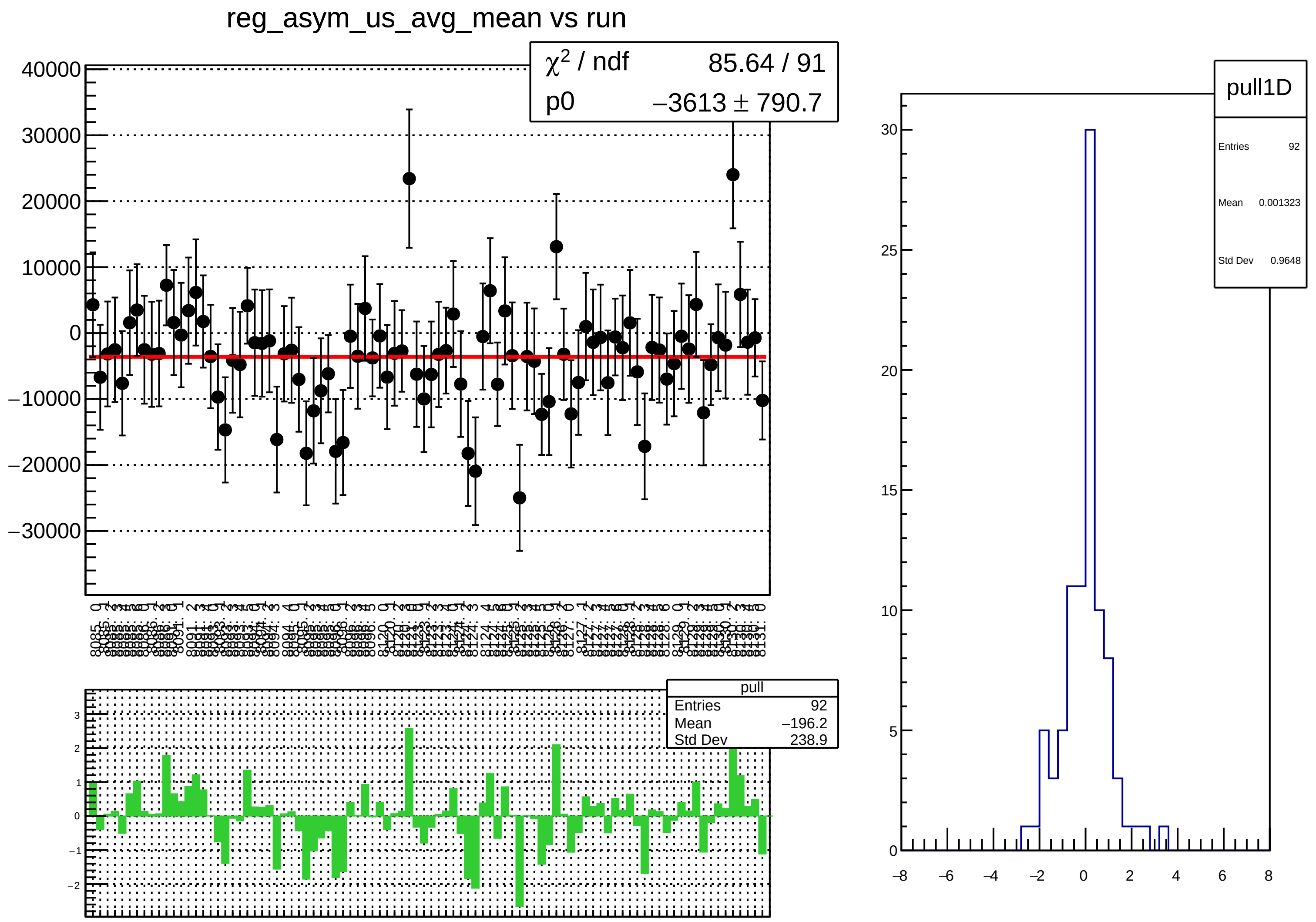
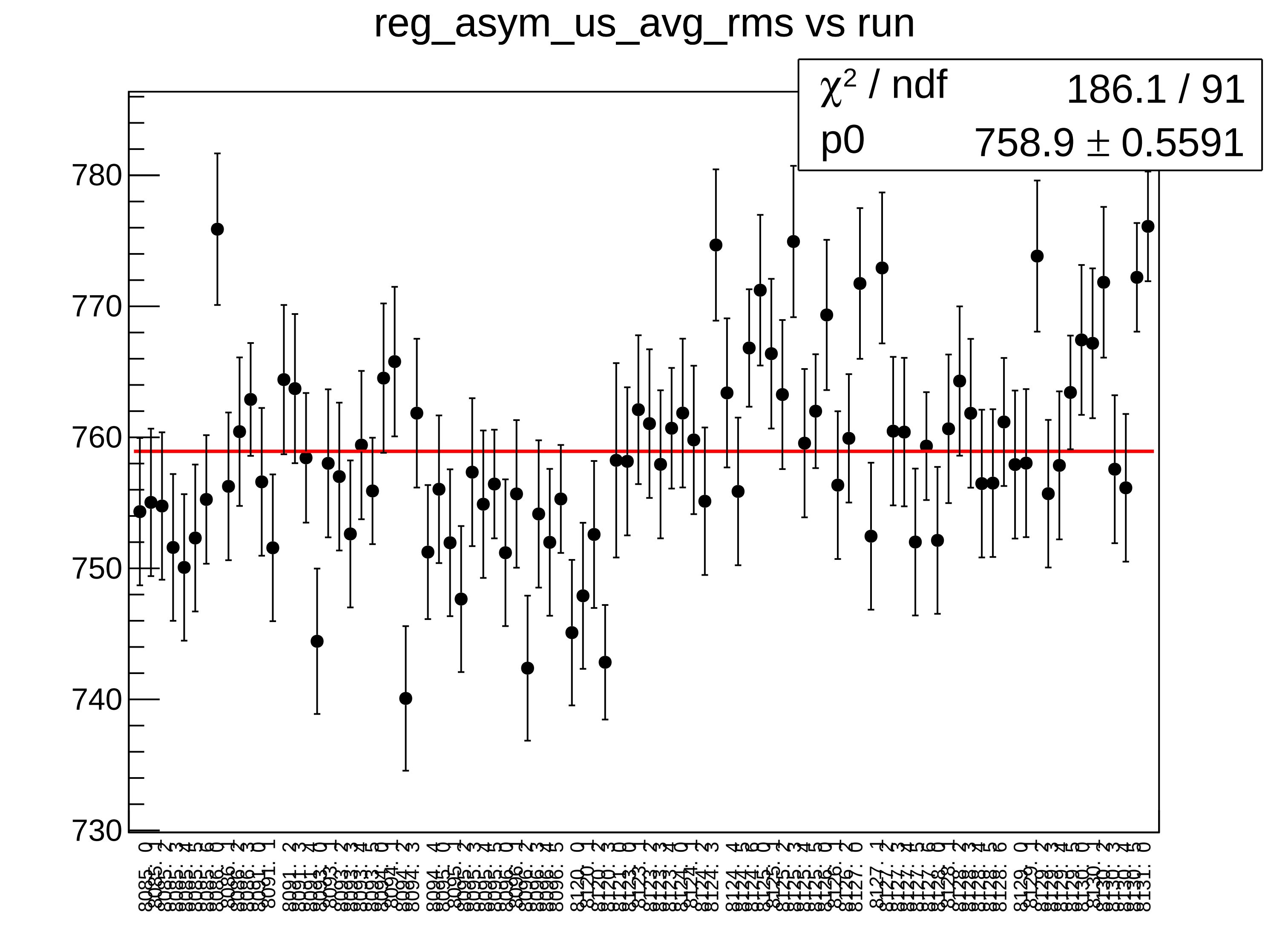
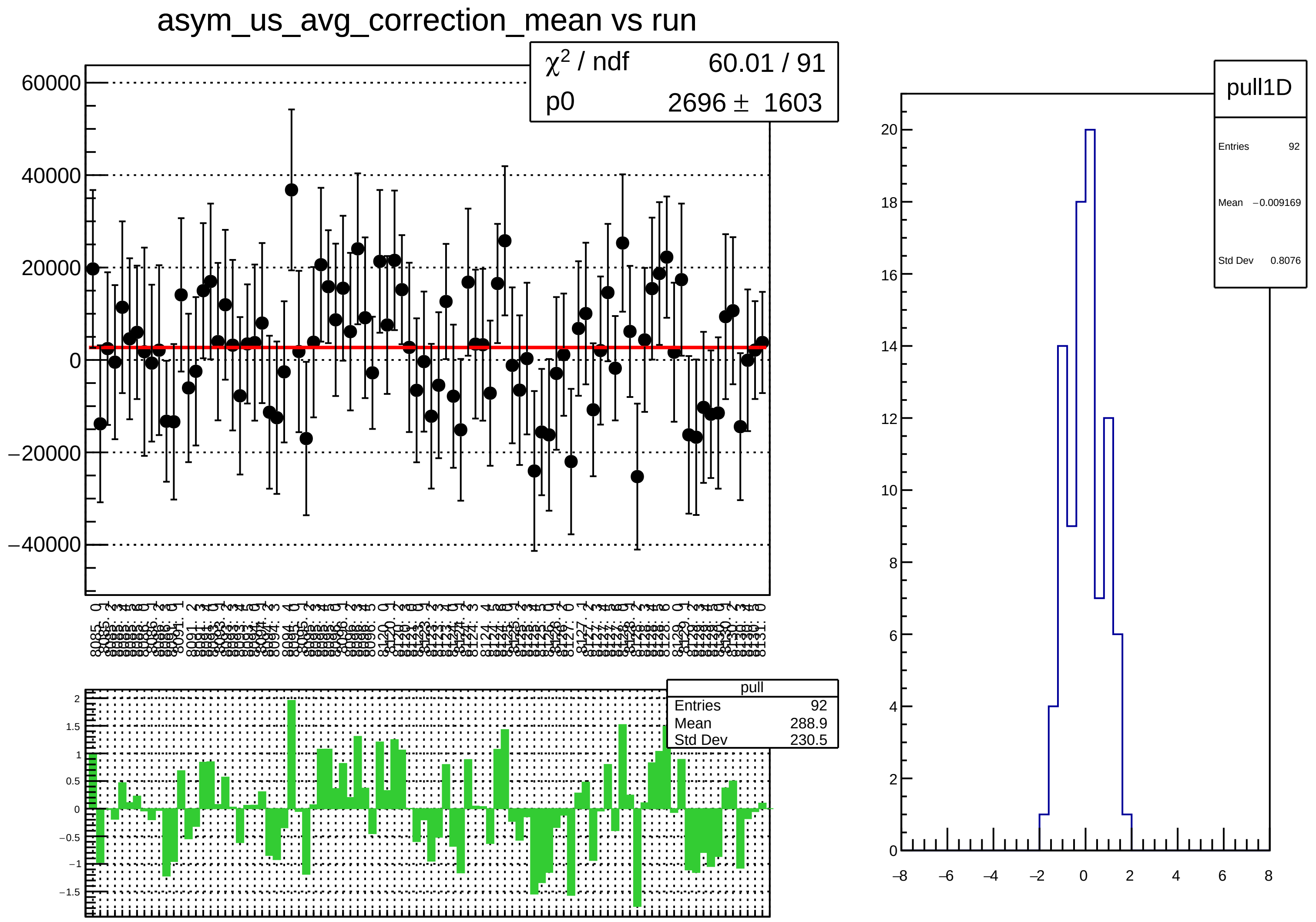


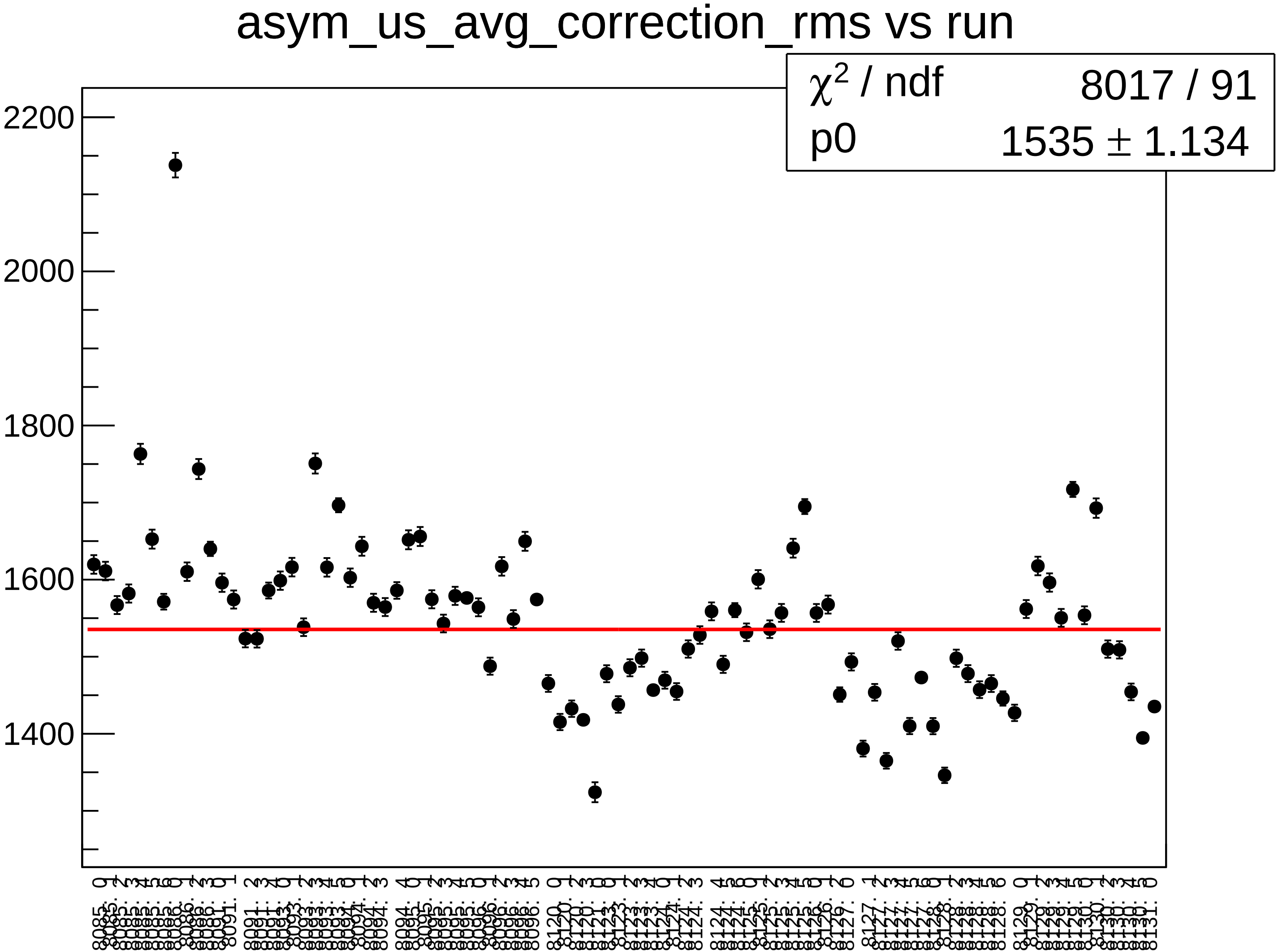
reg_asym_us_avg_mean vs run
χ^2 / ndf 85.64 / 91
p0 −3613 ± 790.7
pull
Entries 92
Mean −196.2
Std Dev 238.9
pull1D
Entries 92
Mean 0.001323
Std Dev 0.9648

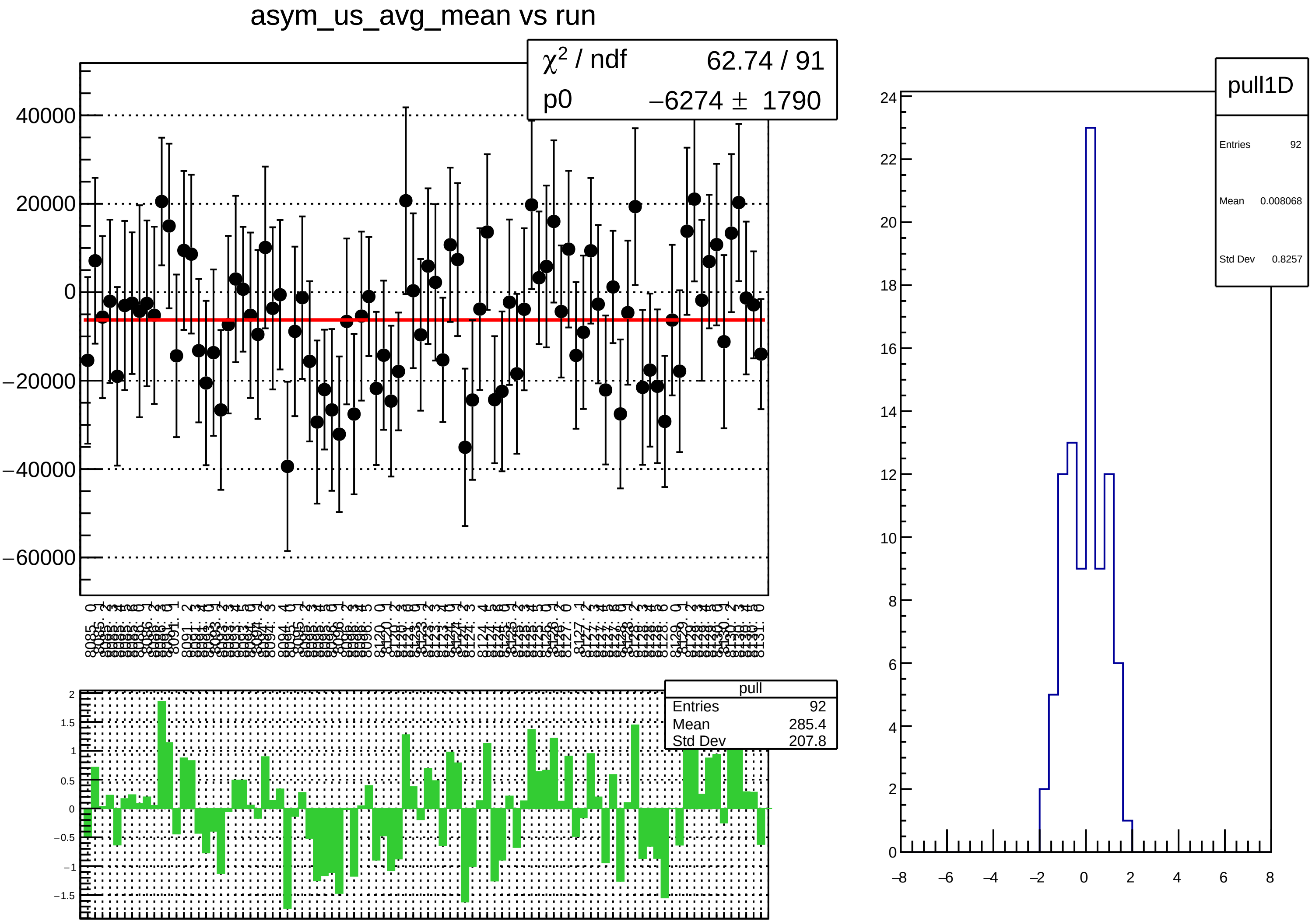


reg_asym_us_avg_rms vs run
χ2 / ndf 186.1 / 91
p0 758.9 ± 0.5591
780
770
760
750
740
730

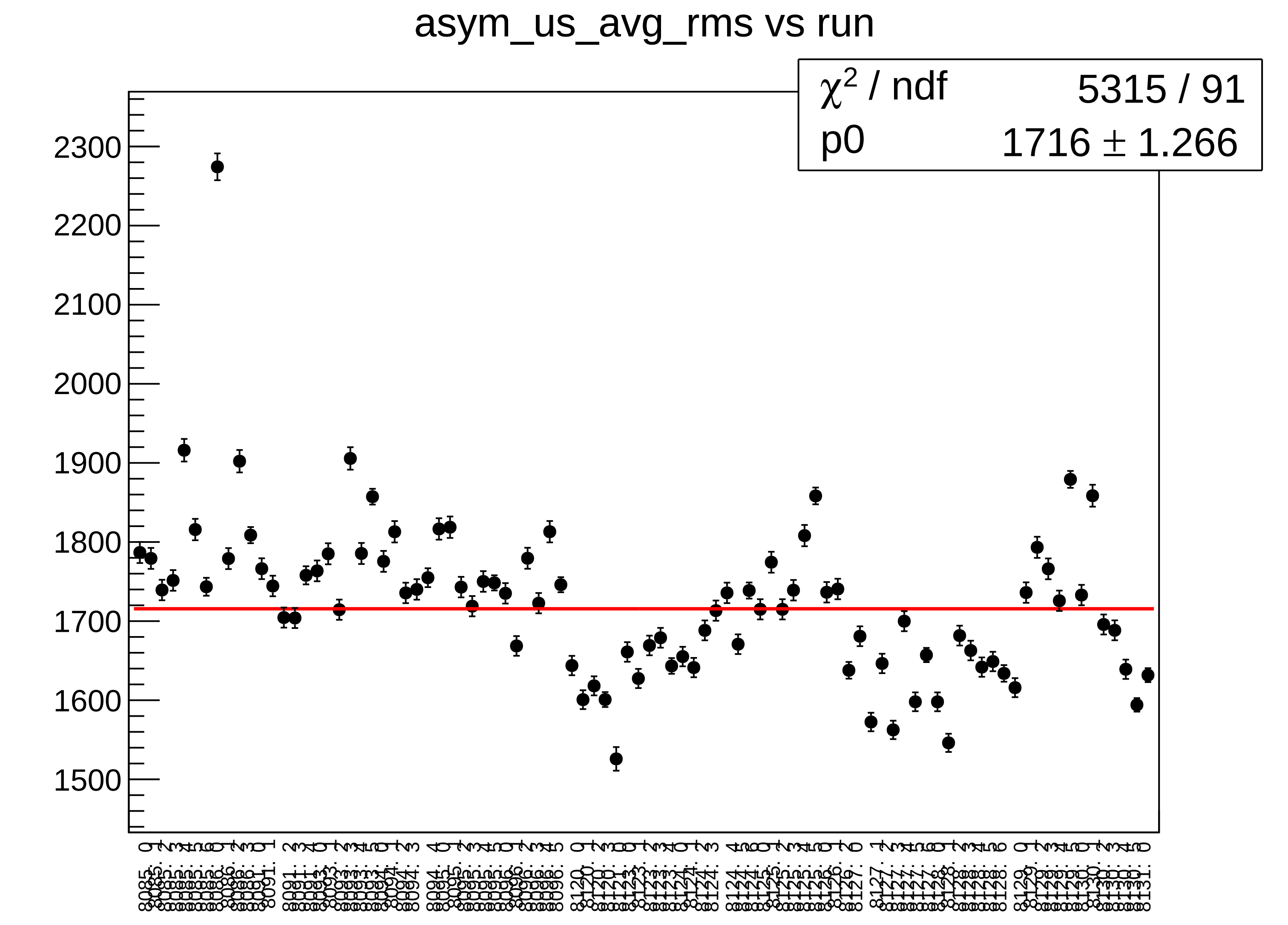


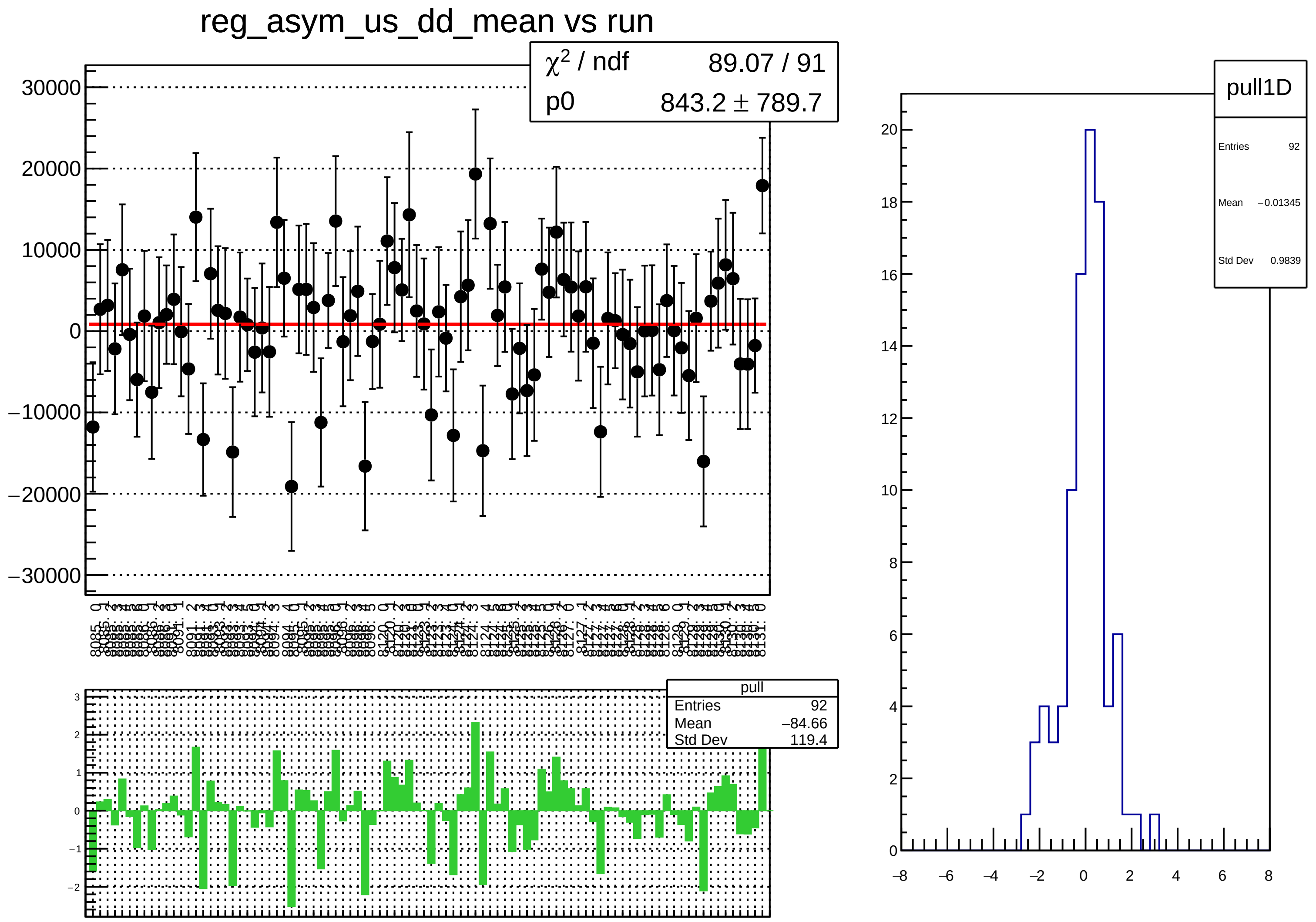
asym_us_avg_correction_mean vs run
χ2 / ndf 60.01 / 91
p0 2696 ± 1603
pull
Entries 92
Mean 288.9
Std Dev 230.5
pull1D
Entries 92
Mean −0.009169
Std Dev 0.8076


asym_us_avg_correction_rms vs run
χ2 / ndf 8017 / 91
p0 1535 ± 1.134
2200
2000
1800
1600
1400

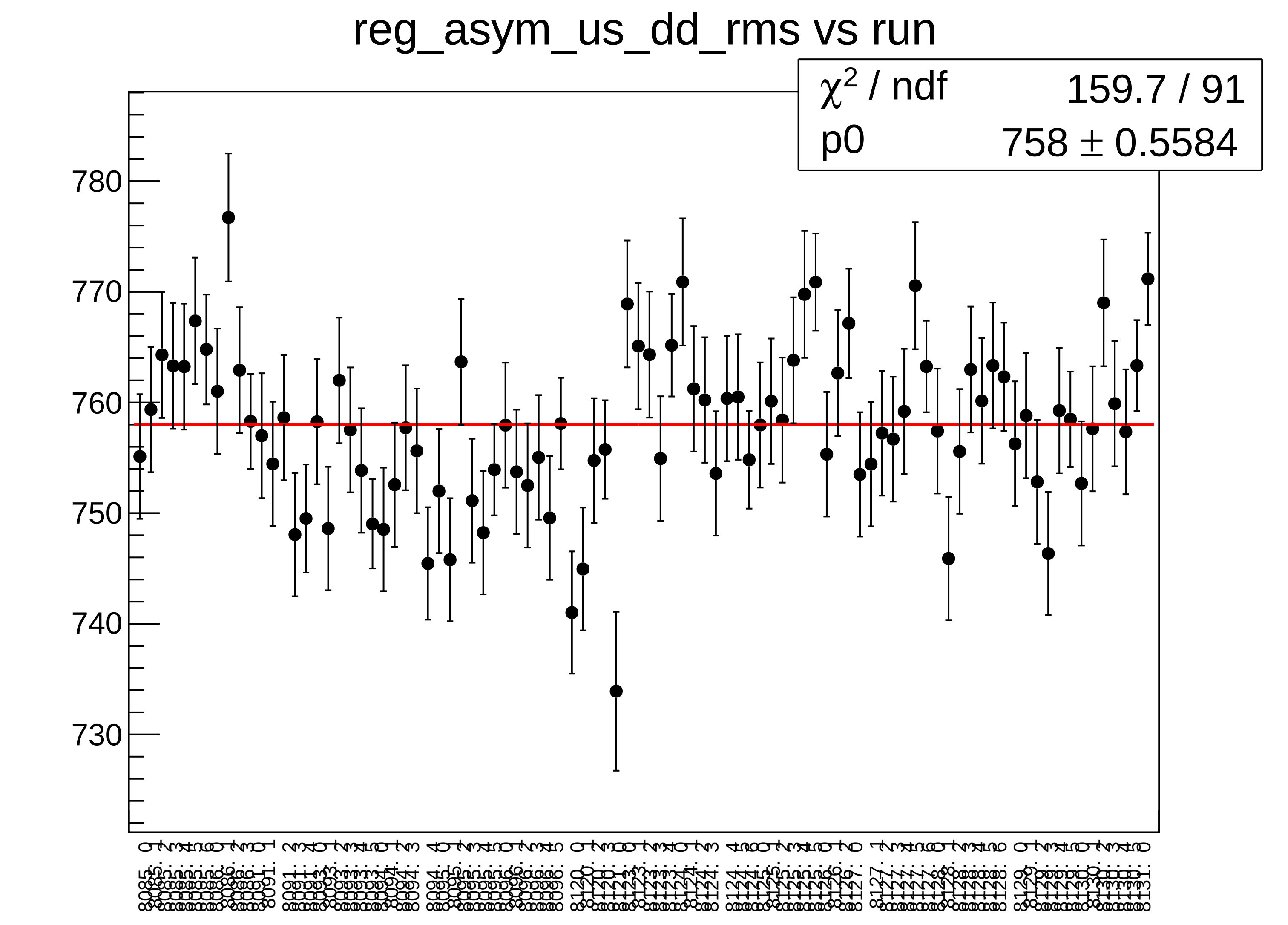


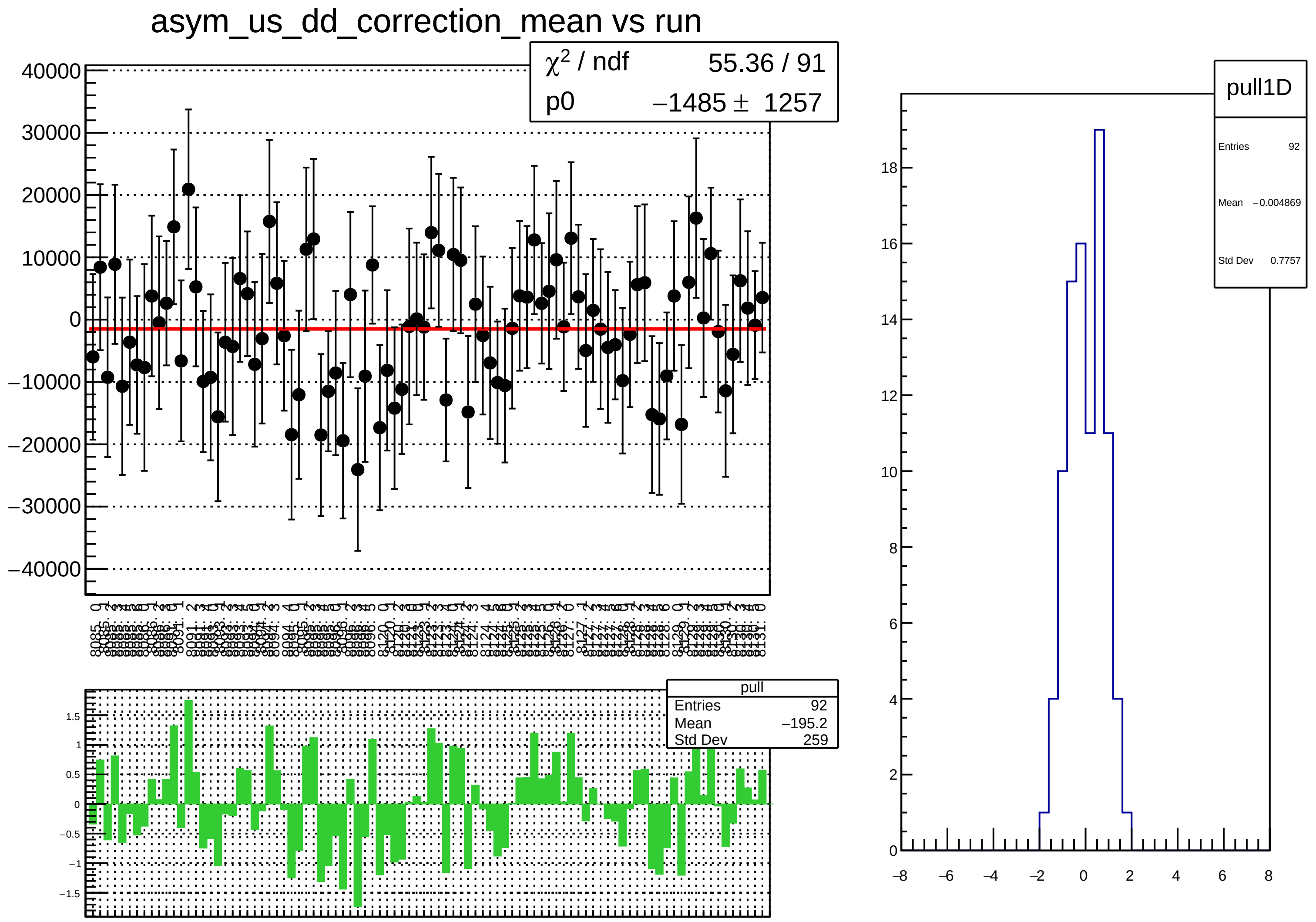
asym_us_avg_mean vs run
χ^2 / ndf 62.74 / 91
p0 −6274 ± 1790
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 285.4
Std Dev 207.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.008068
Std Dev 0.8257
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_us_avg_rms vs run
χ^2 / ndf 5315 / 91
p0 1716 ± 1.266
2300
2200
2100
2000
1900
1800
1700
1600
1500



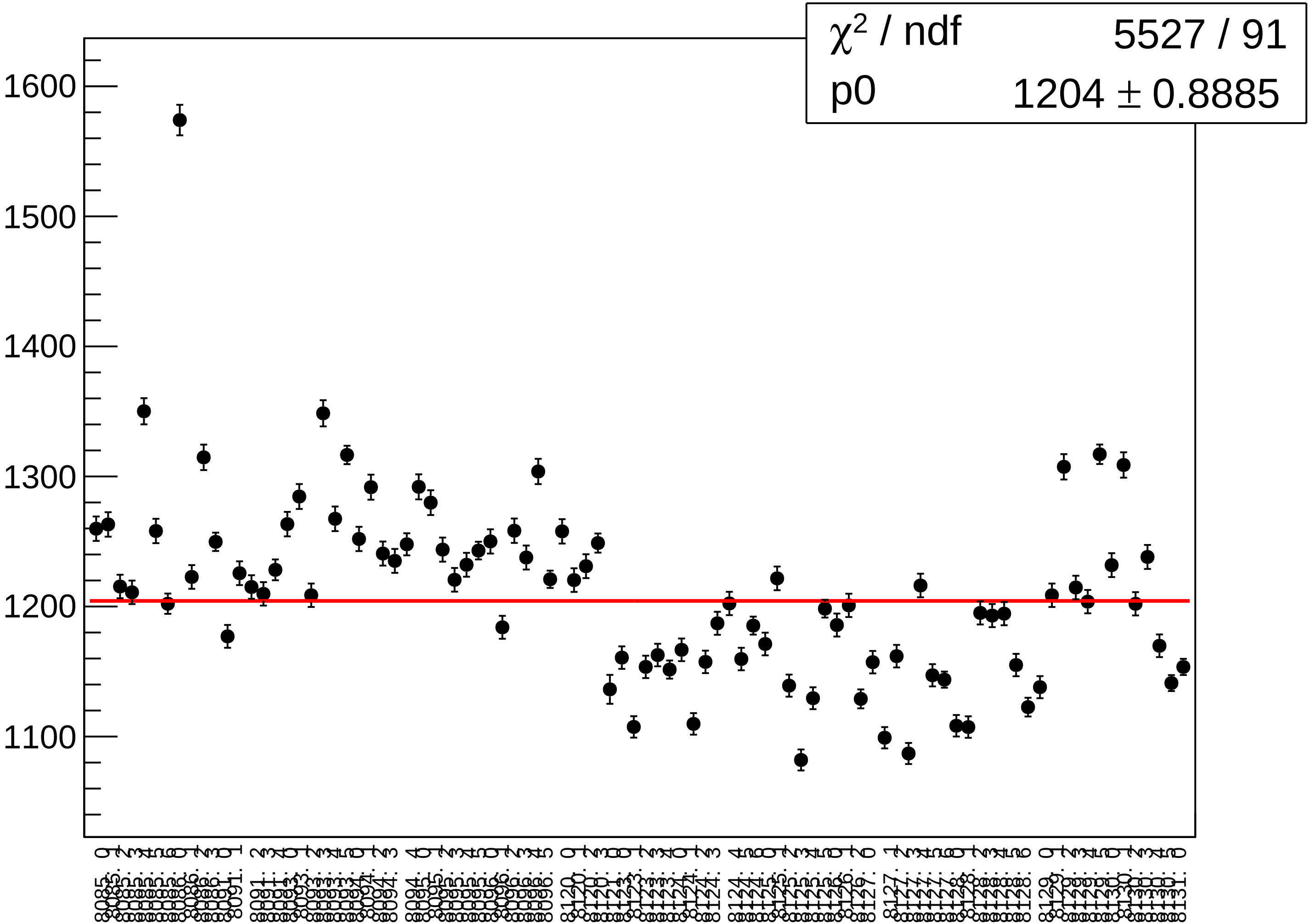
reg_asym_us_dd_mean vs run
χ^2 / ndf 89.07 / 91
p0 843.2 ± 789.7
pull
Entries 92
Mean −84.66
Std Dev 119.4
pull1D
Entries 92
Mean −0.01345
Std Dev 0.9839

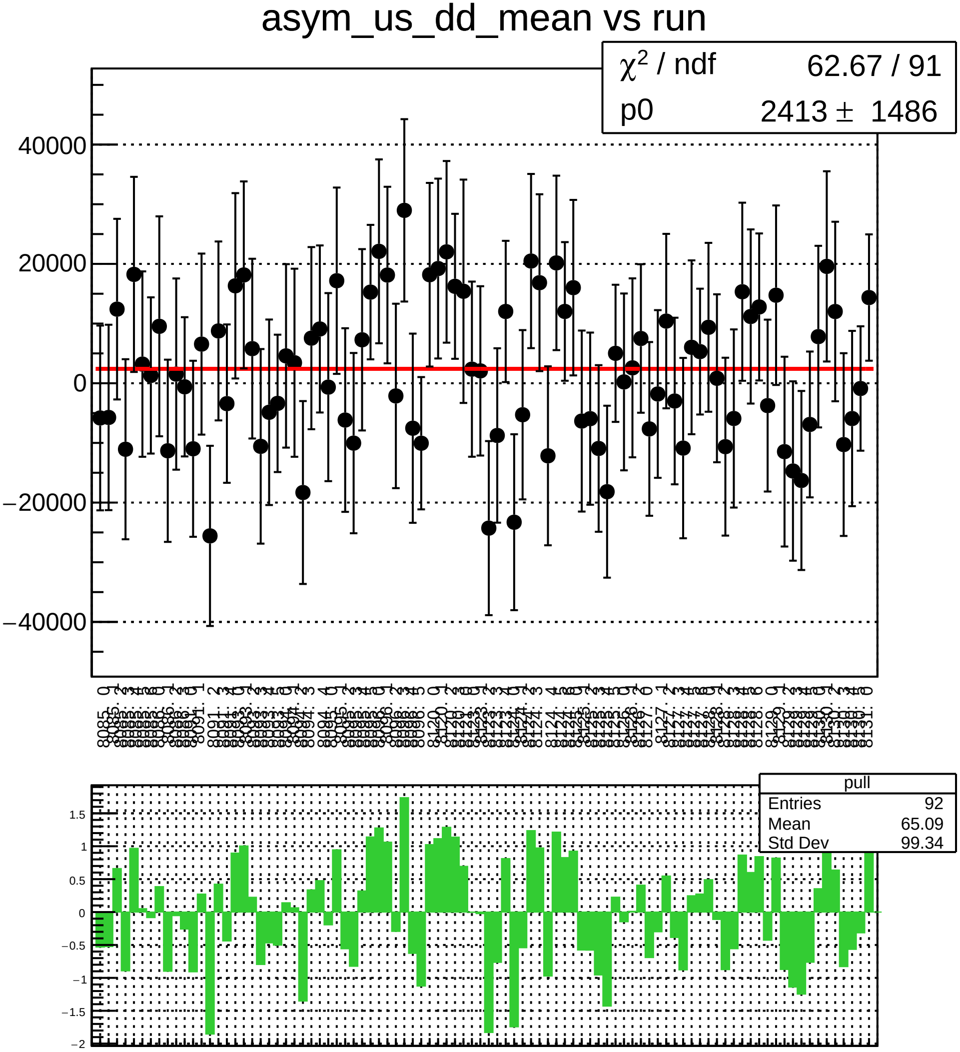

reg_asym_us_dd_rms vs run
χ^2 / ndf 159.7 / 91
p0 758 ± 0.5584
780
770
760
750
740
730



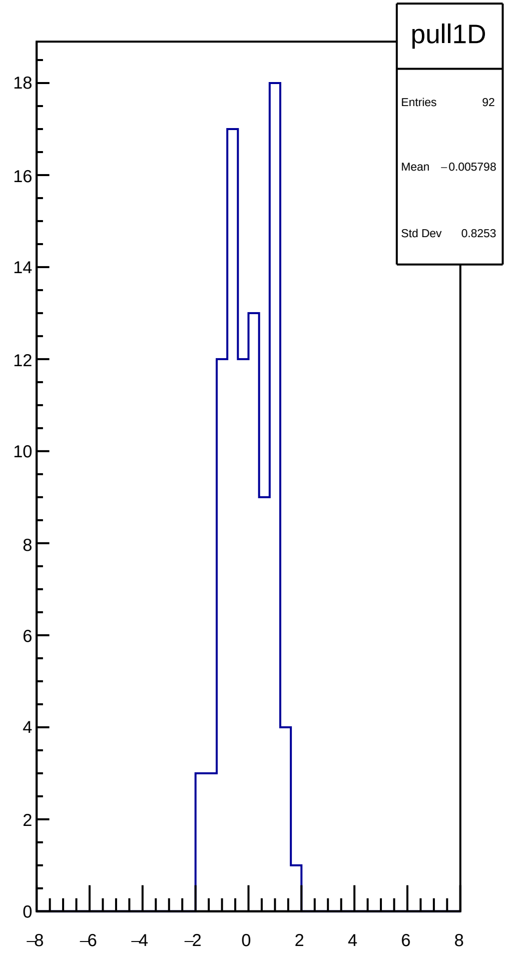
asym_us_dd_correction_mean vs run
χ^2 / ndf 55.36 / 91
p0 −1485 ± 1257
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −195.2
Std Dev 259
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.004869
Std Dev 0.7757
18
16
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8

asym_us_dd_correction_rms vs run

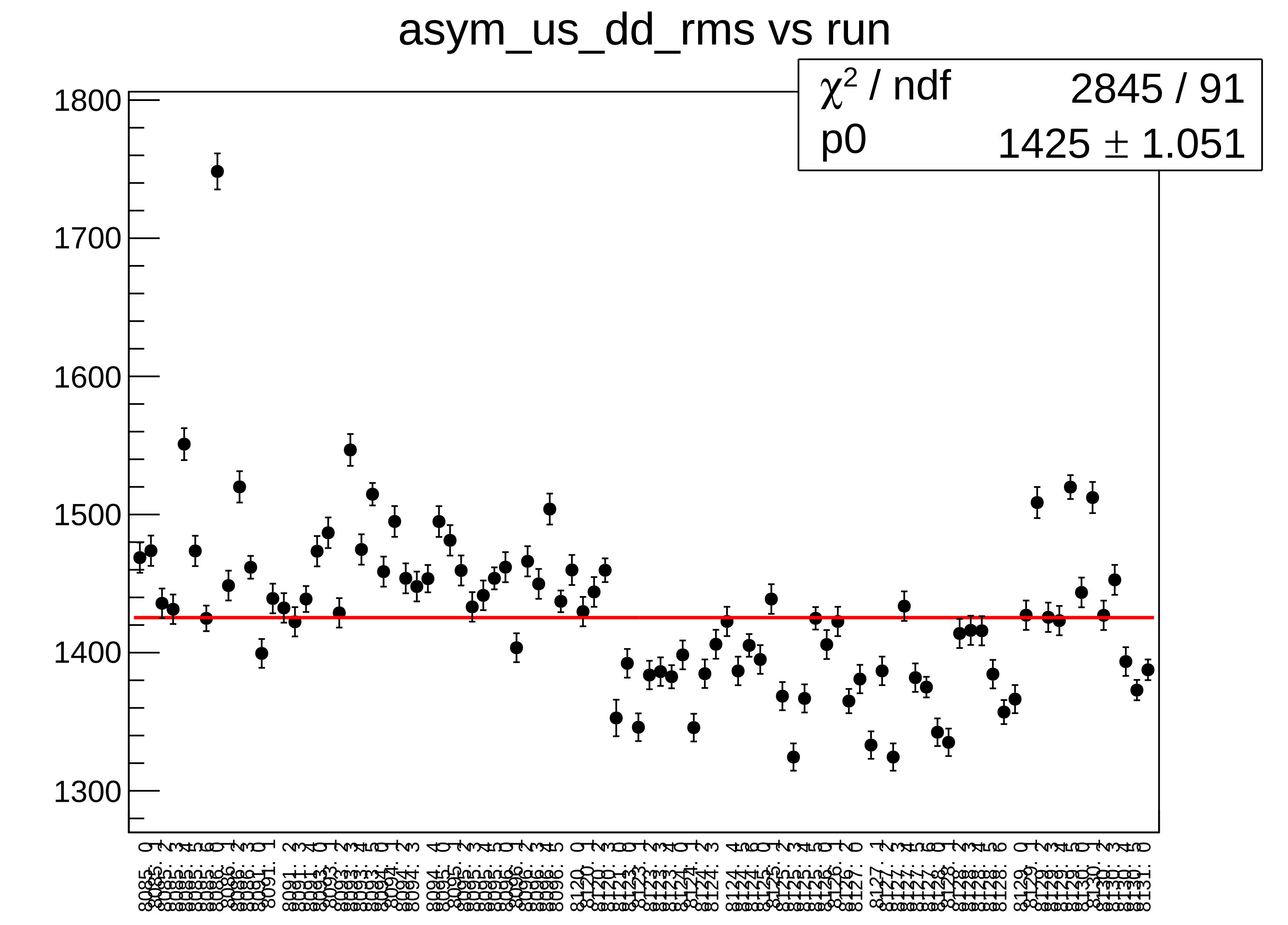




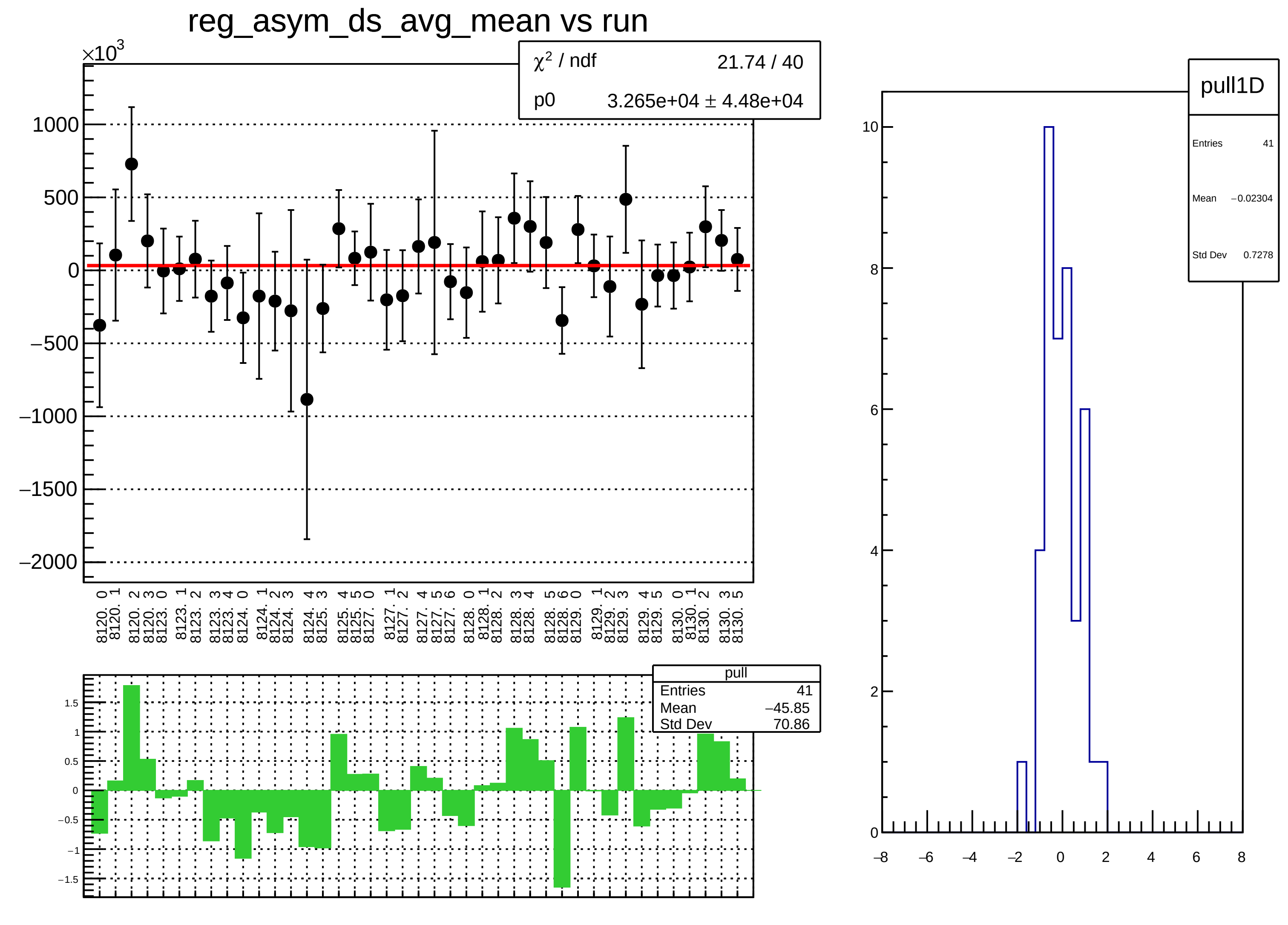
asym_us_dd_mean vs run
χ2 / ndf 62.67 / 91
p0 2413 ± 1486
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 65.09
Std Dev 99.34
1.5
1
0.5
0
−0.5
−1
−1.5
−2



