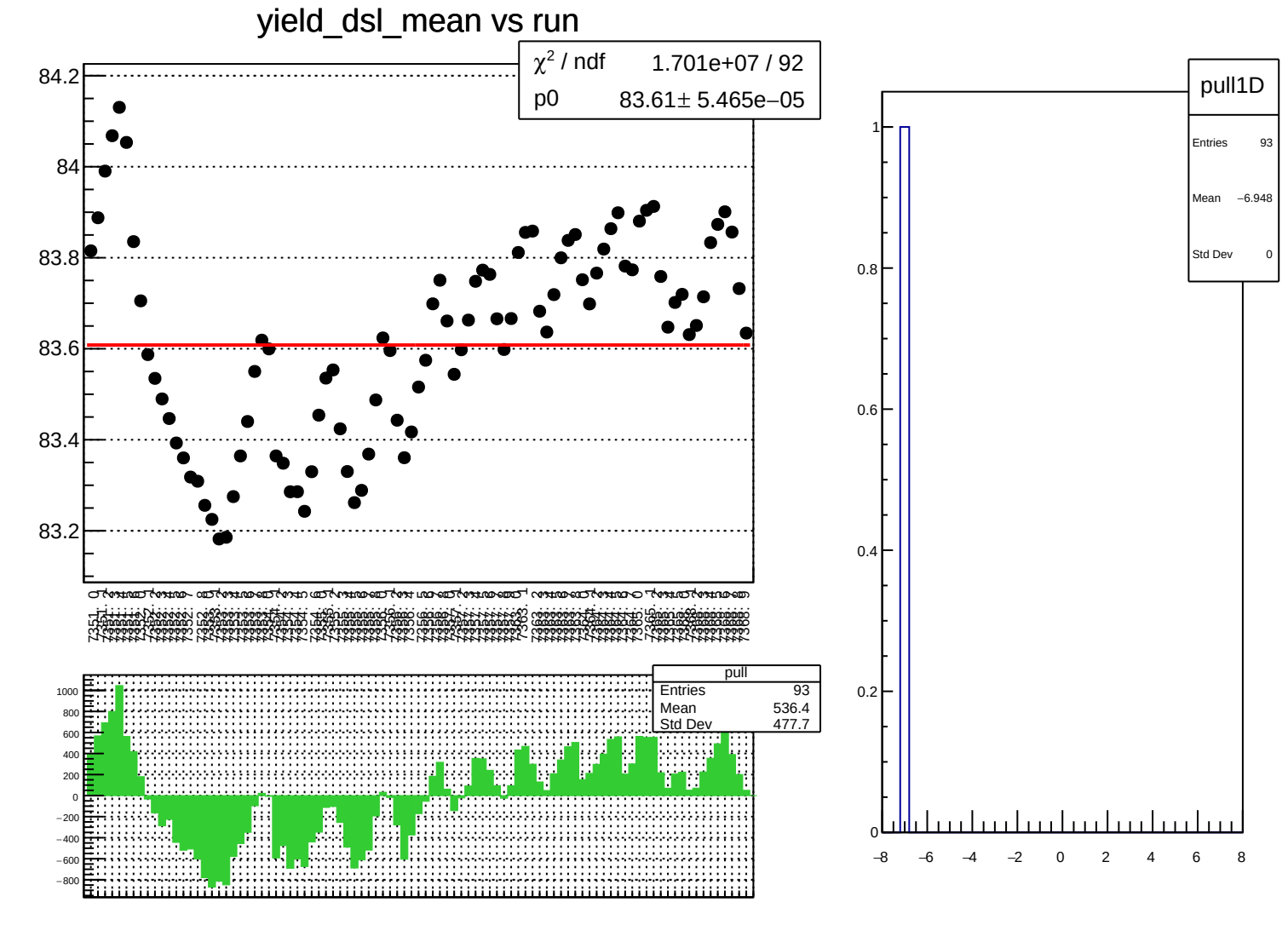

pull1D
Entries 93
Mean −4.755
Std Dev 1.723
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

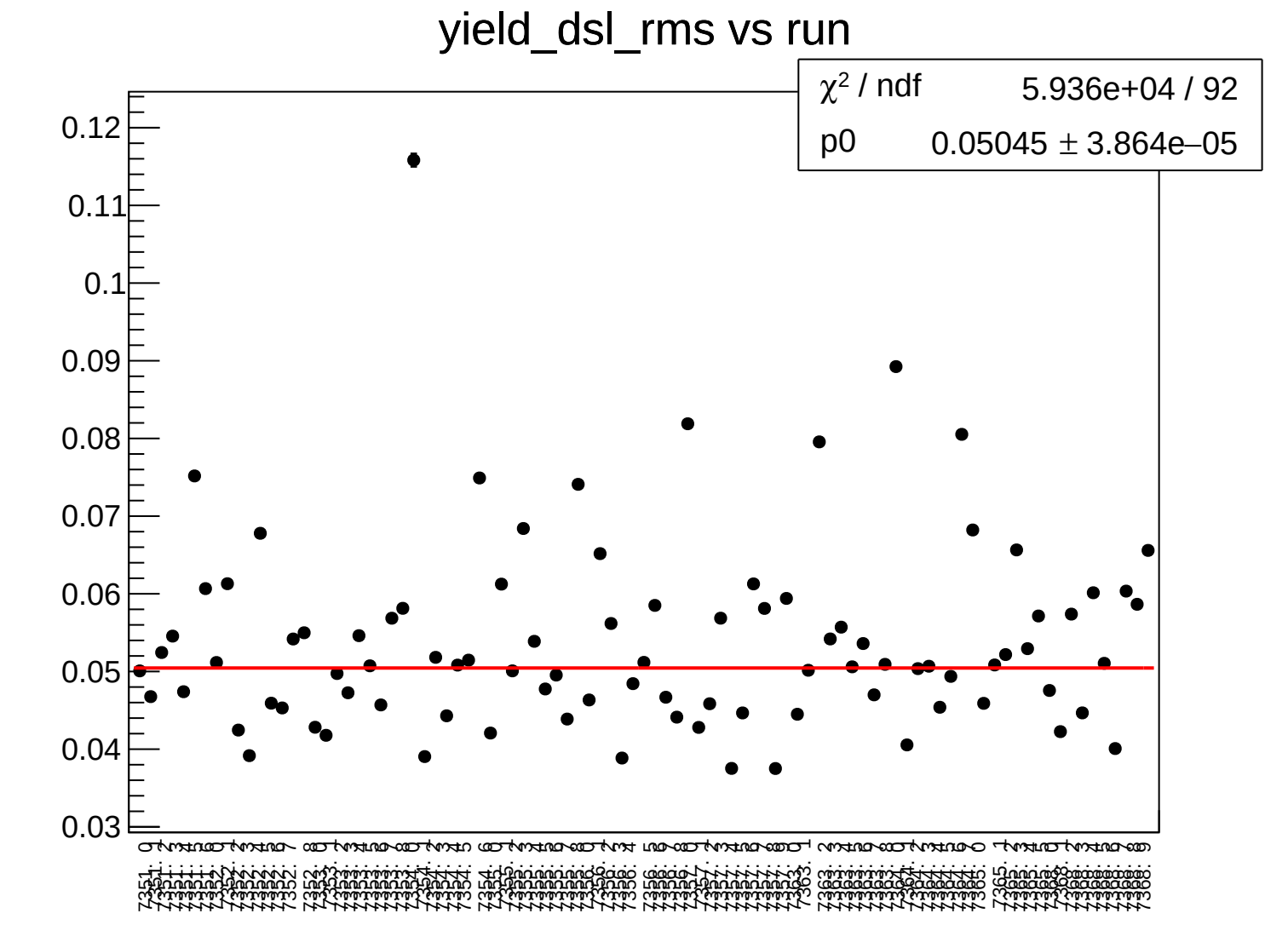

yield_usl_rms vs run
χ² / ndf 9.167e+04 / 92
p0 0.08105 ± 6.268e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

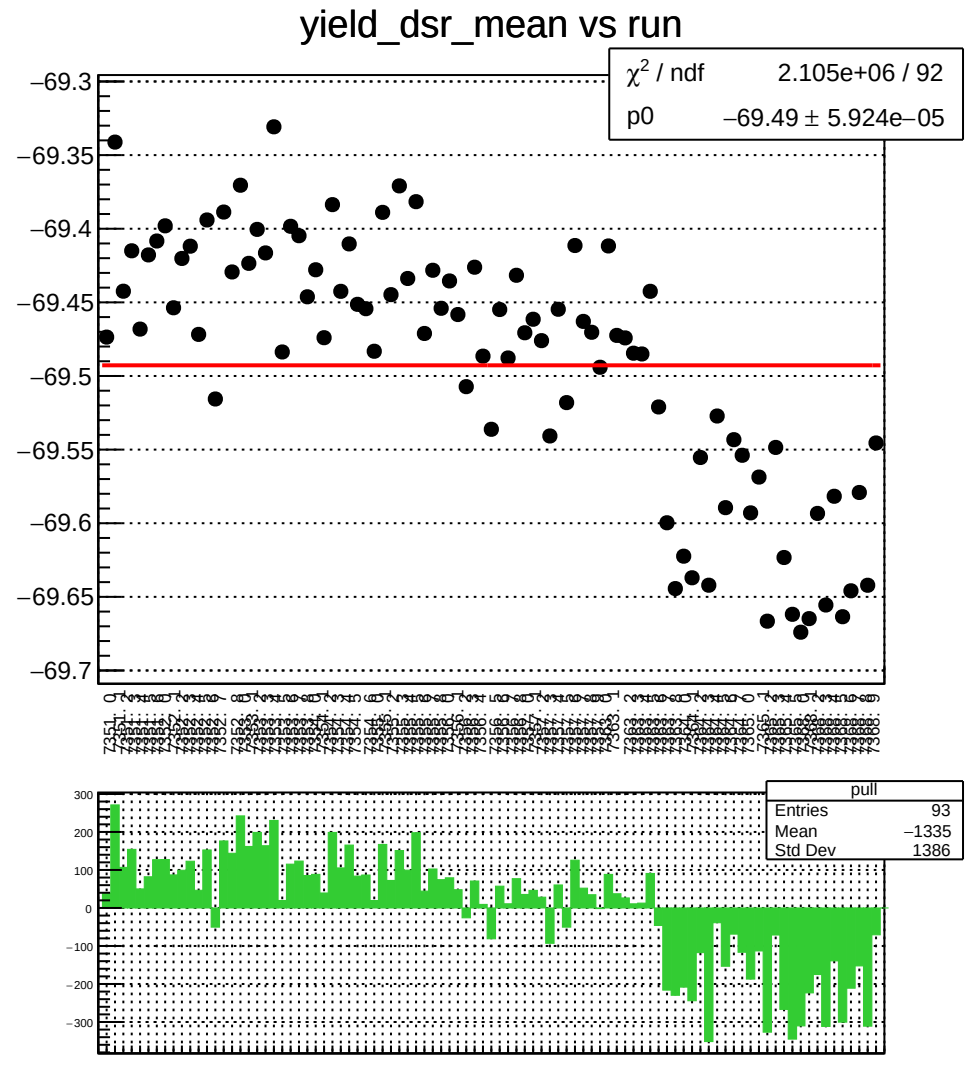

yield_usr_mean vs run
χ² / ndf 3.348e+06 / 92
p0 31.97 ± 8.216e−05
32.3
32.2
32.1
32
31.9
31.8
31.7
31.6
pull
Entries 93
Mean −1455
Std Dev 1503
400
300
200
100
0
−100
−200
−300
−400
−500

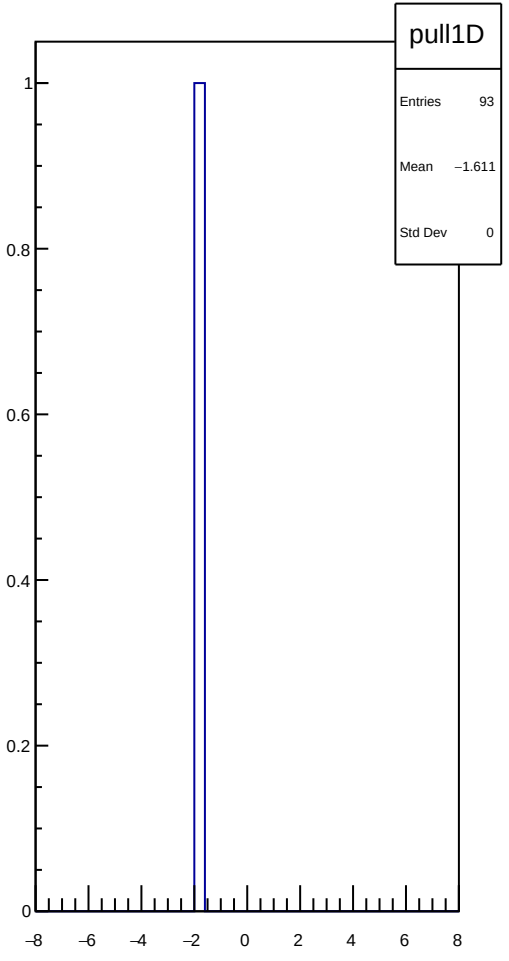

pull1D
Entries 93
Mean 3.122
Std Dev 0.6351
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

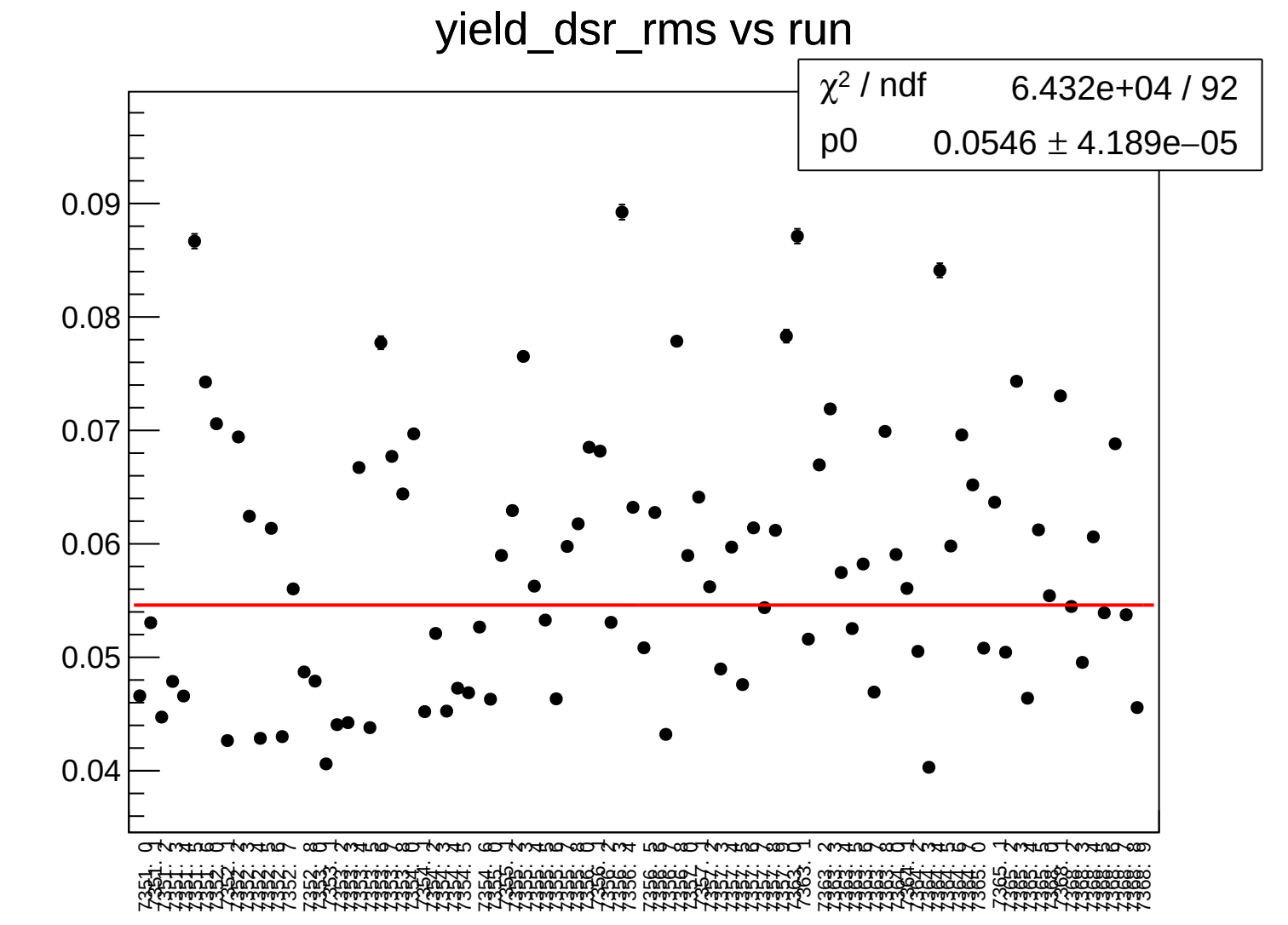

yield_usr_rms vs run
χ² / ndf 6.56e+04 / 92
p0 0.07571 ± 5.81e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

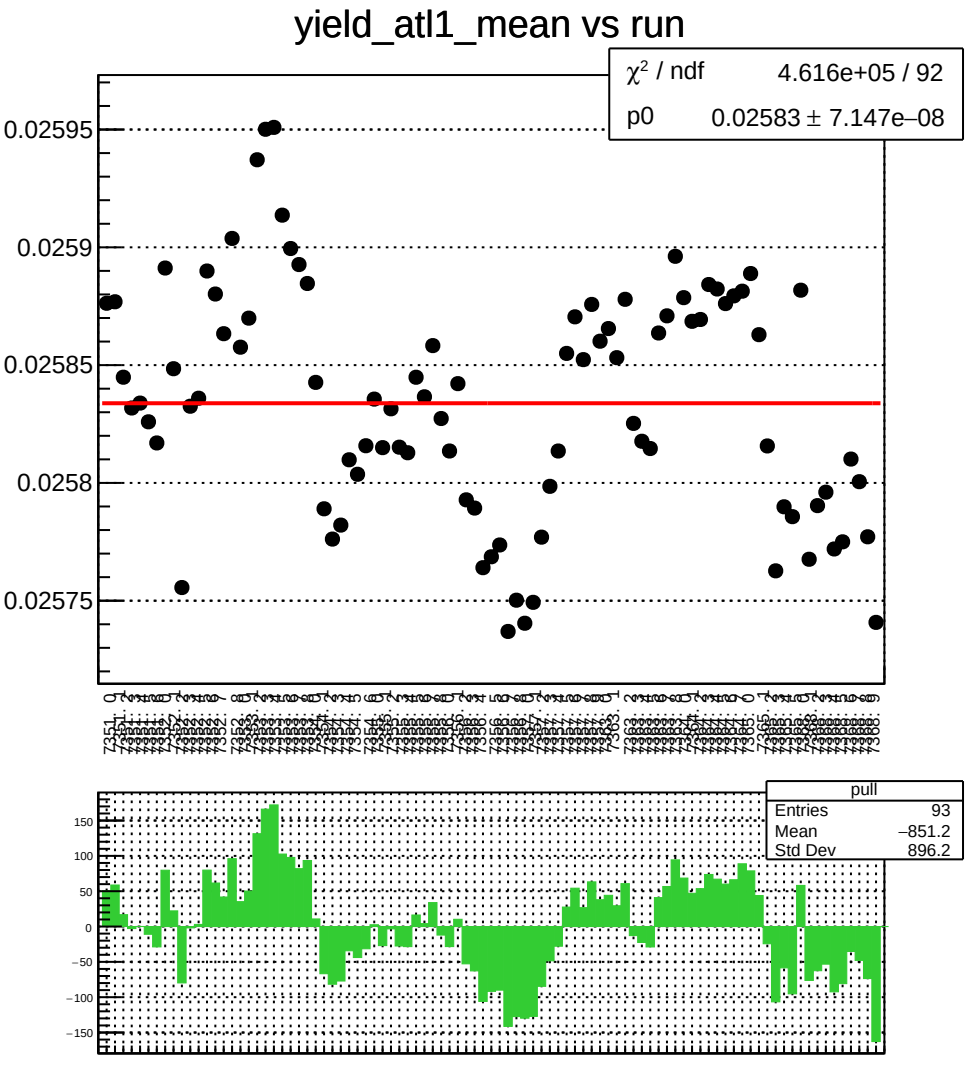

yield_dsl_mean vs run
χ² / ndf 1.701e+07 / 92
p0 83.61± 5.465e−05
84.2
84
83.8
83.6
83.4
83.2
pull
Entries 93
Mean 536.4
Std Dev 477.7
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 93
Mean −6.948
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

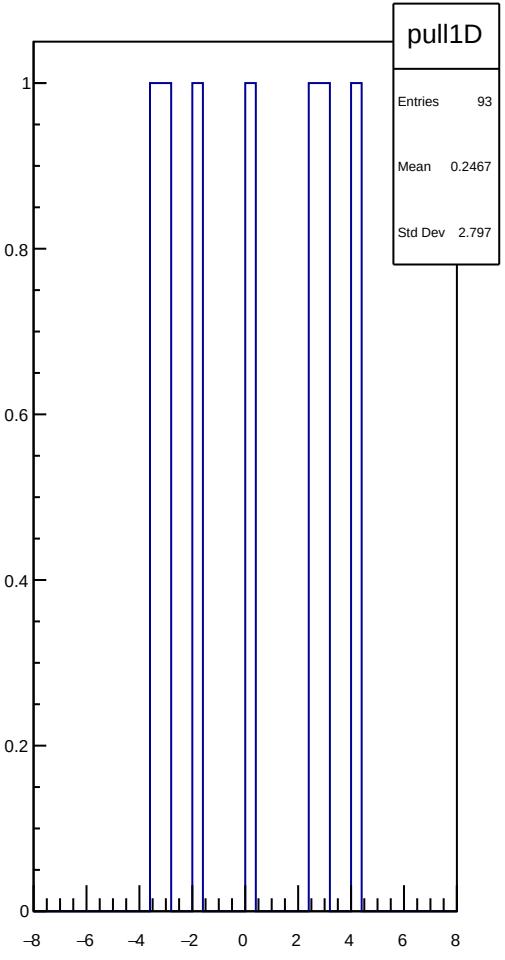

yield_dsl_rms vs run
χ² / ndf 5.936e+04 / 92
p0 0.05045 ± 3.864e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

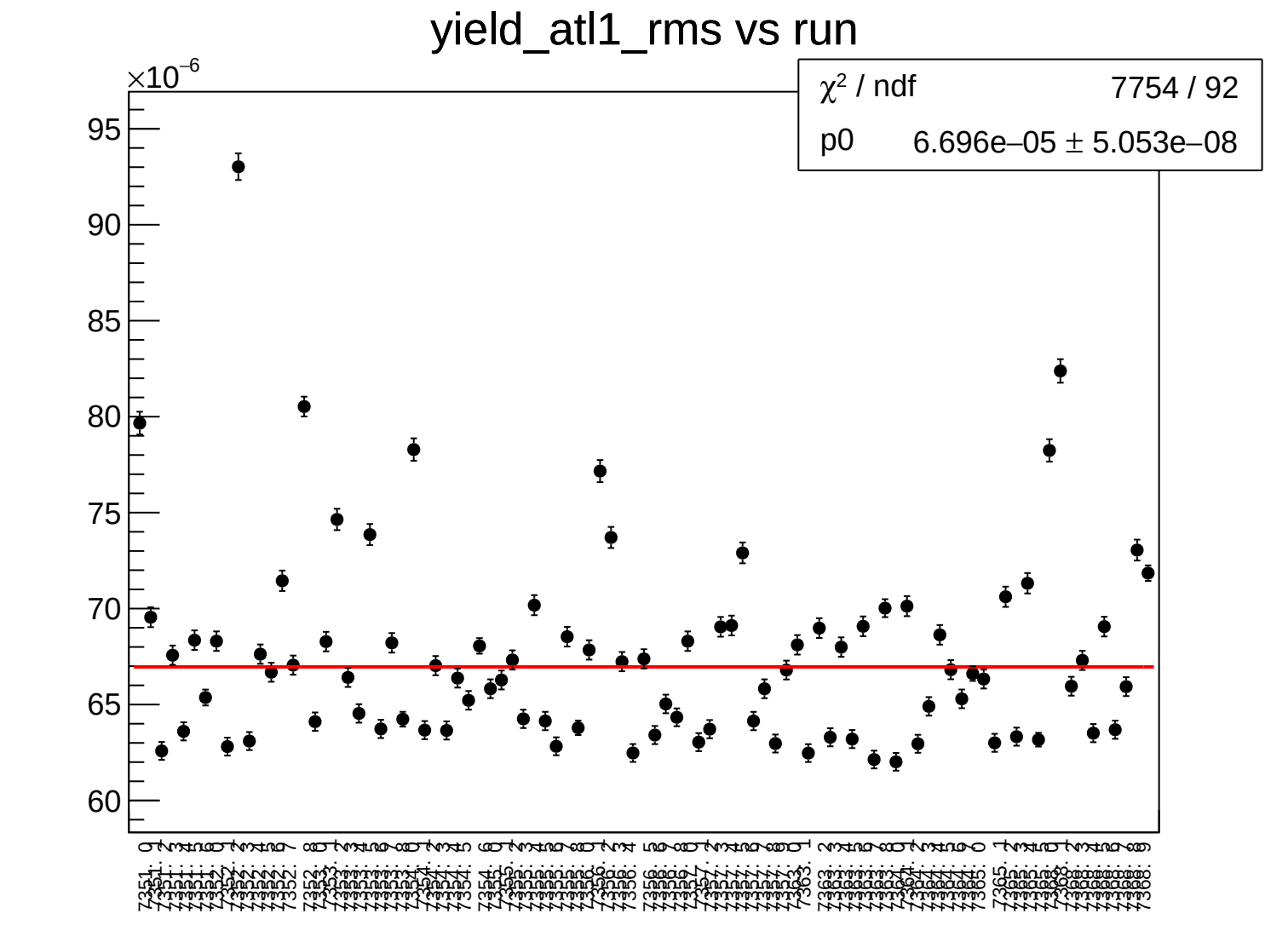

yield_dsr_mean vs run
χ² / ndf 2.105e+06 / 92
p0 −69.49 ± 5.924e−05
−69.3
−69.35
−69.4
−69.45
−69.5
−69.55
−69.6
−69.65
−69.7
pull
Entries 93
Mean −1335
Std Dev 1386
300
200
100
0
−100
−200
−300

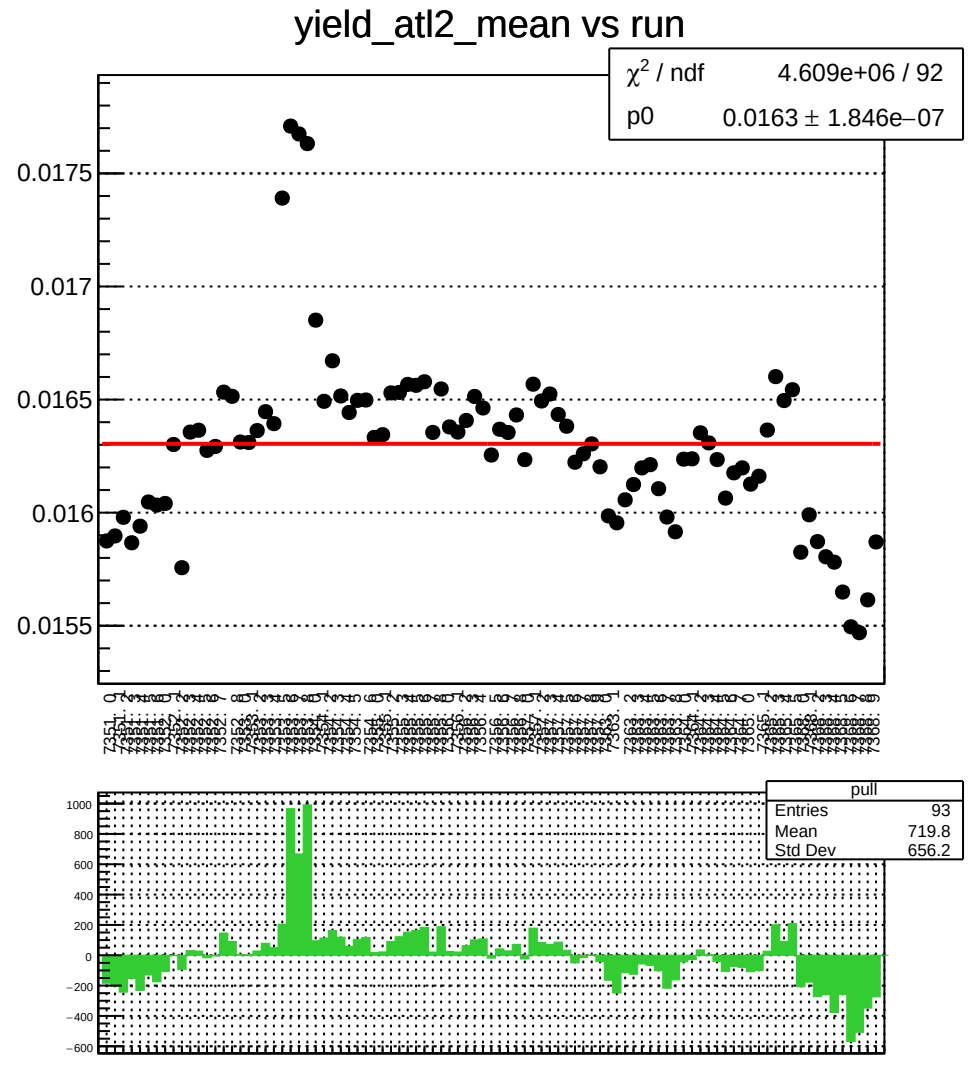

pull1D
Entries 93
Mean −1.611
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

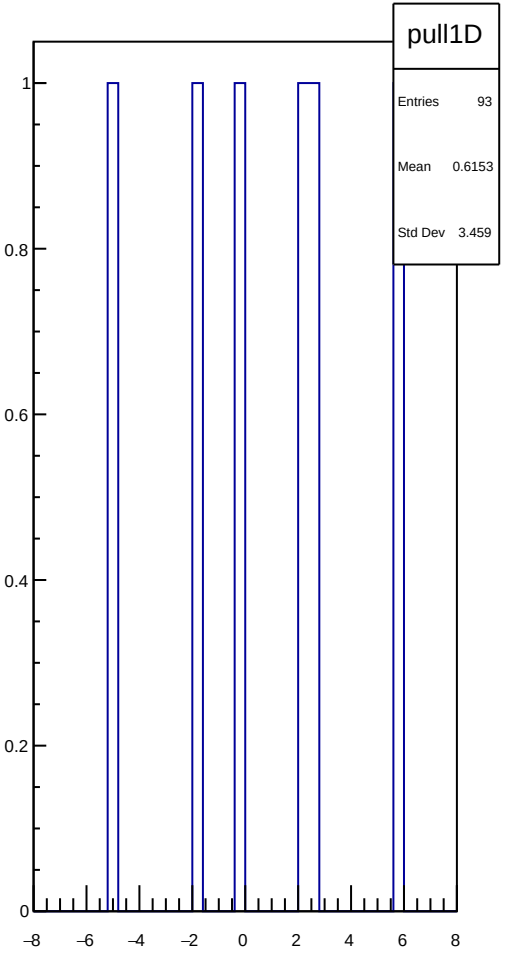

yield_dsr_rms vs run
χ² / ndf 6.432e+04 / 92
p0 0.0546 ± 4.189e−05
0.09
0.08
0.07
0.06
0.05
0.04

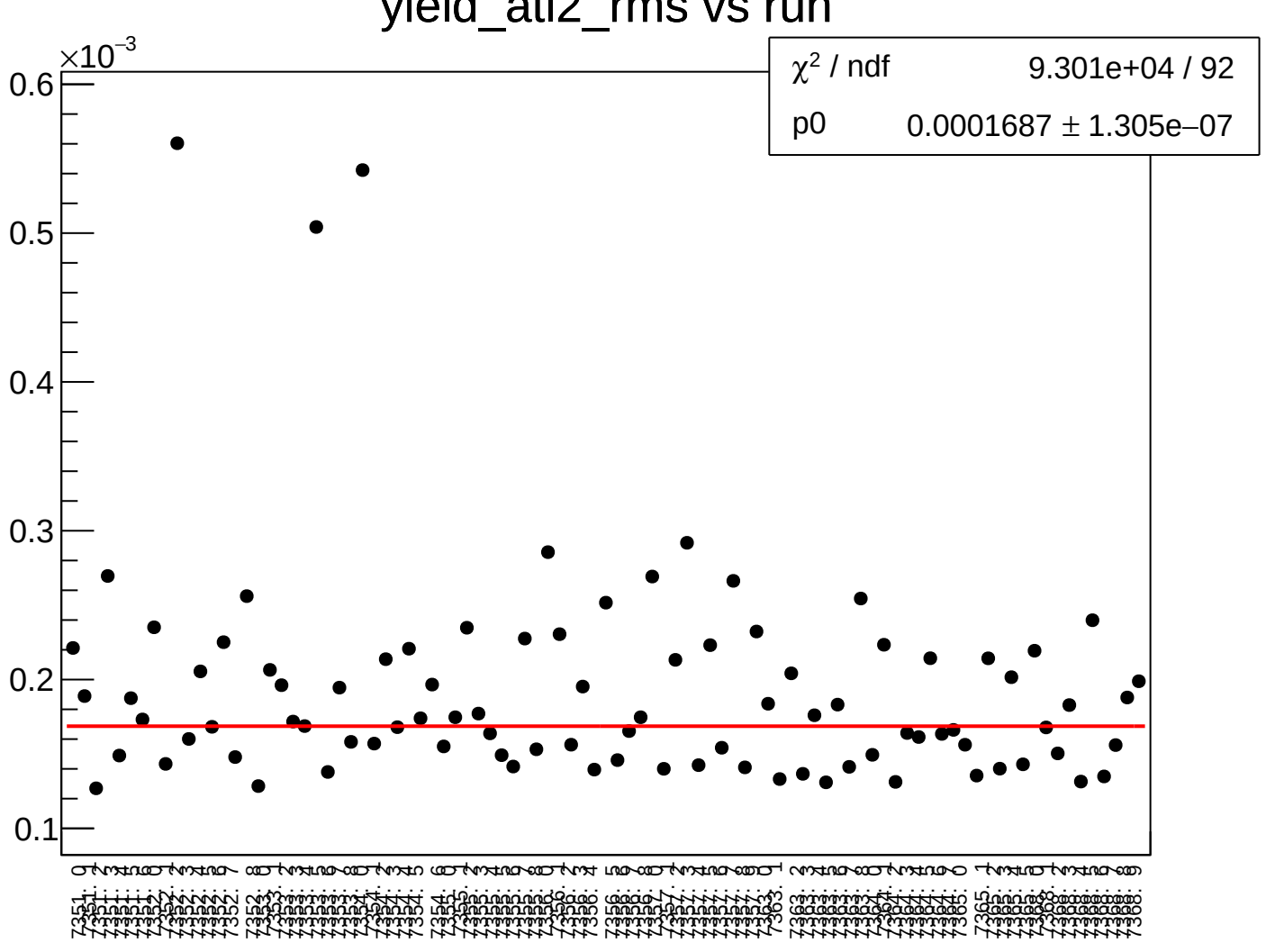

yield_atl1_mean vs run
χ² / ndf 4.616e+05 / 92
p0 0.02583 ± 7.147e−08
0.02595
0.0259
0.02585
0.0258
0.02575
pull
Entries 93
Mean −851.2
Std Dev 896.2
150
100
50
0
−50
−100
−150

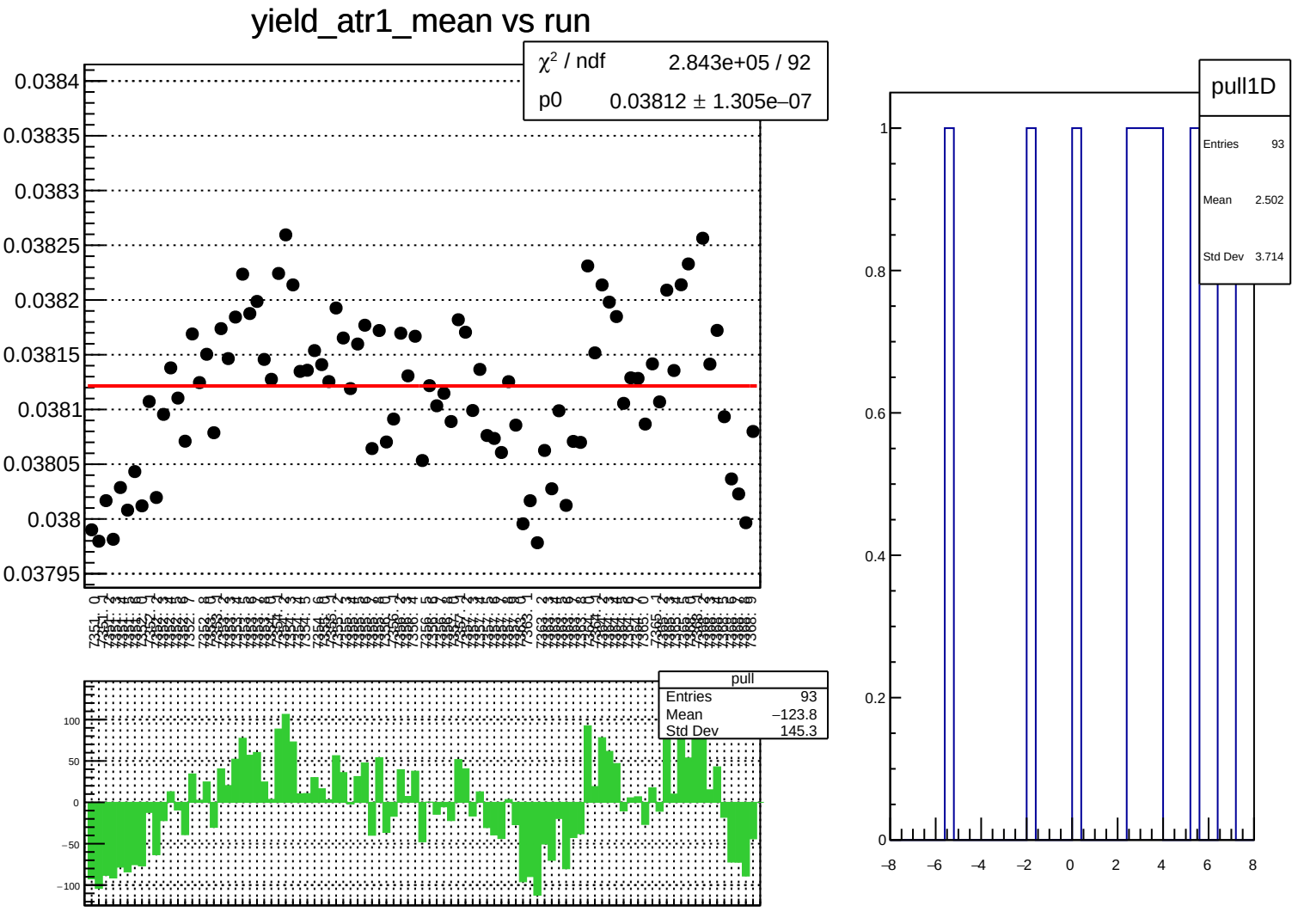

pull1D
Entries 93
Mean 0.2467
Std Dev 2.797
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

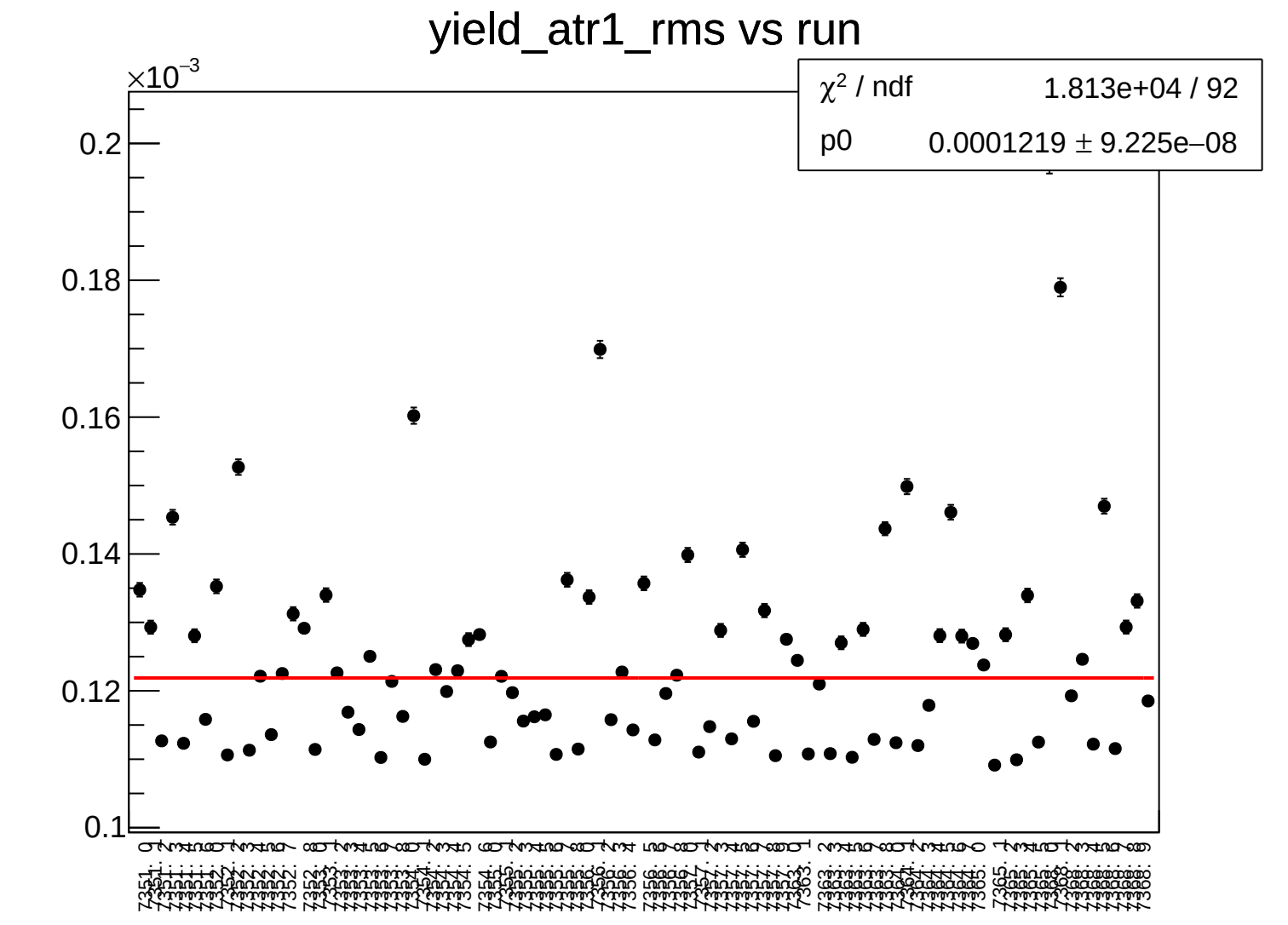

yield_atl1_rms vs run
×10⁻⁶
χ² / ndf 7754 / 92
p0 6.696e−05 ± 5.053e−08
95
90
85
80
75
70
65
60

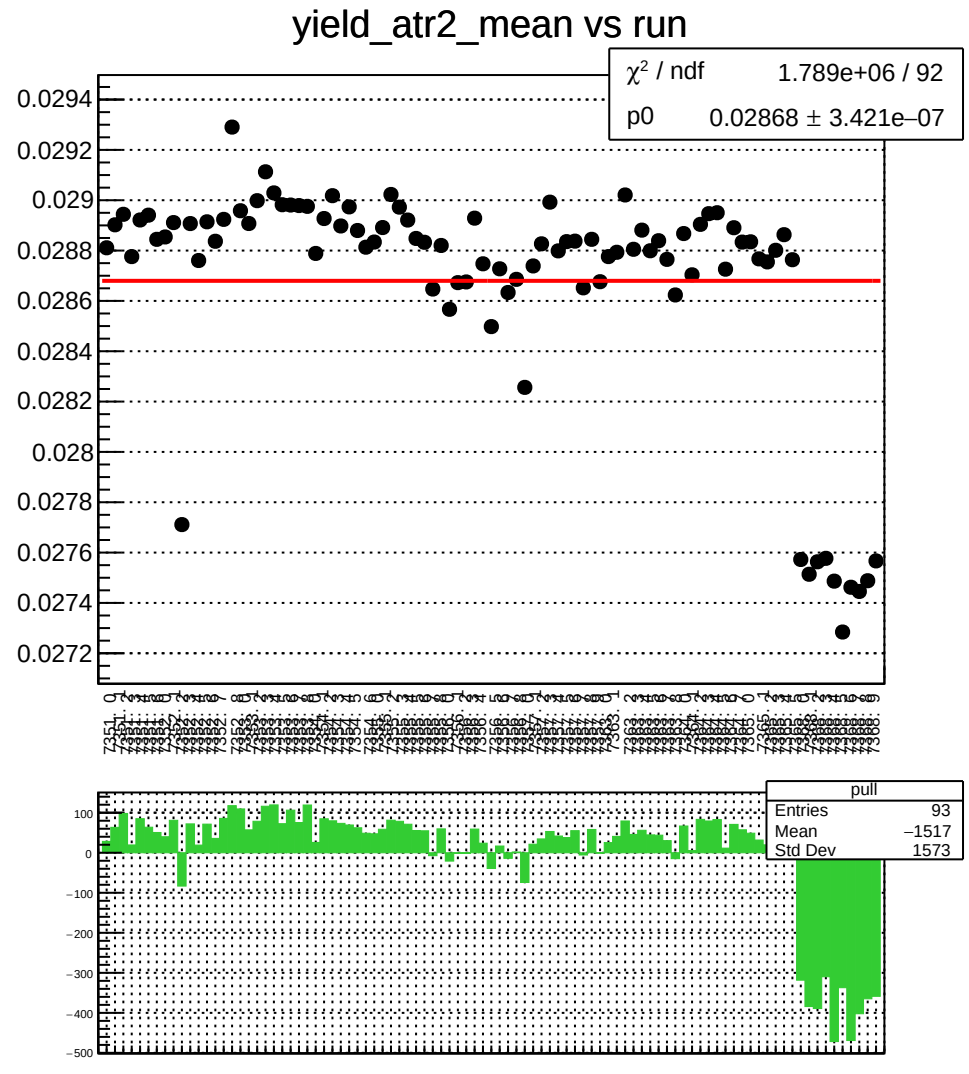

yield_atl2_mean vs run
χ² / ndf 4.609e+06 / 92
p0 0.0163 ± 1.846e−07
0.0175
0.017
0.0165
0.016
0.0155
pull
Entries 93
Mean 719.8
Std Dev 656.2
1000
800
600
400
200
0
−200
−400
−600

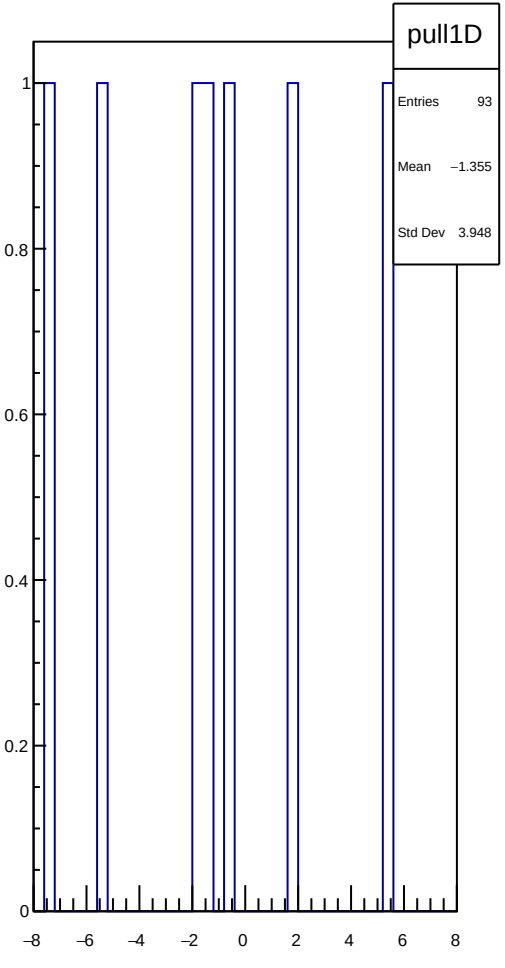

pull1D
Entries 93
Mean 0.6153
Std Dev 3.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

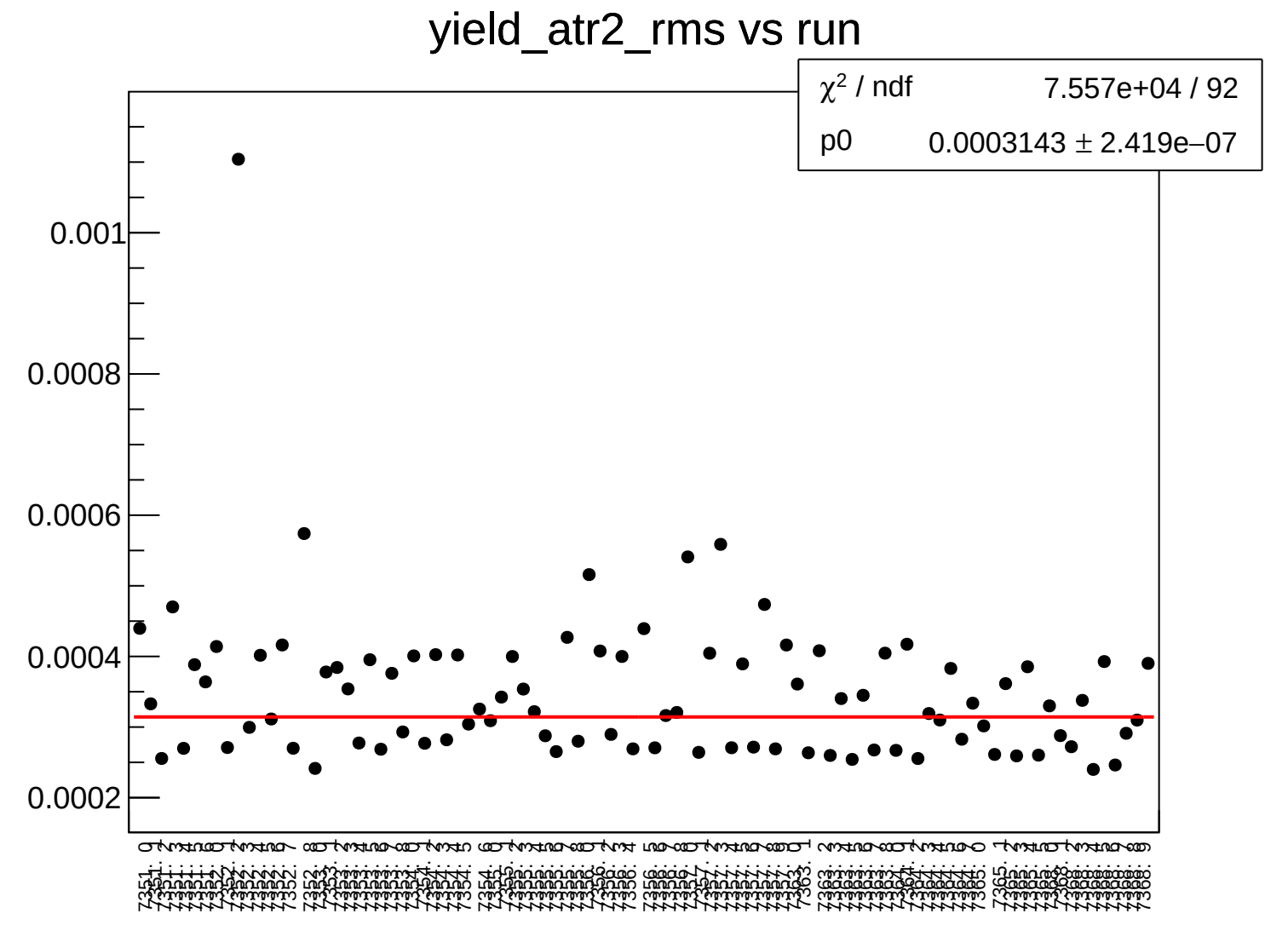

yield_atl2_rms vs run
×10⁻³
0.6
0.5
0.4
0.3
0.2
0.1
χ² / ndf 9.301e+04 / 92
p0 0.0001687 ± 1.305e−07

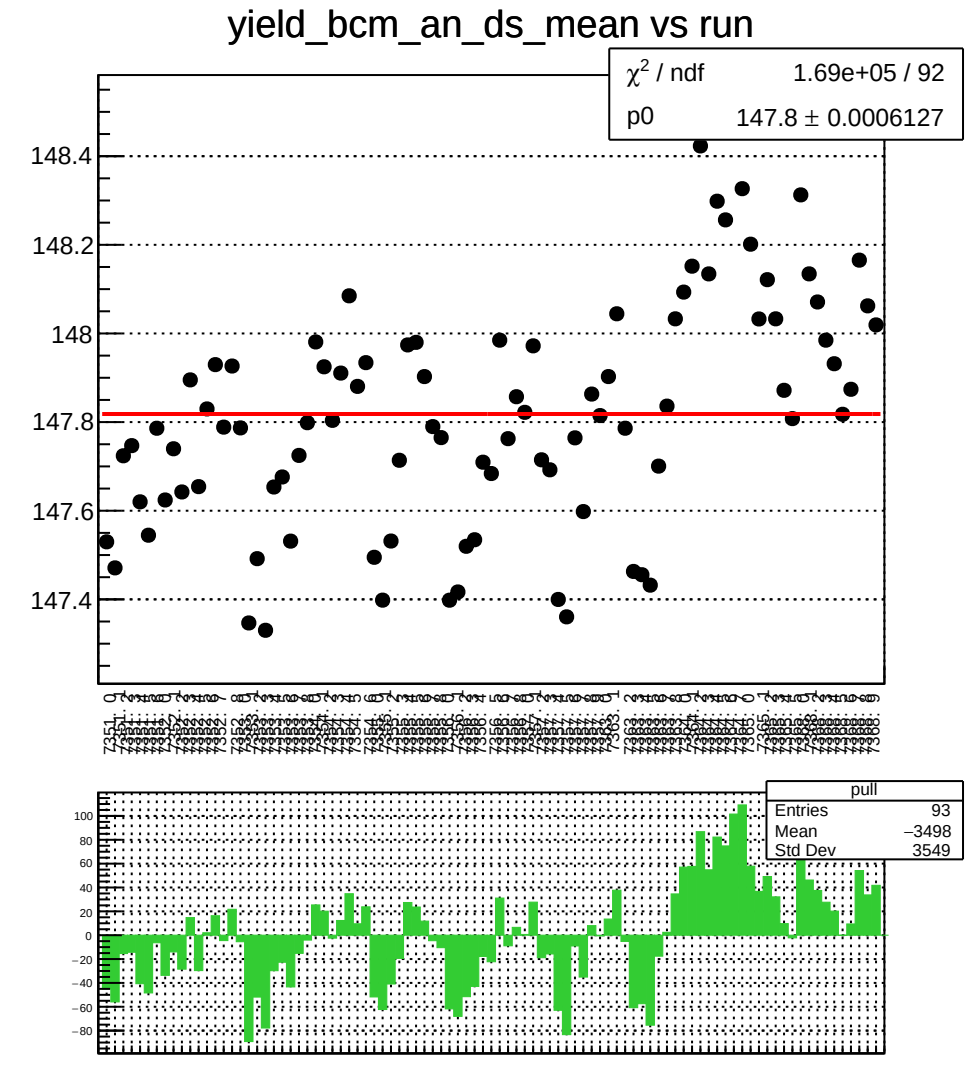

yield_atr1_mean vs run
χ² / ndf 2.843e+05 / 92
p0 0.03812 ± 1.305e−07
0.0384
0.03835
0.0383
0.03825
0.0382
0.03815
0.0381
0.03805
0.038
0.03795
pull
Entries 93
Mean −123.8
Std Dev 145.3
100
50
0
−50
−100
pull1D
Entries 93
Mean 2.502
Std Dev 3.714
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

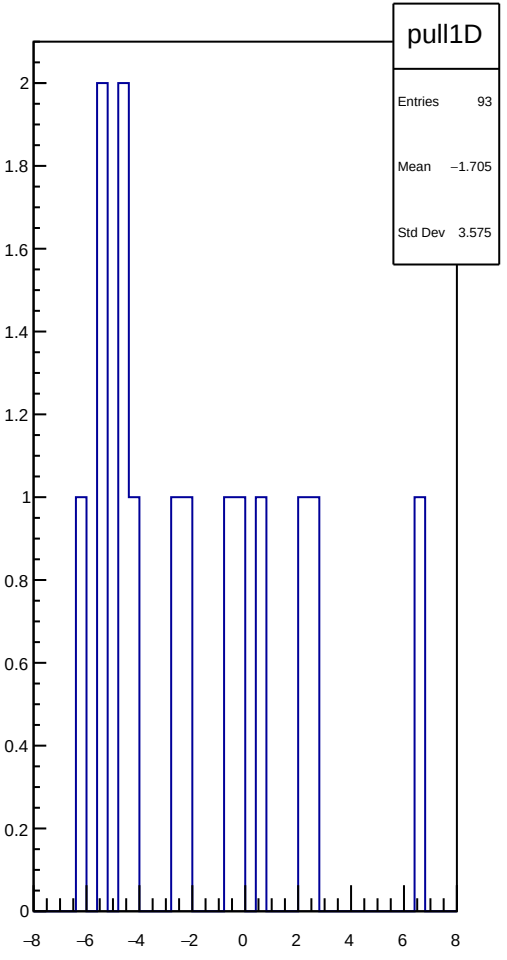

yield_atr1_rms vs run
×10⁻³
χ² / ndf 1.813e+04 / 92
p0 0.0001219 ± 9.225e−08
0.2
0.18
0.16
0.14
0.12
0.1

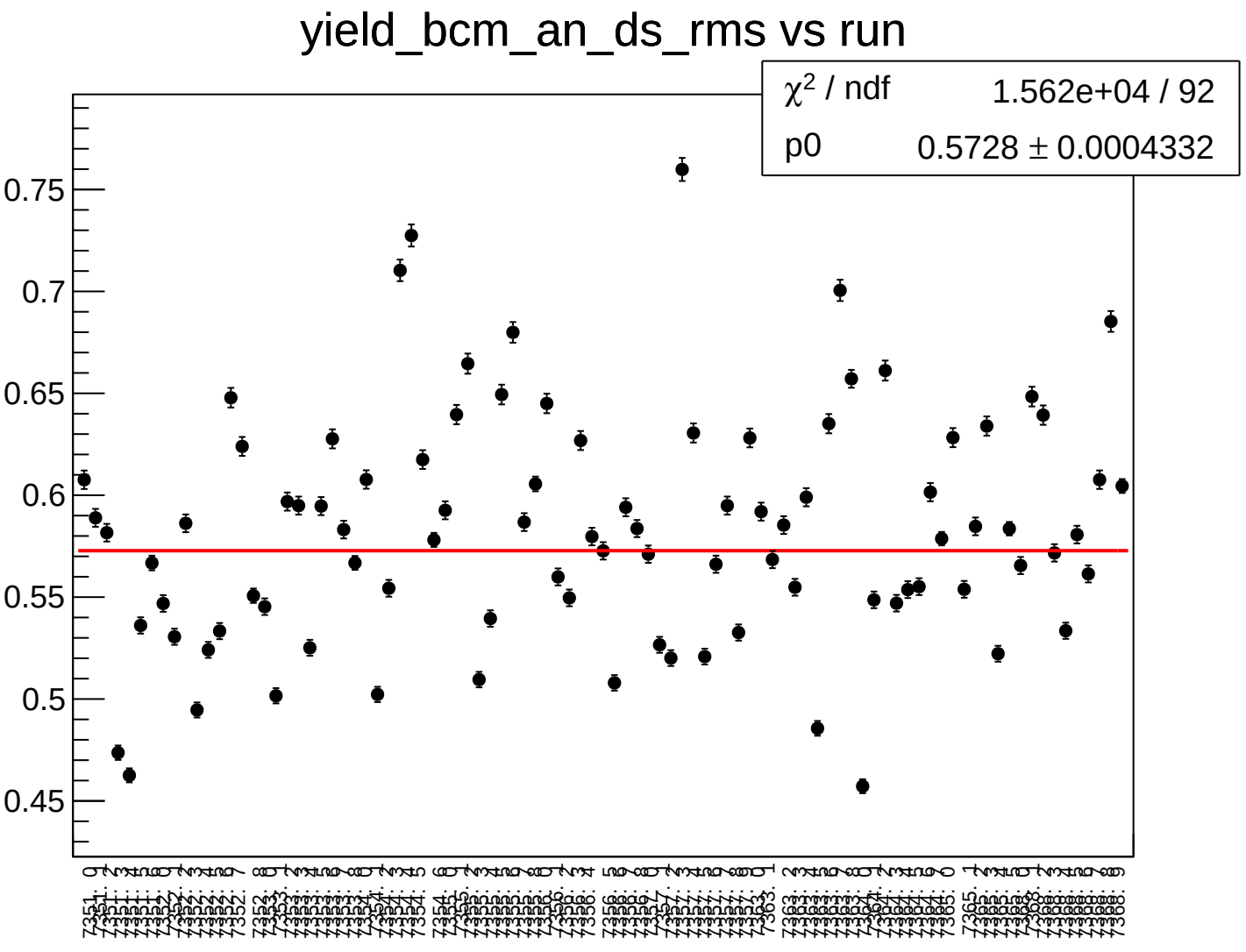

yield_atr2_mean vs run
χ² / ndf 1.789e+06 / 92
p0 0.02868 ± 3.421e–07
0.0294
0.0292
0.029
0.0288
0.0286
0.0284
0.0282
0.028
0.0278
0.0276
0.0274
0.0272
pull
Entries 93
Mean –1517
Std Dev 1573
100
0
–100
–200
–300
–400
–500

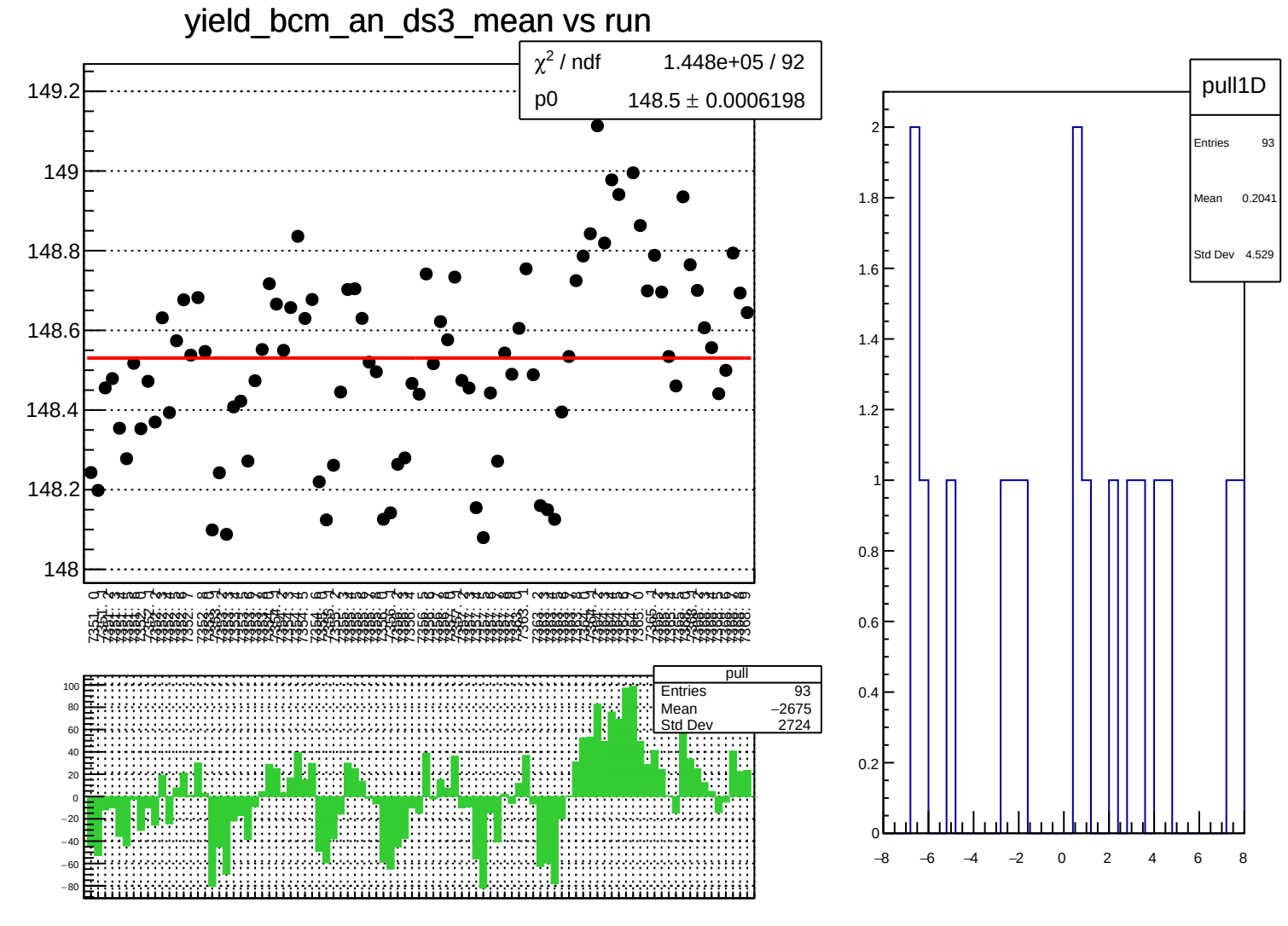

pull1D
Entries 93
Mean –1.355
Std Dev 3.948
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

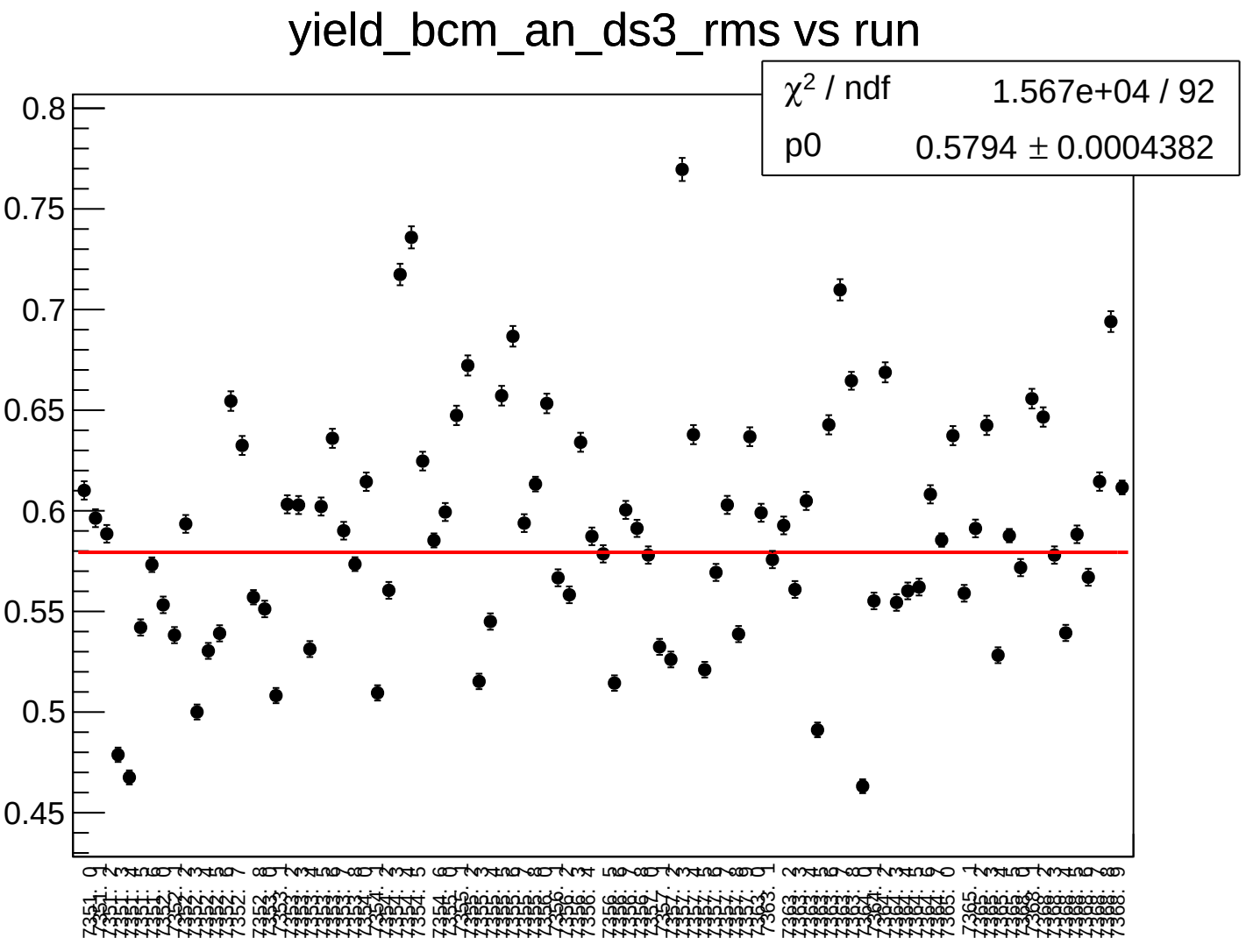

yield_atr2_rms vs run
χ^2 / ndf 7.557e+04 / 92
p0 0.0003143 ± 2.419e−07
0.001
0.0008
0.0006
0.0004
0.0002

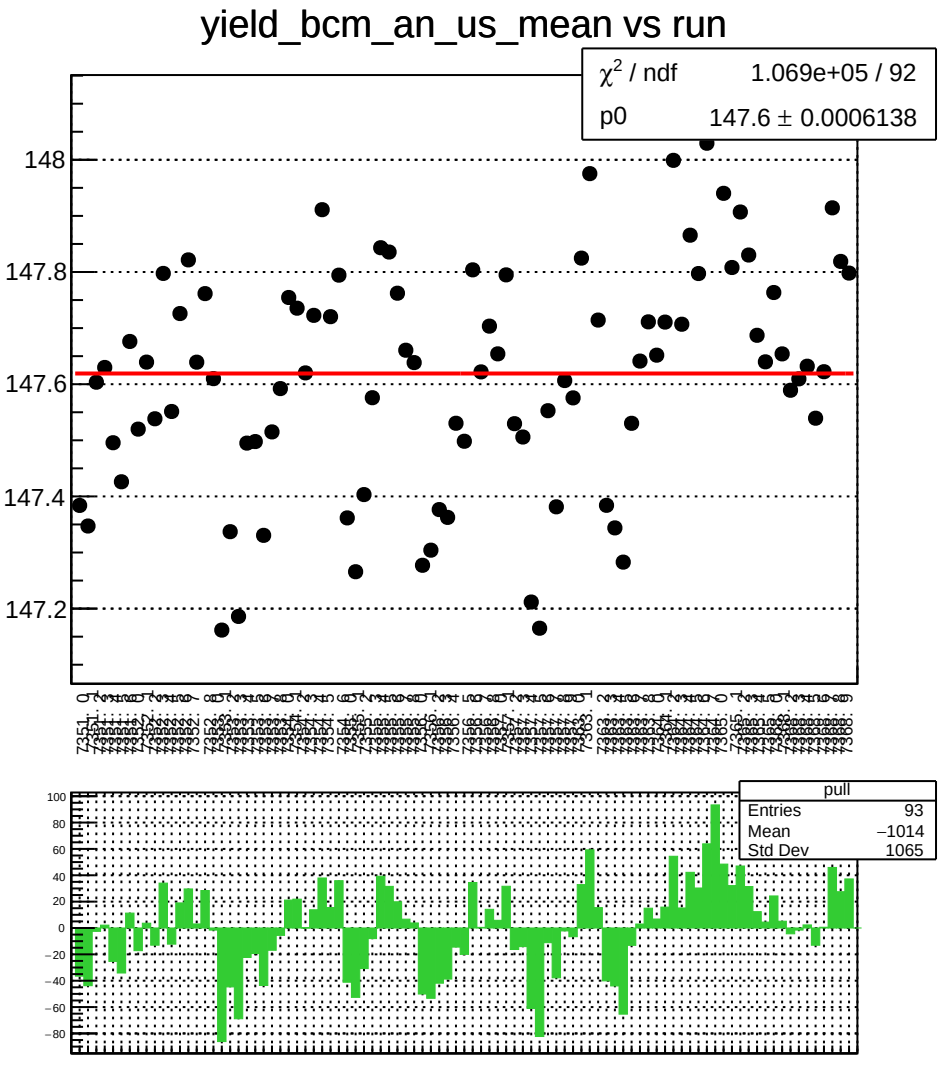

yield_bcm_an_ds_mean vs run
χ² / ndf 1.69e+05 / 92
p0 147.8 ± 0.0006127
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 93
Mean −3498
Std Dev 3549
100
80
60
40
20
0
−20
−40
−60
−80

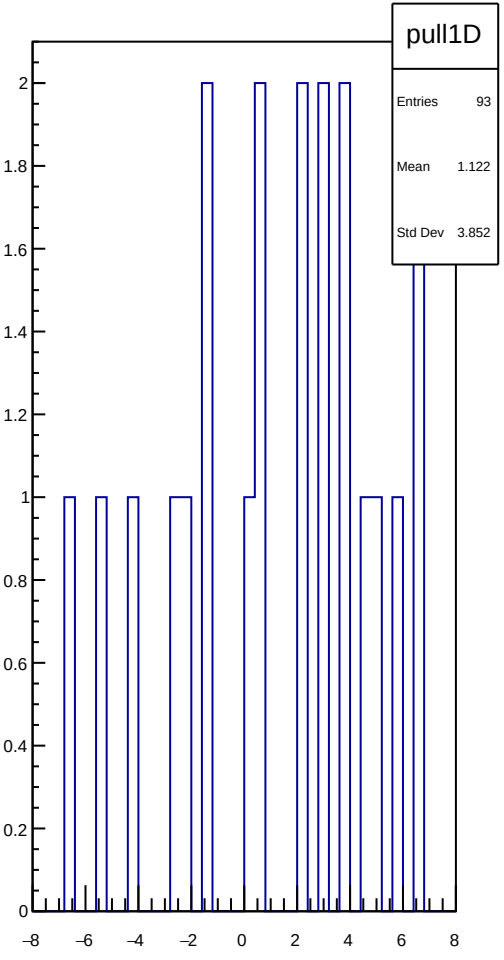

pull1D
Entries 93
Mean −1.705
Std Dev 3.575
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

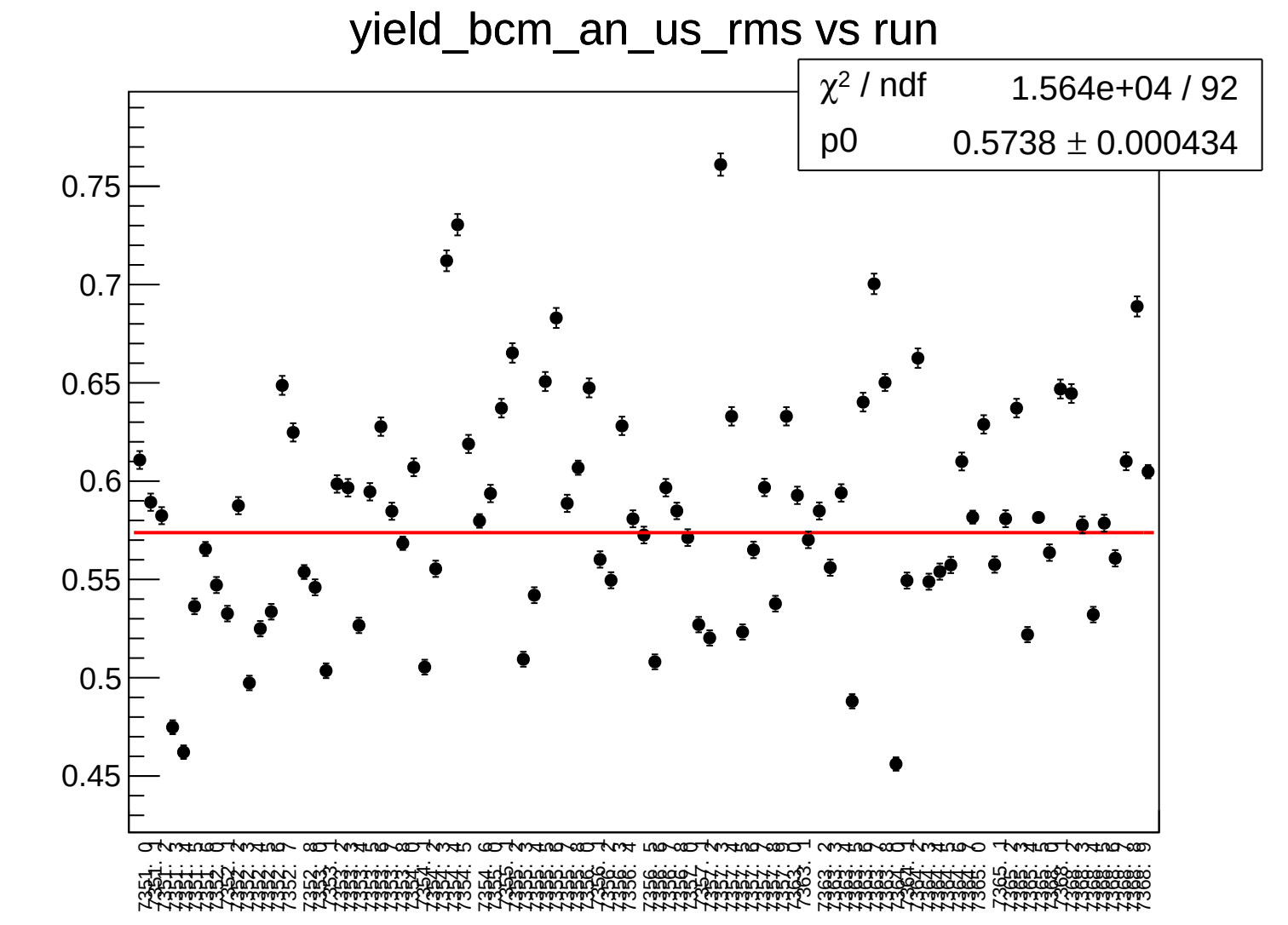

yield_bcm_an_ds_rms vs run
χ² / ndf 1.562e+04 / 92
p0 0.5728 ± 0.0004332
0.75
0.7
0.65
0.6
0.55
0.5
0.45

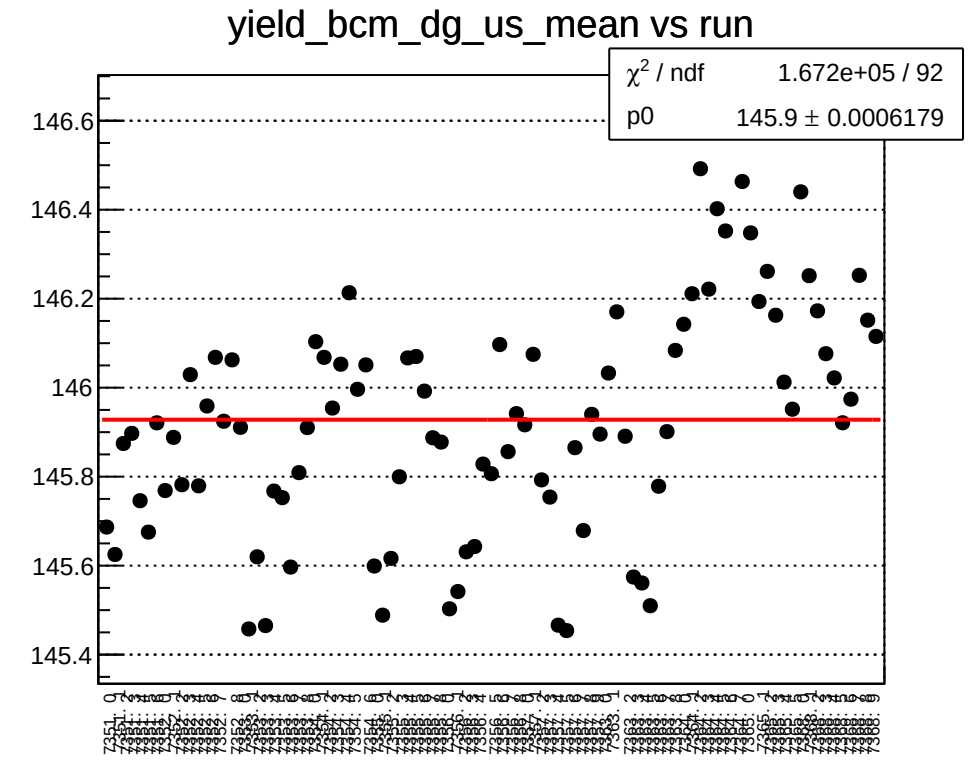

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.448e+05 / 92
p0 148.5 ± 0.0006198
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 93
Mean −2675
Std Dev 2724
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 93
Mean 0.2041
Std Dev 4.529
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

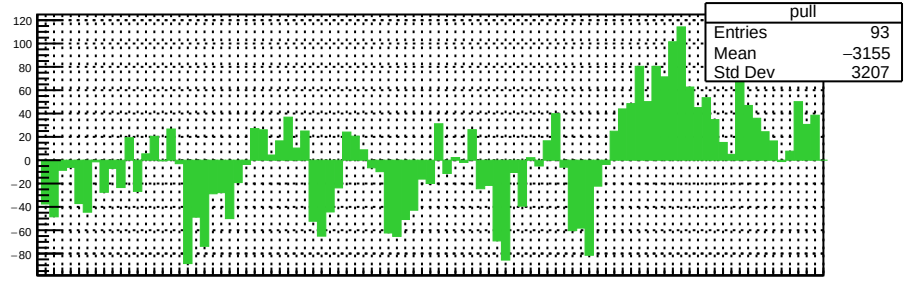

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.567e+04 / 92
p0 0.5794 ± 0.0004382
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

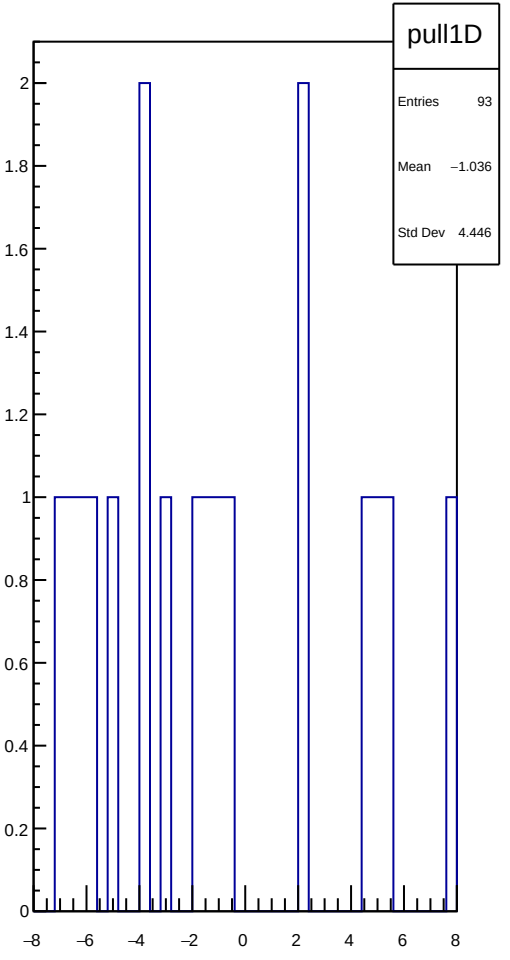

yield_bcm_an_us_mean vs run
χ² / ndf 1.069e+05 / 92
p0 147.6 ± 0.0006138
148
147.8
147.6
147.4
147.2
pull
Entries 93
Mean −1014
Std Dev 1065
100
80
60
40
20
0
−20
−40
−60
−80

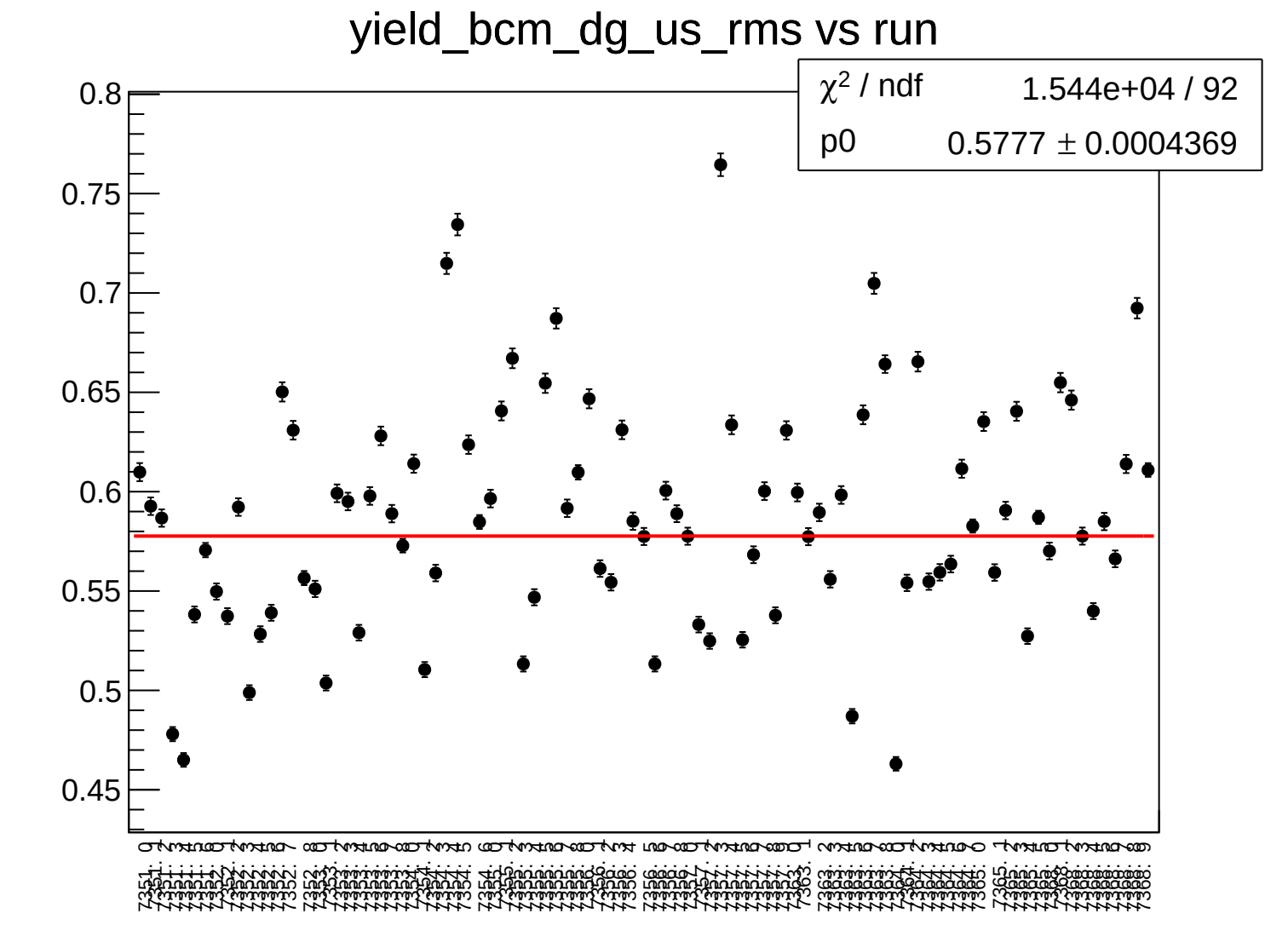

pull1D
Entries 93
Mean 1.122
Std Dev 3.852
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

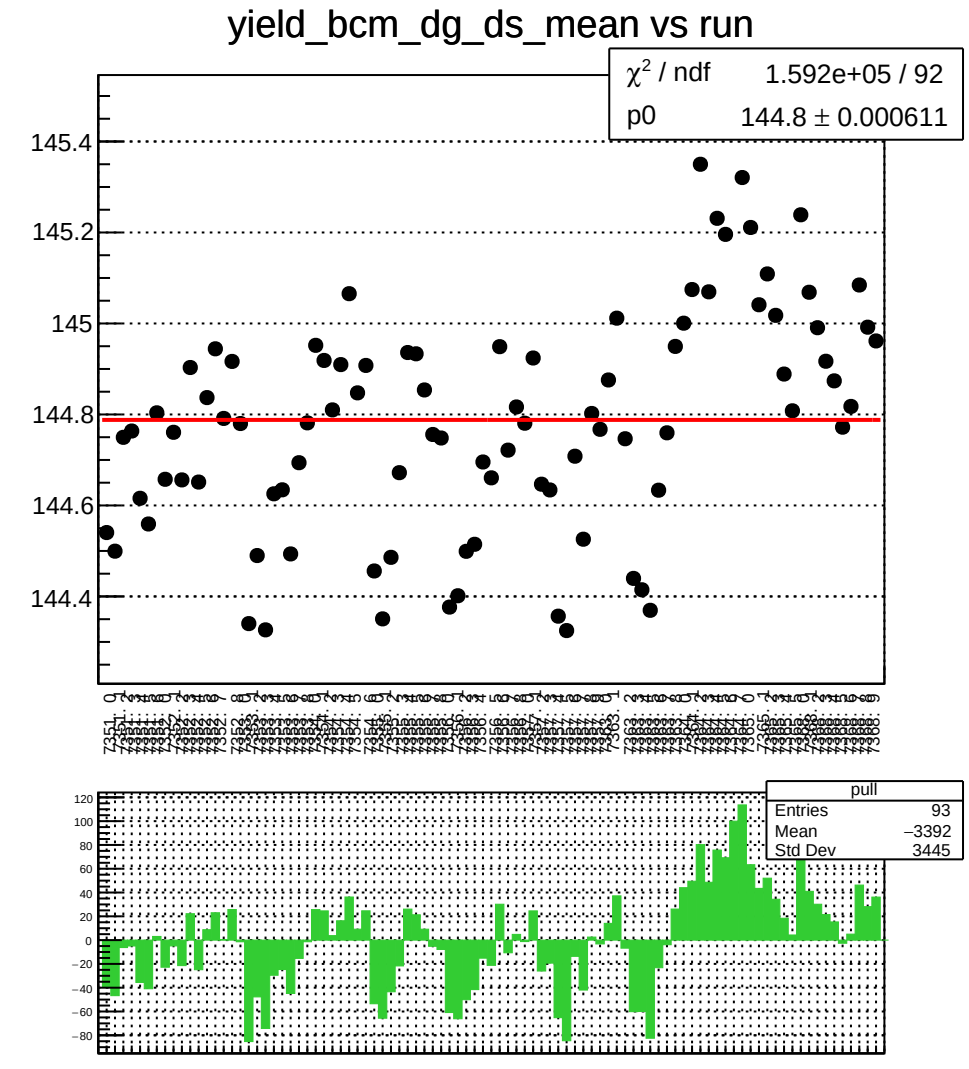

yield_bcm_an_us_rms vs run
χ² / ndf 1.564e+04 / 92
p0 0.5738 ± 0.000434
0.75
0.7
0.65
0.6
0.55
0.5
0.45

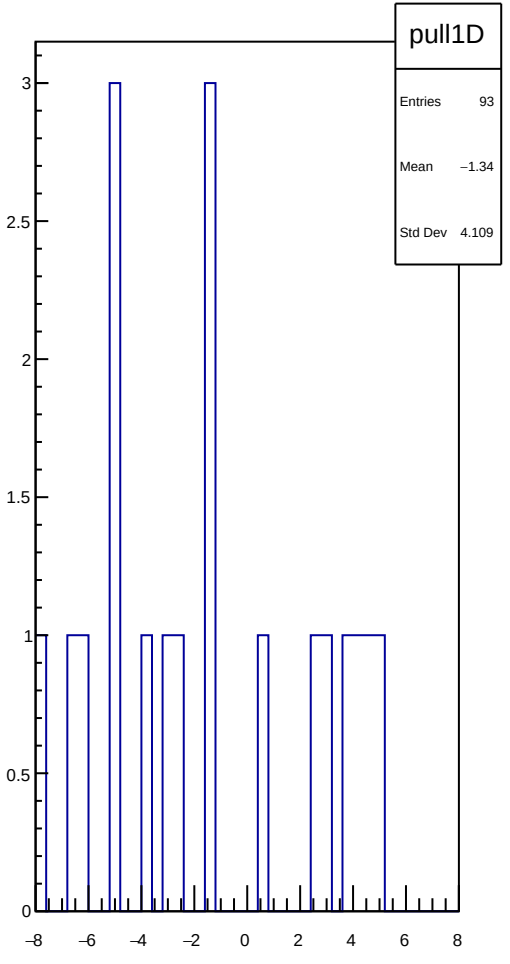

yield_bcm_dg_us_mean vs run
χ² / ndf 1.672e+05 / 92
p0 145.9 ± 0.0006179
146.6
146.4
146.2
146
145.8
145.6
145.4

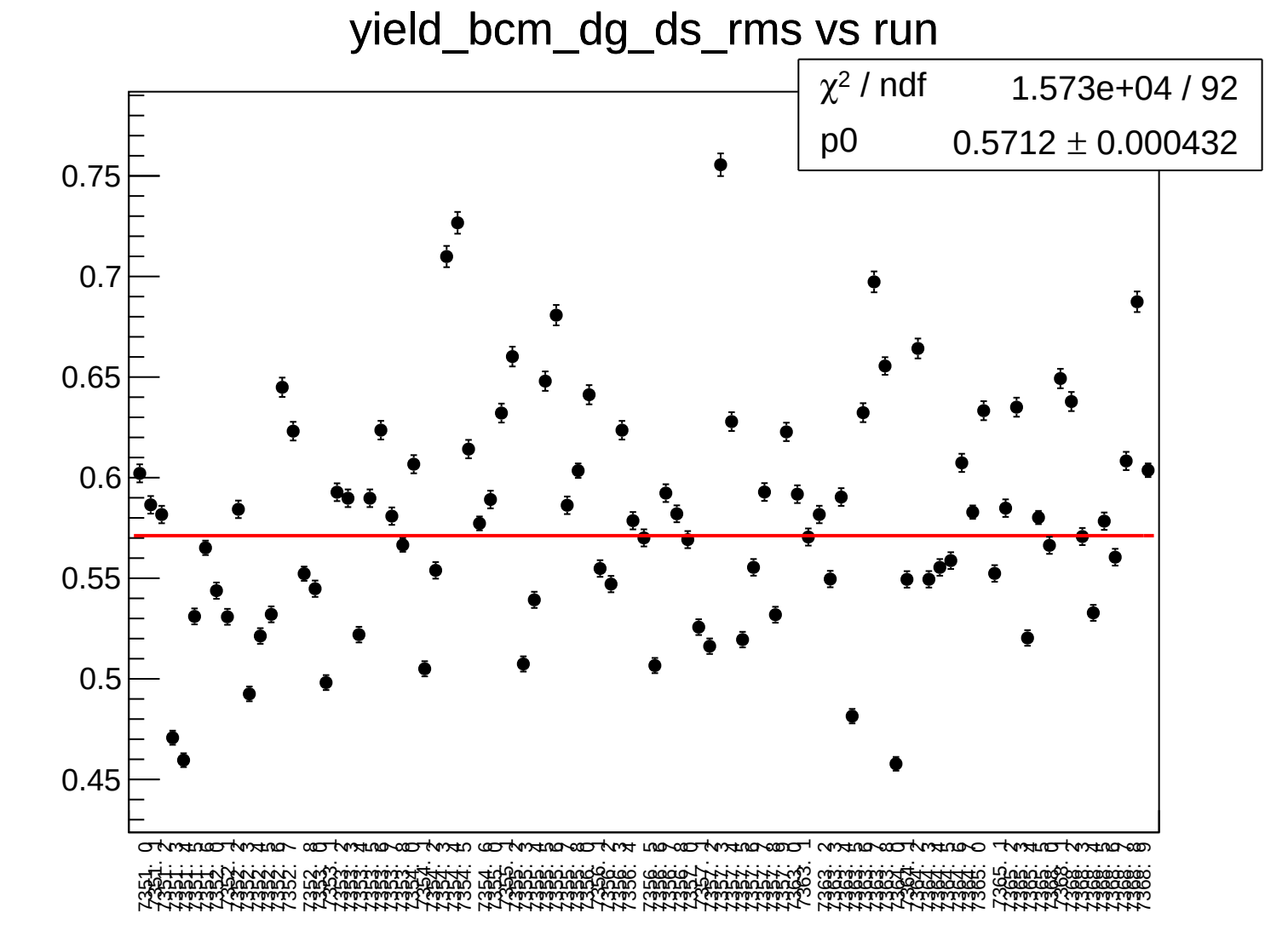

pull
Entries 93
Mean −3155
Std Dev 3207
120
100
80
60
40
20
0
−20
−40
−60
−80

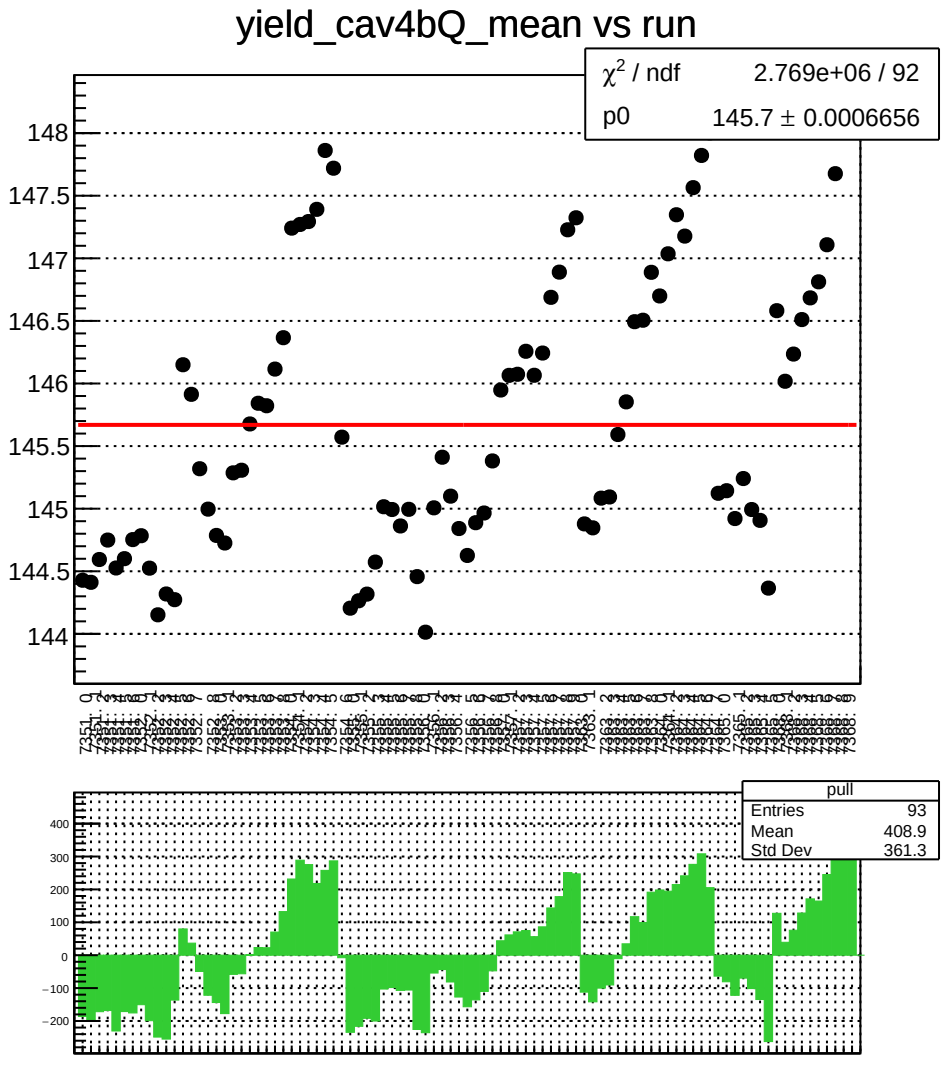

pull1D
Entries 93
Mean −1.036
Std Dev 4.446
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

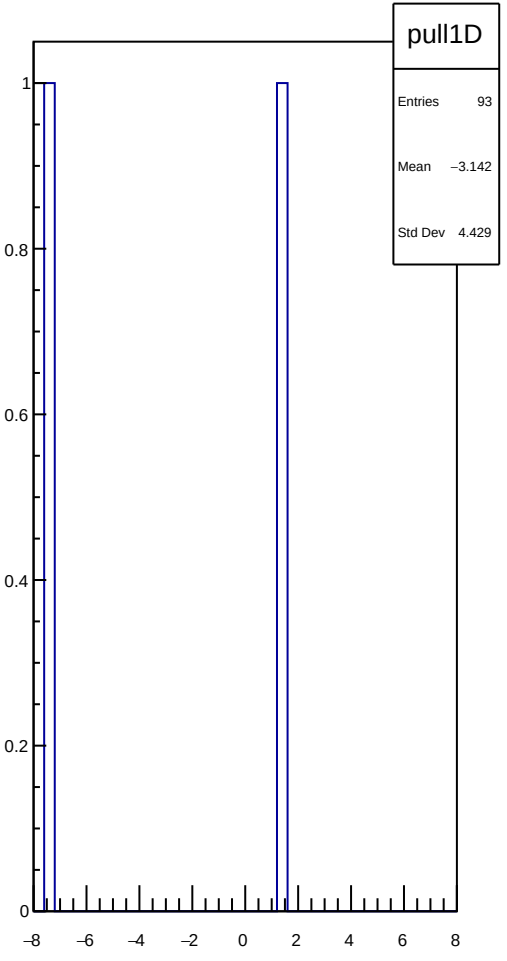

yield_bcm_dg_us_rms vs run
χ² / ndf 1.544e+04 / 92
p0 0.5777 ± 0.0004369
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

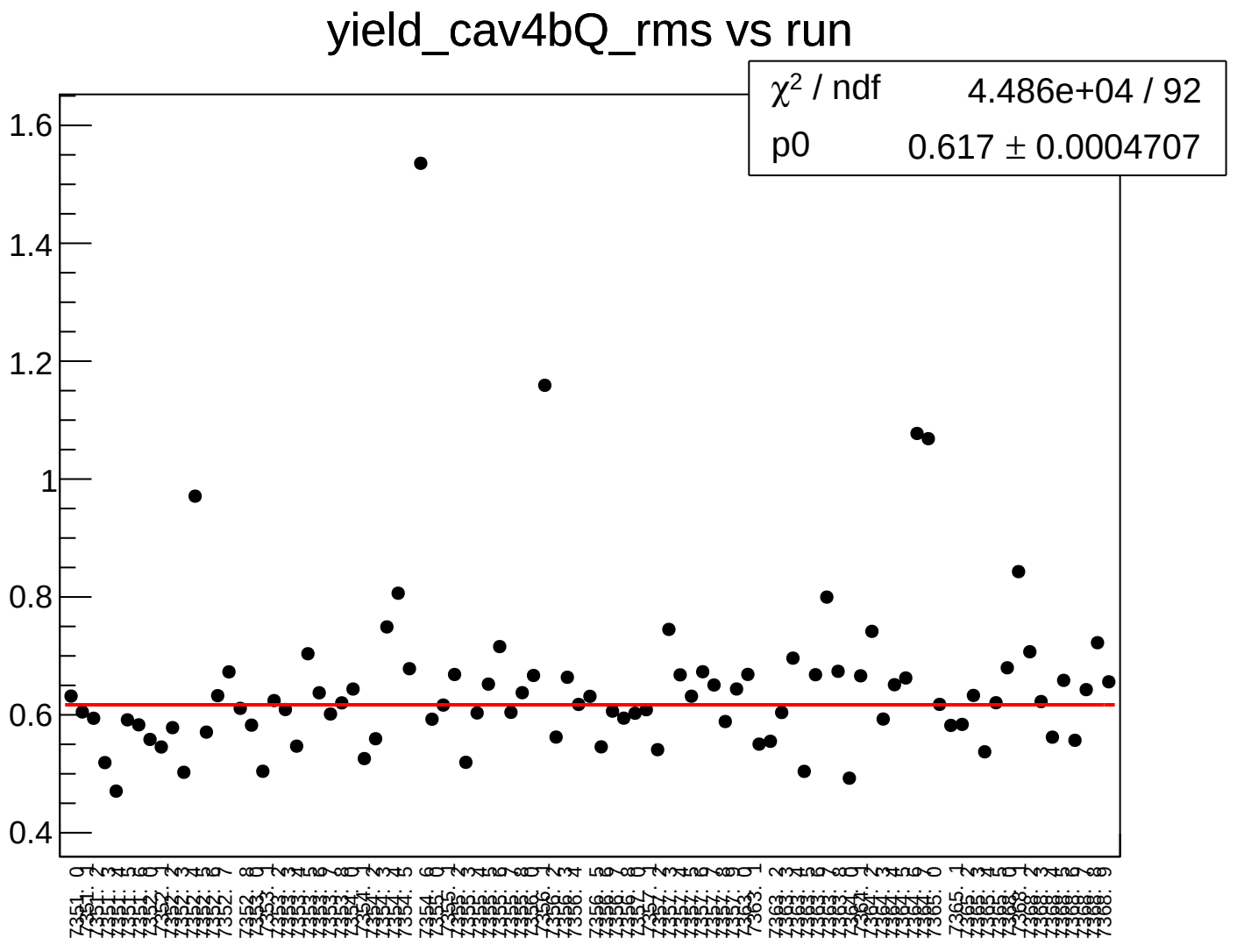

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.592e+05 / 92
p0 144.8 ± 0.000611
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 93
Mean −3392
Std Dev 3445
120
100
80
60
40
20
0
−20
−40
−60
−80

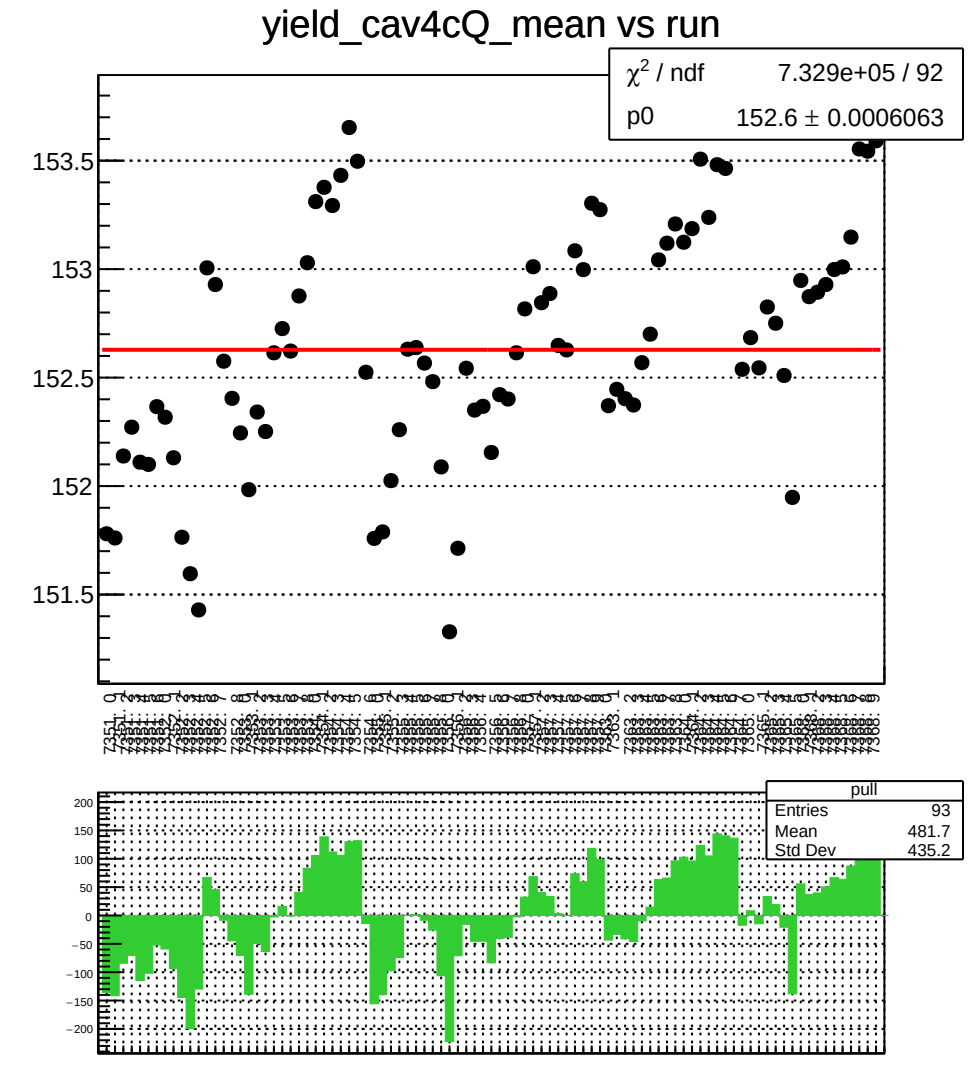

pull1D
Entries 93
Mean −1.34
Std Dev 4.109
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

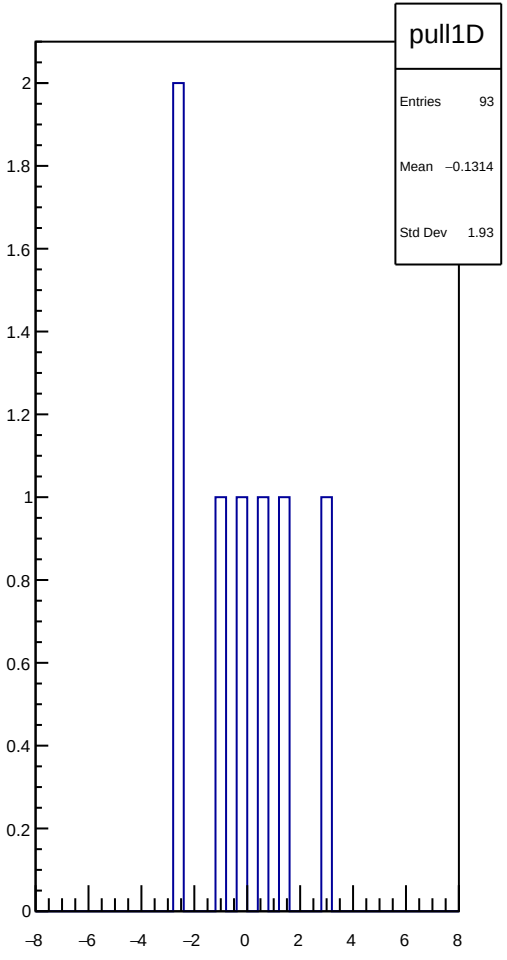

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.573e+04 / 92
p0 0.5712 ± 0.000432
0.75
0.7
0.65
0.6
0.55
0.5
0.45

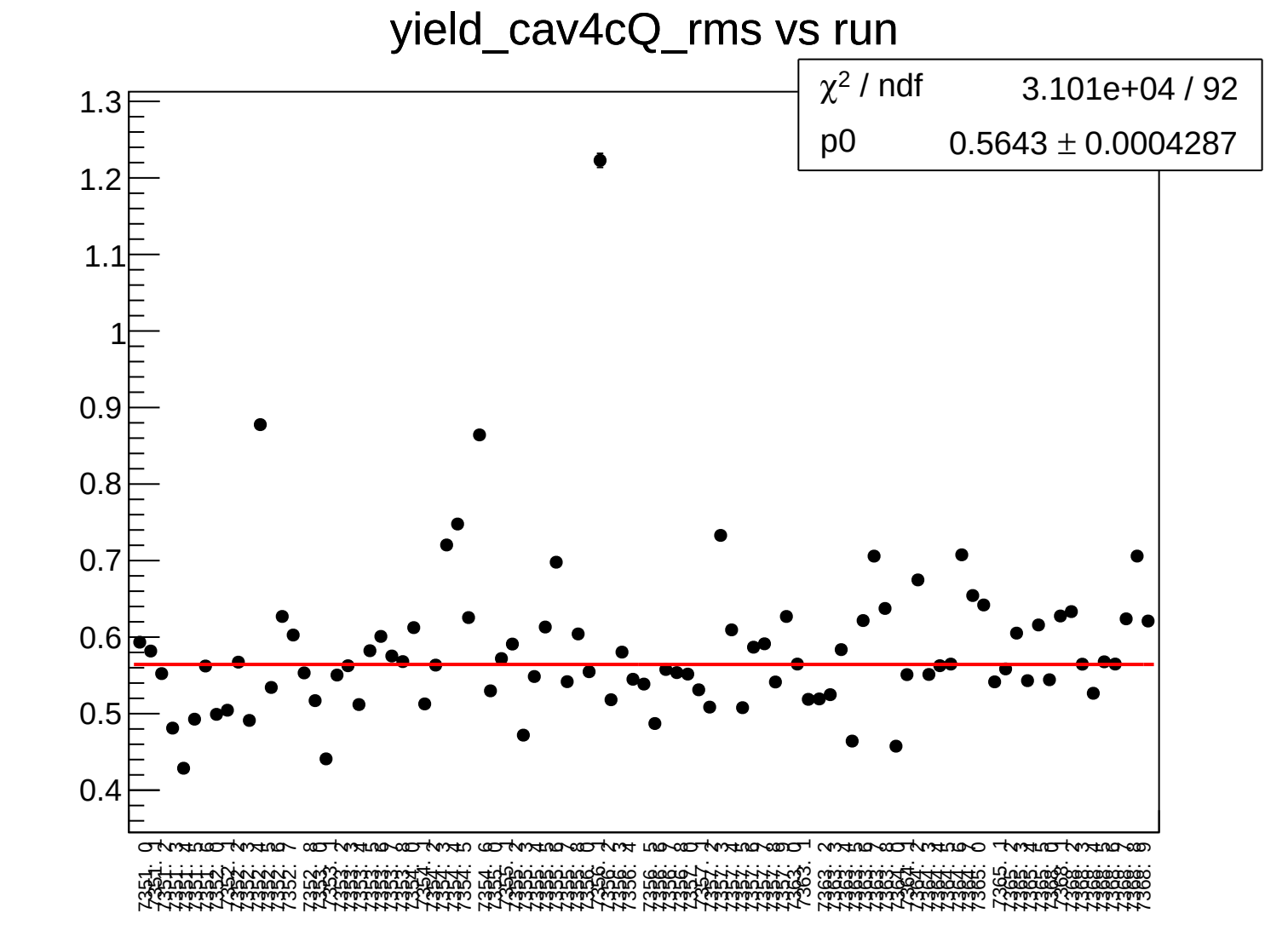

yield_cav4bQ_mean vs run
χ² / ndf 2.769e+06 / 92
p0 145.7 ± 0.0006656
148
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 93
Mean 408.9
Std Dev 361.3
400
300
200
100
0
−100
−200

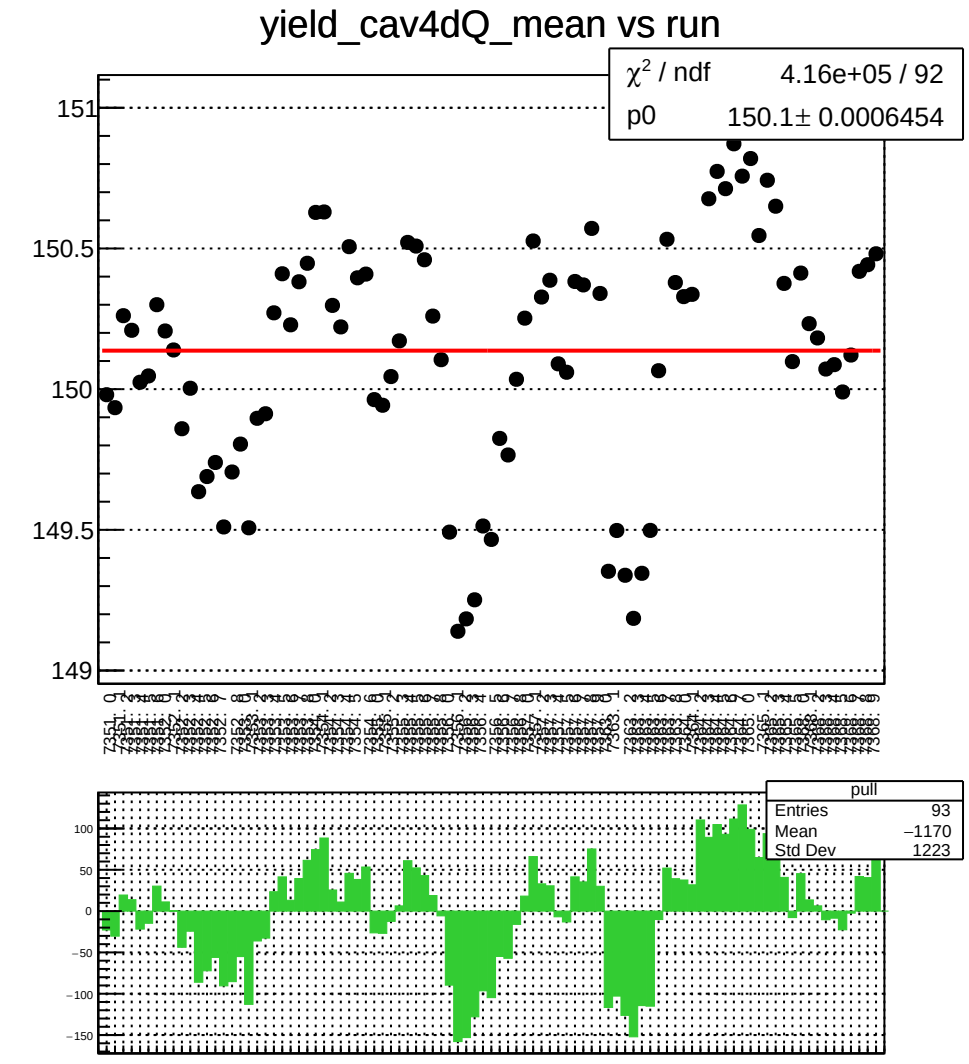

pull1D
Entries 93
Mean −3.142
Std Dev 4.429
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

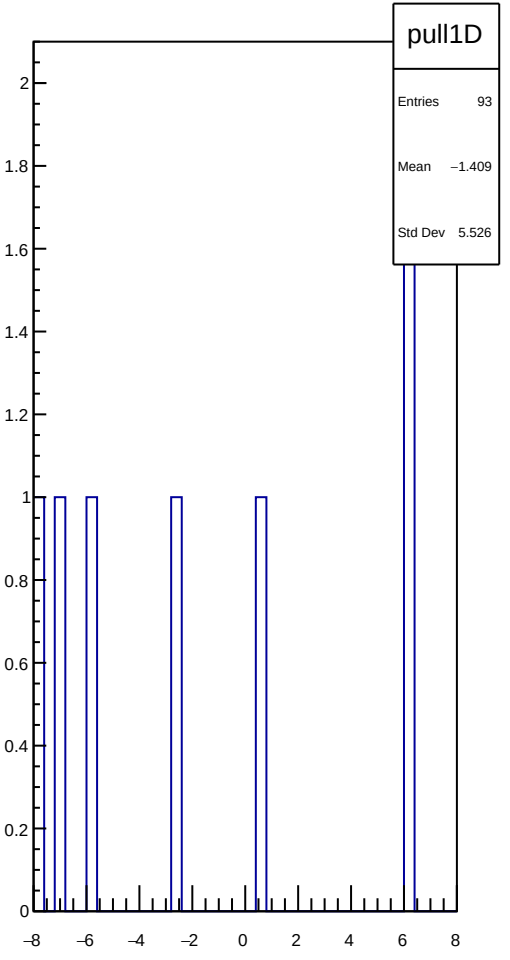

yield_cav4bQ_rms vs run
χ² / ndf 4.486e+04 / 92
p0 0.617 ± 0.0004707
1.6
1.4
1.2
1
0.8
0.6
0.4

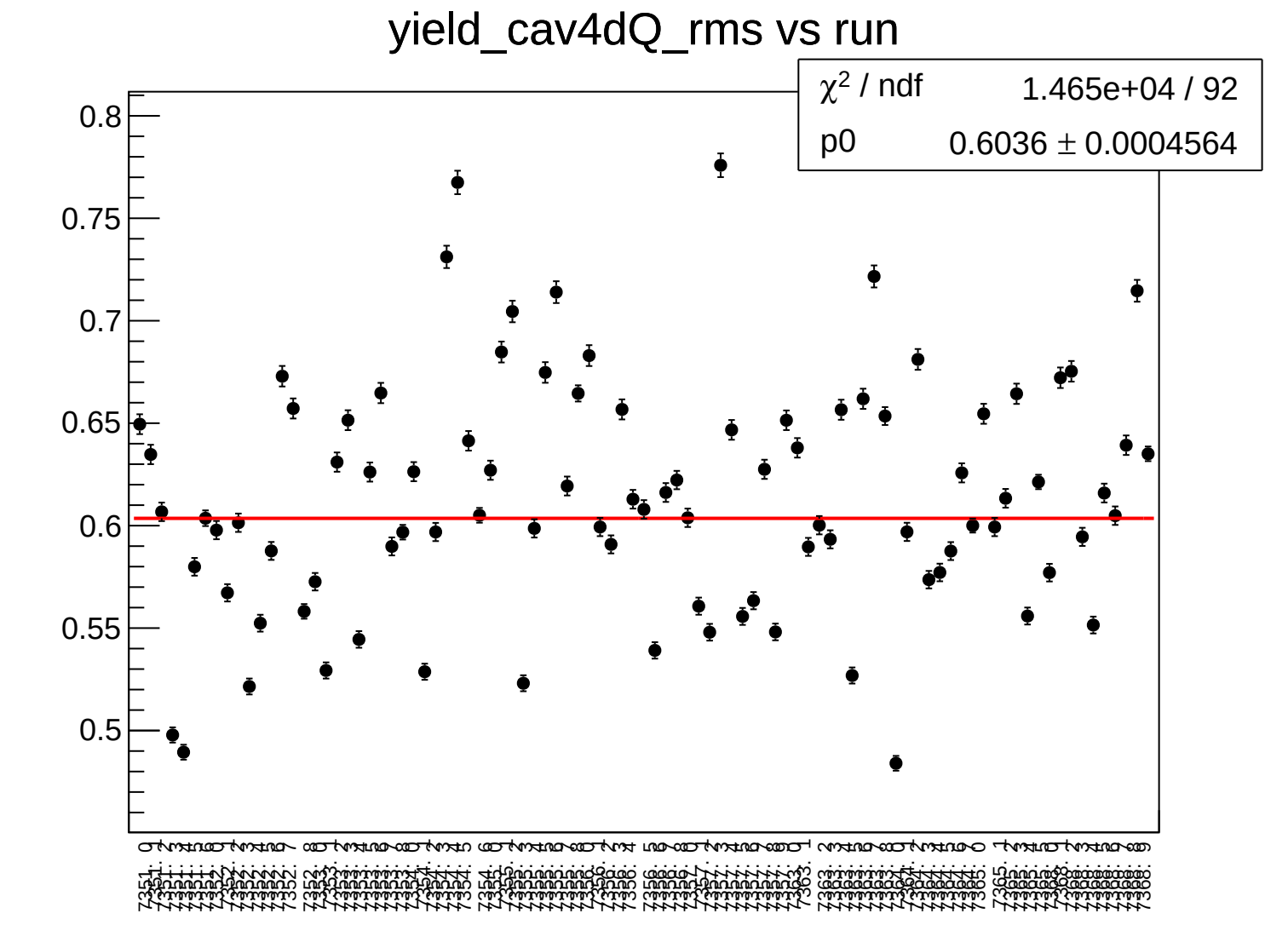

yield_cav4cQ_mean vs run
χ² / ndf 7.329e+05 / 92
p0 152.6 ± 0.0006063
153.5
153
152.5
152
151.5
pull
Entries 93
Mean 481.7
Std Dev 435.2
200
150
100
50
0
−50
−100
−150
−200

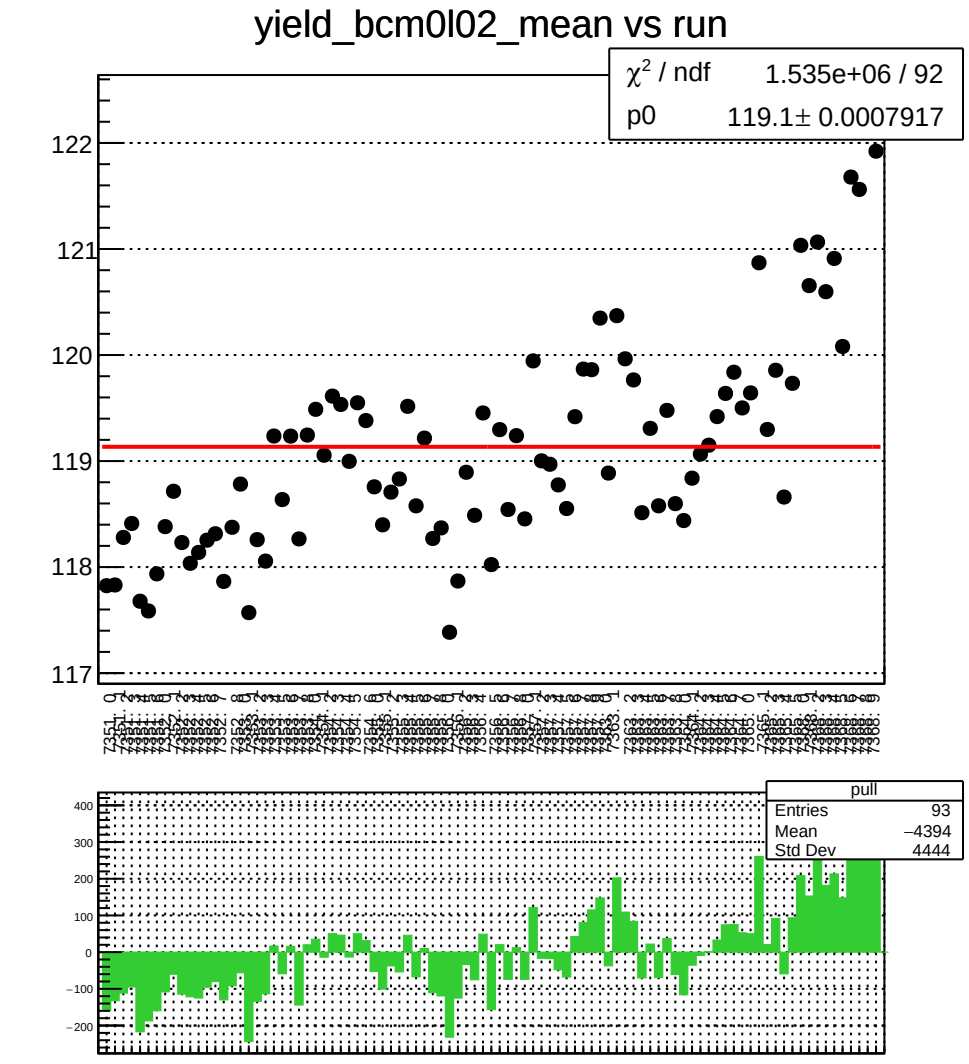

pull1D
Entries 93
Mean −0.1314
Std Dev 1.93
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

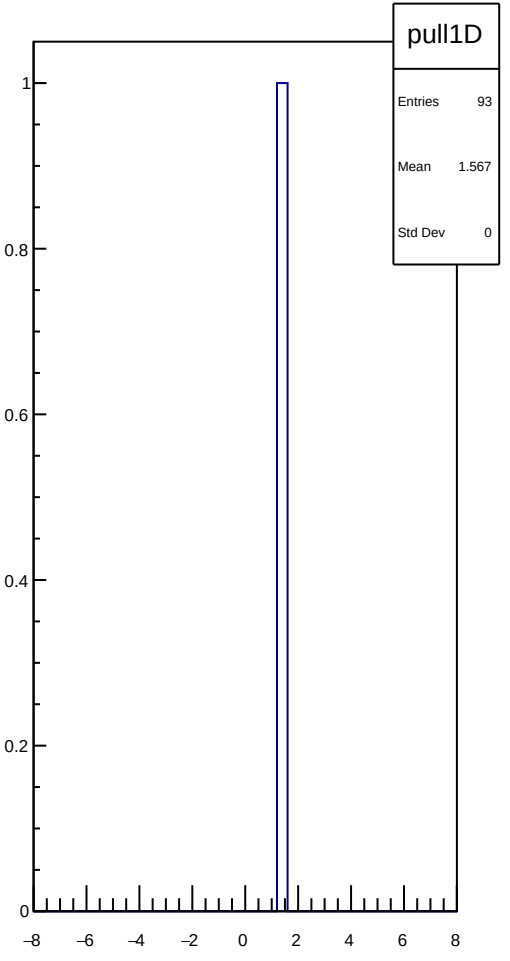

yield_cav4cQ_rms vs run
χ² / ndf 3.101e+04 / 92
p0 0.5643 ± 0.0004287
1.3
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5
0.4

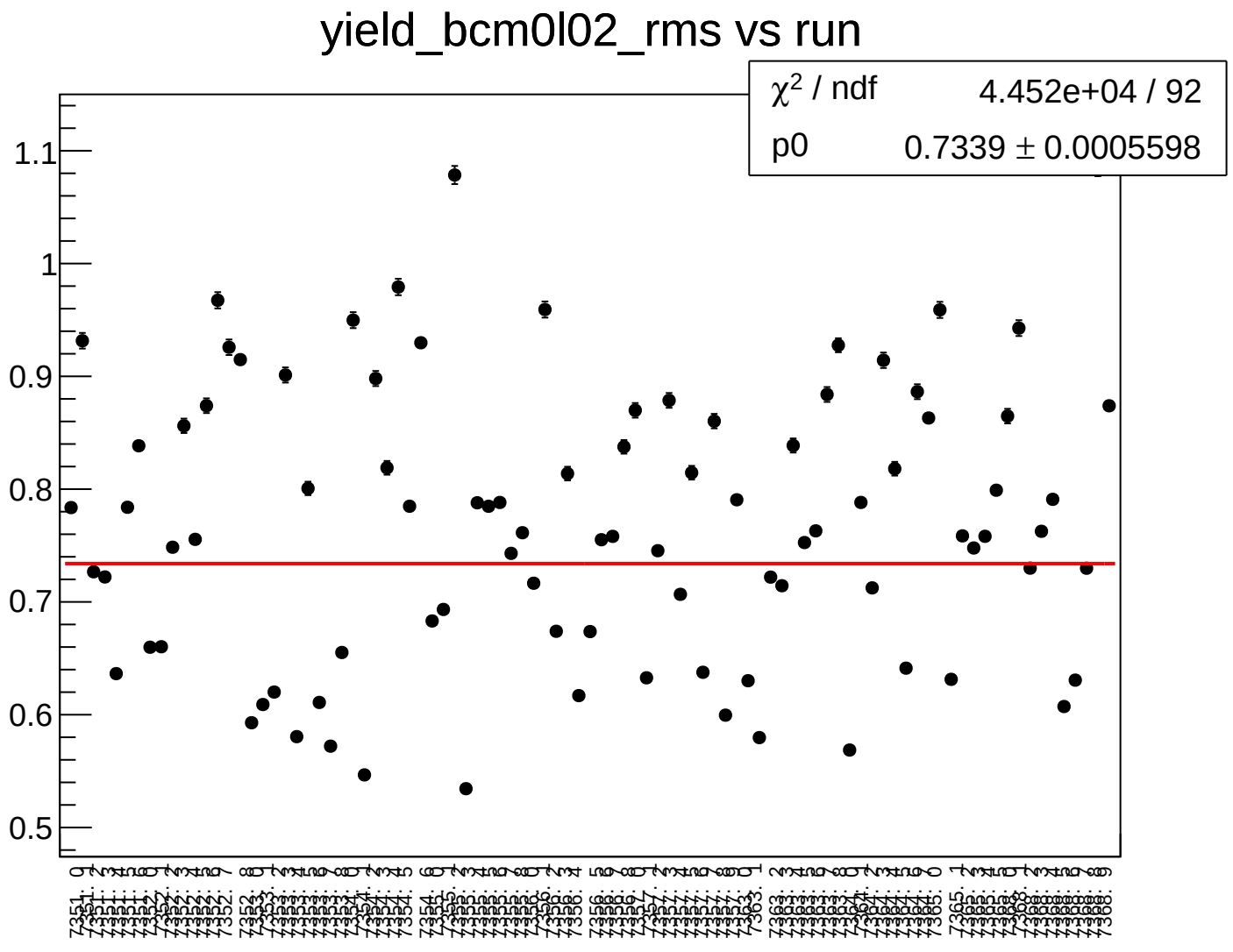

yield_cav4dQ_mean vs run
χ² / ndf 4.16e+05 / 92
p0 150.1± 0.0006454
151
150.5
150
149.5
149
pull
Entries 93
Mean −1170
Std Dev 1223
100
50
0
−50
−100
−150

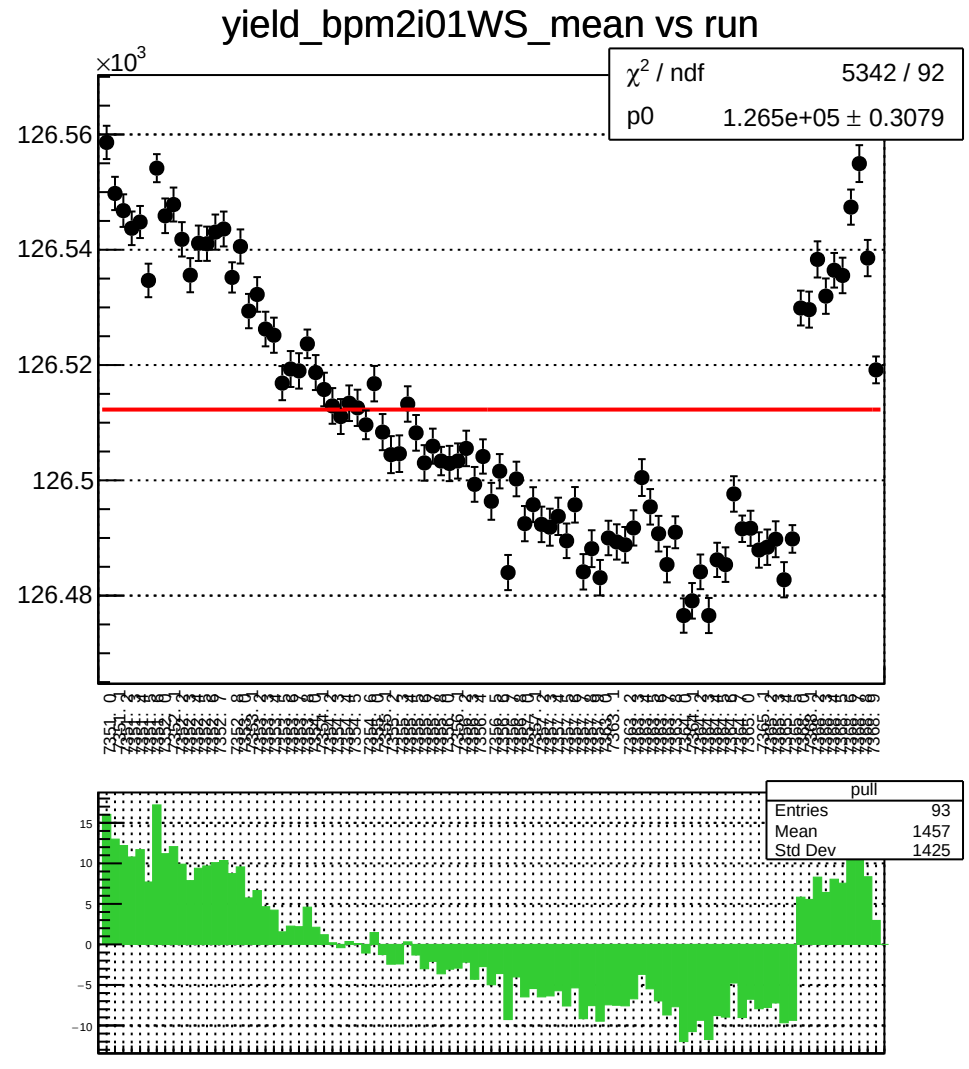

pull1D
Entries 93
Mean −1.409
Std Dev 5.526
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

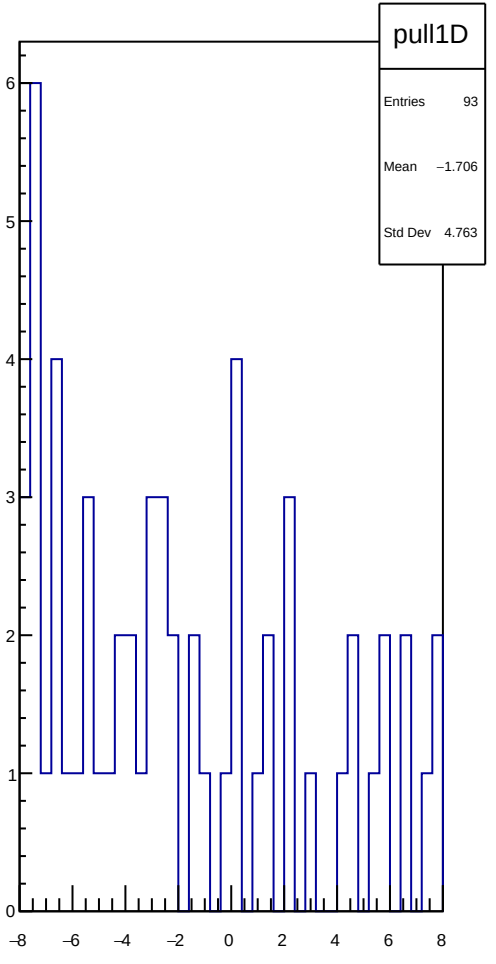

yield_cav4dQ_rms vs run
χ² / ndf 1.465e+04 / 92
p0 0.6036 ± 0.0004564
0.8
0.75
0.7
0.65
0.6
0.55
0.5

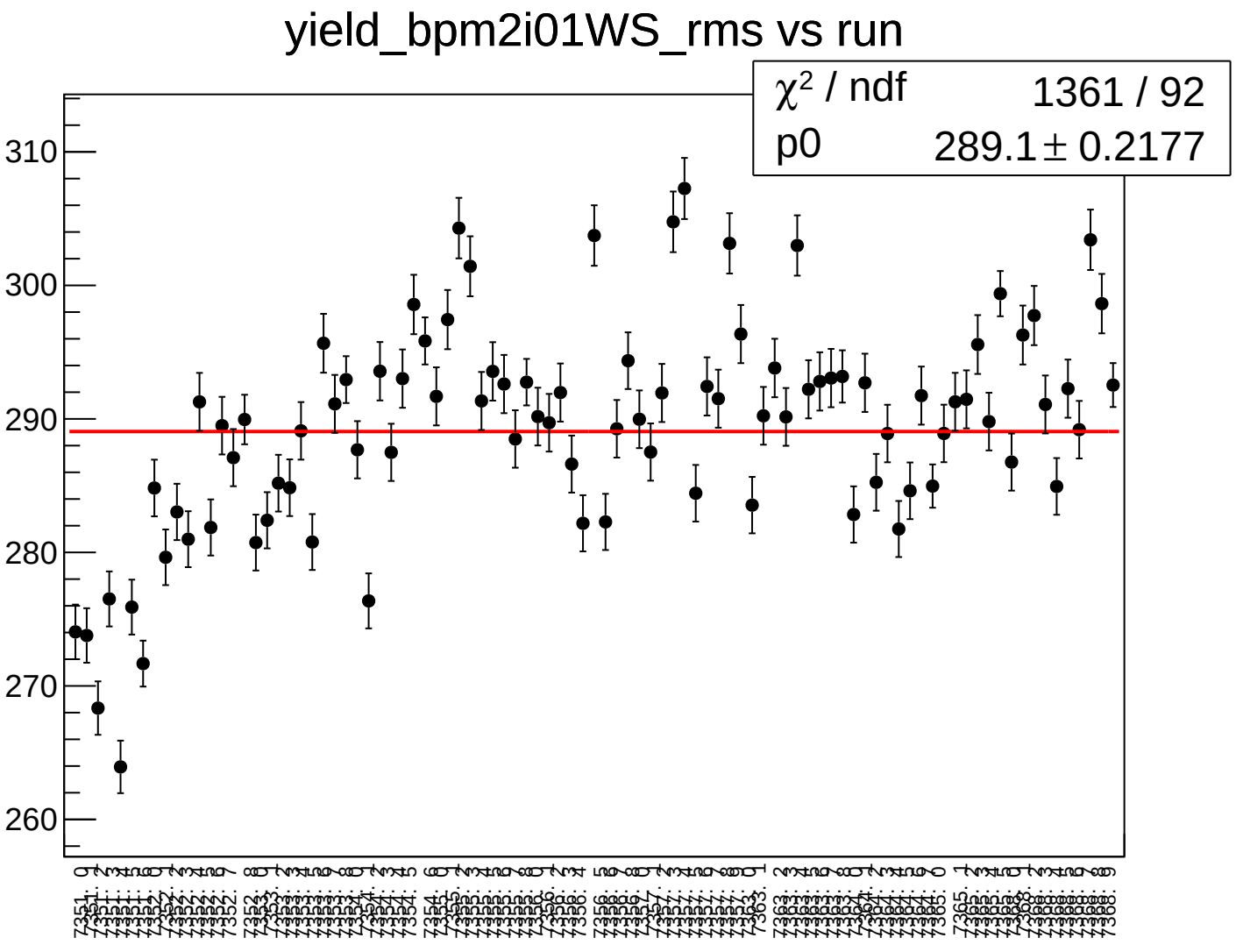

yield_bcm0l02_mean vs run
χ² / ndf 1.535e+06 / 92
p0 119.1± 0.0007917
122
121
120
119
118
117
pull
Entries 93
Mean −4394
Std Dev 4444
400
300
200
100
0
−100
−200

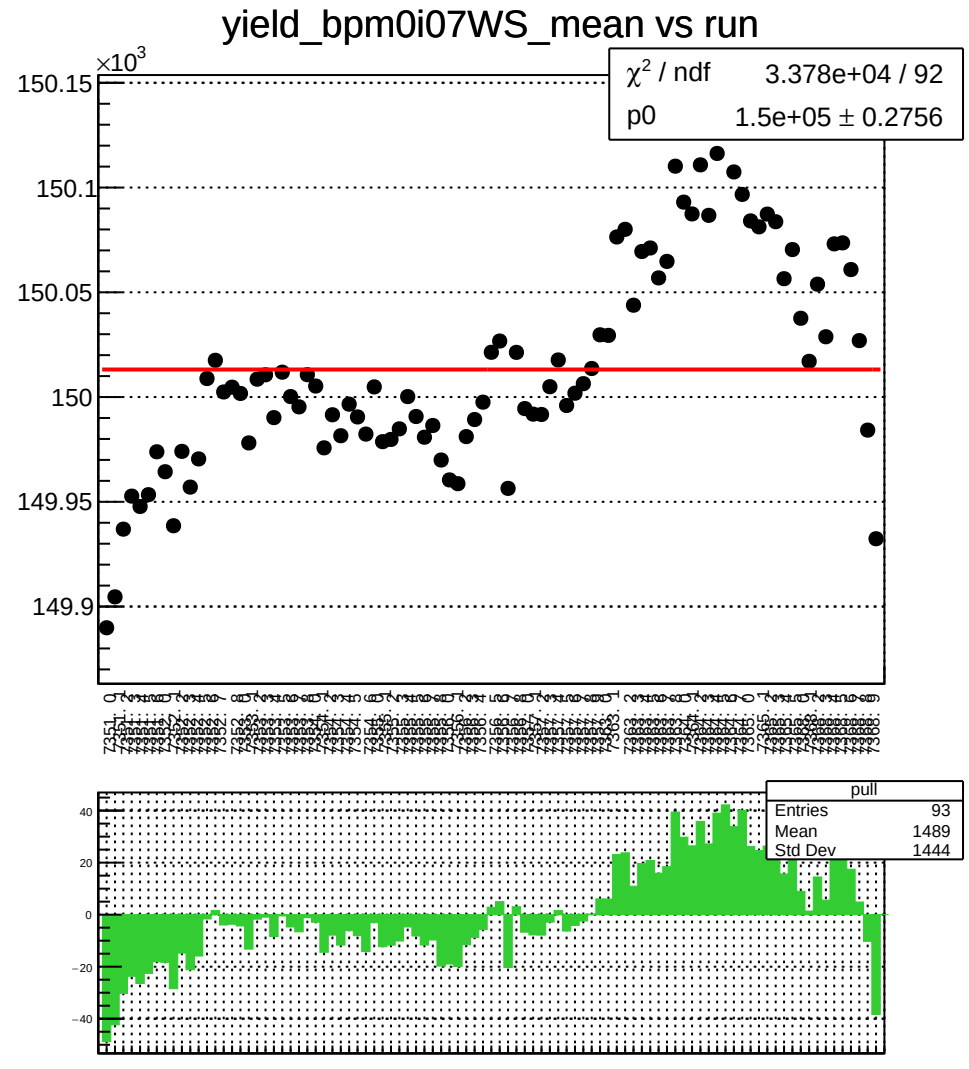

pull1D
Entries 93
Mean 1.567
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

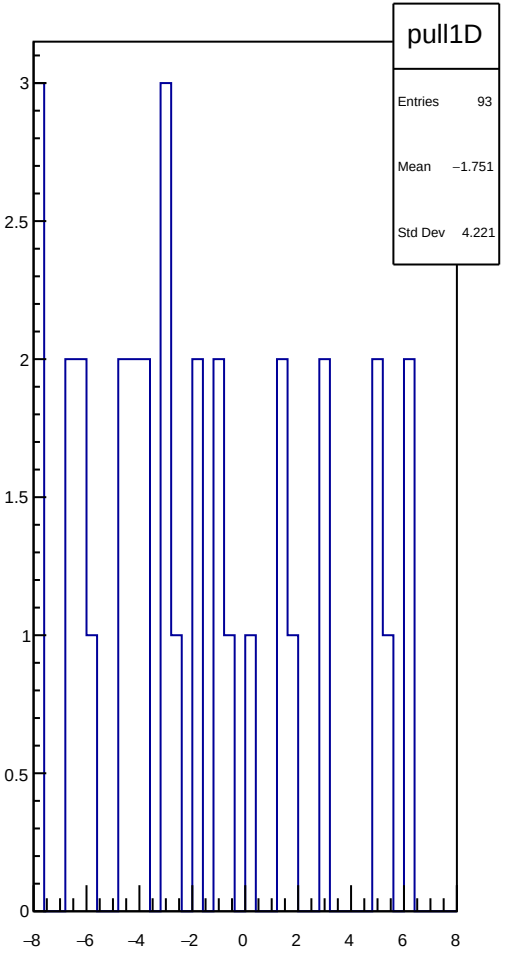

yield_bcm0l02_rms vs run
χ² / ndf 4.452e+04 / 92
p0 0.7339 ± 0.0005598
1.1
1
0.9
0.8
0.7
0.6
0.5

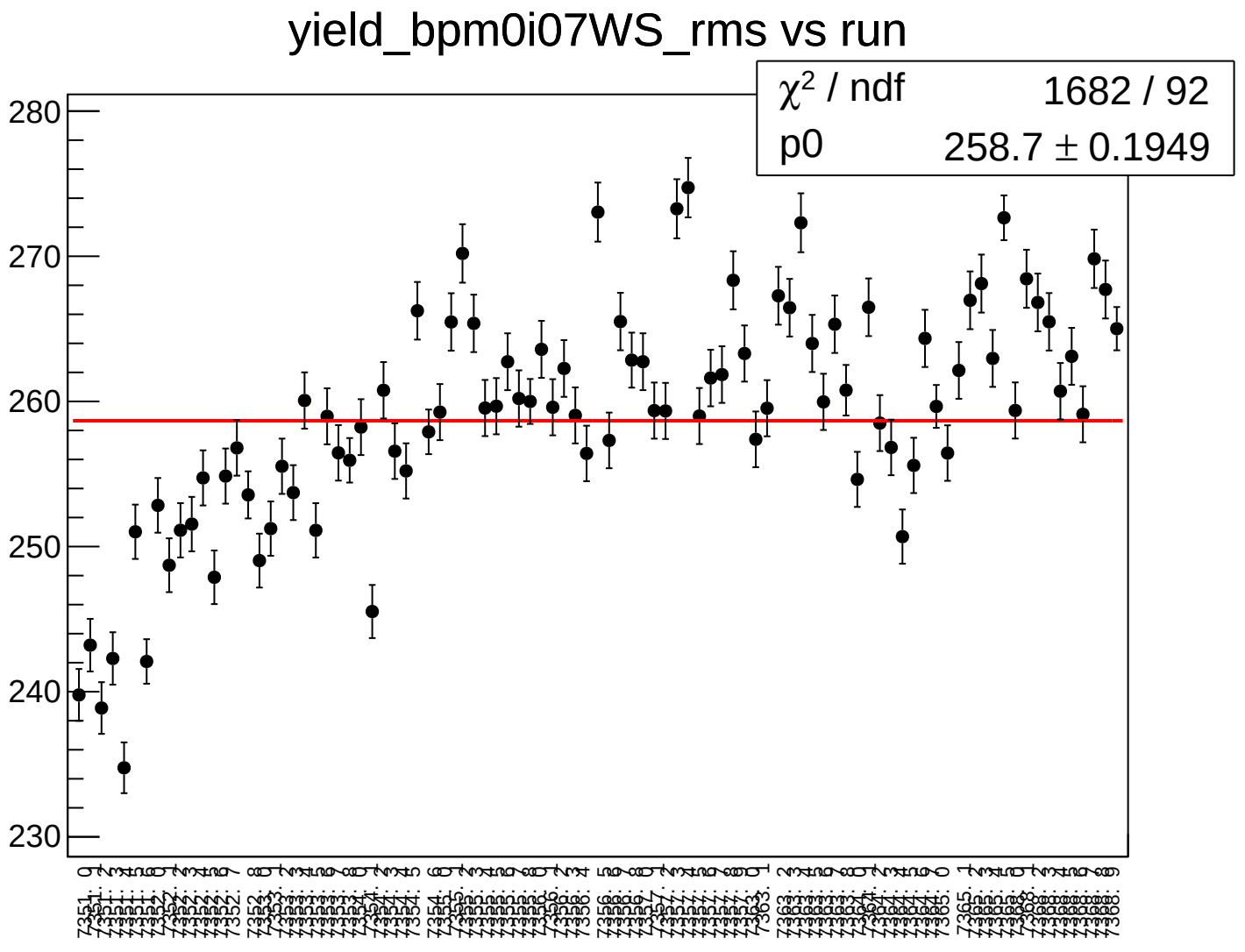

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 5342 / 92
p0 1.265e+05 ± 0.3079
126.56
126.54
126.52
126.5
126.48
pull
Entries 93
Mean 1457
Std Dev 1425
15
10
5
0
−5
−10

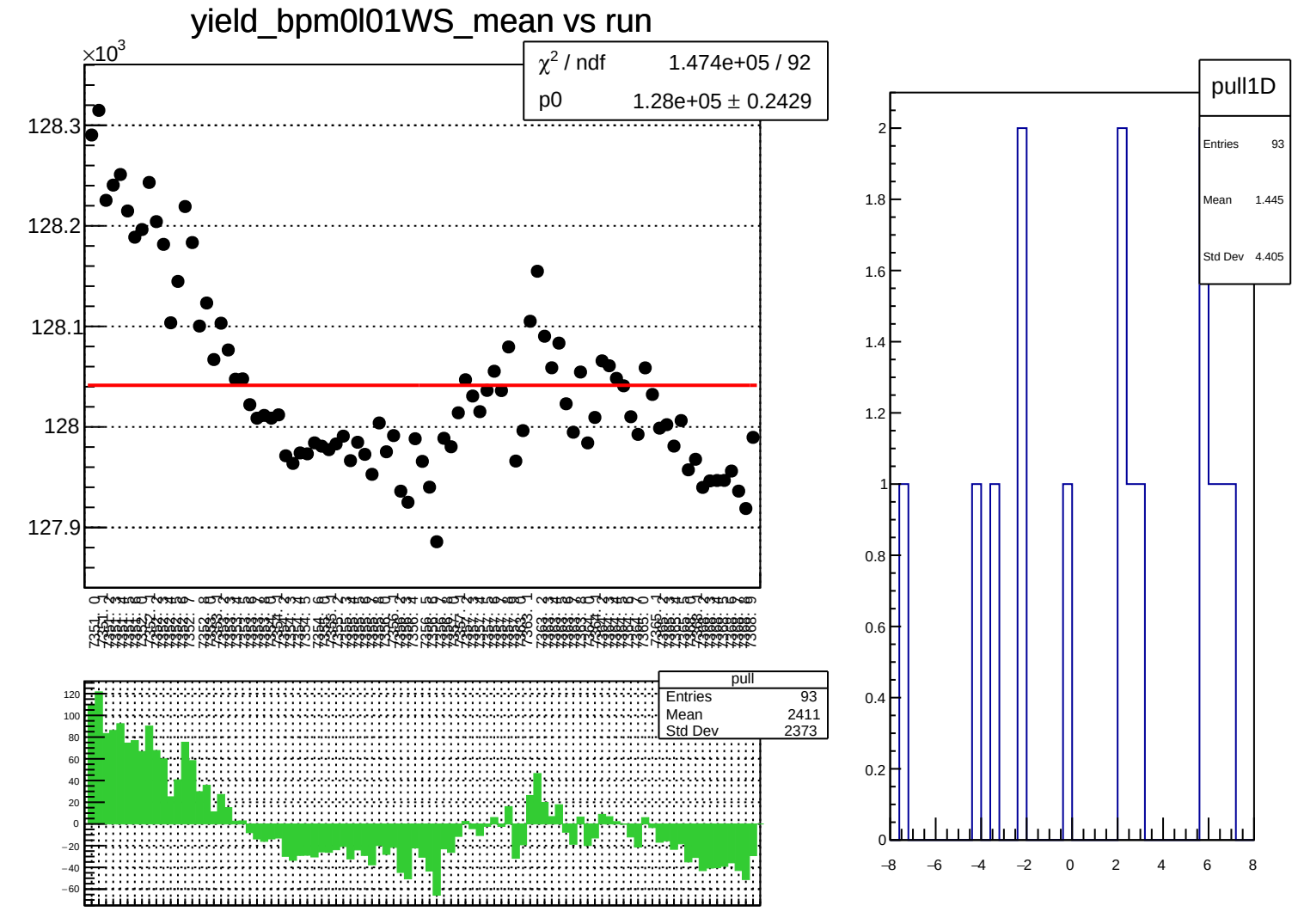

pull1D
Entries 93
Mean −1.706
Std Dev 4.763
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

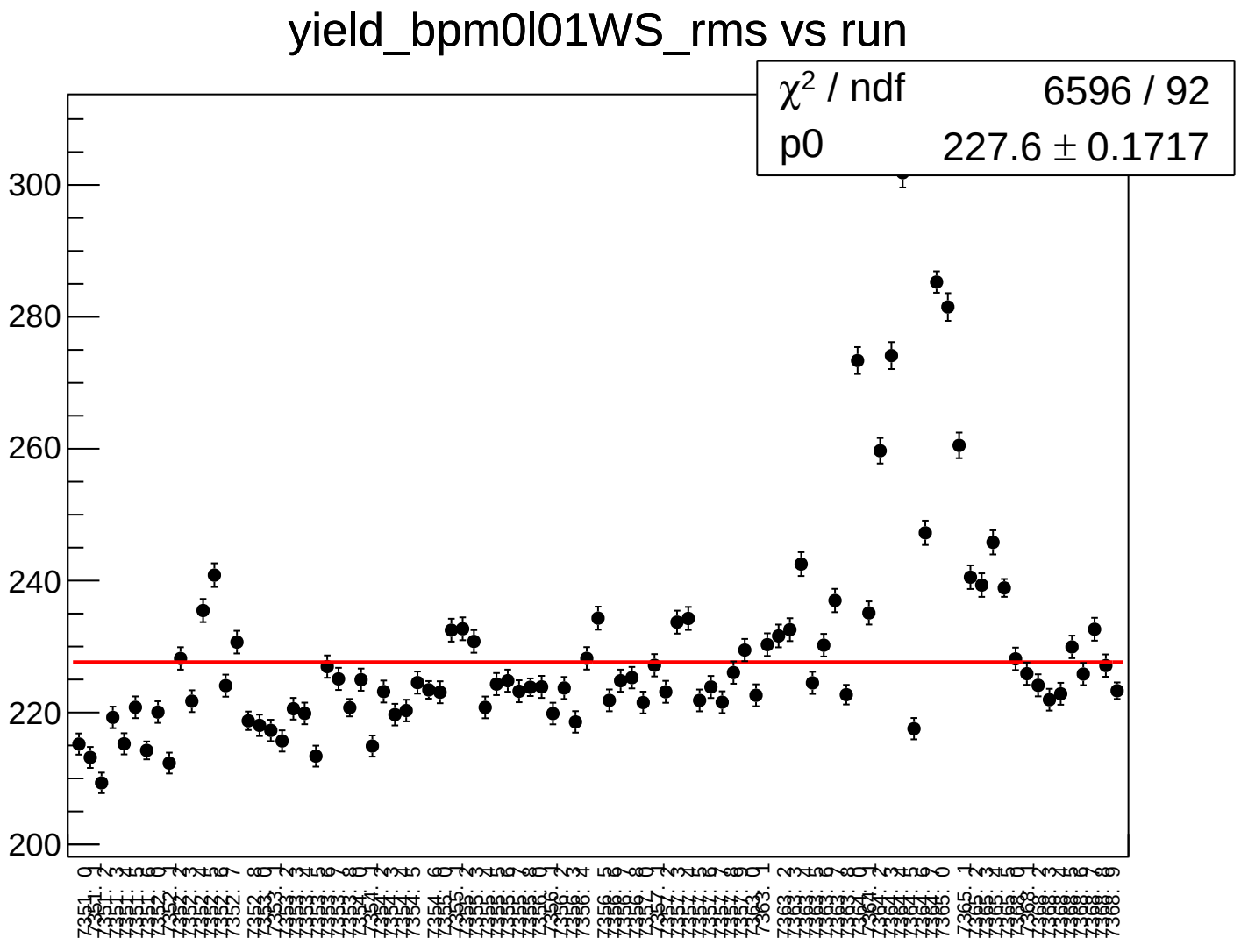

yield_bpm2i01WS_rms vs run
χ² / ndf 1361 / 92
p0 289.1 ± 0.2177
310
300
290
280
270
260

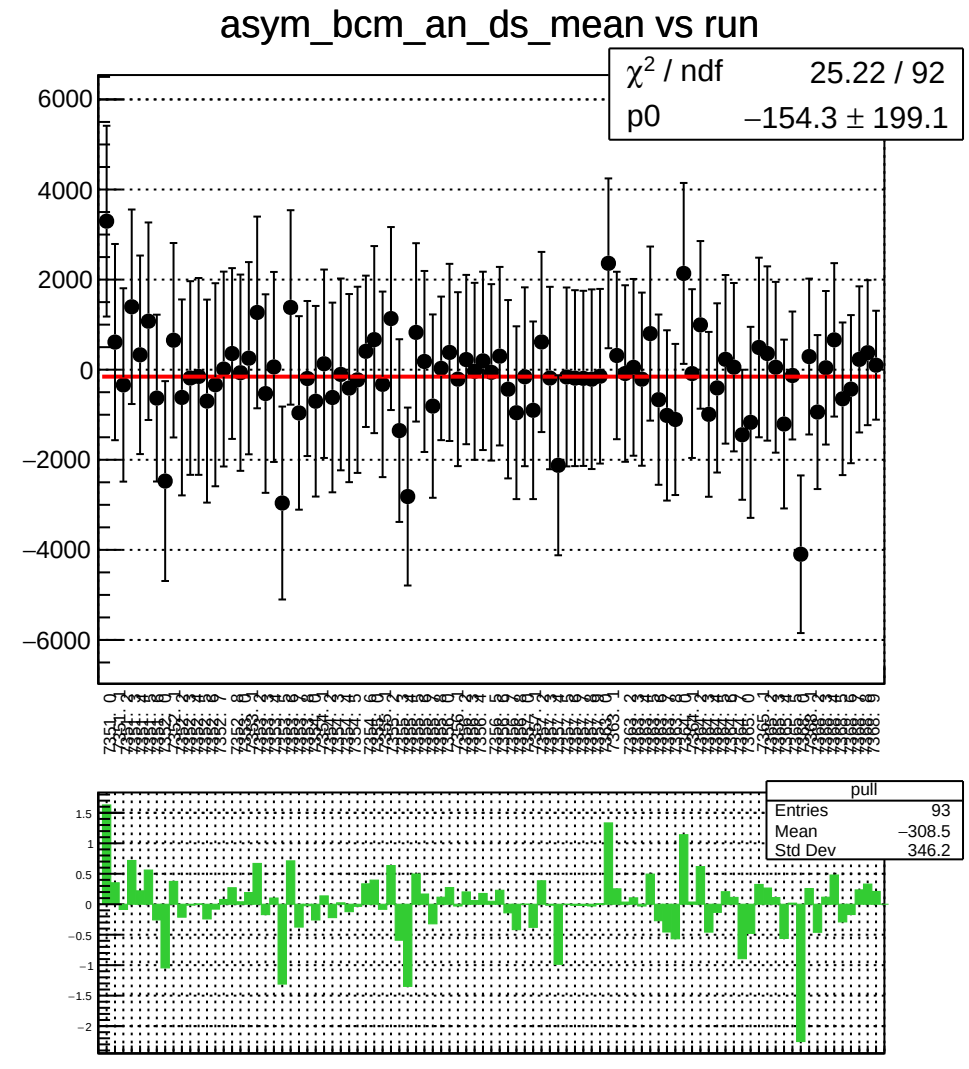

yield_bpm0i07WS_mean vs run
×10^3
150.15
150.1
150.05
150
149.95
149.9
χ² / ndf 3.378e+04 / 92
p0 1.5e+05 ± 0.2756
pull
Entries 93
Mean 1489
Std Dev 1444
40
20
0
−20
−40

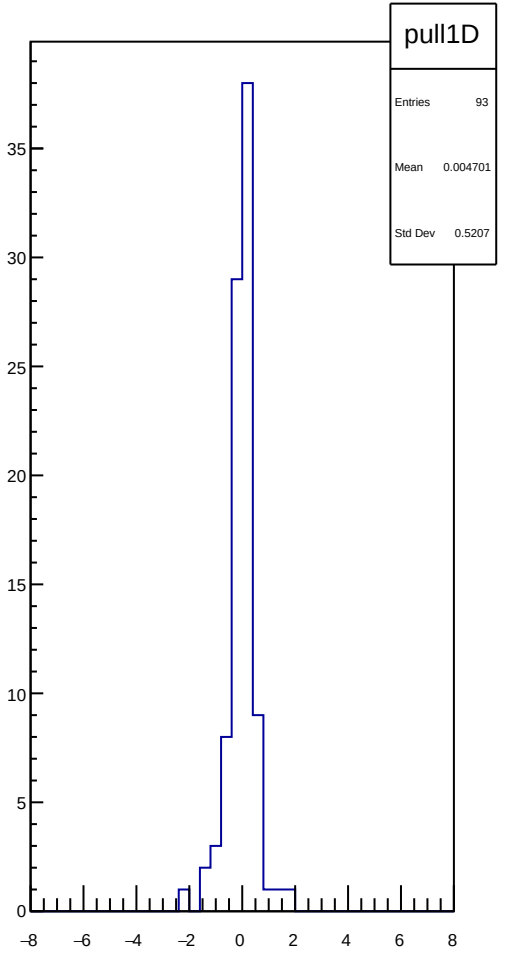

pull1D
Entries 93
Mean −1.751
Std Dev 4.221
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

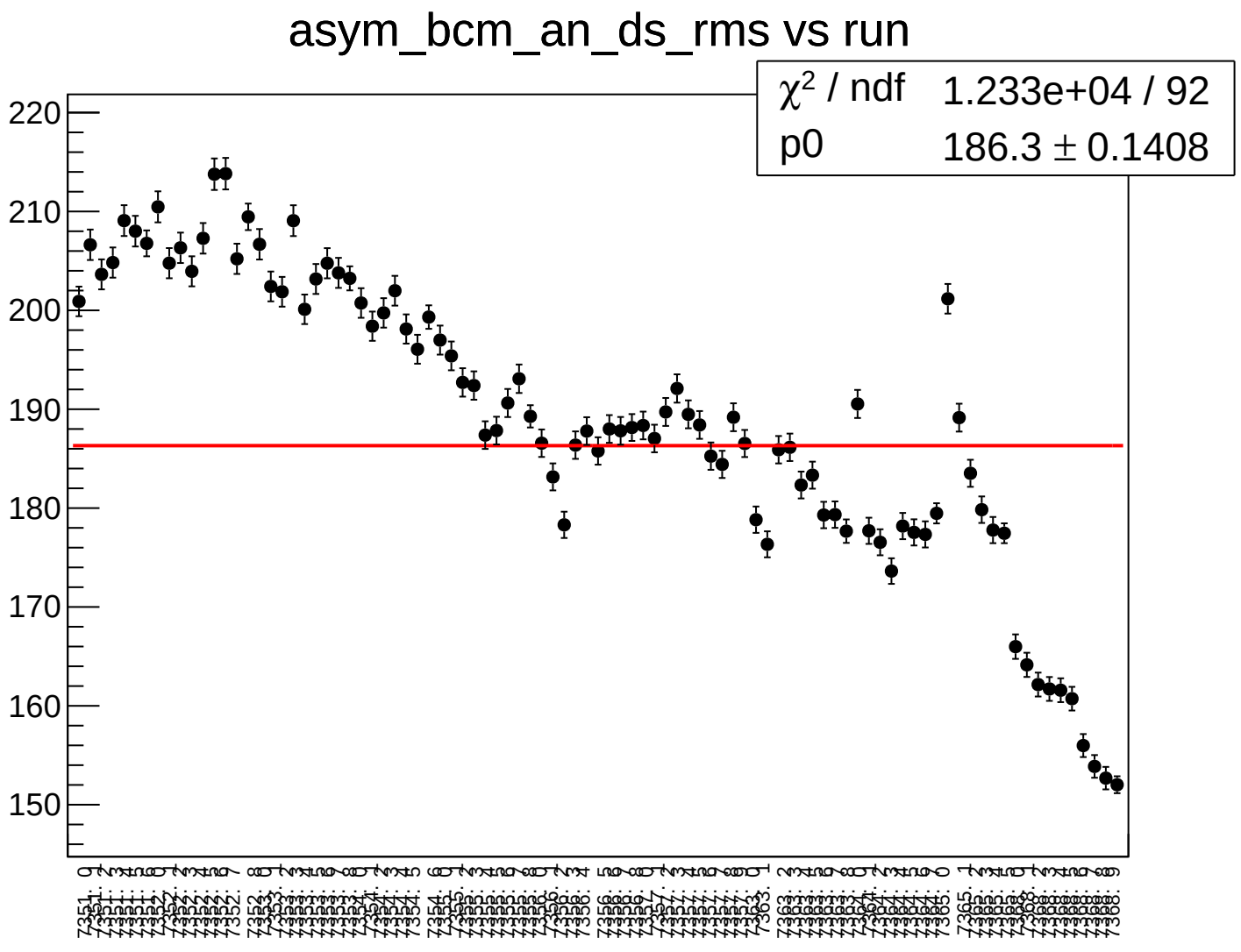

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1682 / 92
p0 258.7 ± 0.1949
280
270
260
250
240
230

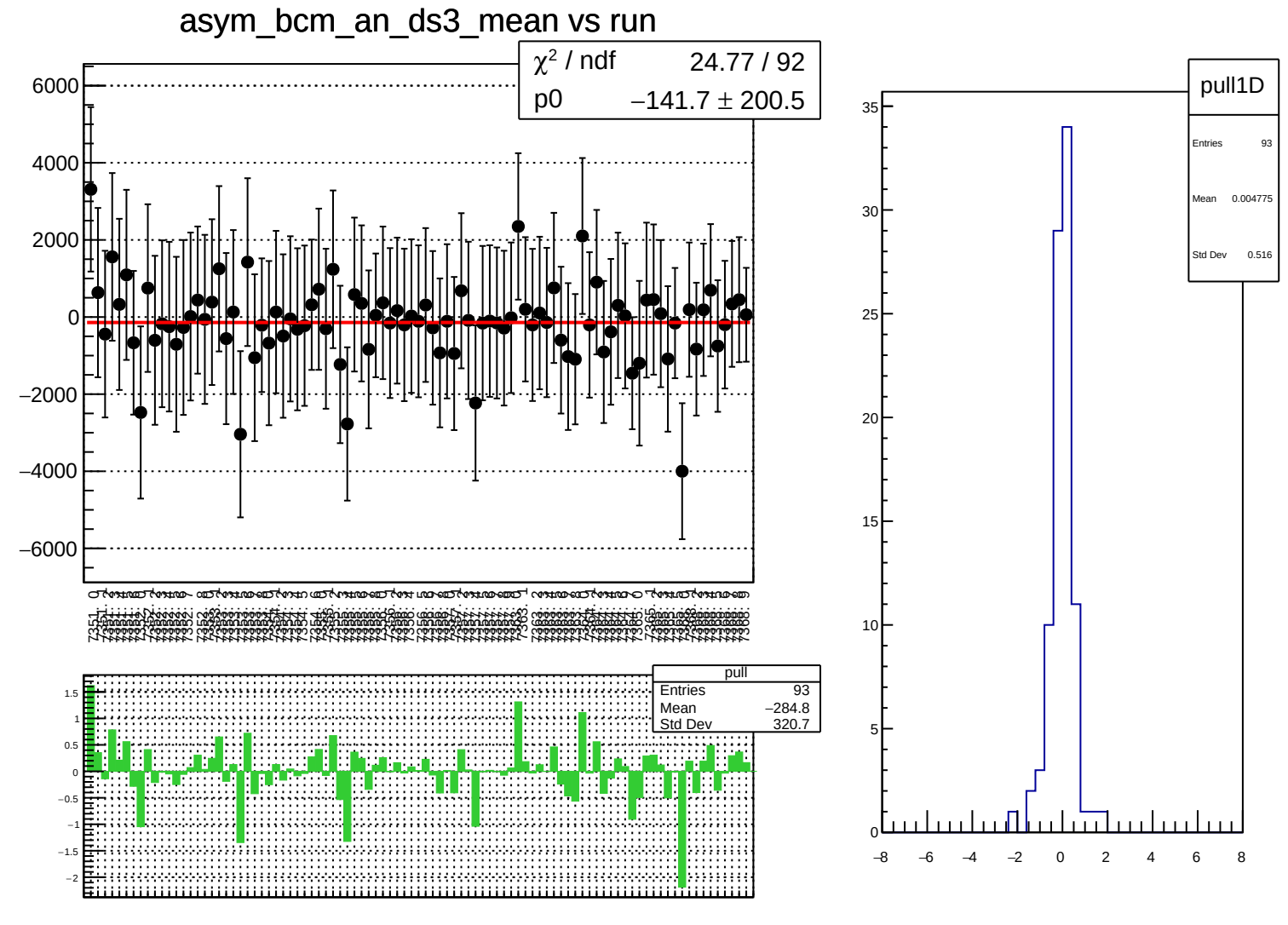

yield_bpm0l01WS_mean vs run
χ² / ndf 1.474e+05 / 92
p0 1.28e+05 ± 0.2429
×10³
128.3
128.2
128.1
128
127.9
pull
Entries 93
Mean 2411
Std Dev 2373
pull1D
Entries 93
Mean 1.445
Std Dev 4.405

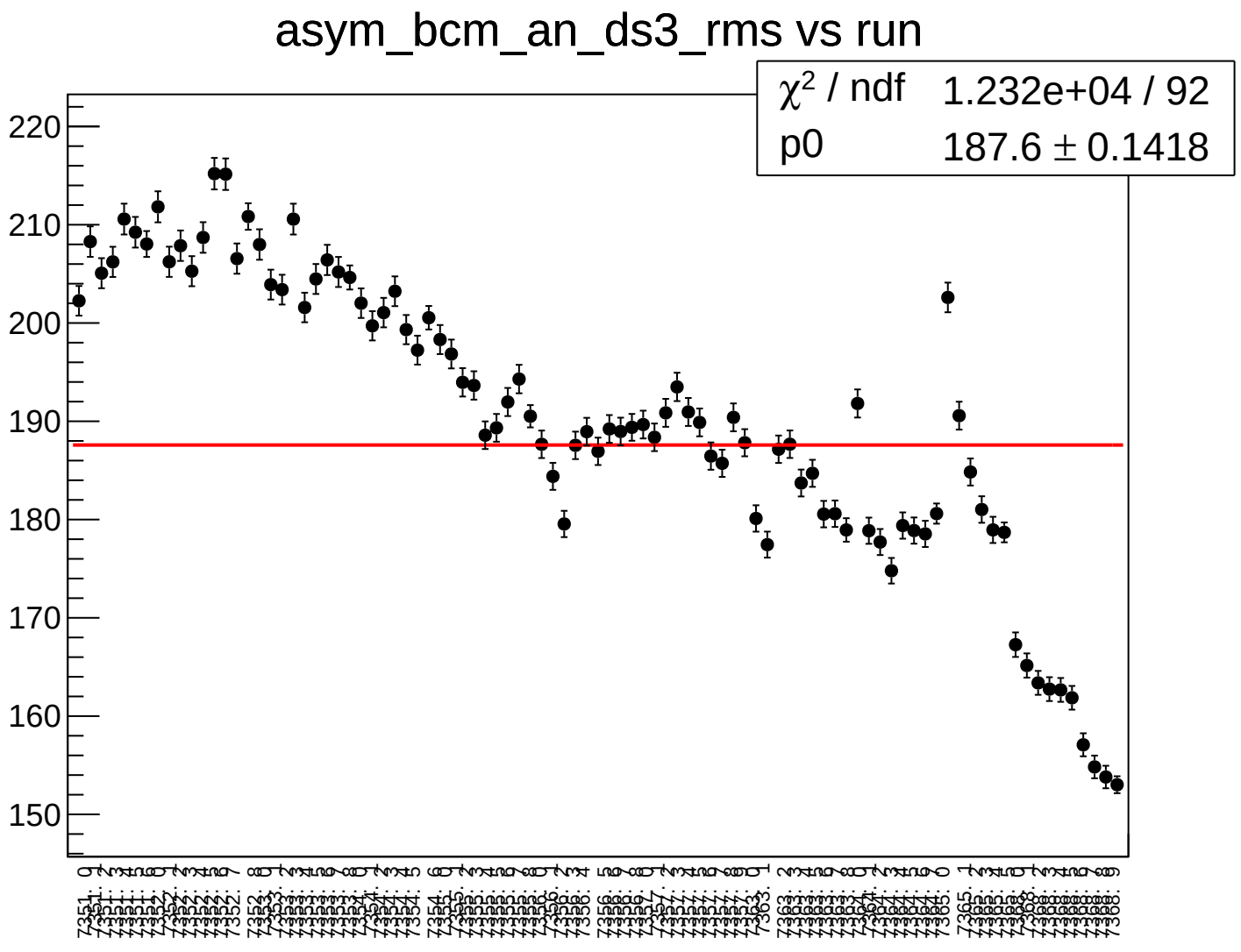

yield_bpm0l01WS_rms vs run
χ² / ndf 6596 / 92
p0 227.6 ± 0.1717
300
280
260
240
220
200

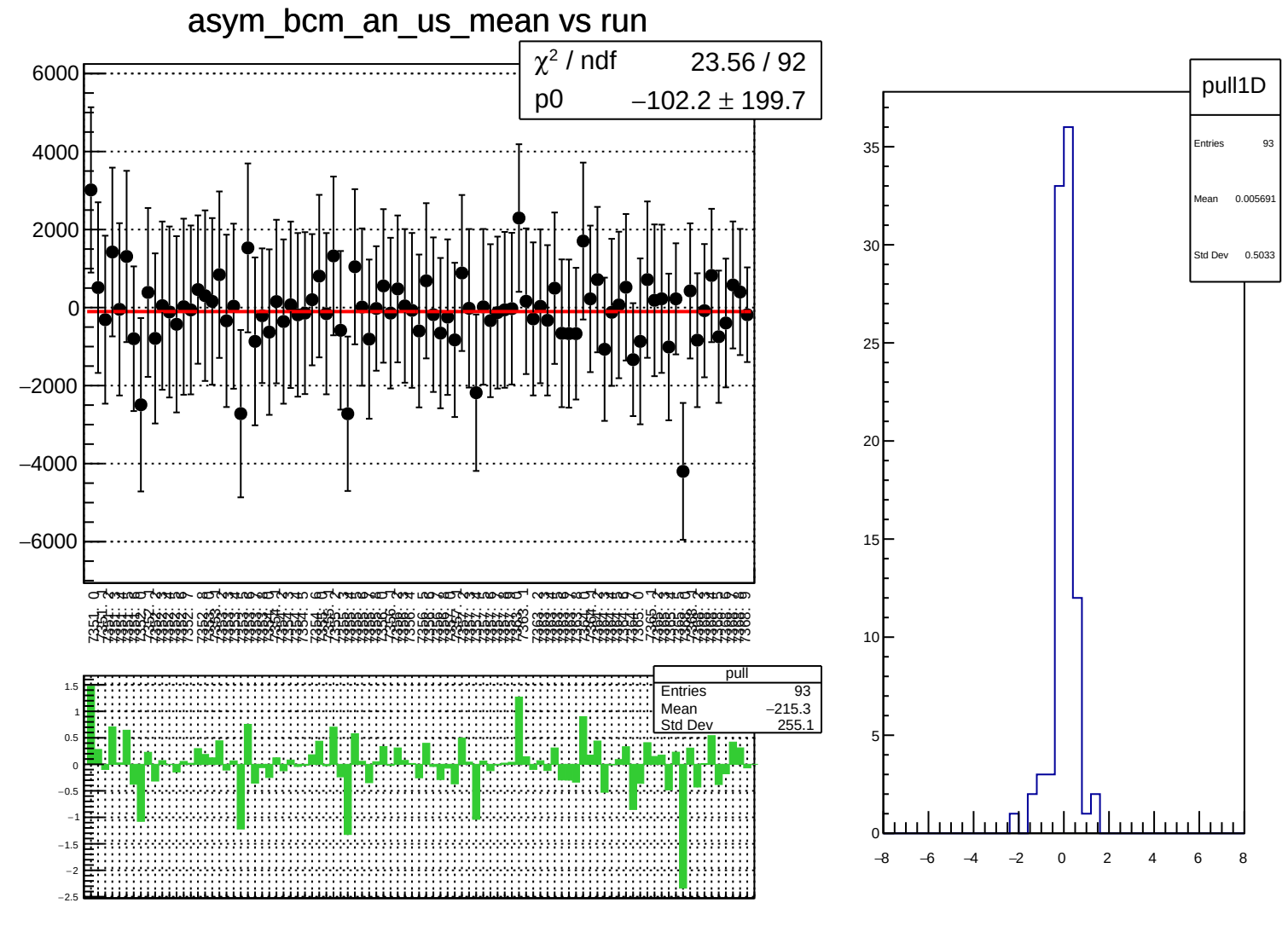

asym_bcm_an_ds_mean vs run
χ² / ndf 25.22 / 92
p0 −154.3 ± 199.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −308.5
Std Dev 346.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

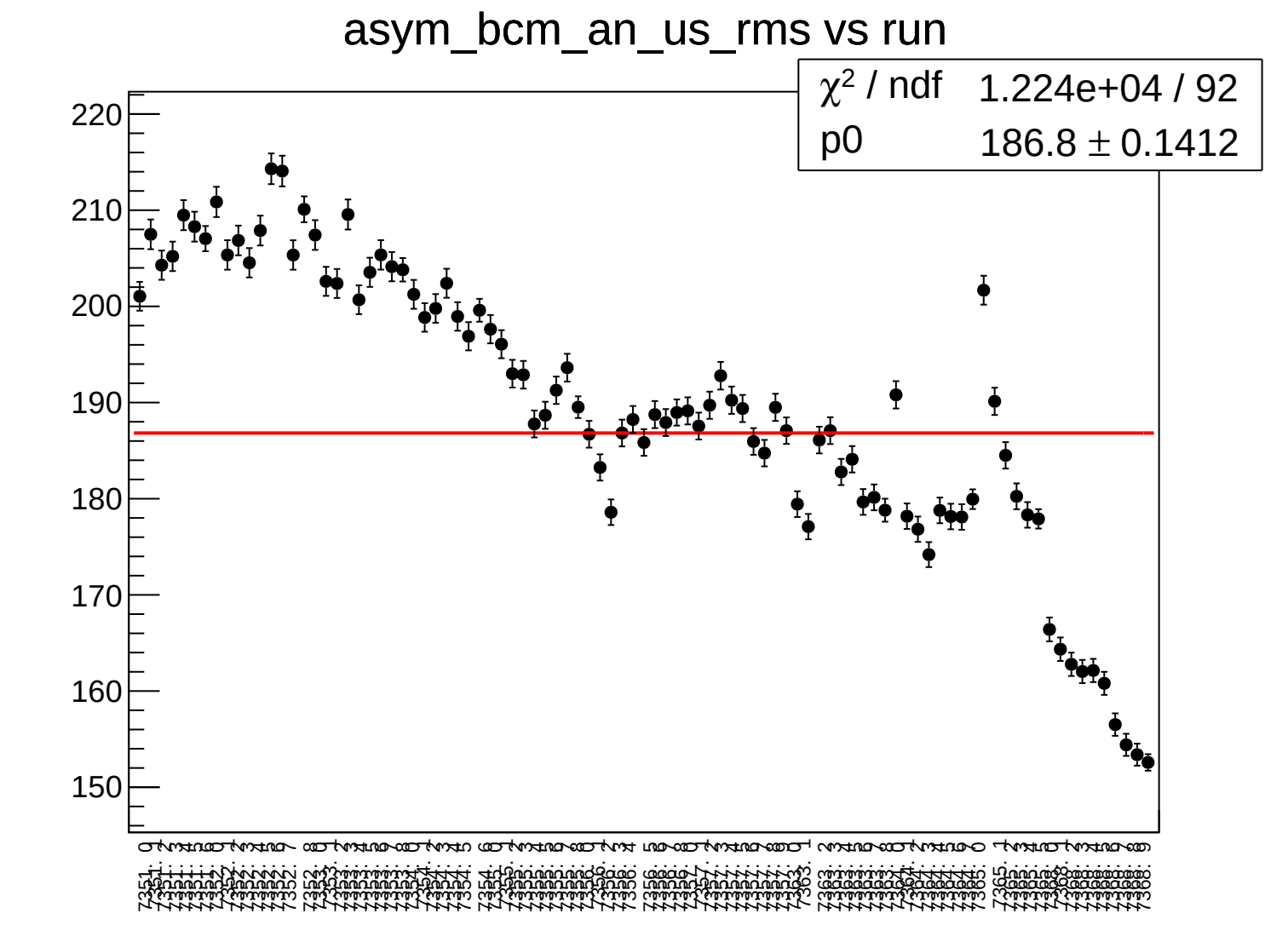

pull1D
Entries 93
Mean 0.004701
Std Dev 0.5207
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

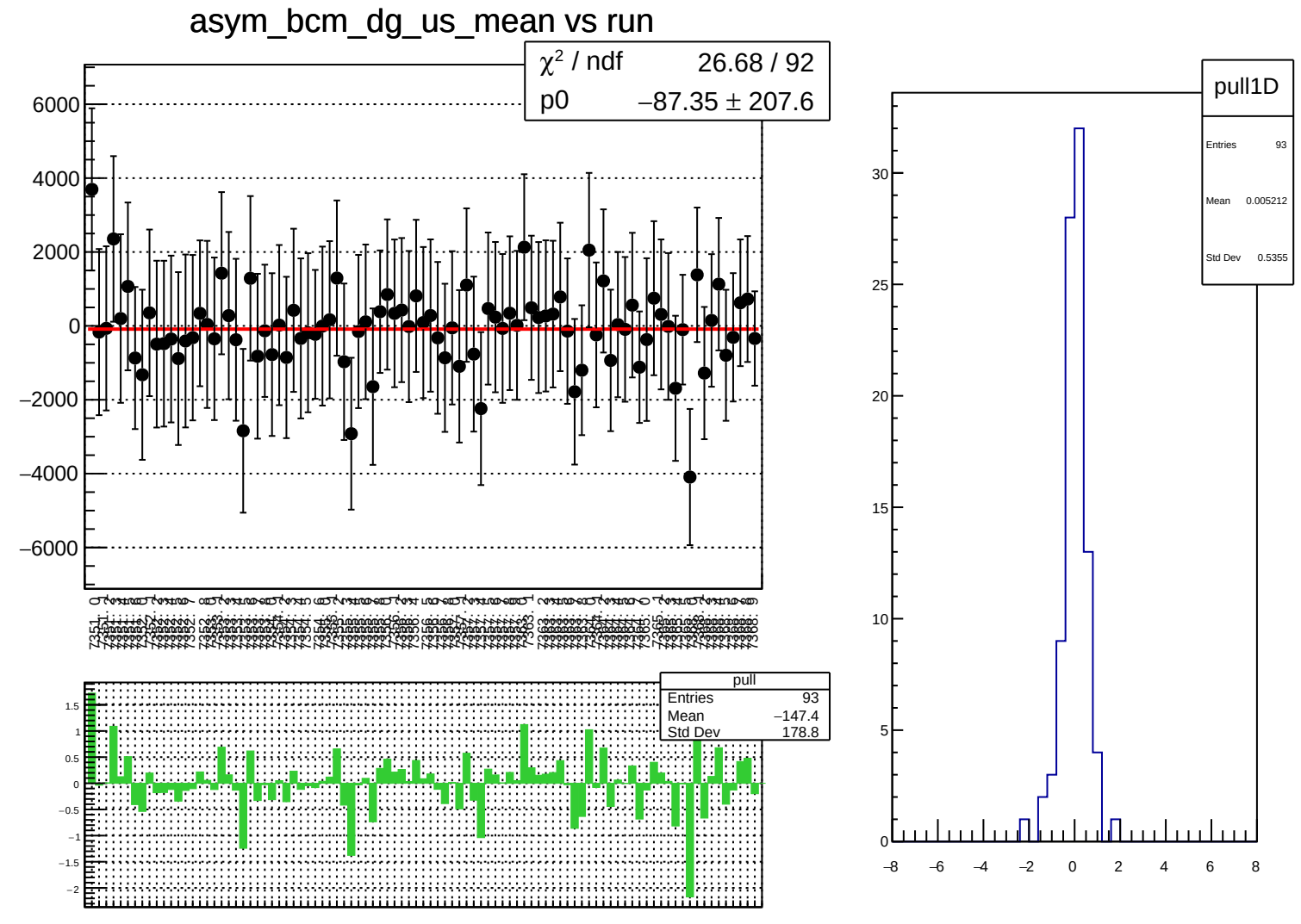

asym_bcm_an_ds_rms vs run
χ^2 / ndf 1.233e+04 / 92
p0 186.3 ± 0.1408
220
210
200
190
180
170
160
150

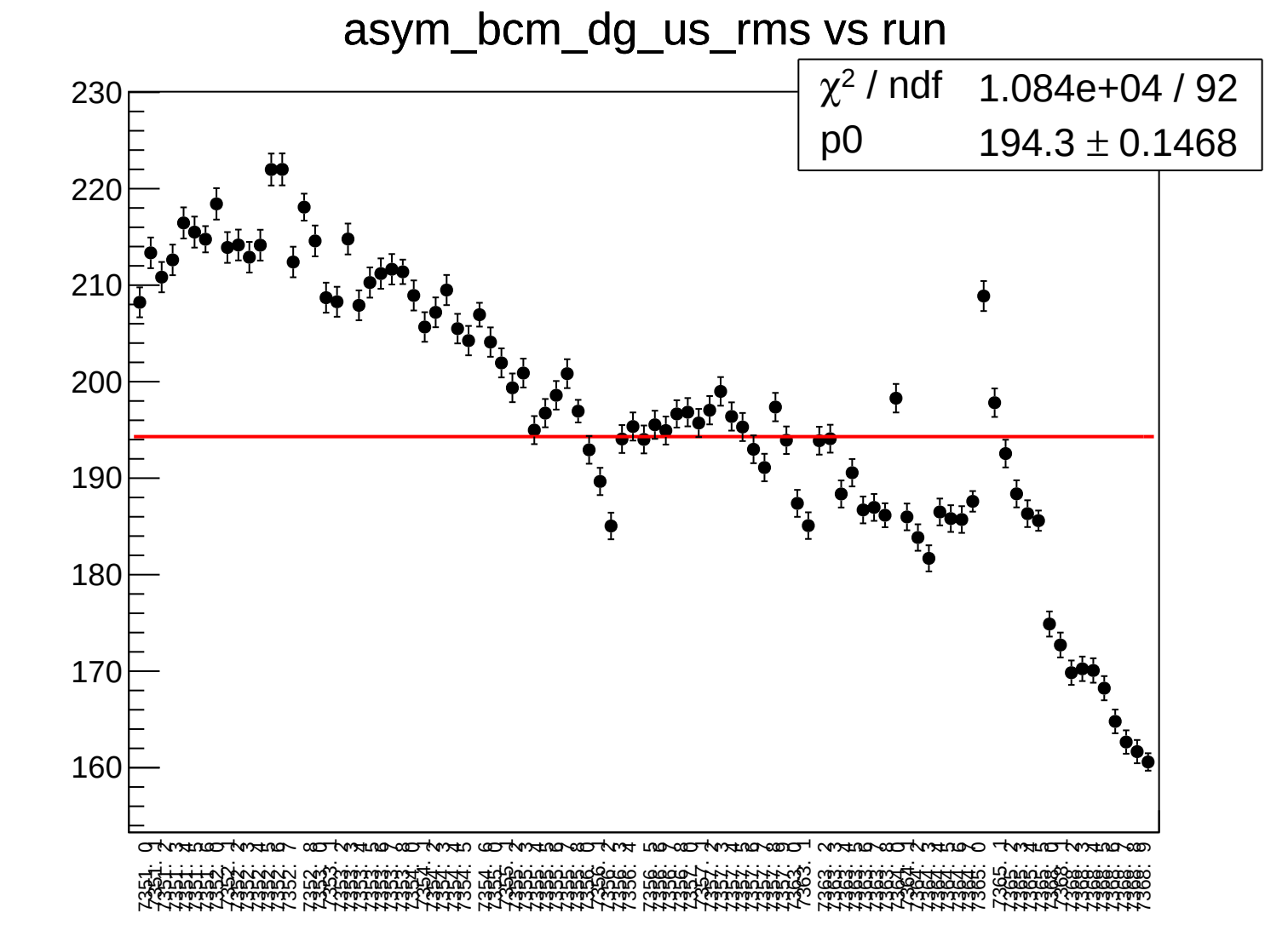

asym_bcm_an_ds3_mean vs run
χ² / ndf 24.77 / 92
p0 −141.7 ± 200.5
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −284.8
Std Dev 320.7
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.004775
Std Dev 0.516
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

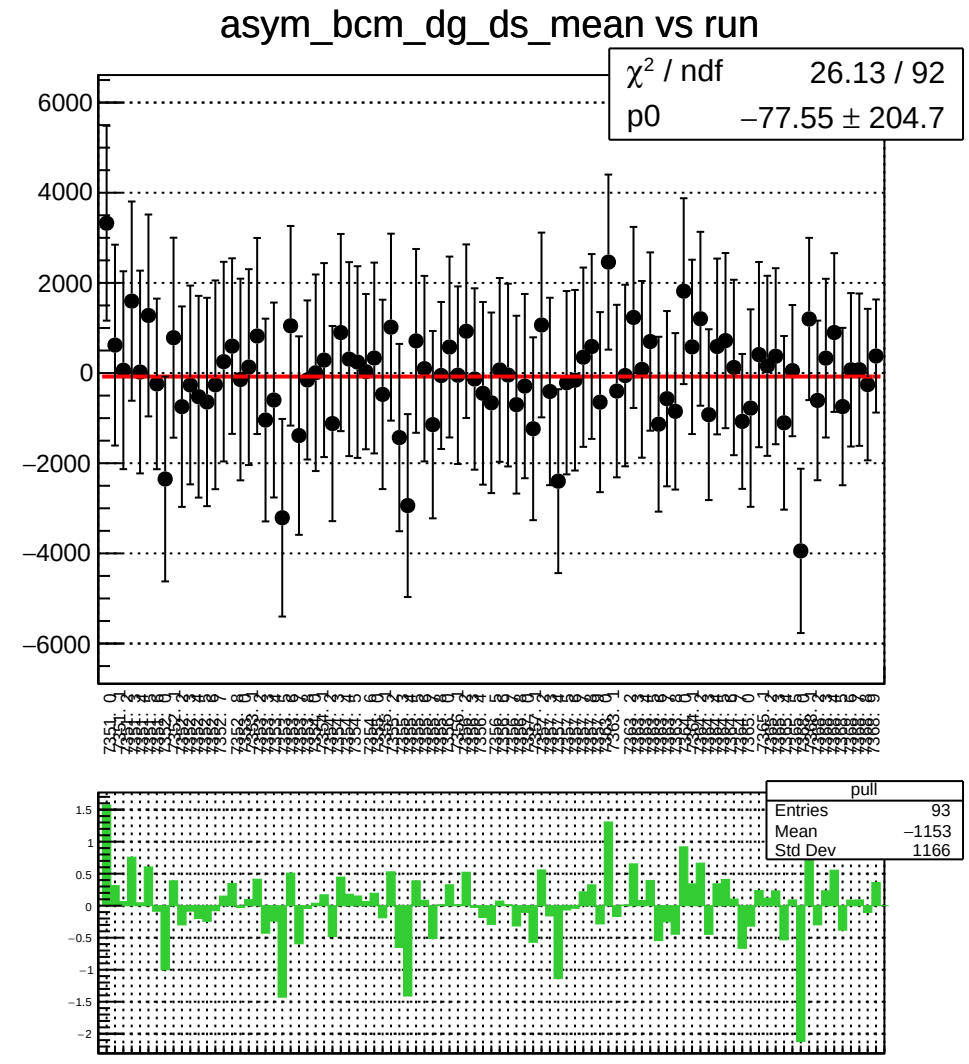

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 1.232e+04 / 92
p0 187.6 ± 0.1418
220
210
200
190
180
170
160
150

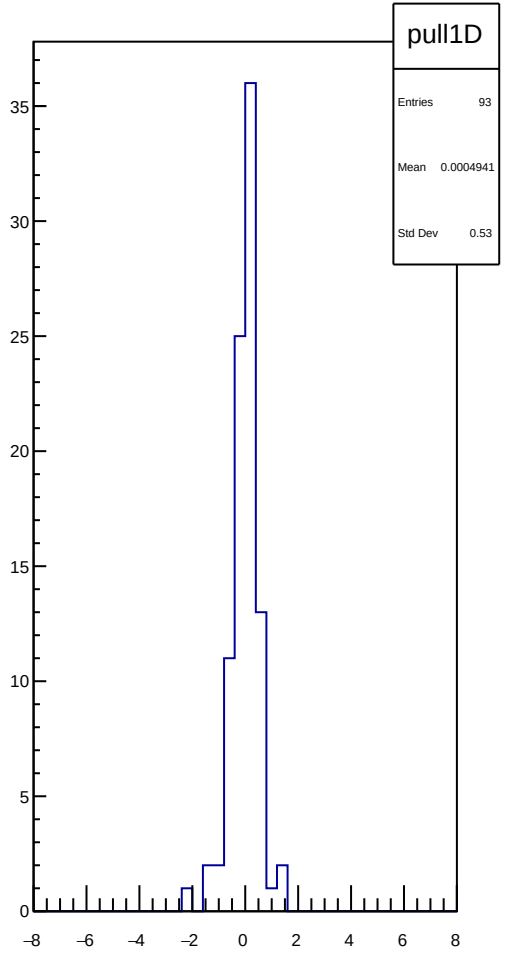

asym_bcm_an_us_mean vs run
χ² / ndf 23.56 / 92
p0 −102.2 ± 199.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −215.3
Std Dev 255.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.005691
Std Dev 0.5033
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

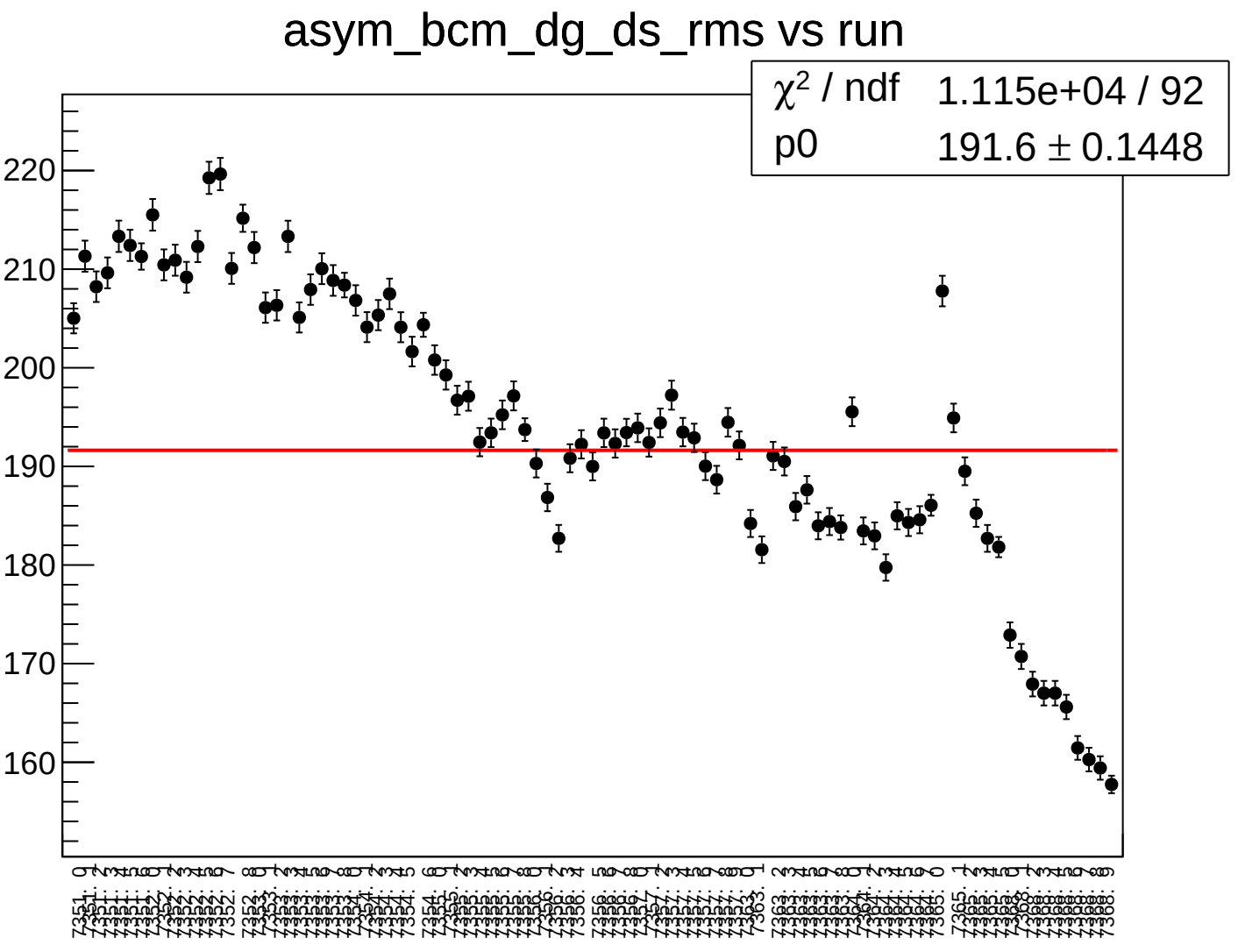

asym_bcm_an_us_rms vs run
χ^2 / ndf 1.224e+04 / 92
p0 186.8 ± 0.1412
220
210
200
190
180
170
160
150

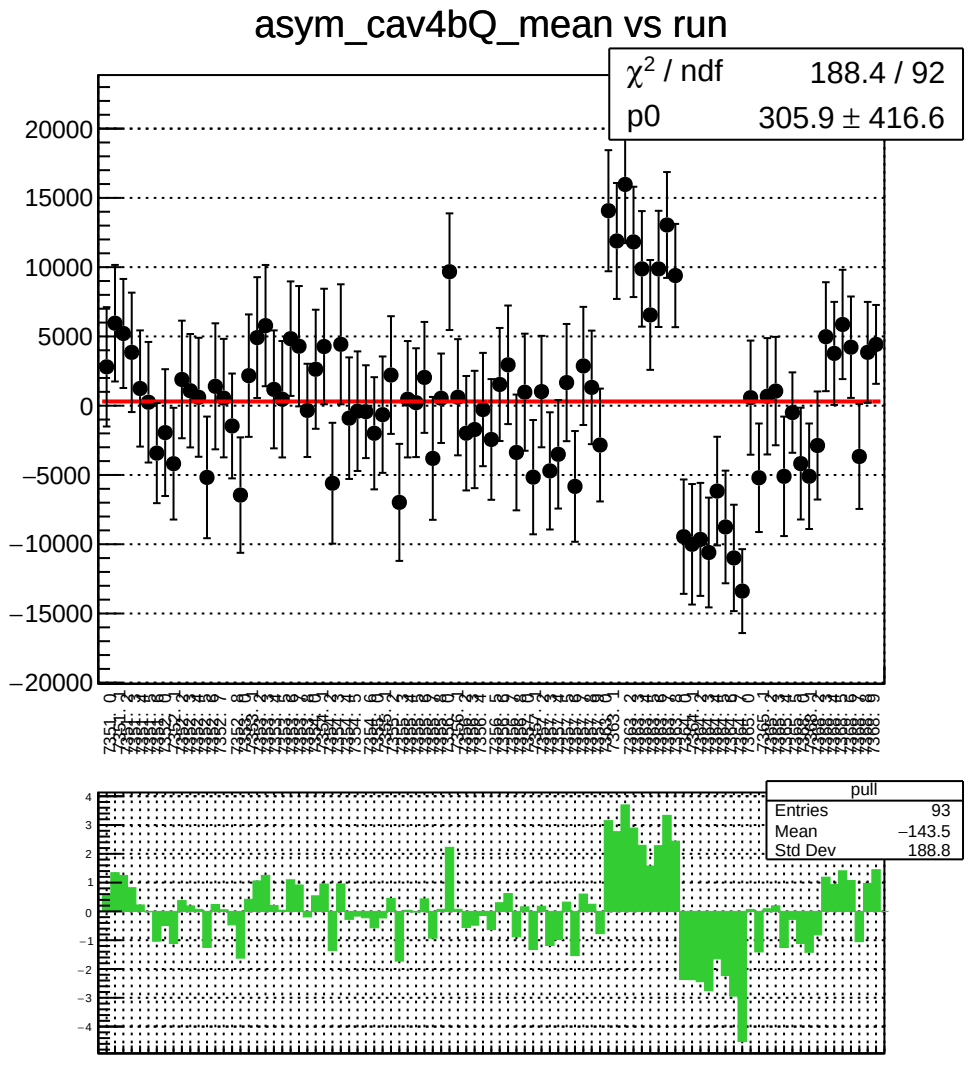

asym_bcm_dg_us_mean vs run
χ² / ndf 26.68 / 92
p0 −87.35 ± 207.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −147.4
Std Dev 178.8
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.005212
Std Dev 0.5355
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

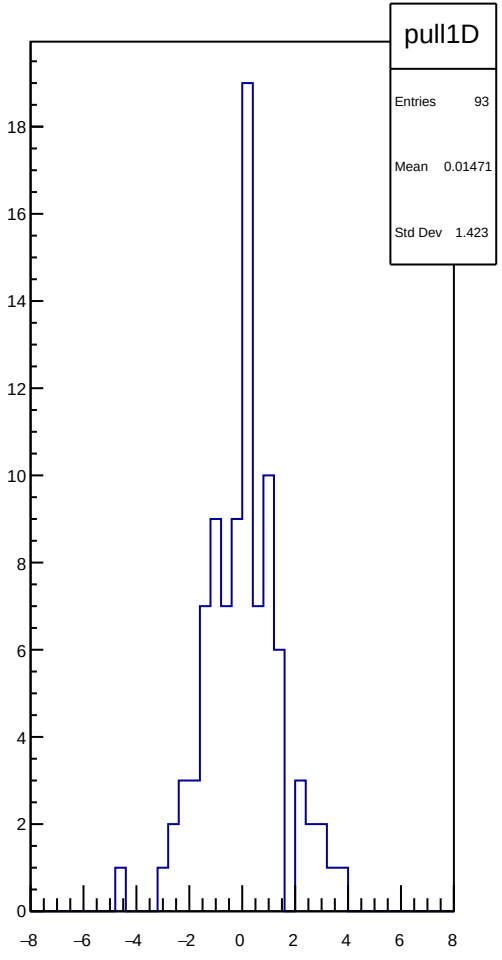

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1.084e+04 / 92
p0 194.3 ± 0.1468
230
220
210
200
190
180
170
160

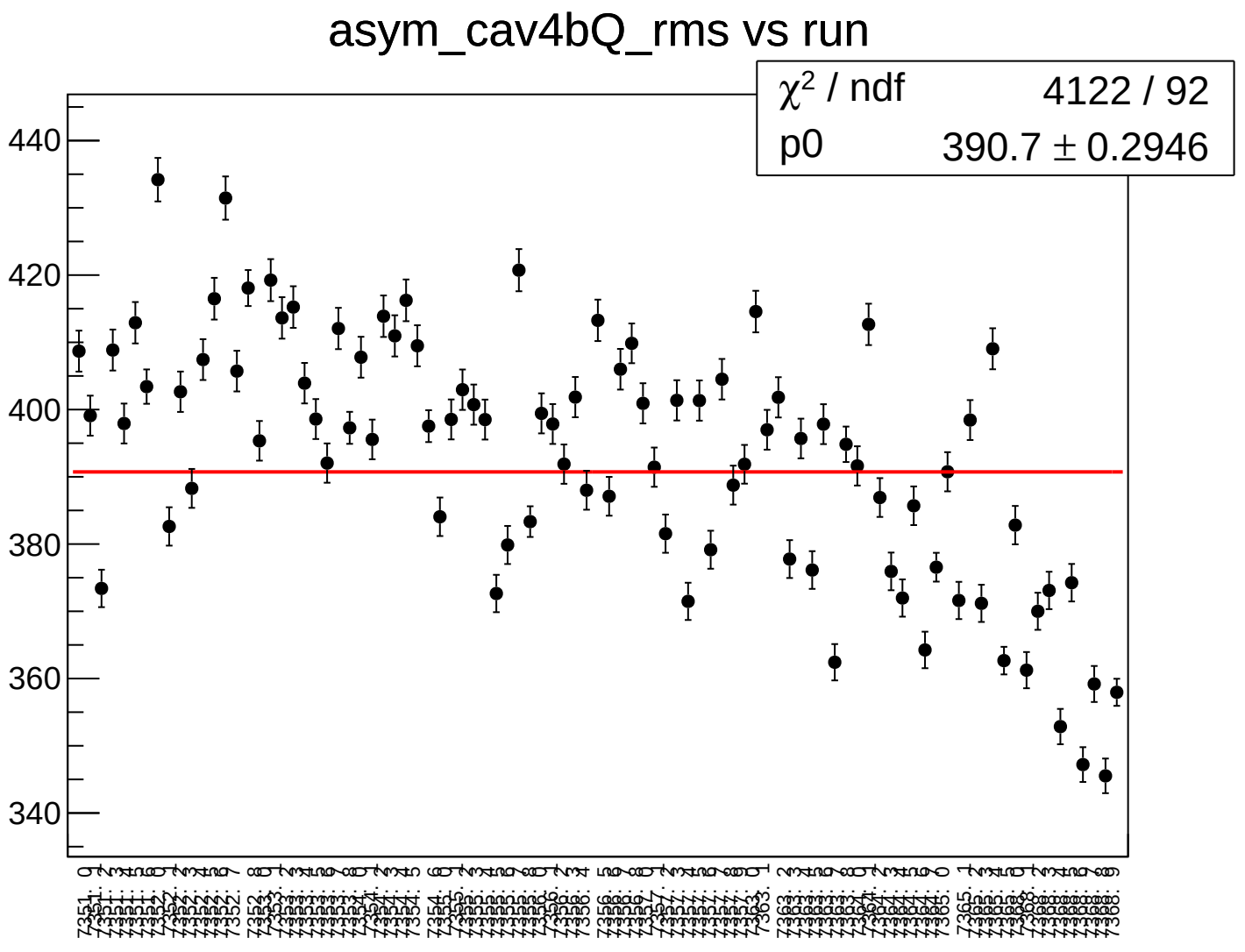

asym_bcm_dg_ds_mean vs run
χ² / ndf 26.13 / 92
p0 −77.55 ± 204.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −1153
Std Dev 1166
1.5
1
0.5
0
−0.5
−1
−1.5
−2

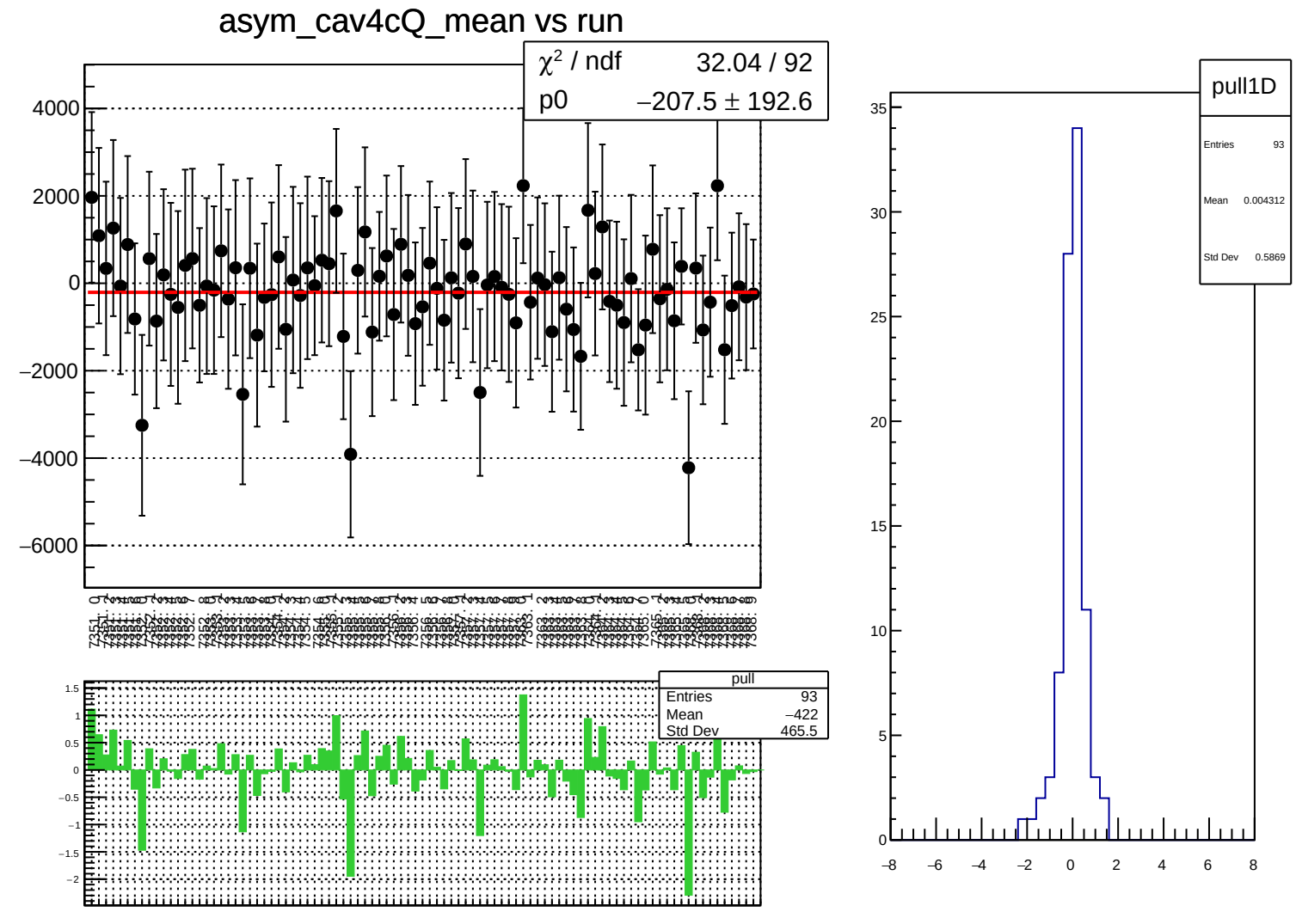

pull1D
Entries 93
Mean 0.0004941
Std Dev 0.53
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

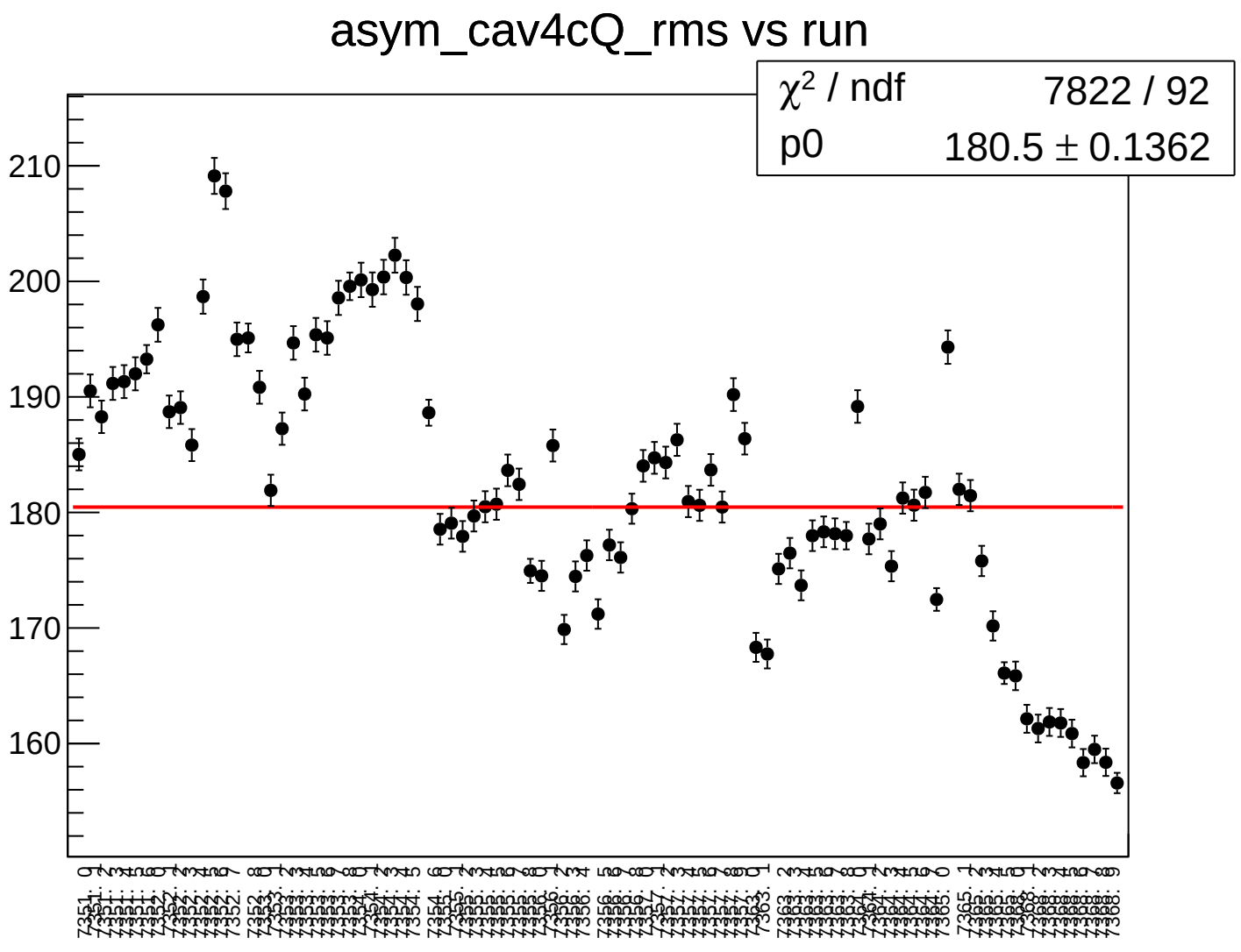

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.115e+04 / 92
p0 191.6 ± 0.1448
220
210
200
190
180
170
160

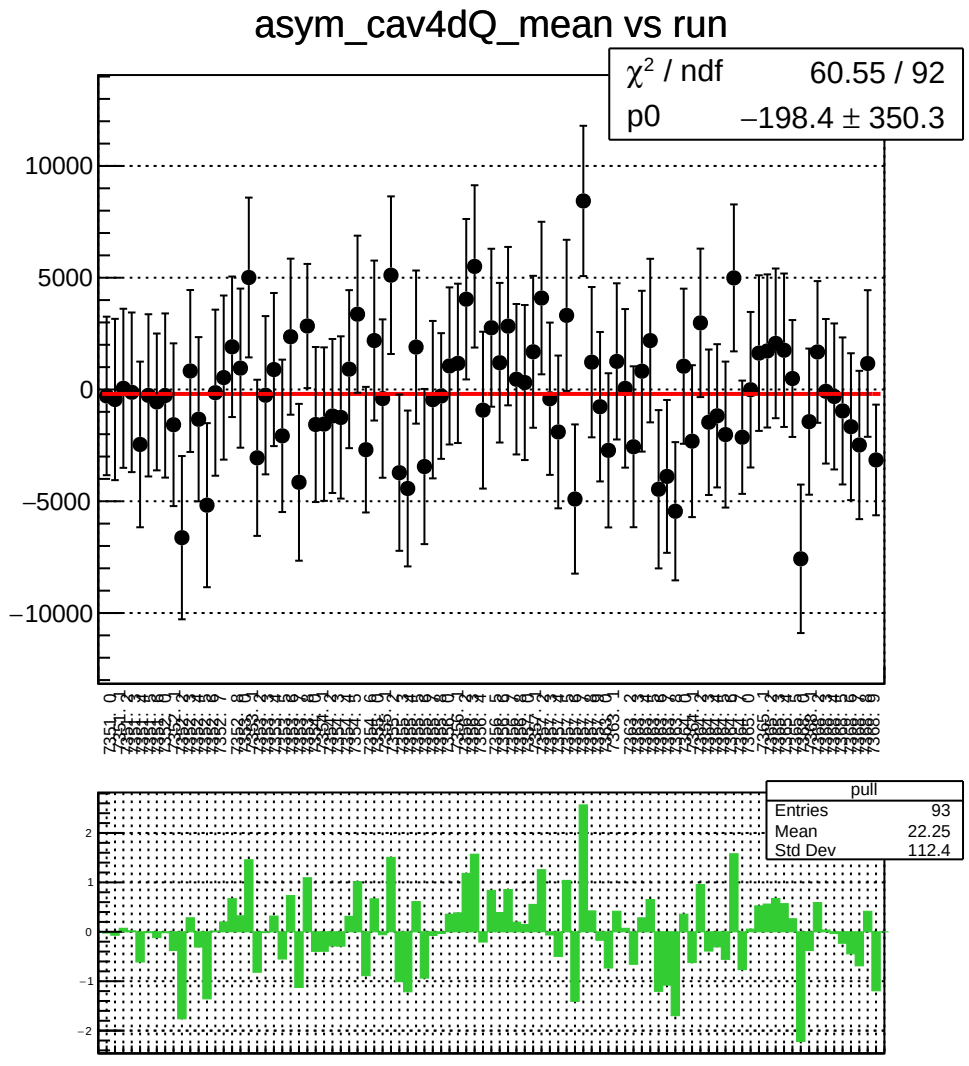

asym_cav4bQ_mean vs run
χ² / ndf 188.4 / 92
p0 305.9 ± 416.6
pull
Entries 93
Mean −143.5
Std Dev 188.8

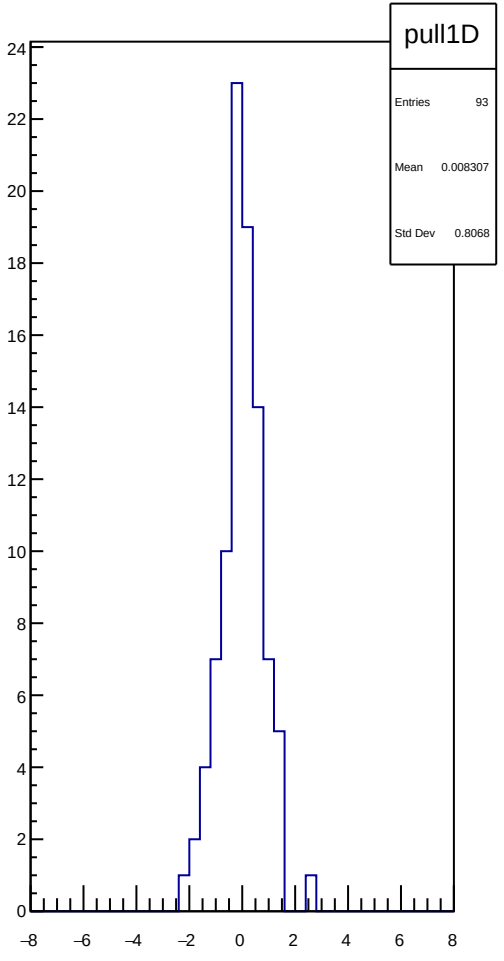

pull1D
Entries 93
Mean 0.01471
Std Dev 1.423

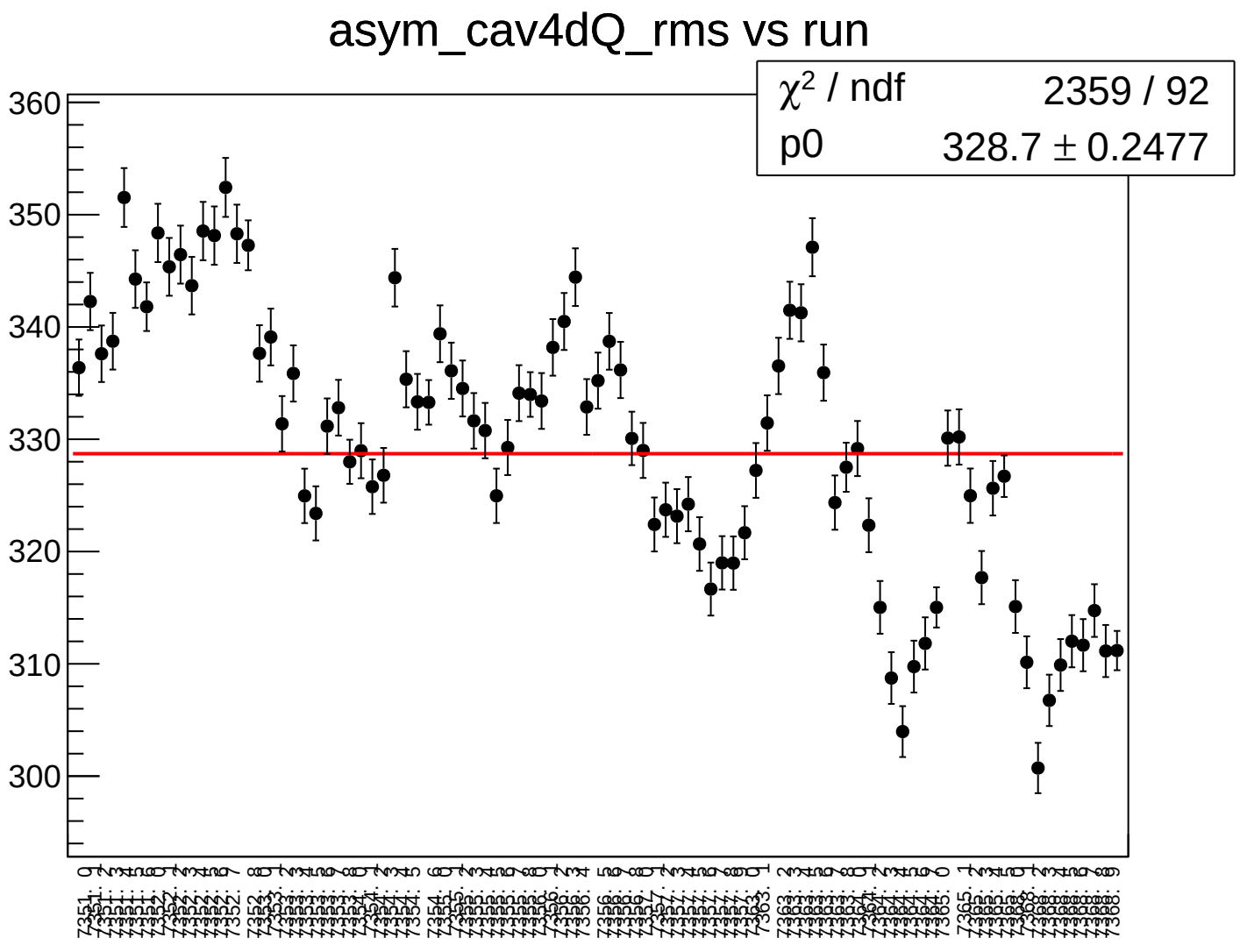

asym_cav4bQ_rms vs run
χ² / ndf 4122 / 92
p0 390.7 ± 0.2946
440
420
400
380
360
340

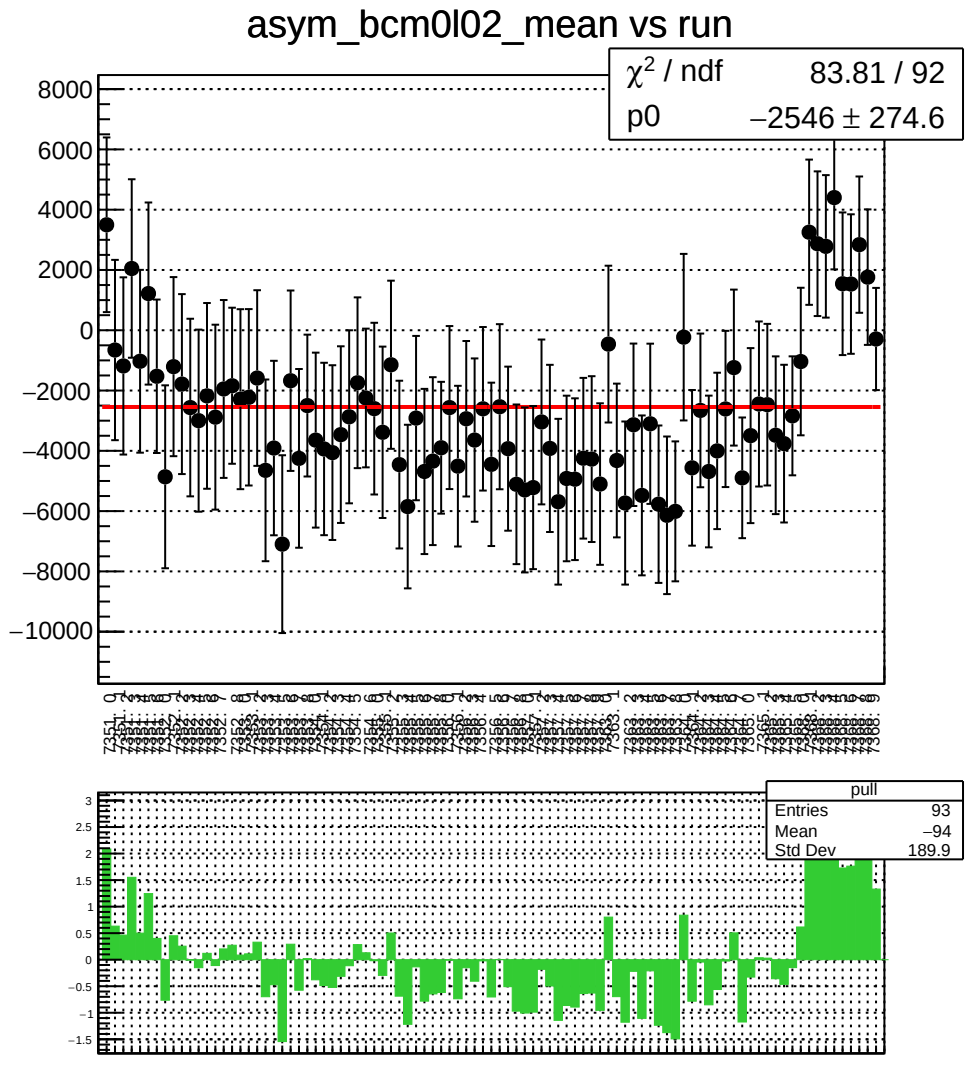

asym_cav4cQ_mean vs run
χ² / ndf 32.04 / 92
p0 −207.5 ± 192.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −422
Std Dev 465.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.004312
Std Dev 0.5869
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

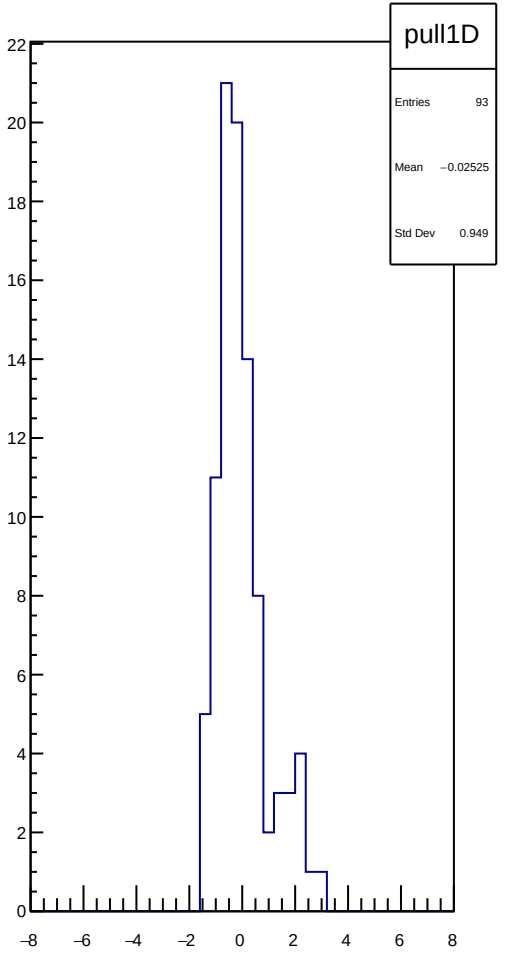

asym_cav4cQ_rms vs run
χ² / ndf 7822 / 92
p0 180.5 ± 0.1362
210
200
190
180
170
160

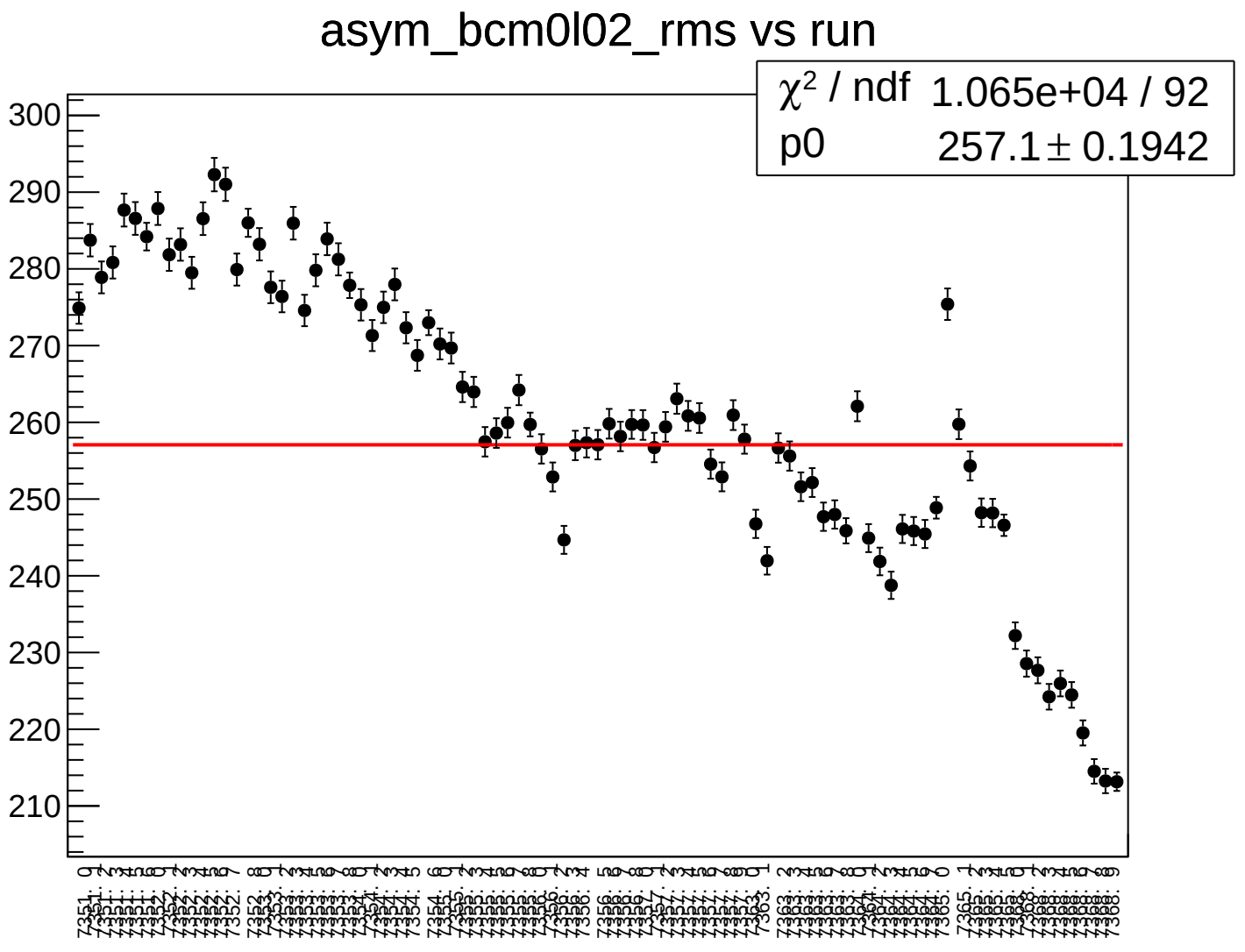

asym_cav4dQ_mean vs run
χ² / ndf 60.55 / 92
p0 −198.4 ± 350.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 22.25
Std Dev 112.4
2
1
0
−1
−2

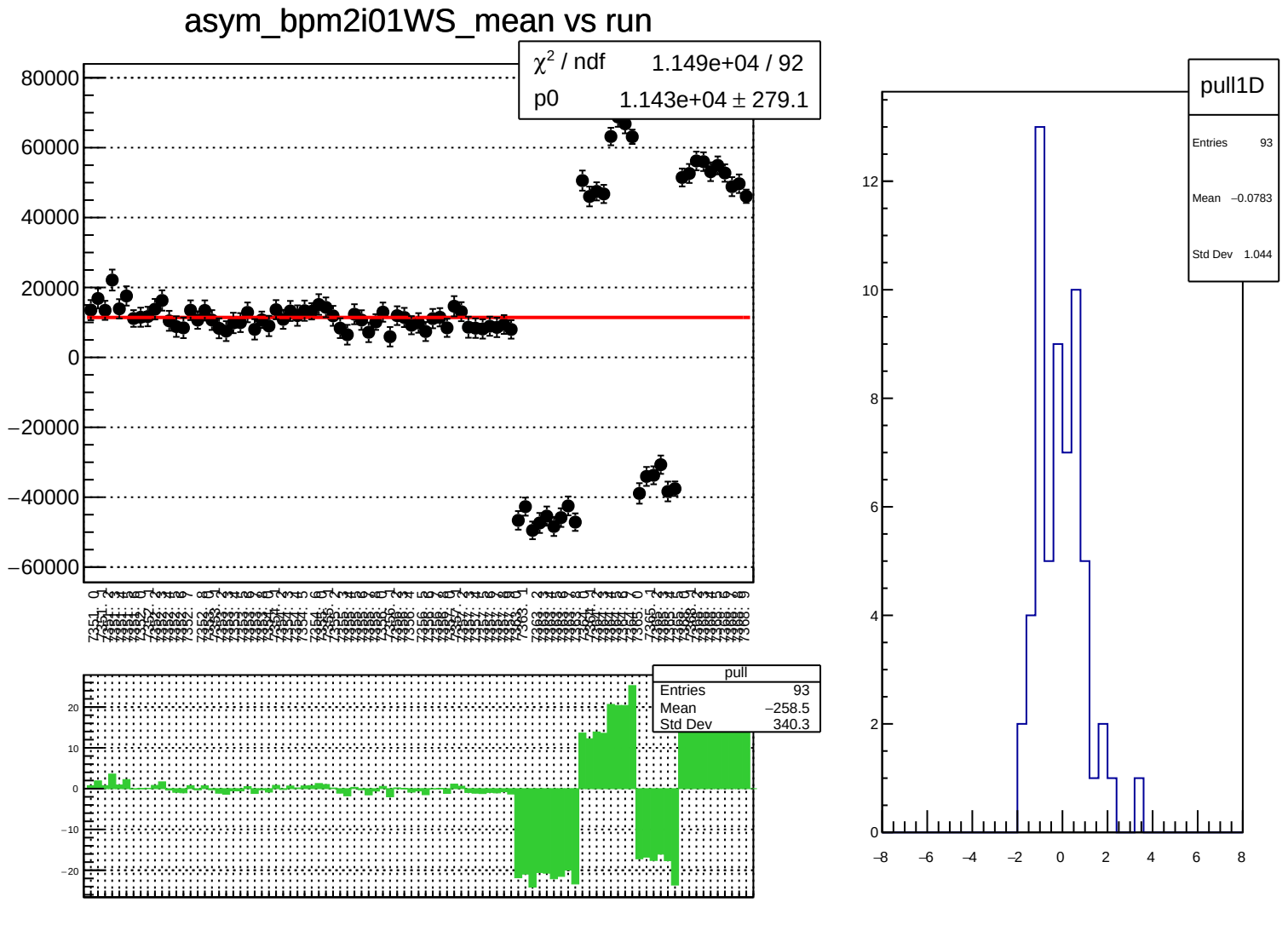

pull1D
Entries 93
Mean 0.008307
Std Dev 0.8068
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

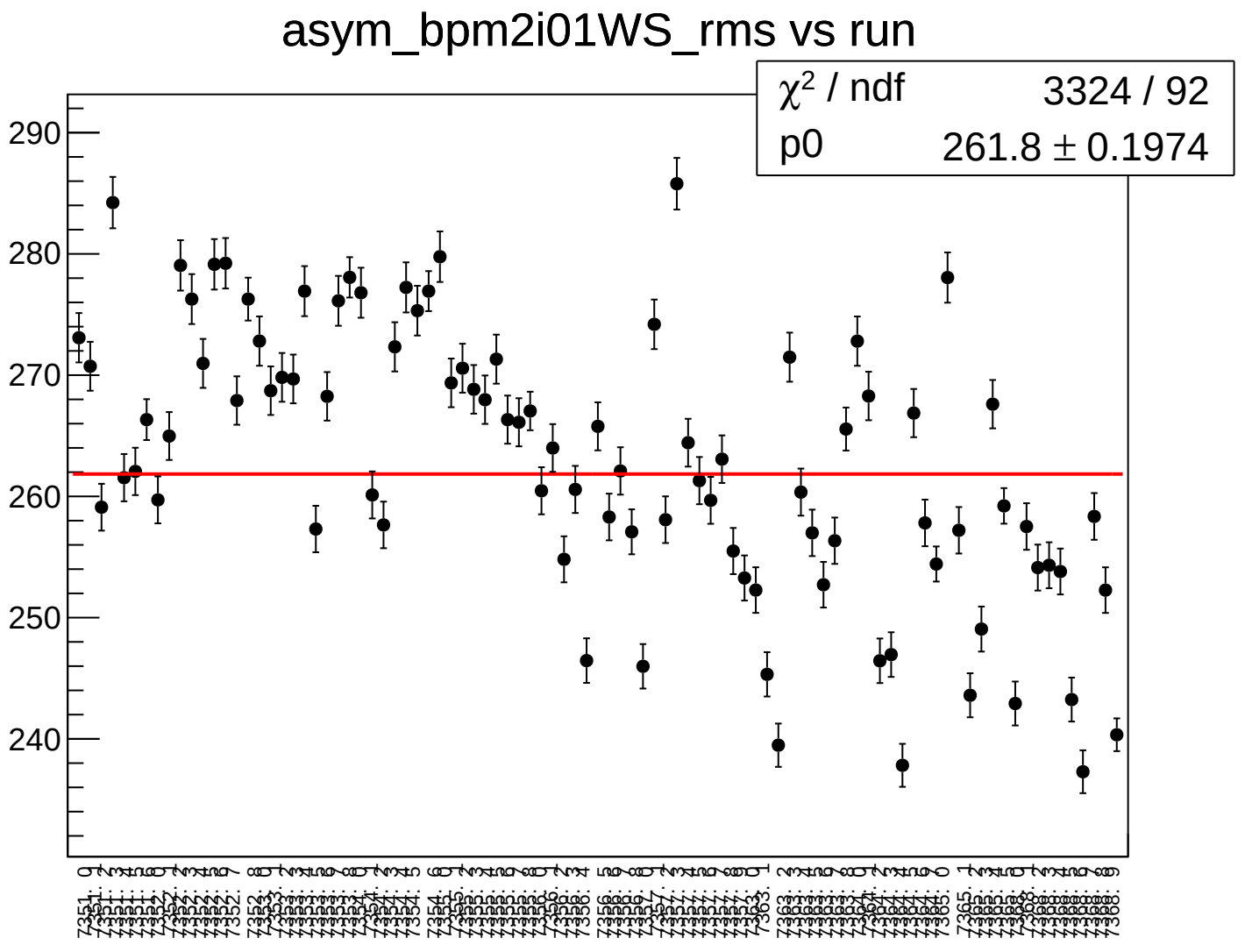

asym_cav4dQ_rms vs run
χ² / ndf 2359 / 92
p0 328.7 ± 0.2477
360
350
340
330
320
310
300

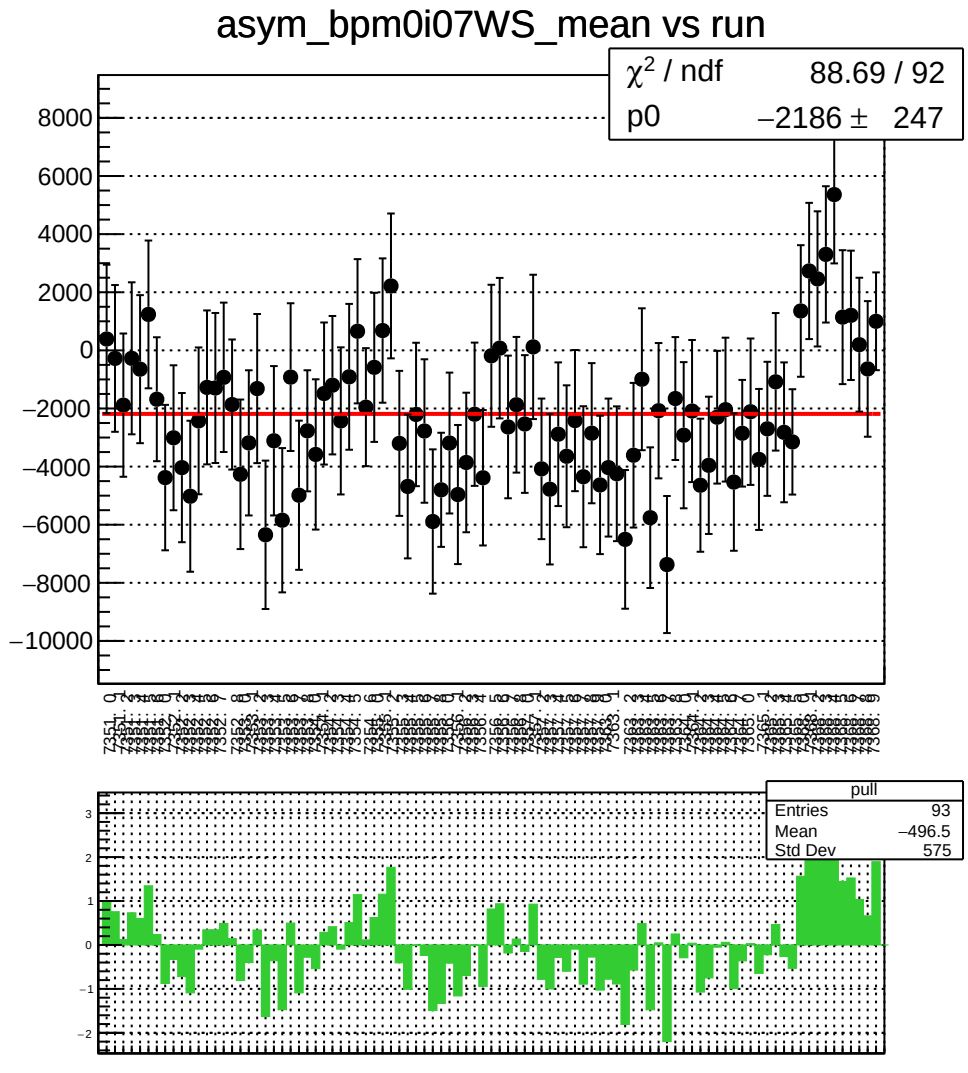

asym_bcm0l02_mean vs run
χ² / ndf 83.81 / 92
p0 −2546 ± 274.6
pull
Entries 93
Mean −94
Std Dev 189.9

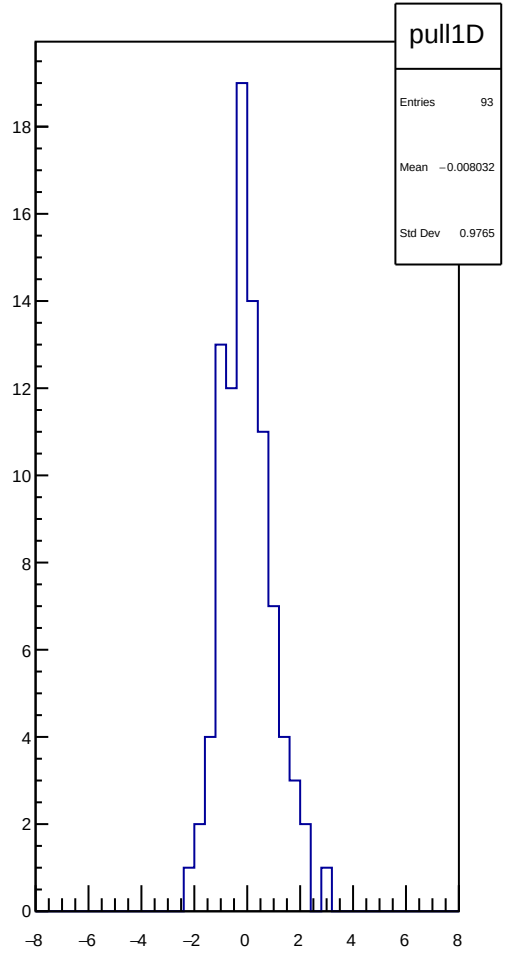

pull1D
Entries 93
Mean −0.02525
Std Dev 0.949

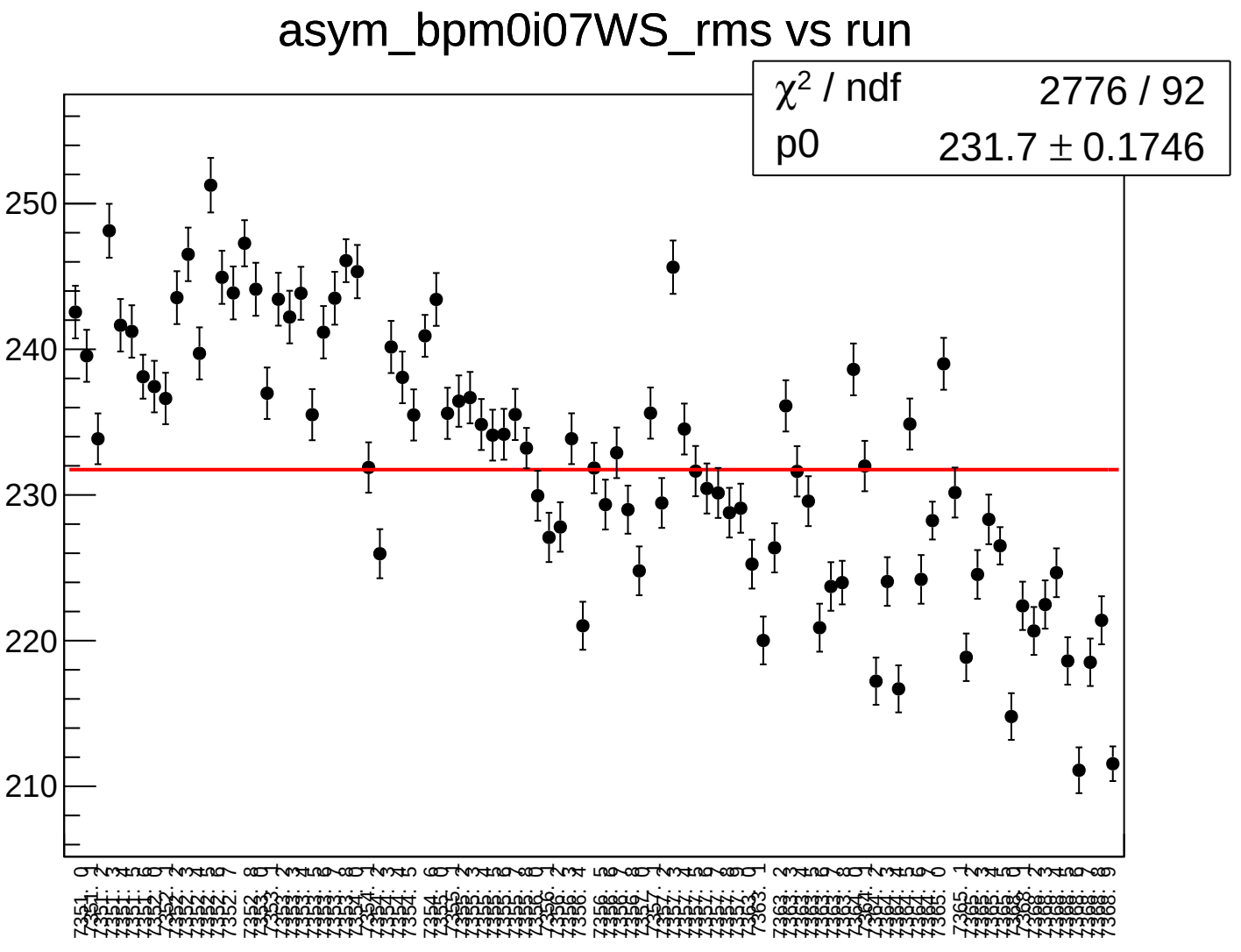

asym_bcm0l02_rms vs run
χ² / ndf 1.065e+04 / 92
p0 257.1 ± 0.1942
300
290
280
270
260
250
240
230
220
210

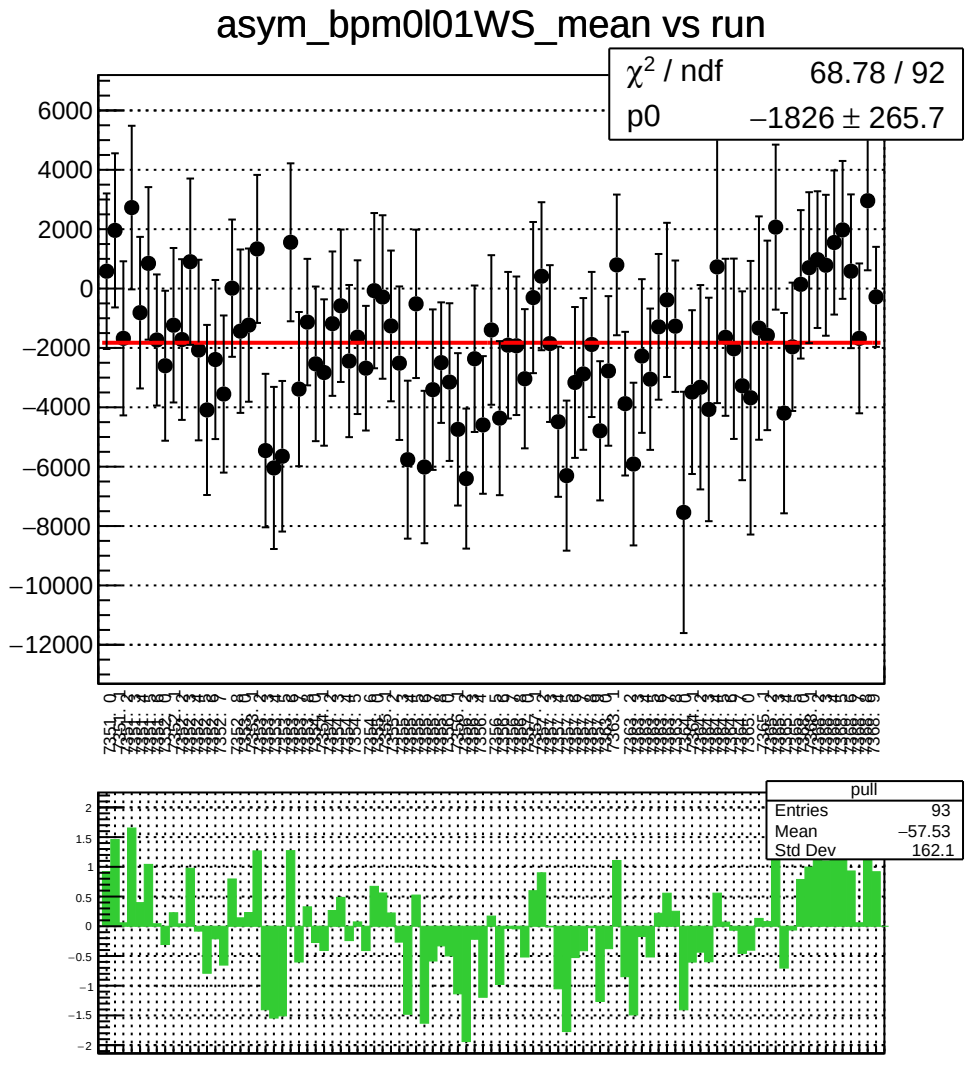

asym_bpm2i01WS_mean vs run
χ² / ndf 1.149e+04 / 92
p0 1.143e+04 ± 279.1
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −258.5
Std Dev 340.3
20
10
0
−10
−20
pull1D
Entries 93
Mean −0.0783
Std Dev 1.044
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

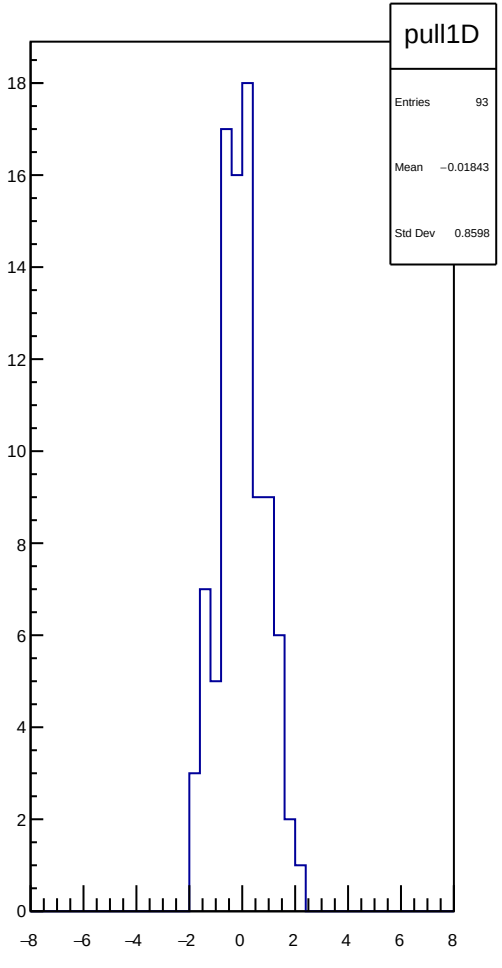

asym_bpm2i01WS_rms vs run
χ² / ndf 3324 / 92
p0 261.8 ± 0.1974
290
280
270
260
250
240

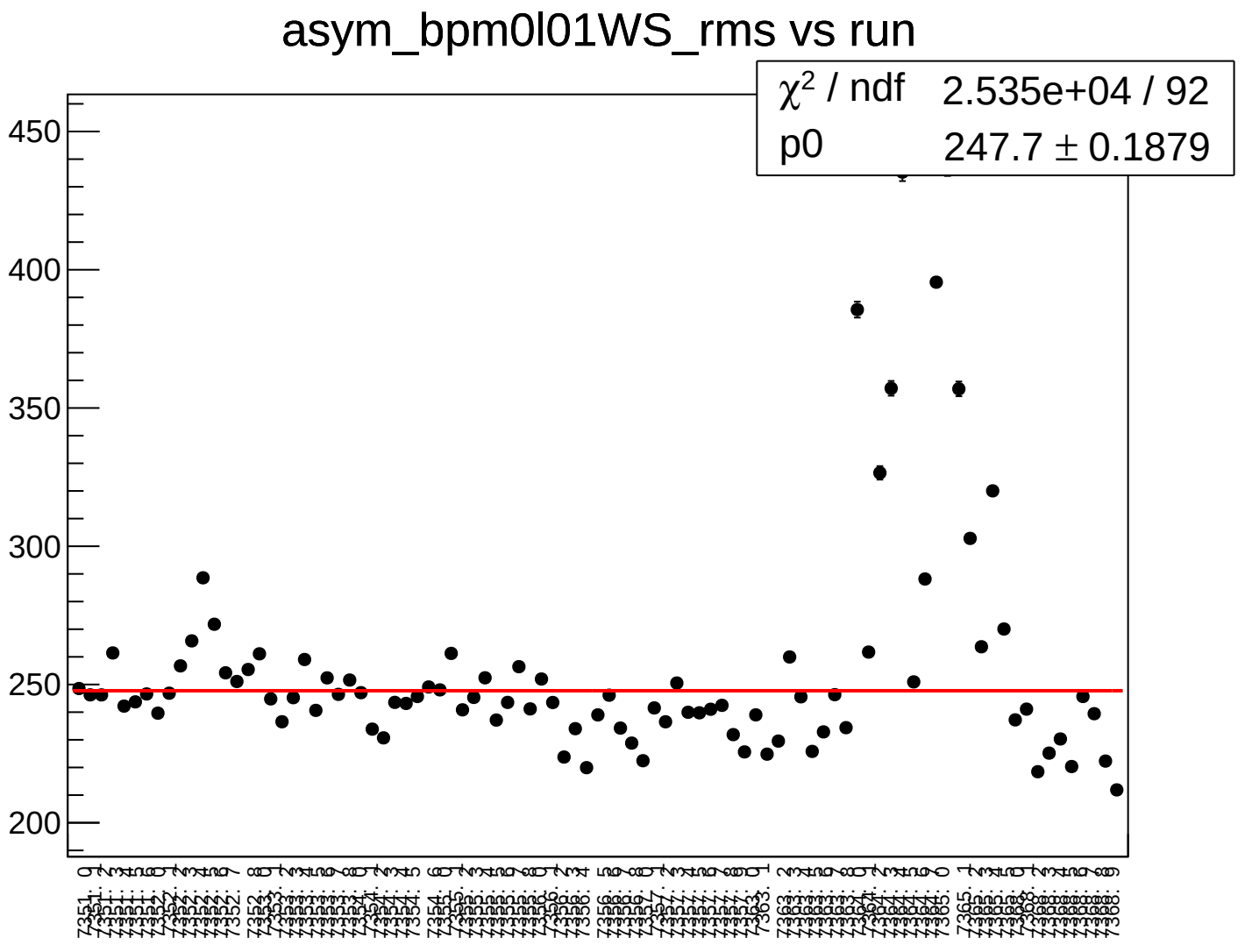

asym_bpm0i07WS_mean vs run
χ² / ndf 88.69 / 92
p0 −2186 ± 247
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
pull
Entries 93
Mean −496.5
Std Dev 575
3
2
1
0
−1
−2

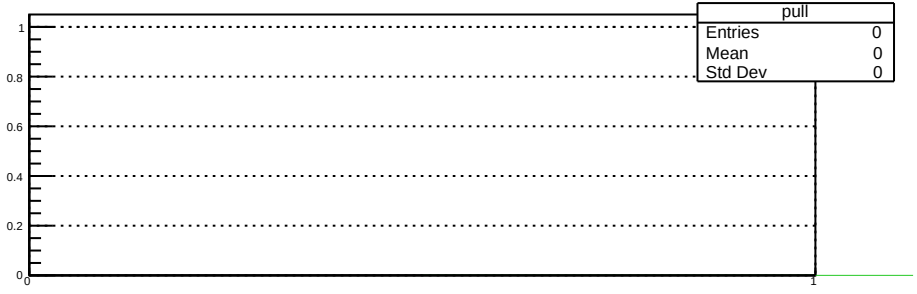

pull1D
Entries 93
Mean −0.008032
Std Dev 0.9765
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

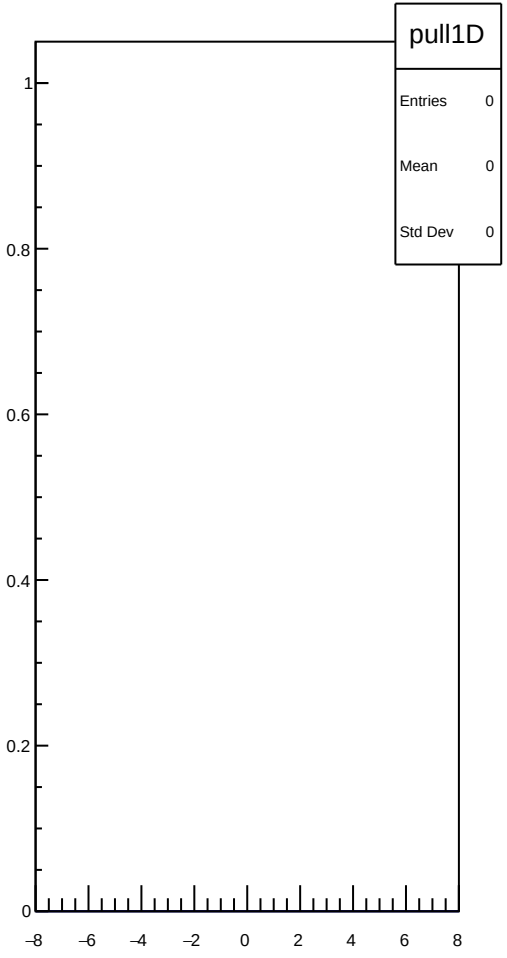

asym_bpm0i07WS_rms vs run
χ² / ndf 2776 / 92
p0 231.7 ± 0.1746
250
240
230
220
210

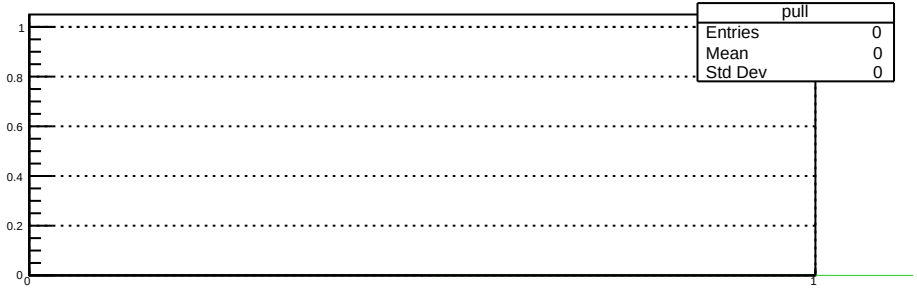

asym_bpm0l01WS_mean vs run
χ² / ndf 68.78 / 92
p0 −1826 ± 265.7
pull
Entries 93
Mean −57.53
Std Dev 162.1

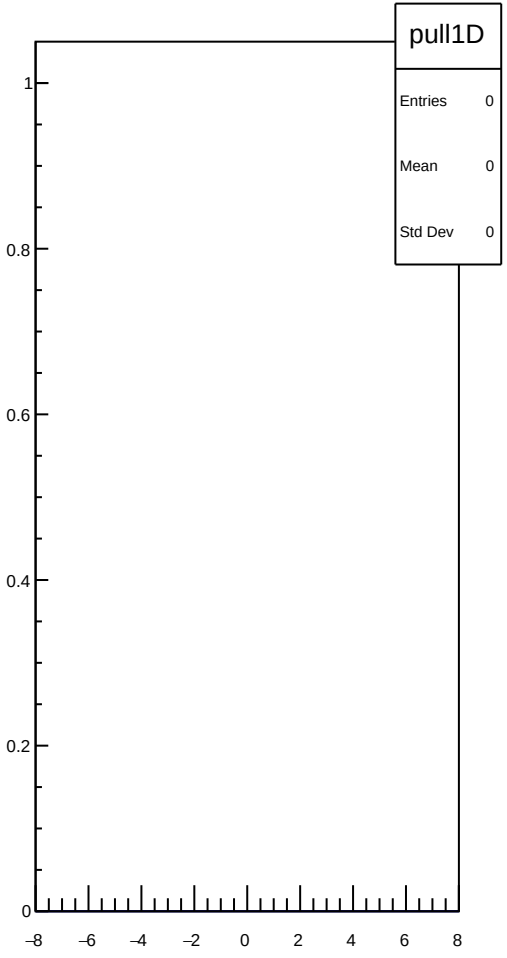

pull1D
Entries 93
Mean −0.01843
Std Dev 0.8598

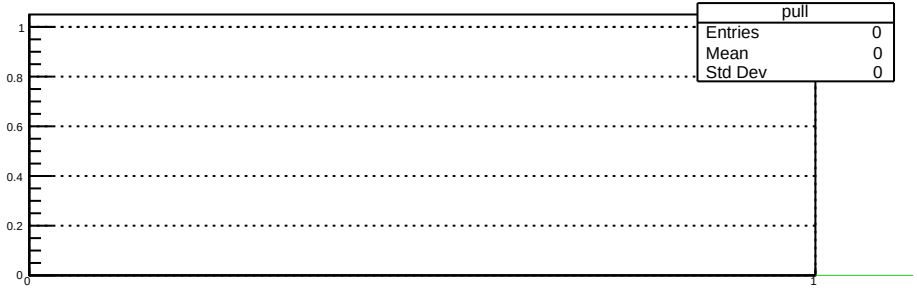

asym_bpm0l01WS_rms vs run
χ^2 / ndf 2.535e+04 / 92
p0 247.7 ± 0.1879
450
400
350
300
250
200

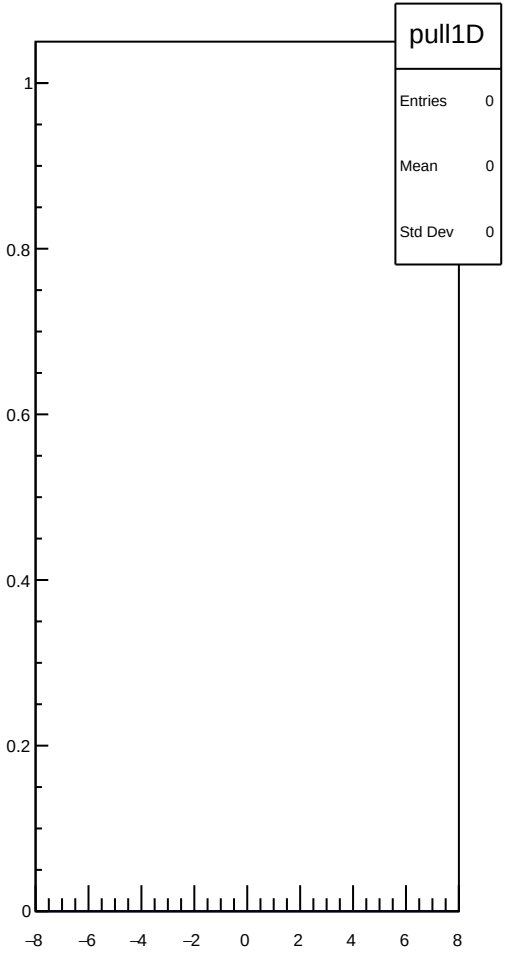

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

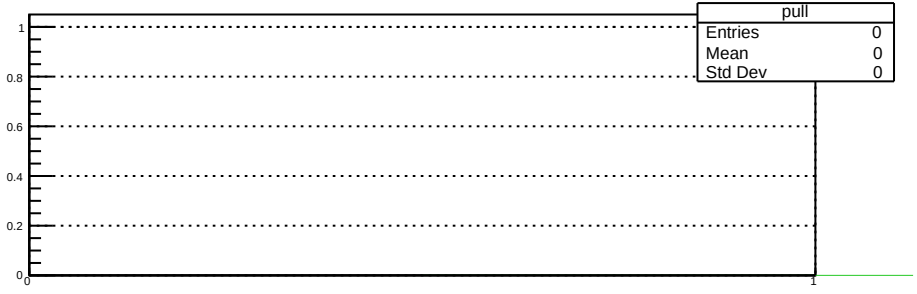

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

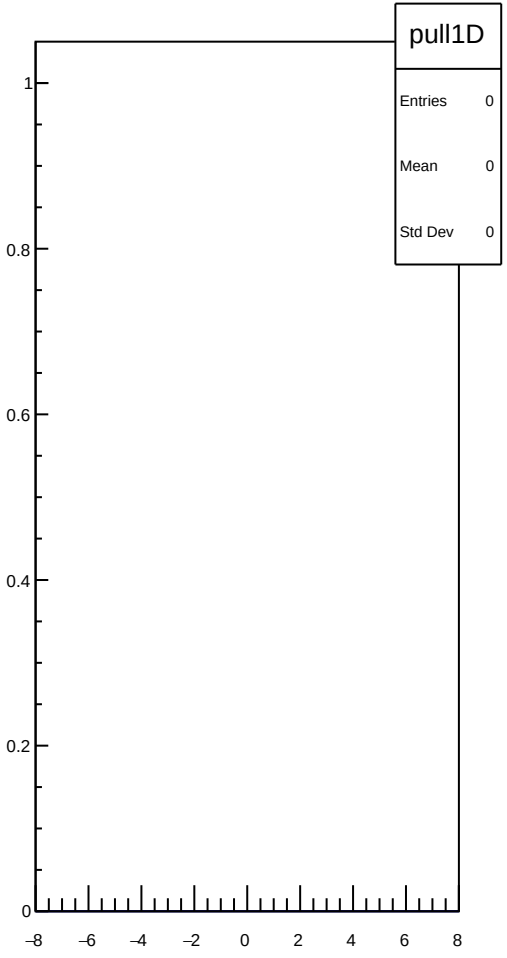

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

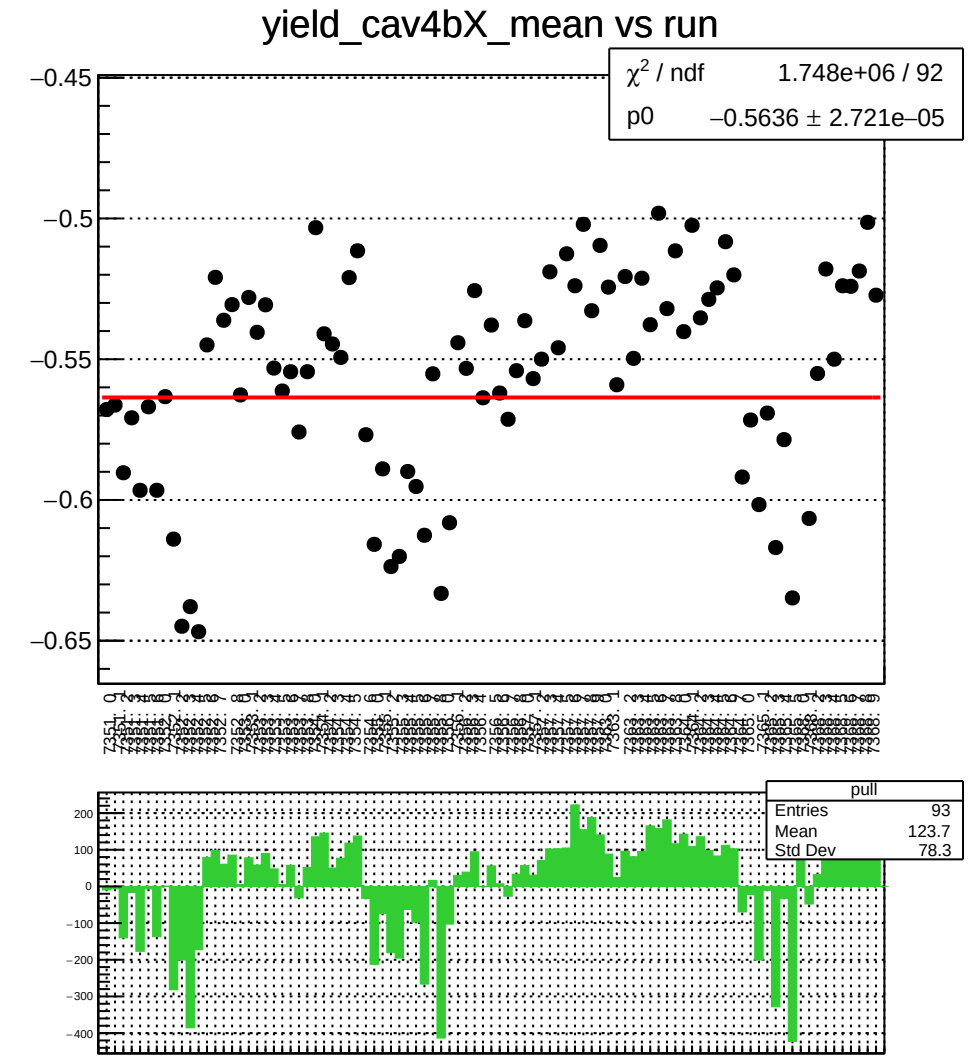

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

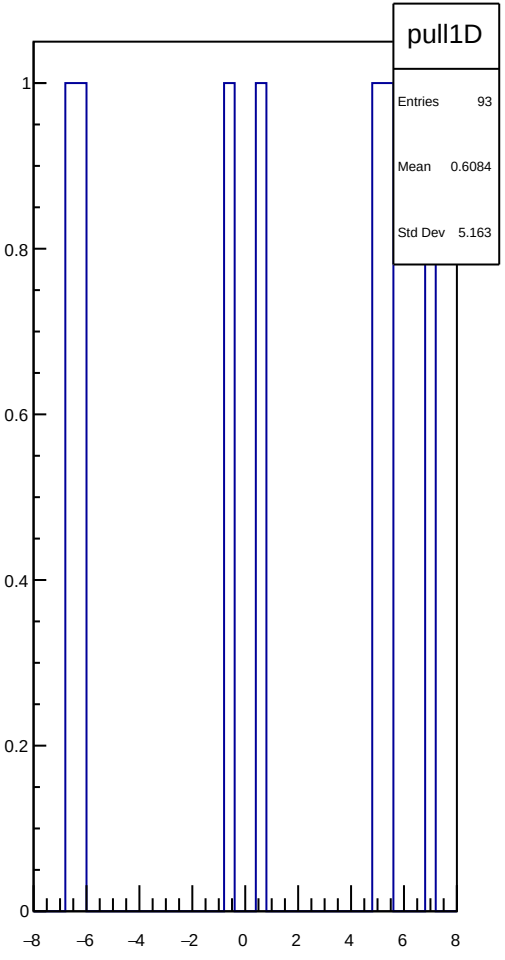

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

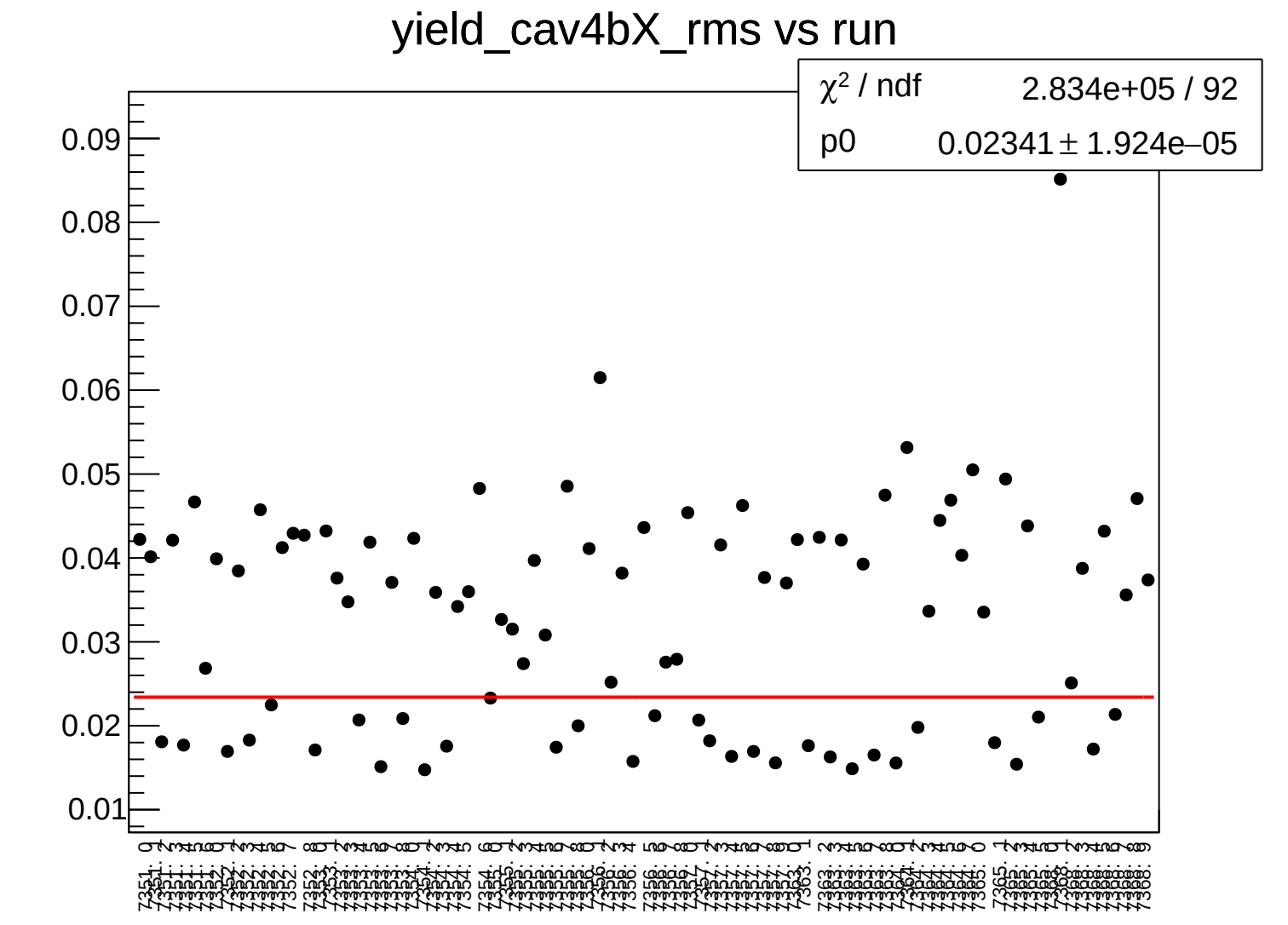

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

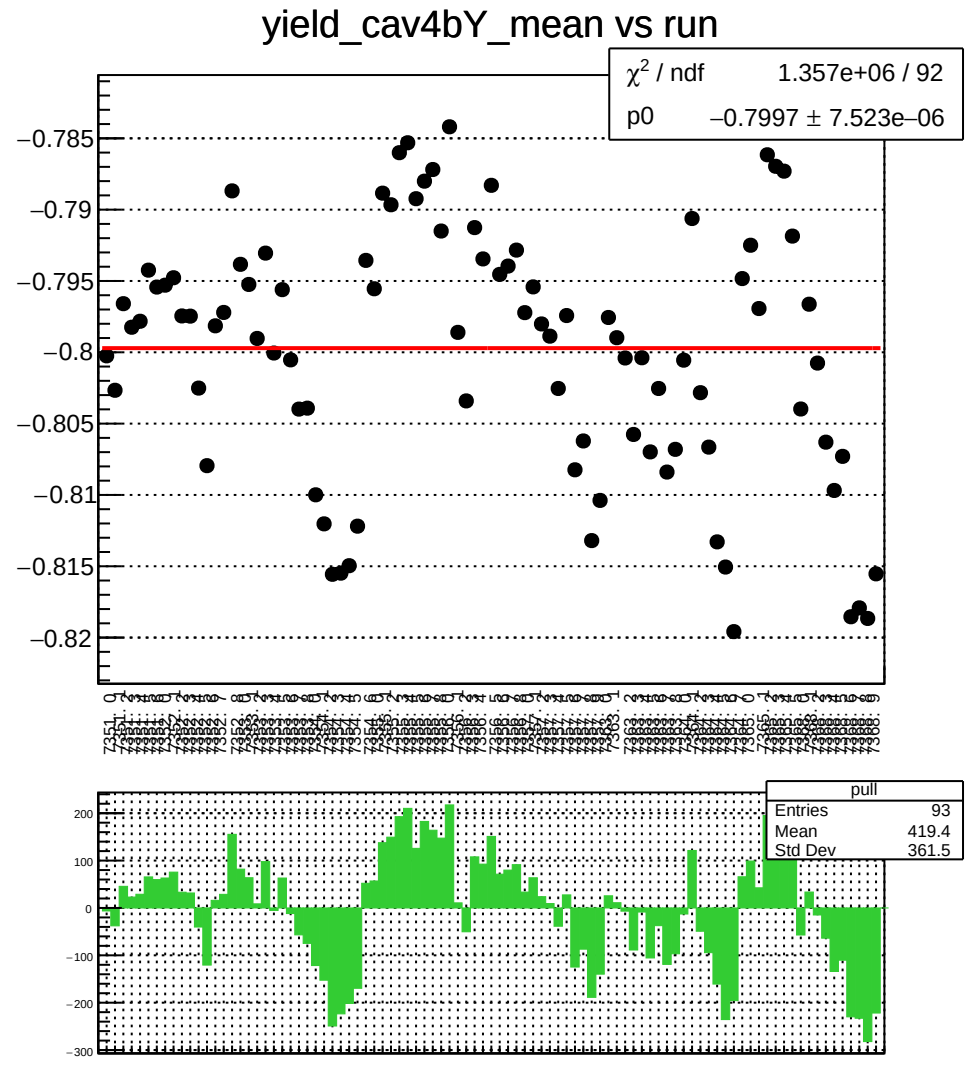

pull
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
0
1

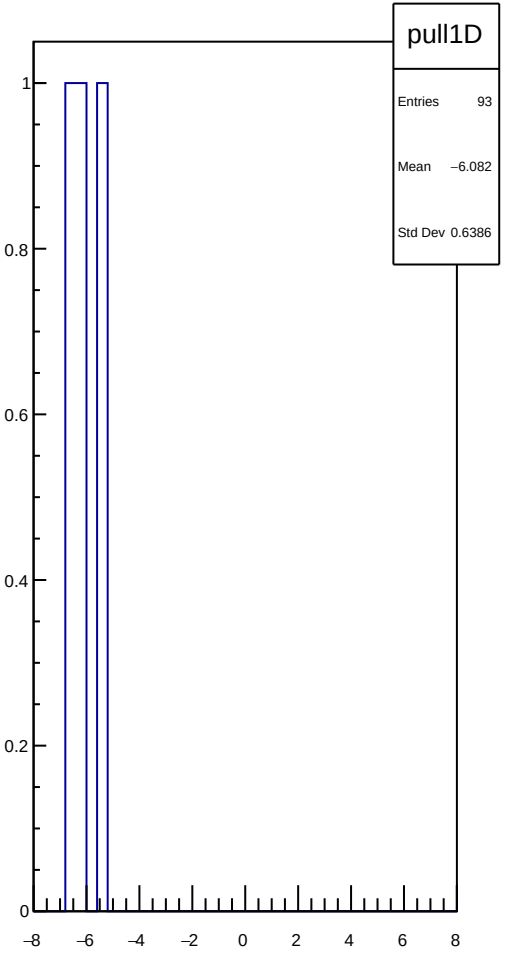

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

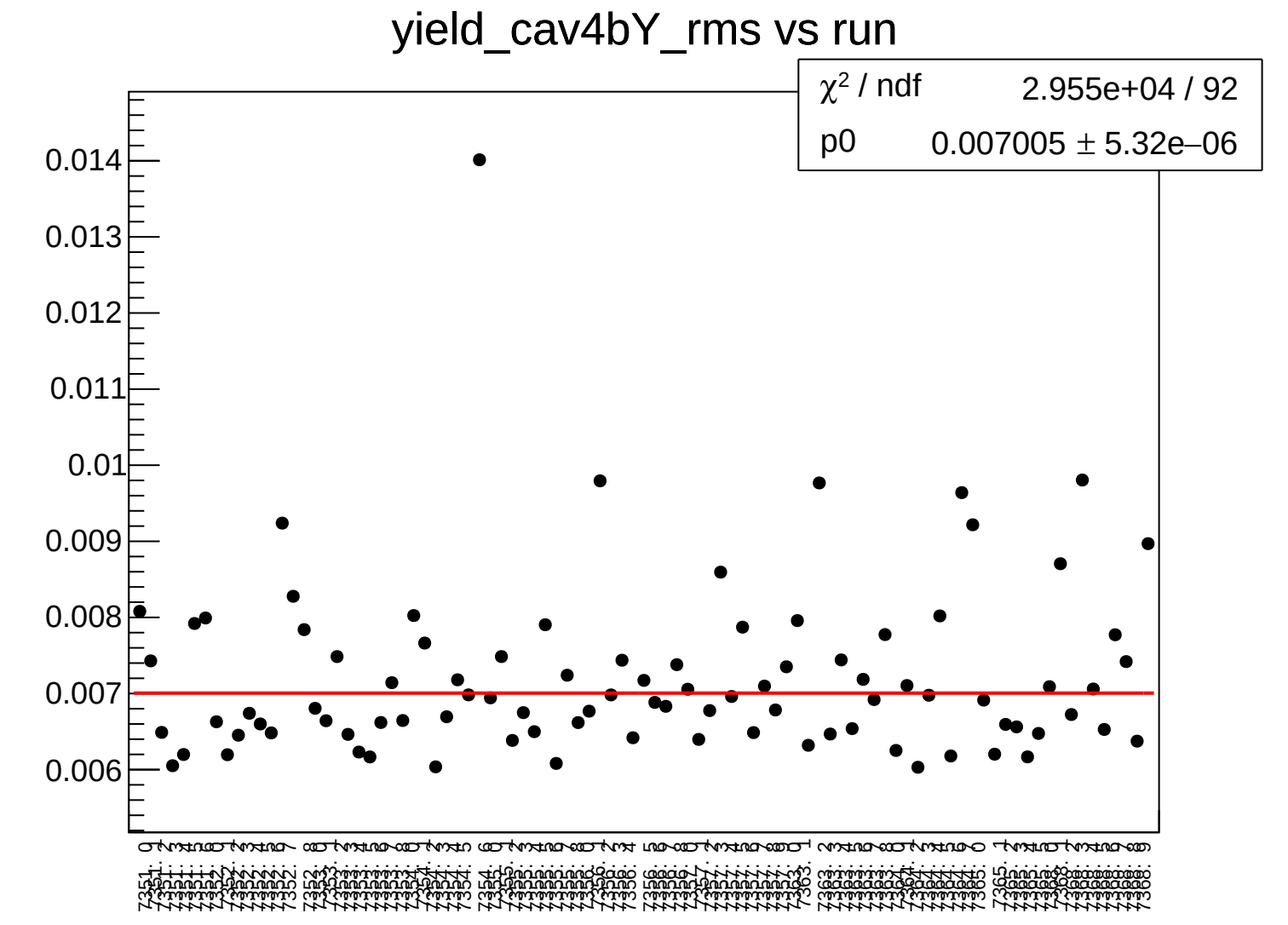

yield_cav4bX_mean vs run
χ² / ndf 1.748e+06 / 92
p0 −0.5636 ± 2.721e−05
−0.45
−0.5
−0.55
−0.6
−0.65
pull
Entries 93
Mean 123.7
Std Dev 78.3
200
100
0
−100
−200
−300
−400

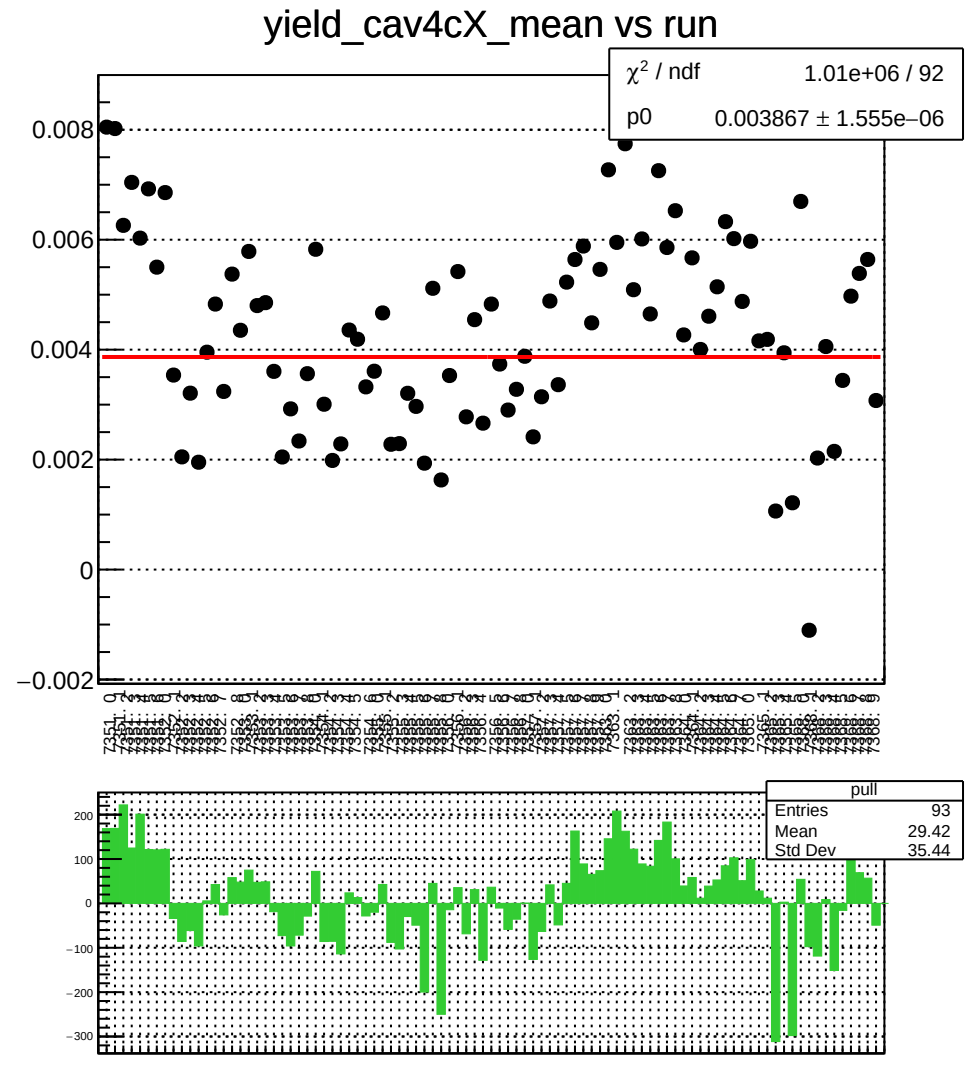

pull1D
Entries 93
Mean 0.6084
Std Dev 5.163
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

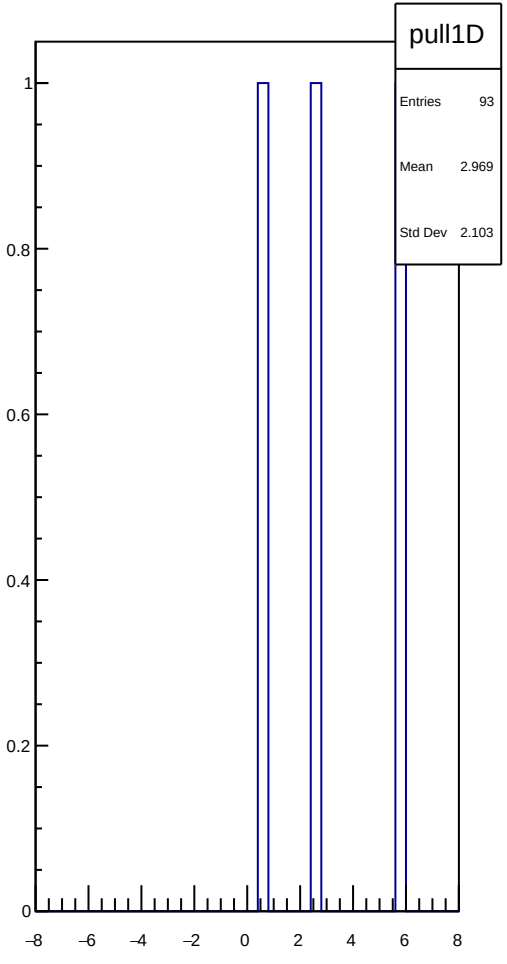

yield_cav4bX_rms vs run
χ² / ndf 2.834e+05 / 92
p0 0.02341 ± 1.924e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

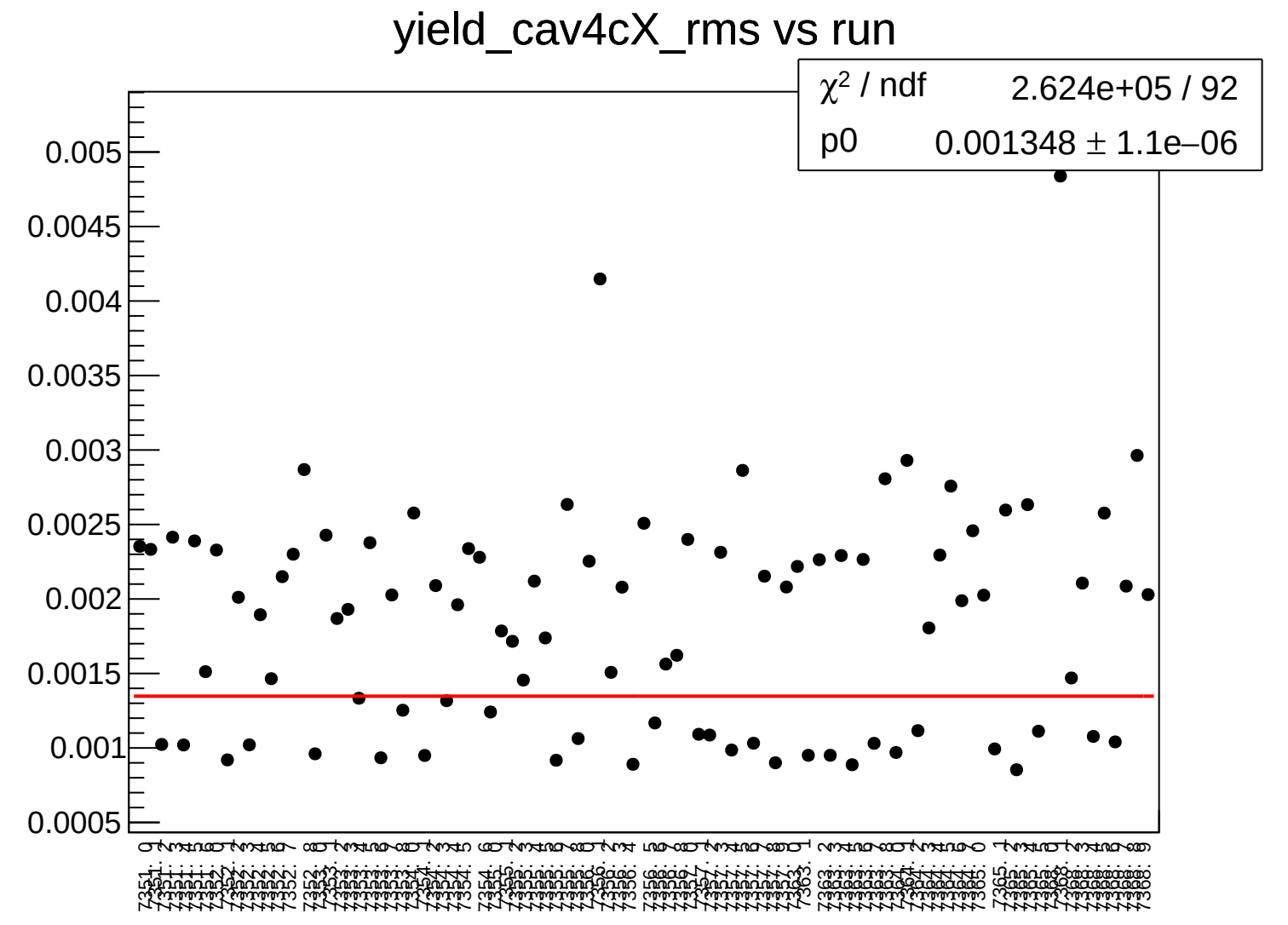

yield_cav4bY_mean vs run
χ² / ndf 1.357e+06 / 92
p0 −0.7997 ± 7.523e−06
−0.785
−0.79
−0.795
−0.8
−0.805
−0.81
−0.815
−0.82
pull
Entries 93
Mean 419.4
Std Dev 361.5
200
100
0
−100
−200
−300

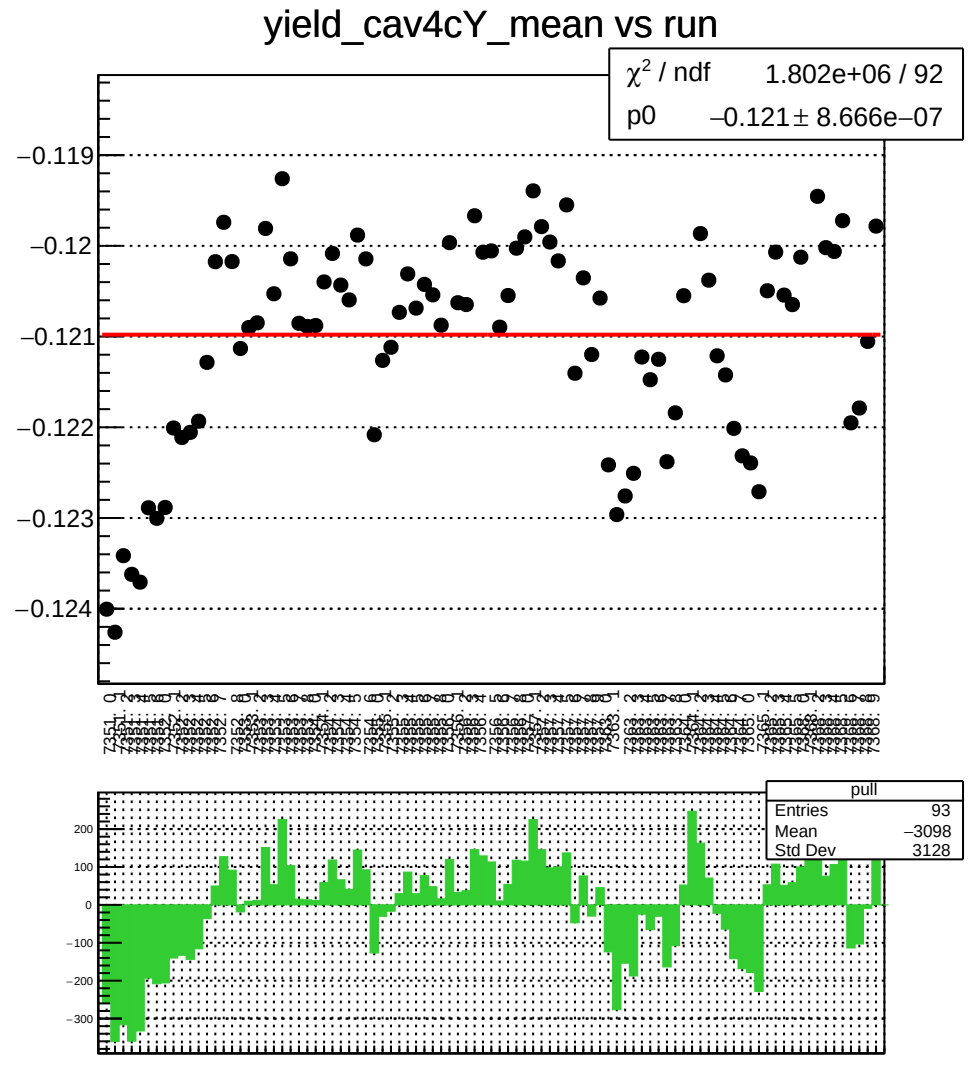

pull1D
Entries 93
Mean −6.082
Std Dev 0.6386
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

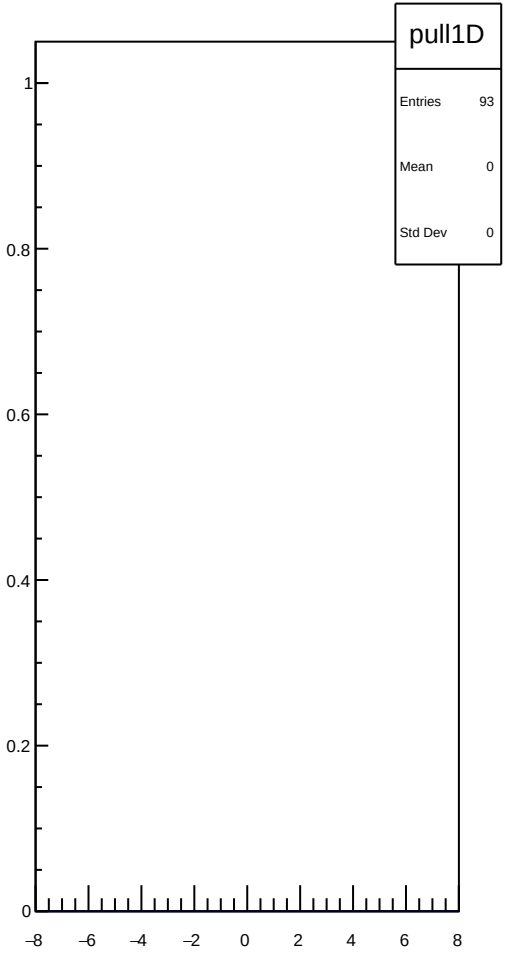

yield_cav4bY_rms vs run
χ² / ndf 2.955e+04 / 92
p0 0.007005 ± 5.32e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

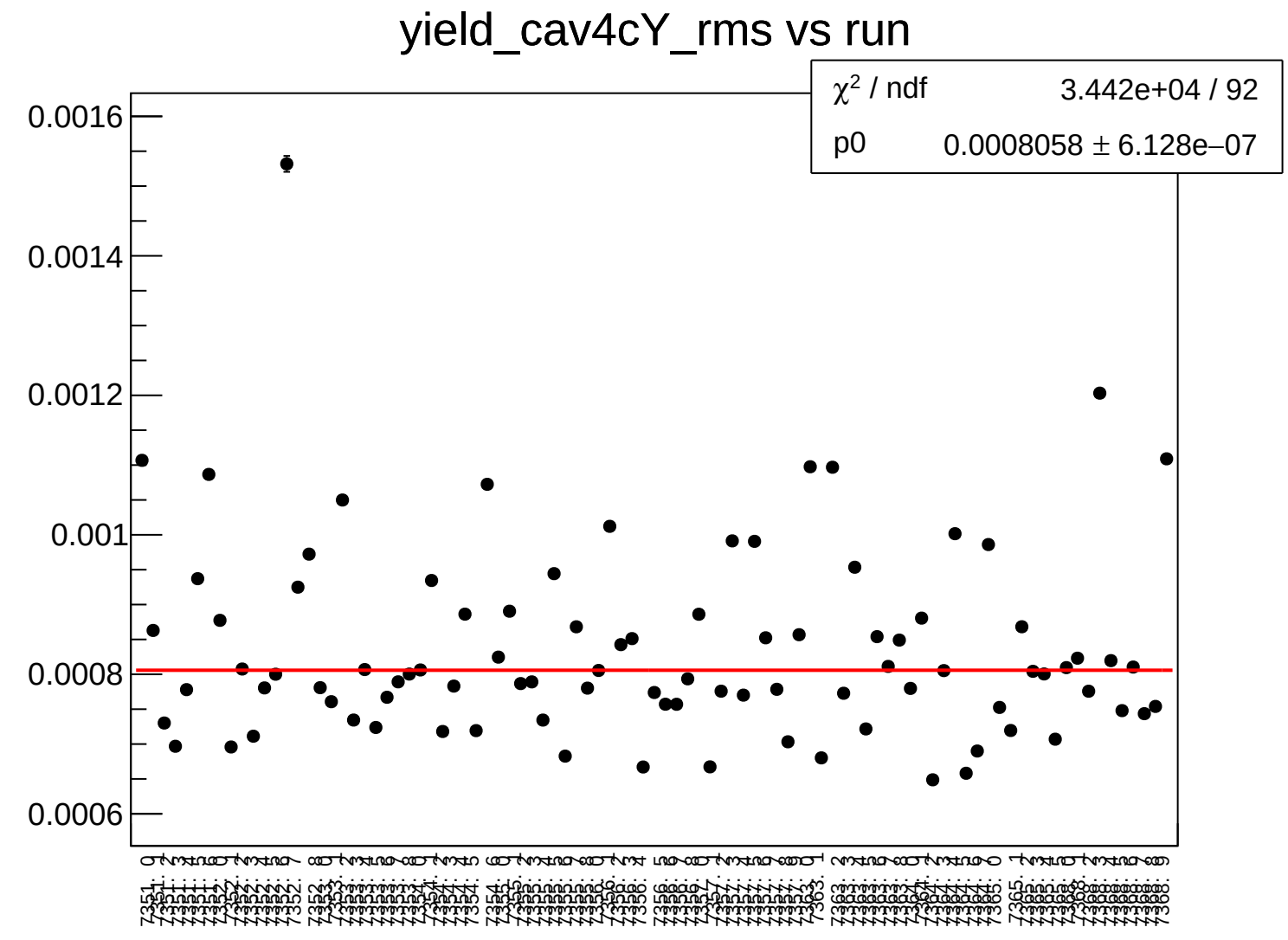

yield_cav4cX_mean vs run
χ² / ndf 1.01e+06 / 92
p0 0.003867 ± 1.555e−06
0.008
0.006
0.004
0.002
0
−0.002
pull
Entries 93
Mean 29.42
Std Dev 35.44
200
100
0
−100
−200
−300

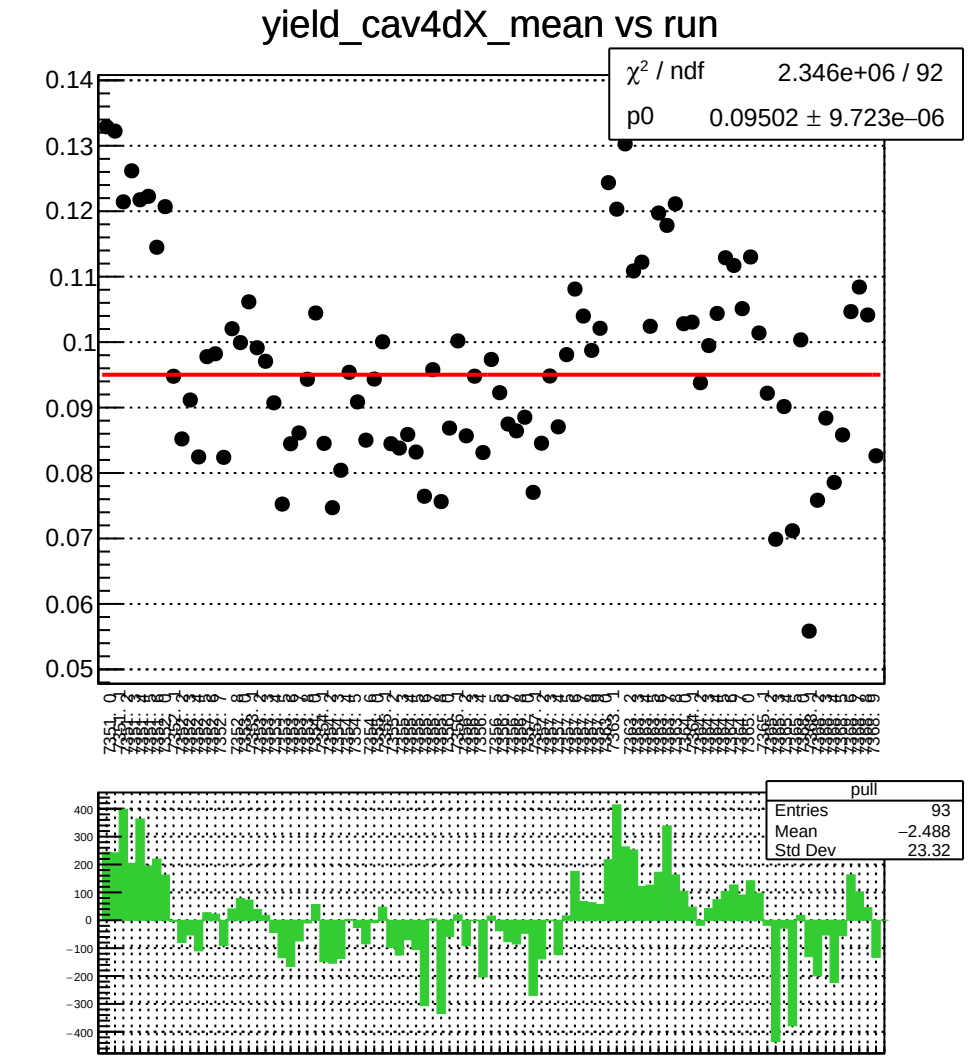

pull1D
Entries 93
Mean 2.969
Std Dev 2.103
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

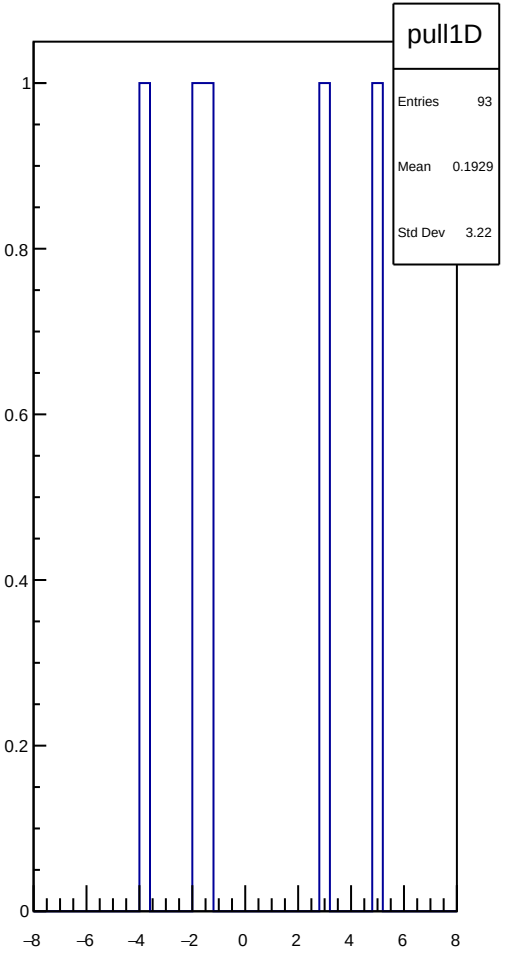

yield_cav4cX_rms vs run
χ² / ndf 2.624e+05 / 92
p0 0.001348 ± 1.1e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

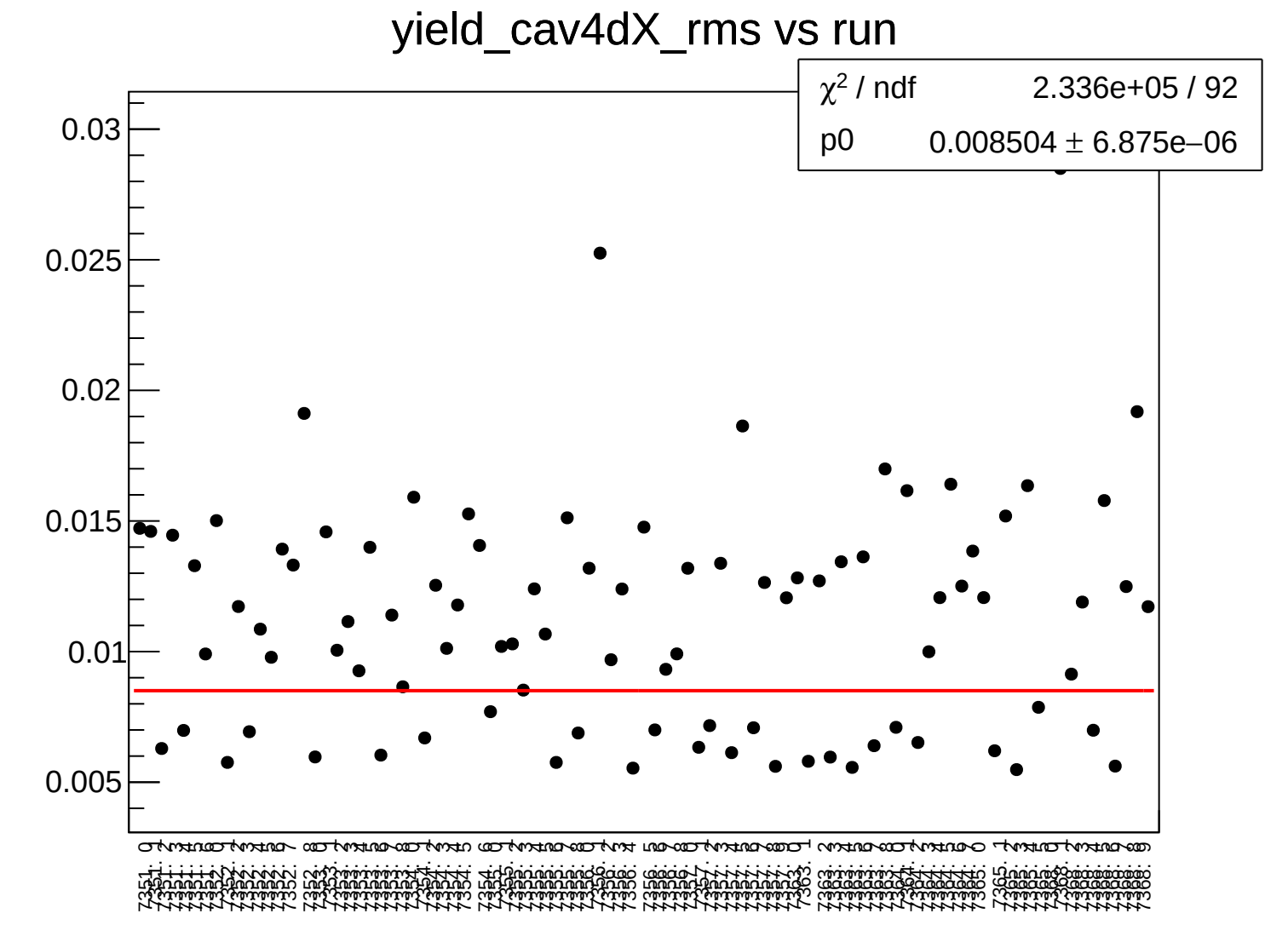

yield_cav4cY_mean vs run
χ² / ndf 1.802e+06 / 92
p0 −0.121 ± 8.666e−07
−0.119
−0.12
−0.121
−0.122
−0.123
−0.124
pull
Entries 93
Mean −3098
Std Dev 3128
200
100
0
−100
−200
−300

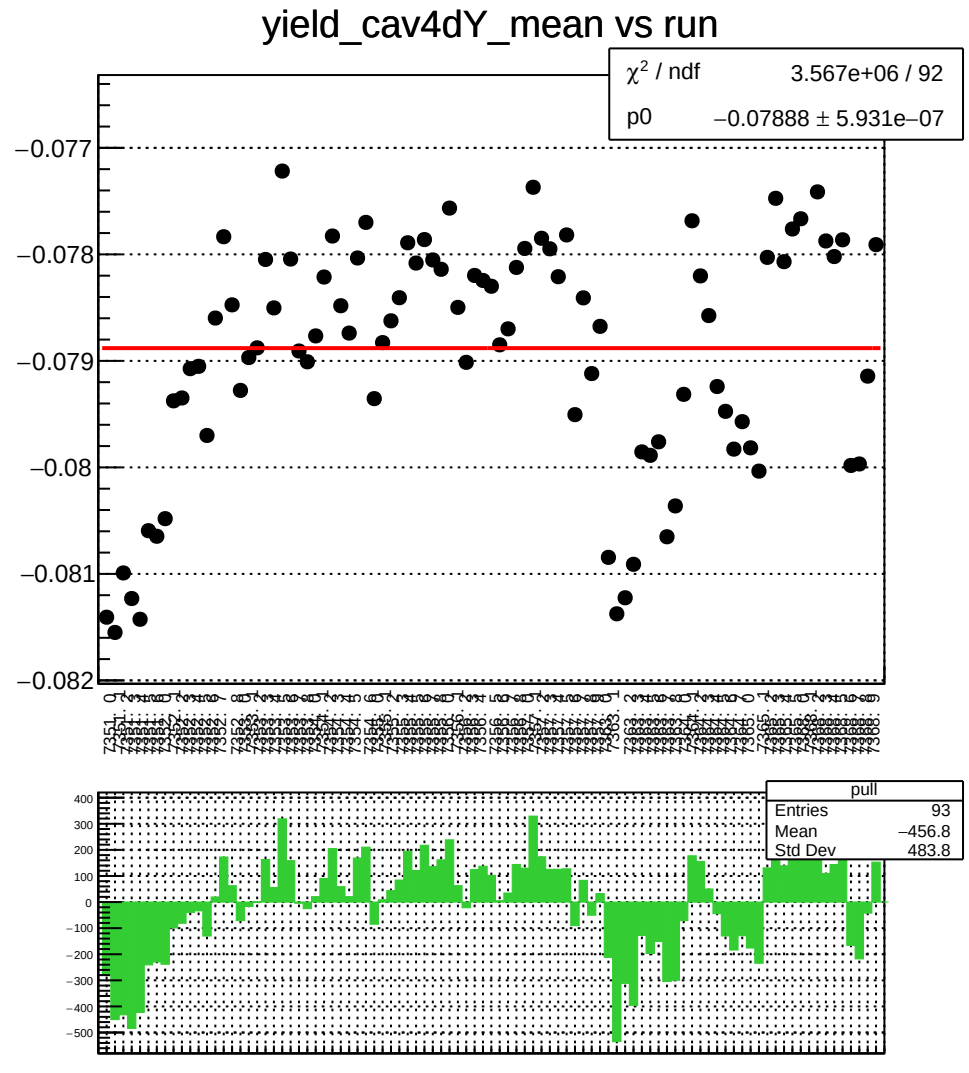

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

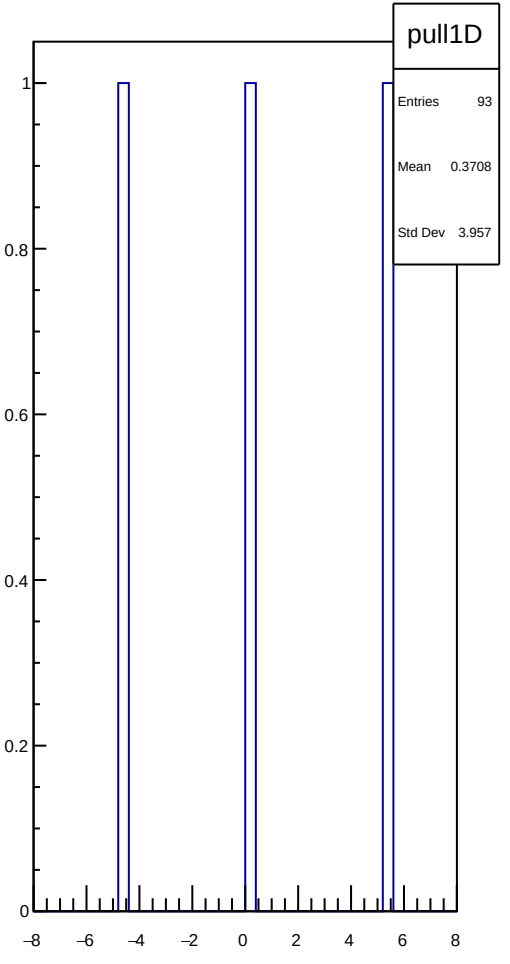

yield_cav4cY_rms vs run
χ² / ndf 3.442e+04 / 92
p0 0.0008058 ± 6.128e−07
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

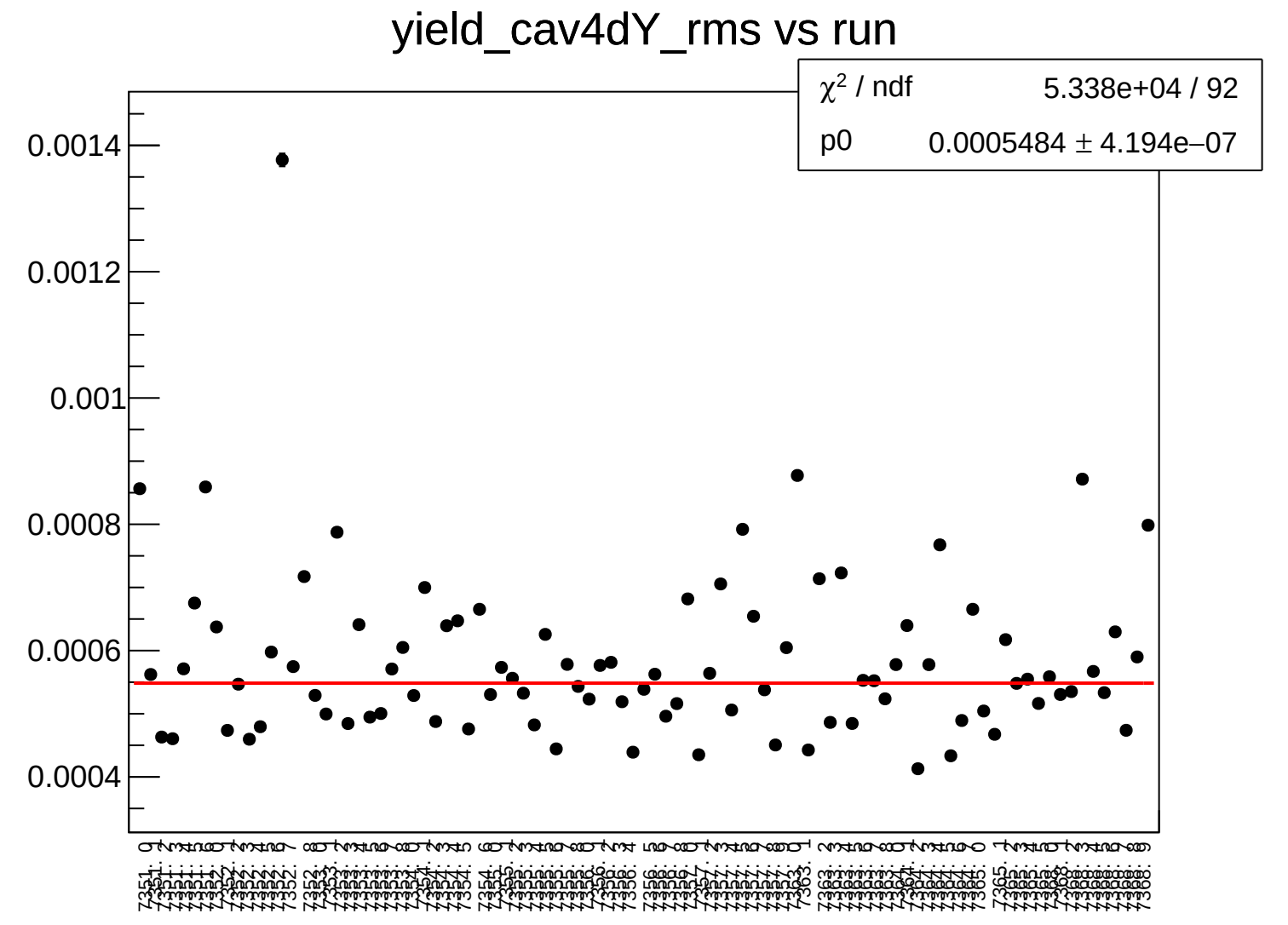

yield_cav4dX_mean vs run
χ² / ndf 2.346e+06 / 92
p0 0.09502 ± 9.723e−06
pull
Entries 93
Mean −2.488
Std Dev 23.32

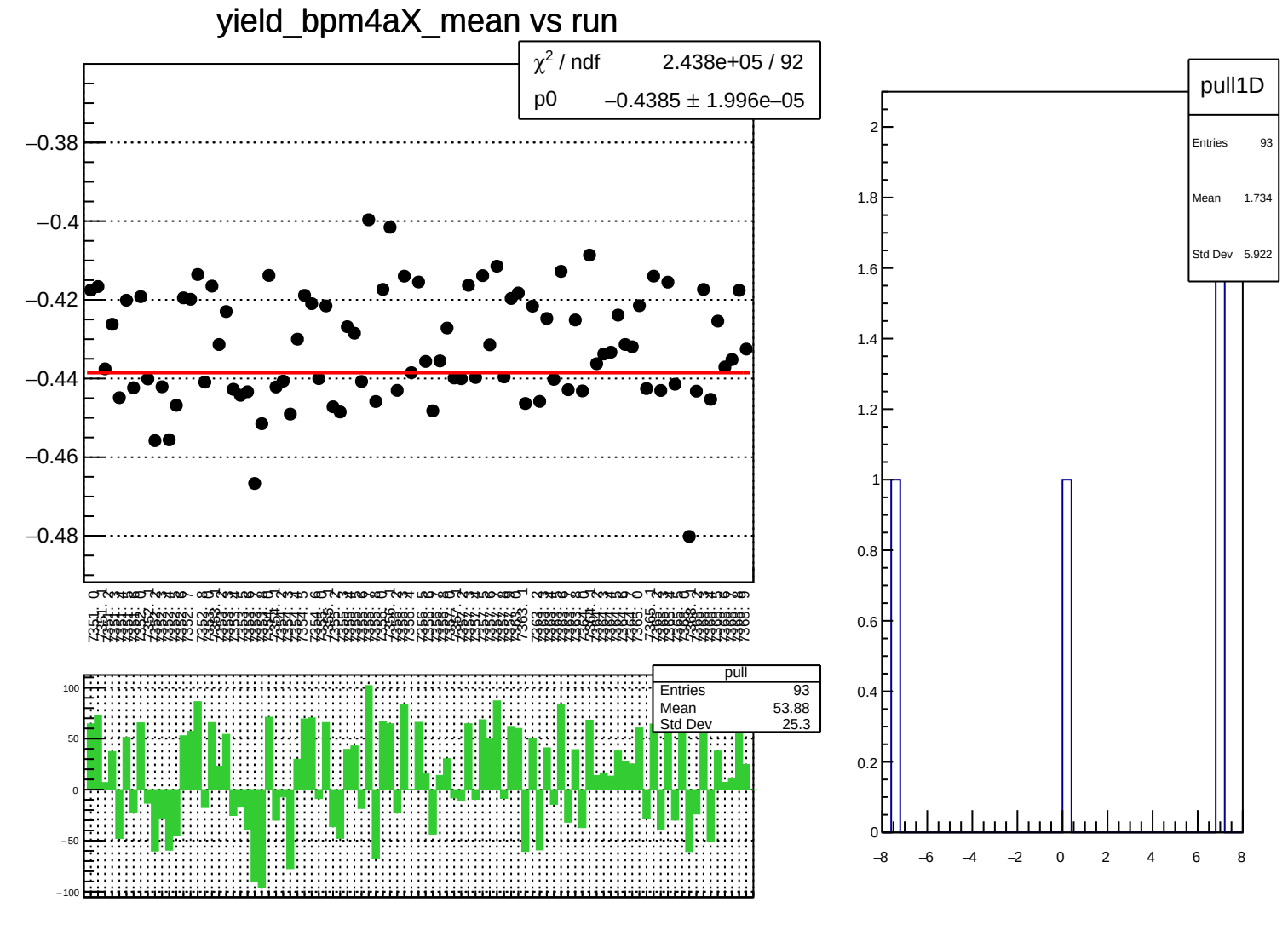

pull1D
Entries 93
Mean 0.1929
Std Dev 3.22

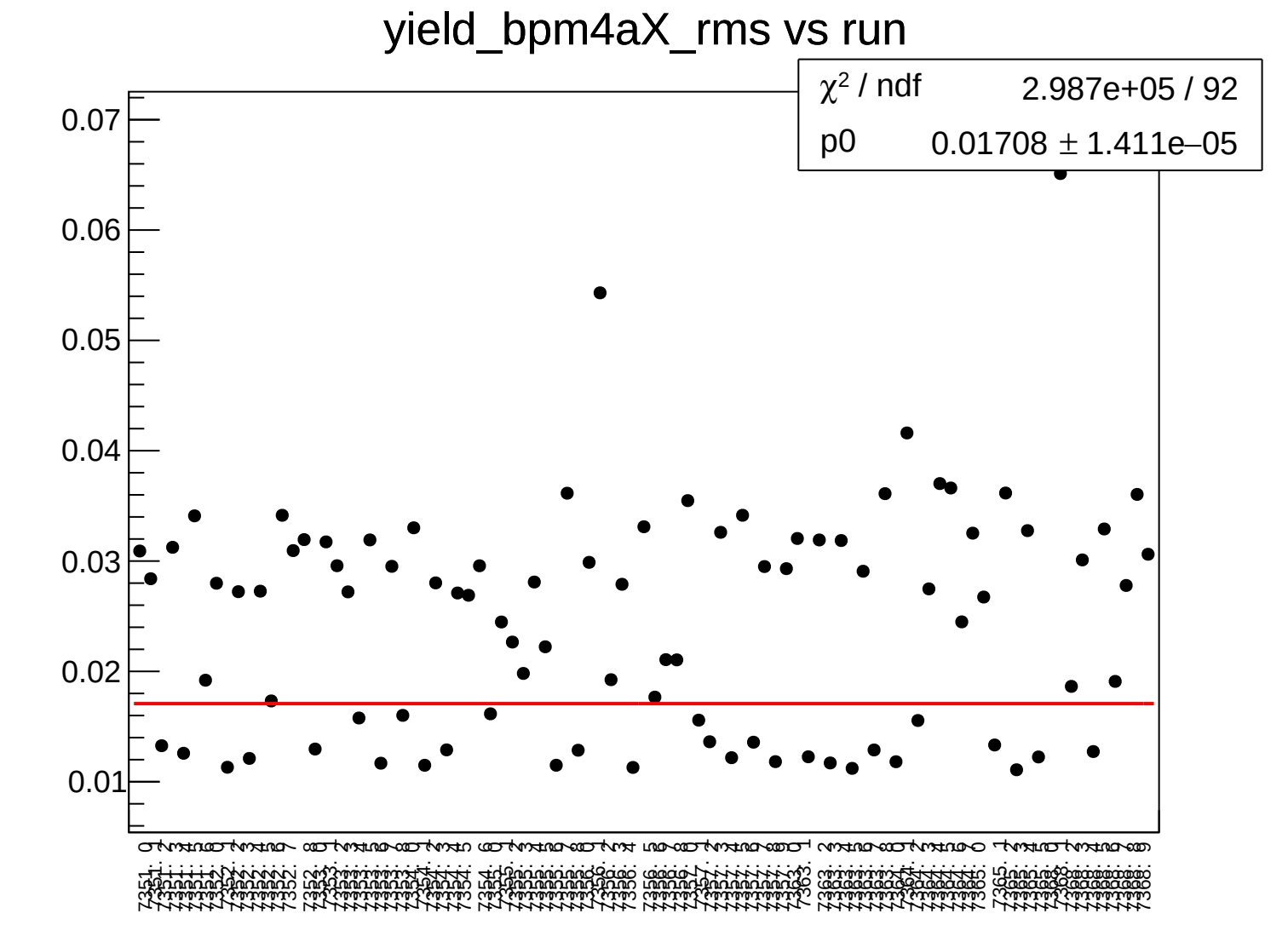

yield_cav4dX_rms vs run
χ² / ndf 2.336e+05 / 92
p0 0.008504 ± 6.875e−06
0.03
0.025
0.02
0.015
0.01
0.005

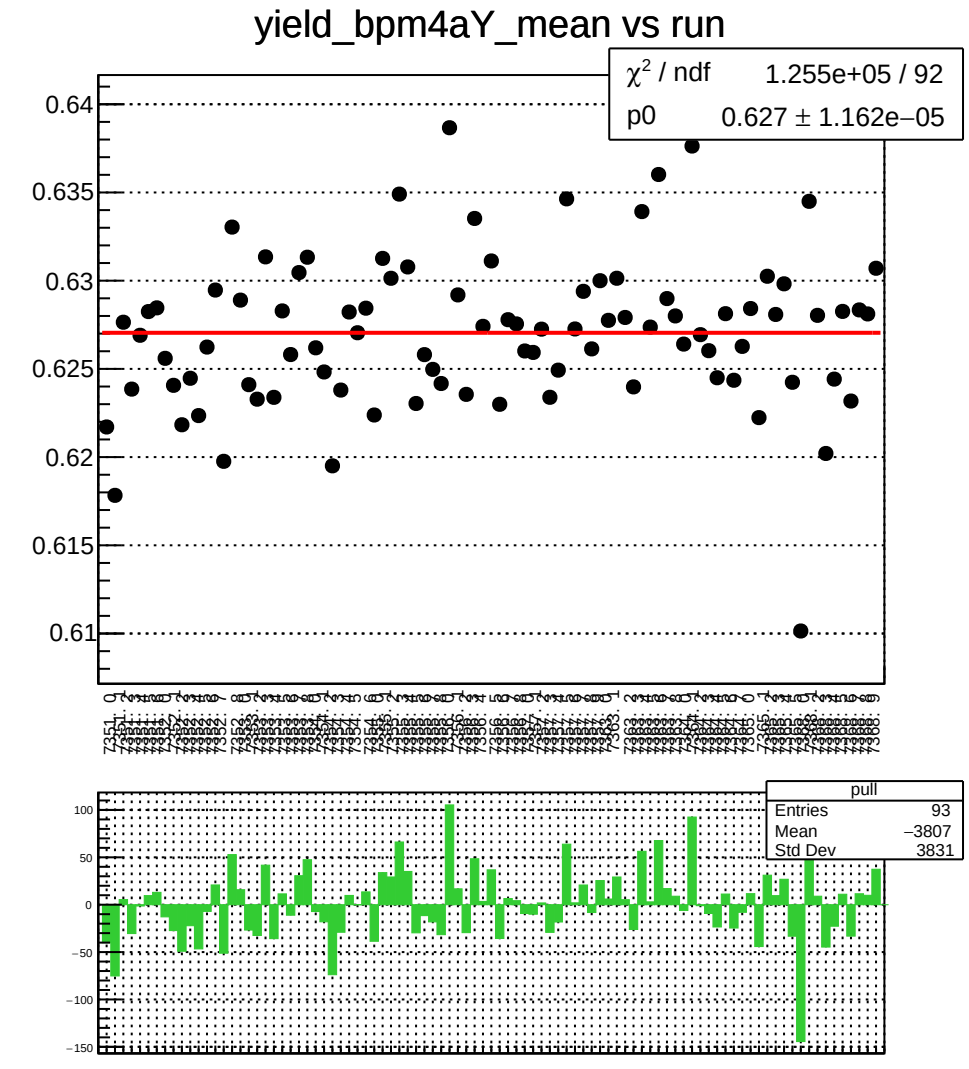

yield_cav4dY_mean vs run
χ² / ndf 3.567e+06 / 92
p0 −0.07888 ± 5.931e−07
−0.077
−0.078
−0.079
−0.08
−0.081
−0.082
pull
Entries 93
Mean −456.8
Std Dev 483.8
400
300
200
100
0
−100
−200
−300
−400
−500

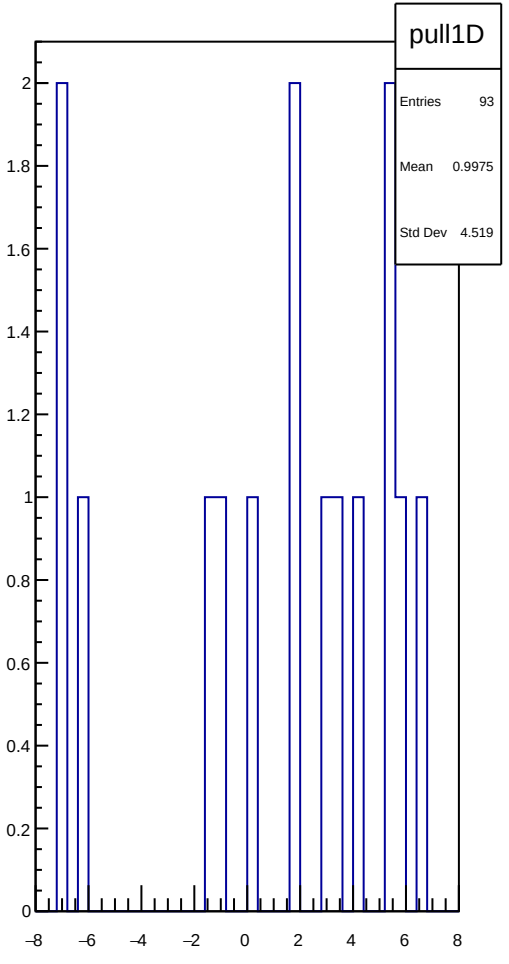

pull1D
Entries 93
Mean 0.3708
Std Dev 3.957
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

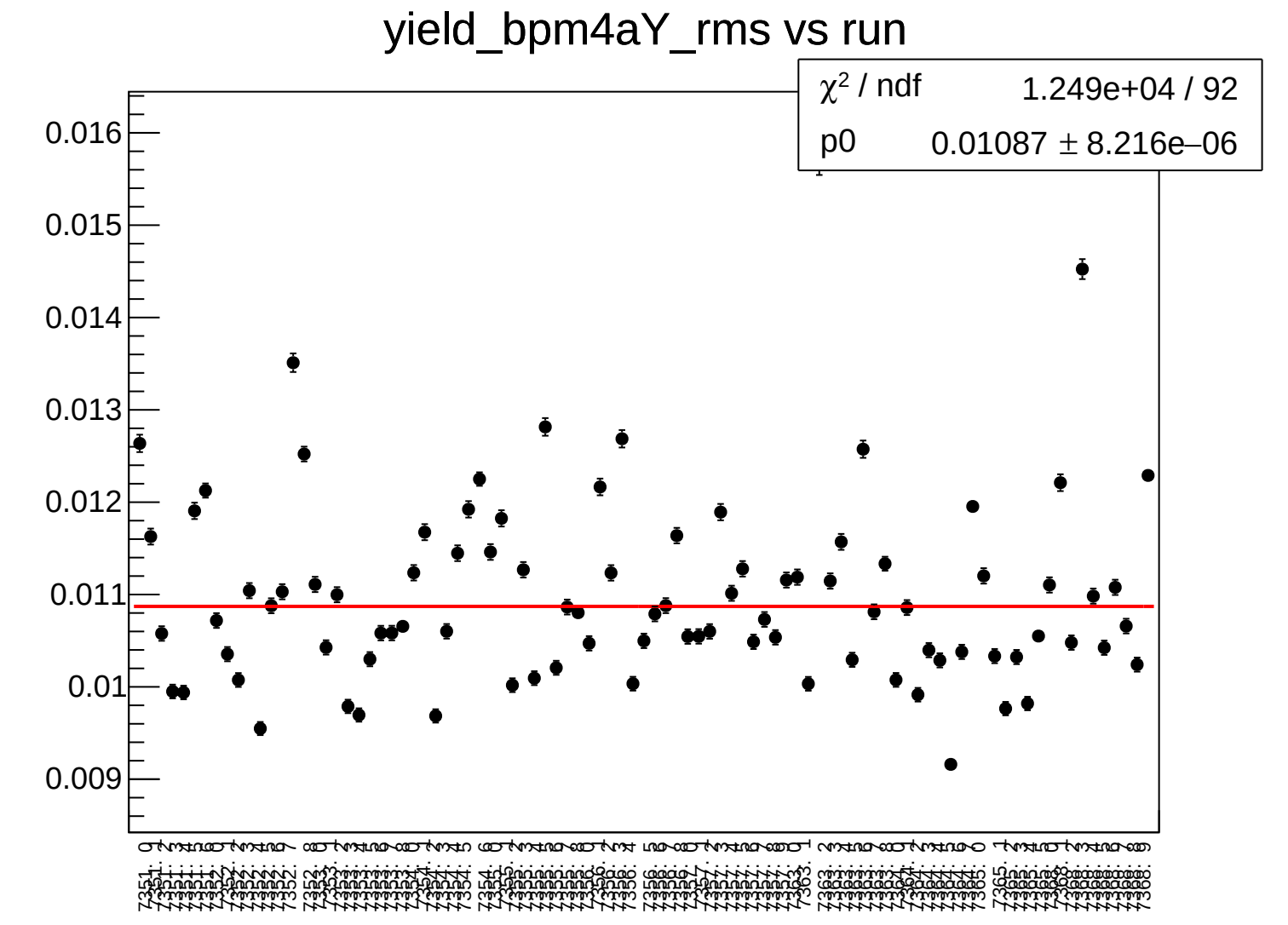

yield_cav4dY_rms vs run
χ² / ndf 5.338e+04 / 92
p0 0.0005484 ± 4.194e−07
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

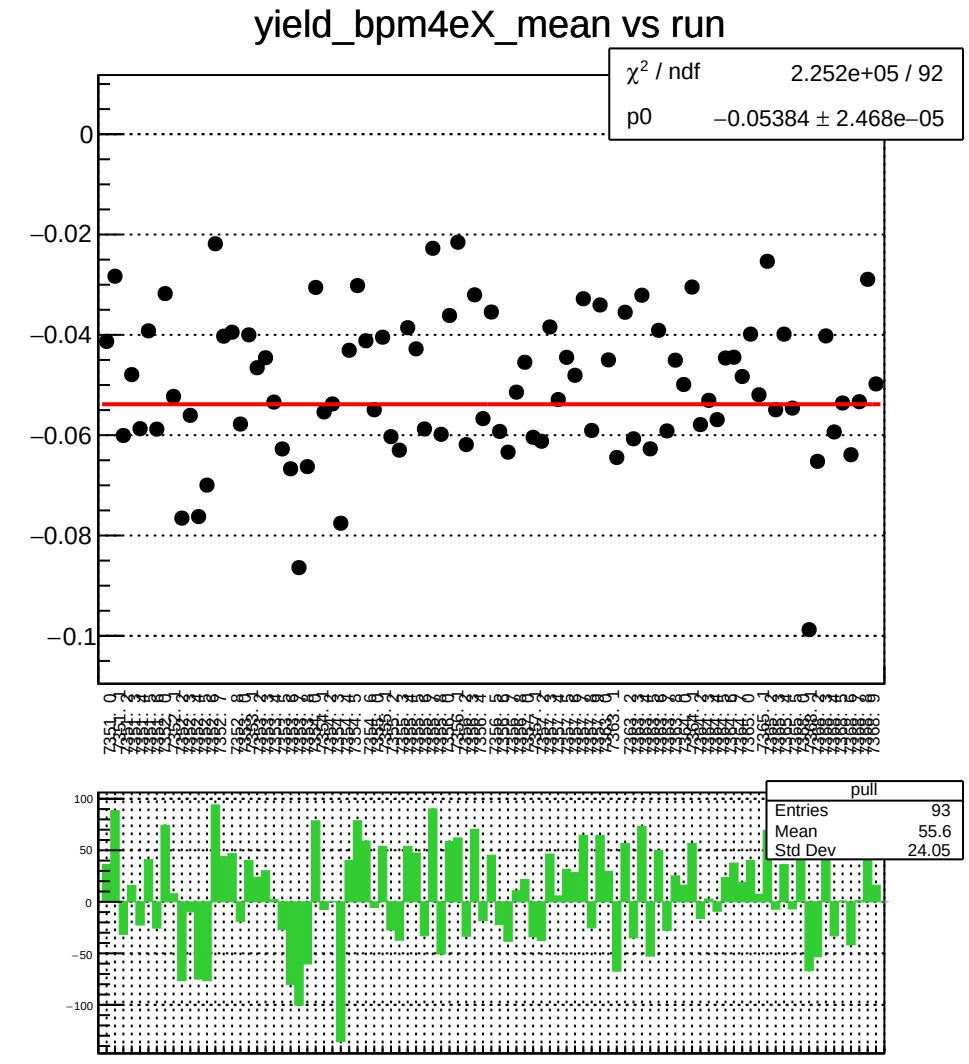

yield_bpm4aX_mean vs run
χ² / ndf 2.438e+05 / 92
p0 −0.4385 ± 1.996e−05
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
pull
Entries 93
Mean 53.88
Std Dev 25.3
100
50
0
−50
−100
pull1D
Entries 93
Mean 1.734
Std Dev 5.922
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

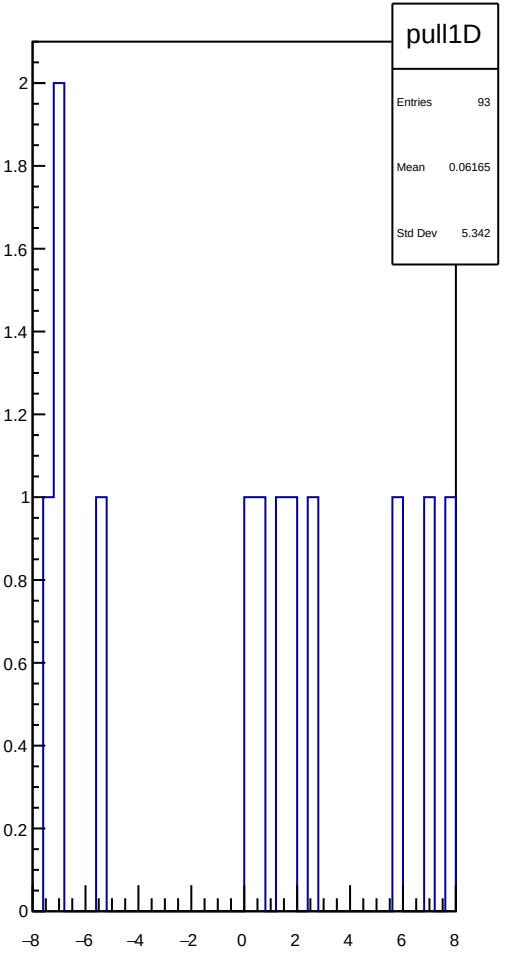

yield_bpm4aX_rms vs run
χ² / ndf 2.987e+05 / 92
p0 0.01708 ± 1.411e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

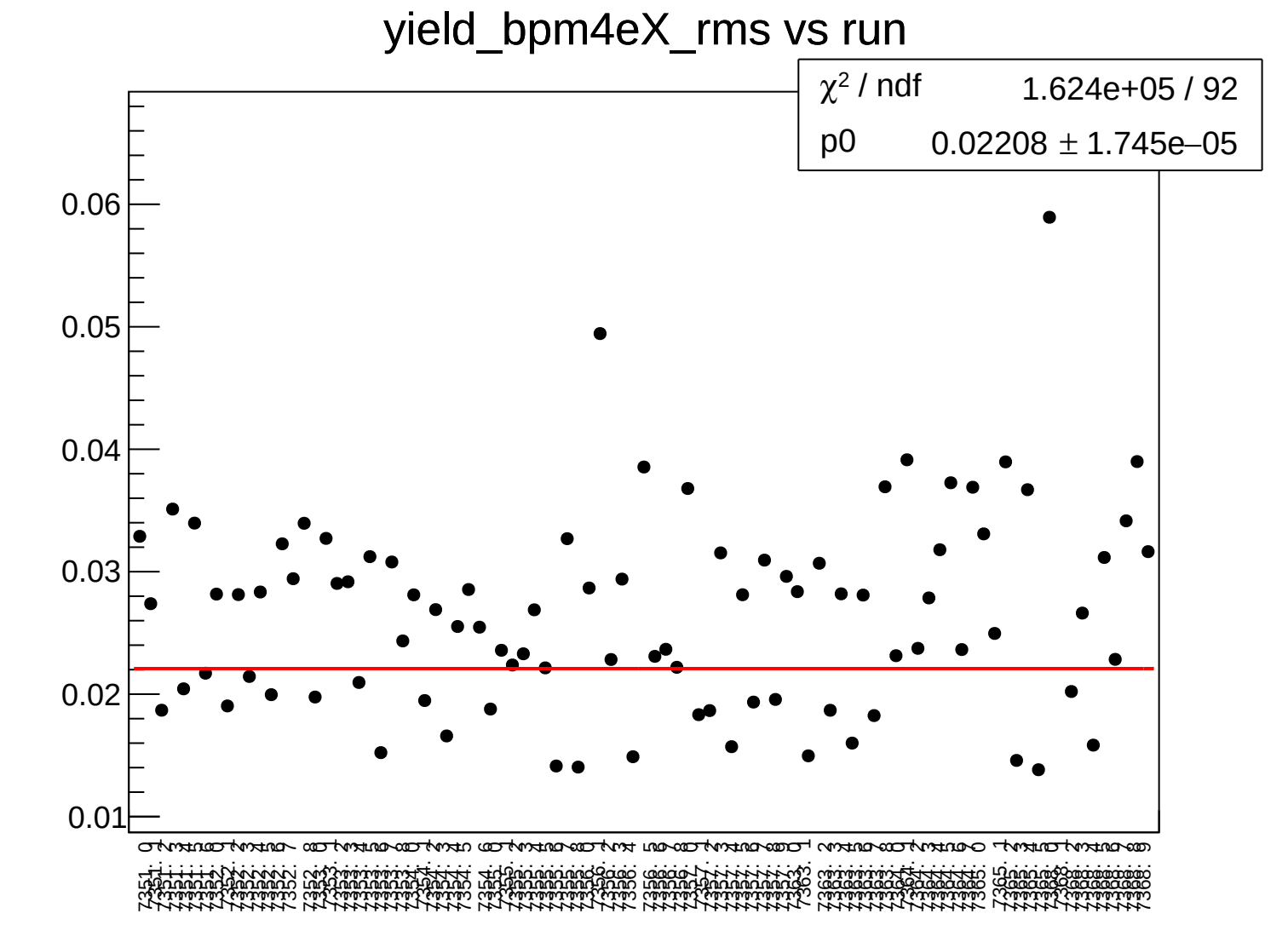

yield_bpm4aY_mean vs run
χ² / ndf 1.255e+05 / 92
p0 0.627 ± 1.162e−05
0.64
0.635
0.63
0.625
0.62
0.615
0.61
pull
Entries 93
Mean −3807
Std Dev 3831
100
50
0
−50
−100
−150

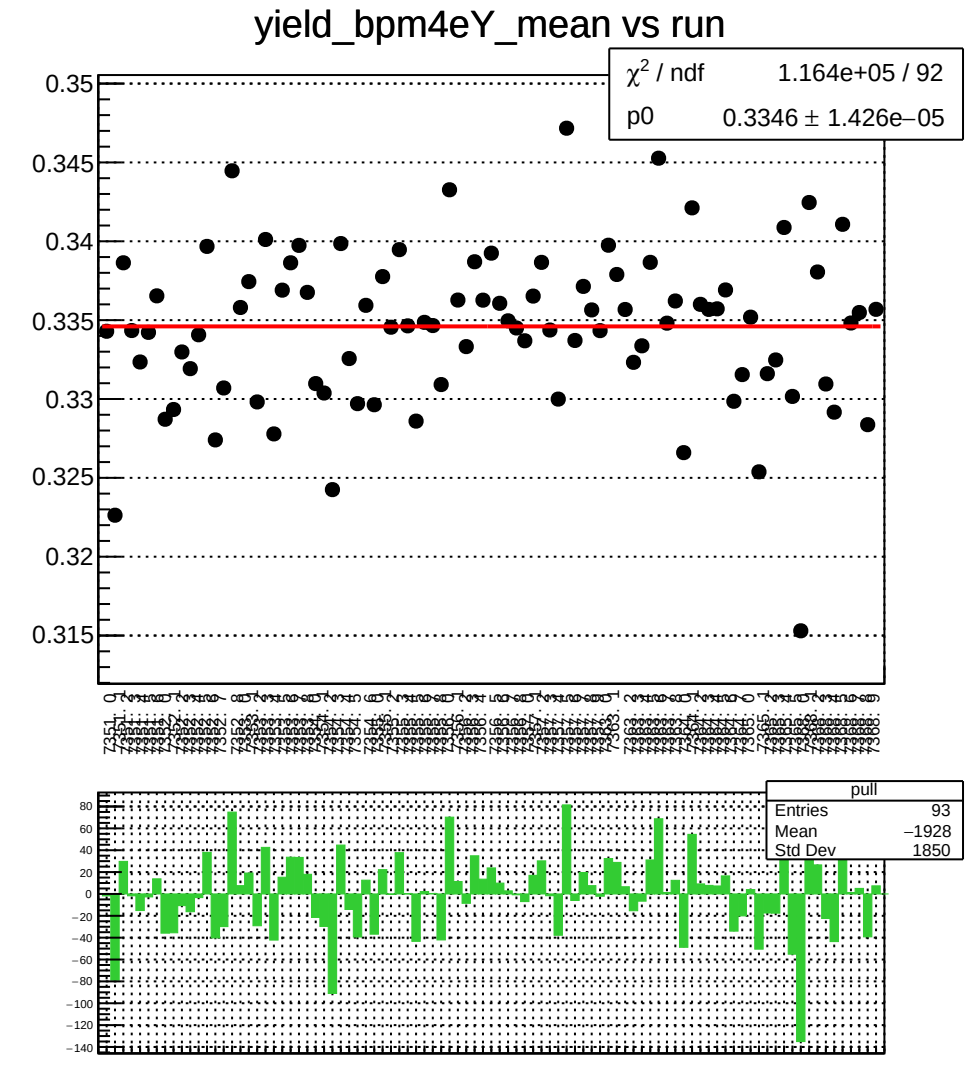

pull1D
Entries 93
Mean 0.9975
Std Dev 4.519
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

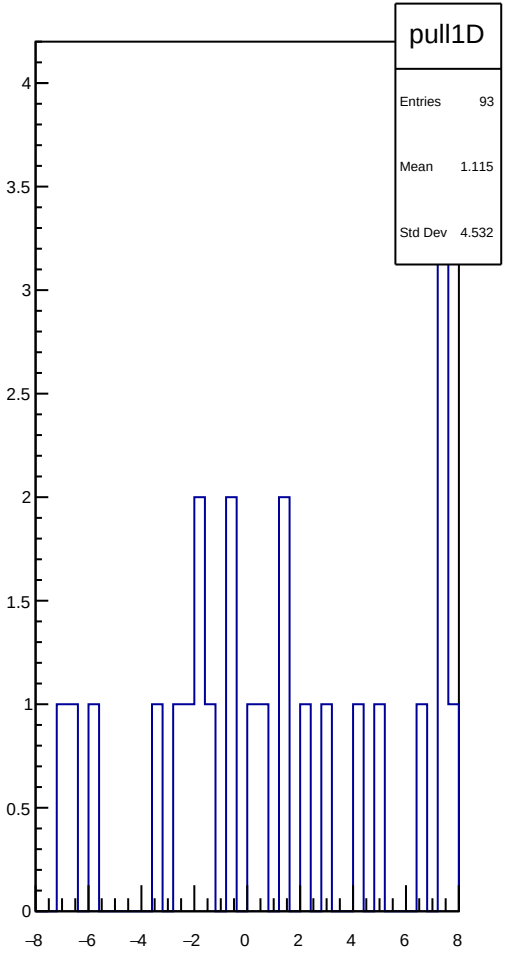

yield_bpm4aY_rms vs run
χ² / ndf 1.249e+04 / 92
p0 0.01087 ± 8.216e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

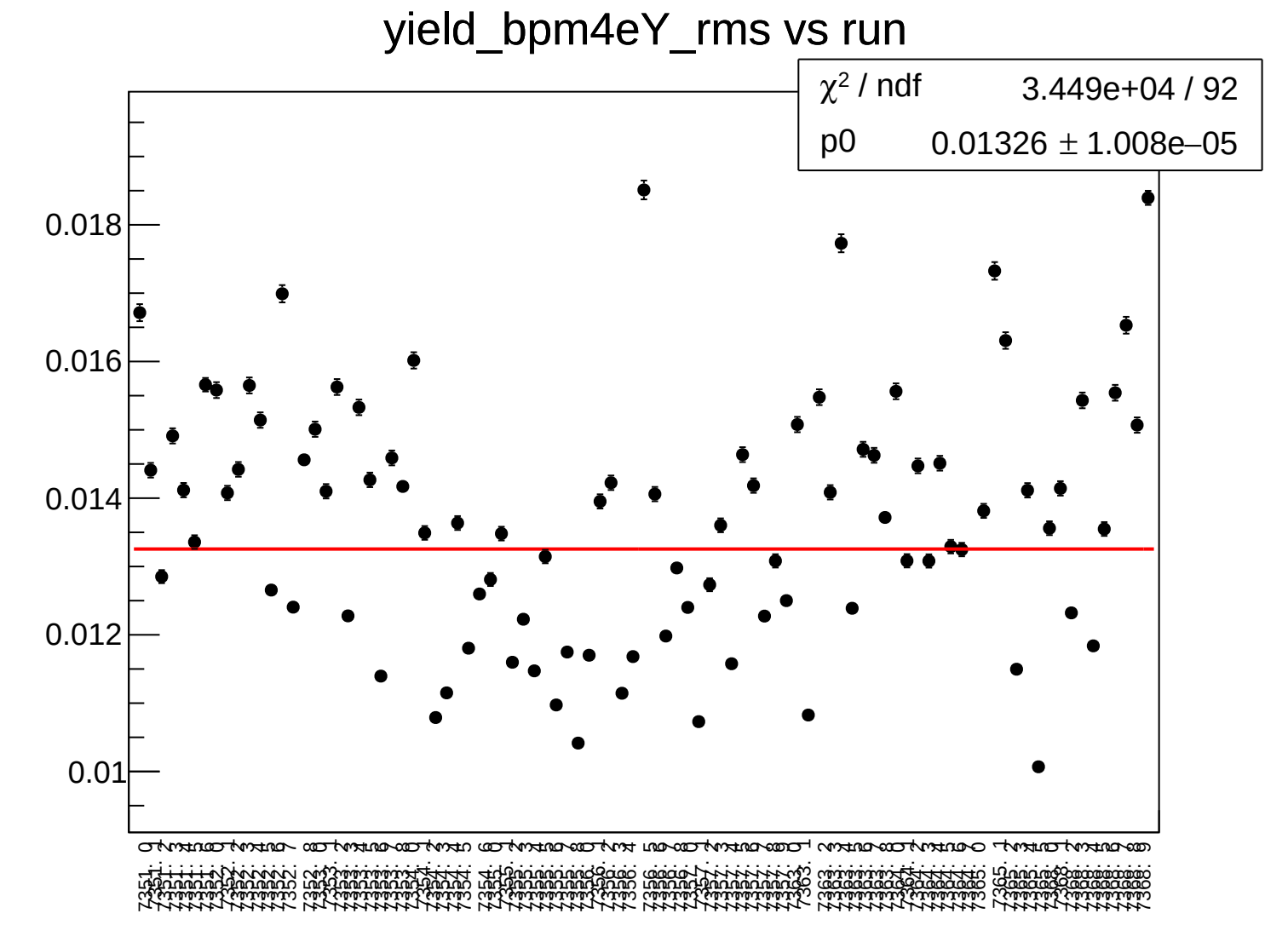

yield_bpm4eX_mean vs run
χ² / ndf 2.252e+05 / 92
p0 −0.05384 ± 2.468e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 93
Mean 55.6
Std Dev 24.05
100
50
0
−50
−100

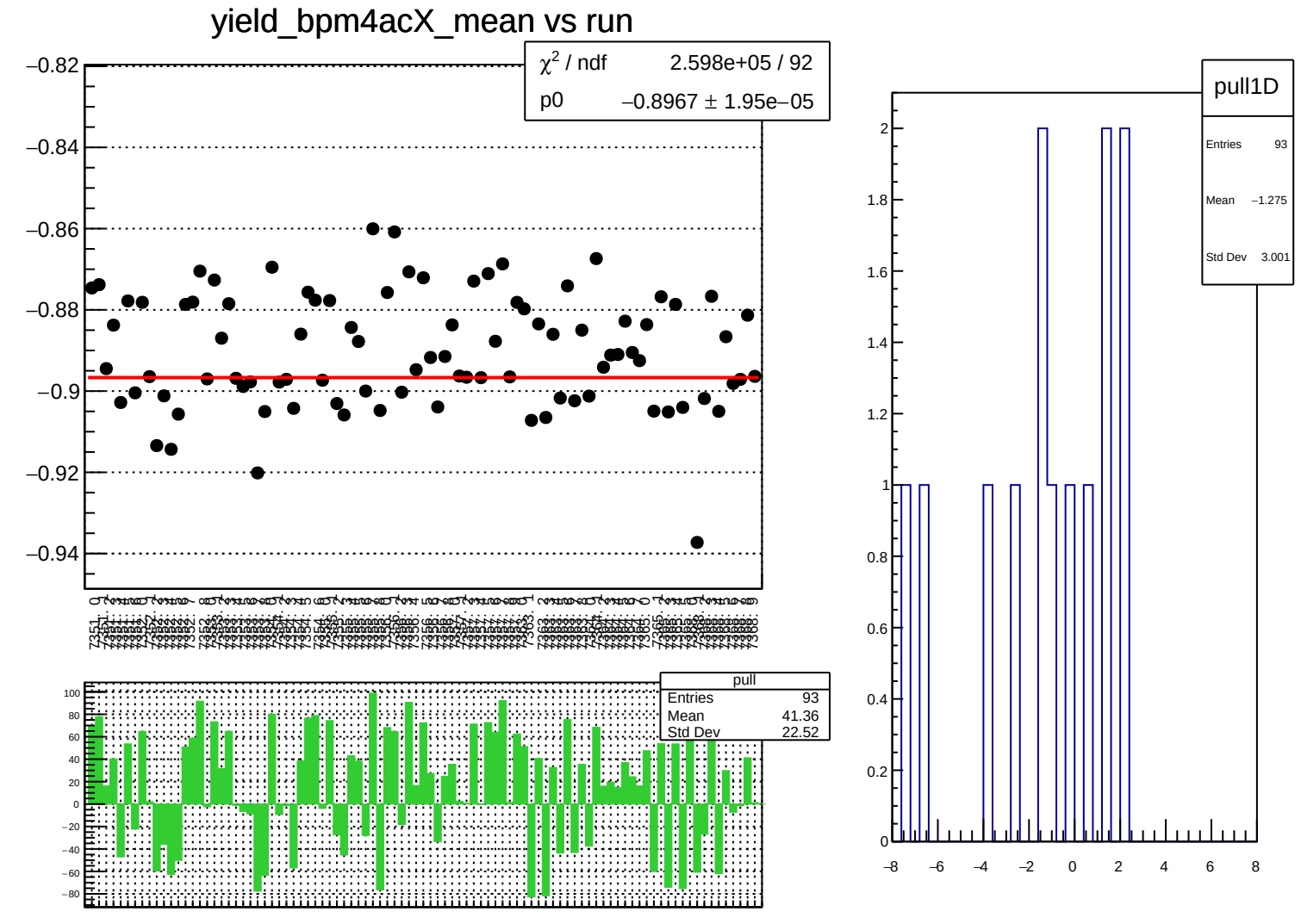

pull1D
Entries 93
Mean 0.06165
Std Dev 5.342
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

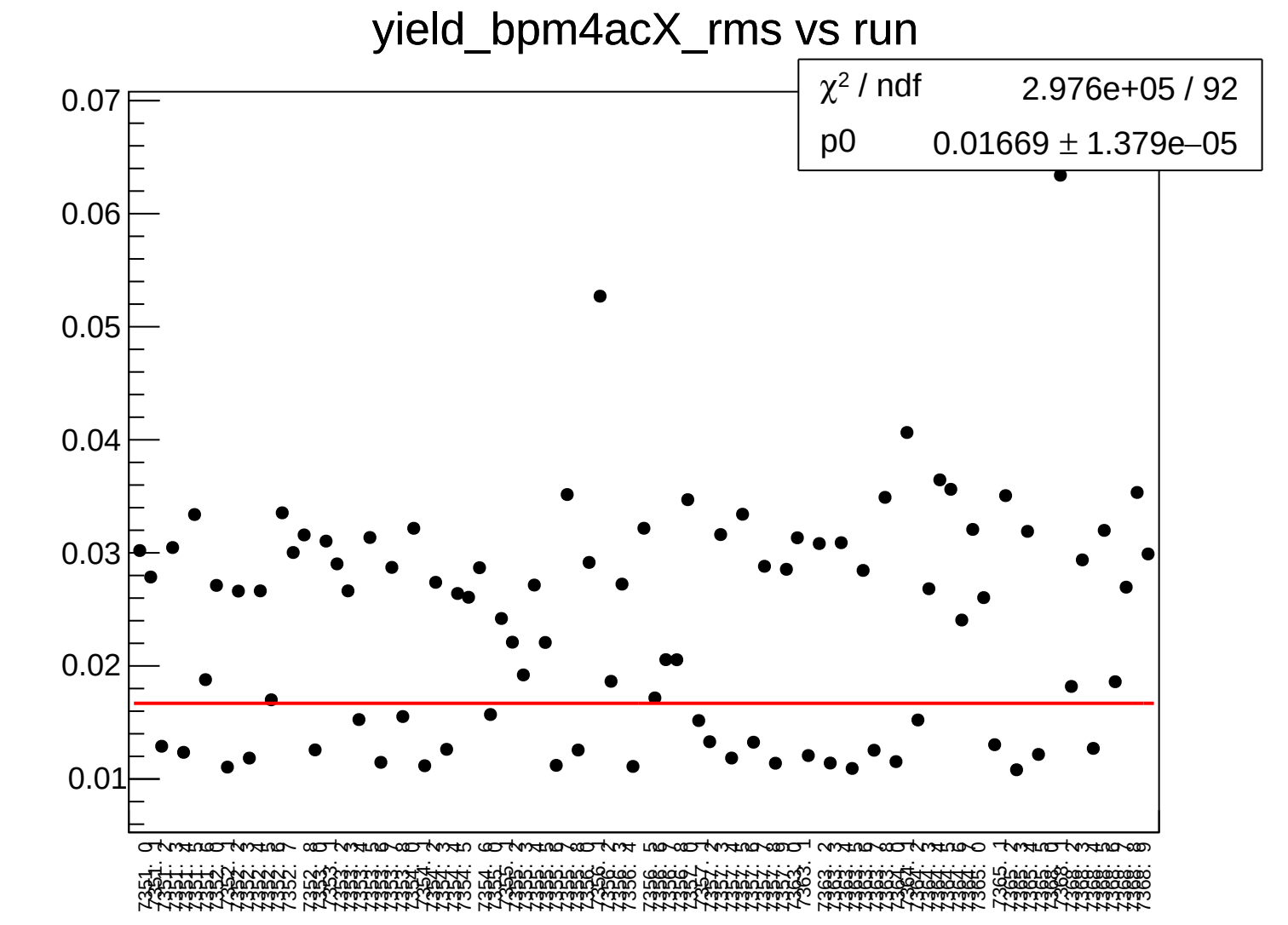

yield_bpm4eX_rms vs run
χ² / ndf 1.624e+05 / 92
p0 0.02208 ± 1.745e–05
0.06
0.05
0.04
0.03
0.02
0.01

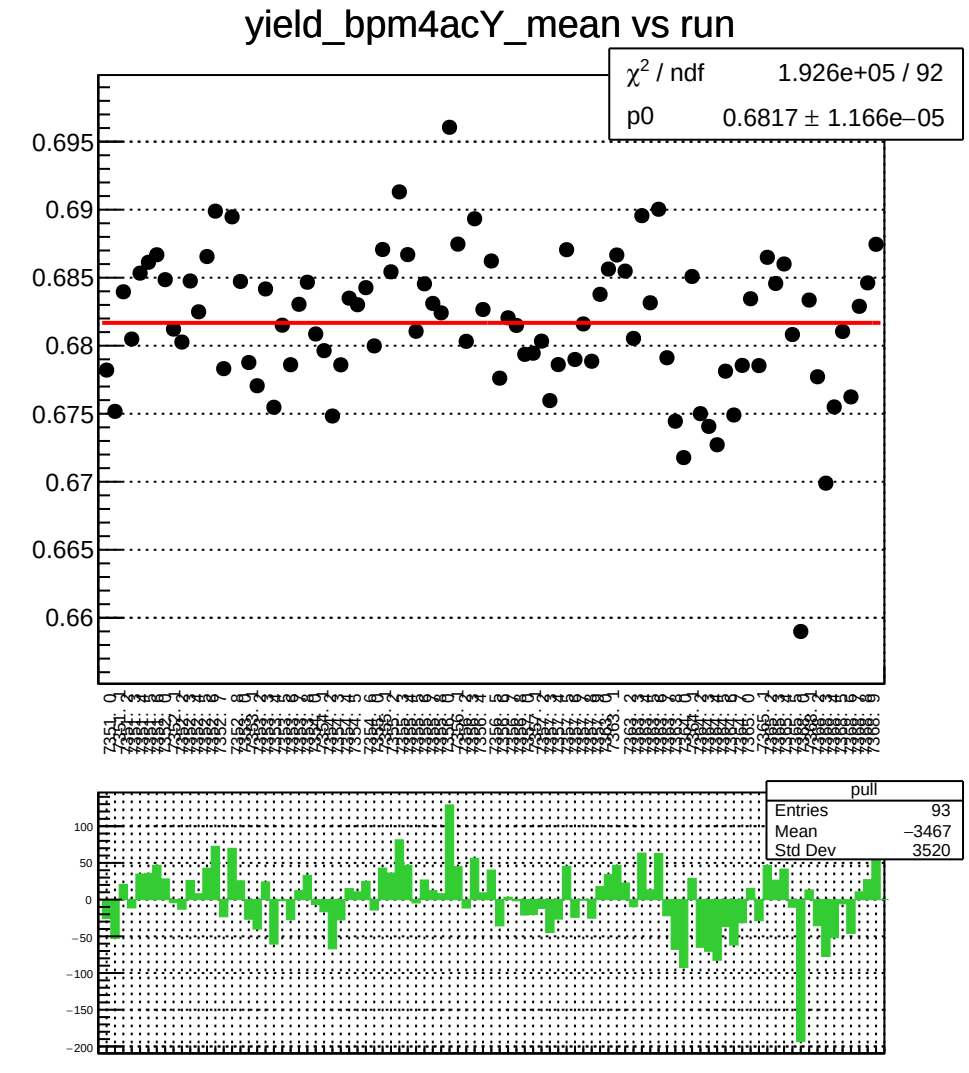

yield_bpm4eY_mean vs run
χ² / ndf 1.164e+05 / 92
p0 0.3346 ± 1.426e−05
pull
Entries 93
Mean −1928
Std Dev 1850

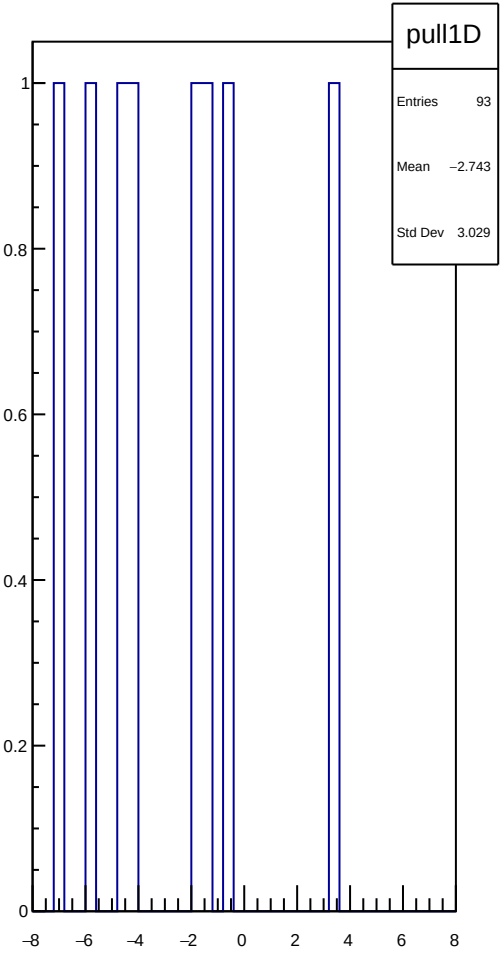

pull1D
Entries 93
Mean 1.115
Std Dev 4.532

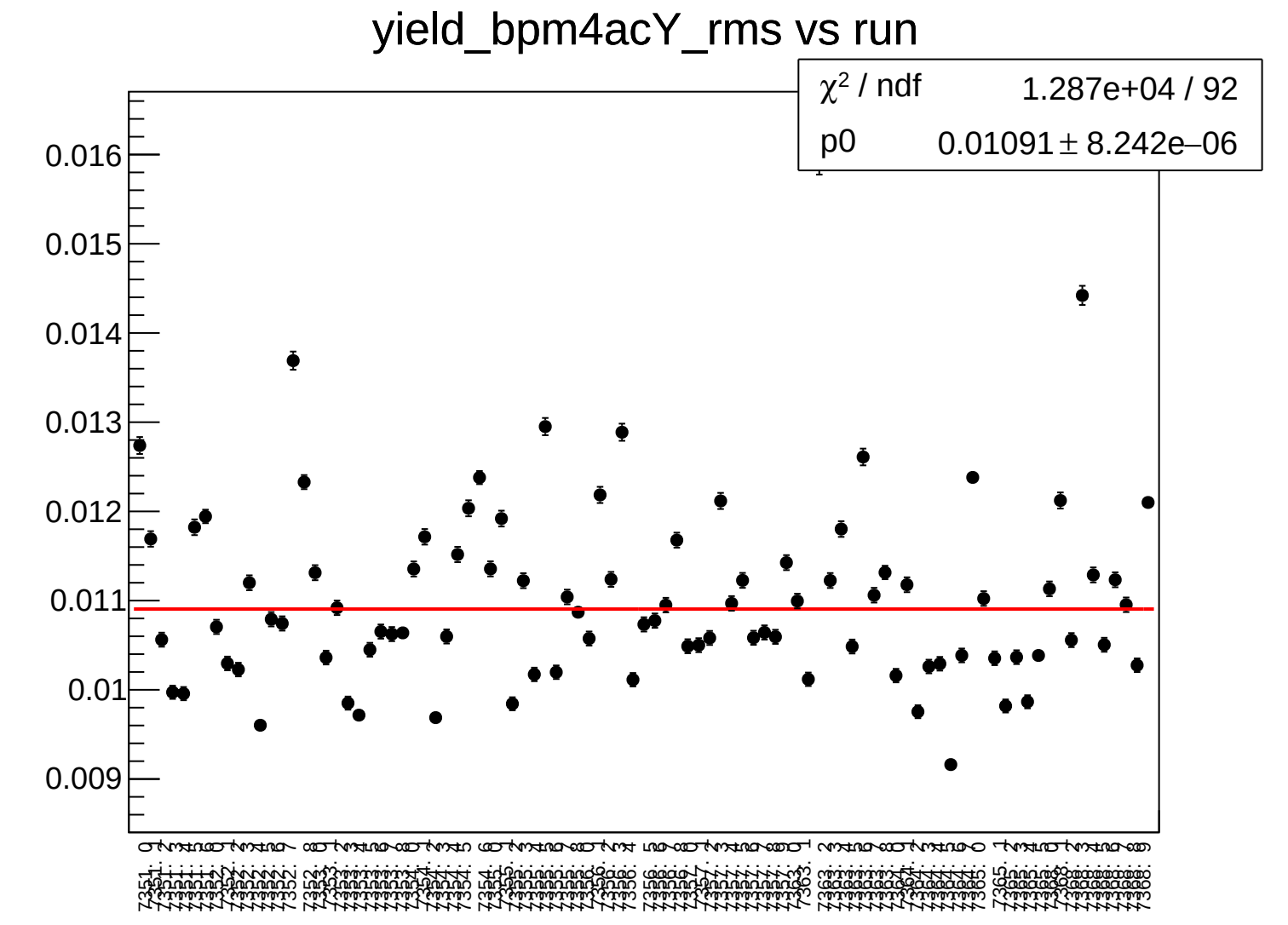

yield_bpm4eY_rms vs run
χ² / ndf 3.449e+04 / 92
p0 0.01326 ± 1.008e–05
0.018
0.016
0.014
0.012
0.01

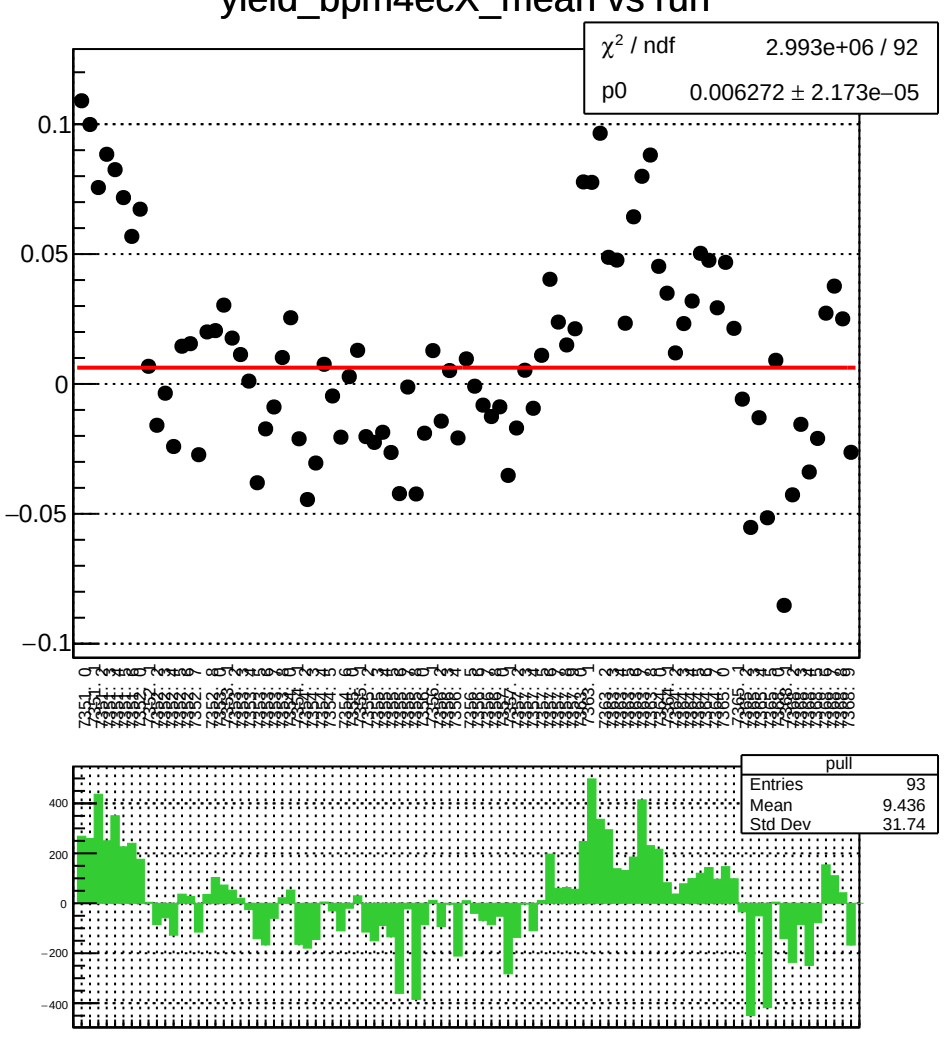

yield_bpm4acX_mean vs run
χ² / ndf 2.598e+05 / 92
p0 −0.8967 ± 1.95e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 93
Mean 41.36
Std Dev 22.52
100
80
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 93
Mean −1.275
Std Dev 3.001
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

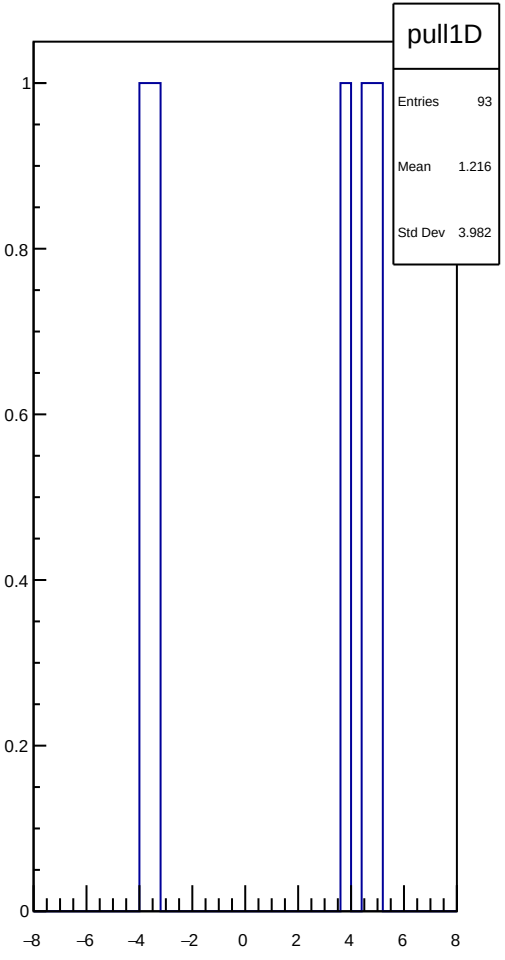

yield_bpm4acX_rms vs run
χ² / ndf 2.976e+05 / 92
p0 0.01669 ± 1.379e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

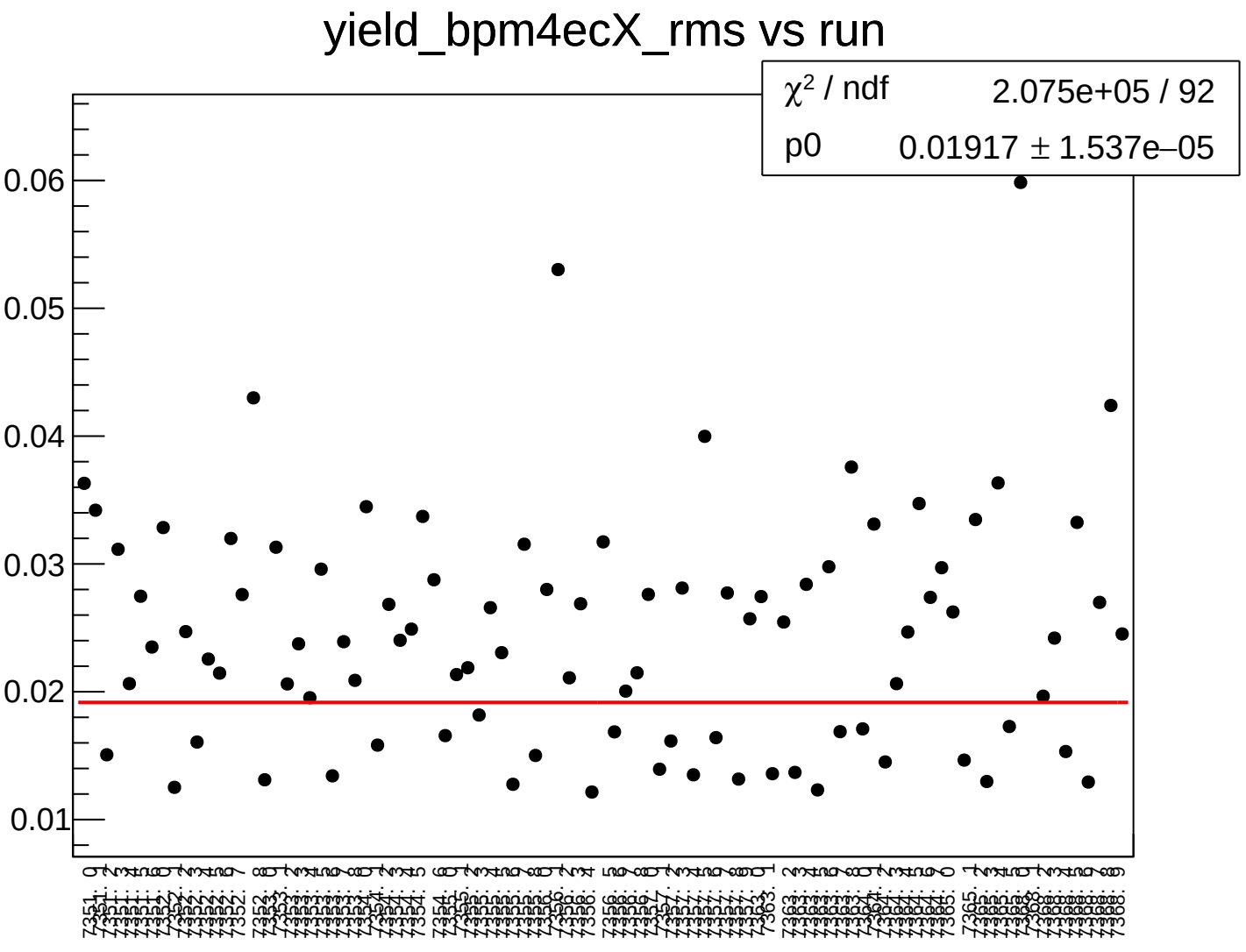

yield_bpm4acY_mean vs run
χ² / ndf 1.926e+05 / 92
p0 0.6817 ± 1.166e−05
0.695
0.69
0.685
0.68
0.675
0.67
0.665
0.66
pull
Entries 93
Mean −3467
Std Dev 3520
100
50
0
−50
−100
−150
−200

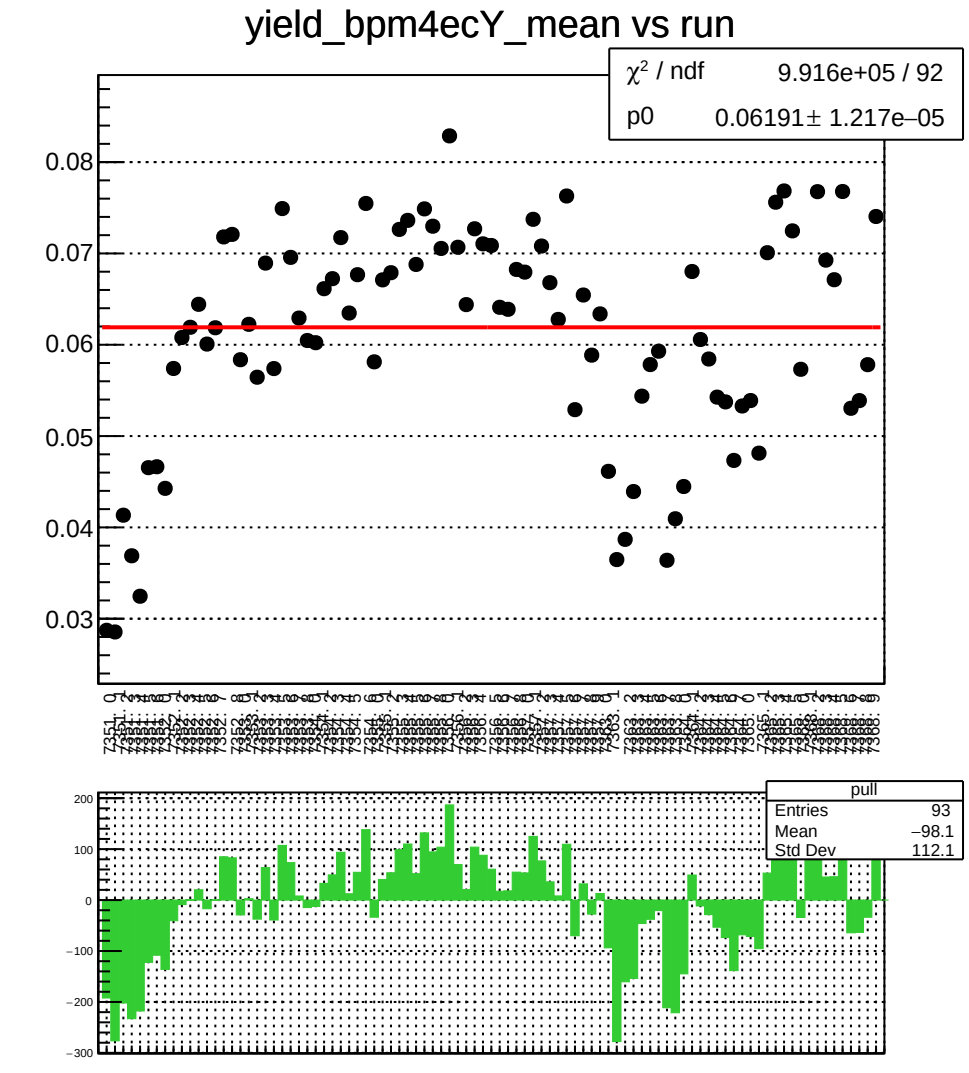

pull1D
Entries 93
Mean −2.743
Std Dev 3.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

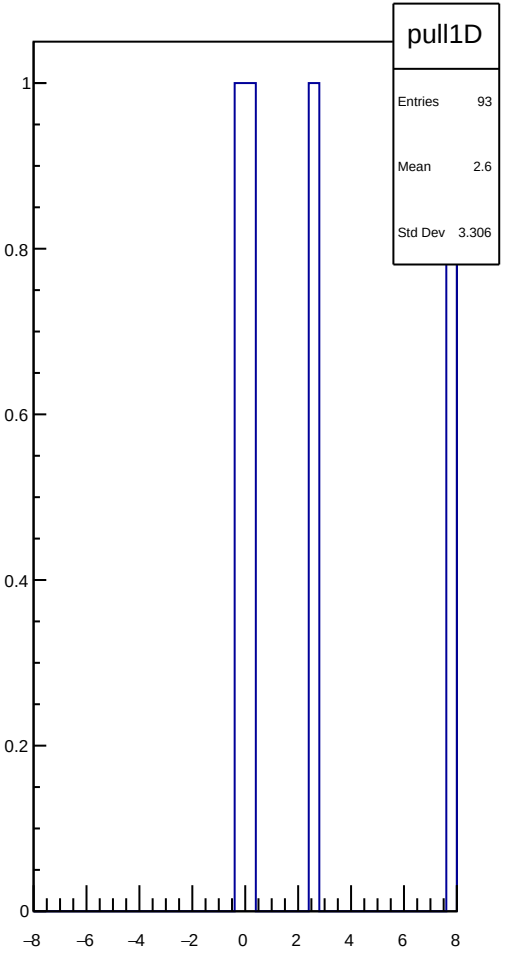

yield_bpm4acY_rms vs run
χ² / ndf 1.287e+04 / 92
p0 0.01091 ± 8.242e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

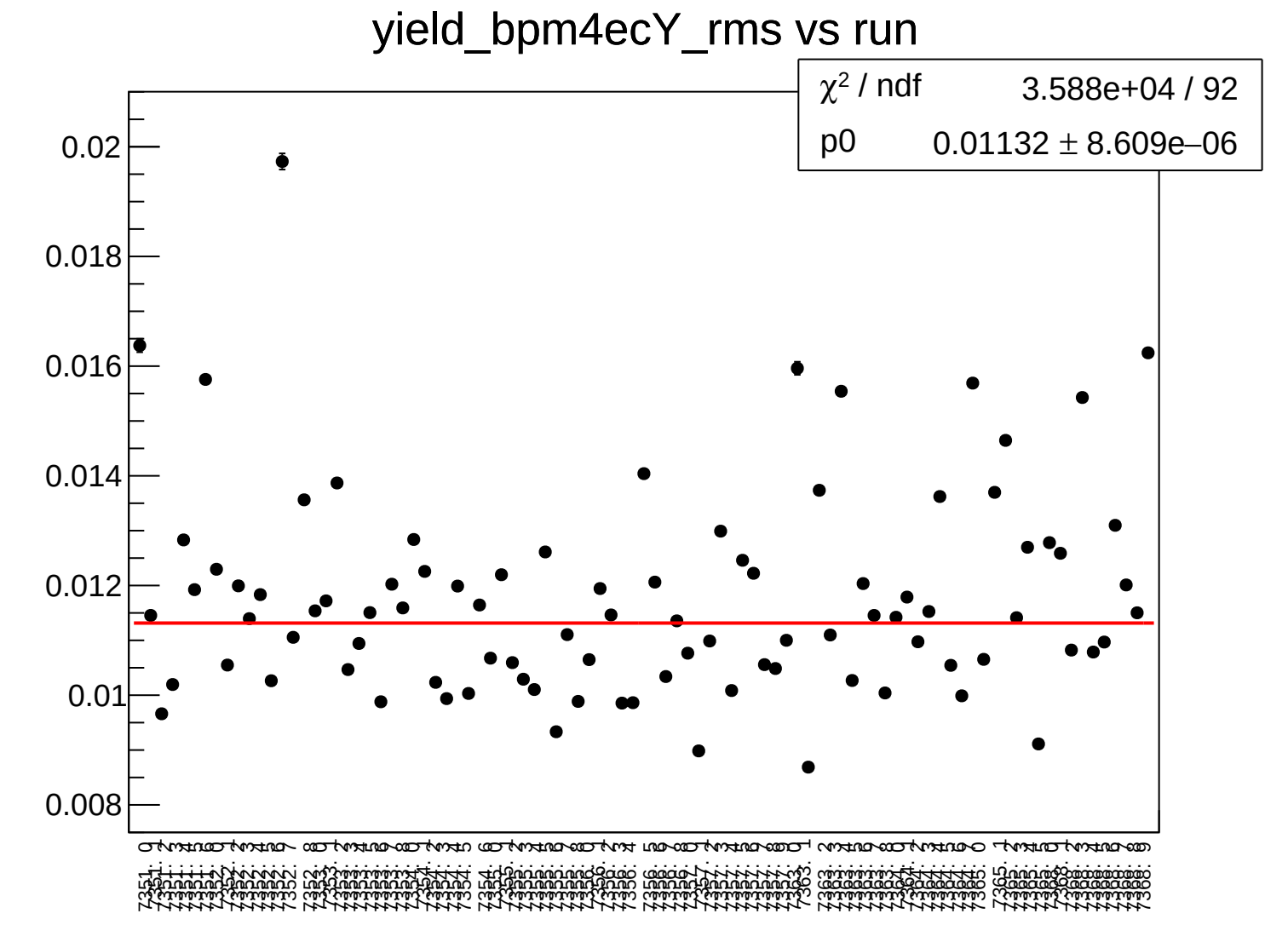

yield_bpm4ecX_mean vs run
χ² / ndf 2.993e+06 / 92
p0 0.006272 ± 2.173e−05
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean 9.436
Std Dev 31.74
400
200
0
−200
−400

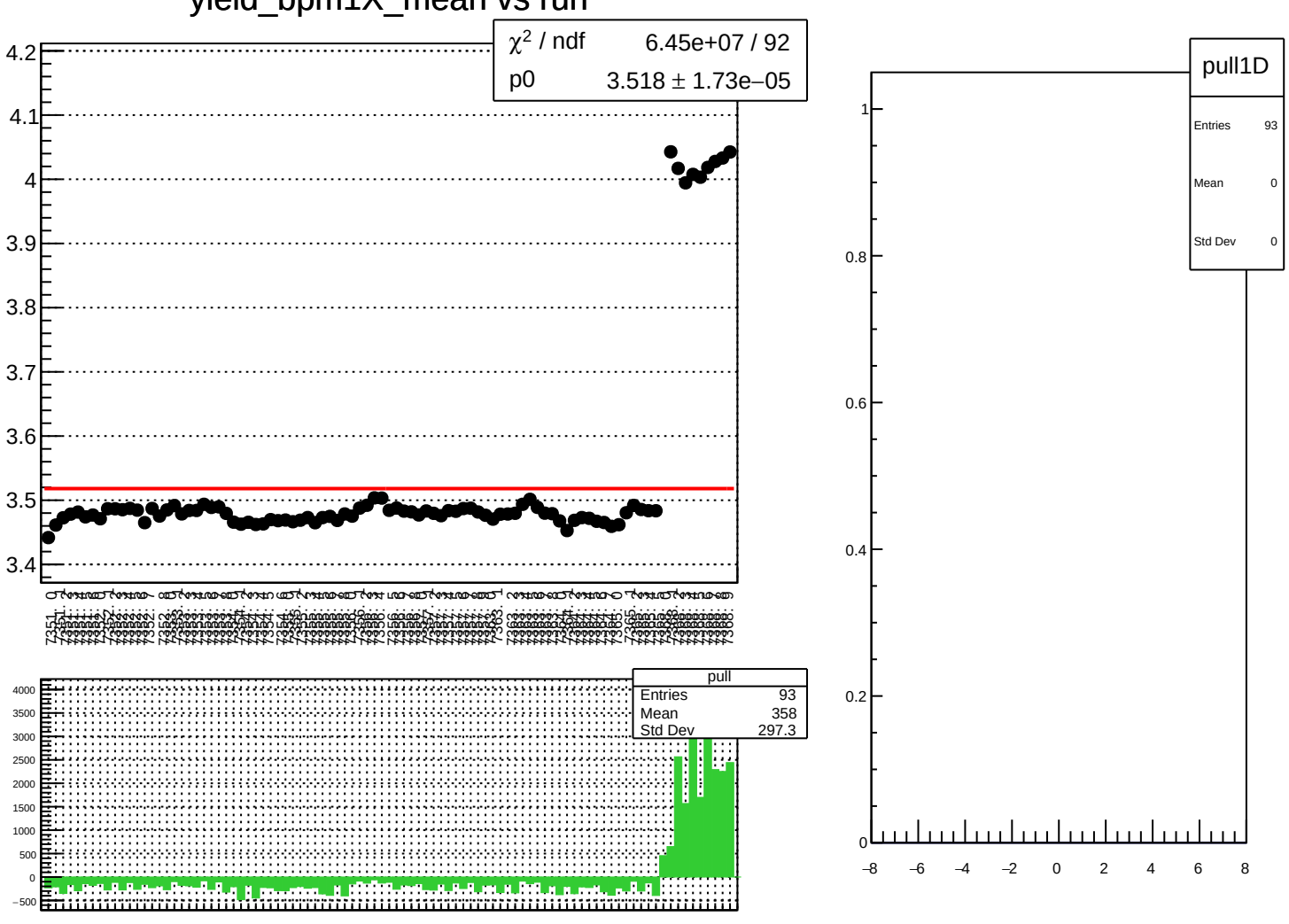

pull1D
Entries 93
Mean 1.216
Std Dev 3.982
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

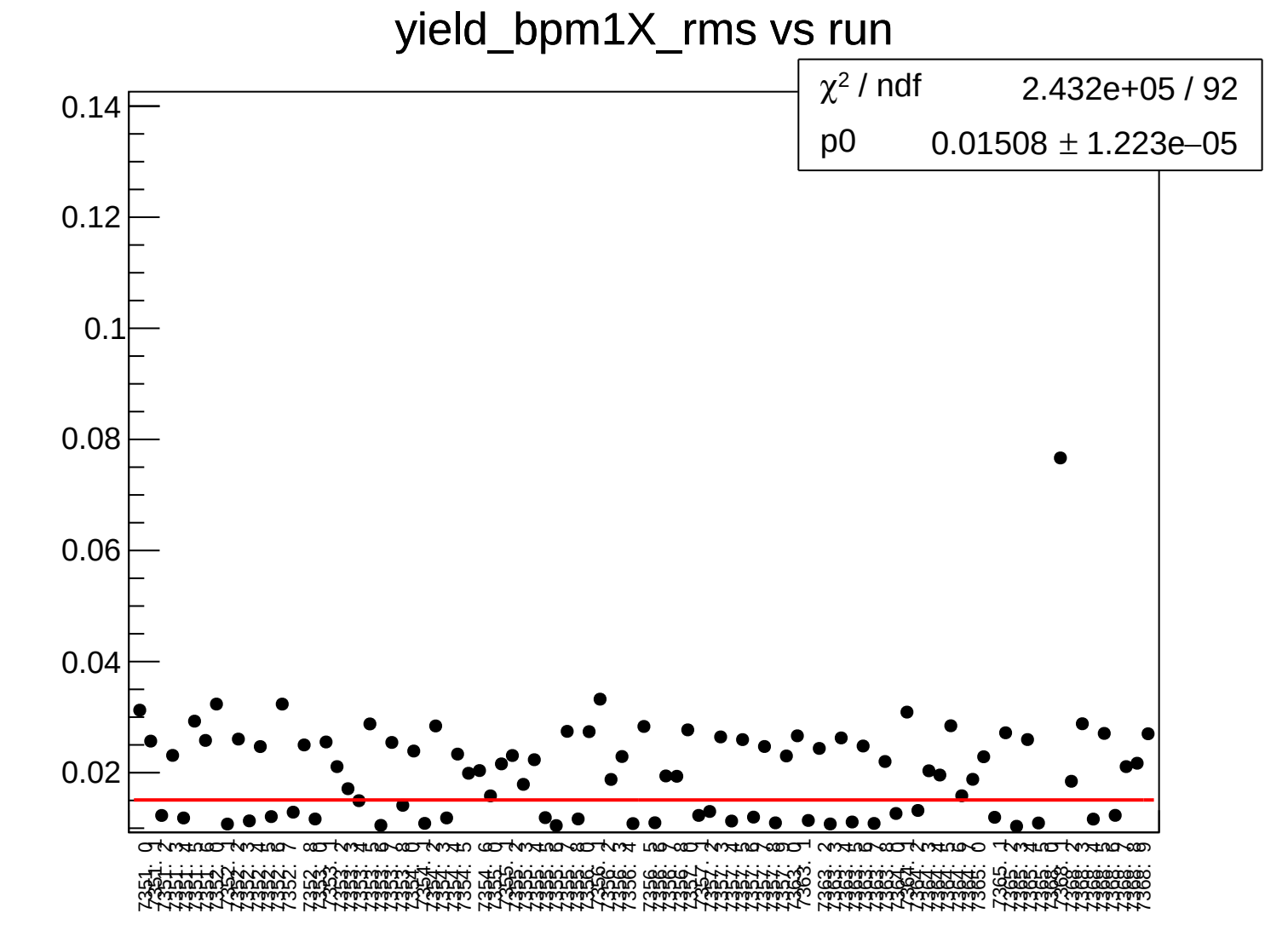

yield_bpm4ecX_rms vs run
χ² / ndf 2.075e+05 / 92
p0 0.01917 ± 1.537e–05
0.06
0.05
0.04
0.03
0.02
0.01

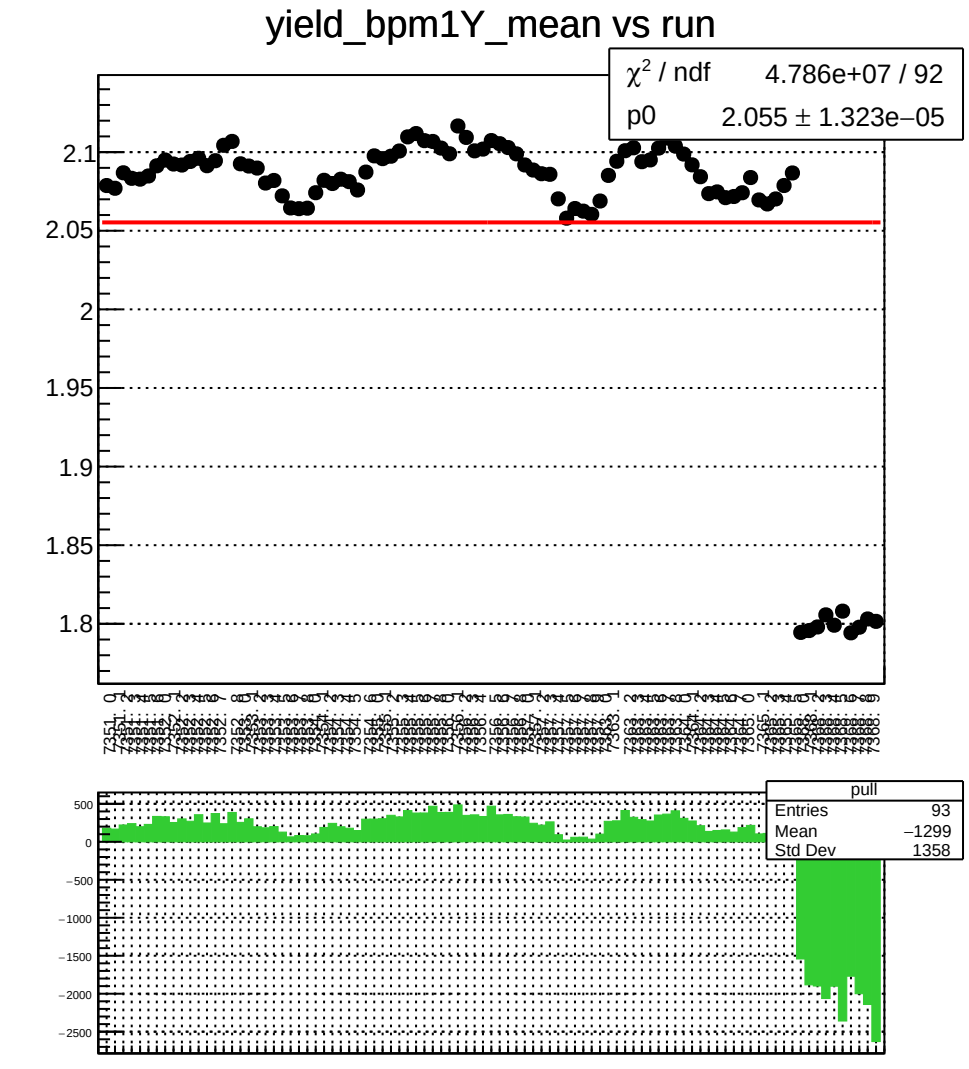

yield_bpm4ecY_mean vs run
χ² / ndf 9.916e+05 / 92
p0 0.06191± 1.217e–05
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 93
Mean –98.1
Std Dev 112.1
200
100
0
–100
–200
–300

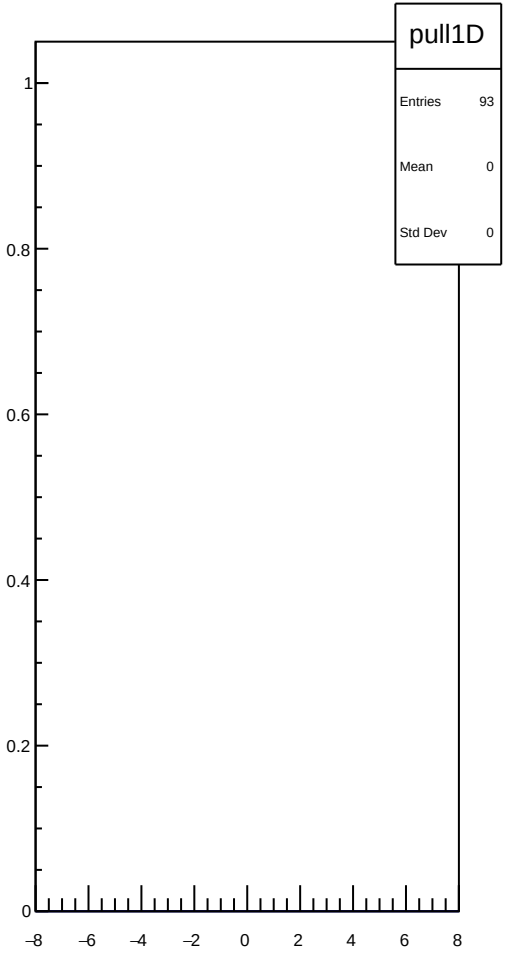

pull1D
Entries 93
Mean 2.6
Std Dev 3.306
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

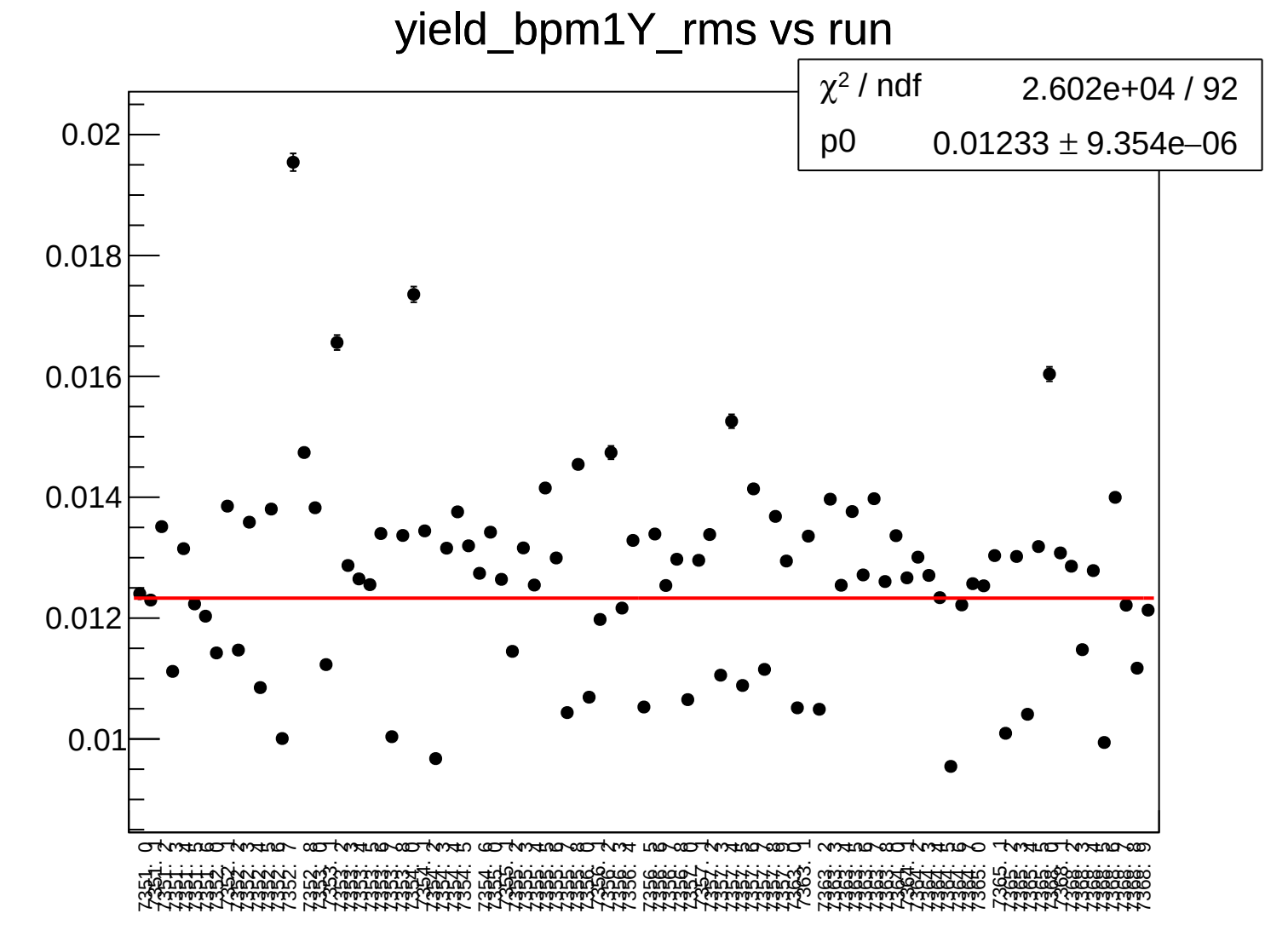

yield_bpm4ecY_rms vs run
χ² / ndf 3.588e+04 / 92
p0 0.01132 ± 8.609e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

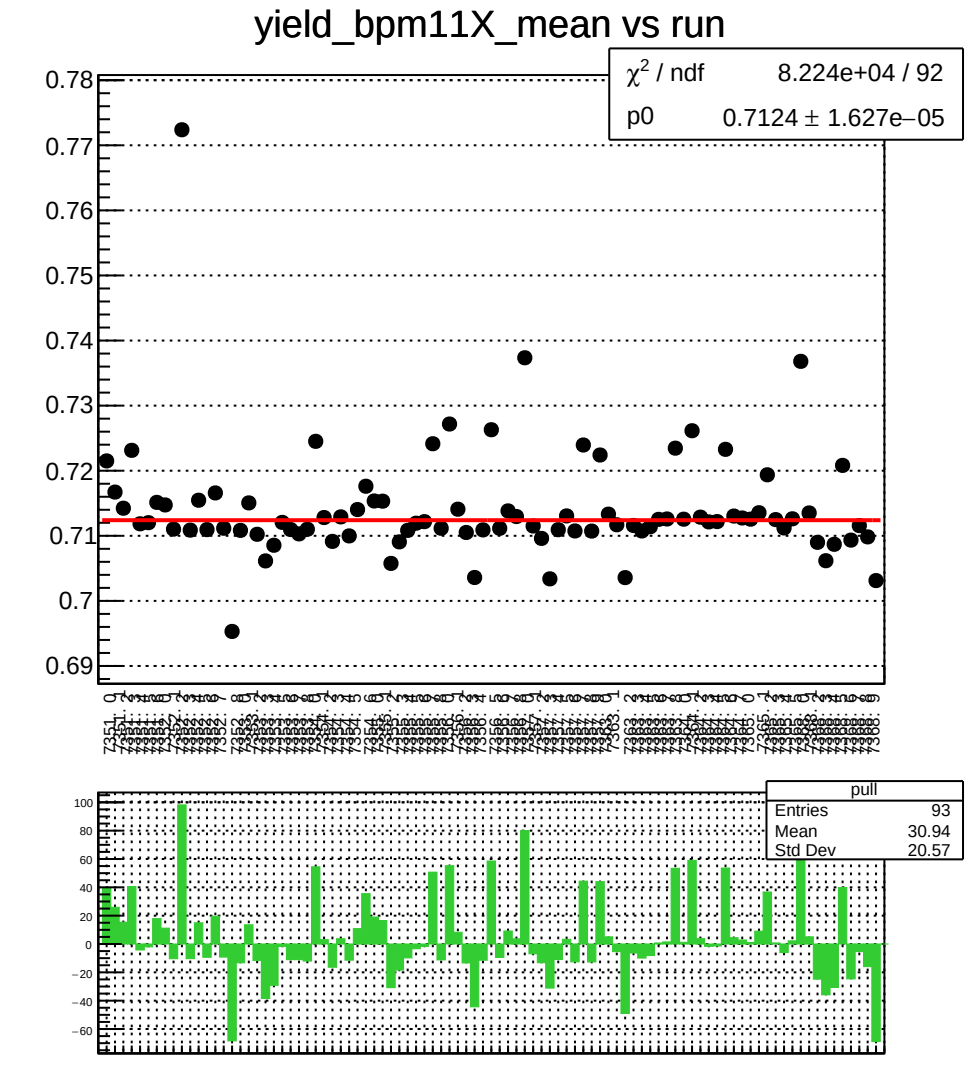

yield_bpm1X_mean vs run
χ² / ndf 6.45e+07 / 92
p0 3.518 ± 1.73e−05
pull
Entries 93
Mean 358
Std Dev 297.3
pull1D
Entries 93
Mean 0
Std Dev 0

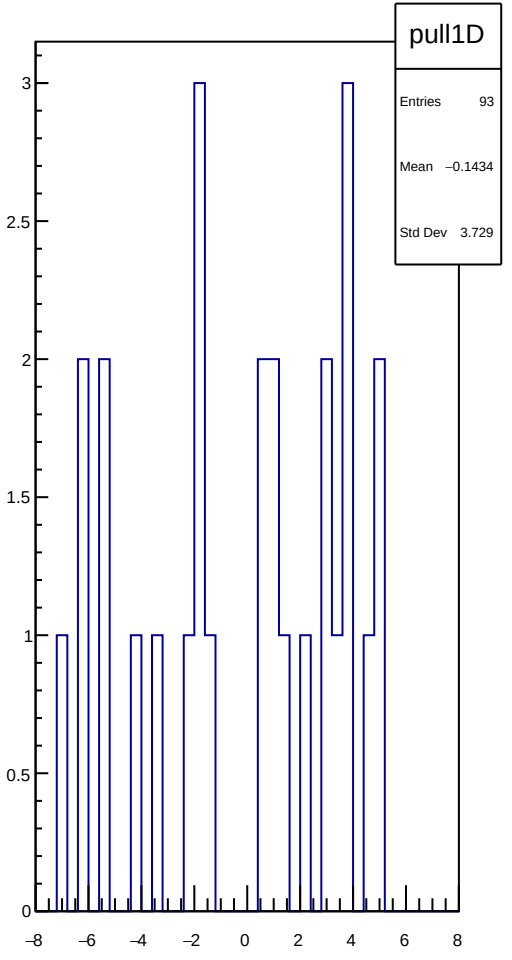

yield_bpm1X_rms vs run
χ² / ndf 2.432e+05 / 92
p0 0.01508 ± 1.223e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

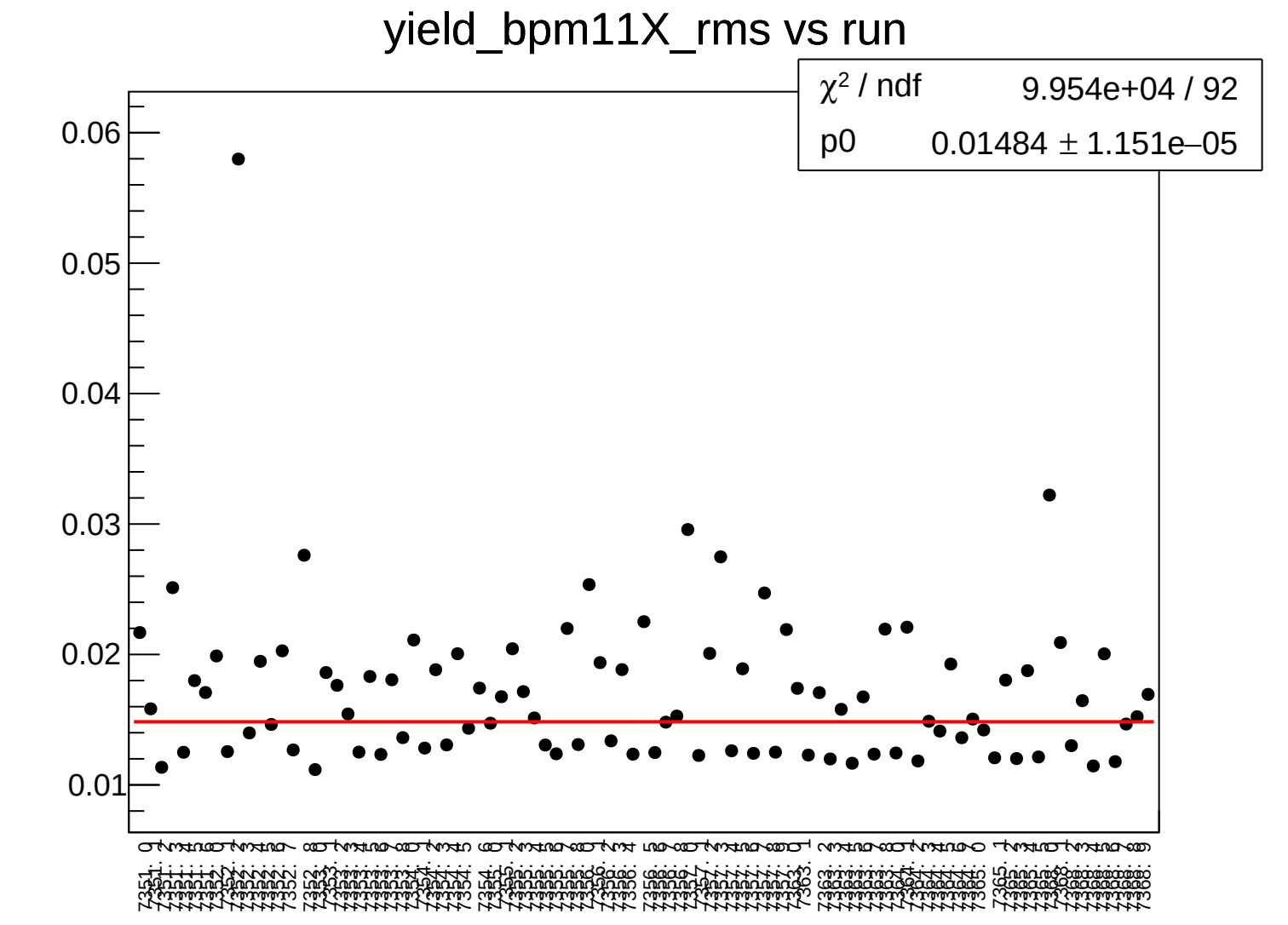

yield_bpm1Y_mean vs run
χ² / ndf 4.786e+07 / 92
p0 2.055 ± 1.323e−05
2.1
2.05
2
1.95
1.9
1.85
1.8
pull
Entries 93
Mean −1299
Std Dev 1358
500
0
−500
−1000
−1500
−2000
−2500

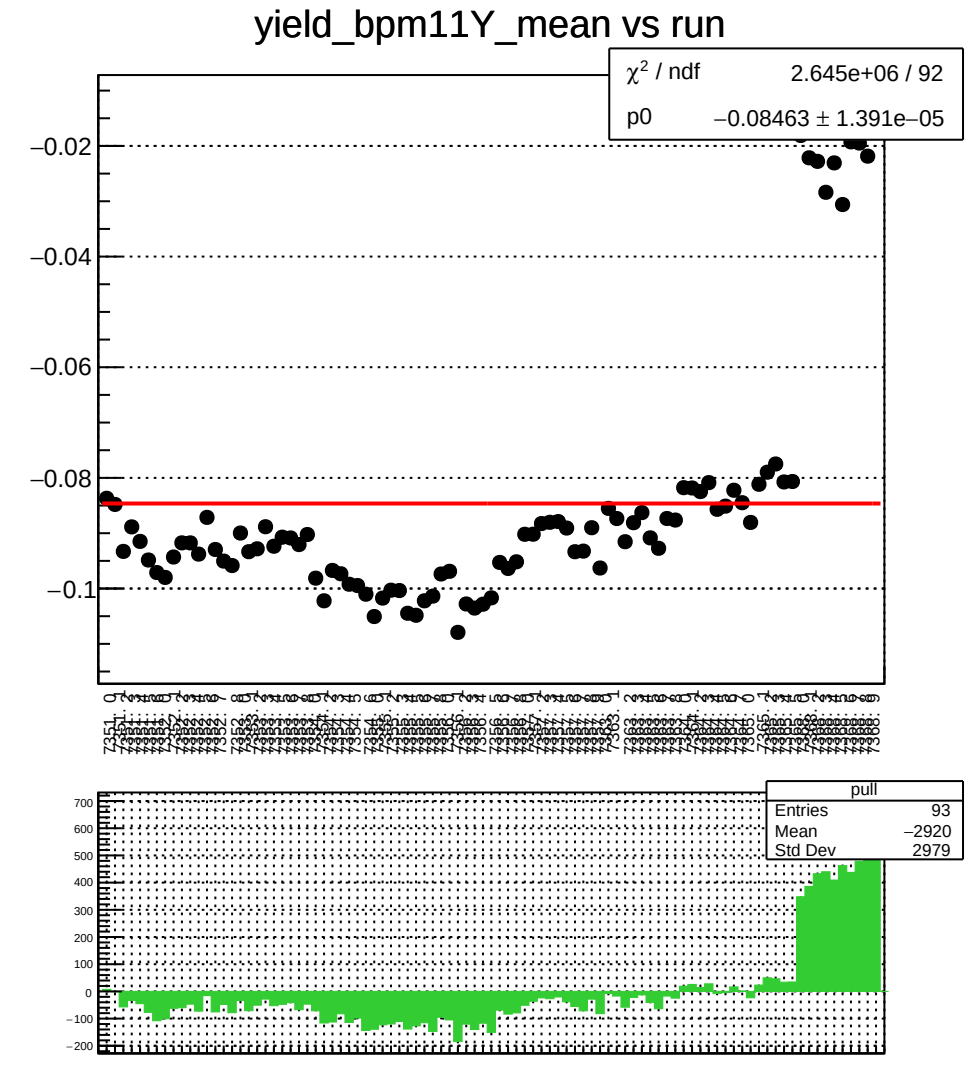

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

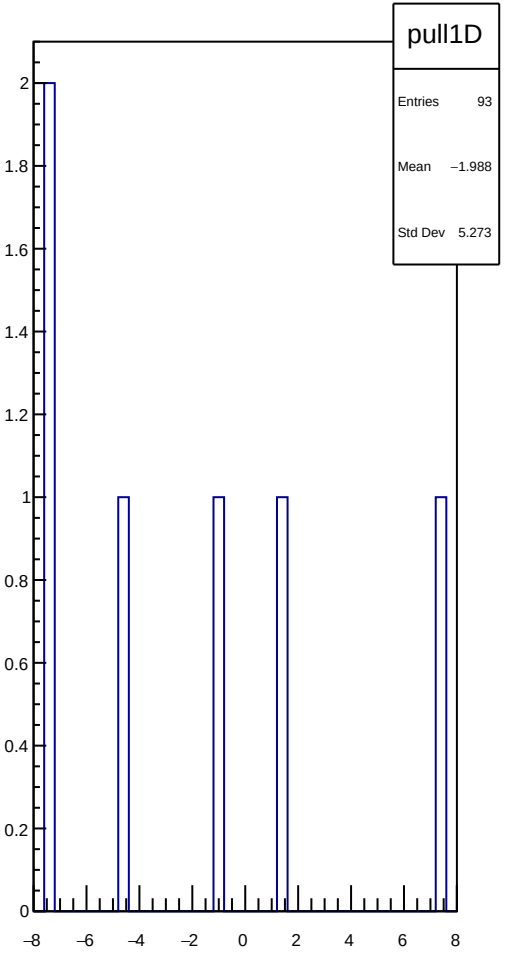

yield_bpm1Y_rms vs run
χ^2 / ndf 2.602e+04 / 92
p0 0.01233 ± 9.354e−06
0.02
0.018
0.016
0.014
0.012
0.01

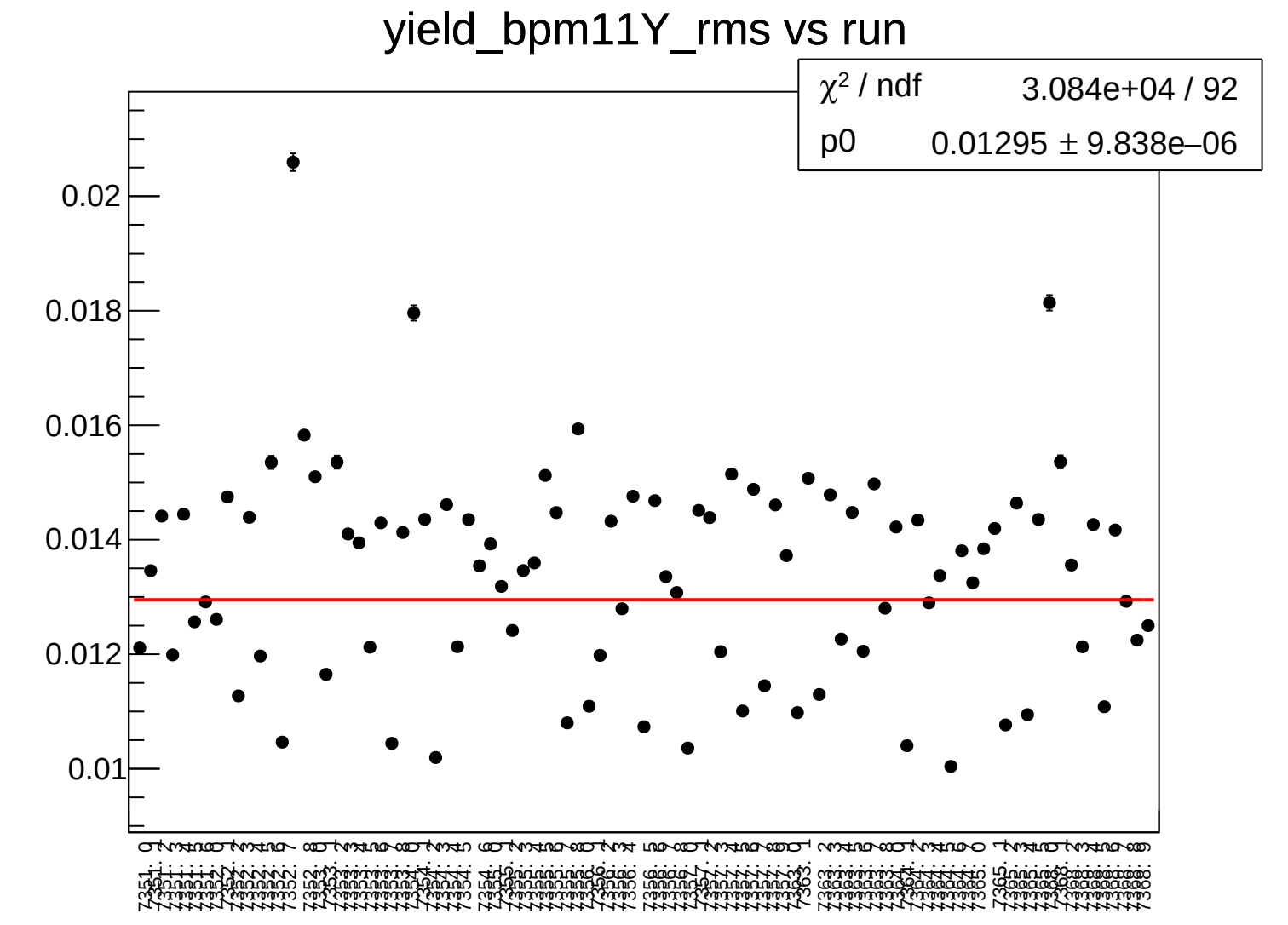

yield_bpm11X_mean vs run
χ² / ndf 8.224e+04 / 92
p0 0.7124 ± 1.627e−05
0.78
0.77
0.76
0.75
0.74
0.73
0.72
0.71
0.7
0.69
pull
Entries 93
Mean 30.94
Std Dev 20.57
100
80
60
40
20
0
−20
−40
−60

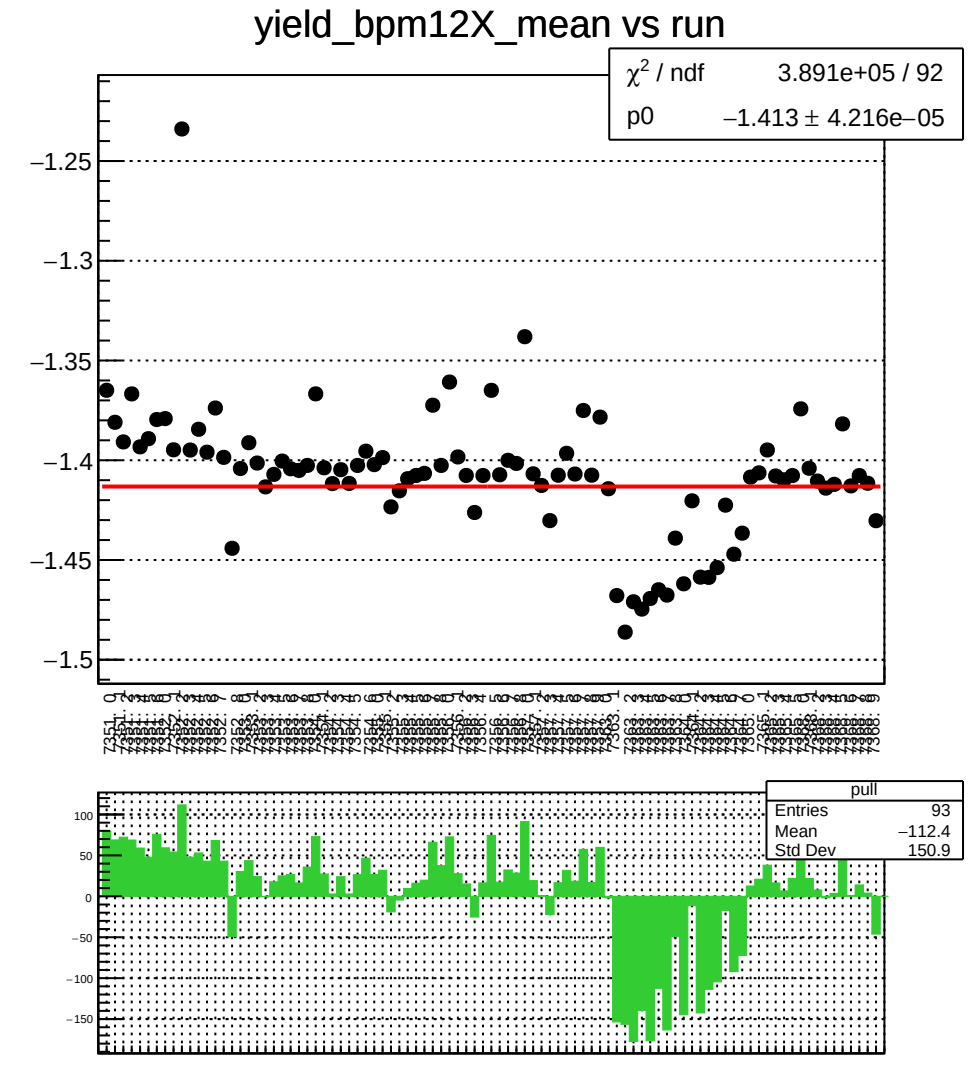

pull1D
Entries 93
Mean −0.1434
Std Dev 3.729
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

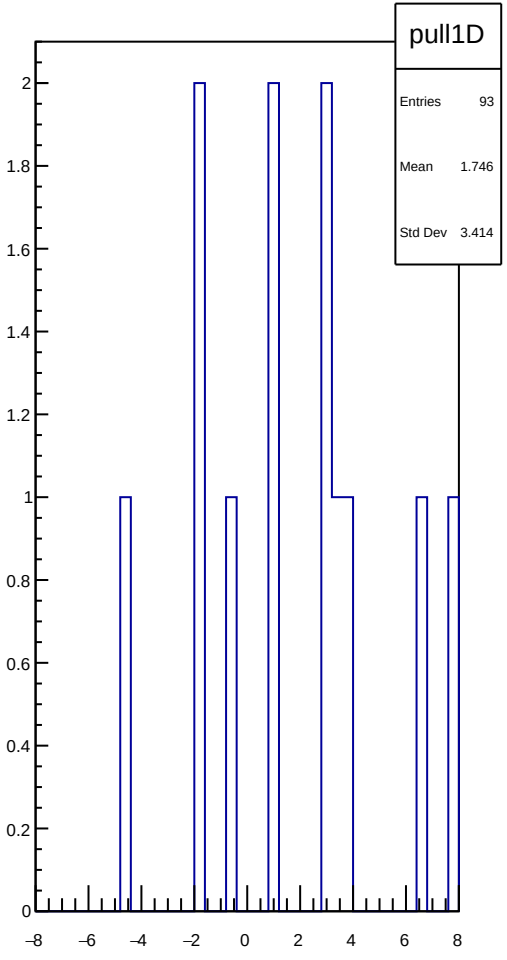

yield_bpm11X_rms vs run
χ^2 / ndf 9.954e+04 / 92
p0 0.01484 ± 1.151e–05
0.06
0.05
0.04
0.03
0.02
0.01

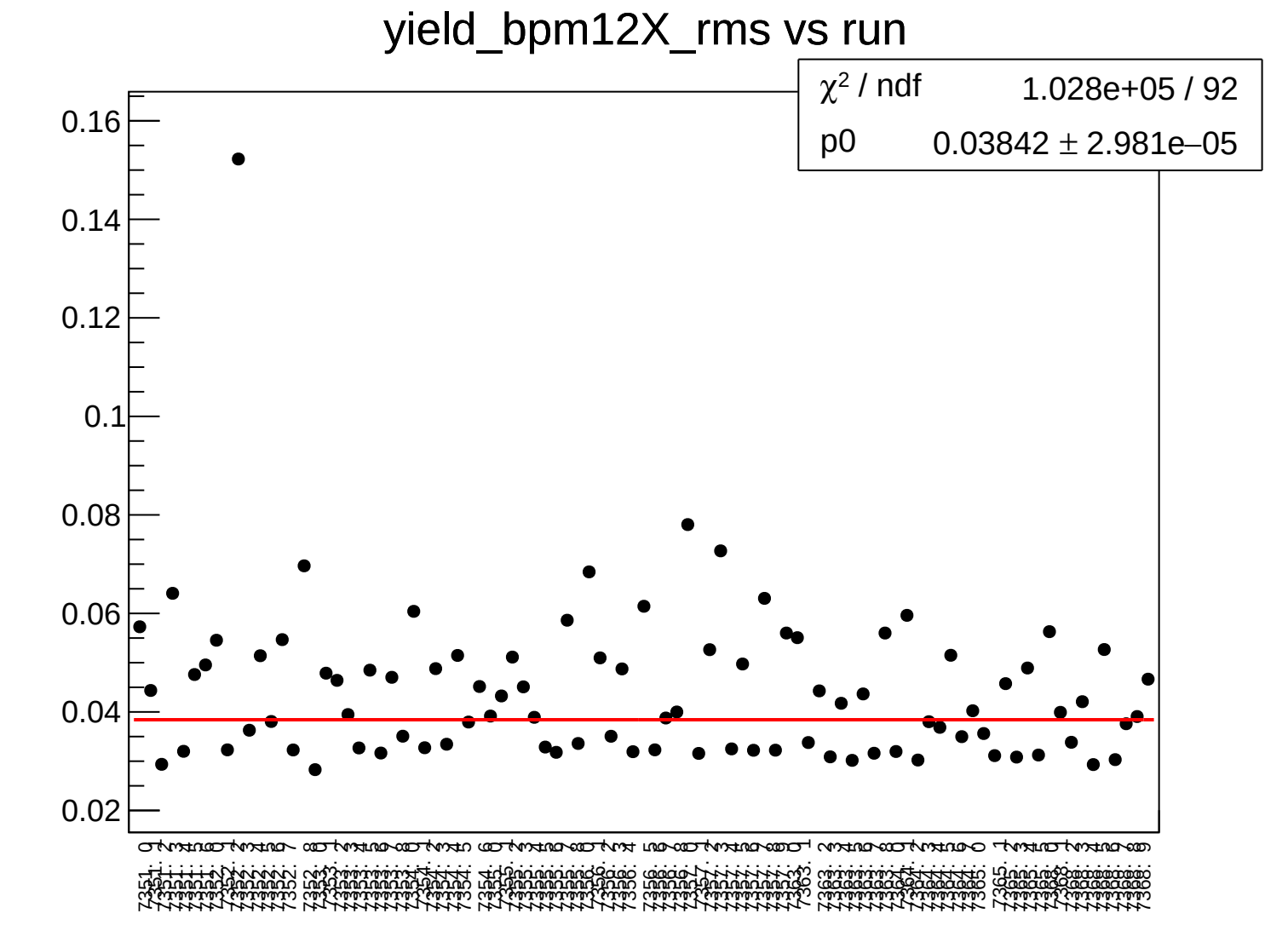

yield_bpm11Y_mean vs run
χ² / ndf 2.645e+06 / 92
p0 −0.08463 ± 1.391e−05
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 93
Mean −2920
Std Dev 2979
700
600
500
400
300
200
100
0
−100
−200

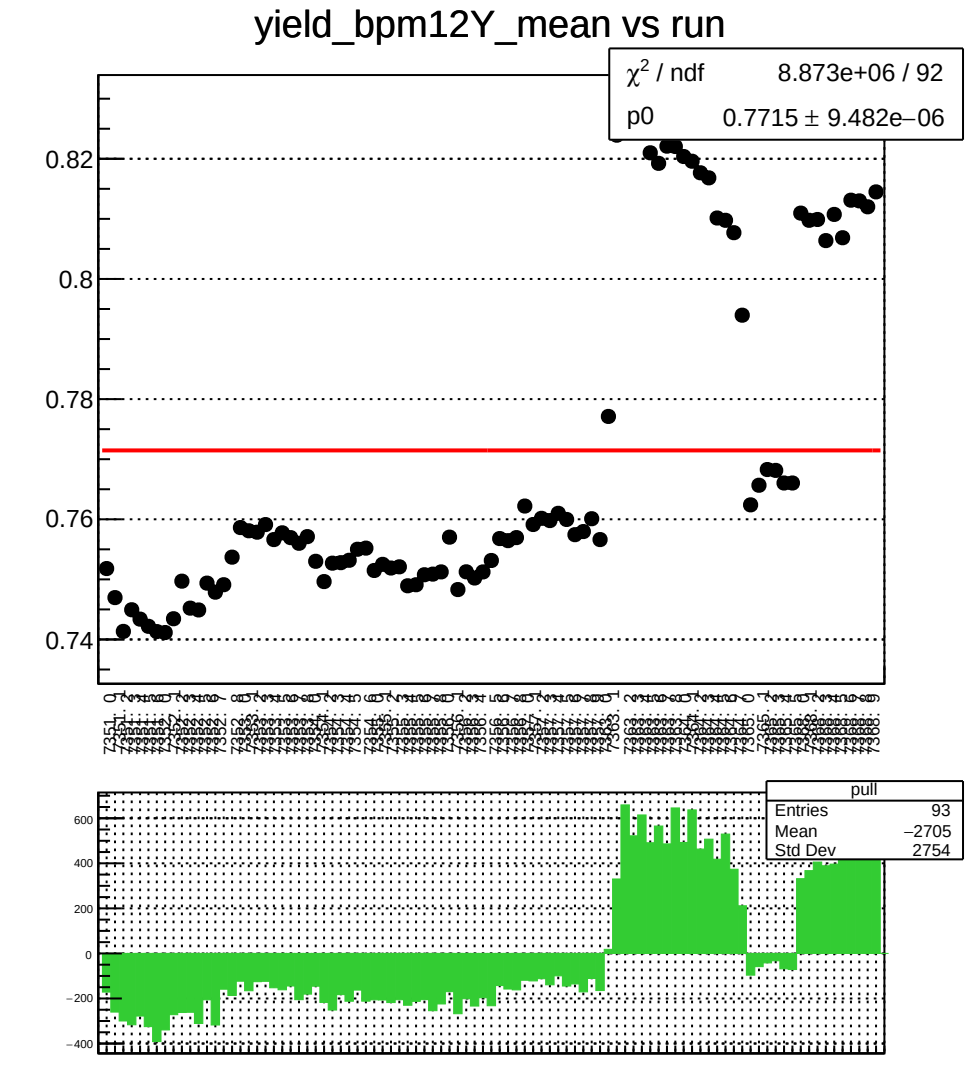

pull1D
Entries 93
Mean −1.988
Std Dev 5.273
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

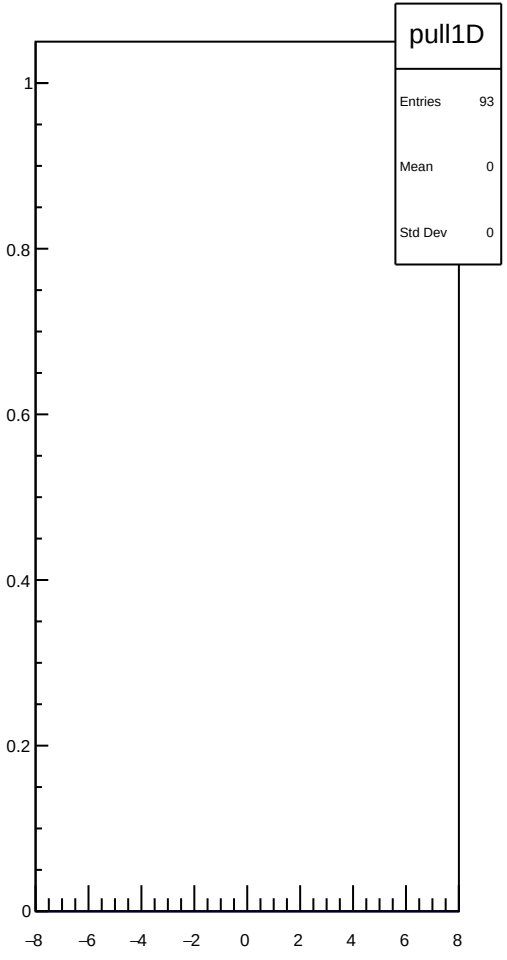

yield_bpm11Y_rms vs run
χ^2 / ndf 3.084e+04 / 92
p0 0.01295 ± 9.838e–06
0.02
0.018
0.016
0.014
0.012
0.01

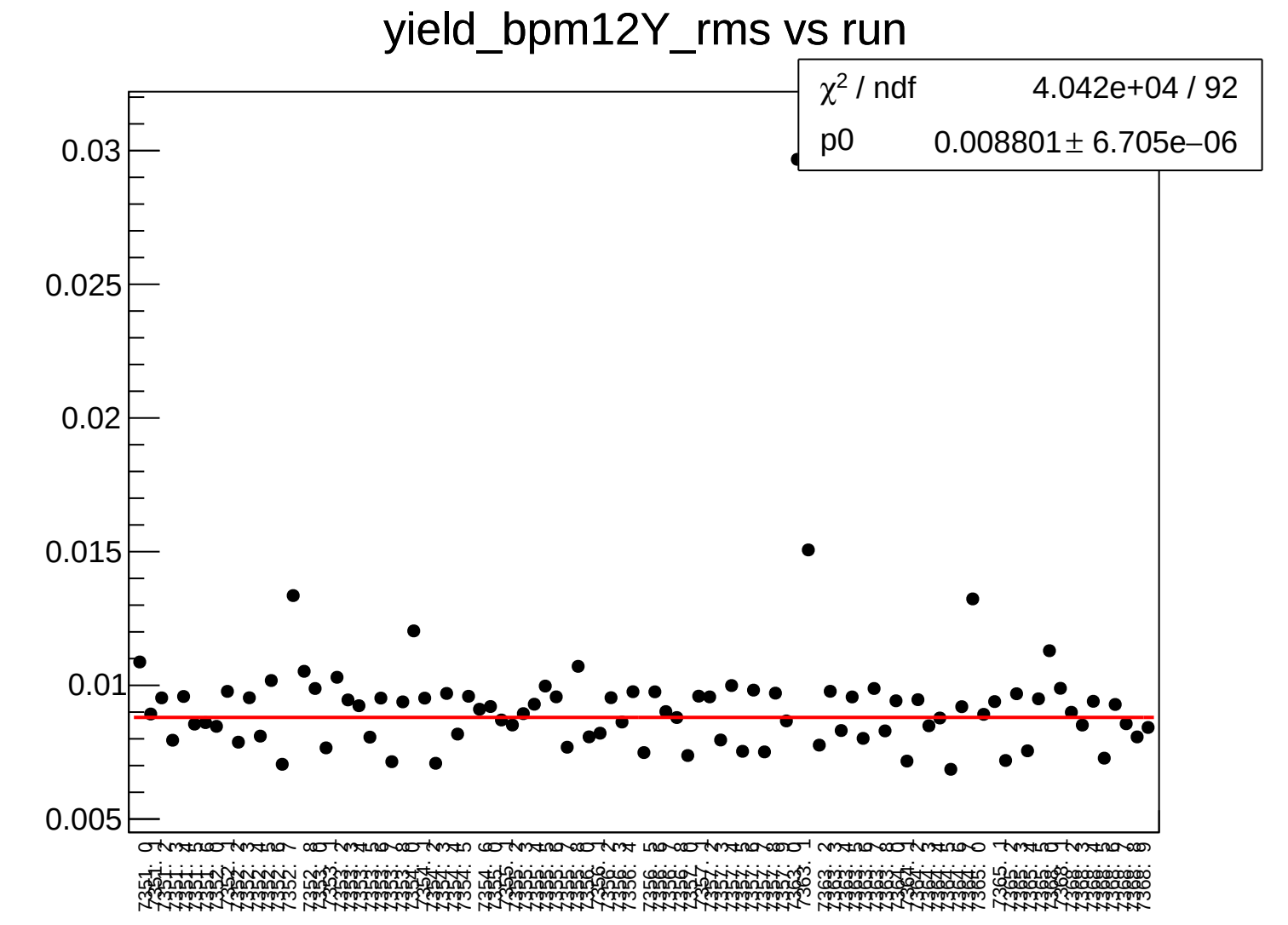

yield_bpm12X_mean vs run
χ² / ndf 3.891e+05 / 92
p0 −1.413 ± 4.216e−05
−1.25
−1.3
−1.35
−1.4
−1.45
−1.5
pull
Entries 93
Mean −112.4
Std Dev 150.9
100
50
0
−50
−100
−150

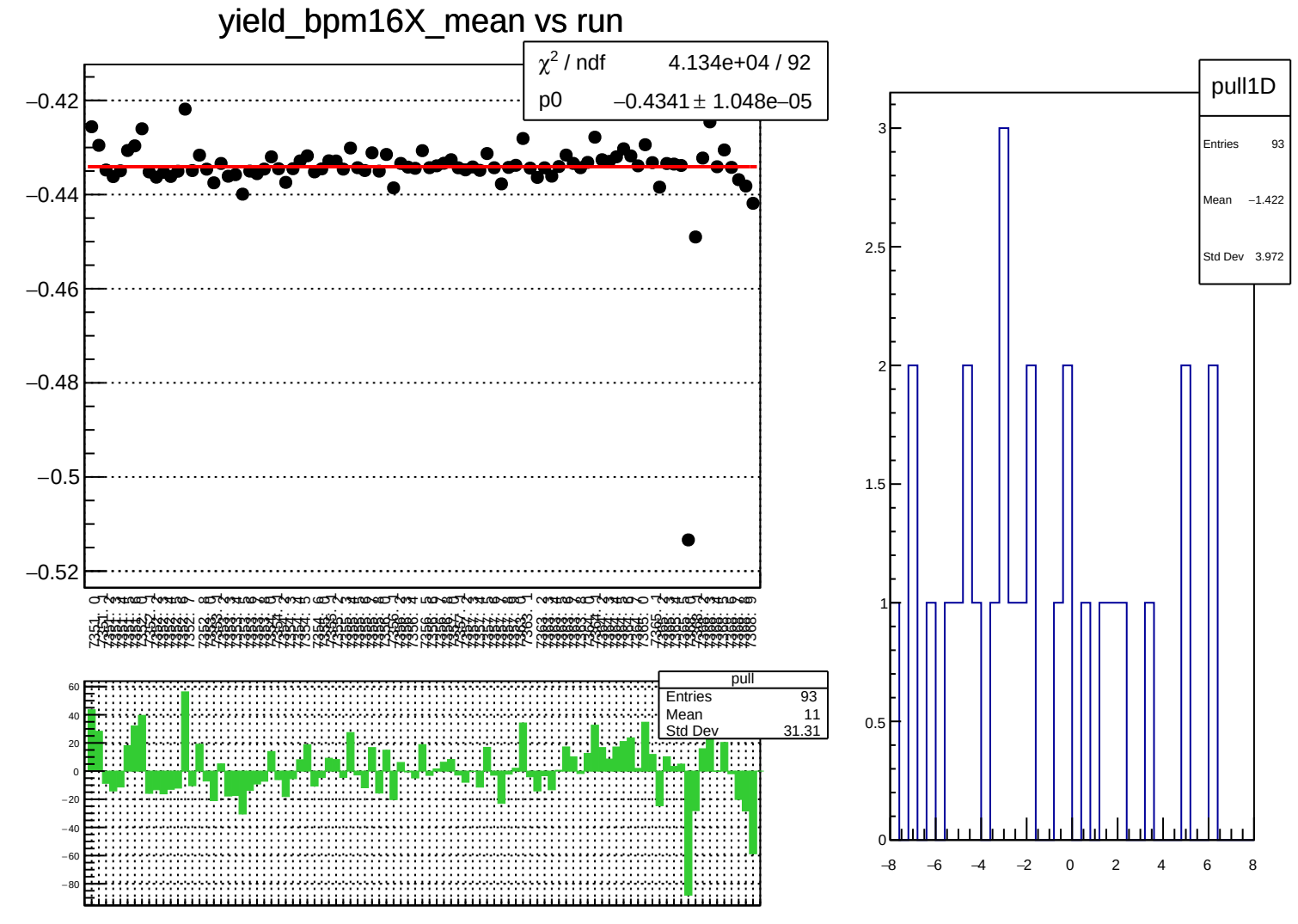

pull1D
Entries 93
Mean 1.746
Std Dev 3.414
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

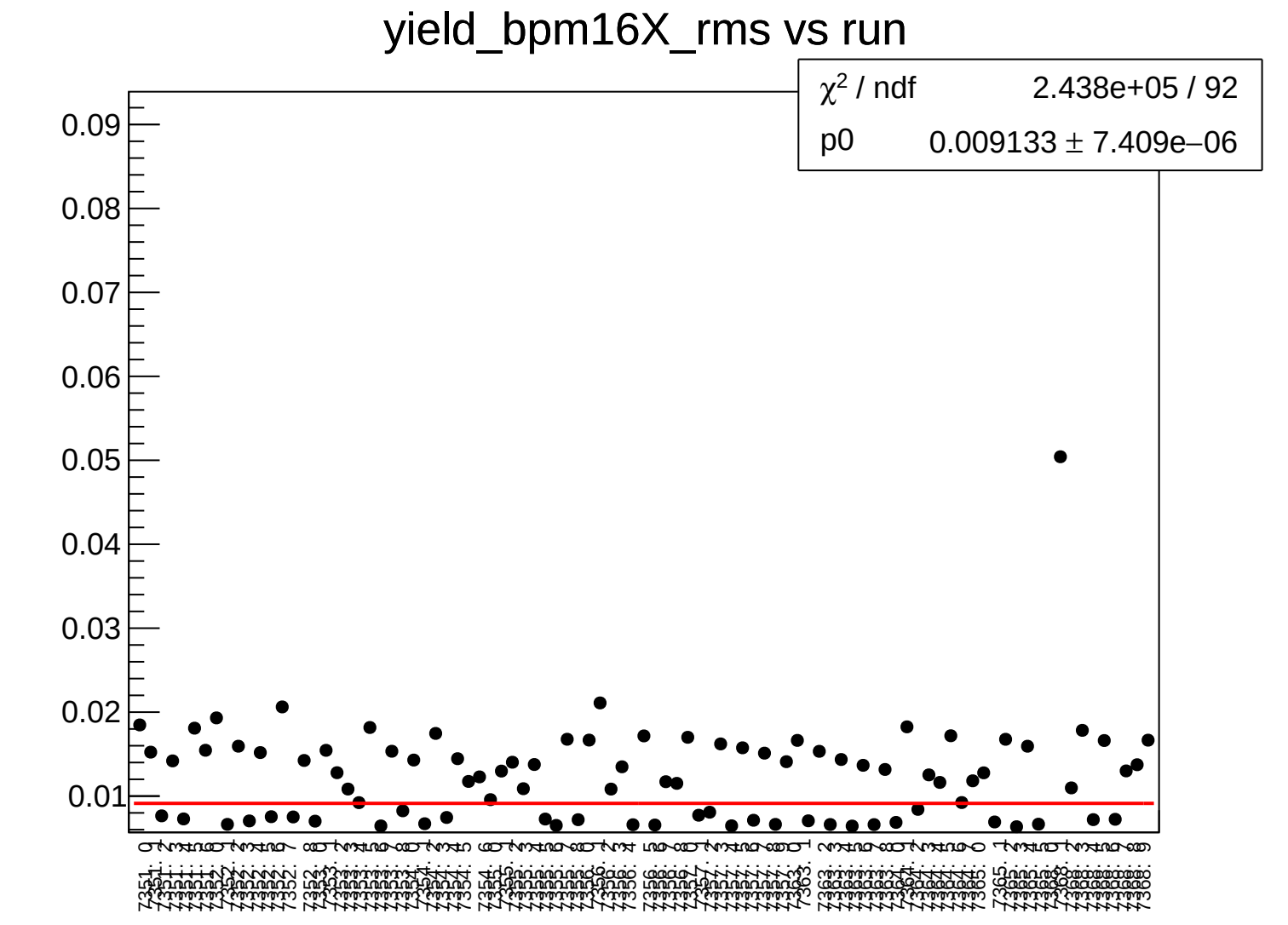

yield_bpm12X_rms vs run
χ² / ndf 1.028e+05 / 92
p0 0.03842 ± 2.981e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

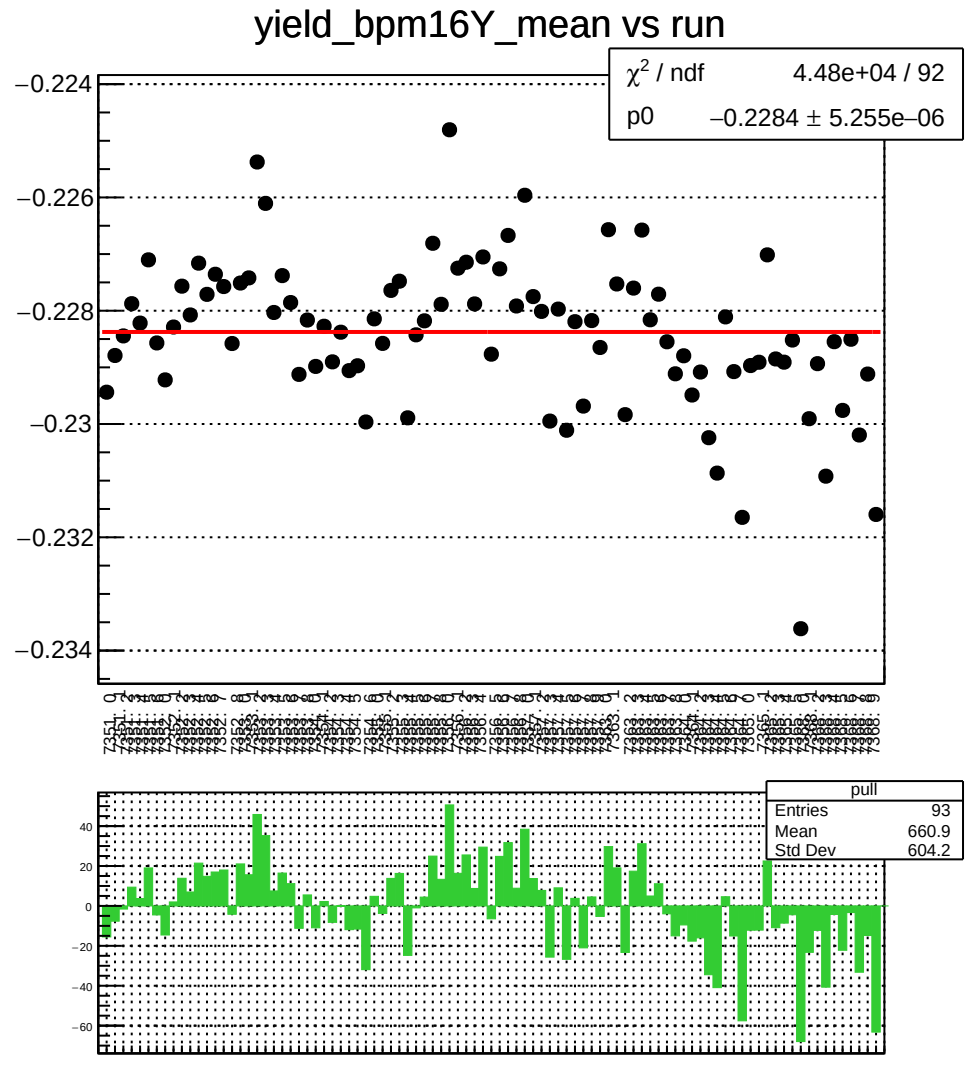

yield_bpm12Y_mean vs run
χ² / ndf 8.873e+06 / 92
p0 0.7715 ± 9.482e−06
0.82
0.8
0.78
0.76
0.74
pull
Entries 93
Mean −2705
Std Dev 2754
600
400
200
0
−200
−400

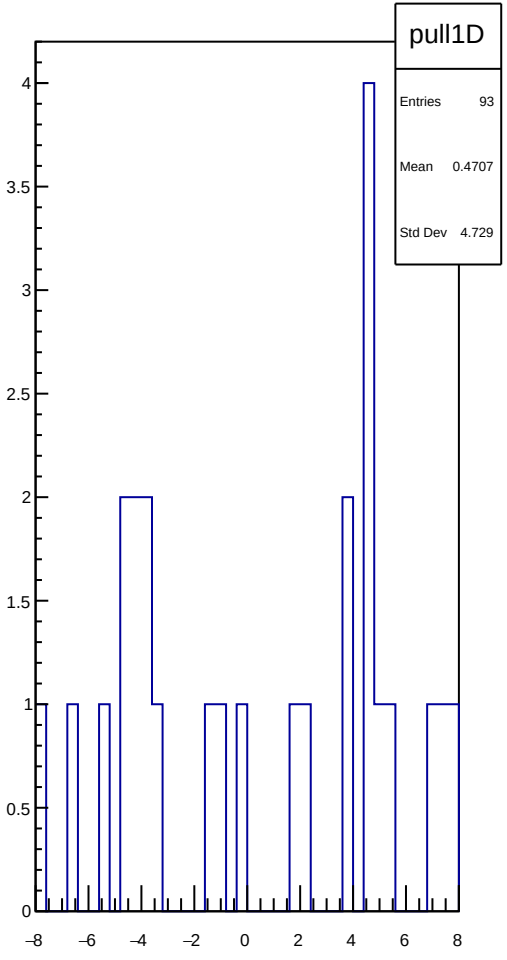

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

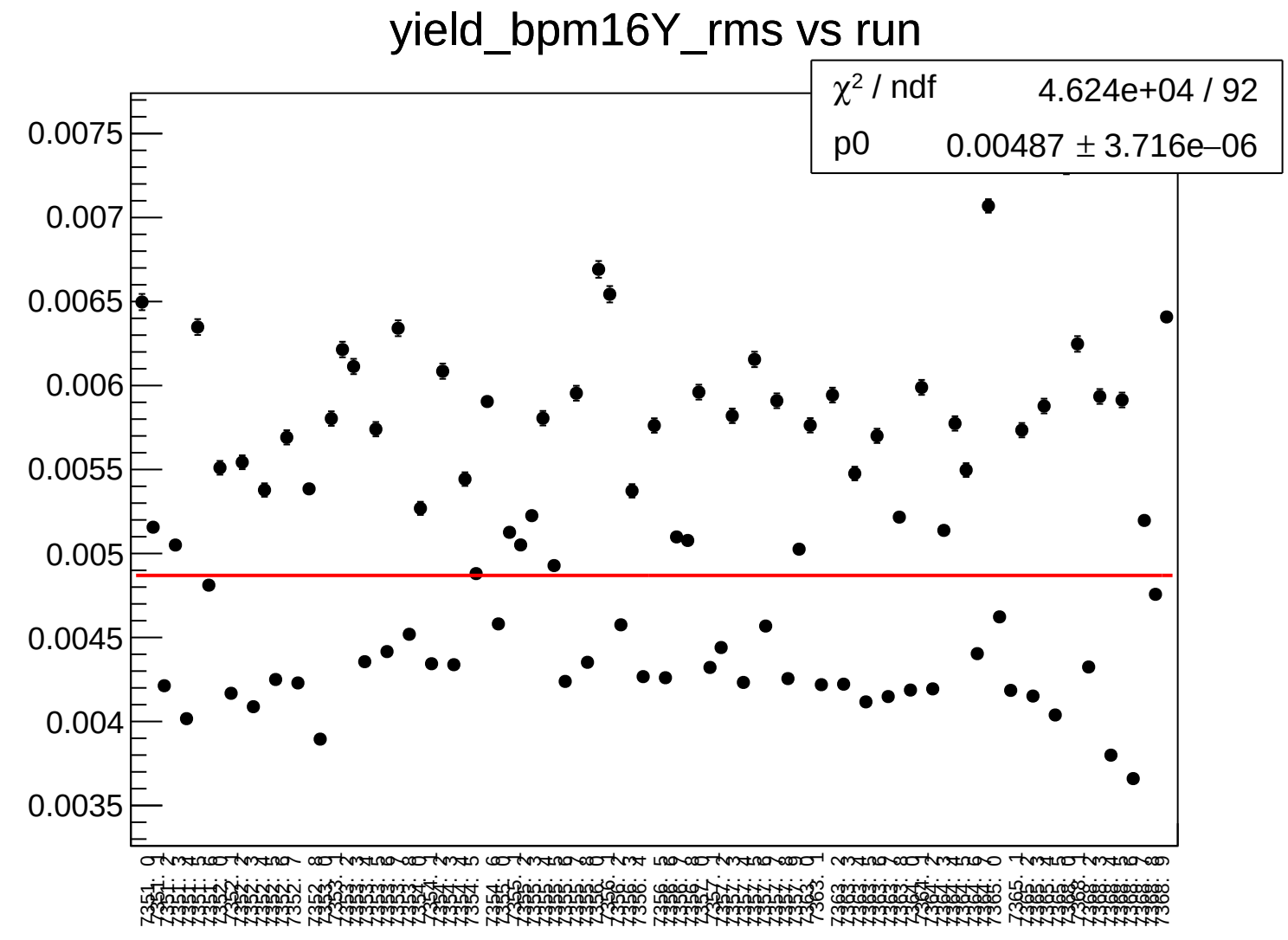

yield_bpm12Y_rms vs run
χ² / ndf 4.042e+04 / 92
p0 0.008801 ± 6.705e−06
0.03
0.025
0.02
0.015
0.01
0.005

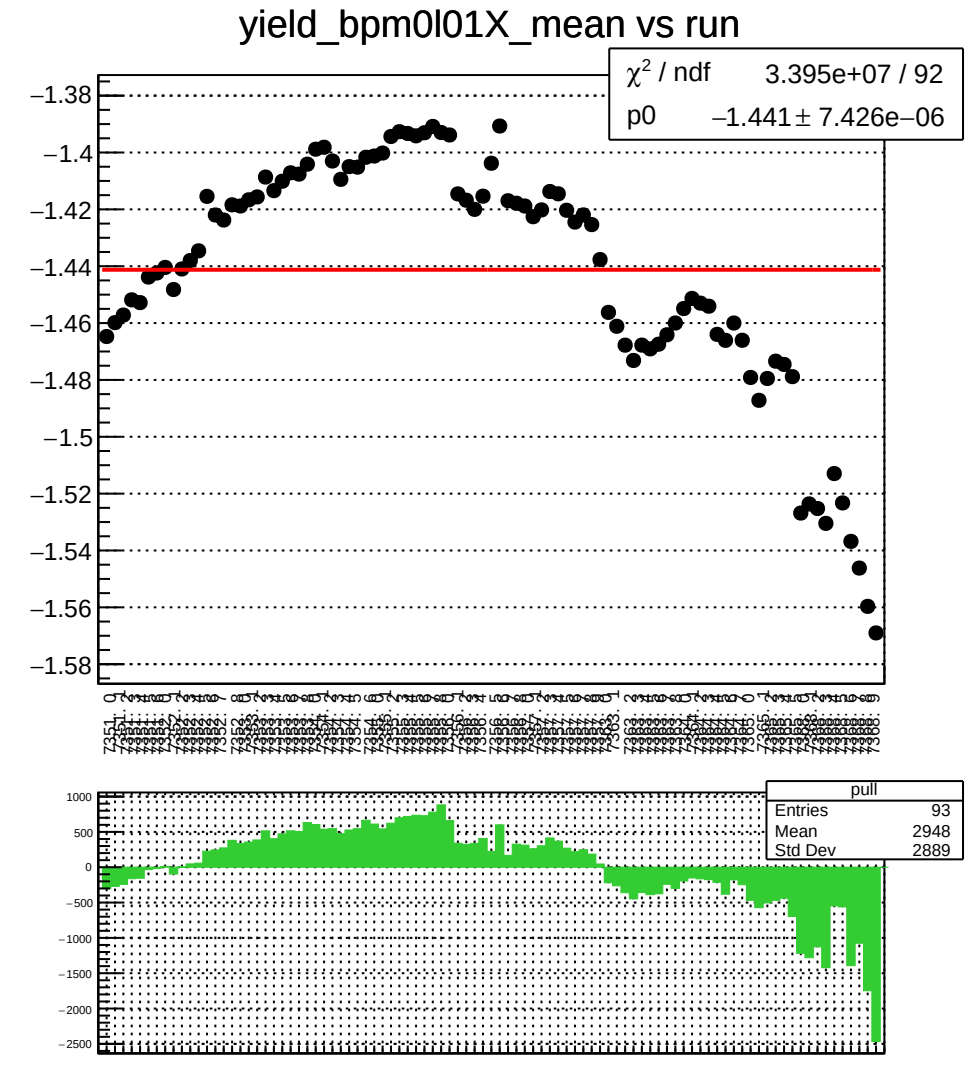

yield_bpm16X_mean vs run
χ² / ndf 4.134e+04 / 92
p0 −0.4341 ± 1.048e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
pull
Entries 93
Mean 11
Std Dev 31.31
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 93
Mean −1.422
Std Dev 3.972
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

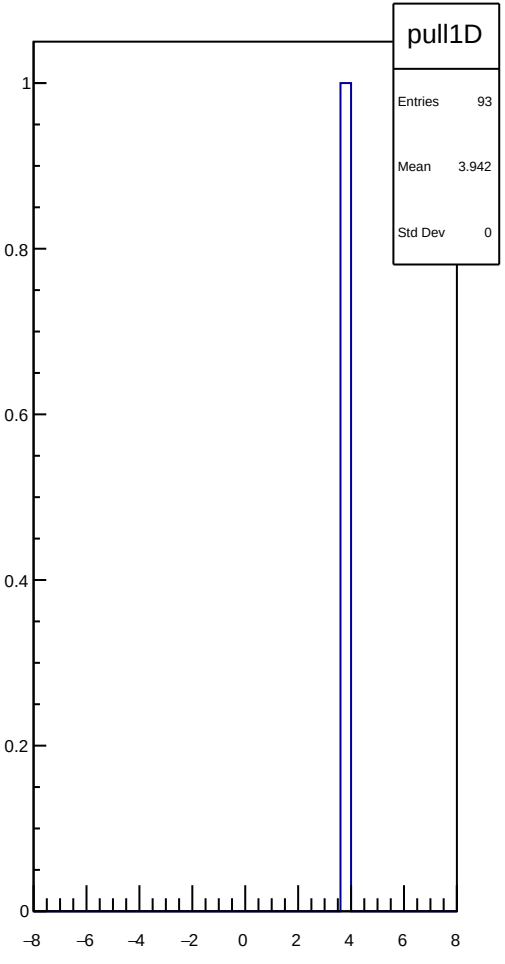

yield_bpm16X_rms vs run
χ² / ndf 2.438e+05 / 92
p0 0.009133 ± 7.409e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

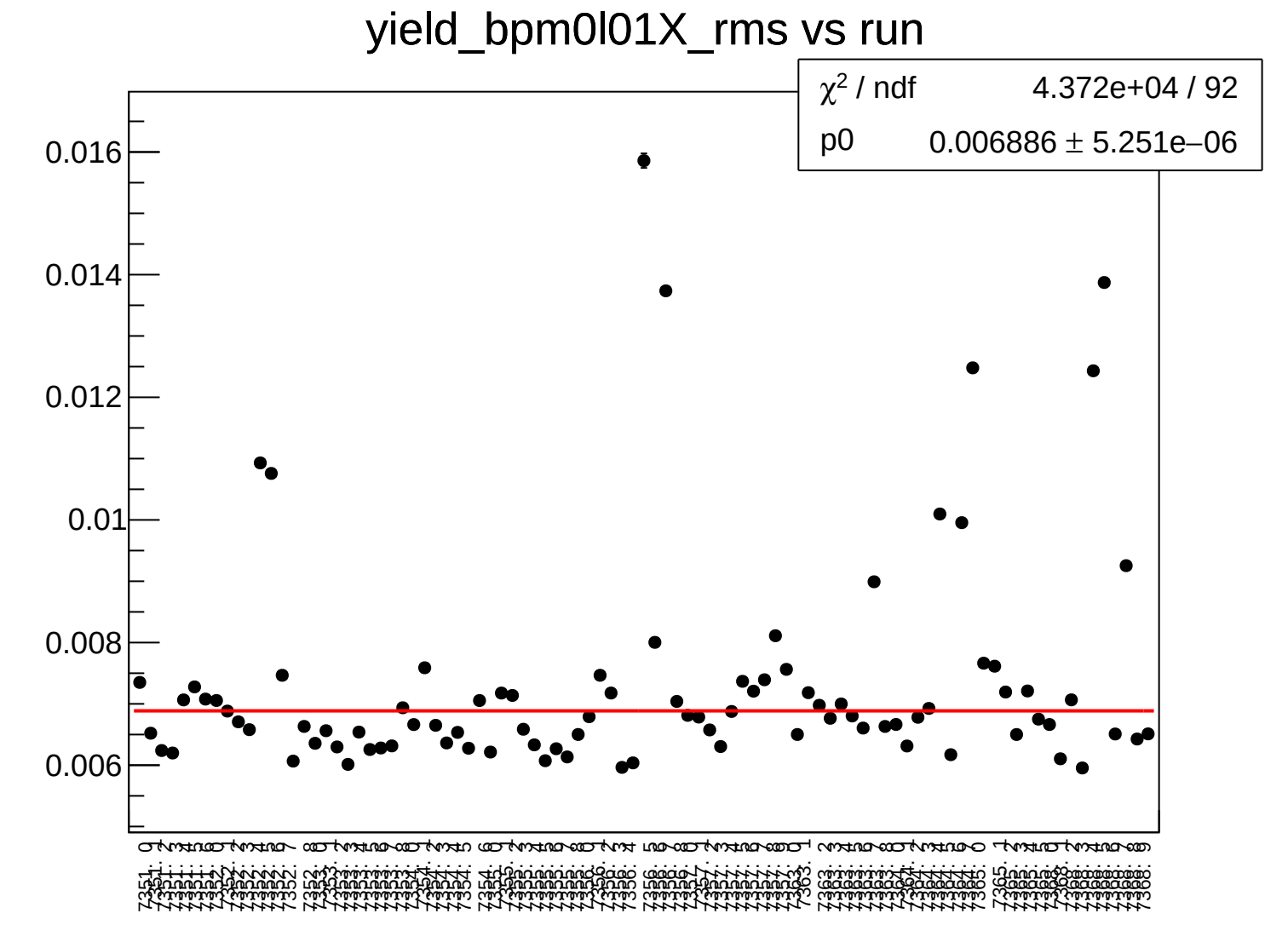

yield_bpm16Y_mean vs run
χ² / ndf 4.48e+04 / 92
p0 −0.2284 ± 5.255e−06
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
pull
Entries 93
Mean 660.9
Std Dev 604.2
40
20
0
−20
−40
−60

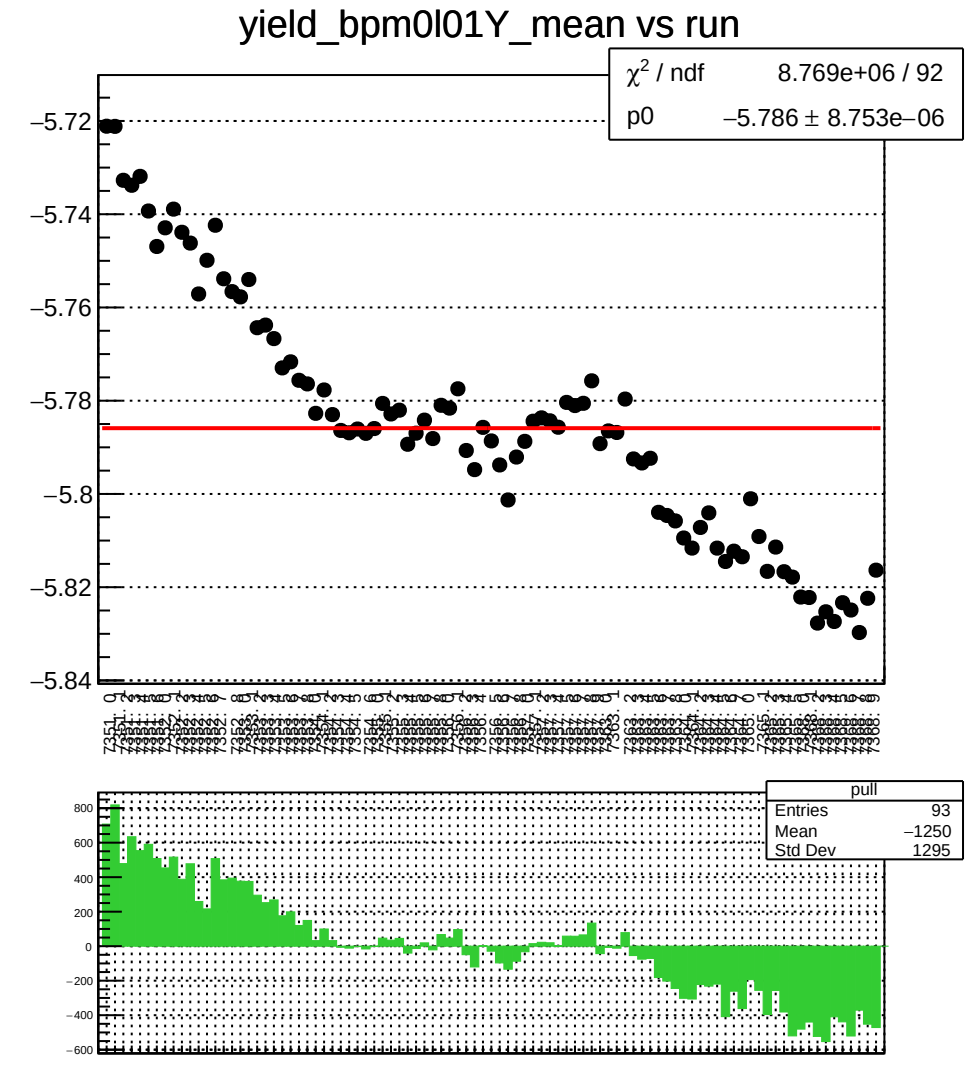

pull1D
Entries 93
Mean 0.4707
Std Dev 4.729
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

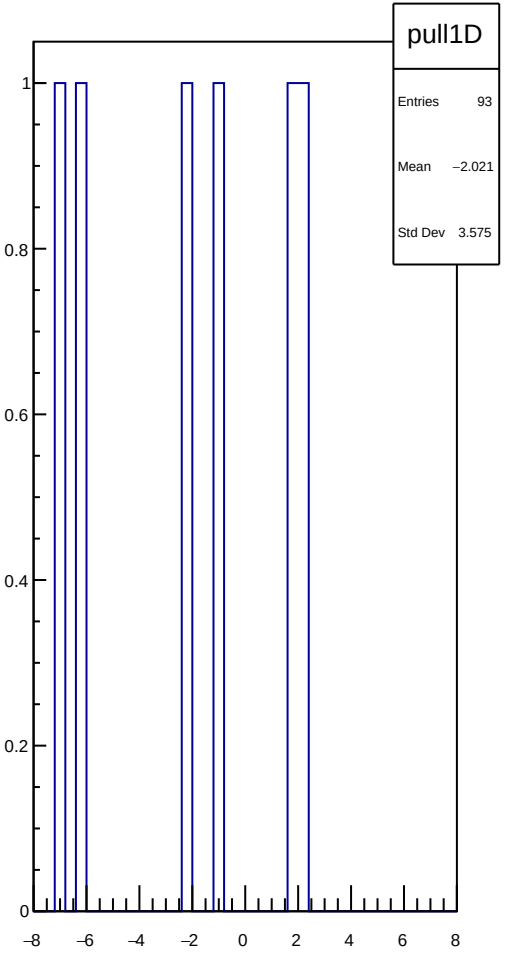

yield_bpm16Y_rms vs run
χ² / ndf 4.624e+04 / 92
p0 0.00487 ± 3.716e–06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

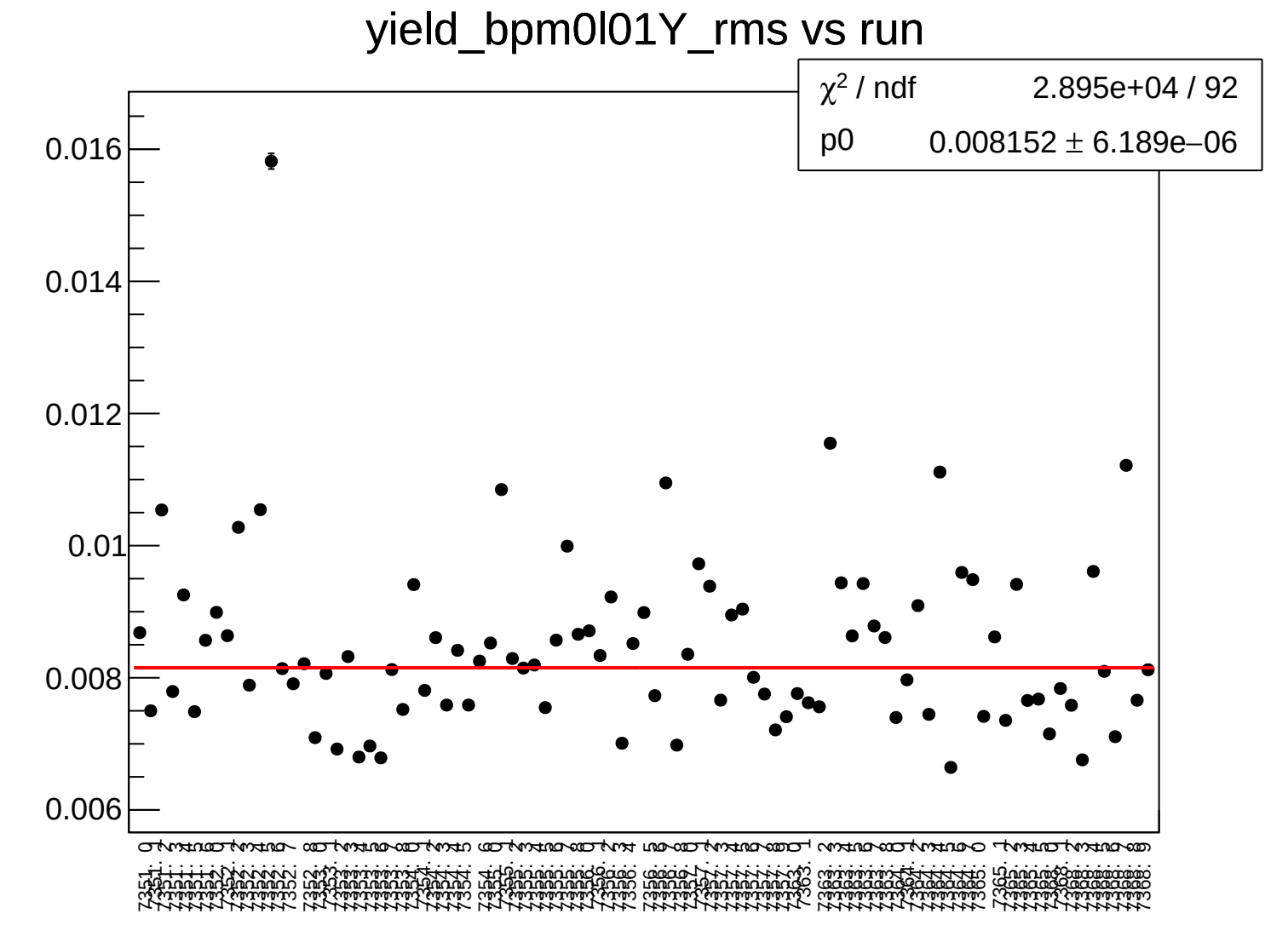

yield_bpm0l01X_mean vs run
χ² / ndf 3.395e+07 / 92
p0 −1.441 ± 7.426e−06
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
−1.52
−1.54
−1.56
−1.58
pull
Entries 93
Mean 2948
Std Dev 2889
1000
500
0
−500
−1000
−1500
−2000
−2500

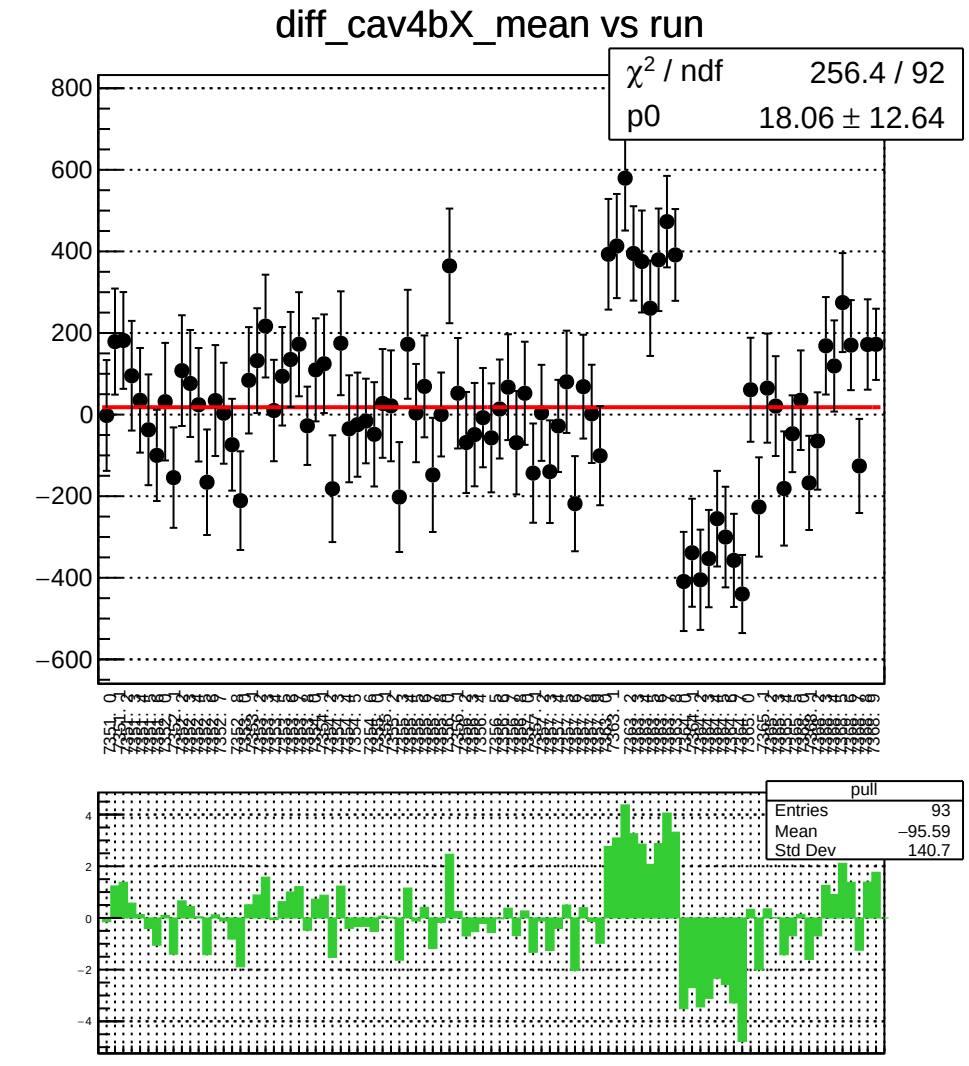

pull1D
Entries 93
Mean 3.942
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

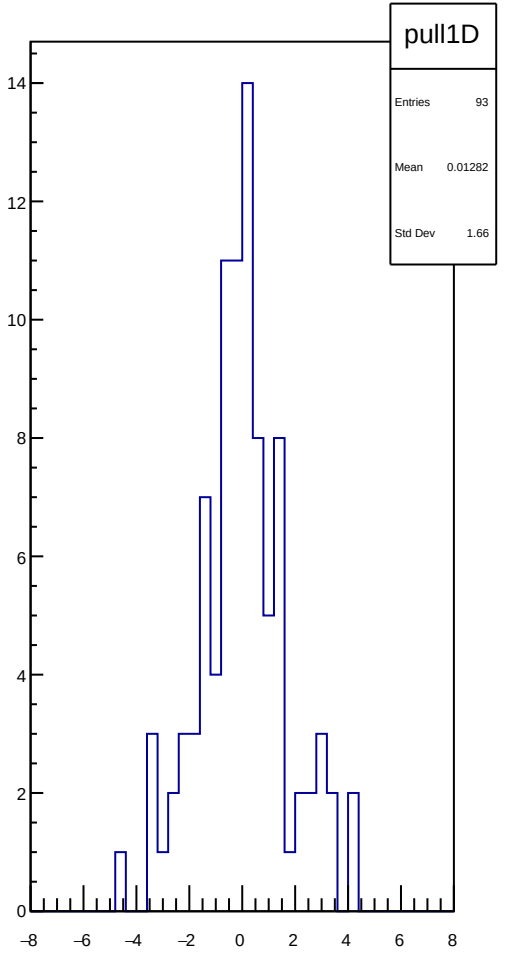

yield_bpm0l01X_rms vs run
χ^2 / ndf 4.372e+04 / 92
p0 0.006886 ± 5.251e−06
0.016
0.014
0.012
0.01
0.008
0.006

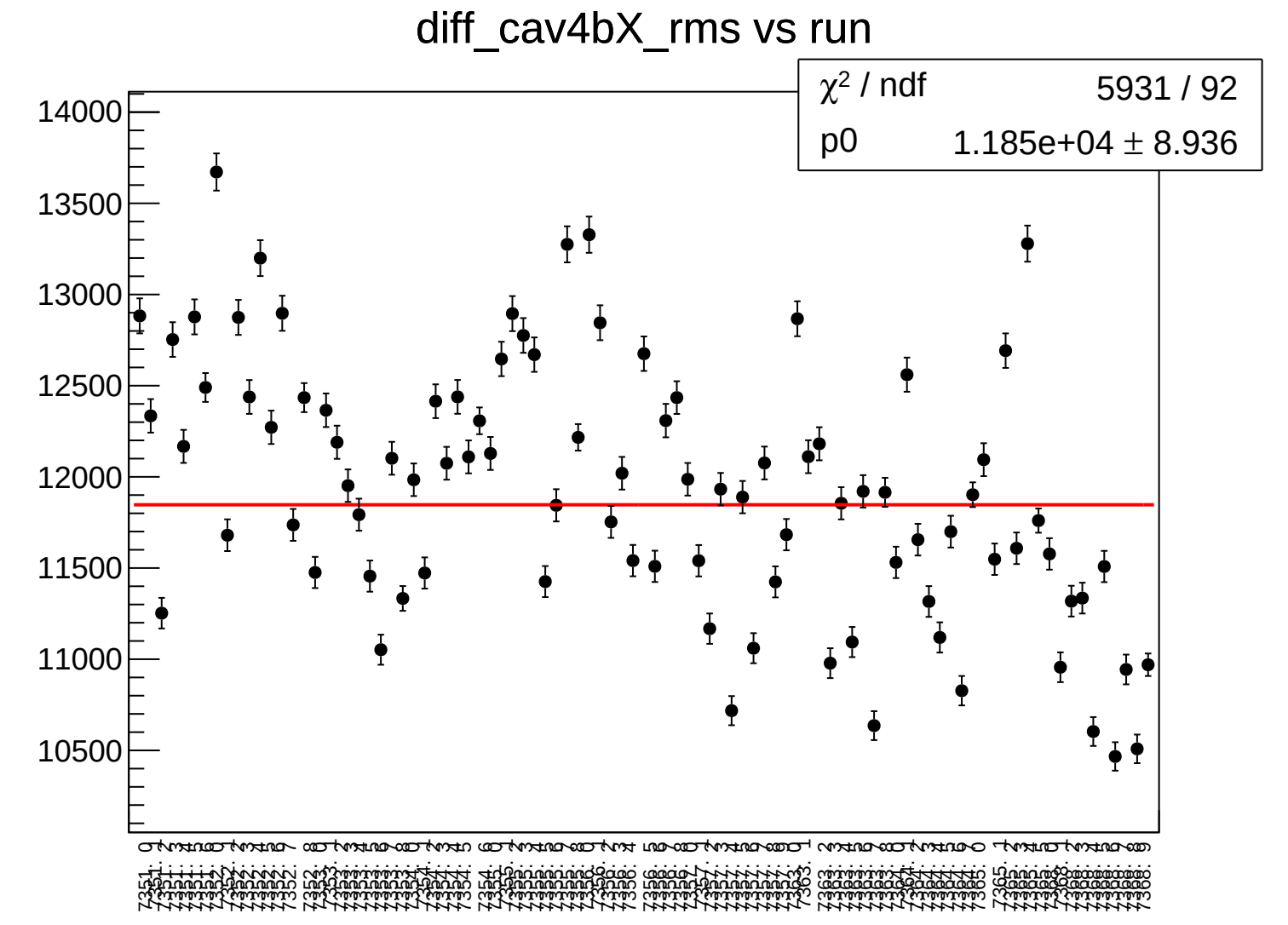

yield_bpm0l01Y_mean vs run
χ² / ndf 8.769e+06 / 92
p0 −5.786 ± 8.753e−06
−5.72
−5.74
−5.76
−5.78
−5.8
−5.82
−5.84
pull
Entries 93
Mean −1250
Std Dev 1295
800
600
400
200
0
−200
−400
−600

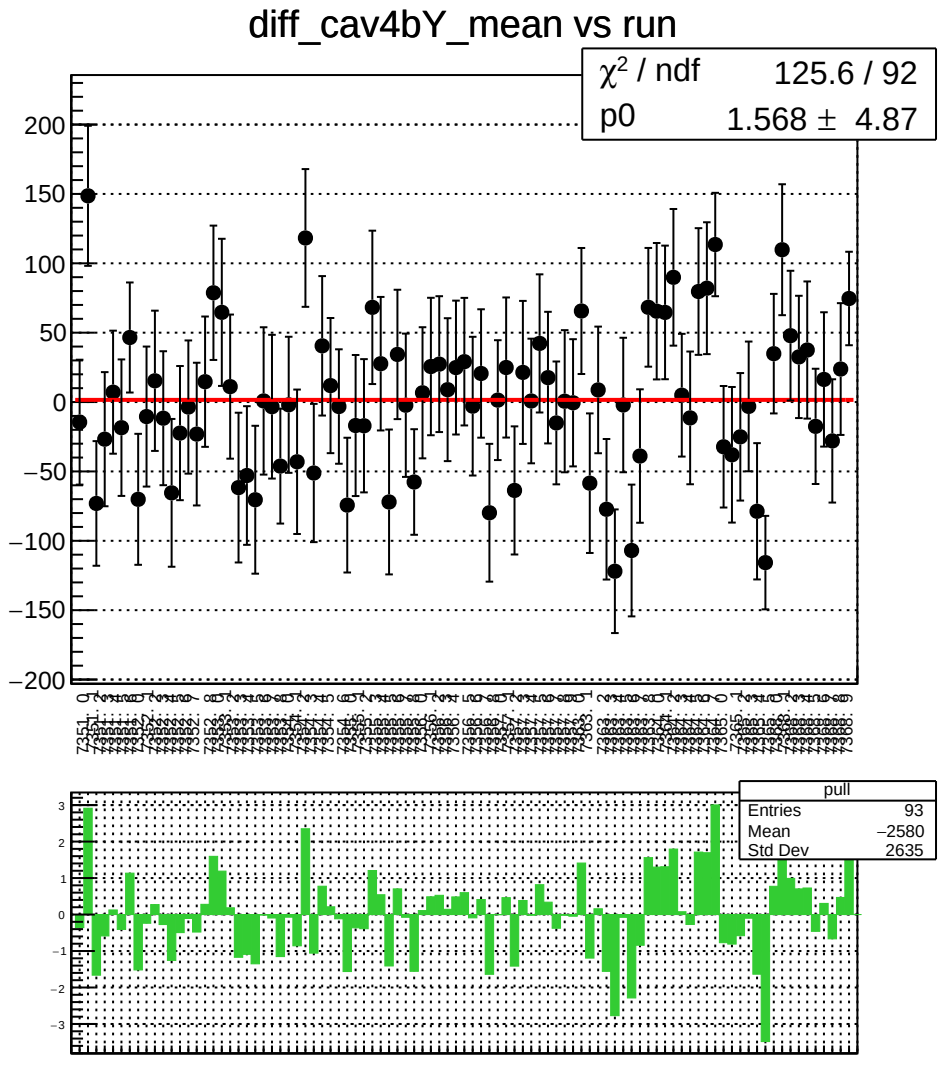

pull1D
Entries 93
Mean −2.021
Std Dev 3.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

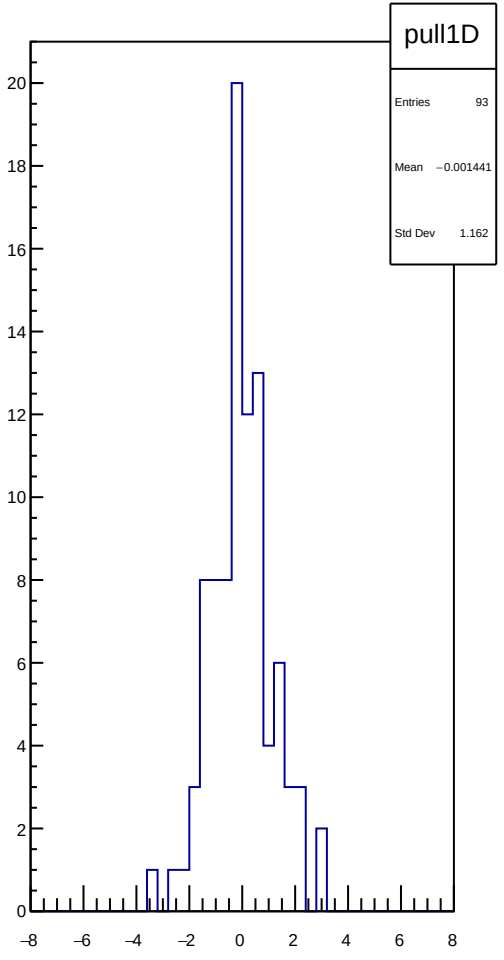

yield_bpm0l01Y_rms vs run
χ² / ndf 2.895e+04 / 92
p0 0.008152 ± 6.189e−06
0.016
0.014
0.012
0.01
0.008
0.006

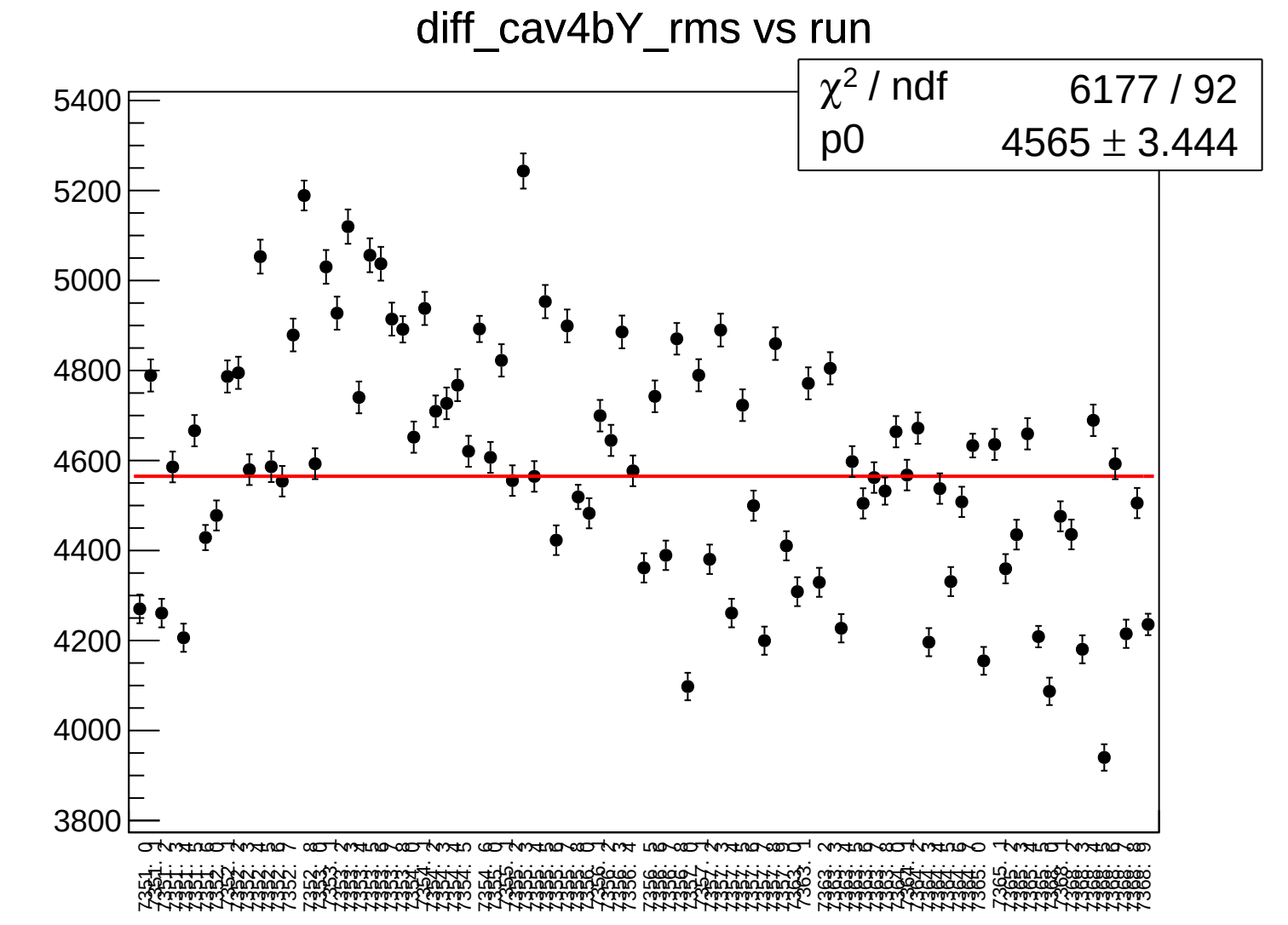

diff_cav4bX_mean vs run
χ² / ndf 256.4 / 92
p0 18.06 ± 12.64
pull
Entries 93
Mean −95.59
Std Dev 140.7

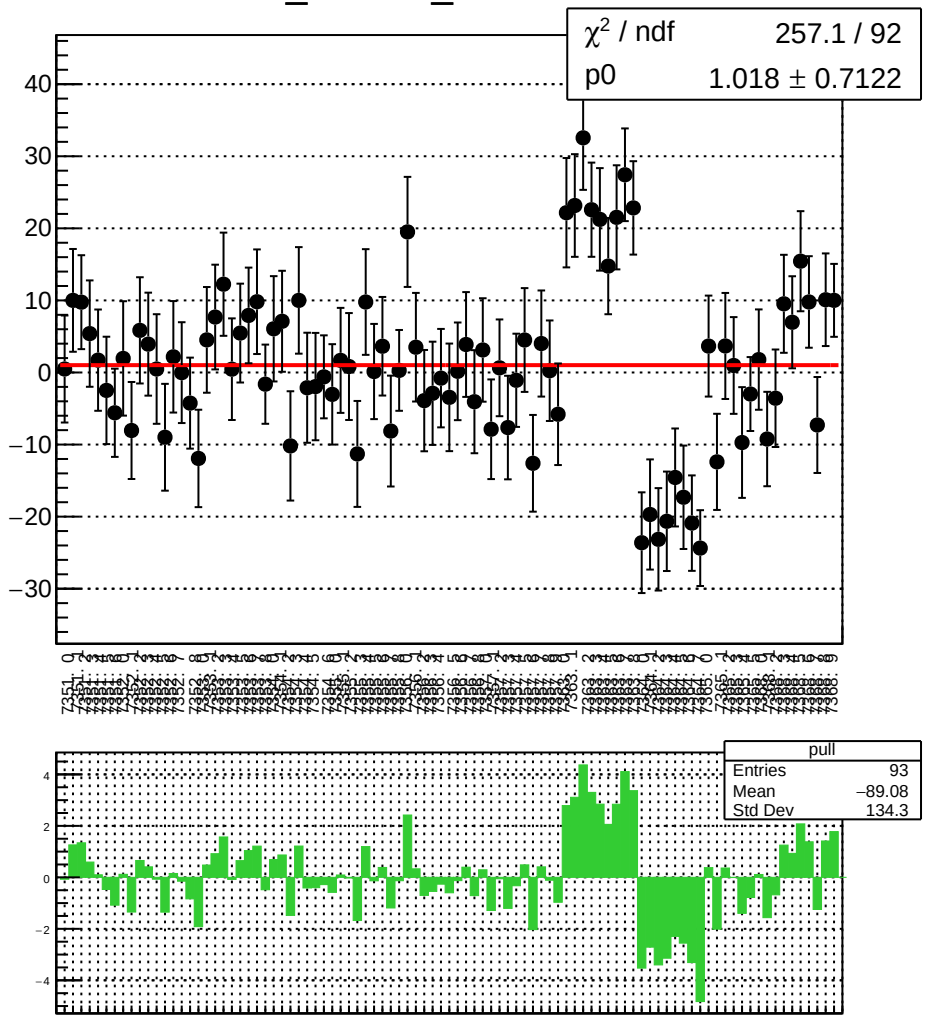

pull1D
Entries 93
Mean 0.01282
Std Dev 1.66

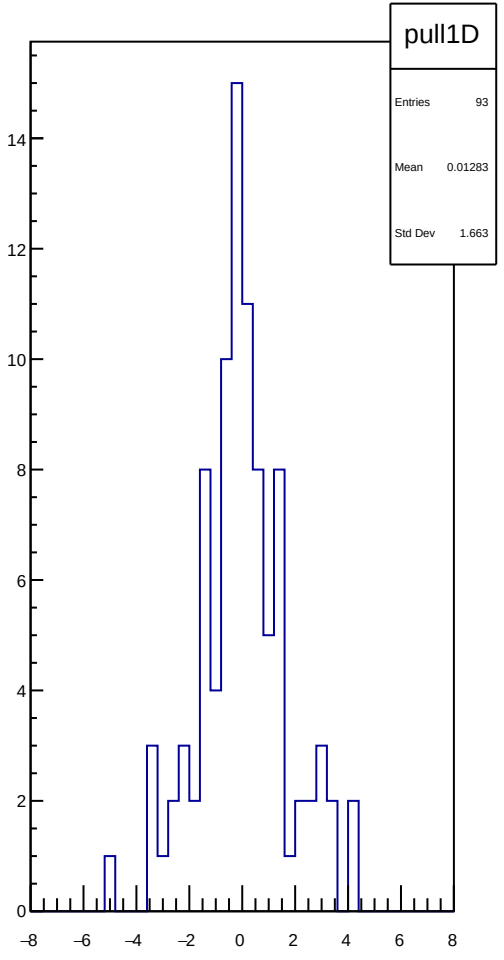

diff_cav4bX_rms vs run
χ² / ndf 5931 / 92
p0 1.185e+04 ± 8.936
14000
13500
13000
12500
12000
11500
11000
10500

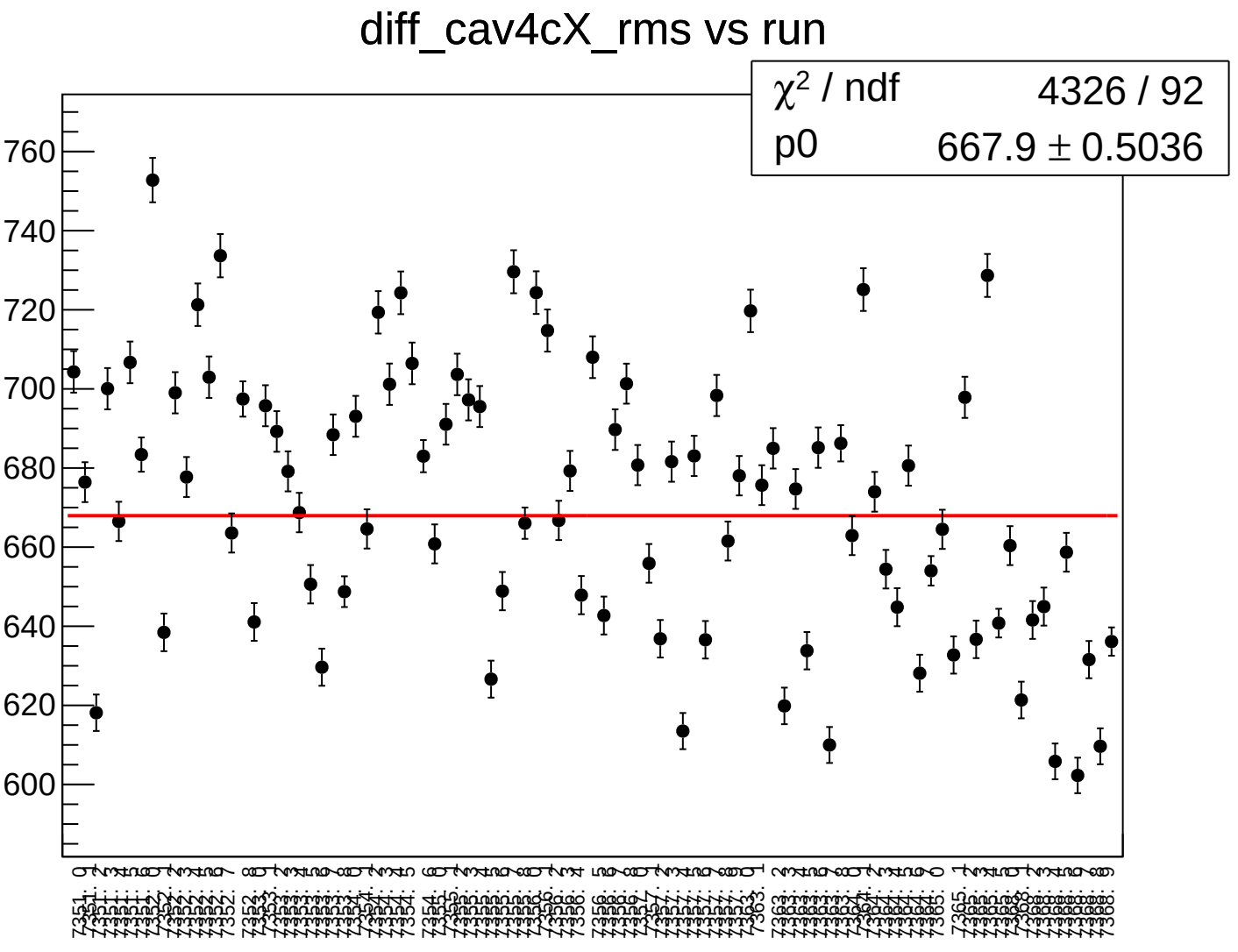

diff_cav4bY_mean vs run
χ² / ndf 125.6 / 92
p0 1.568 ± 4.87
pull
Entries 93
Mean −2580
Std Dev 2635

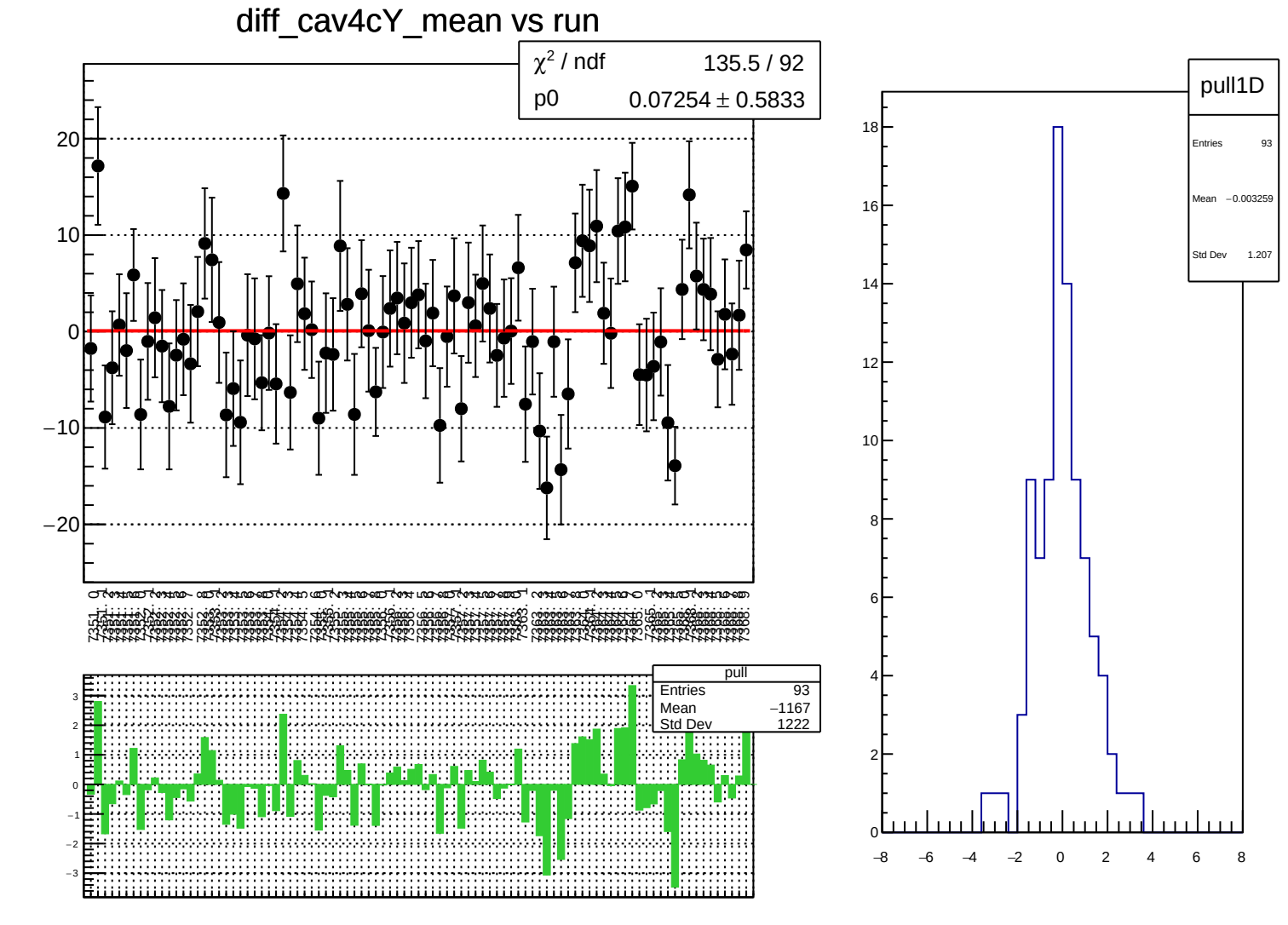

pull1D
Entries 93
Mean −0.001441
Std Dev 1.162

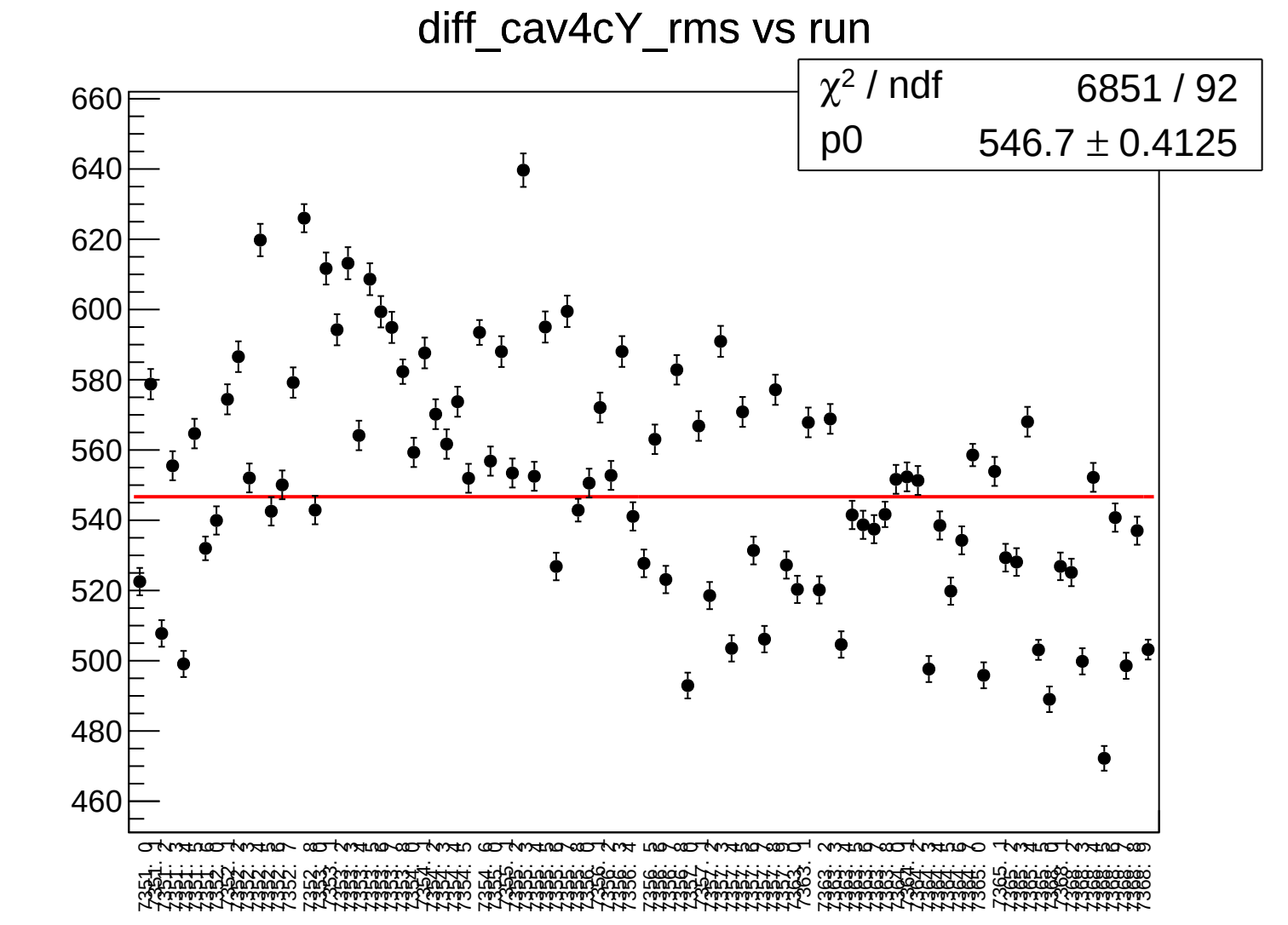

diff_cav4bY_rms vs run
χ^2 / ndf 6177 / 92
p0 4565 ± 3.444
5400
5200
5000
4800
4600
4400
4200
4000
3800

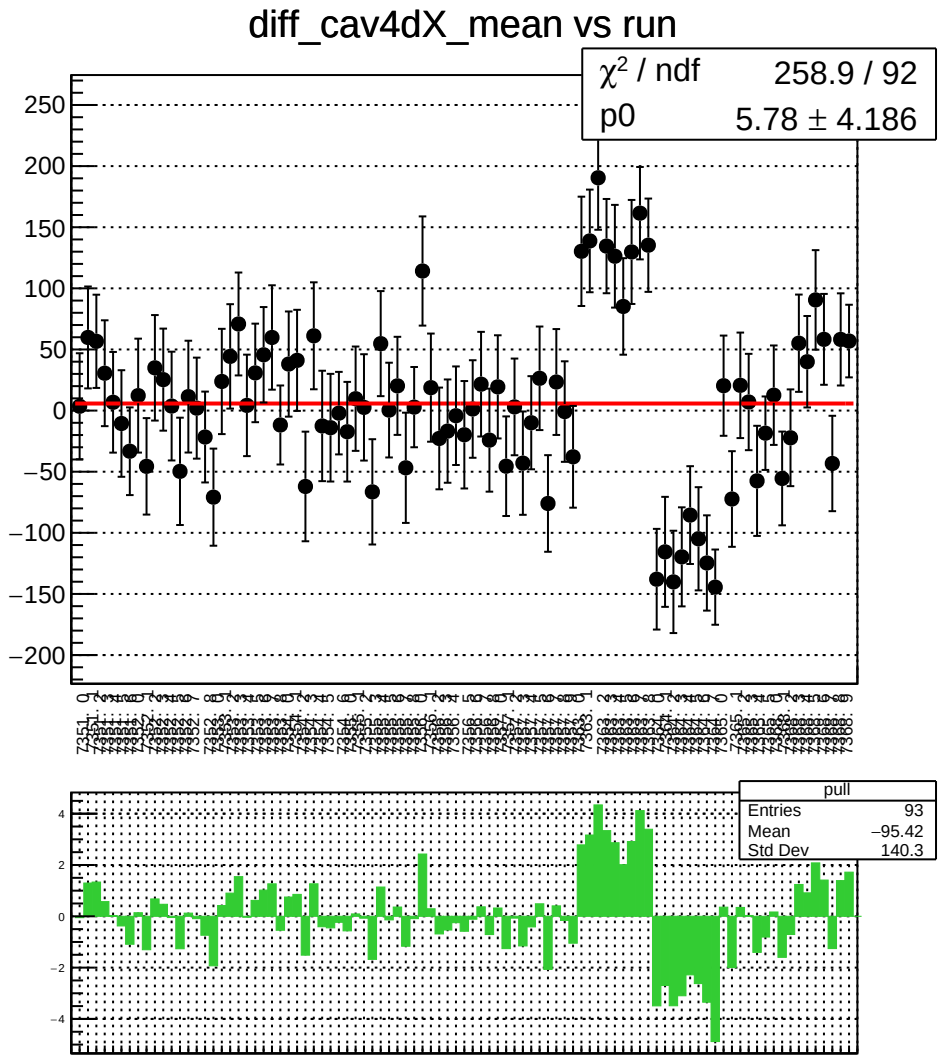

diff_cav4cX_mean vs run
χ² / ndf 257.1 / 92
p0 1.018 ± 0.7122
pull
Entries 93
Mean −89.08
Std Dev 134.3

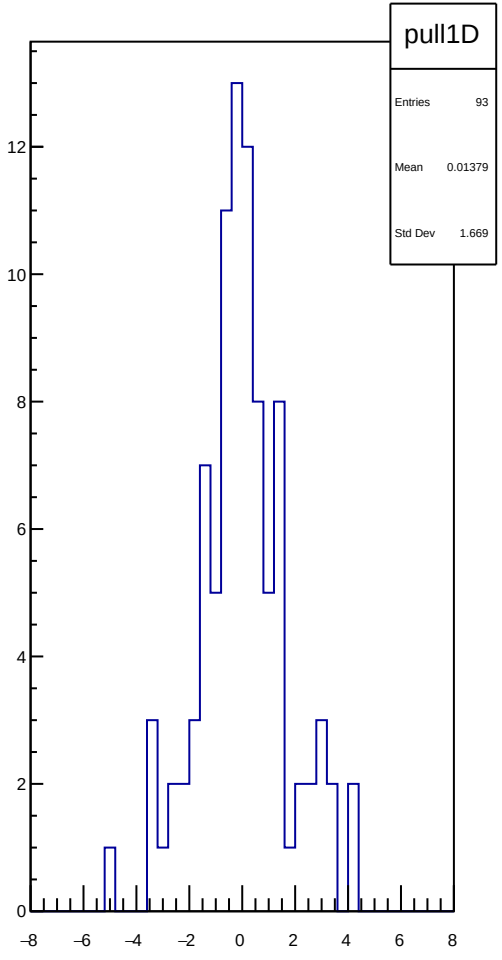

pull1D
Entries 93
Mean 0.01283
Std Dev 1.663

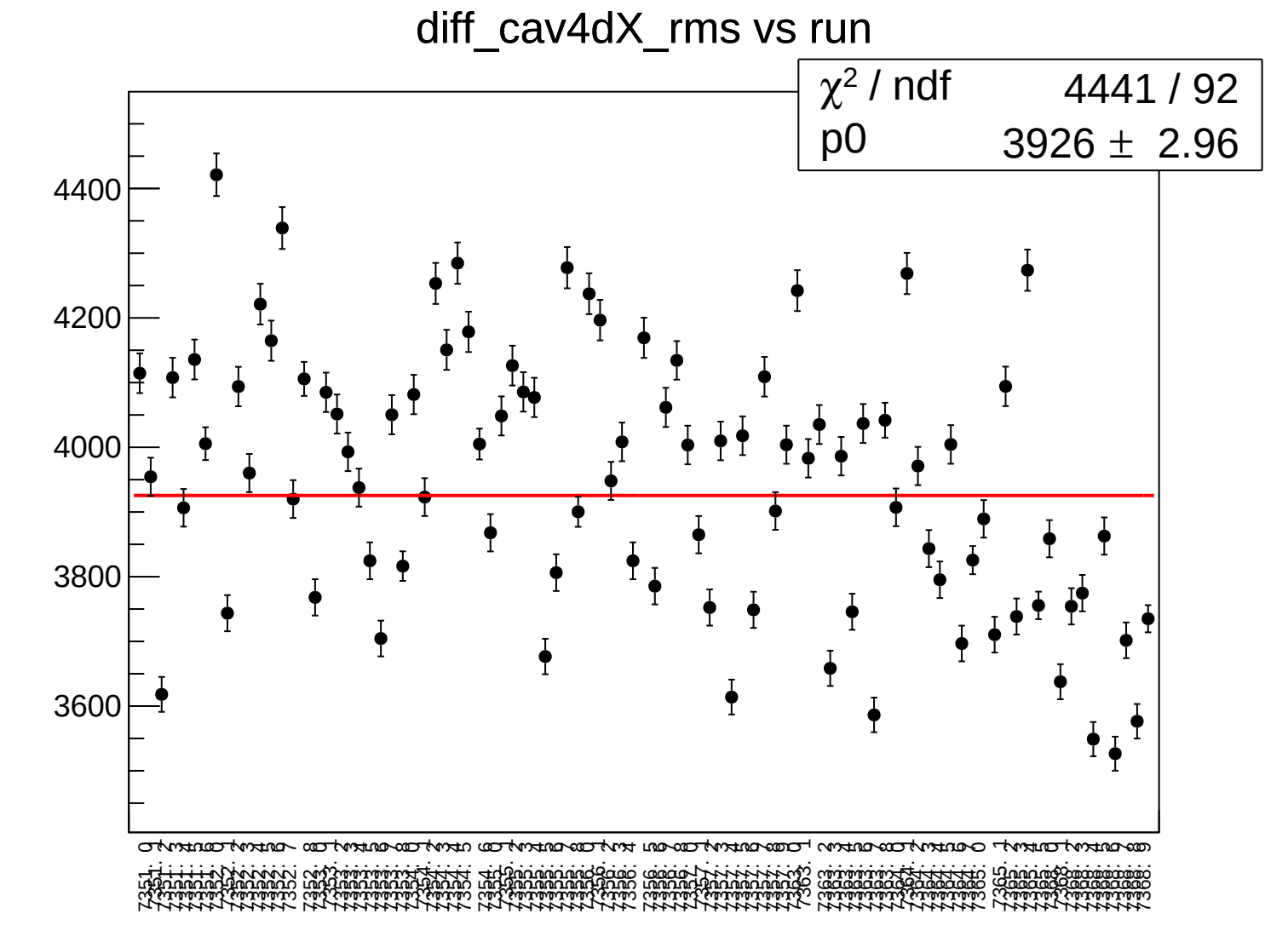

diff_cav4cX_rms vs run
χ² / ndf 4326 / 92
p0 667.9 ± 0.5036
760
740
720
700
680
660
640
620
600

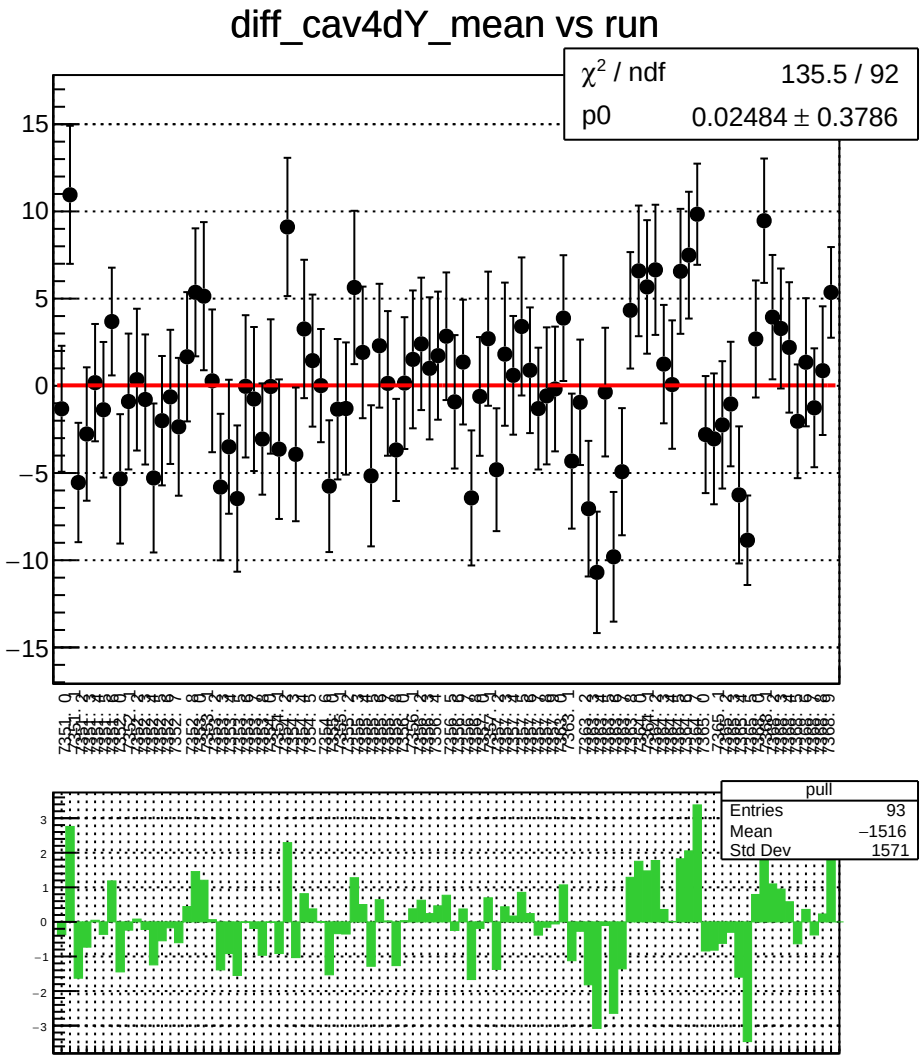

diff_cav4cY_mean vs run
χ² / ndf 135.5 / 92
p0 0.07254 ± 0.5833
pull
Entries 93
Mean −1167
Std Dev 1222
pull1D
Entries 93
Mean −0.003259
Std Dev 1.207

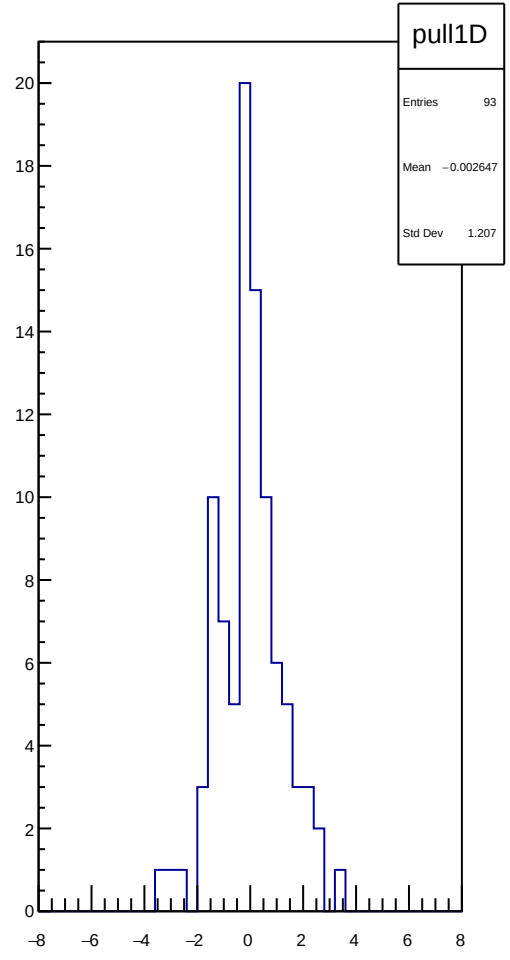

diff_cav4cY_rms vs run
χ² / ndf 6851 / 92
p0 546.7 ± 0.4125
660
640
620
600
580
560
540
520
500
480
460

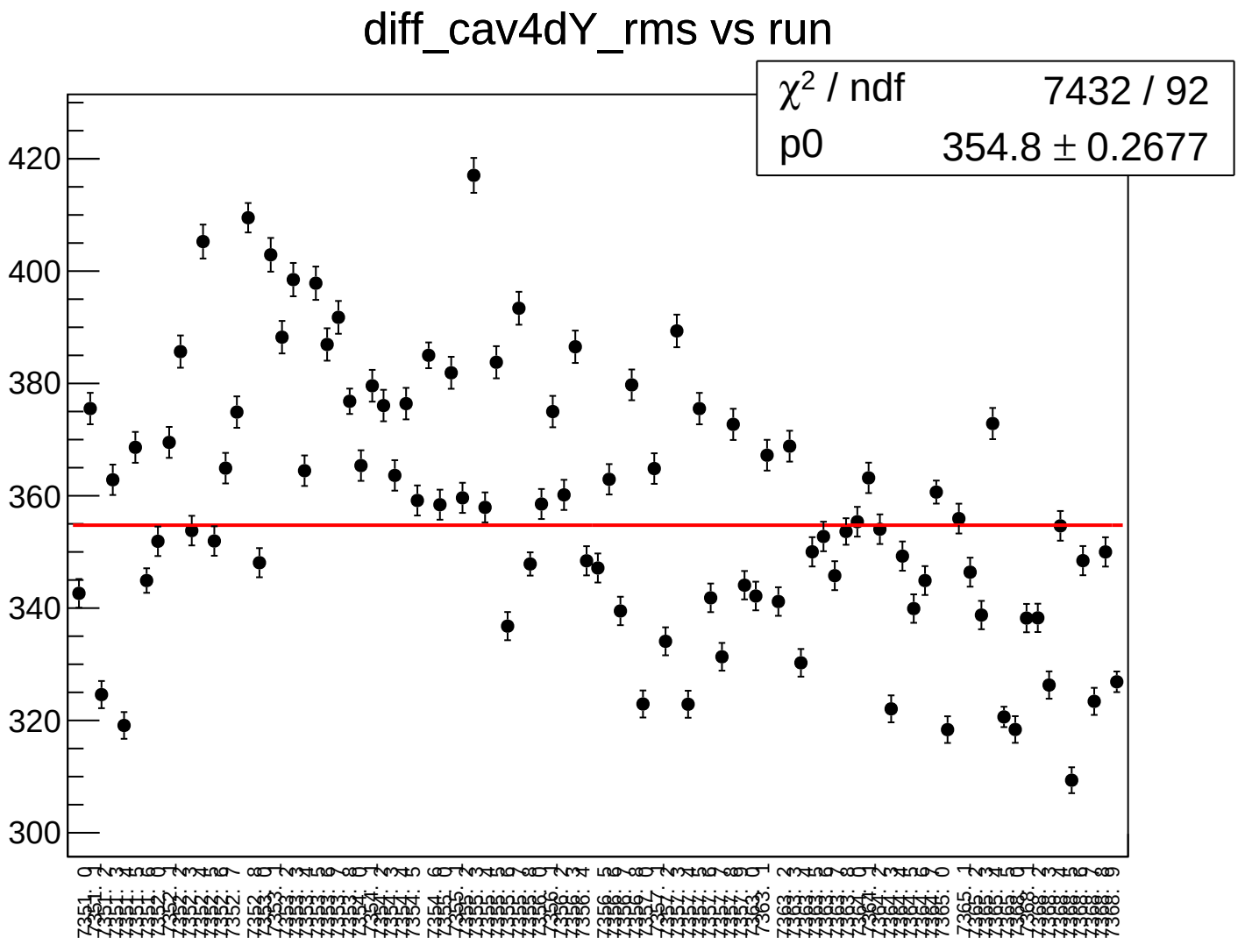

diff_cav4dX_mean vs run
χ² / ndf 258.9 / 92
p0 5.78 ± 4.186
pull
Entries 93
Mean −95.42
Std Dev 140.3

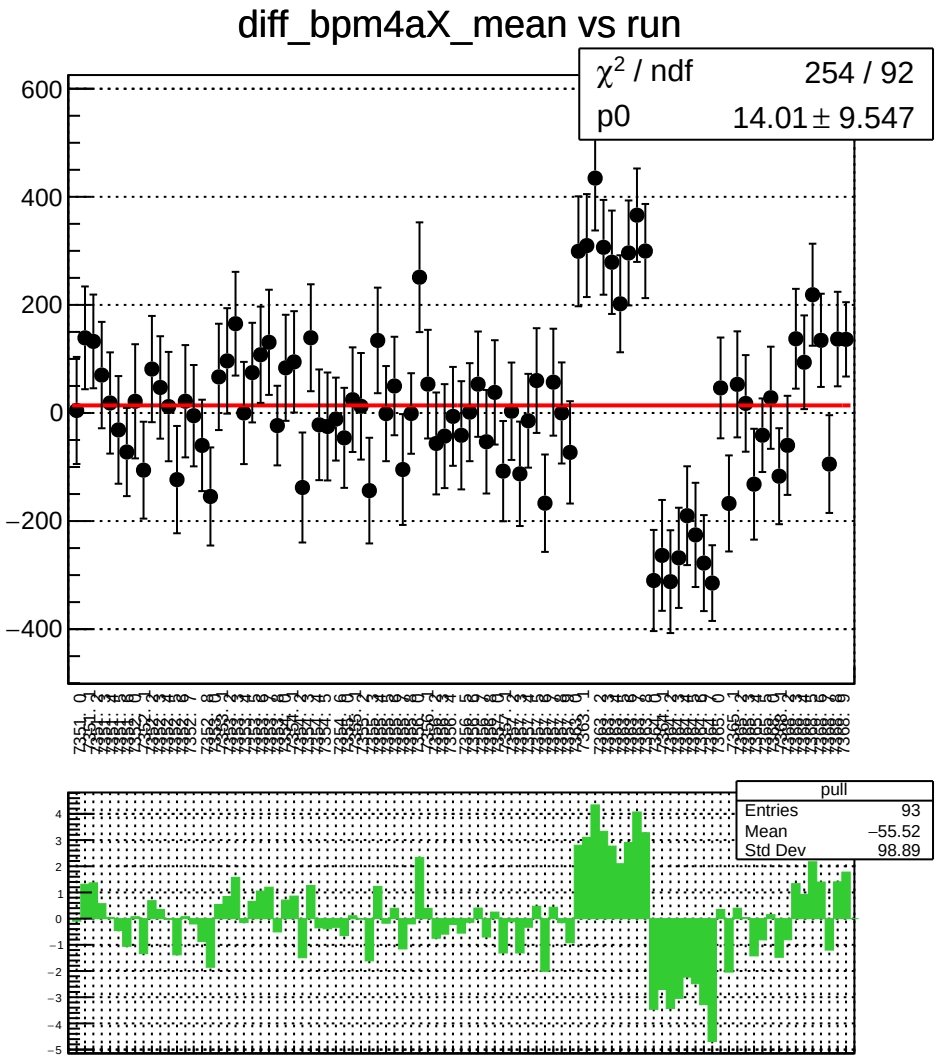

pull1D
Entries 93
Mean 0.01379
Std Dev 1.669

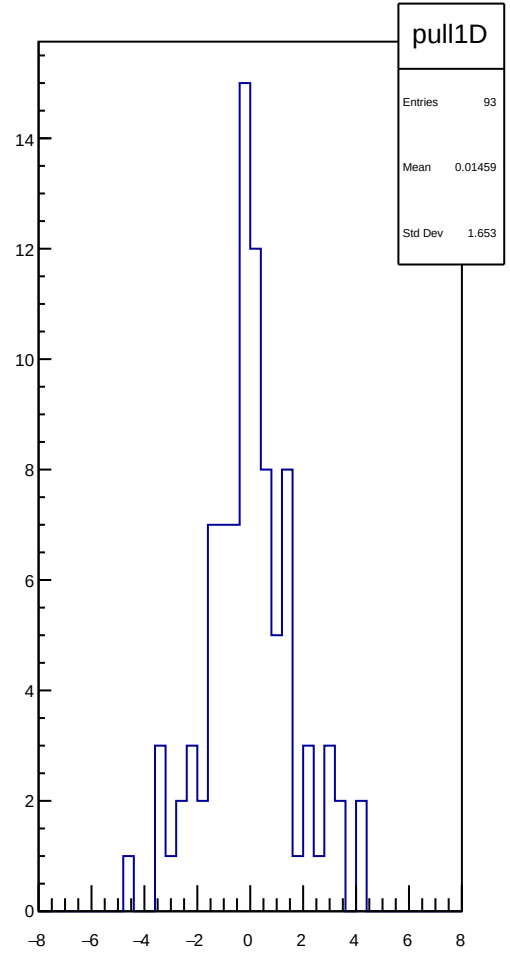

diff_cav4dX_rms vs run
χ² / ndf 4441 / 92
p0 3926 ± 2.96
4400
4200
4000
3800
3600

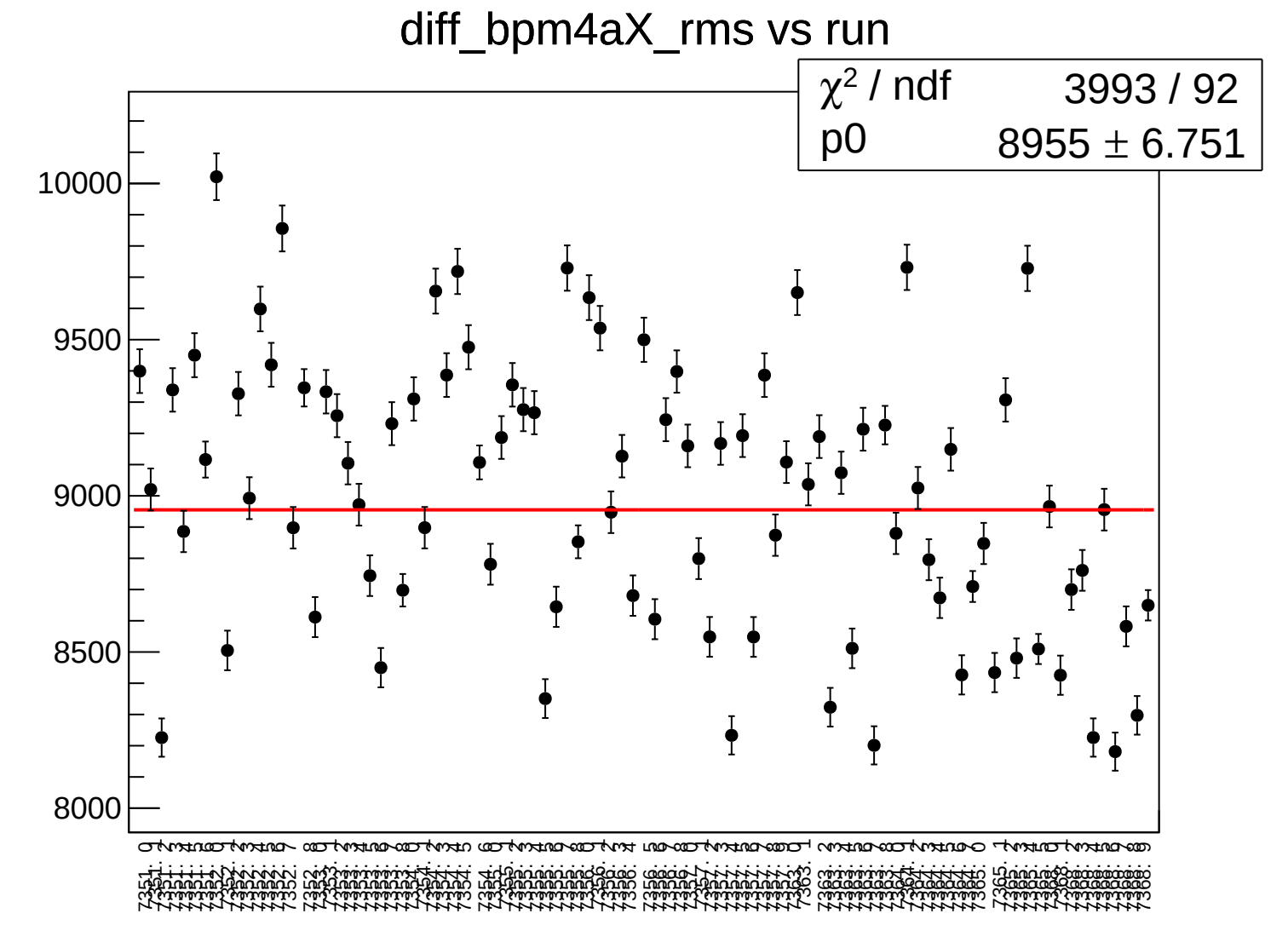

diff_cav4dY_mean vs run
χ² / ndf 135.5 / 92
p0 0.02484 ± 0.3786
pull
Entries 93
Mean −1516
Std Dev 1571

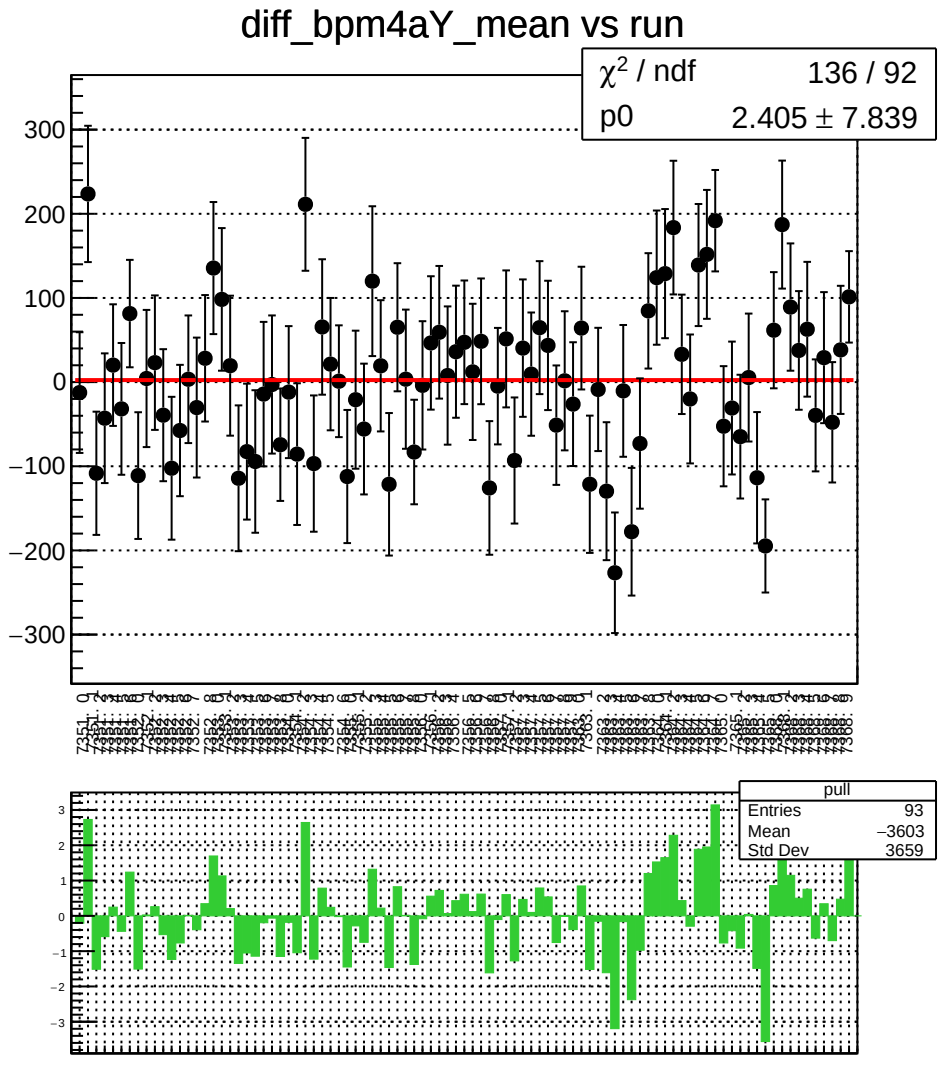

pull1D
Entries 93
Mean −0.002647
Std Dev 1.207

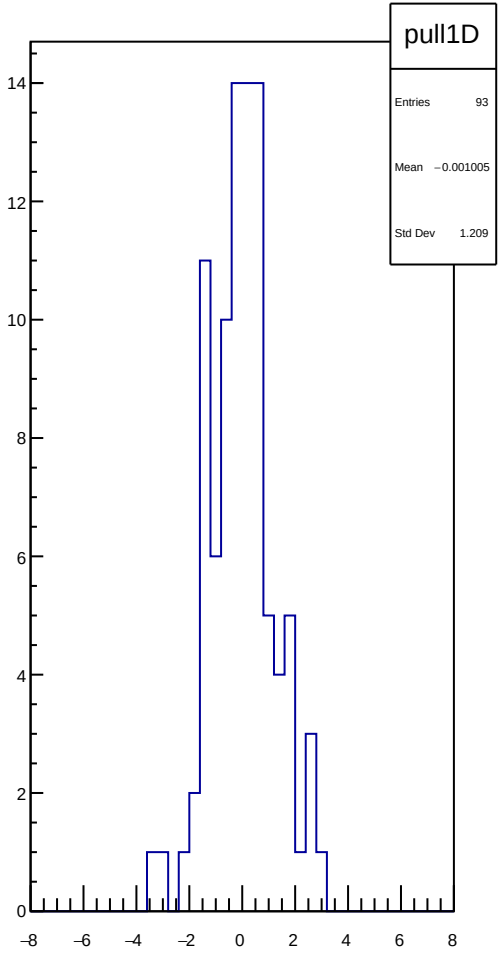

diff_cav4dY_rms vs run
χ² / ndf 7432 / 92
p0 354.8 ± 0.2677
420
400
380
360
340
320
300

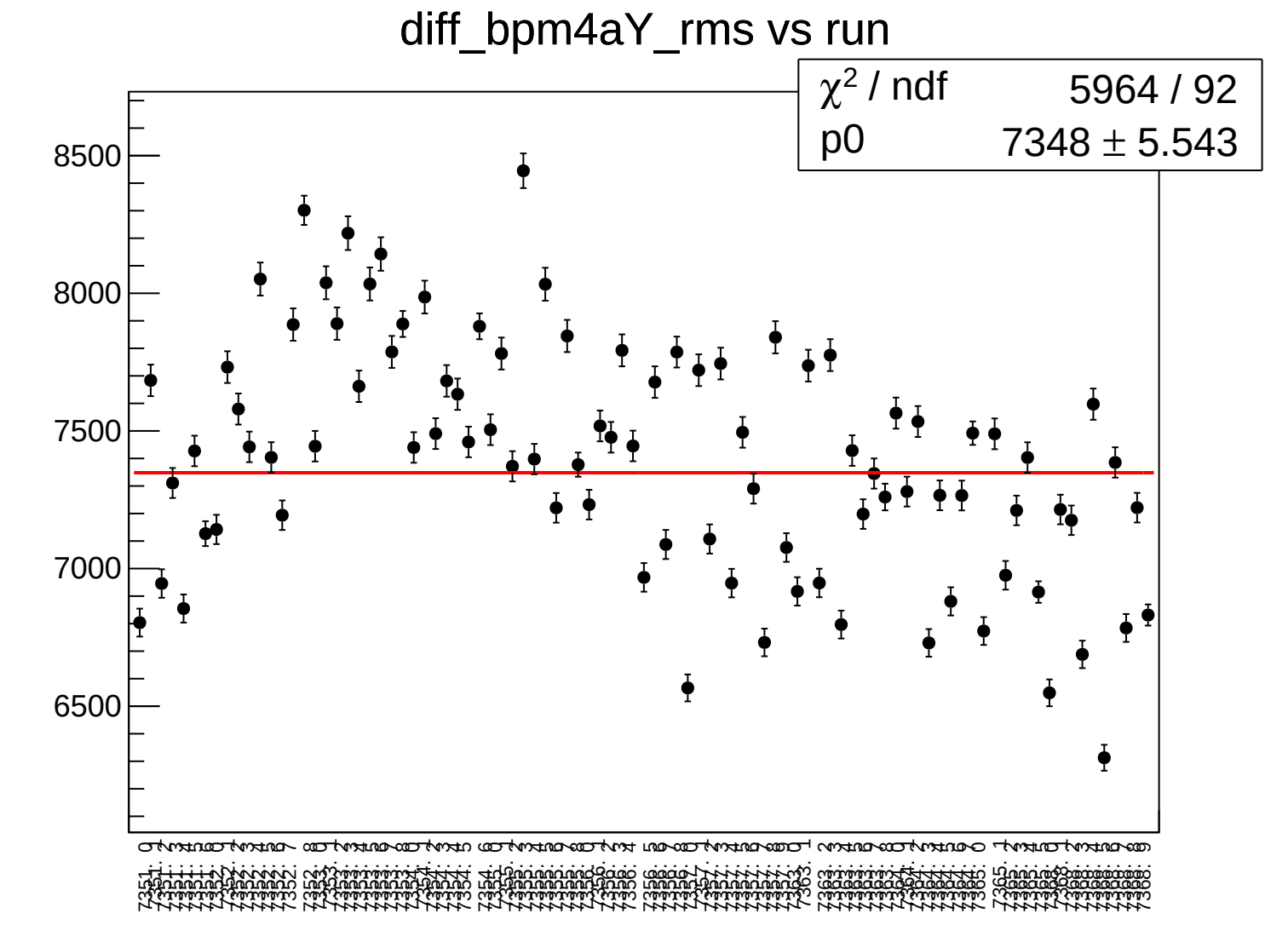

diff_bpm4aX_mean vs run
χ^2 / ndf 254 / 92
p0 14.01 ± 9.547
pull
Entries 93
Mean −55.52
Std Dev 98.89

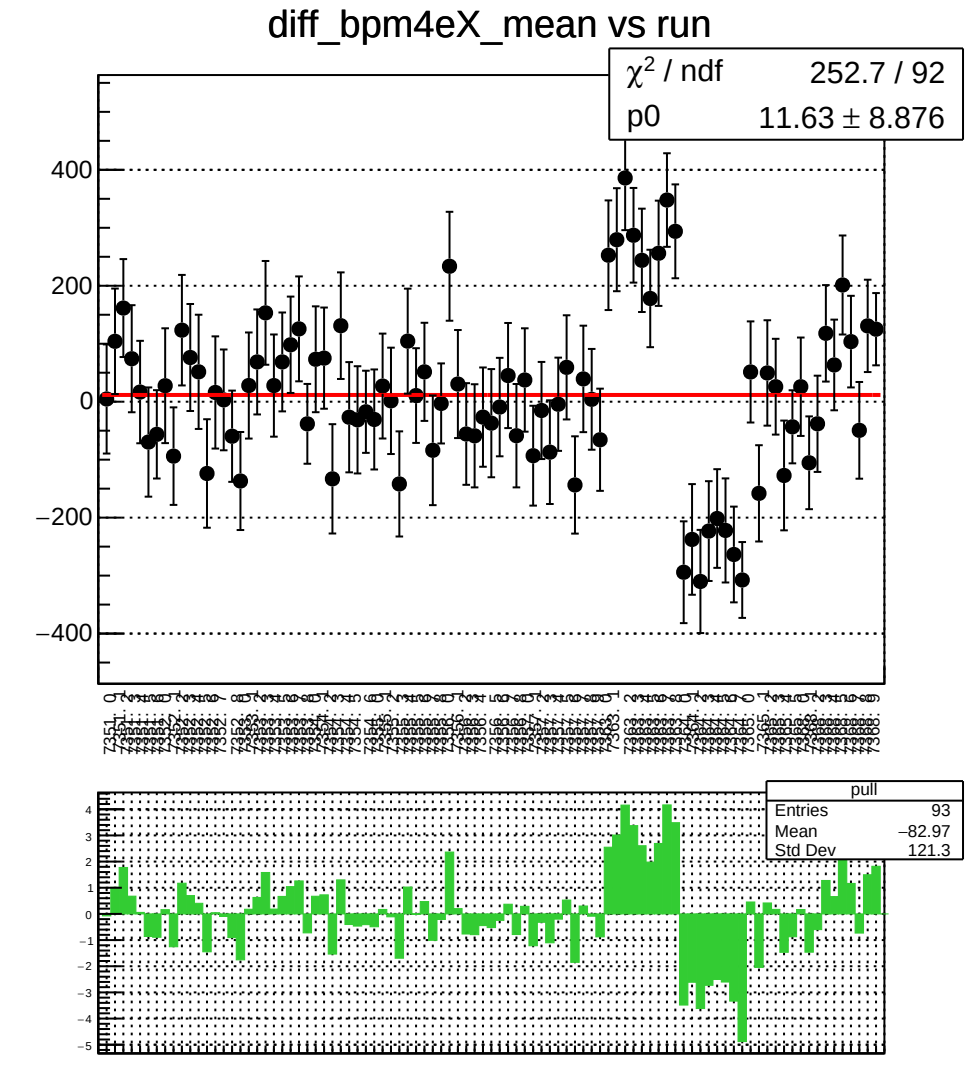

pull1D
Entries 93
Mean 0.01459
Std Dev 1.653

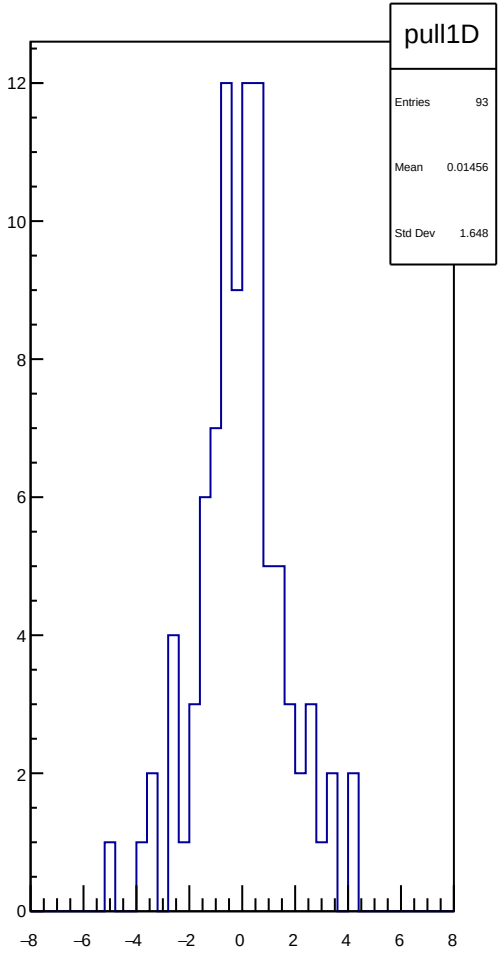

diff_bpm4aX_rms vs run
χ² / ndf 3993 / 92
p0 8955 ± 6.751
10000
9500
9000
8500
8000

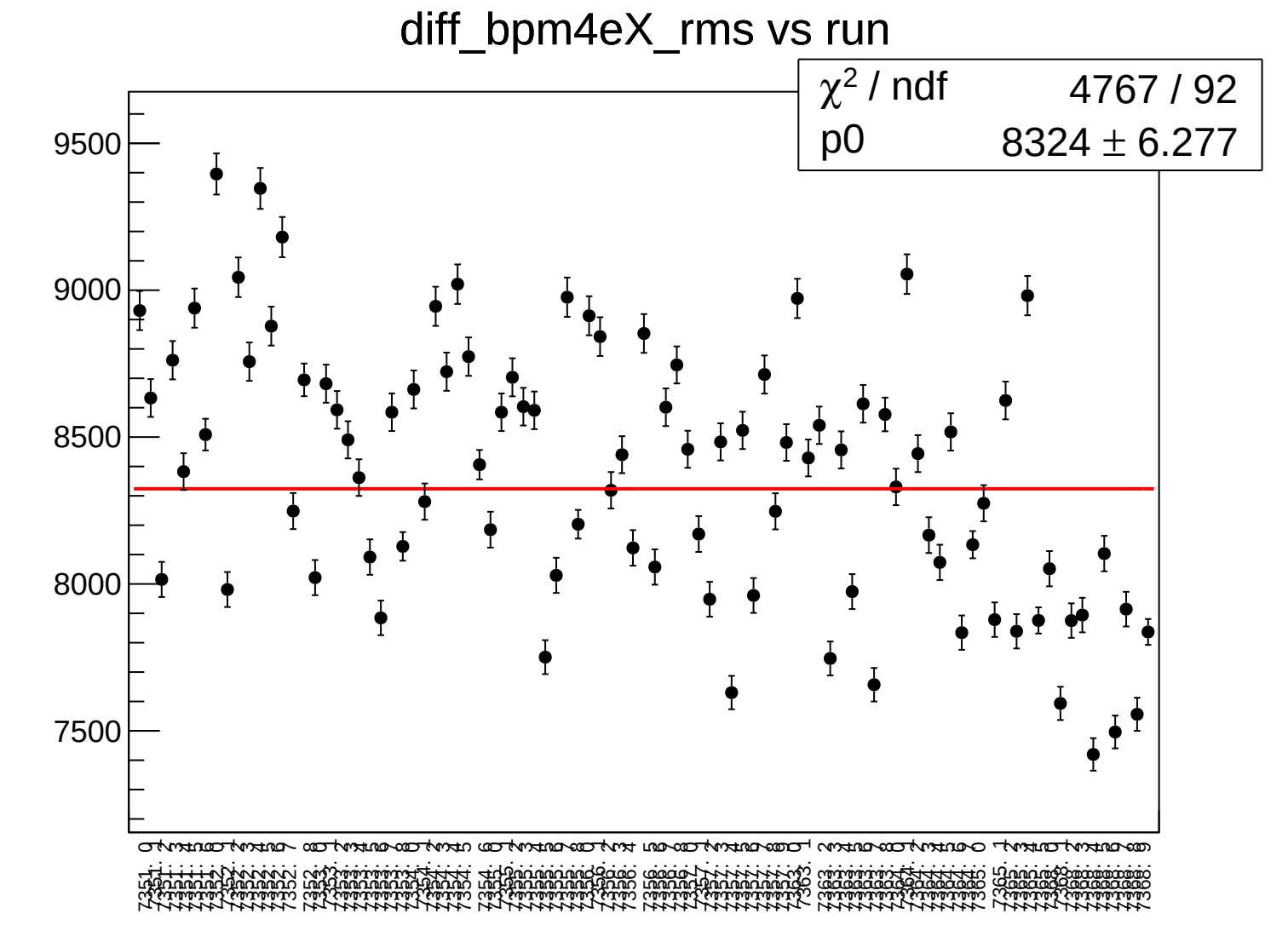

diff_bpm4aY_mean vs run
χ² / ndf 136 / 92
p0 2.405 ± 7.839
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −3603
Std Dev 3659
3
2
1
0
−1
−2
−3

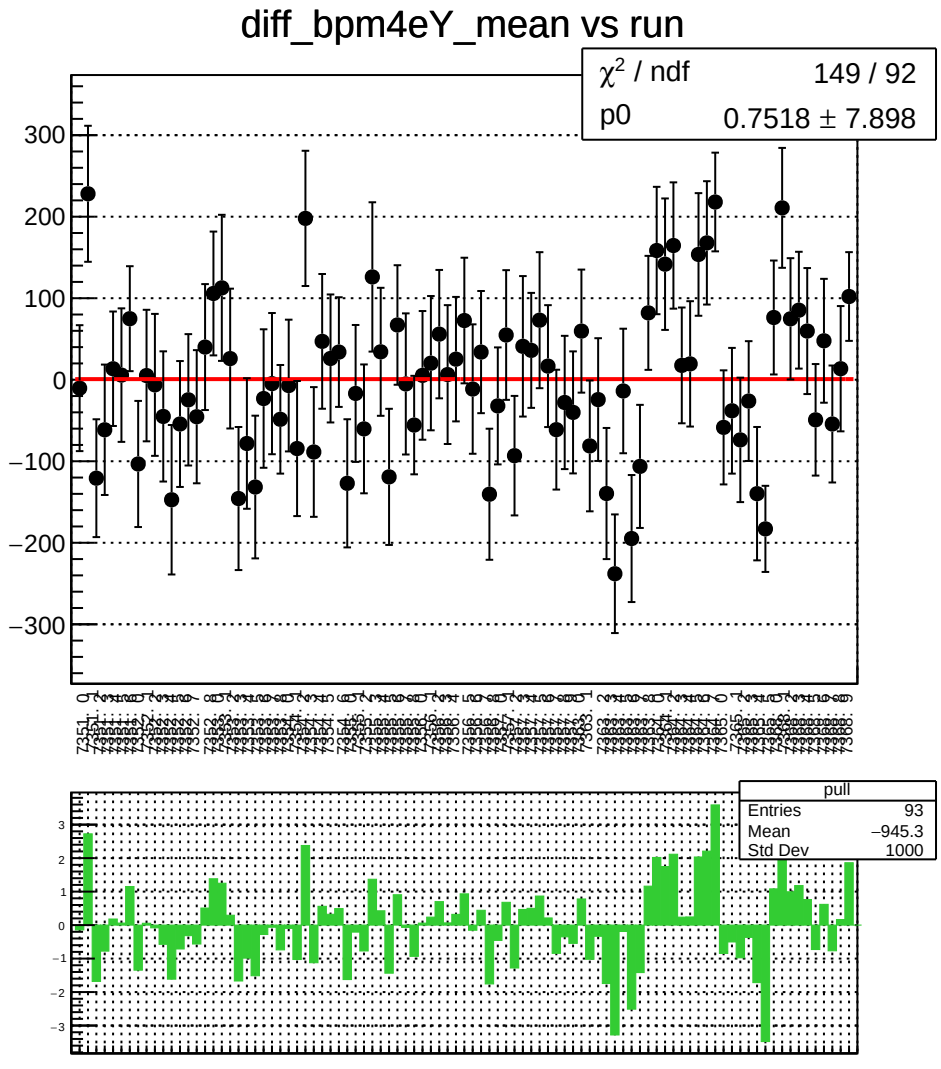

pull1D
Entries 93
Mean −0.001005
Std Dev 1.209
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

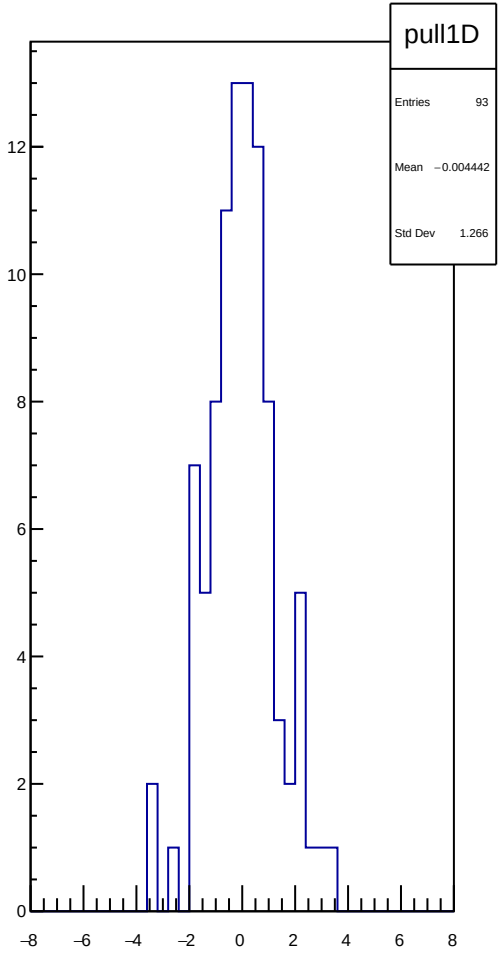

diff_bpm4aY_rms vs run
χ^2 / ndf 5964 / 92
p0 7348 ± 5.543
8500
8000
7500
7000
6500

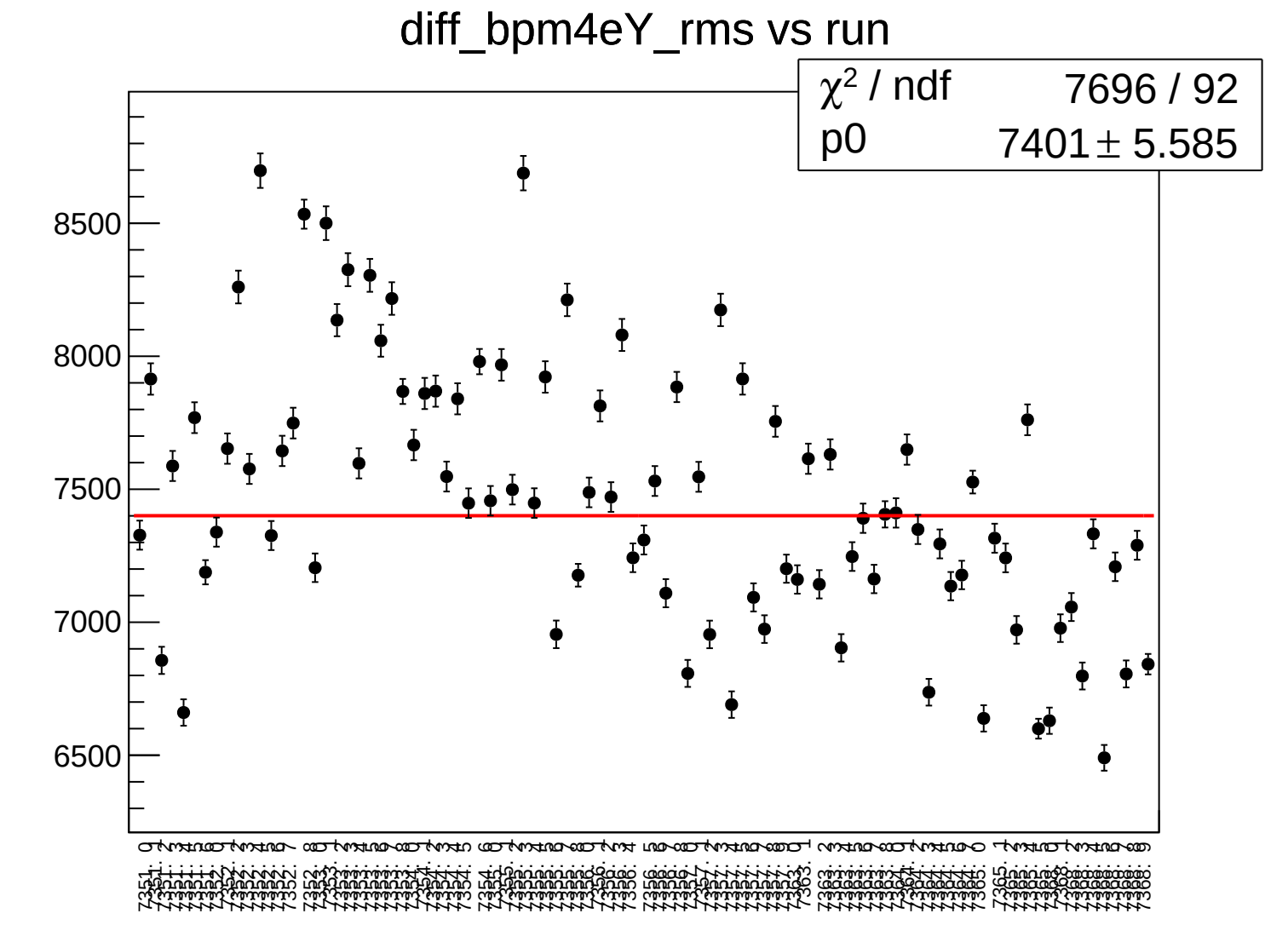

diff_bpm4eX_mean vs run
χ² / ndf 252.7 / 92
p0 11.63 ± 8.876
pull
Entries 93
Mean −82.97
Std Dev 121.3

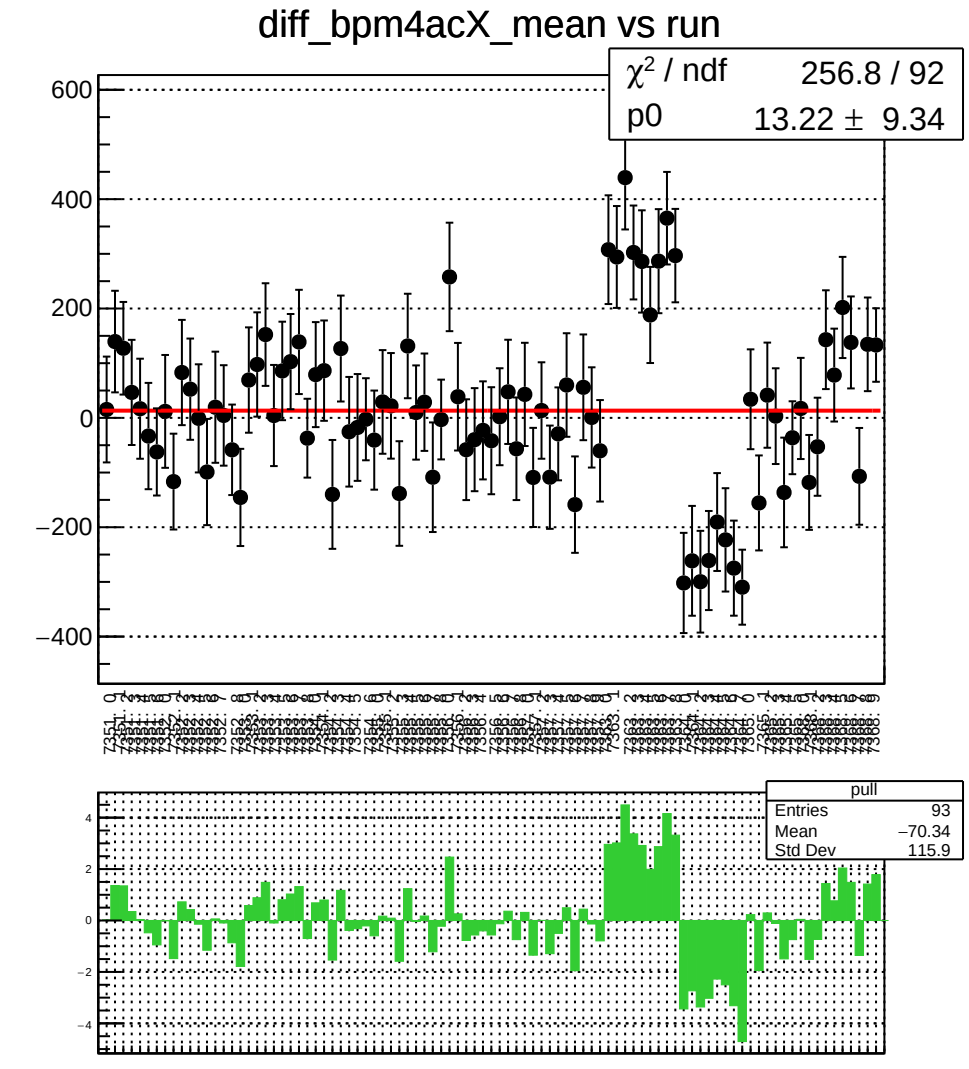

pull1D
Entries 93
Mean 0.01456
Std Dev 1.648

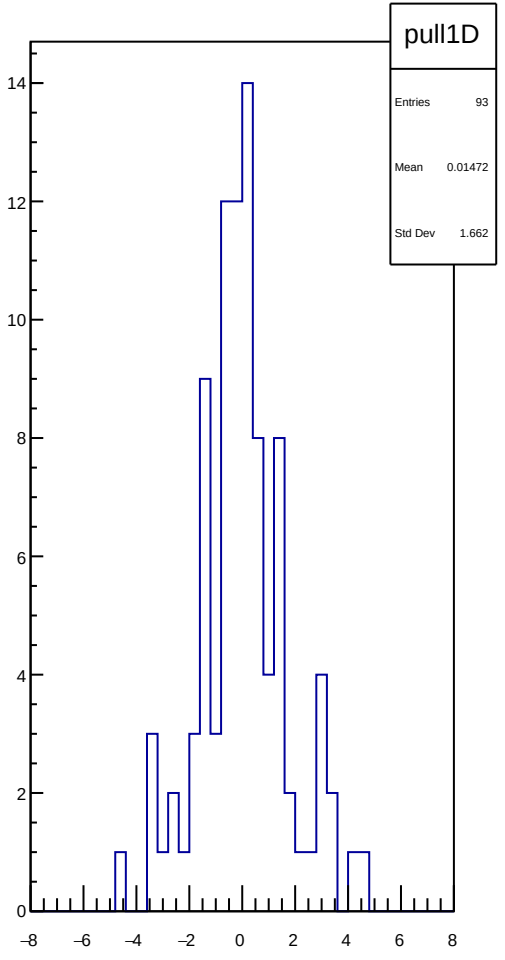

diff_bpm4eX_rms vs run
χ^2 / ndf 4767 / 92
p0 8324 ± 6.277
9500
9000
8500
8000
7500

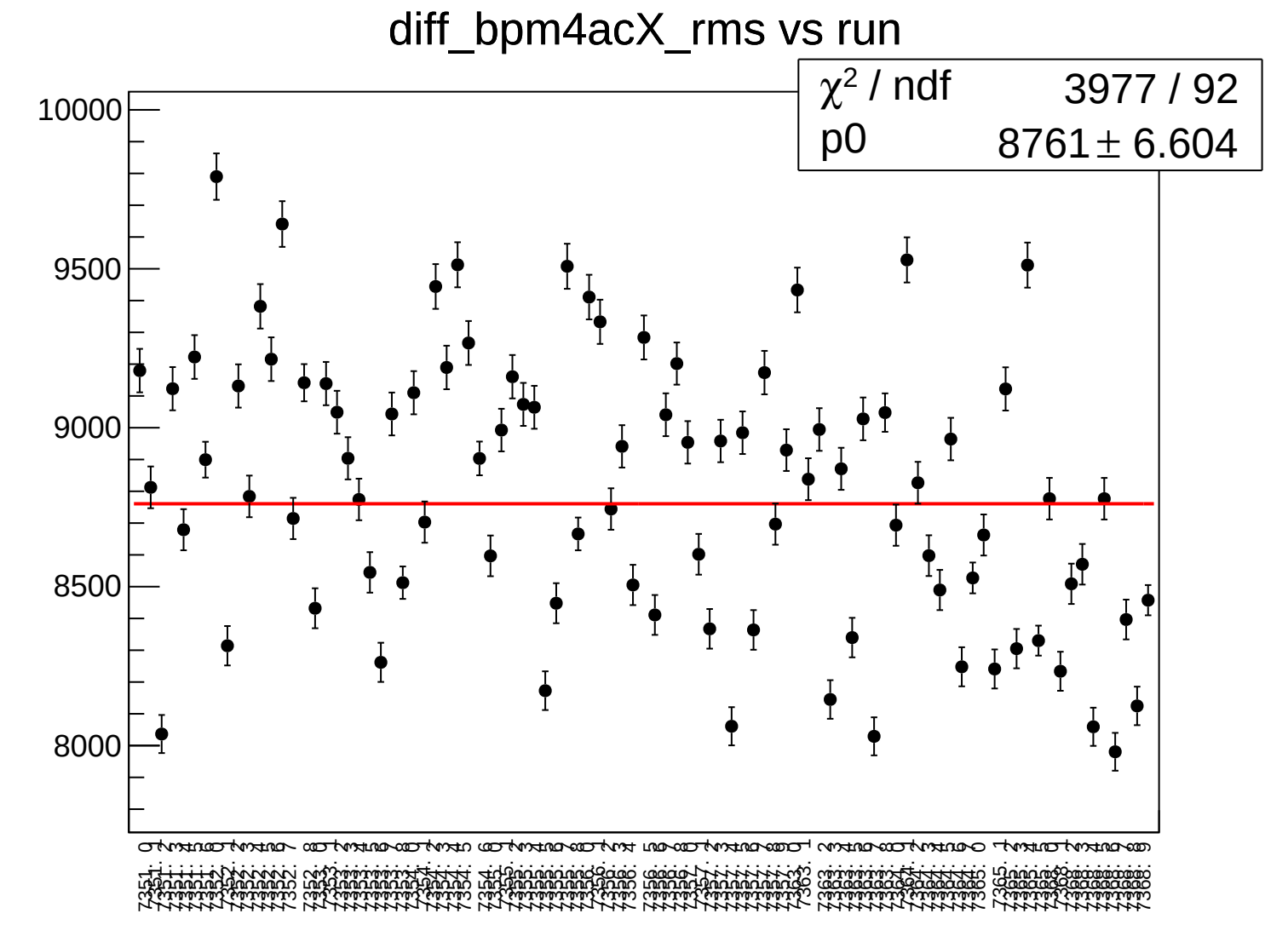

diff_bpm4eY_mean vs run
χ² / ndf 149 / 92
p0 0.7518 ± 7.898
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −945.3
Std Dev 1000
3
2
1
0
−1
−2
−3

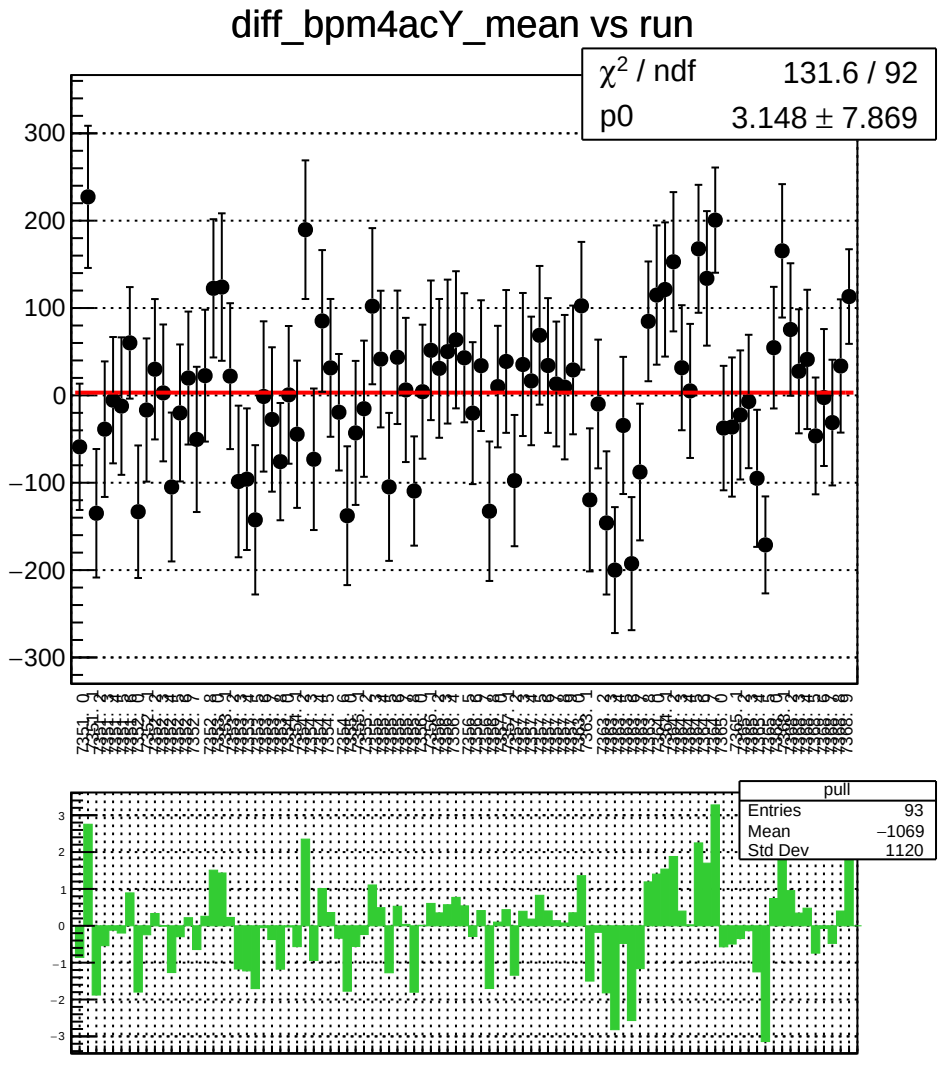

pull1D
Entries 93
Mean −0.004442
Std Dev 1.266
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

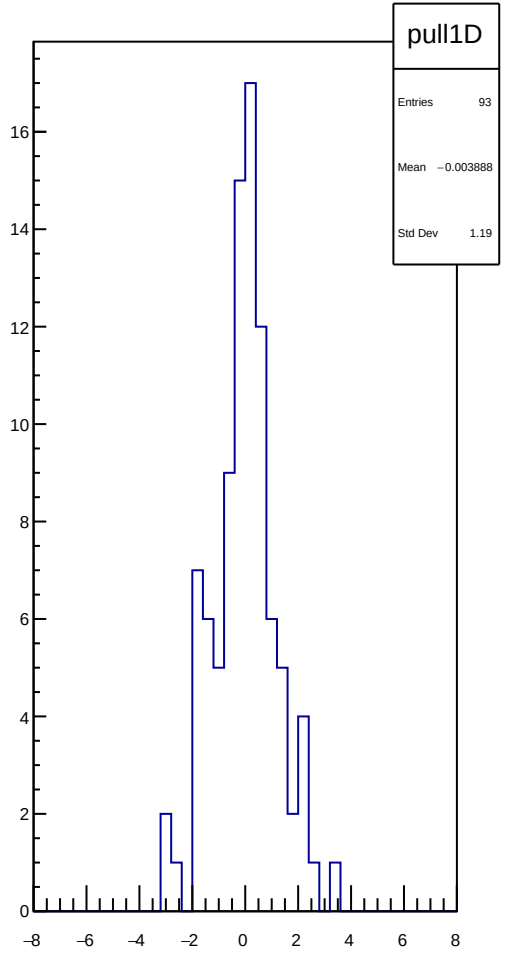

diff_bpm4eY_rms vs run
χ² / ndf 7696 / 92
p0 7401 ± 5.585
8500
8000
7500
7000
6500

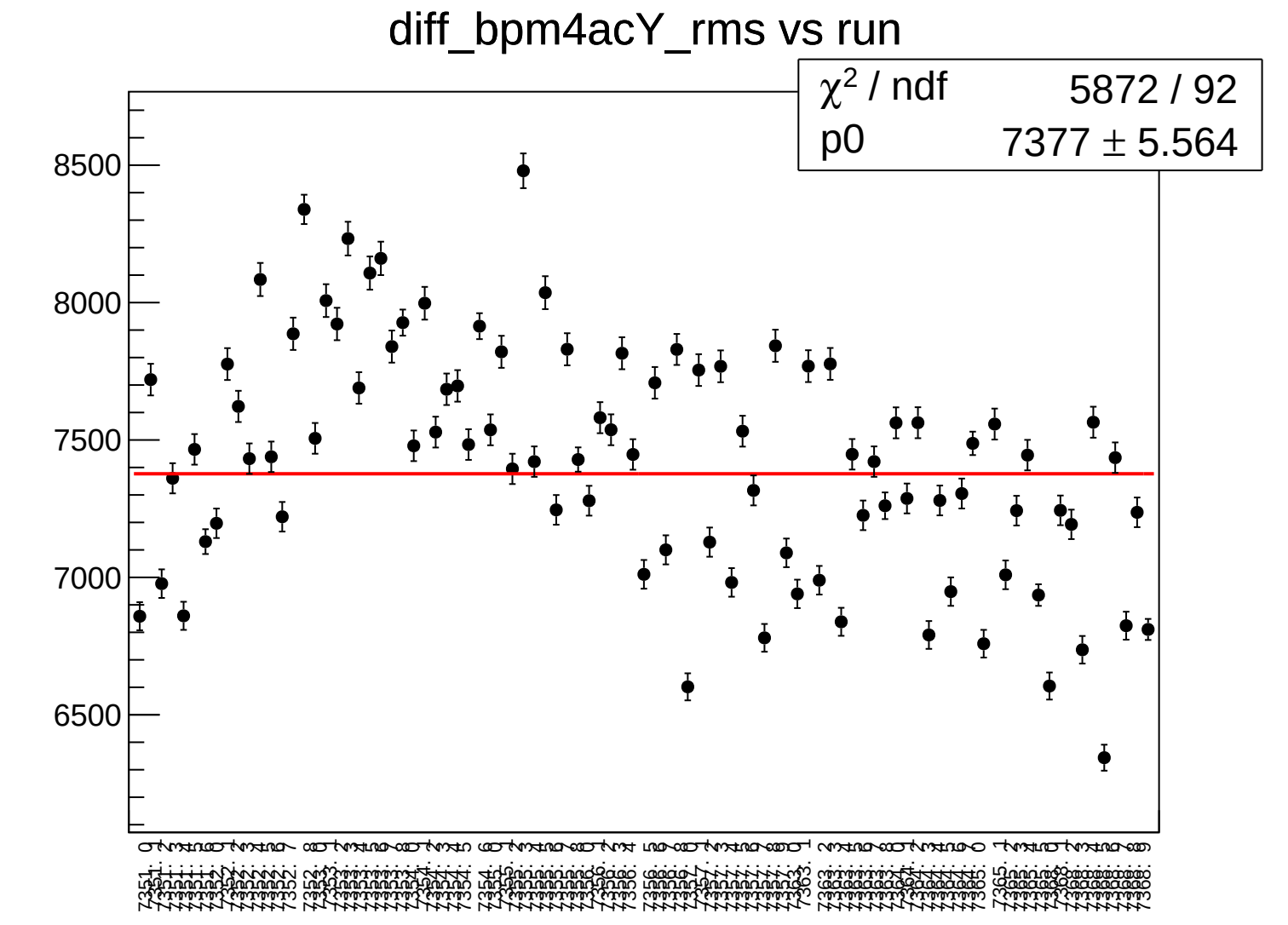

diff_bpm4acX_mean vs run
χ² / ndf 256.8 / 92
p0 13.22 ± 9.34
pull
Entries 93
Mean −70.34
Std Dev 115.9

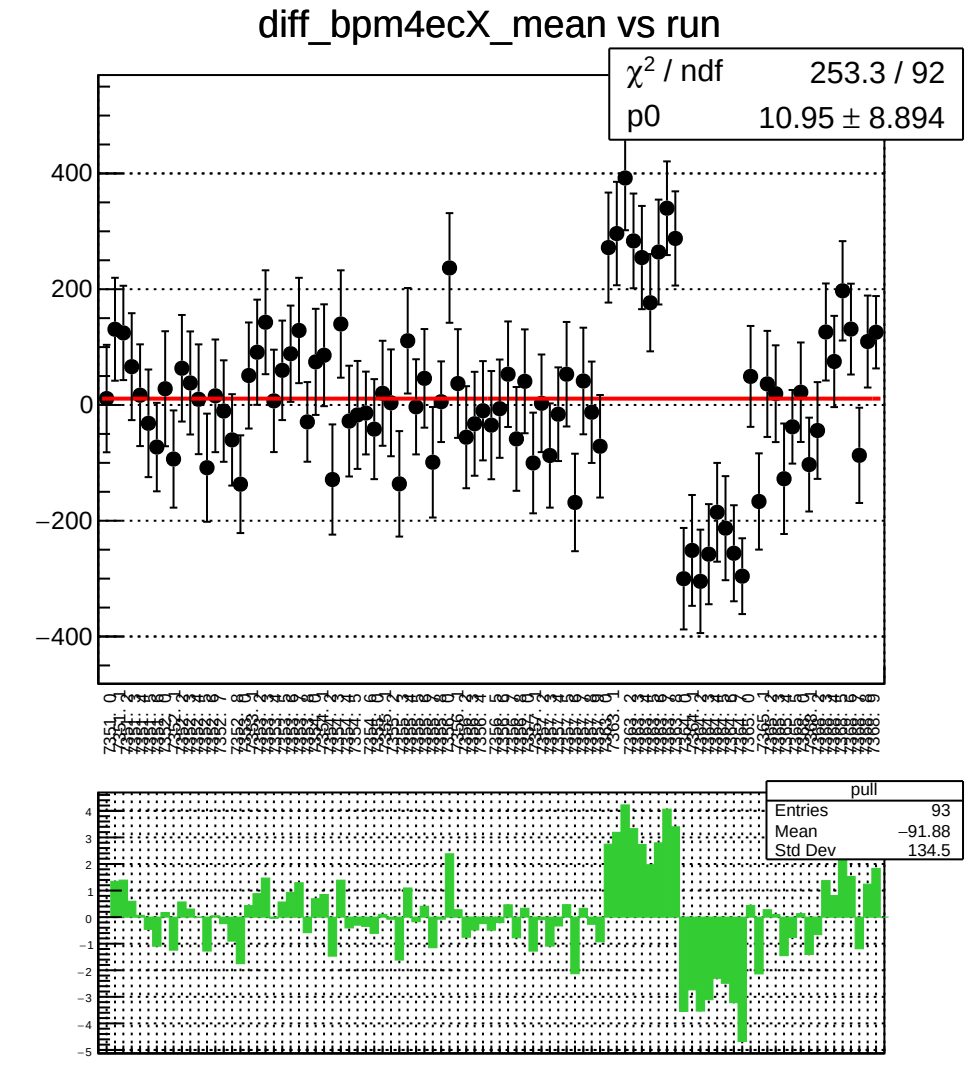

pull1D
Entries 93
Mean 0.01472
Std Dev 1.662

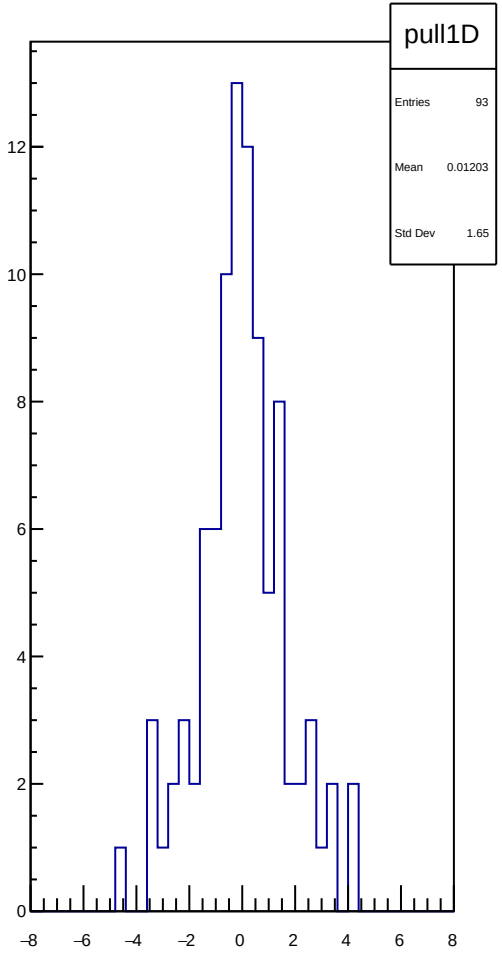

diff_bpm4acX_rms vs run
χ² / ndf 3977 / 92
p0 8761 ± 6.604
10000
9500
9000
8500
8000

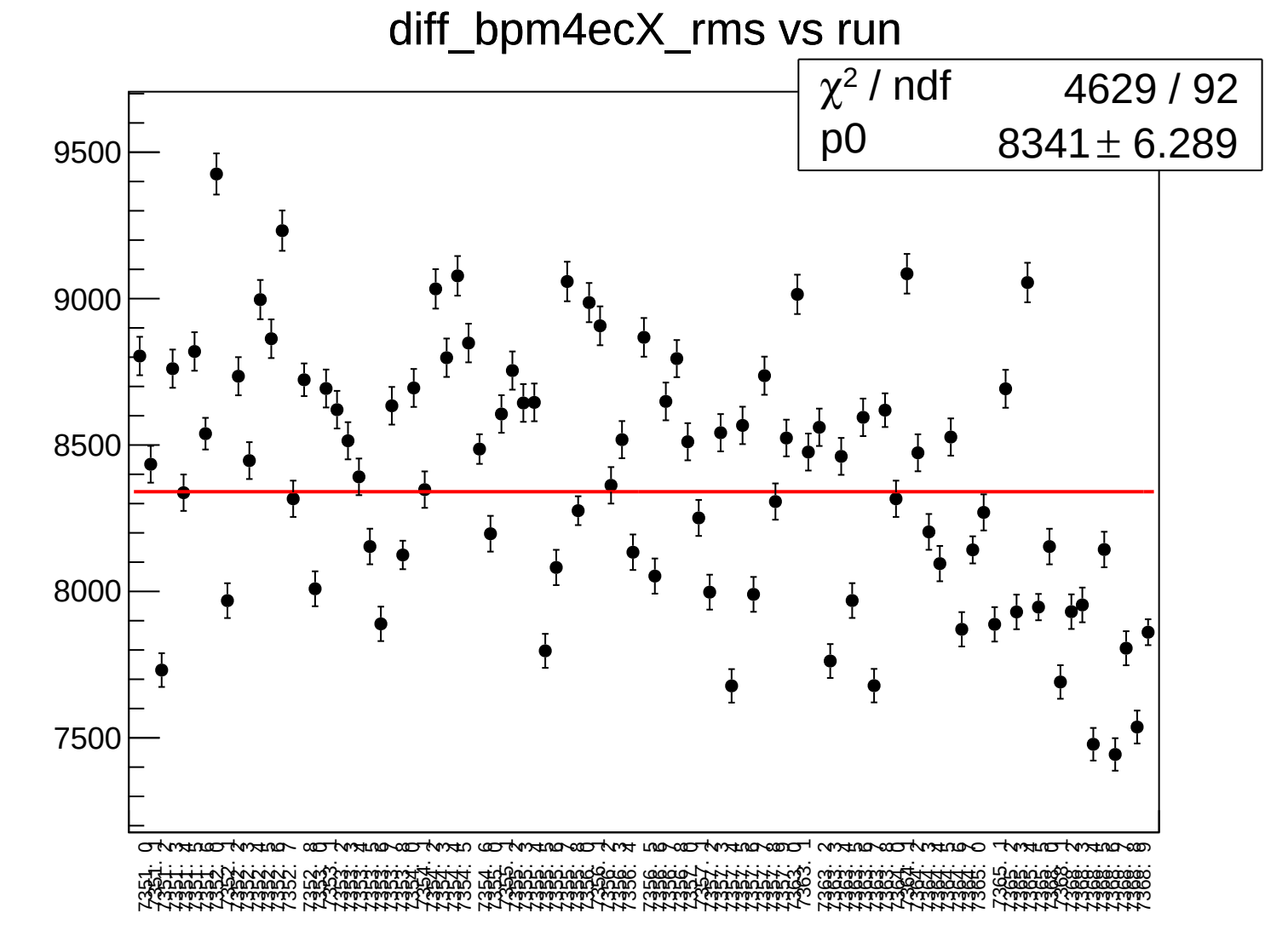

diff_bpm4acY_mean vs run
χ² / ndf 131.6 / 92
p0 3.148 ± 7.869
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −1069
Std Dev 1120
3
2
1
0
−1
−2
−3

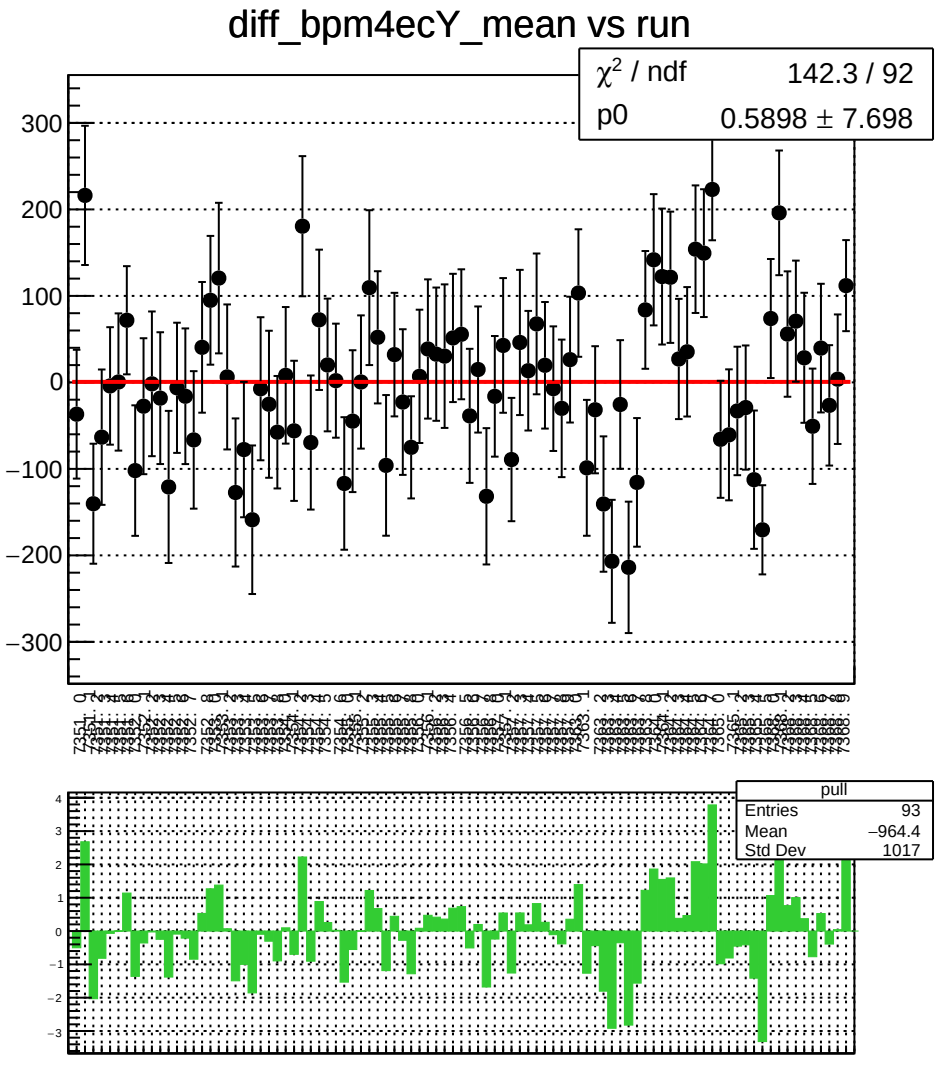

pull1D
Entries 93
Mean −0.003888
Std Dev 1.19
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

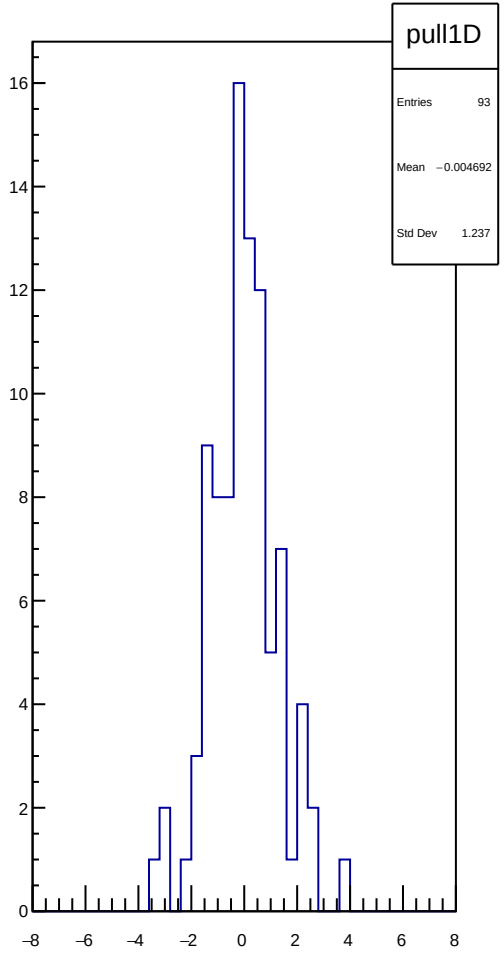

diff_bpm4acY_rms vs run
χ² / ndf 5872 / 92
p0 7377 ± 5.564
8500
8000
7500
7000
6500

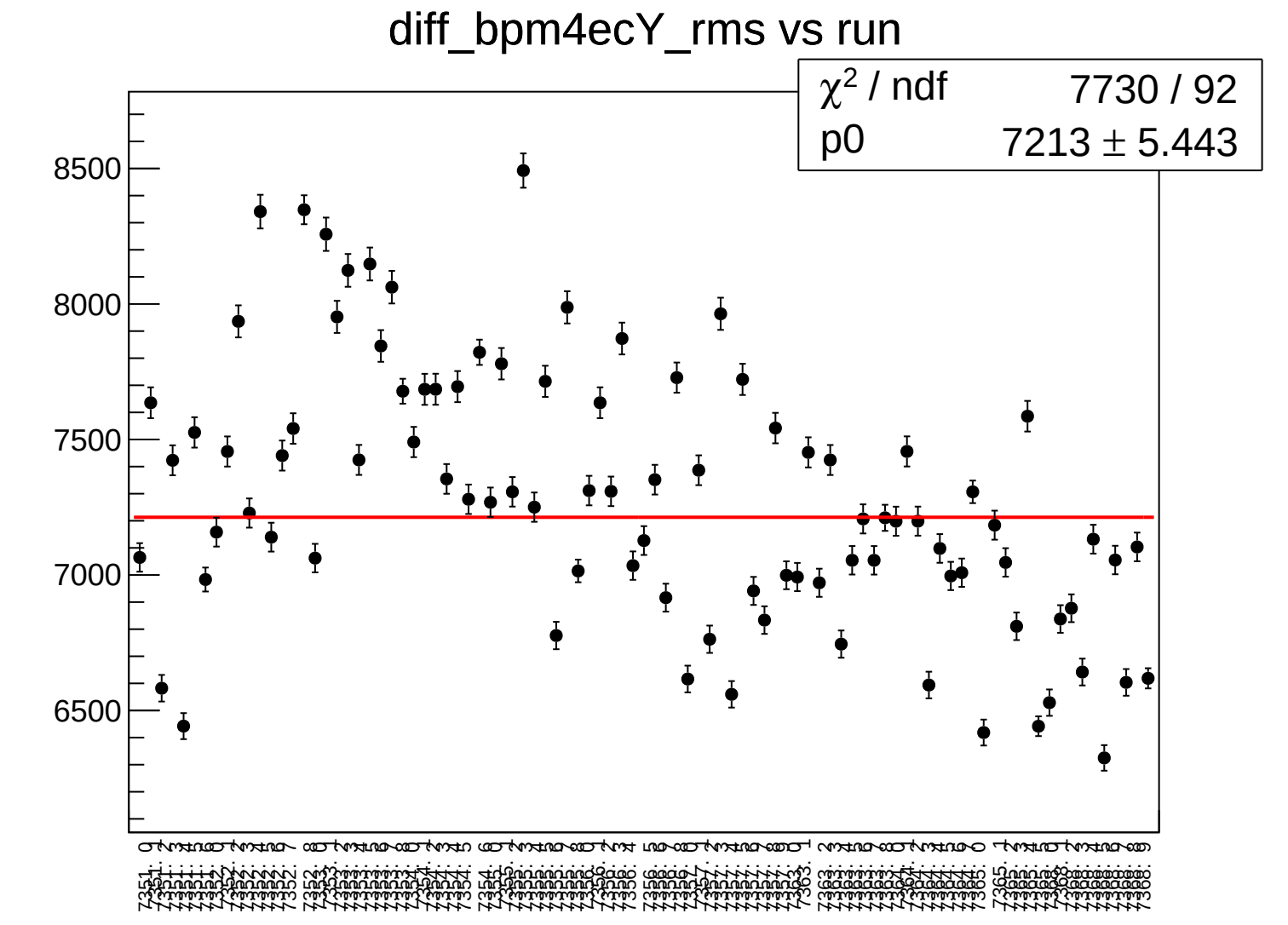

diff_bpm4ecX_mean vs run
χ² / ndf 253.3 / 92
p0 10.95 ± 8.894
400
200
0
−200
−400
pull
Entries 93
Mean −91.88
Std Dev 134.5
4
3
2
1
0
−1
−2
−3
−4
−5

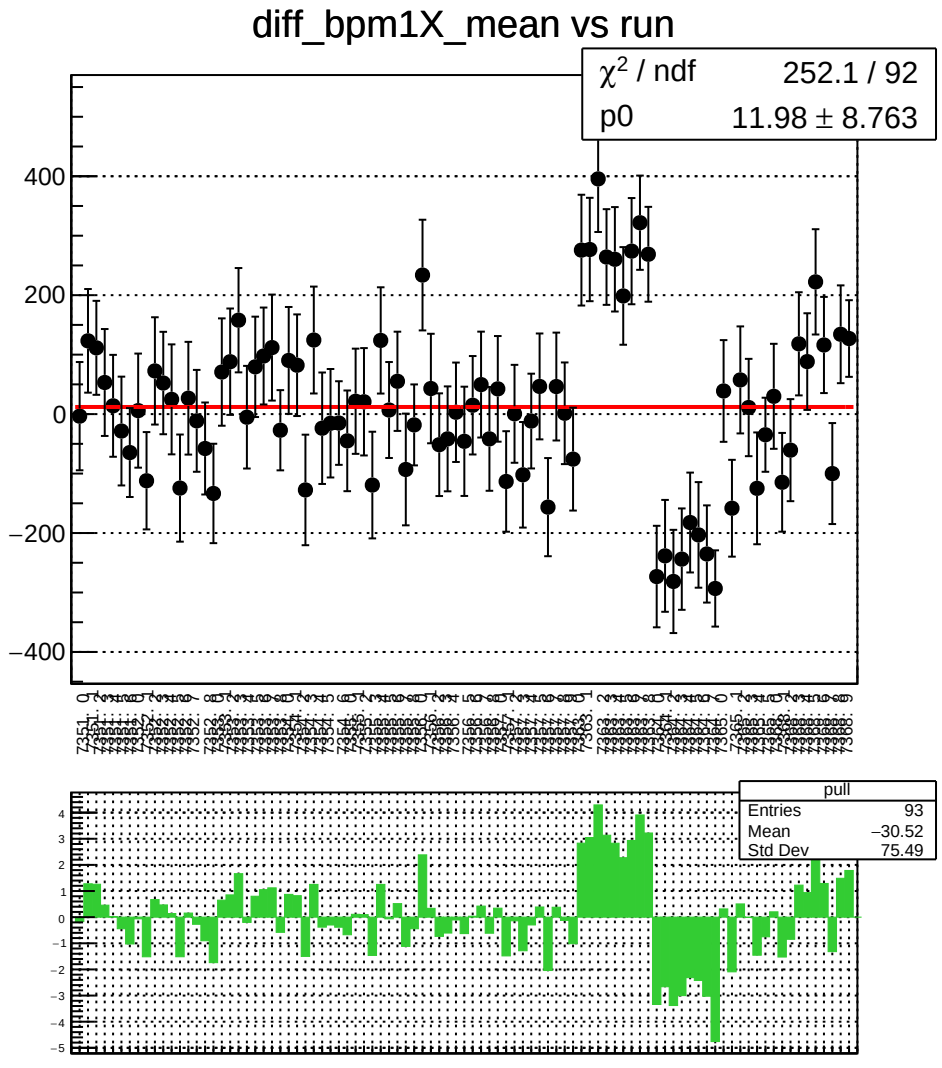

pull1D
Entries 93
Mean 0.01203
Std Dev 1.65
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

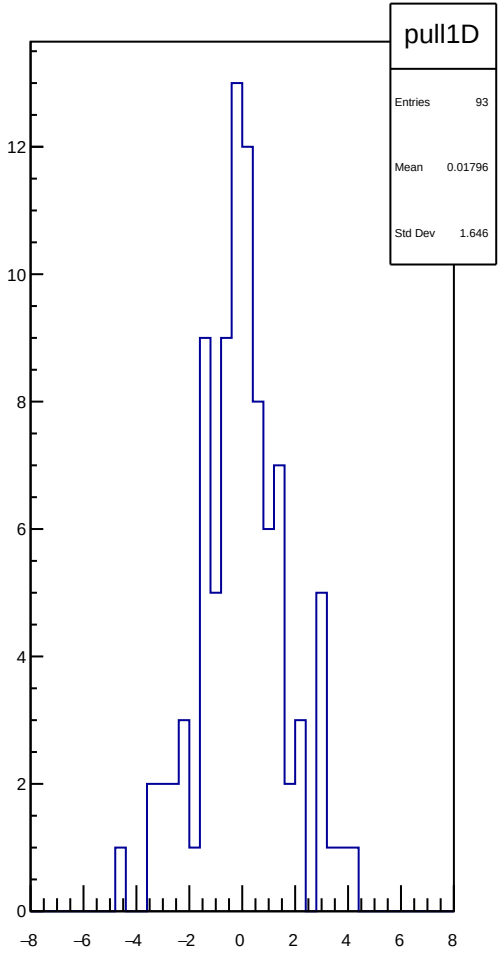

diff_bpm4ecX_rms vs run
χ² / ndf 4629 / 92
p0 8341 ± 6.289
9500
9000
8500
8000
7500

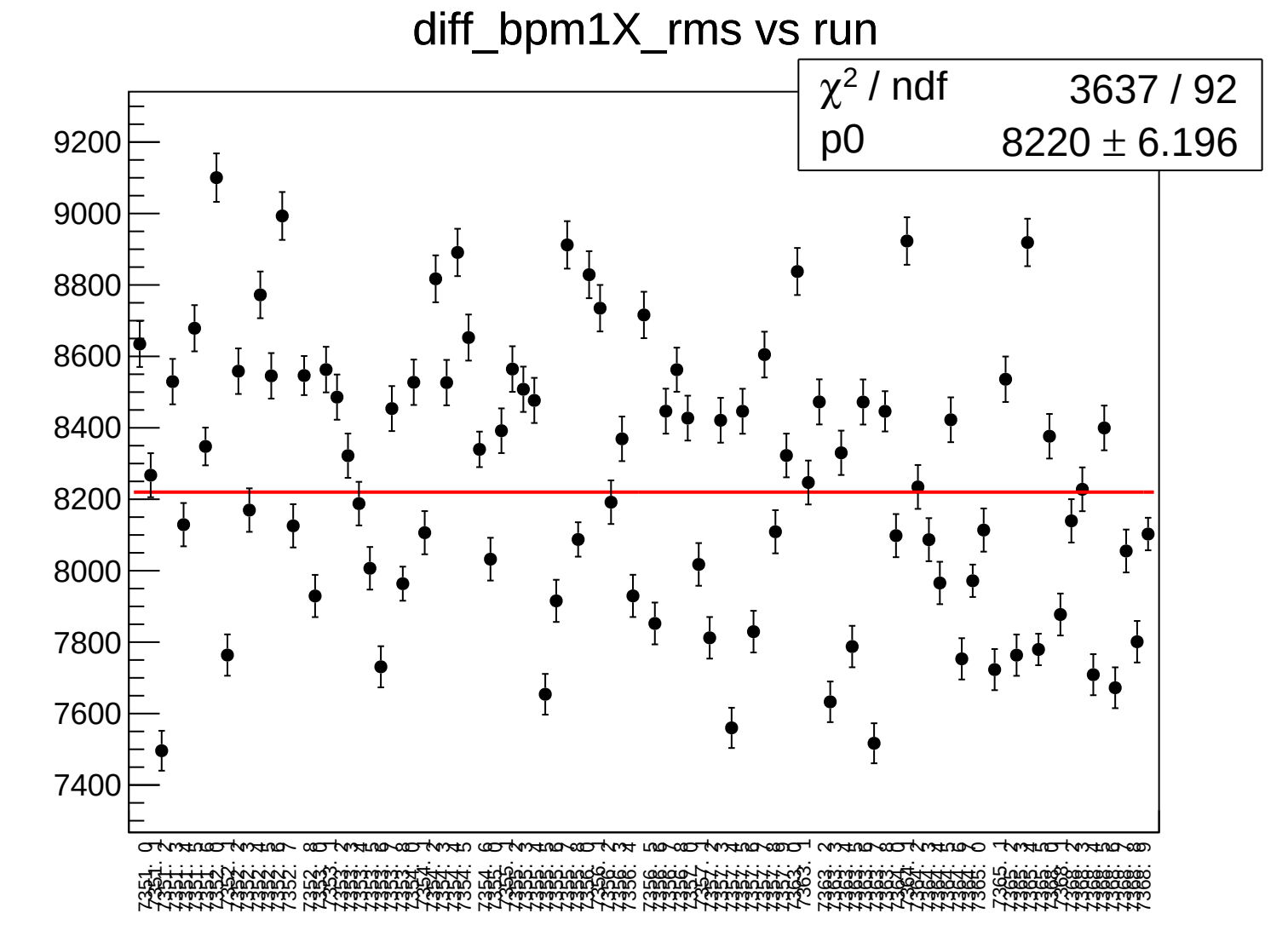

diff_bpm4ecY_mean vs run
χ² / ndf 142.3 / 92
p0 0.5898 ± 7.698
300
200
100
0
−100
−200
−300
pull
Entries 93
Mean −964.4
Std Dev 1017
4
3
2
1
0
−1
−2
−3

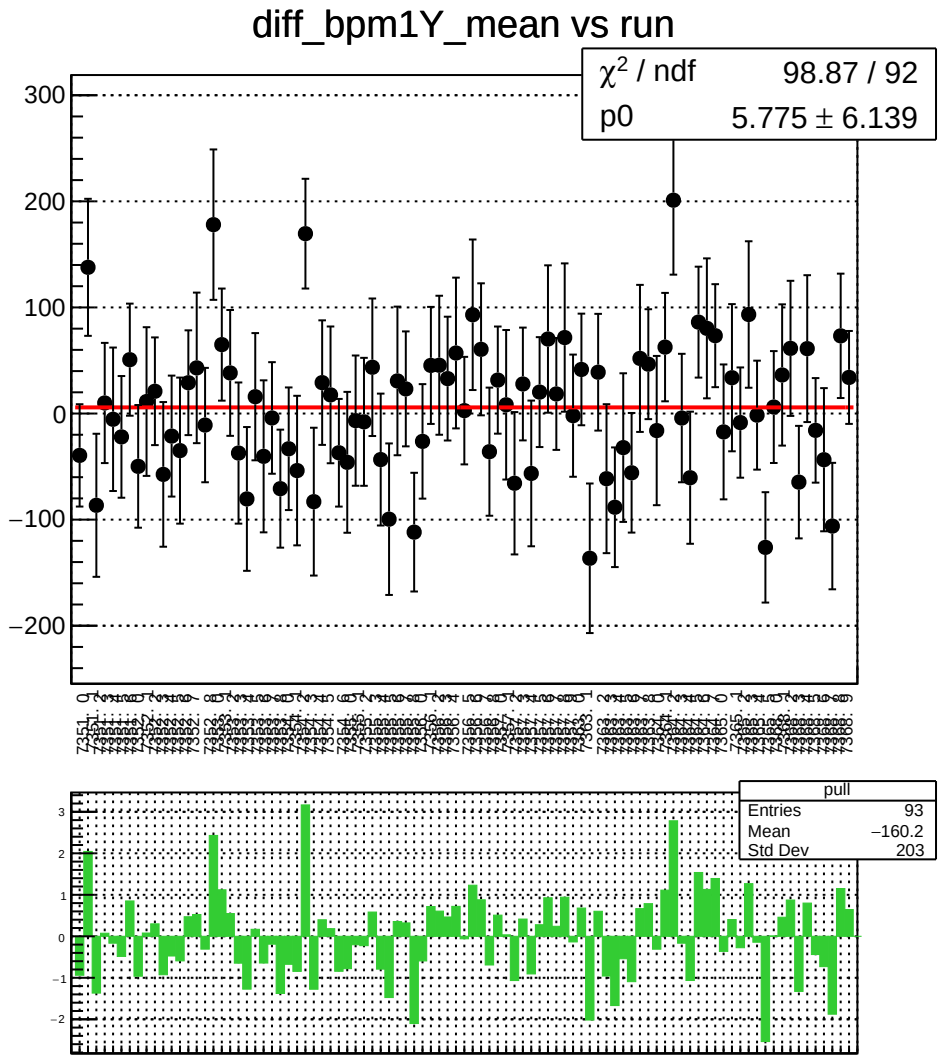

pull1D
Entries 93
Mean −0.004692
Std Dev 1.237
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

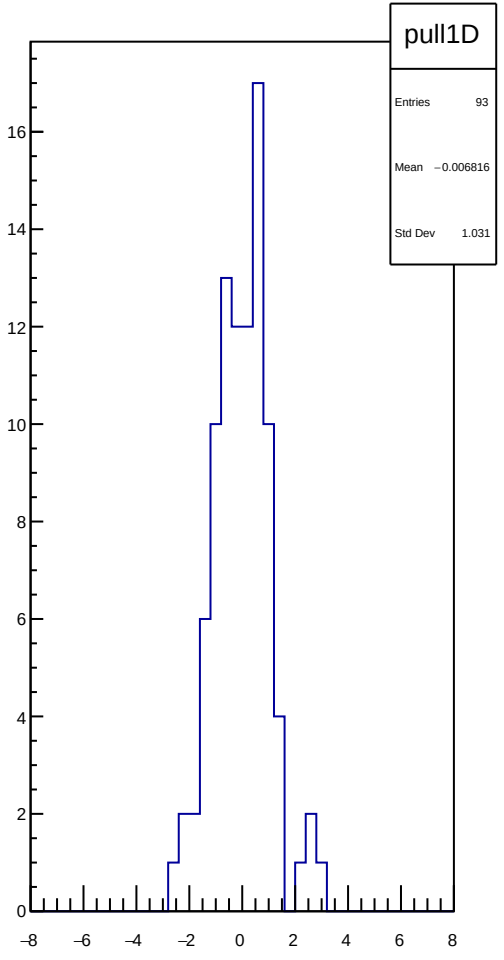

diff_bpm4ecY_rms vs run
χ² / ndf 7730 / 92
p0 7213 ± 5.443
8500
8000
7500
7000
6500

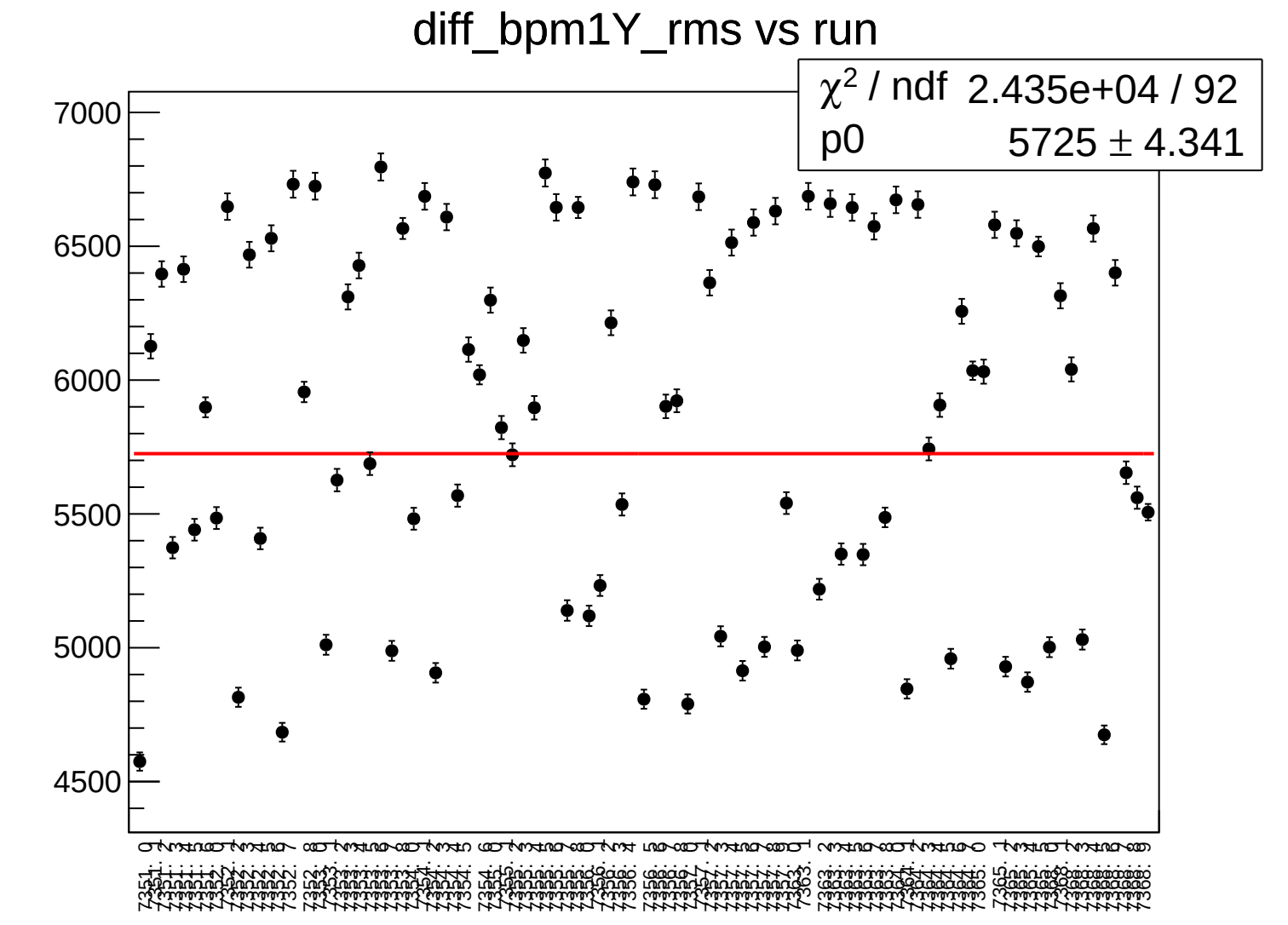

diff_bpm1X_mean vs run
χ² / ndf 252.1 / 92
p0 11.98 ± 8.763
pull
Entries 93
Mean −30.52
Std Dev 75.49

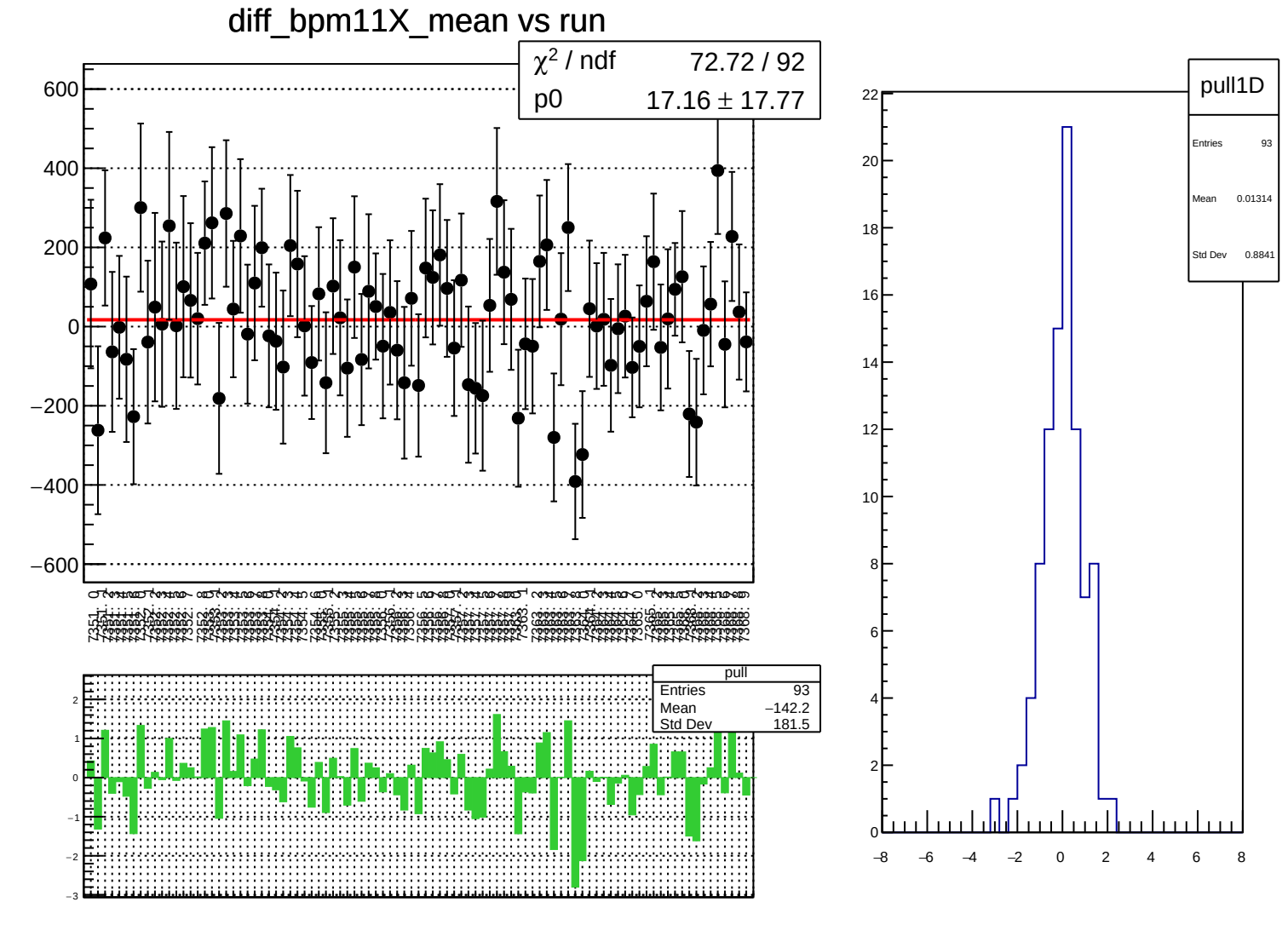

pull1D
Entries 93
Mean 0.01796
Std Dev 1.646

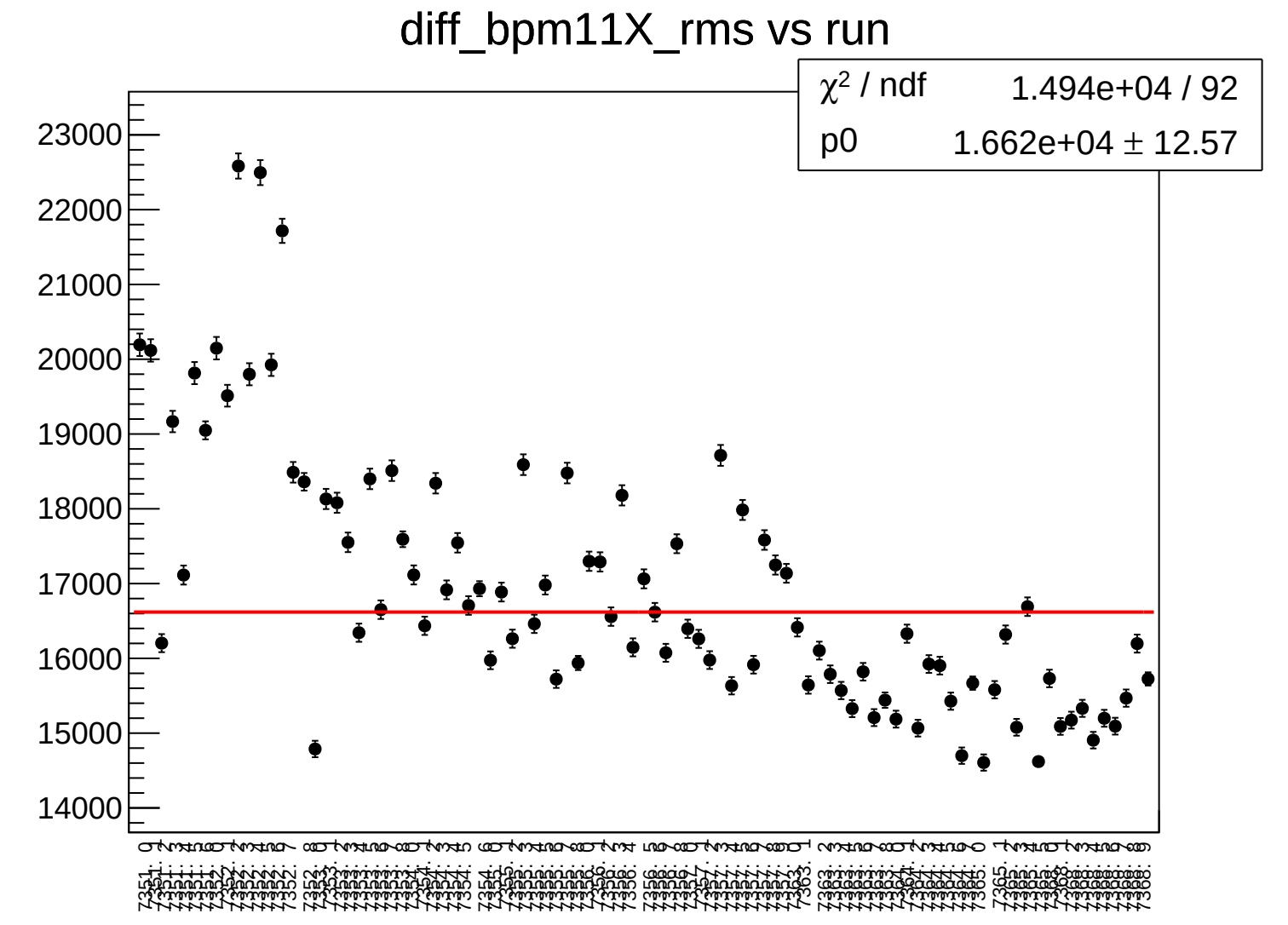

diff_bpm1X_rms vs run
χ^2 / ndf 3637 / 92
p0 8220 ± 6.196
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400

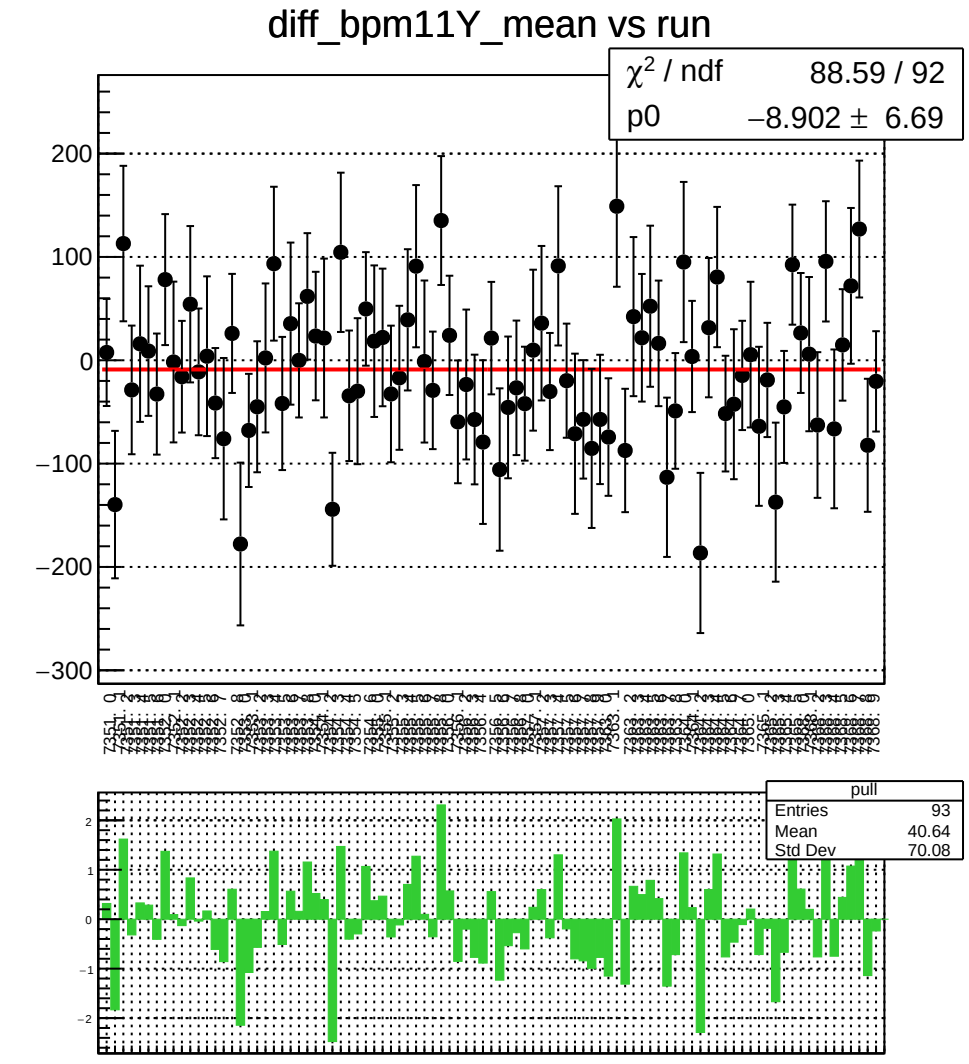

diff_bpm1Y_mean vs run
χ² / ndf 98.87 / 92
p0 5.775 ± 6.139
300
200
100
0
−100
−200
pull
Entries 93
Mean −160.2
Std Dev 203
3
2
1
0
−1
−2

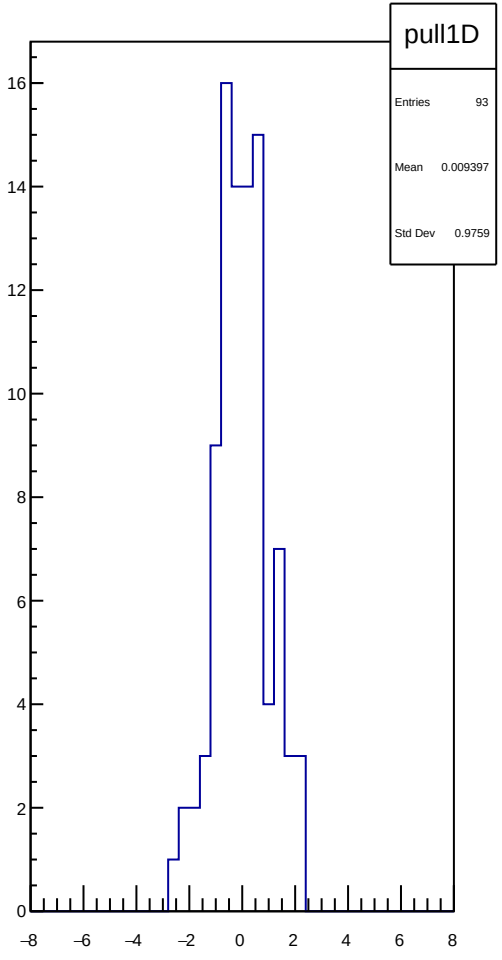

pull1D
Entries 93
Mean −0.006816
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

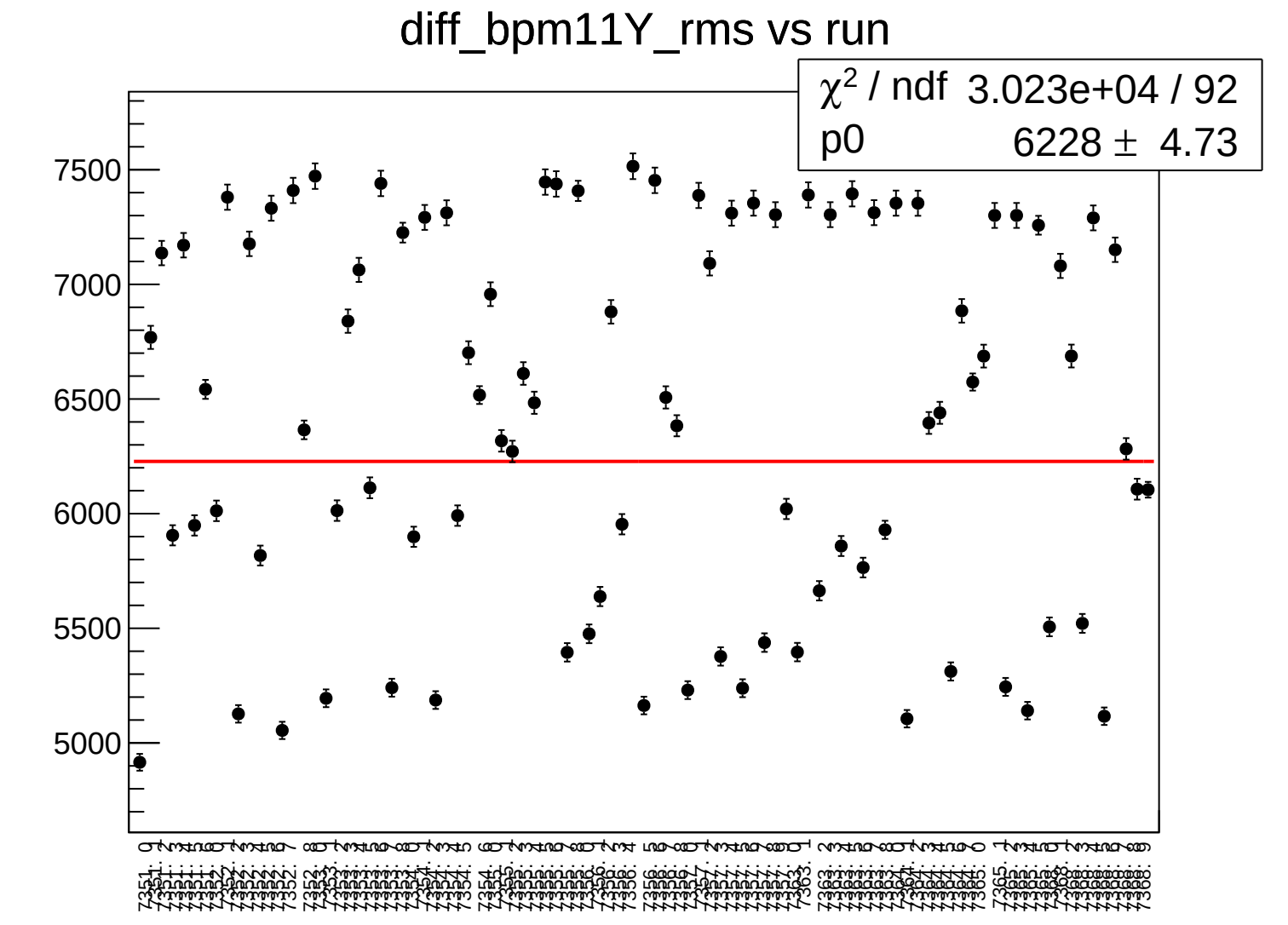

diff_bpm1Y_rms vs run
χ^2 / ndf 2.435e+04 / 92
p0 5725 ± 4.341
7000
6500
6000
5500
5000
4500

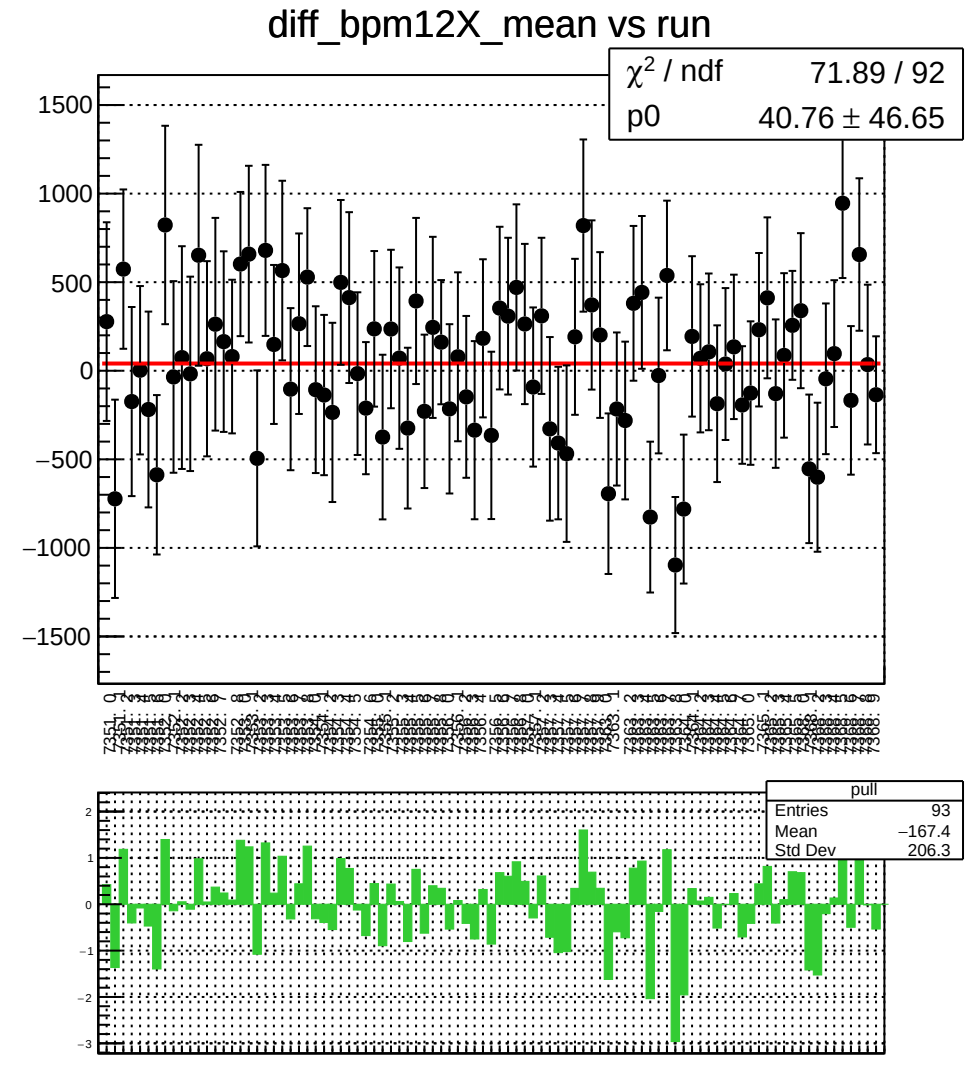

diff_bpm11X_mean vs run
χ^2 / ndf 72.72 / 92
p0 17.16 ± 17.77
pull
Entries 93
Mean −142.2
Std Dev 181.5
pull1D
Entries 93
Mean 0.01314
Std Dev 0.8841

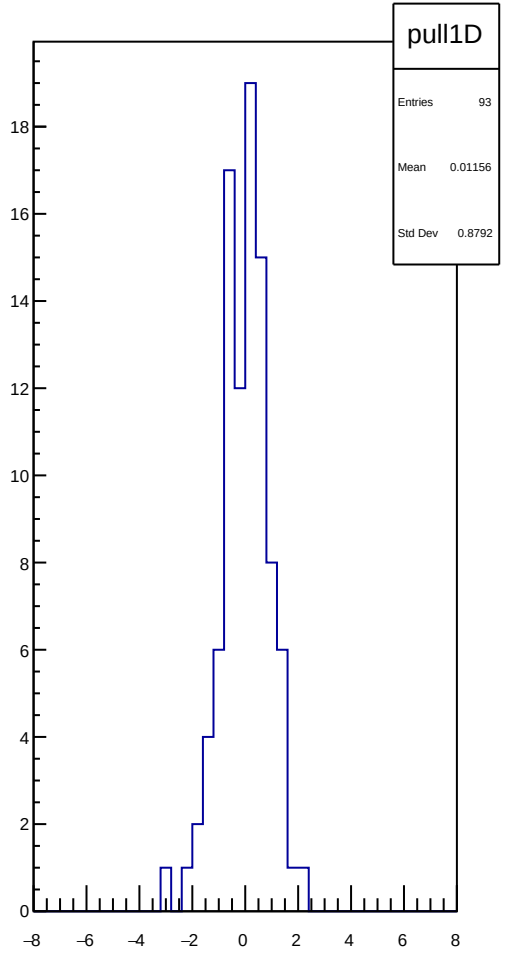

diff_bpm11X_rms vs run
χ² / ndf 1.494e+04 / 92
p0 1.662e+04 ± 12.57
23000
22000
21000
20000
19000
18000
17000
16000
15000
14000

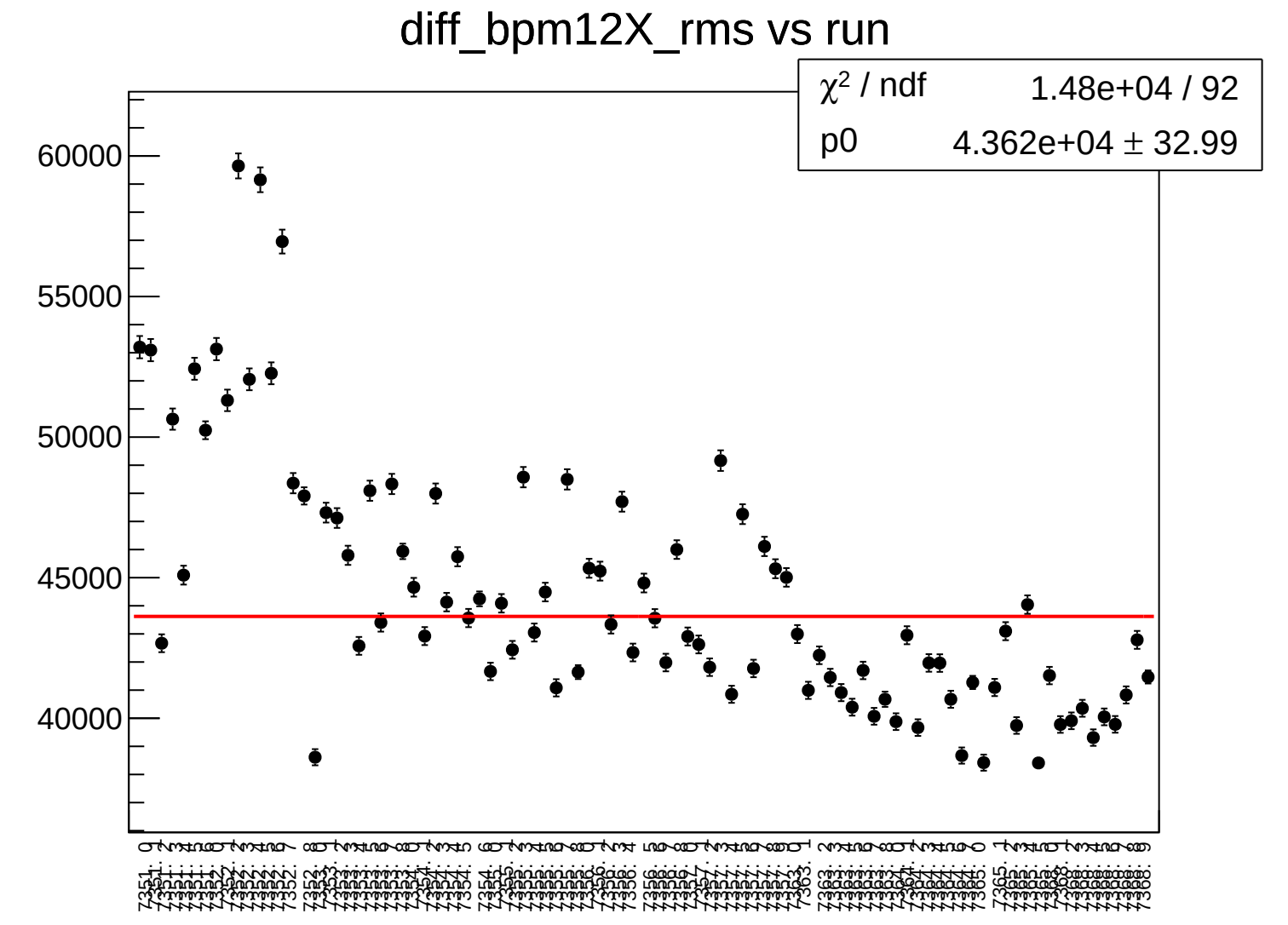

diff_bpm11Y_mean vs run
χ² / ndf 88.59 / 92
p0 −8.902 ± 6.69
200
100
0
−100
−200
−300
pull
Entries 93
Mean 40.64
Std Dev 70.08
2
1
0
−1
−2

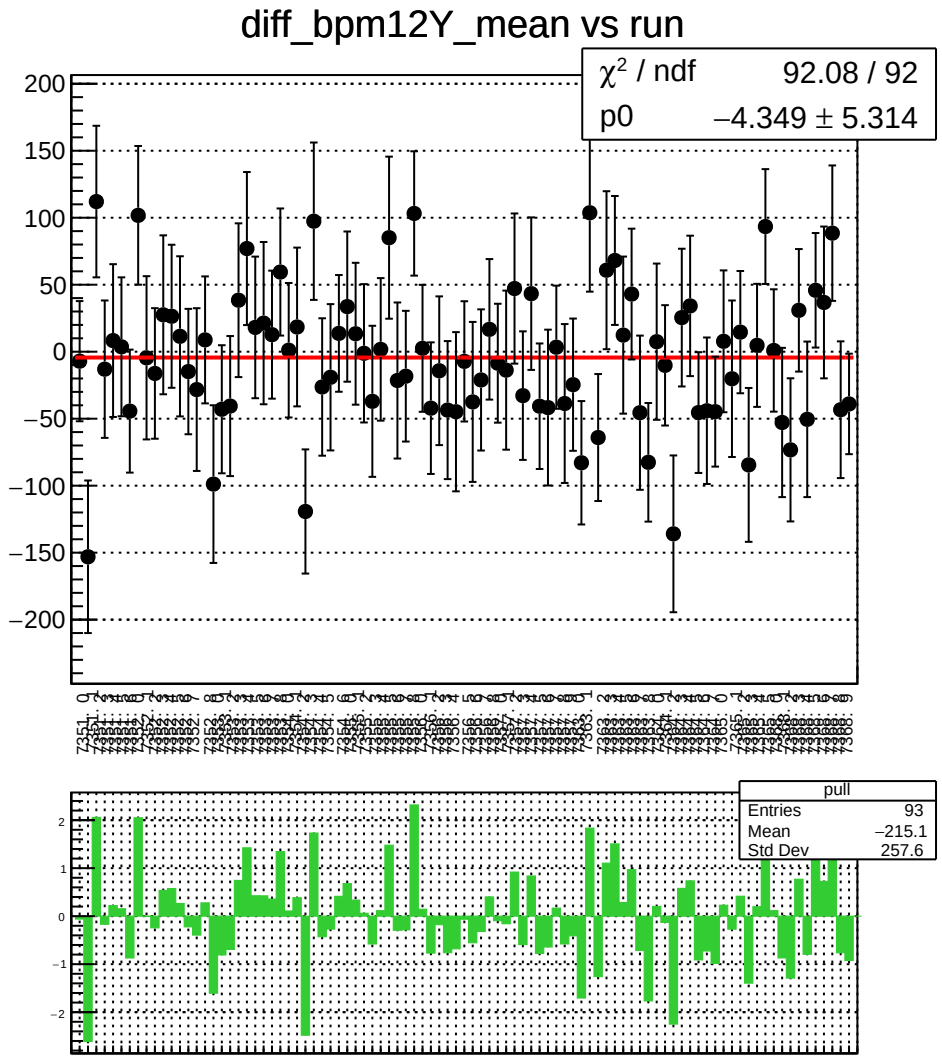

pull1D
Entries 93
Mean 0.009397
Std Dev 0.9759
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

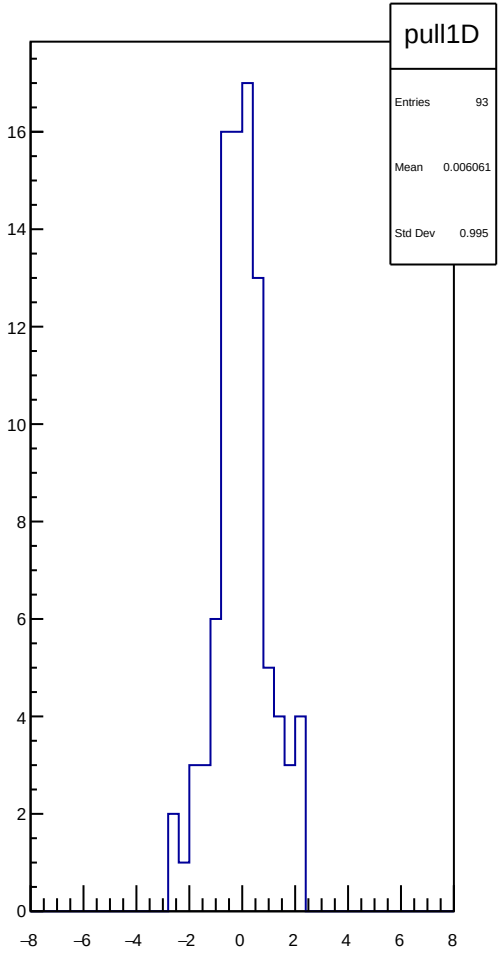

diff_bpm11Y_rms vs run
χ^2 / ndf 3.023e+04 / 92
p0 6228 ± 4.73
7500
7000
6500
6000
5500
5000

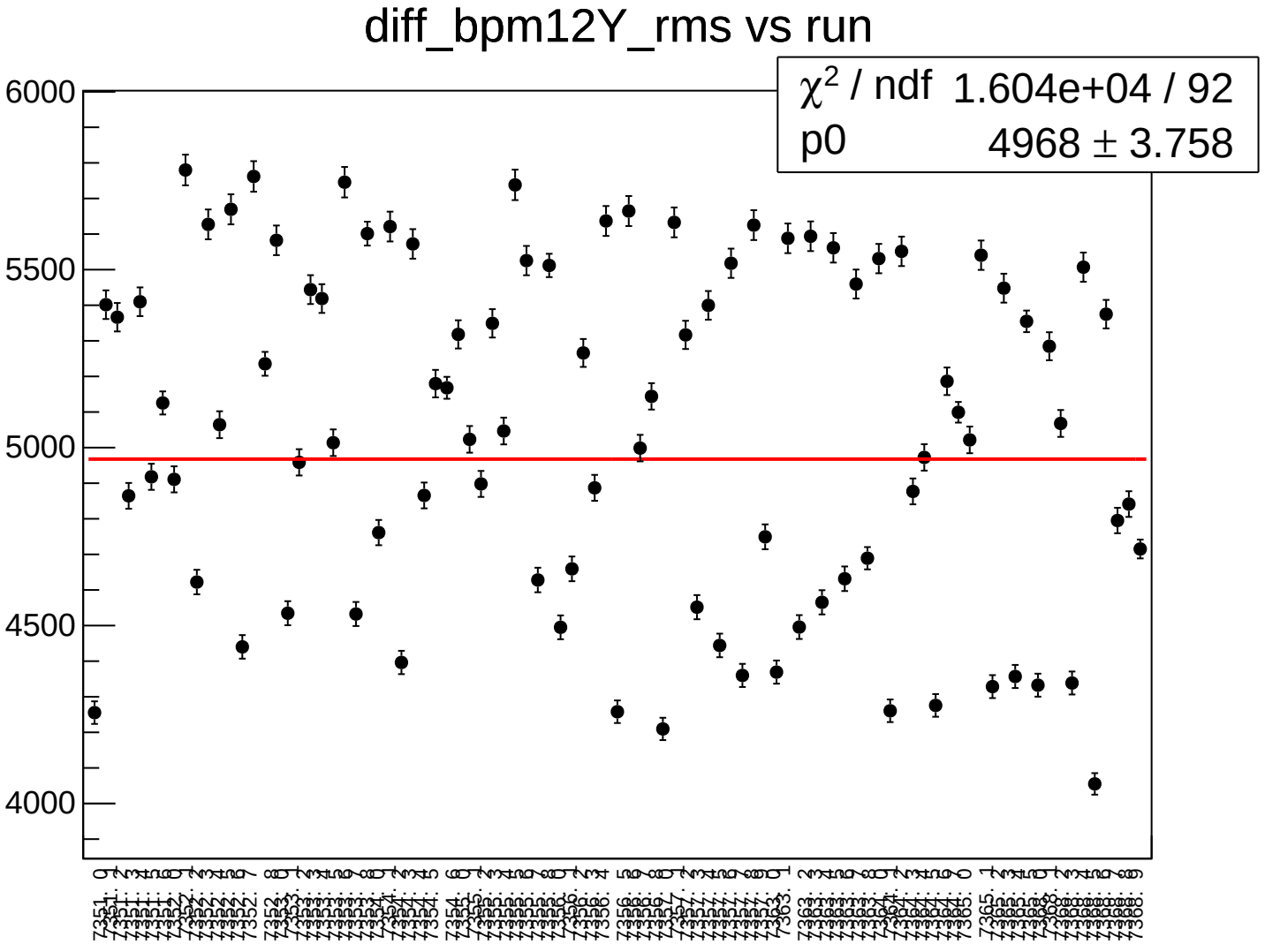

diff_bpm12X_mean vs run
χ² / ndf 71.89 / 92
p0 40.76 ± 46.65
1500
1000
500
0
−500
−1000
−1500
pull
Entries 93
Mean −167.4
Std Dev 206.3
2
1
0
−1
−2
−3

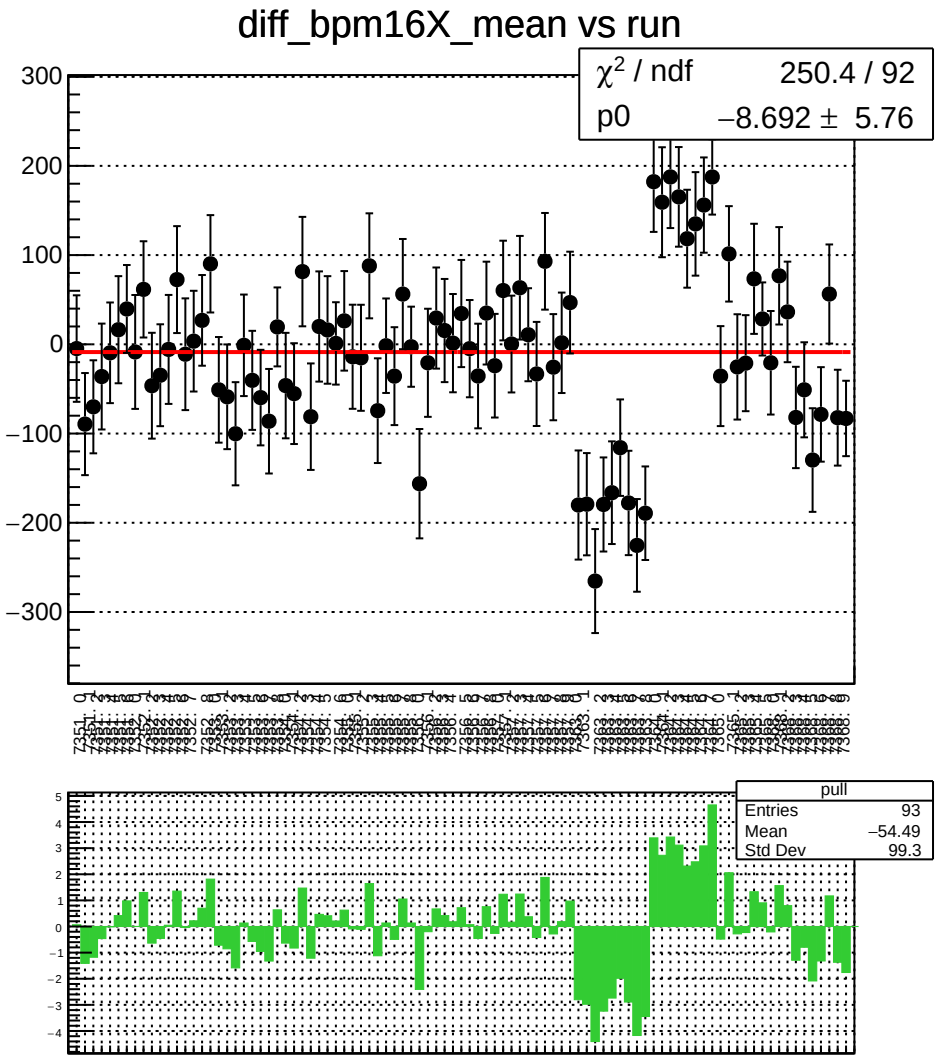

pull1D
Entries 93
Mean 0.01156
Std Dev 0.8792
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

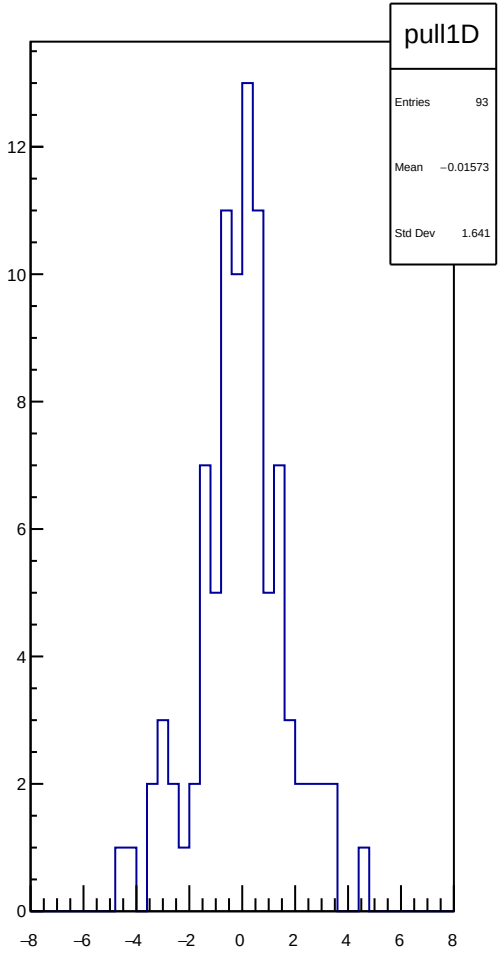

diff_bpm12X_rms vs run
χ² / ndf 1.48e+04 / 92
p0 4.362e+04 ± 32.99
60000
55000
50000
45000
40000

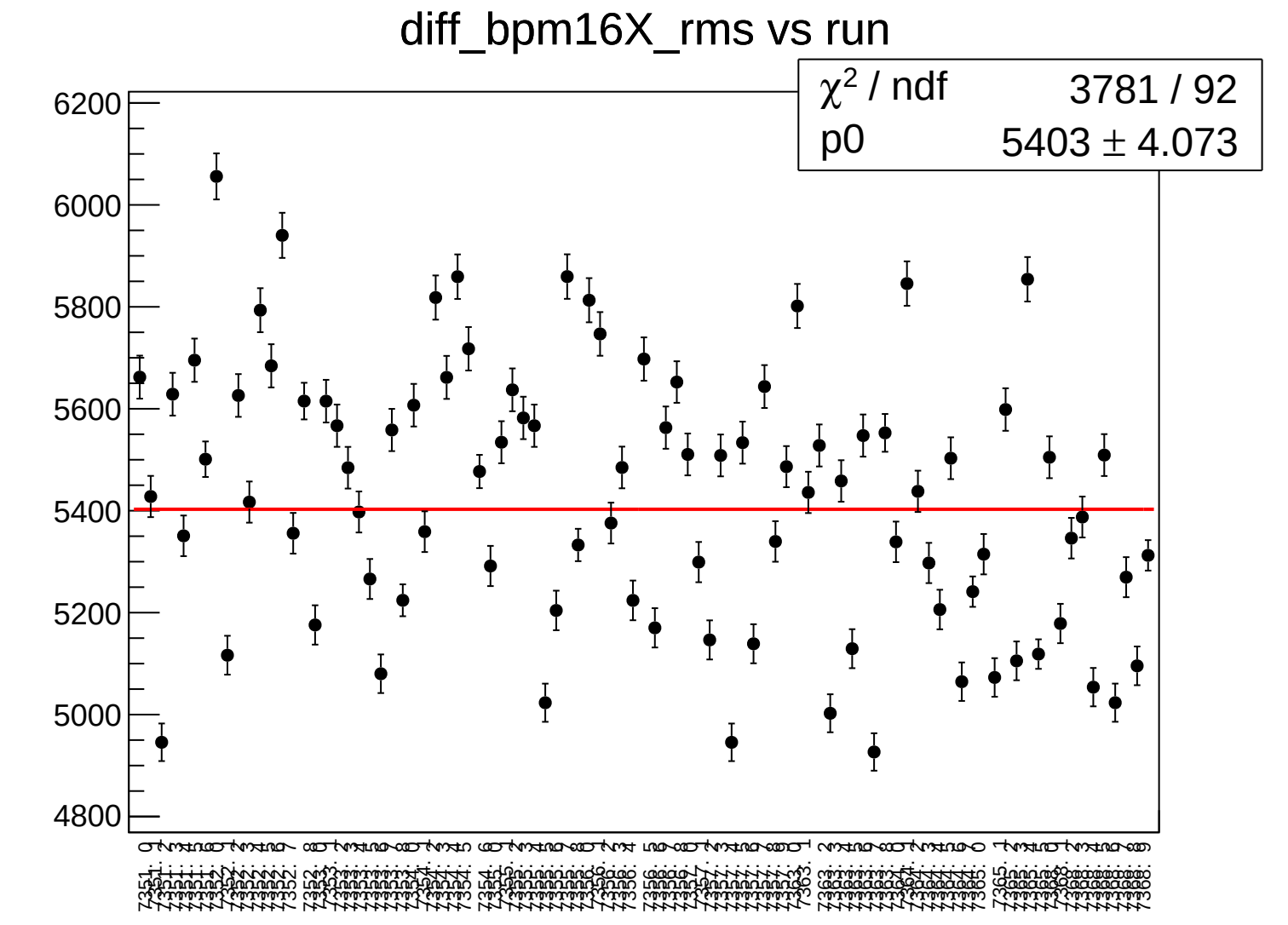

diff_bpm12Y_mean vs run
χ² / ndf 92.08 / 92
p0 −4.349 ± 5.314
pull
Entries 93
Mean −215.1
Std Dev 257.6

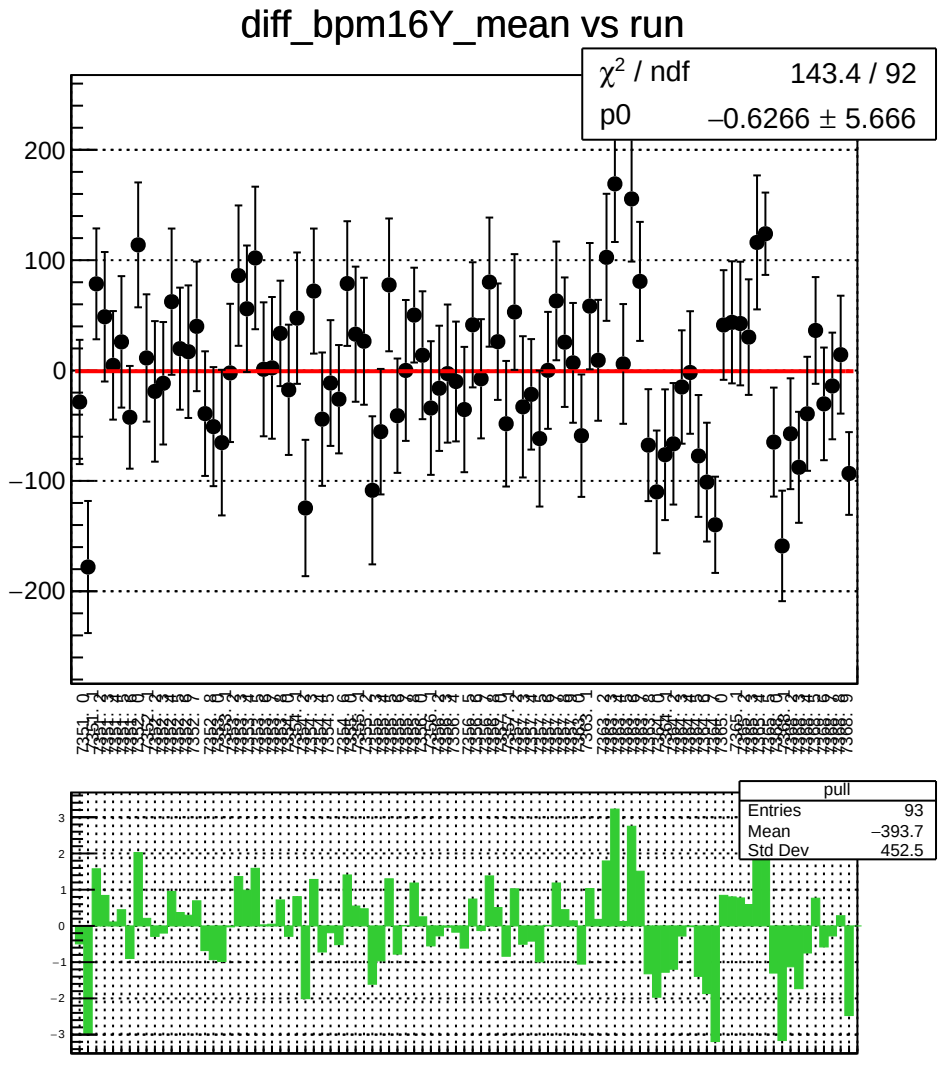

pull1D
Entries 93
Mean 0.006061
Std Dev 0.995

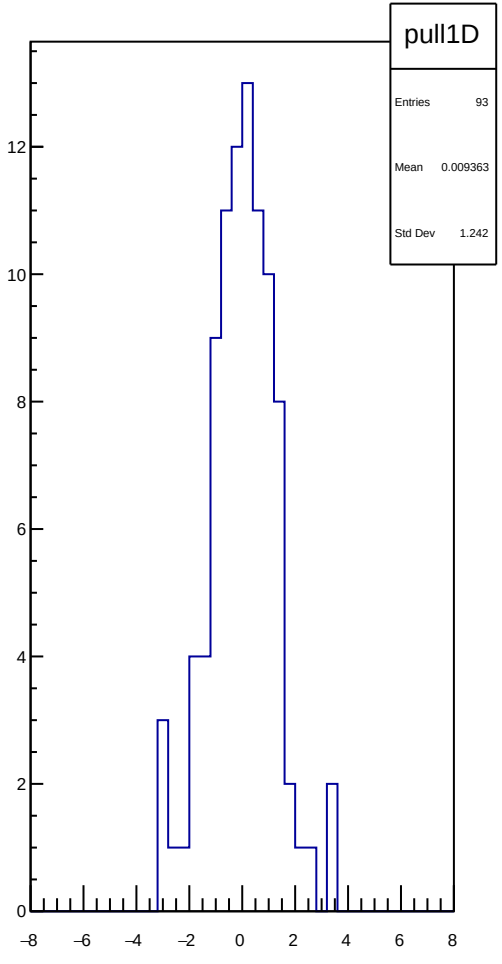

diff_bpm12Y_rms vs run
χ² / ndf 1.604e+04 / 92
p0 4968 ± 3.758
6000
5500
5000
4500
4000

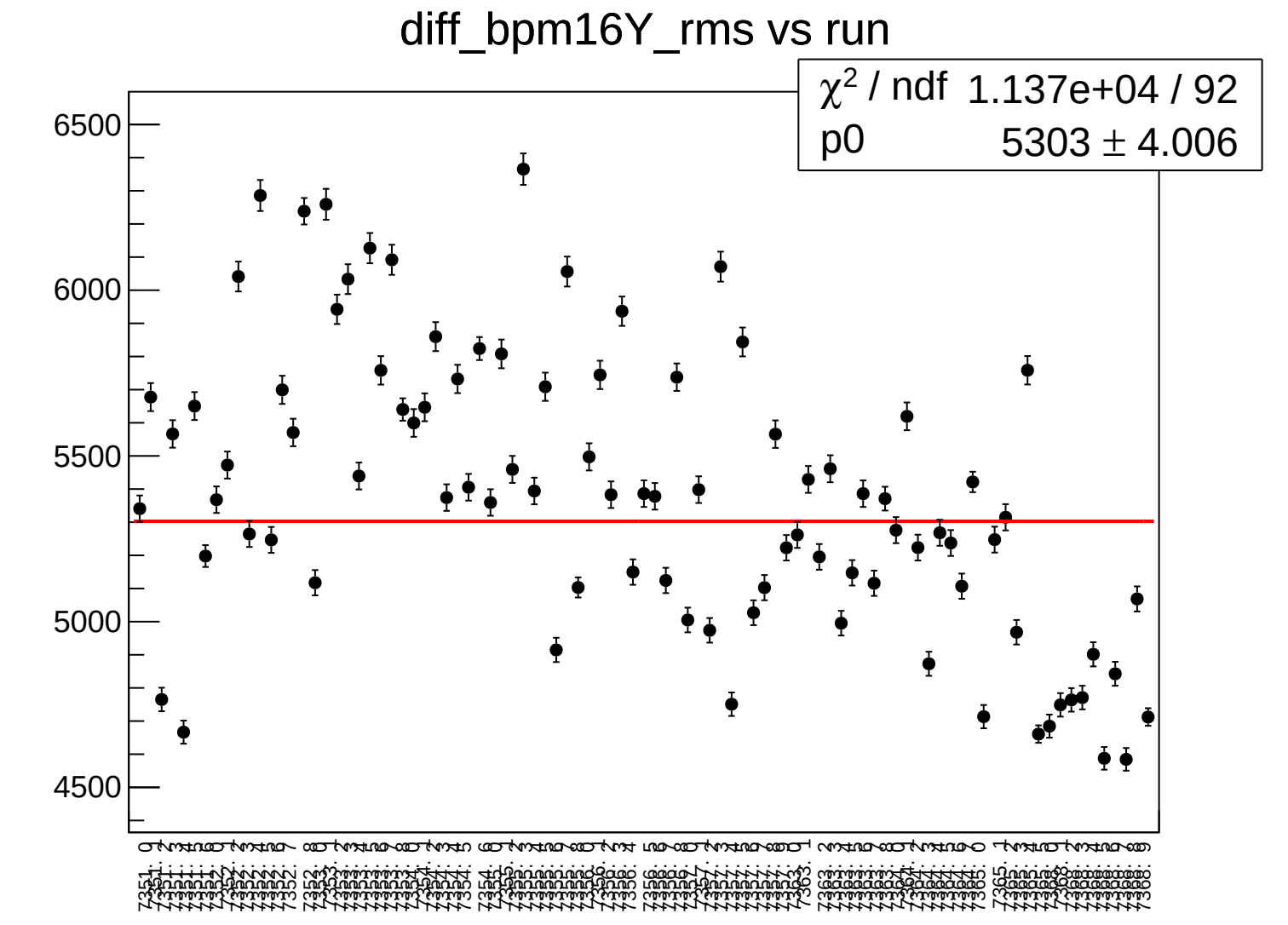

diff_bpm16X_mean vs run
χ² / ndf 250.4 / 92
p0 −8.692 ± 5.76
pull
Entries 93
Mean −54.49
Std Dev 99.3

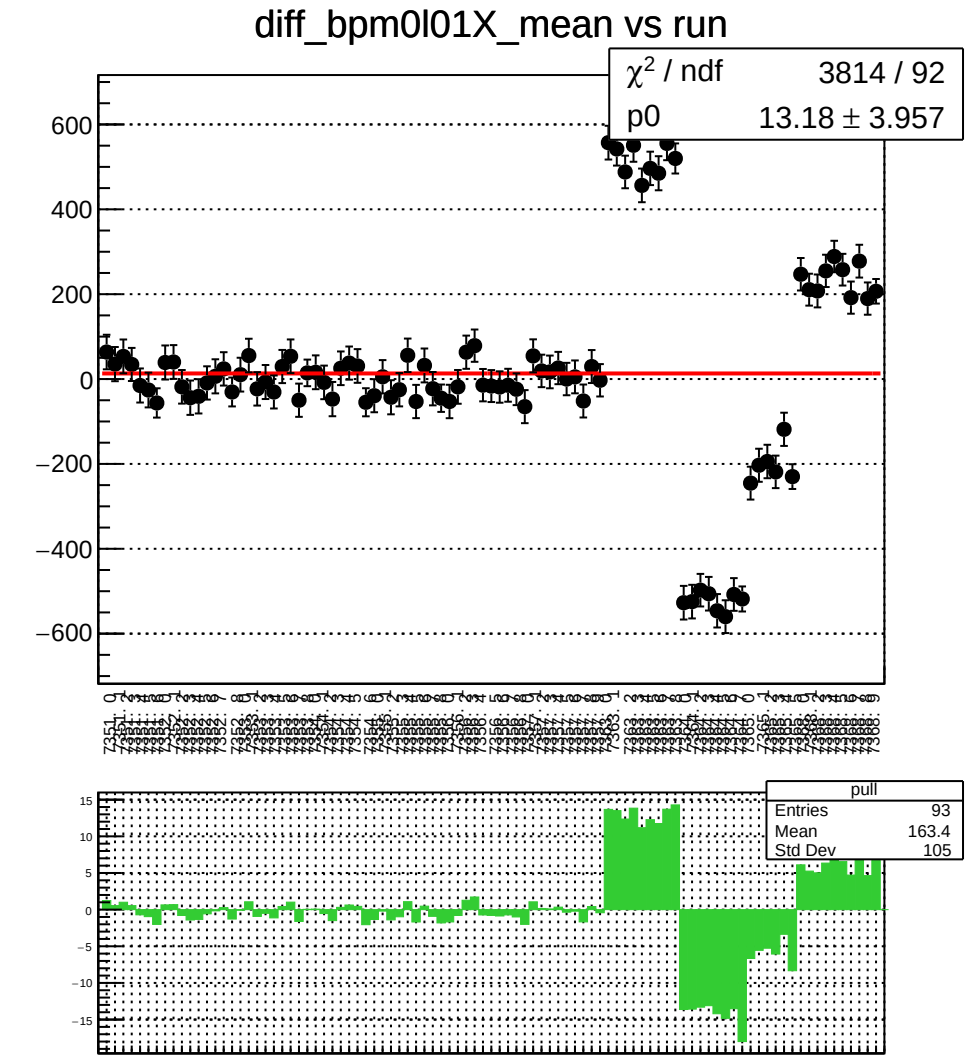

pull1D
Entries 93
Mean −0.01573
Std Dev 1.641

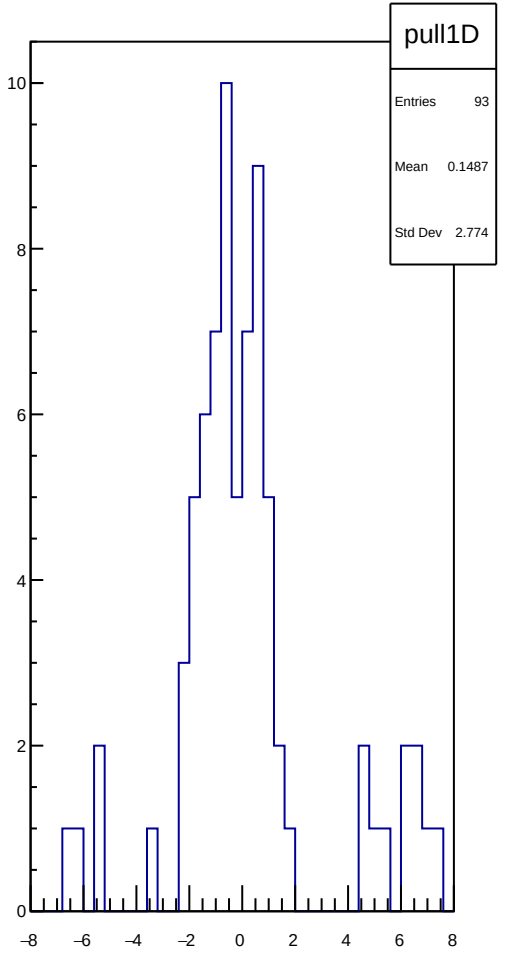

diff_bpm16X_rms vs run
χ² / ndf 3781 / 92
p0 5403 ± 4.073
6200
6000
5800
5600
5400
5200
5000
4800

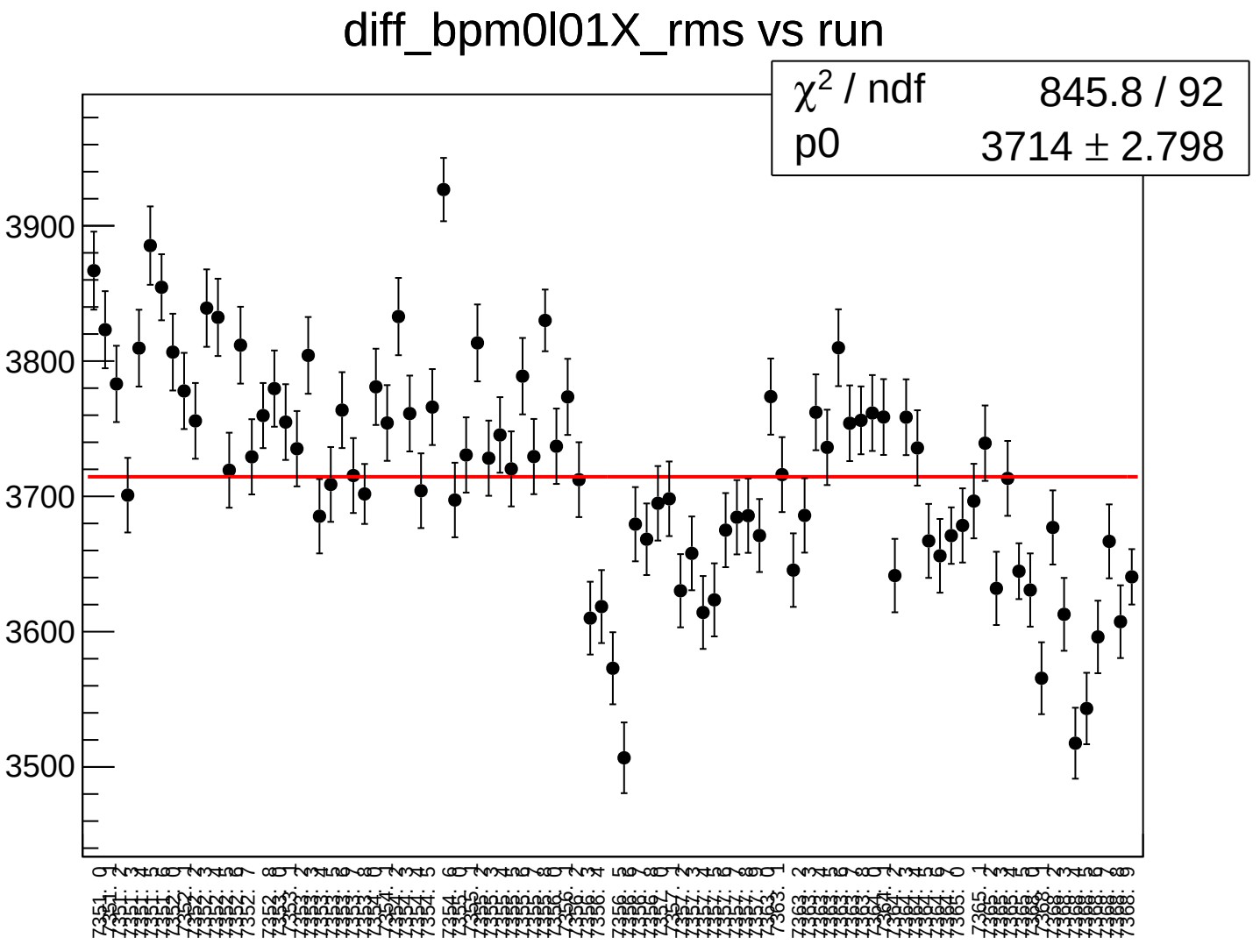

diff_bpm16Y_mean vs run
χ² / ndf 143.4 / 92
p0 −0.6266 ± 5.666
200
100
0
−100
−200
pull
Entries 93
Mean −393.7
Std Dev 452.5
3
2
1
0
−1
−2
−3

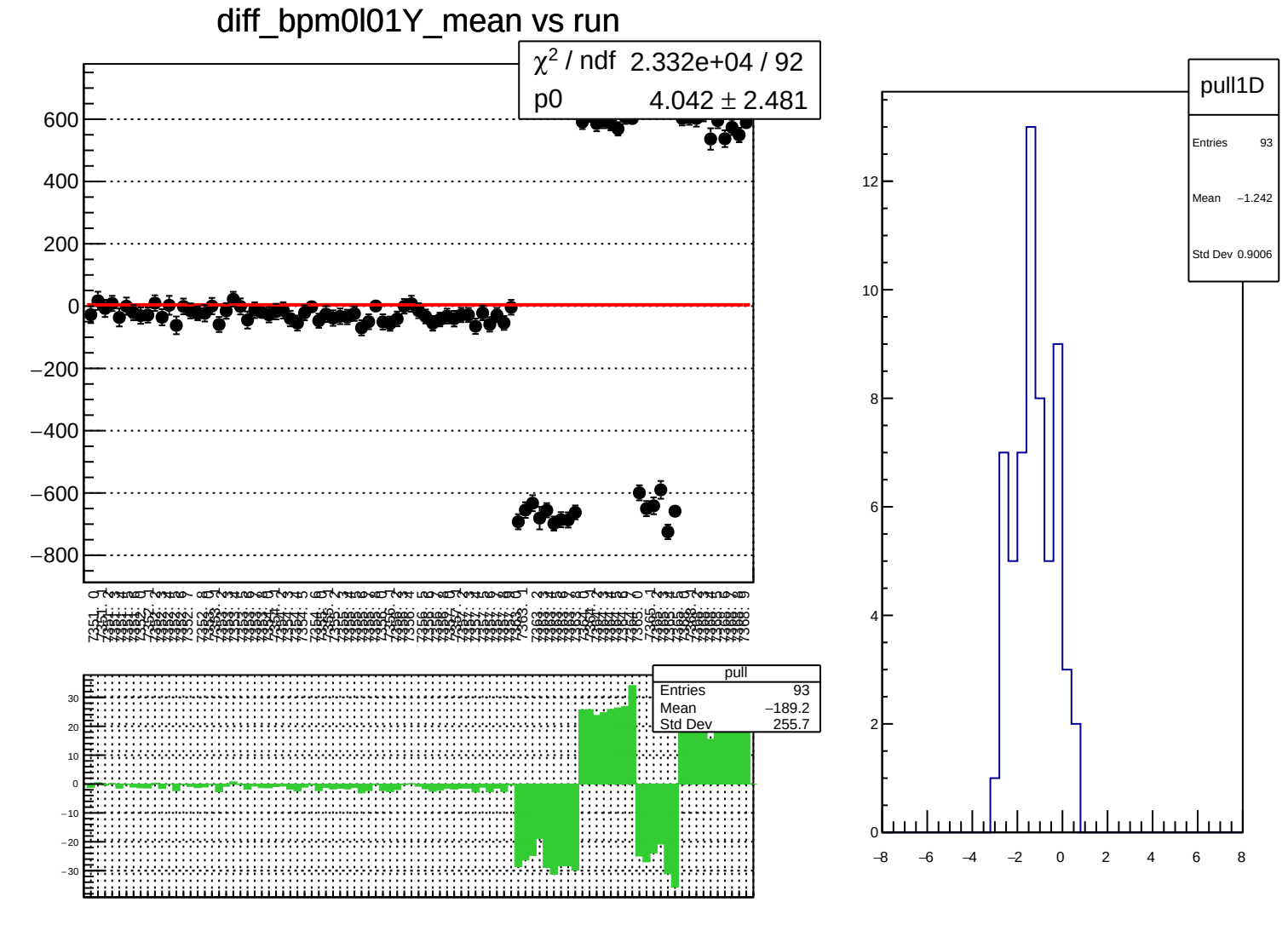

pull1D
Entries 93
Mean 0.009363
Std Dev 1.242
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

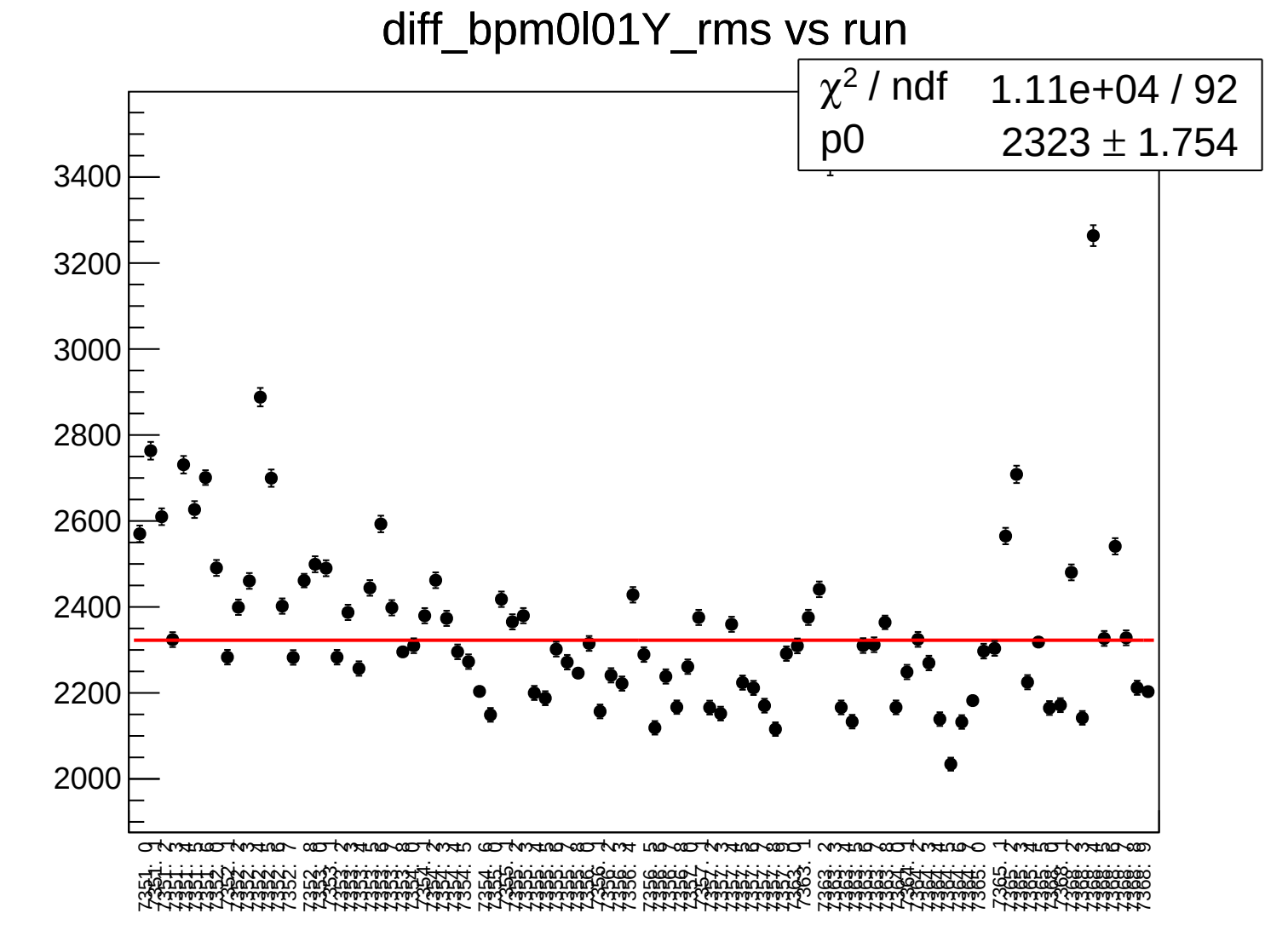

diff_bpm16Y_rms vs run
χ² / ndf 1.137e+04 / 92
p0 5303 ± 4.006
6500
6000
5500
5000
4500

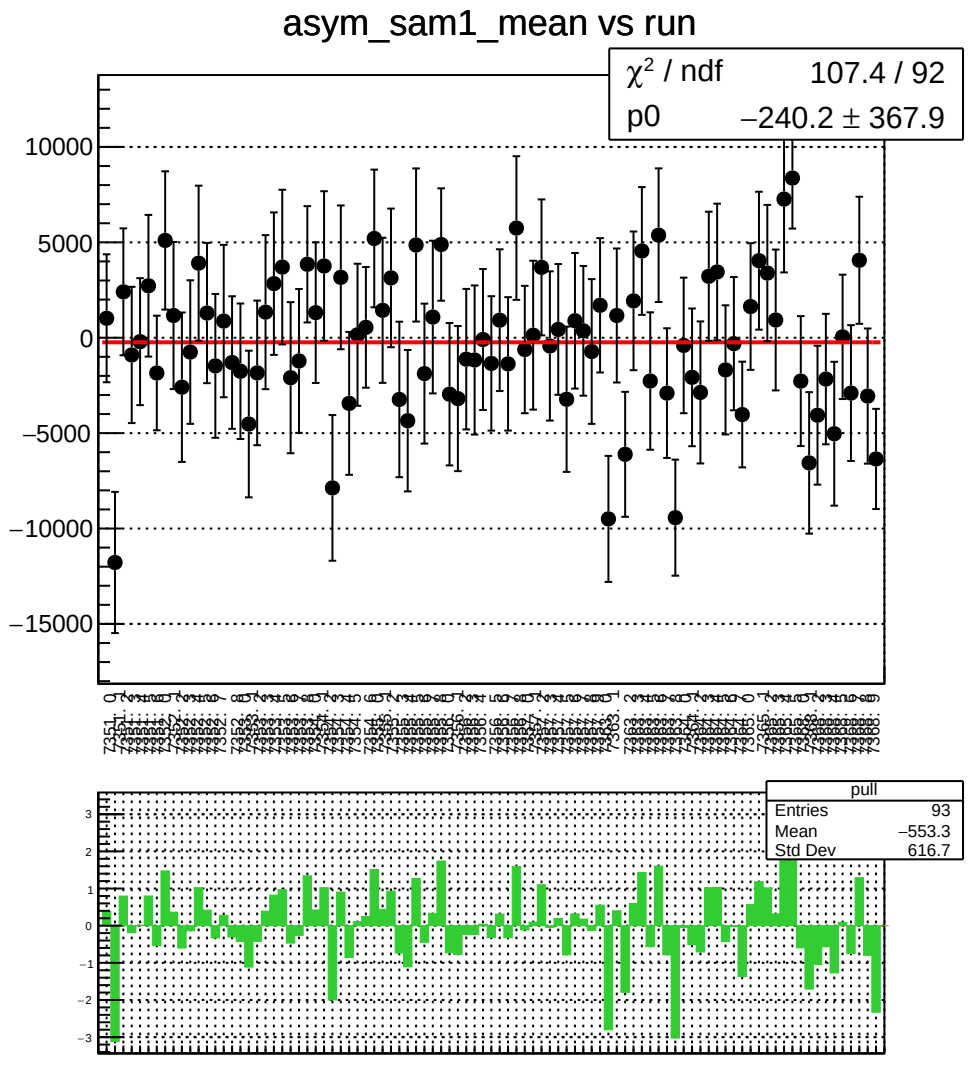

diff_bpm0l01X_mean vs run
χ² / ndf 3814 / 92
p0 13.18 ± 3.957
pull
Entries 93
Mean 163.4
Std Dev 105

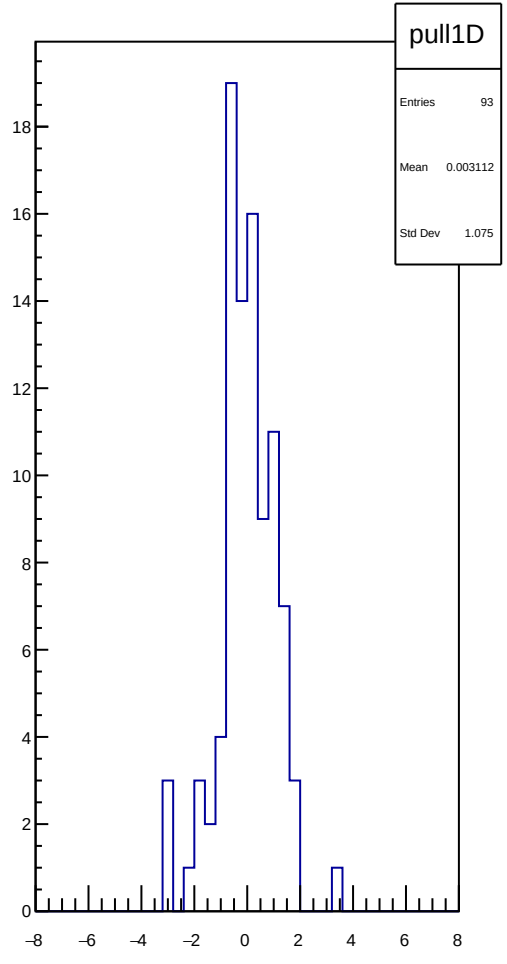

pull1D
Entries 93
Mean 0.1487
Std Dev 2.774

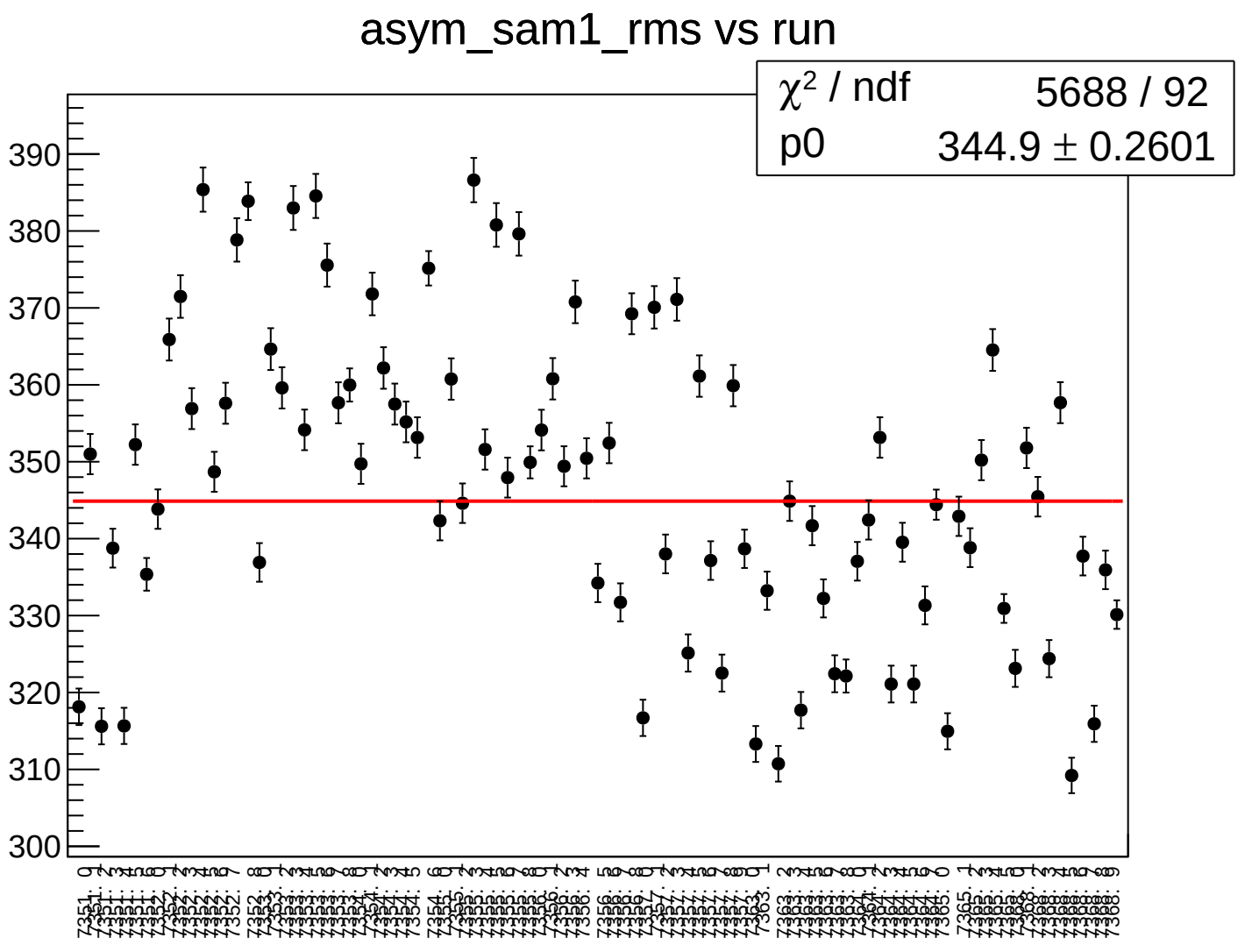

diff_bpm0l01X_rms vs run
χ² / ndf 845.8 / 92
p0 3714 ± 2.798
3900
3800
3700
3600
3500

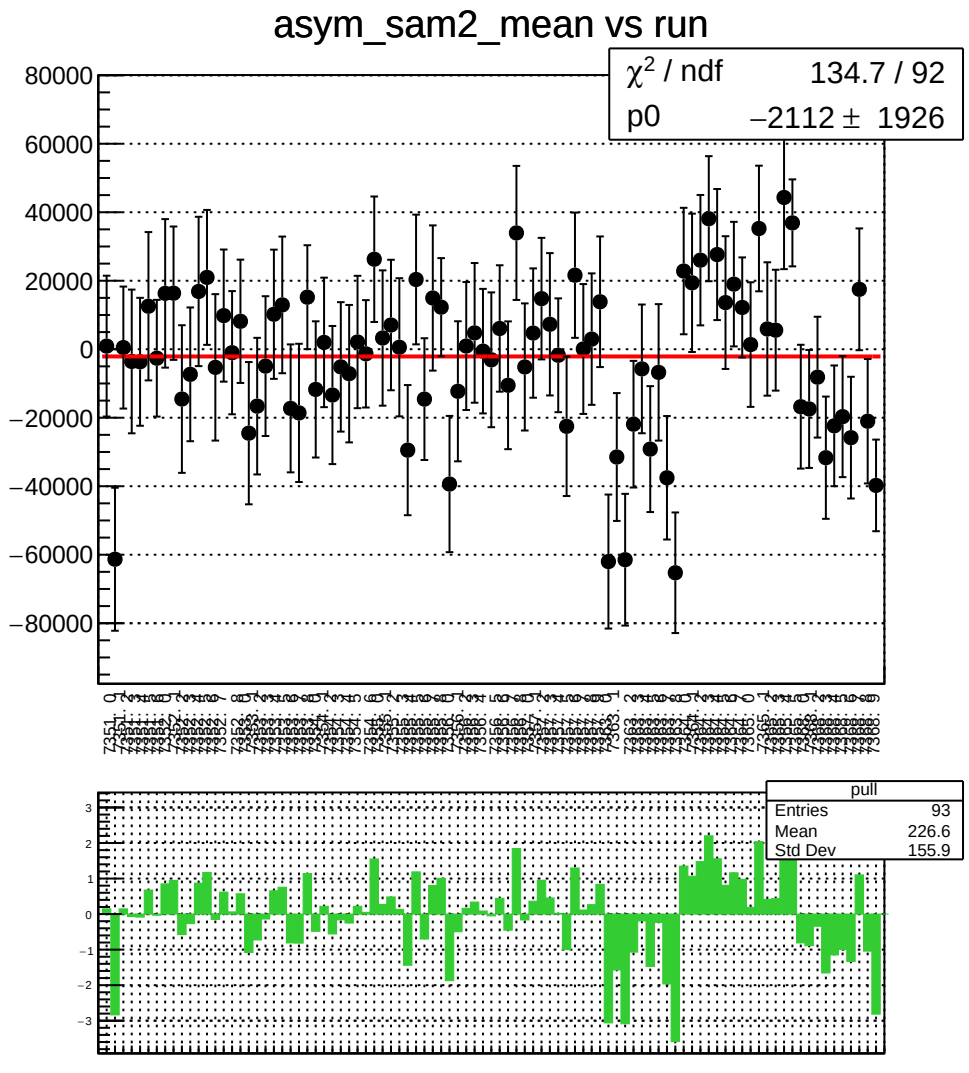

diff_bpm0l01Y_mean vs run
χ² / ndf 2.332e+04 / 92
p0 4.042 ± 2.481
600
400
200
0
−200
−400
−600
−800
pull
Entries 93
Mean −189.2
Std Dev 255.7
30
20
10
0
−10
−20
−30
pull1D
Entries 93
Mean −1.242
Std Dev 0.9006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

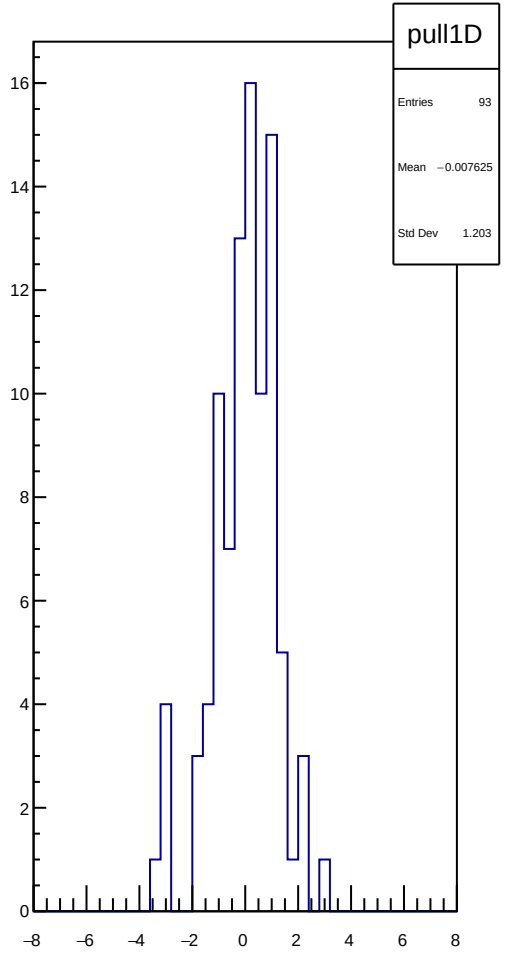

diff_bpm0l01Y_rms vs run
χ² / ndf 1.11e+04 / 92
p0 2323 ± 1.754
3400
3200
3000
2800
2600
2400
2200
2000

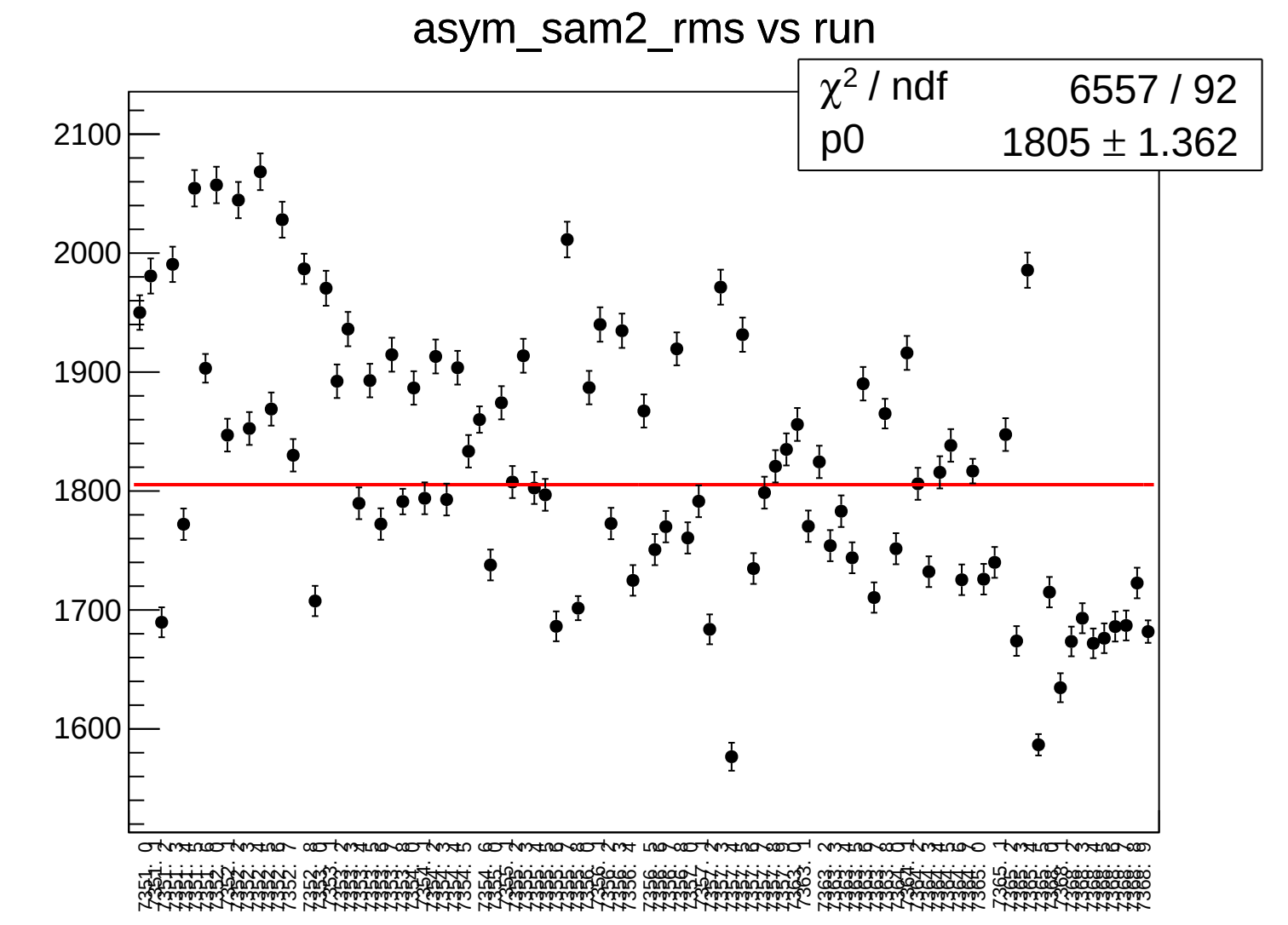

asym_sam1_mean vs run
χ² / ndf 107.4 / 92
p0 −240.2 ± 367.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −553.3
Std Dev 616.7
3
2
1
0
−1
−2
−3

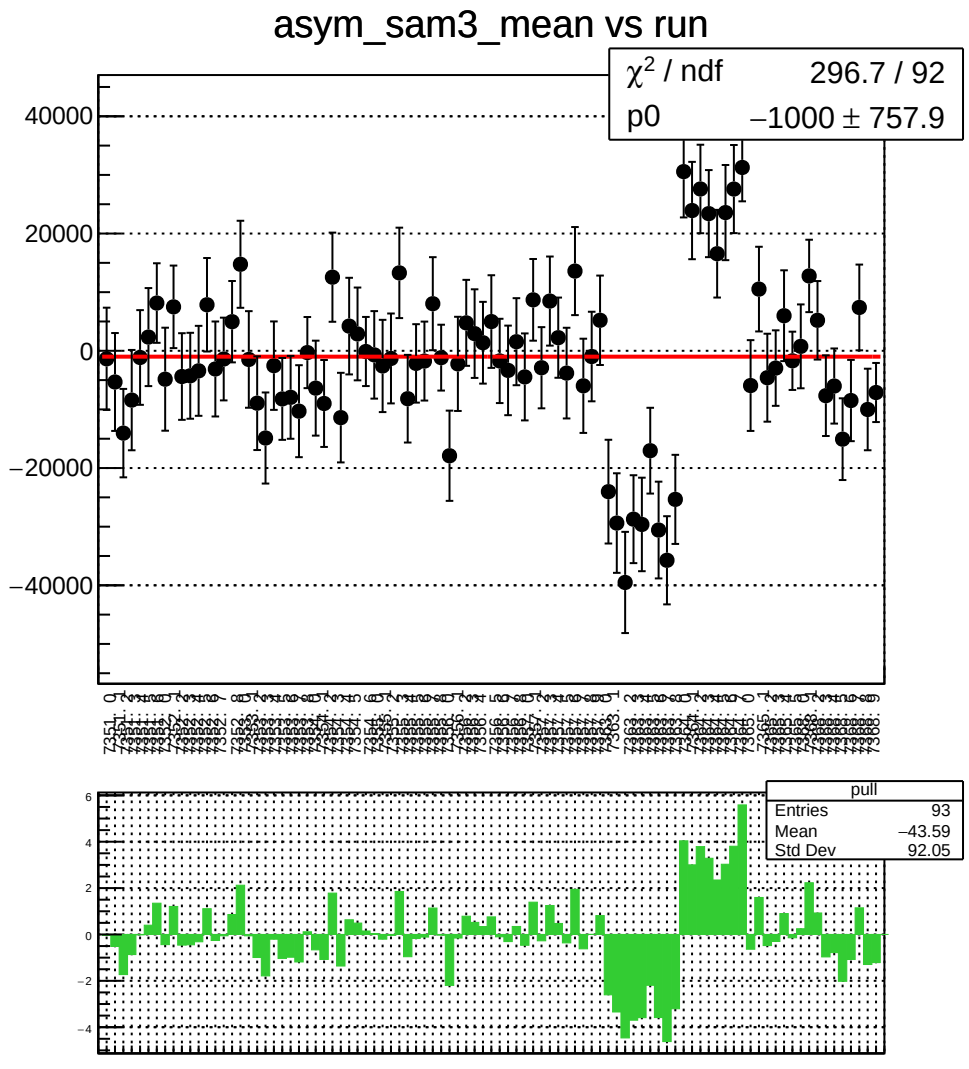

pull1D
Entries 93
Mean 0.003112
Std Dev 1.075
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

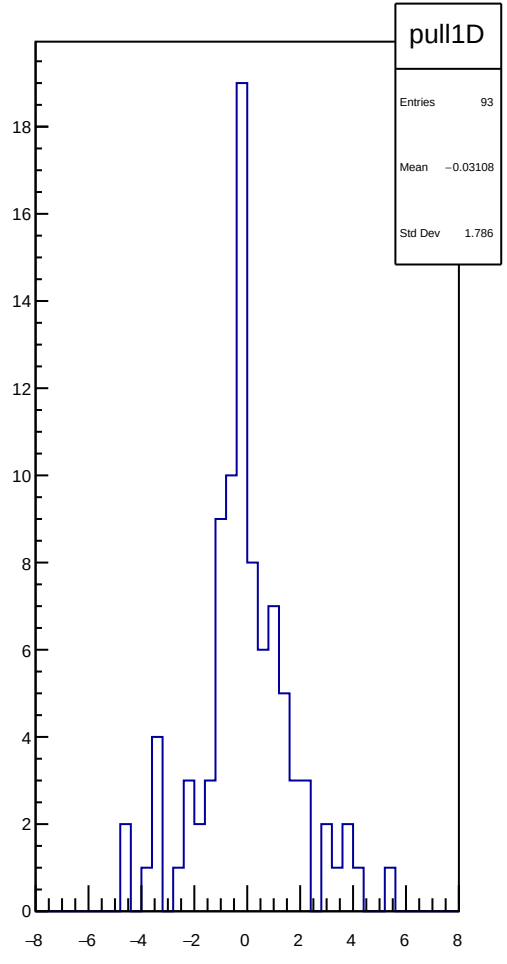

asym_sam1_rms vs run
χ² / ndf 5688 / 92
p0 344.9 ± 0.2601
390
380
370
360
350
340
330
320
310
300

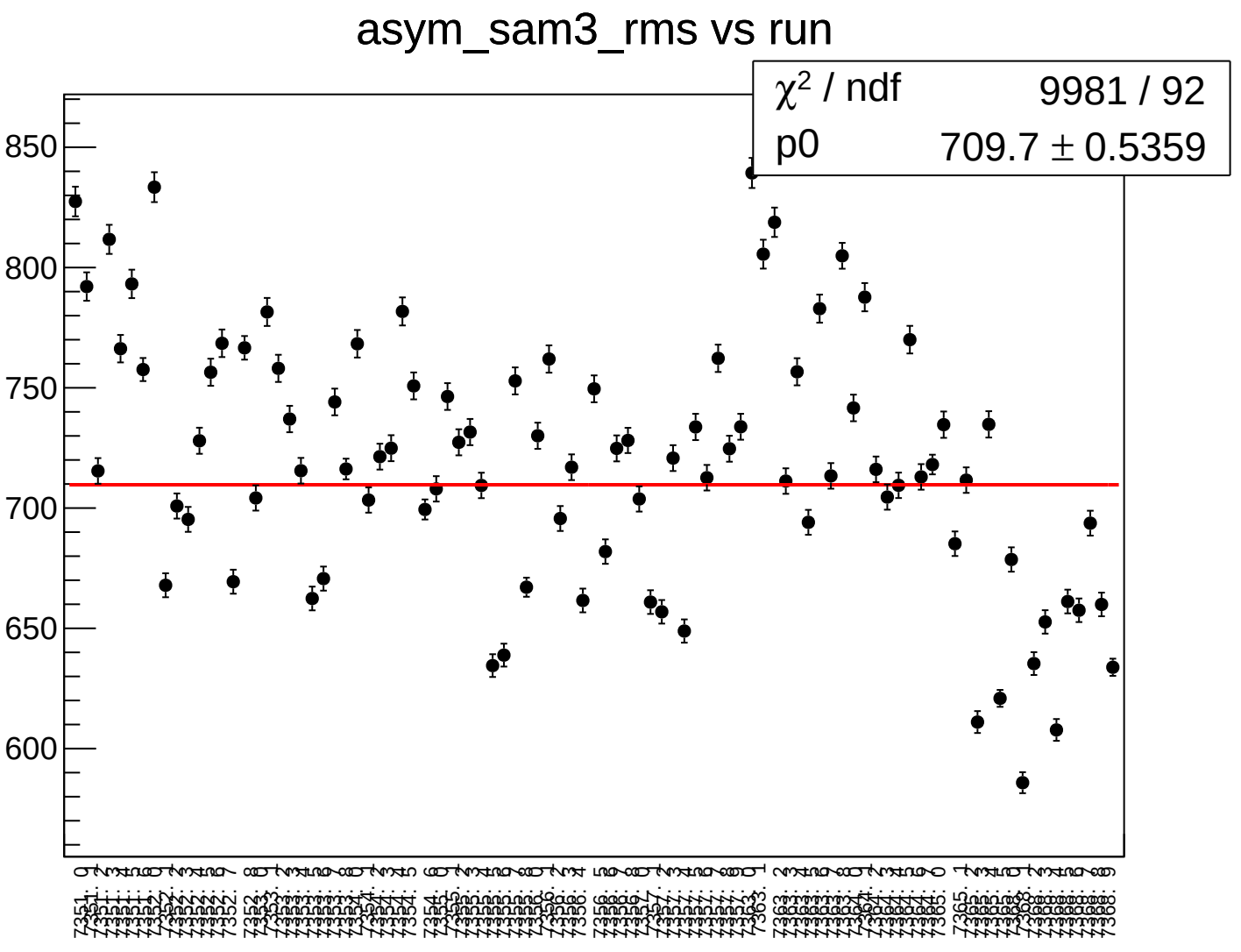

asym_sam2_mean vs run
χ² / ndf 134.7 / 92
p0 −2112 ± 1926
pull
Entries 93
Mean 226.6
Std Dev 155.9

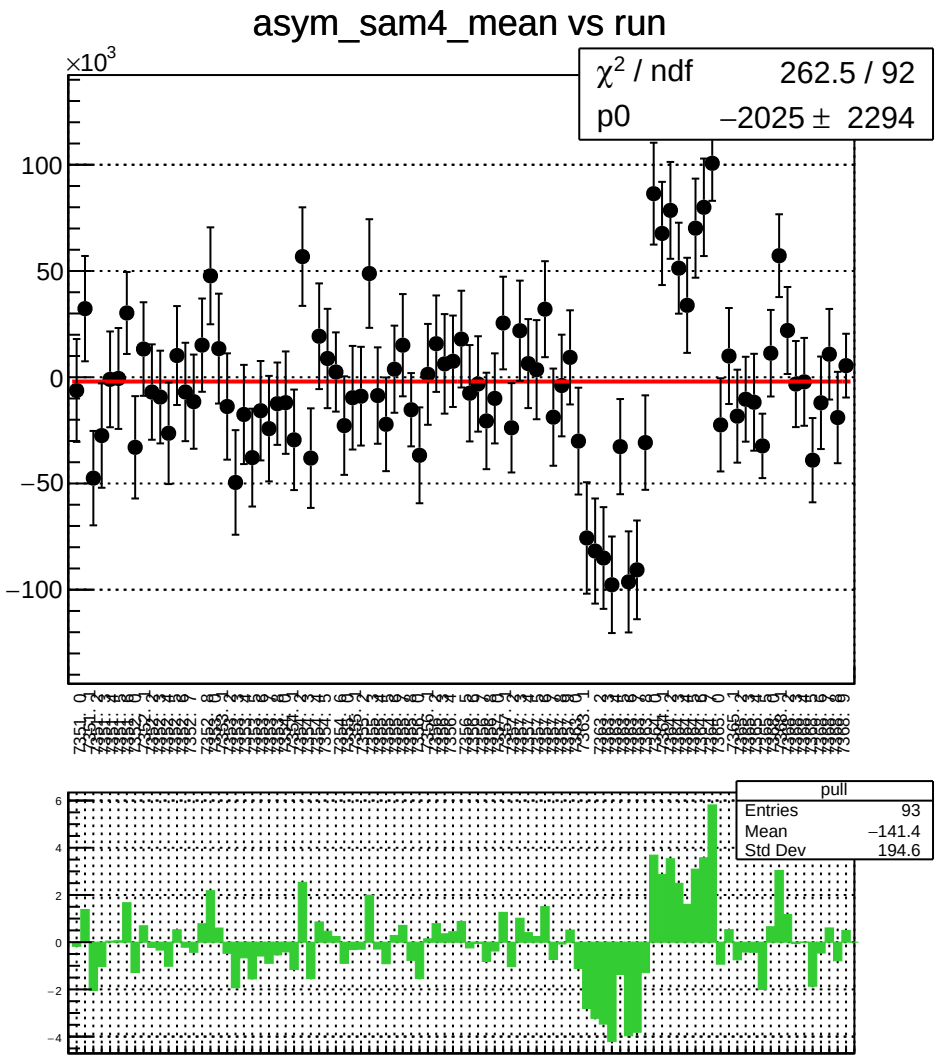

pull1D
Entries 93
Mean −0.007625
Std Dev 1.203

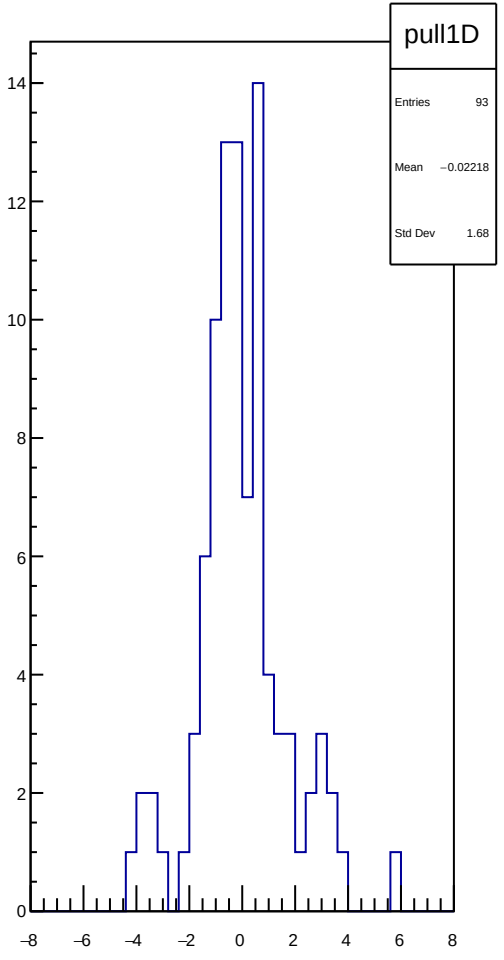

asym_sam2_rms vs run
χ² / ndf 6557 / 92
p0 1805 ± 1.362
2100
2000
1900
1800
1700
1600

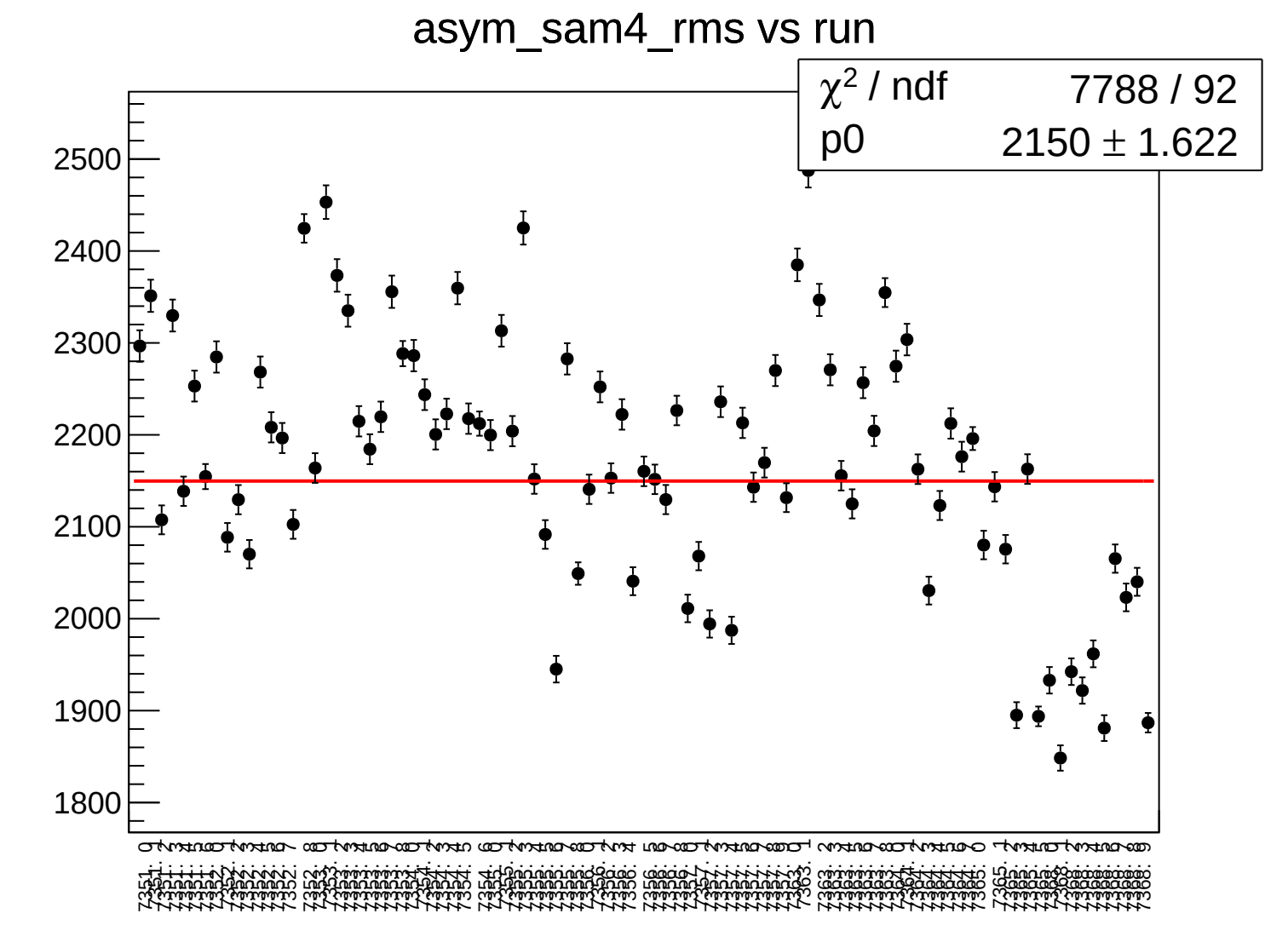

asym_sam3_mean vs run
χ² / ndf 296.7 / 92
p0 −1000 ± 757.9
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −43.59
Std Dev 92.05
6
4
2
0
−2
−4

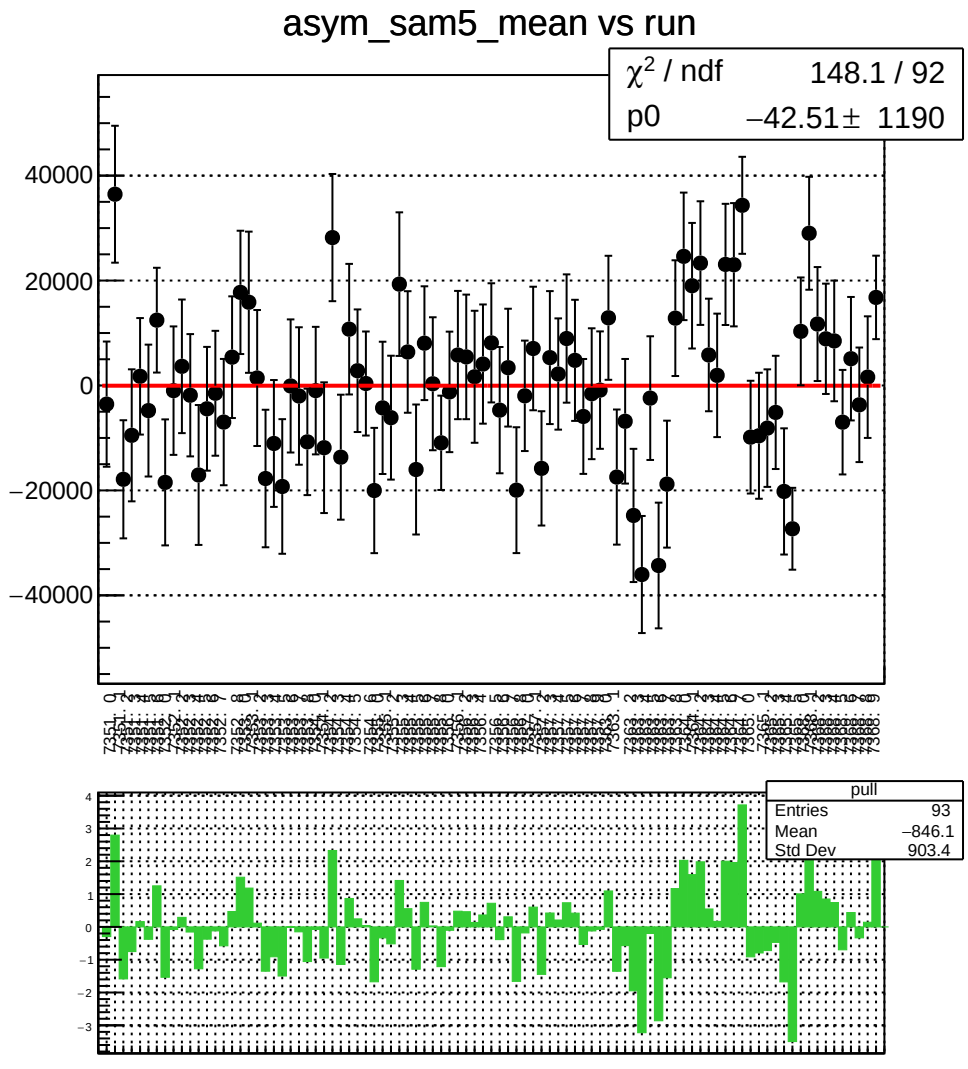

pull1D
Entries 93
Mean −0.03108
Std Dev 1.786
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

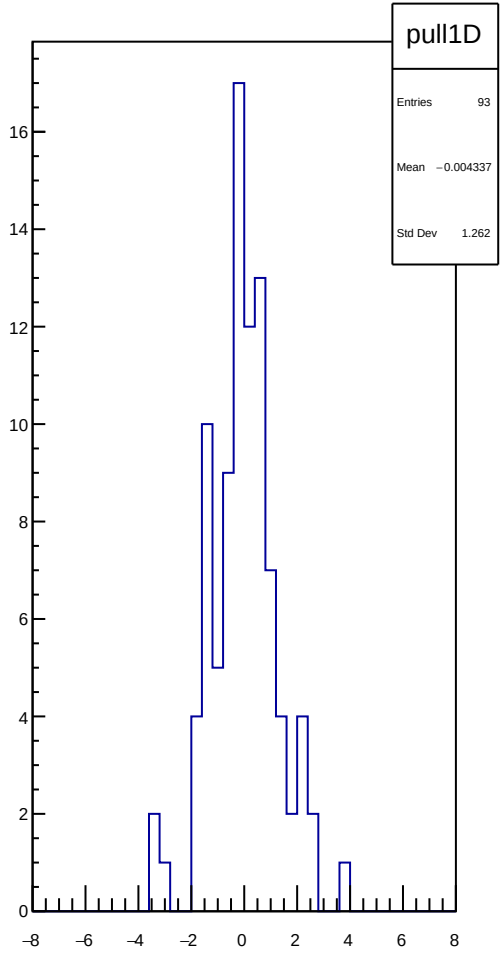

asym_sam3_rms vs run
χ^2 / ndf 9981 / 92
p0 709.7 ± 0.5359
850
800
750
700
650
600

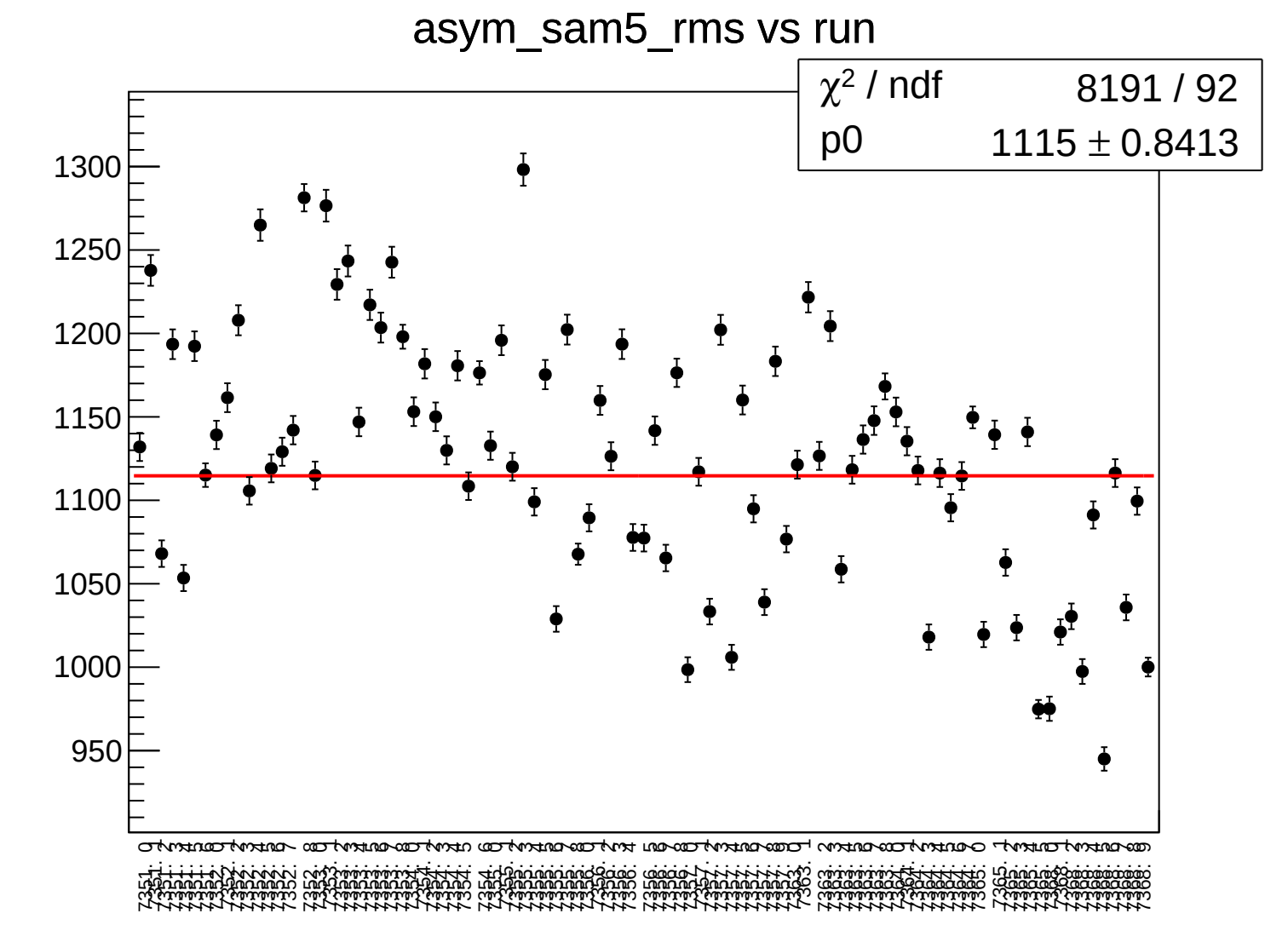

asym_sam4_mean vs run
×10^3
χ² / ndf 262.5 / 92
p0 −2025 ± 2294
100
50
0
−50
−100
pull
Entries 93
Mean −141.4
Std Dev 194.6
6
4
2
0
−2
−4

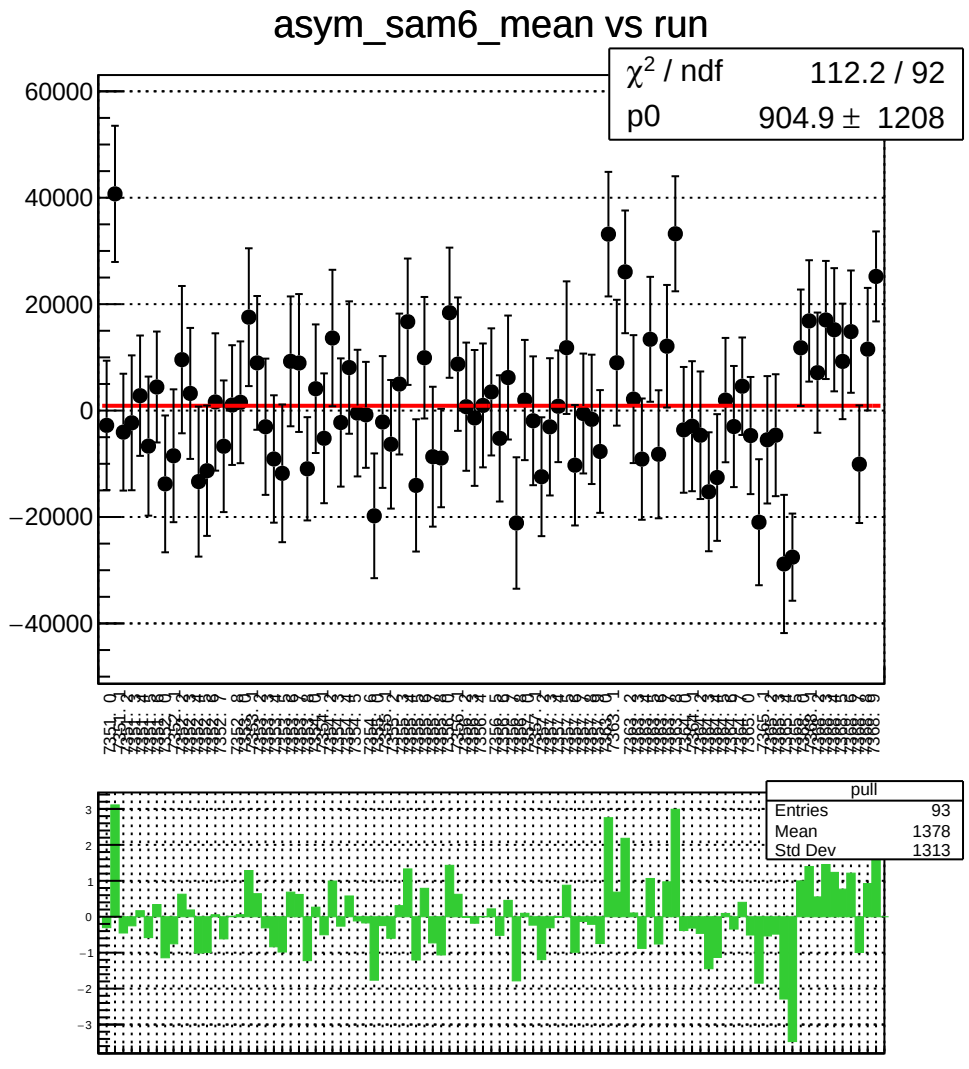

pull1D
Entries 93
Mean −0.02218
Std Dev 1.68
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

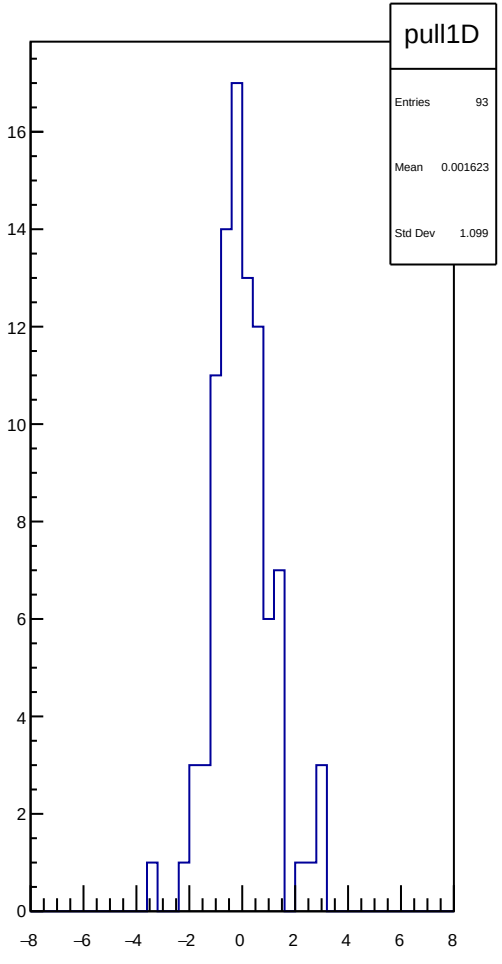

asym_sam4_rms vs run
χ² / ndf 7788 / 92
p0 2150 ± 1.622
2500
2400
2300
2200
2100
2000
1900
1800

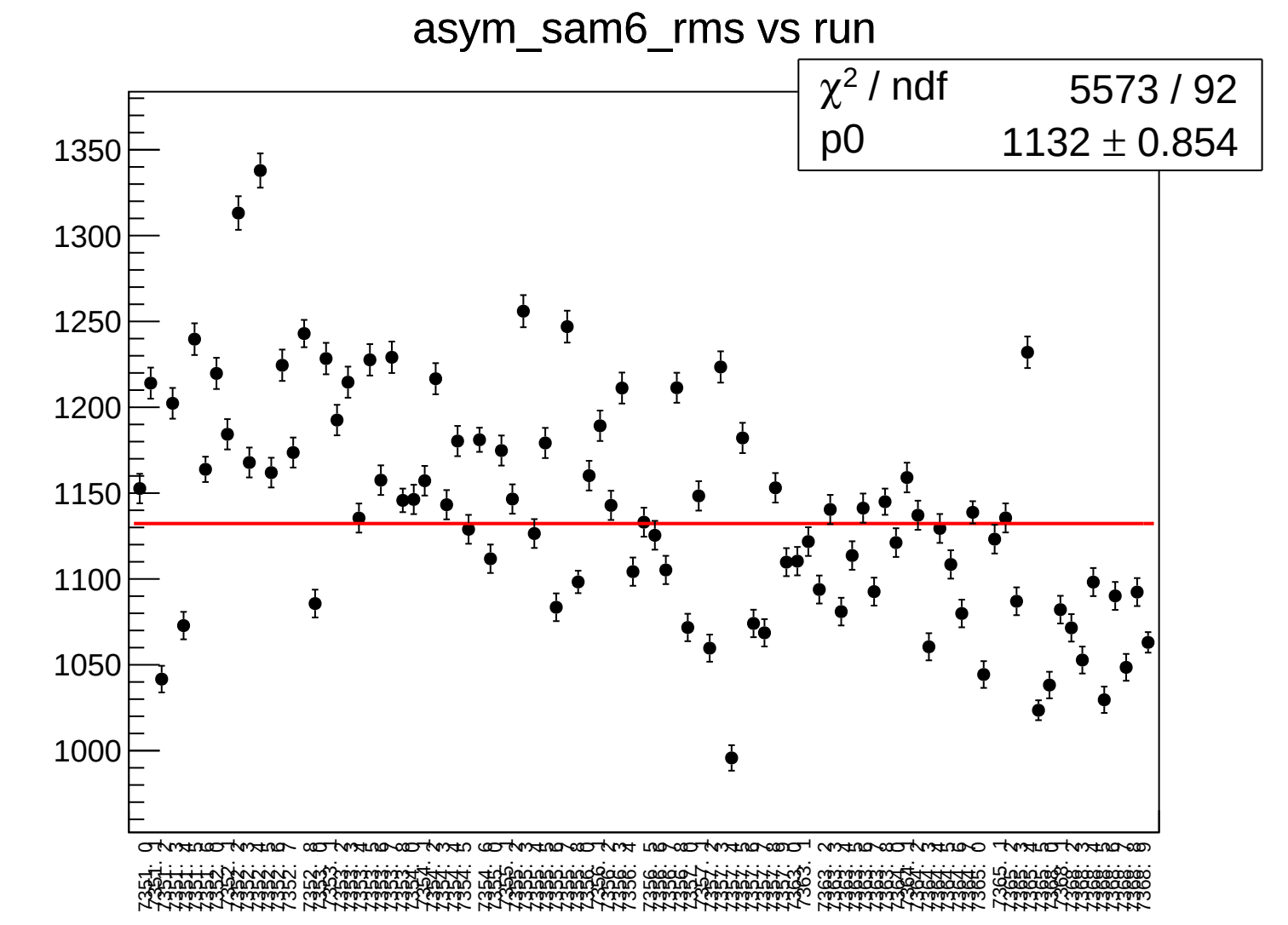

asym_sam5_mean vs run
χ² / ndf 148.1 / 92
p0 −42.51± 1190
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −846.1
Std Dev 903.4
4
3
2
1
0
−1
−2
−3

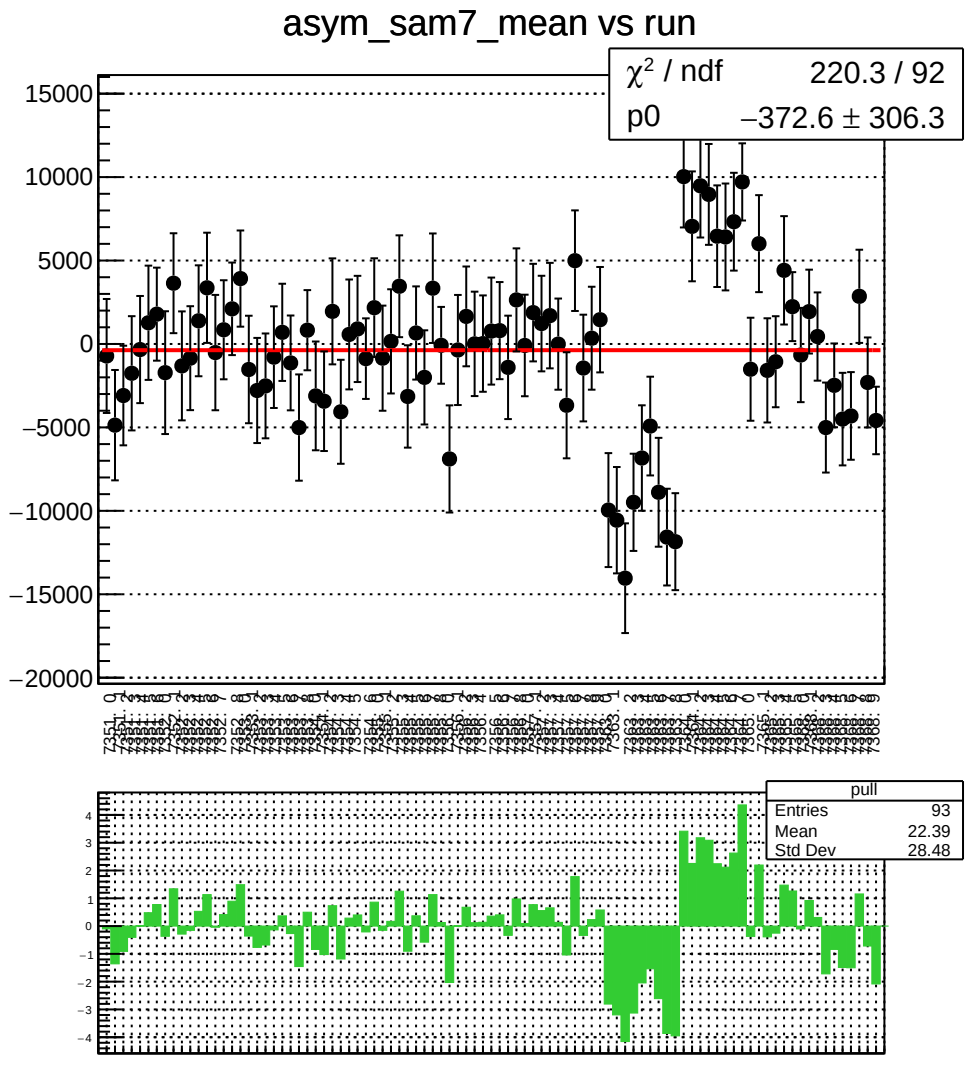

pull1D
Entries 93
Mean −0.004337
Std Dev 1.262
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

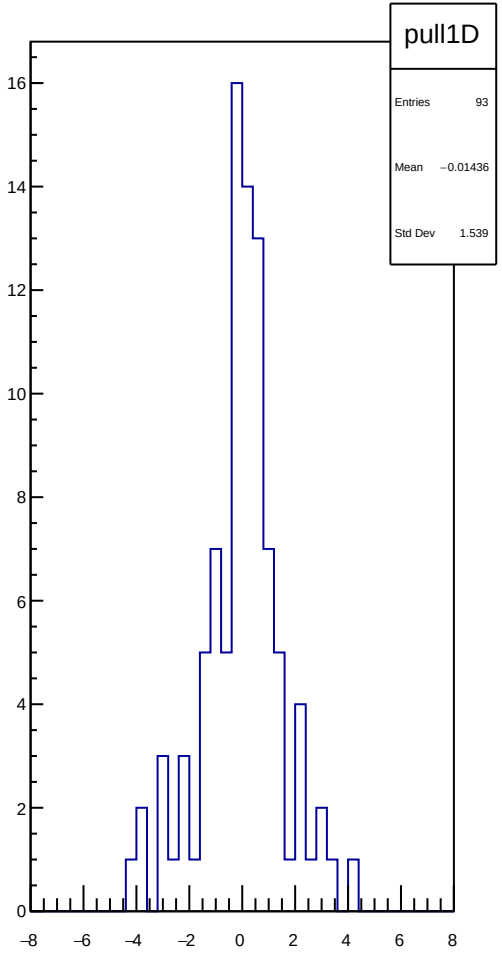

asym_sam5_rms vs run
χ² / ndf 8191 / 92
p0 1115 ± 0.8413
1300
1250
1200
1150
1100
1050
1000
950

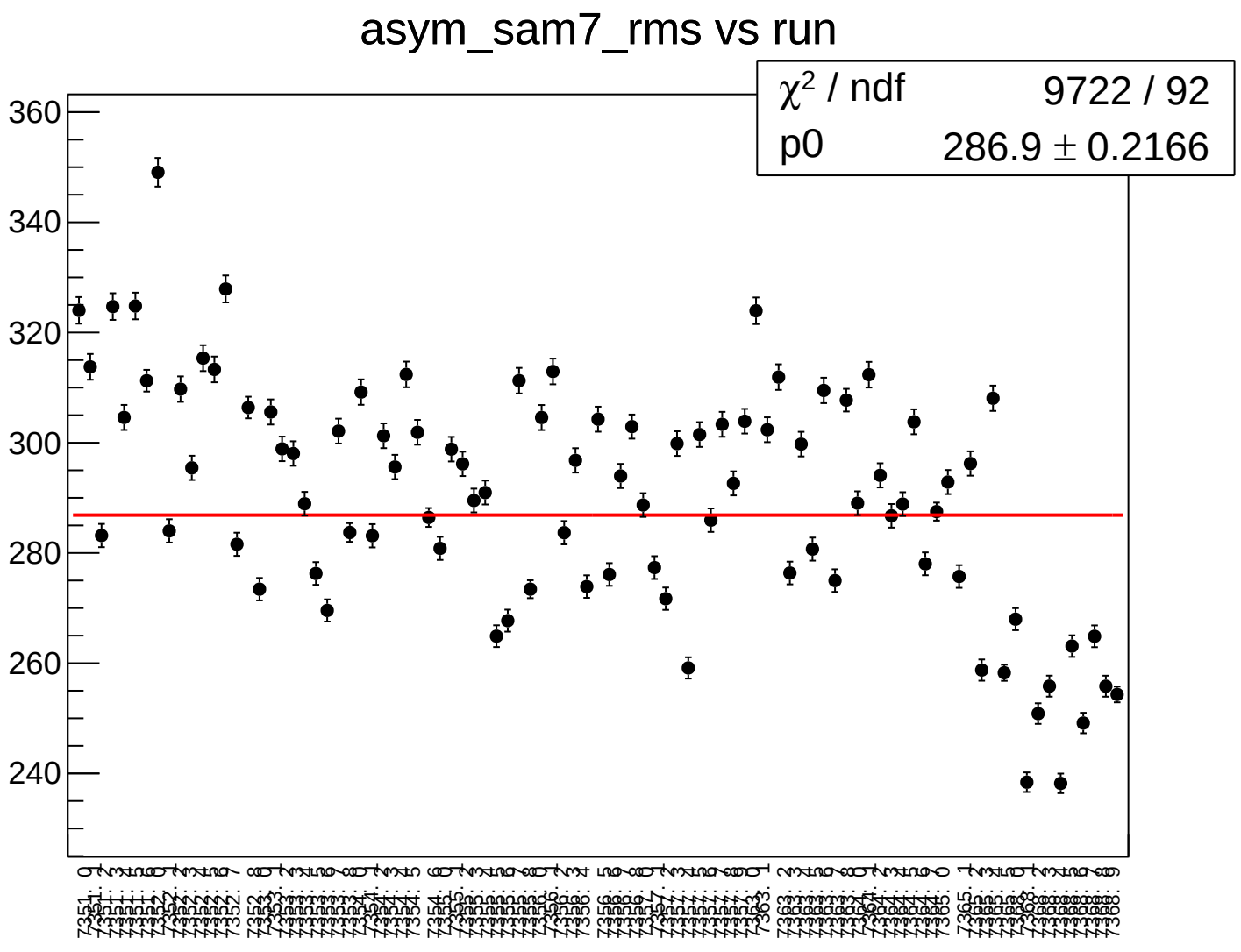

asym_sam6_mean vs run
χ² / ndf 112.2 / 92
p0 904.9 ± 1208
60000
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1378
Std Dev 1313
3
2
1
0
−1
−2
−3

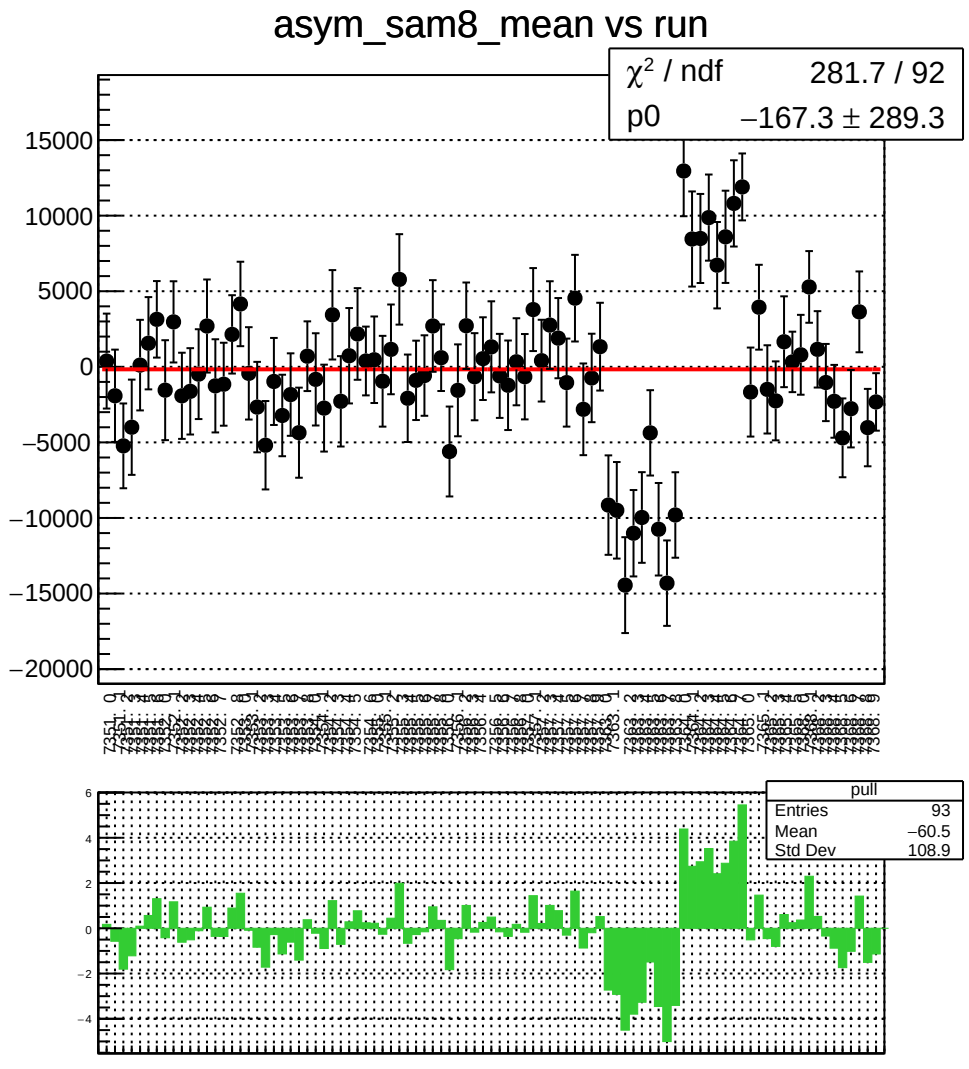

pull1D
Entries 93
Mean 0.001623
Std Dev 1.099
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

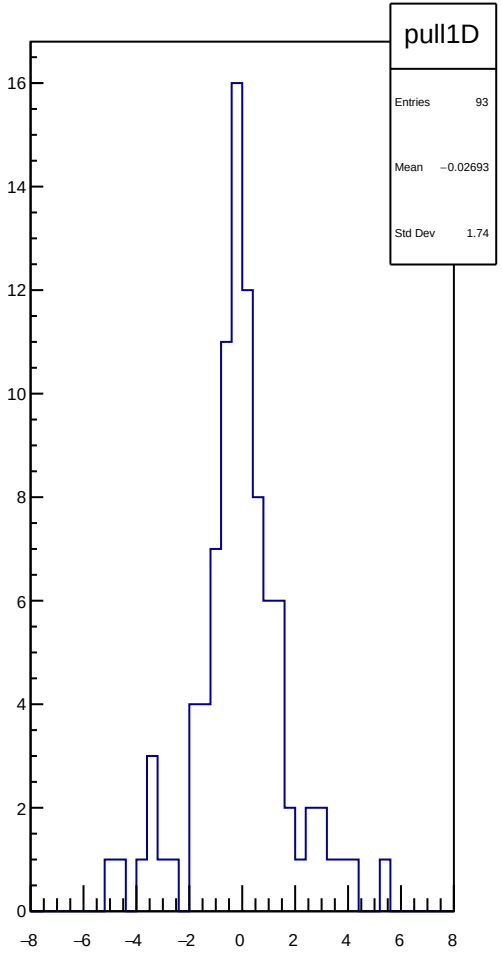

asym_sam6_rms vs run
χ² / ndf 5573 / 92
p0 1132 ± 0.854
1350
1300
1250
1200
1150
1100
1050
1000

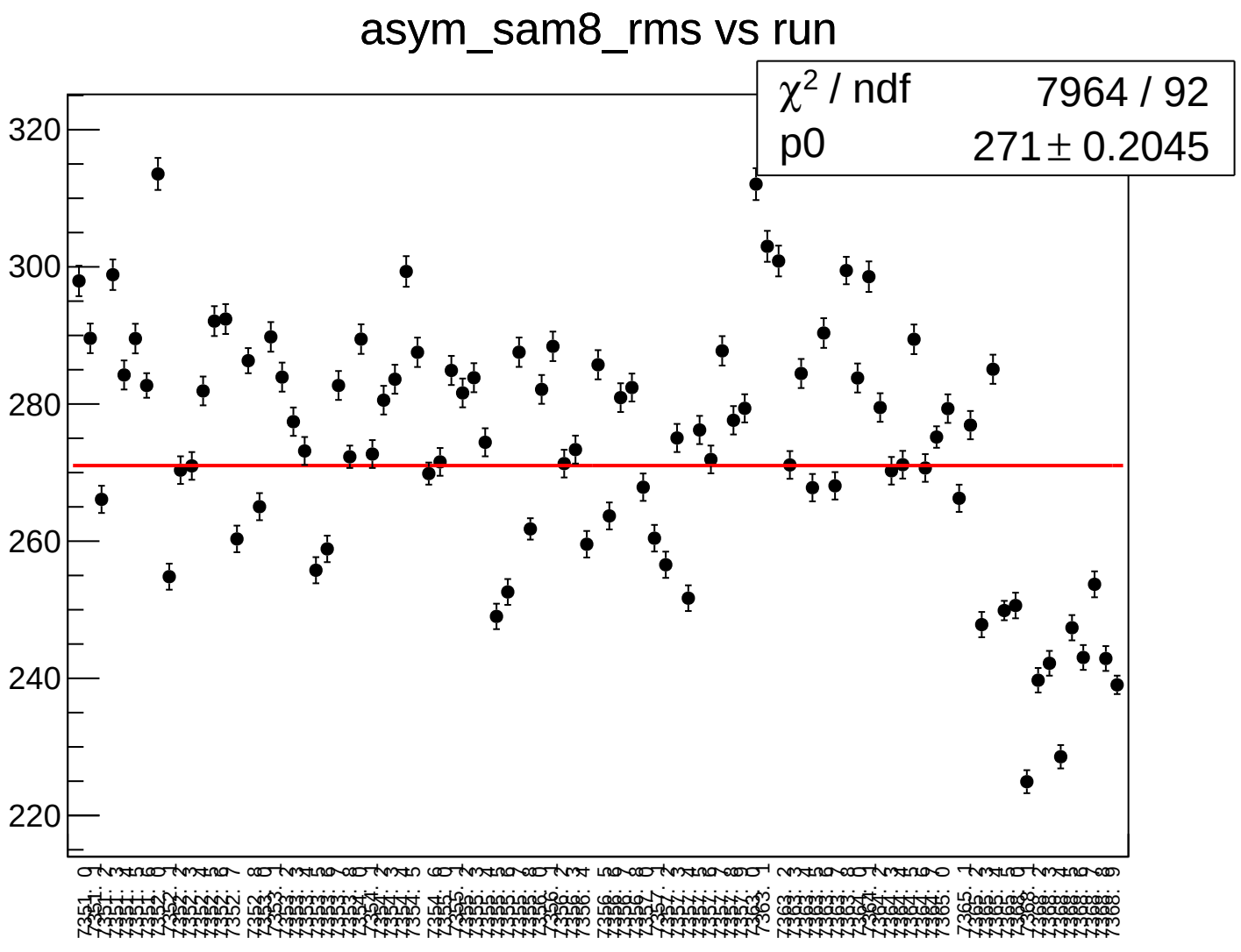

asym_sam7_mean vs run
χ² / ndf 220.3 / 92
p0 −372.6 ± 306.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean 22.39
Std Dev 28.48
4
3
2
1
0
−1
−2
−3
−4

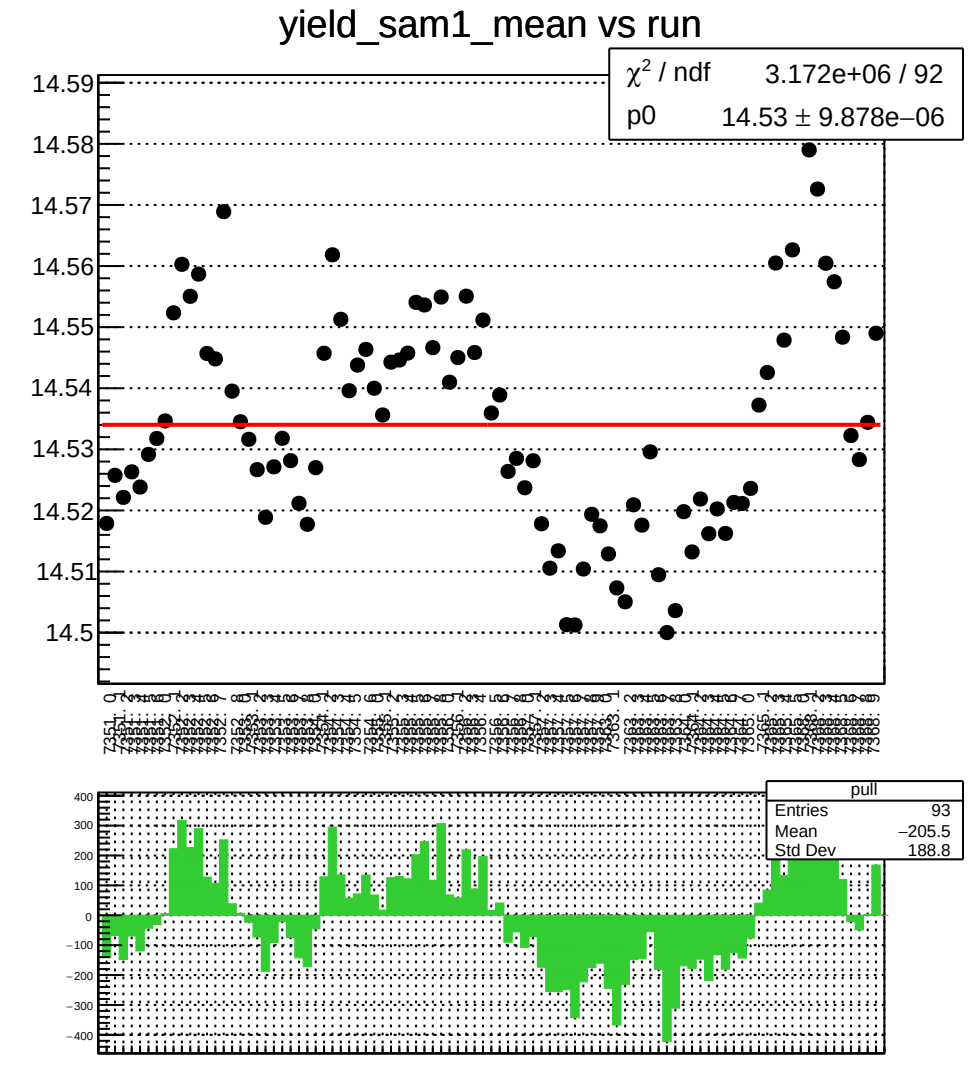

pull1D
Entries 93
Mean −0.01436
Std Dev 1.539
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

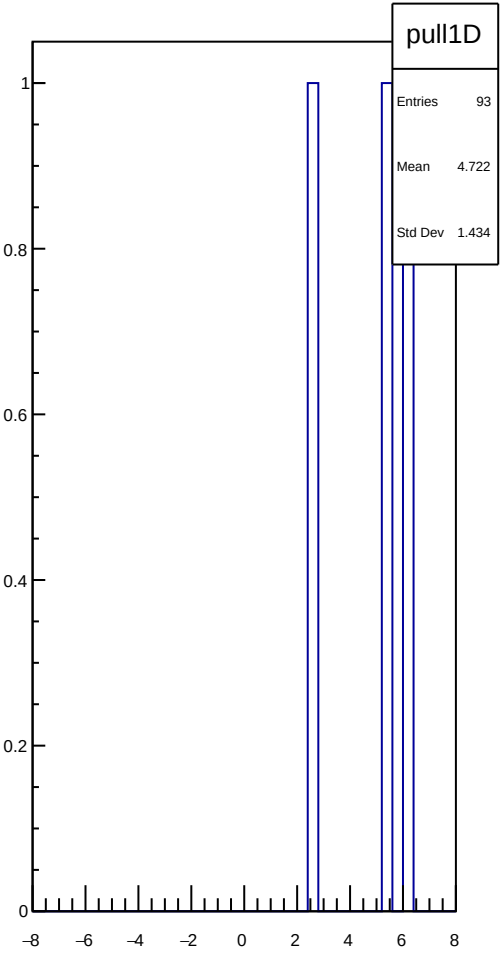

asym_sam7_rms vs run
χ² / ndf 9722 / 92
p0 286.9 ± 0.2166
360
340
320
300
280
260
240

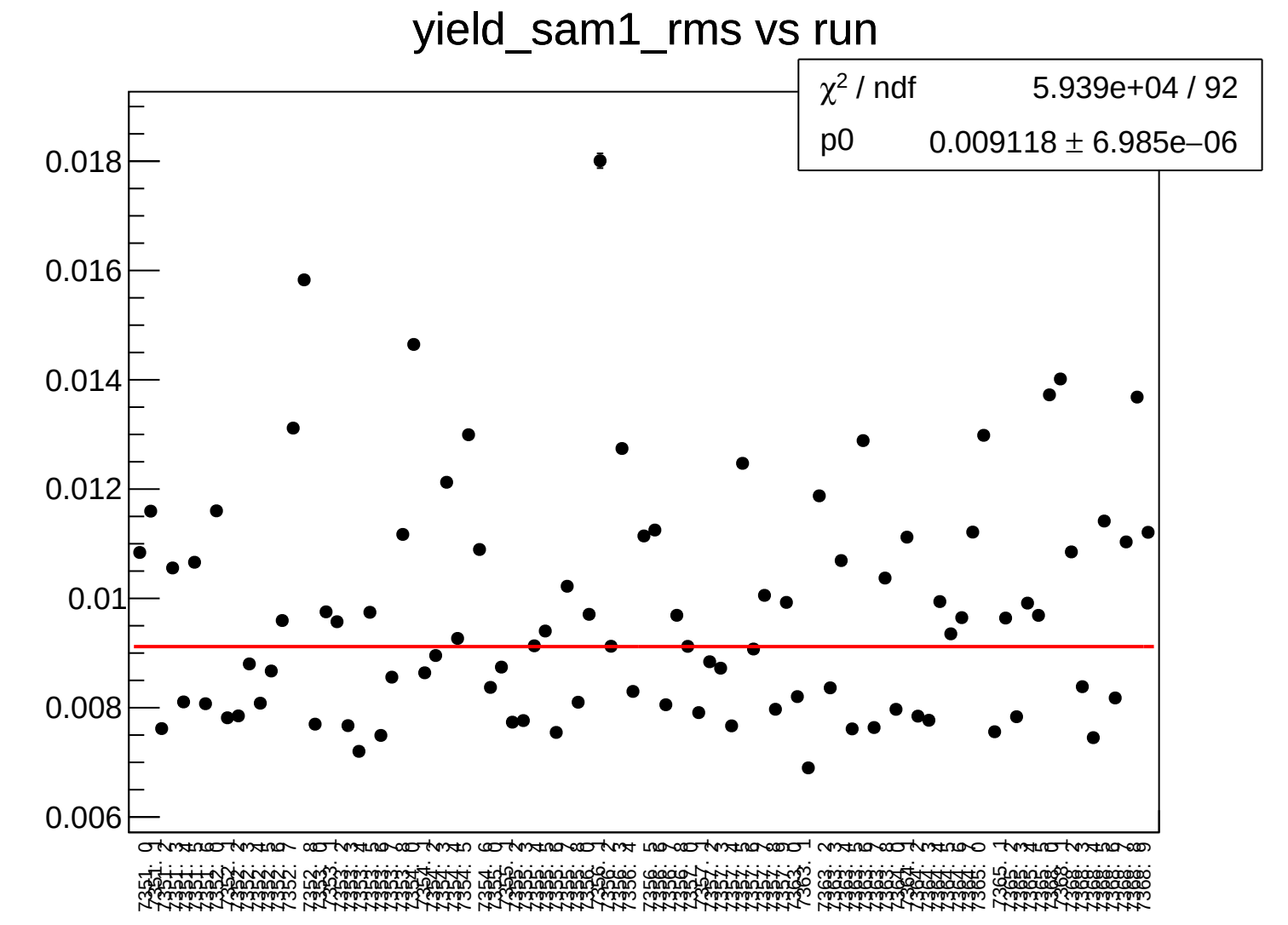

asym_sam8_mean vs run
χ² / ndf 281.7 / 92
p0 −167.3 ± 289.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −60.5
Std Dev 108.9
6
4
2
0
−2
−4

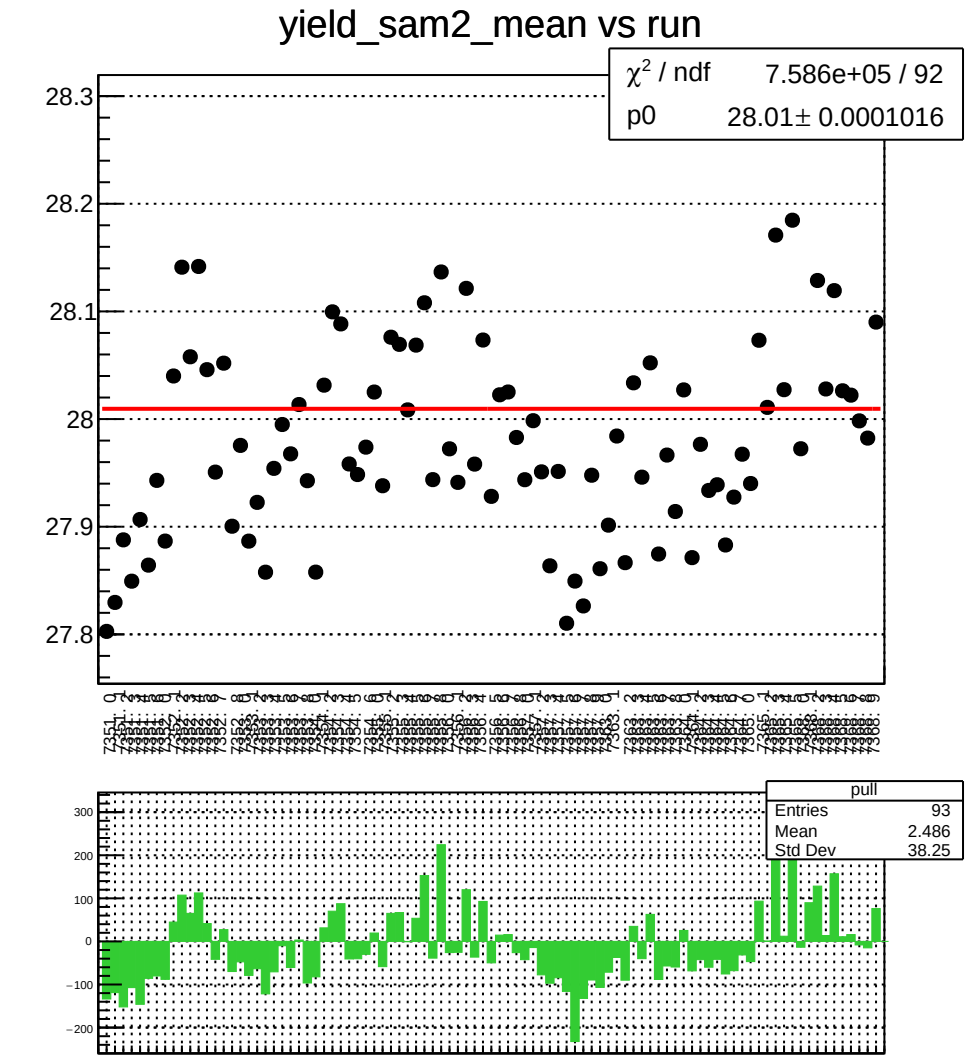

pull1D
Entries 93
Mean −0.02693
Std Dev 1.74
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

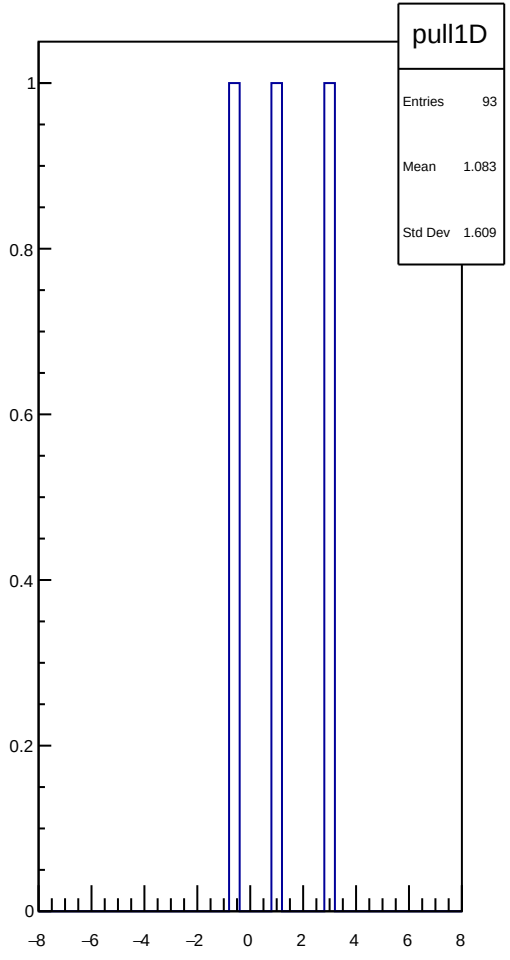

asym_sam8_rms vs run
χ² / ndf 7964 / 92
p0 271 ± 0.2045
320
300
280
260
240
220

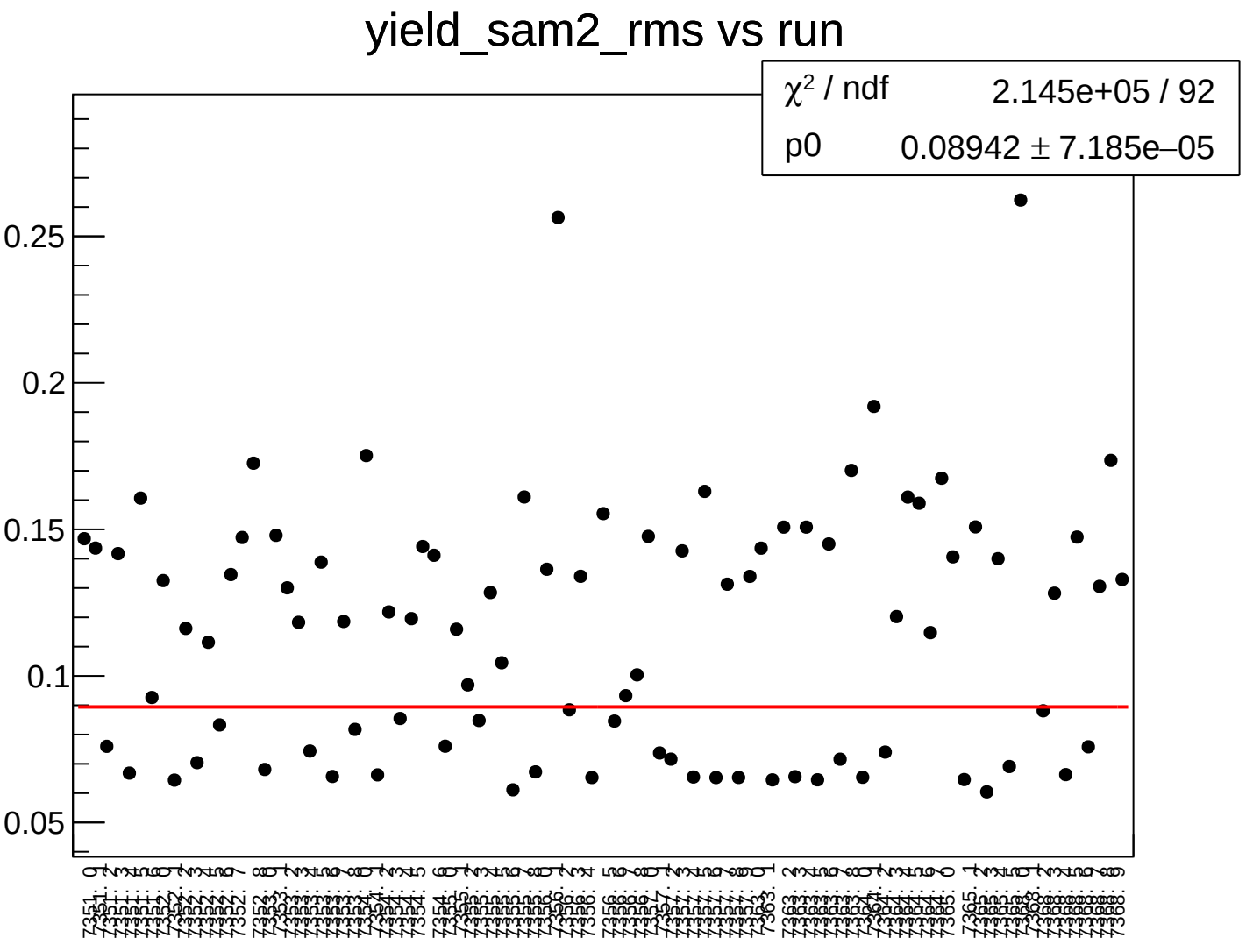

yield_sam1_mean vs run
χ² / ndf 3.172e+06 / 92
p0 14.53 ± 9.878e−06
14.59
14.58
14.57
14.56
14.55
14.54
14.53
14.52
14.51
14.5
pull
Entries 93
Mean −205.5
Std Dev 188.8
400
300
200
100
0
−100
−200
−300
−400

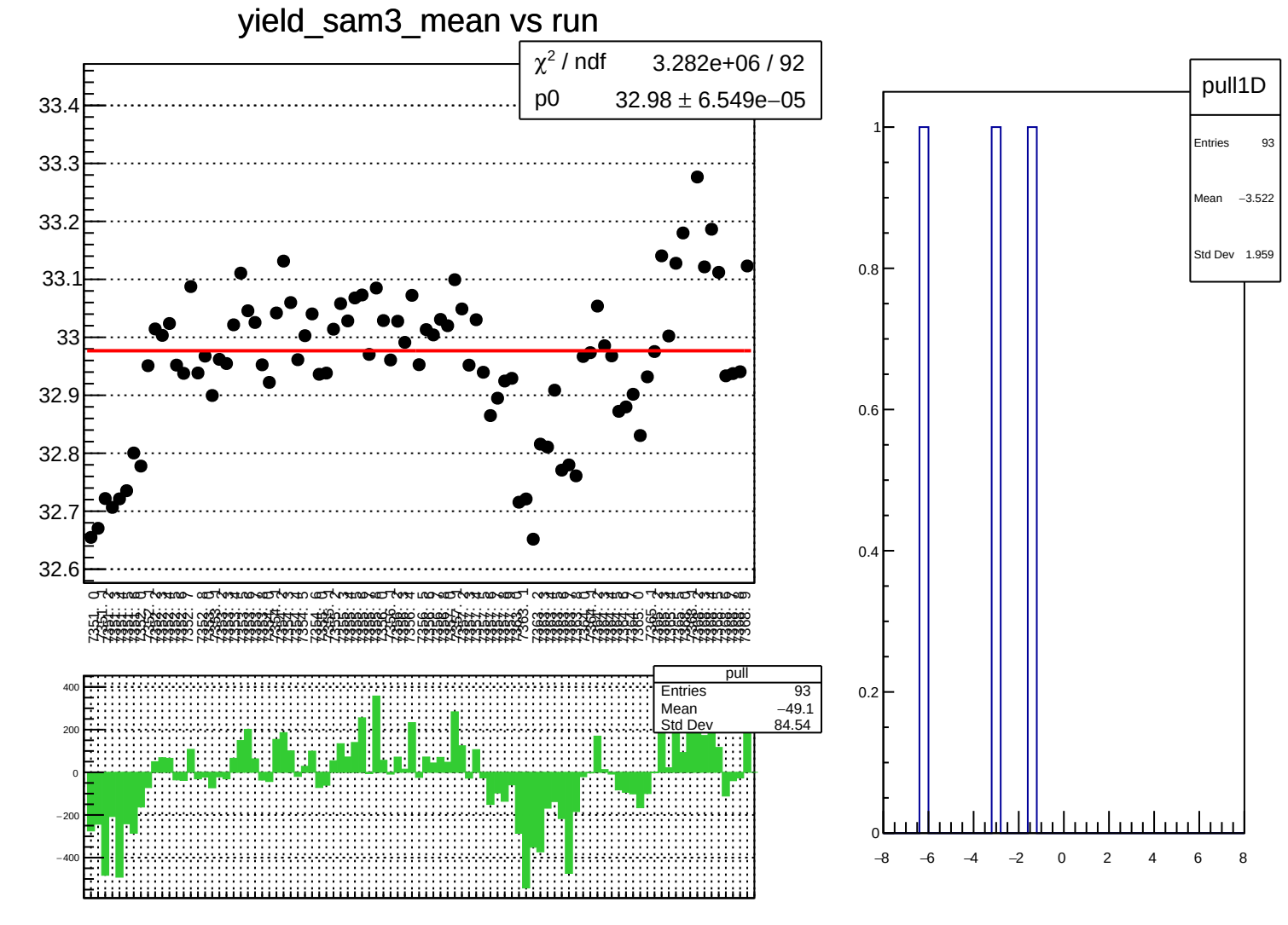

pull1D
Entries 93
Mean 4.722
Std Dev 1.434
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

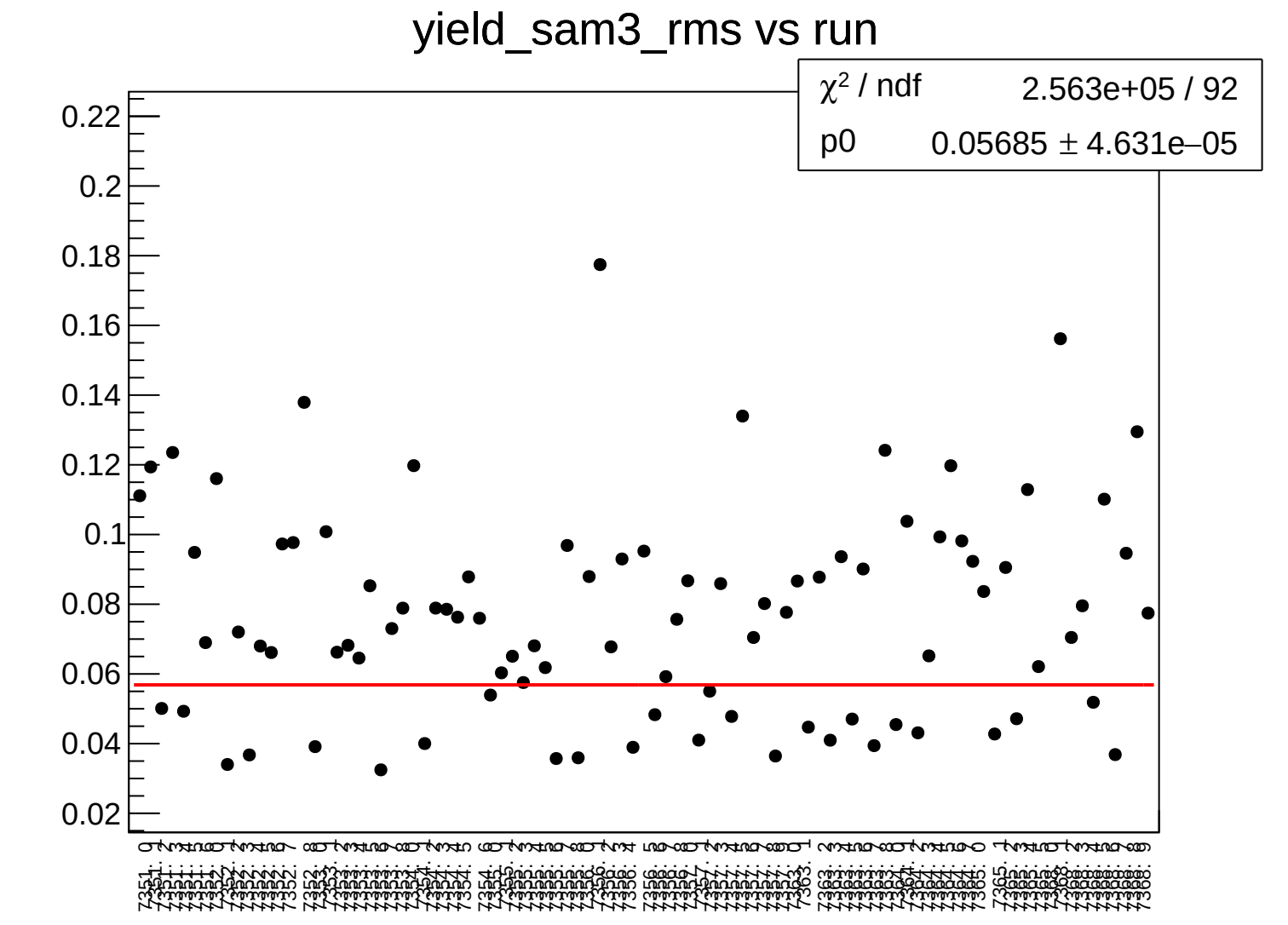

yield_sam1_rms vs run
χ^2 / ndf 5.939e+04 / 92
p0 0.009118 ± 6.985e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