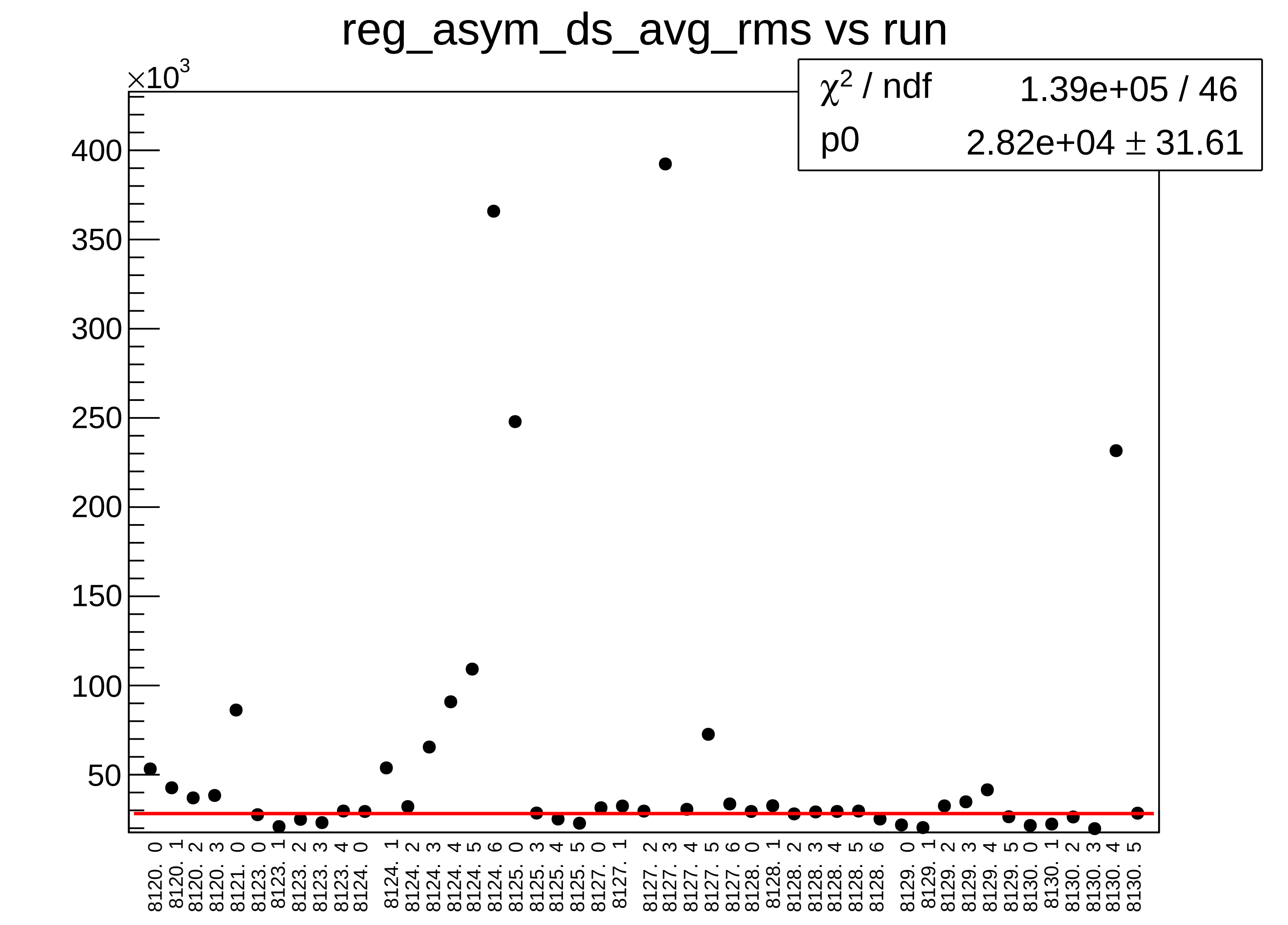
pull1D
Entries 92
Mean −0.005798
Std Dev 0.8253
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

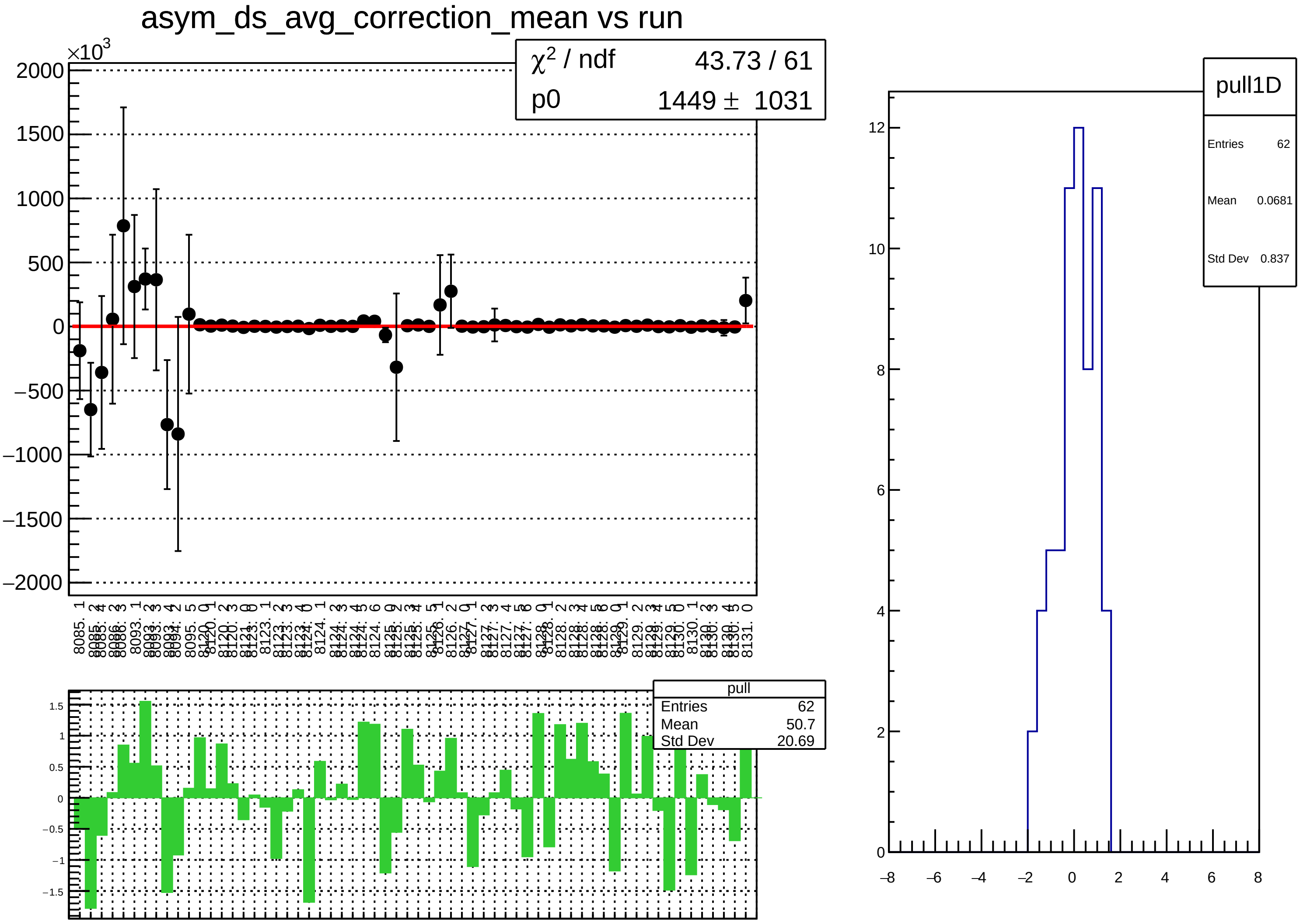


asym_us_dd_rms vs run
χ2 / ndf 2845 / 91
p0 1425 ± 1.051
1800
1700
1600
1500
1400
1300

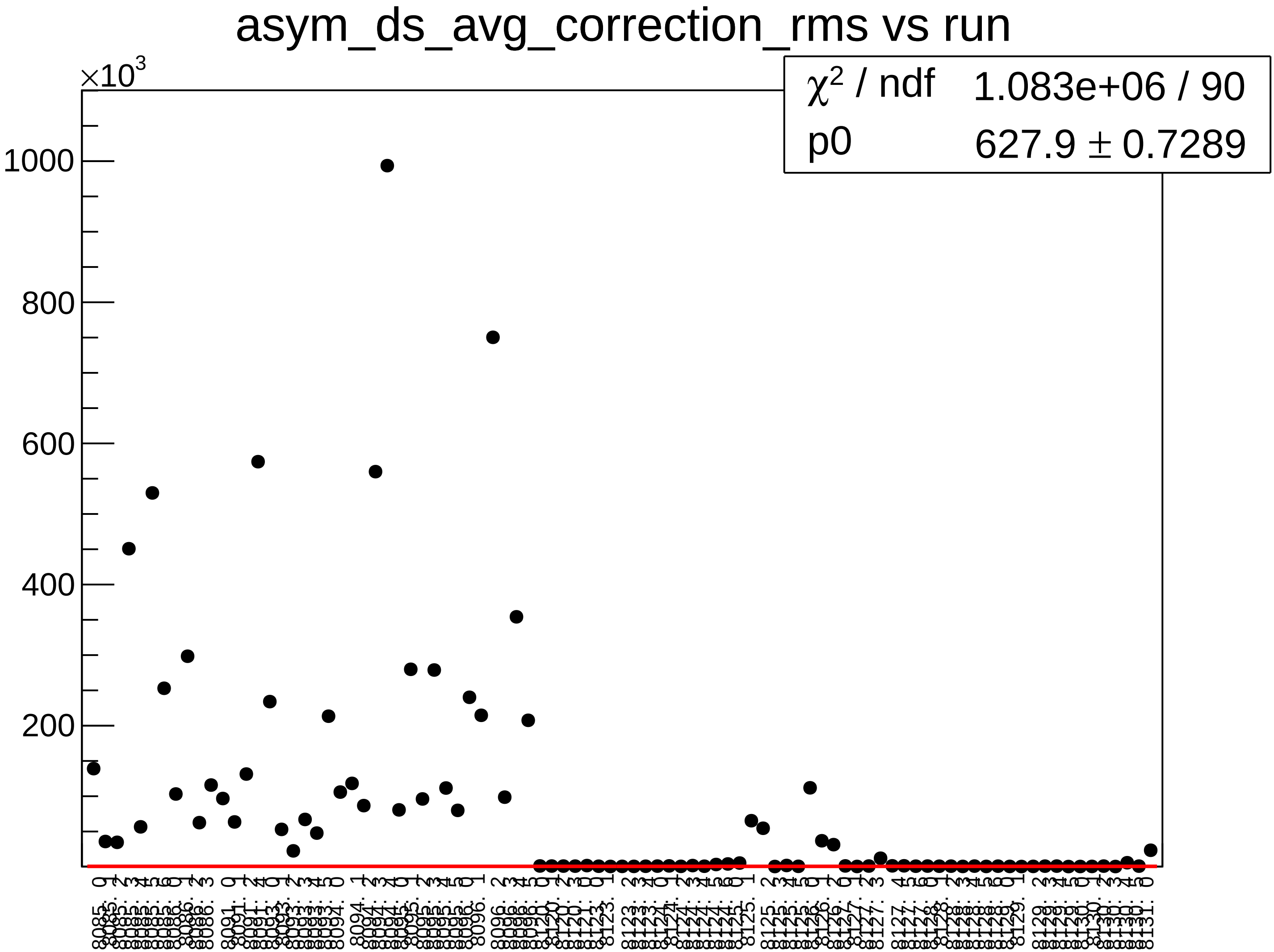


reg_asym_ds_avg_mean vs run
×10^3
χ2 / ndf 21.74 / 40
p0 3.265e+04 ± 4.48e+04
pull
Entries 41
Mean −45.85
Std Dev 70.86
pull1D
Entries 41
Mean −0.02304
Std Dev 0.7278

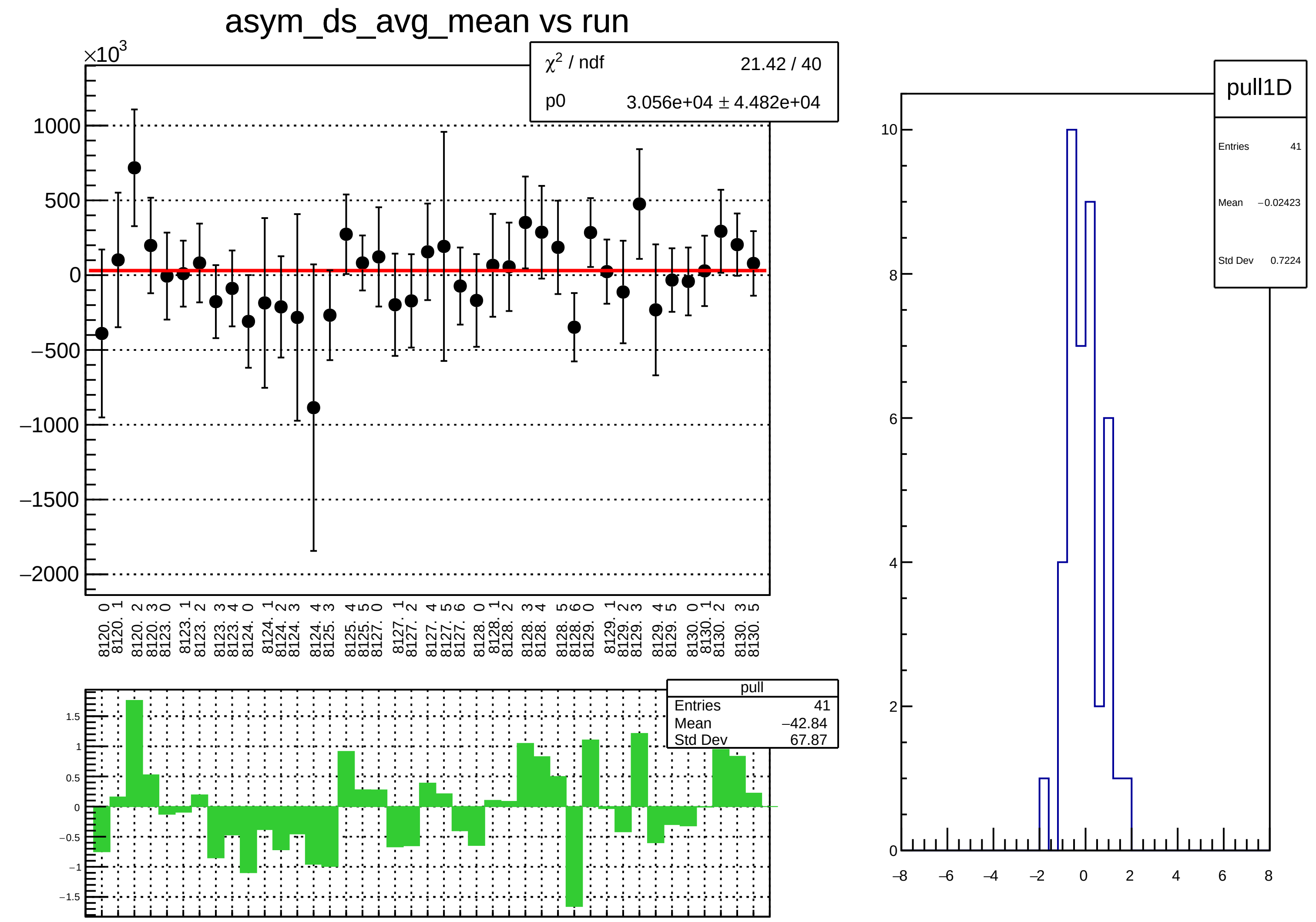

reg_asym_ds_avg_rms vs run
×10^3
χ2 / ndf 1.39e+05 / 46
p0 2.82e+04 ± 31.61
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5



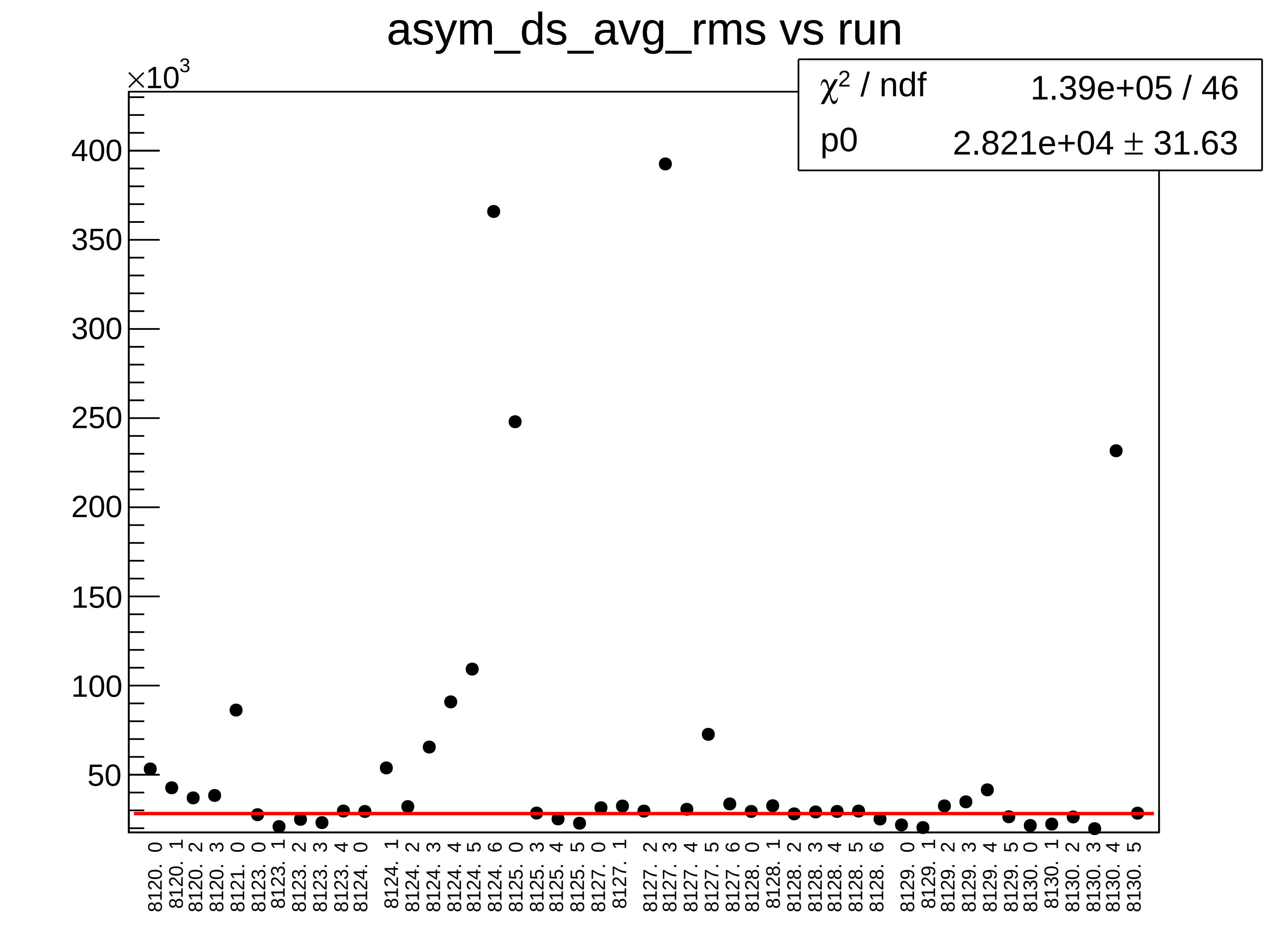
asym_ds_avg_correction_mean vs run
$\times 10^3$
χ^2 / ndf 43.73 / 61
p0 1449 ± 1031
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 62
Mean 50.7
Std Dev 20.69
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean 0.0681
Std Dev 0.837
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



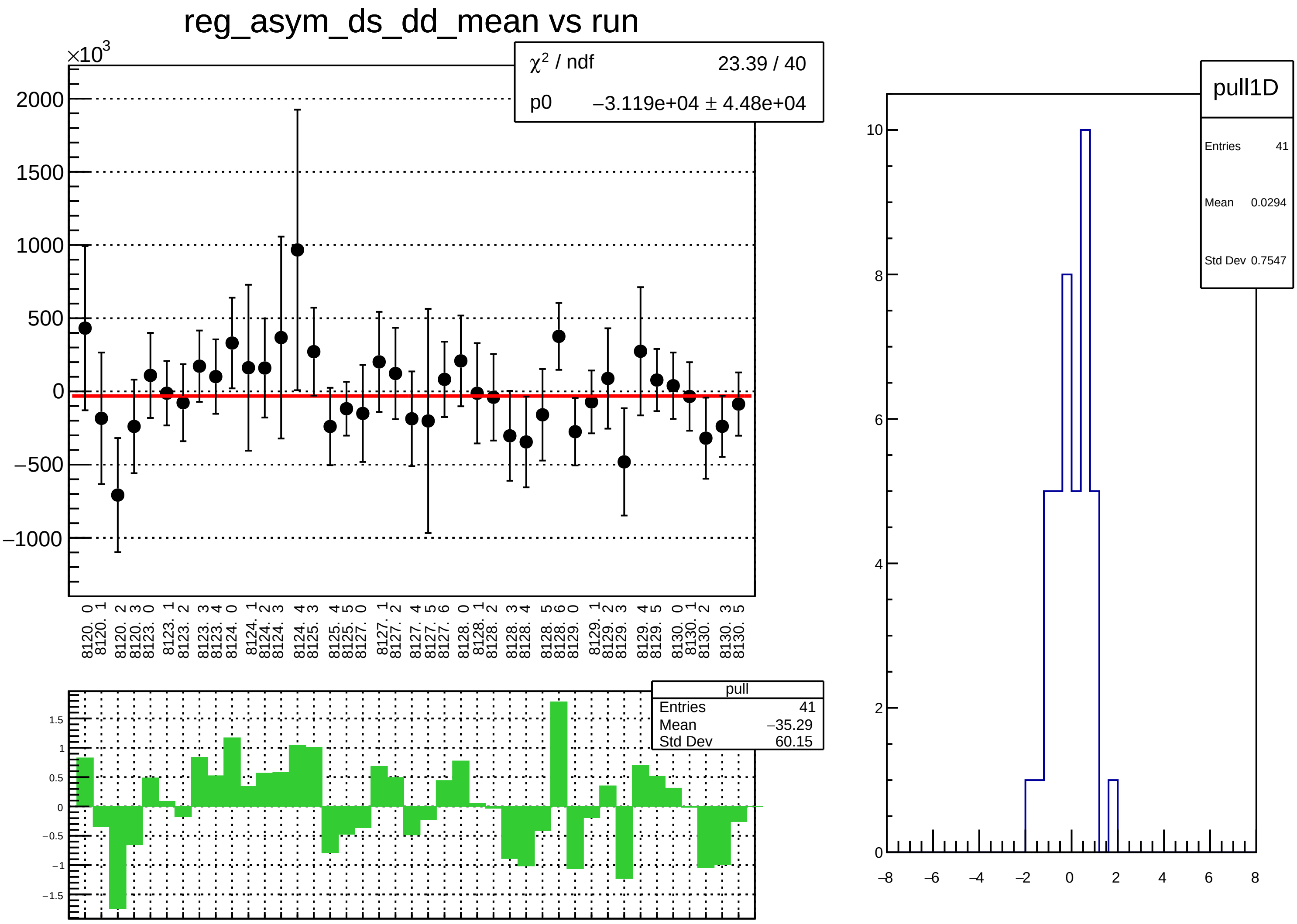
asym_ds_avg_correction_rms vs run
$\times10^3$
χ^2 / ndf 1.083e+06 / 90
p0 627.9 ± 0.7289
1000
800
600
400
200

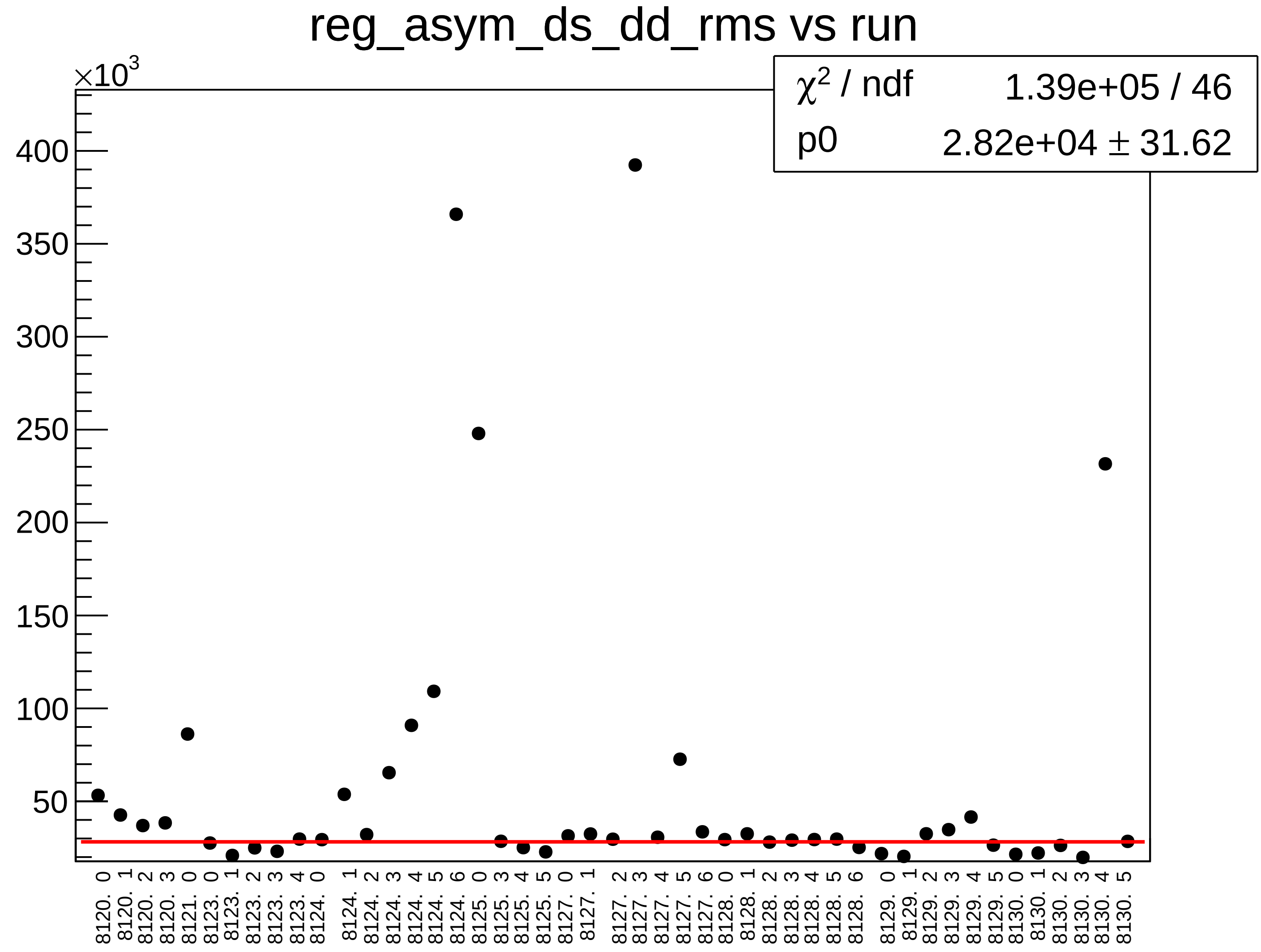


asym_ds_avg_mean vs run
×10^3
χ2 / ndf 21.42 / 40
p0 3.056e+04 ± 4.482e+04
pull
Entries 41
Mean −42.84
Std Dev 67.87
pull1D
Entries 41
Mean −0.02423
Std Dev 0.7224

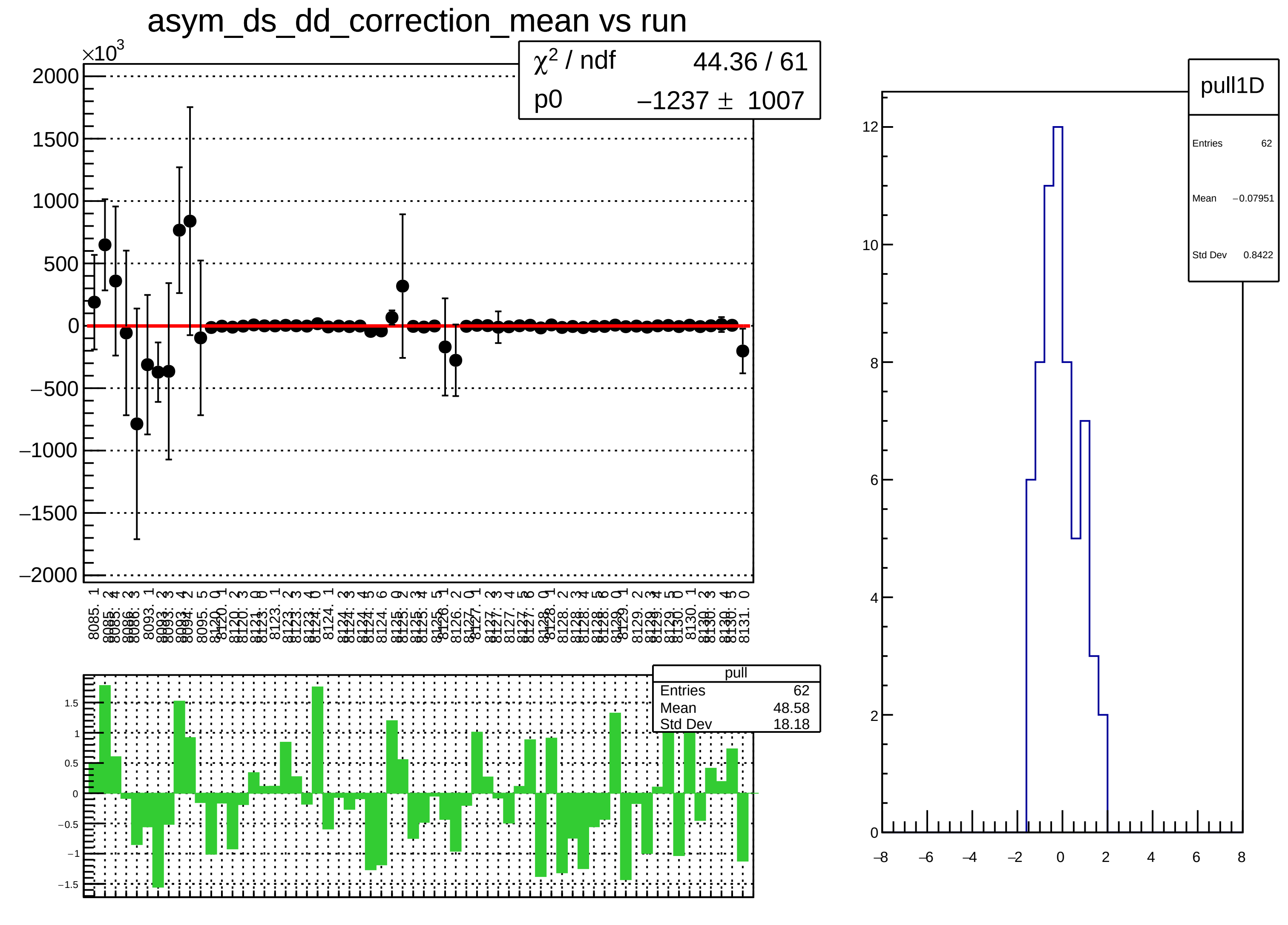


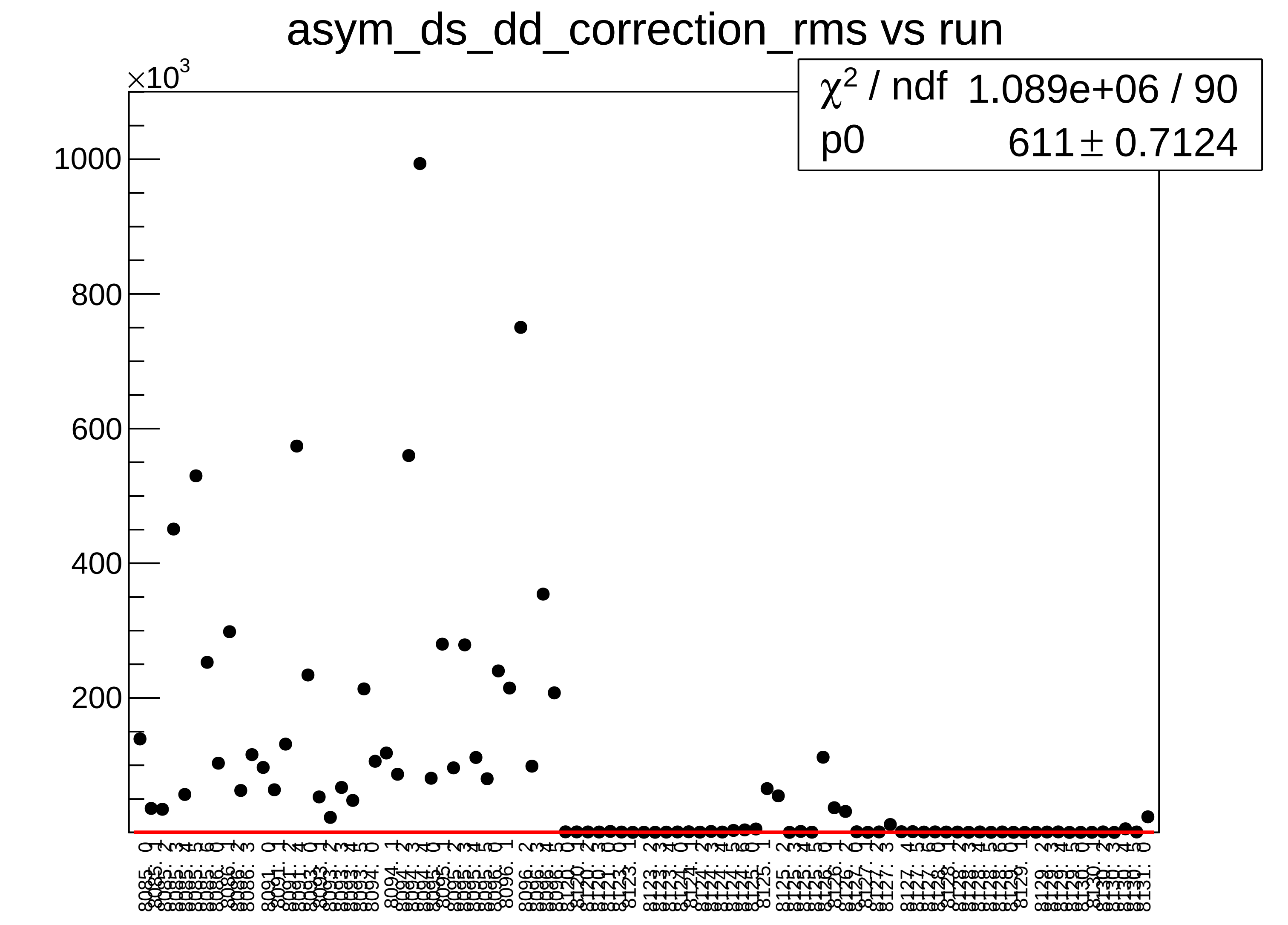
asym_ds_avg_rms vs run
$\times 10^3$
χ^2 / ndf 1.39e+05 / 46
p0 2.821e+04 ± 31.63
400
350
300
250
200
150
100
50
8120.0
8120.1
8120.2
8120.3
8121.0
8123.0
8123.1
8123.2
8123.3
8123.4
8124.0
8124.1
8124.2
8124.3
8124.4
8124.5
8124.6
8125.0
8125.3
8125.4
8125.5
8127.0
8127.1
8127.2
8127.3
8127.4
8127.5
8127.6
8128.0
8128.1
8128.2
8128.3
8128.4
8128.5
8128.6
8129.0
8129.1
8129.2
8129.3
8129.4
8129.5
8130.0
8130.1
8130.2
8130.3
8130.4
8130.5

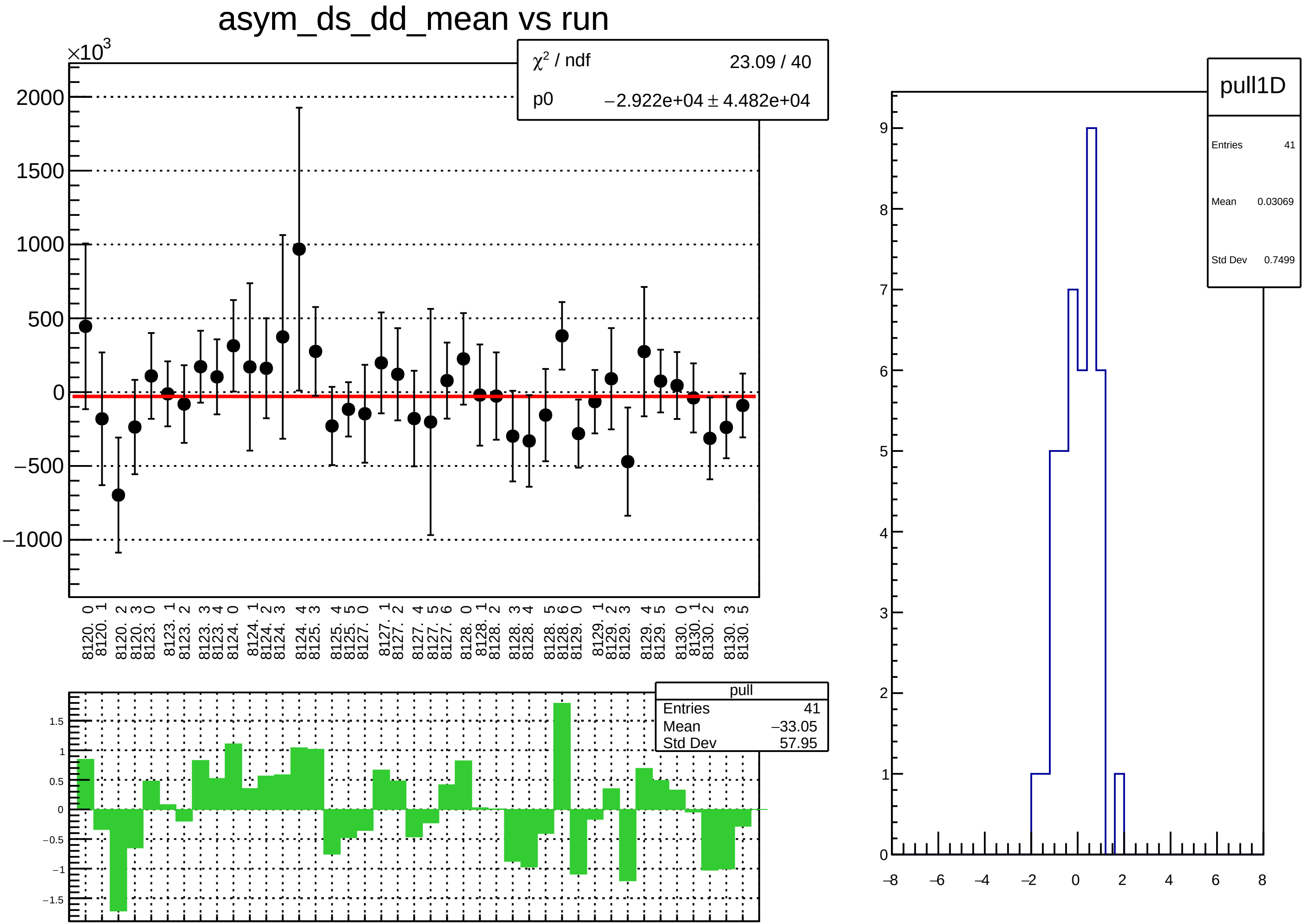

reg_asym_ds_dd_mean vs run
×10^3
χ2 / ndf 23.39 / 40
p0 −3.119e+04 ± 4.48e+04
pull
Entries 41
Mean −35.29
Std Dev 60.15
pull1D
Entries 41
Mean 0.0294
Std Dev 0.7547



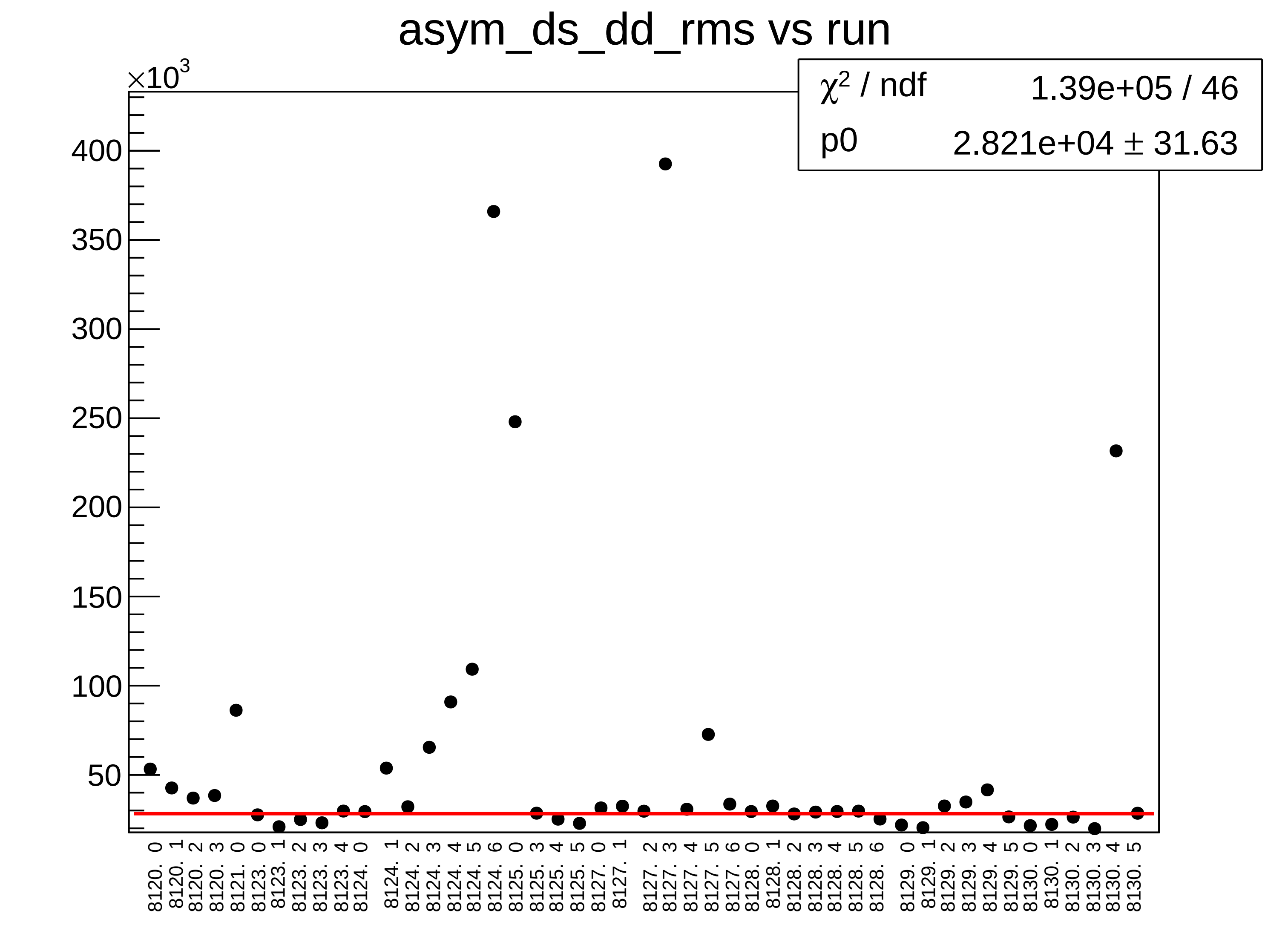
reg_asym_ds_dd_rms vs run
$\times 10^3$
χ^2 / ndf 1.39e+05 / 46
p0 2.82e+04 ± 31.62
400
350
300
250
200
150
100
50
8120.0
8120.1
8120.2
8120.3
8121.0
8123.0
8123.1
8123.2
8123.3
8123.4
8124.0
8124.1
8124.2
8124.3
8124.4
8124.5
8124.6
8125.0
8125.3
8125.4
8125.5
8127.0
8127.1
8127.2
8127.3
8127.4
8127.5
8127.6
8128.0
8128.1
8128.2
8128.3
8128.4
8128.5
8128.6
8129.0
8129.1
8129.2
8129.3
8129.4
8129.5
8130.0
8130.1
8130.2
8130.3
8130.4
8130.5


asym_ds_dd_correction_mean vs run
χ² / ndf 44.36 / 61
p0 −1237 ± 1007
×10³
pull
Entries 62
Mean 48.58
Std Dev 18.18
pull1D
Entries 62
Mean −0.07951
Std Dev 0.8422

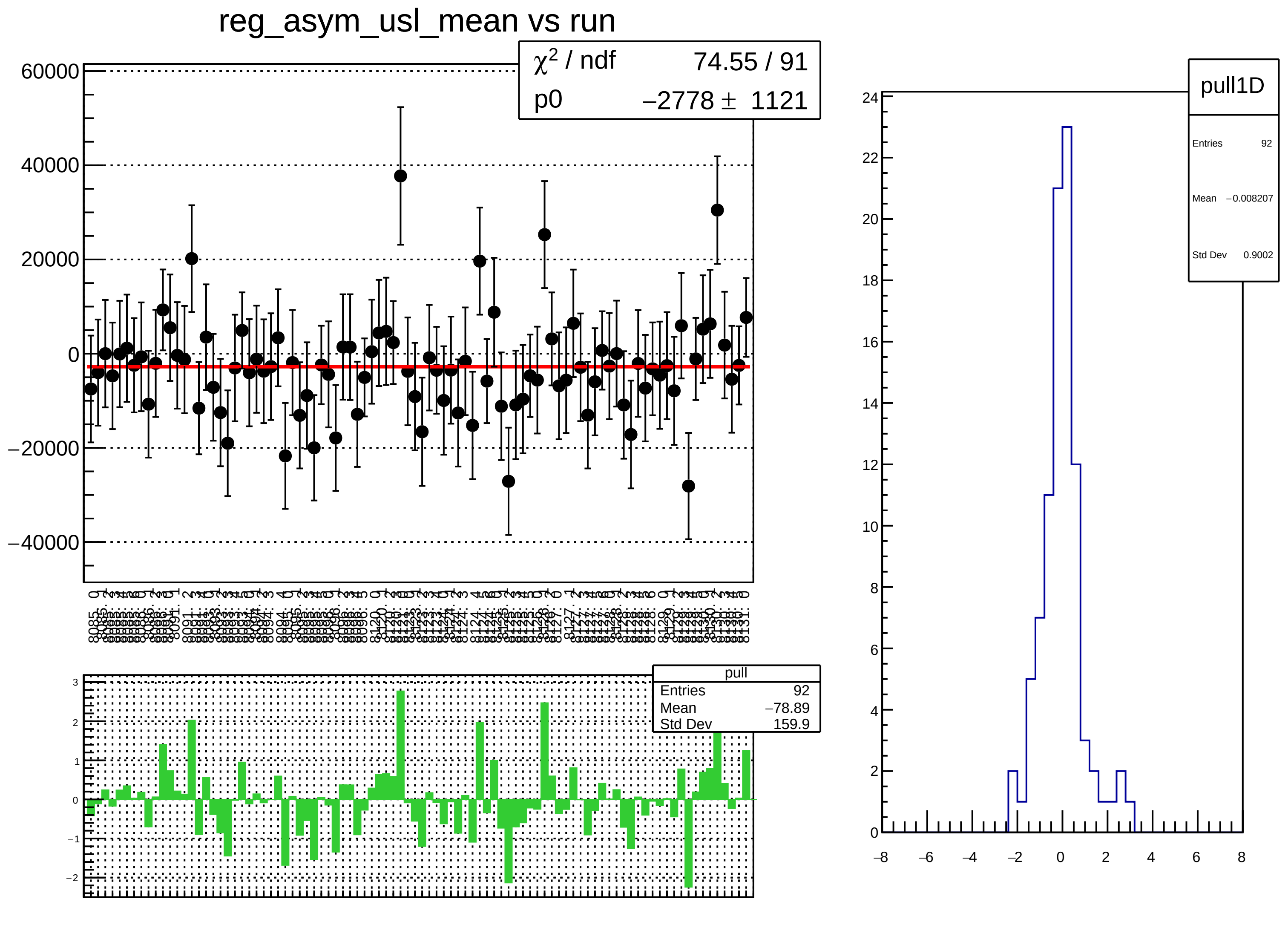

asym_ds_dd_correction_rms vs run
χ² / ndf 1.089e+06 / 90
p0 611 ± 0.7124
×10³
1000
800
600
400
200