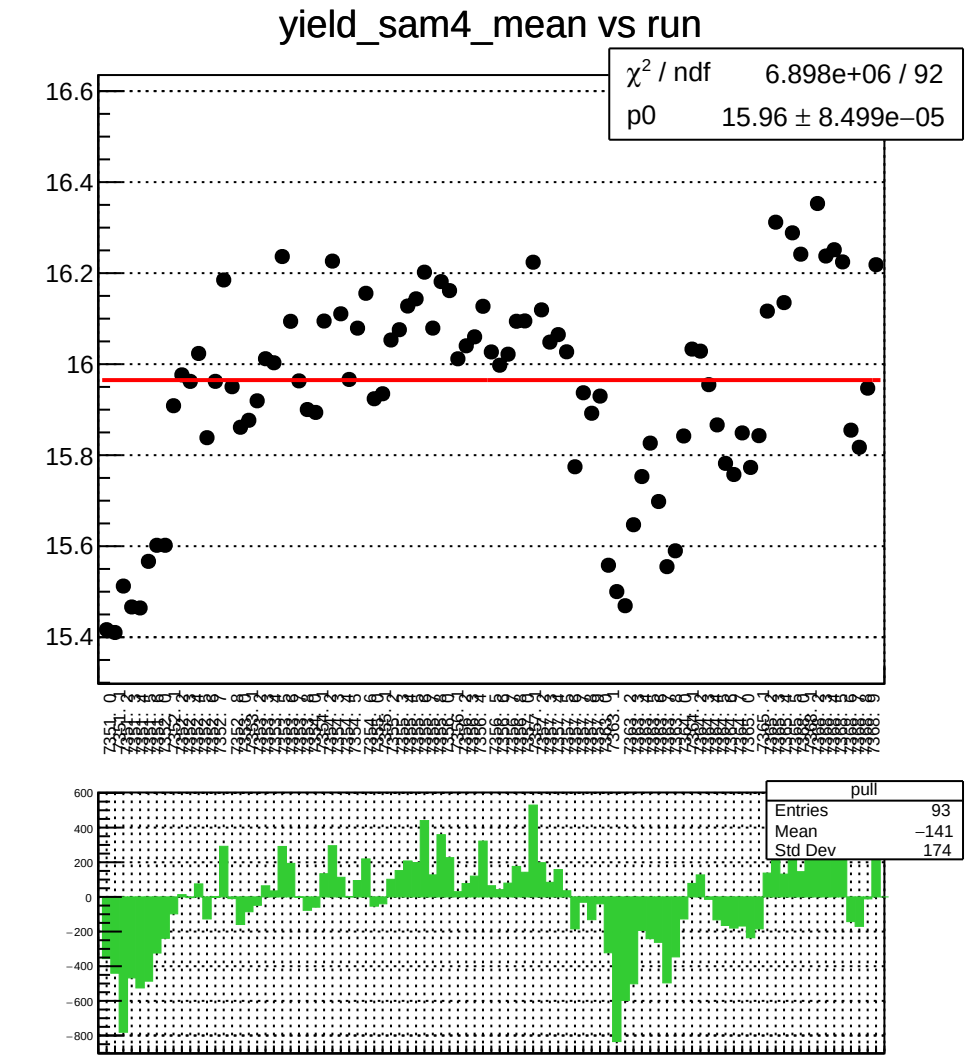

yield_sam2_mean vs run
χ² / ndf 7.586e+05 / 92
p0 28.01± 0.0001016
28.3
28.2
28.1
28
27.9
27.8
pull
Entries 93
Mean 2.486
Std Dev 38.25
300
200
100
0
−100
−200

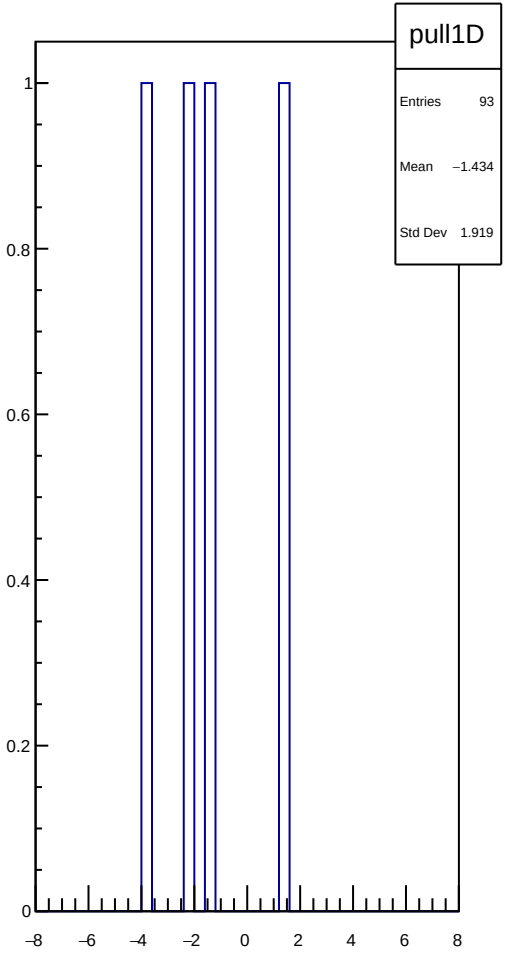

pull1D
Entries 93
Mean 1.083
Std Dev 1.609
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

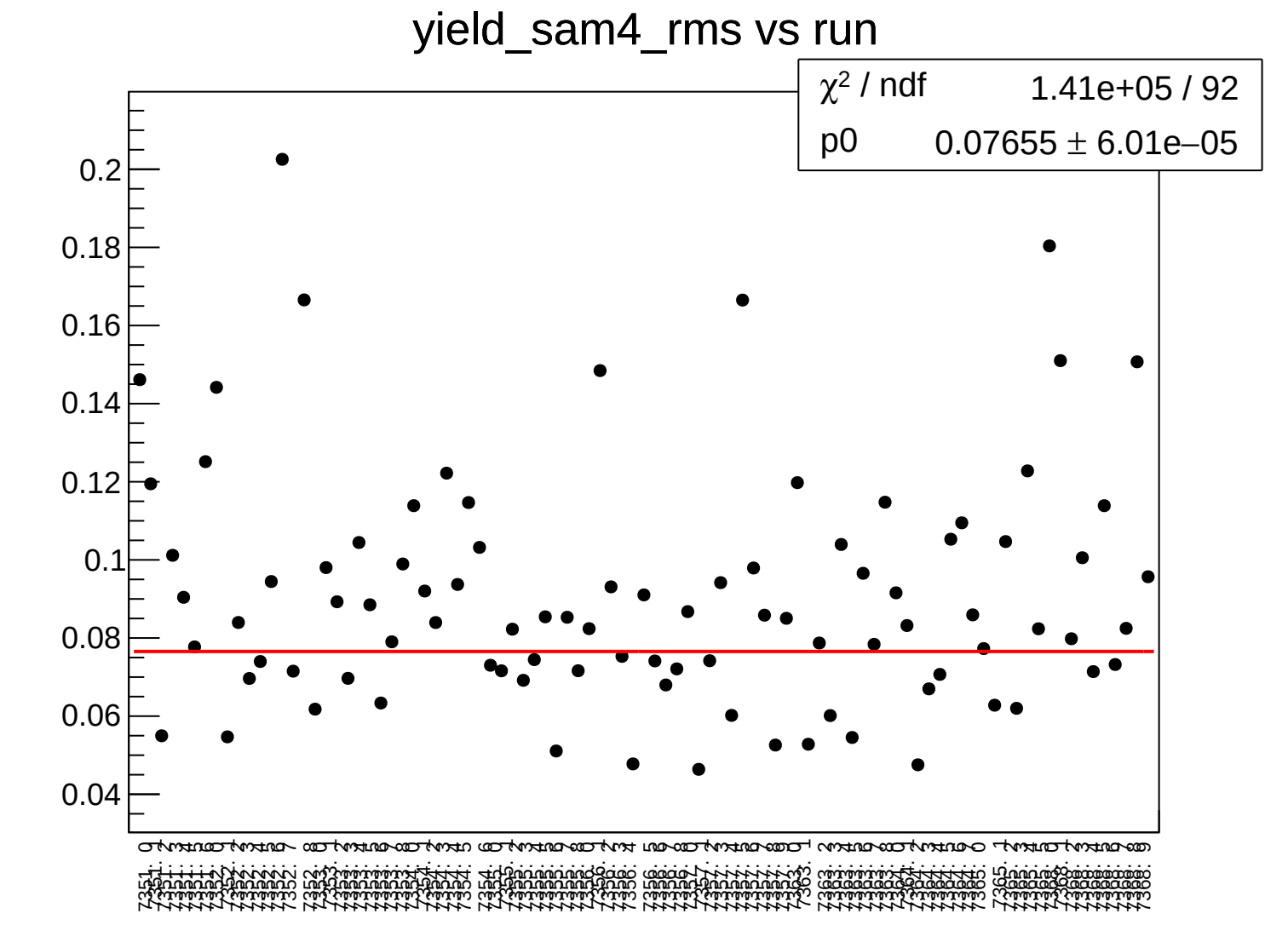

yield_sam2_rms vs run
χ² / ndf 2.145e+05 / 92
p0 0.08942 ± 7.185e−05
0.25
0.2
0.15
0.1
0.05

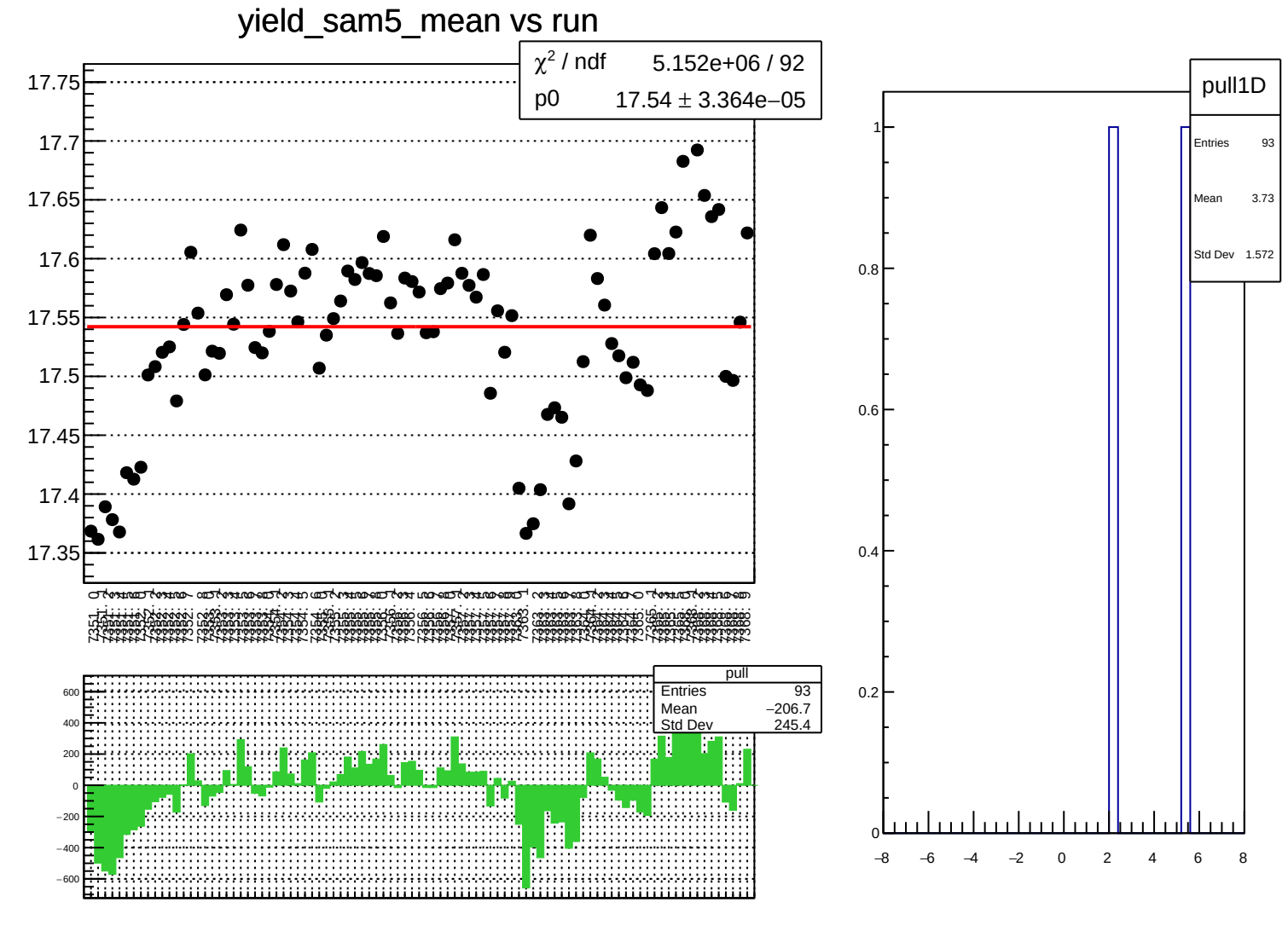

yield_sam3_mean vs run
χ² / ndf 3.282e+06 / 92
p0 32.98 ± 6.549e−05
33.4
33.3
33.2
33.1
33
32.9
32.8
32.7
32.6
pull
Entries 93
Mean −49.1
Std Dev 84.54
400
200
0
−200
−400
pull1D
Entries 93
Mean −3.522
Std Dev 1.959
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

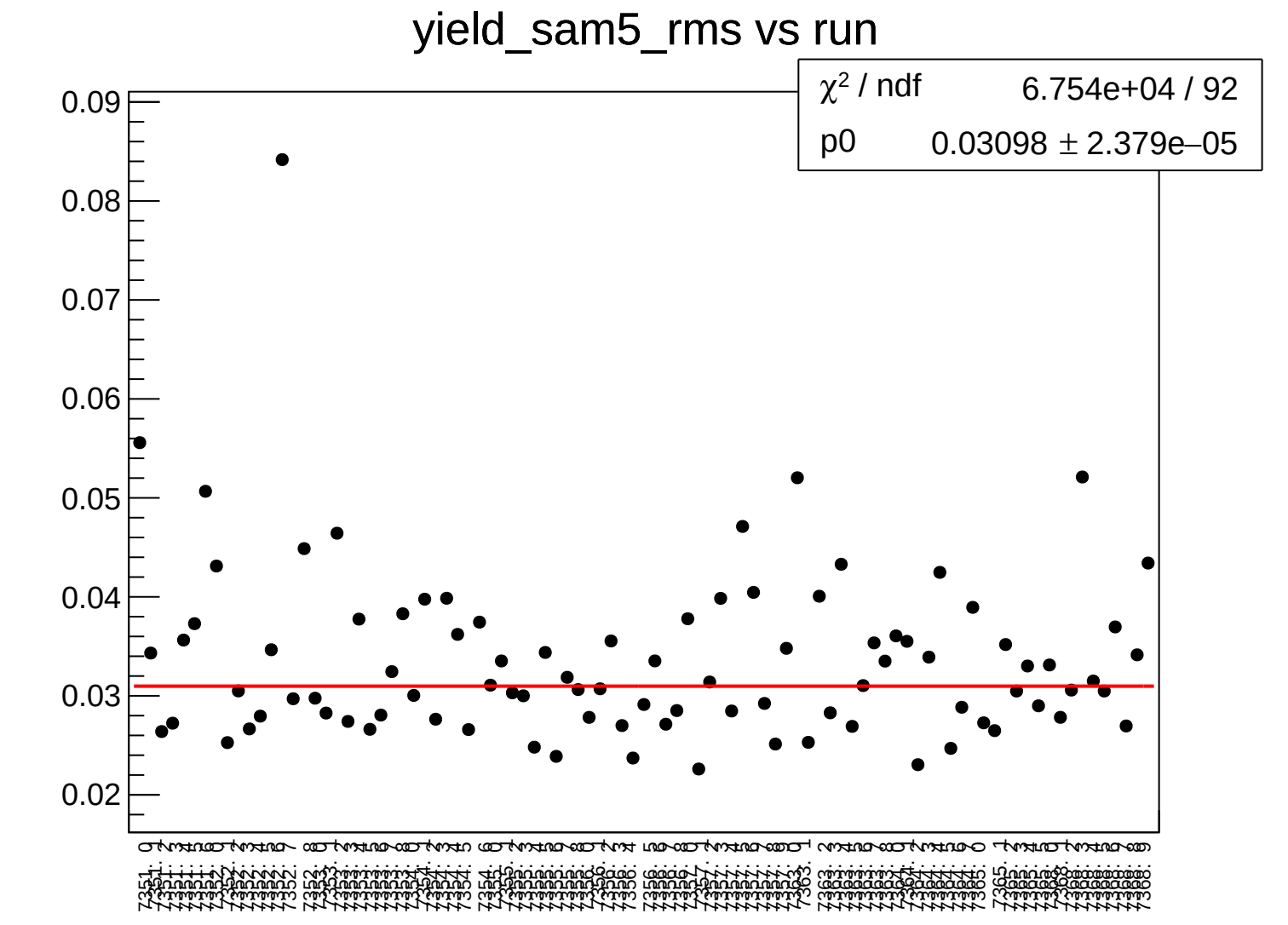

yield_sam3_rms vs run
χ² / ndf 2.563e+05 / 92
p0 0.05685 ± 4.631e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

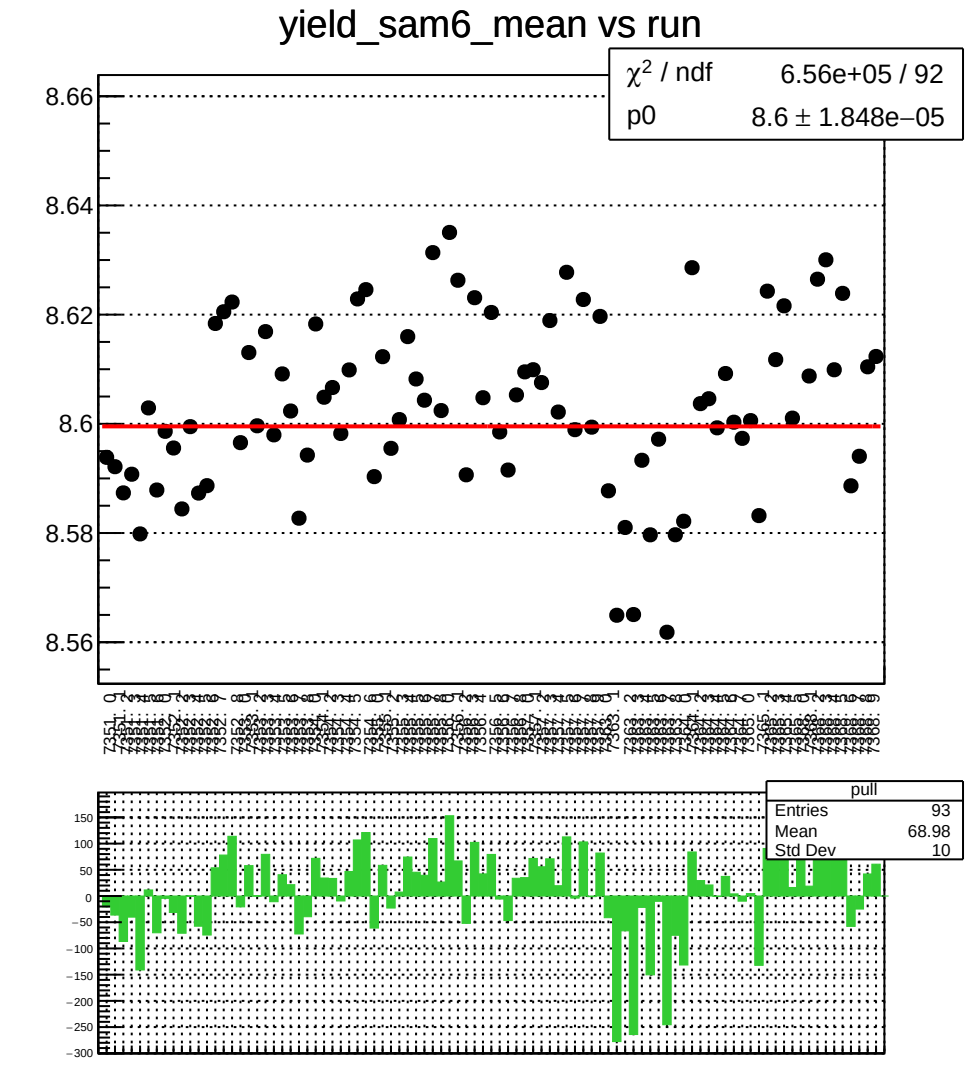

yield_sam4_mean vs run
χ² / ndf 6.898e+06 / 92
p0 15.96 ± 8.499e−05
16.6
16.4
16.2
16
15.8
15.6
15.4
pull
Entries 93
Mean −141
Std Dev 174
600
400
200
0
−200
−400
−600
−800

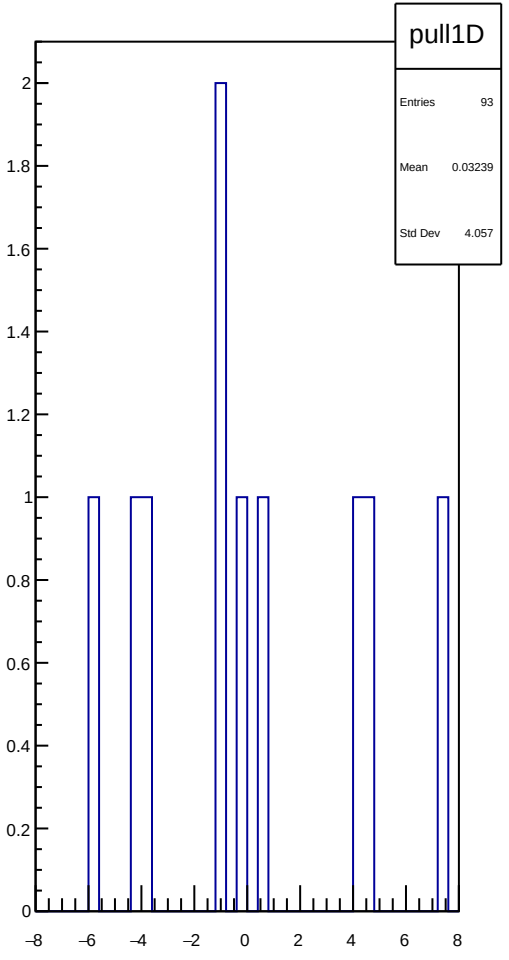

pull1D
Entries 93
Mean −1.434
Std Dev 1.919
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

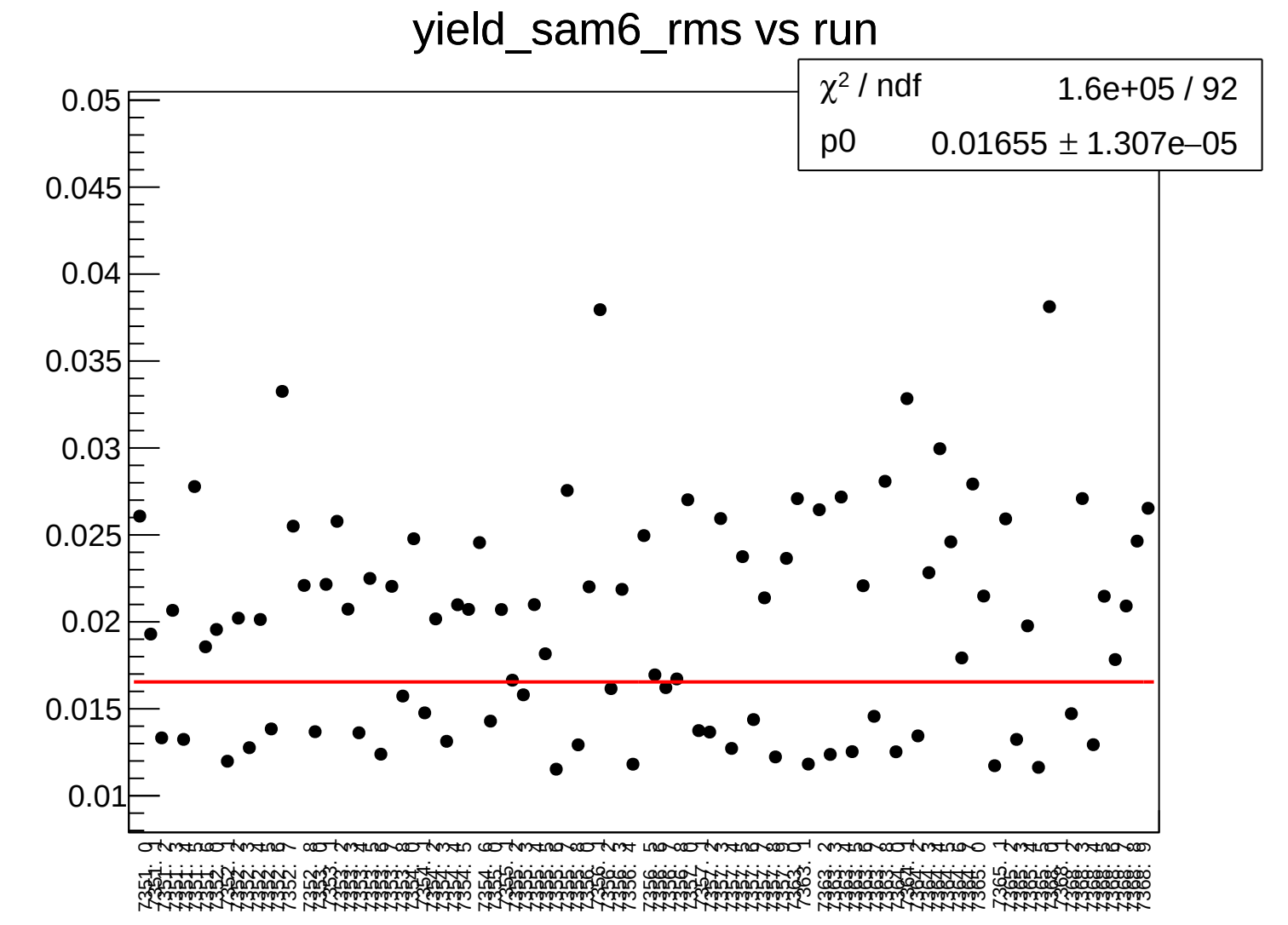

yield_sam4_rms vs run
χ² / ndf 1.41e+05 / 92
p0 0.07655 ± 6.01e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

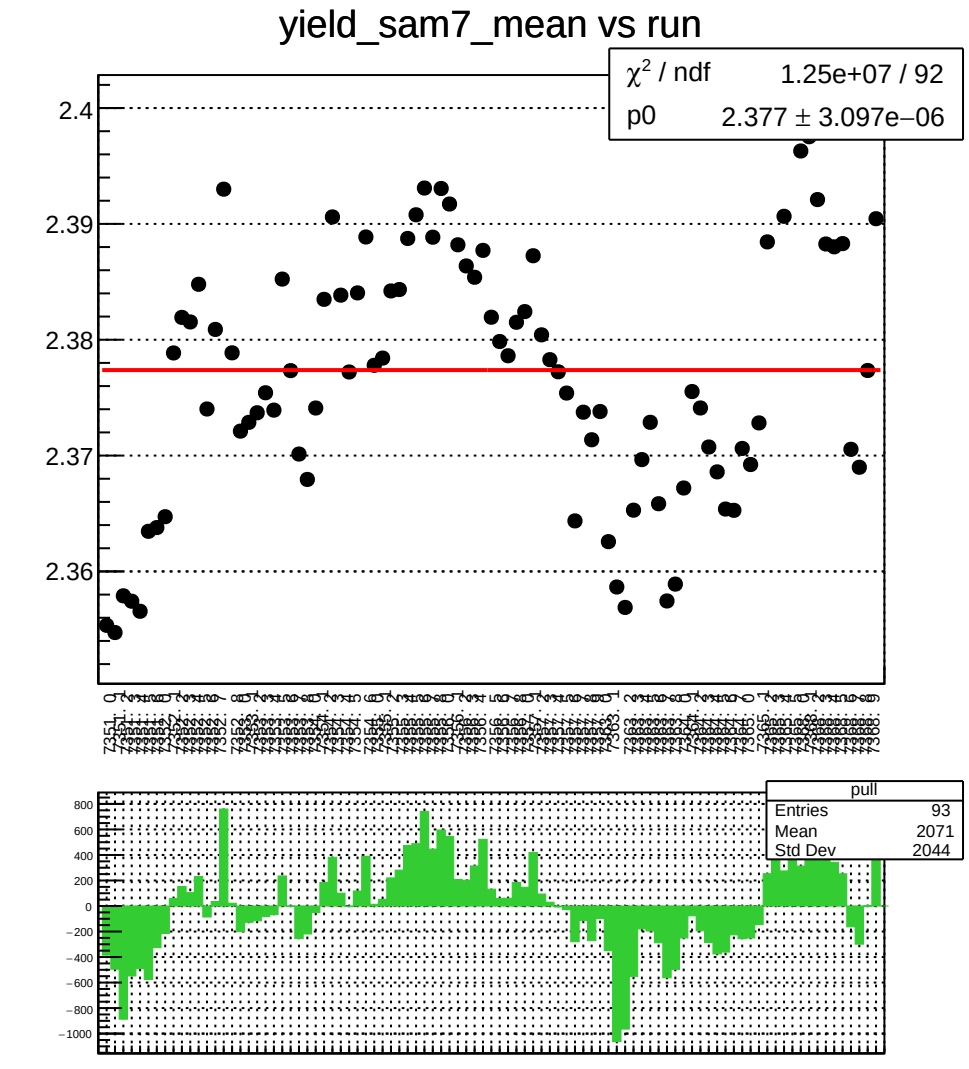

yield_sam5_mean vs run
χ² / ndf 5.152e+06 / 92
p0 17.54 ± 3.364e−05
17.75
17.7
17.65
17.6
17.55
17.5
17.45
17.4
17.35
pull
Entries 93
Mean −206.7
Std Dev 245.4
600
400
200
0
−200
−400
−600
pull1D
Entries 93
Mean 3.73
Std Dev 1.572
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

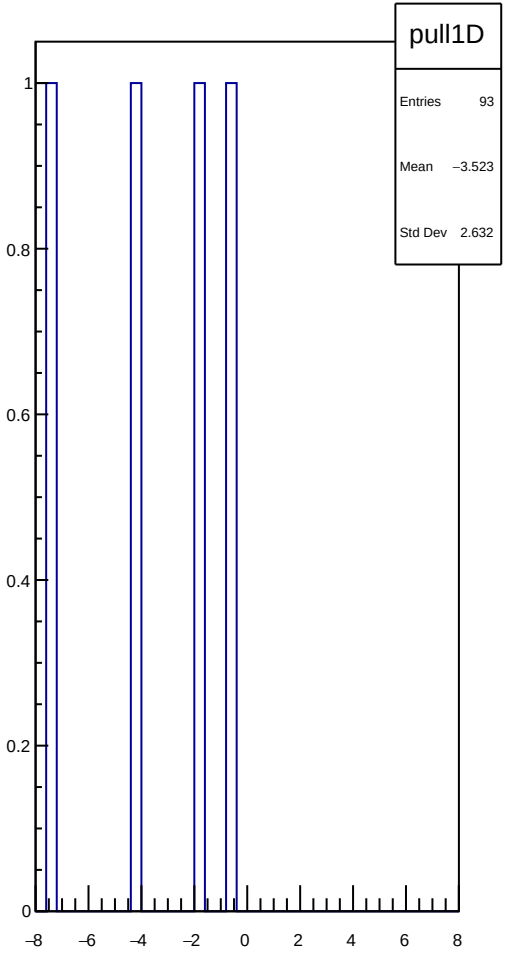

yield_sam5_rms vs run
χ² / ndf 6.754e+04 / 92
p0 0.03098 ± 2.379e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

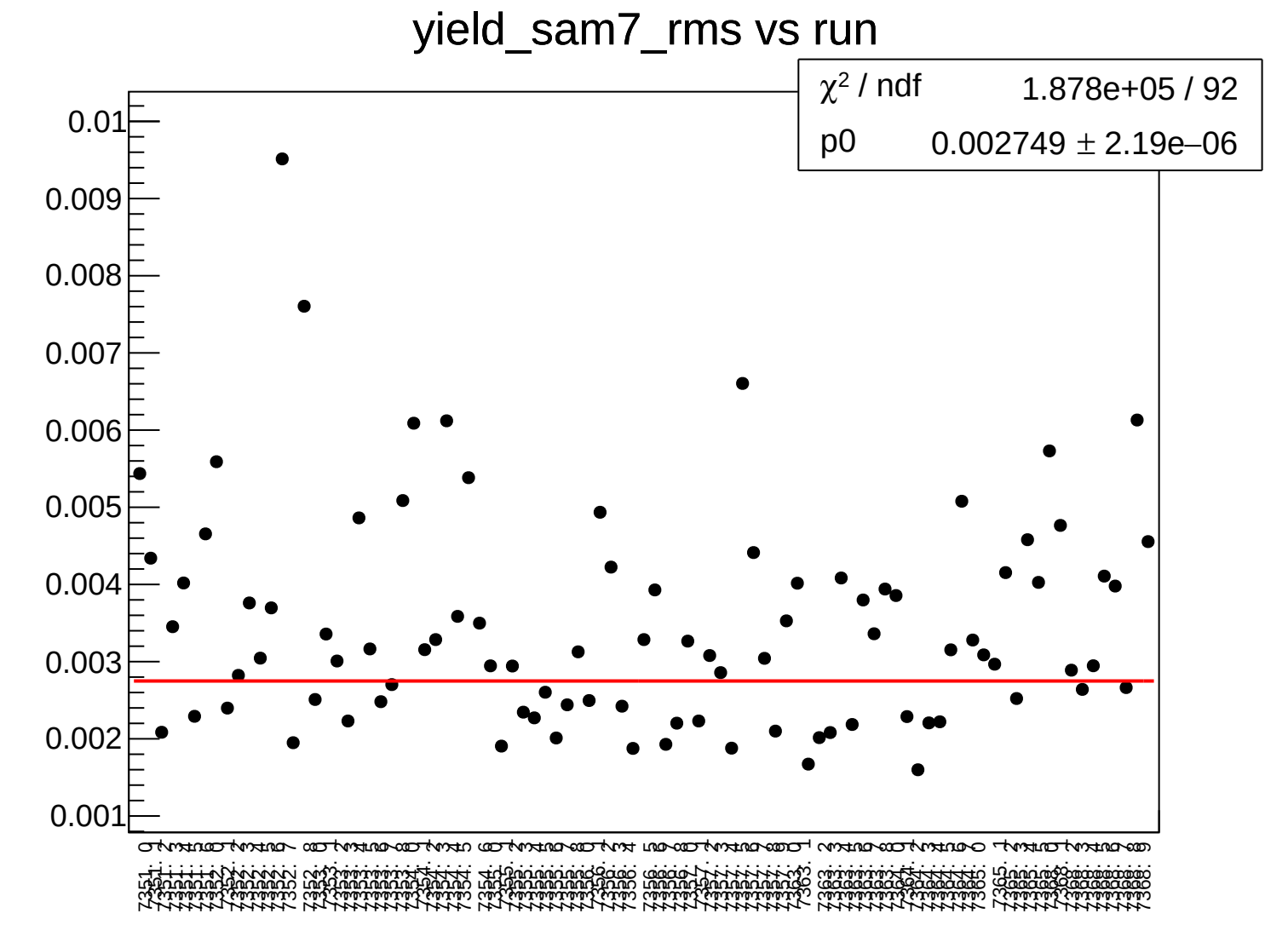

yield_sam6_mean vs run
χ² / ndf 6.56e+05 / 92
p0 8.6 ± 1.848e−05
8.66
8.64
8.62
8.6
8.58
8.56
pull
Entries 93
Mean 68.98
Std Dev 10
150
100
50
0
−50
−100
−150
−200
−250
−300

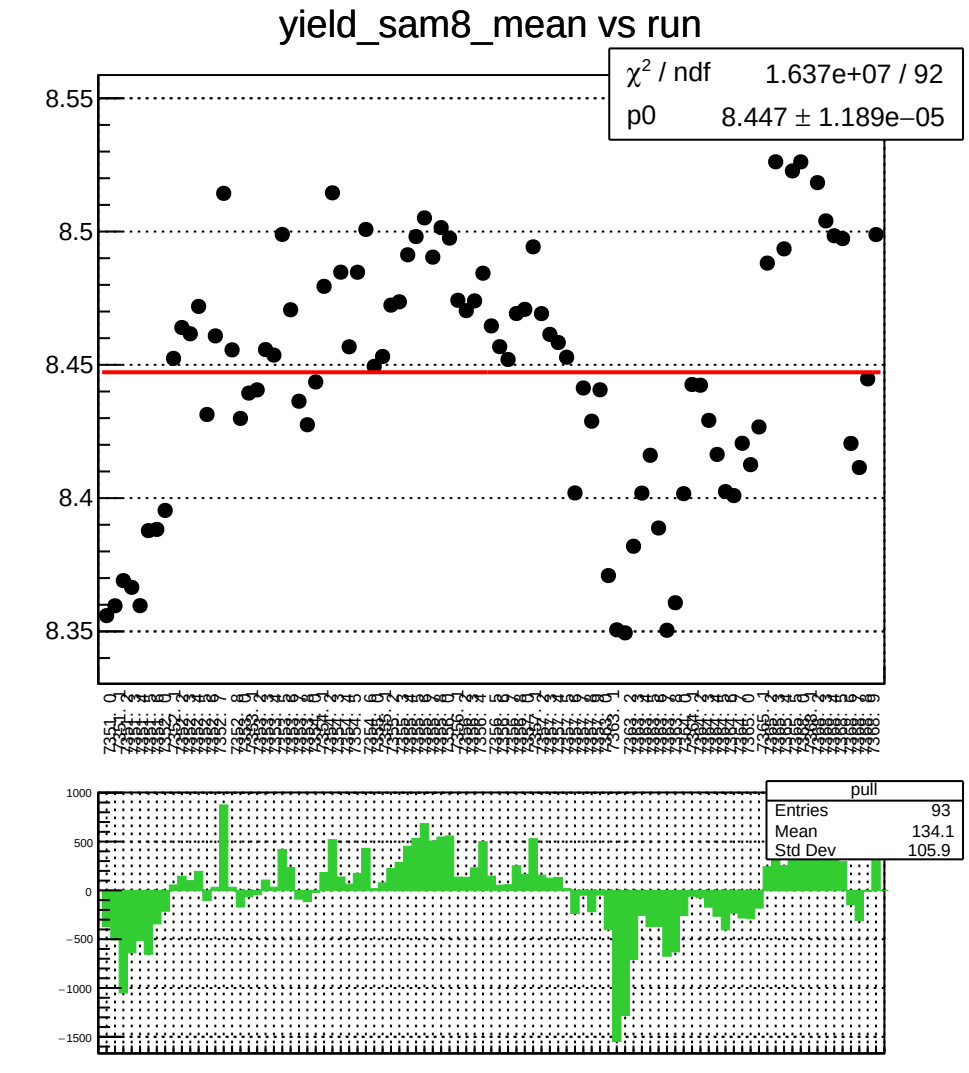

pull1D
Entries 93
Mean 0.03239
Std Dev 4.057
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

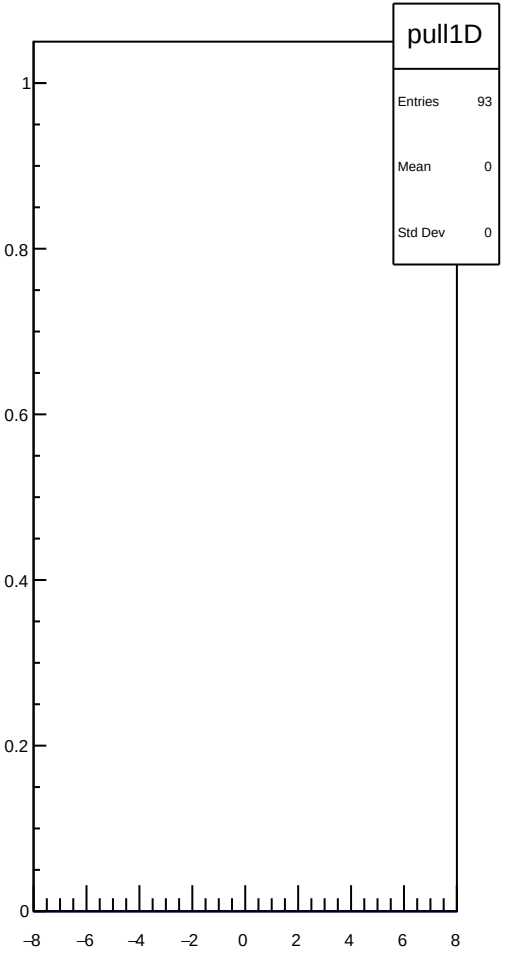

yield_sam6_rms vs run
χ² / ndf 1.6e+05 / 92
p0 0.01655 ± 1.307e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

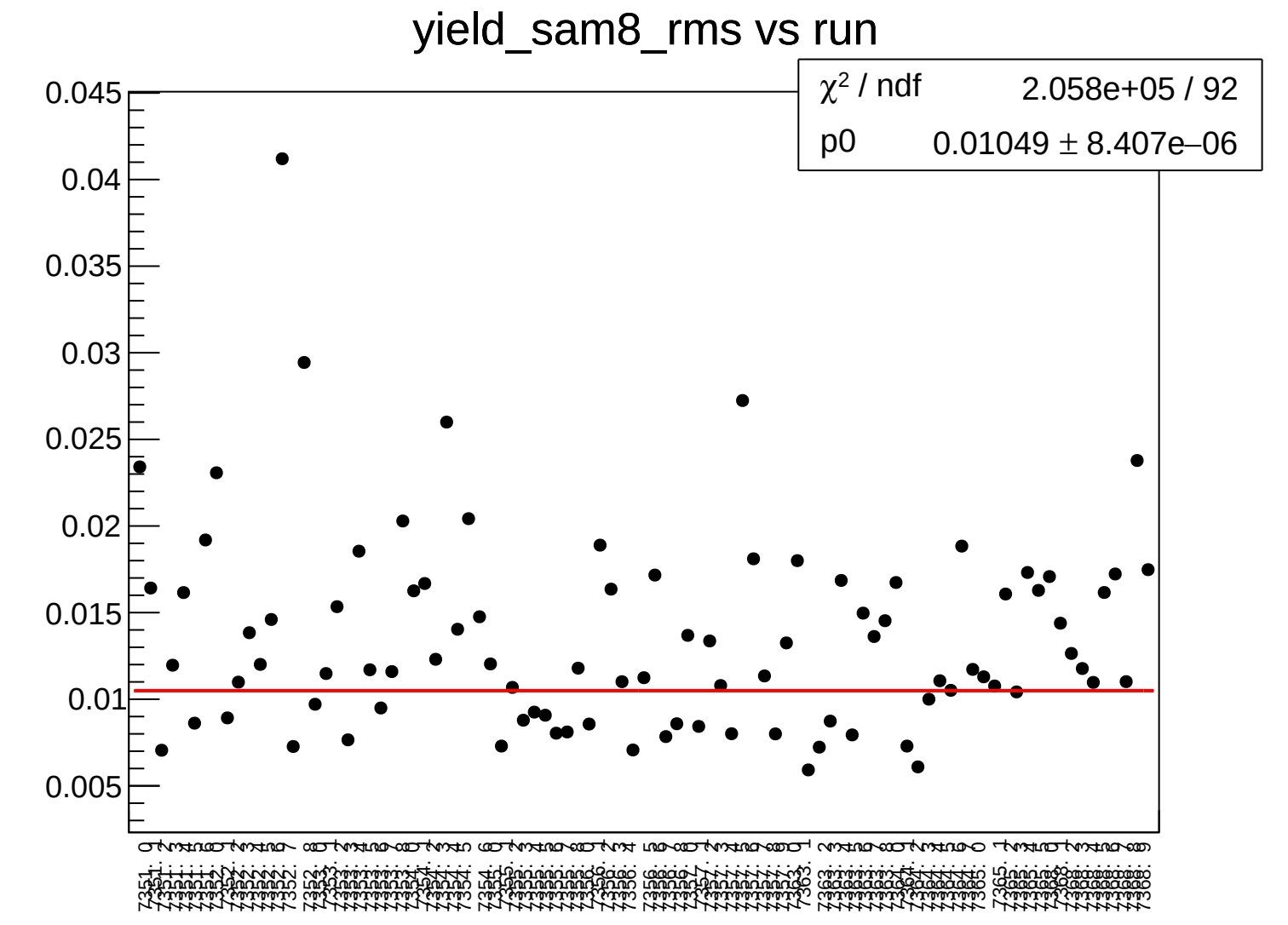

yield_sam7_mean vs run
χ² / ndf 1.25e+07 / 92
p0 2.377 ± 3.097e−06
2.4
2.39
2.38
2.37
2.36
pull
Entries 93
Mean 2071
Std Dev 2044
800
600
400
200
0
−200
−400
−600
−800
−1000

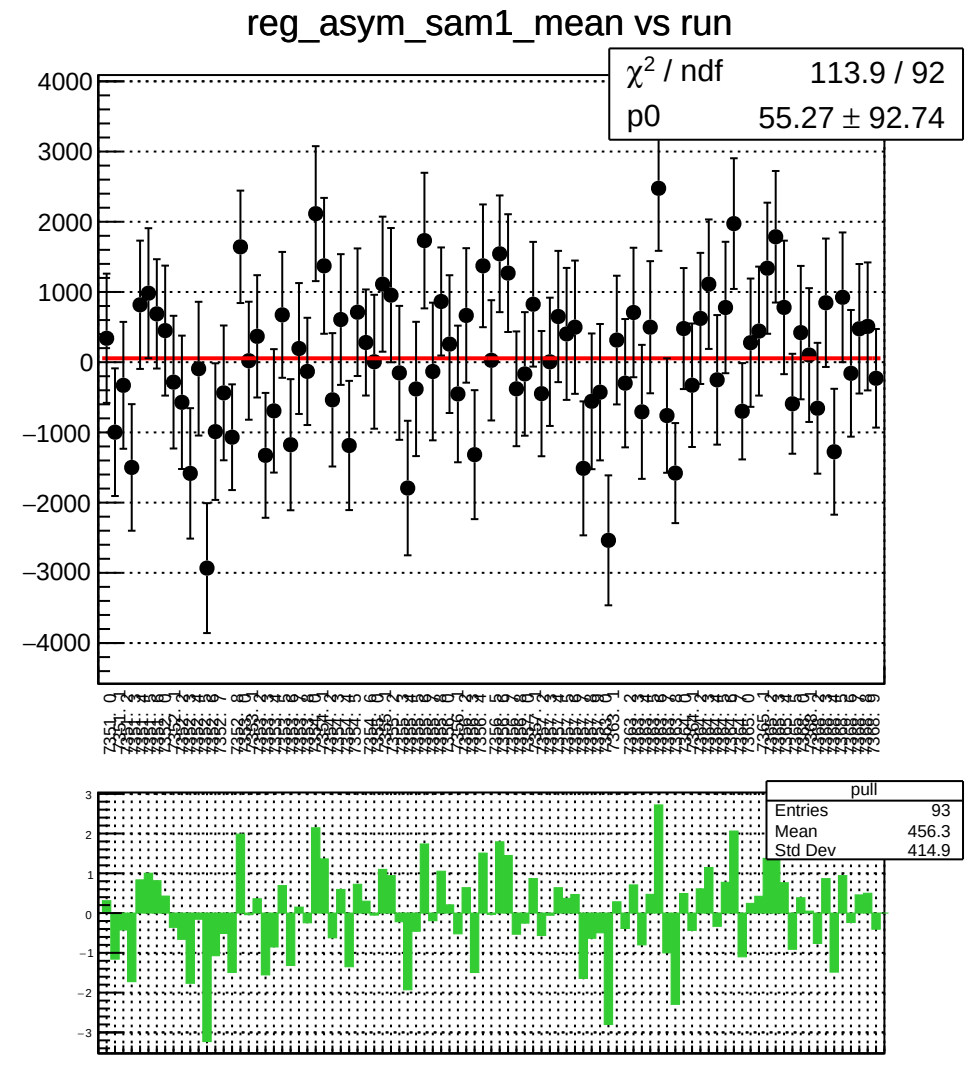

pull1D
Entries 93
Mean −3.523
Std Dev 2.632
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

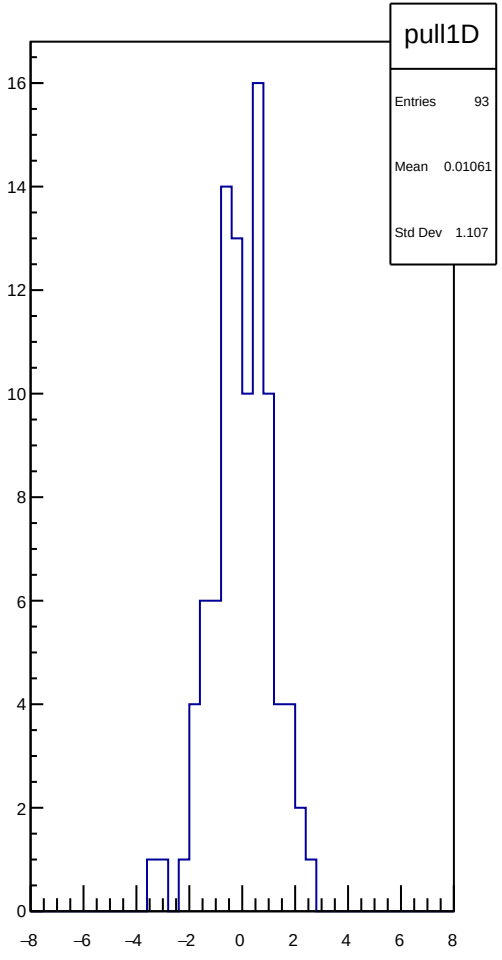

yield_sam7_rms vs run
χ^2 / ndf 1.878e+05 / 92
p0 0.002749 ± 2.19e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

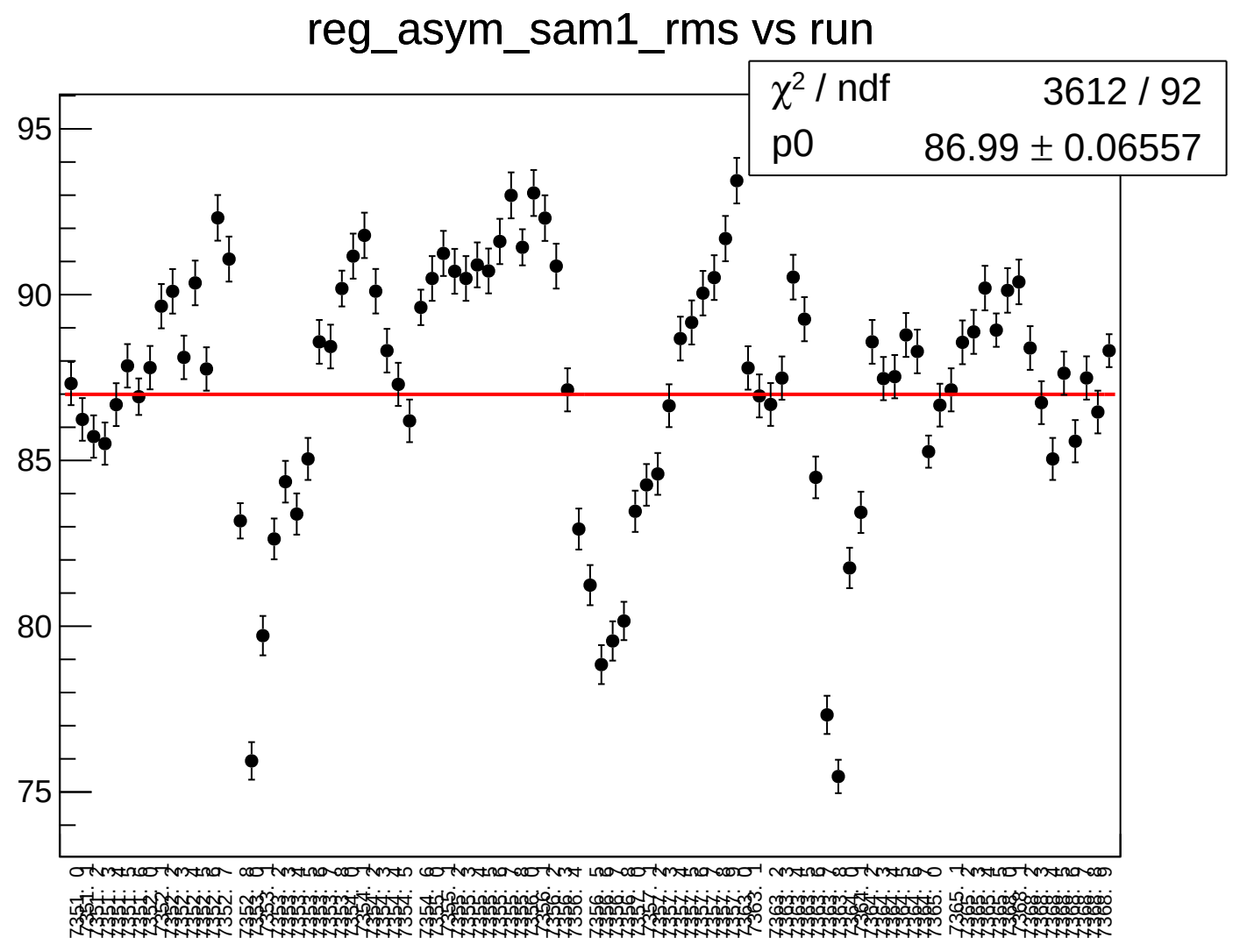

yield_sam8_mean vs run
χ² / ndf 1.637e+07 / 92
p0 8.447 ± 1.189e−05
8.55
8.5
8.45
8.4
8.35
pull
Entries 93
Mean 134.1
Std Dev 105.9
1000
500
0
−500
−1000
−1500

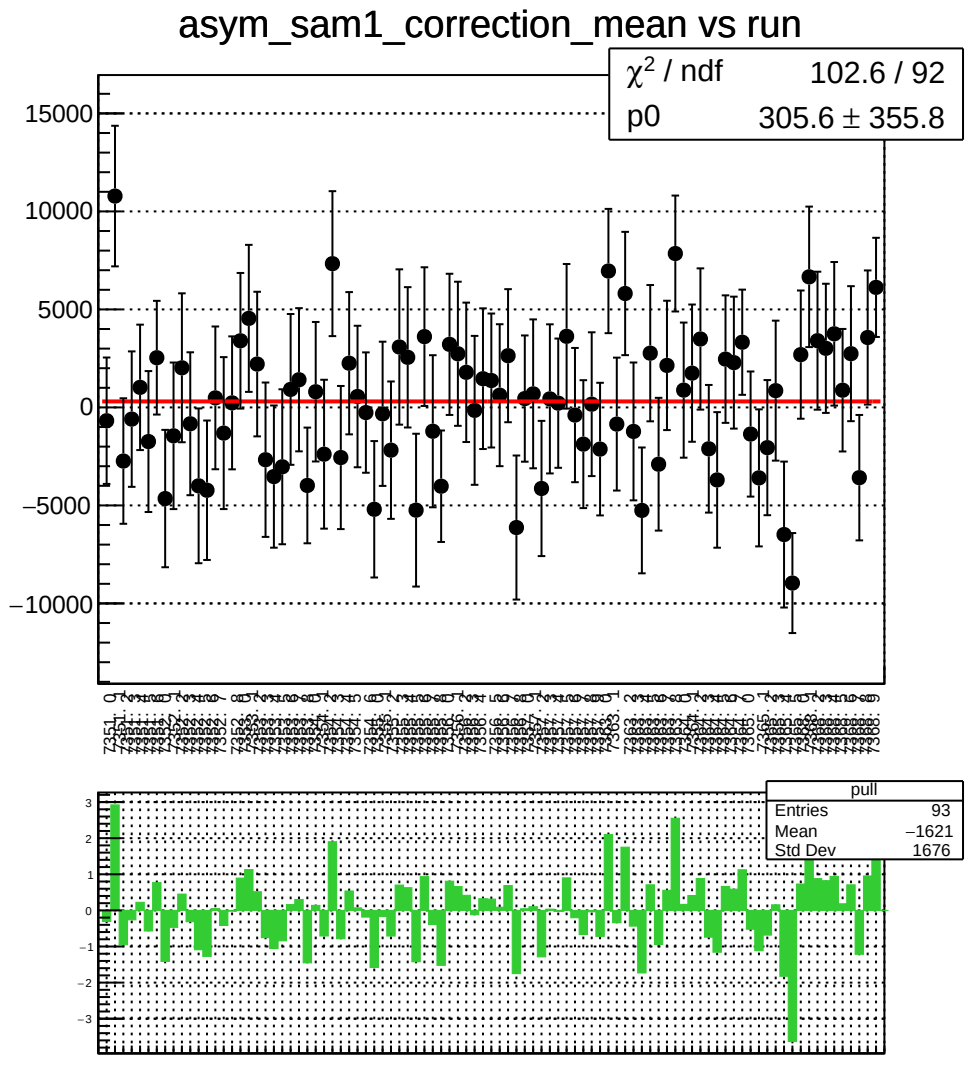

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

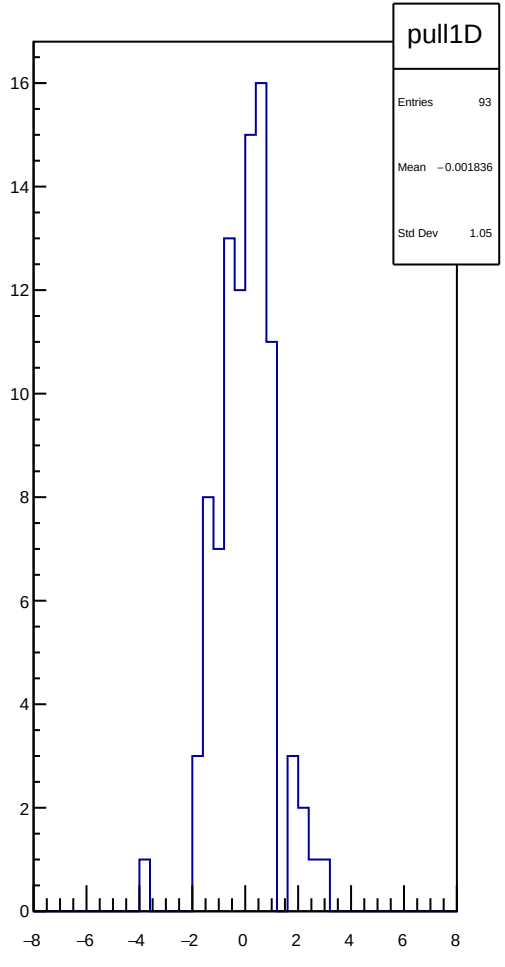

yield_sam8_rms vs run
χ² / ndf 2.058e+05 / 92
p0 0.01049 ± 8.407e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

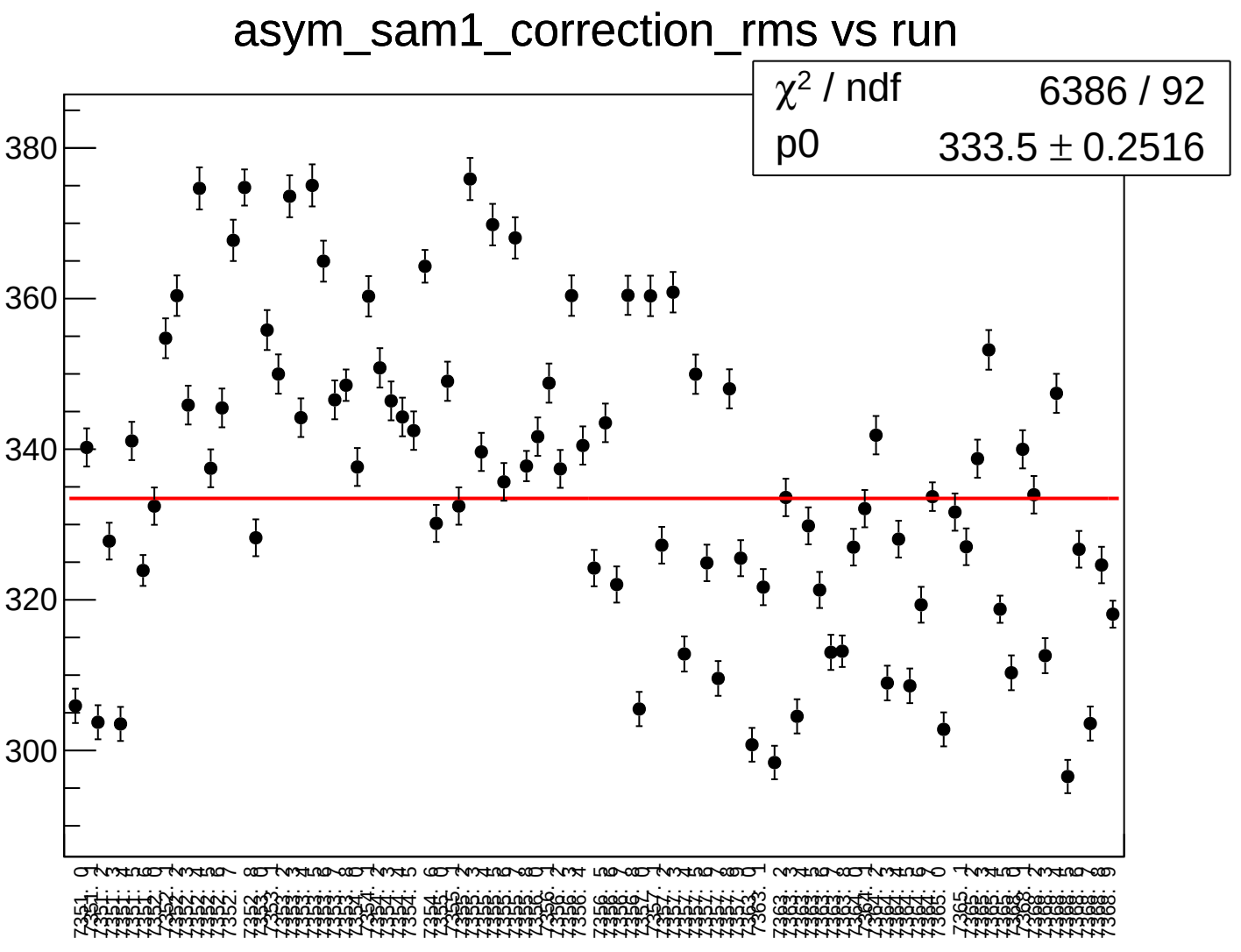

reg_asym_sam1_mean vs run
χ² / ndf 113.9 / 92
p0 55.27 ± 92.74
pull
Entries 93
Mean 456.3
Std Dev 414.9

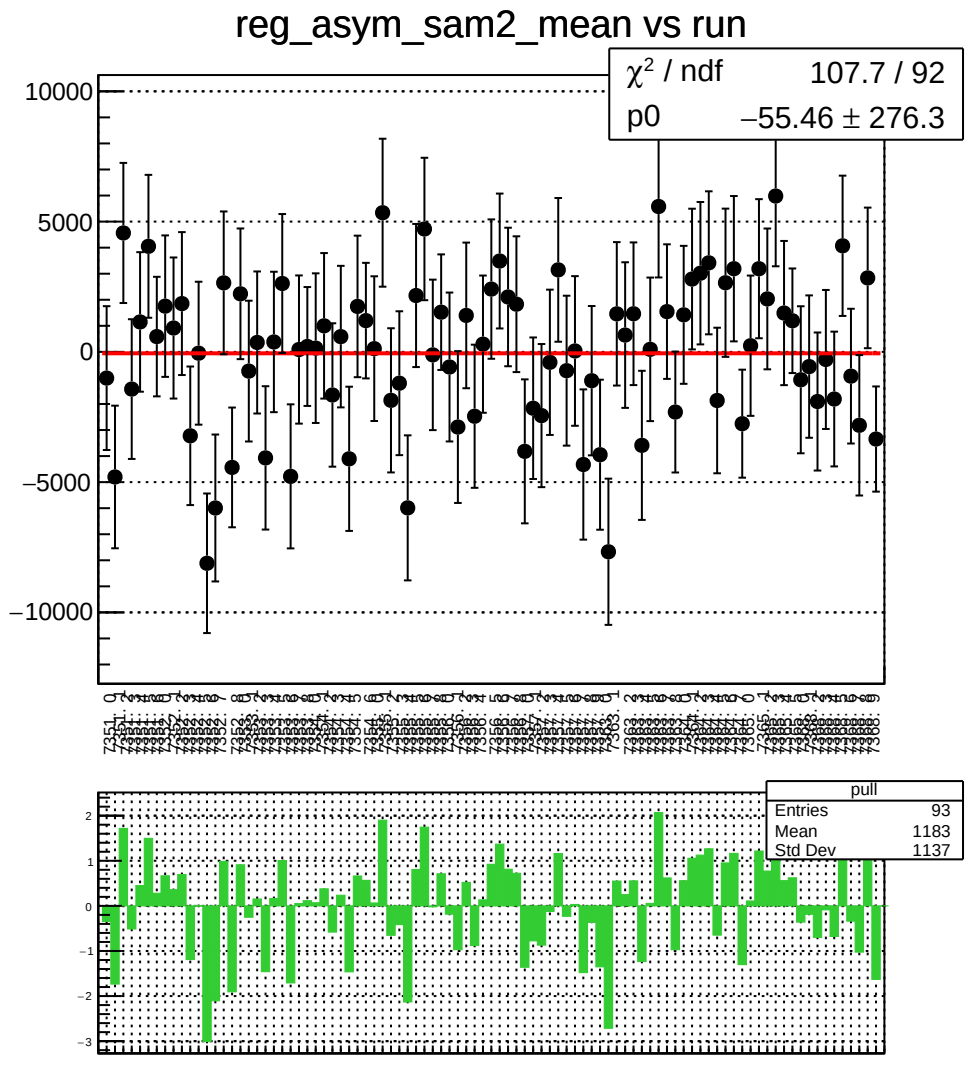

pull1D
Entries 93
Mean 0.01061
Std Dev 1.107

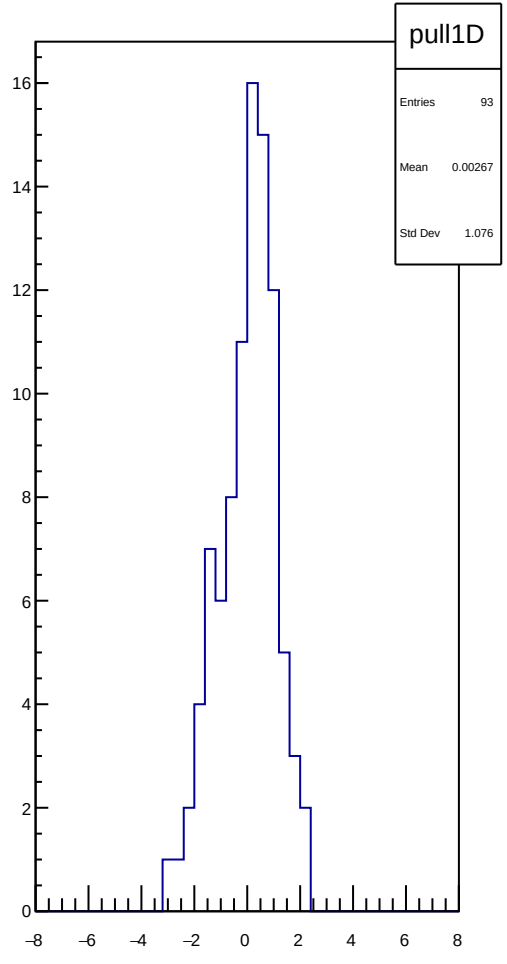

reg_asym_sam1_rms vs run
χ² / ndf 3612 / 92
p0 86.99 ± 0.06557
95
90
85
80
75

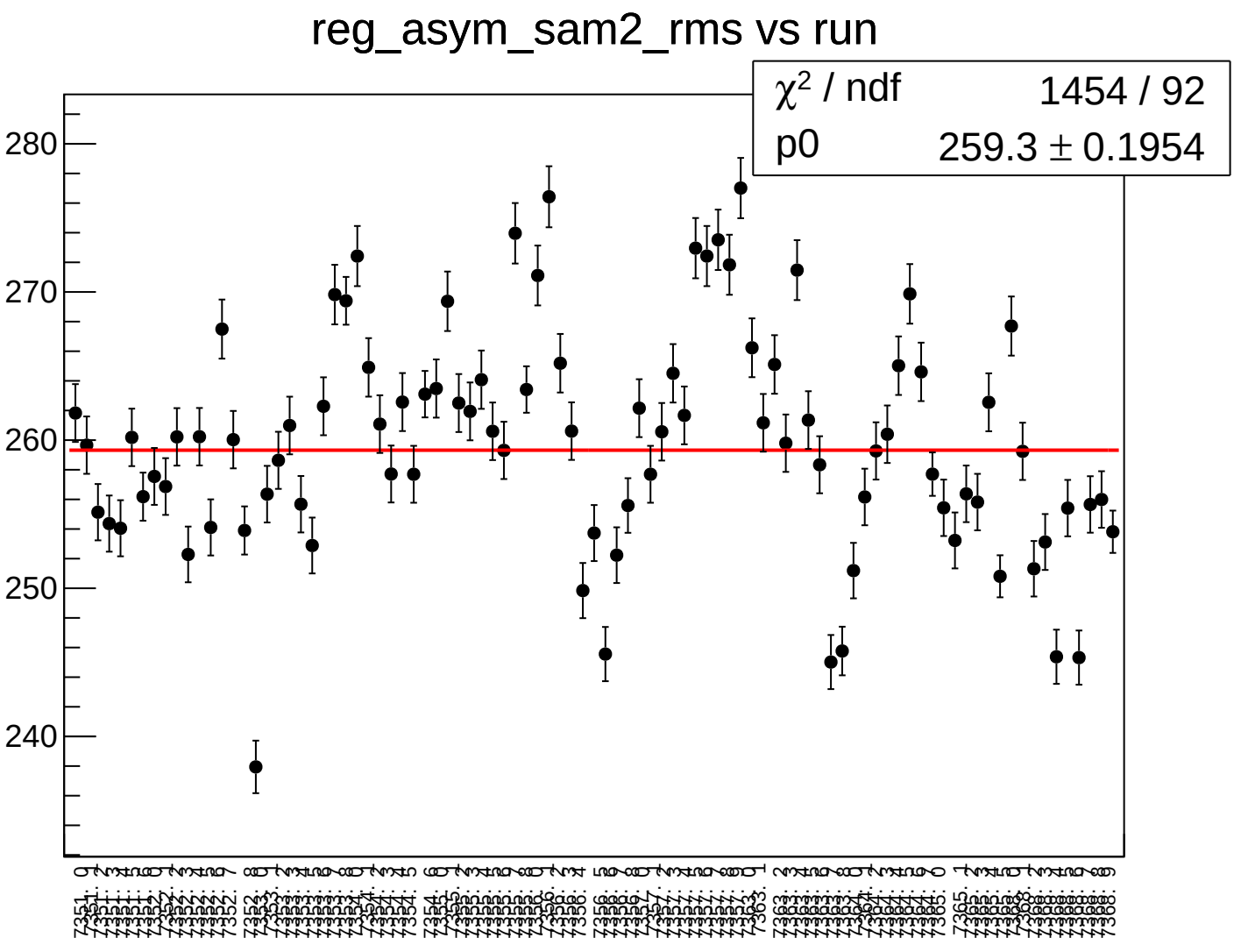

asym_sam1_correction_mean vs run
χ² / ndf 102.6 / 92
p0 305.6 ± 355.8
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −1621
Std Dev 1676
3
2
1
0
−1
−2
−3

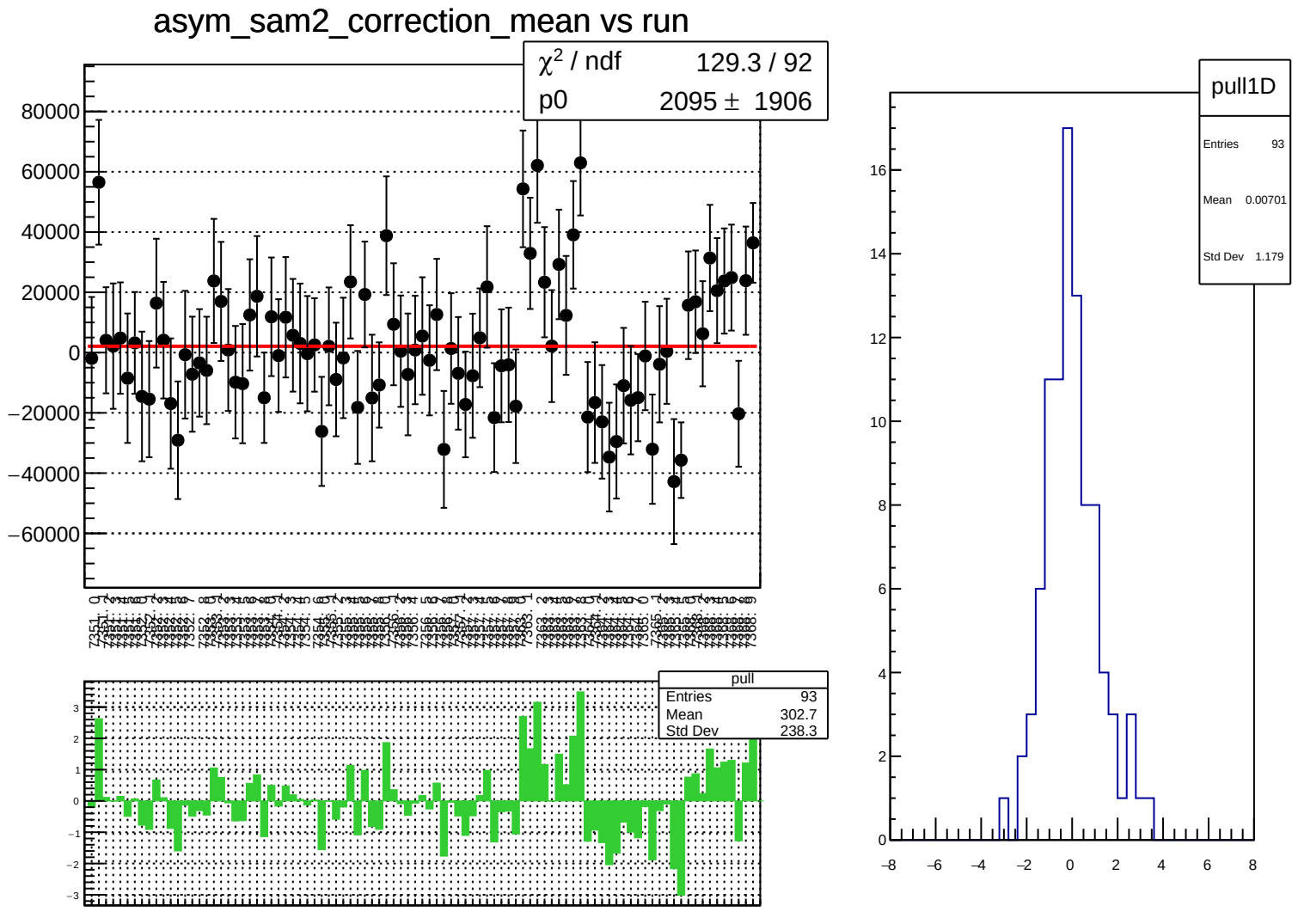

pull1D
Entries 93
Mean −0.001836
Std Dev 1.05
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

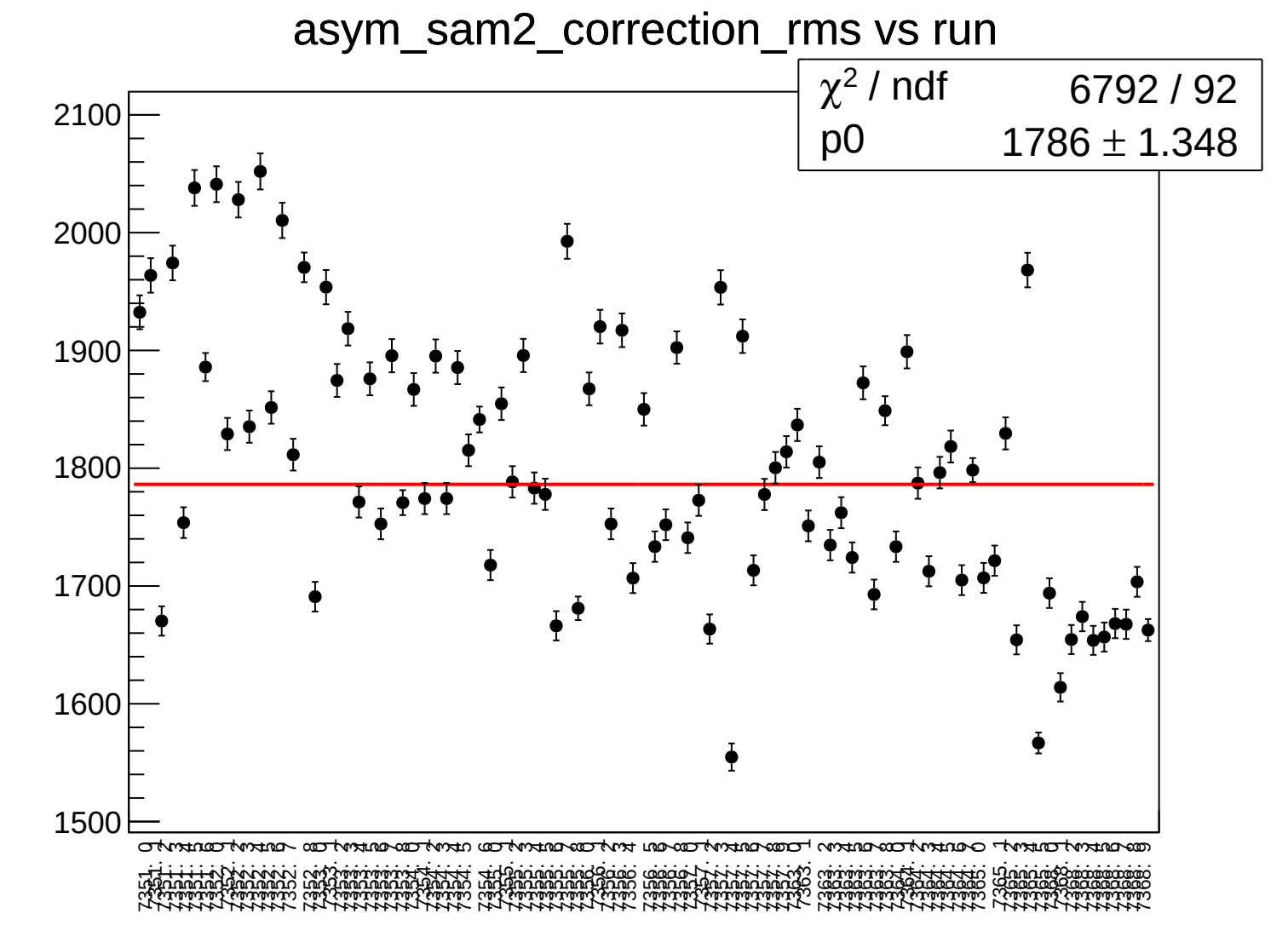

asym_sam1_correction_rms vs run
χ² / ndf 6386 / 92
p0 333.5 ± 0.2516
380
360
340
320
300

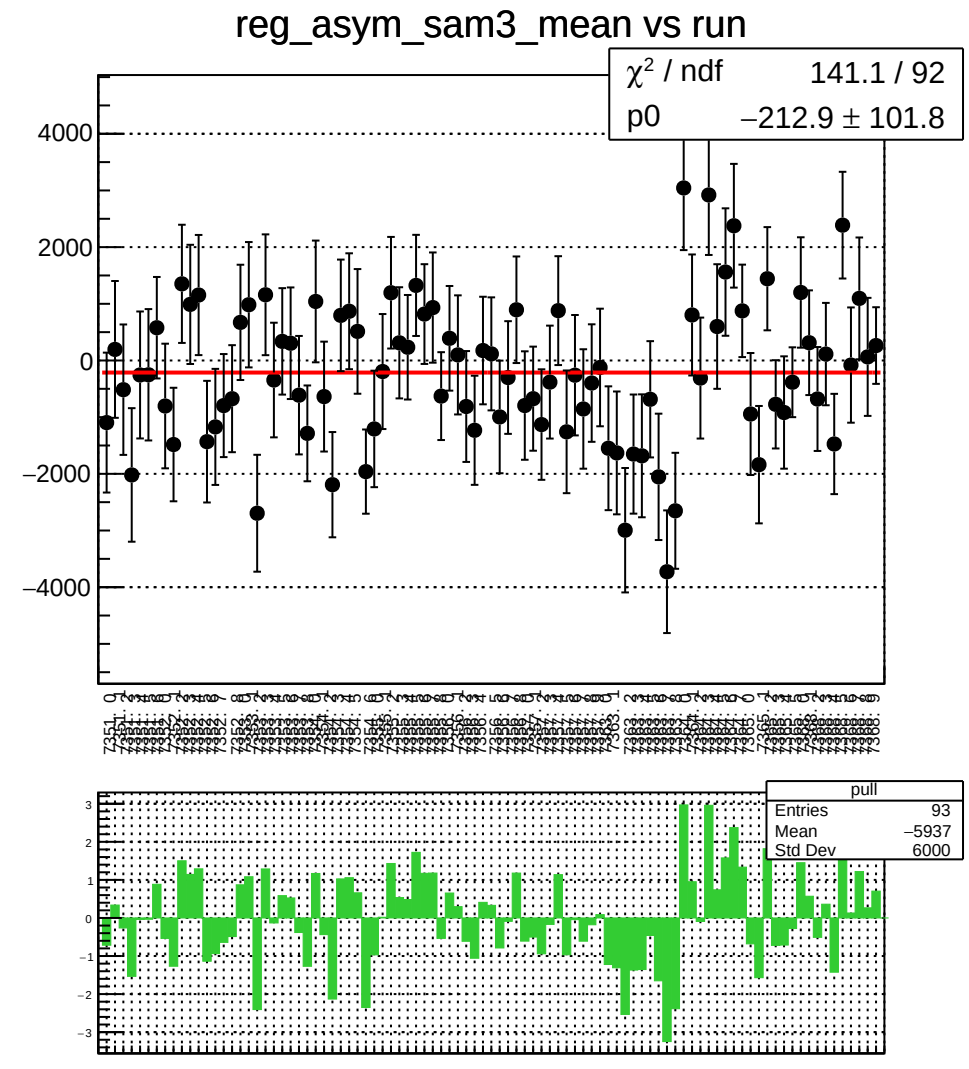

reg_asym_sam2_mean vs run
χ² / ndf 107.7 / 92
p0 −55.46 ± 276.3
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 1183
Std Dev 1137
2
1
0
−1
−2
−3

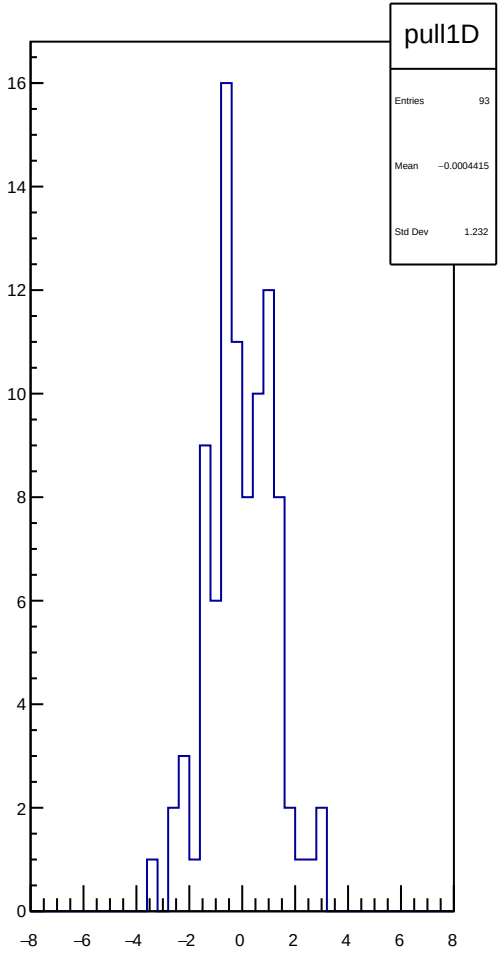

pull1D
Entries 93
Mean 0.00267
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

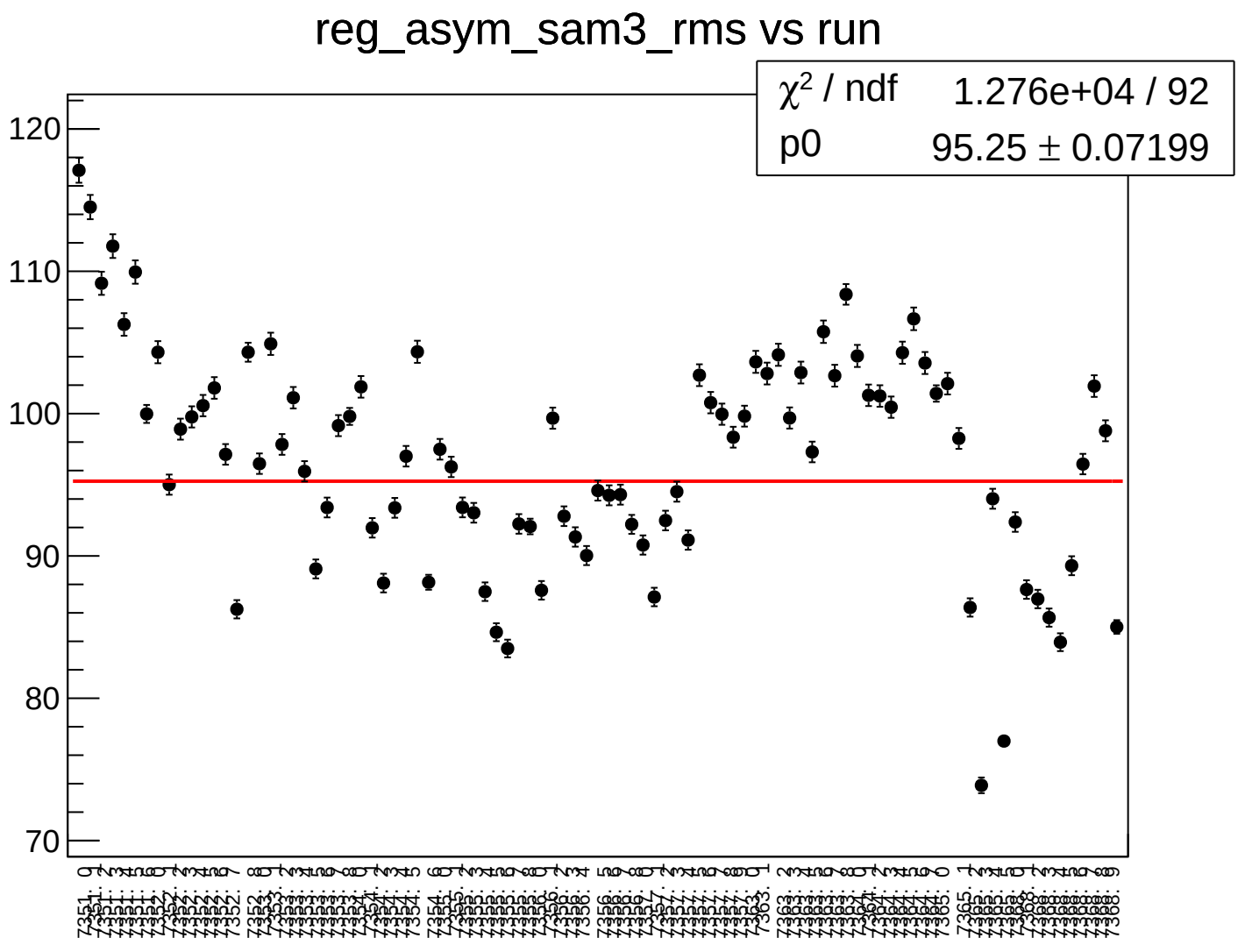

reg_asym_sam2_rms vs run
χ^2 / ndf 1454 / 92
p0 259.3 ± 0.1954
280
270
260
250
240

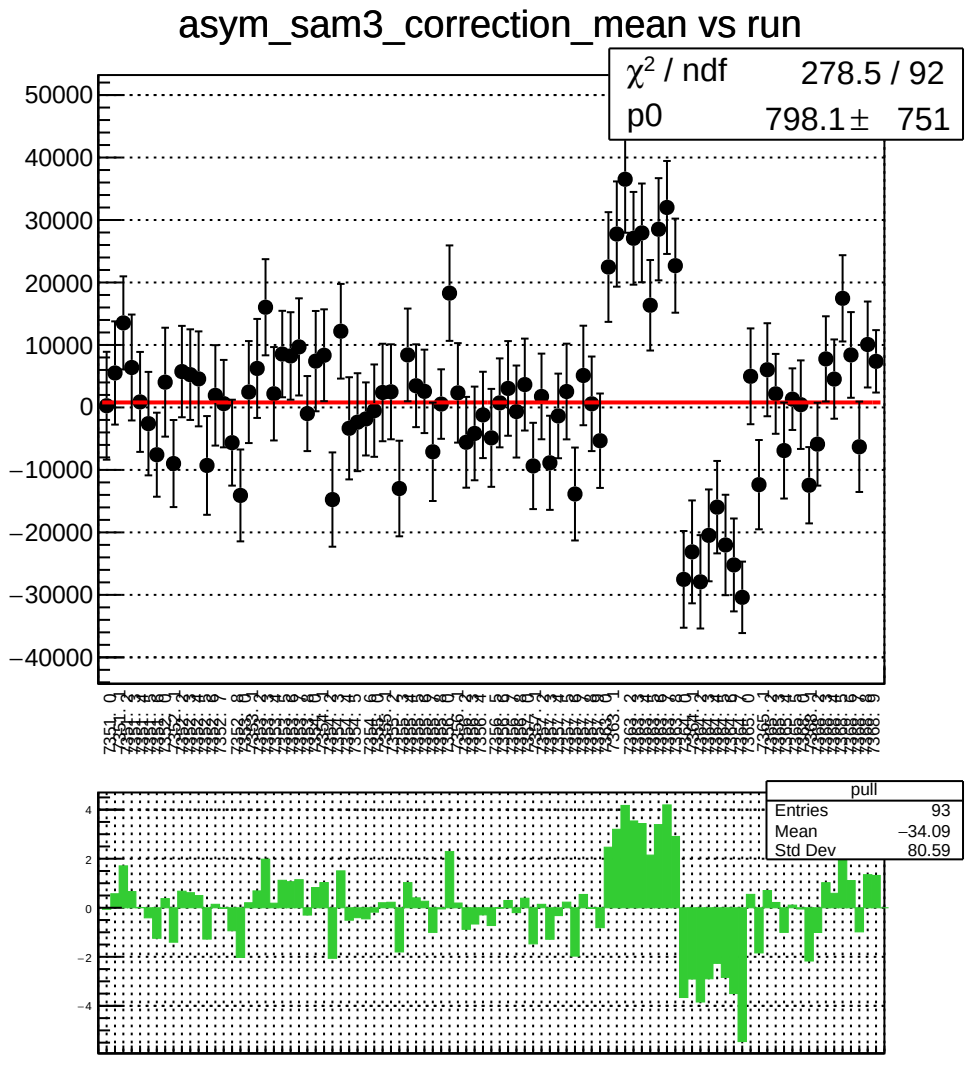

asym_sam2_correction_mean vs run
χ² / ndf 129.3 / 92
p0 2095 ± 1906
80000
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 302.7
Std Dev 238.3
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.00701
Std Dev 1.179
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

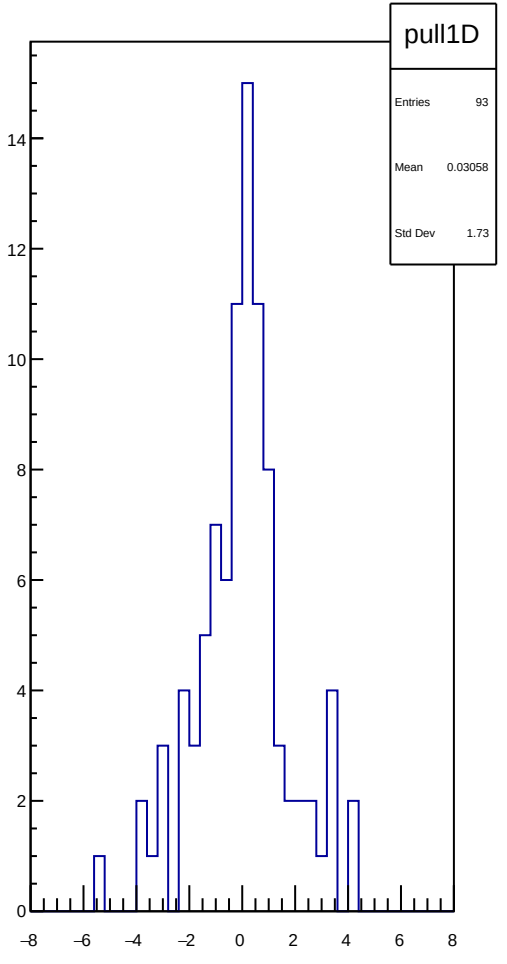

asym_sam2_correction_rms vs run
χ² / ndf 6792 / 92
p0 1786 ± 1.348
2100
2000
1900
1800
1700
1600
1500

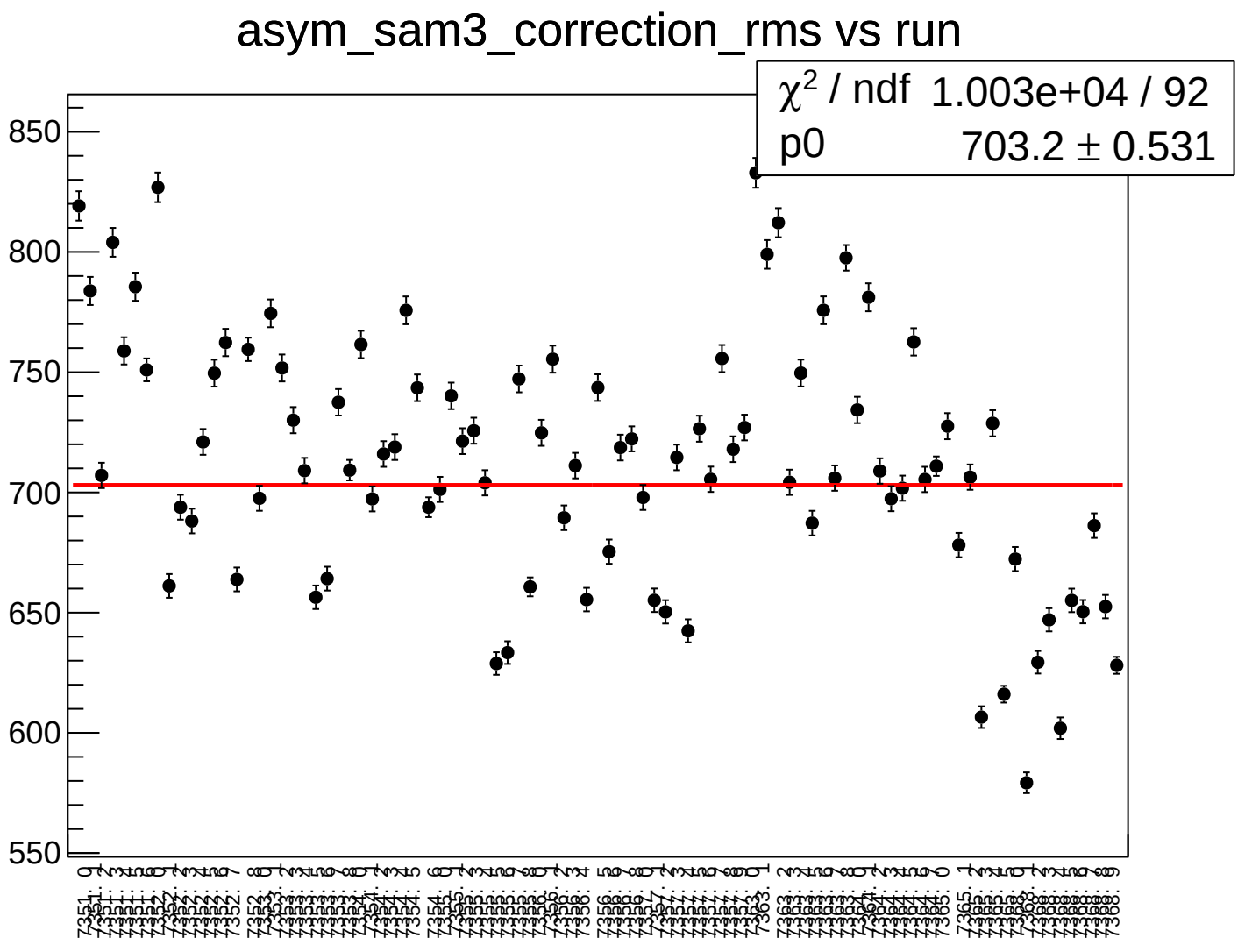

reg_asym_sam3_mean vs run
χ² / ndf 141.1 / 92
p0 −212.9 ± 101.8
4000
2000
0
−2000
−4000
pull
Entries 93
Mean −5937
Std Dev 6000
3
2
1
0
−1
−2
−3

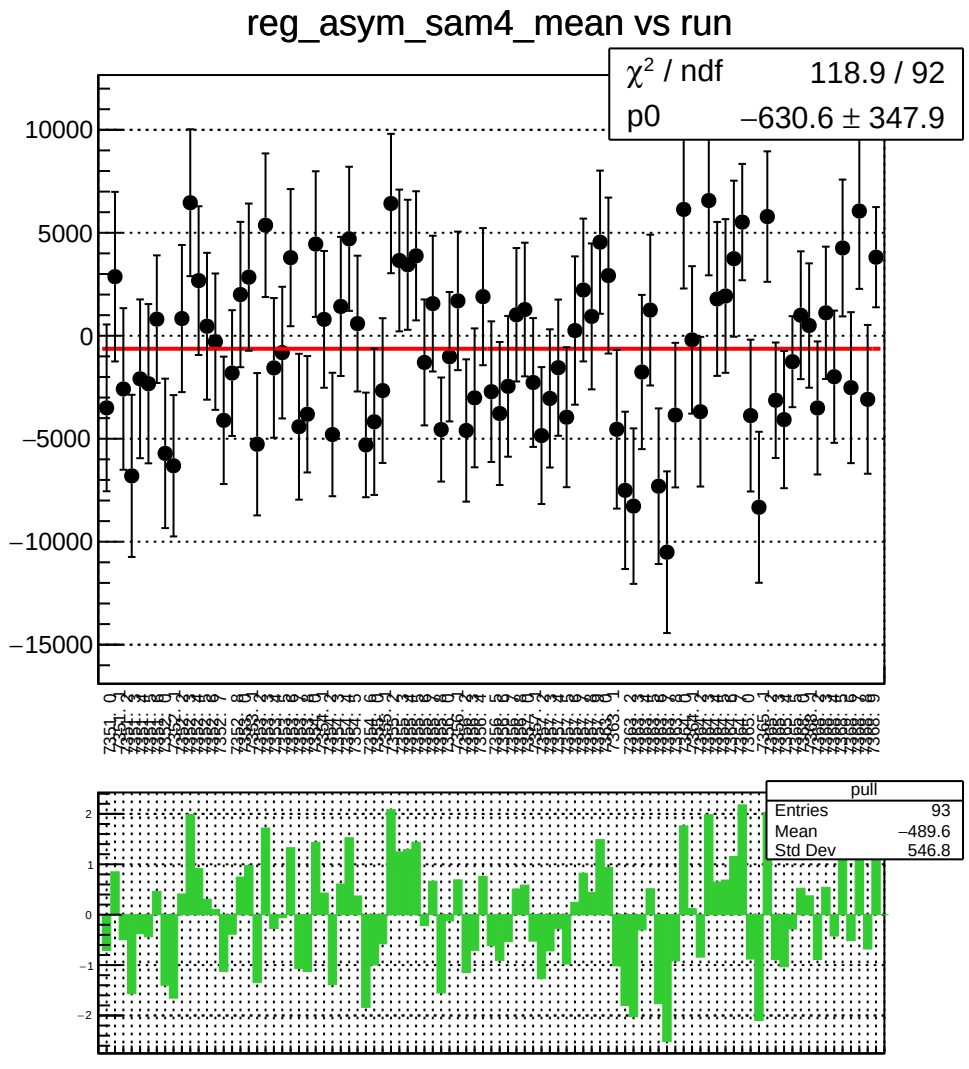

pull1D
Entries 93
Mean −0.0004415
Std Dev 1.232
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

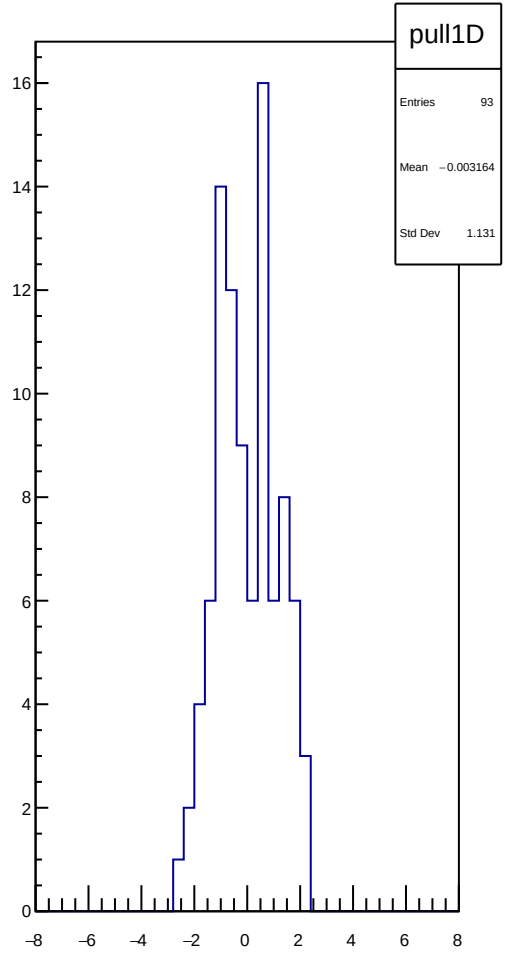

reg_asym_sam3_rms vs run
χ^2 / ndf 1.276e+04 / 92
p0 95.25 ± 0.07199
120
110
100
90
80
70

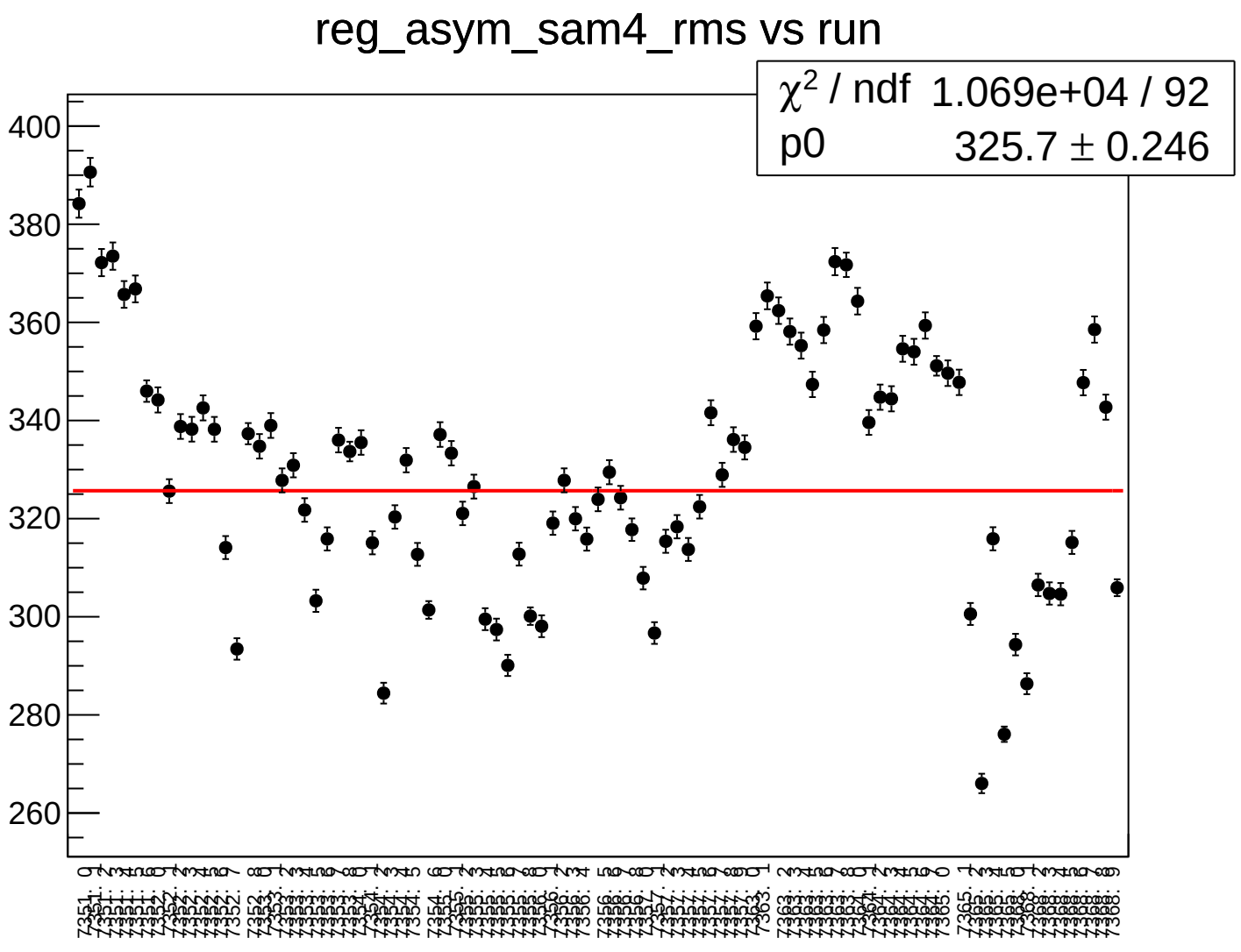

asym_sam3_correction_mean vs run
χ² / ndf 278.5 / 92
p0 798.1 ± 751
pull
Entries 93
Mean −34.09
Std Dev 80.59

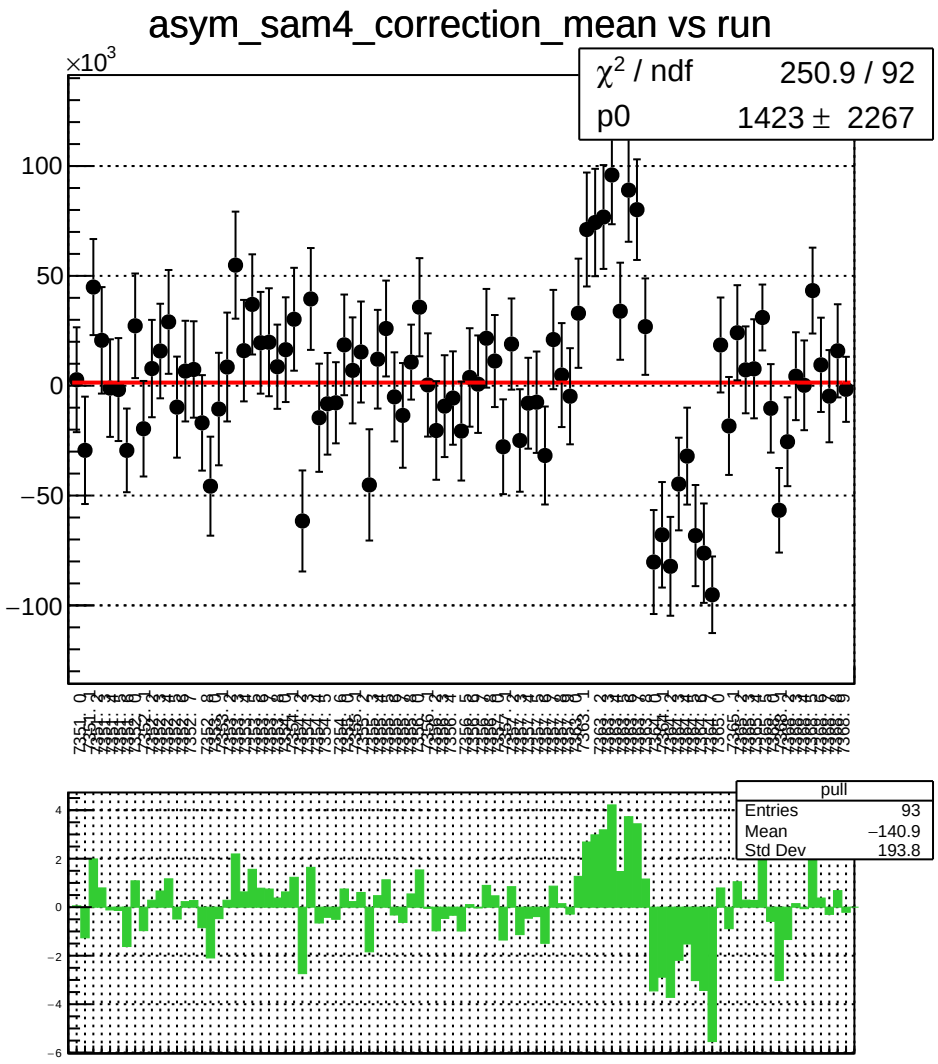

pull1D
Entries 93
Mean 0.03058
Std Dev 1.73

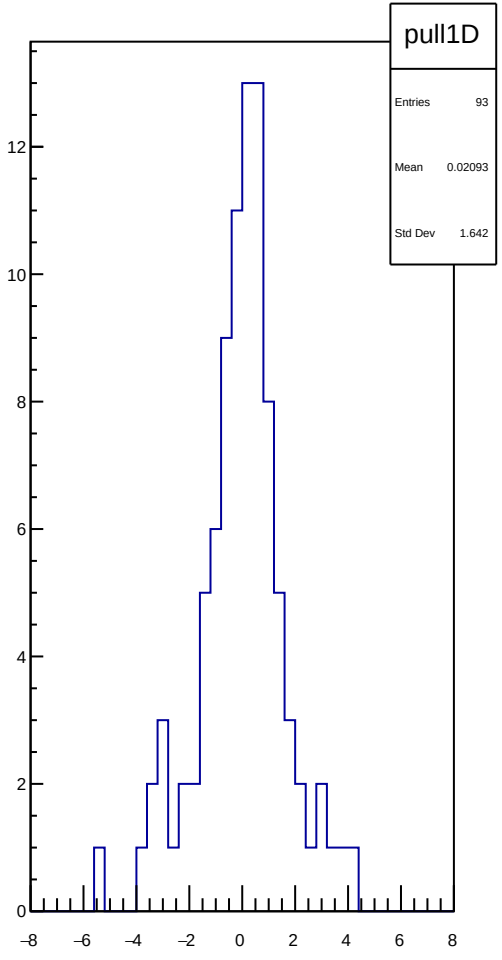

asym_sam3_correction_rms vs run
χ² / ndf 1.003e+04 / 92
p0 703.2 ± 0.531
850
800
750
700
650
600
550

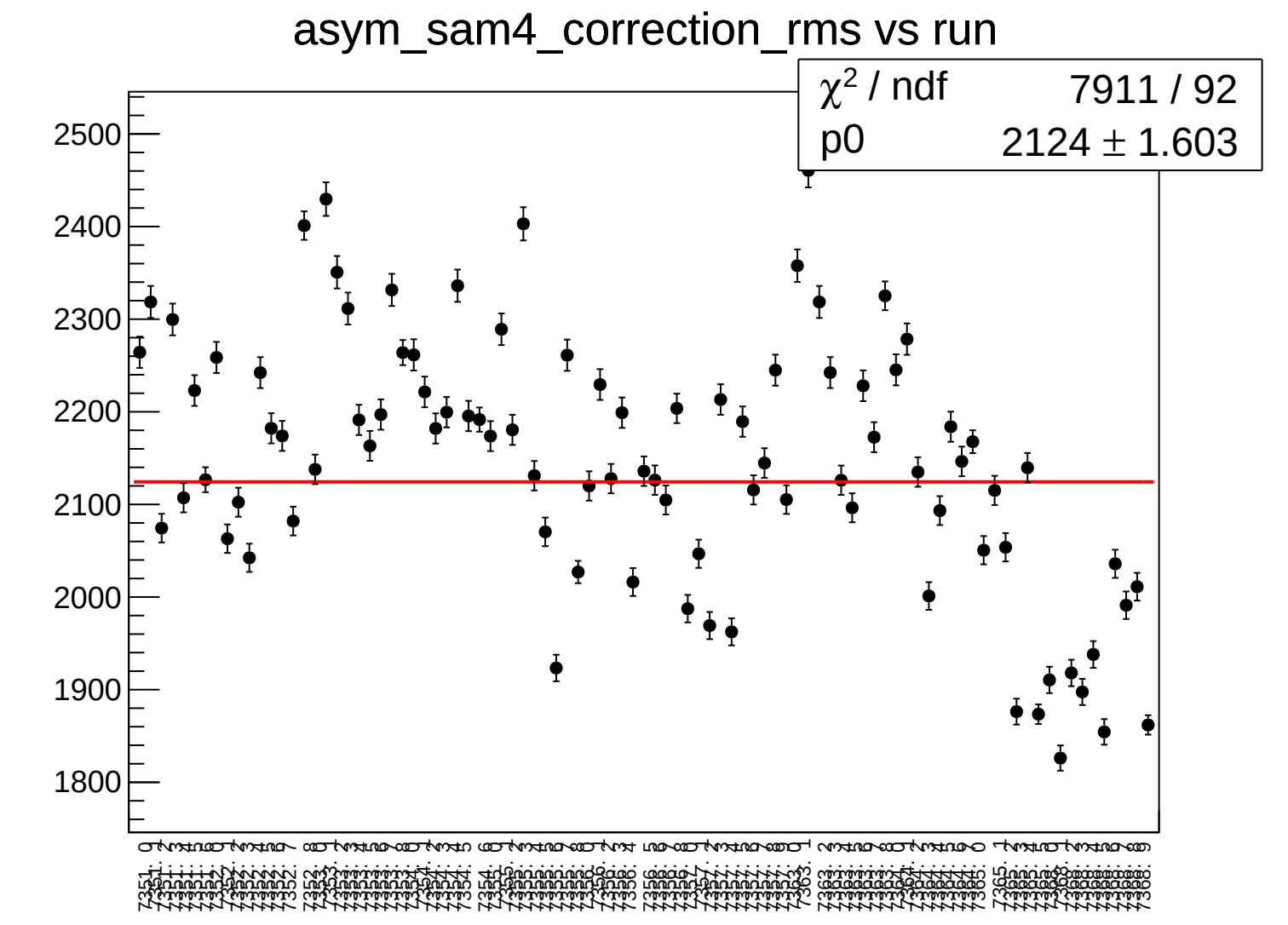

reg_asym_sam4_mean vs run
χ² / ndf 118.9 / 92
p0 −630.6 ± 347.9
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −489.6
Std Dev 546.8
2
1
0
−1
−2

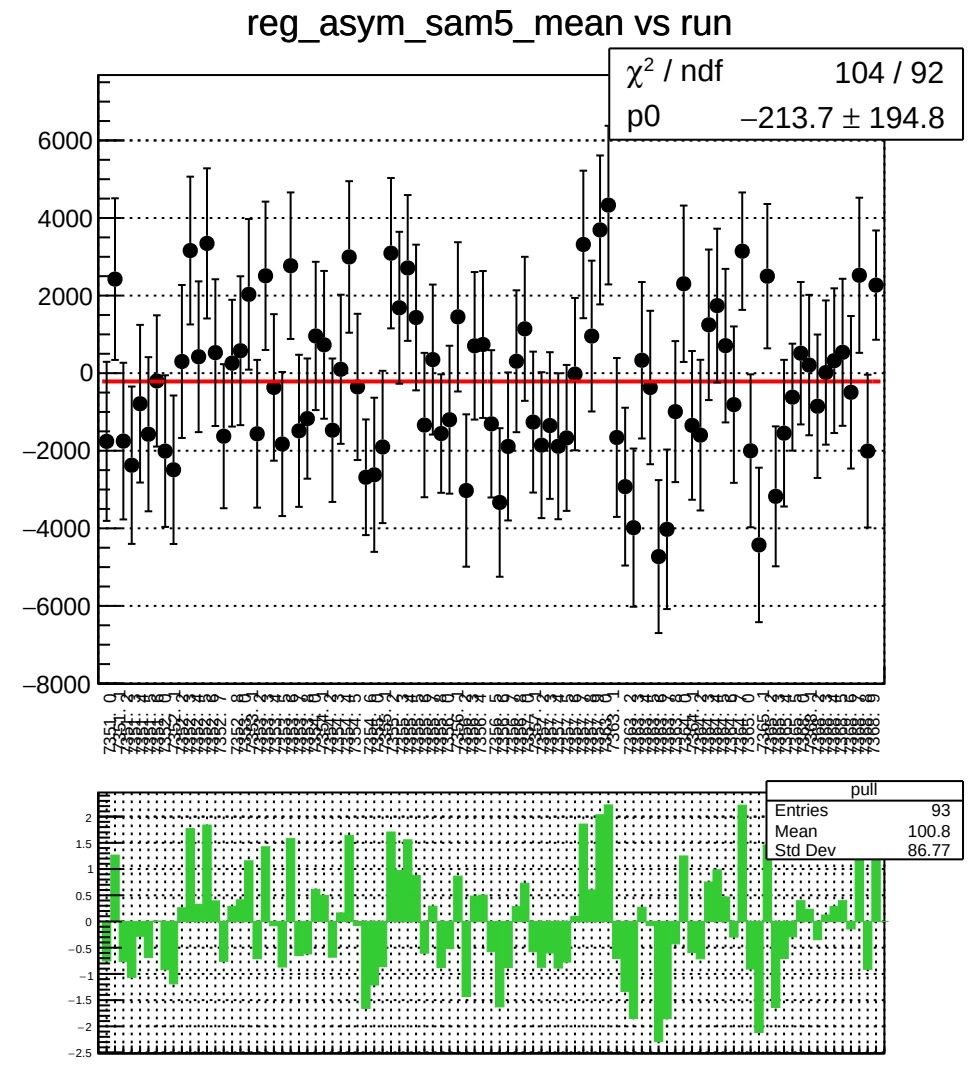

pull1D
Entries 93
Mean −0.003164
Std Dev 1.131
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

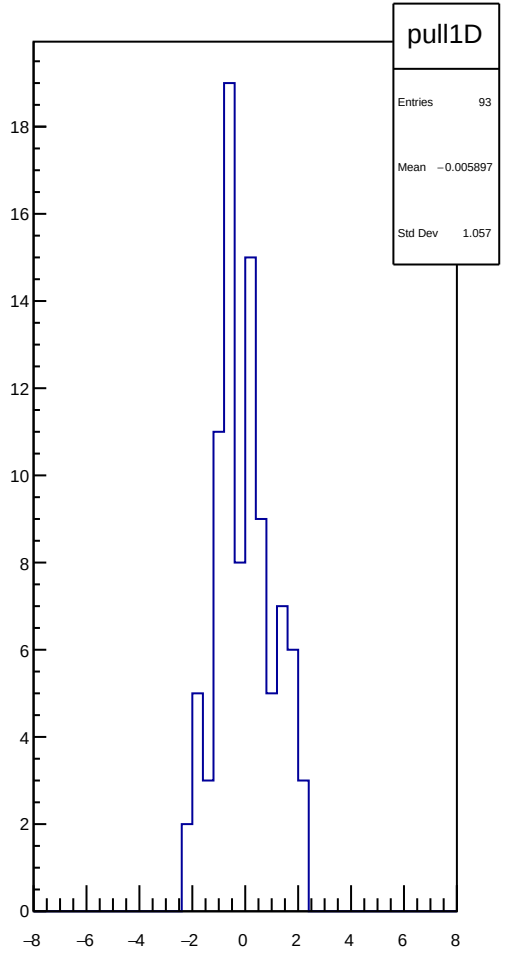

reg_asym_sam4_rms vs run
χ^2 / ndf 1.069e+04 / 92
p0 325.7 ± 0.246
400
380
360
340
320
300
280
260

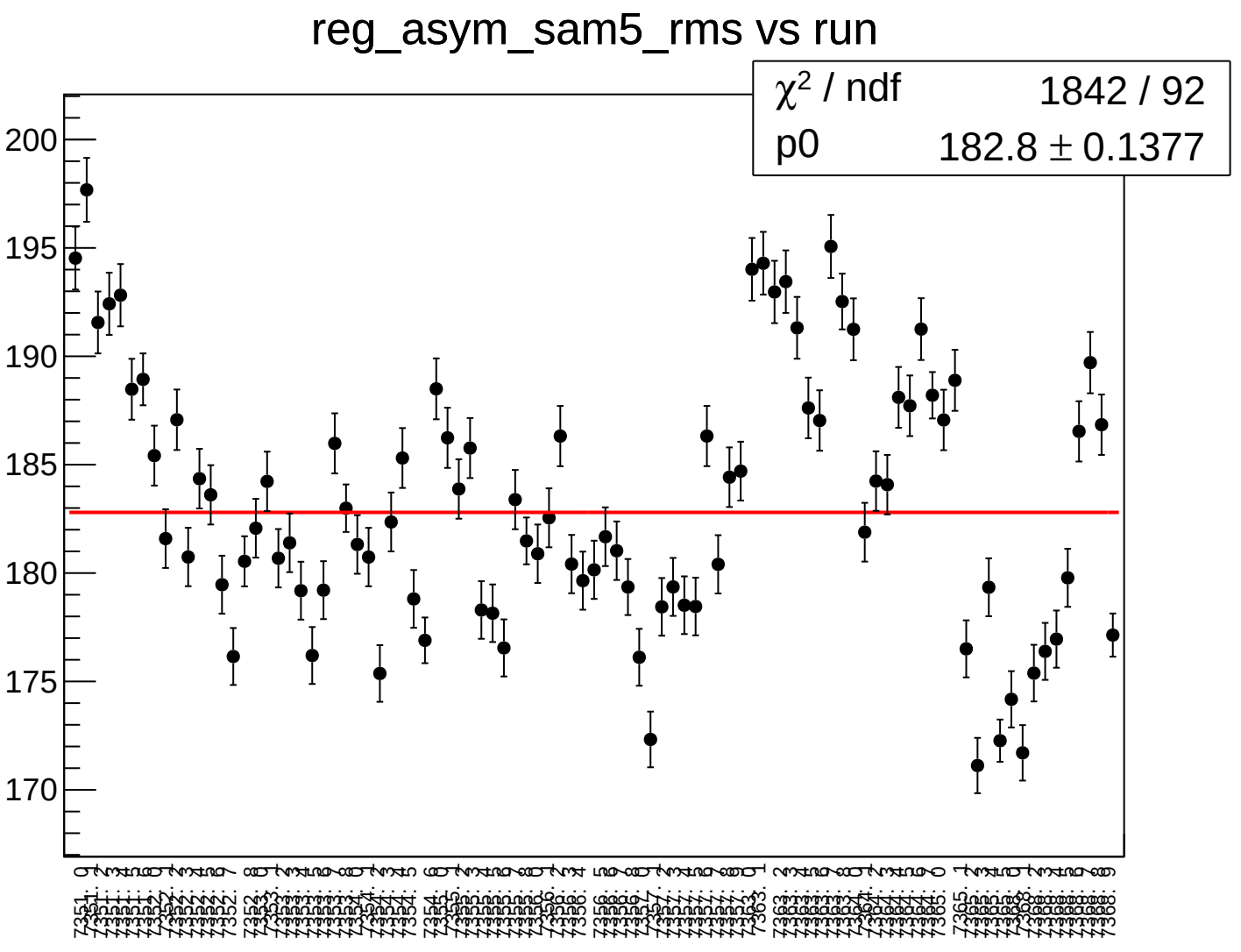

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 250.9 / 92
p0 1423 ± 2267
100
50
0
−50
−100
pull
Entries 93
Mean −140.9
Std Dev 193.8
4
2
0
−2
−4
−6

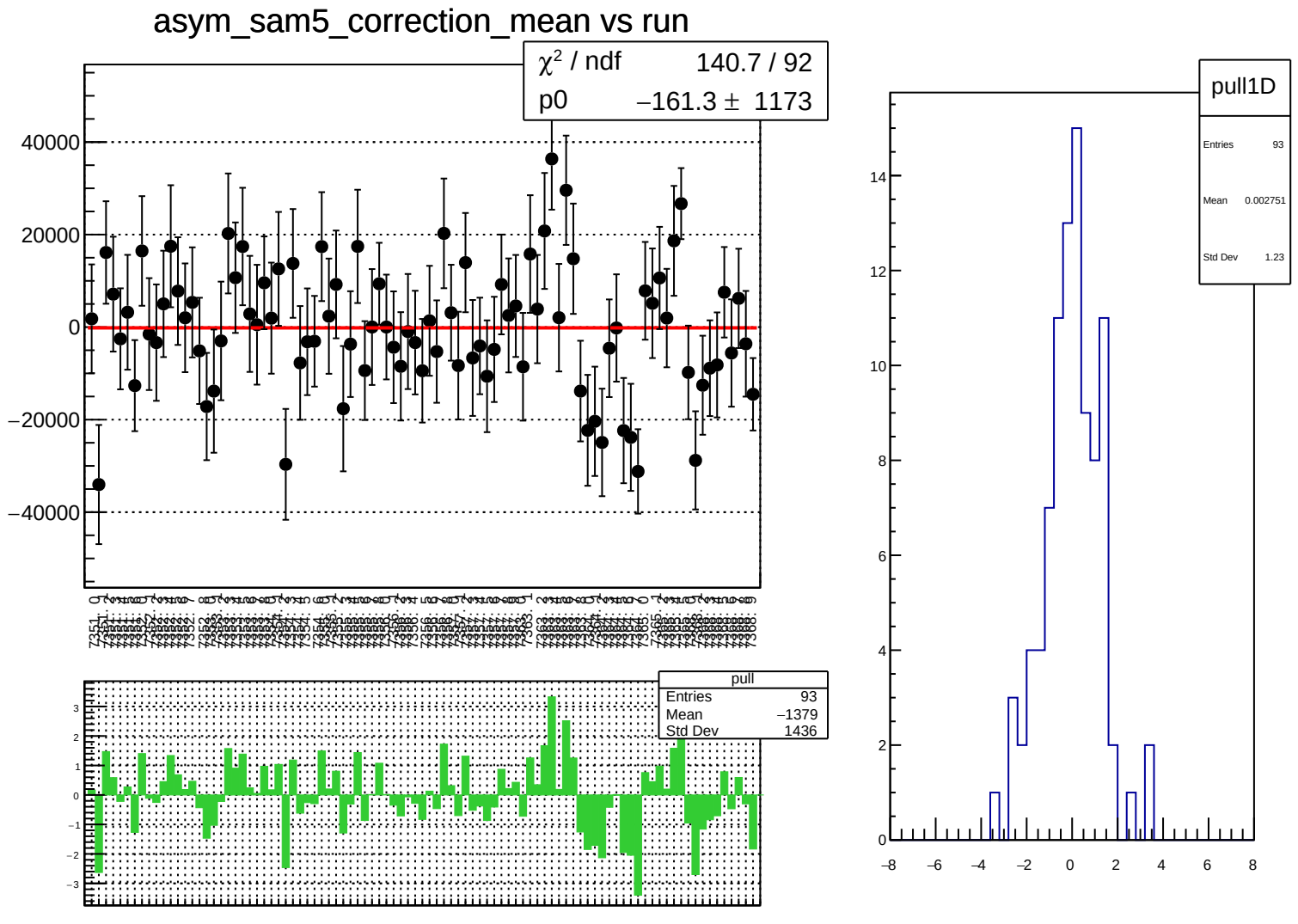

pull1D
Entries 93
Mean 0.02093
Std Dev 1.642
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

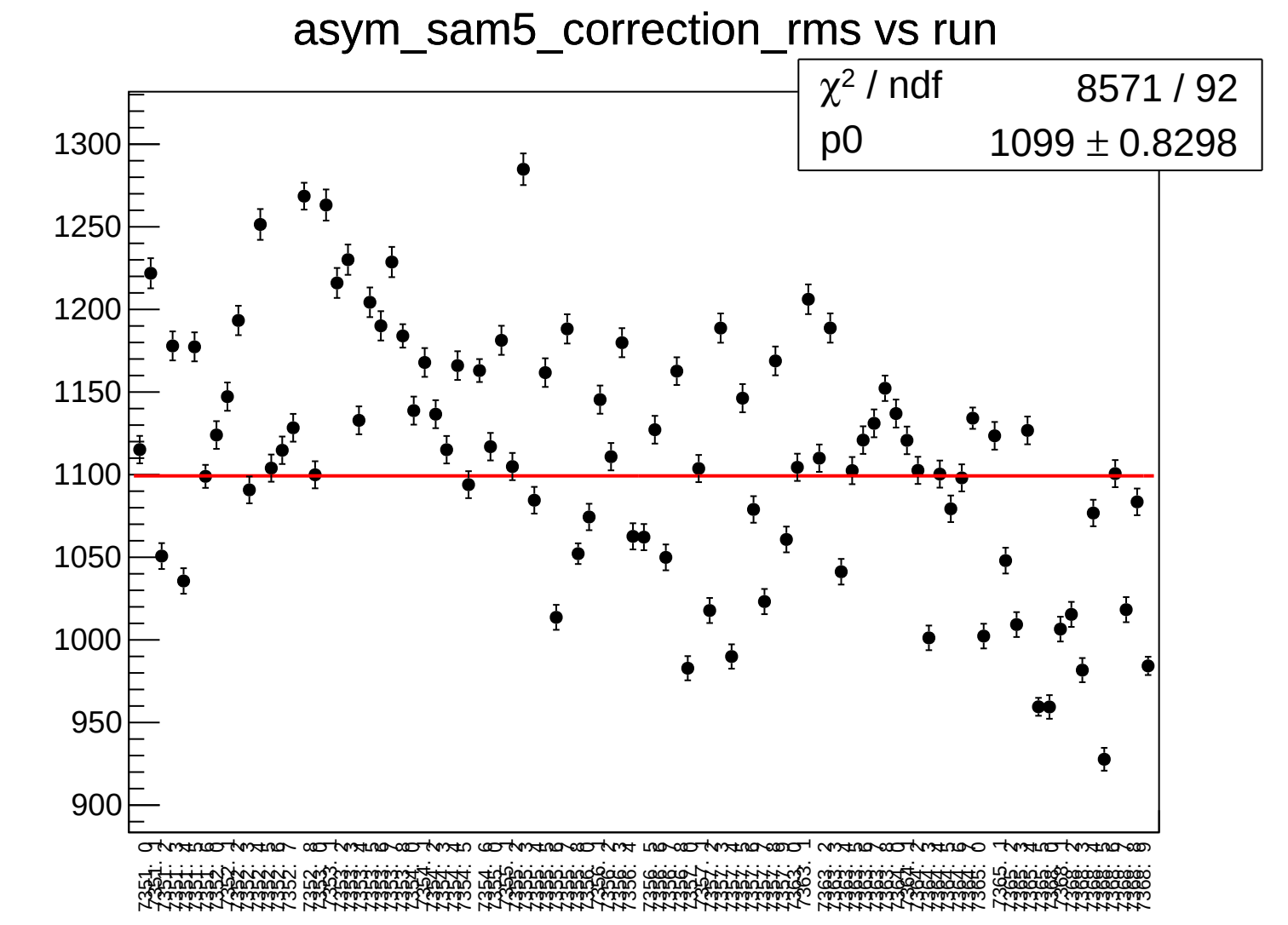

asym_sam4_correction_rms vs run
χ² / ndf 7911 / 92
p0 2124 ± 1.603
2500
2400
2300
2200
2100
2000
1900
1800

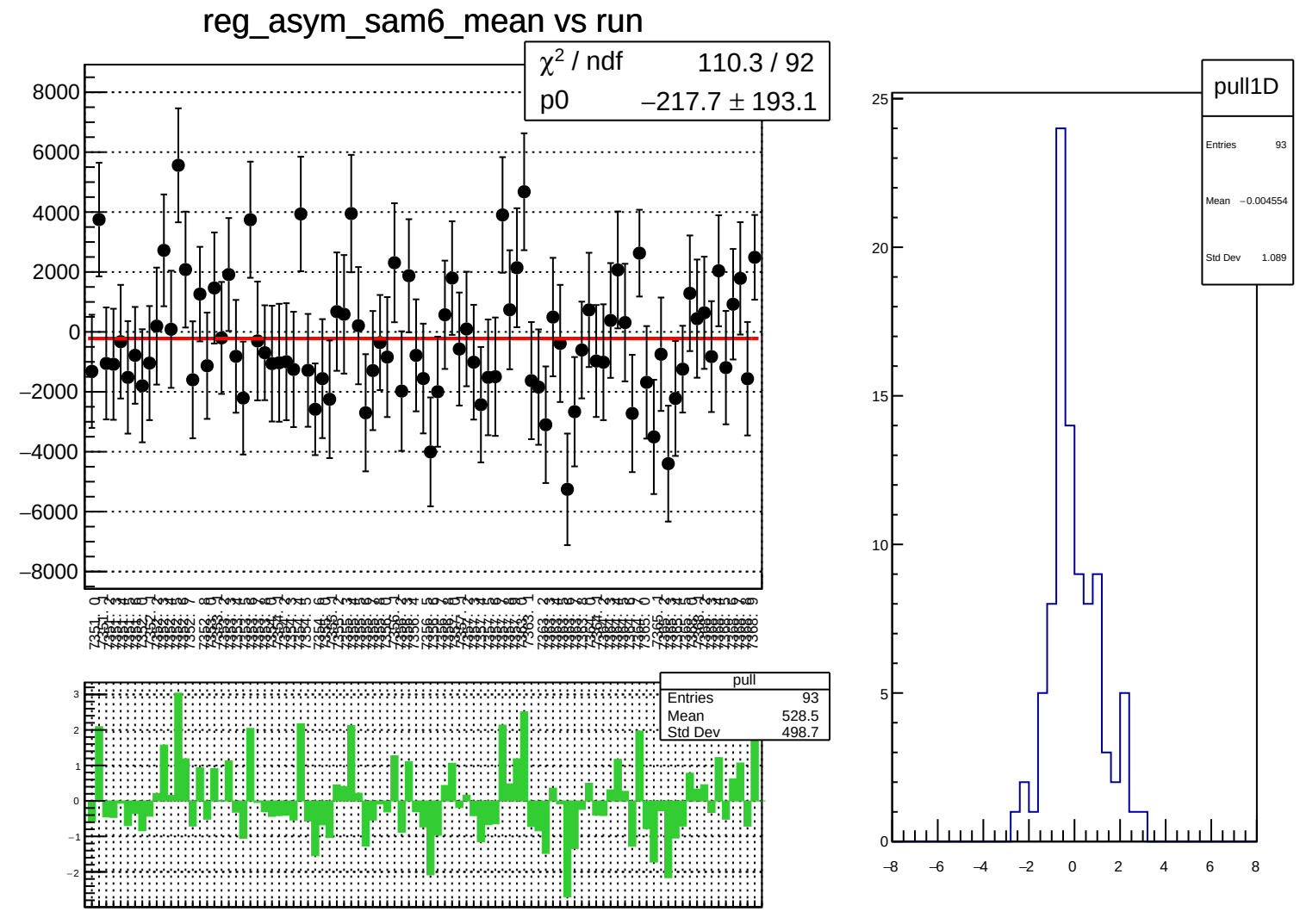

reg_asym_sam5_mean vs run
χ² / ndf 104 / 92
p0 −213.7 ± 194.8
pull
Entries 93
Mean 100.8
Std Dev 86.77

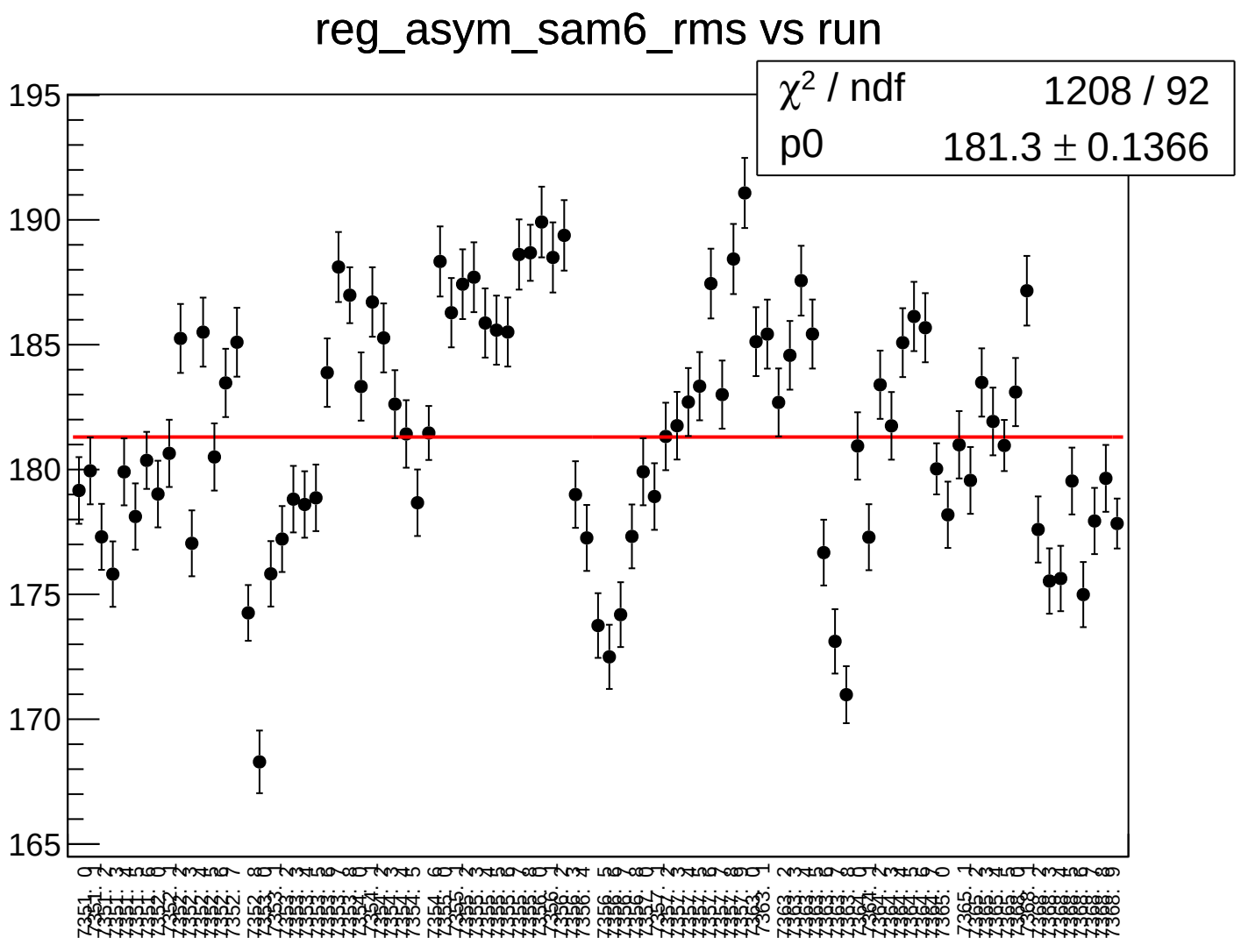

pull1D
Entries 93
Mean −0.005897
Std Dev 1.057

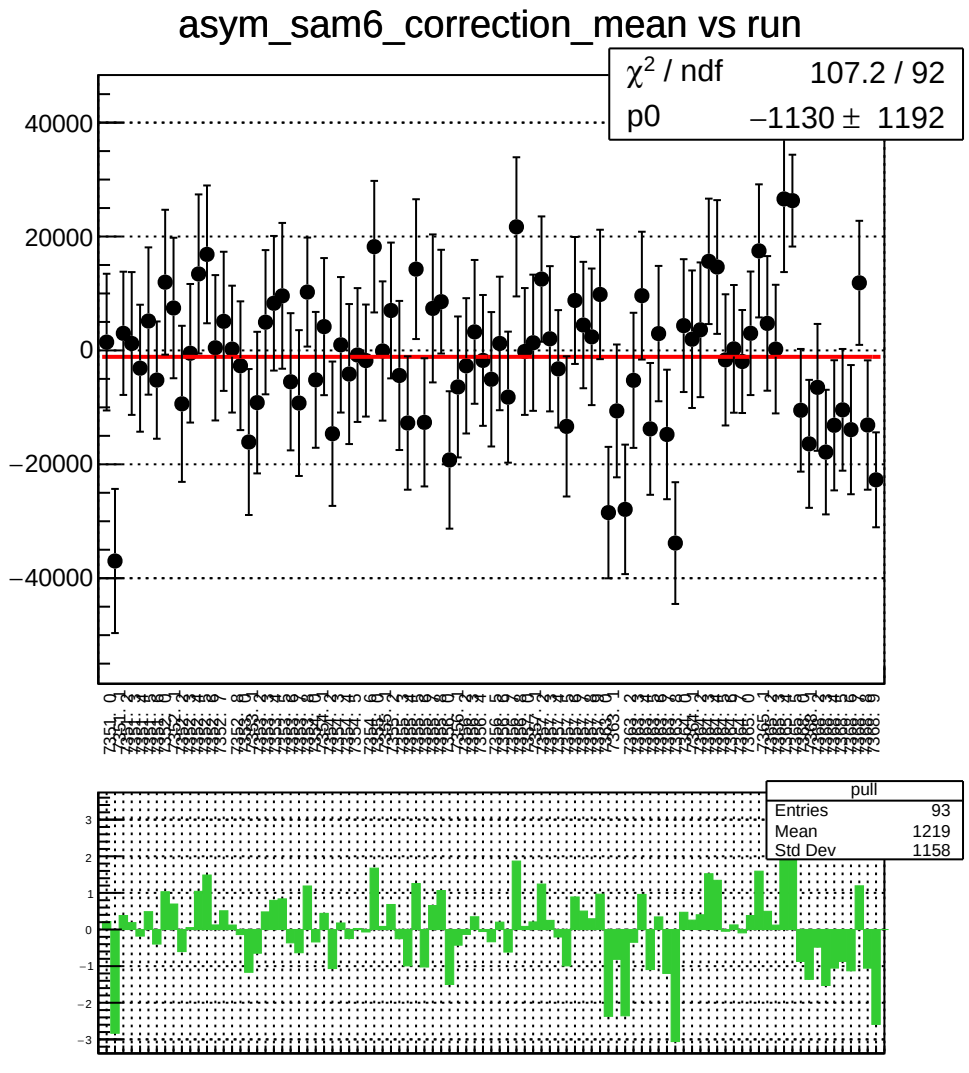

reg_asym_sam5_rms vs run
χ² / ndf 1842 / 92
p0 182.8 ± 0.1377
200
195
190
185
180
175
170

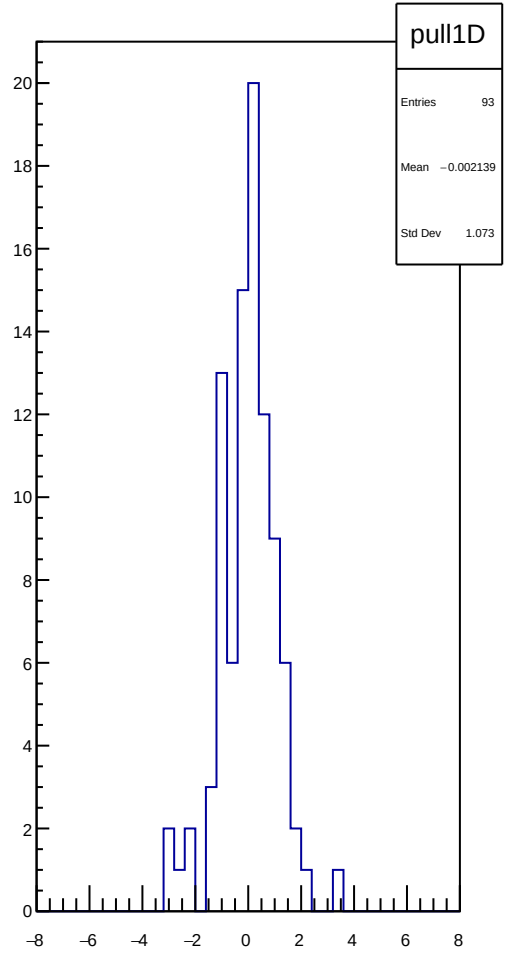

asym_sam5_correction_mean vs run
χ² / ndf 140.7 / 92
p0 −161.3 ± 1173
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −1379
Std Dev 1436
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002751
Std Dev 1.23
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

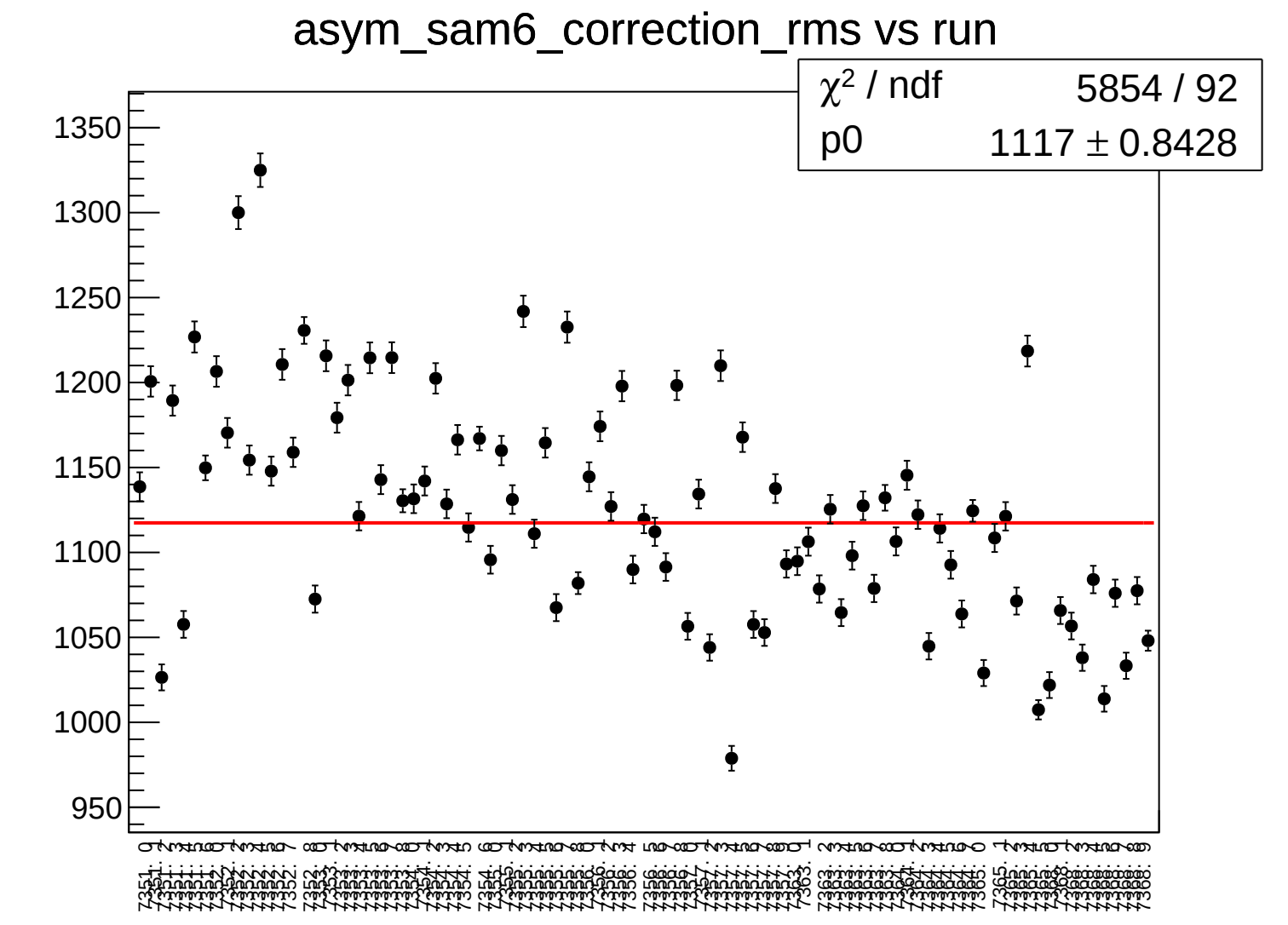

asym_sam5_correction_rms vs run
χ² / ndf 8571 / 92
p0 1099 ± 0.8298
1300
1250
1200
1150
1100
1050
1000
950
900

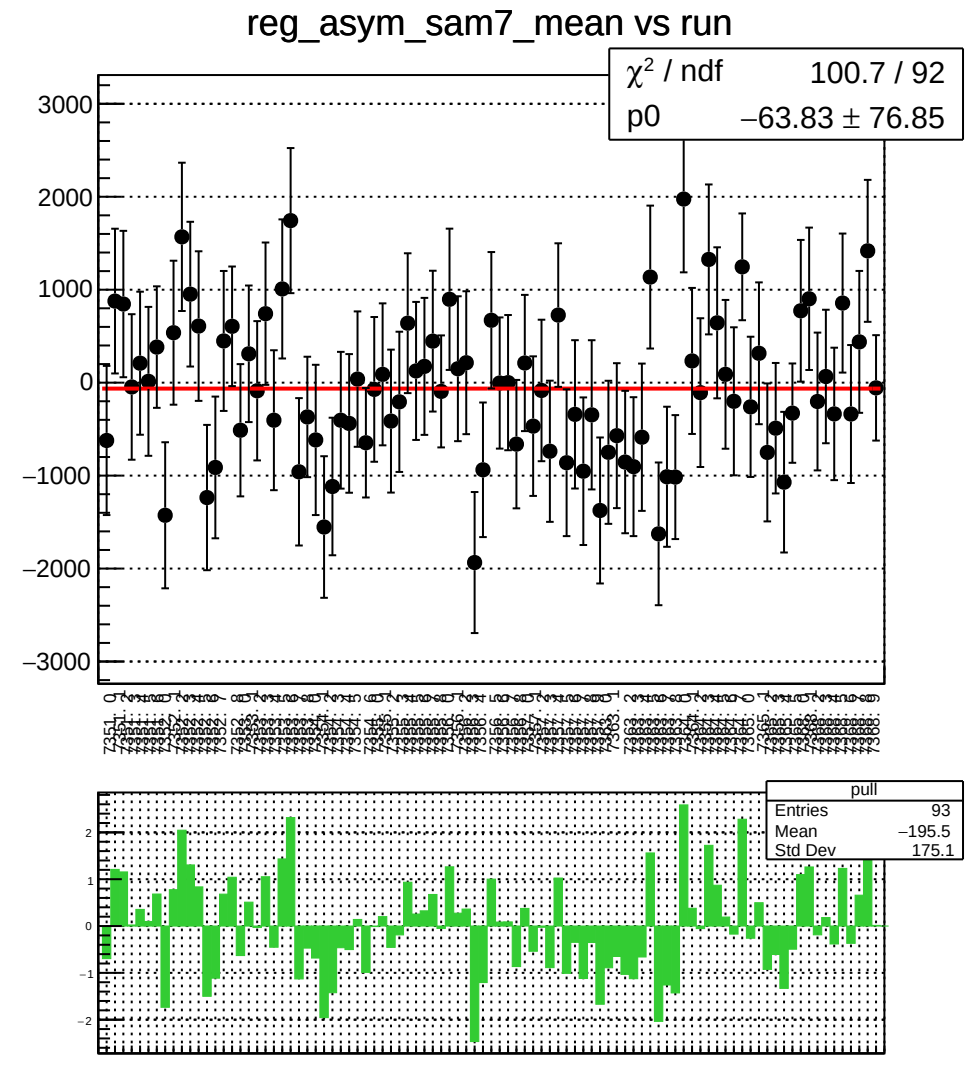

reg_asym_sam6_mean vs run
χ² / ndf 110.3 / 92
p0 −217.7 ± 193.1
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean 528.5
Std Dev 498.7
3
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.004554
Std Dev 1.089
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

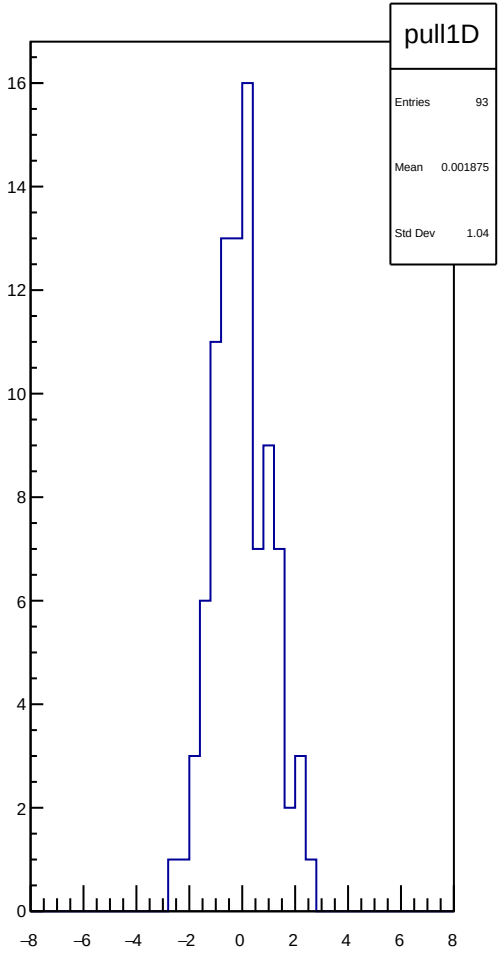

reg_asym_sam6_rms vs run
χ² / ndf 1208 / 92
p0 181.3 ± 0.1366
195
190
185
180
175
170
165

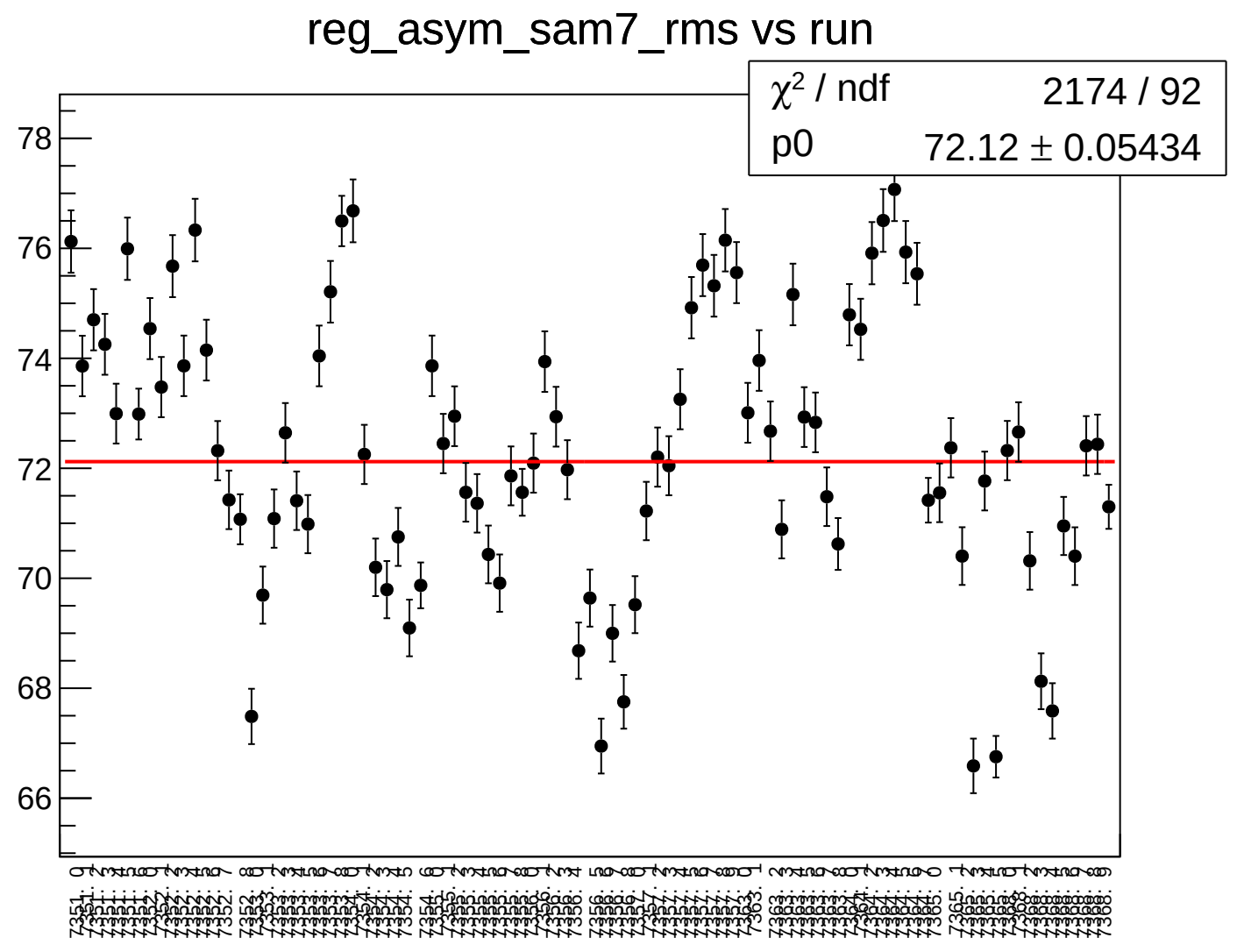

asym_sam6_correction_mean vs run
χ² / ndf 107.2 / 92
p0 −1130 ± 1192
40000
20000
0
−20000
−40000
pull
Entries 93
Mean 1219
Std Dev 1158
3
2
1
0
−1
−2
−3

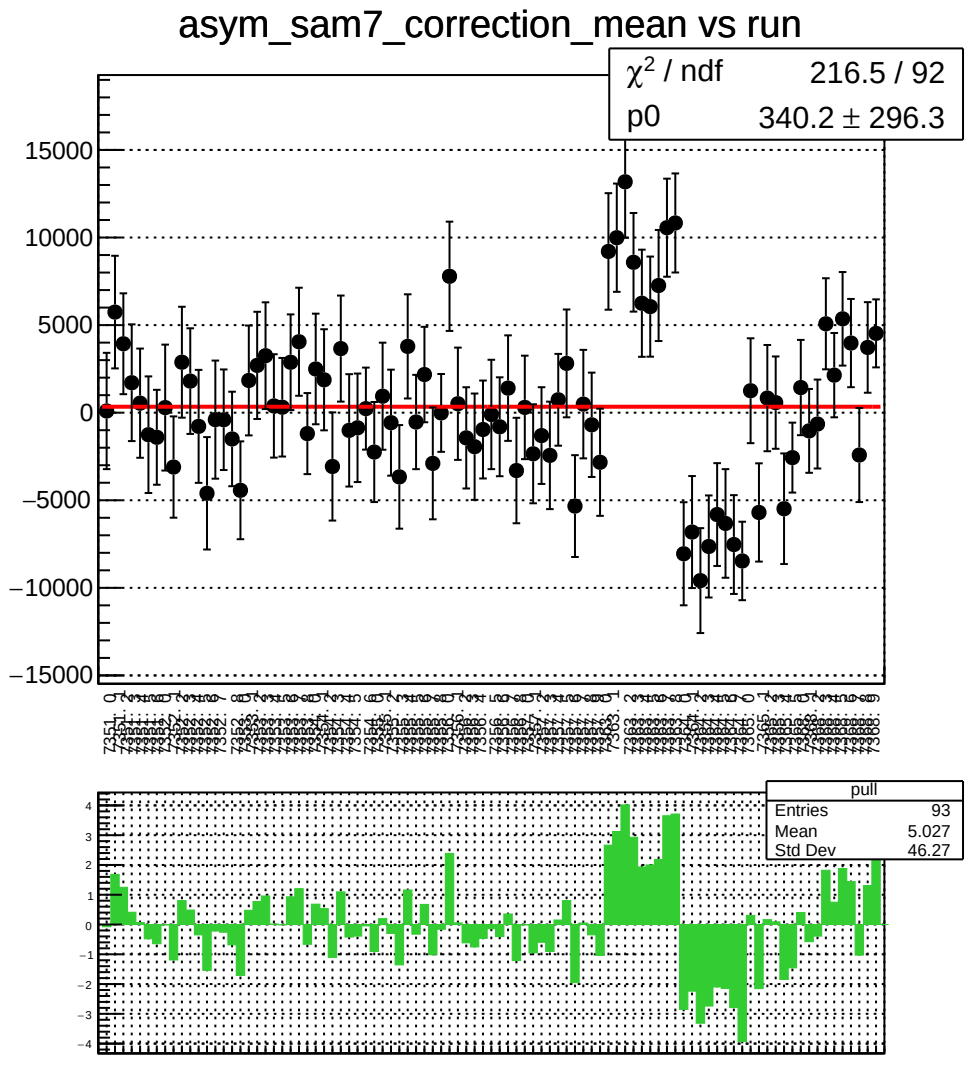

pull1D
Entries 93
Mean −0.002139
Std Dev 1.073
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

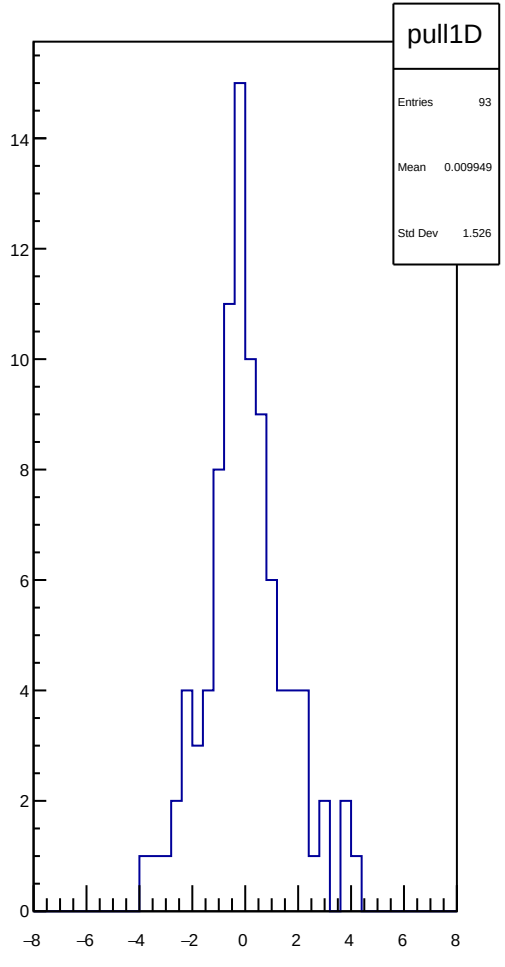

asym_sam6_correction_rms vs run
χ² / ndf 5854 / 92
p0 1117 ± 0.8428
1350
1300
1250
1200
1150
1100
1050
1000
950

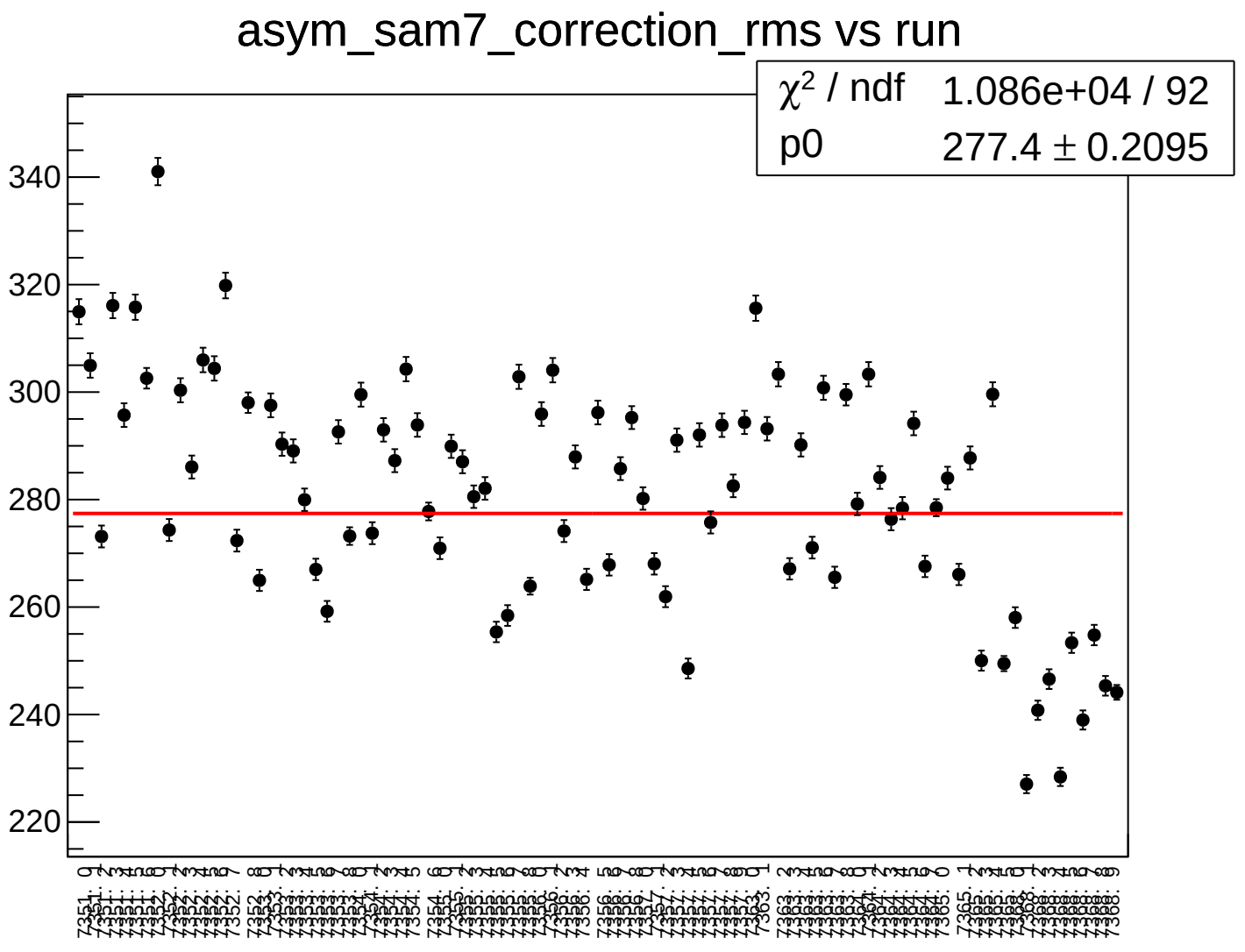

reg_asym_sam7_mean vs run
χ² / ndf 100.7 / 92
p0 −63.83 ± 76.85
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −195.5
Std Dev 175.1
2
1
0
−1
−2

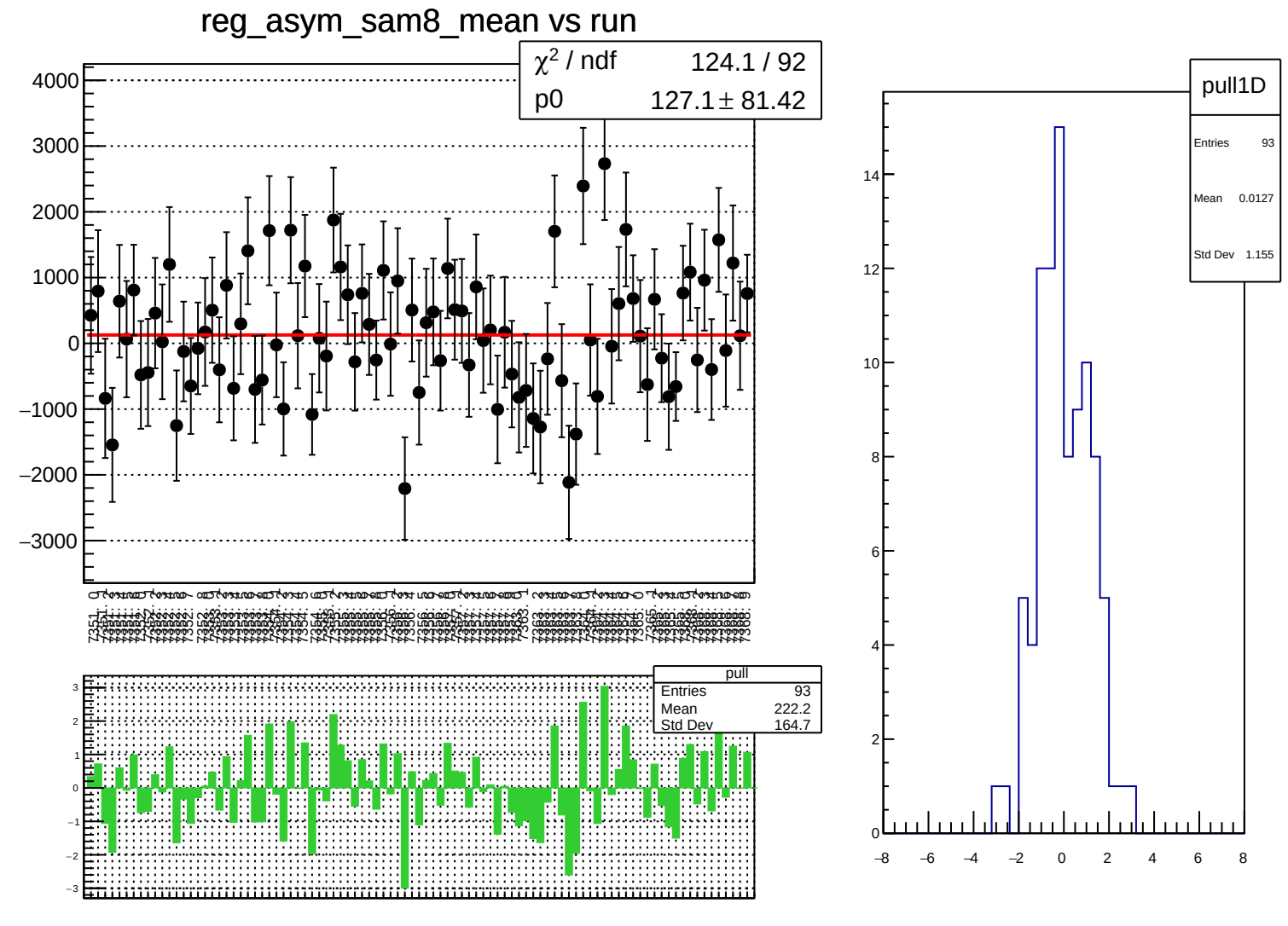

pull1D
Entries 93
Mean 0.001875
Std Dev 1.04
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

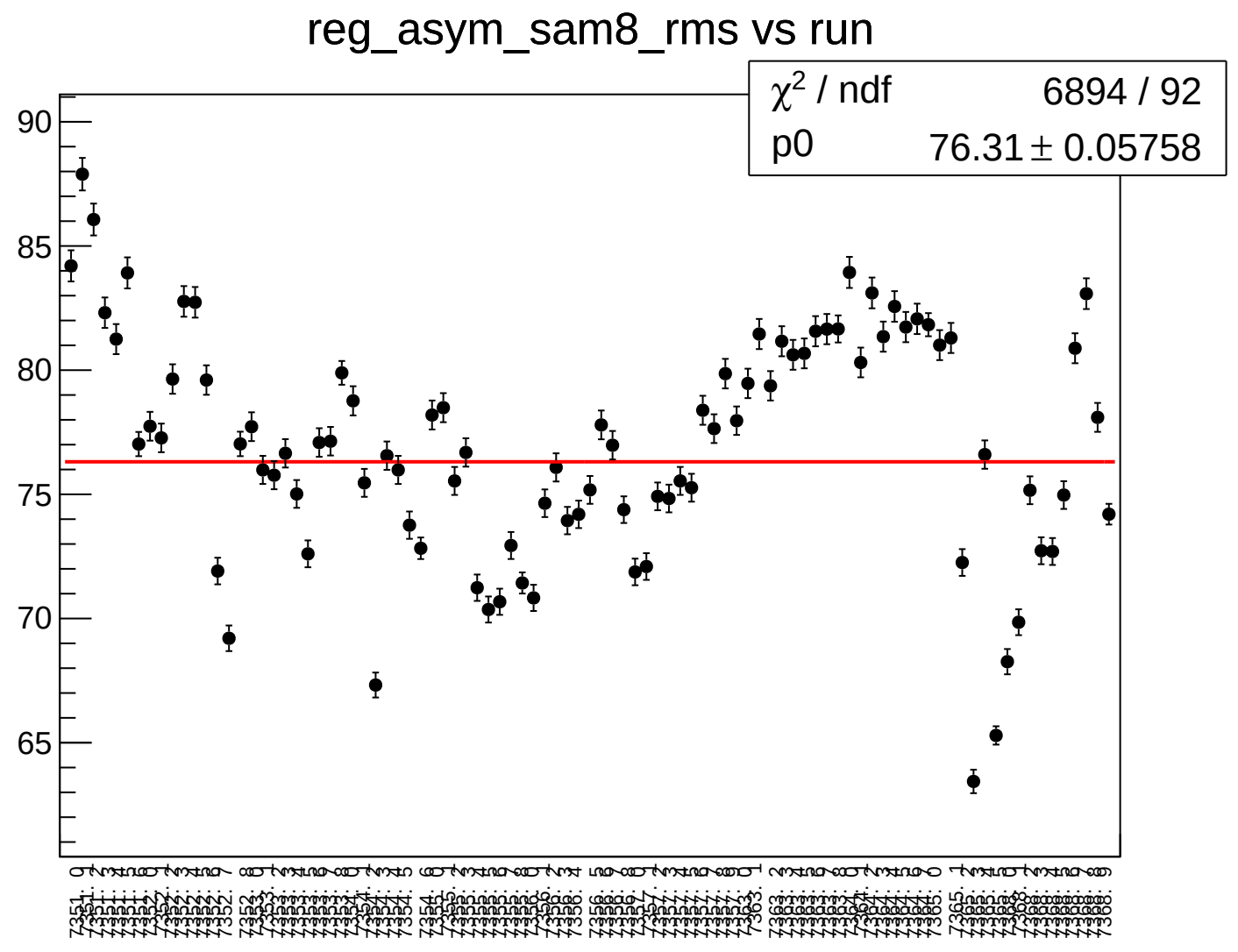

reg_asym_sam7_rms vs run
χ^2 / ndf 2174 / 92
p0 72.12 ± 0.05434
78
76
74
72
70
68
66

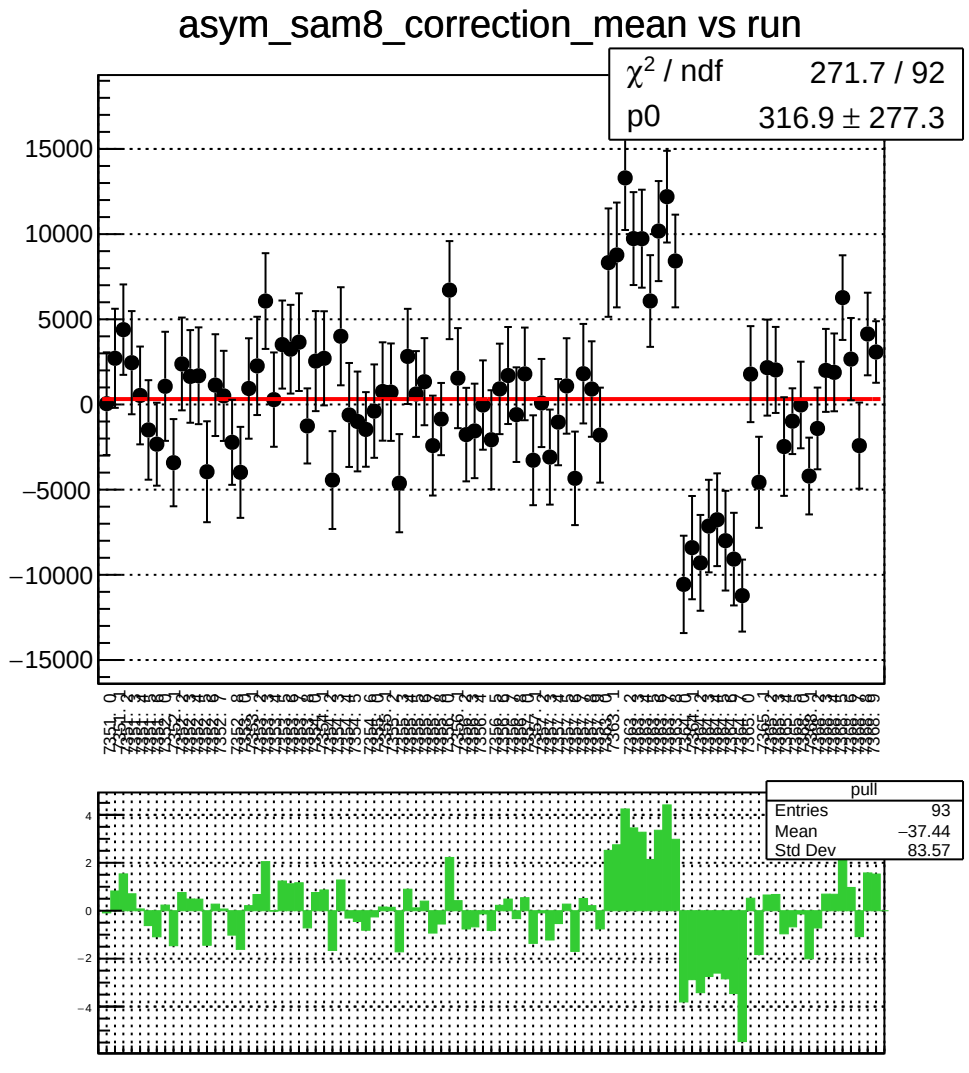

asym_sam7_correction_mean vs run
χ² / ndf 216.5 / 92
p0 340.2 ± 296.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 5.027
Std Dev 46.27
4
3
2
1
0
−1
−2
−3
−4

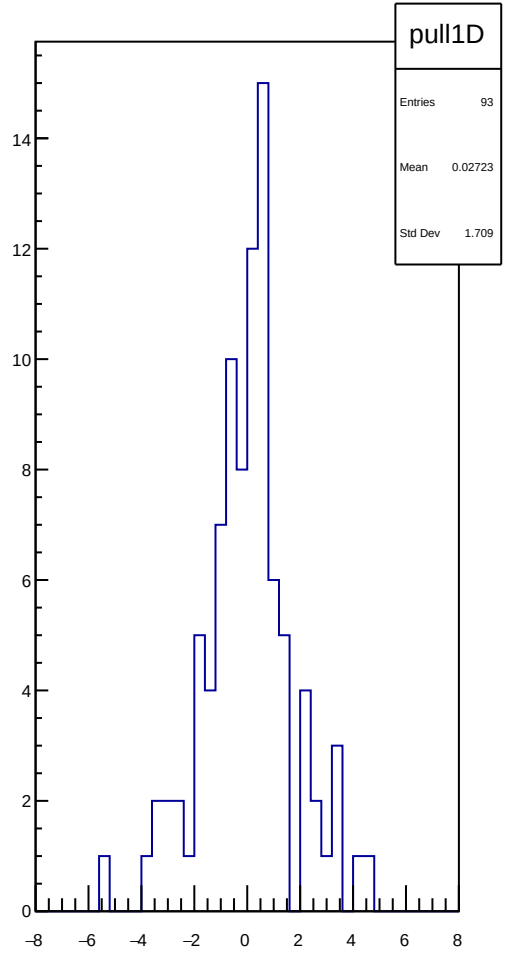

pull1D
Entries 93
Mean 0.009949
Std Dev 1.526
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

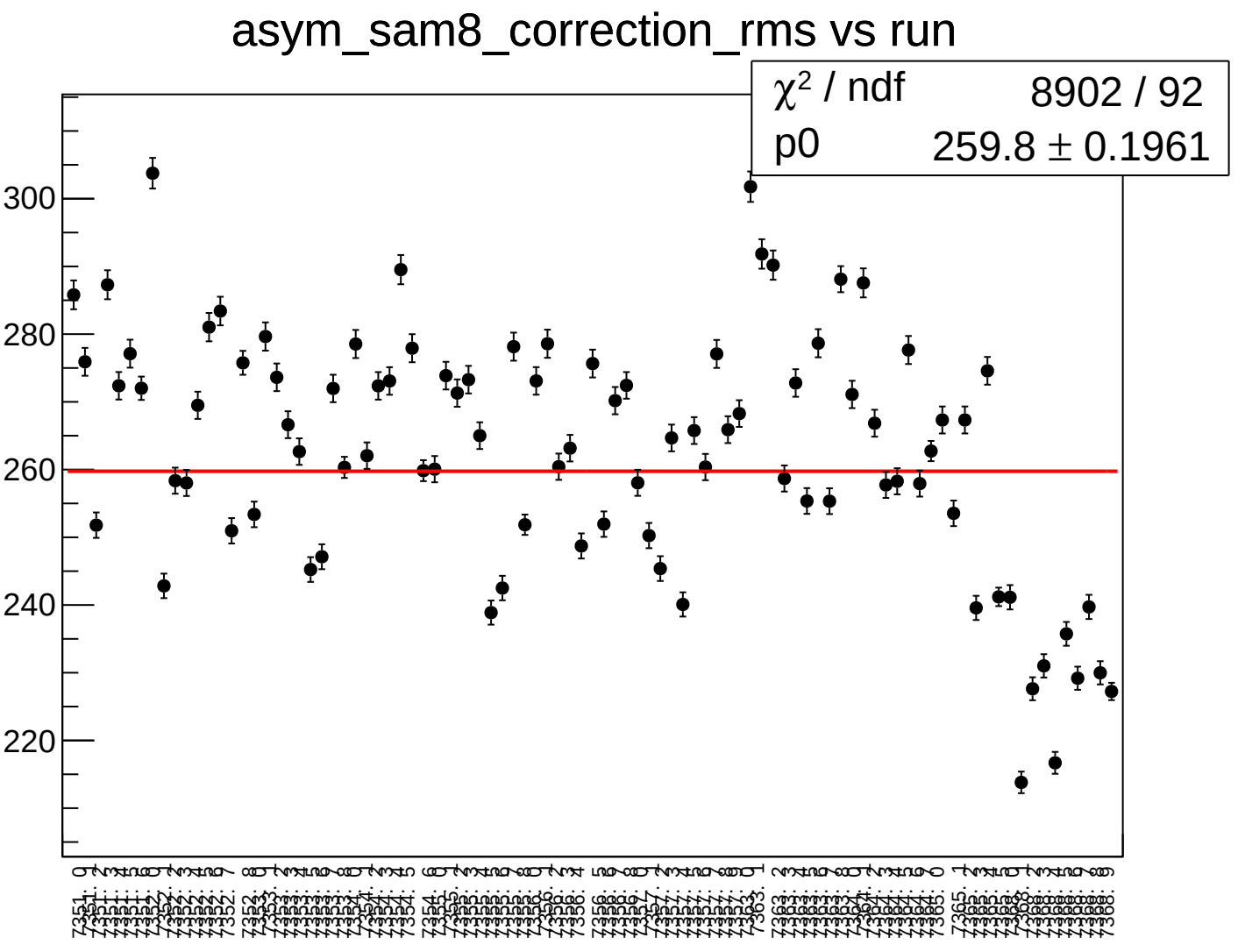

asym_sam7_correction_rms vs run
χ² / ndf 1.086e+04 / 92
p0 277.4 ± 0.2095
340
320
300
280
260
240
220

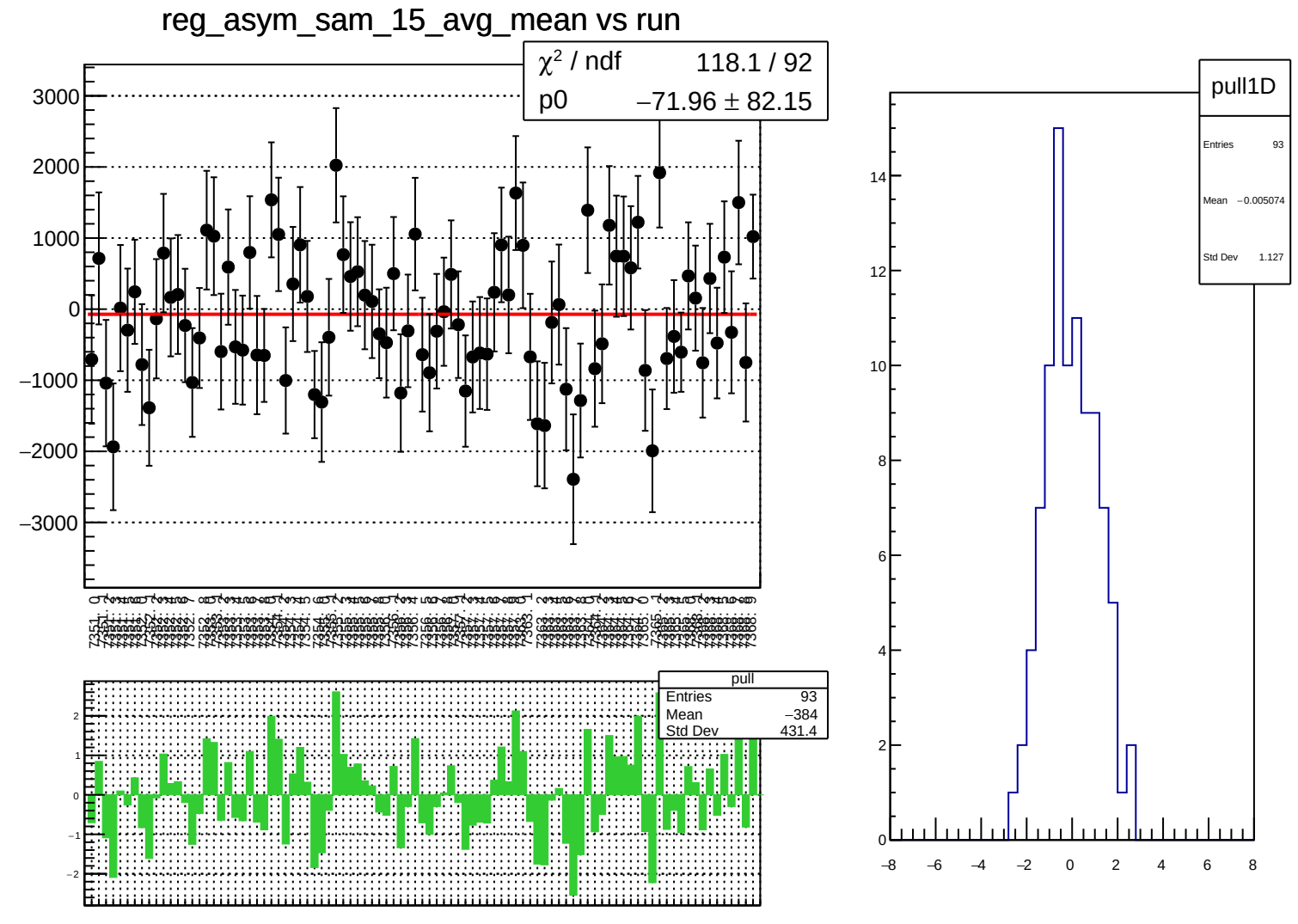

reg_asym_sam8_mean vs run
χ² / ndf 124.1 / 92
p0 127.1 ± 81.42
pull
Entries 93
Mean 222.2
Std Dev 164.7
pull1D
Entries 93
Mean 0.0127
Std Dev 1.155

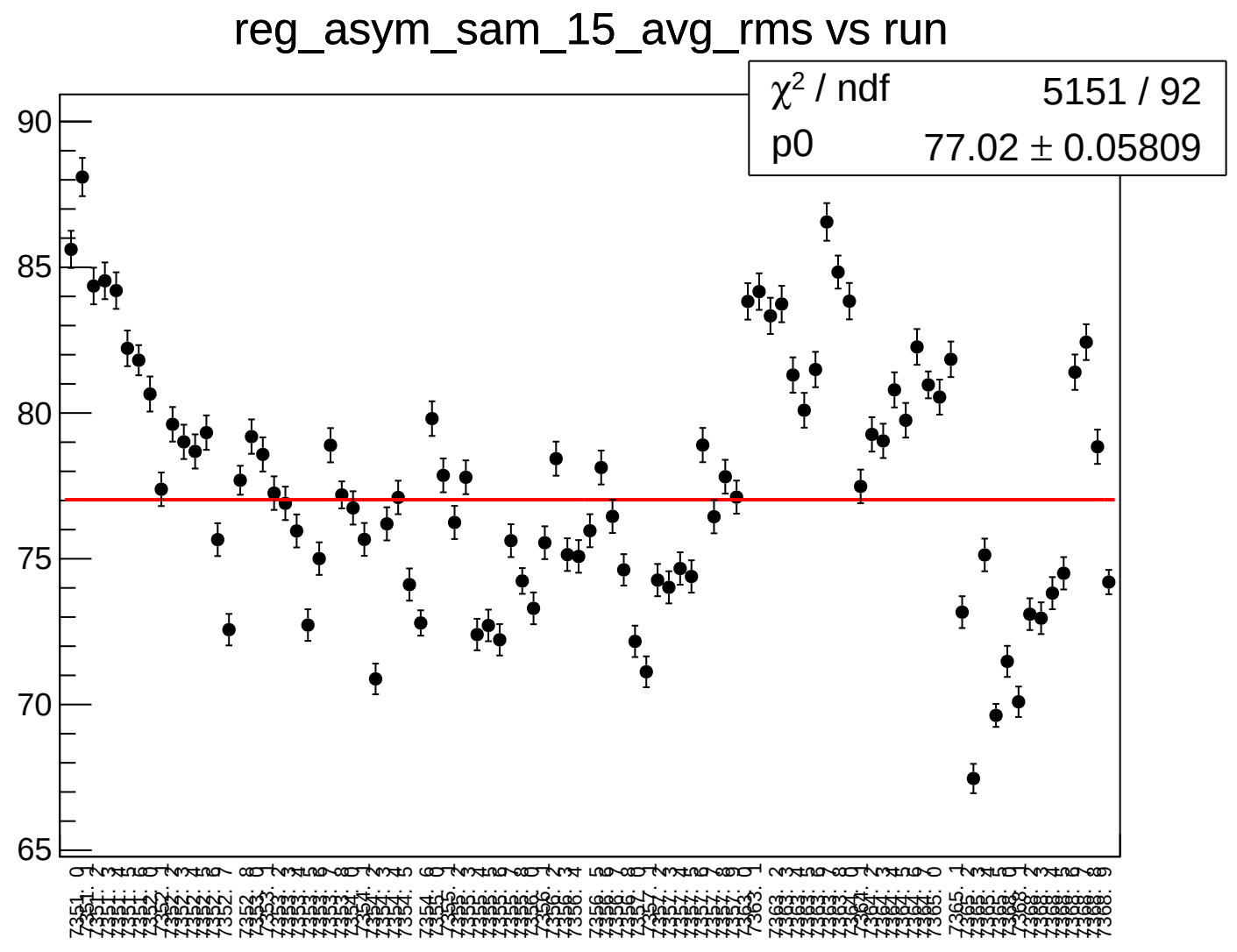

reg_asym_sam8_rms vs run
χ^2 / ndf 6894 / 92
p0 76.31 ± 0.05758
90
85
80
75
70
65

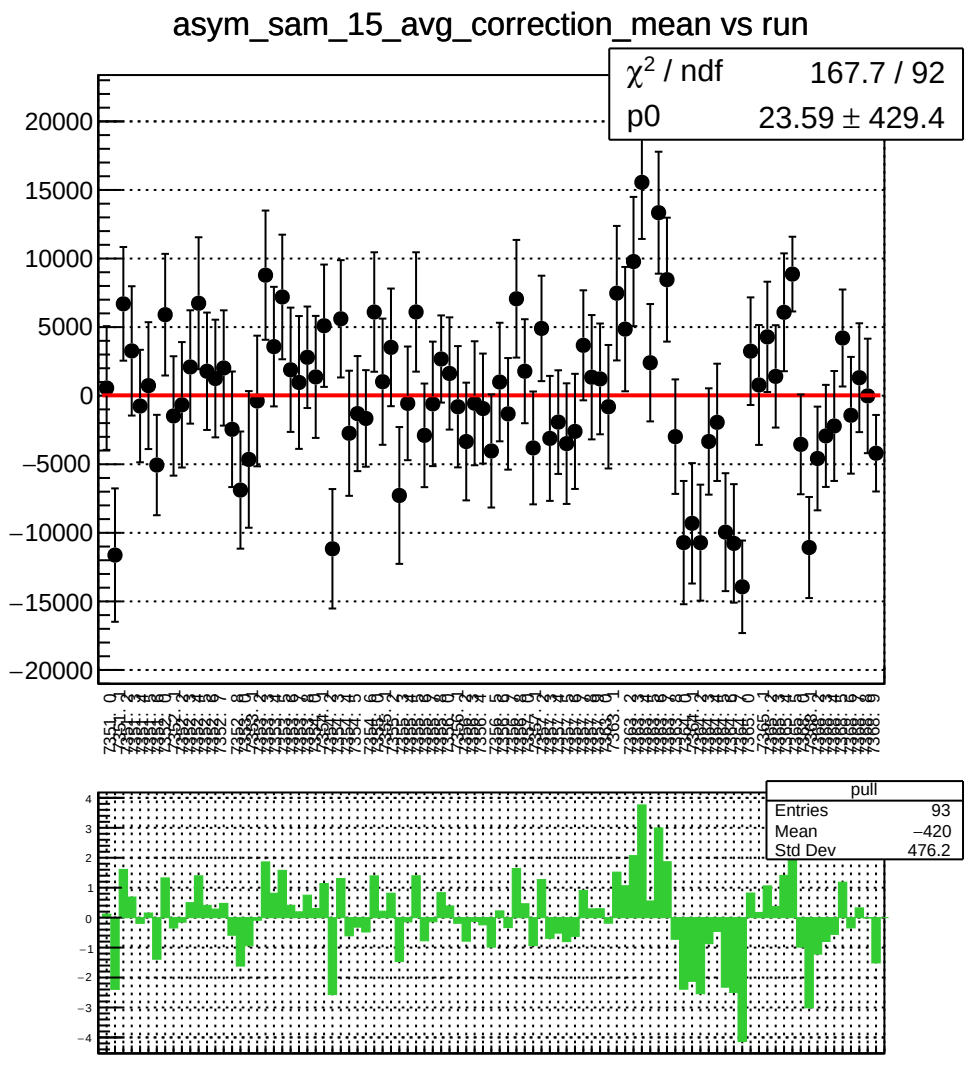

asym_sam8_correction_mean vs run
χ² / ndf 271.7 / 92
p0 316.9 ± 277.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −37.44
Std Dev 83.57
4
2
0
−2
−4

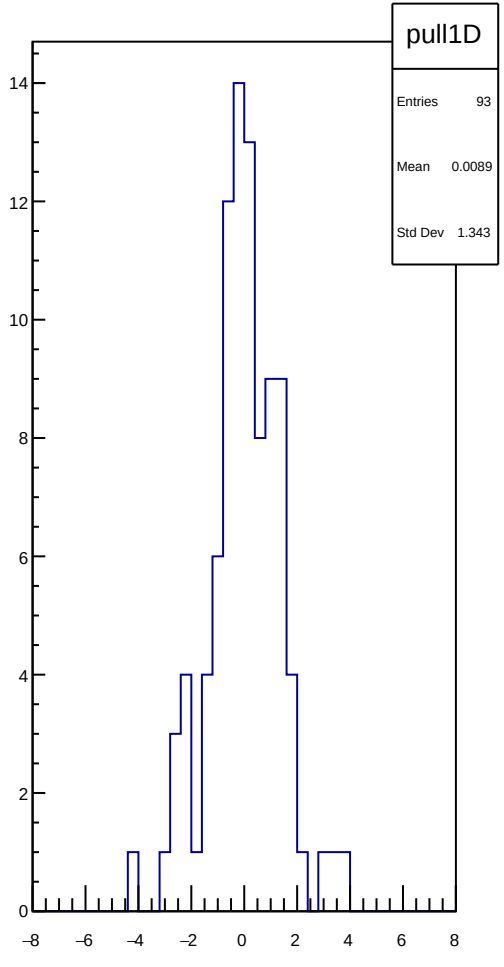

pull1D
Entries 93
Mean 0.02723
Std Dev 1.709
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

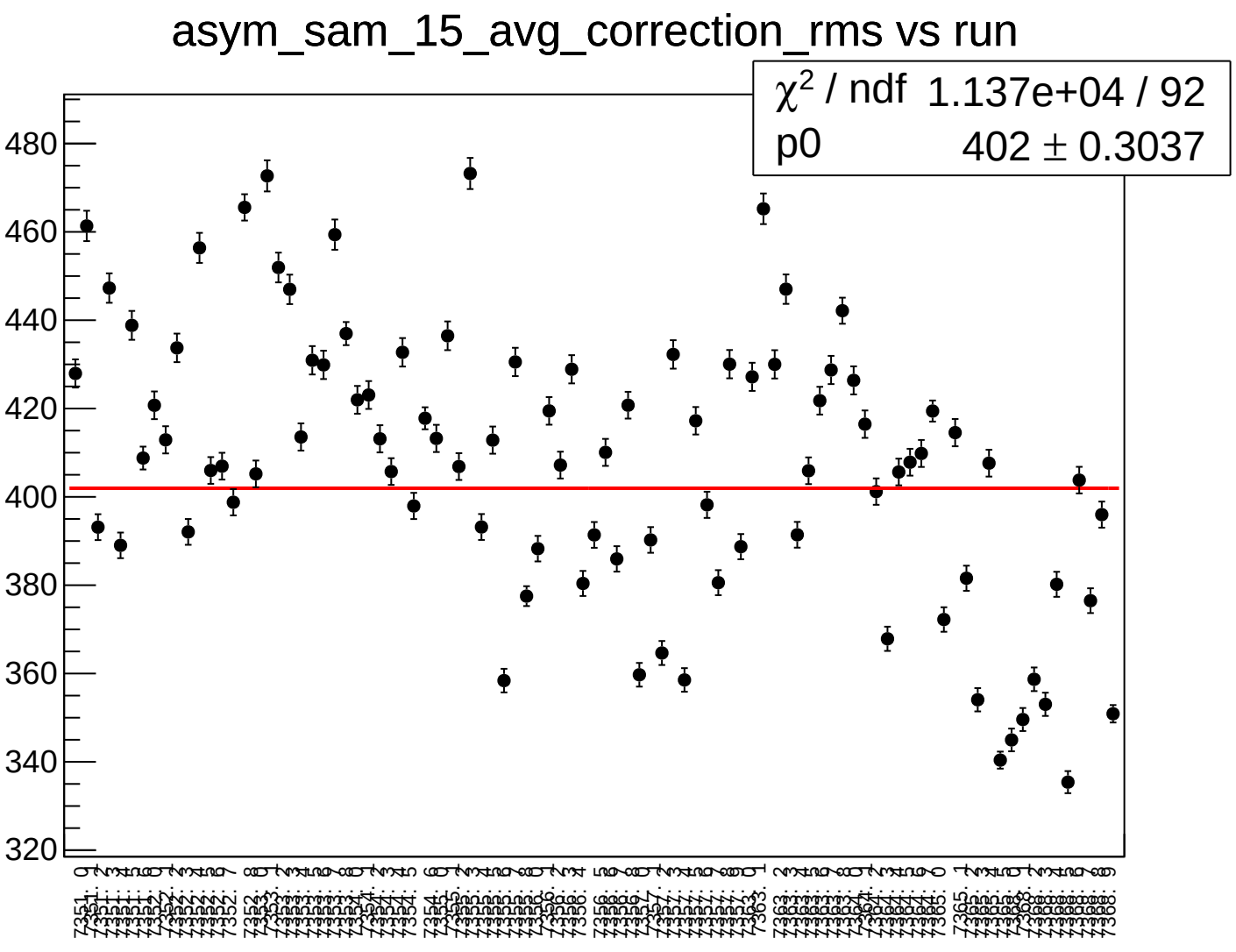

asym_sam8_correction_rms vs run
χ² / ndf 8902 / 92
p0 259.8 ± 0.1961
300
280
260
240
220

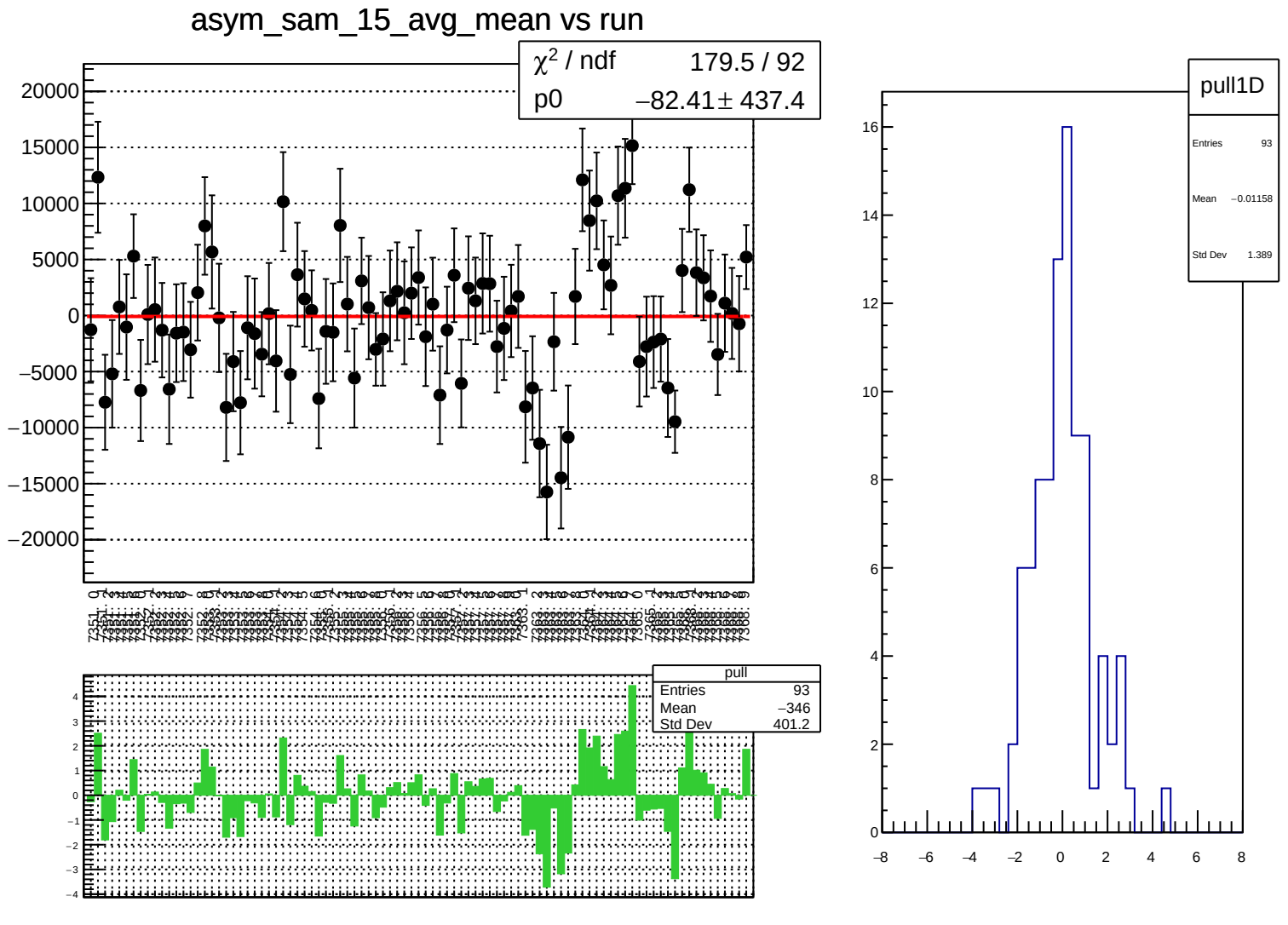

reg_asym_sam_15_avg_mean vs run
χ² / ndf 118.1 / 92
p0 −71.96 ± 82.15
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −384
Std Dev 431.4
2
1
0
−1
−2
pull1D
Entries 93
Mean −0.005074
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

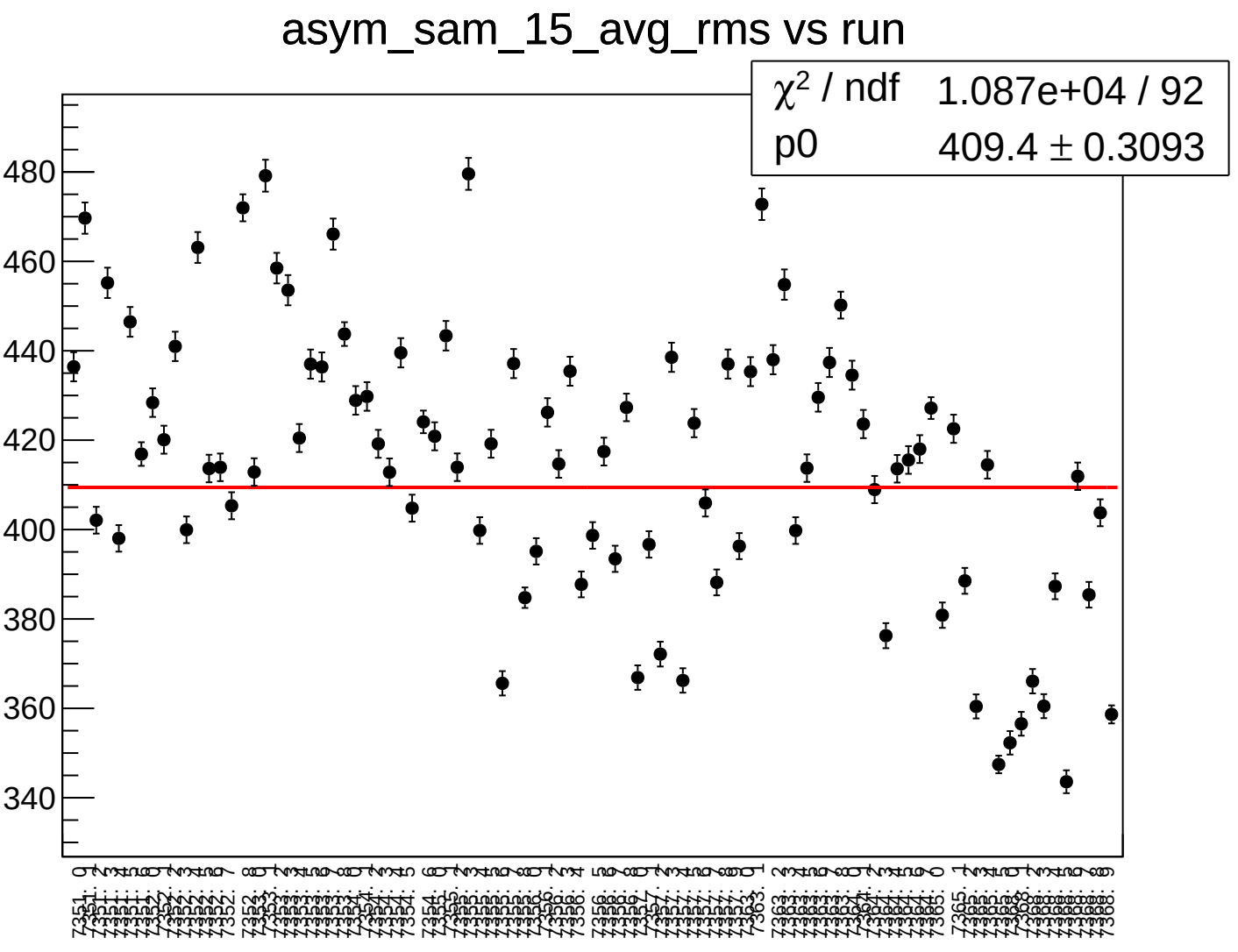

reg_asym_sam_15_avg_rms vs run
χ^2 / ndf 5151 / 92
p0 77.02 ± 0.05809
90
85
80
75
70
65

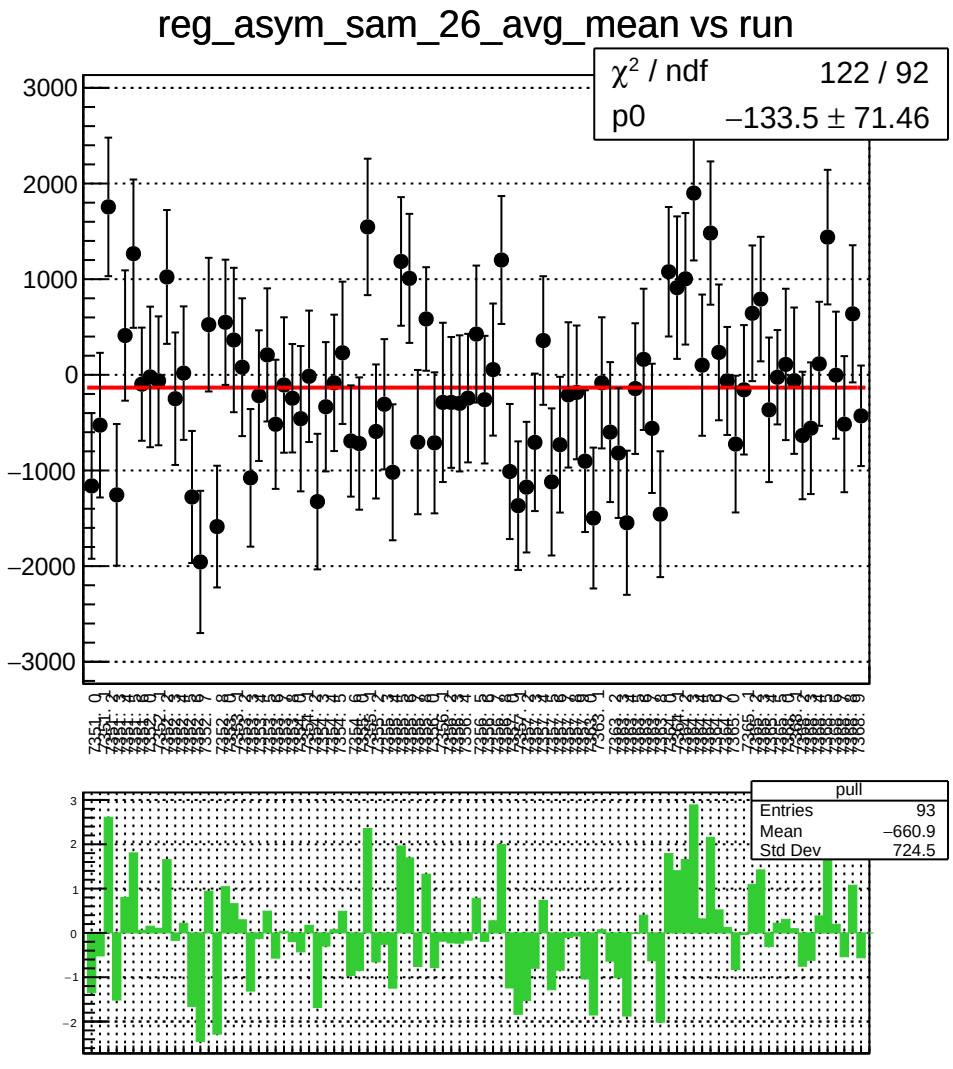

asym_sam_15_avg_correction_mean vs run
χ² / ndf 167.7 / 92
p0 23.59 ± 429.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −420
Std Dev 476.2
4
3
2
1
0
−1
−2
−3
−4

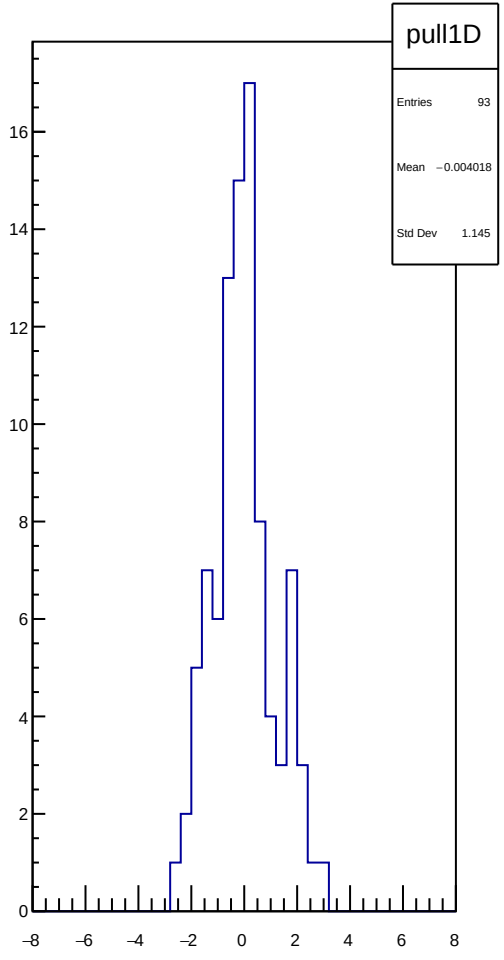

pull1D
Entries 93
Mean 0.0089
Std Dev 1.343
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

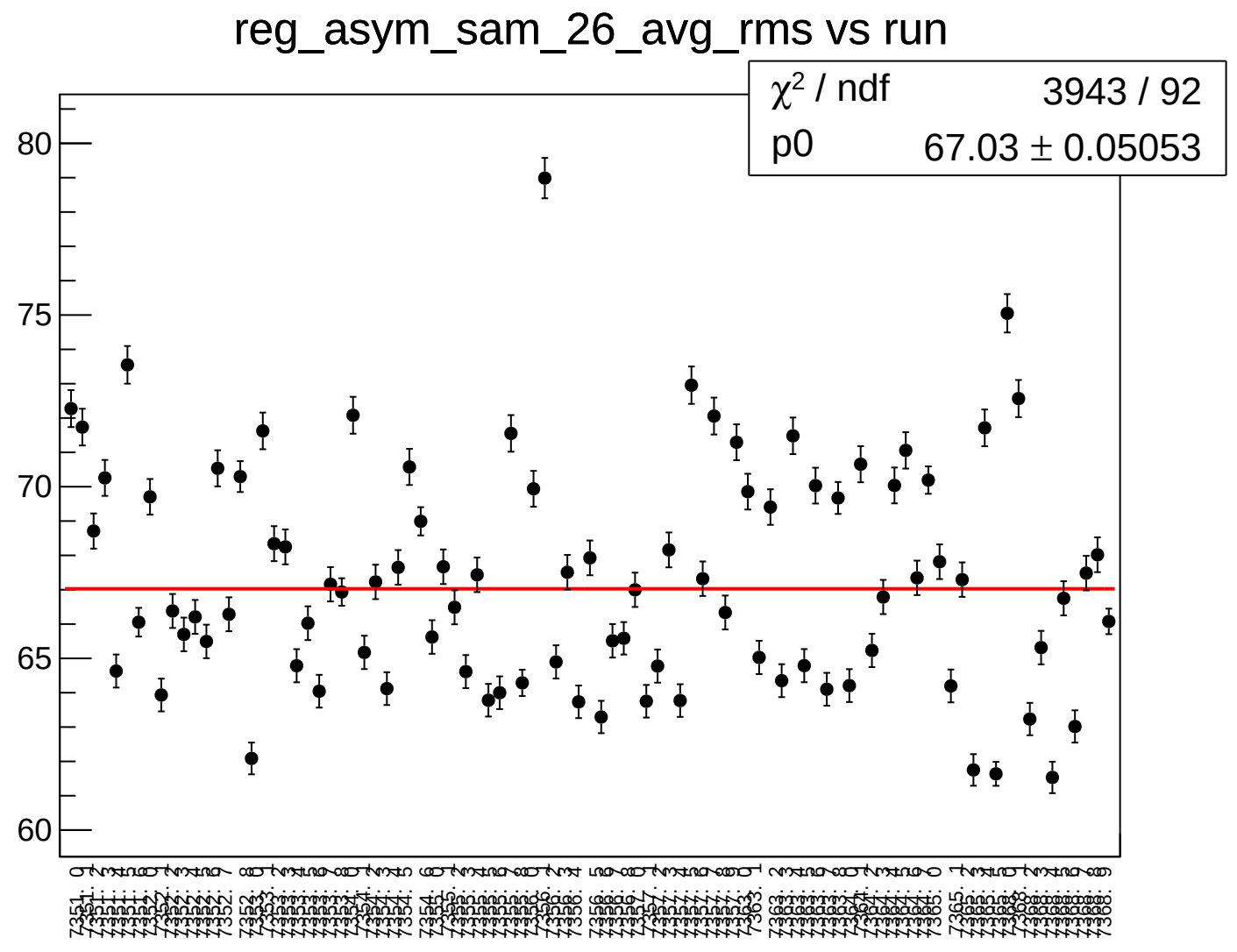

asym_sam_15_avg_correction_rms vs run
χ² / ndf 1.137e+04 / 92
p0 402 ± 0.3037
480
460
440
420
400
380
360
340
320

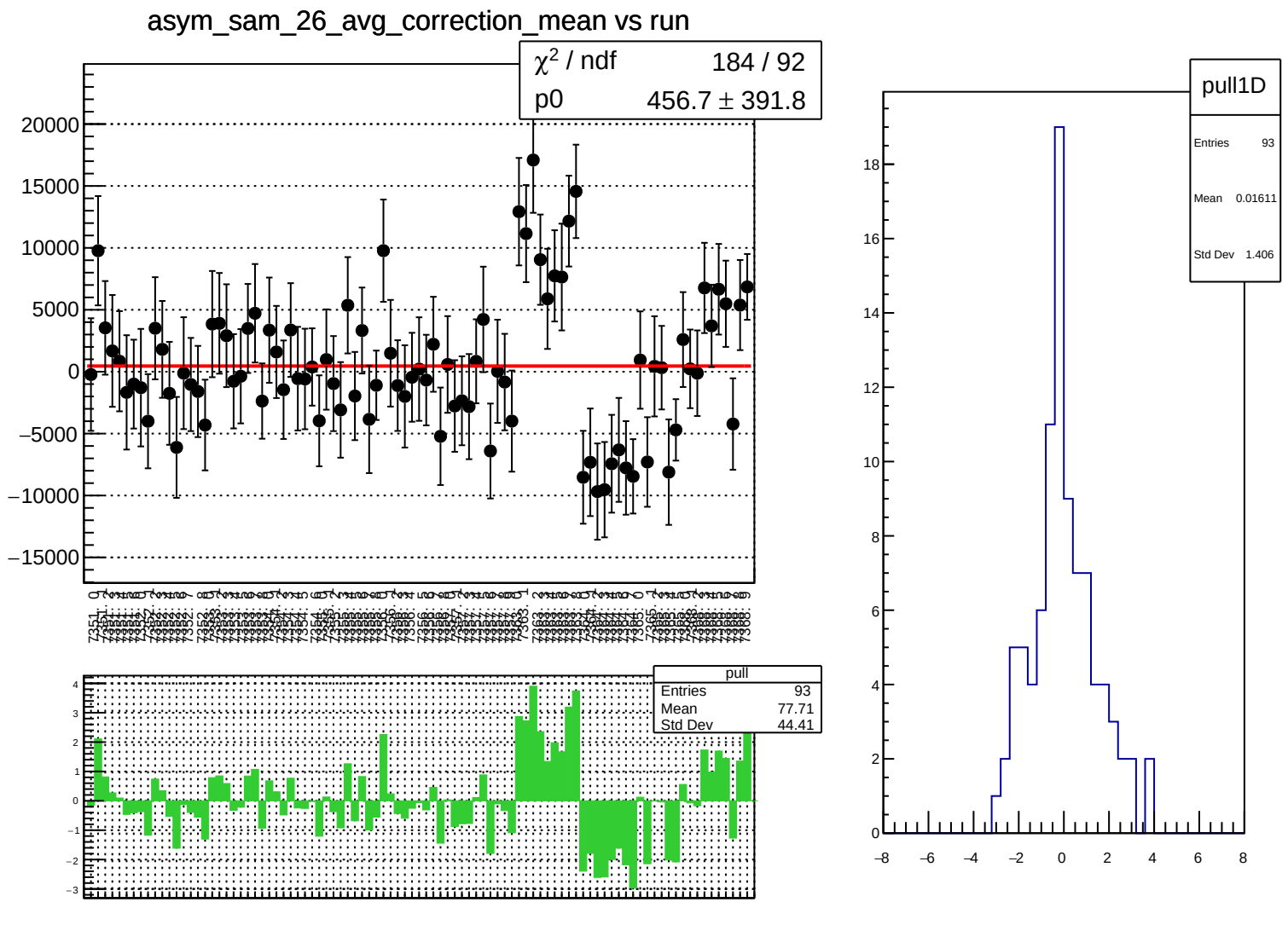

asym_sam_15_avg_mean vs run
χ² / ndf 179.5 / 92
p0 −82.41 ± 437.4
pull
Entries 93
Mean −346
Std Dev 401.2
pull1D
Entries 93
Mean −0.01158
Std Dev 1.389

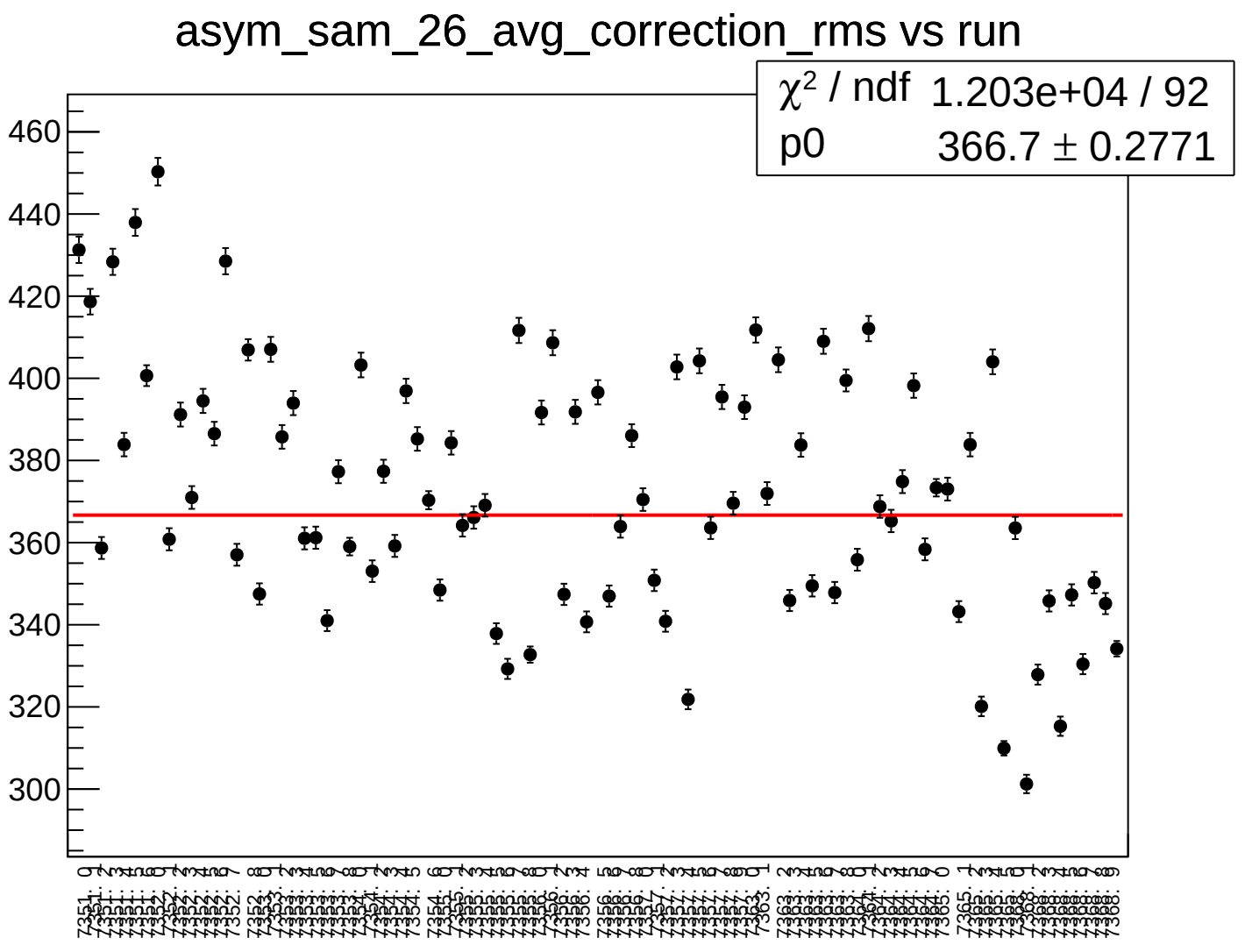

asym_sam_15_avg_rms vs run
χ² / ndf 1.087e+04 / 92
p0 409.4 ± 0.3093
480
460
440
420
400
380
360
340

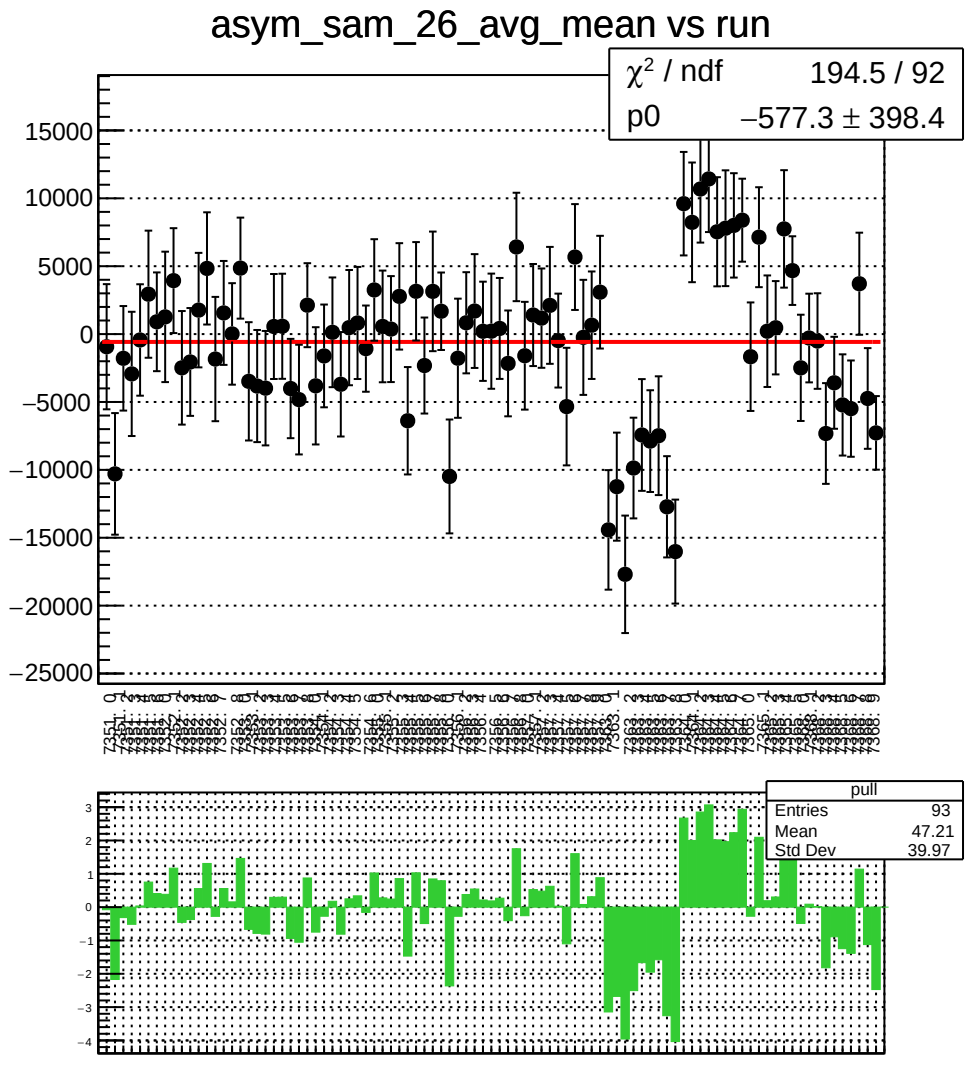

reg_asym_sam_26_avg_mean vs run
χ² / ndf 122 / 92
p0 −133.5 ± 71.46
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −660.9
Std Dev 724.5
3
2
1
0
−1
−2

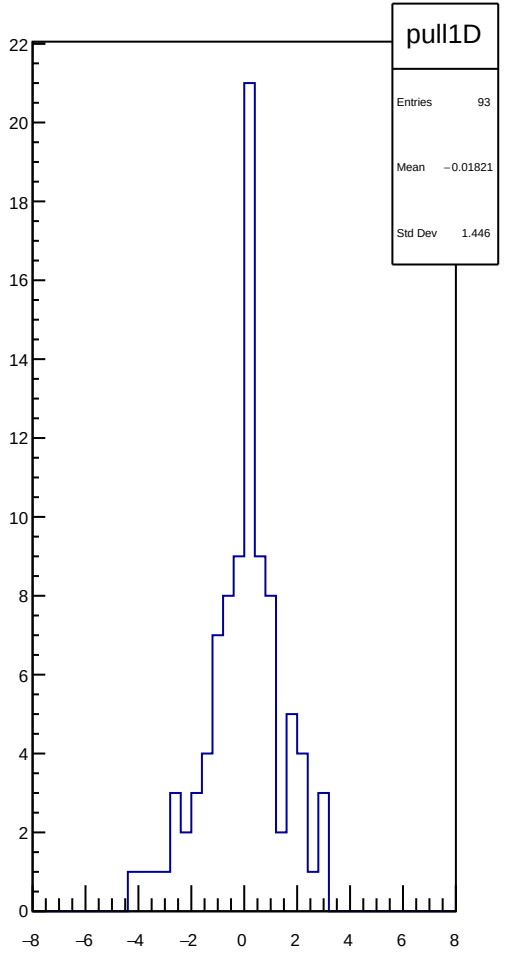

pull1D
Entries 93
Mean −0.004018
Std Dev 1.145
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

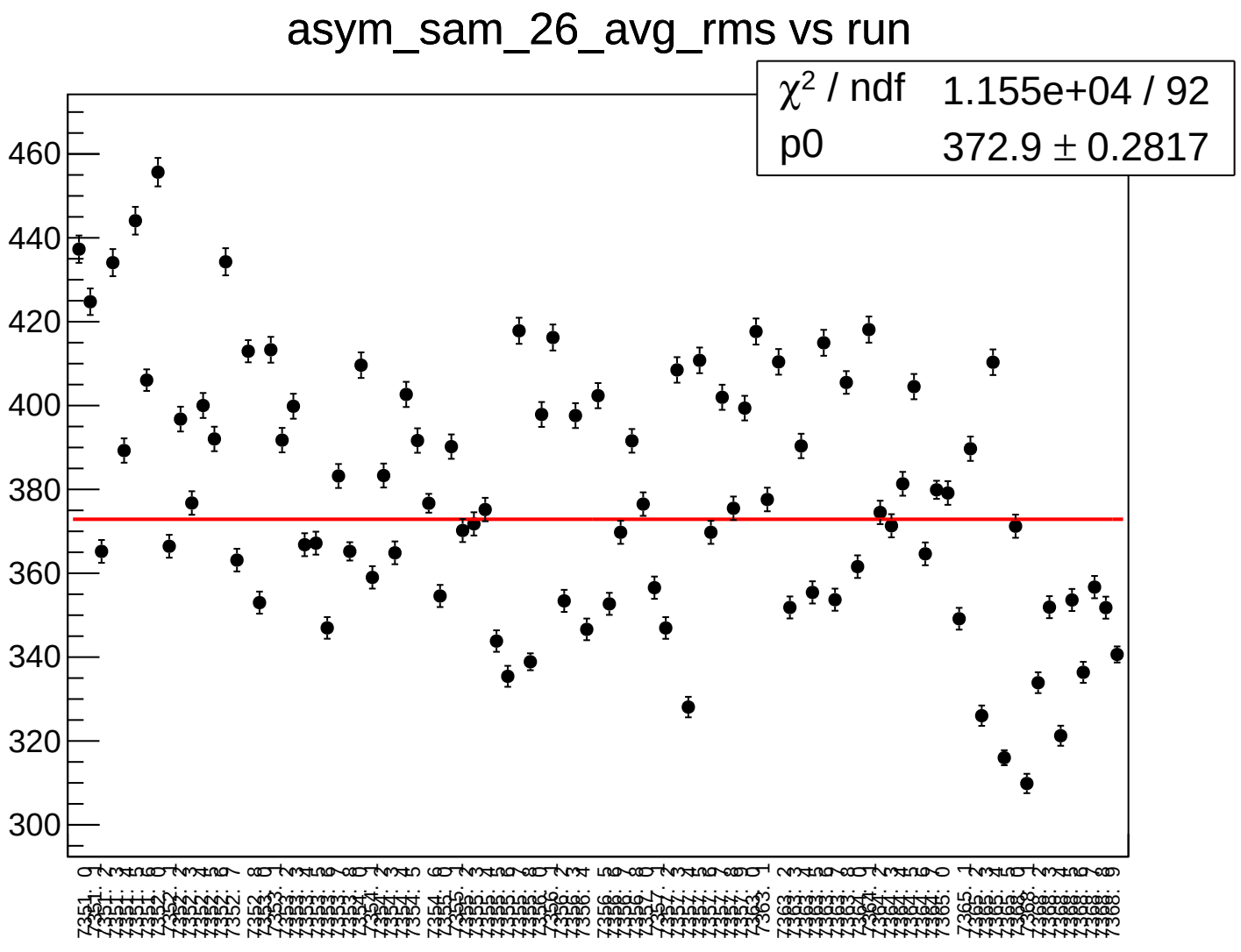

reg_asym_sam_26_avg_rms vs run
χ^2 / ndf 3943 / 92
p0 67.03 ± 0.05053
80
75
70
65
60

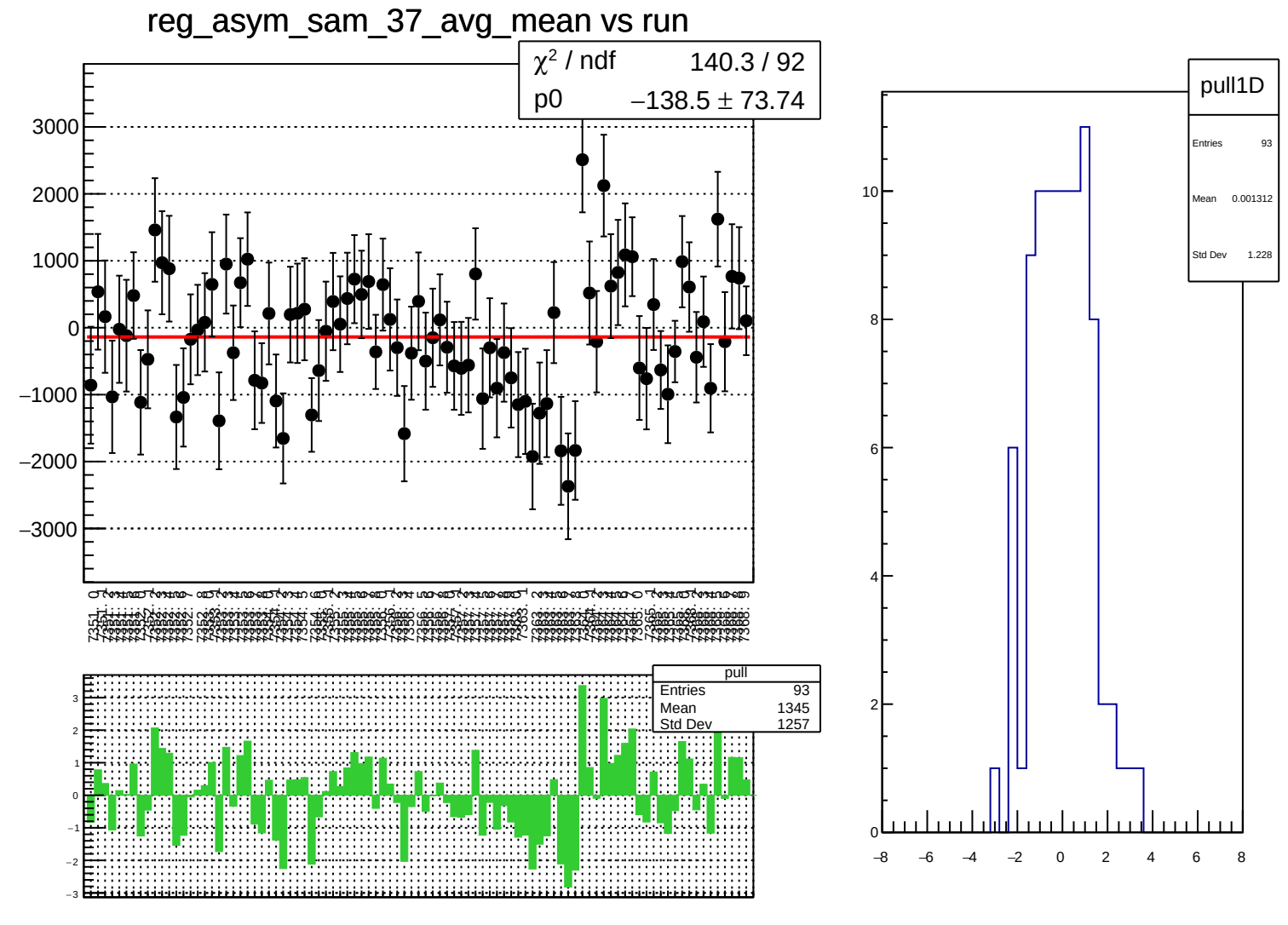

asym_sam_26_avg_correction_mean vs run
χ² / ndf 184 / 92
p0 456.7 ± 391.8
pull
Entries 93
Mean 77.71
Std Dev 44.41
pull1D
Entries 93
Mean 0.01611
Std Dev 1.406

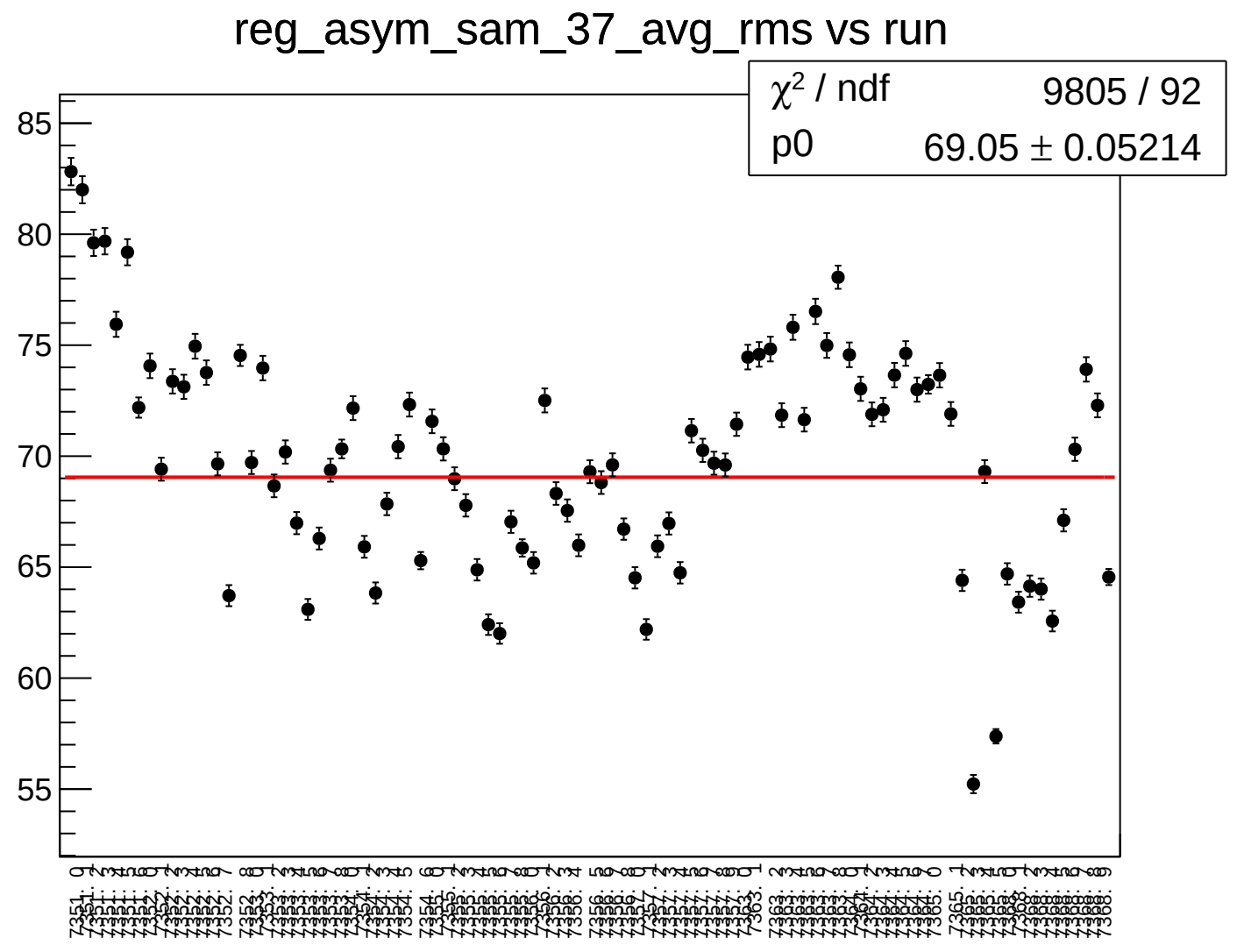

asym_sam_26_avg_correction_rms vs run
χ² / ndf 1.203e+04 / 92
p0 366.7 ± 0.2771
460
440
420
400
380
360
340
320
300

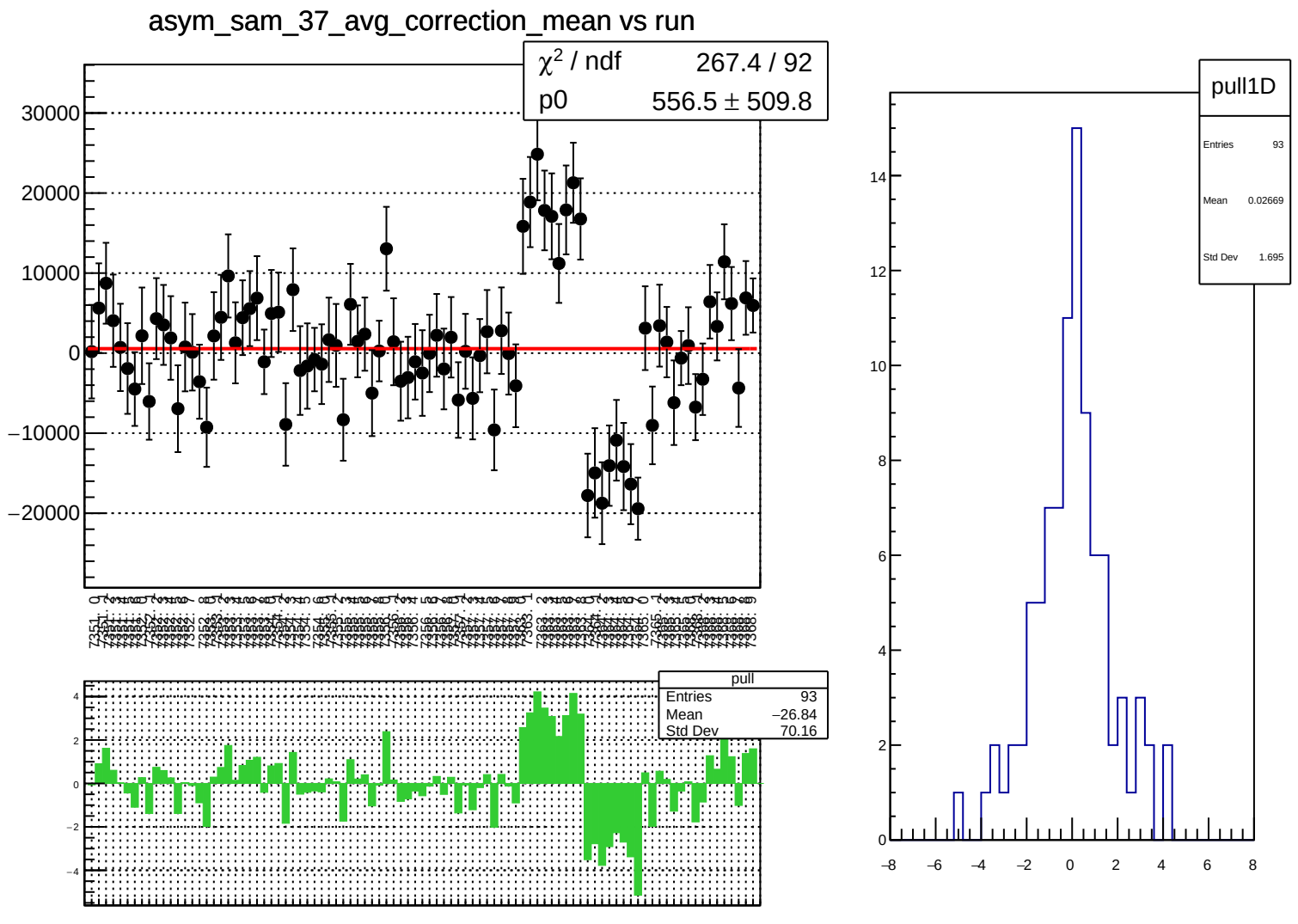

asym_sam_26_avg_mean vs run
χ² / ndf 194.5 / 92
p0 −577.3 ± 398.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 93
Mean 47.21
Std Dev 39.97
3
2
1
0
−1
−2
−3
−4

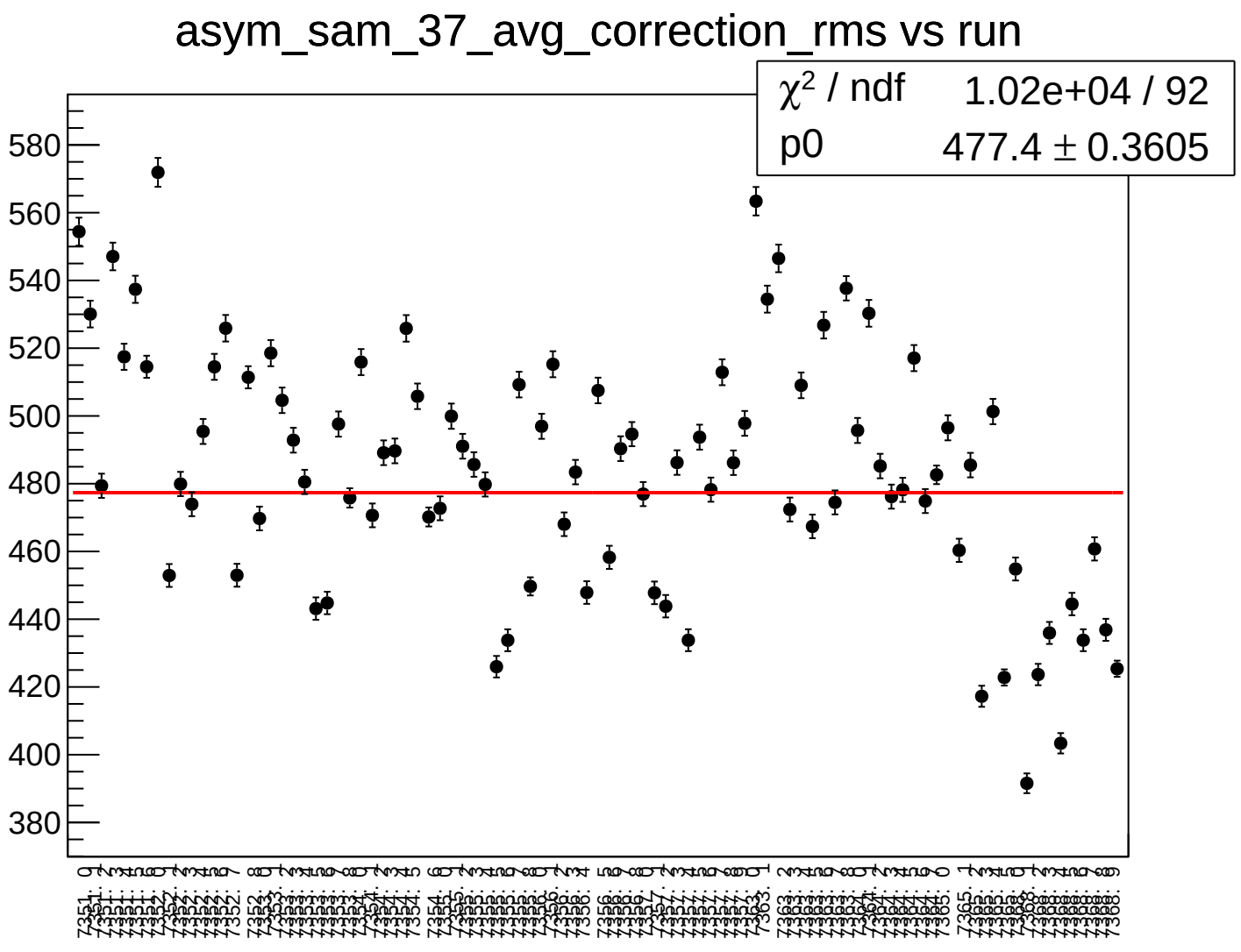

pull1D
Entries 93
Mean −0.01821
Std Dev 1.446
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

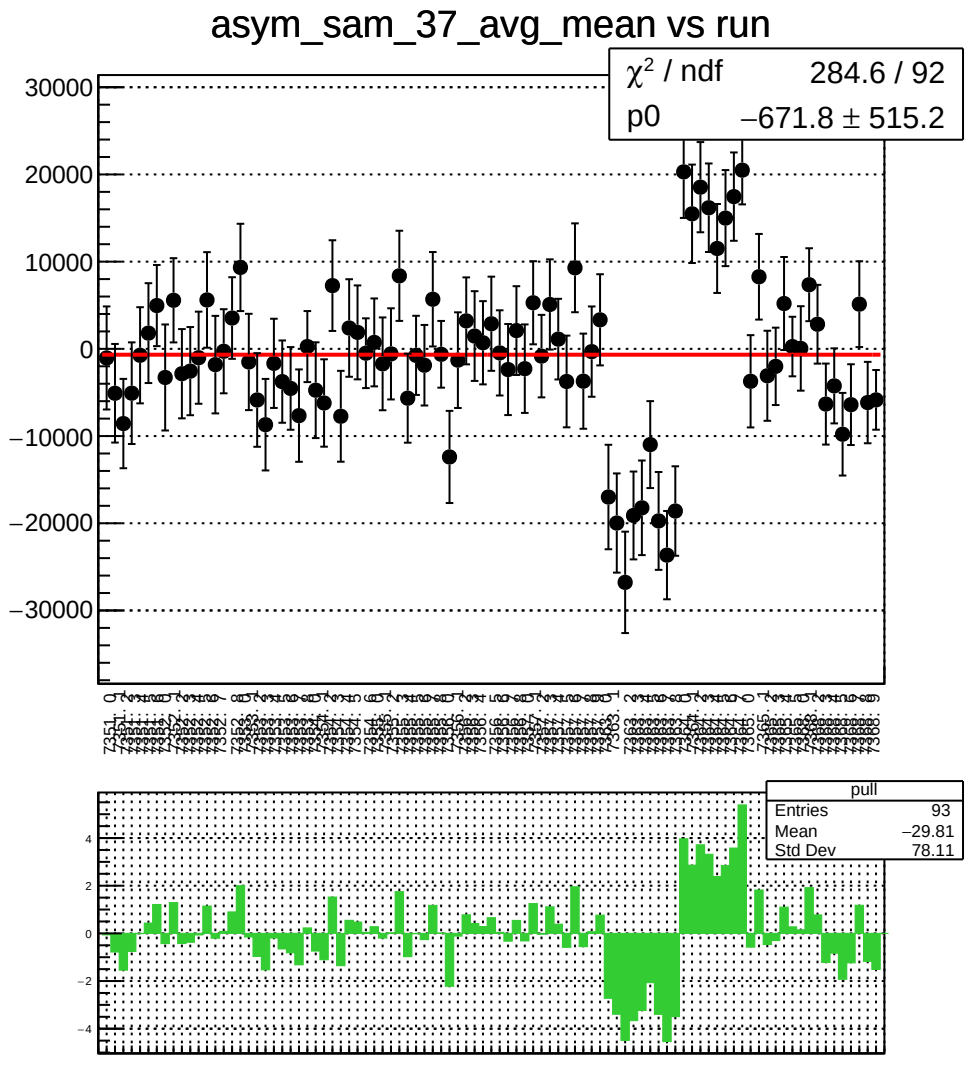

asym_sam_26_avg_rms vs run
χ^2 / ndf 1.155e+04 / 92
p0 372.9 ± 0.2817
460
440
420
400
380
360
340
320
300

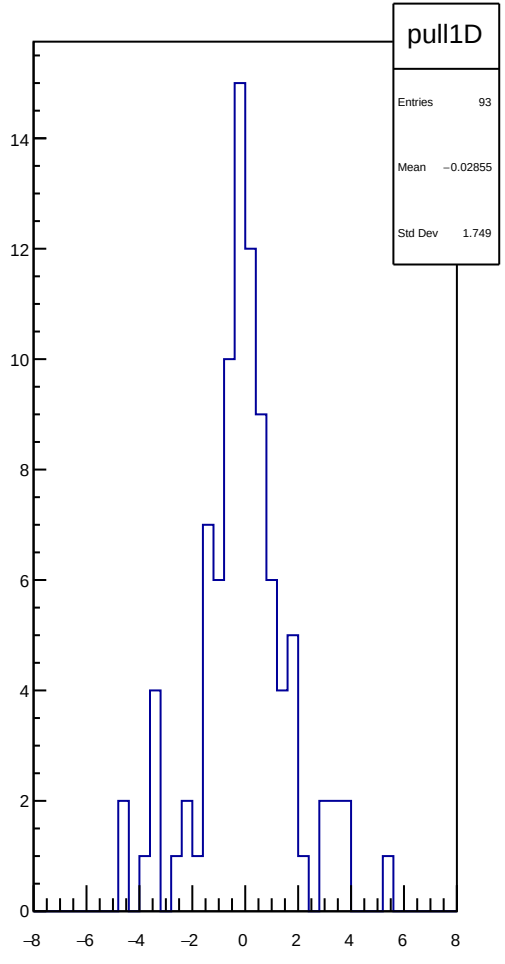

reg_asym_sam_37_avg_mean vs run
χ² / ndf 140.3 / 92
p0 −138.5 ± 73.74
pull
Entries 93
Mean 1345
Std Dev 1257
pull1D
Entries 93
Mean 0.001312
Std Dev 1.228

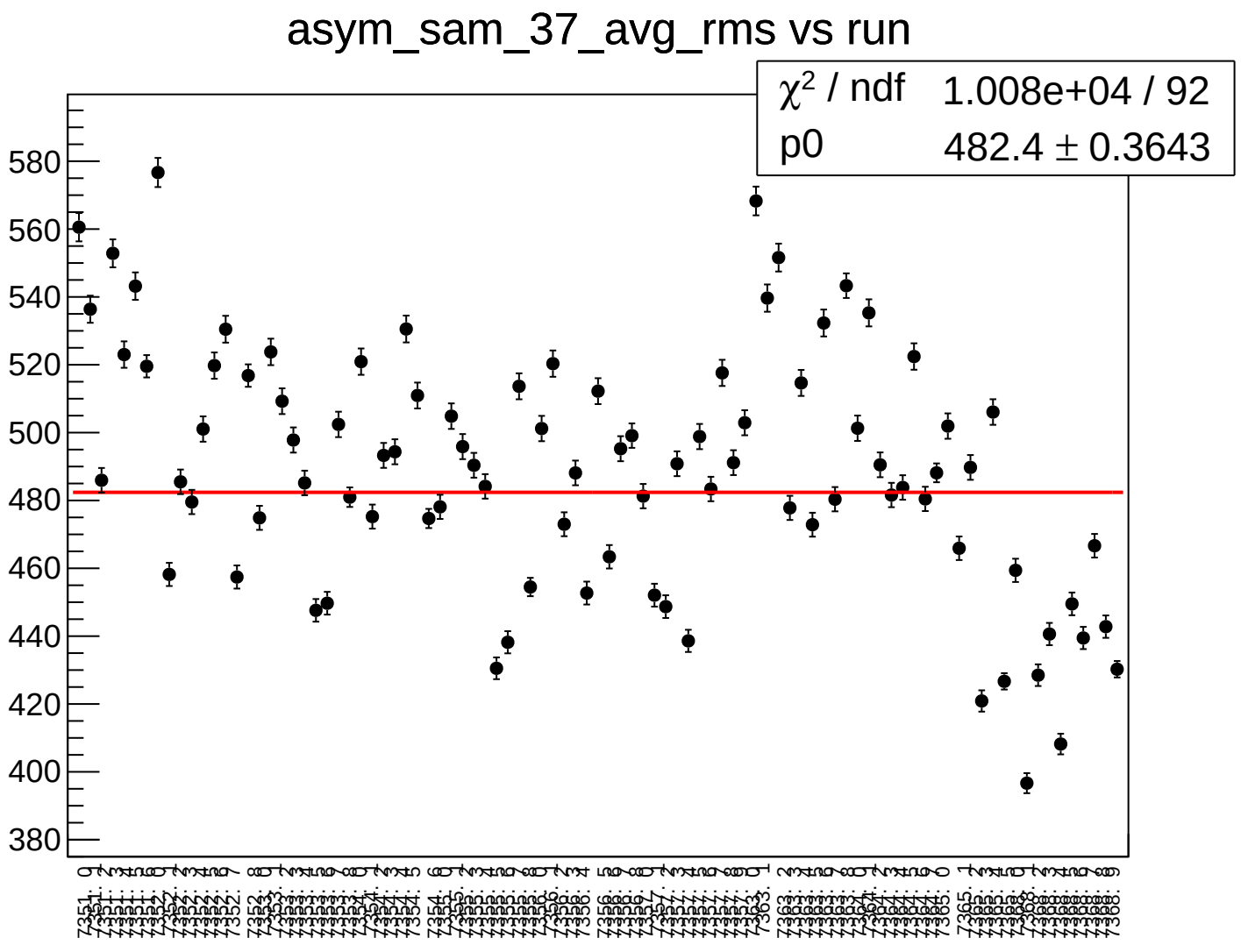

reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 9805 / 92
p0 69.05 ± 0.05214
85
80
75
70
65
60
55

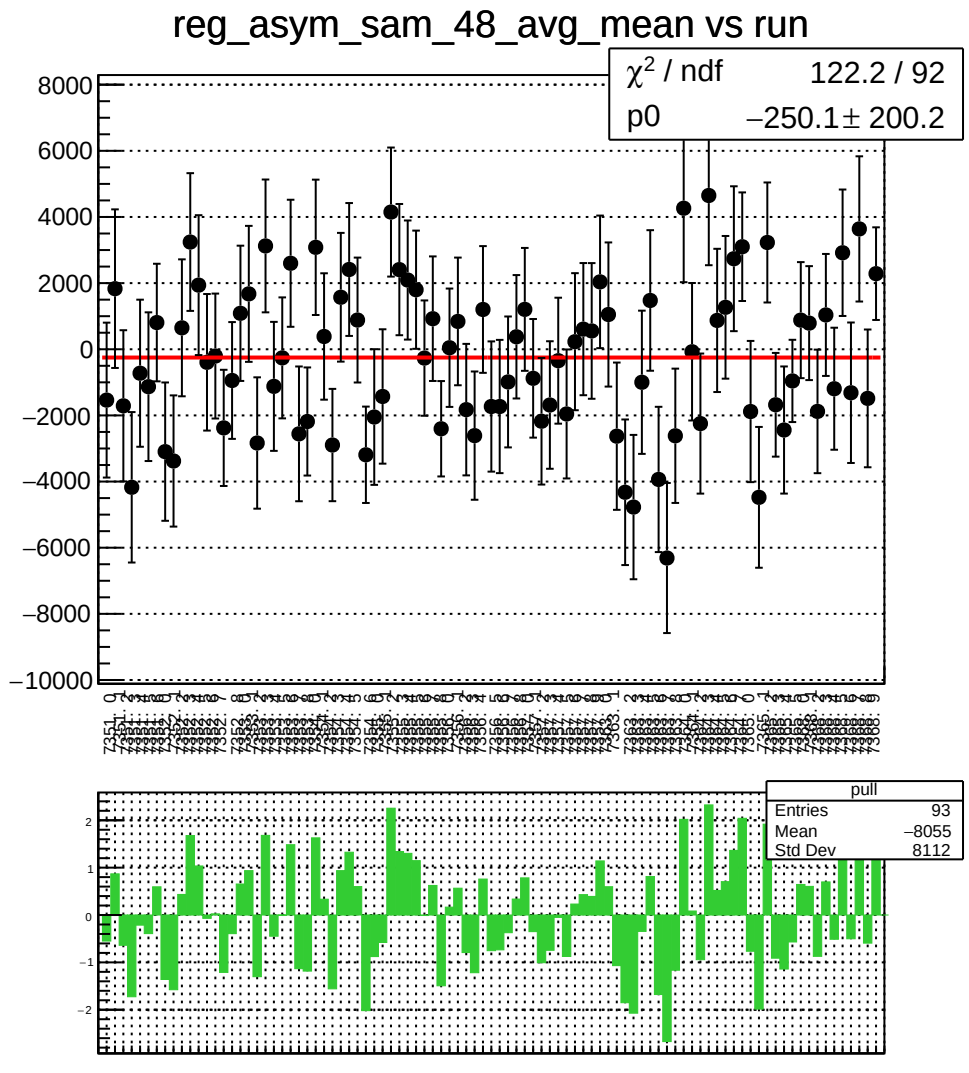

asym_sam_37_avg_correction_mean vs run
χ² / ndf 267.4 / 92
p0 556.5 ± 509.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −26.84
Std Dev 70.16
4
2
0
−2
−4
pull1D
Entries 93
Mean 0.02669
Std Dev 1.695
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

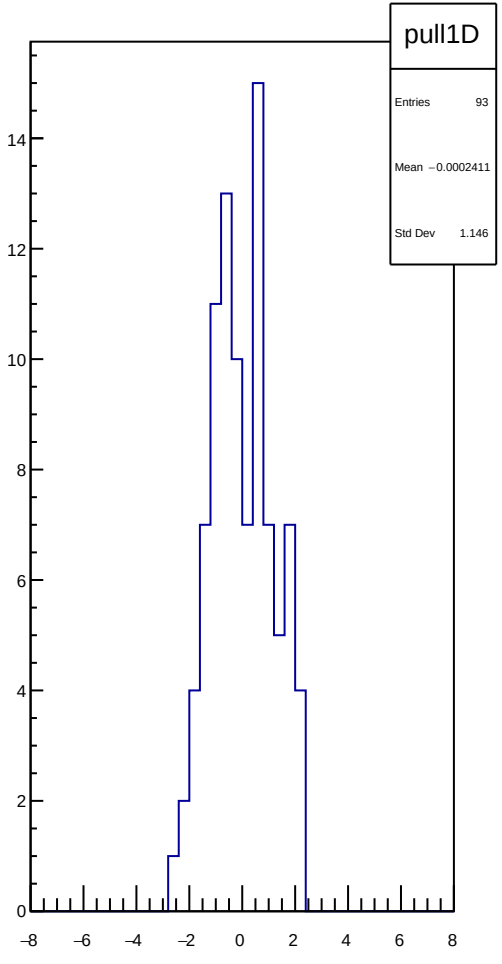

asym_sam_37_avg_correction_rms vs run
χ² / ndf 1.02e+04 / 92
p0 477.4 ± 0.3605
580
560
540
520
500
480
460
440
420
400
380

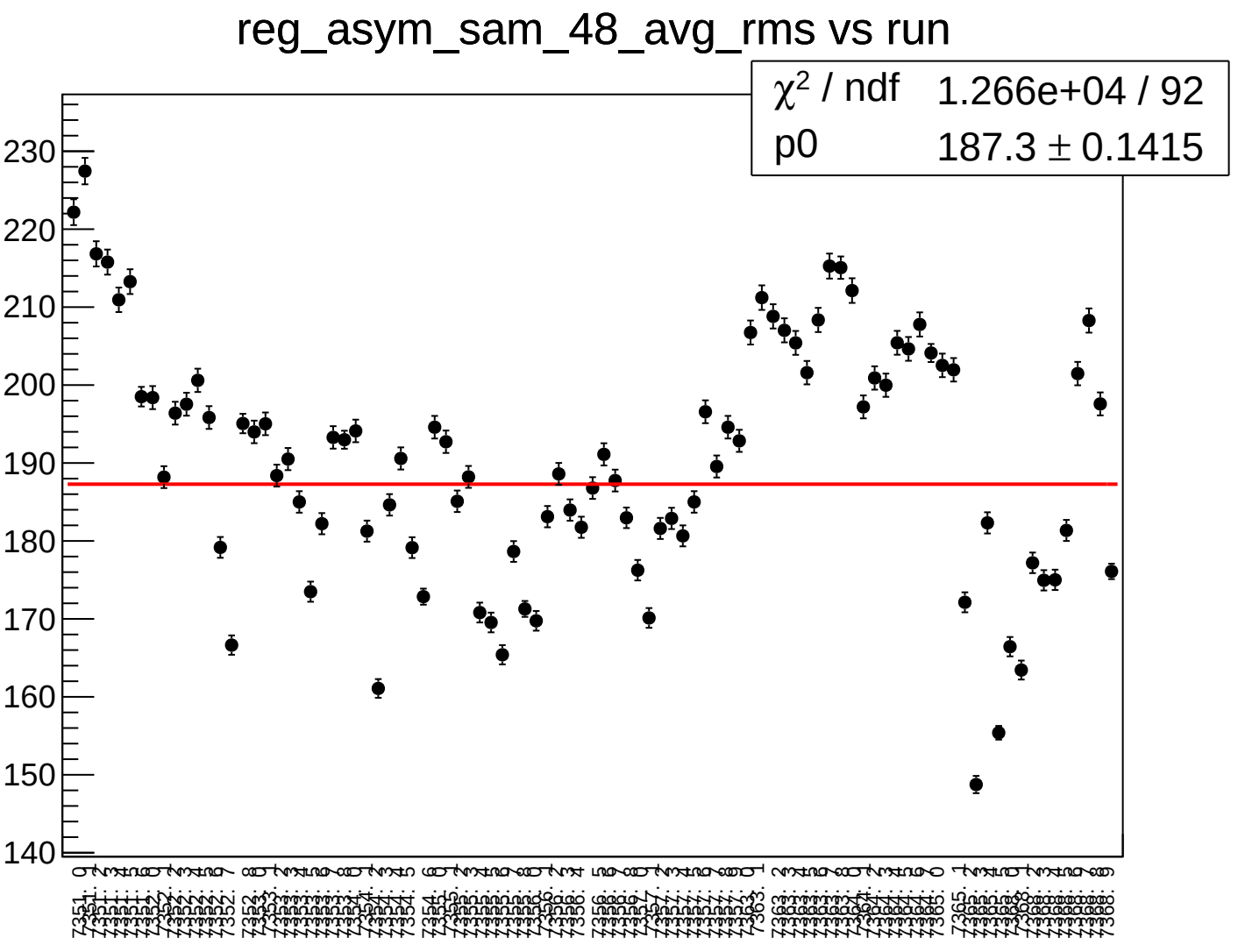

asym_sam_37_avg_mean vs run
χ² / ndf 284.6 / 92
p0 −671.8 ± 515.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −29.81
Std Dev 78.11
4
2
0
−2
−4

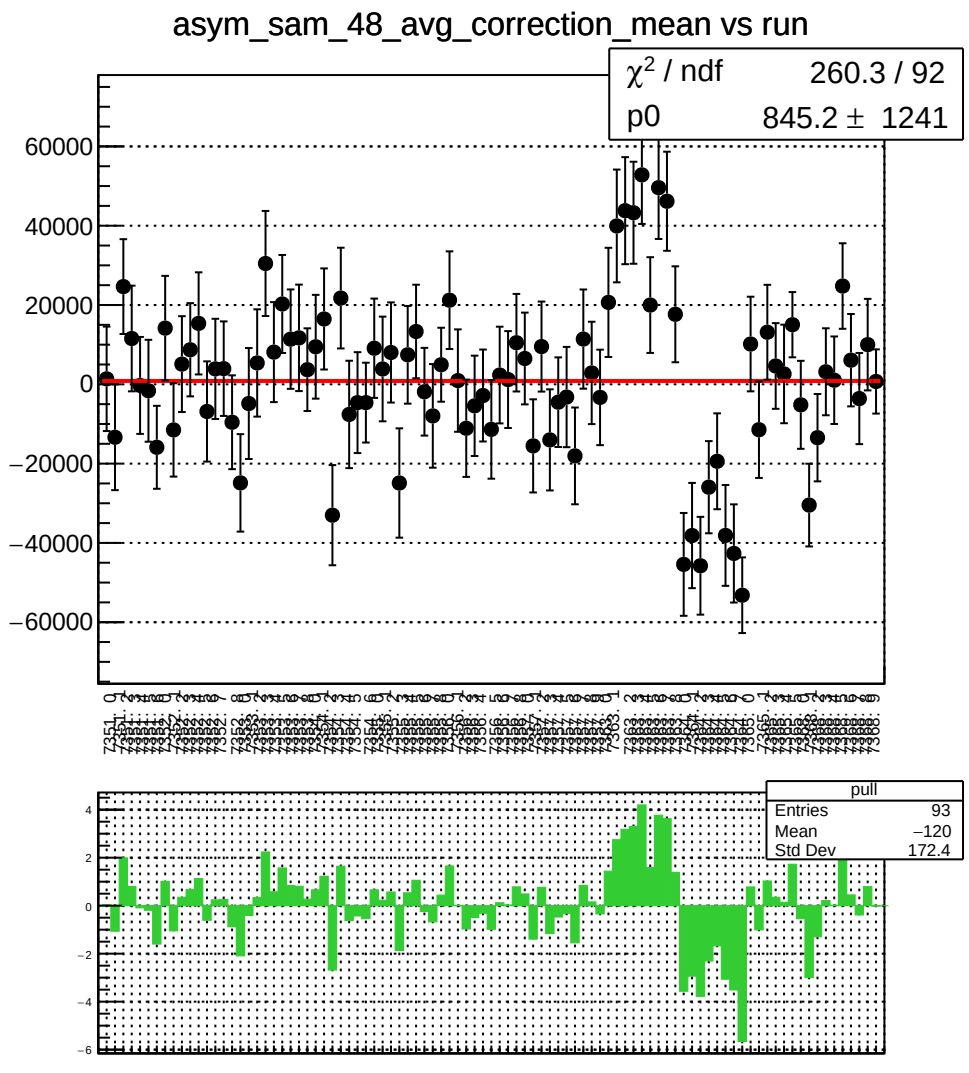

pull1D
Entries 93
Mean −0.02855
Std Dev 1.749
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

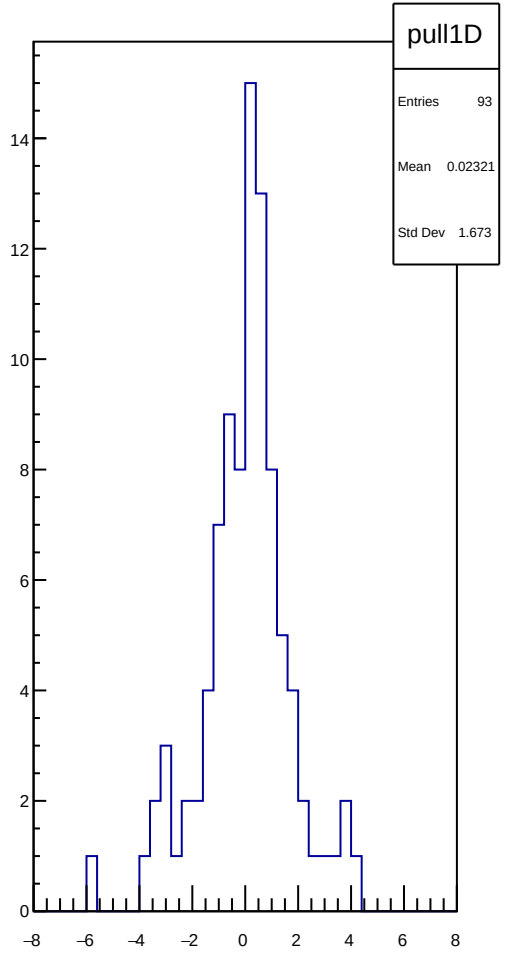

asym_sam_37_avg_rms vs run
χ² / ndf 1.008e+04 / 92
p0 482.4 ± 0.3643
580
560
540
520
500
480
460
440
420
400
380

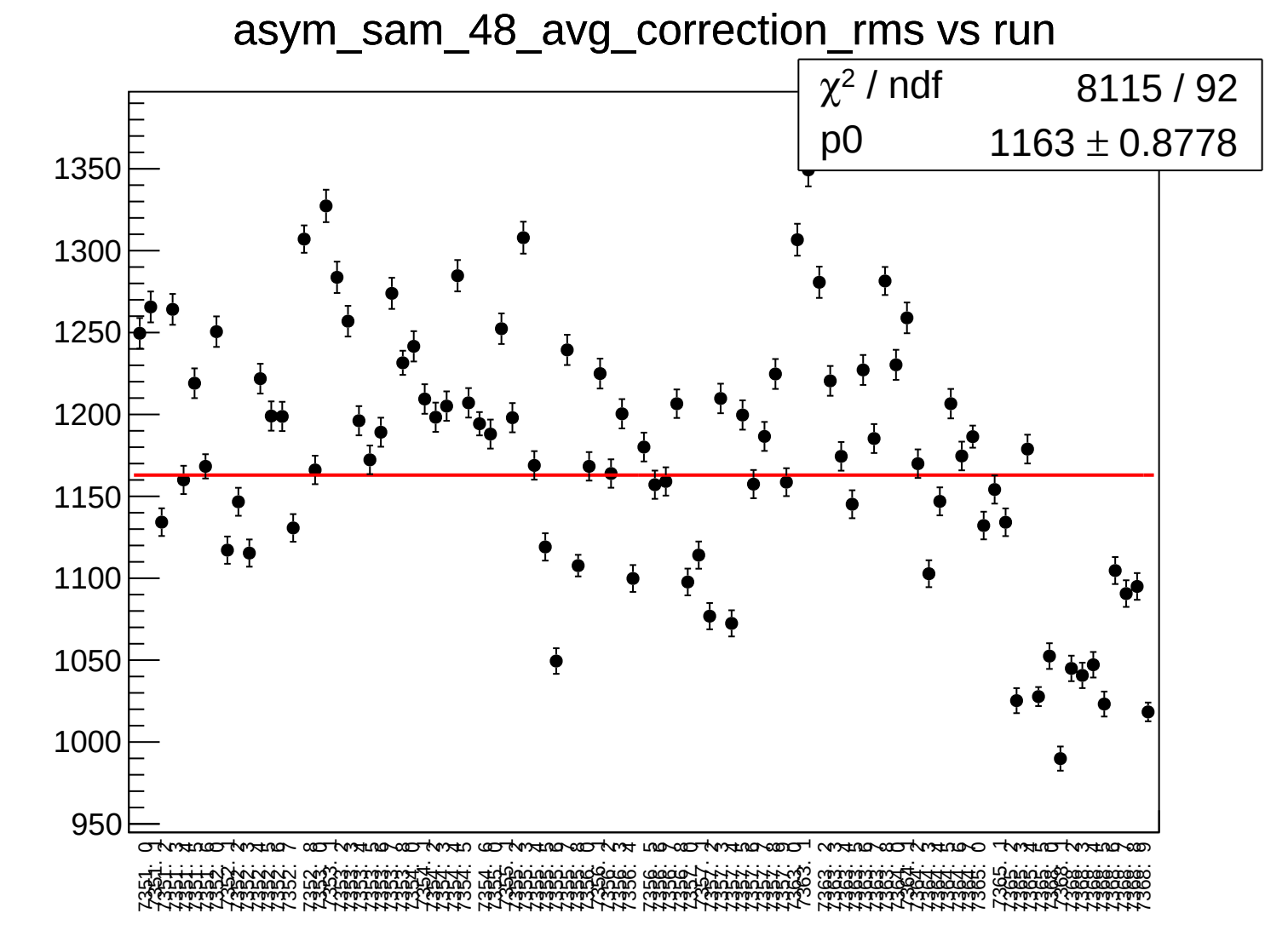

reg_asym_sam_48_avg_mean vs run
χ² / ndf 122.2 / 92
p0 −250.1± 200.2
pull
Entries 93
Mean −8055
Std Dev 8112

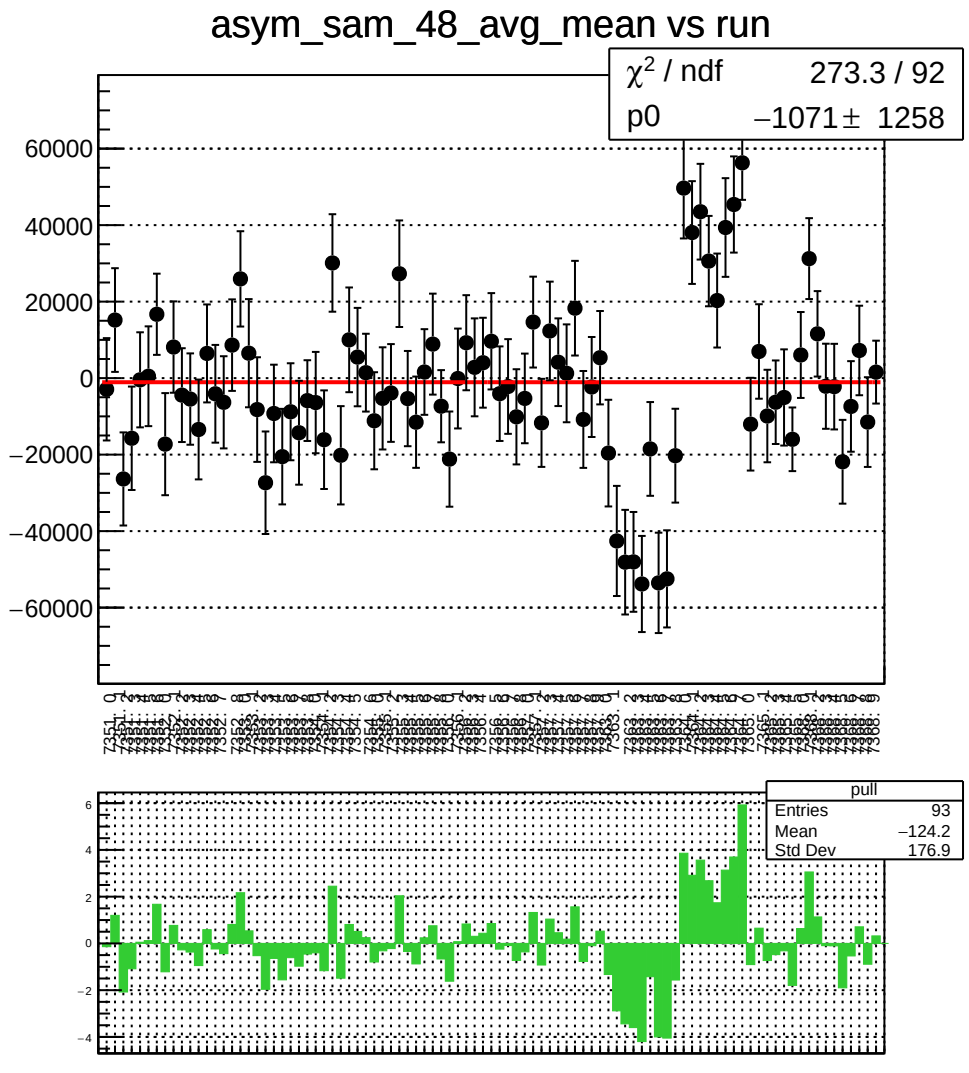

pull1D
Entries 93
Mean −0.0002411
Std Dev 1.146

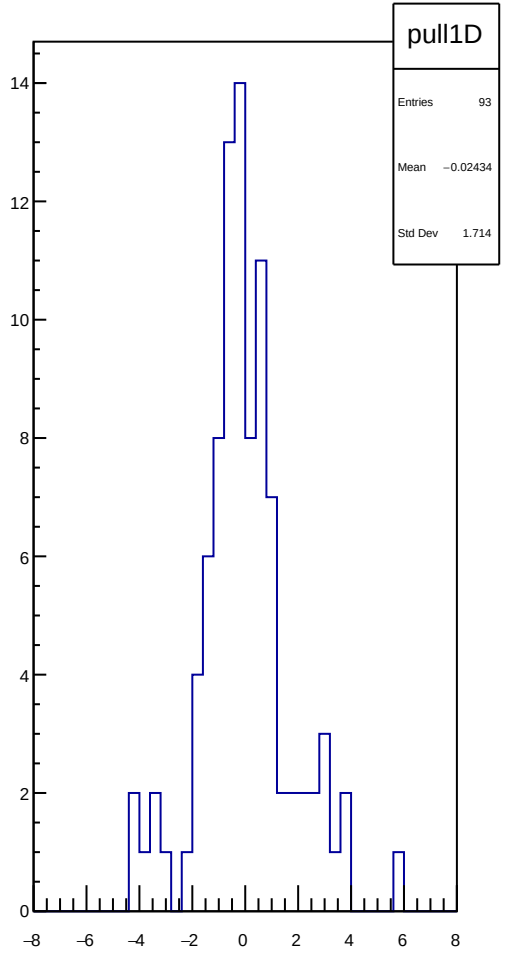

reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.266e+04 / 92
p0 187.3 ± 0.1415
230
220
210
200
190
180
170
160
150
140

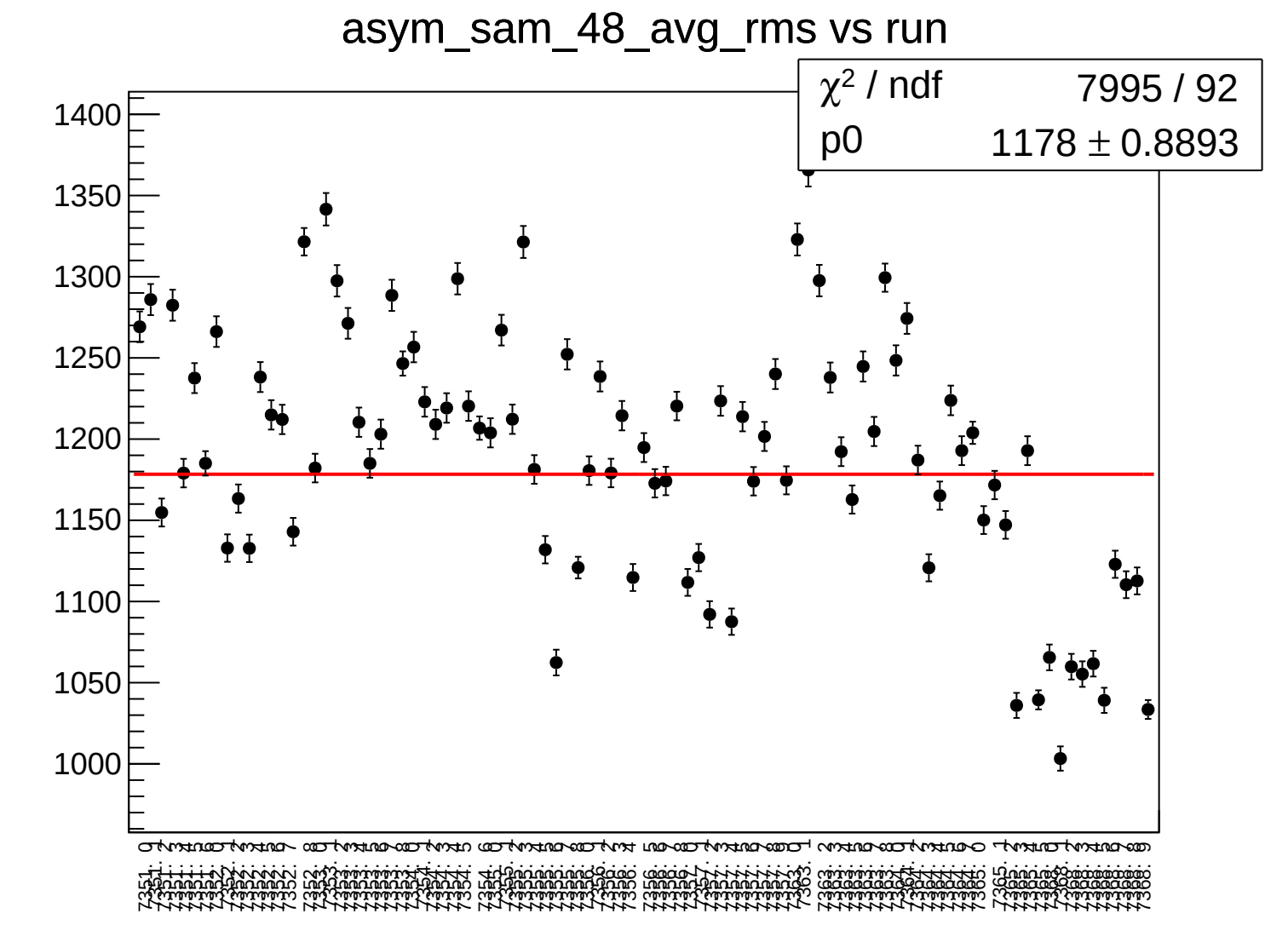

asym_sam_48_avg_correction_mean vs run
χ² / ndf 260.3 / 92
p0 845.2 ± 1241
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −120
Std Dev 172.4
4
2
0
−2
−4
−6

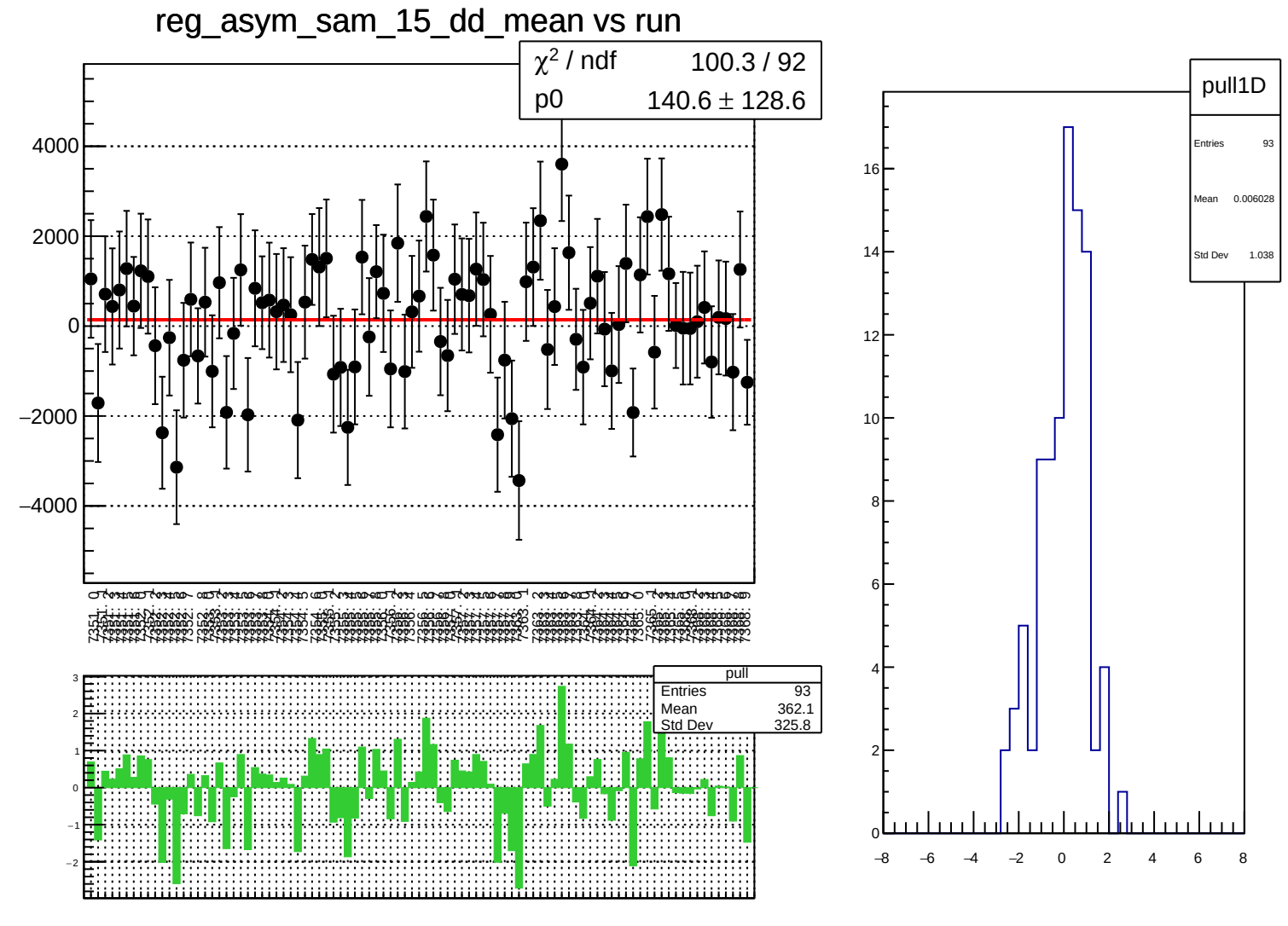

pull1D
Entries 93
Mean 0.02321
Std Dev 1.673
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

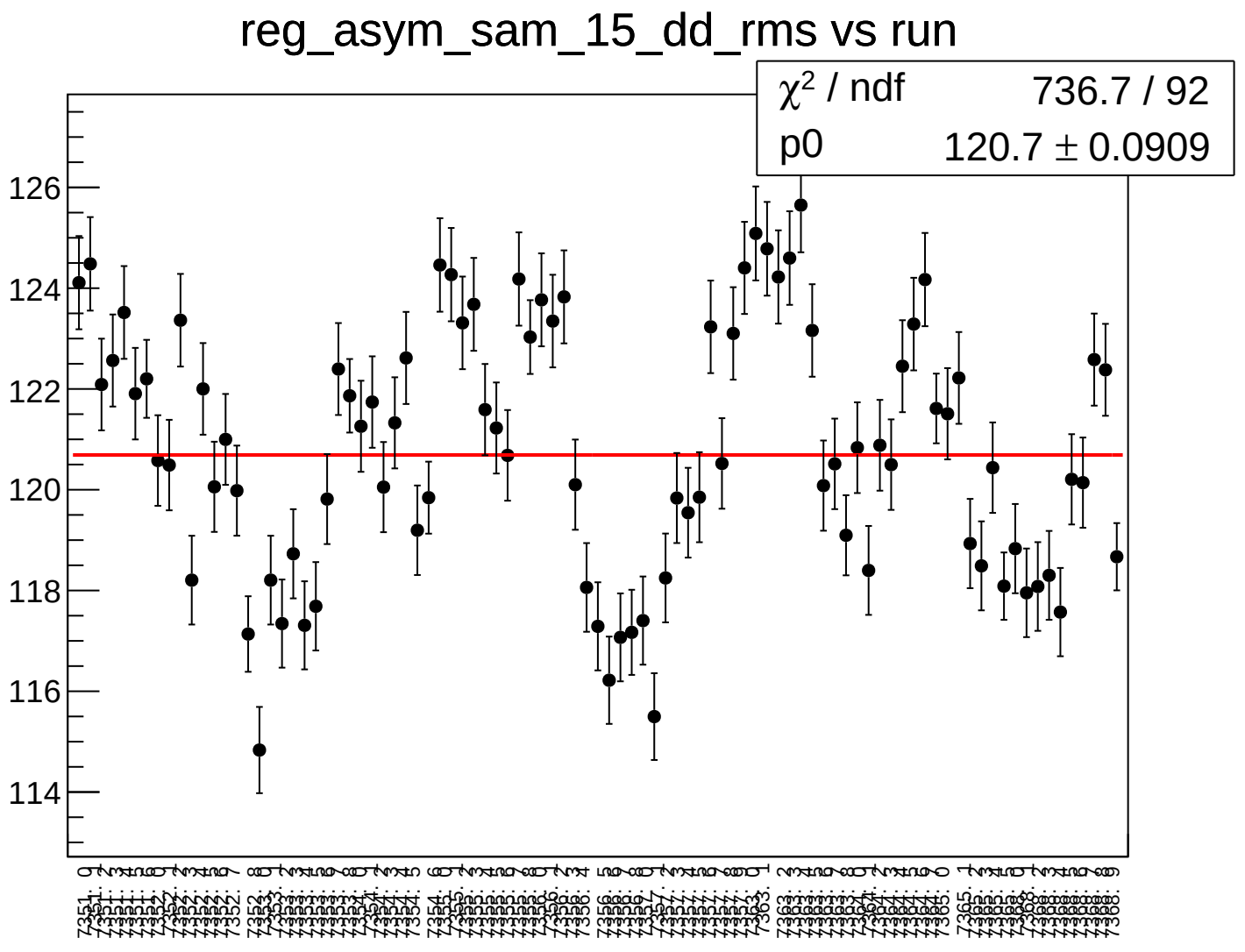

asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 8115 / 92
p0 1163 ± 0.8778
1350
1300
1250
1200
1150
1100
1050
1000
950

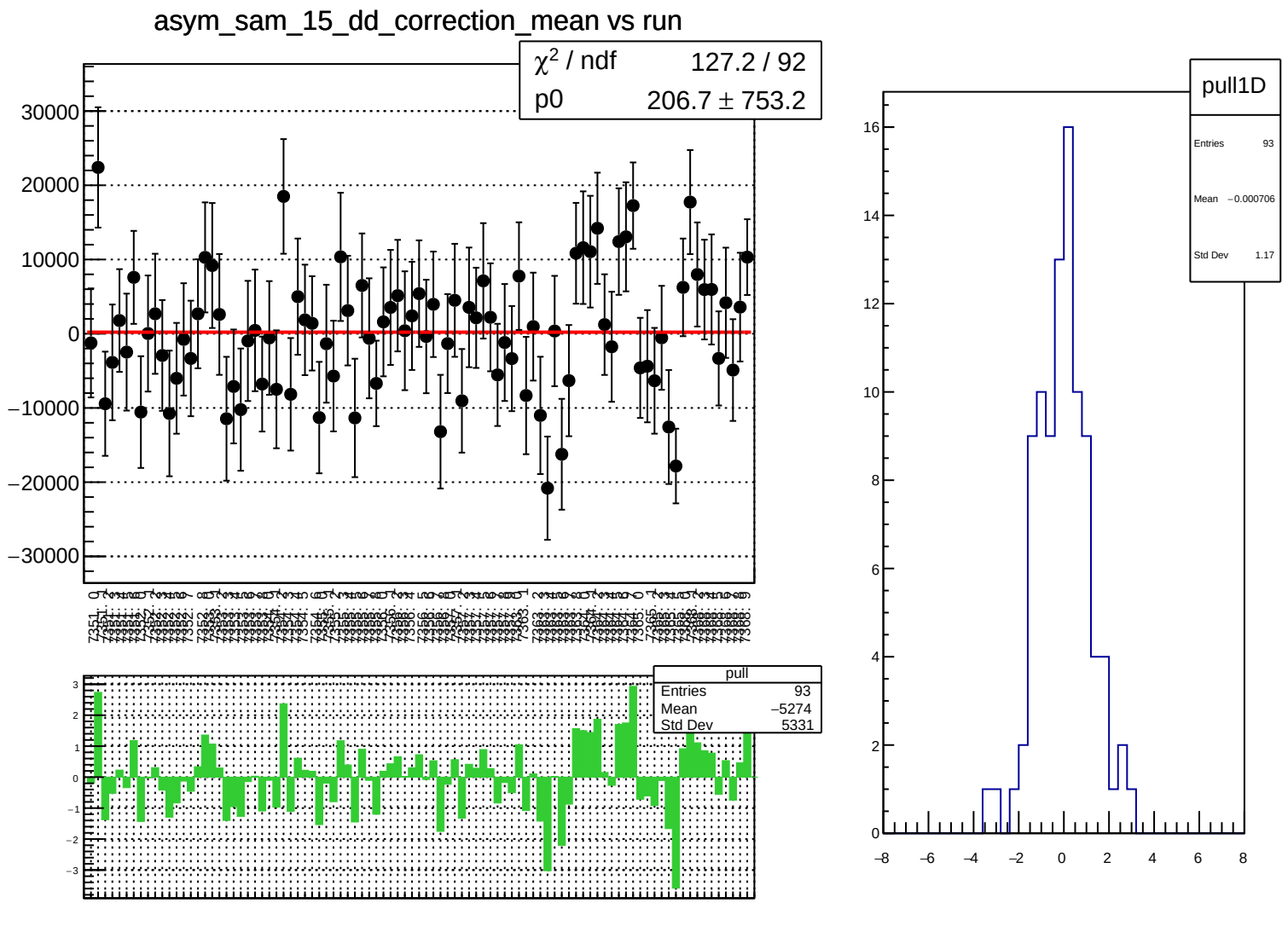

asym_sam_48_avg_mean vs run
χ² / ndf 273.3 / 92
p0 −1071 ± 1258
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −124.2
Std Dev 176.9
6
4
2
0
−2
−4

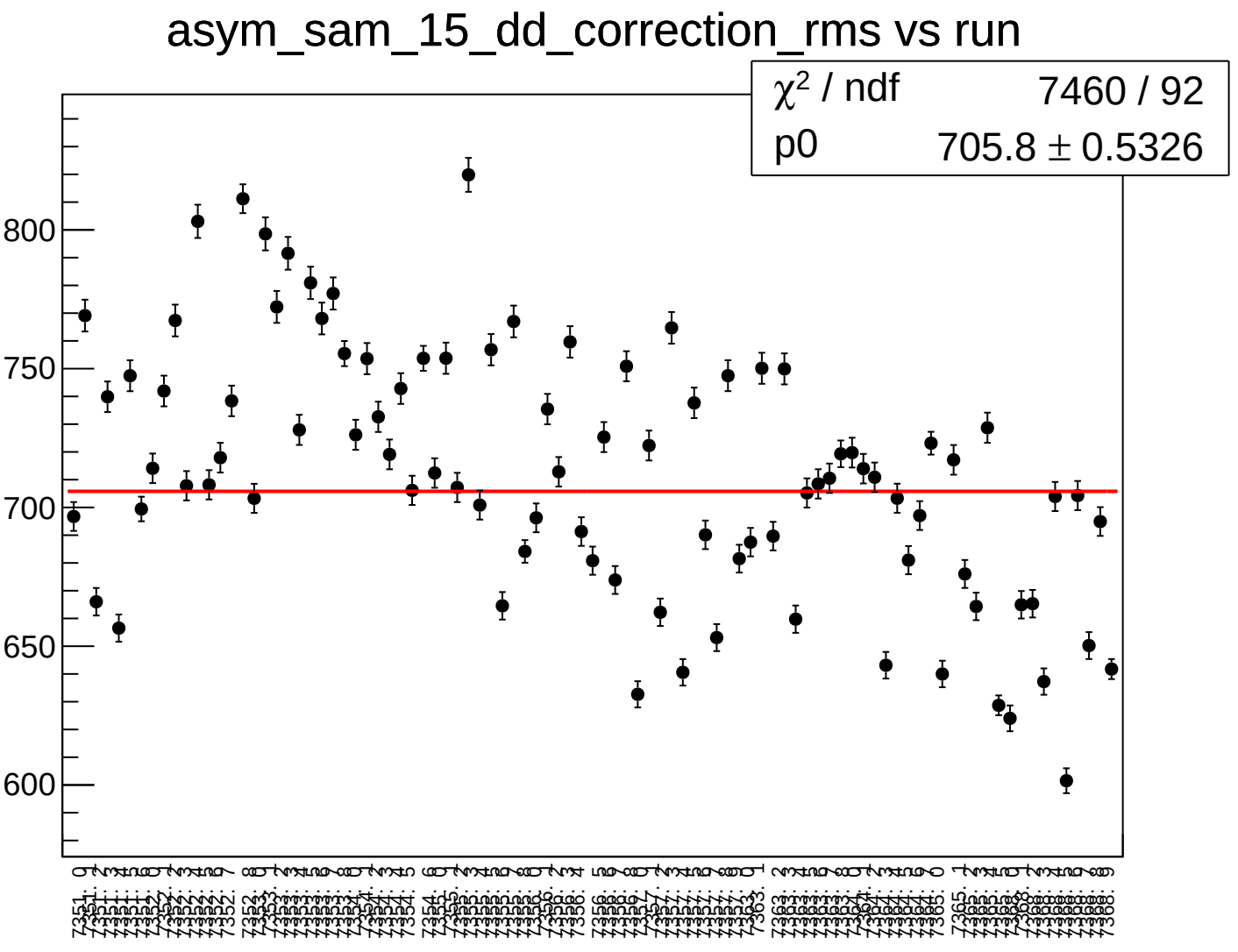

pull1D
Entries 93
Mean −0.02434
Std Dev 1.714
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

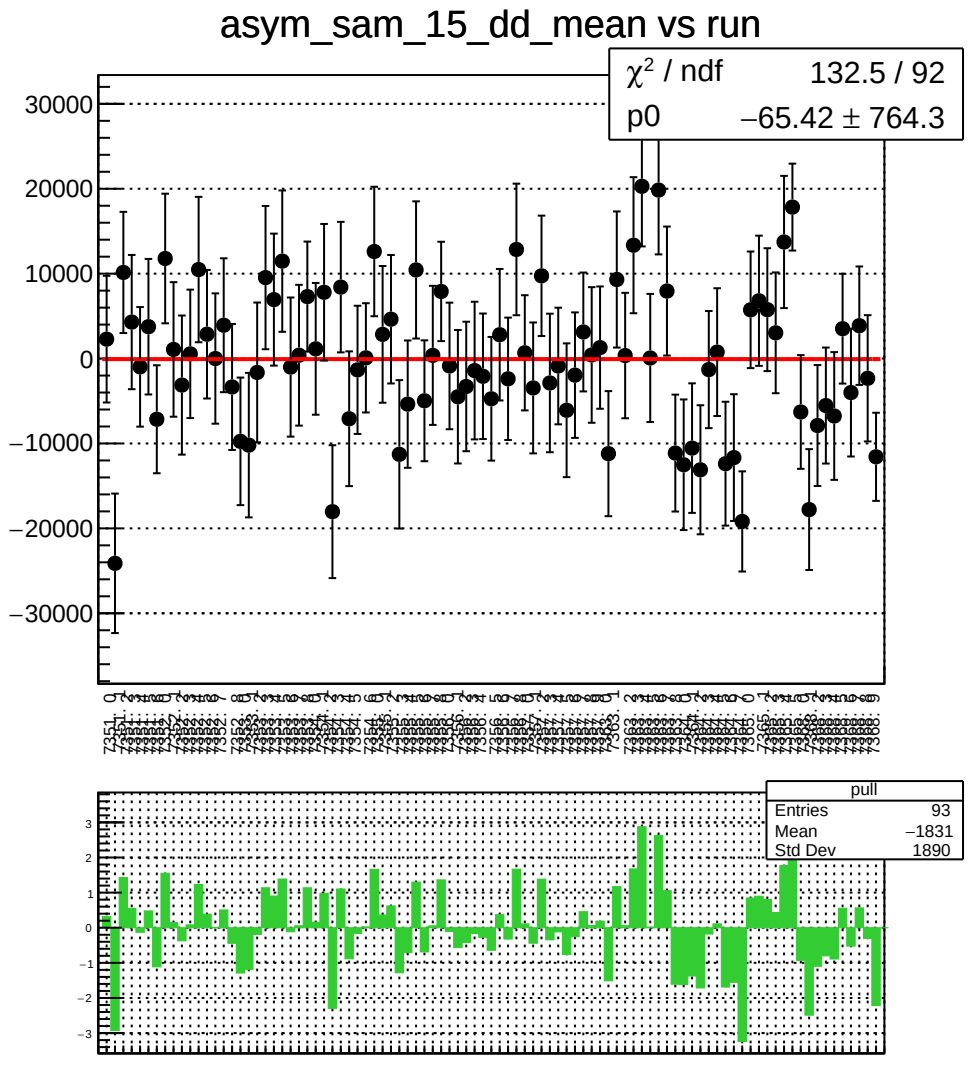

asym_sam_48_avg_rms vs run
χ^2 / ndf 7995 / 92
p0 1178 ± 0.8893
1400
1350
1300
1250
1200
1150
1100
1050
1000

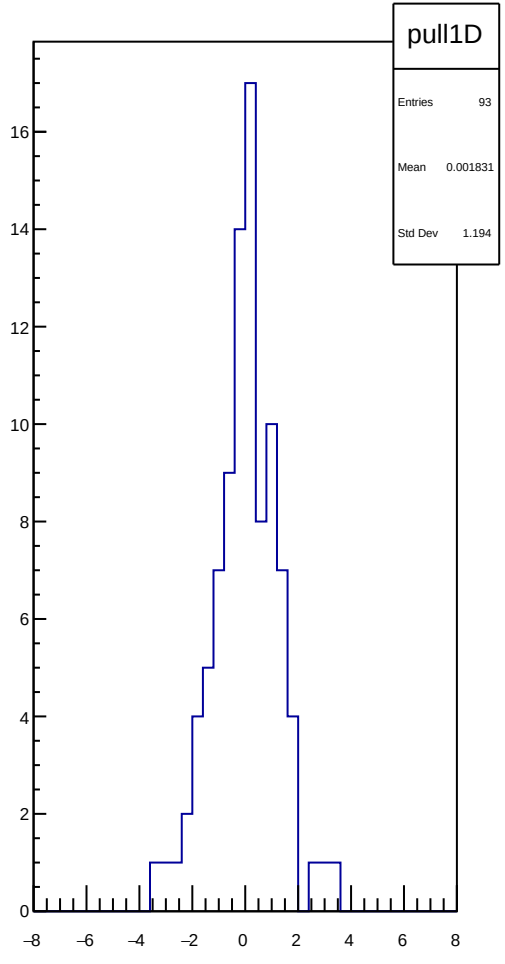

reg_asym_sam_15_dd_mean vs run
χ² / ndf 100.3 / 92
p0 140.6 ± 128.6
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 362.1
Std Dev 325.8
pull1D
Entries 93
Mean 0.006028
Std Dev 1.038

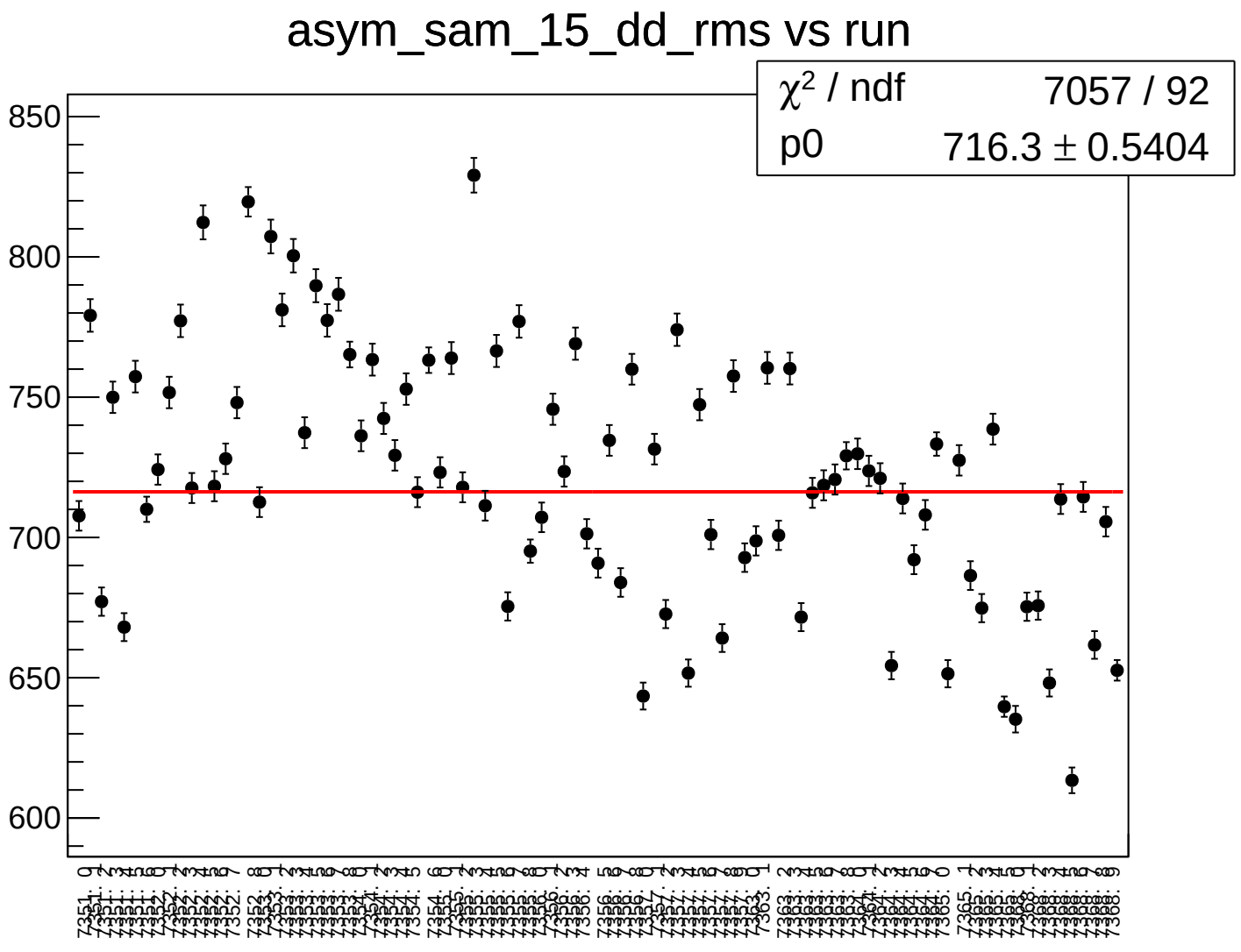

reg_asym_sam_15_dd_rms vs run
χ^2 / ndf 736.7 / 92
p0 120.7 ± 0.0909
126
124
122
120
118
116
114

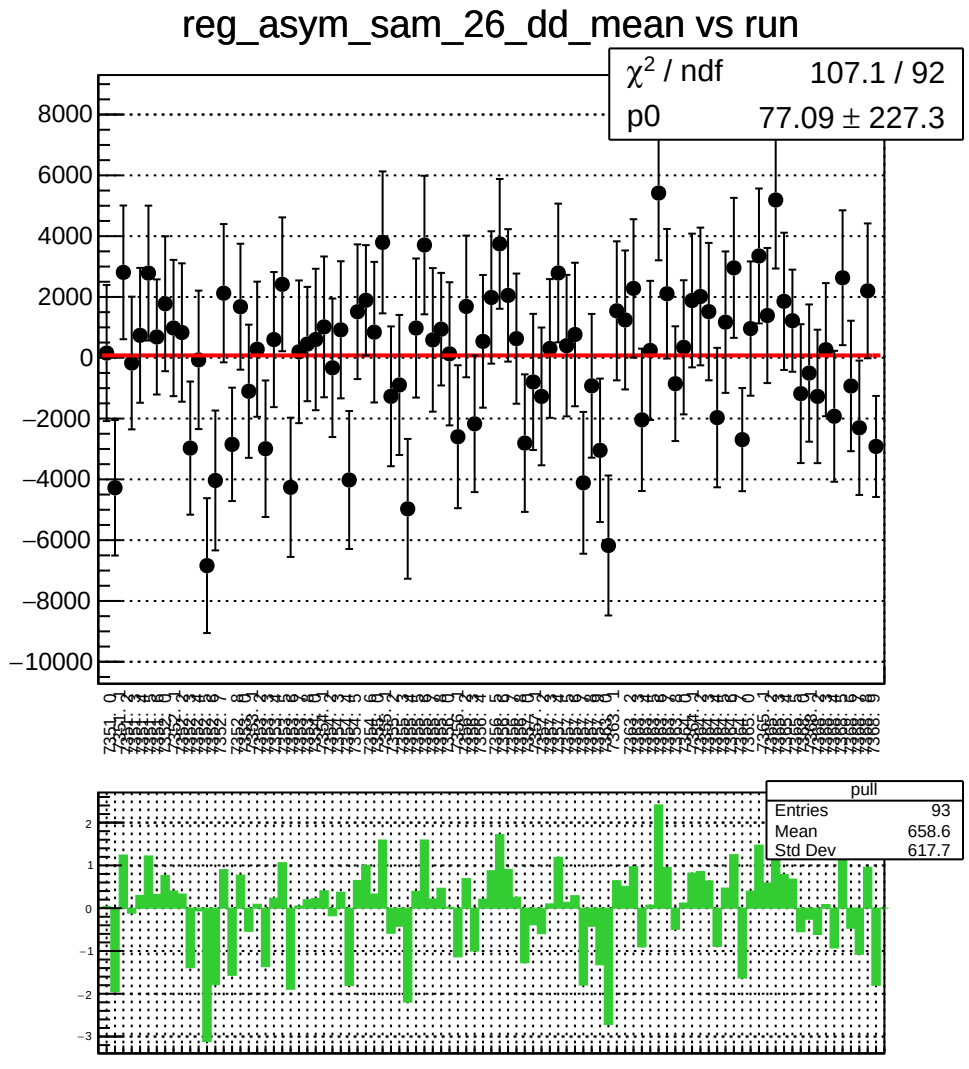

asym_sam_15_dd_correction_mean vs run
χ² / ndf 127.2 / 92
p0 206.7 ± 753.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −5274
Std Dev 5331
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.000706
Std Dev 1.17
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

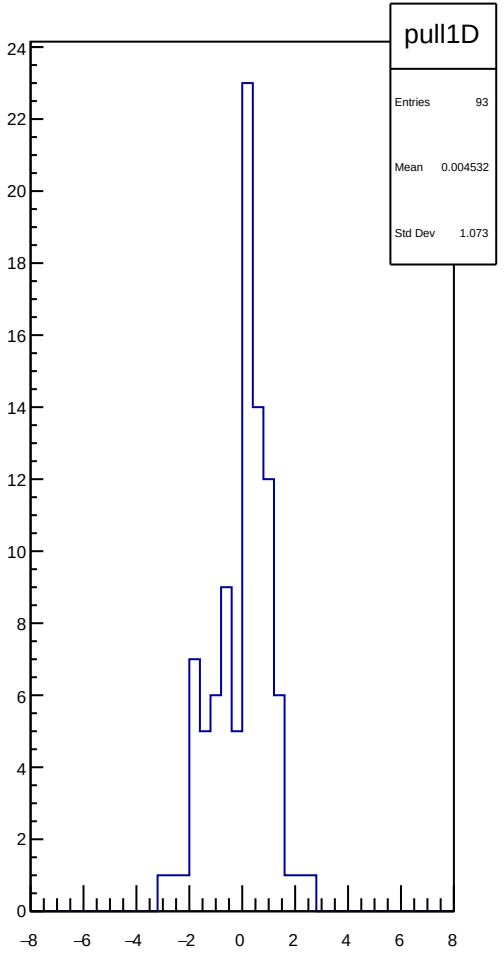

asym_sam_15_dd_correction_rms vs run
χ² / ndf 7460 / 92
p0 705.8 ± 0.5326
800
750
700
650
600

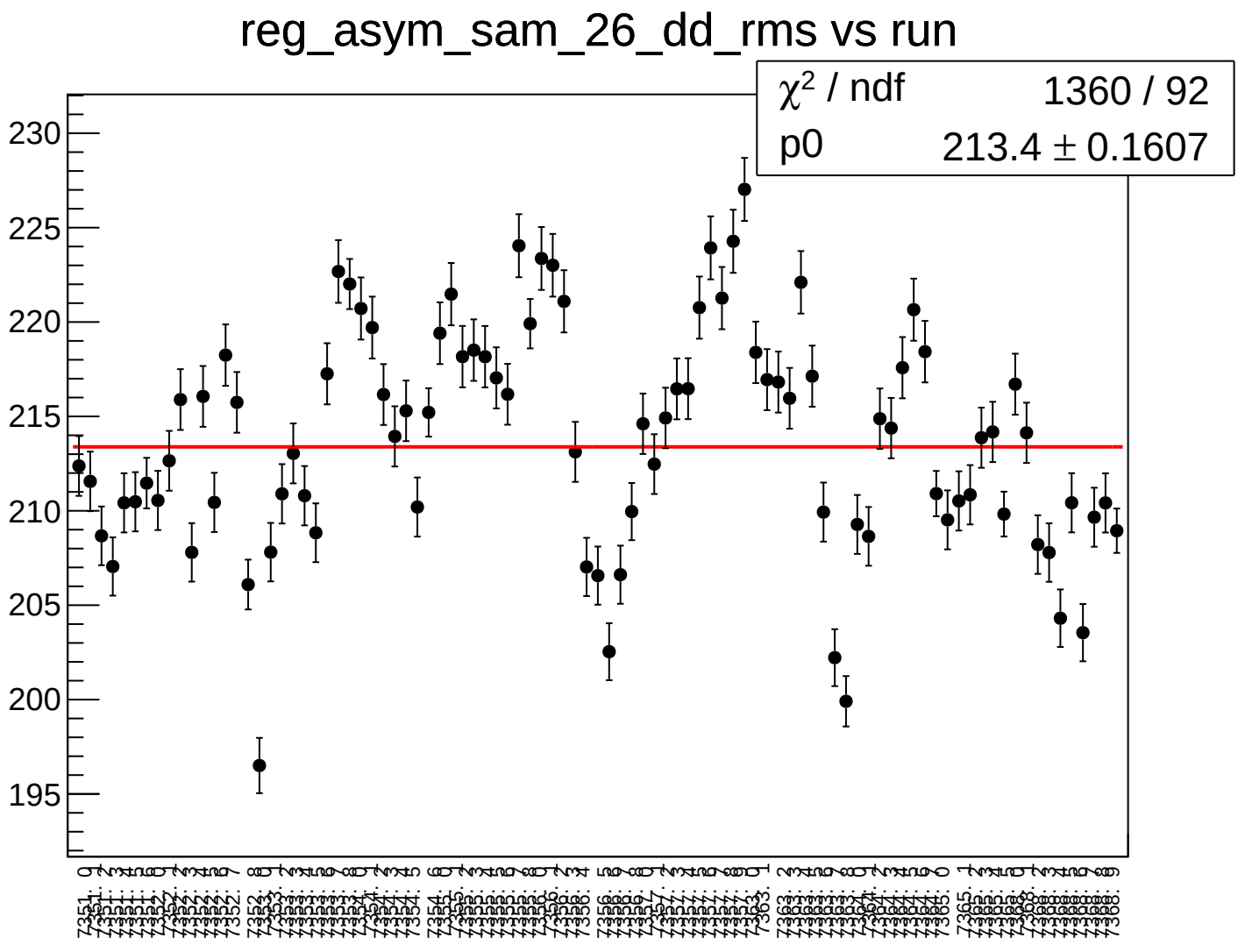

asym_sam_15_dd_mean vs run
χ² / ndf 132.5 / 92
p0 −65.42 ± 764.3
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −1831
Std Dev 1890
3
2
1
0
−1
−2
−3

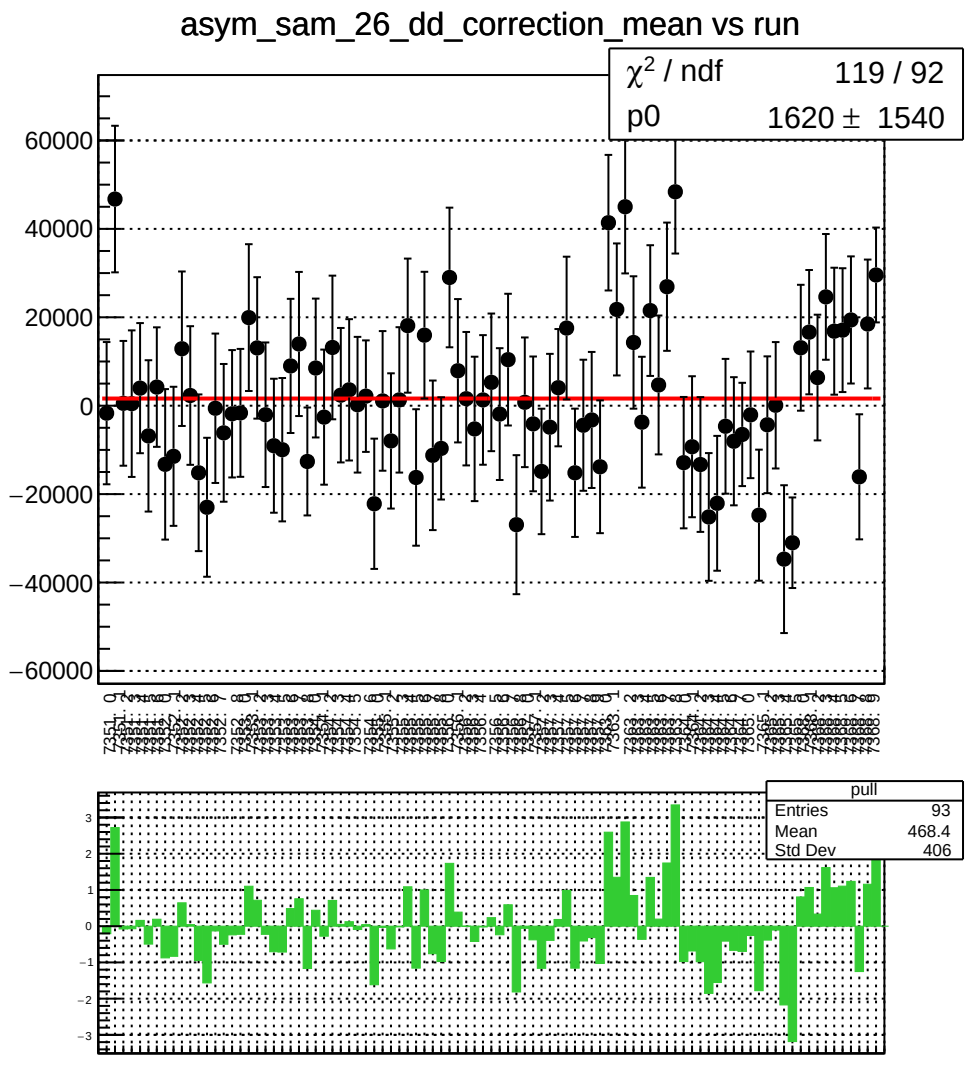

pull1D
Entries 93
Mean 0.001831
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

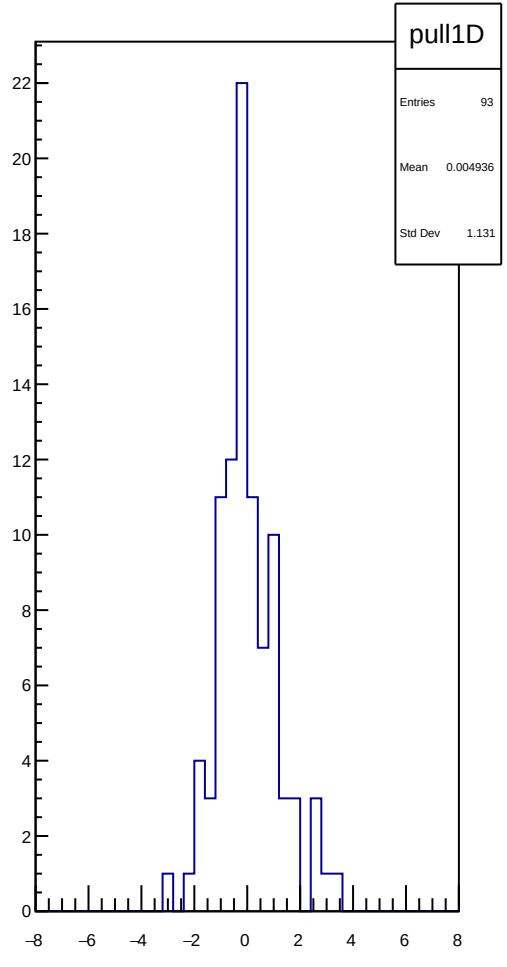

asym_sam_15_dd_rms vs run
χ² / ndf 7057 / 92
p0 716.3 ± 0.5404
850
800
750
700
650
600

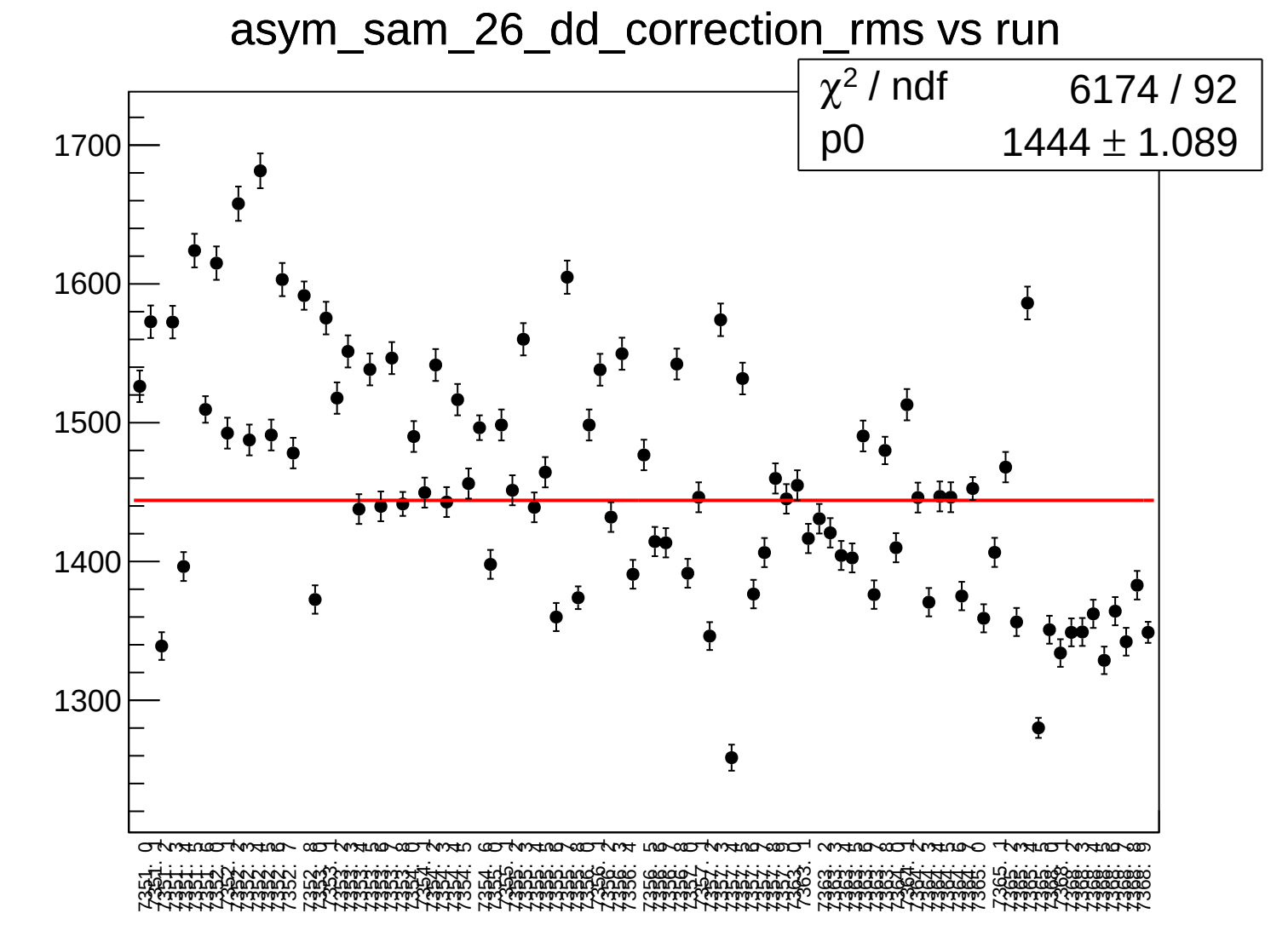

reg_asym_sam_26_dd_mean vs run
χ² / ndf 107.1 / 92
p0 77.09 ± 227.3
pull
Entries 93
Mean 658.6
Std Dev 617.7

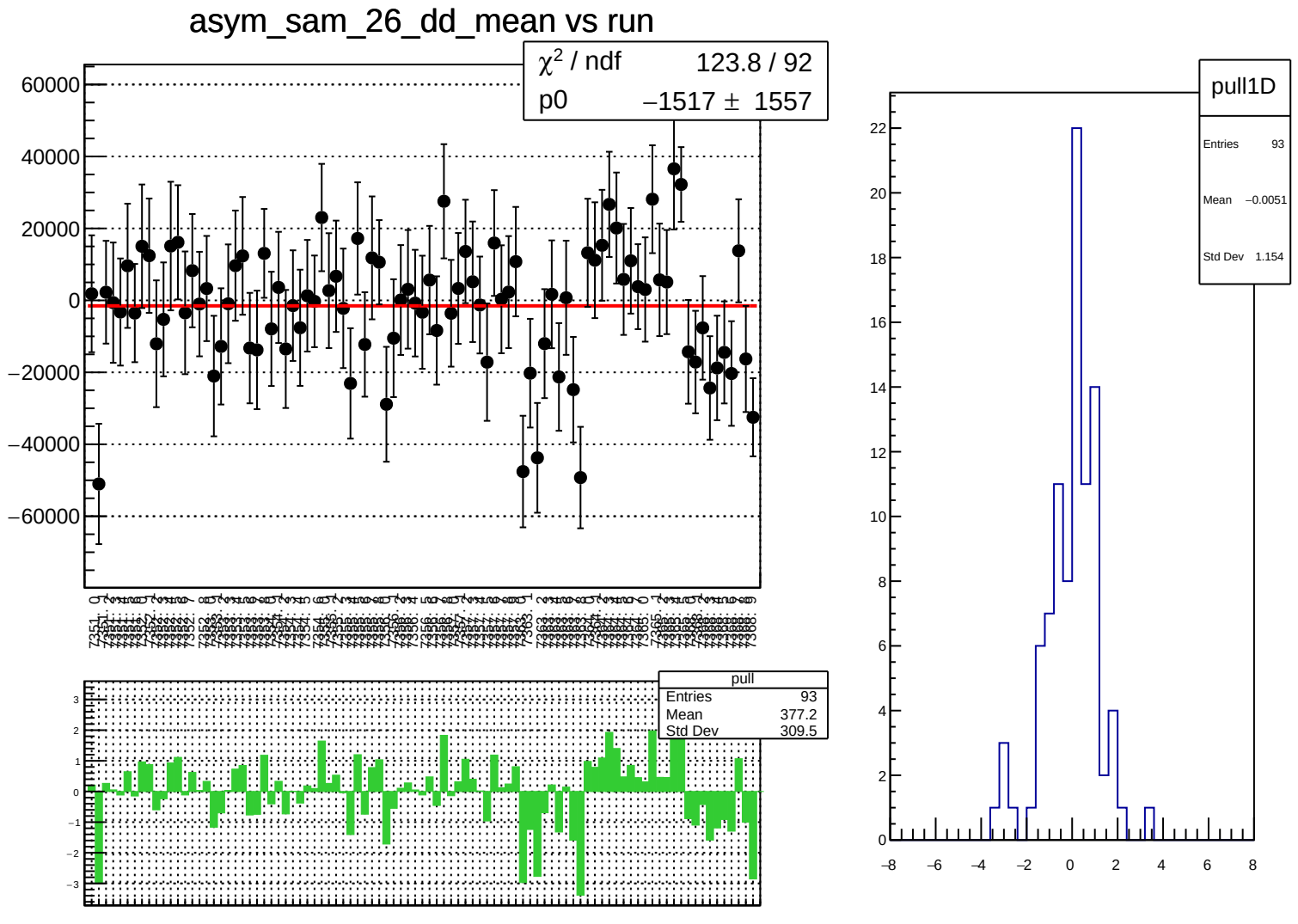

pull1D
Entries 93
Mean 0.004532
Std Dev 1.073

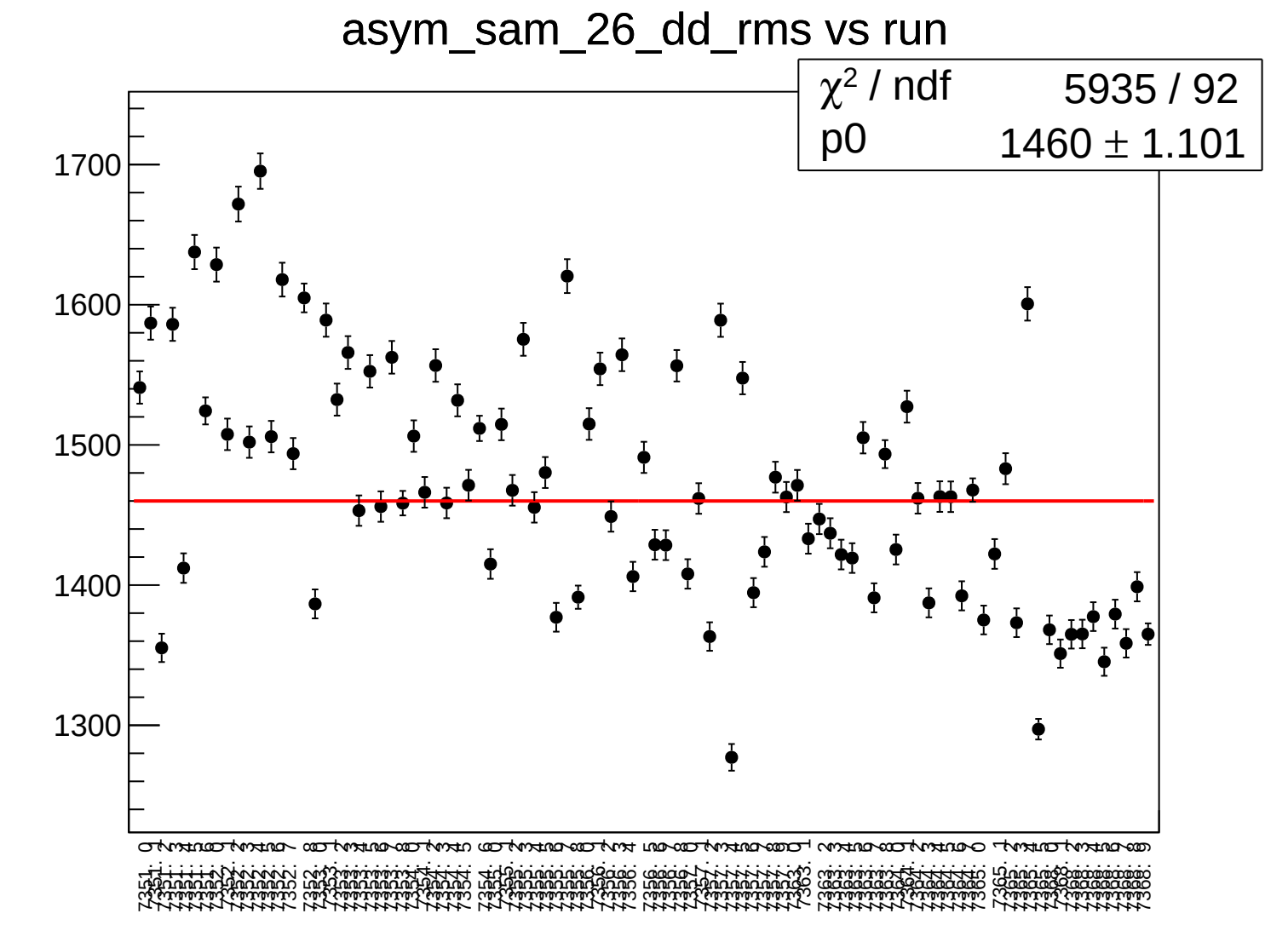

reg_asym_sam_26_dd_rms vs run
χ^2 / ndf 1360 / 92
p0 213.4 ± 0.1607
230
225
220
215
210
205
200
195

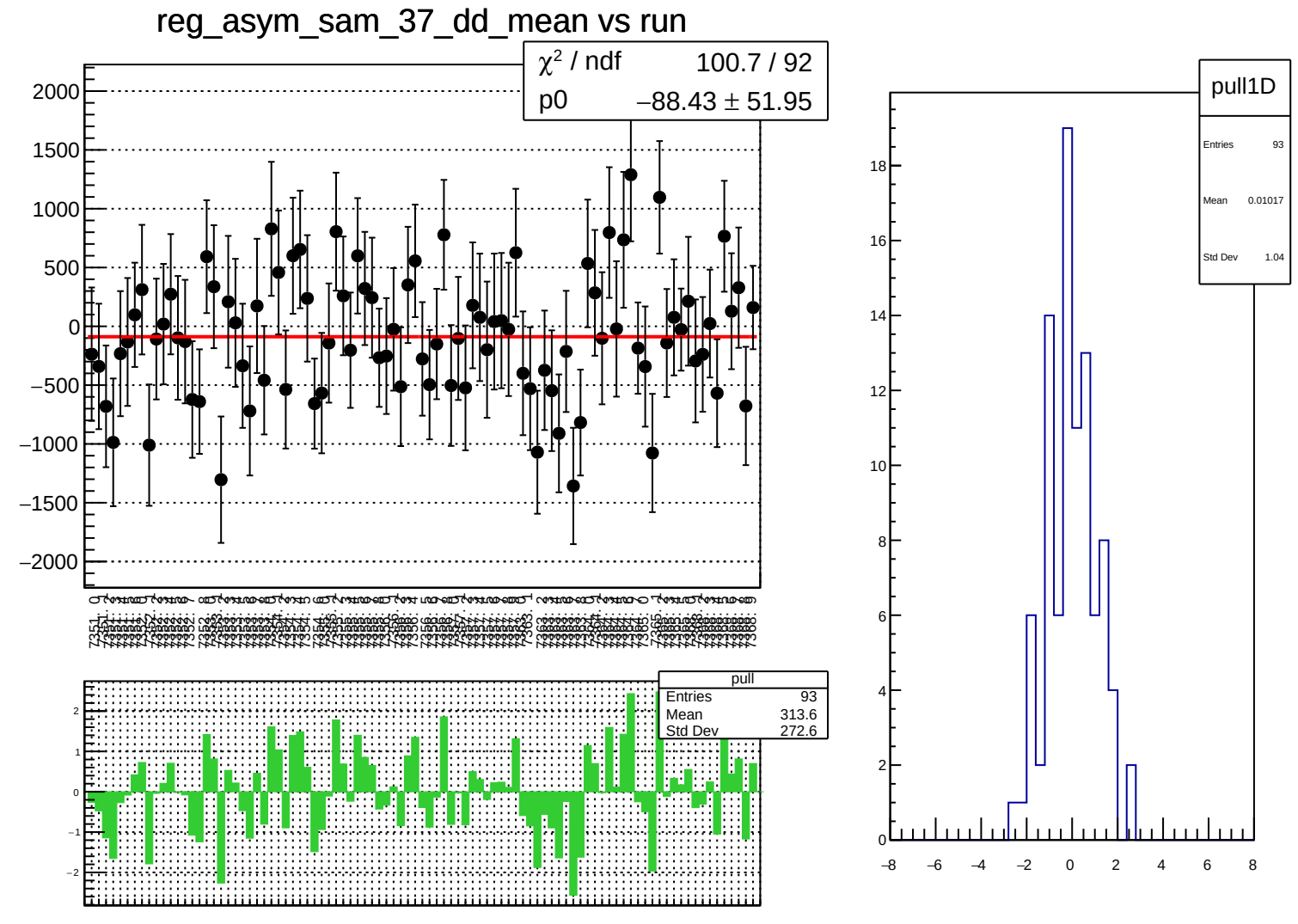

asym_sam_26_dd_correction_mean vs run
χ² / ndf 119 / 92
p0 1620 ± 1540
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 468.4
Std Dev 406
3
2
1
0
−1
−2
−3

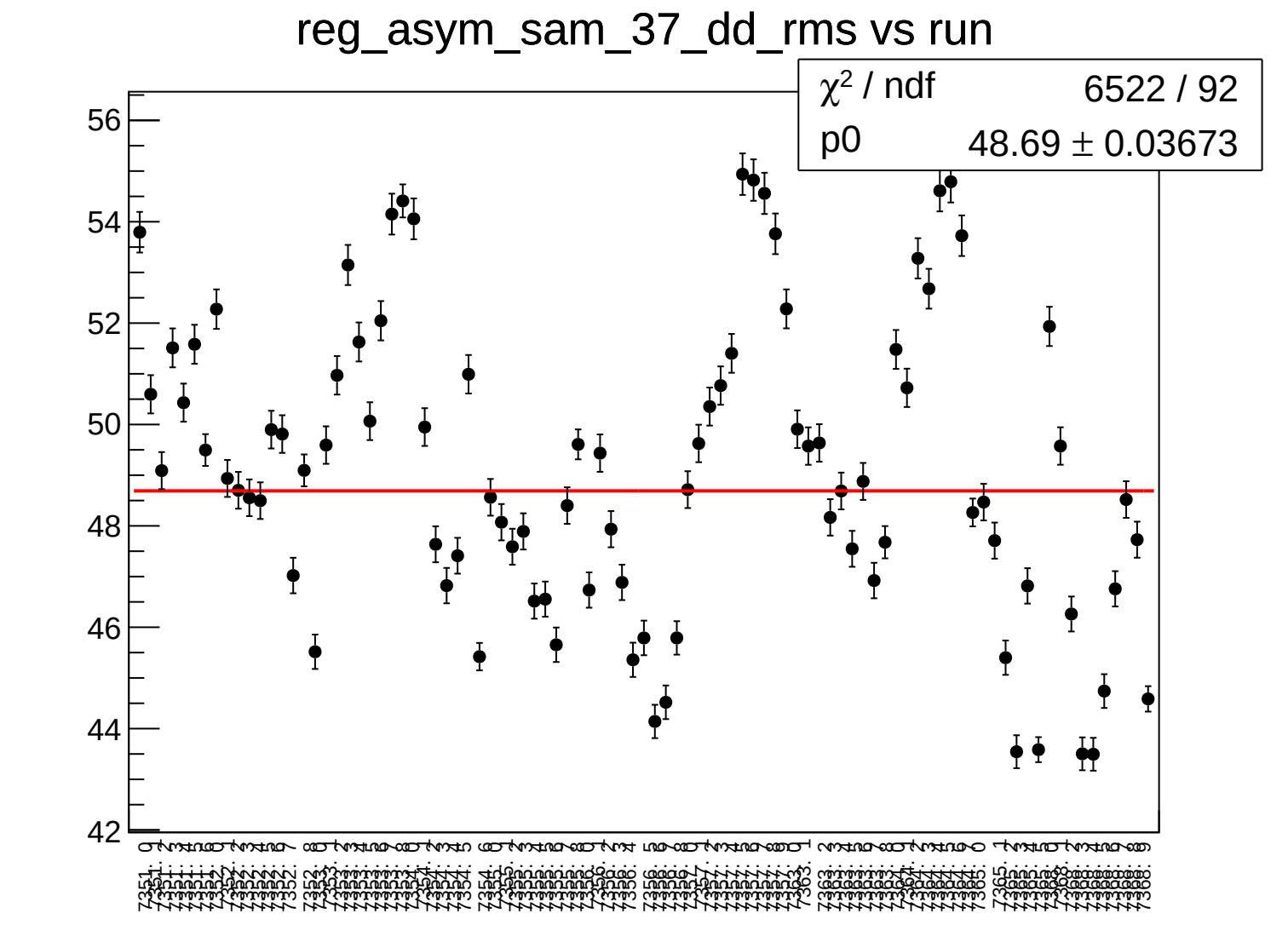

pull1D
Entries 93
Mean 0.004936
Std Dev 1.131
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

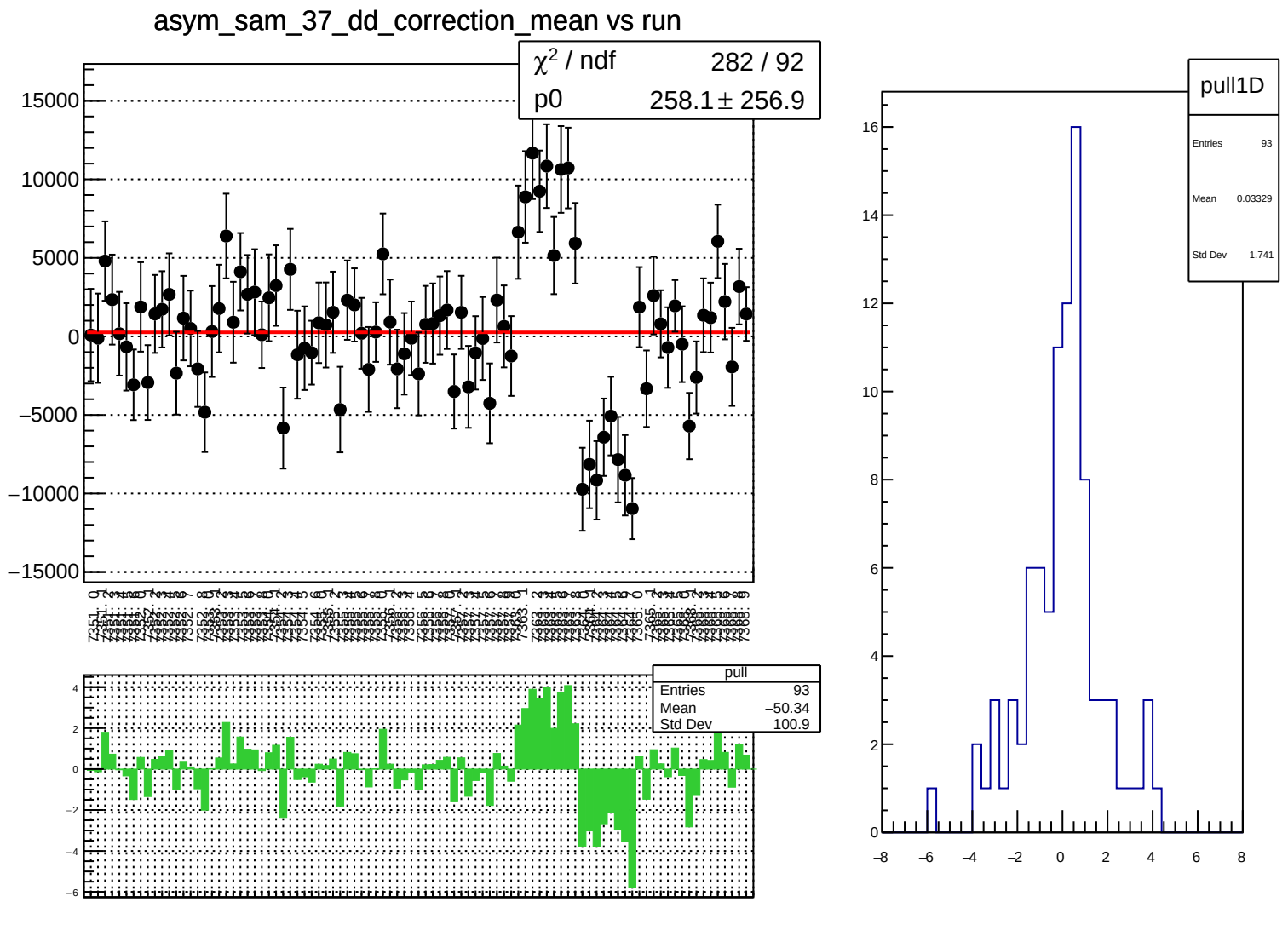

asym_sam_26_dd_correction_rms vs run
χ² / ndf 6174 / 92
p0 1444 ± 1.089
1700
1600
1500
1400
1300

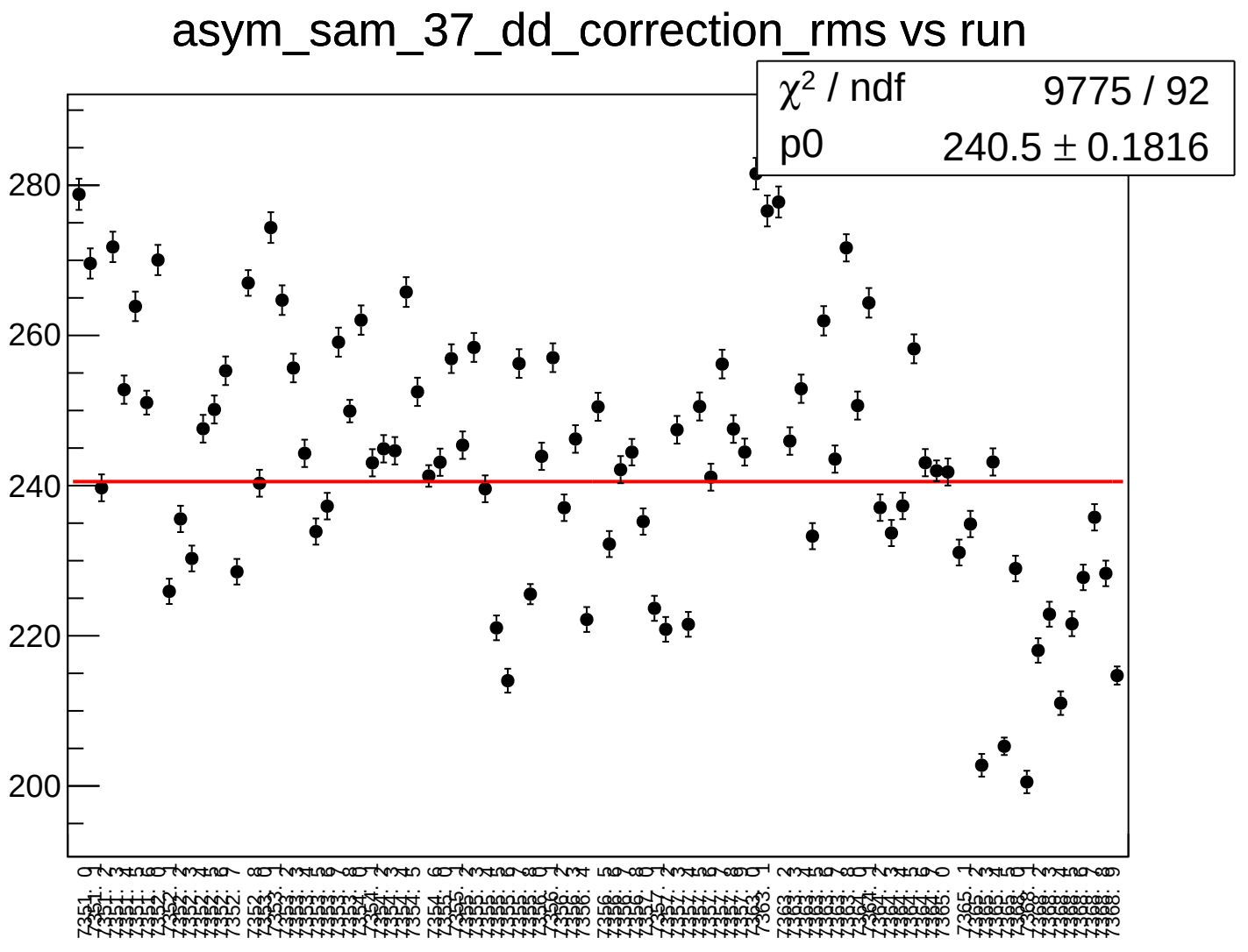

asym_sam_26_dd_mean vs run
χ² / ndf 123.8 / 92
p0 −1517 ± 1557
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean 377.2
Std Dev 309.5
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.0051
Std Dev 1.154
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

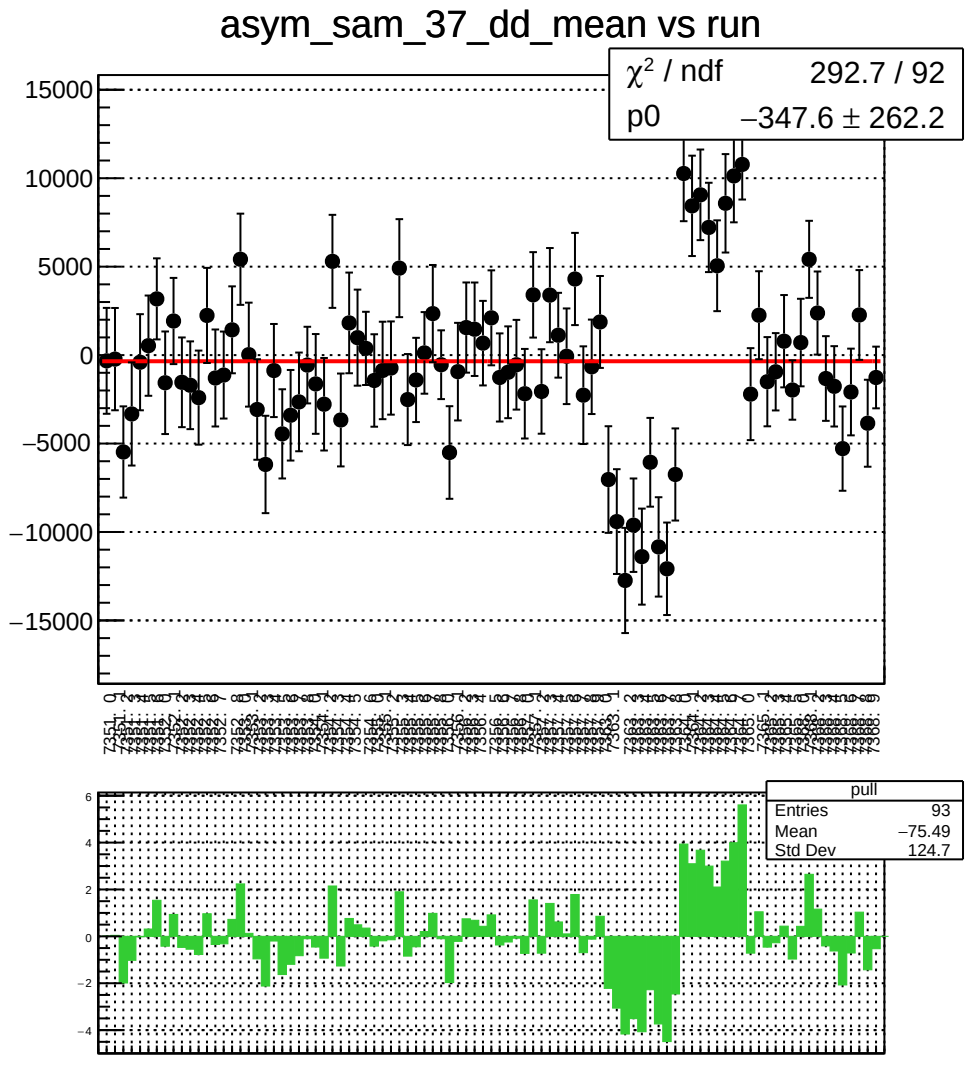

asym_sam_26_dd_rms vs run
χ² / ndf 5935 / 92
p0 1460 ± 1.101
1700
1600
1500
1400
1300

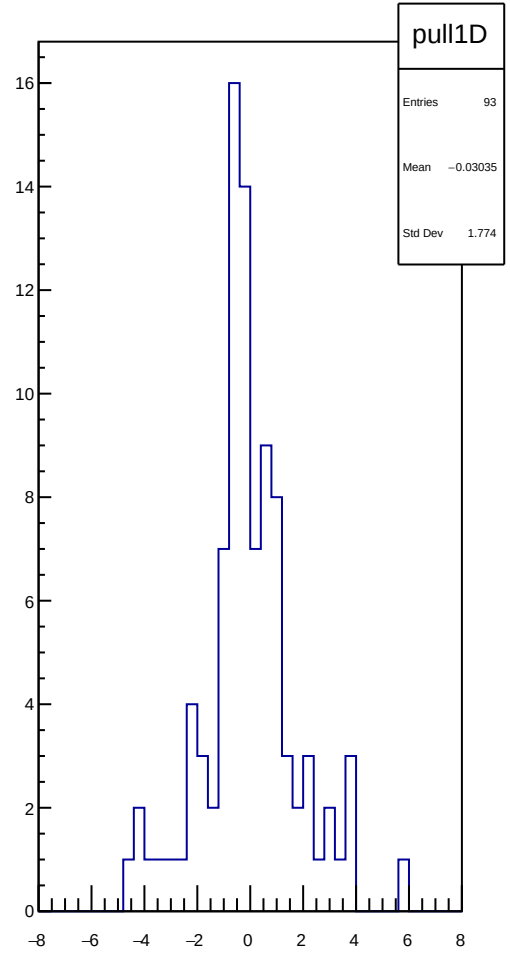

reg_asym_sam_37_dd_mean vs run
χ² / ndf 100.7 / 92
p0 −88.43 ± 51.95
pull
Entries 93
Mean 313.6
Std Dev 272.6
pull1D
Entries 93
Mean 0.01017
Std Dev 1.04

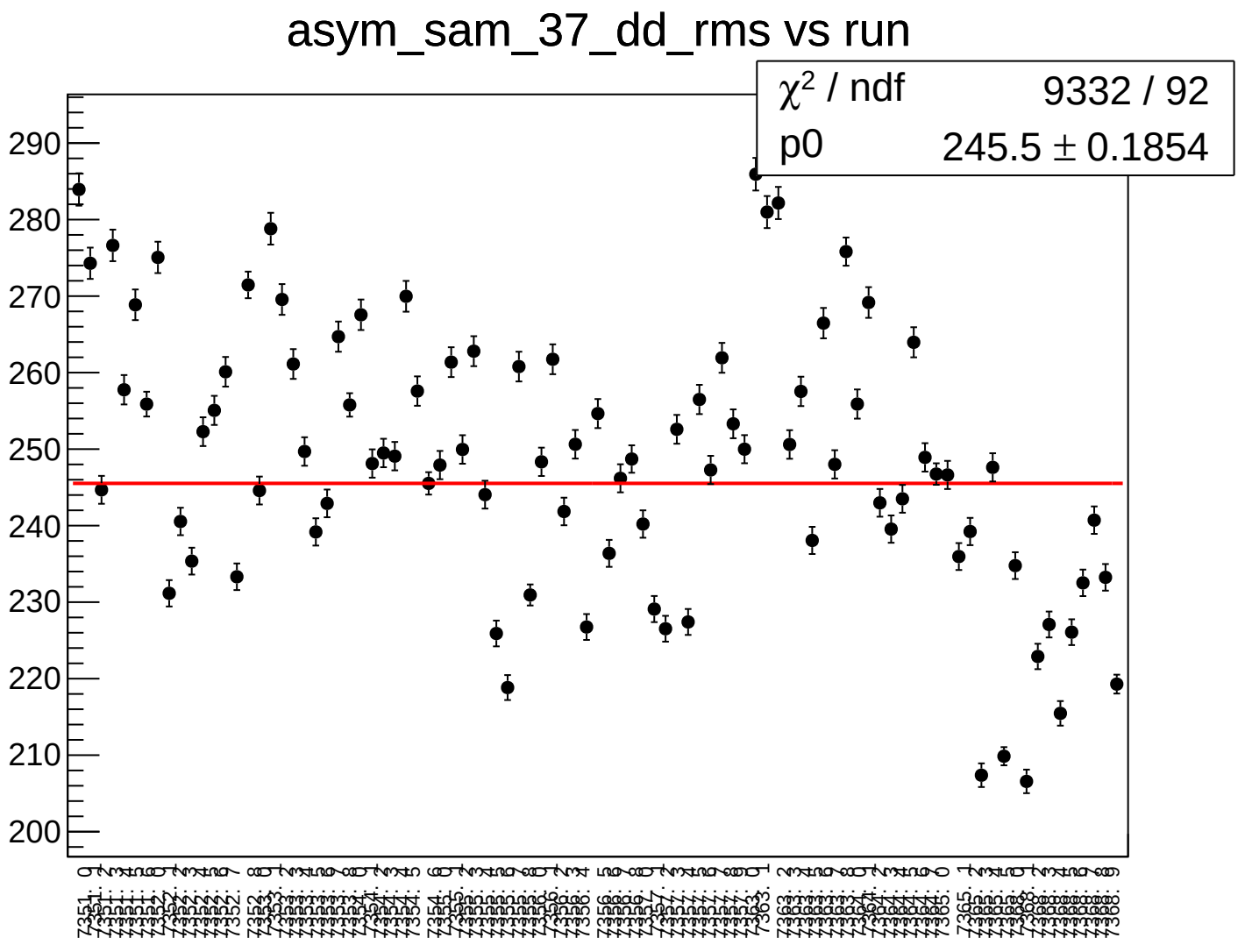

reg_asym_sam_37_dd_rms vs run
χ² / ndf 6522 / 92
p0 48.69 ± 0.03673
56
54
52
50
48
46
44
42

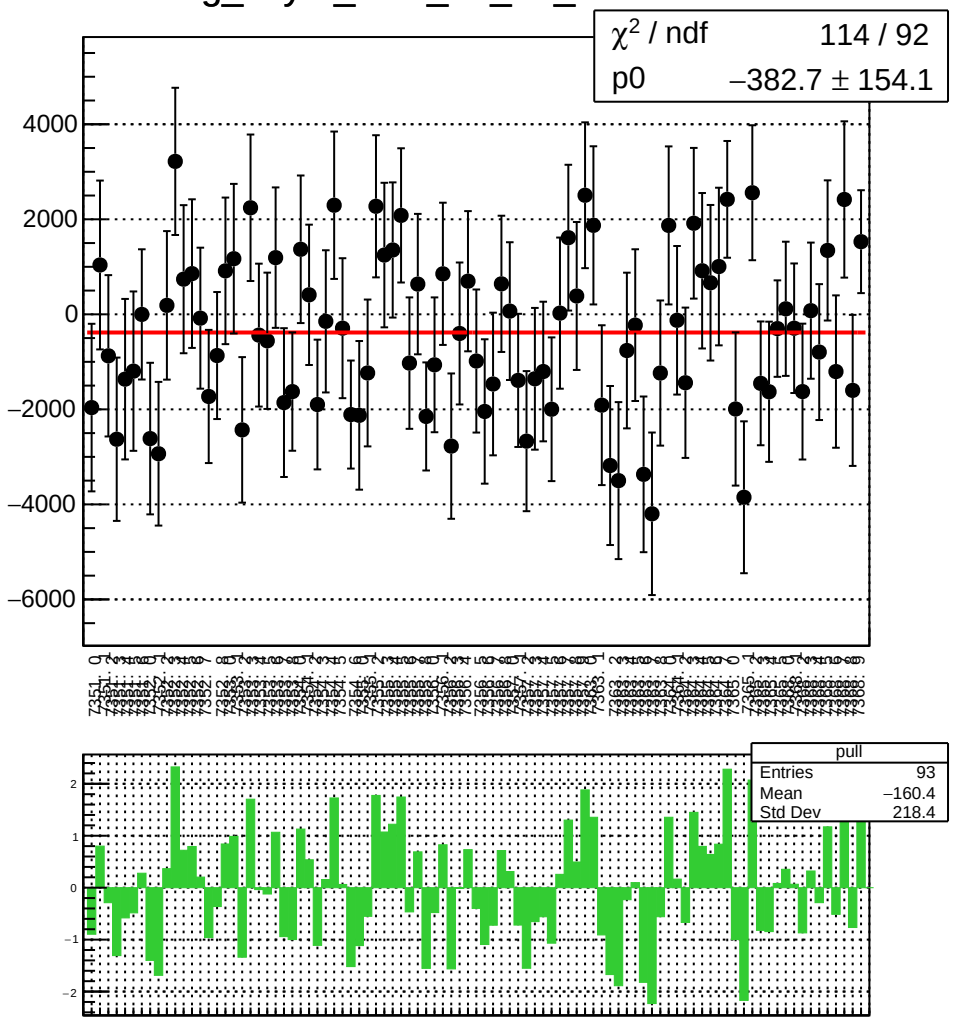

asym_sam_37_dd_correction_mean vs run
χ² / ndf 282 / 92
p0 258.1 ± 256.9
pull
Entries 93
Mean −50.34
Std Dev 100.9
pull1D
Entries 93
Mean 0.03329
Std Dev 1.741

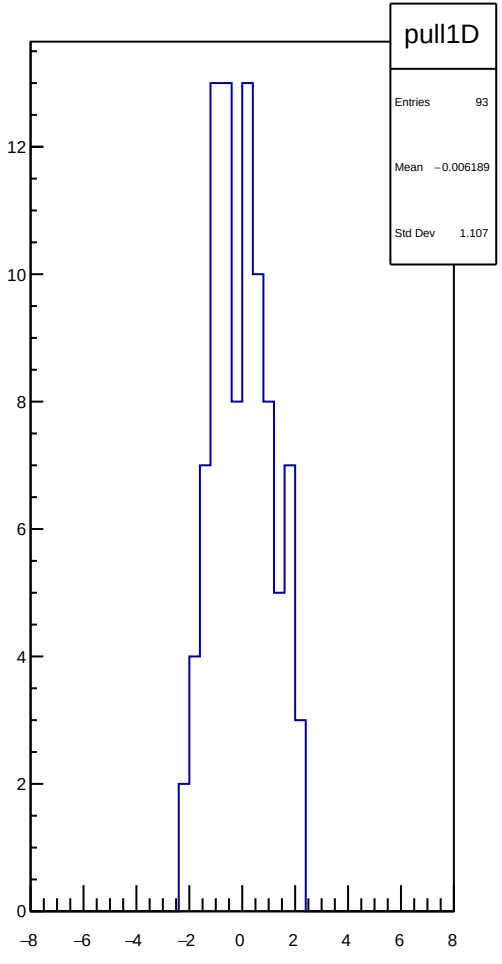

asym_sam_37_dd_correction_rms vs run
χ² / ndf 9775 / 92
p0 240.5 ± 0.1816
280
260
240
220
200

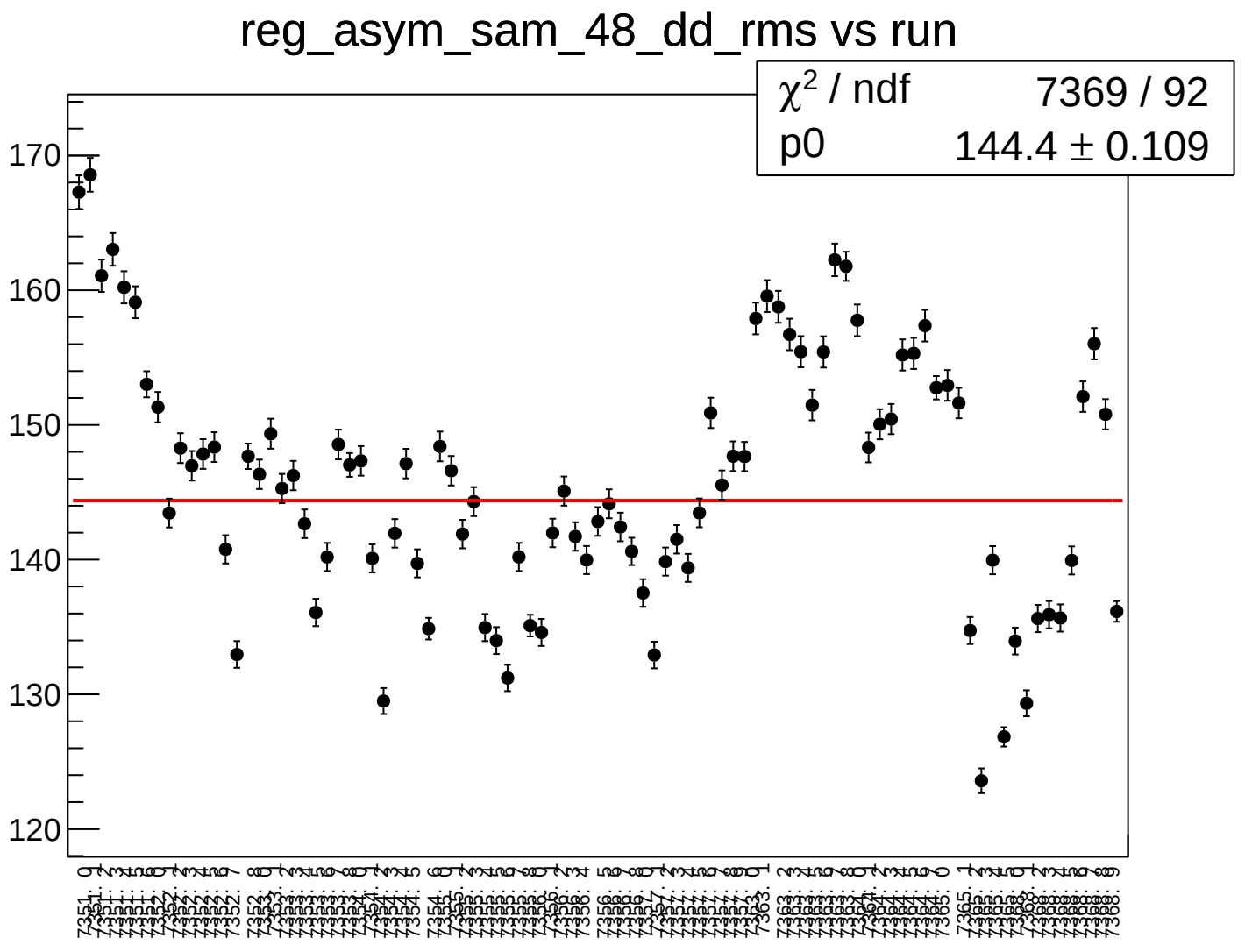

asym_sam_37_dd_mean vs run
χ² / ndf 292.7 / 92
p0 −347.6 ± 262.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −75.49
Std Dev 124.7
6
4
2
0
−2
−4

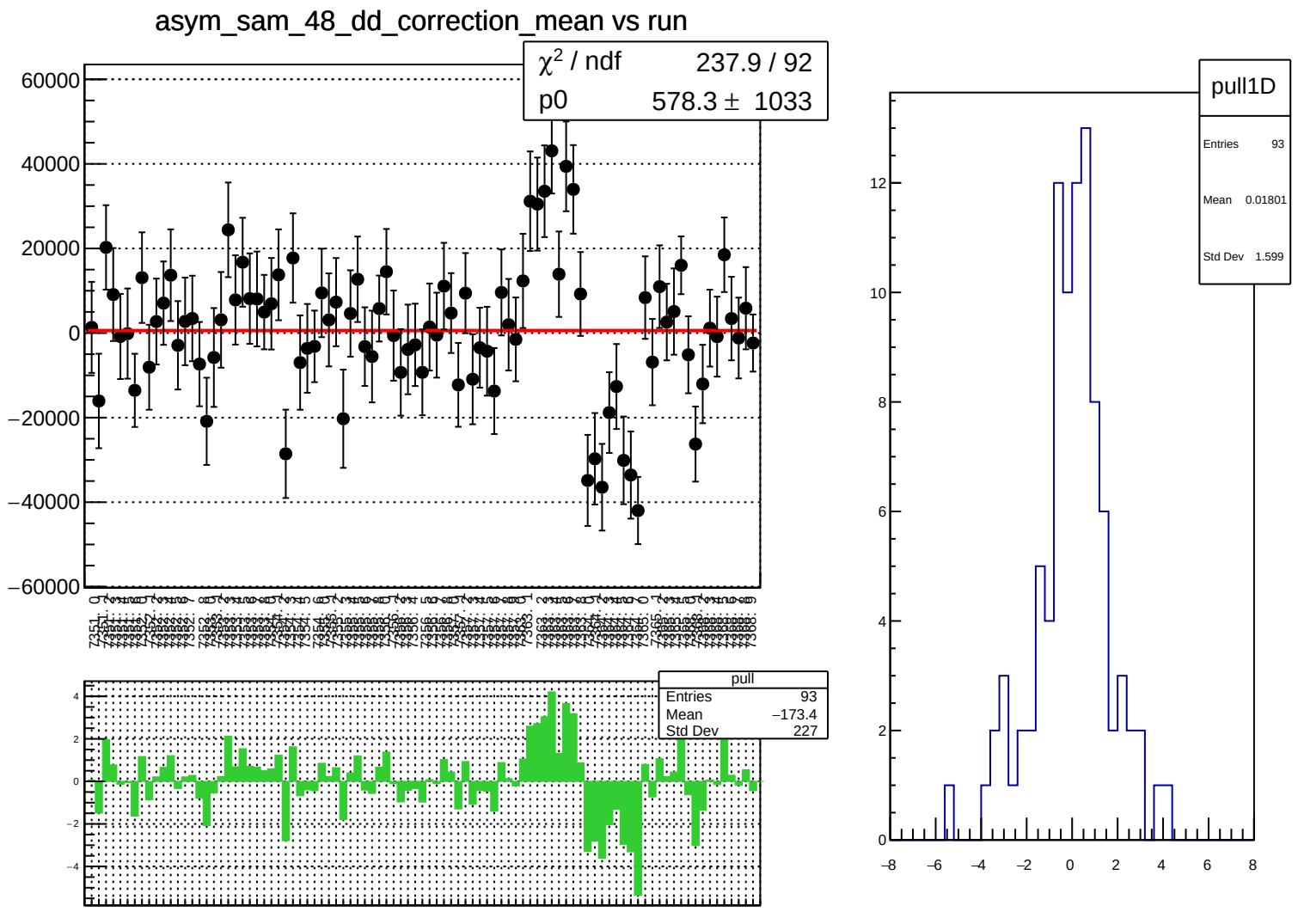

pull1D
Entries 93
Mean −0.03035
Std Dev 1.774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

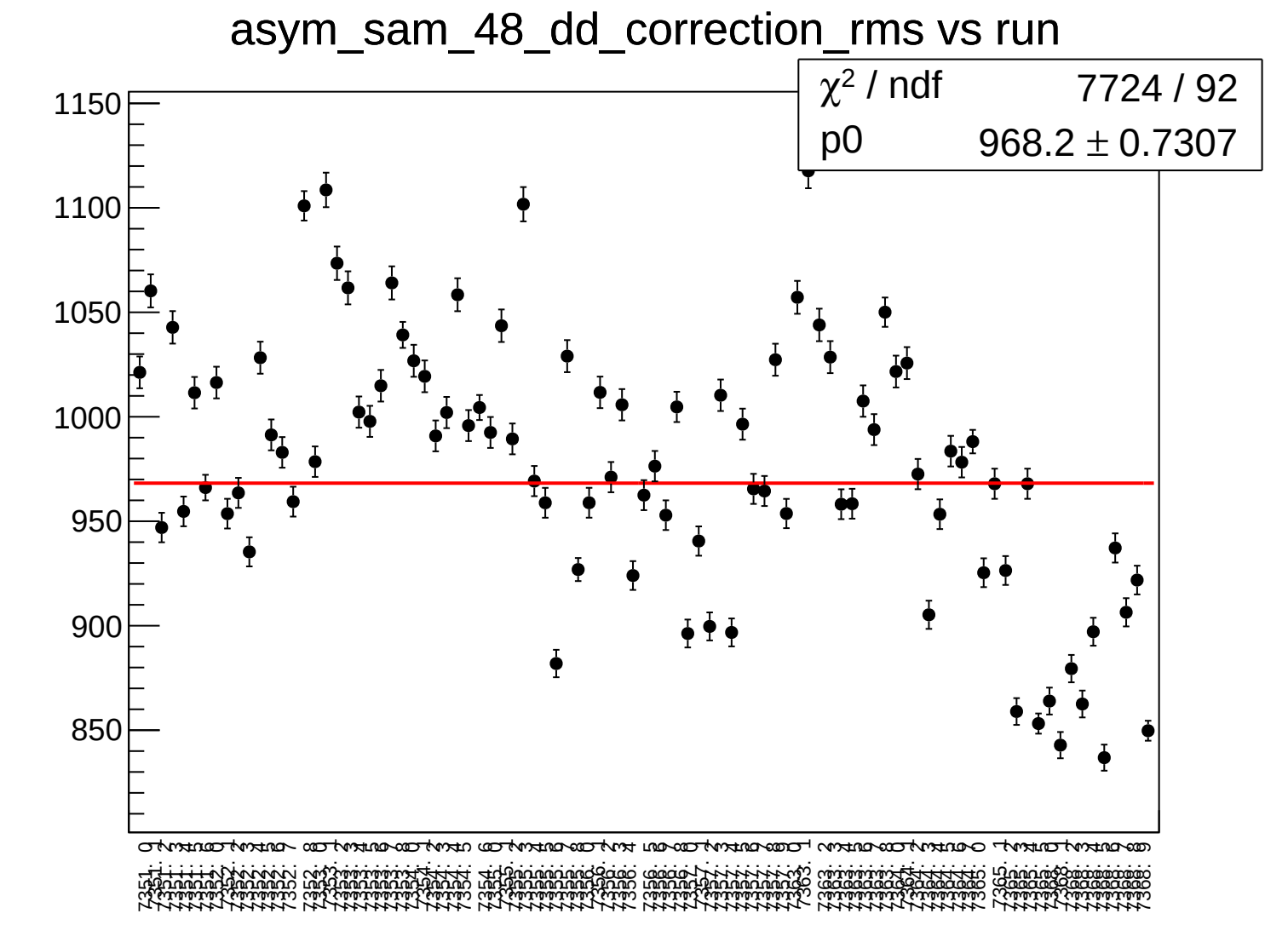

asym_sam_37_dd_rms vs run
χ^2 / ndf 9332 / 92
p0 245.5 ± 0.1854
290
280
270
260
250
240
230
220
210
200

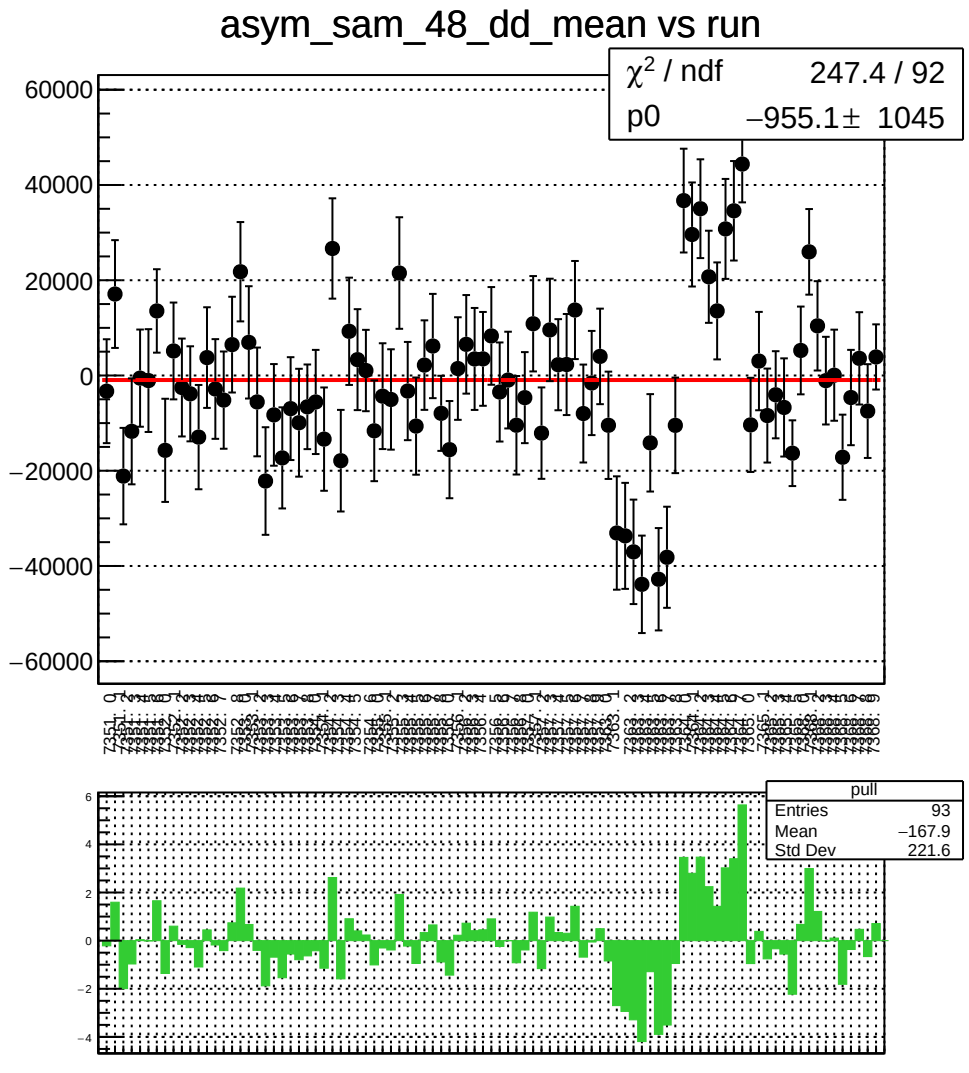

reg_asym_sam_48_dd_mean vs run
χ² / ndf 114 / 92
p0 −382.7 ± 154.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −160.4
Std Dev 218.4
2
1
0
−1
−2

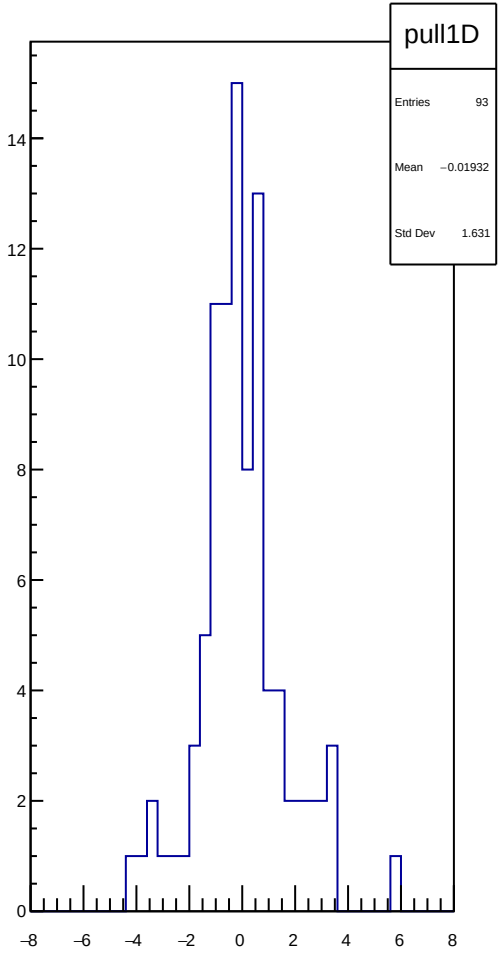

pull1D
Entries 93
Mean −0.006189
Std Dev 1.107
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

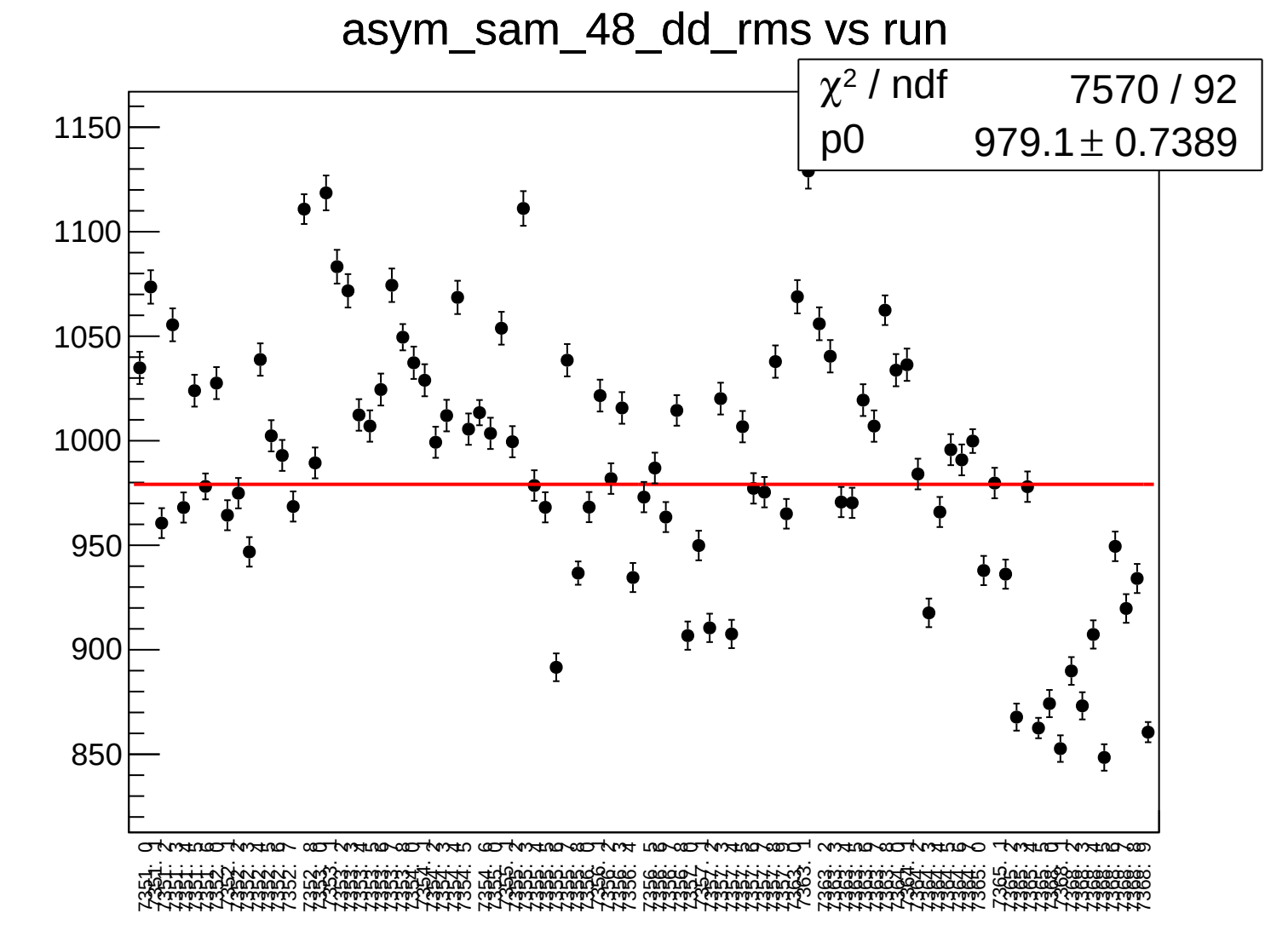

reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 7369 / 92
p0 144.4 ± 0.109
170
160
150
140
130
120

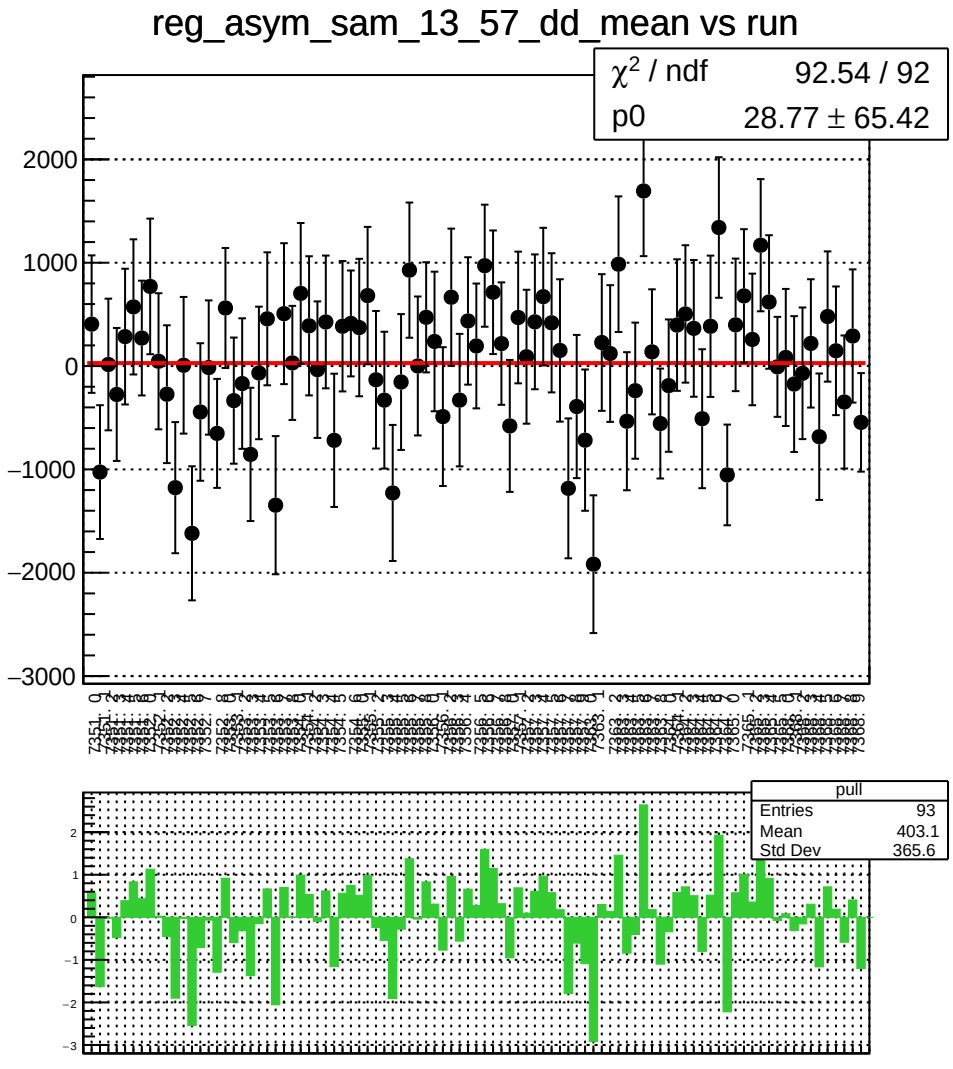

asym_sam_48_dd_correction_mean vs run
χ² / ndf 237.9 / 92
p0 578.3 ± 1033
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −173.4
Std Dev 227
4
2
0
−2
−4
pull1D
Entries 93
Mean 0.01801
Std Dev 1.599
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

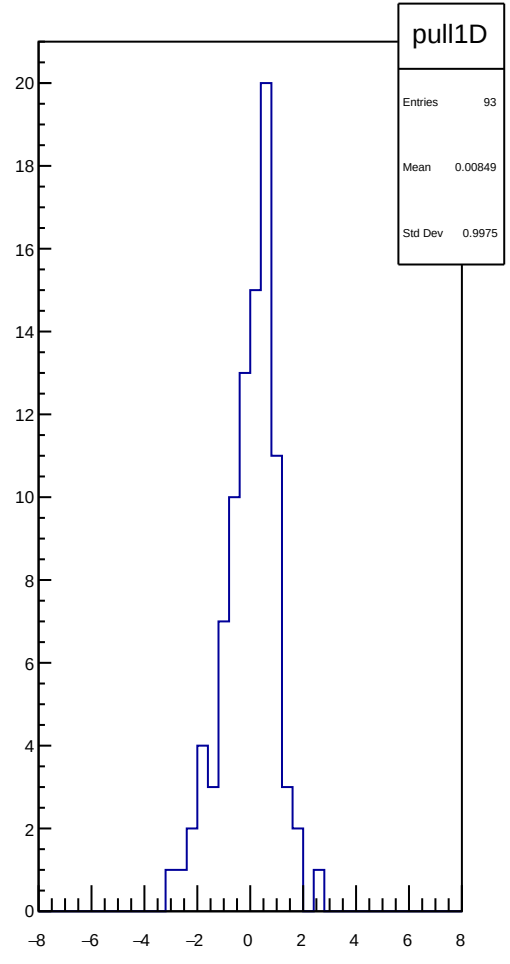

asym_sam_48_dd_correction_rms vs run
χ² / ndf 7724 / 92
p0 968.2 ± 0.7307
1150
1100
1050
1000
950
900
850

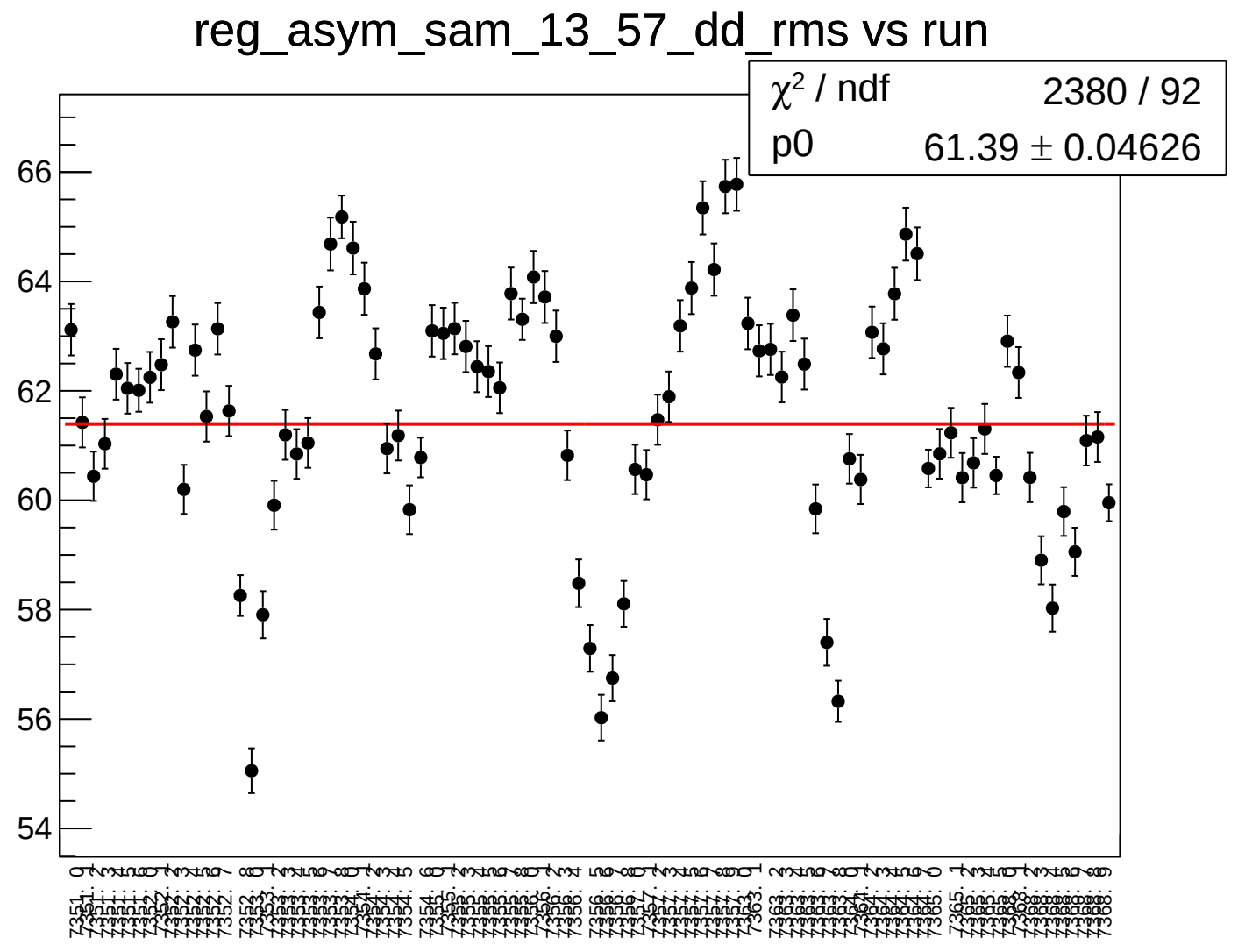

asym_sam_48_dd_mean vs run
χ² / ndf 247.4 / 92
p0 −955.1± 1045
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 93
Mean −167.9
Std Dev 221.6
6
4
2
0
−2
−4

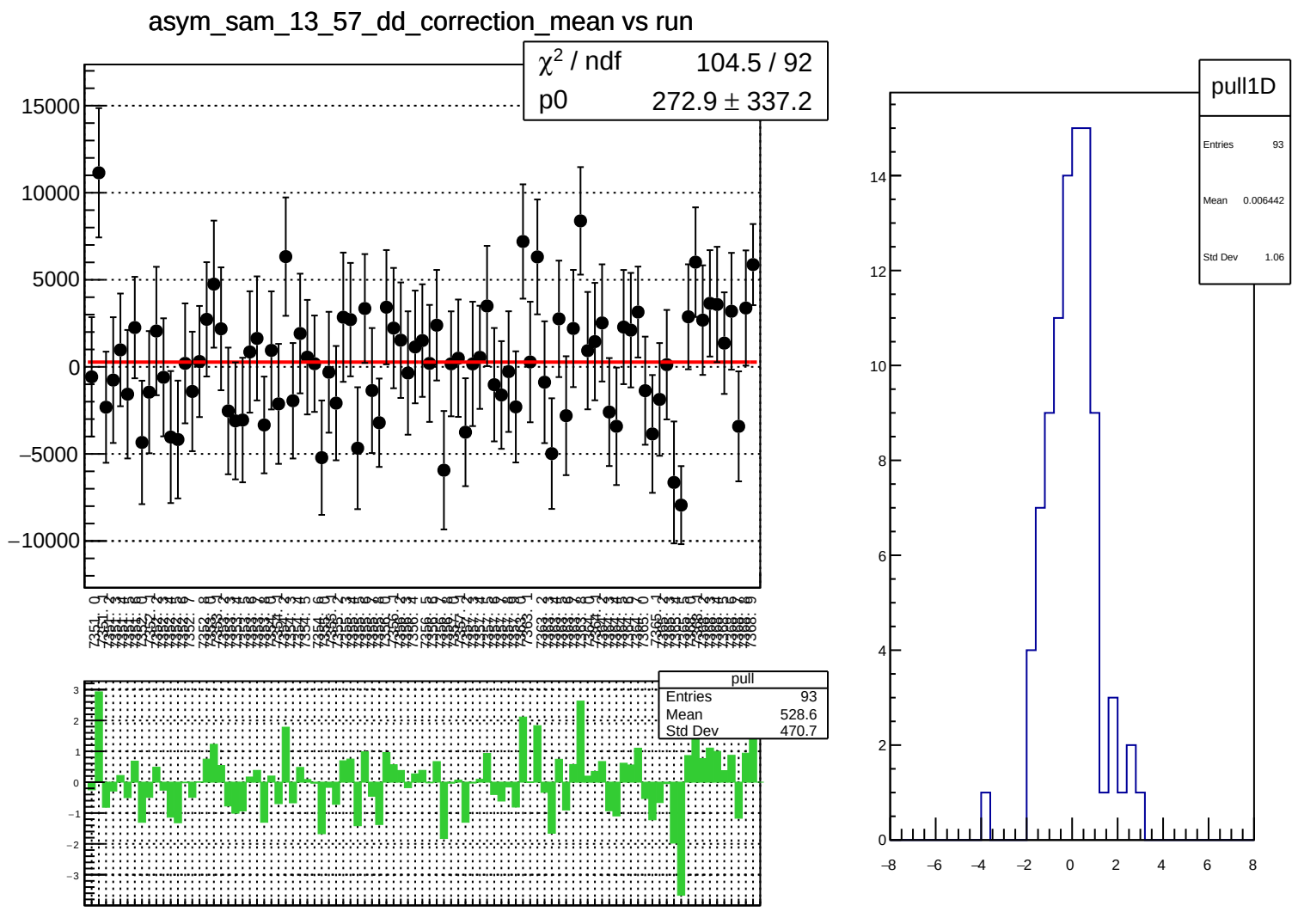

pull1D
Entries 93
Mean −0.01932
Std Dev 1.631
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

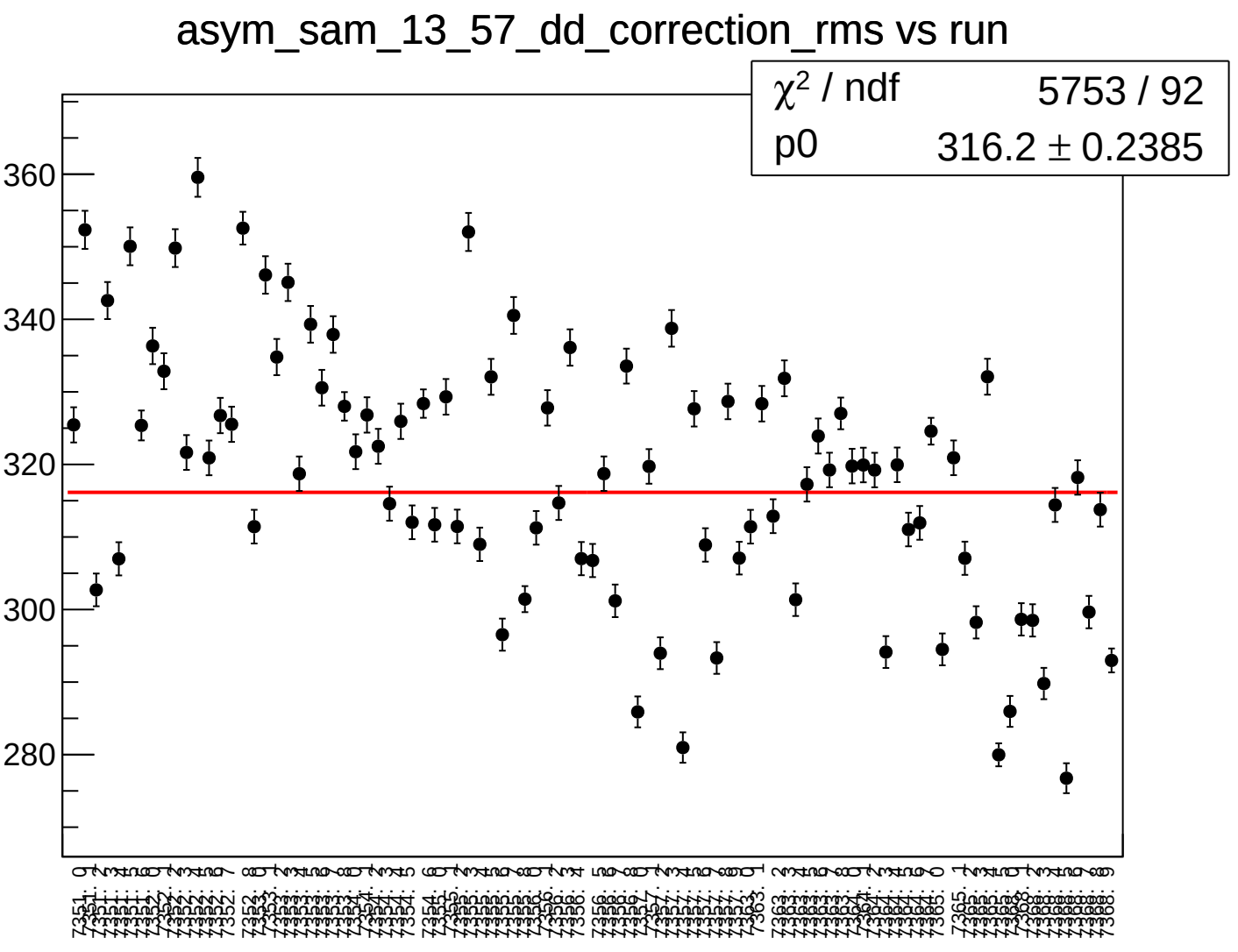

asym_sam_48_dd_rms vs run
χ² / ndf 7570 / 92
p0 979.1 ± 0.7389
1150
1100
1050
1000
950
900
850

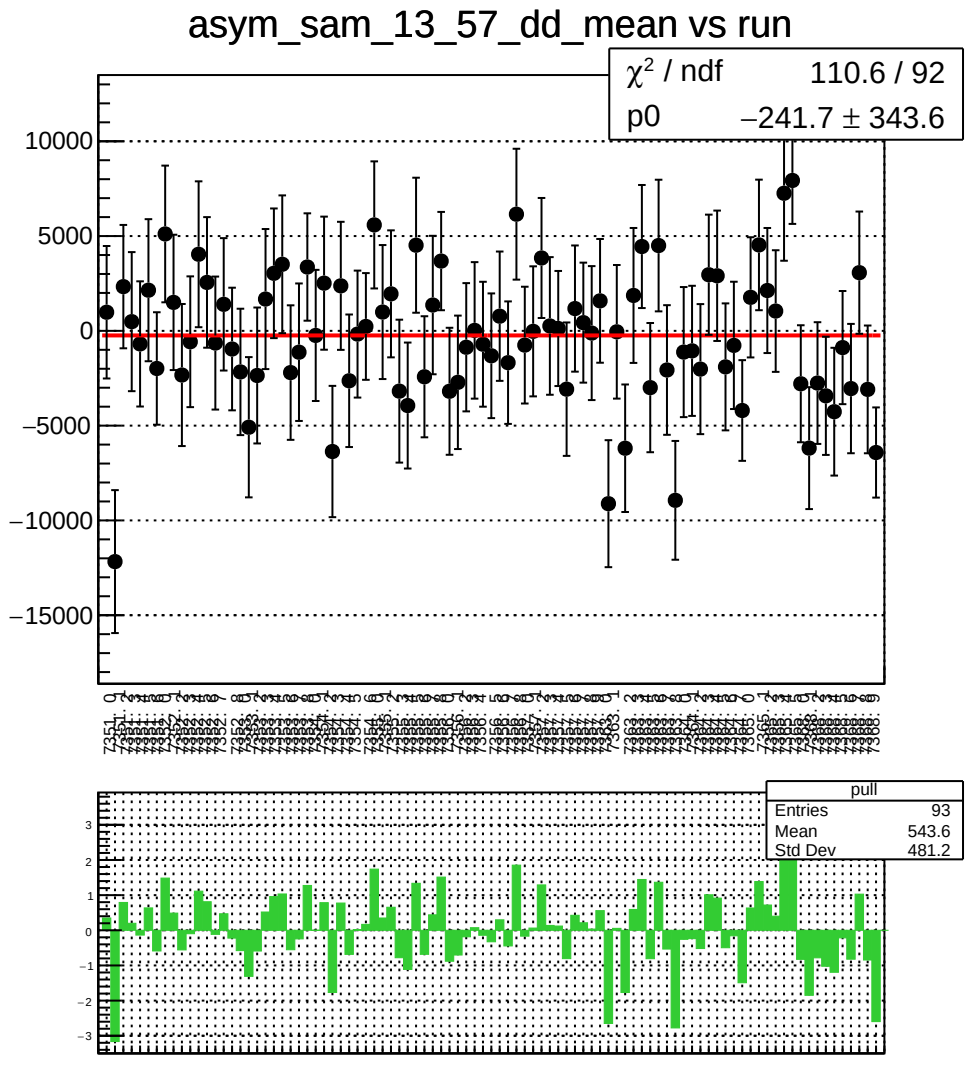

reg_asym_sam_13_57_dd_mean vs run
χ² / ndf 92.54 / 92
p0 28.77 ± 65.42
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean 403.1
Std Dev 365.6
2
1
0
−1
−2
−3

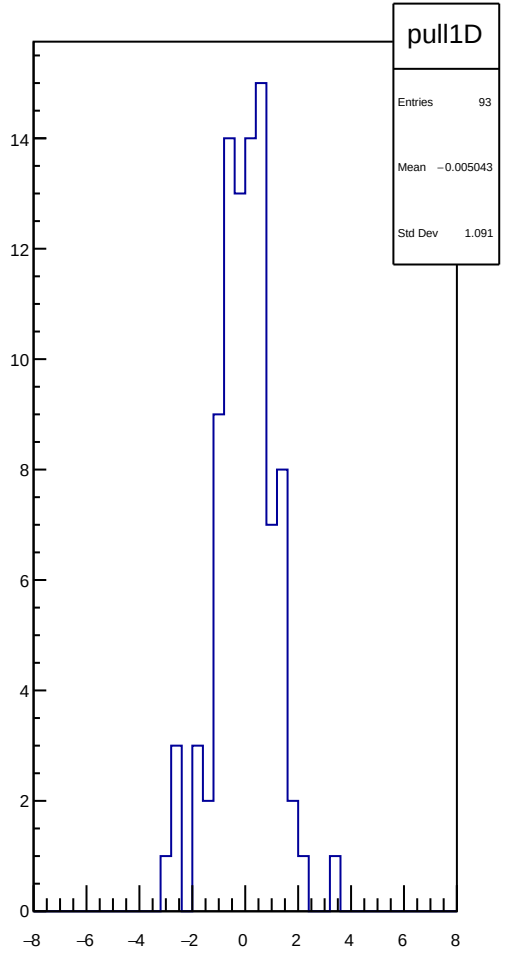

pull1D
Entries 93
Mean 0.00849
Std Dev 0.9975
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

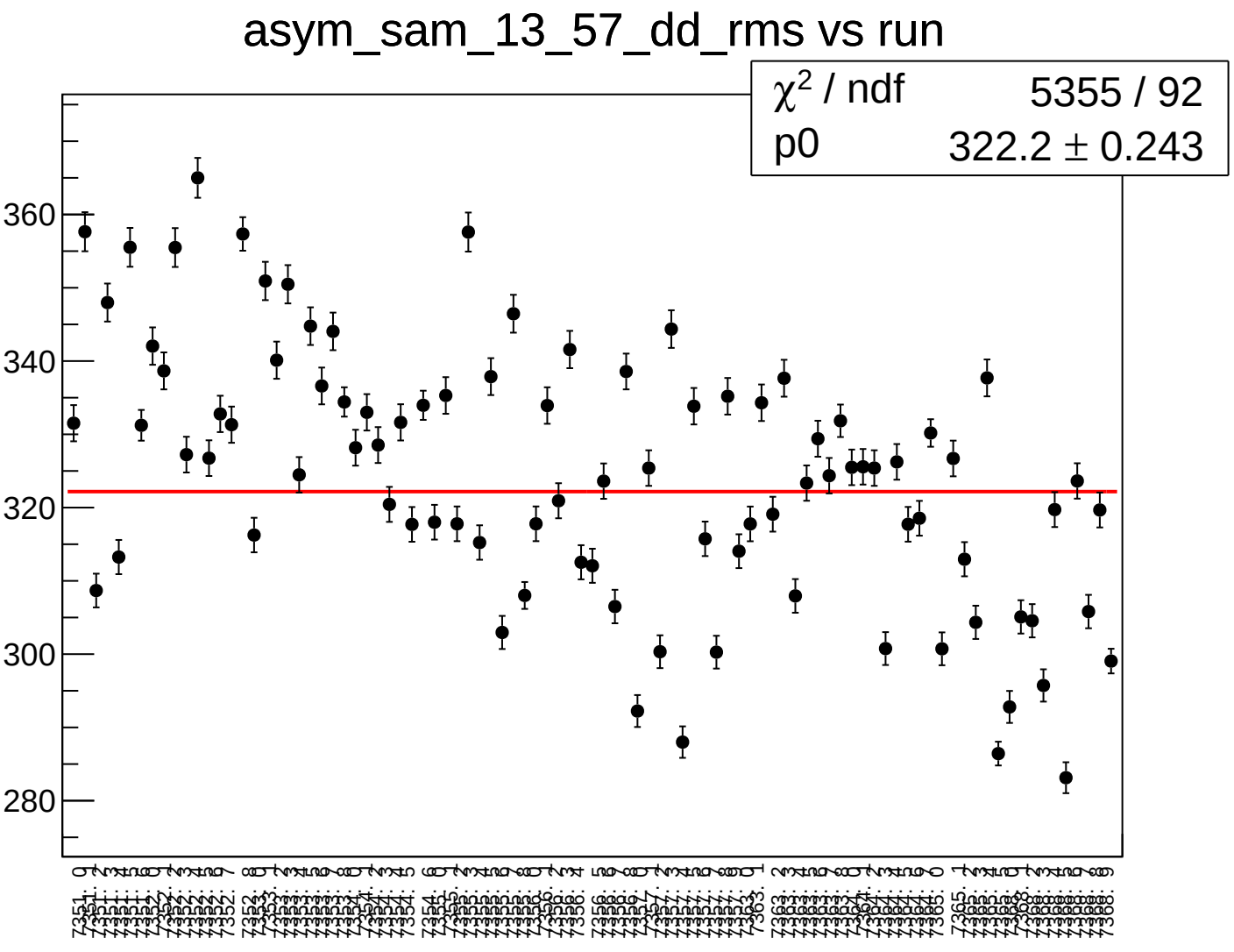

reg_asym_sam_13_57_dd_rms vs run
χ² / ndf 2380 / 92
p0 61.39 ± 0.04626
66
64
62
60
58
56
54

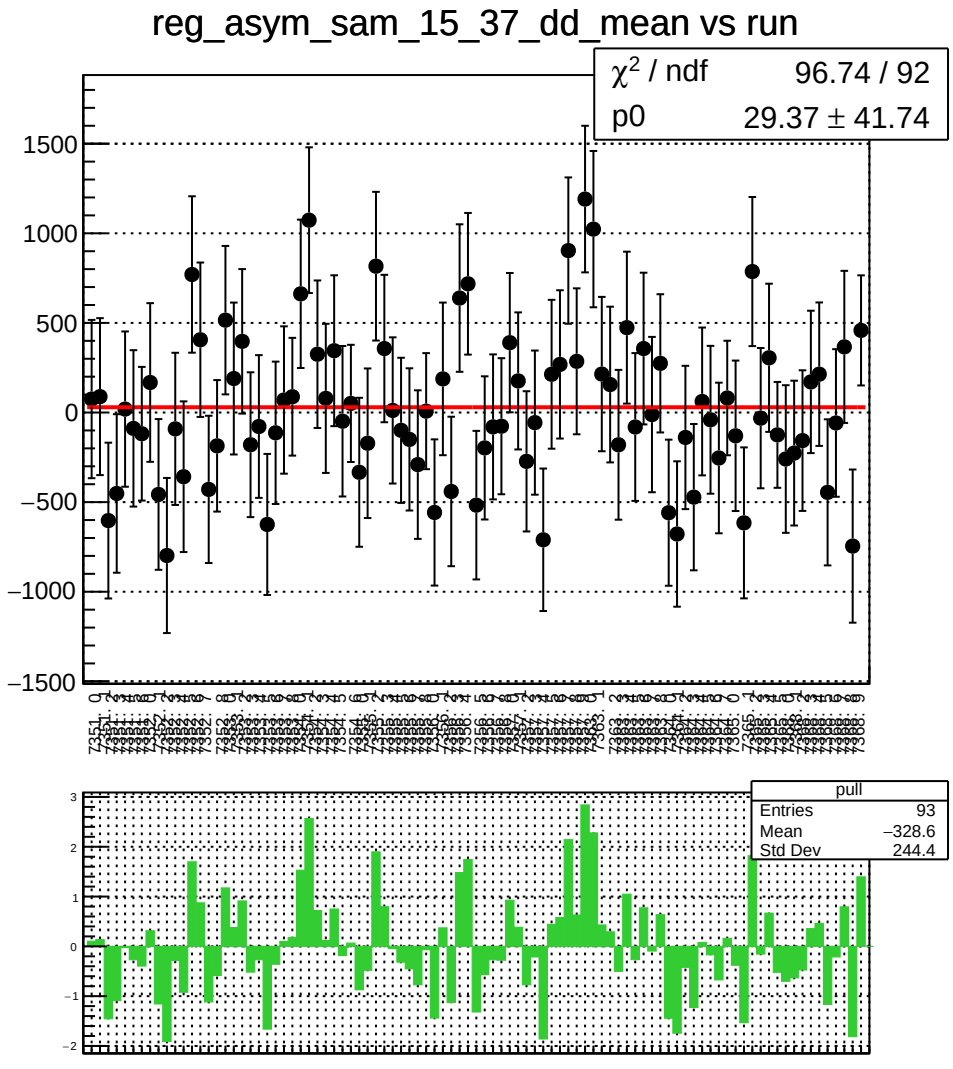

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 104.5 / 92
p0 272.9 ± 337.2
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 528.6
Std Dev 470.7
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.006442
Std Dev 1.06
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

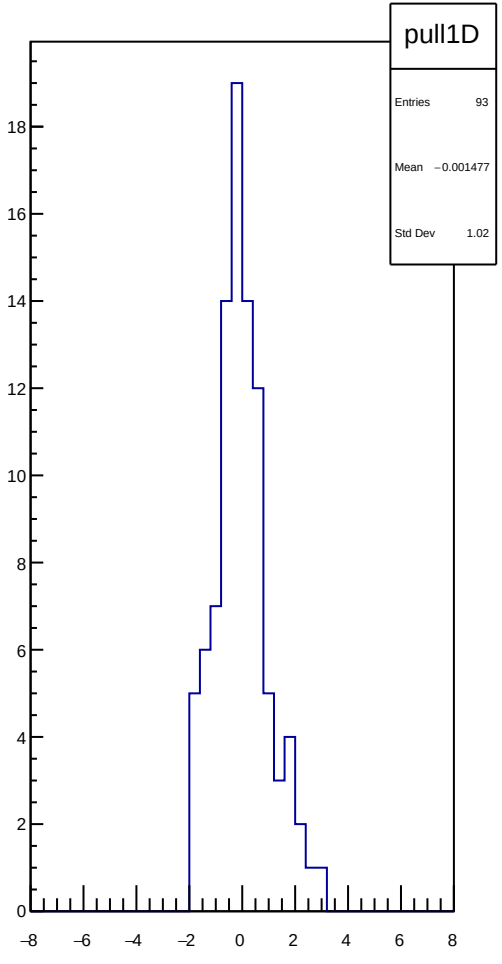

asym_sam_13_57_dd_correction_rms vs run
χ² / ndf 5753 / 92
p0 316.2 ± 0.2385
360
340
320
300
280

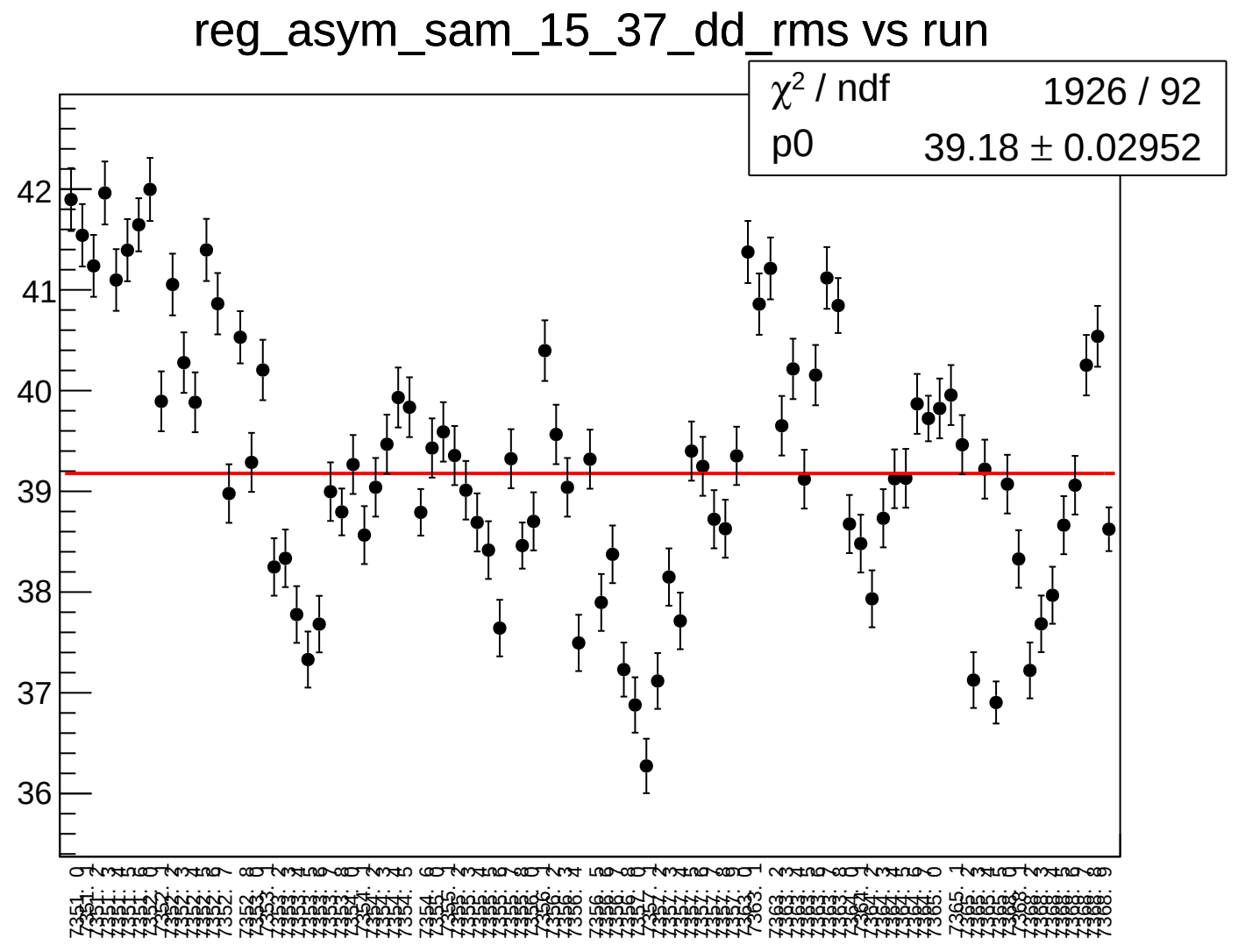

asym_sam_13_57_dd_mean vs run
χ² / ndf 110.6 / 92
p0 −241.7 ± 343.6
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 543.6
Std Dev 481.2
3
2
1
0
−1
−2
−3

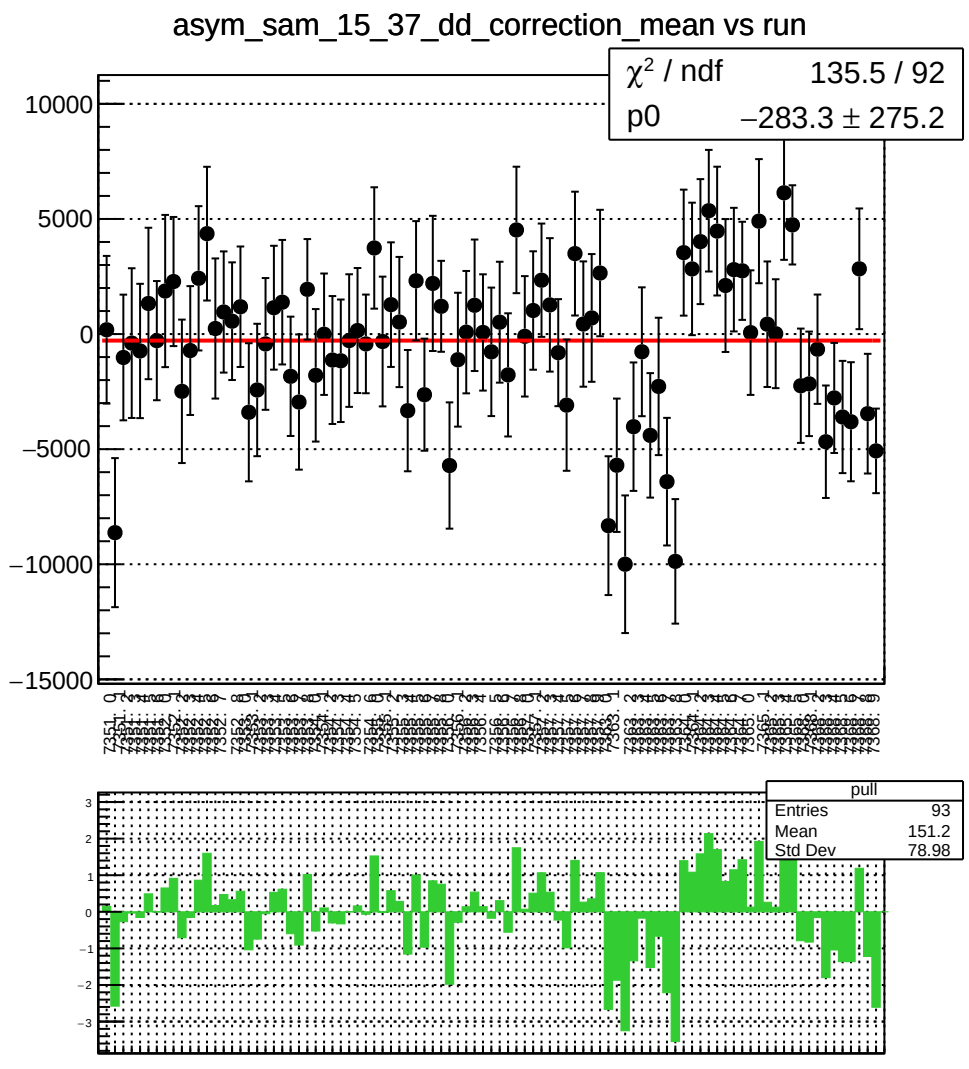

pull1D
Entries 93
Mean −0.005043
Std Dev 1.091
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

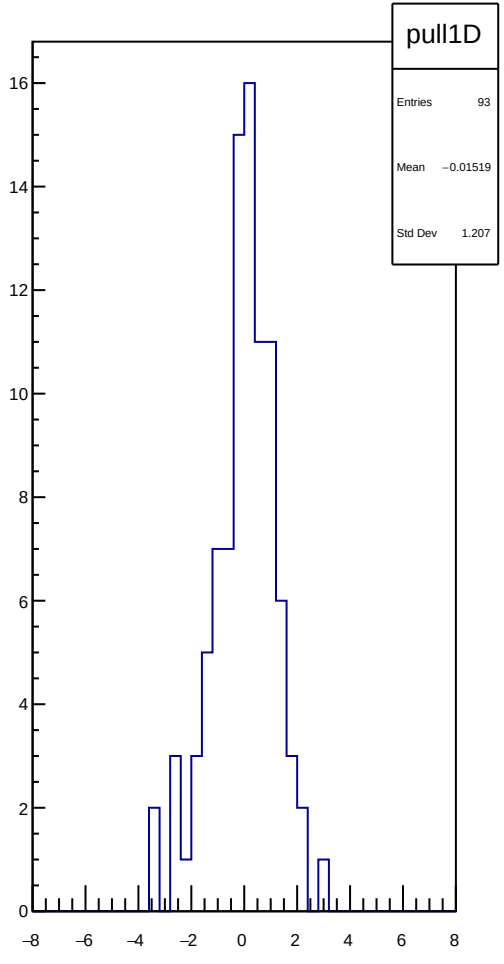

asym_sam_13_57_dd_rms vs run
χ^2 / ndf 5355 / 92
p0 322.2 ± 0.243
360
340
320
300
280

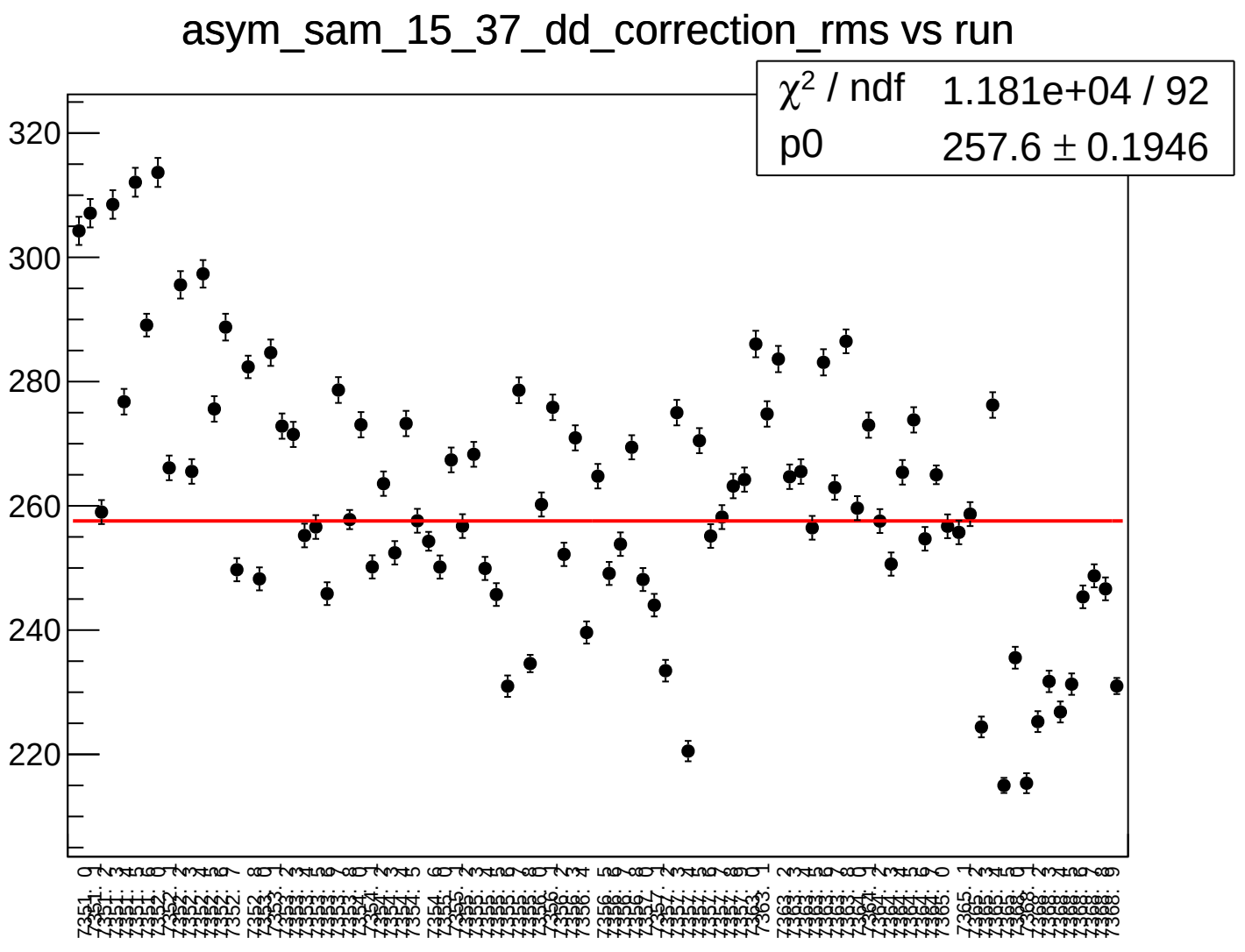

reg_asym_sam_15_37_dd_mean vs run
χ^2 / ndf 96.74 / 92
p0 29.37 ± 41.74
pull
Entries 93
Mean −328.6
Std Dev 244.4

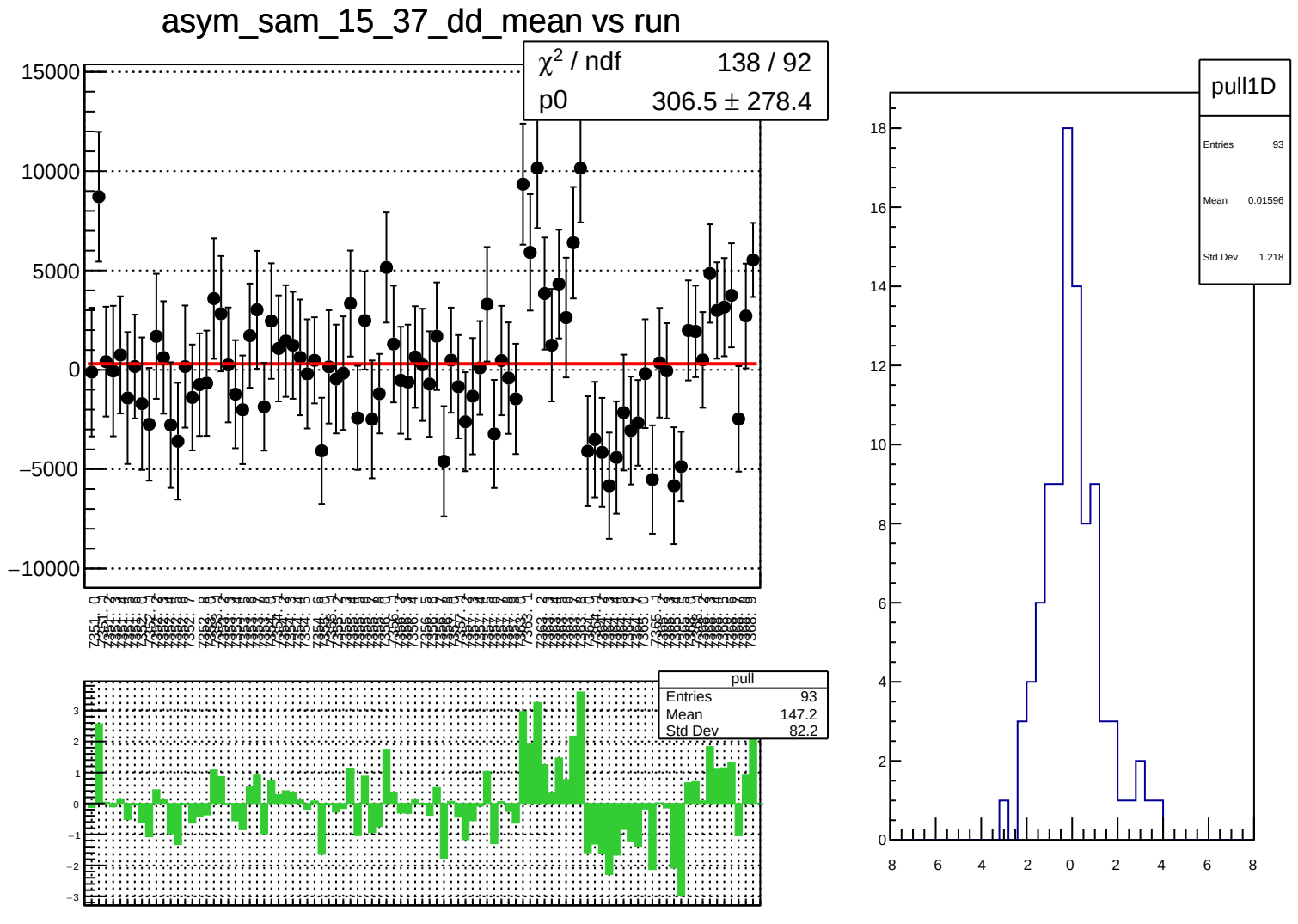

pull1D
Entries 93
Mean −0.001477
Std Dev 1.02

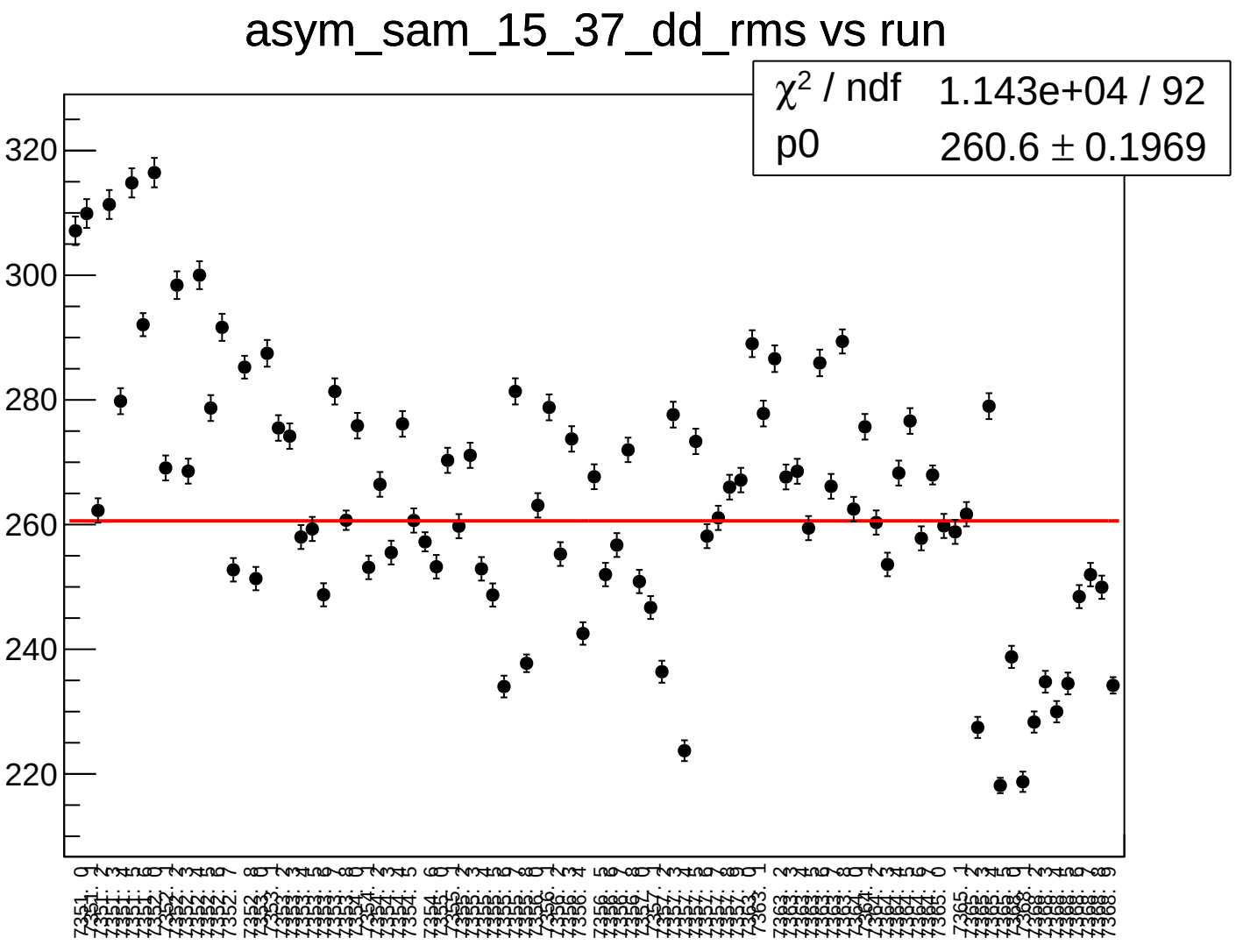

reg_asym_sam_15_37_dd_rms vs run
χ² / ndf 1926 / 92
p0 39.18 ± 0.02952
42
41
40
39
38
37
36

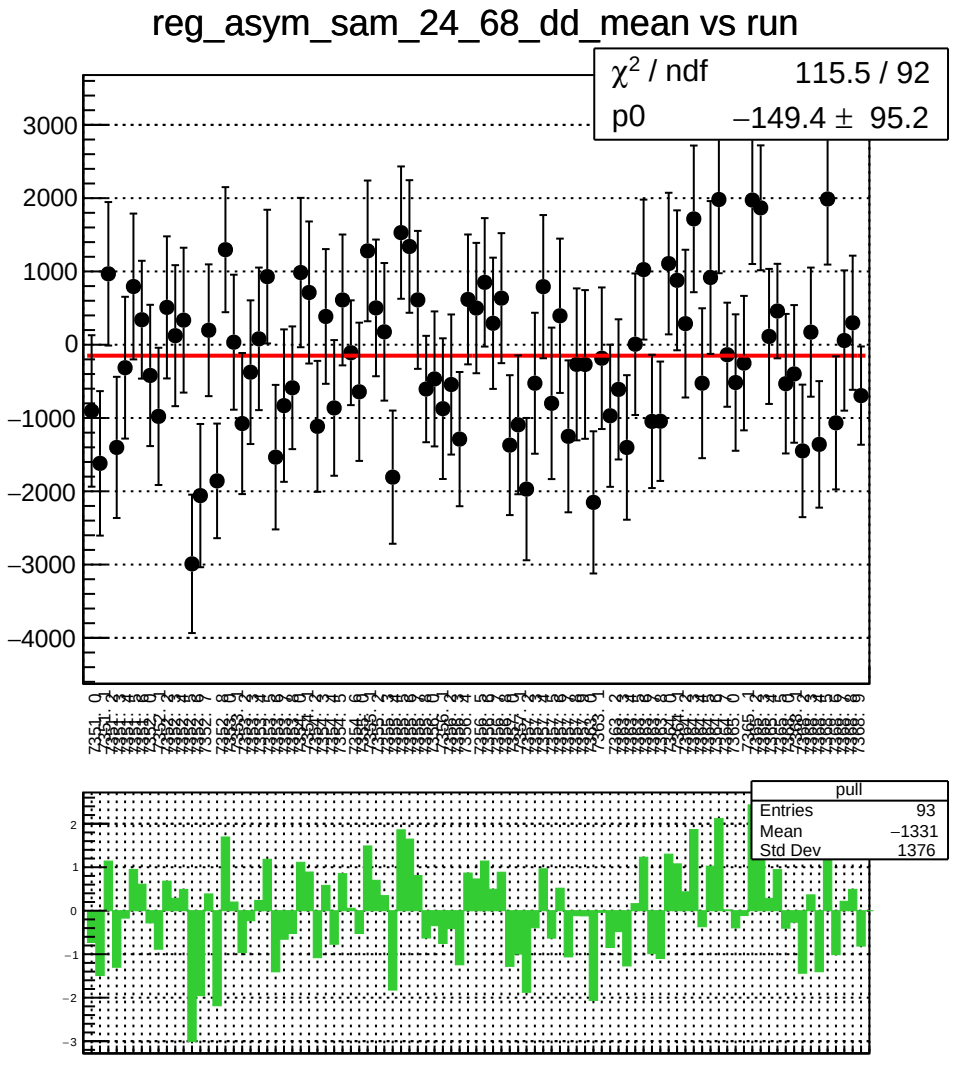

asym_sam_15_37_dd_correction_mean vs run
χ² / ndf 135.5 / 92
p0 −283.3 ± 275.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 151.2
Std Dev 78.98
3
2
1
0
−1
−2
−3

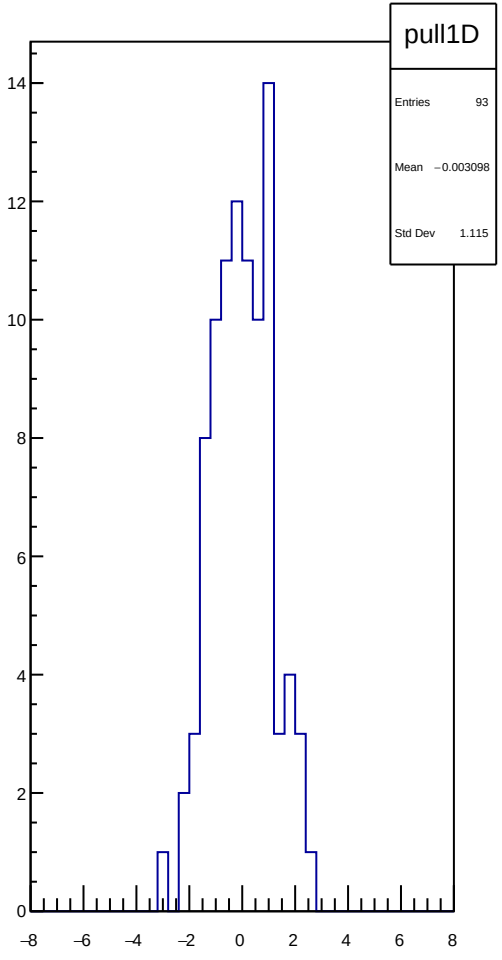

pull1D
Entries 93
Mean −0.01519
Std Dev 1.207
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

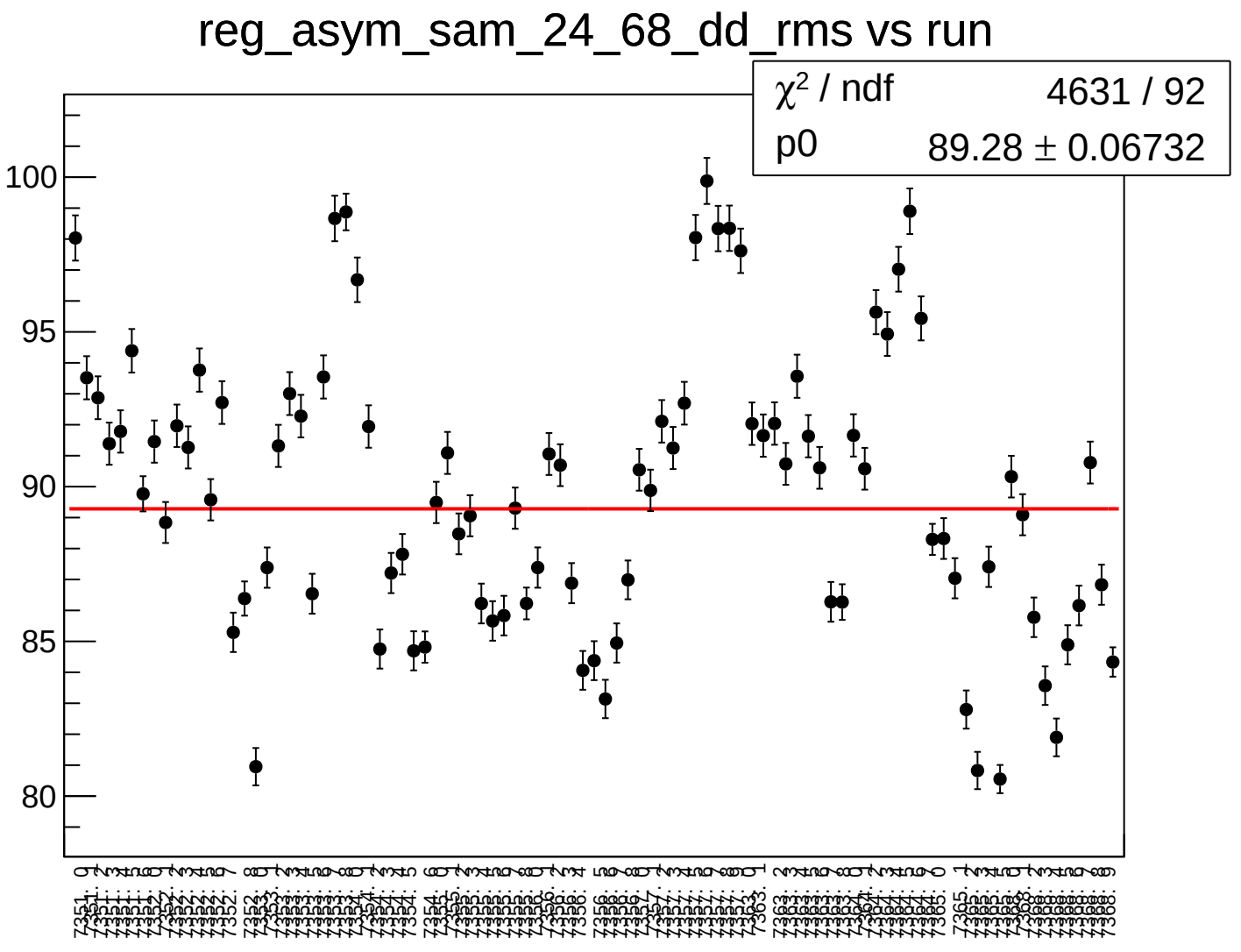

asym_sam_15_37_dd_correction_rms vs run
χ² / ndf 1.181e+04 / 92
p0 257.6 ± 0.1946
320
300
280
260
240
220

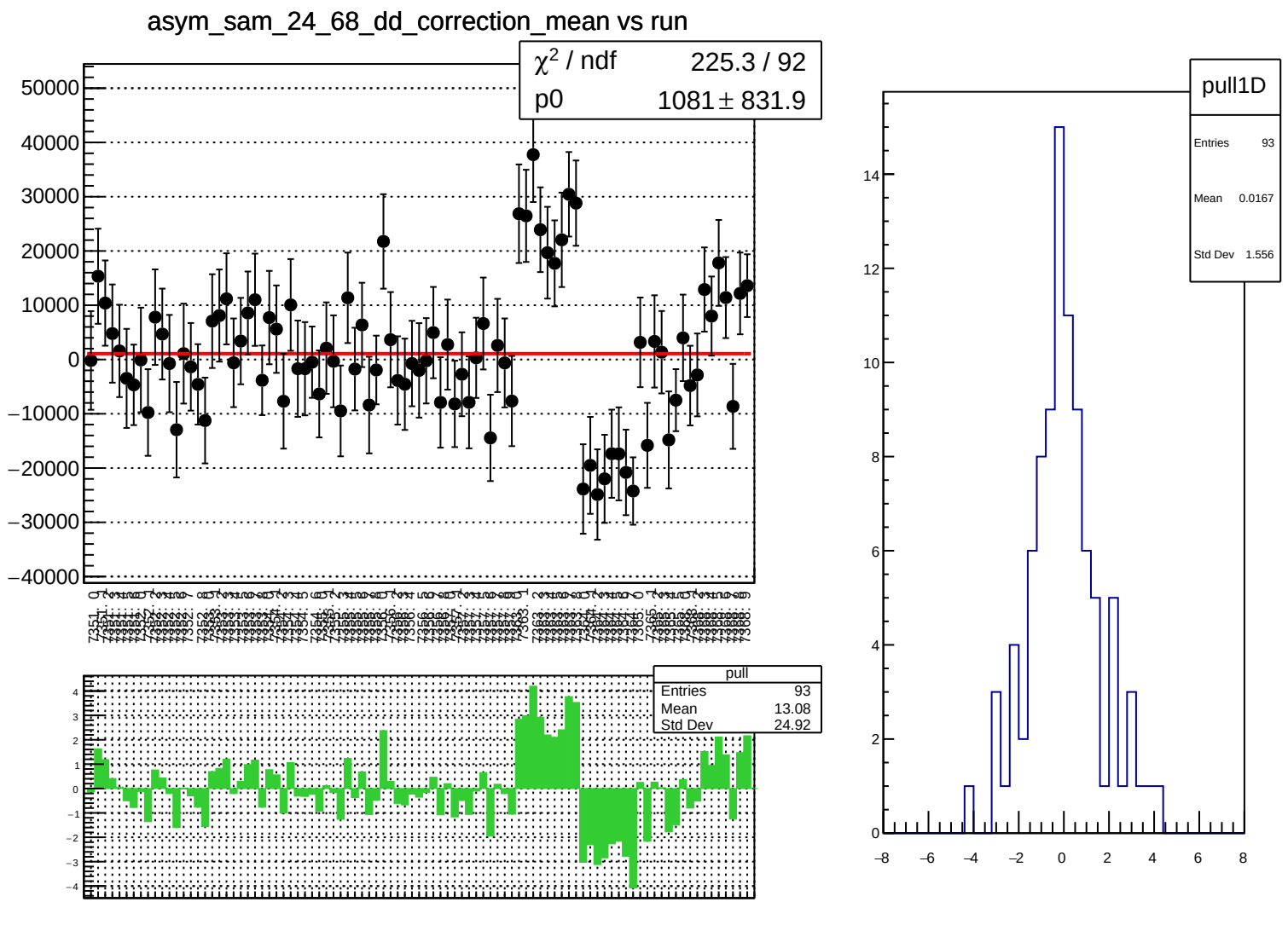

asym_sam_15_37_dd_mean vs run
χ² / ndf 138 / 92
p0 306.5 ± 278.4
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 147.2
Std Dev 82.2
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01596
Std Dev 1.218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

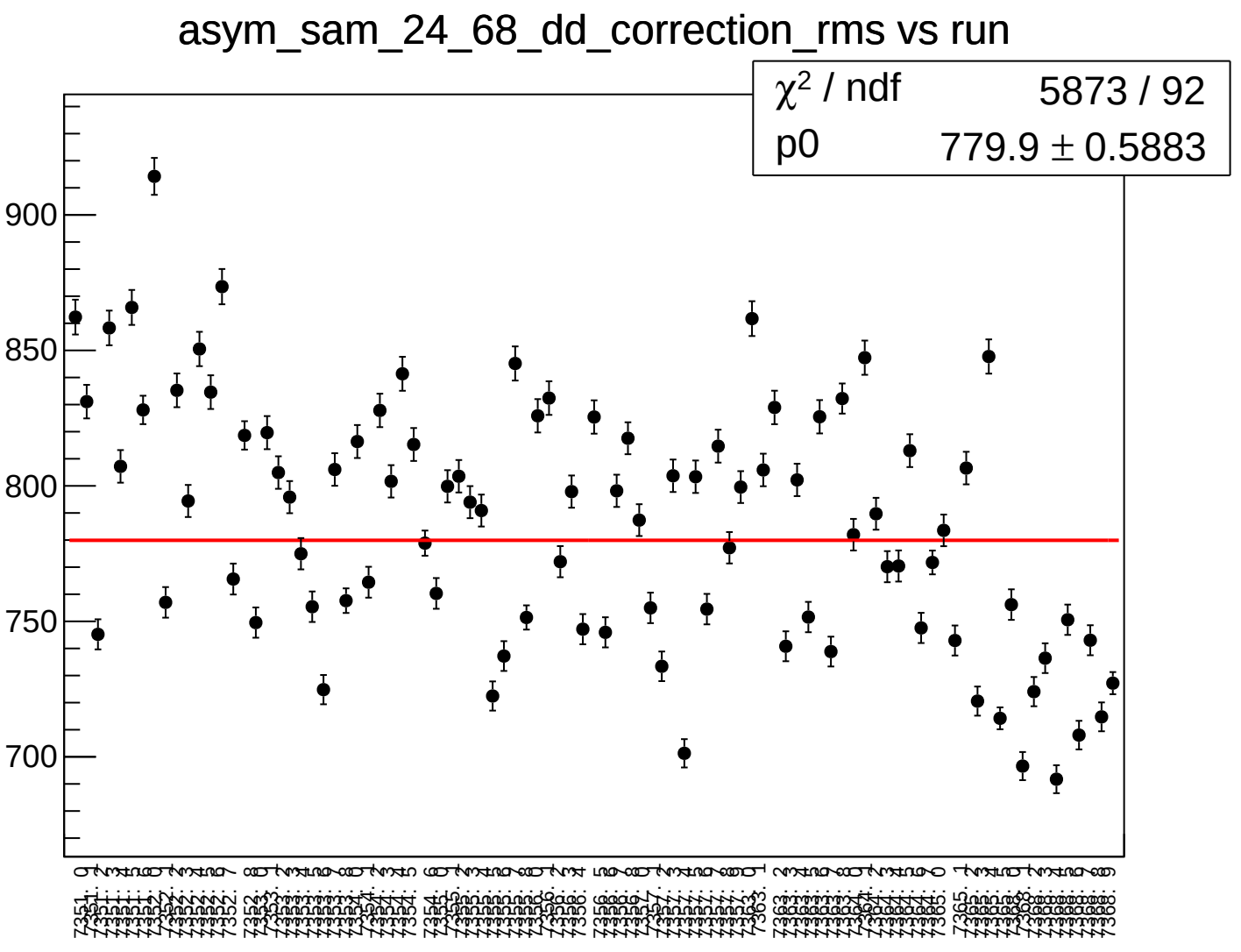

asym_sam_15_37_dd_rms vs run
χ² / ndf 1.143e+04 / 92
p0 260.6 ± 0.1969
320
300
280
260
240
220

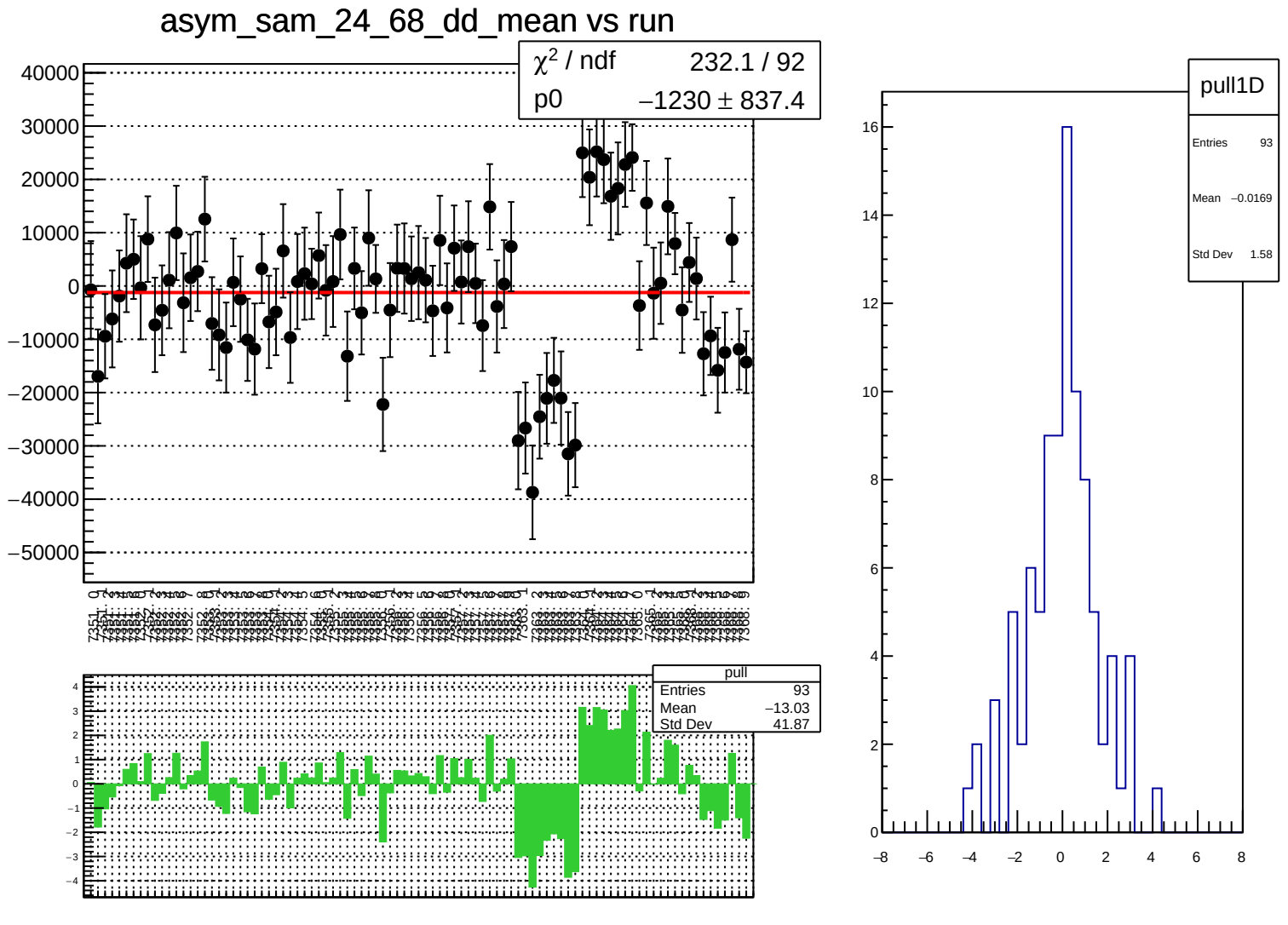

reg_asym_sam_24_68_dd_mean vs run
χ² / ndf 115.5 / 92
p0 −149.4 ± 95.2
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 93
Mean −1331
Std Dev 1376
2
1
0
−1
−2
−3

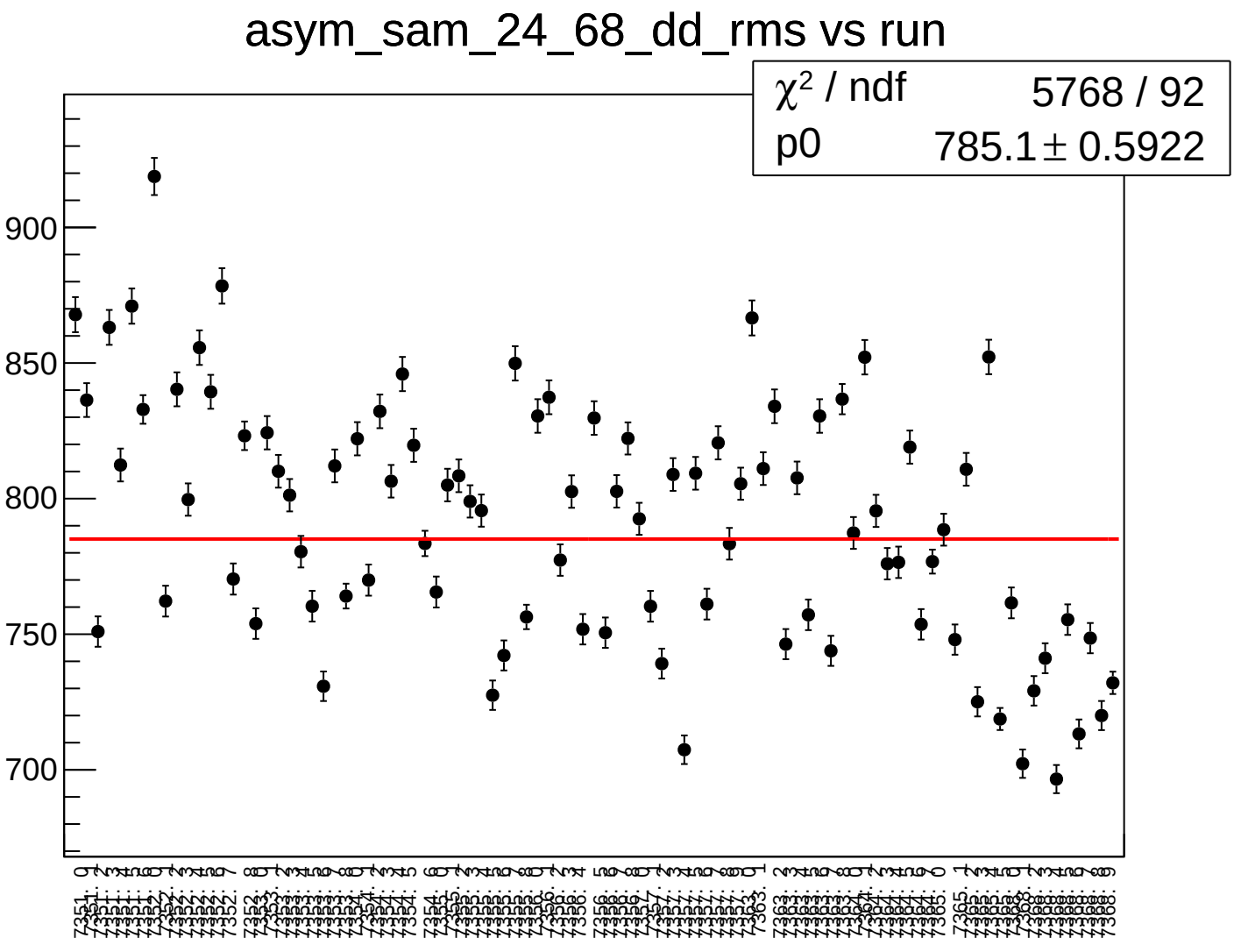

pull1D
Entries 93
Mean −0.003098
Std Dev 1.115
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

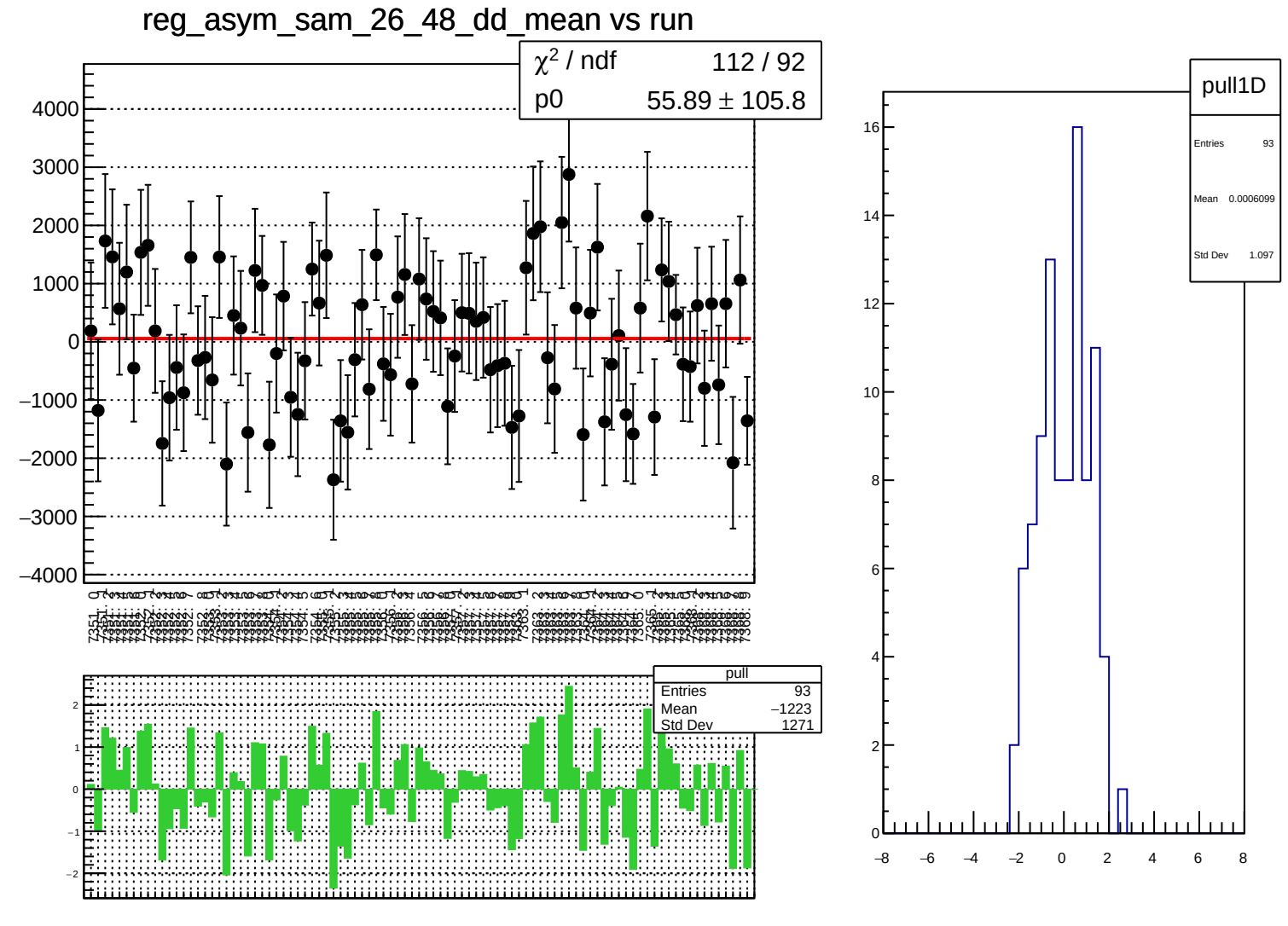

reg_asym_sam_24_68_dd_rms vs run
χ² / ndf 4631 / 92
p0 89.28 ± 0.06732
100
95
90
85
80

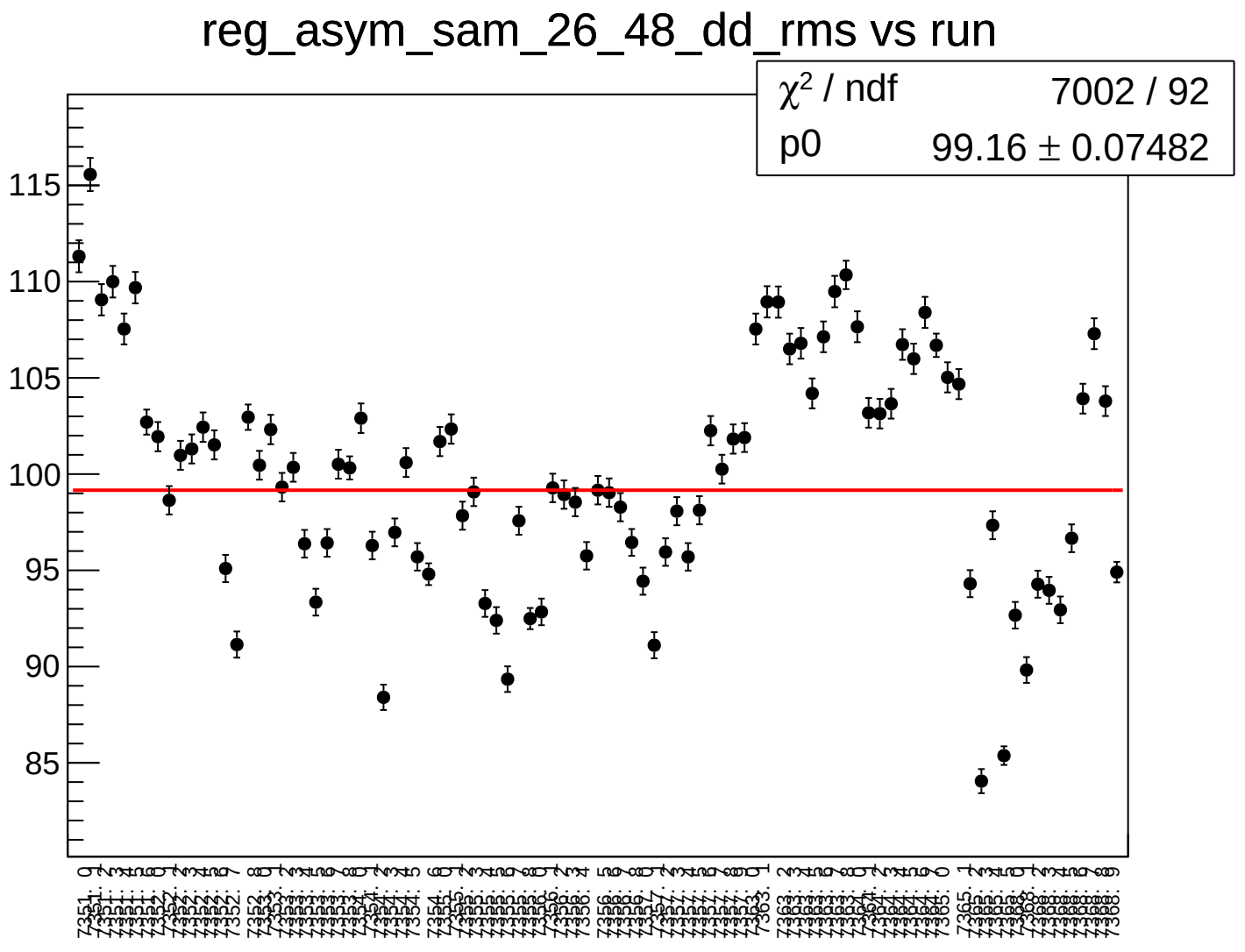

asym_sam_24_68_dd_correction_mean vs run
χ² / ndf 225.3 / 92
p0 1081 ± 831.9
pull
Entries 93
Mean 13.08
Std Dev 24.92
pull1D
Entries 93
Mean 0.0167
Std Dev 1.556

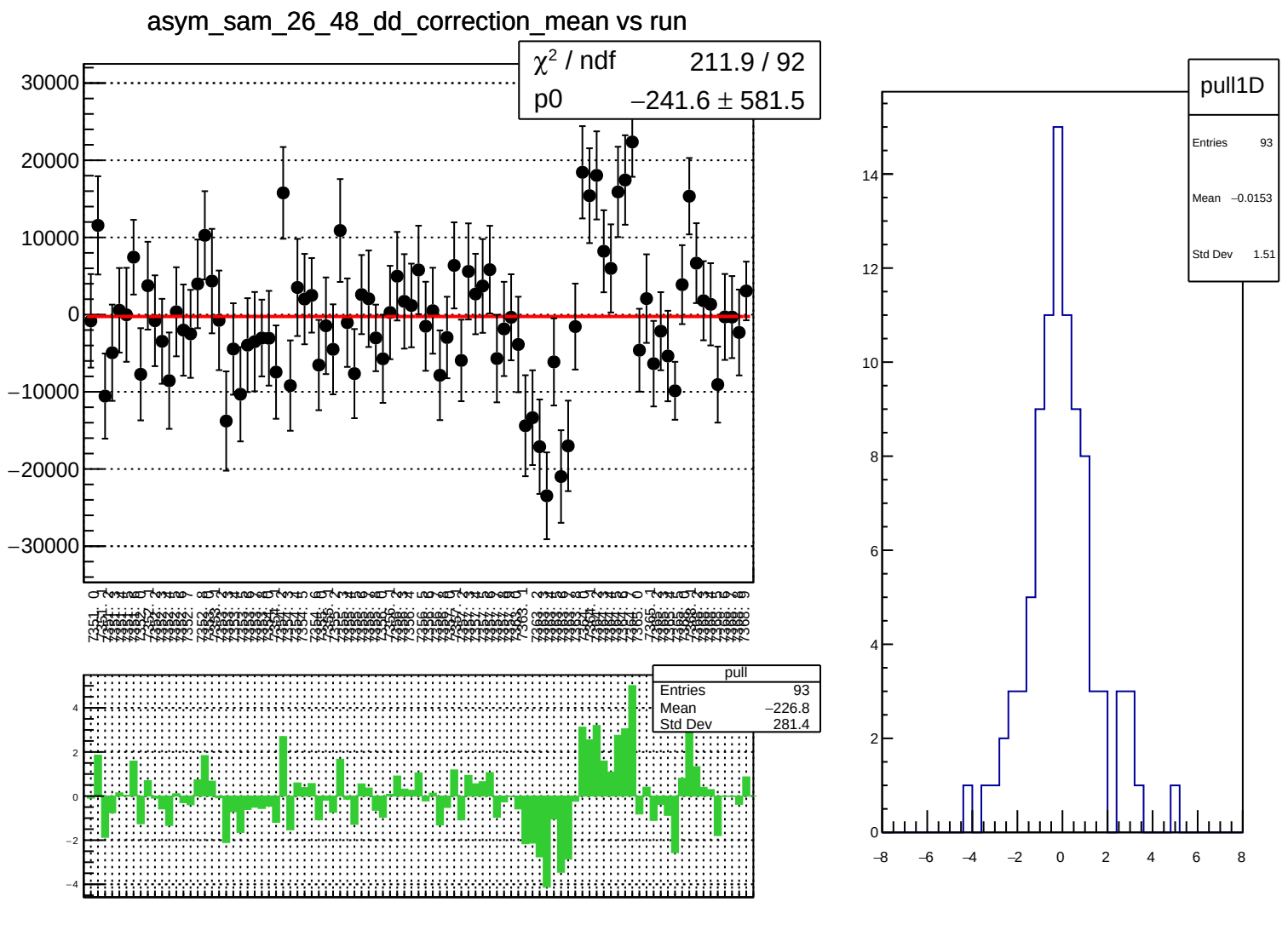

asym_sam_24_68_dd_correction_rms vs run
χ² / ndf 5873 / 92
p0 779.9 ± 0.5883
900
850
800
750
700

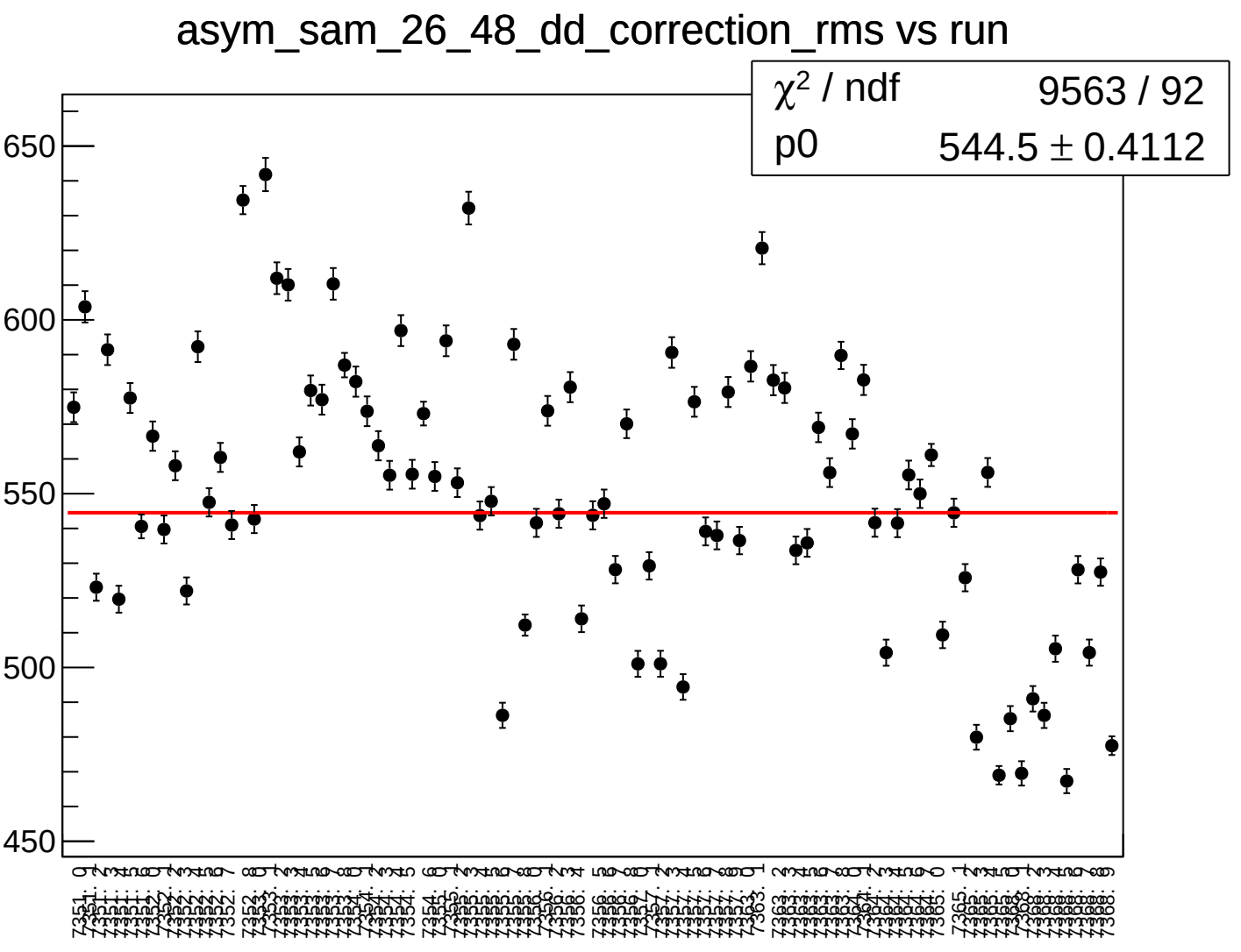

asym_sam_24_68_dd_mean vs run
χ² / ndf 232.1 / 92
p0 −1230 ± 837.4
pull
Entries 93
Mean −13.03
Std Dev 41.87
pull1D
Entries 93
Mean −0.0169
Std Dev 1.58

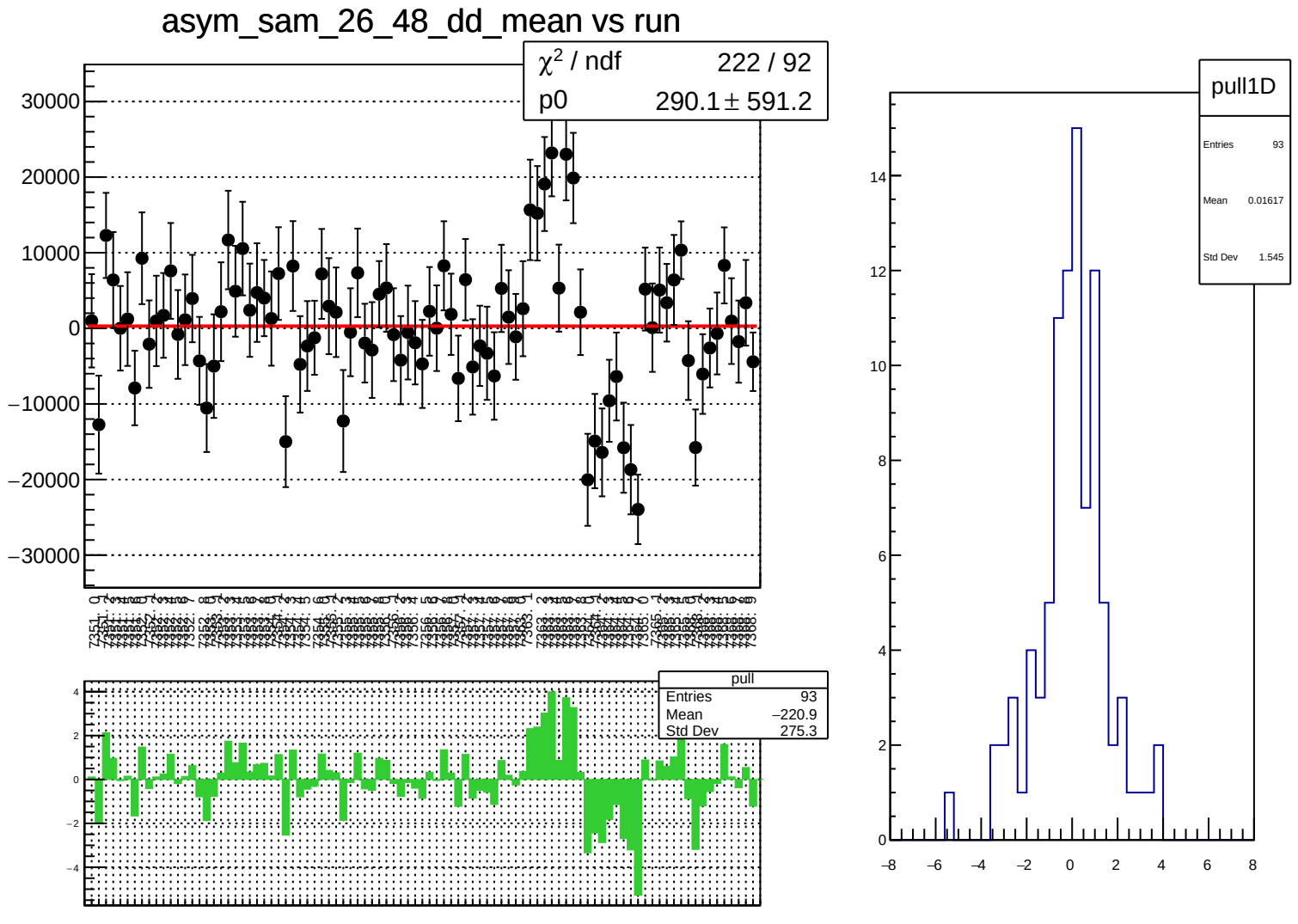

asym_sam_24_68_dd_rms vs run
χ² / ndf 5768 / 92
p0 785.1 ± 0.5922
900
850
800
750
700

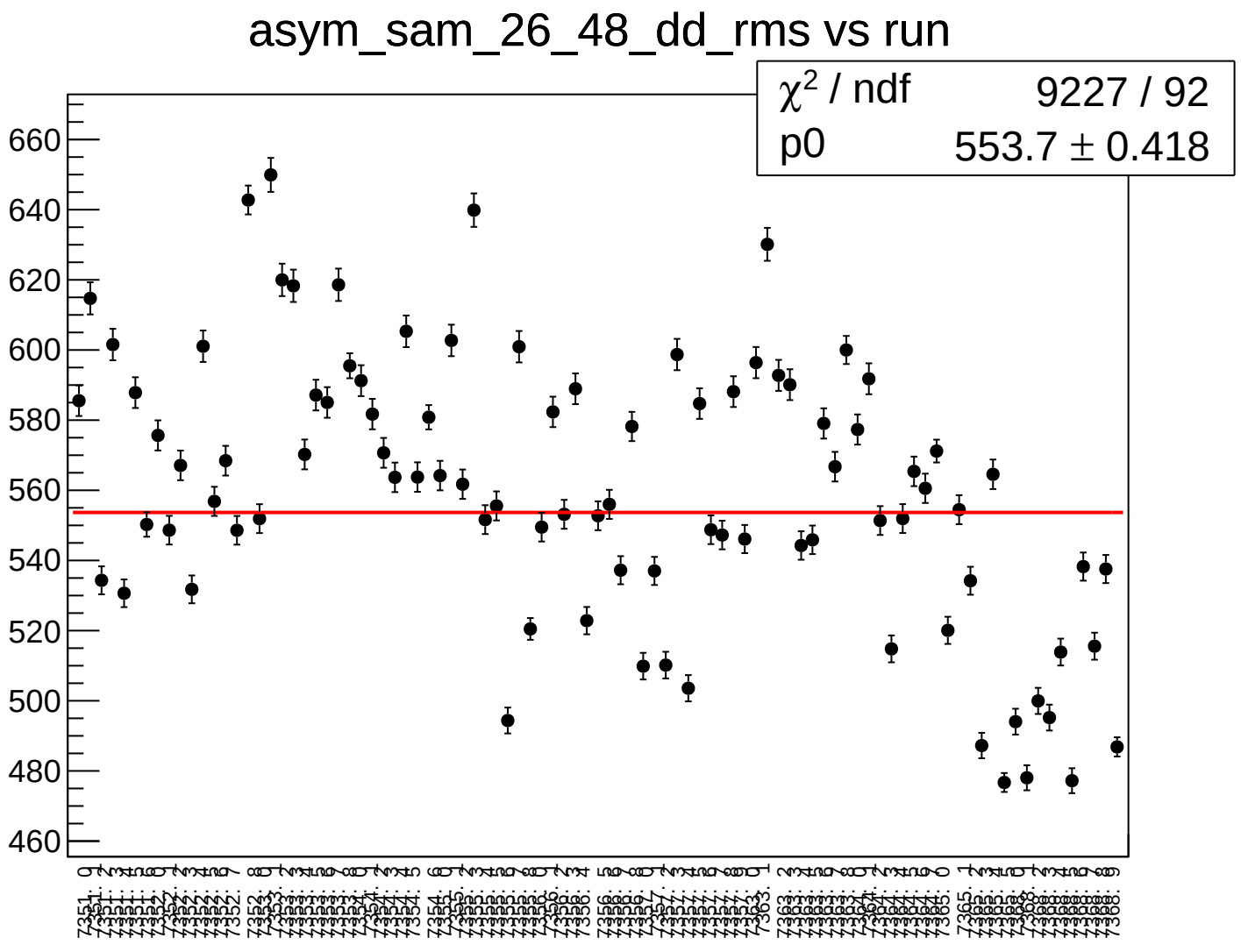

reg_asym_sam_26_48_dd_mean vs run
χ² / ndf 112 / 92
p0 55.89 ± 105.8
pull
Entries 93
Mean −1223
Std Dev 1271
pull1D
Entries 93
Mean 0.0006099
Std Dev 1.097

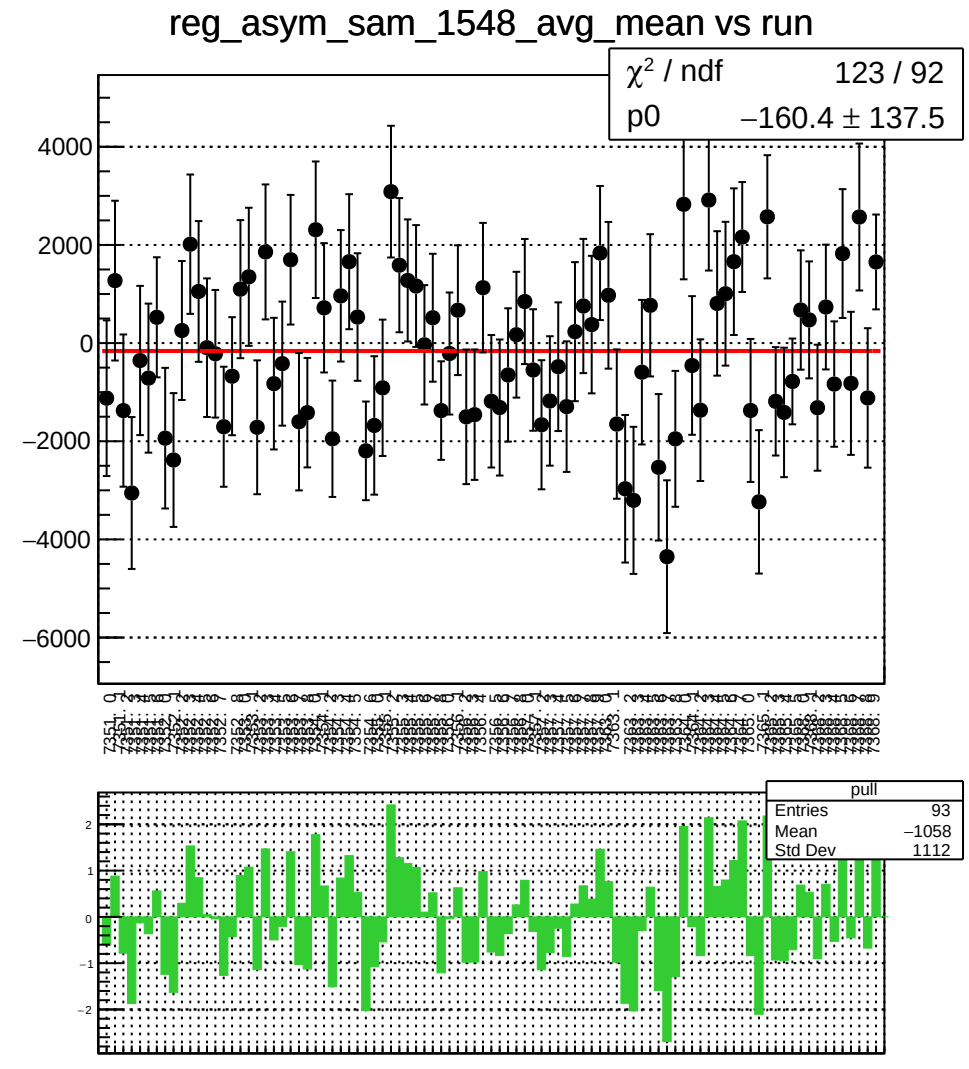

reg_asym_sam_26_48_dd_rms vs run
χ² / ndf 7002 / 92
p0 99.16 ± 0.07482
115
110
105
100
95
90
85

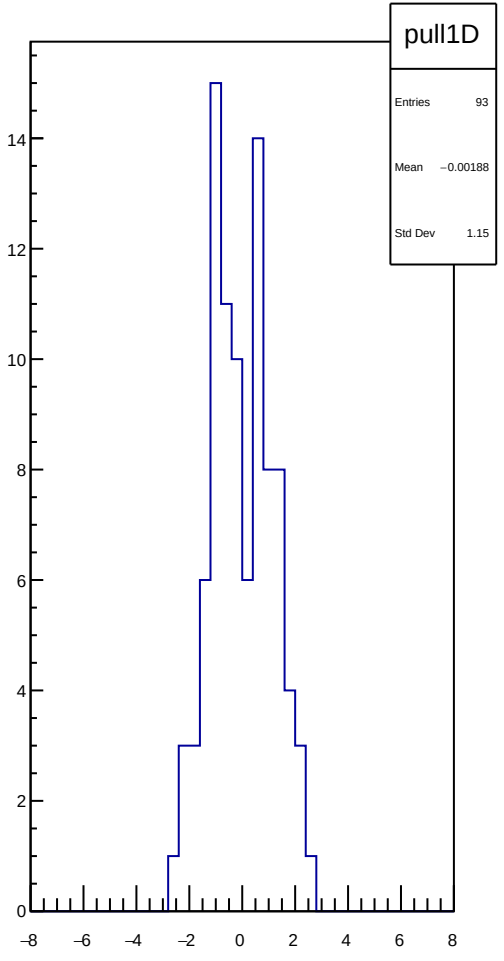

asym_sam_26_48_dd_correction_mean vs run
χ² / ndf 211.9 / 92
p0 −241.6 ± 581.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −226.8
Std Dev 281.4
pull1D
Entries 93
Mean −0.0153
Std Dev 1.51

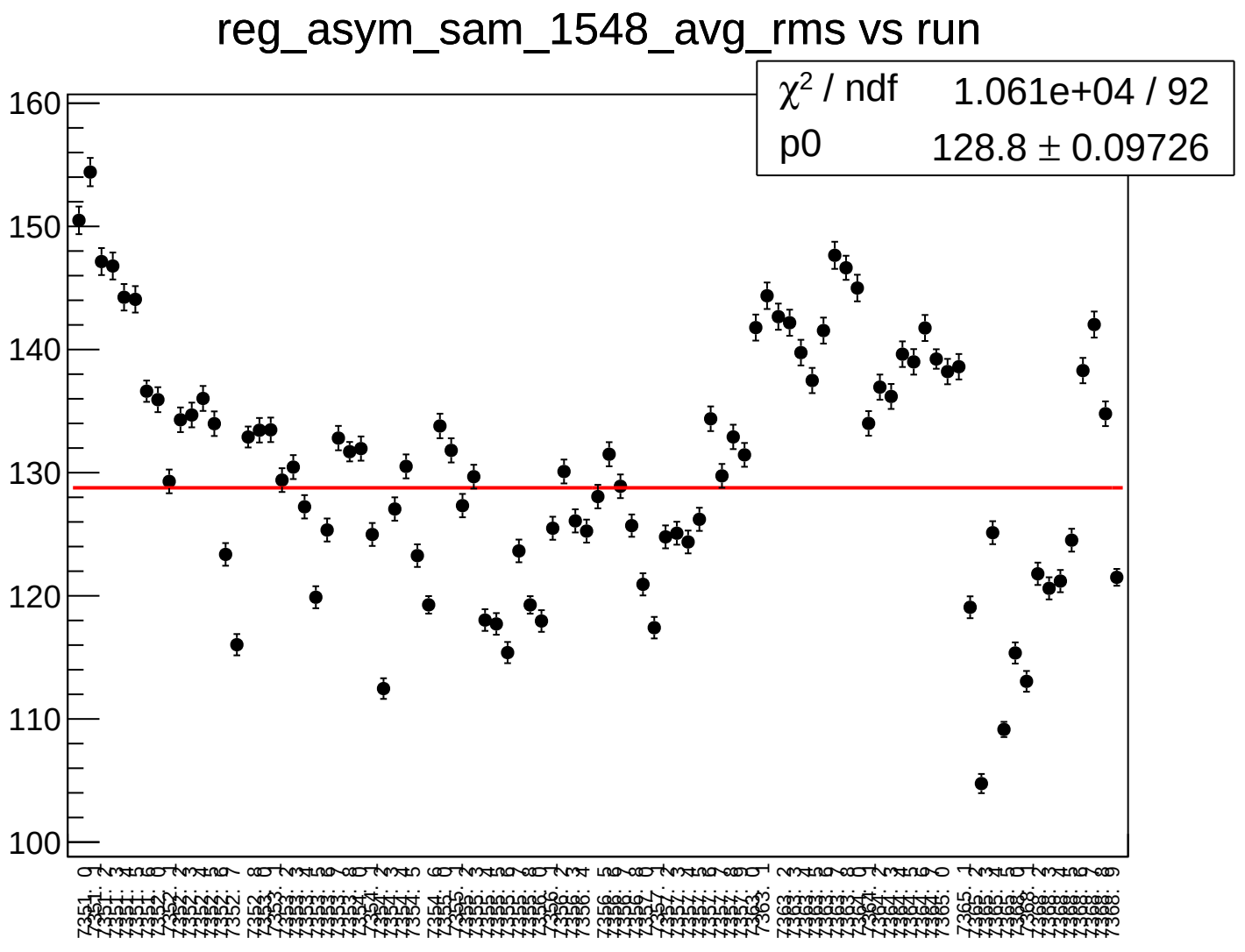

asym_sam_26_48_dd_correction_rms vs run
χ² / ndf 9563 / 92
p0 544.5 ± 0.4112
650
600
550
500
450

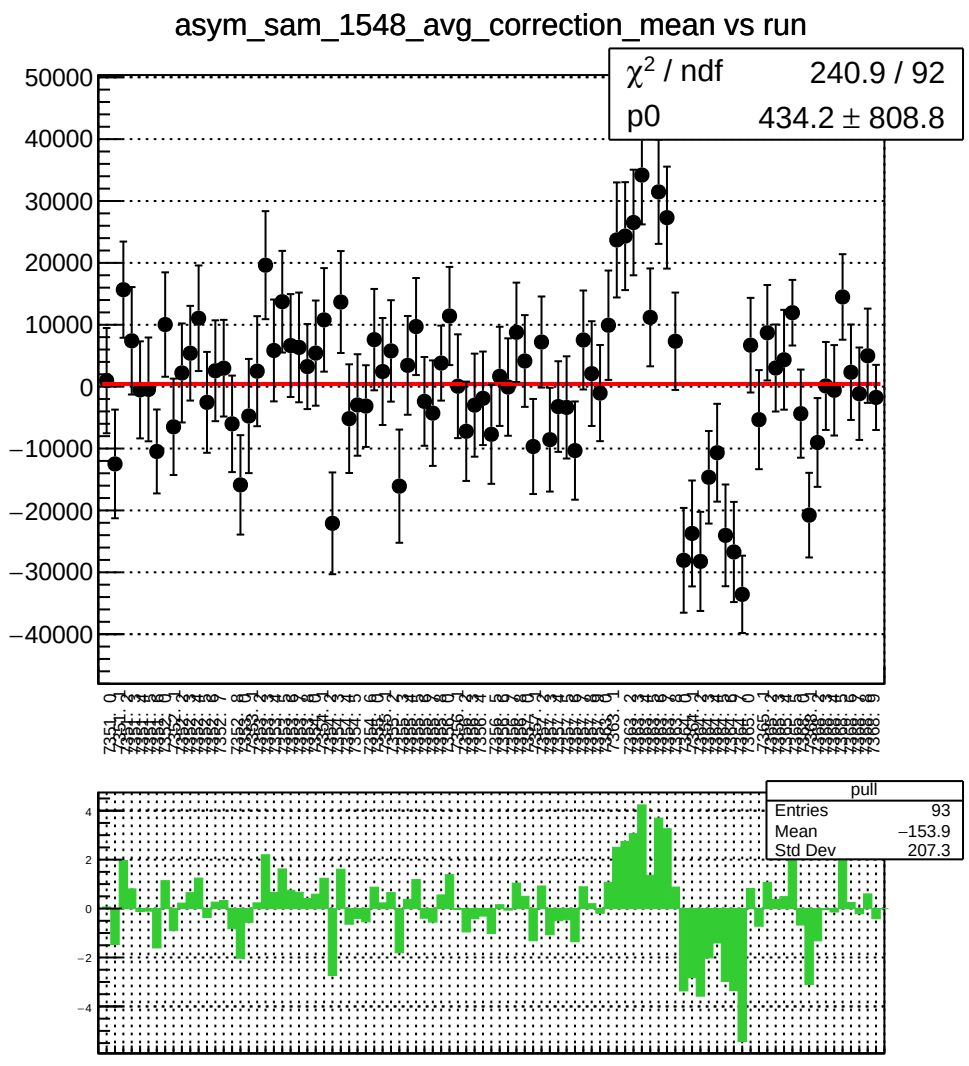

asym_sam_26_48_dd_mean vs run
χ² / ndf 222 / 92
p0 290.1 ± 591.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −220.9
Std Dev 275.3
4
2
0
−2
−4
pull1D
Entries 93
Mean 0.01617
Std Dev 1.545
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

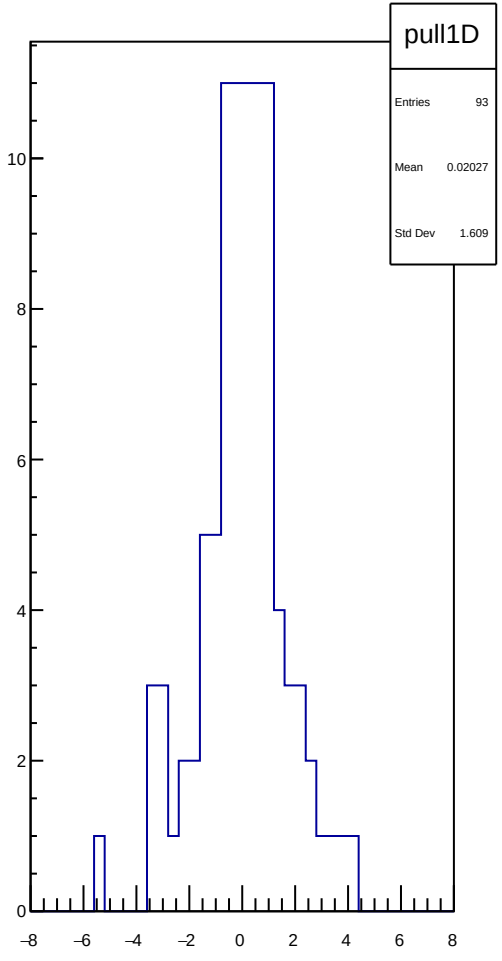

asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9227 / 92
p0 553.7 ± 0.418
660
640
620
600
580
560
540
520
500
480
460

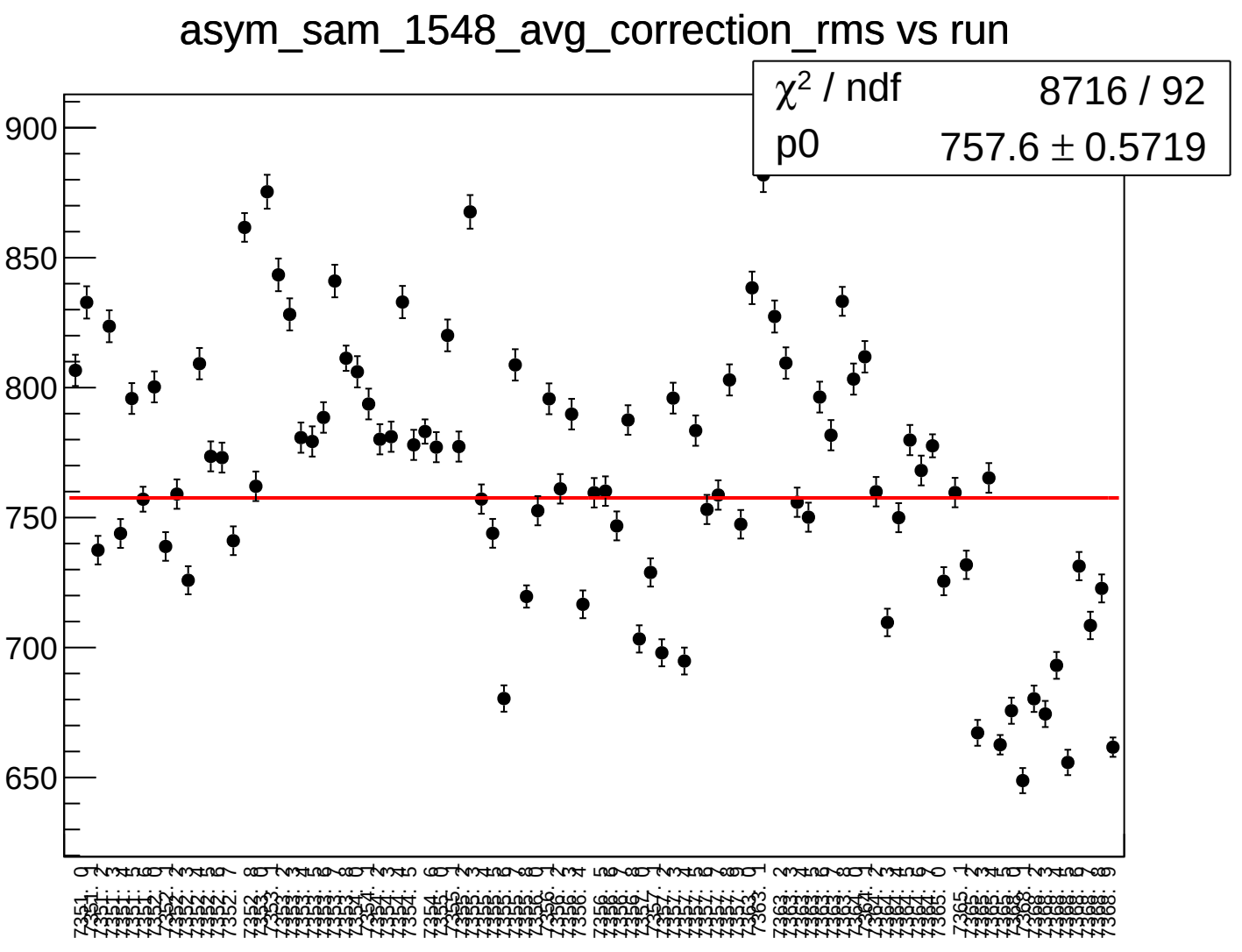

reg_asym_sam_1548_avg_mean vs run
χ² / ndf 123 / 92
p0 −160.4 ± 137.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean −1058
Std Dev 1112
2
1
0
−1
−2

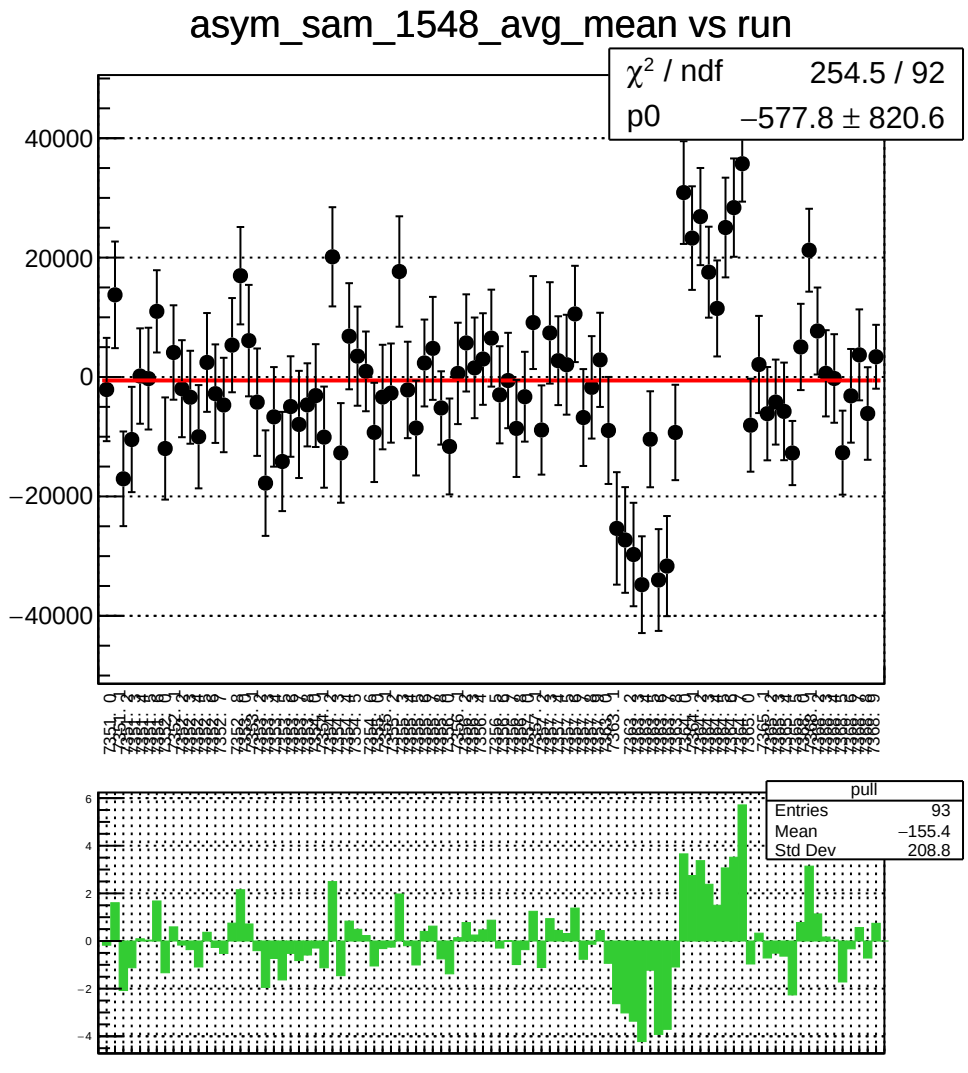

pull1D
Entries 93
Mean −0.00188
Std Dev 1.15
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

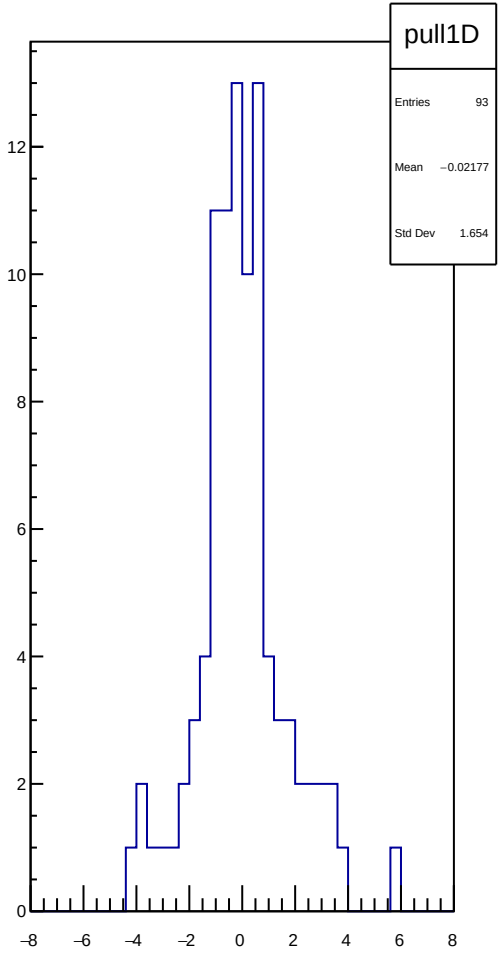

reg_asym_sam_1548_avg_rms vs run
χ² / ndf 1.061e+04 / 92
p0 128.8 ± 0.09726
160
150
140
130
120
110
100

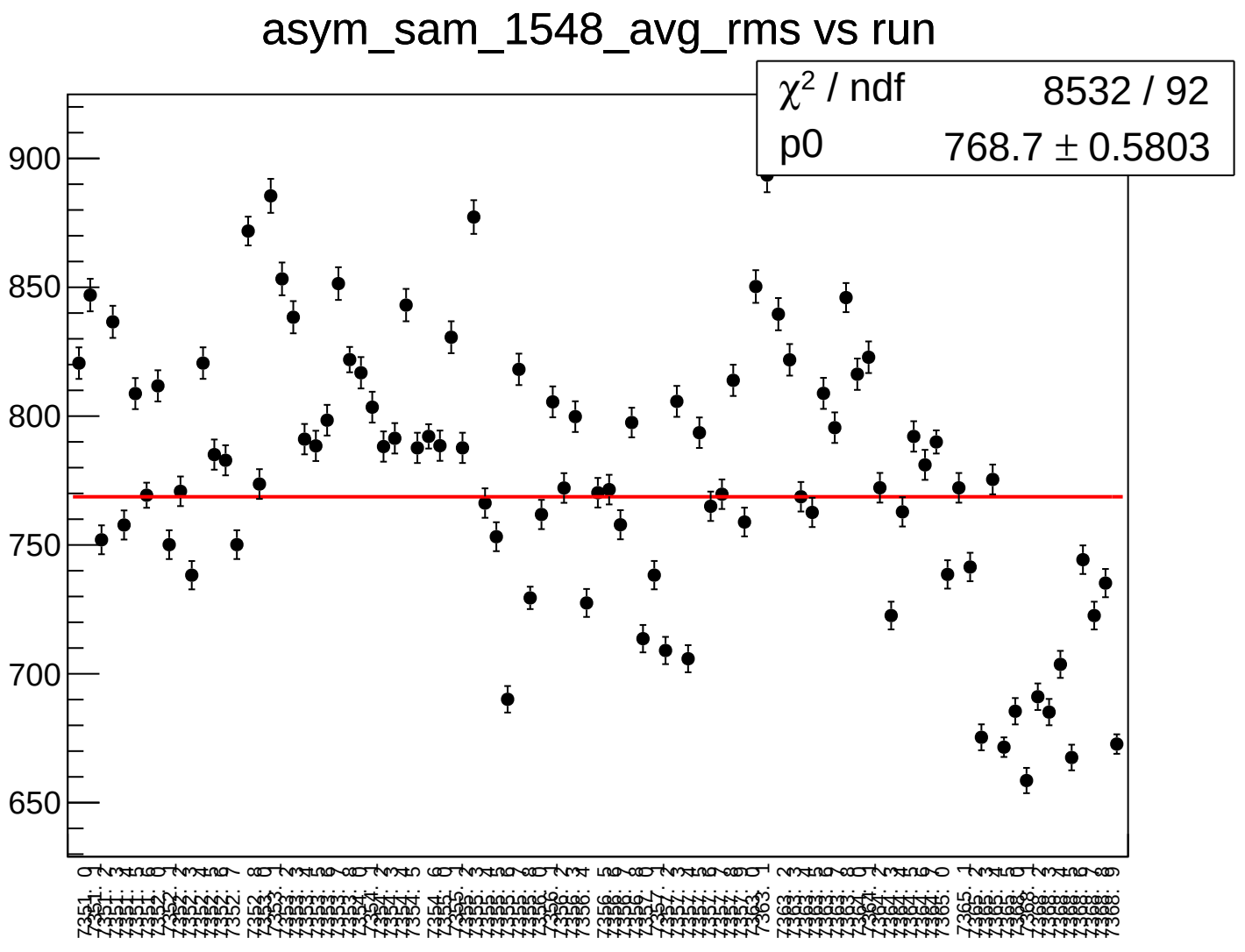

asym_sam_1548_avg_correction_mean vs run
χ² / ndf 240.9 / 92
p0 434.2 ± 808.8
50000
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −153.9
Std Dev 207.3
4
2
0
−2
−4

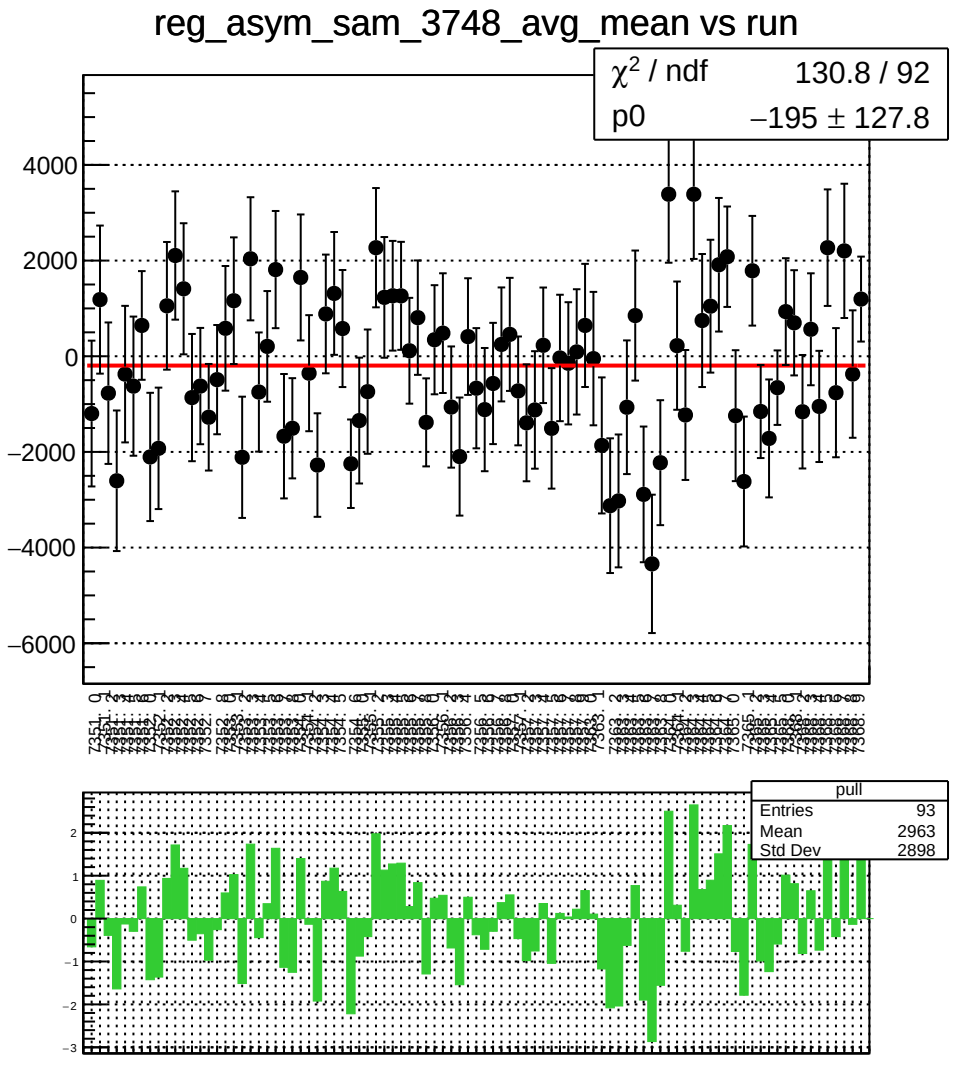

pull1D
Entries 93
Mean 0.02027
Std Dev 1.609
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

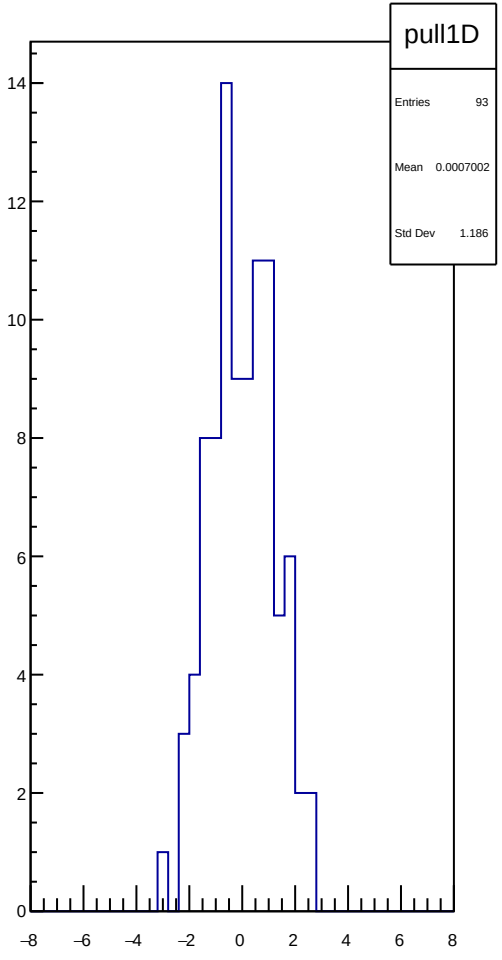

asym_sam_1548_avg_correction_rms vs run
χ² / ndf 8716 / 92
p0 757.6 ± 0.5719
900
850
800
750
700
650

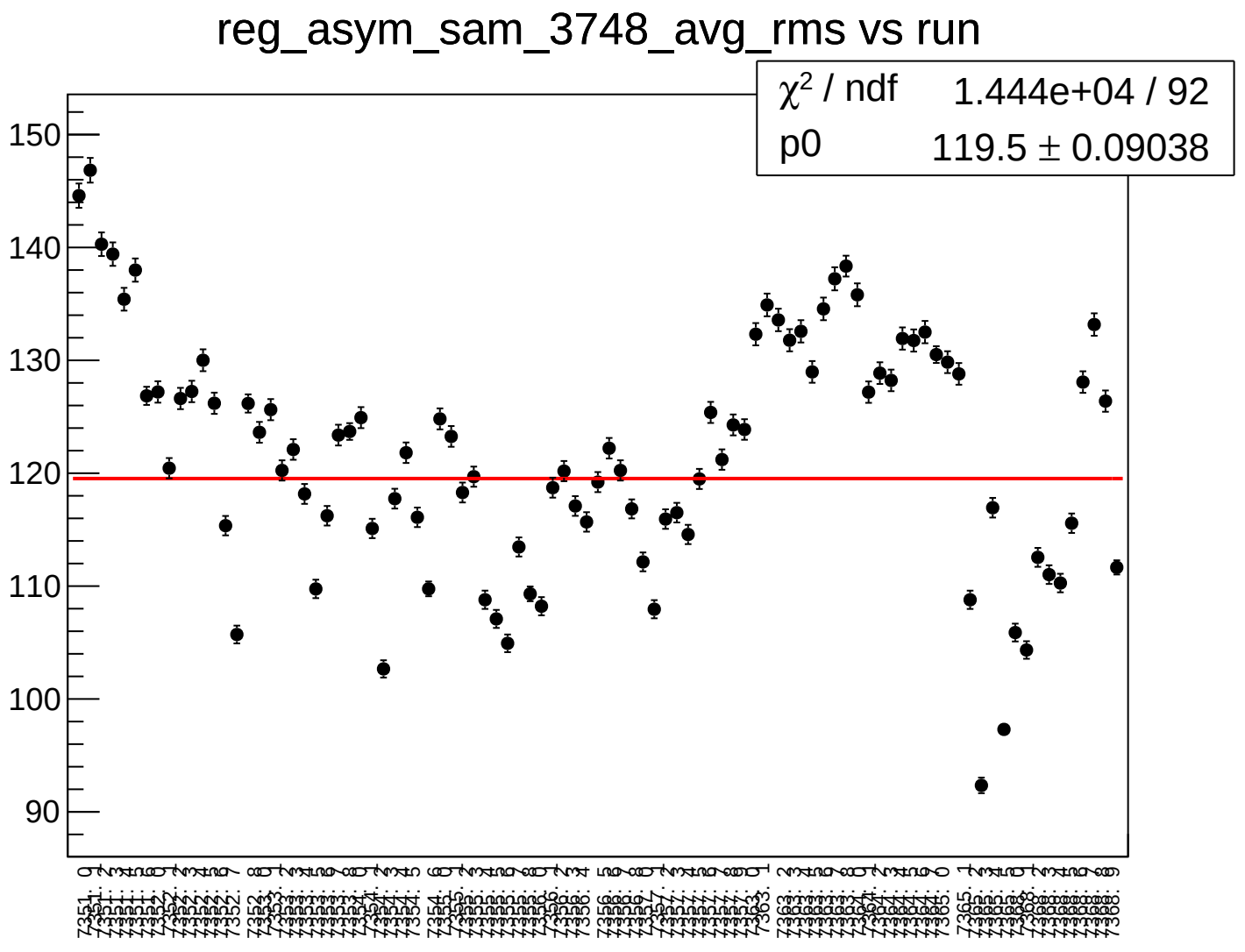

asym_sam_1548_avg_mean vs run
χ² / ndf 254.5 / 92
p0 −577.8 ± 820.6
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −155.4
Std Dev 208.8
6
4
2
0
−2
−4

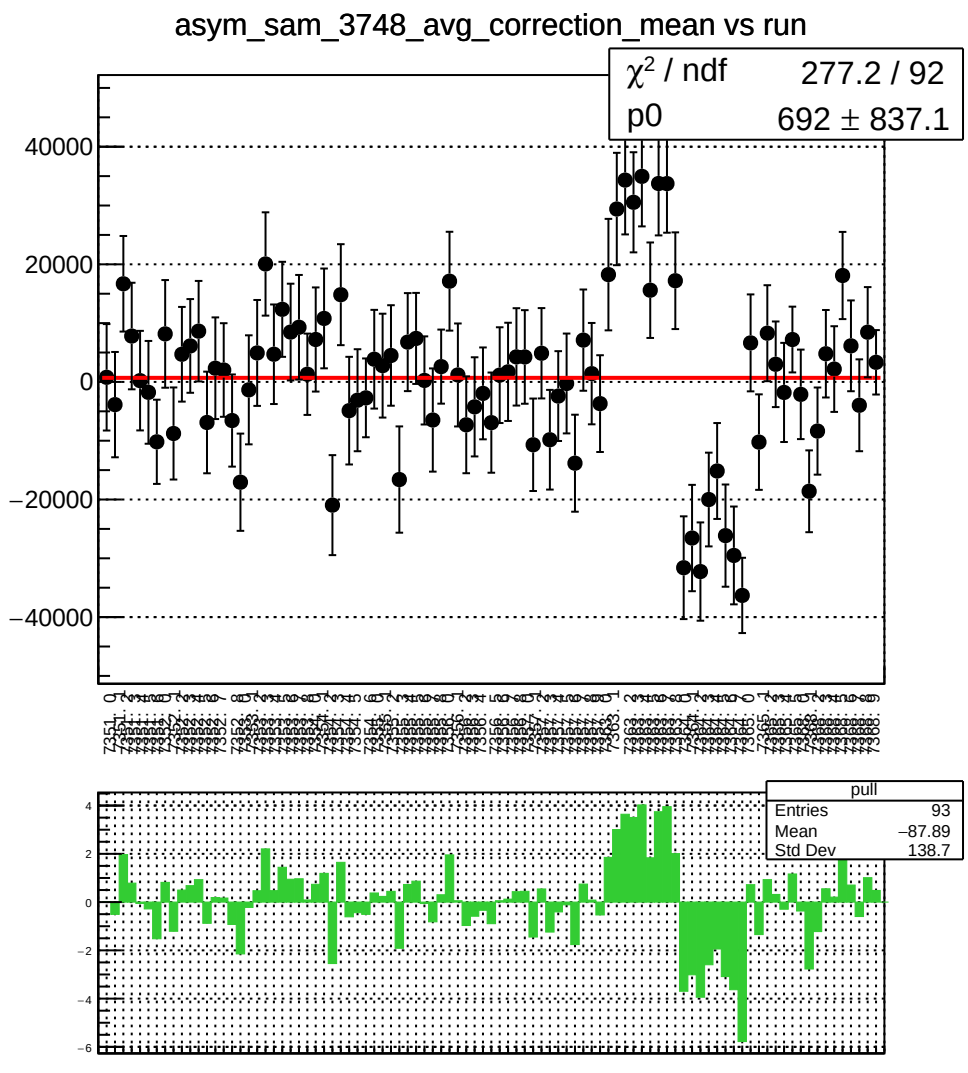

pull1D
Entries 93
Mean −0.02177
Std Dev 1.654
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

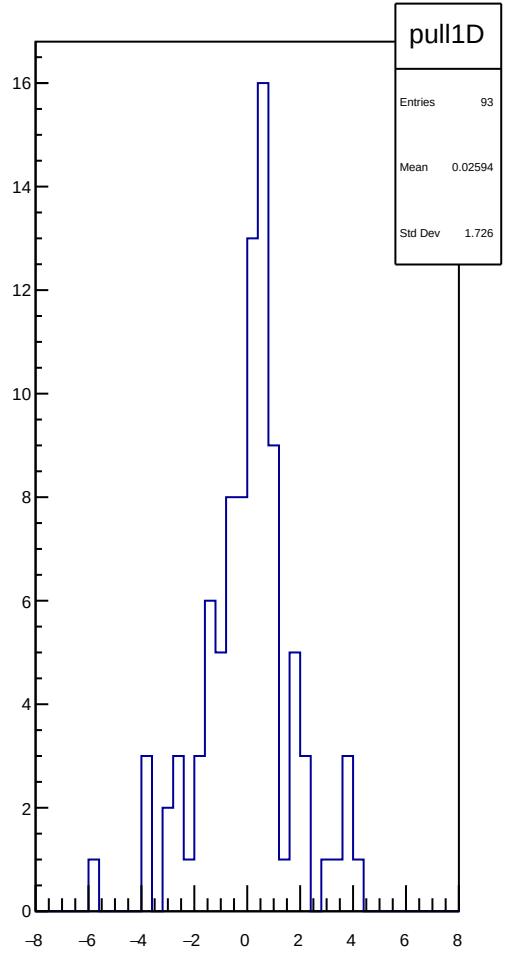

asym_sam_1548_avg_rms vs run
χ^2 / ndf 8532 / 92
p0 768.7 ± 0.5803
900
850
800
750
700
650

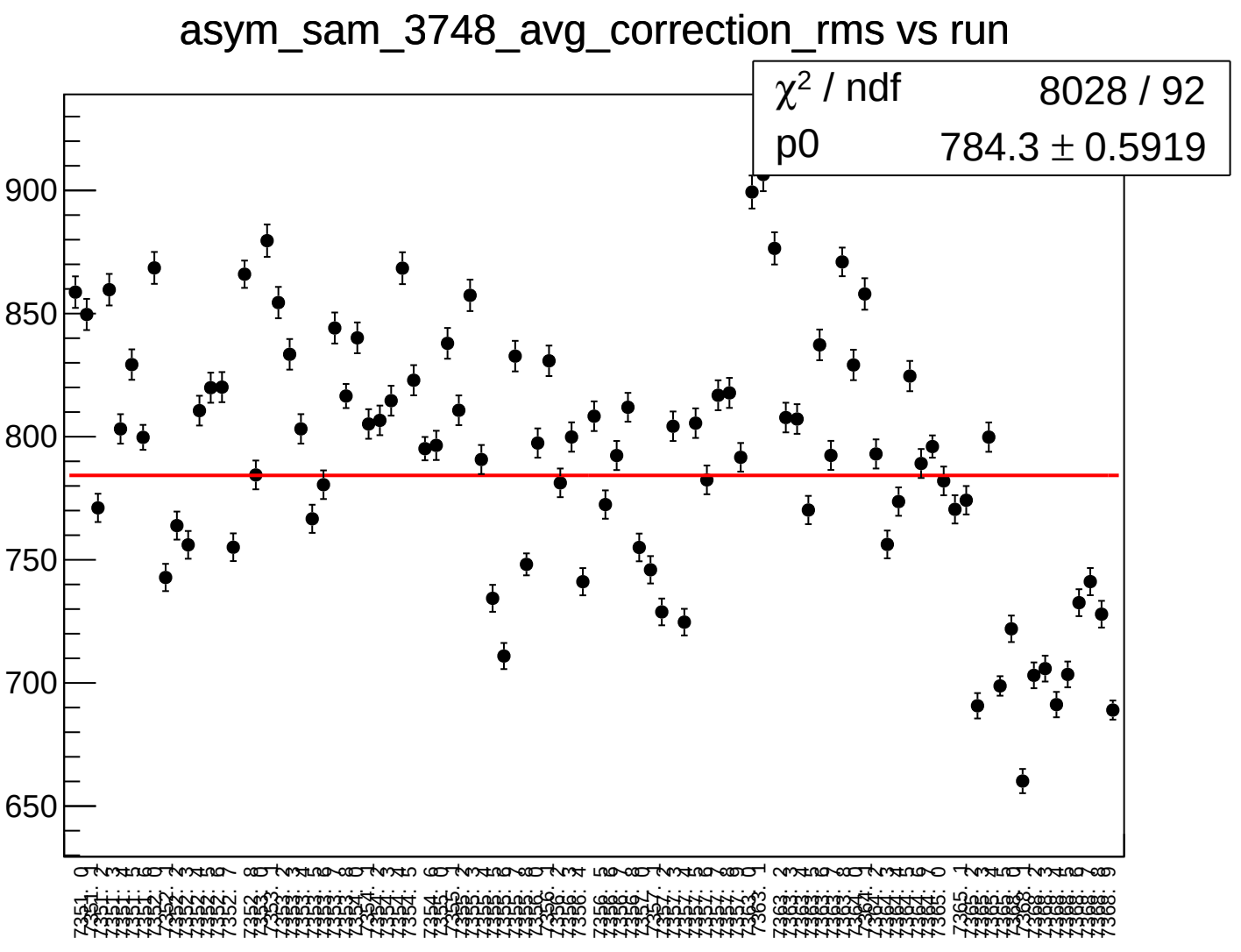

reg_asym_sam_3748_avg_mean vs run
χ² / ndf 130.8 / 92
p0 −195 ± 127.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 93
Mean 2963
Std Dev 2898
2
1
0
−1
−2
−3

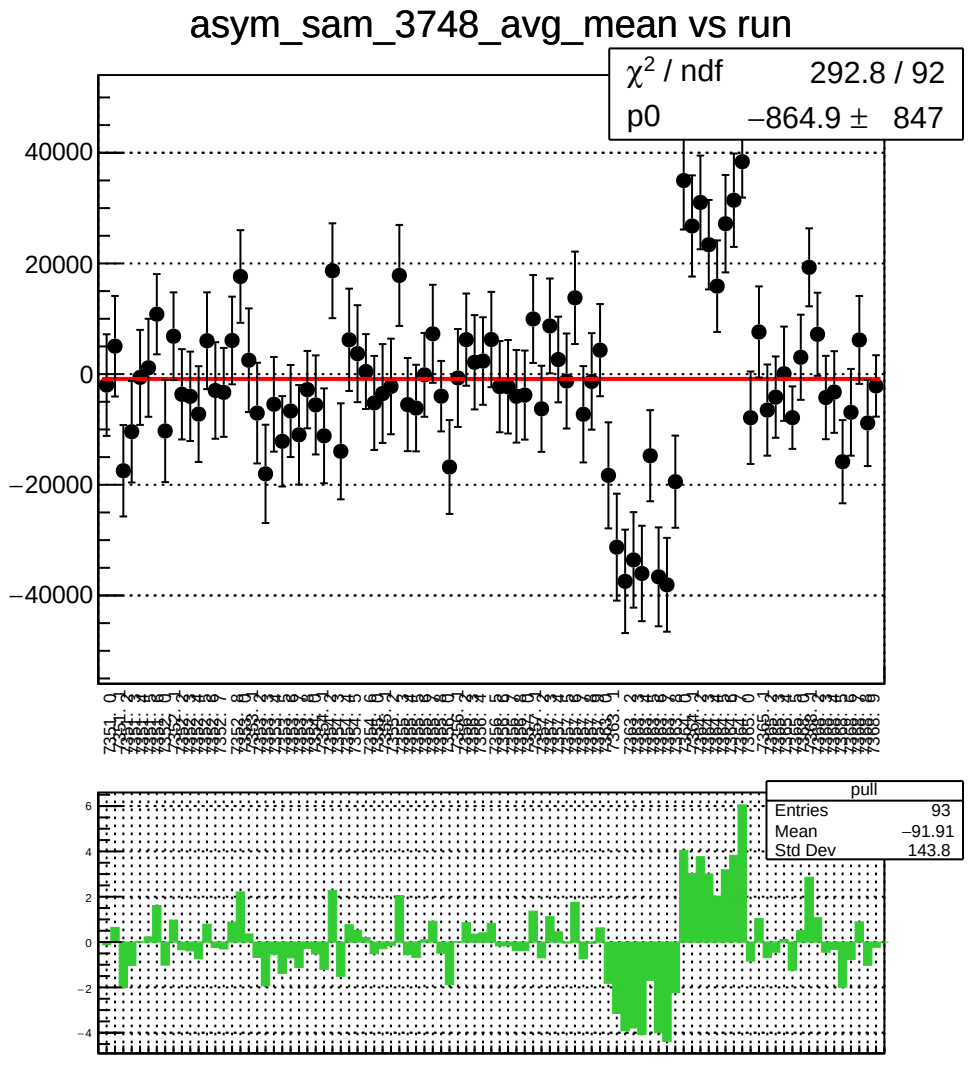

pull1D
Entries 93
Mean 0.0007002
Std Dev 1.186
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

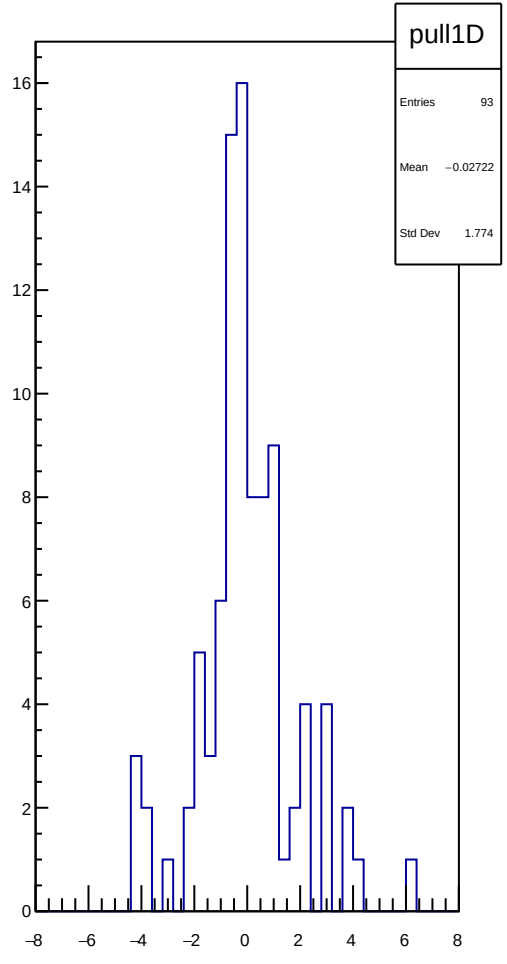

reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 1.444e+04 / 92
p0 119.5 ± 0.09038
150
140
130
120
110
100
90

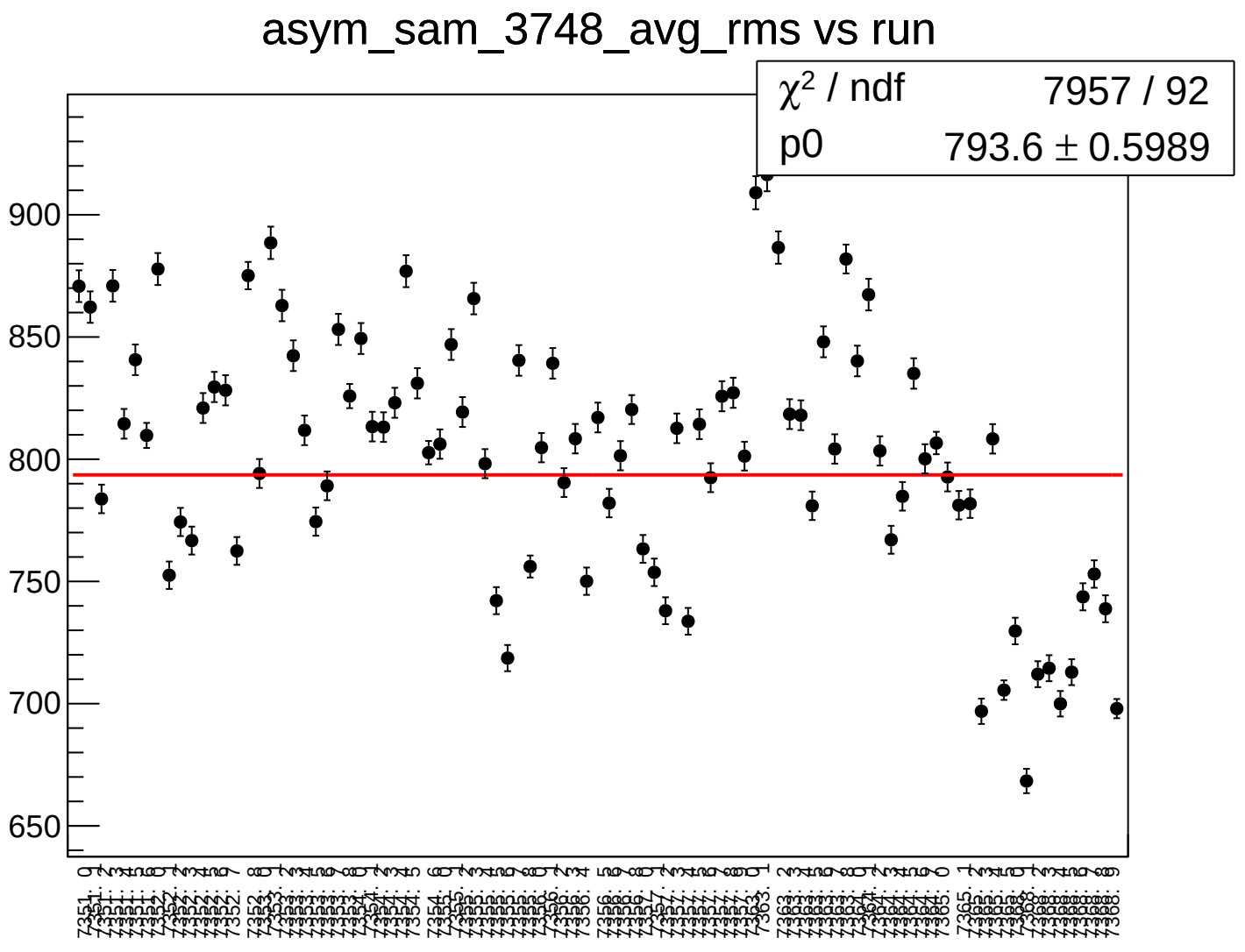

asym_sam_3748_avg_correction_mean vs run
χ² / ndf 277.2 / 92
p0 692 ± 837.1
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −87.89
Std Dev 138.7
4
2
0
−2
−4
−6

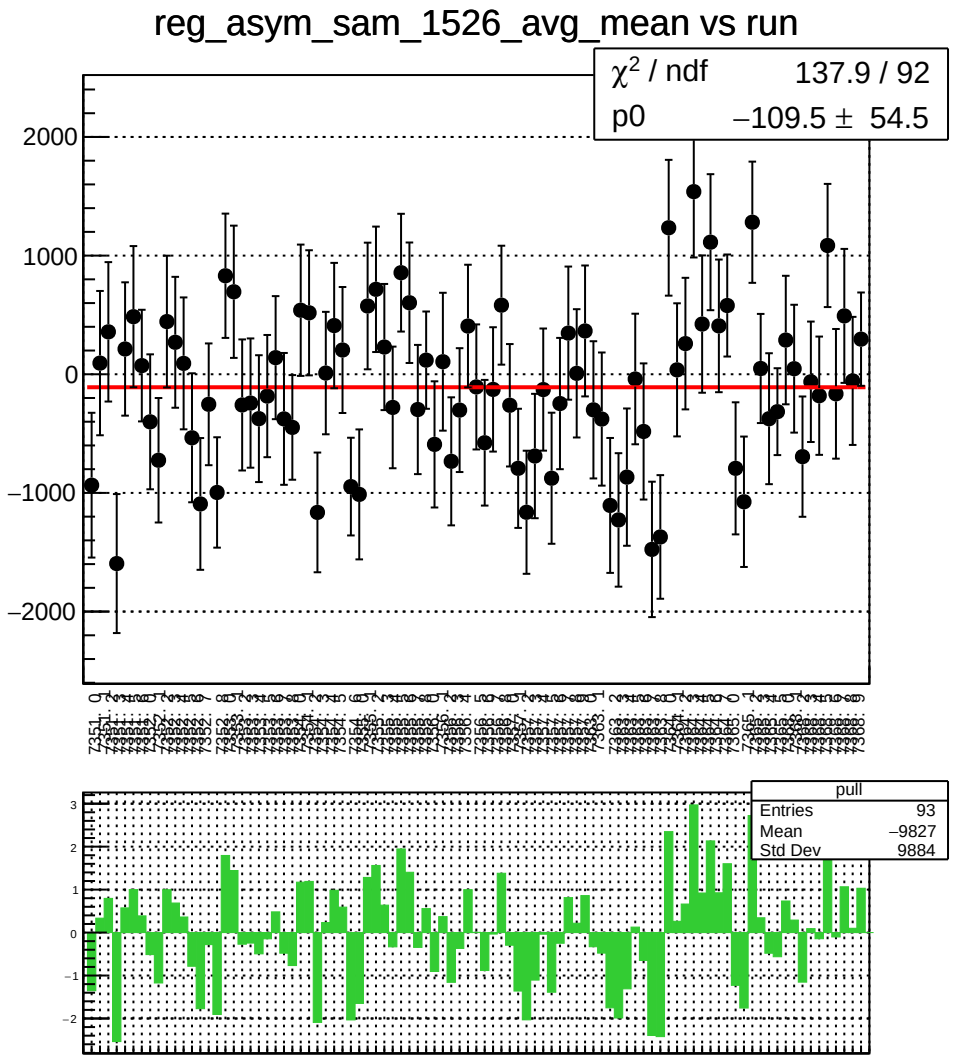

pull1D
Entries 93
Mean 0.02594
Std Dev 1.726
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

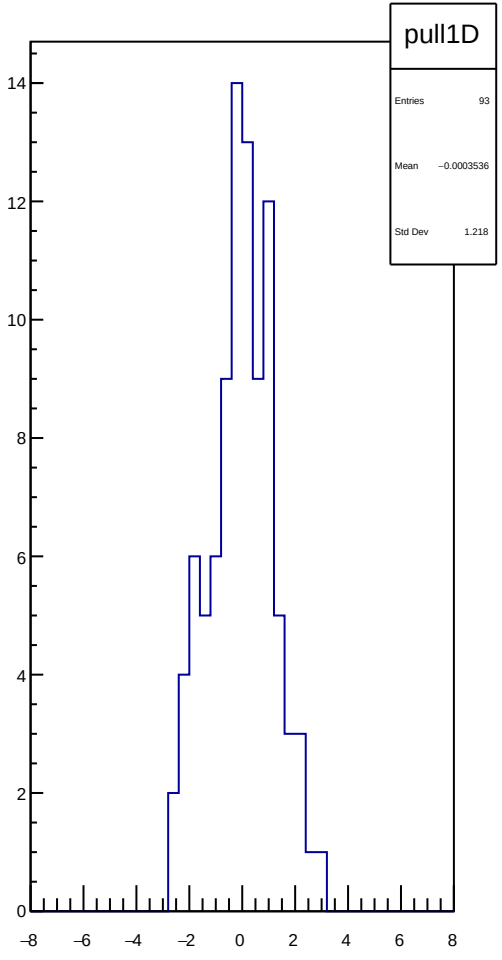

asym_sam_3748_avg_correction_rms vs run
χ² / ndf 8028 / 92
p0 784.3 ± 0.5919
900
850
800
750
700
650

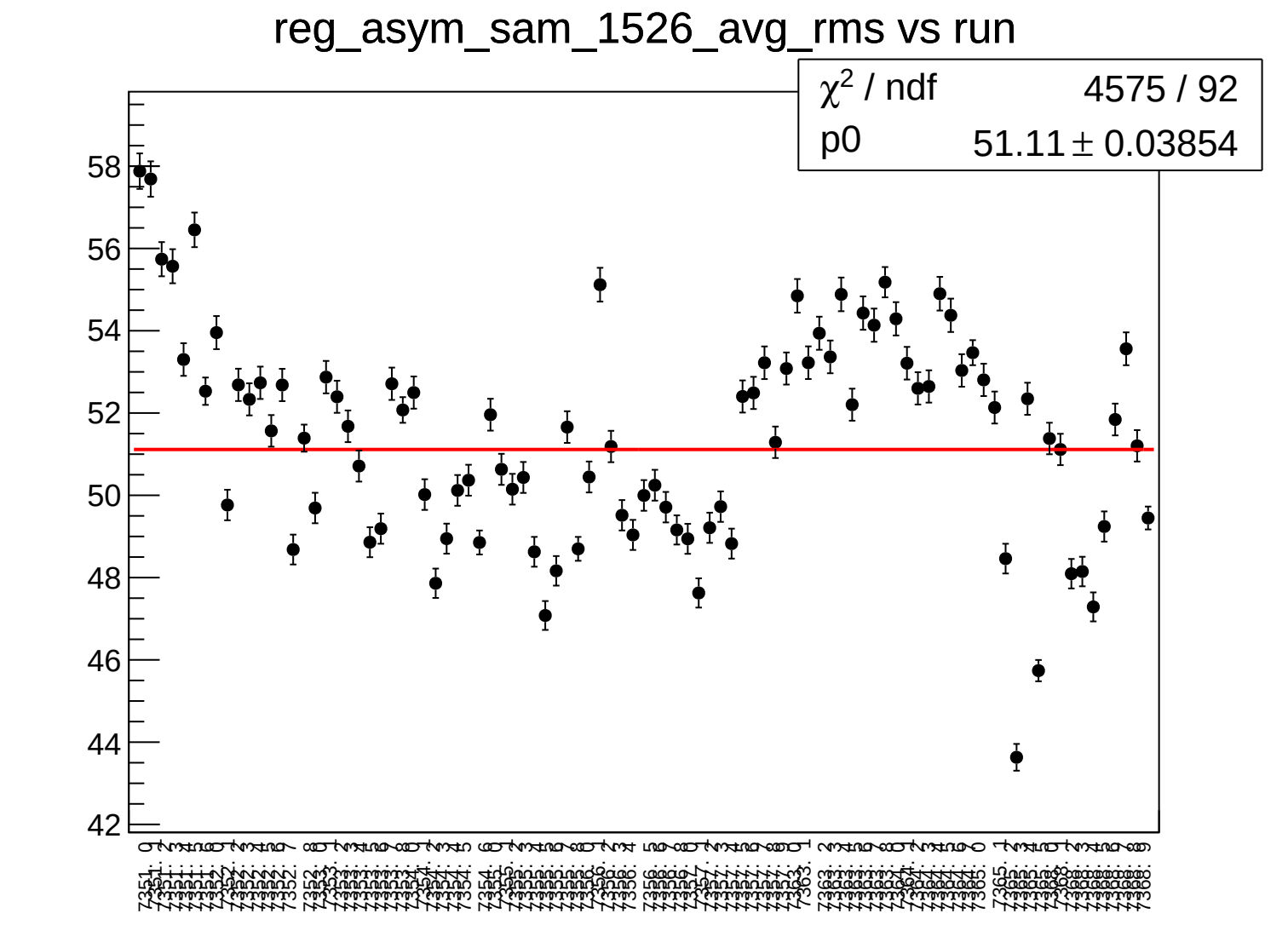

asym_sam_3748_avg_mean vs run
χ² / ndf 292.8 / 92
p0 −864.9 ± 847
40000
20000
0
−20000
−40000
pull
Entries 93
Mean −91.91
Std Dev 143.8
6
4
2
0
−2
−4

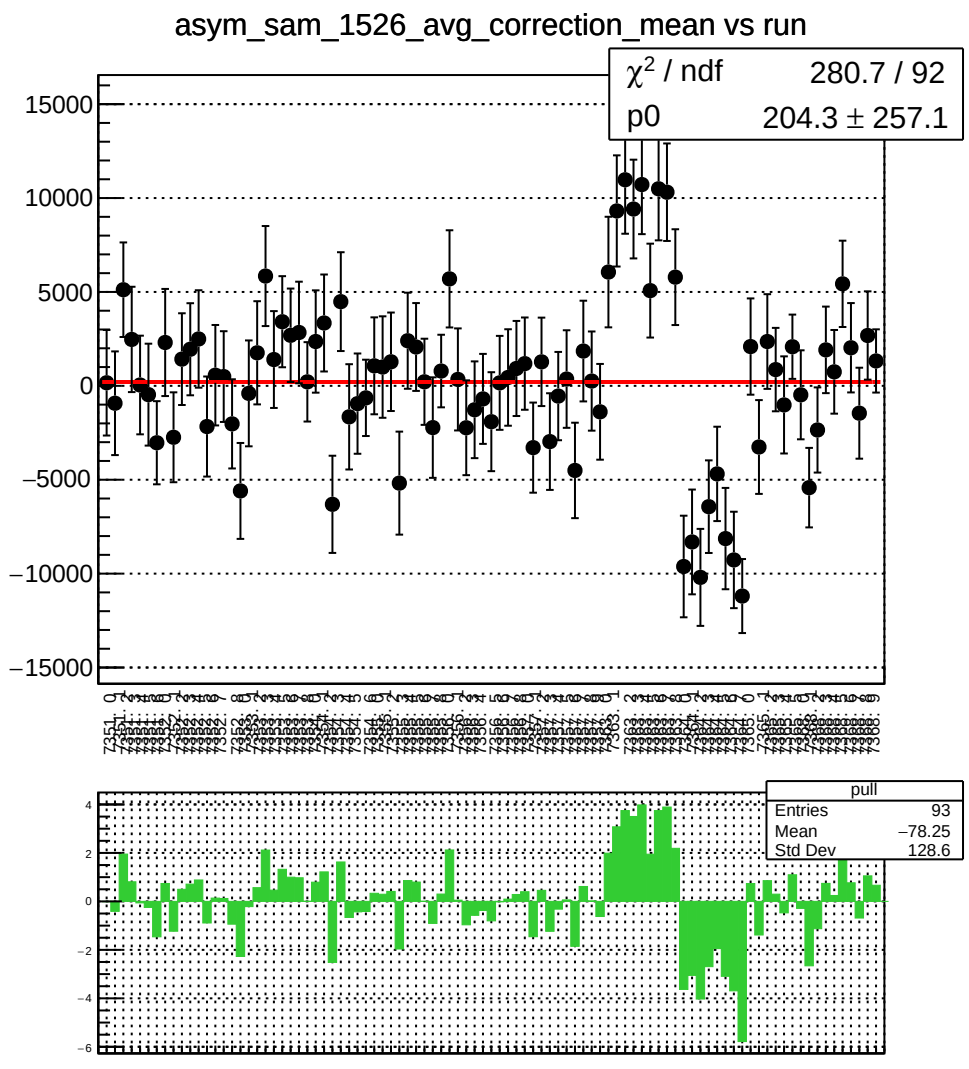

pull1D
Entries 93
Mean −0.02722
Std Dev 1.774
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

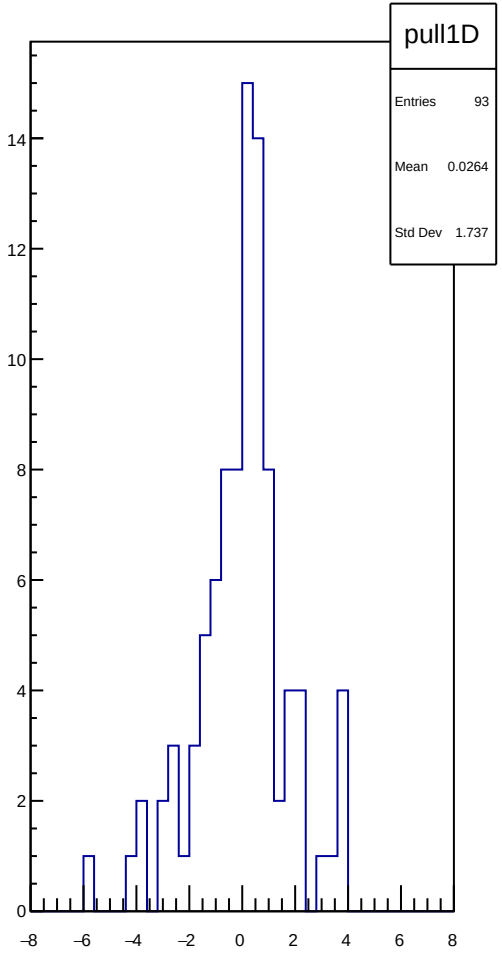

asym_sam_3748_avg_rms vs run
χ² / ndf 7957 / 92
p0 793.6 ± 0.5989
900
850
800
750
700
650

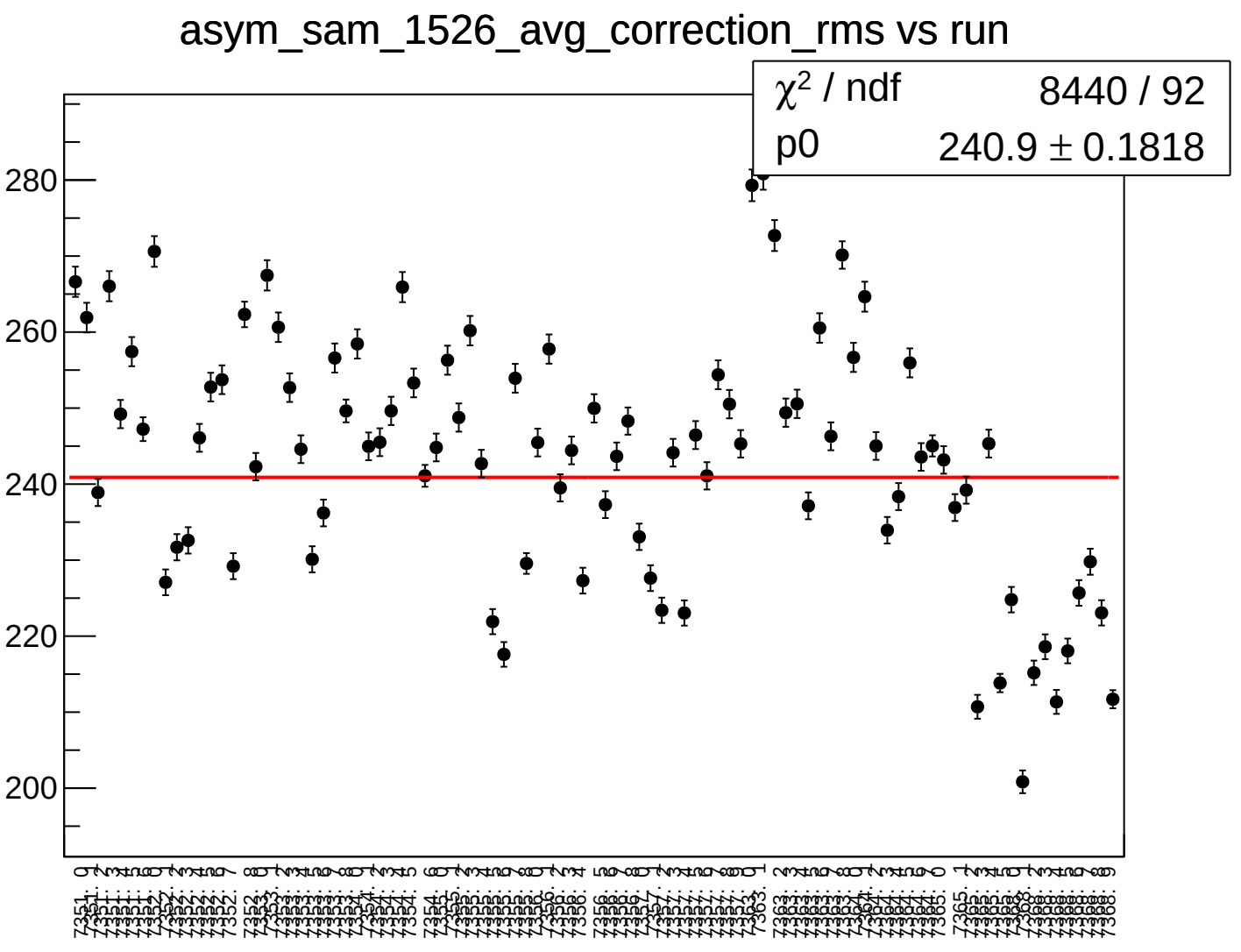

reg_asym_sam_1526_avg_mean vs run
χ² / ndf 137.9 / 92
p0 −109.5 ± 54.5
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −9827
Std Dev 9884
3
2
1
0
−1
−2

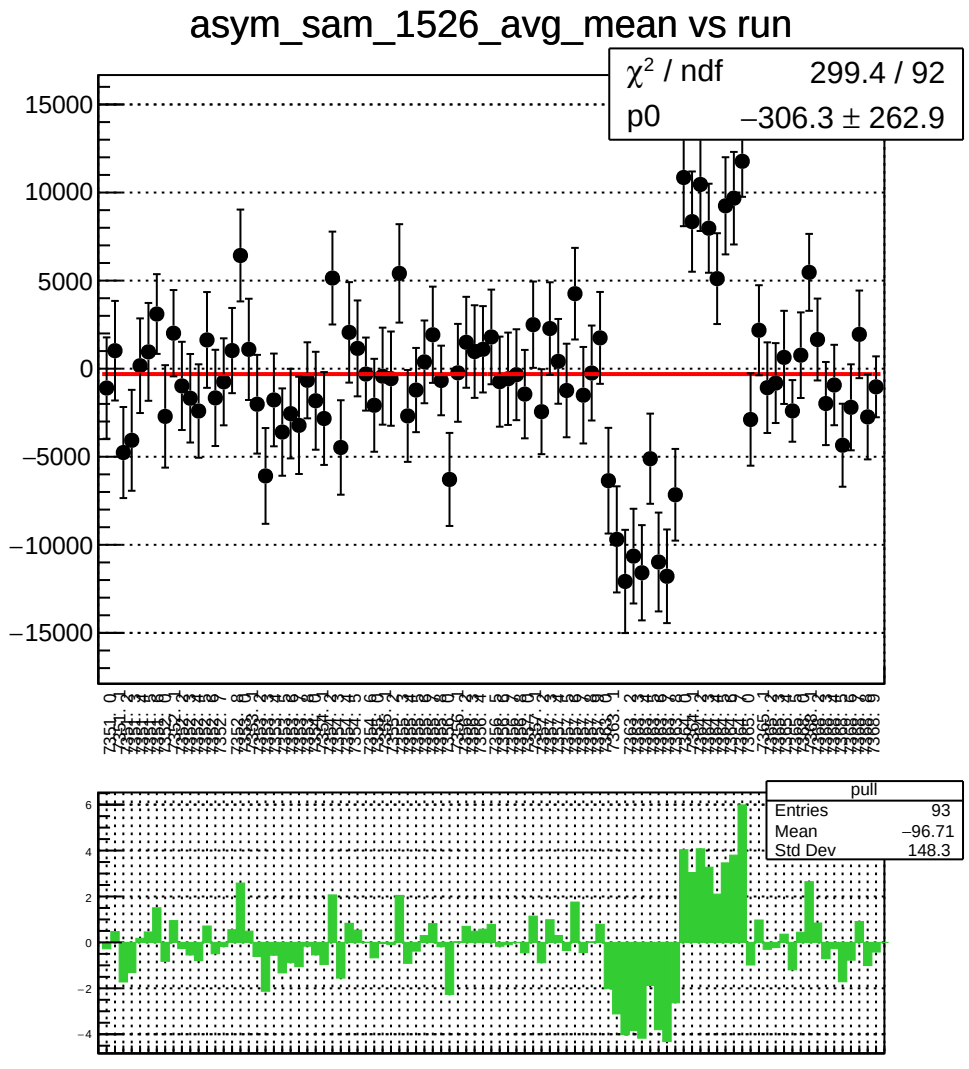

pull1D
Entries 93
Mean −0.0003536
Std Dev 1.218
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

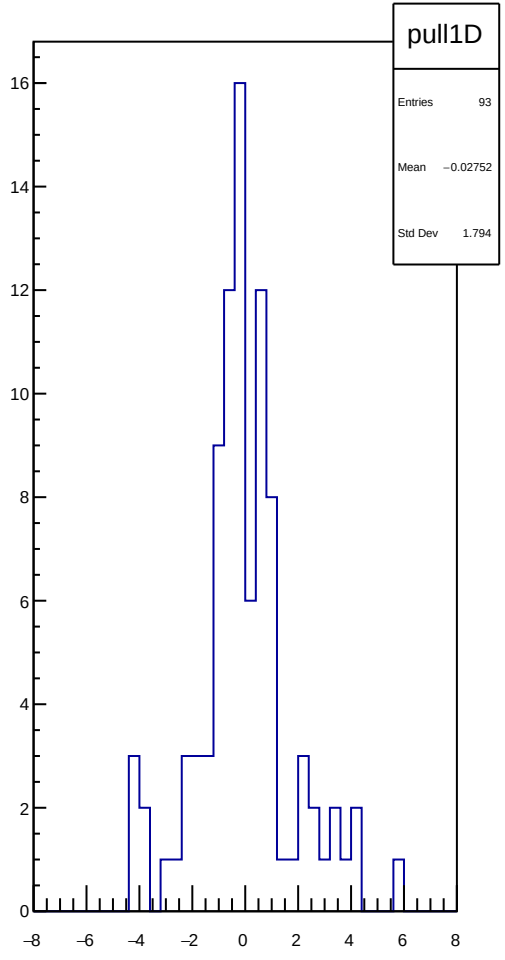

reg_asym_sam_1526_avg_rms vs run
χ² / ndf 4575 / 92
p0 51.11 ± 0.03854
58
56
54
52
50
48
46
44
42

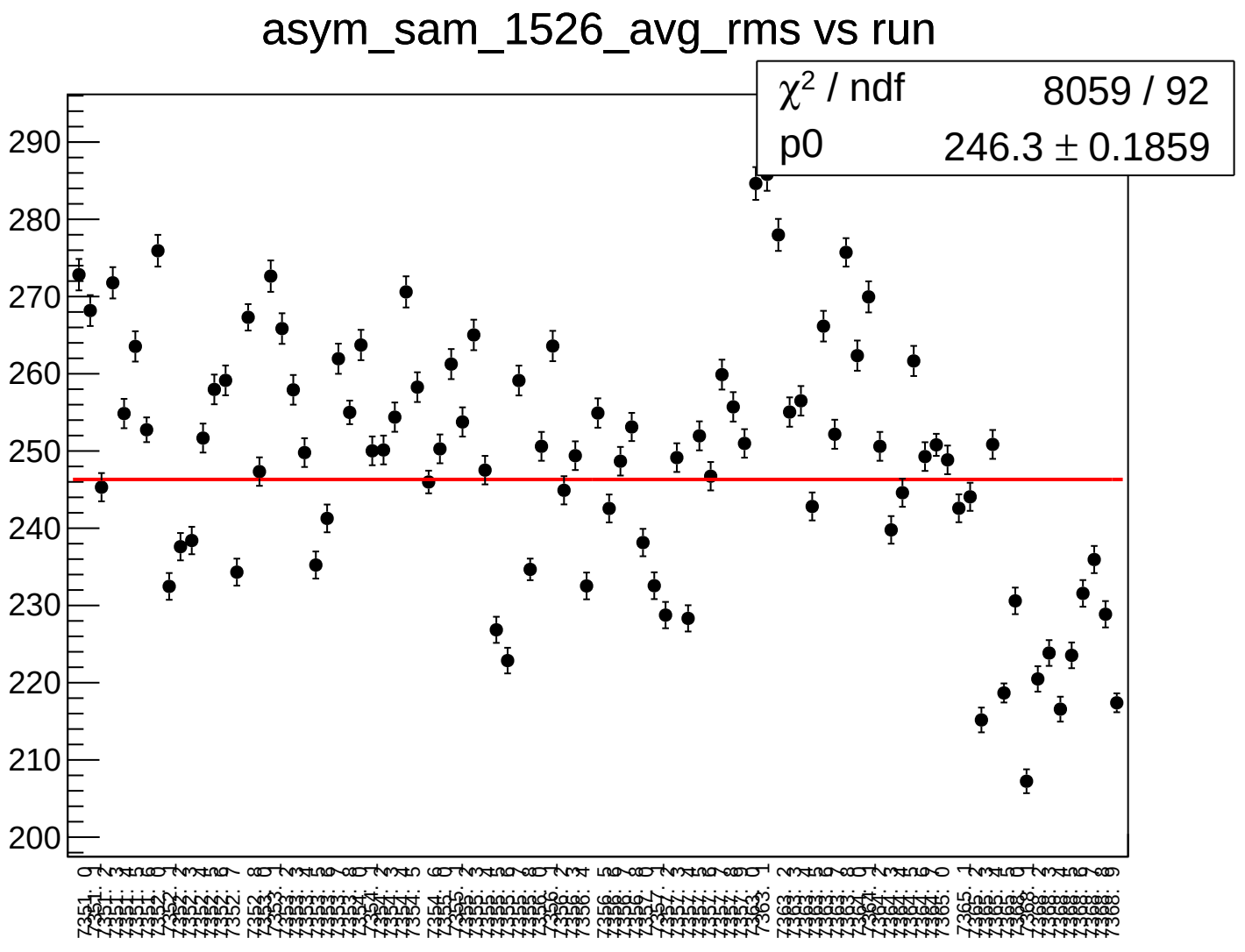

asym_sam_1526_avg_correction_mean vs run
χ² / ndf 280.7 / 92
p0 204.3 ± 257.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −78.25
Std Dev 128.6
4
2
0
−2
−4
−6

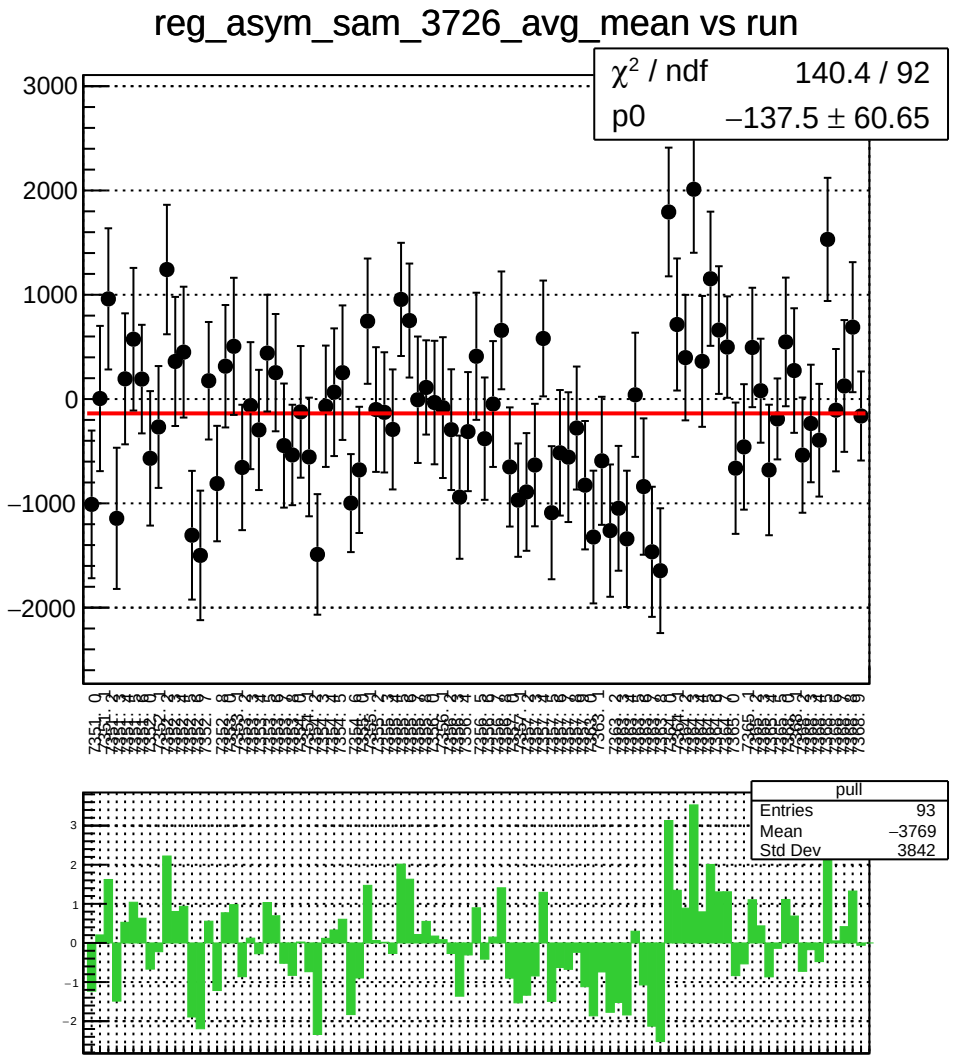

pull1D
Entries 93
Mean 0.0264
Std Dev 1.737
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

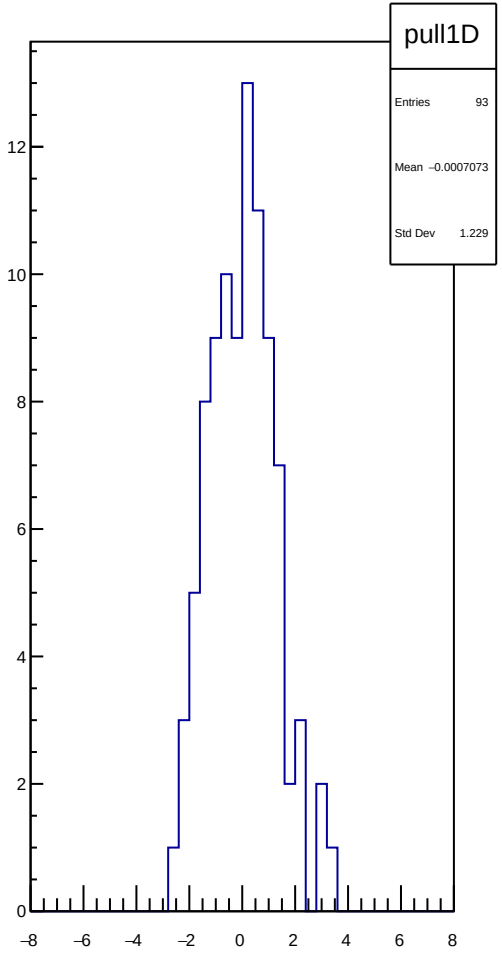

asym_sam_1526_avg_correction_rms vs run
χ² / ndf 8440 / 92
p0 240.9 ± 0.1818
280
260
240
220
200

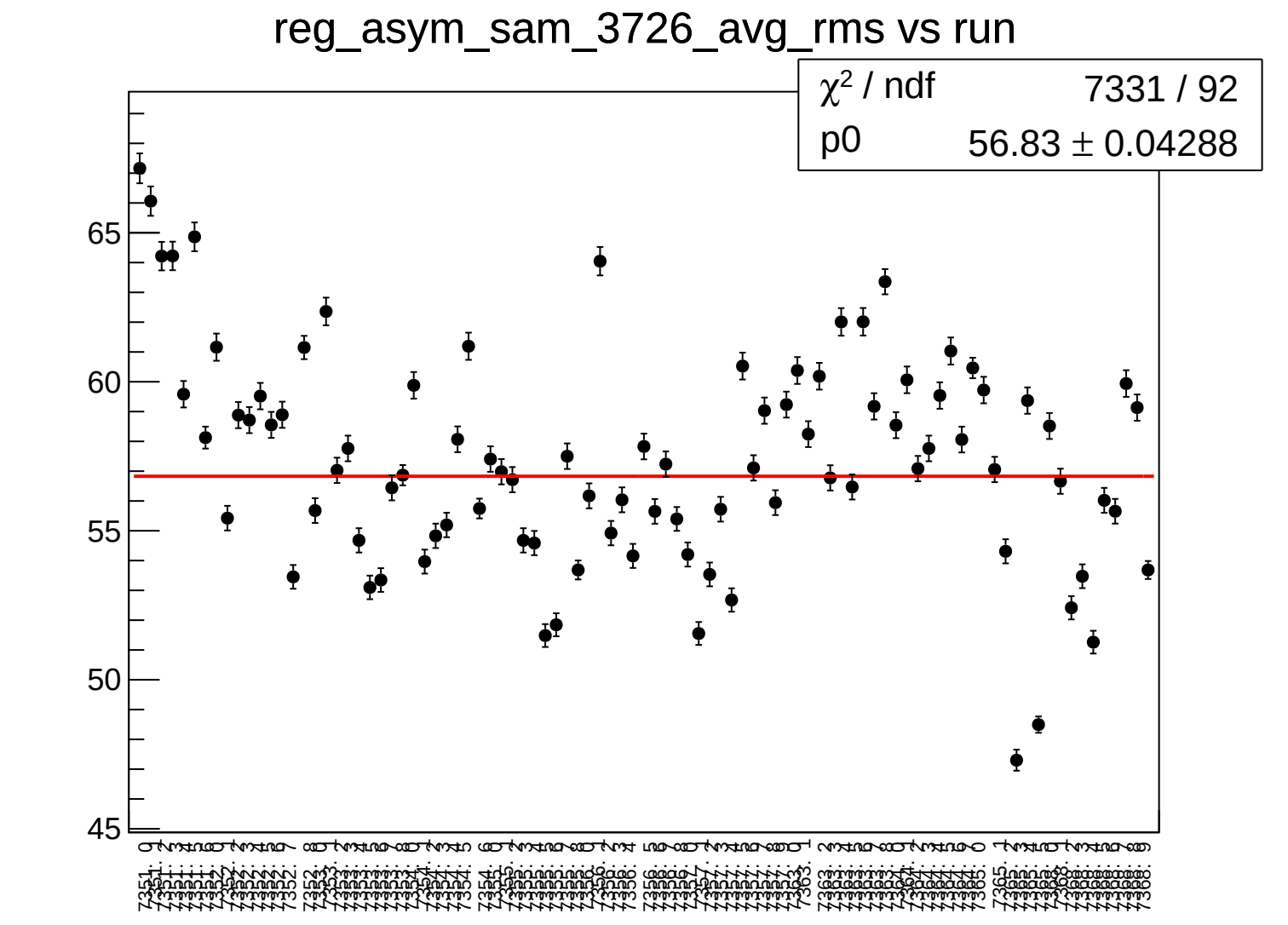

asym_sam_1526_avg_mean vs run
χ² / ndf 299.4 / 92
p0 −306.3 ± 262.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean −96.71
Std Dev 148.3
6
4
2
0
−2
−4

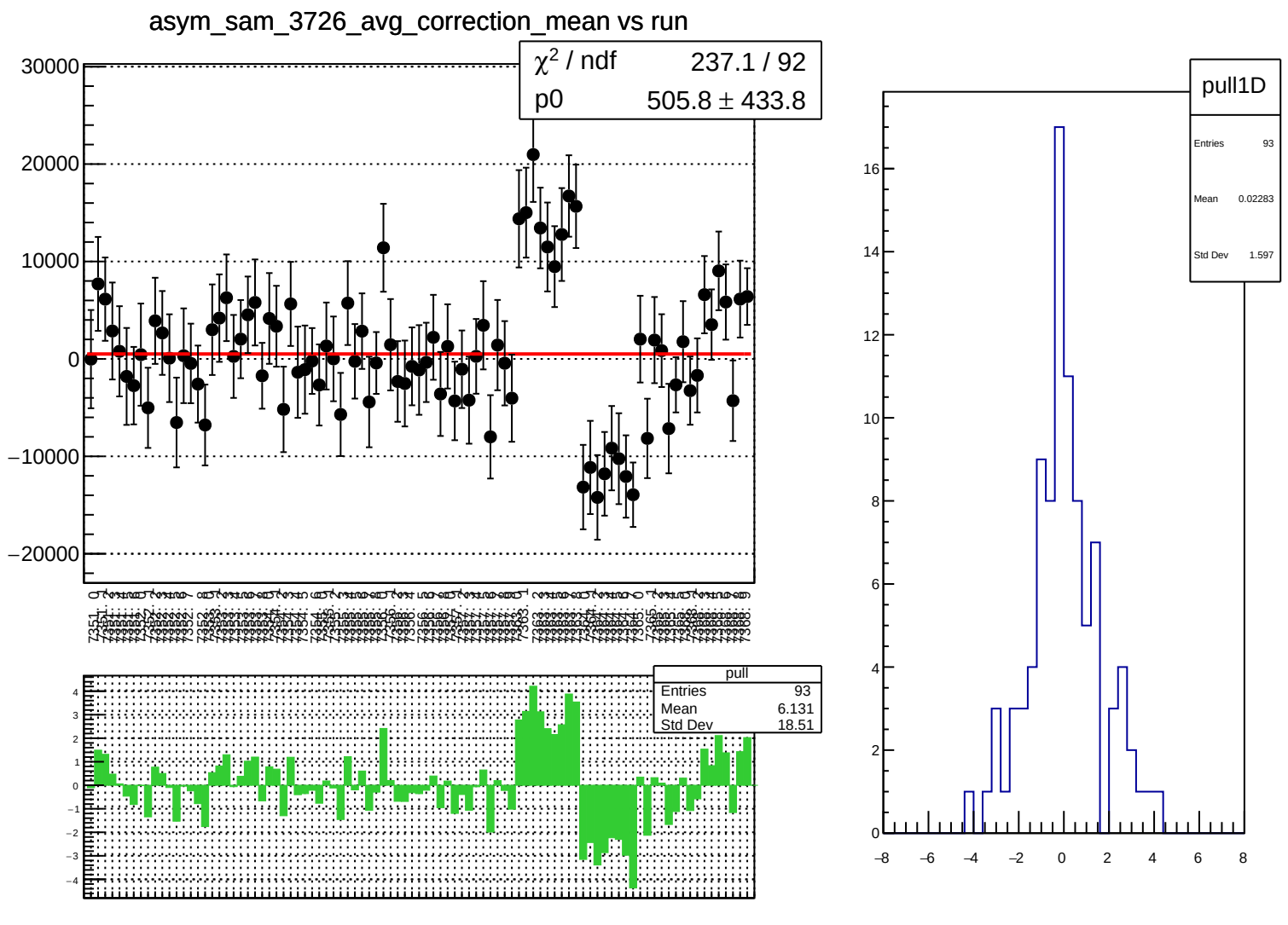

pull1D
Entries 93
Mean −0.02752
Std Dev 1.794
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

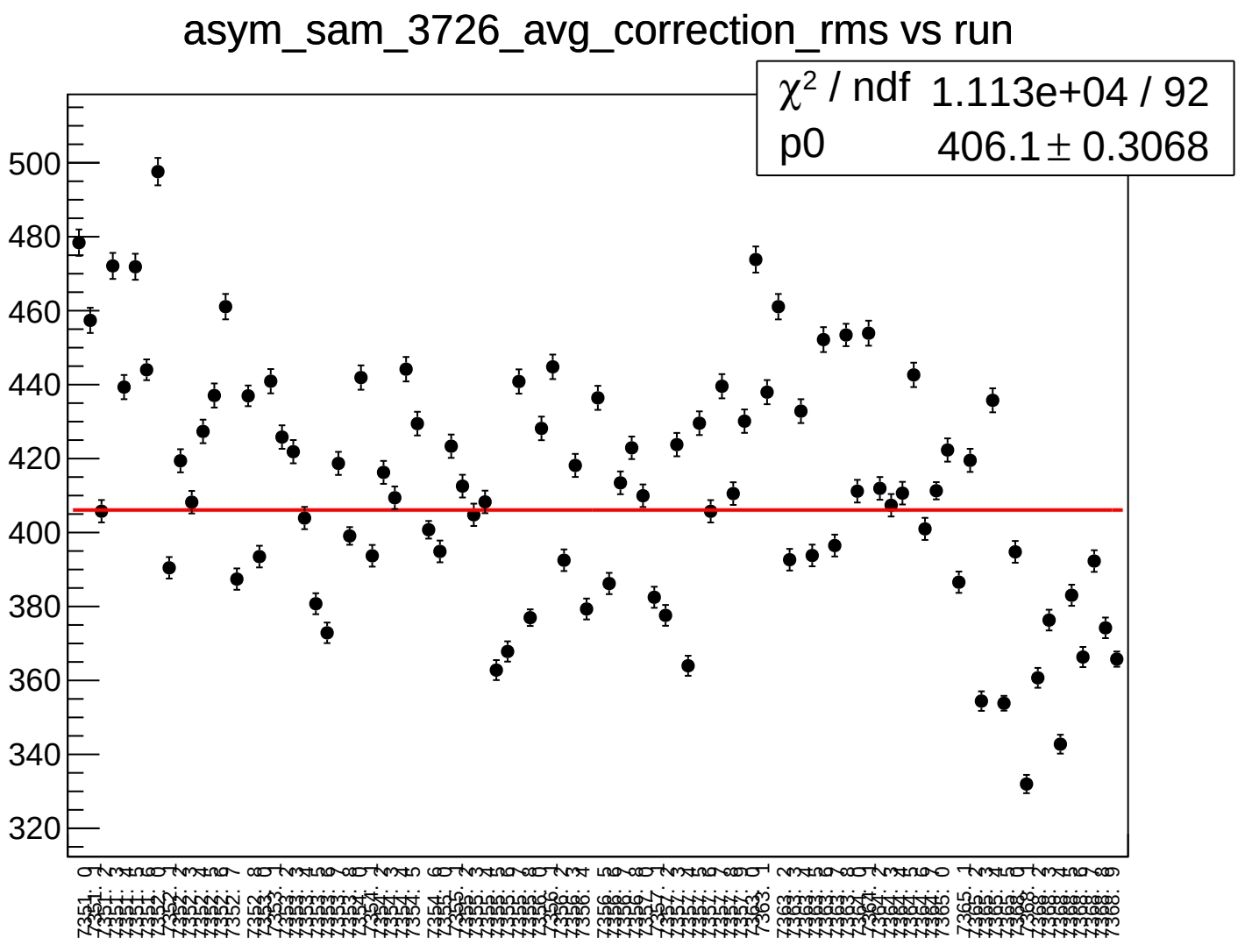

asym_sam_1526_avg_rms vs run
χ^2 / ndf 8059 / 92
p0 246.3 ± 0.1859
290
280
270
260
250
240
230
220
210
200

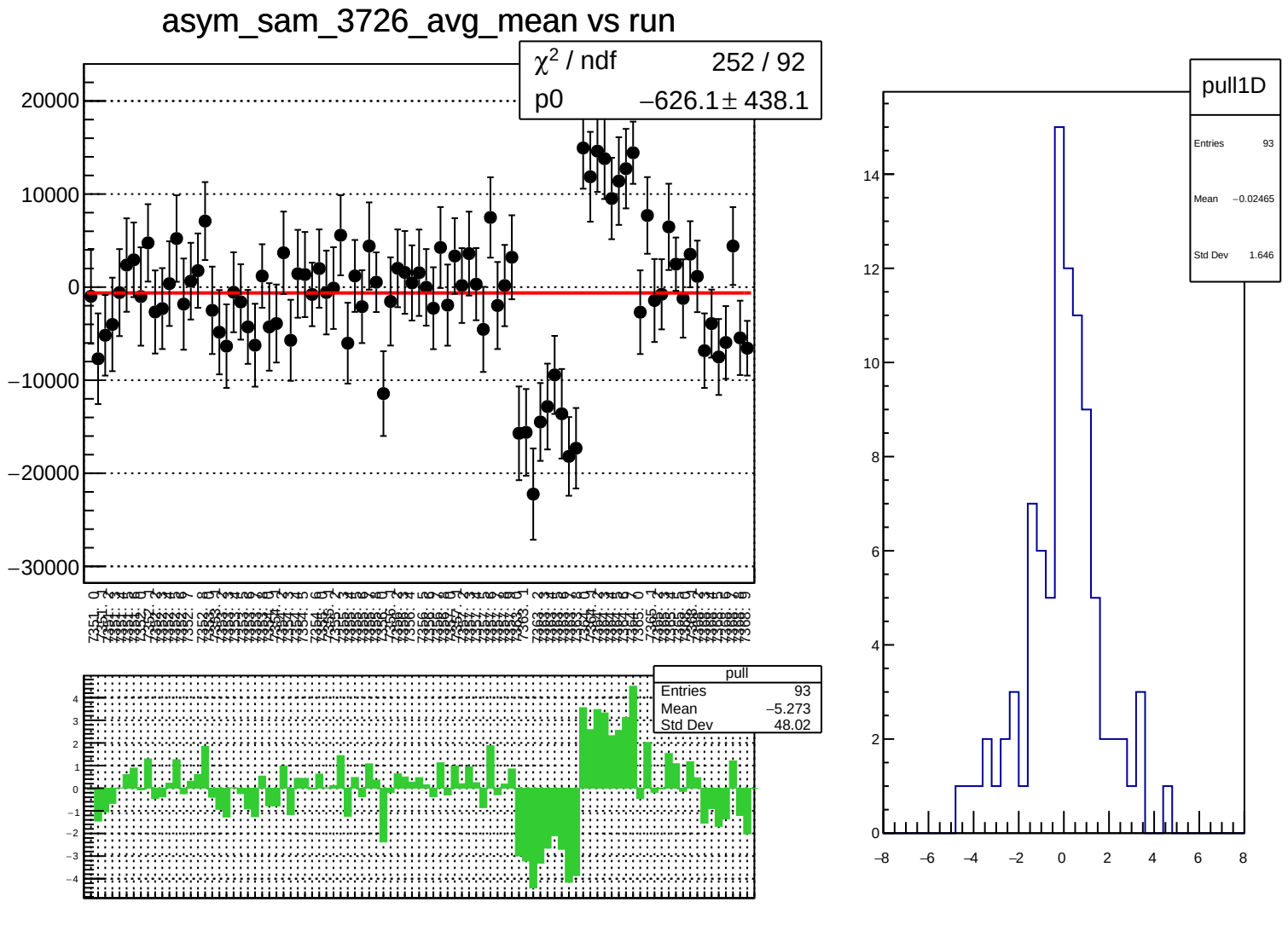

reg_asym_sam_3726_avg_mean vs run
χ² / ndf 140.4 / 92
p0 −137.5 ± 60.65
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean −3769
Std Dev 3842
3
2
1
0
−1
−2

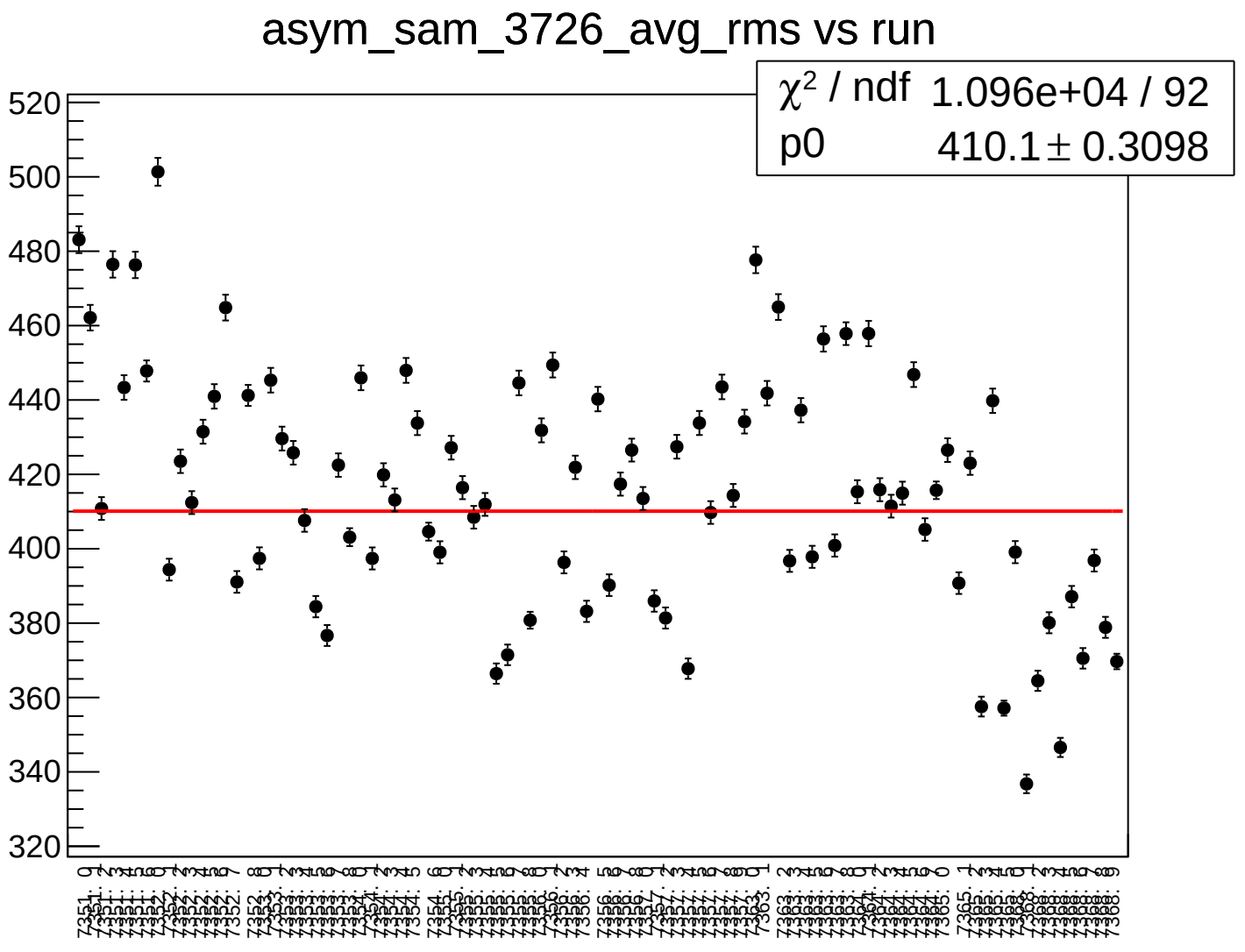

pull1D
Entries 93
Mean −0.0007073
Std Dev 1.229
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

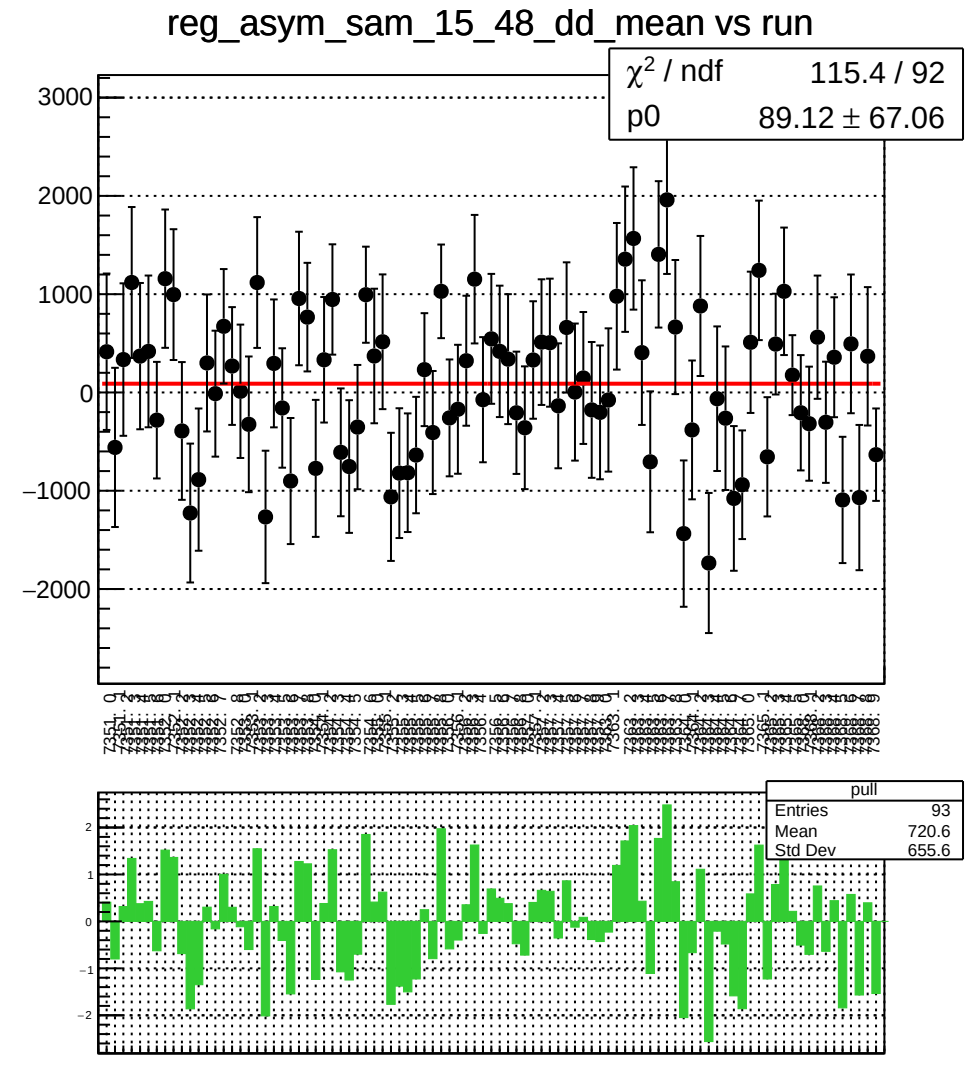

reg_asym_sam_3726_avg_rms vs run
χ² / ndf 7331 / 92
p0 56.83 ± 0.04288
65
60
55
50
45

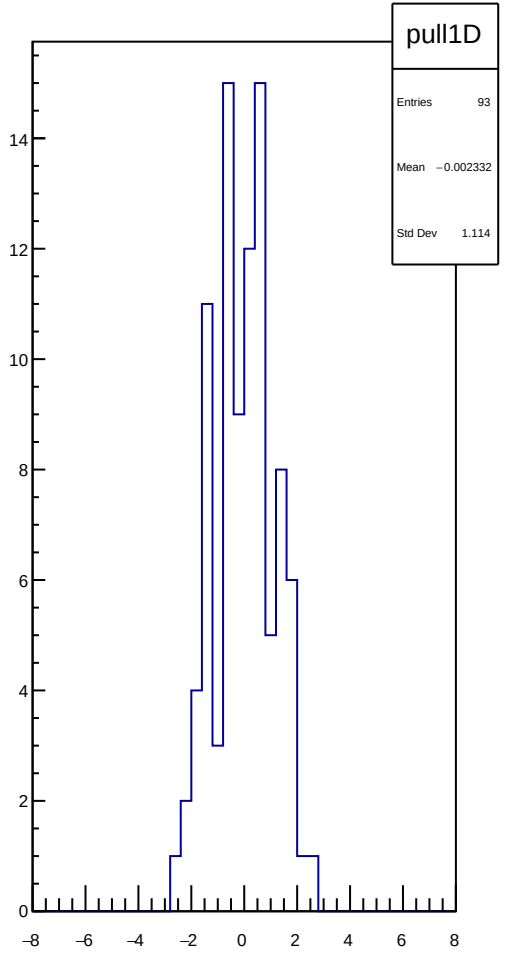

asym_sam_3726_avg_correction_mean vs run
χ² / ndf 237.1 / 92
p0 505.8 ± 433.8
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean 6.131
Std Dev 18.51
pull1D
Entries 93
Mean 0.02283
Std Dev 1.597

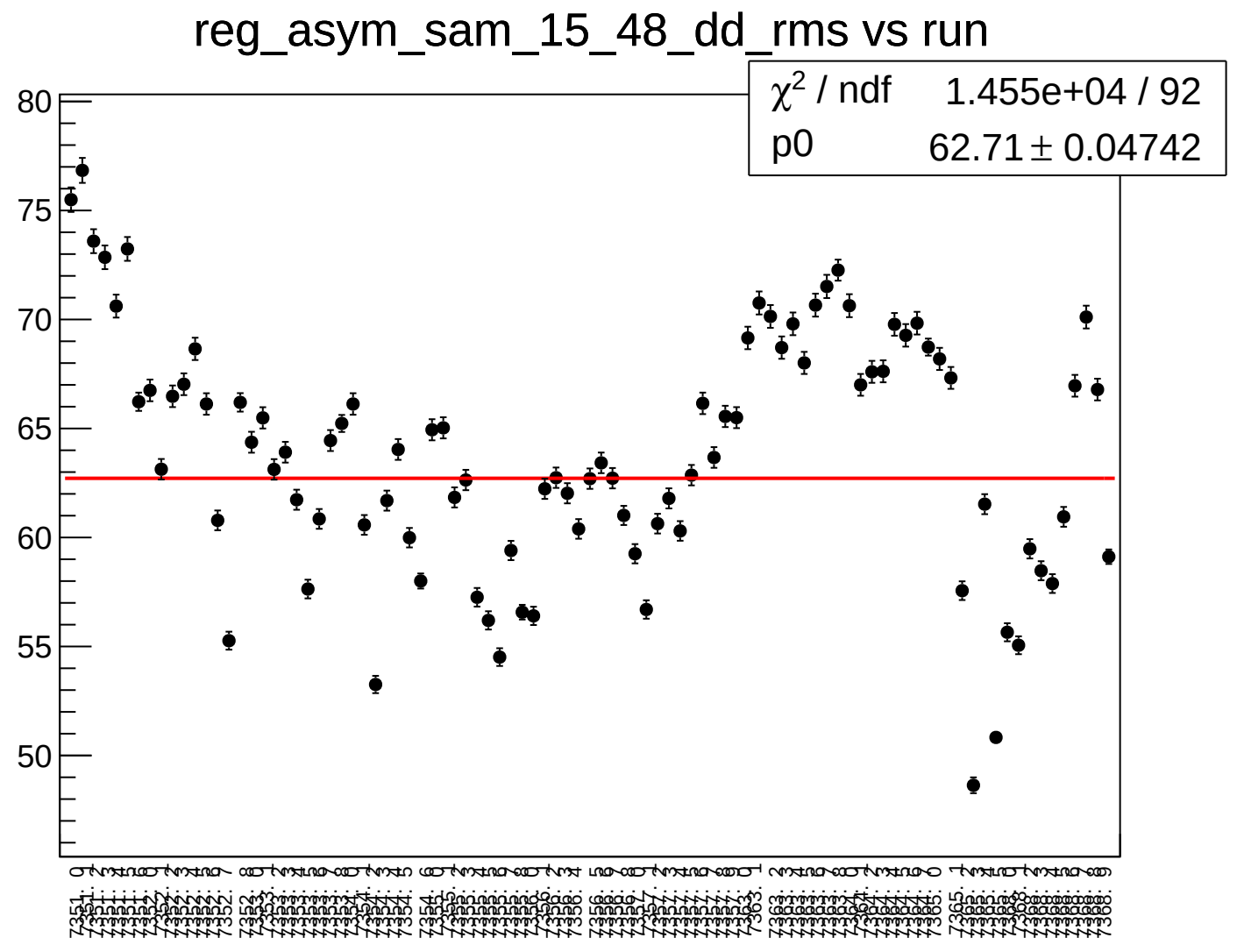

asym_sam_3726_avg_correction_rms vs run
χ² / ndf 1.113e+04 / 92
p0 406.1 ± 0.3068
500
480
460
440
420
400
380
360
340
320

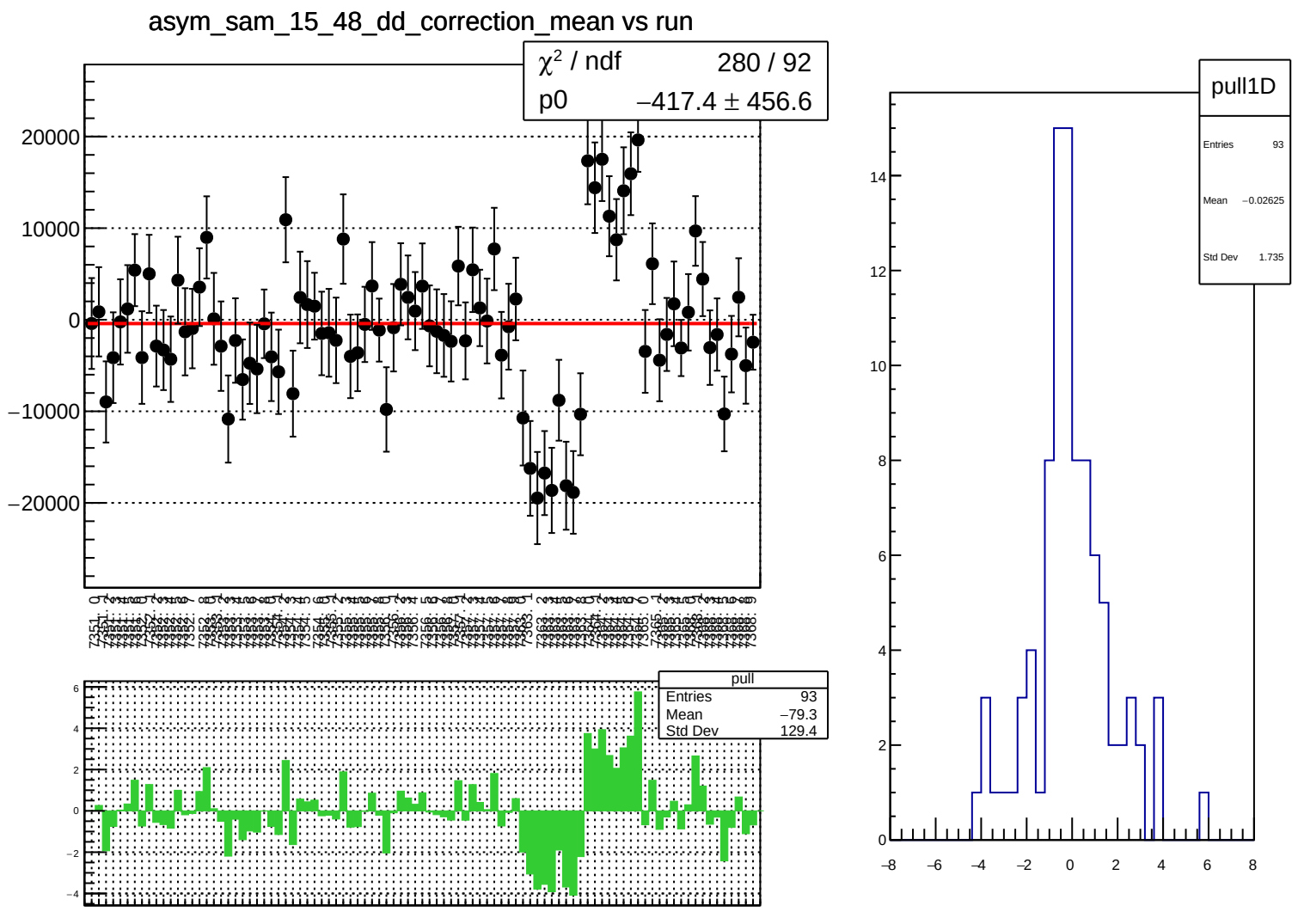

asym_sam_3726_avg_mean vs run
χ² / ndf 252 / 92
p0 −626.1 ± 438.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −5.273
Std Dev 48.02
4
3
2
1
0
−1
−2
−3
−4
pull1D
Entries 93
Mean −0.02465
Std Dev 1.646
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

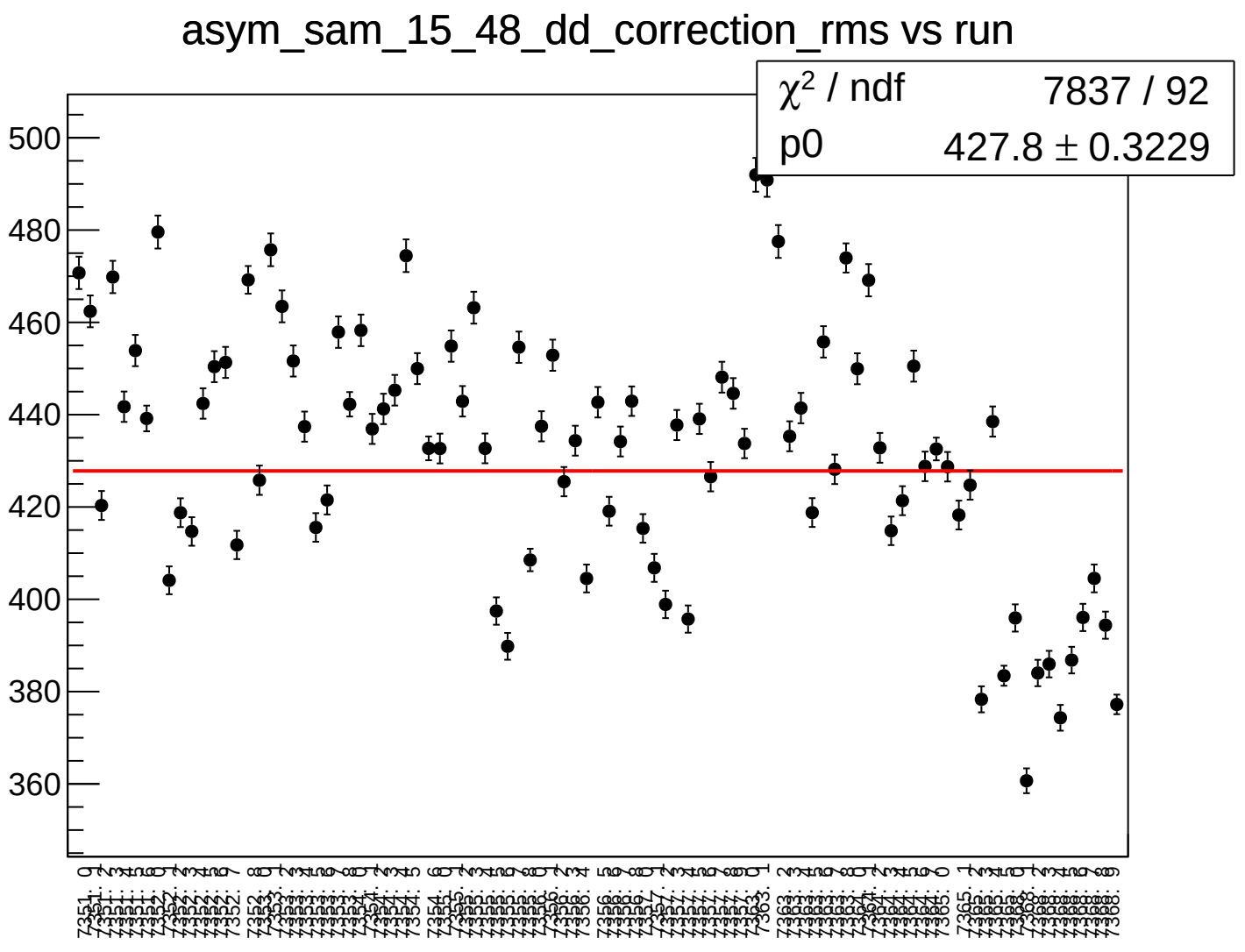

asym_sam_3726_avg_rms vs run
χ² / ndf 1.096e+04 / 92
p0 410.1 ± 0.3098
520
500
480
460
440
420
400
380
360
340
320

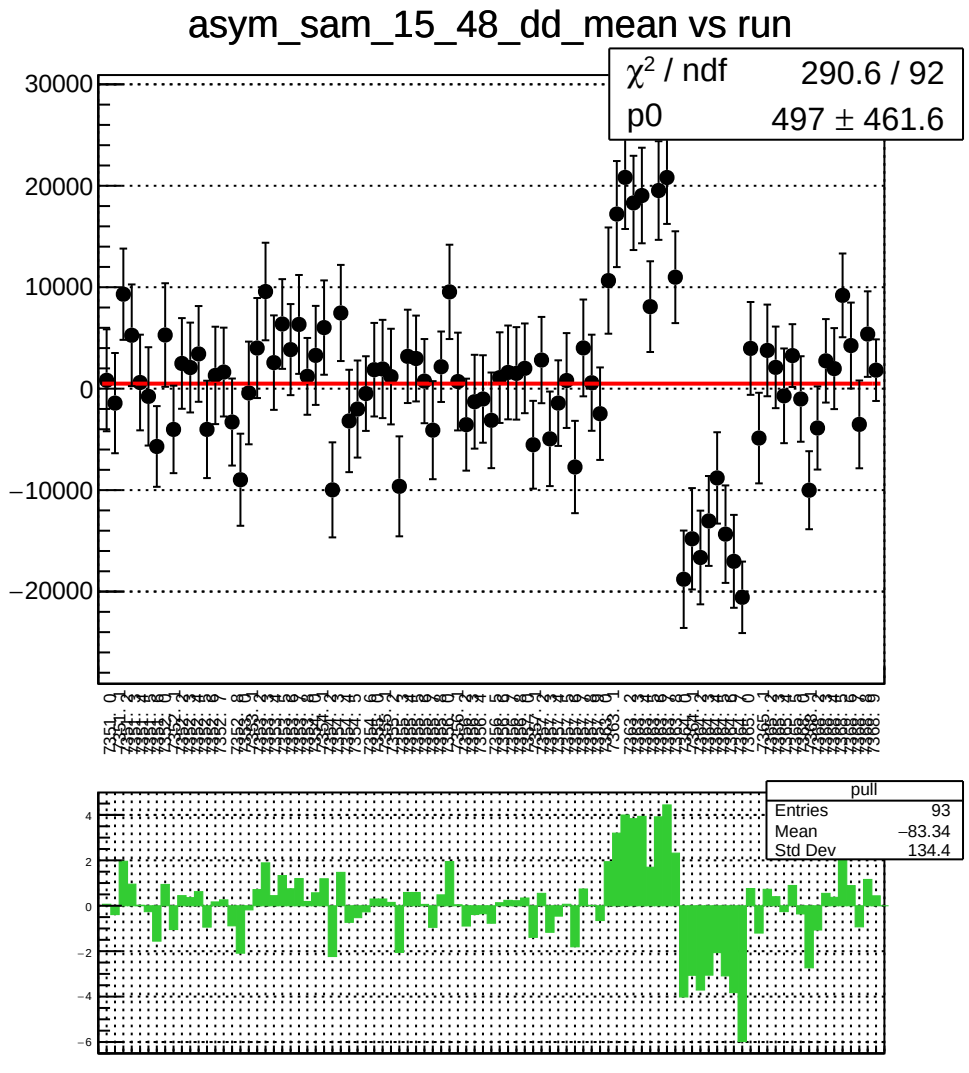

reg_asym_sam_15_48_dd_mean vs run
χ² / ndf 115.4 / 92
p0 89.12 ± 67.06
3000
2000
1000
0
−1000
−2000
pull
Entries 93
Mean 720.6
Std Dev 655.6
2
1
0
−1
−2

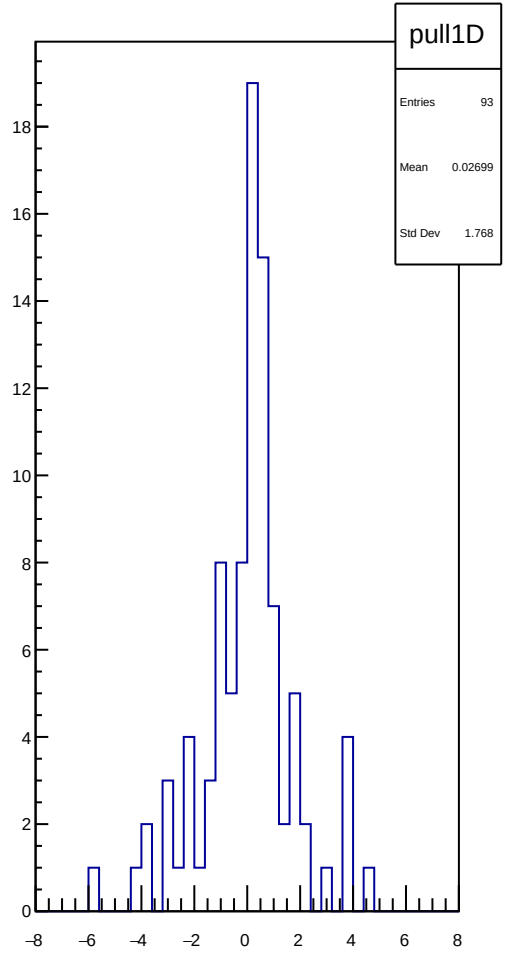

pull1D
Entries 93
Mean −0.002332
Std Dev 1.114
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

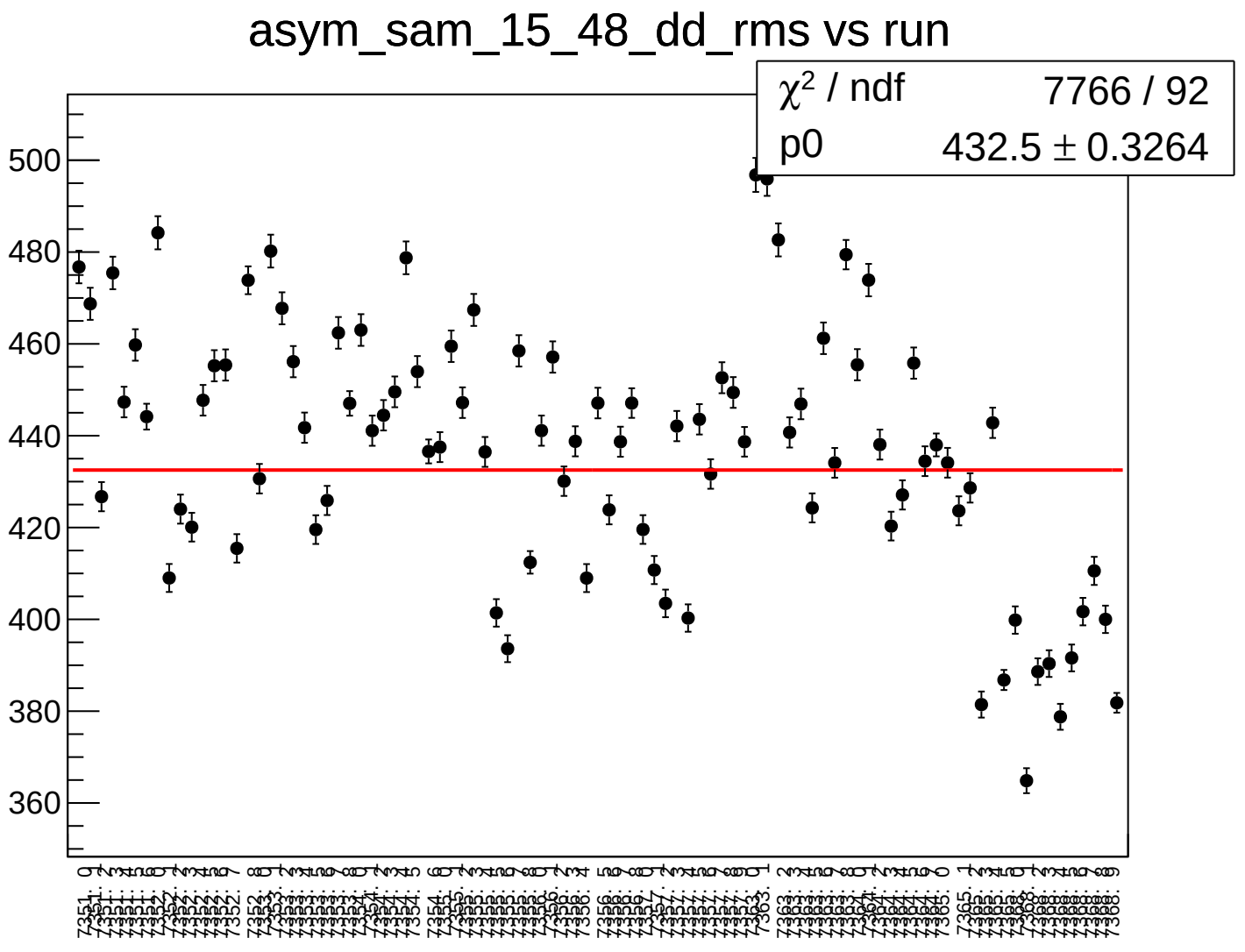

reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.455e+04 / 92
p0 62.71 ± 0.04742
80
75
70
65
60
55
50

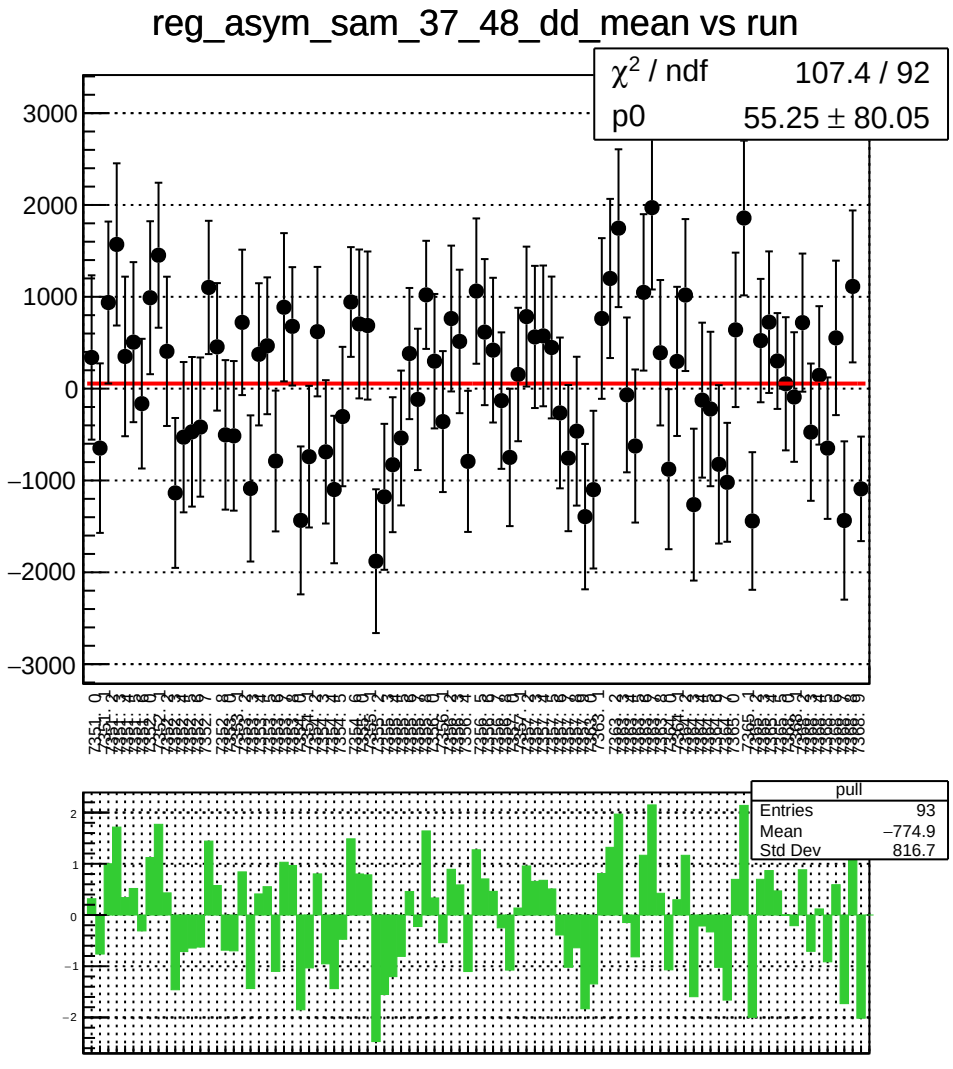

asym_sam_15_48_dd_correction_mean vs run
χ² / ndf 280 / 92
p0 −417.4 ± 456.6
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −79.3
Std Dev 129.4
6
4
2
0
−2
−4
pull1D
Entries 93
Mean −0.02625
Std Dev 1.735
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

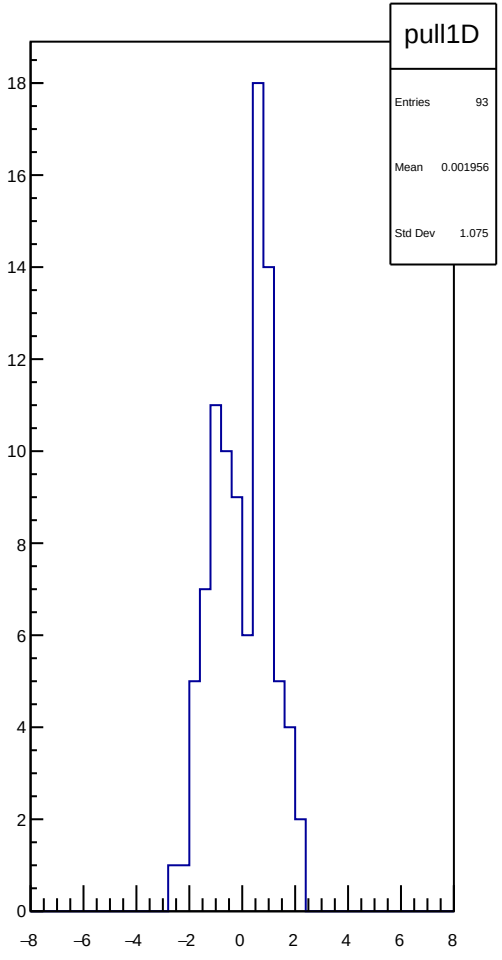

asym_sam_15_48_dd_correction_rms vs run
χ² / ndf 7837 / 92
p0 427.8 ± 0.3229
500
480
460
440
420
400
380
360

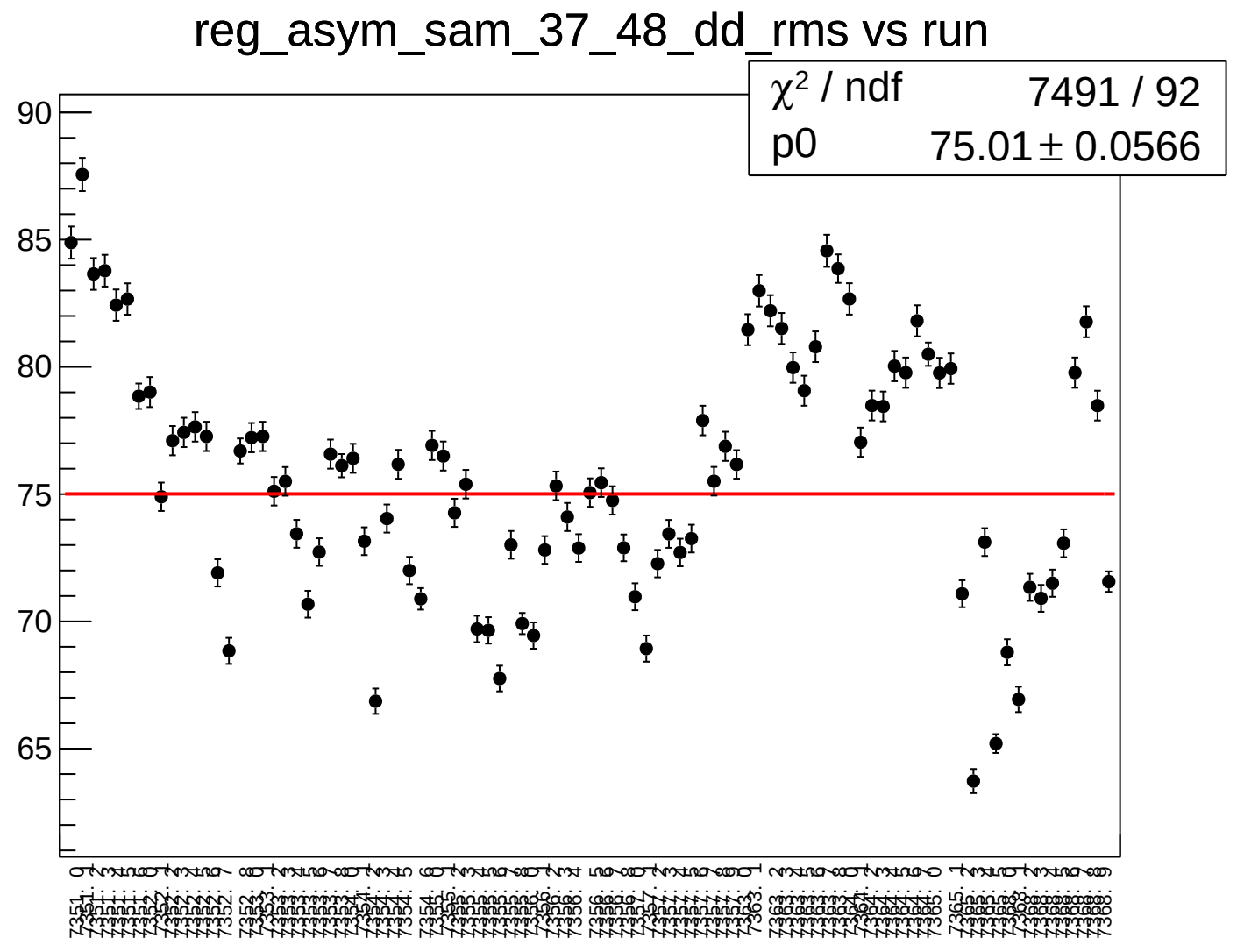

asym_sam_15_48_dd_mean vs run
χ² / ndf 290.6 / 92
p0 497 ± 461.6
30000
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −83.34
Std Dev 134.4
4
2
0
−2
−4
−6

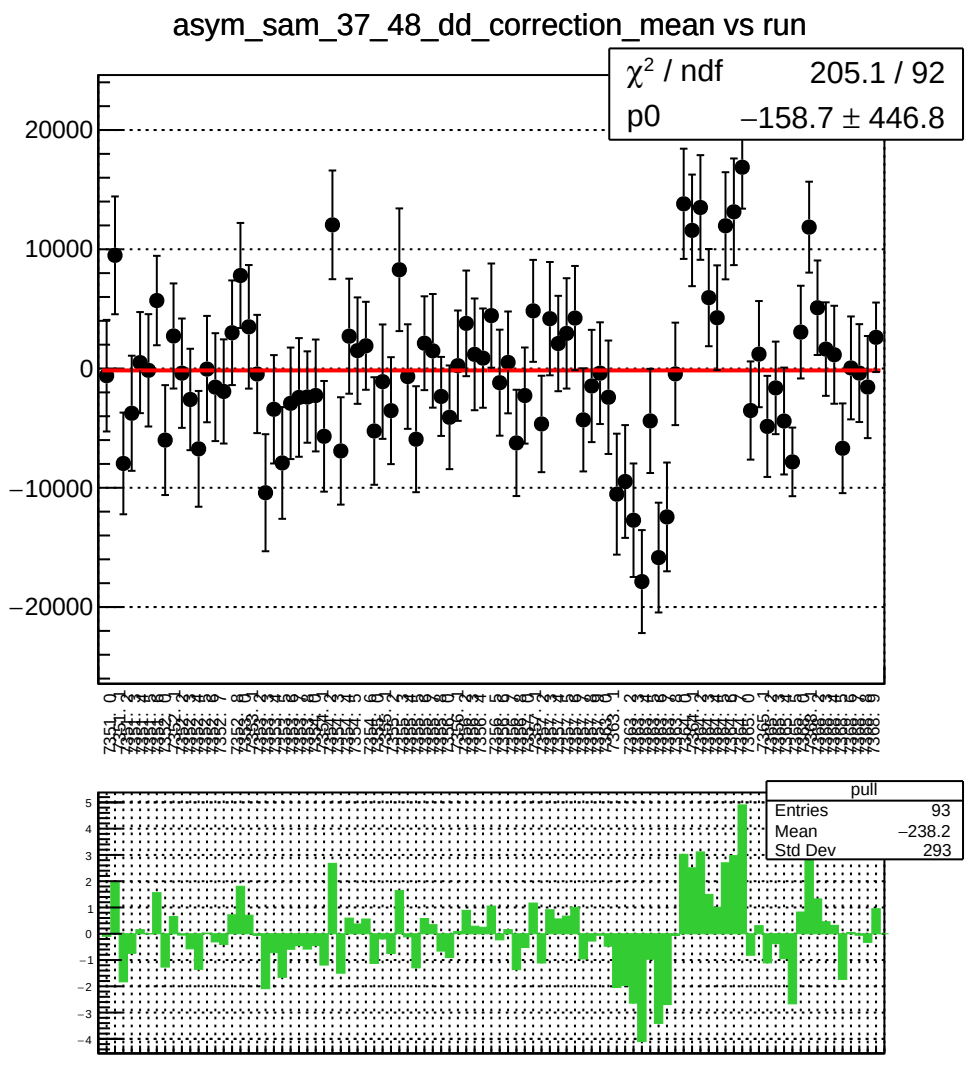

pull1D
Entries 93
Mean 0.02699
Std Dev 1.768
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

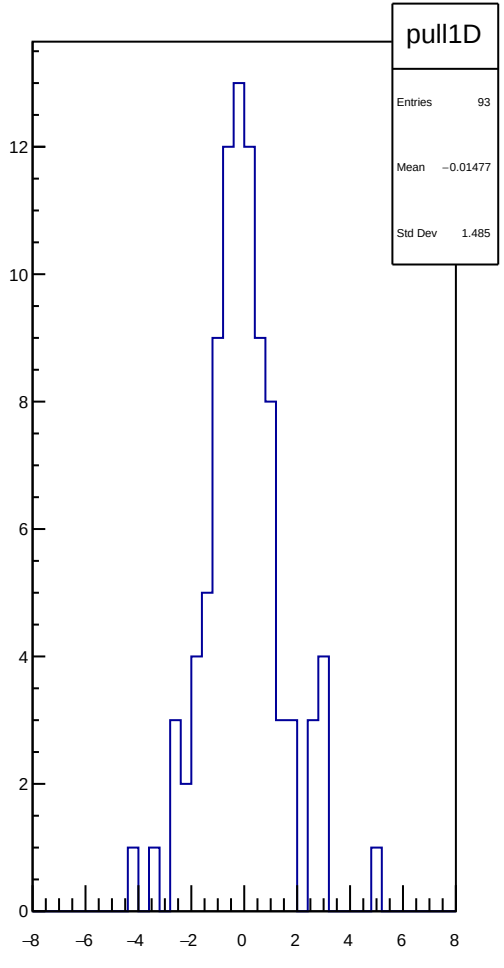

asym_sam_15_48_dd_rms vs run
χ² / ndf 7766 / 92
p0 432.5 ± 0.3264
500
480
460
440
420
400
380
360

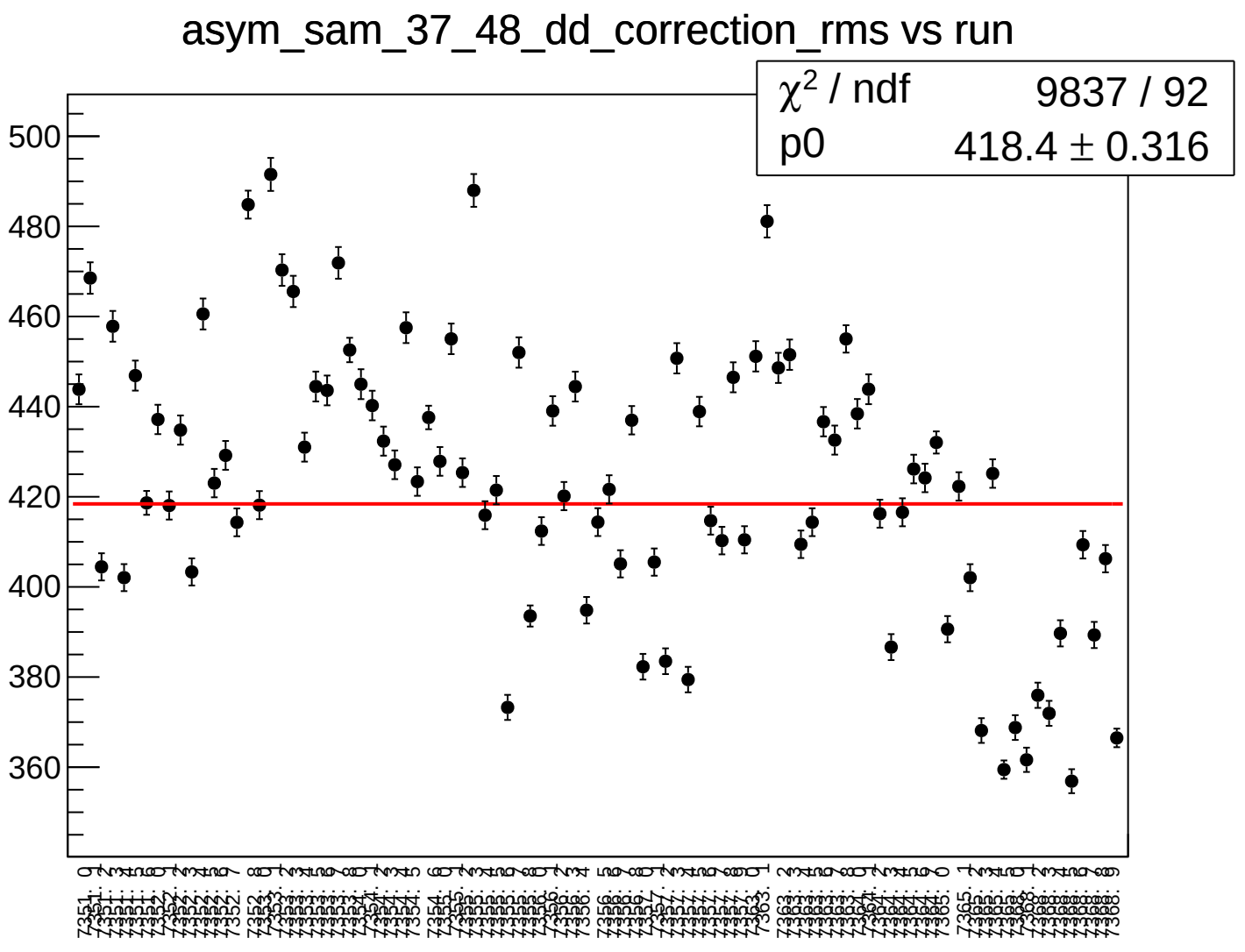

reg_asym_sam_37_48_dd_mean vs run
χ² / ndf 107.4 / 92
p0 55.25 ± 80.05
pull
Entries 93
Mean −774.9
Std Dev 816.7

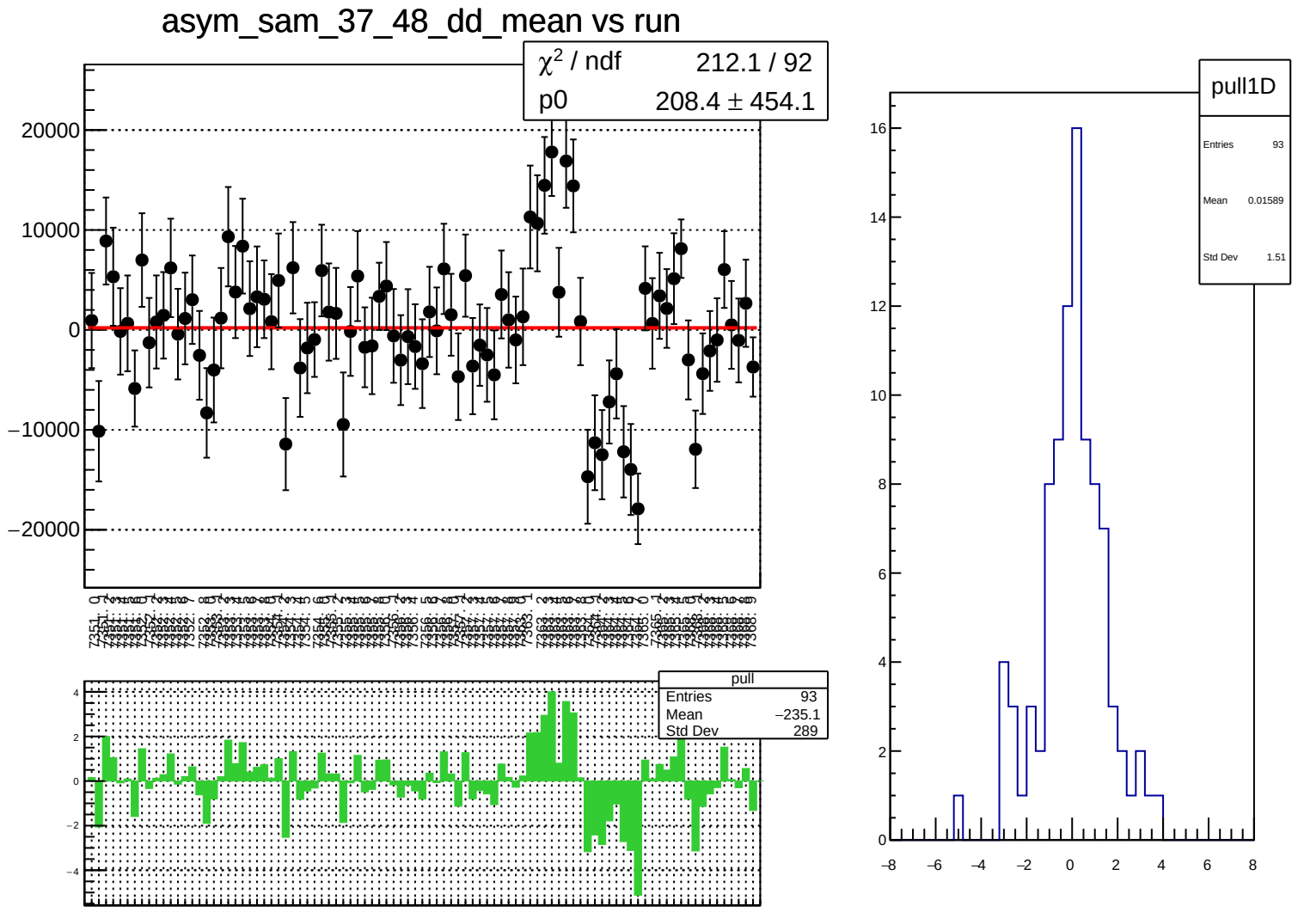

pull1D
Entries 93
Mean 0.001956
Std Dev 1.075

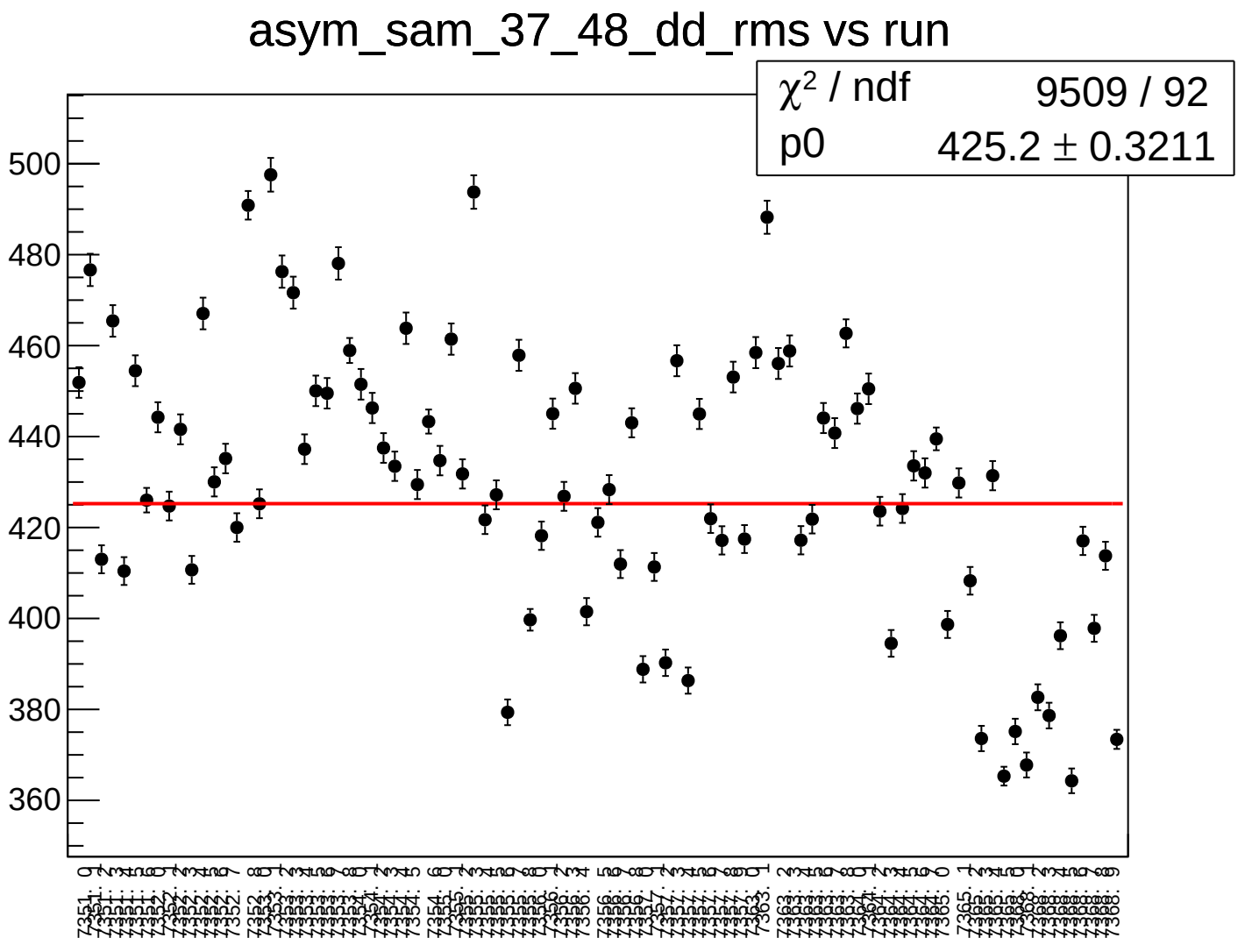

reg_asym_sam_37_48_dd_rms vs run
χ² / ndf 7491 / 92
p0 75.01 ± 0.0566
90
85
80
75
70
65

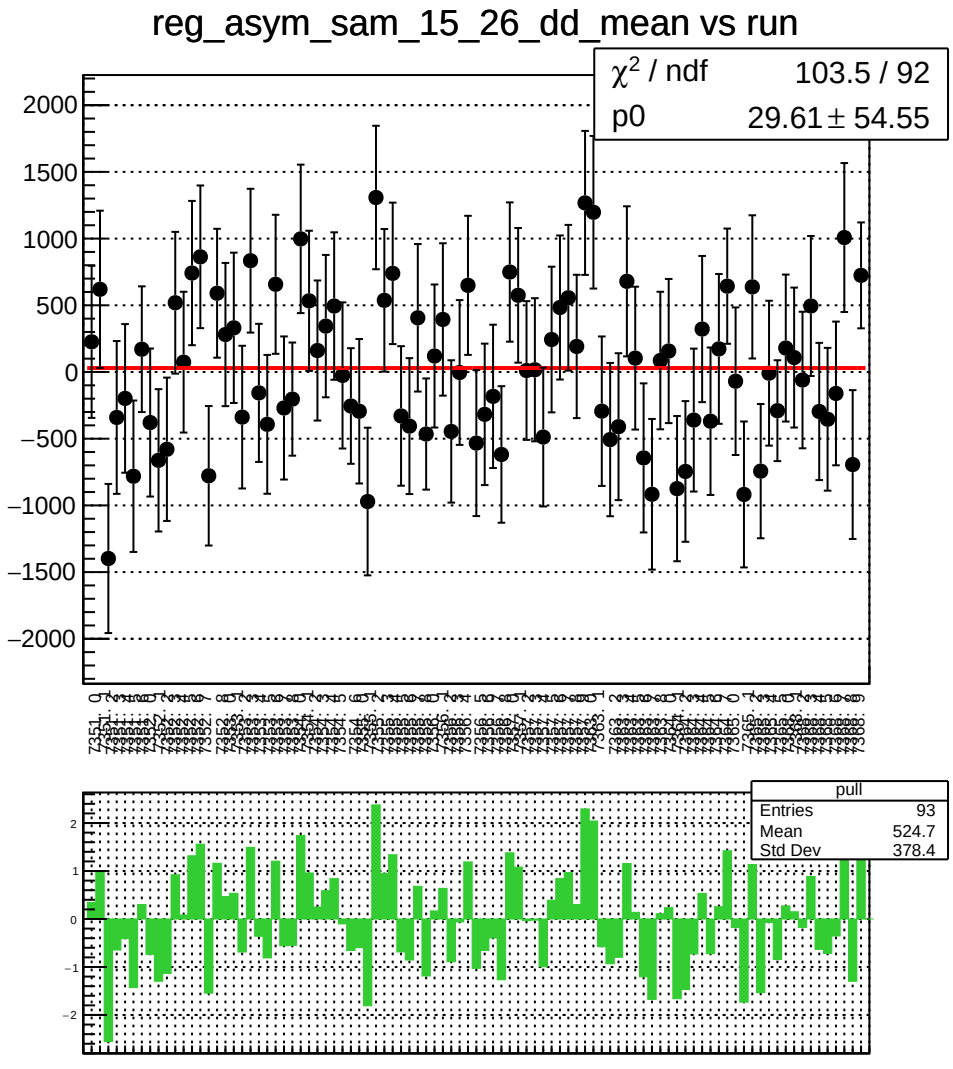

asym_sam_37_48_dd_correction_mean vs run
χ² / ndf 205.1 / 92
p0 −158.7 ± 446.8
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −238.2
Std Dev 293
5
4
3
2
1
0
−1
−2
−3
−4

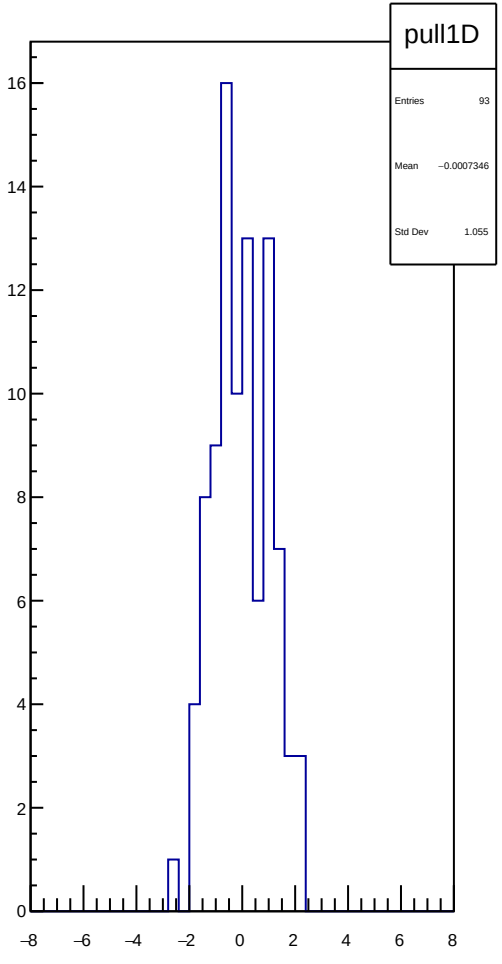

pull1D
Entries 93
Mean −0.01477
Std Dev 1.485
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

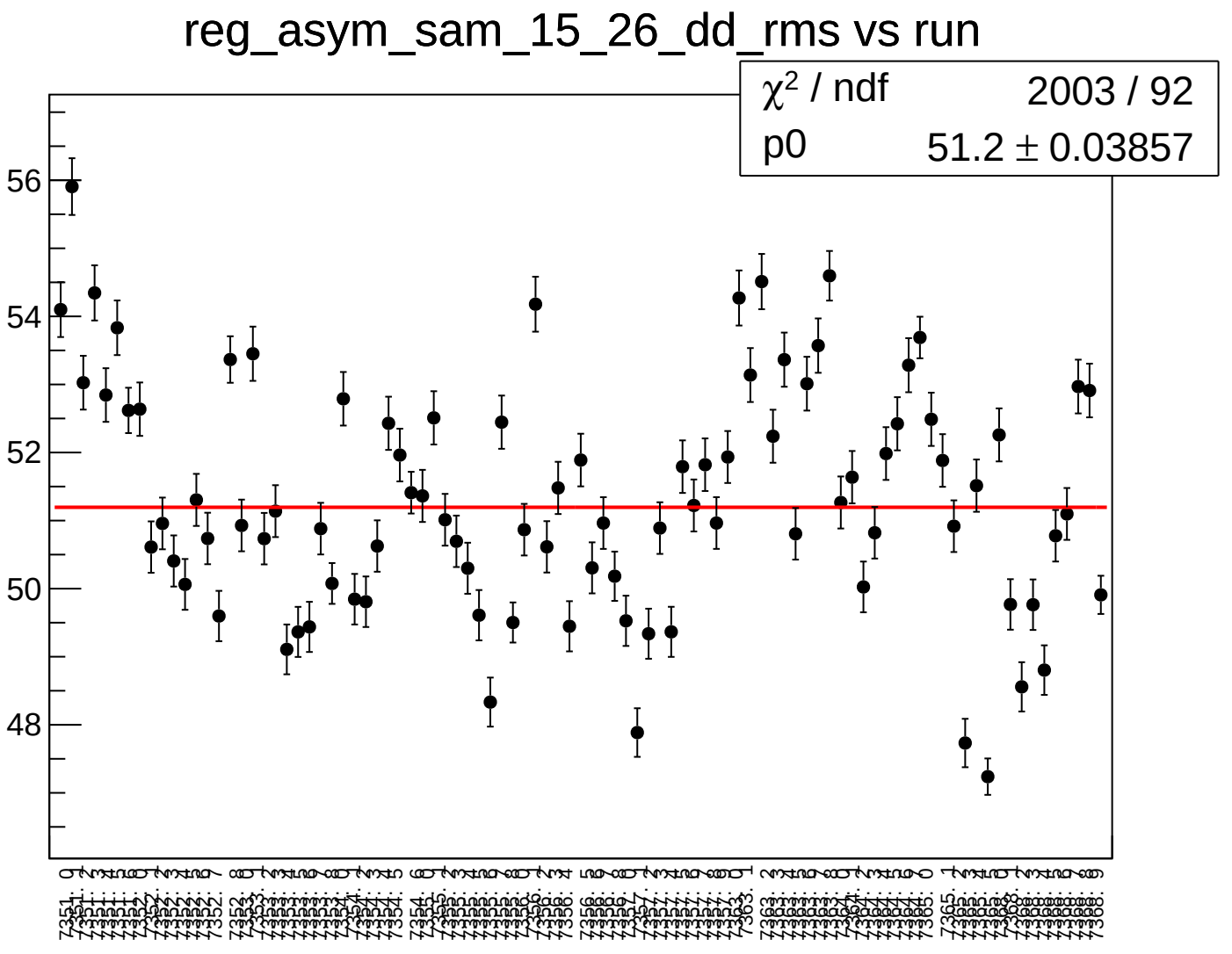

asym_sam_37_48_dd_correction_rms vs run
χ² / ndf 9837 / 92
p0 418.4 ± 0.316
500
480
460
440
420
400
380
360

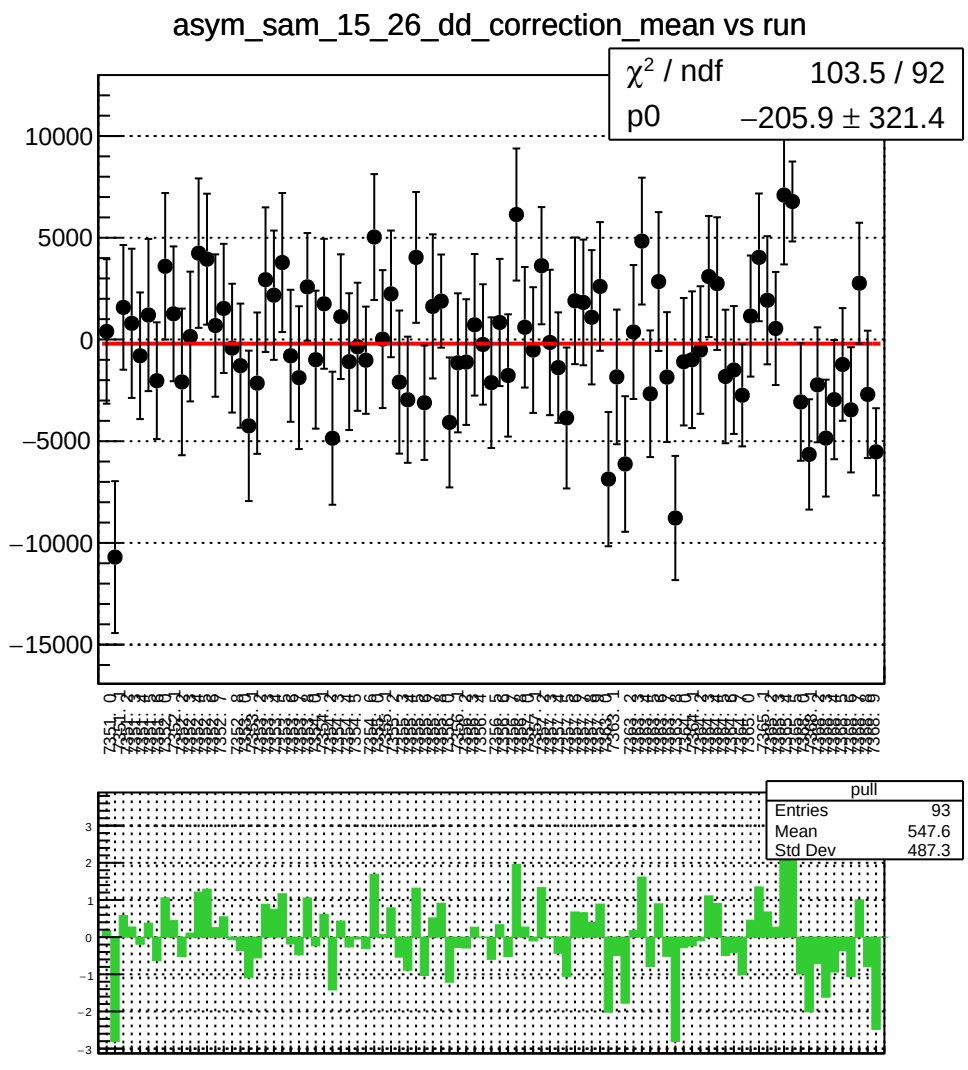

asym_sam_37_48_dd_mean vs run
χ² / ndf 212.1 / 92
p0 208.4 ± 454.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −235.1
Std Dev 289
pull1D
Entries 93
Mean 0.01589
Std Dev 1.51

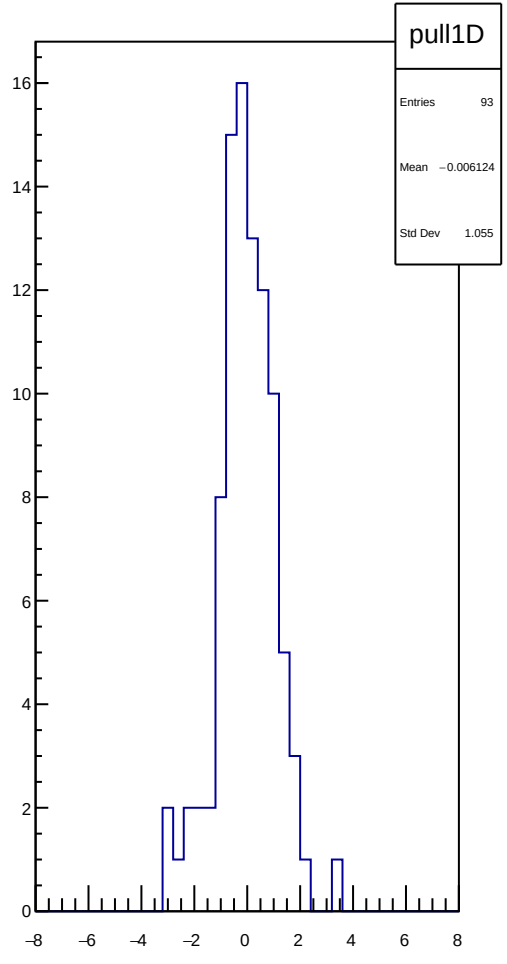

asym_sam_37_48_dd_rms vs run
χ² / ndf 9509 / 92
p0 425.2 ± 0.3211
500
480
460
440
420
400
380
360

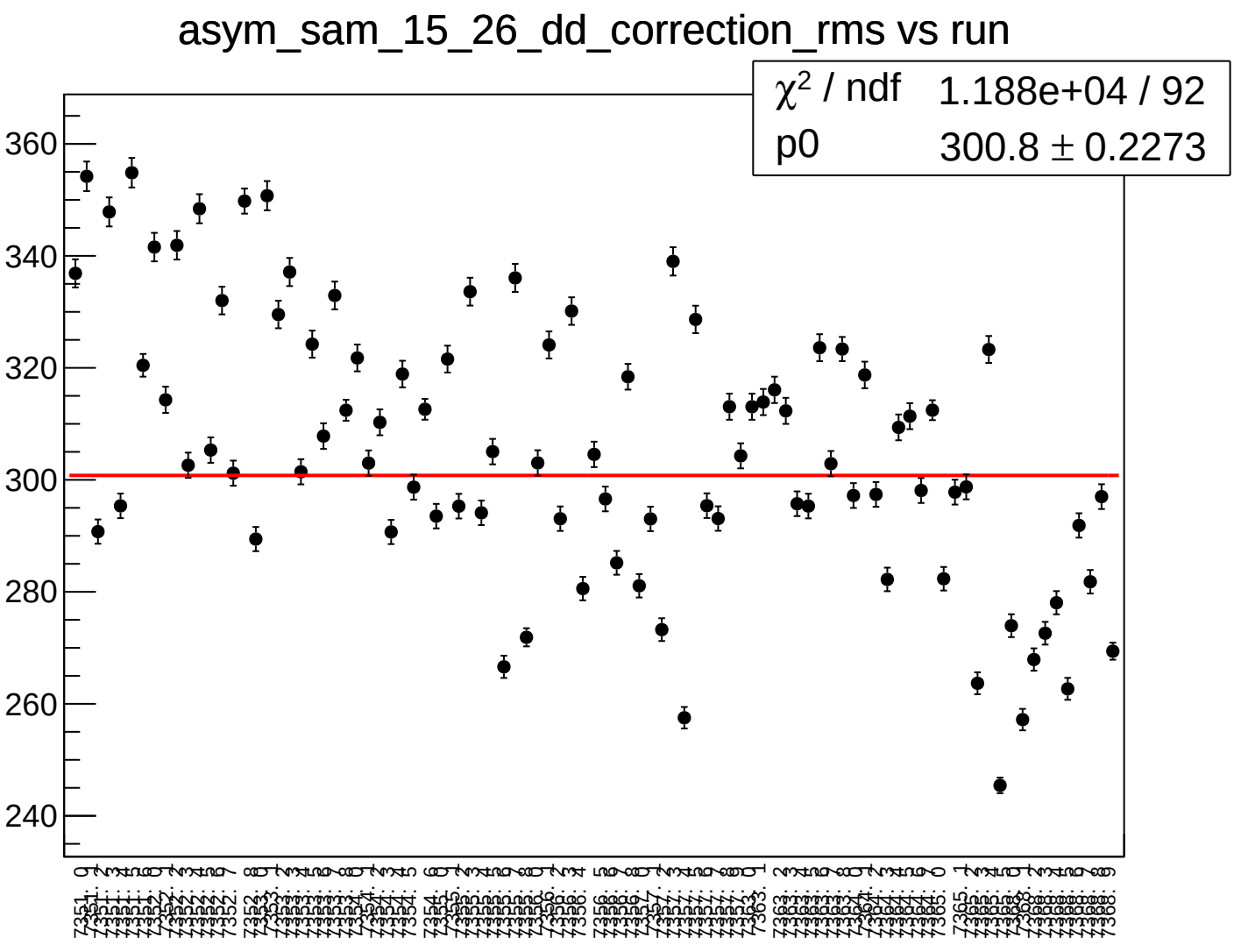

reg_asym_sam_15_26_dd_mean vs run
χ² / ndf 103.5 / 92
p0 29.61 ± 54.55
pull
Entries 93
Mean 524.7
Std Dev 378.4

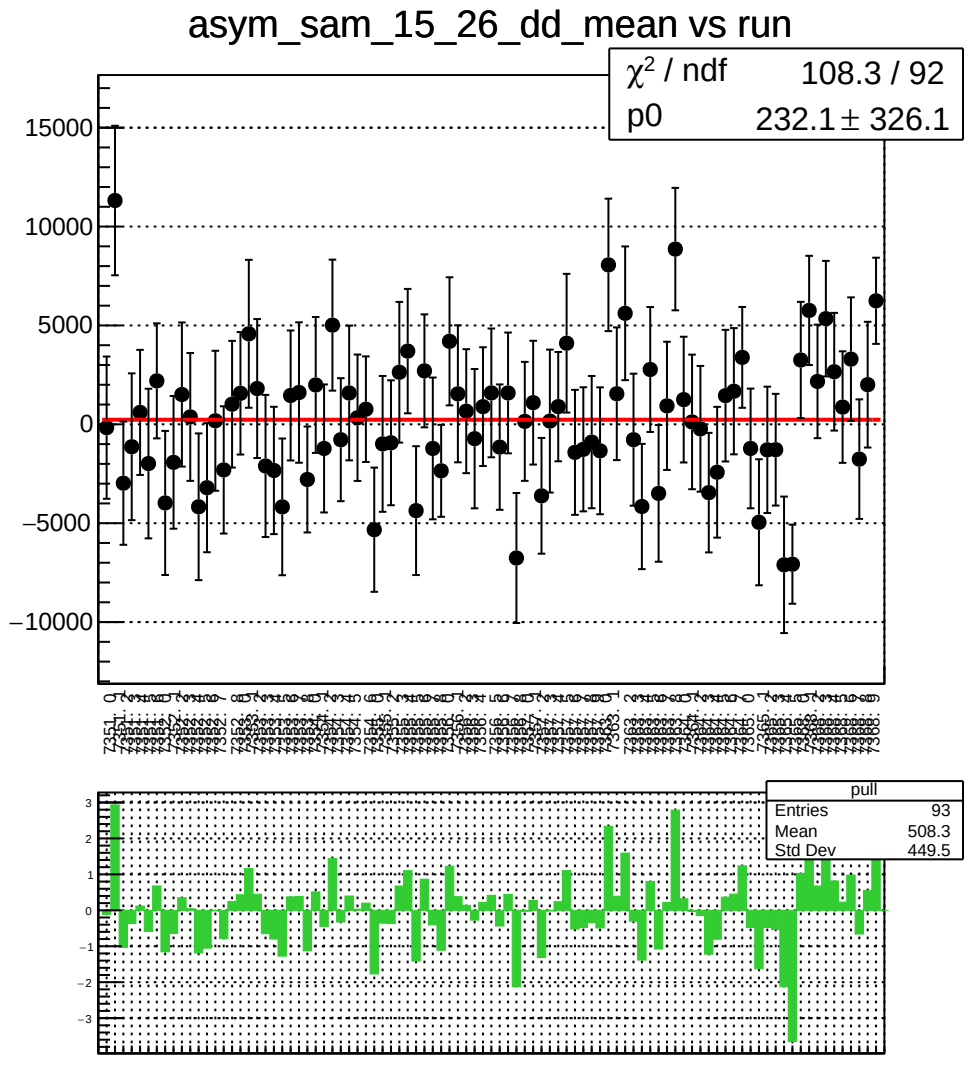

pull1D
Entries 93
Mean −0.0007346
Std Dev 1.055

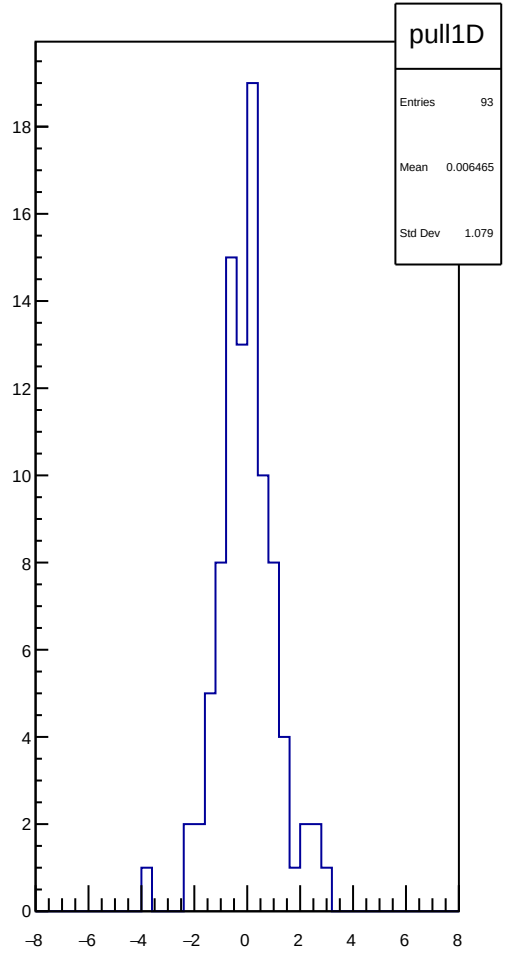

reg_asym_sam_15_26_dd_rms vs run
χ² / ndf 2003 / 92
p0 51.2 ± 0.03857
56
54
52
50
48

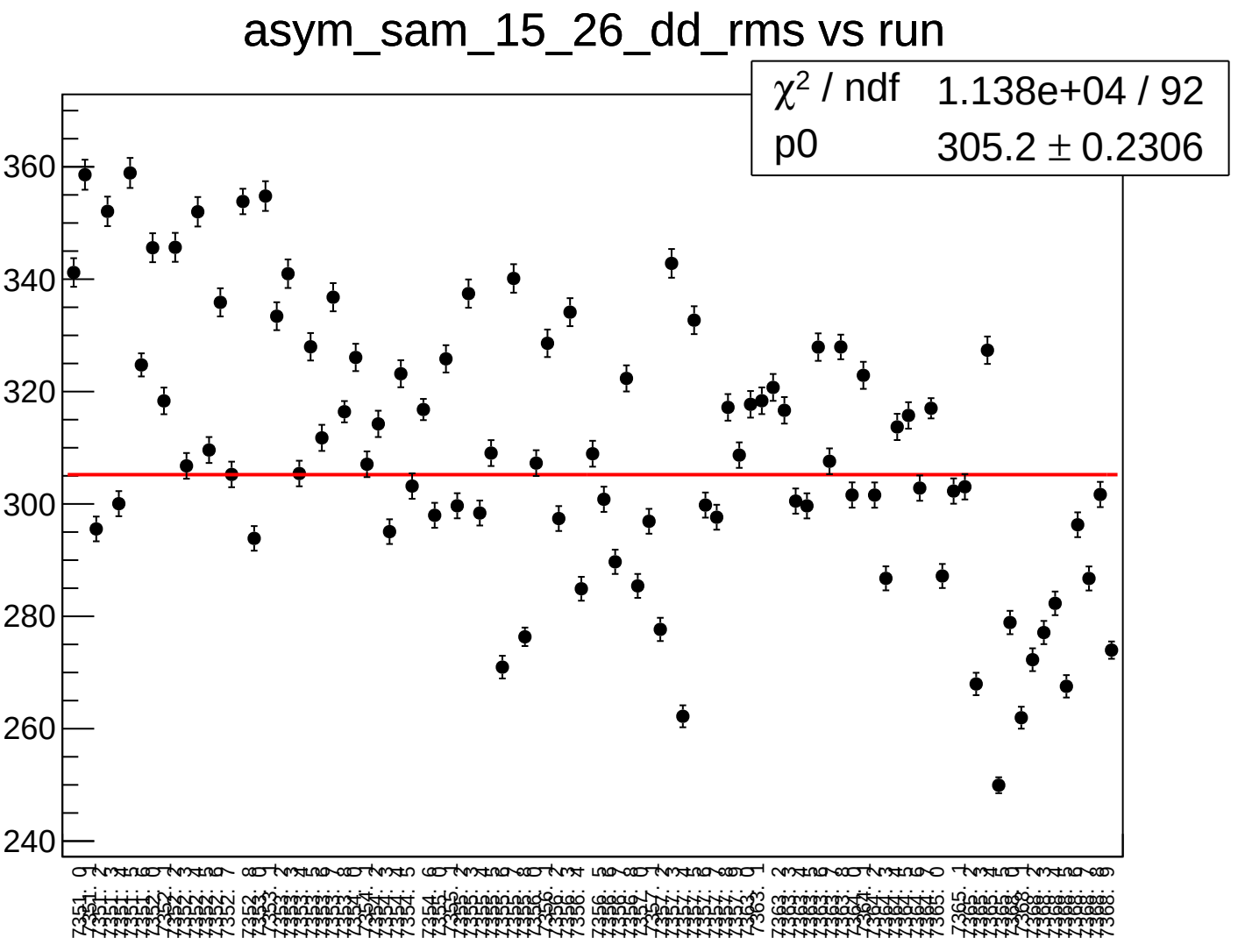

asym_sam_15_26_dd_correction_mean vs run
χ² / ndf 103.5 / 92
p0 −205.9 ± 321.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 93
Mean 547.6
Std Dev 487.3
3
2
1
0
−1
−2
−3

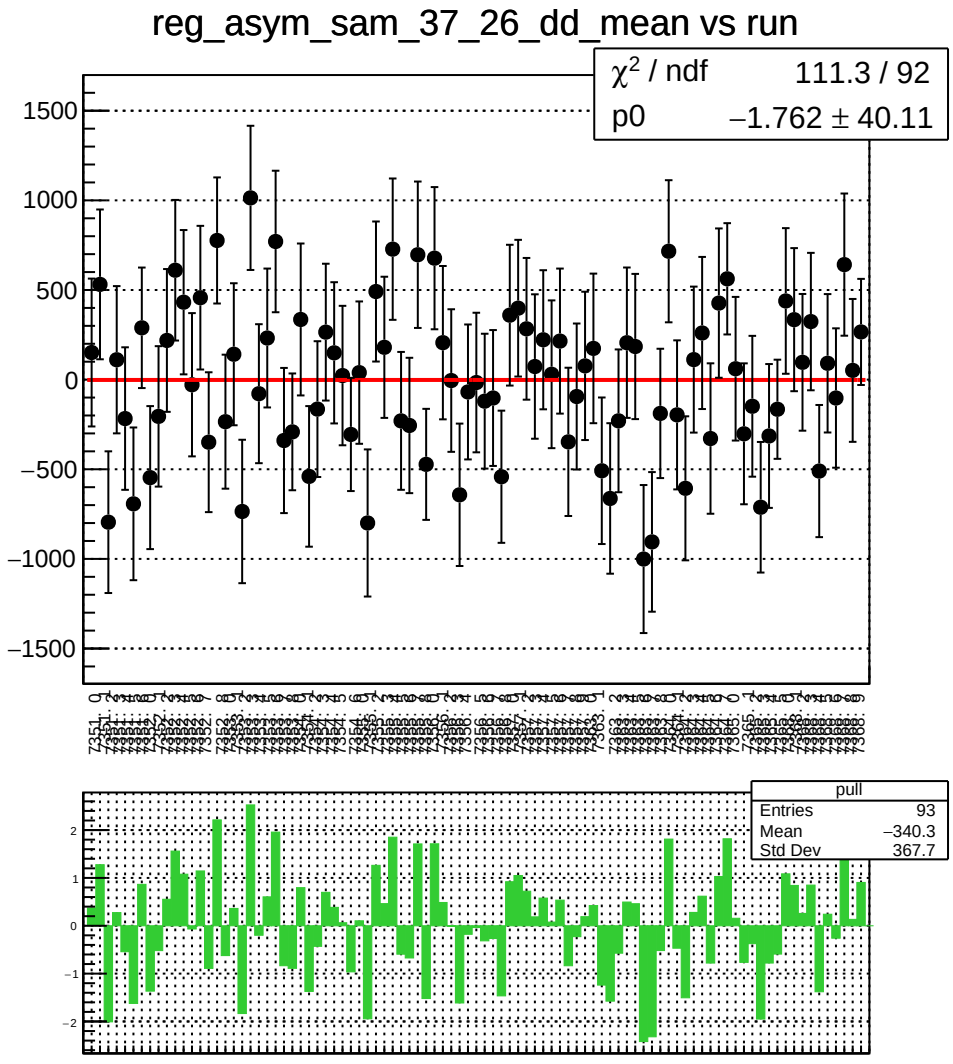

pull1D
Entries 93
Mean −0.006124
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

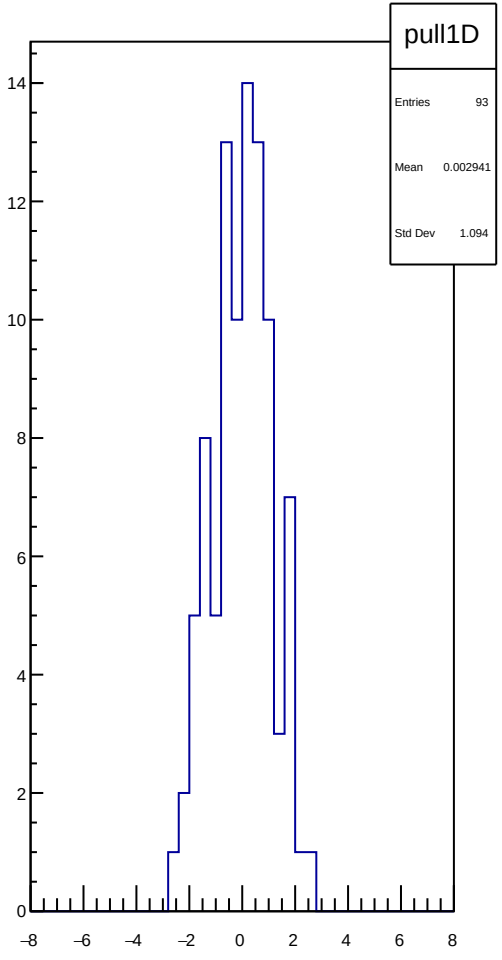

asym_sam_15_26_dd_correction_rms vs run
χ² / ndf 1.188e+04 / 92
p0 300.8 ± 0.2273
360
340
320
300
280
260
240

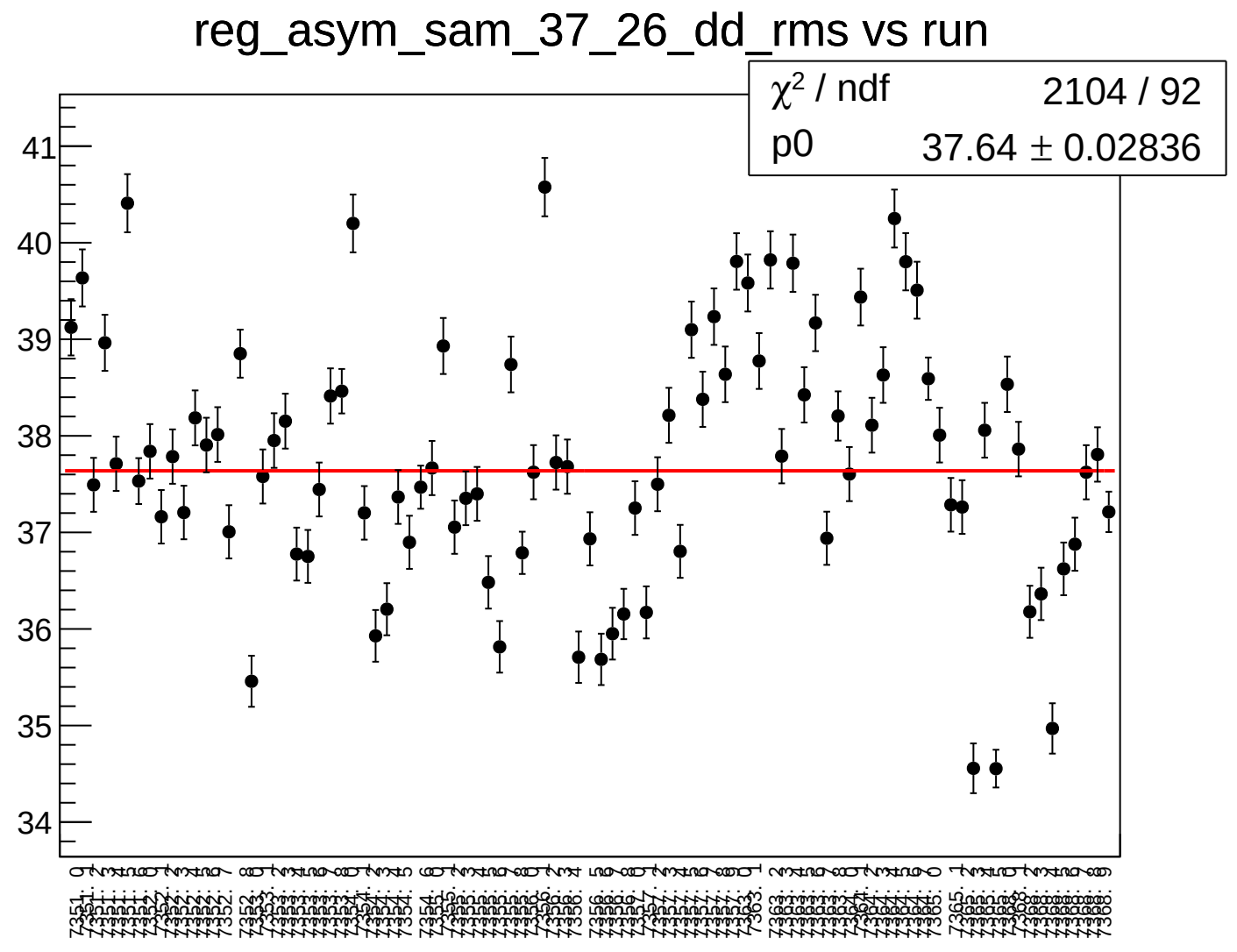

asym_sam_15_26_dd_mean vs run
χ² / ndf 108.3 / 92
p0 232.1 ± 326.1
15000
10000
5000
0
−5000
−10000
pull
Entries 93
Mean 508.3
Std Dev 449.5
3
2
1
0
−1
−2
−3

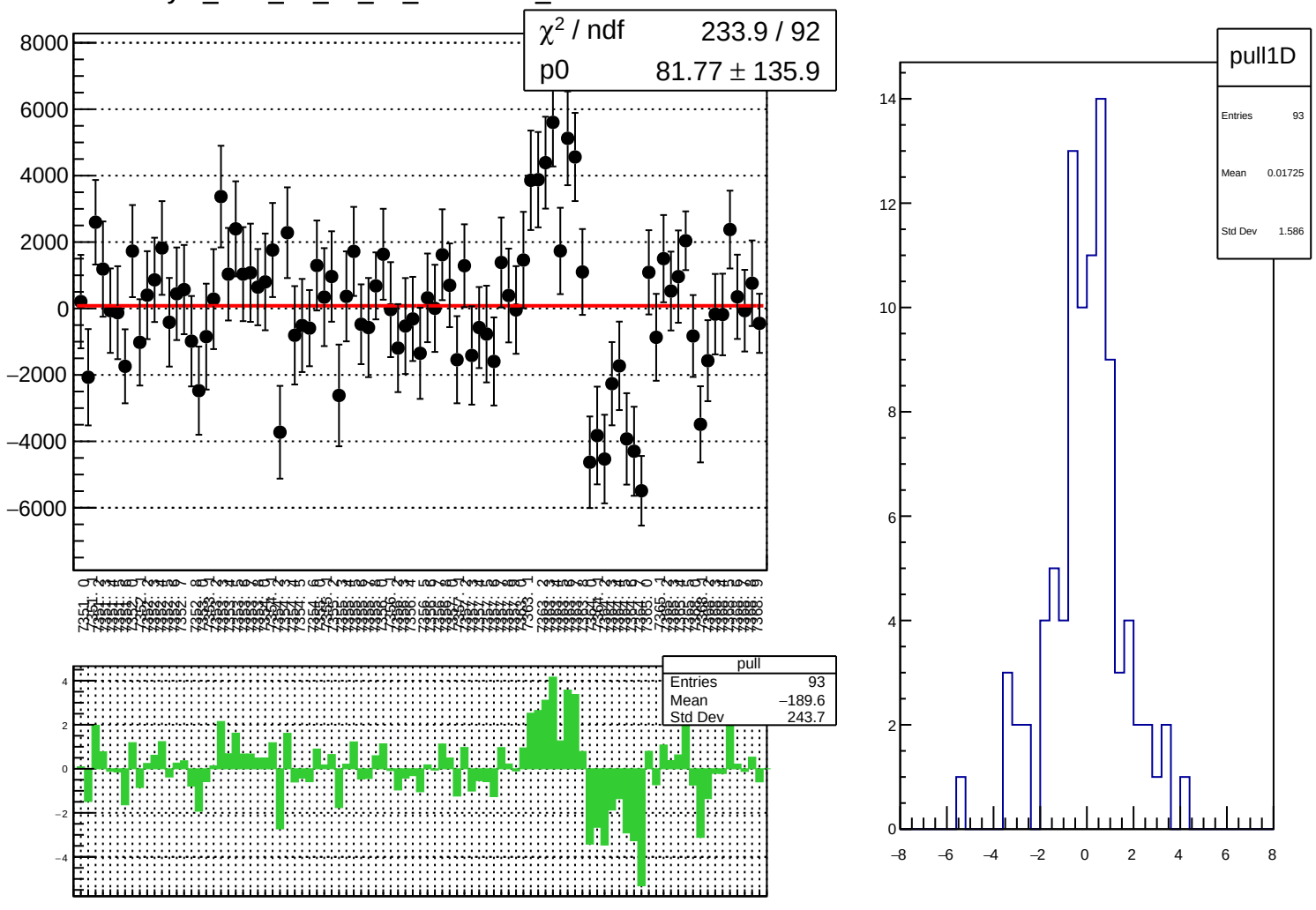

pull1D
Entries 93
Mean 0.006465
Std Dev 1.079
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

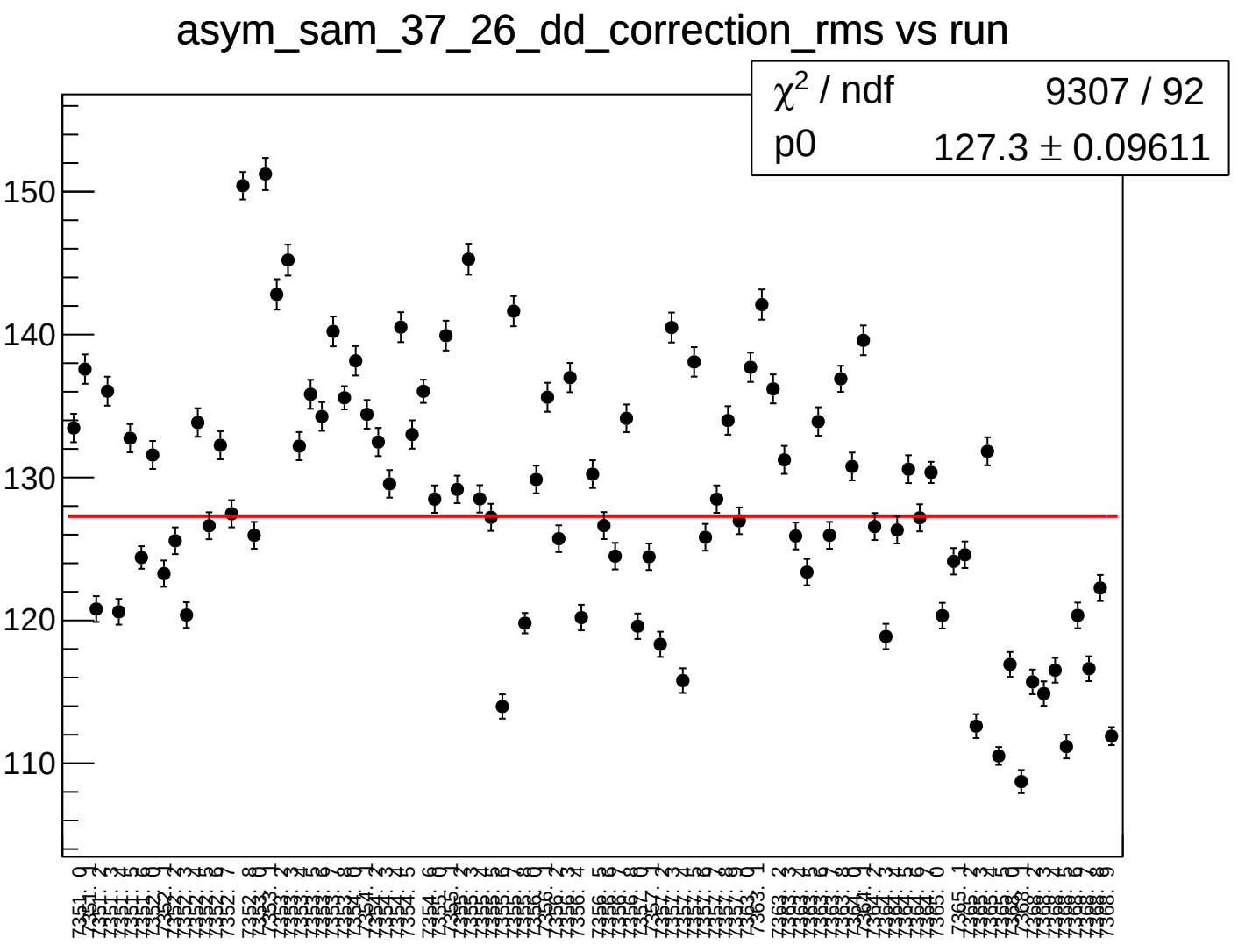

asym_sam_15_26_dd_rms vs run
χ² / ndf 1.138e+04 / 92
p0 305.2 ± 0.2306
360
340
320
300
280
260
240

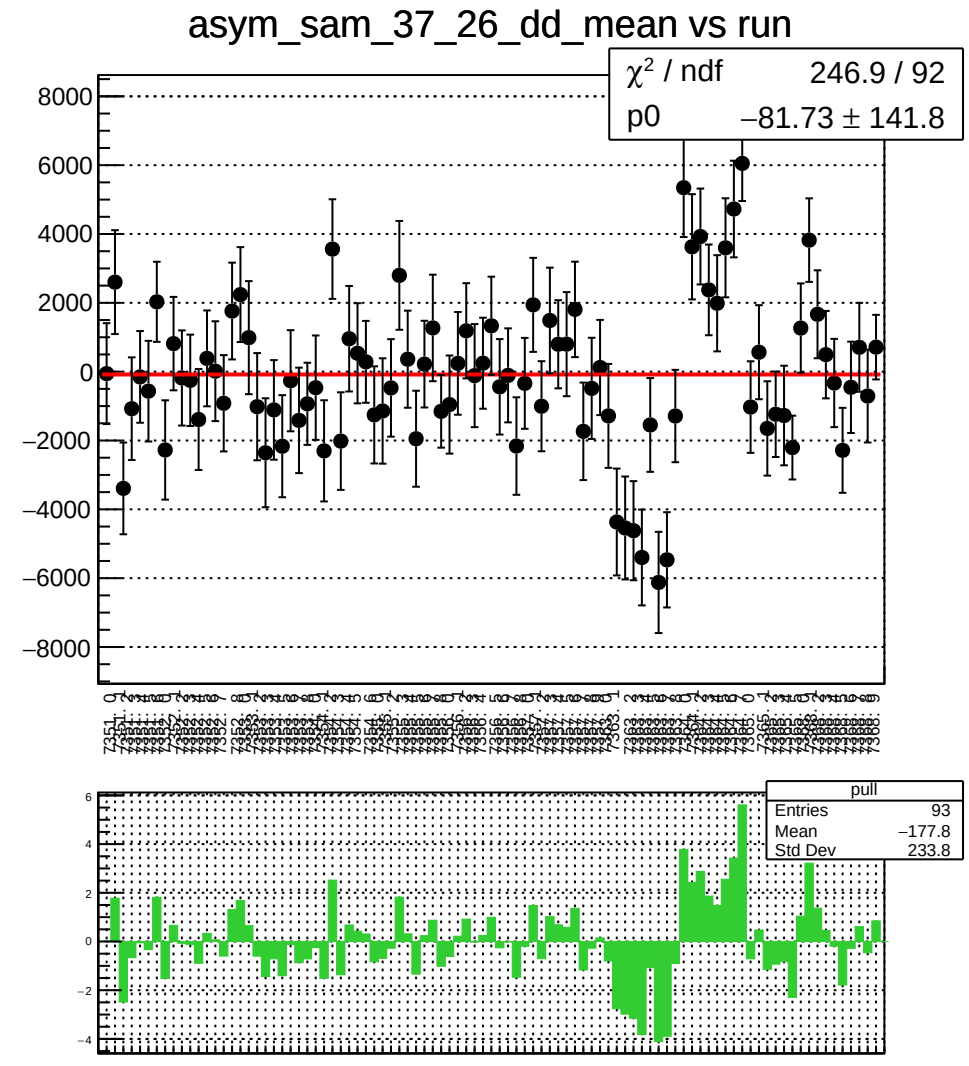

reg_asym_sam_37_26_dd_mean vs run
χ² / ndf 111.3 / 92
p0 −1.762 ± 40.11
pull
Entries 93
Mean −340.3
Std Dev 367.7

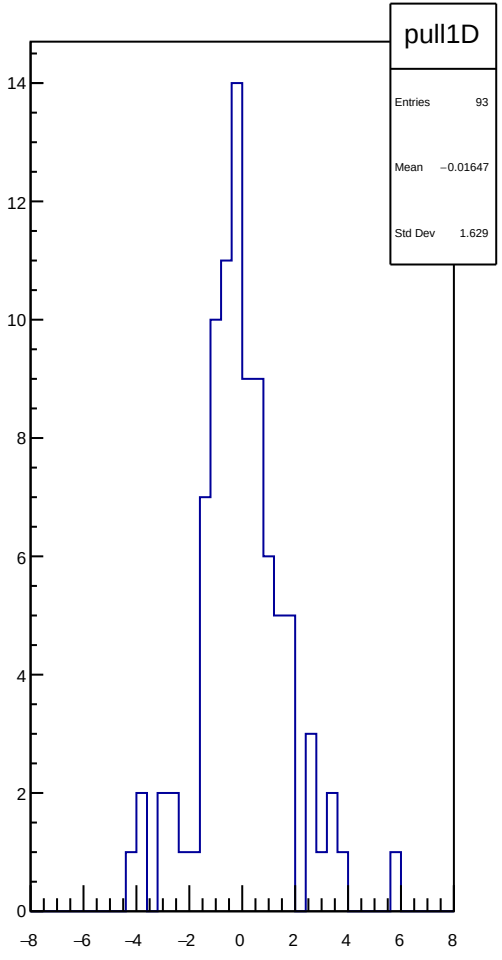

pull1D
Entries 93
Mean 0.002941
Std Dev 1.094

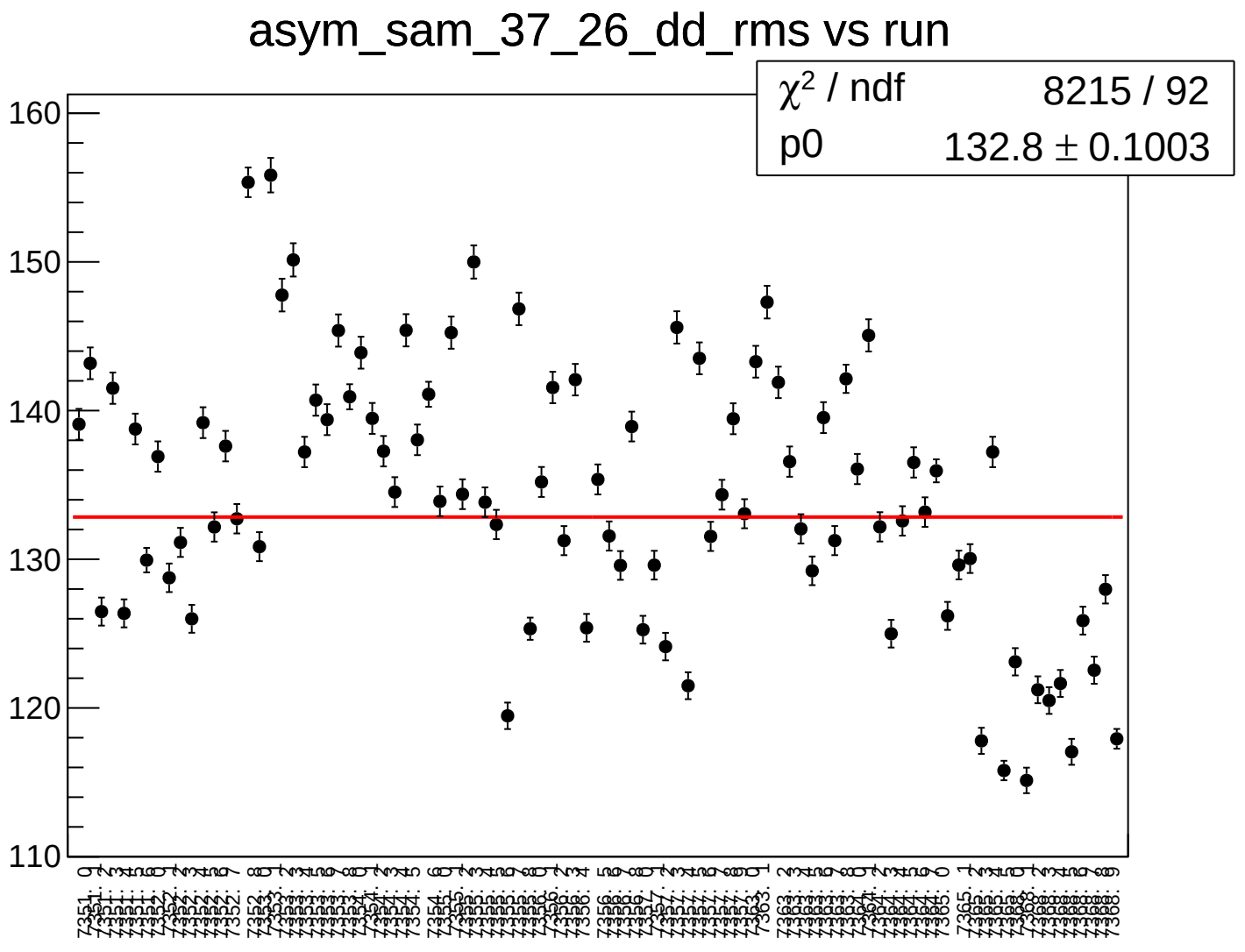

reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 2104 / 92
p0 37.64 ± 0.02836
41
40
39
38
37
36
35
34

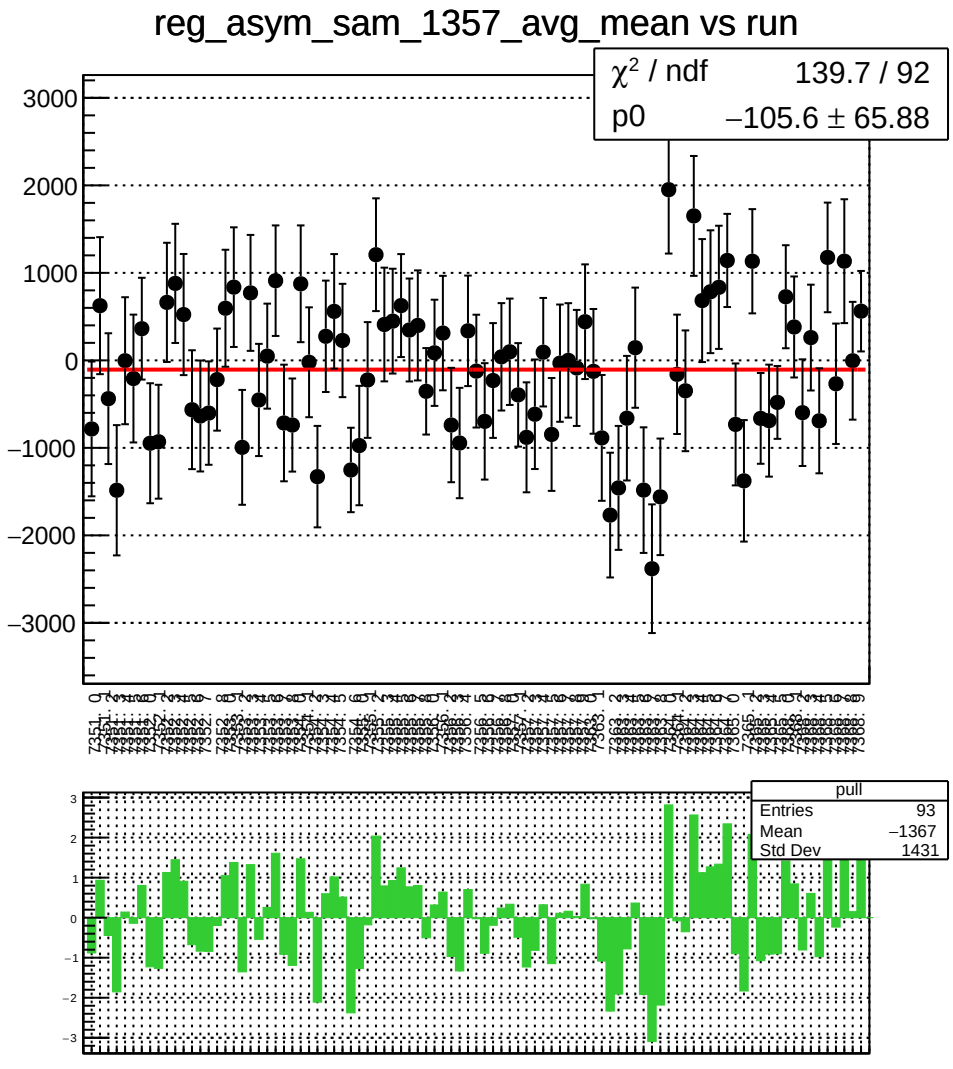

asym_sam_37_26_dd_correction_mean vs run
χ² / ndf 233.9 / 92
p0 81.77 ± 135.9
pull
Entries 93
Mean −189.6
Std Dev 243.7
pull1D
Entries 93
Mean 0.01725
Std Dev 1.586

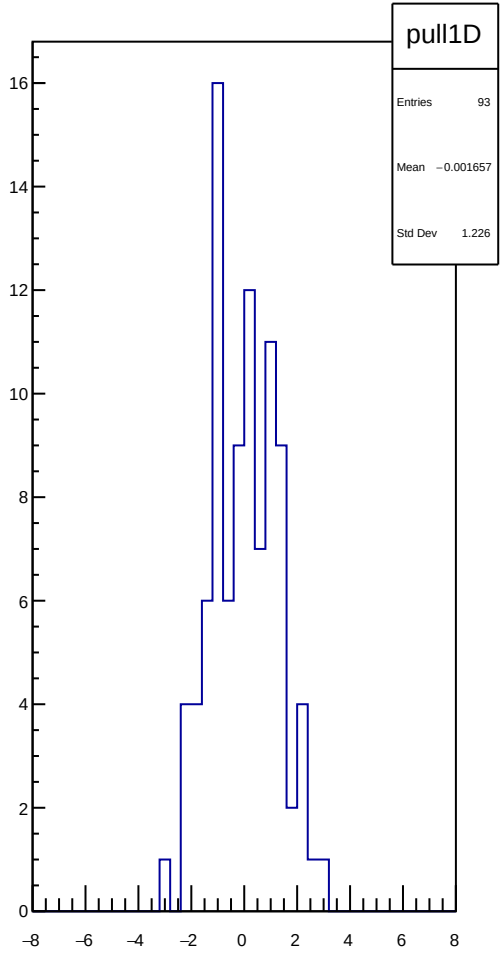

asym_sam_37_26_dd_correction_rms vs run
χ² / ndf 9307 / 92
p0 127.3 ± 0.09611
150
140
130
120
110

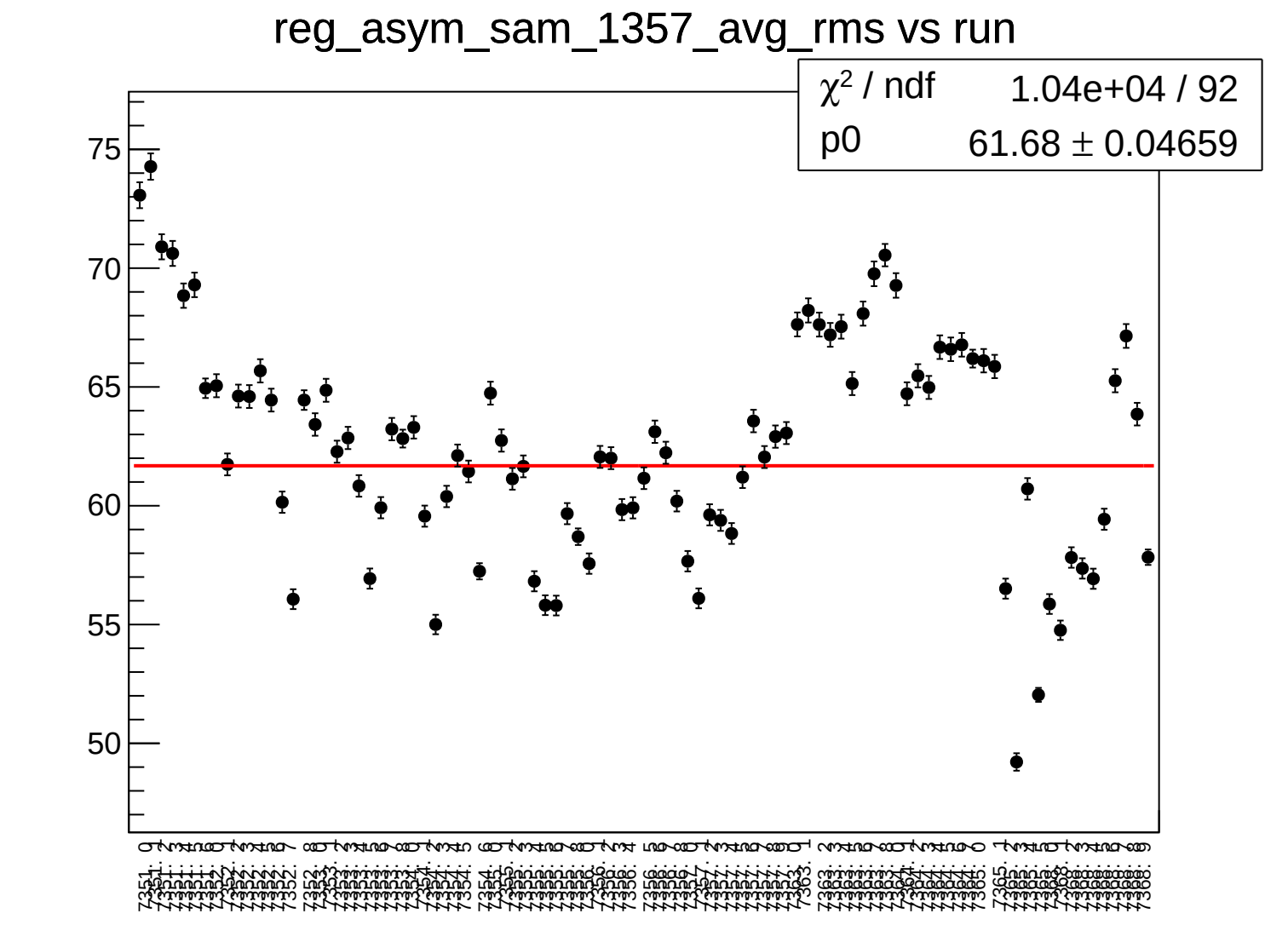

asym_sam_37_26_dd_mean vs run
χ² / ndf 246.9 / 92
p0 −81.73 ± 141.8
pull
Entries 93
Mean −177.8
Std Dev 233.8

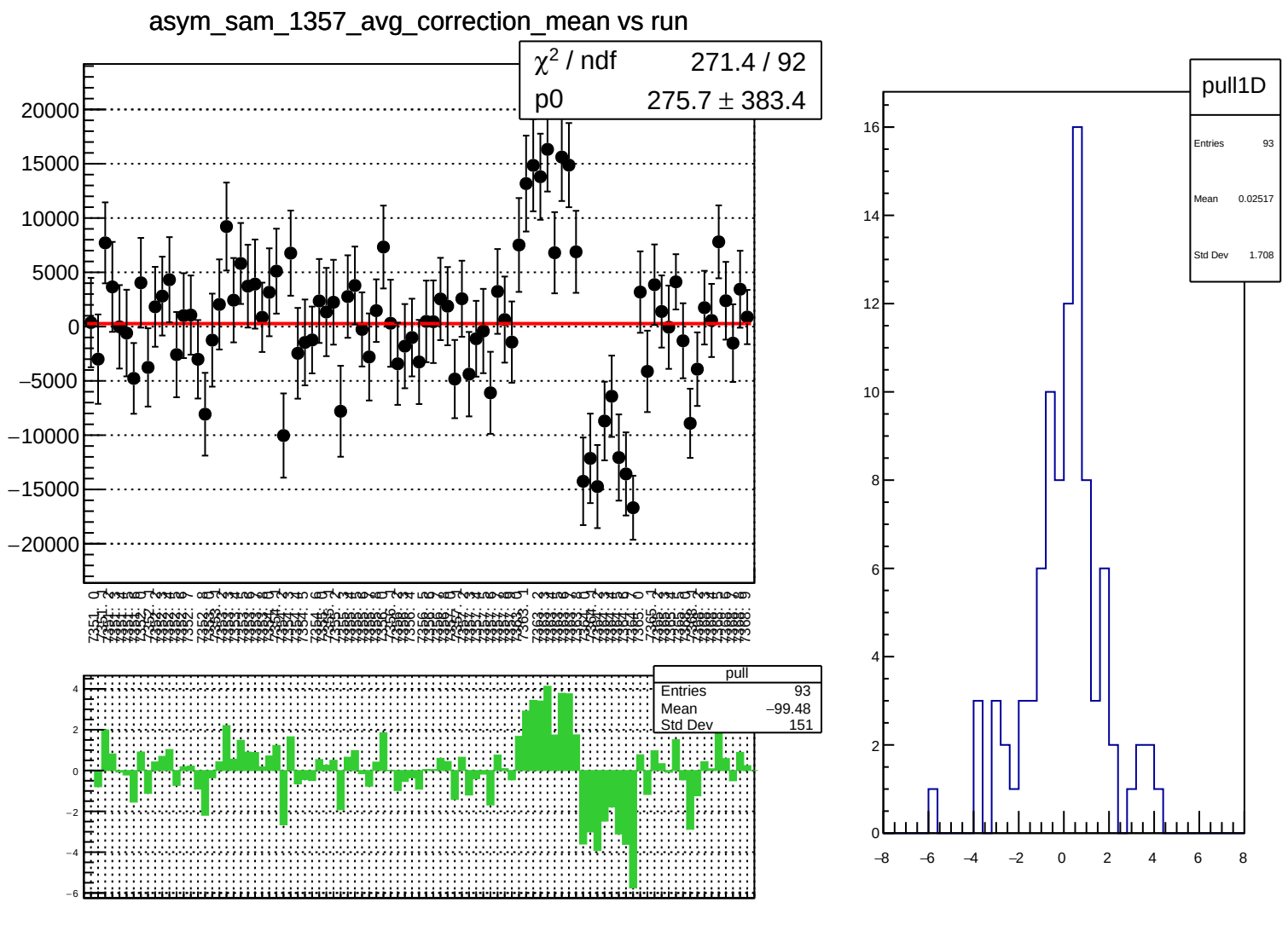

pull1D
Entries 93
Mean −0.01647
Std Dev 1.629

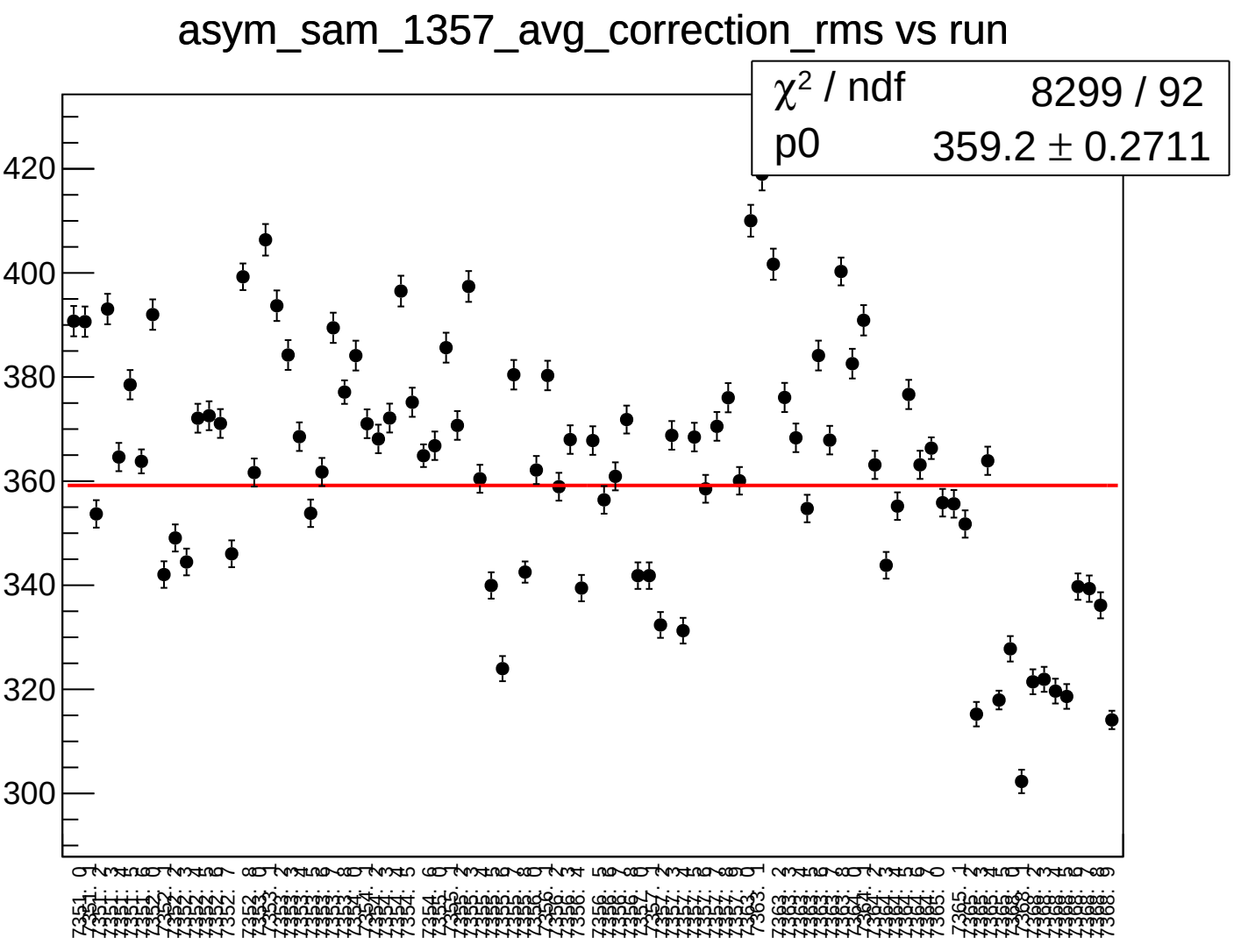

asym_sam_37_26_dd_rms vs run
χ² / ndf 8215 / 92
p0 132.8 ± 0.1003
160
150
140
130
120
110

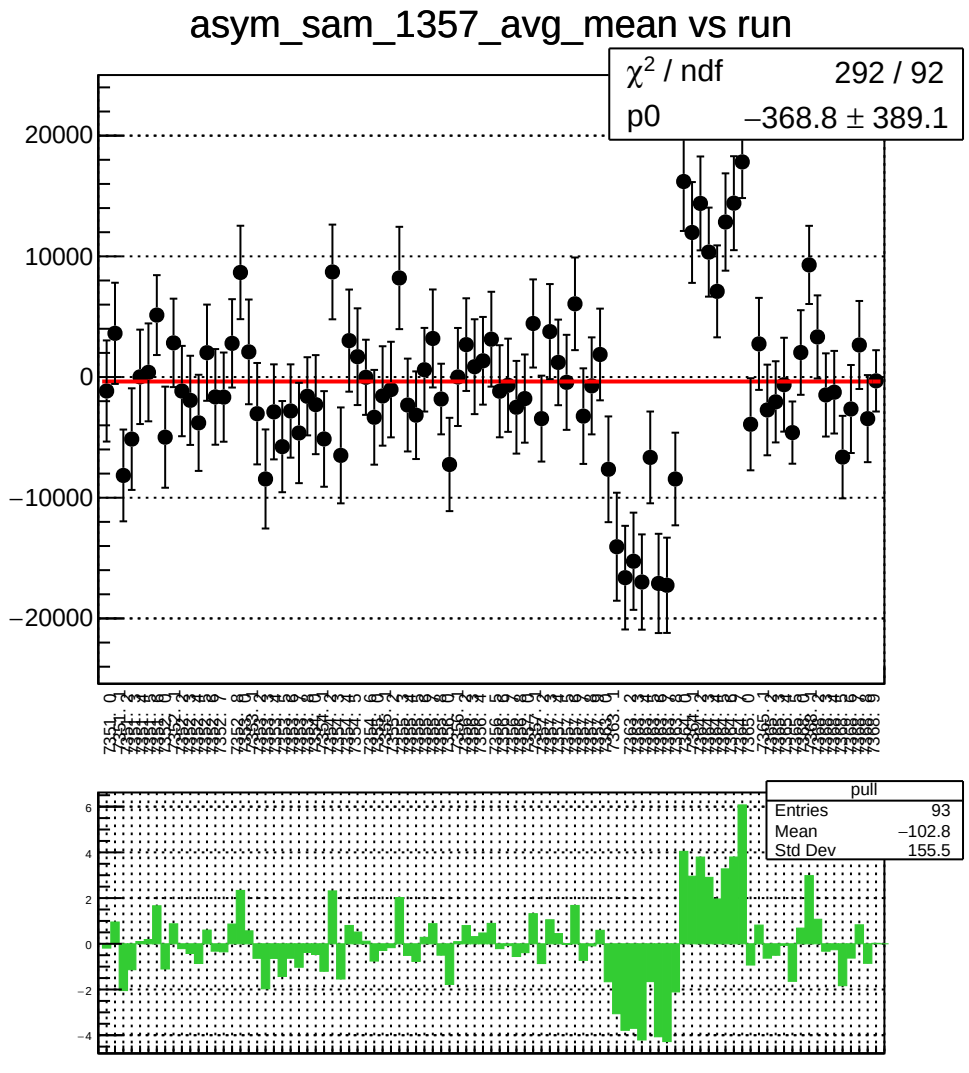

reg_asym_sam_1357_avg_mean vs run
χ² / ndf 139.7 / 92
p0 −105.6 ± 65.88
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 93
Mean −1367
Std Dev 1431
3
2
1
0
−1
−2
−3

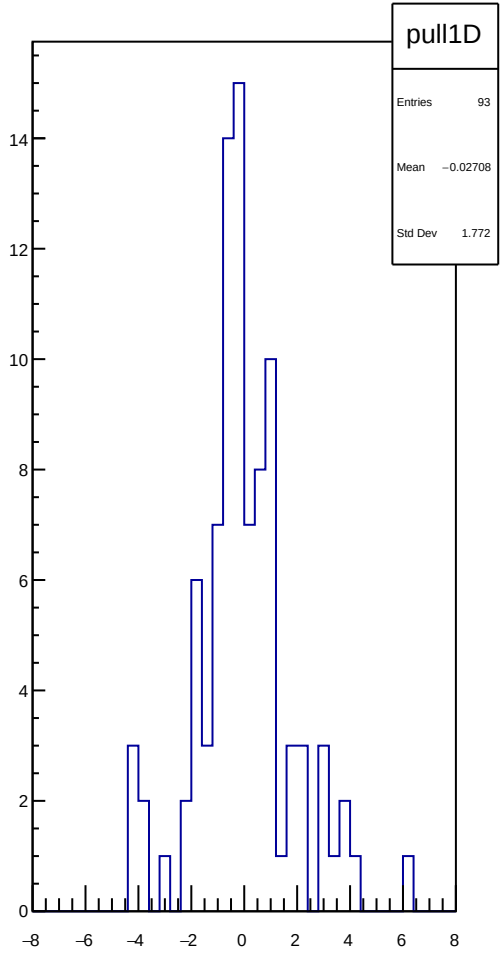

pull1D
Entries 93
Mean −0.001657
Std Dev 1.226
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

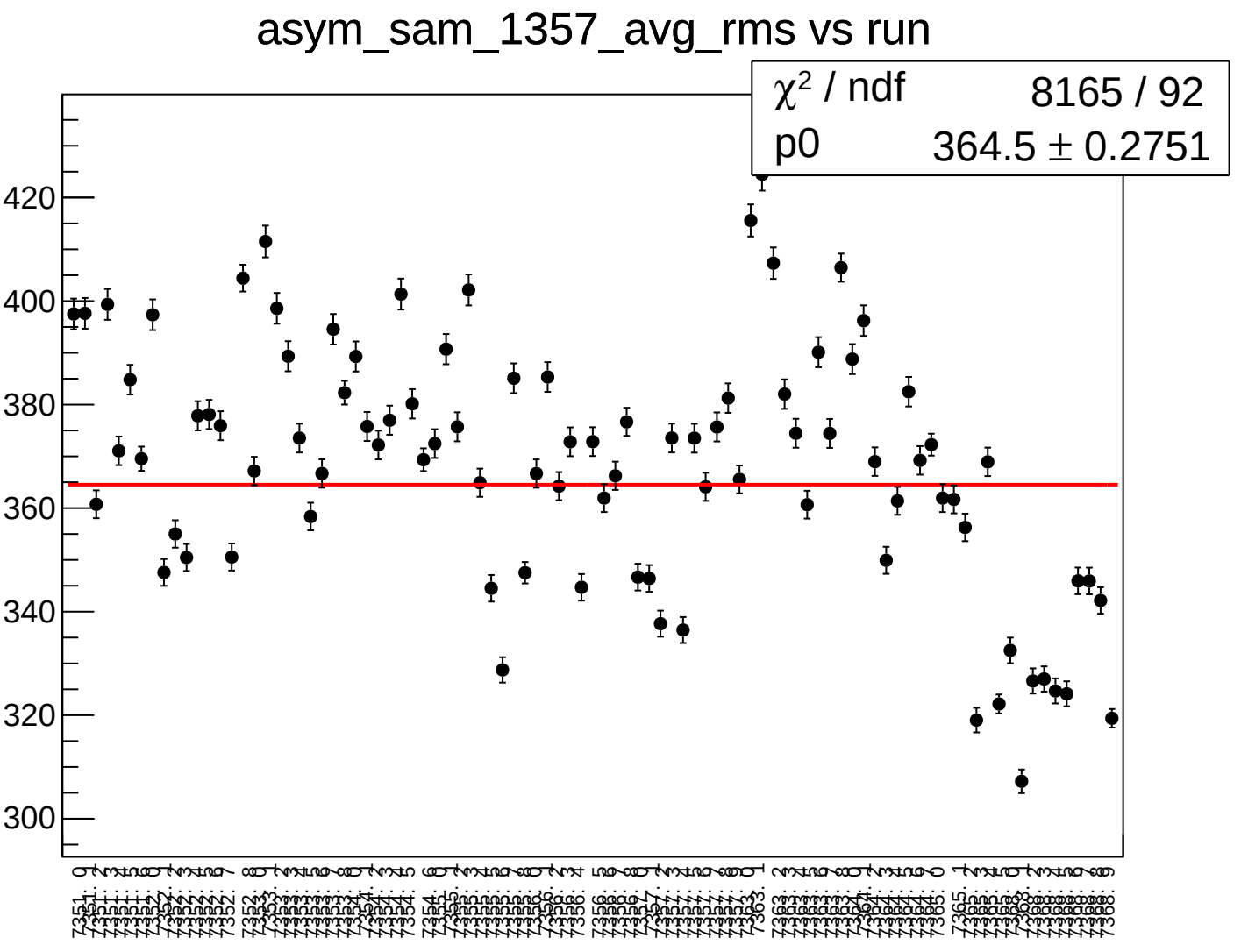

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 1.04e+04 / 92
p0 61.68 ± 0.04659
75
70
65
60
55
50

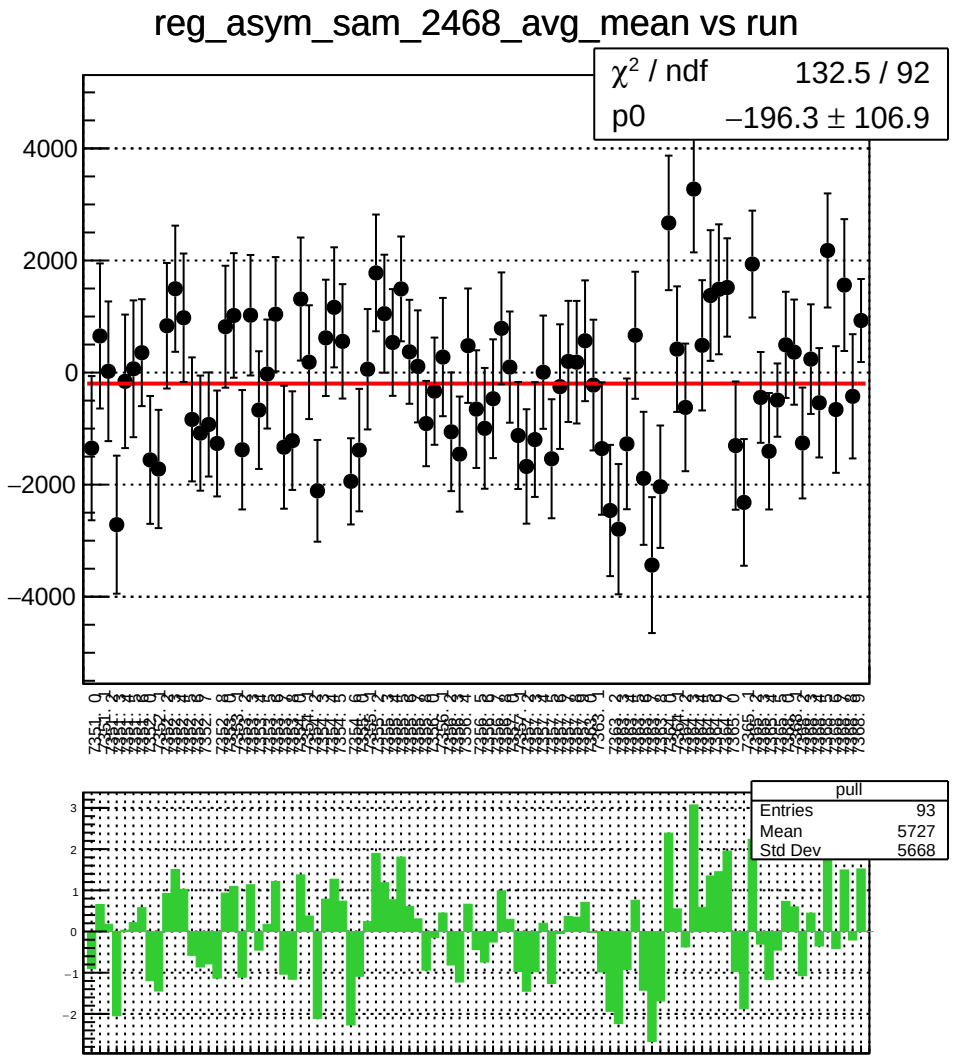

asym_sam_1357_avg_correction_mean vs run
χ² / ndf 271.4 / 92
p0 275.7 ± 383.4
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 93
Mean −99.48
Std Dev 151
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean 0.02517
Std Dev 1.708
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

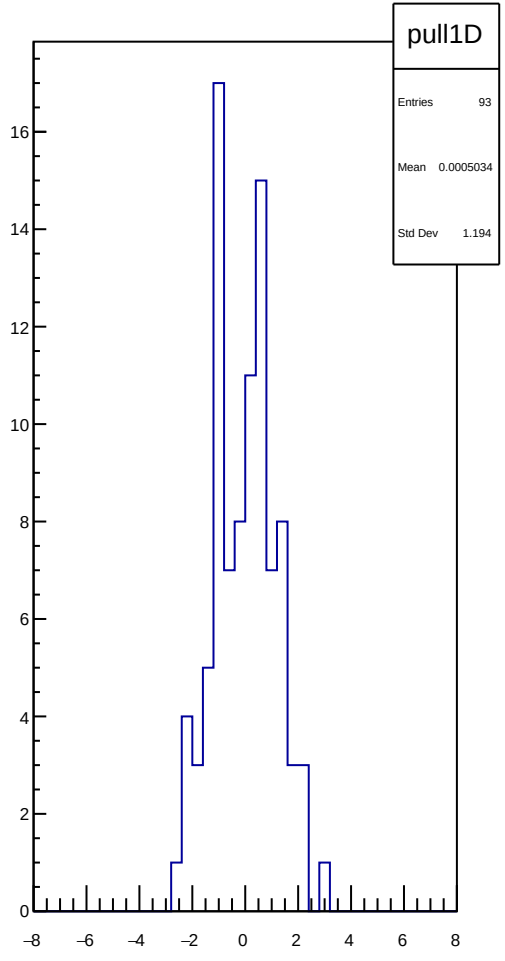

asym_sam_1357_avg_correction_rms vs run
χ² / ndf 8299 / 92
p0 359.2 ± 0.2711
420
400
380
360
340
320
300

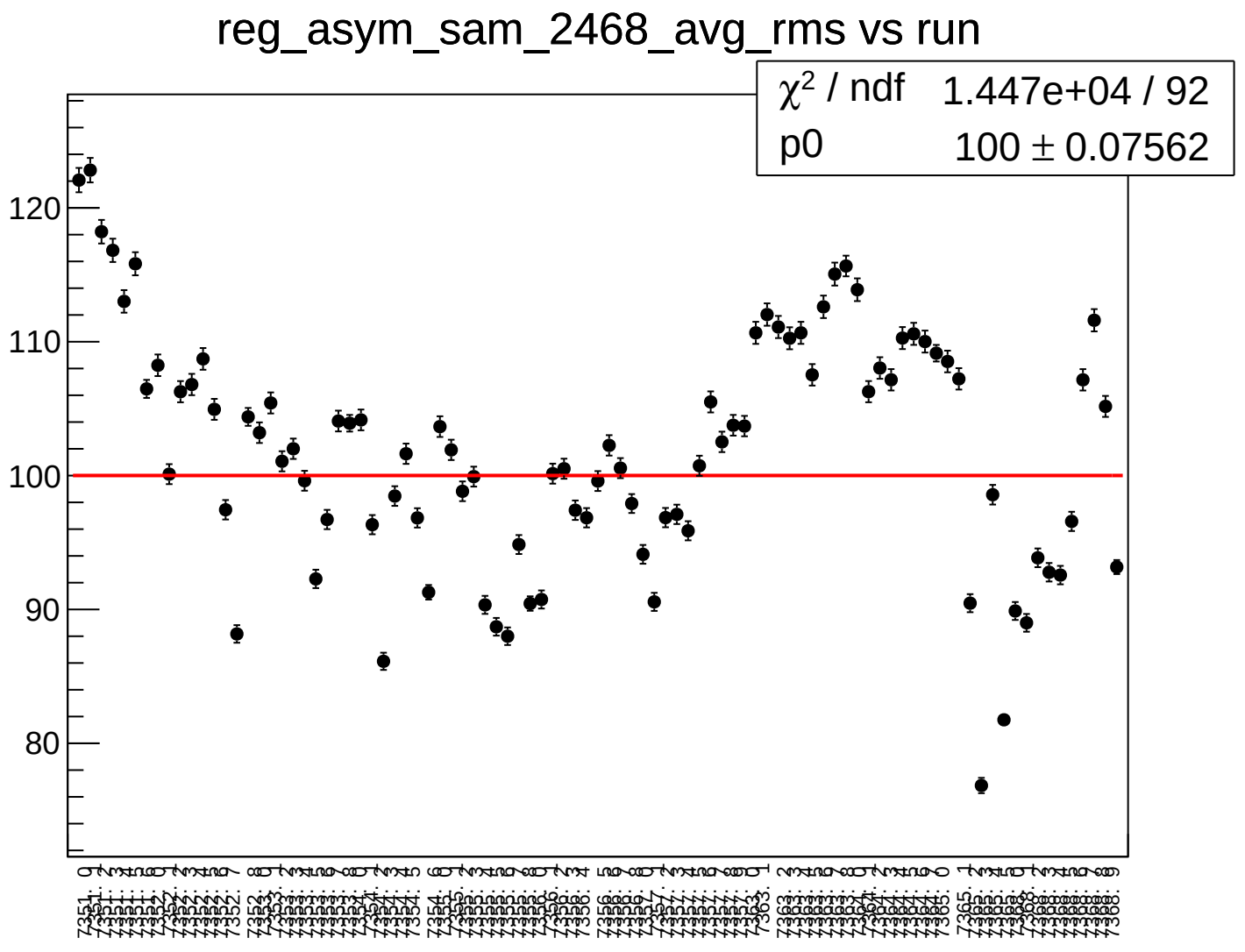

asym_sam_1357_avg_mean vs run
χ² / ndf 292 / 92
p0 −368.8 ± 389.1
20000
10000
0
−10000
−20000
pull
Entries 93
Mean −102.8
Std Dev 155.5
6
4
2
0
−2
−4

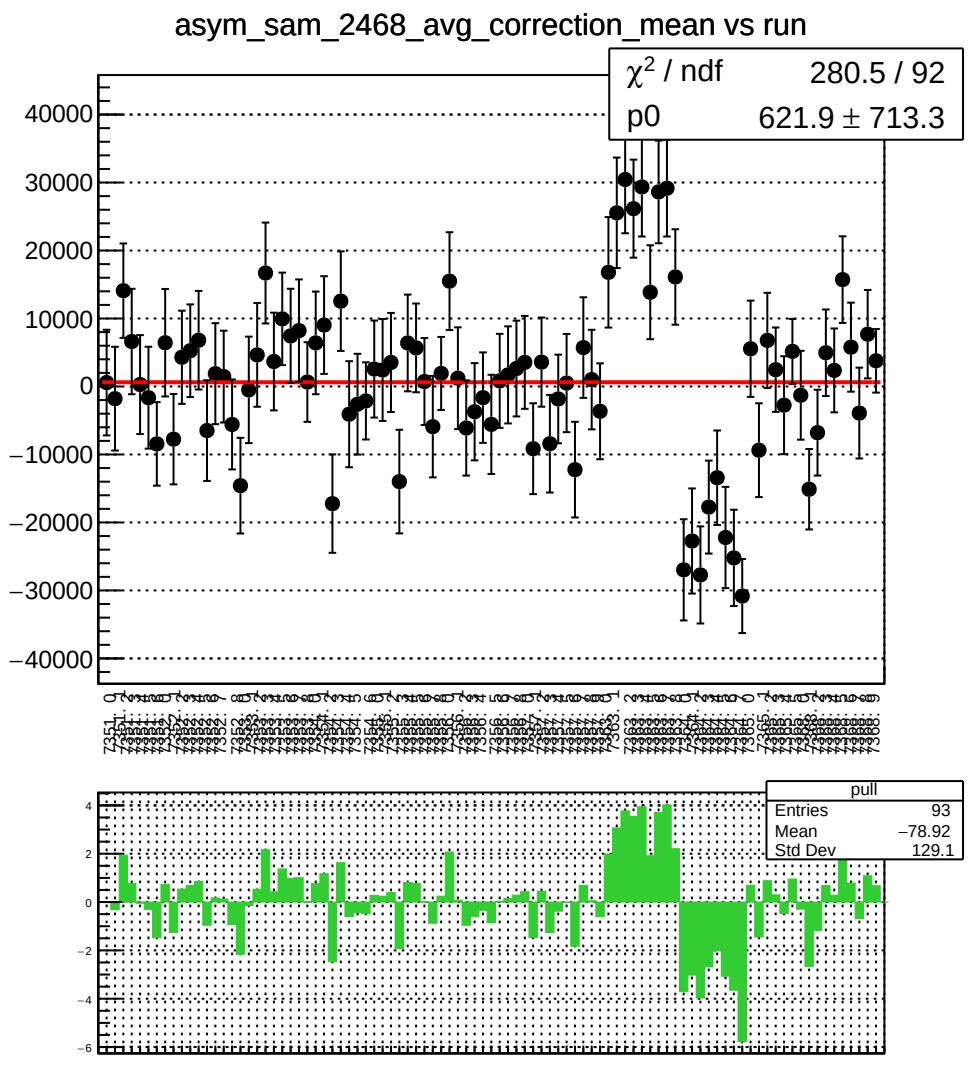

pull1D
Entries 93
Mean −0.02708
Std Dev 1.772
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

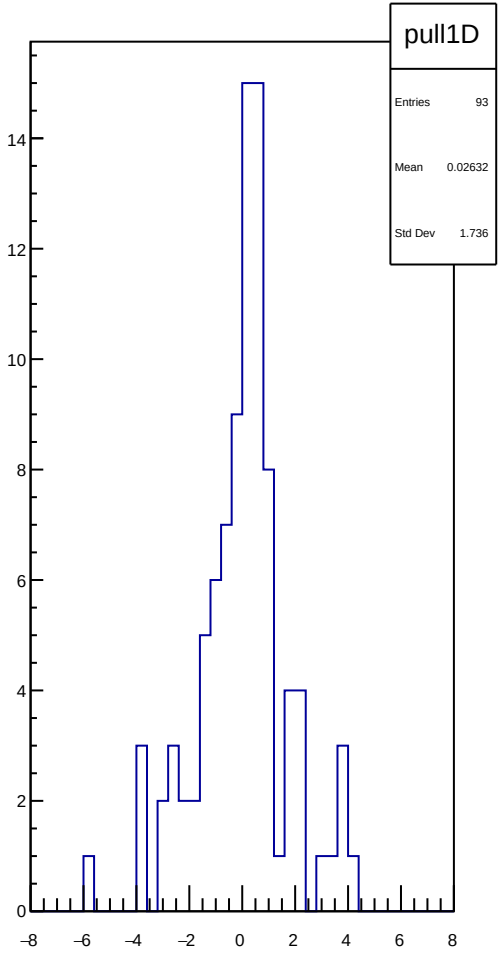

asym_sam_1357_avg_rms vs run
χ² / ndf 8165 / 92
p0 364.5 ± 0.2751
420
400
380
360
340
320
300

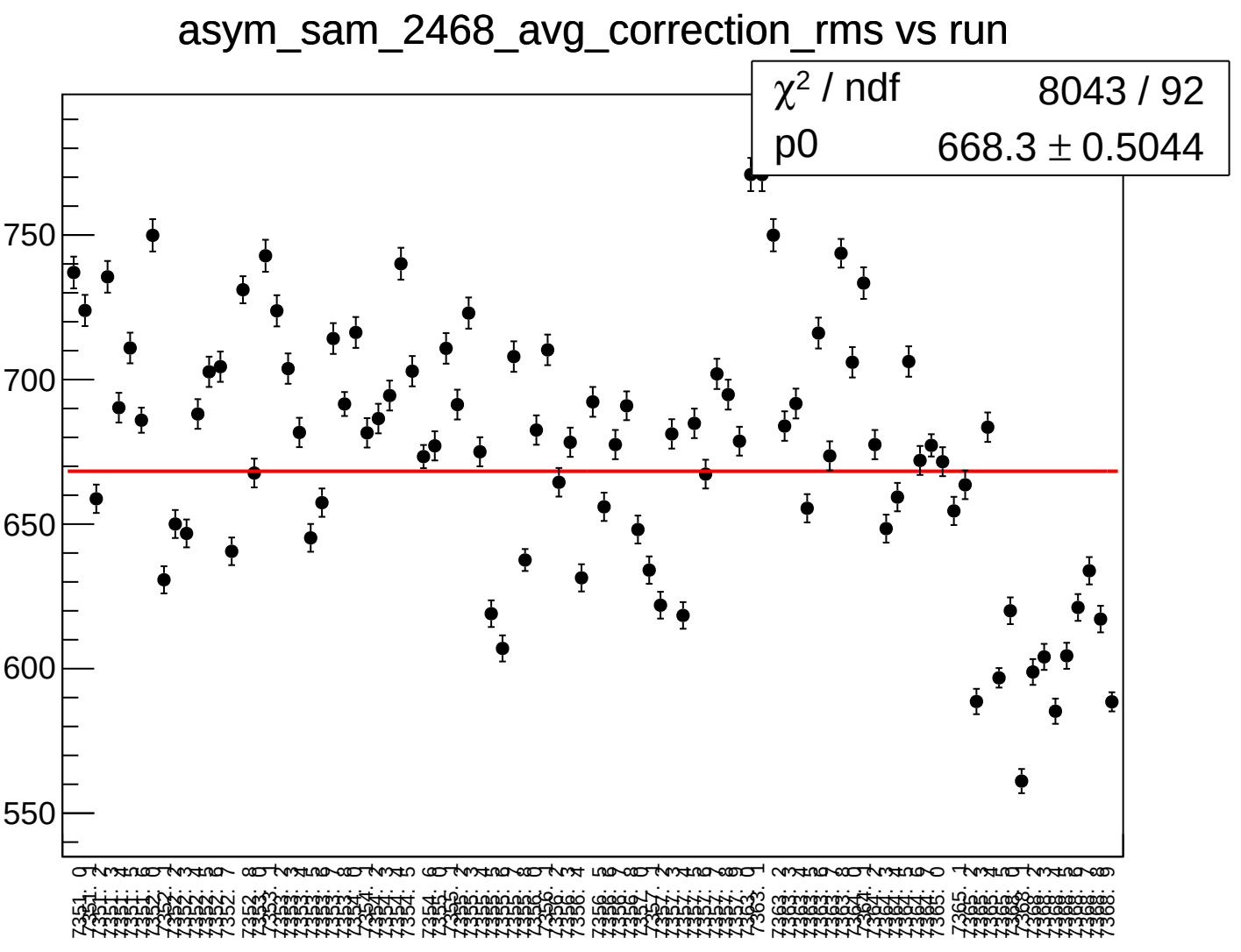

reg_asym_sam_2468_avg_mean vs run
χ² / ndf 132.5 / 92
p0 −196.3 ± 106.9
4000
2000
0
−2000
−4000
pull
Entries 93
Mean 5727
Std Dev 5668
3
2
1
0
−1
−2

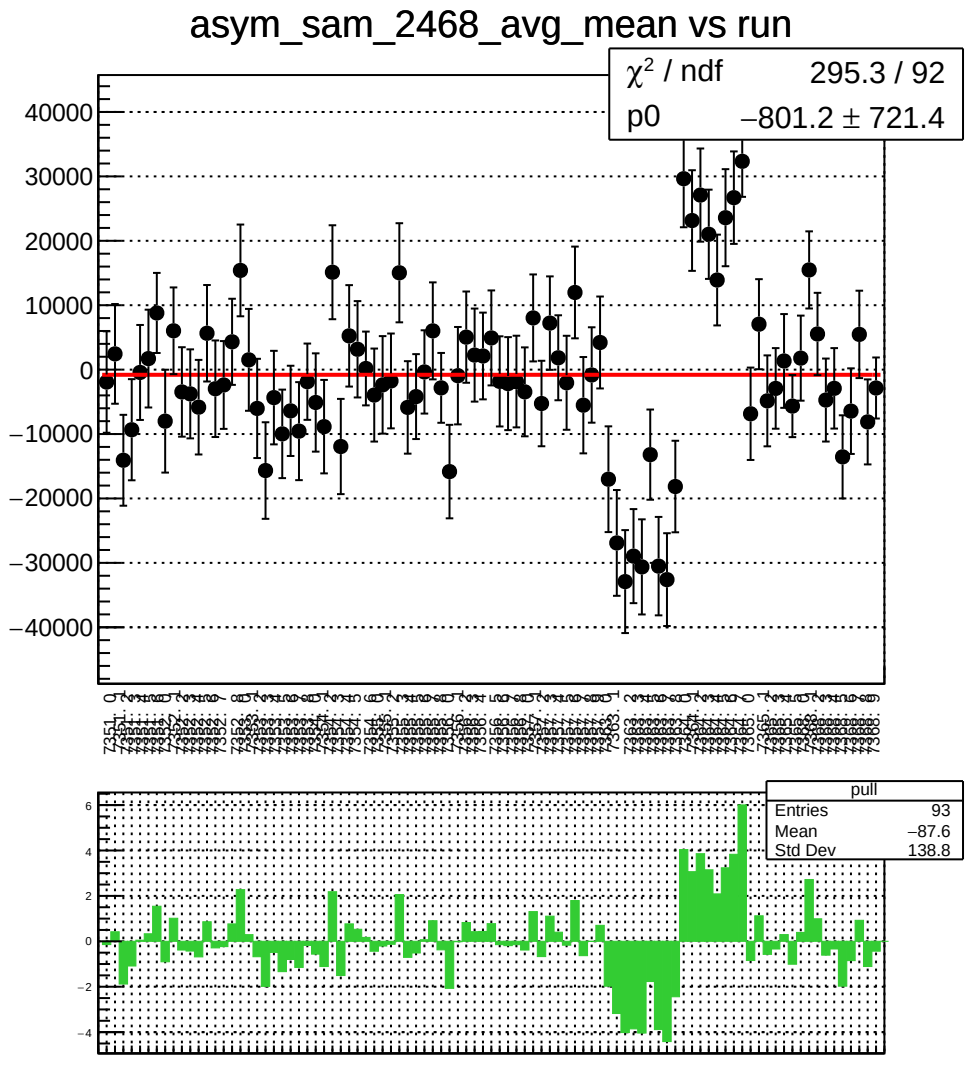

pull1D
Entries 93
Mean 0.0005034
Std Dev 1.194
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

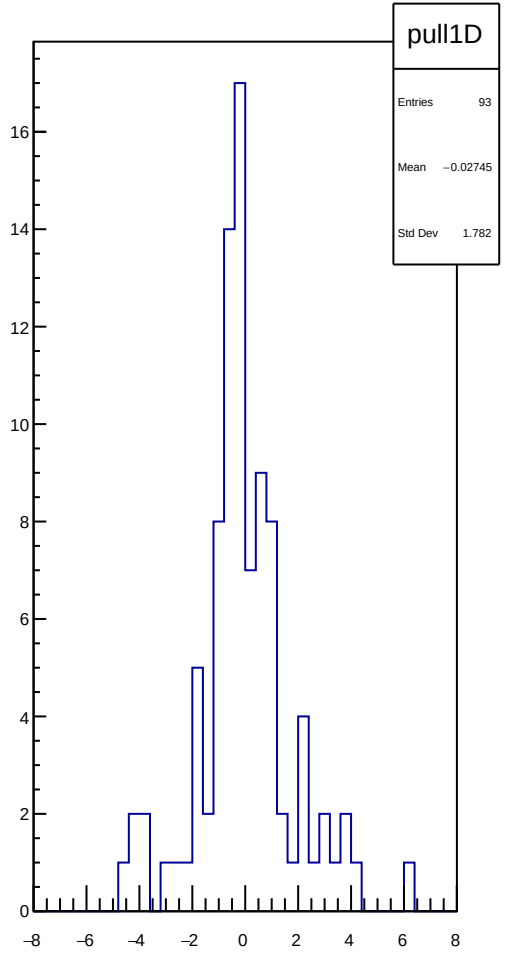

reg_asym_sam_2468_avg_rms vs run
χ^2 / ndf 1.447e+04 / 92
p0 100 ± 0.07562
120
110
100
90
80

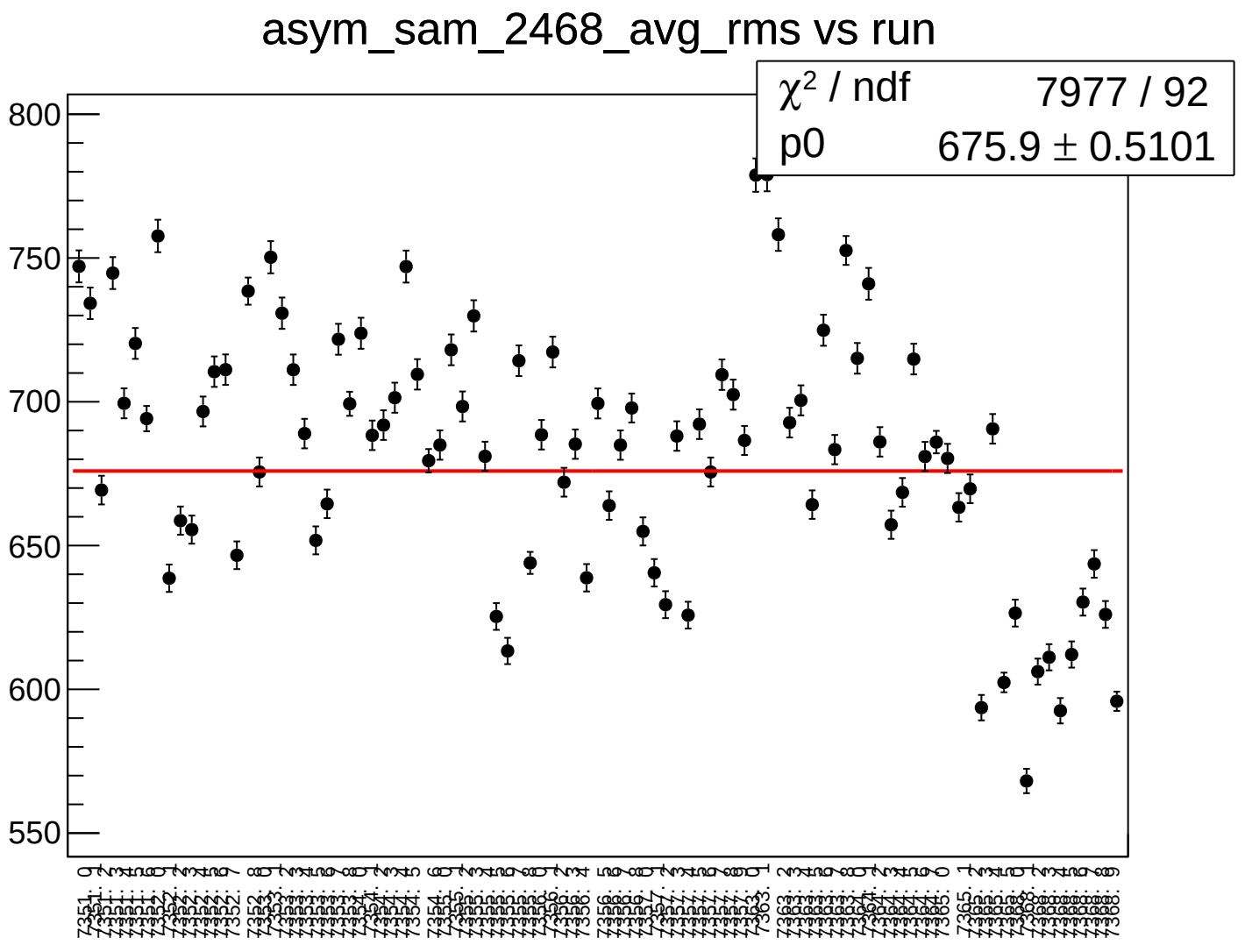

asym_sam_2468_avg_correction_mean vs run
χ² / ndf 280.5 / 92
p0 621.9 ± 713.3
pull
Entries 93
Mean −78.92
Std Dev 129.1

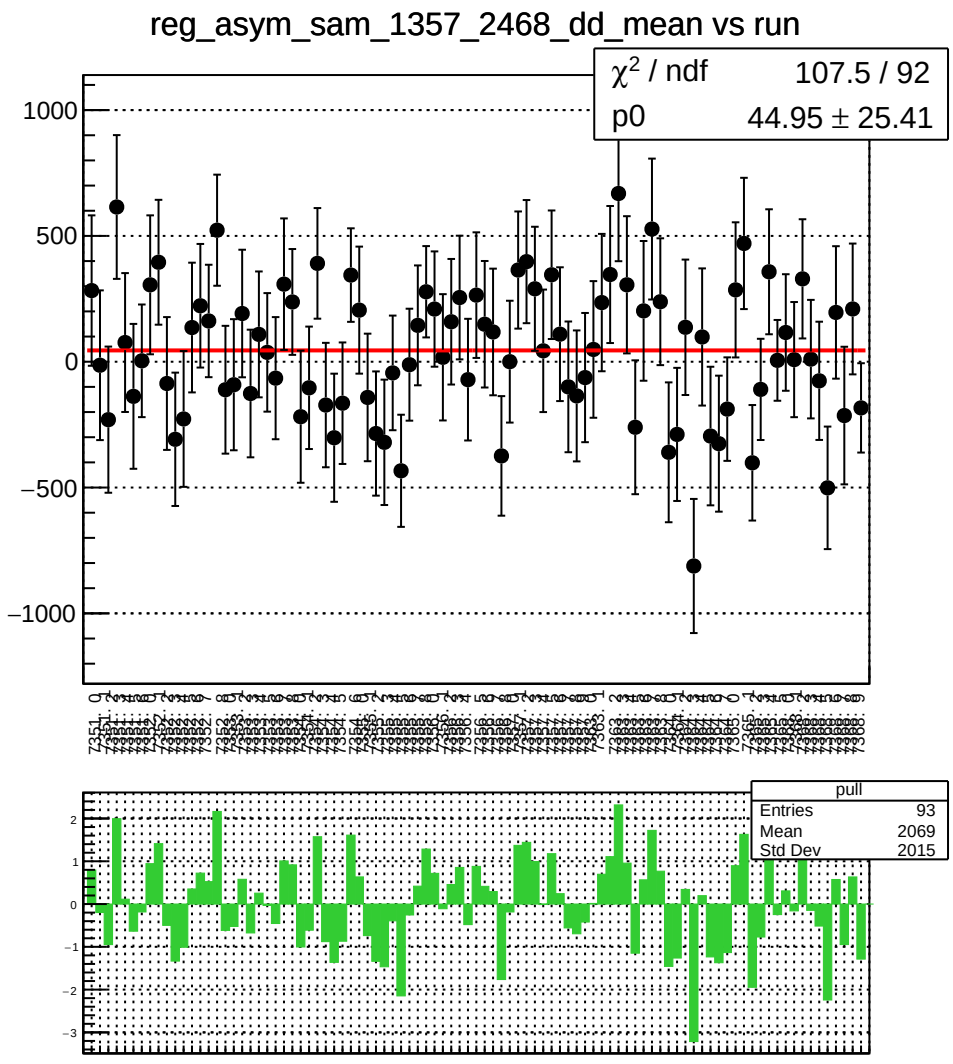

pull1D
Entries 93
Mean 0.02632
Std Dev 1.736

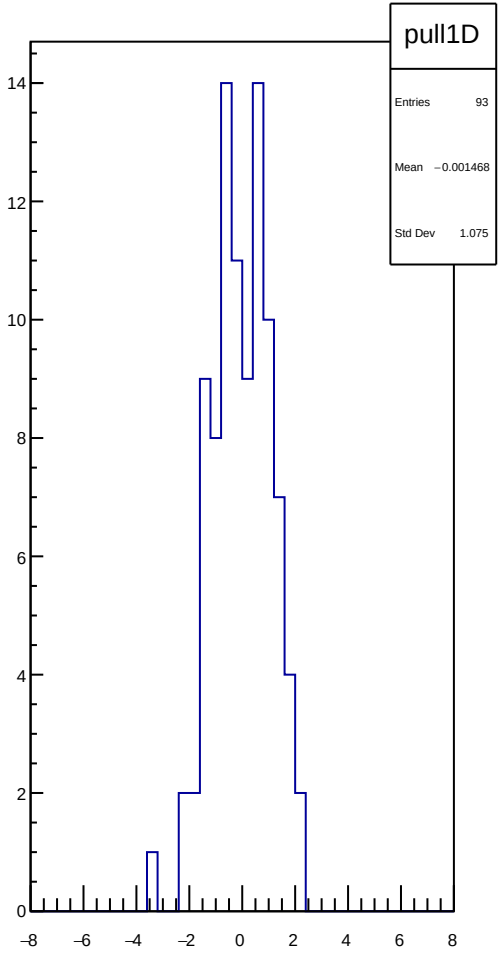

asym_sam_2468_avg_correction_rms vs run
χ² / ndf 8043 / 92
p0 668.3 ± 0.5044
750
700
650
600
550

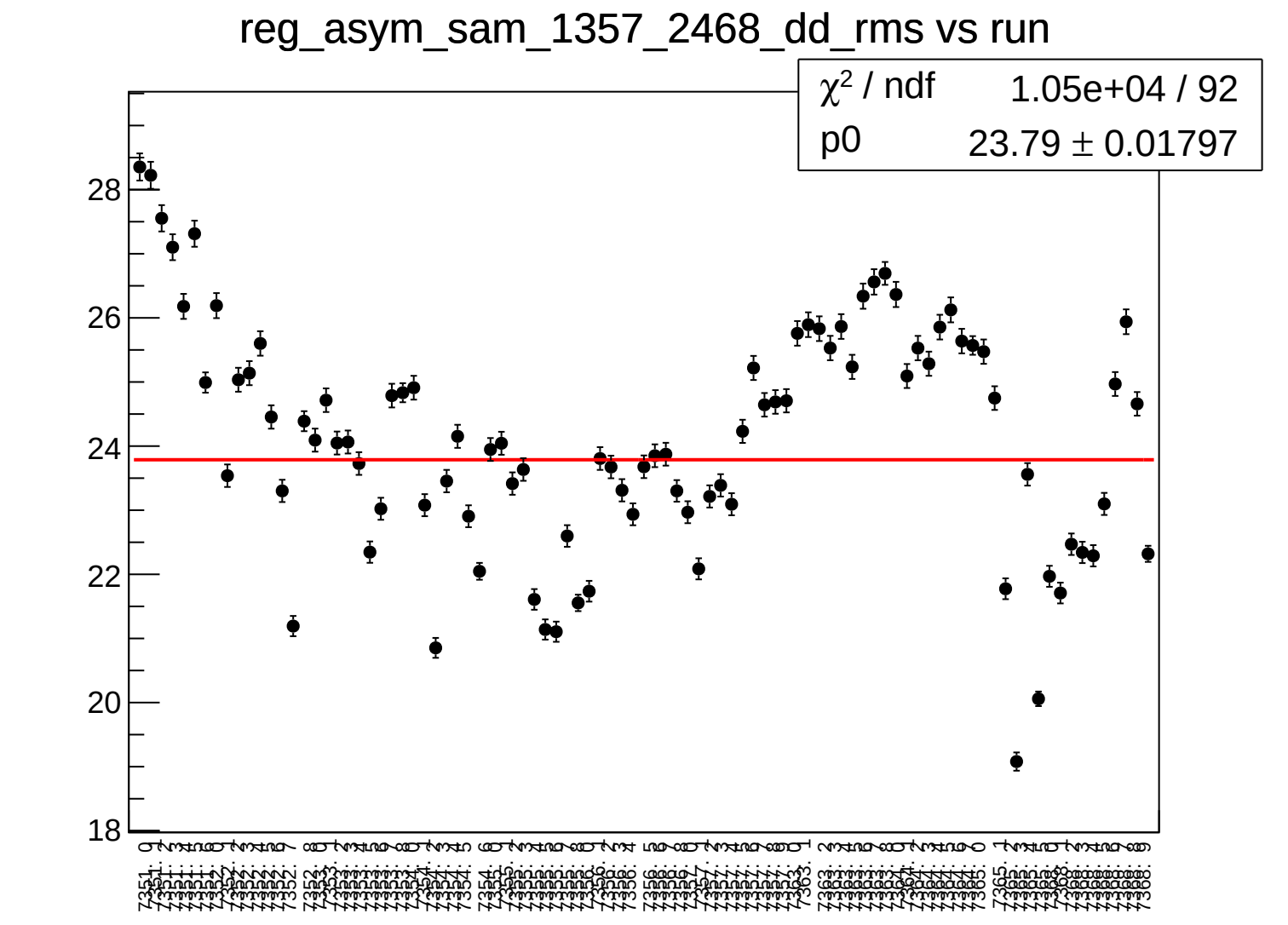

asym_sam_2468_avg_mean vs run
χ² / ndf 295.3 / 92
p0 −801.2 ± 721.4
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 93
Mean −87.6
Std Dev 138.8
6
4
2
0
−2
−4

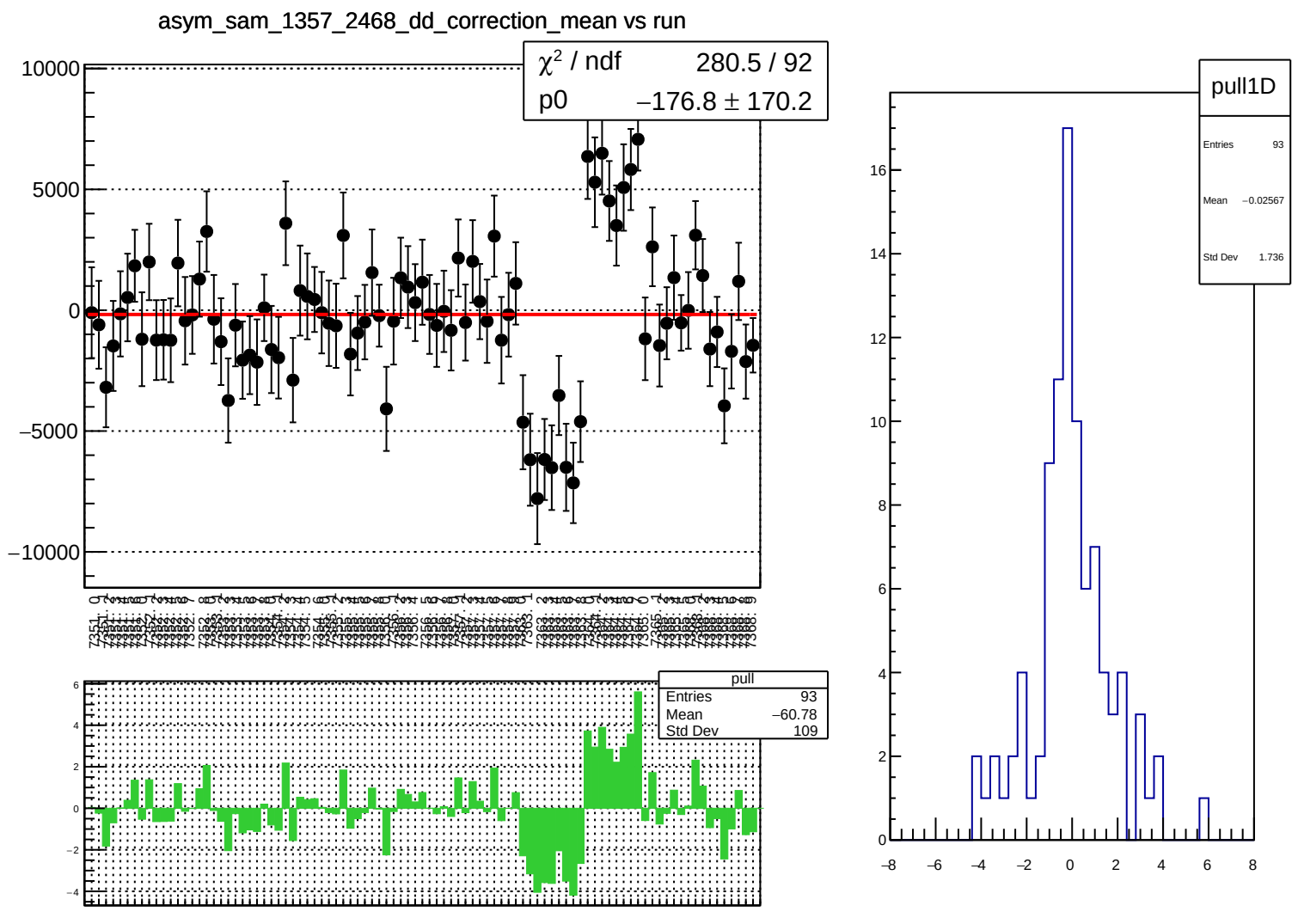

pull1D
Entries 93
Mean −0.02745
Std Dev 1.782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

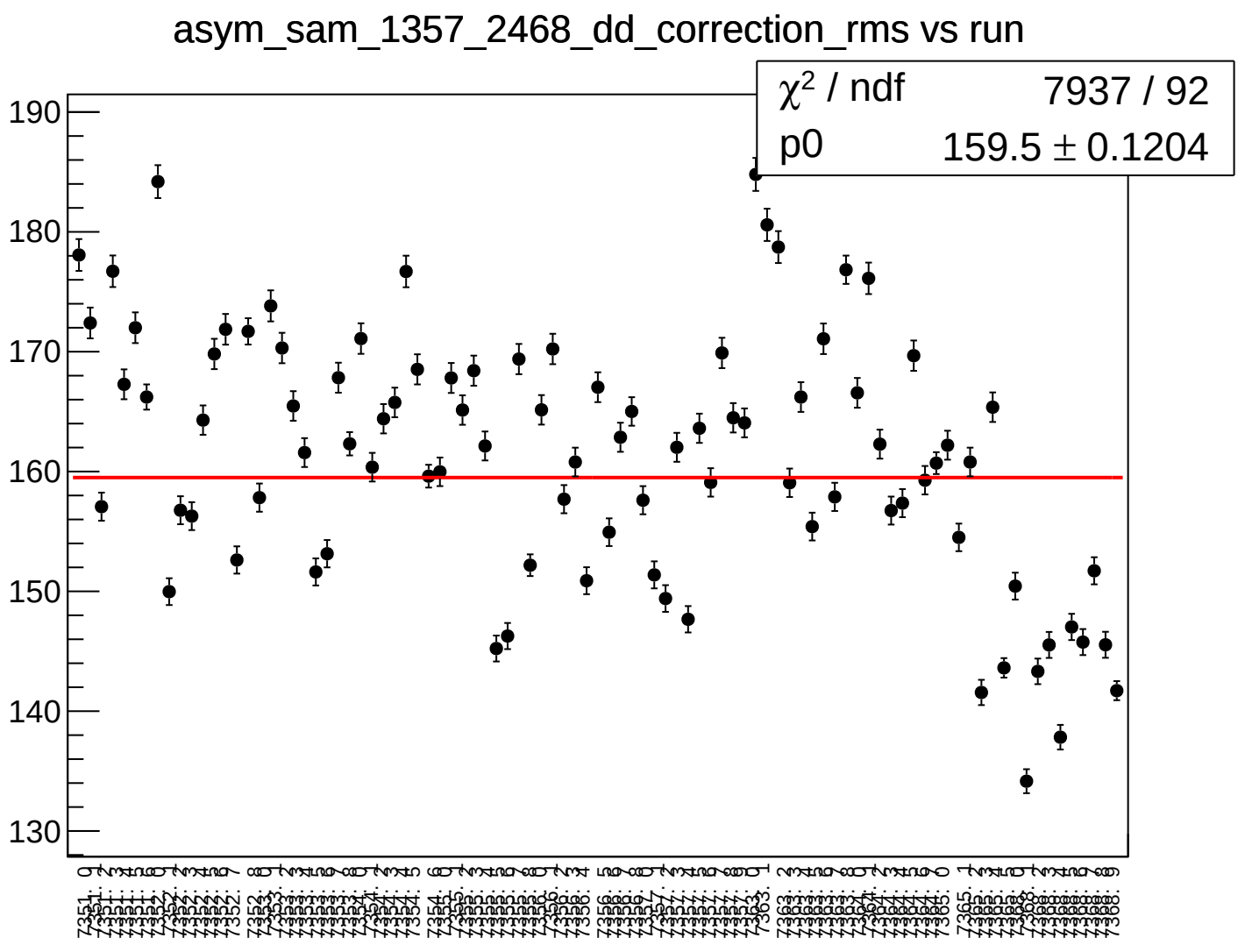

asym_sam_2468_avg_rms vs run
χ² / ndf 7977 / 92
p0 675.9 ± 0.5101
800
750
700
650
600
550

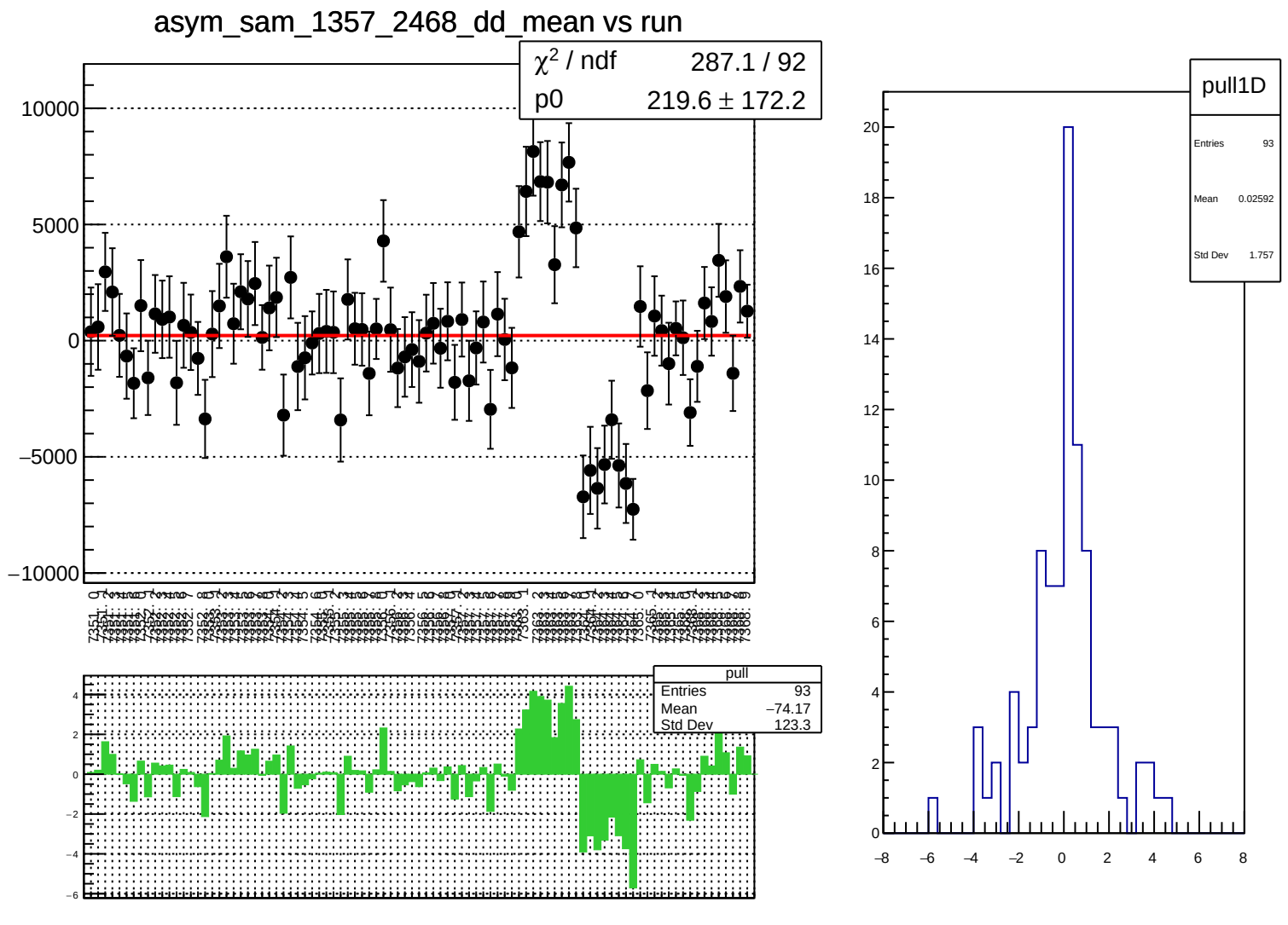

reg_asym_sam_1357_2468_dd_mean vs run
χ² / ndf 107.5 / 92
p0 44.95 ± 25.41
1000
500
0
−500
−1000
pull
Entries 93
Mean 2069
Std Dev 2015
2
1
0
−1
−2
−3

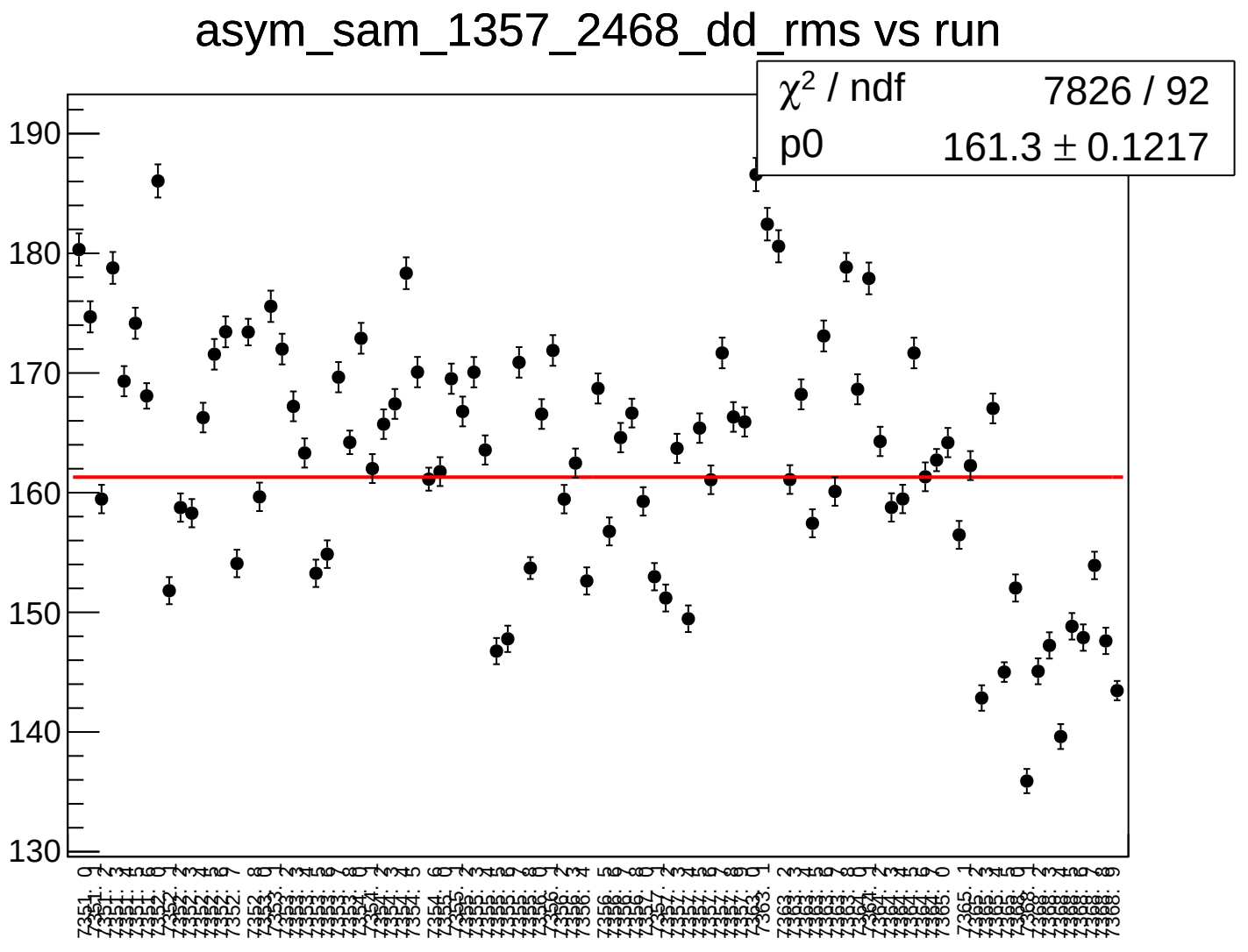

pull1D
Entries 93
Mean −0.001468
Std Dev 1.075
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

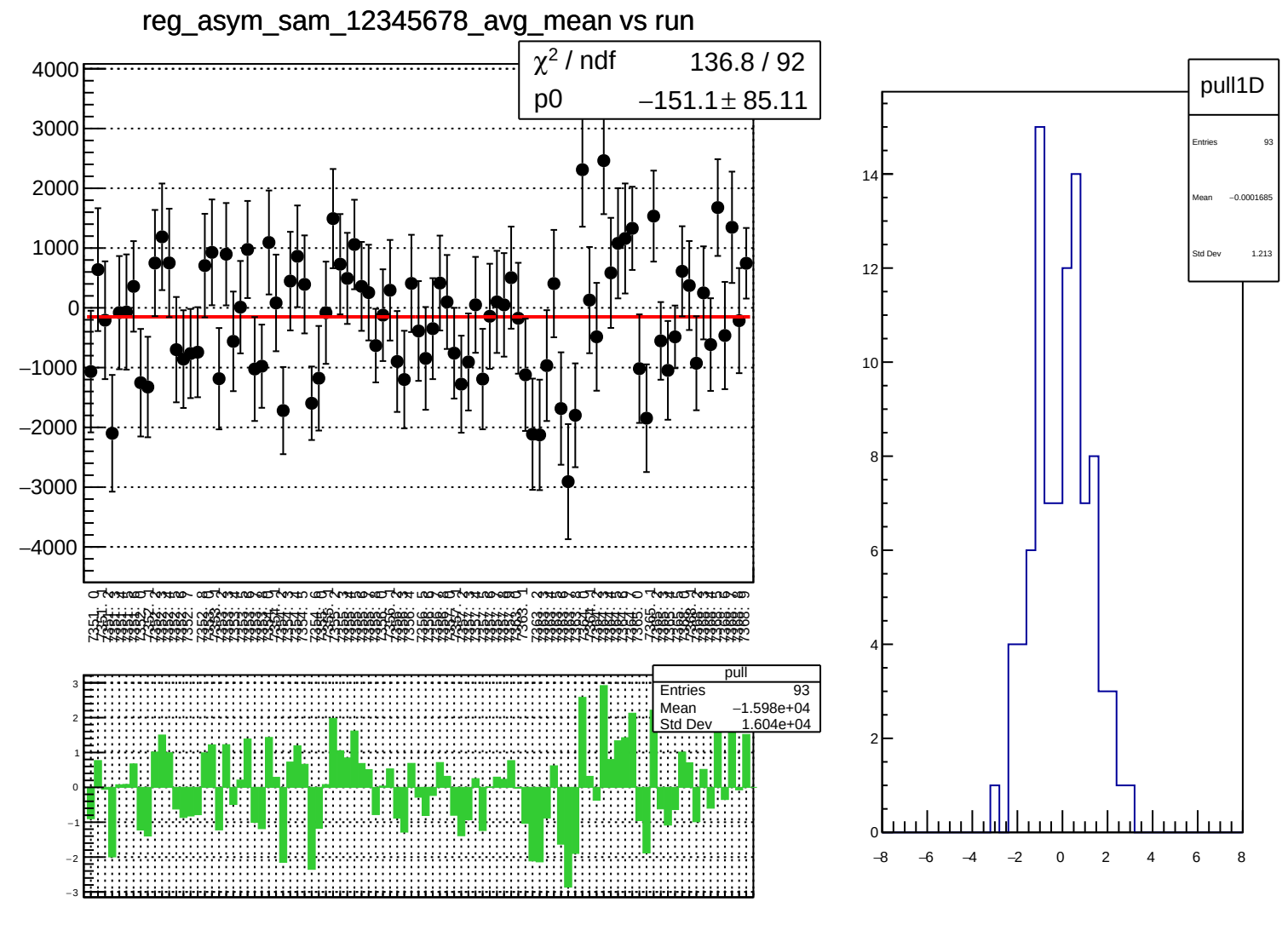

reg_asym_sam_1357_2468_dd_rms vs run
χ² / ndf 1.05e+04 / 92
p0 23.79 ± 0.01797
28
26
24
22
20
18

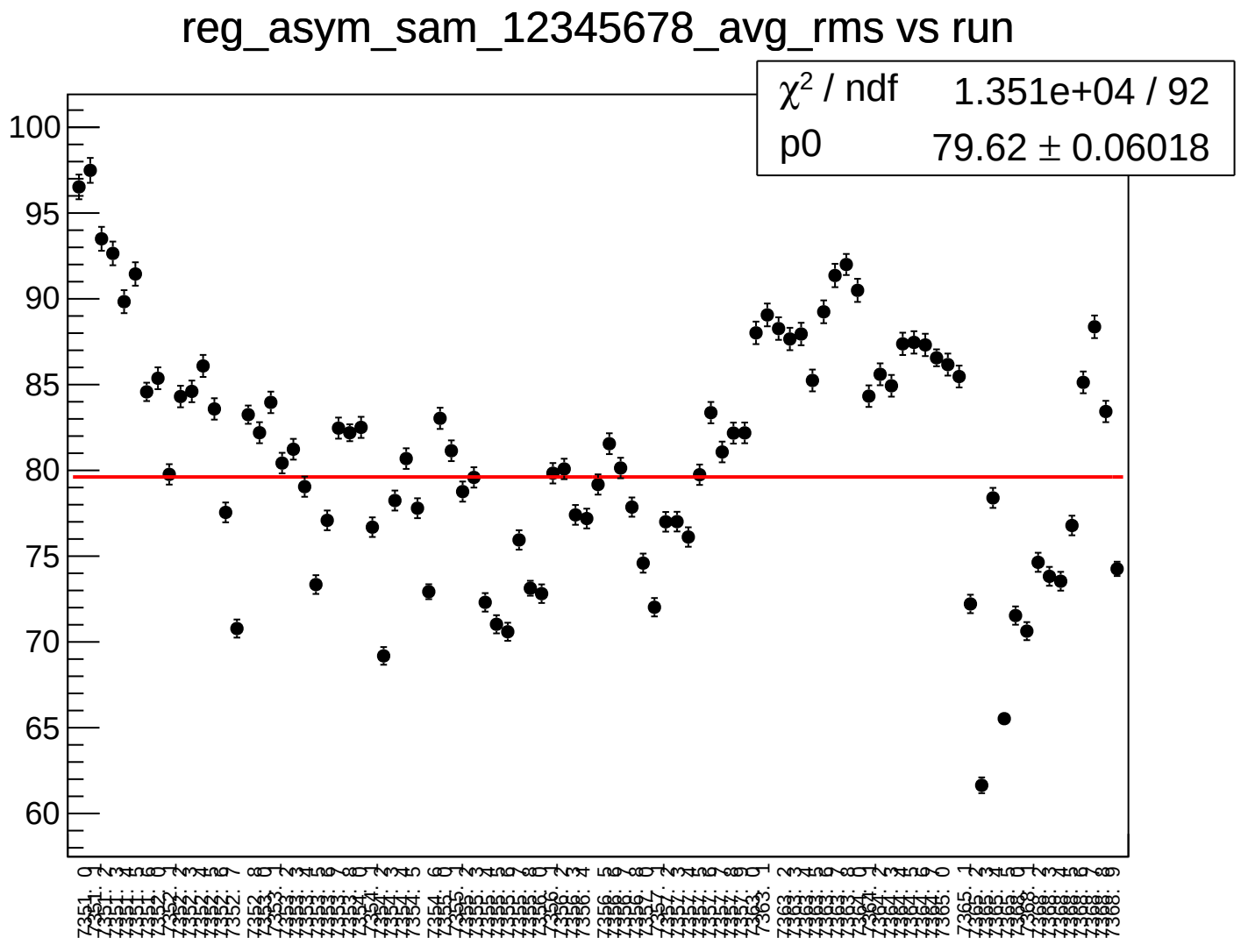

asym_sam_1357_2468_dd_correction_mean vs run
χ² / ndf 280.5 / 92
p0 −176.8 ± 170.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −60.78
Std Dev 109
6
4
2
0
−2
−4
pull1D
Entries 93
Mean −0.02567
Std Dev 1.736
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

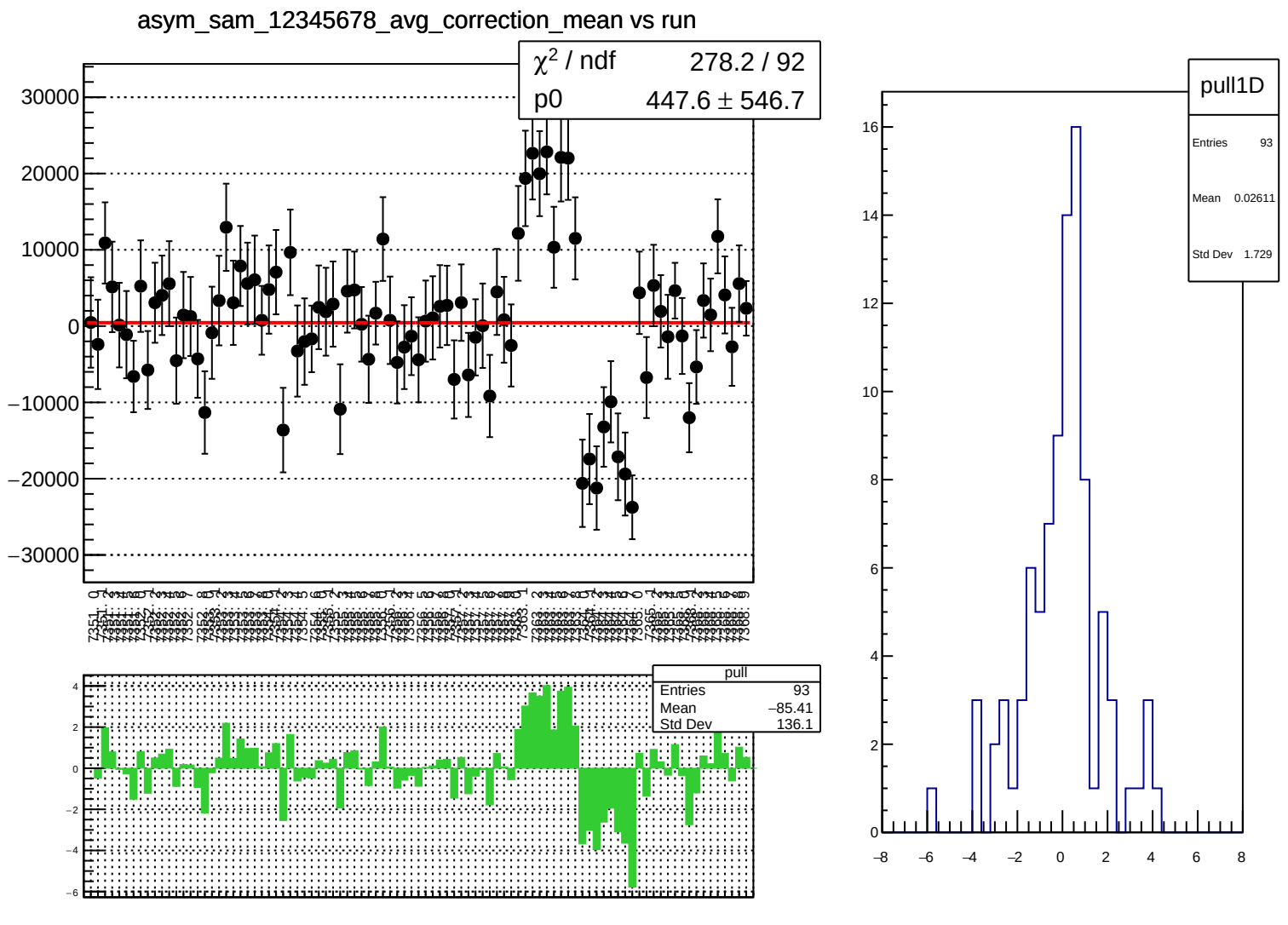

asym_sam_1357_2468_dd_correction_rms vs run
χ² / ndf 7937 / 92
p0 159.5 ± 0.1204
190
180
170
160
150
140
130

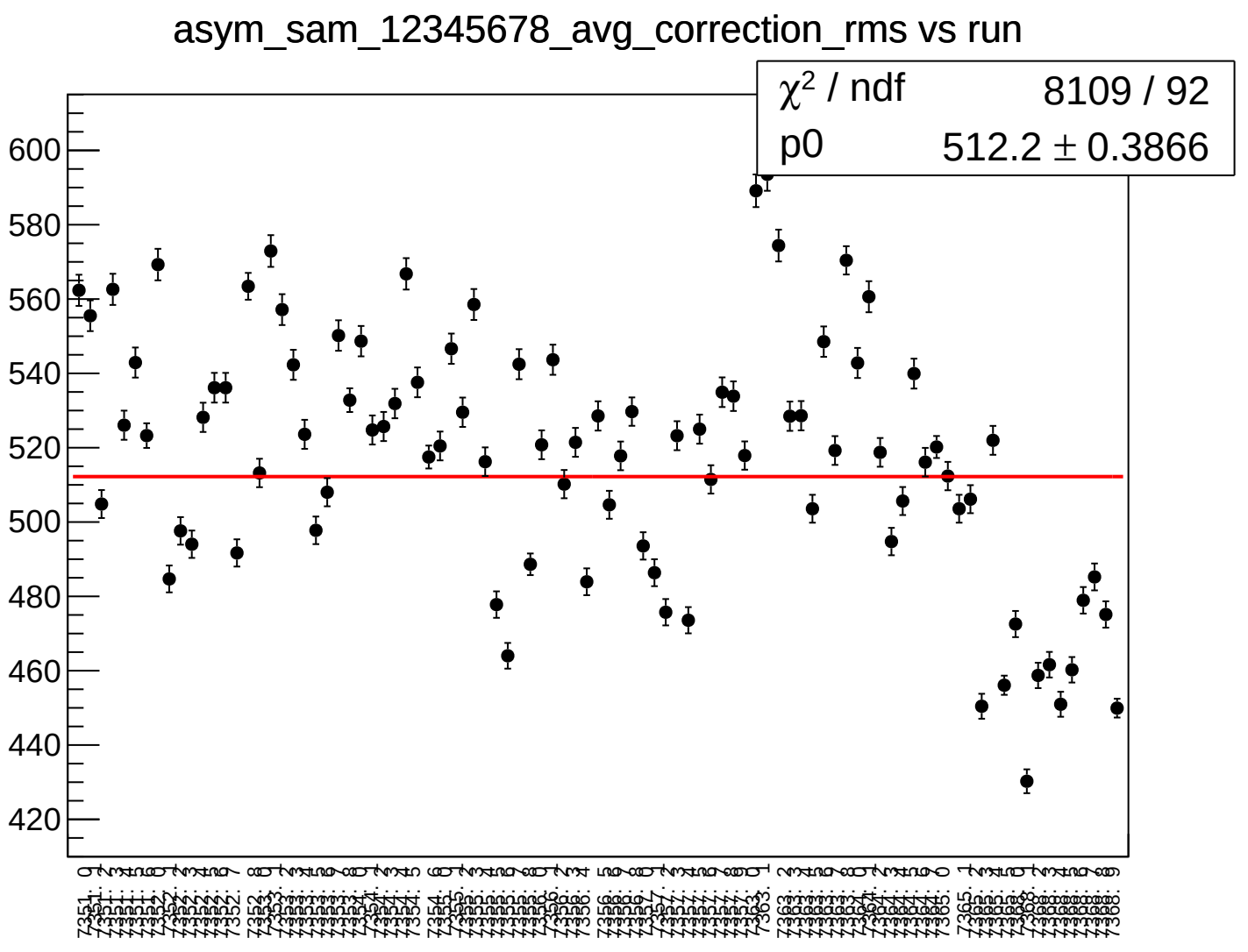

asym_sam_1357_2468_dd_mean vs run
χ² / ndf 287.1 / 92
p0 219.6 ± 172.2
10000
5000
0
−5000
−10000
pull
Entries 93
Mean −74.17
Std Dev 123.3
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean 0.02592
Std Dev 1.757
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

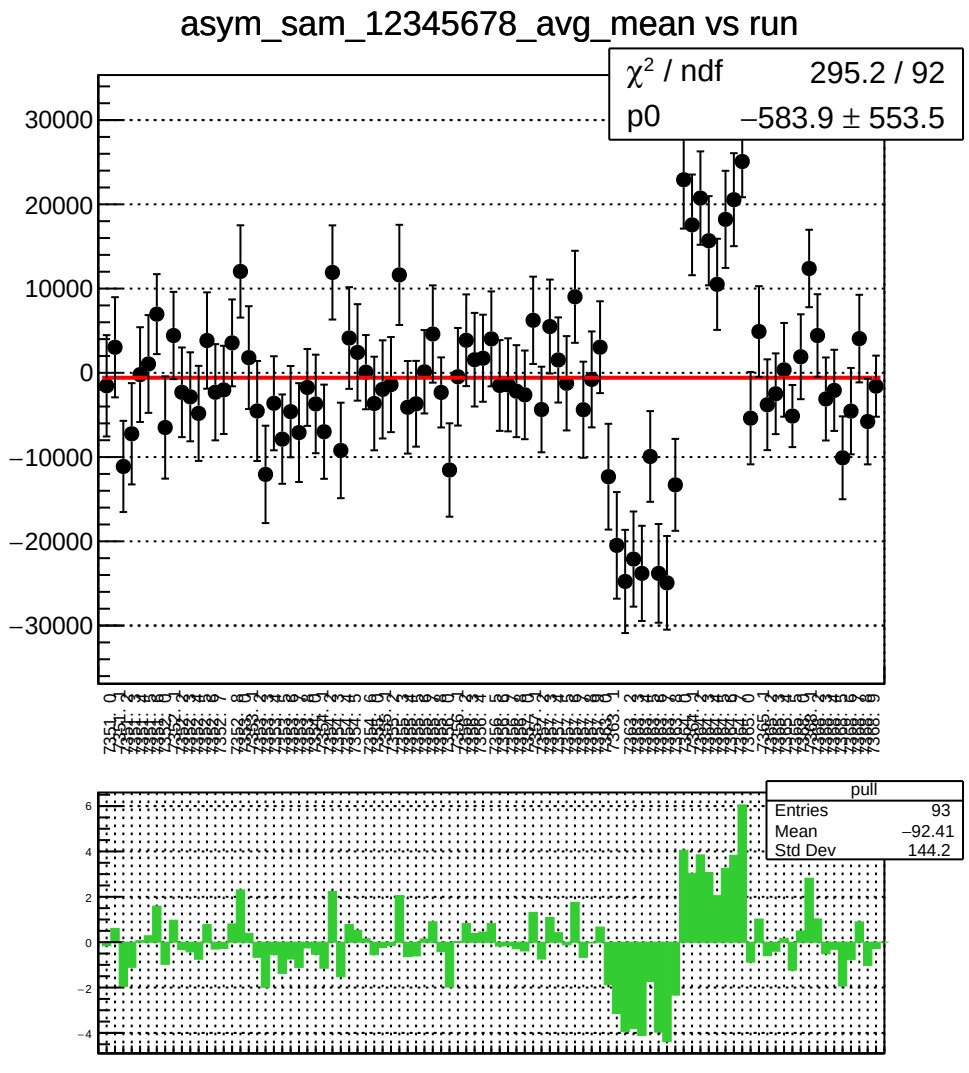

asym_sam_1357_2468_dd_rms vs run
χ² / ndf 7826 / 92
p0 161.3 ± 0.1217
190
180
170
160
150
140
130

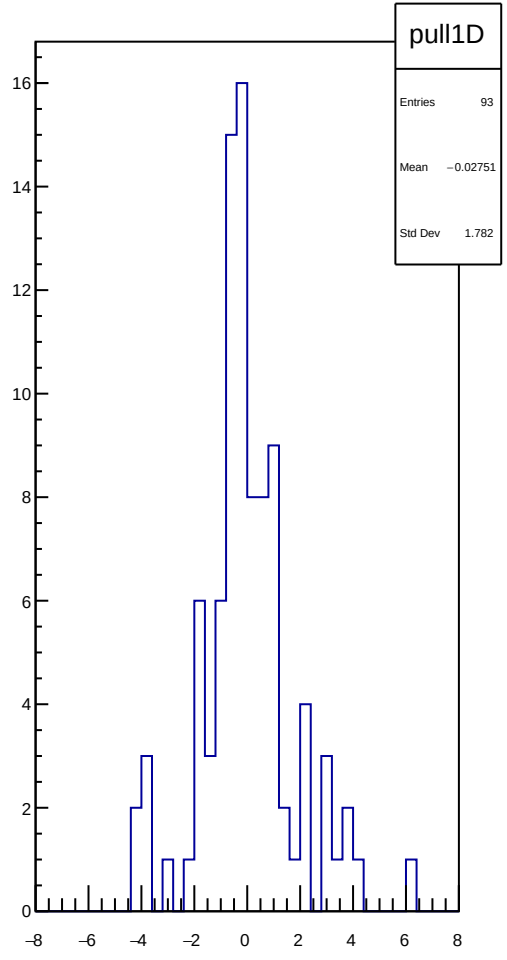

reg_asym_sam_12345678_avg_mean vs run
χ² / ndf 136.8 / 92
p0 −151.1 ± 85.11
pull
Entries 93
Mean −1.598e+04
Std Dev 1.604e+04
pull1D
Entries 93
Mean −0.0001685
Std Dev 1.213

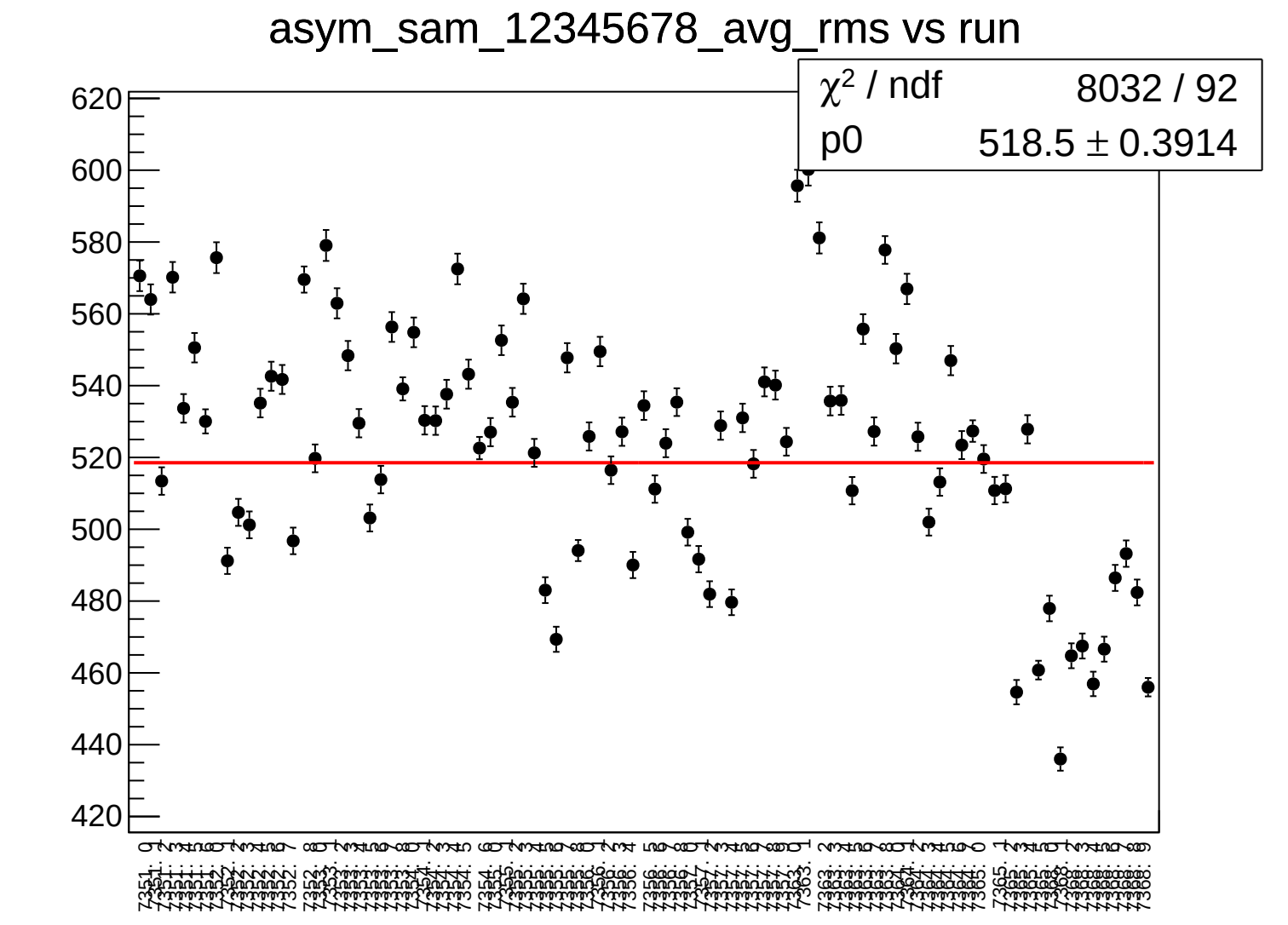

reg_asym_sam_12345678_avg_rms vs run
χ^2 / ndf 1.351e+04 / 92
p0 79.62 ± 0.06018
100
95
90
85
80
75
70
65
60