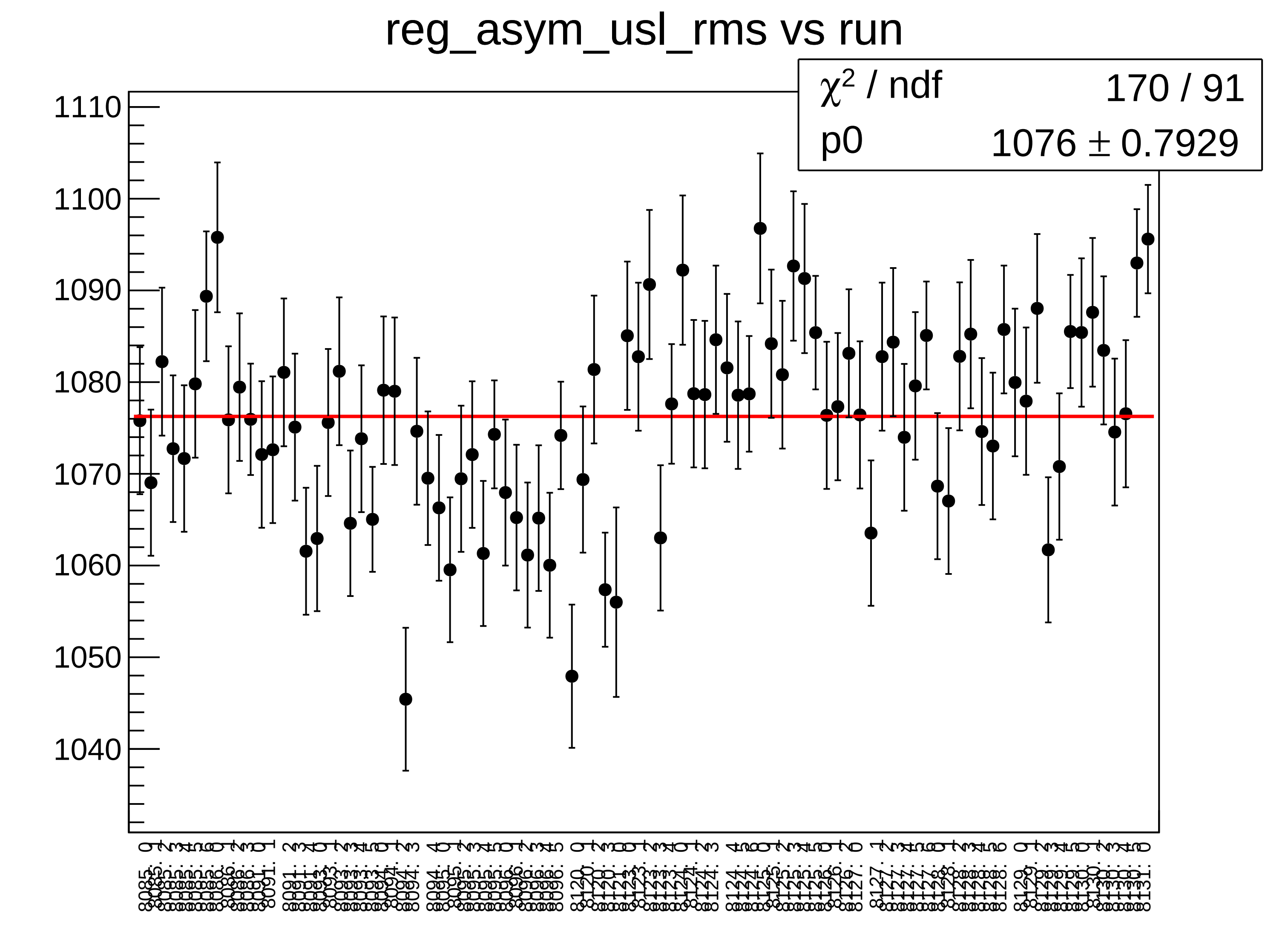


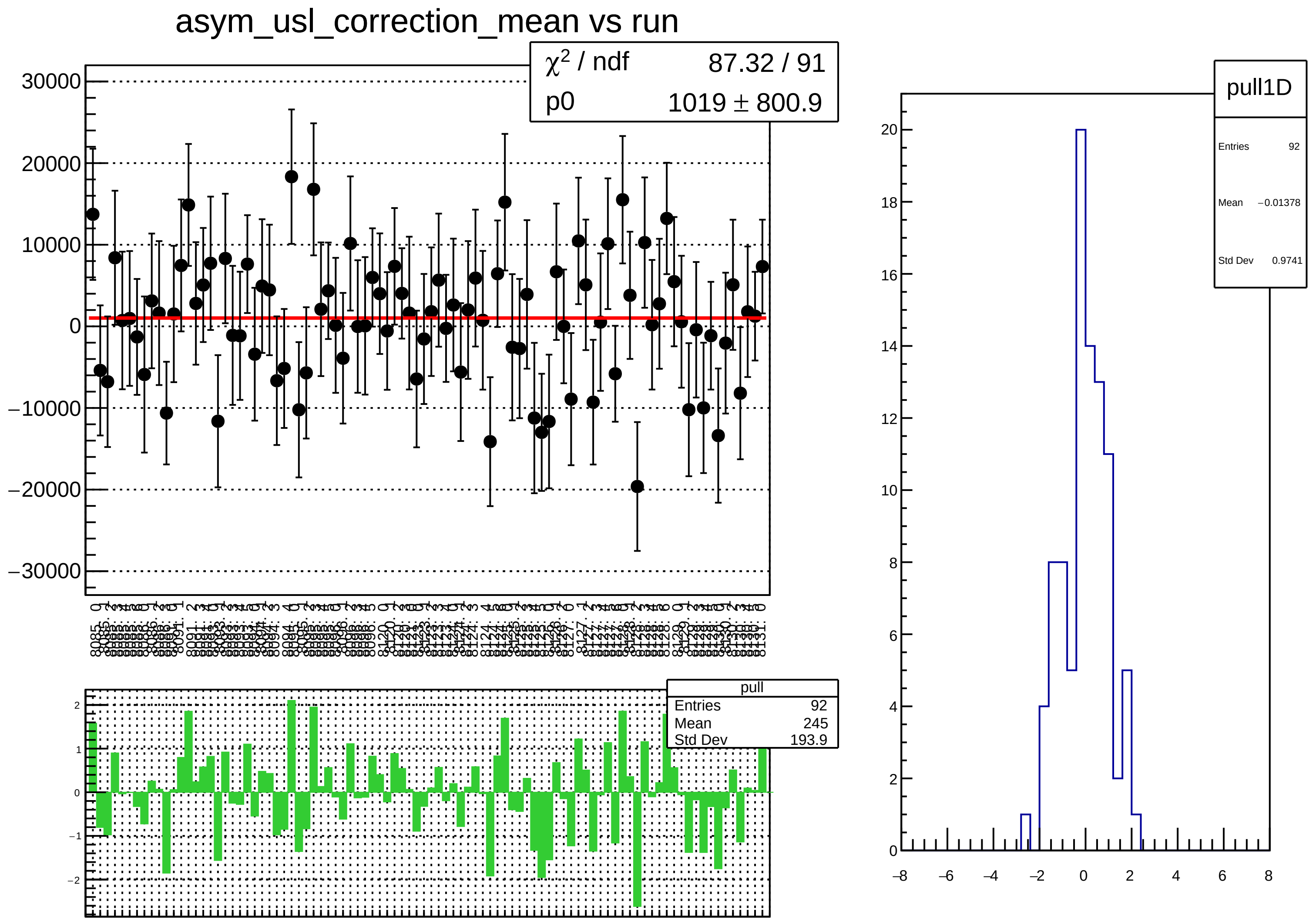
asym_ds_dd_mean vs run
χ² / ndf 23.09 / 40
p0 −2.922e+04 ± 4.482e+04
pull
Entries 41
Mean −33.05
Std Dev 57.95
pull1D
Entries 41
Mean 0.03069
Std Dev 0.7499



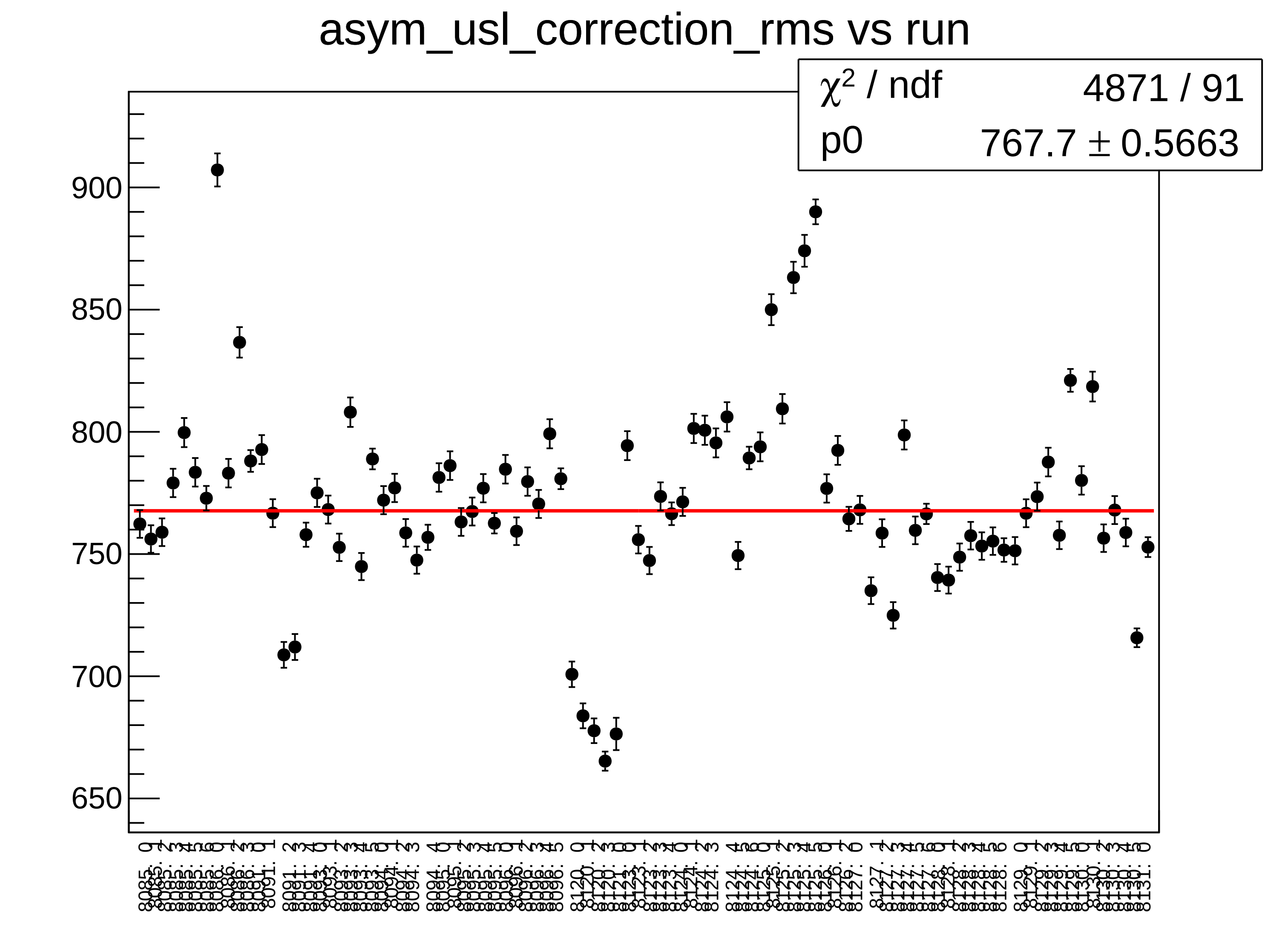
asym_ds_dd_rms vs run
$\times 10^3$
χ^2 / ndf 1.39e+05 / 46
p0 2.821e+04 ± 31.63
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5


reg_asym_usl_mean vs run
χ^2 / ndf 74.55 / 91
p0 −2778 ± 1121
pull
Entries 92
Mean −78.89
Std Dev 159.9
pull1D
Entries 92
Mean −0.008207
Std Dev 0.9002

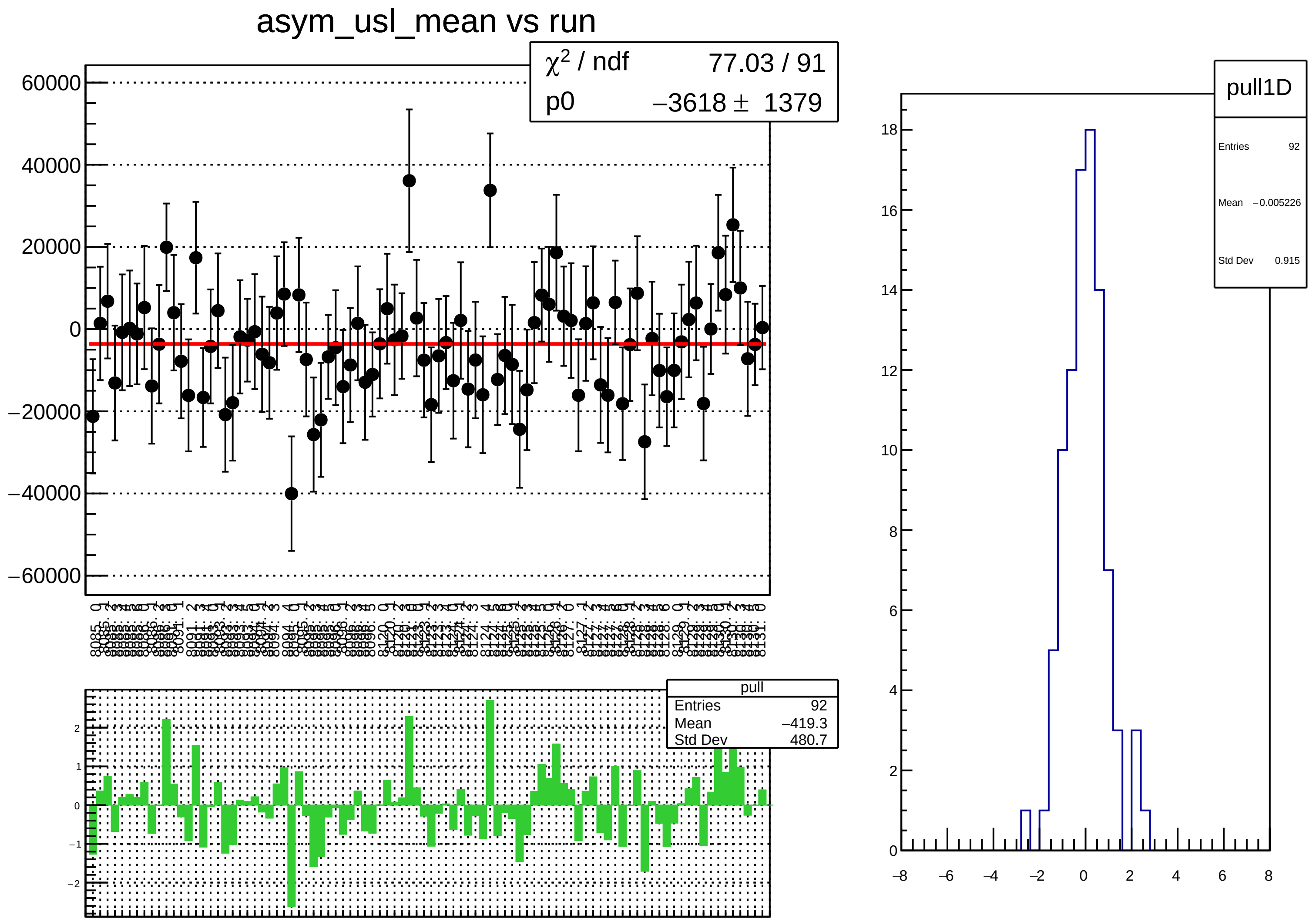

reg_asym_usl_rms vs run
χ2 / ndf 170 / 91
p0 1076 ± 0.7929
1110
1100
1090
1080
1070
1060
1050
1040



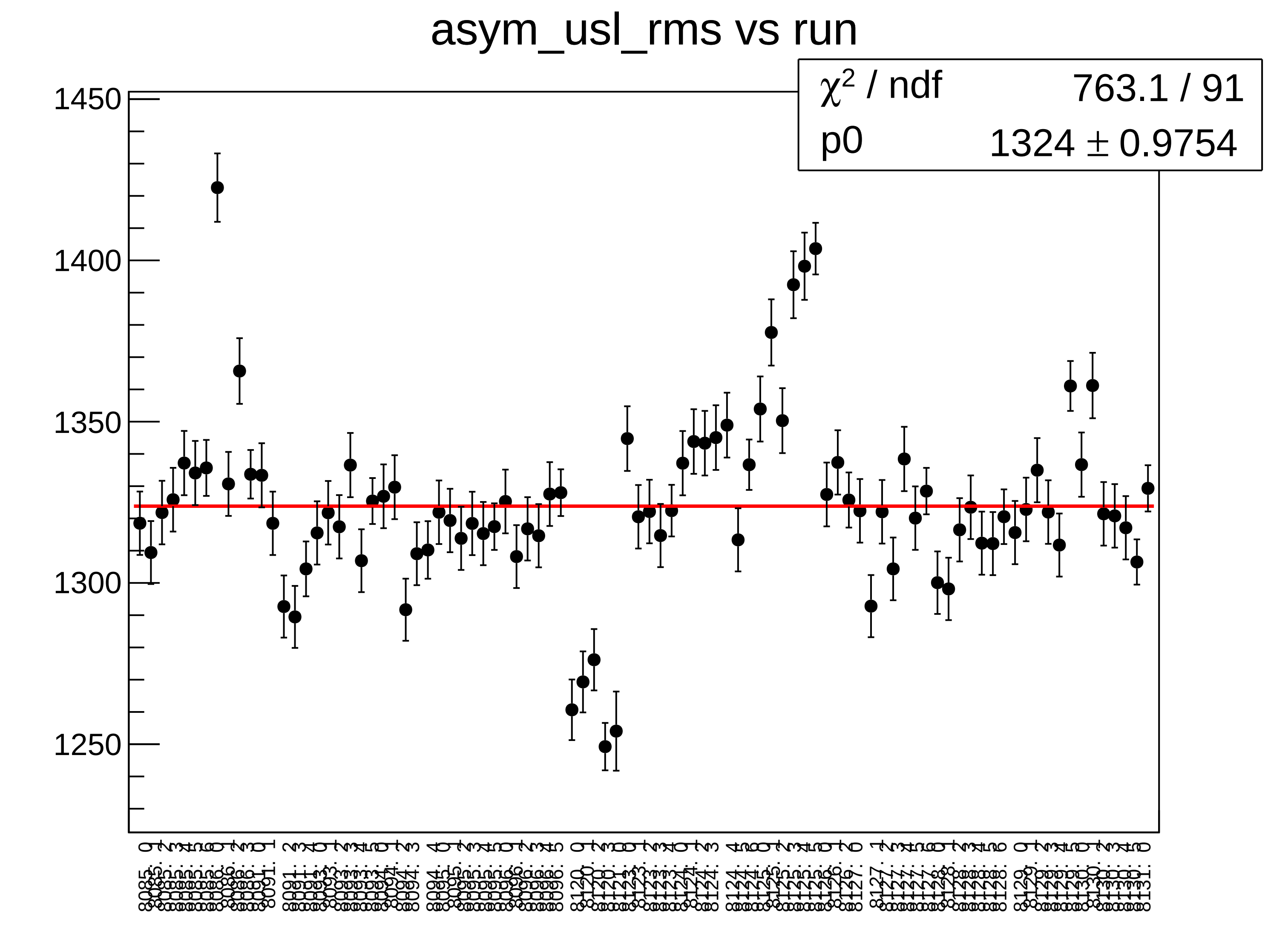
asym_usl_correction_mean vs run
χ^2 / ndf 87.32 / 91
p0 1019 ± 800.9
pull
Entries 92
Mean 245
Std Dev 193.9
pull1D
Entries 92
Mean −0.01378
Std Dev 0.9741



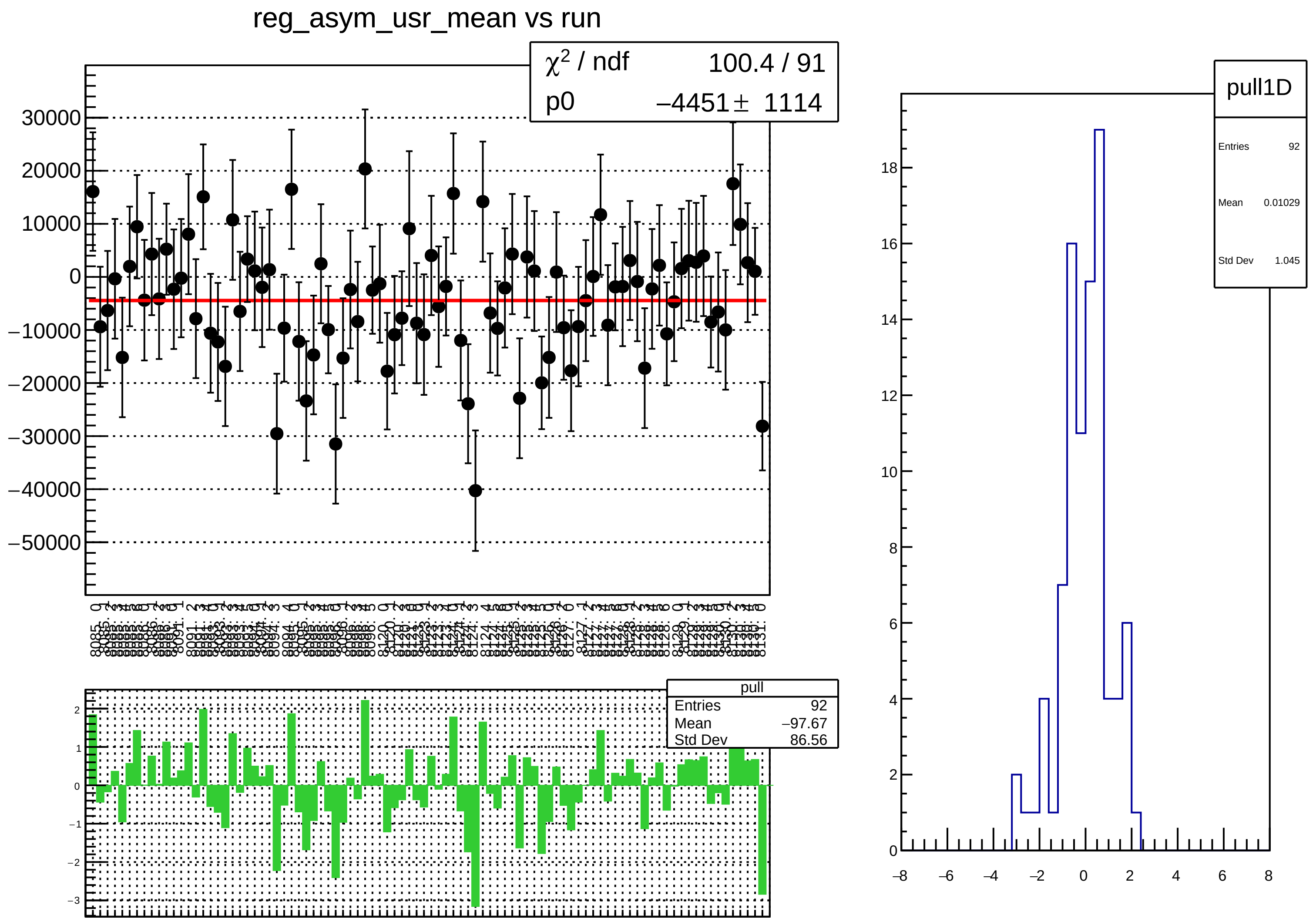
asym_usl_correction_rms vs run
χ2 / ndf 4871 / 91
p0 767.7 ± 0.5663
900
850
800
750
700
650



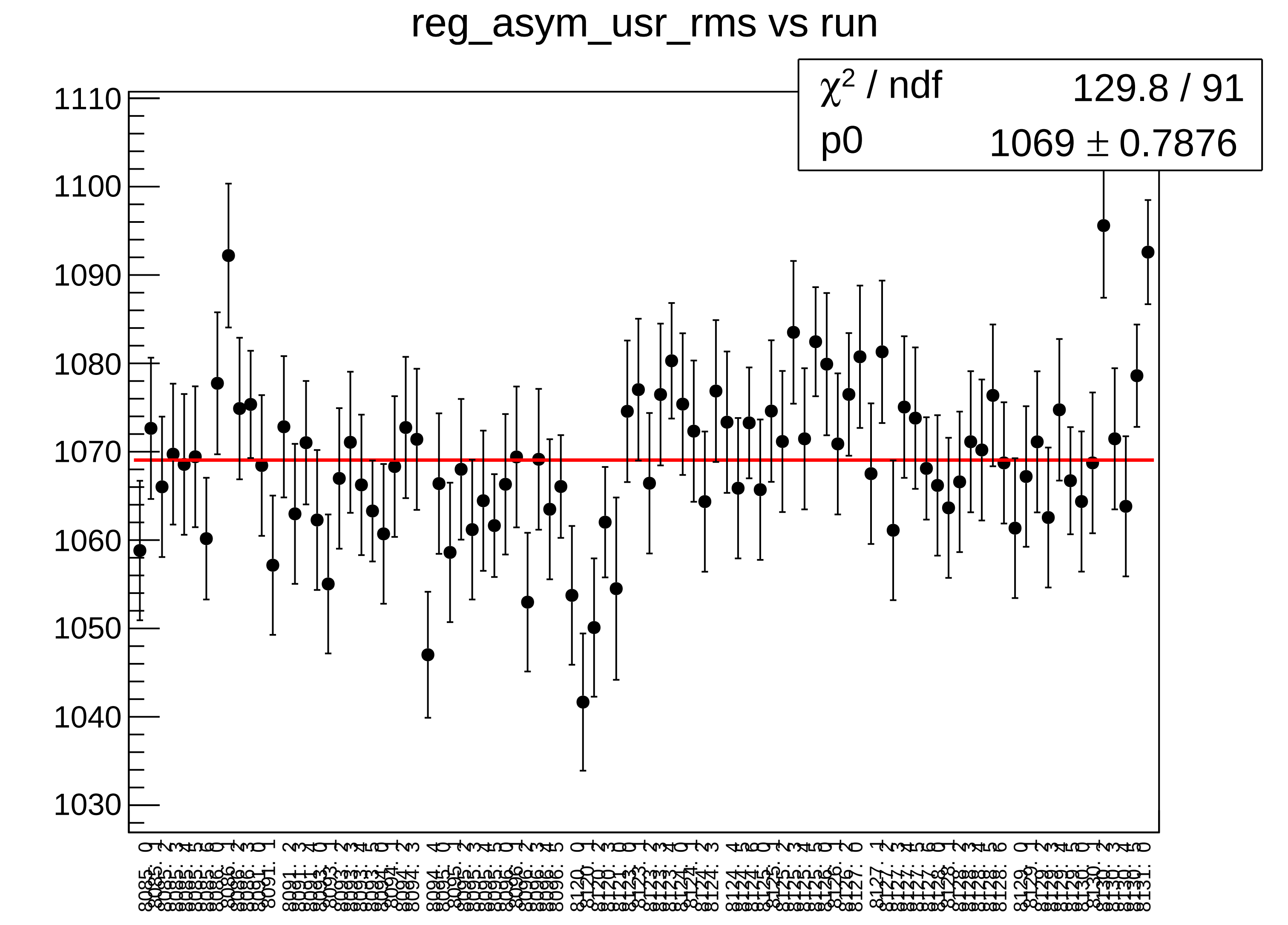
asym_usl_mean vs run
χ2 / ndf 77.03 / 91
p0 −3618 ± 1379
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −419.3
Std Dev 480.7
pull1D
Entries 92
Mean −0.005226
Std Dev 0.915

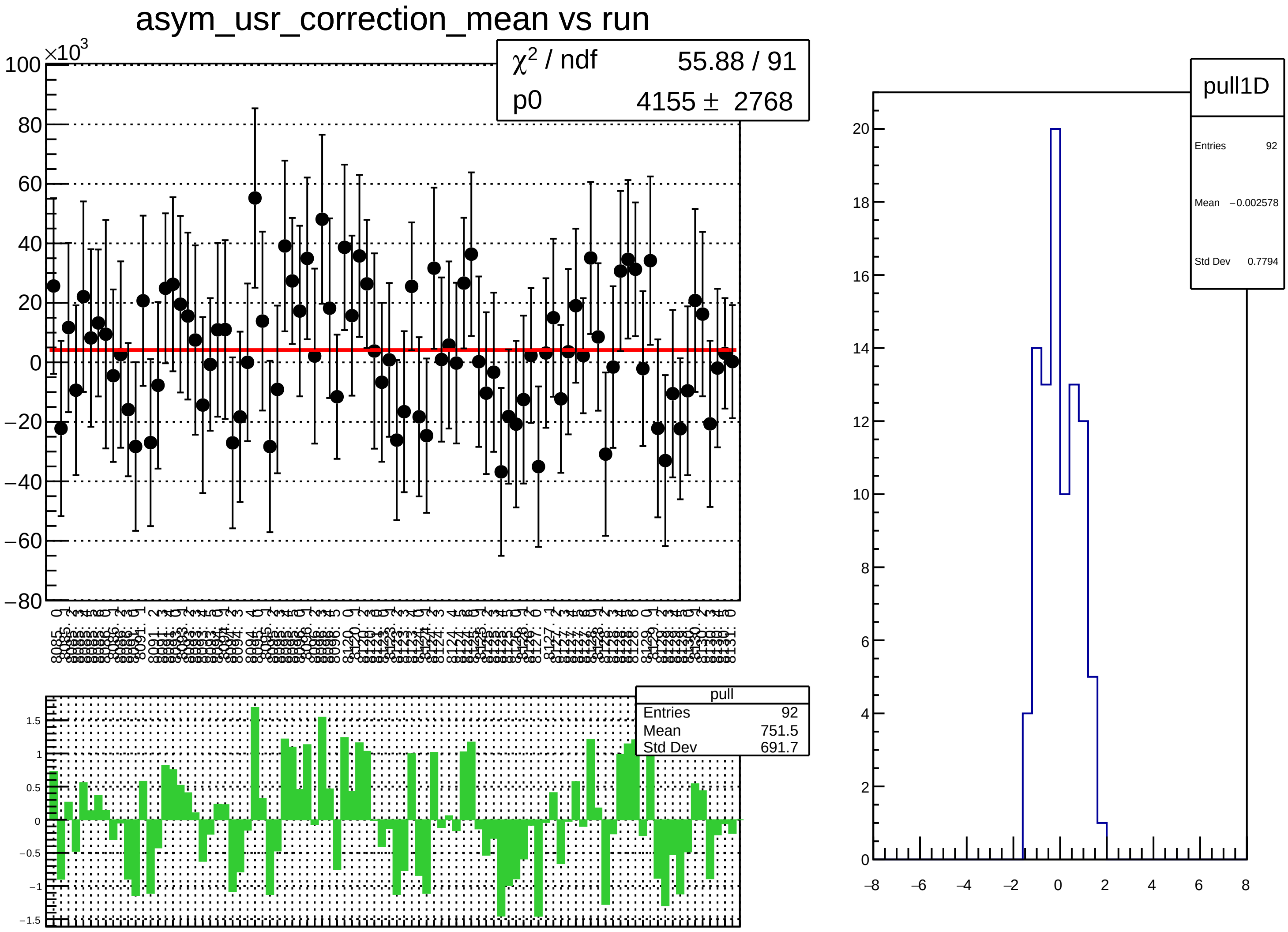


asym_usl_rms vs run
χ^2 / ndf 763.1 / 91
p0 1324 ± 0.9754
1450
1400
1350
1300
1250

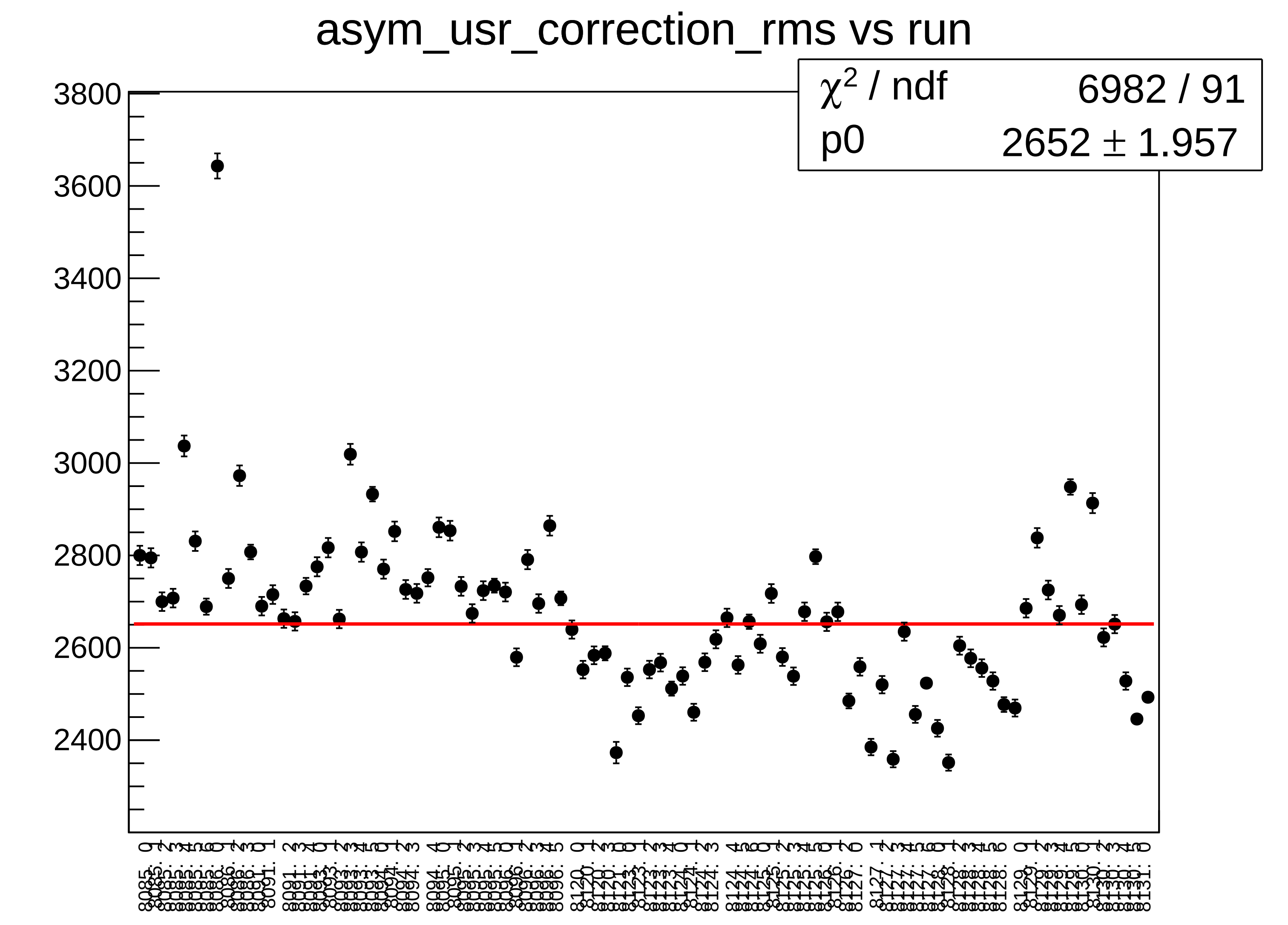


reg_asym_usr_mean vs run
χ2 / ndf 100.4 / 91
p0 −4451 ± 1114
30000
20000
10000
0
−10000
−20000
−30000
−40000
−50000
pull
Entries 92
Mean −97.67
Std Dev 86.56
pull1D
Entries 92
Mean 0.01029
Std Dev 1.045

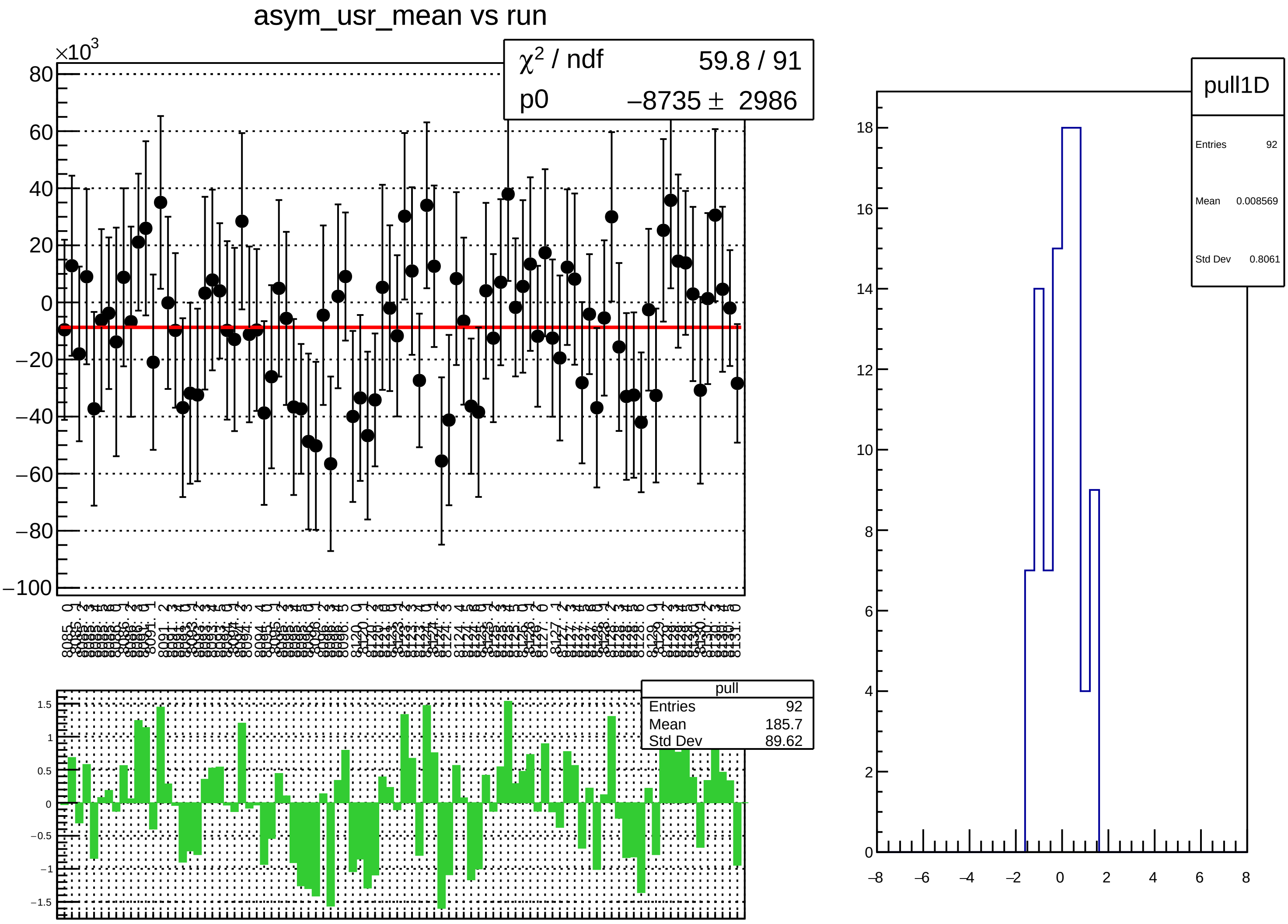

reg_asym_usr_rms vs run
χ^2 / ndf 129.8 / 91
p0 1069 ± 0.7876
1110
1100
1090
1080
1070
1060
1050
1040
1030



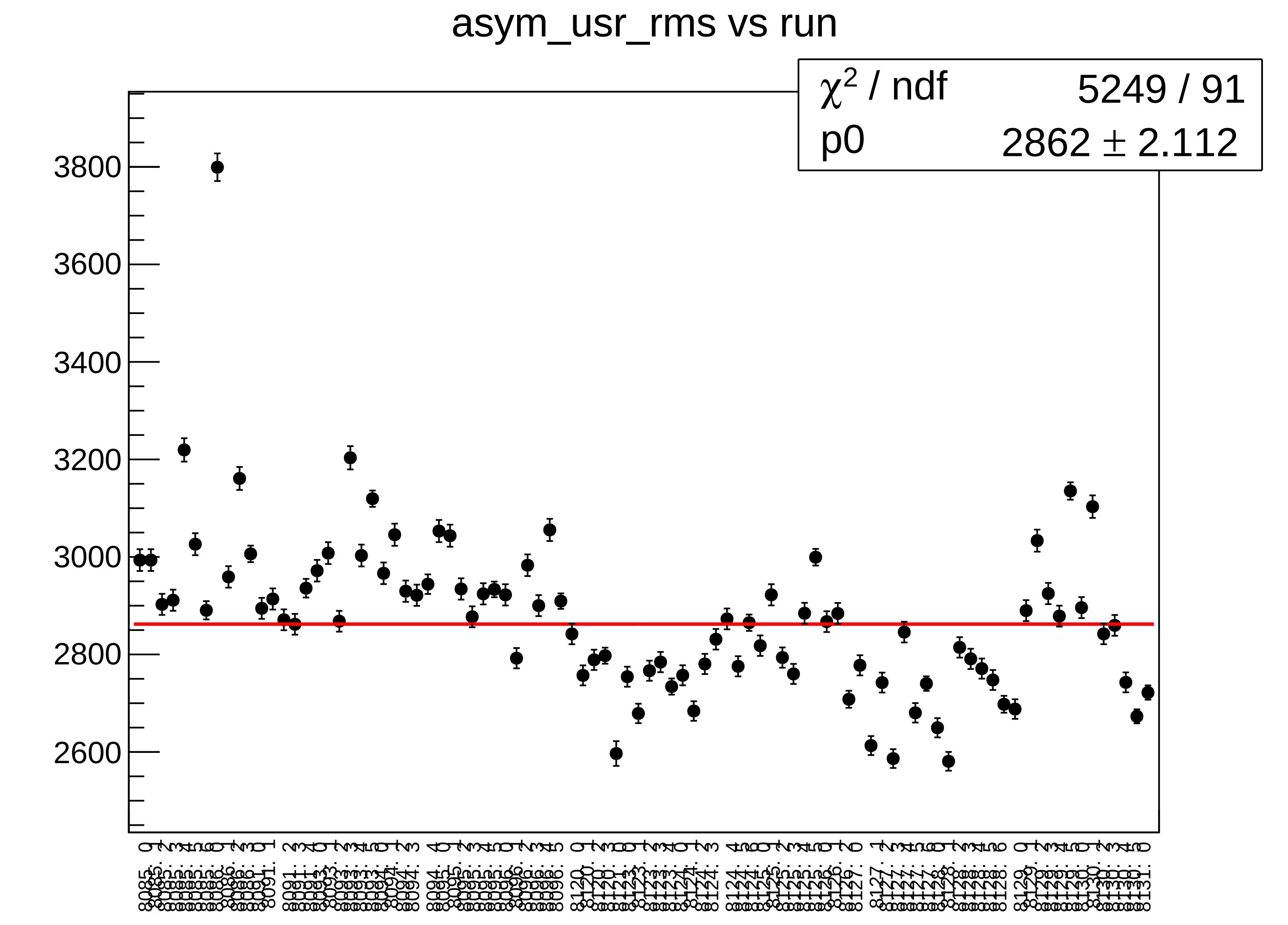
asym_usr_correction_mean vs run
χ^2 / ndf 55.88 / 91
p0 4155 ± 2768
×10^3
pull
Entries 92
Mean 751.5
Std Dev 691.7
pull1D
Entries 92
Mean −0.002578
Std Dev 0.7794



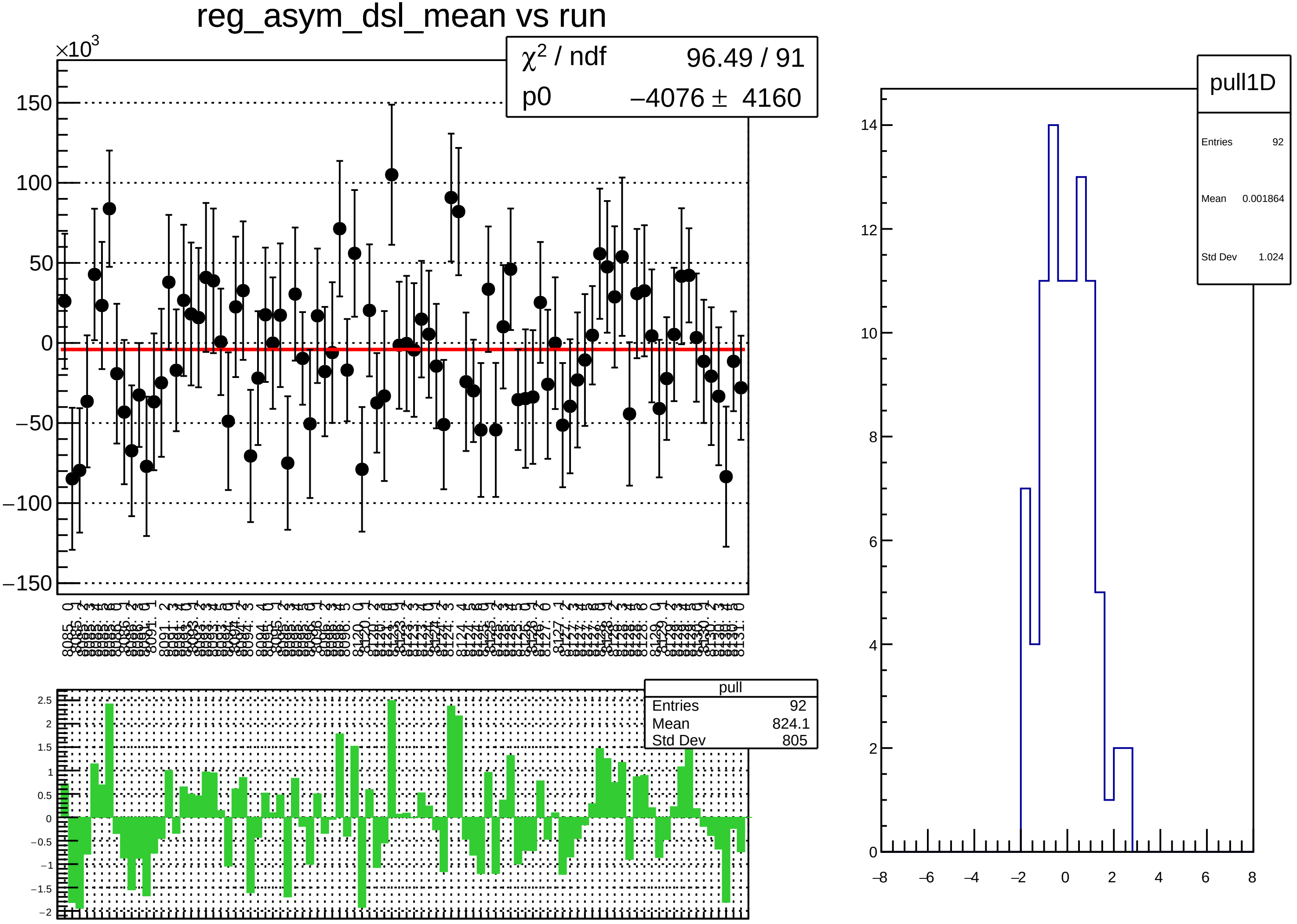
asym_usr_correction_rms vs run
χ2 / ndf 6982 / 91
p0 2652 ± 1.957