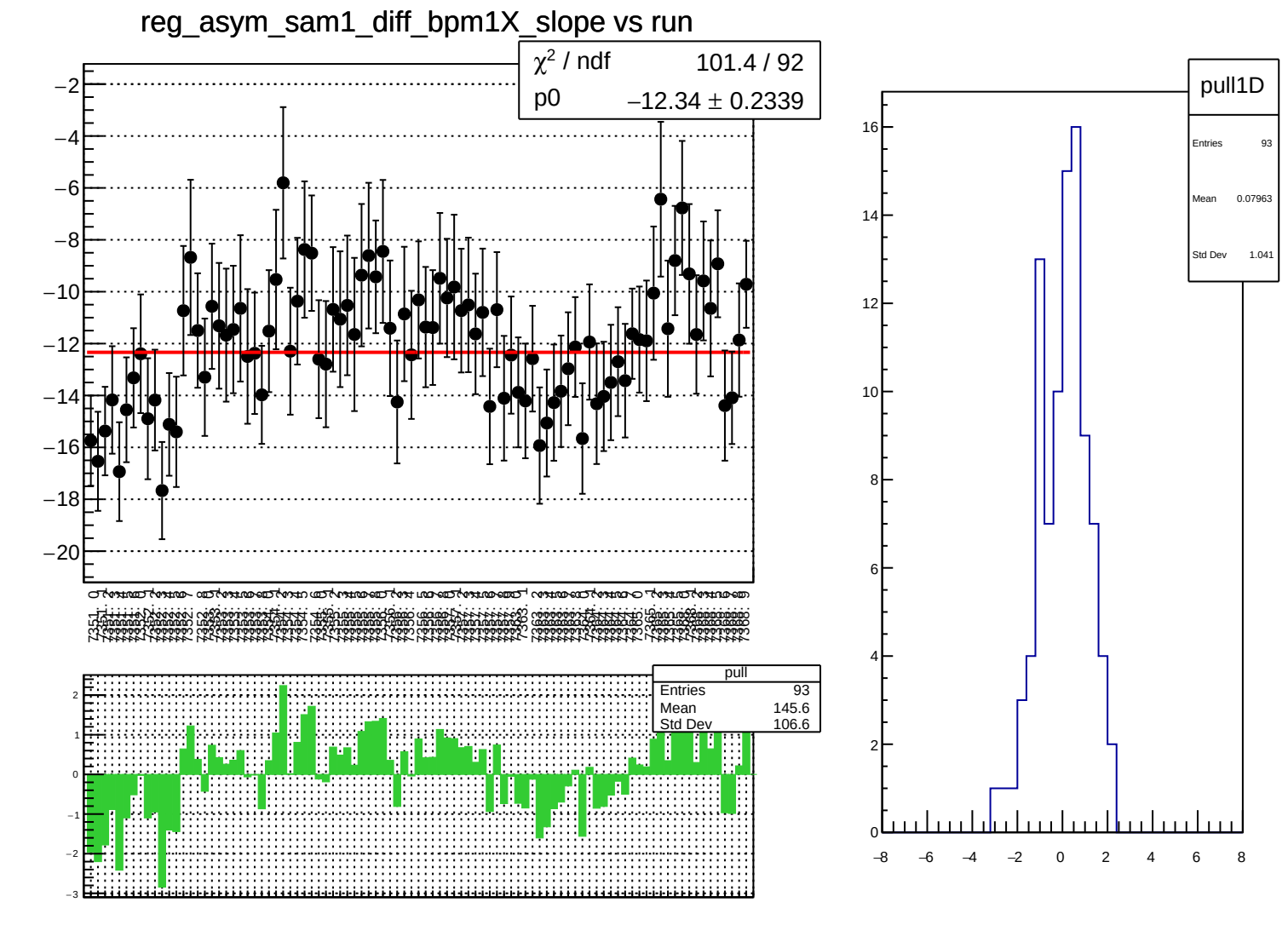

asym_sam_12345678_avg_correction_mean vs run
χ² / ndf 278.2 / 92
p0 447.6 ± 546.7
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −85.41
Std Dev 136.1
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean 0.02611
Std Dev 1.729
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

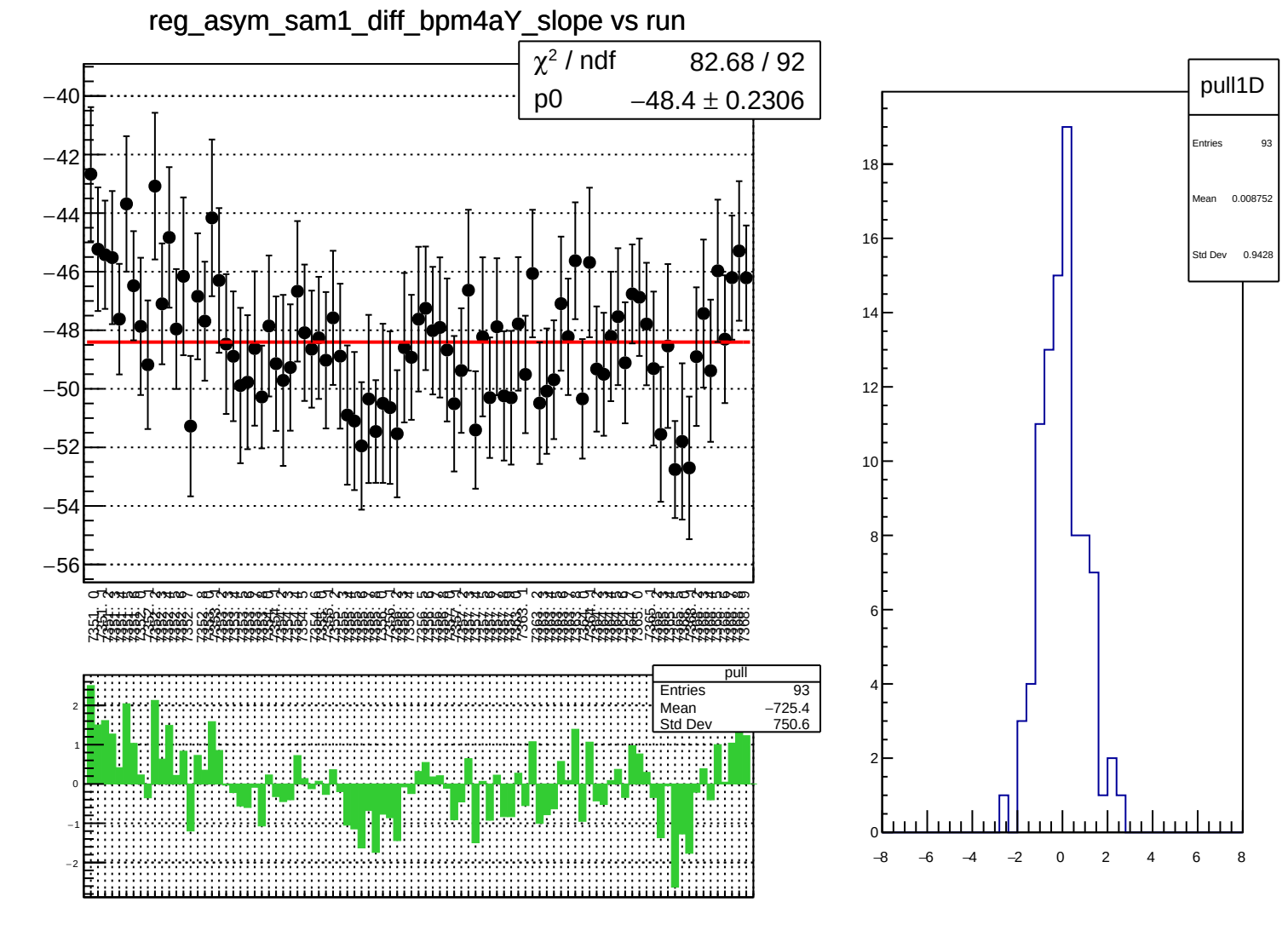

asym_sam_12345678_avg_correction_rms vs run
χ^2 / ndf 8109 / 92
p0 512.2 ± 0.3866
600
580
560
540
520
500
480
460
440
420

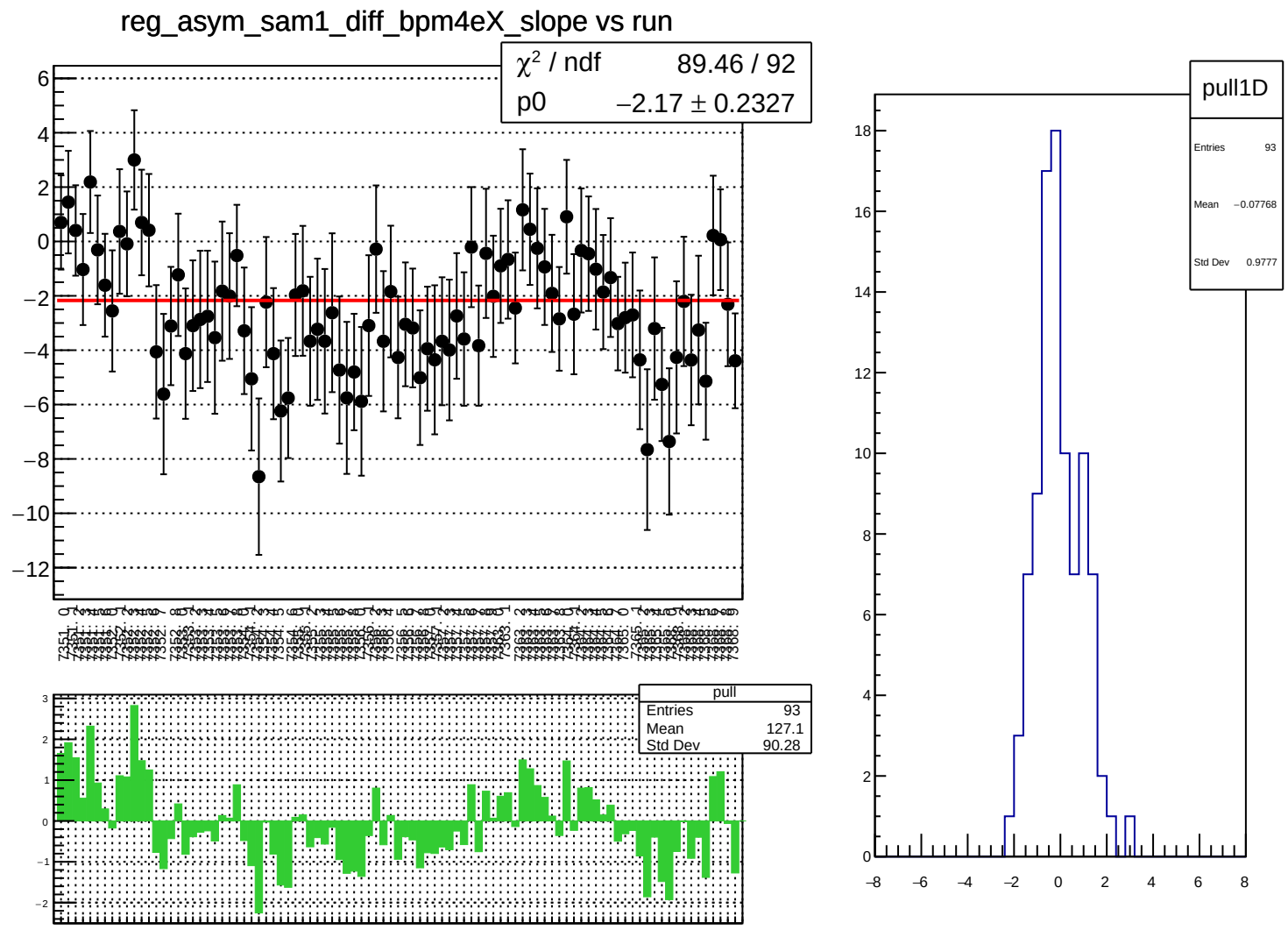

asym_sam_12345678_avg_mean vs run
χ² / ndf 295.2 / 92
p0 −583.9 ± 553.5
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 93
Mean −92.41
Std Dev 144.2
6
4
2
0
−2
−4

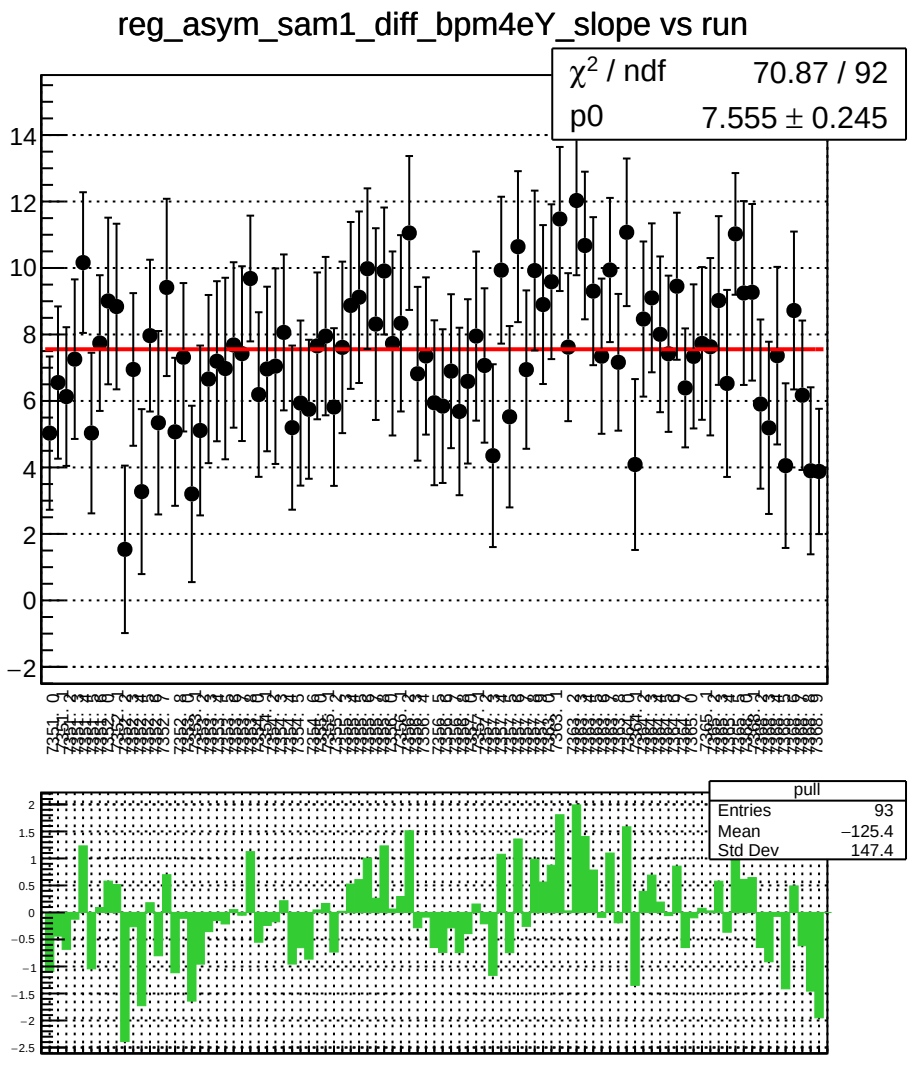

pull1D
Entries 93
Mean −0.02751
Std Dev 1.782
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

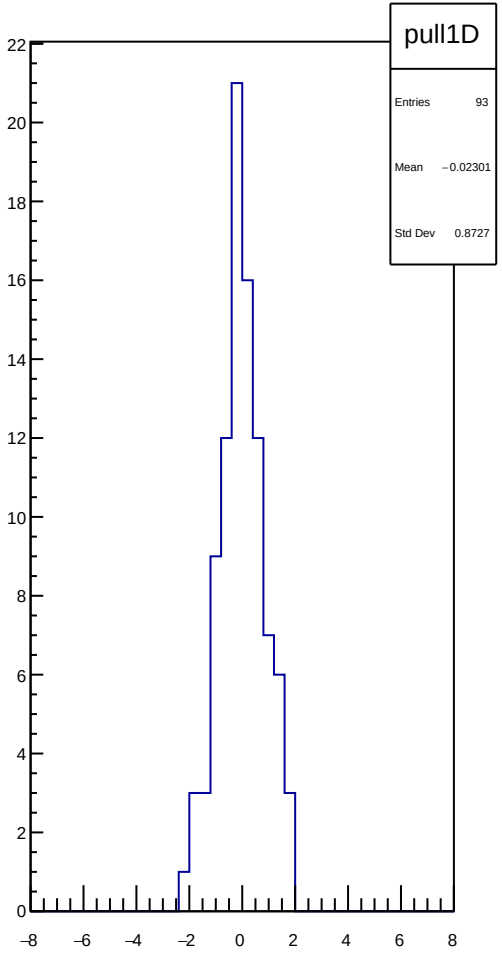

asym_sam_12345678_avg_rms vs run
χ² / ndf 8032 / 92
p0 518.5 ± 0.3914
620
600
580
560
540
520
500
480
460
440
420

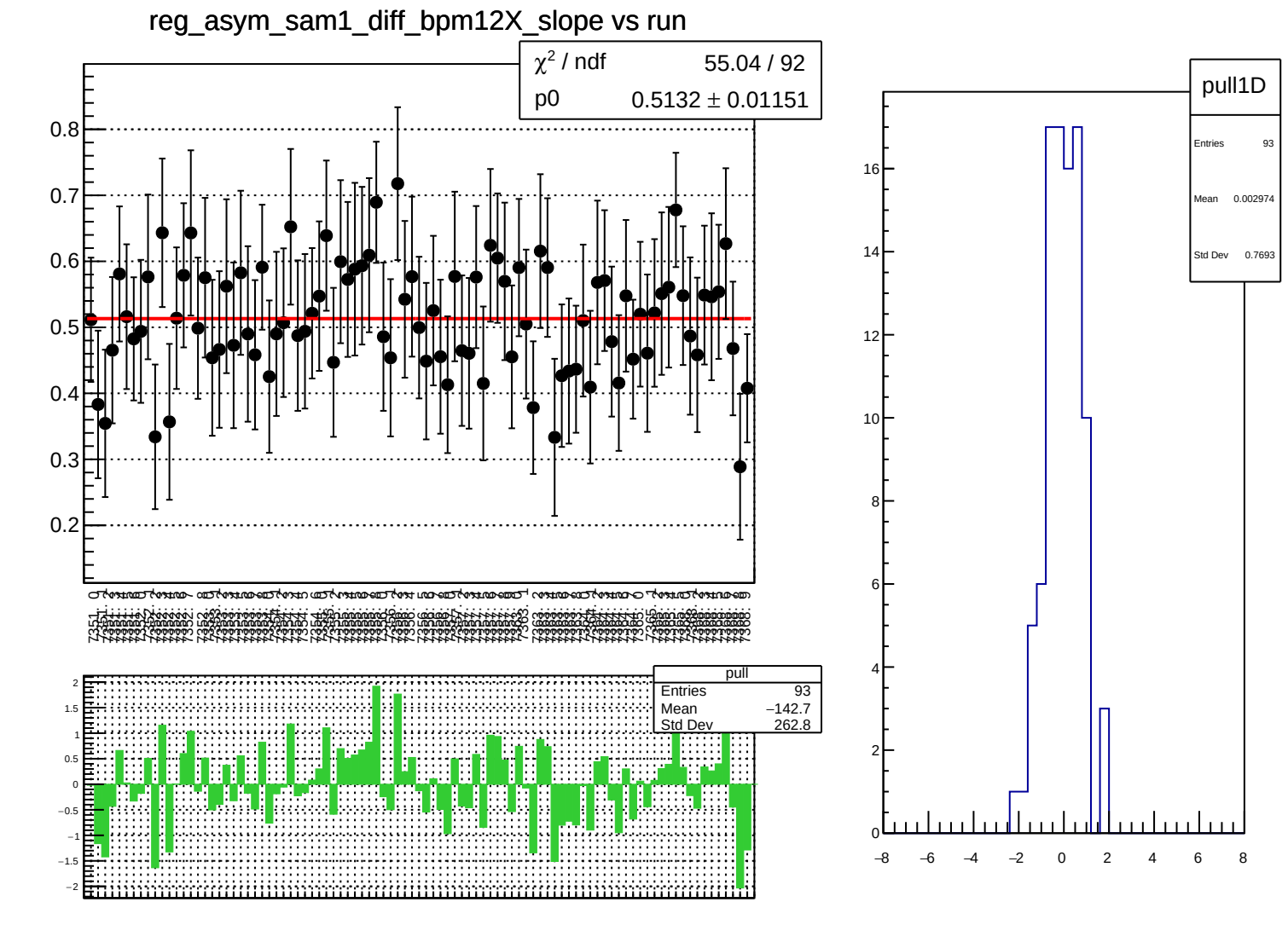

reg_asym_sam1_diff_bpm1X_slope vs run
χ² / ndf 101.4 / 92
p0 −12.34 ± 0.2339
pull
Entries 93
Mean 145.6
Std Dev 106.6
pull1D
Entries 93
Mean 0.07963
Std Dev 1.041

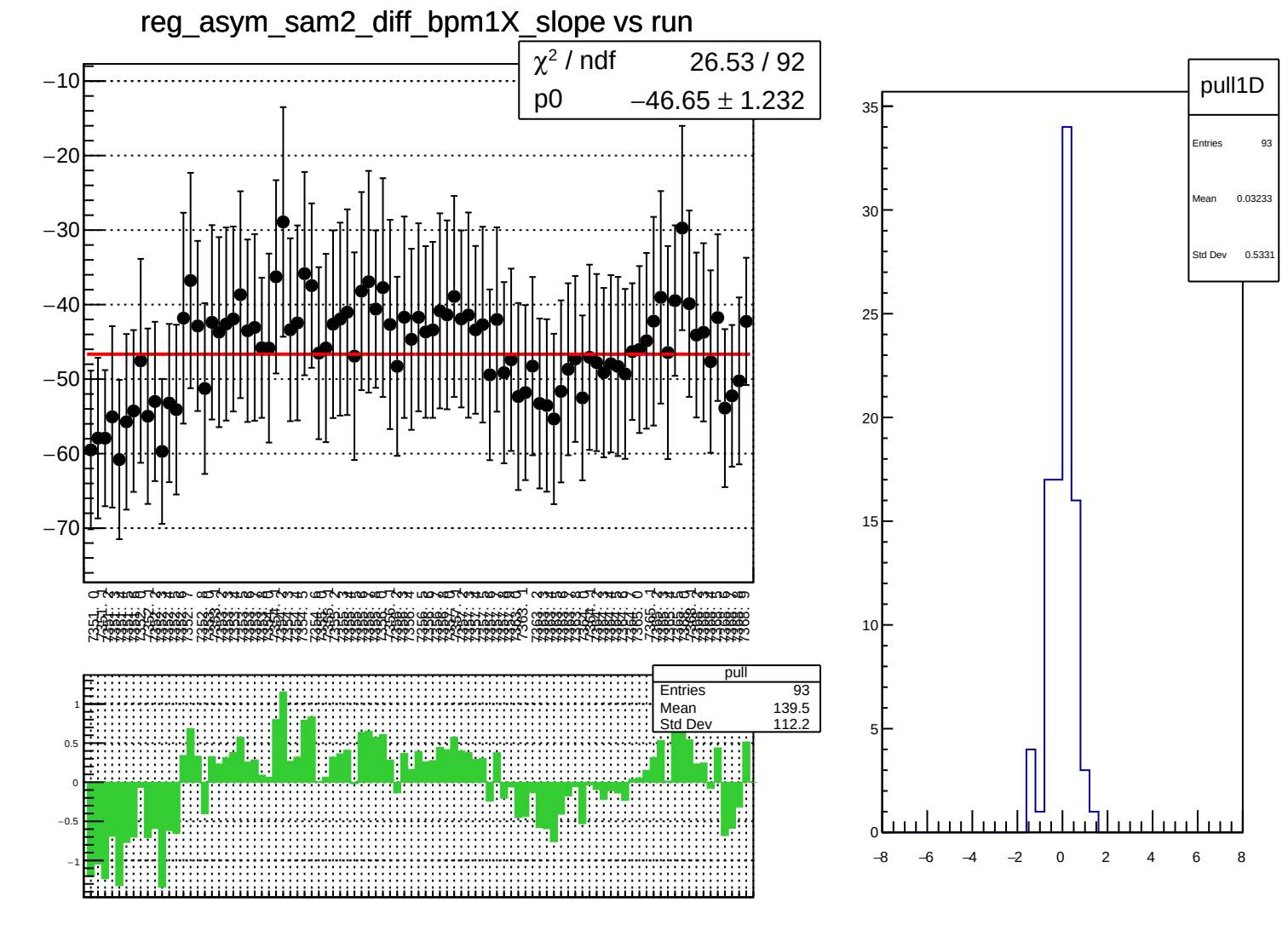

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 82.68 / 92
p0 −48.4 ± 0.2306
pull
Entries 93
Mean −725.4
Std Dev 750.6
pull1D
Entries 93
Mean 0.008752
Std Dev 0.9428

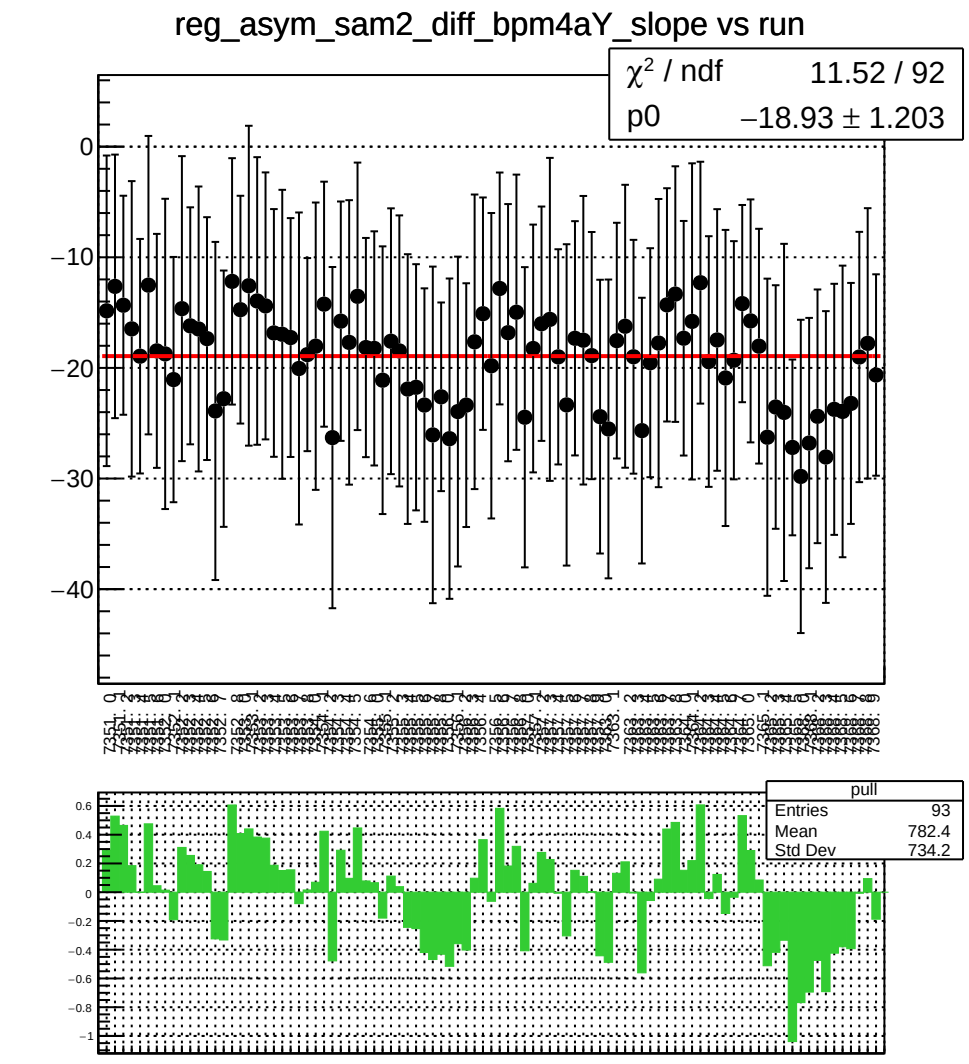

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 89.46 / 92
p0 −2.17 ± 0.2327
pull
Entries 93
Mean 127.1
Std Dev 90.28
pull1D
Entries 93
Mean −0.07768
Std Dev 0.9777

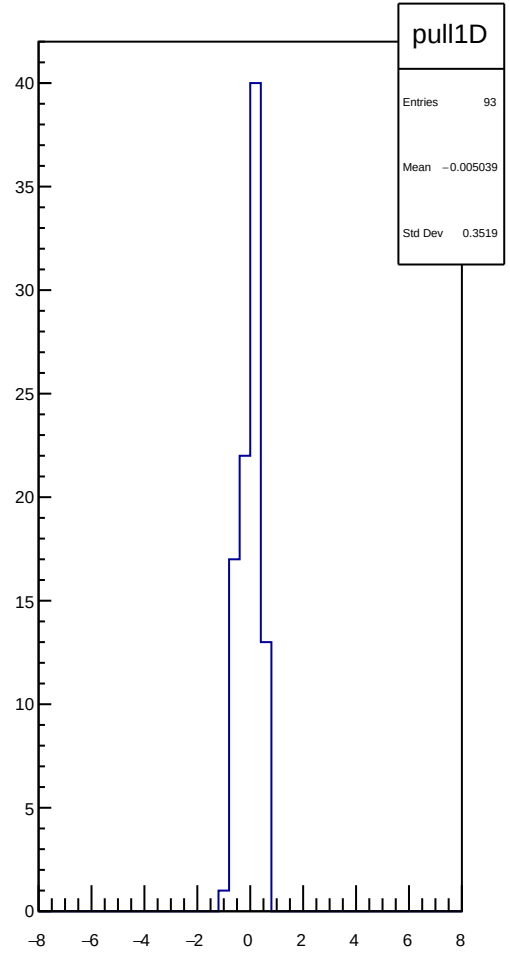

reg_asym_sam1_diff_bpm4eY_slope vs run
χ^2 / ndf 70.87 / 92
p0 7.555 ± 0.245
pull
Entries 93
Mean −125.4
Std Dev 147.4

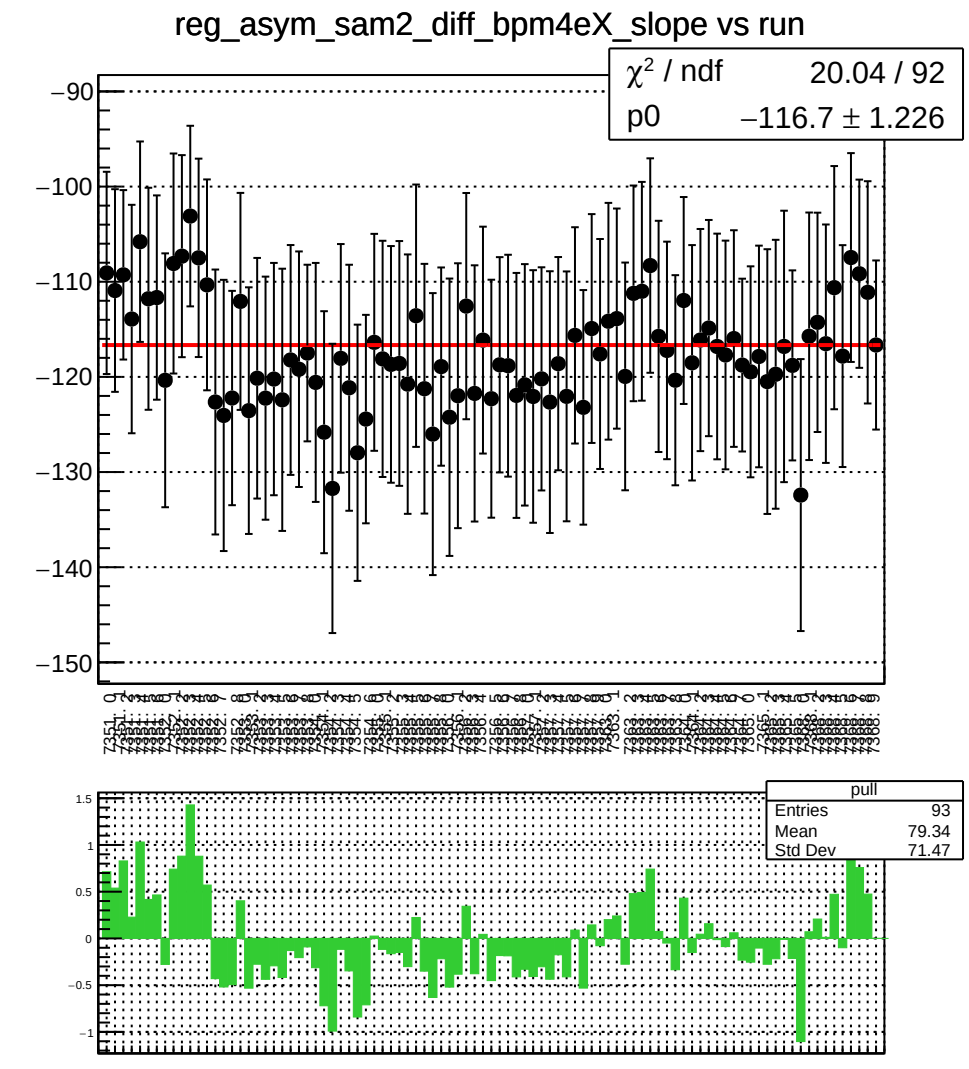

pull1D
Entries 93
Mean −0.02301
Std Dev 0.8727

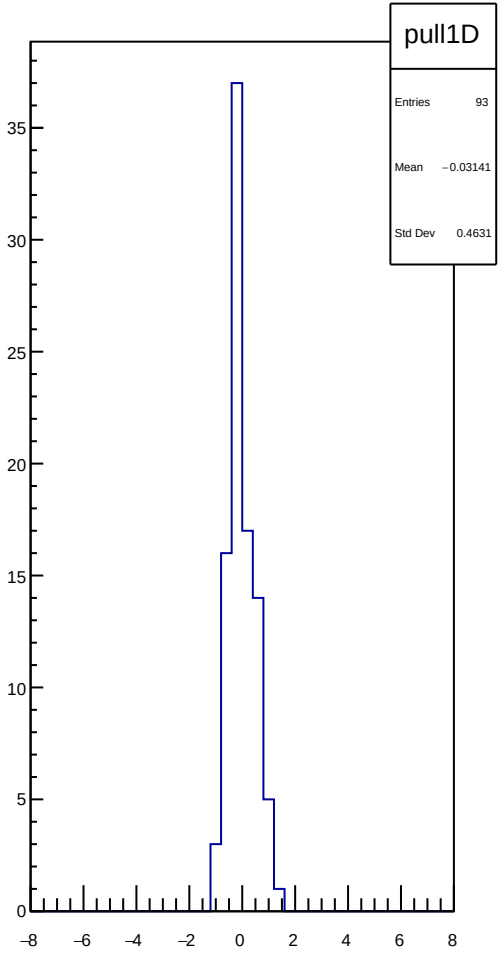

reg_asym_sam1_diff_bpm12X_slope vs run
χ² / ndf 55.04 / 92
p0 0.5132 ± 0.01151
pull
Entries 93
Mean −142.7
Std Dev 262.8
pull1D
Entries 93
Mean 0.002974
Std Dev 0.7693

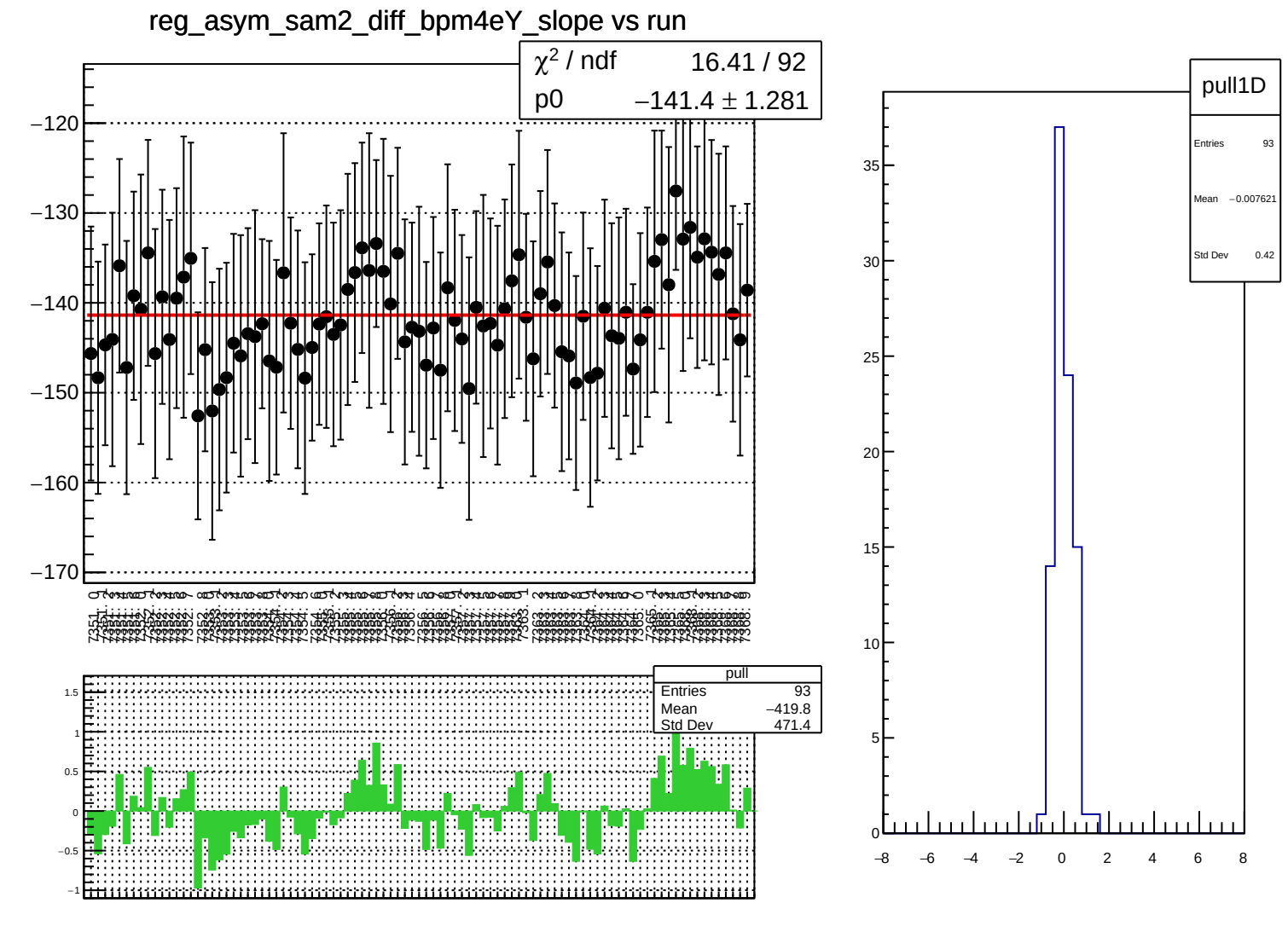

reg_asym_sam2_diff_bpm1X_slope vs run
χ² / ndf 26.53 / 92
p0 −46.65 ± 1.232
pull
Entries 93
Mean 139.5
Std Dev 112.2
pull1D
Entries 93
Mean 0.03233
Std Dev 0.5331

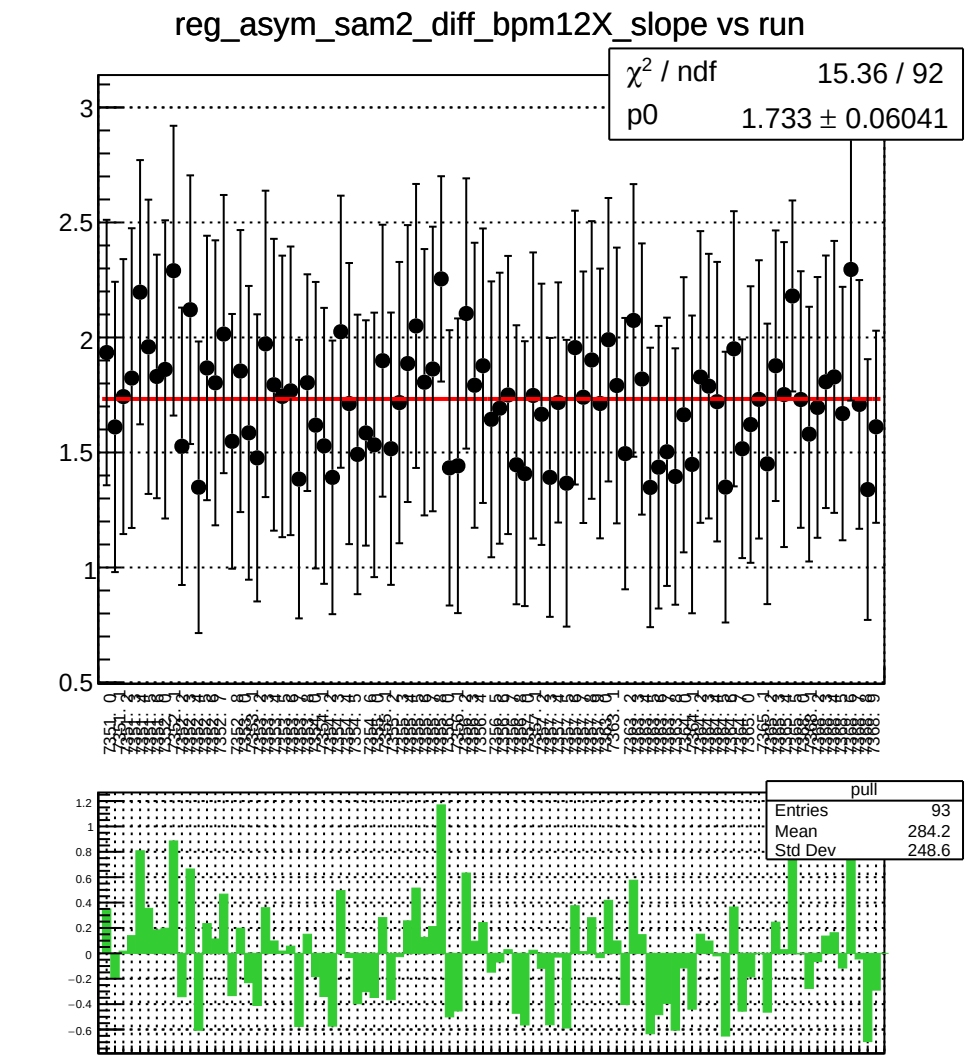

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 11.52 / 92
p0 −18.93 ± 1.203
pull
Entries 93
Mean 782.4
Std Dev 734.2

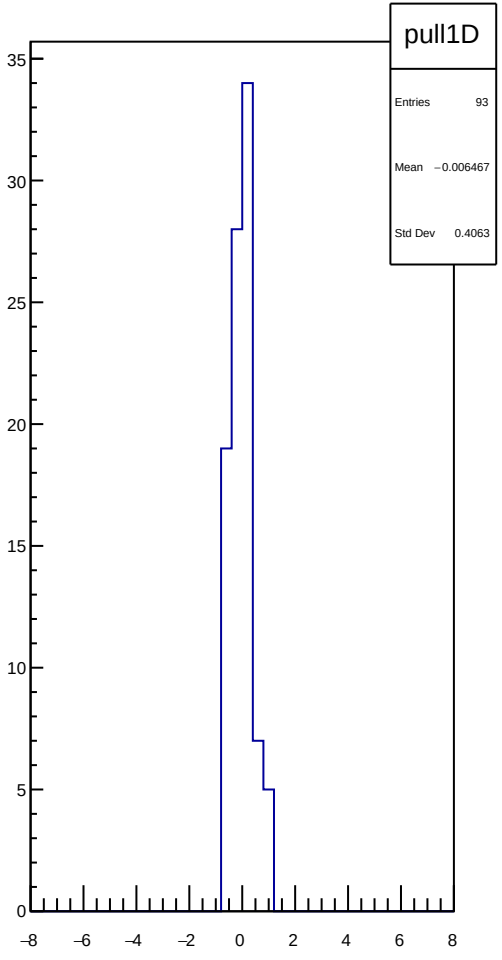

pull1D
Entries 93
Mean −0.005039
Std Dev 0.3519

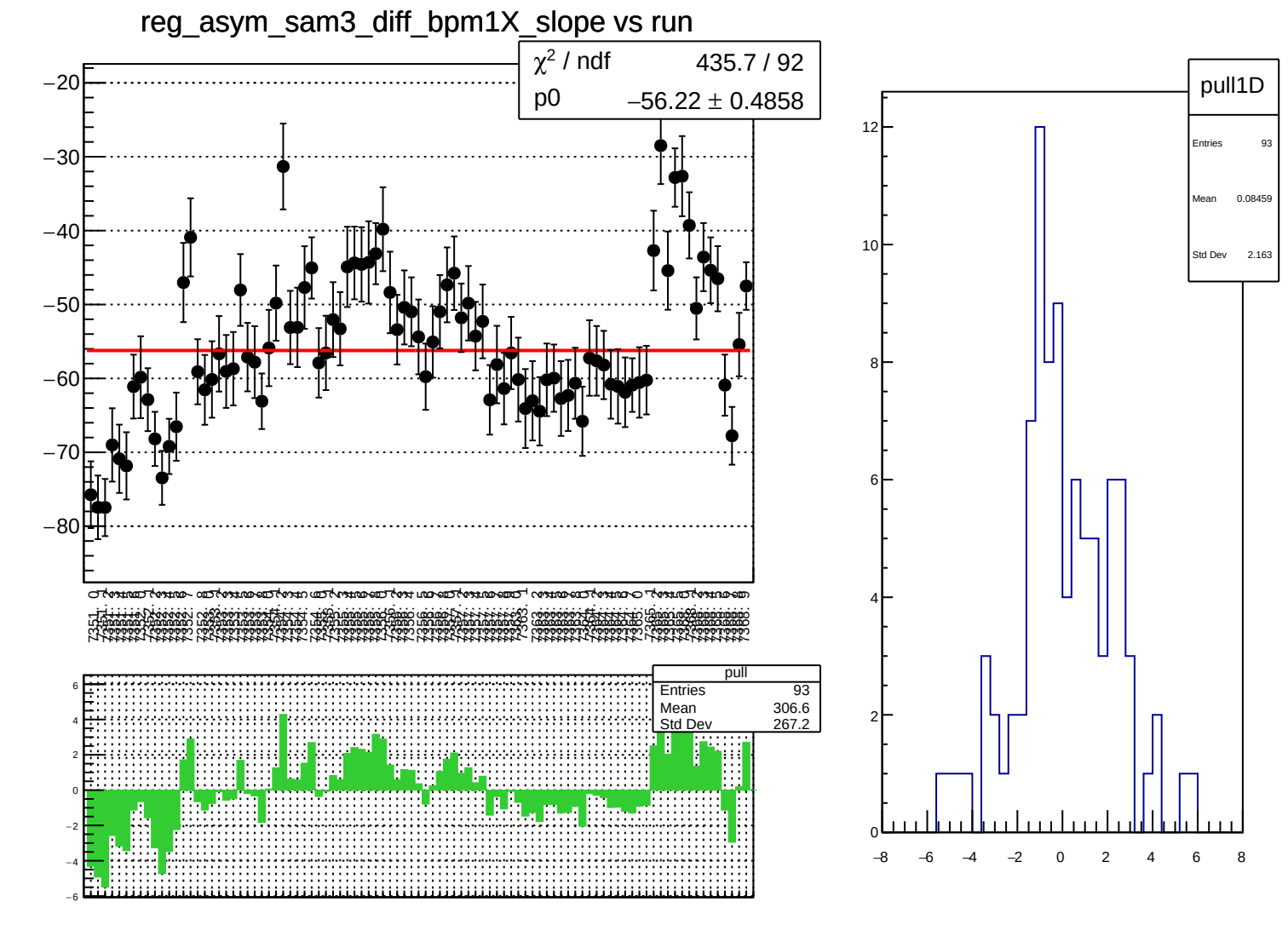

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 20.04 / 92
p0 −116.7 ± 1.226
pull
Entries 93
Mean 79.34
Std Dev 71.47

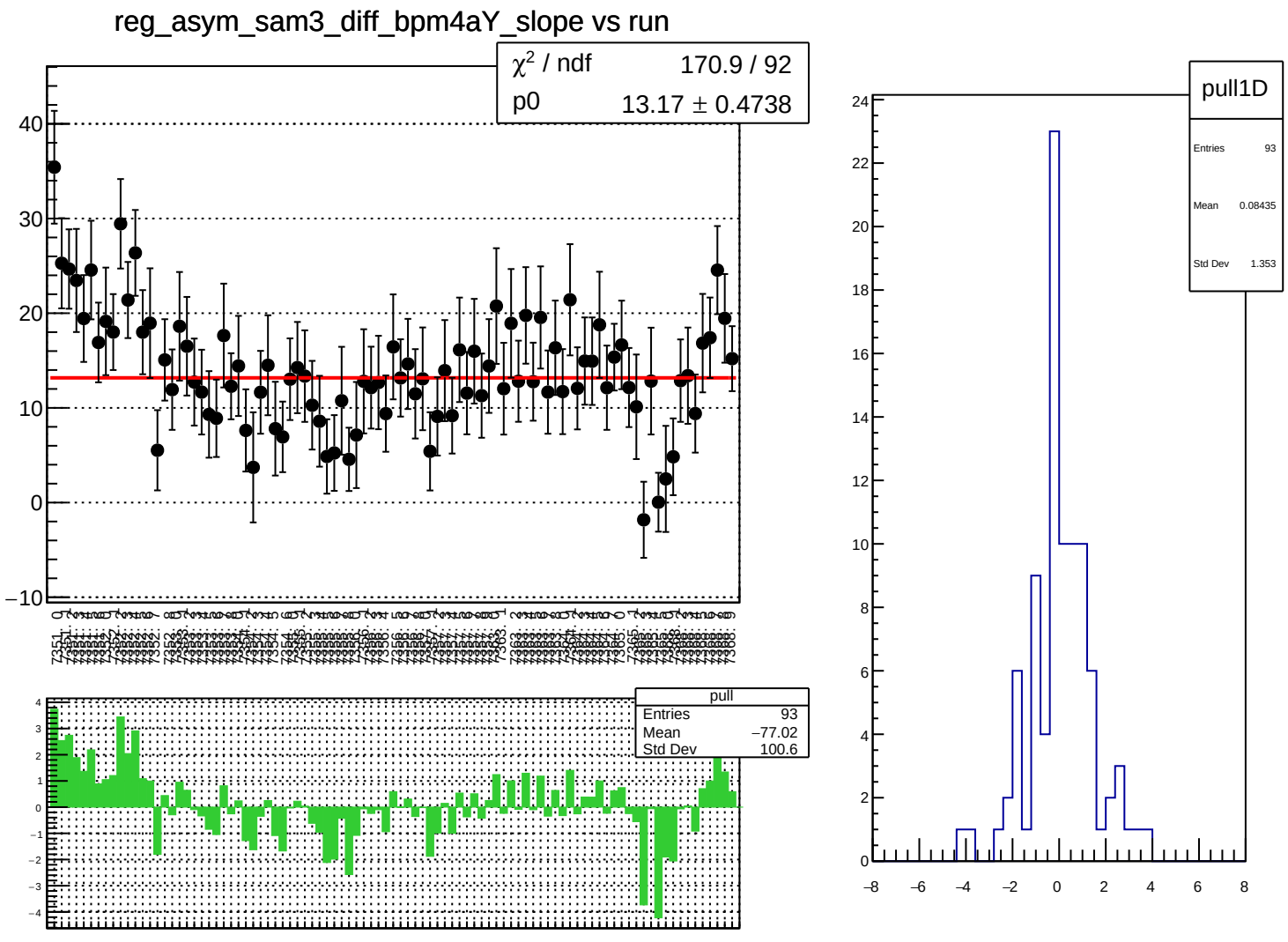

pull1D
Entries 93
Mean −0.03141
Std Dev 0.4631

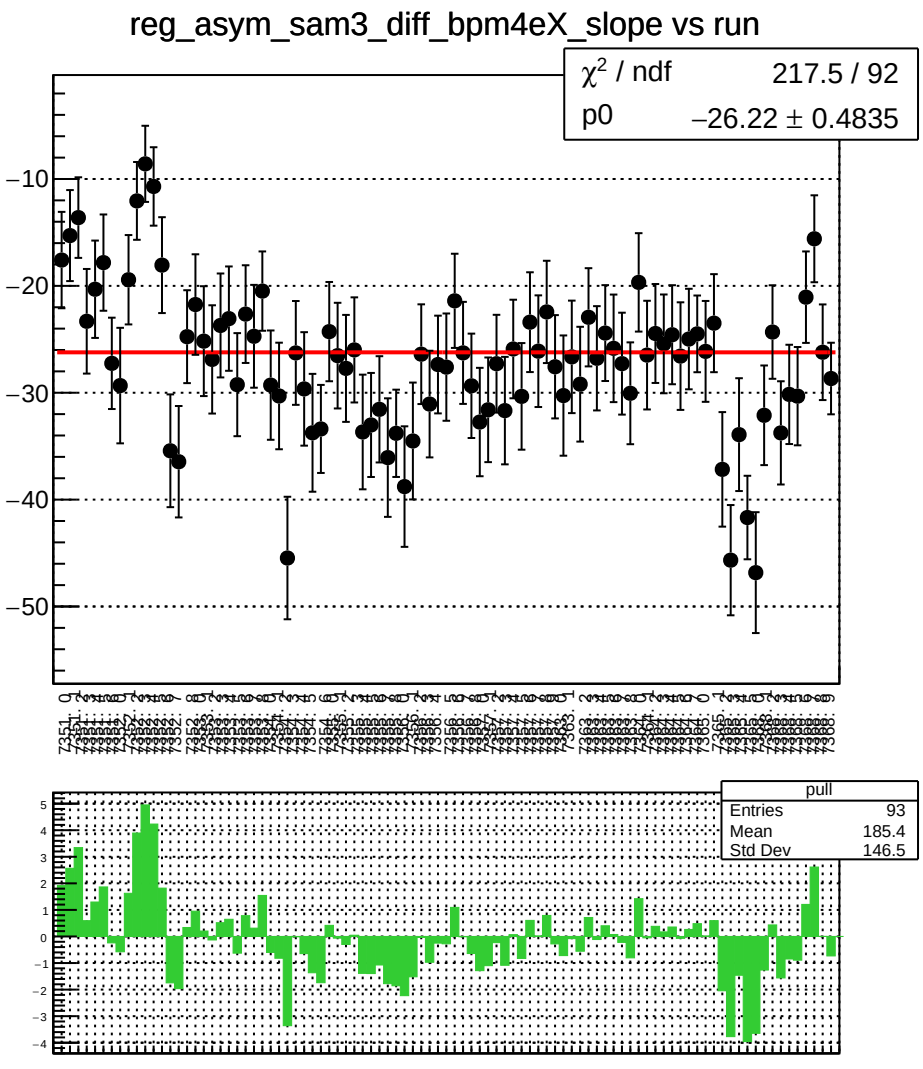

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 16.41 / 92
p0 −141.4 ± 1.281
−120
−130
−140
−150
−160
−170
pull
Entries 93
Mean −419.8
Std Dev 471.4
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.007621
Std Dev 0.42
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

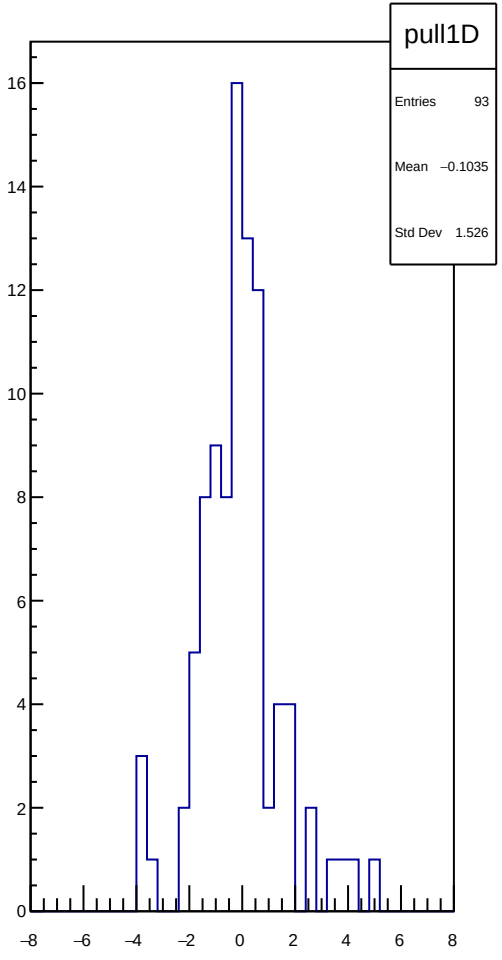

reg_asym_sam2_diff_bpm12X_slope vs run
χ² / ndf 15.36 / 92
p0 1.733 ± 0.06041
pull
Entries 93
Mean 284.2
Std Dev 248.6

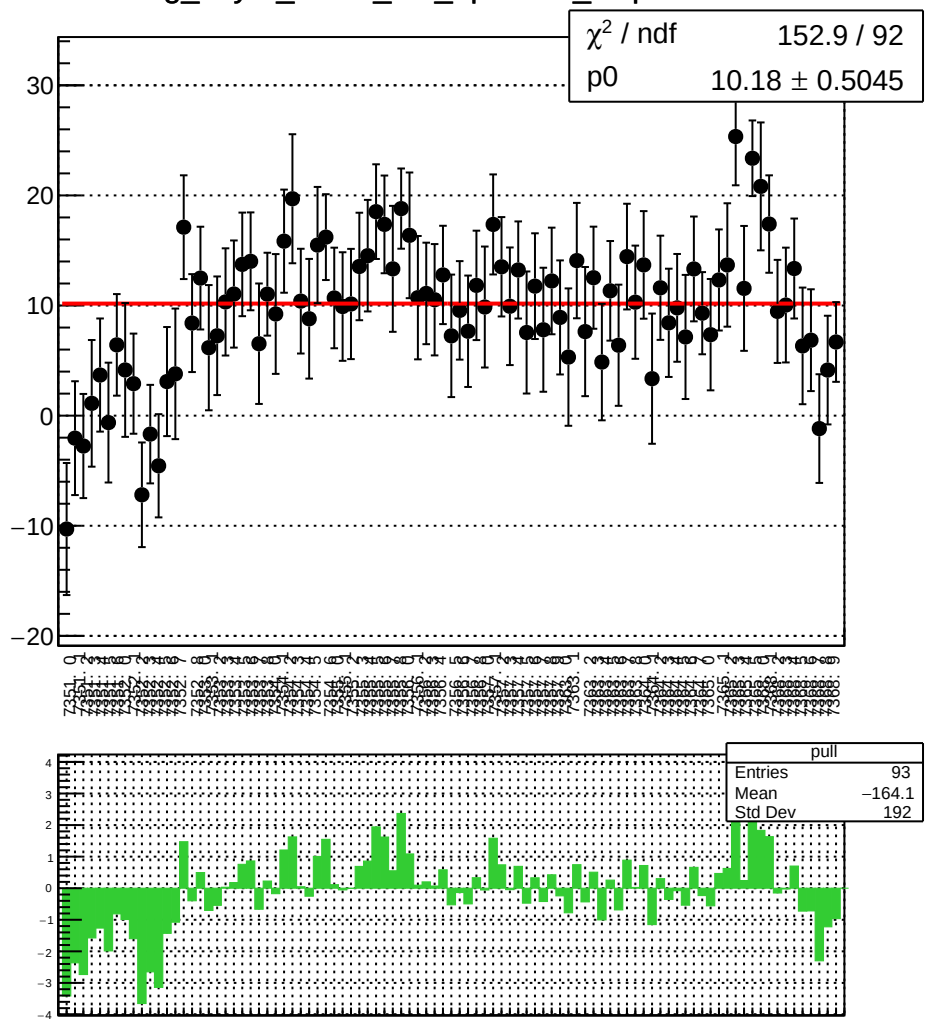

pull1D
Entries 93
Mean −0.006467
Std Dev 0.4063

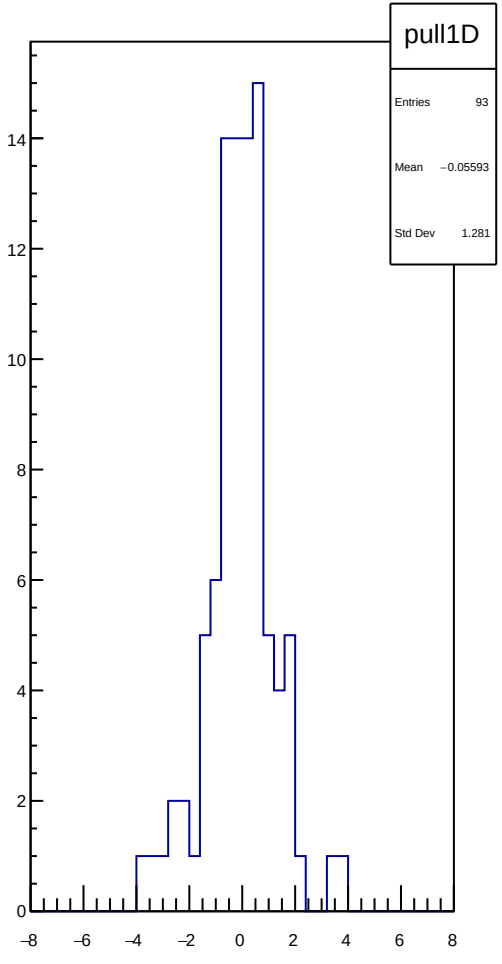

reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 435.7 / 92
p0 −56.22 ± 0.4858
pull
Entries 93
Mean 306.6
Std Dev 267.2
pull1D
Entries 93
Mean 0.08459
Std Dev 2.163

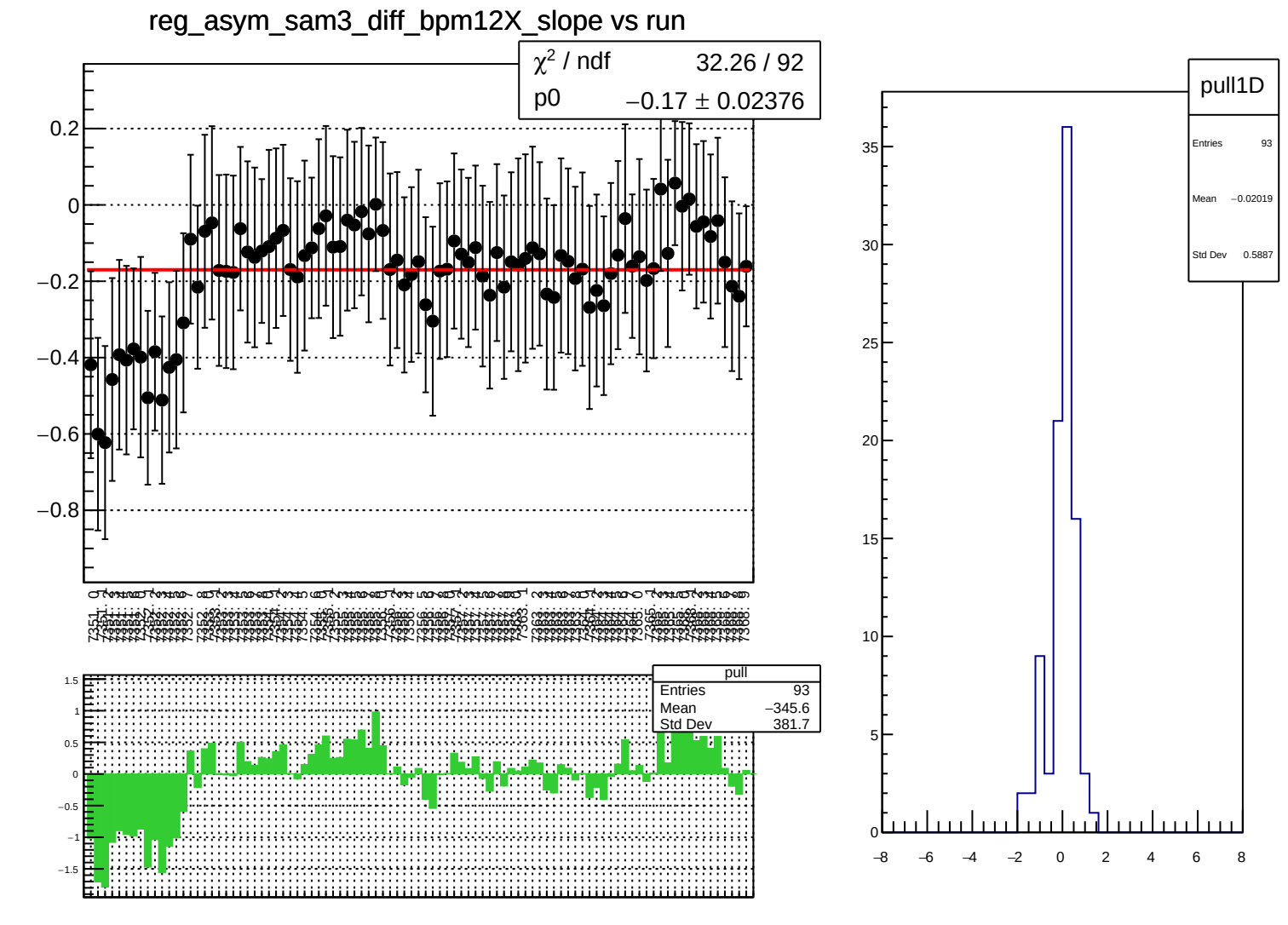

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 170.9 / 92
p0 13.17 ± 0.4738
pull
Entries 93
Mean −77.02
Std Dev 100.6
pull1D
Entries 93
Mean 0.08435
Std Dev 1.353

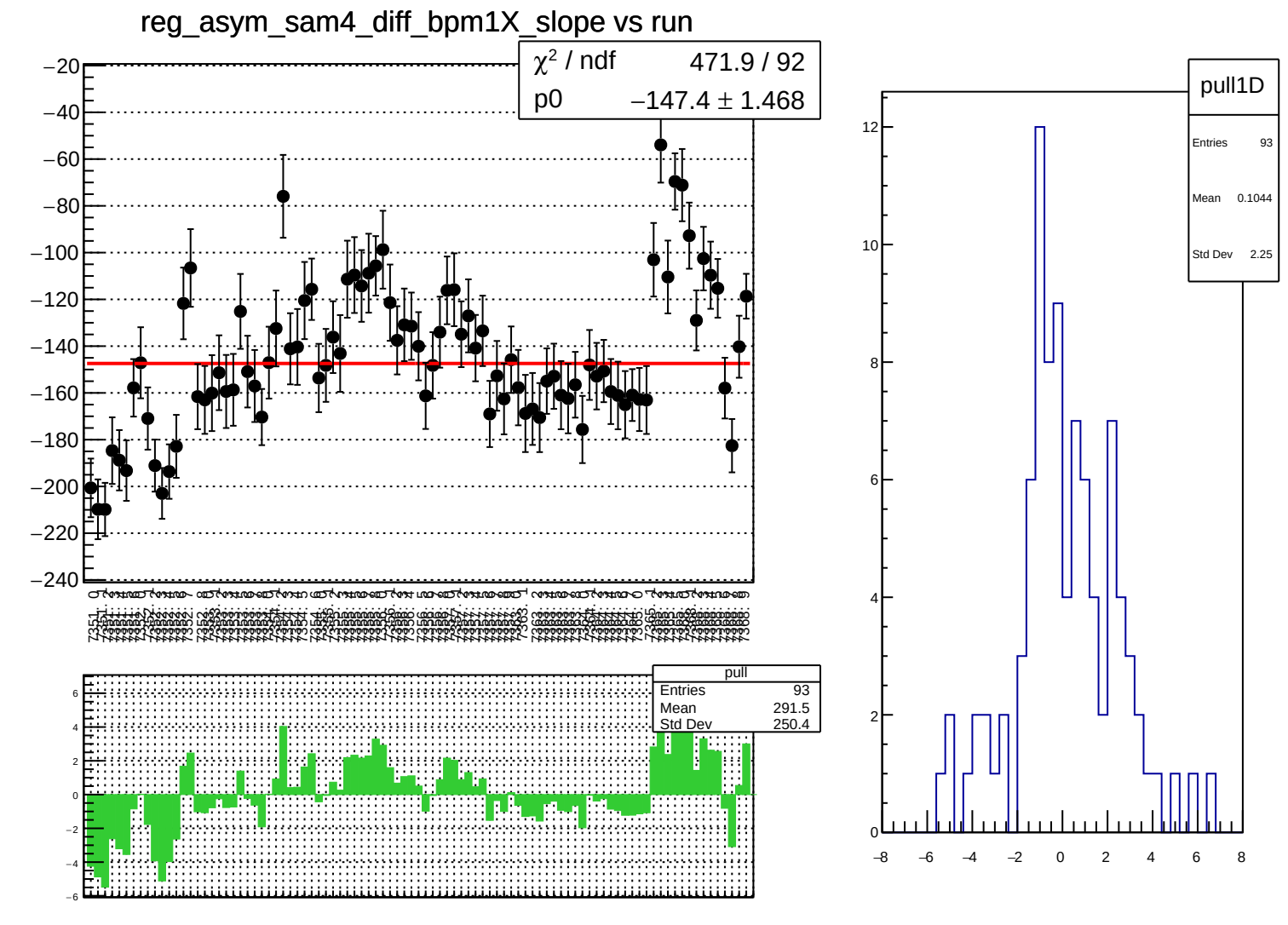

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 217.5 / 92
p0 −26.22 ± 0.4835
pull
Entries 93
Mean 185.4
Std Dev 146.5

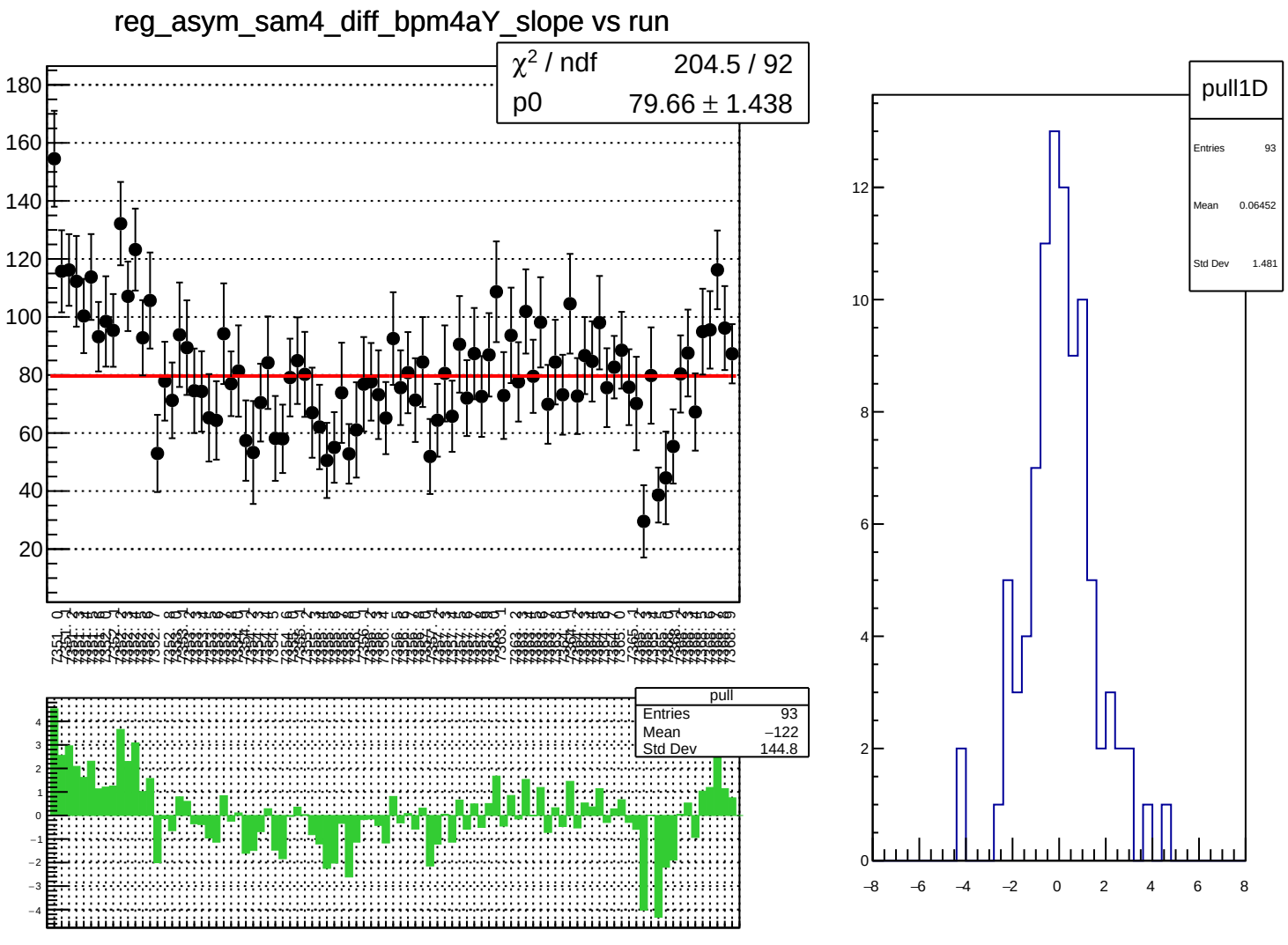

pull1D
Entries 93
Mean −0.1035
Std Dev 1.526

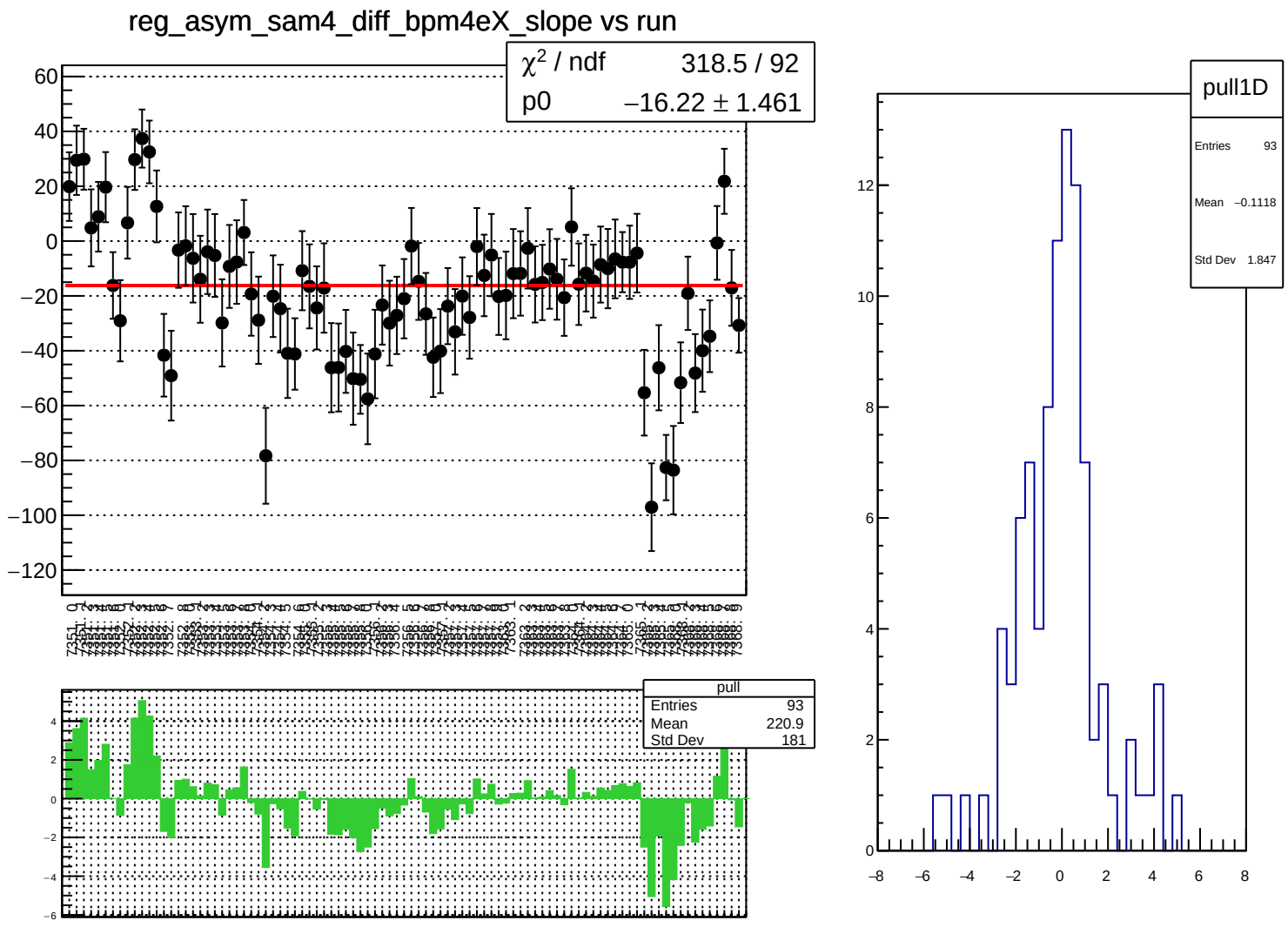

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 152.9 / 92
p0 10.18 ± 0.5045
pull
Entries 93
Mean −164.1
Std Dev 192

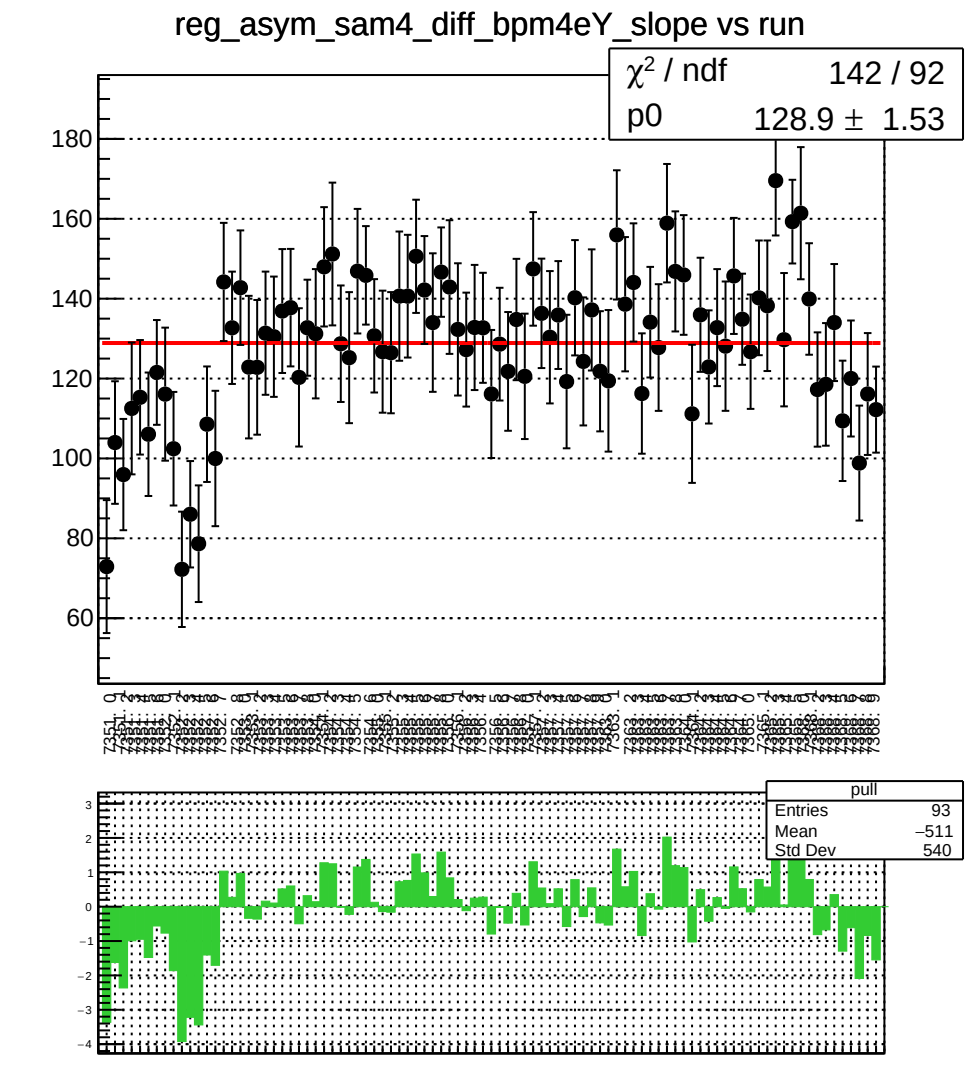

pull1D
Entries 93
Mean −0.05593
Std Dev 1.281

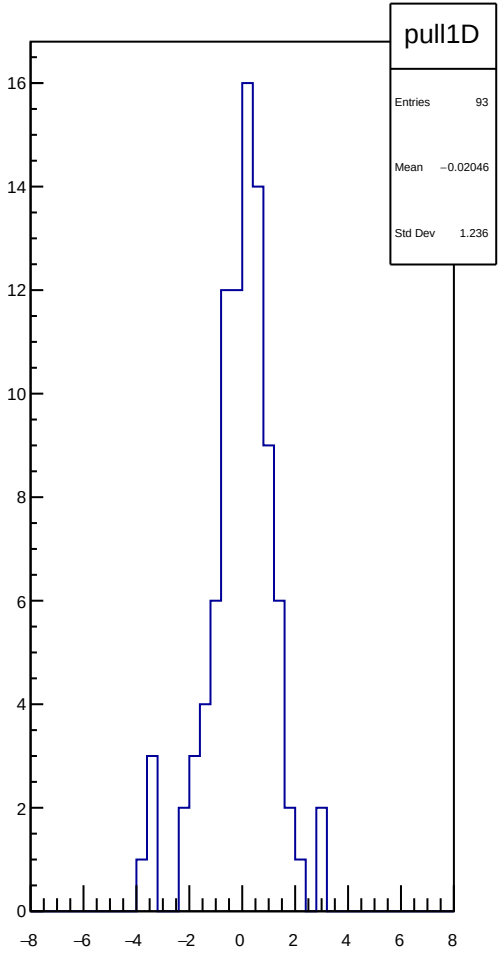

reg_asym_sam3_diff_bpm12X_slope vs run
χ² / ndf 32.26 / 92
p0 −0.17 ± 0.02376
pull
Entries 93
Mean −345.6
Std Dev 381.7
pull1D
Entries 93
Mean −0.02019
Std Dev 0.5887

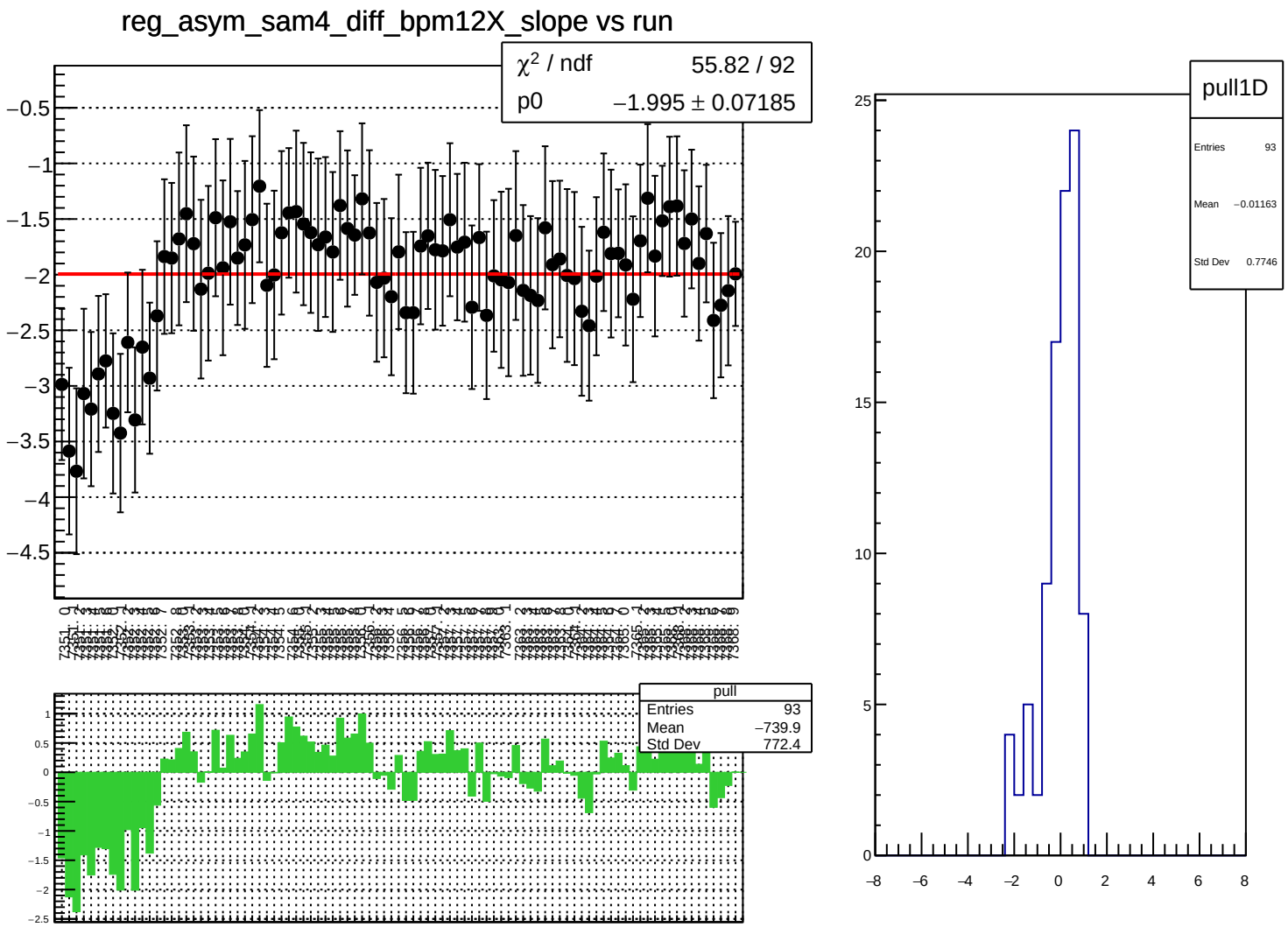

reg_asym_sam4_diff_bpm1X_slope vs run
χ² / ndf 471.9 / 92
p0 −147.4 ± 1.468
pull
Entries 93
Mean 291.5
Std Dev 250.4
pull1D
Entries 93
Mean 0.1044
Std Dev 2.25

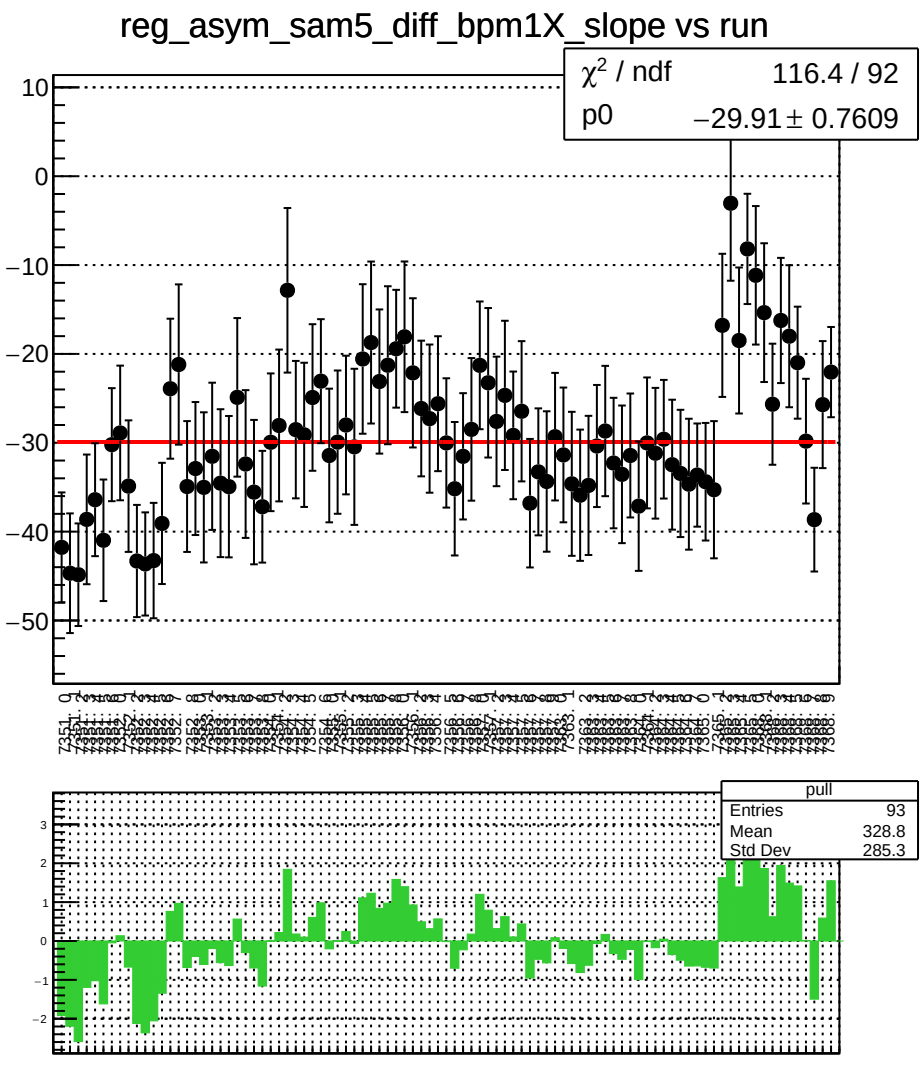

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 204.5 / 92
p0 79.66 ± 1.438
pull
Entries 93
Mean −122
Std Dev 144.8
pull1D
Entries 93
Mean 0.06452
Std Dev 1.481

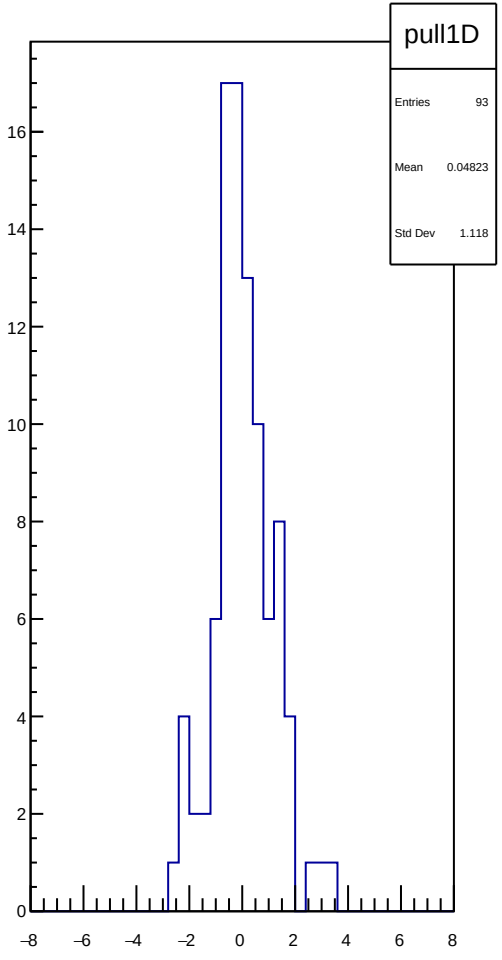

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 318.5 / 92
p0 −16.22 ± 1.461
pull
Entries 93
Mean 220.9
Std Dev 181
pull1D
Entries 93
Mean −0.1118
Std Dev 1.847

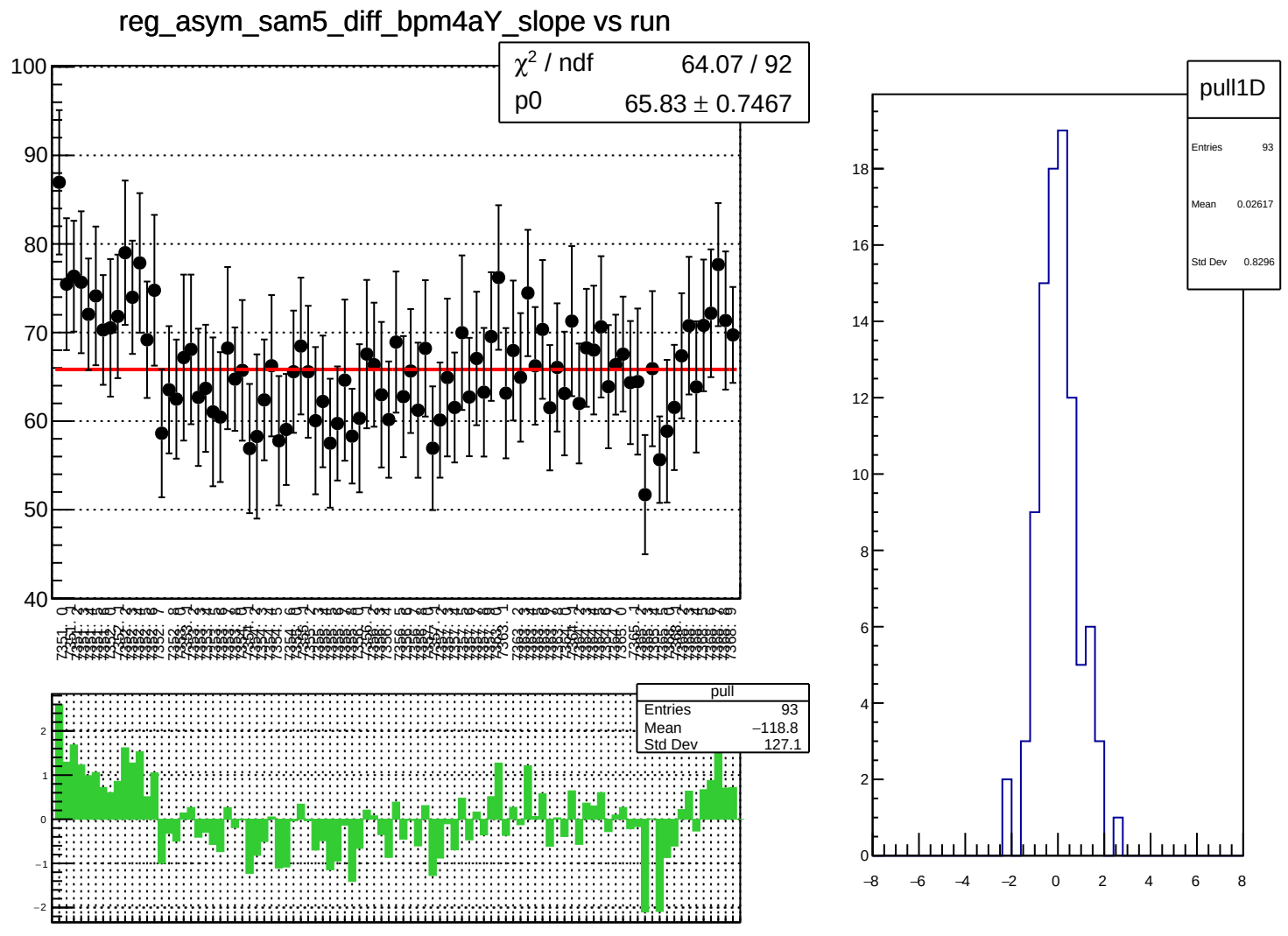

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 142 / 92
p0 128.9 ± 1.53
pull
Entries 93
Mean −511
Std Dev 540

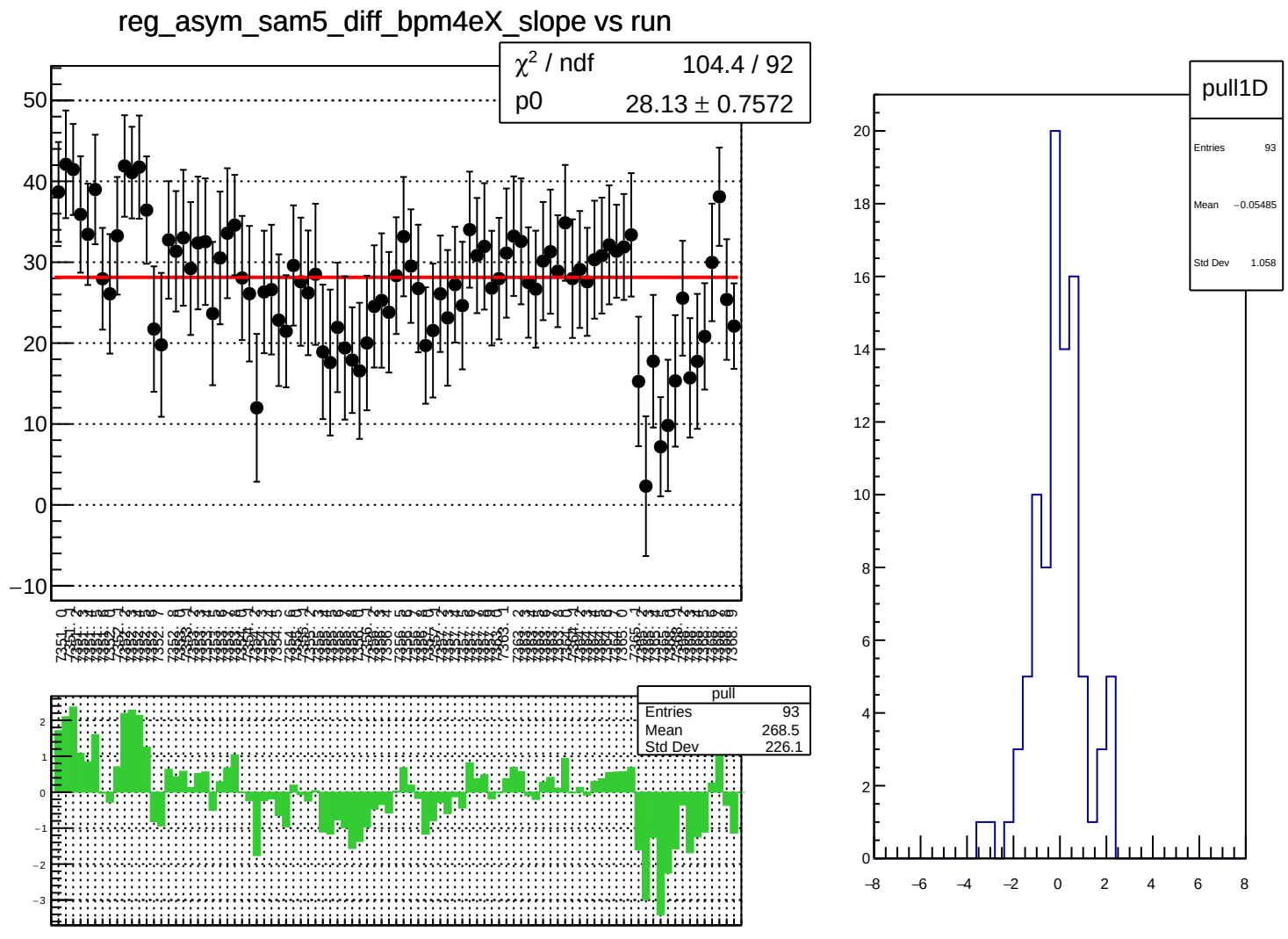

pull1D
Entries 93
Mean −0.02046
Std Dev 1.236

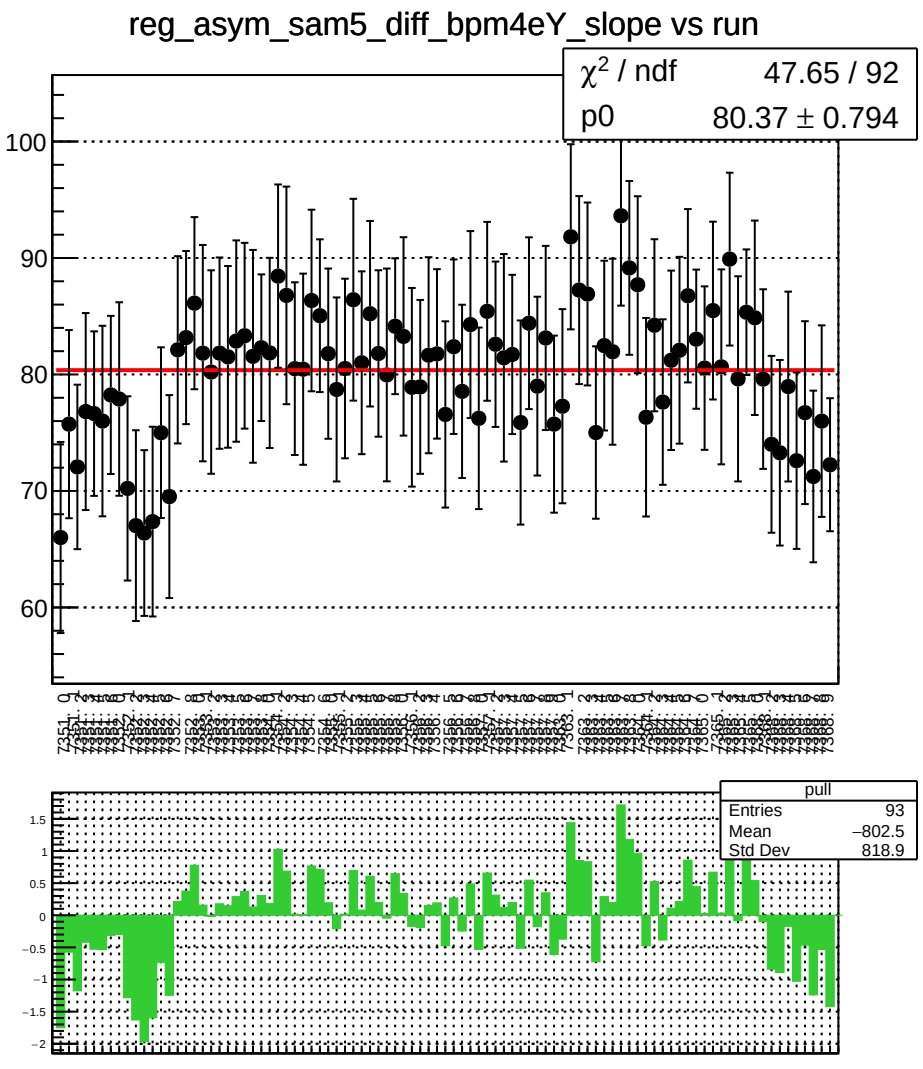

reg_asym_sam4_diff_bpm12X_slope vs run
χ² / ndf 55.82 / 92
p0 −1.995 ± 0.07185
pull
Entries 93
Mean −739.9
Std Dev 772.4
pull1D
Entries 93
Mean −0.01163
Std Dev 0.7746

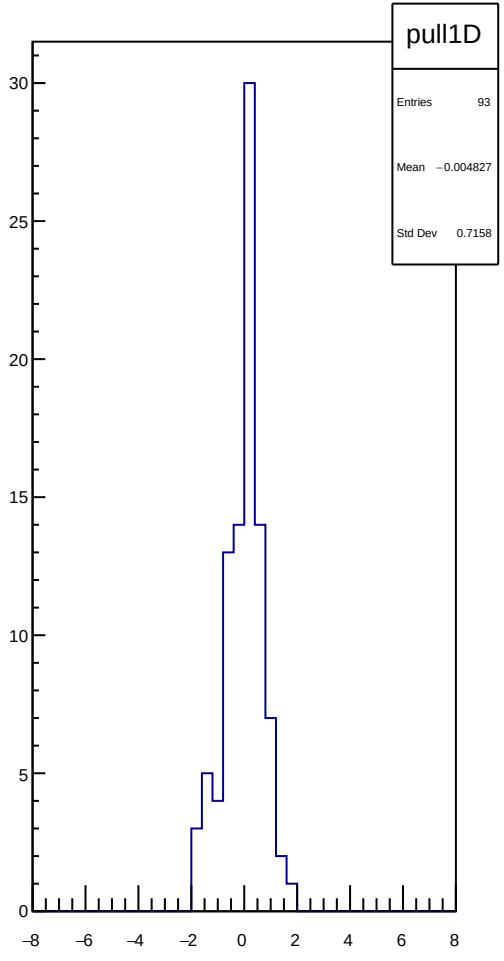

reg_asym_sam5_diff_bpm1X_slope vs run
χ² / ndf 116.4 / 92
p0 −29.91 ± 0.7609
pull
Entries 93
Mean 328.8
Std Dev 285.3

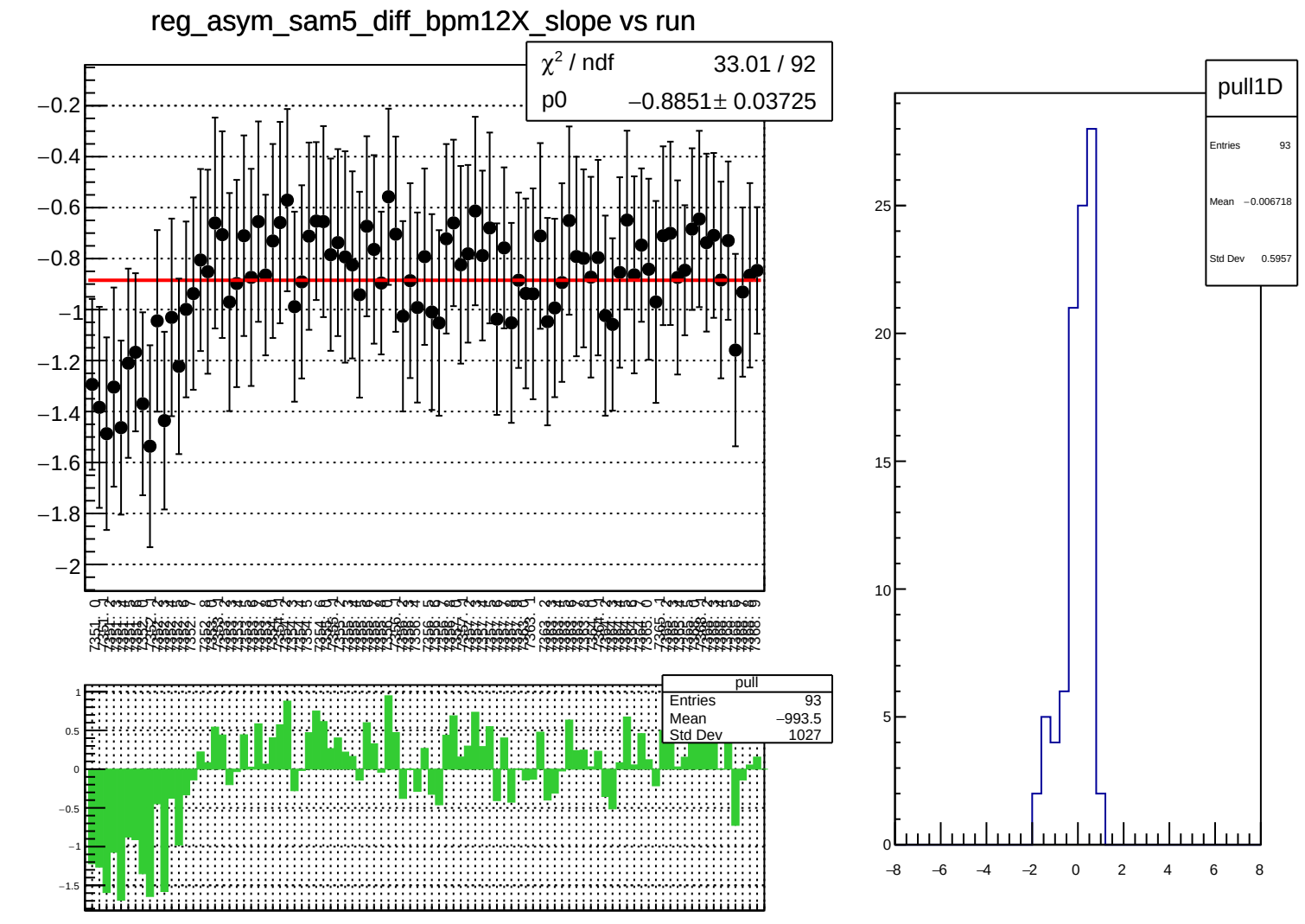

pull1D
Entries 93
Mean 0.04823
Std Dev 1.118

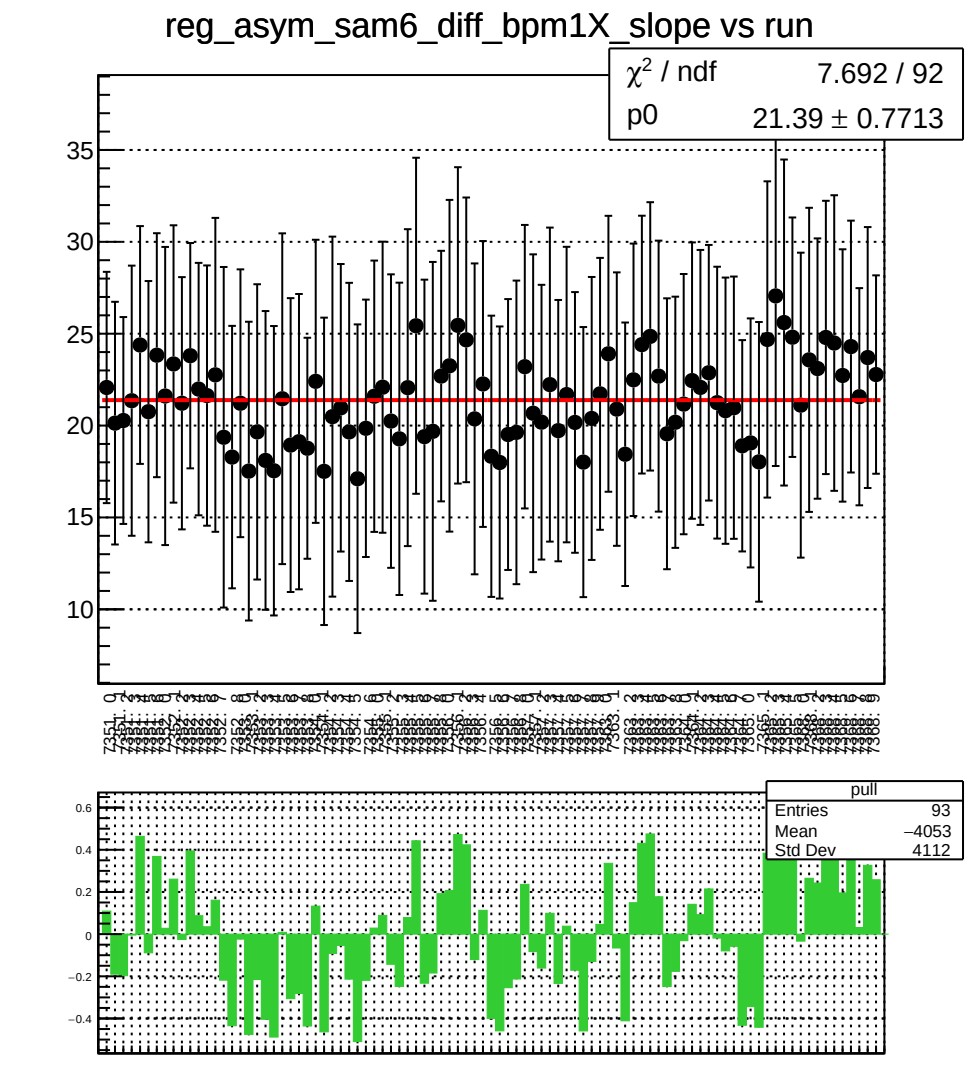

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 64.07 / 92
p0 65.83 ± 0.7467
pull
Entries 93
Mean −118.8
Std Dev 127.1
pull1D
Entries 93
Mean 0.02617
Std Dev 0.8296

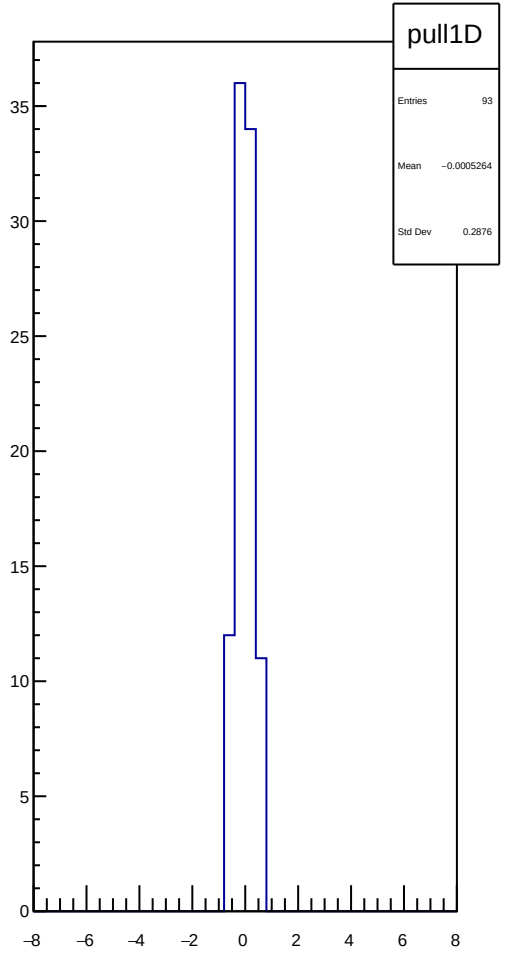

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 104.4 / 92
p0 28.13 ± 0.7572
pull
Entries 93
Mean 268.5
Std Dev 226.1
pull1D
Entries 93
Mean −0.05485
Std Dev 1.058

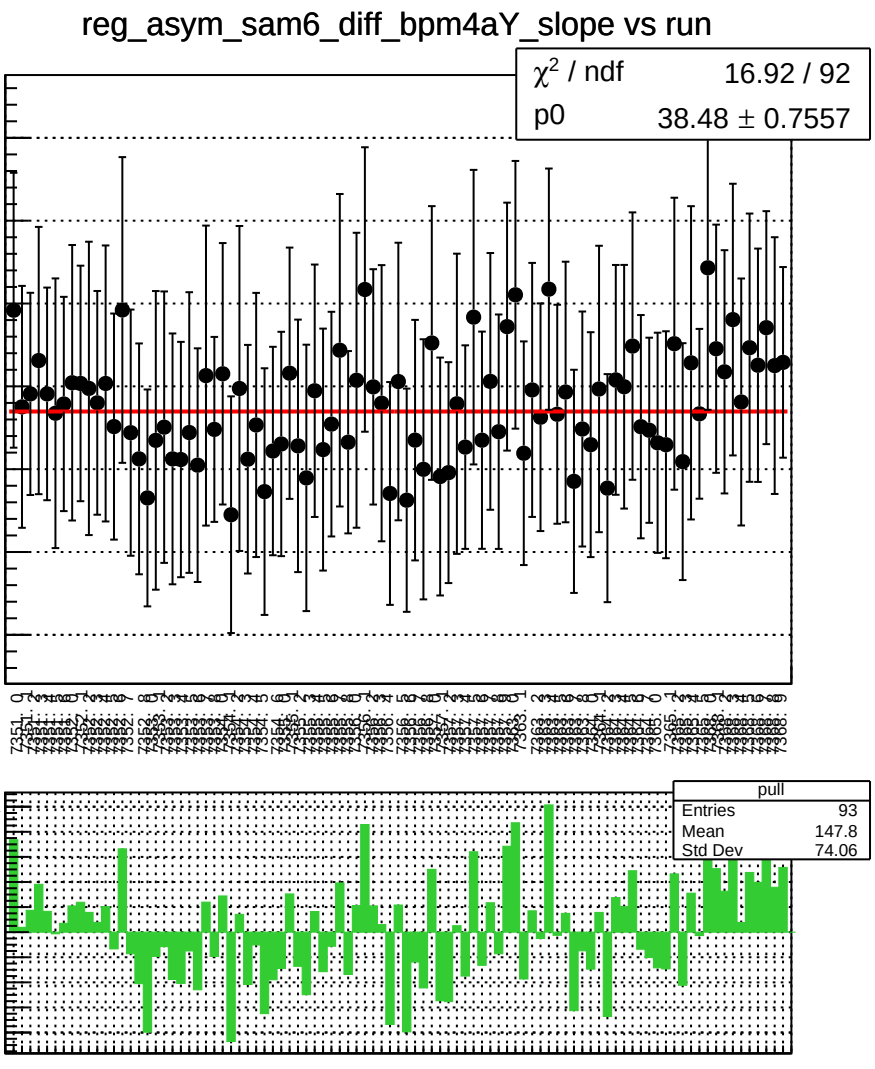

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 47.65 / 92
p0 80.37 ± 0.794
100
90
80
70
60
pull
Entries 93
Mean −802.5
Std Dev 818.9
1.5
1
0.5
0
−0.5
−1
−1.5
−2

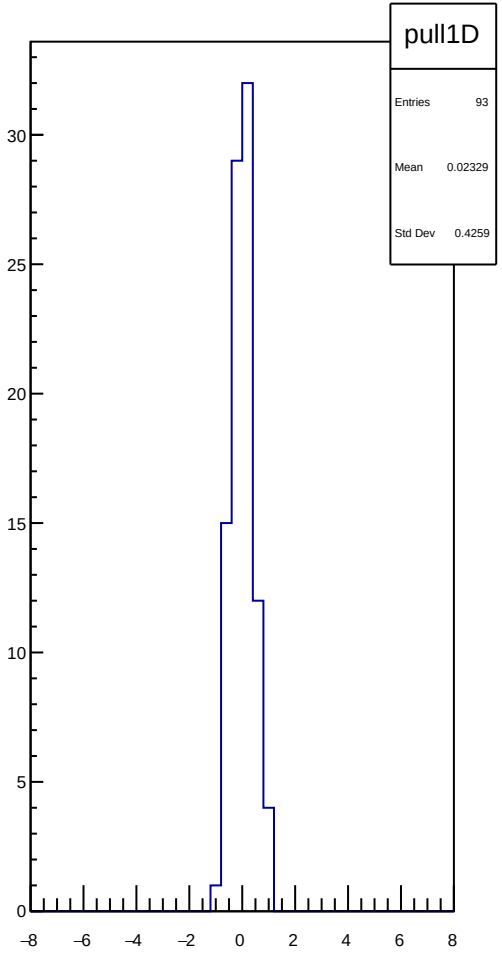

pull1D
Entries 93
Mean −0.004827
Std Dev 0.7158
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

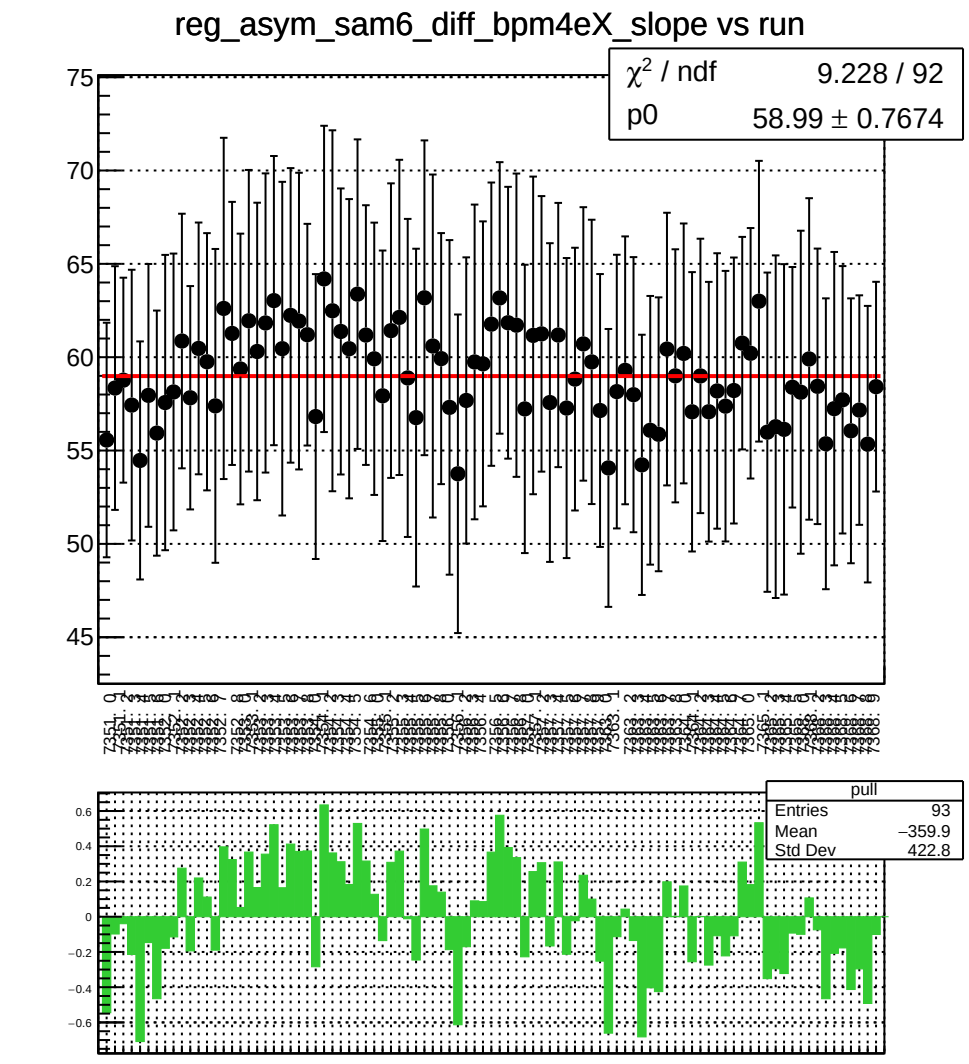

reg_asym_sam5_diff_bpm12X_slope vs run
χ² / ndf 33.01 / 92
p0 −0.8851 ± 0.03725
pull
Entries 93
Mean −993.5
Std Dev 1027
pull1D
Entries 93
Mean −0.006718
Std Dev 0.5957

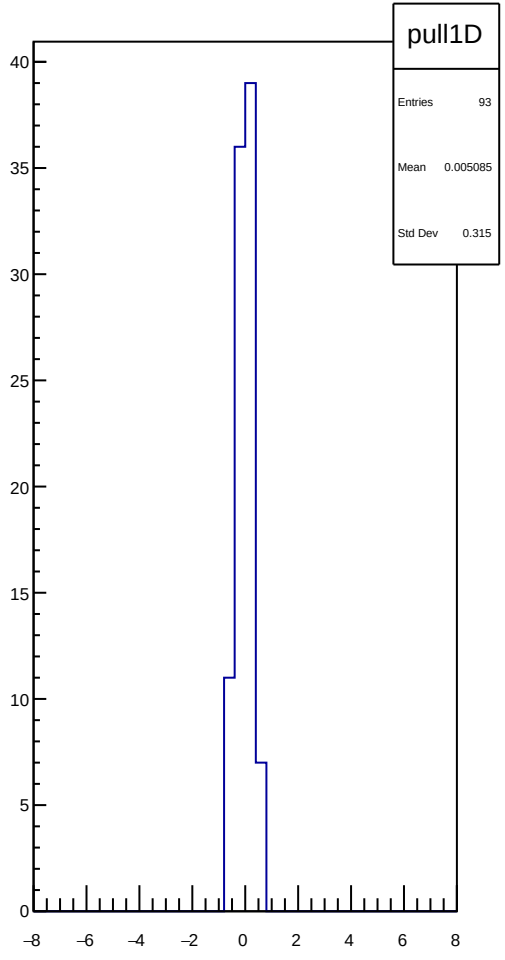

reg_asym_sam6_diff_bpm1X_slope vs run
χ² / ndf 7.692 / 92
p0 21.39 ± 0.7713
pull
Entries 93
Mean −4053
Std Dev 4112

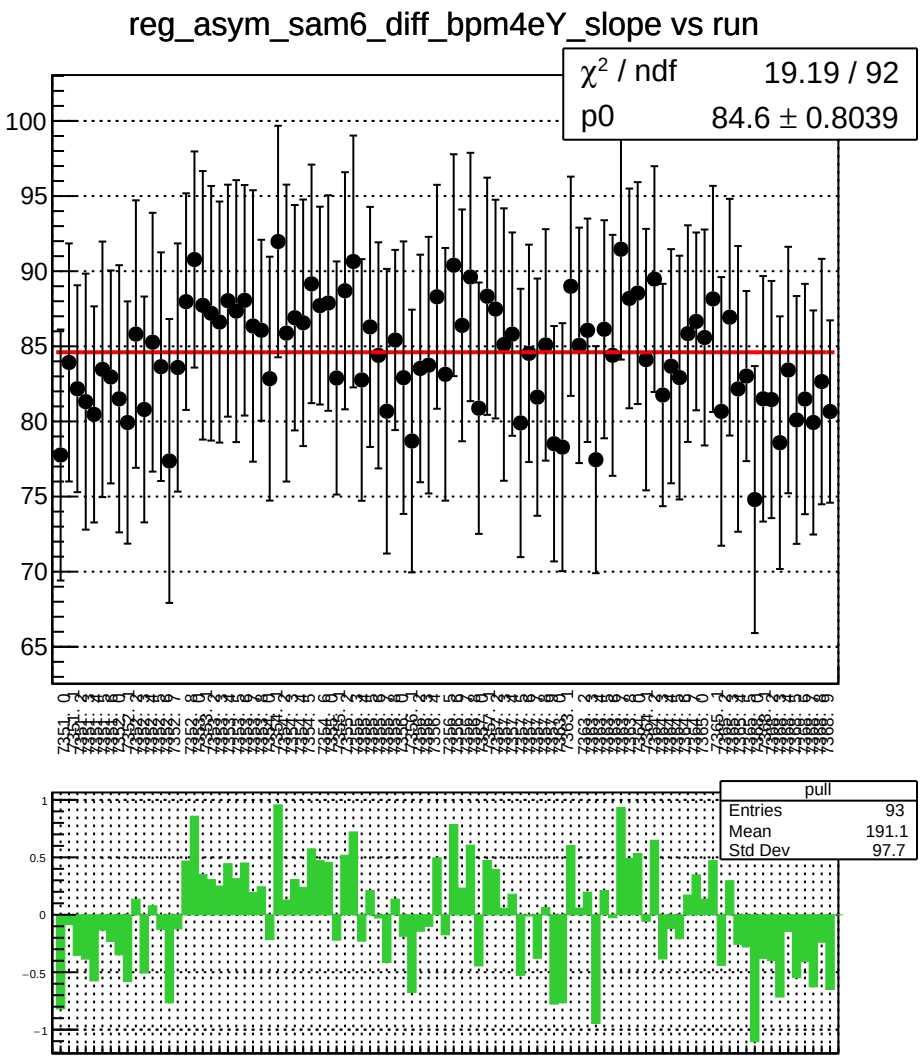

pull1D
Entries 93
Mean −0.0005264
Std Dev 0.2876

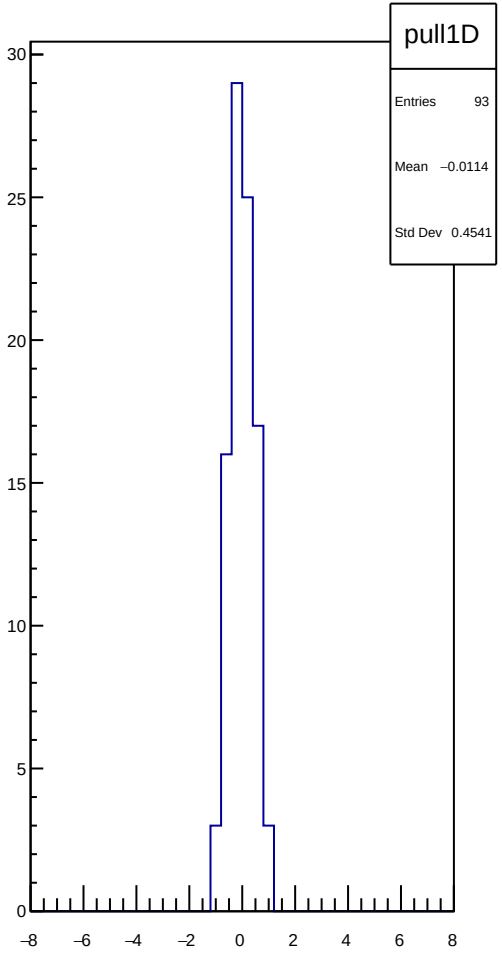

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 16.92 / 92
p0 38.48 ± 0.7557
pull
Entries 93
Mean 147.8
Std Dev 74.06

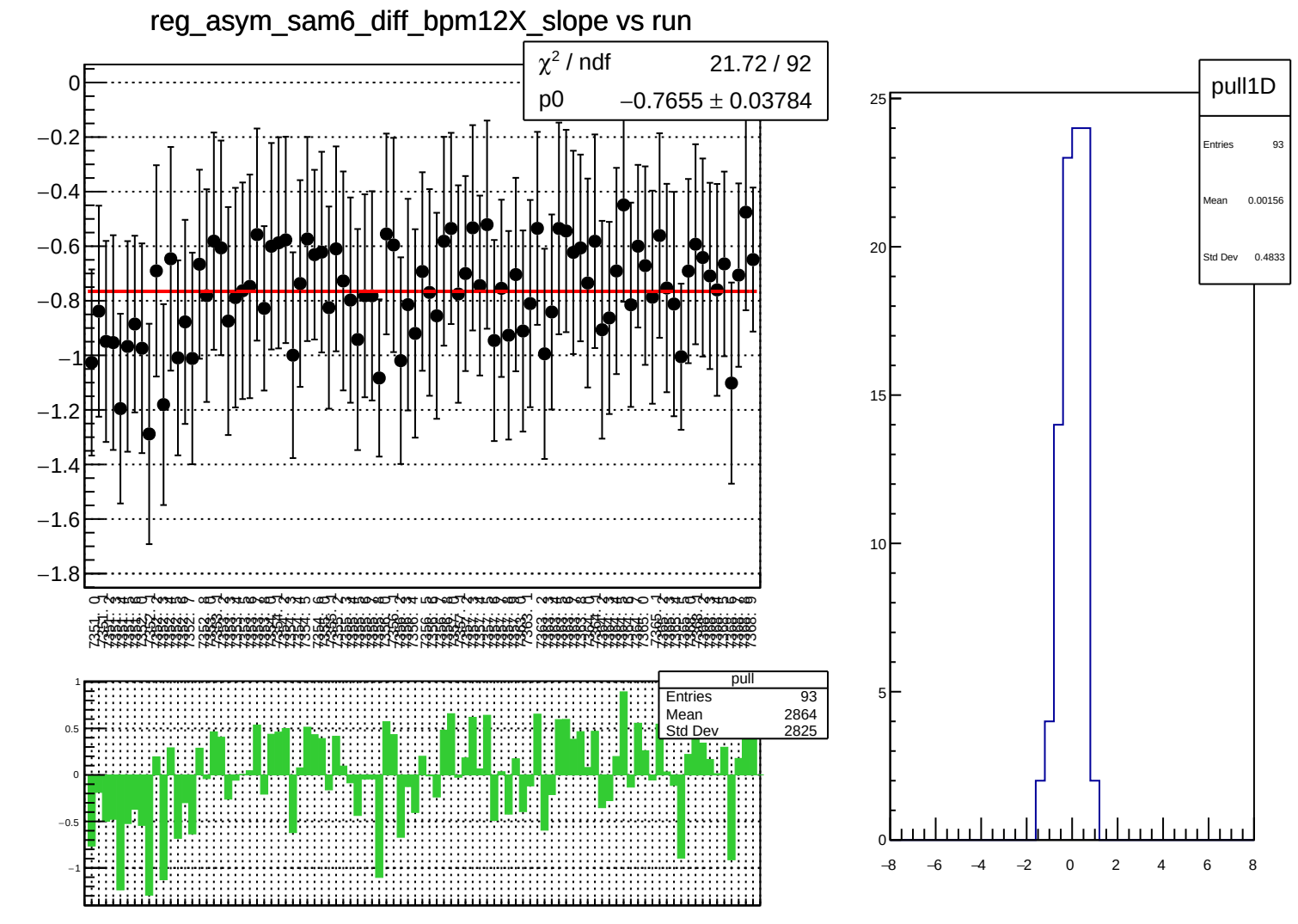

pull1D
Entries 93
Mean 0.02329
Std Dev 0.4259

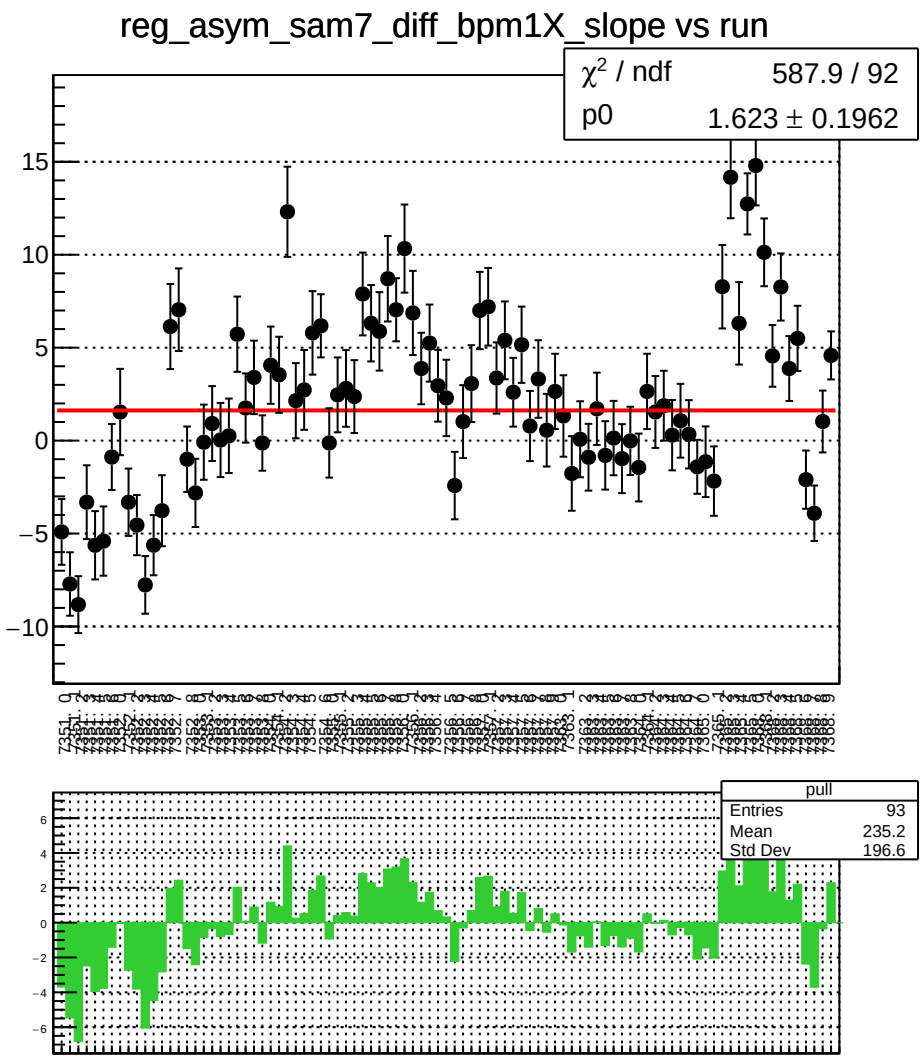

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 9.228 / 92
p0 58.99 ± 0.7674
pull
Entries 93
Mean −359.9
Std Dev 422.8

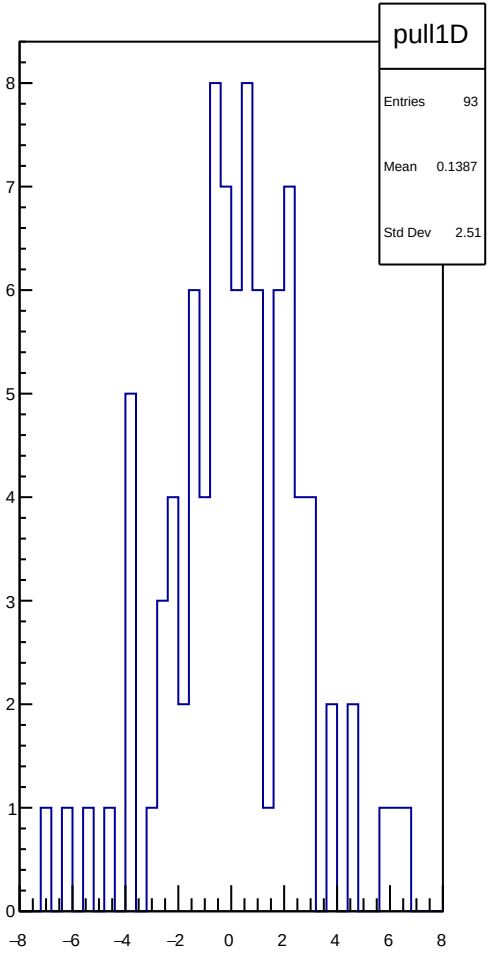

pull1D
Entries 93
Mean 0.005085
Std Dev 0.315

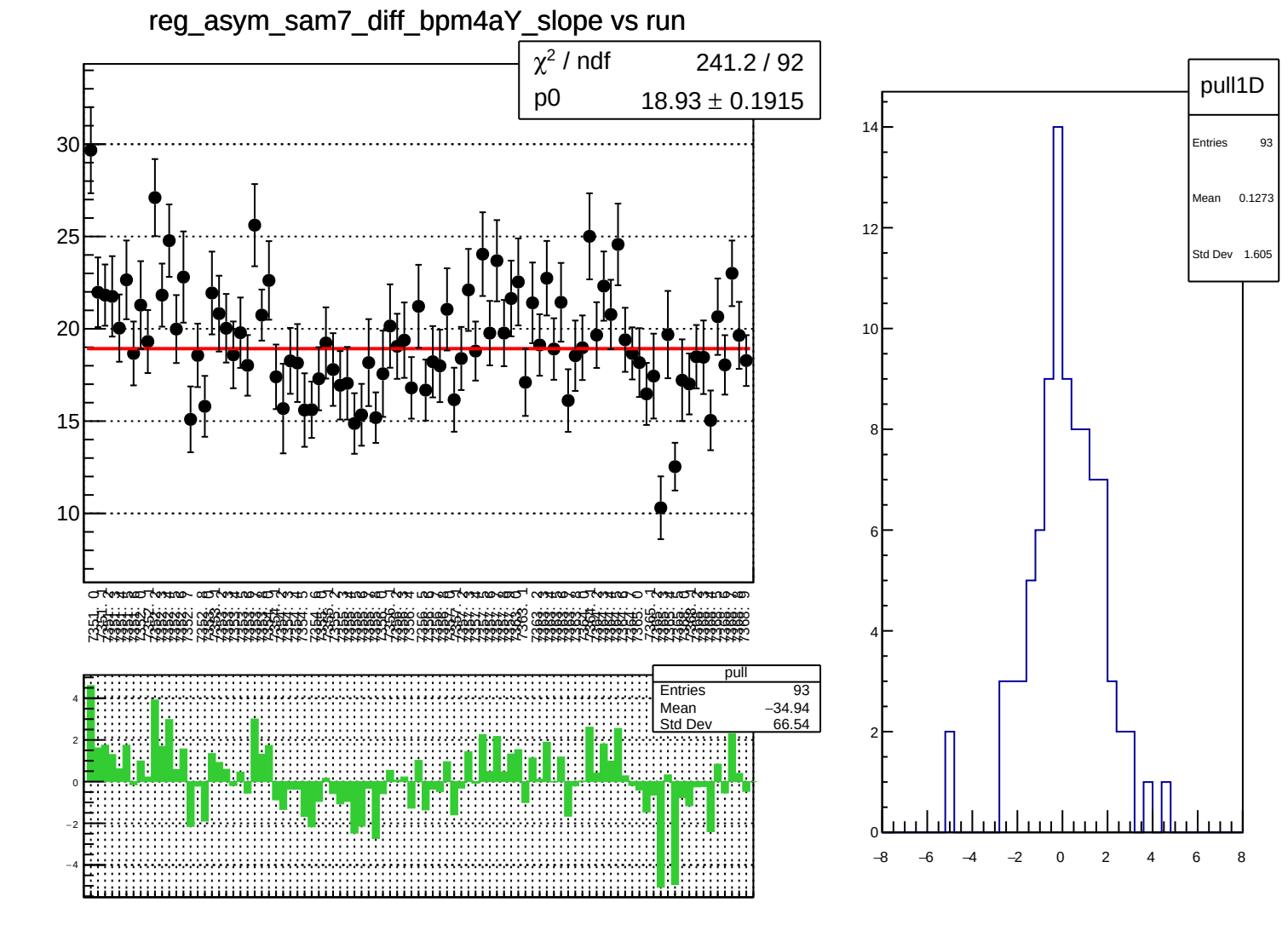

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 19.19 / 92
p0 84.6 ± 0.8039
pull
Entries 93
Mean 191.1
Std Dev 97.7

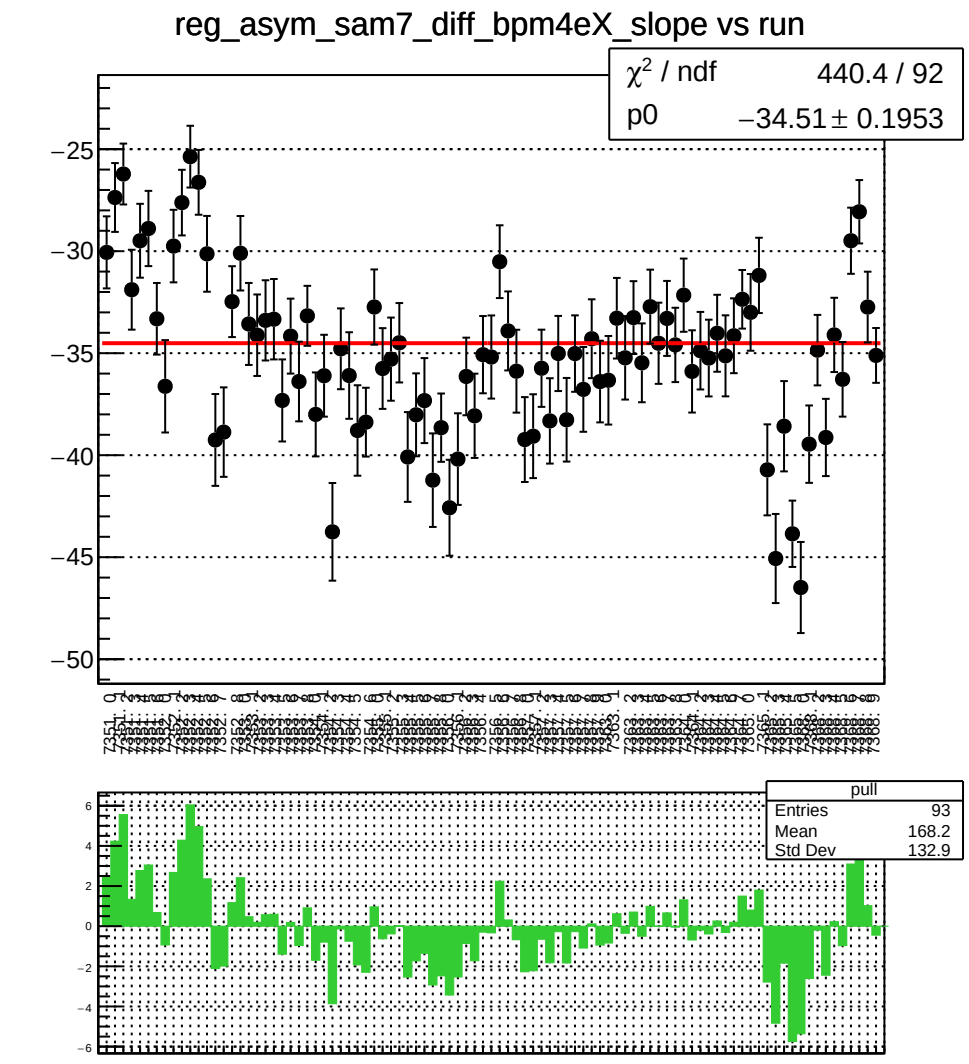

pull1D
Entries 93
Mean −0.0114
Std Dev 0.4541

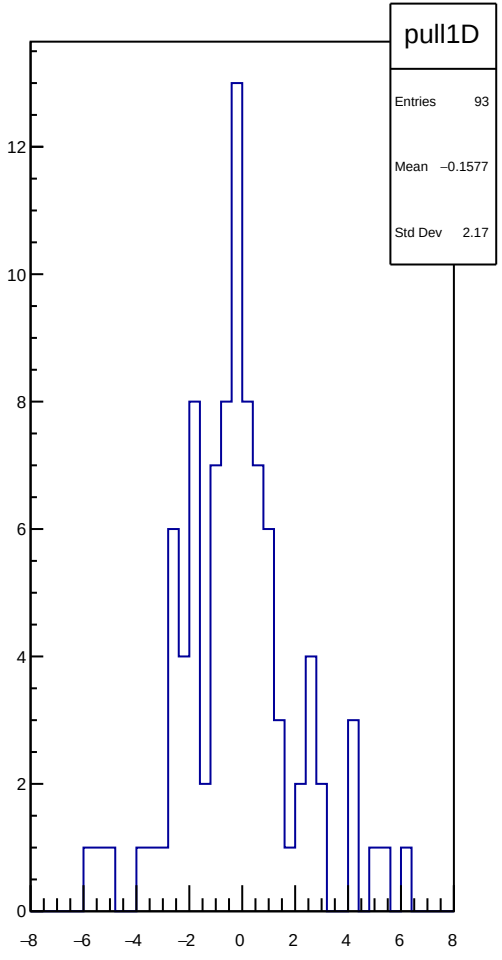

reg_asym_sam6_diff_bpm12X_slope vs run
χ² / ndf 21.72 / 92
p0 −0.7655 ± 0.03784
pull
Entries 93
Mean 2864
Std Dev 2825
pull1D
Entries 93
Mean 0.00156
Std Dev 0.4833

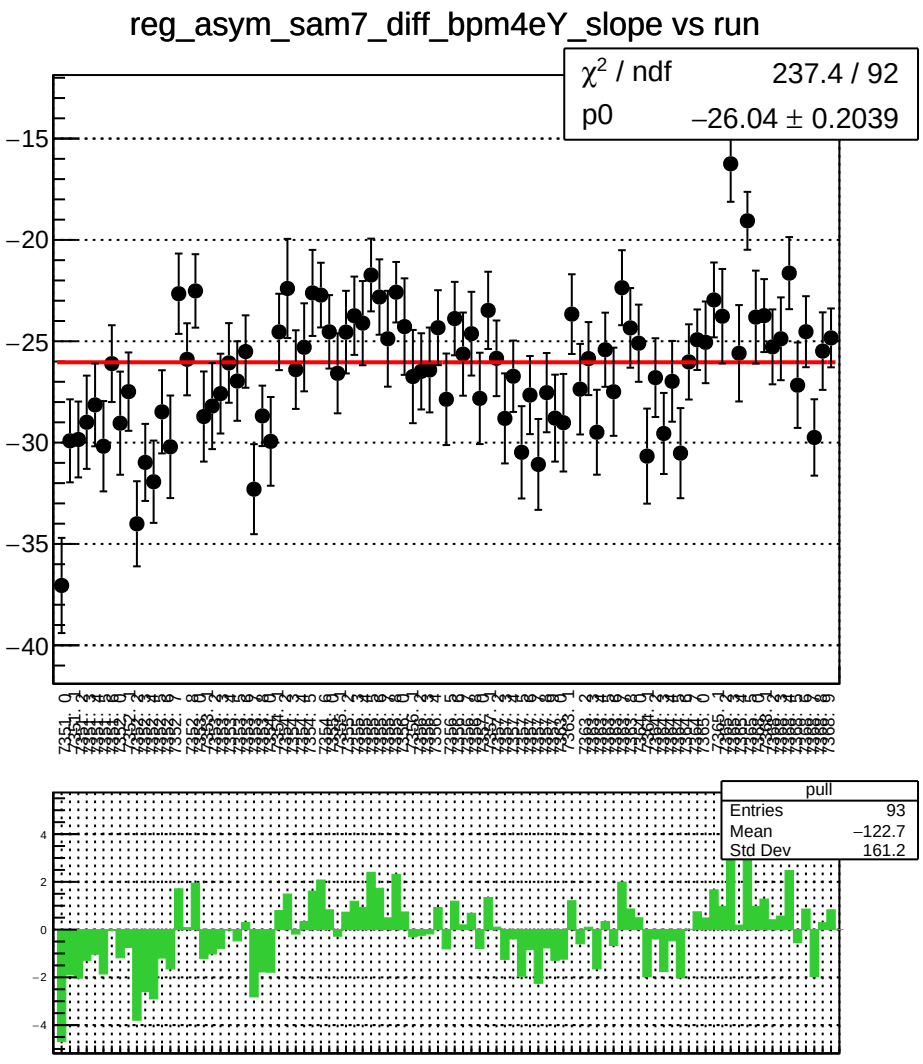

reg_asym_sam7_diff_bpm1X_slope vs run
χ² / ndf 587.9 / 92
p0 1.623 ± 0.1962
pull
Entries 93
Mean 235.2
Std Dev 196.6

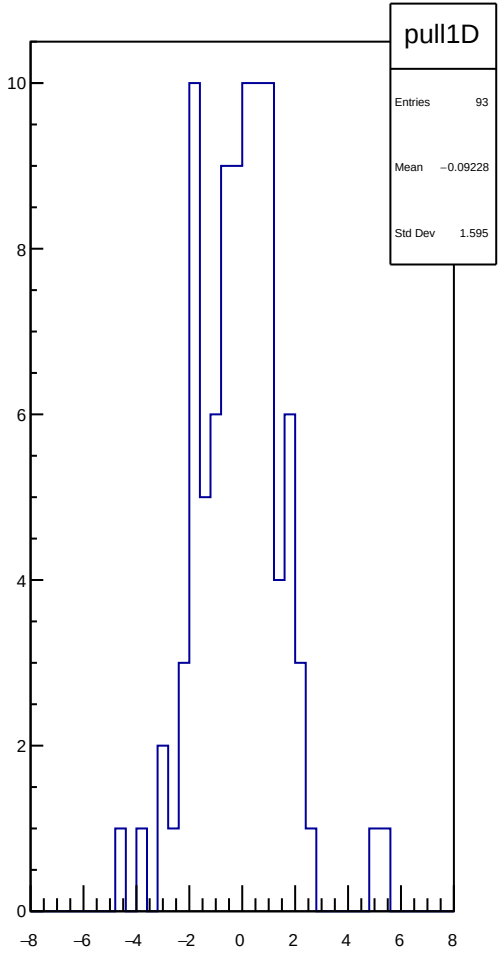

pull1D
Entries 93
Mean 0.1387
Std Dev 2.51

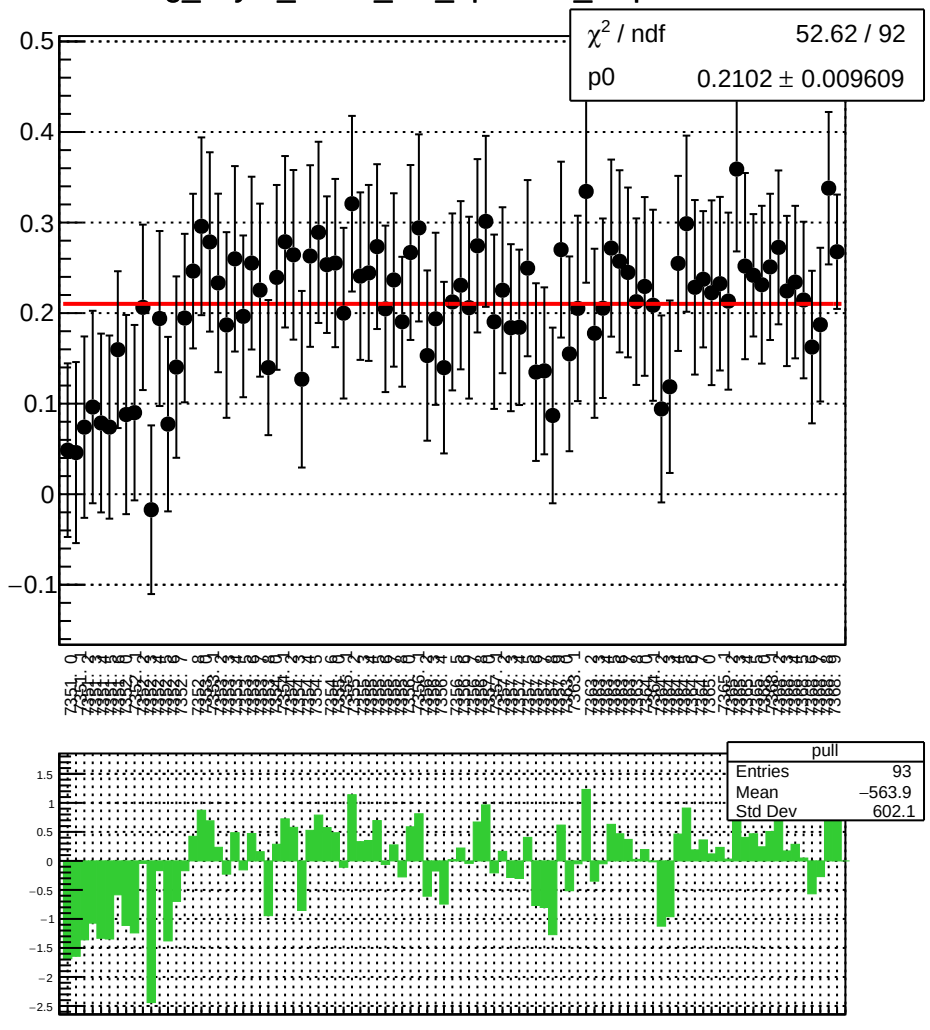

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 241.2 / 92
p0 18.93 ± 0.1915
pull
Entries 93
Mean −34.94
Std Dev 66.54
pull1D
Entries 93
Mean 0.1273
Std Dev 1.605

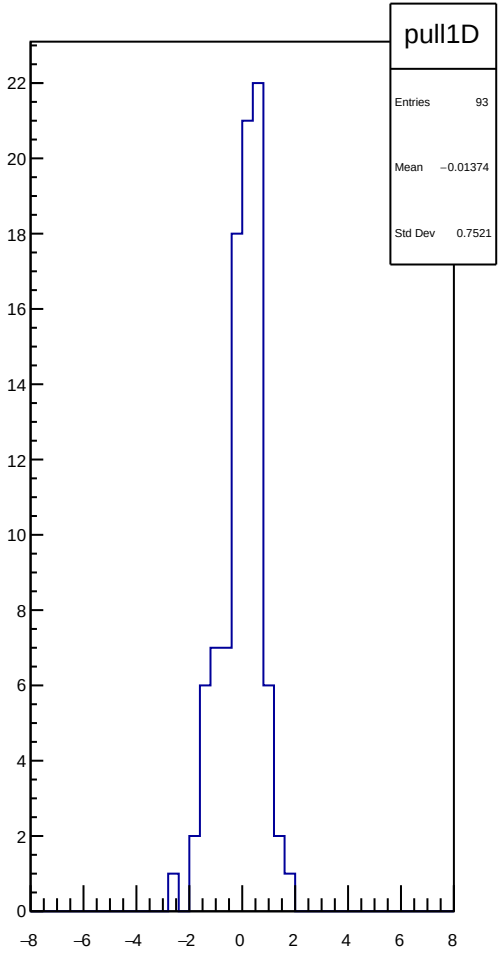

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 440.4 / 92
p0 −34.51 ± 0.1953
pull
Entries 93
Mean 168.2
Std Dev 132.9

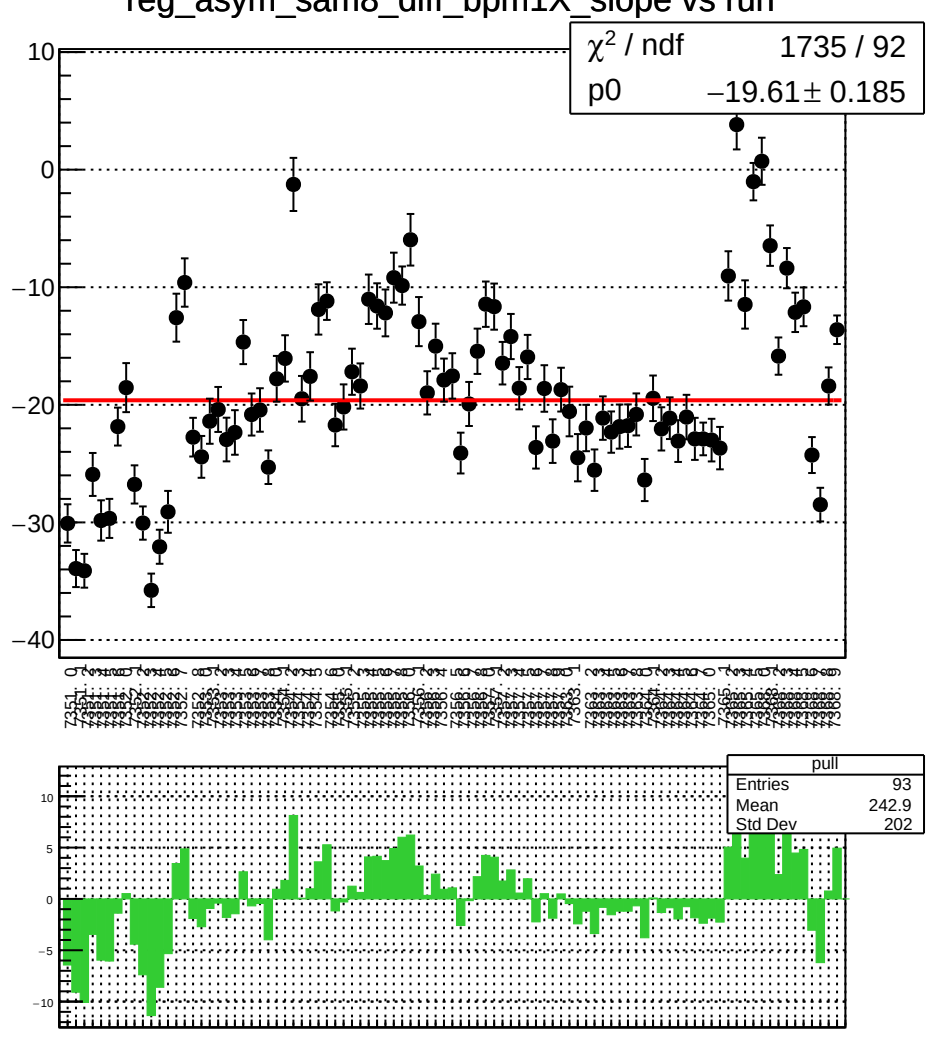

pull1D
Entries 93
Mean −0.1577
Std Dev 2.17

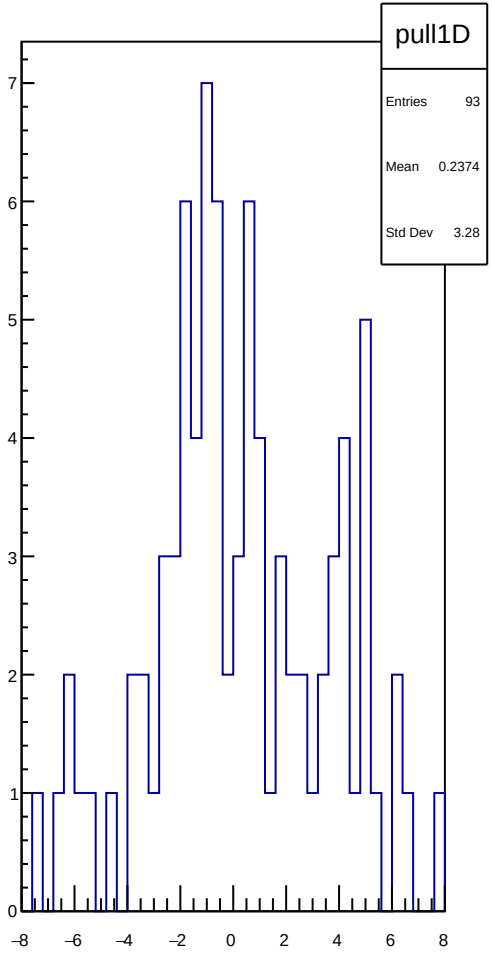

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 237.4 / 92
p0 −26.04 ± 0.2039
−15
−20
−25
−30
−35
−40
pull
Entries 93
Mean −122.7
Std Dev 161.2
4
2
0
−2
−4

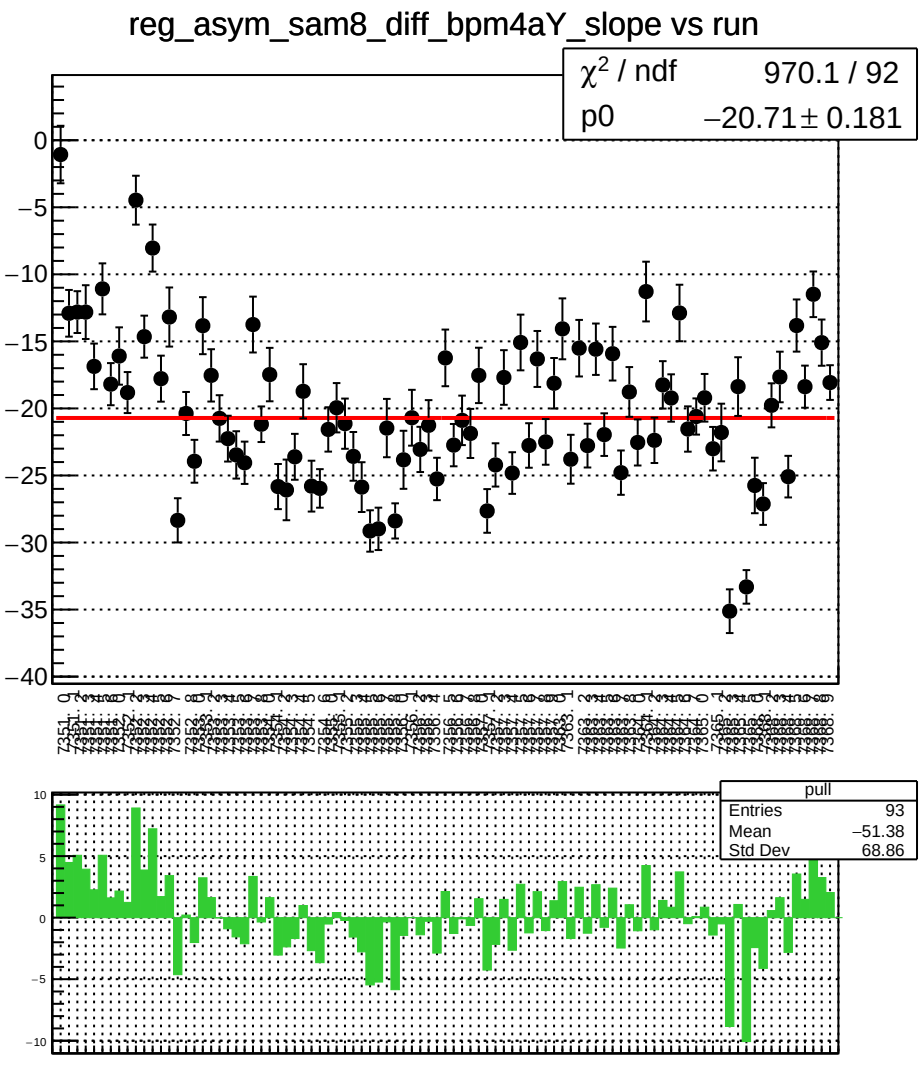

pull1D
Entries 93
Mean −0.09228
Std Dev 1.595
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

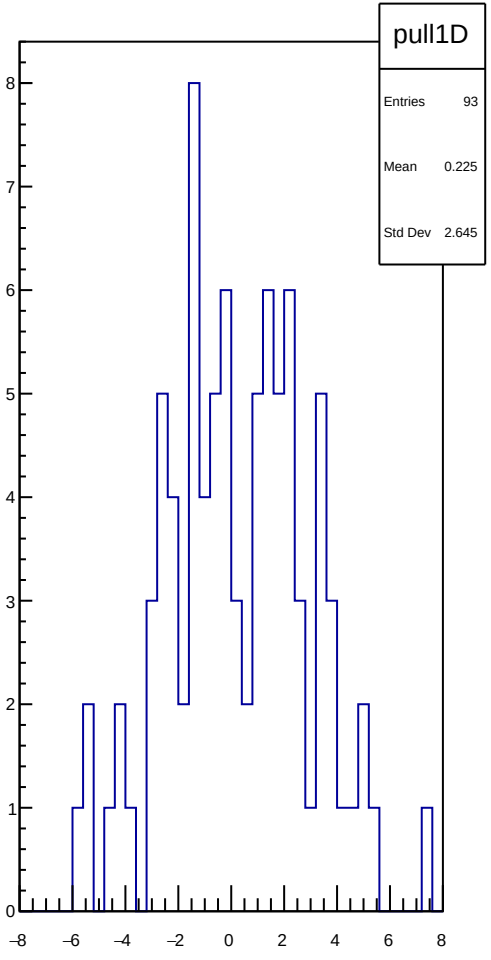

reg_asym_sam7_diff_bpm12X_slope vs run
χ² / ndf 52.62 / 92
p0 0.2102 ± 0.009609
pull
Entries 93
Mean −563.9
Std Dev 602.1

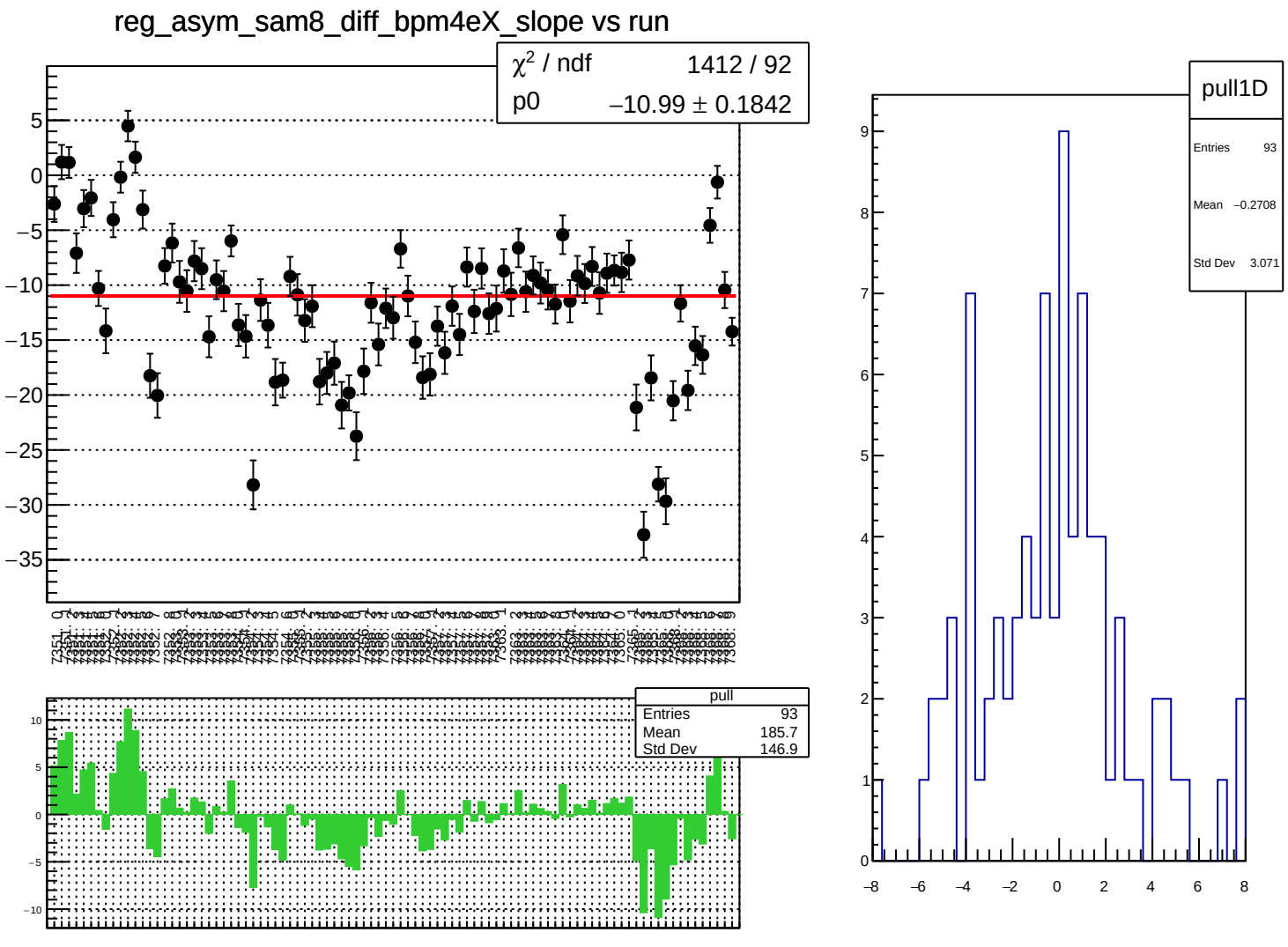

pull1D
Entries 93
Mean −0.01374
Std Dev 0.7521

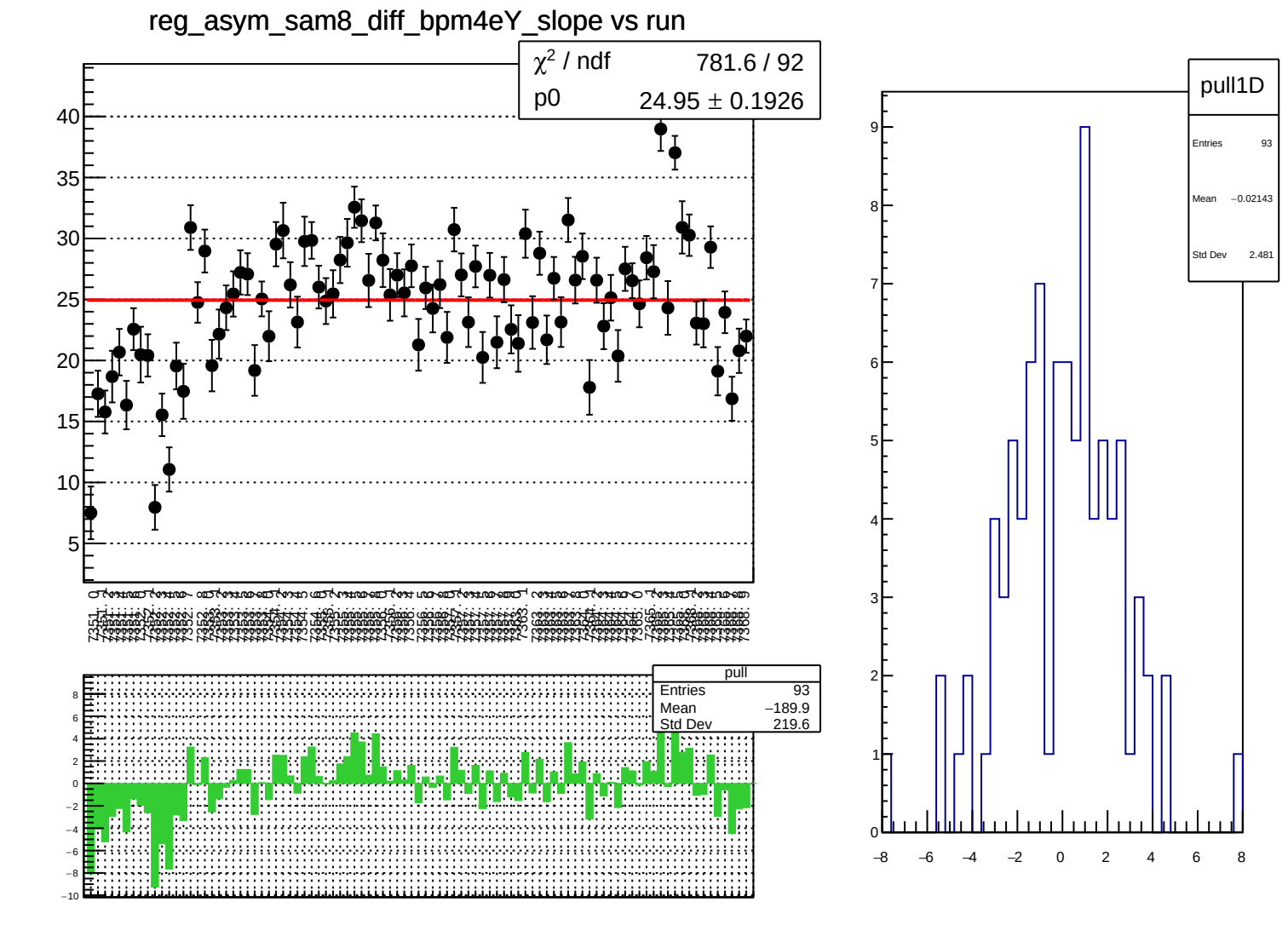

reg_asym_sam8_diff_bpm1X_slope vs run
χ² / ndf 1735 / 92
p0 −19.61 ± 0.185
pull
Entries 93
Mean 242.9
Std Dev 202

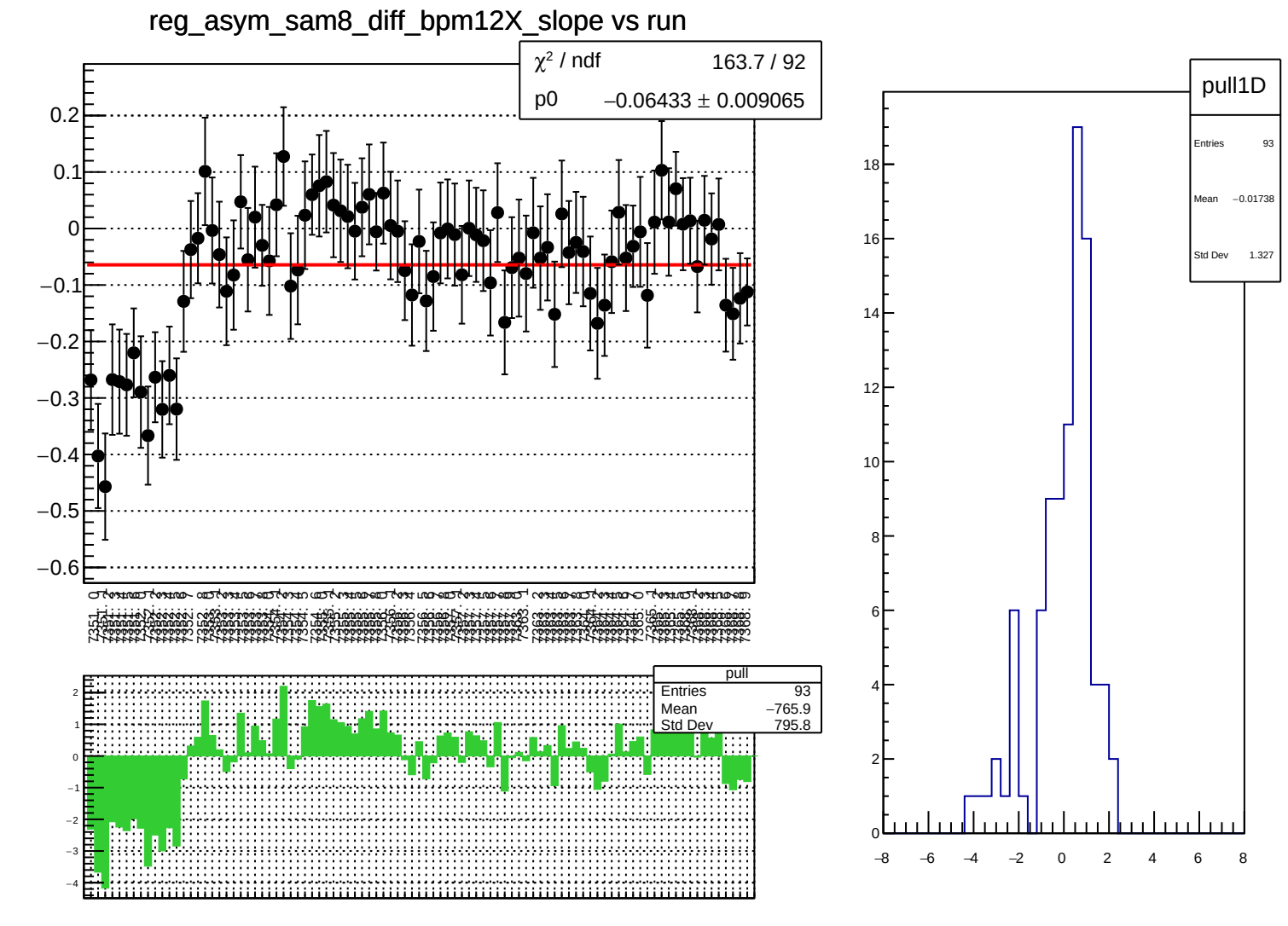

pull1D
Entries 93
Mean 0.2374
Std Dev 3.28

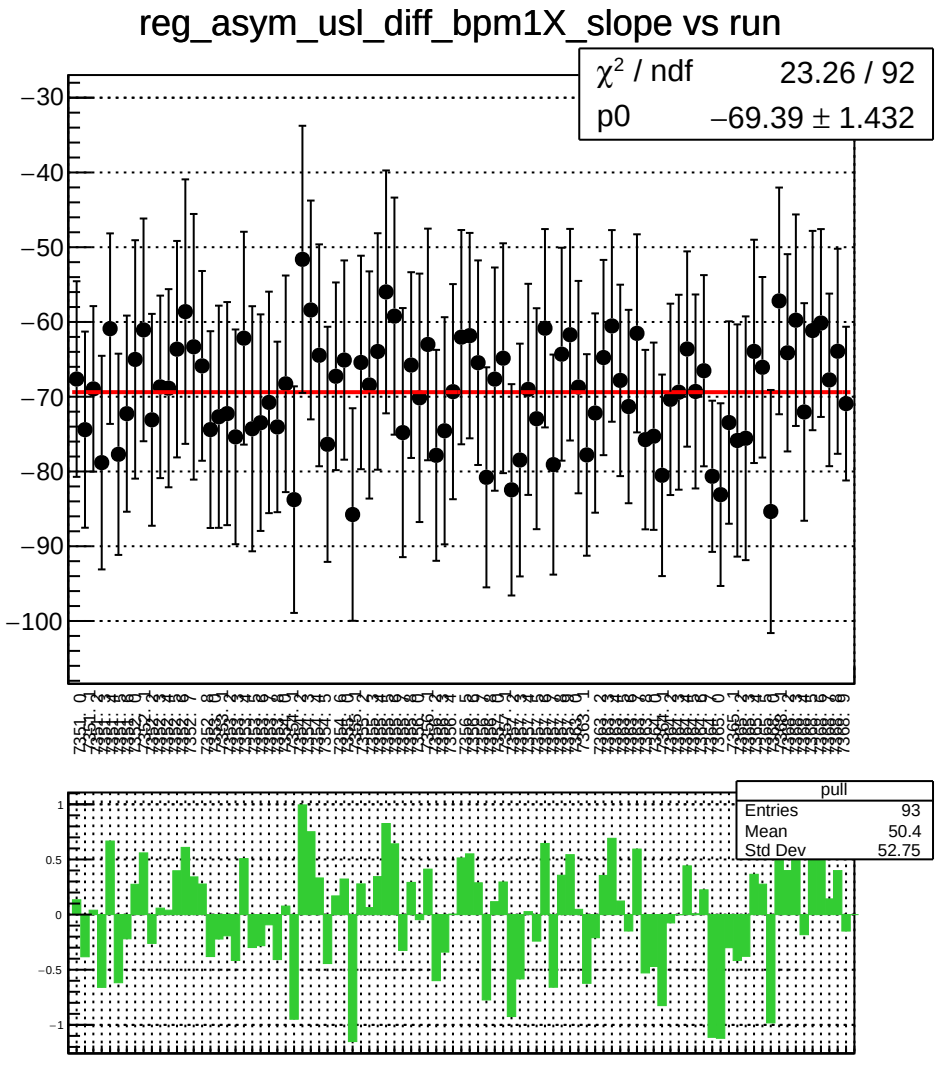

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 970.1 / 92
p0 −20.71 ± 0.181
pull
Entries 93
Mean −51.38
Std Dev 68.86

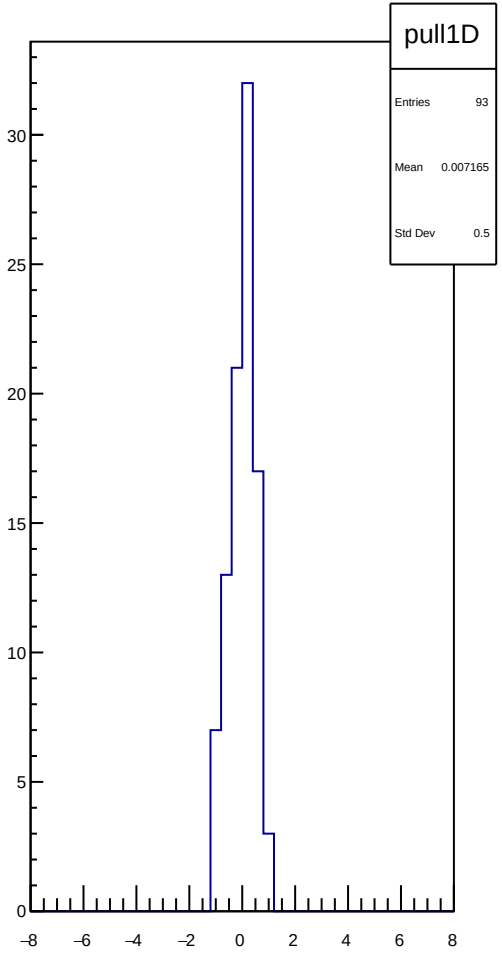

pull1D
Entries 93
Mean 0.225
Std Dev 2.645

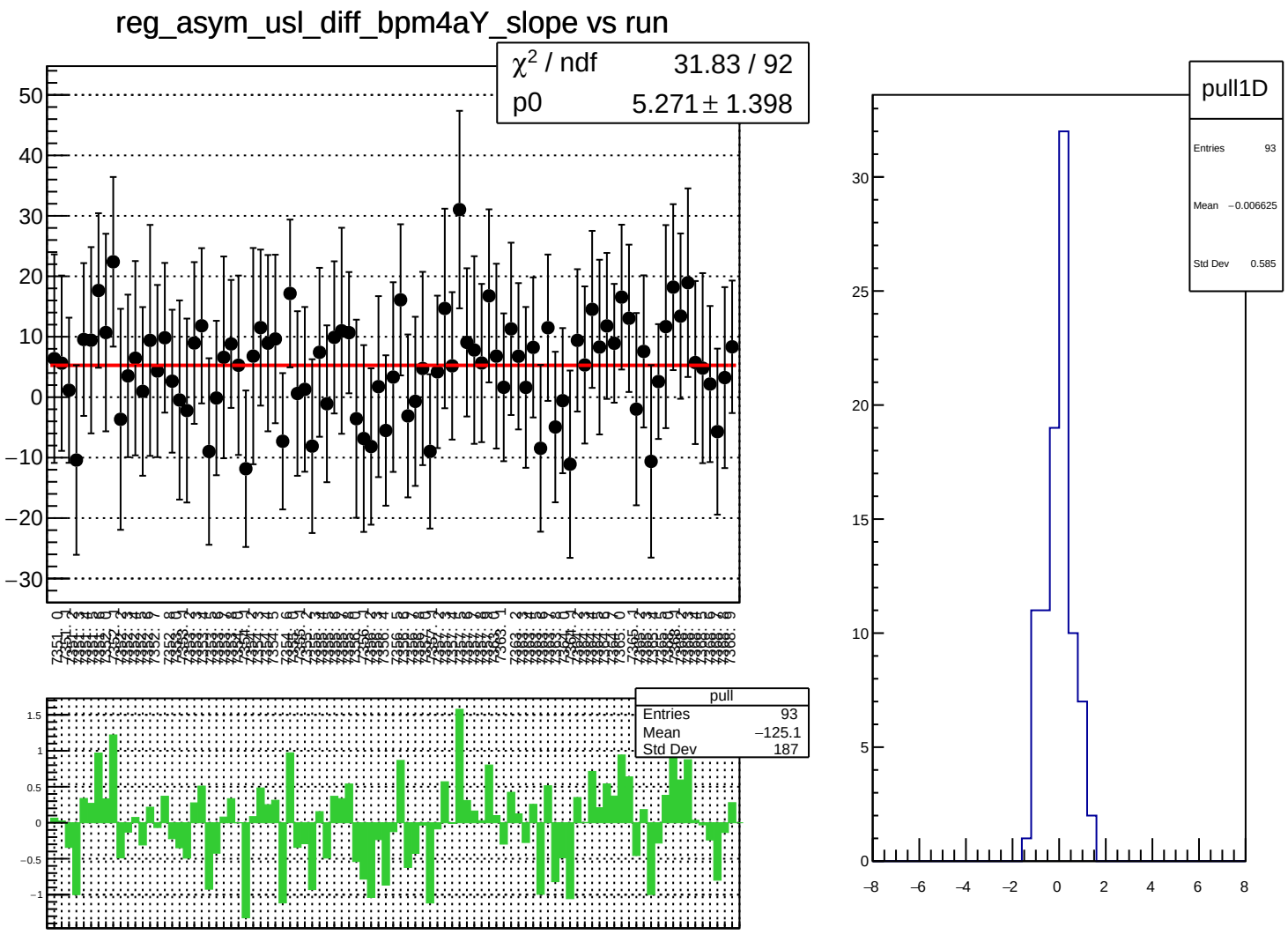

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 1412 / 92
p0 −10.99 ± 0.1842
pull
Entries 93
Mean 185.7
Std Dev 146.9
pull1D
Entries 93
Mean −0.2708
Std Dev 3.071

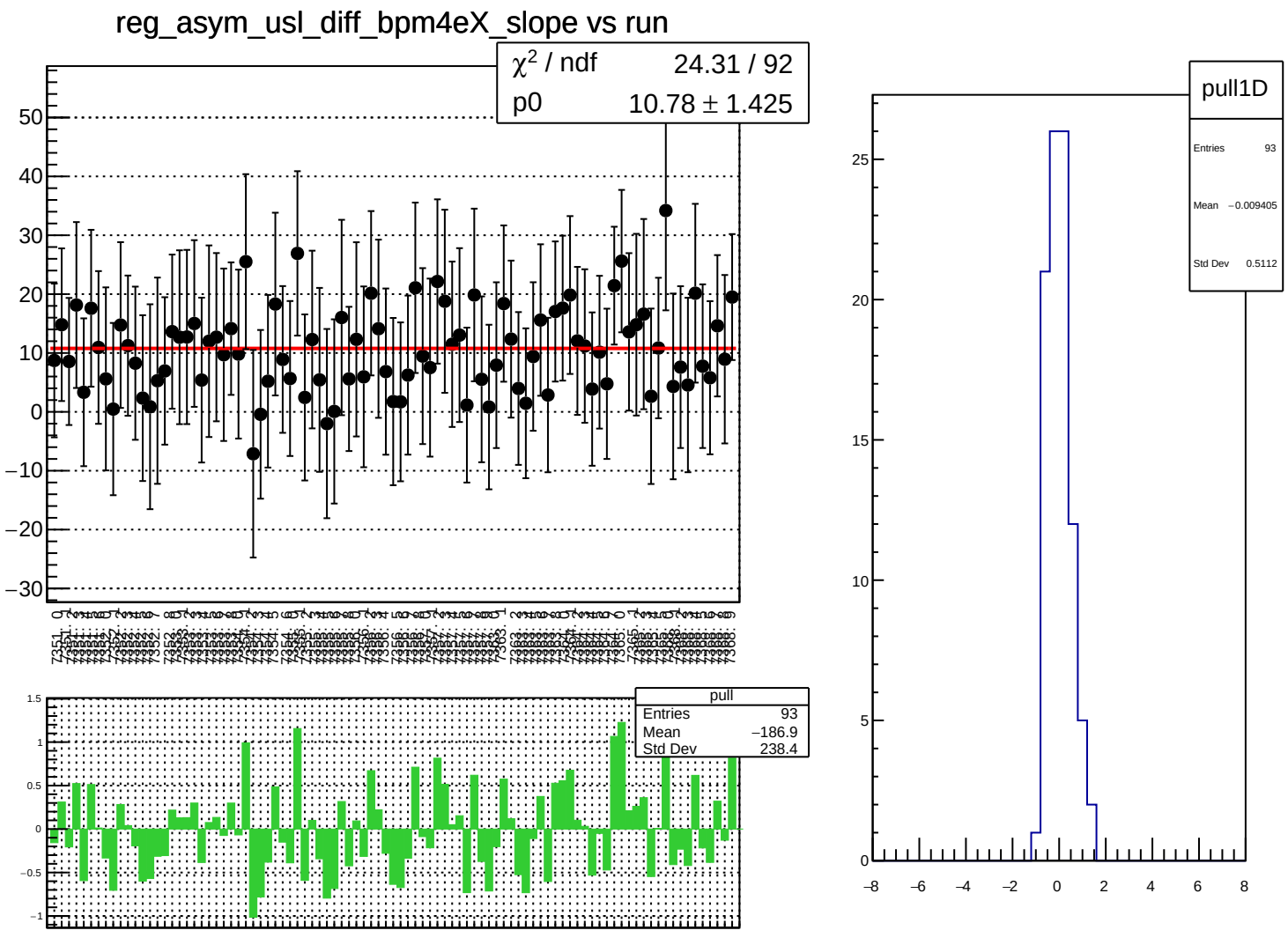

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 781.6 / 92
p0 24.95 ± 0.1926
pull
Entries 93
Mean −189.9
Std Dev 219.6
pull1D
Entries 93
Mean −0.02143
Std Dev 2.481

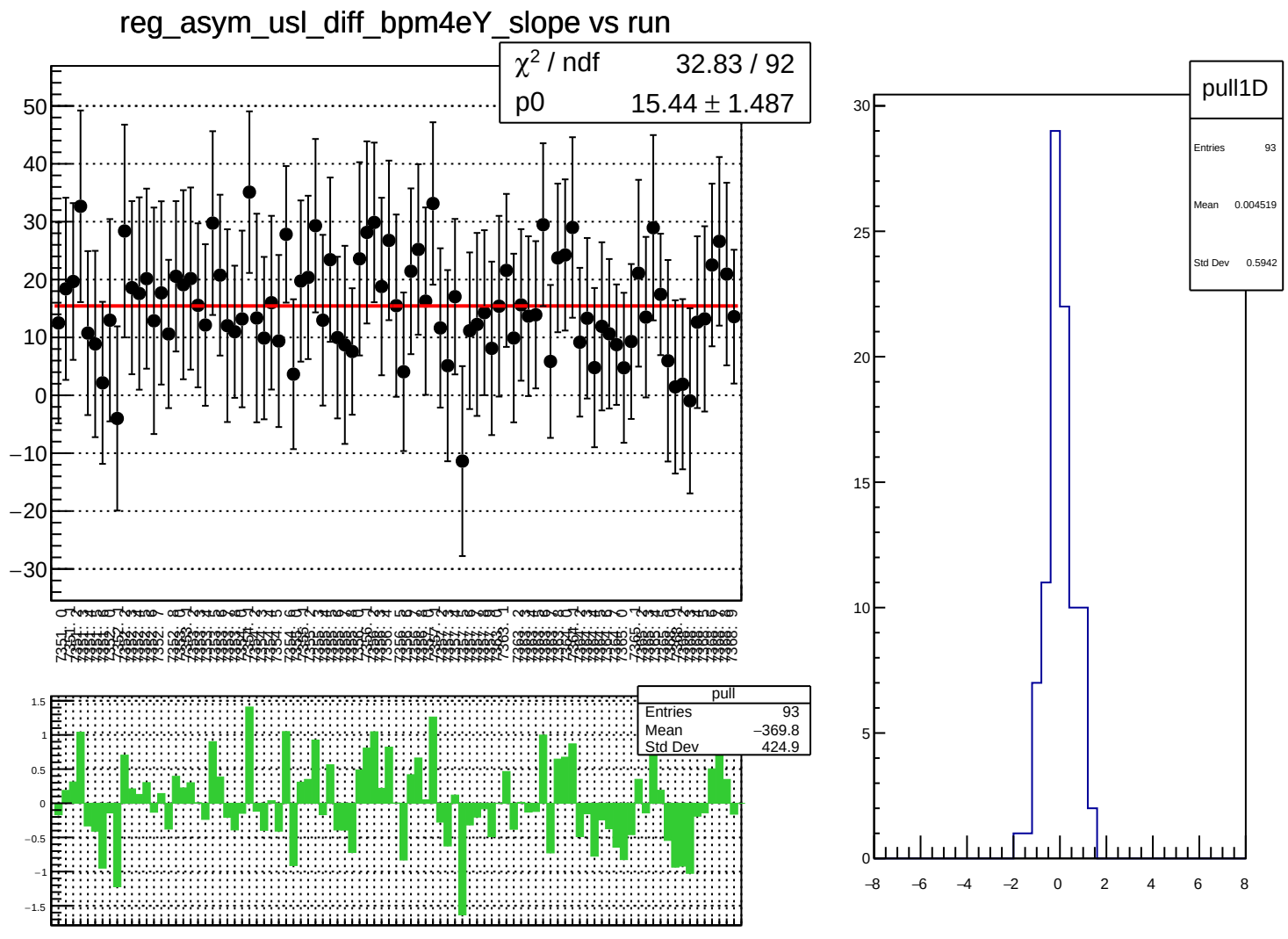

reg_asym_sam8_diff_bpm12X_slope vs run
χ² / ndf 163.7 / 92
p0 −0.06433 ± 0.009065
pull
Entries 93
Mean −765.9
Std Dev 795.8
pull1D
Entries 93
Mean −0.01738
Std Dev 1.327

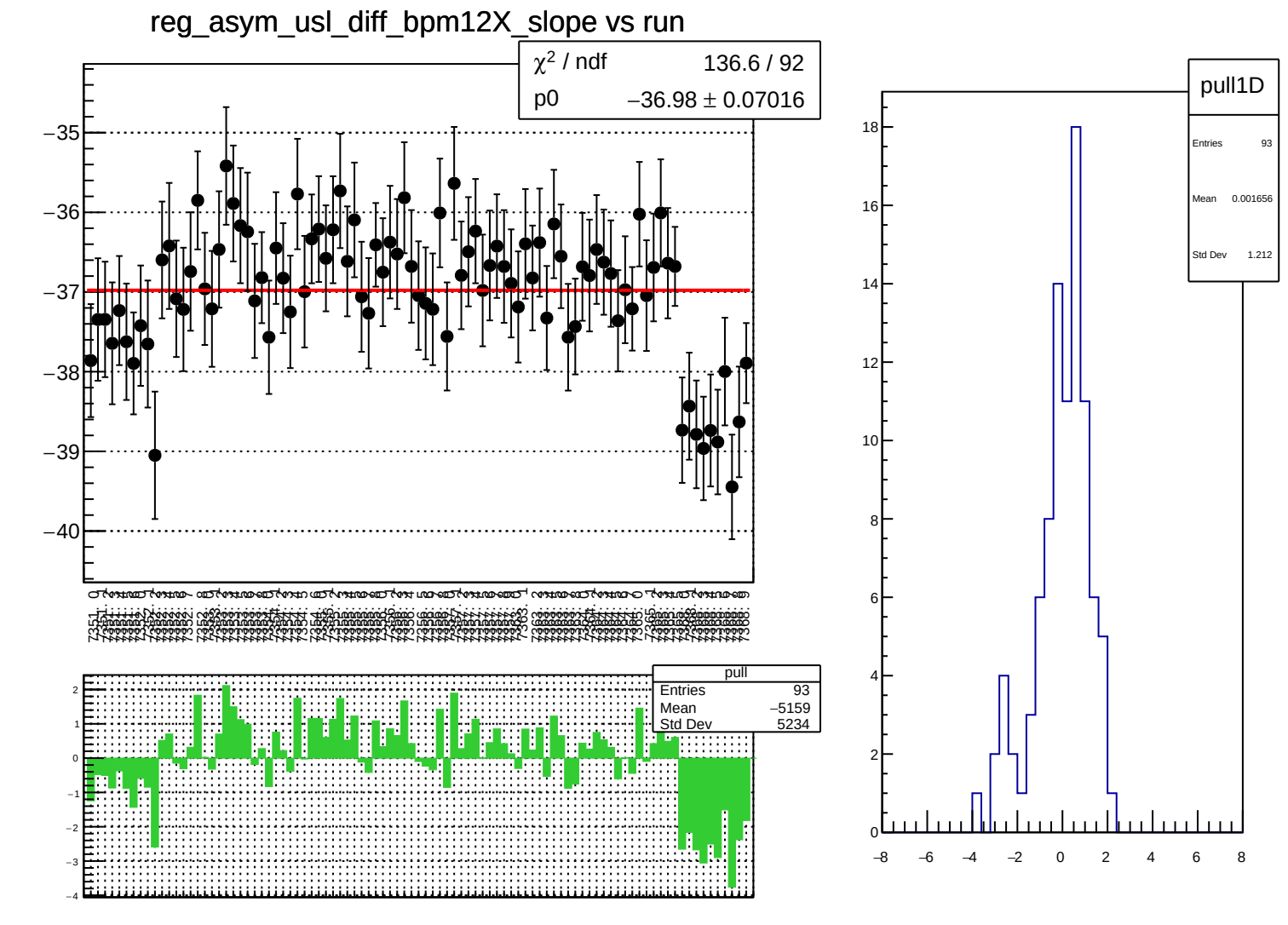

reg_asym_usl_diff_bpm1X_slope vs run
χ² / ndf 23.26 / 92
p0 −69.39 ± 1.432
pull
Entries 93
Mean 50.4
Std Dev 52.75

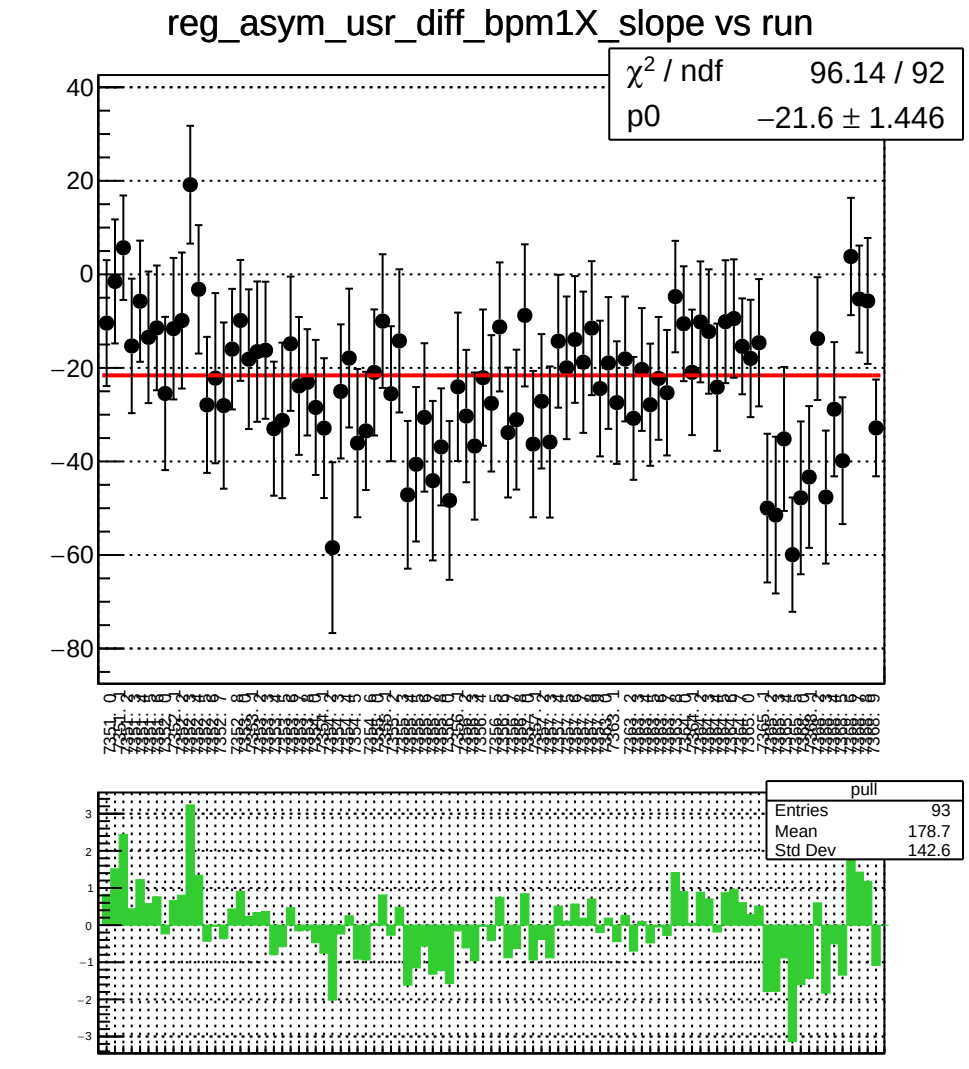

pull1D
Entries 93
Mean 0.007165
Std Dev 0.5

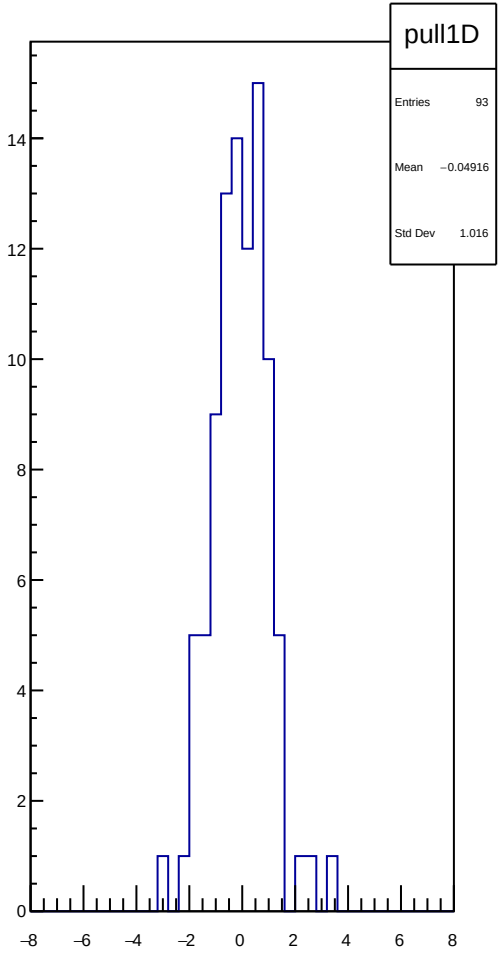

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 31.83 / 92
p0 5.271 ± 1.398
pull
Entries 93
Mean −125.1
Std Dev 187
pull1D
Entries 93
Mean −0.006625
Std Dev 0.585

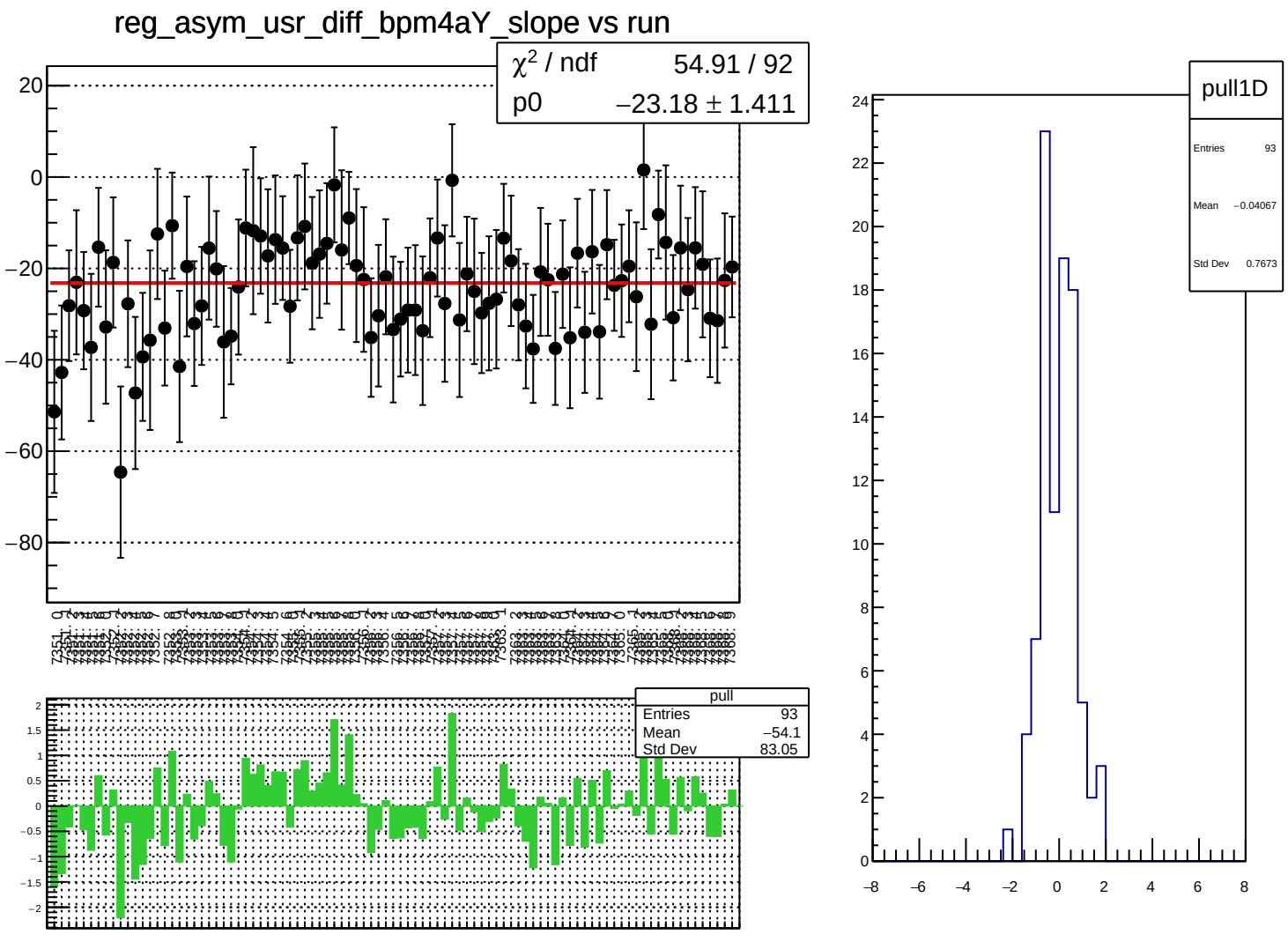

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 24.31 / 92
p0 10.78 ± 1.425
pull
Entries 93
Mean −186.9
Std Dev 238.4
pull1D
Entries 93
Mean −0.009405
Std Dev 0.5112

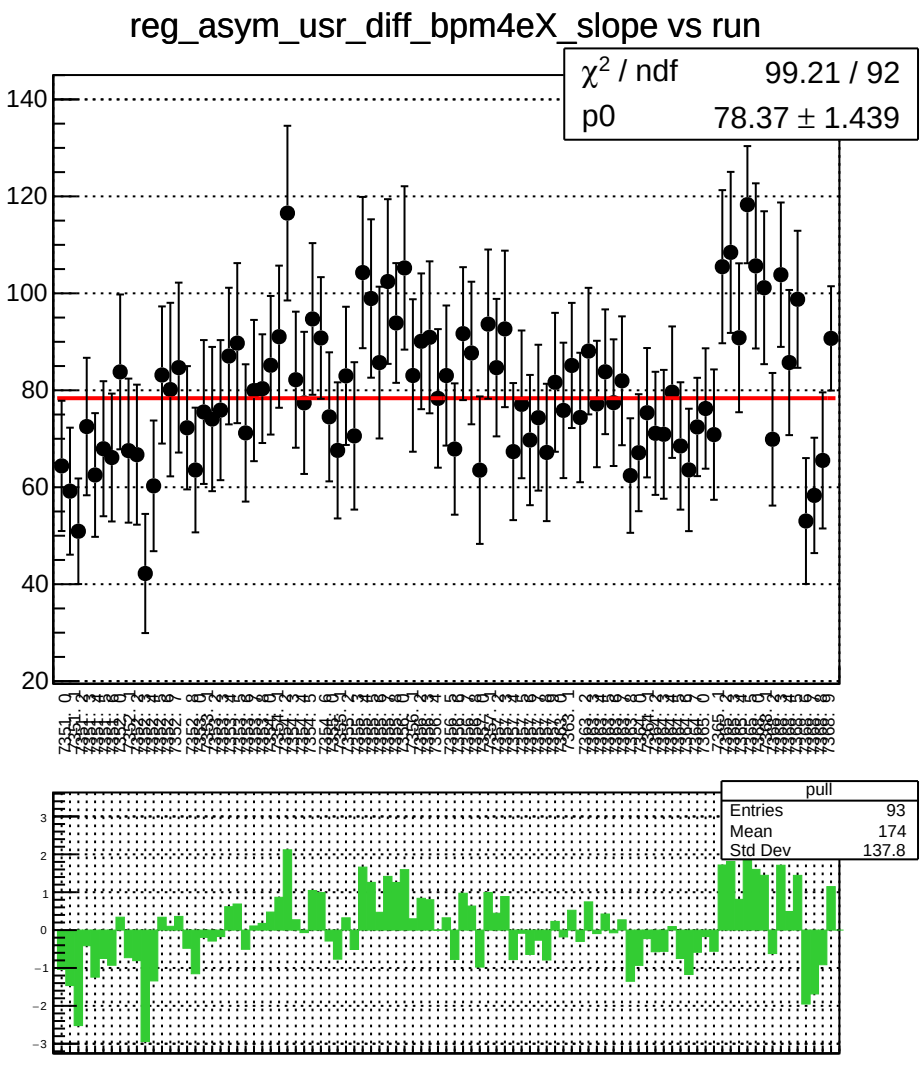

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 32.83 / 92
p0 15.44 ± 1.487
pull
Entries 93
Mean −369.8
Std Dev 424.9
pull1D
Entries 93
Mean 0.004519
Std Dev 0.5942

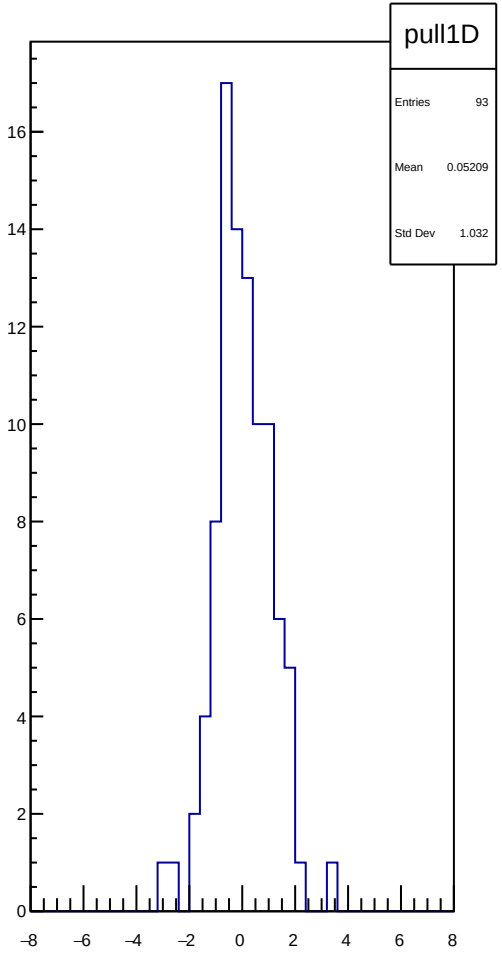

reg_asym_usl_diff_bpm12X_slope vs run
χ² / ndf 136.6 / 92
p0 −36.98 ± 0.07016
pull
Entries 93
Mean −5159
Std Dev 5234
pull1D
Entries 93
Mean 0.001656
Std Dev 1.212

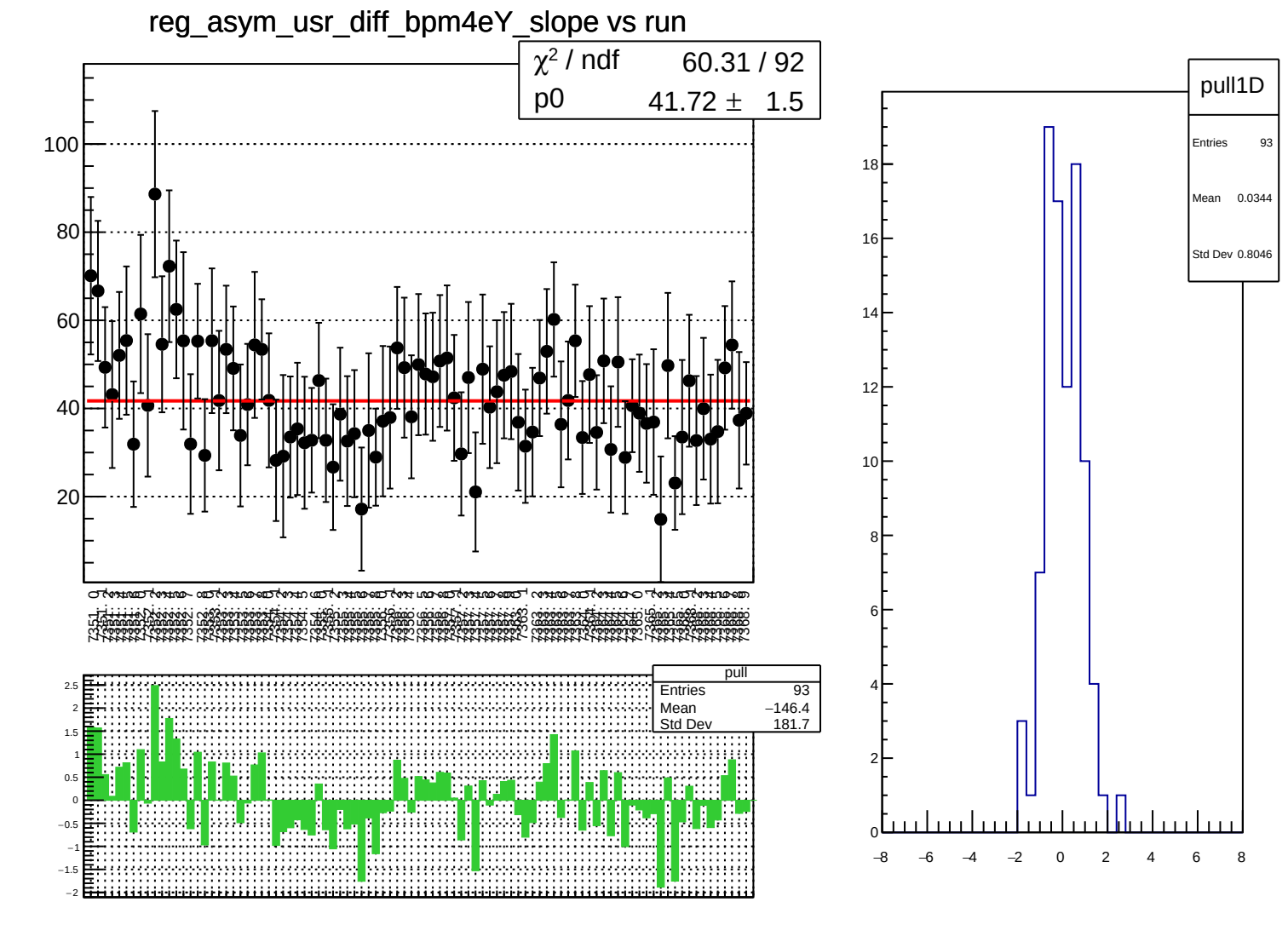

reg_asym_usr_diff_bpm1X_slope vs run
χ² / ndf 96.14 / 92
p0 −21.6 ± 1.446
pull
Entries 93
Mean 178.7
Std Dev 142.6

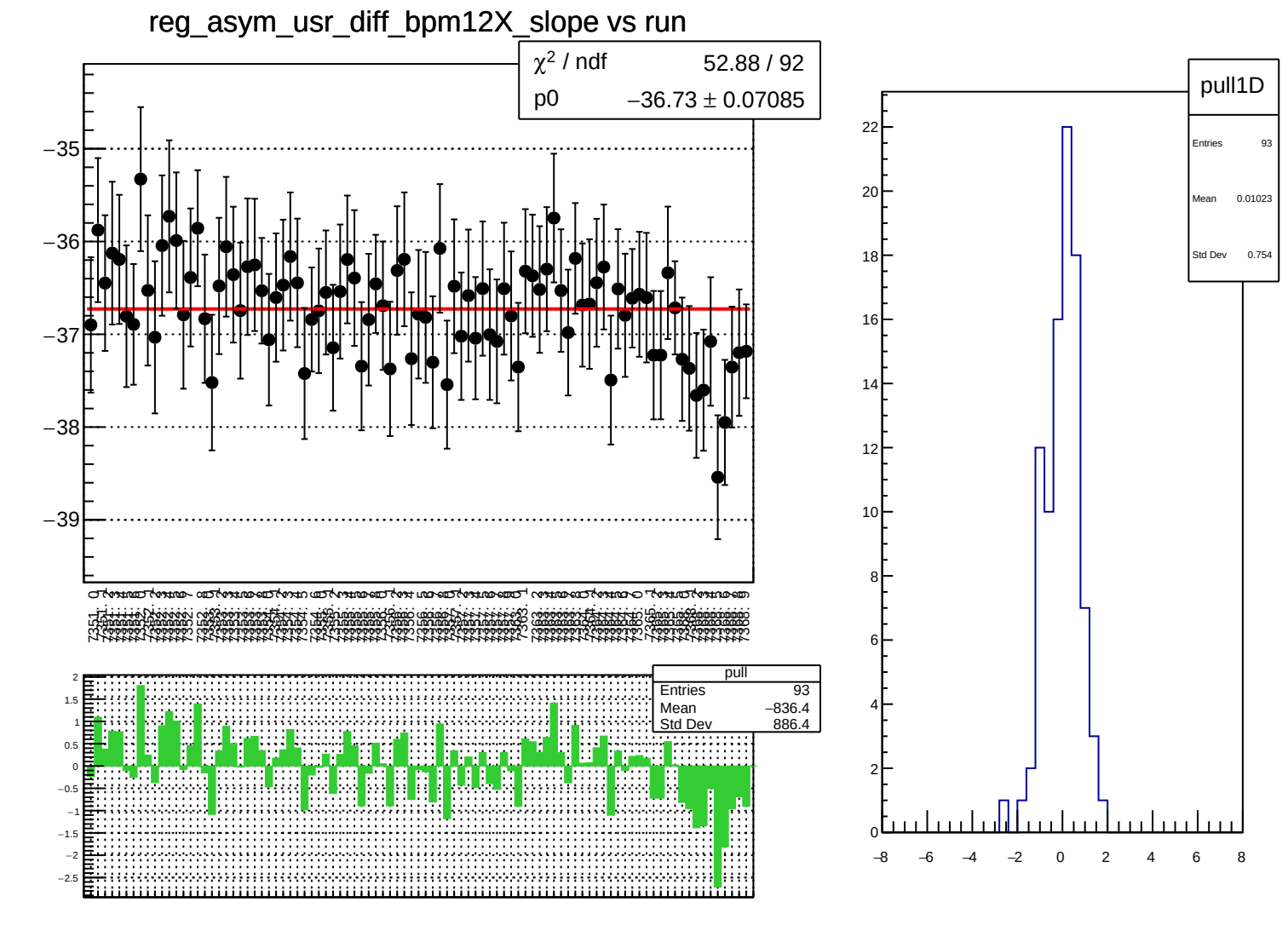

pull1D
Entries 93
Mean −0.04916
Std Dev 1.016

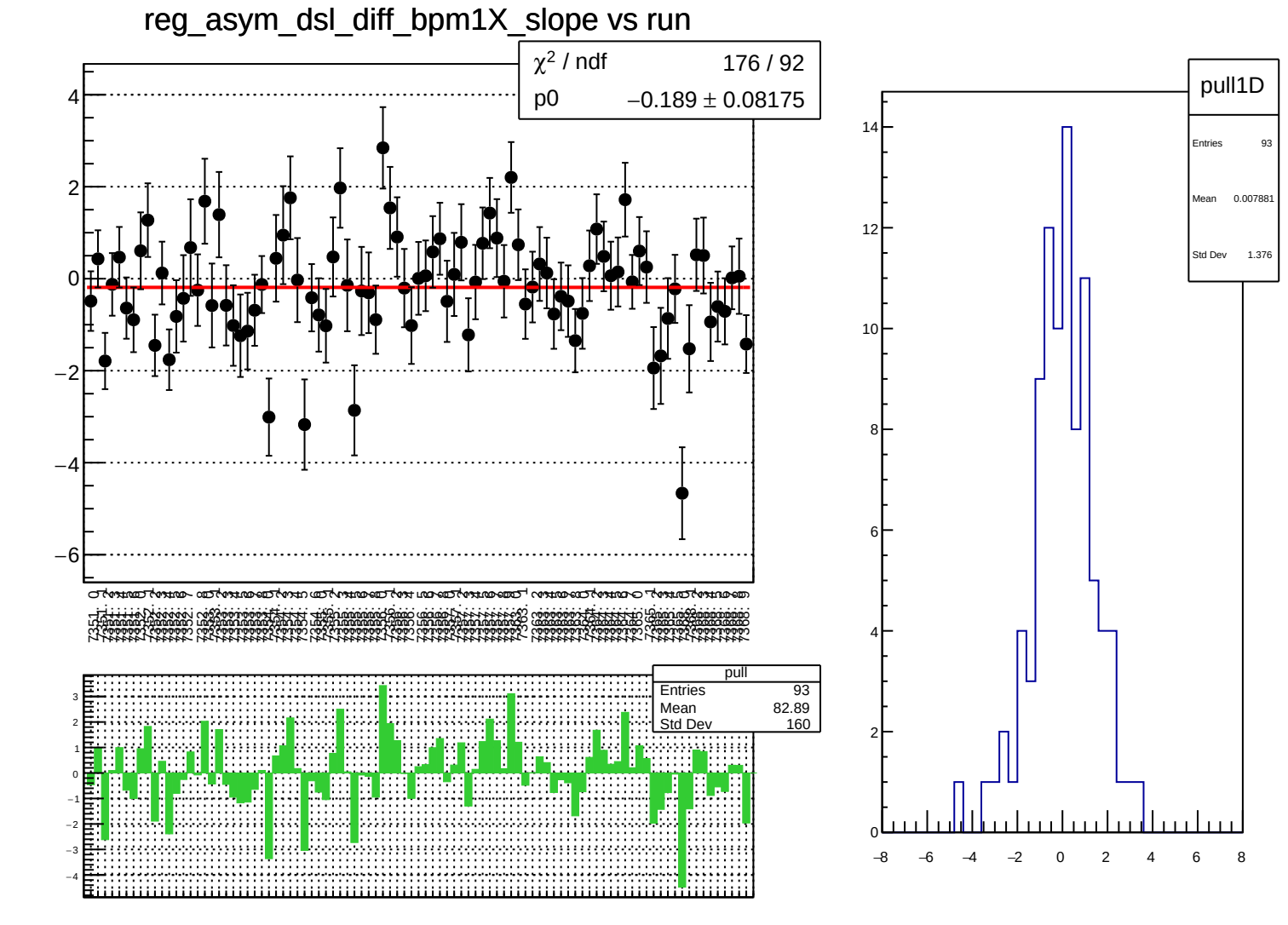

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 54.91 / 92
p0 −23.18 ± 1.411
pull
Entries 93
Mean −54.1
Std Dev 83.05
pull1D
Entries 93
Mean −0.04067
Std Dev 0.7673

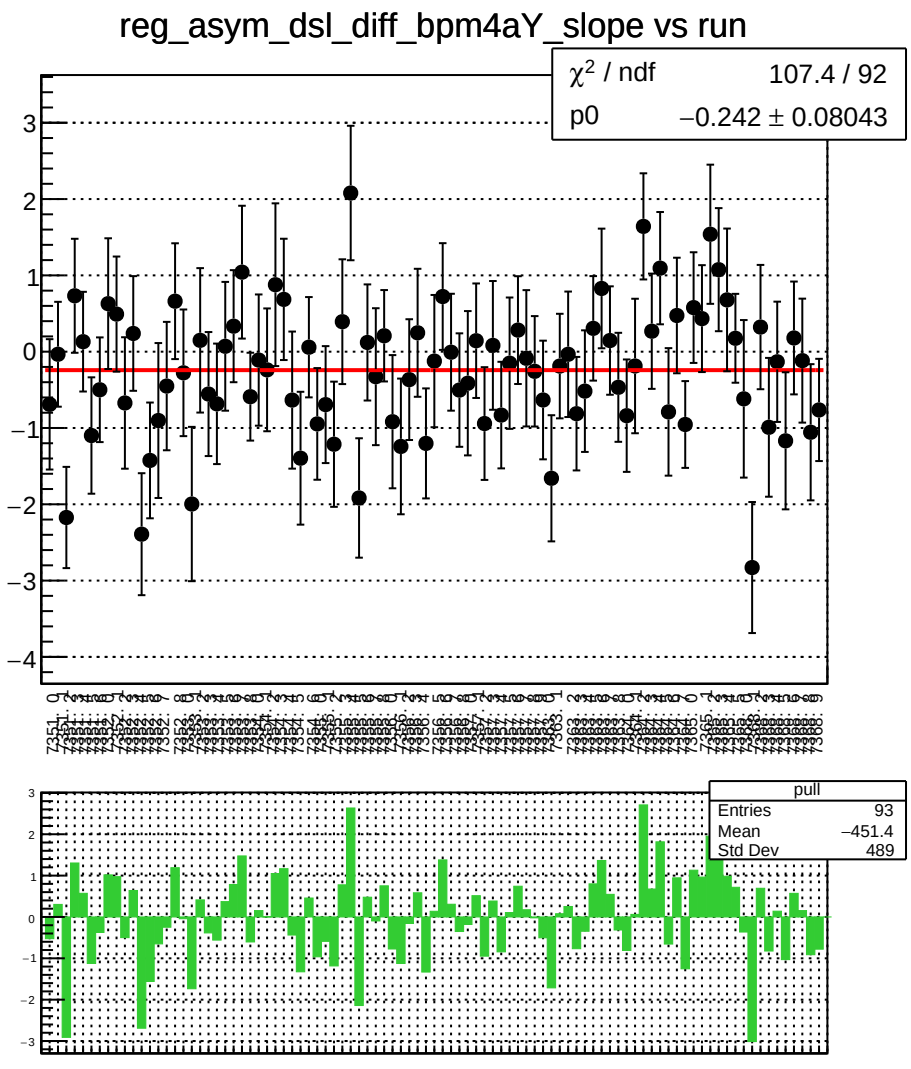

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 99.21 / 92
p0 78.37 ± 1.439
pull
Entries 93
Mean 174
Std Dev 137.8

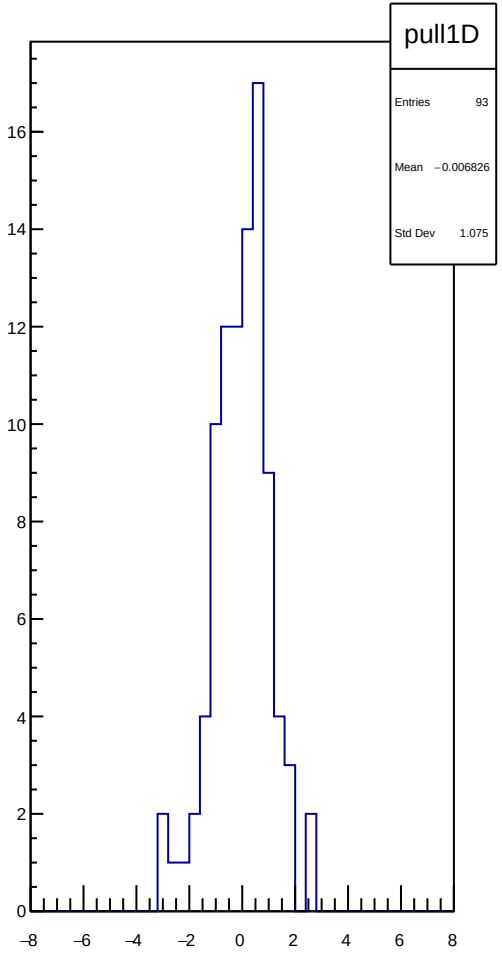

pull1D
Entries 93
Mean 0.05209
Std Dev 1.032

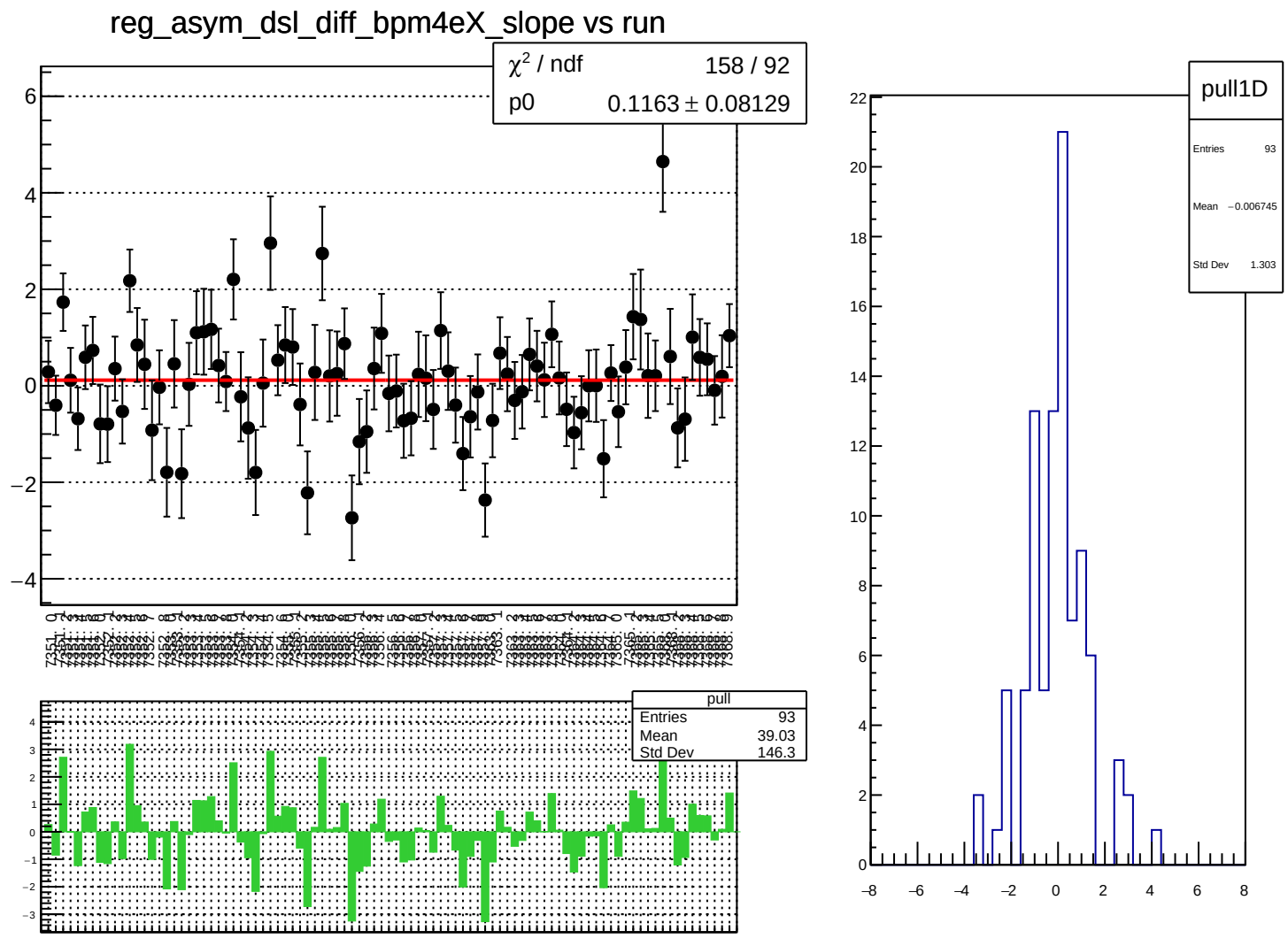

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 60.31 / 92
p0 41.72 ± 1.5
pull
Entries 93
Mean −146.4
Std Dev 181.7
pull1D
Entries 93
Mean 0.0344
Std Dev 0.8046

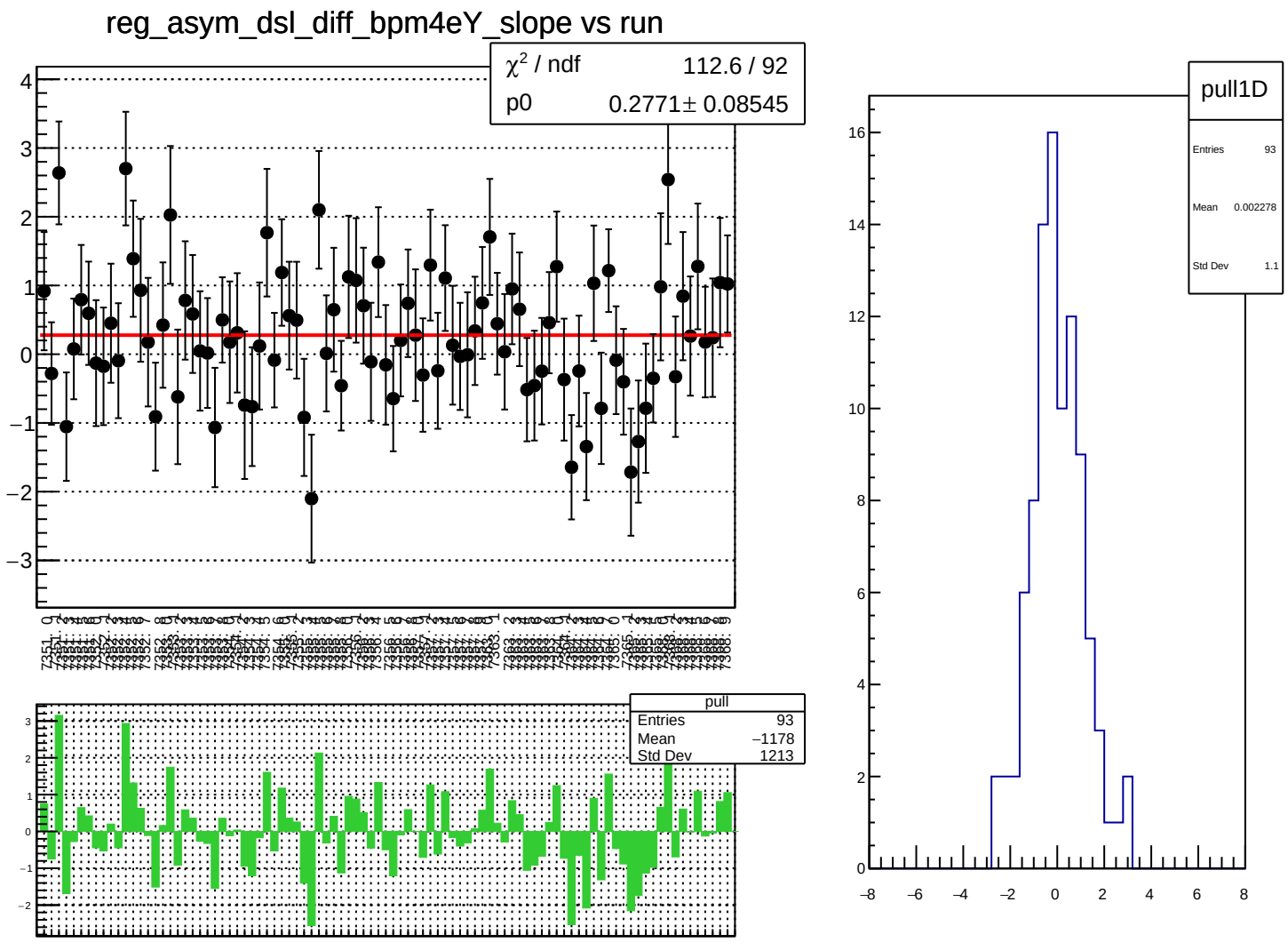

reg_asym_usr_diff_bpm12X_slope vs run
χ² / ndf 52.88 / 92
p0 −36.73 ± 0.07085
pull
Entries 93
Mean −836.4
Std Dev 886.4
pull1D
Entries 93
Mean 0.01023
Std Dev 0.754

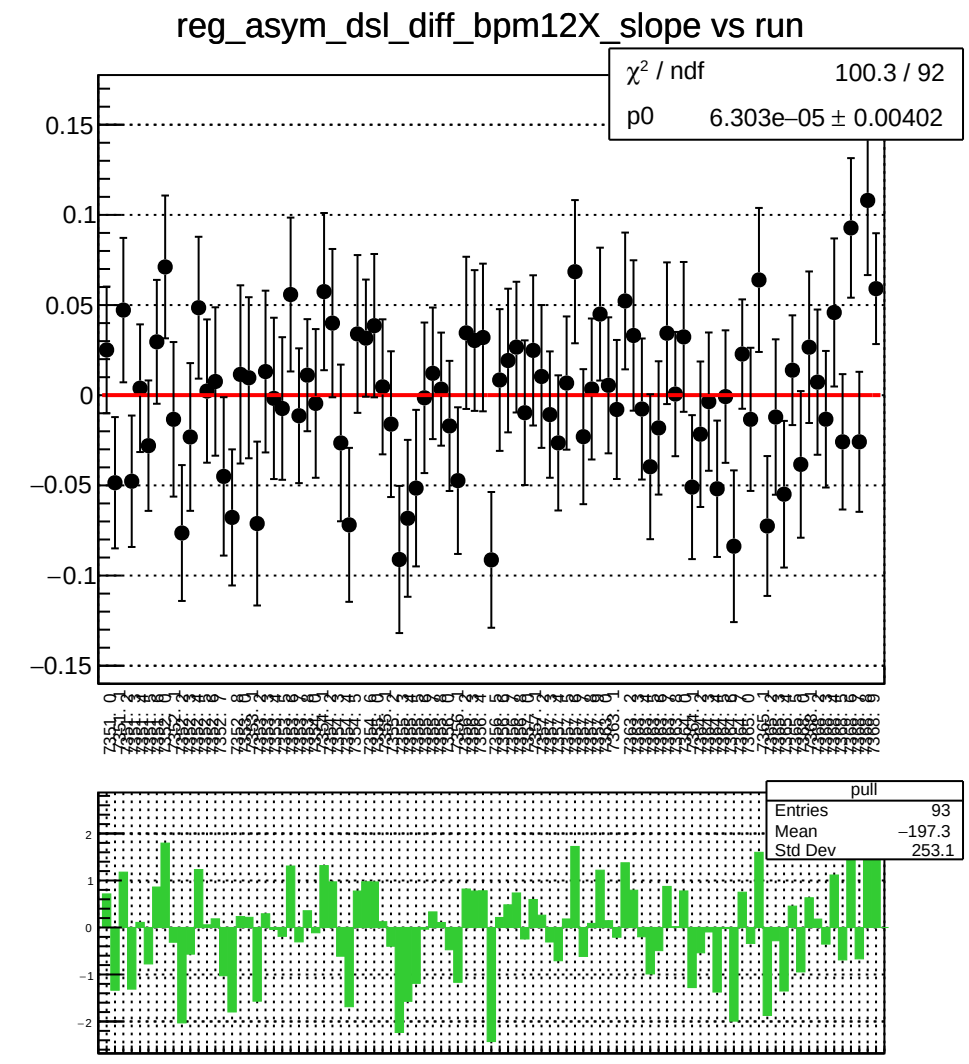

reg_asym_dsl_diff_bpm1X_slope vs run
χ² / ndf 176 / 92
p0 −0.189 ± 0.08175
pull
Entries 93
Mean 82.89
Std Dev 160
pull1D
Entries 93
Mean 0.007881
Std Dev 1.376

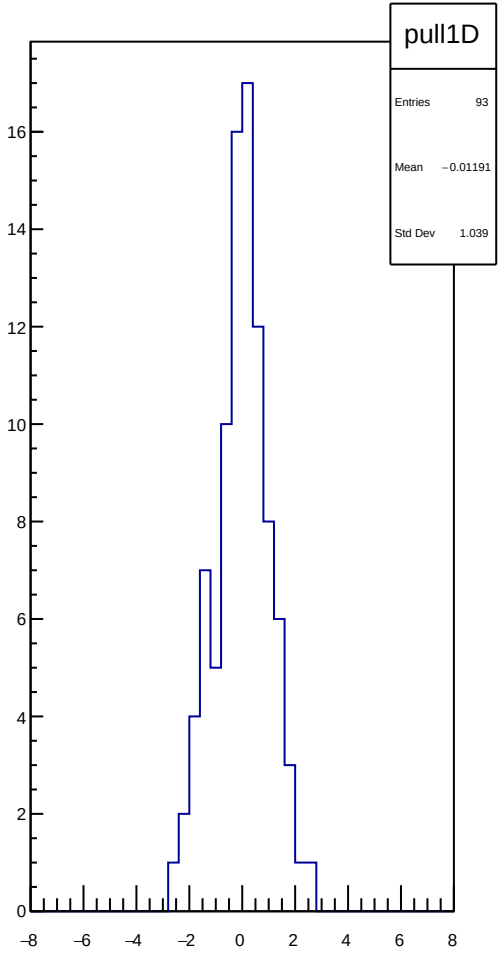

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 107.4 / 92
p0 −0.242 ± 0.08043
pull
Entries 93
Mean −451.4
Std Dev 489

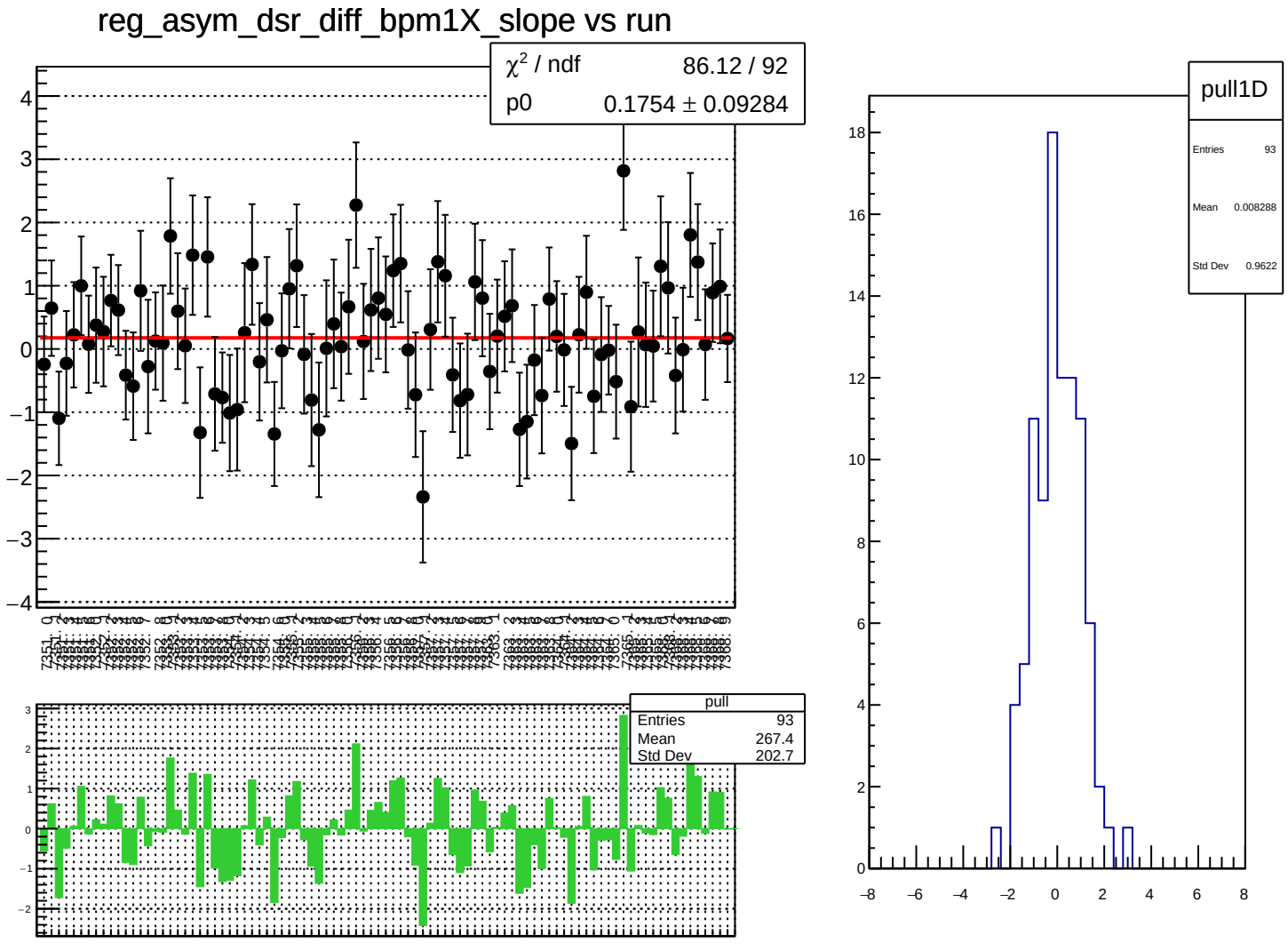

pull1D
Entries 93
Mean −0.006826
Std Dev 1.075

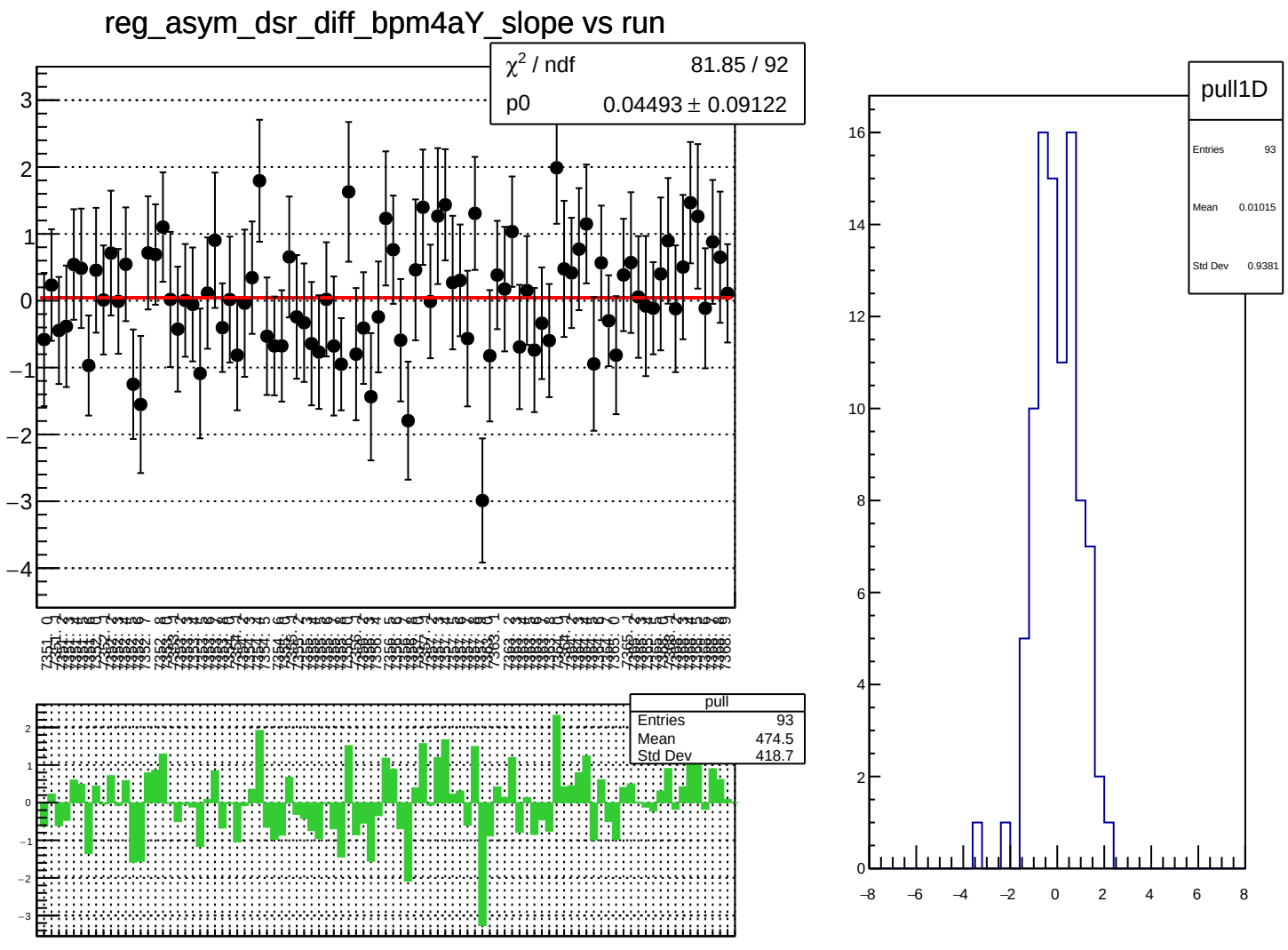

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 158 / 92
p0 0.1163 ± 0.08129
pull
Entries 93
Mean 39.03
Std Dev 146.3
pull1D
Entries 93
Mean −0.006745
Std Dev 1.303

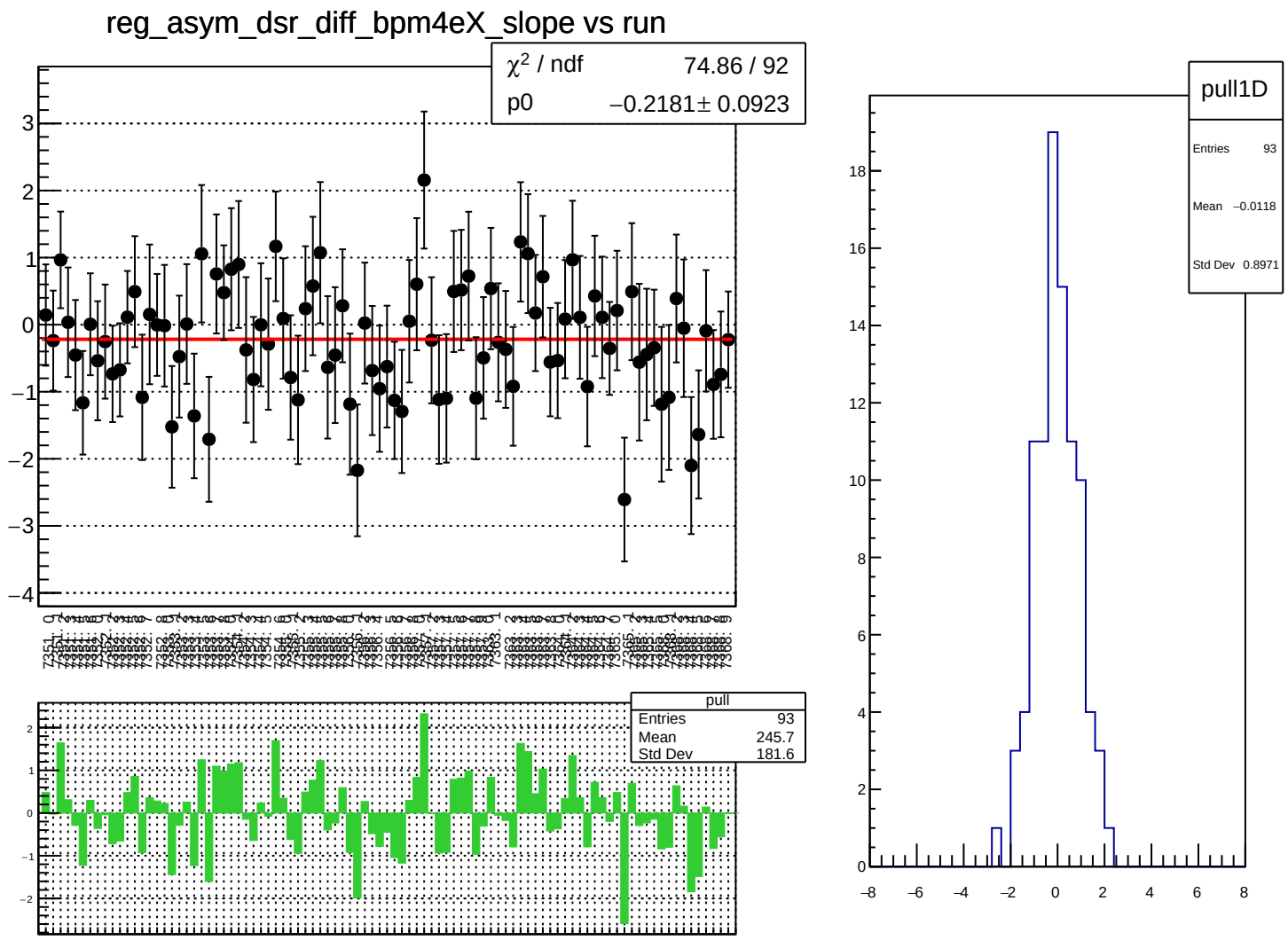

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 112.6 / 92
p0 0.2771± 0.08545
pull
Entries 93
Mean −1178
Std Dev 1213
pull1D
Entries 93
Mean 0.002278
Std Dev 1.1

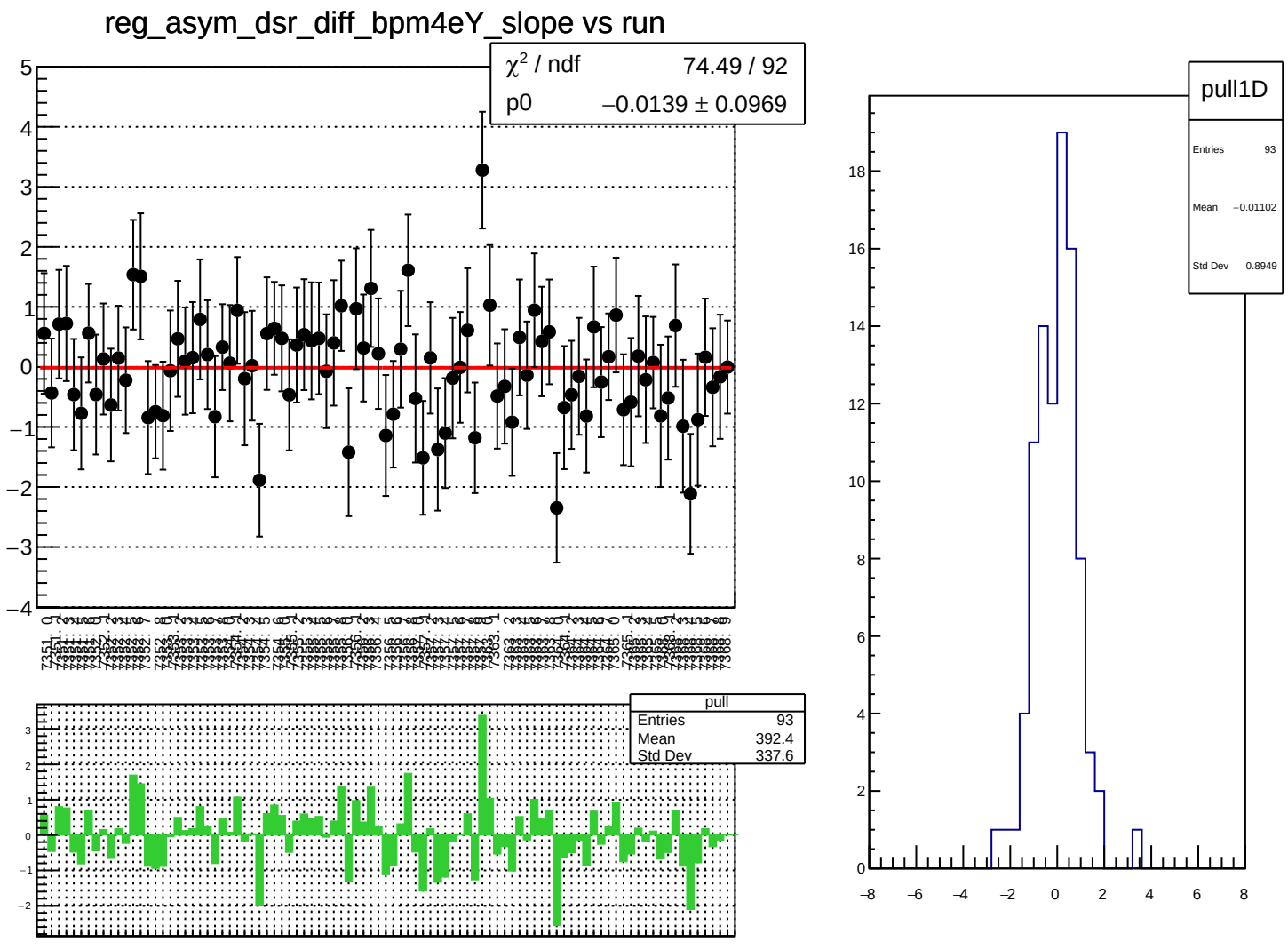

reg_asym_dsl_diff_bpm12X_slope vs run
χ² / ndf 100.3 / 92
p0 6.303e−05 ± 0.00402
pull
Entries 93
Mean −197.3
Std Dev 253.1

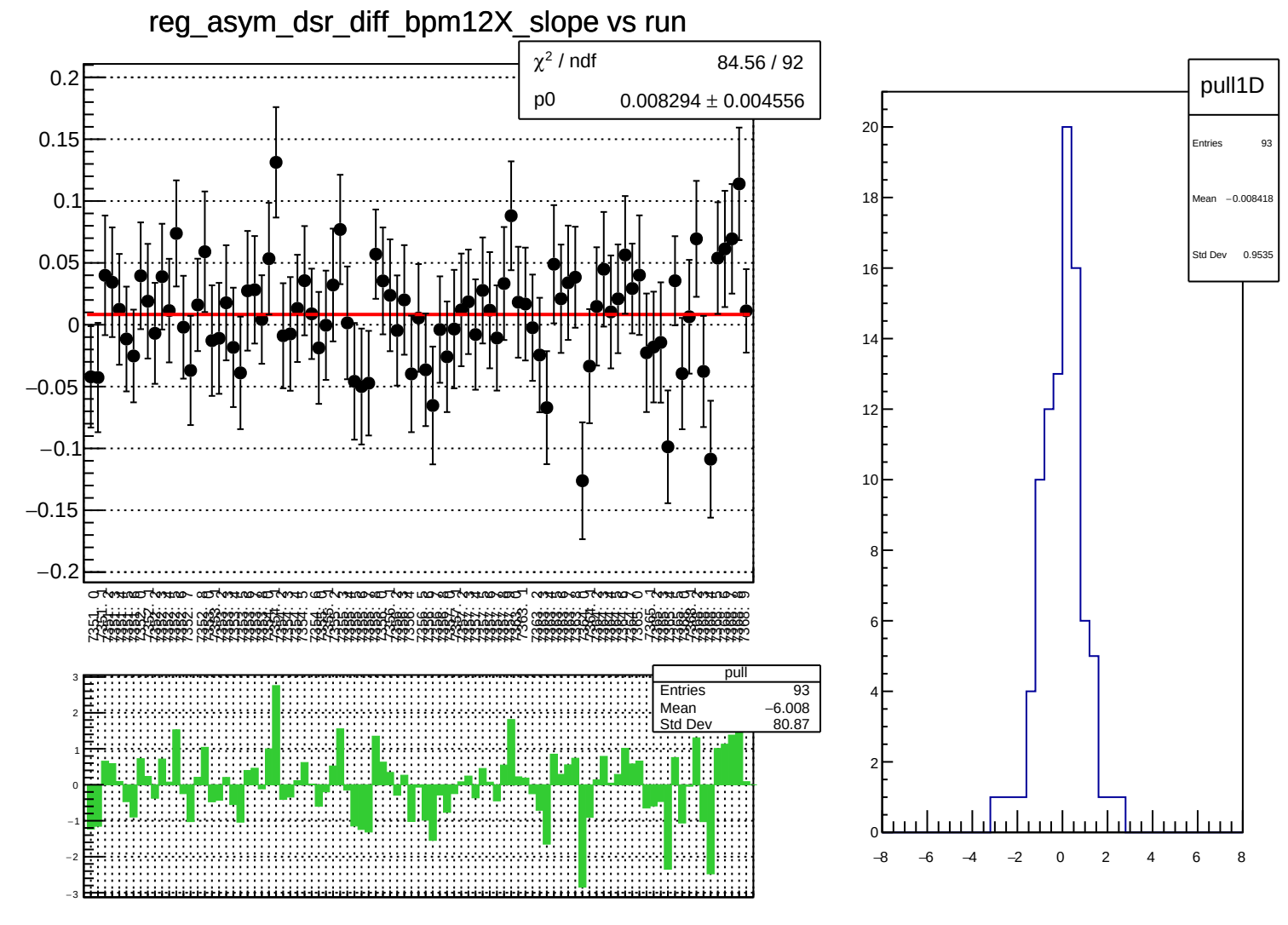

pull1D
Entries 93
Mean −0.01191
Std Dev 1.039

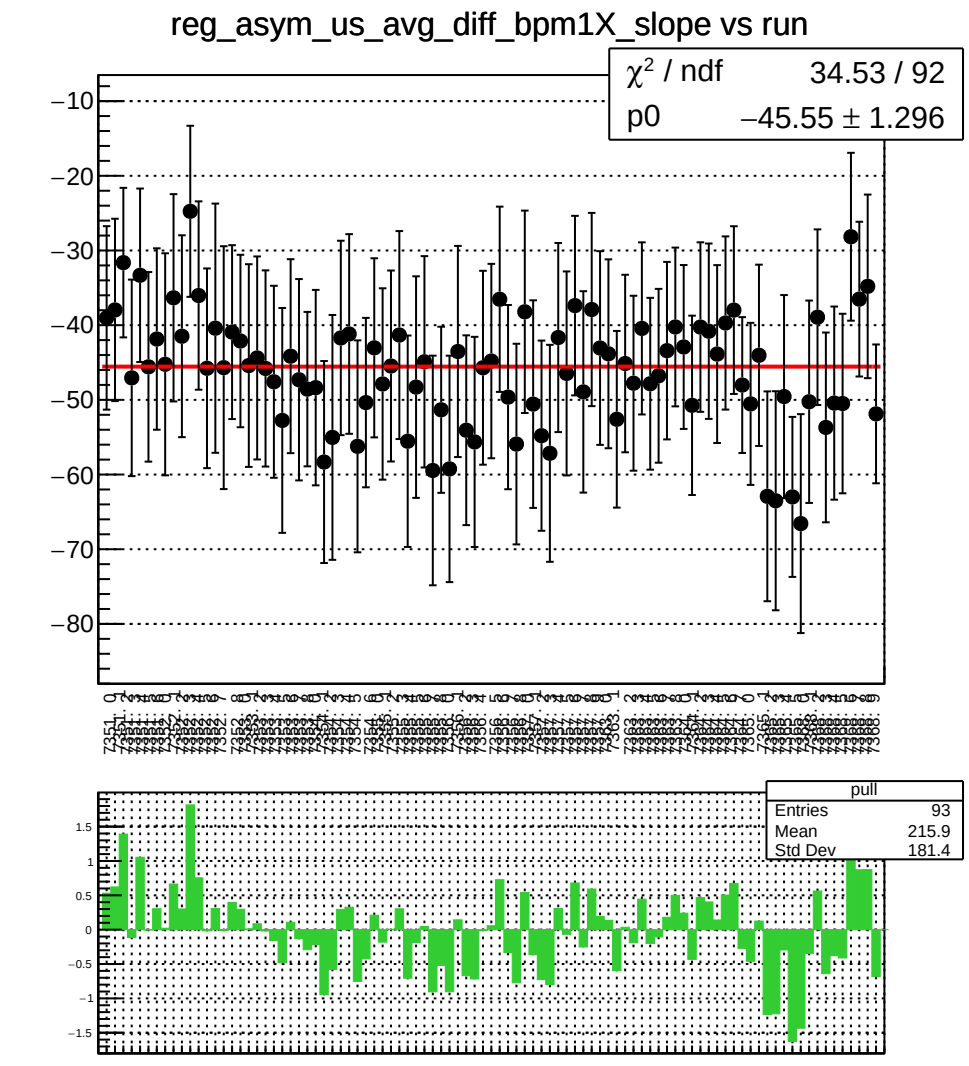

reg_asym_dsr_diff_bpm1X_slope vs run
χ² / ndf 86.12 / 92
p0 0.1754 ± 0.09284
pull
Entries 93
Mean 267.4
Std Dev 202.7
pull1D
Entries 93
Mean 0.008288
Std Dev 0.9622

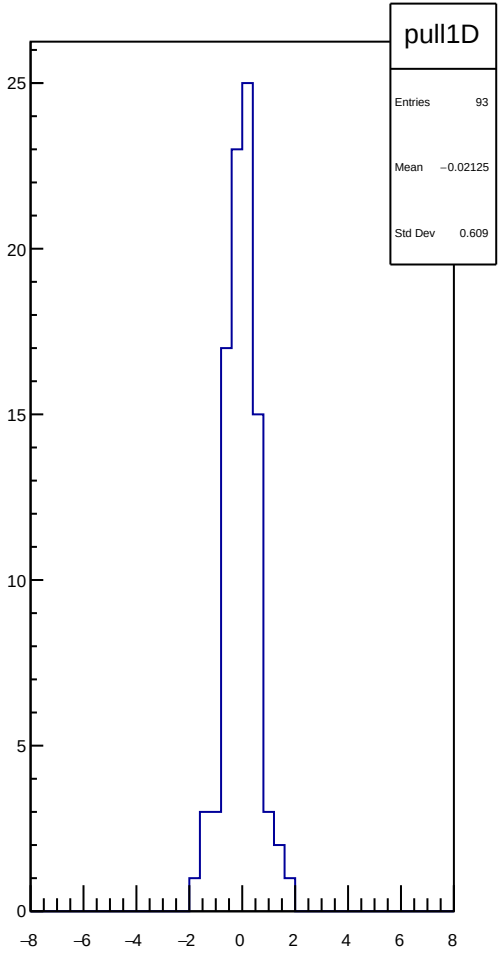

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 81.85 / 92
p0 0.04493 ± 0.09122
pull
Entries 93
Mean 474.5
Std Dev 418.7
pull1D
Entries 93
Mean 0.01015
Std Dev 0.9381

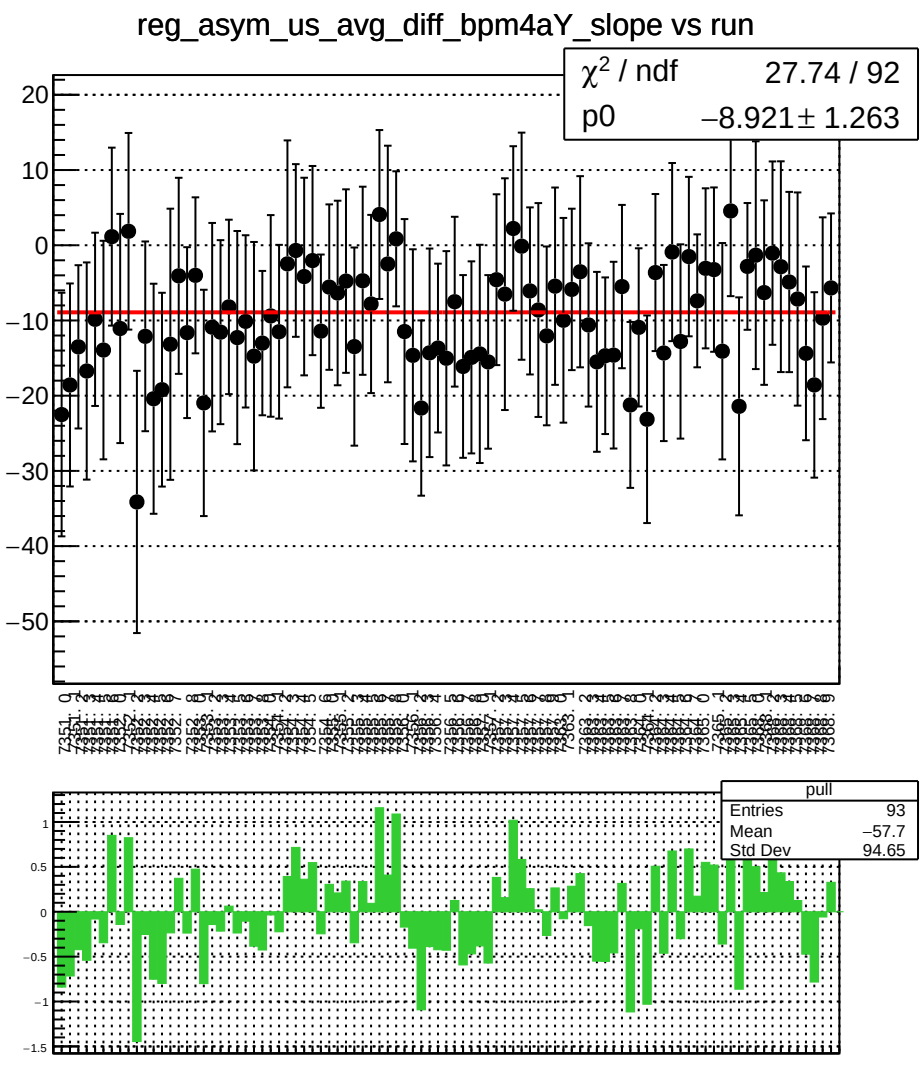

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 74.86 / 92
p0 −0.2181± 0.0923
pull
Entries 93
Mean 245.7
Std Dev 181.6
pull1D
Entries 93
Mean −0.0118
Std Dev 0.8971

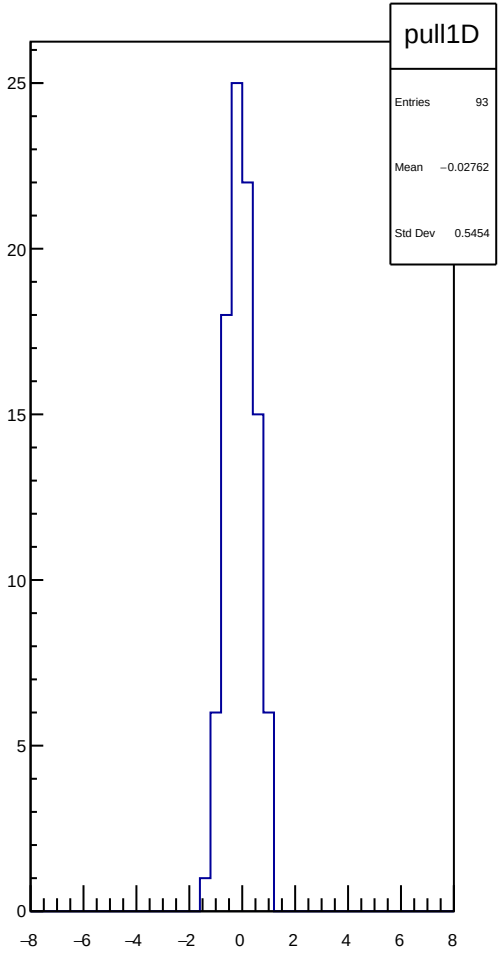

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 74.49 / 92
p0 −0.0139 ± 0.0969
pull
Entries 93
Mean 392.4
Std Dev 337.6
pull1D
Entries 93
Mean −0.01102
Std Dev 0.8949

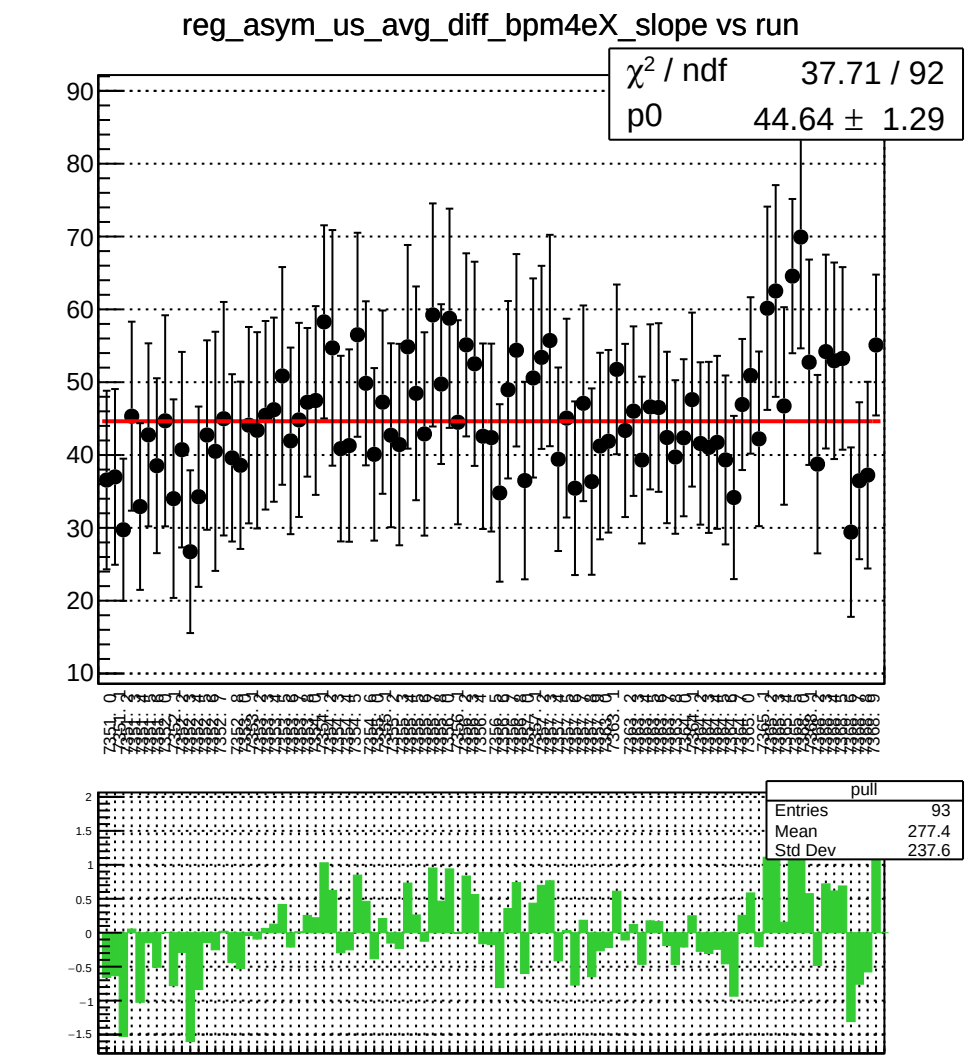

reg_asym_dsr_diff_bpm12X_slope vs run
χ² / ndf 84.56 / 92
p0 0.008294 ± 0.004556
pull
Entries 93
Mean −6.008
Std Dev 80.87
pull1D
Entries 93
Mean −0.008418
Std Dev 0.9535

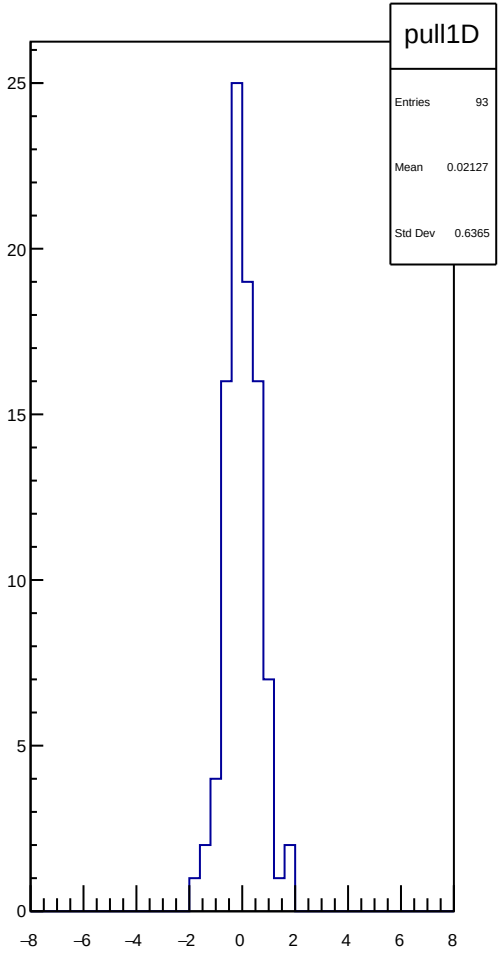

reg_asym_us_avg_diff_bpm1X_slope vs run
χ² / ndf 34.53 / 92
p0 −45.55 ± 1.296
pull
Entries 93
Mean 215.9
Std Dev 181.4

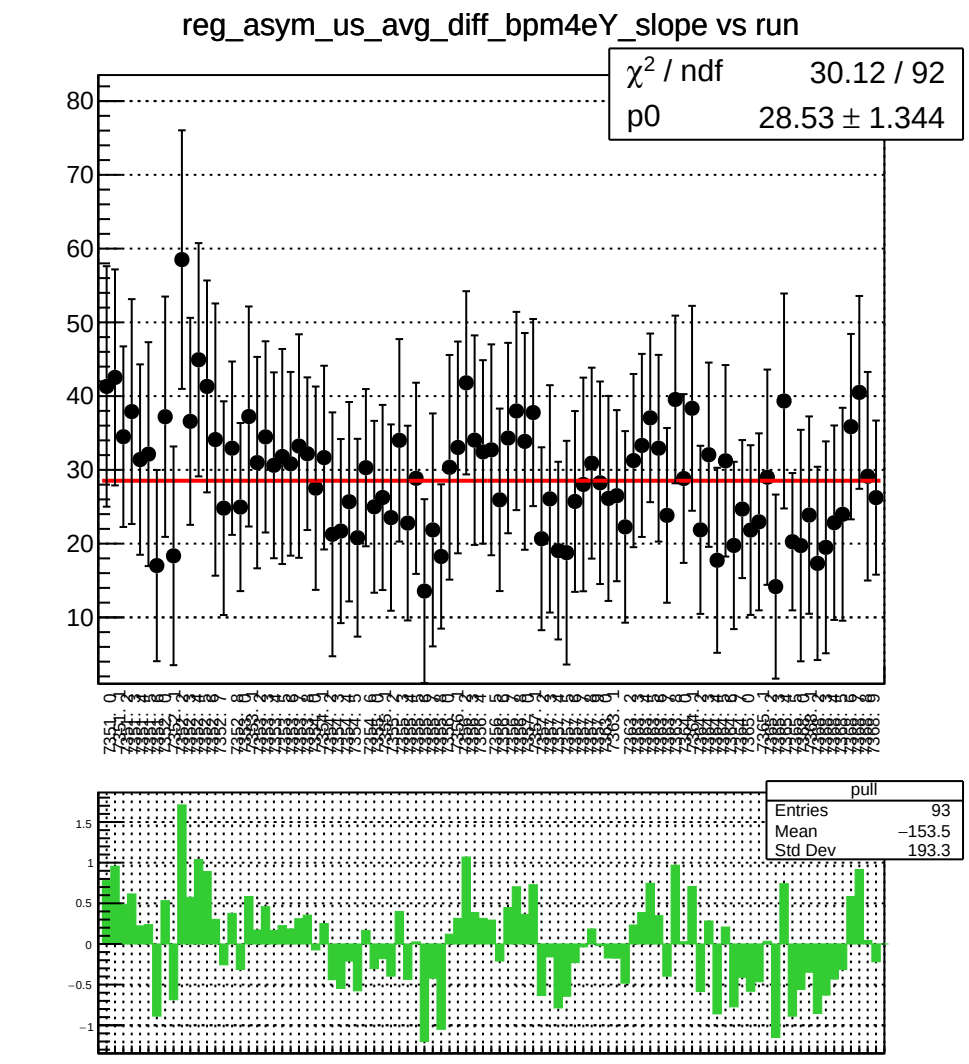

pull1D
Entries 93
Mean −0.02125
Std Dev 0.609

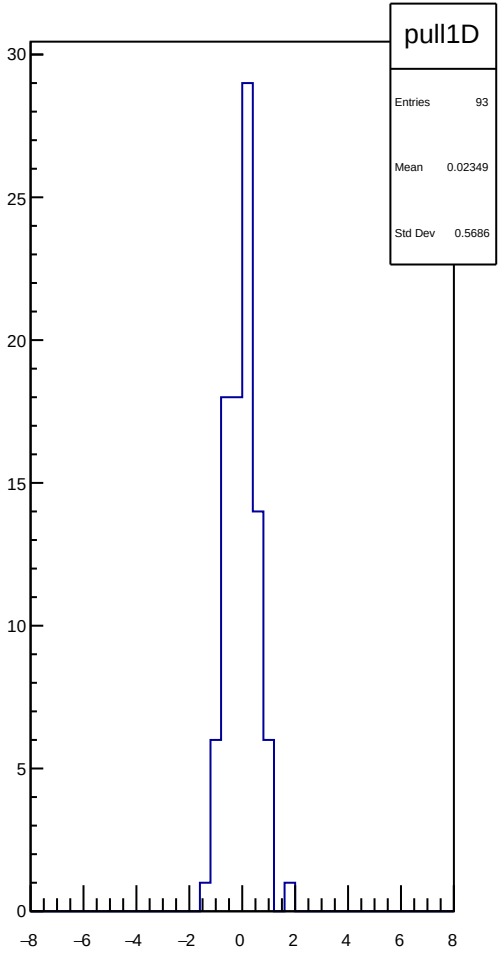

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 27.74 / 92
p0 −8.921 ± 1.263
pull
Entries 93
Mean −57.7
Std Dev 94.65

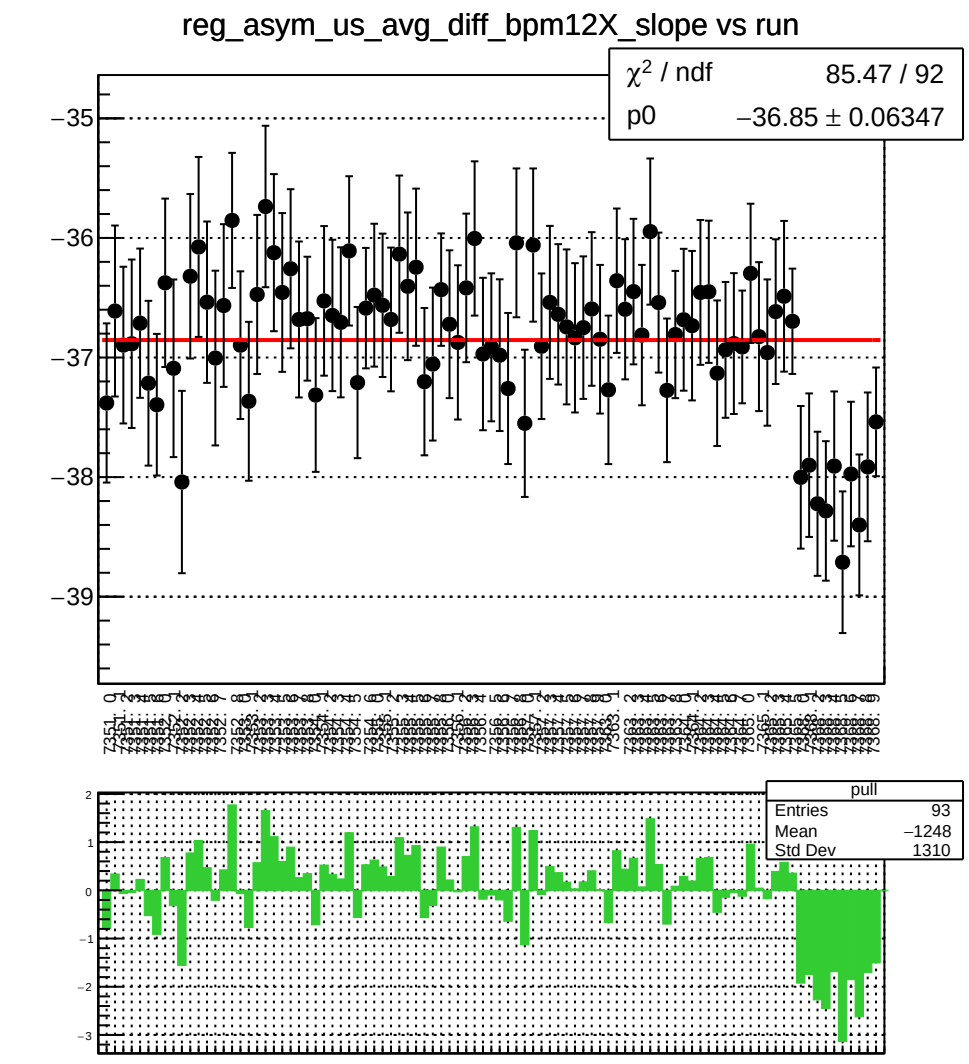

pull1D
Entries 93
Mean −0.02762
Std Dev 0.5454

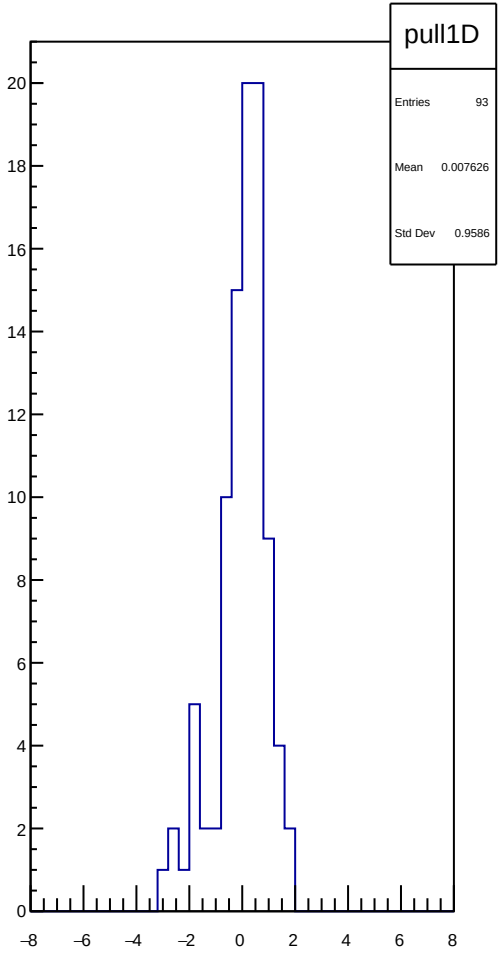

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 37.71 / 92
p0 44.64 ± 1.29
pull
Entries 93
Mean 277.4
Std Dev 237.6

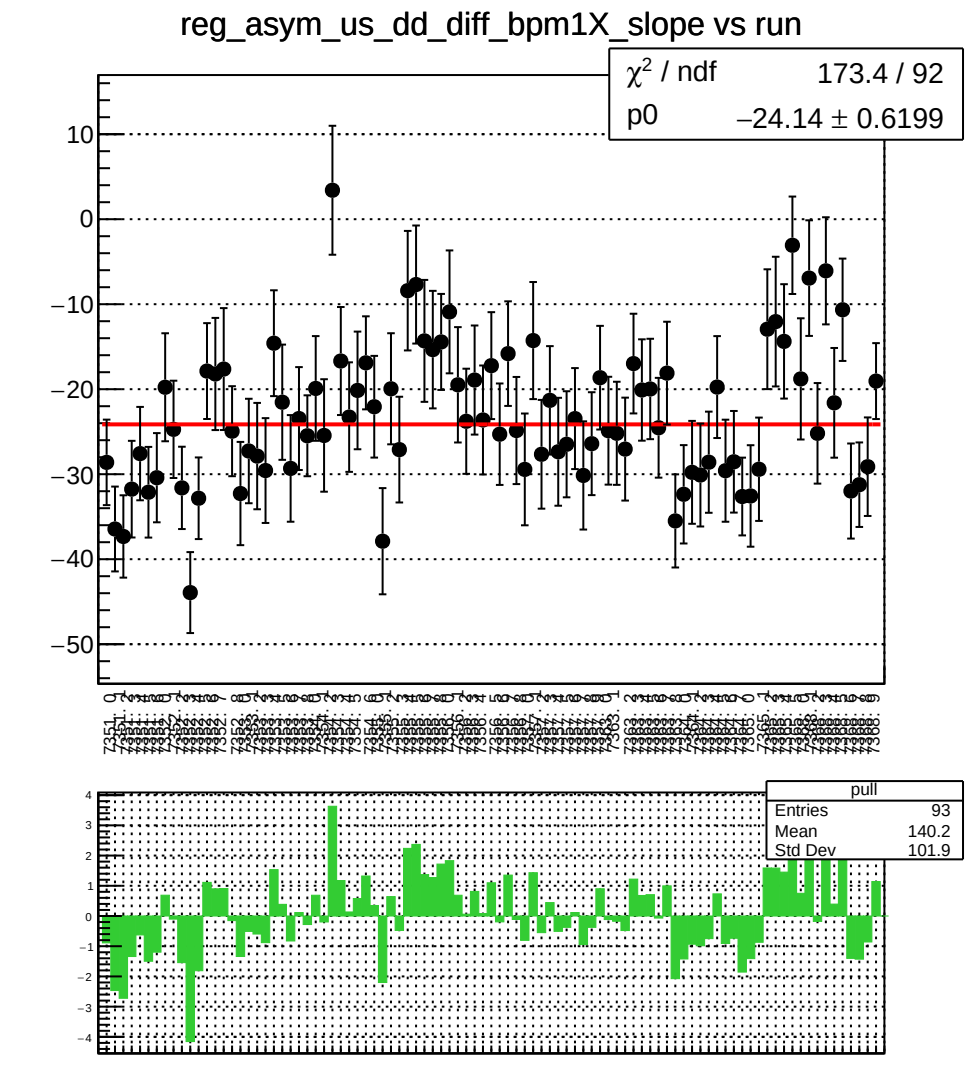

pull1D
Entries 93
Mean 0.02127
Std Dev 0.6365

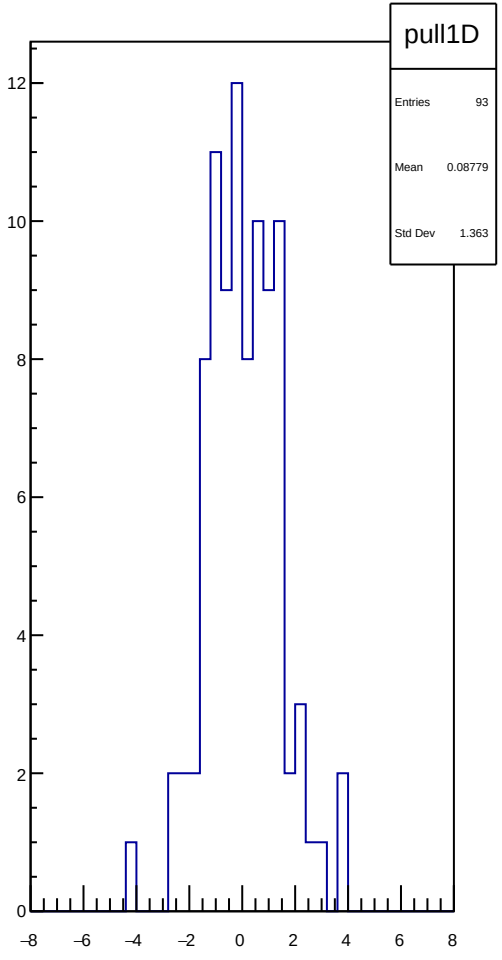

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 30.12 / 92
p0 28.53 ± 1.344
pull
Entries 93
Mean −153.5
Std Dev 193.3

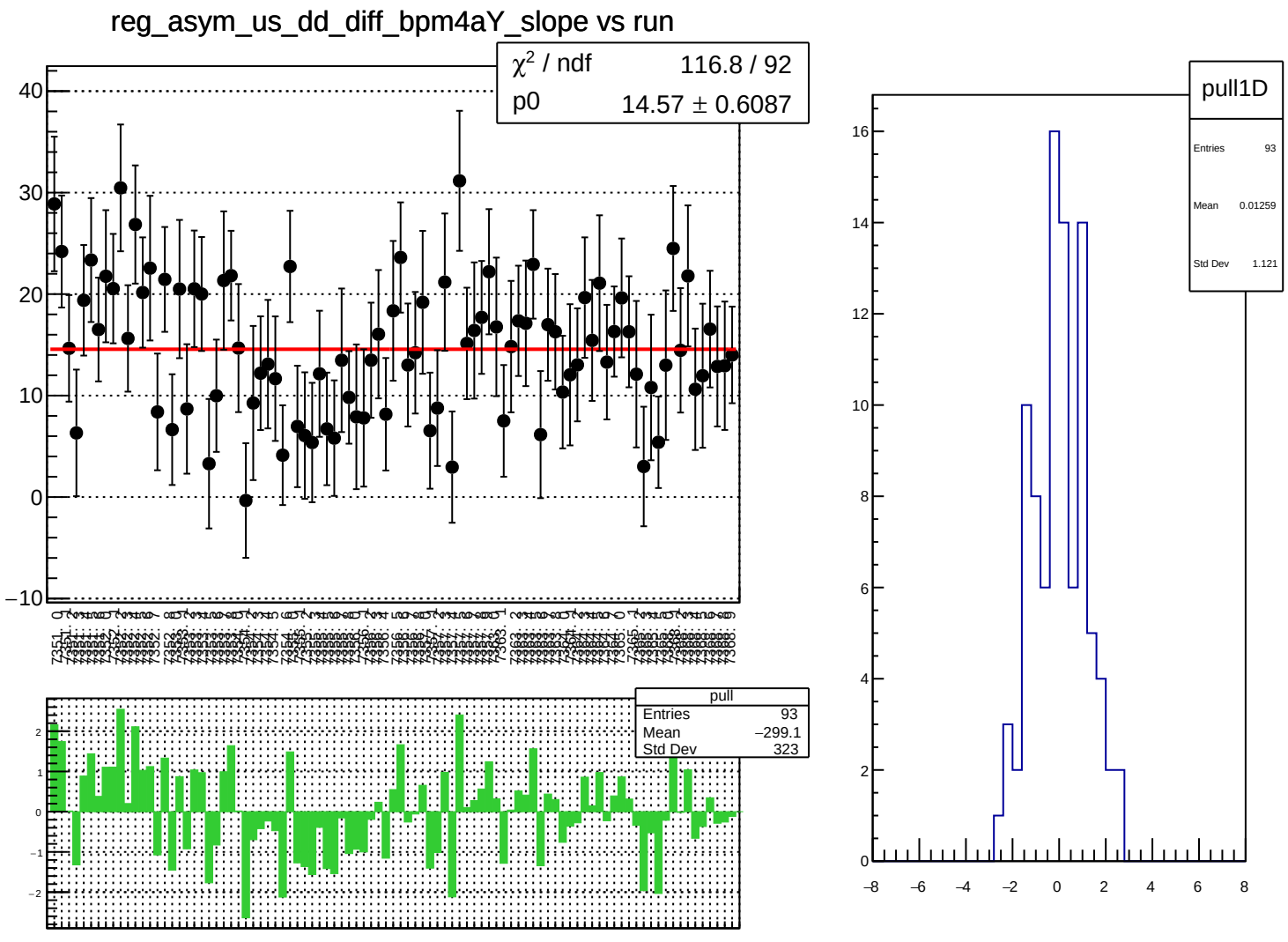

pull1D
Entries 93
Mean 0.02349
Std Dev 0.5686

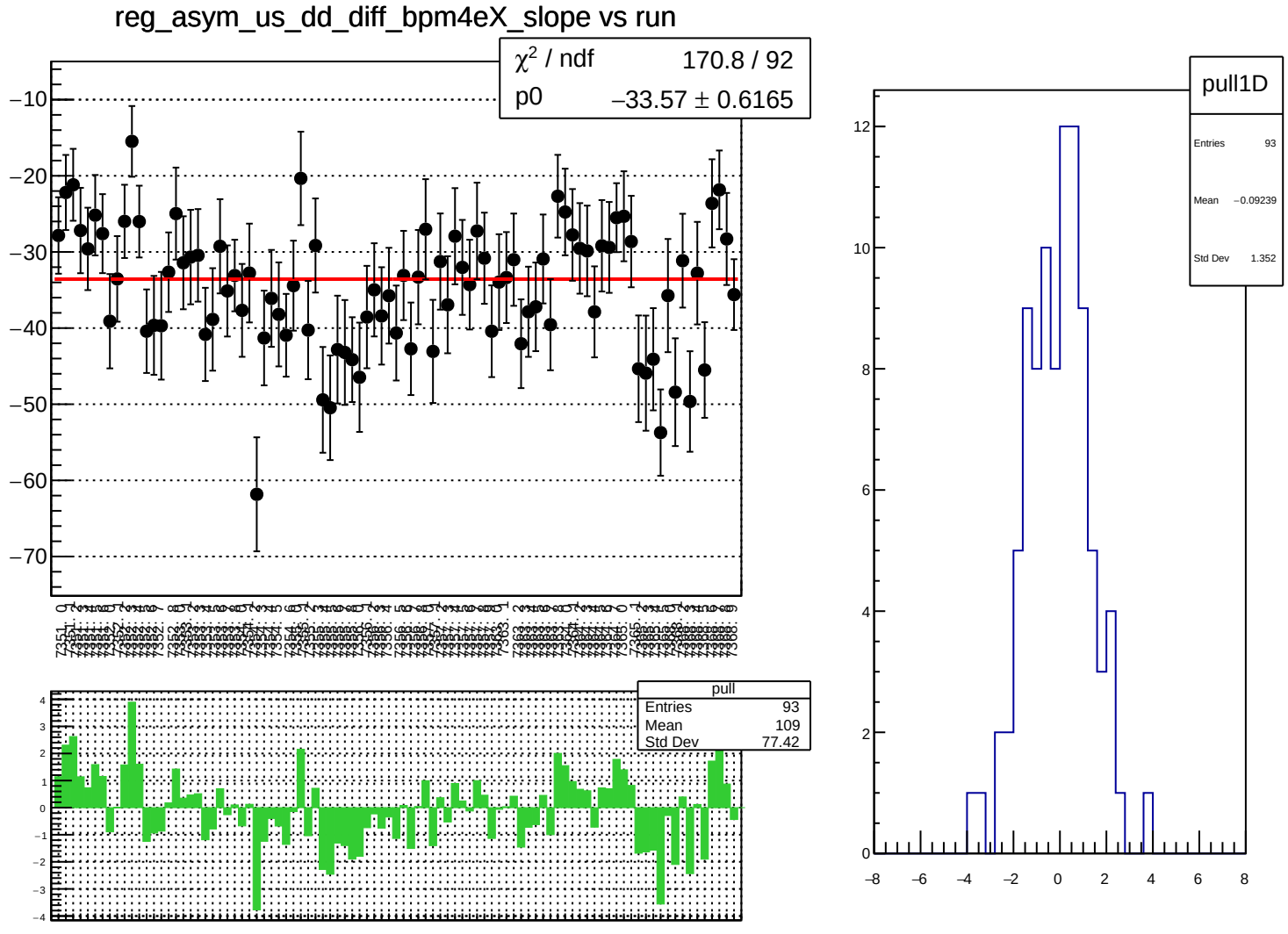

reg_asym_us_avg_diff_bpm12X_slope vs run
χ² / ndf 85.47 / 92
p0 −36.85 ± 0.06347
−35
−36
−37
−38
−39
pull
Entries 93
Mean −1248
Std Dev 1310
2
1
0
−1
−2
−3

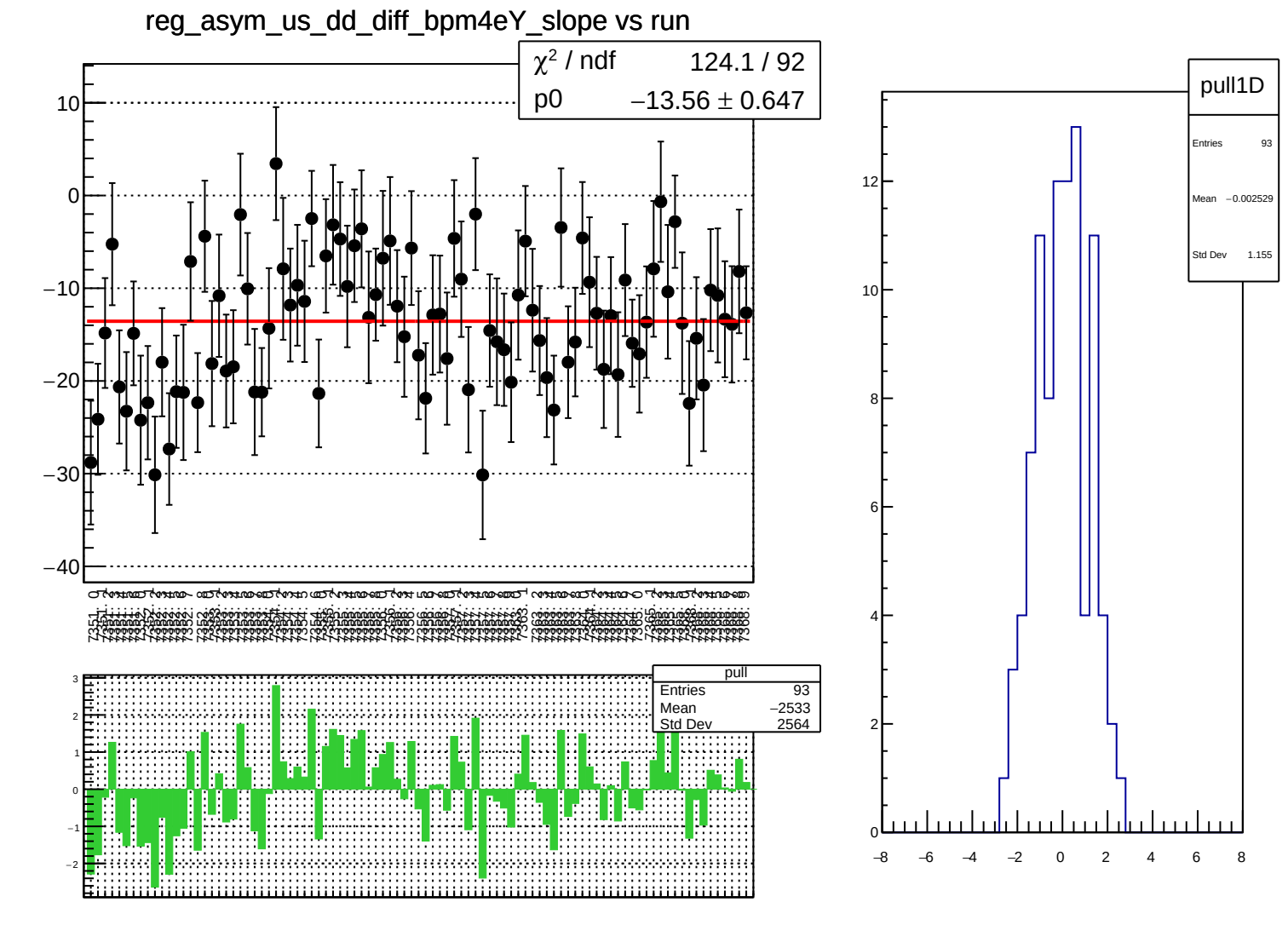

pull1D
Entries 93
Mean 0.007626
Std Dev 0.9586
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

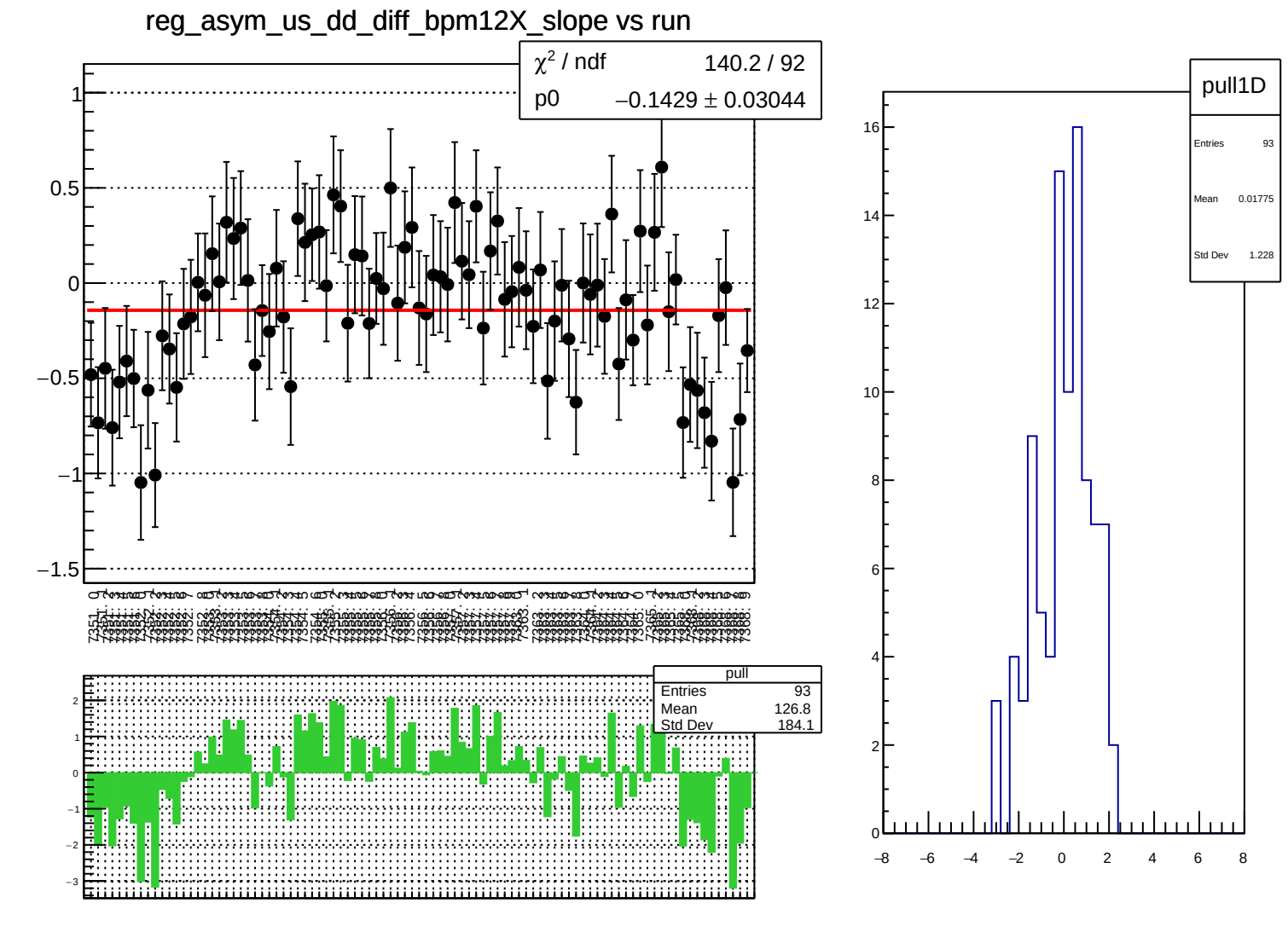

reg_asym_us_dd_diff_bpm1X_slope vs run
χ² / ndf 173.4 / 92
p0 −24.14 ± 0.6199
pull
Entries 93
Mean 140.2
Std Dev 101.9

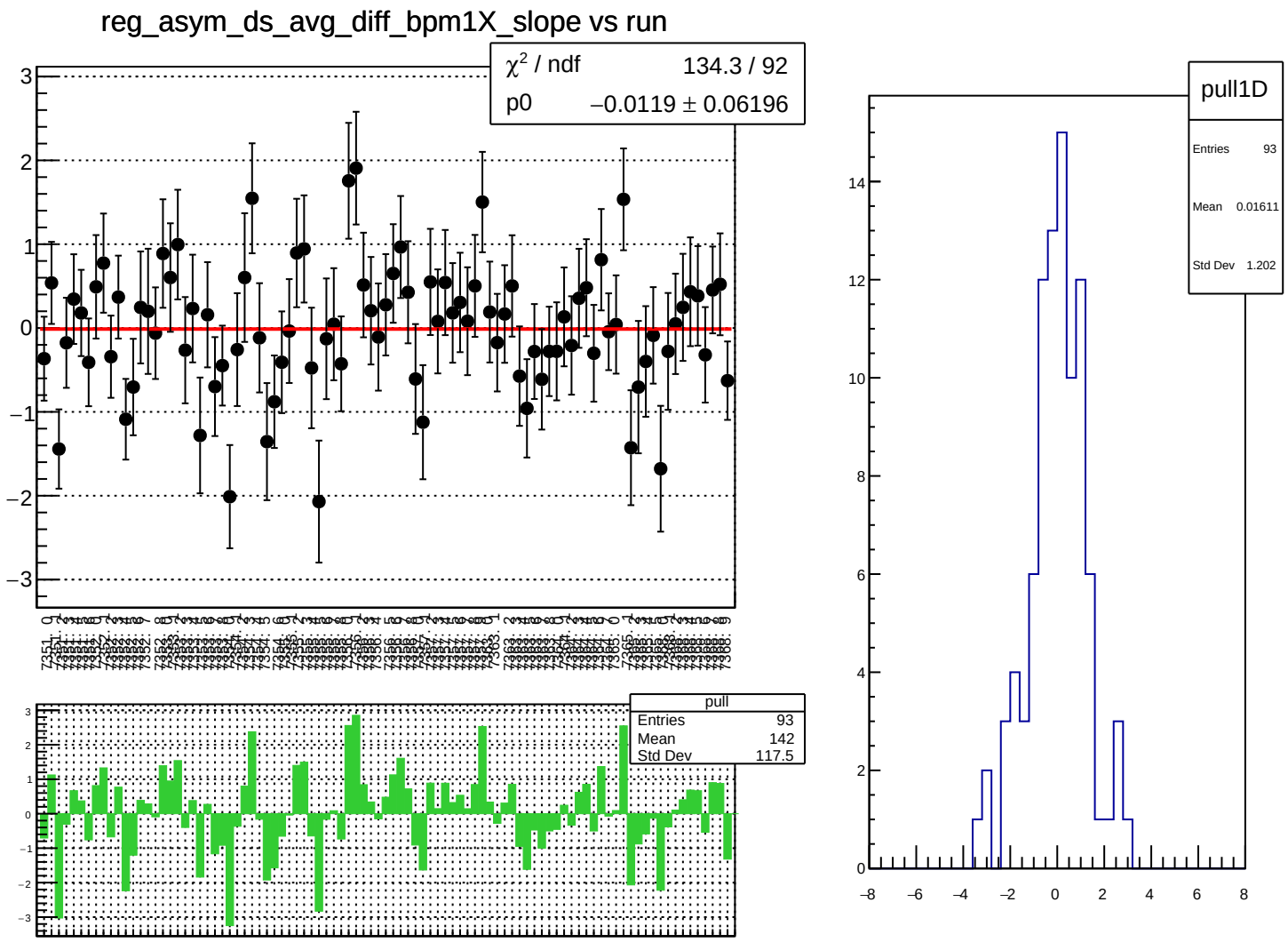

pull1D
Entries 93
Mean 0.08779
Std Dev 1.363

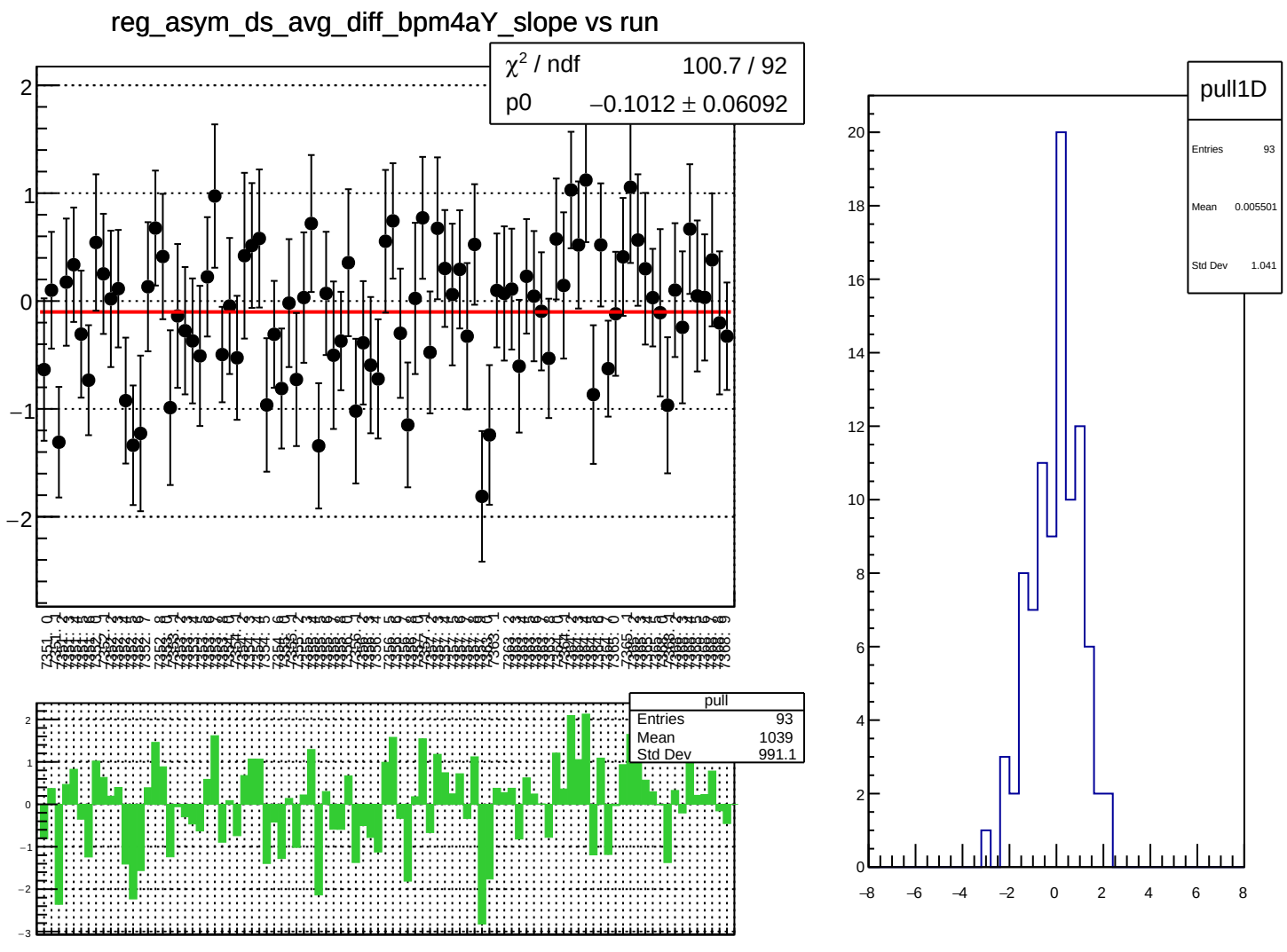

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 116.8 / 92
p0 14.57 ± 0.6087
pull
Entries 93
Mean −299.1
Std Dev 323
pull1D
Entries 93
Mean 0.01259
Std Dev 1.121

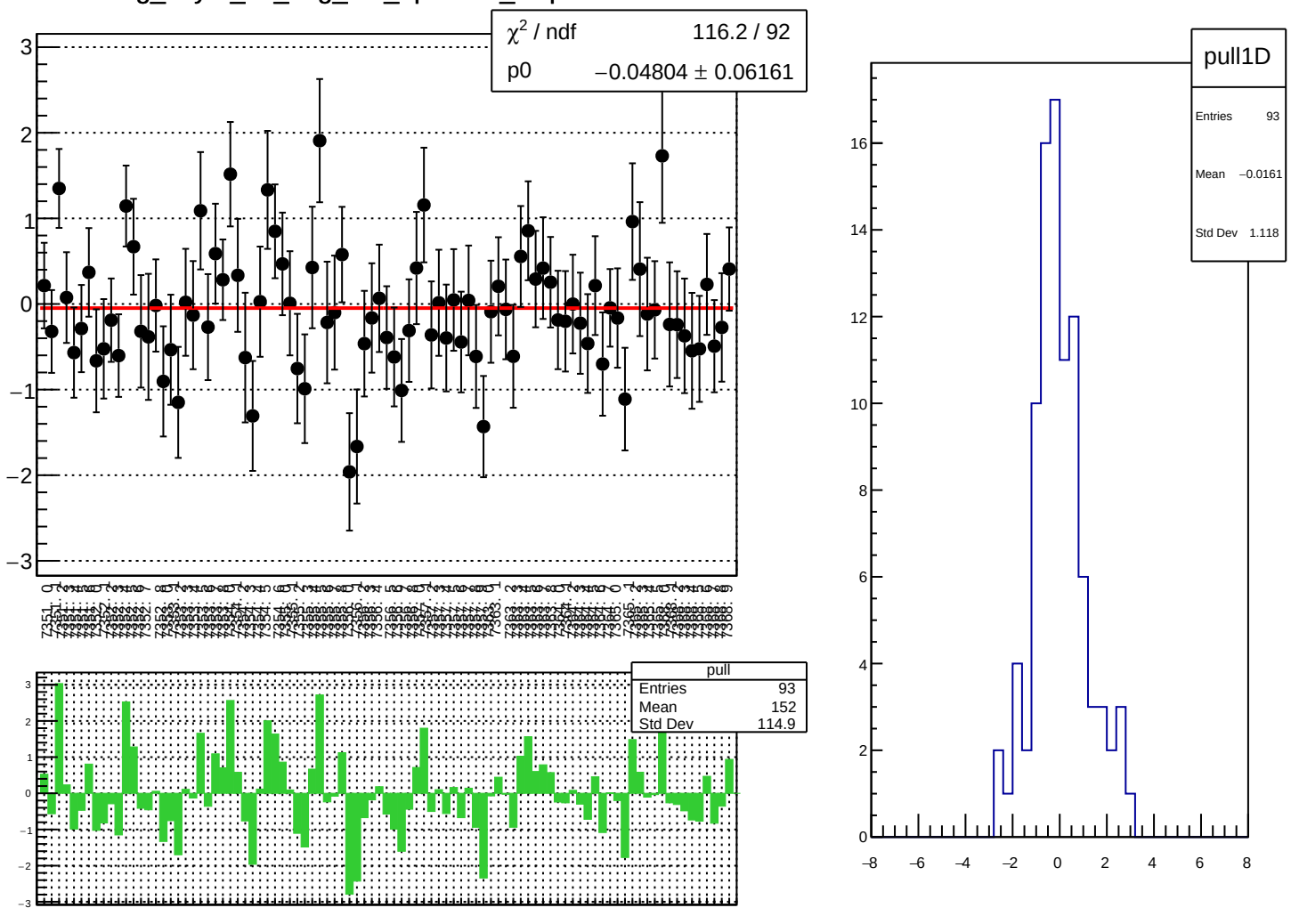

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 170.8 / 92
p0 −33.57 ± 0.6165
pull
Entries 93
Mean 109
Std Dev 77.42
pull1D
Entries 93
Mean −0.09239
Std Dev 1.352

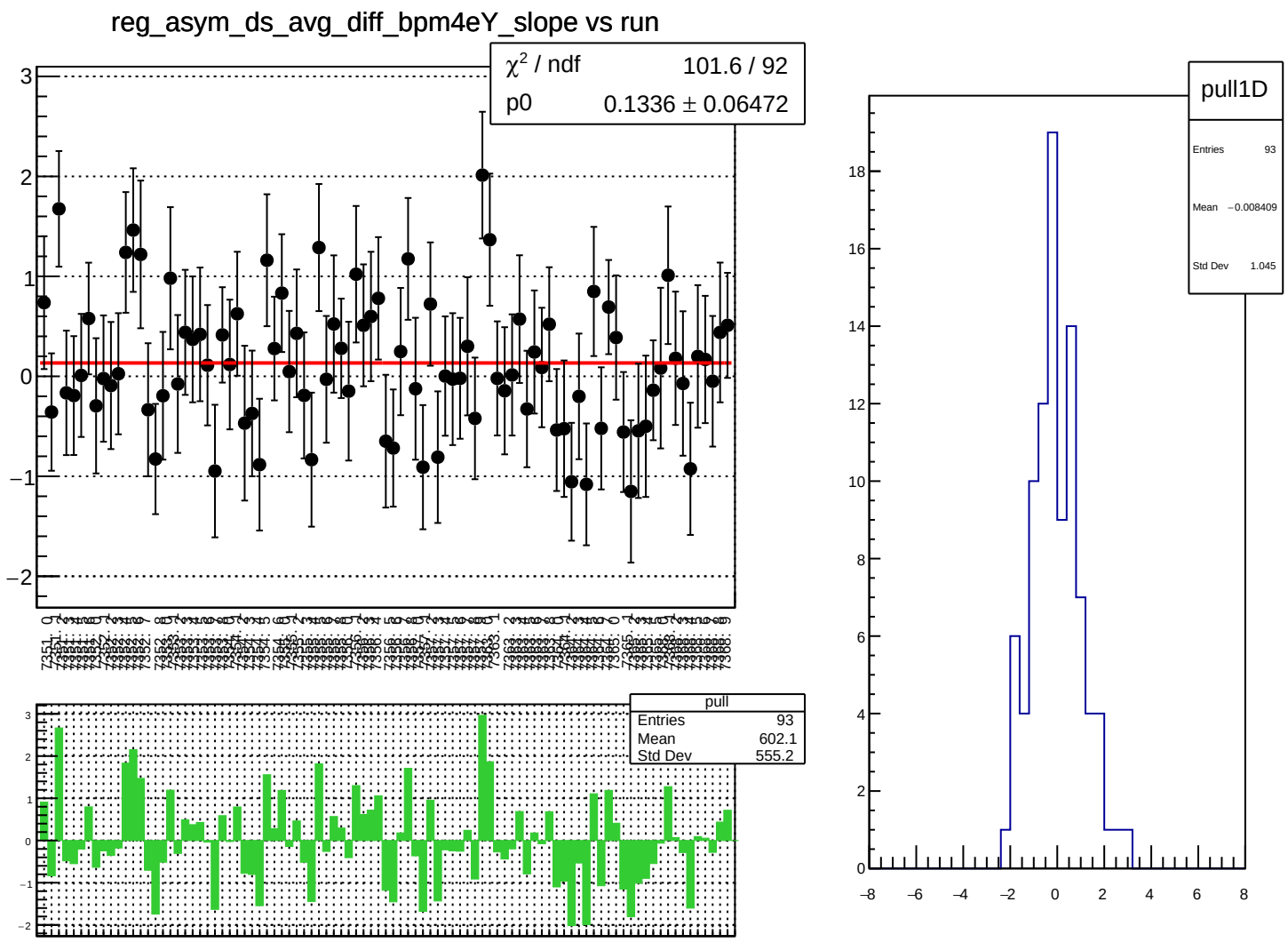

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 124.1 / 92
p0 −13.56 ± 0.647
pull
Entries 93
Mean −2533
Std Dev 2564
pull1D
Entries 93
Mean −0.002529
Std Dev 1.155

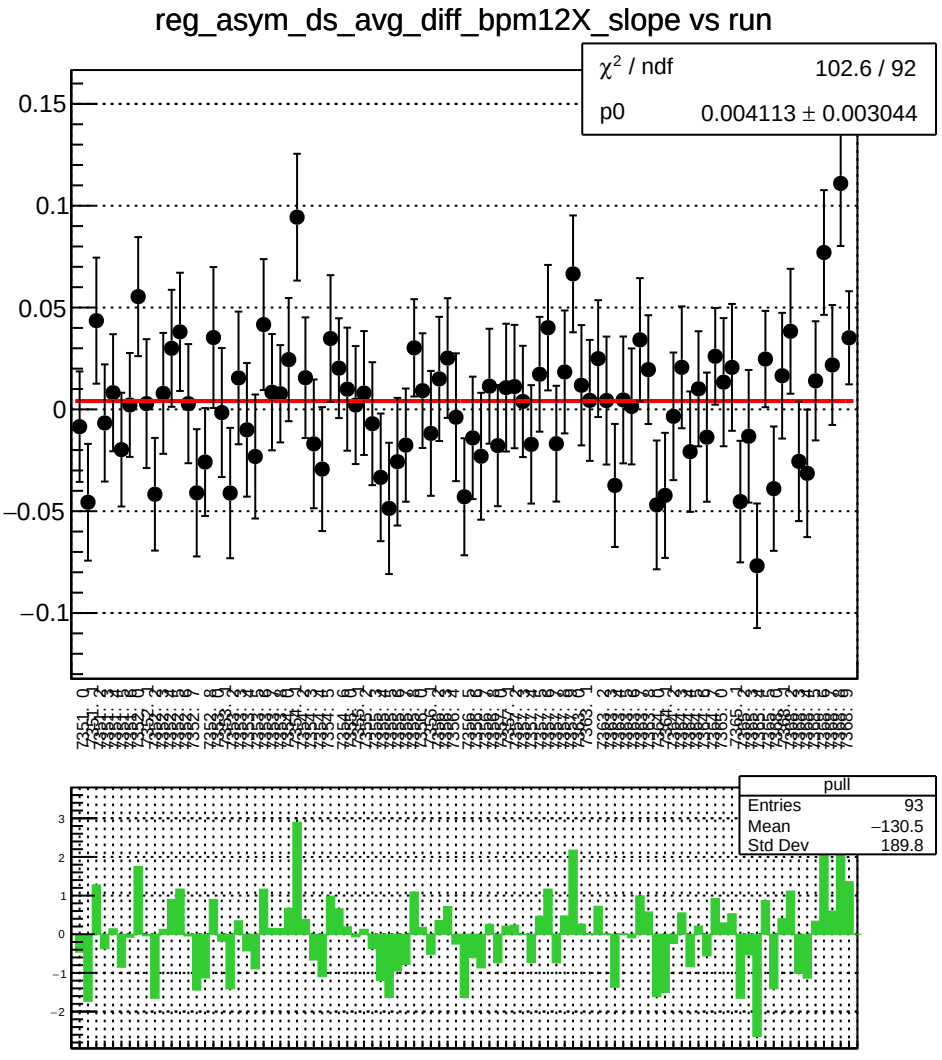

reg_asym_us_dd_diff_bpm12X_slope vs run
χ² / ndf 140.2 / 92
p0 −0.1429 ± 0.03044
pull
Entries 93
Mean 126.8
Std Dev 184.1
pull1D
Entries 93
Mean 0.01775
Std Dev 1.228

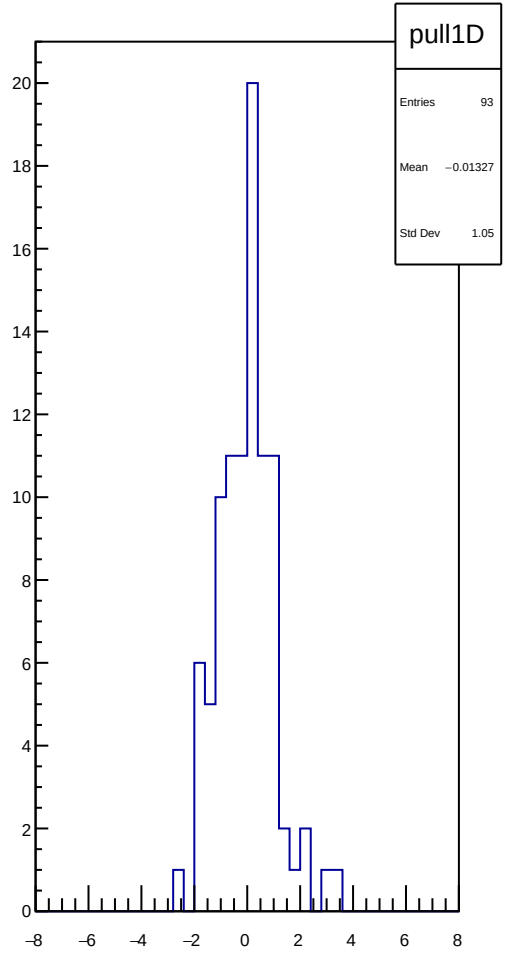

reg_asym_ds_avg_diff_bpm1X_slope vs run
χ² / ndf 134.3 / 92
p0 −0.0119 ± 0.06196
pull
Entries 93
Mean 142
Std Dev 117.5
pull1D
Entries 93
Mean 0.01611
Std Dev 1.202

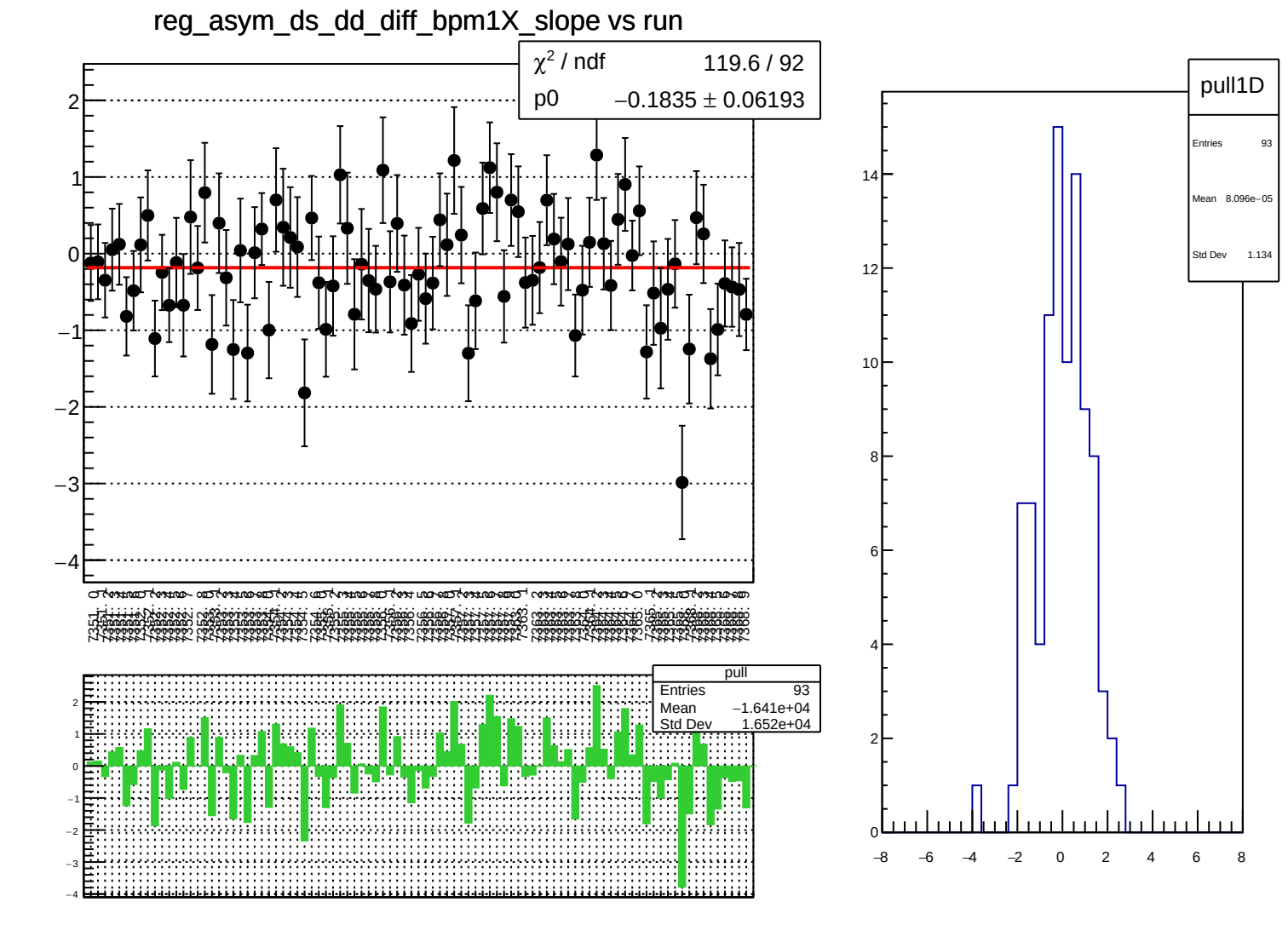

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 100.7 / 92
p0 −0.1012 ± 0.06092
pull
Entries 93
Mean 1039
Std Dev 991.1
pull1D
Entries 93
Mean 0.005501
Std Dev 1.041

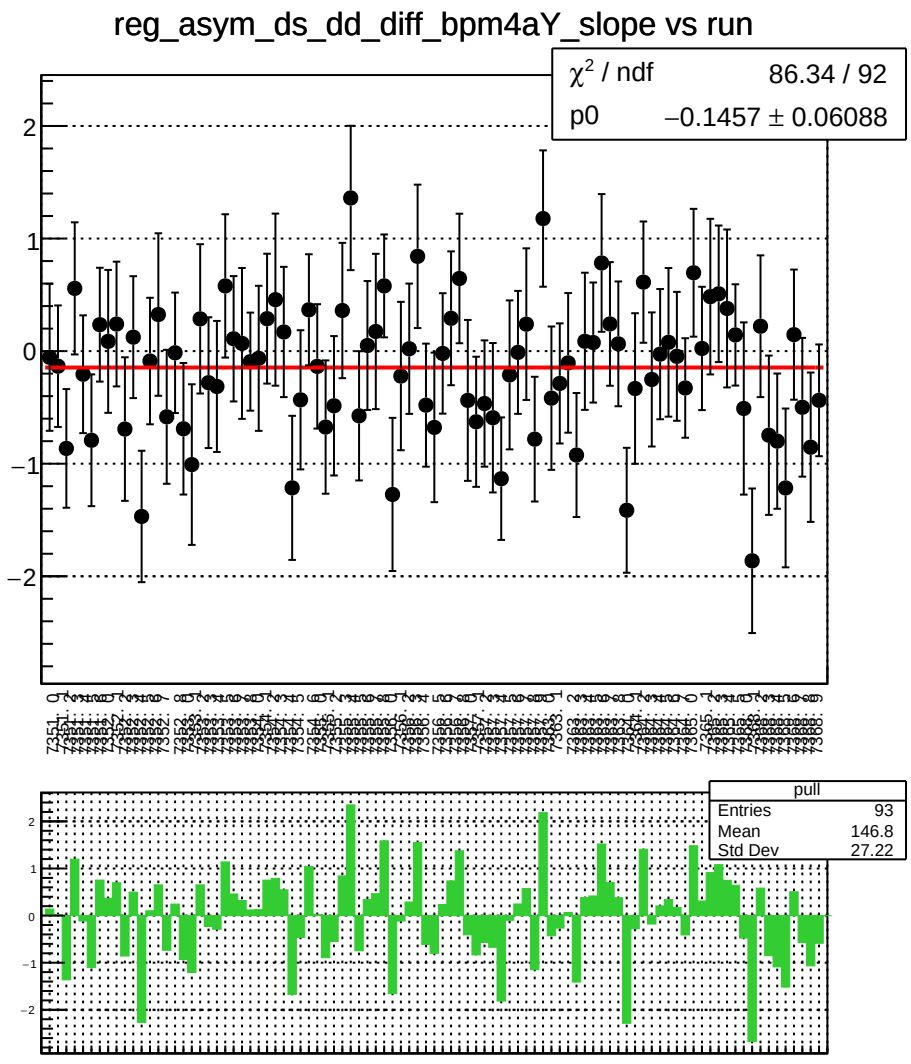

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 116.2 / 92
p0 −0.04804 ± 0.06161
pull
Entries 93
Mean 152
Std Dev 114.9
pull1D
Entries 93
Mean −0.0161
Std Dev 1.118

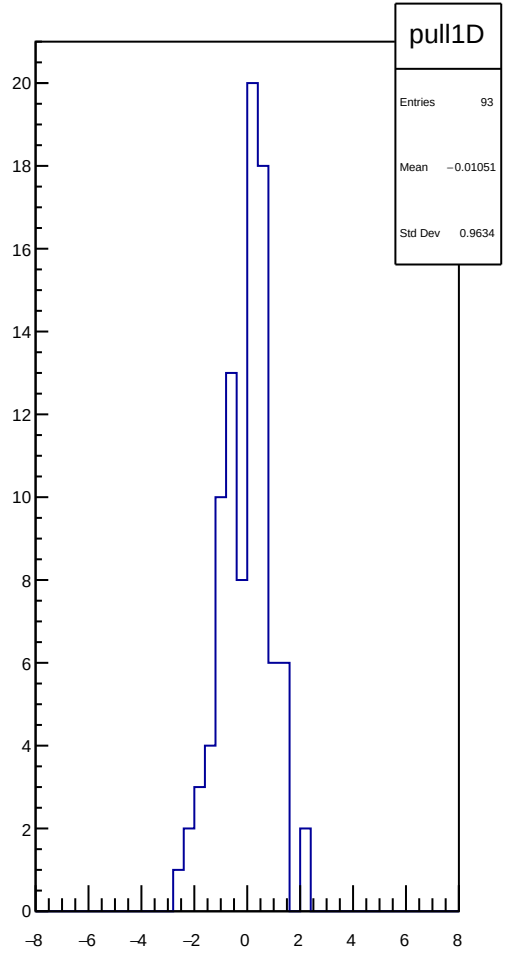

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 101.6 / 92
p0 0.1336 ± 0.06472
pull
Entries 93
Mean 602.1
Std Dev 555.2
pull1D
Entries 93
Mean −0.008409
Std Dev 1.045

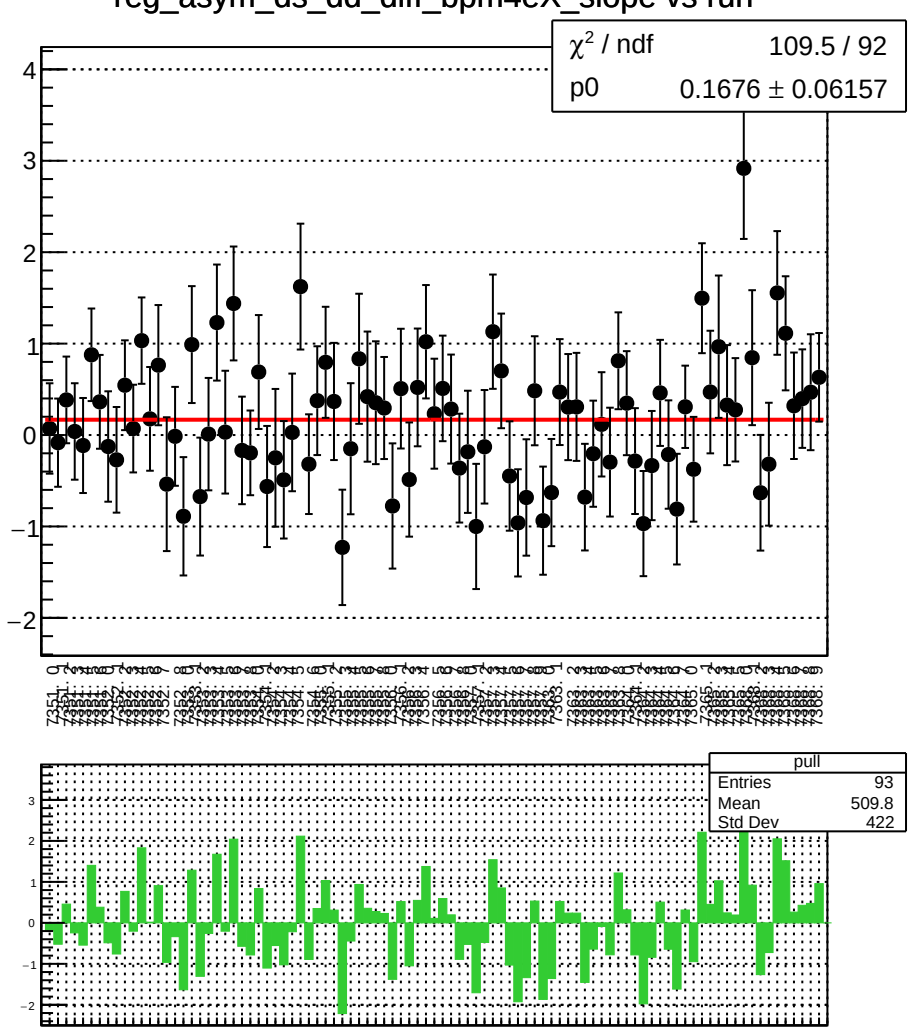

reg_asym_ds_avg_diff_bpm12X_slope vs run
χ² / ndf 102.6 / 92
p0 0.004113 ± 0.003044
0.15
0.1
0.05
0
−0.05
−0.1
pull
Entries 93
Mean −130.5
Std Dev 189.8
3
2
1
0
−1
−2

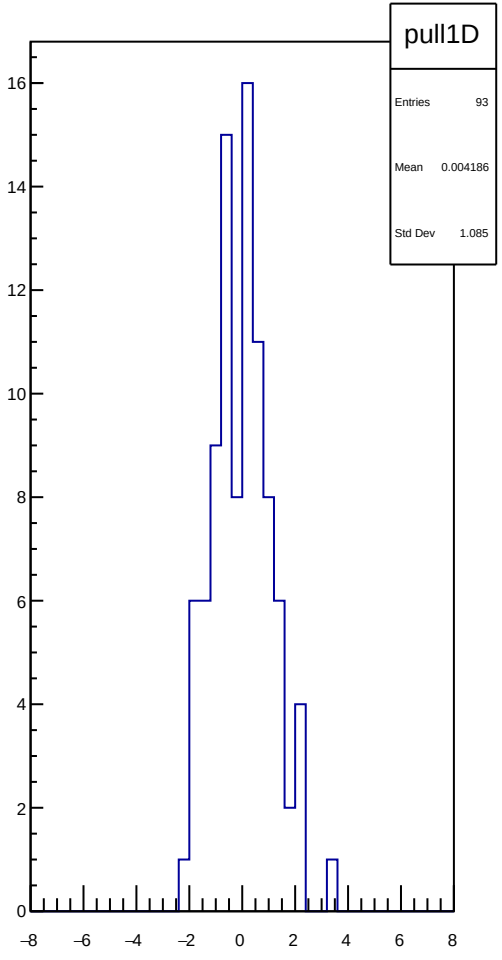

pull1D
Entries 93
Mean −0.01327
Std Dev 1.05
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

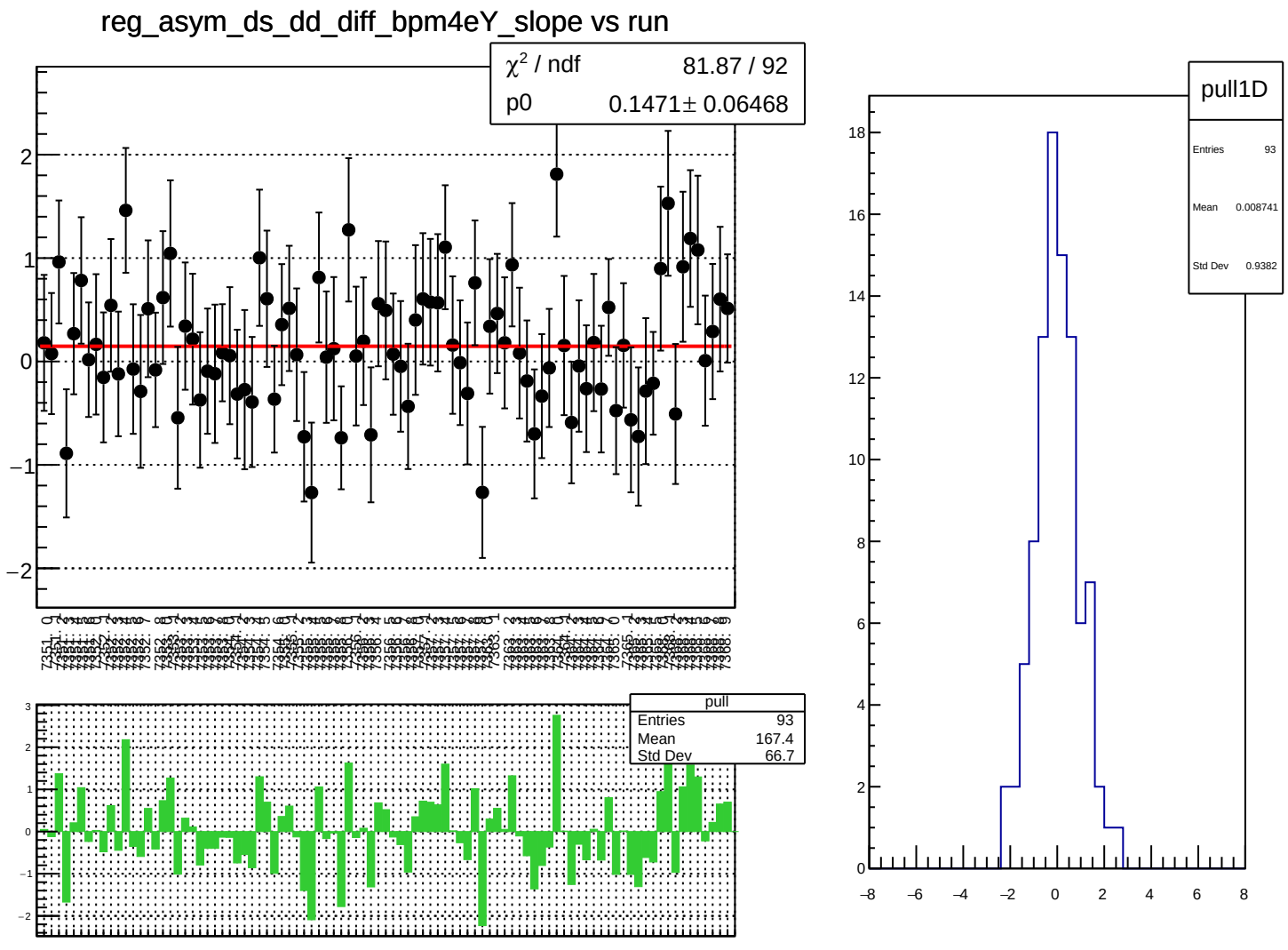

reg_asym_ds_dd_diff_bpm1X_slope vs run
χ² / ndf 119.6 / 92
p0 −0.1835 ± 0.06193
pull
Entries 93
Mean −1.641e+04
Std Dev 1.652e+04
pull1D
Entries 93
Mean 8.096e−05
Std Dev 1.134

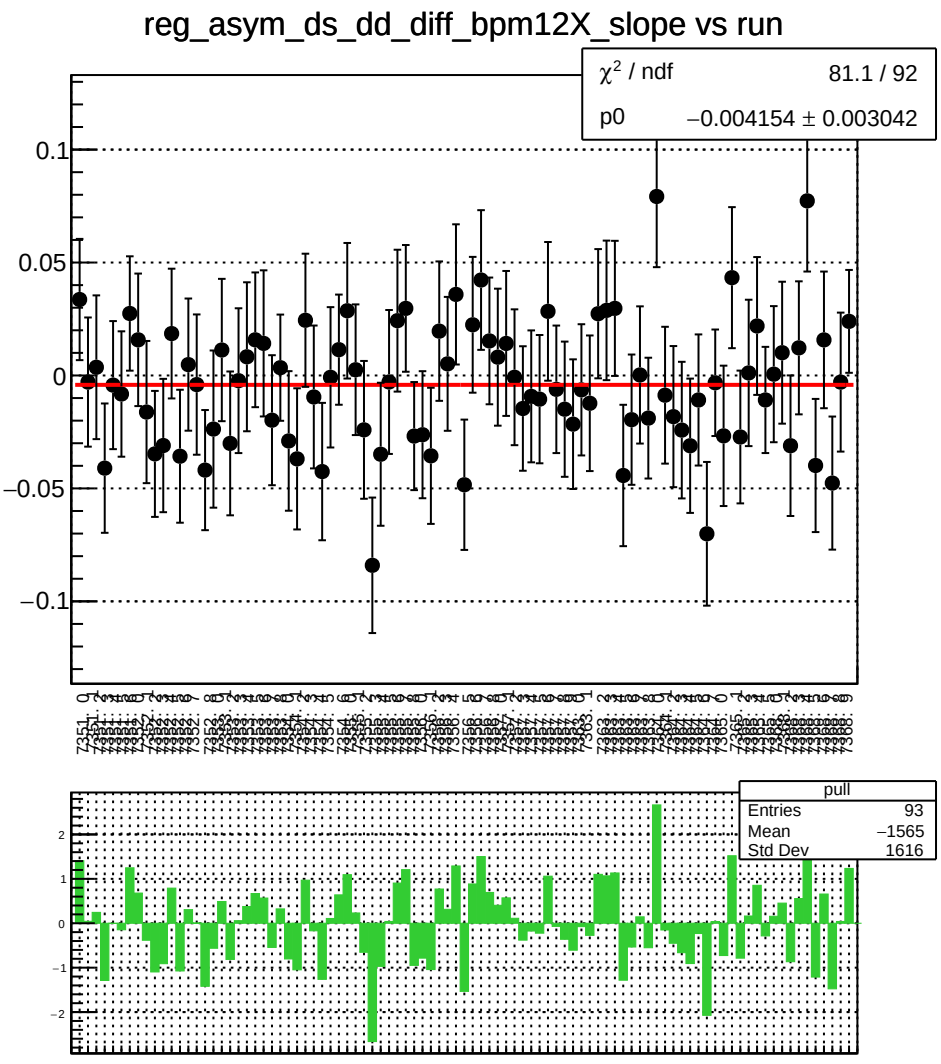

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 86.34 / 92
p0 −0.1457 ± 0.06088
pull
Entries 93
Mean 146.8
Std Dev 27.22

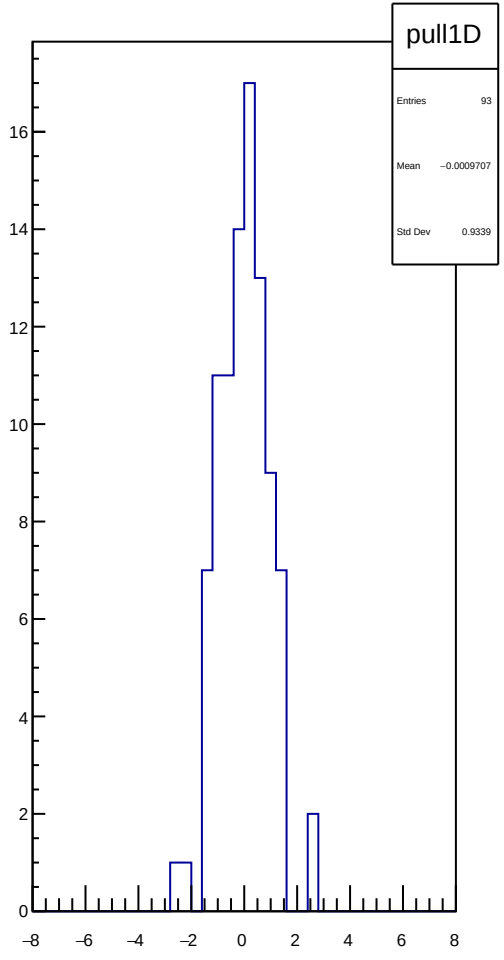

pull1D
Entries 93
Mean −0.01051
Std Dev 0.9634

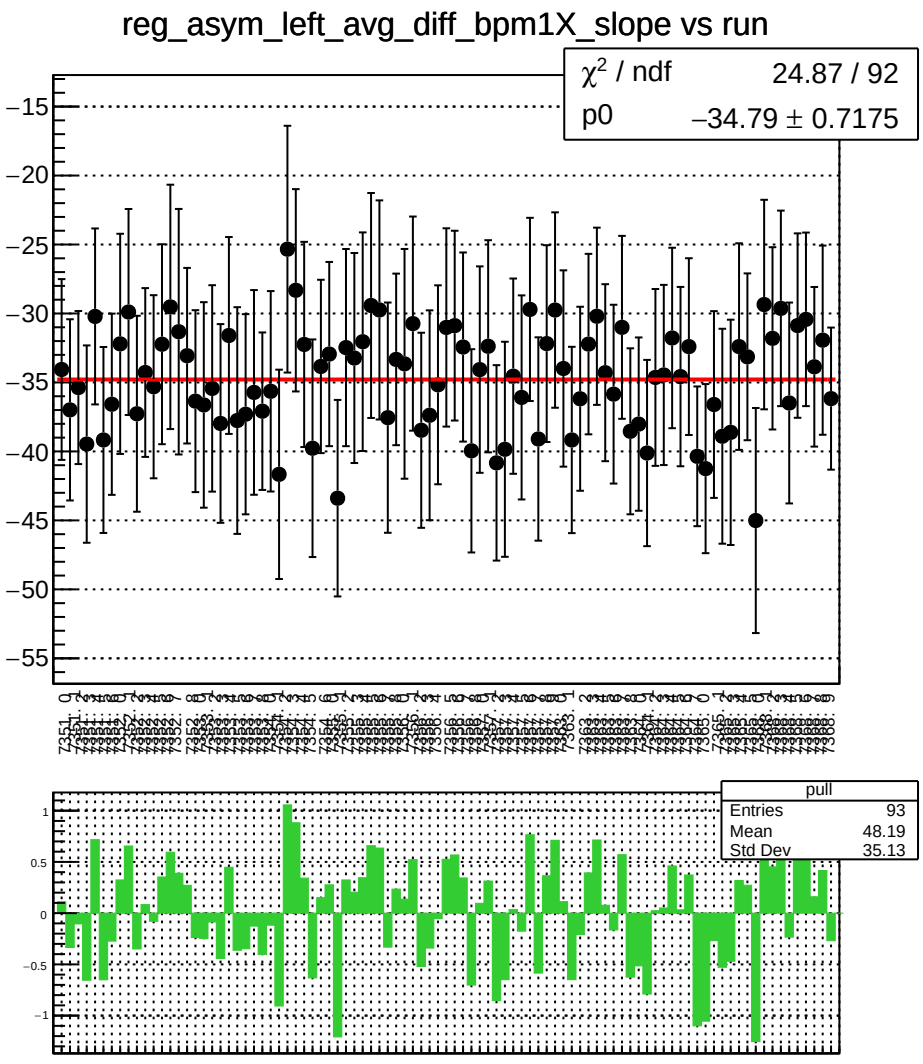

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 109.5 / 92
p0 0.1676 ± 0.06157
pull
Entries 93
Mean 509.8
Std Dev 422

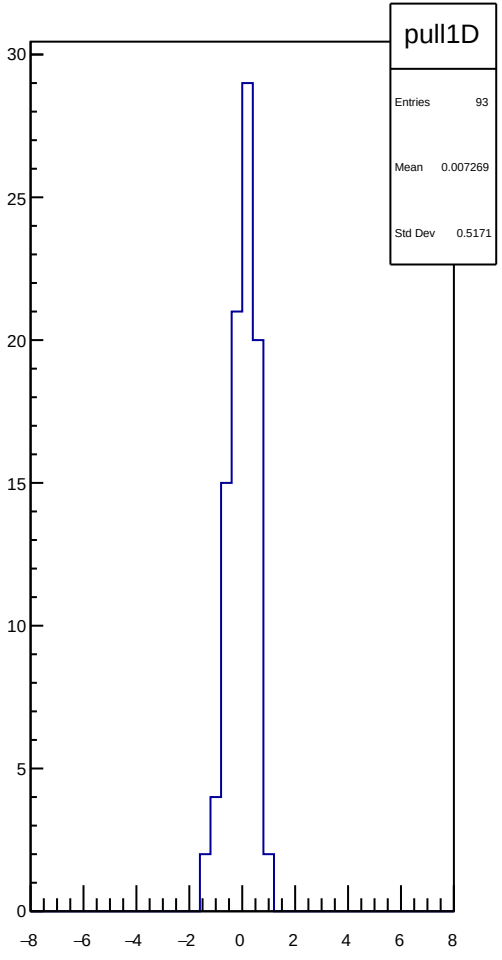

pull1D
Entries 93
Mean 0.004186
Std Dev 1.085

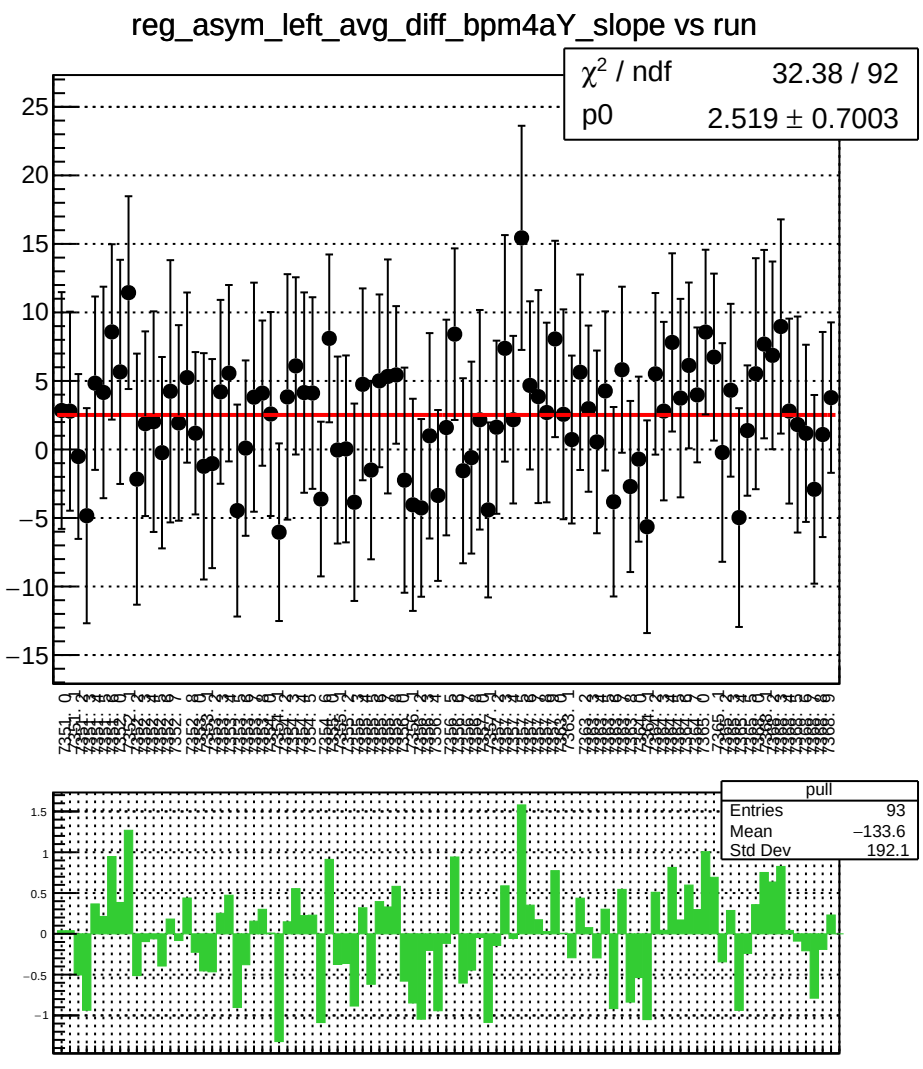

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 81.87 / 92
p0 0.1471± 0.06468
pull
Entries 93
Mean 167.4
Std Dev 66.7
pull1D
Entries 93
Mean 0.008741
Std Dev 0.9382

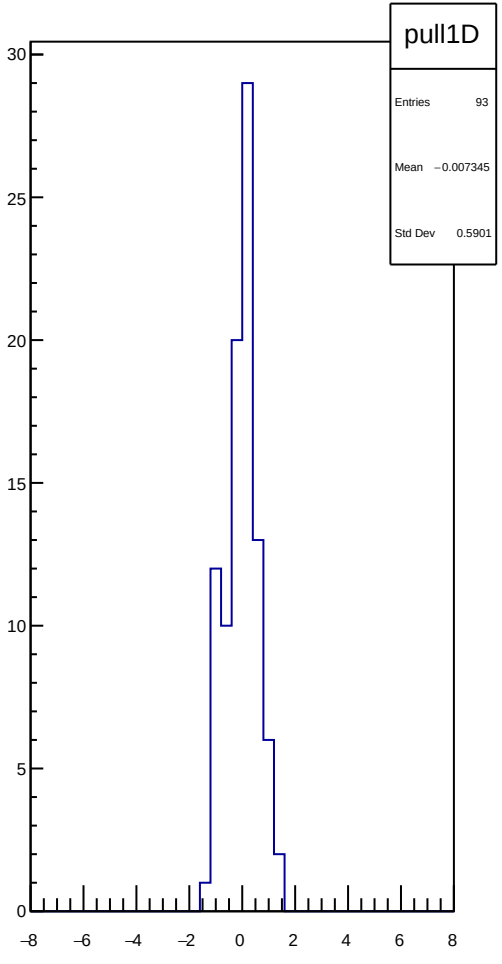

reg_asym_ds_dd_diff_bpm12X_slope vs run
χ² / ndf 81.1 / 92
p0 −0.004154 ± 0.003042
pull
Entries 93
Mean −1565
Std Dev 1616

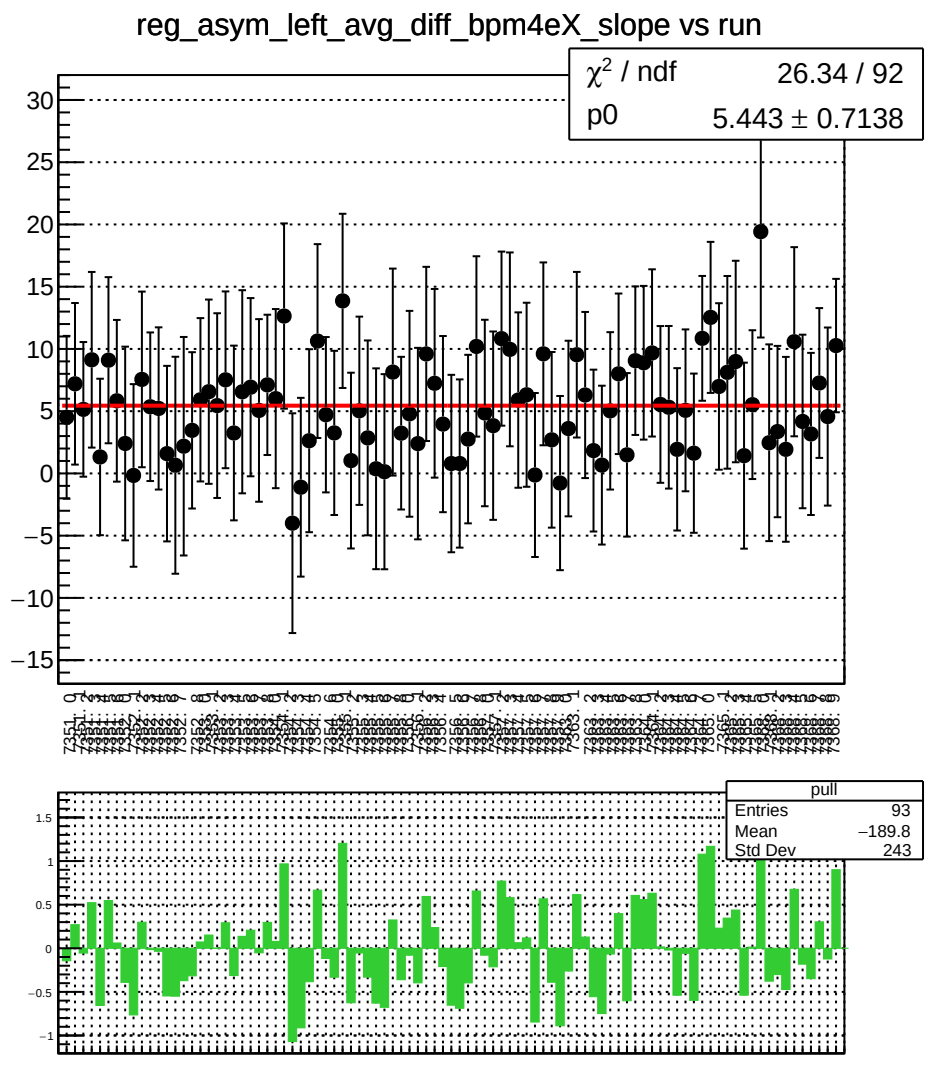

pull1D
Entries 93
Mean −0.0009707
Std Dev 0.9339

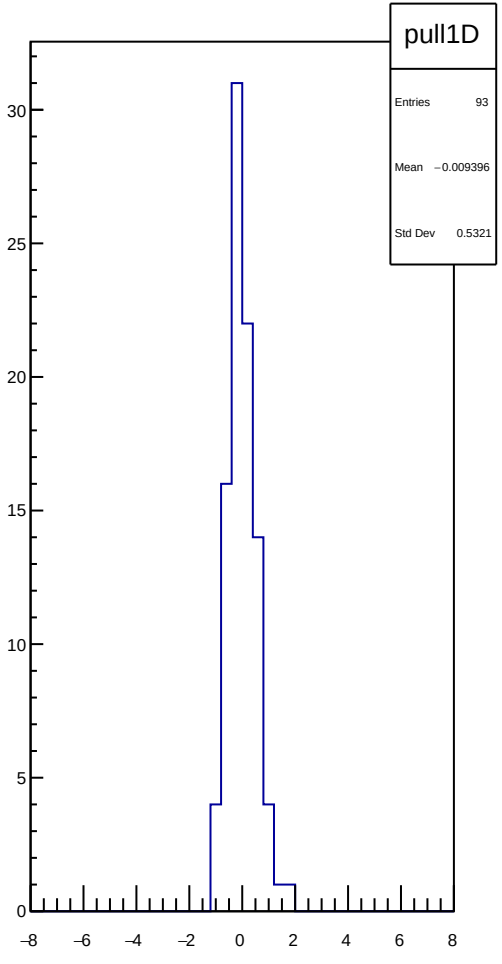

reg_asym_left_avg_diff_bpm1X_slope vs run
χ² / ndf 24.87 / 92
p0 −34.79 ± 0.7175
pull
Entries 93
Mean 48.19
Std Dev 35.13

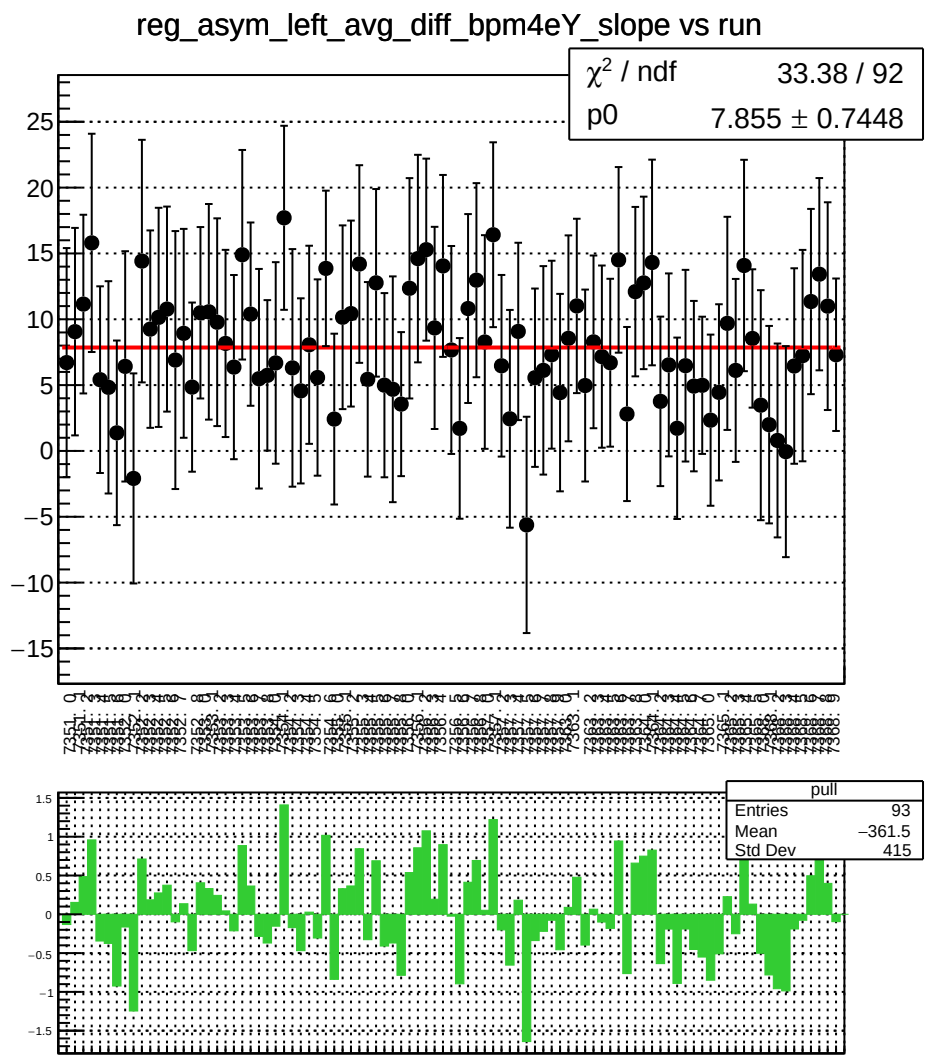

pull1D
Entries 93
Mean 0.007269
Std Dev 0.5171

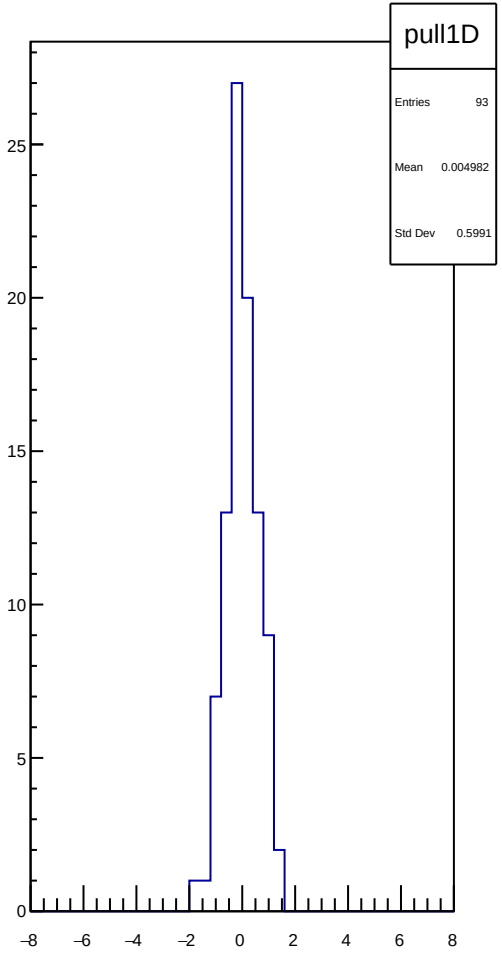

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 32.38 / 92
p0 2.519 ± 0.7003
pull
Entries 93
Mean −133.6
Std Dev 192.1

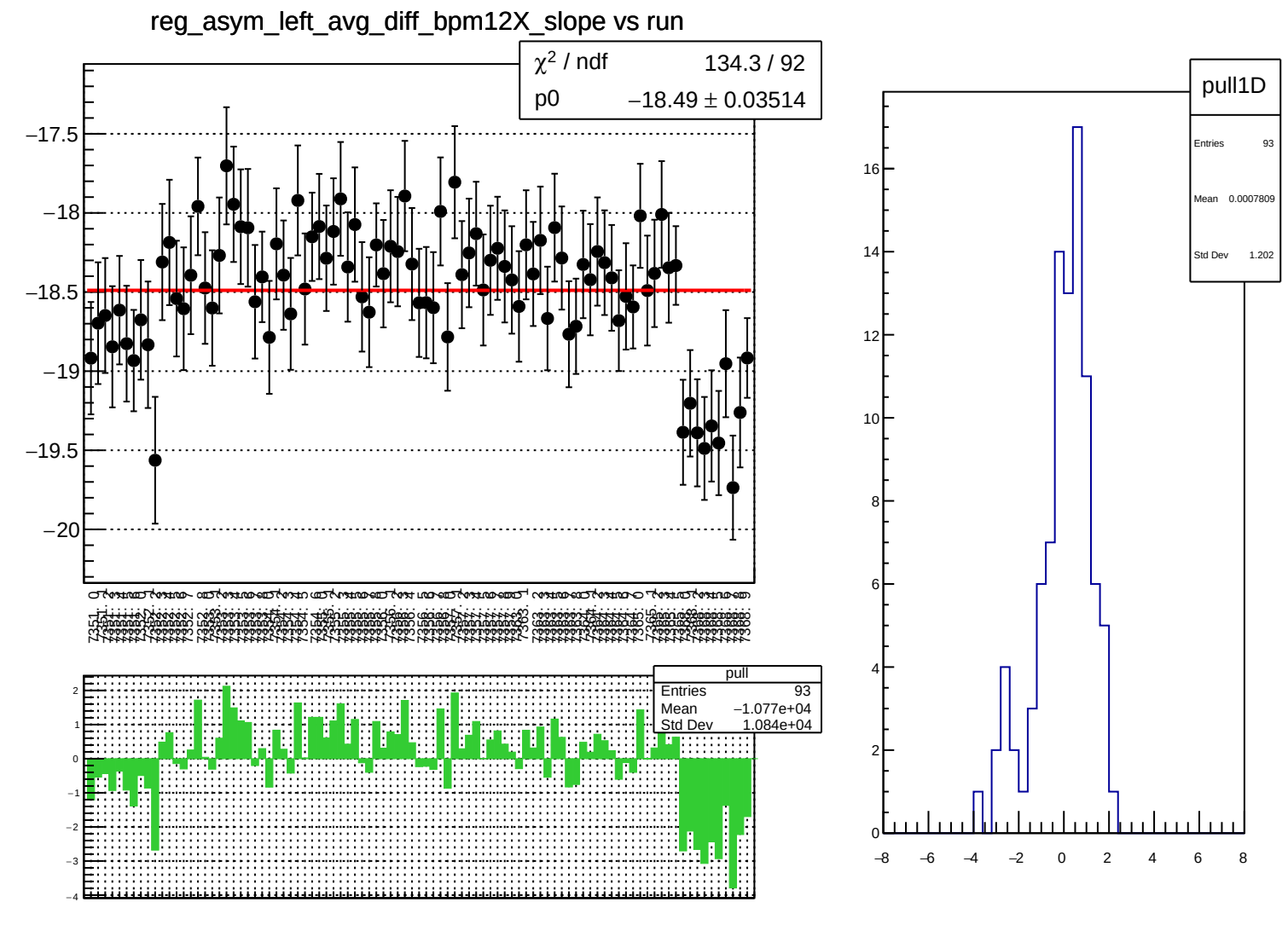

pull1D
Entries 93
Mean −0.007345
Std Dev 0.5901

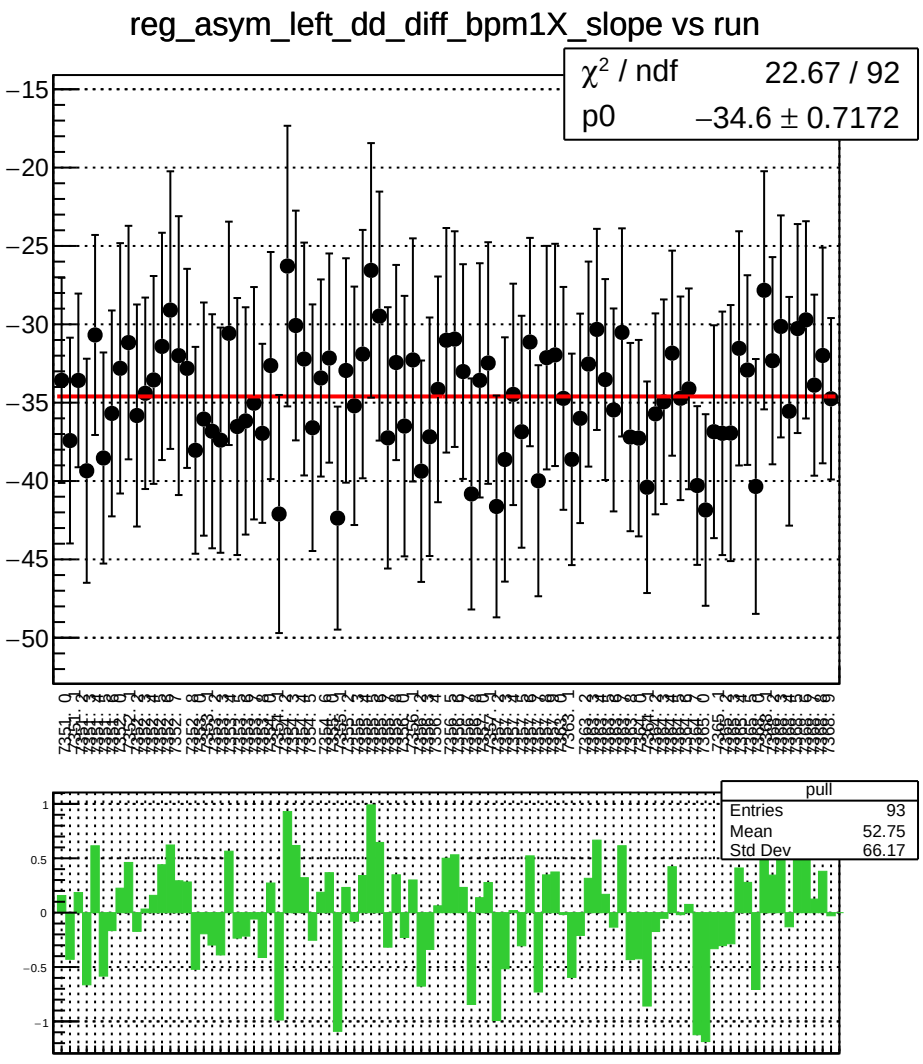

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 26.34 / 92
p0 5.443 ± 0.7138
pull
Entries 93
Mean −189.8
Std Dev 243

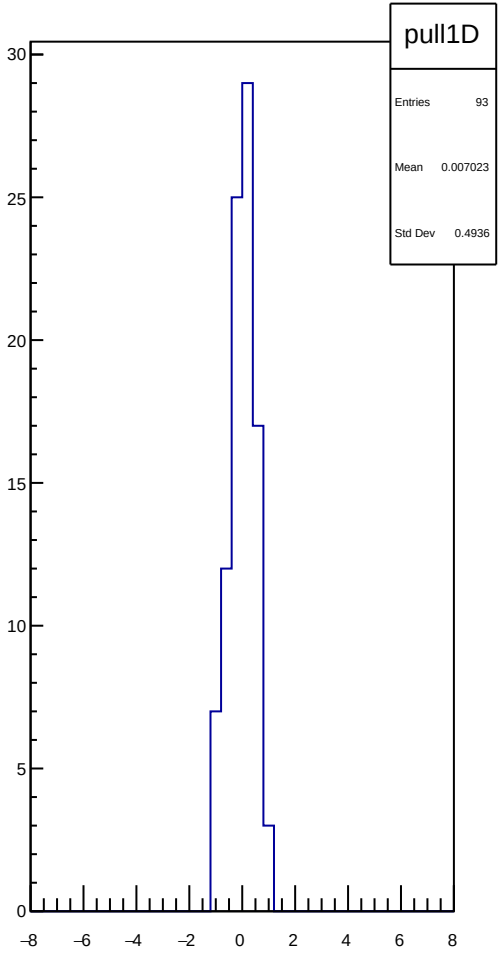

pull1D
Entries 93
Mean −0.009396
Std Dev 0.5321

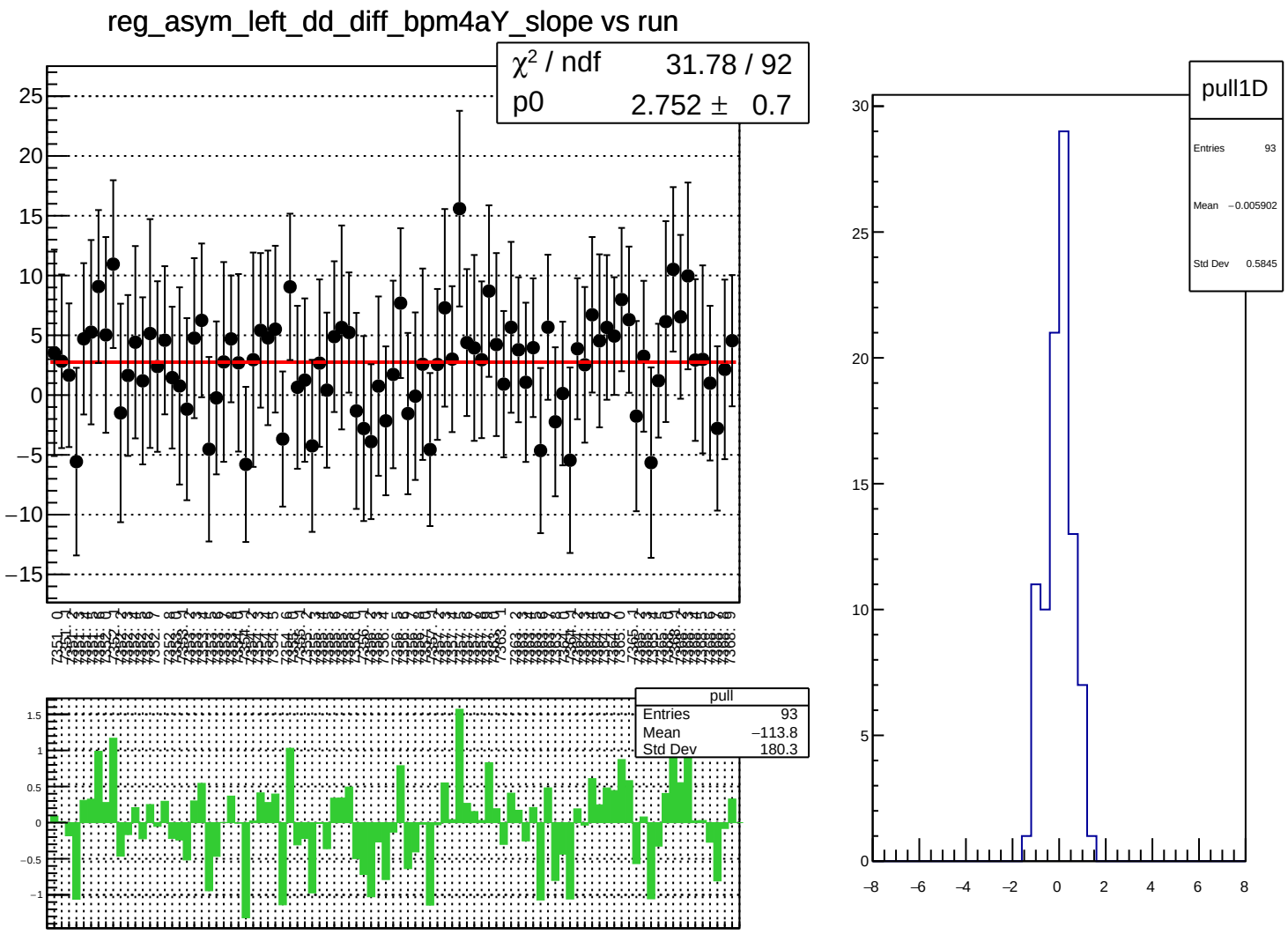

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 33.38 / 92
p0 7.855 ± 0.7448
pull
Entries 93
Mean −361.5
Std Dev 415

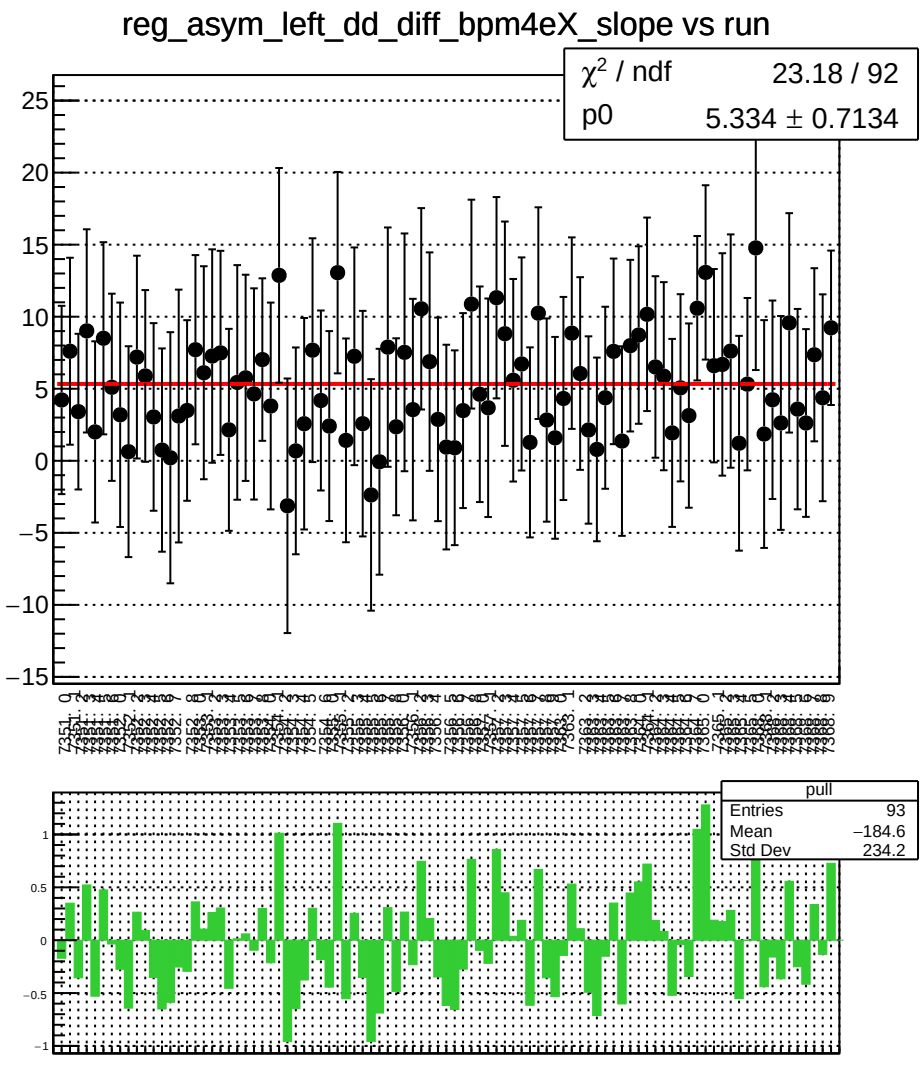

pull1D
Entries 93
Mean 0.004982
Std Dev 0.5991

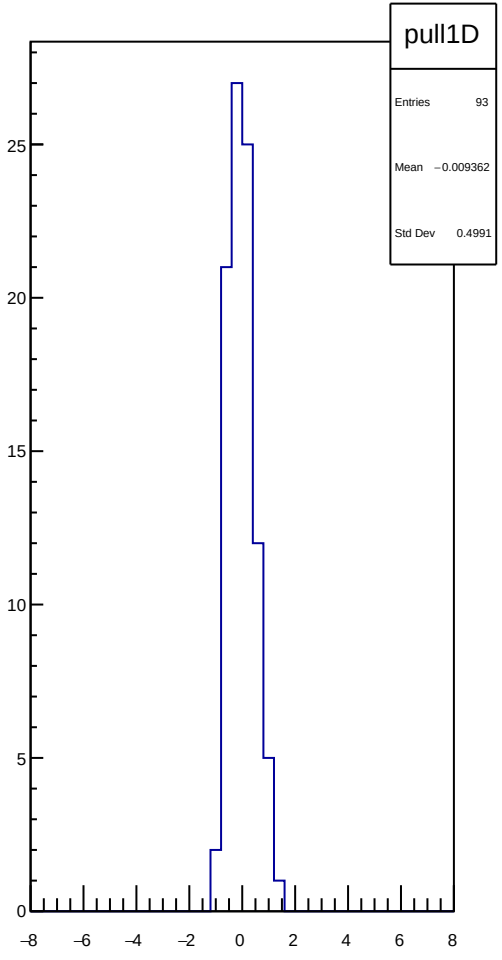

reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 134.3 / 92
p0 −18.49 ± 0.03514
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 93
Mean −1.077e+04
Std Dev 1.084e+04
pull1D
Entries 93
Mean 0.0007809
Std Dev 1.202

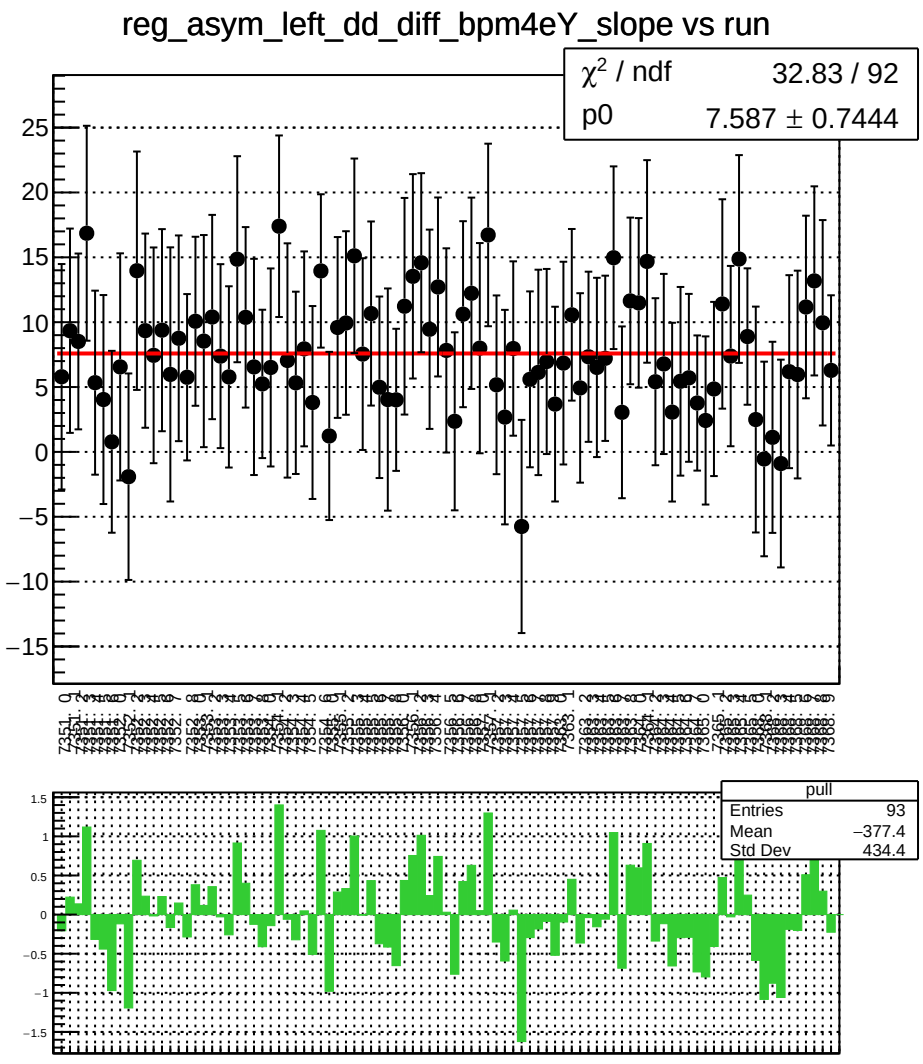

reg_asym_left_dd_diff_bpm1X_slope vs run
χ² / ndf 22.67 / 92
p0 −34.6 ± 0.7172
pull
Entries 93
Mean 52.75
Std Dev 66.17

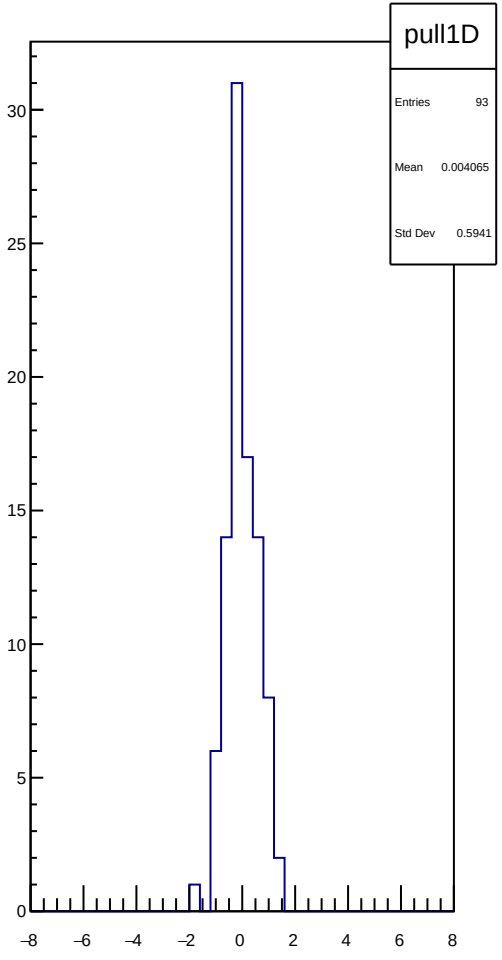

pull1D
Entries 93
Mean 0.007023
Std Dev 0.4936

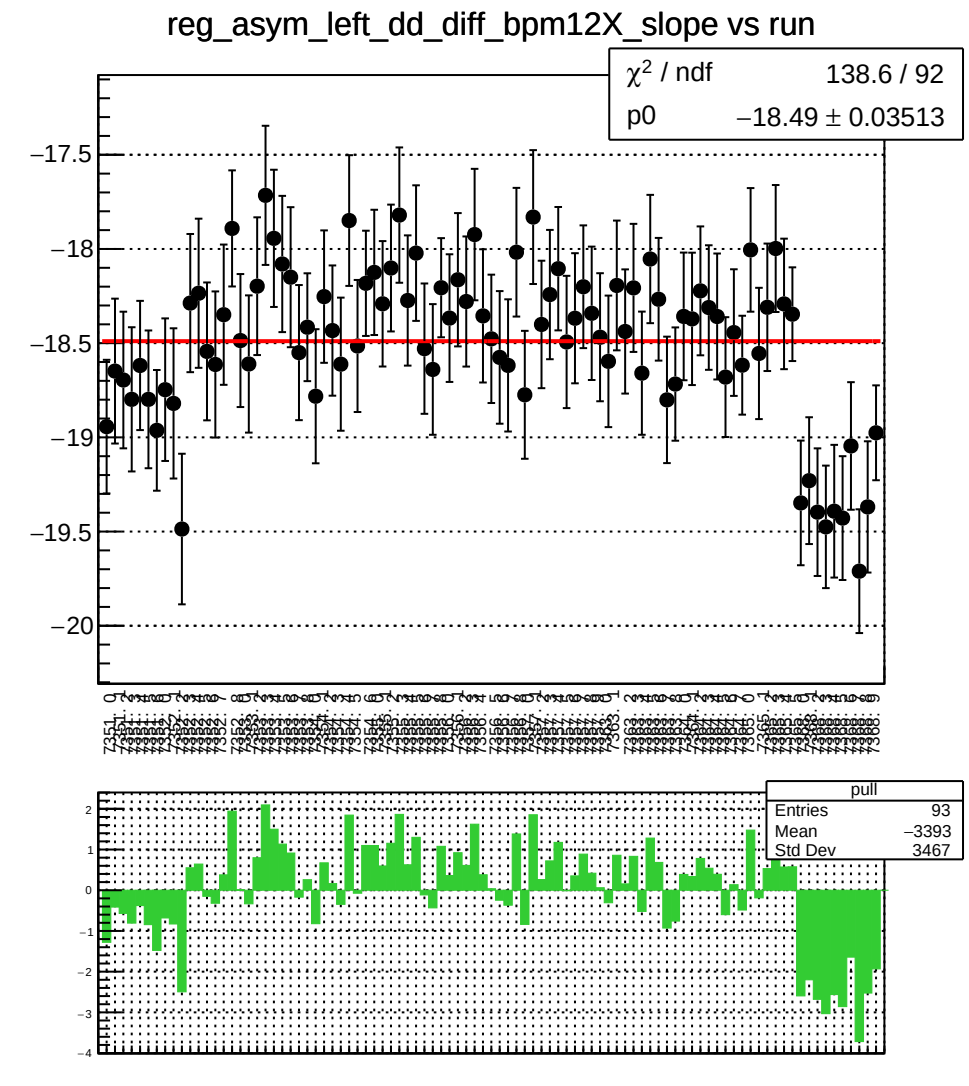

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 31.78 / 92
p0 2.752 ± 0.7
pull
Entries 93
Mean −113.8
Std Dev 180.3
pull1D
Entries 93
Mean −0.005902
Std Dev 0.5845

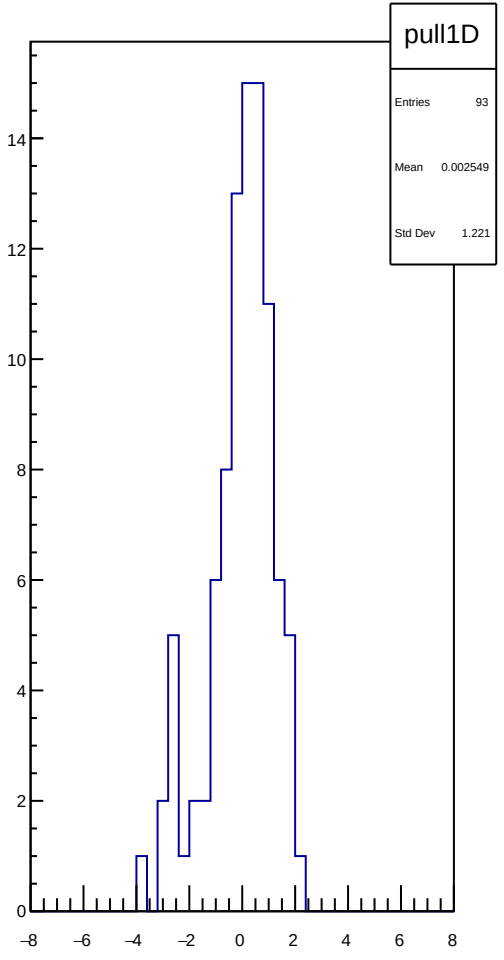

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 23.18 / 92
p0 5.334 ± 0.7134
pull
Entries 93
Mean −184.6
Std Dev 234.2

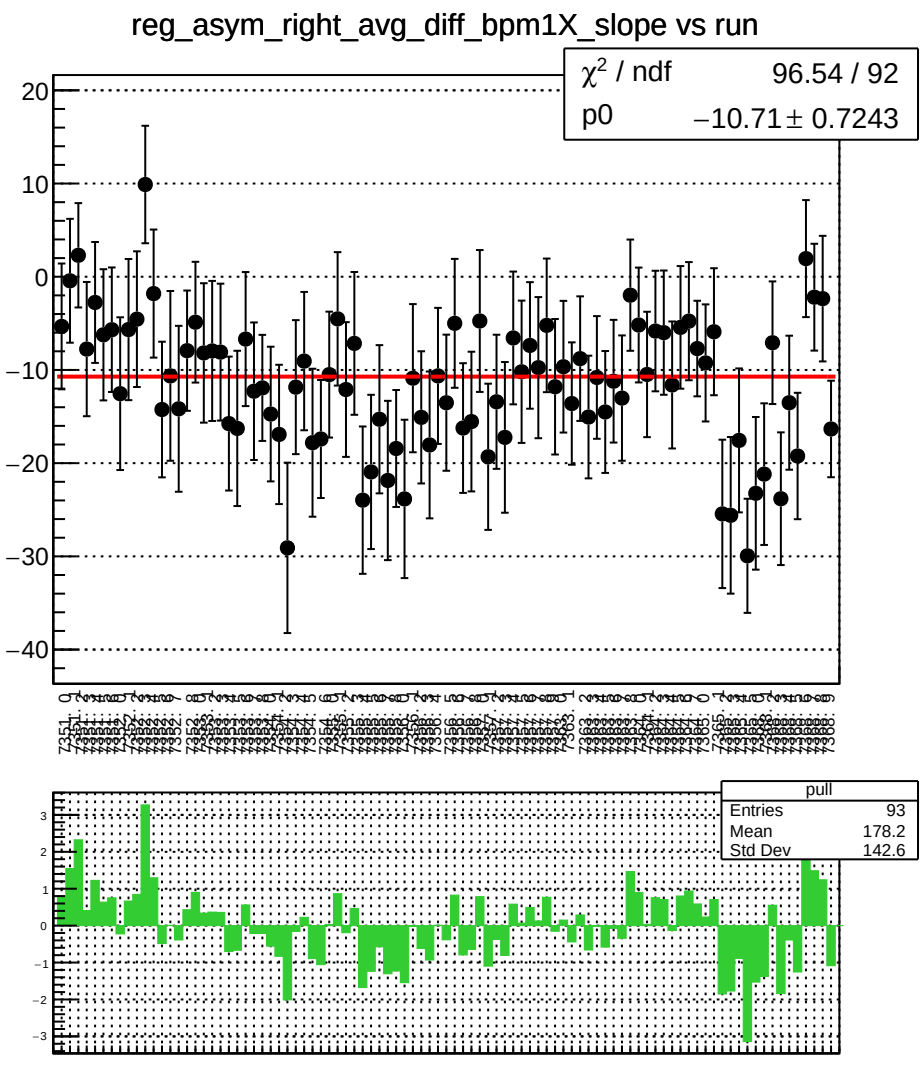

pull1D
Entries 93
Mean −0.009362
Std Dev 0.4991

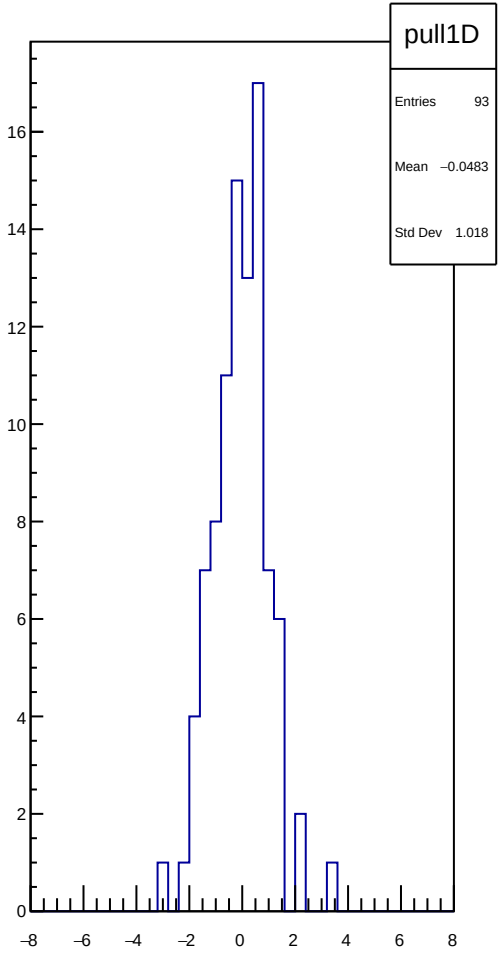

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 32.83 / 92
p0 7.587 ± 0.7444
pull
Entries 93
Mean −377.4
Std Dev 434.4

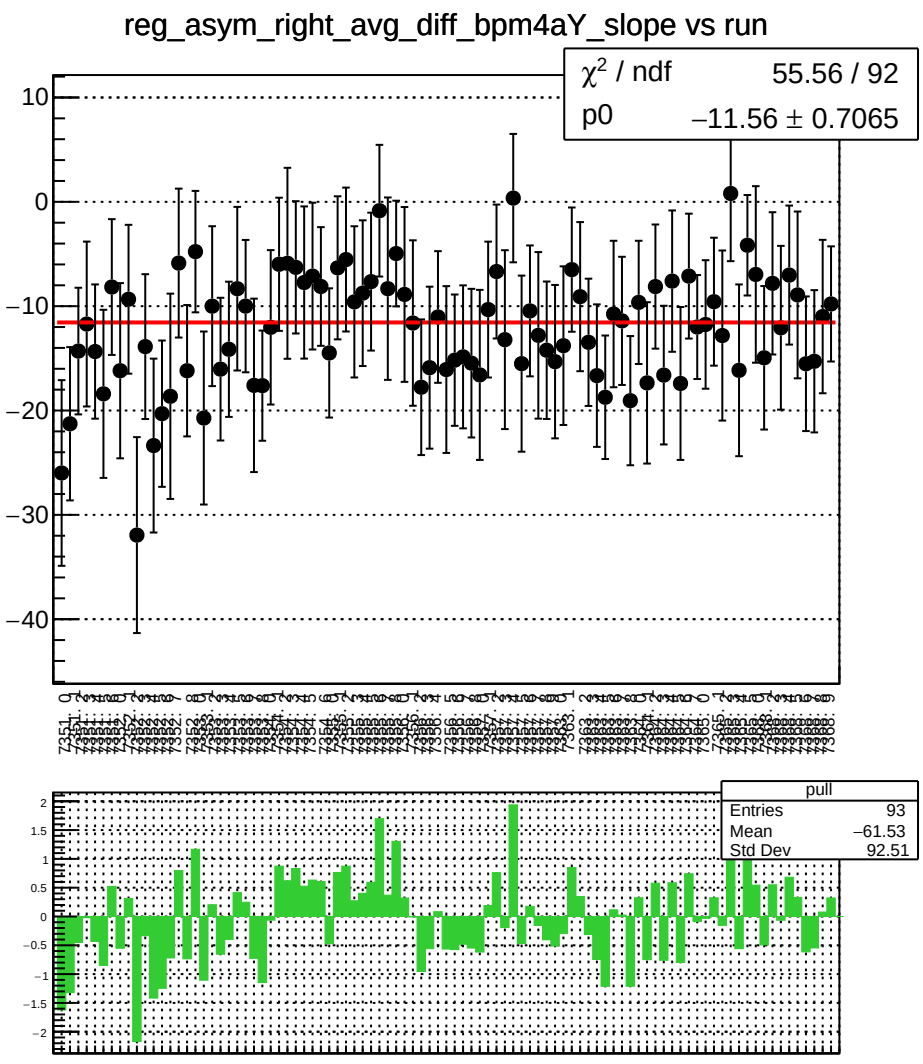

pull1D
Entries 93
Mean 0.004065
Std Dev 0.5941

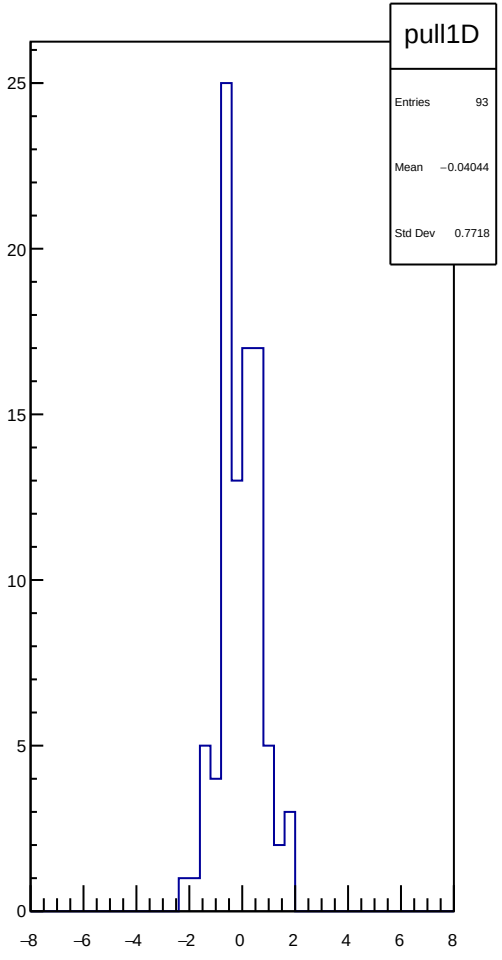

reg_asym_left_dd_diff_bpm12X_slope vs run
χ² / ndf 138.6 / 92
p0 −18.49 ± 0.03513
−17.5
−18
−18.5
−19
−19.5
−20
pull
Entries 93
Mean −3393
Std Dev 3467
2
1
0
−1
−2
−3
−4

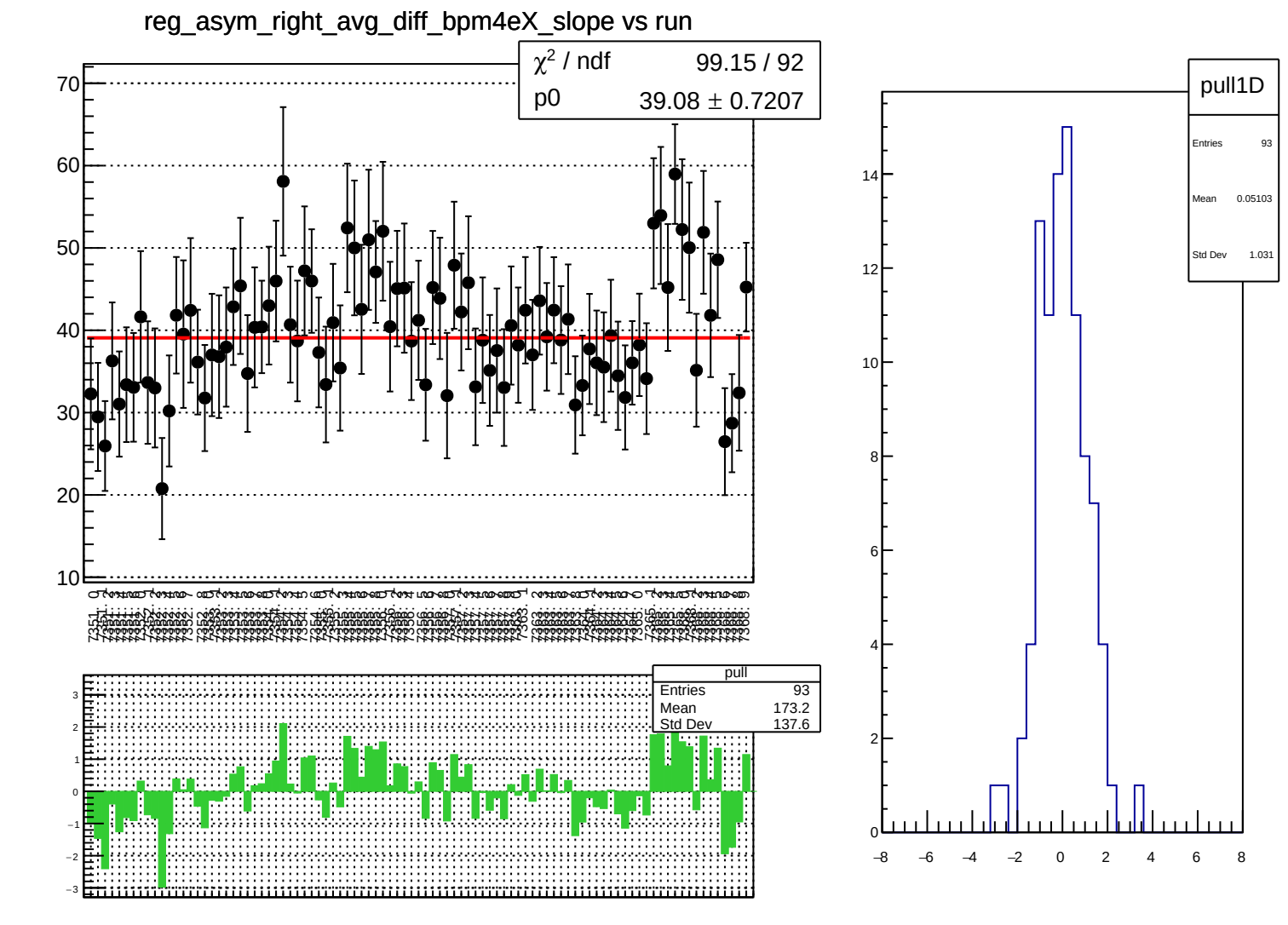

pull1D
Entries 93
Mean 0.002549
Std Dev 1.221
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

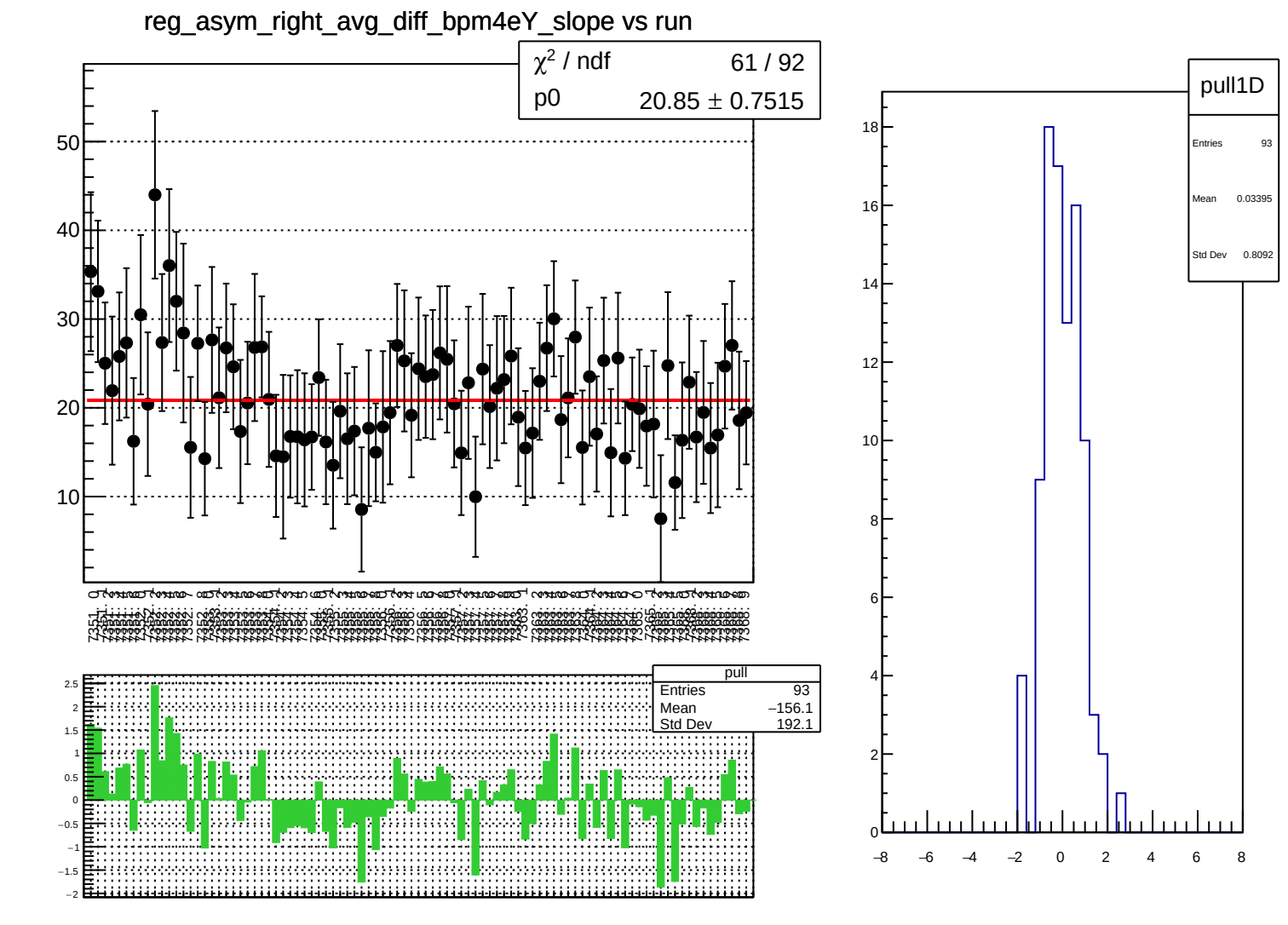

reg_asym_right_avg_diff_bpm1X_slope vs run
χ² / ndf 96.54 / 92
p0 −10.71 ± 0.7243
pull
Entries 93
Mean 178.2
Std Dev 142.6

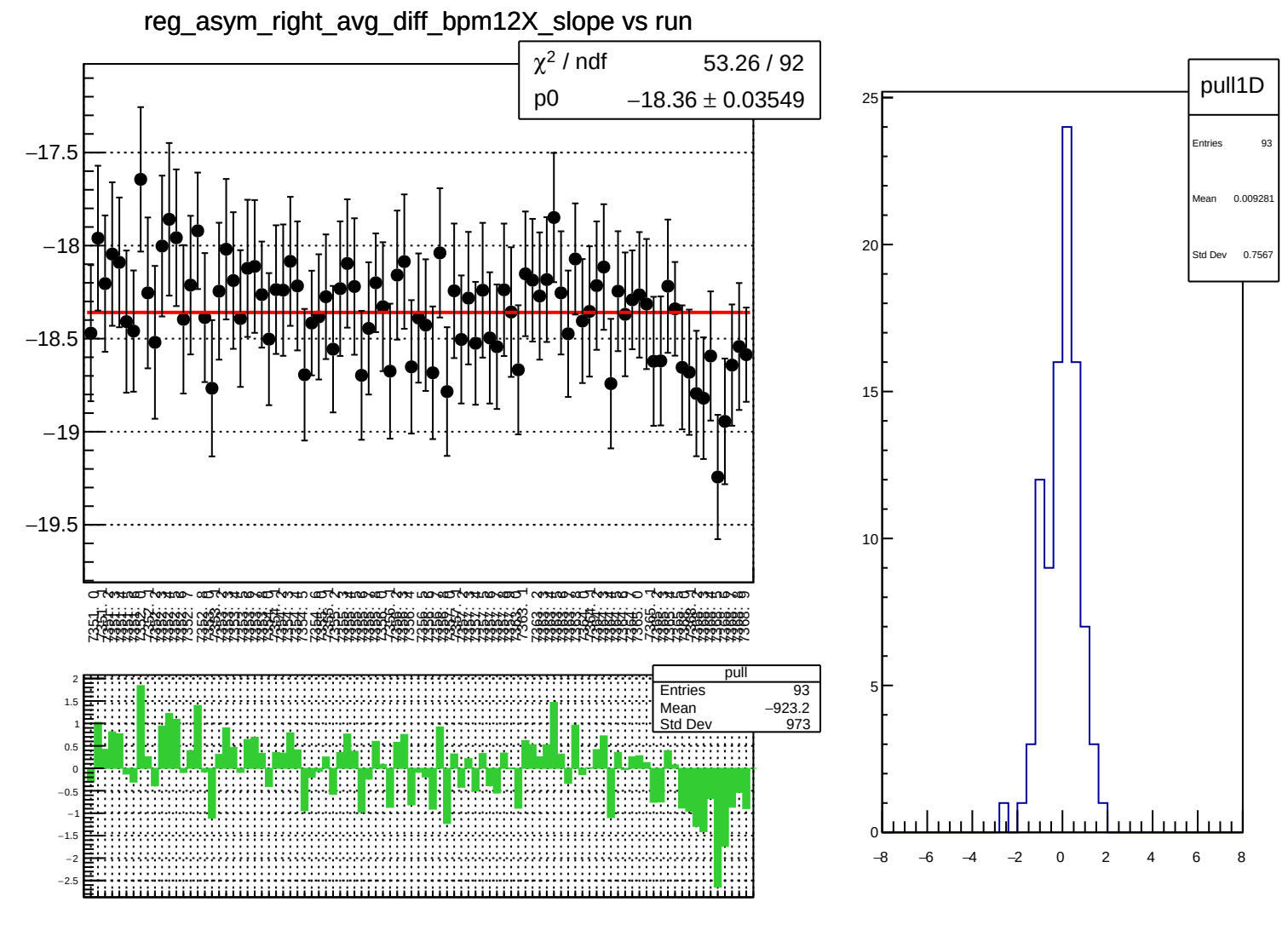

pull1D
Entries 93
Mean −0.0483
Std Dev 1.018

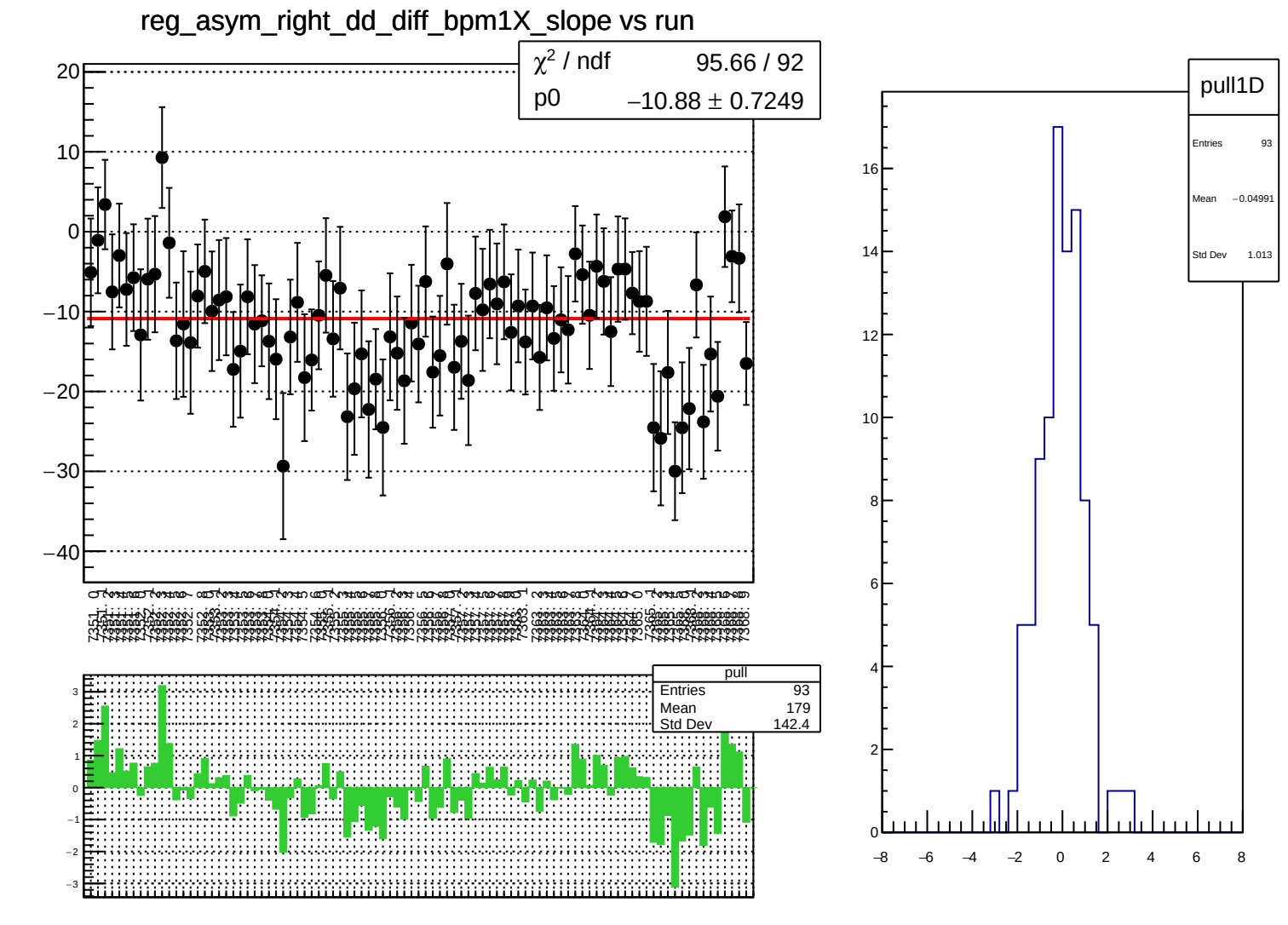

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 55.56 / 92
p0 −11.56 ± 0.7065
pull
Entries 93
Mean −61.53
Std Dev 92.51

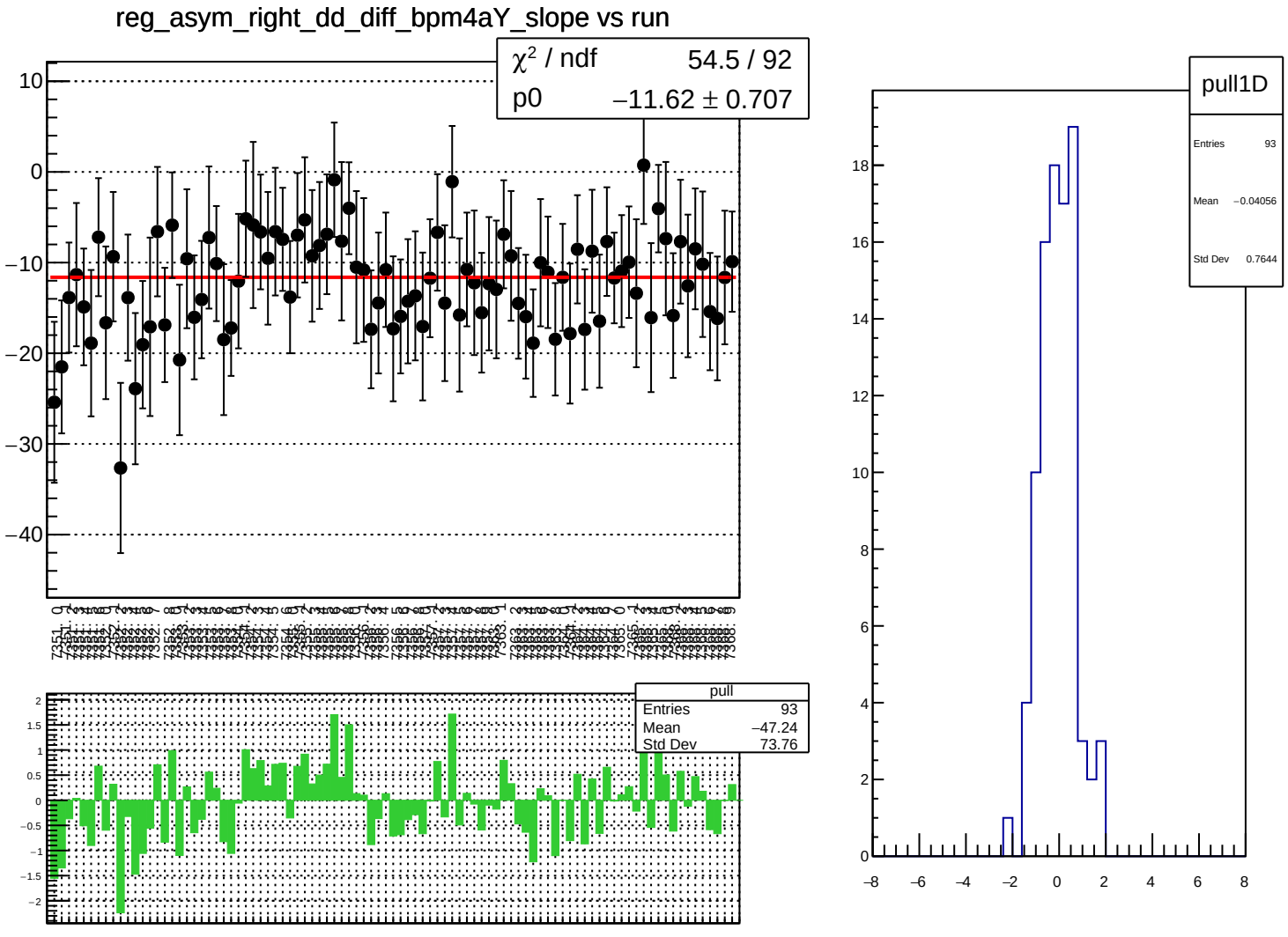

pull1D
Entries 93
Mean −0.04044
Std Dev 0.7718

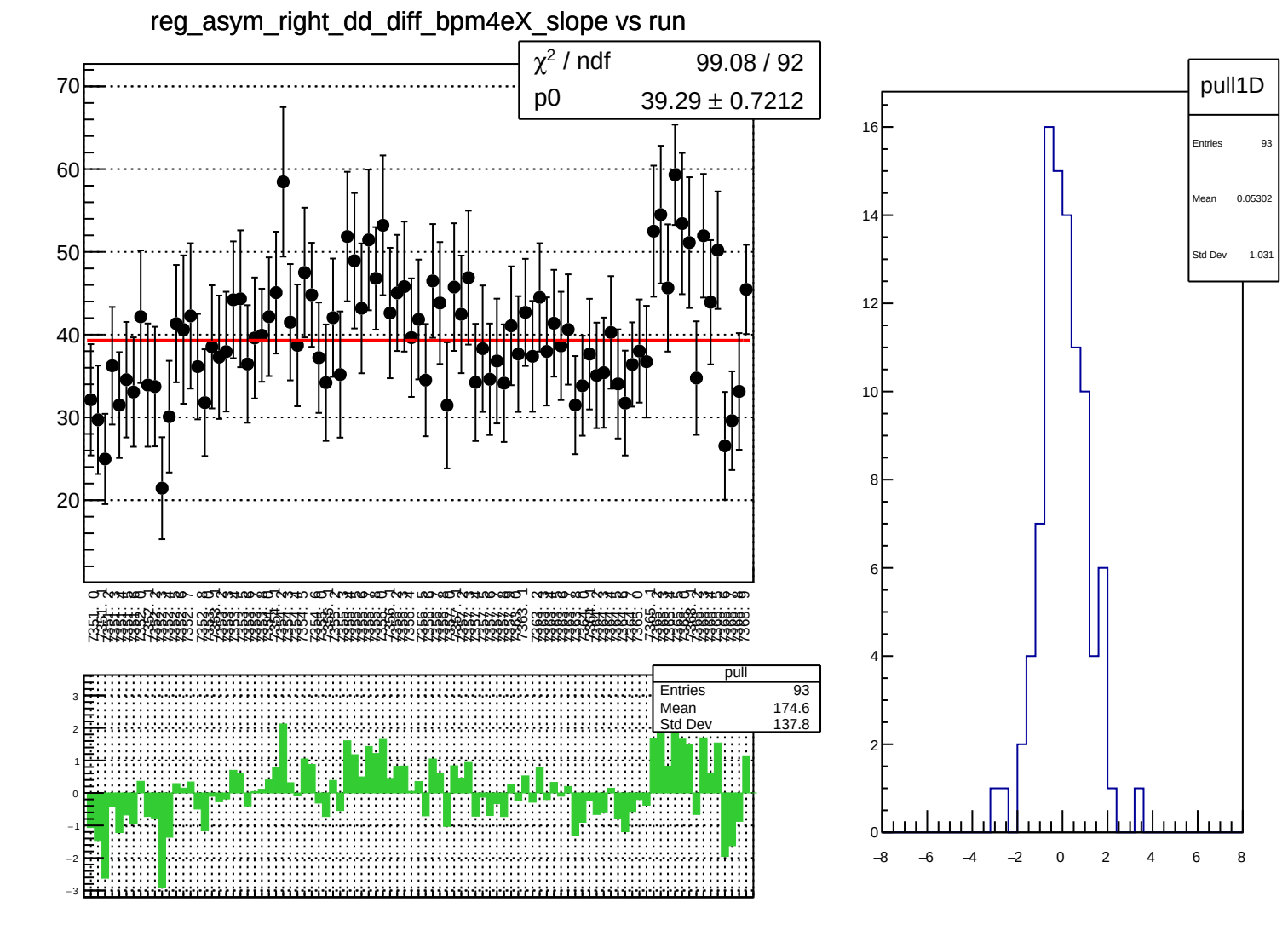

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.15 / 92
p0 39.08 ± 0.7207
pull
Entries 93
Mean 173.2
Std Dev 137.6
pull1D
Entries 93
Mean 0.05103
Std Dev 1.031

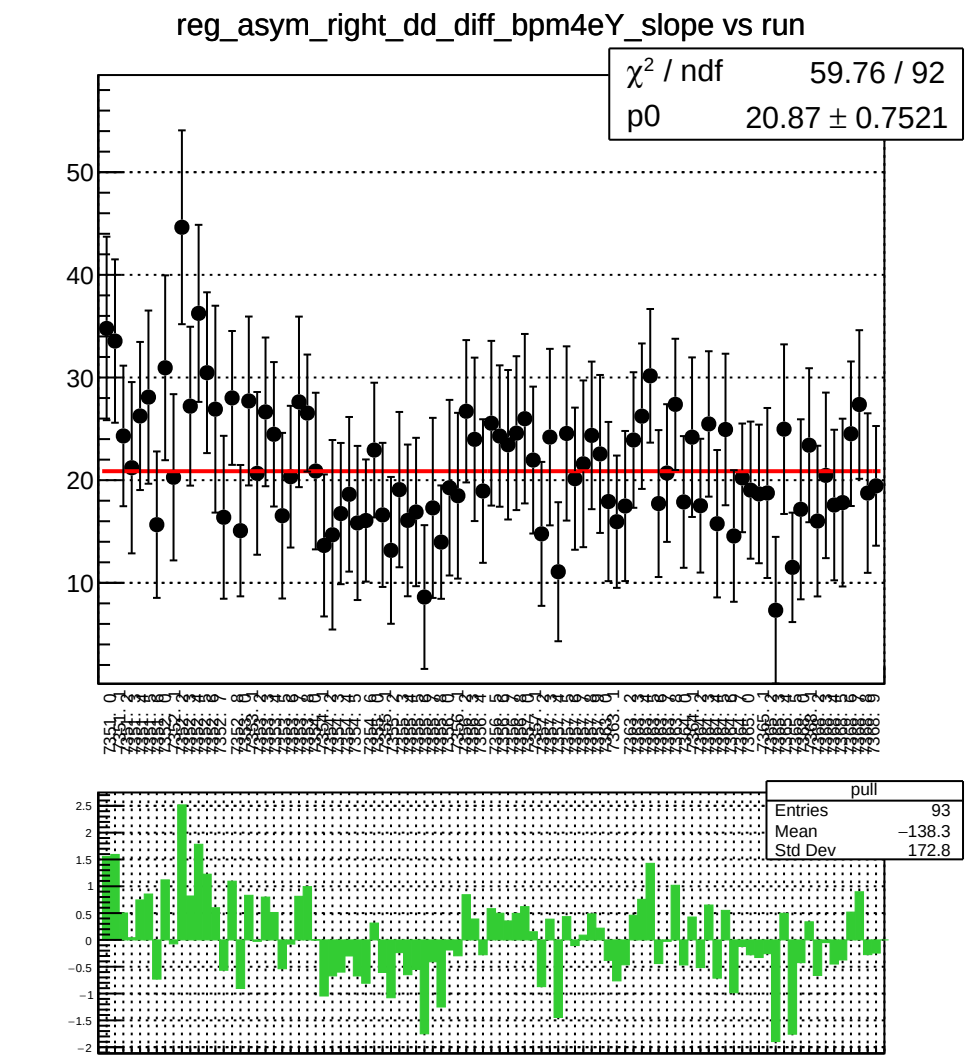

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 61 / 92
p0 20.85 ± 0.7515
pull
Entries 93
Mean −156.1
Std Dev 192.1
pull1D
Entries 93
Mean 0.03395
Std Dev 0.8092

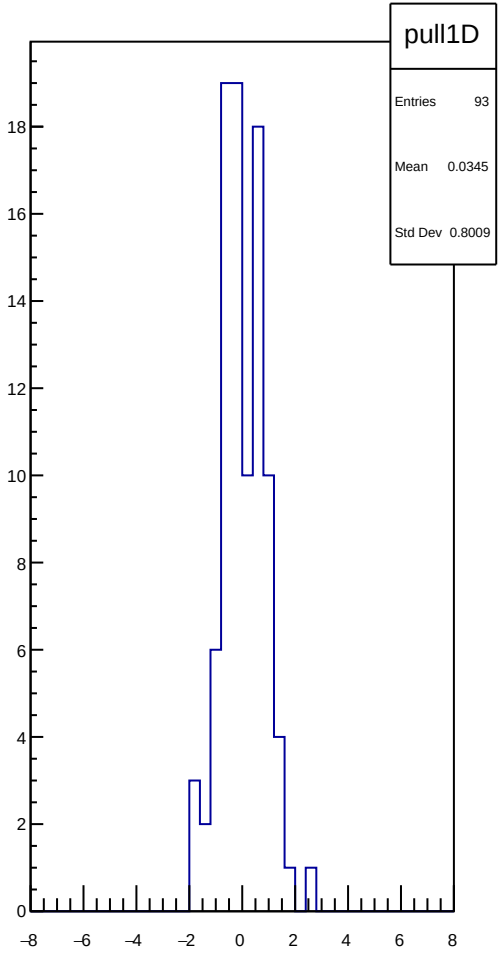

reg_asym_right_avg_diff_bpm12X_slope vs run
χ² / ndf 53.26 / 92
p0 −18.36 ± 0.03549
−17.5
−18
−18.5
−19
−19.5
pull
Entries 93
Mean −923.2
Std Dev 973
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.009281
Std Dev 0.7567
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

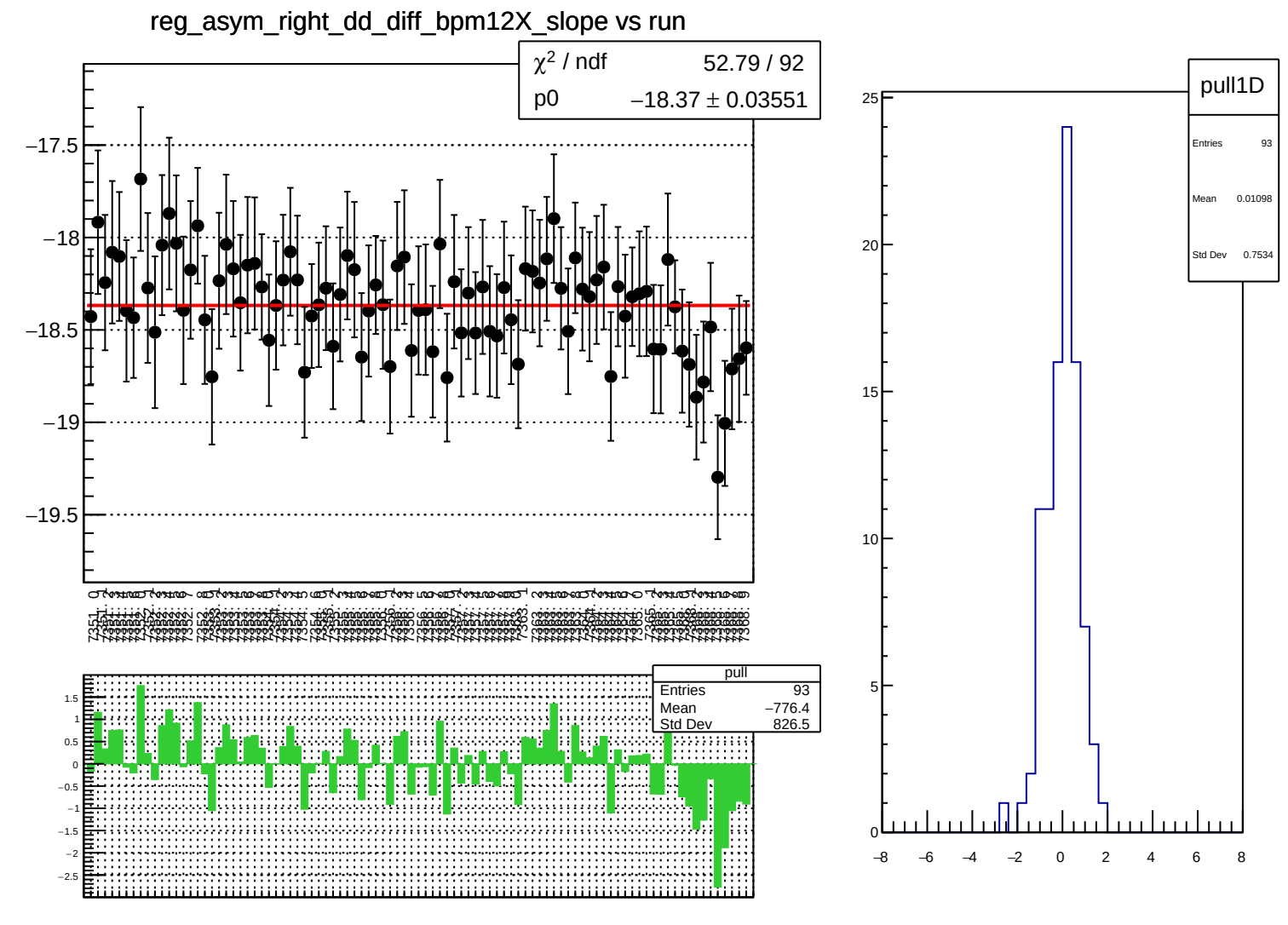

reg_asym_right_dd_diff_bpm1X_slope vs run
χ² / ndf 95.66 / 92
p0 −10.88 ± 0.7249
pull
Entries 93
Mean 179
Std Dev 142.4
pull1D
Entries 93
Mean −0.04991
Std Dev 1.013

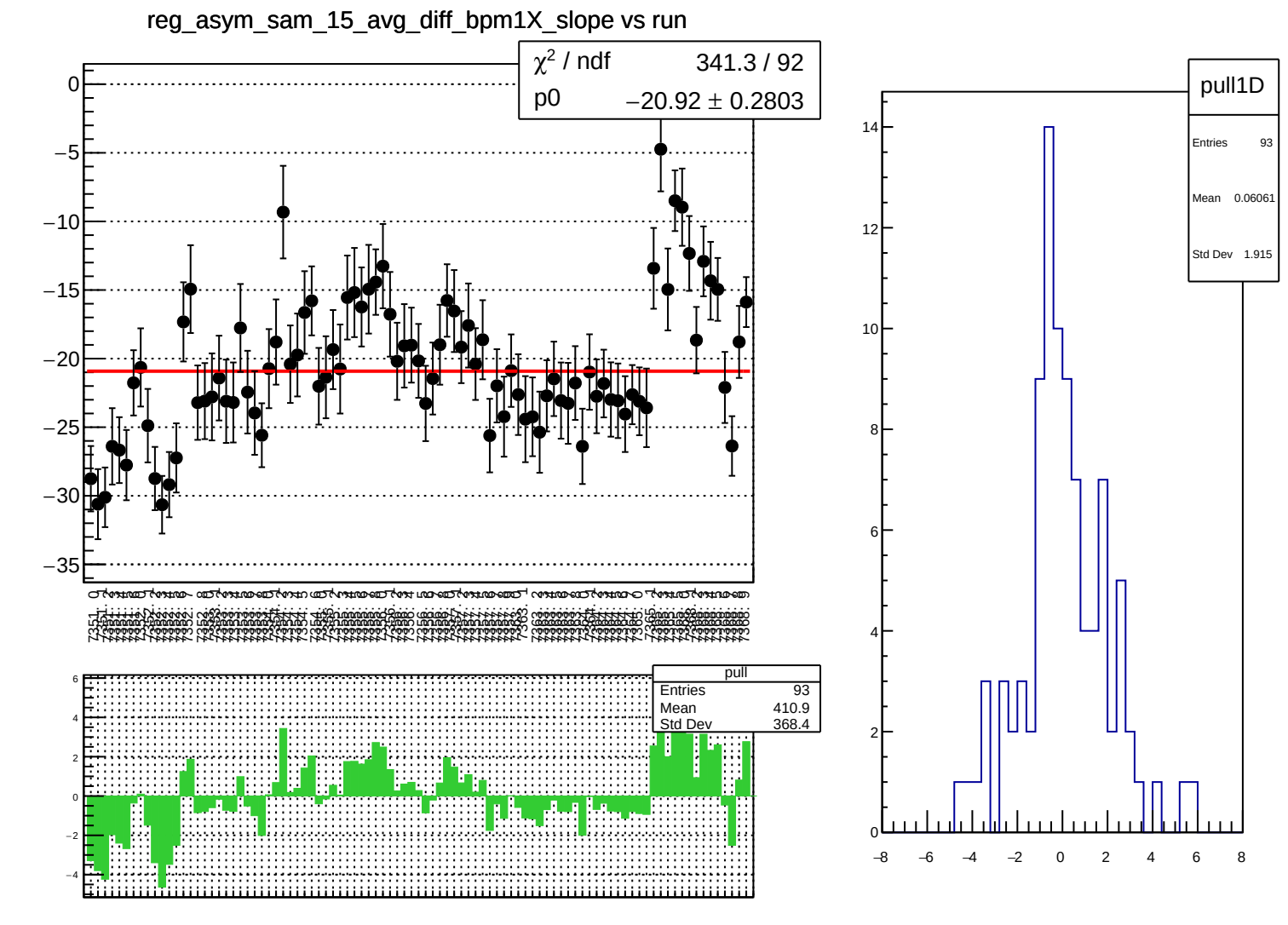

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 54.5 / 92
p0 −11.62 ± 0.707
pull
Entries 93
Mean −47.24
Std Dev 73.76
pull1D
Entries 93
Mean −0.04056
Std Dev 0.7644

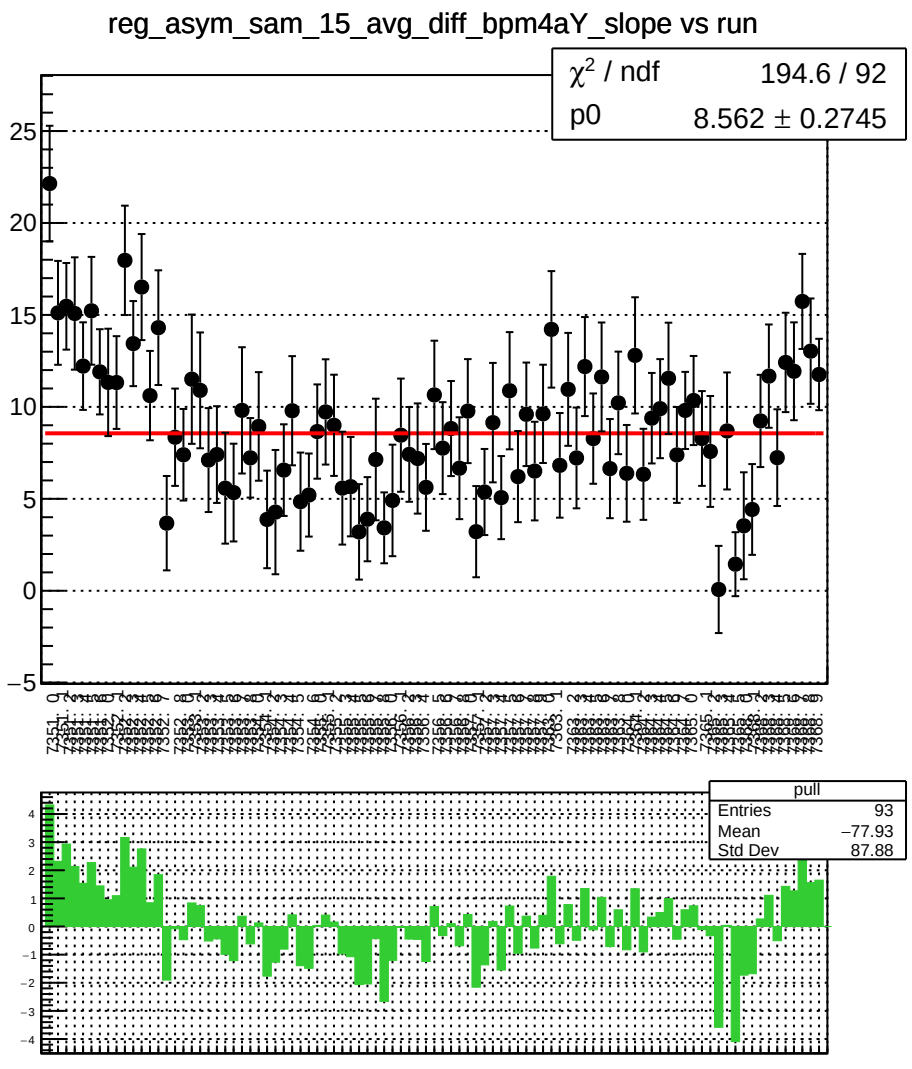

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 99.08 / 92
p0 39.29 ± 0.7212
pull
Entries 93
Mean 174.6
Std Dev 137.8
pull1D
Entries 93
Mean 0.05302
Std Dev 1.031

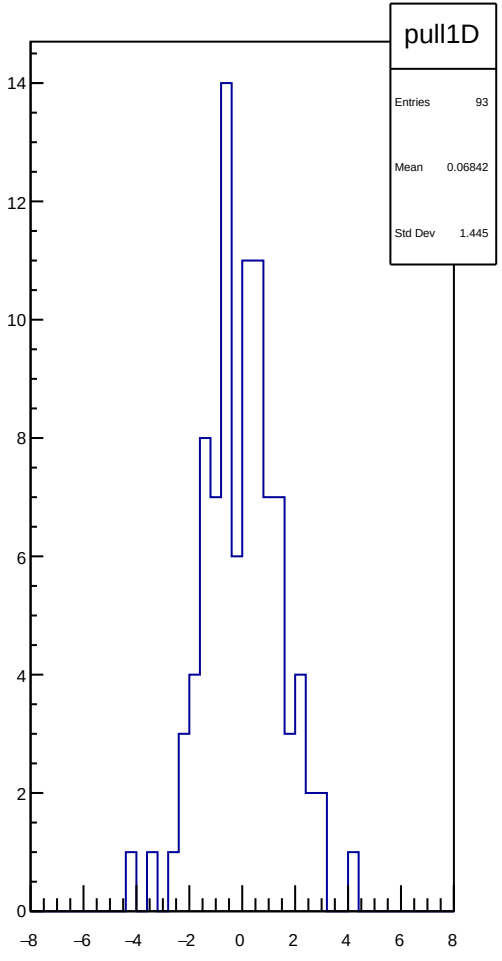

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 59.76 / 92
p0 20.87 ± 0.7521
pull
Entries 93
Mean −138.3
Std Dev 172.8

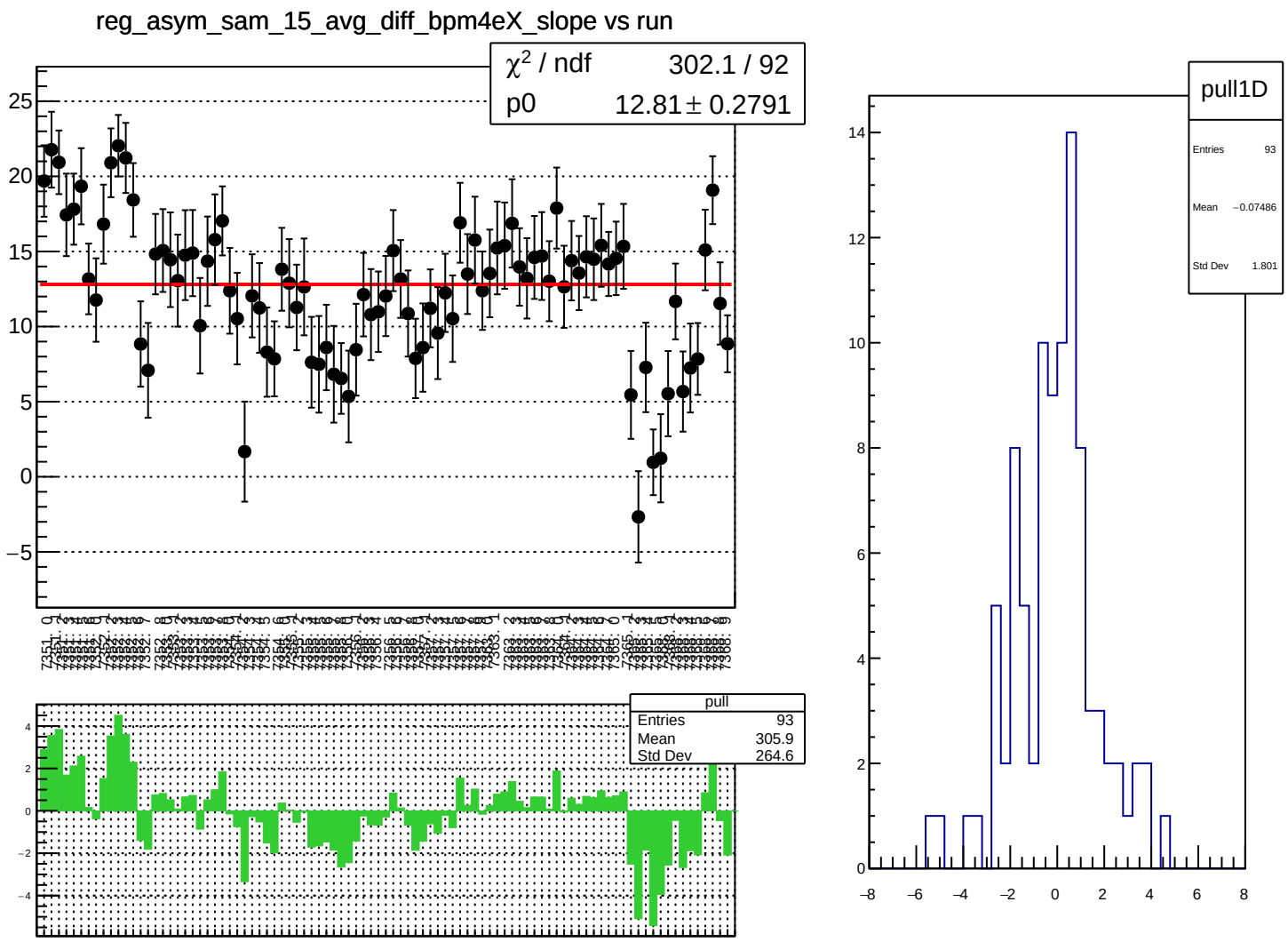

pull1D
Entries 93
Mean 0.0345
Std Dev 0.8009

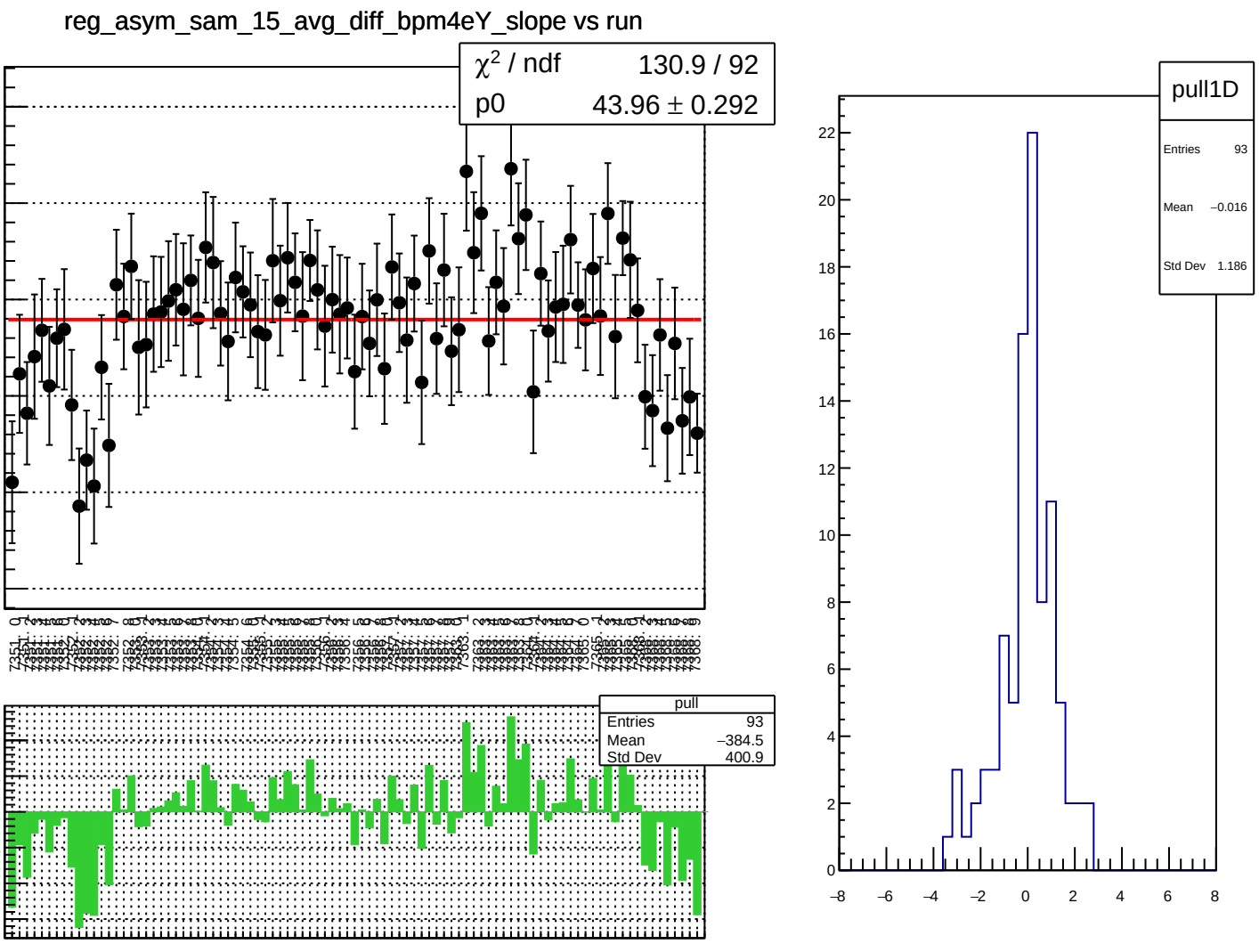

reg_asym_right_dd_diff_bpm12X_slope vs run
χ² / ndf 52.79 / 92
p0 −18.37 ± 0.03551
−17.5
−18
−18.5
−19
−19.5
pull
Entries 93
Mean −776.4
Std Dev 826.5
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 93
Mean 0.01098
Std Dev 0.7534
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

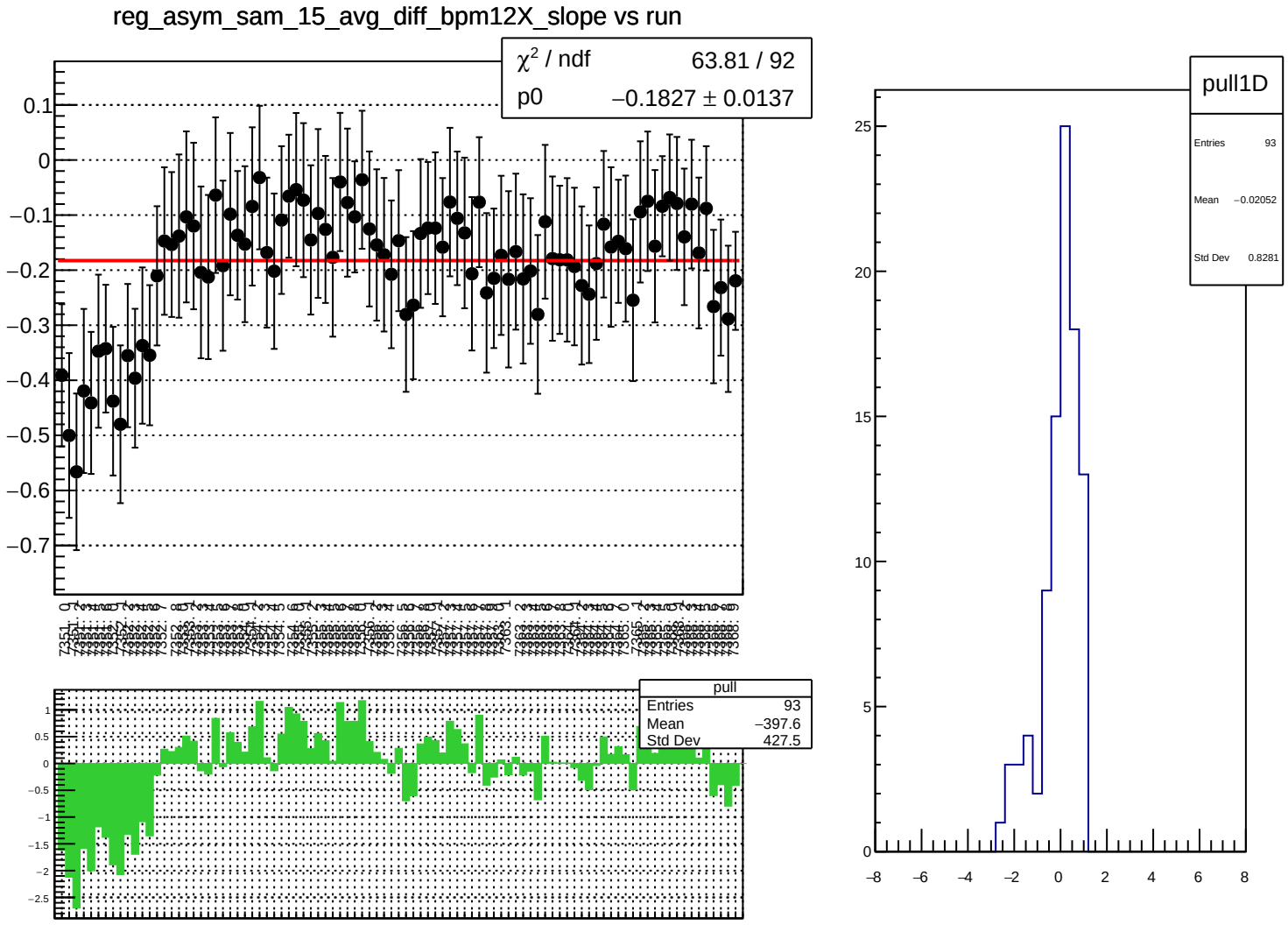

reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ² / ndf 341.3 / 92
p0 −20.92 ± 0.2803
pull
Entries 93
Mean 410.9
Std Dev 368.4
pull1D
Entries 93
Mean 0.06061
Std Dev 1.915

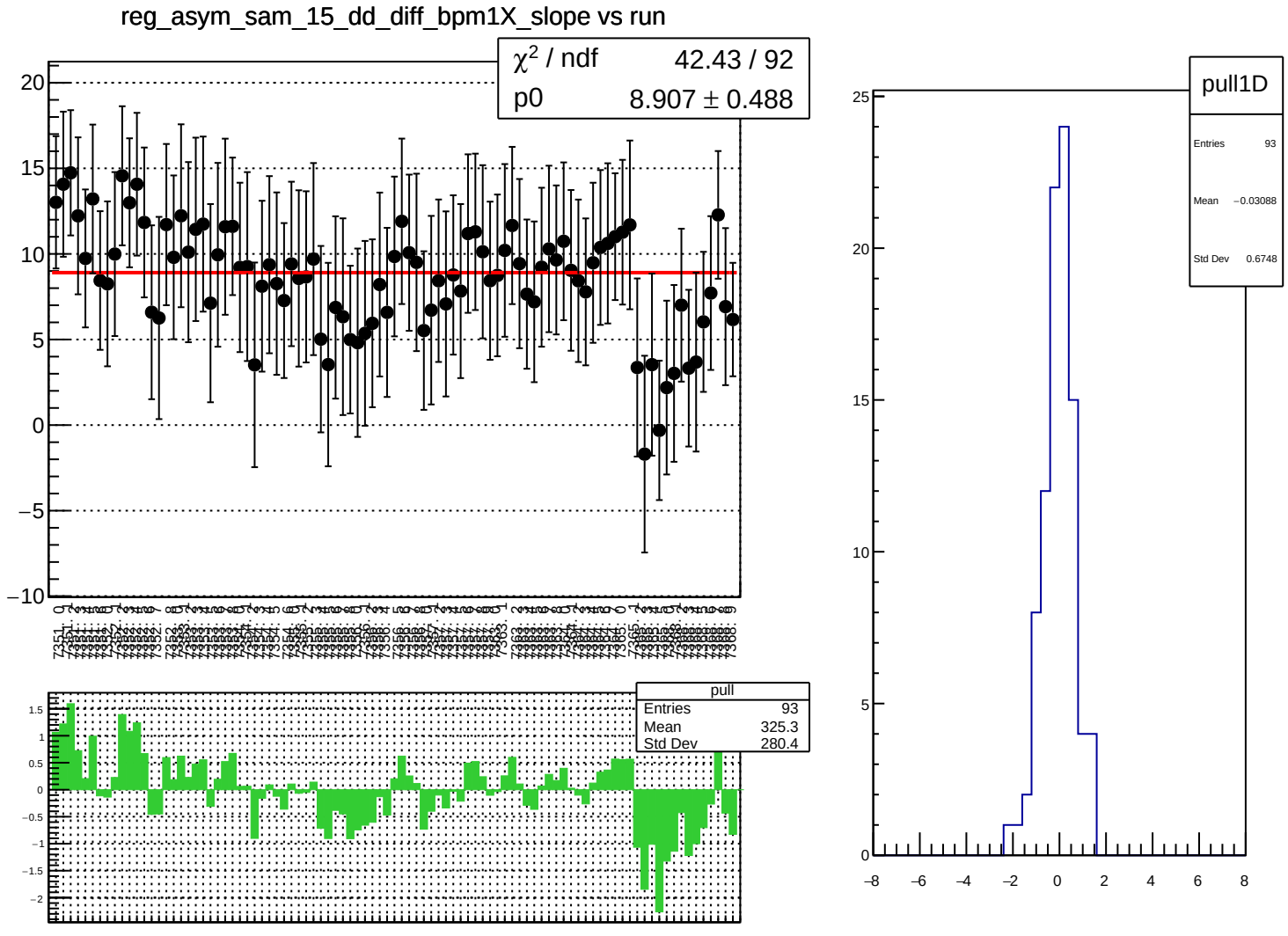

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 194.6 / 92
p0 8.562 ± 0.2745
pull
Entries 93
Mean −77.93
Std Dev 87.88

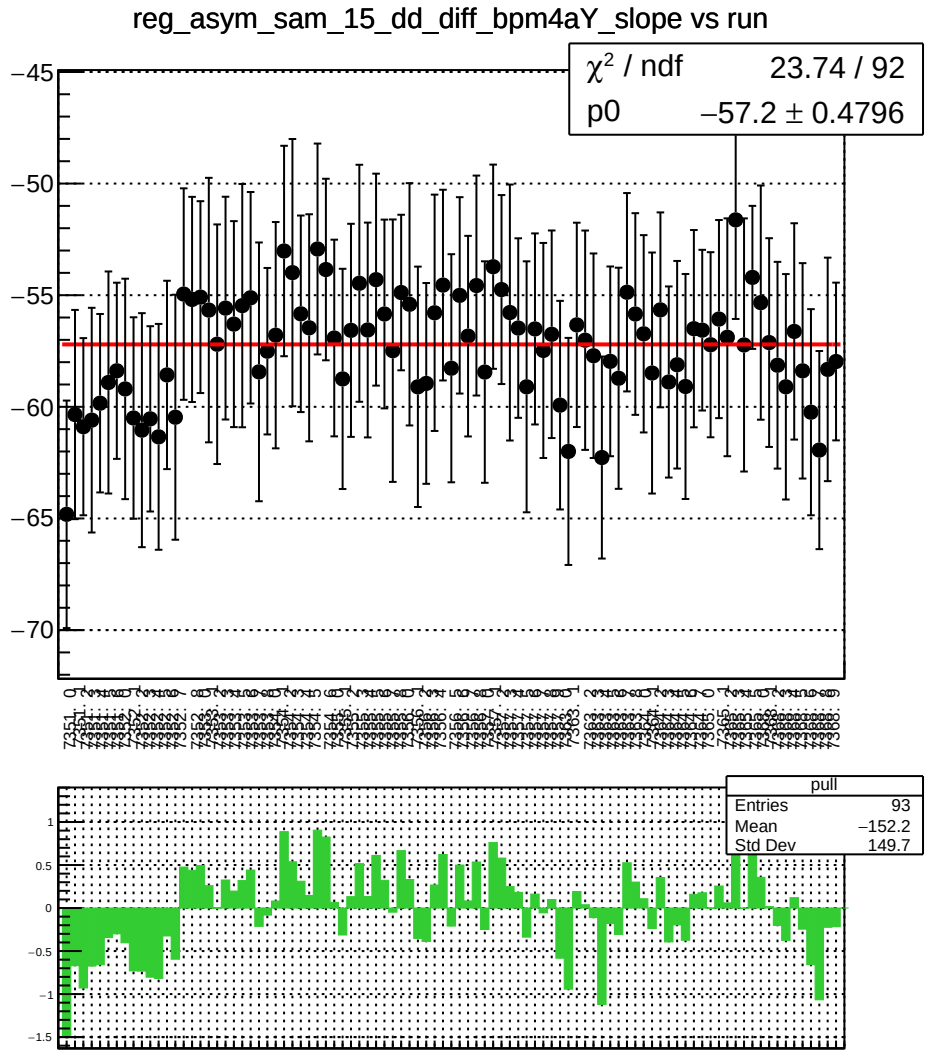

pull1D
Entries 93
Mean 0.06842
Std Dev 1.445

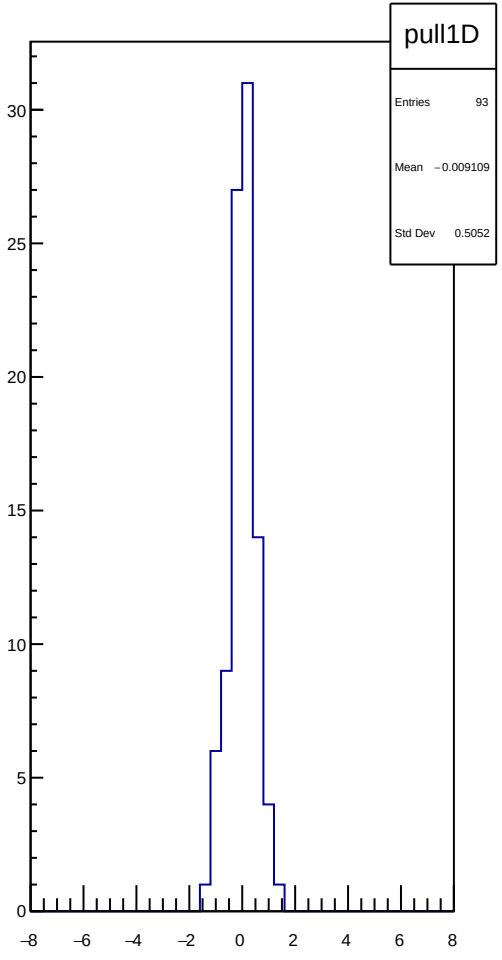

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 302.1 / 92
p0 12.81 ± 0.2791
pull
Entries 93
Mean 305.9
Std Dev 264.6
pull1D
Entries 93
Mean −0.07486
Std Dev 1.801

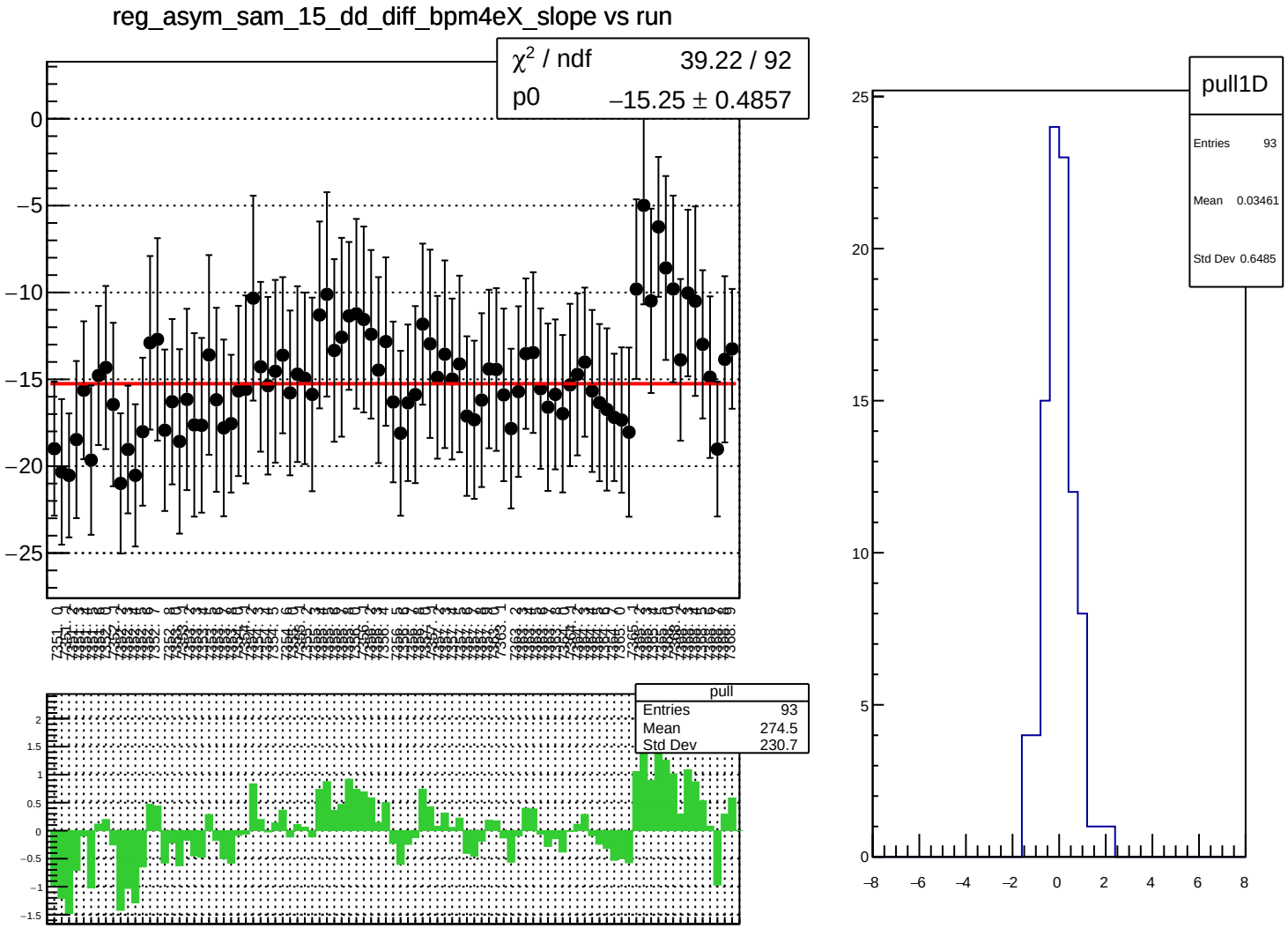

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 130.9 / 92
p0 43.96 ± 0.292
pull
Entries 93
Mean −384.5
Std Dev 400.9
pull1D
Entries 93
Mean −0.016
Std Dev 1.186

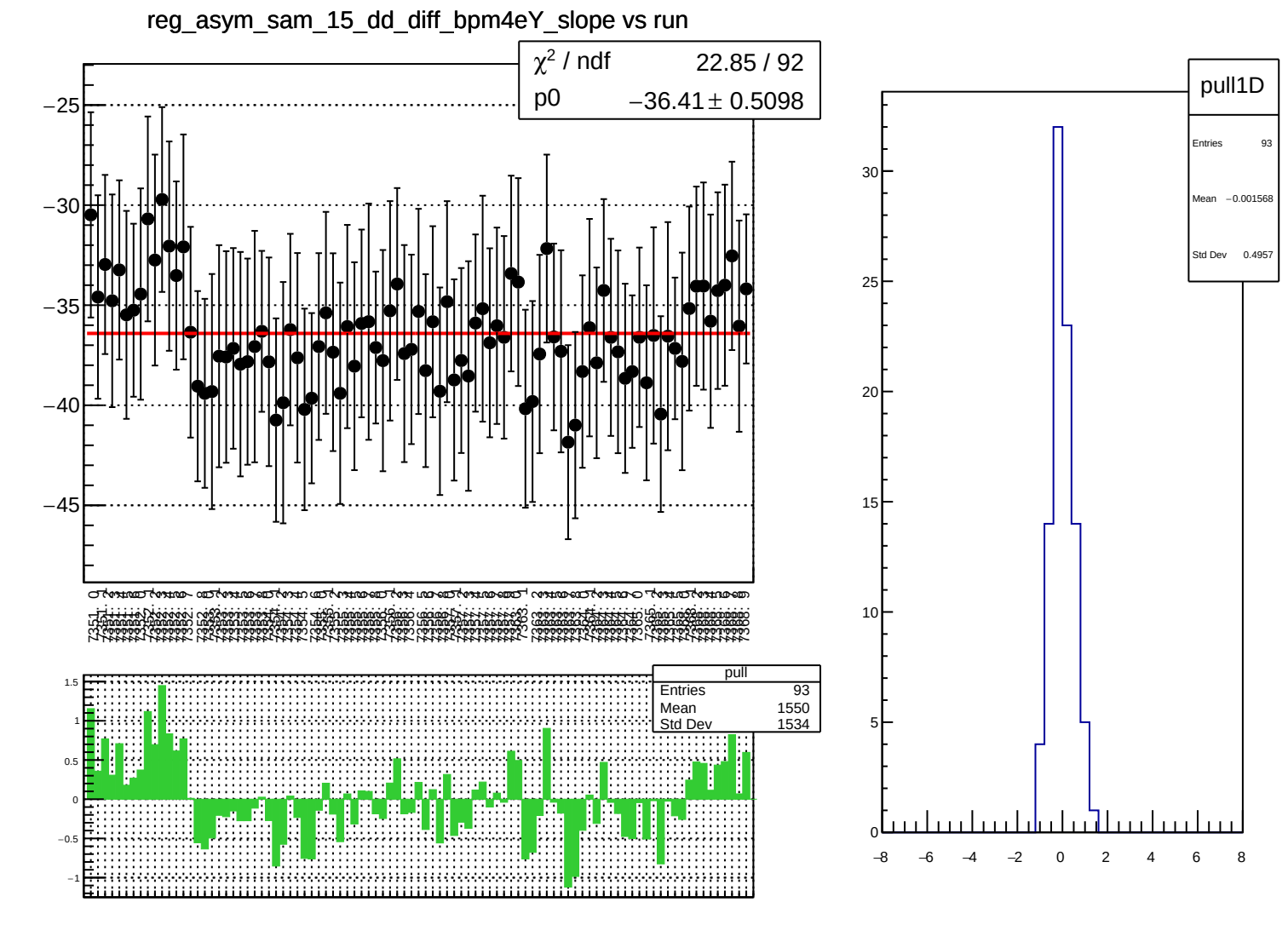

reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ² / ndf 63.81 / 92
p0 −0.1827 ± 0.0137
pull
Entries 93
Mean −397.6
Std Dev 427.5
pull1D
Entries 93
Mean −0.02052
Std Dev 0.8281

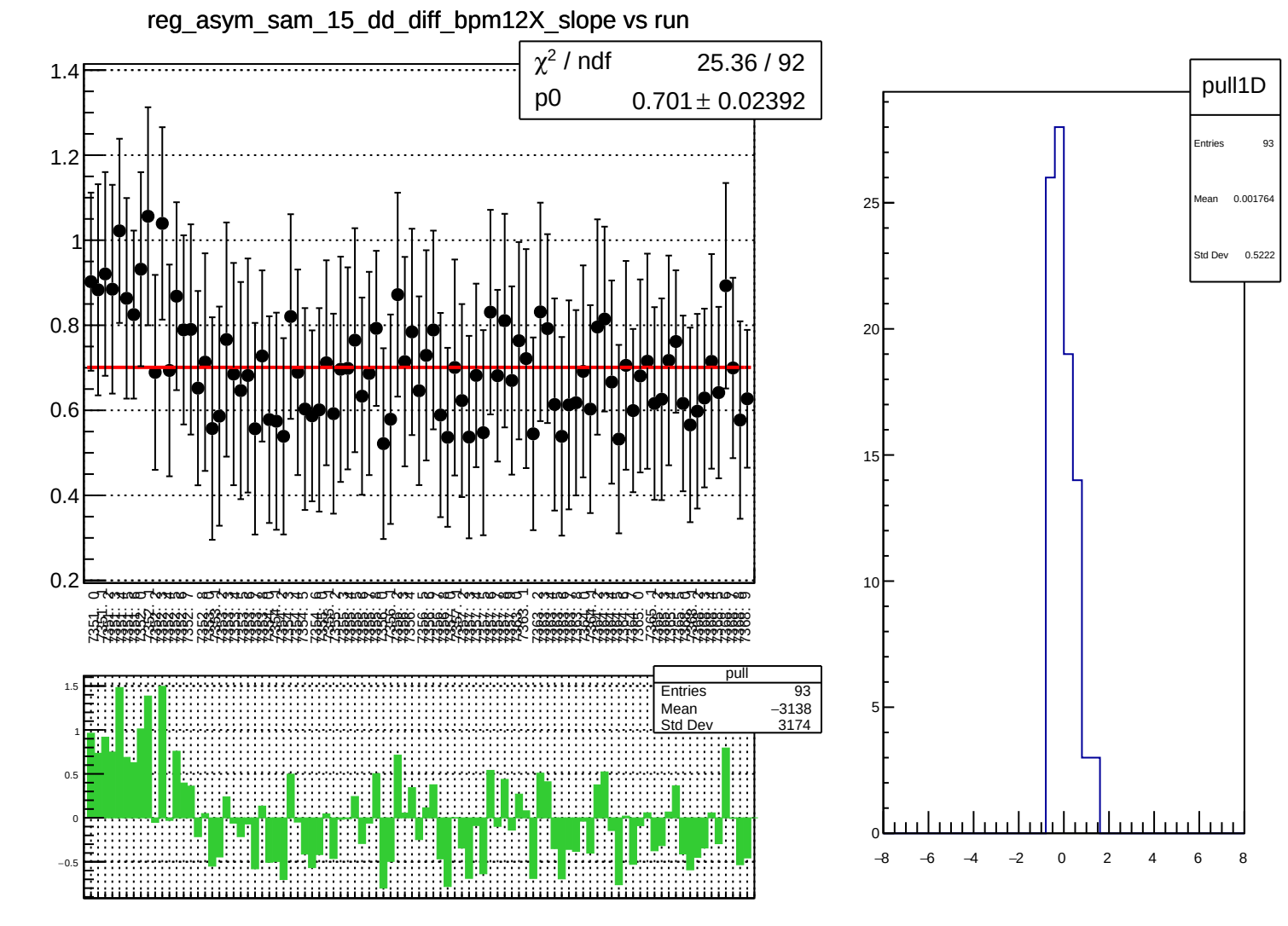

reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ² / ndf 42.43 / 92
p0 8.907 ± 0.488
pull
Entries 93
Mean 325.3
Std Dev 280.4
pull1D
Entries 93
Mean −0.03088
Std Dev 0.6748

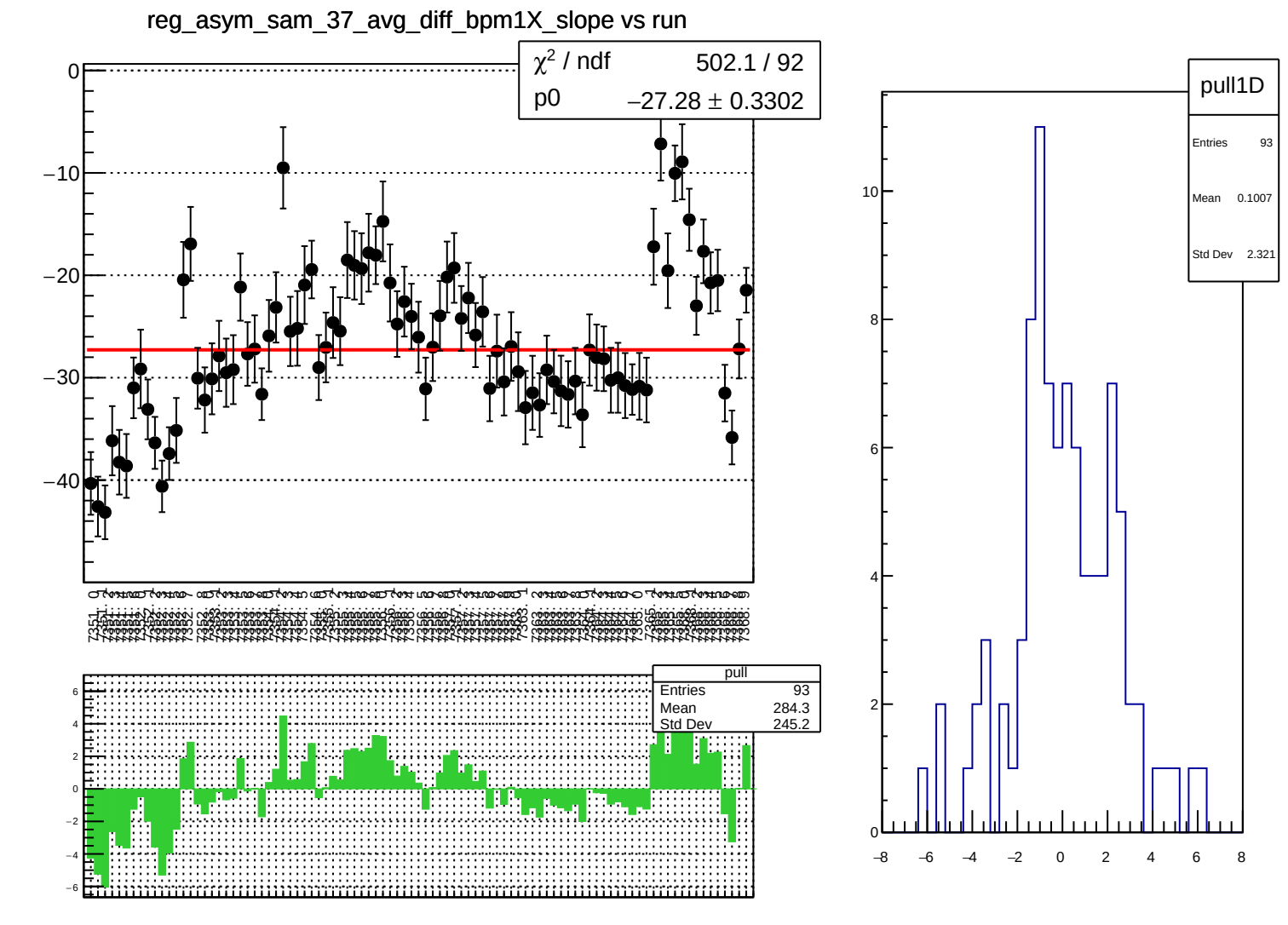

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 23.74 / 92
p0 −57.2 ± 0.4796
−45
−50
−55
−60
−65
−70
pull
Entries 93
Mean −152.2
Std Dev 149.7
1
0.5
0
−0.5
−1
−1.5

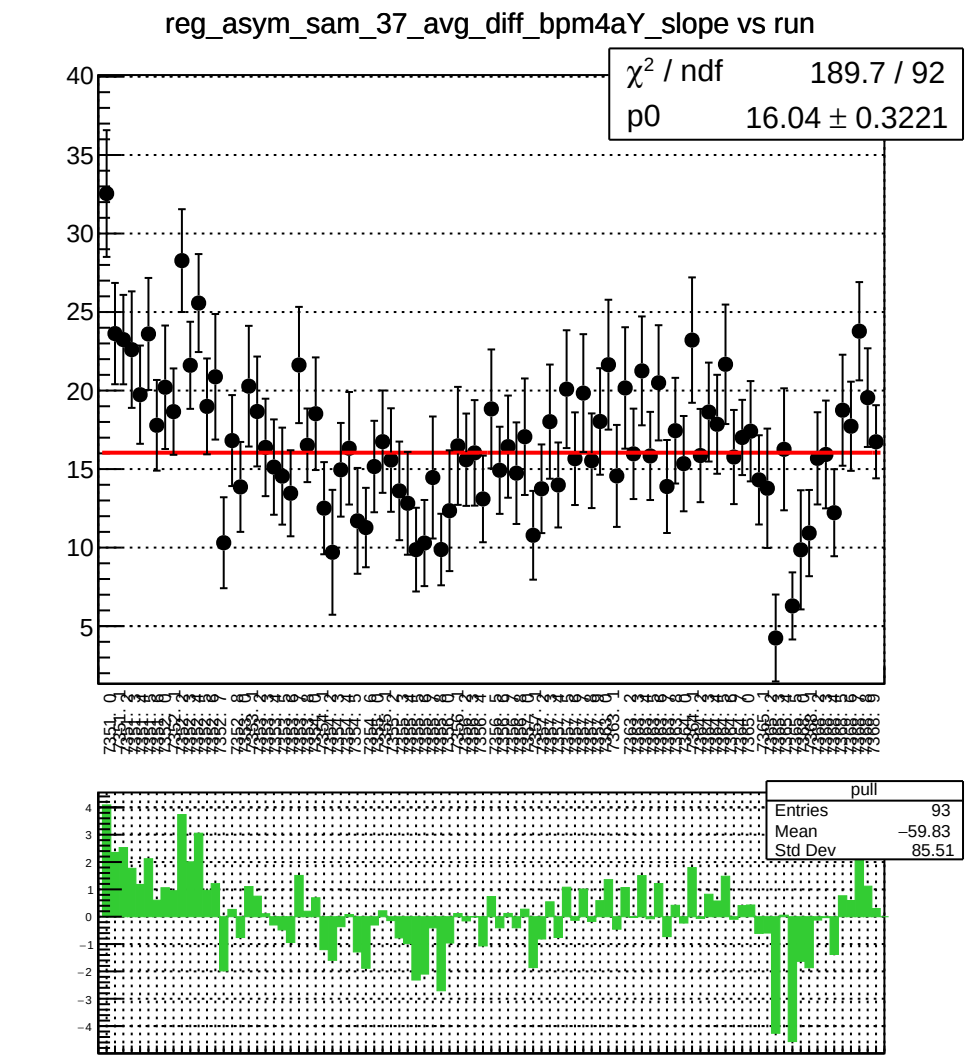

pull1D
Entries 93
Mean −0.009109
Std Dev 0.5052
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

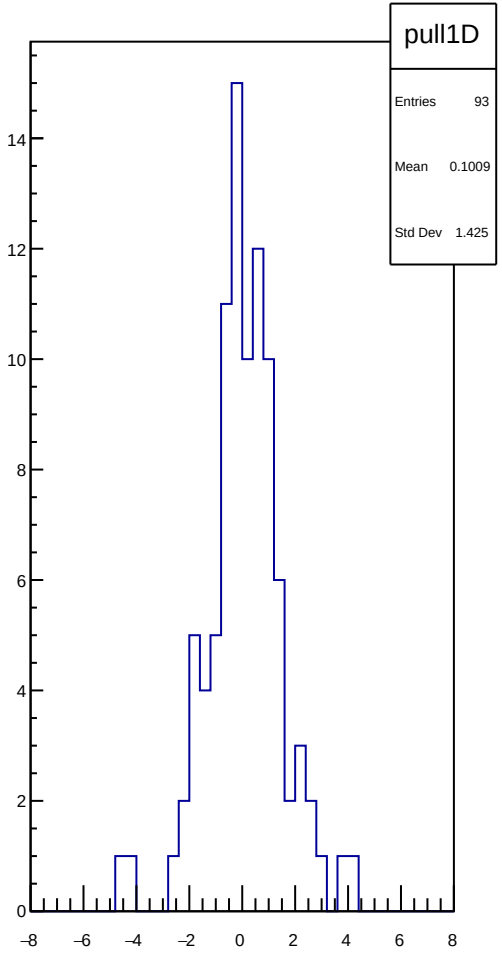

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 39.22 / 92
p0 −15.25 ± 0.4857
pull
Entries 93
Mean 274.5
Std Dev 230.7
pull1D
Entries 93
Mean 0.03461
Std Dev 0.6485

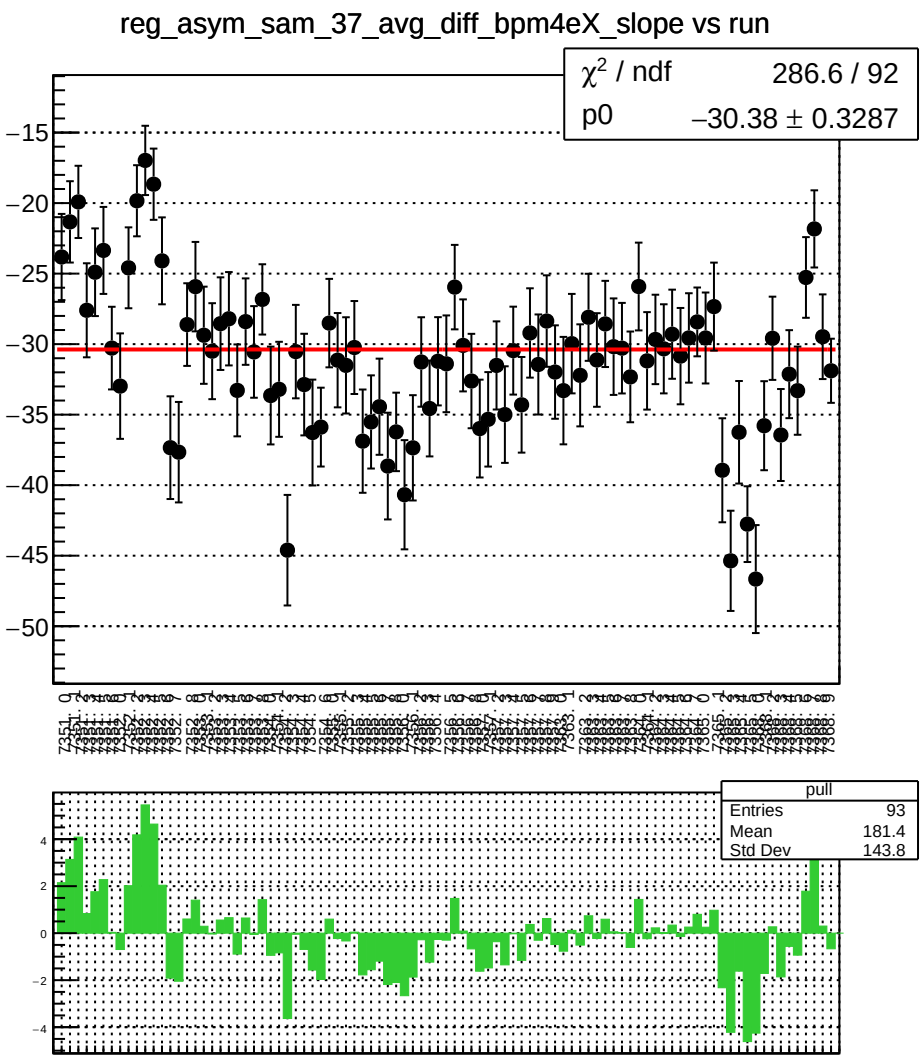

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 22.85 / 92
p0 −36.41 ± 0.5098
pull
Entries 93
Mean 1550
Std Dev 1534
pull1D
Entries 93
Mean −0.001568
Std Dev 0.4957

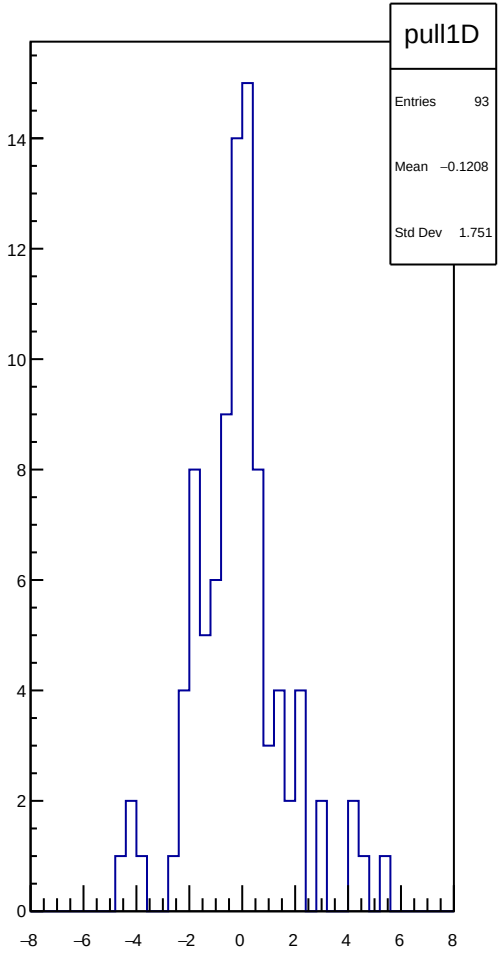

reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ² / ndf 25.36 / 92
p0 0.701 ± 0.02392
pull
Entries 93
Mean −3138
Std Dev 3174
pull1D
Entries 93
Mean 0.001764
Std Dev 0.5222

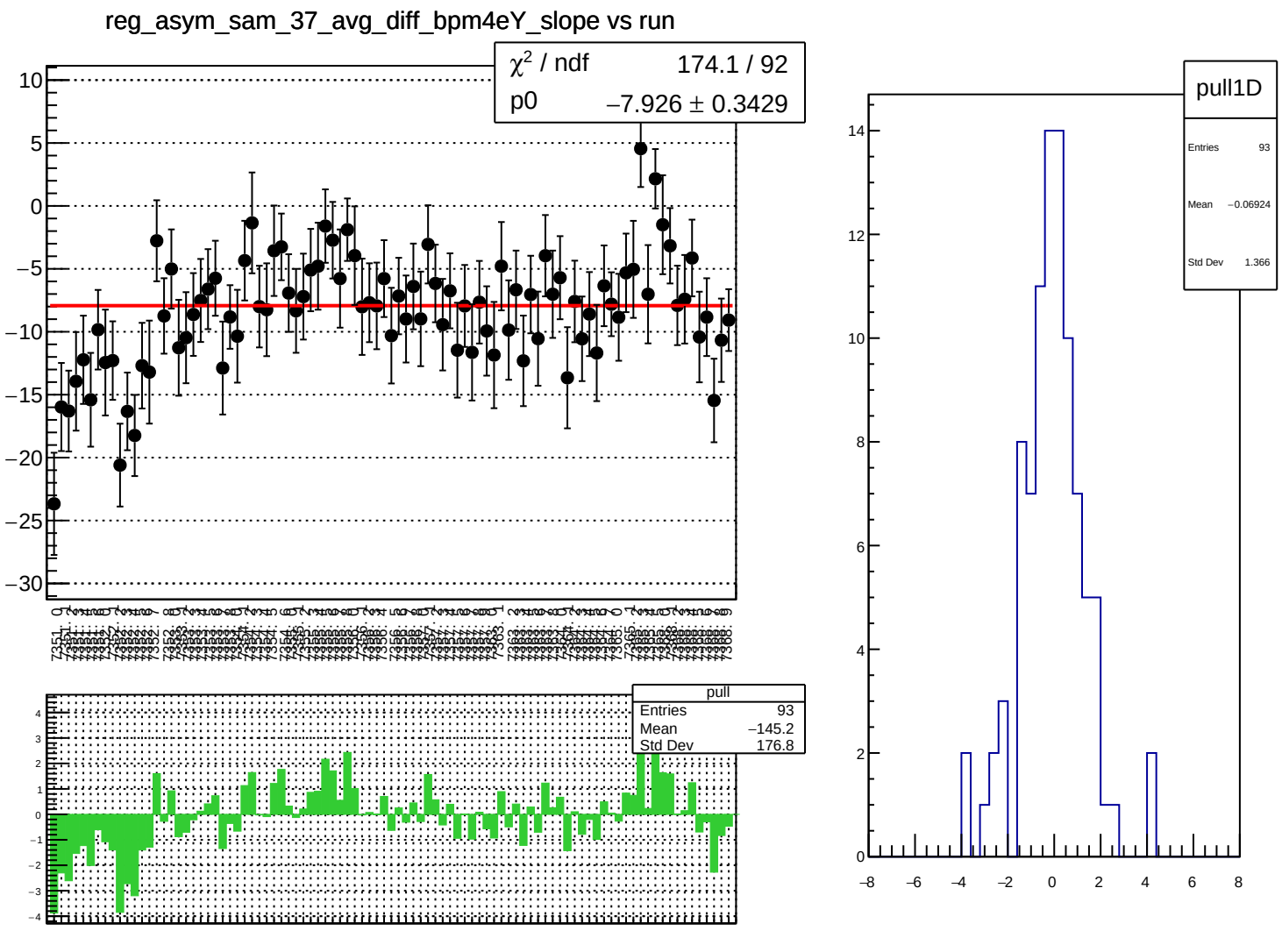

reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ² / ndf 502.1 / 92
p0 −27.28 ± 0.3302
pull
Entries 93
Mean 284.3
Std Dev 245.2
pull1D
Entries 93
Mean 0.1007
Std Dev 2.321

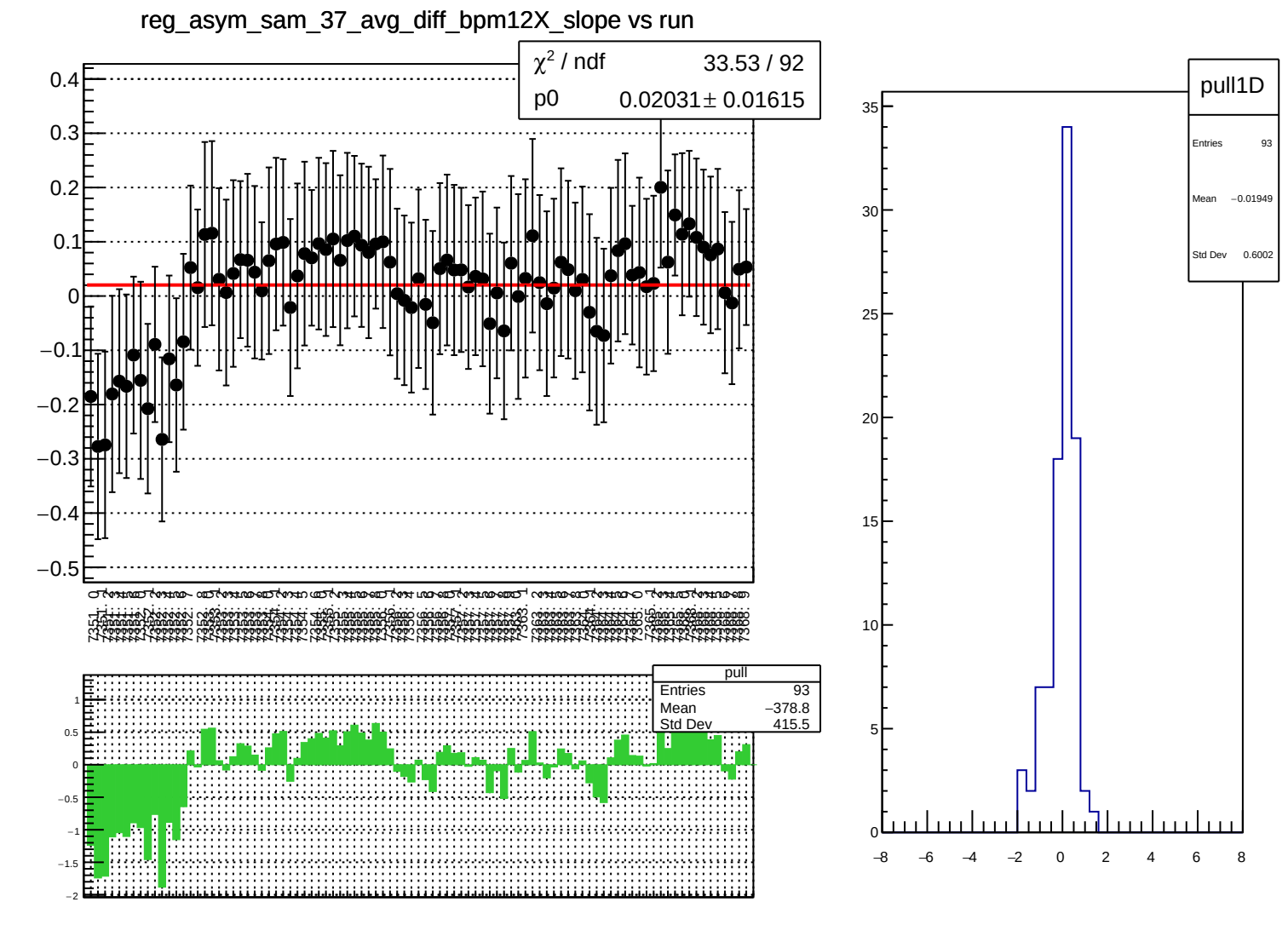

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 189.7 / 92
p0 16.04 ± 0.3221
pull
Entries 93
Mean −59.83
Std Dev 85.51

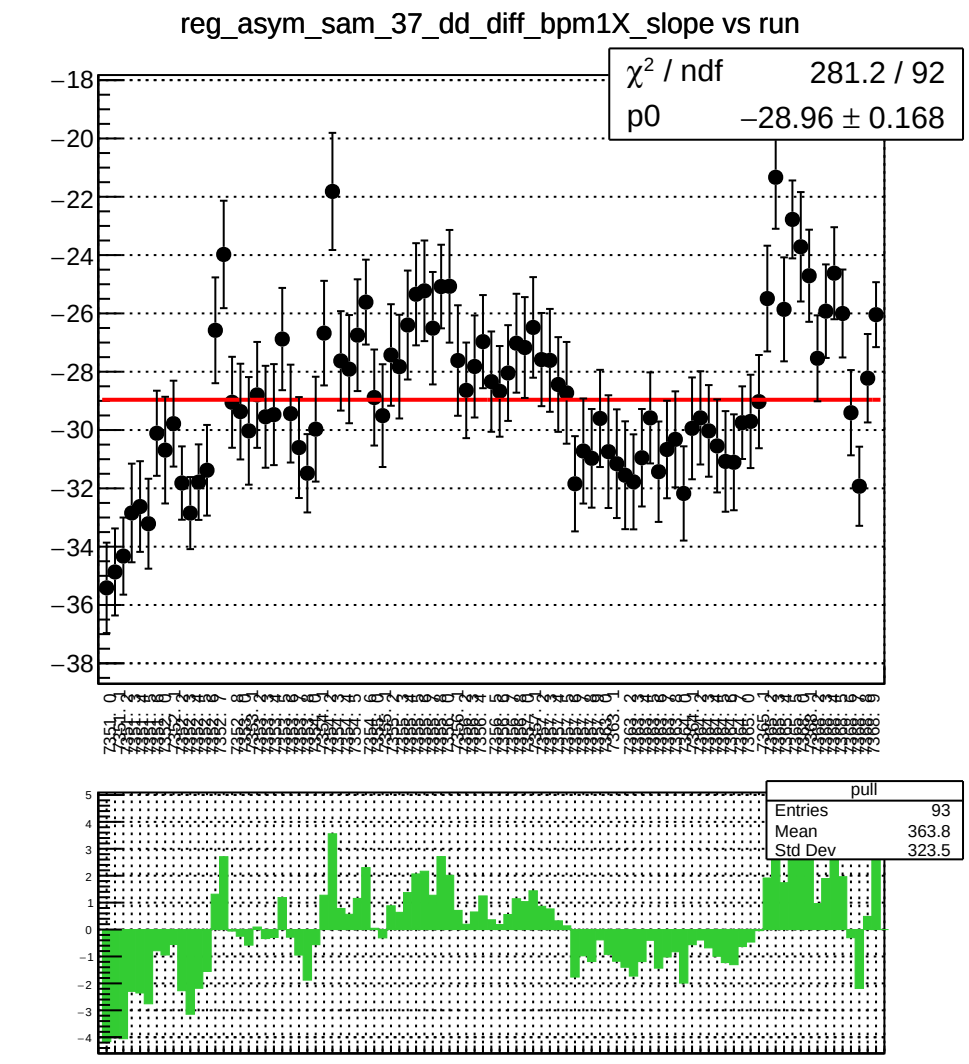

pull1D
Entries 93
Mean 0.1009
Std Dev 1.425

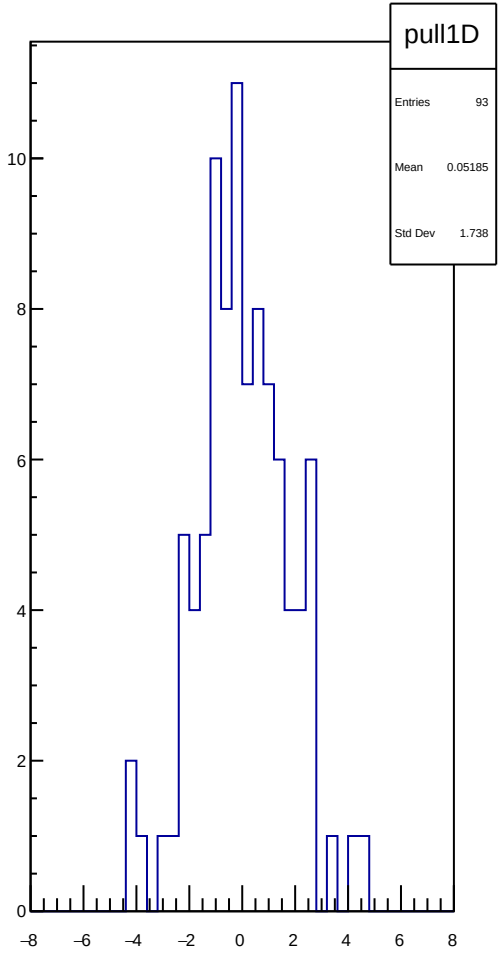

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 286.6 / 92
p0 −30.38 ± 0.3287
pull
Entries 93
Mean 181.4
Std Dev 143.8

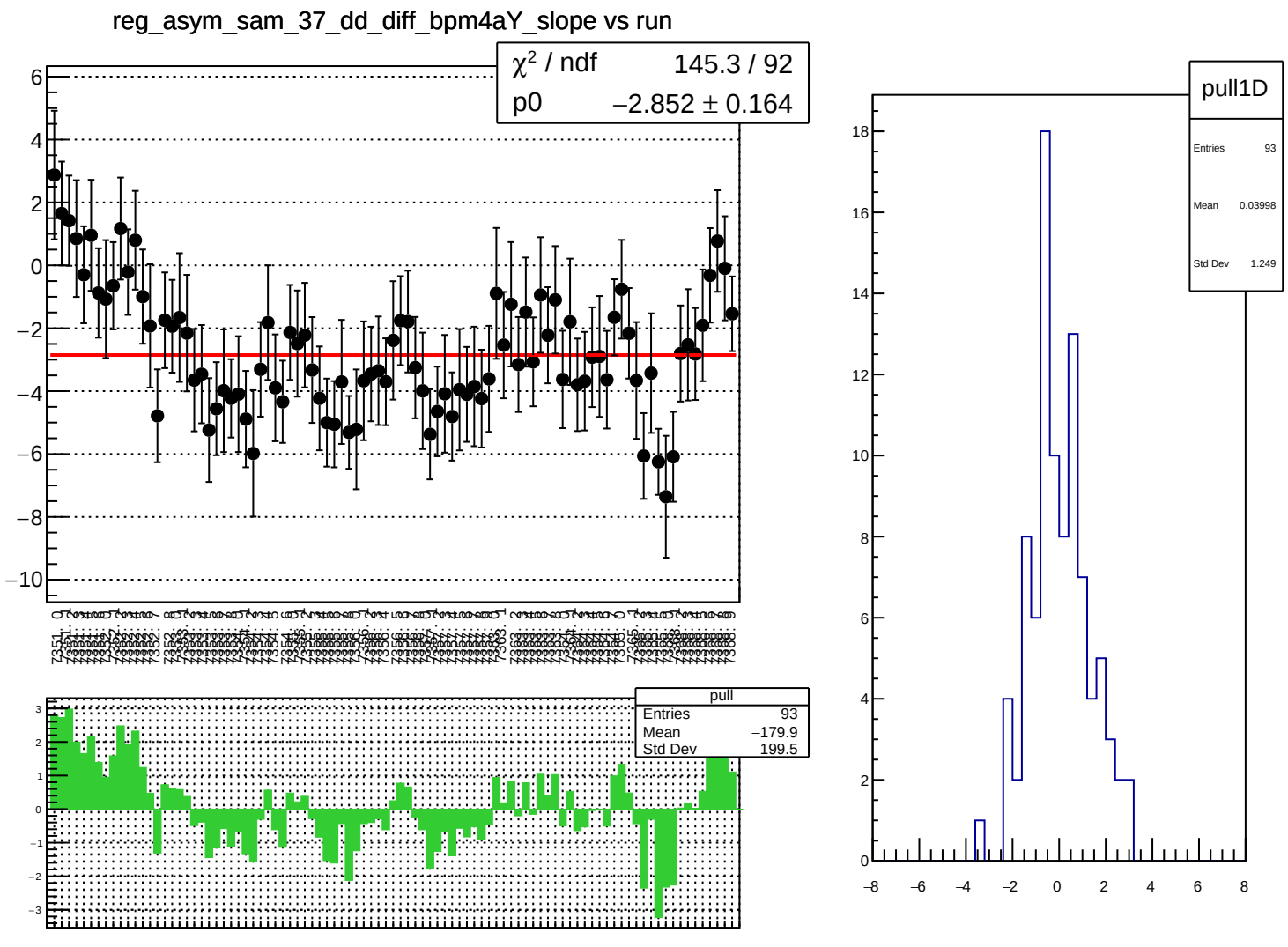

pull1D
Entries 93
Mean −0.1208
Std Dev 1.751

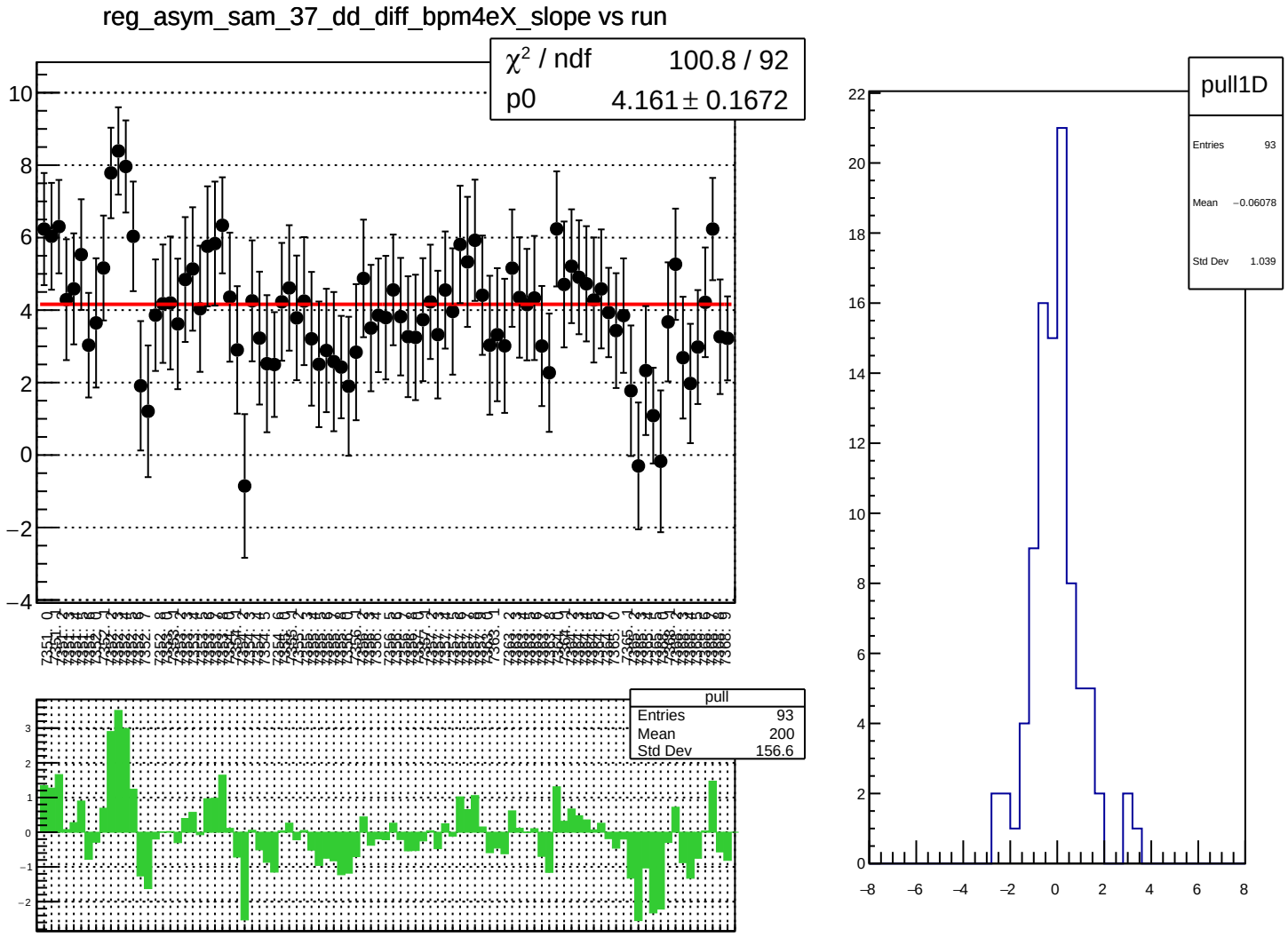

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 174.1 / 92
p0 −7.926 ± 0.3429
pull
Entries 93
Mean −145.2
Std Dev 176.8
pull1D
Entries 93
Mean −0.06924
Std Dev 1.366

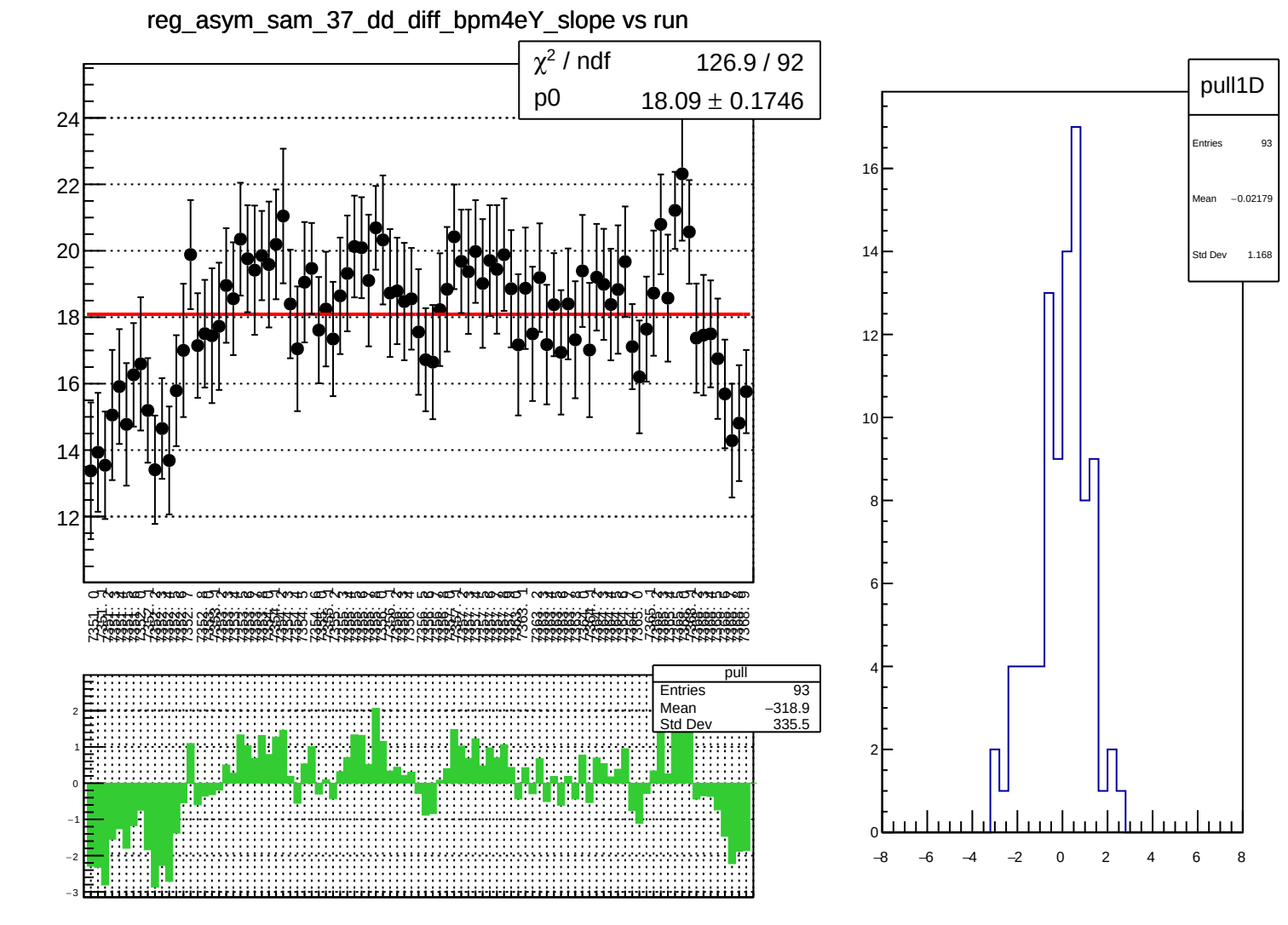

reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ² / ndf 33.53 / 92
p0 0.02031 ± 0.01615
pull
Entries 93
Mean −378.8
Std Dev 415.5
pull1D
Entries 93
Mean −0.01949
Std Dev 0.6002

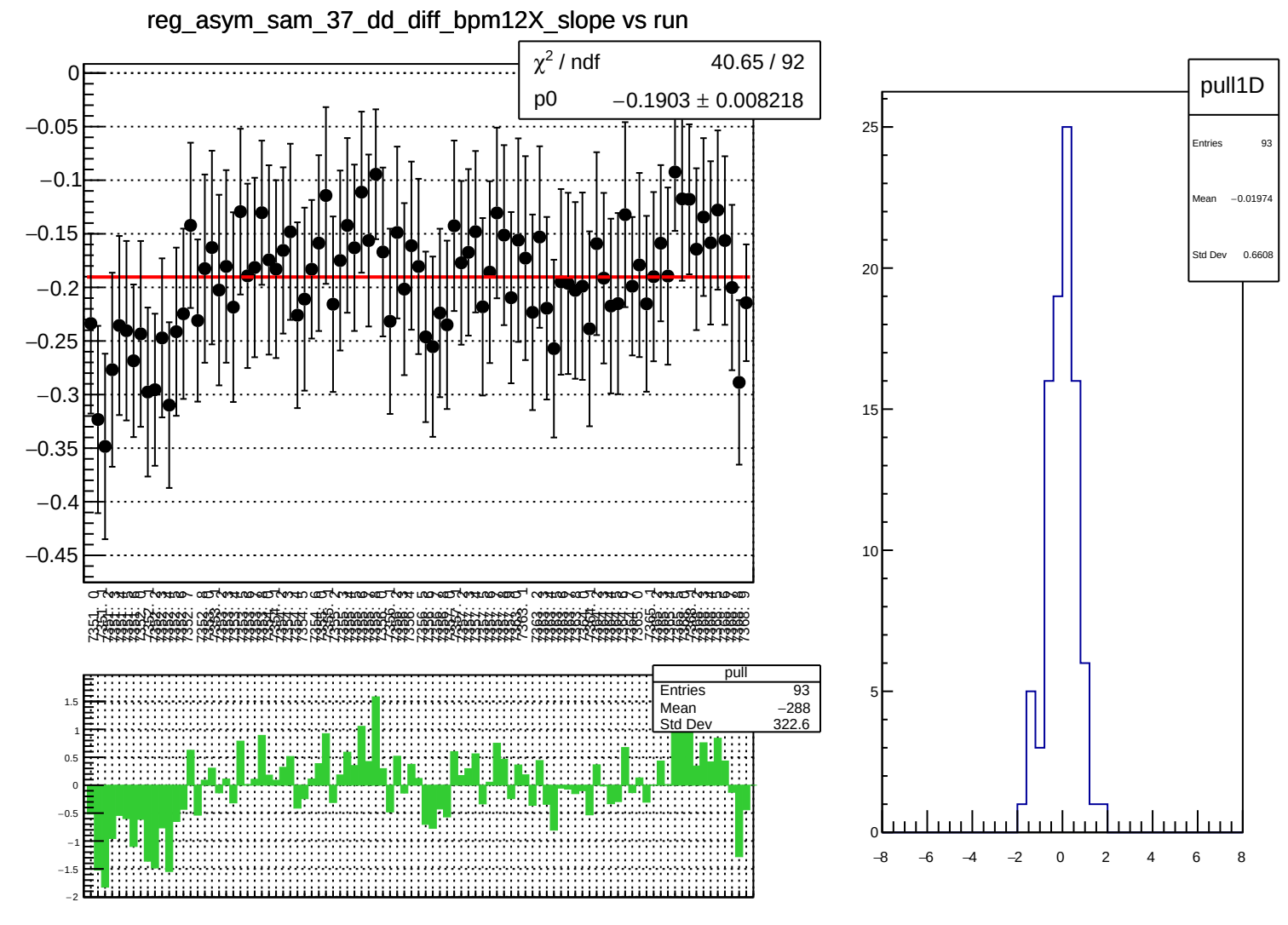

reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ² / ndf 281.2 / 92
p0 −28.96 ± 0.168
pull
Entries 93
Mean 363.8
Std Dev 323.5

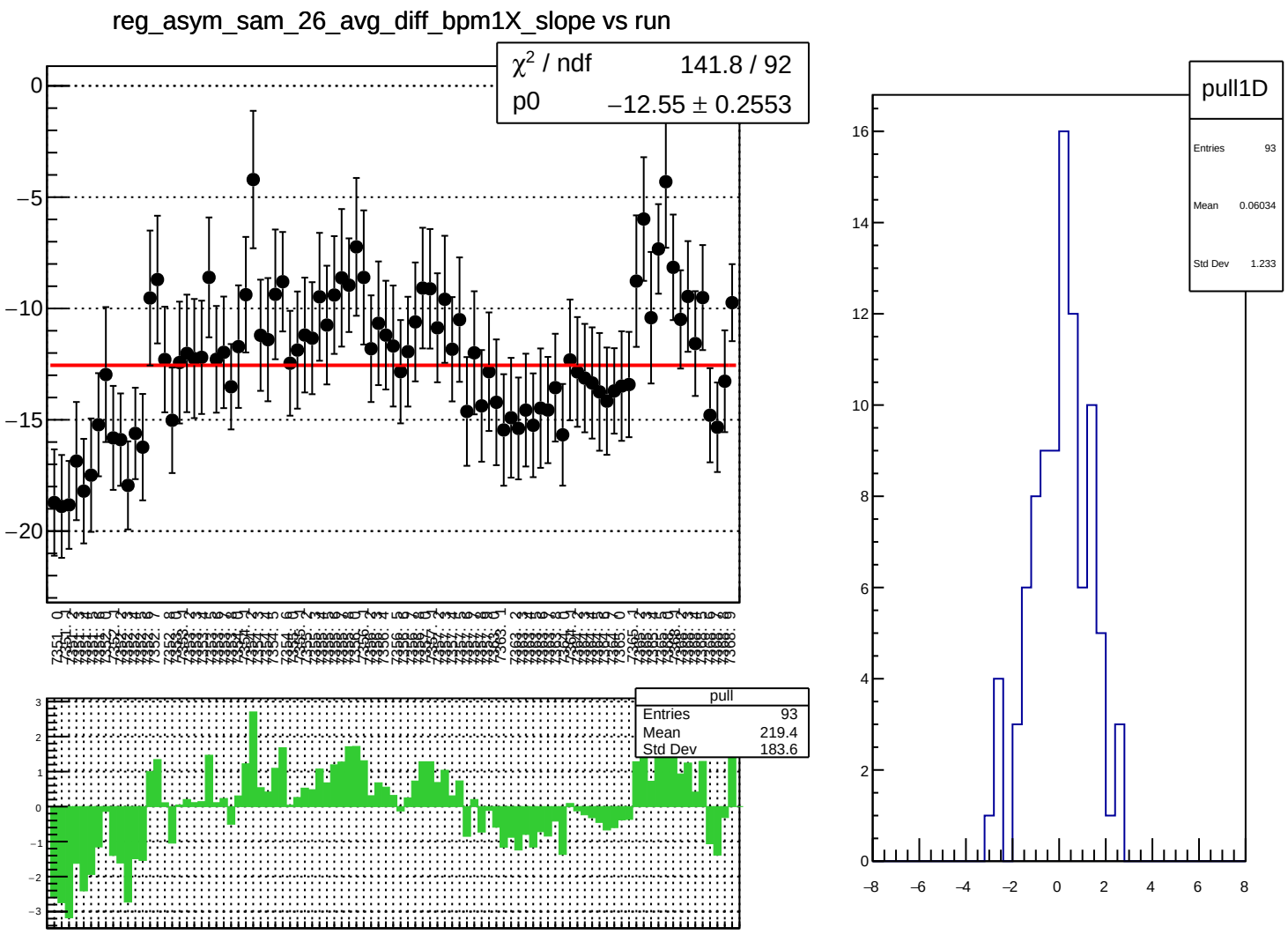

pull1D
Entries 93
Mean 0.05185
Std Dev 1.738

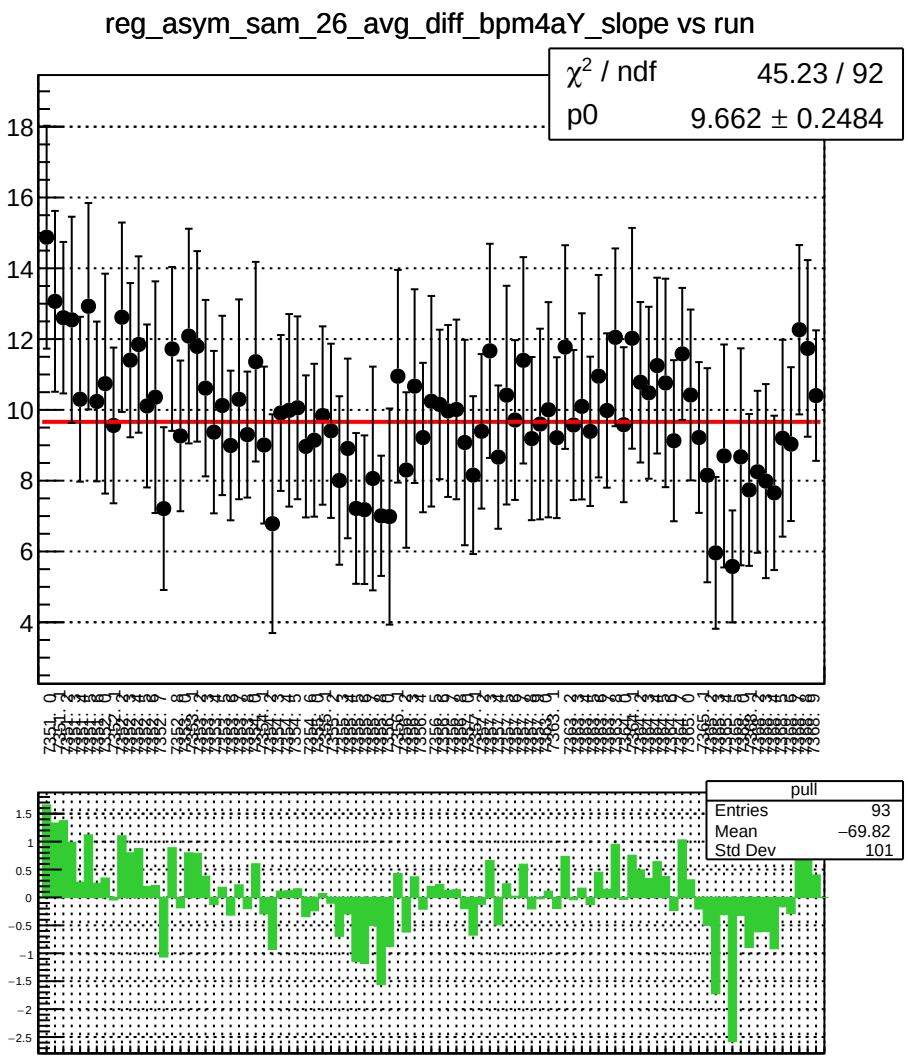

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 145.3 / 92
p0 −2.852 ± 0.164
pull
Entries 93
Mean −179.9
Std Dev 199.5
pull1D
Entries 93
Mean 0.03998
Std Dev 1.249

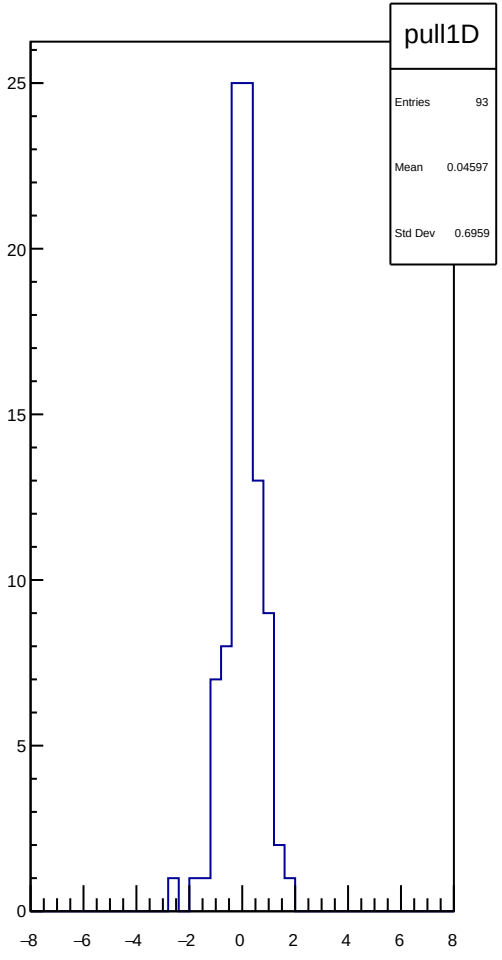

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.8 / 92
p0 4.161 ± 0.1672
pull
Entries 93
Mean 200
Std Dev 156.6
pull1D
Entries 93
Mean −0.06078
Std Dev 1.039

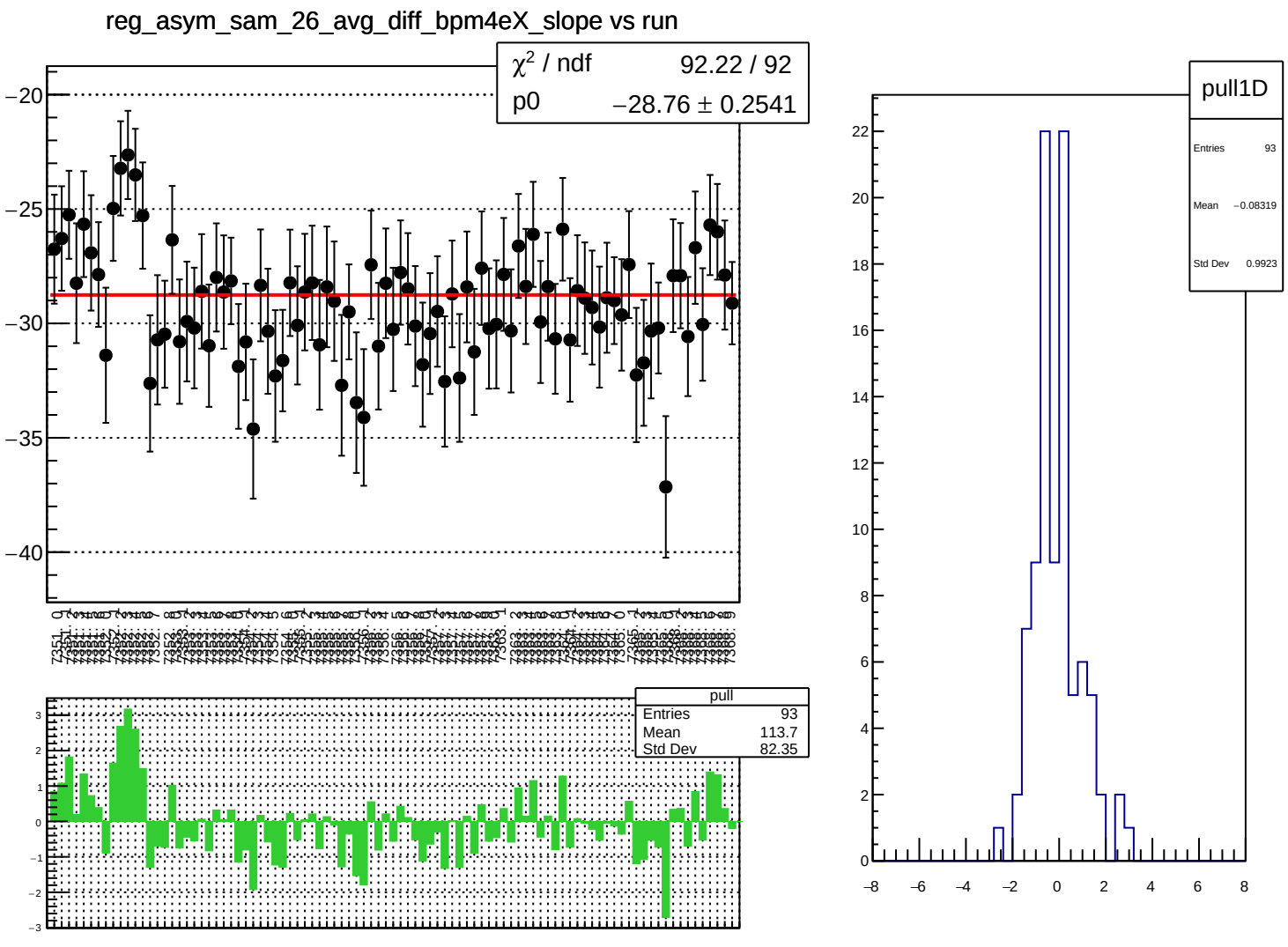

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 126.9 / 92
p0 18.09 ± 0.1746
pull
Entries 93
Mean −318.9
Std Dev 335.5
pull1D
Entries 93
Mean −0.02179
Std Dev 1.168

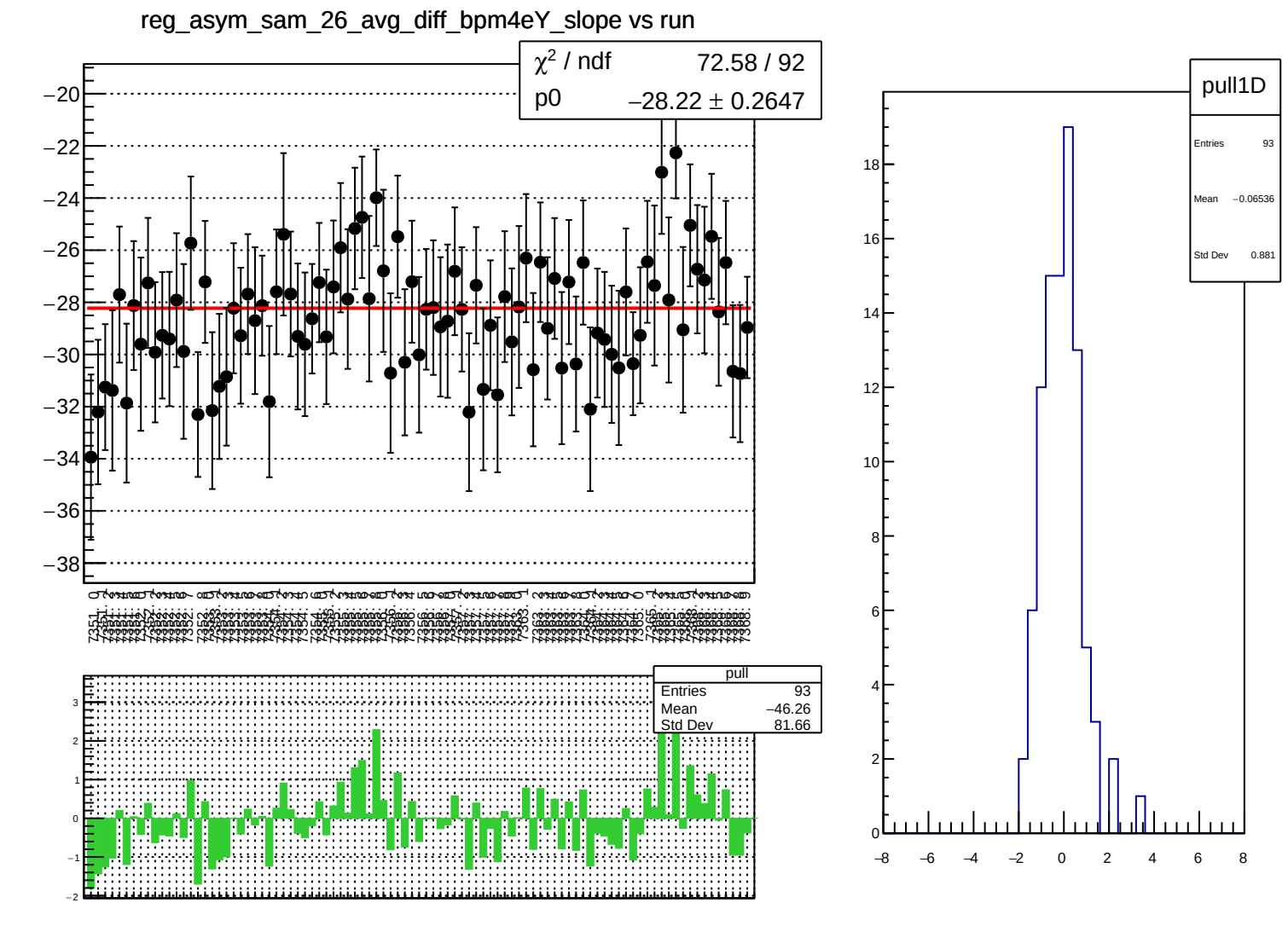

reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ² / ndf 40.65 / 92
p0 −0.1903 ± 0.008218
pull
Entries 93
Mean −288
Std Dev 322.6
pull1D
Entries 93
Mean −0.01974
Std Dev 0.6608

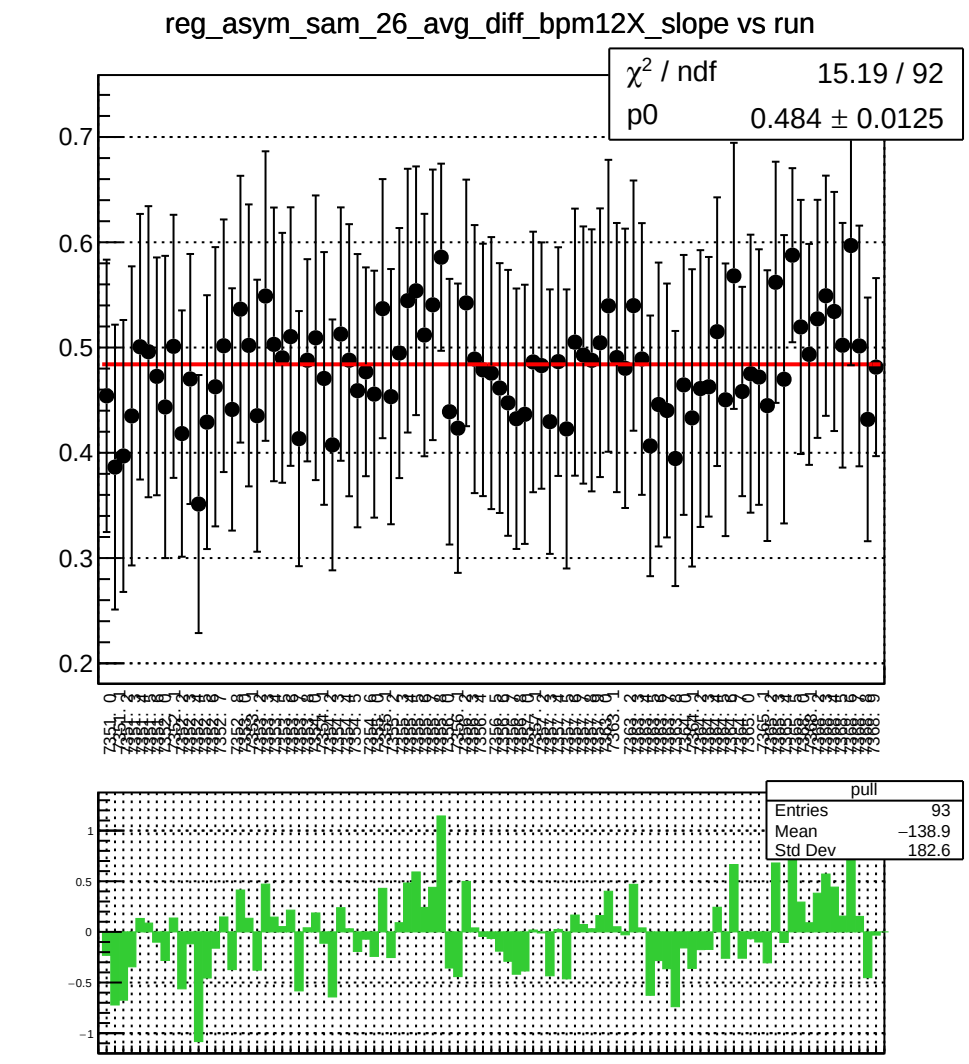

reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ² / ndf 141.8 / 92
p0 −12.55 ± 0.2553
pull
Entries 93
Mean 219.4
Std Dev 183.6
pull1D
Entries 93
Mean 0.06034
Std Dev 1.233

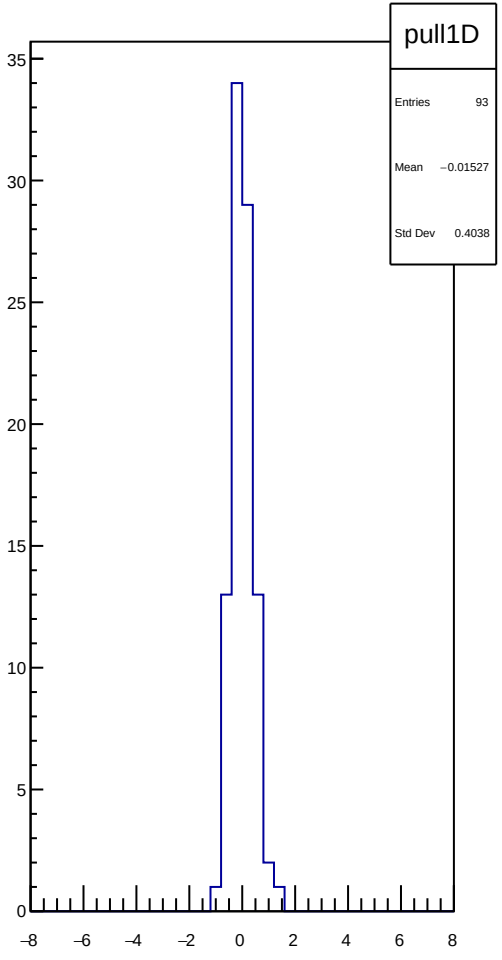

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 45.23 / 92
p0 9.662 ± 0.2484
pull
Entries 93
Mean −69.82
Std Dev 101

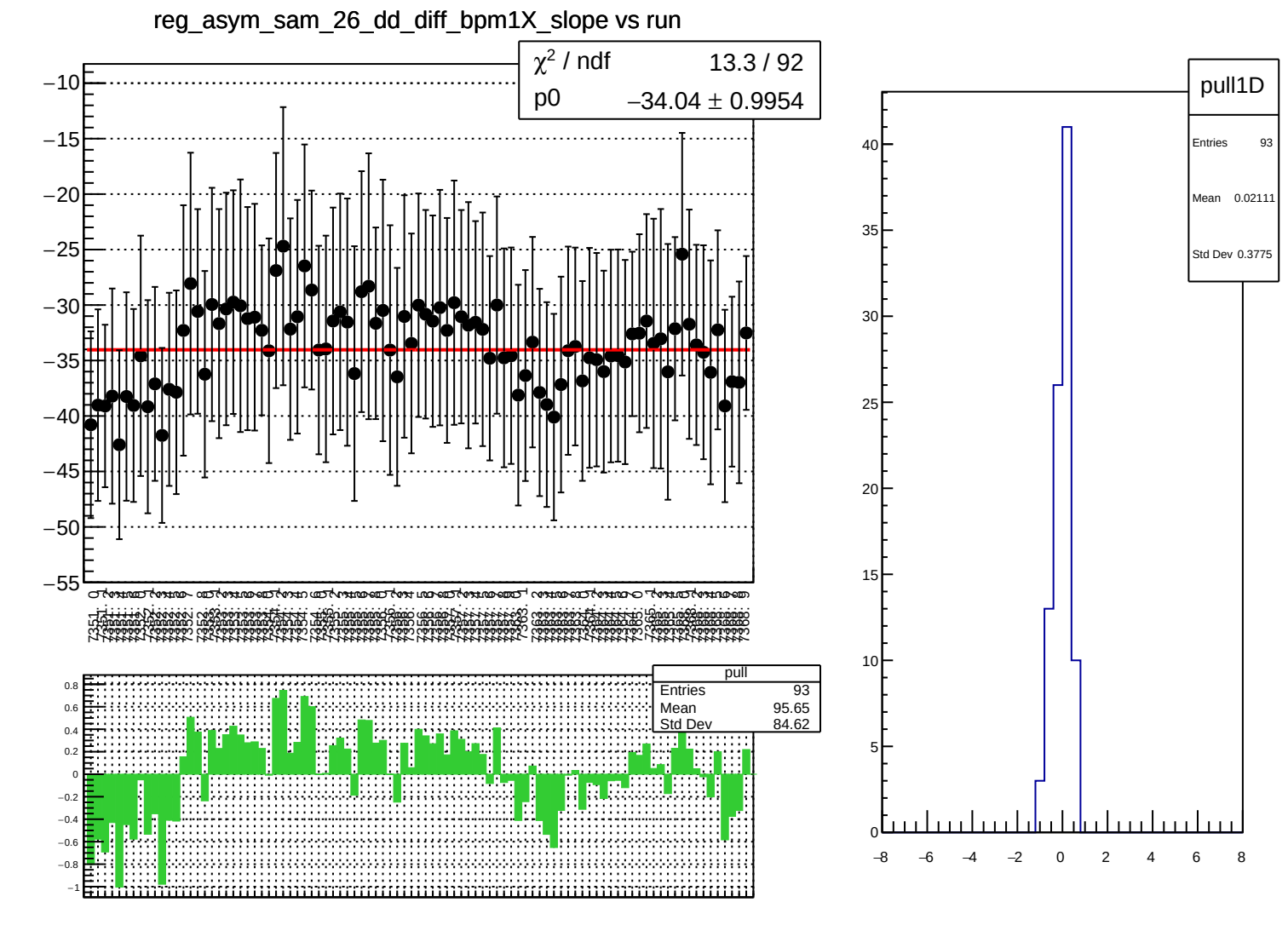

pull1D
Entries 93
Mean 0.04597
Std Dev 0.6959

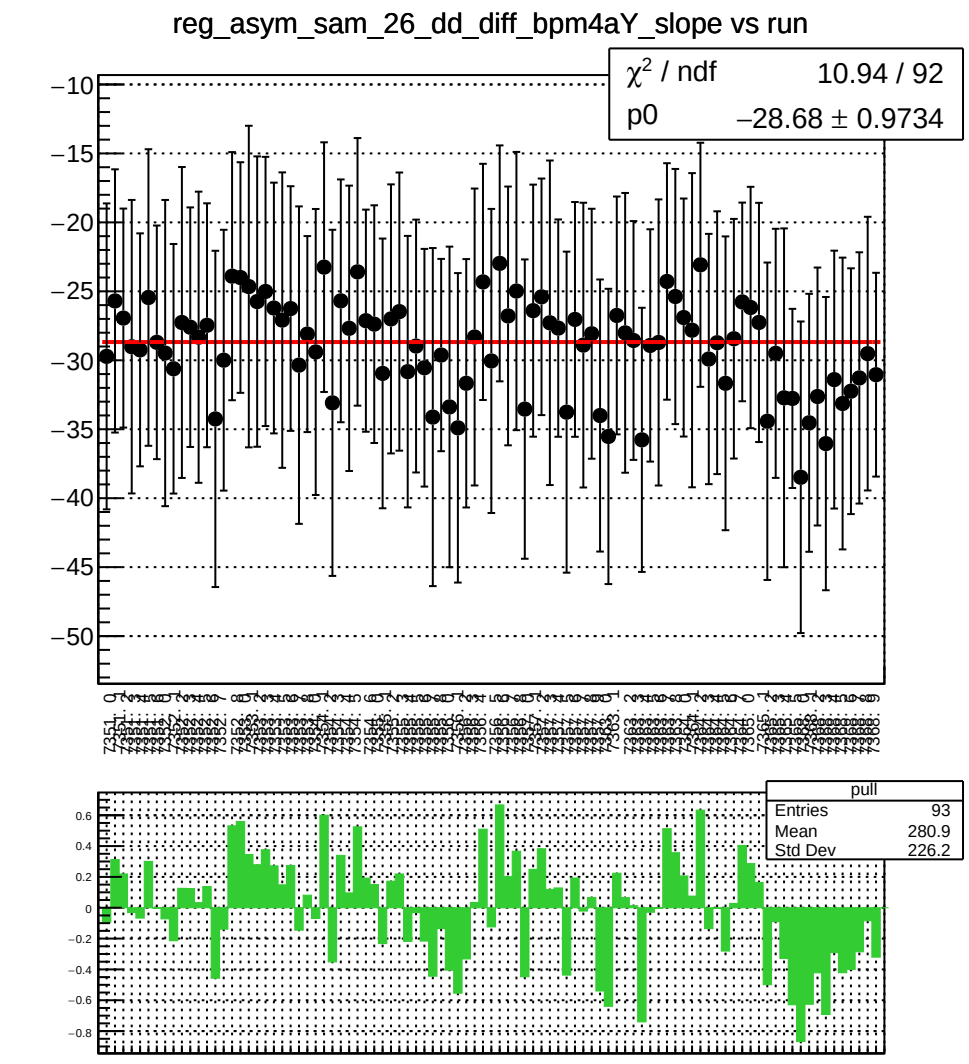

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 92.22 / 92
p0 −28.76 ± 0.2541
−20
−25
−30
−35
−40
pull
Entries 93
Mean 113.7
Std Dev 82.35
pull1D
Entries 93
Mean −0.08319
Std Dev 0.9923

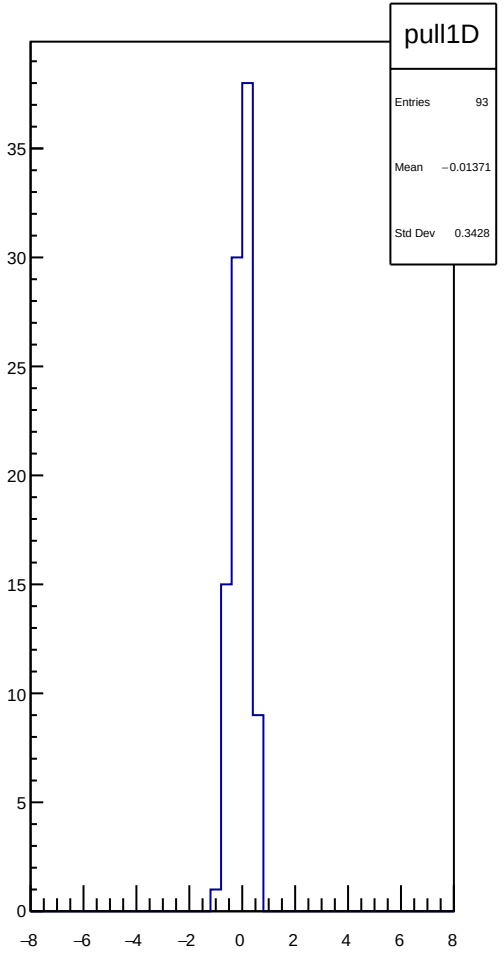

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 72.58 / 92
p0 −28.22 ± 0.2647
pull
Entries 93
Mean −46.26
Std Dev 81.66
pull1D
Entries 93
Mean −0.06536
Std Dev 0.881

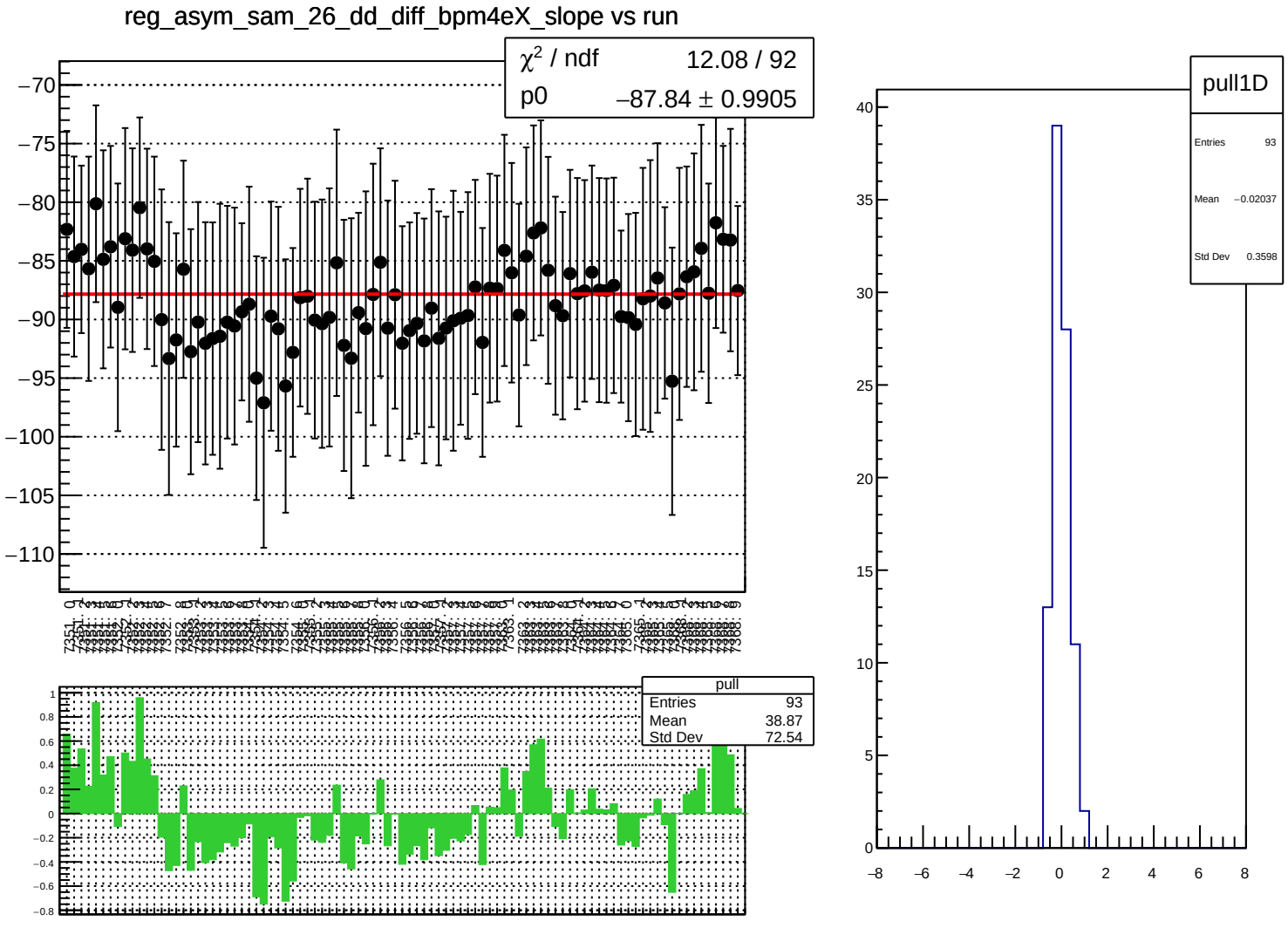

reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ² / ndf 15.19 / 92
p0 0.484 ± 0.0125
pull
Entries 93
Mean −138.9
Std Dev 182.6

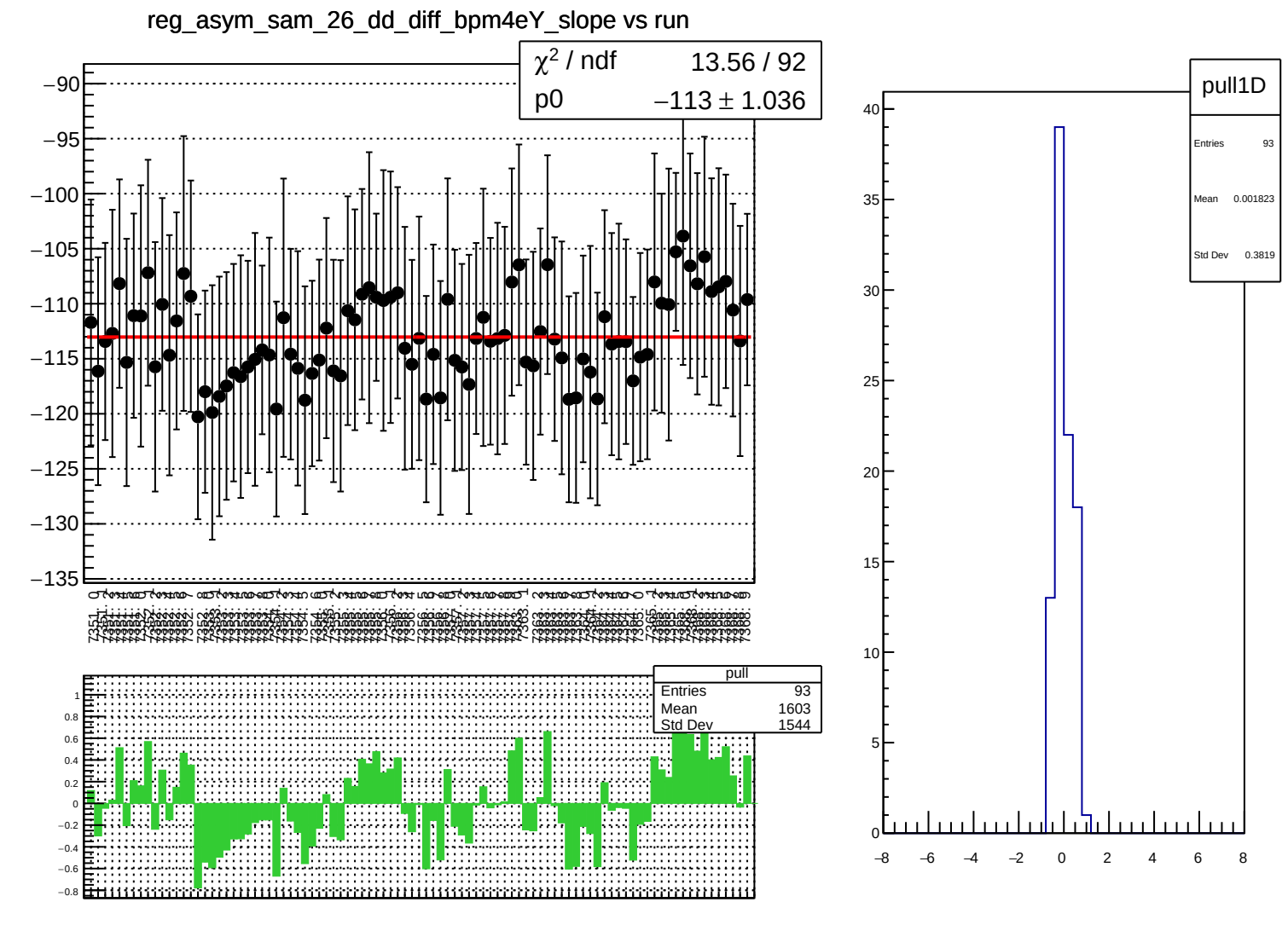

pull1D
Entries 93
Mean −0.01527
Std Dev 0.4038

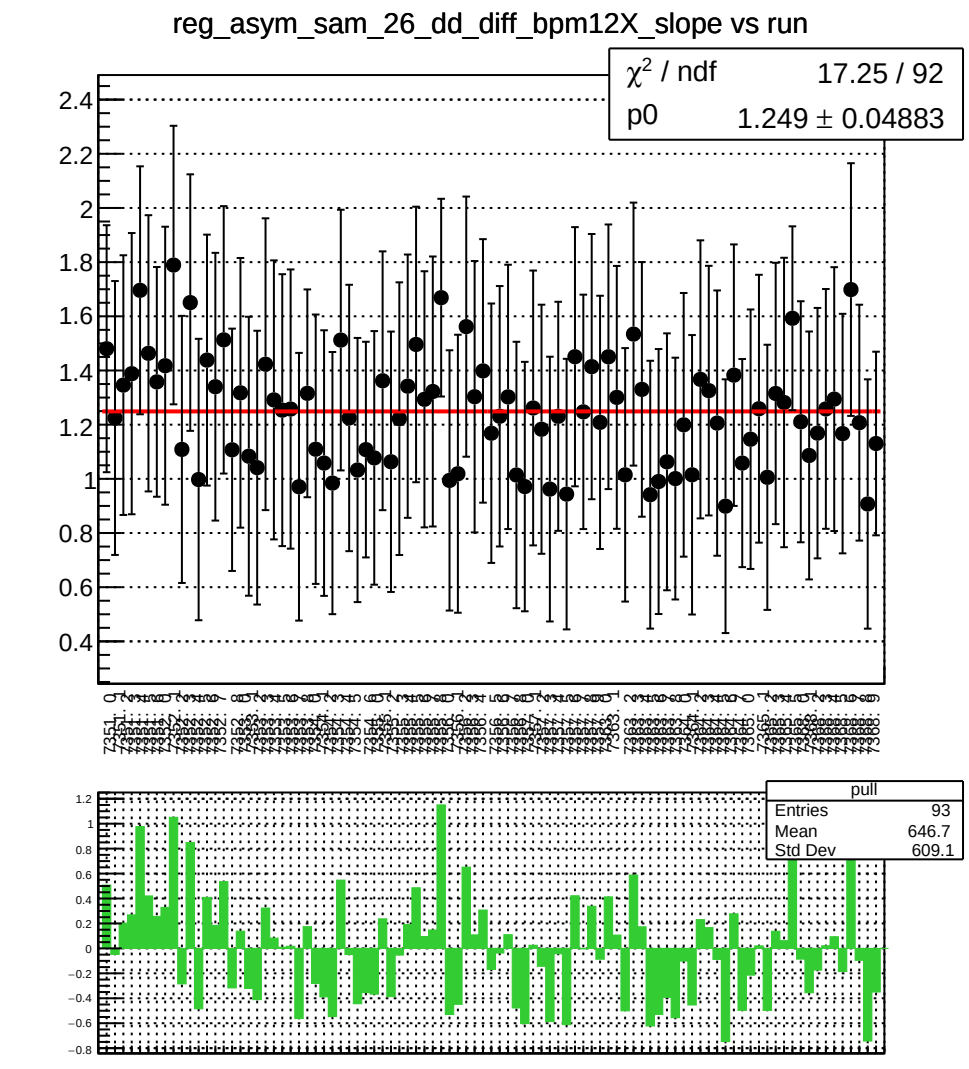

reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ² / ndf 13.3 / 92
p0 −34.04 ± 0.9954
pull
Entries 93
Mean 95.65
Std Dev 84.62
pull1D
Entries 93
Mean 0.02111
Std Dev 0.3775

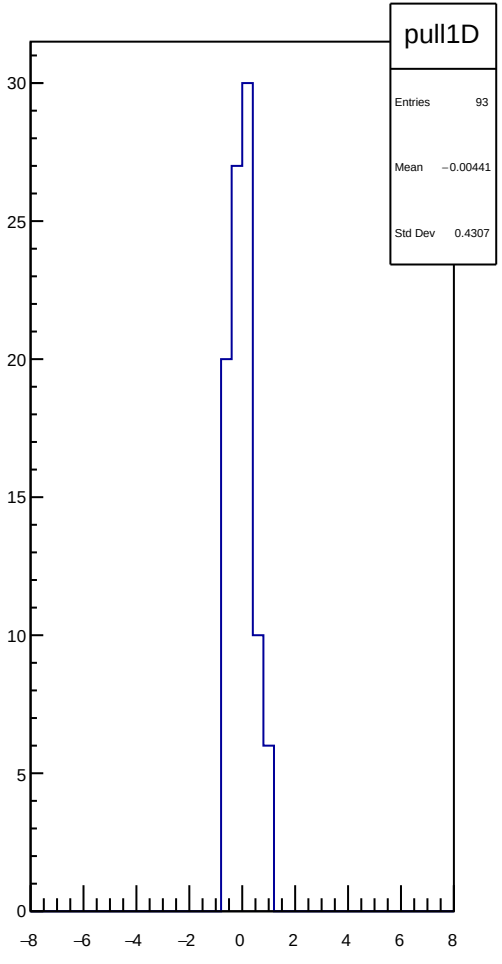

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 10.94 / 92
p0 −28.68 ± 0.9734
pull
Entries 93
Mean 280.9
Std Dev 226.2

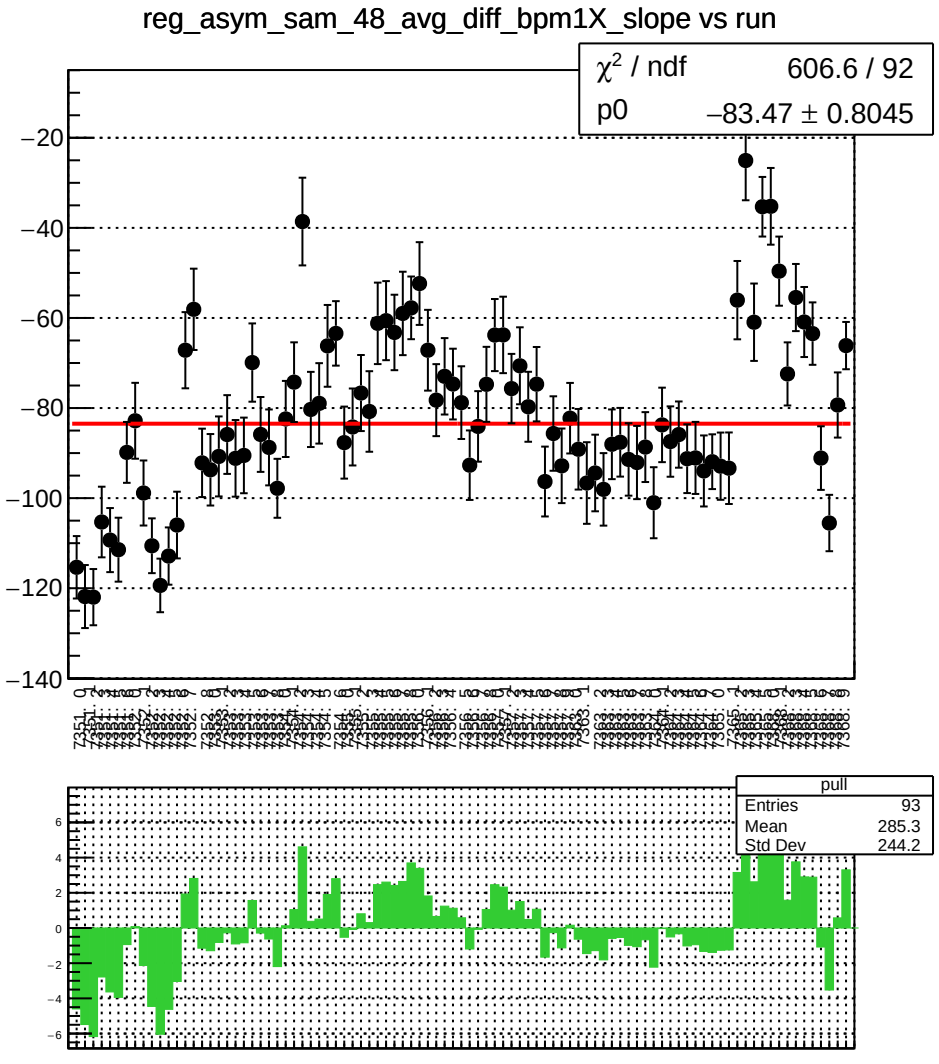

pull1D
Entries 93
Mean −0.01371
Std Dev 0.3428

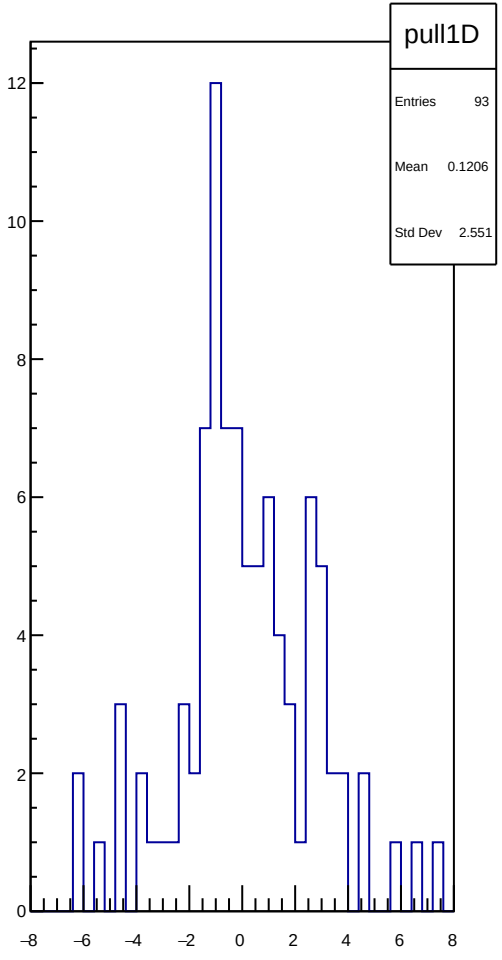

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 12.08 / 92
p0 −87.84 ± 0.9905
pull
Entries 93
Mean 38.87
Std Dev 72.54
pull1D
Entries 93
Mean −0.02037
Std Dev 0.3598

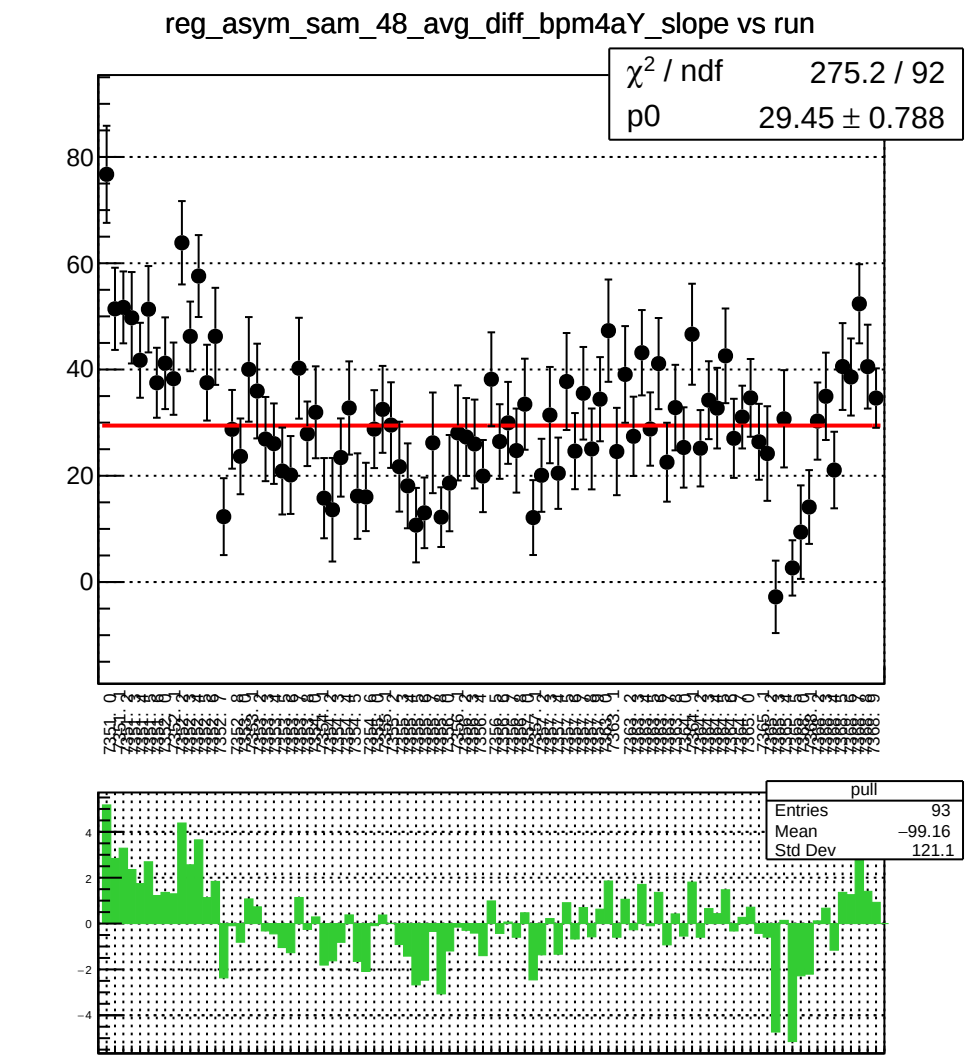

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 13.56 / 92
p0 −113 ± 1.036
pull
Entries 93
Mean 1603
Std Dev 1544
pull1D
Entries 93
Mean 0.001823
Std Dev 0.3819

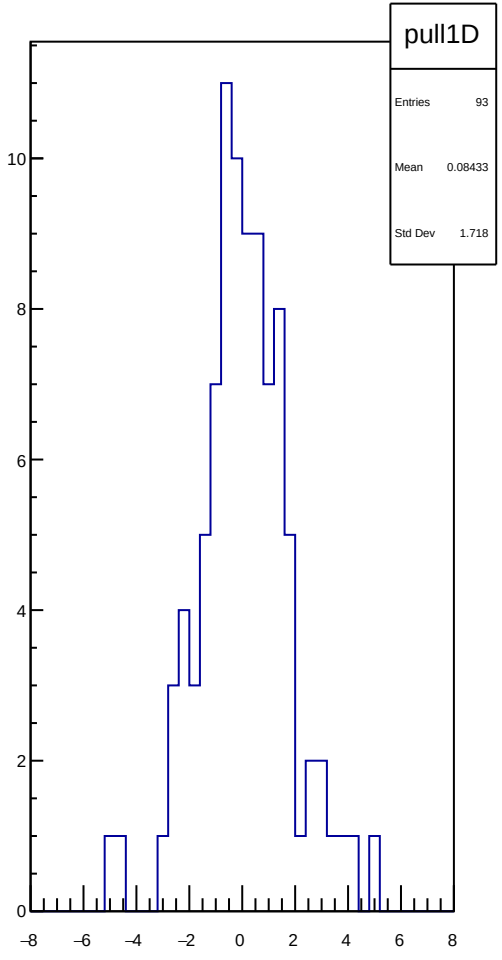

reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ² / ndf 17.25 / 92
p0 1.249 ± 0.04883
pull
Entries 93
Mean 646.7
Std Dev 609.1

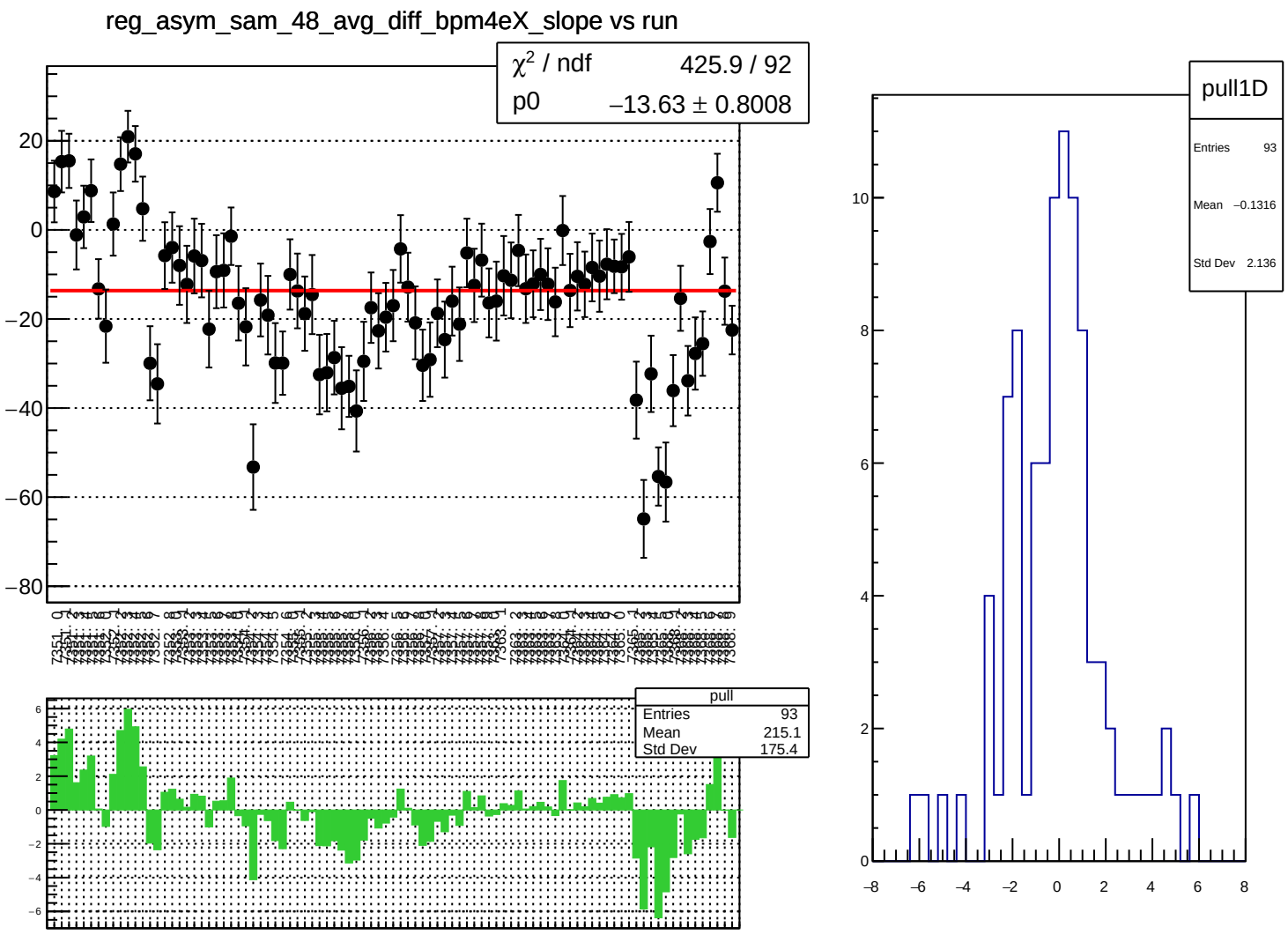

pull1D
Entries 93
Mean −0.00441
Std Dev 0.4307

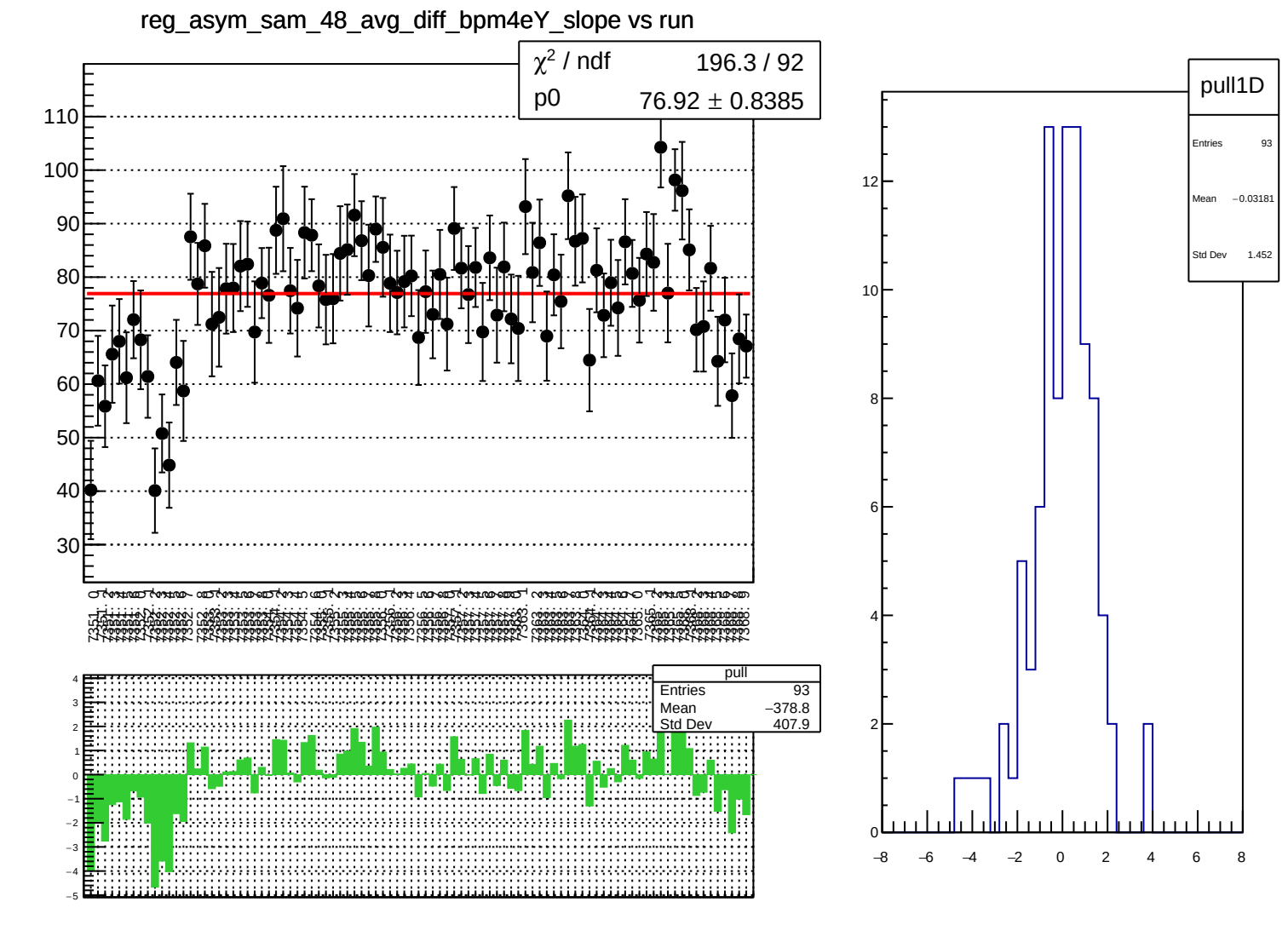

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ² / ndf 606.6 / 92
p0 −83.47 ± 0.8045
pull
Entries 93
Mean 285.3
Std Dev 244.2

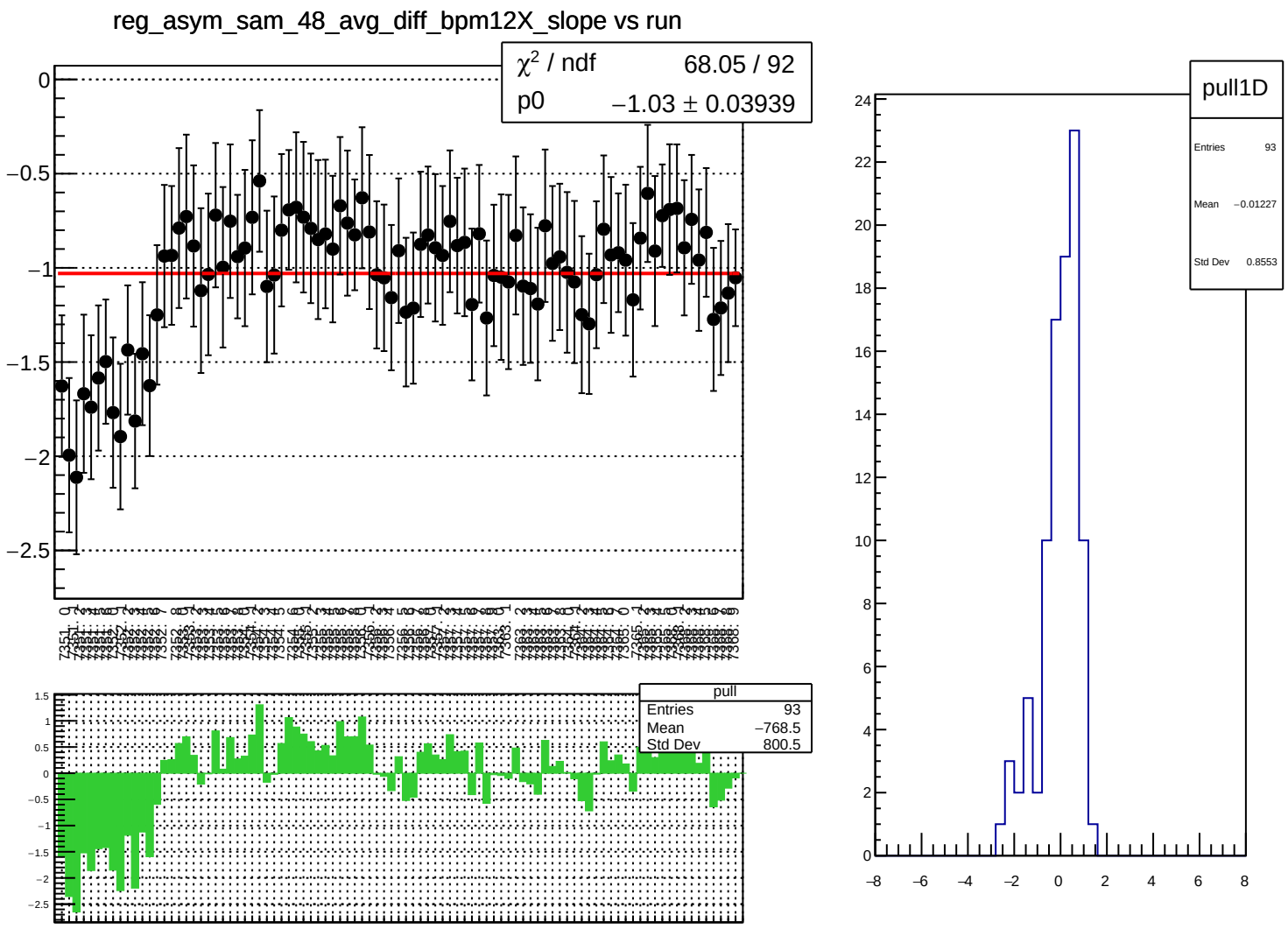

pull1D
Entries 93
Mean 0.1206
Std Dev 2.551

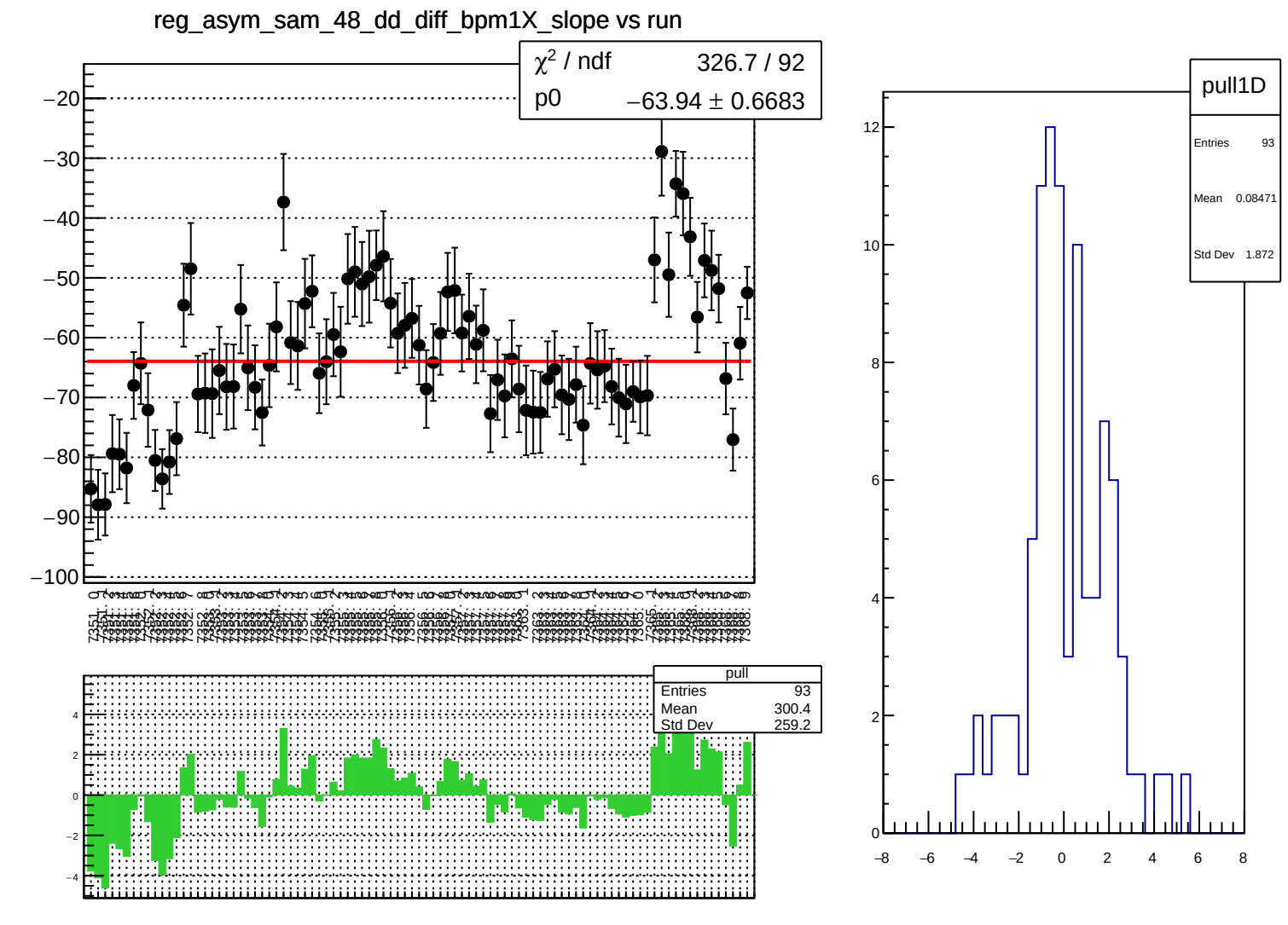

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 275.2 / 92
p0 29.45 ± 0.788
pull
Entries 93
Mean −99.16
Std Dev 121.1

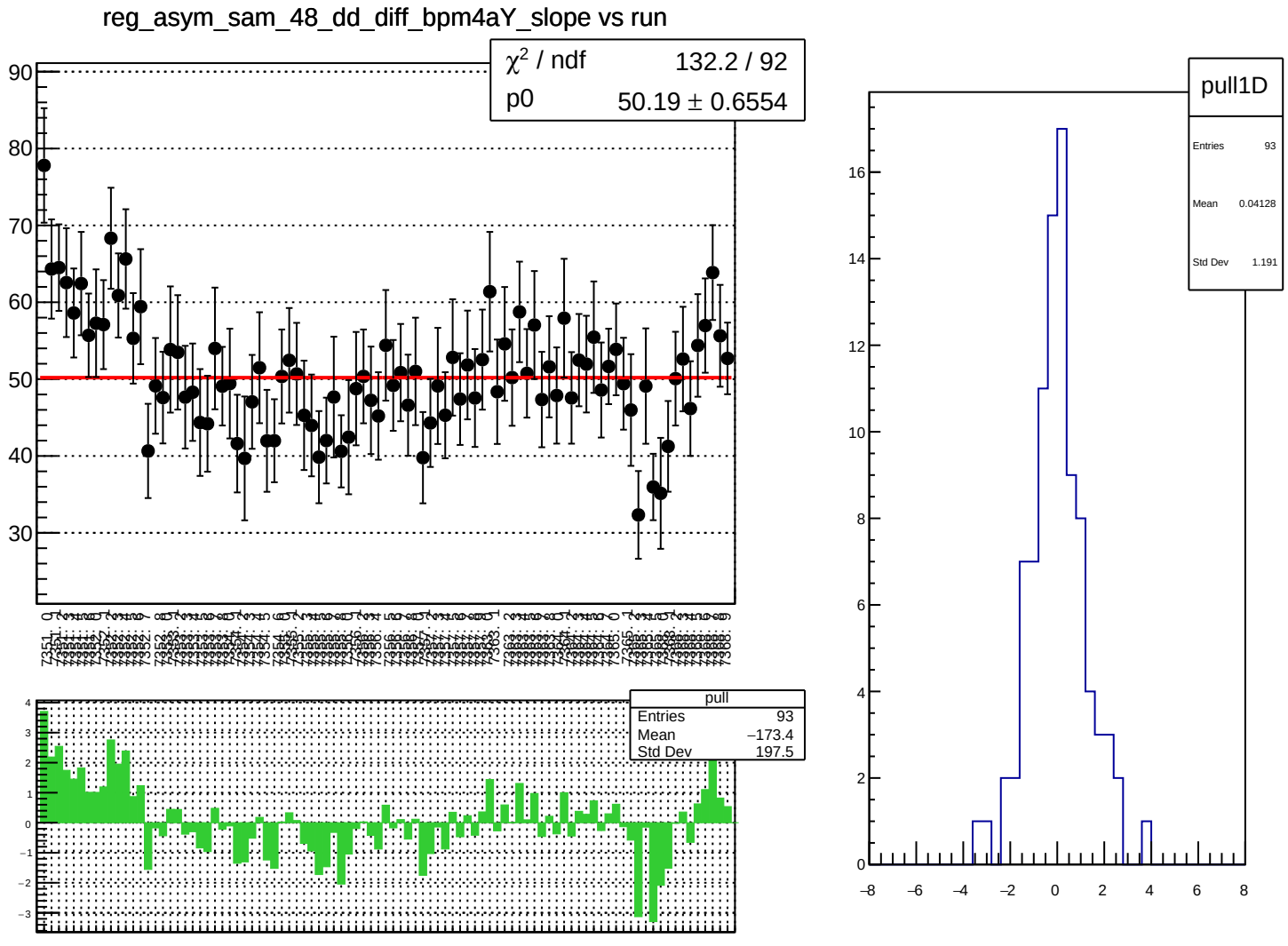

pull1D
Entries 93
Mean 0.08433
Std Dev 1.718

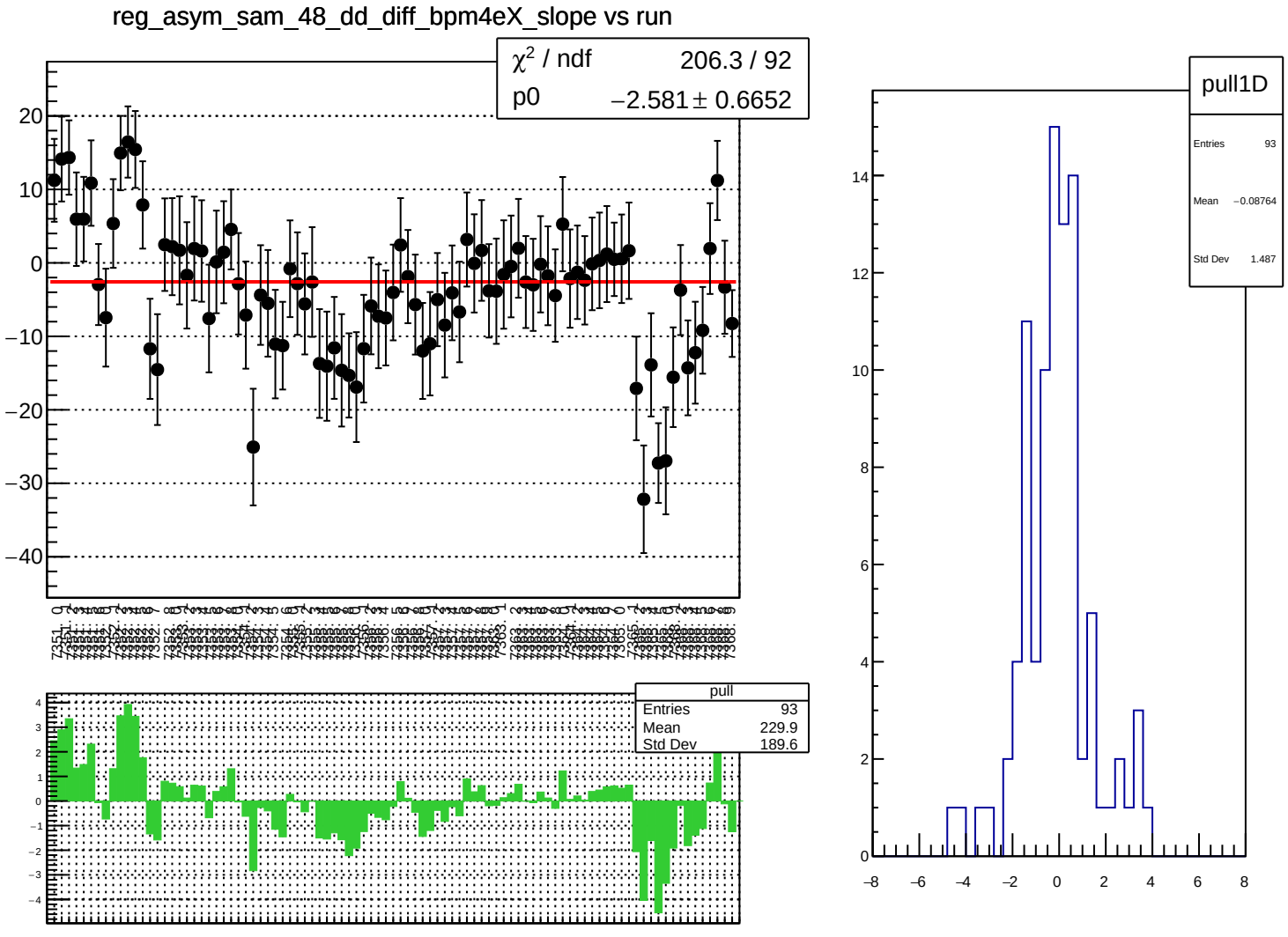

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 425.9 / 92
p0 −13.63 ± 0.8008
20
0
−20
−40
−60
−80
pull
Entries 93
Mean 215.1
Std Dev 175.4
6
4
2
0
−2
−4
−6
pull1D
Entries 93
Mean −0.1316
Std Dev 2.136
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

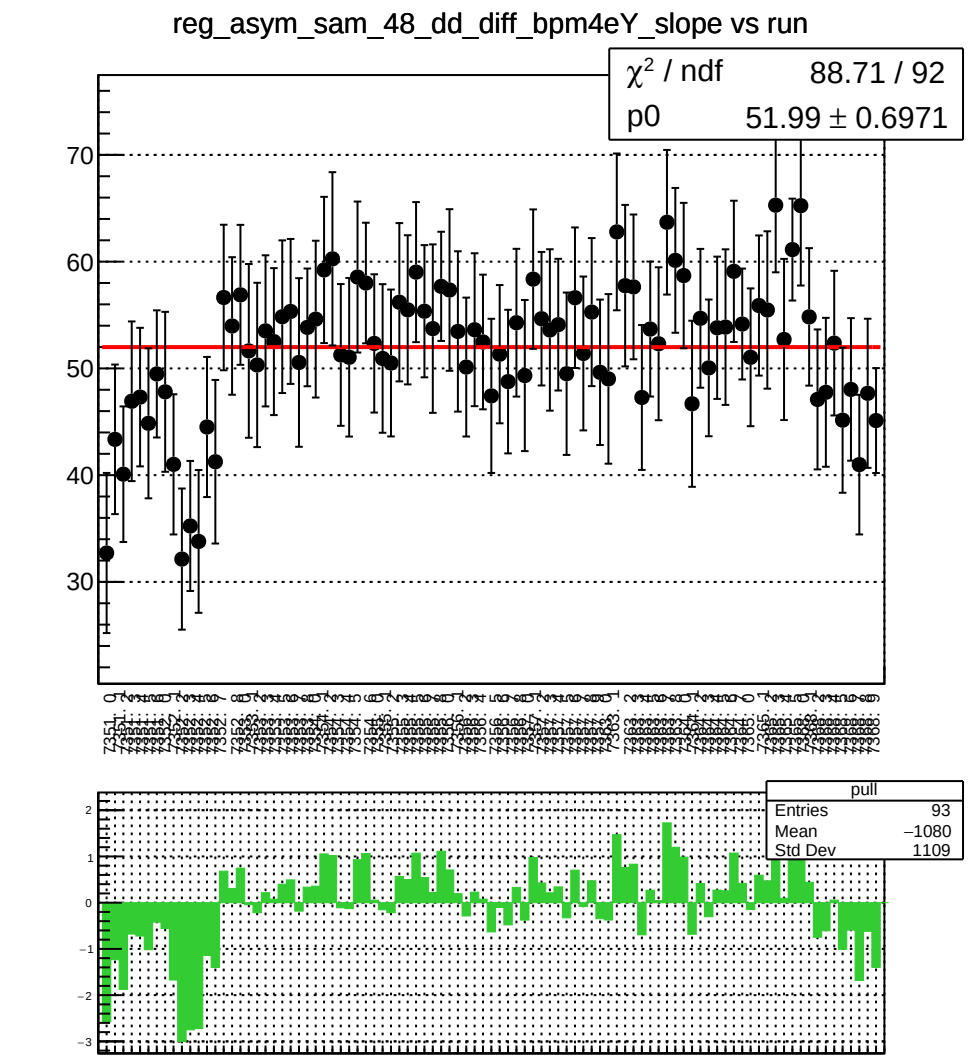

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 196.3 / 92
p0 76.92 ± 0.8385
pull
Entries 93
Mean −378.8
Std Dev 407.9
pull1D
Entries 93
Mean −0.03181
Std Dev 1.452

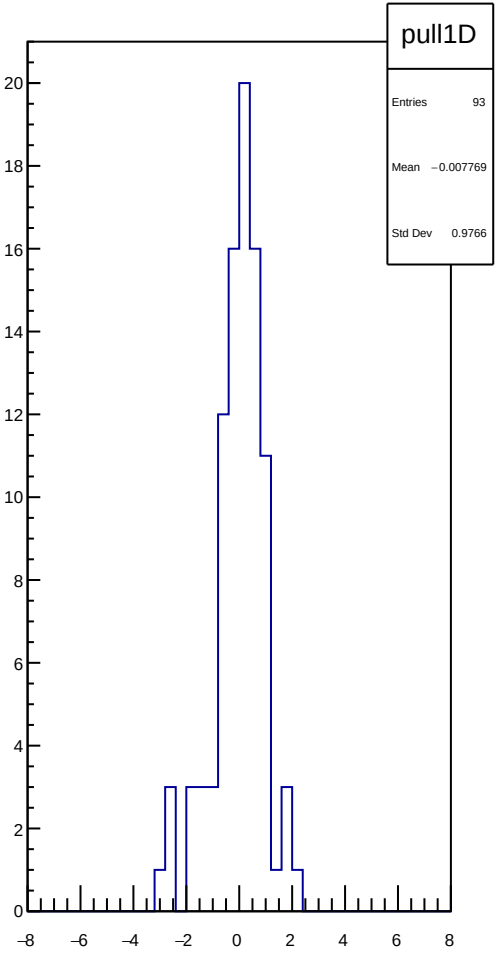

reg_asym_sam_48_avg_diff_bpm12X_slope vs run
χ² / ndf 68.05 / 92
p0 −1.03 ± 0.03939
pull
Entries 93
Mean −768.5
Std Dev 800.5
pull1D
Entries 93
Mean −0.01227
Std Dev 0.8553

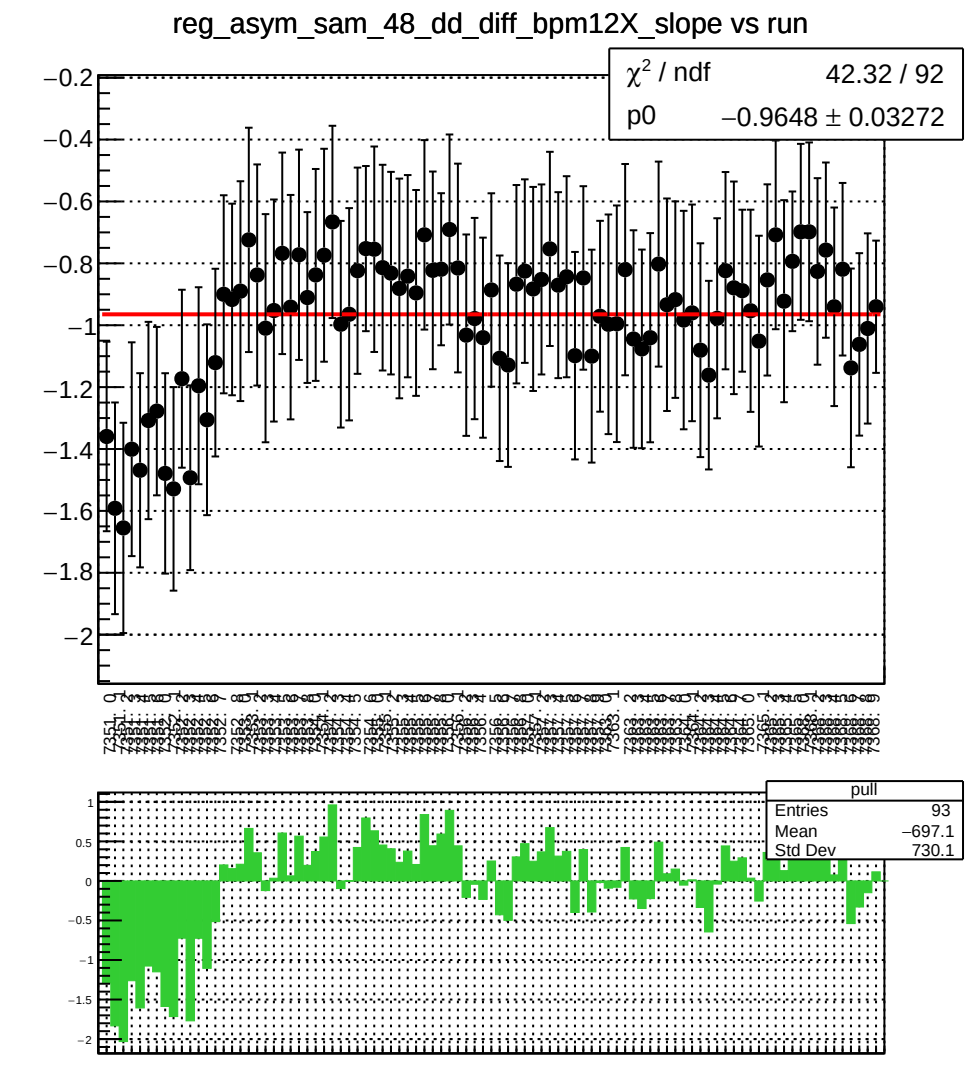

reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ² / ndf 326.7 / 92
p0 −63.94 ± 0.6683
pull
Entries 93
Mean 300.4
Std Dev 259.2
pull1D
Entries 93
Mean 0.08471
Std Dev 1.872

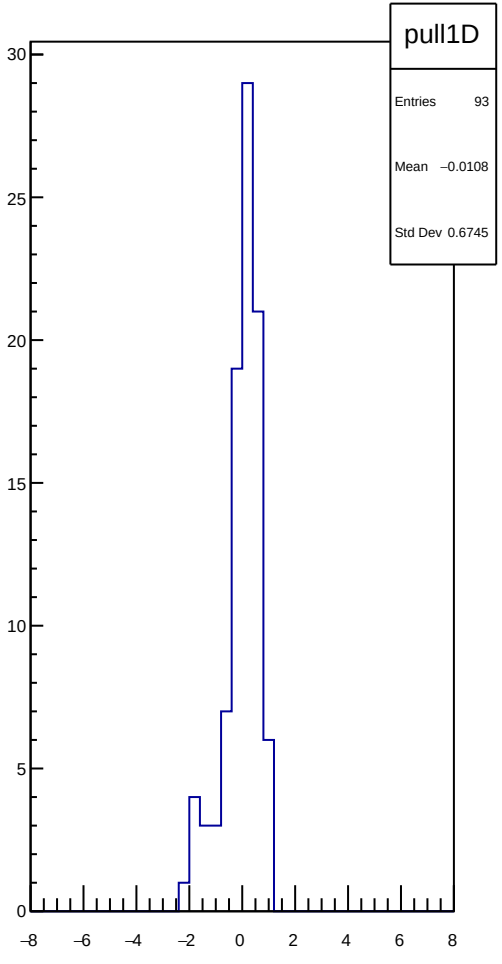

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 132.2 / 92
p0 50.19 ± 0.6554
pull
Entries 93
Mean −173.4
Std Dev 197.5
pull1D
Entries 93
Mean 0.04128
Std Dev 1.191

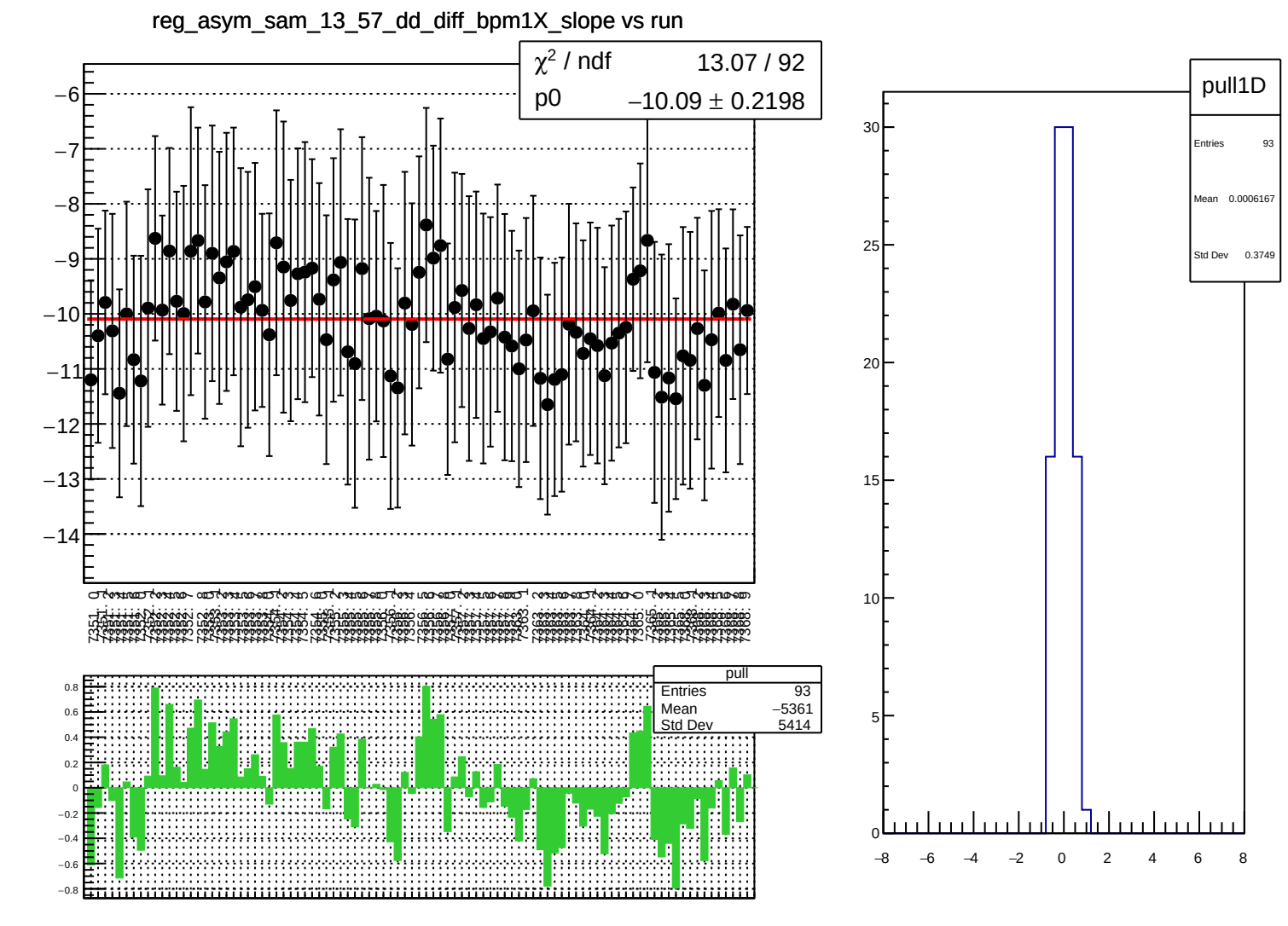

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 206.3 / 92
p0 −2.581 ± 0.6652
pull
Entries 93
Mean 229.9
Std Dev 189.6
pull1D
Entries 93
Mean −0.08764
Std Dev 1.487

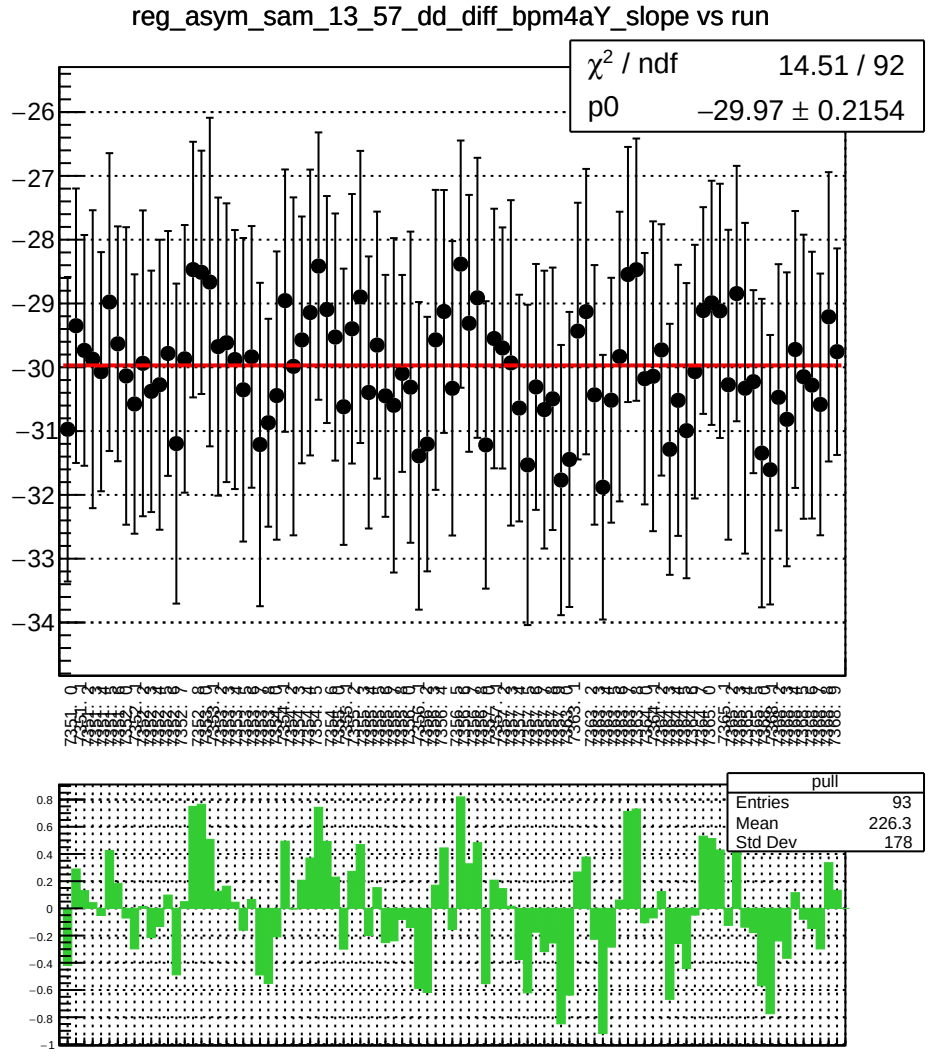

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 88.71 / 92
p0 51.99 ± 0.6971
pull
Entries 93
Mean −1080
Std Dev 1109

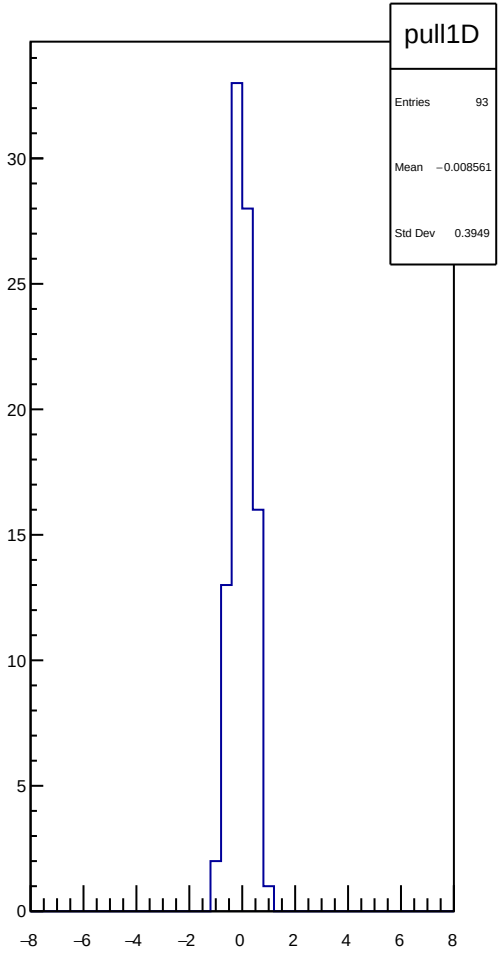

pull1D
Entries 93
Mean −0.007769
Std Dev 0.9766

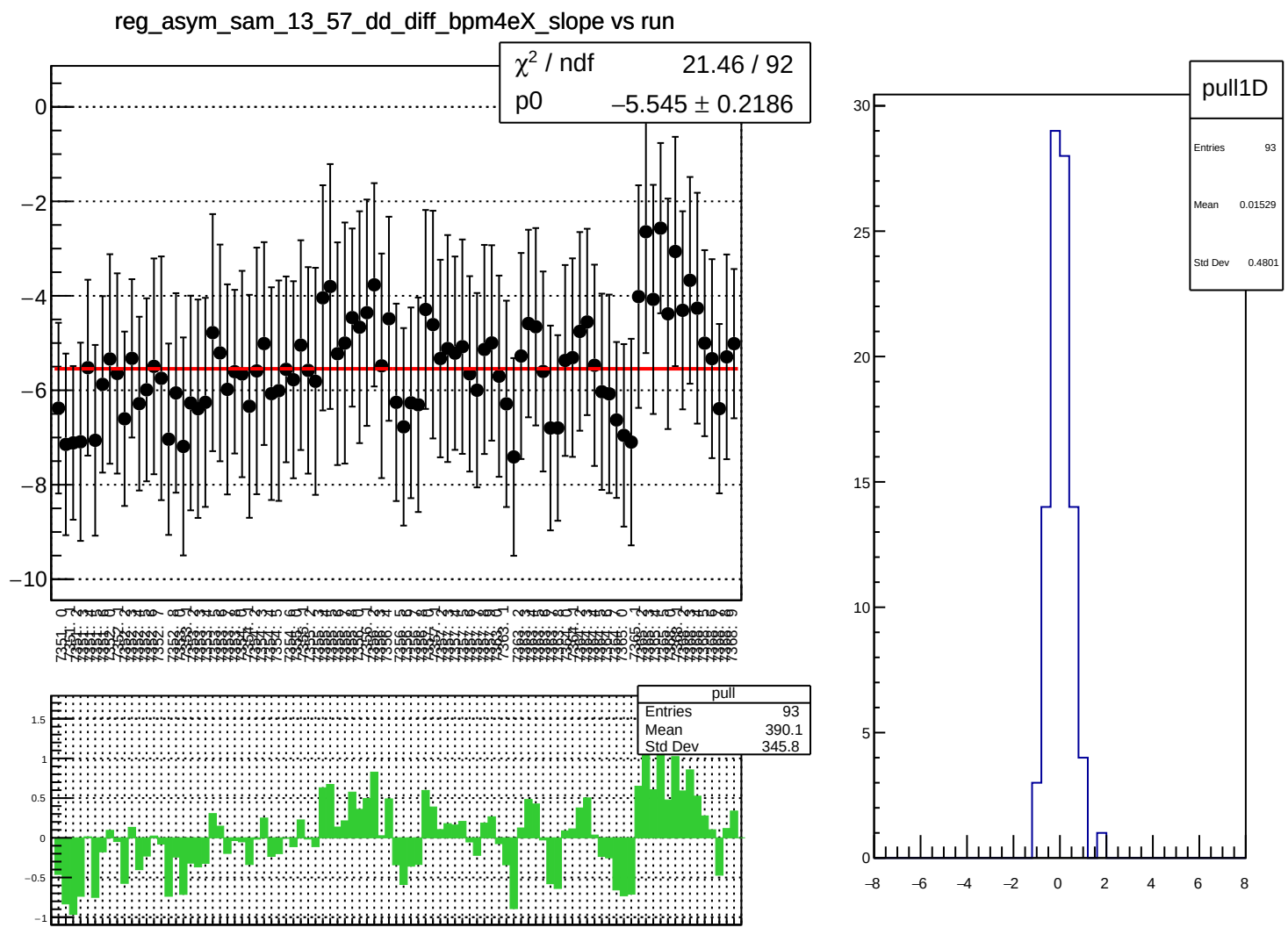

reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ² / ndf 42.32 / 92
p0 −0.9648 ± 0.03272
pull
Entries 93
Mean −697.1
Std Dev 730.1

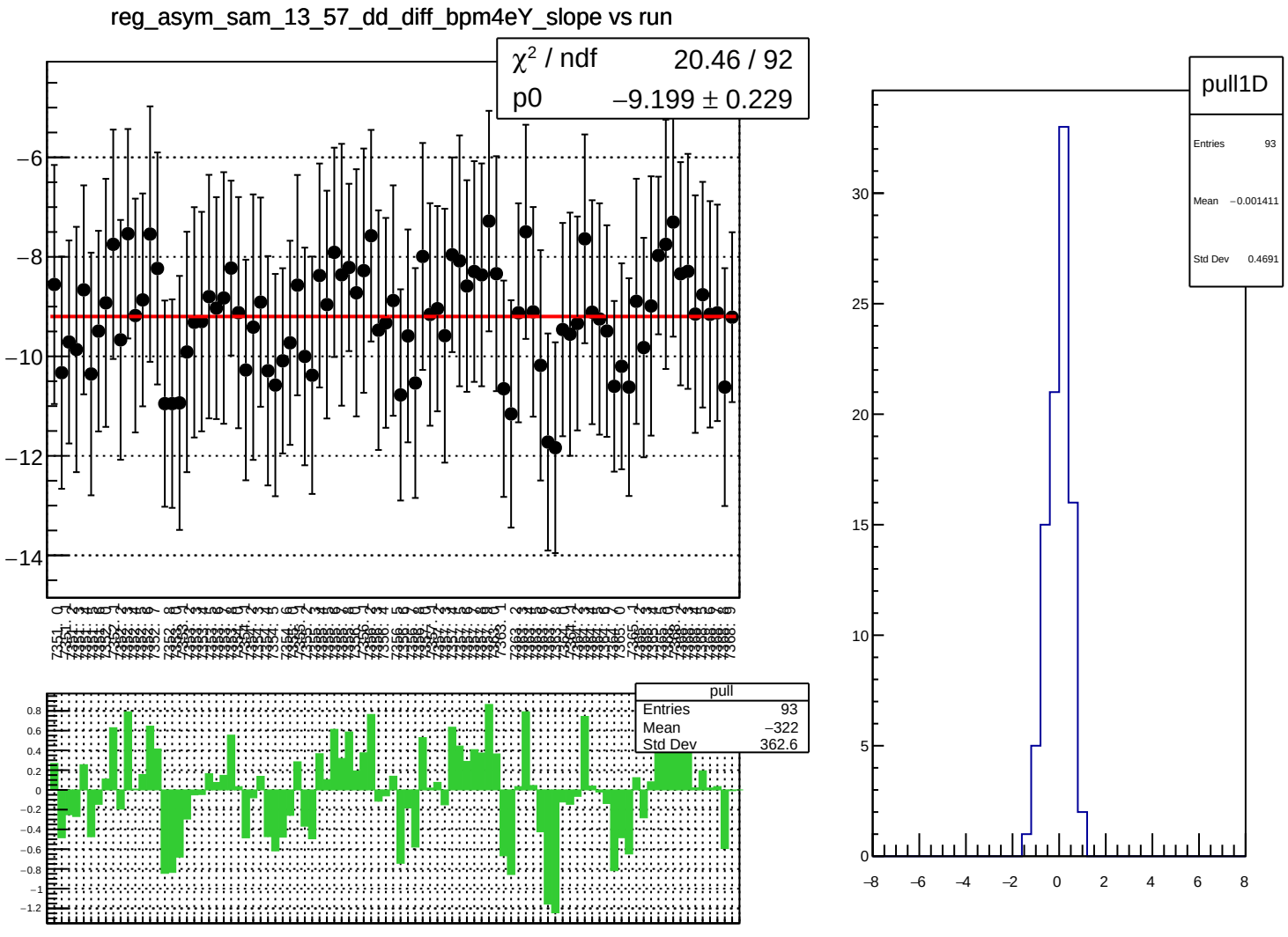

pull1D
Entries 93
Mean −0.0108
Std Dev 0.6745

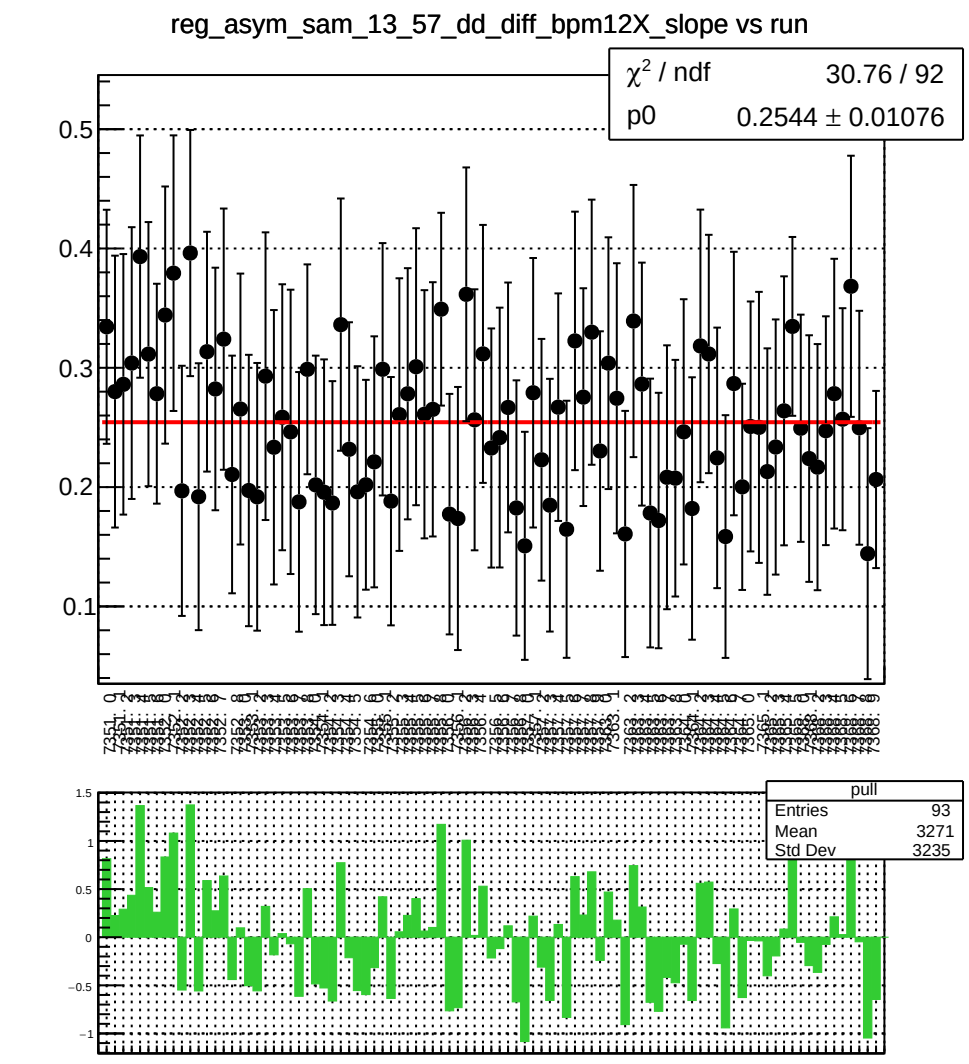

reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ² / ndf 13.07 / 92
p0 −10.09 ± 0.2198
pull
Entries 93
Mean −5361
Std Dev 5414
pull1D
Entries 93
Mean 0.0006167
Std Dev 0.3749

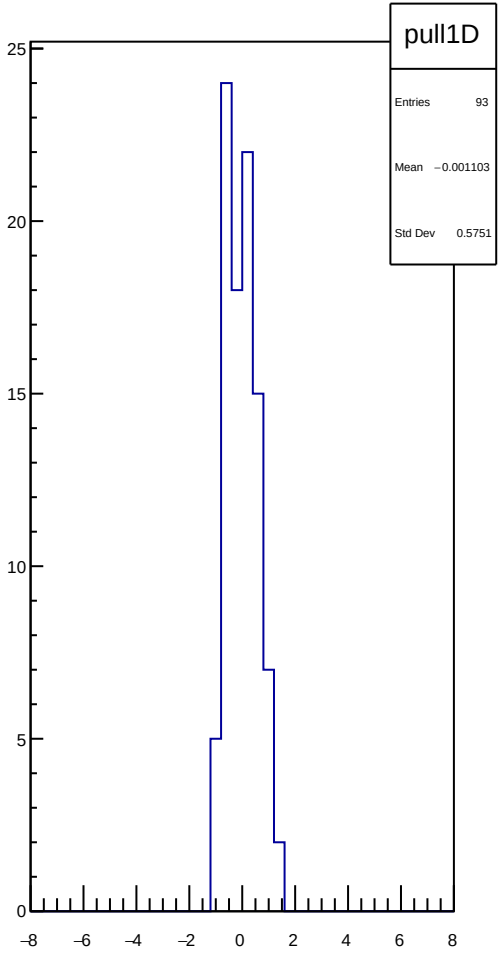

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ² / ndf 14.51 / 92
p0 −29.97 ± 0.2154
pull
Entries 93
Mean 226.3
Std Dev 178

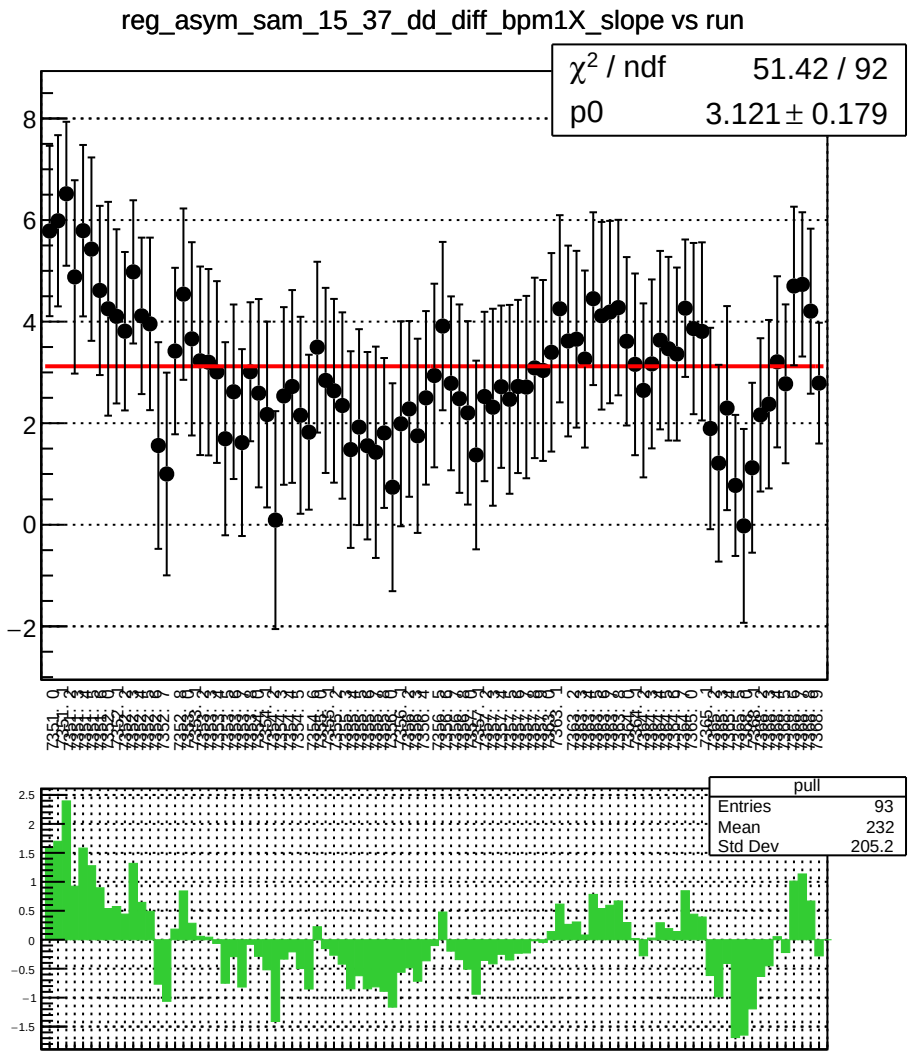

pull1D
Entries 93
Mean −0.008561
Std Dev 0.3949

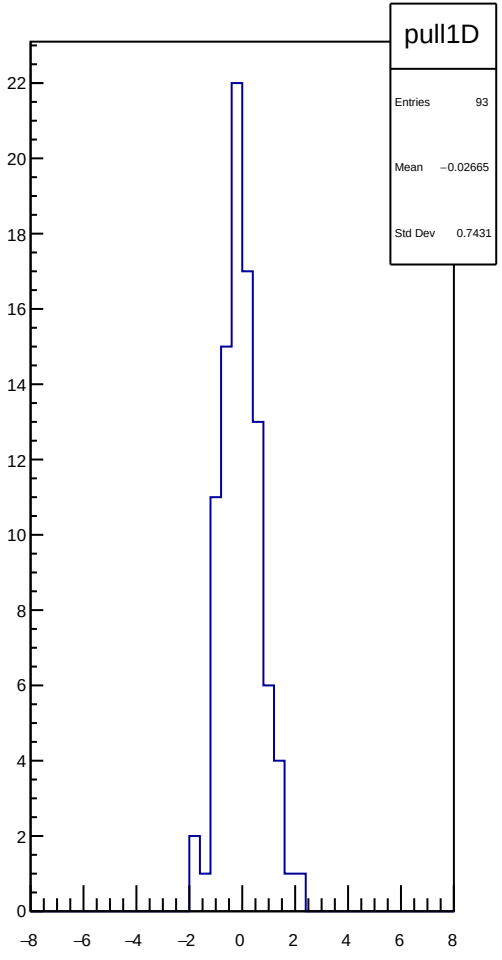

reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ² / ndf 21.46 / 92
p0 −5.545 ± 0.2186
pull
Entries 93
Mean 390.1
Std Dev 345.8
pull1D
Entries 93
Mean 0.01529
Std Dev 0.4801

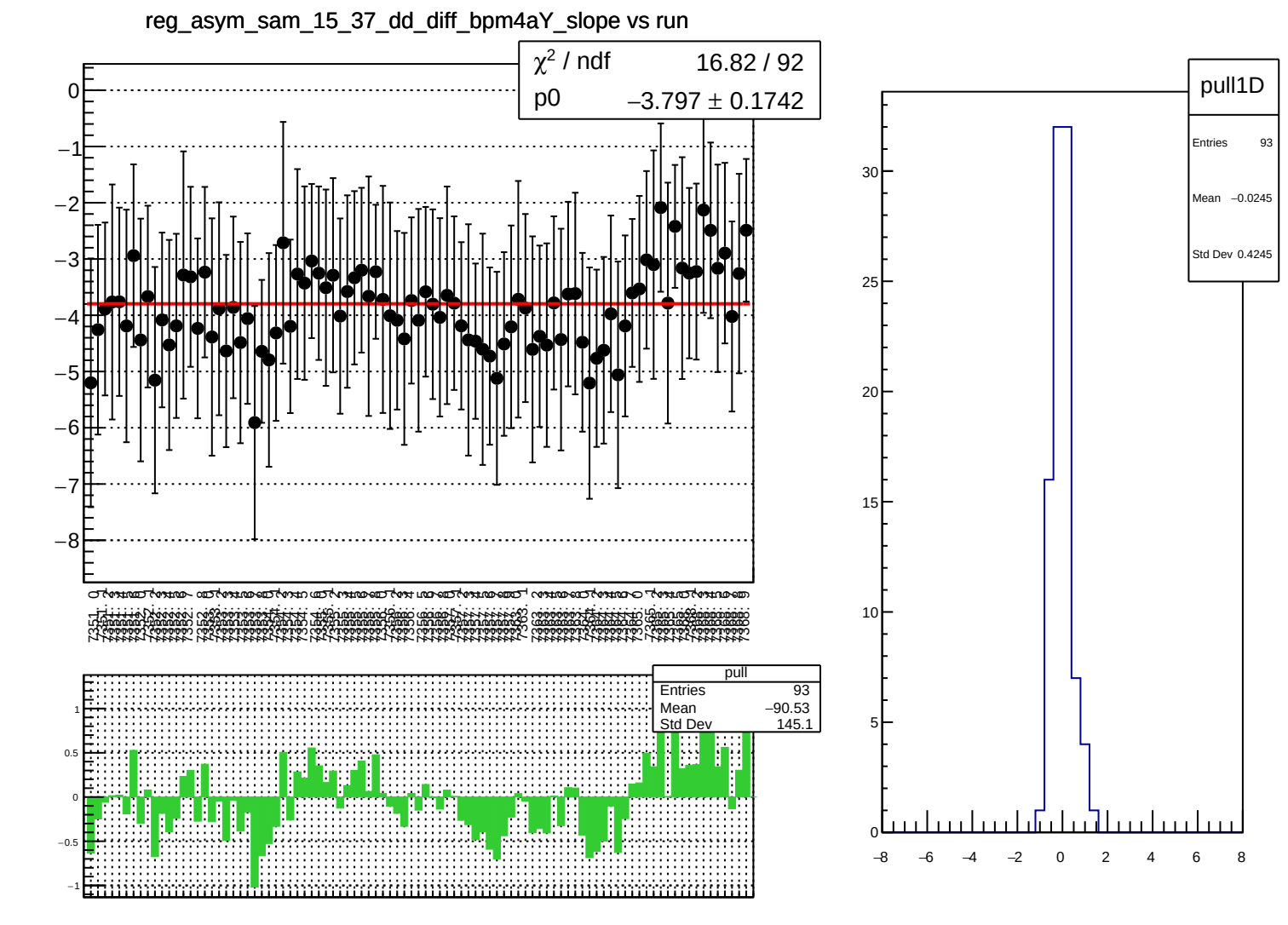

reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ² / ndf 20.46 / 92
p0 −9.199 ± 0.229
−6
−8
−10
−12
−14
pull
Entries 93
Mean −322
Std Dev 362.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull1D
Entries 93
Mean −0.001411
Std Dev 0.4691
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

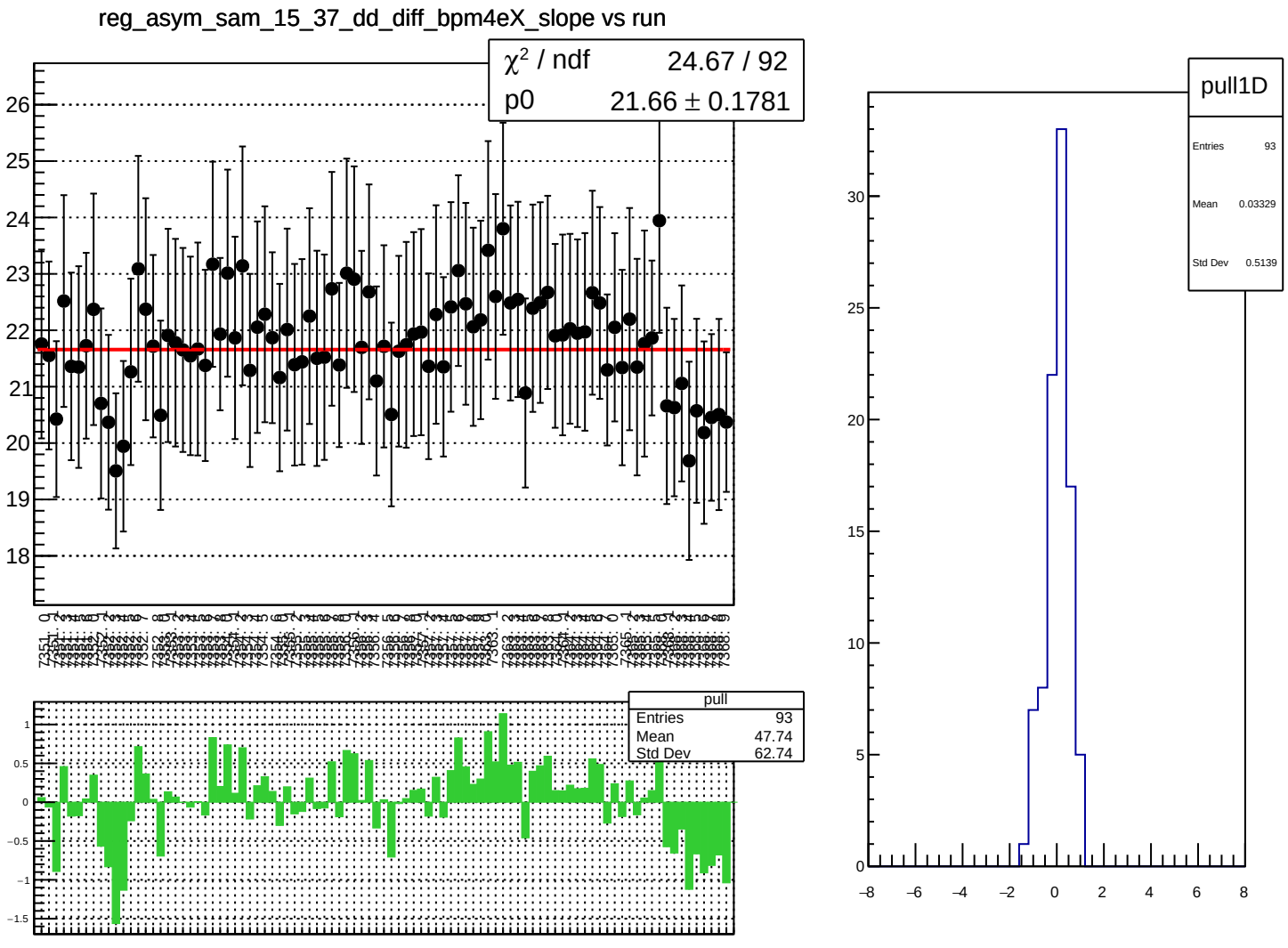

reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ² / ndf 30.76 / 92
p0 0.2544 ± 0.01076
pull
Entries 93
Mean 3271
Std Dev 3235

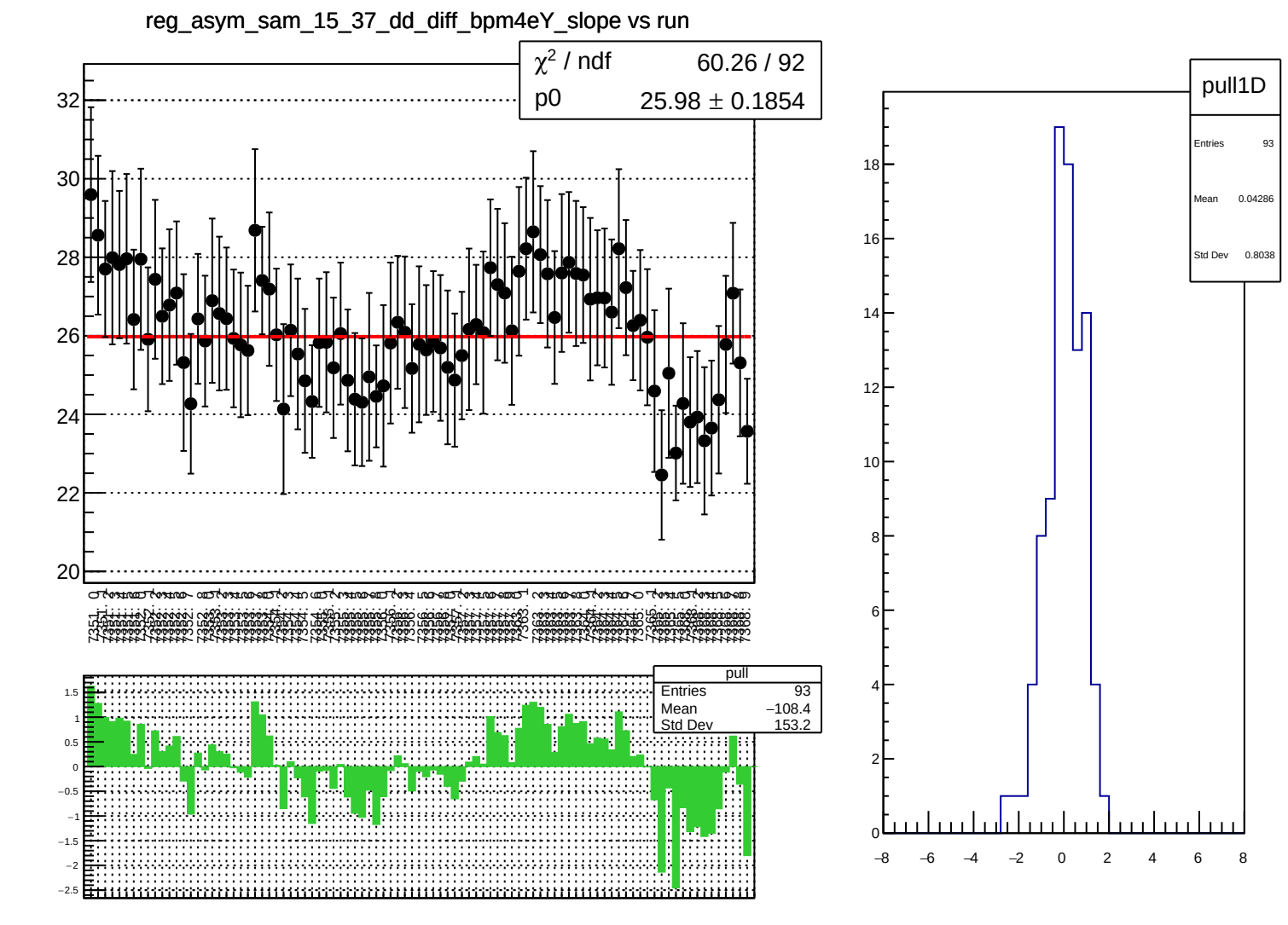

pull1D
Entries 93
Mean −0.001103
Std Dev 0.5751

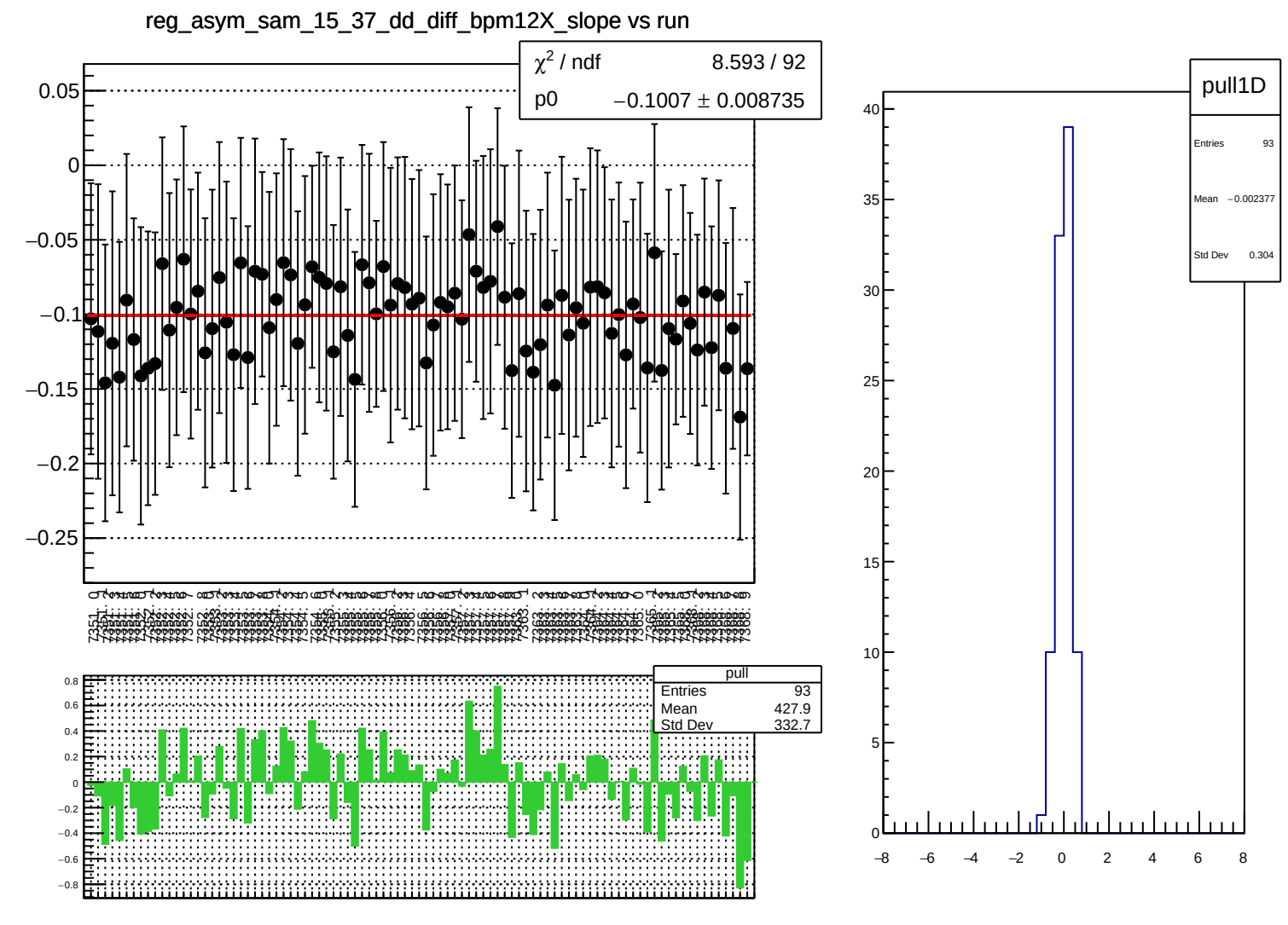

reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ² / ndf 51.42 / 92
p0 3.121 ± 0.179
pull
Entries 93
Mean 232
Std Dev 205.2

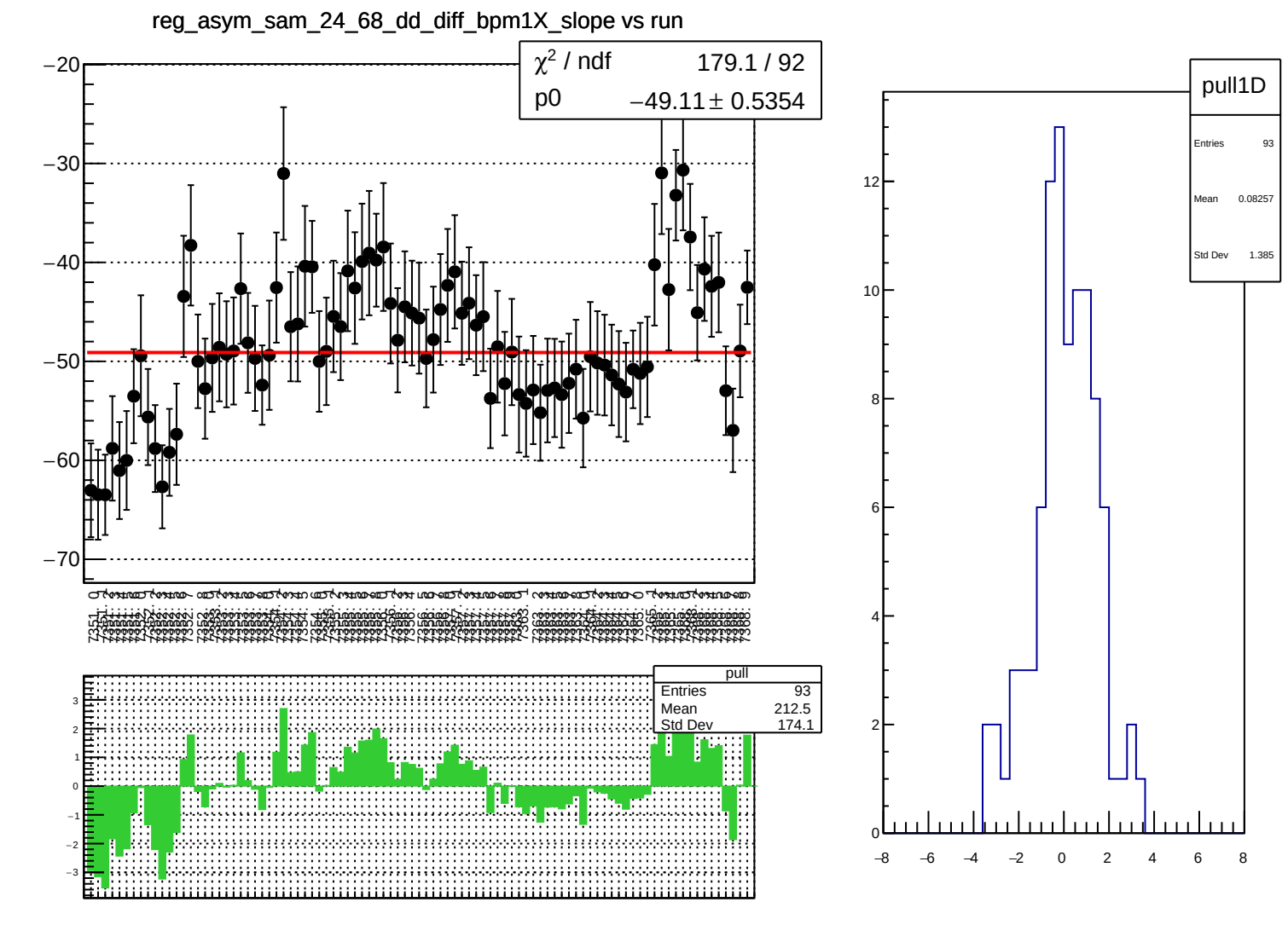

pull1D
Entries 93
Mean −0.02665
Std Dev 0.7431

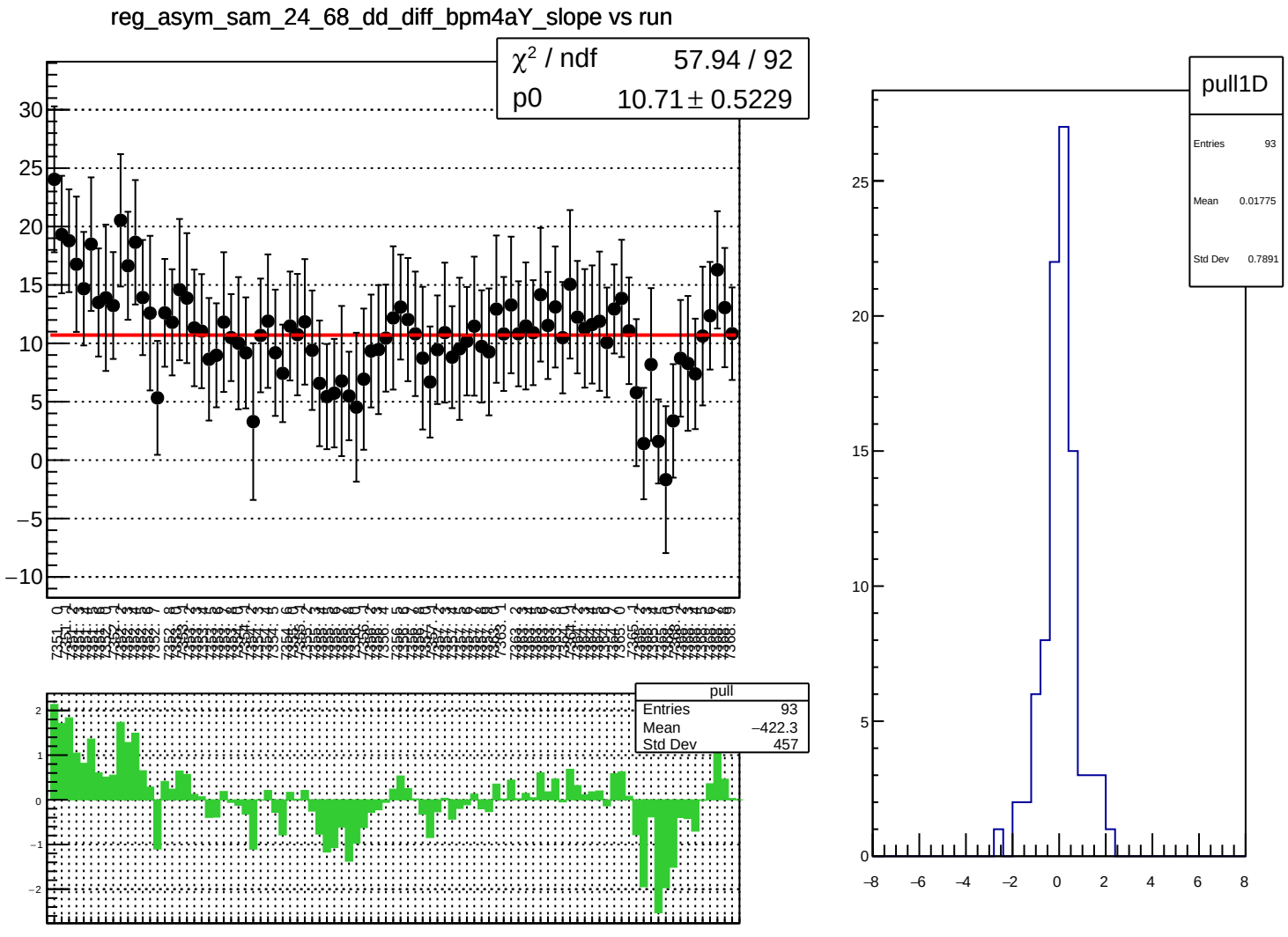

reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 16.82 / 92
p0 −3.797 ± 0.1742
pull
Entries 93
Mean −90.53
Std Dev 145.1
pull1D
Entries 93
Mean −0.0245
Std Dev 0.4245

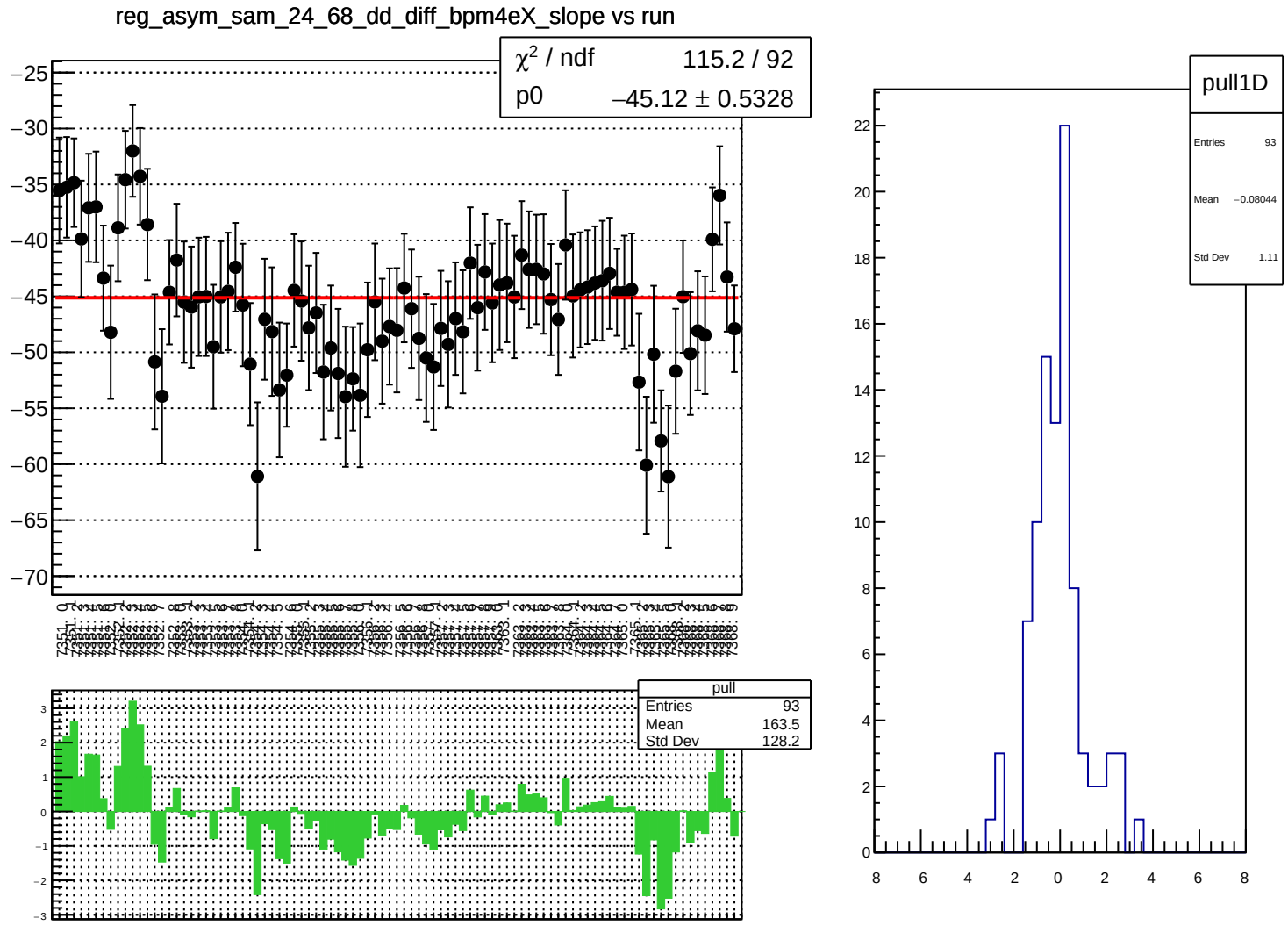

reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 24.67 / 92
p0 21.66 ± 0.1781
pull
Entries 93
Mean 47.74
Std Dev 62.74
pull1D
Entries 93
Mean 0.03329
Std Dev 0.5139

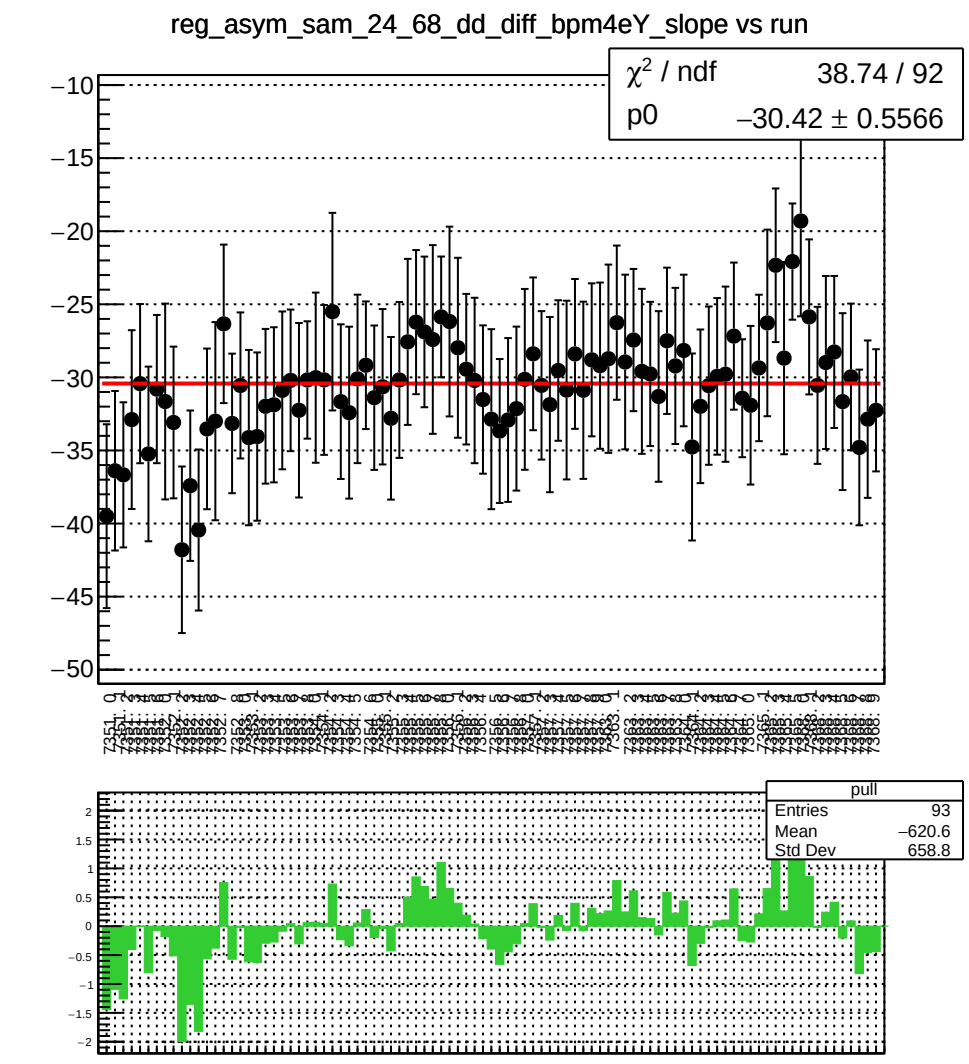

reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 60.26 / 92
p0 25.98 ± 0.1854
pull
Entries 93
Mean −108.4
Std Dev 153.2
pull1D
Entries 93
Mean 0.04286
Std Dev 0.8038

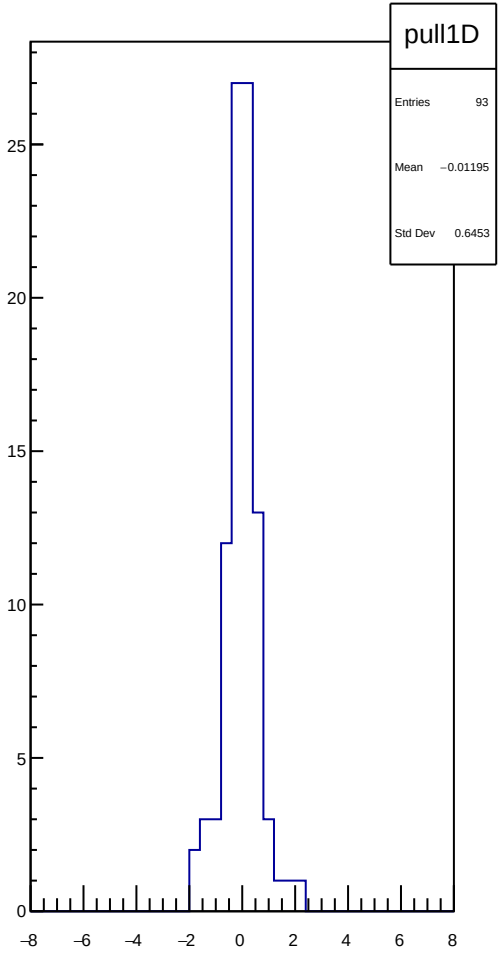

reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ² / ndf 8.593 / 92
p0 −0.1007 ± 0.008735
pull
Entries 93
Mean 427.9
Std Dev 332.7
pull1D
Entries 93
Mean −0.002377
Std Dev 0.304

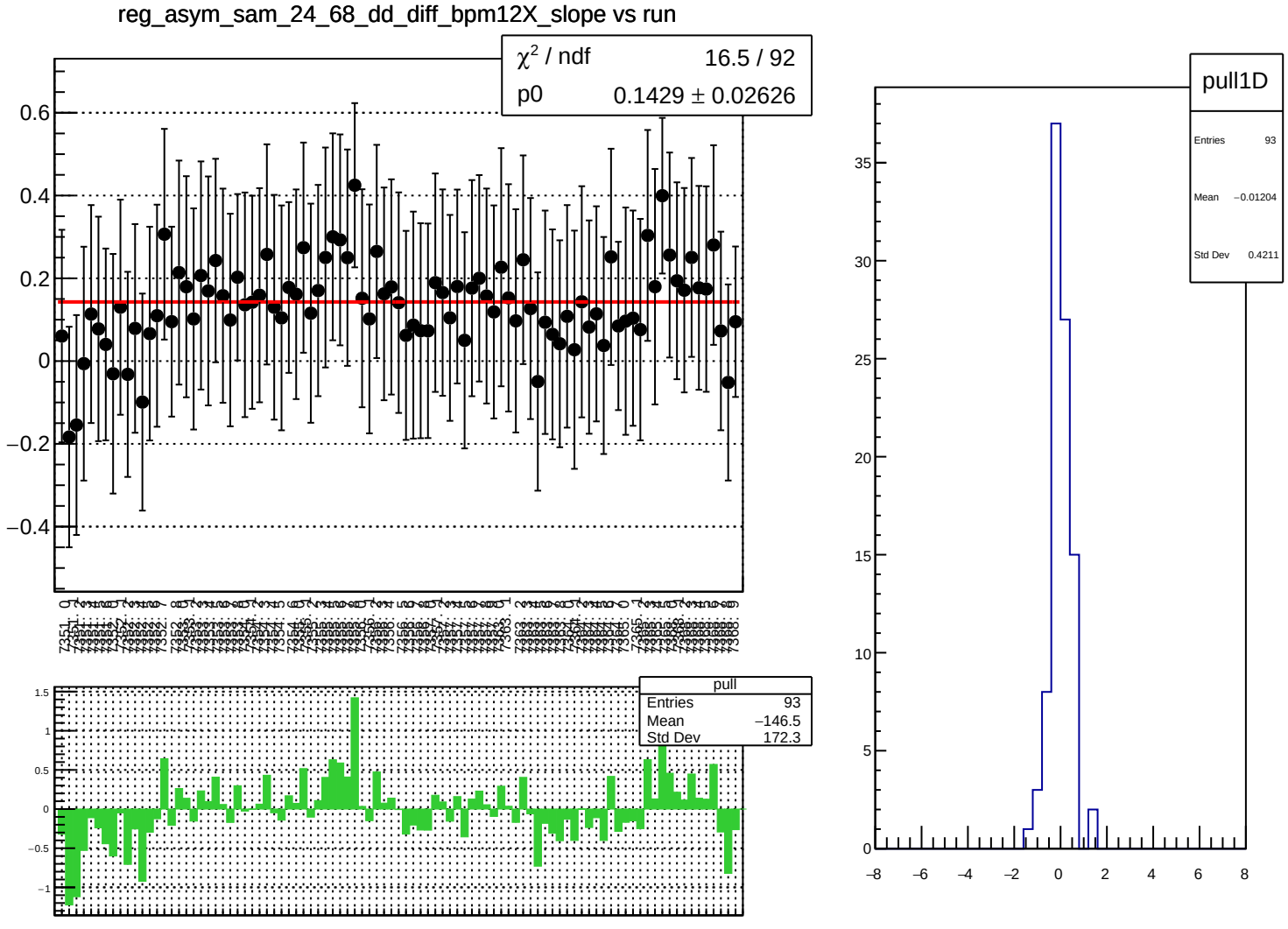

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ² / ndf 179.1 / 92
p0 −49.11 ± 0.5354
pull
Entries 93
Mean 212.5
Std Dev 174.1
pull1D
Entries 93
Mean 0.08257
Std Dev 1.385

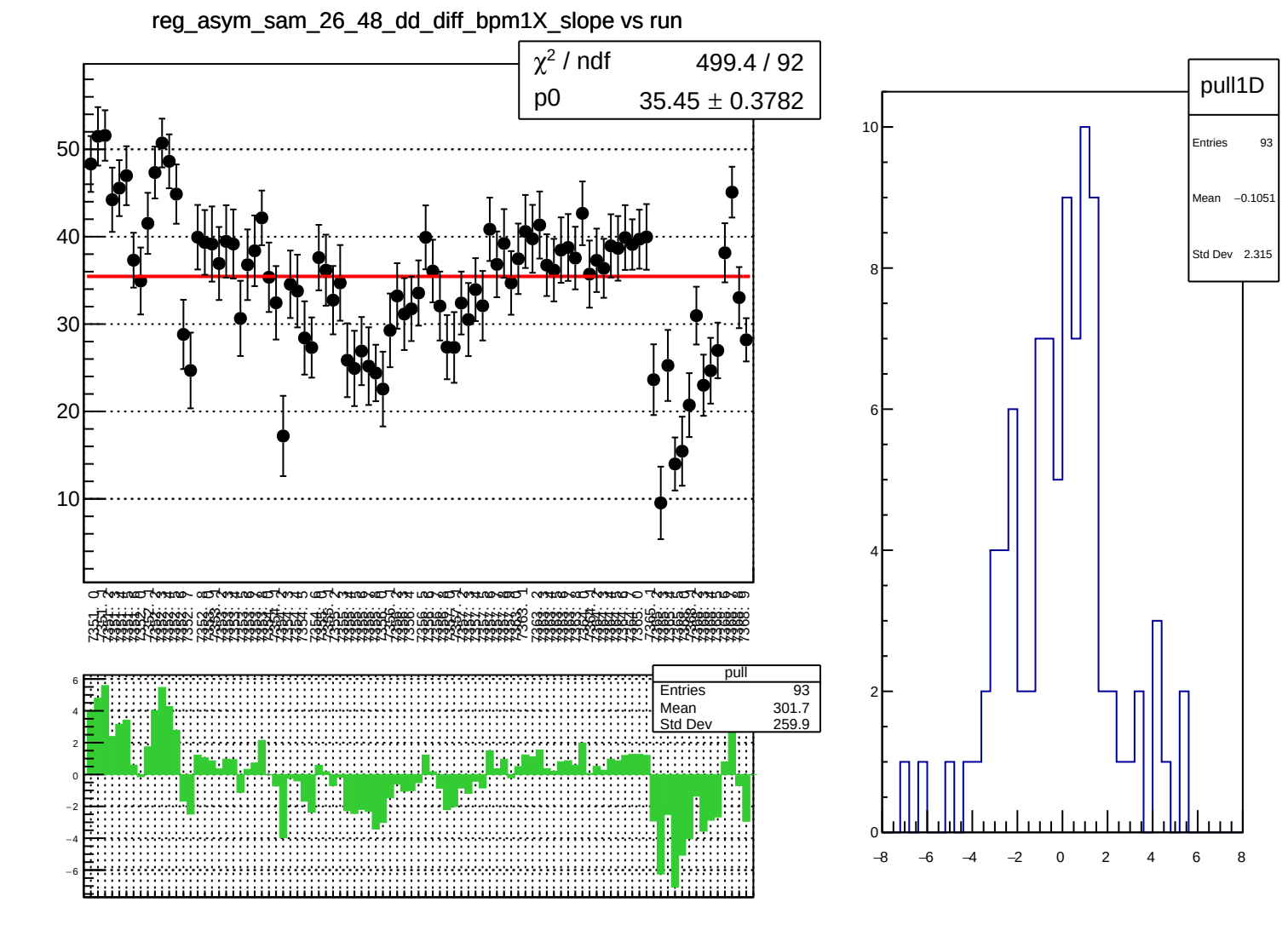

reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ² / ndf 57.94 / 92
p0 10.71 ± 0.5229
pull
Entries 93
Mean −422.3
Std Dev 457
pull1D
Entries 93
Mean 0.01775
Std Dev 0.7891

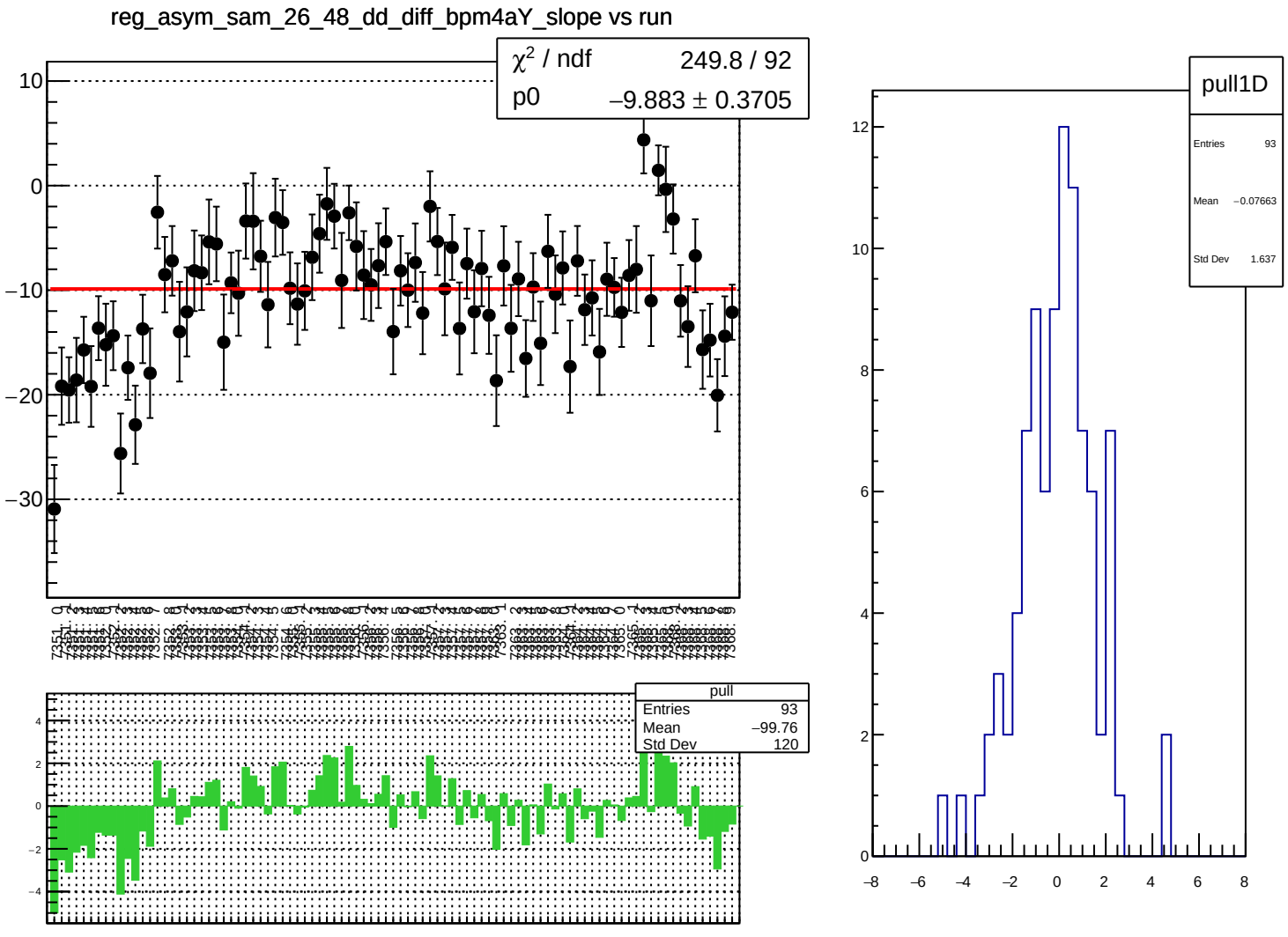

reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ² / ndf 115.2 / 92
p0 −45.12 ± 0.5328
pull
Entries 93
Mean 163.5
Std Dev 128.2
pull1D
Entries 93
Mean −0.08044
Std Dev 1.11

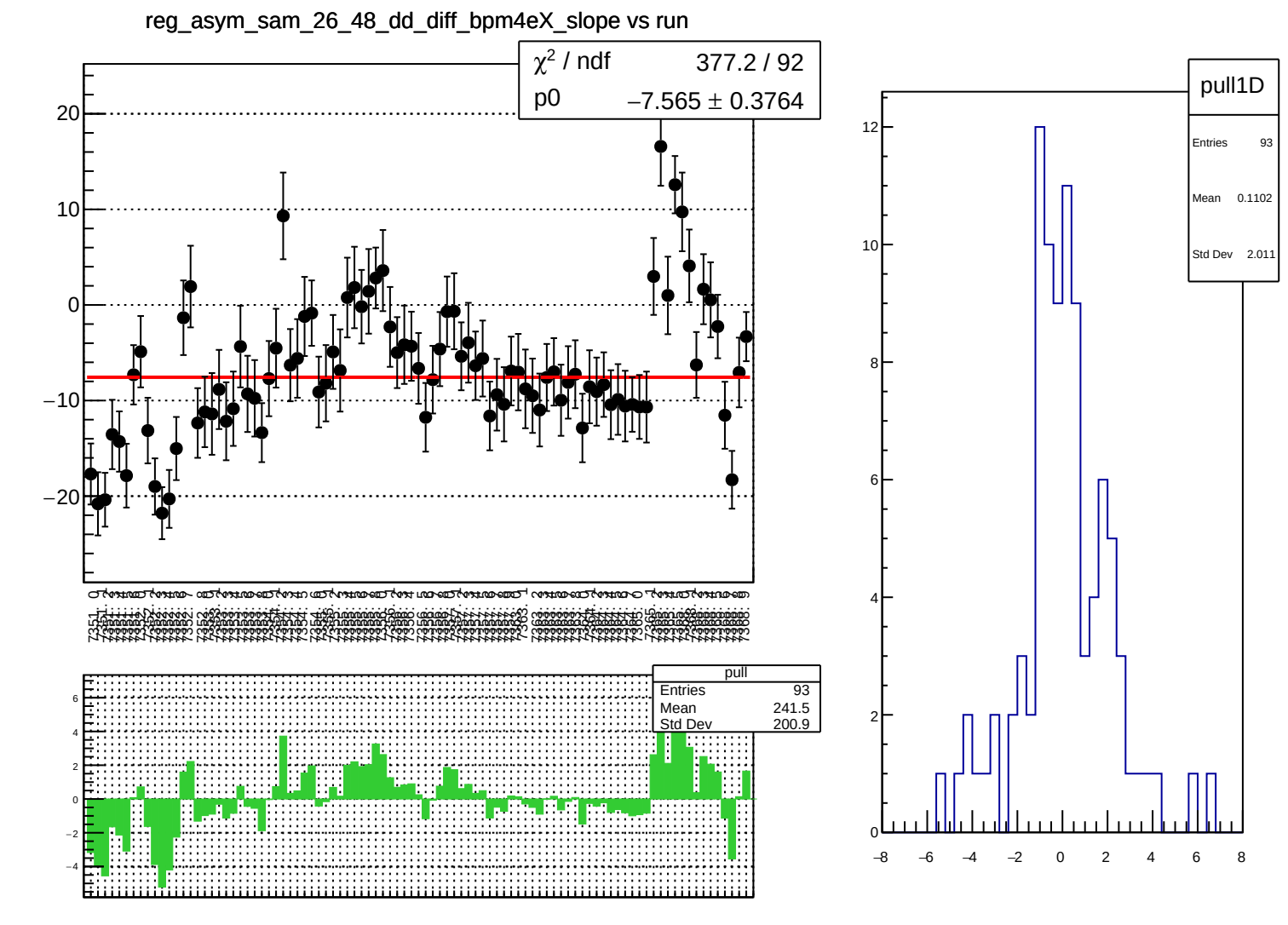

reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ² / ndf 38.74 / 92
p0 −30.42 ± 0.5566
pull
Entries 93
Mean −620.6
Std Dev 658.8

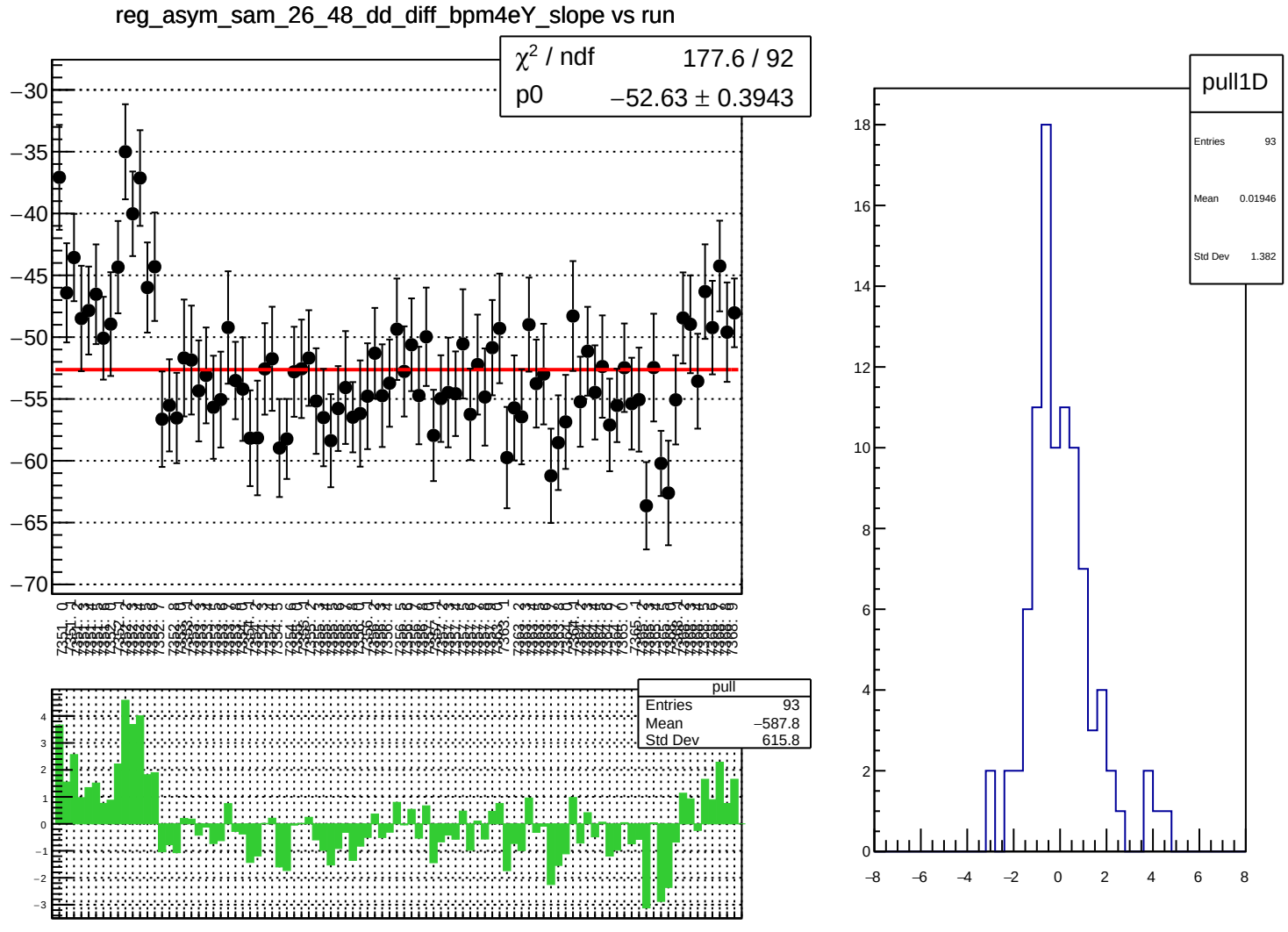

pull1D
Entries 93
Mean −0.01195
Std Dev 0.6453

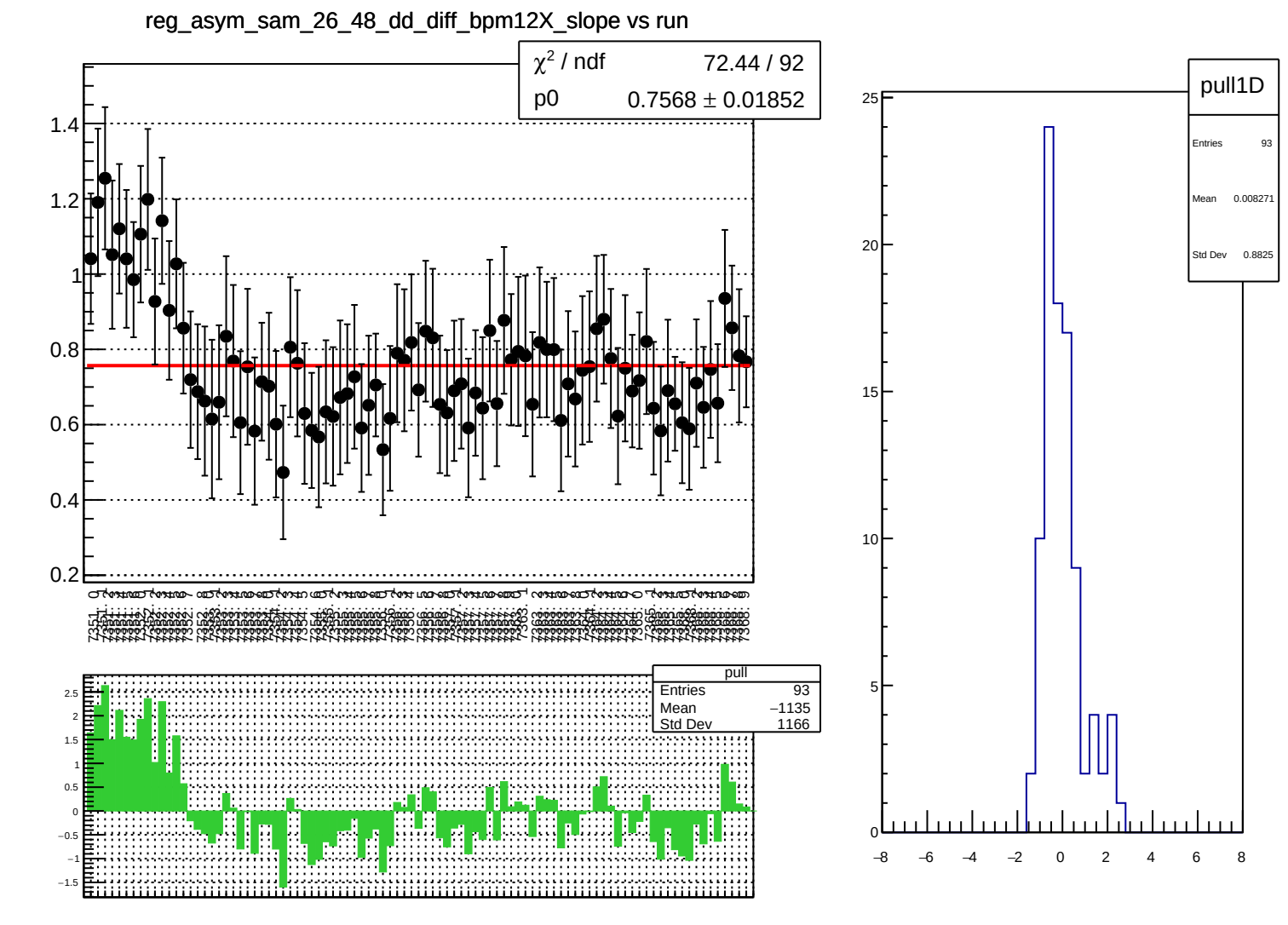

reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ² / ndf 16.5 / 92
p0 0.1429 ± 0.02626
pull
Entries 93
Mean −146.5
Std Dev 172.3
pull1D
Entries 93
Mean −0.01204
Std Dev 0.4211

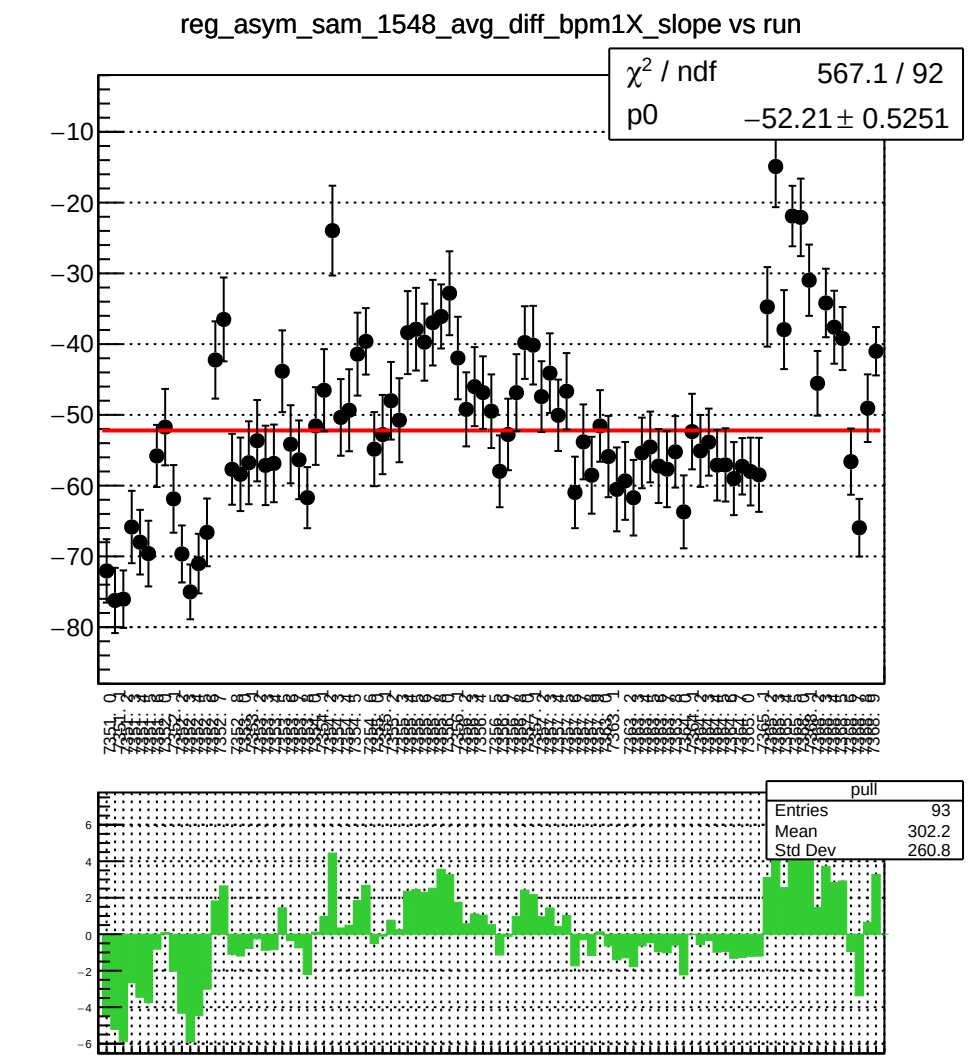

reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ² / ndf 499.4 / 92
p0 35.45 ± 0.3782
pull
Entries 93
Mean 301.7
Std Dev 259.9
pull1D
Entries 93
Mean −0.1051
Std Dev 2.315

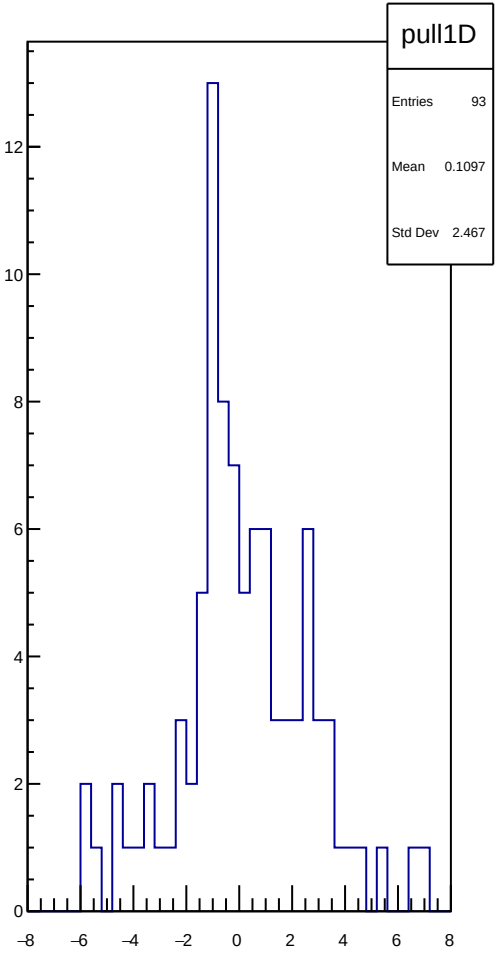

reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 249.8 / 92
p0 −9.883 ± 0.3705
pull
Entries 93
Mean −99.76
Std Dev 120
pull1D
Entries 93
Mean −0.07663
Std Dev 1.637

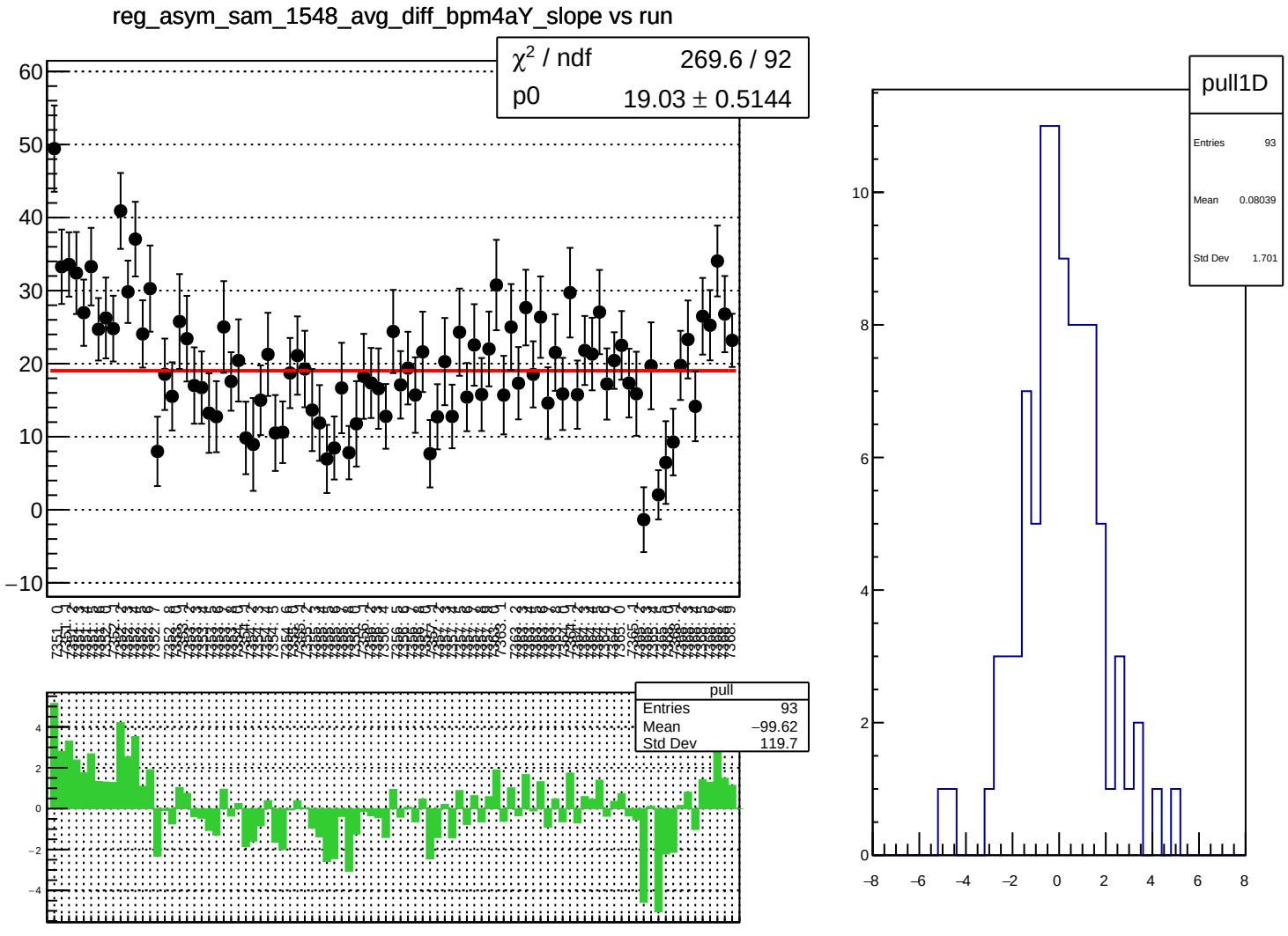

reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 377.2 / 92
p0 −7.565 ± 0.3764
pull
Entries 93
Mean 241.5
Std Dev 200.9
pull1D
Entries 93
Mean 0.1102
Std Dev 2.011

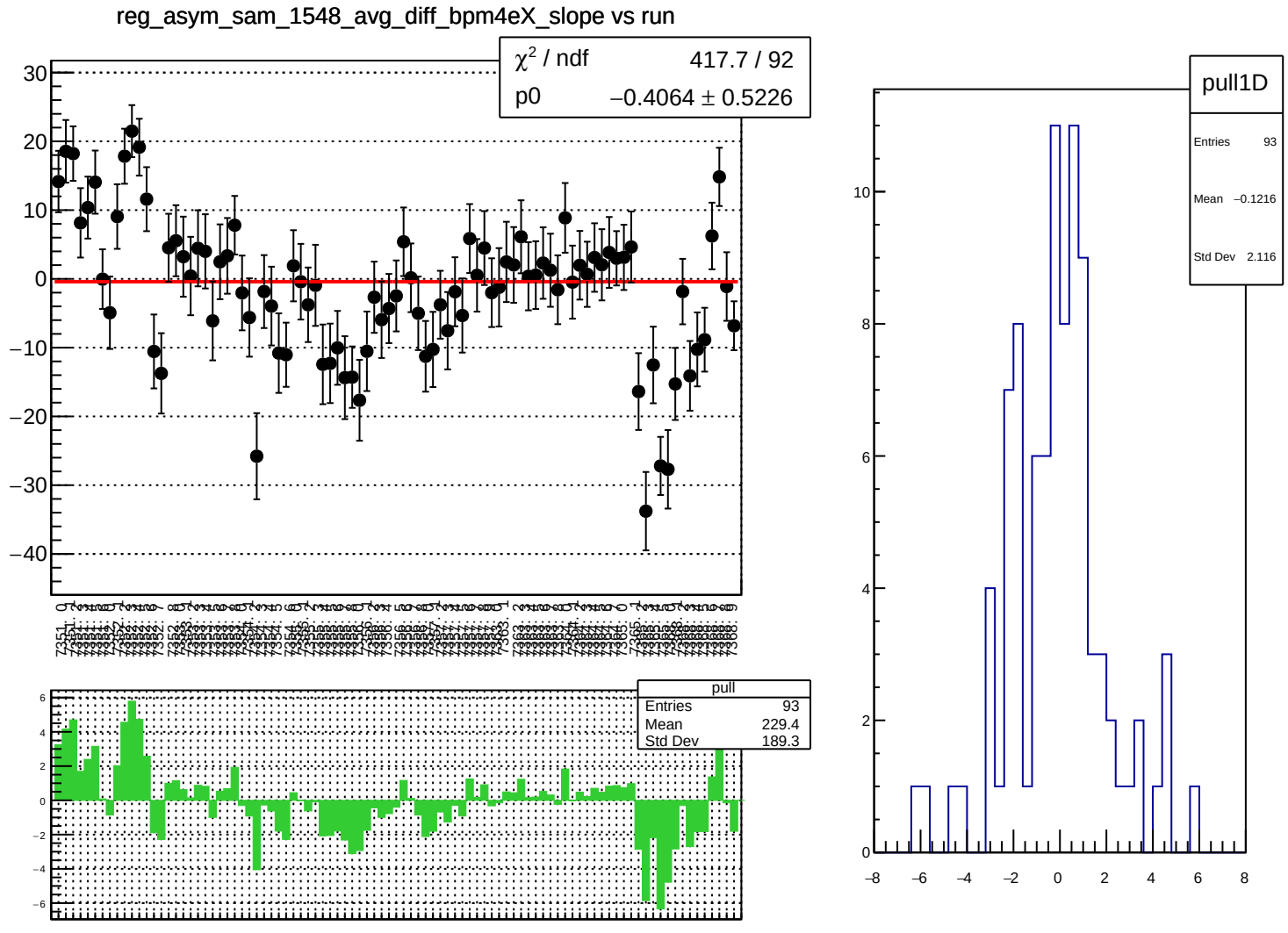

reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 177.6 / 92
p0 −52.63 ± 0.3943
pull
Entries 93
Mean −587.8
Std Dev 615.8
pull1D
Entries 93
Mean 0.01946
Std Dev 1.382

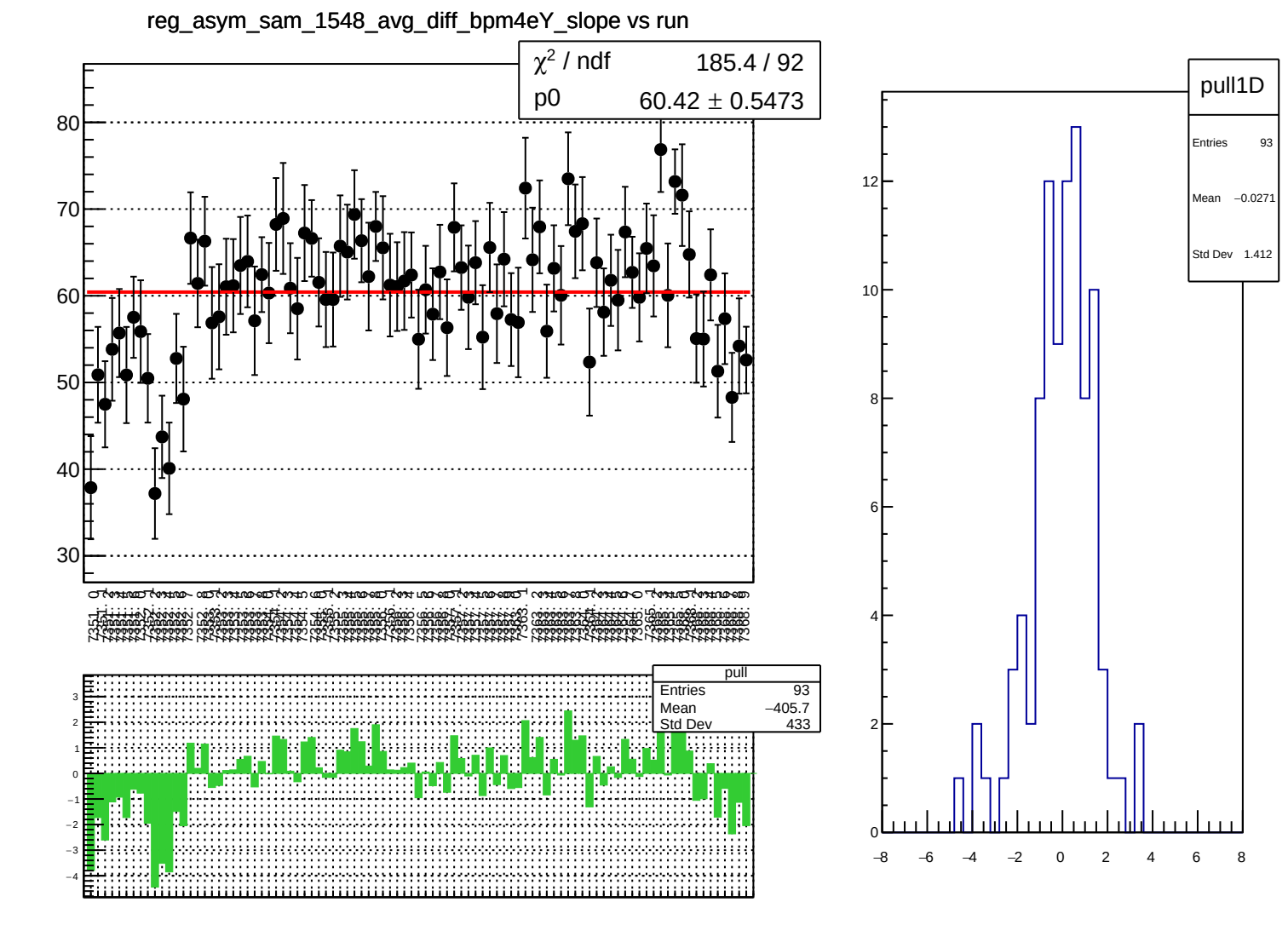

reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ² / ndf 72.44 / 92
p0 0.7568 ± 0.01852
pull
Entries 93
Mean −1135
Std Dev 1166
pull1D
Entries 93
Mean 0.008271
Std Dev 0.8825

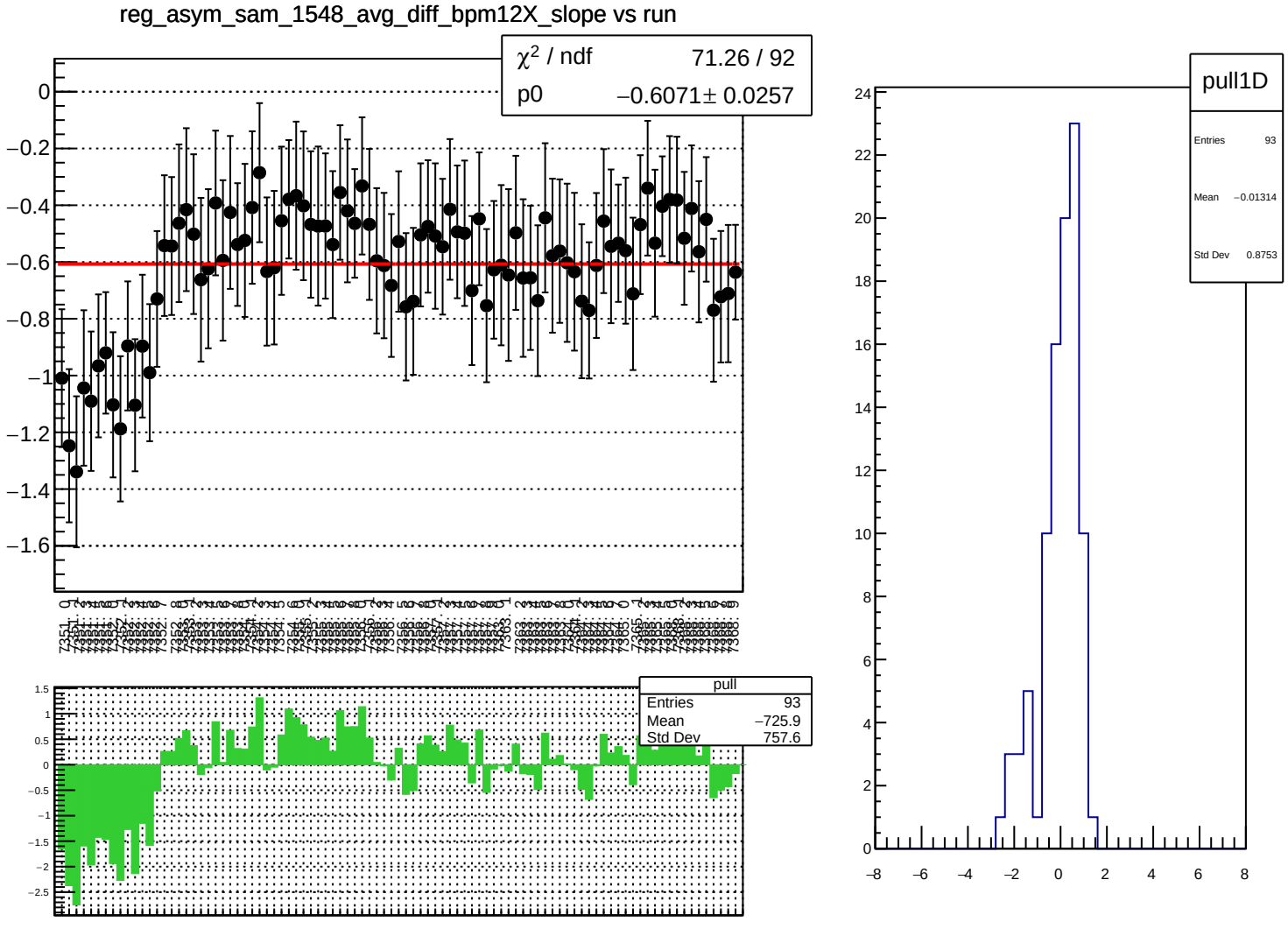

reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ² / ndf 567.1 / 92
p0 −52.21 ± 0.5251
pull
Entries 93
Mean 302.2
Std Dev 260.8

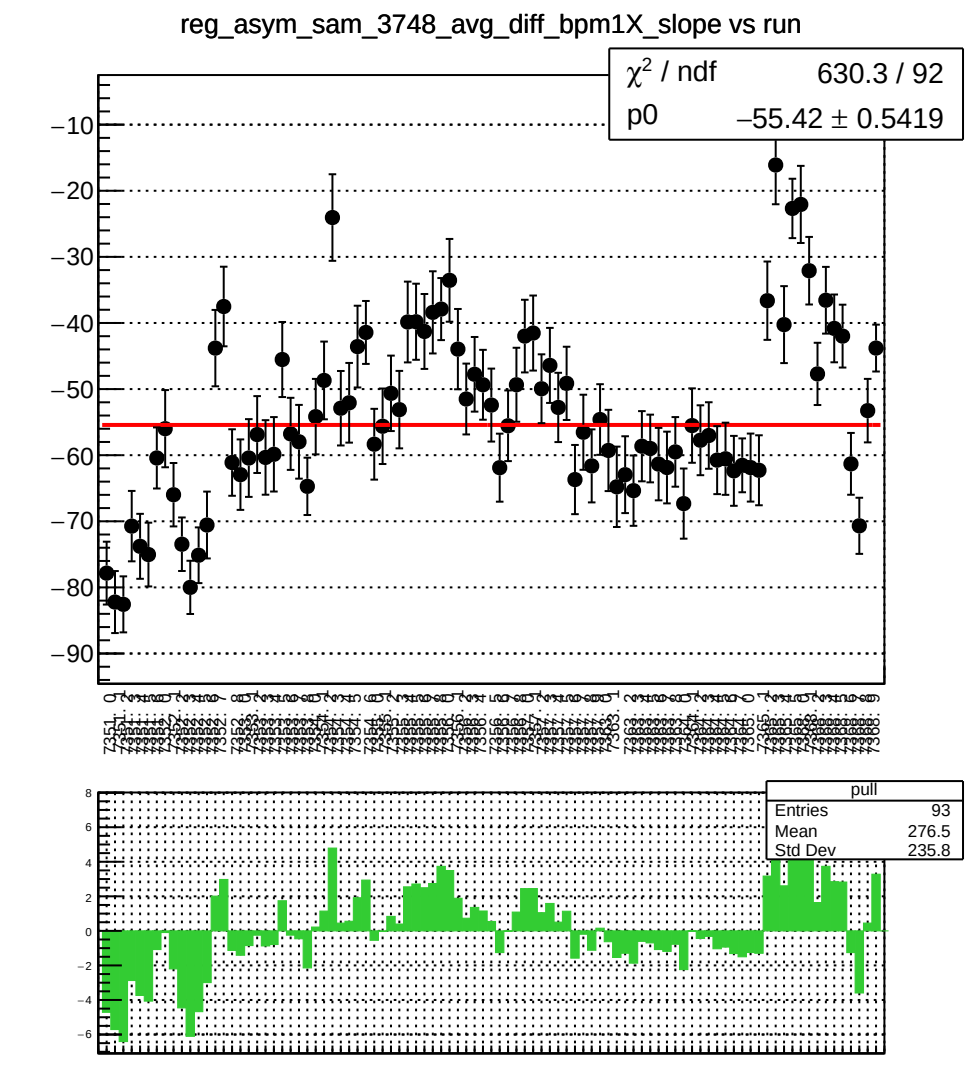

pull1D
Entries 93
Mean 0.1097
Std Dev 2.467

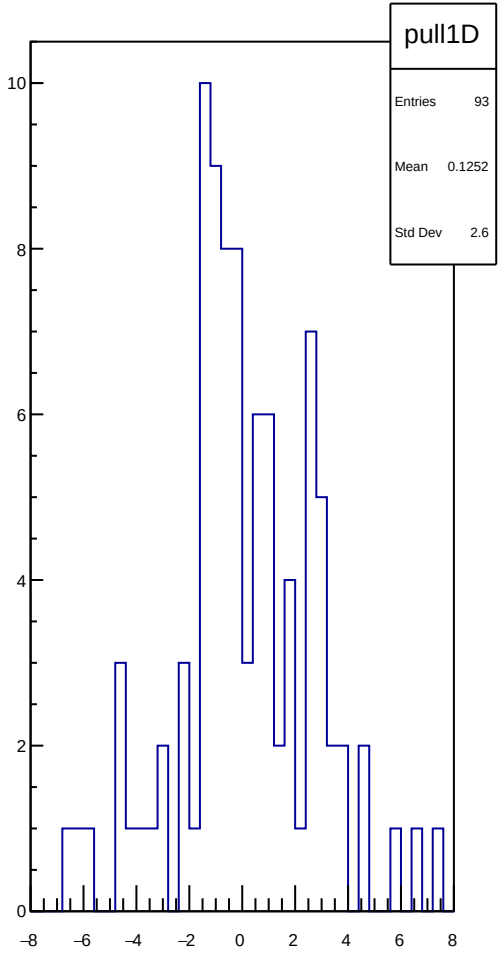

reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ² / ndf 269.6 / 92
p0 19.03 ± 0.5144
pull
Entries 93
Mean −99.62
Std Dev 119.7
pull1D
Entries 93
Mean 0.08039
Std Dev 1.701

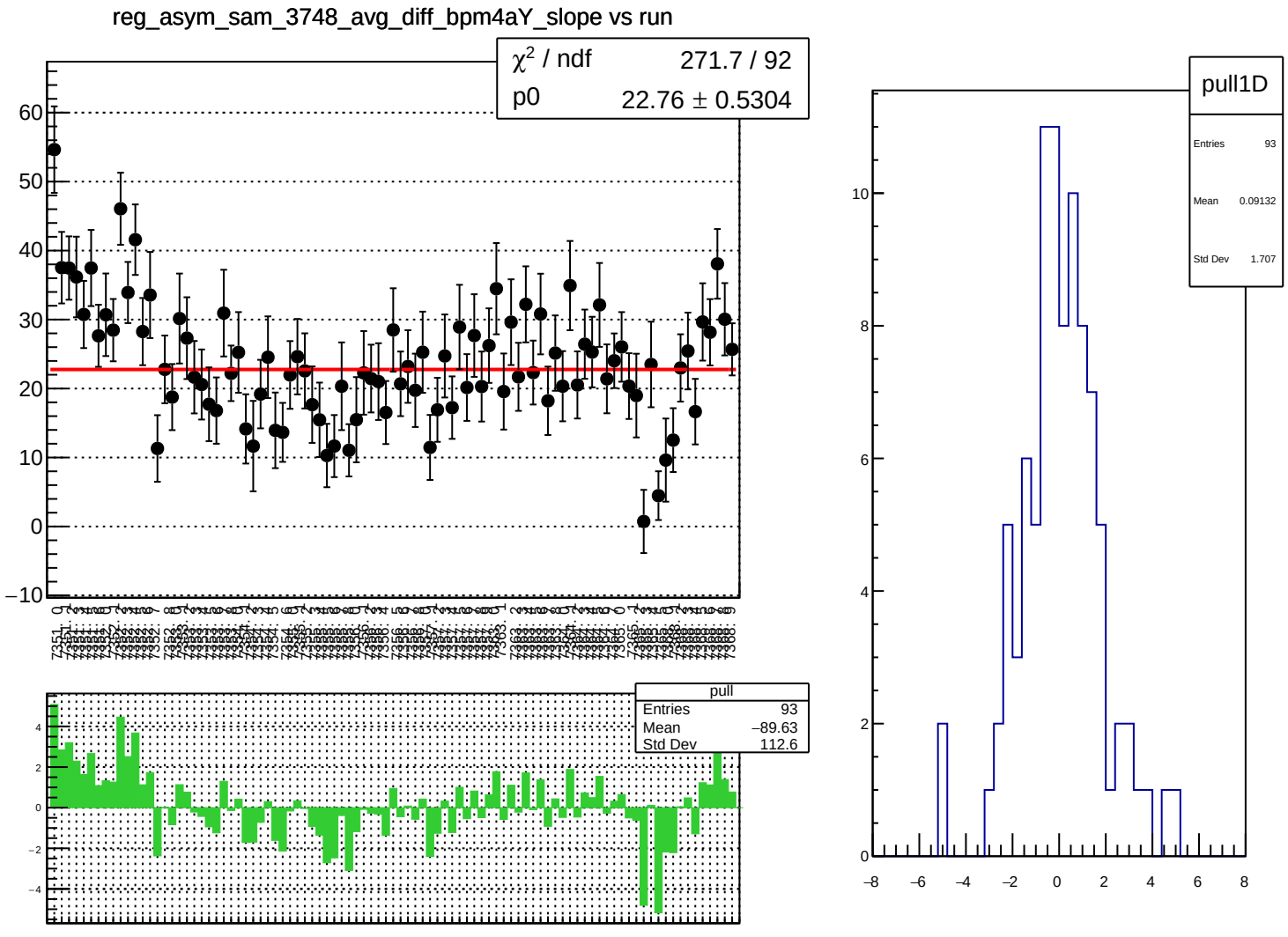

reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ² / ndf 417.7 / 92
p0 −0.4064 ± 0.5226
pull
Entries 93
Mean 229.4
Std Dev 189.3
pull1D
Entries 93
Mean −0.1216
Std Dev 2.116

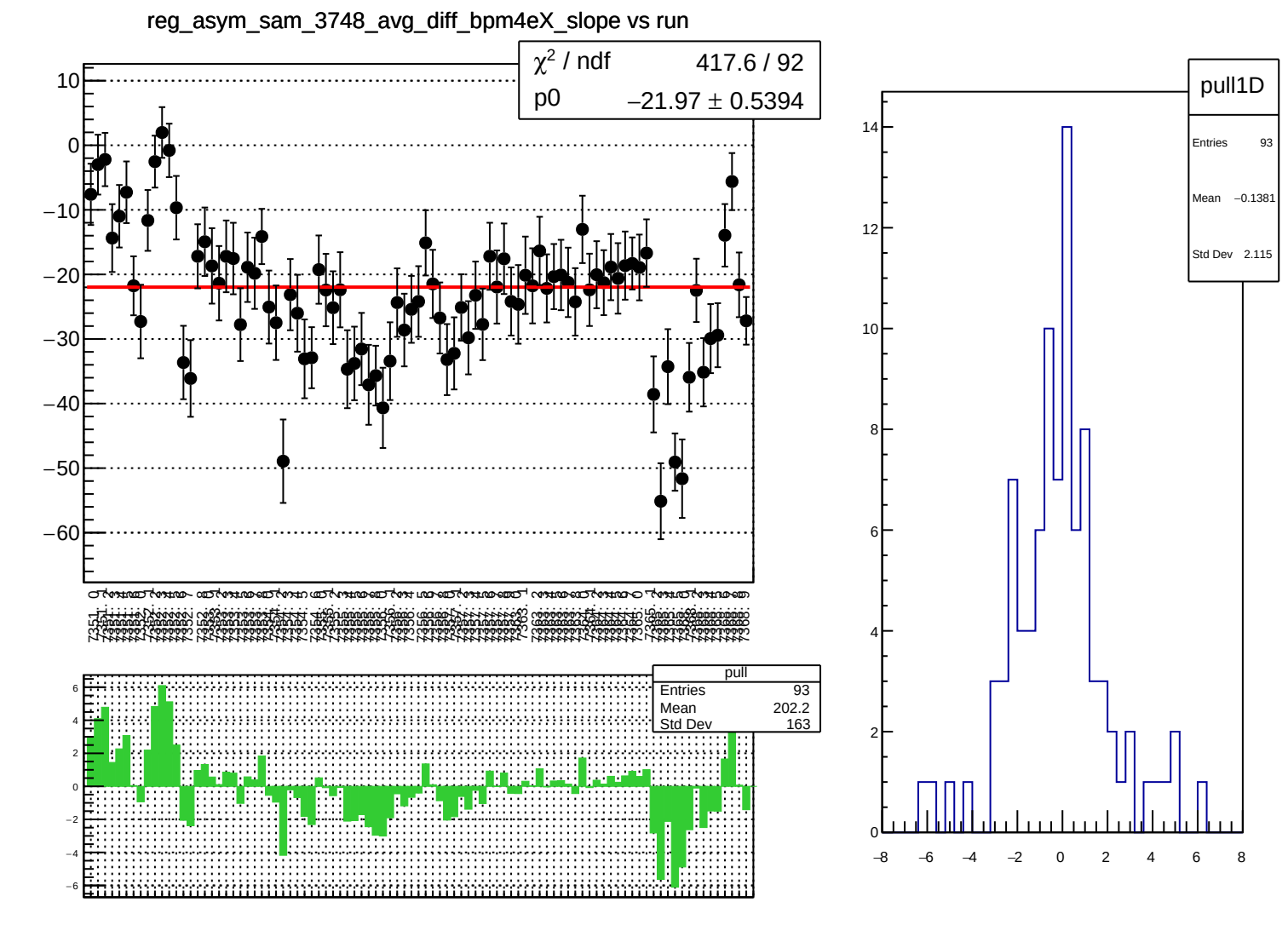

reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ² / ndf 185.4 / 92
p0 60.42 ± 0.5473
pull
Entries 93
Mean −405.7
Std Dev 433
pull1D
Entries 93
Mean −0.0271
Std Dev 1.412

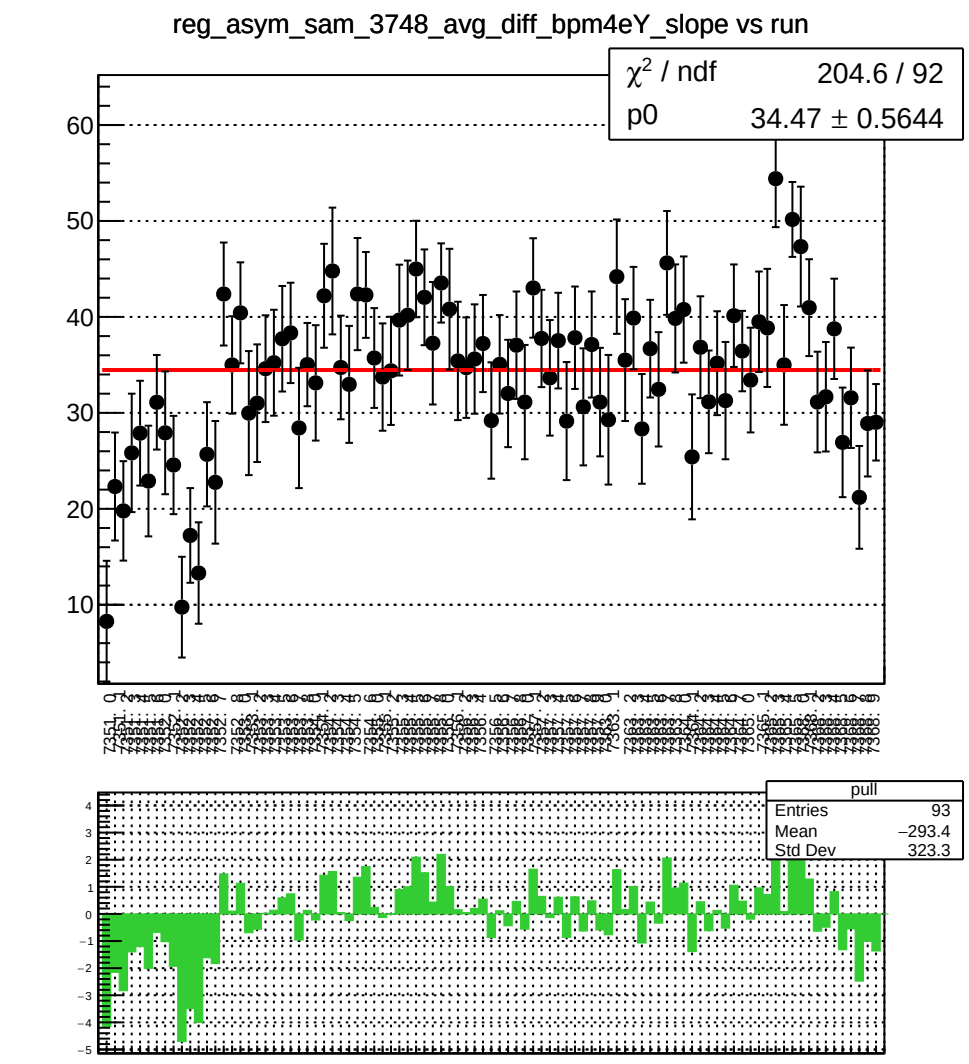

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ² / ndf 71.26 / 92
p0 −0.6071± 0.0257
pull
Entries 93
Mean −725.9
Std Dev 757.6
pull1D
Entries 93
Mean −0.01314
Std Dev 0.8753

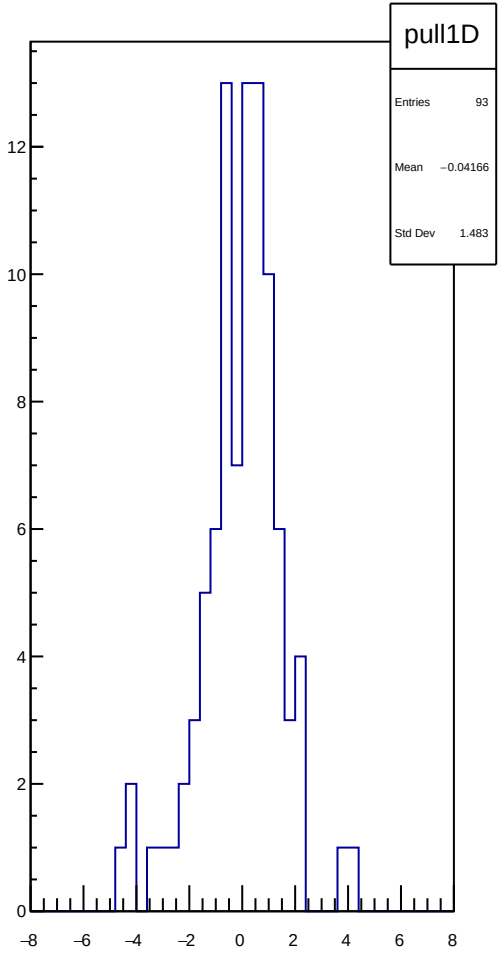

reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ² / ndf 630.3 / 92
p0 −55.42 ± 0.5419
pull
Entries 93
Mean 276.5
Std Dev 235.8

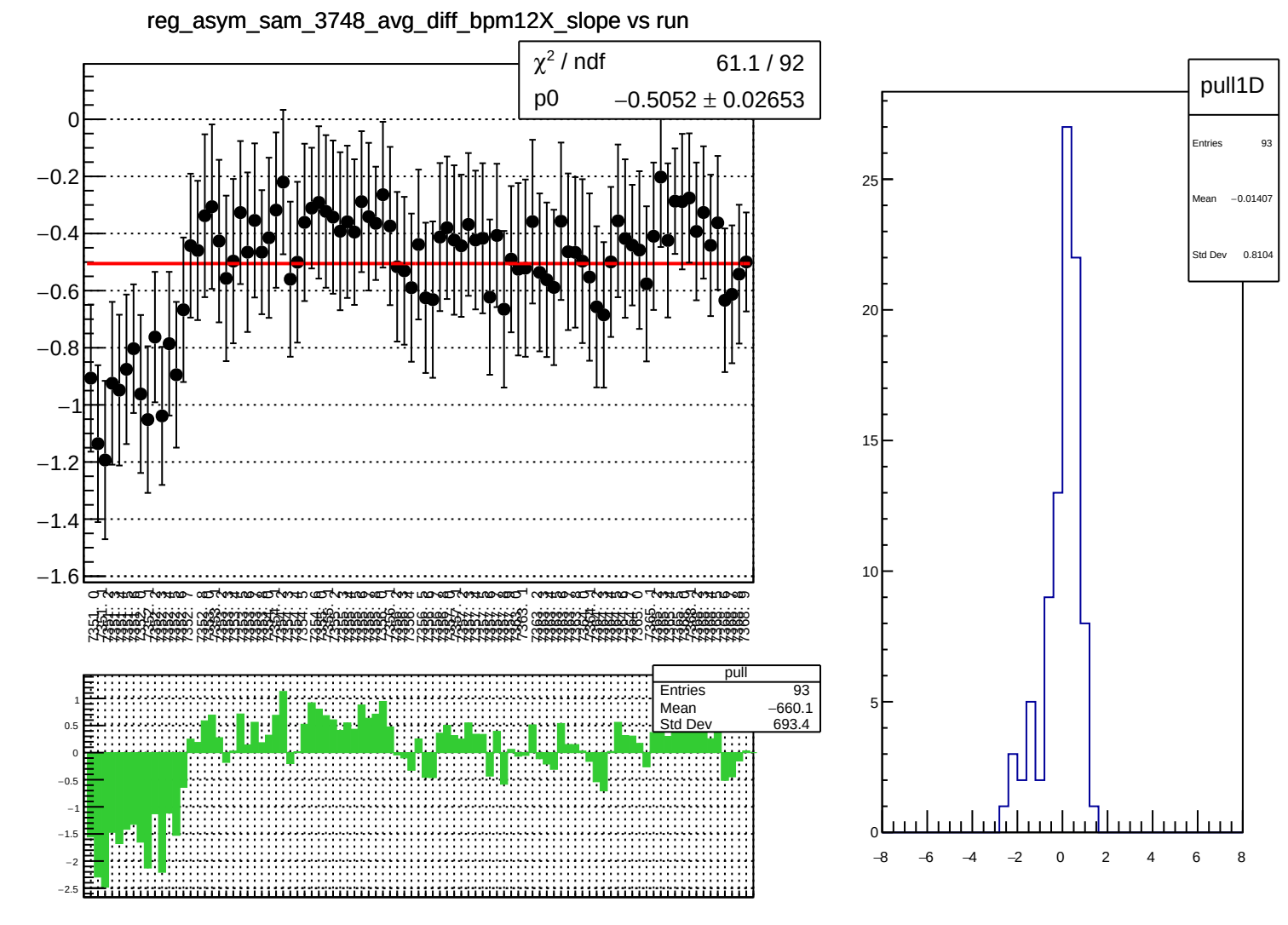

pull1D
Entries 93
Mean 0.1252
Std Dev 2.6

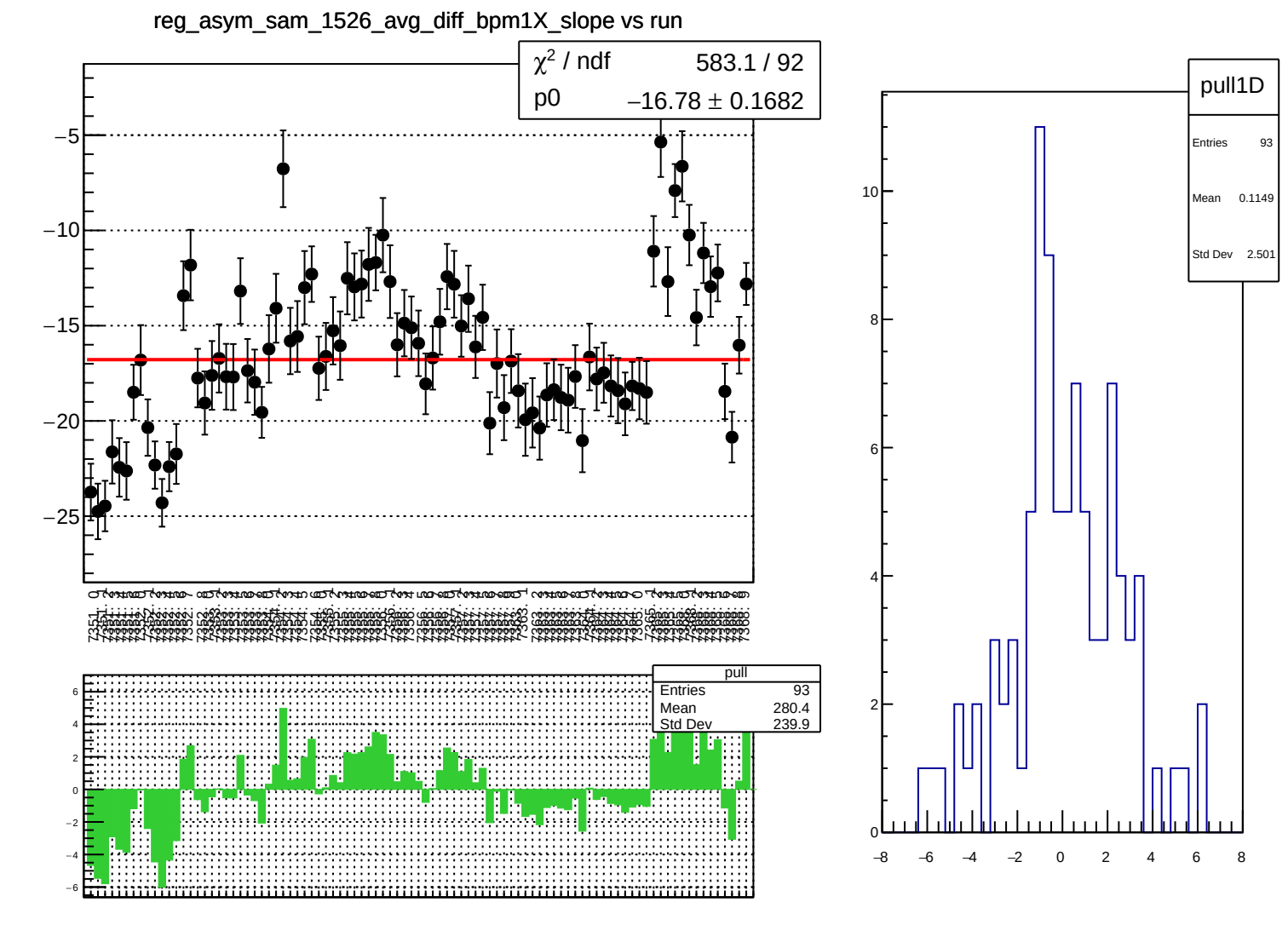

reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ² / ndf 271.7 / 92
p0 22.76 ± 0.5304
pull
Entries 93
Mean −89.63
Std Dev 112.6
pull1D
Entries 93
Mean 0.09132
Std Dev 1.707

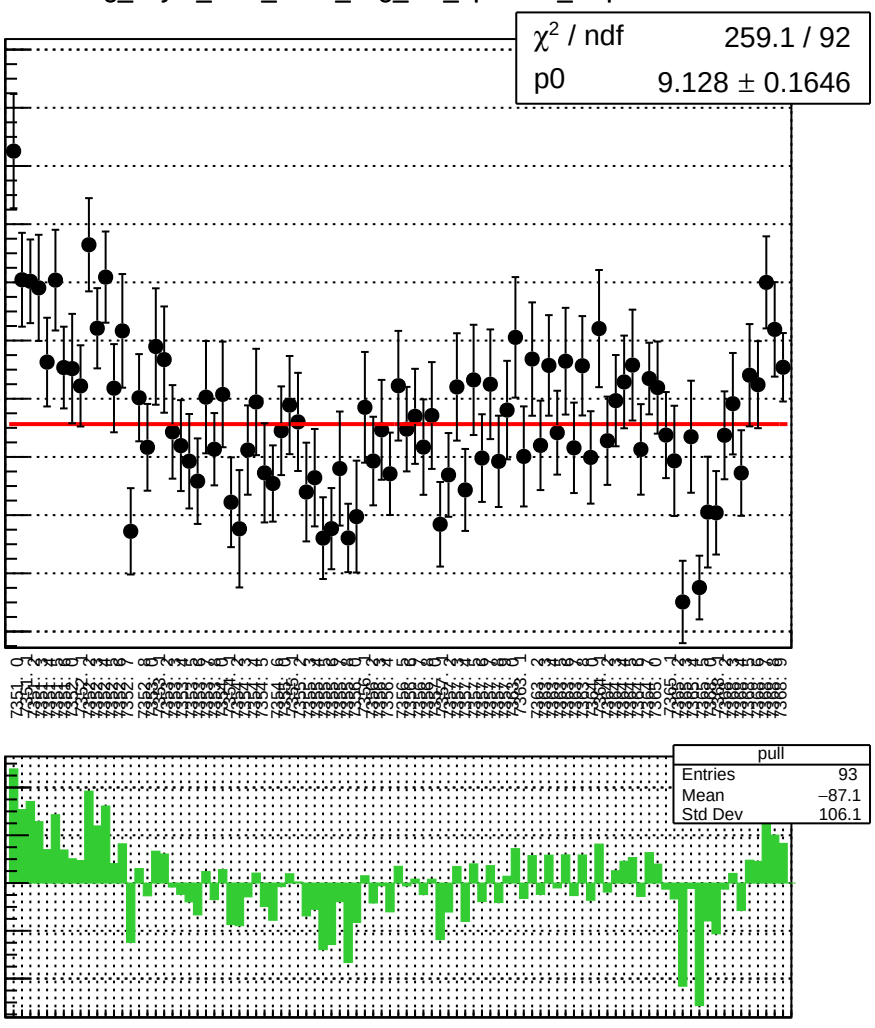

reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ² / ndf 417.6 / 92
p0 −21.97 ± 0.5394
pull
Entries 93
Mean 202.2
Std Dev 163
pull1D
Entries 93
Mean −0.1381
Std Dev 2.115

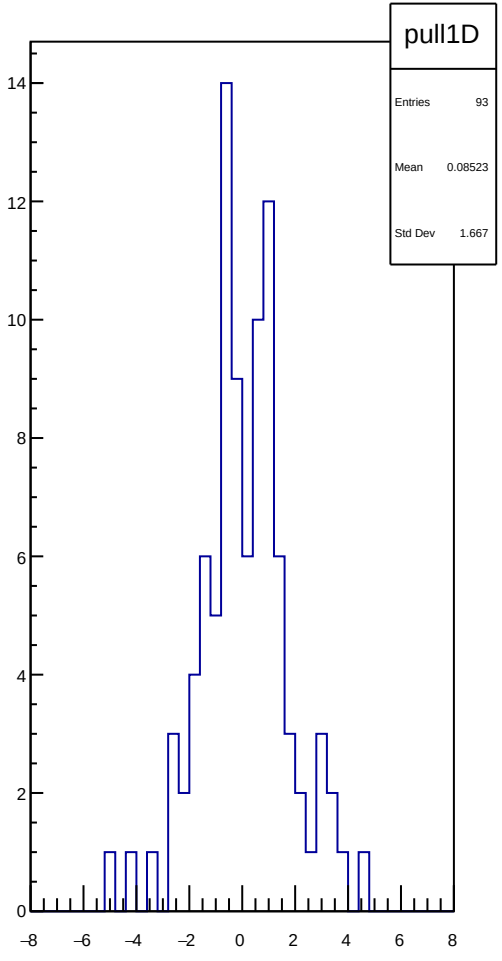

reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ² / ndf 204.6 / 92
p0 34.47 ± 0.5644
pull
Entries 93
Mean −293.4
Std Dev 323.3

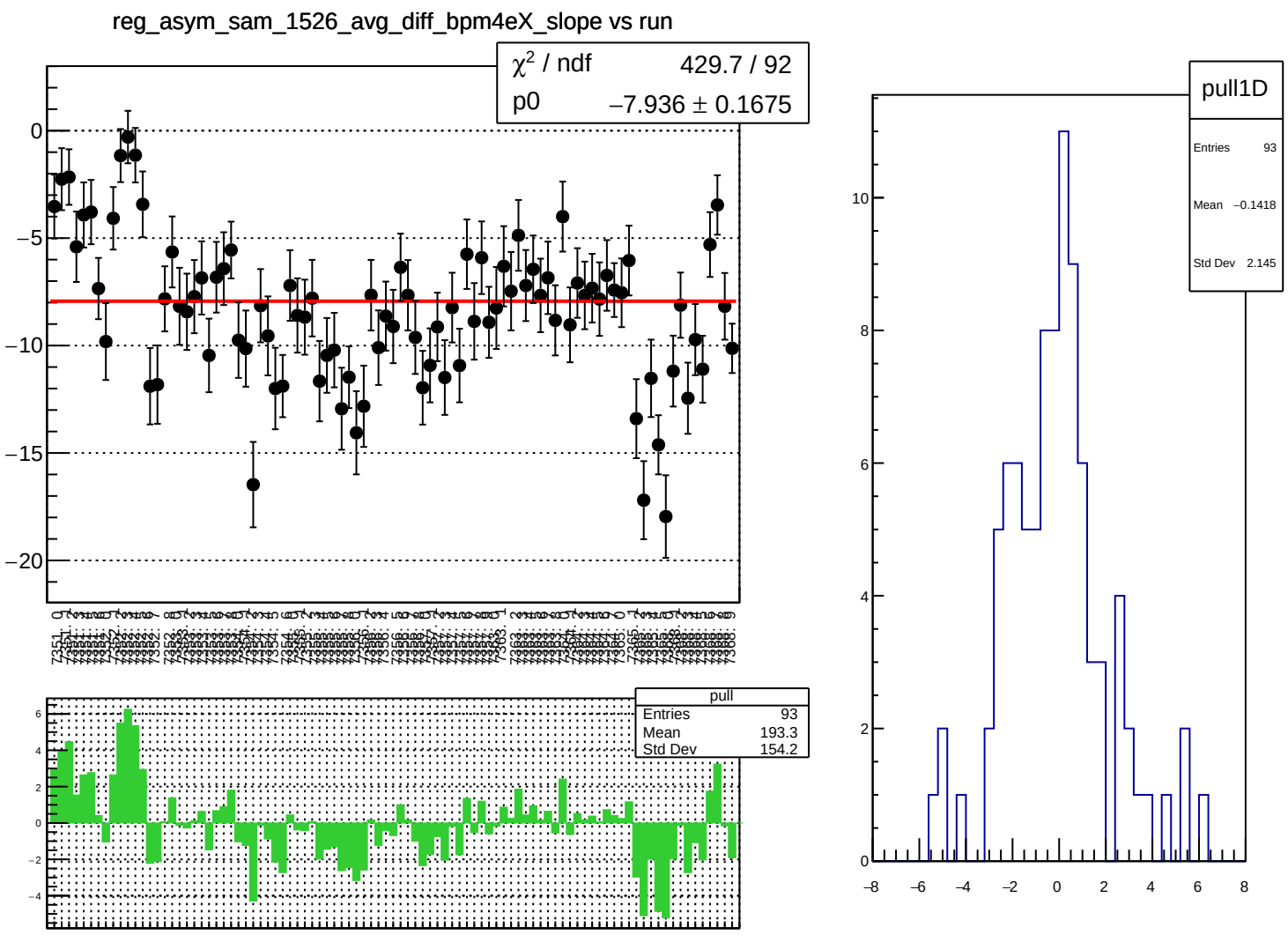

pull1D
Entries 93
Mean −0.04166
Std Dev 1.483

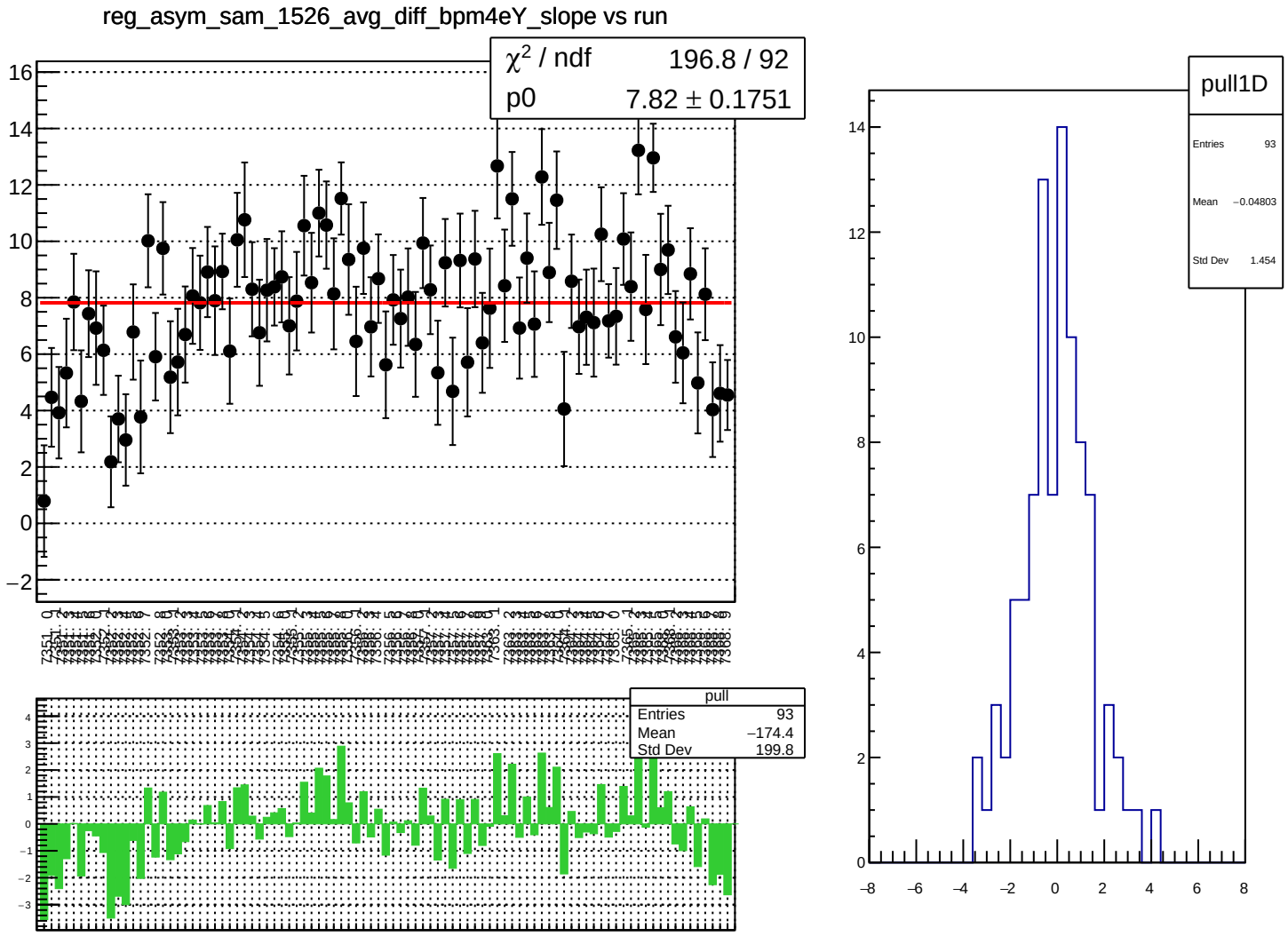

reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ² / ndf 61.1 / 92
p0 −0.5052 ± 0.02653
pull
Entries 93
Mean −660.1
Std Dev 693.4
pull1D
Entries 93
Mean −0.01407
Std Dev 0.8104

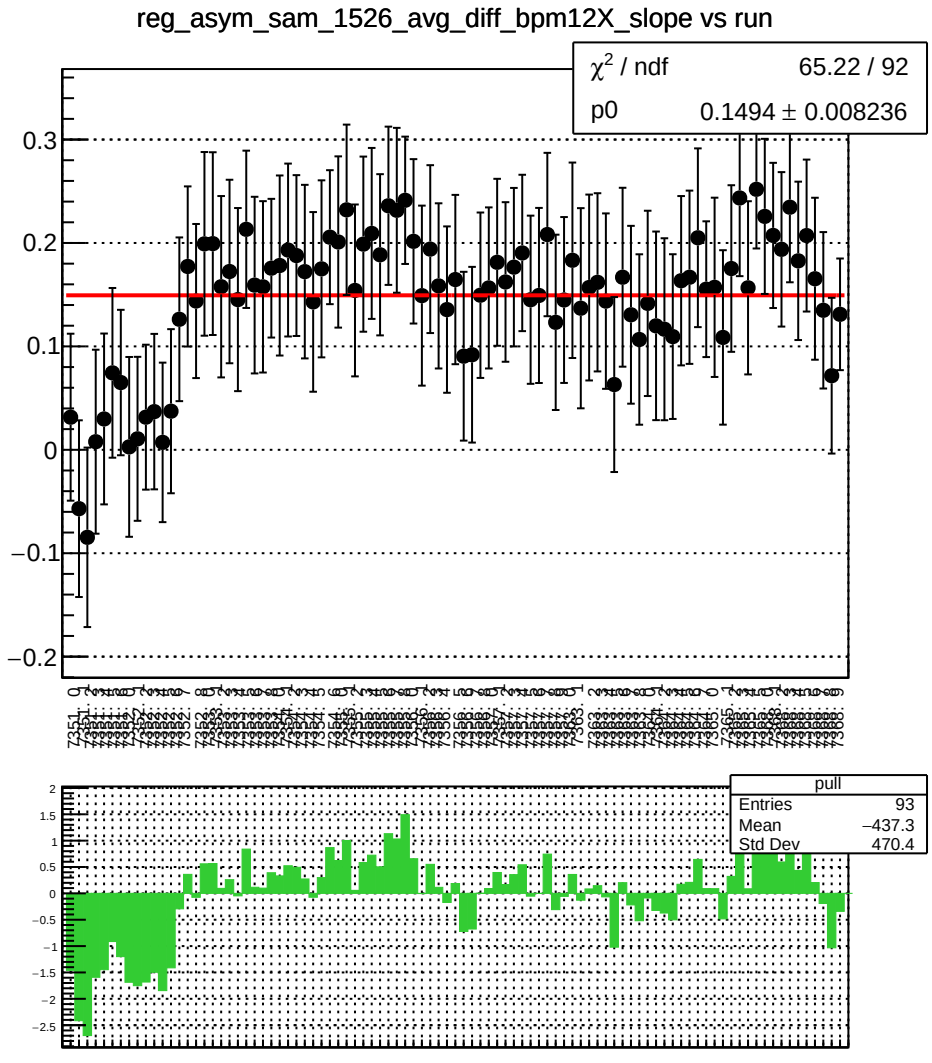

reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ² / ndf 583.1 / 92
p0 −16.78 ± 0.1682
pull
Entries 93
Mean 280.4
Std Dev 239.9
pull1D
Entries 93
Mean 0.1149
Std Dev 2.501

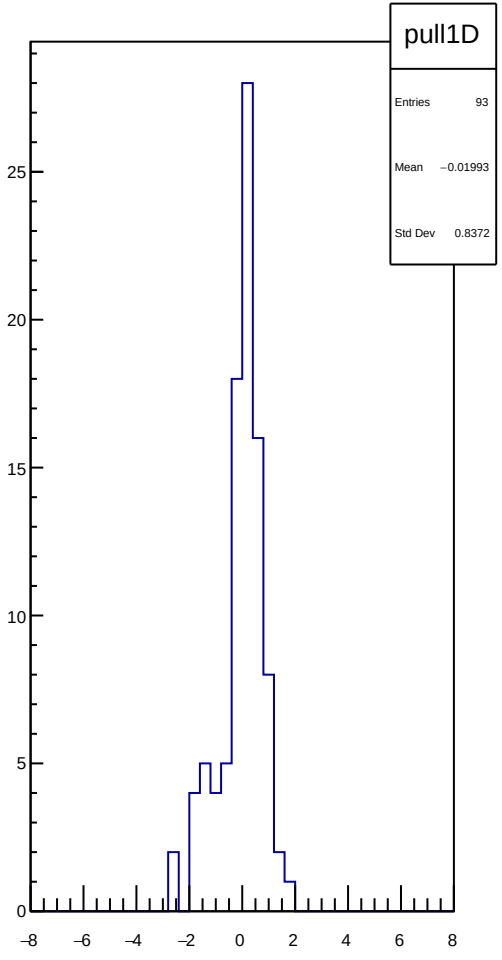

reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ² / ndf 259.1 / 92
p0 9.128 ± 0.1646
pull
Entries 93
Mean −87.1
Std Dev 106.1

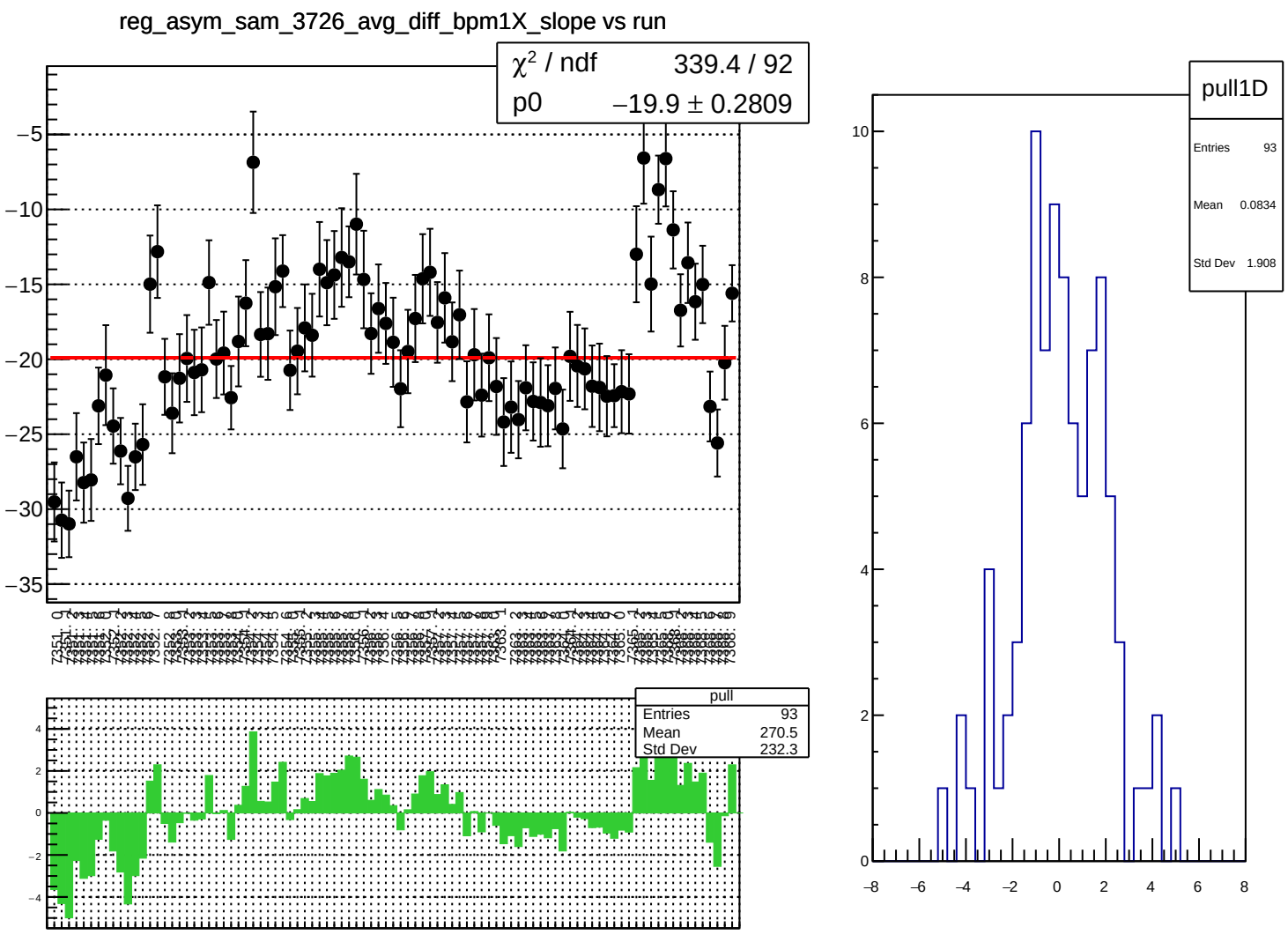

pull1D
Entries 93
Mean 0.08523
Std Dev 1.667

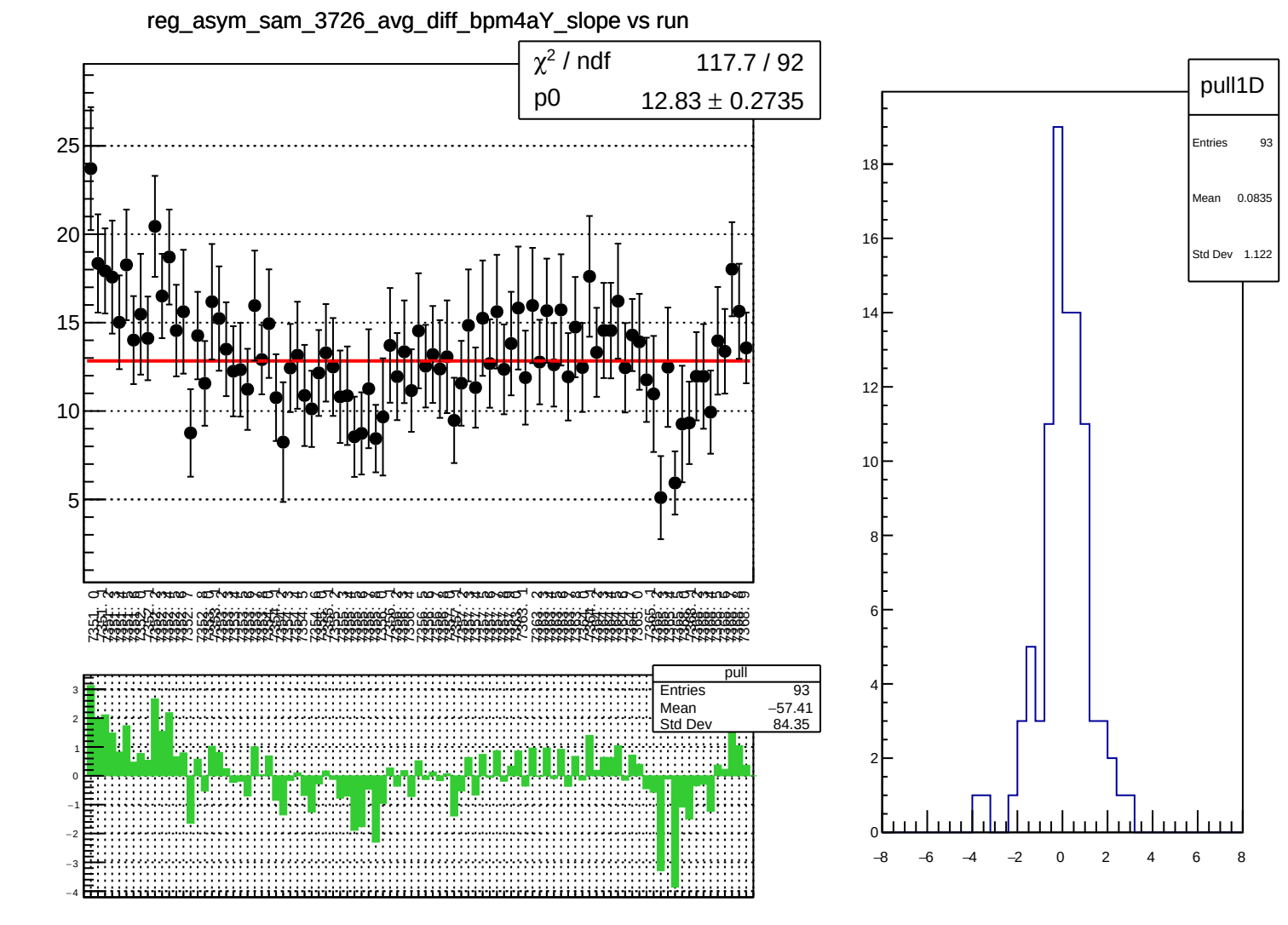

reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ² / ndf 429.7 / 92
p0 −7.936 ± 0.1675
pull
Entries 93
Mean 193.3
Std Dev 154.2
pull1D
Entries 93
Mean −0.1418
Std Dev 2.145

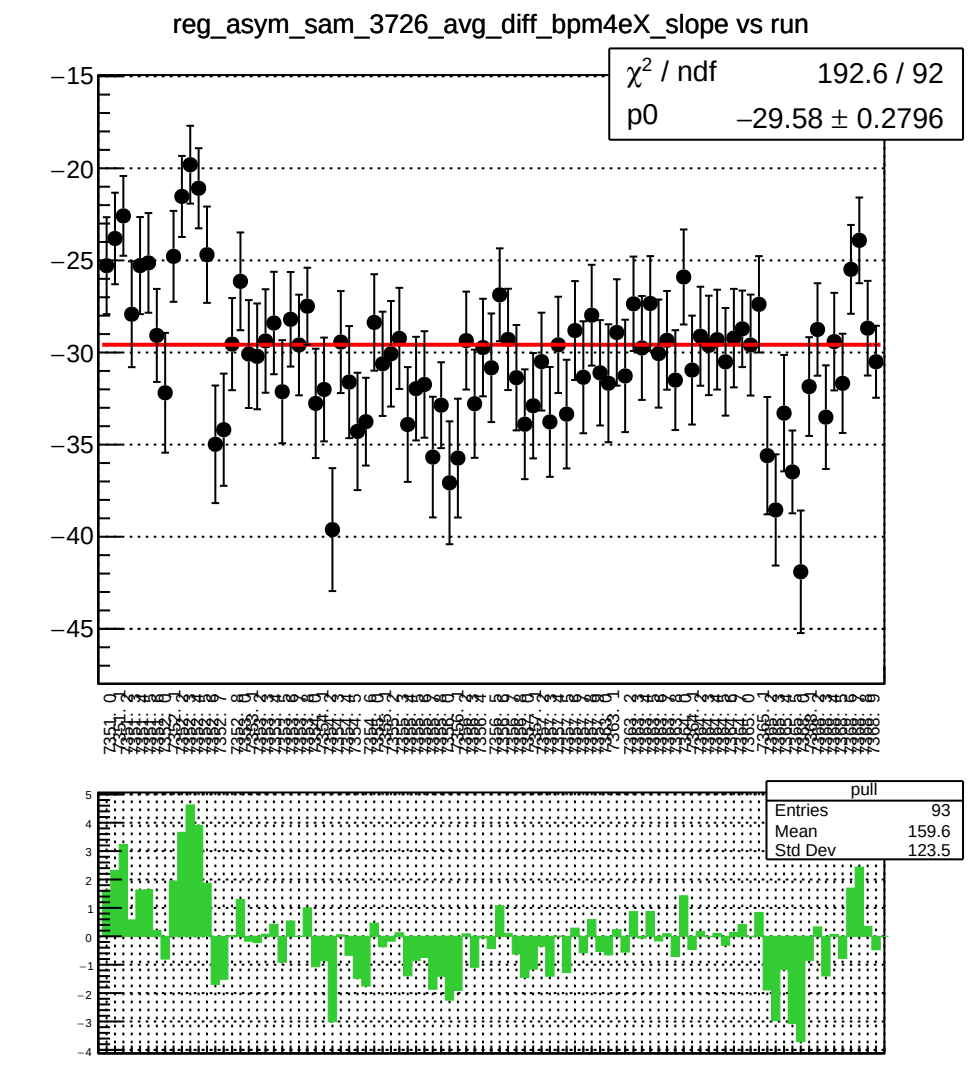

reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ² / ndf 196.8 / 92
p0 7.82 ± 0.1751
pull
Entries 93
Mean −174.4
Std Dev 199.8
pull1D
Entries 93
Mean −0.04803
Std Dev 1.454

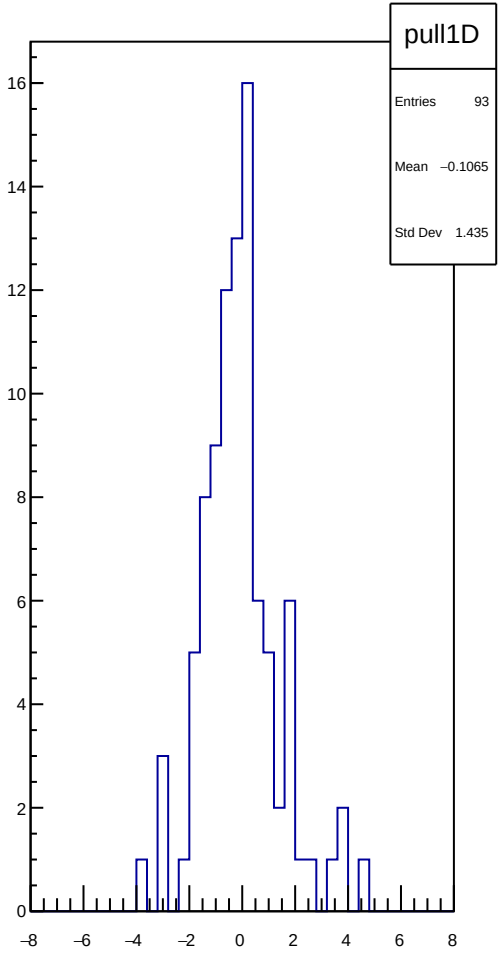

reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ² / ndf 65.22 / 92
p0 0.1494 ± 0.008236
pull
Entries 93
Mean −437.3
Std Dev 470.4

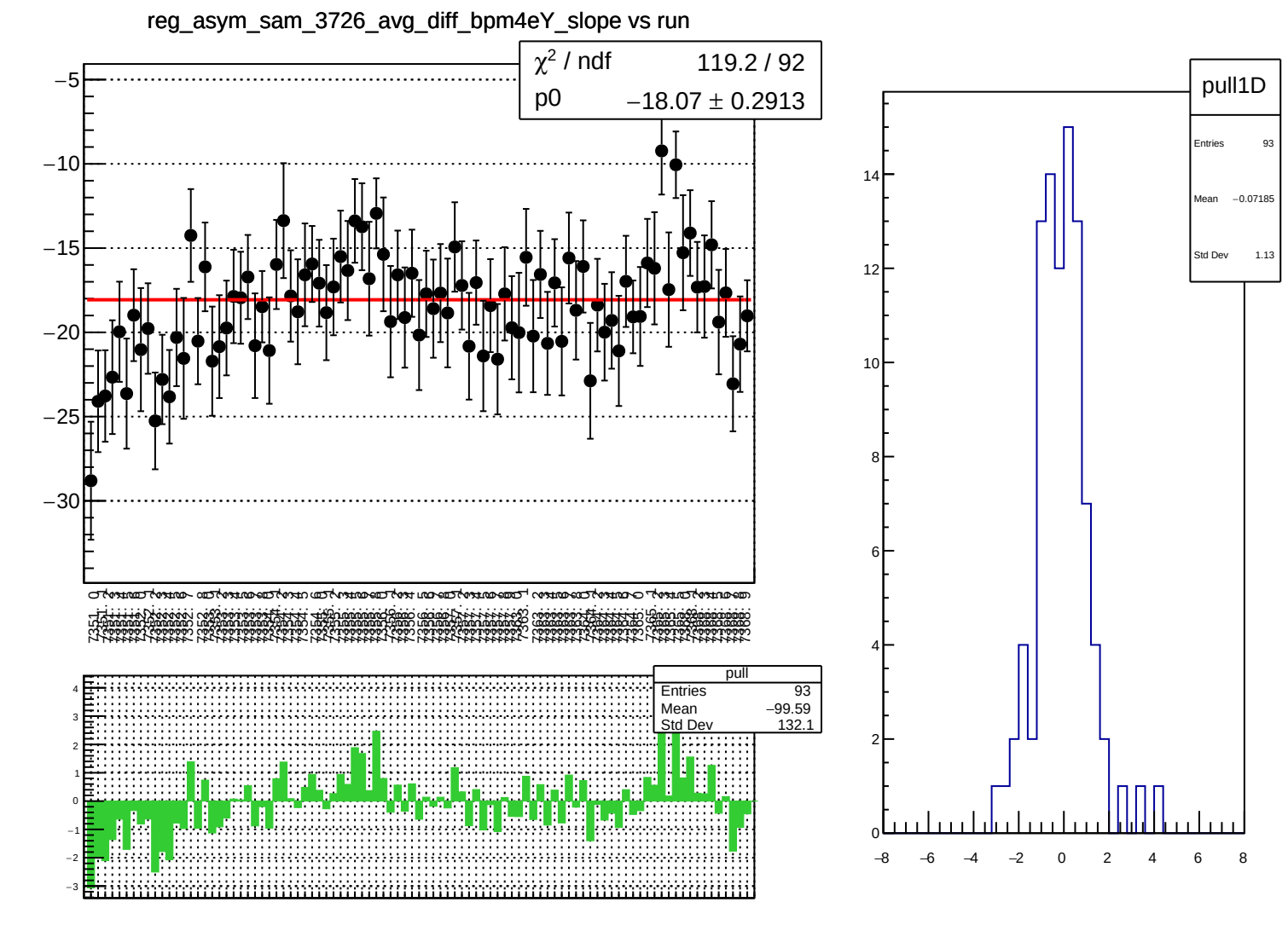

pull1D
Entries 93
Mean −0.01993
Std Dev 0.8372

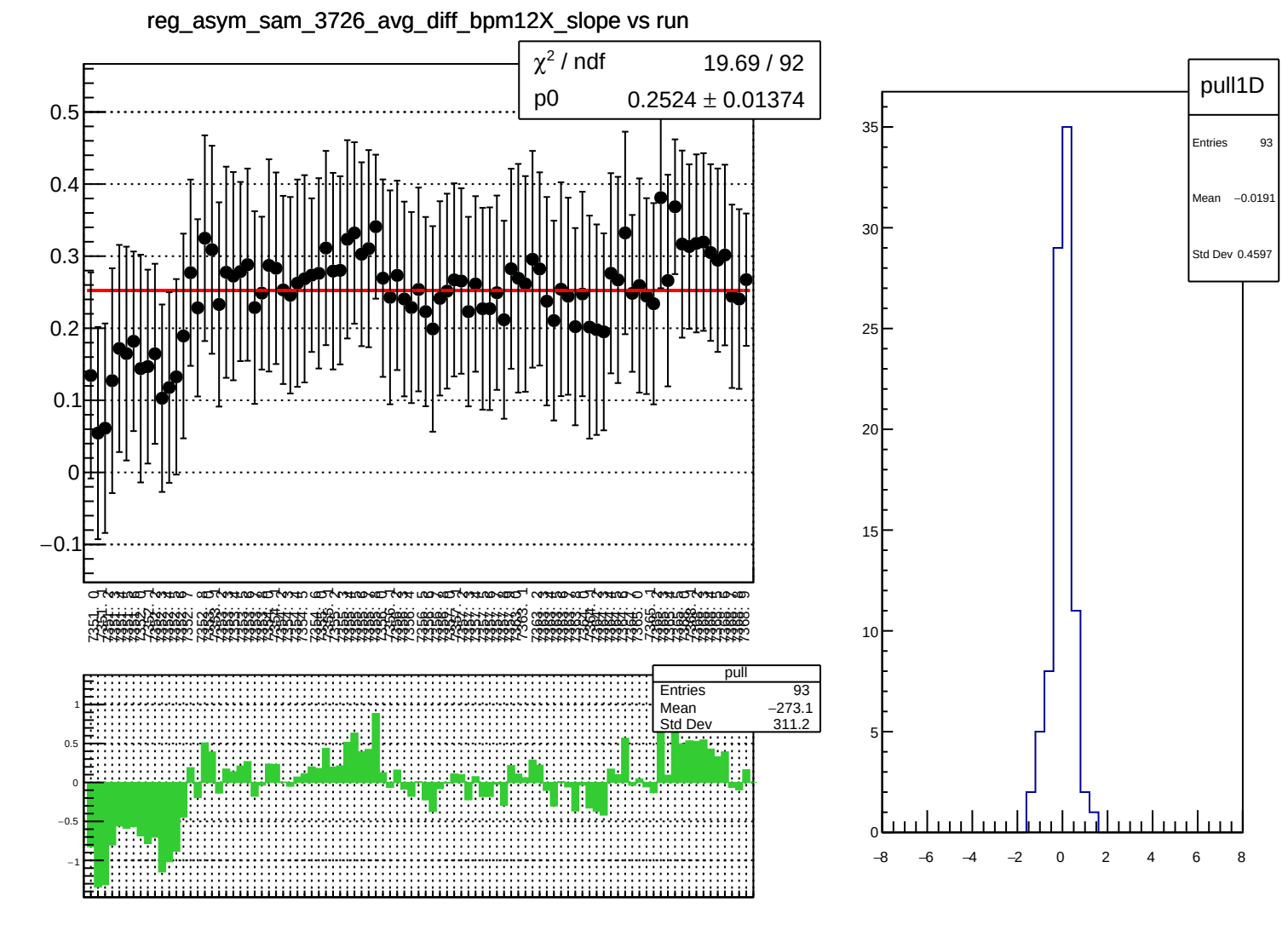

reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ² / ndf 339.4 / 92
p0 −19.9 ± 0.2809
pull
Entries 93
Mean 270.5
Std Dev 232.3
pull1D
Entries 93
Mean 0.0834
Std Dev 1.908

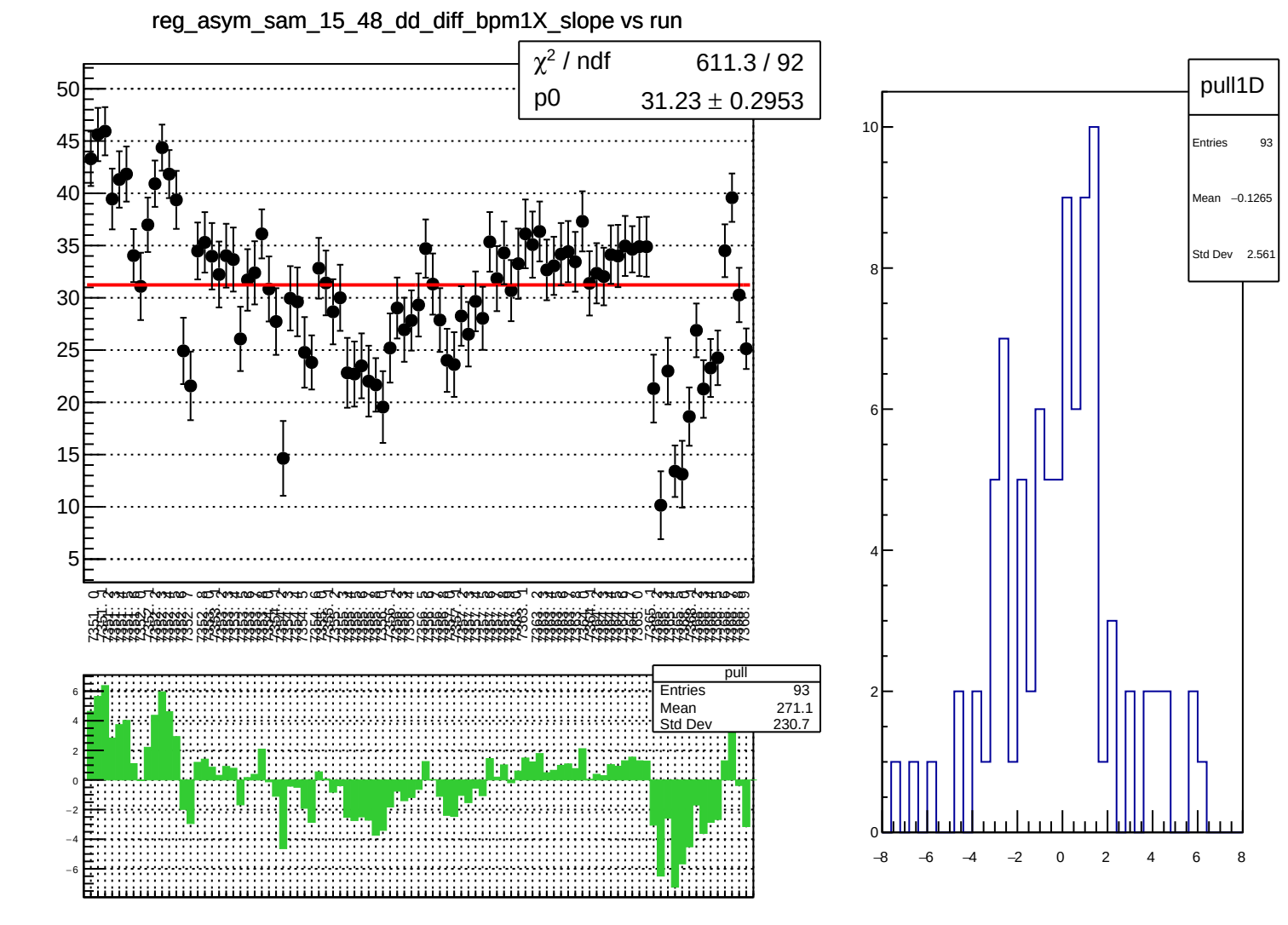

reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ² / ndf 117.7 / 92
p0 12.83 ± 0.2735
pull
Entries 93
Mean −57.41
Std Dev 84.35
pull1D
Entries 93
Mean 0.0835
Std Dev 1.122

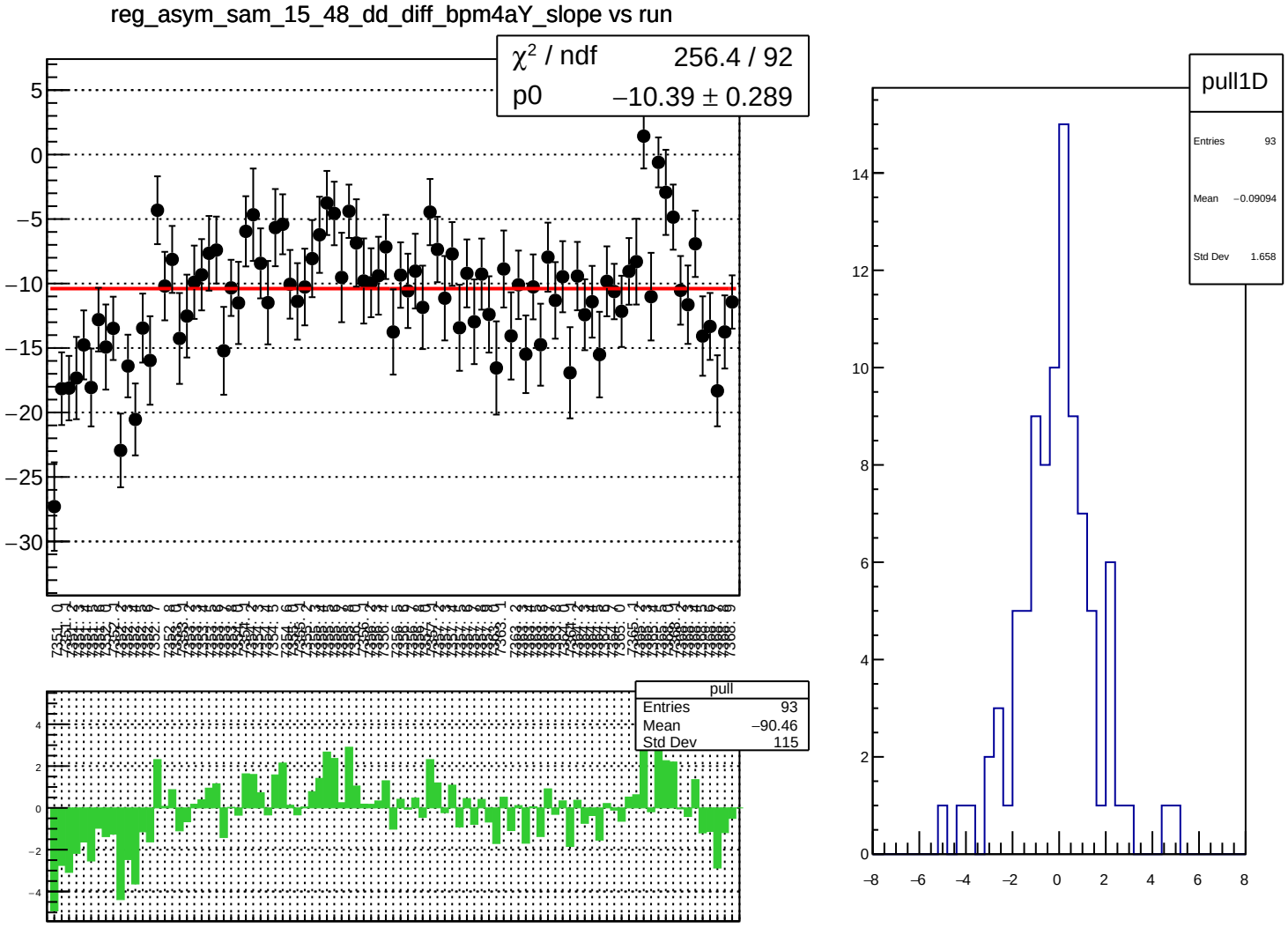

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ² / ndf 192.6 / 92
p0 −29.58 ± 0.2796
pull
Entries 93
Mean 159.6
Std Dev 123.5

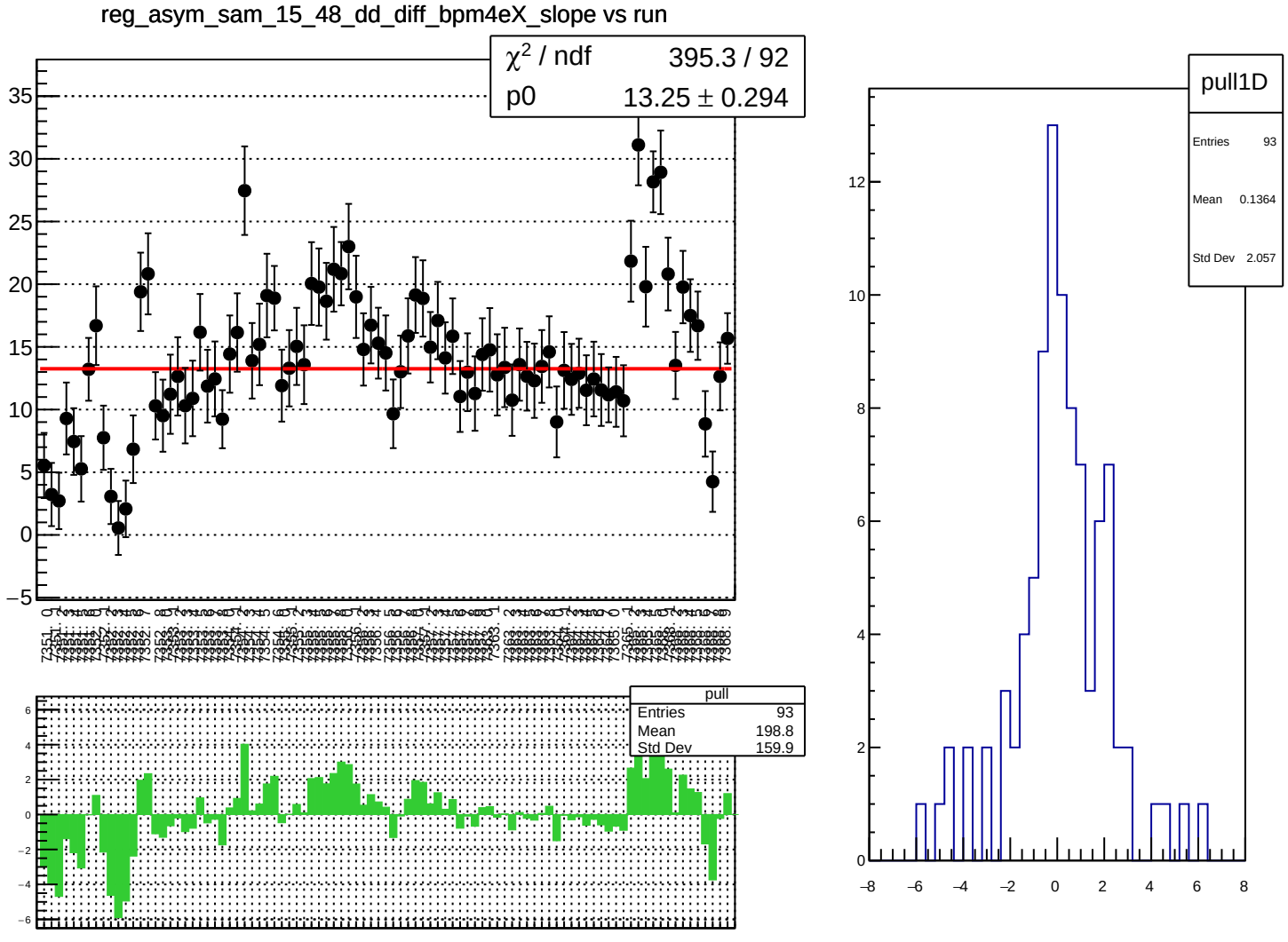

pull1D
Entries 93
Mean −0.1065
Std Dev 1.435

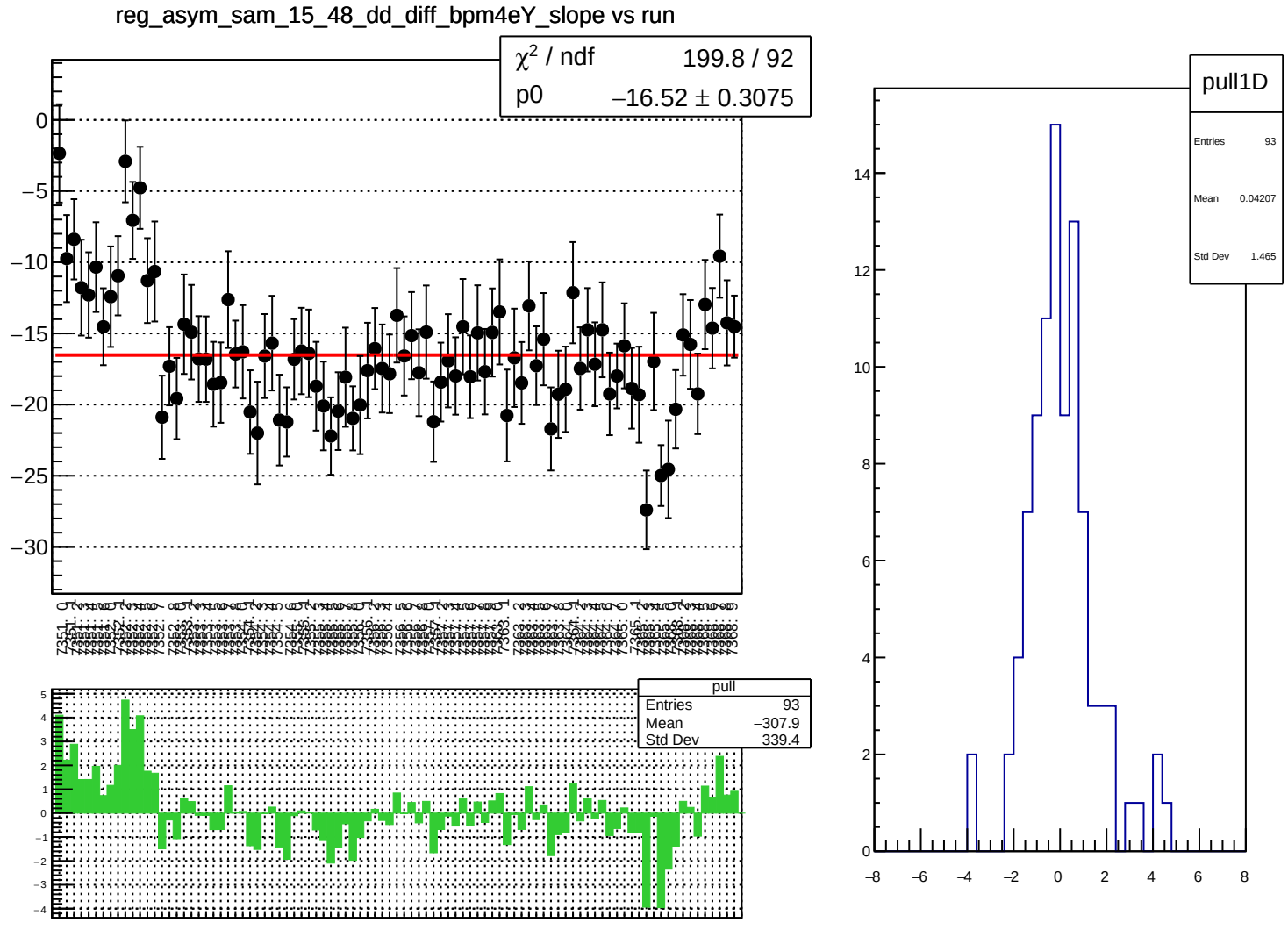

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run
χ² / ndf 119.2 / 92
p0 −18.07 ± 0.2913
pull
Entries 93
Mean −99.59
Std Dev 132.1
pull1D
Entries 93
Mean −0.07185
Std Dev 1.13