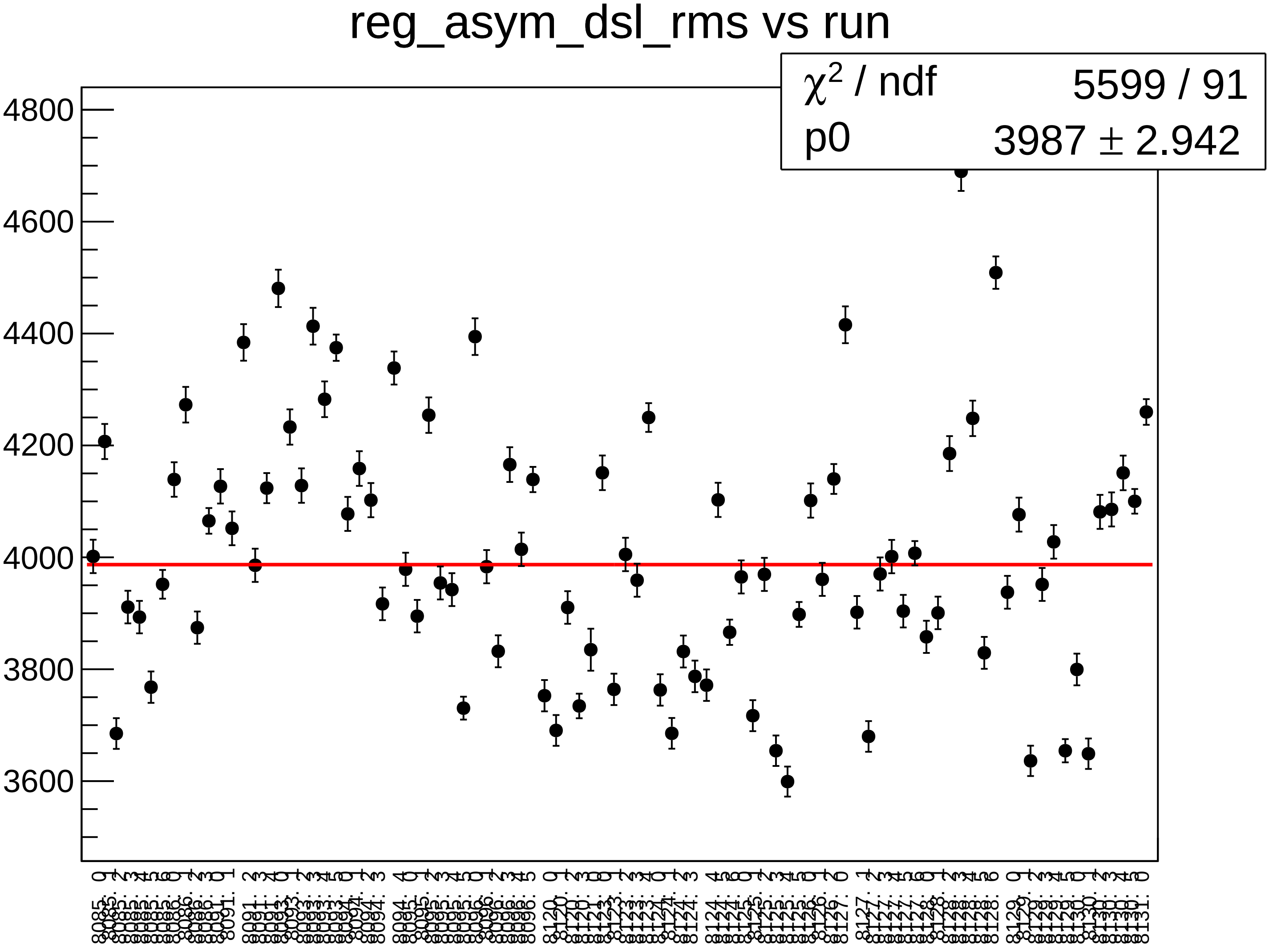
asym_usr_mean vs run
×10^3
χ2 / ndf 59.8 / 91
p0 −8735 ± 2986
80
60
40
20
0
−20
−40
−60
−80
−100
pull
Entries 92
Mean 185.7
Std Dev 89.62
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.008569
Std Dev 0.8061
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



asym_usr_rms vs run
χ^2 / ndf 5249 / 91
p0 2862 ± 2.112
3800
3600
3400
3200
3000
2800
2600

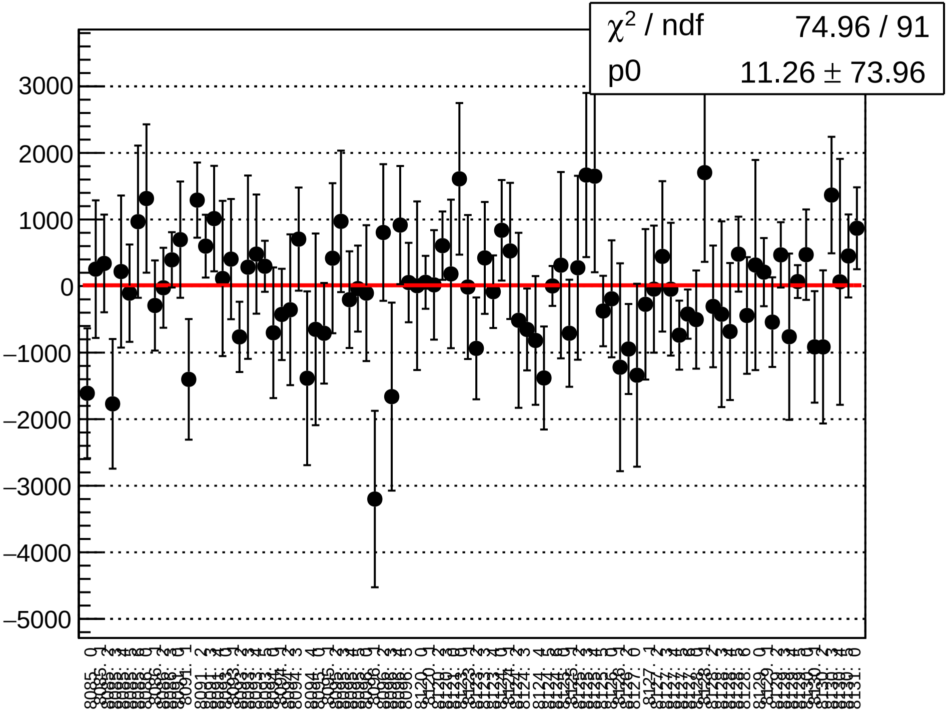


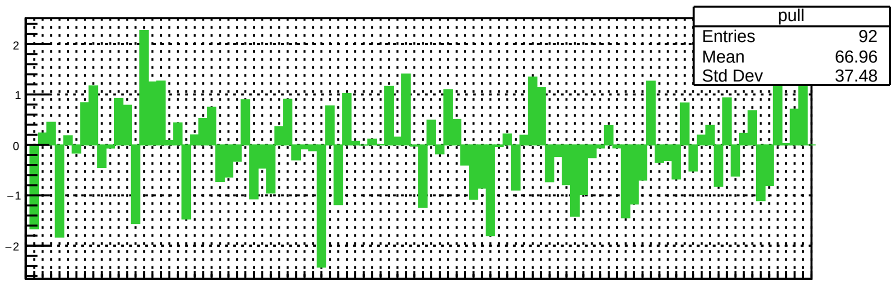
reg_asym_dsl_mean vs run
$\times10^3$
χ^2 / ndf 96.49 / 91
p0 −4076 ± 4160
150
100
50
0
−50
−100
−150
pull
Entries 92
Mean 824.1
Std Dev 805
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.001864
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

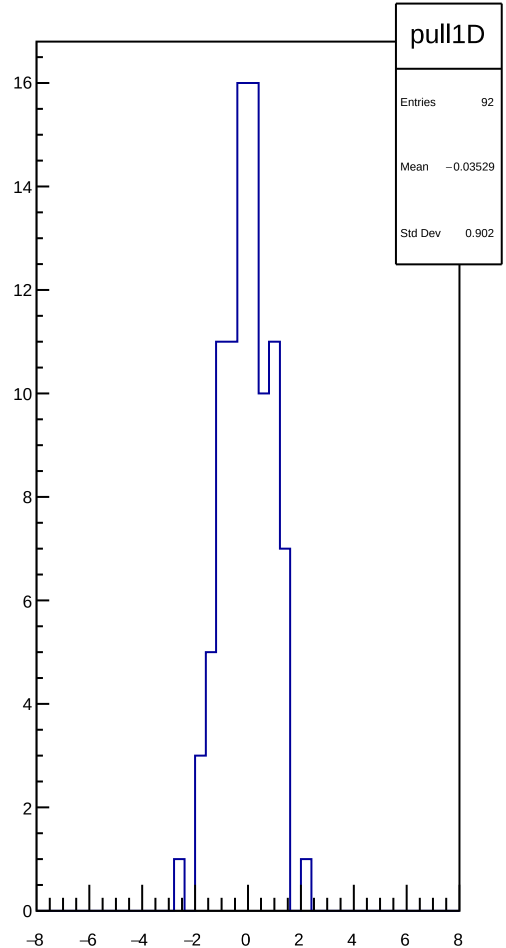


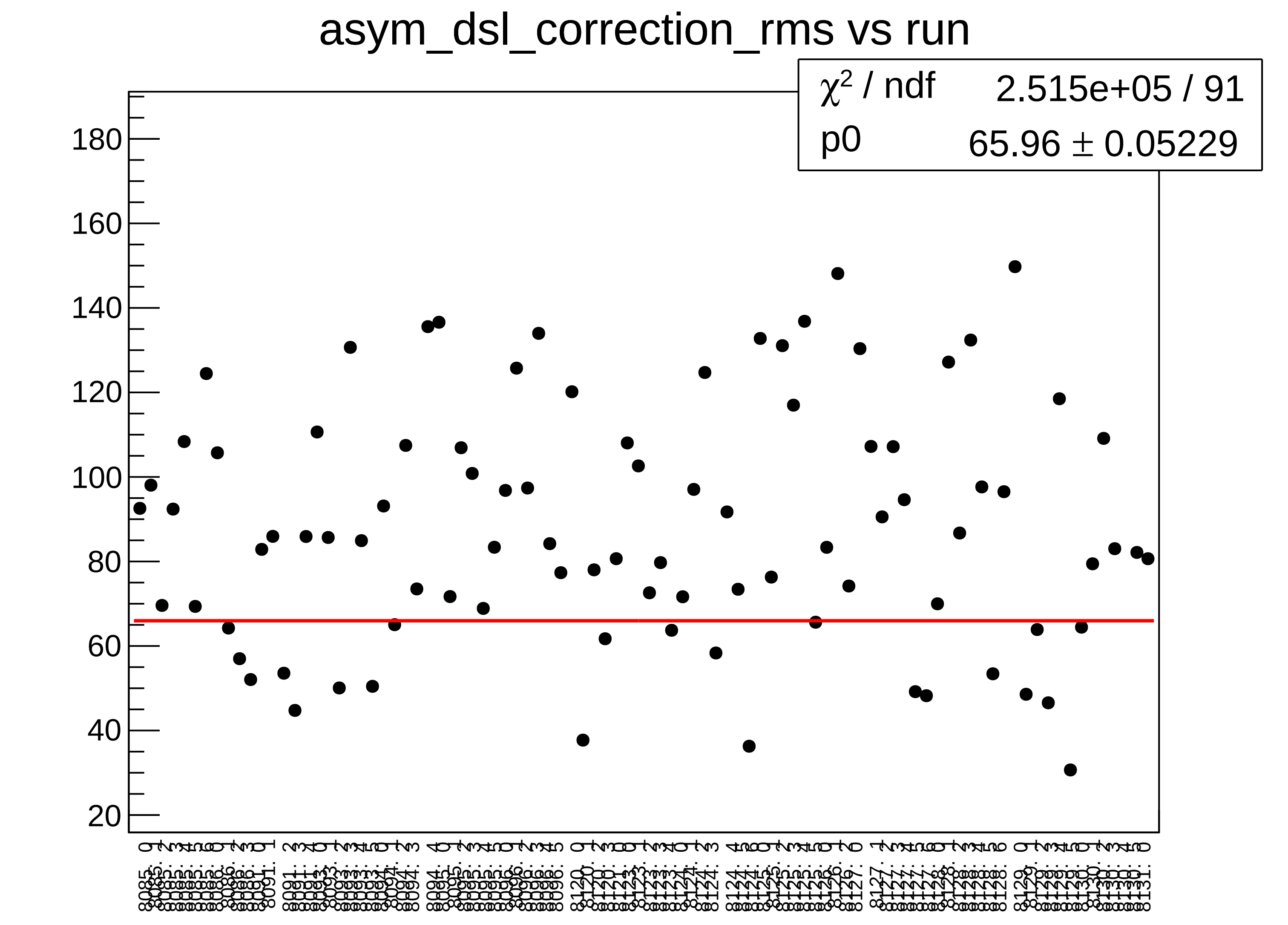
reg_asym_dsl_rms vs run
χ2 / ndf 5599 / 91
p0 3987 ± 2.942
4800
4600
4400
4200
4000
3800
3600

asym_dsl_correction_mean vs run

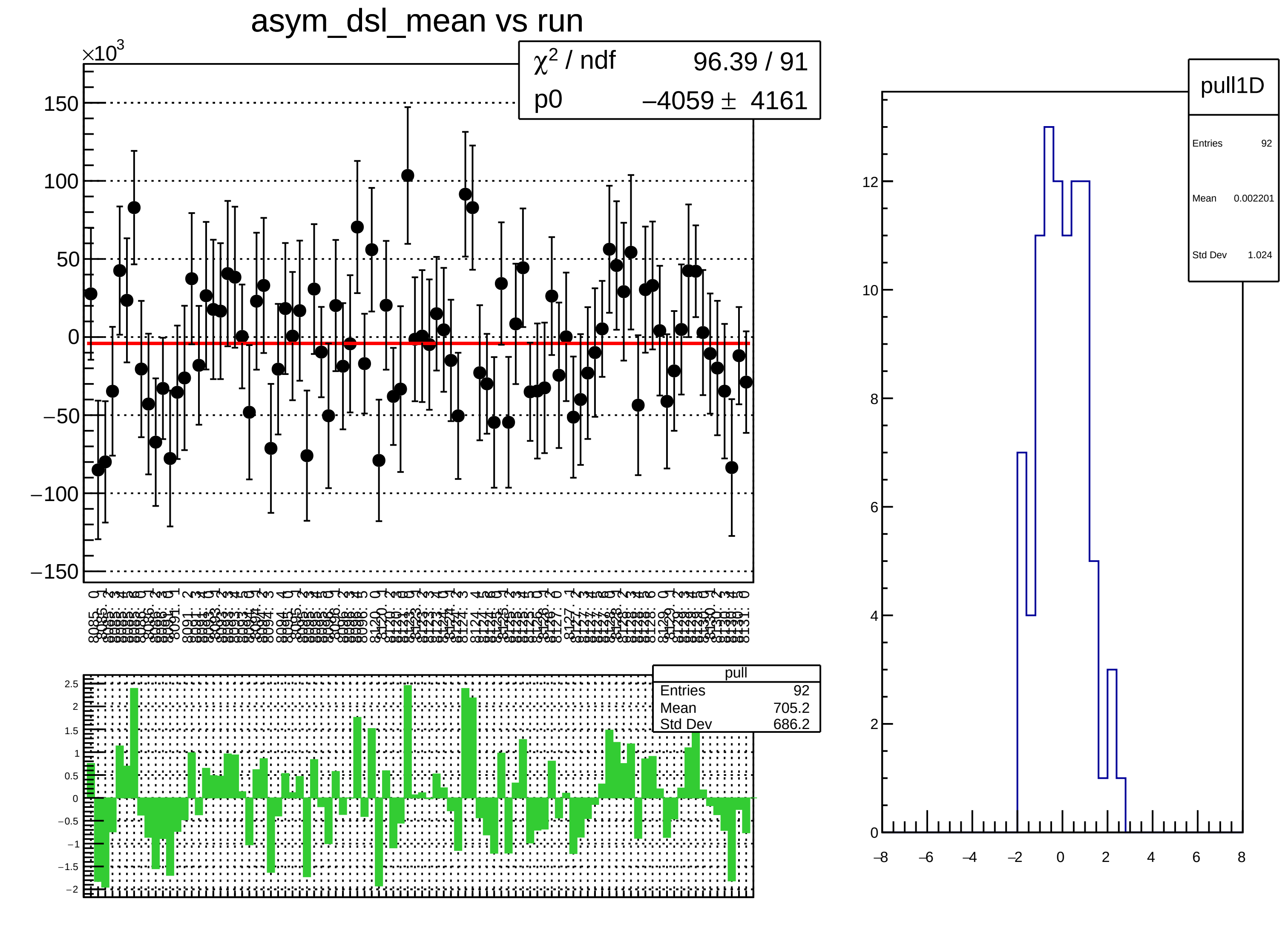


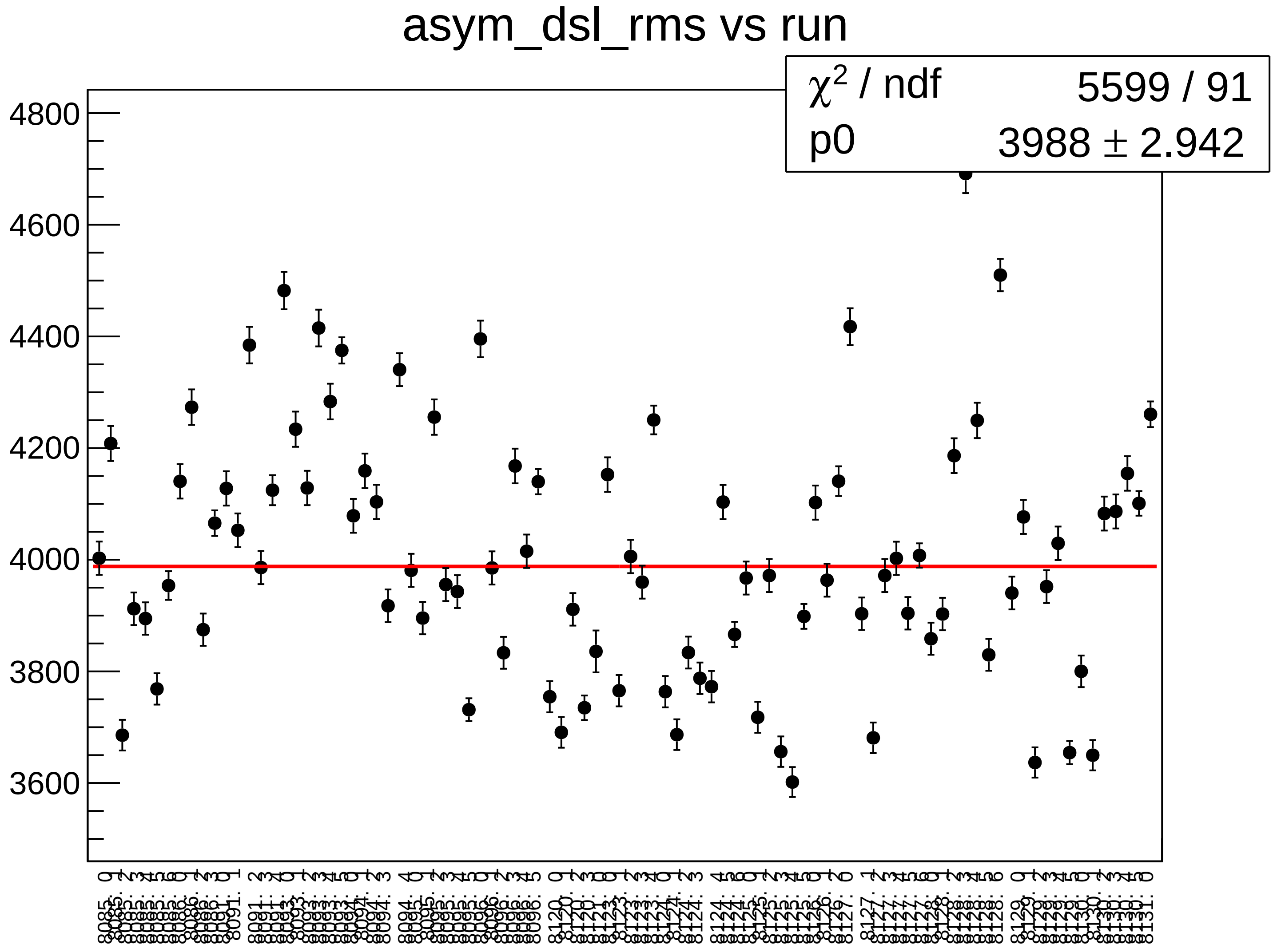


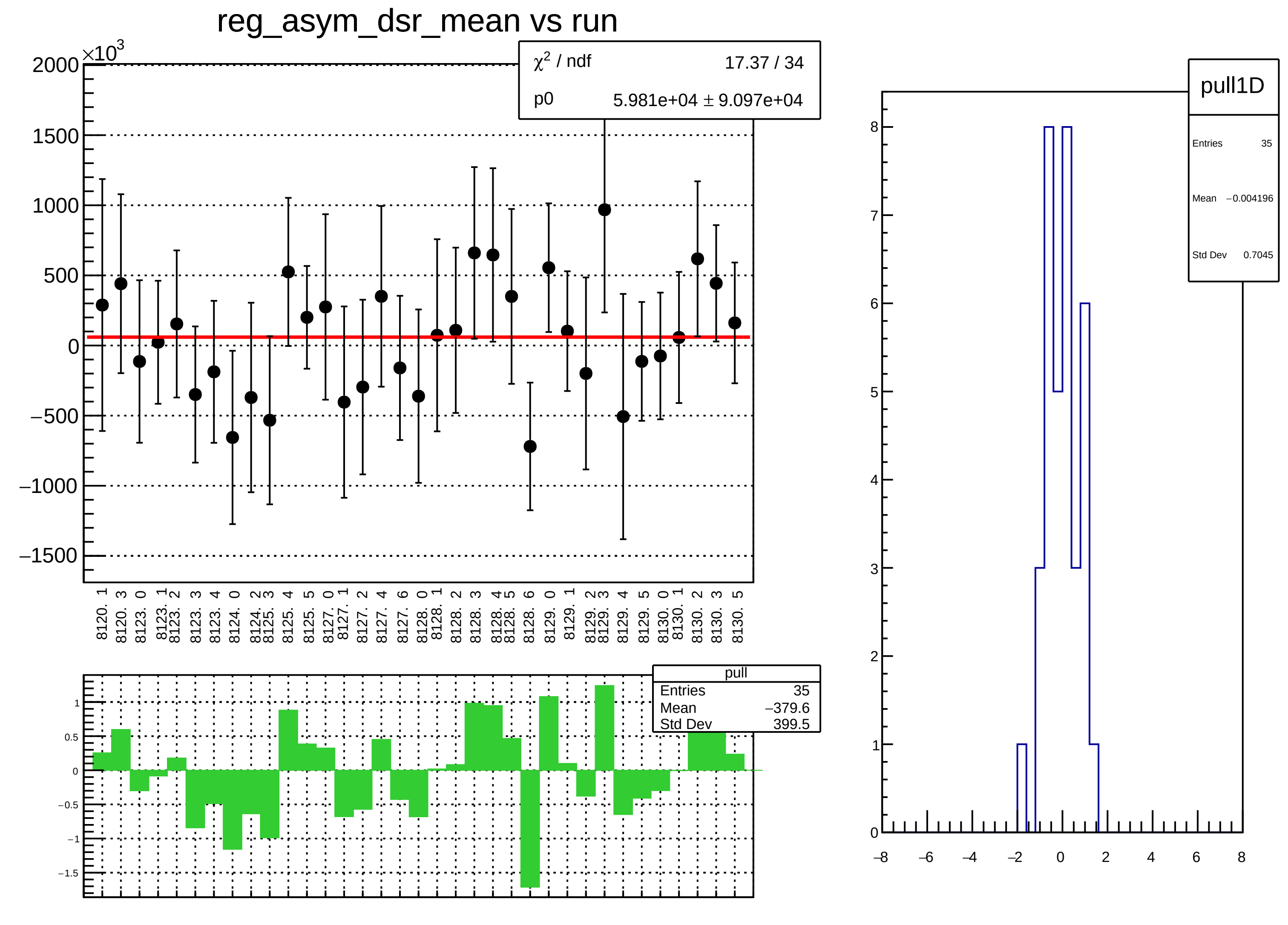


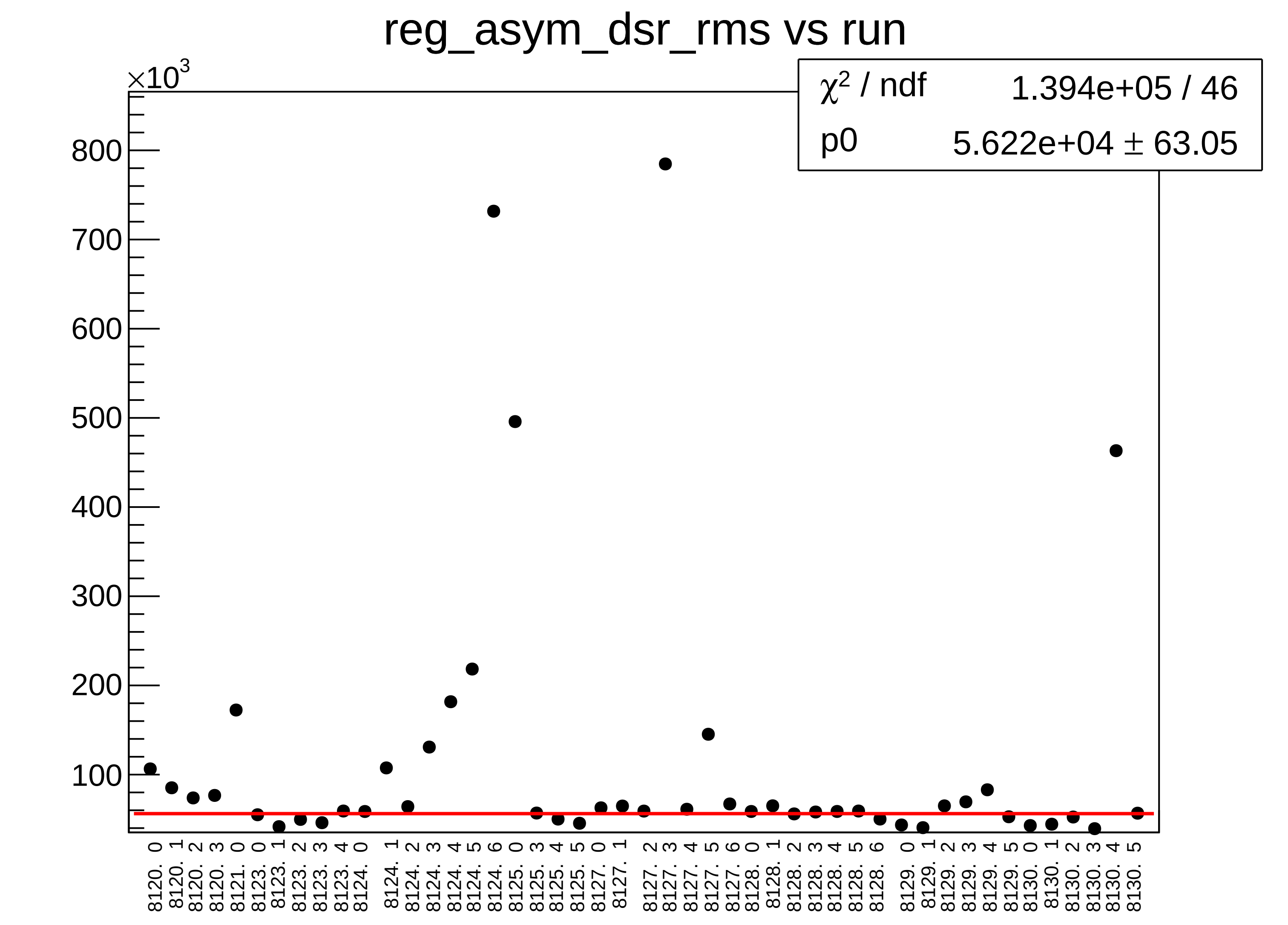


asym_dsl_correction_rms vs run
χ2 / ndf 2.515e+05 / 91
p0 65.96 ± 0.05229
180
160
140
120
100
80
60
40
20

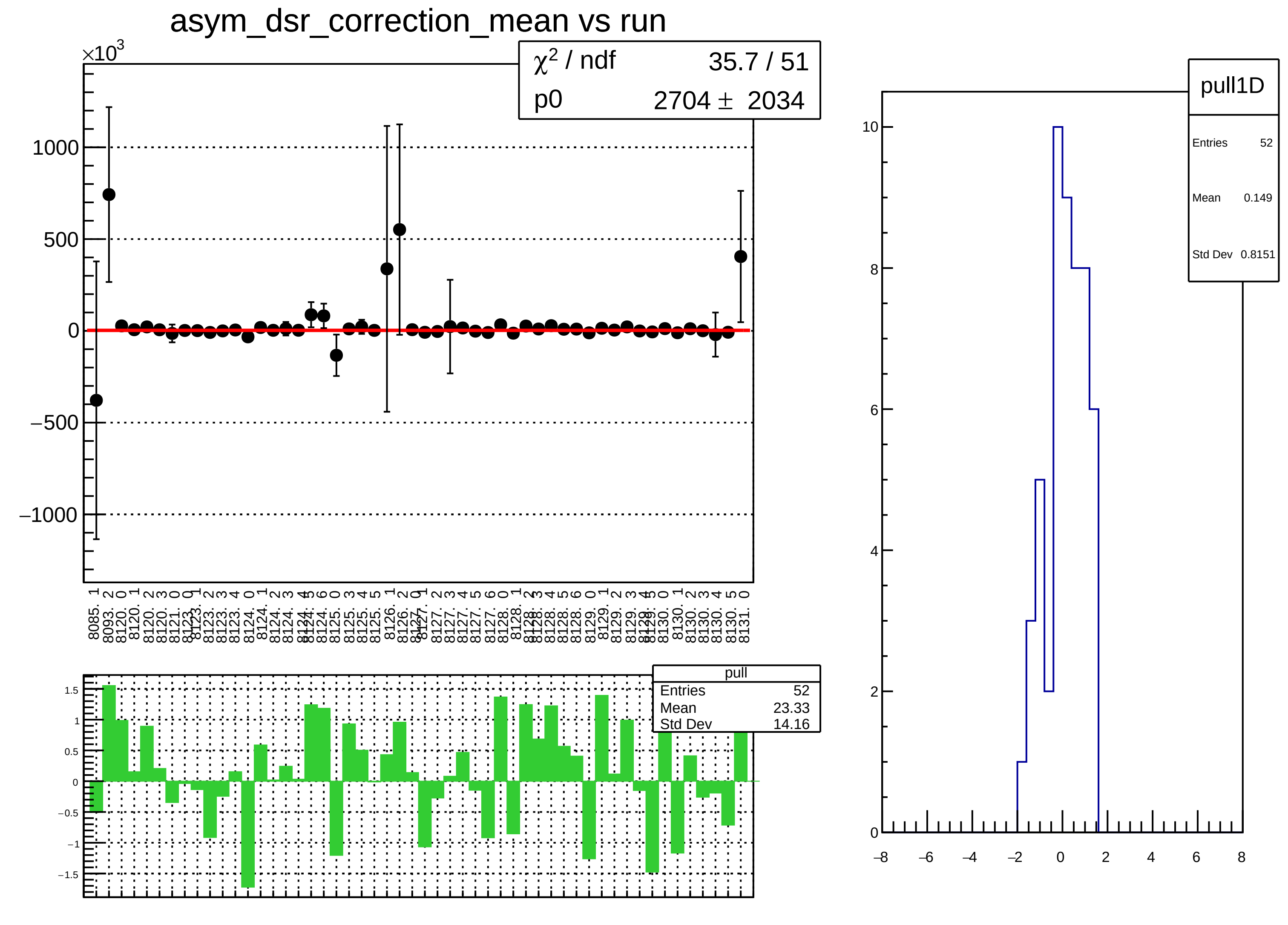

asym_dsl_mean vs run
$\times10^3$
χ^2 / ndf 96.39 / 91
p0 −4059 ± 4161
pull
Entries 92
Mean 705.2
Std Dev 686.2
pull1D
Entries 92
Mean 0.002201
Std Dev 1.024


asym_dsl_rms vs run
χ2 / ndf 5599 / 91
p0 3988 ± 2.942
4800
4600
4400
4200
4000
3800
3600

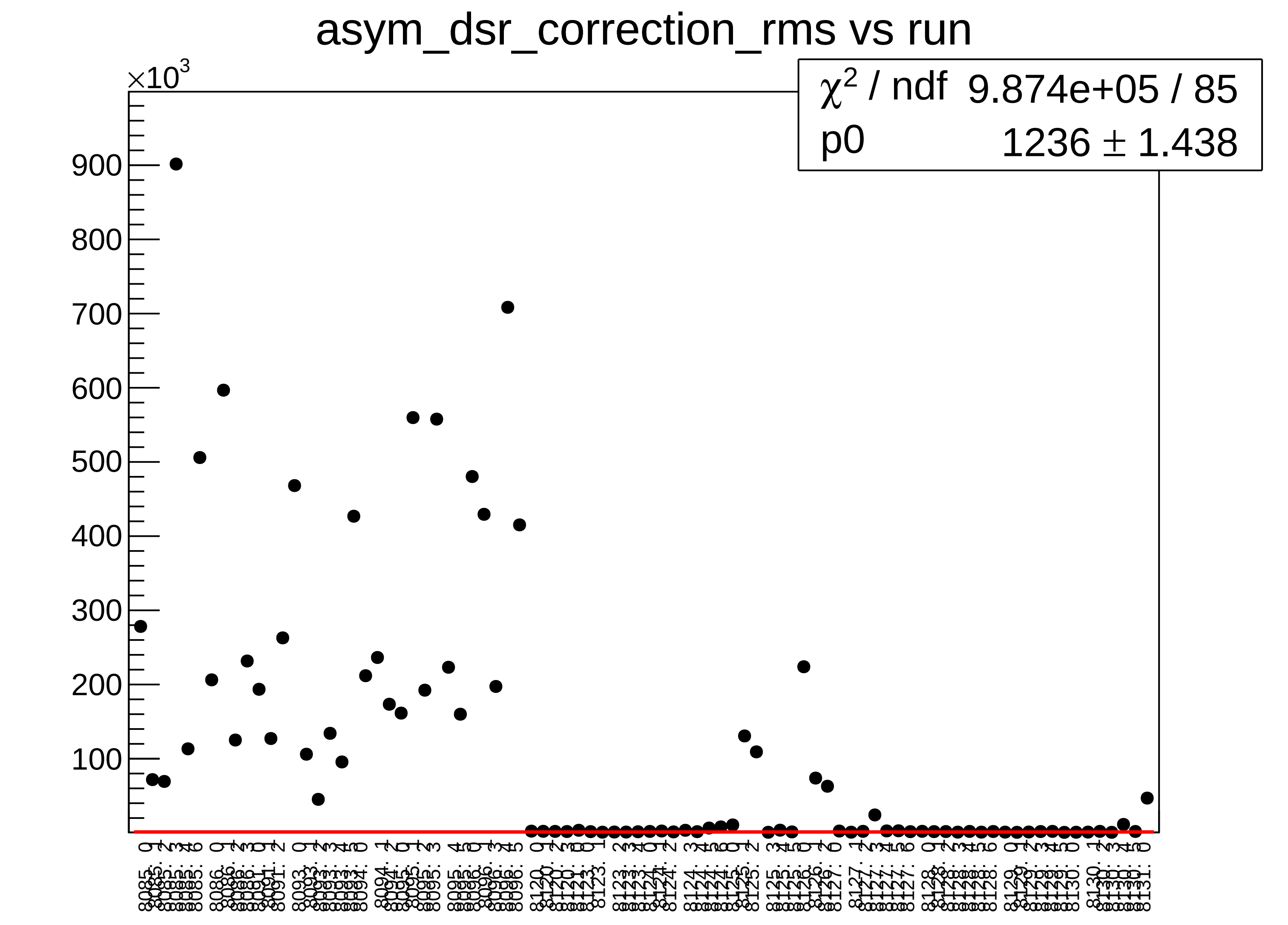

reg_asym_dsr_mean vs run
×10^3
2000
1500
1000
500
0
−500
−1000
−1500
χ2 / ndf 17.37 / 34
p0 5.981e+04 ± 9.097e+04
8120. 1
8120. 3
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 2
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 4
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 5
pull
Entries 35
Mean −379.6
Std Dev 399.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 35
Mean −0.004196
Std Dev 0.7045
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8



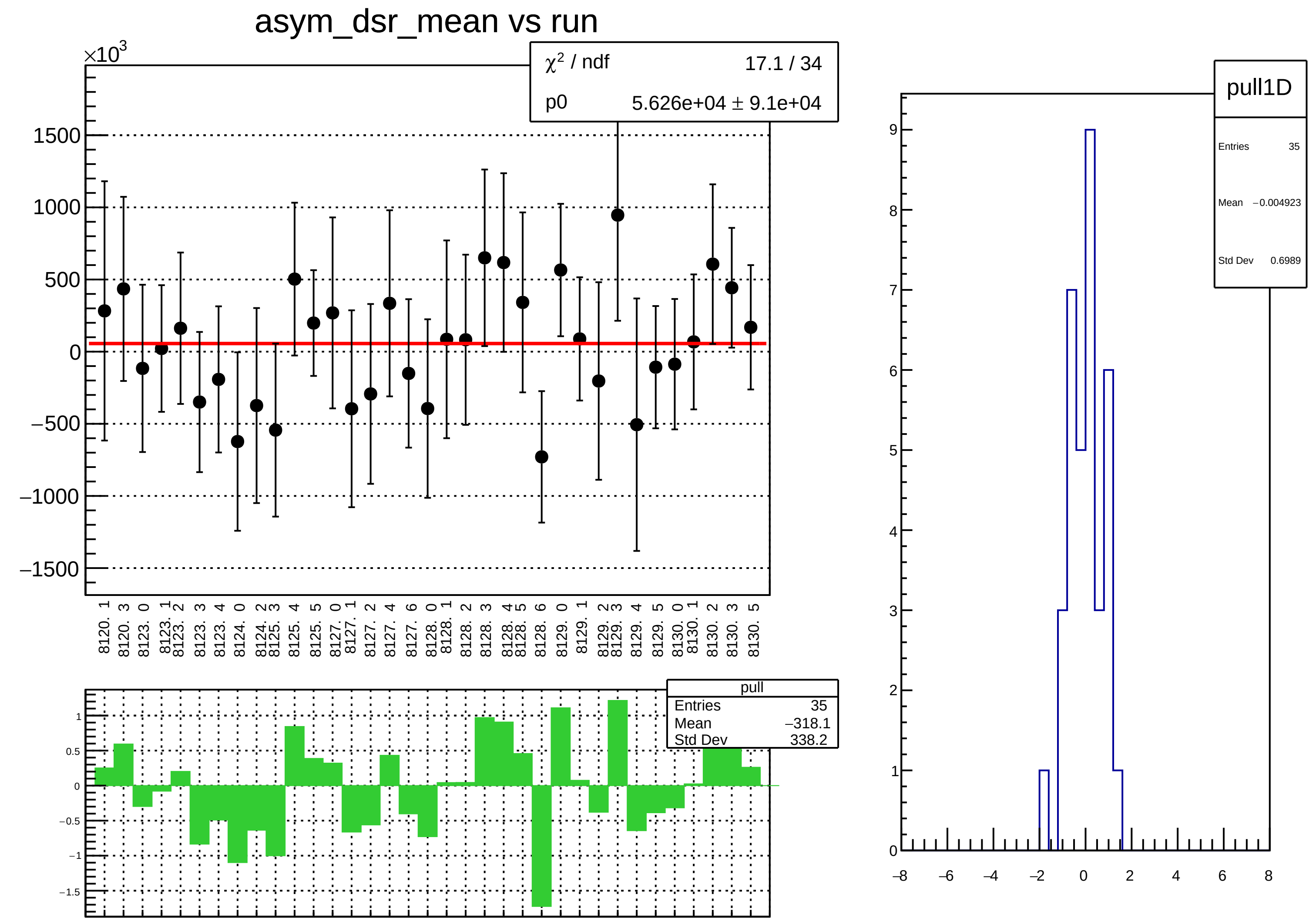
reg_asym_dsr_rms vs run
$\times 10^3$
χ^2 / ndf 1.394e+05 / 46
p0 5.622e+04 ± 63.05
800
700
600
500
400
300
200
100
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5

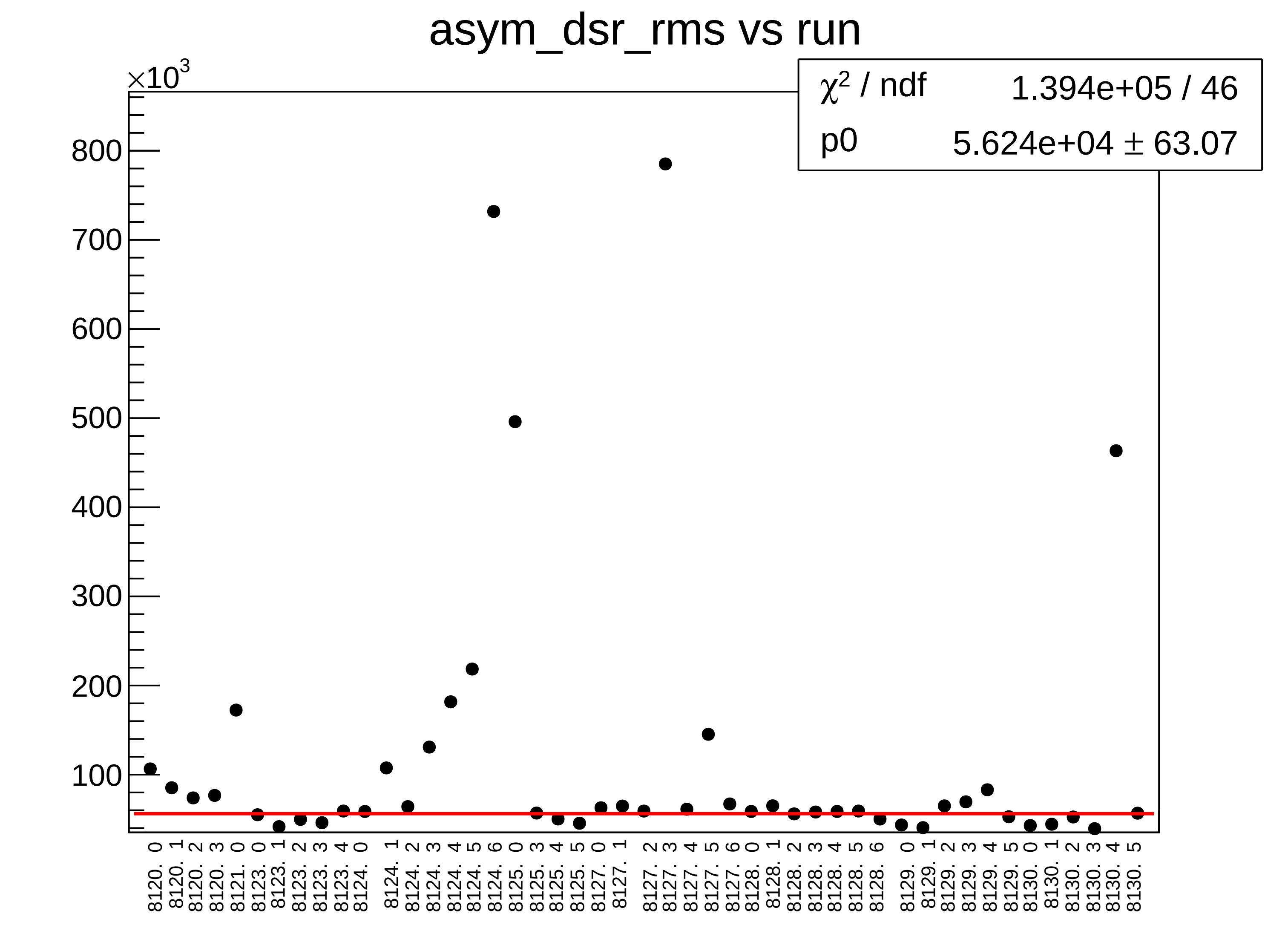


asym_dsr_correction_mean vs run
×10^3
χ2 / ndf 35.7 / 51
p0 2704 ± 2034
1000
500
0
−500
−1000
pull
Entries 52
Mean 23.33
Std Dev 14.16
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 52
Mean 0.149
Std Dev 0.8151
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

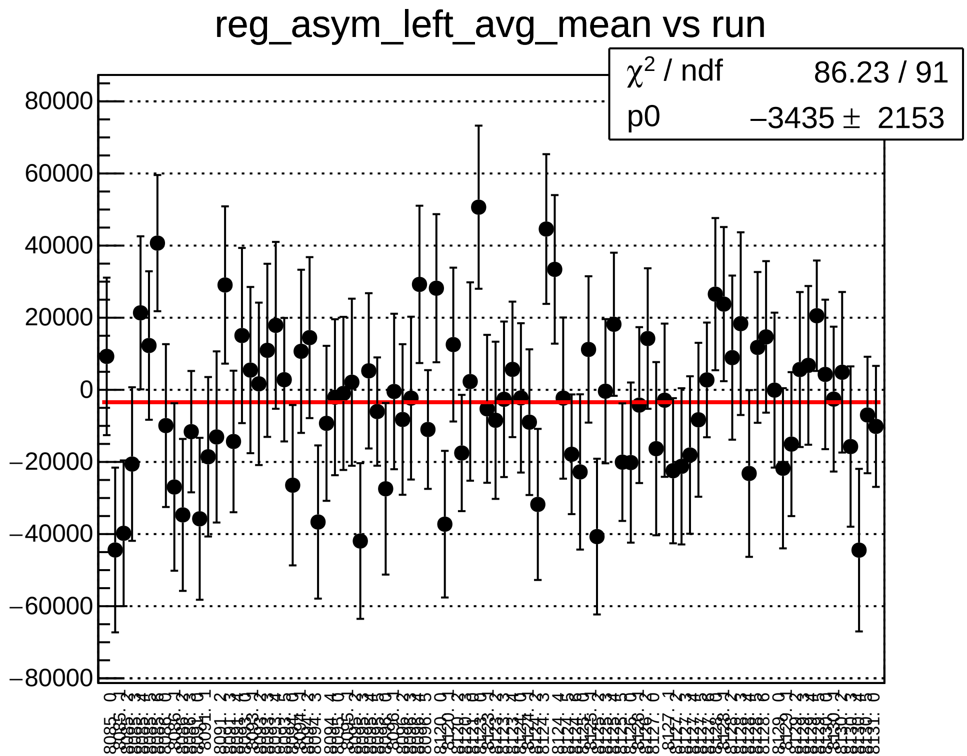


asym_dsr_correction_rms vs run
×10^3
χ^2 / ndf 9.874e+05 / 85
p0 1236 ± 1.438
900
800
700
600
500
400
300
200
100

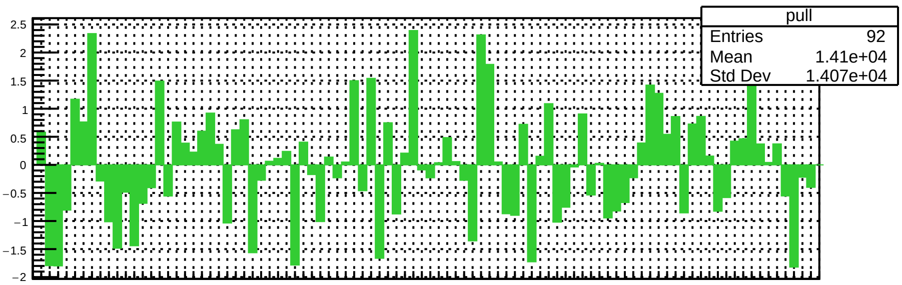

asym_dsr_mean vs run
χ^2 / ndf 17.1 / 34
p0 5.626e+04 ± 9.1e+04
×10^3
pull
Entries 35
Mean −318.1
Std Dev 338.2
pull1D
Entries 35
Mean −0.004923
Std Dev 0.6989



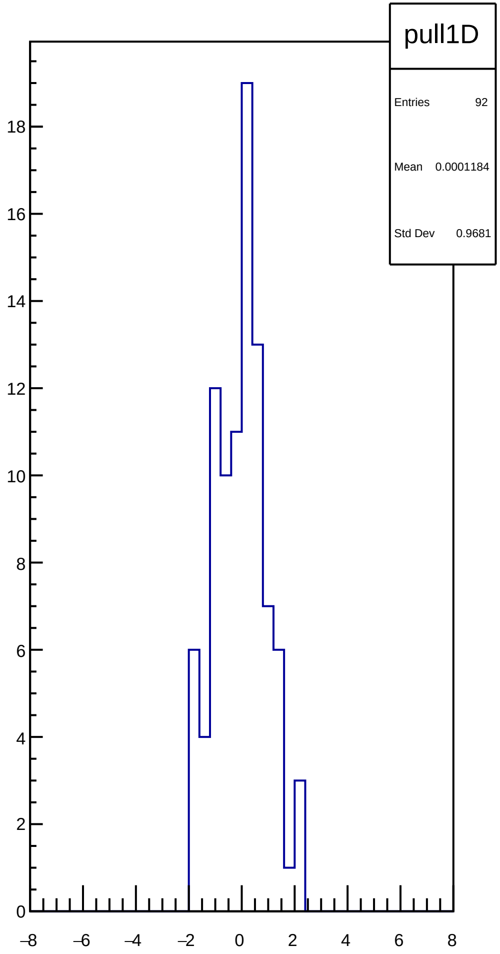
asym_dsr_rms vs run
×10^3
χ2 / ndf 1.394e+05 / 46
p0 5.624e+04 ± 63.07
800
700
600
500
400
300
200
100
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5



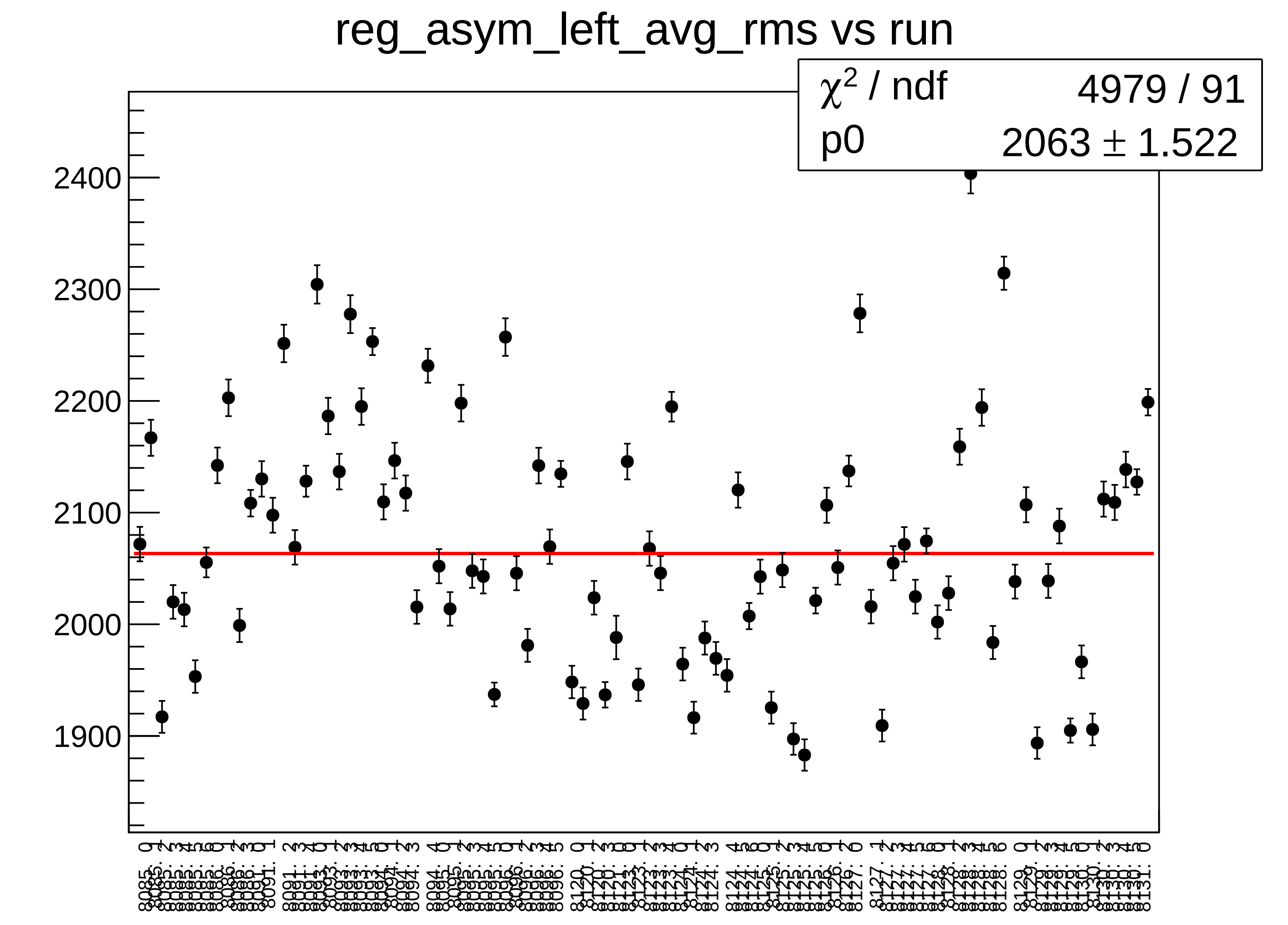
reg_asym_left_avg_mean vs run
χ^2 / ndf 86.23 / 91
p0 −3435 ± 2153
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000



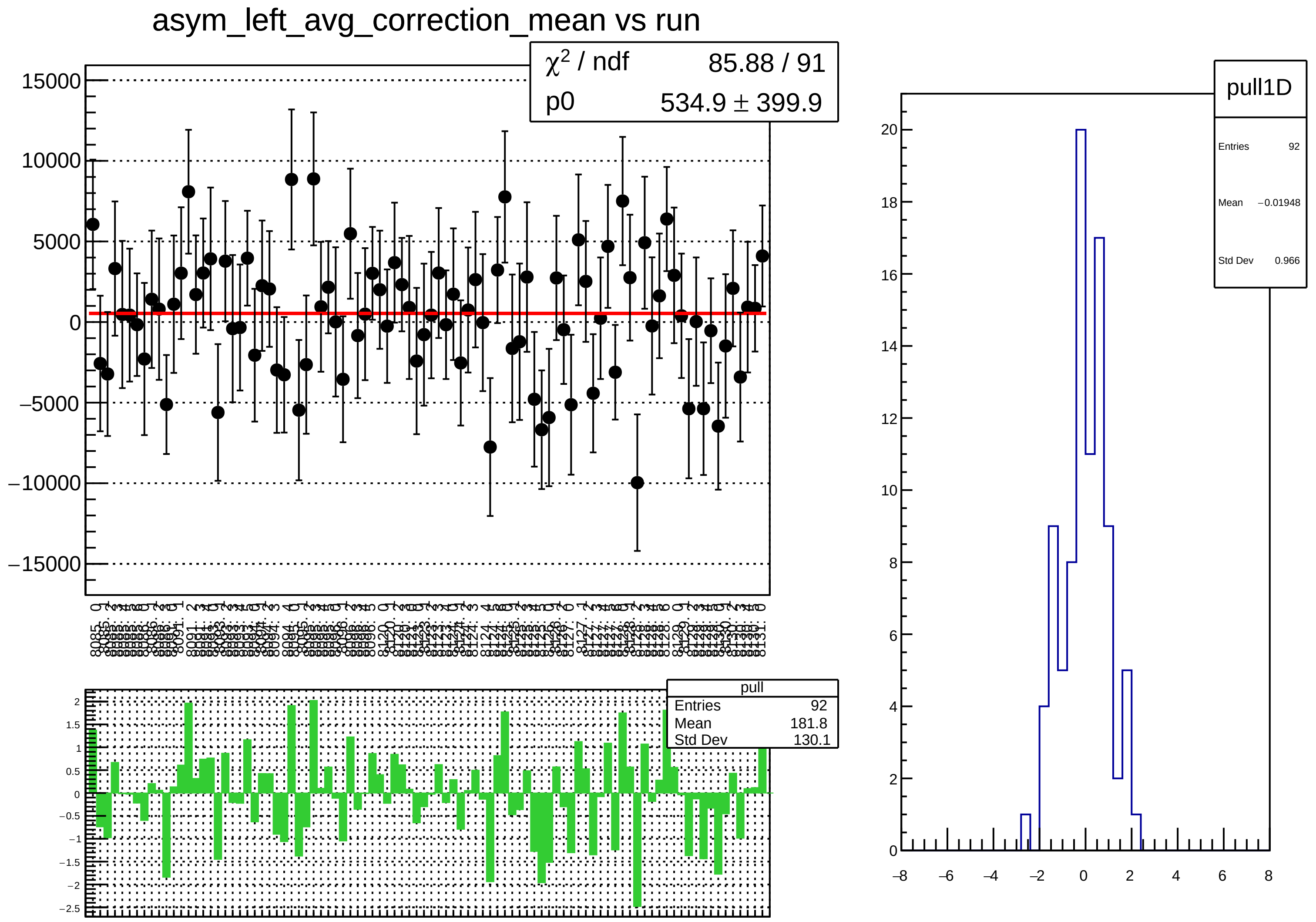
pull
Entries 92
Mean 1.41e+04
Std Dev 1.407e+04

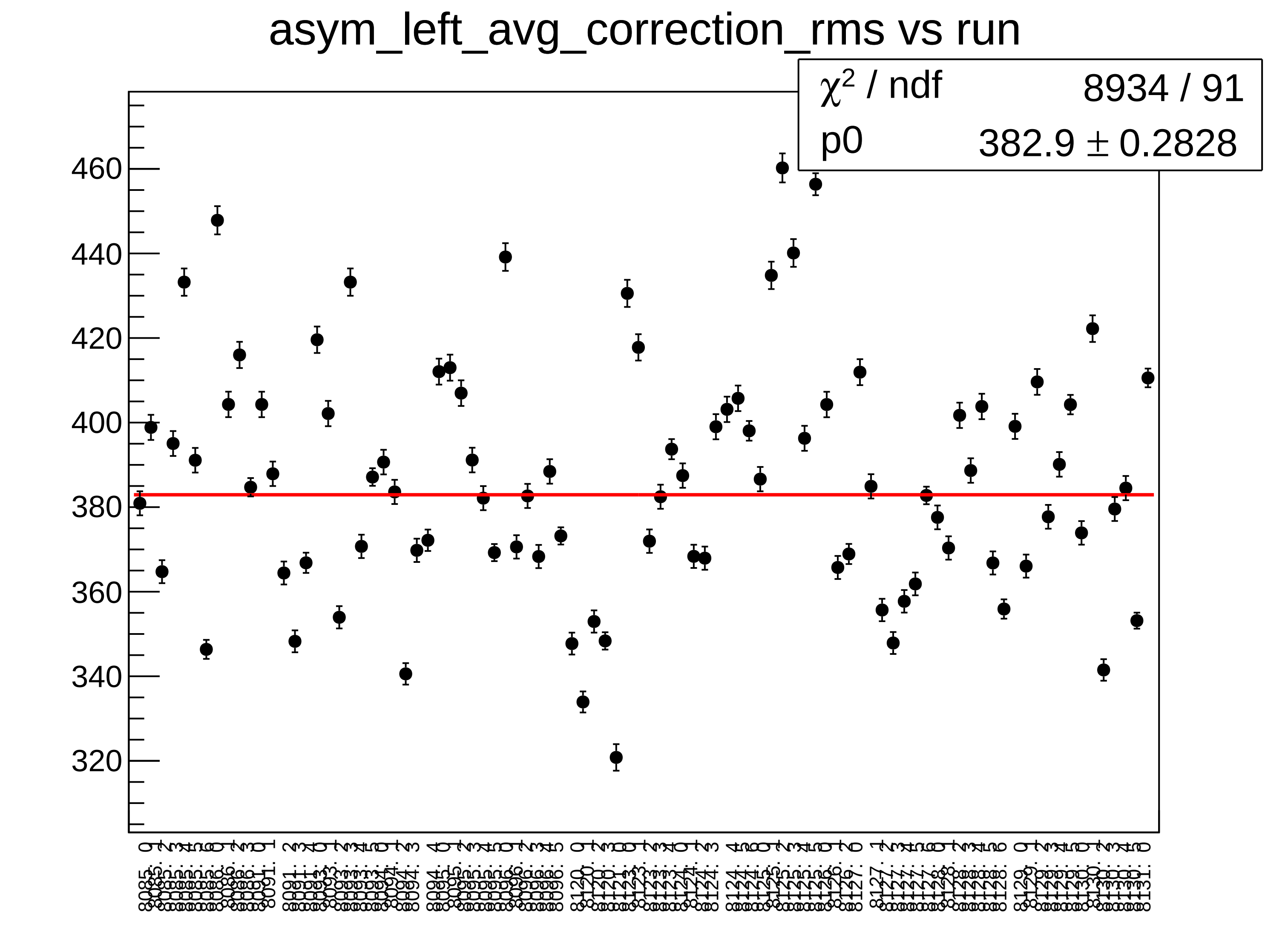


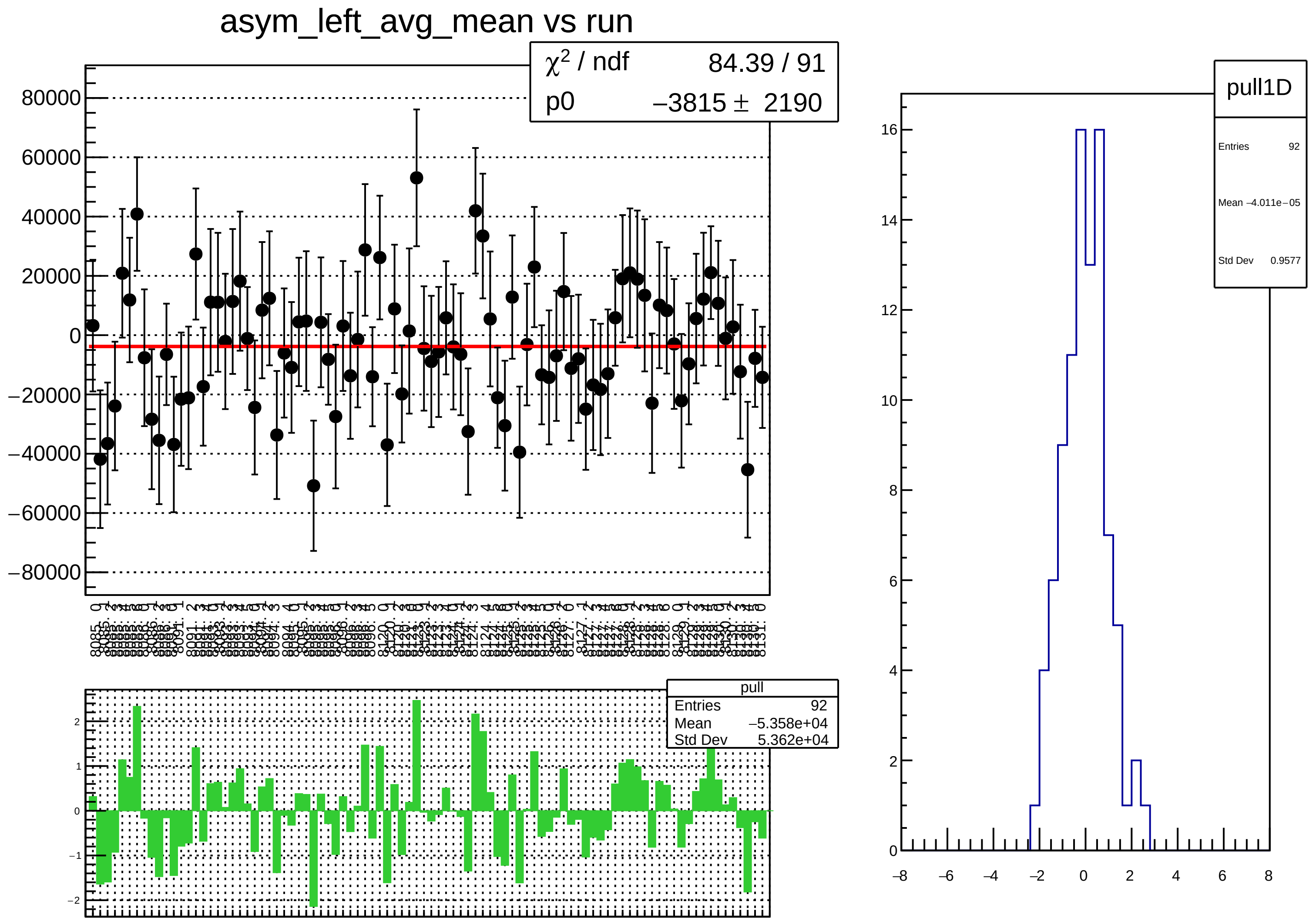
pull1D
Entries 92
Mean 0.0001184
Std Dev 0.9681



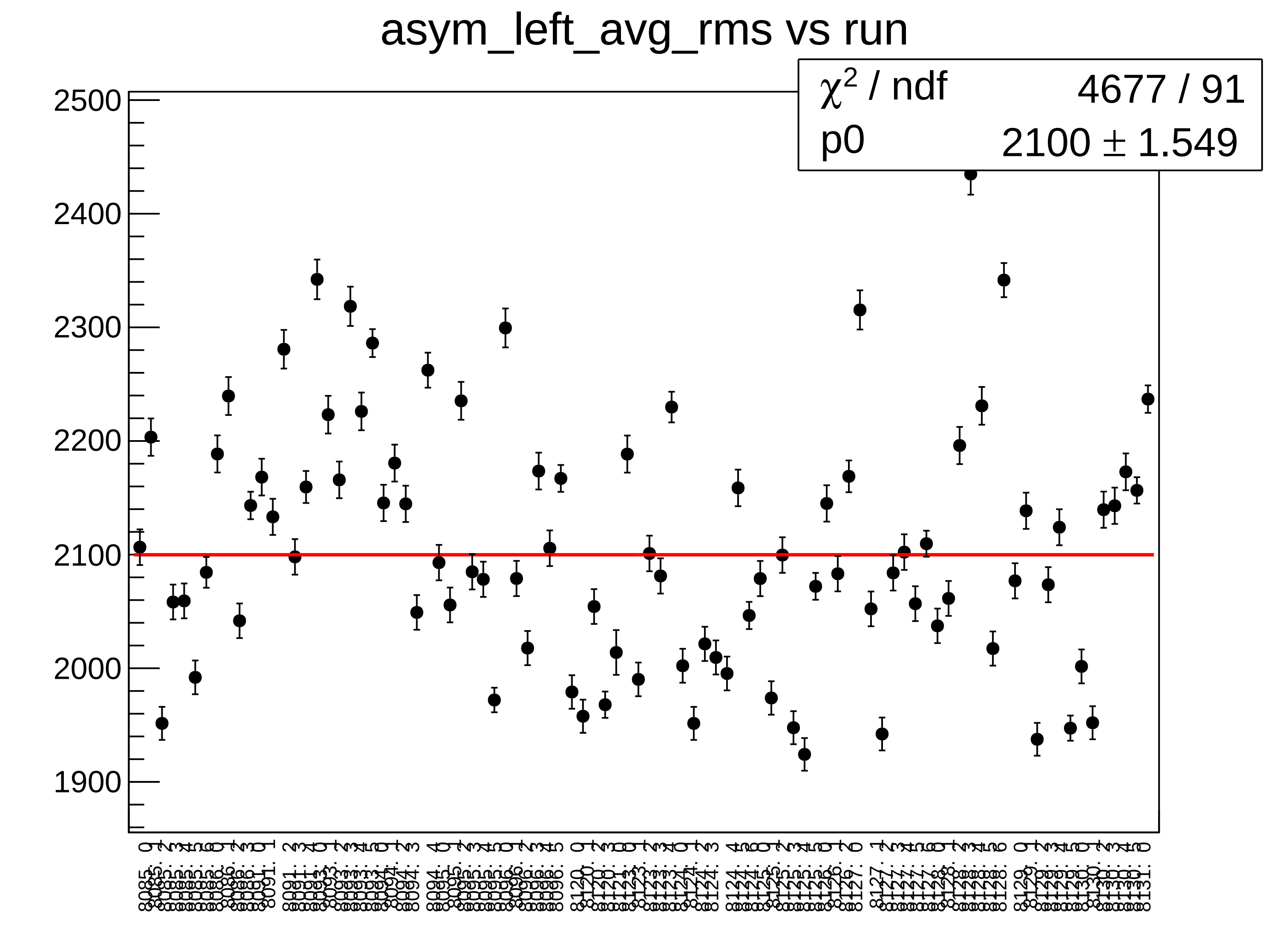
reg_asym_left_avg_rms vs run
χ^2 / ndf 4979 / 91
p0 2063 ± 1.522
2400
2300
2200
2100
2000
1900


asym_left_avg_correction_mean vs run
χ^2 / ndf 85.88 / 91
p0 534.9 ± 399.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean 181.8
Std Dev 130.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.01948
Std Dev 0.966
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

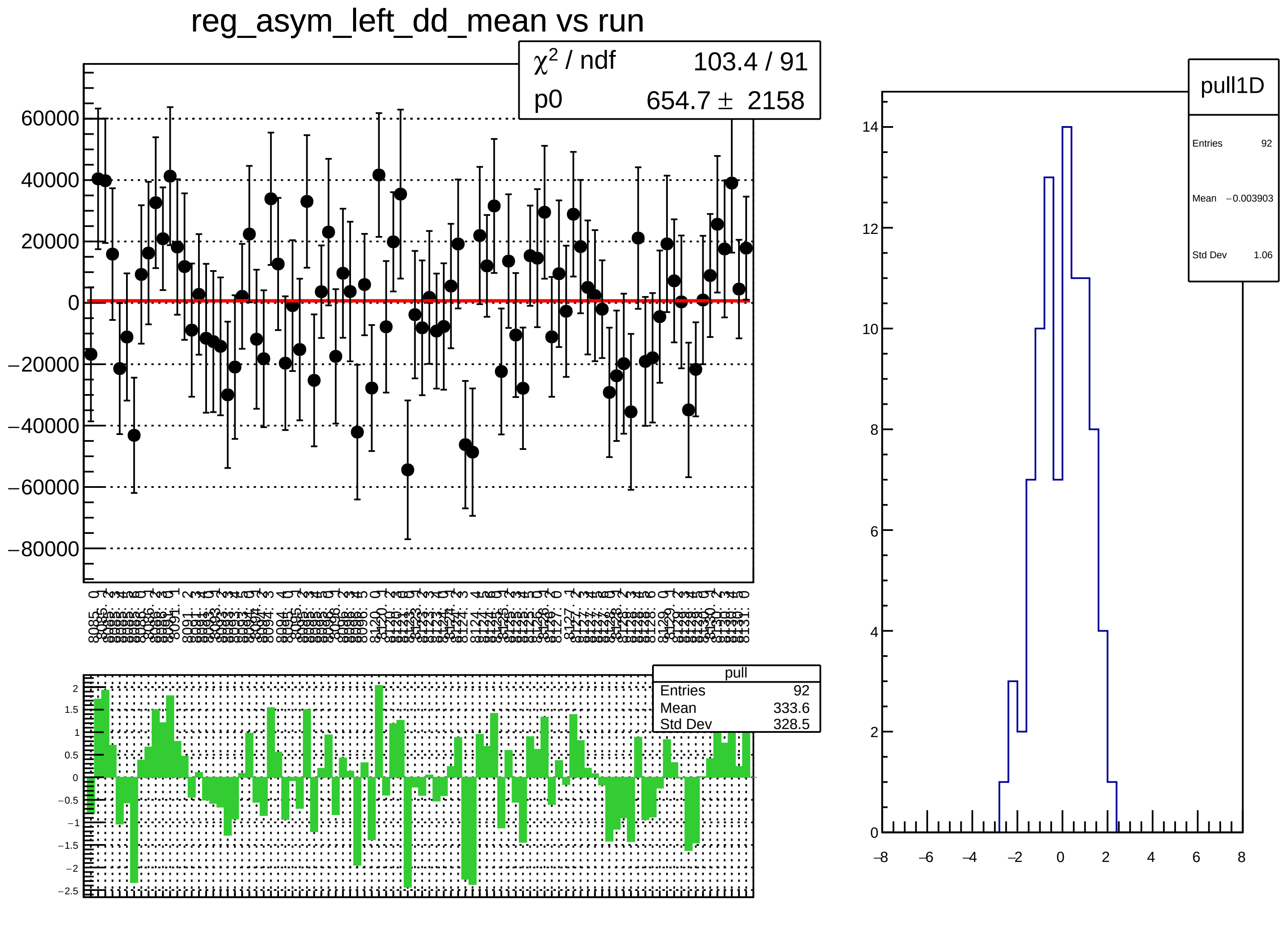

asym_left_avg_correction_rms vs run
χ2 / ndf 8934 / 91
p0 382.9 ± 0.2828

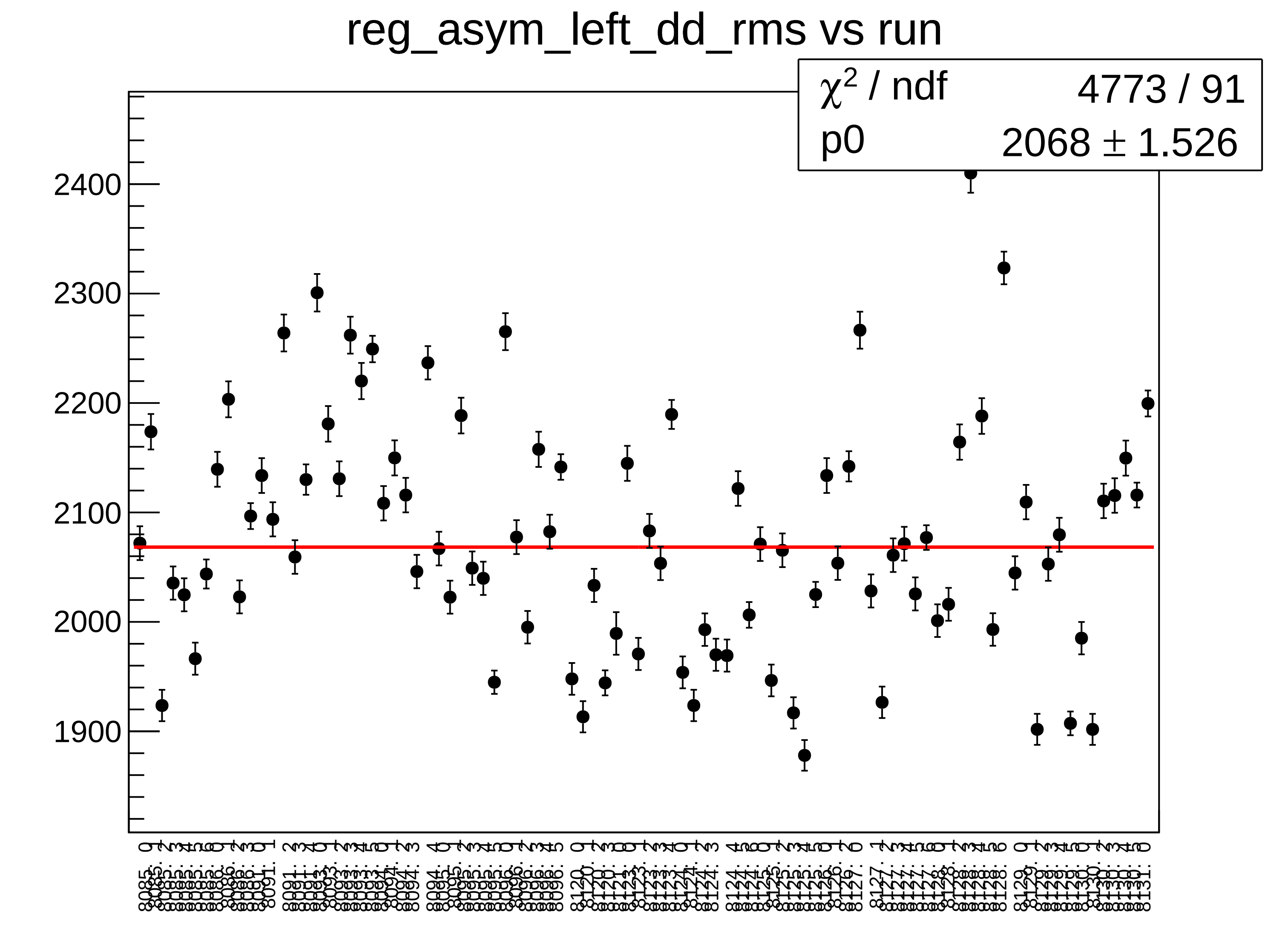


asym_left_avg_mean vs run
χ^2 / ndf 84.39 / 91
p0 −3815 ± 2190
pull
Entries 92
Mean −5.358e+04
Std Dev 5.362e+04
pull1D
Entries 92
Mean −4.011e−05
Std Dev 0.9577

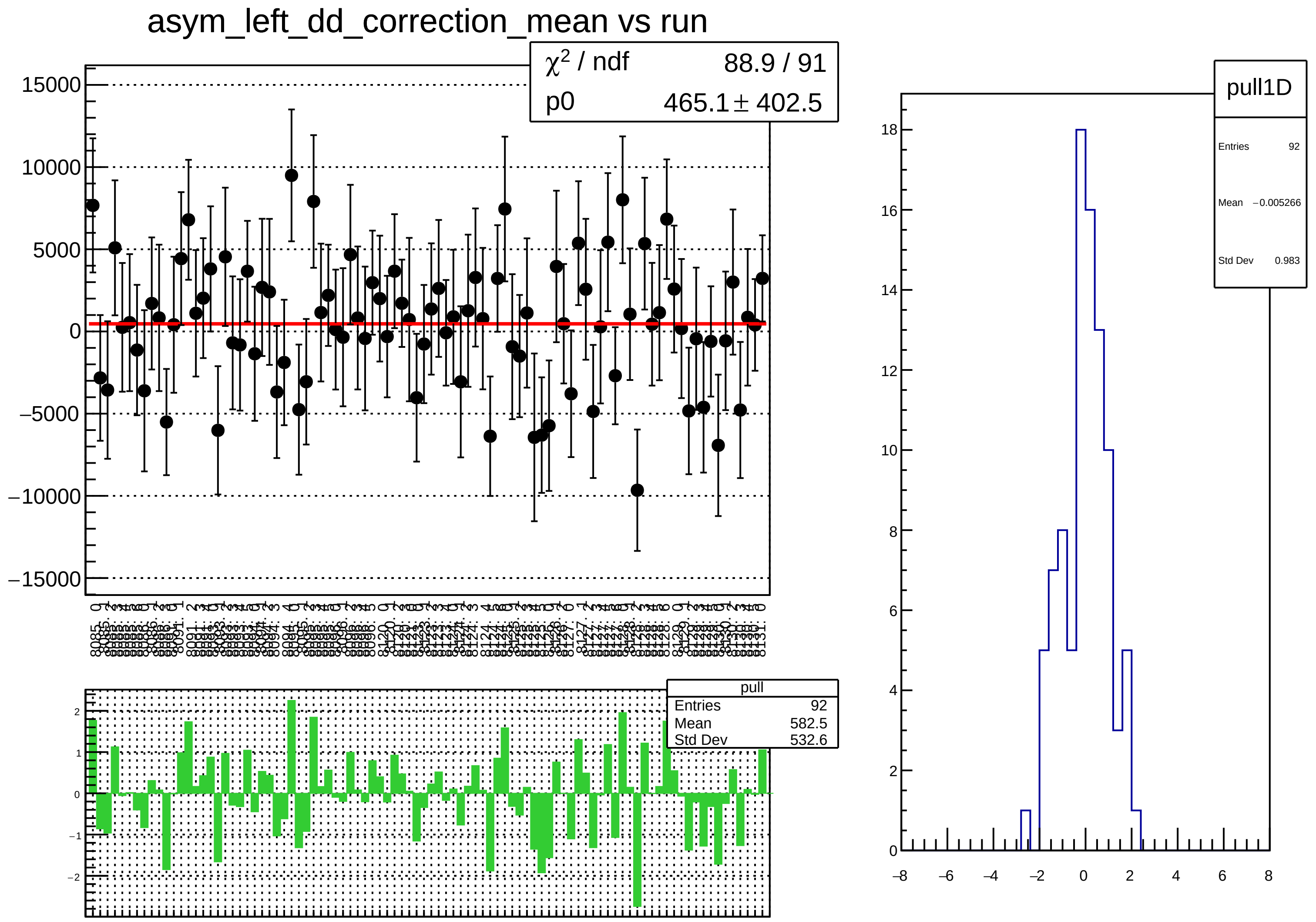


asym_left_avg_rms vs run
χ2 / ndf 4677 / 91
p0 2100 ± 1.549
2500
2400
2300
2200
2100
2000
1900

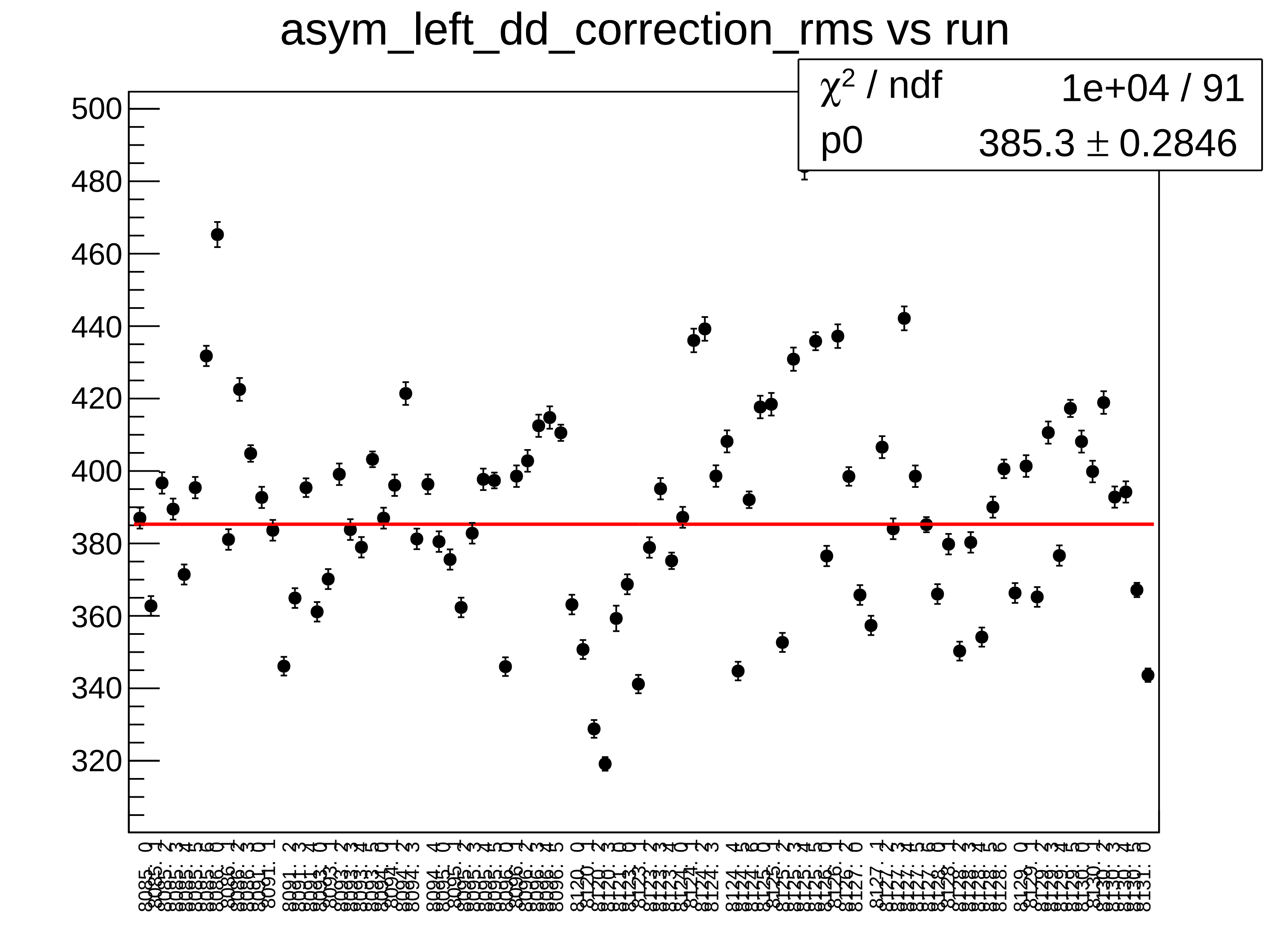

reg_asym_left_dd_mean vs run
χ2 / ndf 103.4 / 91
p0 654.7 ± 2158
pull
Entries 92
Mean 333.6
Std Dev 328.5
pull1D
Entries 92
Mean −0.003903
Std Dev 1.06

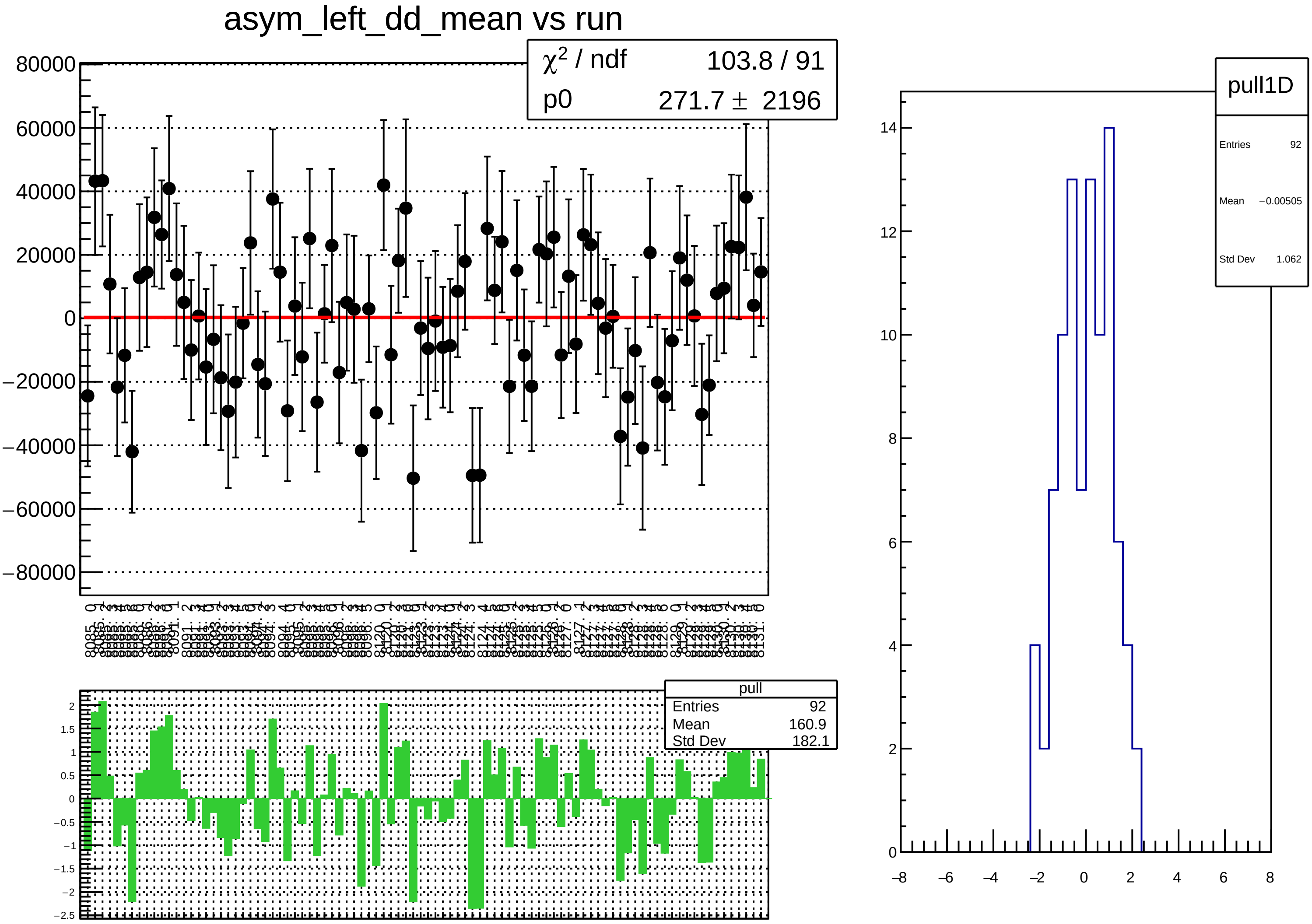


reg_asym_left_dd_rms vs run
χ2 / ndf 4773 / 91
p0 2068 ± 1.526
2400
2300
2200
2100
2000
1900

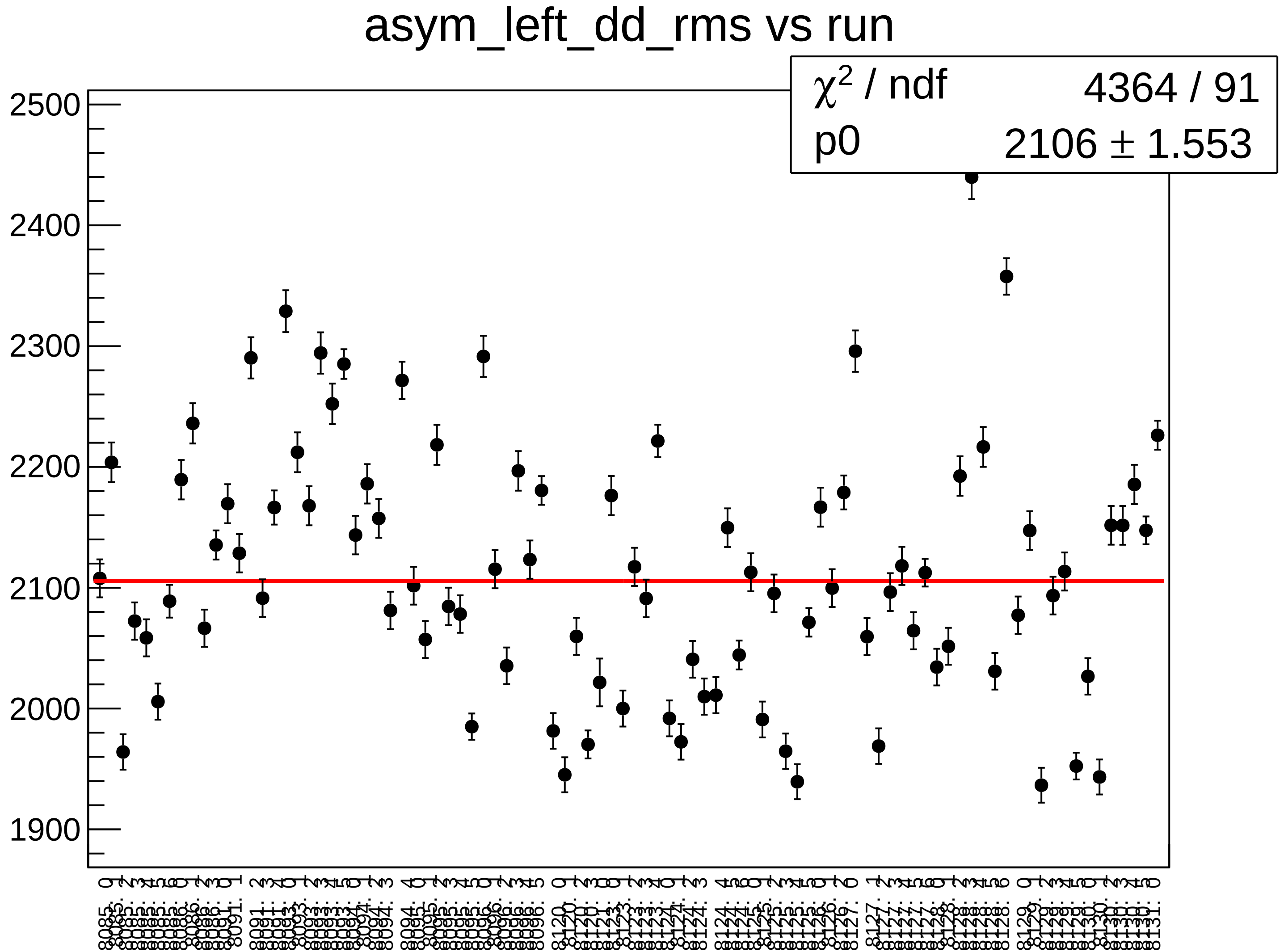


asym_left_dd_correction_mean vs run
χ^2 / ndf 88.9 / 91
p0 465.1 ± 402.5
pull
Entries 92
Mean 582.5
Std Dev 532.6
pull1D
Entries 92
Mean −0.005266
Std Dev 0.983

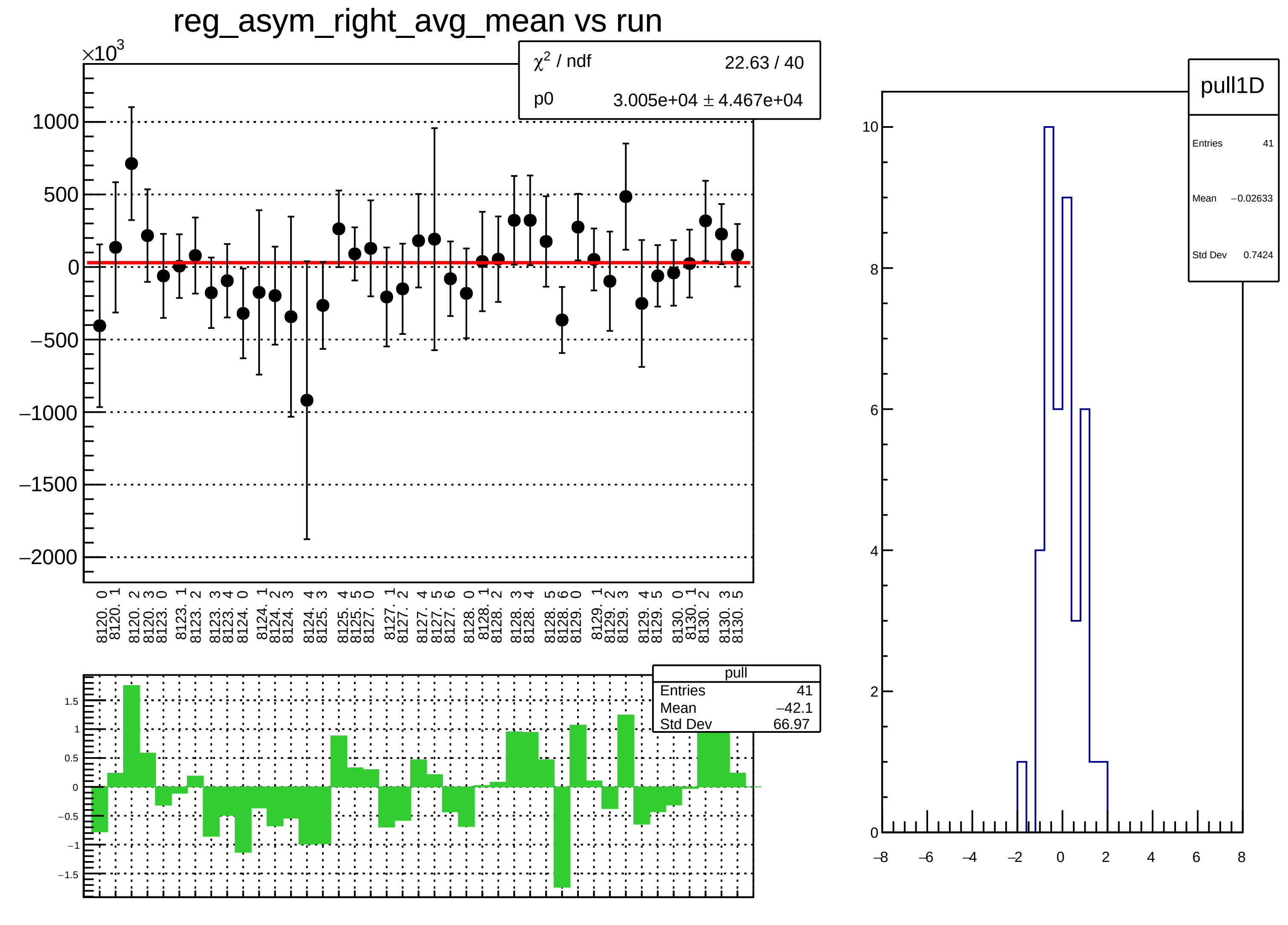

asym_left_dd_correction_rms vs run
χ2 / ndf 1e+04 / 91
p0 385.3 ± 0.2846
500
480
460
440
420
400
380
360
340
320



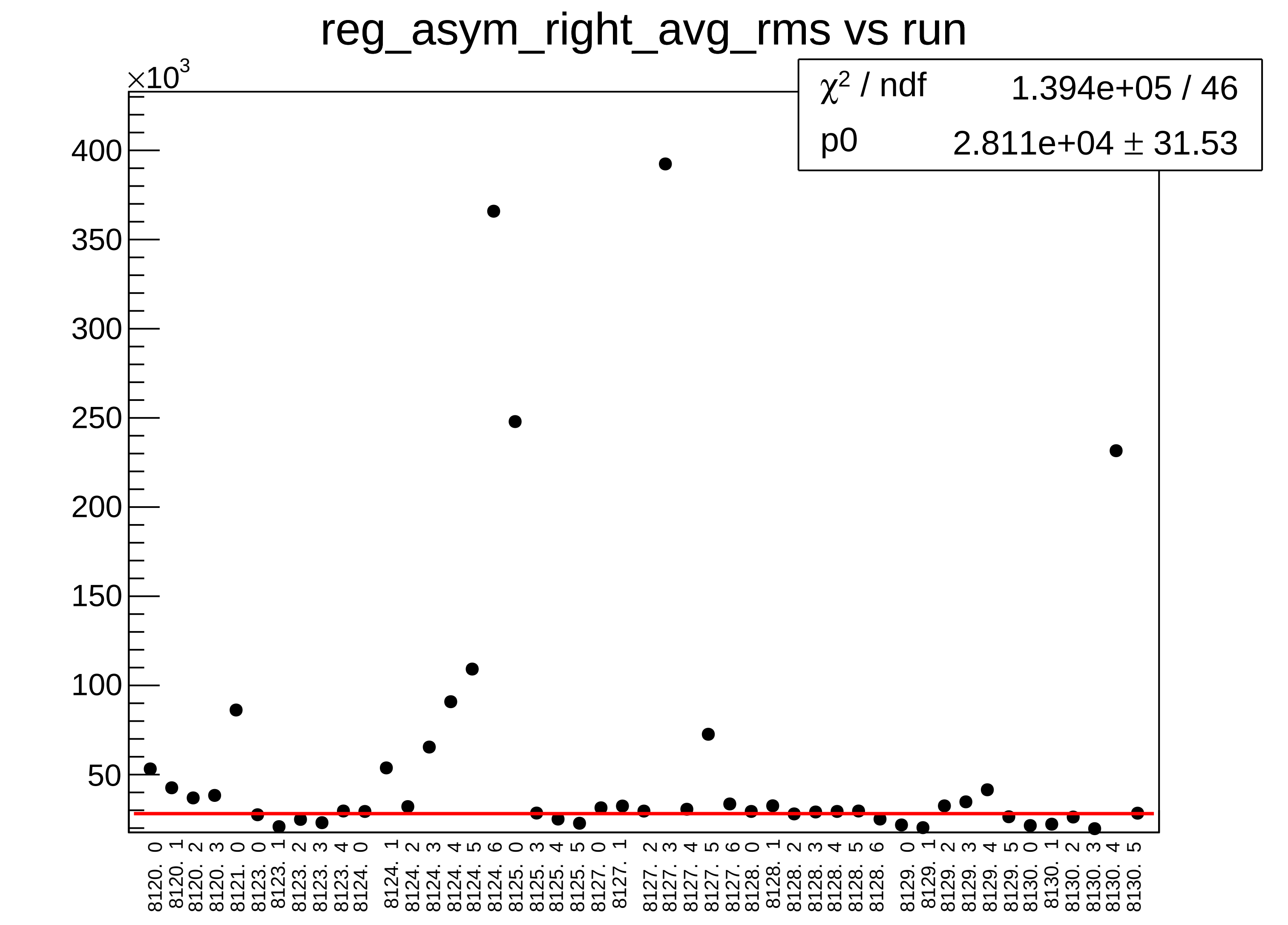
asym_left_dd_mean vs run
χ^2 / ndf 103.8 / 91
p0 271.7 ± 2196
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean 160.9
Std Dev 182.1
pull1D
Entries 92
Mean −0.00505
Std Dev 1.062