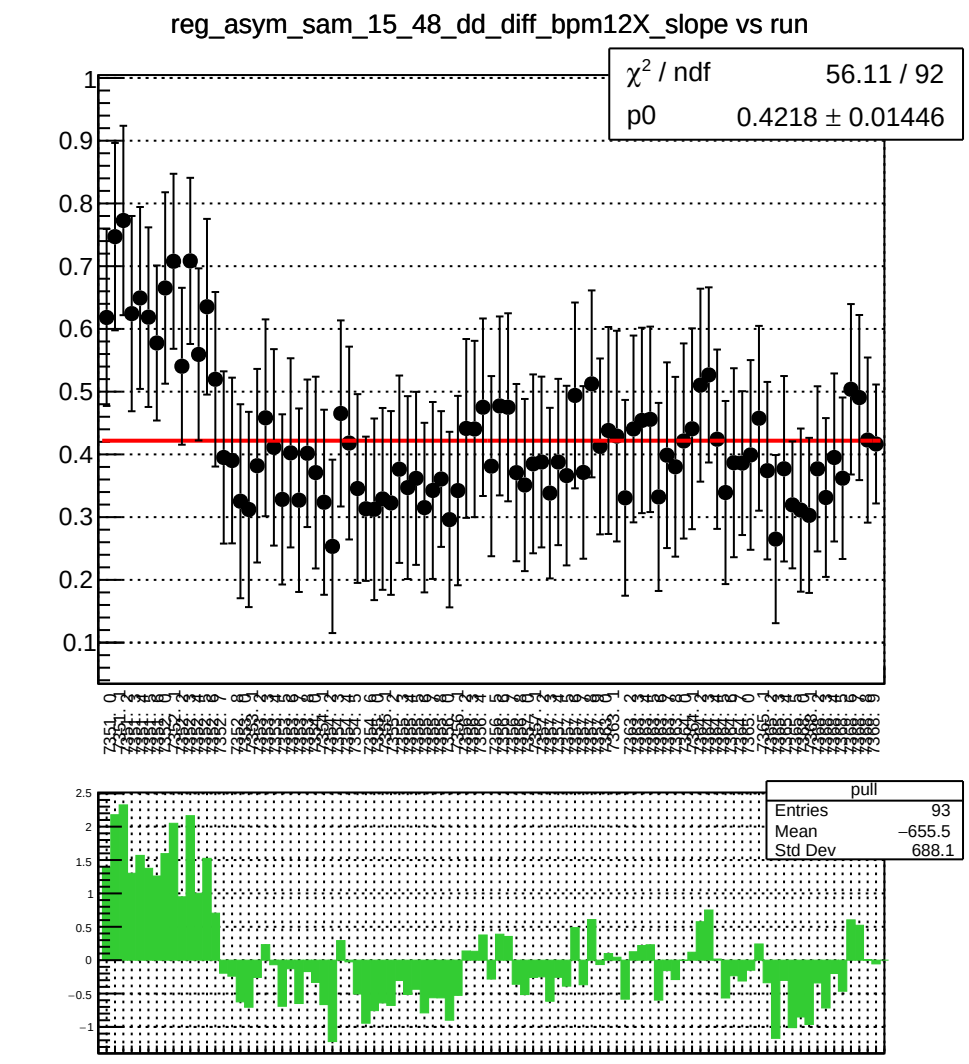

reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ² / ndf 19.69 / 92
p0 0.2524 ± 0.01374
pull
Entries 93
Mean −273.1
Std Dev 311.2
pull1D
Entries 93
Mean −0.0191
Std Dev 0.4597

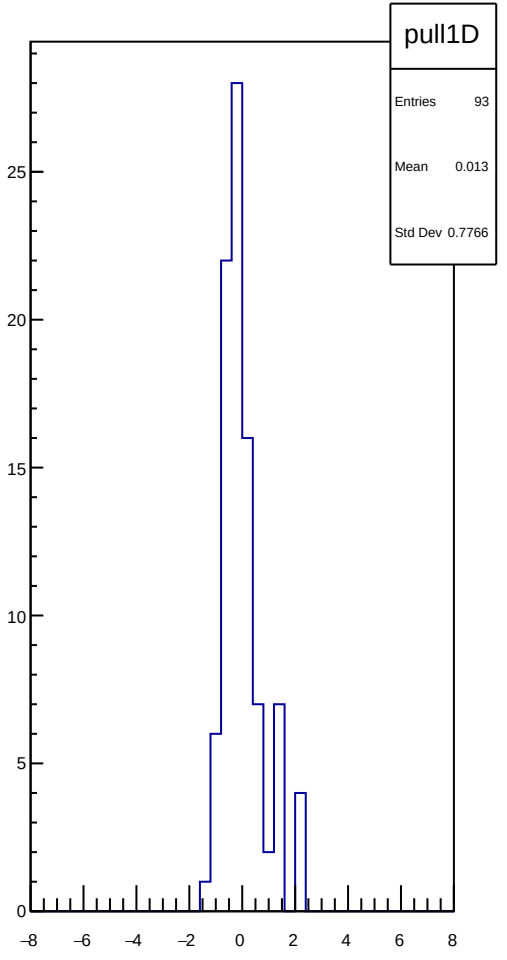

reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ² / ndf 611.3 / 92
p0 31.23 ± 0.2953
pull
Entries 93
Mean 271.1
Std Dev 230.7
pull1D
Entries 93
Mean −0.1265
Std Dev 2.561

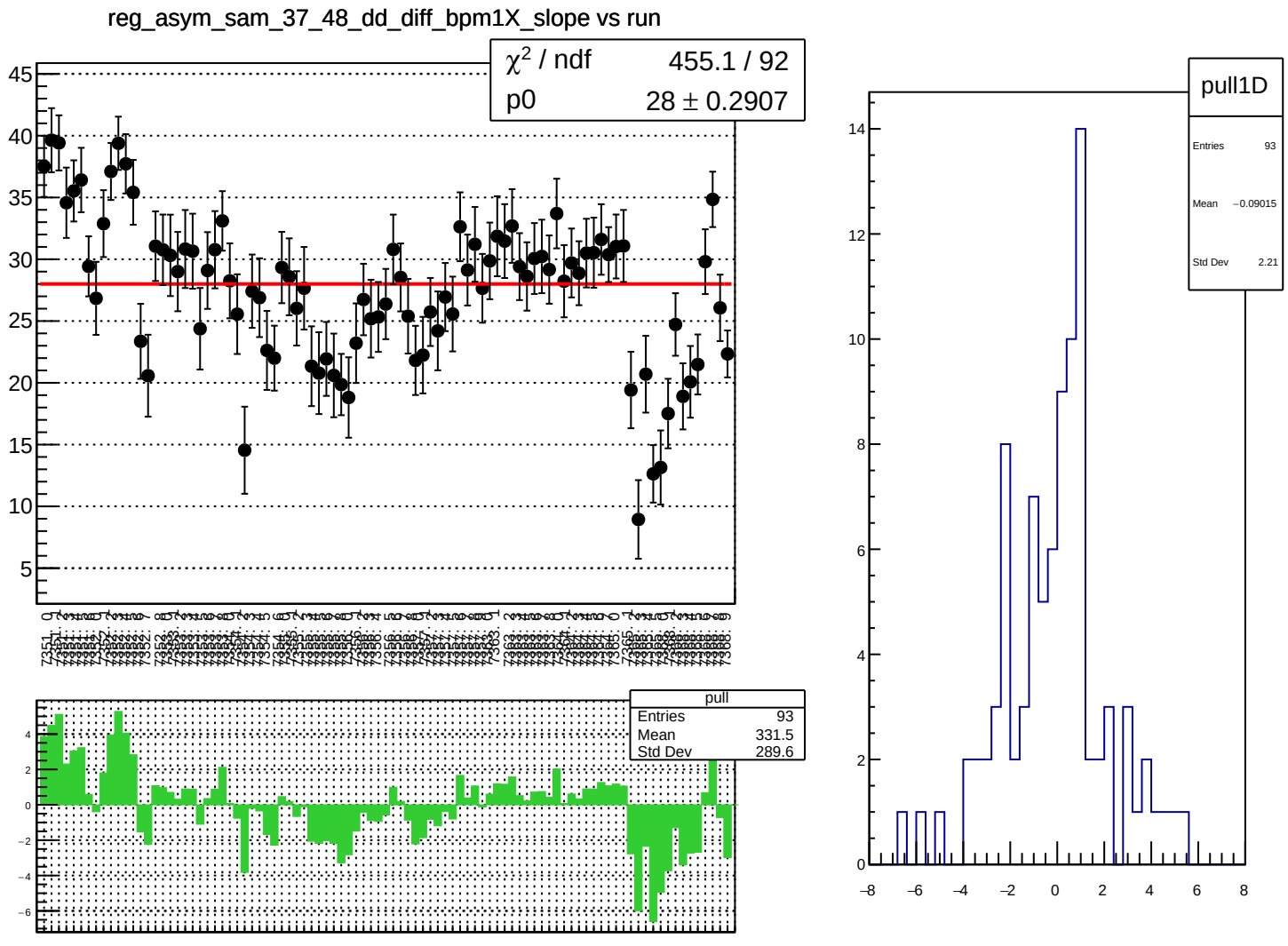

reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 256.4 / 92
p0 −10.39 ± 0.289
pull
Entries 93
Mean −90.46
Std Dev 115
pull1D
Entries 93
Mean −0.09094
Std Dev 1.658

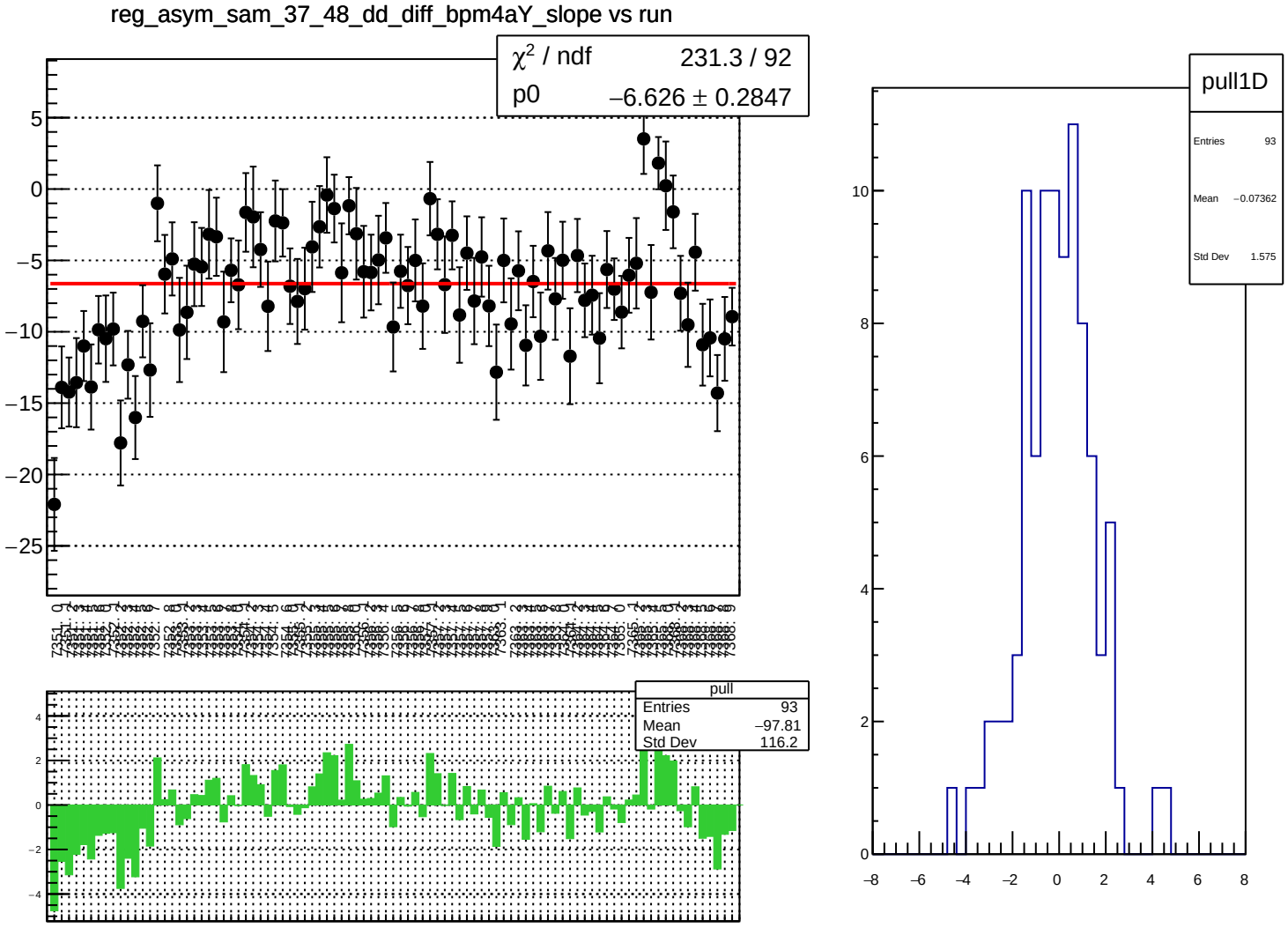

reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 395.3 / 92
p0 13.25 ± 0.294
pull
Entries 93
Mean 198.8
Std Dev 159.9
pull1D
Entries 93
Mean 0.1364
Std Dev 2.057

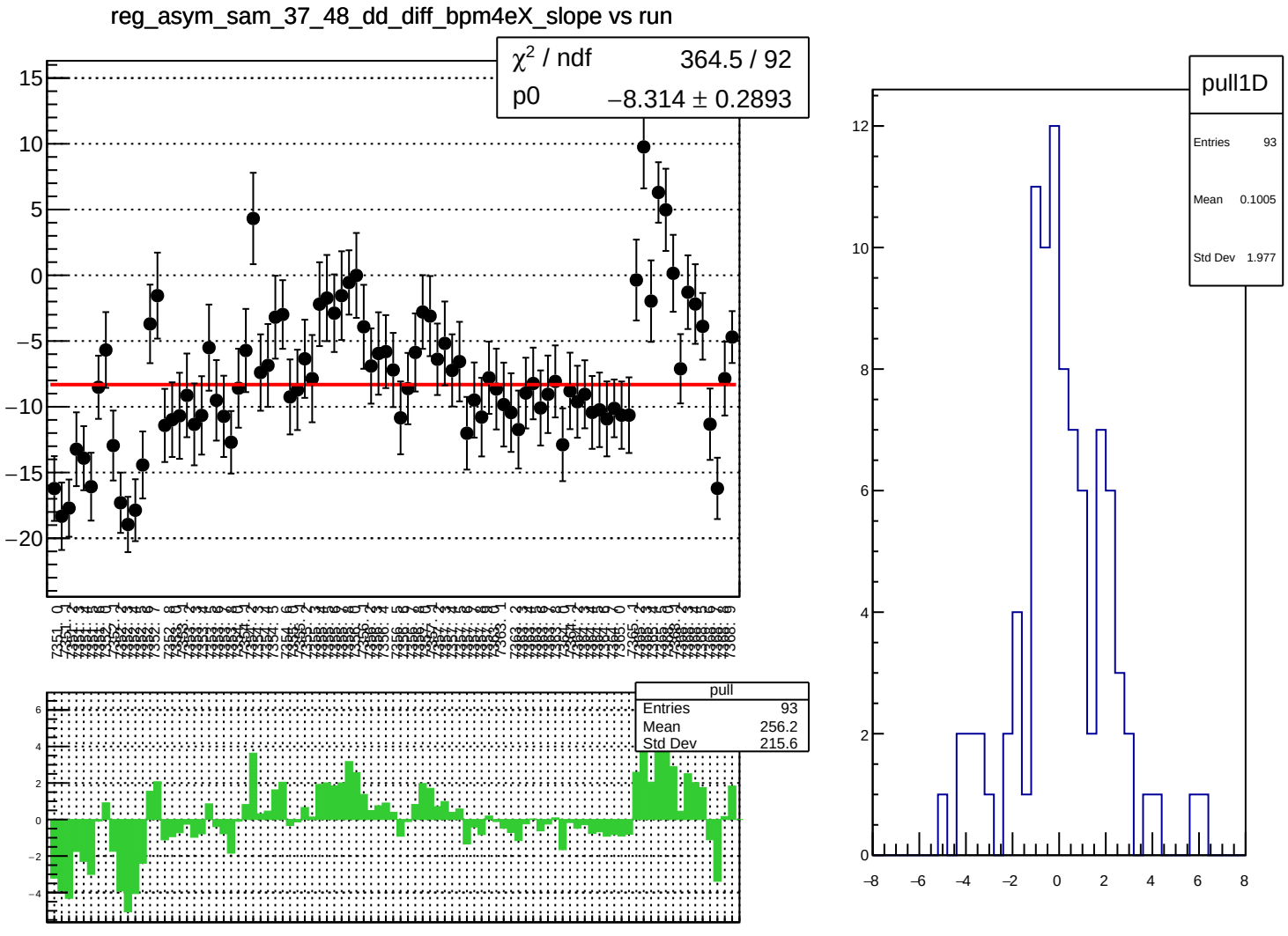

reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 199.8 / 92
p0 −16.52 ± 0.3075
pull
Entries 93
Mean −307.9
Std Dev 339.4
pull1D
Entries 93
Mean 0.04207
Std Dev 1.465

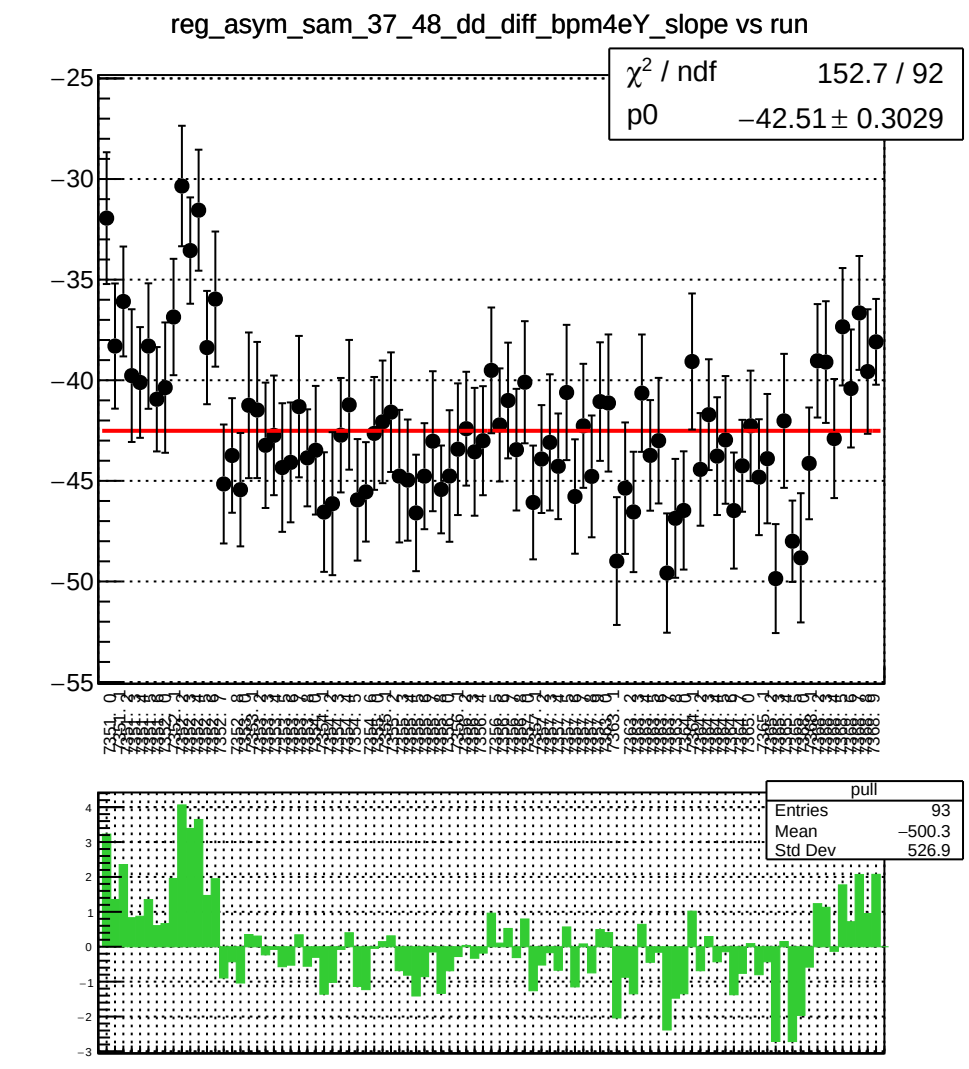

reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 56.11 / 92
p0 0.4218 ± 0.01446
pull
Entries 93
Mean −655.5
Std Dev 688.1

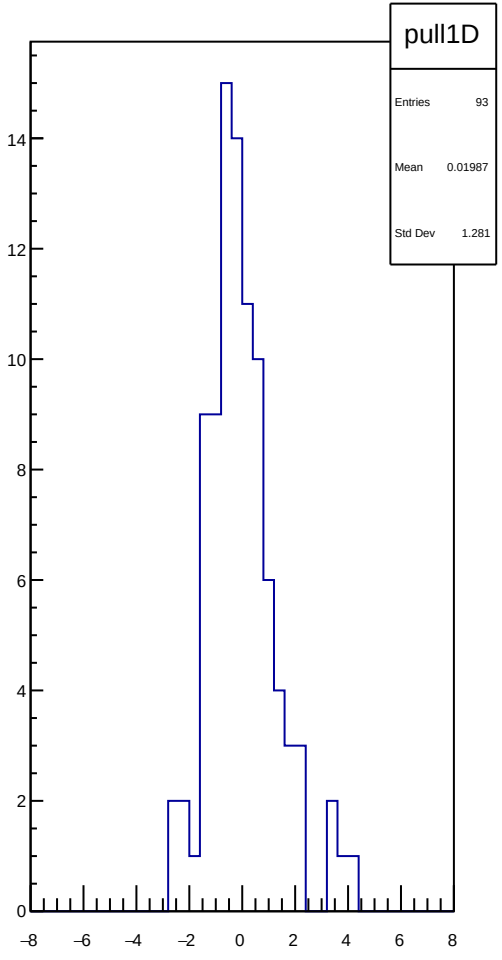

pull1D
Entries 93
Mean 0.013
Std Dev 0.7766

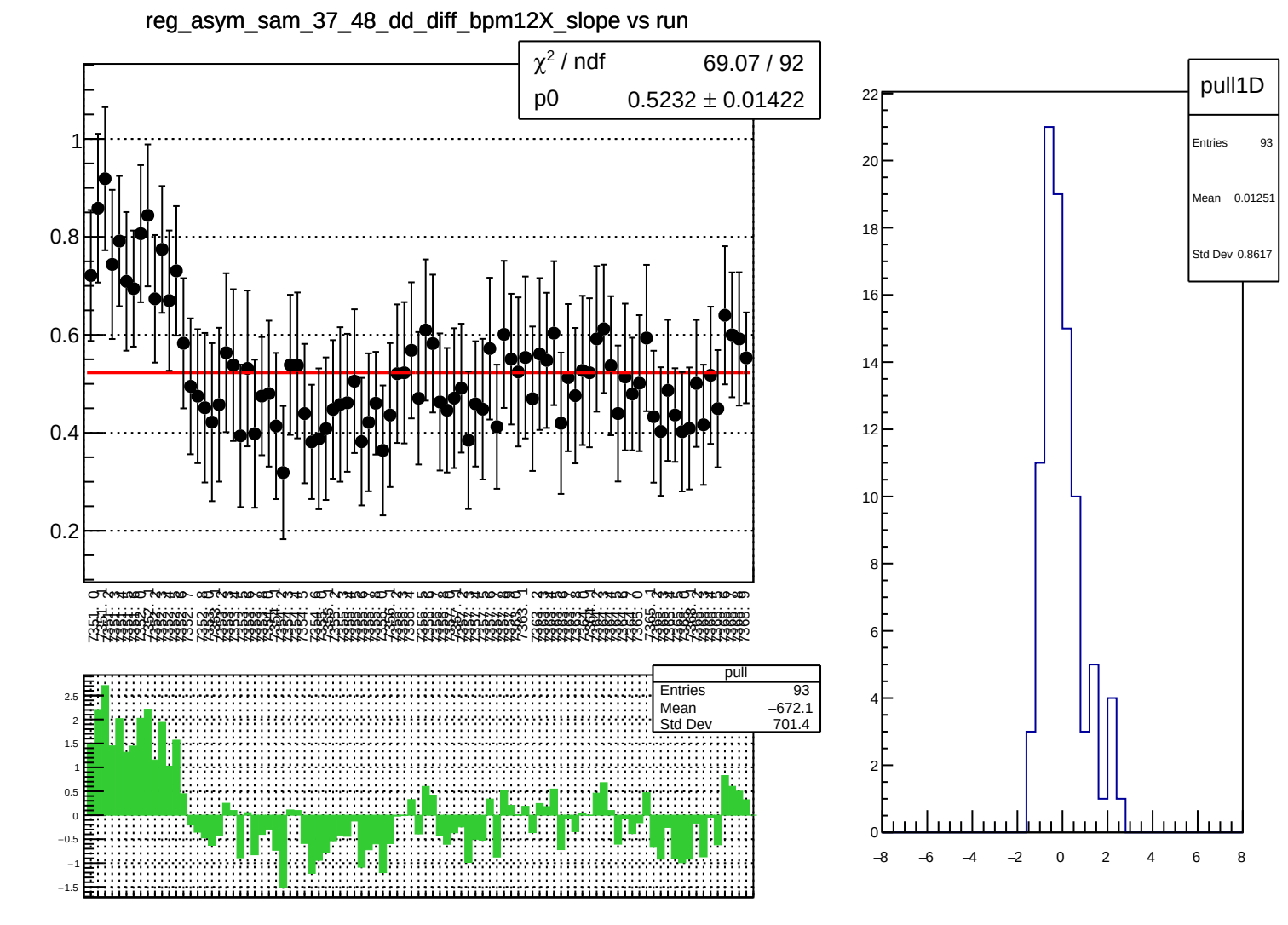

reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ² / ndf 455.1 / 92
p0 28 ± 0.2907
pull
Entries 93
Mean 331.5
Std Dev 289.6
pull1D
Entries 93
Mean −0.09015
Std Dev 2.21

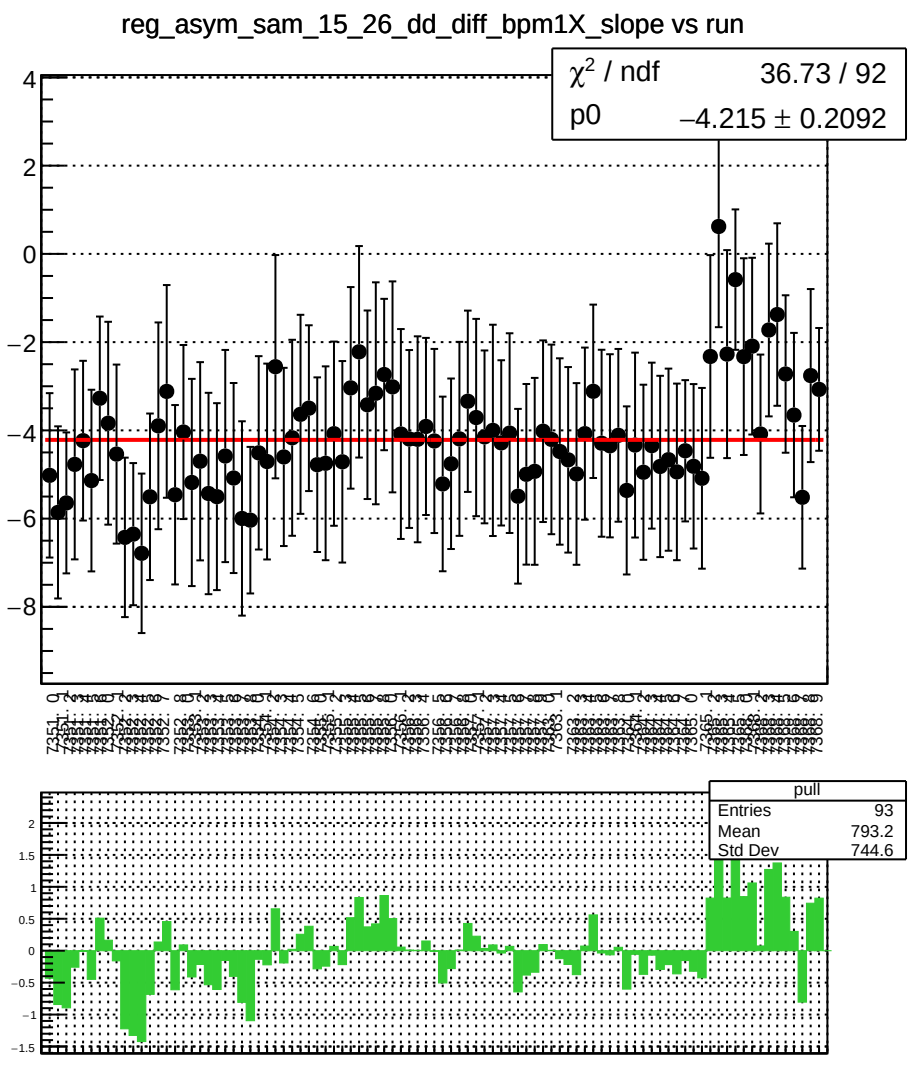

reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 231.3 / 92
p0 −6.626 ± 0.2847
pull
Entries 93
Mean −97.81
Std Dev 116.2
pull1D
Entries 93
Mean −0.07362
Std Dev 1.575

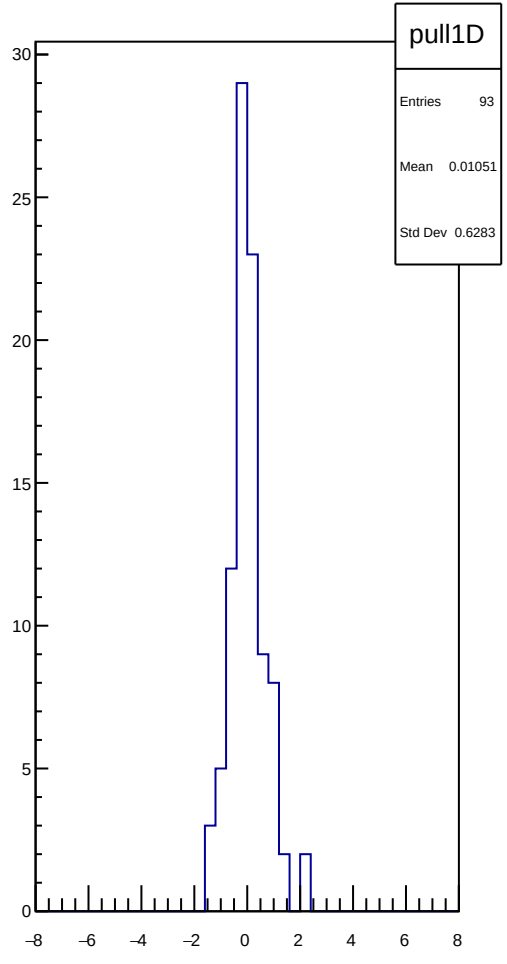

reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 364.5 / 92
p0 −8.314 ± 0.2893
pull
Entries 93
Mean 256.2
Std Dev 215.6
pull1D
Entries 93
Mean 0.1005
Std Dev 1.977

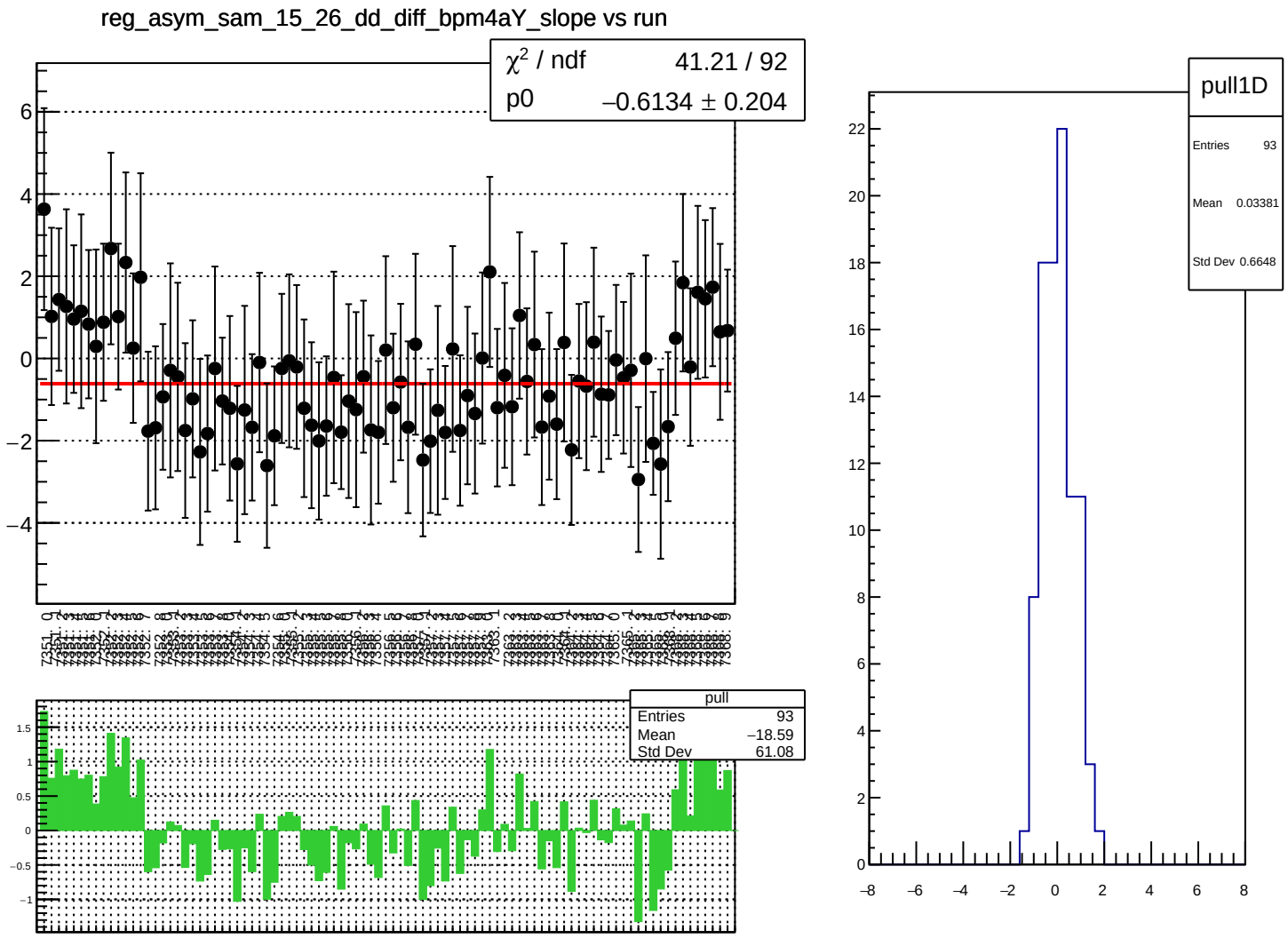

reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 152.7 / 92
p0 −42.51 ± 0.3029
pull
Entries 93
Mean −500.3
Std Dev 526.9

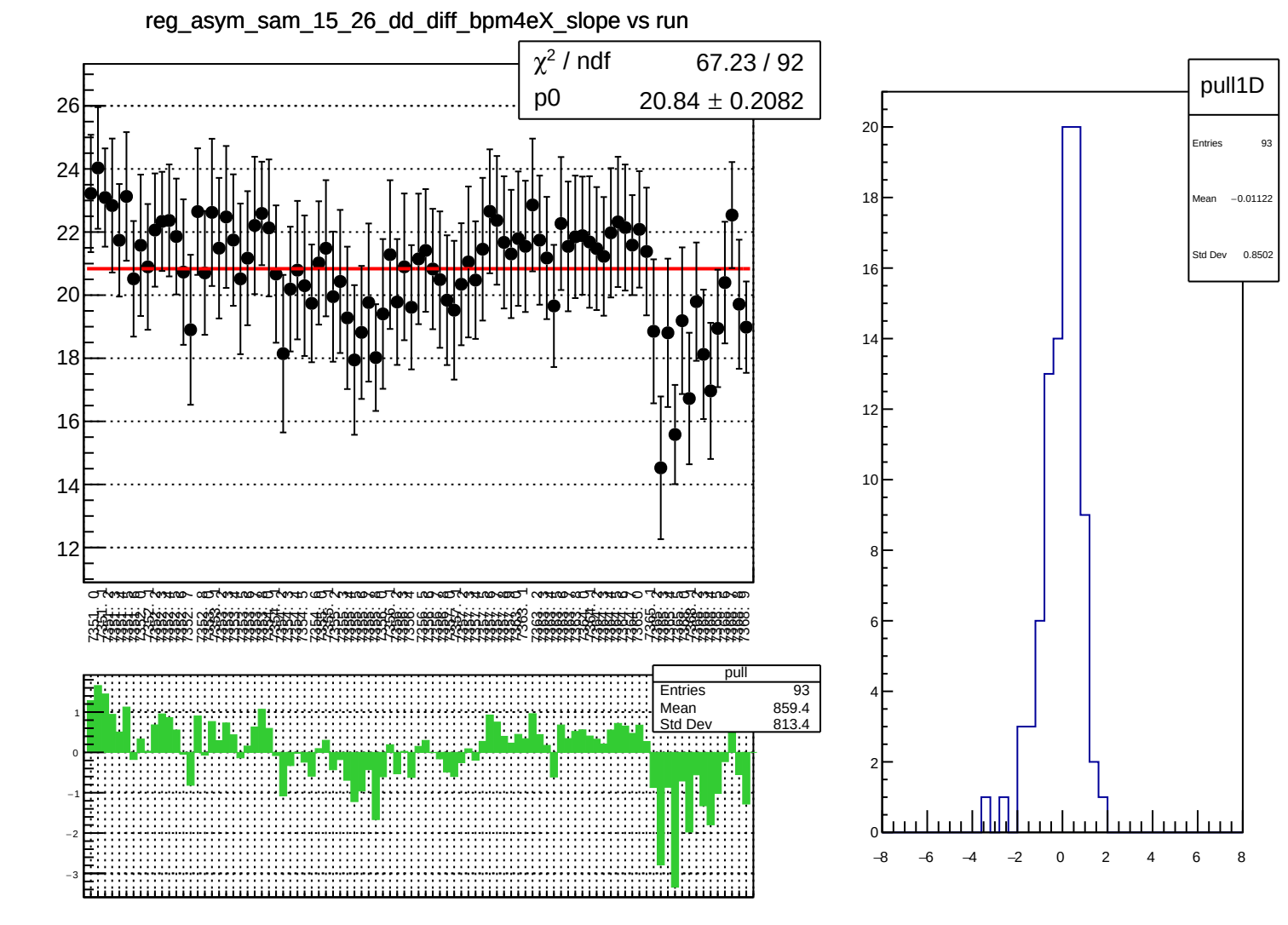

pull1D
Entries 93
Mean 0.01987
Std Dev 1.281

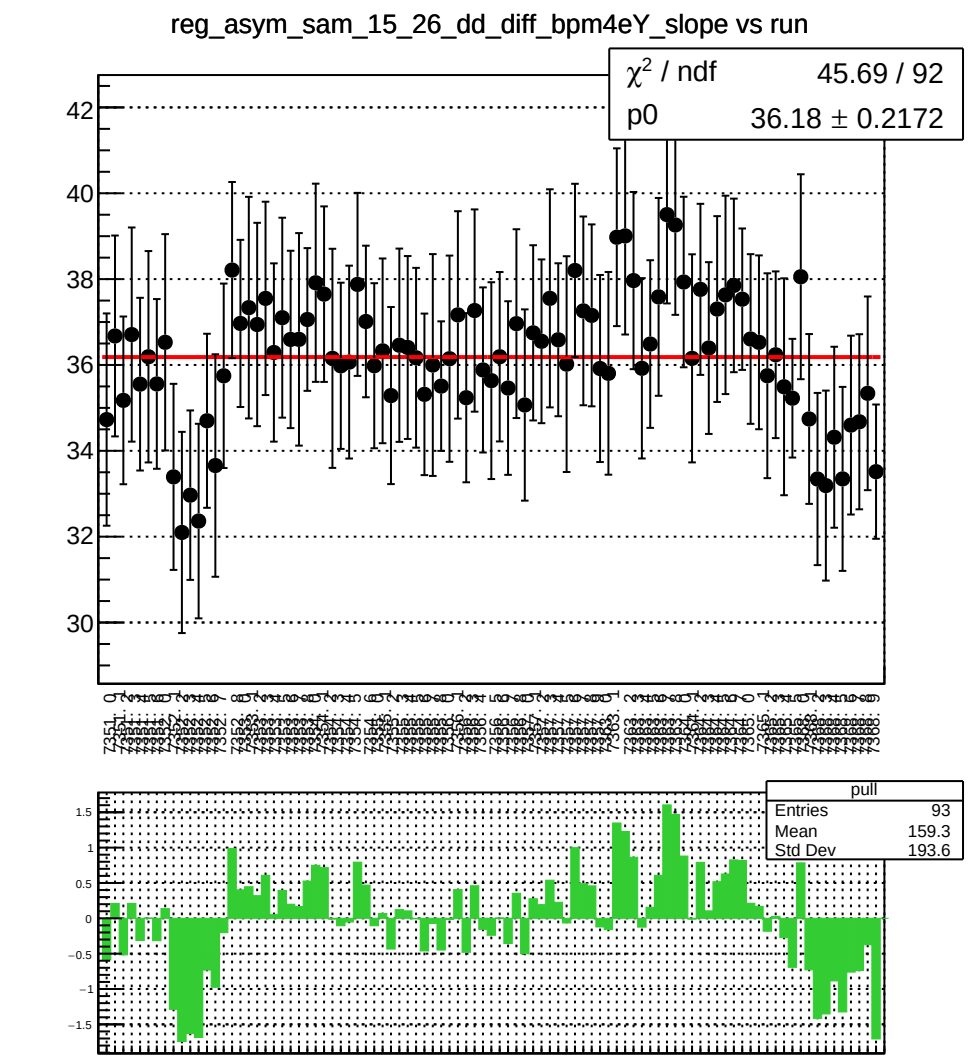

reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ² / ndf 69.07 / 92
p0 0.5232 ± 0.01422
pull
Entries 93
Mean −672.1
Std Dev 701.4
pull1D
Entries 93
Mean 0.01251
Std Dev 0.8617

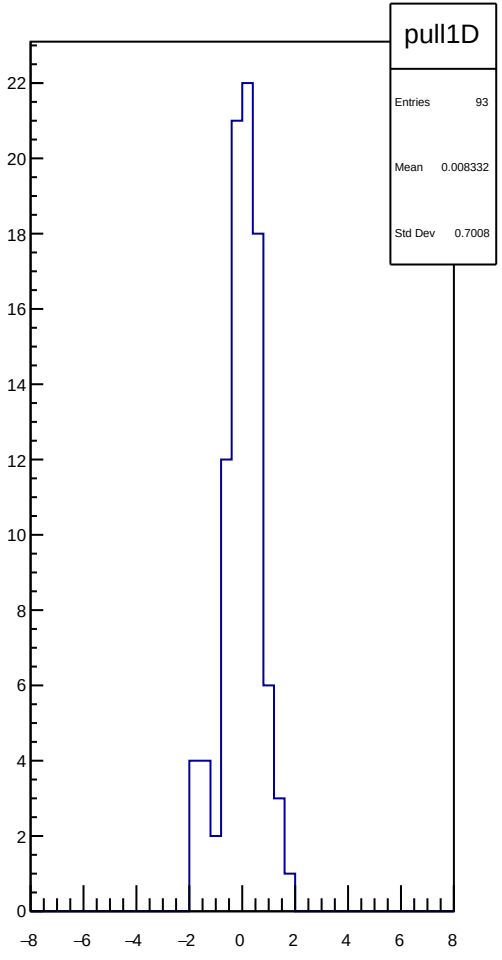

reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ² / ndf 36.73 / 92
p0 −4.215 ± 0.2092
pull
Entries 93
Mean 793.2
Std Dev 744.6

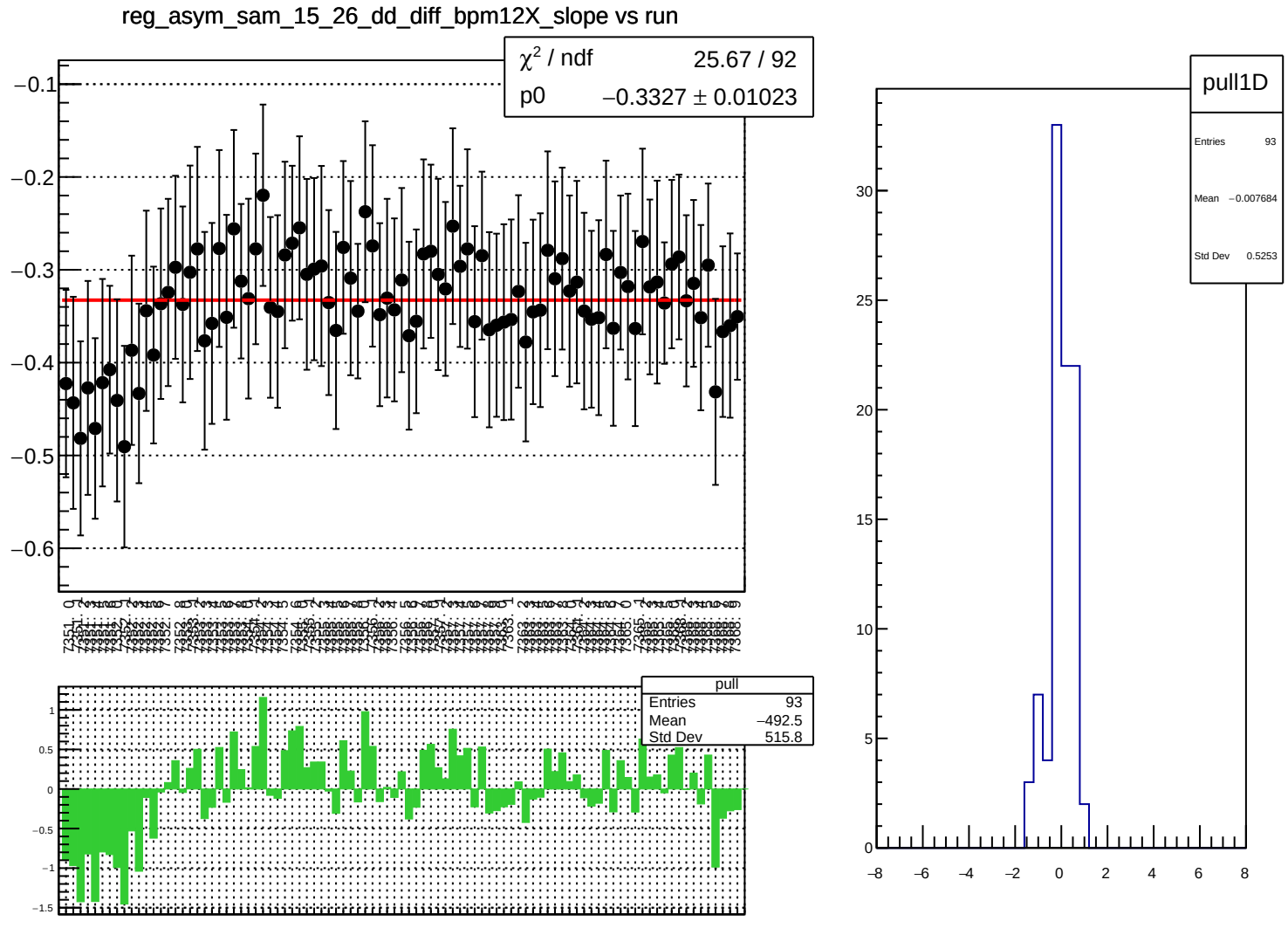

pull1D
Entries 93
Mean 0.01051
Std Dev 0.6283

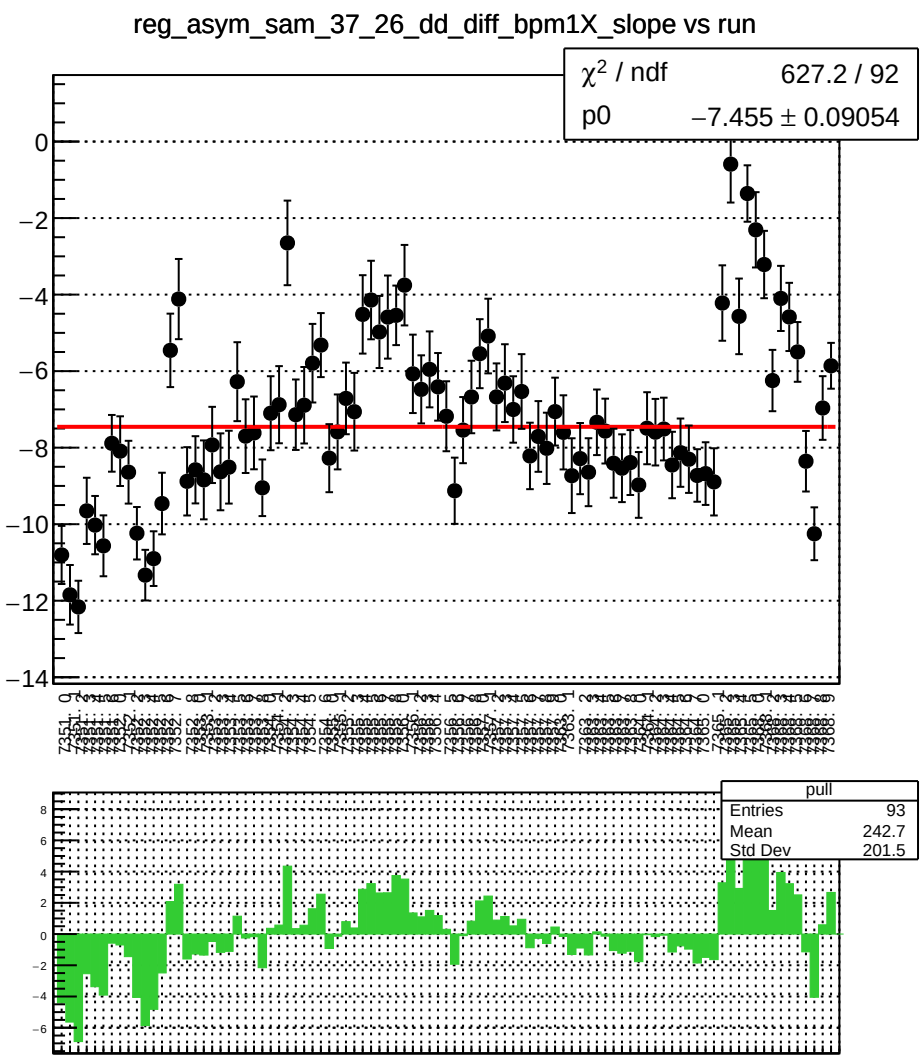

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 41.21 / 92
p0 −0.6134 ± 0.204
pull
Entries 93
Mean −18.59
Std Dev 61.08
pull1D
Entries 93
Mean 0.03381
Std Dev 0.6648

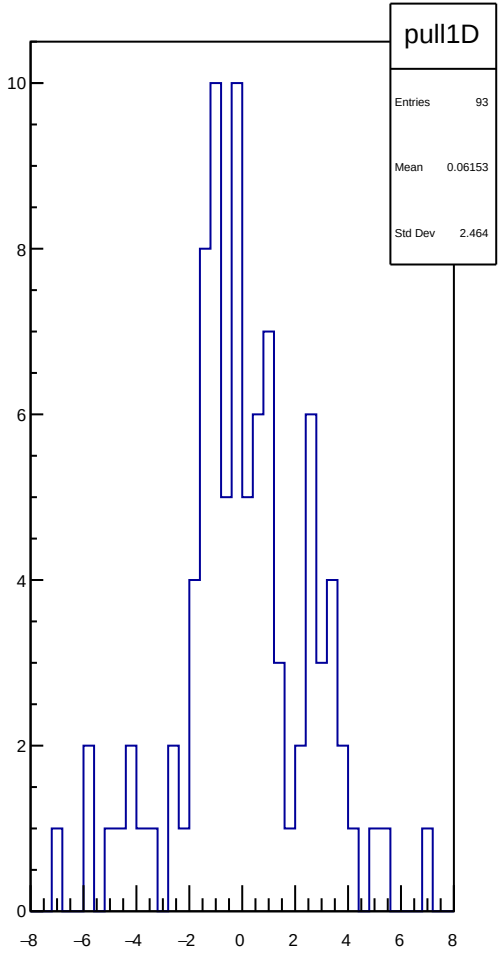

reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 67.23 / 92
p0 20.84 ± 0.2082
pull
Entries 93
Mean 859.4
Std Dev 813.4
pull1D
Entries 93
Mean −0.01122
Std Dev 0.8502

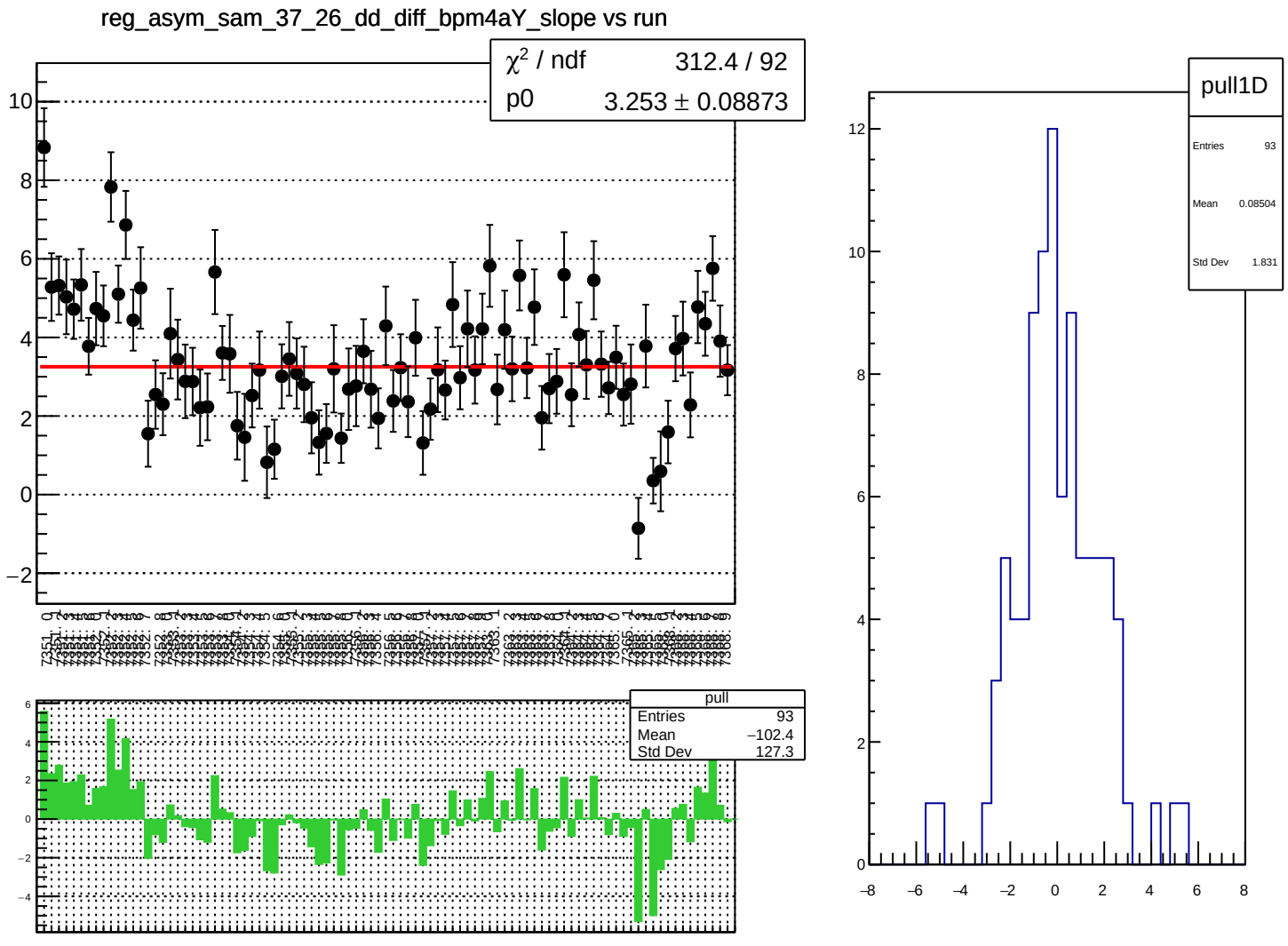

reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 45.69 / 92
p0 36.18 ± 0.2172
pull
Entries 93
Mean 159.3
Std Dev 193.6

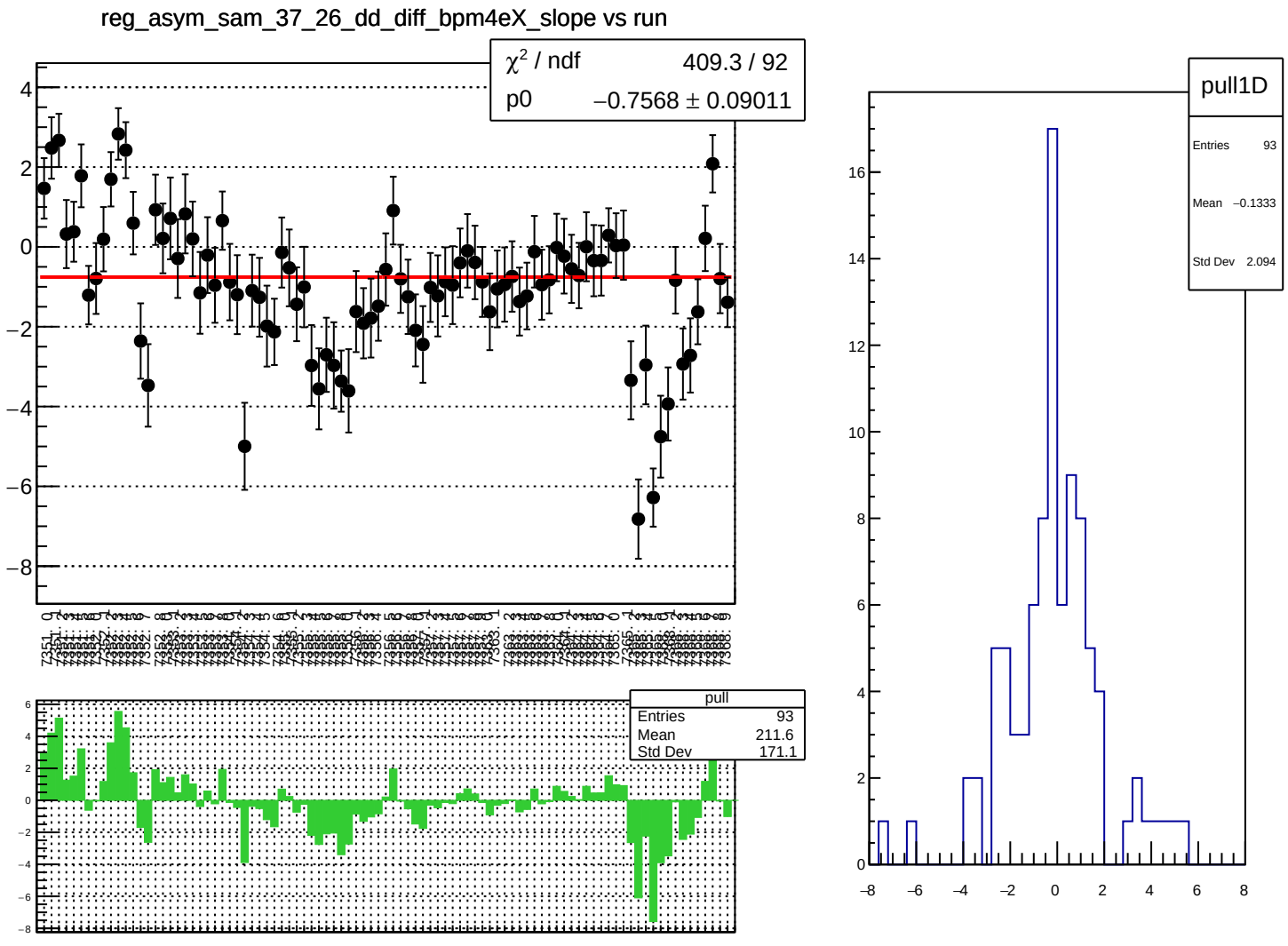

pull1D
Entries 93
Mean 0.008332
Std Dev 0.7008

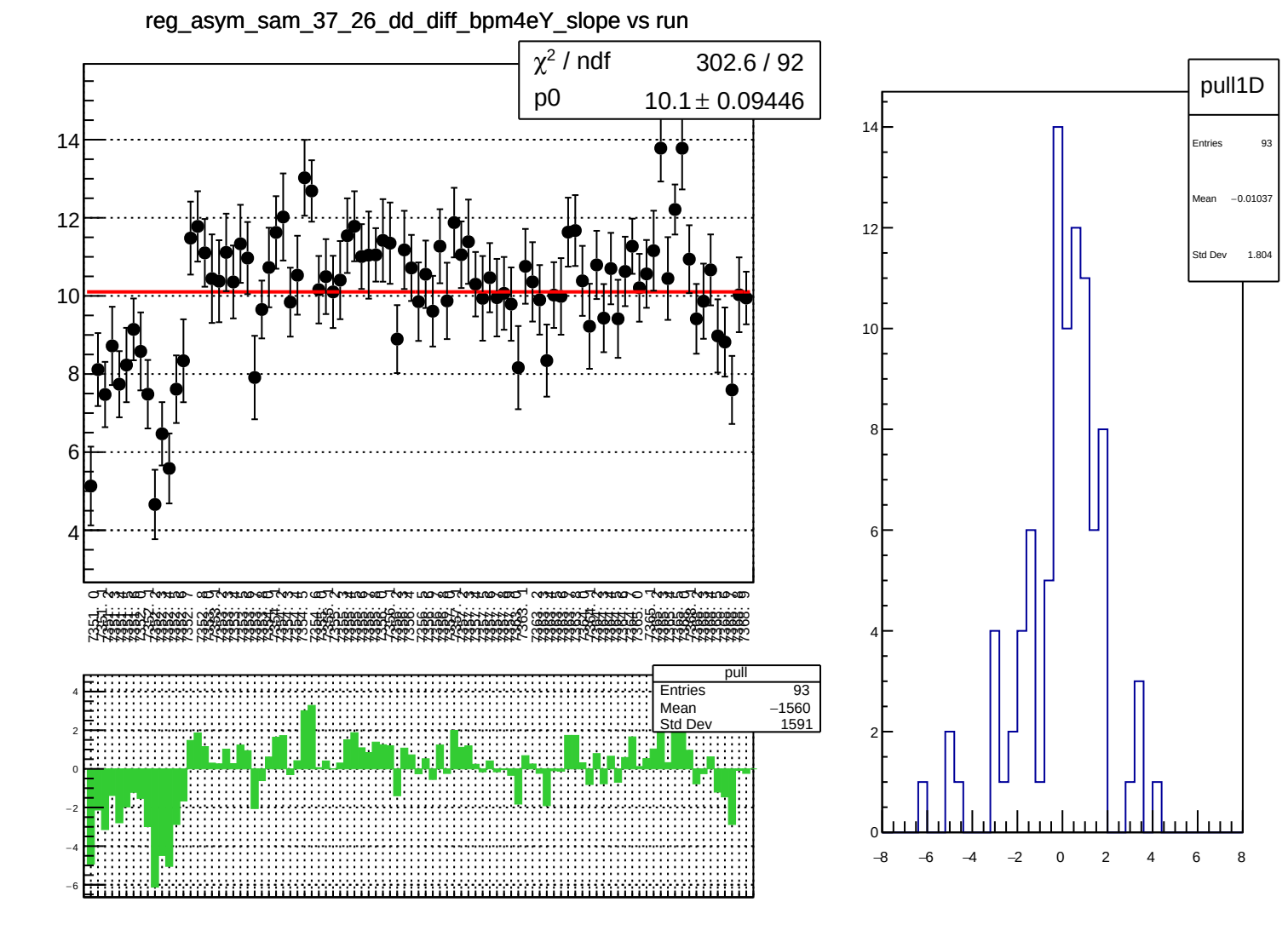

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ² / ndf 25.67 / 92
p0 −0.3327 ± 0.01023
−0.1
−0.2
−0.3
−0.4
−0.5
−0.6
pull
Entries 93
Mean −492.5
Std Dev 515.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.007684
Std Dev 0.5253
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

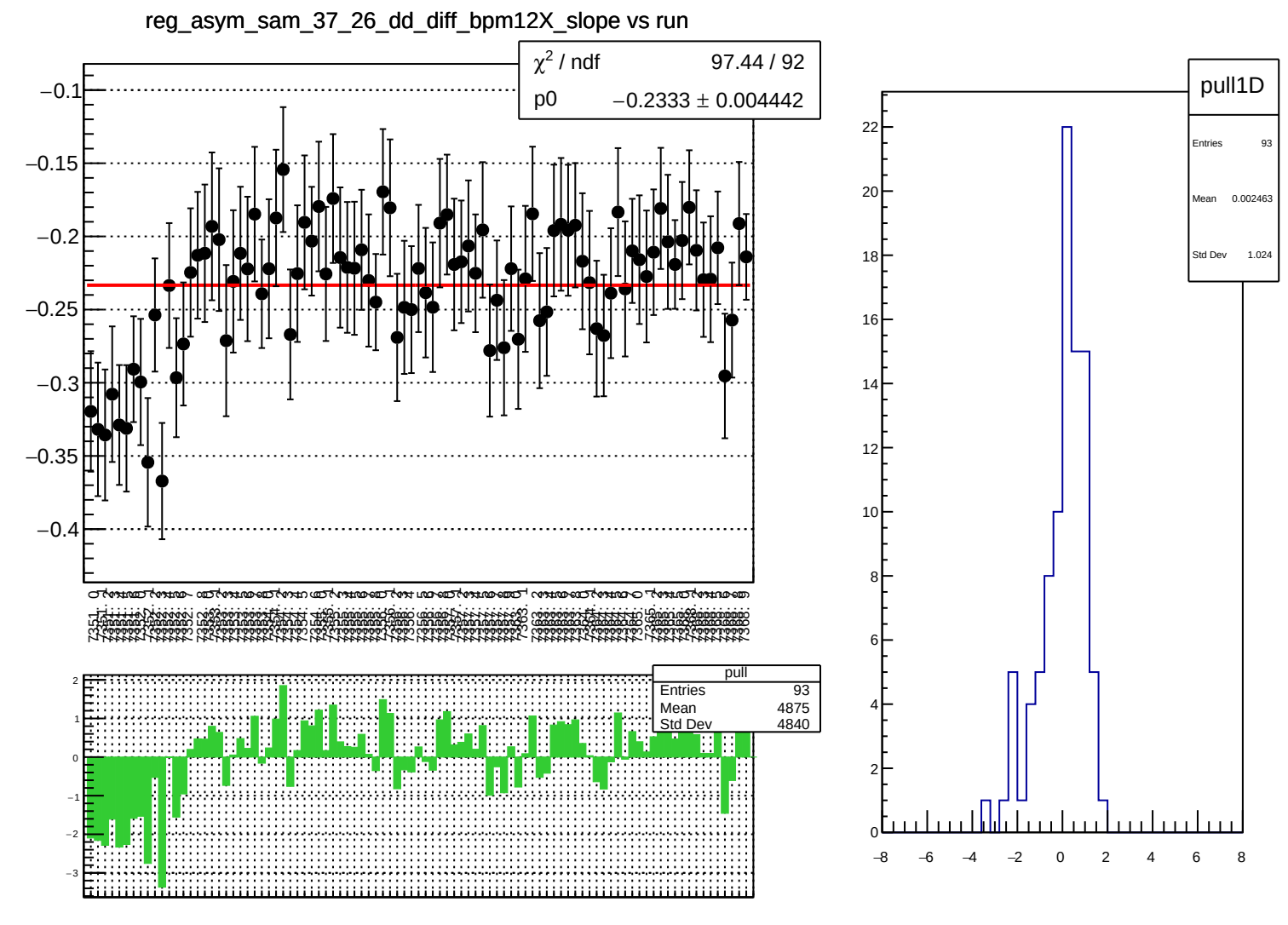

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run
χ² / ndf 627.2 / 92
p0 −7.455 ± 0.09054
pull
Entries 93
Mean 242.7
Std Dev 201.5

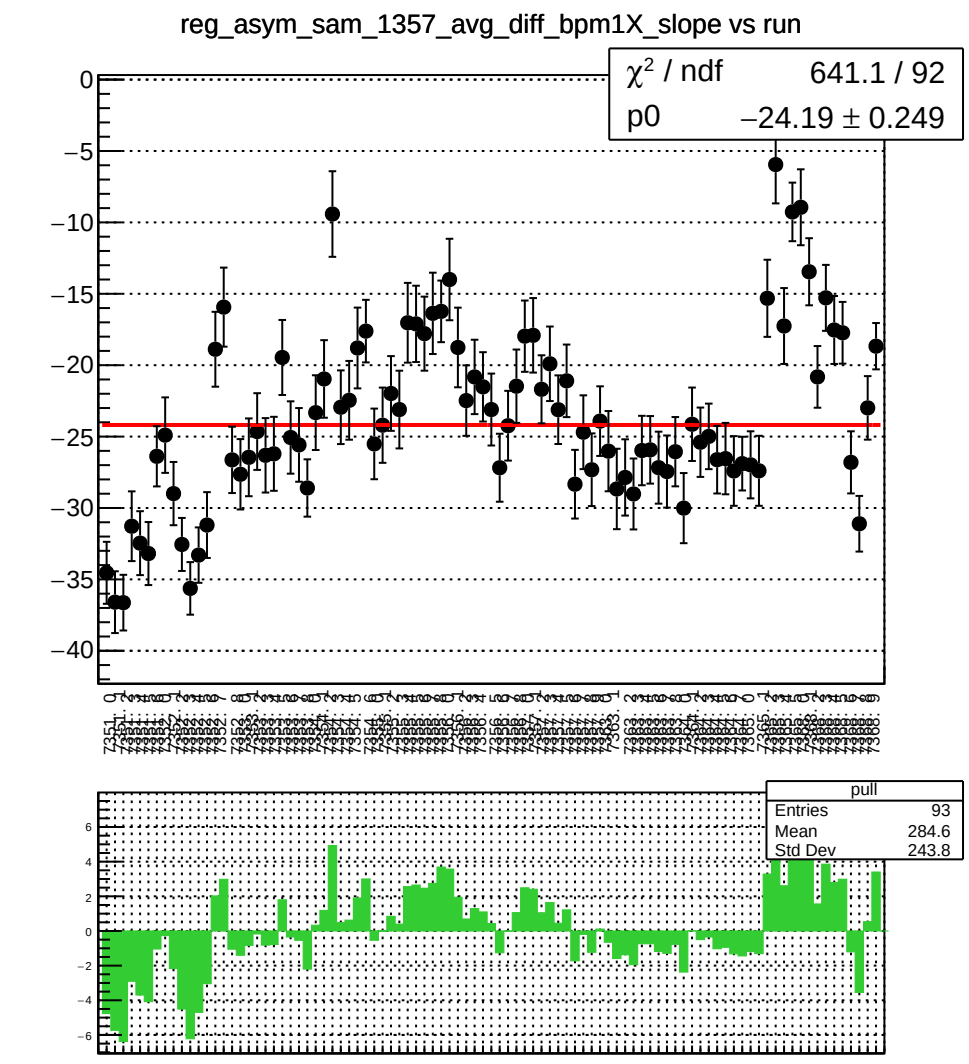

pull1D
Entries 93
Mean 0.06153
Std Dev 2.464

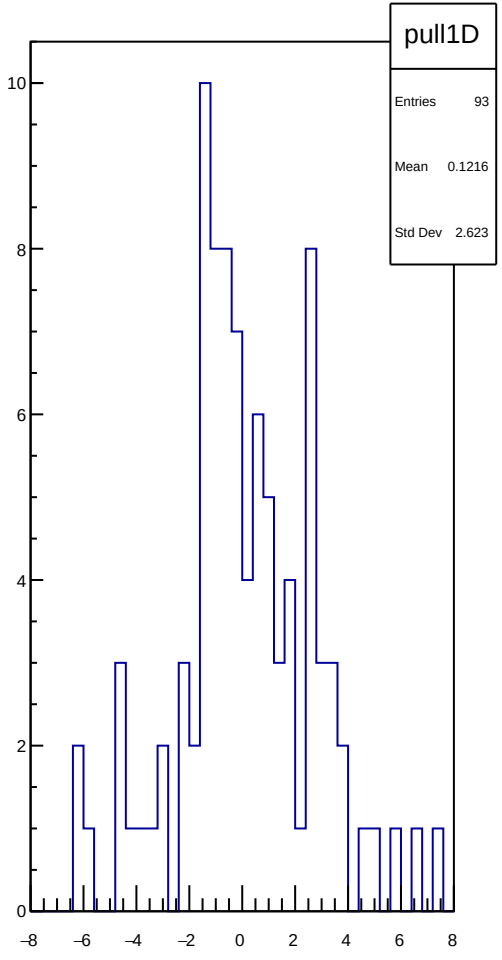

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 312.4 / 92
p0 3.253 ± 0.08873
pull
Entries 93
Mean −102.4
Std Dev 127.3
pull1D
Entries 93
Mean 0.08504
Std Dev 1.831

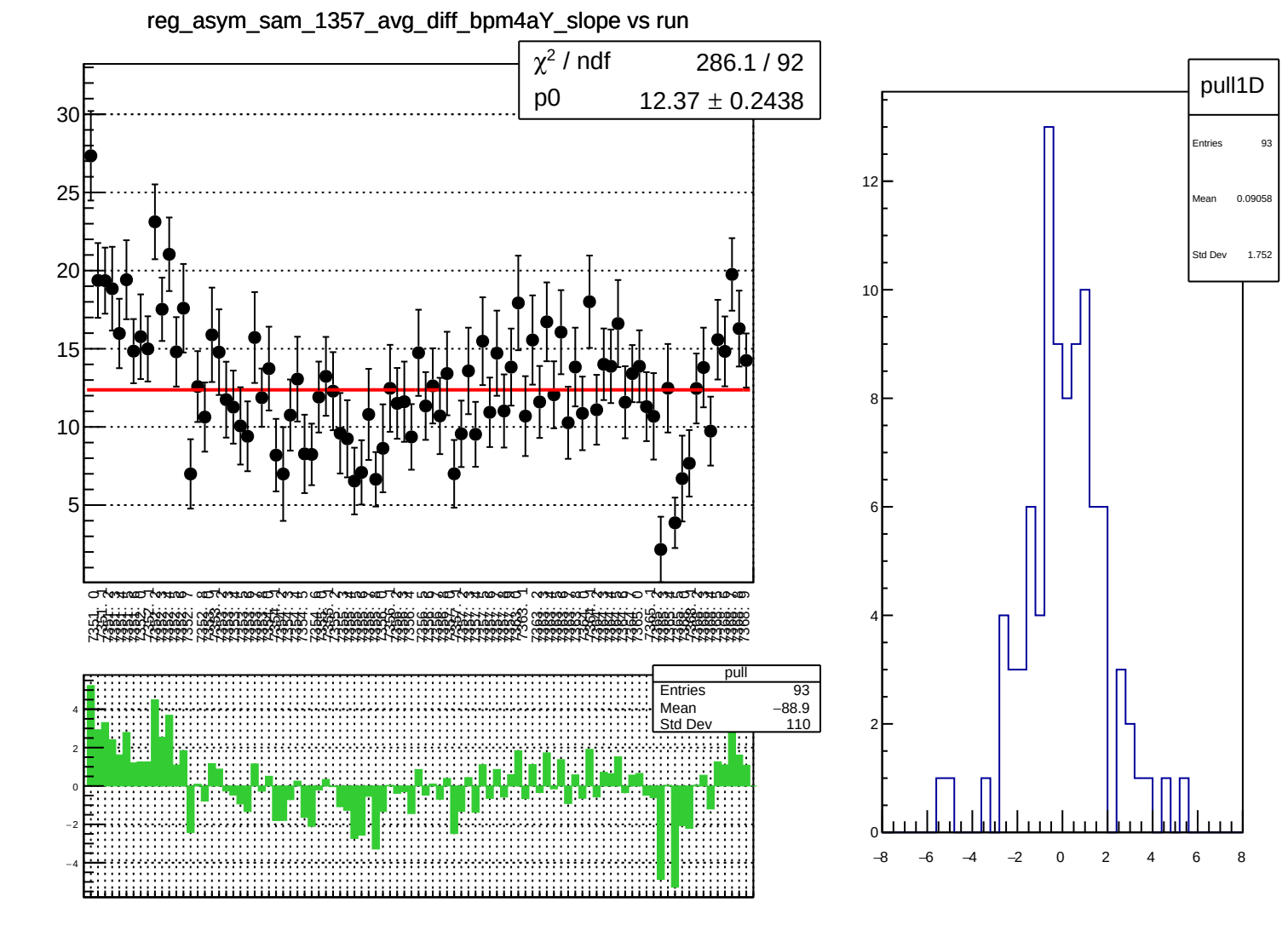

reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 409.3 / 92
p0 −0.7568 ± 0.09011
pull
Entries 93
Mean 211.6
Std Dev 171.1
pull1D
Entries 93
Mean −0.1333
Std Dev 2.094

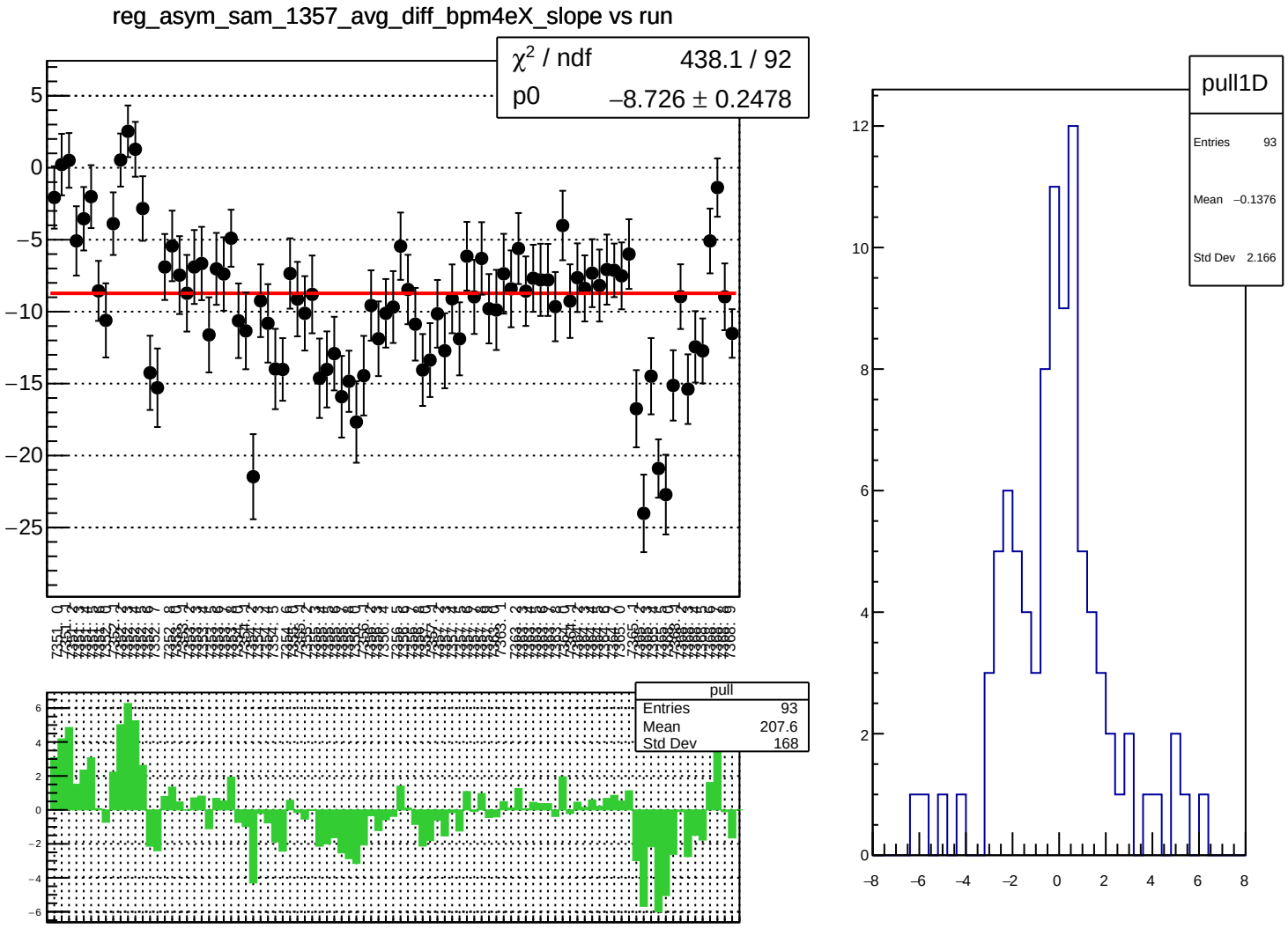

reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 302.6 / 92
p0 10.1 ± 0.09446
pull
Entries 93
Mean −1560
Std Dev 1591
pull1D
Entries 93
Mean −0.01037
Std Dev 1.804

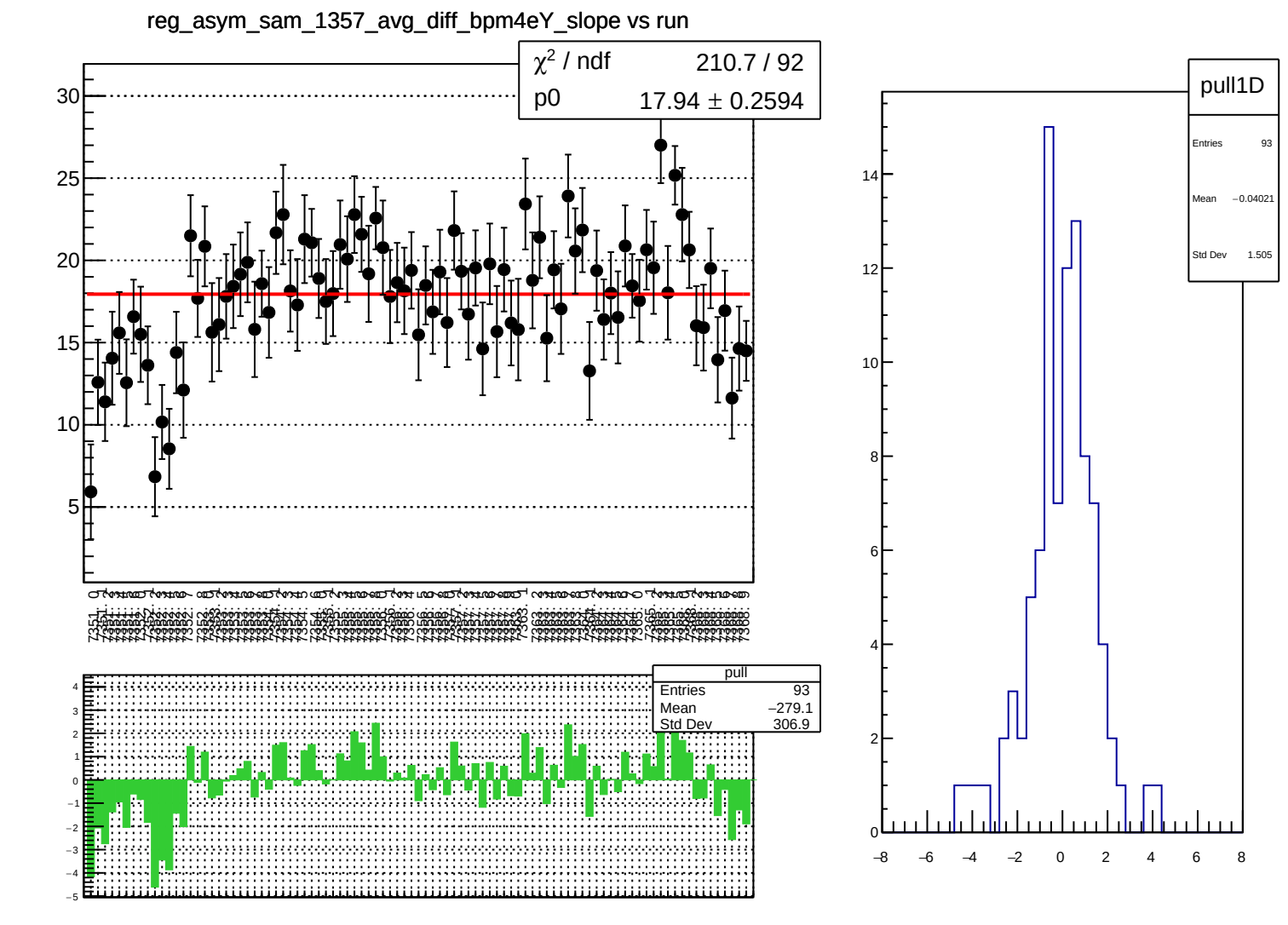

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ² / ndf 97.44 / 92
p0 −0.2333 ± 0.004442
−0.1
−0.15
−0.2
−0.25
−0.3
−0.35
−0.4
pull
Entries 93
Mean 4875
Std Dev 4840
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002463
Std Dev 1.024
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

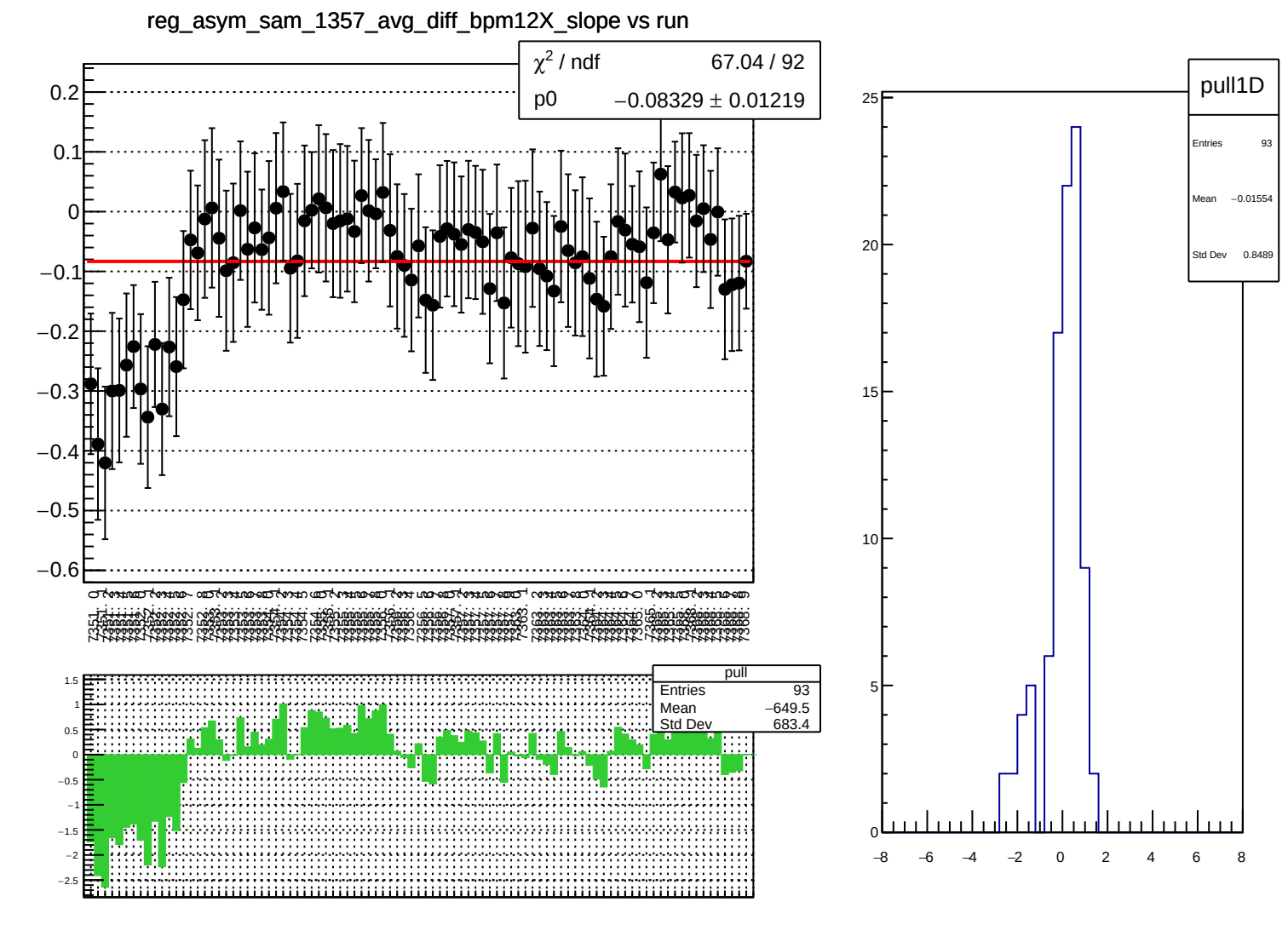

reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ² / ndf 641.1 / 92
p0 −24.19 ± 0.249
pull
Entries 93
Mean 284.6
Std Dev 243.8

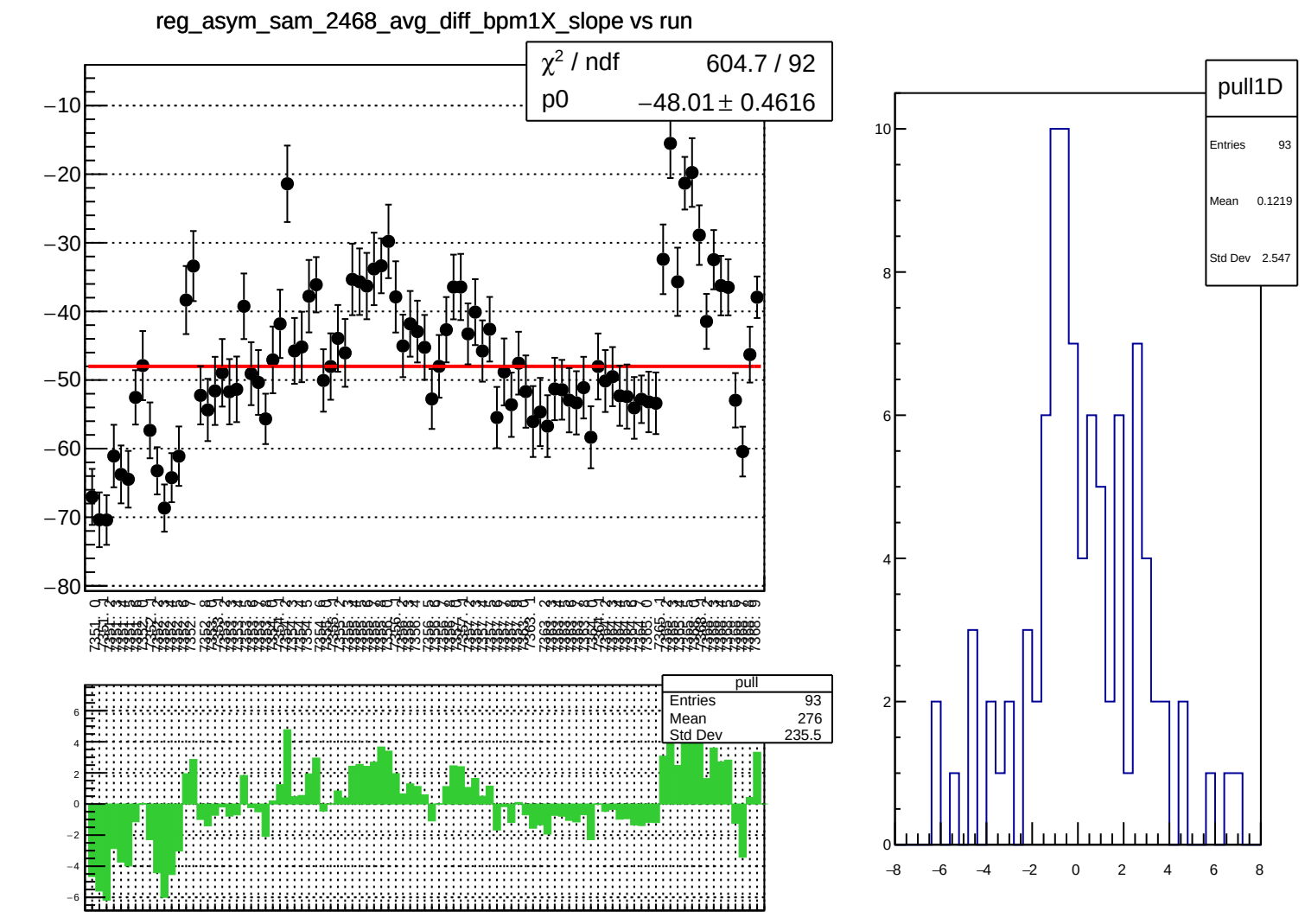

pull1D
Entries 93
Mean 0.1216
Std Dev 2.623

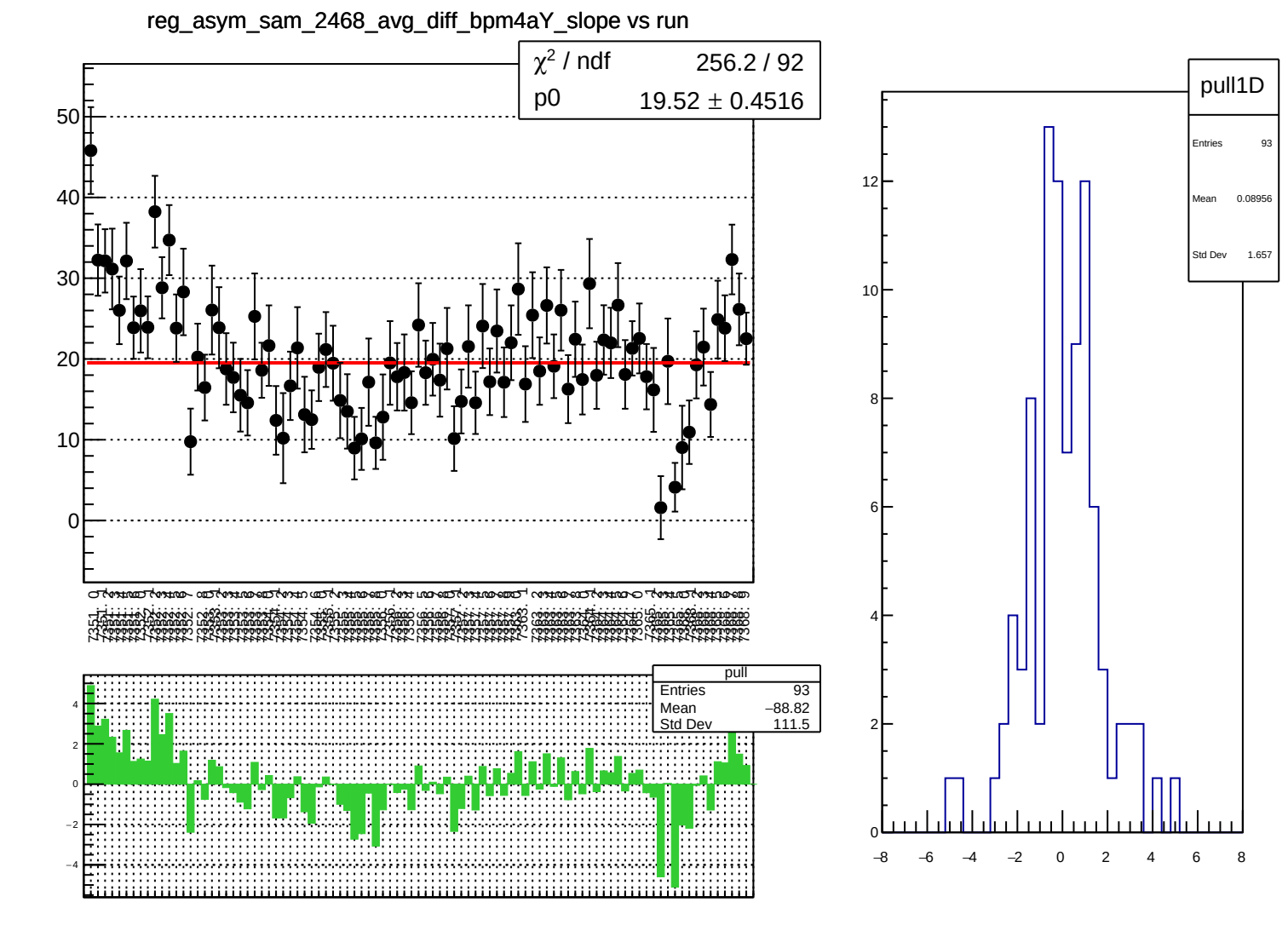

reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ² / ndf 286.1 / 92
p0 12.37 ± 0.2438
pull
Entries 93
Mean −88.9
Std Dev 110
pull1D
Entries 93
Mean 0.09058
Std Dev 1.752

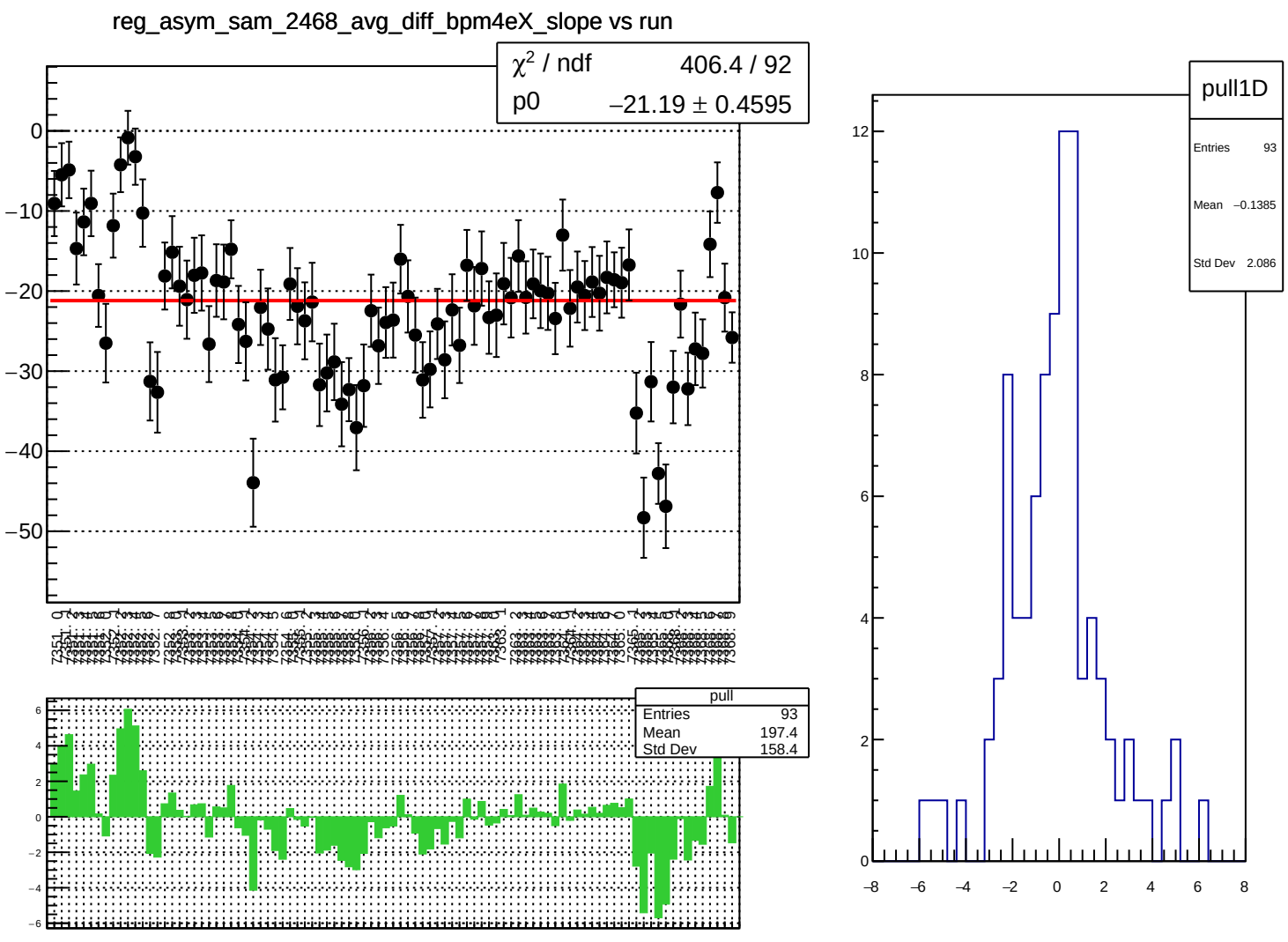

reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ² / ndf 438.1 / 92
p0 −8.726 ± 0.2478
pull
Entries 93
Mean 207.6
Std Dev 168
pull1D
Entries 93
Mean −0.1376
Std Dev 2.166

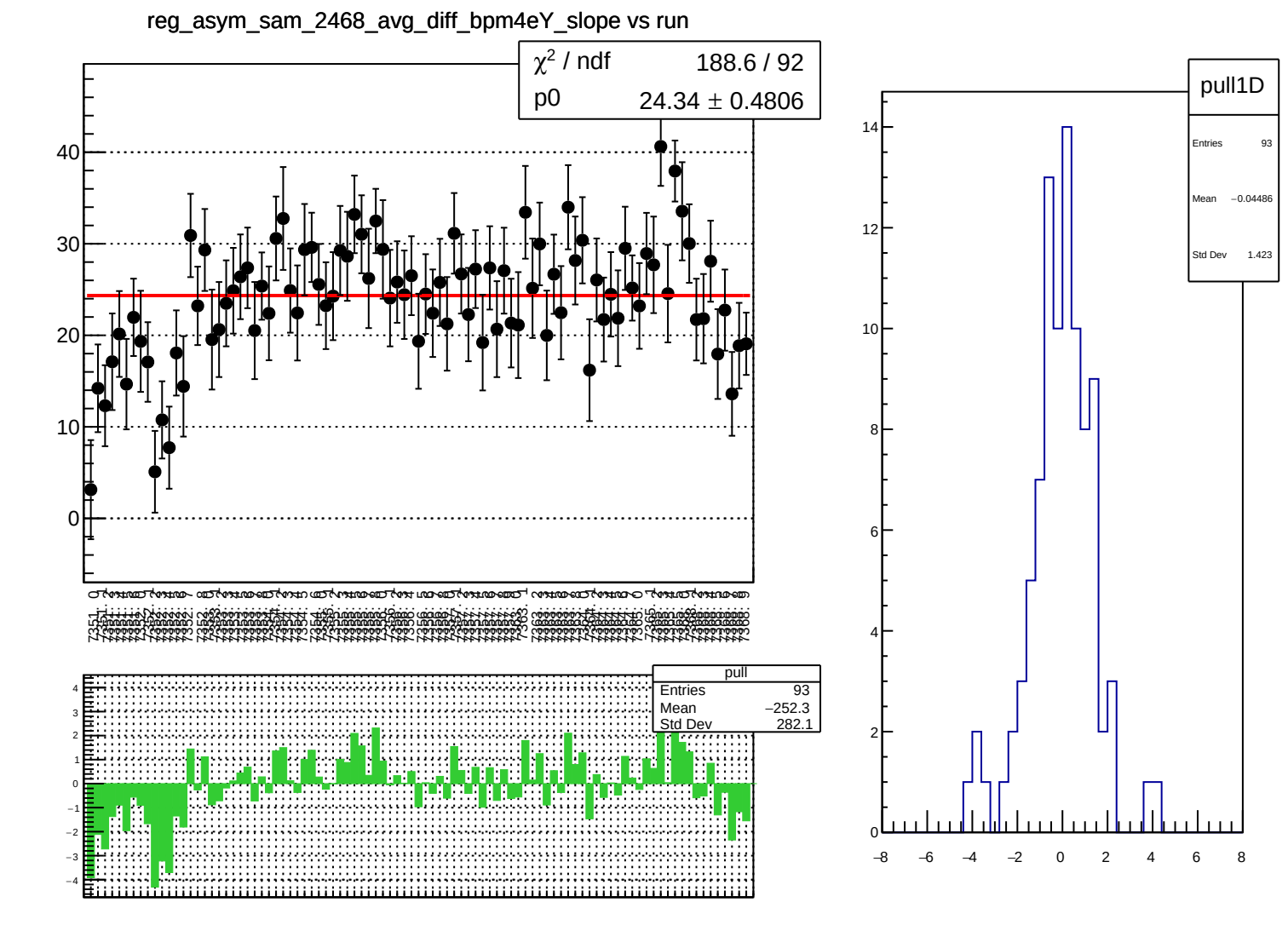

reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ² / ndf 210.7 / 92
p0 17.94 ± 0.2594
pull
Entries 93
Mean −279.1
Std Dev 306.9
pull1D
Entries 93
Mean −0.04021
Std Dev 1.505

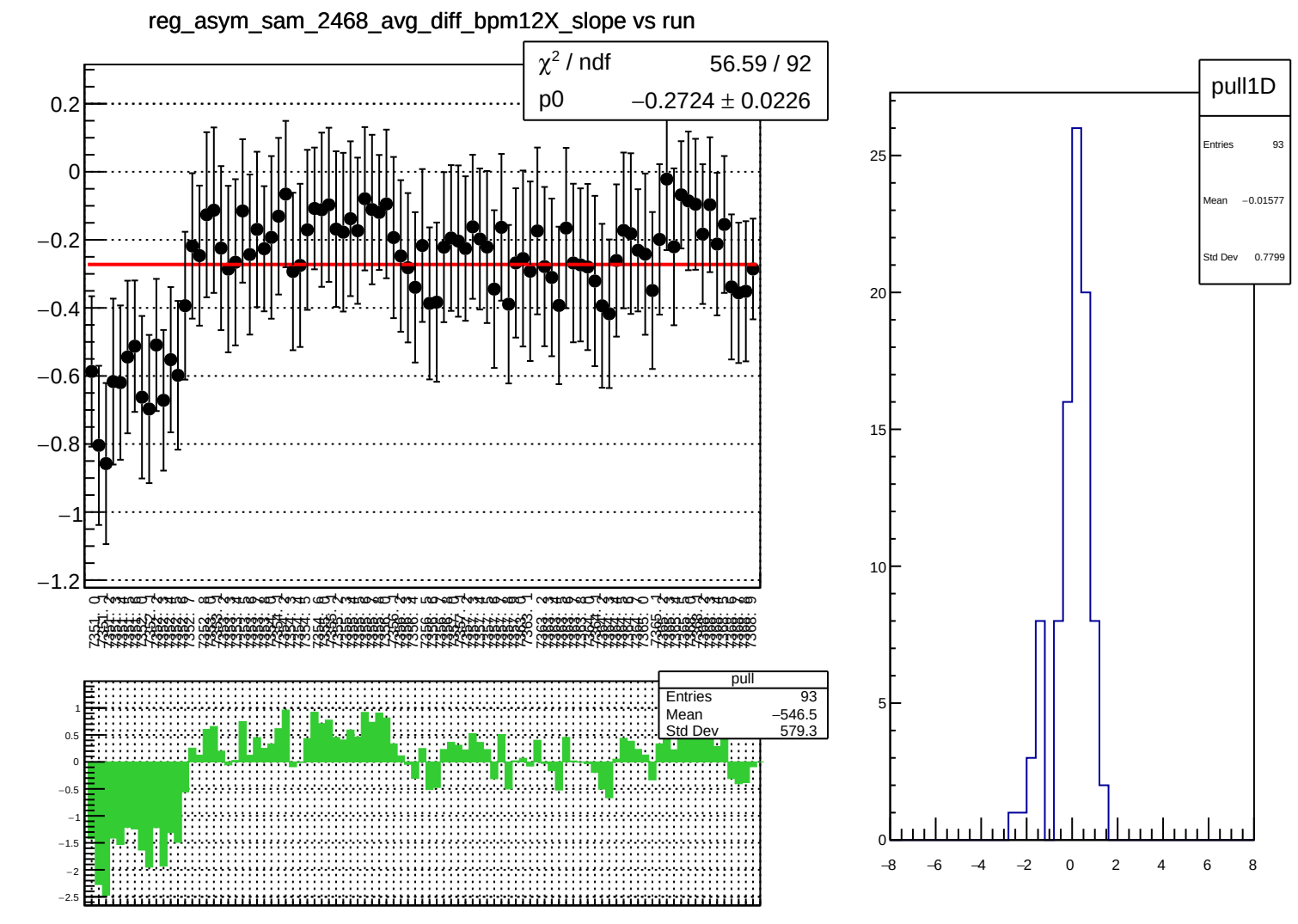

reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ² / ndf 67.04 / 92
p0 −0.08329 ± 0.01219
pull
Entries 93
Mean −649.5
Std Dev 683.4
pull1D
Entries 93
Mean −0.01554
Std Dev 0.8489

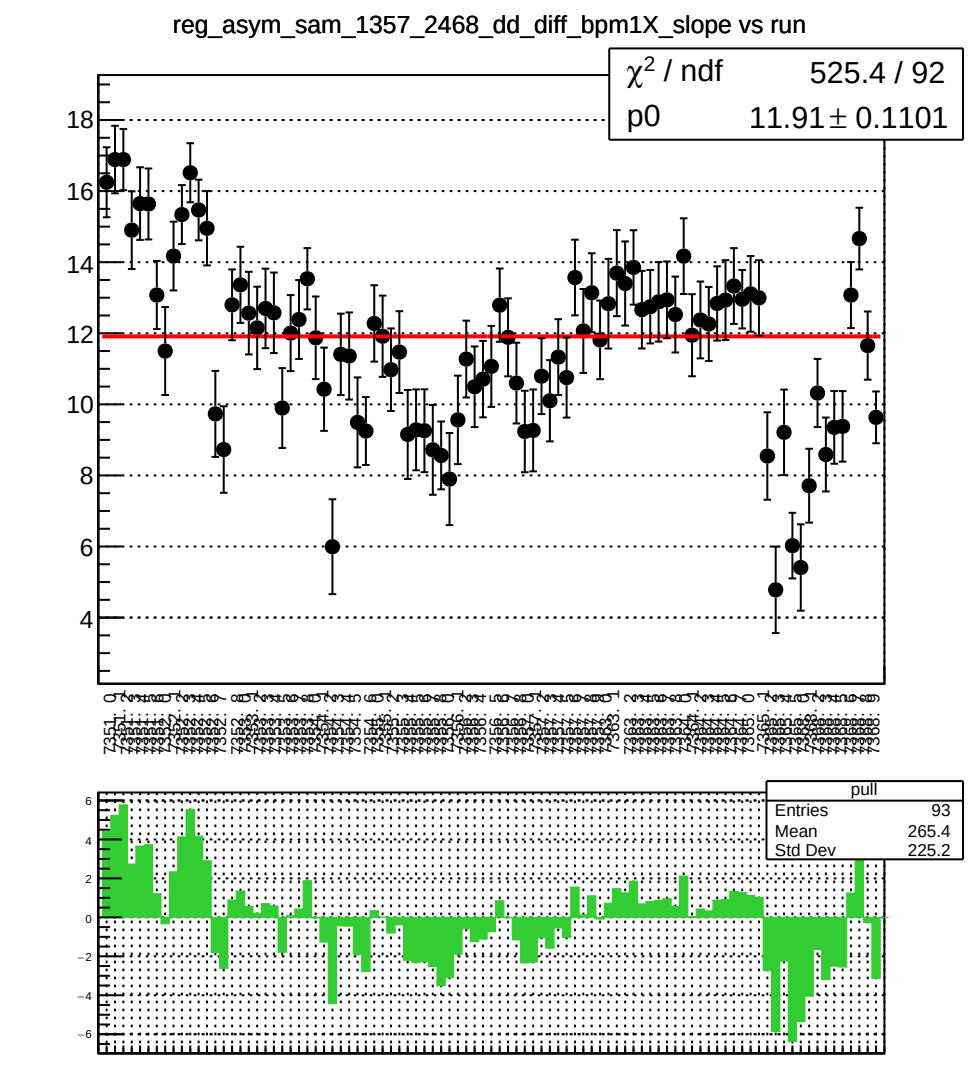

reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ² / ndf 604.7 / 92
p0 −48.01 ± 0.4616
pull
Entries 93
Mean 276
Std Dev 235.5
pull1D
Entries 93
Mean 0.1219
Std Dev 2.547

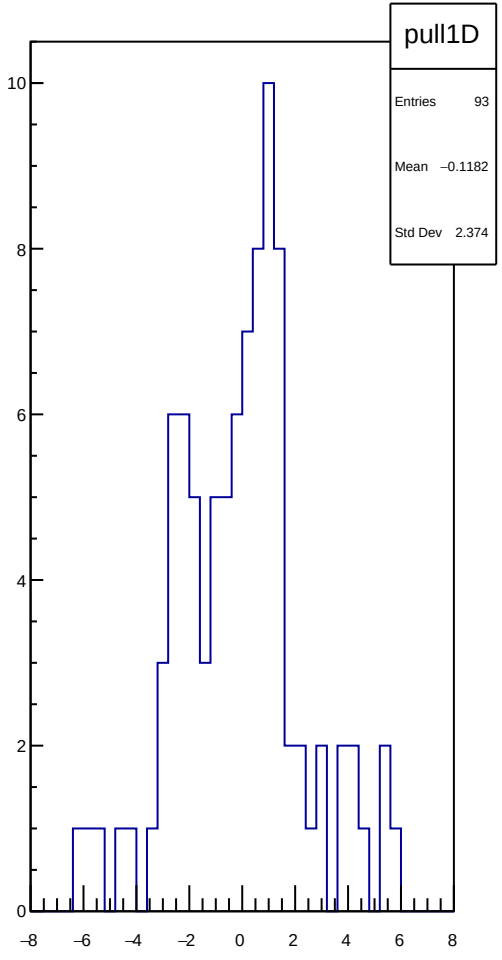

reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ² / ndf 256.2 / 92
p0 19.52 ± 0.4516
pull
Entries 93
Mean −88.82
Std Dev 111.5
pull1D
Entries 93
Mean 0.08956
Std Dev 1.657

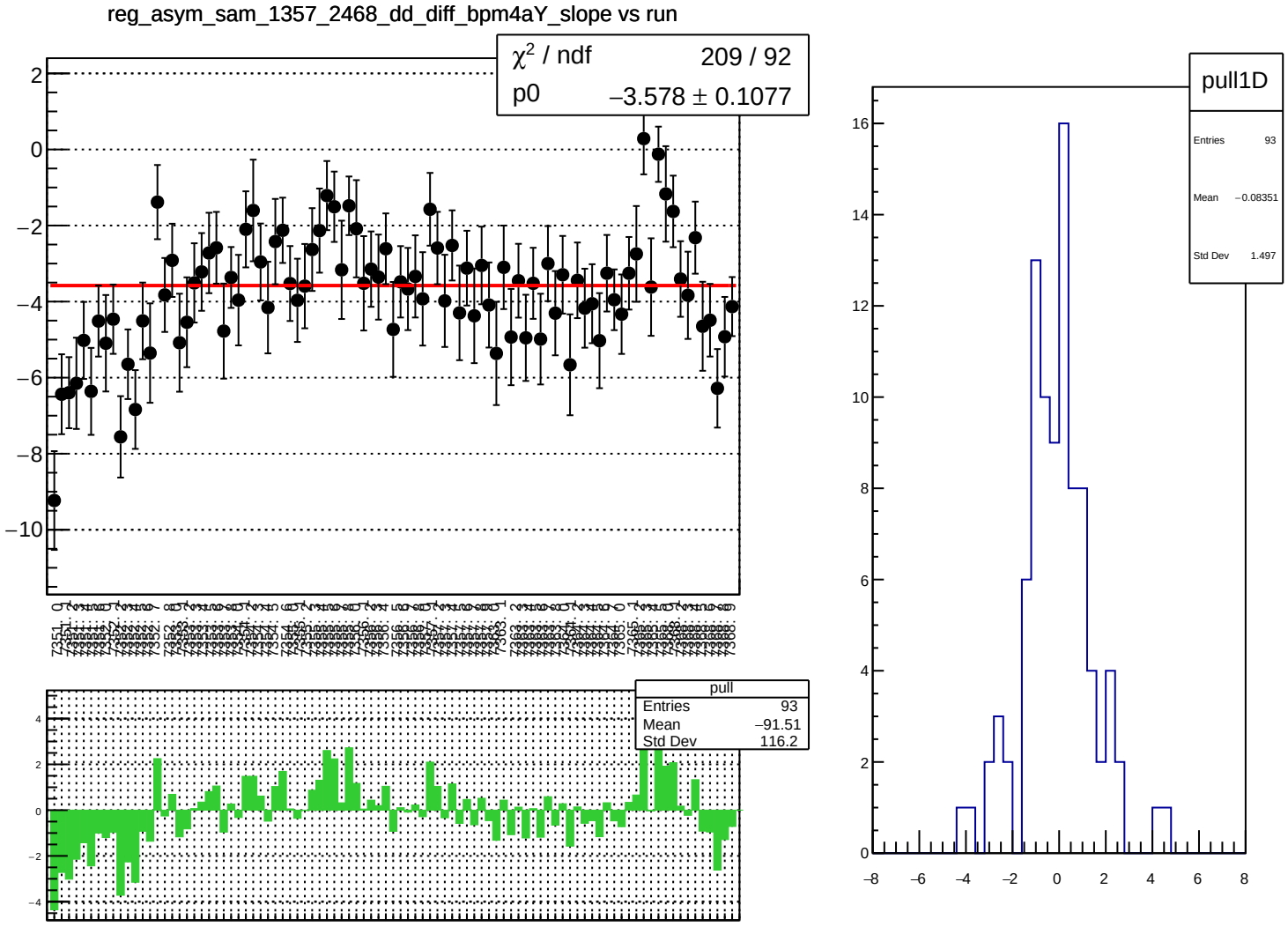

reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ² / ndf 406.4 / 92
p0 −21.19 ± 0.4595
pull
Entries 93
Mean 197.4
Std Dev 158.4
pull1D
Entries 93
Mean −0.1385
Std Dev 2.086

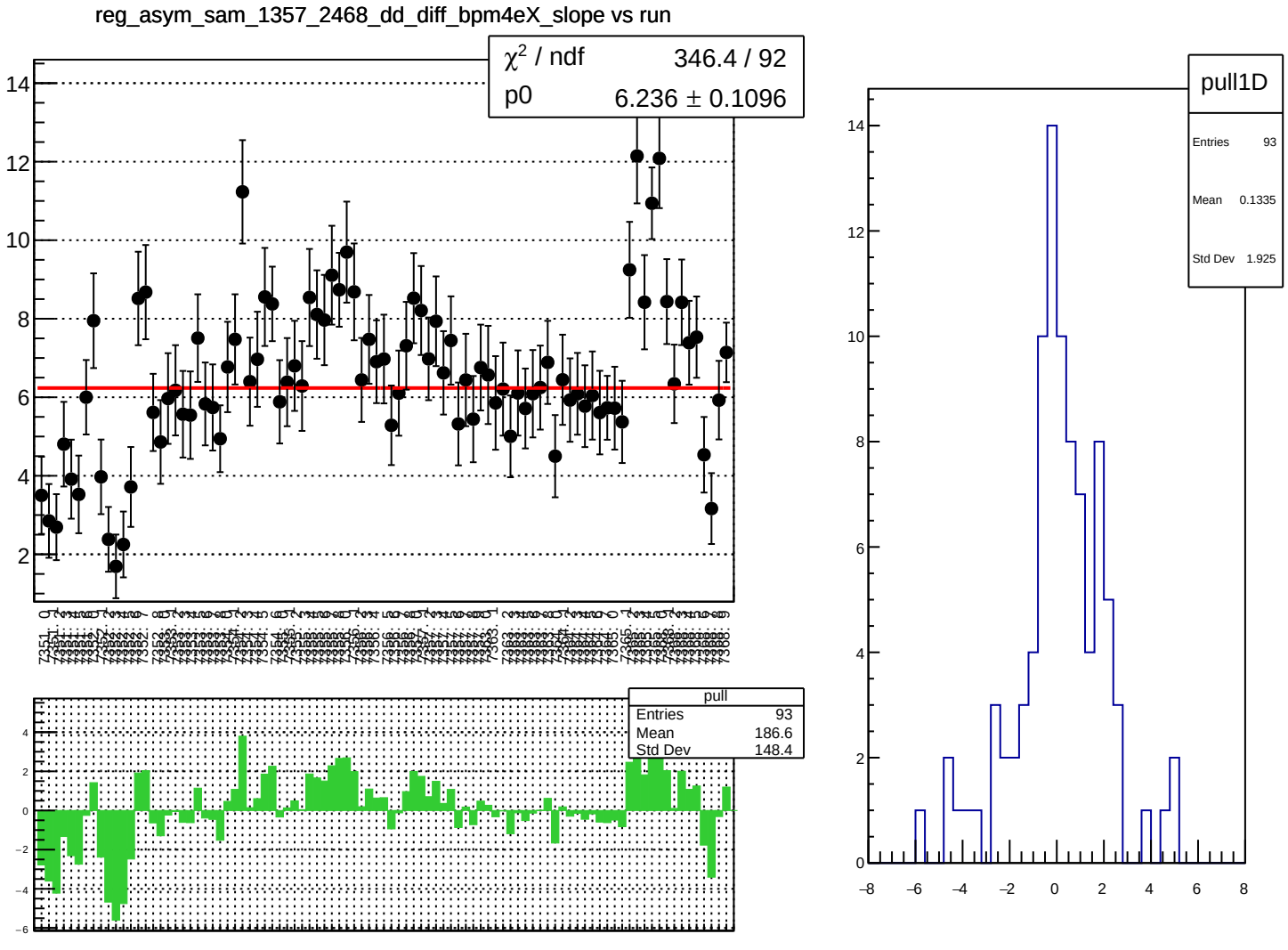

reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ² / ndf 188.6 / 92
p0 24.34 ± 0.4806
pull
Entries 93
Mean −252.3
Std Dev 282.1
pull1D
Entries 93
Mean −0.04486
Std Dev 1.423

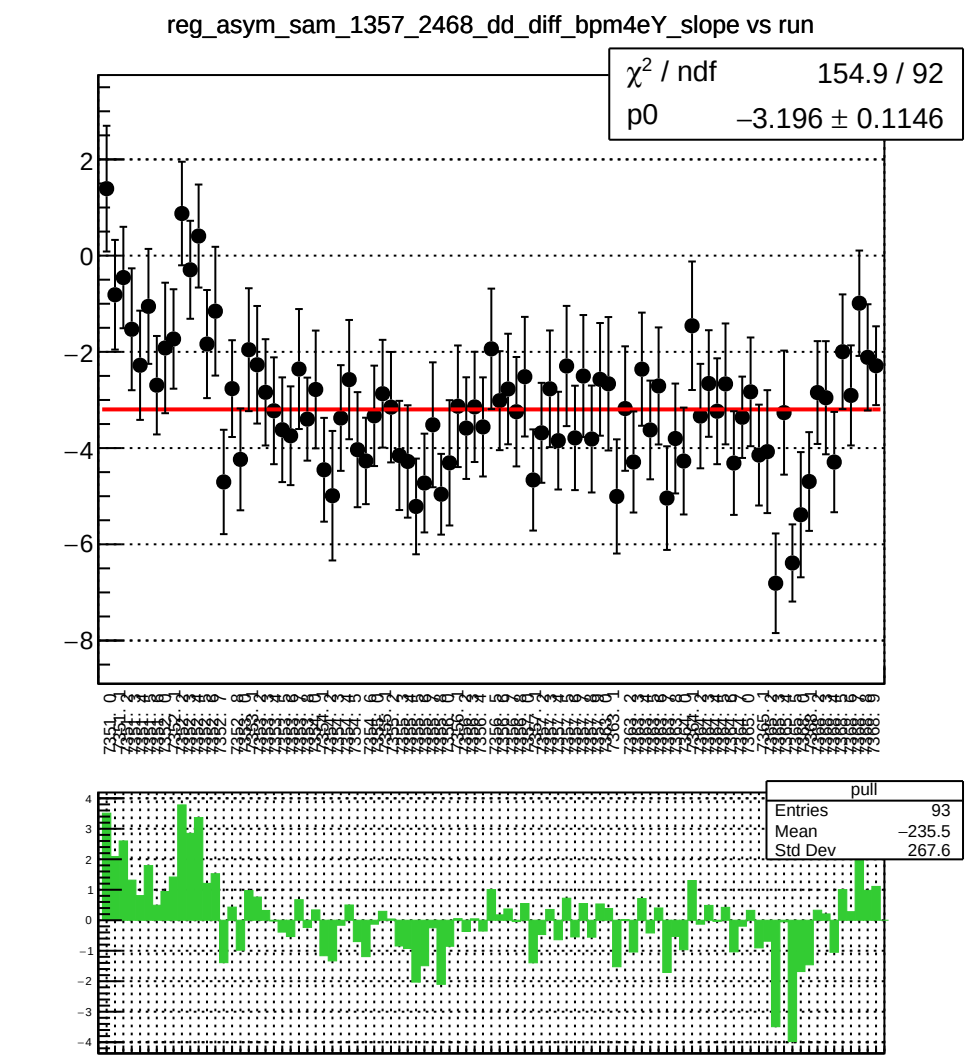

reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ² / ndf 56.59 / 92
p0 −0.2724 ± 0.0226
pull
Entries 93
Mean −546.5
Std Dev 579.3
pull1D
Entries 93
Mean −0.01577
Std Dev 0.7799

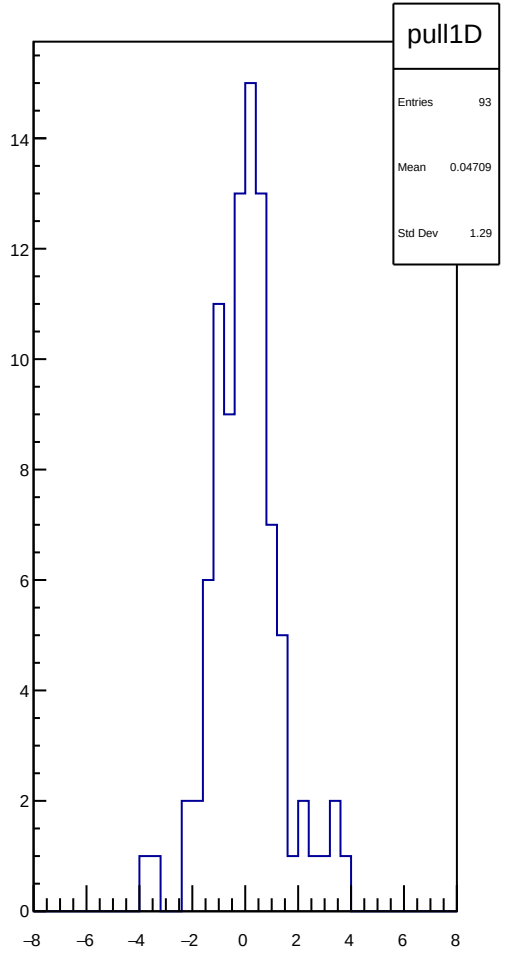

reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ² / ndf 525.4 / 92
p0 11.91 ± 0.1101
pull
Entries 93
Mean 265.4
Std Dev 225.2

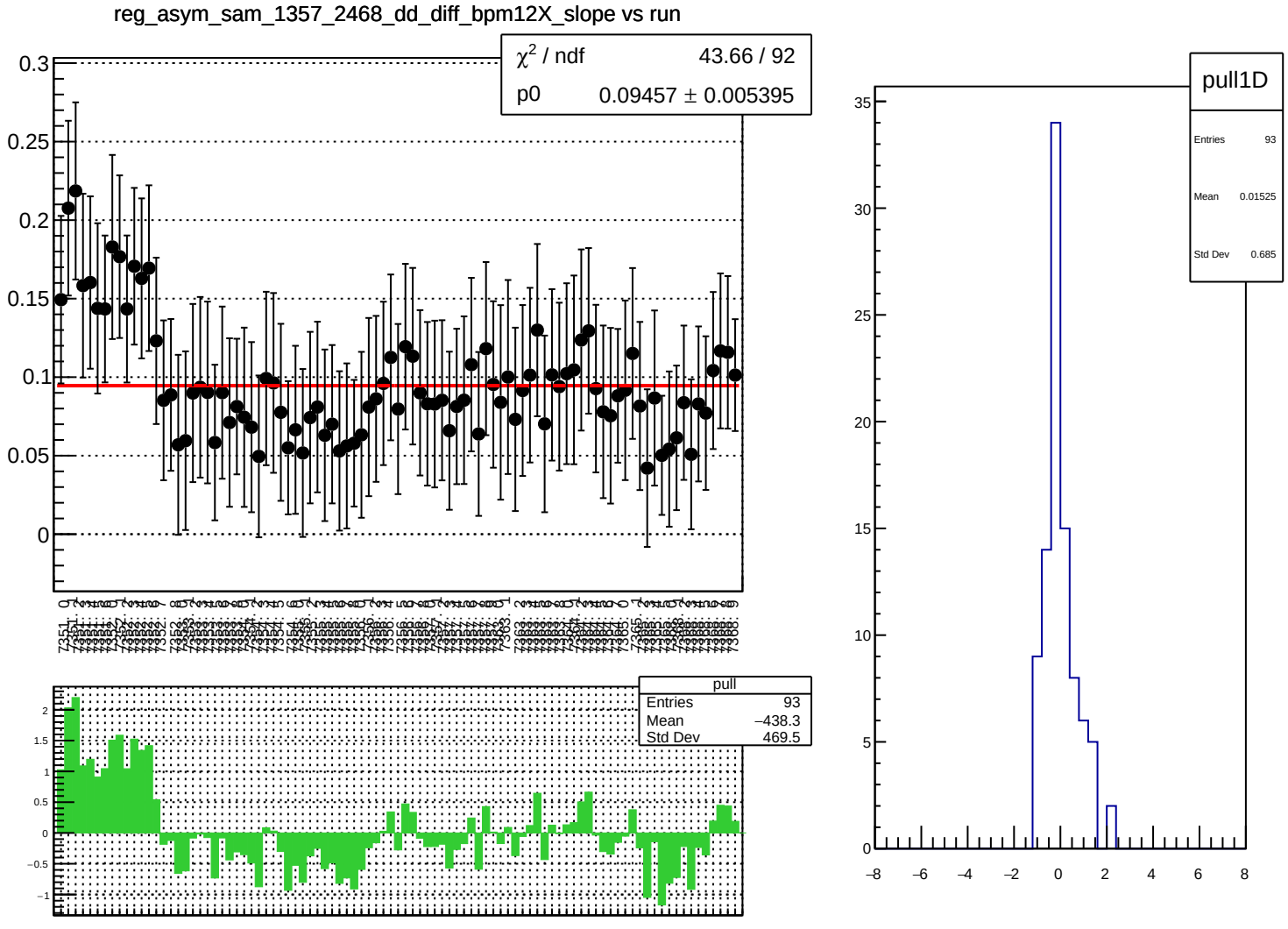

pull1D
Entries 93
Mean −0.1182
Std Dev 2.374

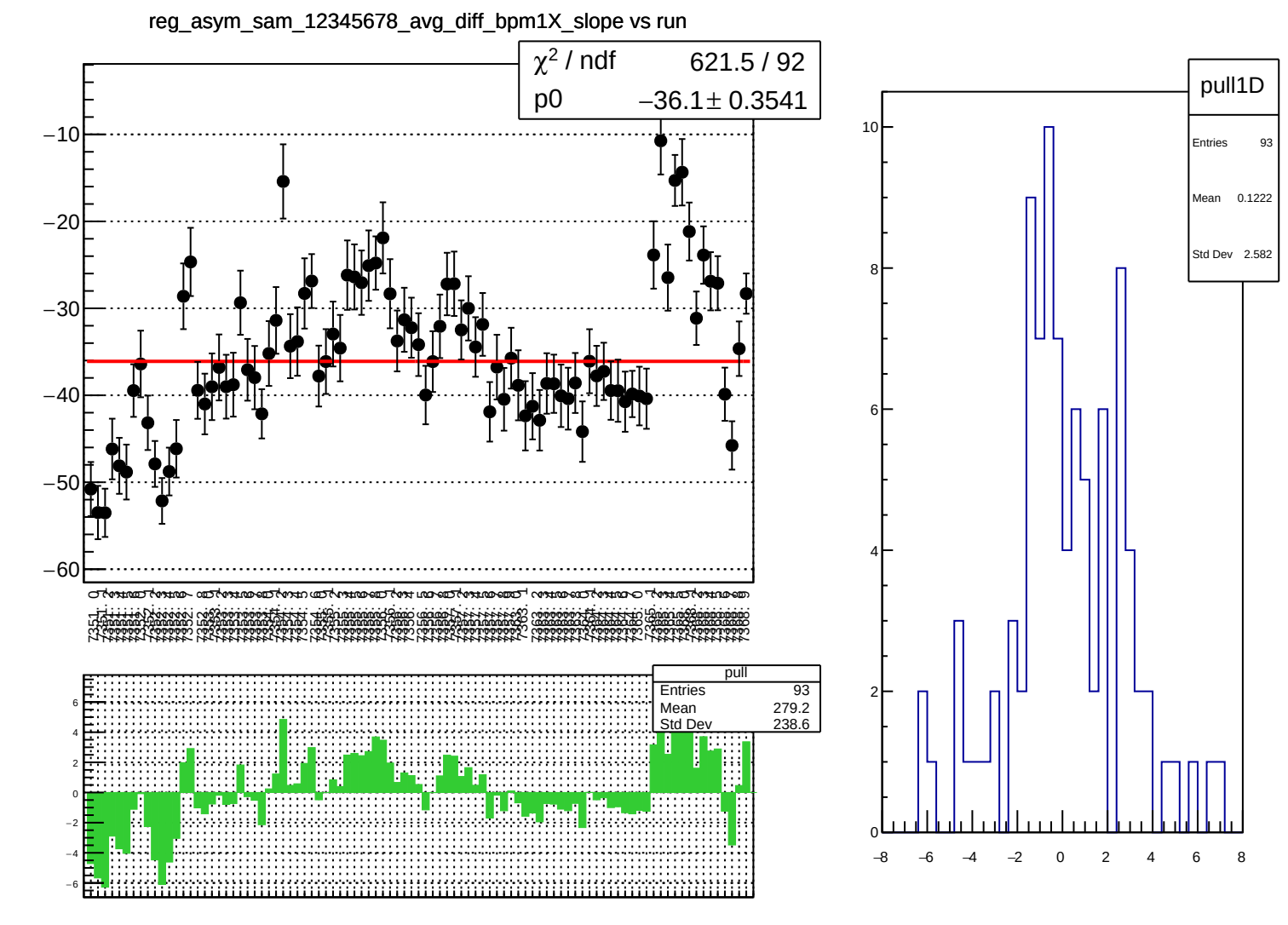

reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ² / ndf 209 / 92
p0 −3.578 ± 0.1077
pull
Entries 93
Mean −91.51
Std Dev 116.2
pull1D
Entries 93
Mean −0.08351
Std Dev 1.497

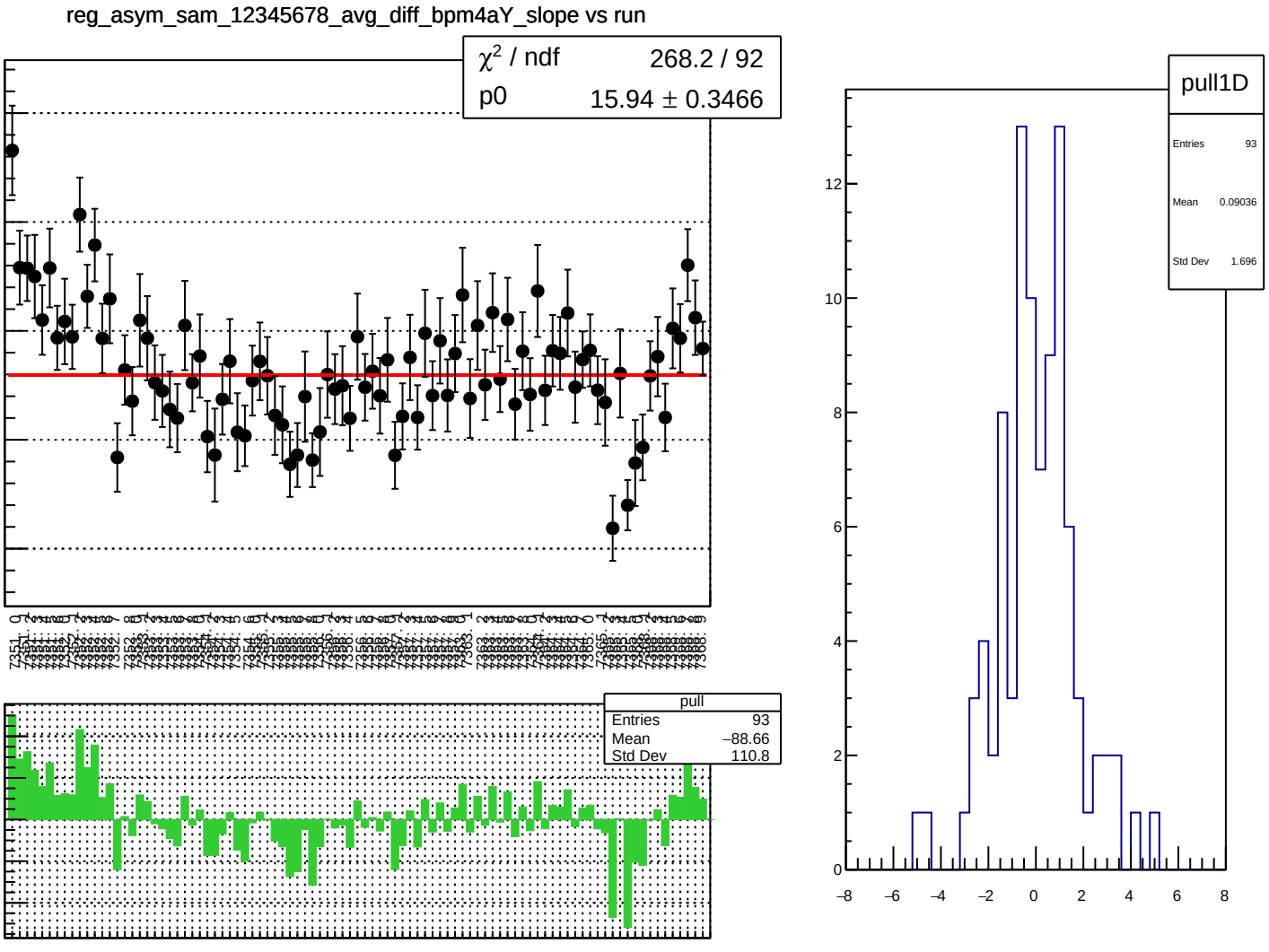

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ² / ndf 346.4 / 92
p0 6.236 ± 0.1096
pull
Entries 93
Mean 186.6
Std Dev 148.4
pull1D
Entries 93
Mean 0.1335
Std Dev 1.925

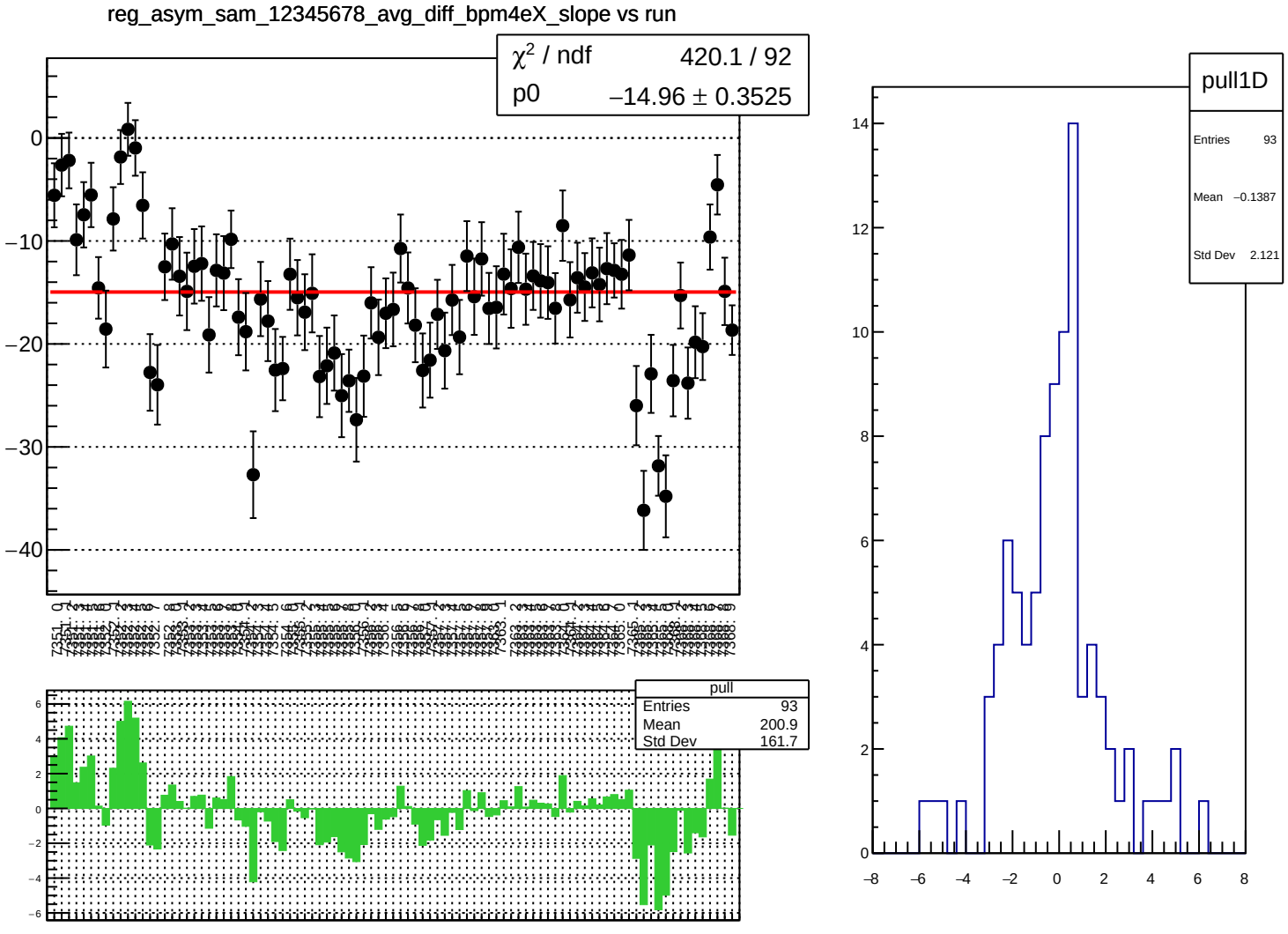

reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ² / ndf 154.9 / 92
p0 −3.196 ± 0.1146
pull
Entries 93
Mean −235.5
Std Dev 267.6

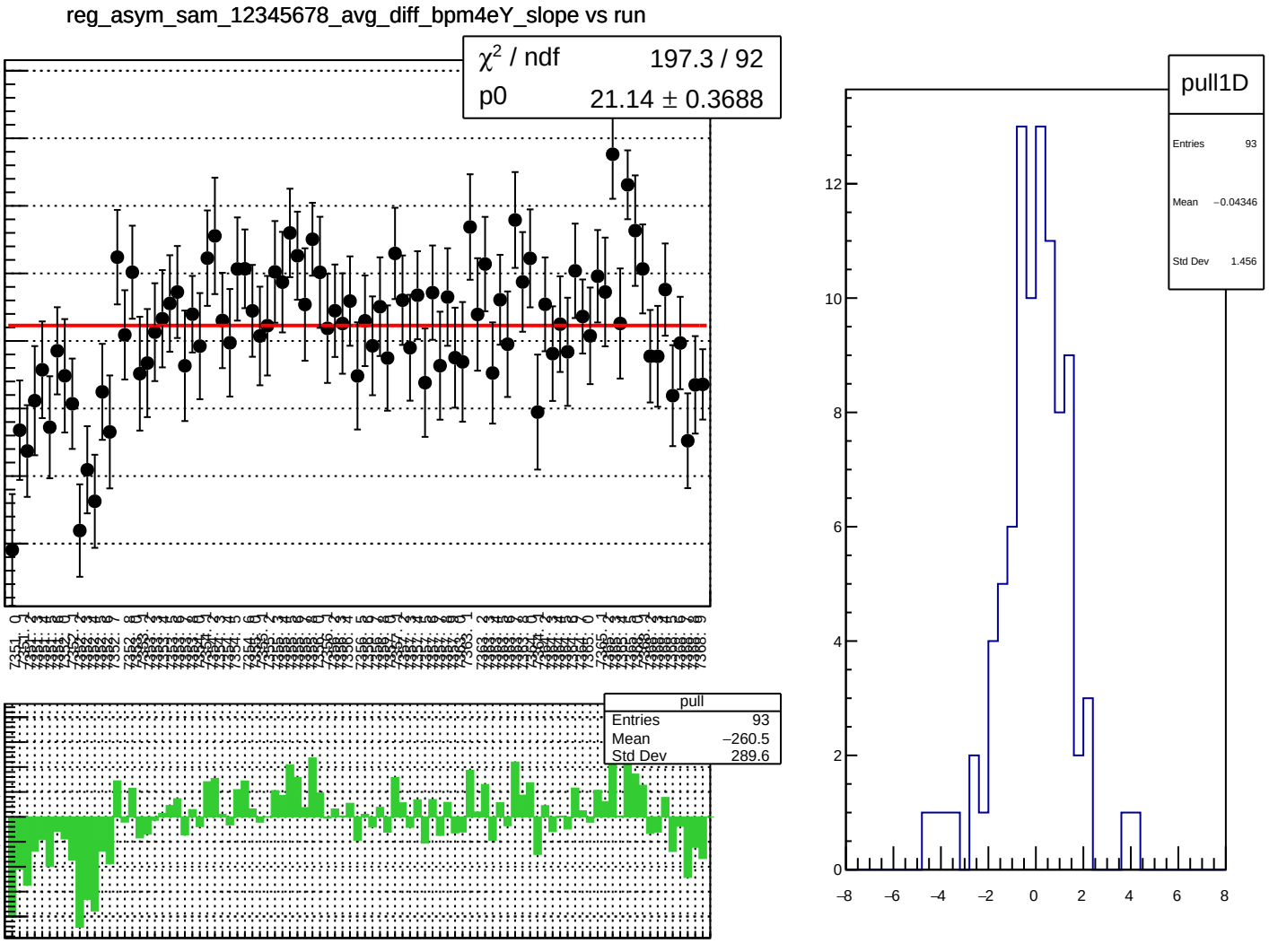

pull1D
Entries 93
Mean 0.04709
Std Dev 1.29

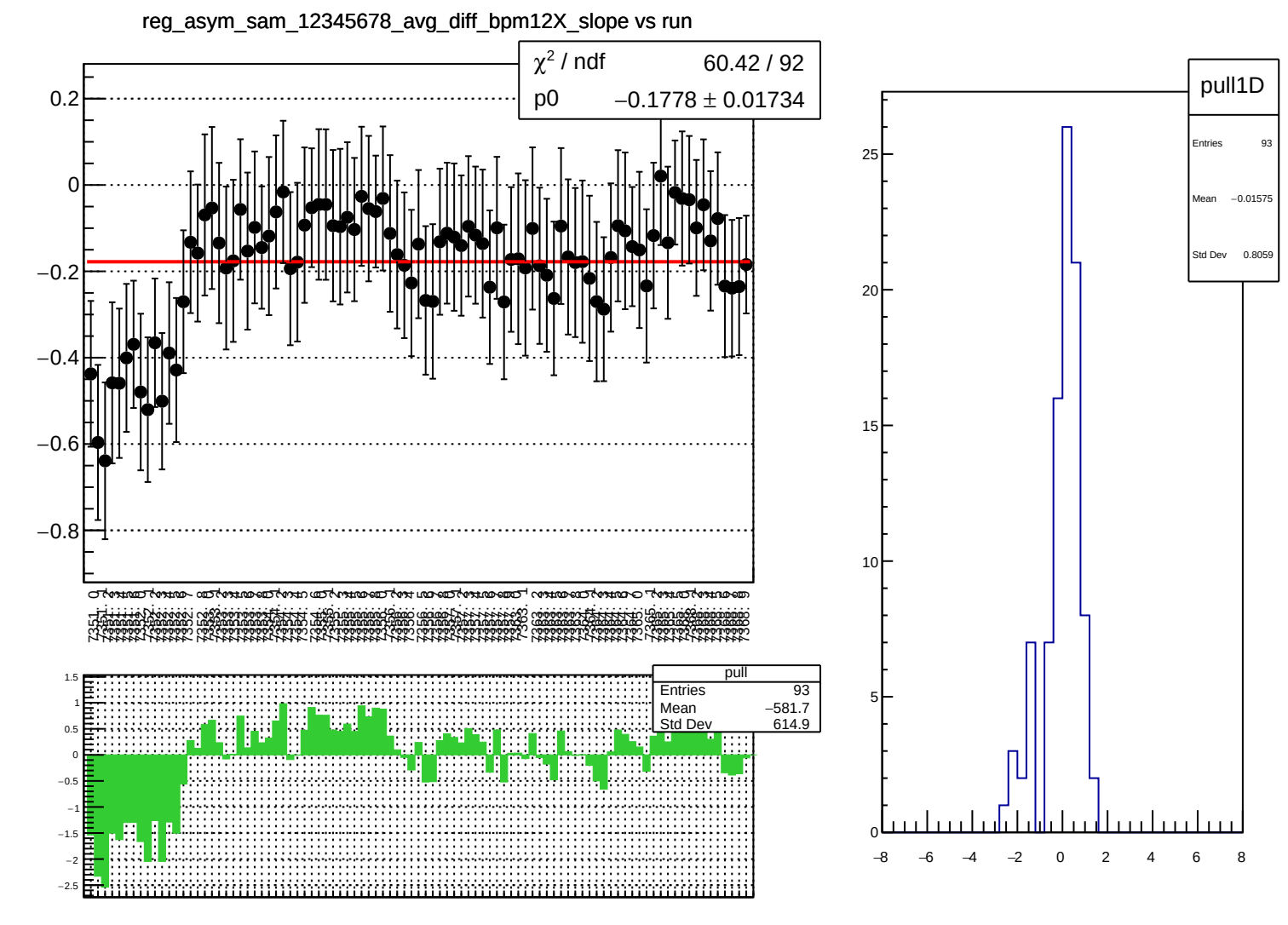

reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ² / ndf 43.66 / 92
p0 0.09457 ± 0.005395
pull
Entries 93
Mean −438.3
Std Dev 469.5
pull1D
Entries 93
Mean 0.01525
Std Dev 0.685

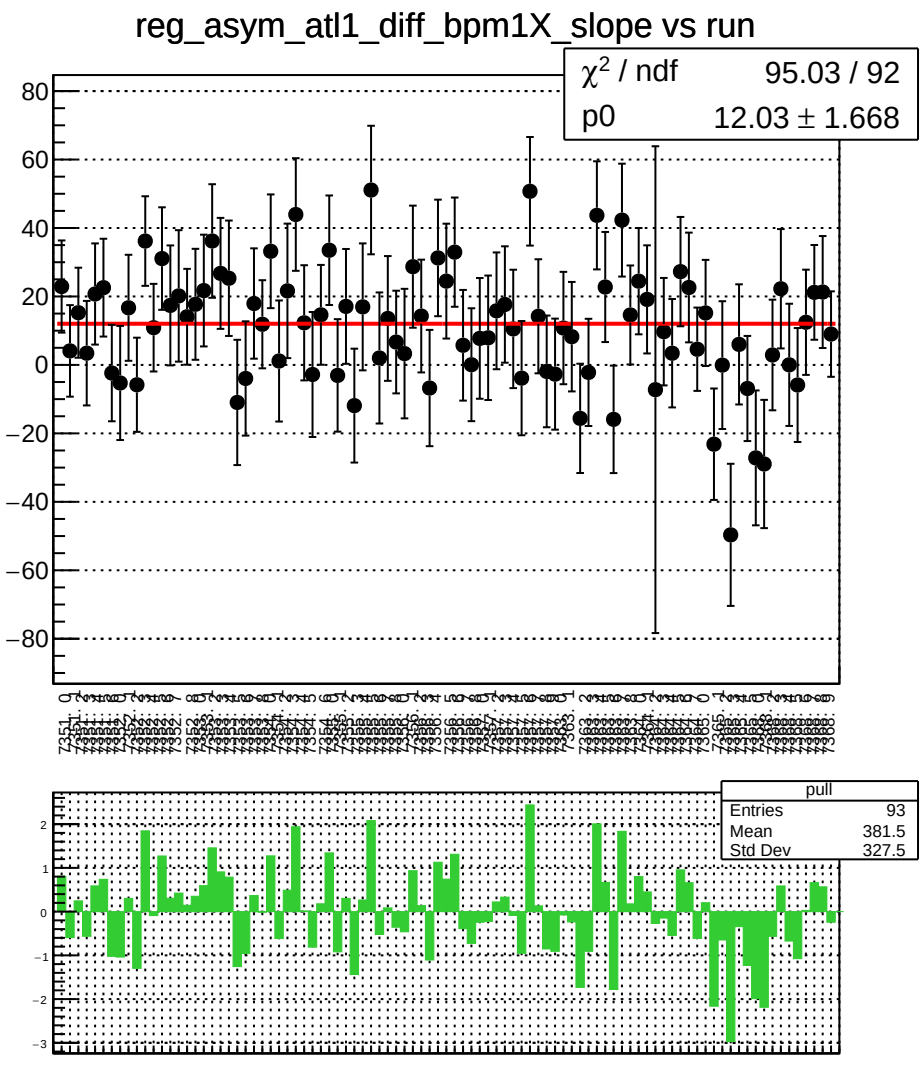

reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ² / ndf 621.5 / 92
p0 −36.1 ± 0.3541
pull
Entries 93
Mean 279.2
Std Dev 238.6
pull1D
Entries 93
Mean 0.1222
Std Dev 2.582

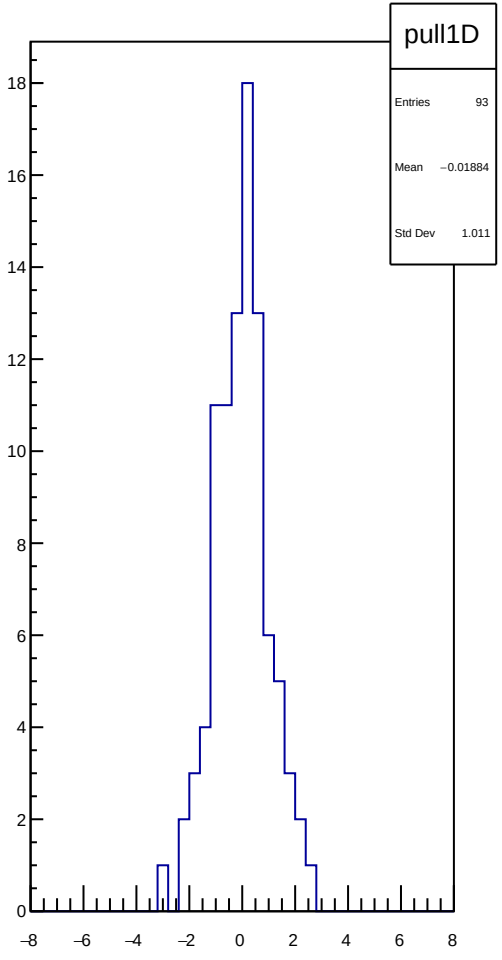

reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ² / ndf 268.2 / 92
p0 15.94 ± 0.3466
pull
Entries 93
Mean −88.66
Std Dev 110.8
pull1D
Entries 93
Mean 0.09036
Std Dev 1.696

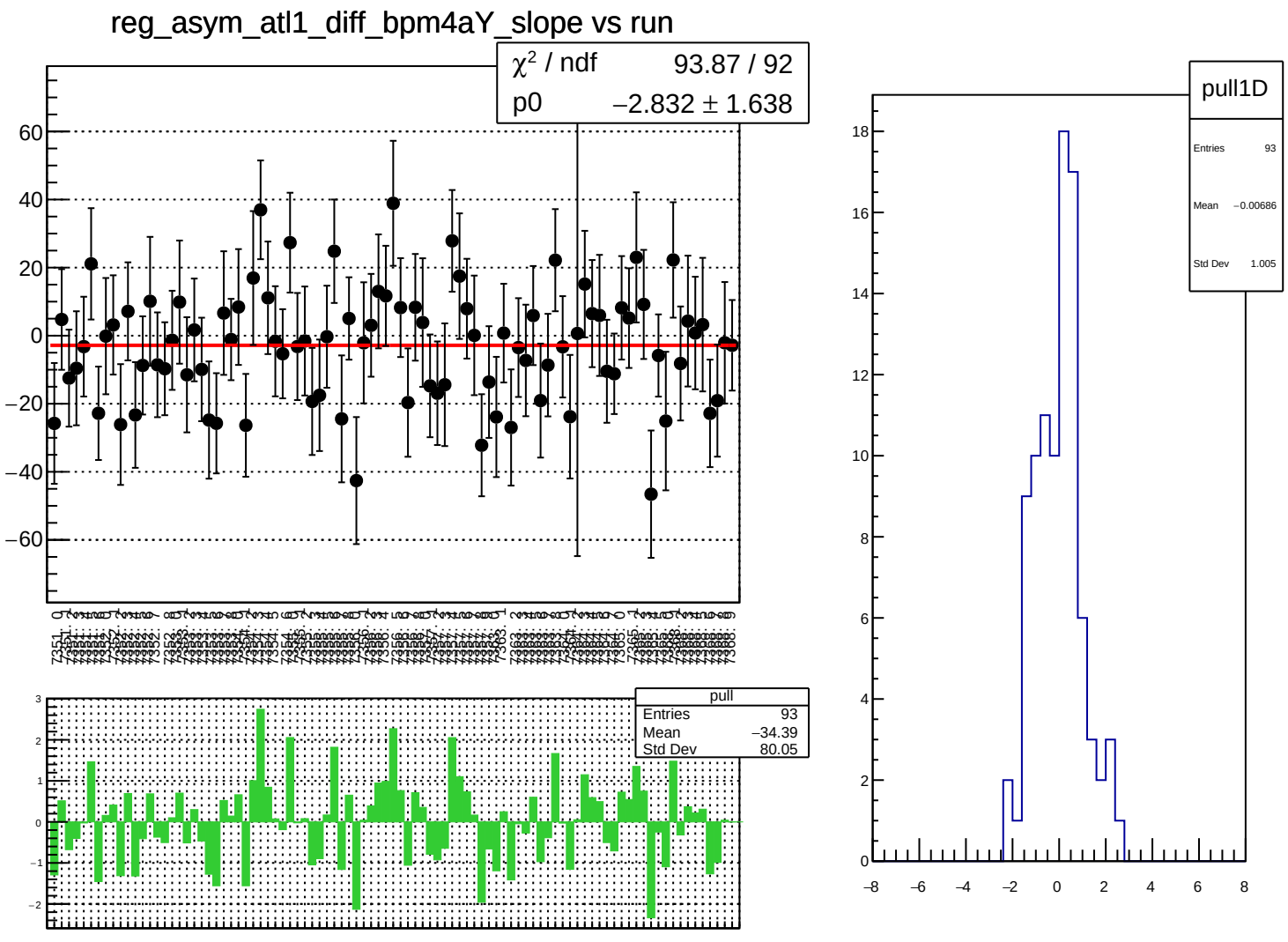

reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ² / ndf 420.1 / 92
p0 −14.96 ± 0.3525
pull
Entries 93
Mean 200.9
Std Dev 161.7
pull1D
Entries 93
Mean −0.1387
Std Dev 2.121

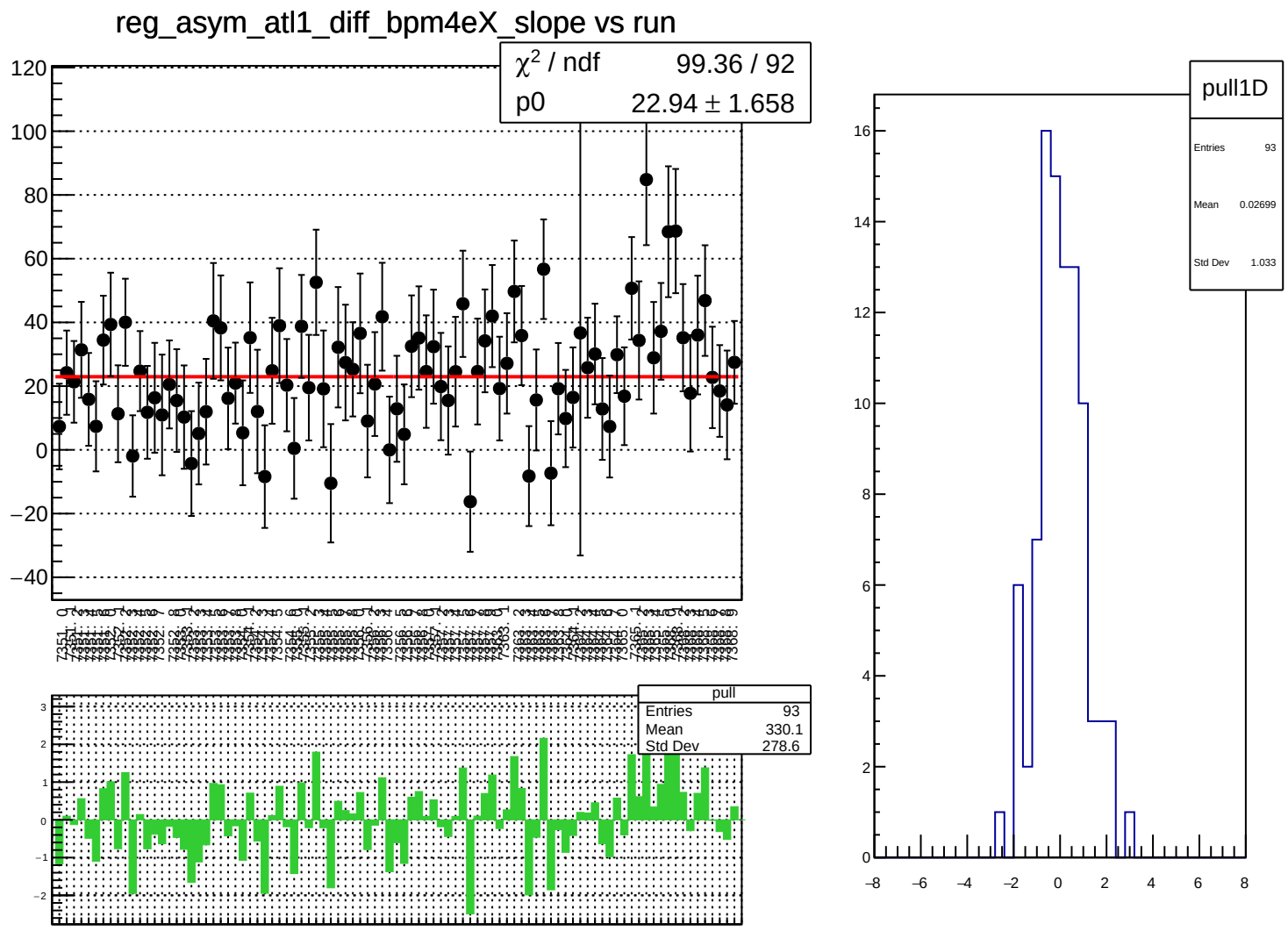

reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ² / ndf 197.3 / 92
p0 21.14 ± 0.3688
pull
Entries 93
Mean −260.5
Std Dev 289.6
pull1D
Entries 93
Mean −0.04346
Std Dev 1.456

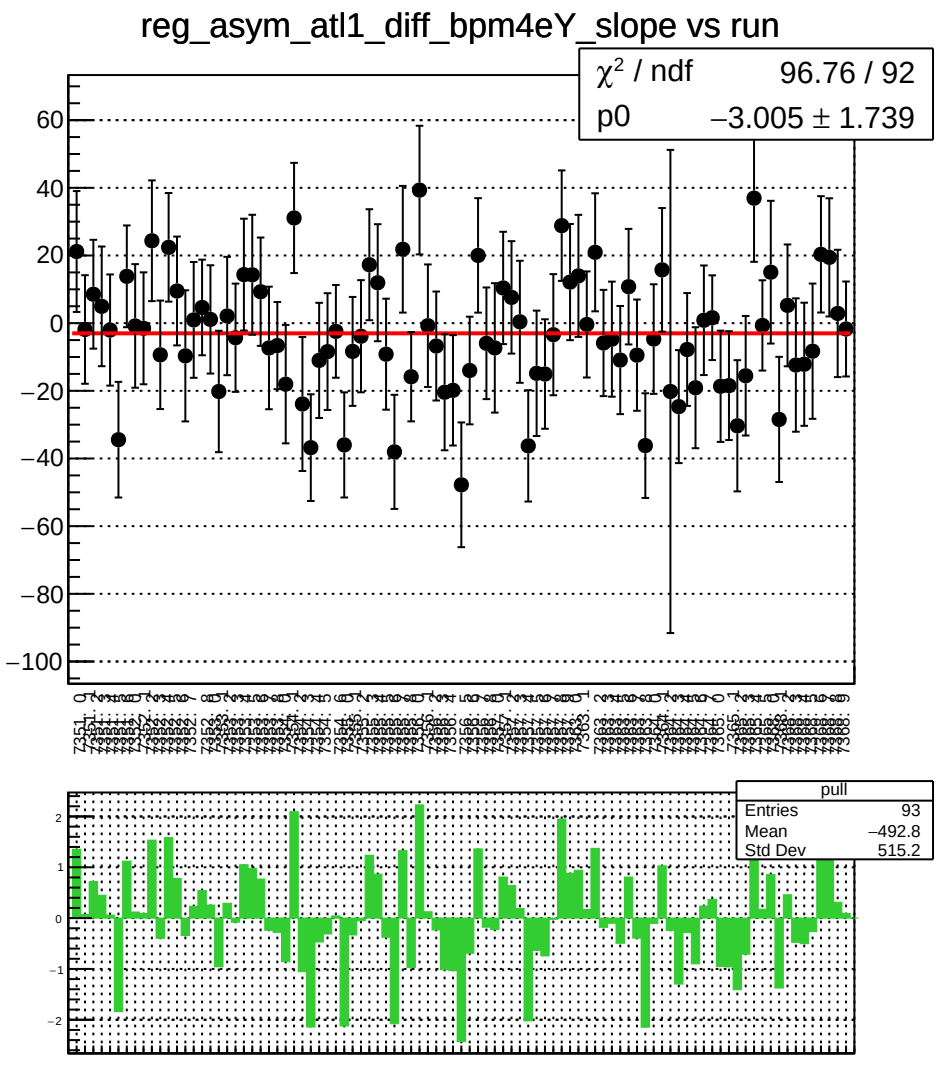

reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ² / ndf 60.42 / 92
p0 −0.1778 ± 0.01734
pull
Entries 93
Mean −581.7
Std Dev 614.9
pull1D
Entries 93
Mean −0.01575
Std Dev 0.8059

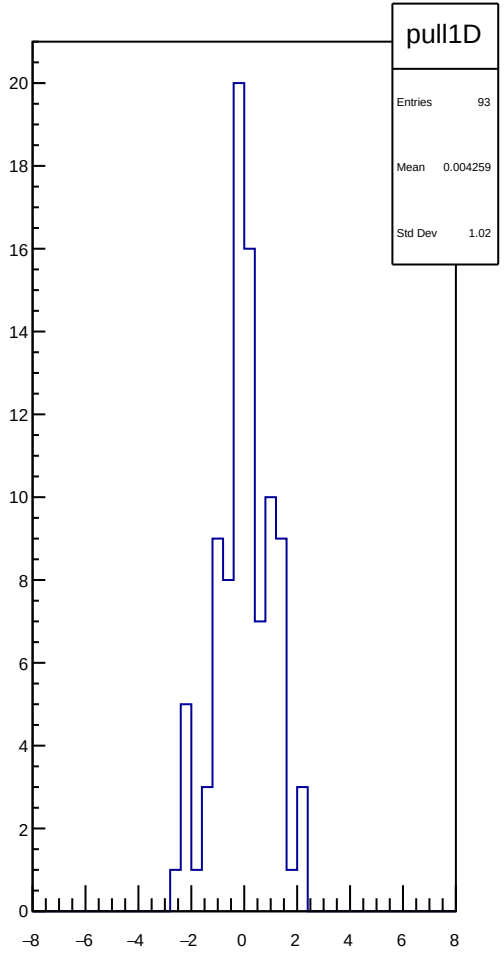

reg_asym_atl1_diff_bpm1X_slope vs run
χ² / ndf 95.03 / 92
p0 12.03 ± 1.668
pull
Entries 93
Mean 381.5
Std Dev 327.5

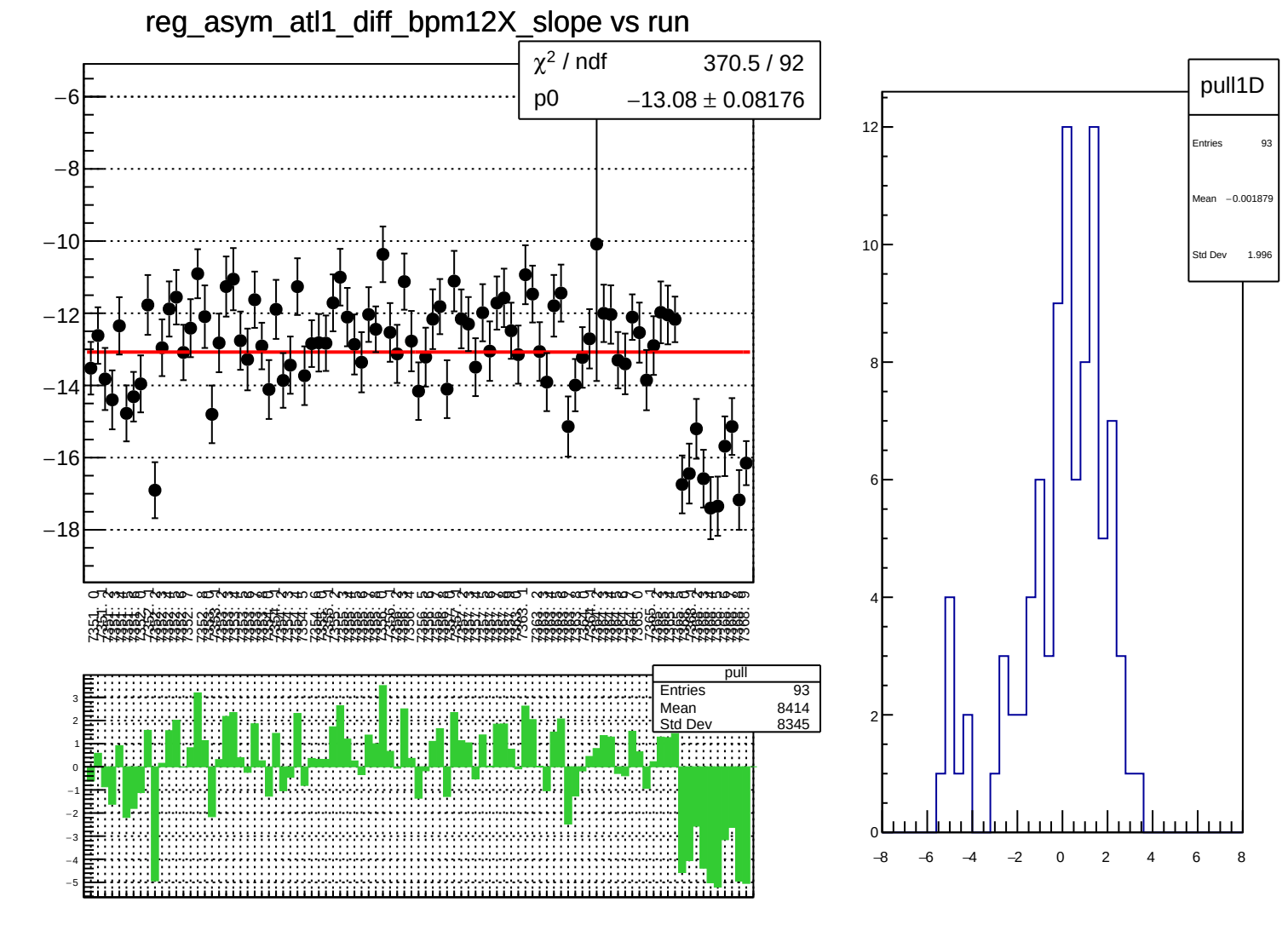

pull1D
Entries 93
Mean −0.01884
Std Dev 1.011

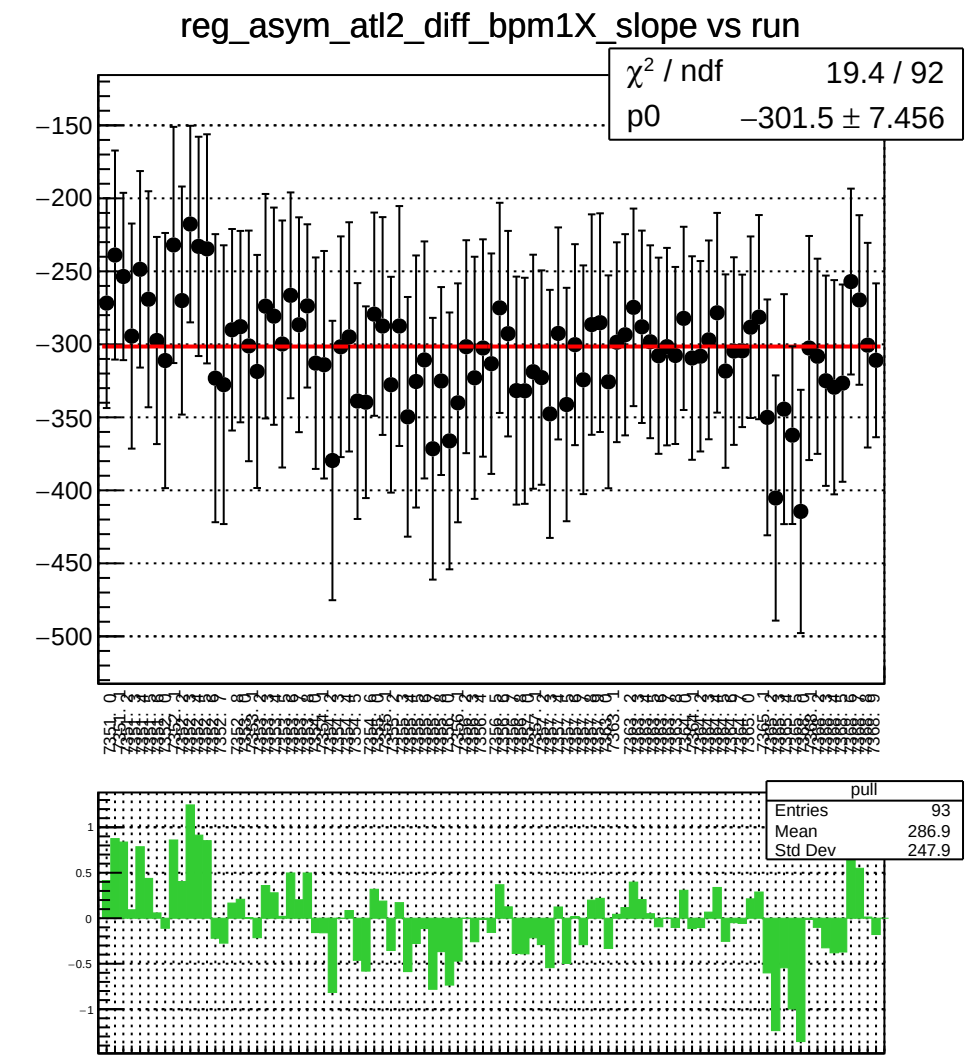

reg_asym_atl1_diff_bpm4aY_slope vs run
χ² / ndf 93.87 / 92
p0 −2.832 ± 1.638
pull
Entries 93
Mean −34.39
Std Dev 80.05
pull1D
Entries 93
Mean −0.00686
Std Dev 1.005

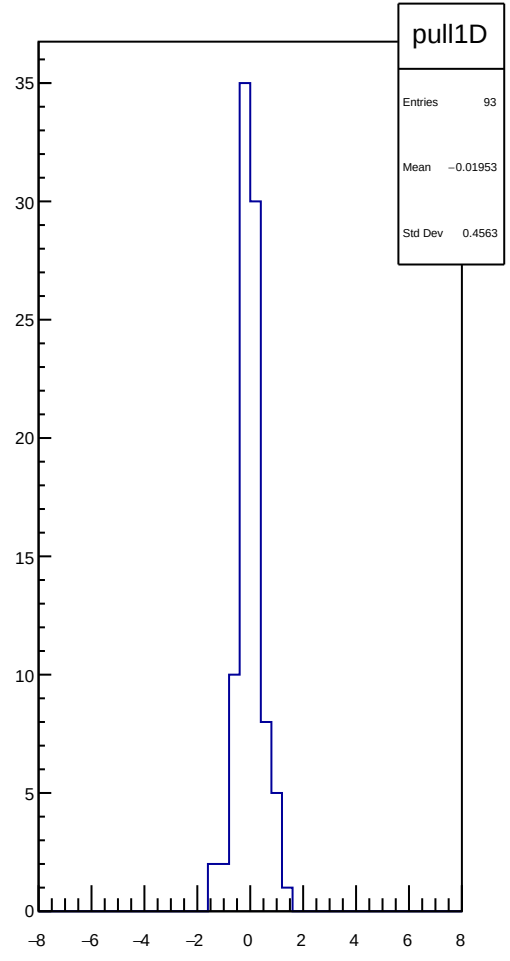

reg_asym_atl1_diff_bpm4eX_slope vs run
χ² / ndf 99.36 / 92
p0 22.94 ± 1.658
pull
Entries 93
Mean 330.1
Std Dev 278.6
pull1D
Entries 93
Mean 0.02699
Std Dev 1.033

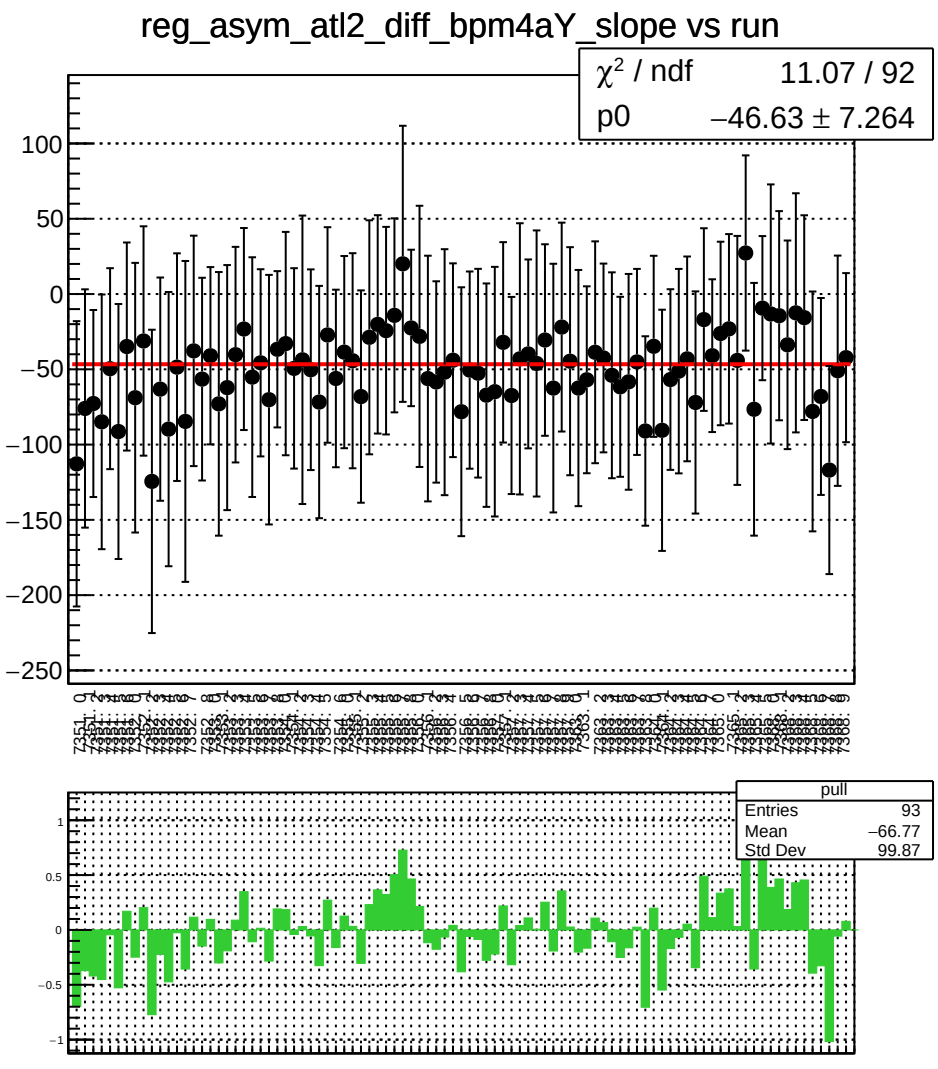

reg_asym_atl1_diff_bpm4eY_slope vs run
χ² / ndf 96.76 / 92
p0 −3.005 ± 1.739
pull
Entries 93
Mean −492.8
Std Dev 515.2

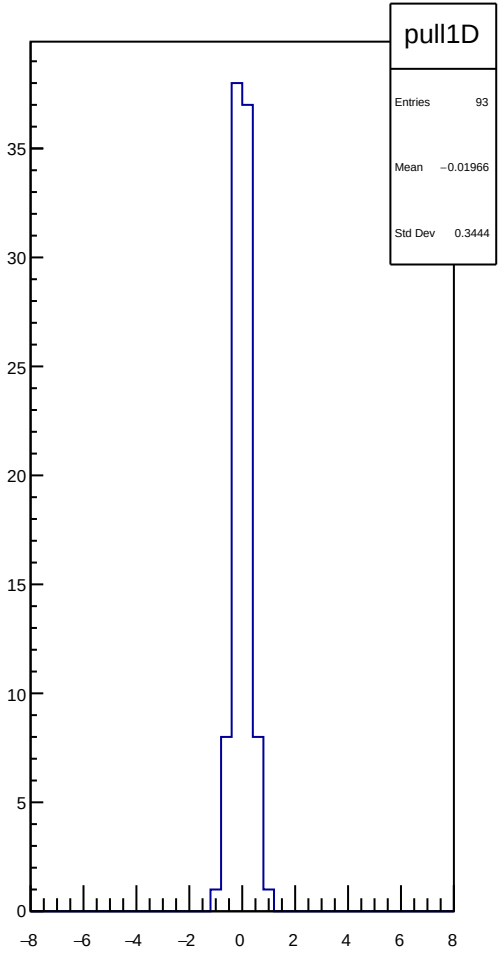

pull1D
Entries 93
Mean 0.004259
Std Dev 1.02

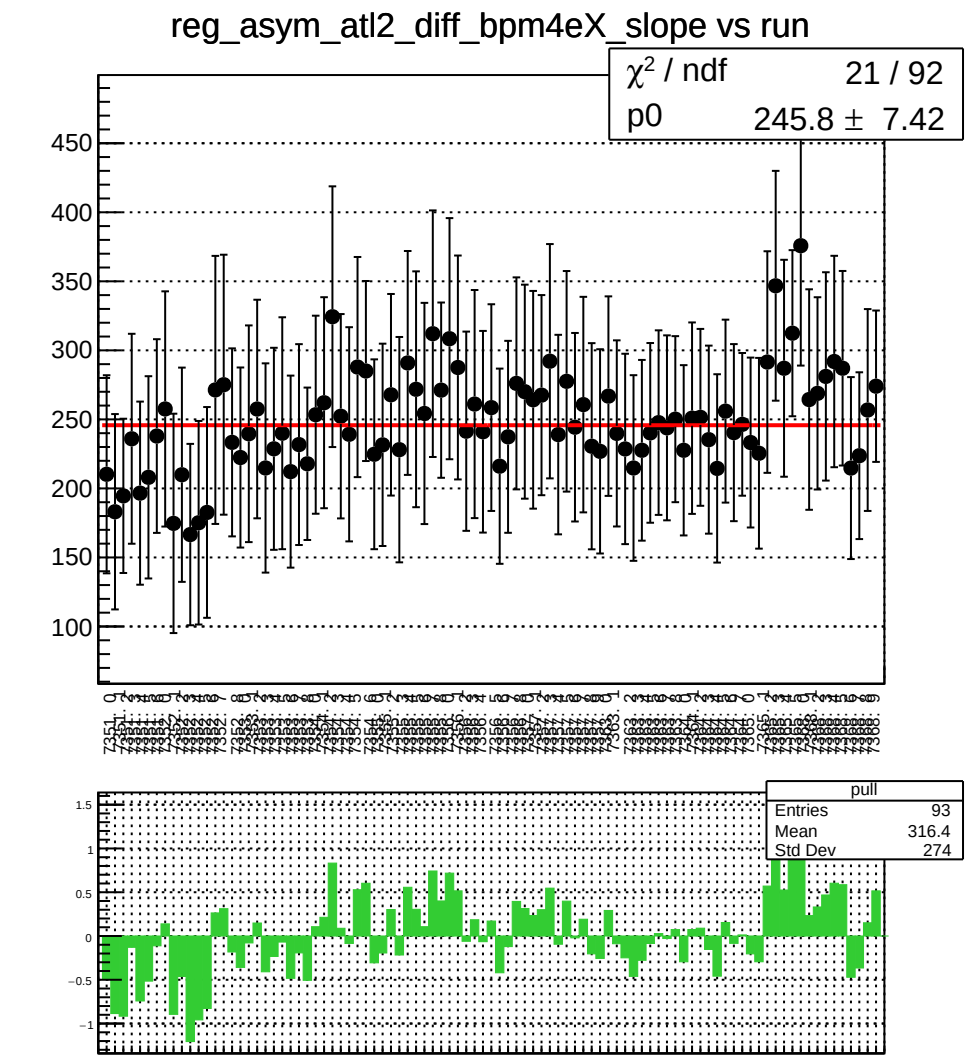

reg_asym_atl1_diff_bpm12X_slope vs run
χ² / ndf 370.5 / 92
p0 −13.08 ± 0.08176
pull
Entries 93
Mean 8414
Std Dev 8345
pull1D
Entries 93
Mean −0.001879
Std Dev 1.996

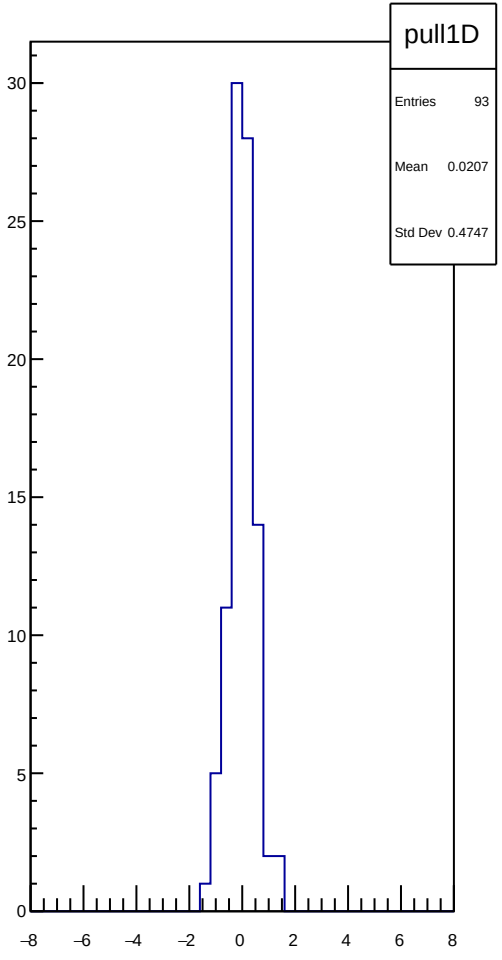

reg_asym_atl2_diff_bpm1X_slope vs run
χ² / ndf 19.4 / 92
p0 −301.5 ± 7.456
pull
Entries 93
Mean 286.9
Std Dev 247.9

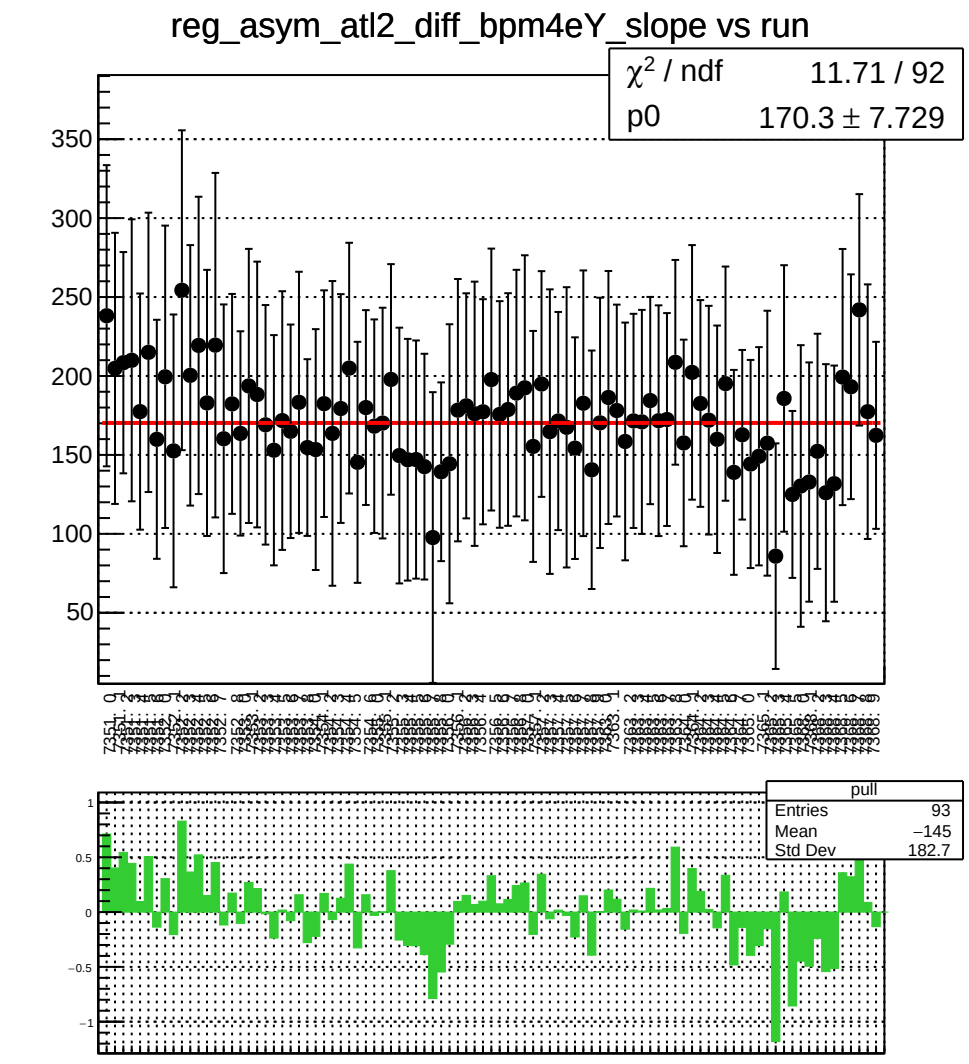

pull1D
Entries 93
Mean −0.01953
Std Dev 0.4563

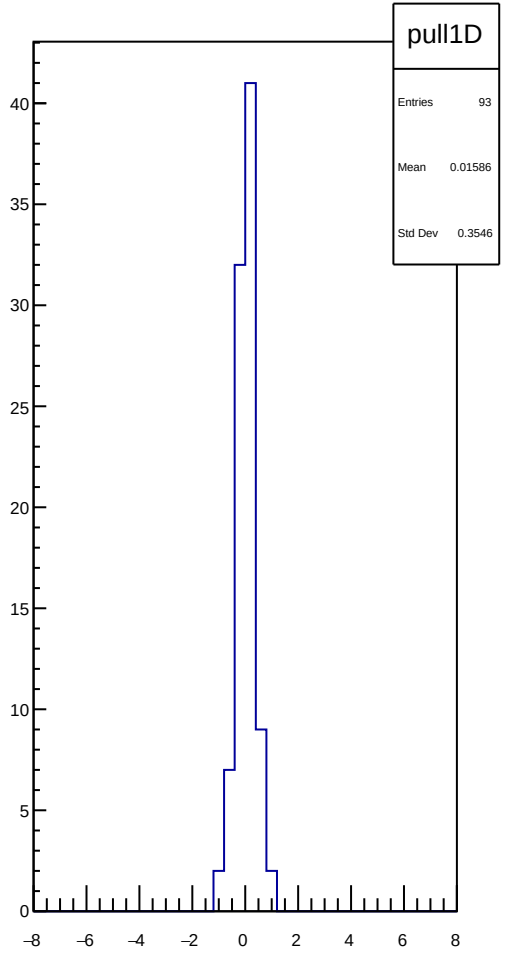

reg_asym_atl2_diff_bpm4aY_slope vs run
χ² / ndf 11.07 / 92
p0 −46.63 ± 7.264
pull
Entries 93
Mean −66.77
Std Dev 99.87

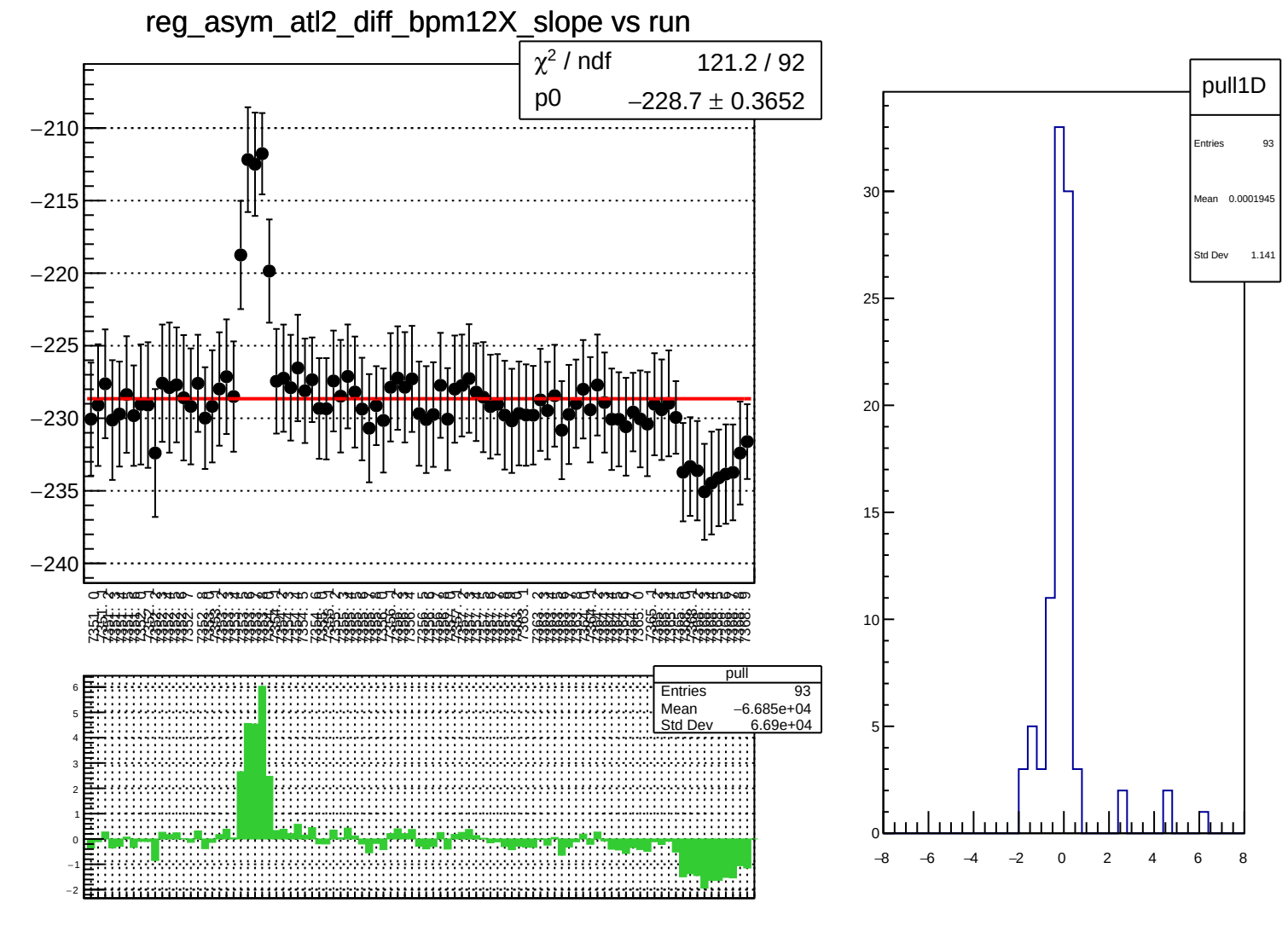

pull1D
Entries 93
Mean −0.01966
Std Dev 0.3444

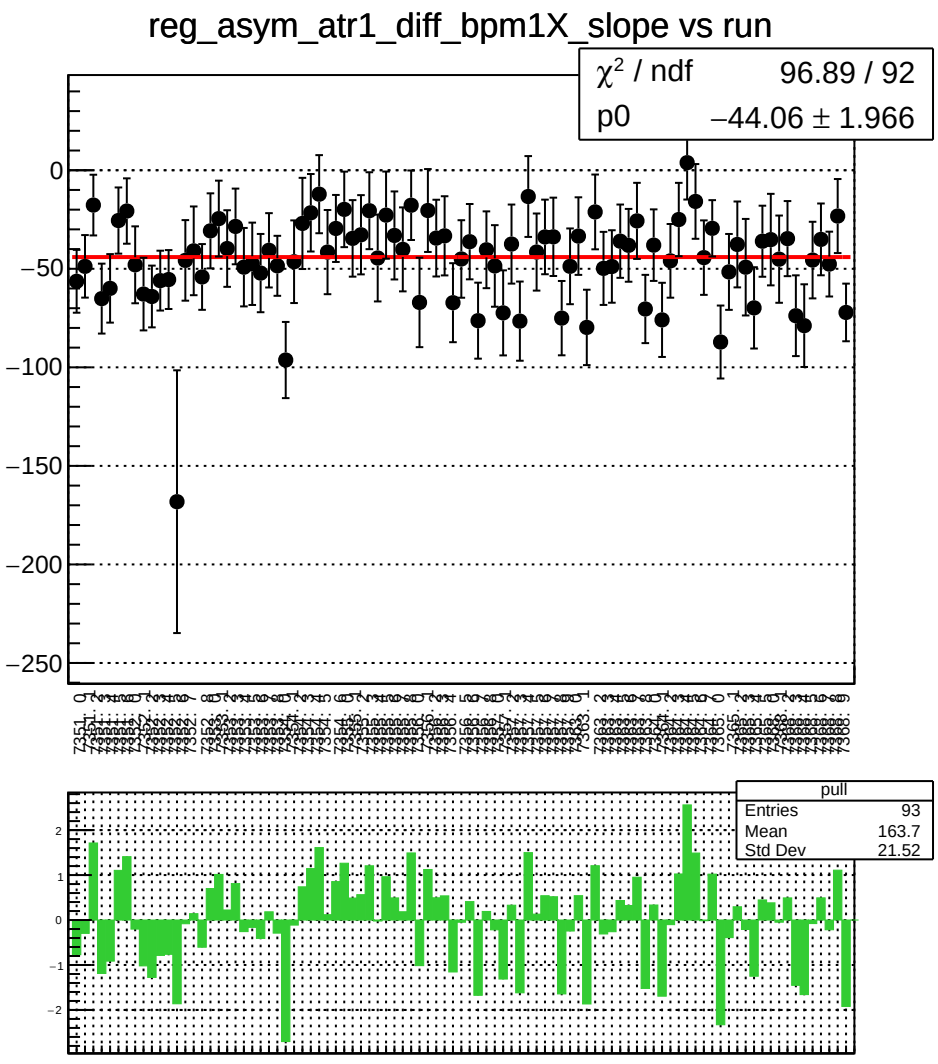

reg_asym_atl2_diff_bpm4eX_slope vs run
χ² / ndf 21 / 92
p0 245.8 ± 7.42
pull
Entries 93
Mean 316.4
Std Dev 274

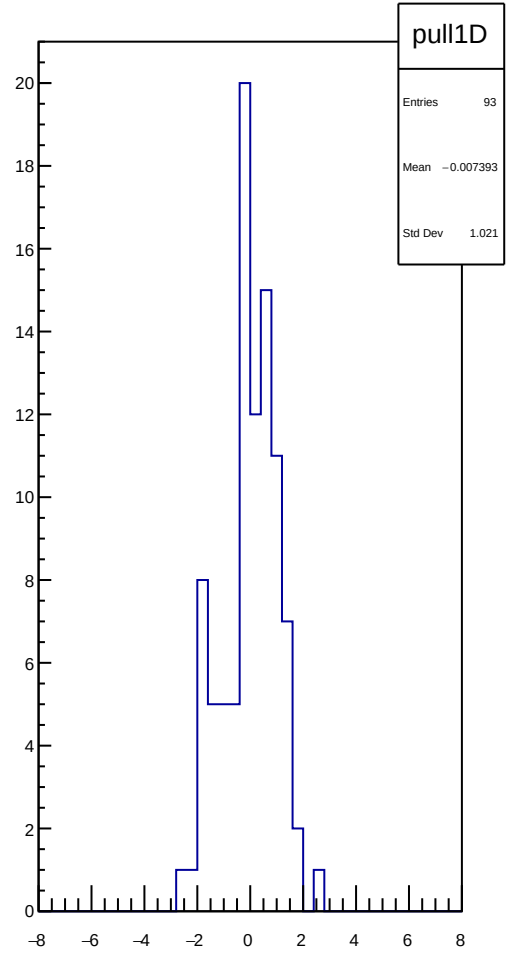

pull1D
Entries 93
Mean 0.0207
Std Dev 0.4747

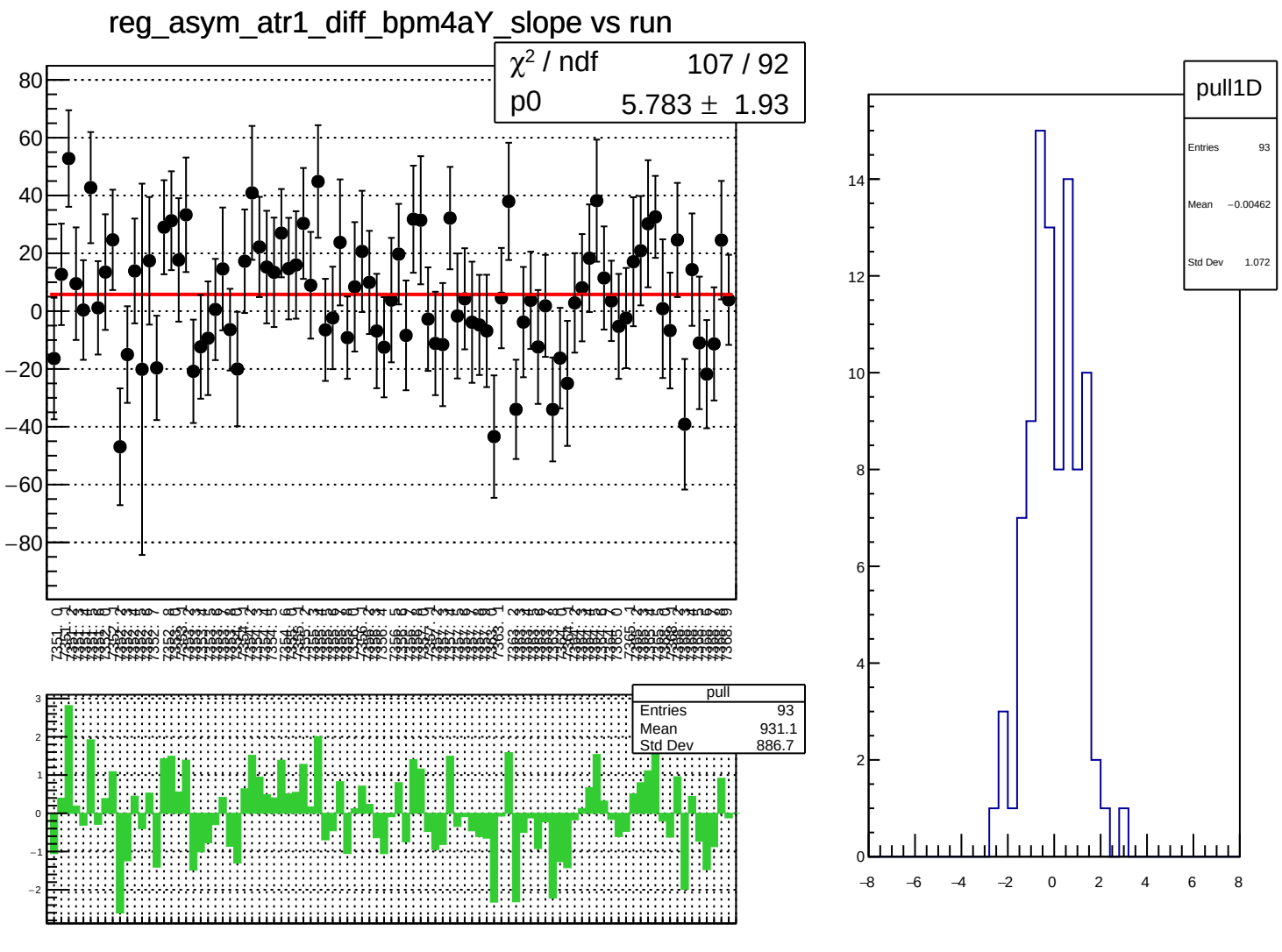

reg_asym_atl2_diff_bpm4eY_slope vs run
χ² / ndf 11.71 / 92
p0 170.3 ± 7.729
350
300
250
200
150
100
50
pull
Entries 93
Mean −145
Std Dev 182.7
1
0.5
0
−0.5
−1

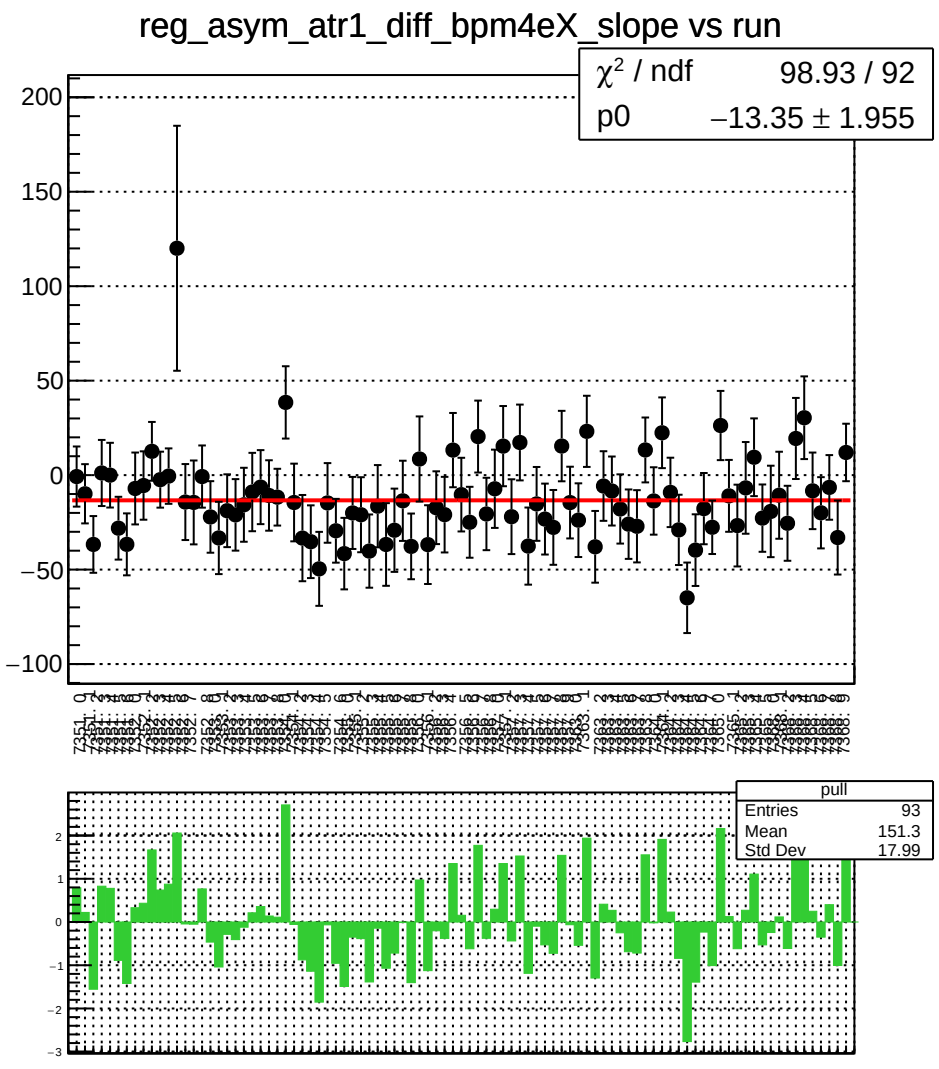

pull1D
Entries 93
Mean 0.01586
Std Dev 0.3546
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

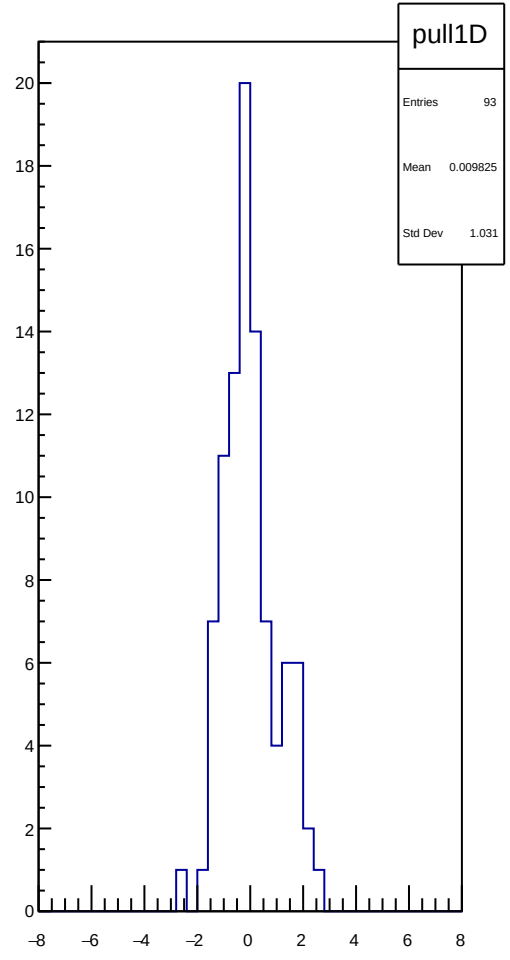

reg_asym_atl2_diff_bpm12X_slope vs run
χ² / ndf 121.2 / 92
p0 −228.7 ± 0.3652
−210
−215
−220
−225
−230
−235
−240
pull
Entries 93
Mean −6.685e+04
Std Dev 6.69e+04
6
5
4
3
2
1
0
−1
−2
pull1D
Entries 93
Mean 0.0001945
Std Dev 1.141
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

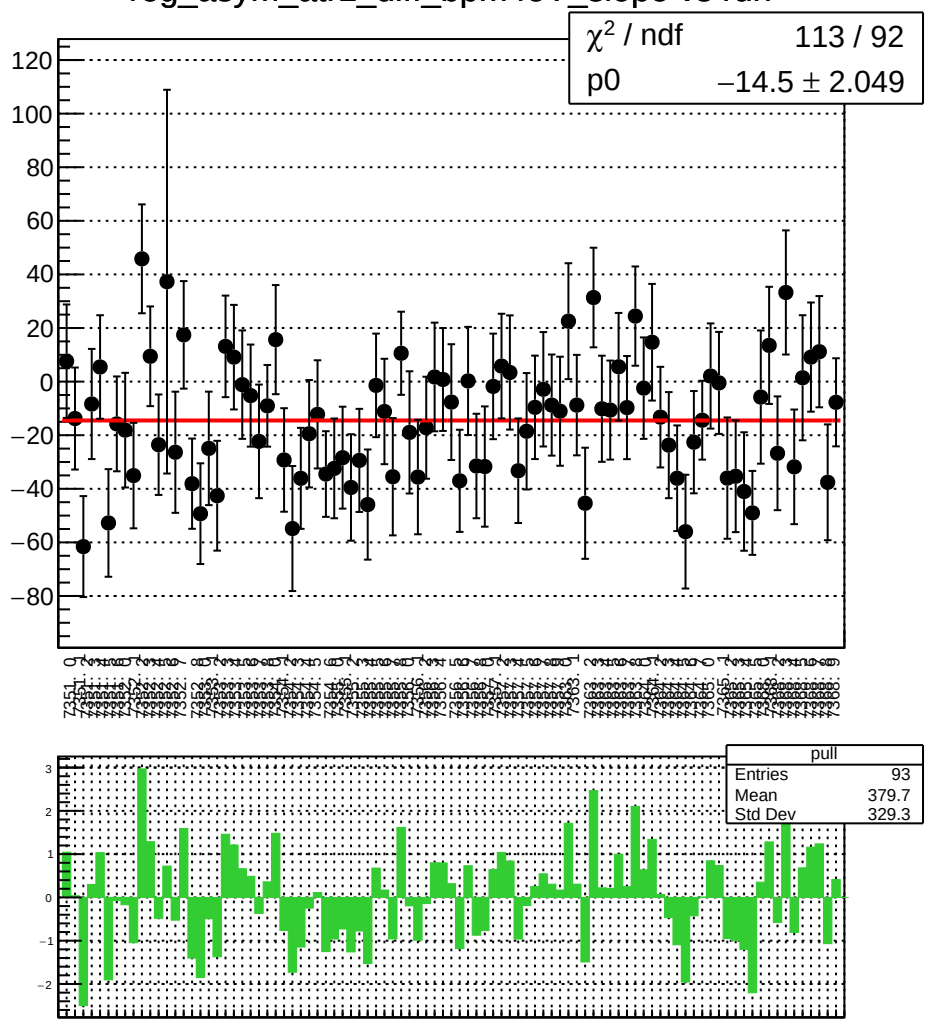

reg_asym_atr1_diff_bpm1X_slope vs run
χ² / ndf 96.89 / 92
p0 −44.06 ± 1.966
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean 163.7
Std Dev 21.52
2
1
0
−1
−2

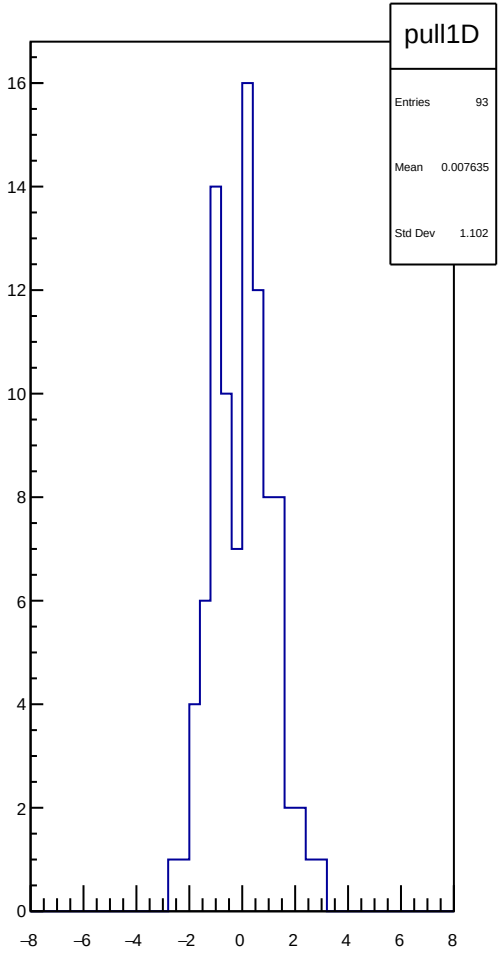

pull1D
Entries 93
Mean −0.007393
Std Dev 1.021
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

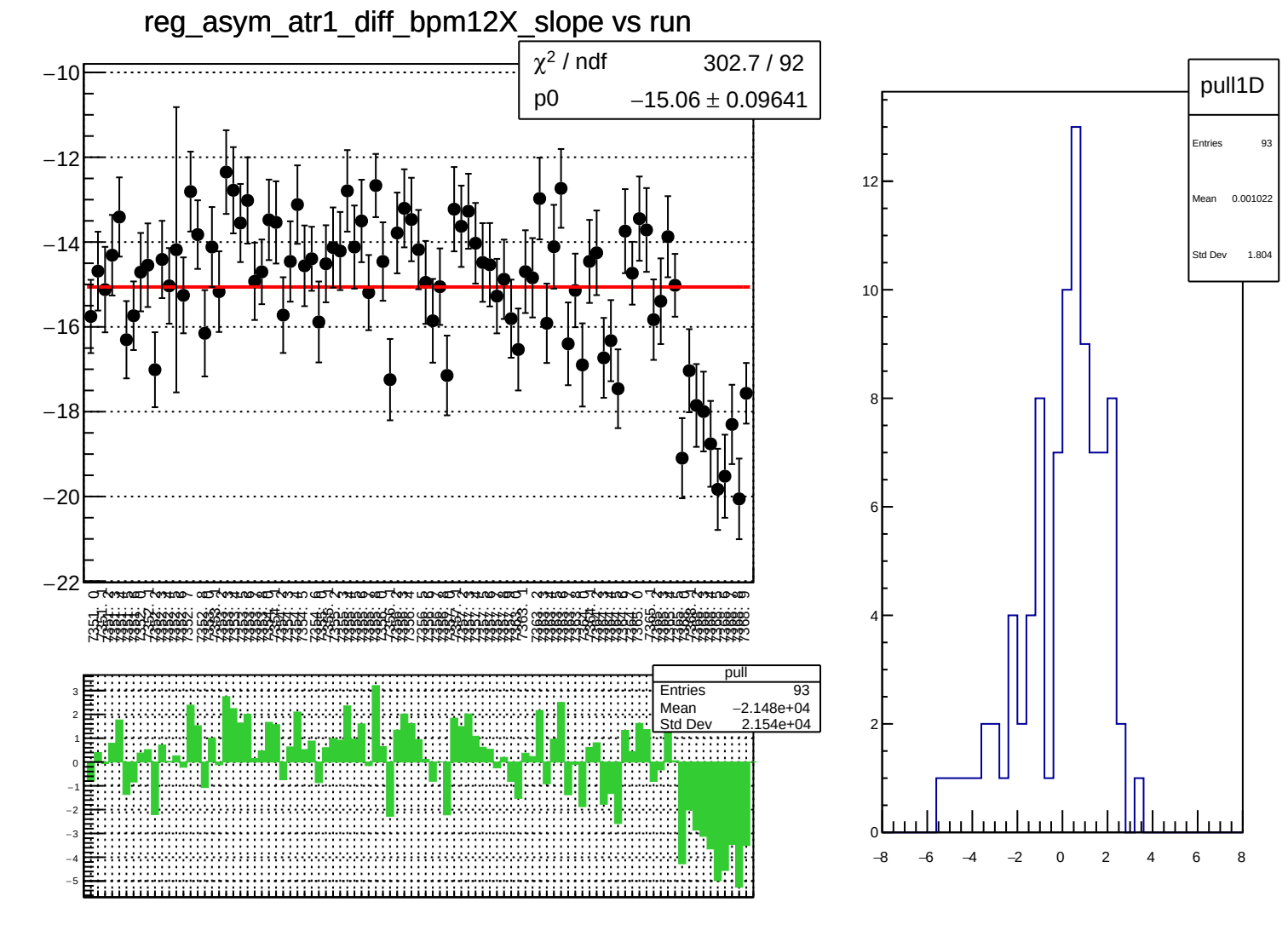

reg_asym_atr1_diff_bpm4aY_slope vs run
χ² / ndf 107 / 92
p0 5.783 ± 1.93
pull
Entries 93
Mean 931.1
Std Dev 886.7
pull1D
Entries 93
Mean −0.00462
Std Dev 1.072

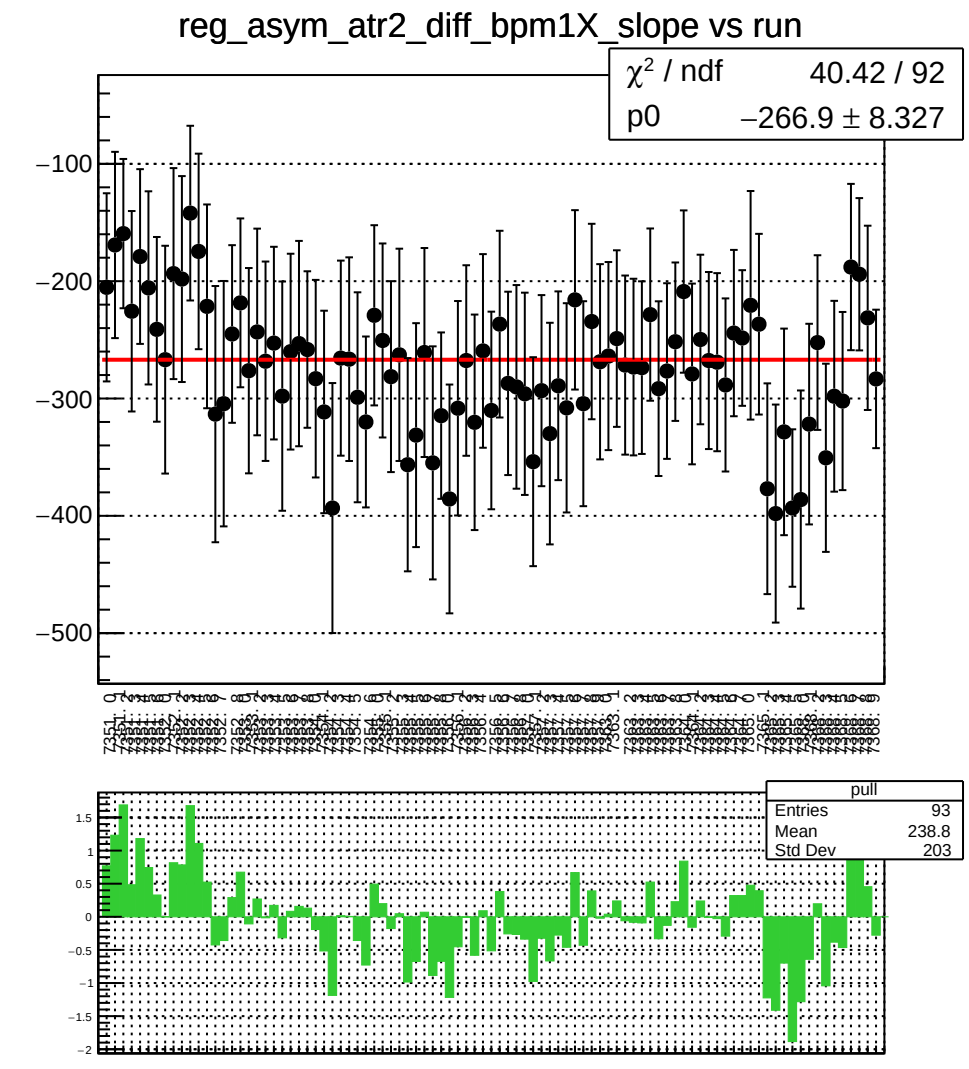

reg_asym_atr1_diff_bpm4eX_slope vs run
χ² / ndf 98.93 / 92
p0 −13.35 ± 1.955
pull
Entries 93
Mean 151.3
Std Dev 17.99

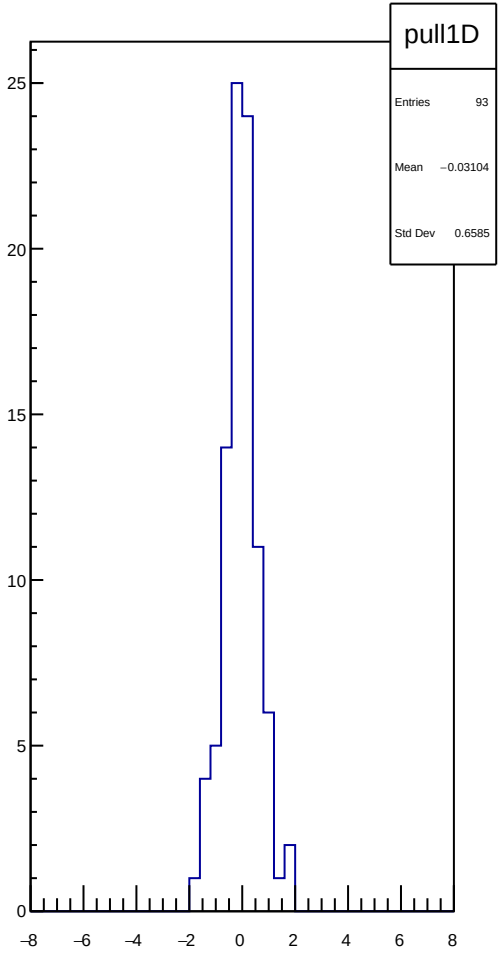

pull1D
Entries 93
Mean 0.009825
Std Dev 1.031

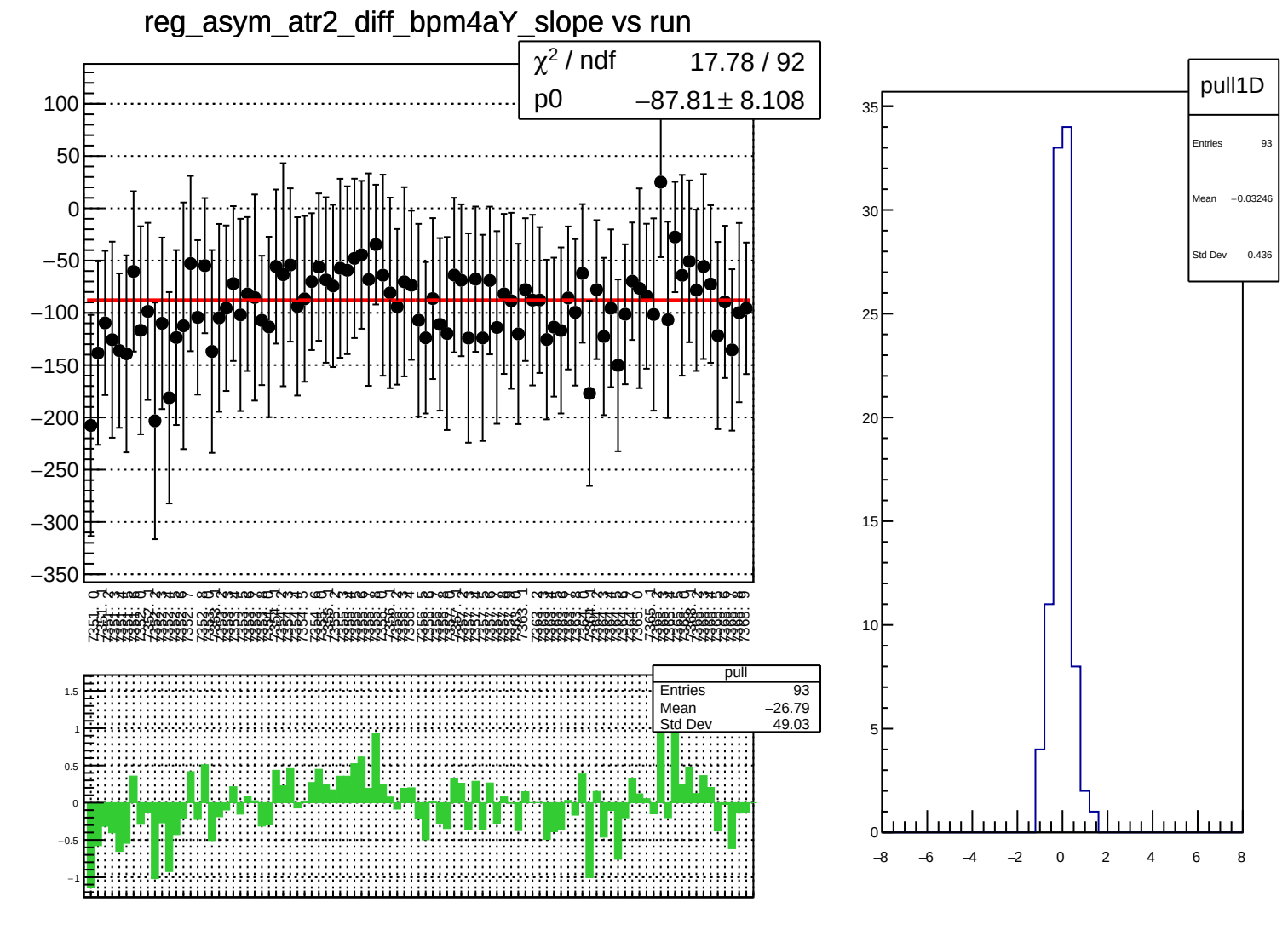

reg_asym_atr1_diff_bpm4eY_slope vs run
χ² / ndf 113 / 92
p0 −14.5 ± 2.049
pull
Entries 93
Mean 379.7
Std Dev 329.3

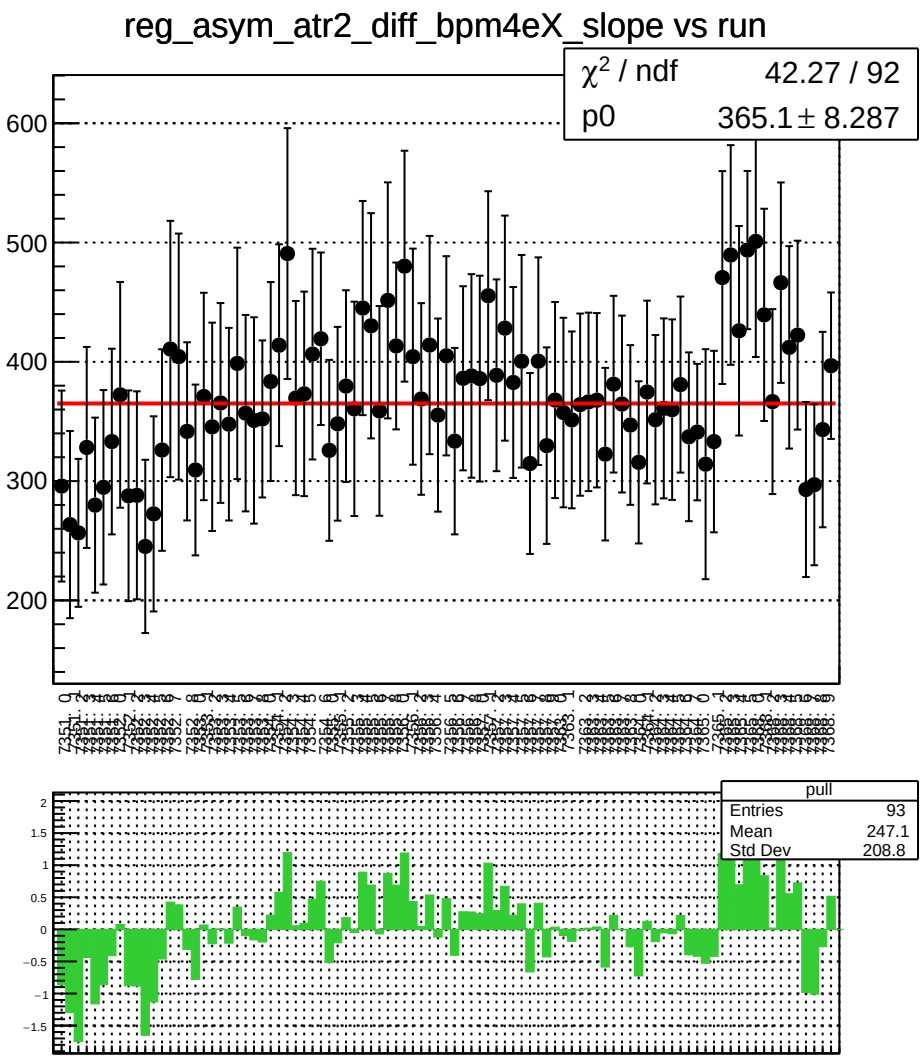

pull1D
Entries 93
Mean 0.007635
Std Dev 1.102

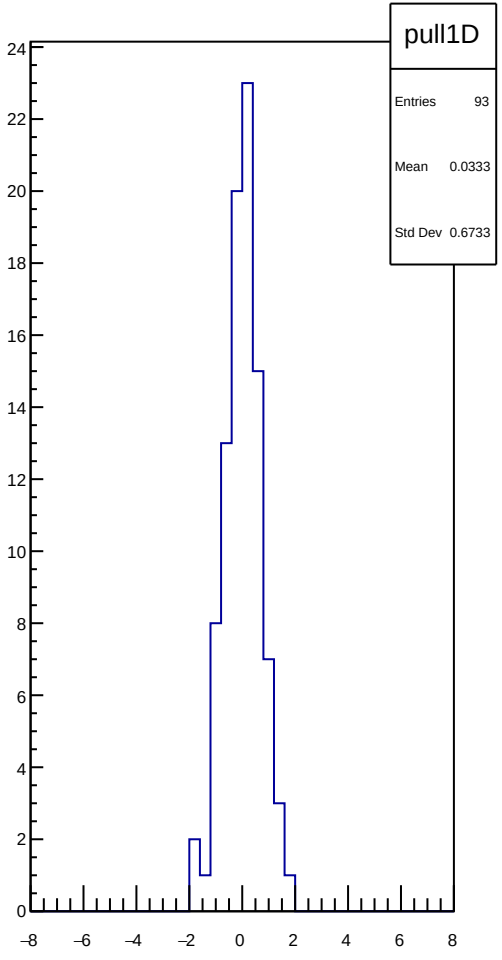

reg_asym_atr1_diff_bpm12X_slope vs run
χ² / ndf 302.7 / 92
p0 −15.06 ± 0.09641
pull
Entries 93
Mean −2.148e+04
Std Dev 2.154e+04
pull1D
Entries 93
Mean 0.001022
Std Dev 1.804

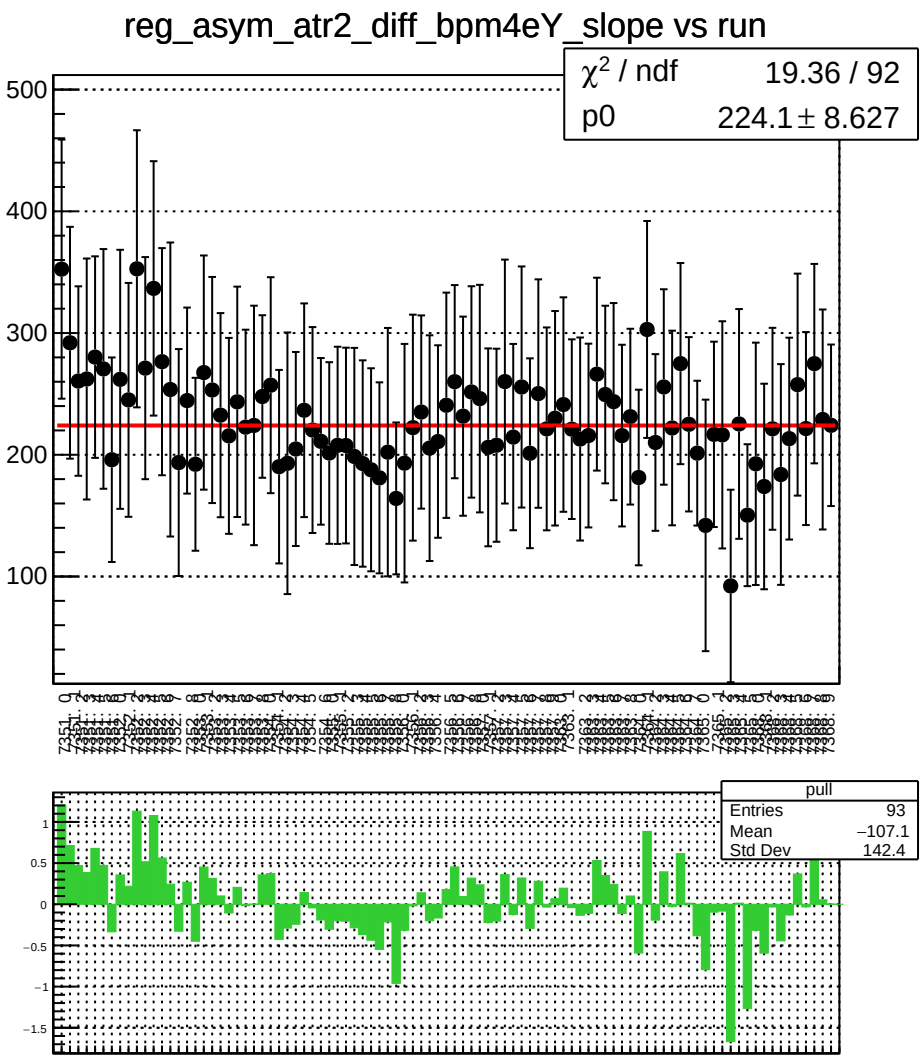

reg_asym_atr2_diff_bpm1X_slope vs run
χ² / ndf 40.42 / 92
p0 −266.9 ± 8.327
pull
Entries 93
Mean 238.8
Std Dev 203

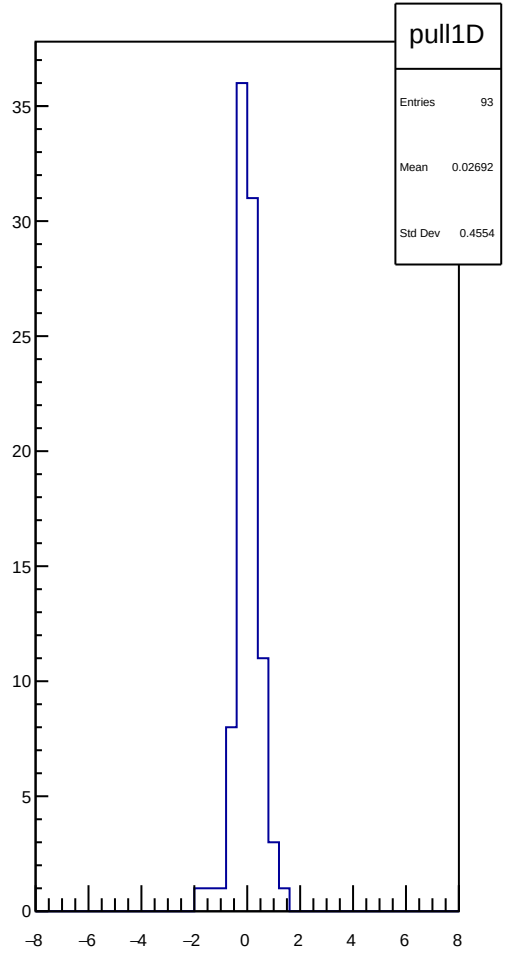

pull1D
Entries 93
Mean −0.03104
Std Dev 0.6585

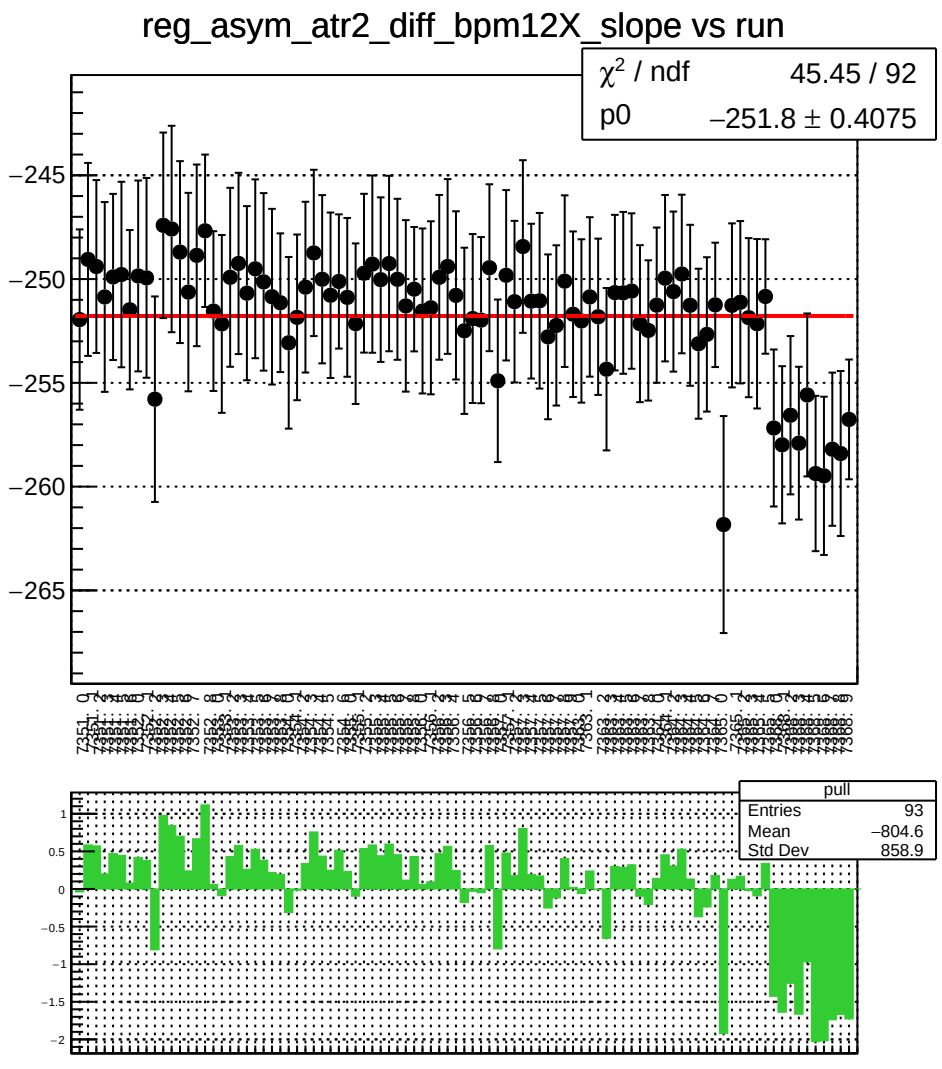

reg_asym_atr2_diff_bpm4aY_slope vs run
χ² / ndf 17.78 / 92
p0 −87.81 ± 8.108
pull
Entries 93
Mean −26.79
Std Dev 49.03
pull1D
Entries 93
Mean −0.03246
Std Dev 0.436

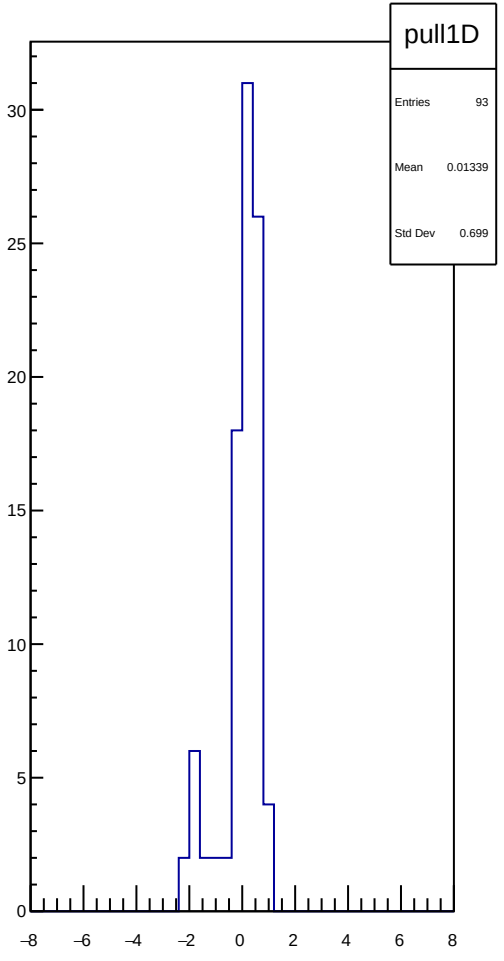

reg_asym_atr2_diff_bpm4eX_slope vs run
χ² / ndf 42.27 / 92
p0 365.1 ± 8.287
600
500
400
300
200
pull
Entries 93
Mean 247.1
Std Dev 208.8
2
1.5
1
0.5
0
−0.5
−1
−1.5

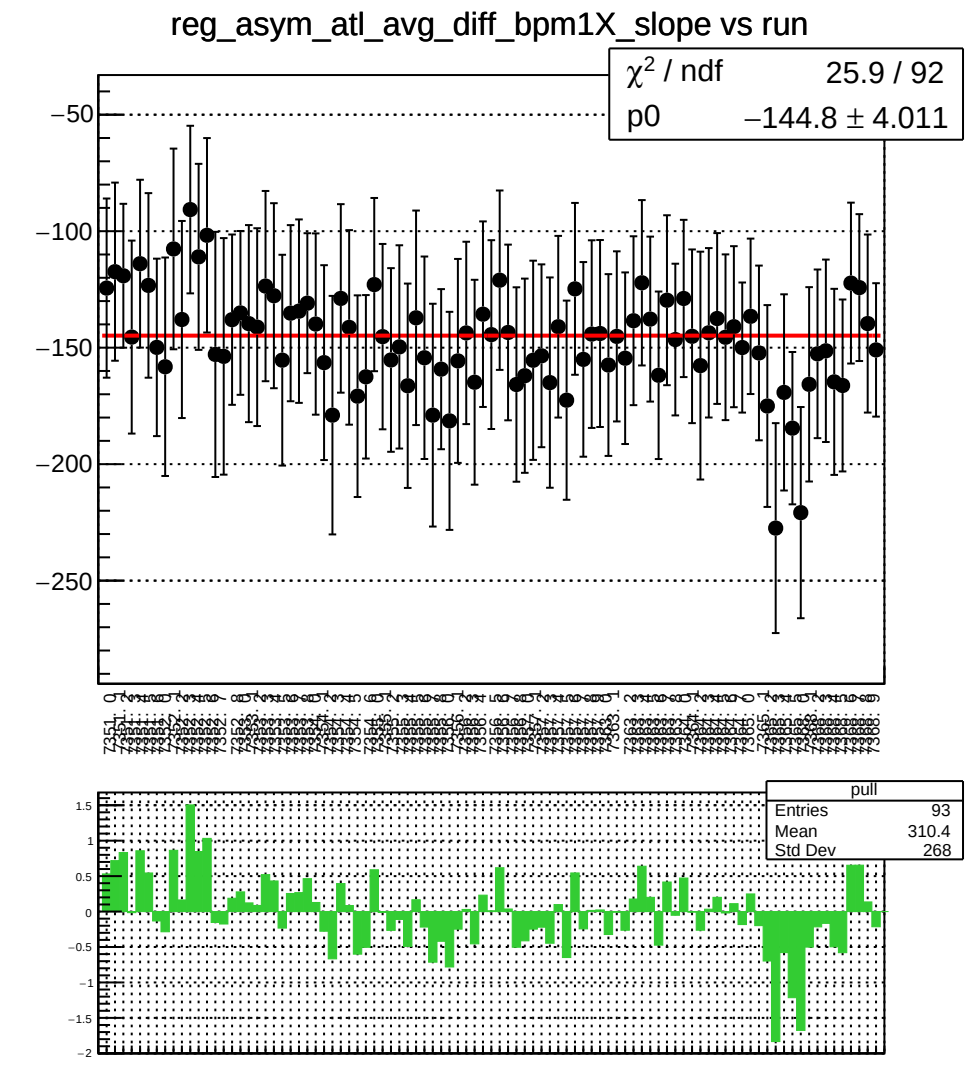

pull1D
Entries 93
Mean 0.0333
Std Dev 0.6733
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

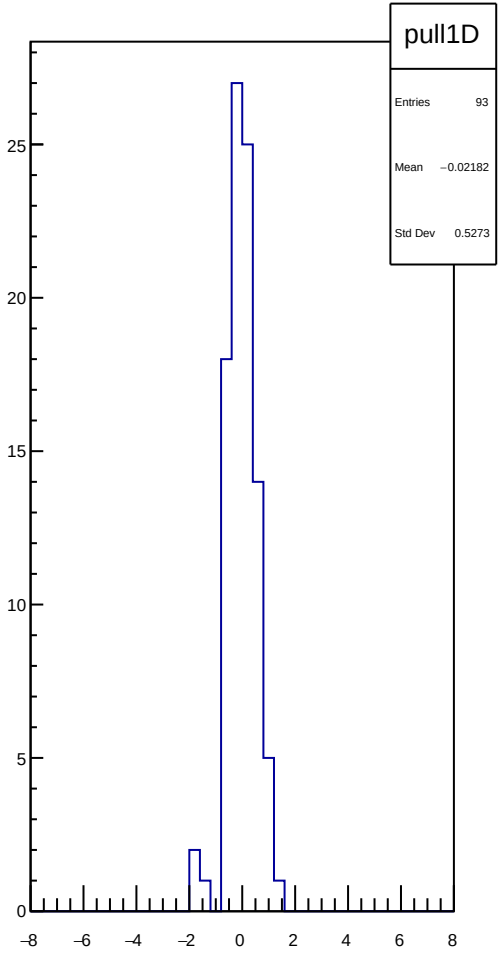

reg_asym_atr2_diff_bpm4eY_slope vs run
χ² / ndf 19.36 / 92
p0 224.1 ± 8.627
pull
Entries 93
Mean −107.1
Std Dev 142.4

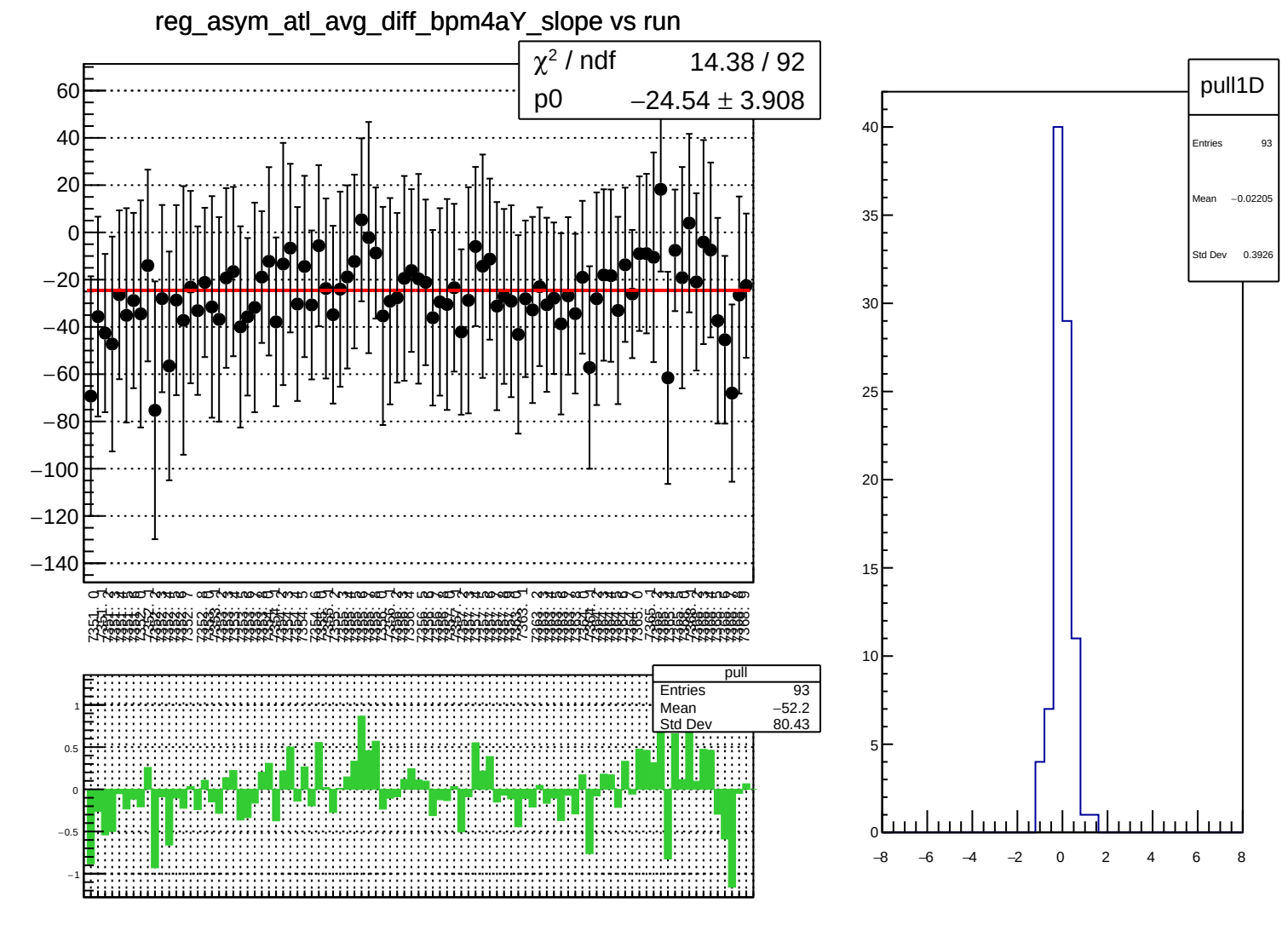

pull1D
Entries 93
Mean 0.02692
Std Dev 0.4554

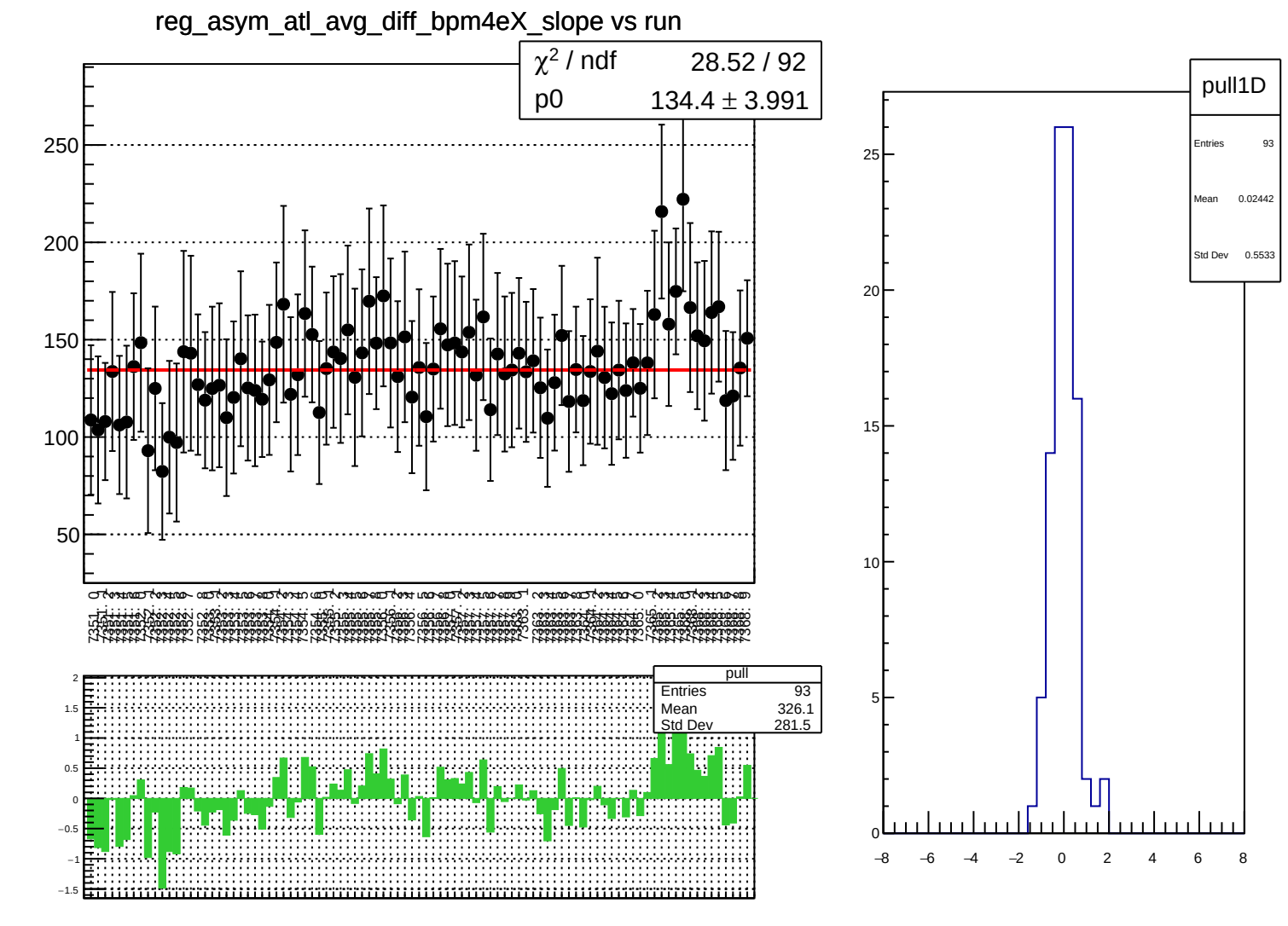

reg_asym_atr2_diff_bpm12X_slope vs run
χ² / ndf 45.45 / 92
p0 −251.8 ± 0.4075
−245
−250
−255
−260
−265
pull
Entries 93
Mean −804.6
Std Dev 858.9
1
0.5
0
−0.5
−1
−1.5
−2

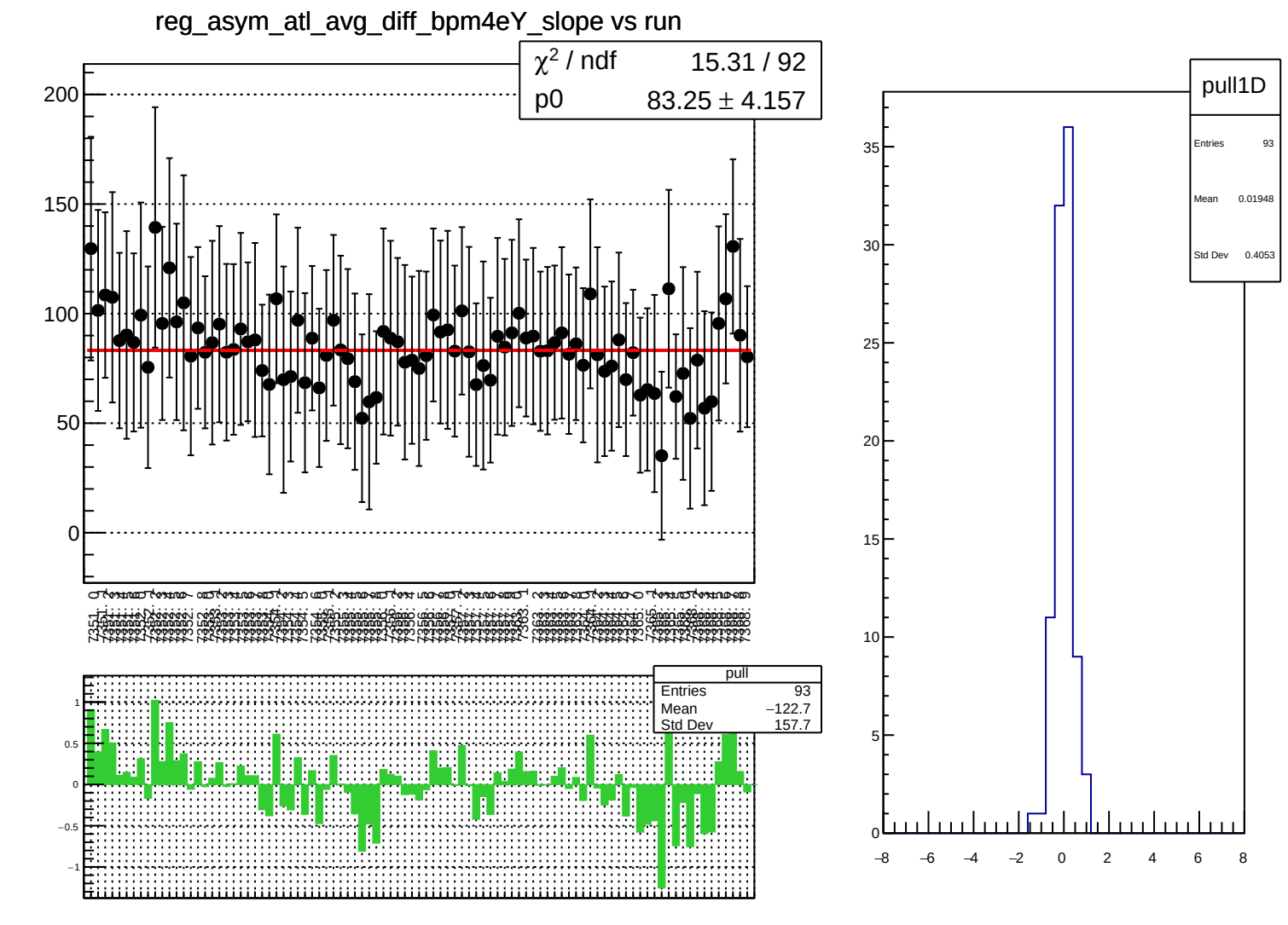

pull1D
Entries 93
Mean 0.01339
Std Dev 0.699
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

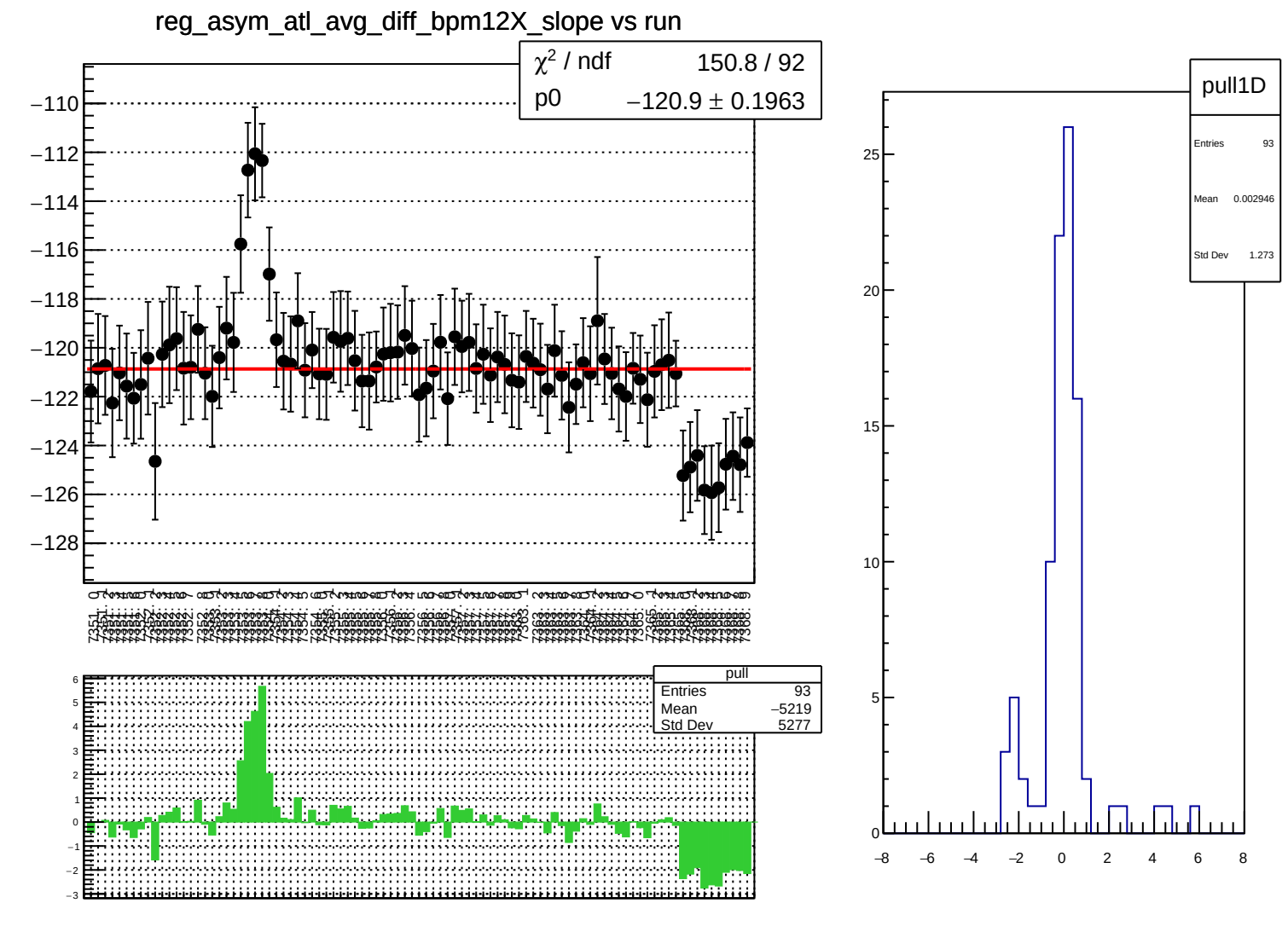

reg_asym_atl_avg_diff_bpm1X_slope vs run
χ² / ndf 25.9 / 92
p0 −144.8 ± 4.011
−50
−100
−150
−200
−250
pull
Entries 93
Mean 310.4
Std Dev 268
1.5
1
0.5
0
−0.5
−1
−1.5
−2

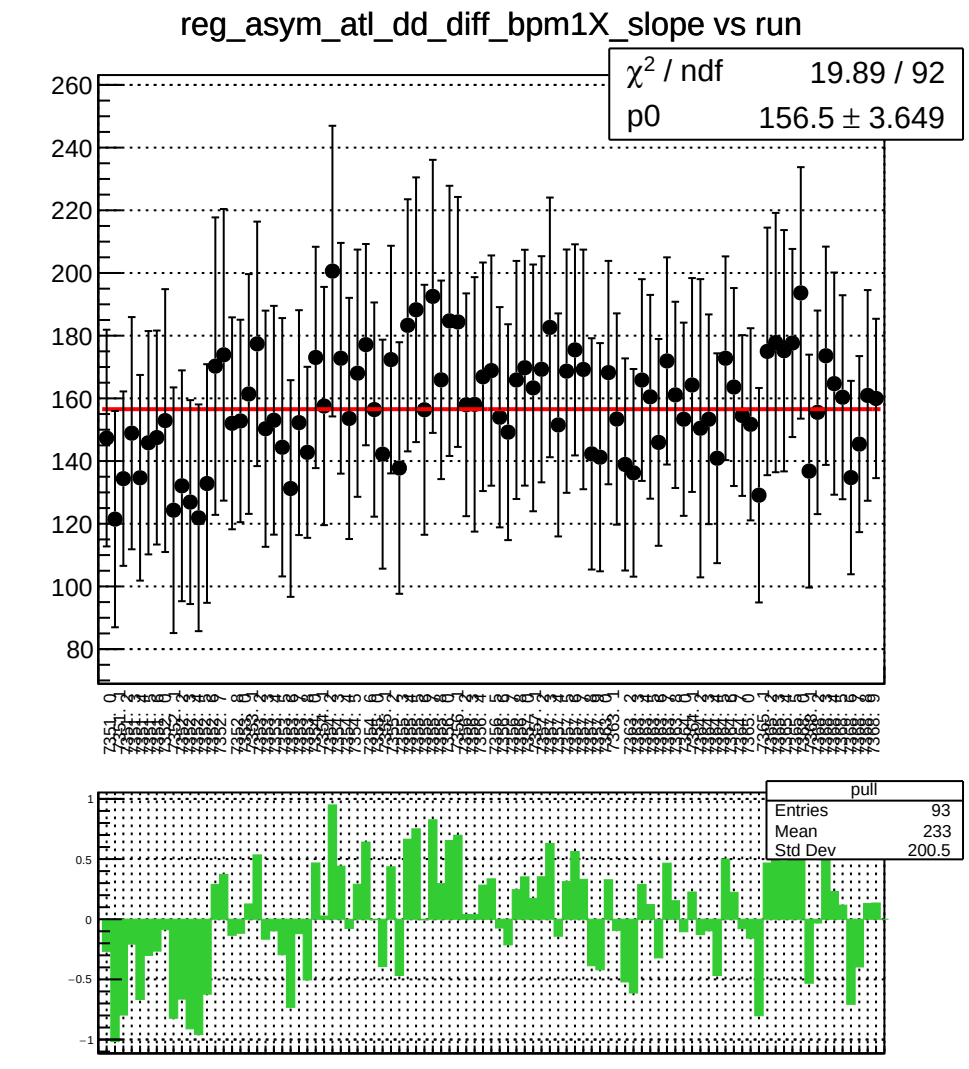

pull1D
Entries 93
Mean −0.02182
Std Dev 0.5273
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

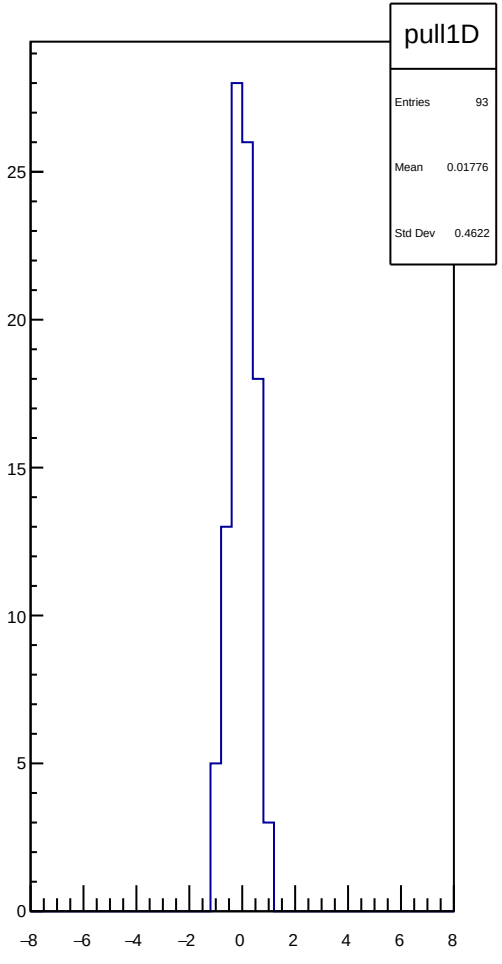

reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.38 / 92
p0 −24.54 ± 3.908
pull
Entries 93
Mean −52.2
Std Dev 80.43
pull1D
Entries 93
Mean −0.02205
Std Dev 0.3926

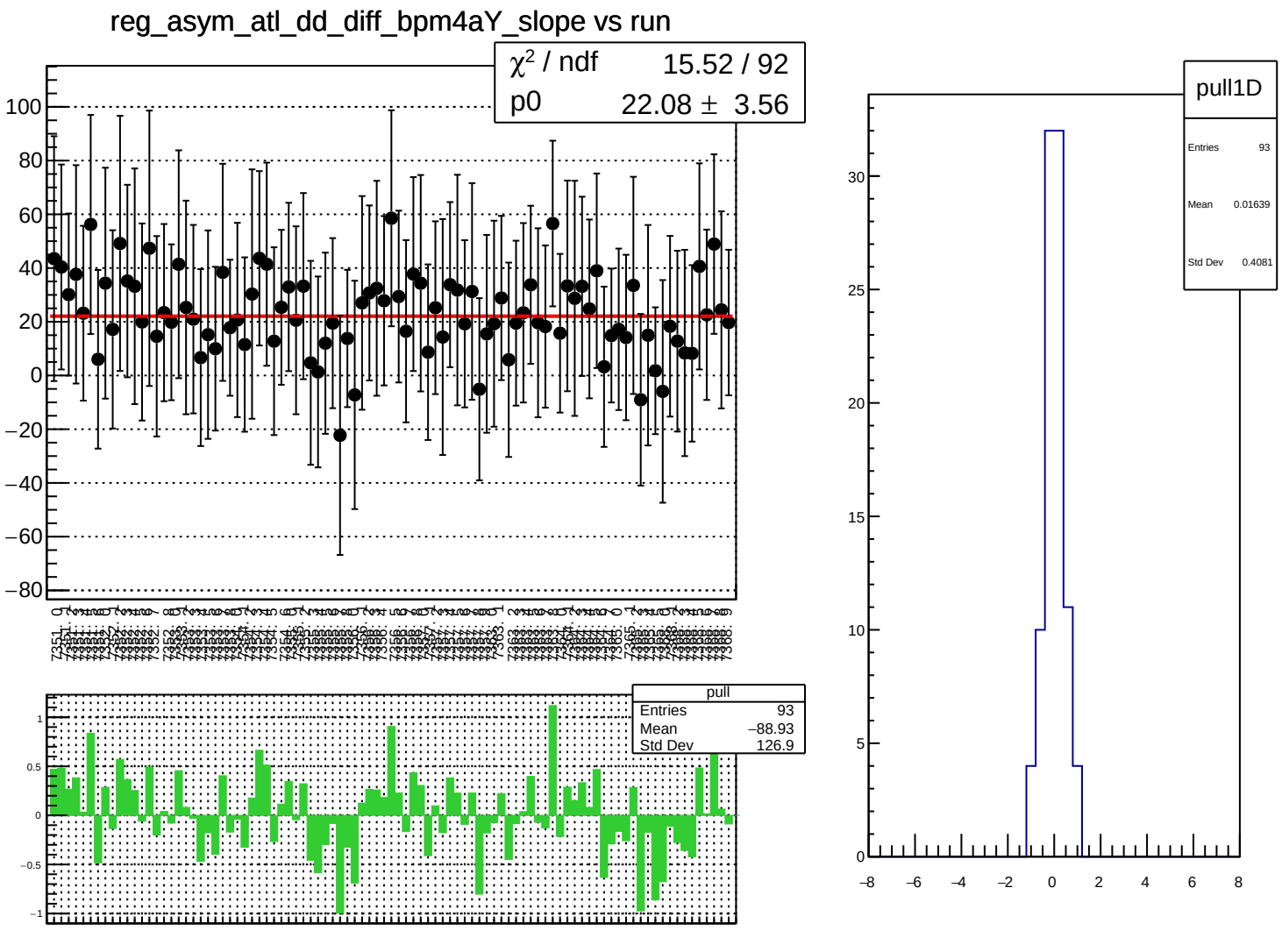

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ² / ndf 28.52 / 92
p0 134.4 ± 3.991
250
200
150
100
50
pull
Entries 93
Mean 326.1
Std Dev 281.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02442
Std Dev 0.5533
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

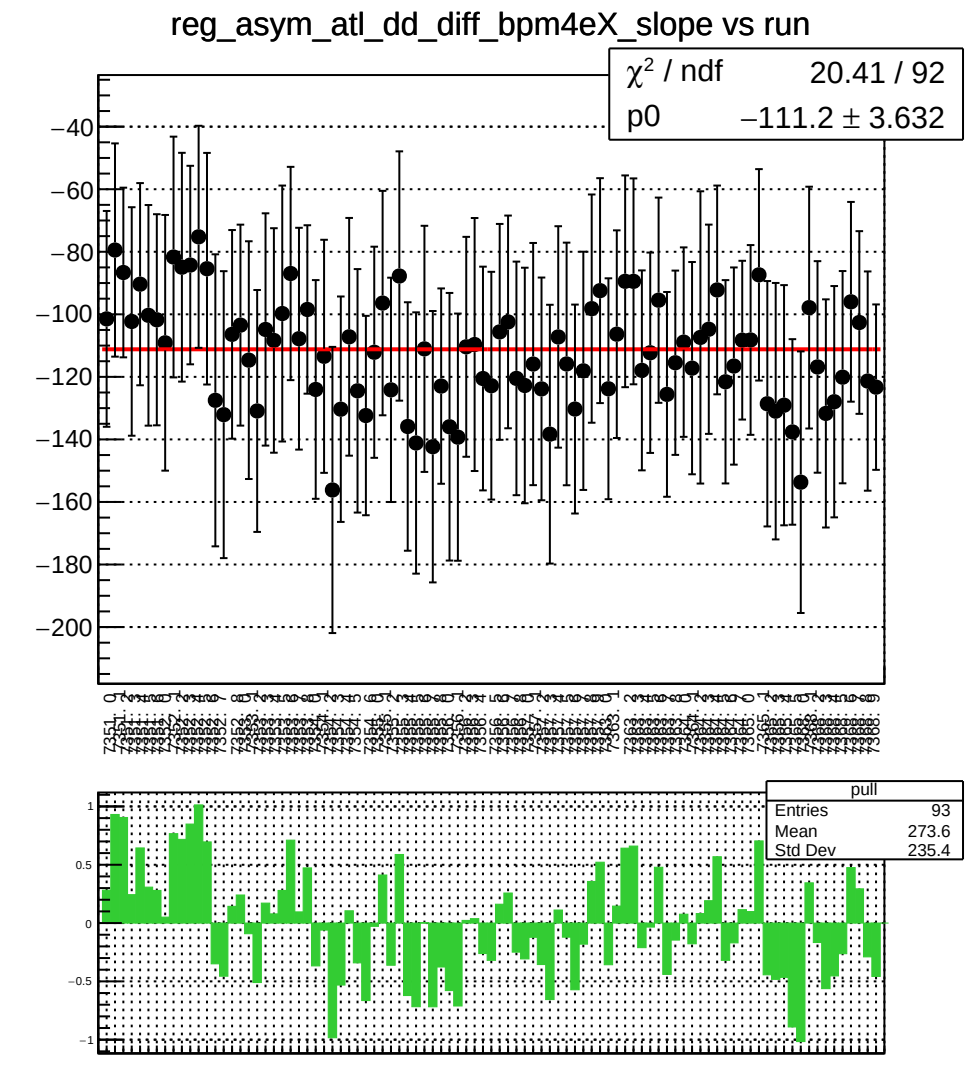

reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.31 / 92
p0 83.25 ± 4.157
200
150
100
50
0
pull
Entries 93
Mean −122.7
Std Dev 157.7
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean 0.01948
Std Dev 0.4053
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

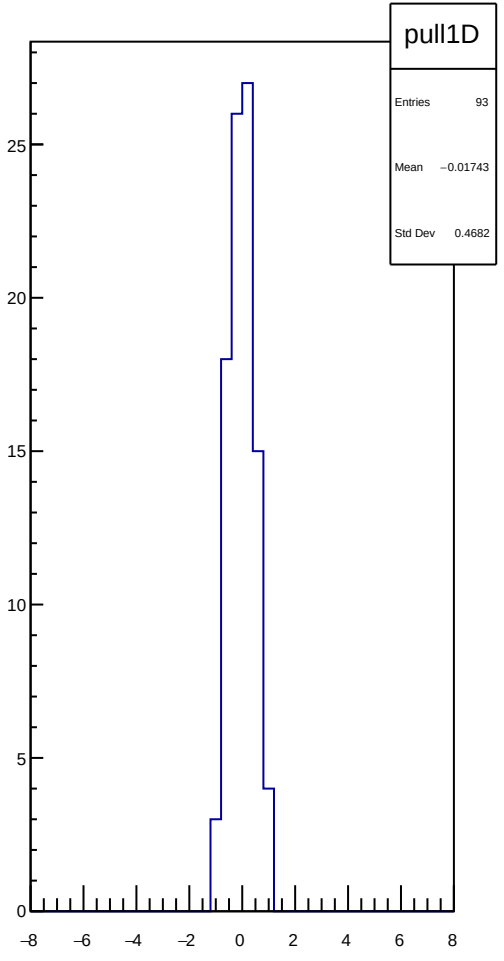

reg_asym_atl_avg_diff_bpm12X_slope vs run
χ² / ndf 150.8 / 92
p0 −120.9 ± 0.1963
pull
Entries 93
Mean −5219
Std Dev 5277
pull1D
Entries 93
Mean 0.002946
Std Dev 1.273

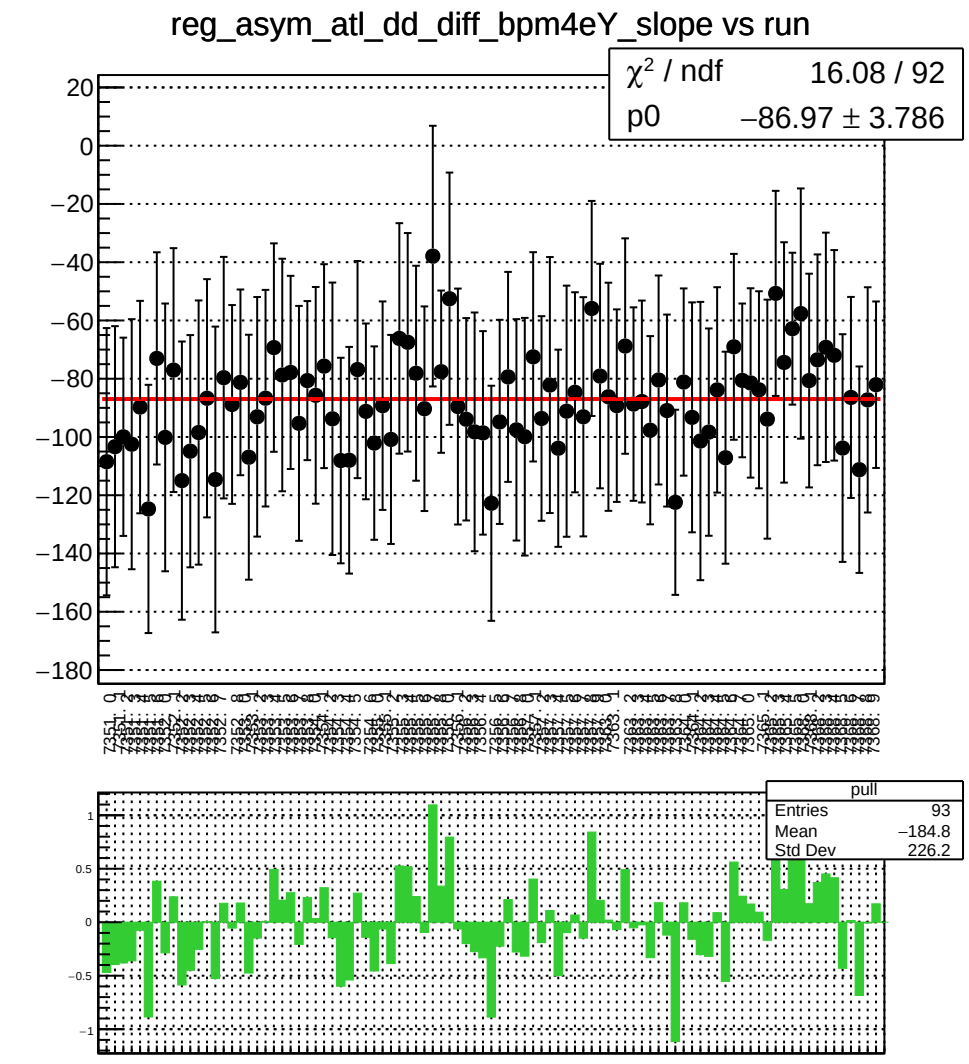

reg_asym_atl_dd_diff_bpm1X_slope vs run
χ² / ndf 19.89 / 92
p0 156.5 ± 3.649
pull
Entries 93
Mean 233
Std Dev 200.5

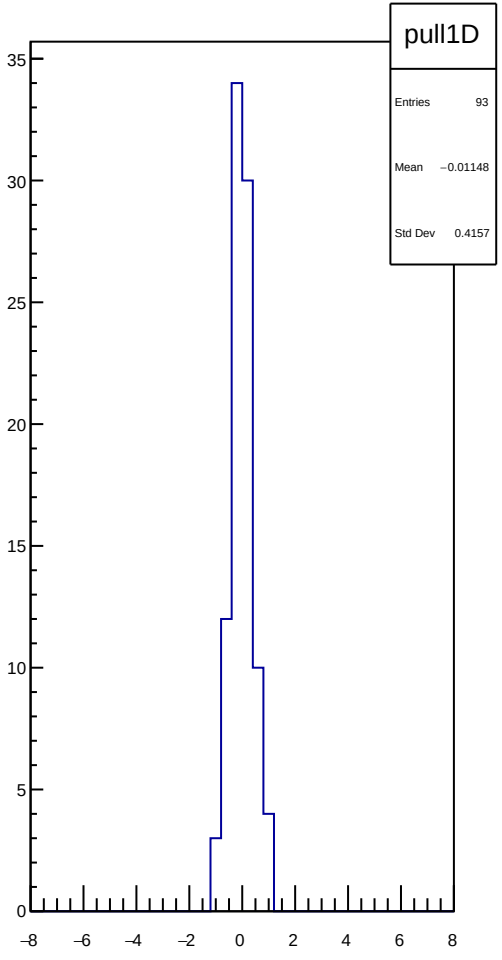

pull1D
Entries 93
Mean 0.01776
Std Dev 0.4622

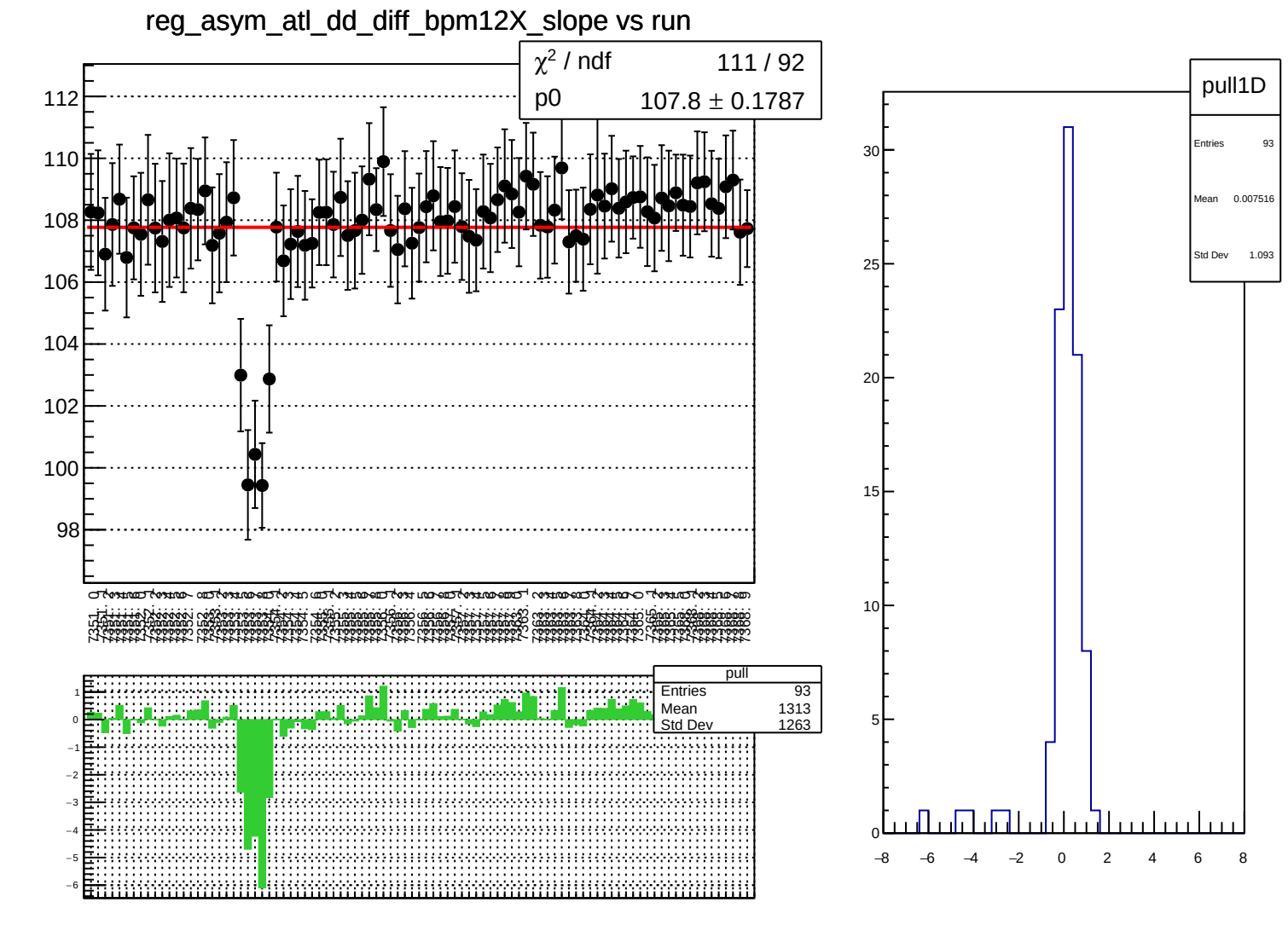

reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ² / ndf 15.52 / 92
p0 22.08 ± 3.56
pull
Entries 93
Mean −88.93
Std Dev 126.9
pull1D
Entries 93
Mean 0.01639
Std Dev 0.4081

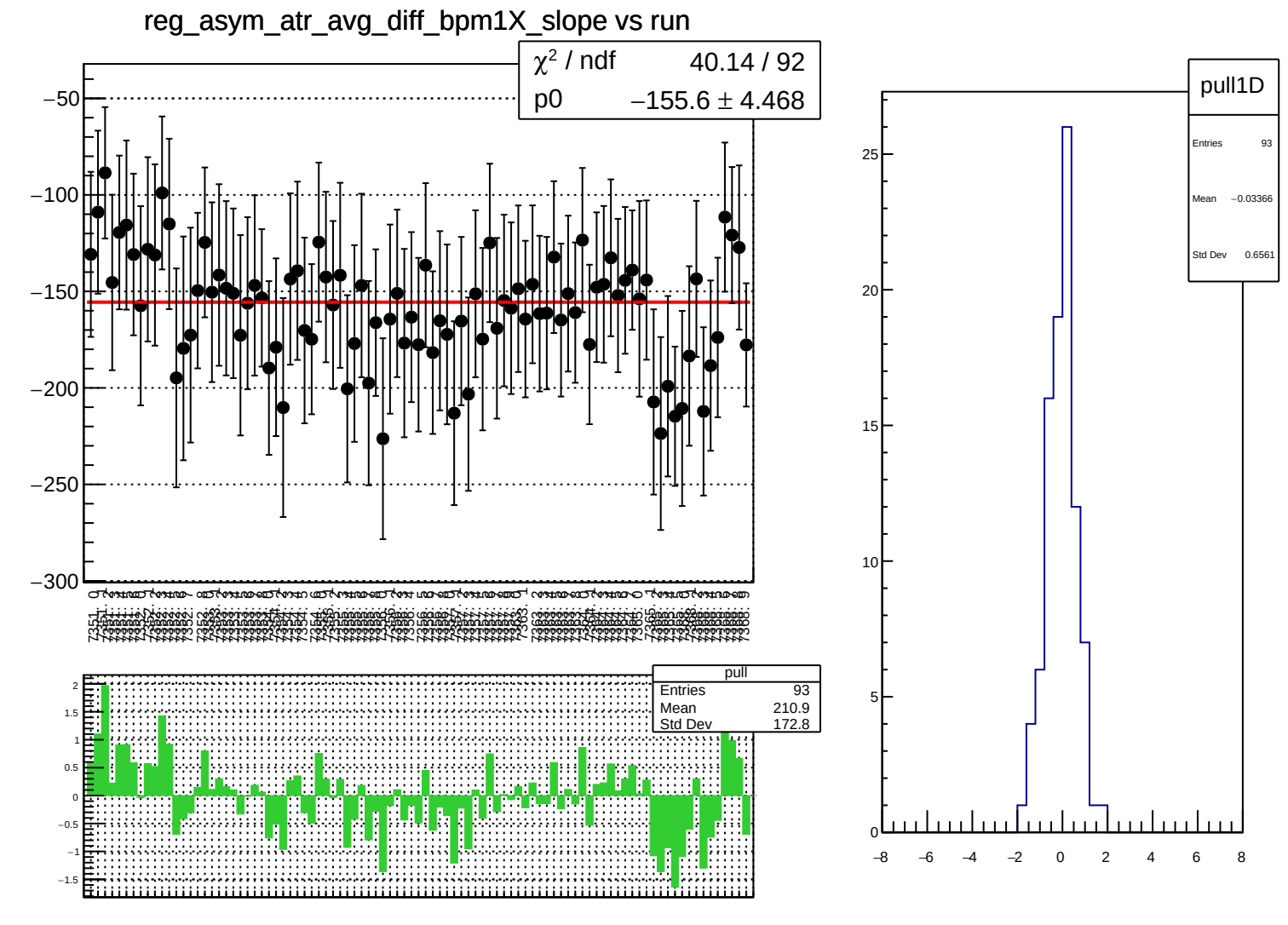

reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ² / ndf 20.41 / 92
p0 −111.2 ± 3.632
pull
Entries 93
Mean 273.6
Std Dev 235.4

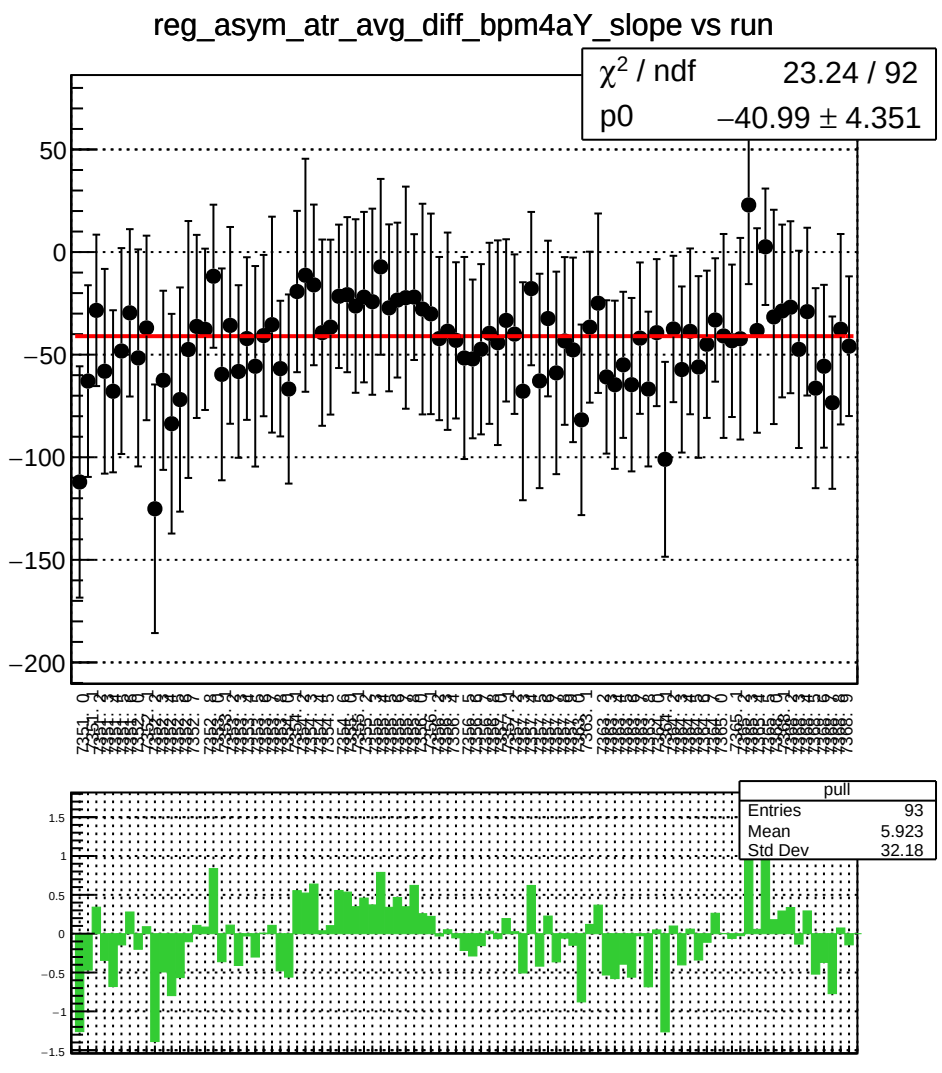

pull1D
Entries 93
Mean −0.01743
Std Dev 0.4682

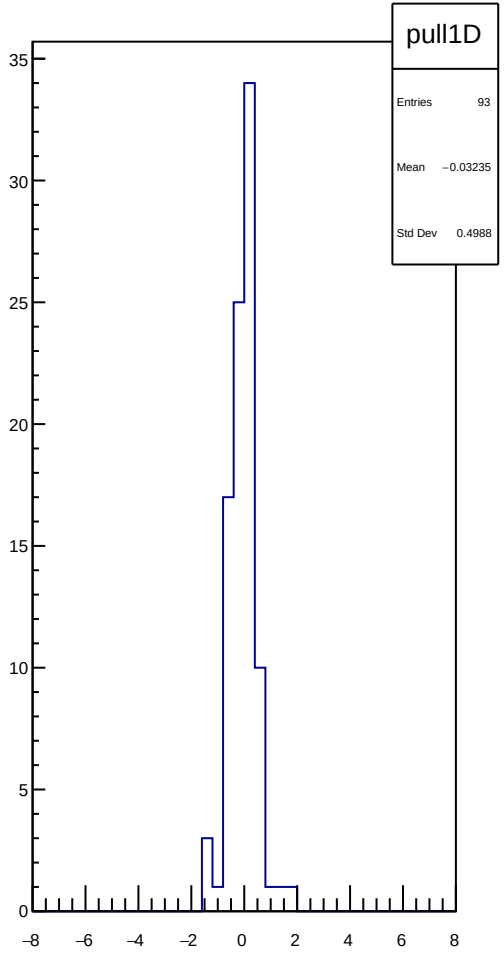

reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 16.08 / 92
p0 −86.97 ± 3.786
pull
Entries 93
Mean −184.8
Std Dev 226.2

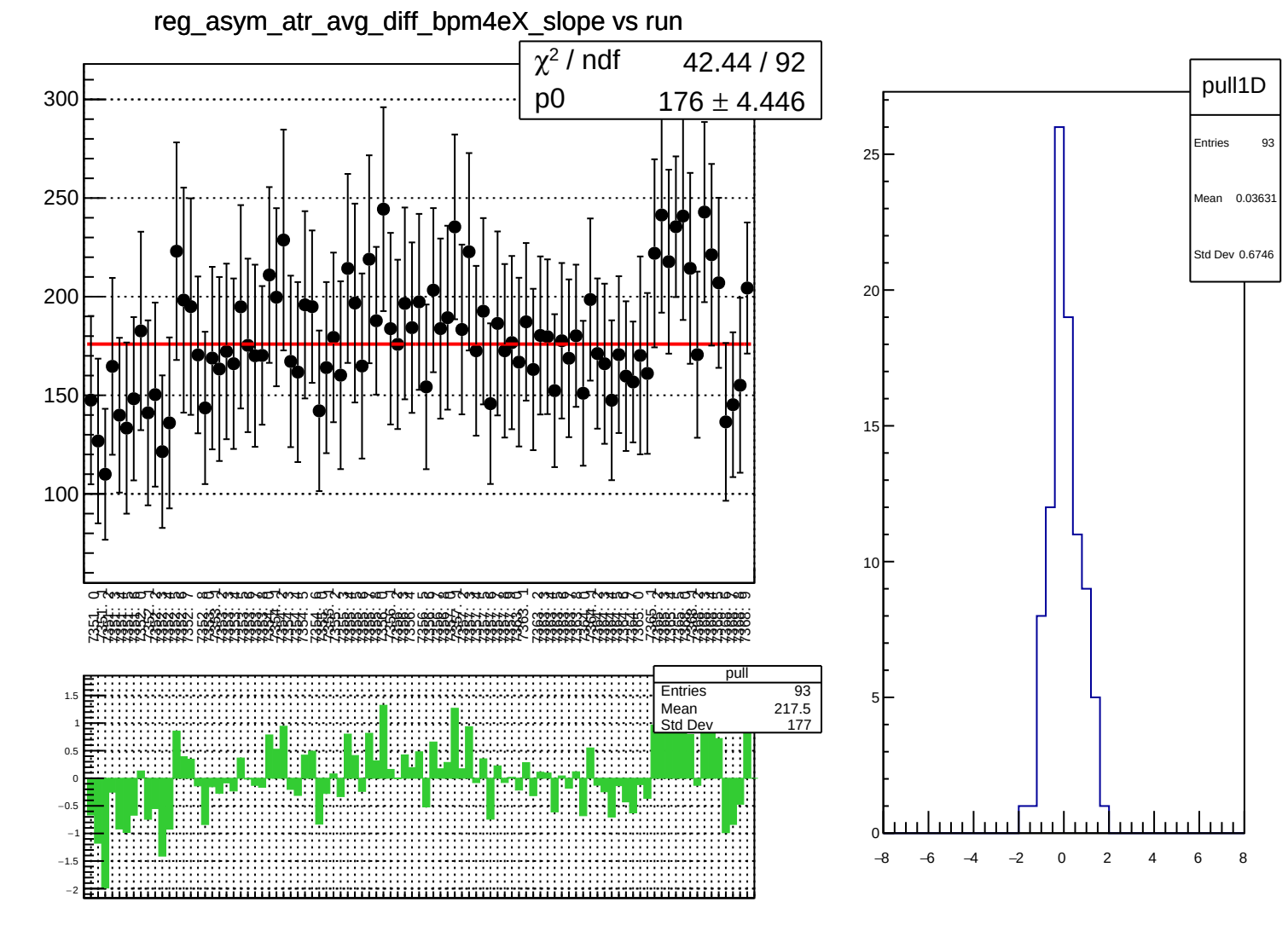

pull1D
Entries 93
Mean −0.01148
Std Dev 0.4157

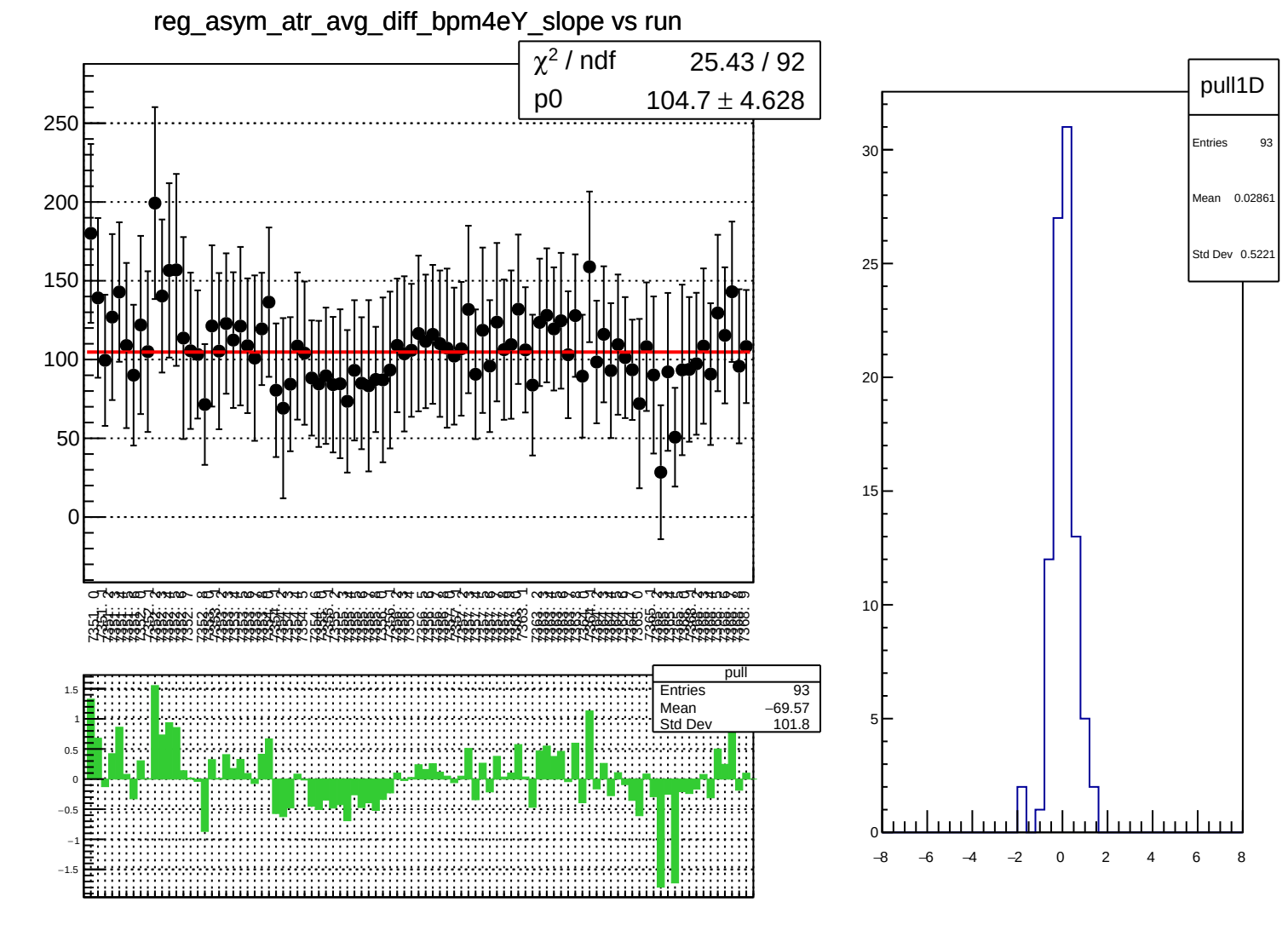

reg_asym_atl_dd_diff_bpm12X_slope vs run
χ² / ndf 111 / 92
p0 107.8 ± 0.1787
pull
Entries 93
Mean 1313
Std Dev 1263
pull1D
Entries 93
Mean 0.007516
Std Dev 1.093

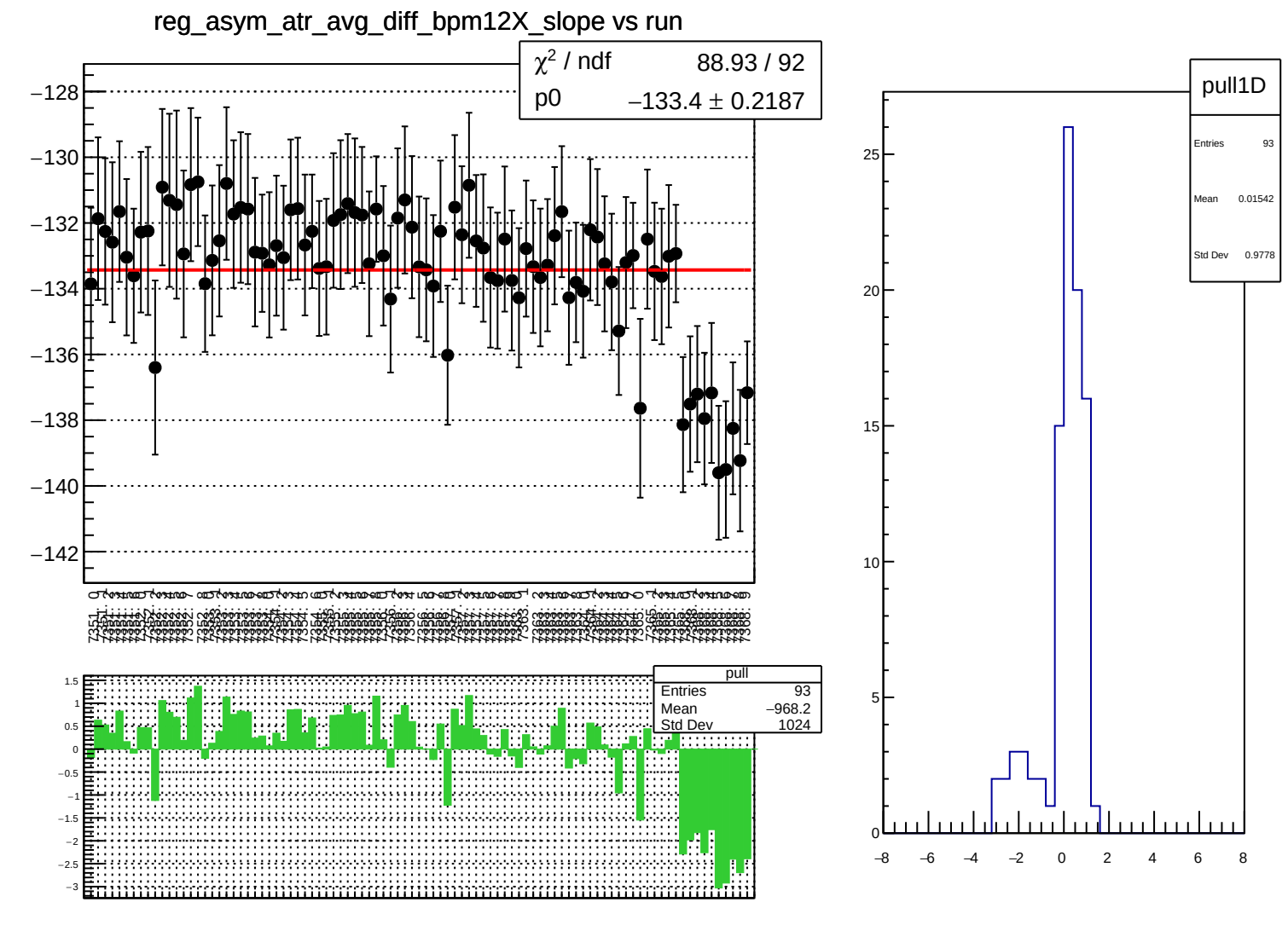

reg_asym_atr_avg_diff_bpm1X_slope vs run
χ² / ndf 40.14 / 92
p0 −155.6 ± 4.468
pull
Entries 93
Mean 210.9
Std Dev 172.8
pull1D
Entries 93
Mean −0.03366
Std Dev 0.6561

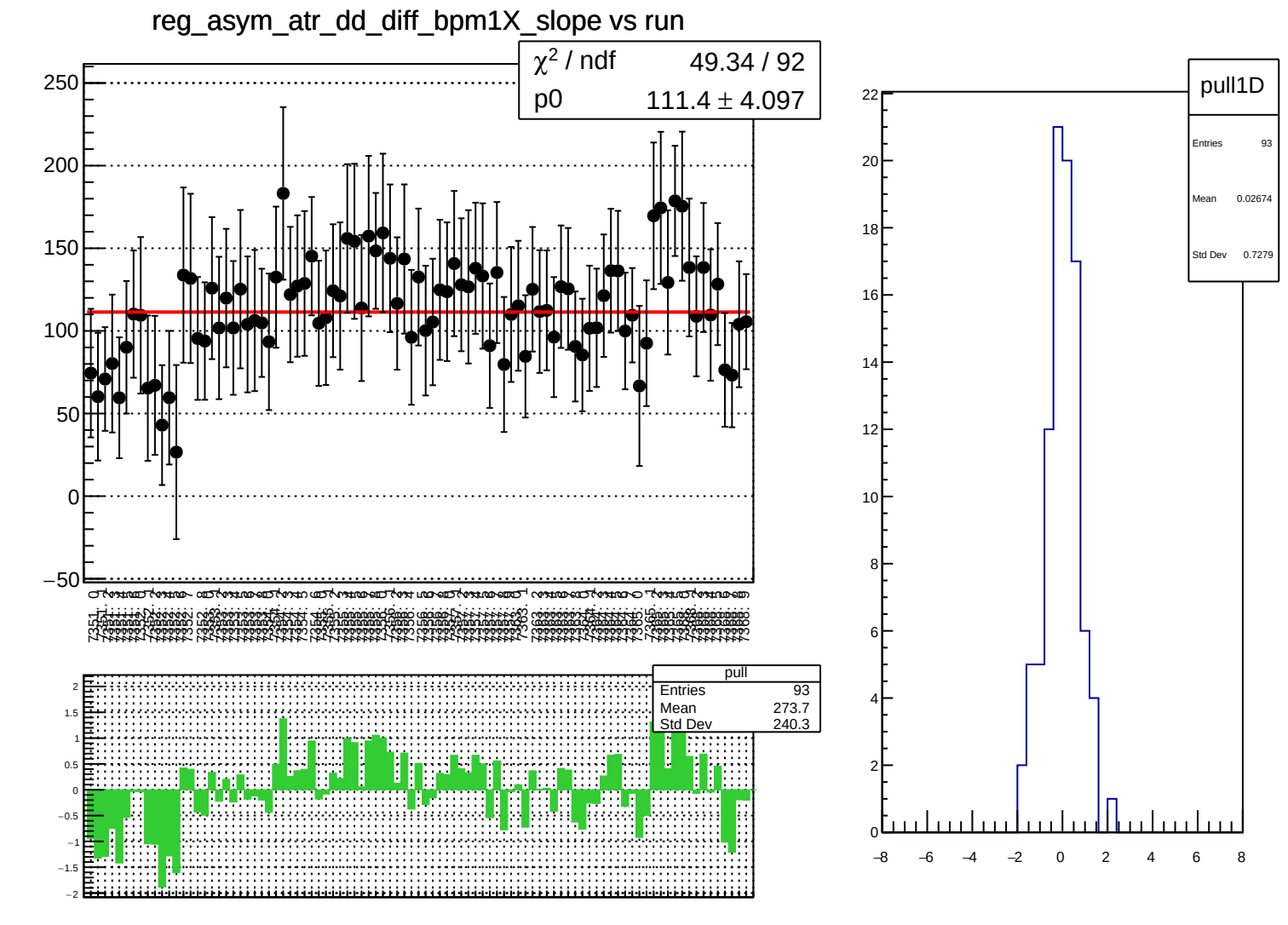

reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ² / ndf 23.24 / 92
p0 −40.99 ± 4.351
50
0
−50
−100
−150
−200
pull
Entries 93
Mean 5.923
Std Dev 32.18
1.5
1
0.5
0
−0.5
−1
−1.5

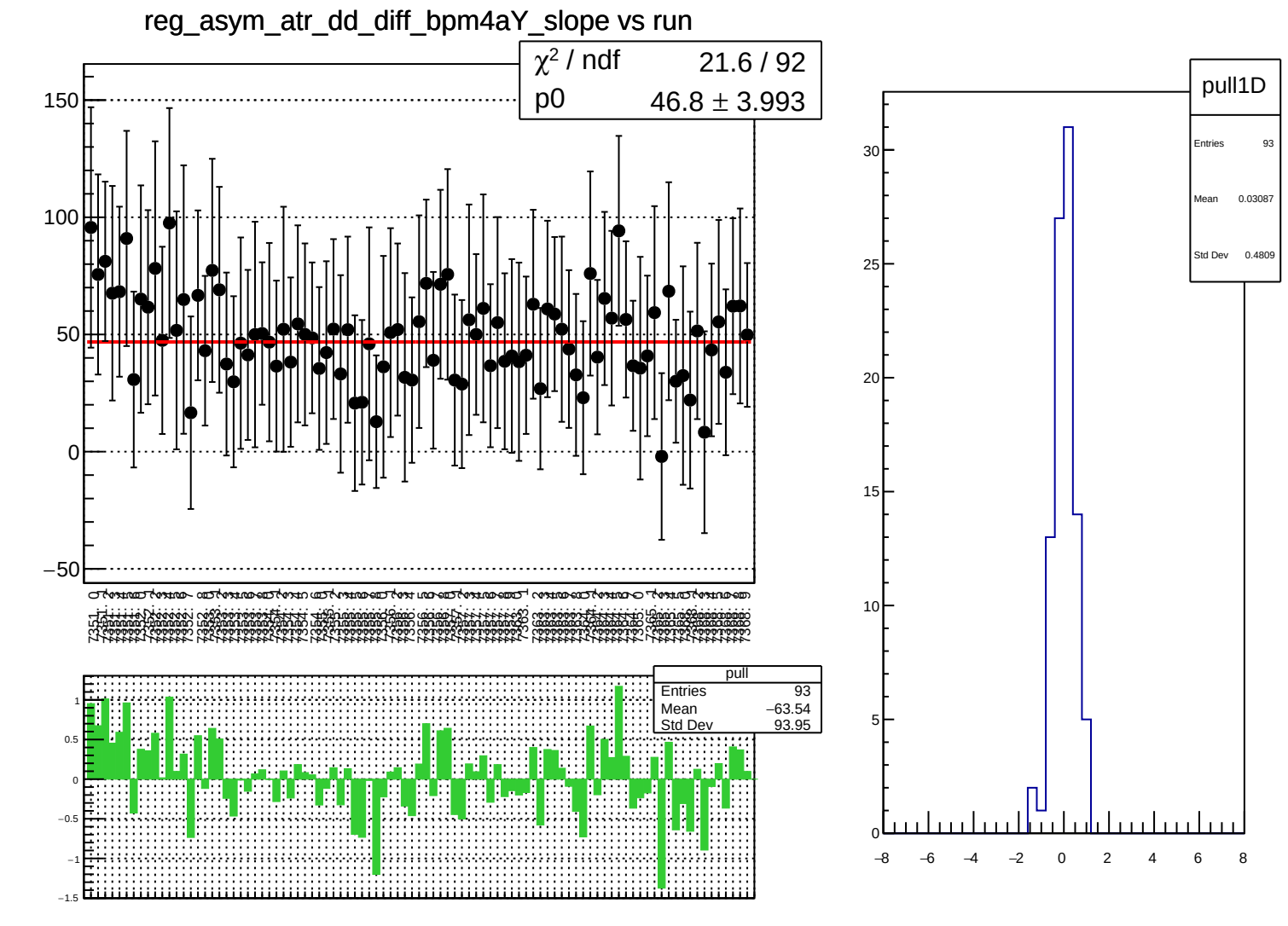

pull1D
Entries 93
Mean −0.03235
Std Dev 0.4988
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

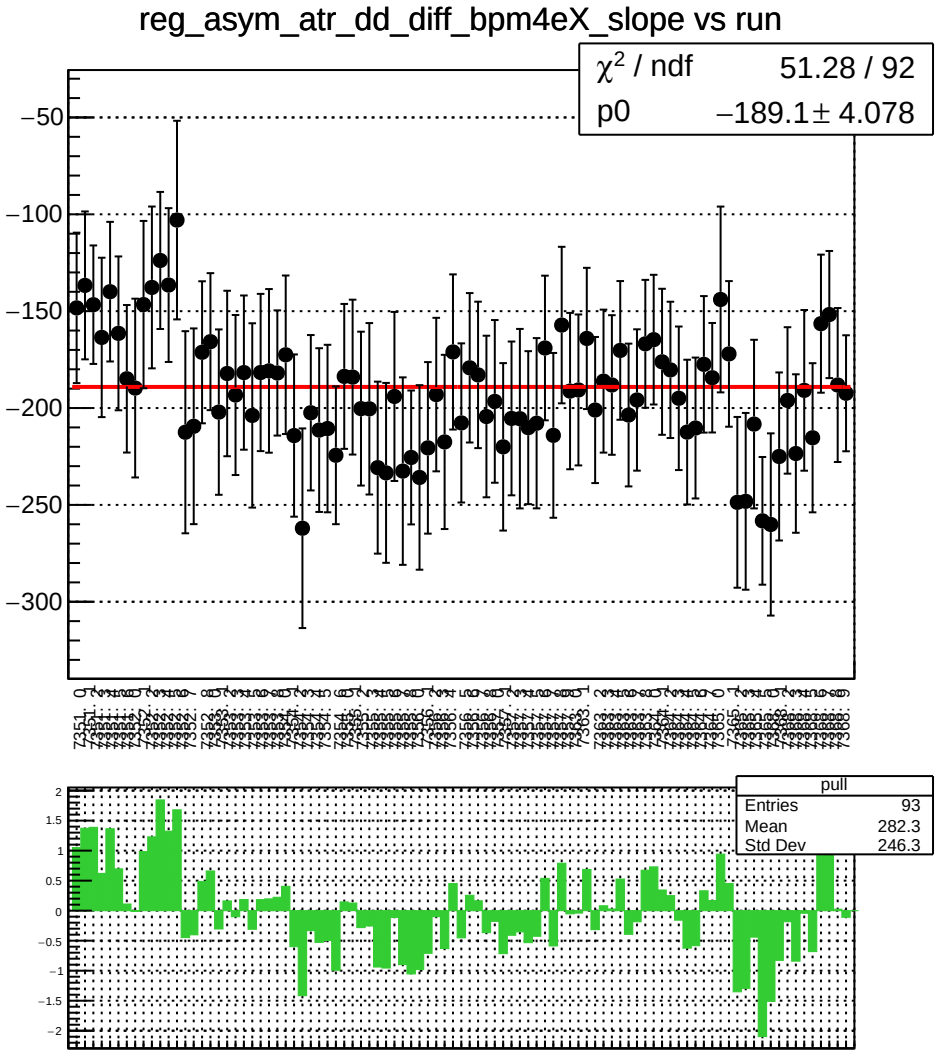

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ² / ndf 42.44 / 92
p0 176 ± 4.446
300
250
200
150
100
pull
Entries 93
Mean 217.5
Std Dev 177
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03631
Std Dev 0.6746
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

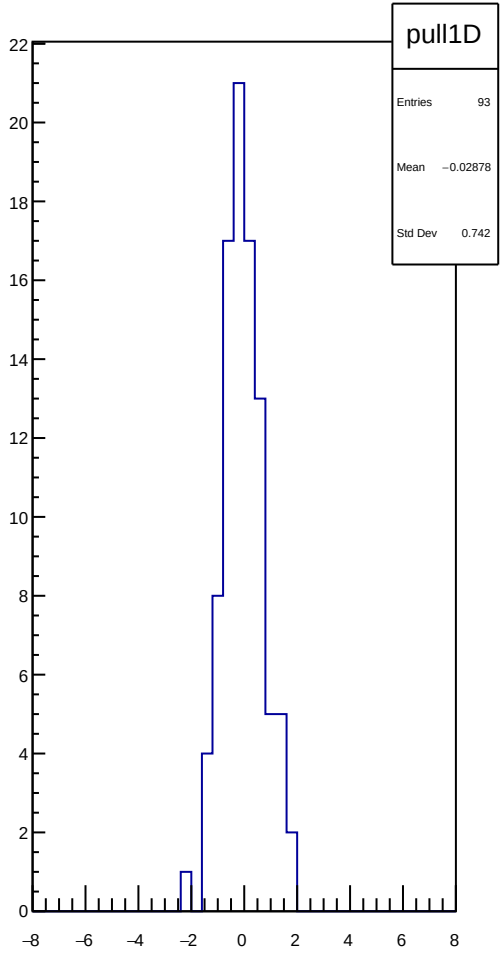

reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ² / ndf 25.43 / 92
p0 104.7 ± 4.628
250
200
150
100
50
0
pull
Entries 93
Mean −69.57
Std Dev 101.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02861
Std Dev 0.5221
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

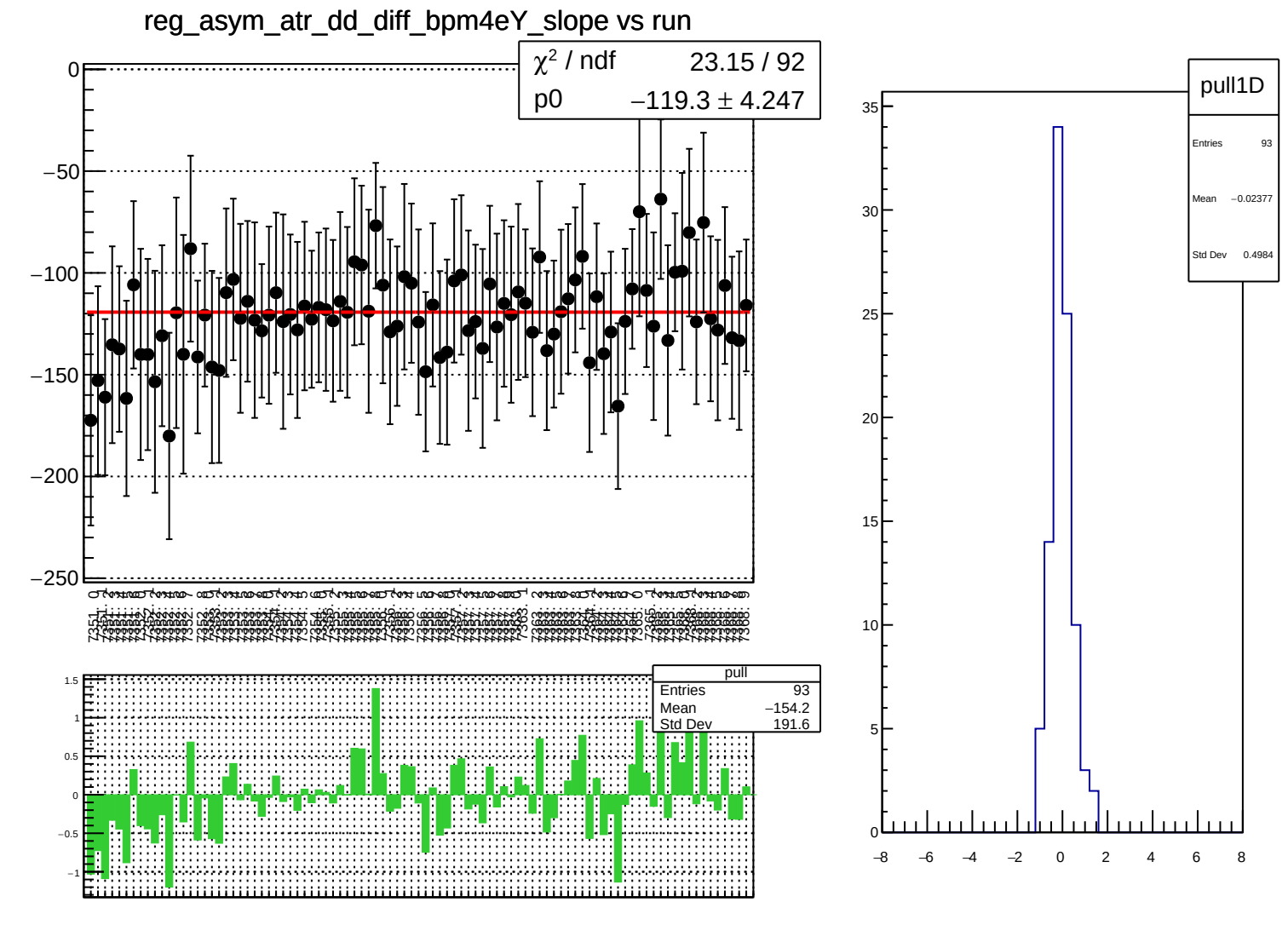

reg_asym_atr_avg_diff_bpm12X_slope vs run
χ² / ndf 88.93 / 92
p0 −133.4 ± 0.2187
−128
−130
−132
−134
−136
−138
−140
−142
pull
Entries 93
Mean −968.2
Std Dev 1024
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
−3
pull1D
Entries 93
Mean 0.01542
Std Dev 0.9778
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

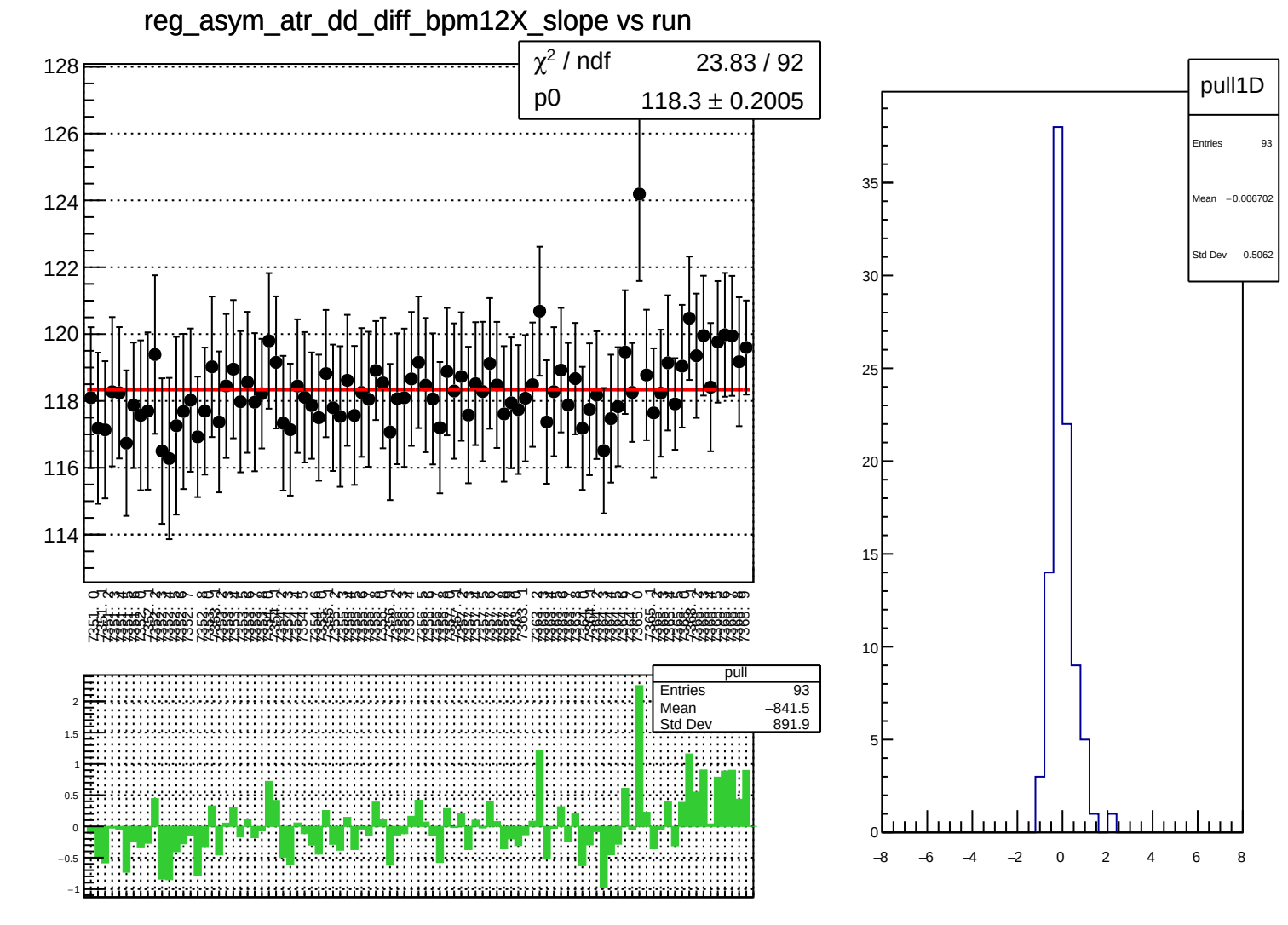

reg_asym_atr_dd_diff_bpm1X_slope vs run
χ² / ndf 49.34 / 92
p0 111.4 ± 4.097
pull
Entries 93
Mean 273.7
Std Dev 240.3
pull1D
Entries 93
Mean 0.02674
Std Dev 0.7279

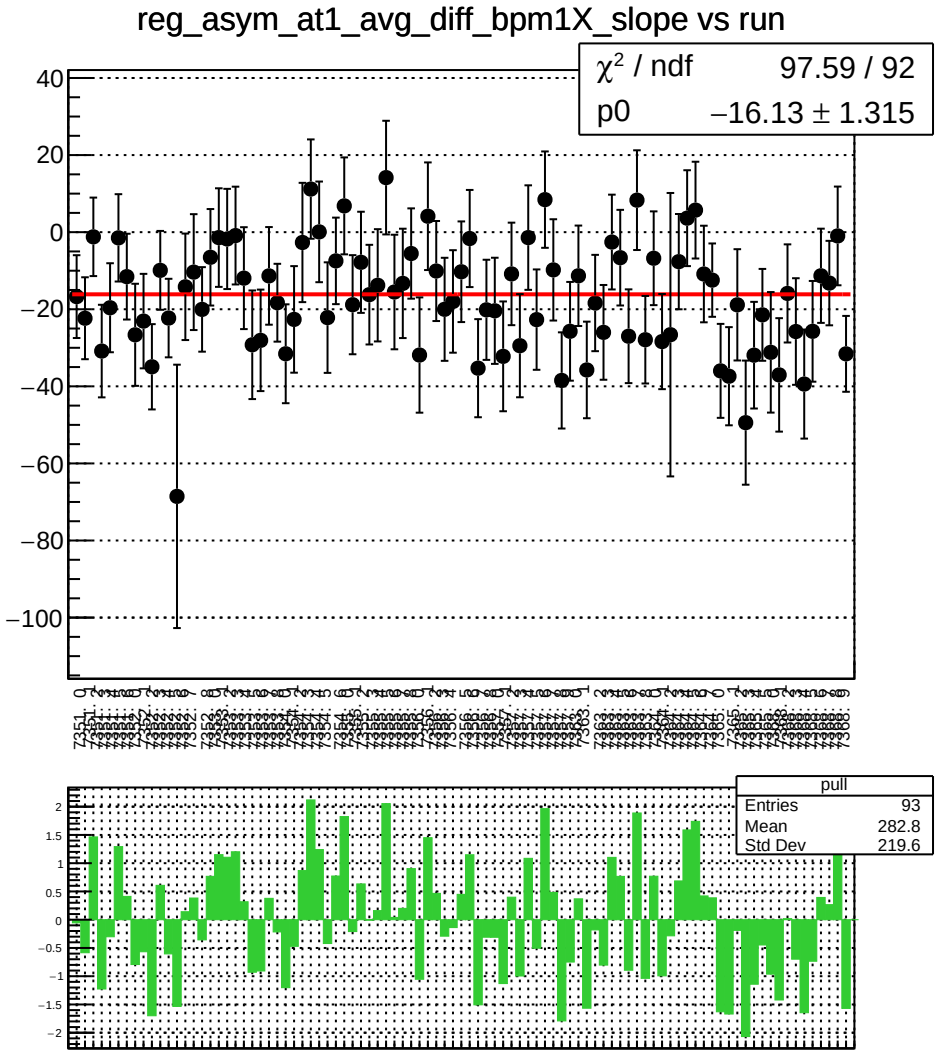

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ² / ndf 21.6 / 92
p0 46.8 ± 3.993
150
100
50
0
−50
pull
Entries 93
Mean −63.54
Std Dev 93.95
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.03087
Std Dev 0.4809
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

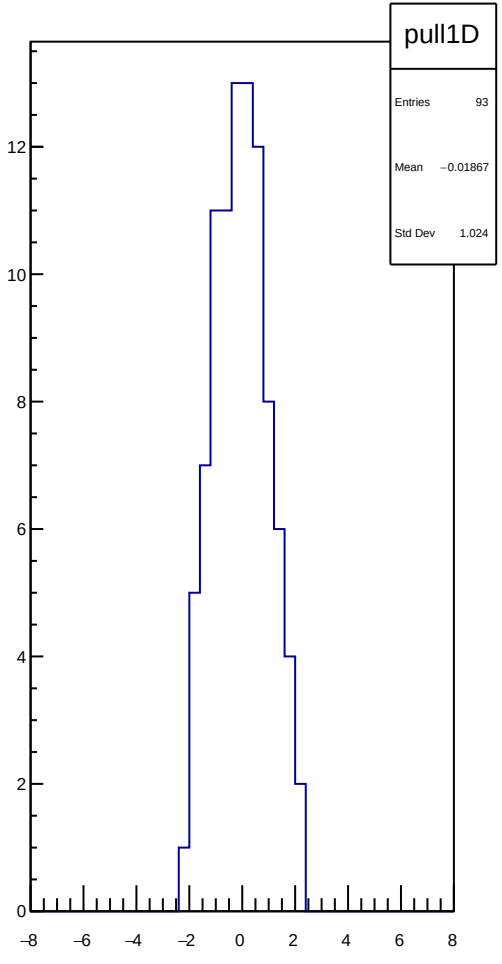

reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.28 / 92
p0 −189.1± 4.078
−50
−100
−150
−200
−250
−300
pull
Entries 93
Mean 282.3
Std Dev 246.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

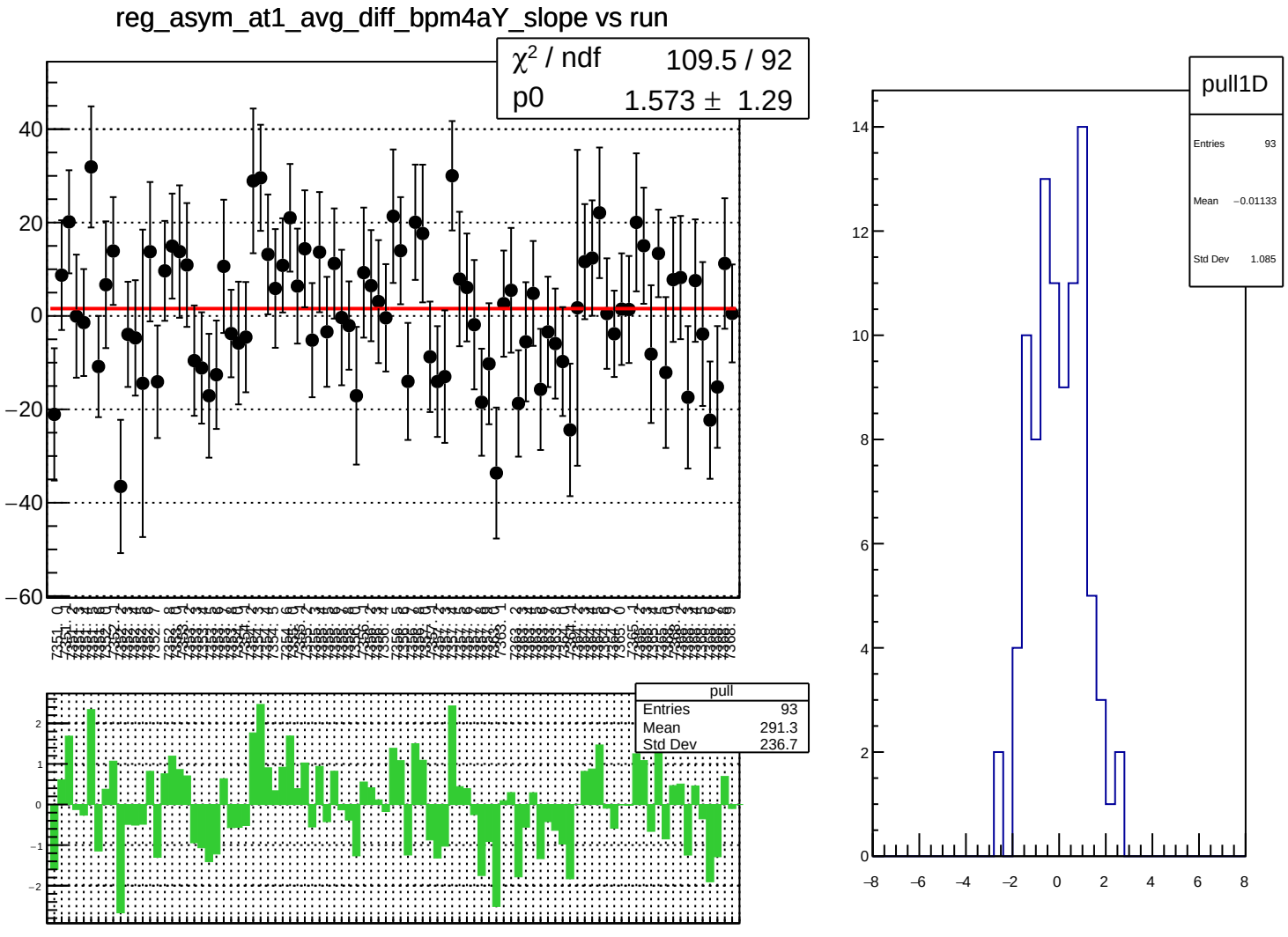

pull1D
Entries 93
Mean −0.02878
Std Dev 0.742
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

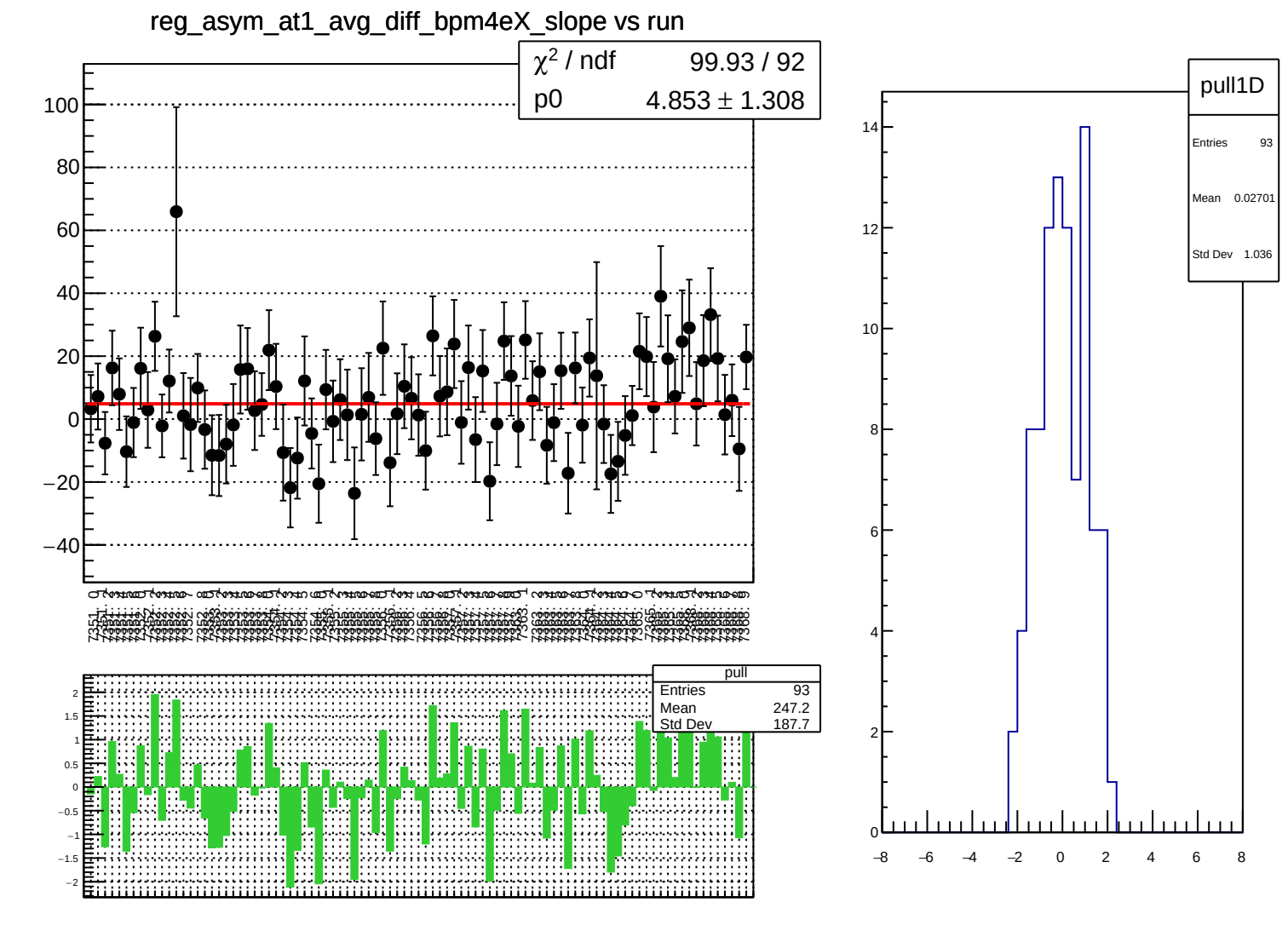

reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ² / ndf 23.15 / 92
p0 −119.3 ± 4.247
pull
Entries 93
Mean −154.2
Std Dev 191.6
pull1D
Entries 93
Mean −0.02377
Std Dev 0.4984

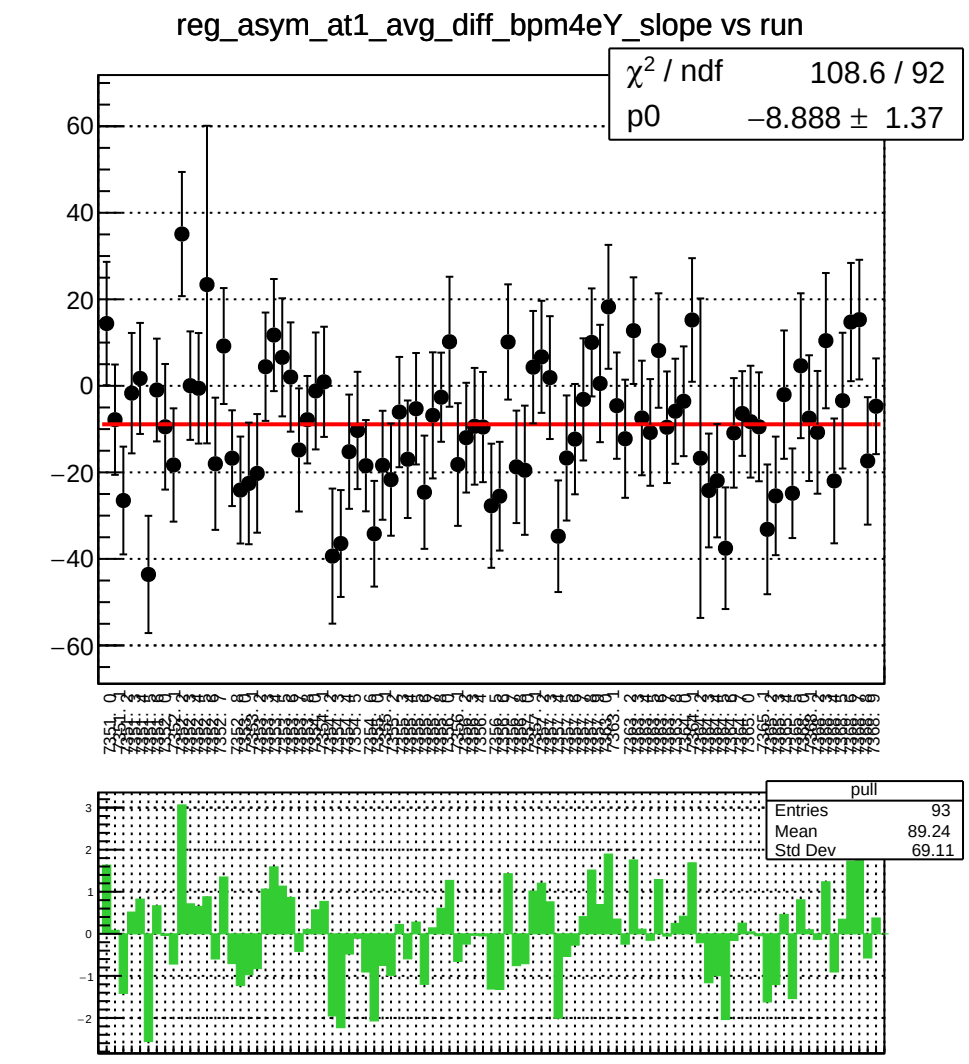

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ² / ndf 23.83 / 92
p0 118.3 ± 0.2005
pull
Entries 93
Mean −841.5
Std Dev 891.9
pull1D
Entries 93
Mean −0.006702
Std Dev 0.5062

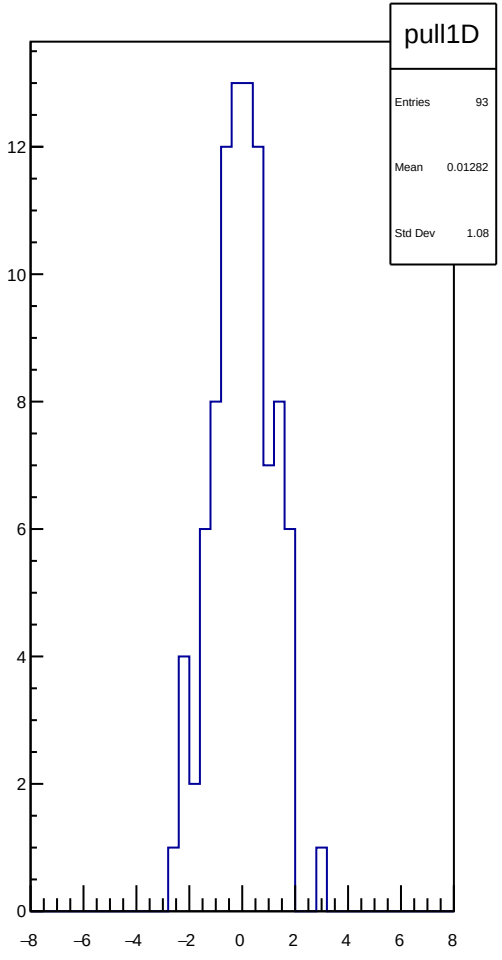

reg_asym_at1_avg_diff_bpm1X_slope vs run
χ² / ndf 97.59 / 92
p0 −16.13 ± 1.315
pull
Entries 93
Mean 282.8
Std Dev 219.6

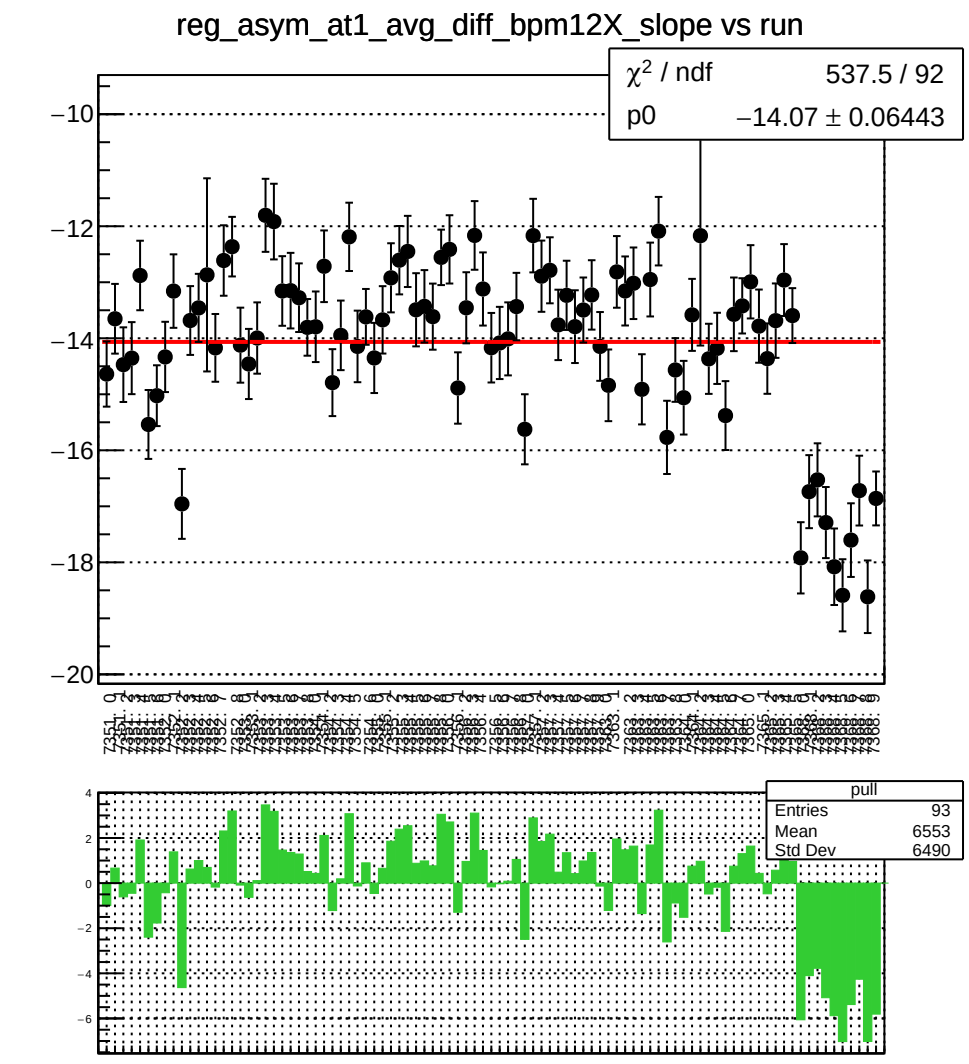

pull1D
Entries 93
Mean −0.01867
Std Dev 1.024

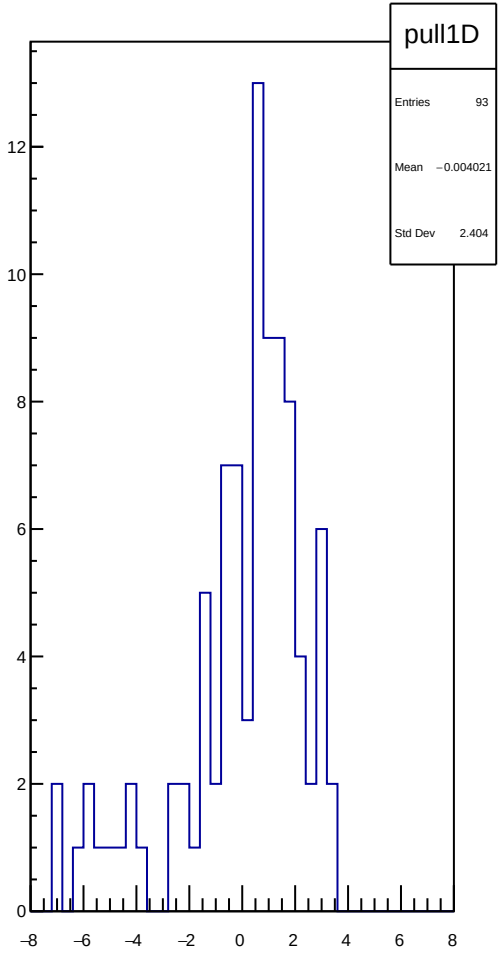

reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ² / ndf 109.5 / 92
p0 1.573 ± 1.29
pull
Entries 93
Mean 291.3
Std Dev 236.7
pull1D
Entries 93
Mean −0.01133
Std Dev 1.085

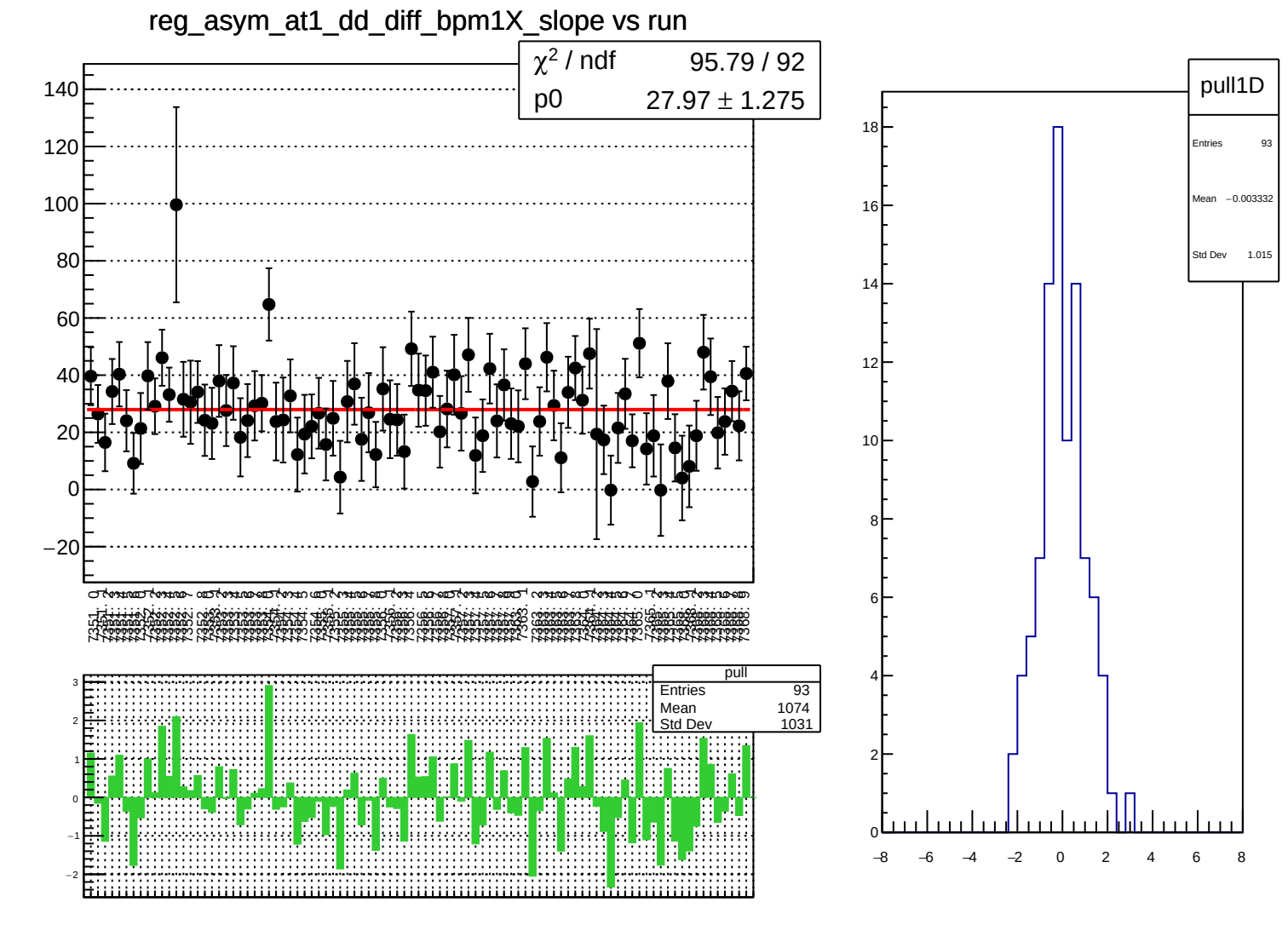

reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ² / ndf 99.93 / 92
p0 4.853 ± 1.308
pull
Entries 93
Mean 247.2
Std Dev 187.7
pull1D
Entries 93
Mean 0.02701
Std Dev 1.036

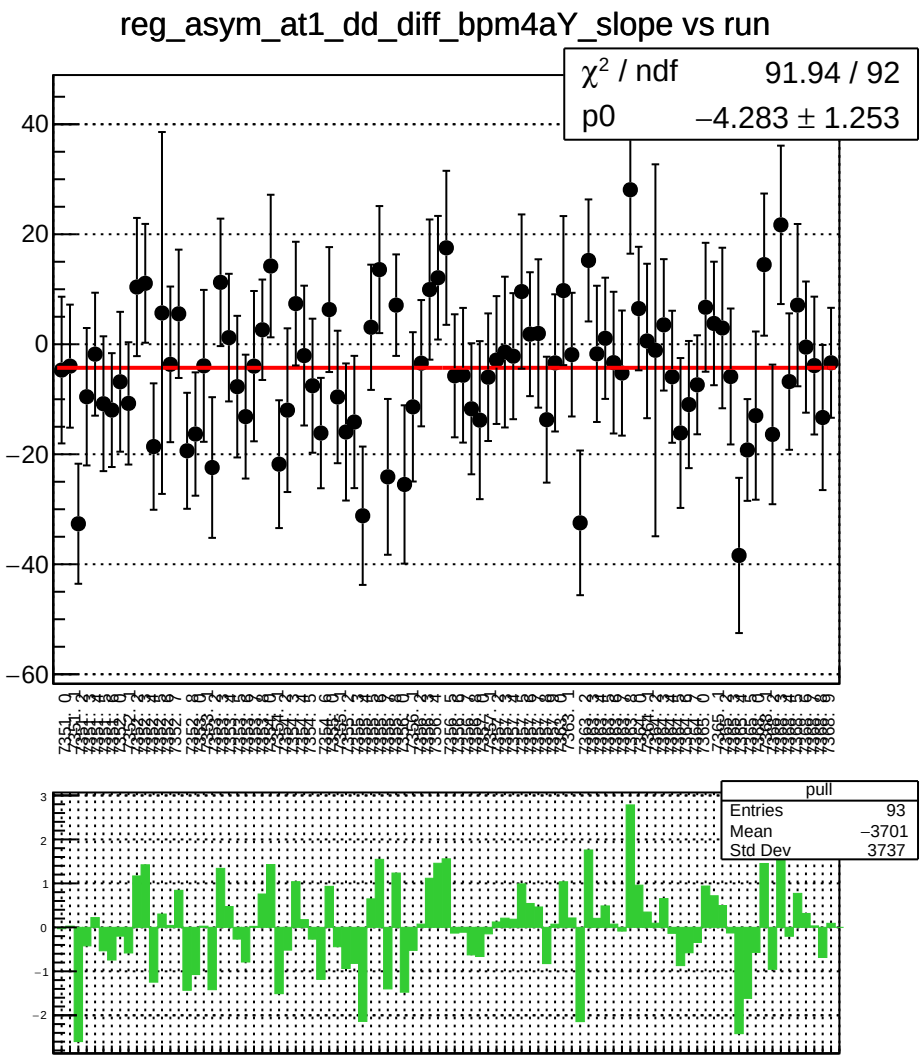

reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ² / ndf 108.6 / 92
p0 −8.888 ± 1.37
pull
Entries 93
Mean 89.24
Std Dev 69.11

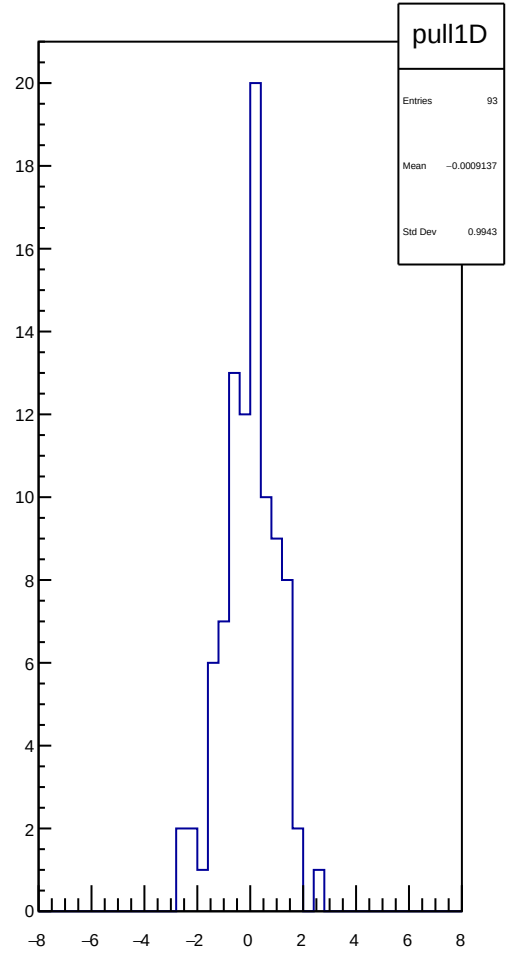

pull1D
Entries 93
Mean 0.01282
Std Dev 1.08

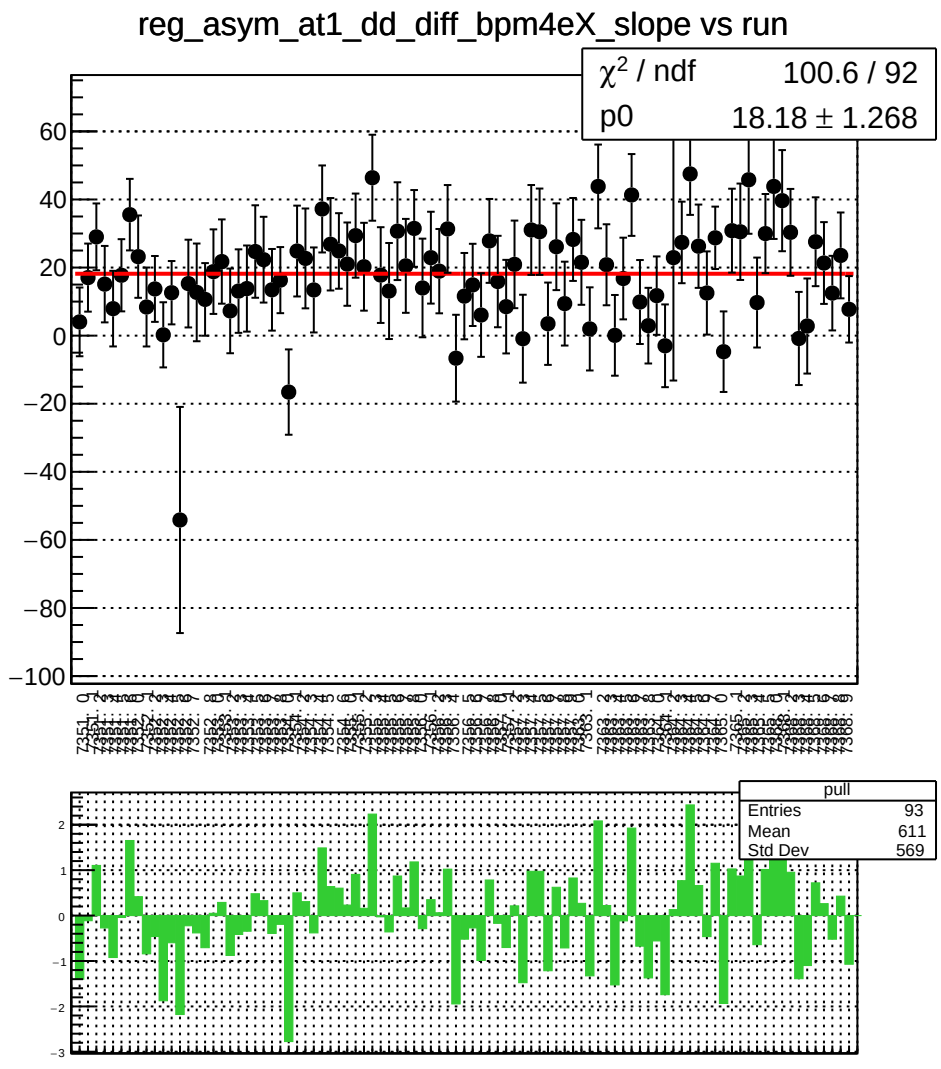

reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 537.5 / 92
p0 −14.07 ± 0.06443
pull
Entries 93
Mean 6553
Std Dev 6490

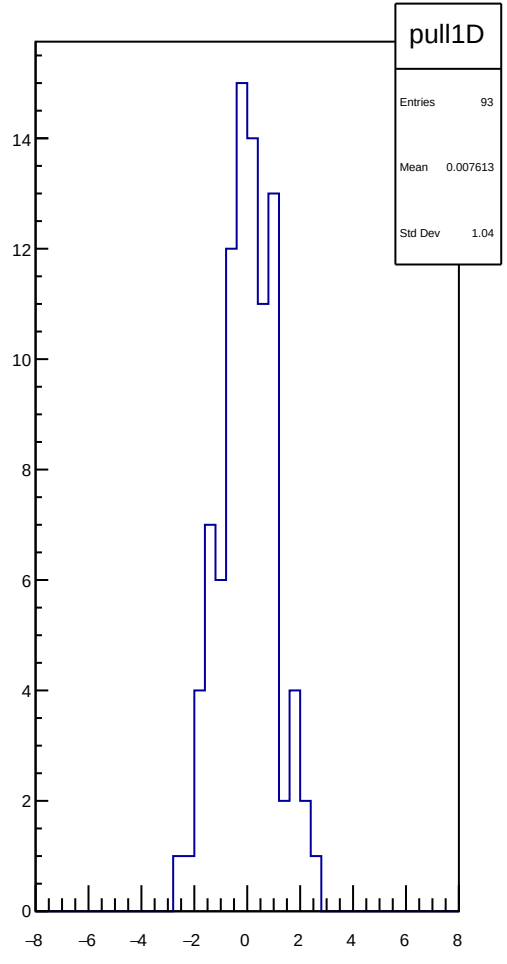

pull1D
Entries 93
Mean −0.004021
Std Dev 2.404

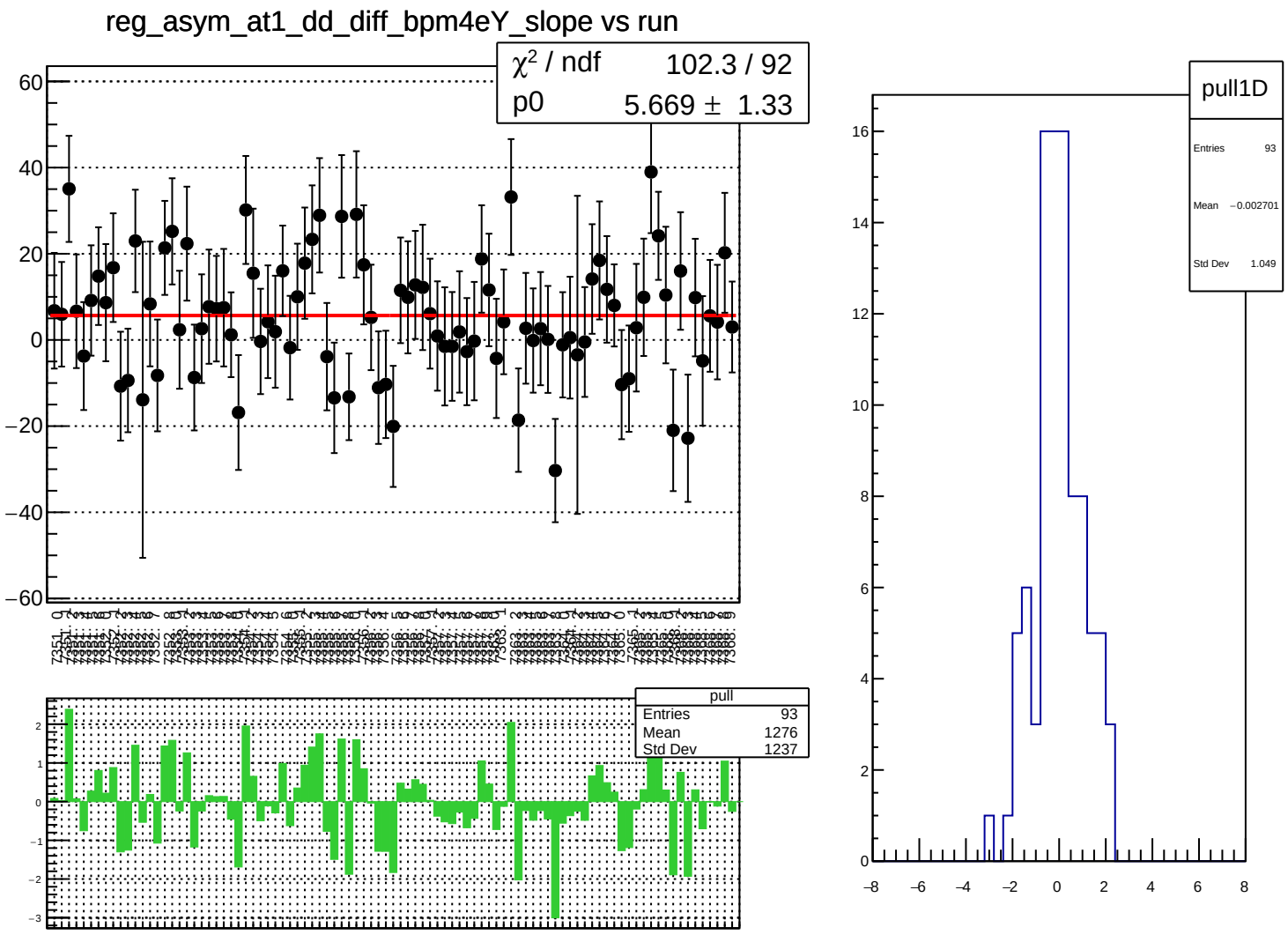

reg_asym_at1_dd_diff_bpm1X_slope vs run
χ² / ndf 95.79 / 92
p0 27.97 ± 1.275
pull
Entries 93
Mean 1074
Std Dev 1031
pull1D
Entries 93
Mean −0.003332
Std Dev 1.015

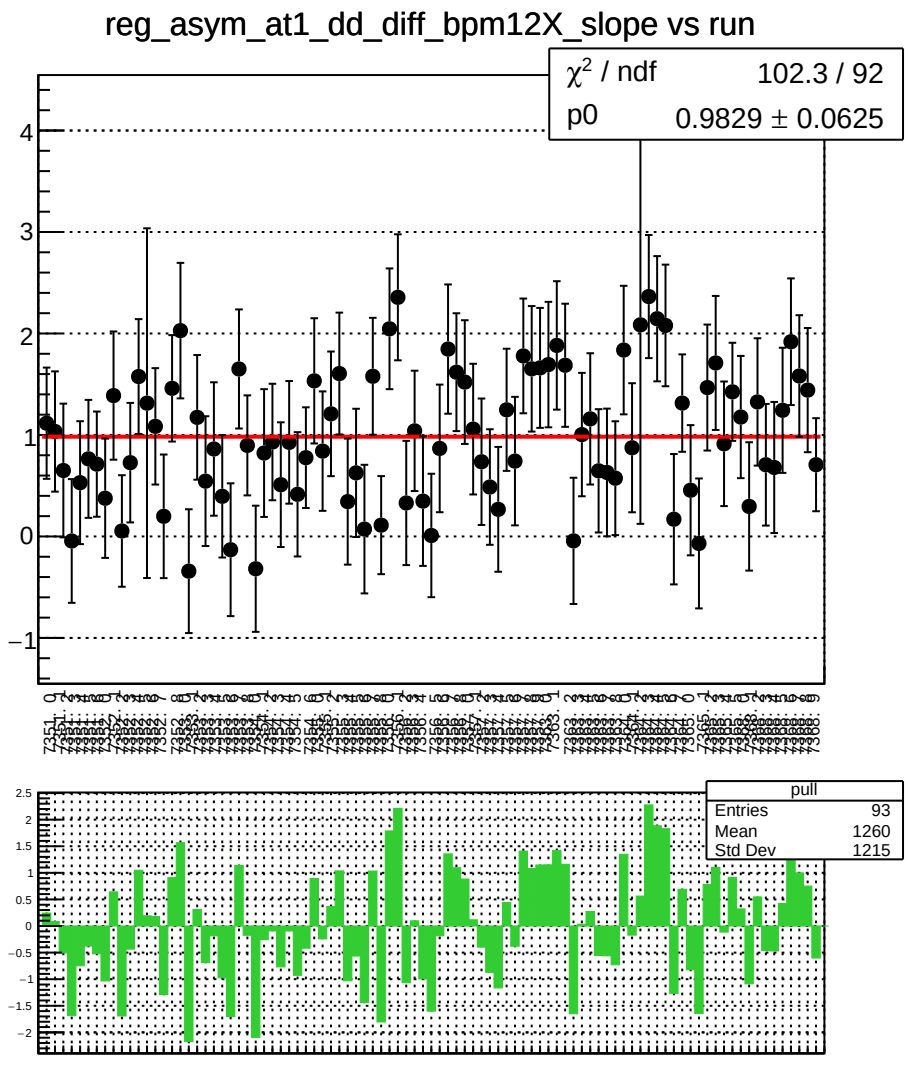

reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ² / ndf 91.94 / 92
p0 −4.283 ± 1.253
pull
Entries 93
Mean −3701
Std Dev 3737

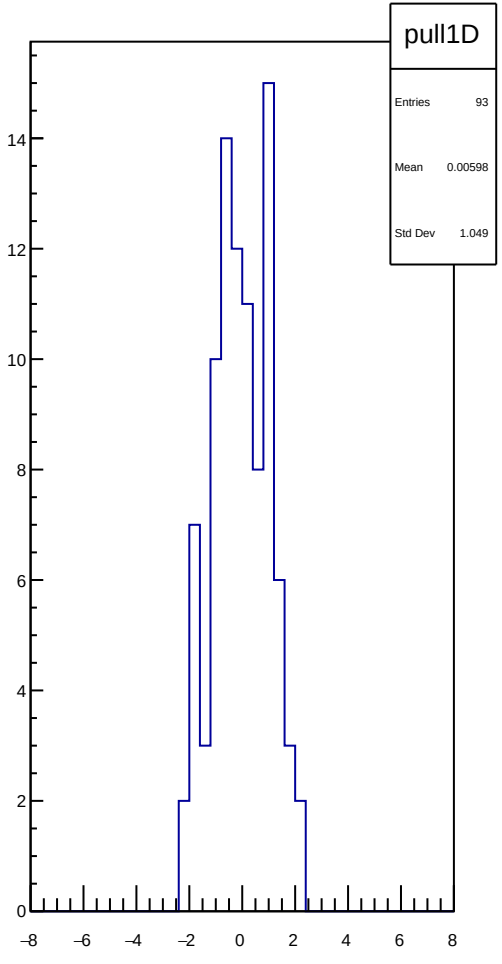

pull1D
Entries 93
Mean −0.0009137
Std Dev 0.9943

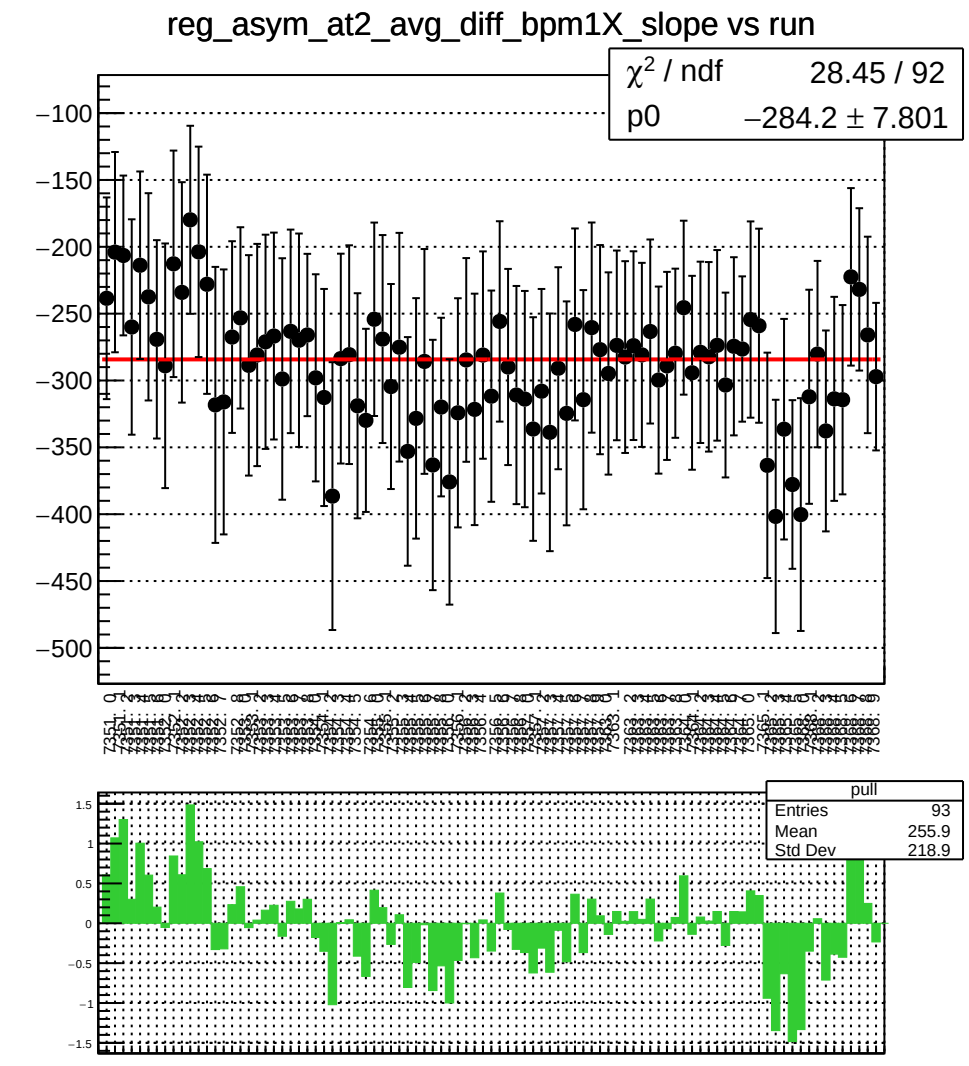

reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.6 / 92
p0 18.18 ± 1.268
pull
Entries 93
Mean 611
Std Dev 569

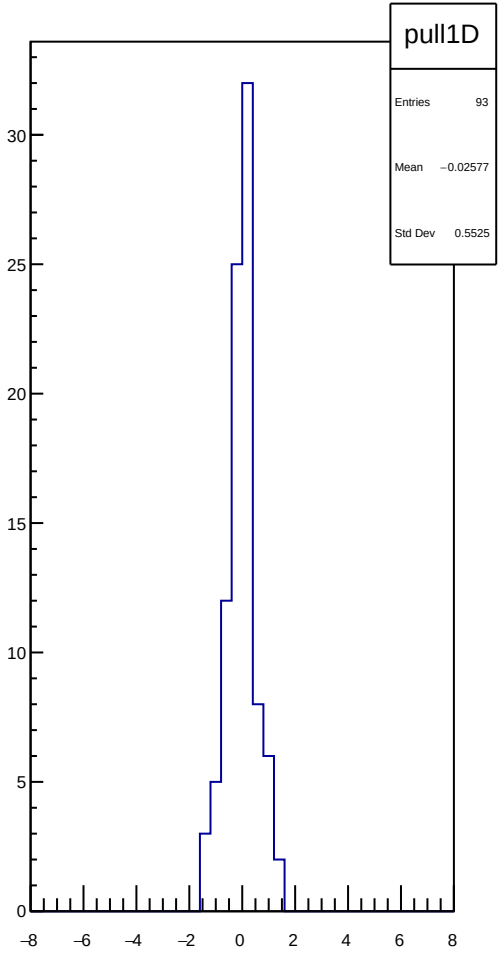

pull1D
Entries 93
Mean 0.007613
Std Dev 1.04

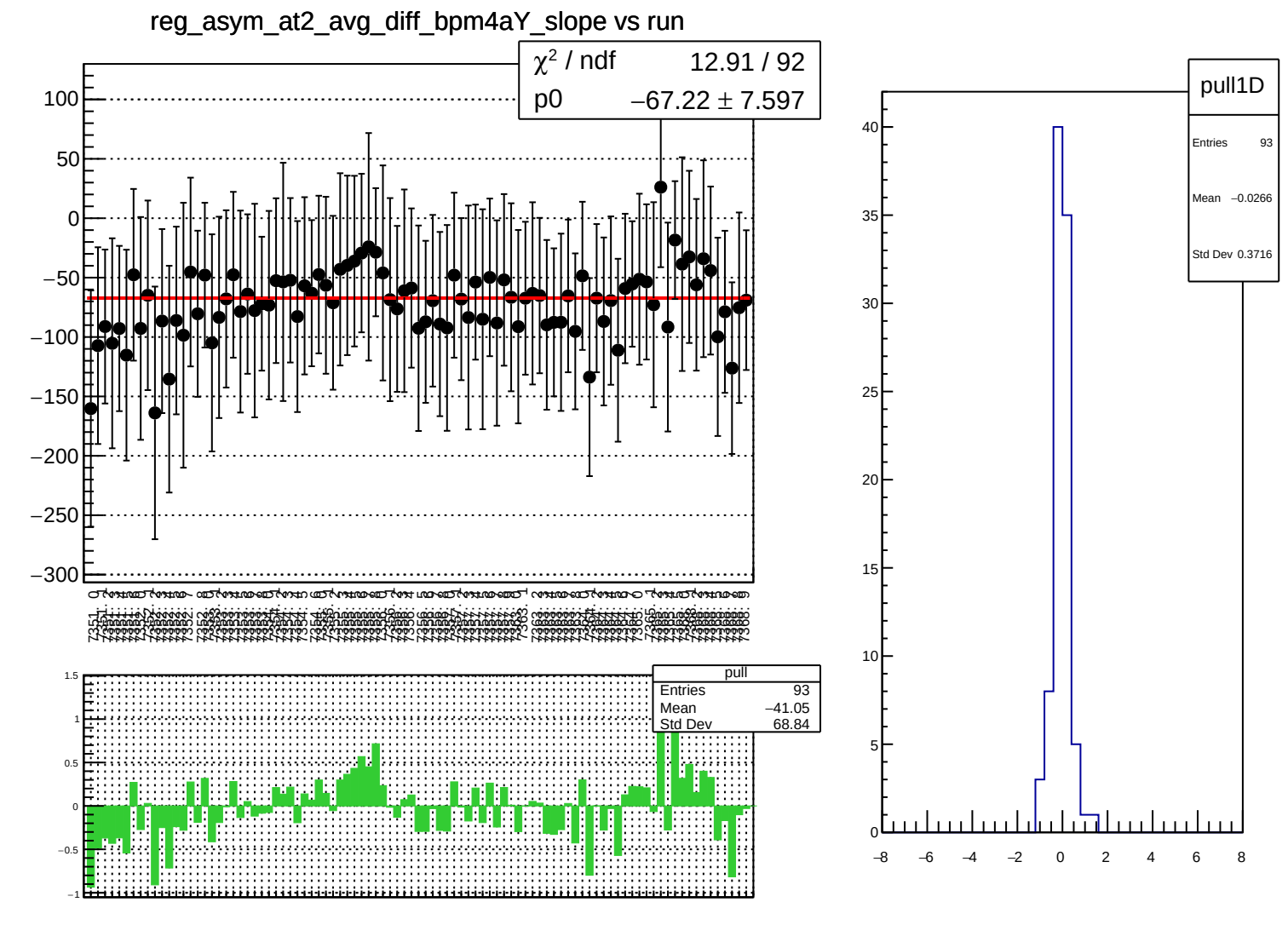

reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.3 / 92
p0 5.669 ± 1.33
pull
Entries 93
Mean 1276
Std Dev 1237
pull1D
Entries 93
Mean −0.002701
Std Dev 1.049

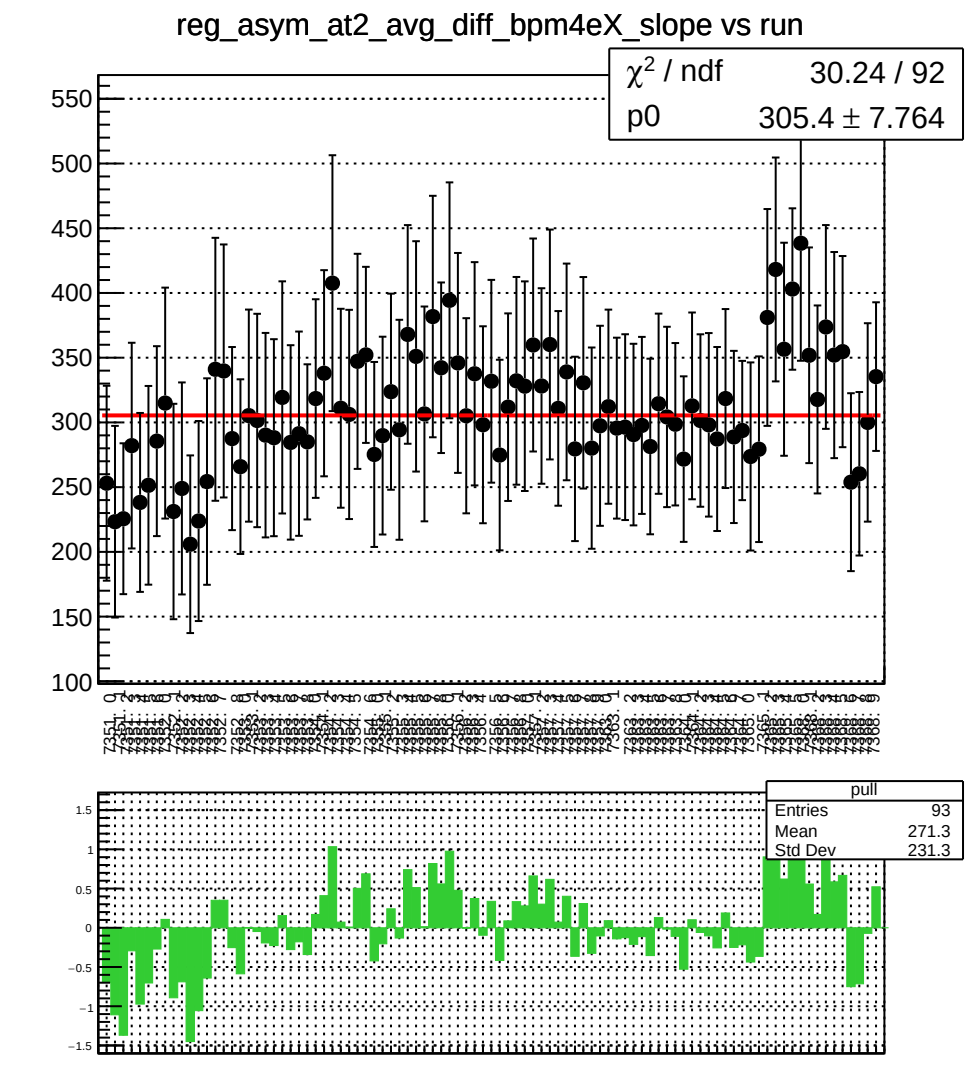

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ² / ndf 102.3 / 92
p0 0.9829 ± 0.0625
pull
Entries 93
Mean 1260
Std Dev 1215

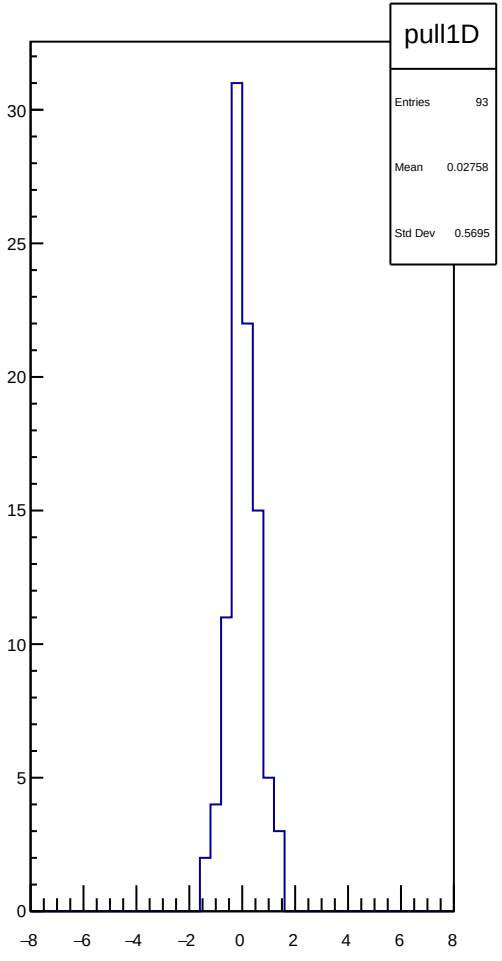

pull1D
Entries 93
Mean 0.00598
Std Dev 1.049

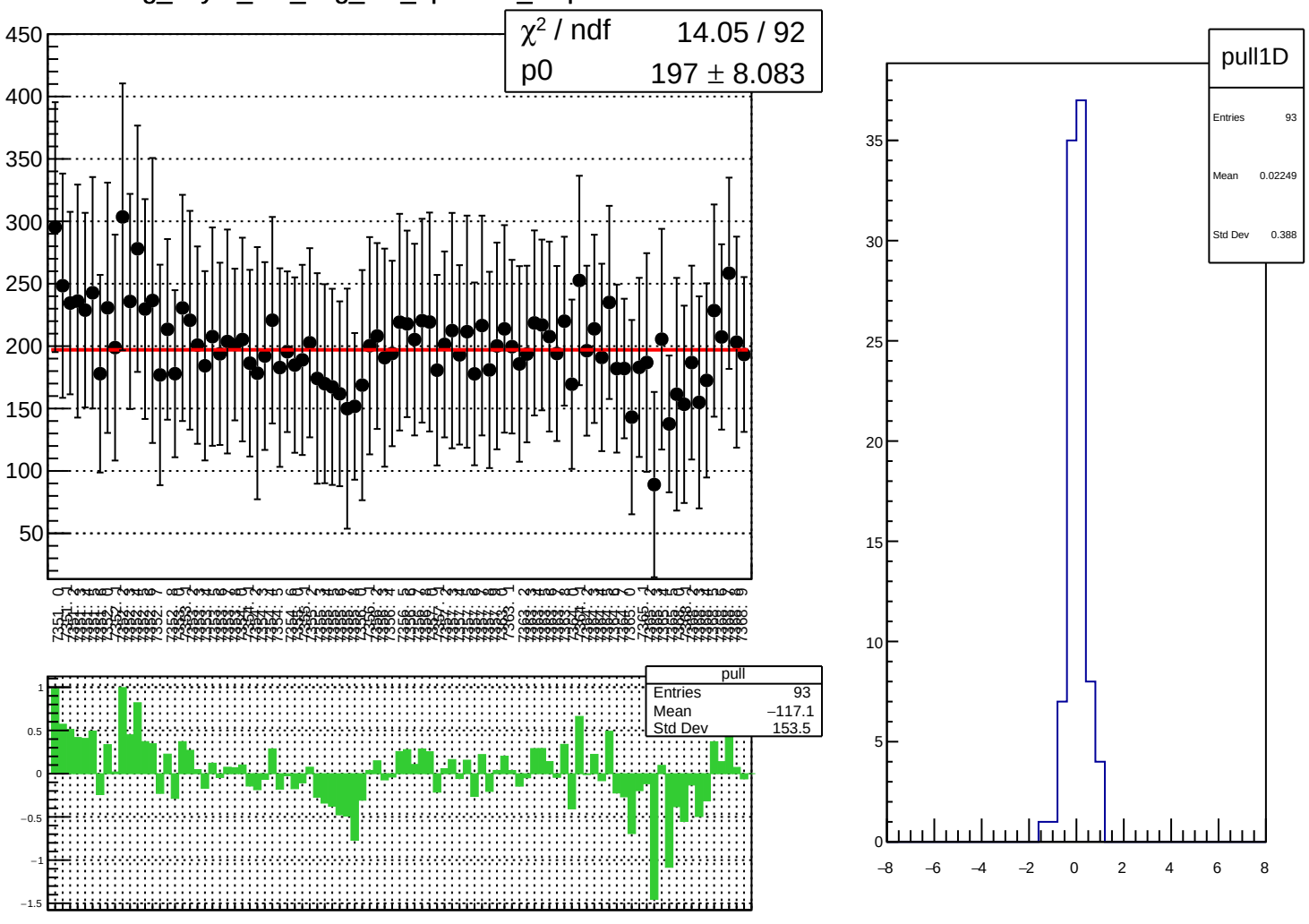

reg_asym_at2_avg_diff_bpm1X_slope vs run
χ² / ndf 28.45 / 92
p0 −284.2 ± 7.801
pull
Entries 93
Mean 255.9
Std Dev 218.9