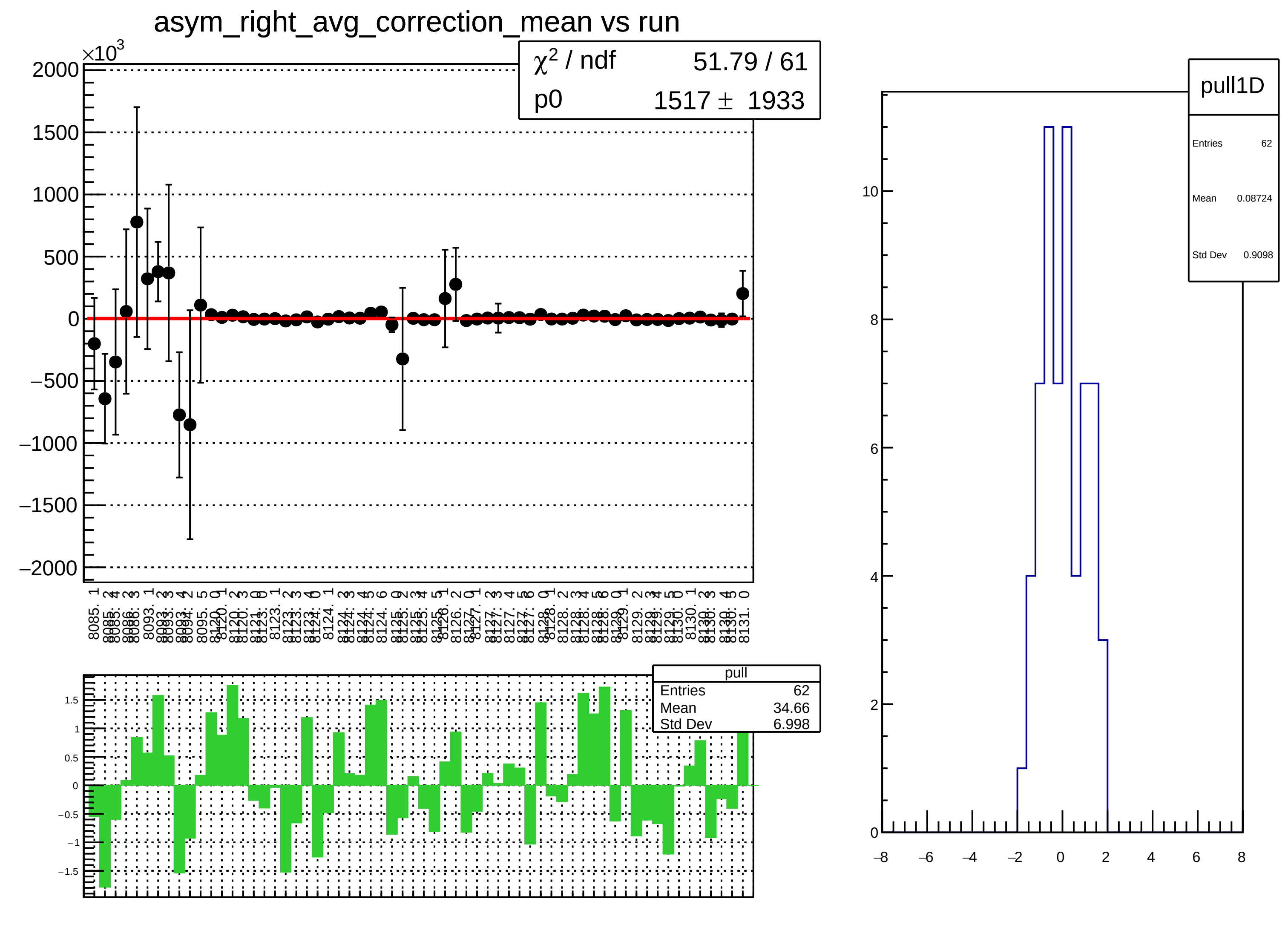
asym_left_dd_rms vs run
χ^2 / ndf 4364 / 91
p0 2106 ± 1.553
2500
2400
2300
2200
2100
2000
1900

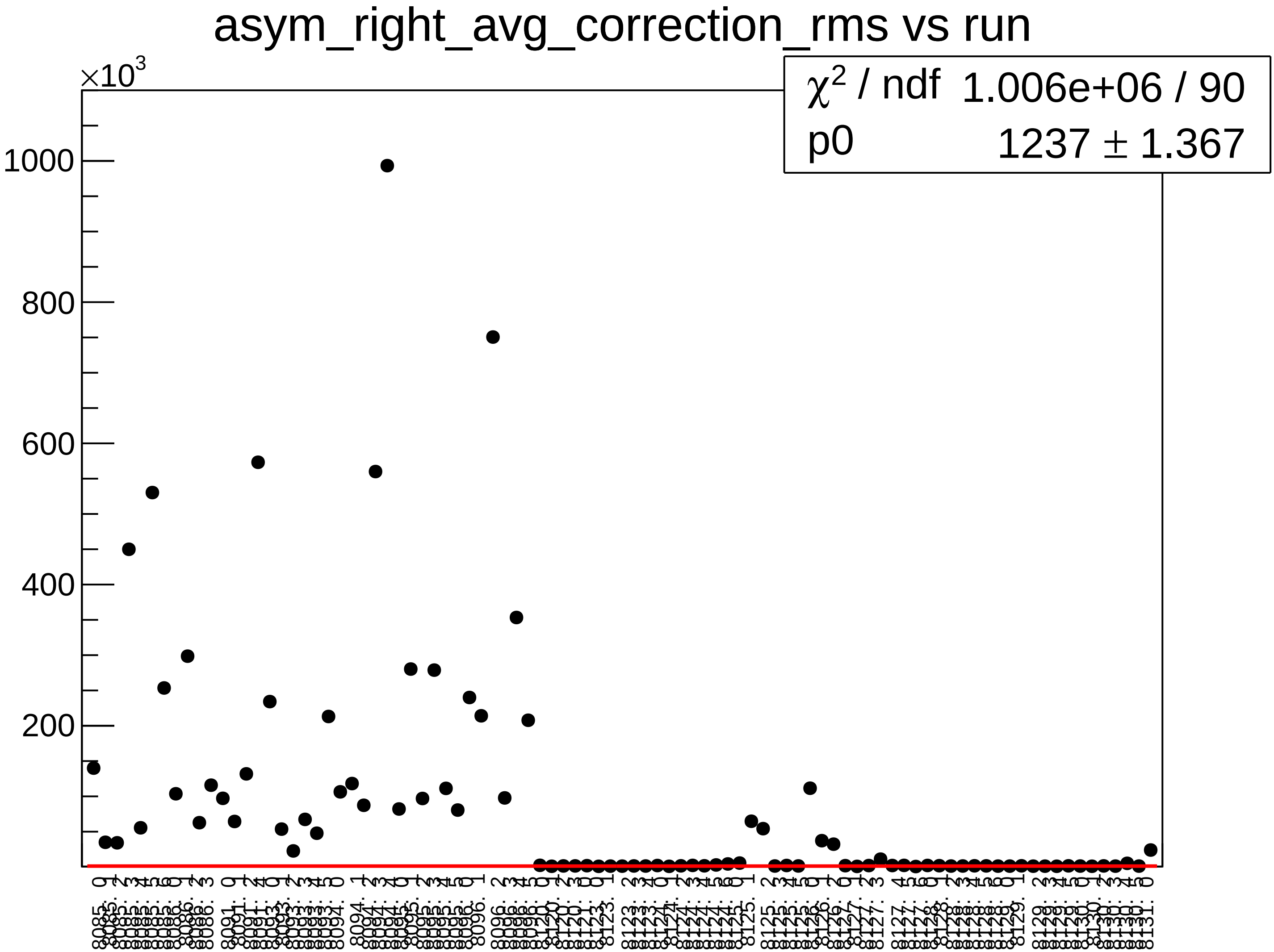


reg_asym_right_avg_mean vs run
×10^3
χ2 / ndf 22.63 / 40
p0 3.005e+04 ± 4.467e+04
pull
Entries 41
Mean −42.1
Std Dev 66.97
pull1D
Entries 41
Mean −0.02633
Std Dev 0.7424

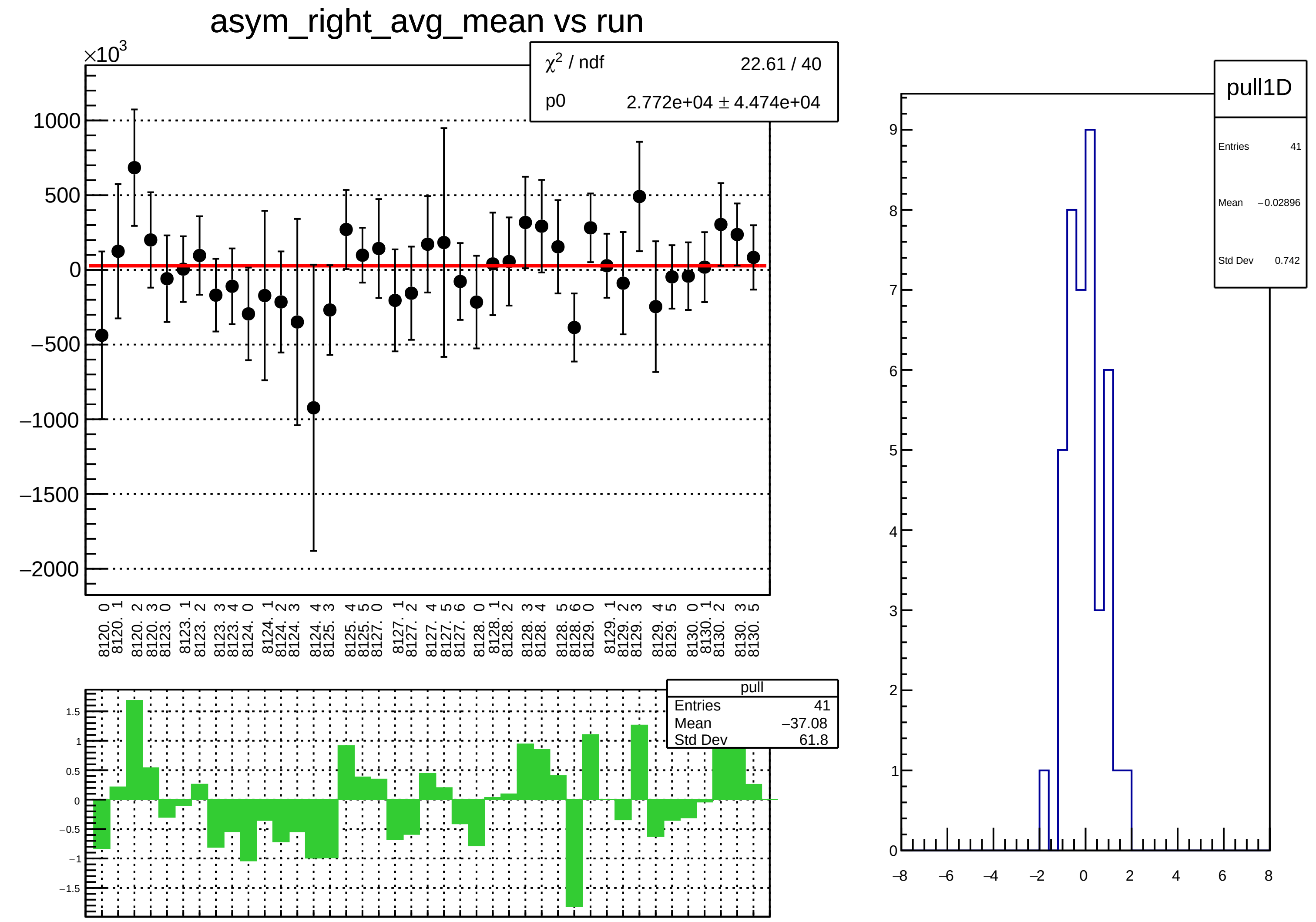


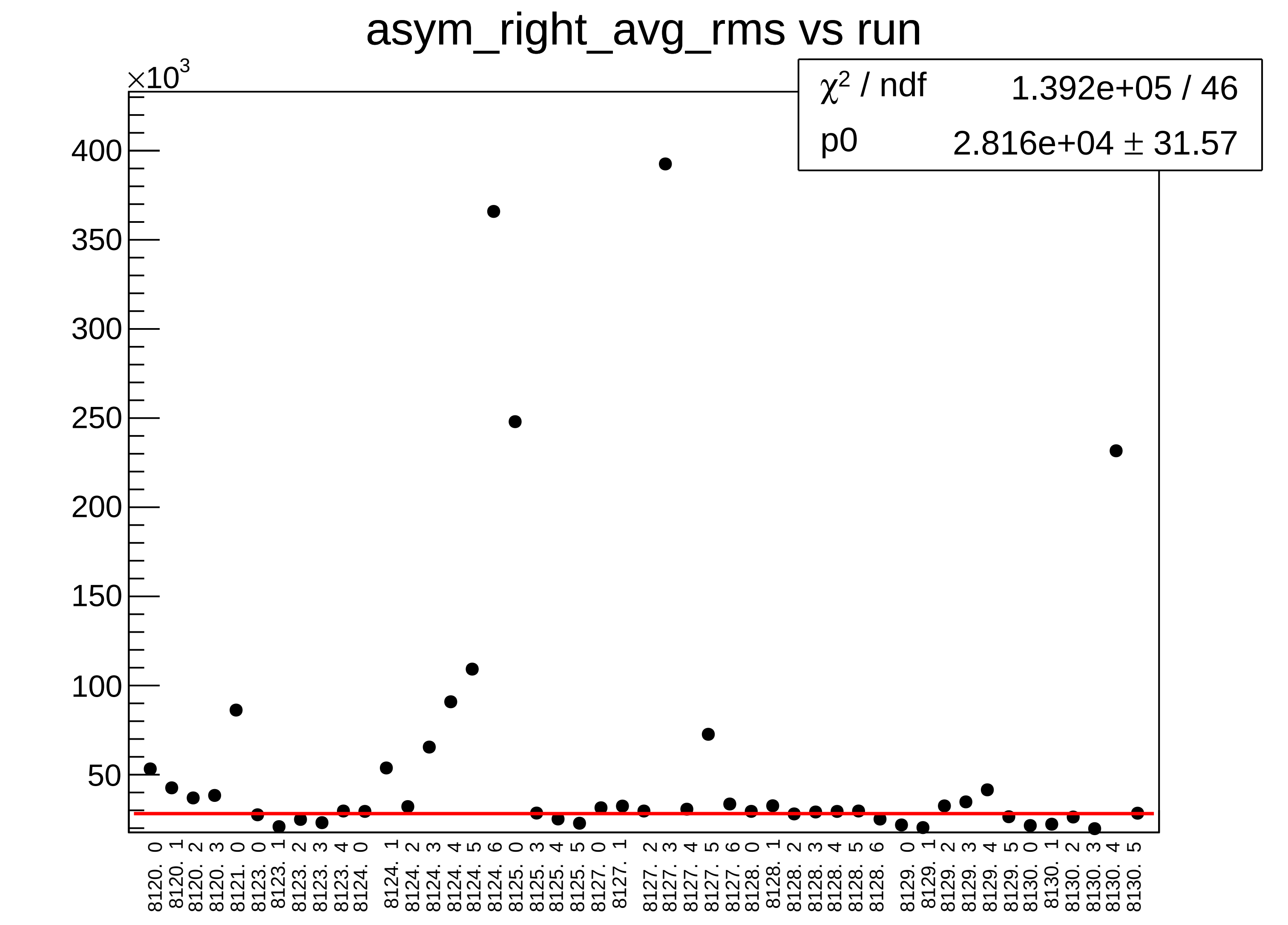
reg_asym_right_avg_rms vs run
×10^3
χ2 / ndf 1.394e+05 / 46
p0 2.811e+04 ± 31.53
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5


asym_right_avg_correction_mean vs run
×10^3
χ2 / ndf 51.79 / 61
p0 1517 ± 1933
2000
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 62
Mean 34.66
Std Dev 6.998
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean 0.08724
Std Dev 0.9098
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

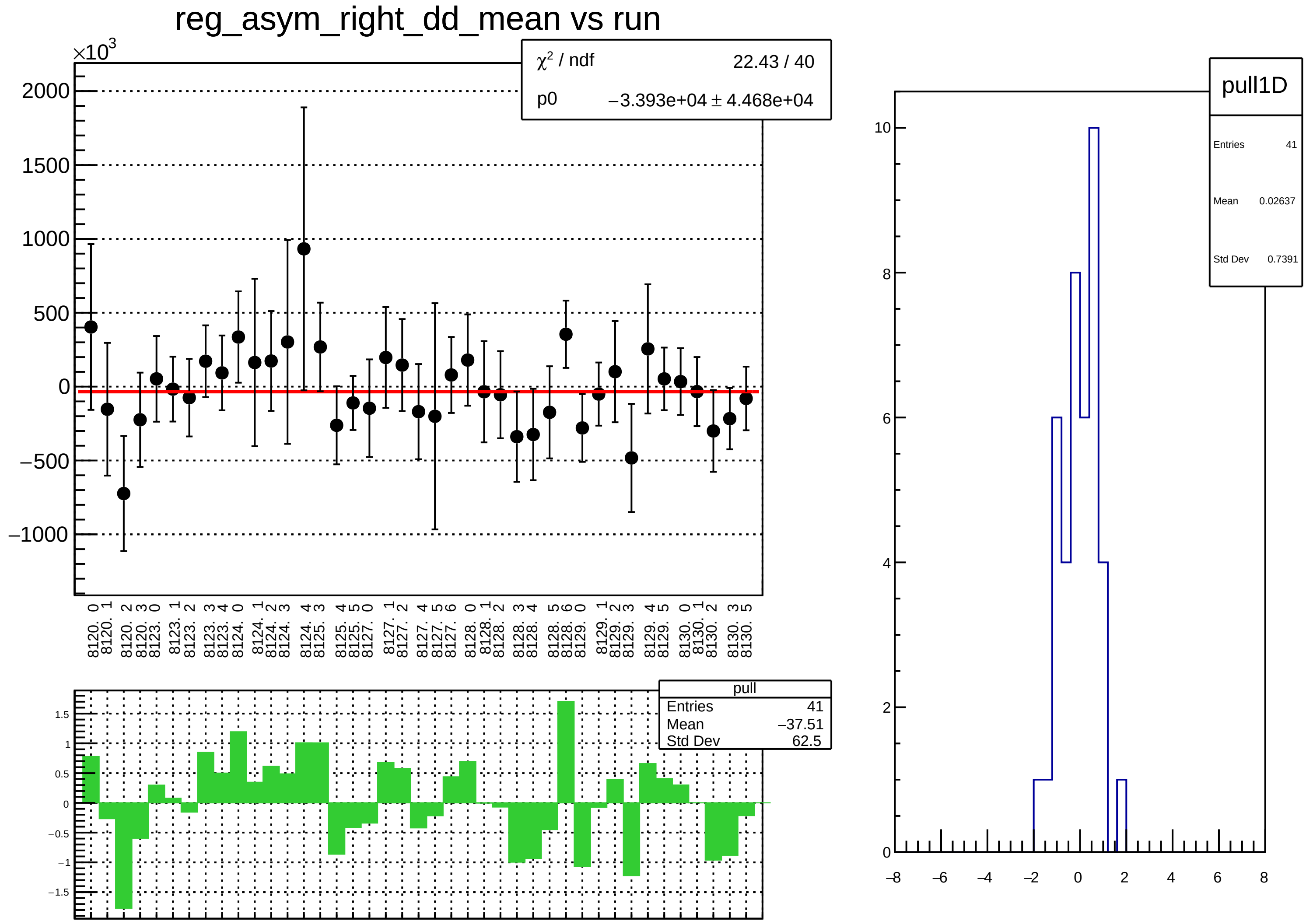


asym_right_avg_correction_rms vs run
×10^3
1000
800
600
400
200
χ^2 / ndf 1.006e+06 / 90
p0 1237 ± 1.367

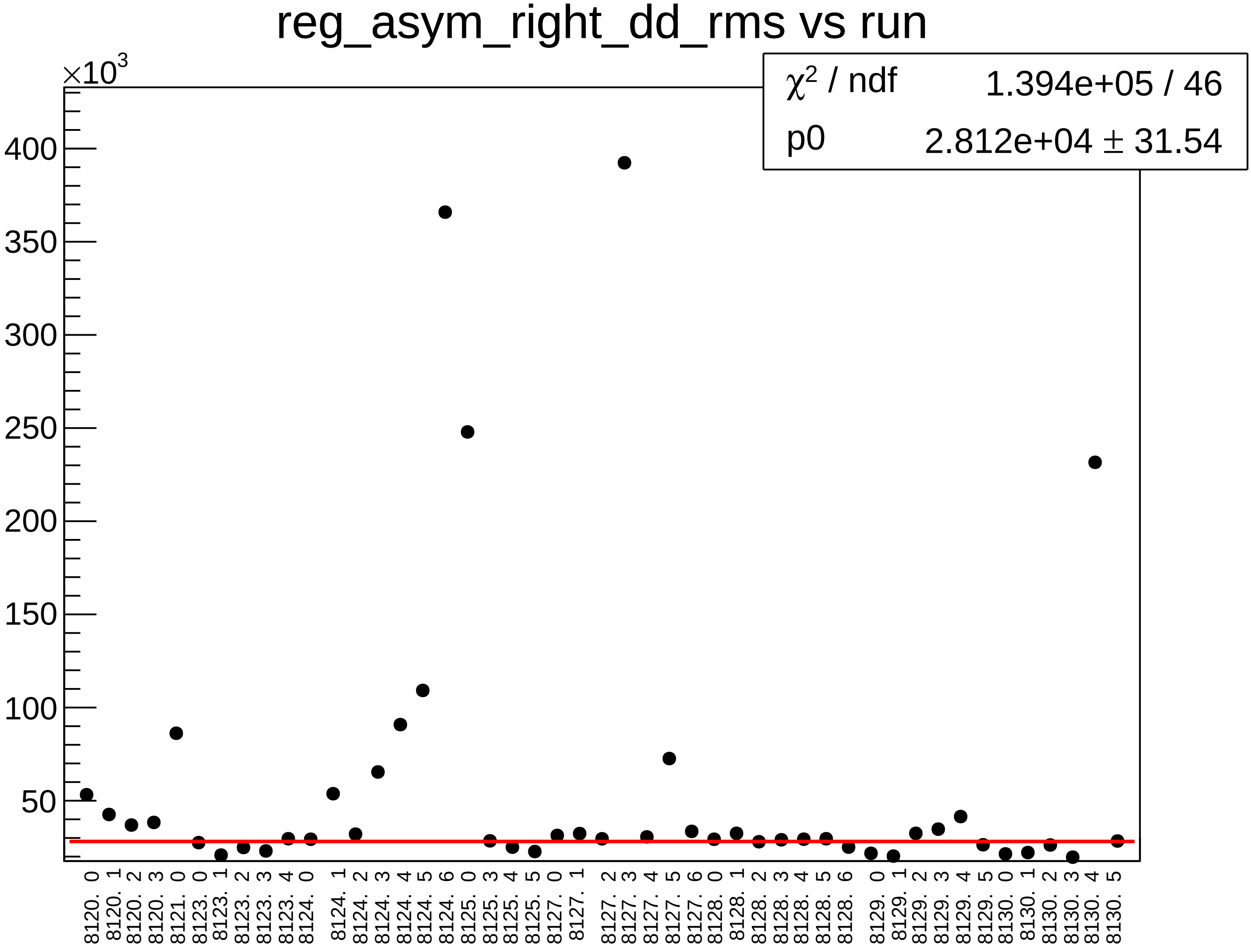

asym_right_avg_mean vs run
×10^3
χ2 / ndf 22.61 / 40
p0 2.772e+04 ± 4.474e+04
1000
500
0
−500
−1000
−1500
−2000
8120.0 8120.1 8120.2 8120.3 8123.0 8123.1 8123.2 8123.3 8123.4 8124.0 8124.1 8124.2 8124.3 8124.4 8125.3 8125.4 8125.5 8127.0 8127.1 8127.2 8127.4 8127.5 8127.6 8128.0 8128.1 8128.2 8128.3 8128.4 8128.5 8128.6 8129.0 8129.1 8129.2 8129.3 8129.4 8129.5 8130.0 8130.1 8130.2 8130.3 8130.5
pull
Entries 41
Mean −37.08
Std Dev 61.8
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean −0.02896
Std Dev 0.742
9 8 7 6 5 4 3 2 1 0
−8 −6 −4 −2 0 2 4 6 8

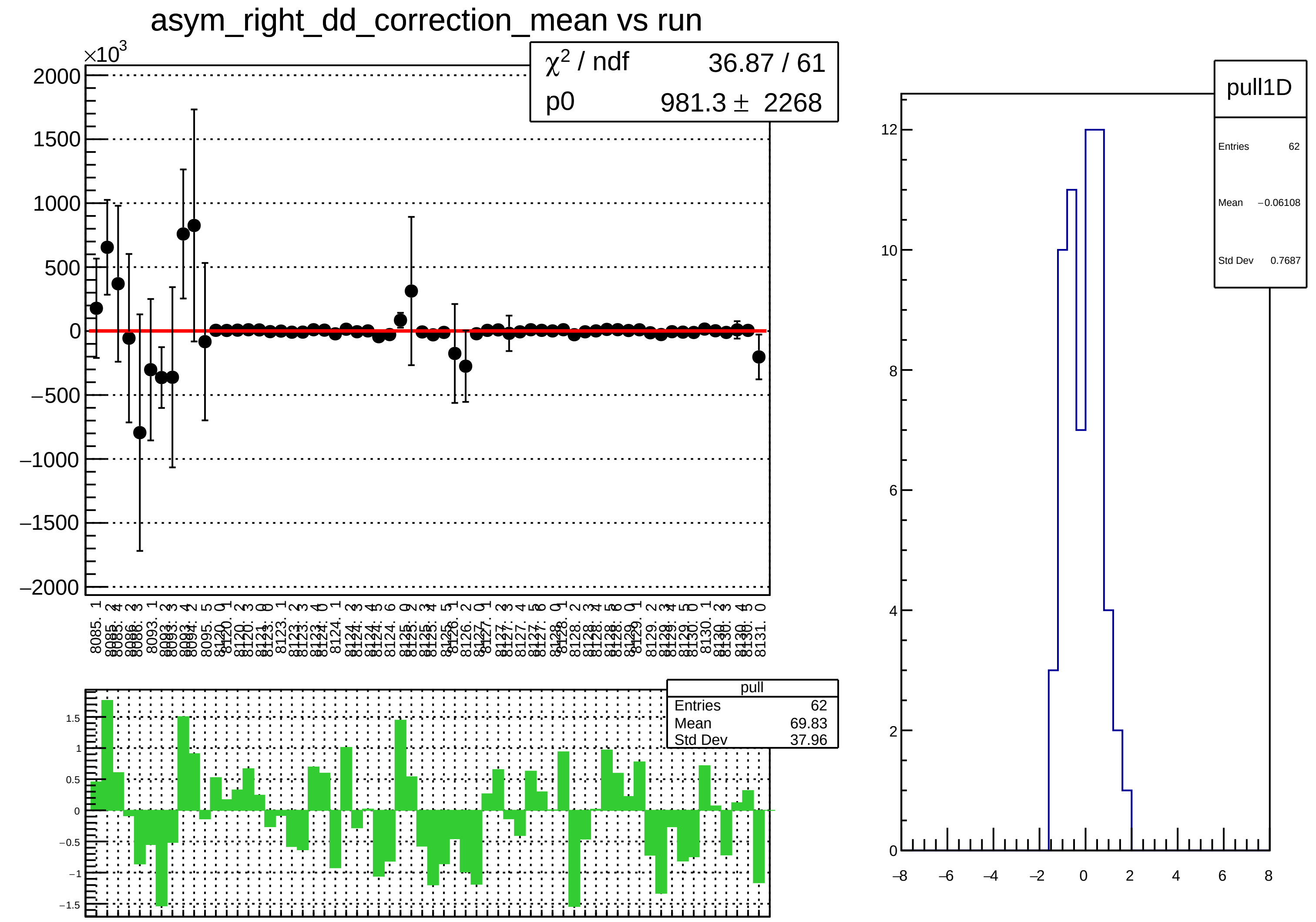


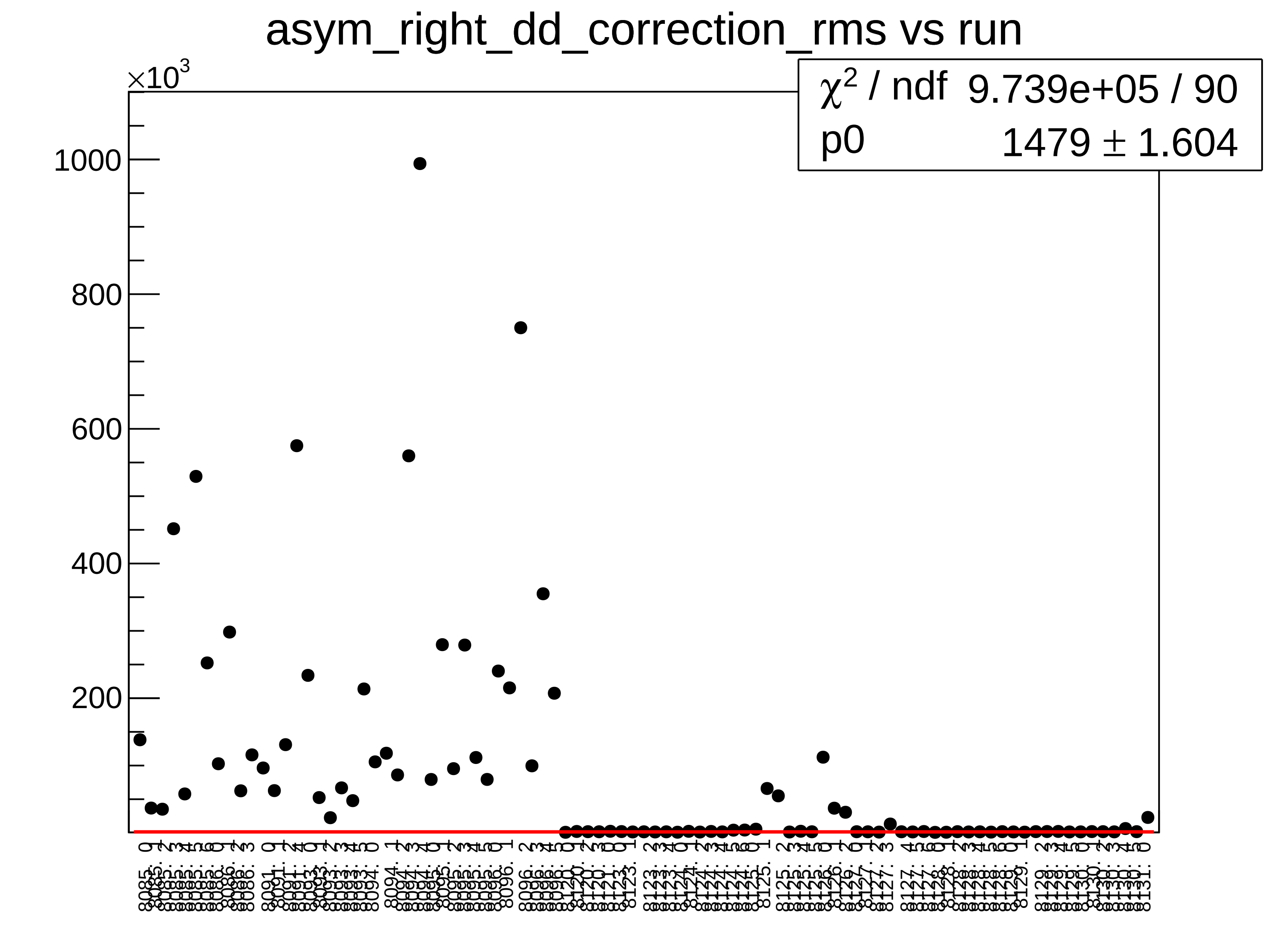
asym_right_avg_rms vs run
×10^3
χ2 / ndf 1.392e+05 / 46
p0 2.816e+04 ± 31.57
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5

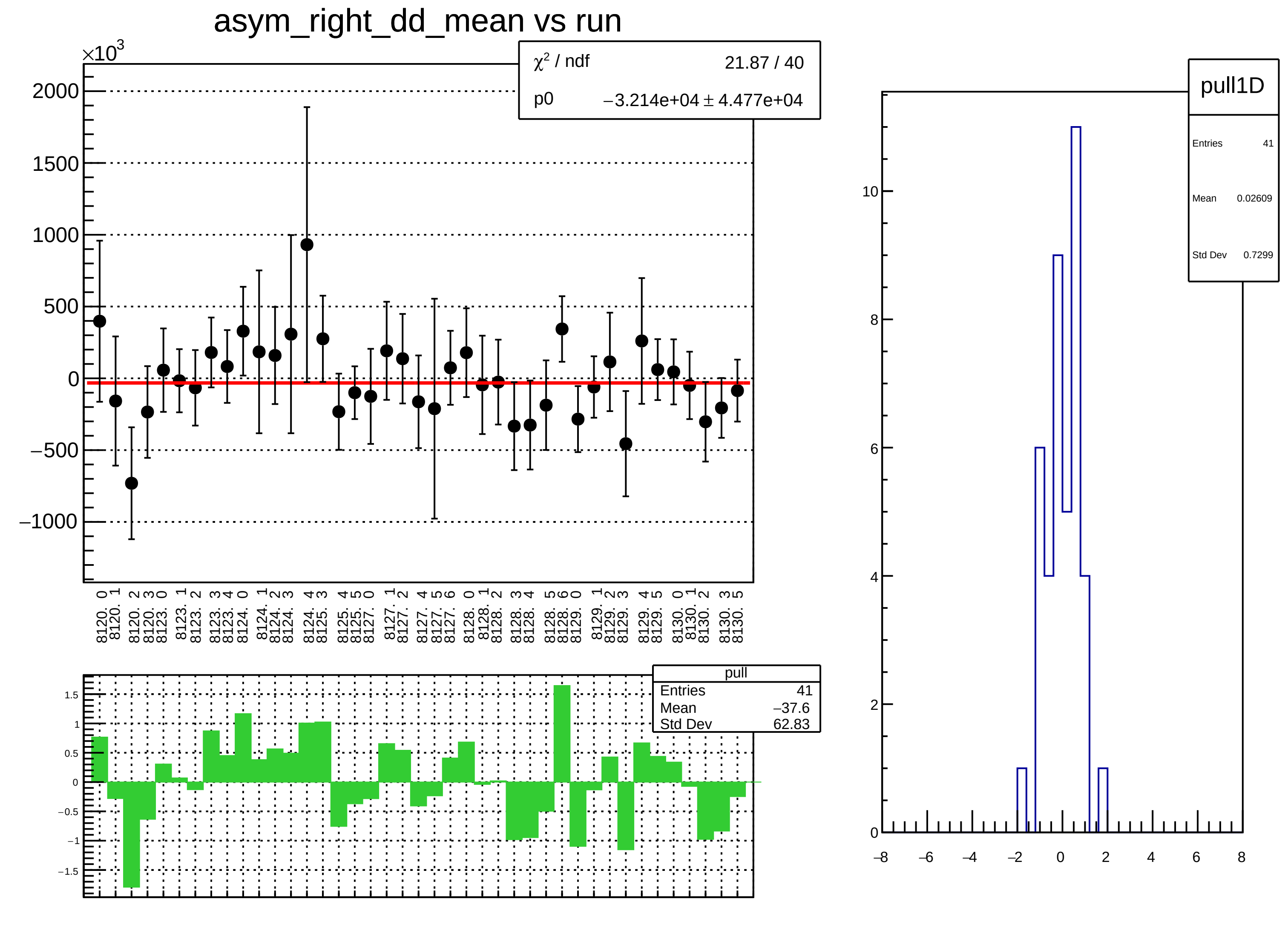


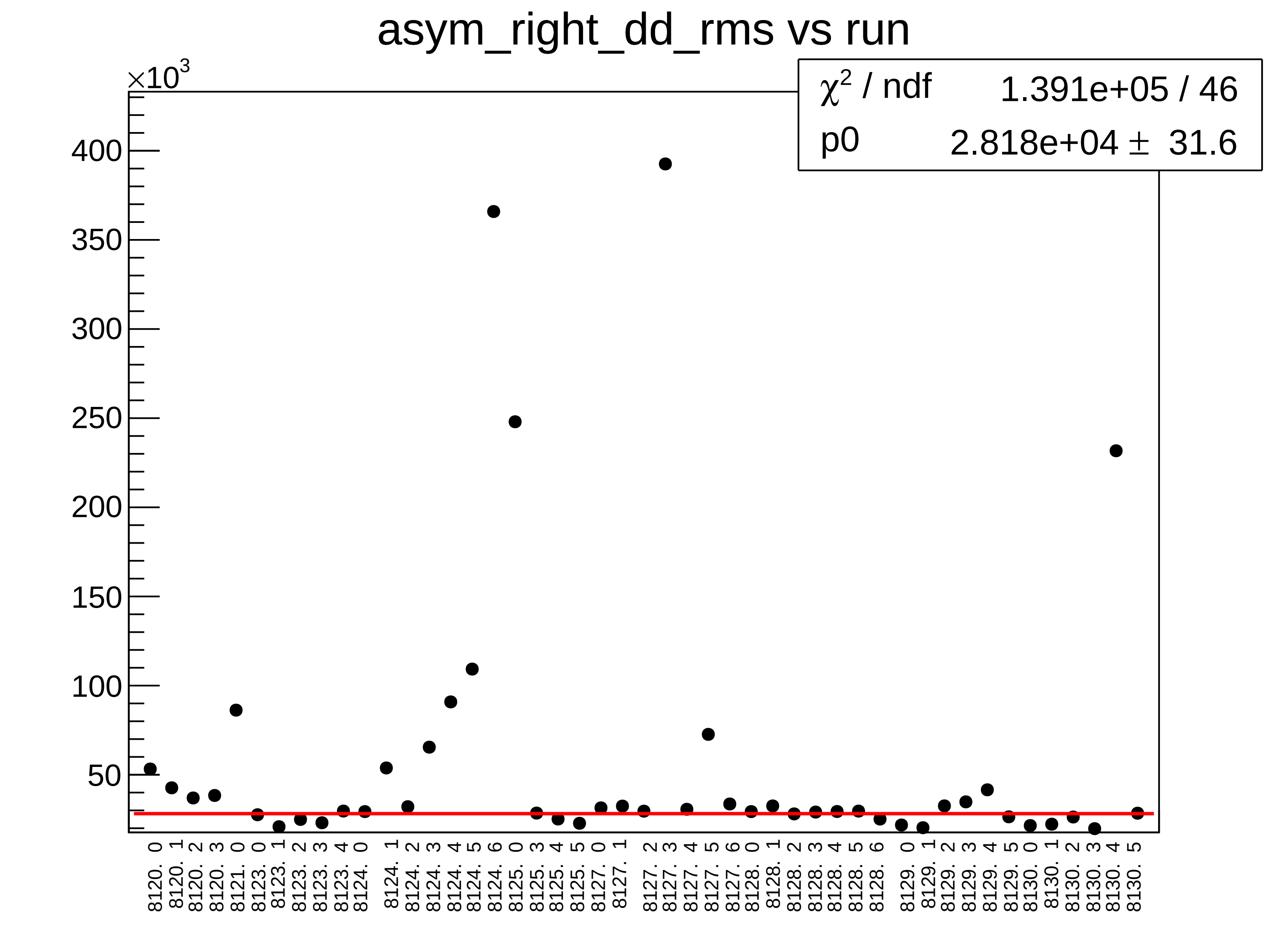
reg_asym_right_dd_mean vs run
×10^3
χ2 / ndf 22.43 / 40
p0 −3.393e+04 ± 4.468e+04
2000
1500
1000
500
0
−500
−1000
8120.0
8120.1
8120.2
8120.3
8123.0
8123.1
8123.2
8123.3
8123.4
8124.0
8124.1
8124.2
8124.3
8124.4
8125.3
8125.4
8125.5
8127.0
8127.1
8127.2
8127.4
8127.5
8127.6
8128.0
8128.1
8128.2
8128.3
8128.4
8128.5
8128.6
8129.0
8129.1
8129.2
8129.3
8129.4
8129.5
8130.0
8130.1
8130.2
8130.3
8130.5
pull
Entries 41
Mean −37.51
Std Dev 62.5
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 41
Mean 0.02637
Std Dev 0.7391
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_right_dd_rms vs run
×10^3
χ2 / ndf 1.394e+05 / 46
p0 2.812e+04 ± 31.54
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5

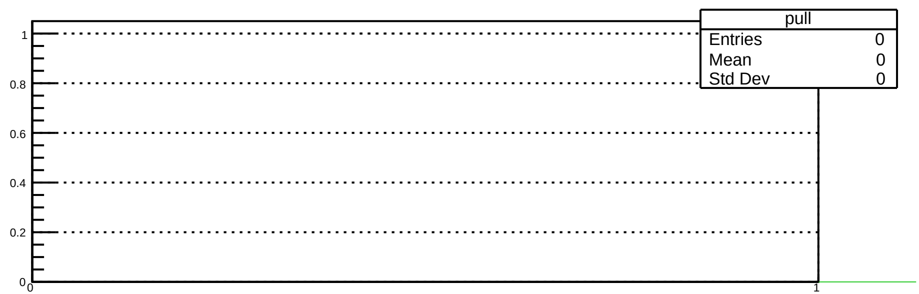
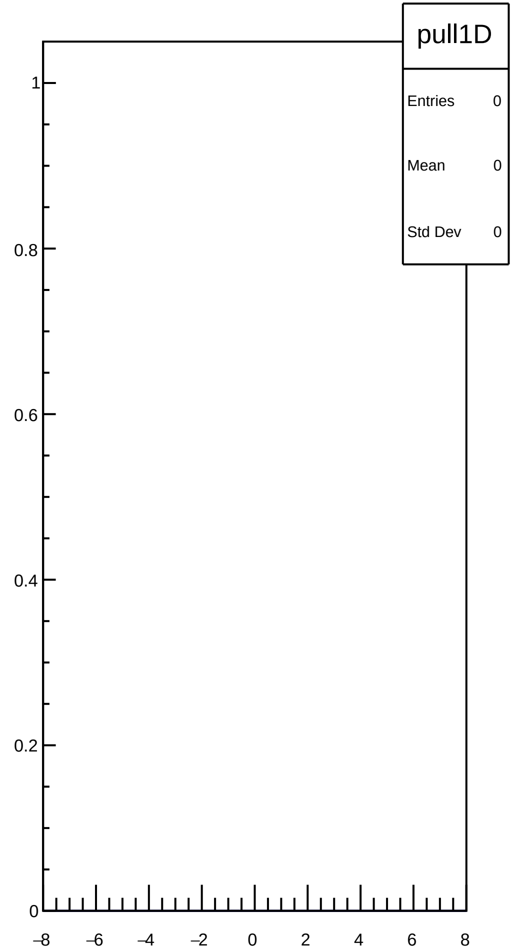

asym_right_dd_correction_mean vs run
$\times 10^3$
χ^2 / ndf 36.87 / 61
p0 981.3 ± 2268
pull
Entries 62
Mean 69.83
Std Dev 37.96
pull1D
Entries 62
Mean −0.06108
Std Dev 0.7687

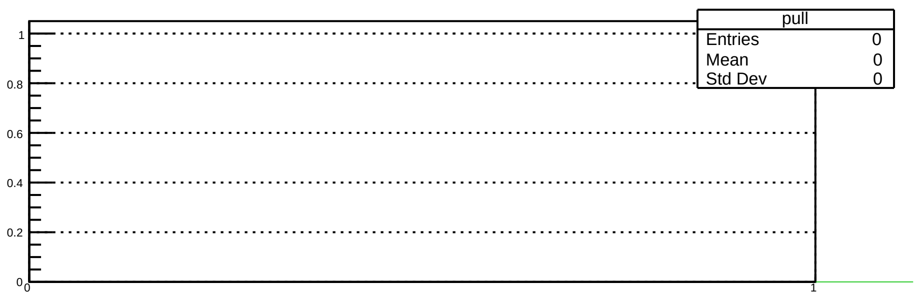

asym_right_dd_correction_rms vs run
$\times 10^3$
χ^2 / ndf 9.739e+05 / 90
p0 1479 ± 1.604
1000
800
600
400
200

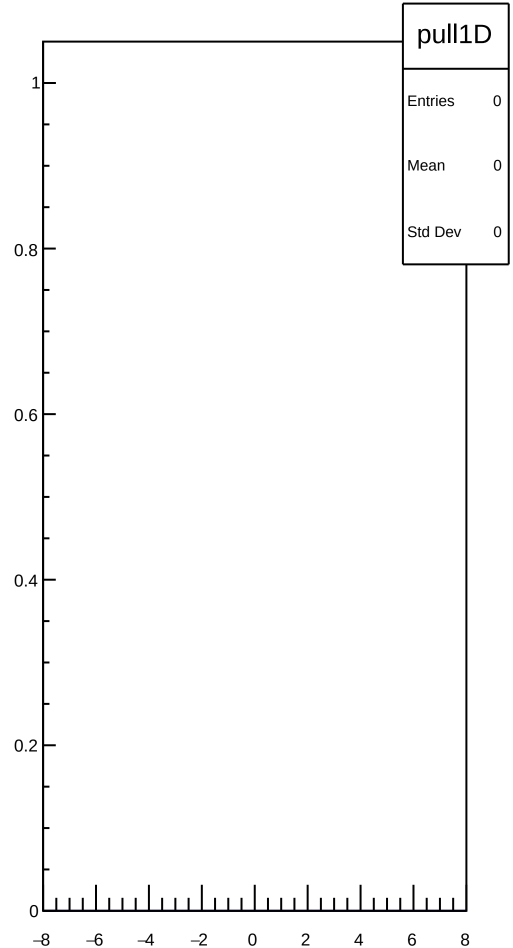

asym_right_dd_mean vs run
χ^2 / ndf 21.87 / 40
p0 −3.214e+04 ± 4.477e+04
pull
Entries 41
Mean −37.6
Std Dev 62.83
pull1D
Entries 41
Mean 0.02609
Std Dev 0.7299

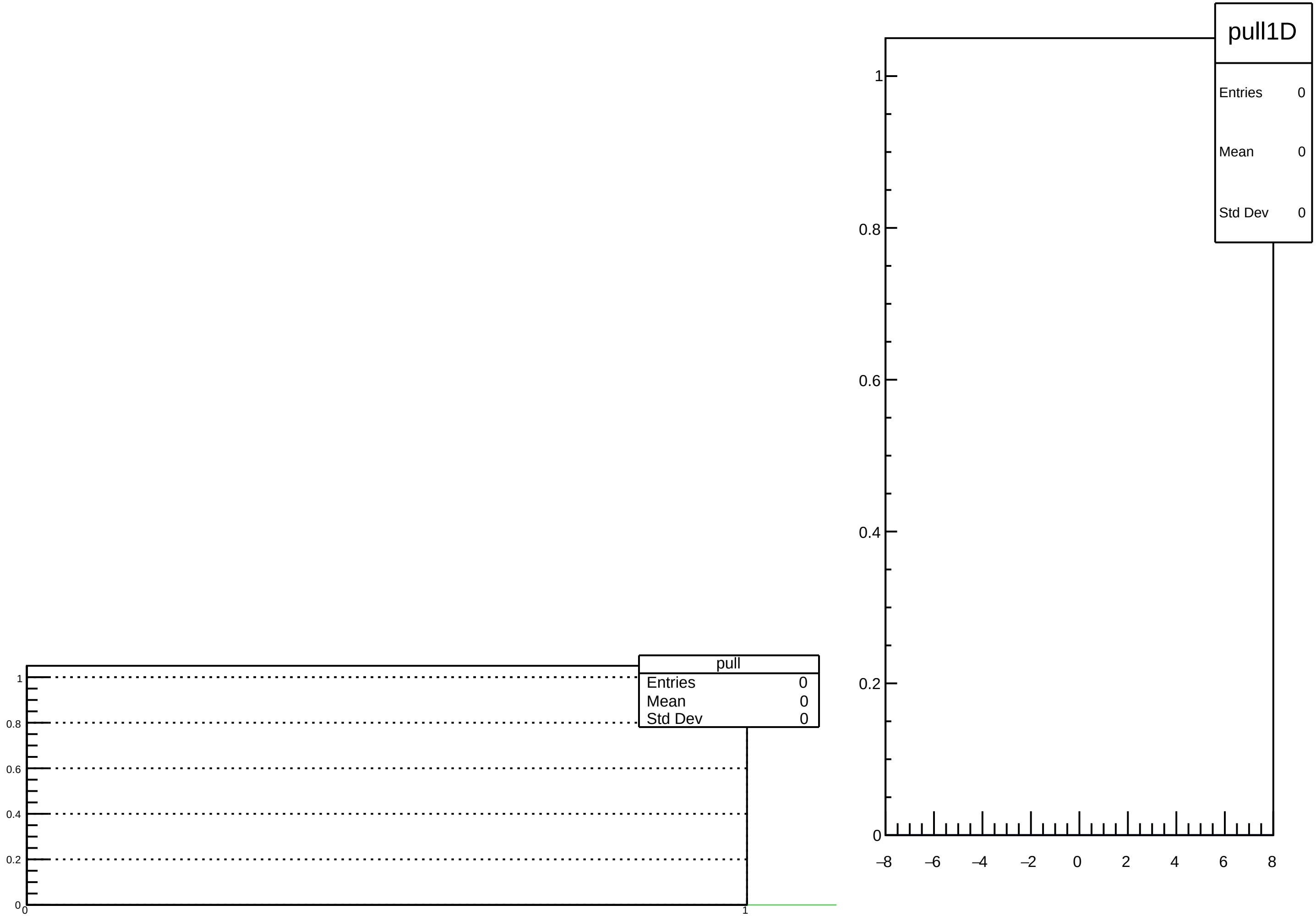


asym_right_dd_rms vs run
×10^3
χ2 / ndf 1.391e+05 / 46
p0 2.818e+04 ± 31.6
400
350
300
250
200
150
100
50
8120. 0
8120. 1
8120. 2
8120. 3
8121. 0
8123. 0
8123. 1
8123. 2
8123. 3
8123. 4
8124. 0
8124. 1
8124. 2
8124. 3
8124. 4
8124. 5
8124. 6
8125. 0
8125. 3
8125. 4
8125. 5
8127. 0
8127. 1
8127. 2
8127. 3
8127. 4
8127. 5
8127. 6
8128. 0
8128. 1
8128. 2
8128. 3
8128. 4
8128. 5
8128. 6
8129. 0
8129. 1
8129. 2
8129. 3
8129. 4
8129. 5
8130. 0
8130. 1
8130. 2
8130. 3
8130. 4
8130. 5

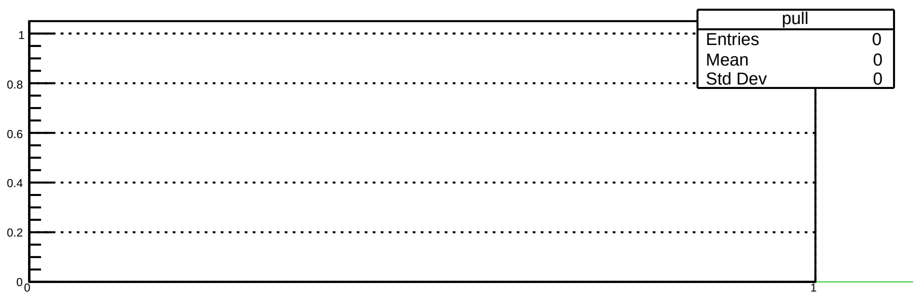
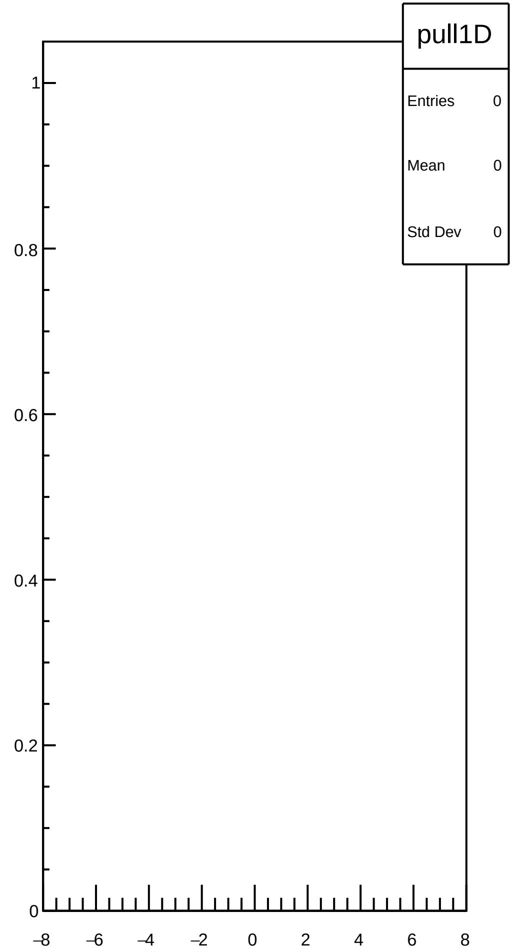

pull
Entries 0
Mean 0
Std Dev 0

pull1D
Entries 0
Mean 0
Std Dev 0

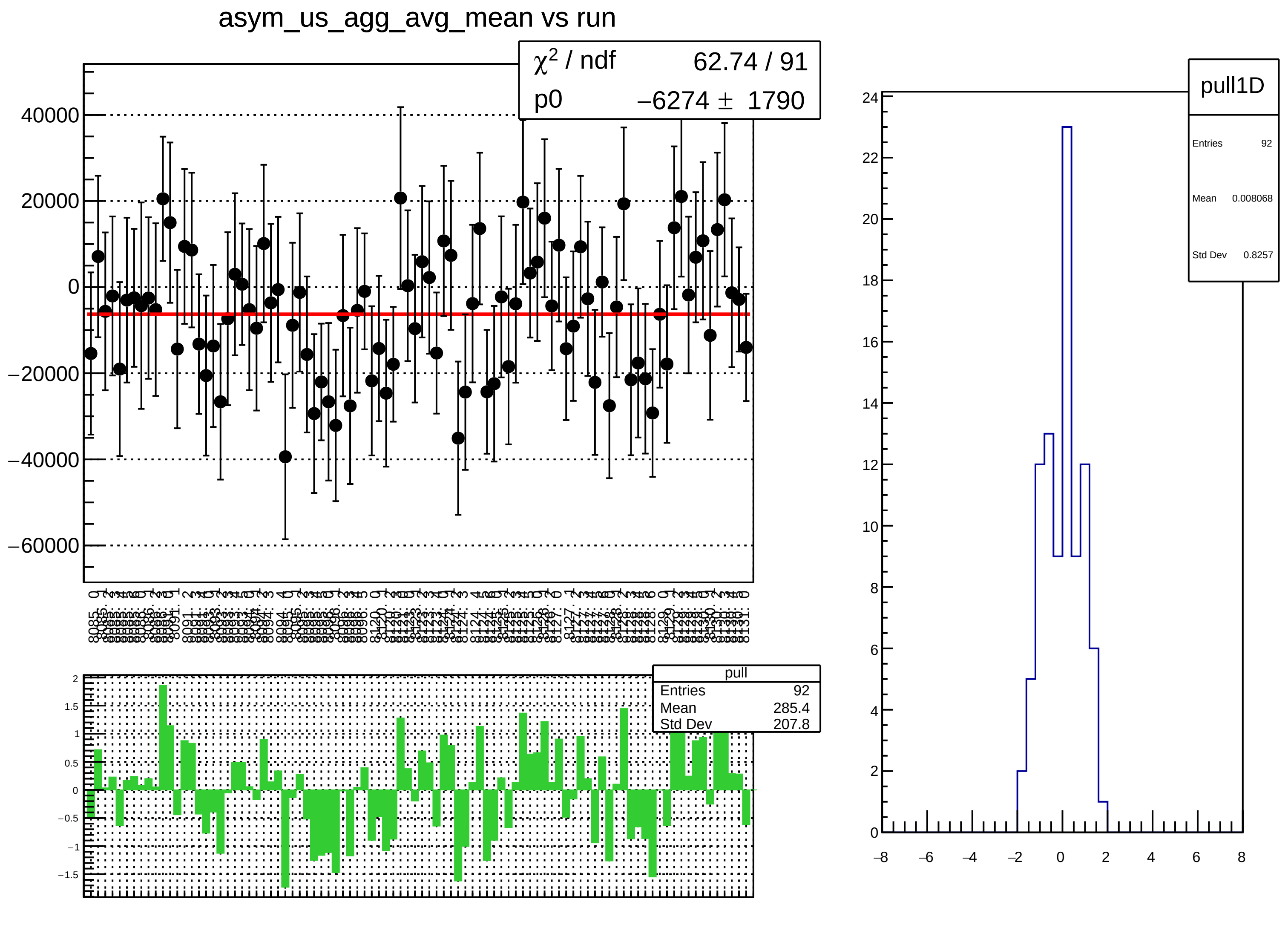

pull
Entries 0
Mean 0
Std Dev 0


pull1D
Entries 0
Mean 0
Std Dev 0

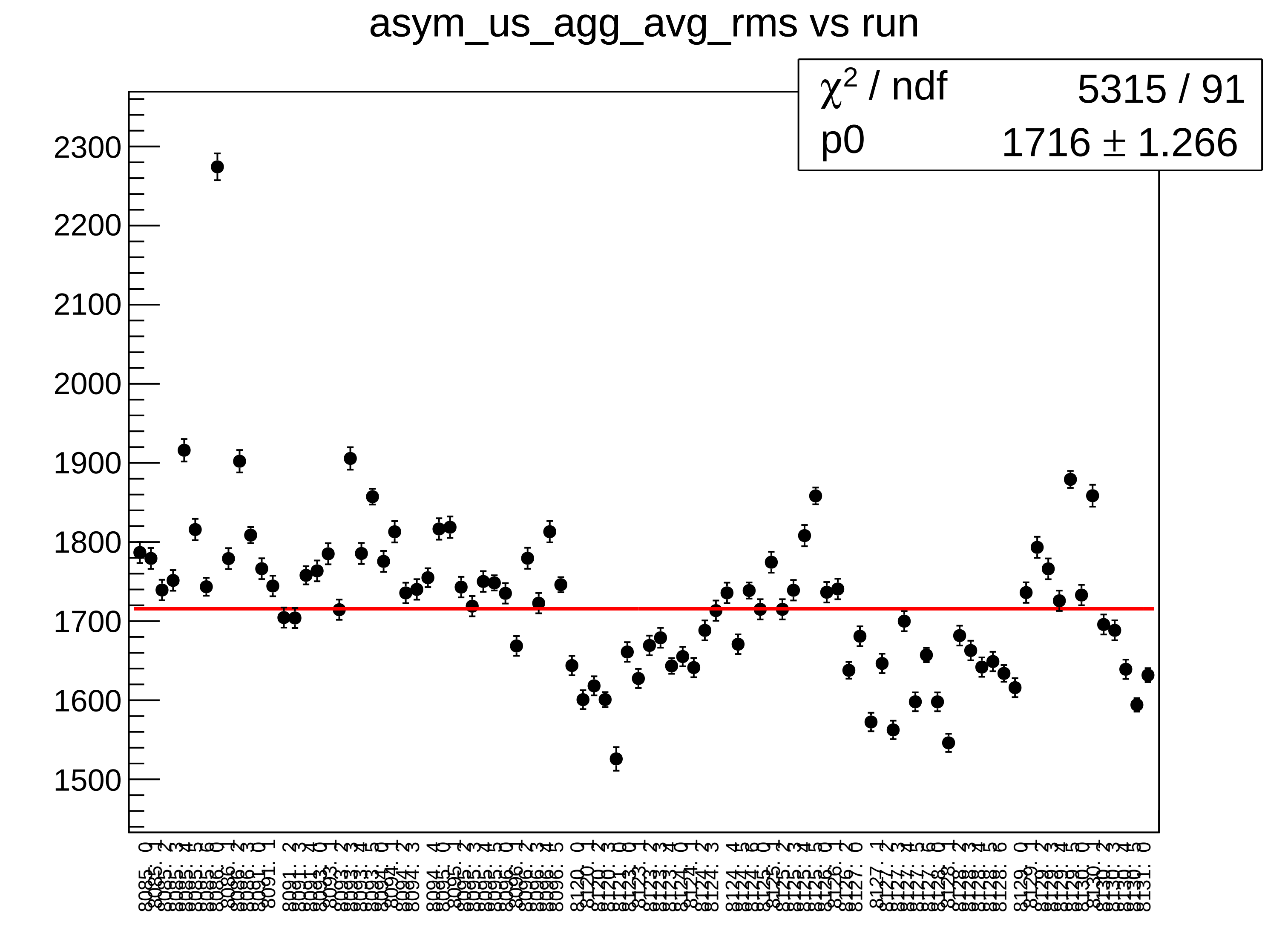


pull
Entries 0
Mean 0
Std Dev 0
pull1D
Entries 0
Mean 0
Std Dev 0

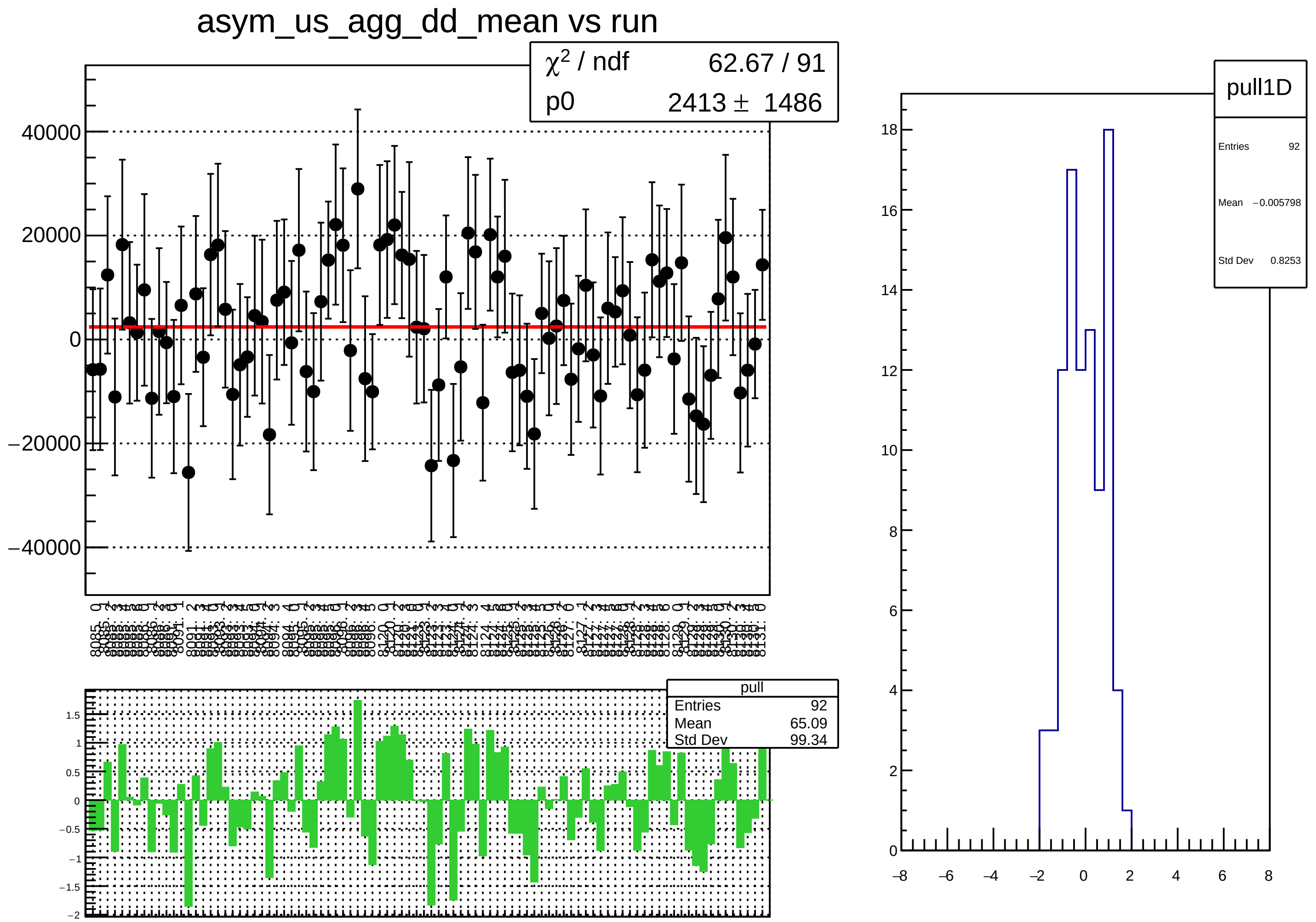

pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1

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



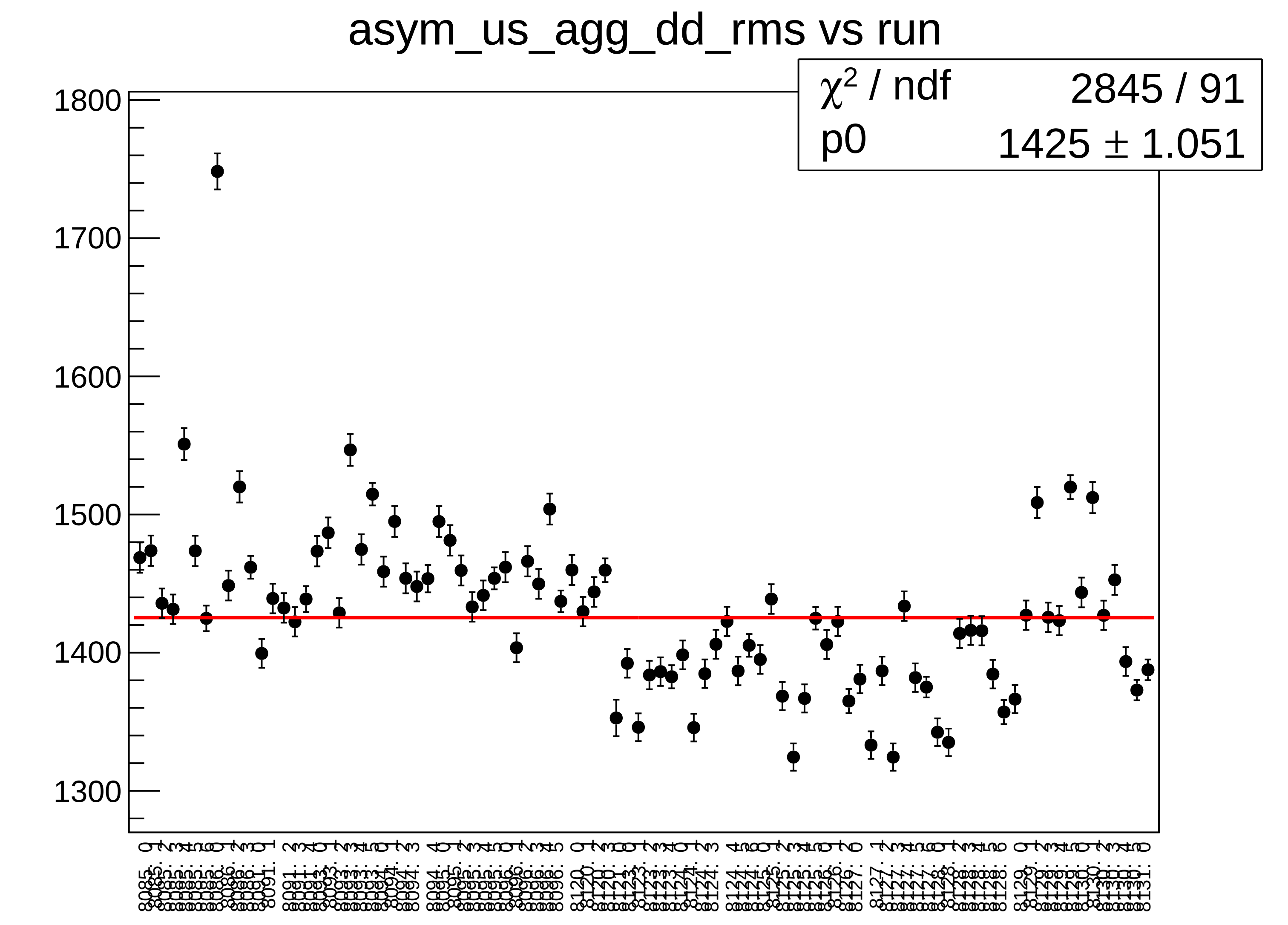
asym_us_agg_avg_mean vs run
χ^2 / ndf 62.74 / 91
p0 −6274 ± 1790
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean 285.4
Std Dev 207.8
pull1D
Entries 92
Mean 0.008068
Std Dev 0.8257

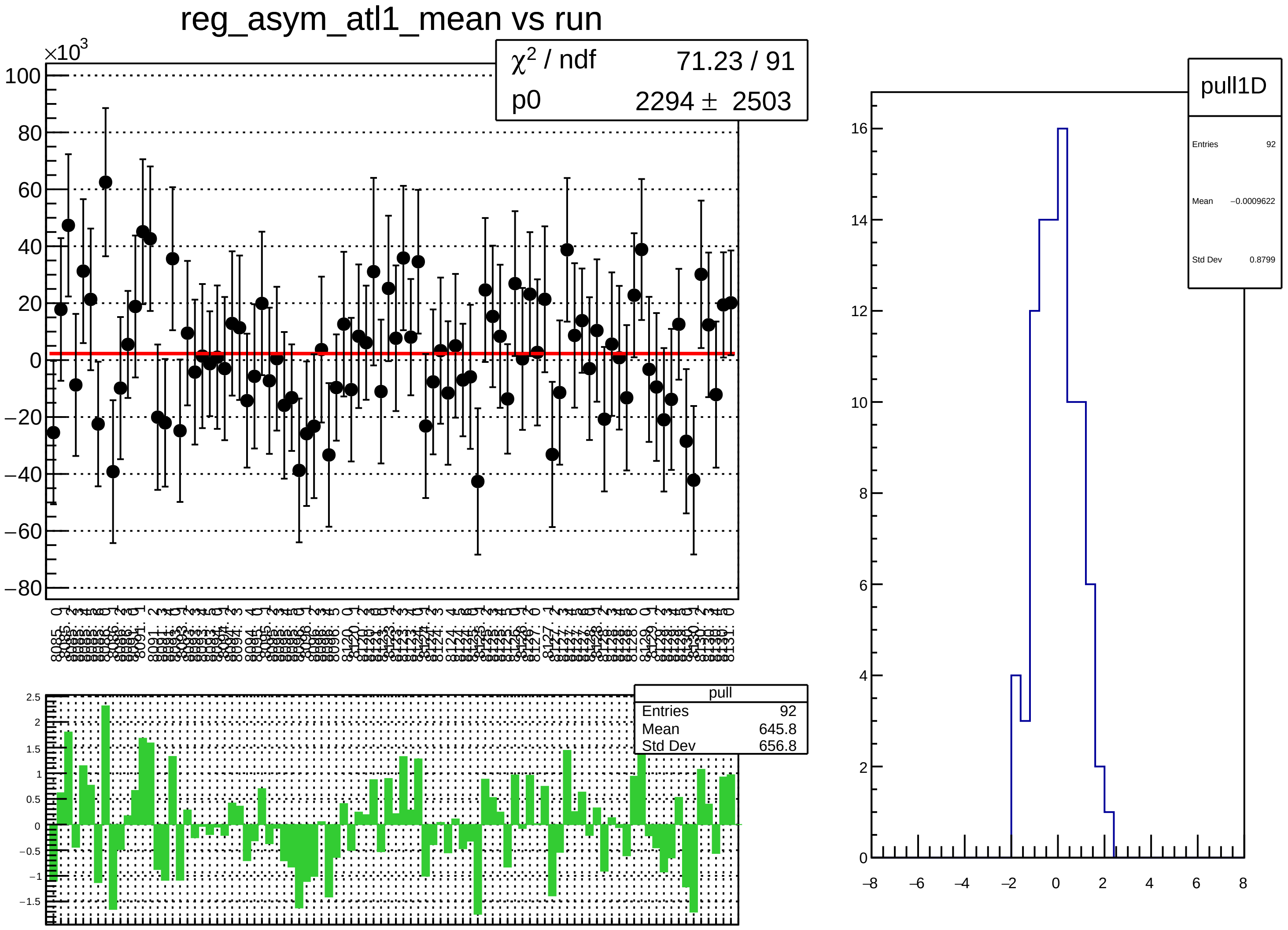


asym_us_agg_avg_rms vs run
χ^2 / ndf 5315 / 91
p0 1716 ± 1.266
2300
2200
2100
2000
1900
1800
1700
1600
1500

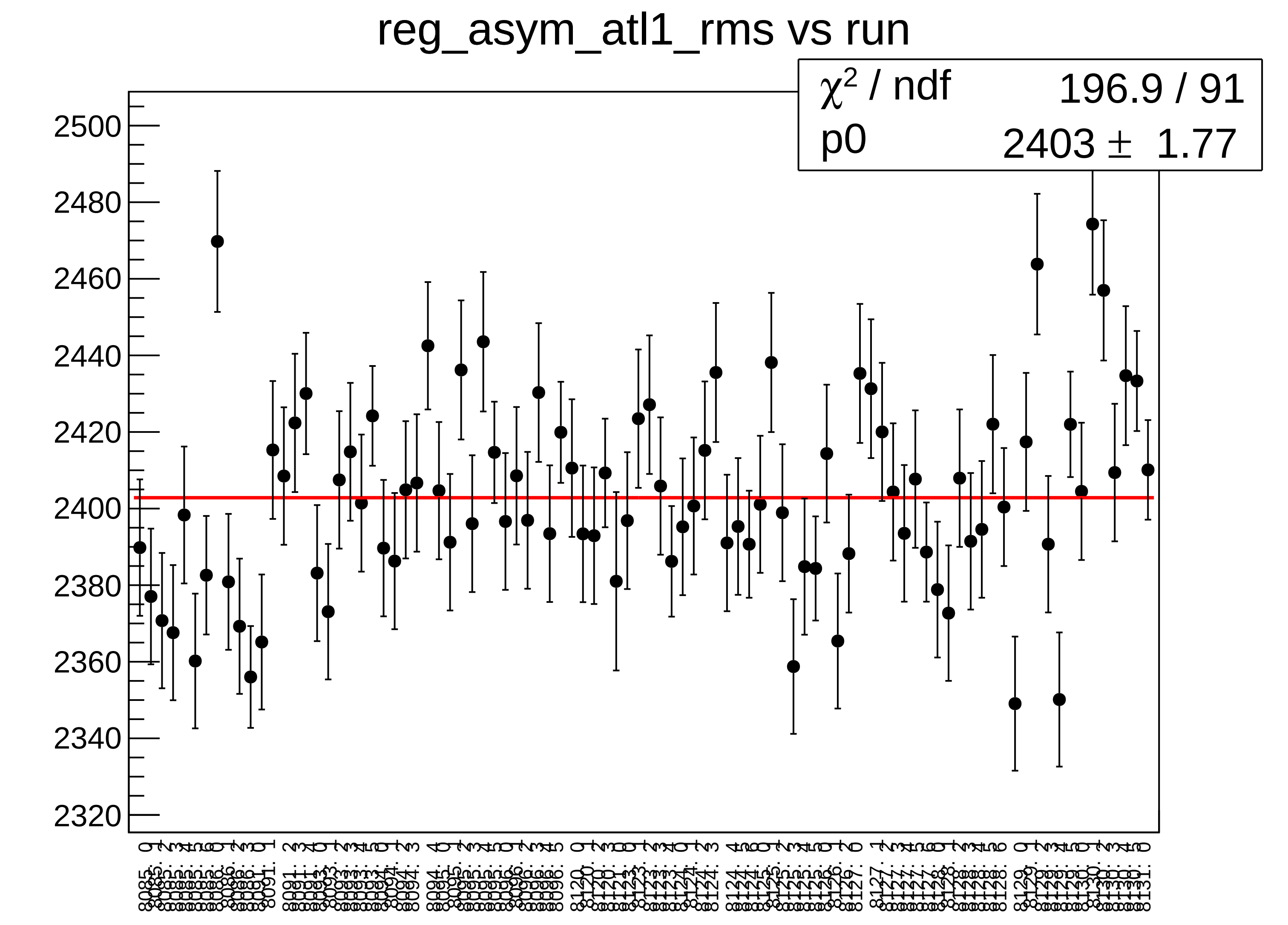


asym_us_agg_dd_mean vs run
χ^2 / ndf 62.67 / 91
p0 2413 ± 1486
pull
Entries 92
Mean 65.09
Std Dev 99.34
pull1D
Entries 92
Mean −0.005798
Std Dev 0.8253

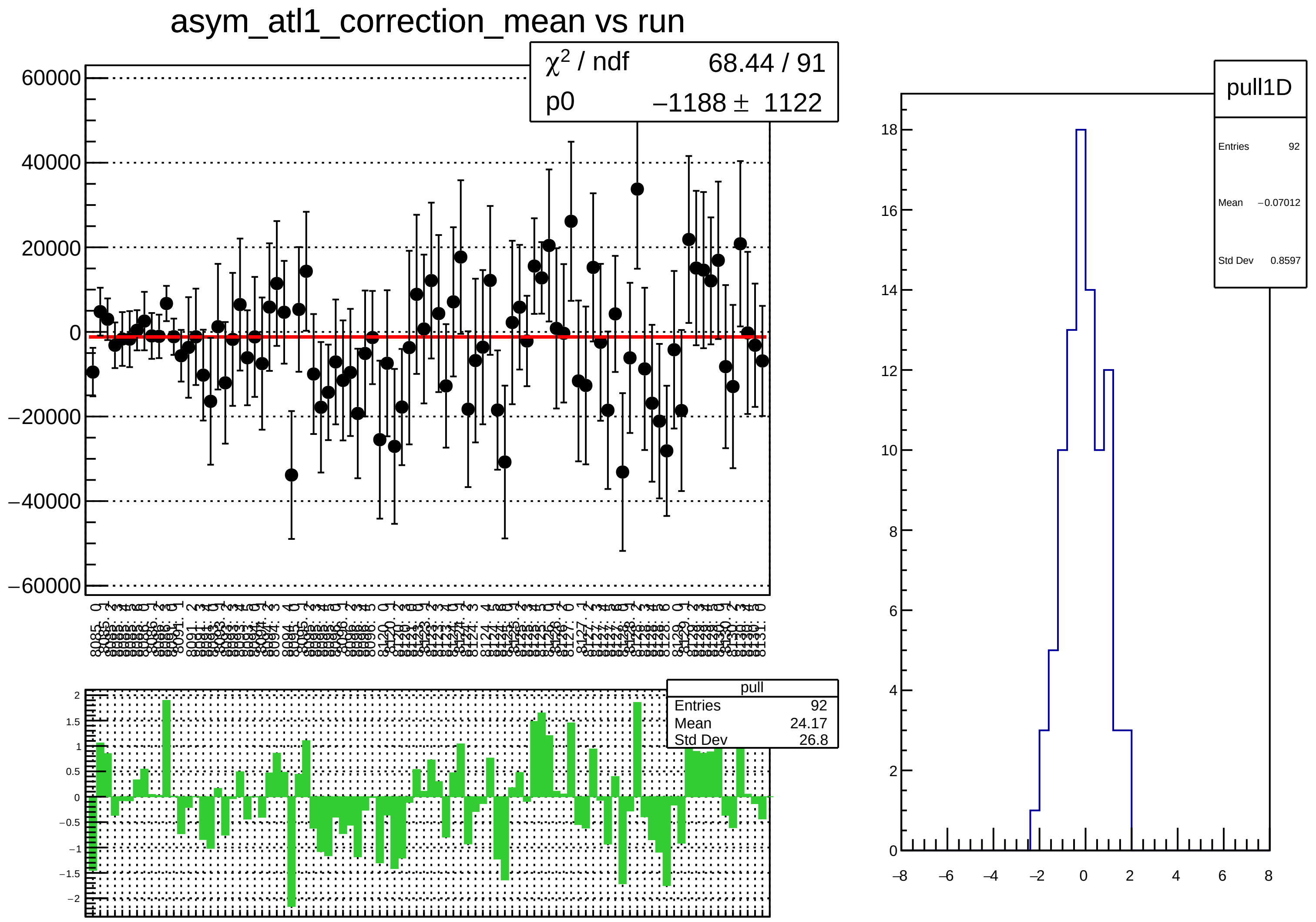

asym_us_agg_dd_rms vs run
χ2 / ndf 2845 / 91
p0 1425 ± 1.051
1800
1700
1600
1500
1400
1300



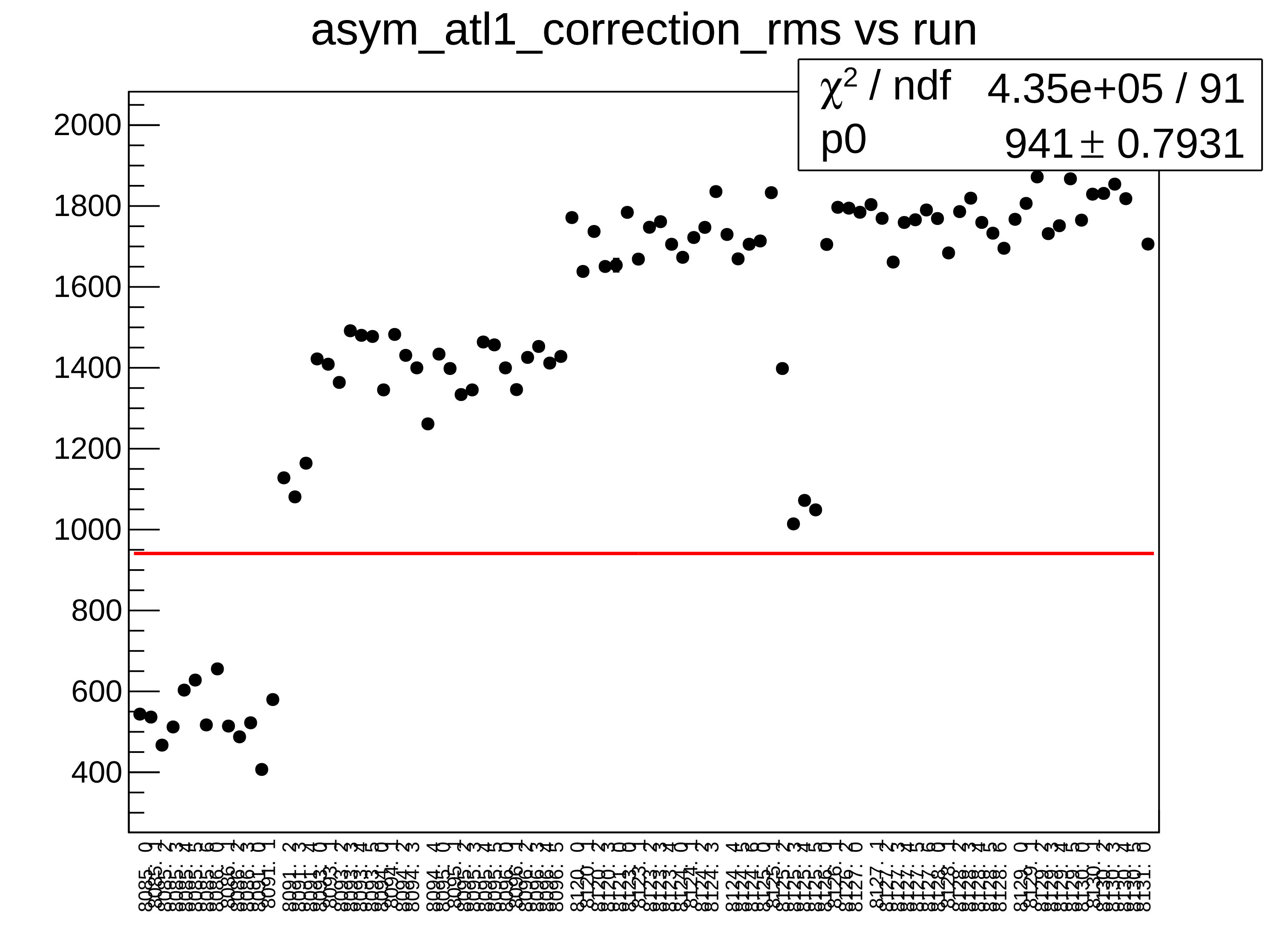
reg_asym_atl1_mean vs run
χ2 / ndf 71.23 / 91
p0 2294 ± 2503
×10^3
pull
Entries 92
Mean 645.8
Std Dev 656.8
pull1D
Entries 92
Mean −0.0009622
Std Dev 0.8799

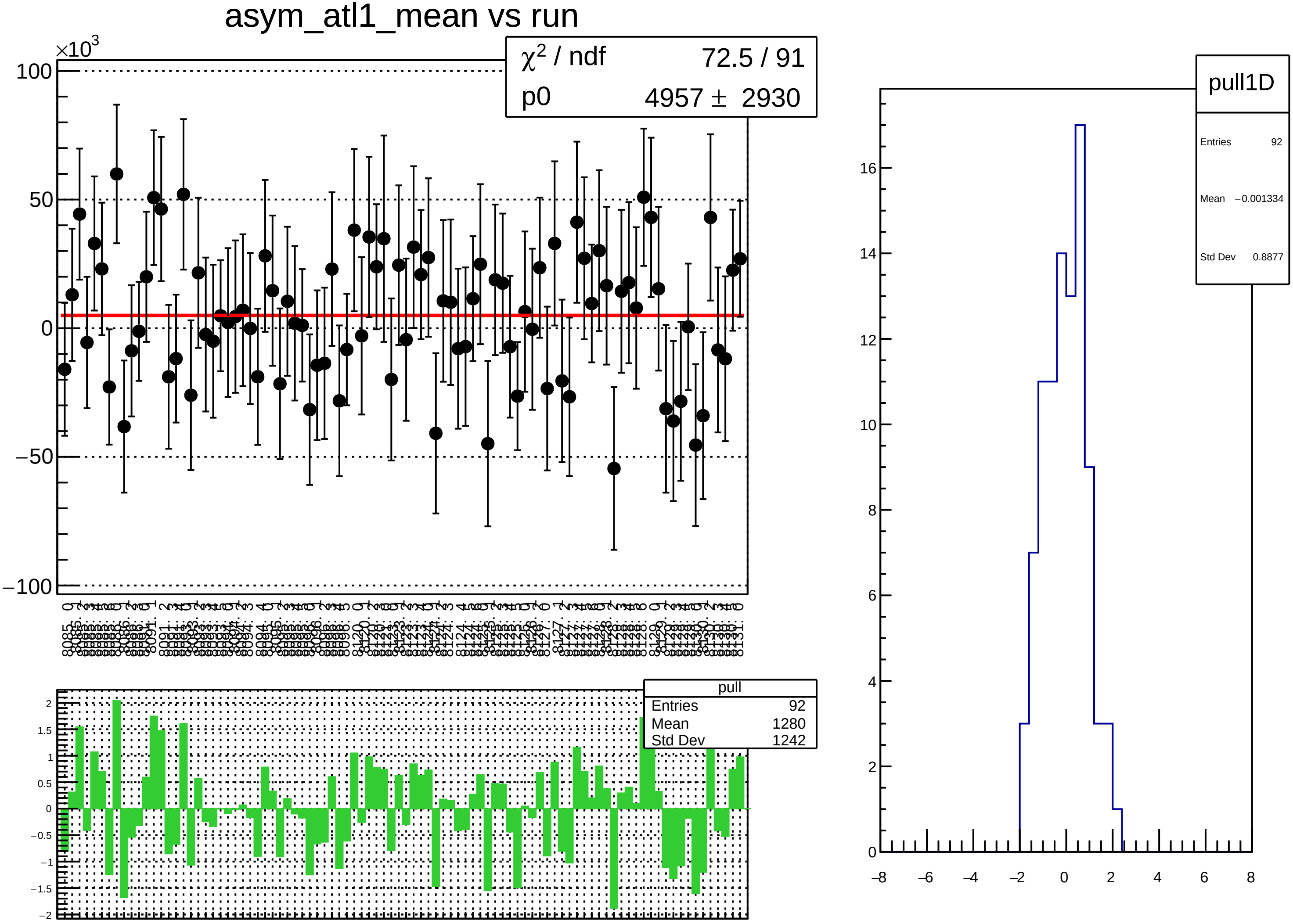


reg_asym_atl1_rms vs run
χ^2 / ndf 196.9 / 91
p0 2403 ± 1.77

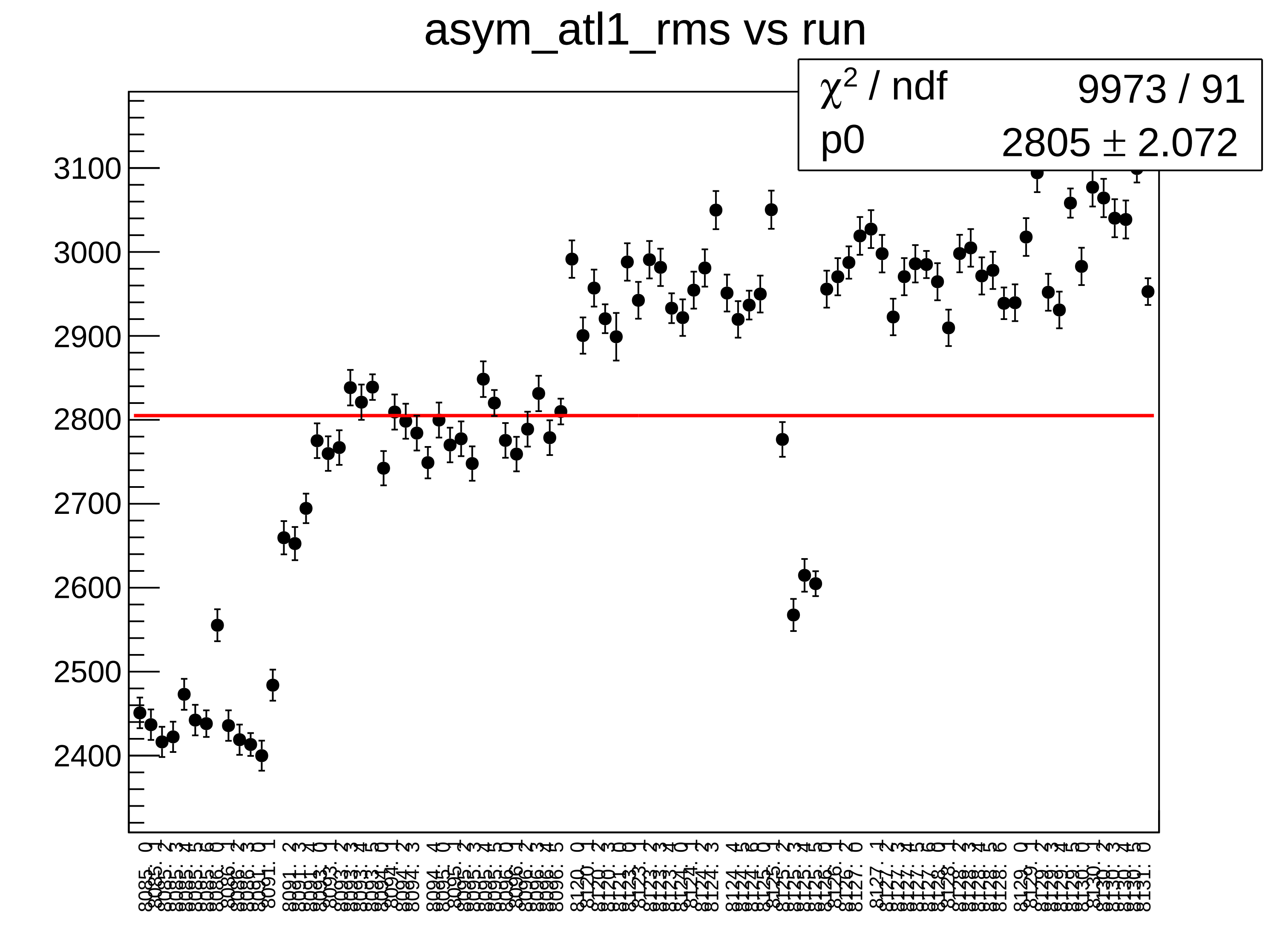


asym_atl1_correction_mean vs run
χ^2 / ndf 68.44 / 91
p0 −1188 ± 1122
pull
Entries 92
Mean 24.17
Std Dev 26.8
pull1D
Entries 92
Mean −0.07012
Std Dev 0.8597

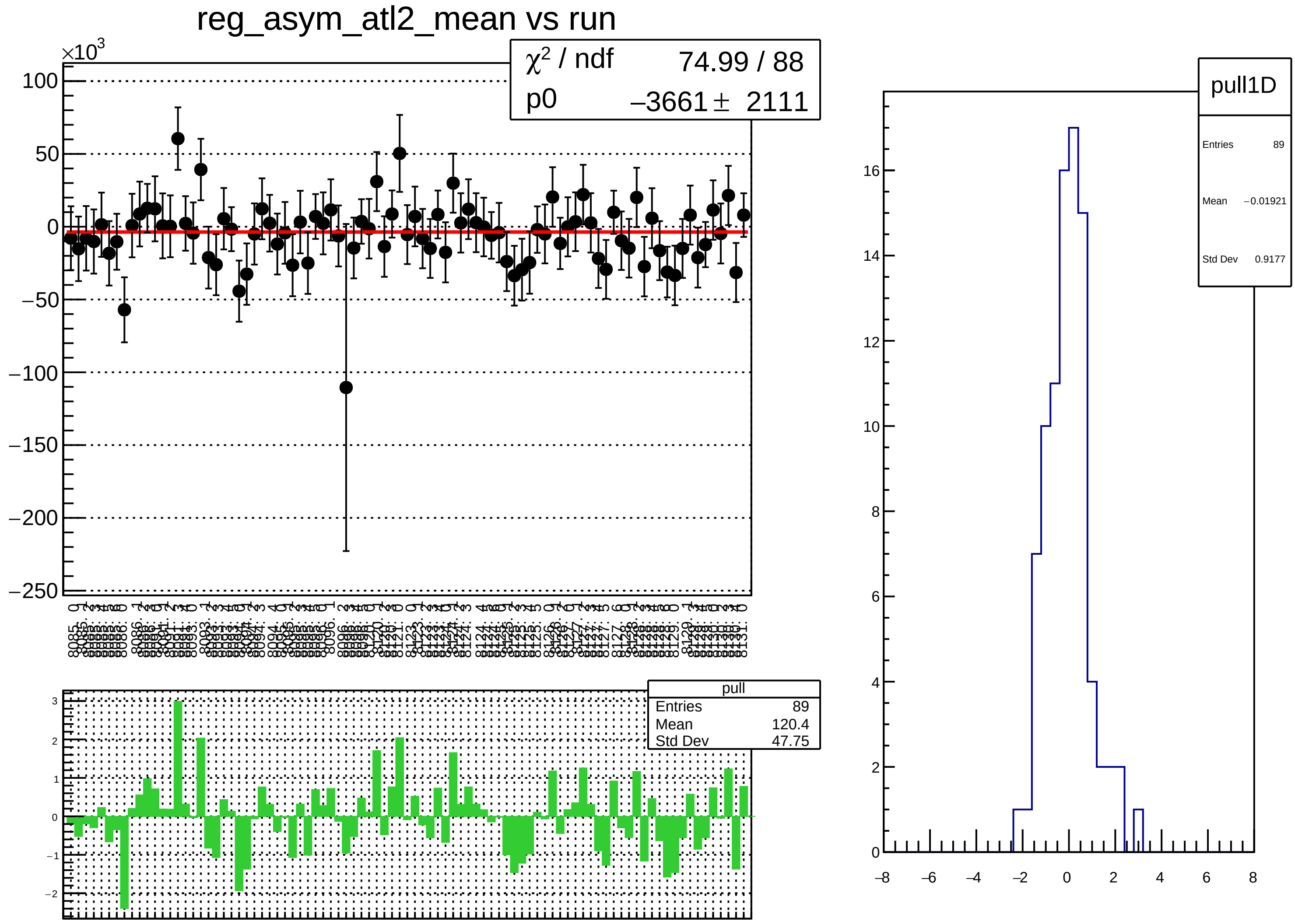

asym_atl1_correction_rms vs run
χ^2 / ndf 4.35e+05 / 91
p0 941 ± 0.7931



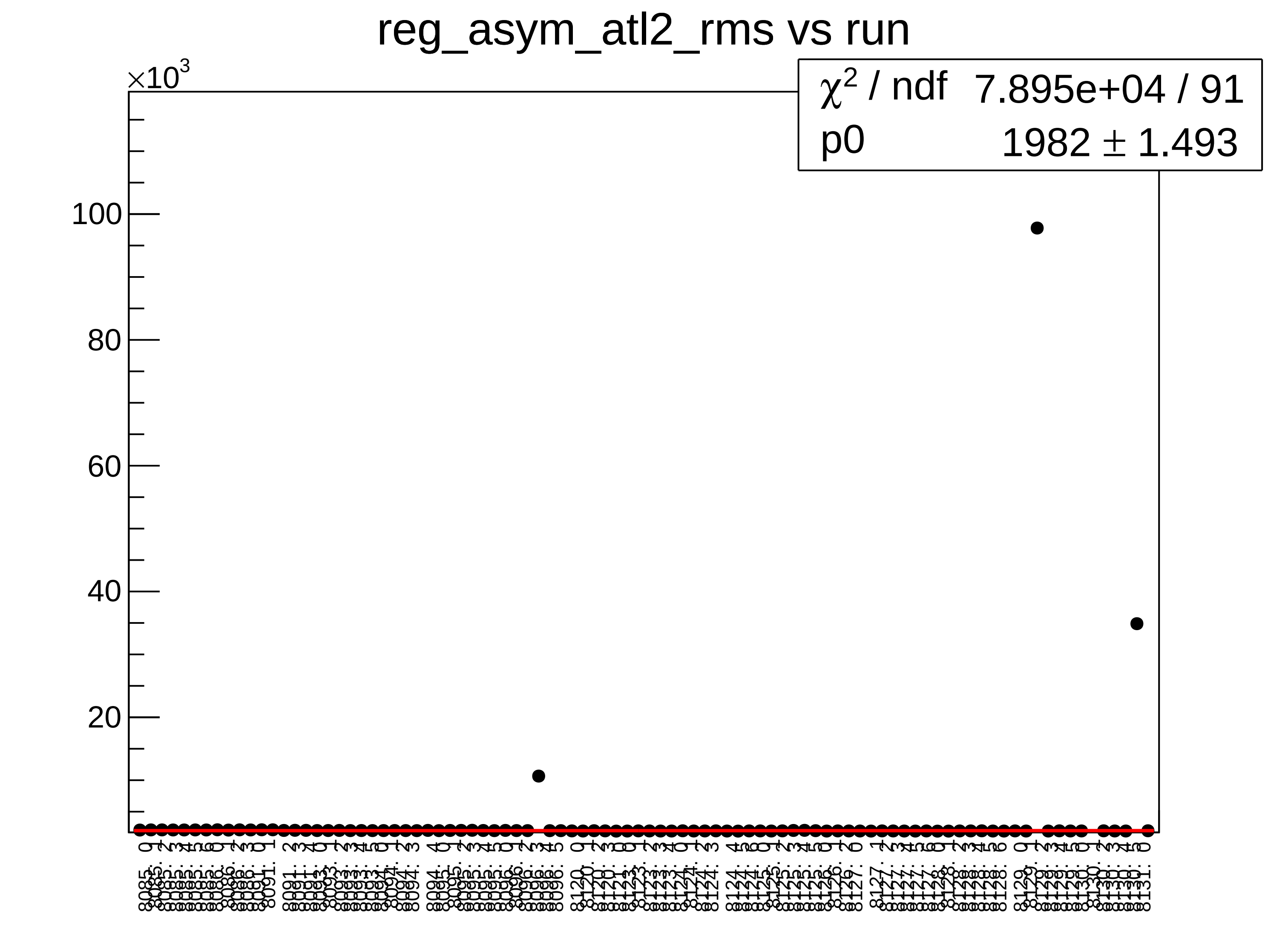
asym_atl1_mean vs run
$\times 10^3$
χ^2 / ndf 72.5 / 91
p0 4957 ± 2930
100
50
0
−50
−100
pull
Entries 92
Mean 1280
Std Dev 1242
pull1D
Entries 92
Mean −0.001334
Std Dev 0.8877