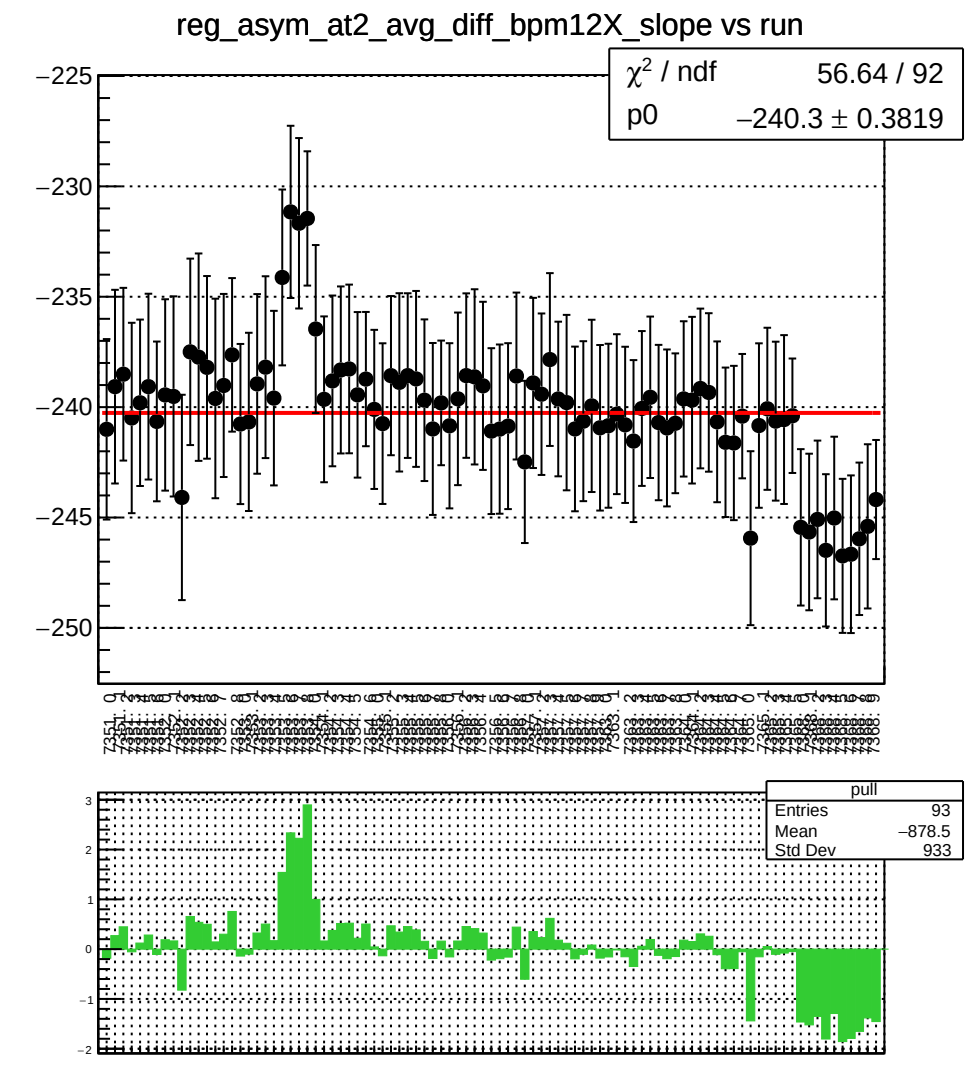

pull1D
Entries 93
Mean −0.02577
Std Dev 0.5525

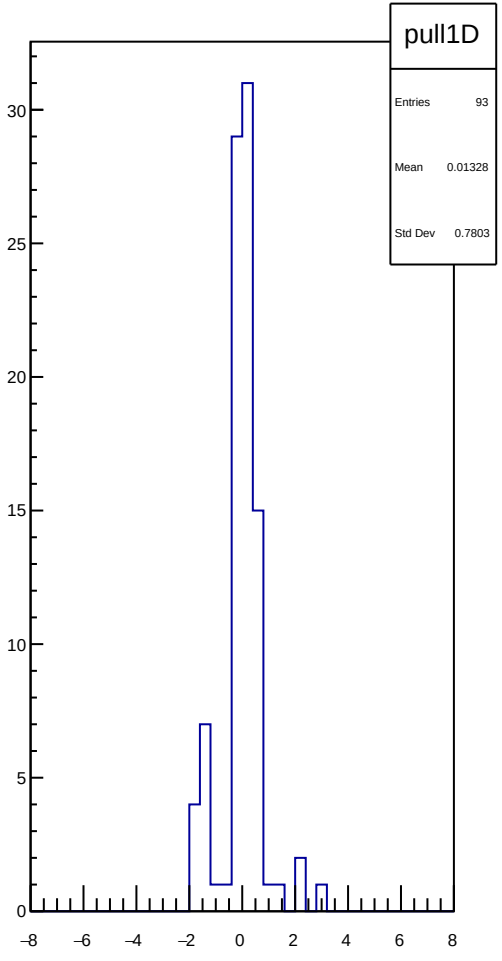

reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ² / ndf 12.91 / 92
p0 −67.22 ± 7.597
pull
Entries 93
Mean −41.05
Std Dev 68.84
pull1D
Entries 93
Mean −0.0266
Std Dev 0.3716

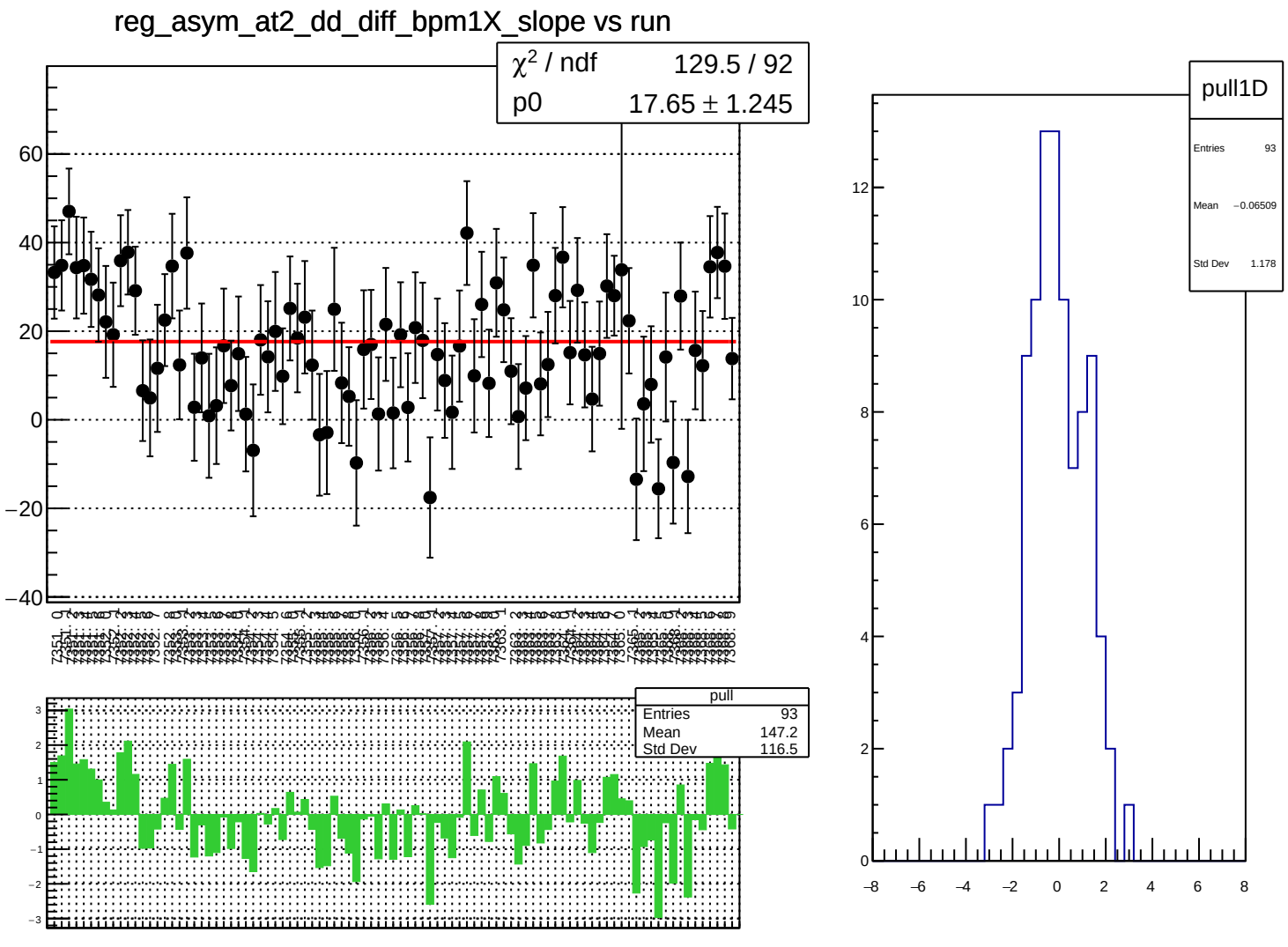

reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ² / ndf 30.24 / 92
p0 305.4 ± 7.764
pull
Entries 93
Mean 271.3
Std Dev 231.3

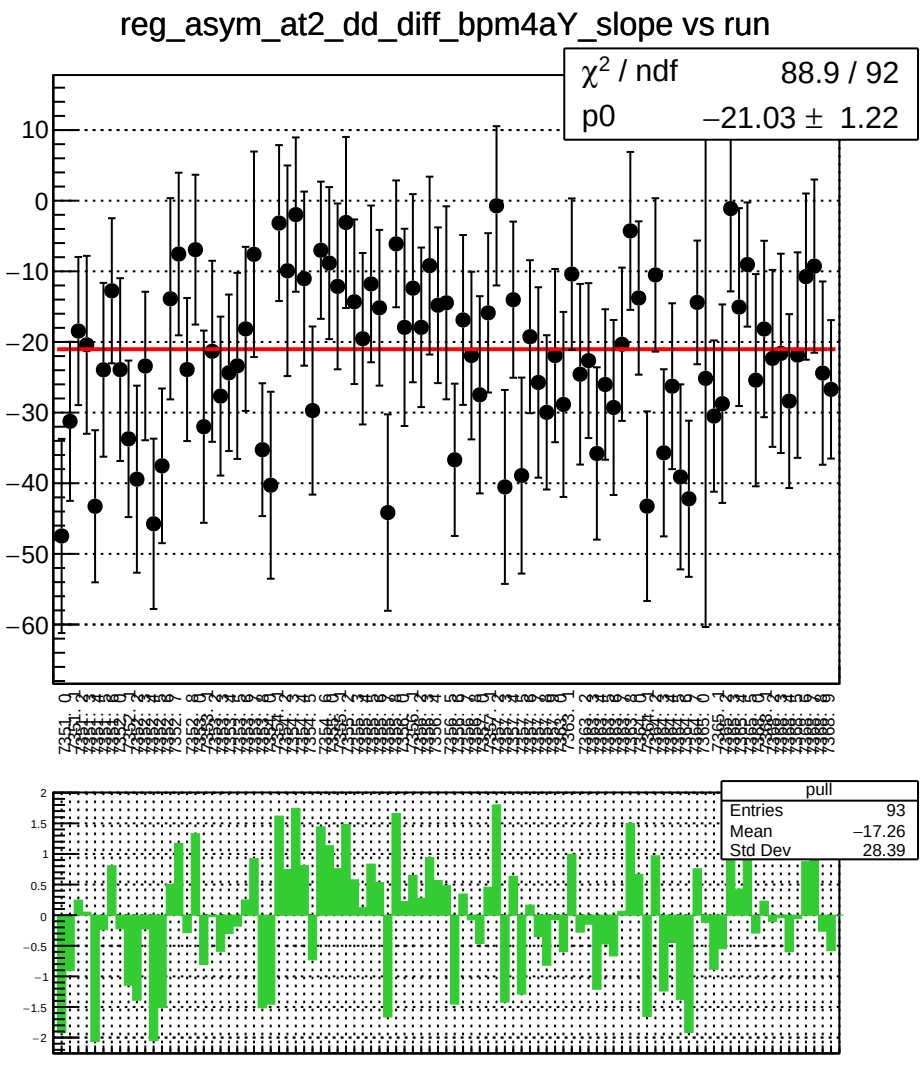

pull1D
Entries 93
Mean 0.02758
Std Dev 0.5695

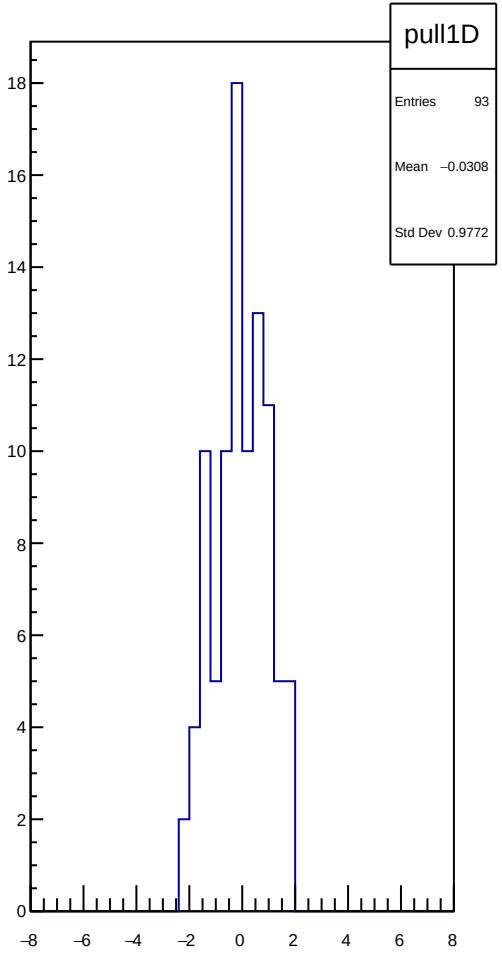

reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ² / ndf 14.05 / 92
p0 197 ± 8.083
pull
Entries 93
Mean −117.1
Std Dev 153.5
pull1D
Entries 93
Mean 0.02249
Std Dev 0.388

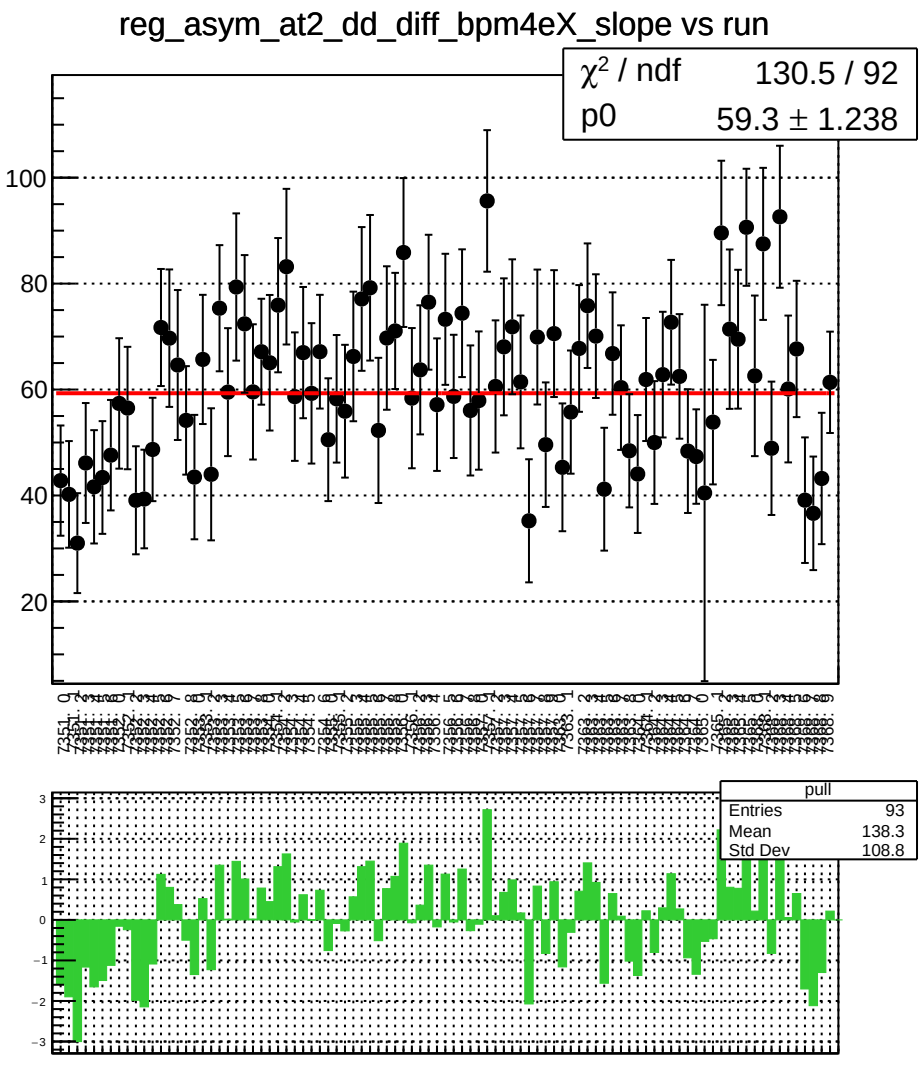

reg_asym_at2_avg_diff_bpm12X_slope vs run
χ² / ndf 56.64 / 92
p0 −240.3 ± 0.3819
pull
Entries 93
Mean −878.5
Std Dev 933

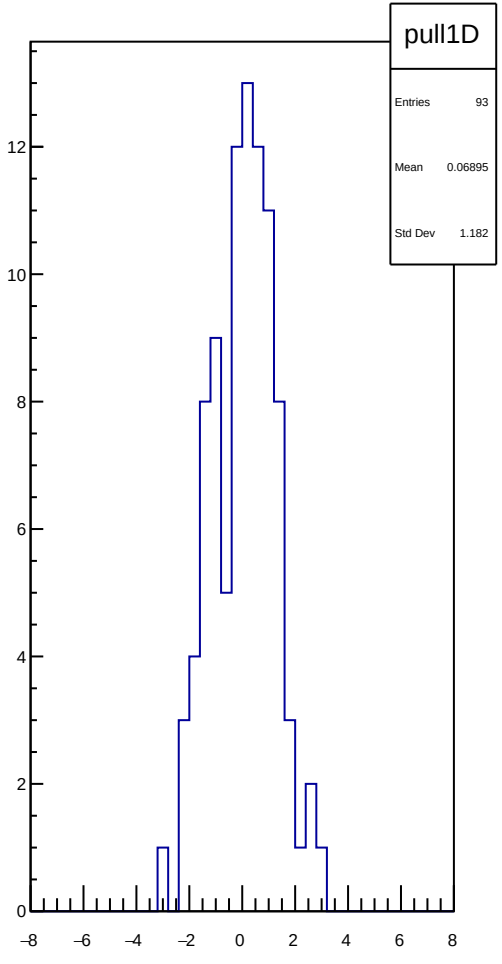

pull1D
Entries 93
Mean 0.01328
Std Dev 0.7803

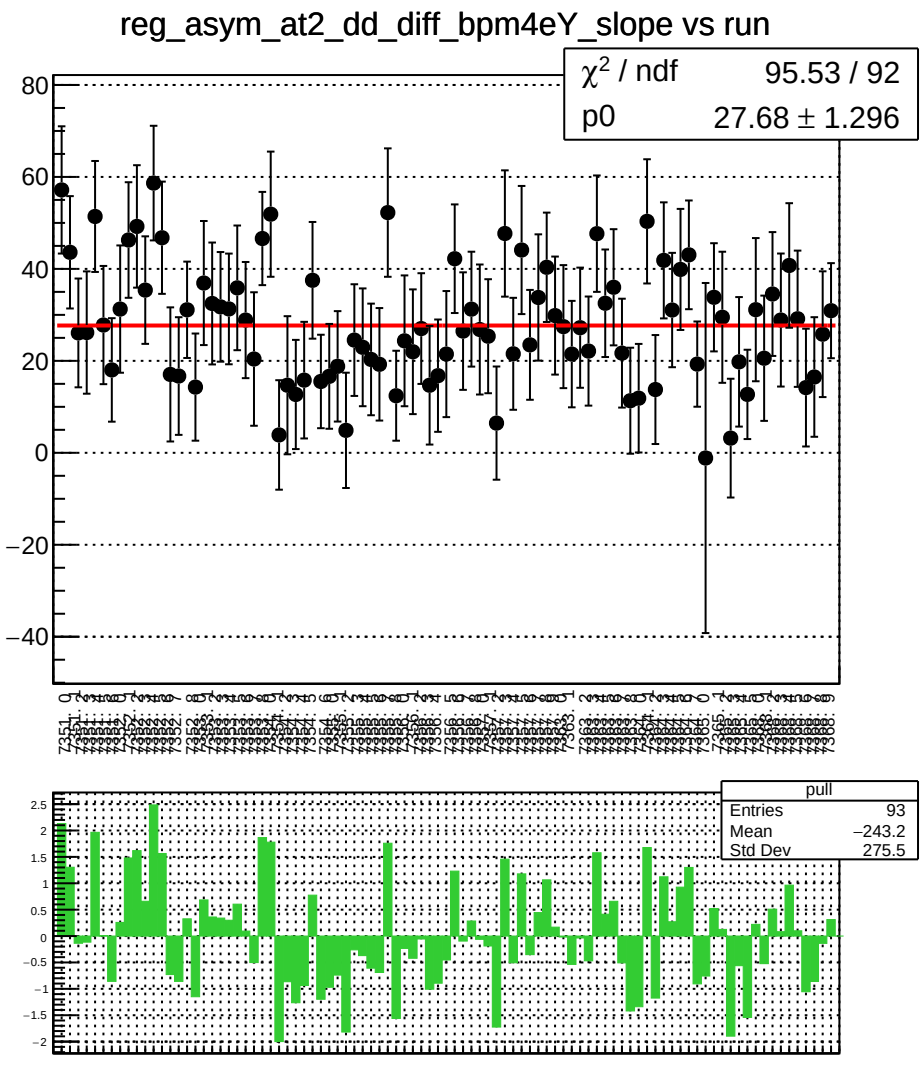

reg_asym_at2_dd_diff_bpm1X_slope vs run
χ² / ndf 129.5 / 92
p0 17.65 ± 1.245
pull
Entries 93
Mean 147.2
Std Dev 116.5
pull1D
Entries 93
Mean −0.06509
Std Dev 1.178

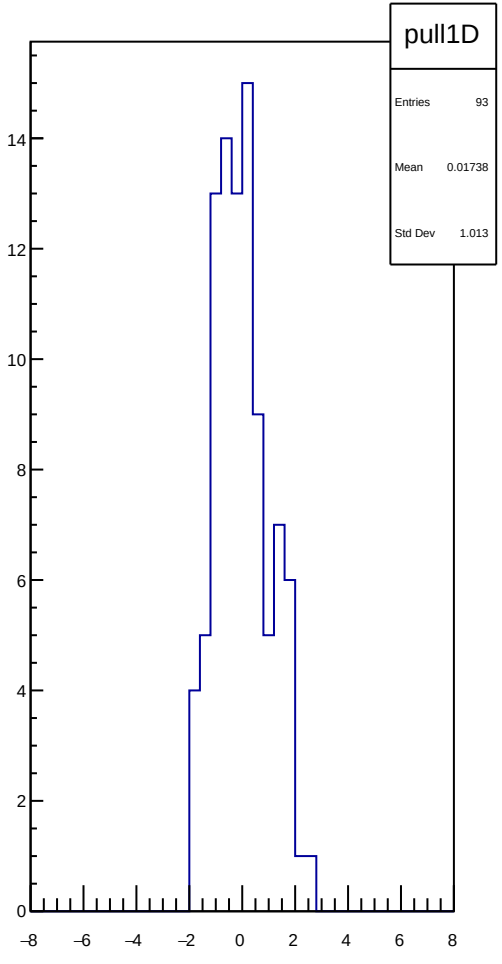

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ² / ndf 88.9 / 92
p0 −21.03 ± 1.22
pull
Entries 93
Mean −17.26
Std Dev 28.39

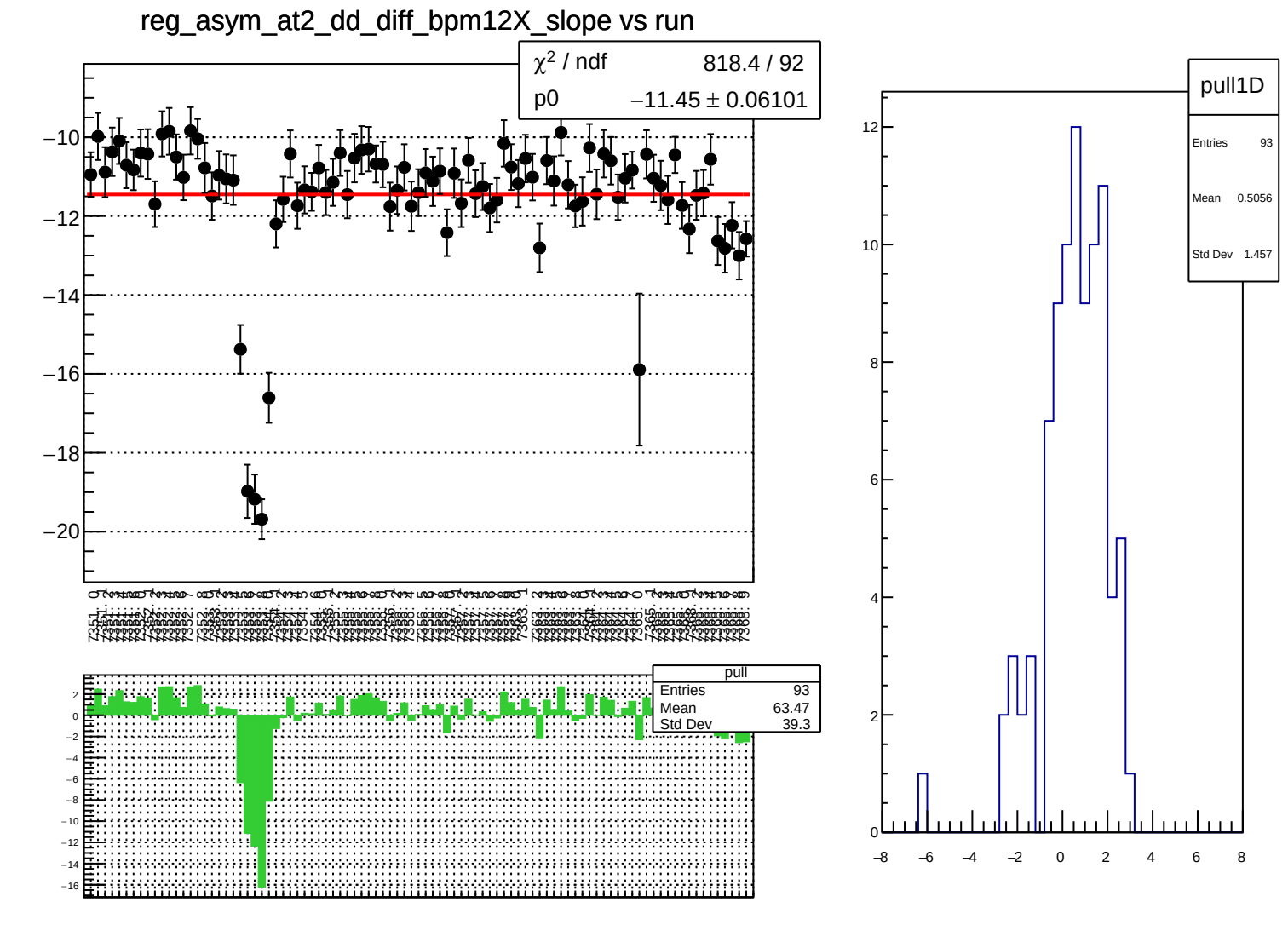

pull1D
Entries 93
Mean −0.0308
Std Dev 0.9772

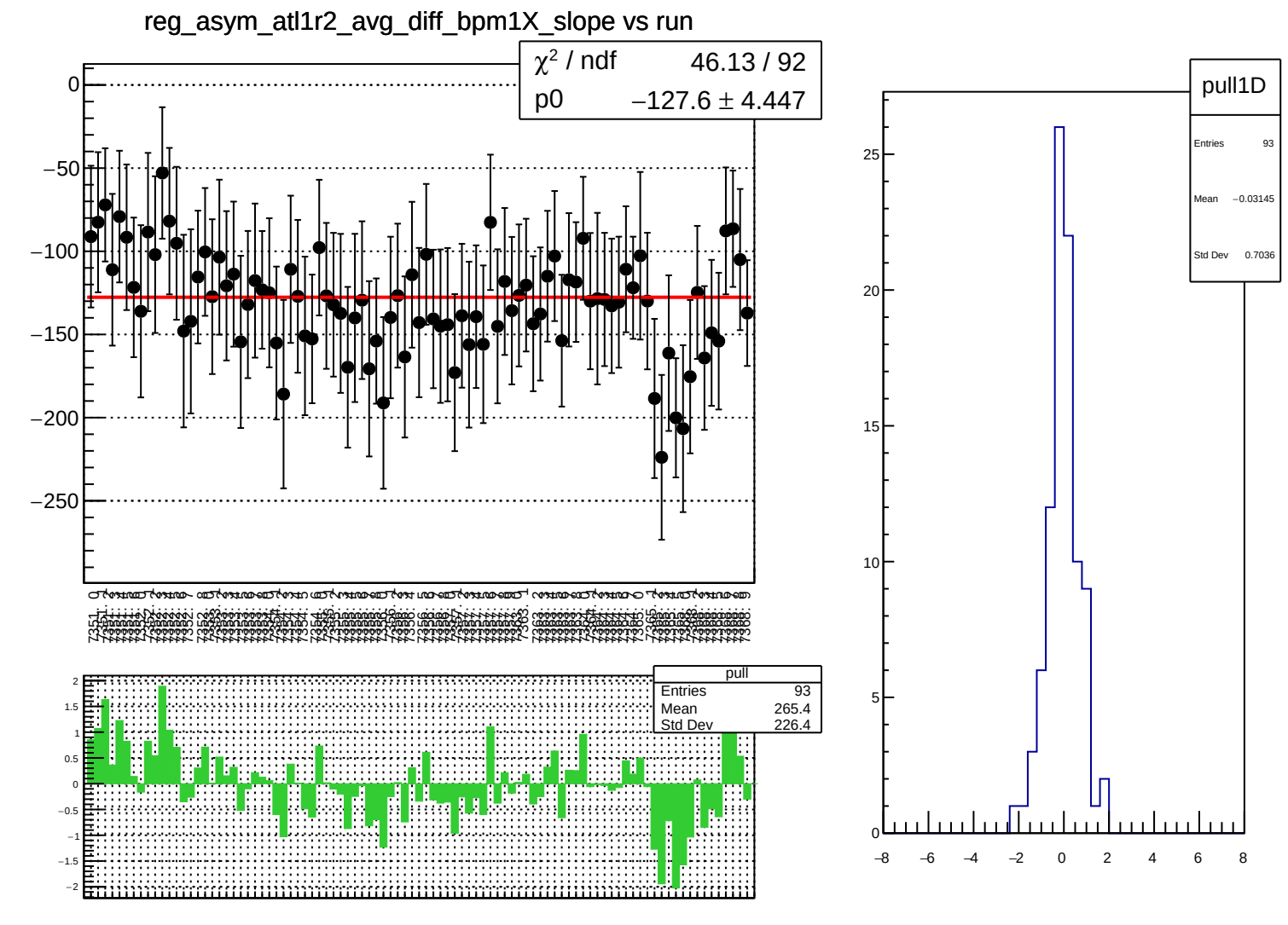

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ² / ndf 130.5 / 92
p0 59.3 ± 1.238
100
80
60
40
20
pull
Entries 93
Mean 138.3
Std Dev 108.8
3
2
1
0
−1
−2
−3

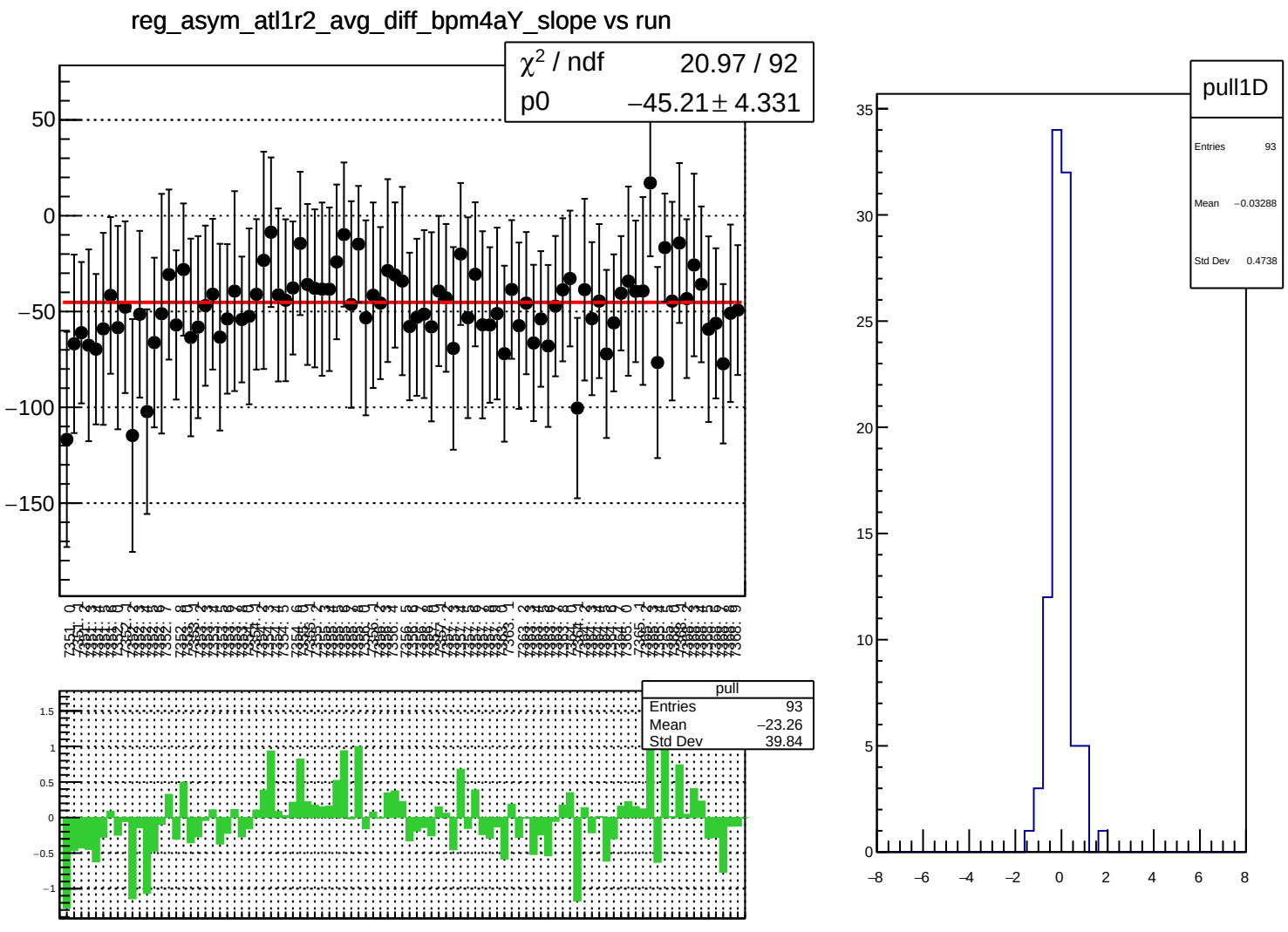

pull1D
Entries 93
Mean 0.06895
Std Dev 1.182
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

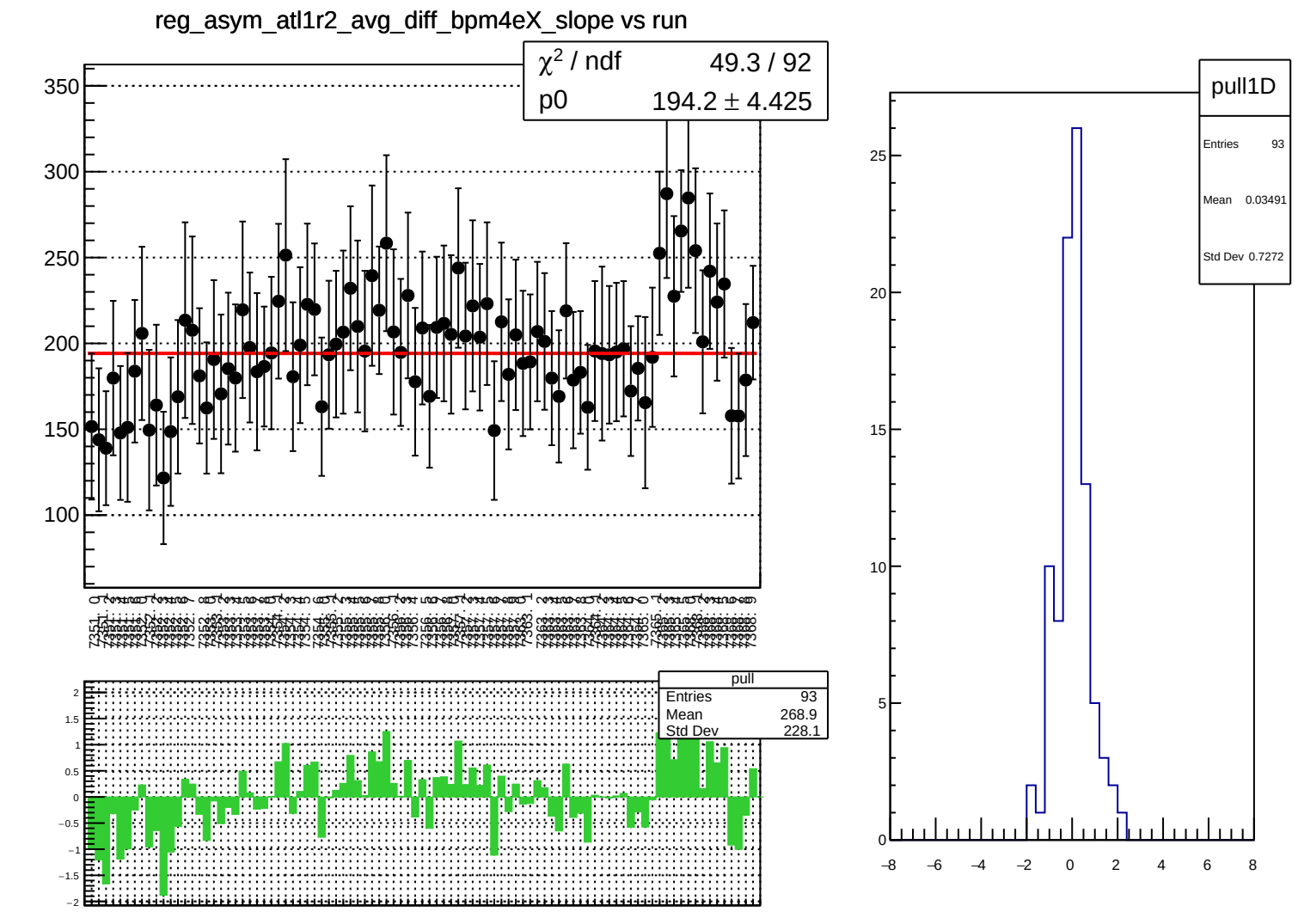

reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ² / ndf 95.53 / 92
p0 27.68 ± 1.296
pull
Entries 93
Mean −243.2
Std Dev 275.5

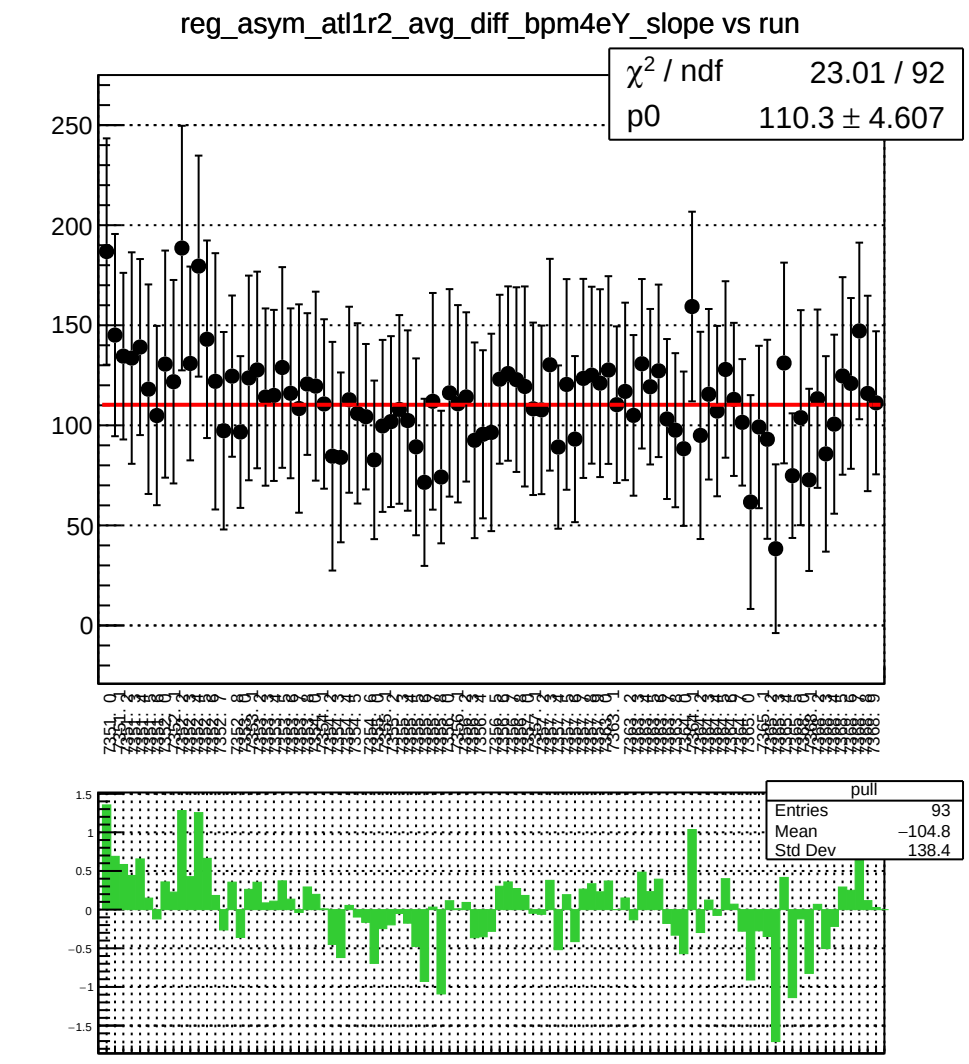

pull1D
Entries 93
Mean 0.01738
Std Dev 1.013

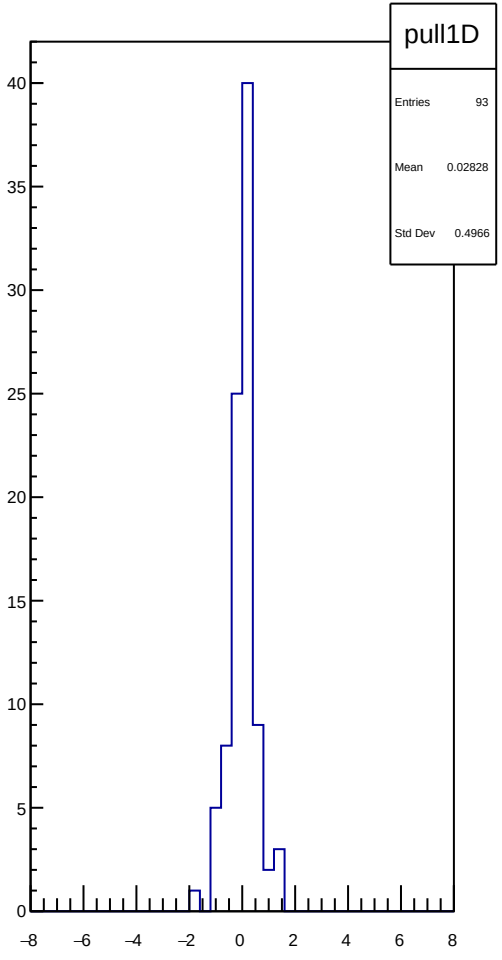

reg_asym_at2_dd_diff_bpm12X_slope vs run
χ² / ndf 818.4 / 92
p0 −11.45 ± 0.06101
pull
Entries 93
Mean 63.47
Std Dev 39.3
pull1D
Entries 93
Mean 0.5056
Std Dev 1.457

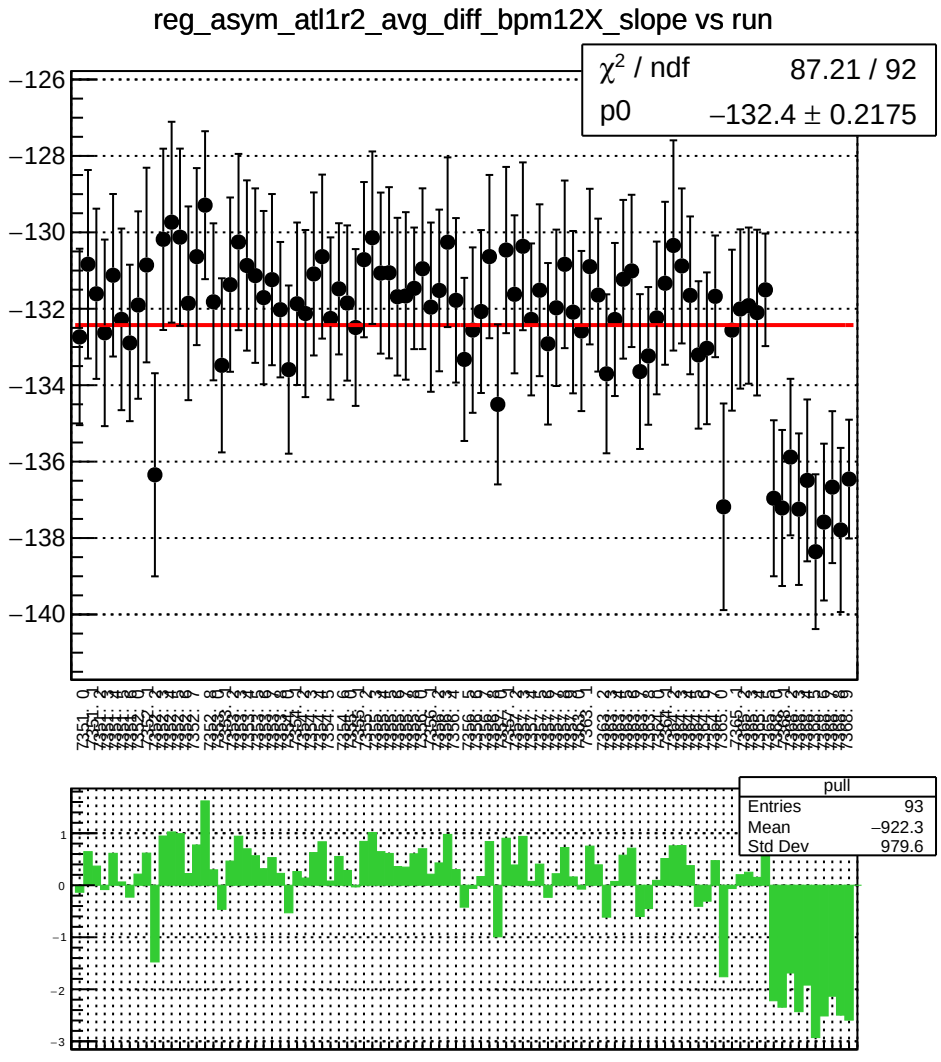

reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ² / ndf 46.13 / 92
p0 −127.6 ± 4.447
pull
Entries 93
Mean 265.4
Std Dev 226.4
pull1D
Entries 93
Mean −0.03145
Std Dev 0.7036

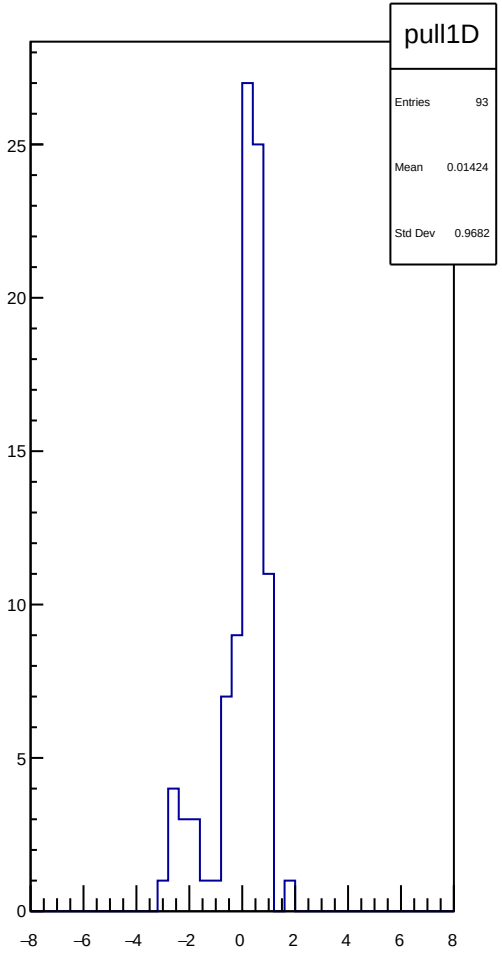

reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ² / ndf 20.97 / 92
p0 −45.21 ± 4.331
50
0
−50
−100
−150
pull
Entries 93
Mean −23.26
Std Dev 39.84
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.03288
Std Dev 0.4738
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

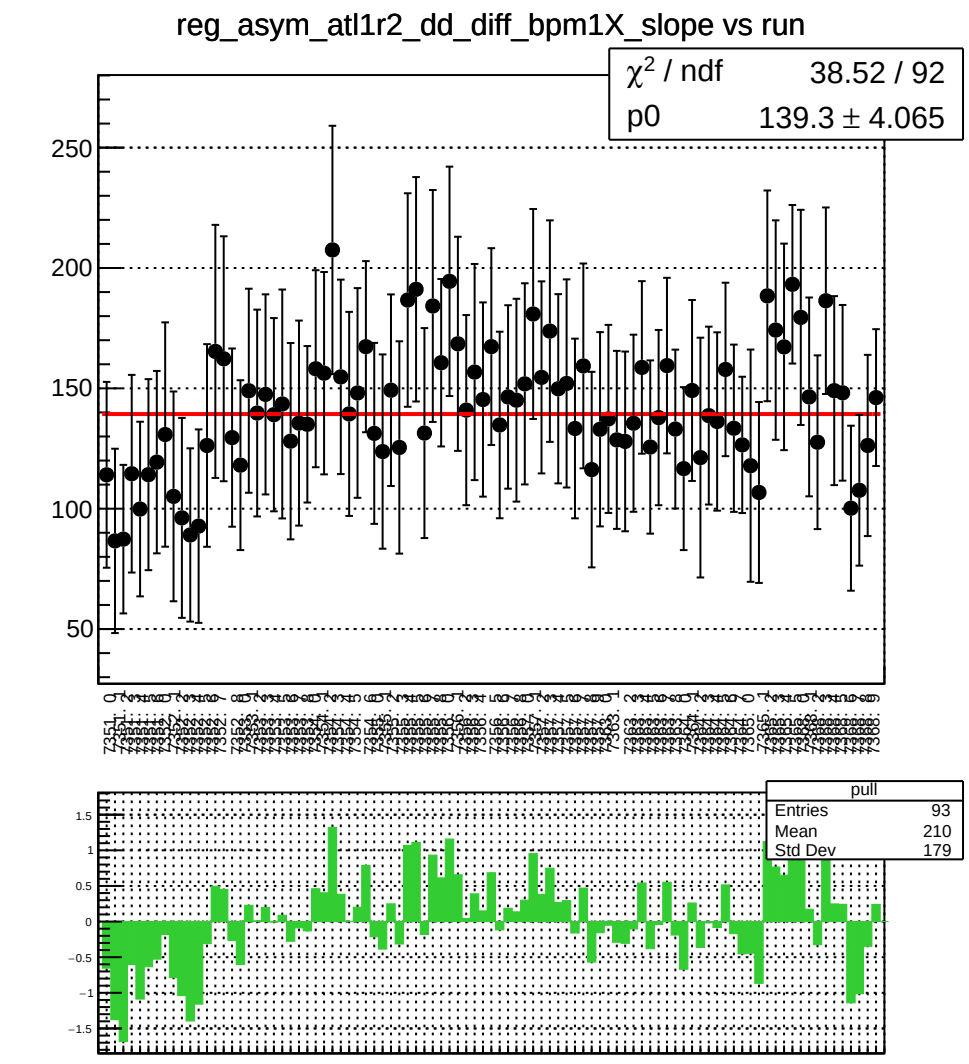

reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ² / ndf 49.3 / 92
p0 194.2 ± 4.425
350
300
250
200
150
100
pull
Entries 93
Mean 268.9
Std Dev 228.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 93
Mean 0.03491
Std Dev 0.7272
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

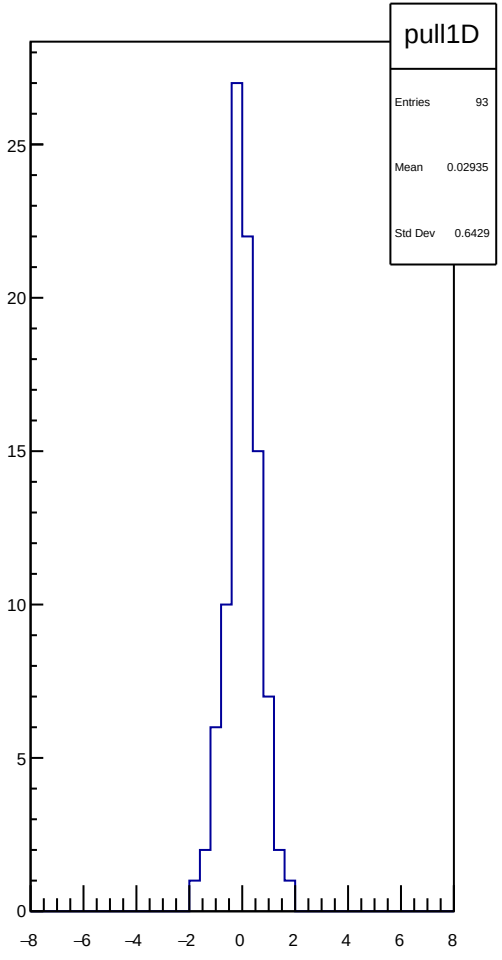

reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ² / ndf 23.01 / 92
p0 110.3 ± 4.607
250
200
150
100
50
0
pull
Entries 93
Mean −104.8
Std Dev 138.4
1.5
1
0.5
0
−0.5
−1
−1.5

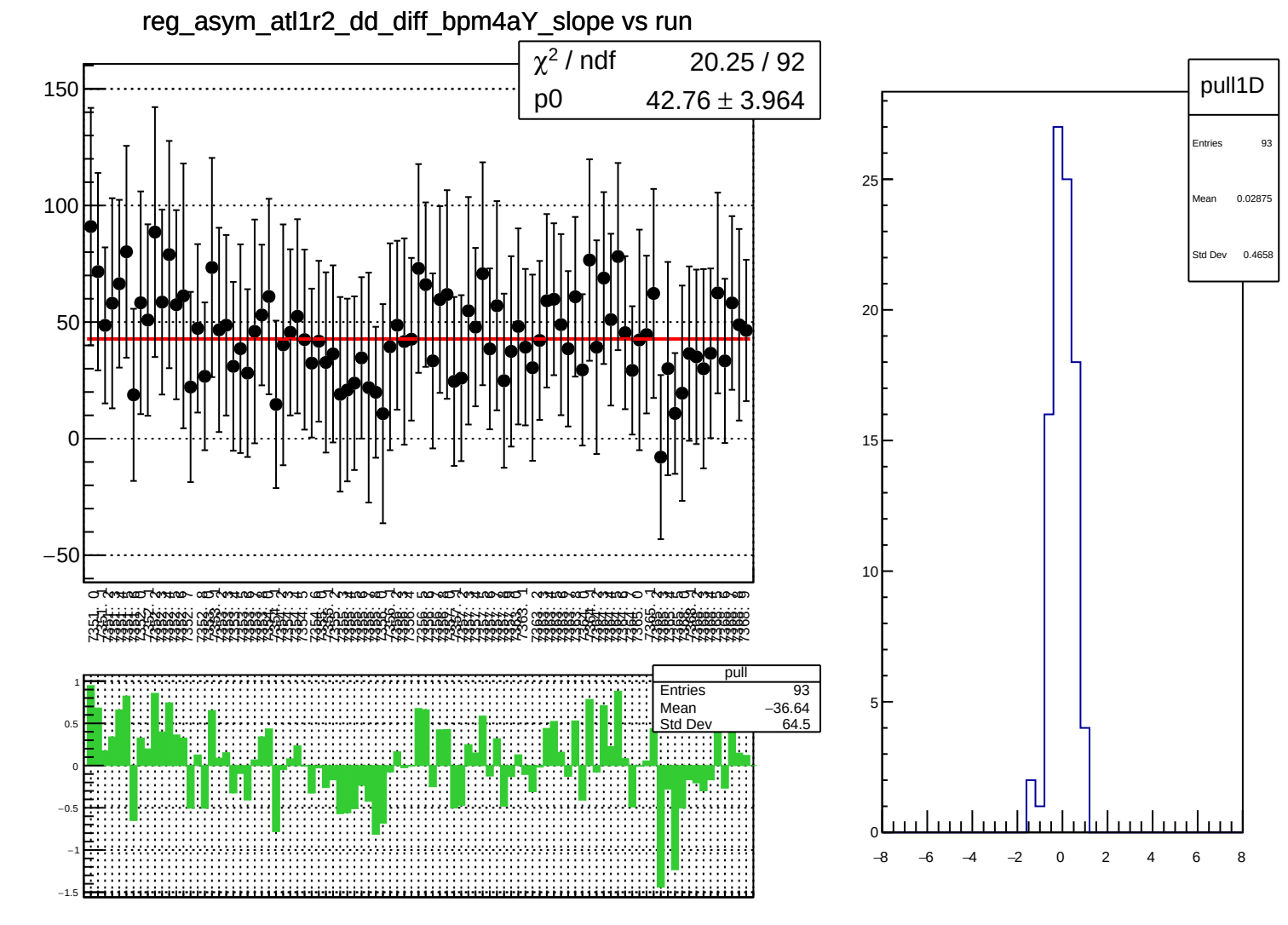

pull1D
Entries 93
Mean 0.02828
Std Dev 0.4966
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

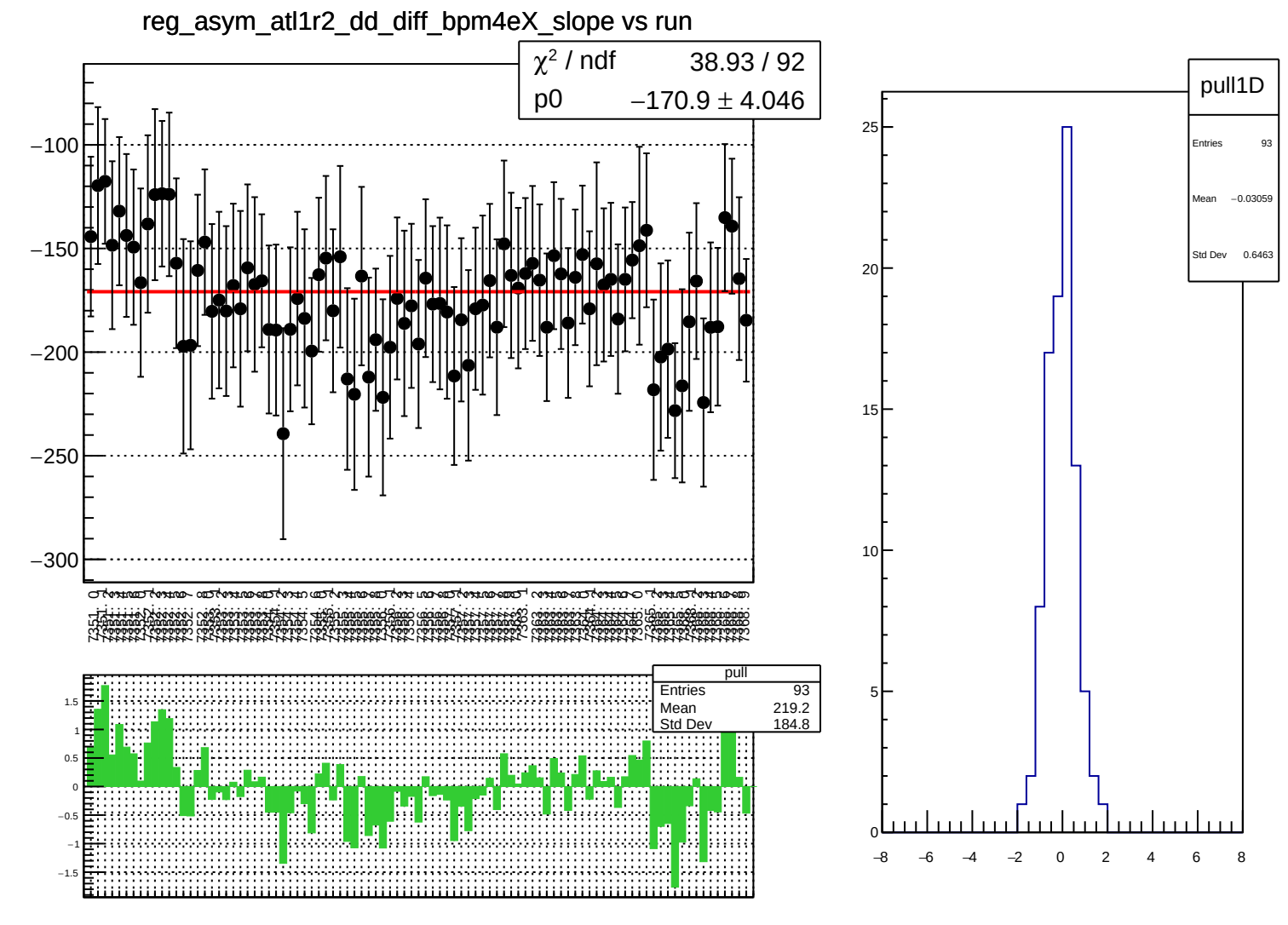

reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ² / ndf 87.21 / 92
p0 −132.4 ± 0.2175
pull
Entries 93
Mean −922.3
Std Dev 979.6

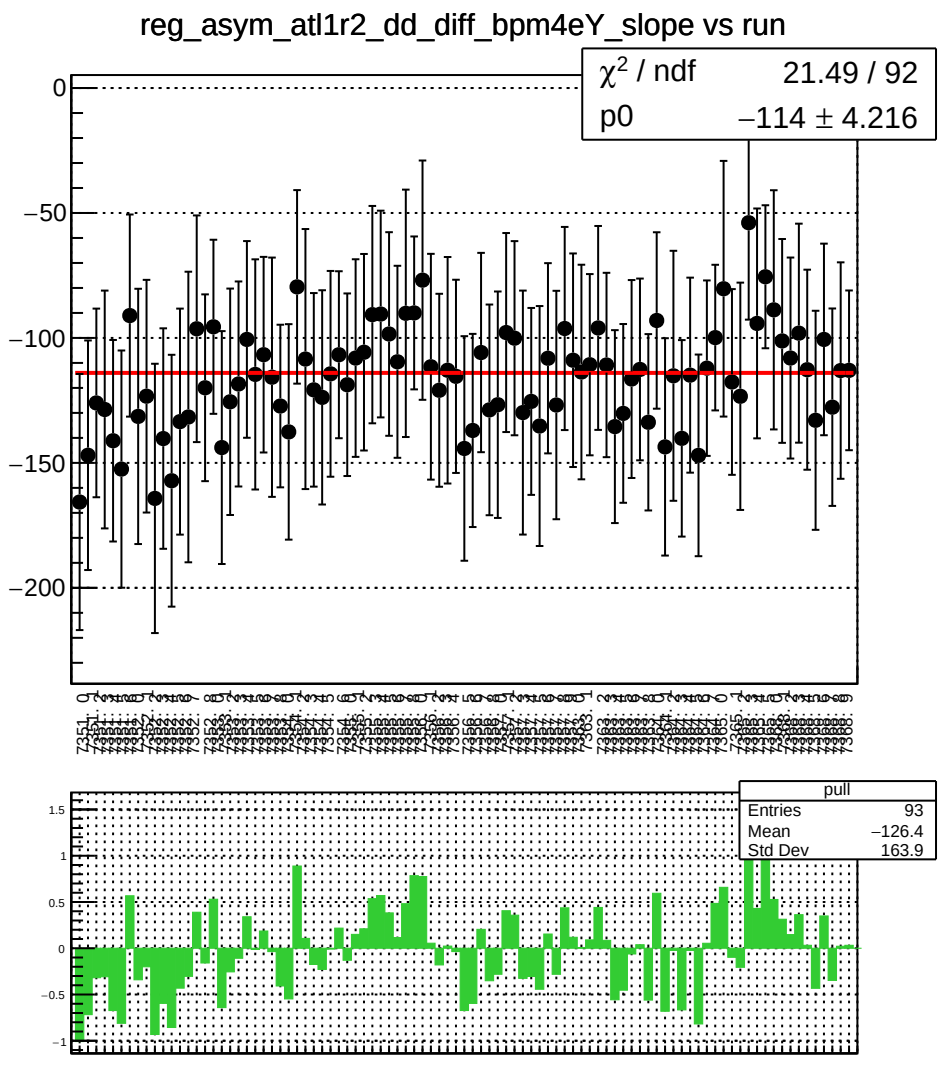

pull1D
Entries 93
Mean 0.01424
Std Dev 0.9682

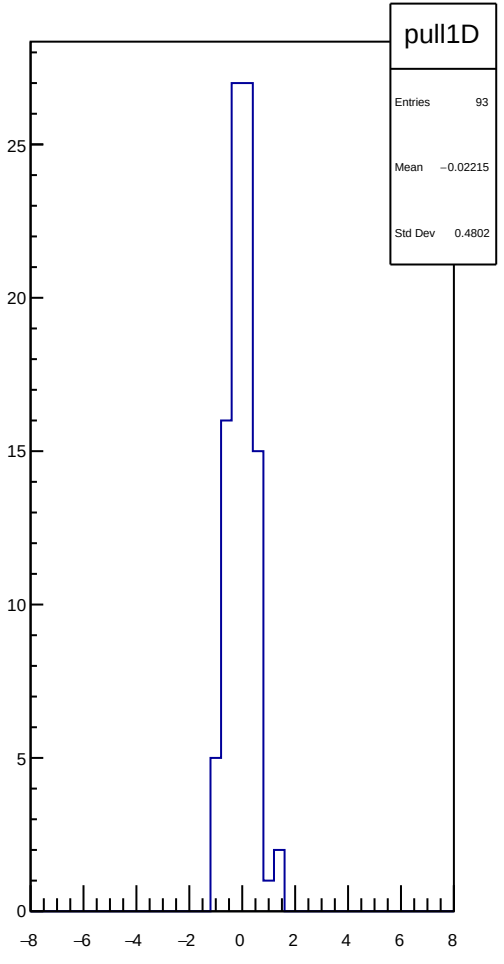

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ² / ndf 38.52 / 92
p0 139.3 ± 4.065
250
200
150
100
50
pull
Entries 93
Mean 210
Std Dev 179
1.5
1
0.5
0
−0.5
−1
−1.5

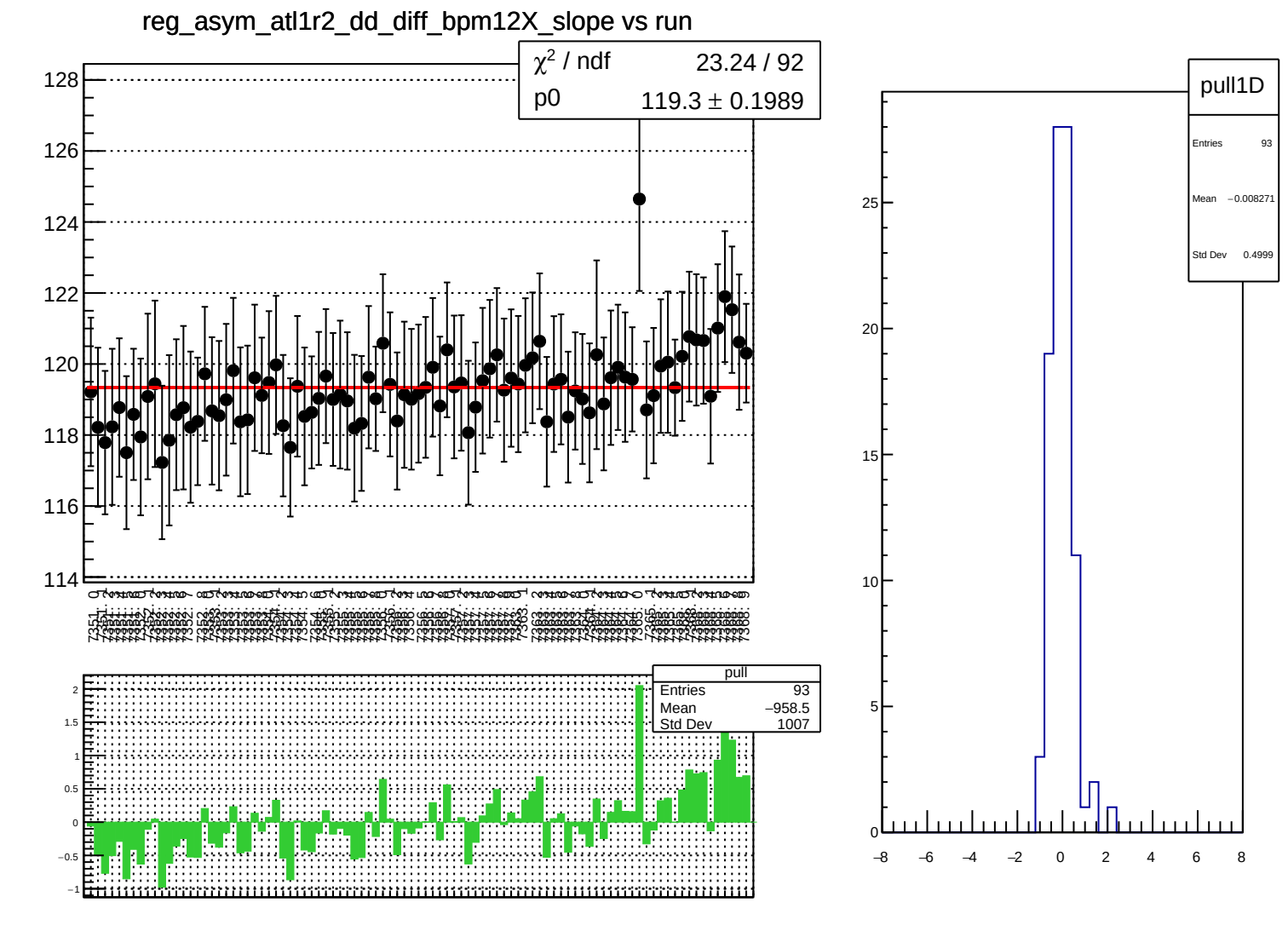

pull1D
Entries 93
Mean 0.02935
Std Dev 0.6429
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

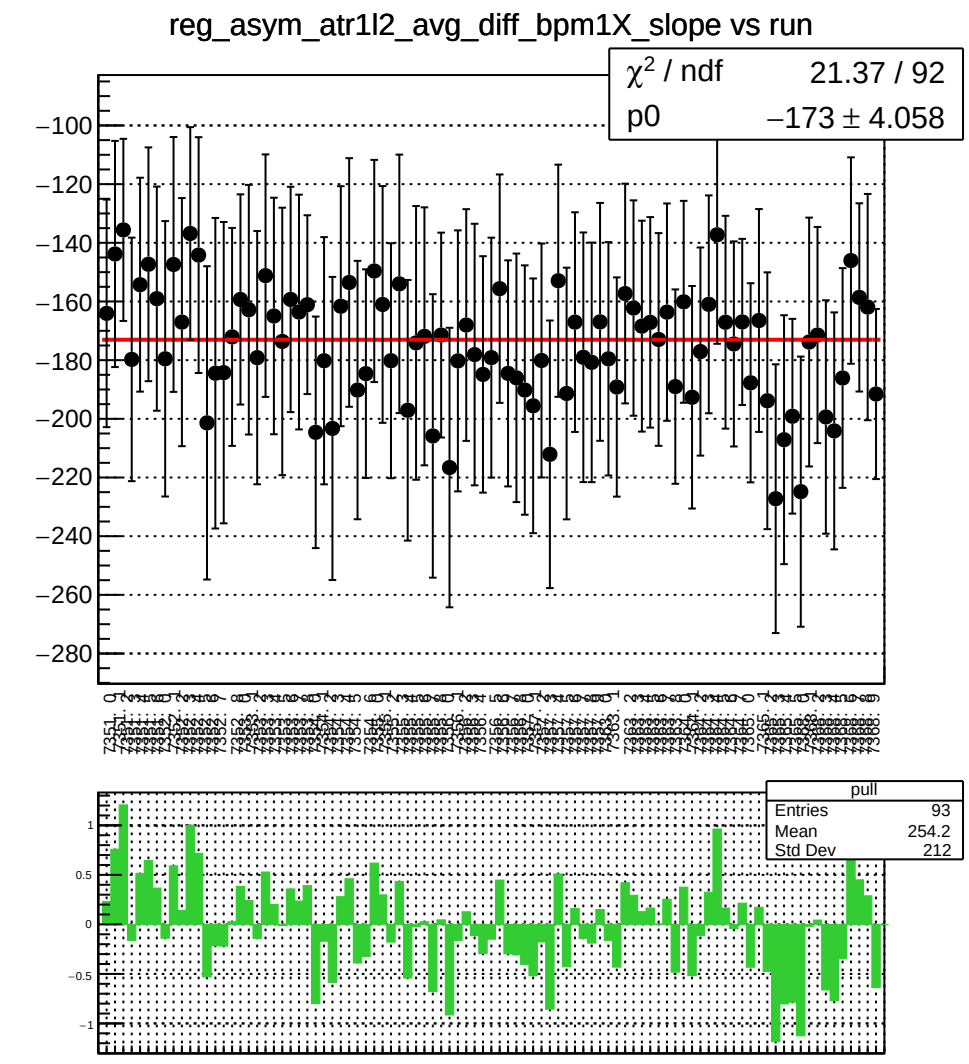

reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ² / ndf 20.25 / 92
p0 42.76 ± 3.964
150
100
50
0
−50
pull
Entries 93
Mean −36.64
Std Dev 64.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02875
Std Dev 0.4658
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

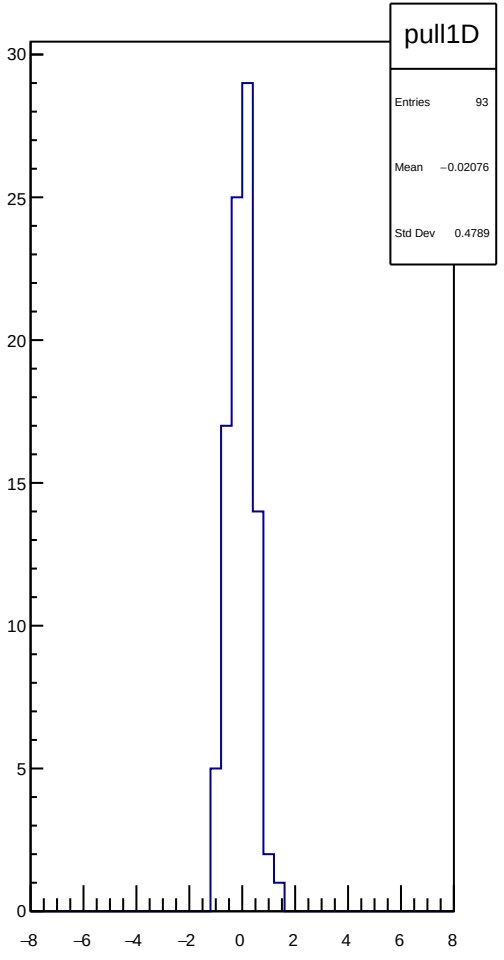

reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ² / ndf 38.93 / 92
p0 −170.9 ± 4.046
−100
−150
−200
−250
−300
pull
Entries 93
Mean 219.2
Std Dev 184.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.03059
Std Dev 0.6463
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

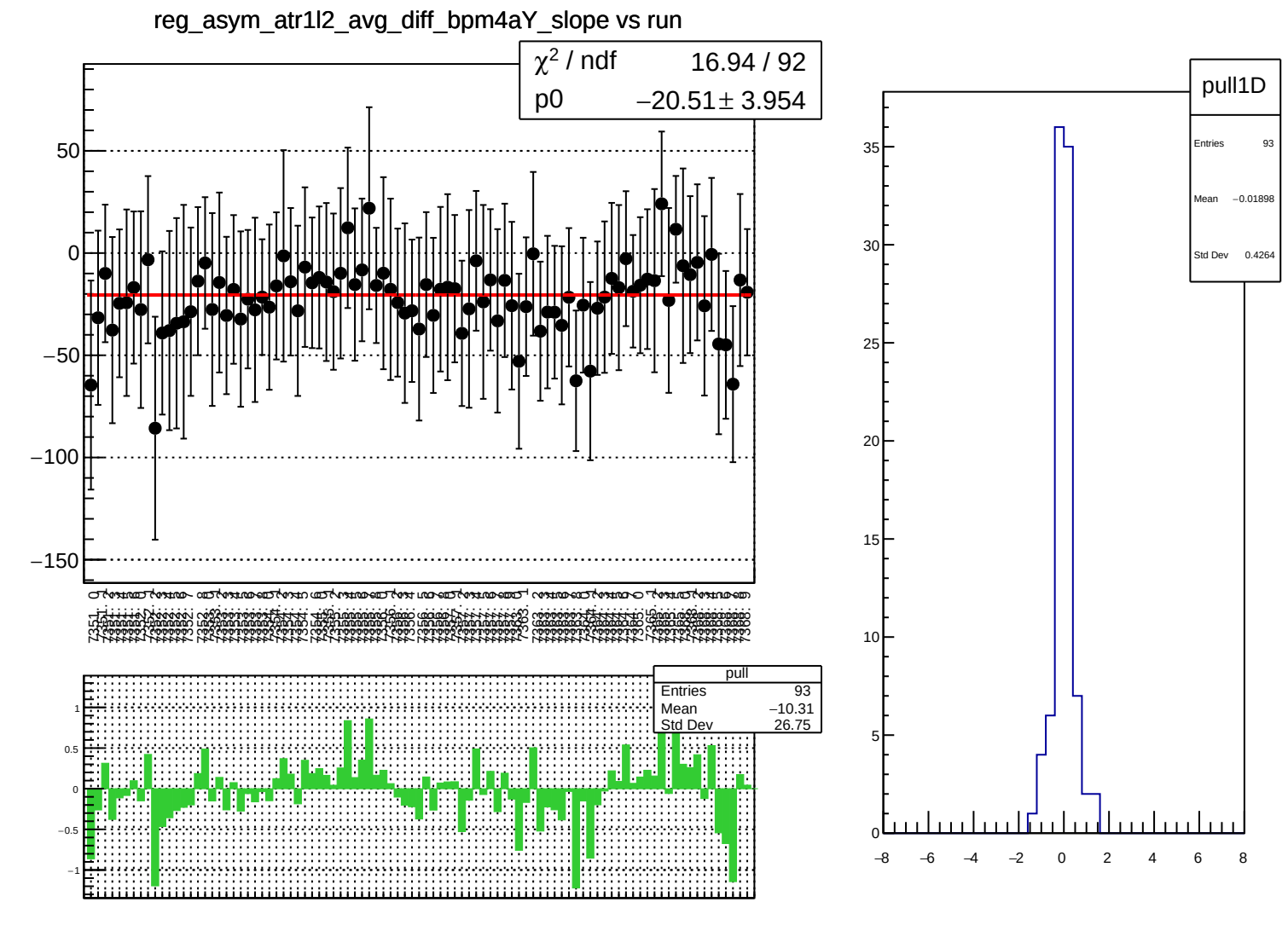

reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ² / ndf 21.49 / 92
p0 −114 ± 4.216
0
−50
−100
−150
−200
pull
Entries 93
Mean −126.4
Std Dev 163.9
1.5
1
0.5
0
−0.5
−1

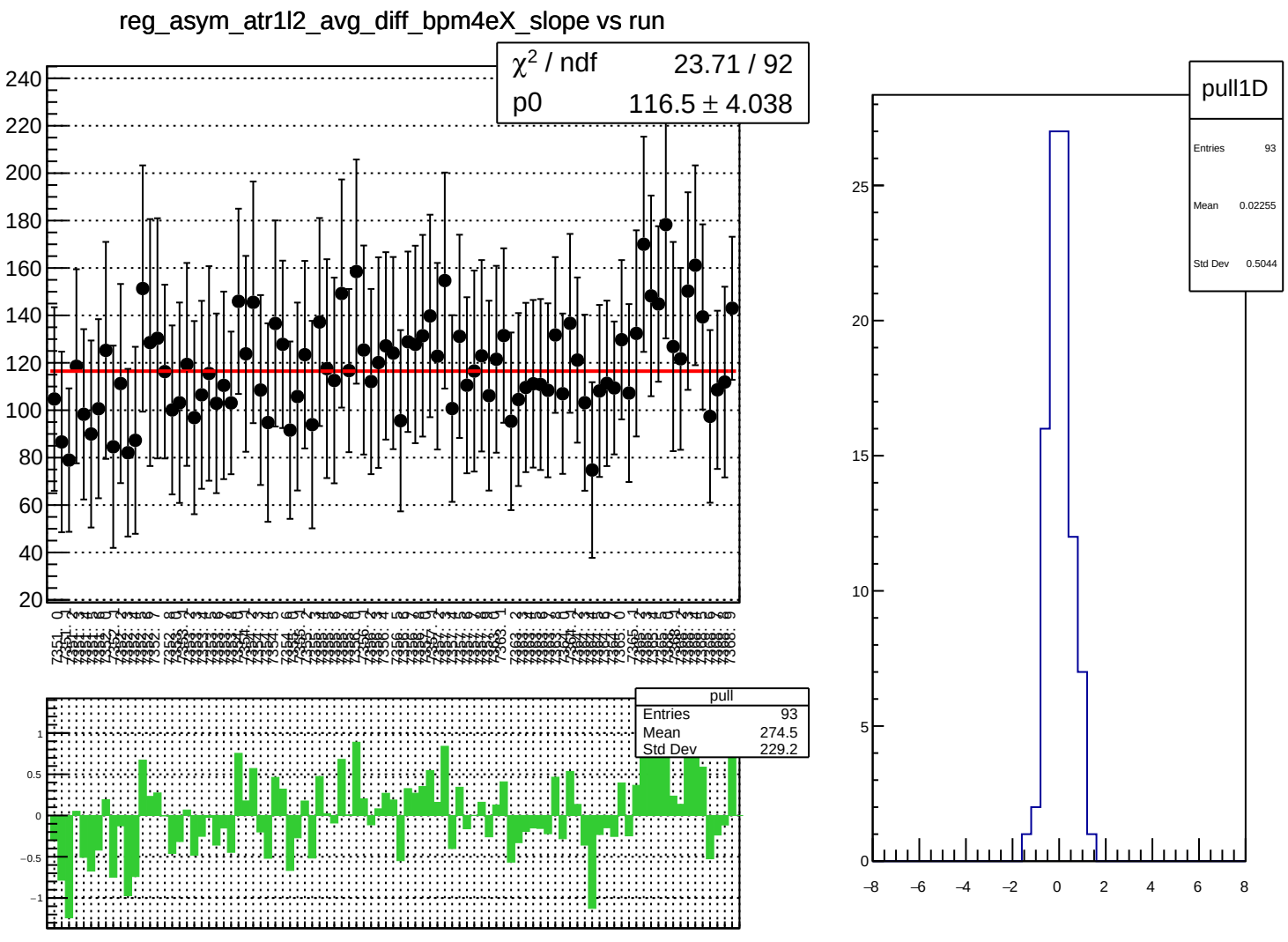

pull1D
Entries 93
Mean −0.02215
Std Dev 0.4802
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

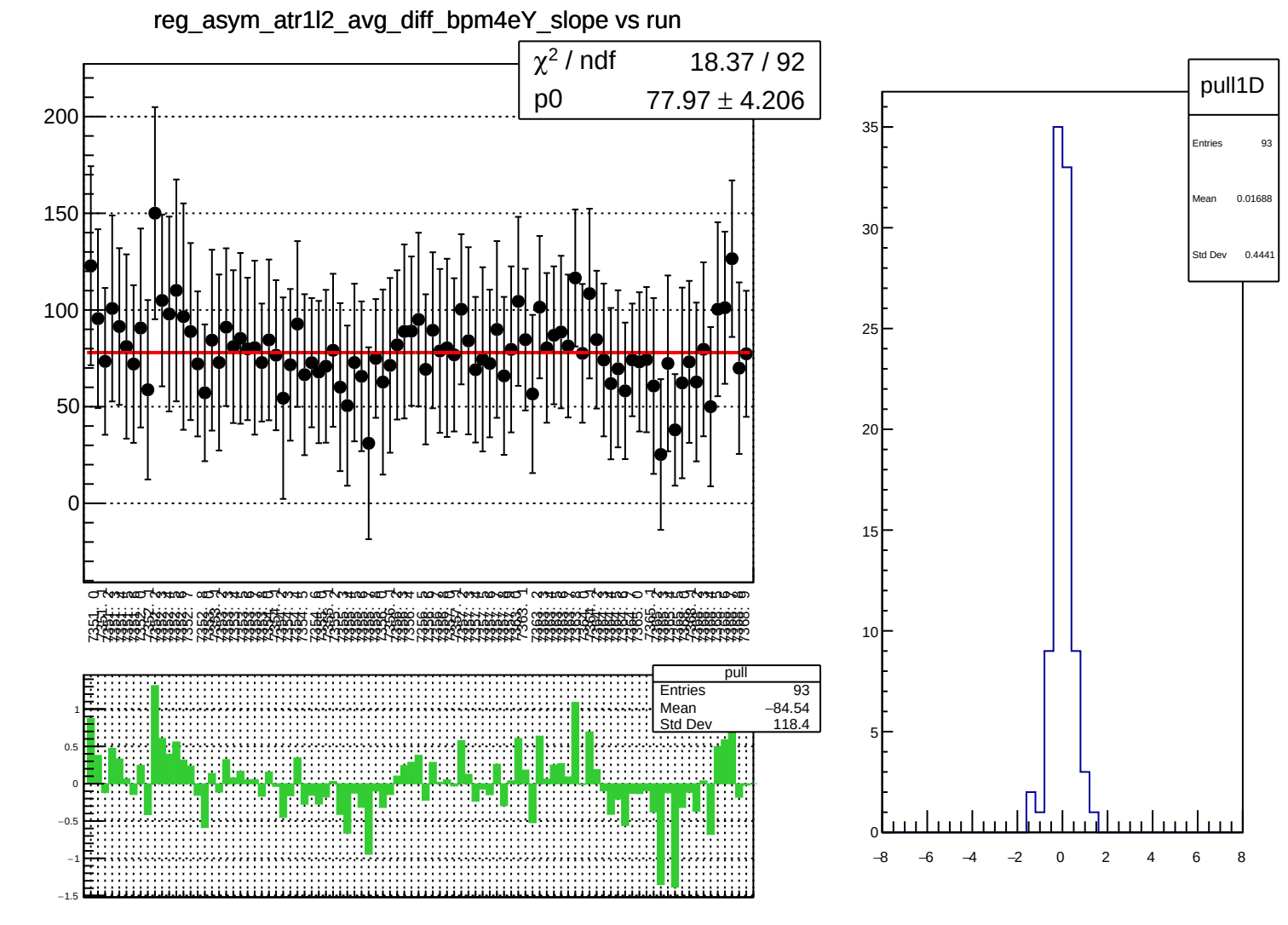

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ² / ndf 23.24 / 92
p0 119.3 ± 0.1989
pull
Entries 93
Mean −958.5
Std Dev 1007
pull1D
Entries 93
Mean −0.008271
Std Dev 0.4999

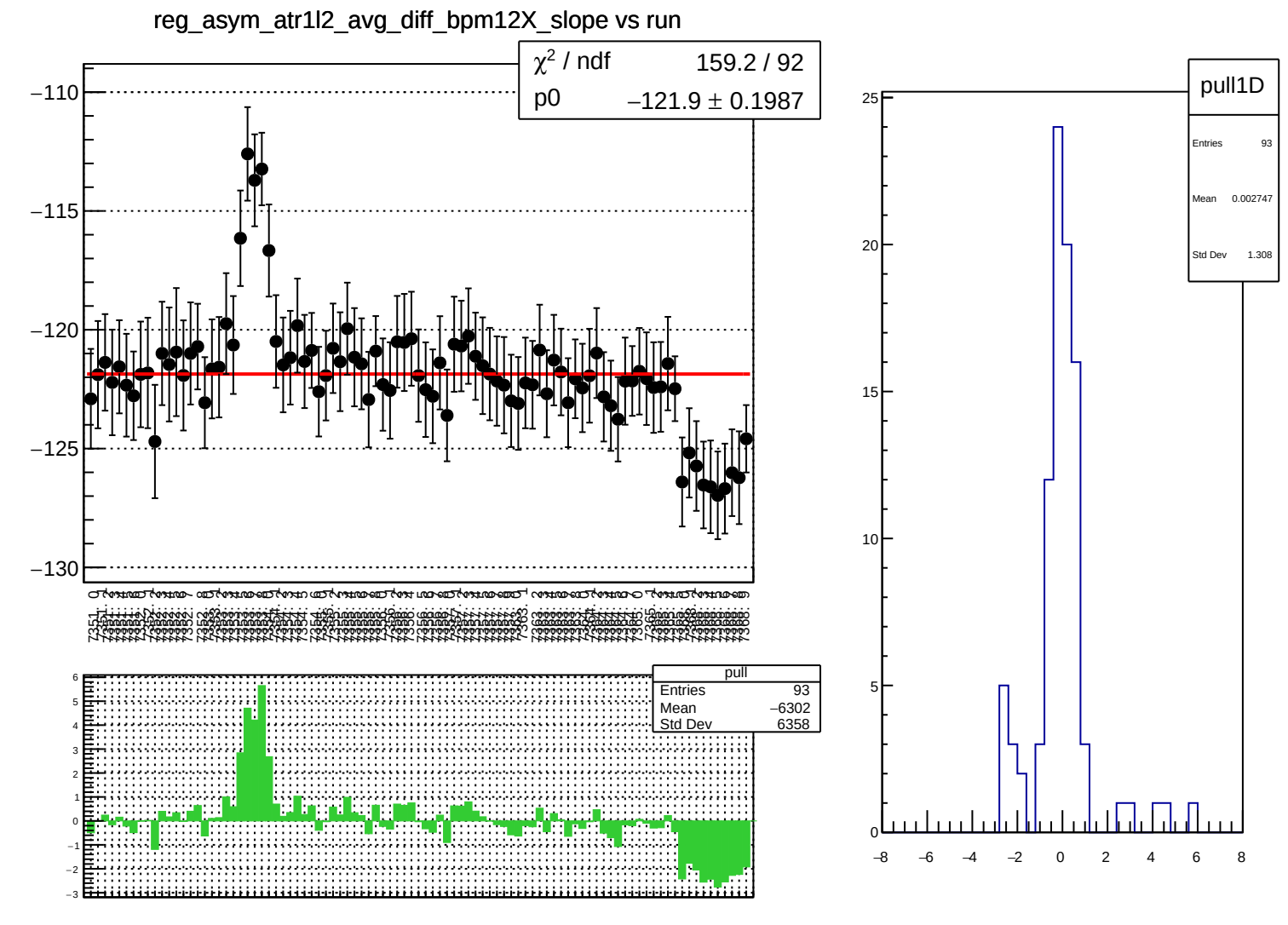

reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ² / ndf 21.37 / 92
p0 −173 ± 4.058
pull
Entries 93
Mean 254.2
Std Dev 212

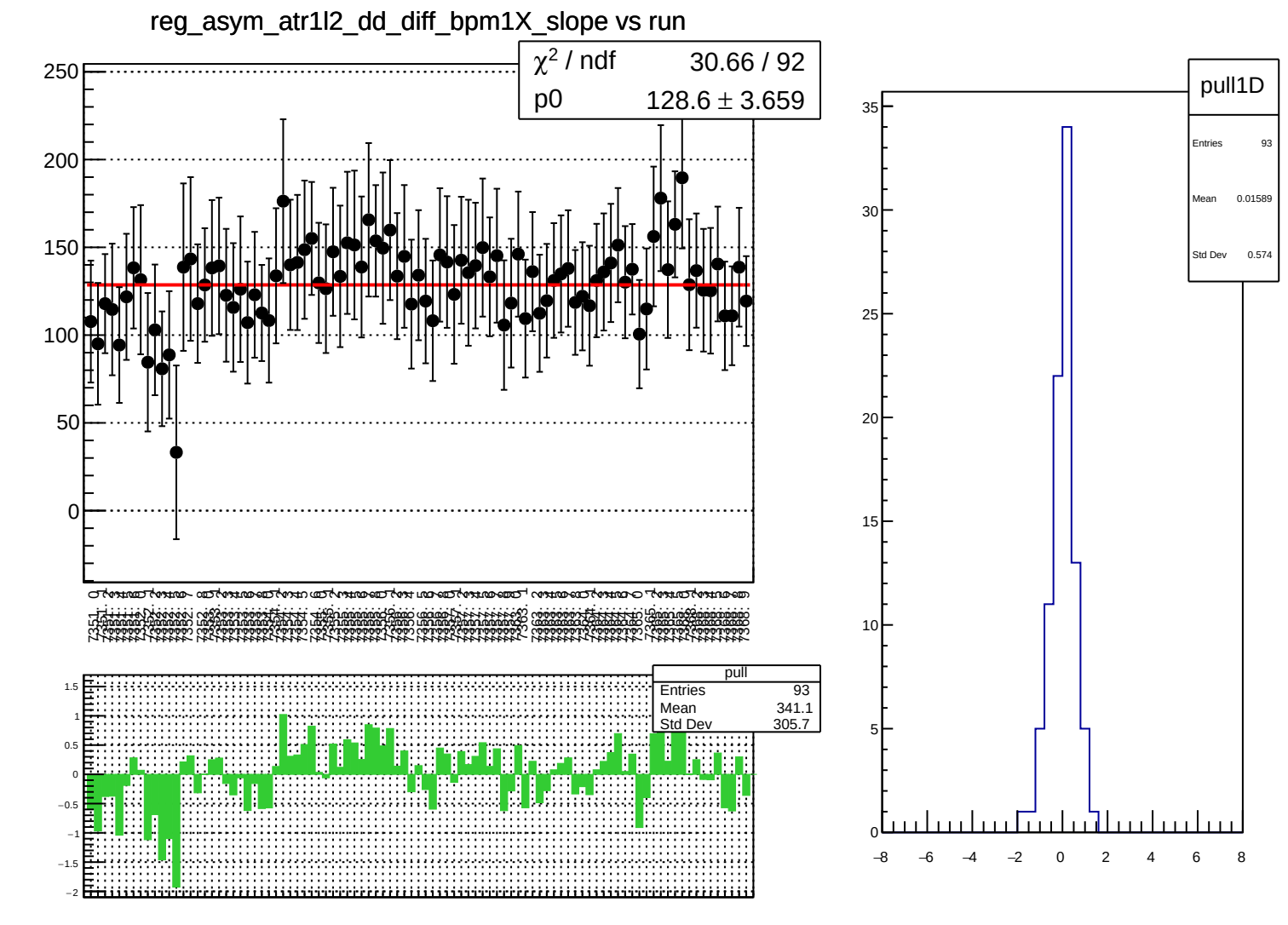

pull1D
Entries 93
Mean −0.02076
Std Dev 0.4789

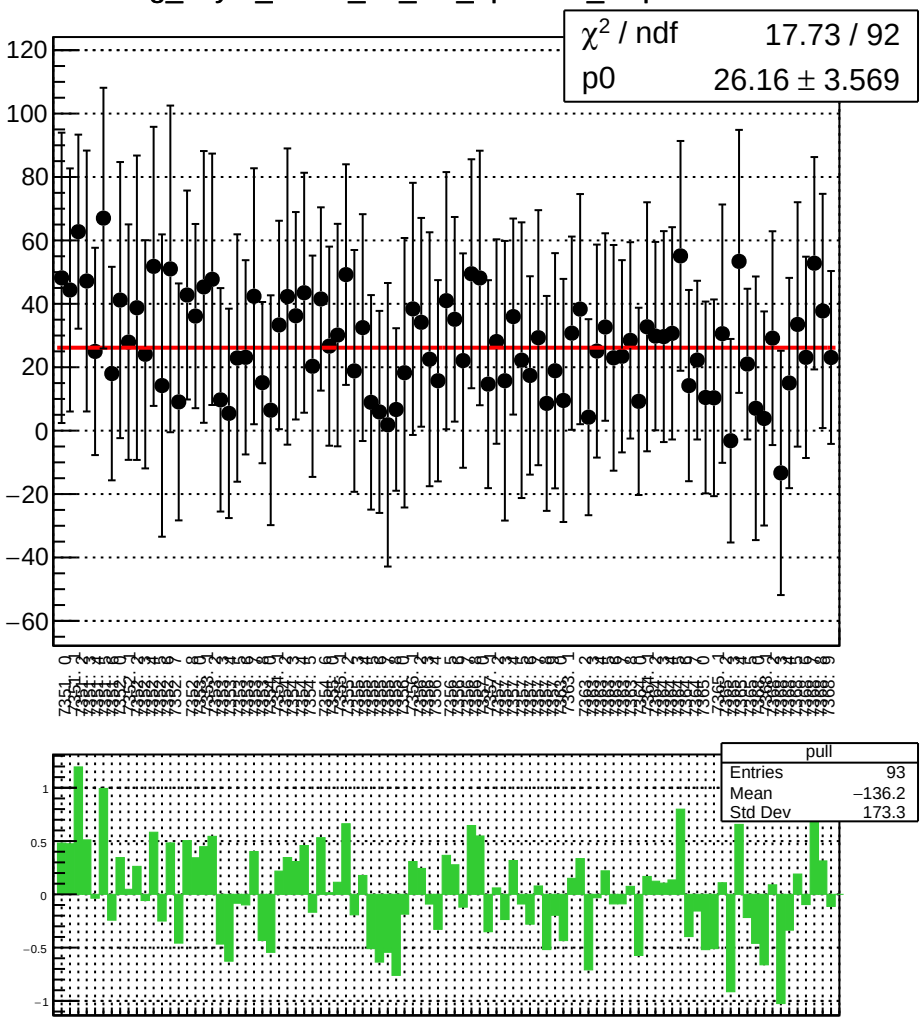

reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ² / ndf 16.94 / 92
p0 −20.51 ± 3.954
50
0
−50
−100
−150
pull
Entries 93
Mean −10.31
Std Dev 26.75
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.01898
Std Dev 0.4264
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

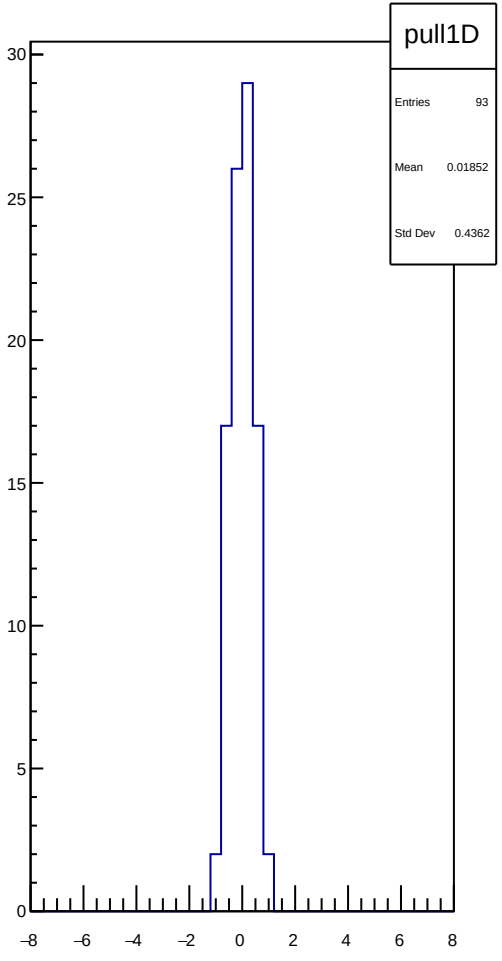

reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ² / ndf 23.71 / 92
p0 116.5 ± 4.038
pull
Entries 93
Mean 274.5
Std Dev 229.2
pull1D
Entries 93
Mean 0.02255
Std Dev 0.5044

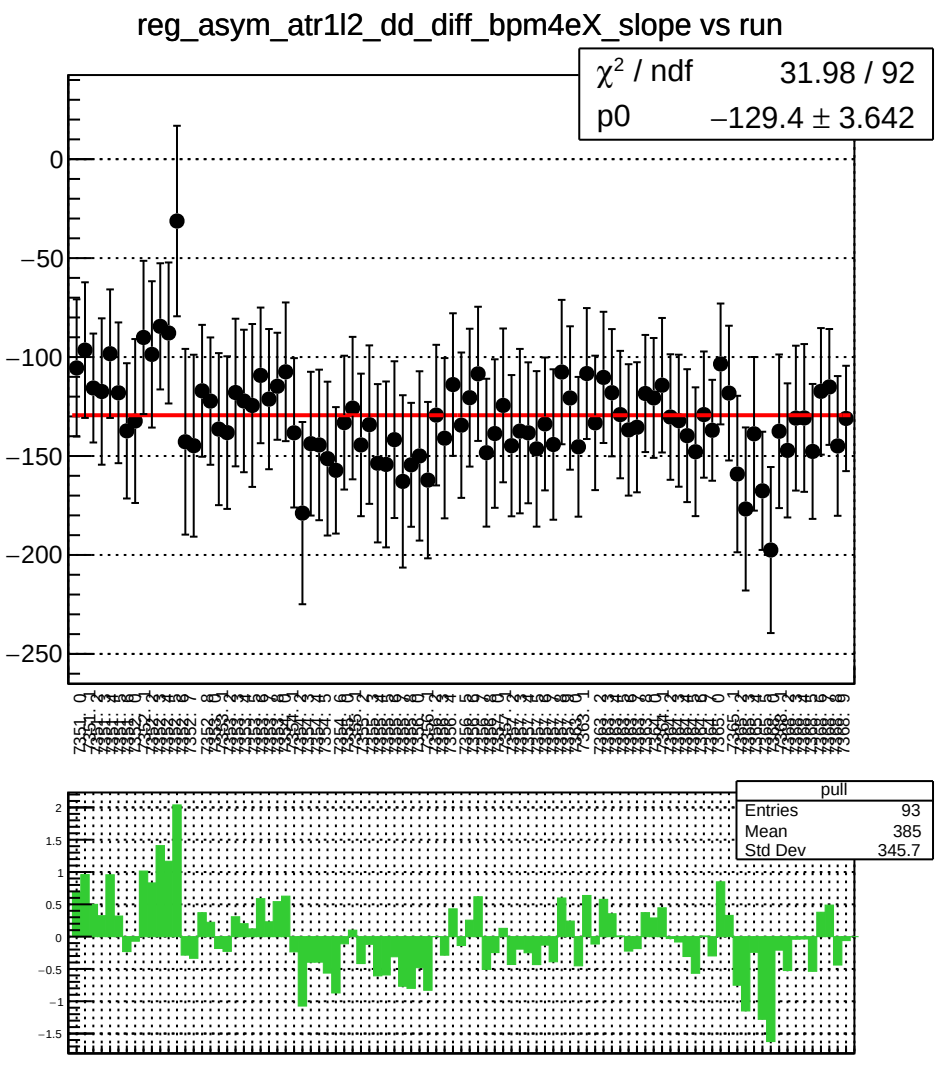

reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ² / ndf 18.37 / 92
p0 77.97 ± 4.206
200
150
100
50
0
pull
Entries 93
Mean −84.54
Std Dev 118.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.01688
Std Dev 0.4441
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

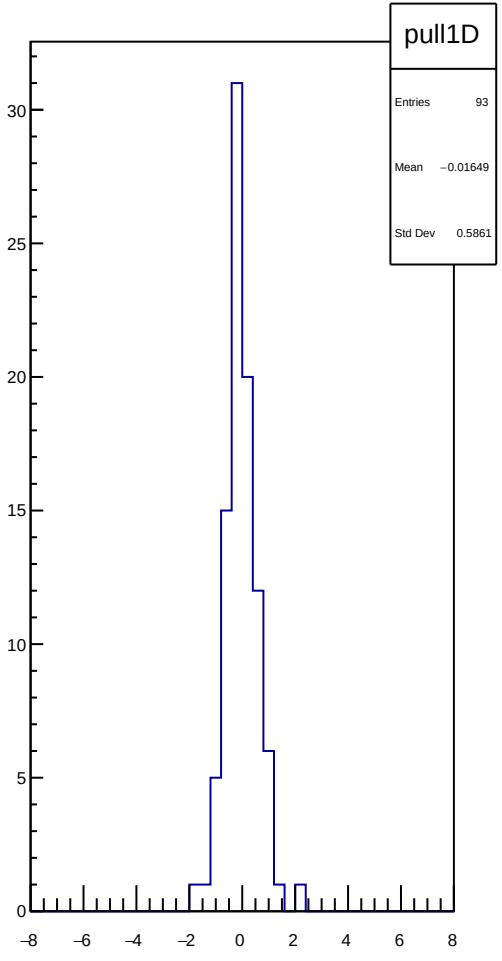

reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ² / ndf 159.2 / 92
p0 −121.9 ± 0.1987
−110
−115
−120
−125
−130
pull
Entries 93
Mean −6302
Std Dev 6358
6
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.002747
Std Dev 1.308
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

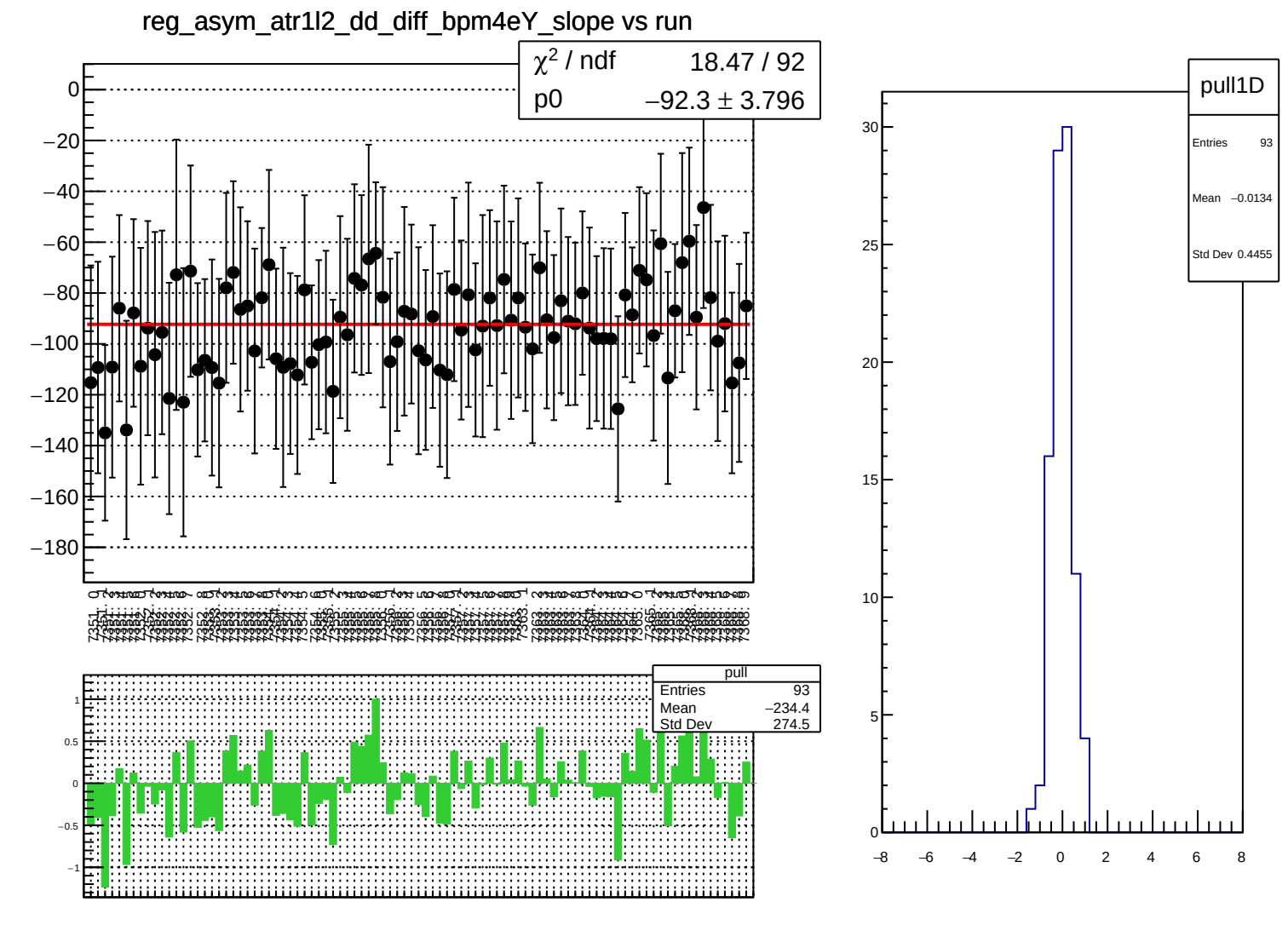

reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ² / ndf 30.66 / 92
p0 128.6 ± 3.659
pull
Entries 93
Mean 341.1
Std Dev 305.7
pull1D
Entries 93
Mean 0.01589
Std Dev 0.574

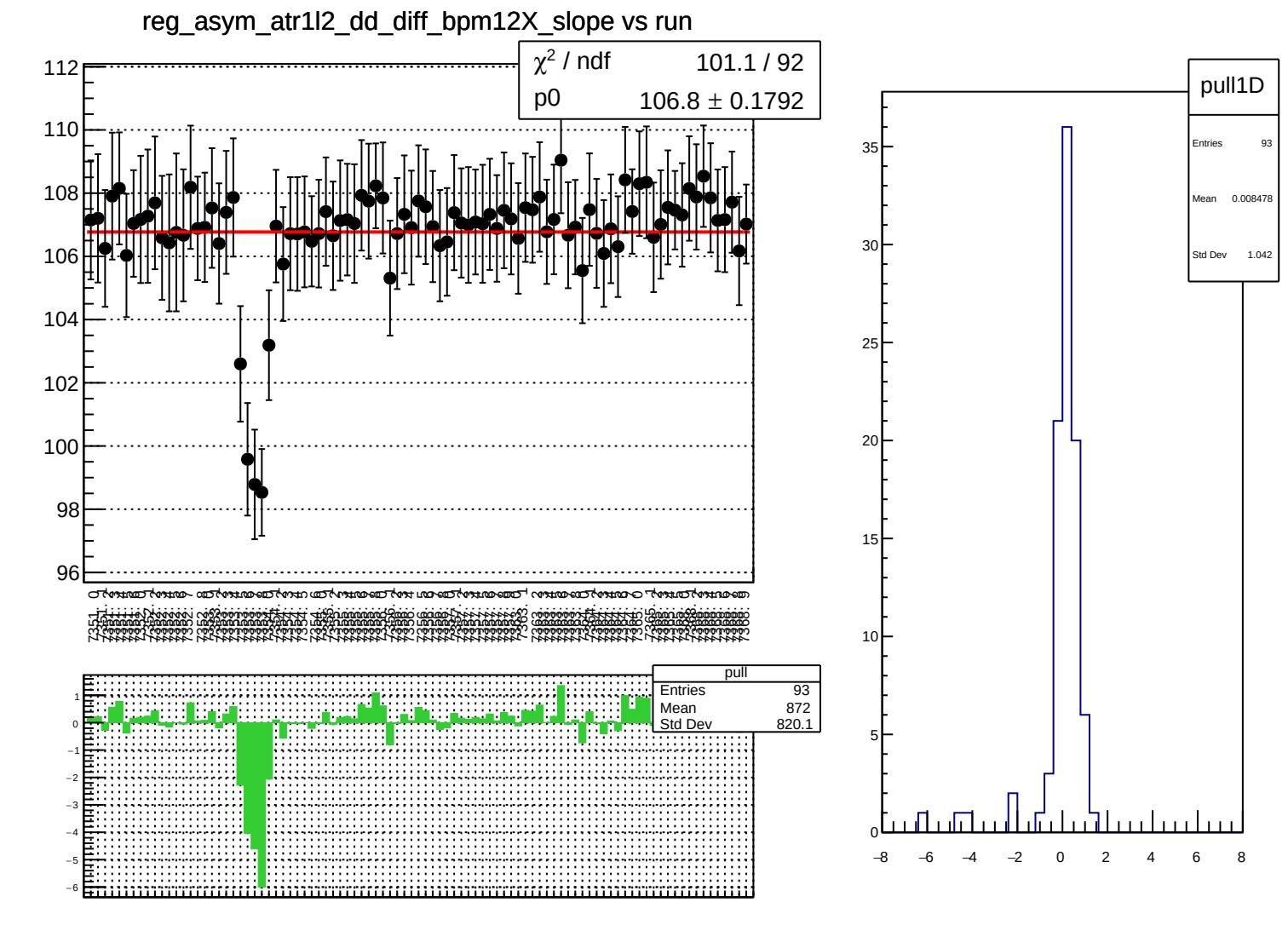

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ² / ndf 17.73 / 92
p0 26.16 ± 3.569
pull
Entries 93
Mean −136.2
Std Dev 173.3

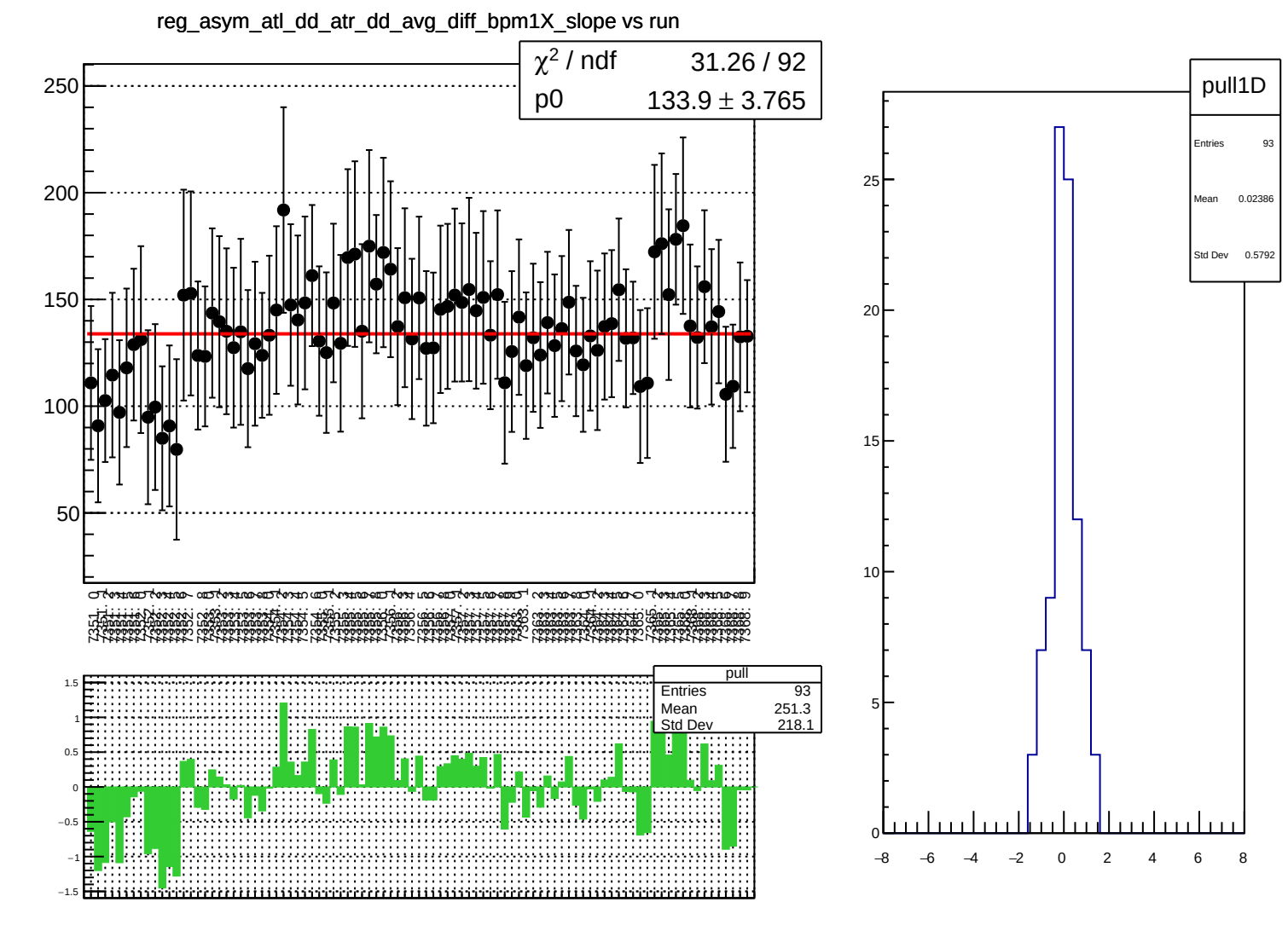

pull1D
Entries 93
Mean 0.01852
Std Dev 0.4362

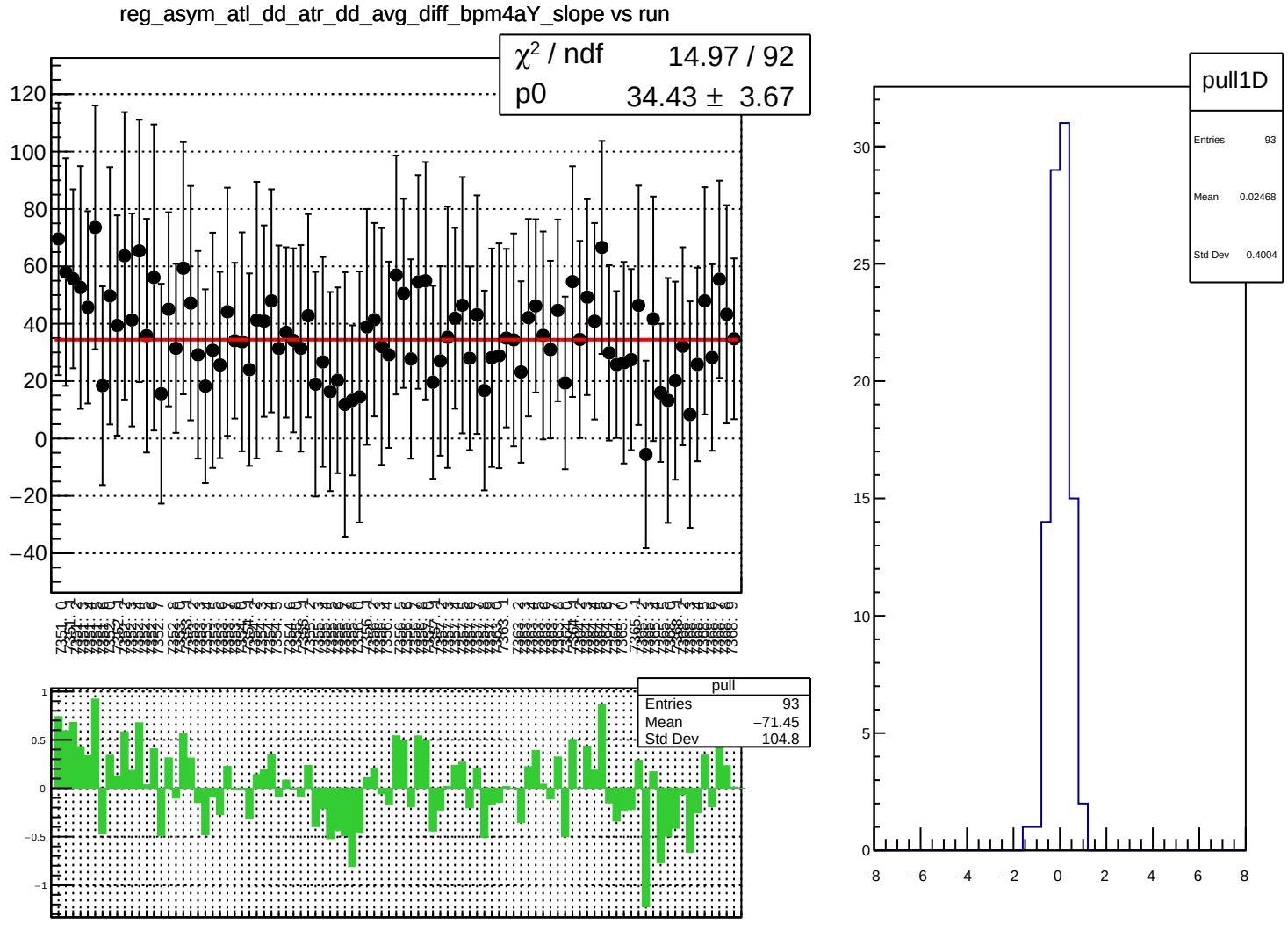

reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ² / ndf 31.98 / 92
p0 −129.4 ± 3.642
0
−50
−100
−150
−200
−250
pull
Entries 93
Mean 385
Std Dev 345.7
2
1.5
1
0.5
0
−0.5
−1
−1.5

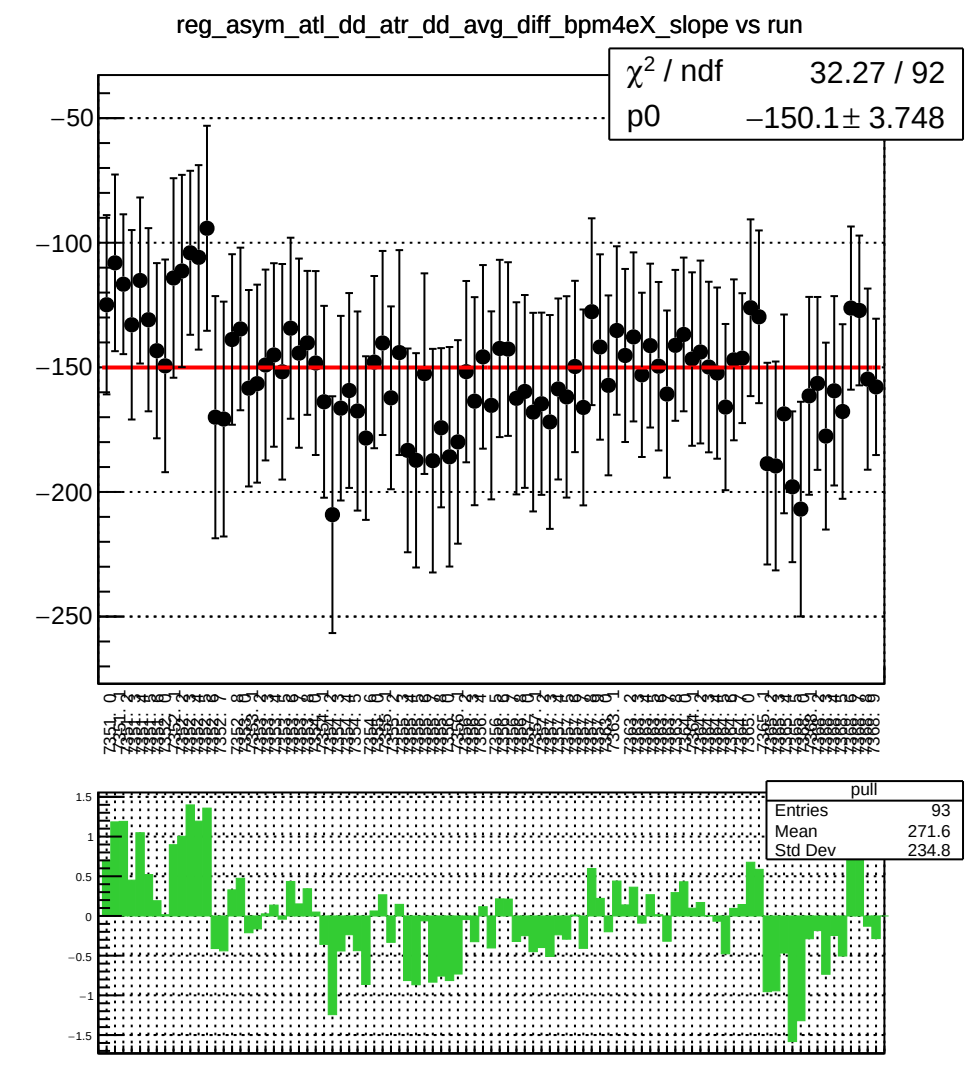

pull1D
Entries 93
Mean −0.01649
Std Dev 0.5861
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

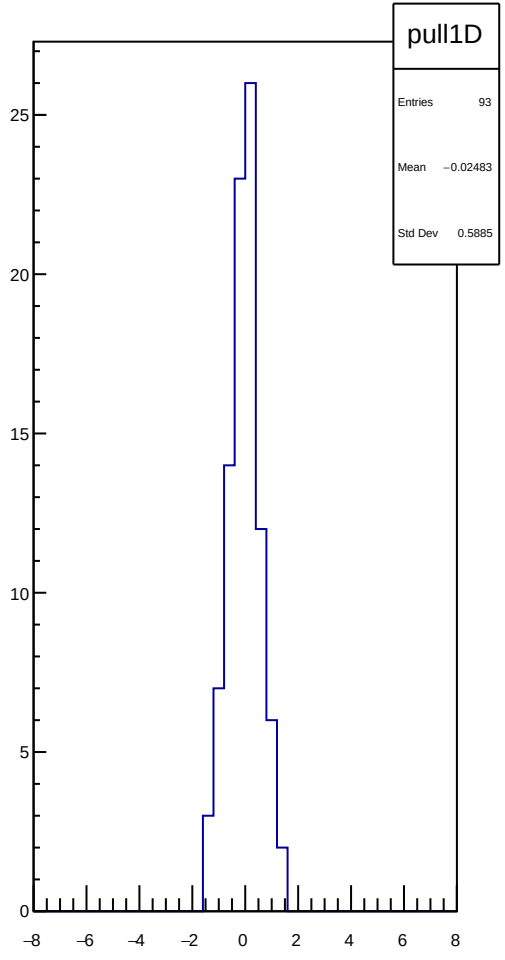

reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ² / ndf 18.47 / 92
p0 −92.3 ± 3.796
pull
Entries 93
Mean −234.4
Std Dev 274.5
pull1D
Entries 93
Mean −0.0134
Std Dev 0.4455

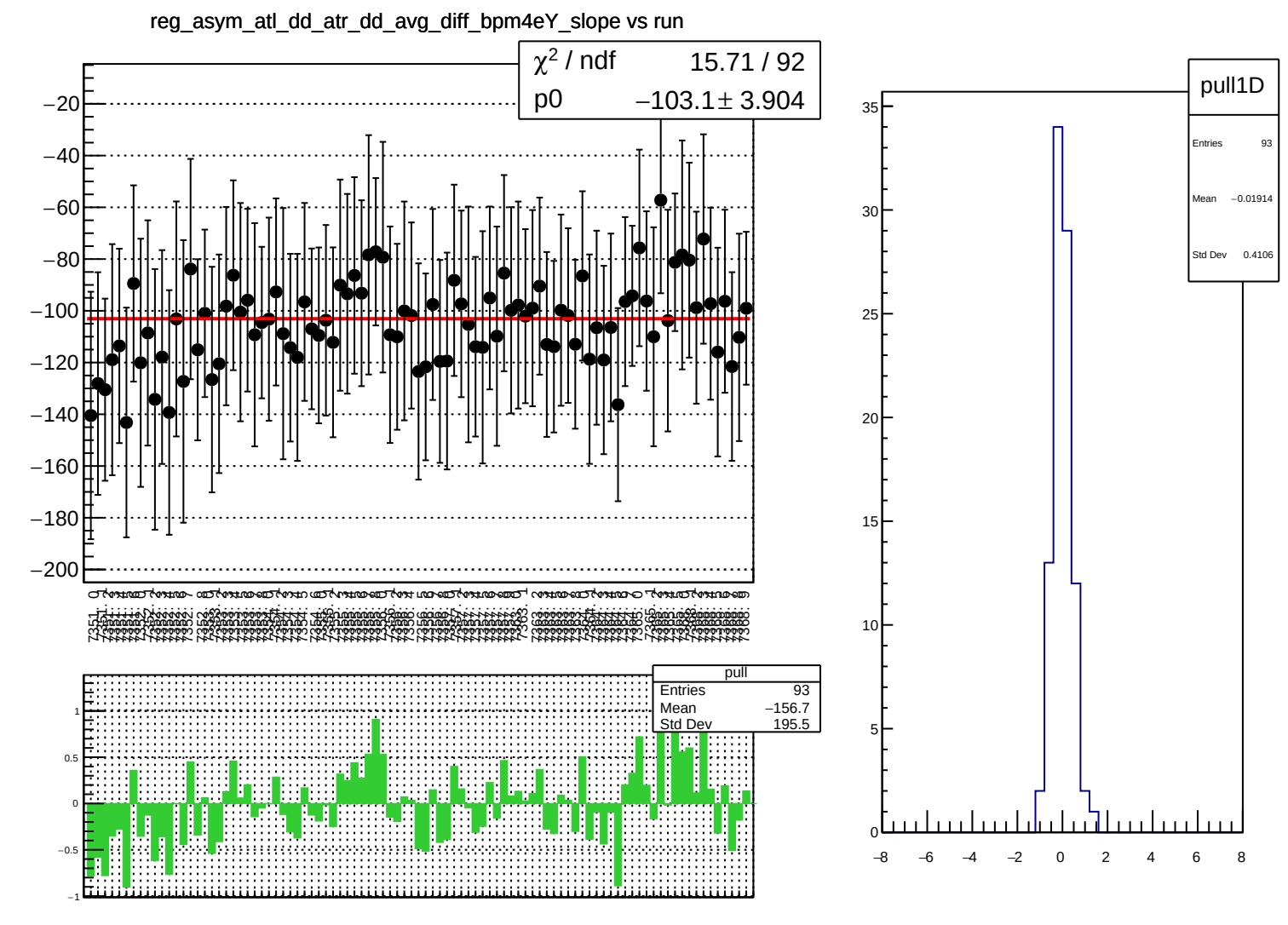

reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ² / ndf 101.1 / 92
p0 106.8 ± 0.1792
pull
Entries 93
Mean 872
Std Dev 820.1
pull1D
Entries 93
Mean 0.008478
Std Dev 1.042

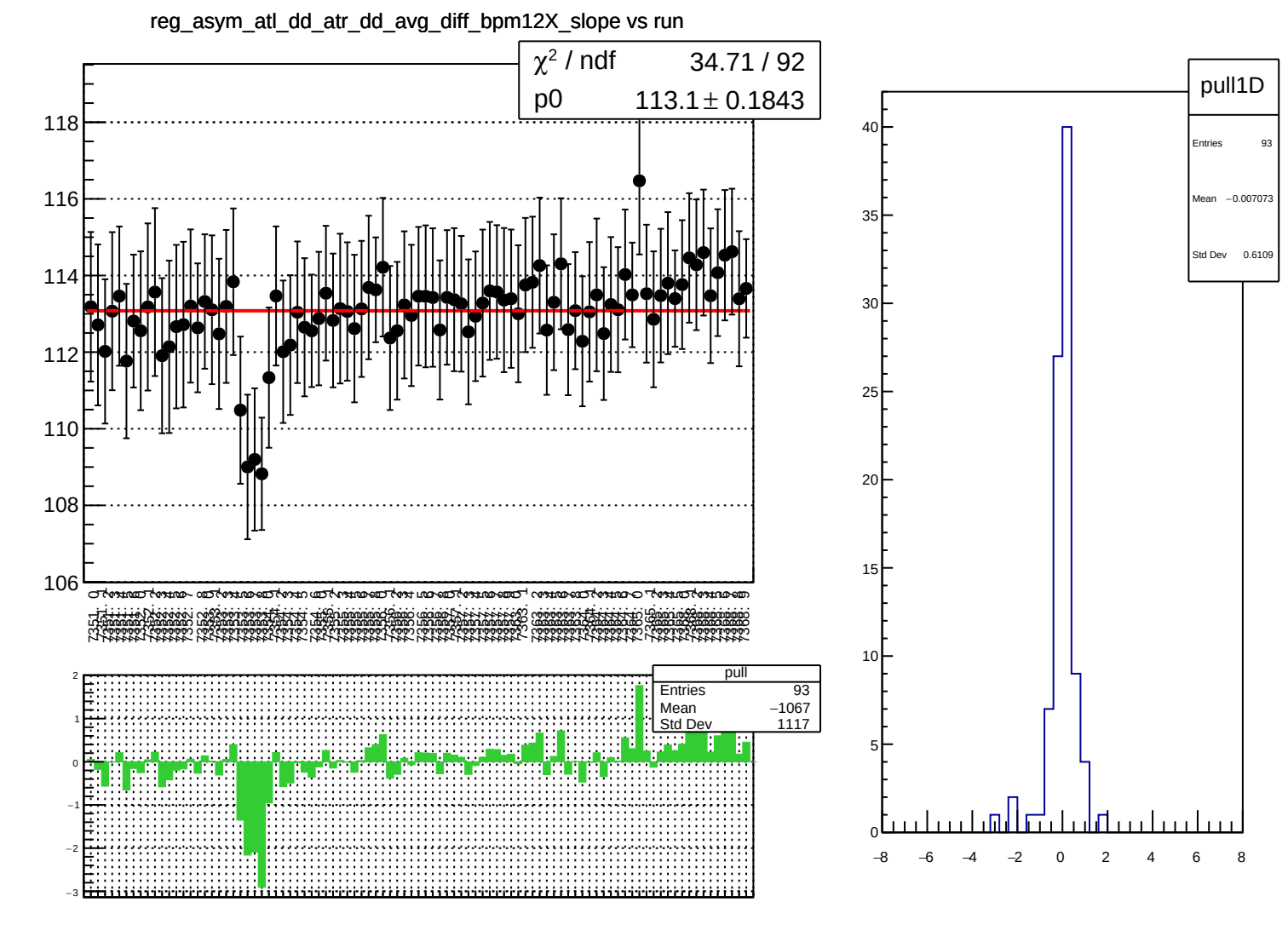

reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ² / ndf 31.26 / 92
p0 133.9 ± 3.765
250
200
150
100
50
pull
Entries 93
Mean 251.3
Std Dev 218.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02386
Std Dev 0.5792
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

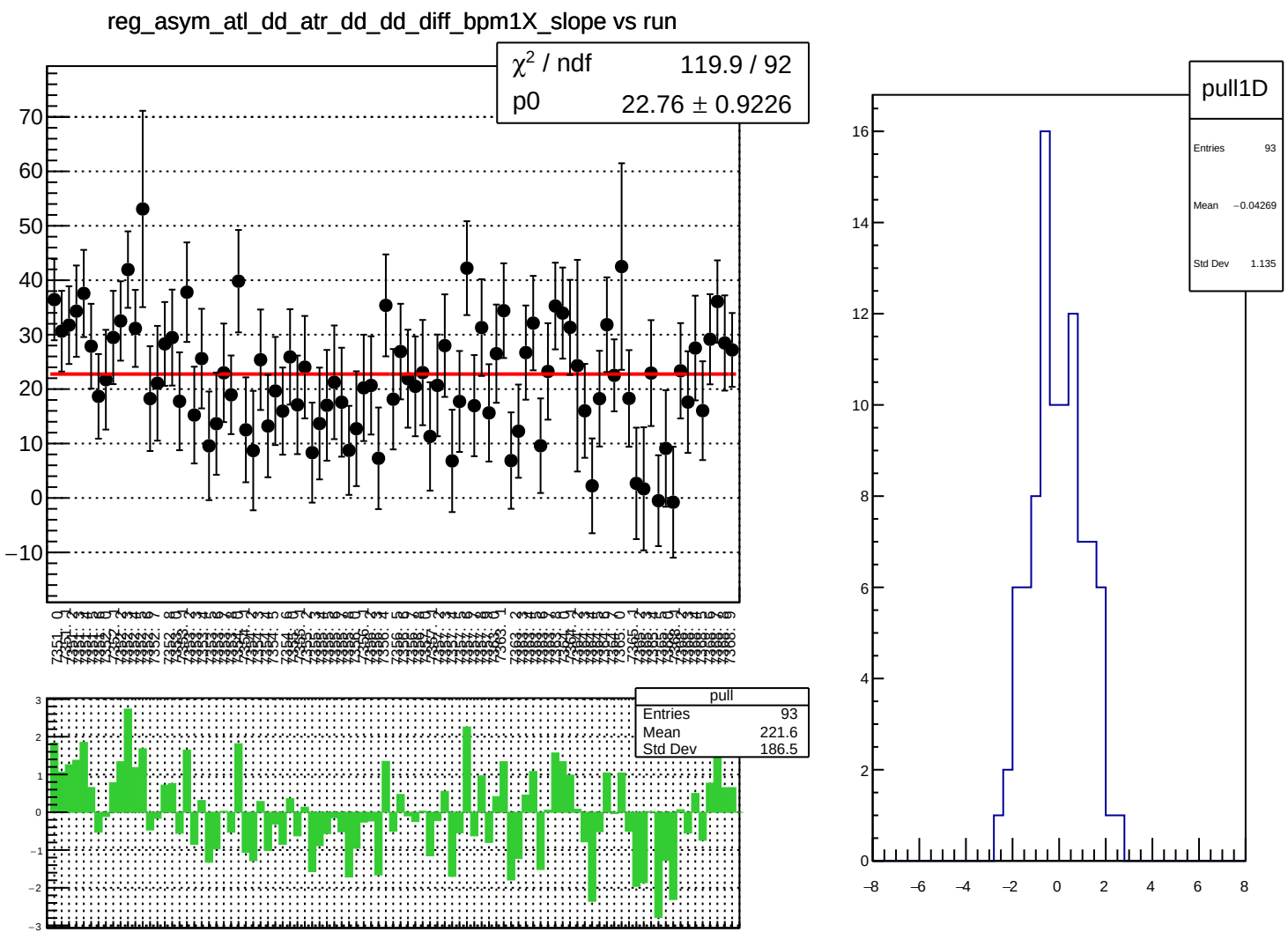

reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ² / ndf 14.97 / 92
p0 34.43 ± 3.67
pull
Entries 93
Mean −71.45
Std Dev 104.8
pull1D
Entries 93
Mean 0.02468
Std Dev 0.4004

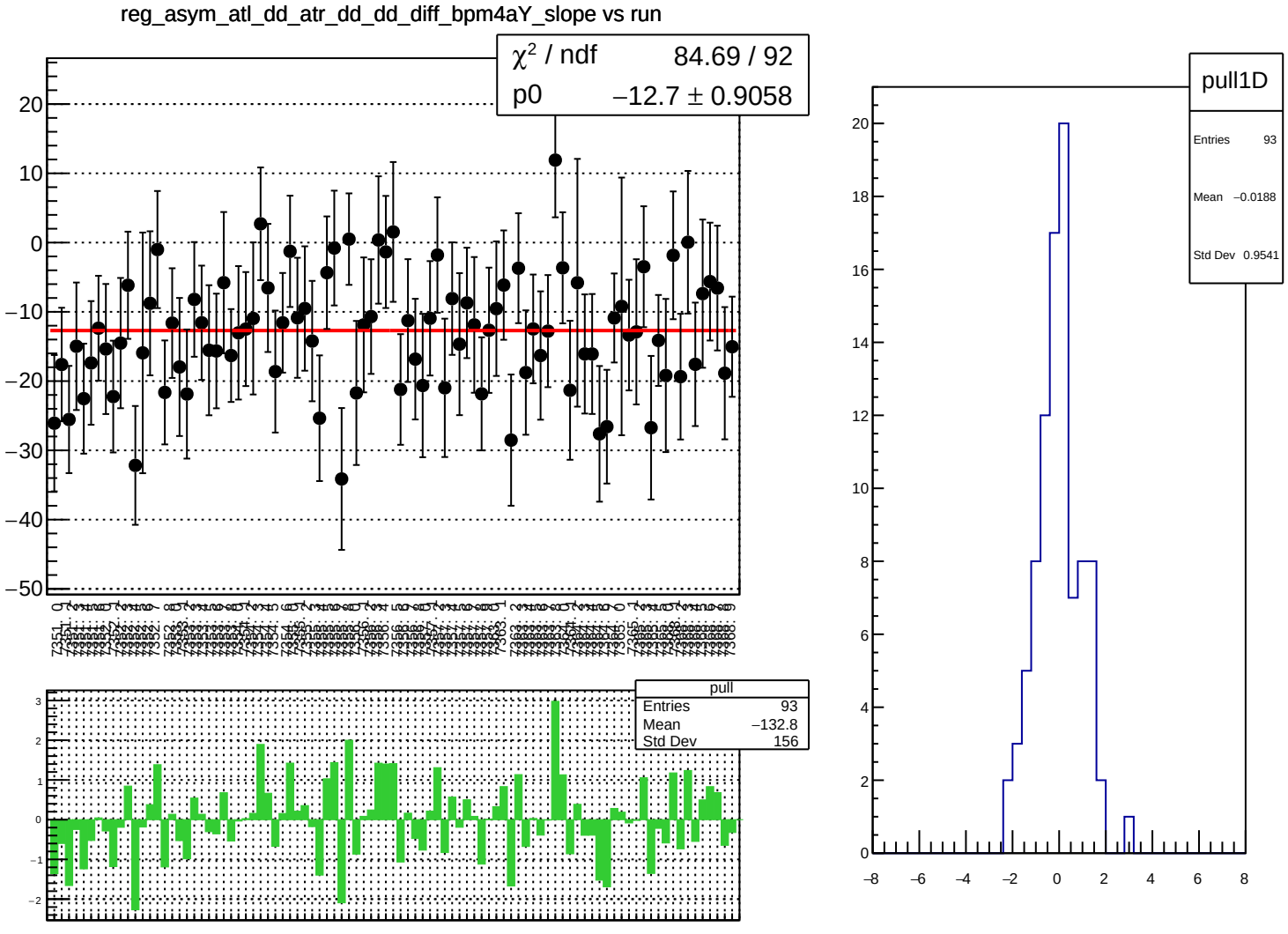

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.27 / 92
p0 −150.1 ± 3.748
−50
−100
−150
−200
−250
pull
Entries 93
Mean 271.6
Std Dev 234.8
1.5
1
0.5
0
−0.5
−1
−1.5

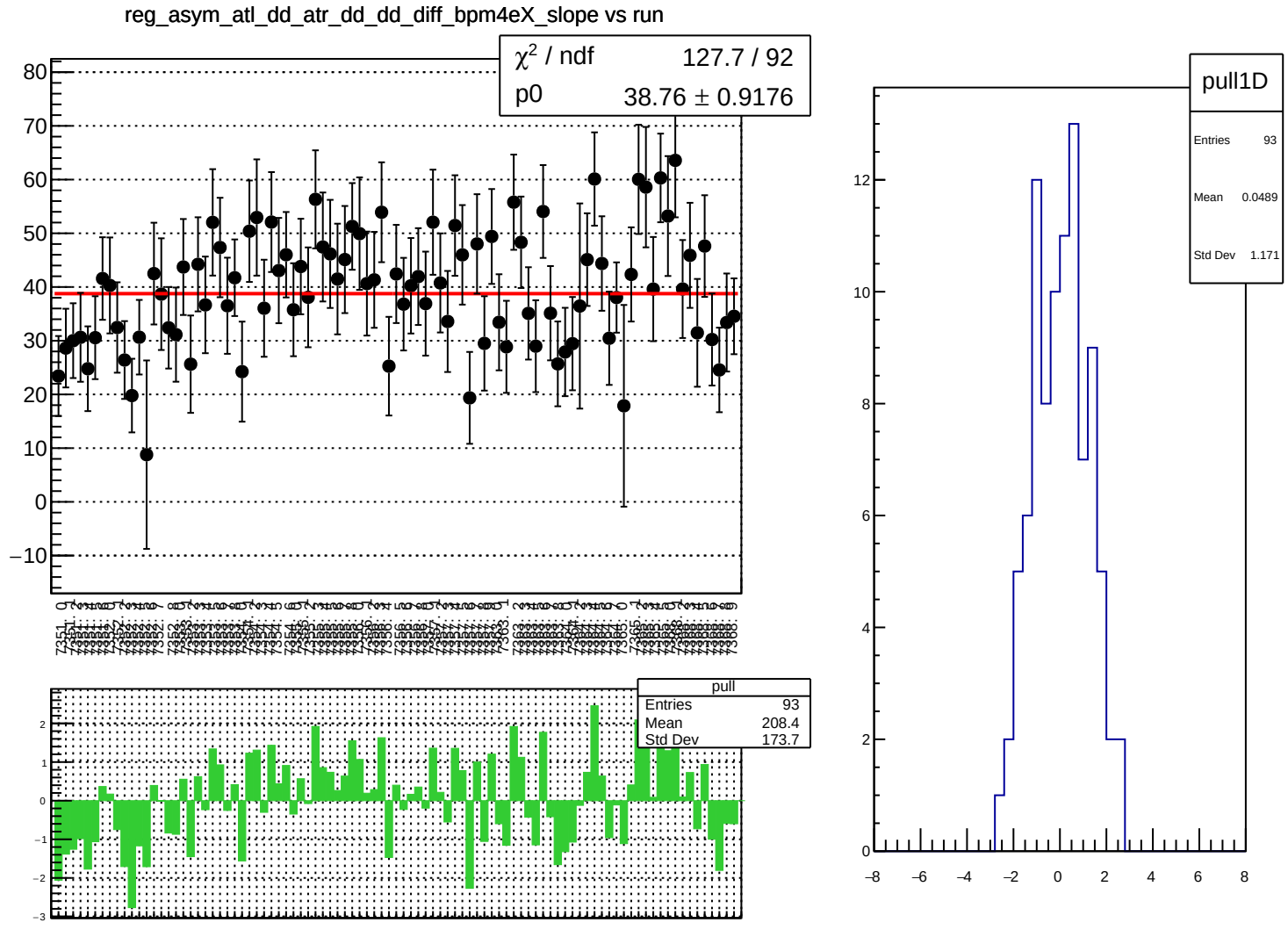

pull1D
Entries 93
Mean −0.02483
Std Dev 0.5885
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

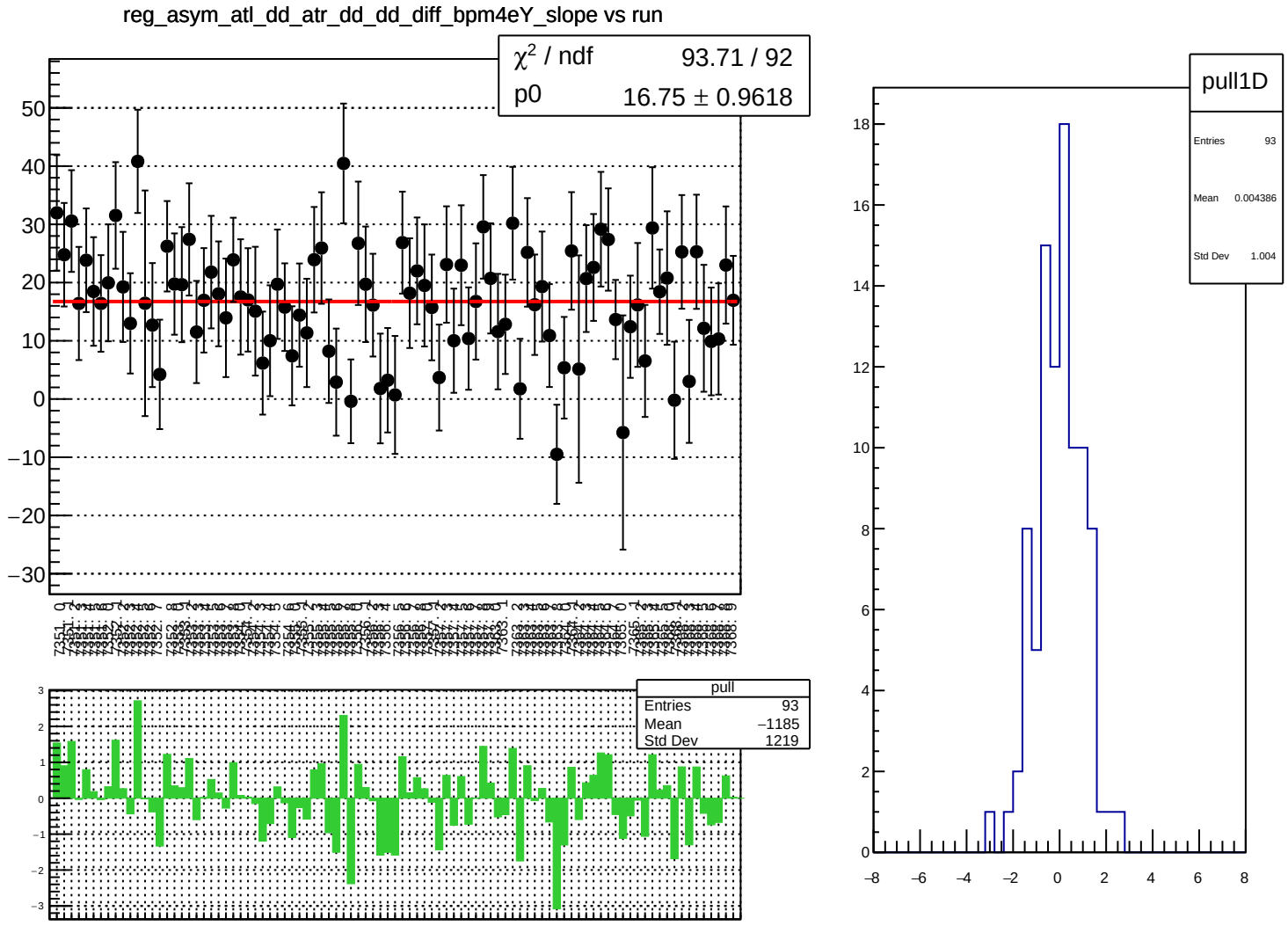

reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ² / ndf 15.71 / 92
p0 −103.1± 3.904
pull
Entries 93
Mean −156.7
Std Dev 195.5
pull1D
Entries 93
Mean −0.01914
Std Dev 0.4106

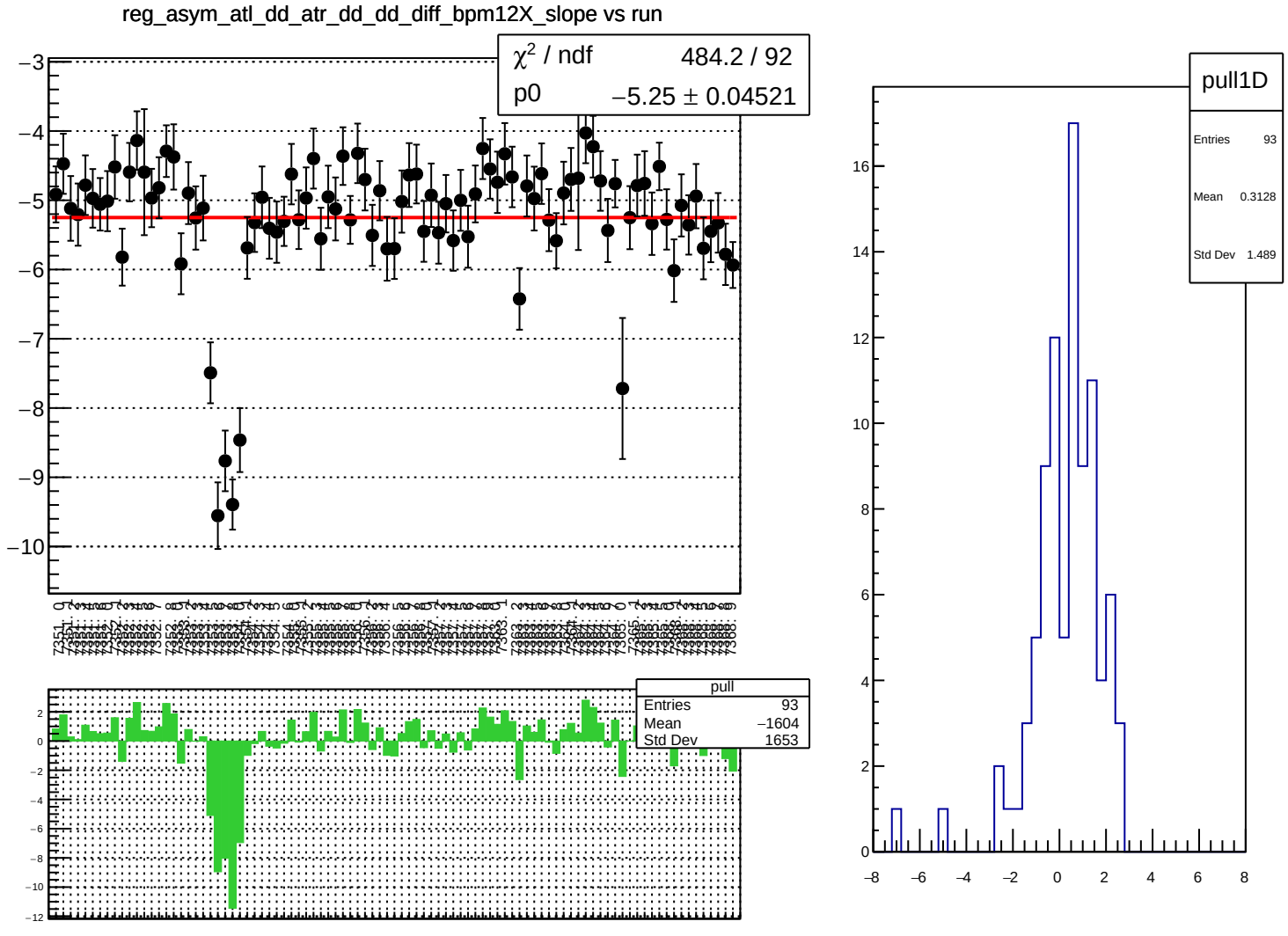

reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ² / ndf 34.71 / 92
p0 113.1 ± 0.1843
pull
Entries 93
Mean −1067
Std Dev 1117
pull1D
Entries 93
Mean −0.007073
Std Dev 0.6109

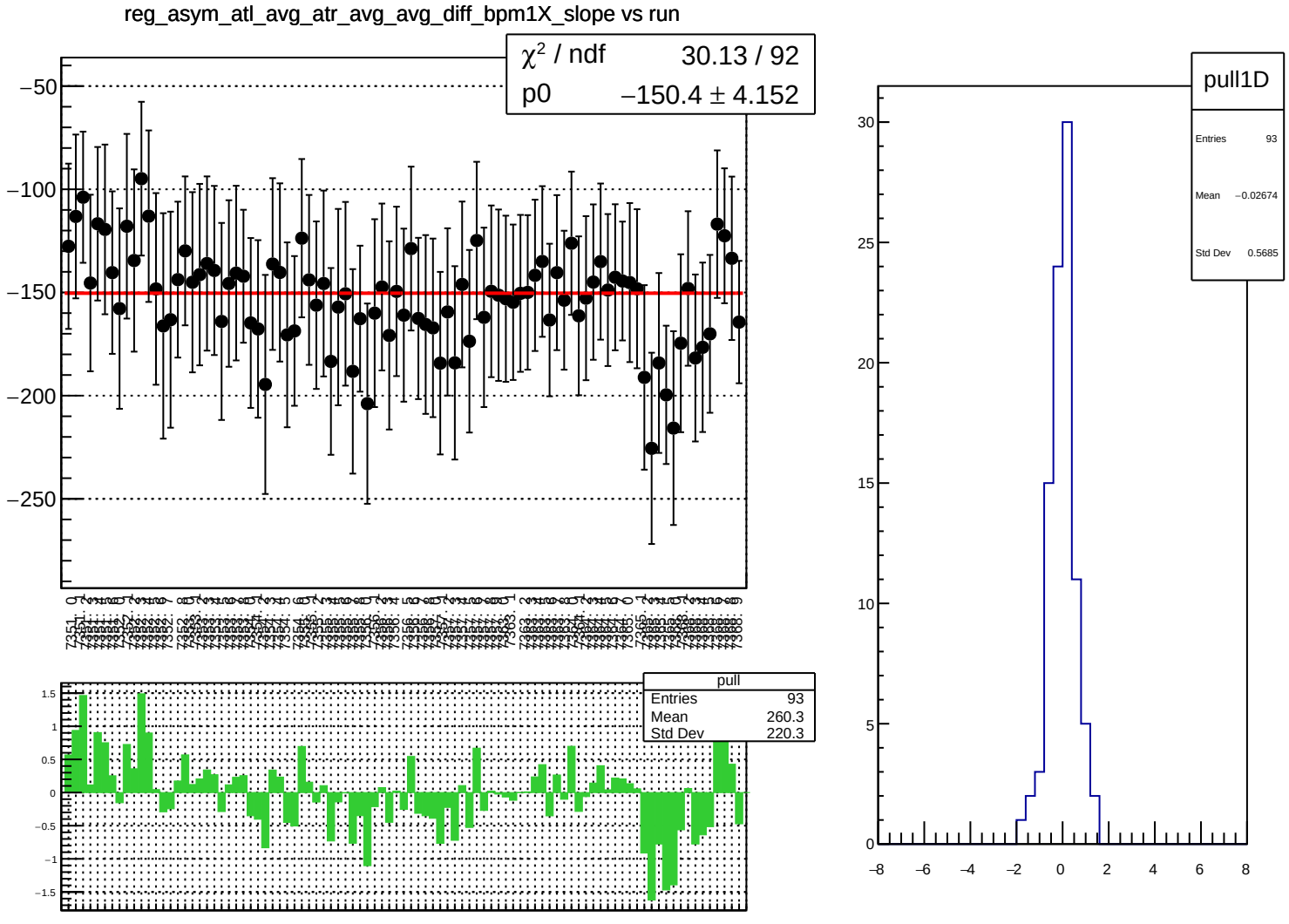

reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ² / ndf 119.9 / 92
p0 22.76 ± 0.9226
pull
Entries 93
Mean 221.6
Std Dev 186.5
pull1D
Entries 93
Mean −0.04269
Std Dev 1.135

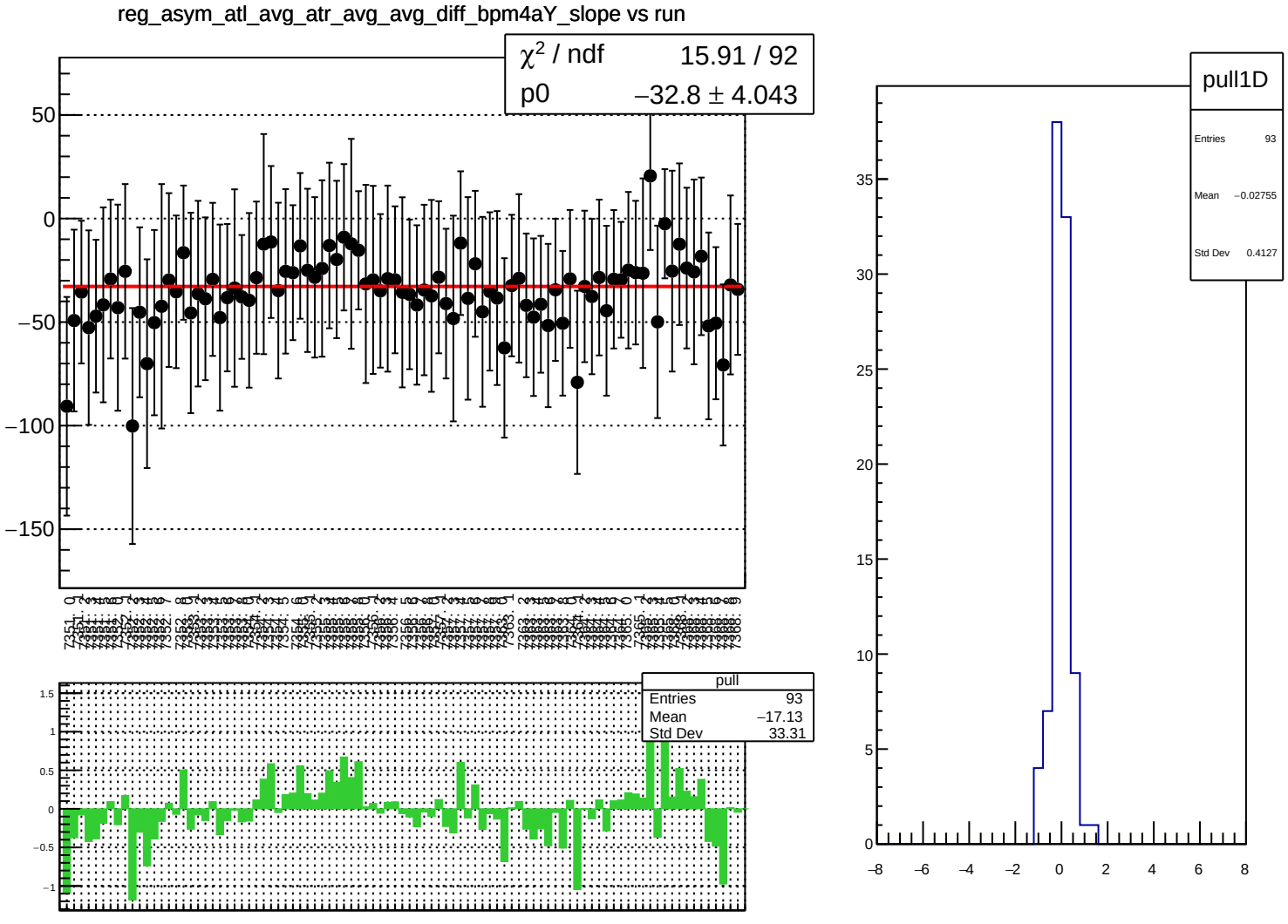

reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ² / ndf 84.69 / 92
p0 −12.7 ± 0.9058
pull
Entries 93
Mean −132.8
Std Dev 156
pull1D
Entries 93
Mean −0.0188
Std Dev 0.9541

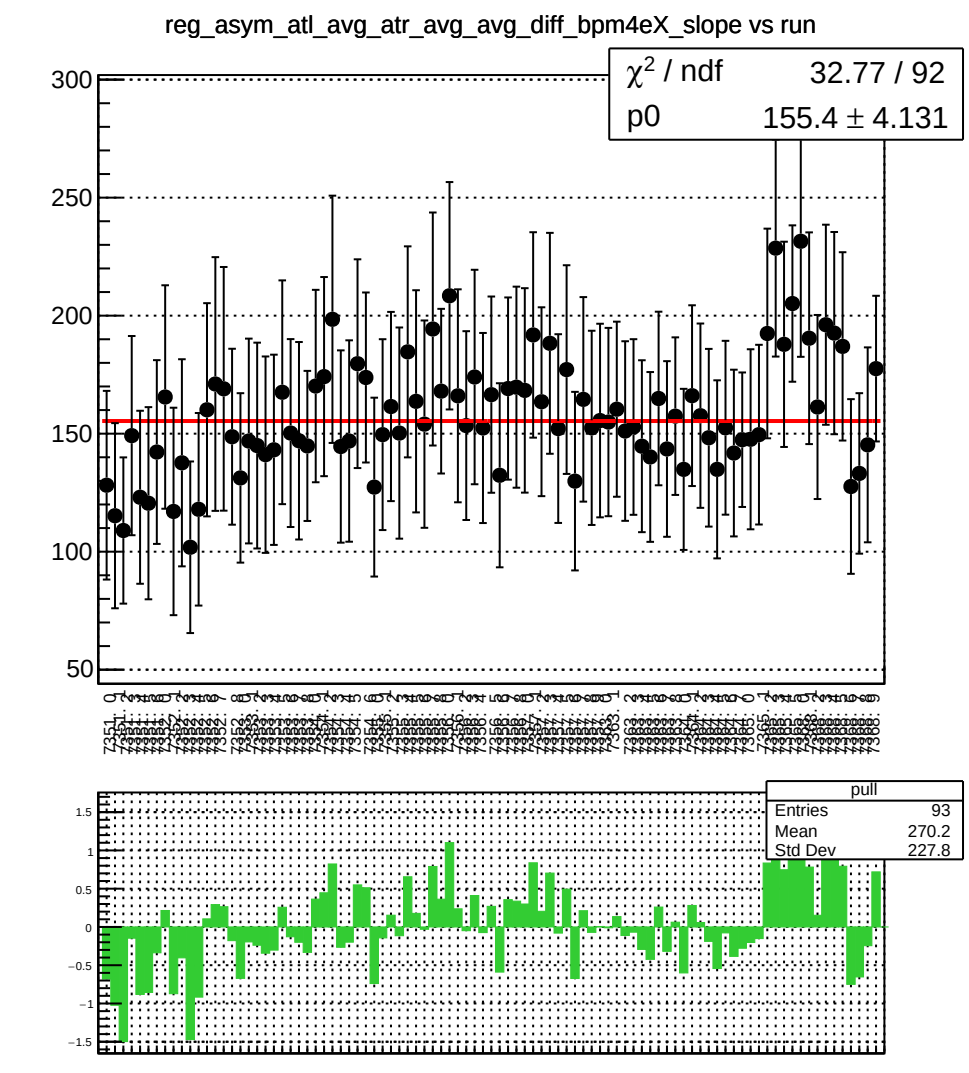

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ² / ndf 127.7 / 92
p0 38.76 ± 0.9176
pull
Entries 93
Mean 208.4
Std Dev 173.7
pull1D
Entries 93
Mean 0.0489
Std Dev 1.171

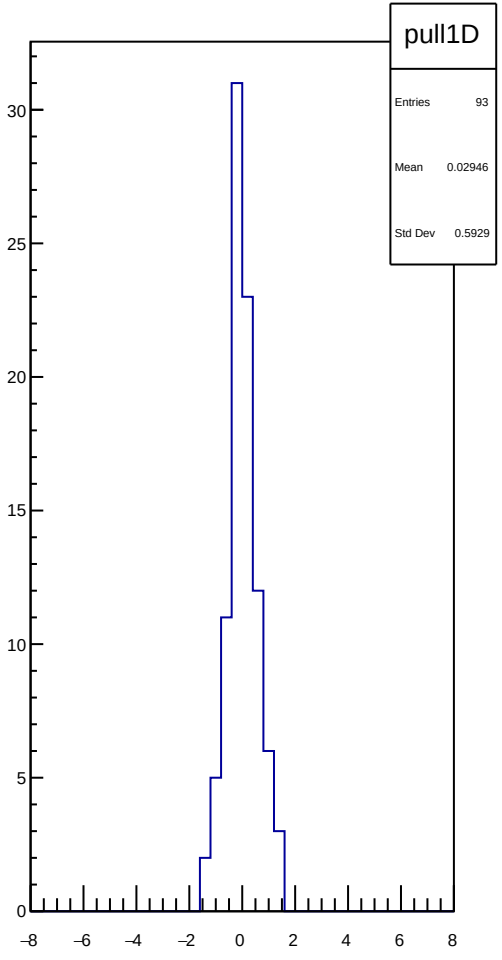

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ² / ndf 93.71 / 92
p0 16.75 ± 0.9618
pull
Entries 93
Mean −1185
Std Dev 1219
pull1D
Entries 93
Mean 0.004386
Std Dev 1.004

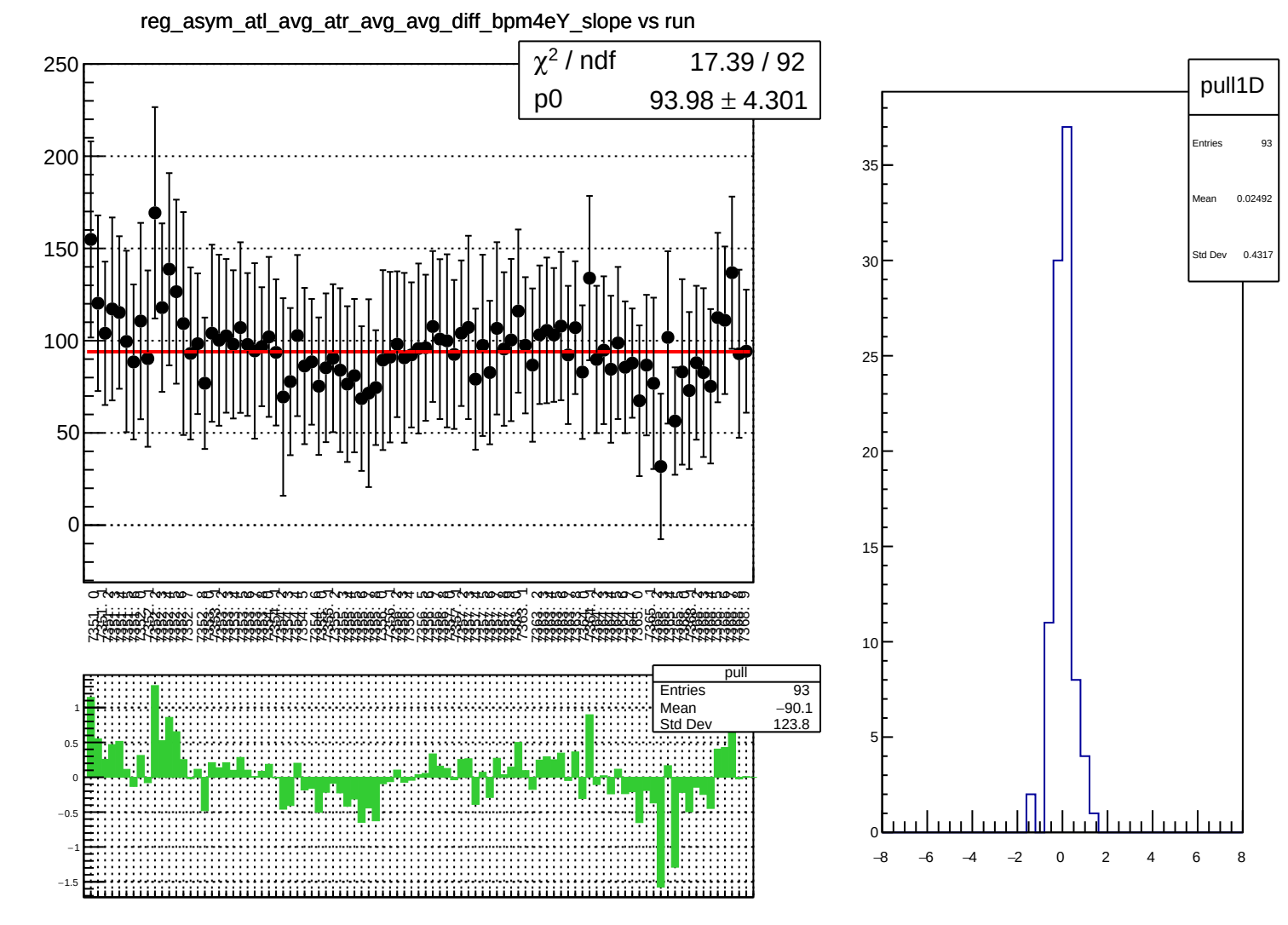

reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ² / ndf 484.2 / 92
p0 −5.25 ± 0.04521
pull
Entries 93
Mean −1604
Std Dev 1653
pull1D
Entries 93
Mean 0.3128
Std Dev 1.489

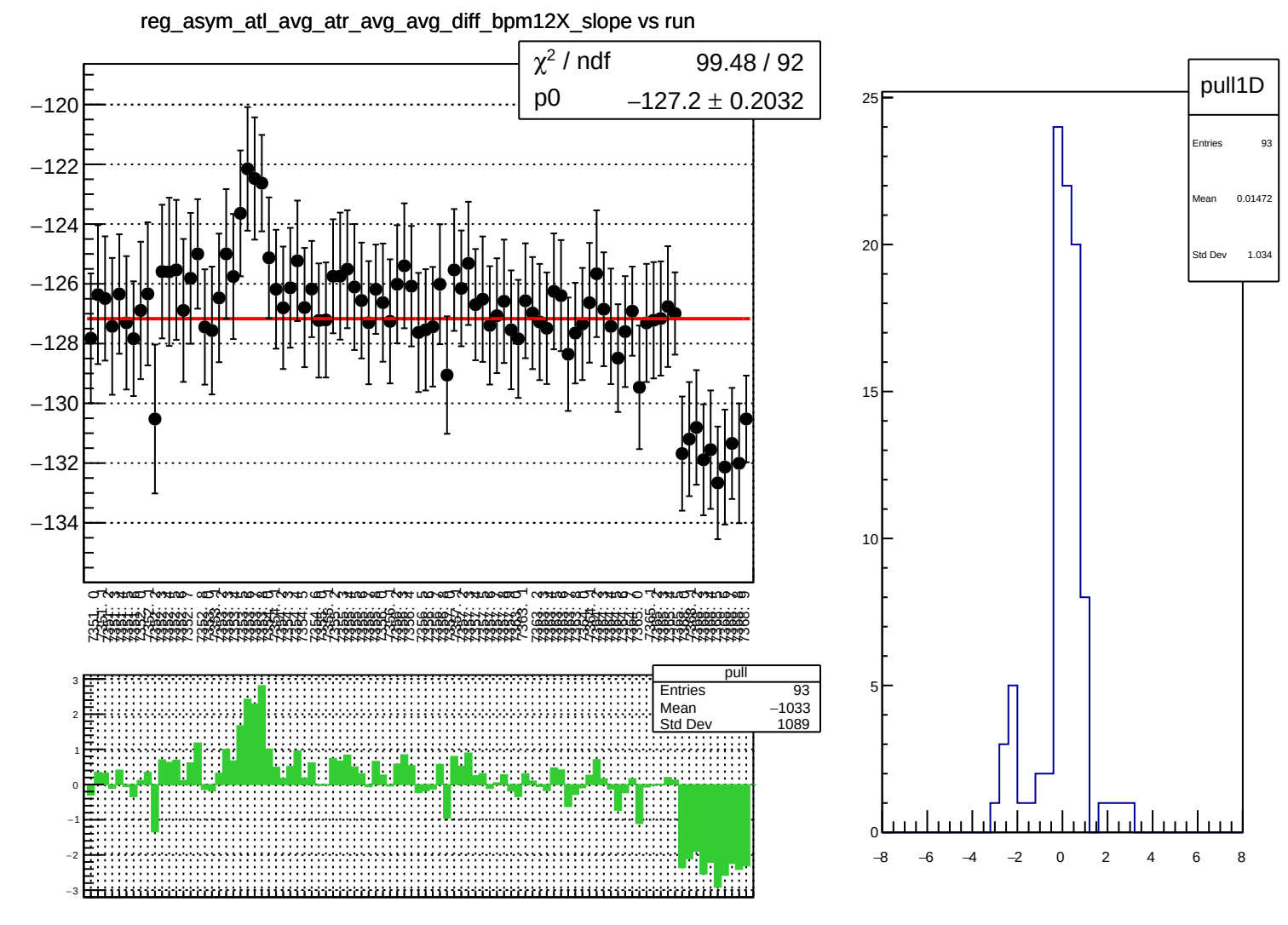

reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ² / ndf 30.13 / 92
p0 −150.4 ± 4.152
−50
−100
−150
−200
−250
pull
Entries 93
Mean 260.3
Std Dev 220.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean −0.02674
Std Dev 0.5685
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

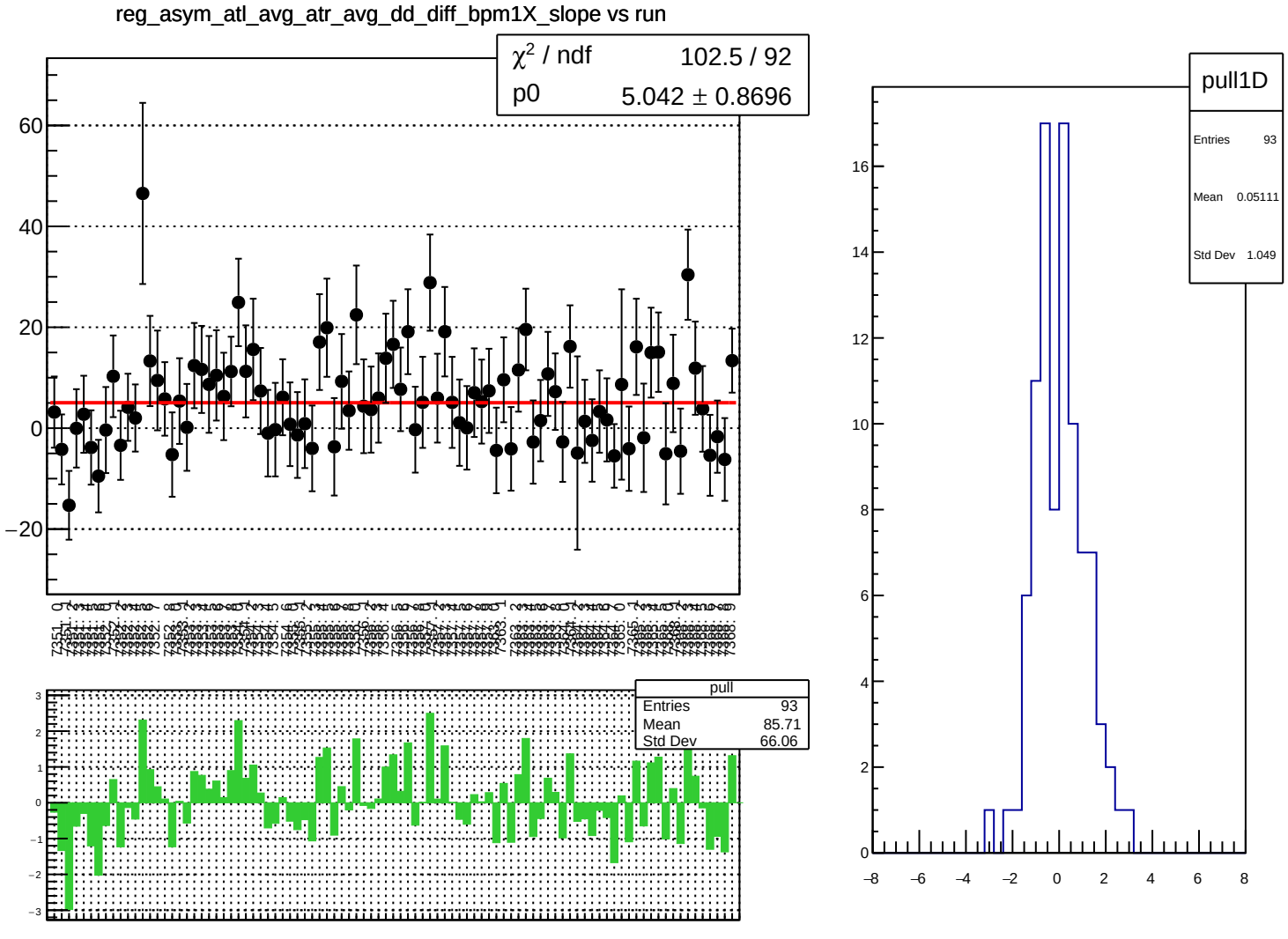

reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ² / ndf 15.91 / 92
p0 −32.8 ± 4.043
50
0
−50
−100
−150
pull
Entries 93
Mean −17.13
Std Dev 33.31
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 93
Mean −0.02755
Std Dev 0.4127
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

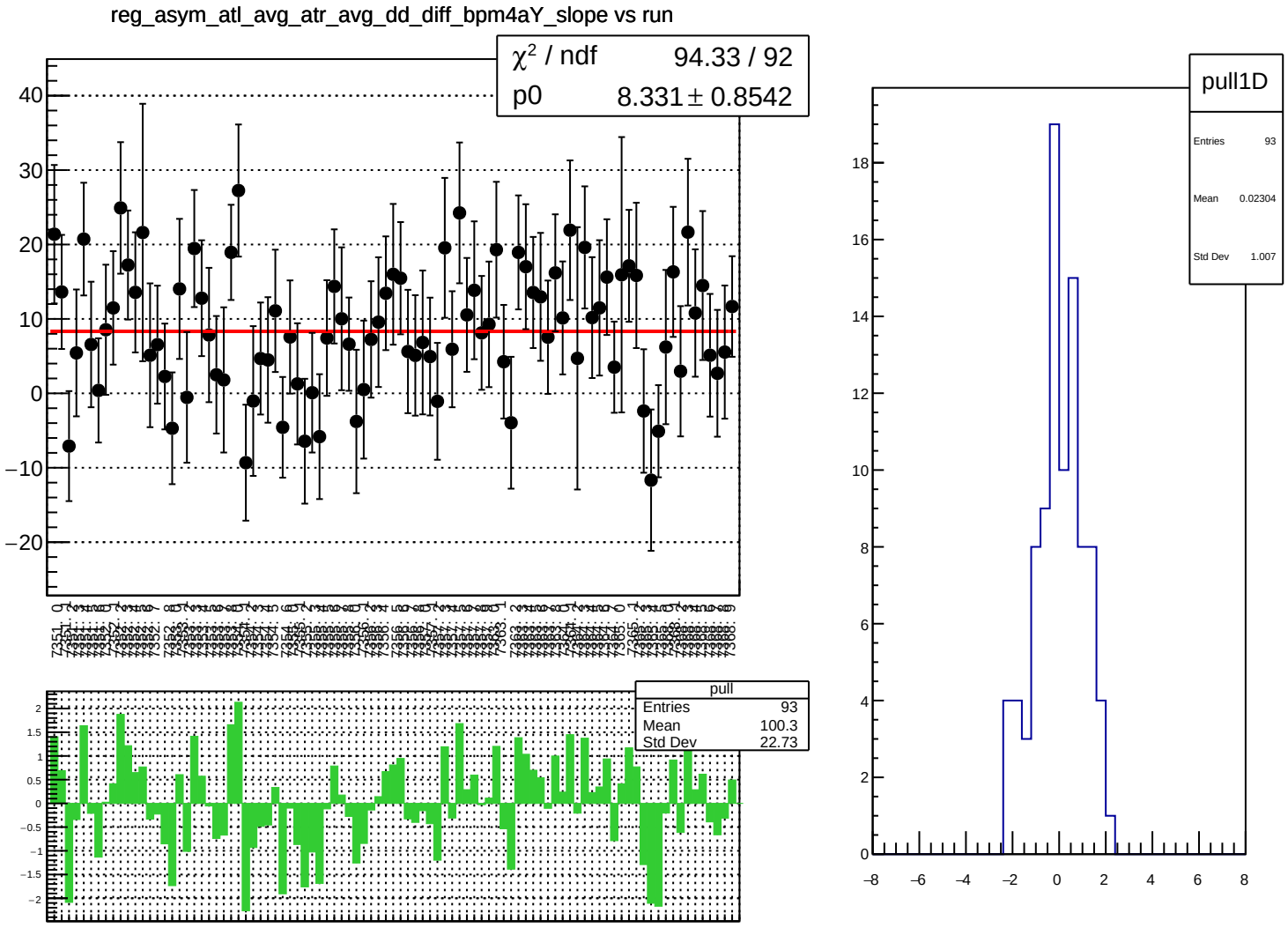

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ² / ndf 32.77 / 92
p0 155.4 ± 4.131
pull
Entries 93
Mean 270.2
Std Dev 227.8

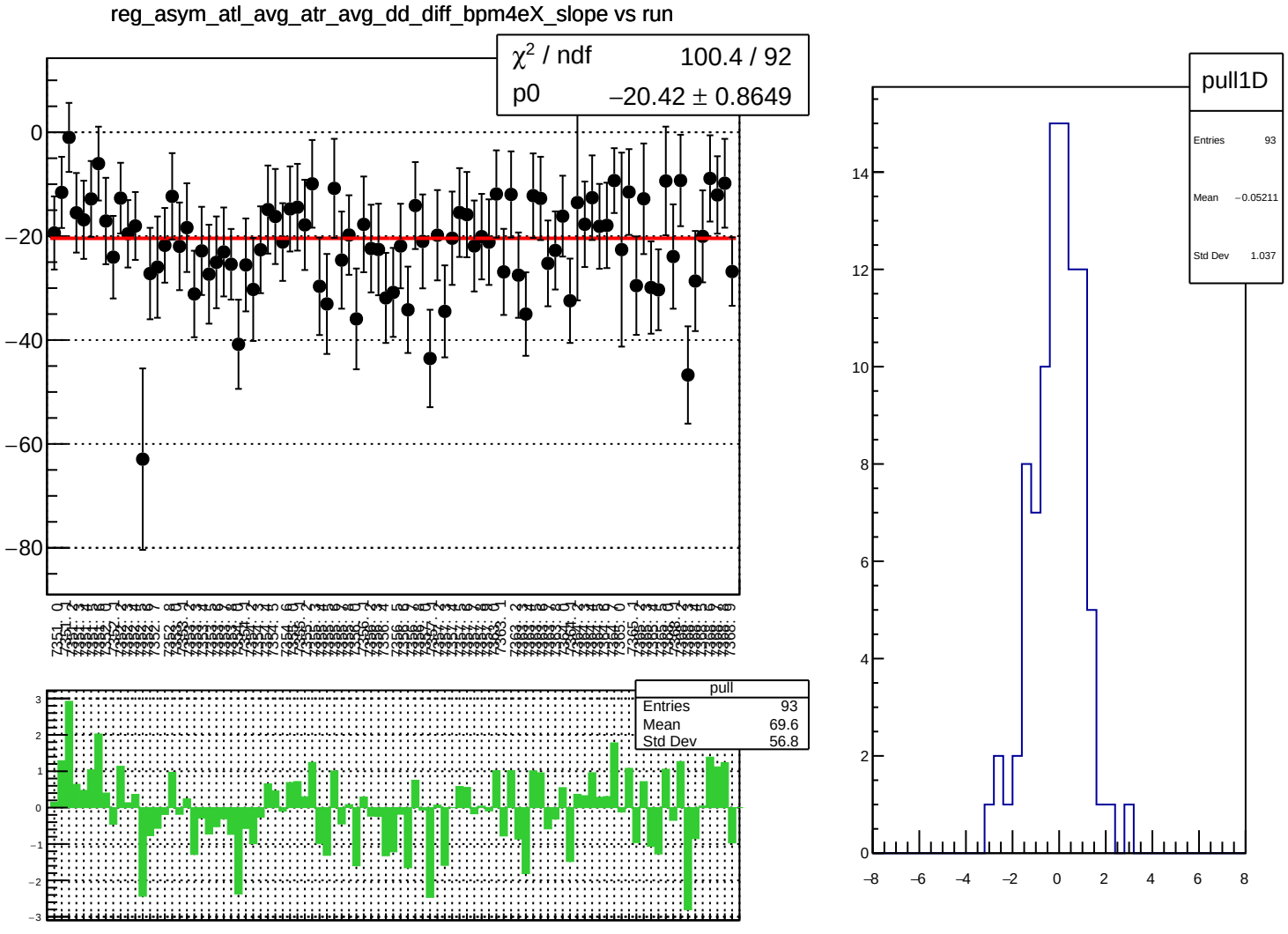

pull1D
Entries 93
Mean 0.02946
Std Dev 0.5929

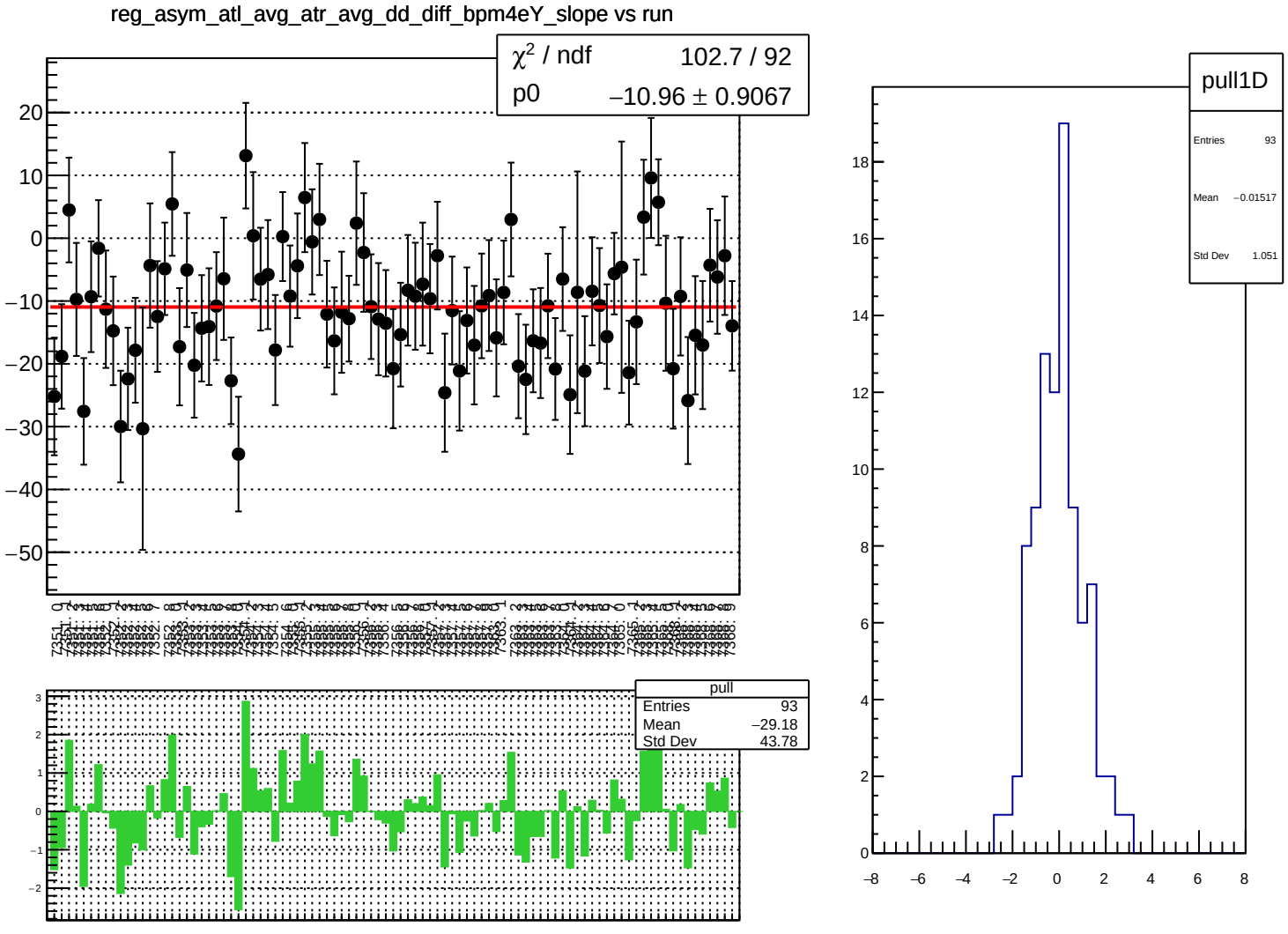

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ² / ndf 17.39 / 92
p0 93.98 ± 4.301
250
200
150
100
50
0
pull
Entries 93
Mean −90.1
Std Dev 123.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 93
Mean 0.02492
Std Dev 0.4317
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

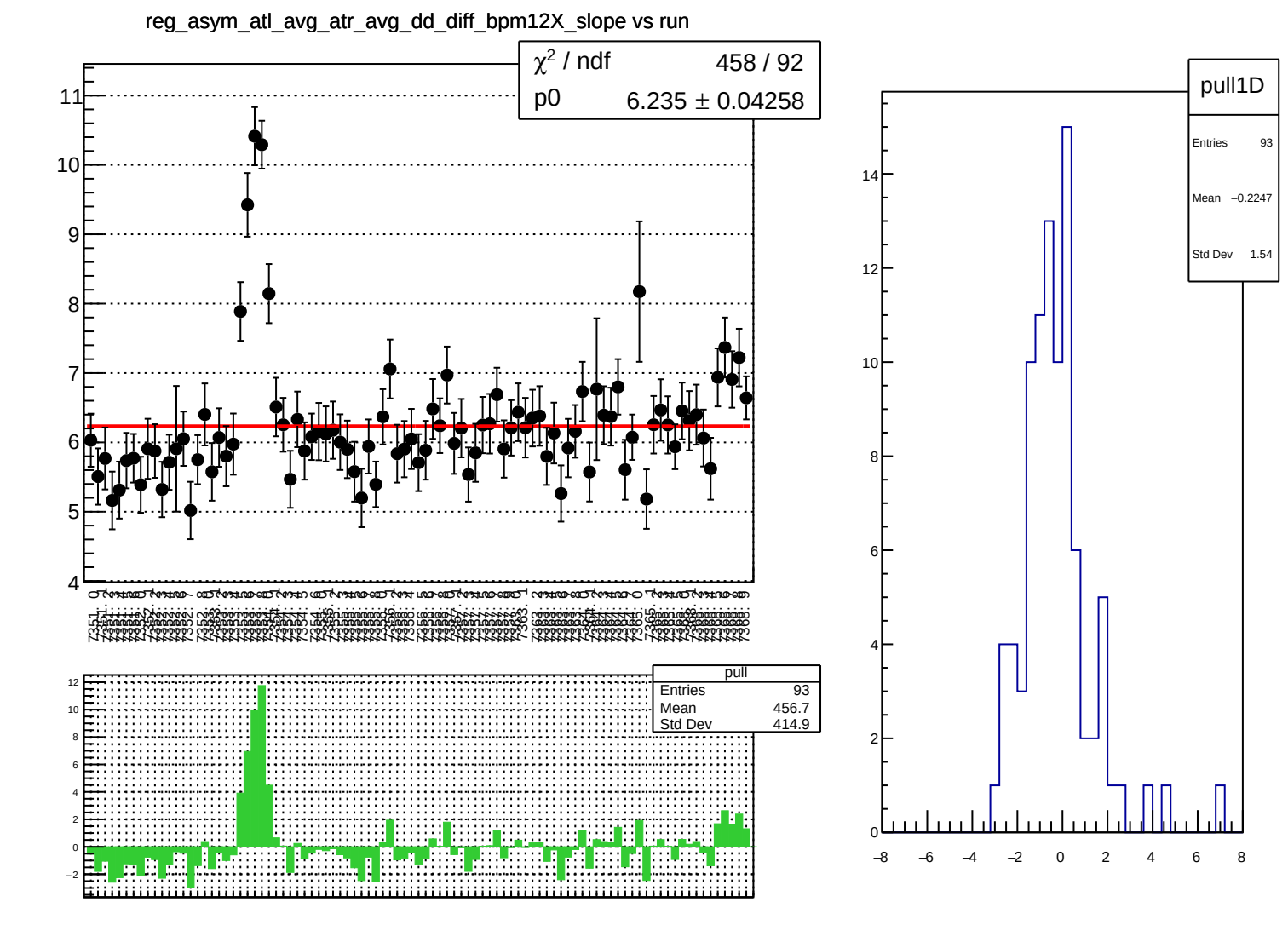

reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ² / ndf 99.48 / 92
p0 −127.2 ± 0.2032
−120
−122
−124
−126
−128
−130
−132
−134
pull
Entries 93
Mean −1033
Std Dev 1089
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean 0.01472
Std Dev 1.034
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

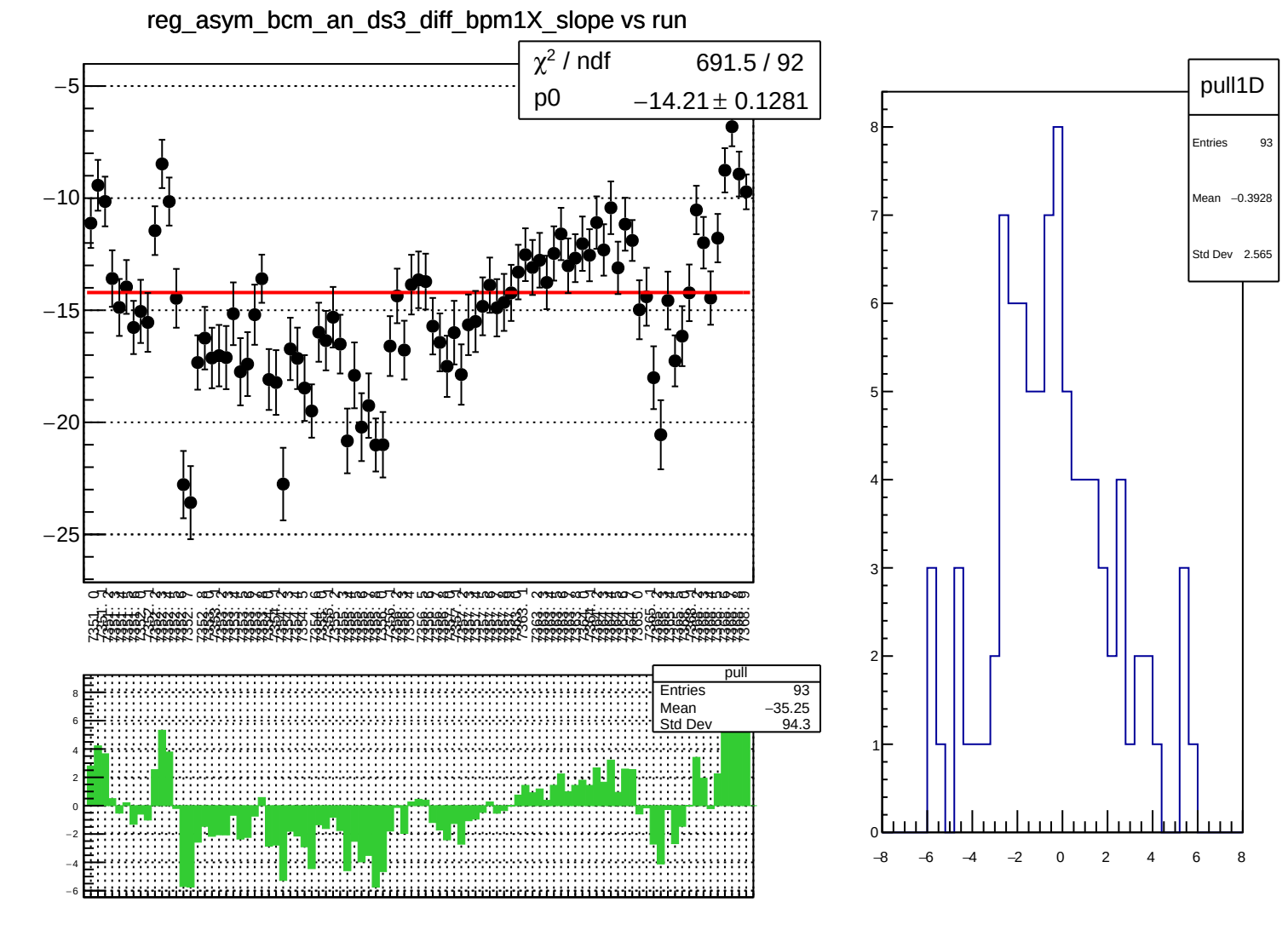

reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ² / ndf 102.5 / 92
p0 5.042 ± 0.8696
pull
Entries 93
Mean 85.71
Std Dev 66.06
pull1D
Entries 93
Mean 0.05111
Std Dev 1.049

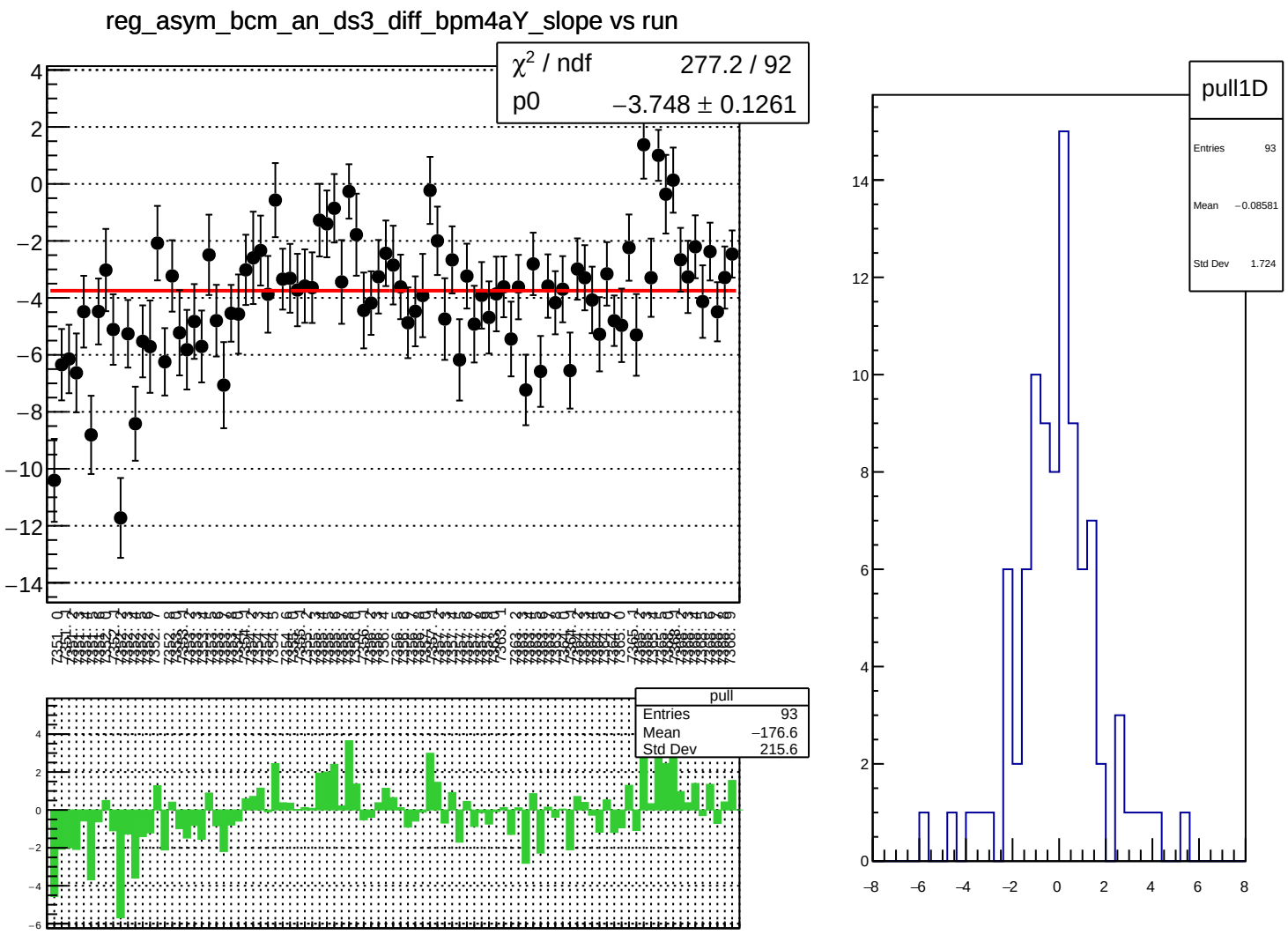

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ² / ndf 94.33 / 92
p0 8.331 ± 0.8542
pull
Entries 93
Mean 100.3
Std Dev 22.73
pull1D
Entries 93
Mean 0.02304
Std Dev 1.007

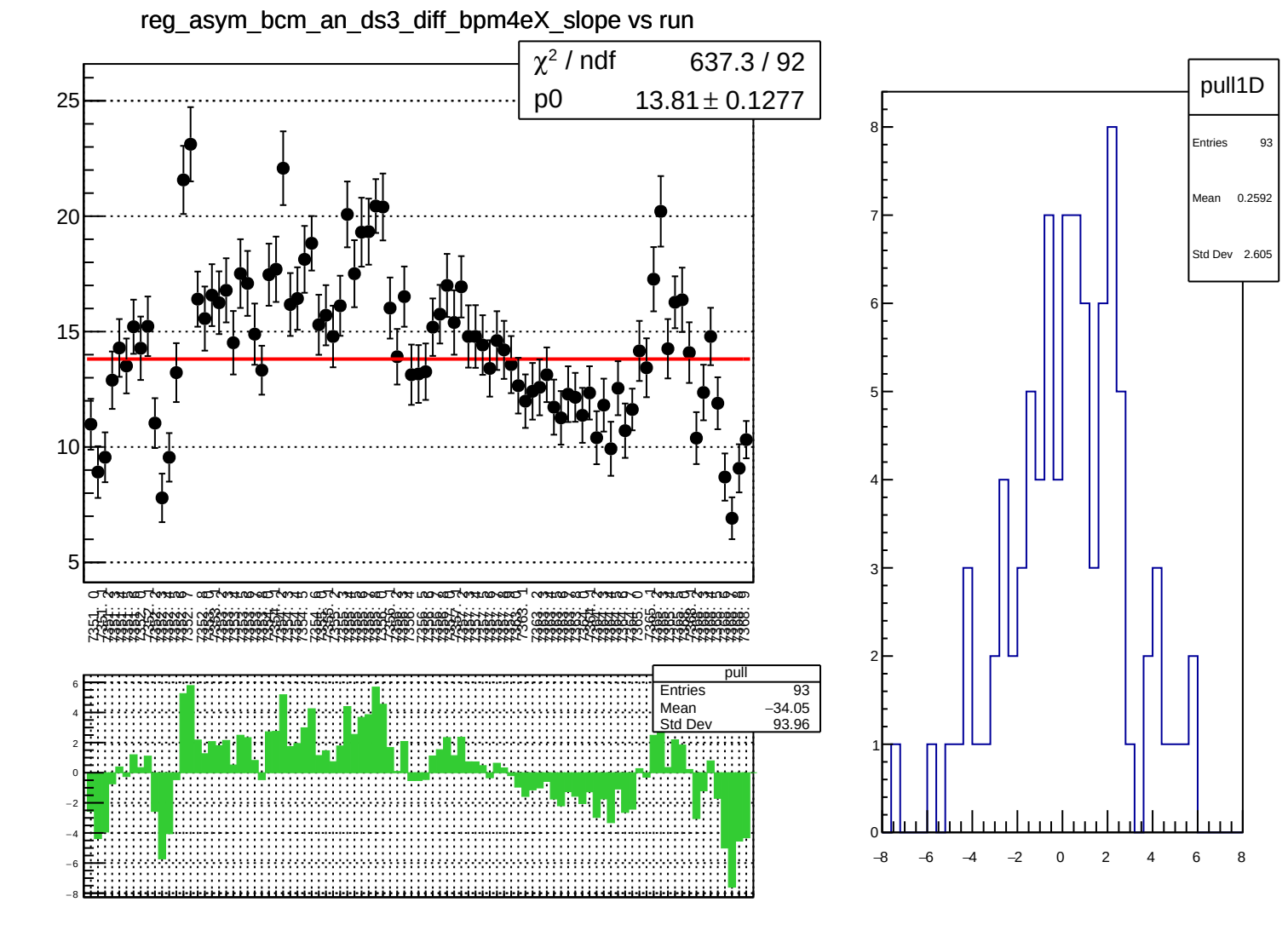

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 100.4 / 92
p0 −20.42 ± 0.8649
0
−20
−40
−60
−80
pull
Entries 93
Mean 69.6
Std Dev 56.8
3
2
1
0
−1
−2
−3
pull1D
Entries 93
Mean −0.05211
Std Dev 1.037
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

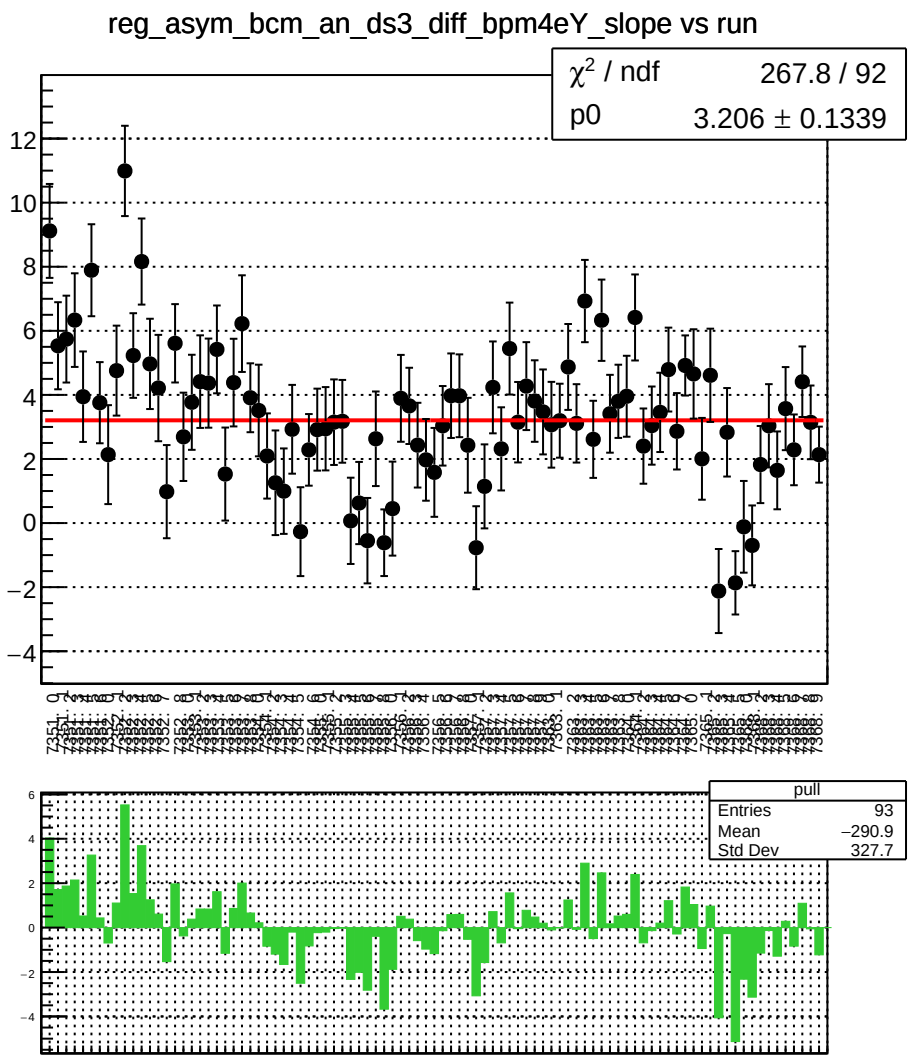

reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ² / ndf 102.7 / 92
p0 −10.96 ± 0.9067
pull
Entries 93
Mean −29.18
Std Dev 43.78
pull1D
Entries 93
Mean −0.01517
Std Dev 1.051

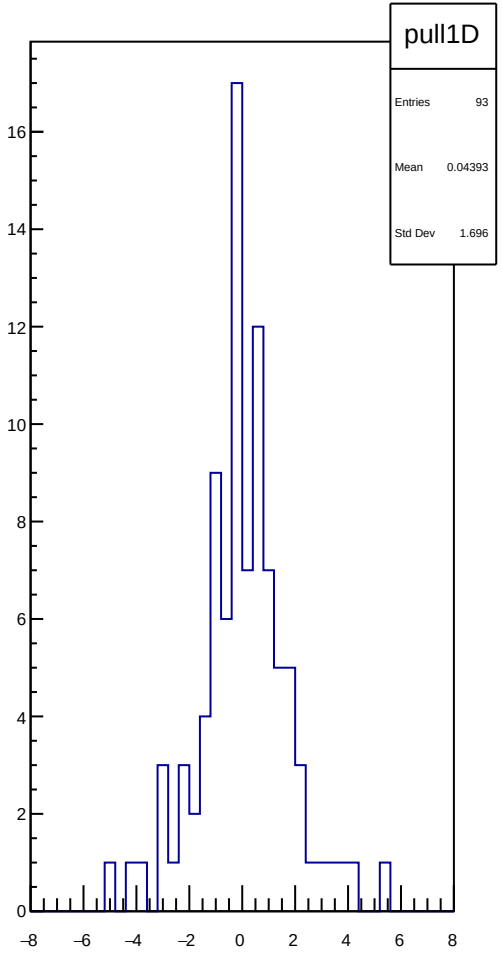

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ² / ndf 458 / 92
p0 6.235 ± 0.04258
pull
Entries 93
Mean 456.7
Std Dev 414.9
pull1D
Entries 93
Mean −0.2247
Std Dev 1.54

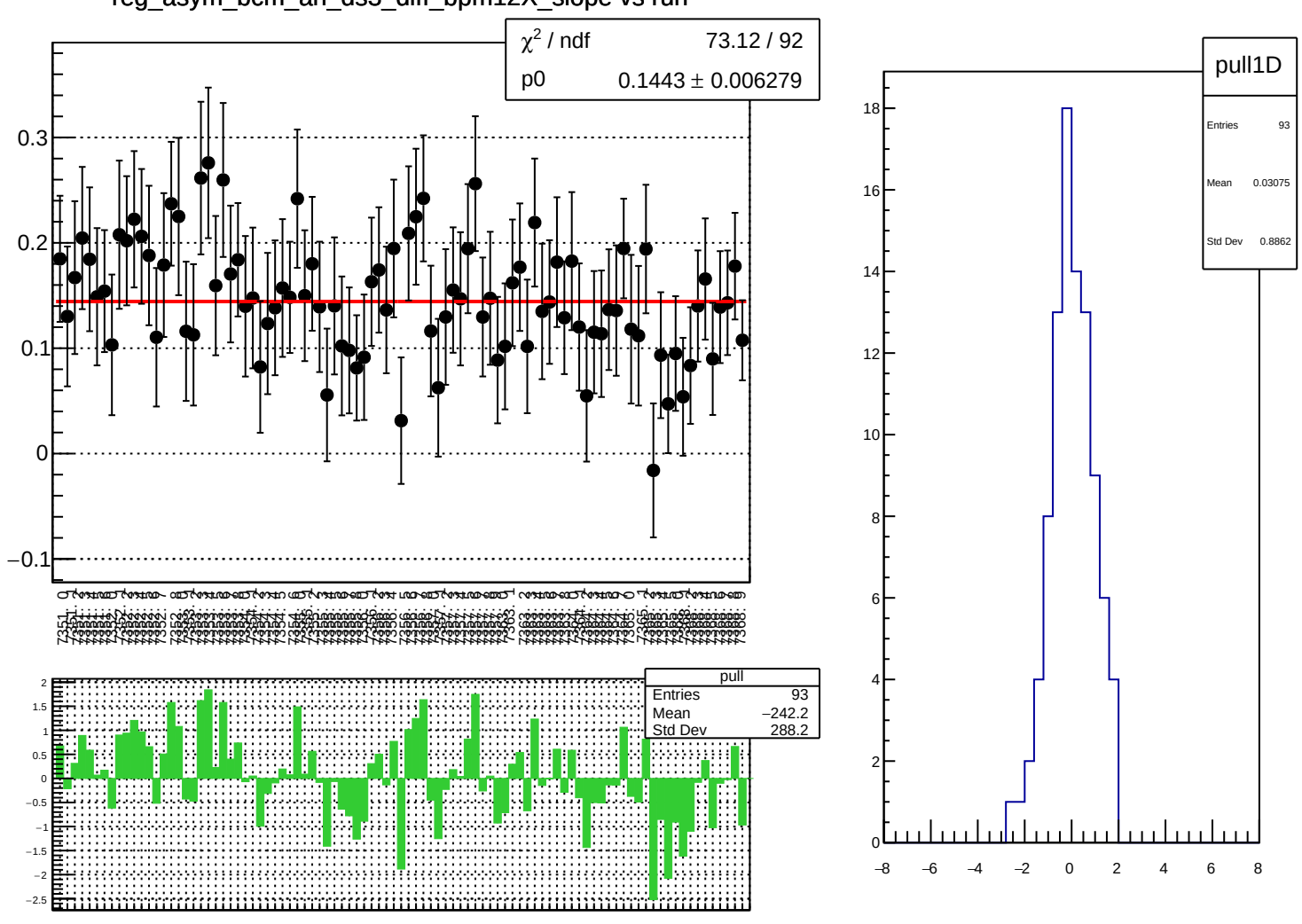

reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ² / ndf 691.5 / 92
p0 −14.21 ± 0.1281
−5
−10
−15
−20
−25
pull
Entries 93
Mean −35.25
Std Dev 94.3
pull1D
Entries 93
Mean −0.3928
Std Dev 2.565

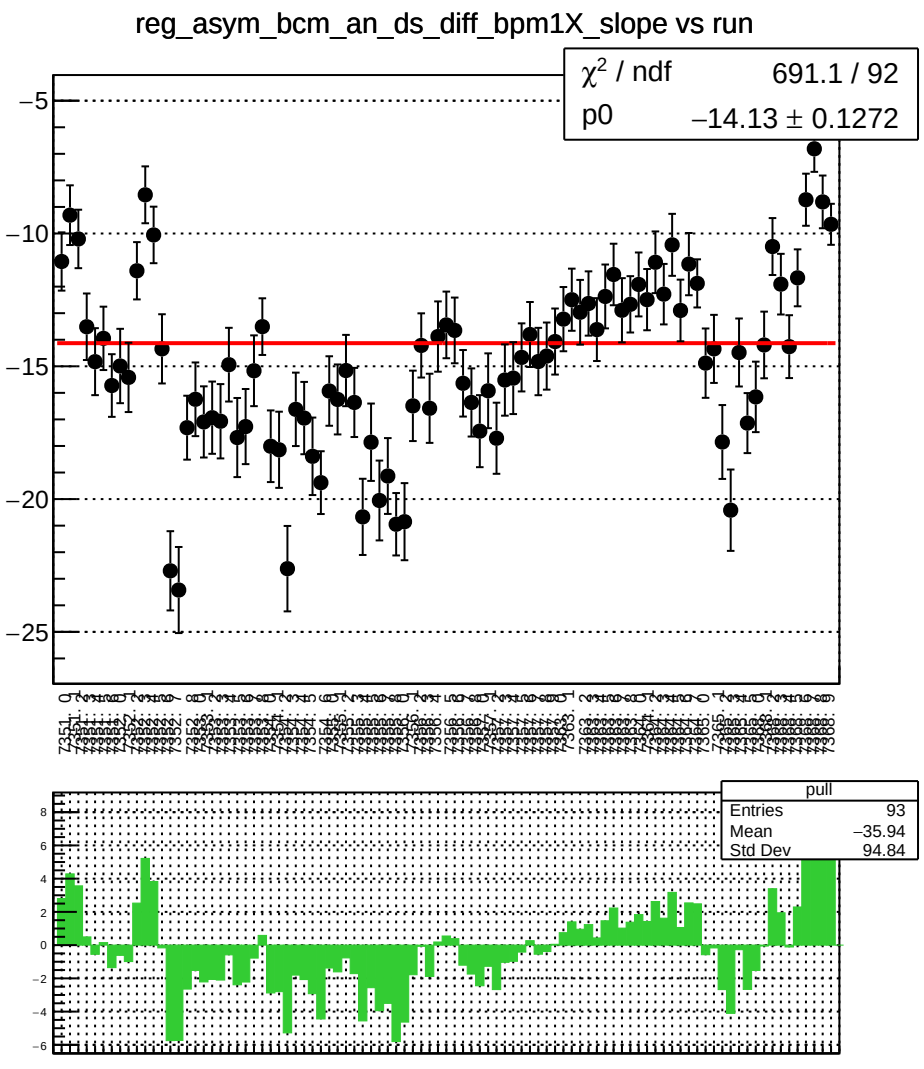

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 277.2 / 92
p0 −3.748 ± 0.1261
pull
Entries 93
Mean −176.6
Std Dev 215.6
pull1D
Entries 93
Mean −0.08581
Std Dev 1.724

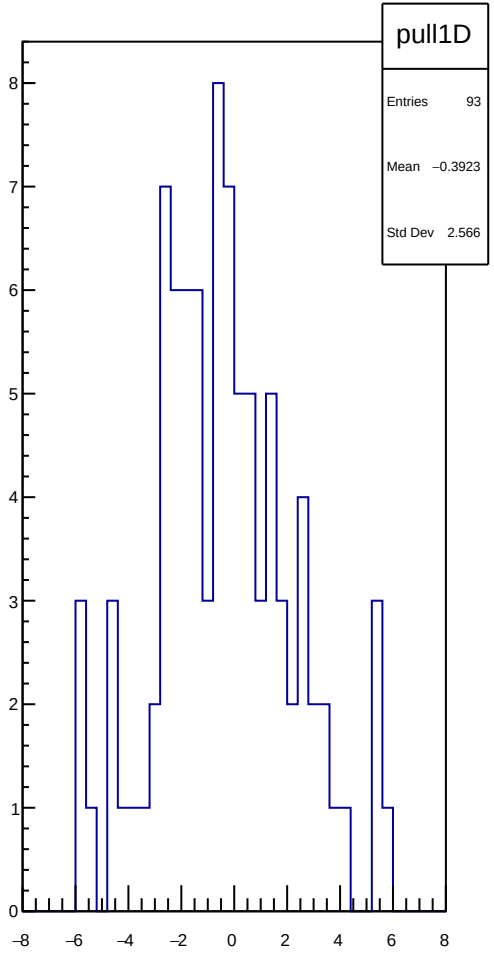

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 637.3 / 92
p0 13.81 ± 0.1277
pull
Entries 93
Mean −34.05
Std Dev 93.96
pull1D
Entries 93
Mean 0.2592
Std Dev 2.605

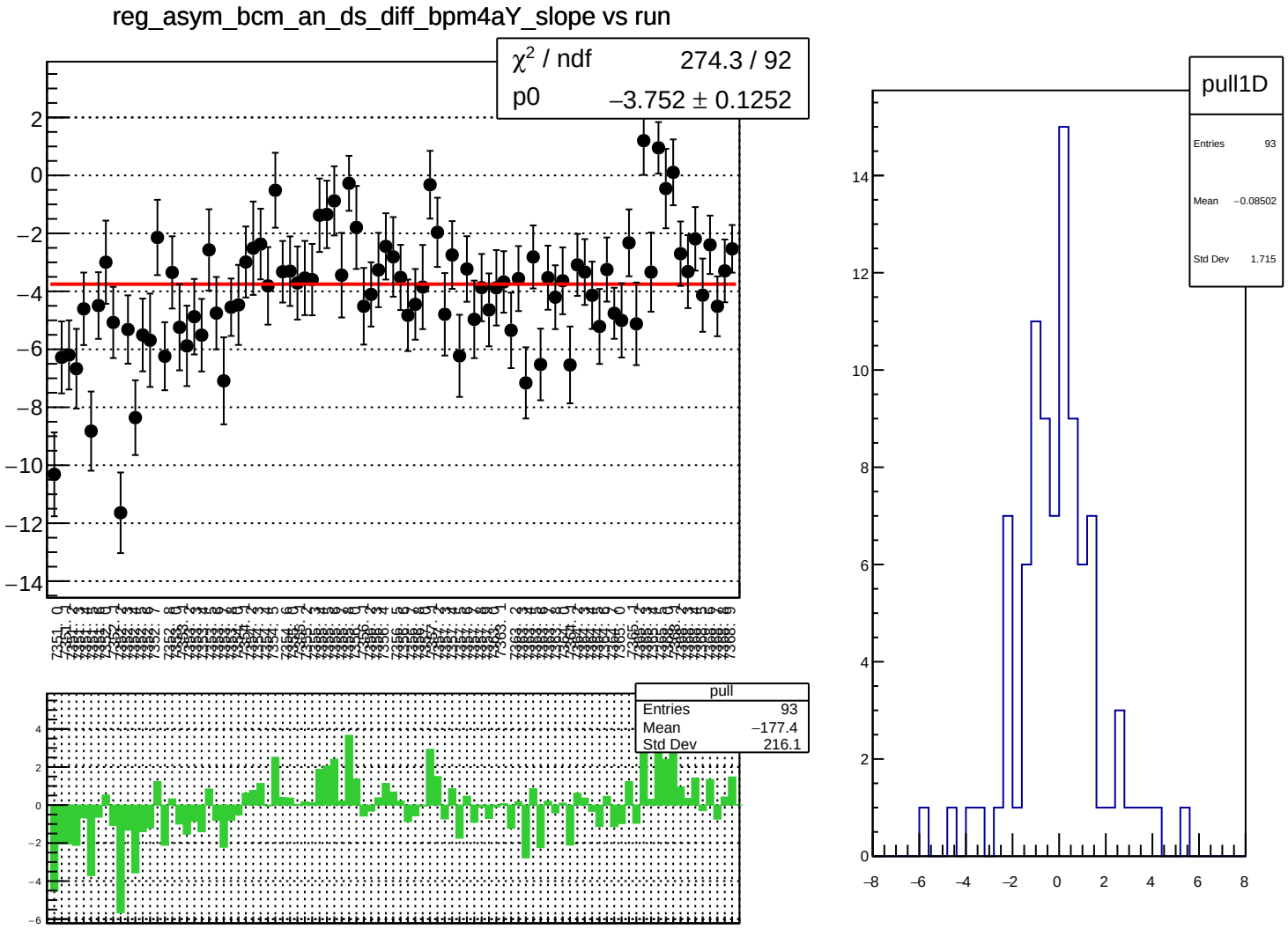

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 267.8 / 92
p0 3.206 ± 0.1339
pull
Entries 93
Mean −290.9
Std Dev 327.7

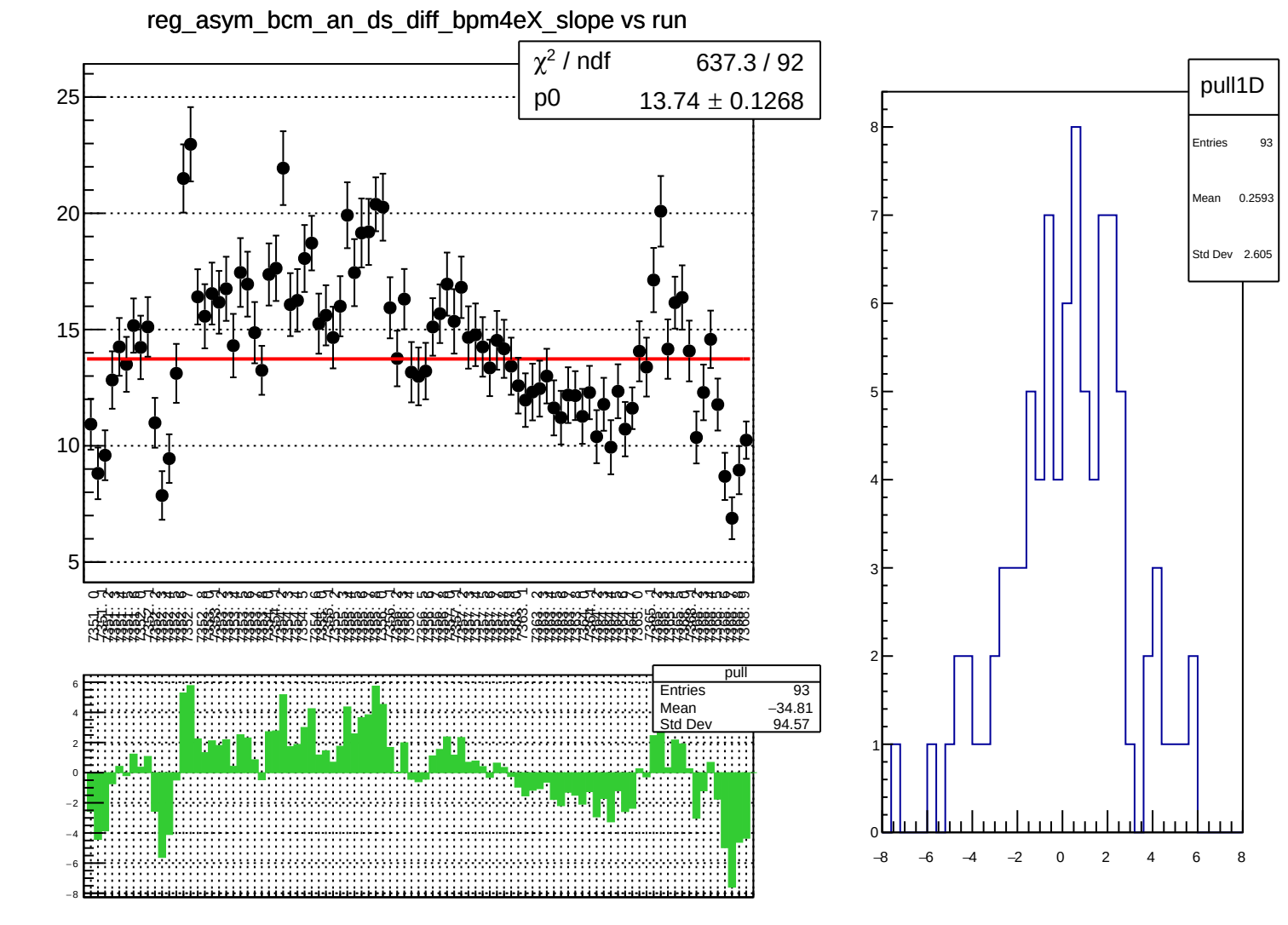

pull1D
Entries 93
Mean 0.04393
Std Dev 1.696

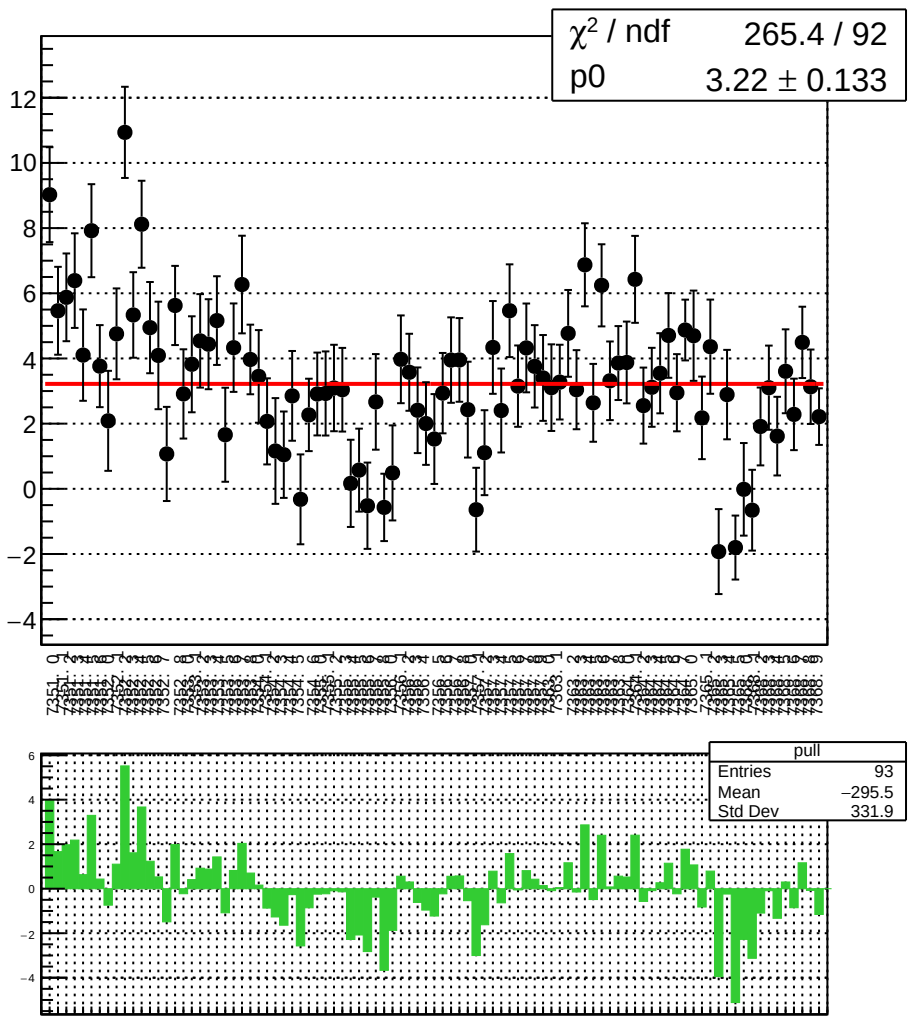

reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ² / ndf 73.12 / 92
p0 0.1443 ± 0.006279
pull
Entries 93
Mean −242.2
Std Dev 288.2
pull1D
Entries 93
Mean 0.03075
Std Dev 0.8862

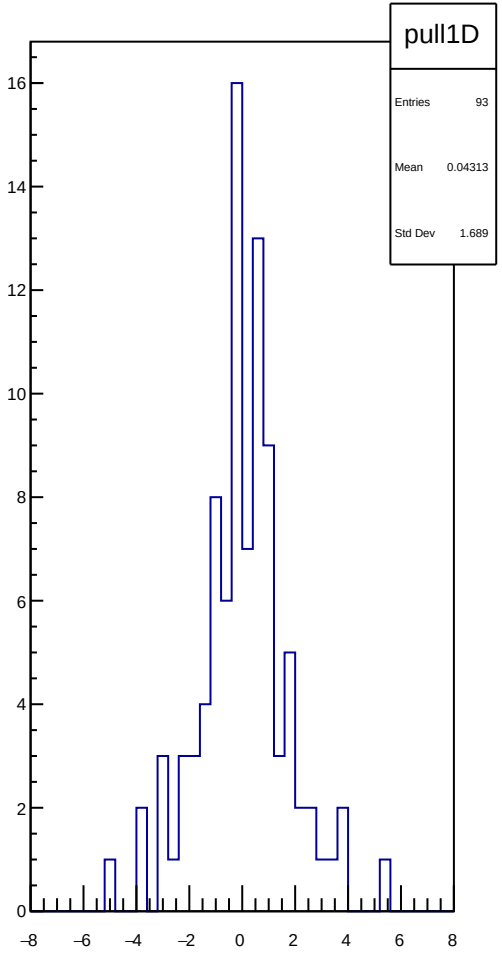

reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ² / ndf 691.1 / 92
p0 −14.13 ± 0.1272
−5
−10
−15
−20
−25
pull
Entries 93
Mean −35.94
Std Dev 94.84
8
6
4
2
0
−2
−4
−6

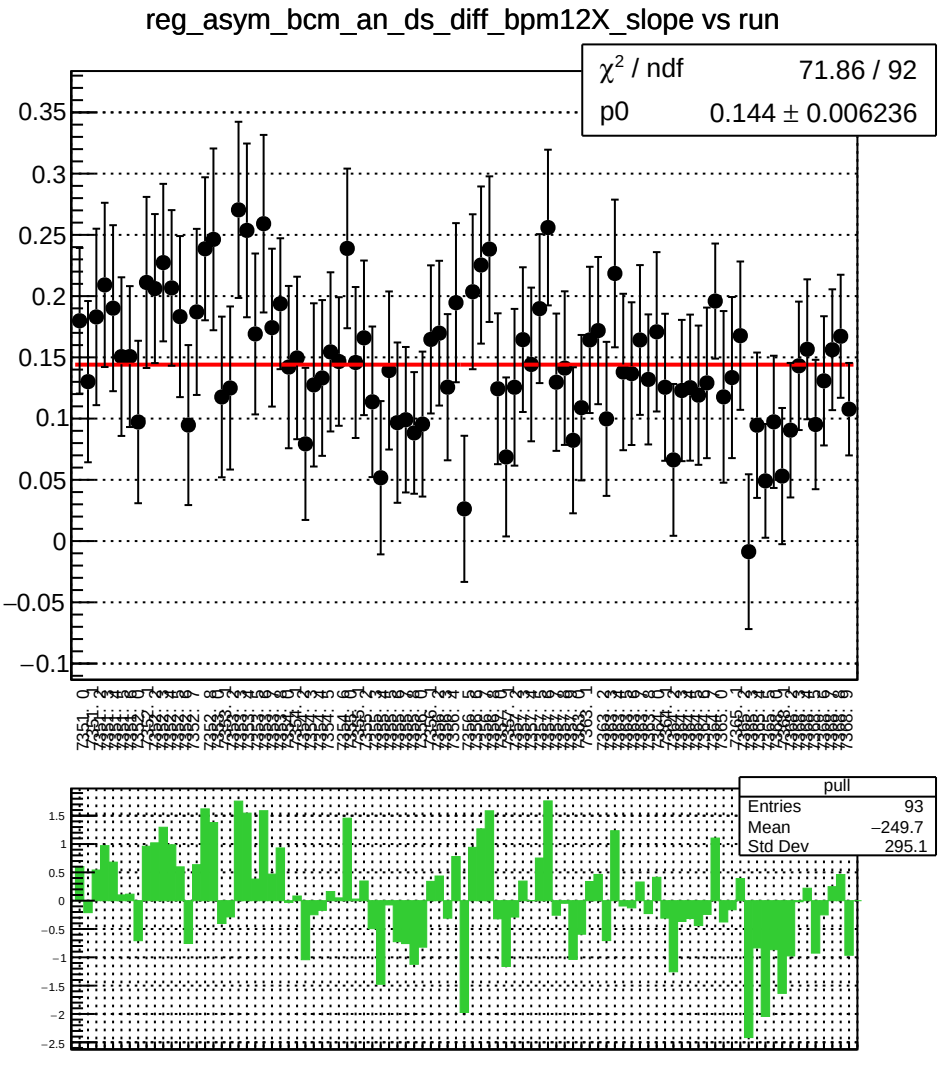

pull1D
Entries 93
Mean −0.3923
Std Dev 2.566
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

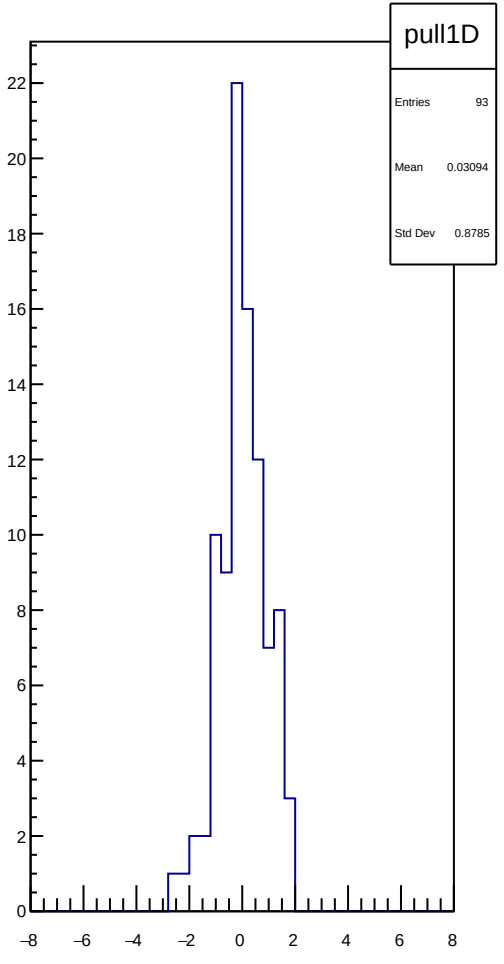

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 274.3 / 92
p0 −3.752 ± 0.1252
pull
Entries 93
Mean −177.4
Std Dev 216.1
pull1D
Entries 93
Mean −0.08502
Std Dev 1.715

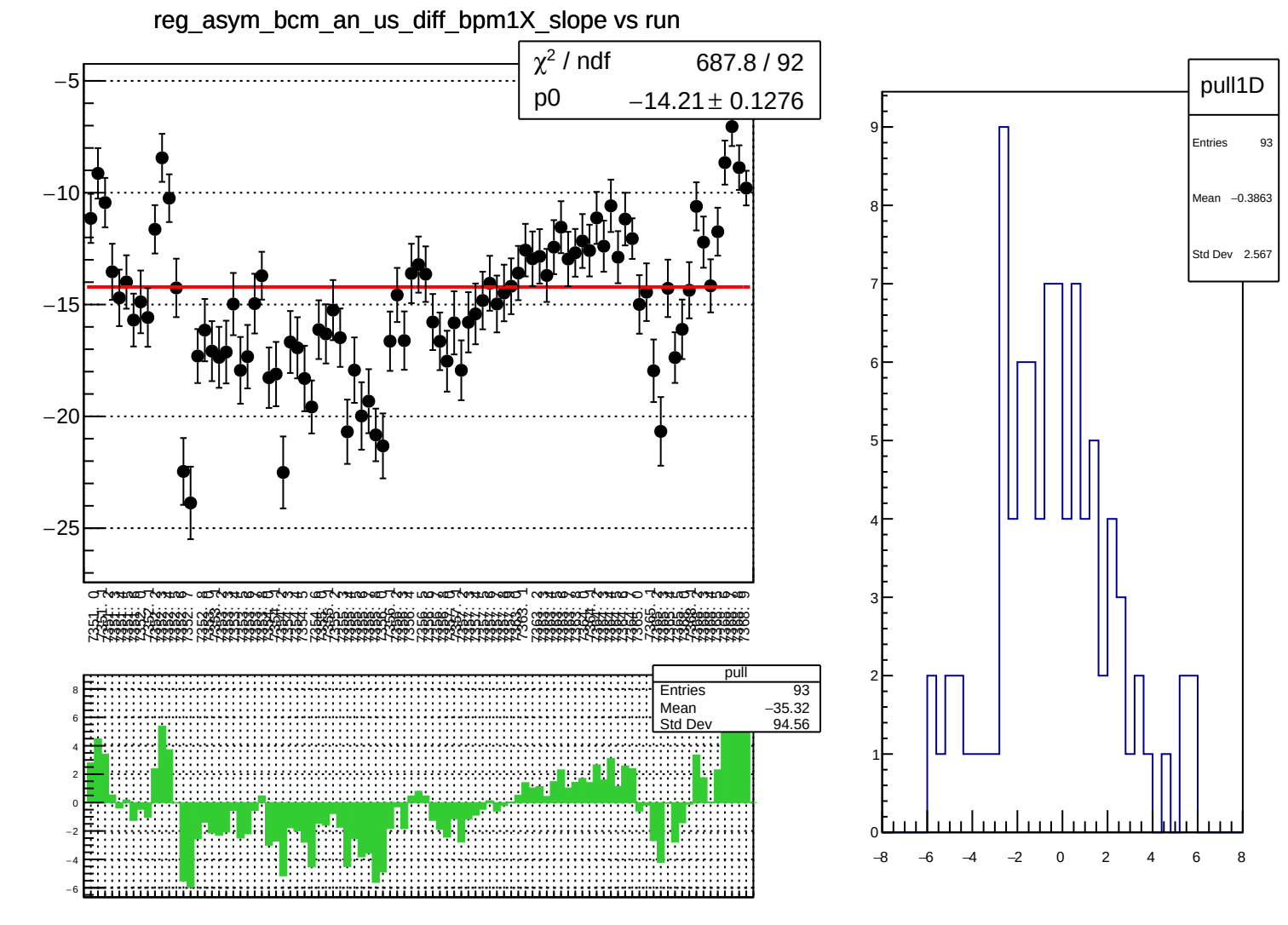

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 637.3 / 92
p0 13.74 ± 0.1268
pull
Entries 93
Mean −34.81
Std Dev 94.57
pull1D
Entries 93
Mean 0.2593
Std Dev 2.605

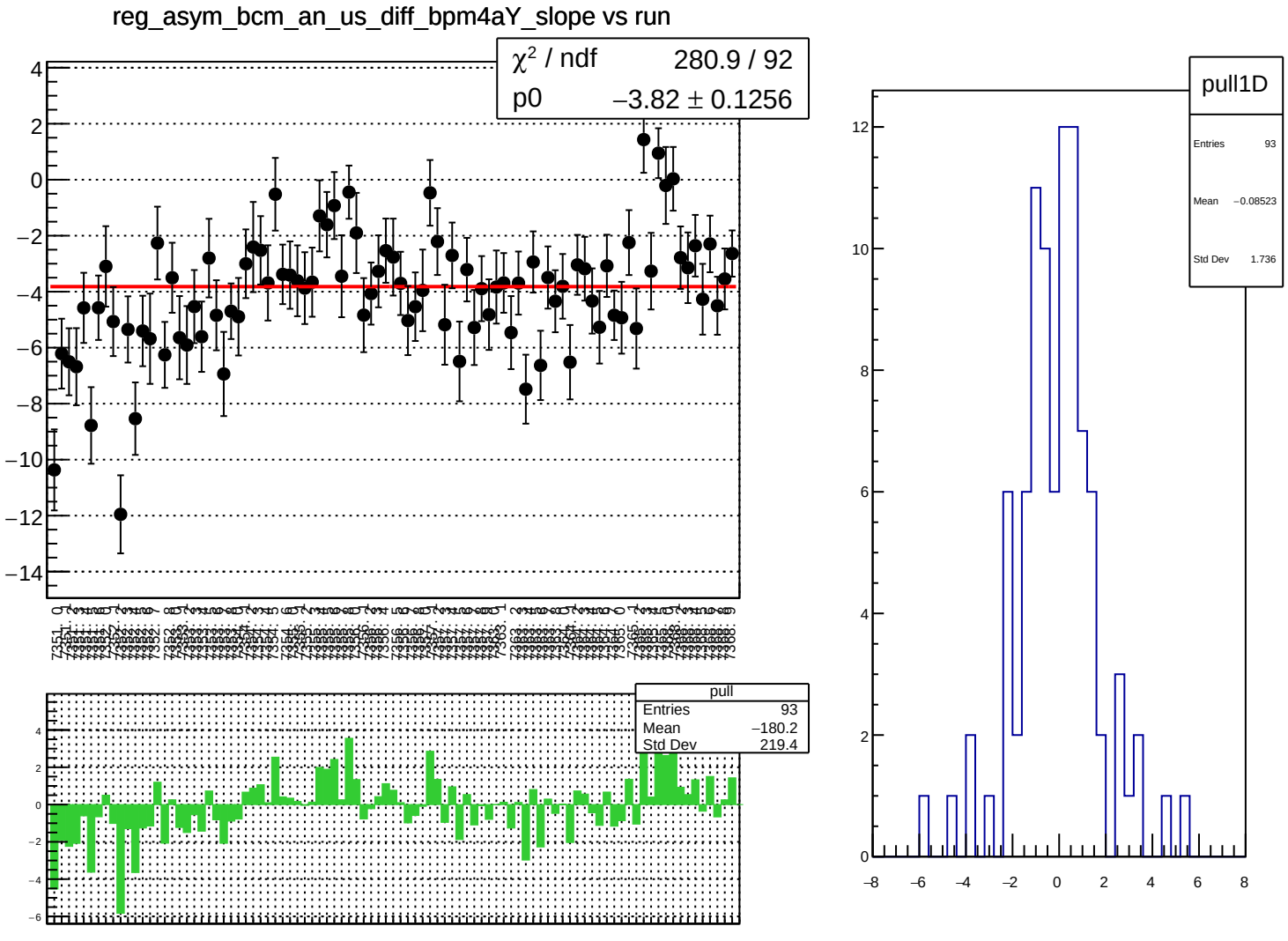

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 265.4 / 92
p0 3.22 ± 0.133
pull
Entries 93
Mean −295.5
Std Dev 331.9

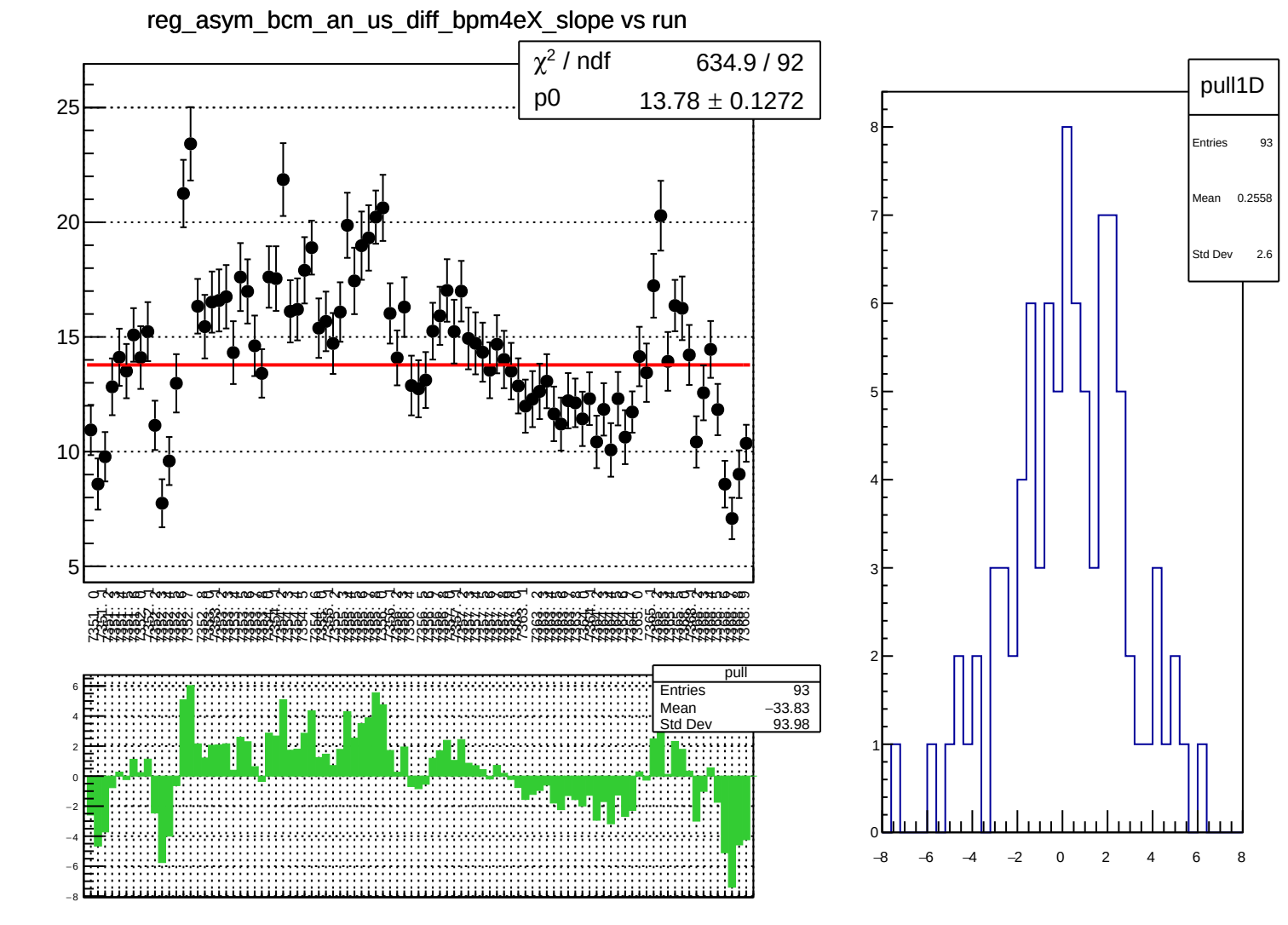

pull1D
Entries 93
Mean 0.04313
Std Dev 1.689

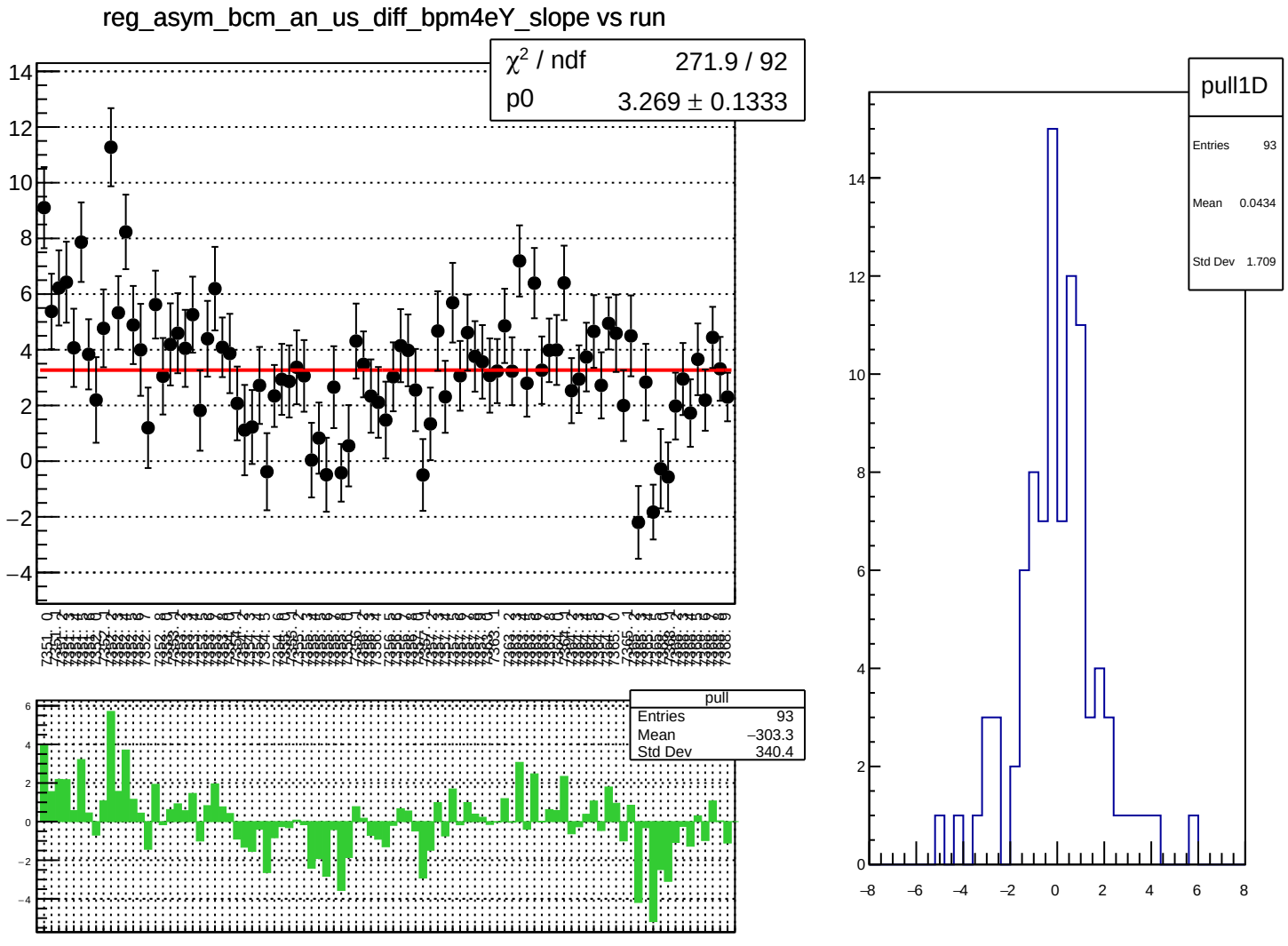

reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ² / ndf 71.86 / 92
p0 0.144 ± 0.006236
pull
Entries 93
Mean −249.7
Std Dev 295.1

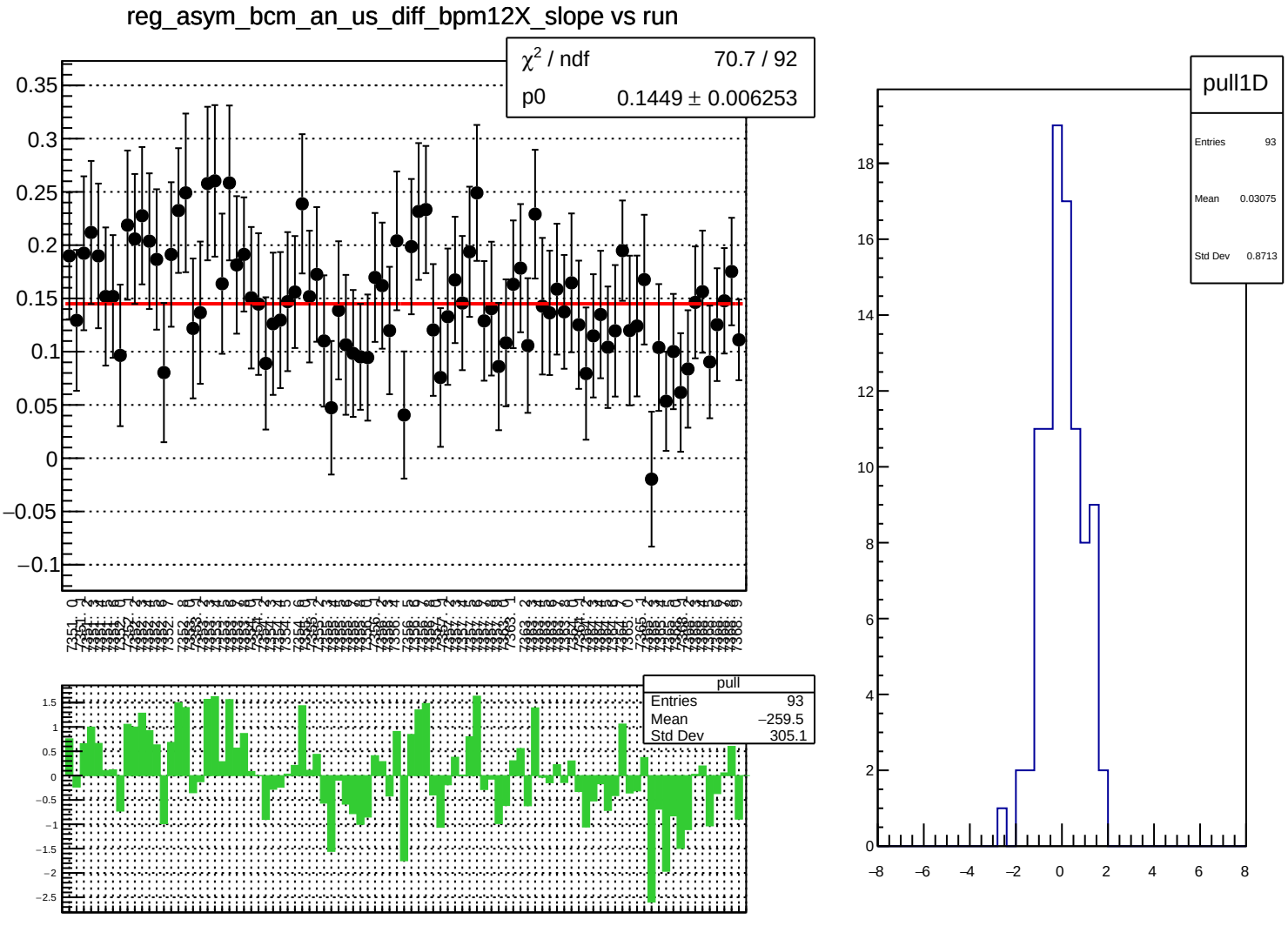

pull1D
Entries 93
Mean 0.03094
Std Dev 0.8785

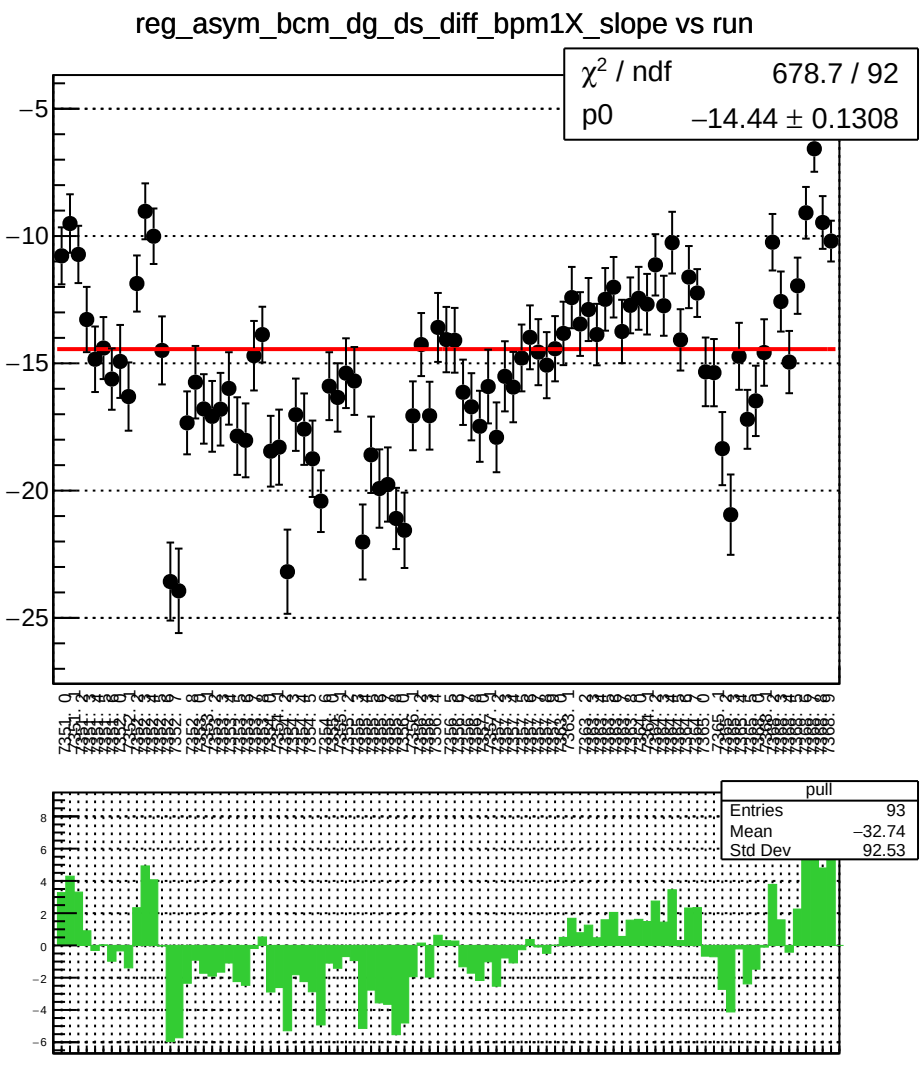

reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ² / ndf 687.8 / 92
p0 −14.21 ± 0.1276
pull
Entries 93
Mean −35.32
Std Dev 94.56
pull1D
Entries 93
Mean −0.3863
Std Dev 2.567

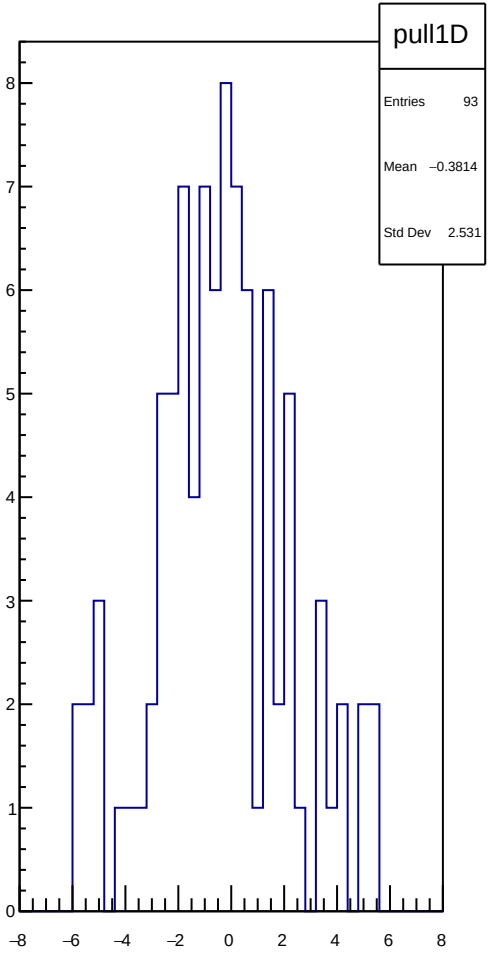

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 280.9 / 92
p0 −3.82 ± 0.1256
pull
Entries 93
Mean −180.2
Std Dev 219.4
pull1D
Entries 93
Mean −0.08523
Std Dev 1.736

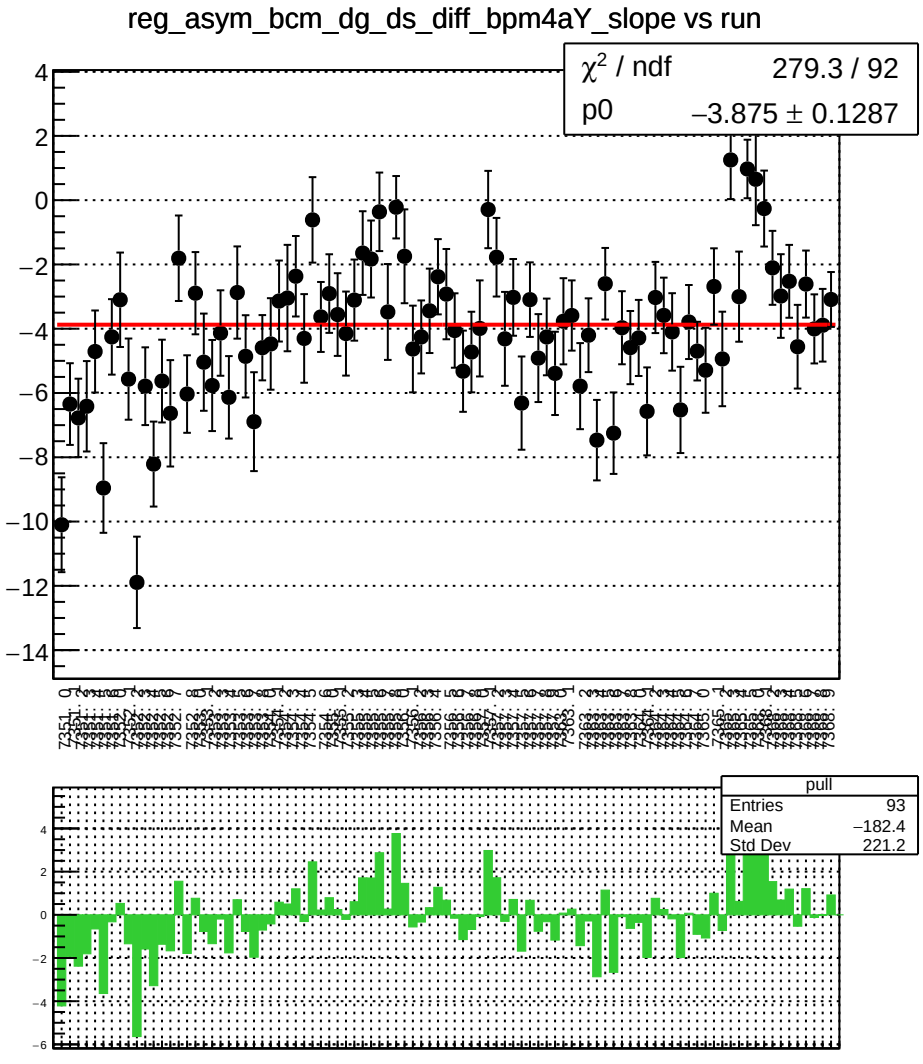

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 634.9 / 92
p0 13.78 ± 0.1272
pull
Entries 93
Mean −33.83
Std Dev 93.98
pull1D
Entries 93
Mean 0.2558
Std Dev 2.6

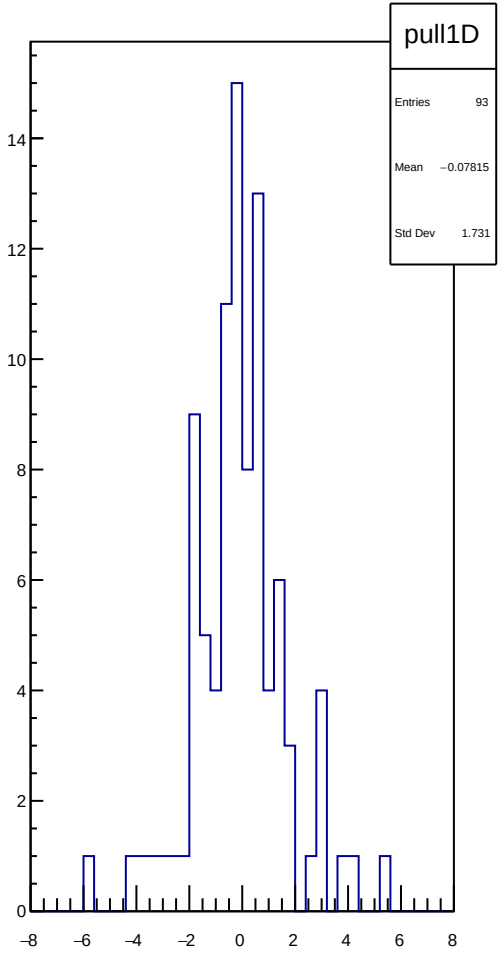

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 271.9 / 92
p0 3.269 ± 0.1333
pull
Entries 93
Mean −303.3
Std Dev 340.4
pull1D
Entries 93
Mean 0.0434
Std Dev 1.709

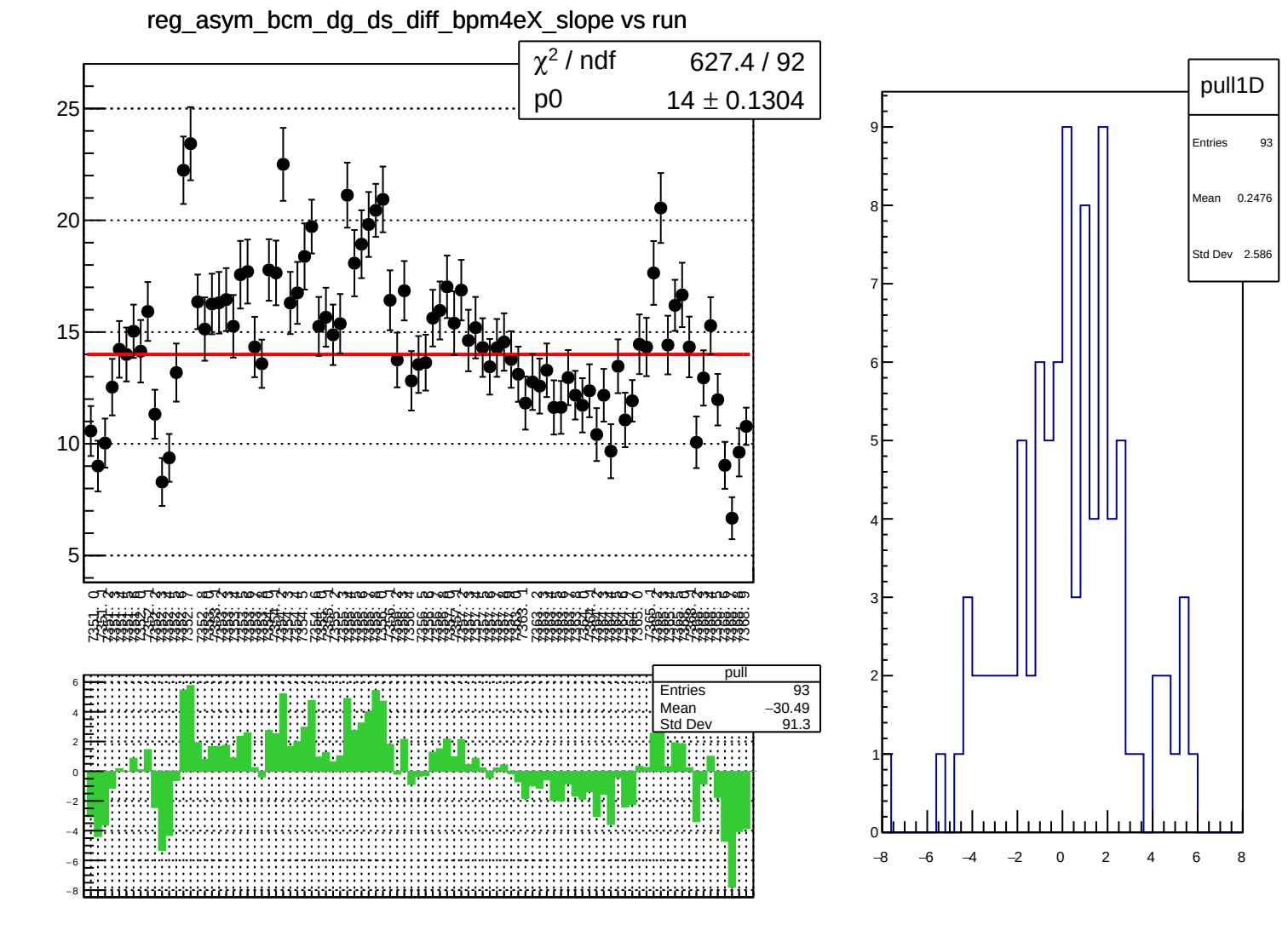

reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ² / ndf 70.7 / 92
p0 0.1449 ± 0.006253
pull
Entries 93
Mean −259.5
Std Dev 305.1
pull1D
Entries 93
Mean 0.03075
Std Dev 0.8713

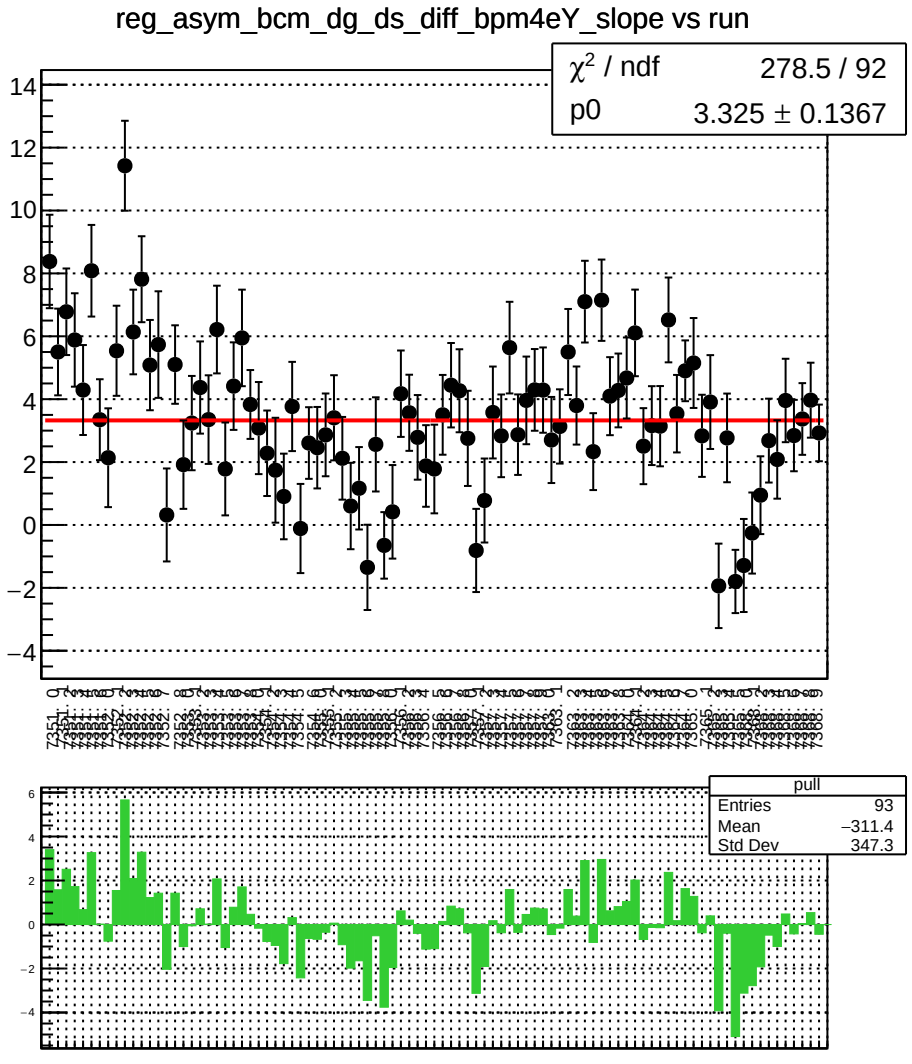

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ² / ndf 678.7 / 92
p0 −14.44 ± 0.1308
−5
−10
−15
−20
−25
pull
Entries 93
Mean −32.74
Std Dev 92.53
8
6
4
2
0
−2
−4
−6

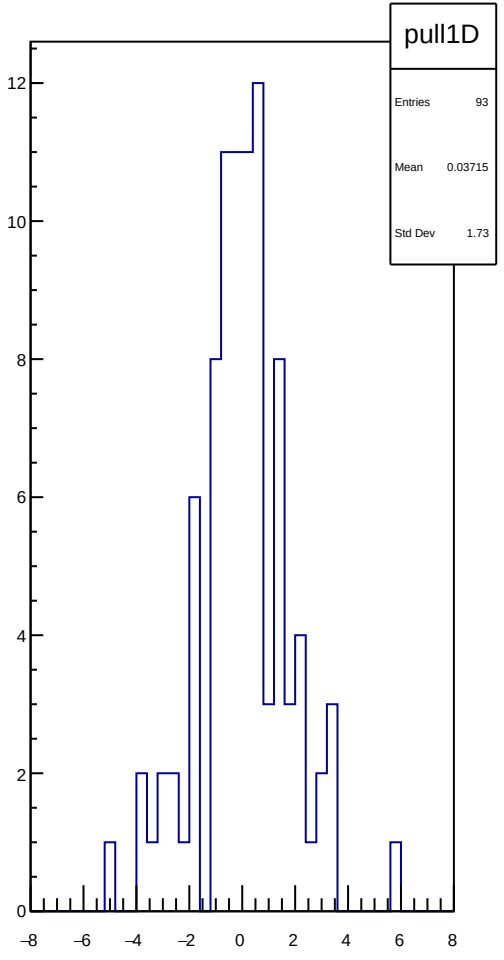

pull1D
Entries 93
Mean −0.3814
Std Dev 2.531
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

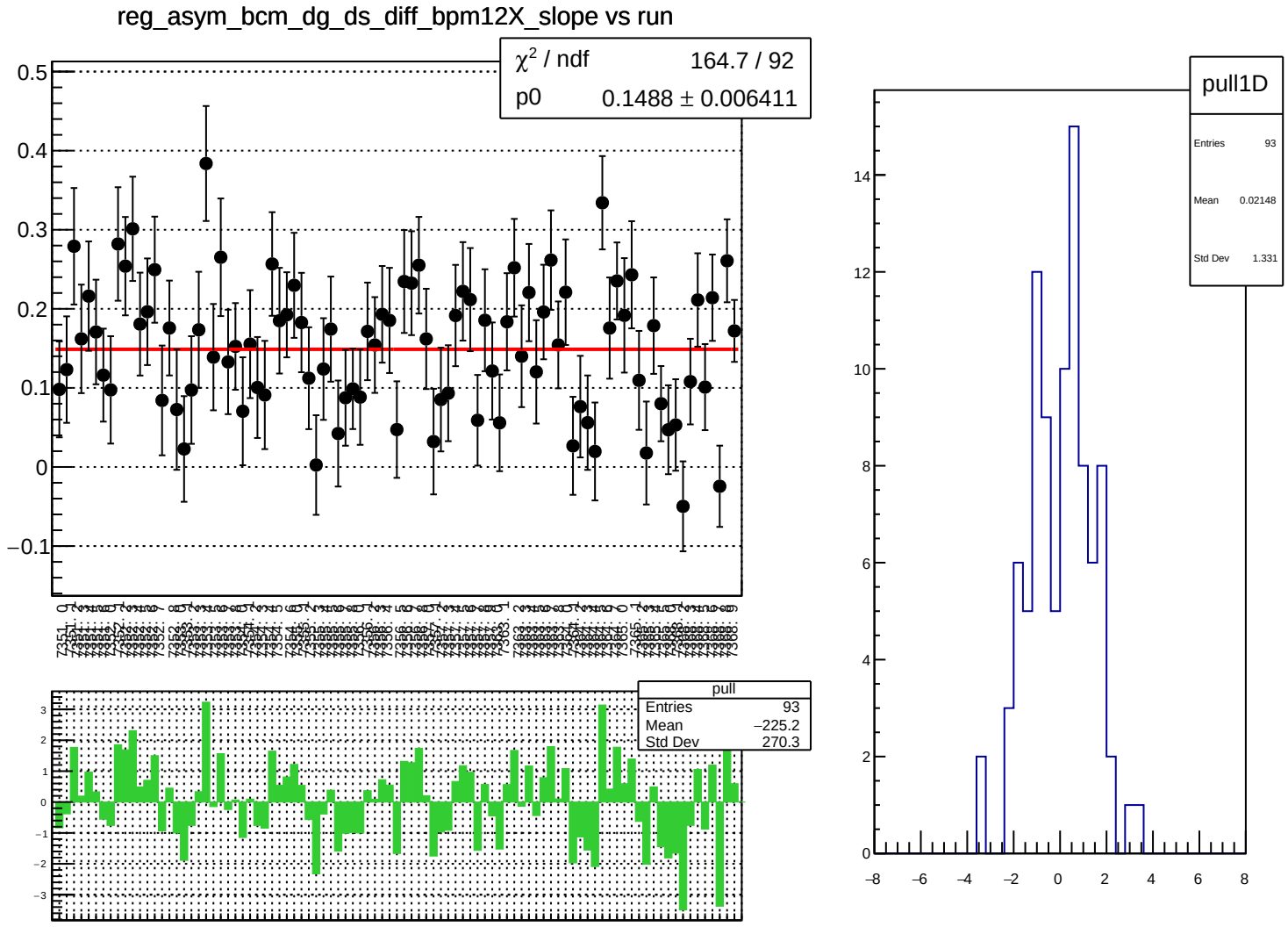

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 279.3 / 92
p0 −3.875 ± 0.1287
pull
Entries 93
Mean −182.4
Std Dev 221.2

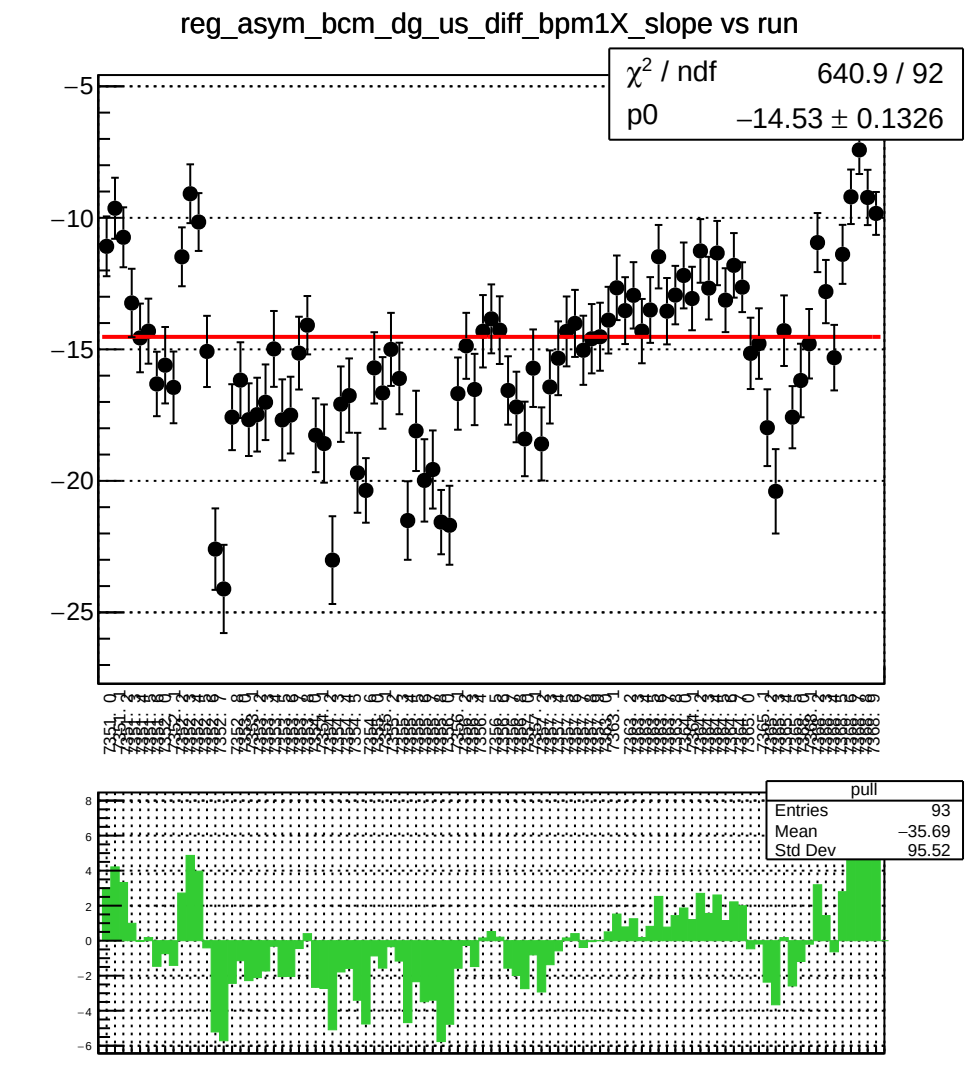

pull1D
Entries 93
Mean −0.07815
Std Dev 1.731

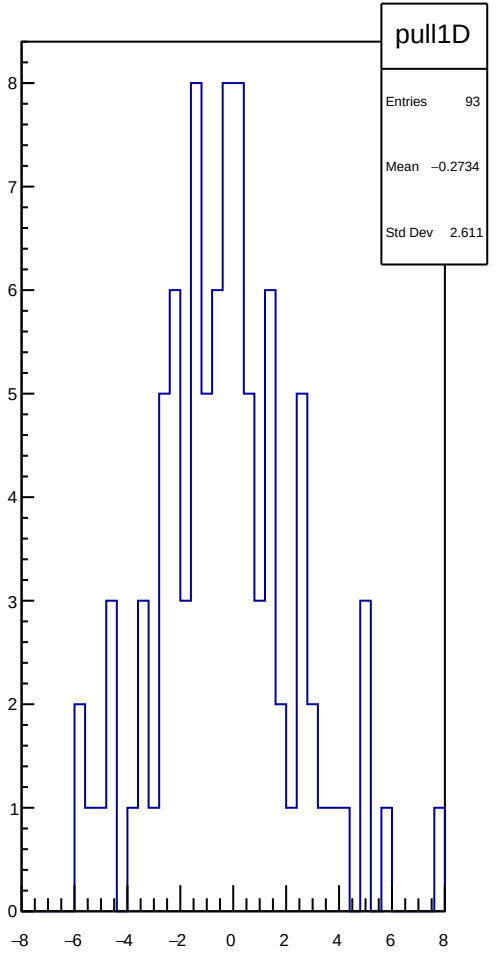

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 627.4 / 92
p0 14 ± 0.1304
pull
Entries 93
Mean −30.49
Std Dev 91.3
pull1D
Entries 93
Mean 0.2476
Std Dev 2.586

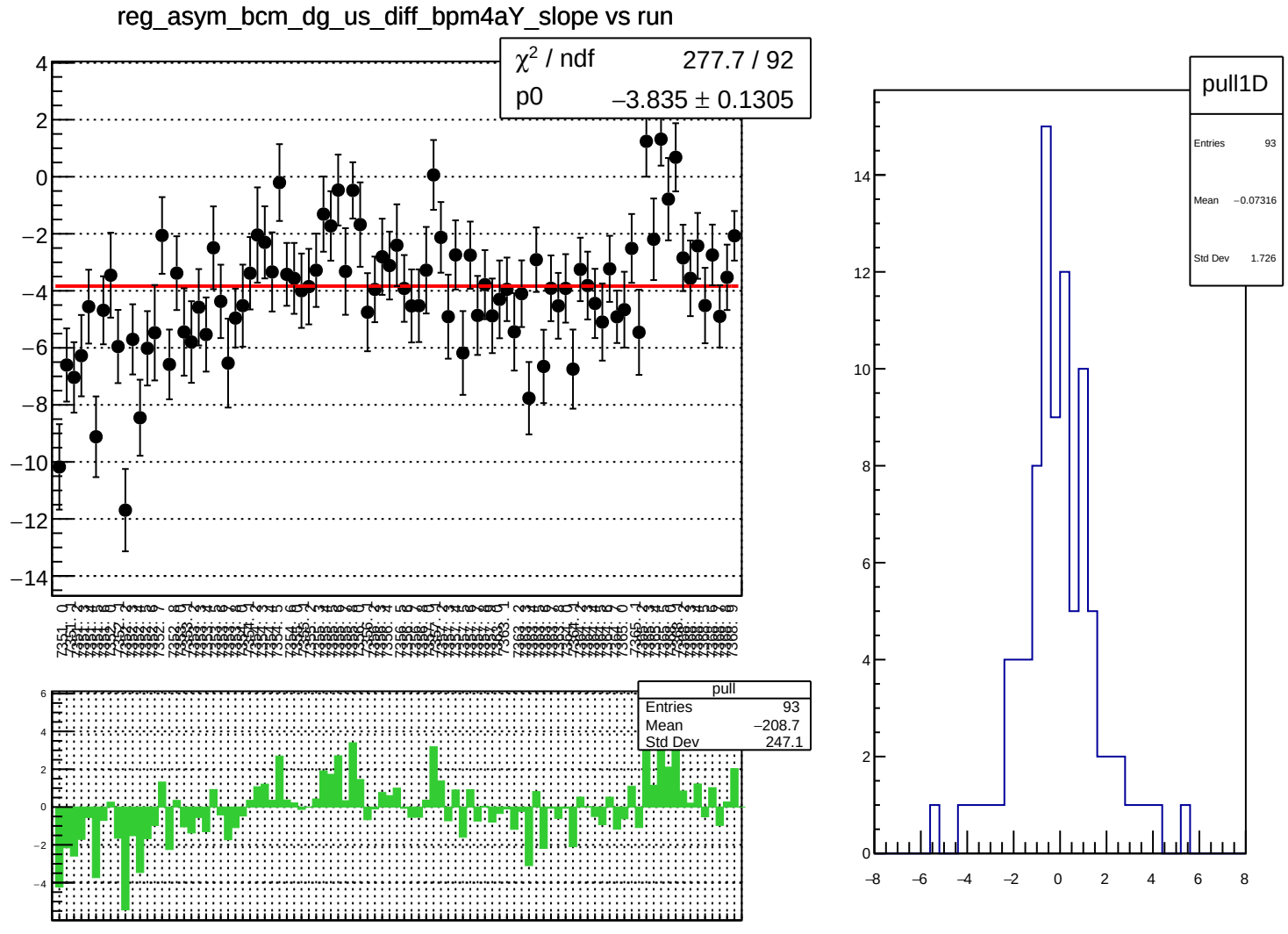

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 278.5 / 92
p0 3.325 ± 0.1367
pull
Entries 93
Mean −311.4
Std Dev 347.3

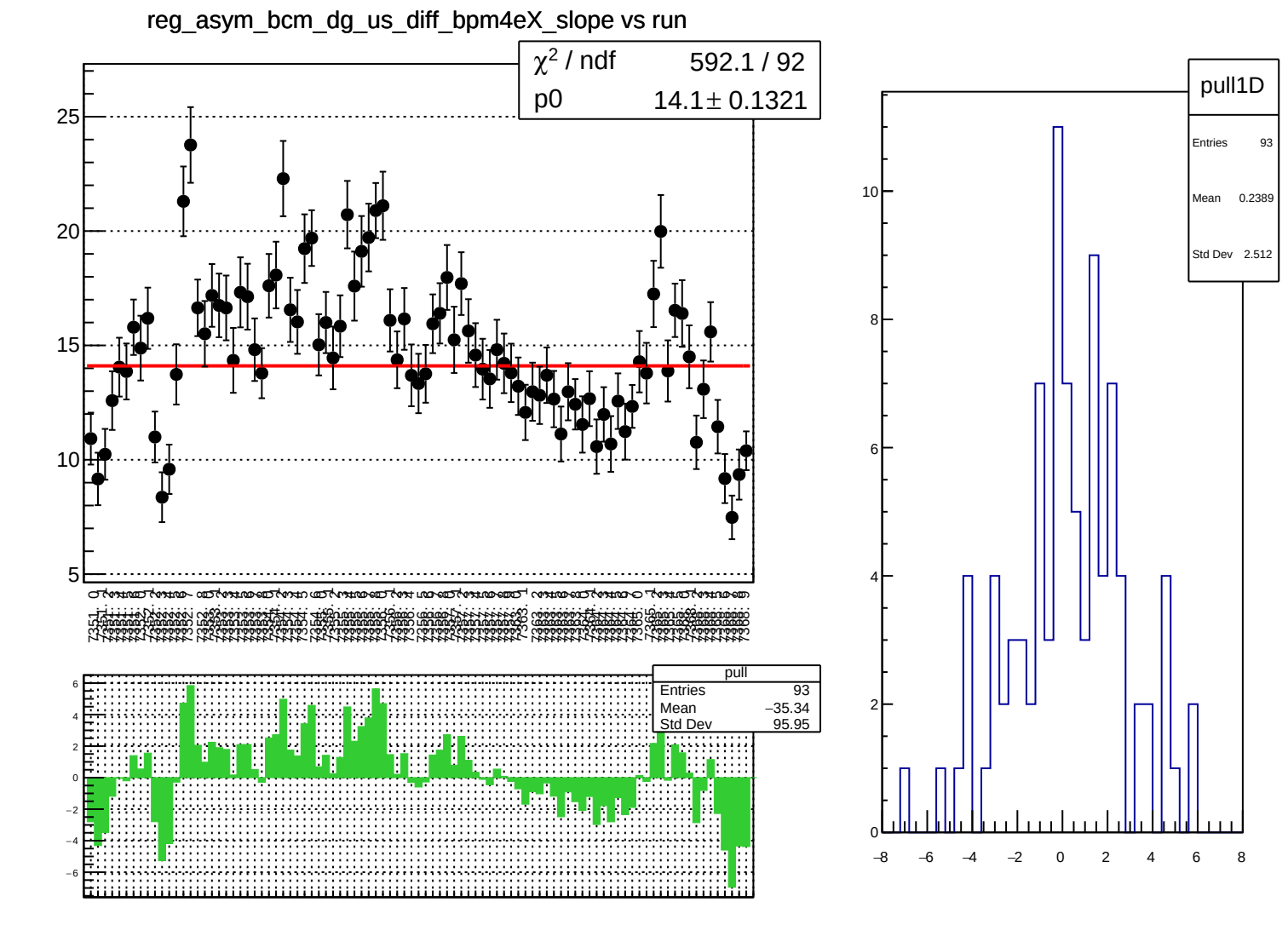

pull1D
Entries 93
Mean 0.03715
Std Dev 1.73

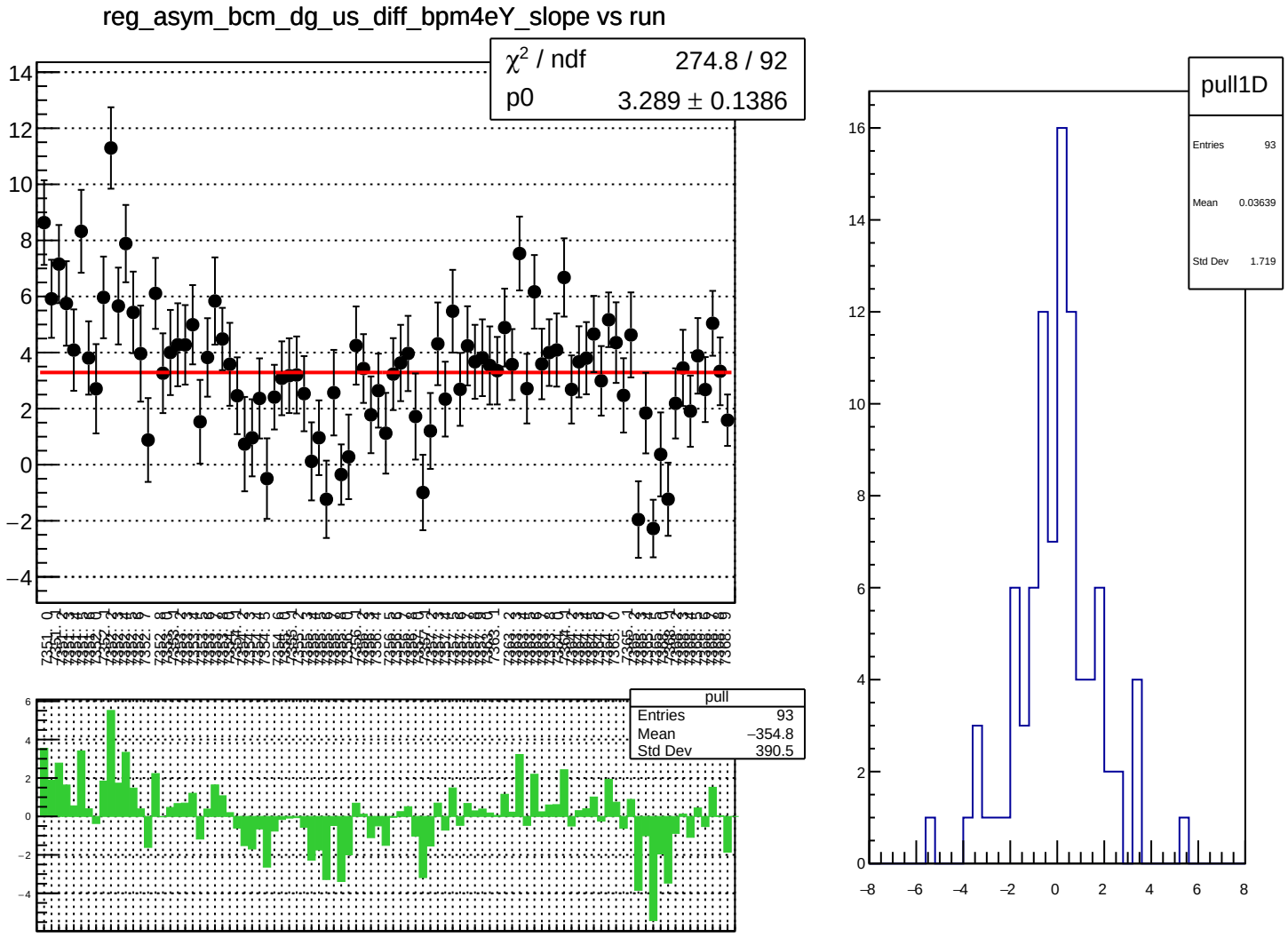

reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ² / ndf 164.7 / 92
p0 0.1488 ± 0.006411
pull
Entries 93
Mean −225.2
Std Dev 270.3
pull1D
Entries 93
Mean 0.02148
Std Dev 1.331

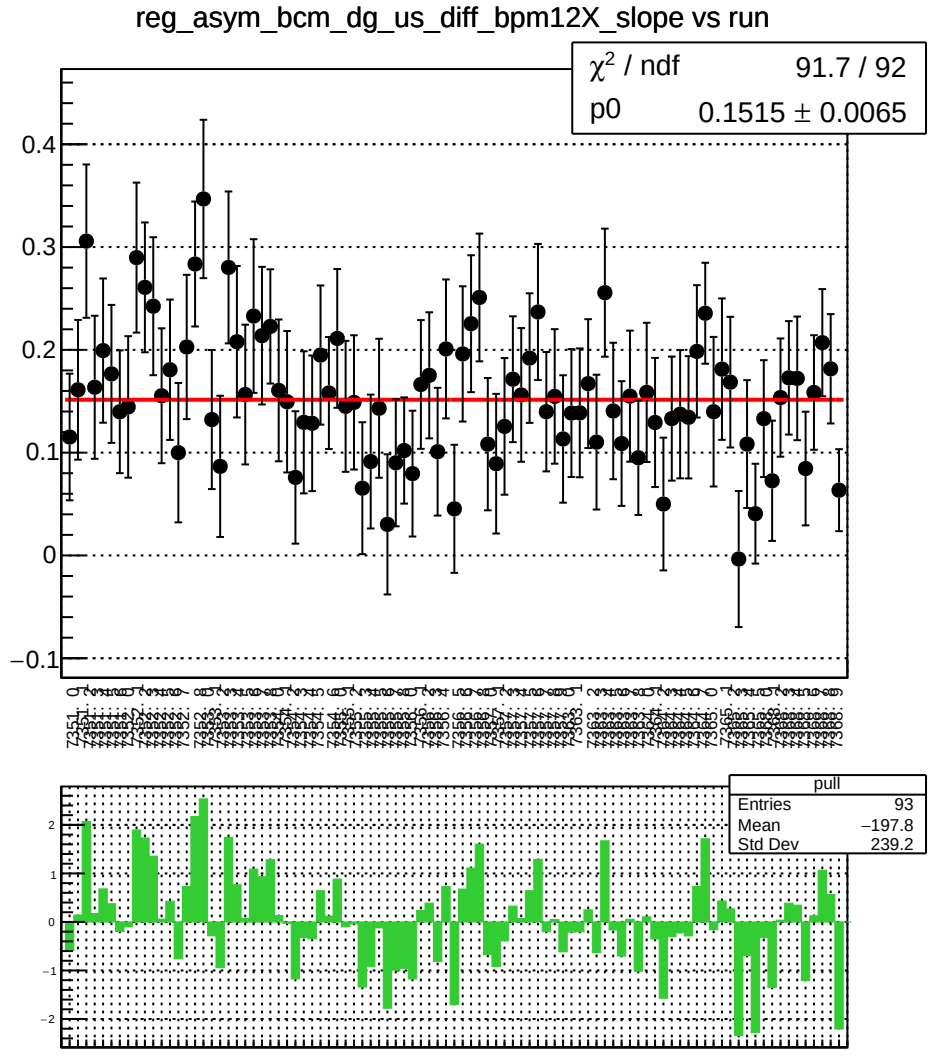

reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ² / ndf 640.9 / 92
p0 −14.53 ± 0.1326
pull
Entries 93
Mean −35.69
Std Dev 95.52

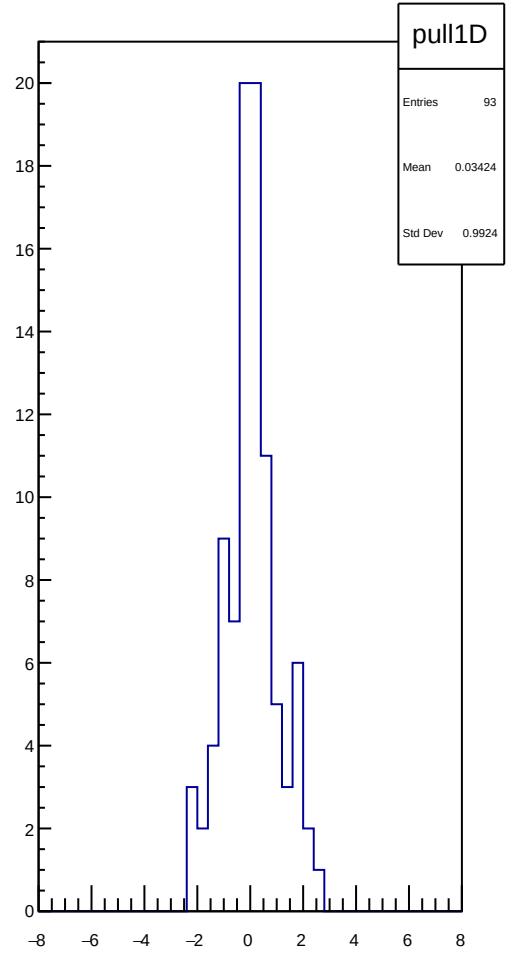

pull1D
Entries 93
Mean −0.2734
Std Dev 2.611

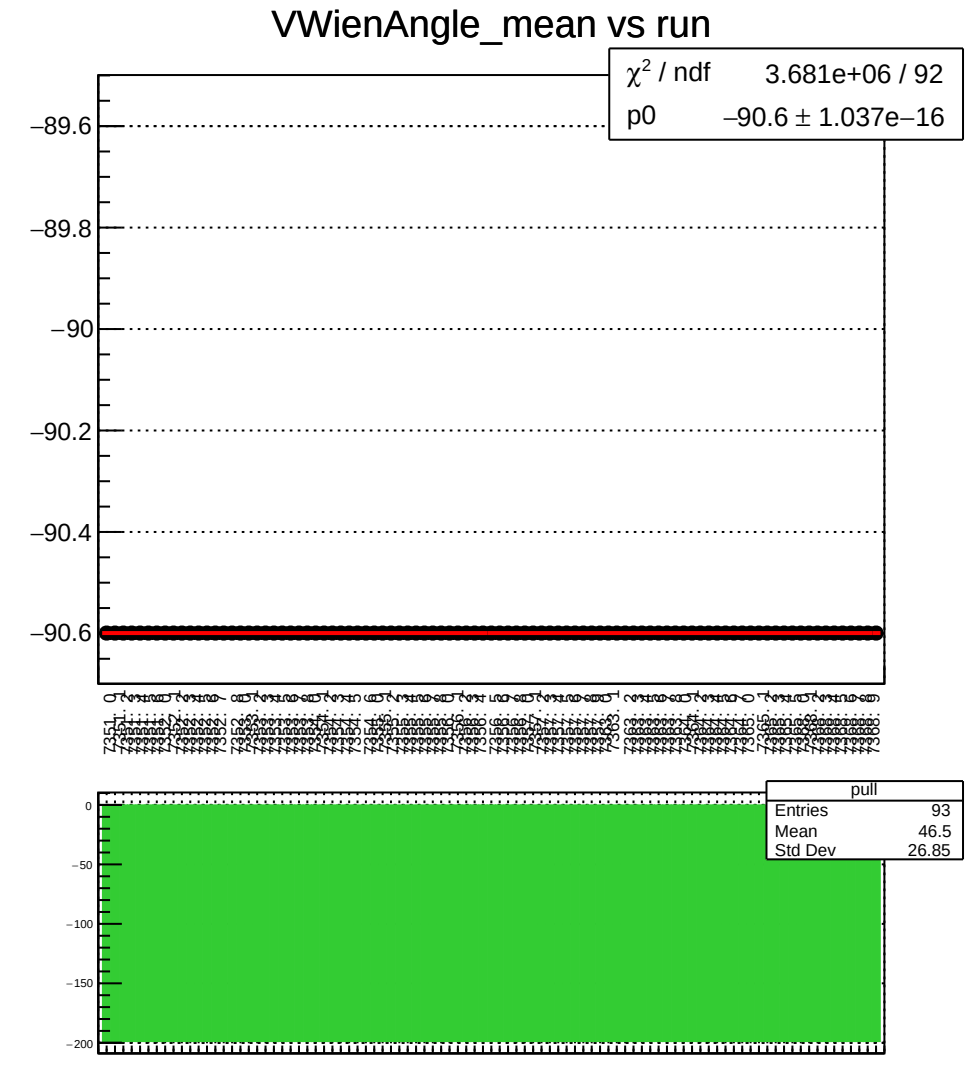

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 277.7 / 92
p0 −3.835 ± 0.1305
pull
Entries 93
Mean −208.7
Std Dev 247.1
pull1D
Entries 93
Mean −0.07316
Std Dev 1.726

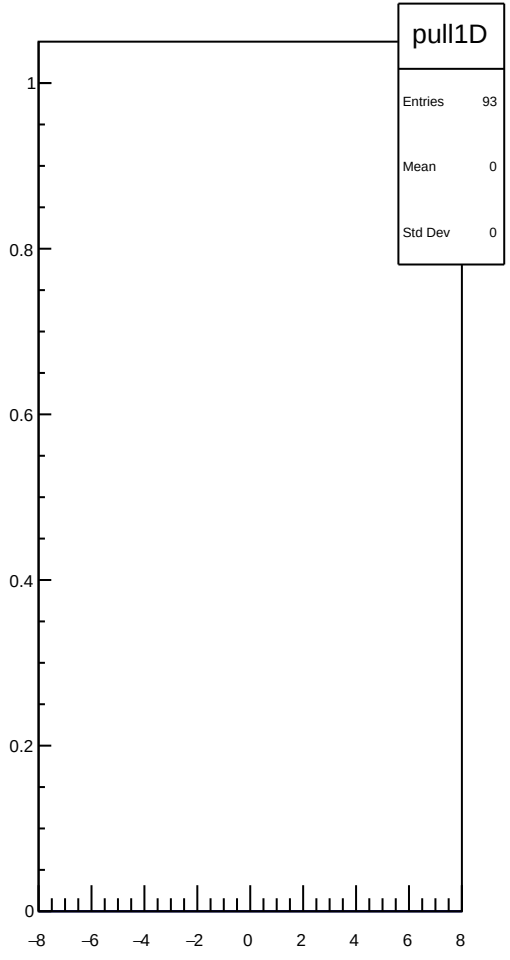

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 592.1 / 92
p0 14.1 ± 0.1321
pull
Entries 93
Mean −35.34
Std Dev 95.95
pull1D
Entries 93
Mean 0.2389
Std Dev 2.512

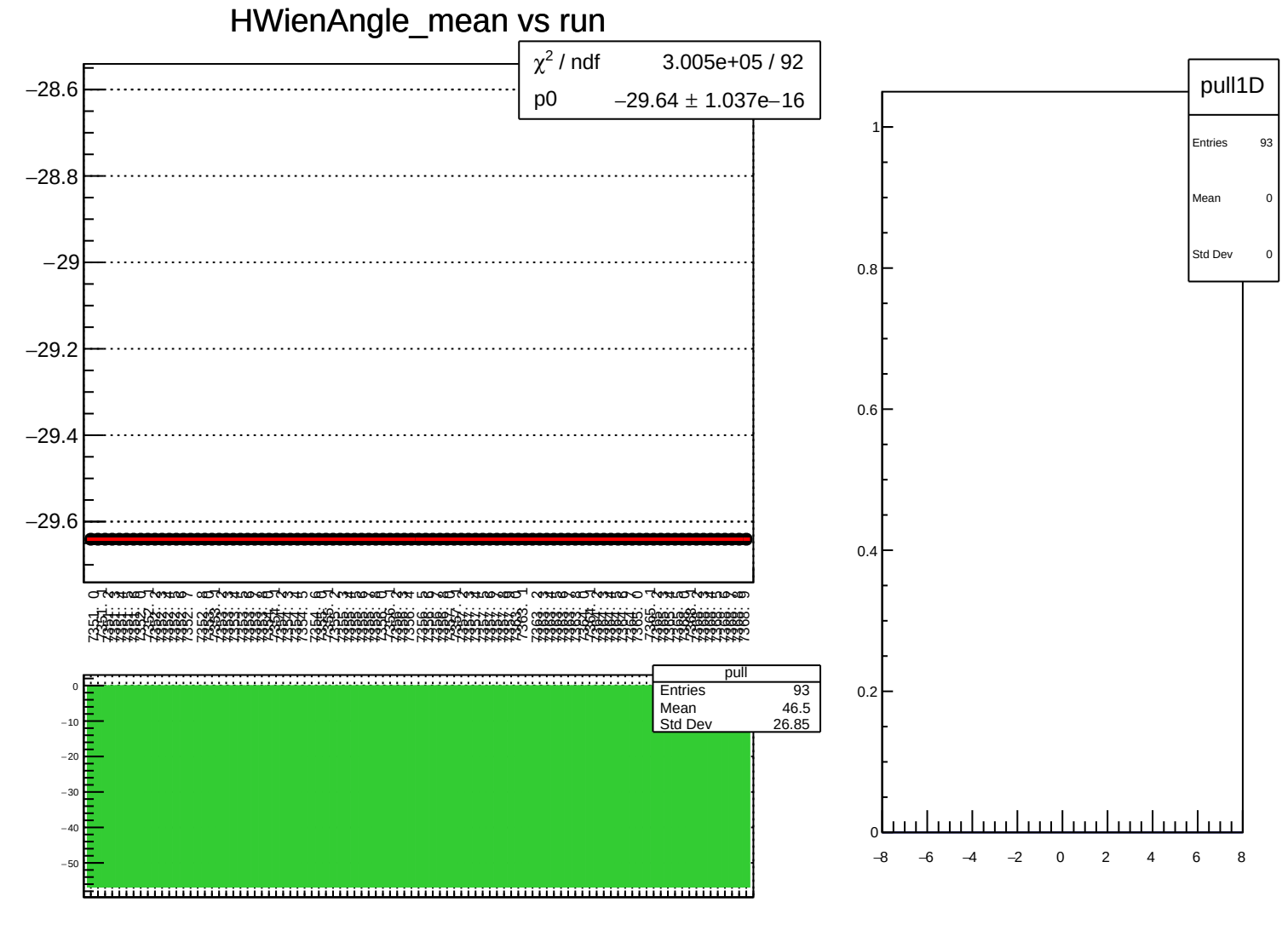

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 274.8 / 92
p0 3.289 ± 0.1386
pull
Entries 93
Mean −354.8
Std Dev 390.5
pull1D
Entries 93
Mean 0.03639
Std Dev 1.719

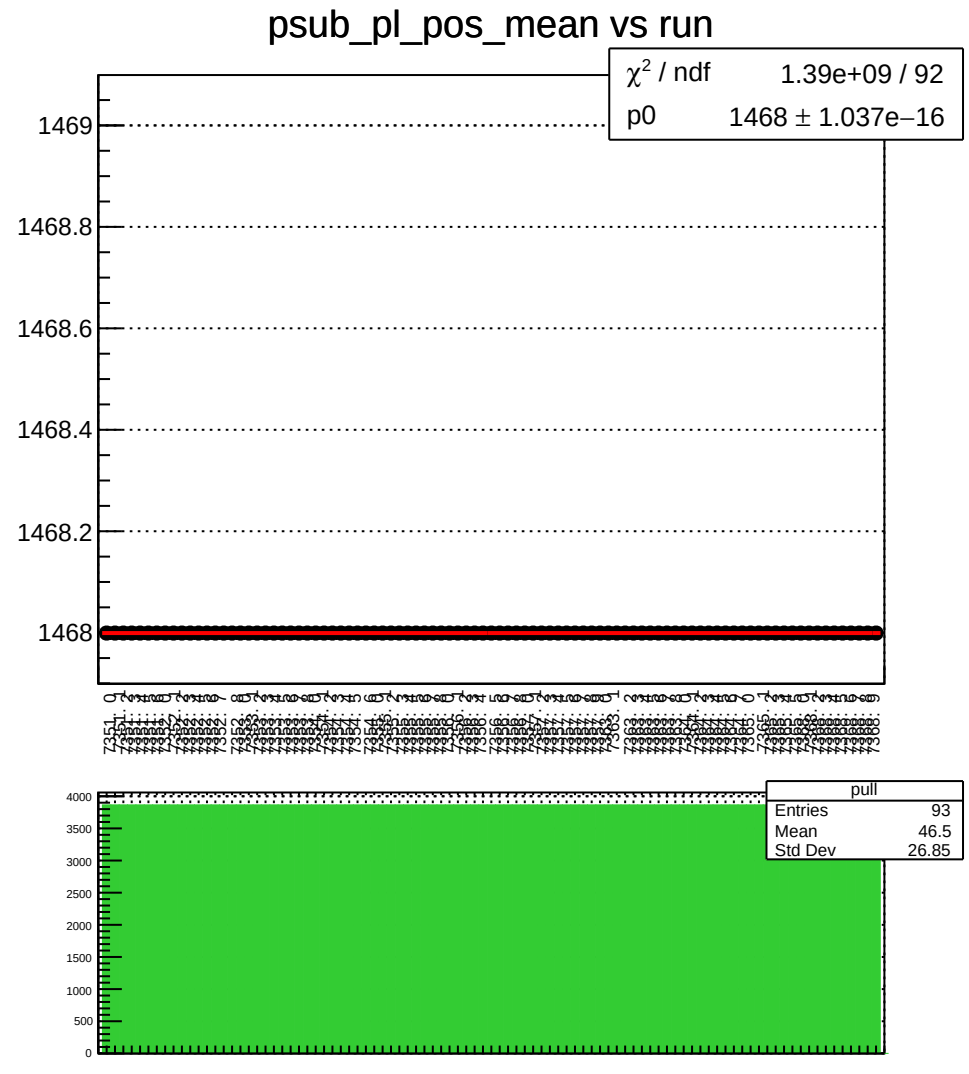

reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ² / ndf 91.7 / 92
p0 0.1515 ± 0.0065
pull
Entries 93
Mean −197.8
Std Dev 239.2

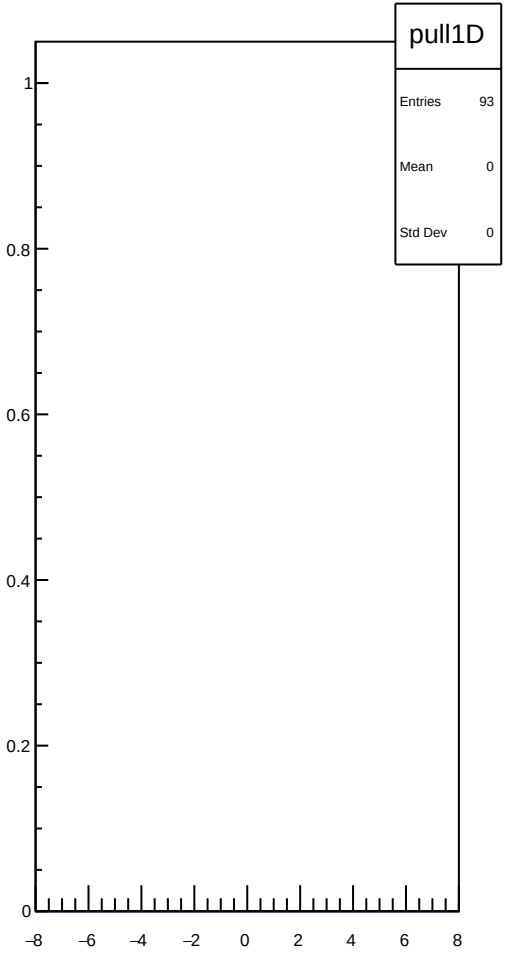

pull1D
Entries 93
Mean 0.03424
Std Dev 0.9924

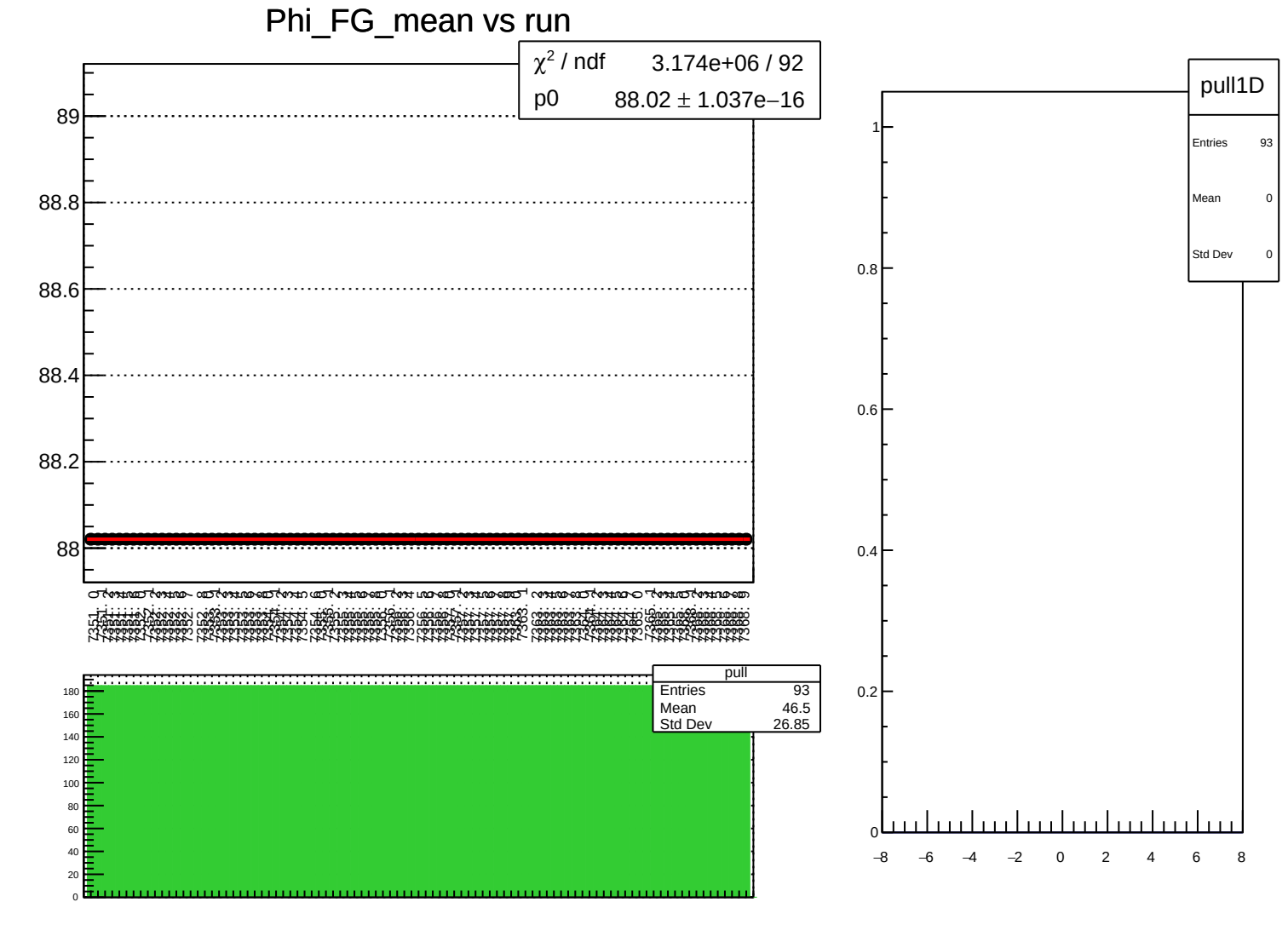

VWienAngle_mean vs run
χ² / ndf 3.681e+06 / 92
p0 −90.6 ± 1.037e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−50
−100
−150
−200

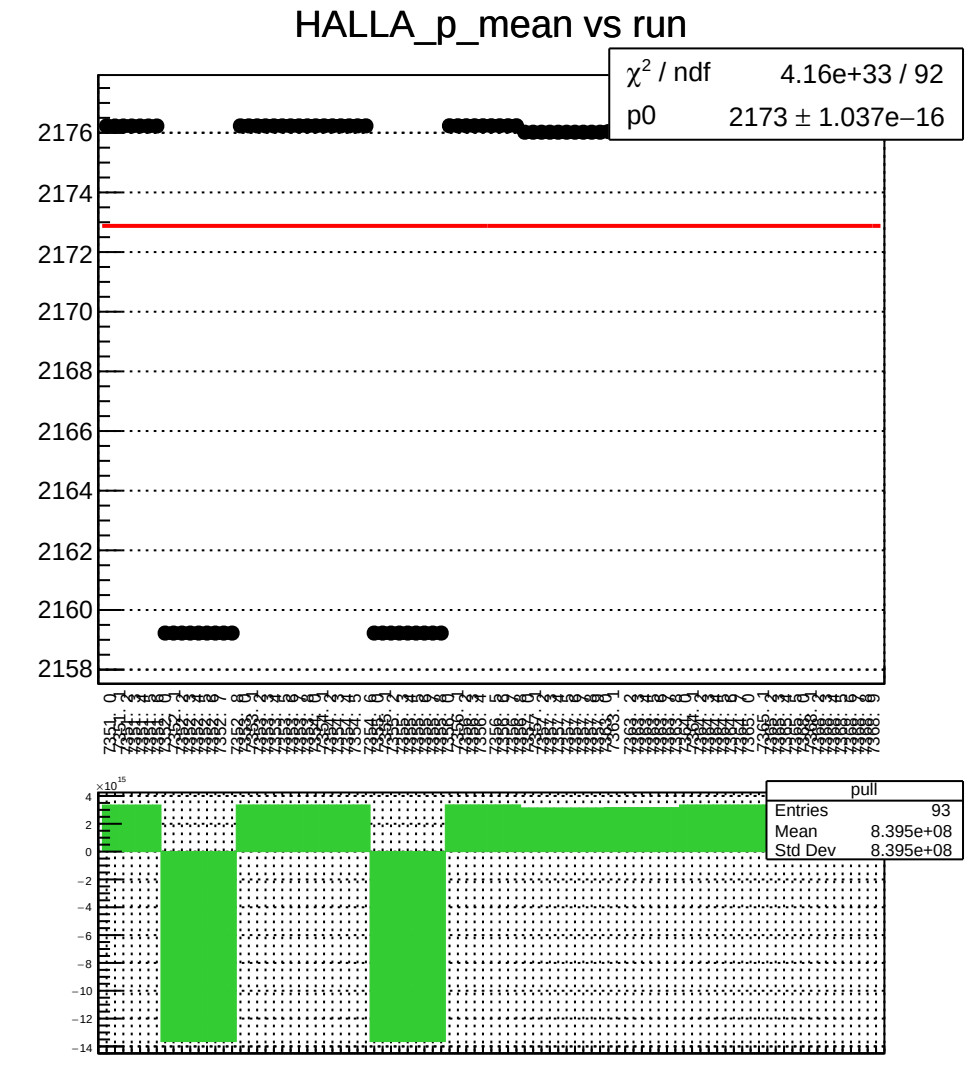

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

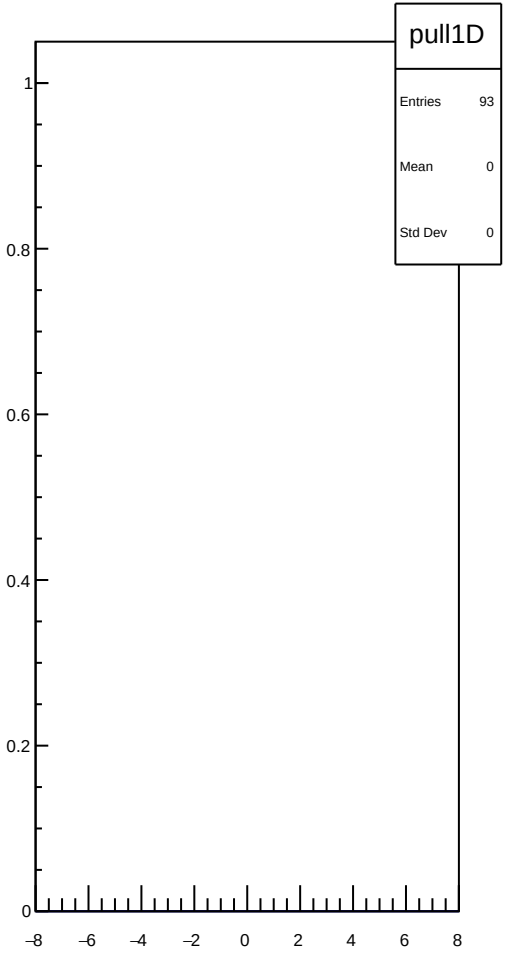

HWienAngle_mean vs run
χ² / ndf 3.005e+05 / 92
p0 −29.64 ± 1.037e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 93
Mean 46.5
Std Dev 26.85
0
−10
−20
−30
−40
−50
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

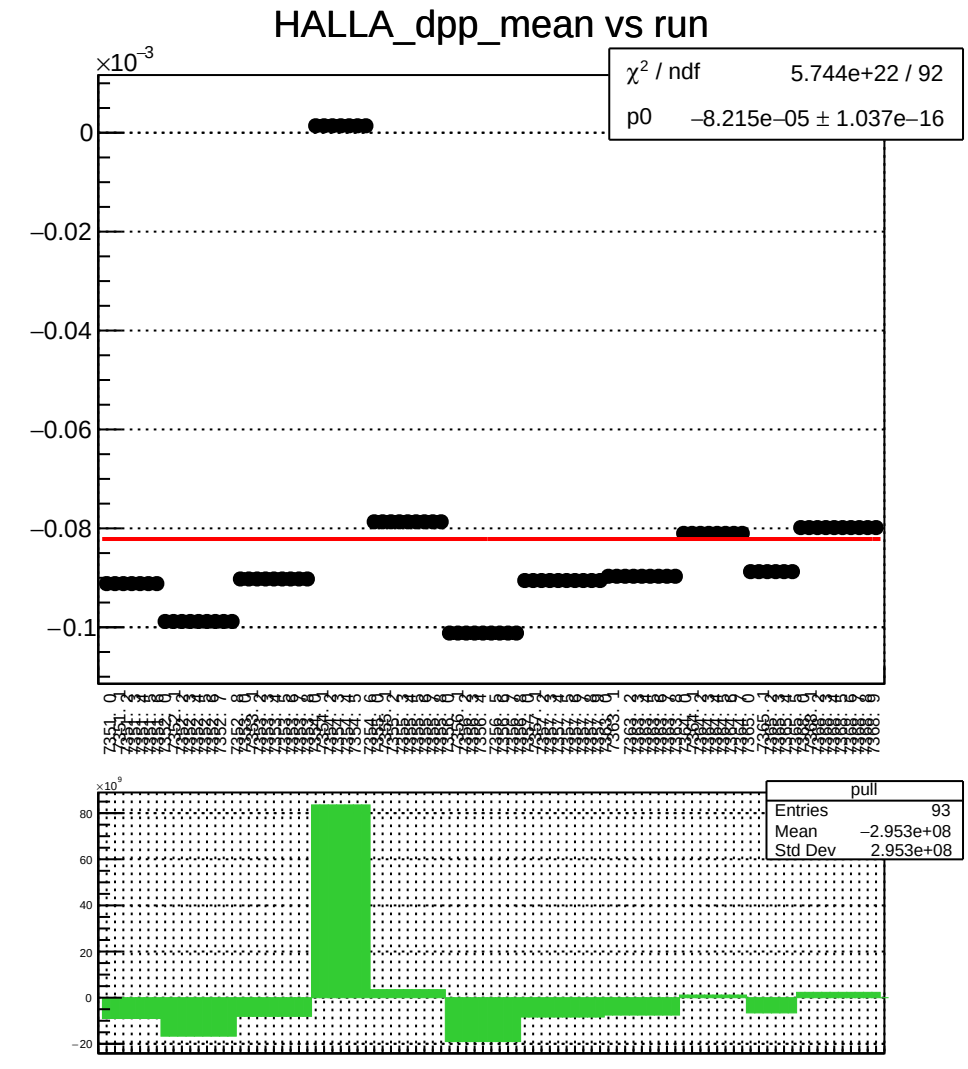

psub_pl_pos_mean vs run
χ² / ndf 1.39e+09 / 92
p0 1468 ± 1.037e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 93
Mean 46.5
Std Dev 26.85
4000
3500
3000
2500
2000
1500
1000
500
0

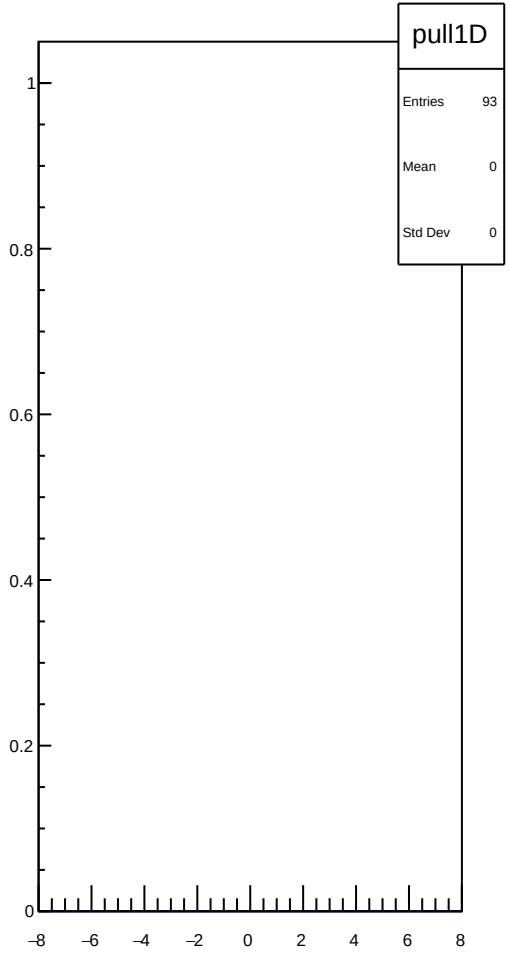

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

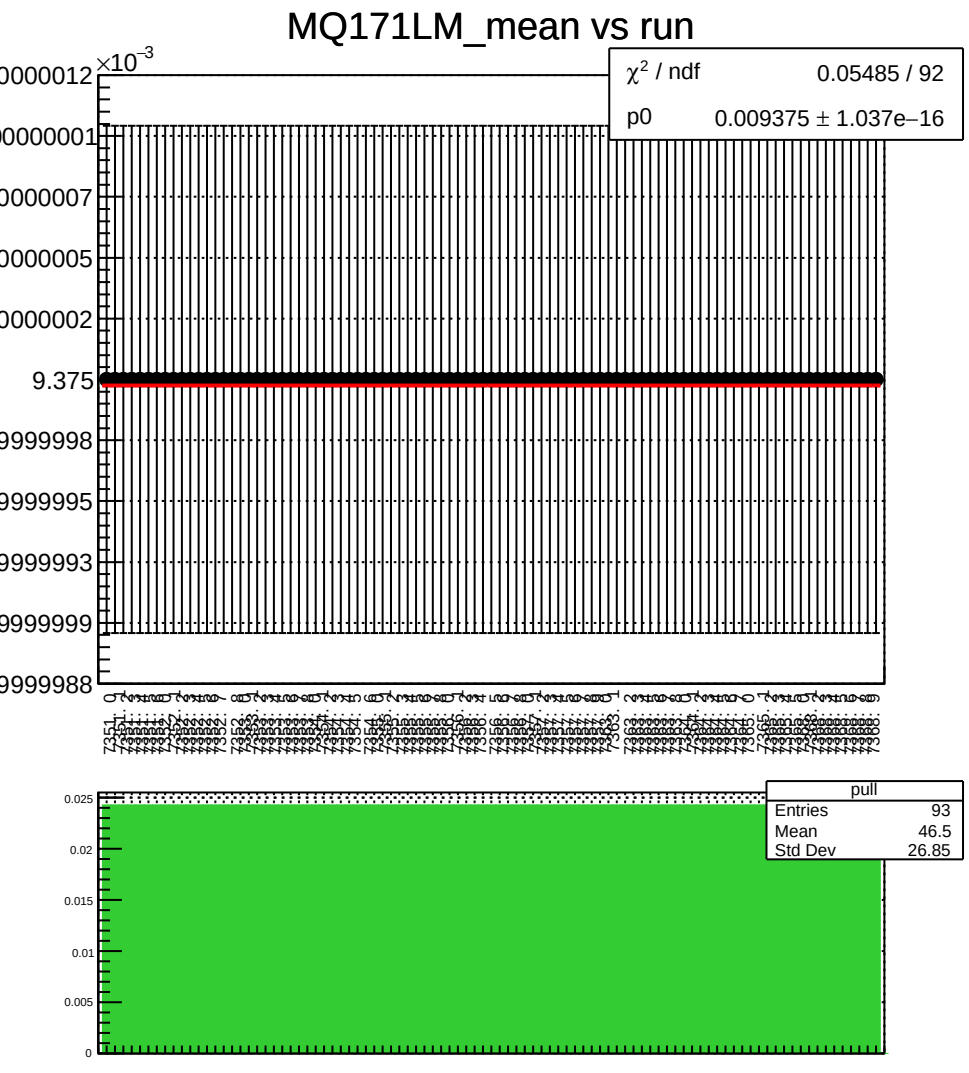

Phi_FG_mean vs run
χ² / ndf 3.174e+06 / 92
p0 88.02 ± 1.037e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 93
Mean 46.5
Std Dev 26.85
180
160
140
120
100
80
60
40
20
0
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

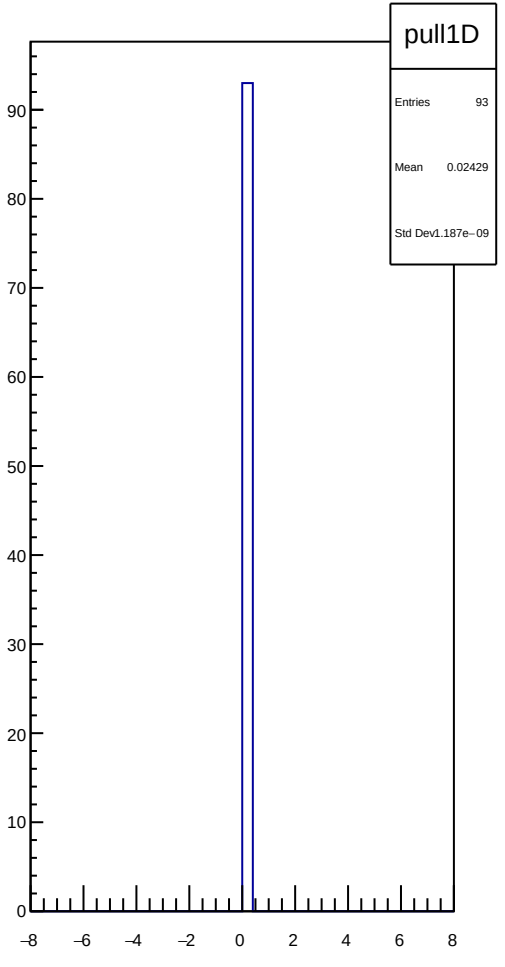

HALLA_p_mean vs run
χ² / ndf 4.16e+33 / 92
p0 2173 ± 1.037e−16
2176
2174
2172
2170
2168
2166
2164
2162
2160
2158
pull
Entries 93
Mean 8.395e+08
Std Dev 8.395e+08
×10¹⁵
4
2
0
−2
−4
−6
−8
−10
−12
−14

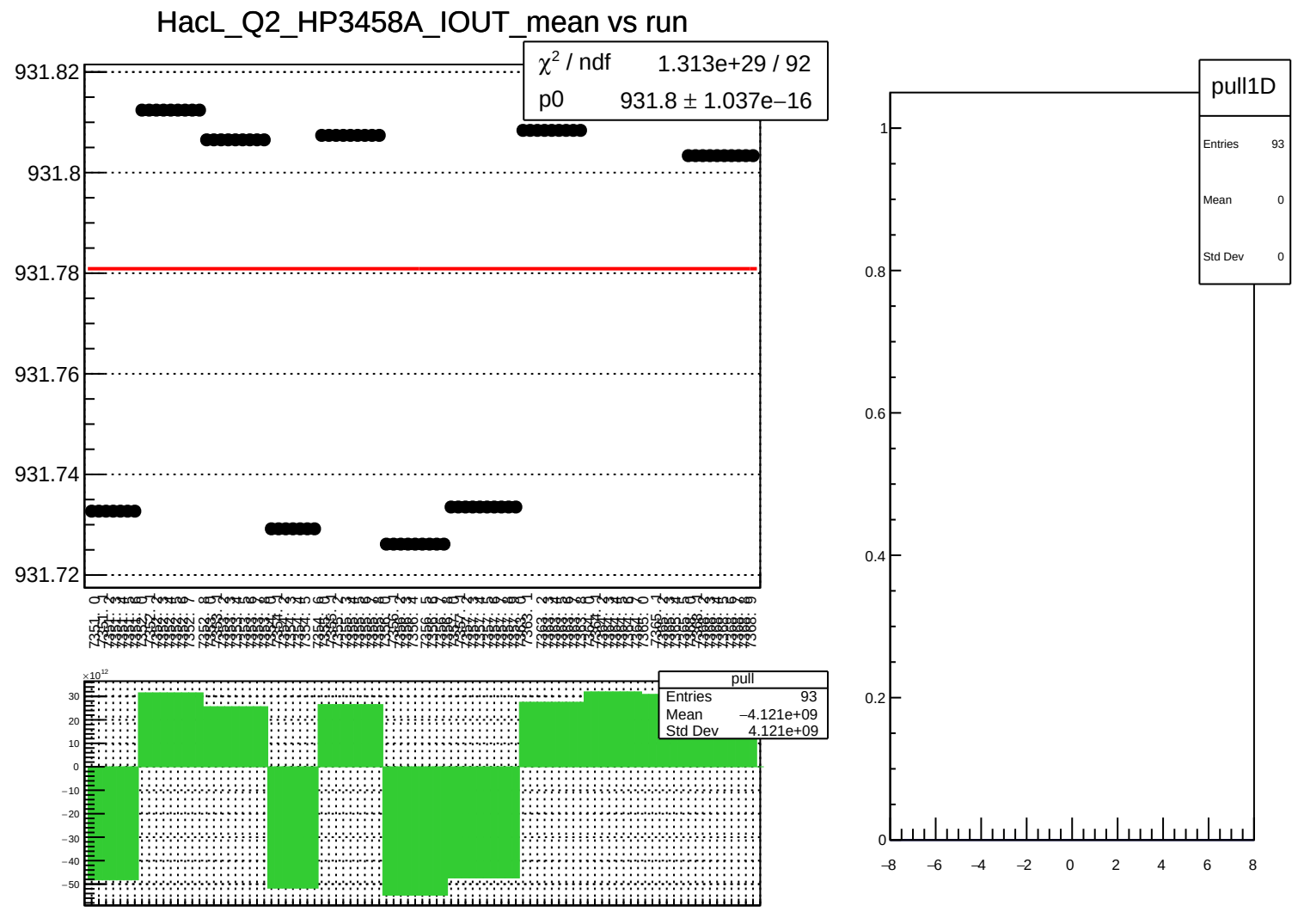

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

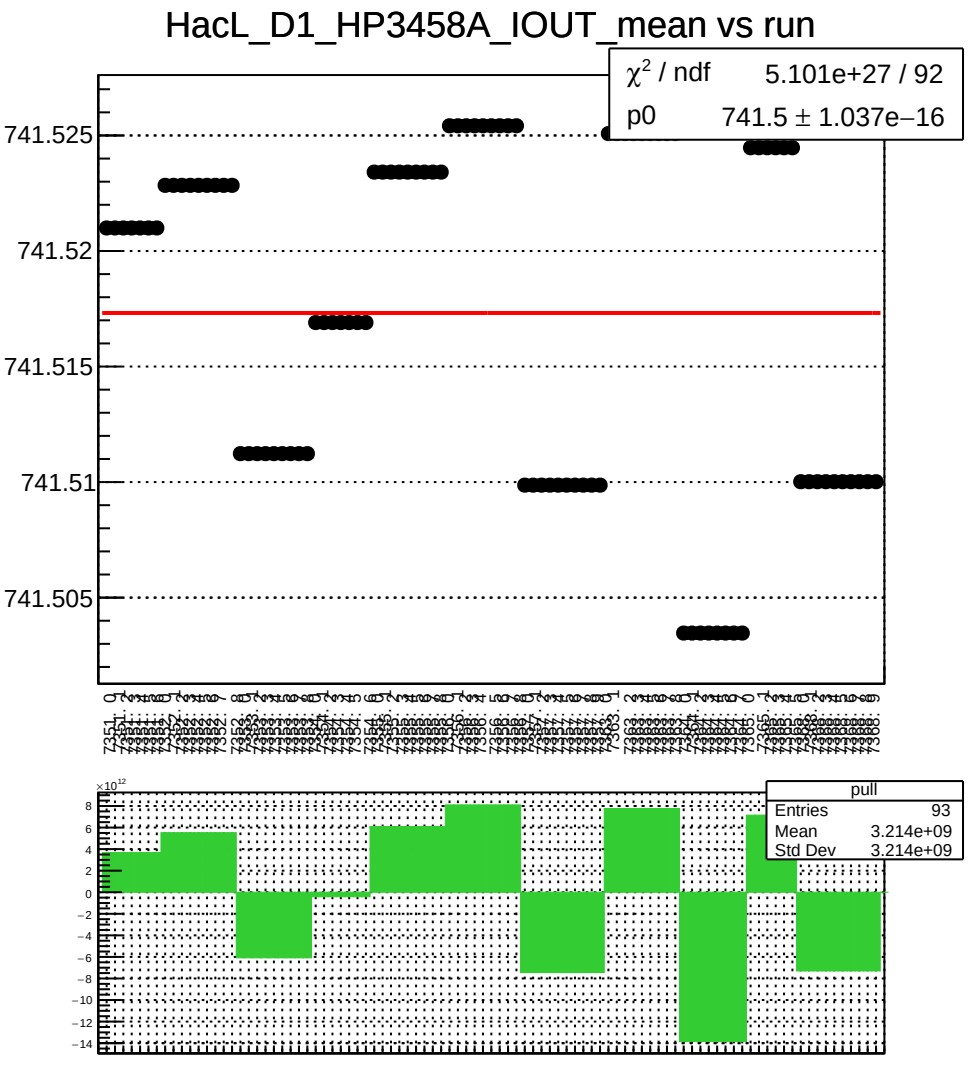

HALLA_dpp_mean vs run
×10⁻³
χ² / ndf 5.744e+22 / 92
p0 −8.215e−05 ± 1.037e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10⁹
pull
Entries 93
Mean −2.953e+08
Std Dev 2.953e+08
80
60
40
20
0
−20

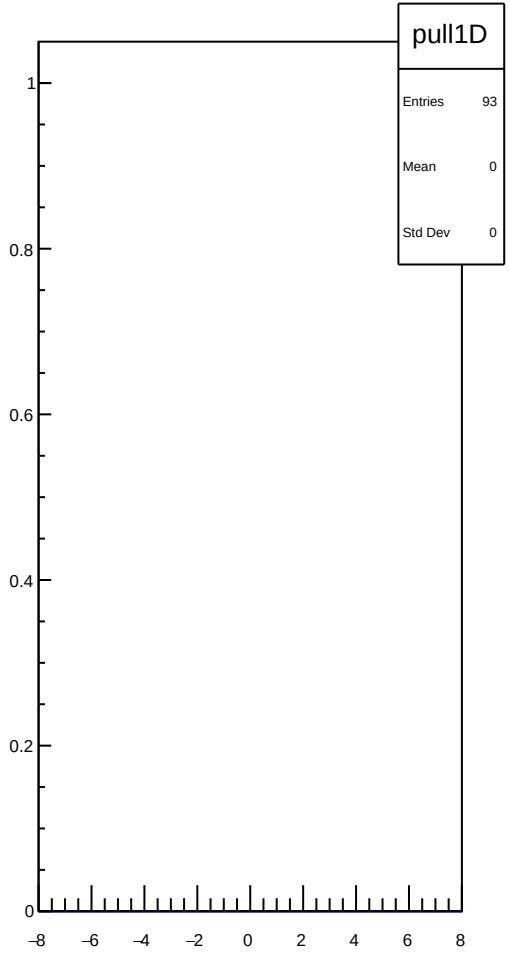

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

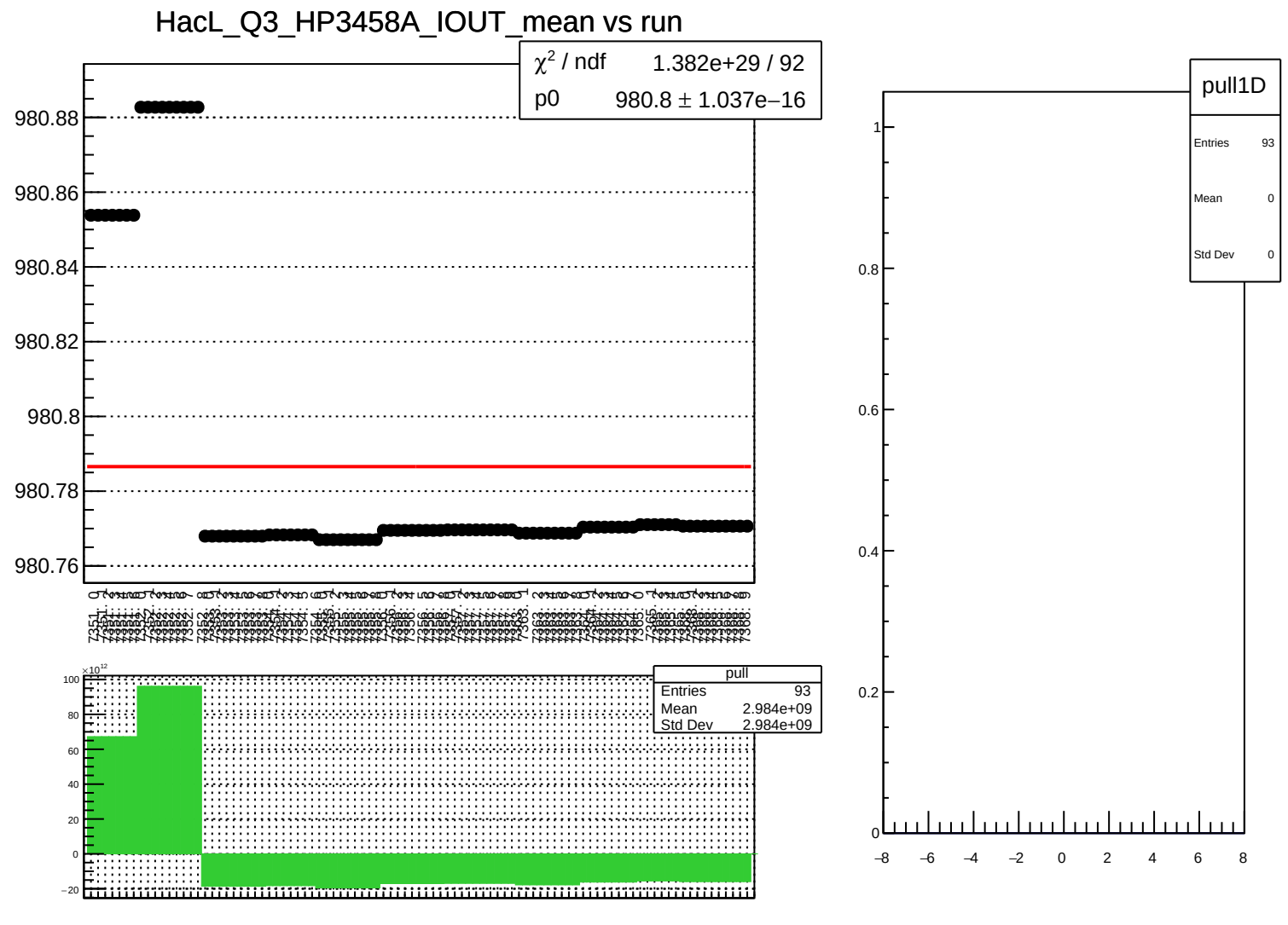

MQ171LM_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

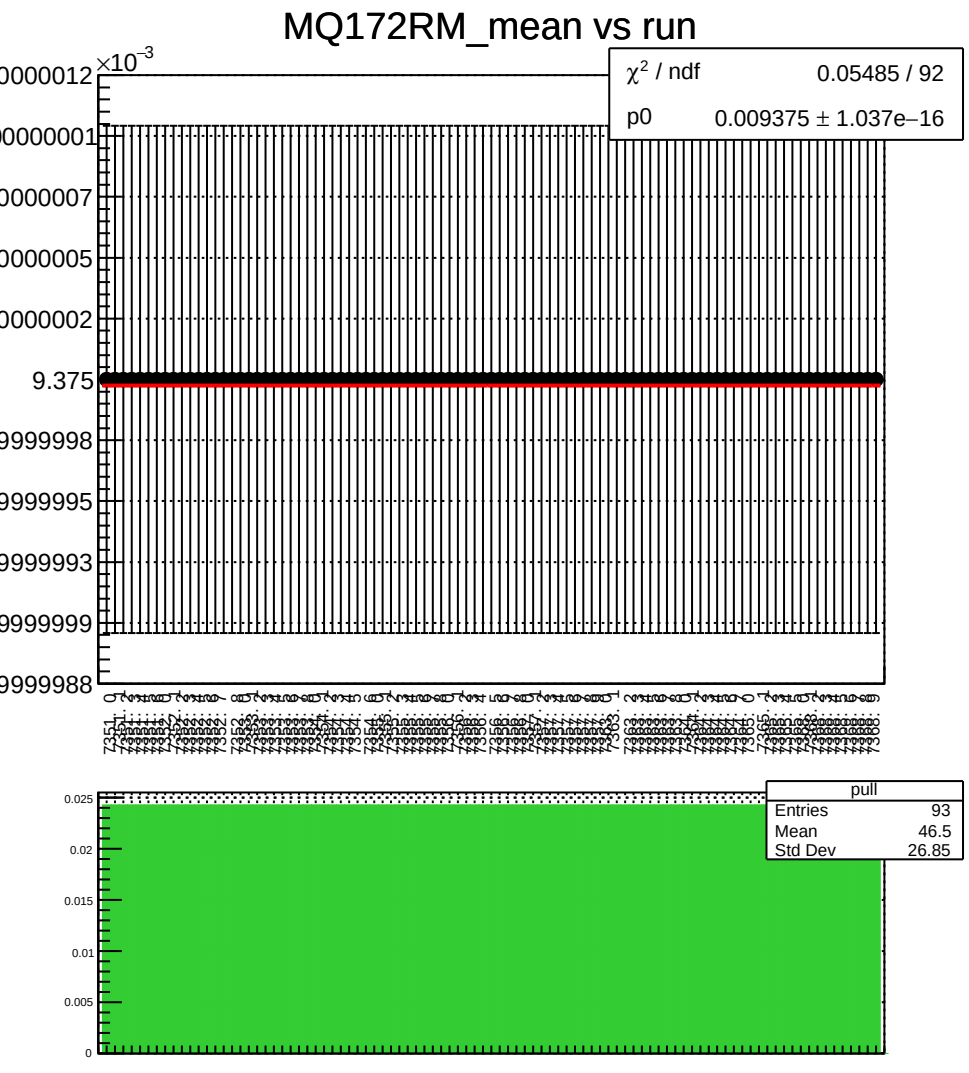

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

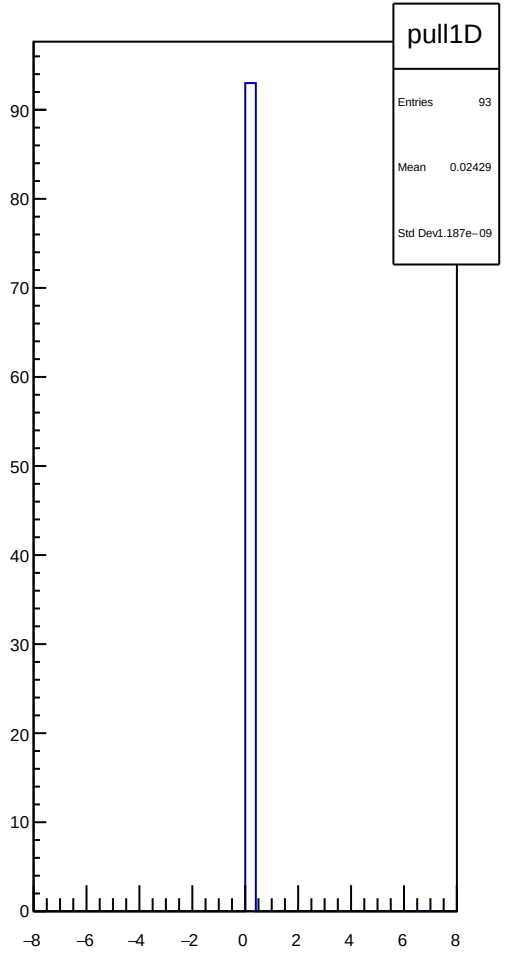

HacL_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.313e+29 / 92
p0 931.8 ± 1.037e−16
931.82
931.8
931.78
931.76
931.74
931.72
pull
Entries 93
Mean −4.121e+09
Std Dev 4.121e+09
×10¹²
30
20
10
0
−10
−20
−30
−40
−50
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

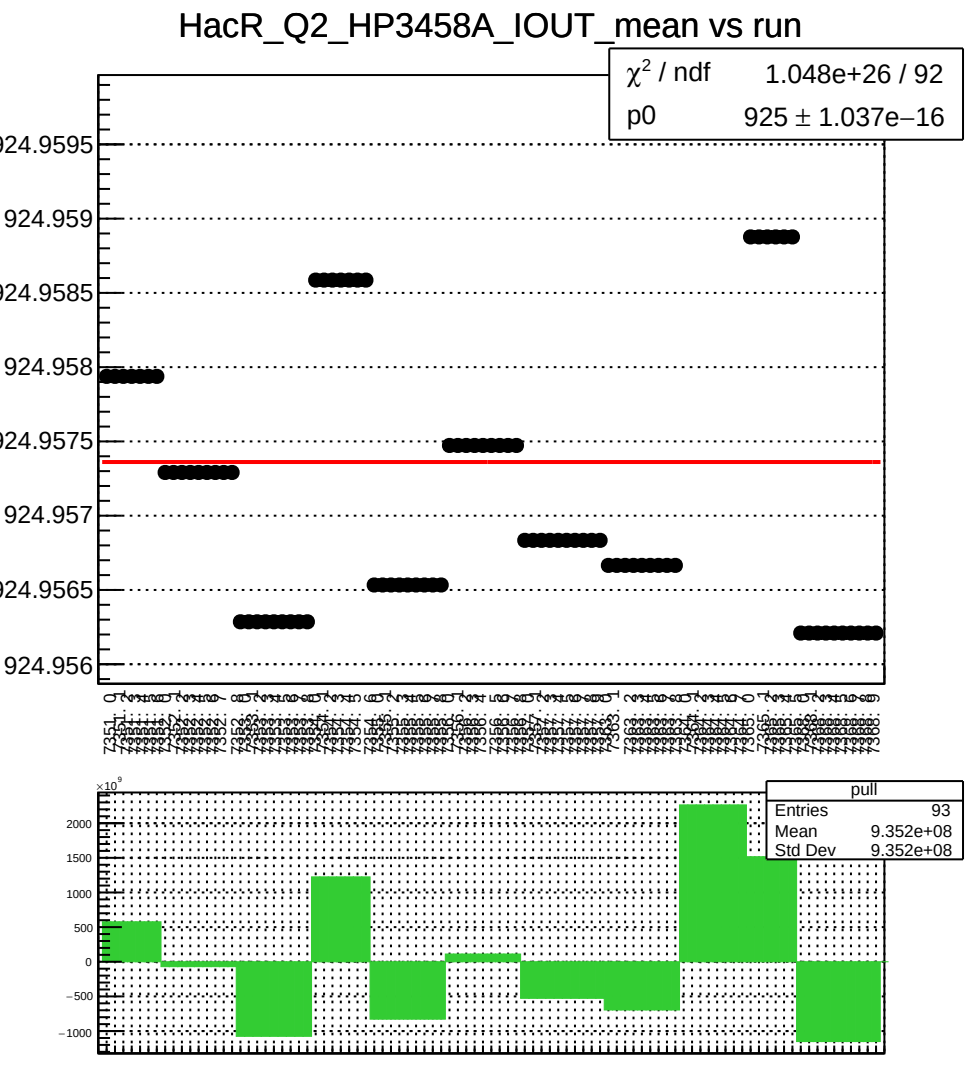

HacL_D1_HP3458A_IOUT_mean vs run
χ² / ndf 5.101e+27 / 92
p0 741.5 ± 1.037e−16
741.525
741.52
741.515
741.51
741.505
pull
Entries 93
Mean 3.214e+09
Std Dev 3.214e+09
×10¹²

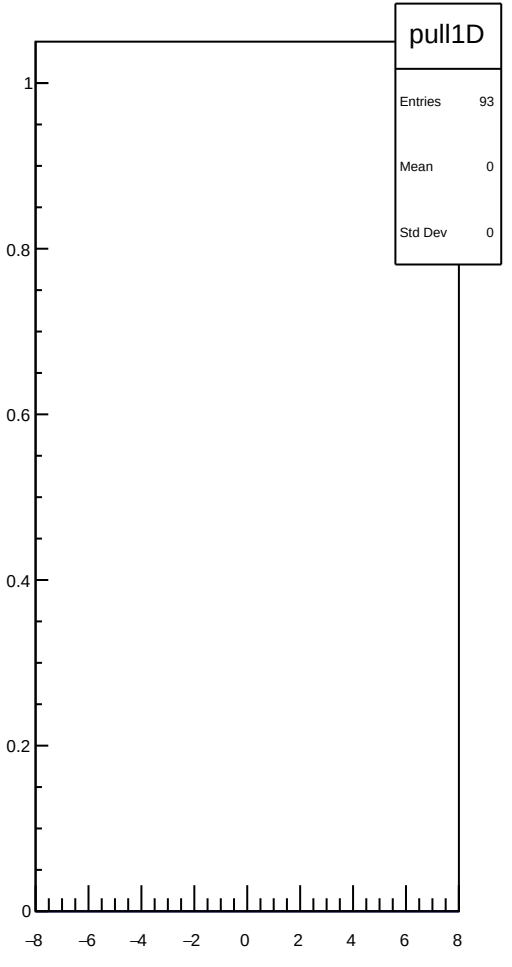

pull1D
Entries 93
Mean 0
Std Dev 0

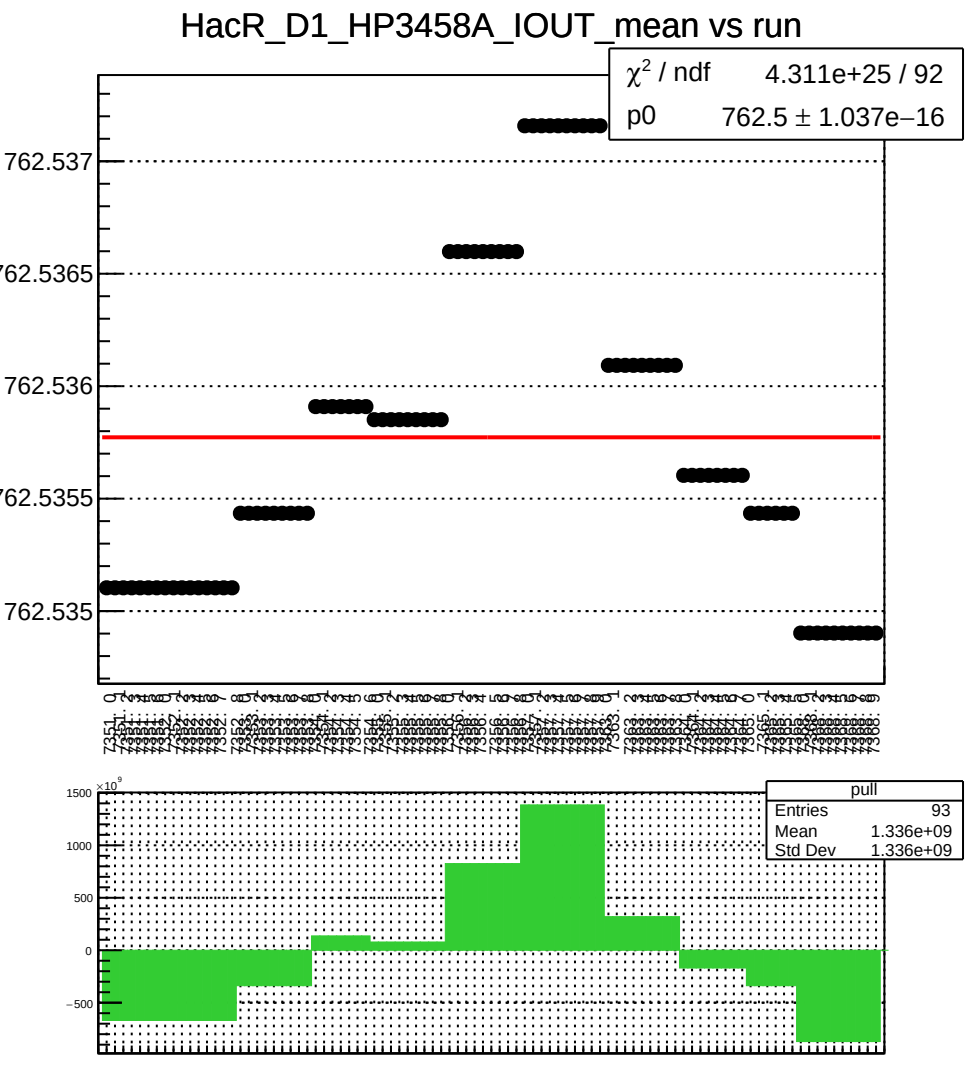

HacL_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 1.382e+29 / 92
p0 980.8 ± 1.037e−16
980.88
980.86
980.84
980.82
980.8
980.78
980.76
pull
Entries 93
Mean 2.984e+09
Std Dev 2.984e+09
×10¹²
100
80
60
40
20
0
−20
pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

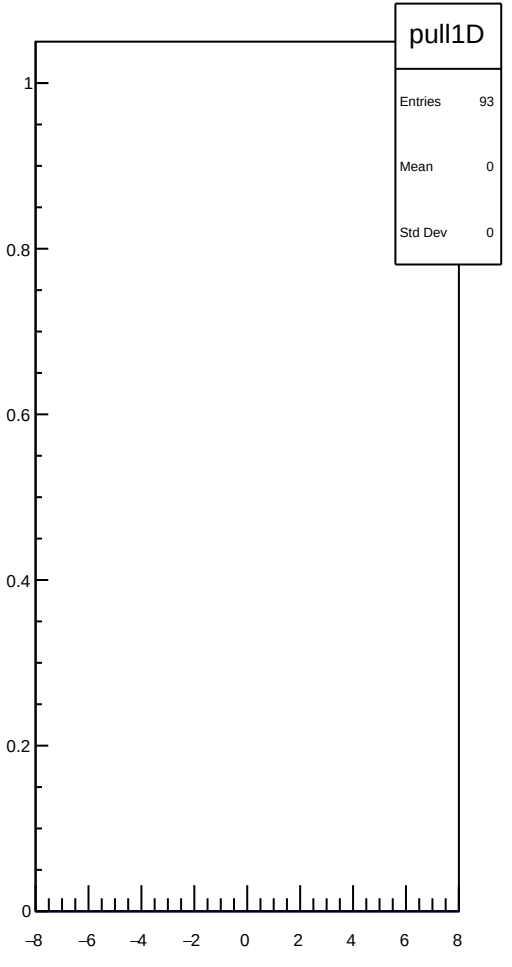

MQ172RM_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85

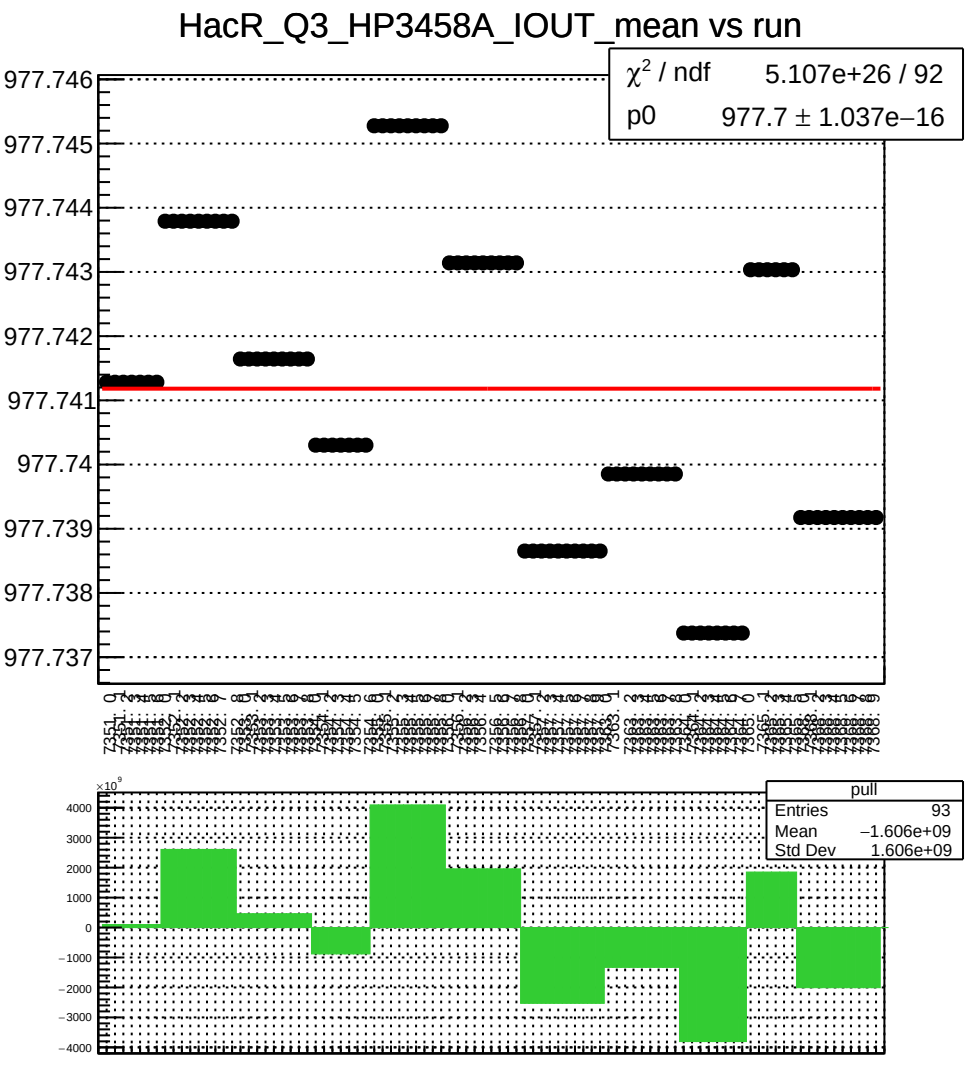

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

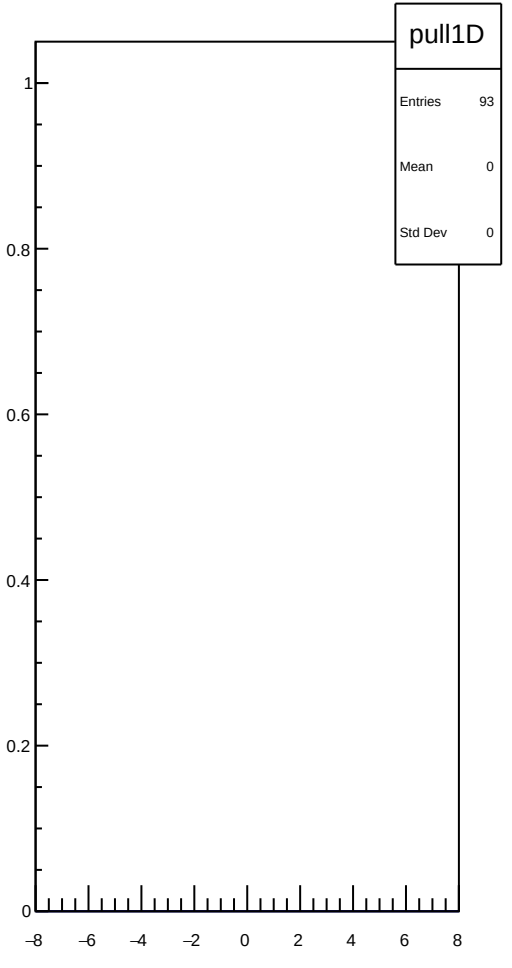

HacR_Q2_HP3458A_IOUT_mean vs run
χ² / ndf 1.048e+26 / 92
p0 925 ± 1.037e−16
924.9595
924.959
924.9585
924.958
924.9575
924.957
924.9565
924.956
pull
Entries 93
Mean 9.352e+08
Std Dev 9.352e+08
×10⁹
2000
1500
1000
500
0
−500
−1000

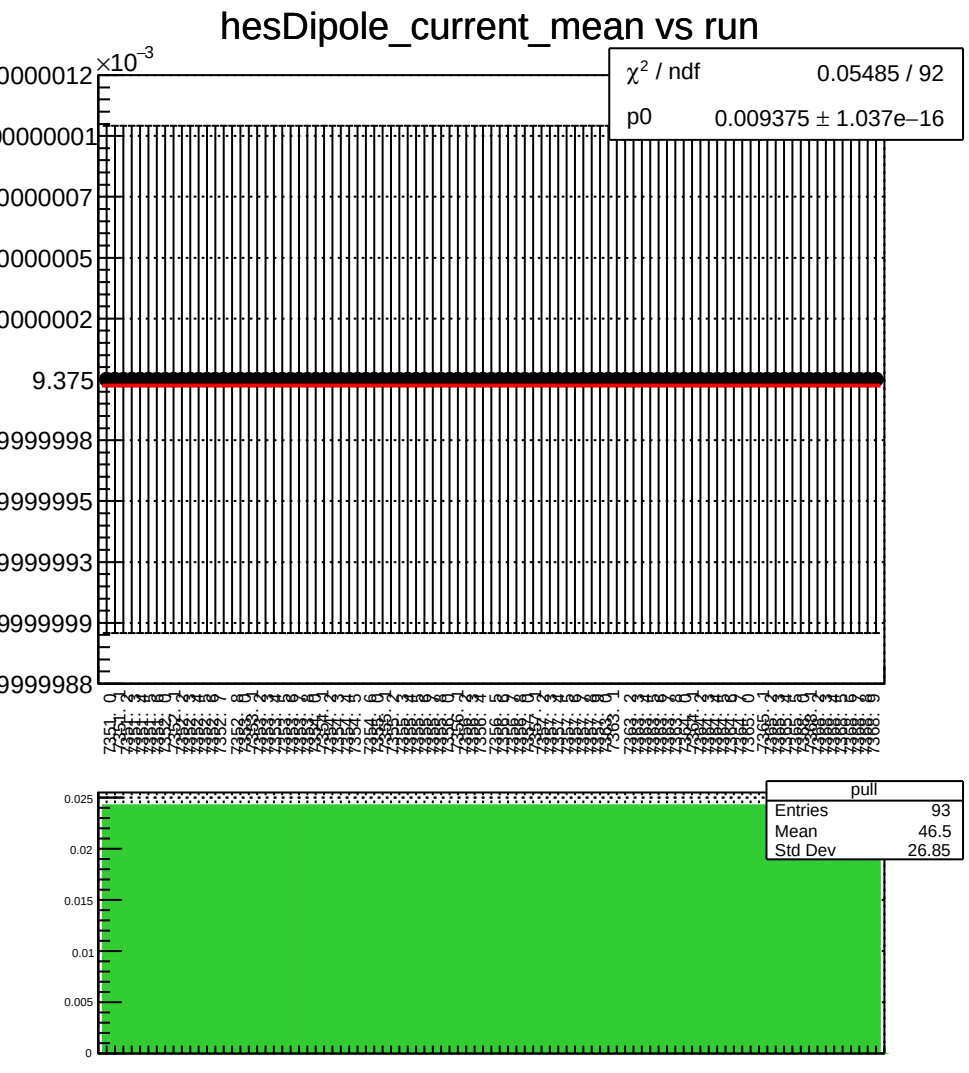

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

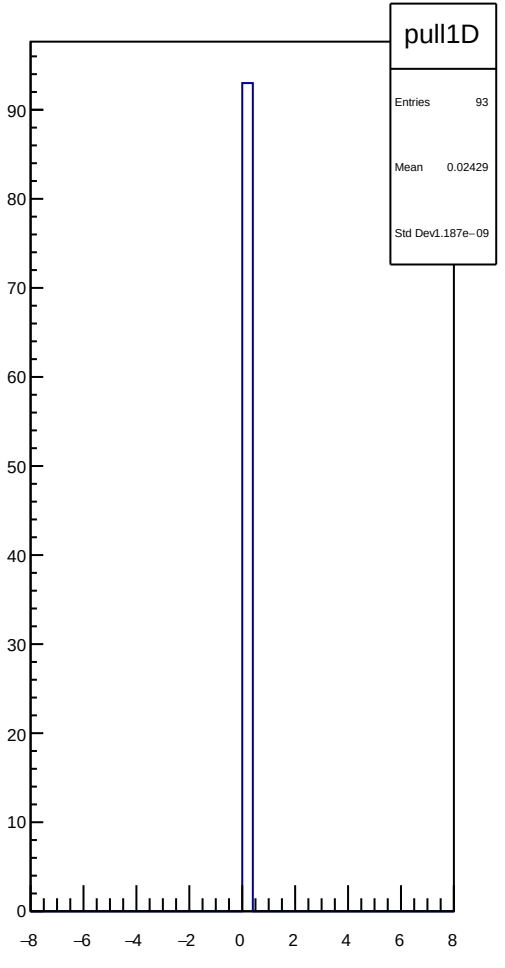

HacR_D1_HP3458A_IOUT_mean vs run
χ² / ndf 4.311e+25 / 92
p0 762.5 ± 1.037e−16
762.537
762.5365
762.536
762.5355
762.535
pull
Entries 93
Mean 1.336e+09
Std Dev 1.336e+09
×10⁹
1500
1000
500
0
−500

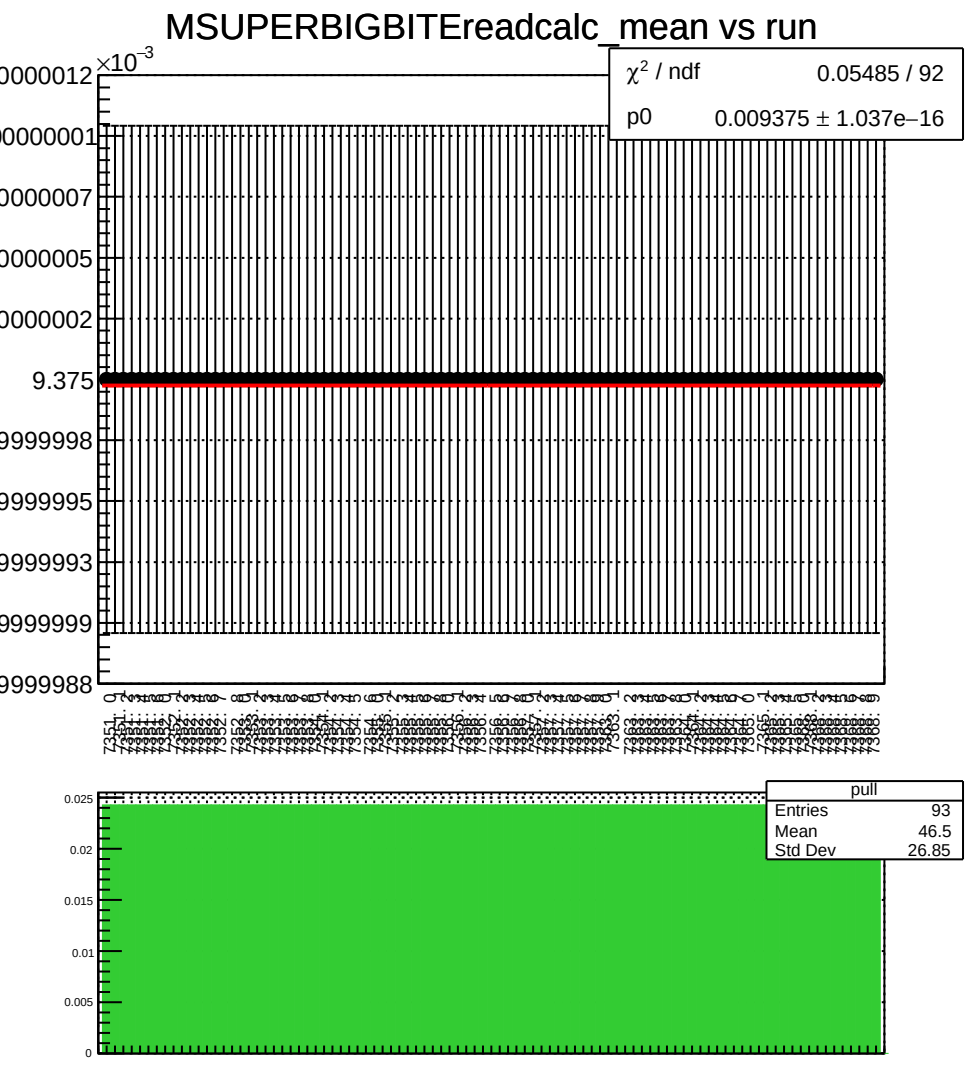

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

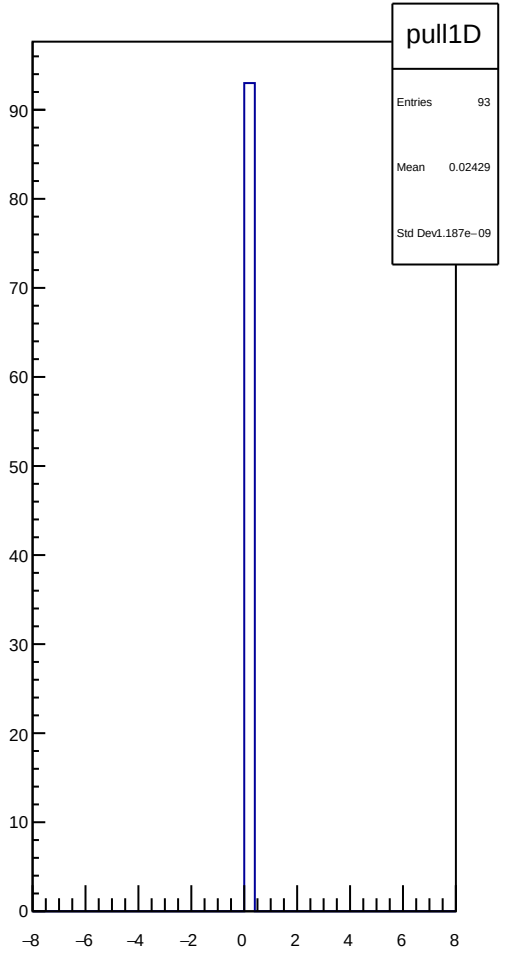

HacR_Q3_HP3458A_IOUT_mean vs run
χ² / ndf 5.107e+26 / 92
p0 977.7 ± 1.037e−16
977.746
977.745
977.744
977.743
977.742
977.741
977.74
977.739
977.738
977.737
pull
Entries 93
Mean −1.606e+09
Std Dev 1.606e+09
×10⁹
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000

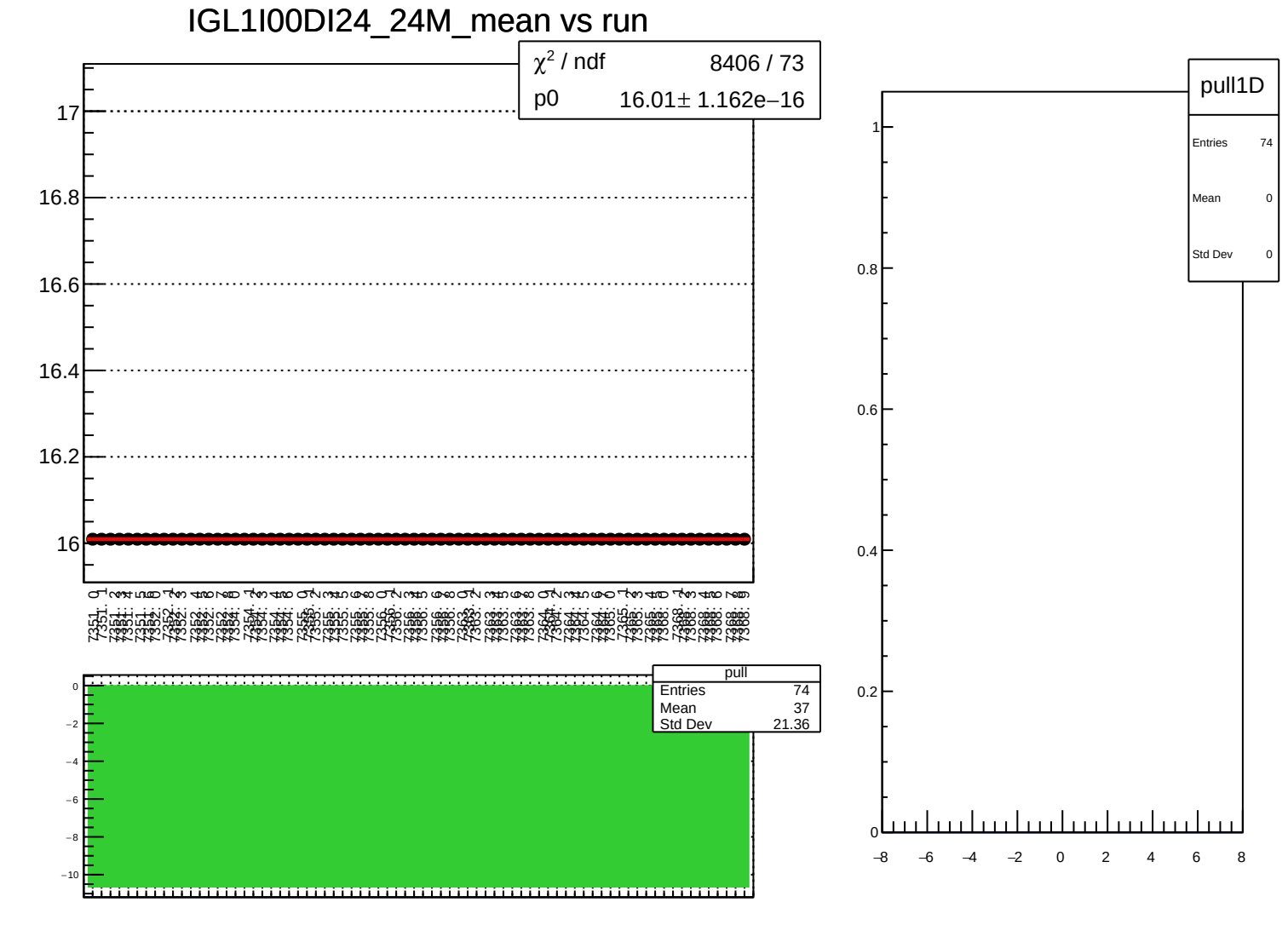

pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

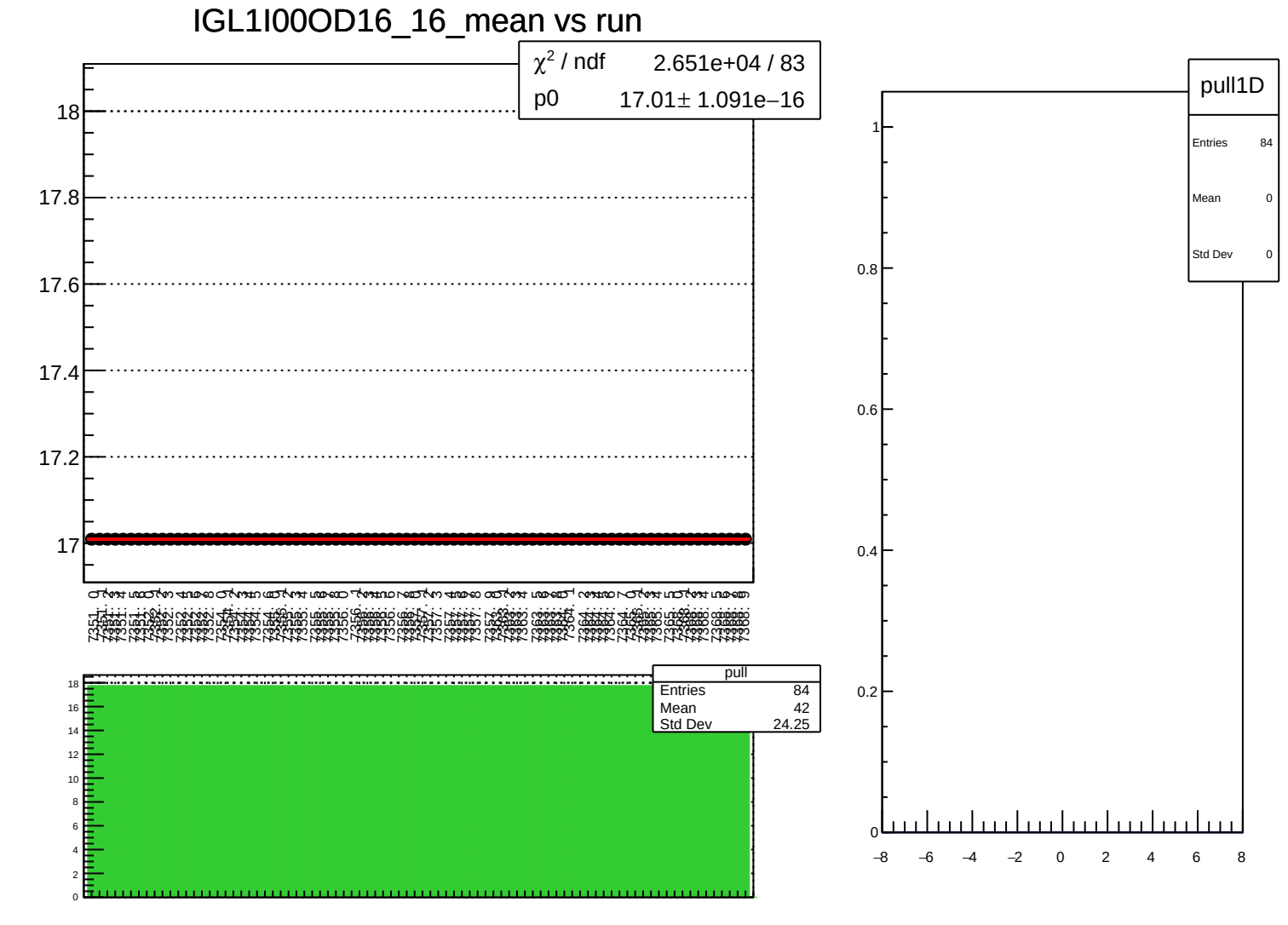

hesDipole_current_mean vs run
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
×10⁻³
pull
Entries 93
Mean 46.5
Std Dev 26.85

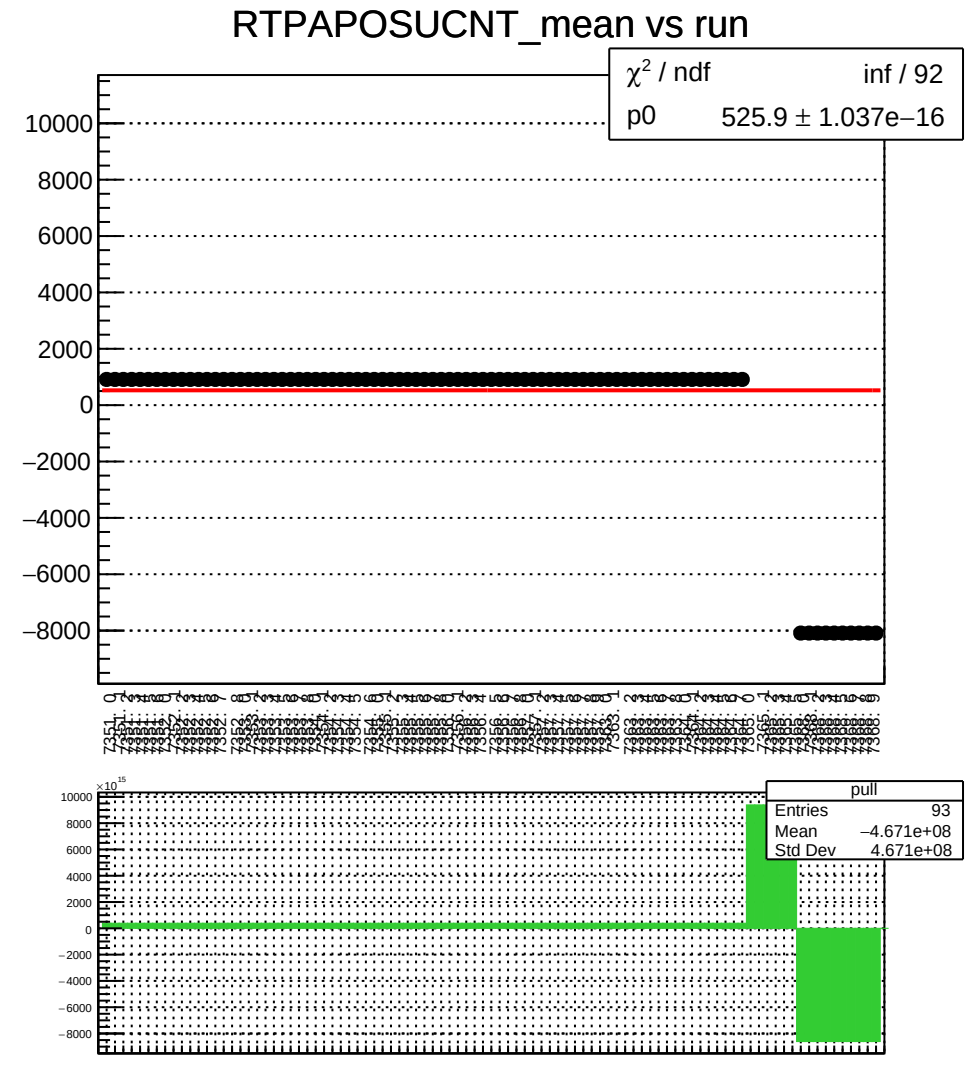

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

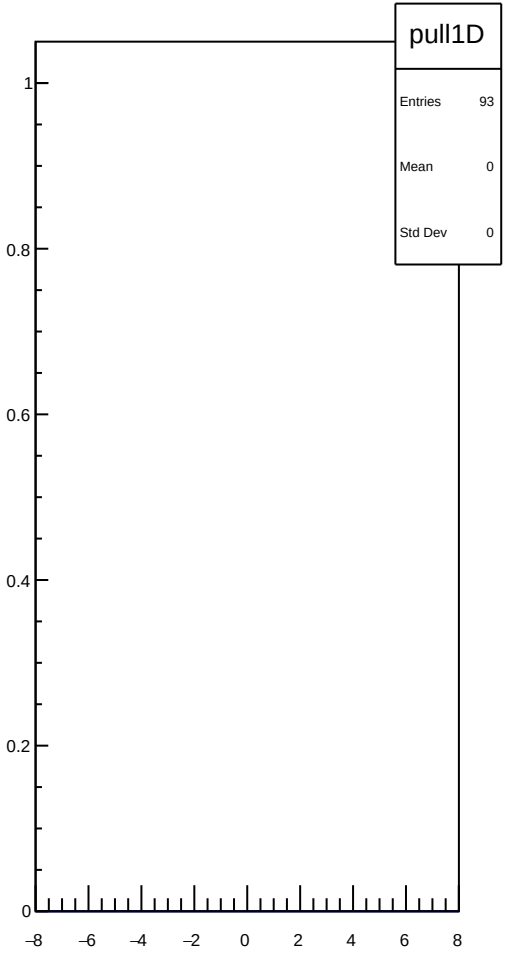

MSUPERBIGBITEreadcalc_mean vs run
×10⁻³
χ² / ndf 0.05485 / 92
p0 0.009375 ± 1.037e−16
9.375
pull
Entries 93
Mean 46.5
Std Dev 26.85

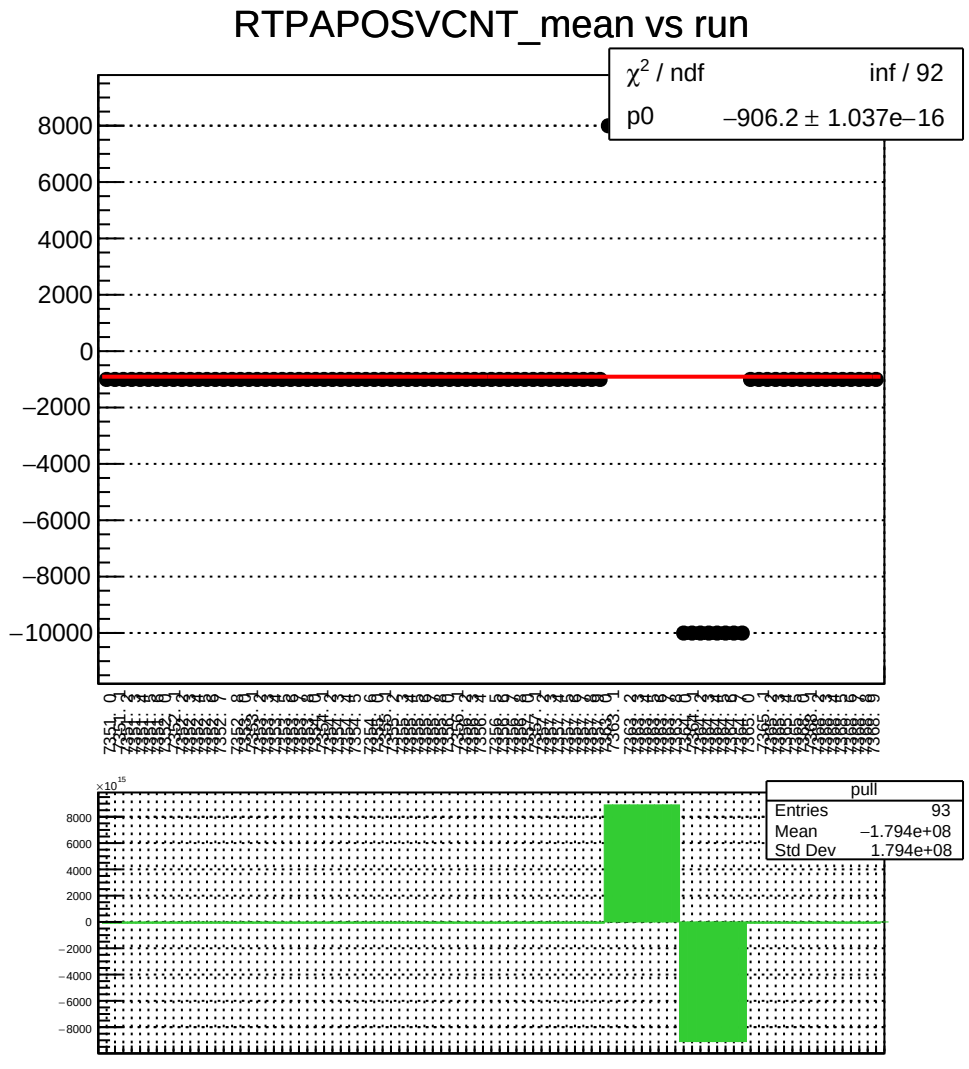

pull1D
Entries 93
Mean 0.02429
Std Dev1.187e−09

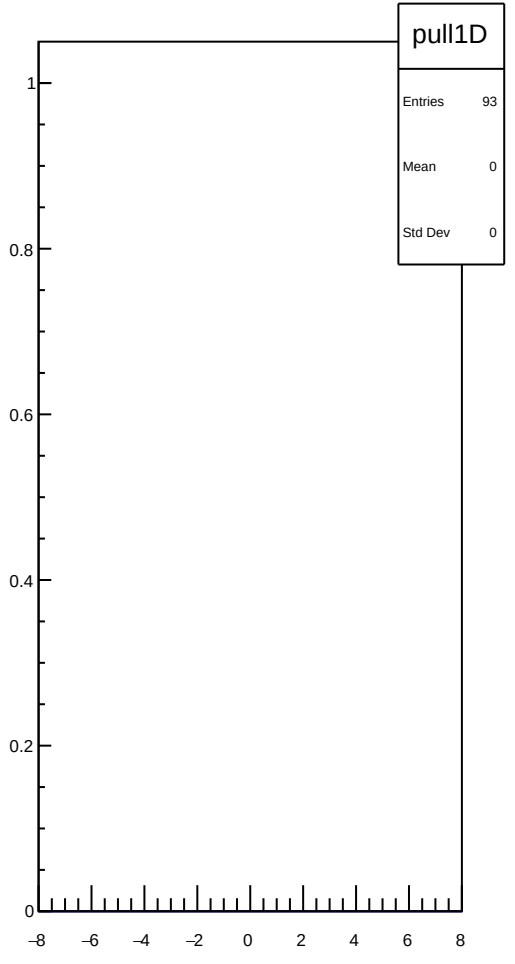

IGL1I00DI24_24M_mean vs run
χ² / ndf 8406 / 73
p0 16.01± 1.162e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


IGL1I00OD16_16_mean vs run
χ² / ndf 2.651e+04 / 83
p0 17.01± 1.091e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 84
Mean 42
Std Dev 24.25
pull1D
Entries 84
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSUCNT_mean vs run
χ² / ndf inf / 92
p0 525.9 ± 1.037e−16
10000
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 93
Mean −4.671e+08
Std Dev 4.671e+08


pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ² / ndf inf / 92
p0 −906.2 ± 1.037e−16
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
−10000
×10¹⁵
pull
Entries 93
Mean −1.794e+08
Std Dev 1.794e+08


pull1D
Entries 93
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8