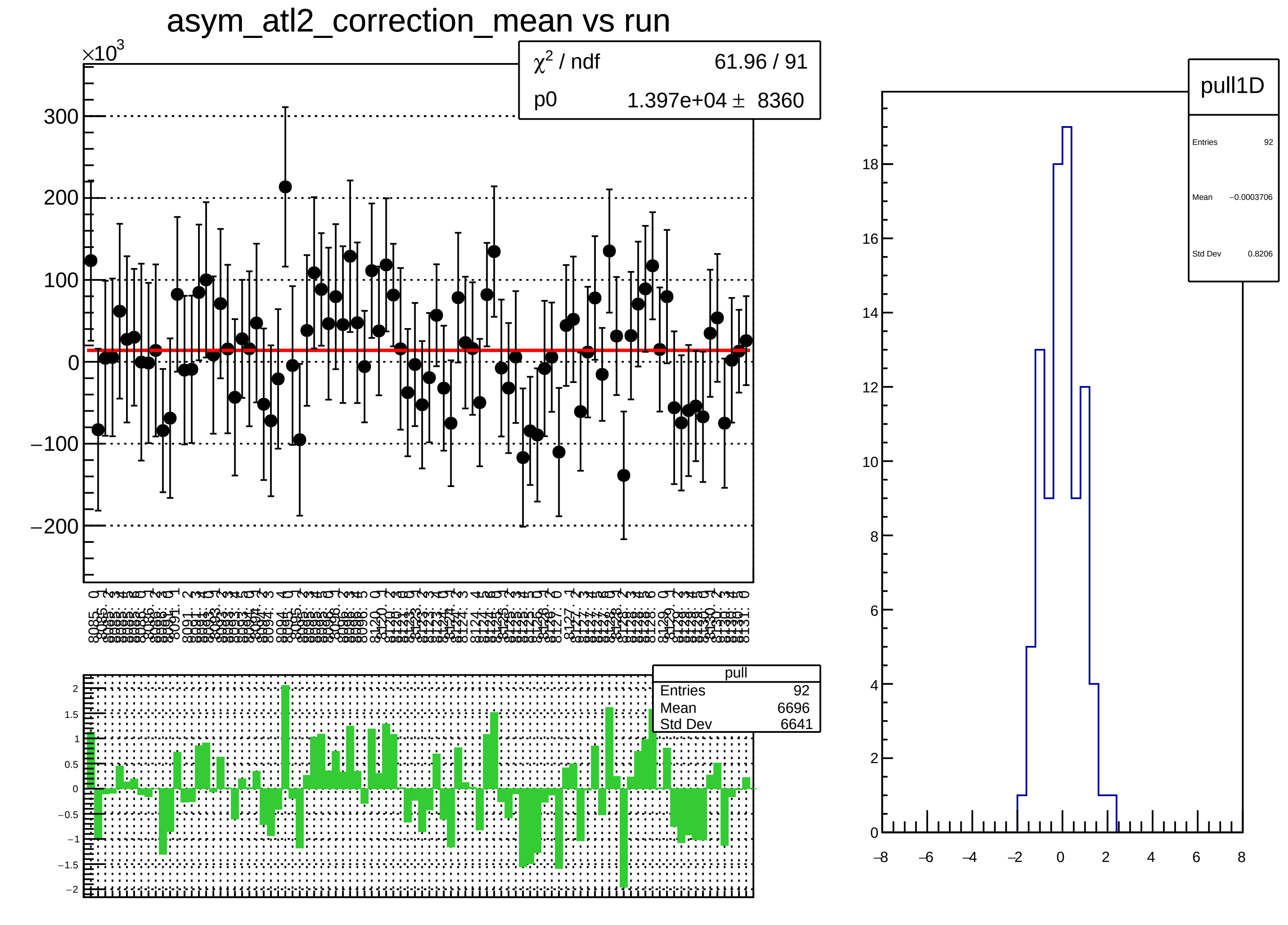


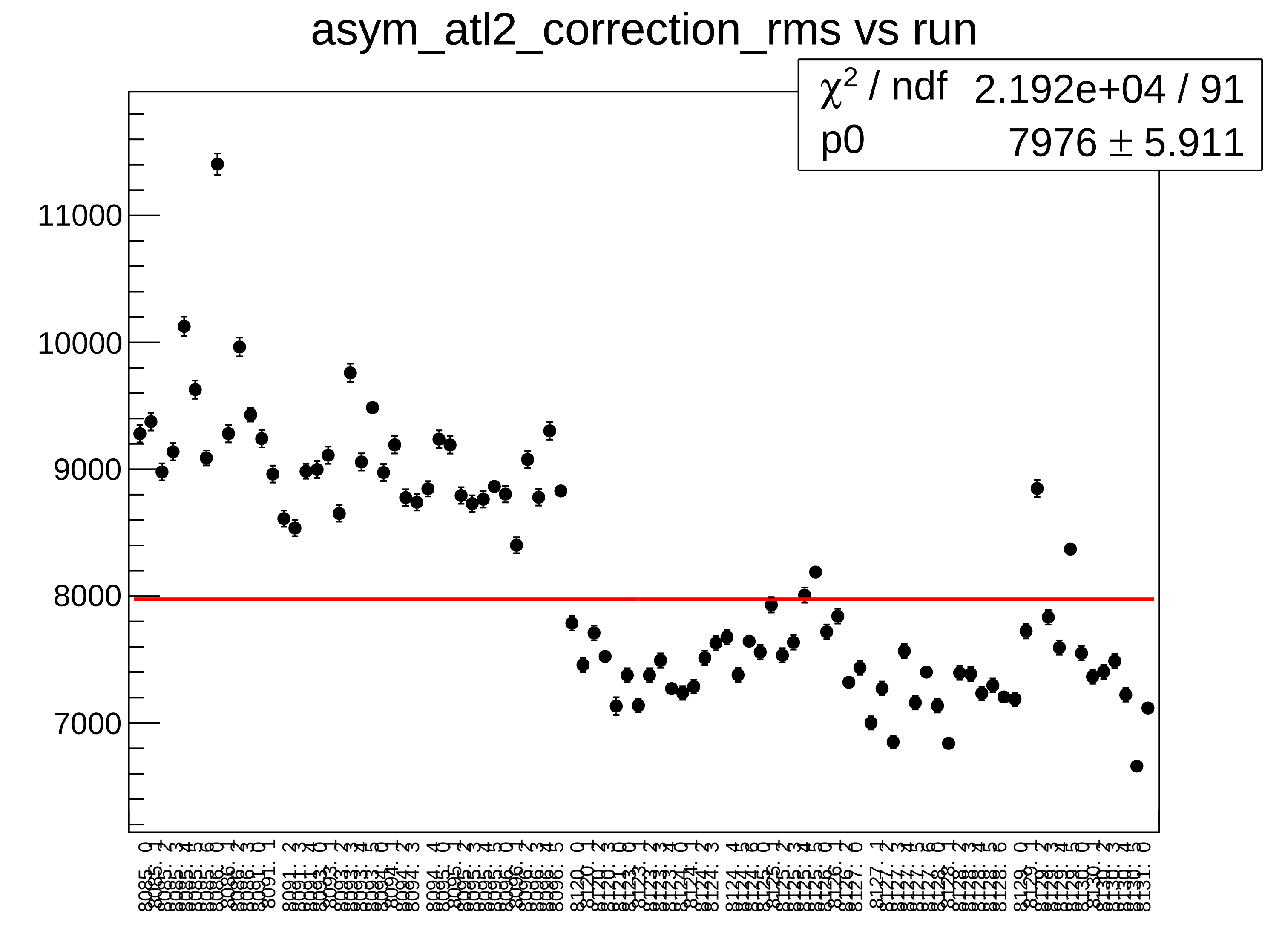
asym_atl1_rms vs run
χ^2 / ndf 9973 / 91
p0 2805 ± 2.072
3100
3000
2900
2800
2700
2600
2500
2400

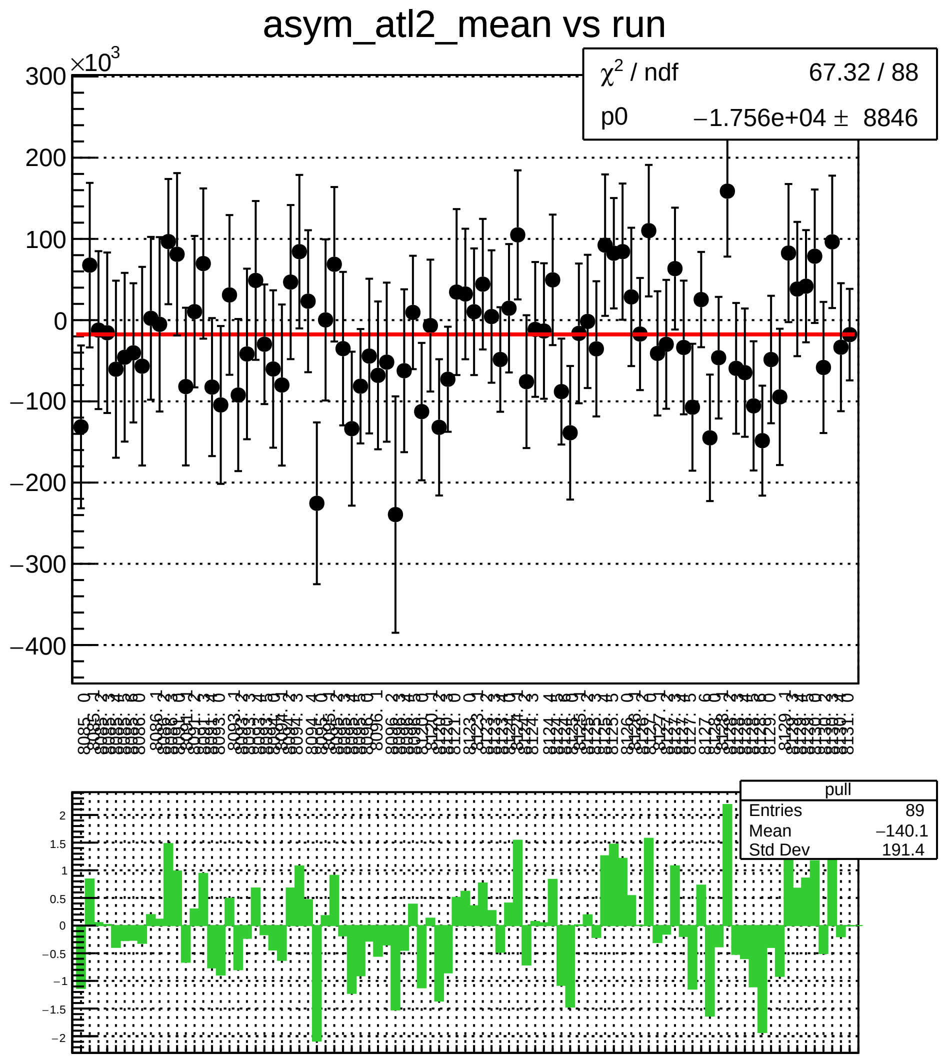


reg_asym_atl2_mean vs run
×10^3
χ2 / ndf 74.99 / 88
p0 −3661 ± 2111
100
50
0
−50
−100
−150
−200
−250
pull
Entries 89
Mean 120.4
Std Dev 47.75
pull1D
Entries 89
Mean −0.01921
Std Dev 0.9177

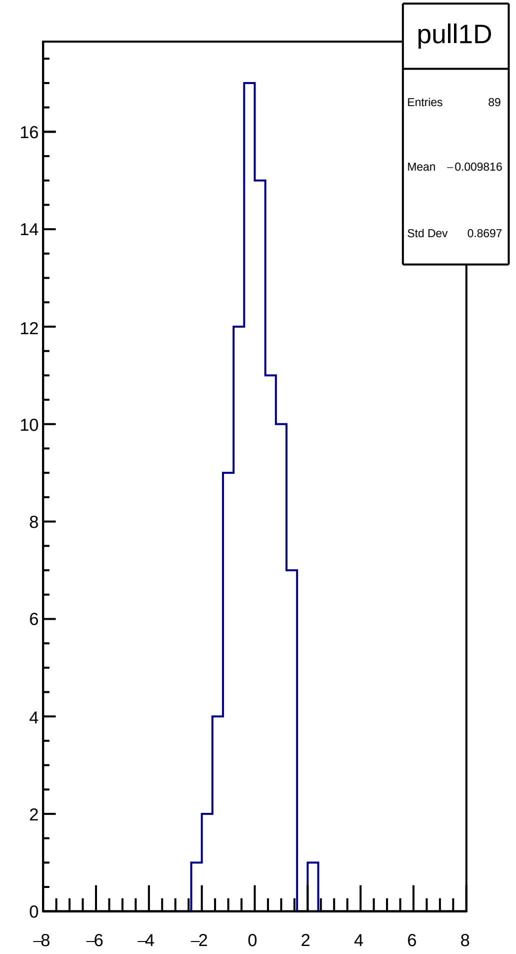

reg_asym_atl2_rms vs run
$\times 10^{3}$
χ^2 / ndf 7.895e+04 / 91
p0 1982 ± 1.493
100
80
60
40
20


asym_atl2_correction_mean vs run
×10^3
χ2 / ndf 61.96 / 91
p0 1.397e+04 ± 8360
300
200
100
0
−100
−200
pull
Entries 92
Mean 6696
Std Dev 6641
pull1D
Entries 92
Mean −0.0003706
Std Dev 0.8206
−8 −6 −4 −2 0 2 4 6 8

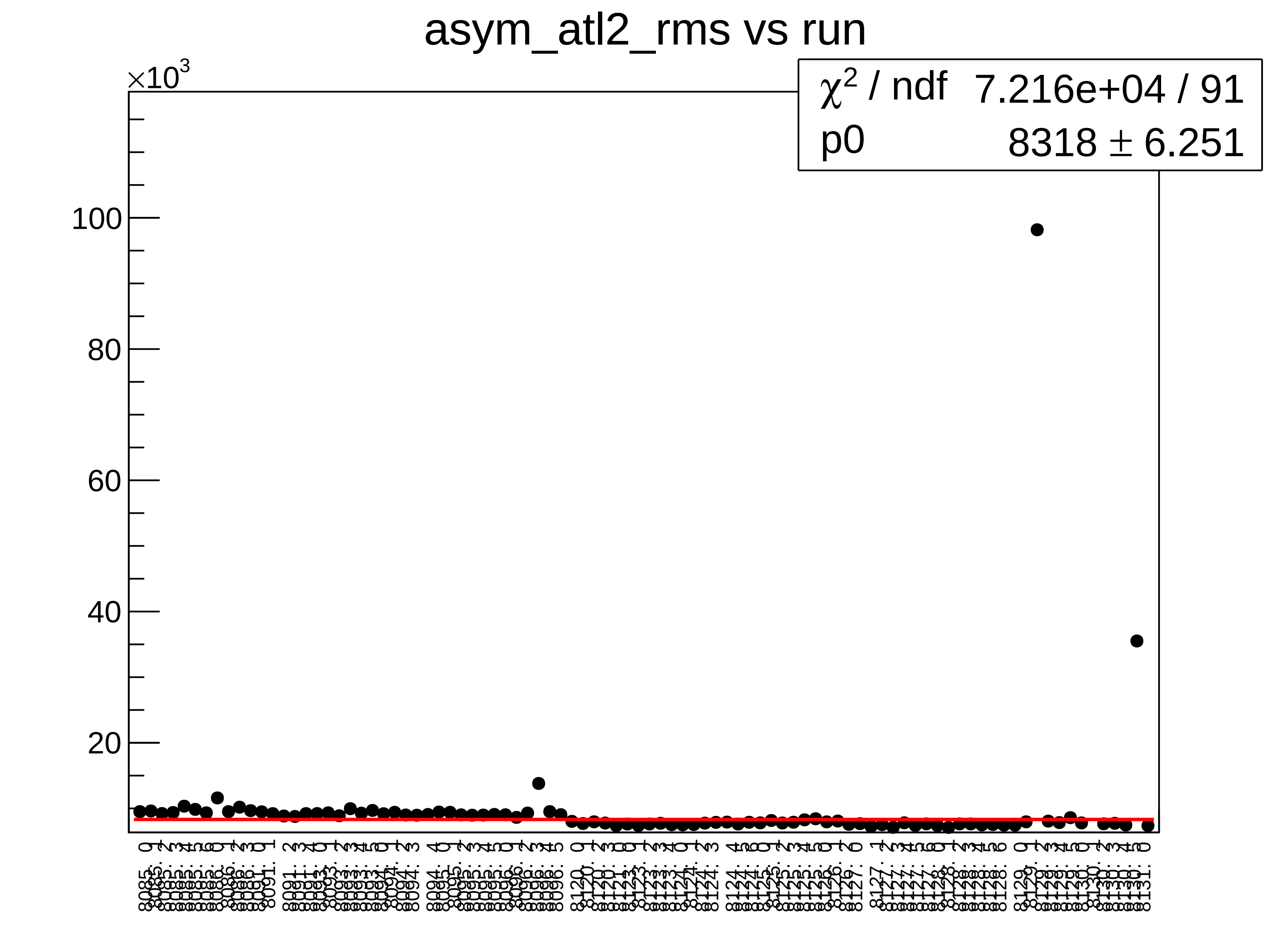

asym_atl2_correction_rms vs run
χ² / ndf 2.192e+04 / 91
p0 7976 ± 5.911
11000
10000
9000
8000
7000

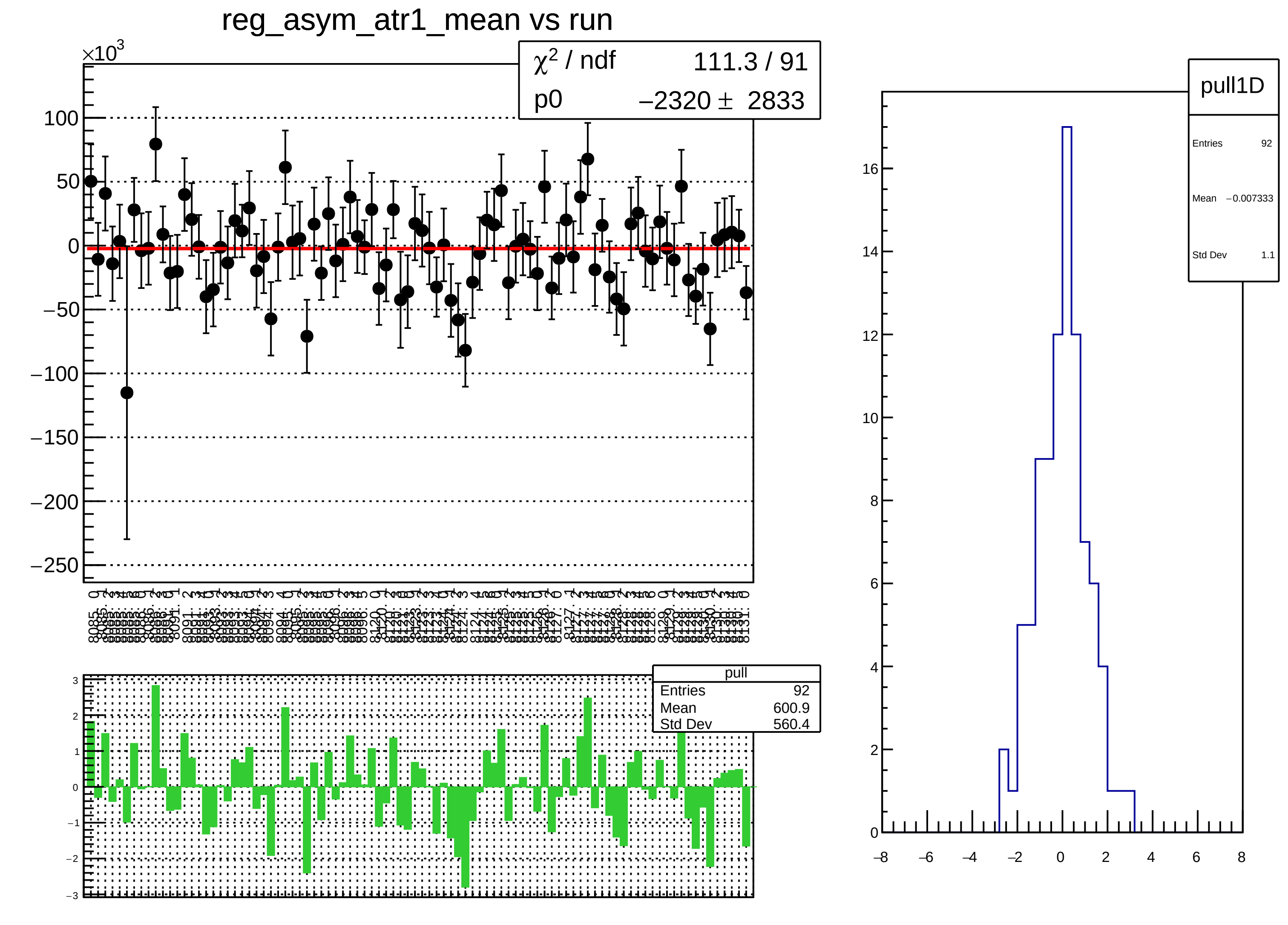


asym_atl2_mean vs run
χ^2 / ndf 67.32 / 88
p0 −1.756e+04 ± 8846
×10^3
pull
Entries 89
Mean −140.1
Std Dev 191.4

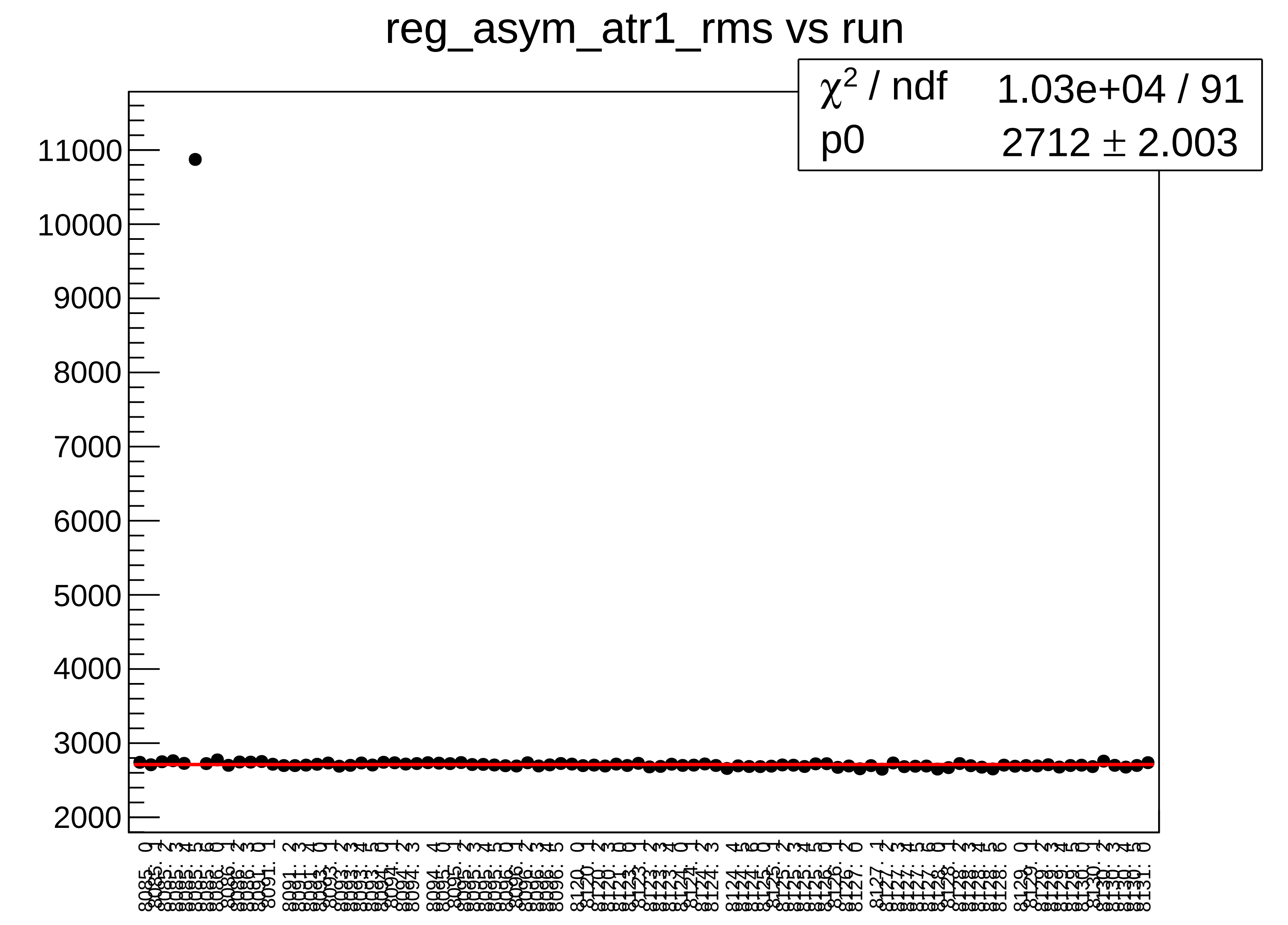


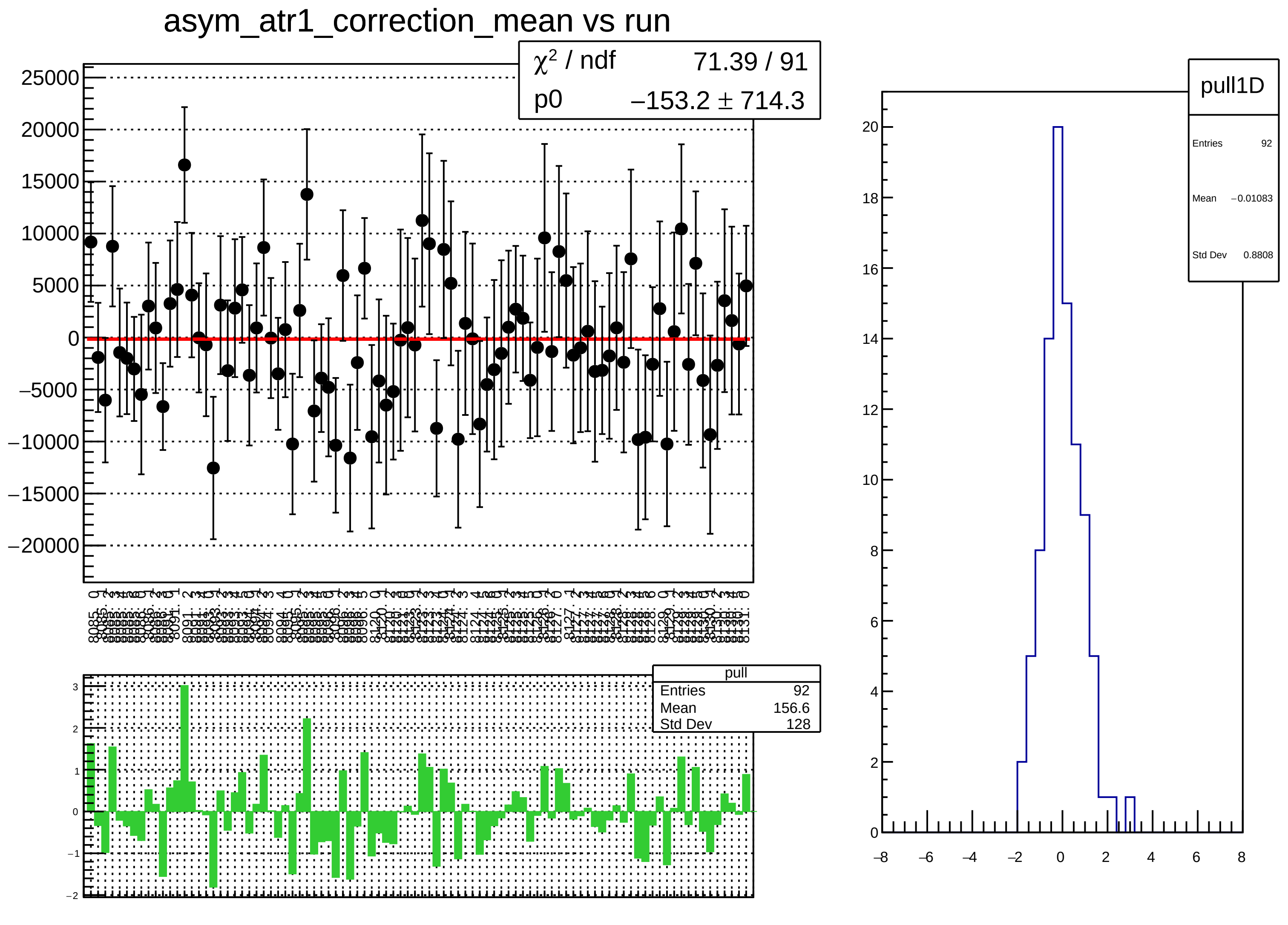
pull1D
Entries 89
Mean −0.009816
Std Dev 0.8697


asym_atl2_rms vs run
×10^3
χ2 / ndf 7.216e+04 / 91
p0 8318 ± 6.251
100
80
60
40
20

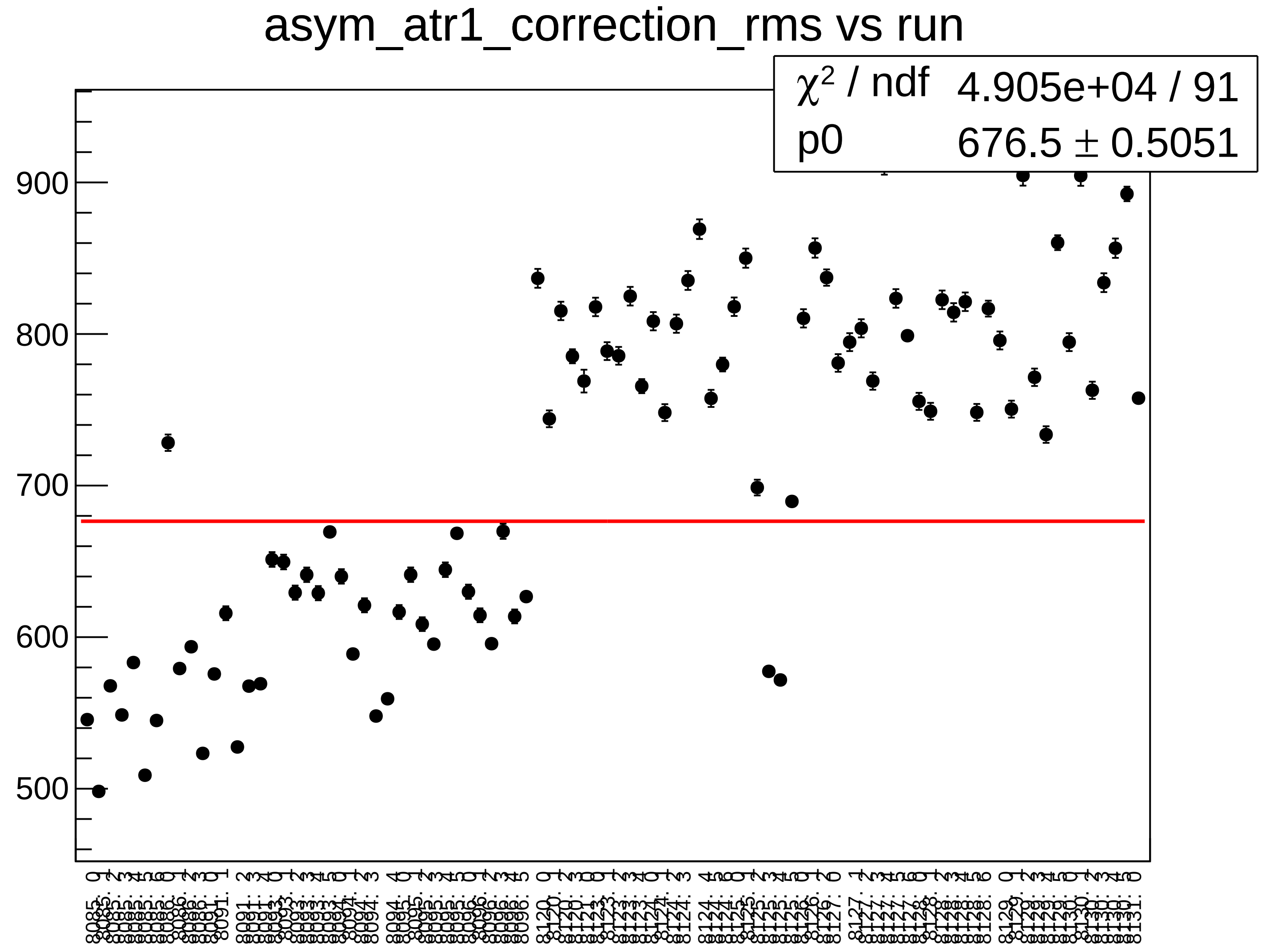


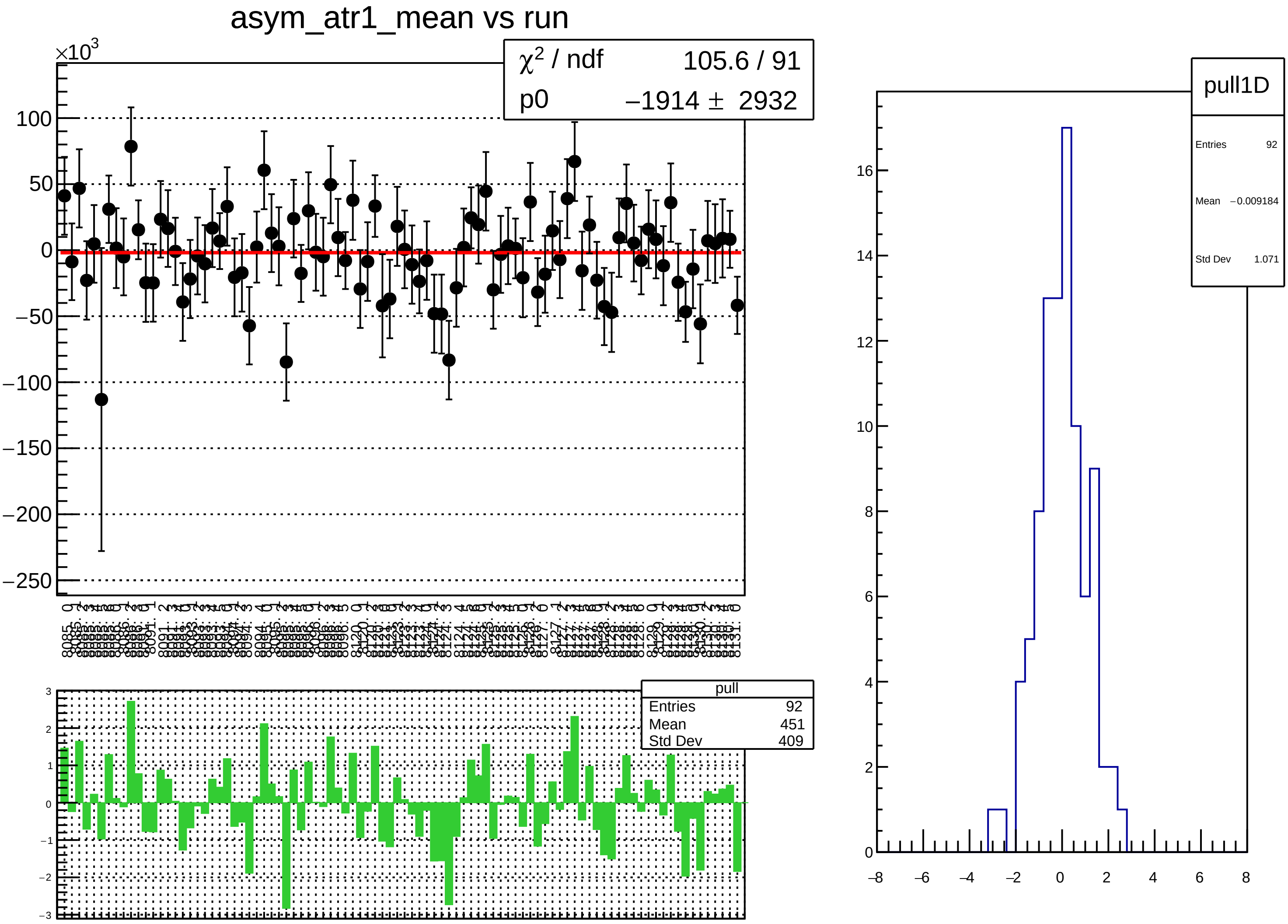
reg_asym_atr1_mean vs run
×10^3
χ^2 / ndf 111.3 / 91
p0 −2320 ± 2833
pull
Entries 92
Mean 600.9
Std Dev 560.4
pull1D
Entries 92
Mean −0.007333
Std Dev 1.1


reg_asym_atr1_rms vs run
χ2 / ndf 1.03e+04 / 91
p0 2712 ± 2.003
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

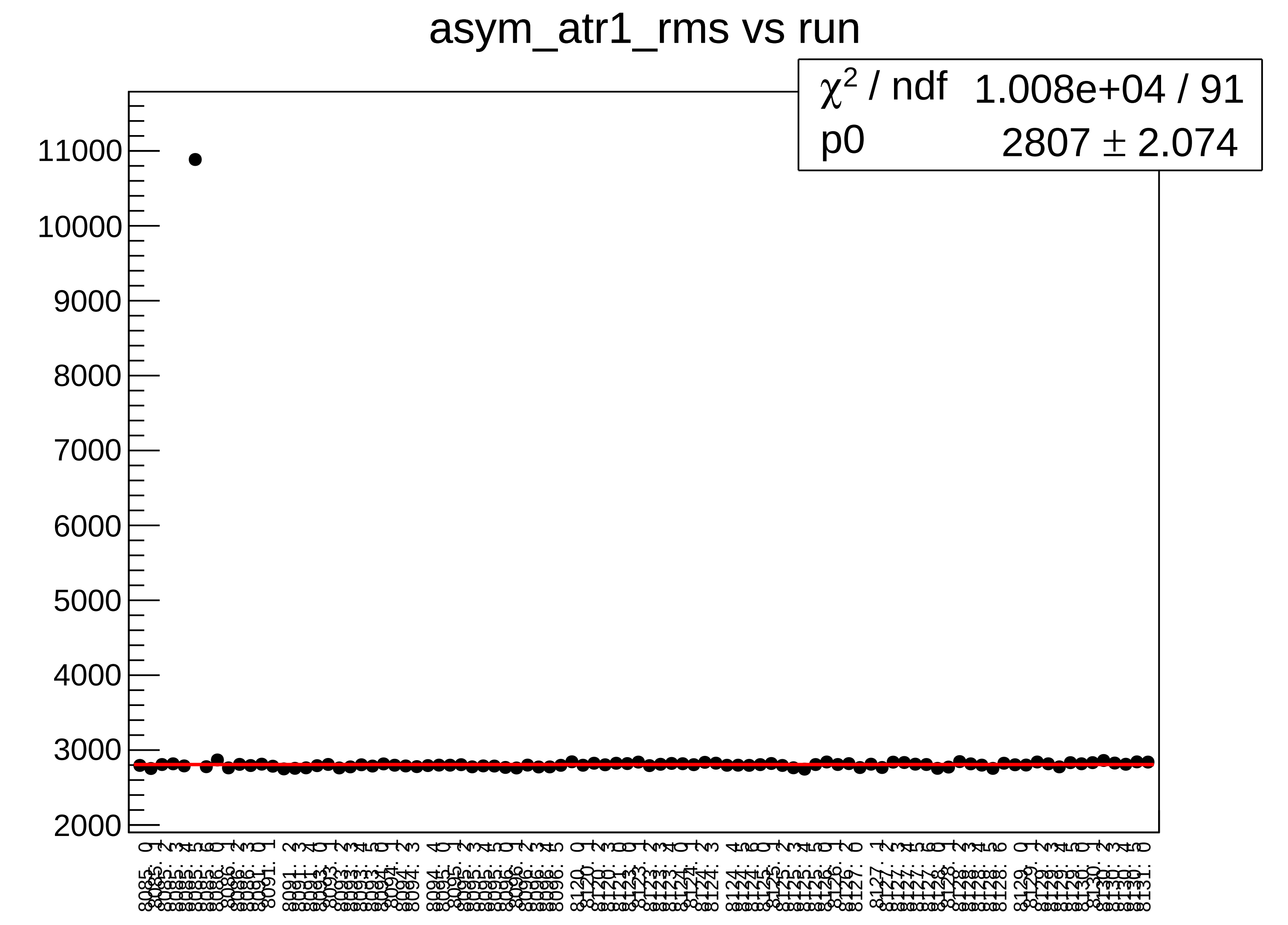


asym_atr1_correction_mean vs run
χ^2 / ndf 71.39 / 91
p0 −153.2 ± 714.3
pull
Entries 92
Mean 156.6
Std Dev 128
pull1D
Entries 92
Mean −0.01083
Std Dev 0.8808

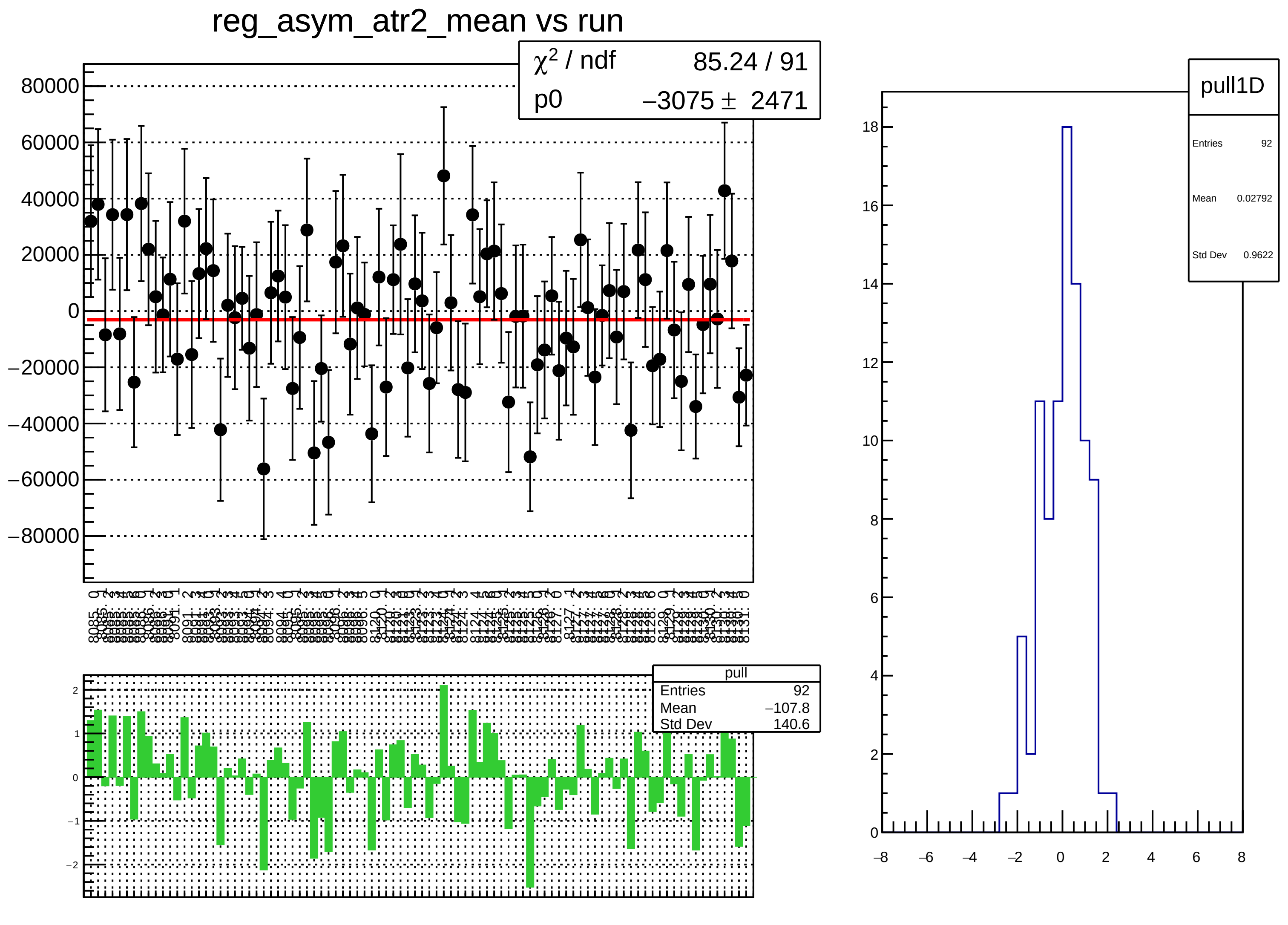

asym_atr1_correction_rms vs run
χ2 / ndf 4.905e+04 / 91
p0 676.5 ± 0.5051
900
800
700
600
500



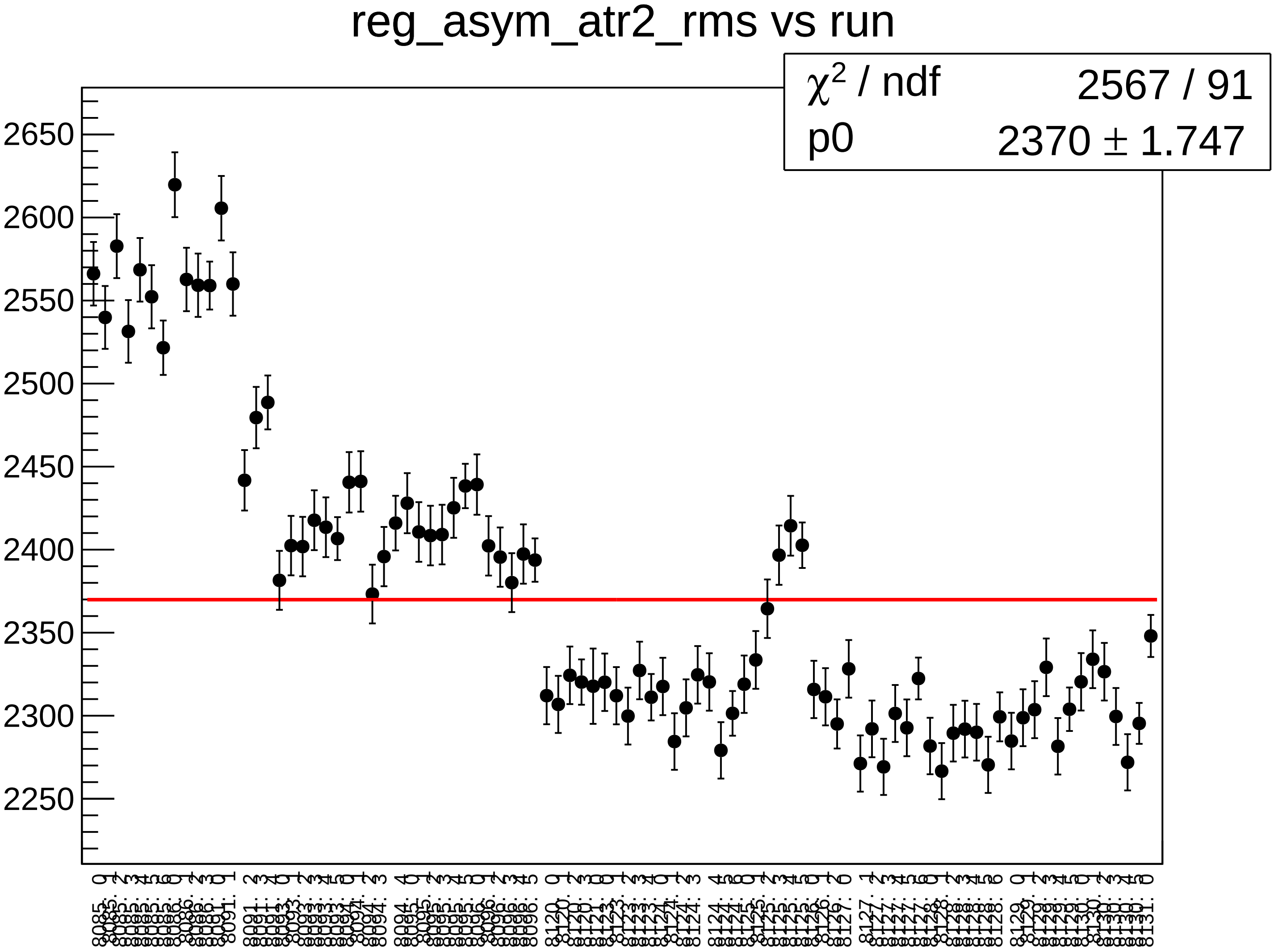
asym_atr1_mean vs run
$\times10^{3}$
χ^2 / ndf 105.6 / 91
p0 −1914 ± 2932
100
50
0
−50
−100
−150
−200
−250
pull
Entries 92
Mean 451
Std Dev 409
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.009184
Std Dev 1.071
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



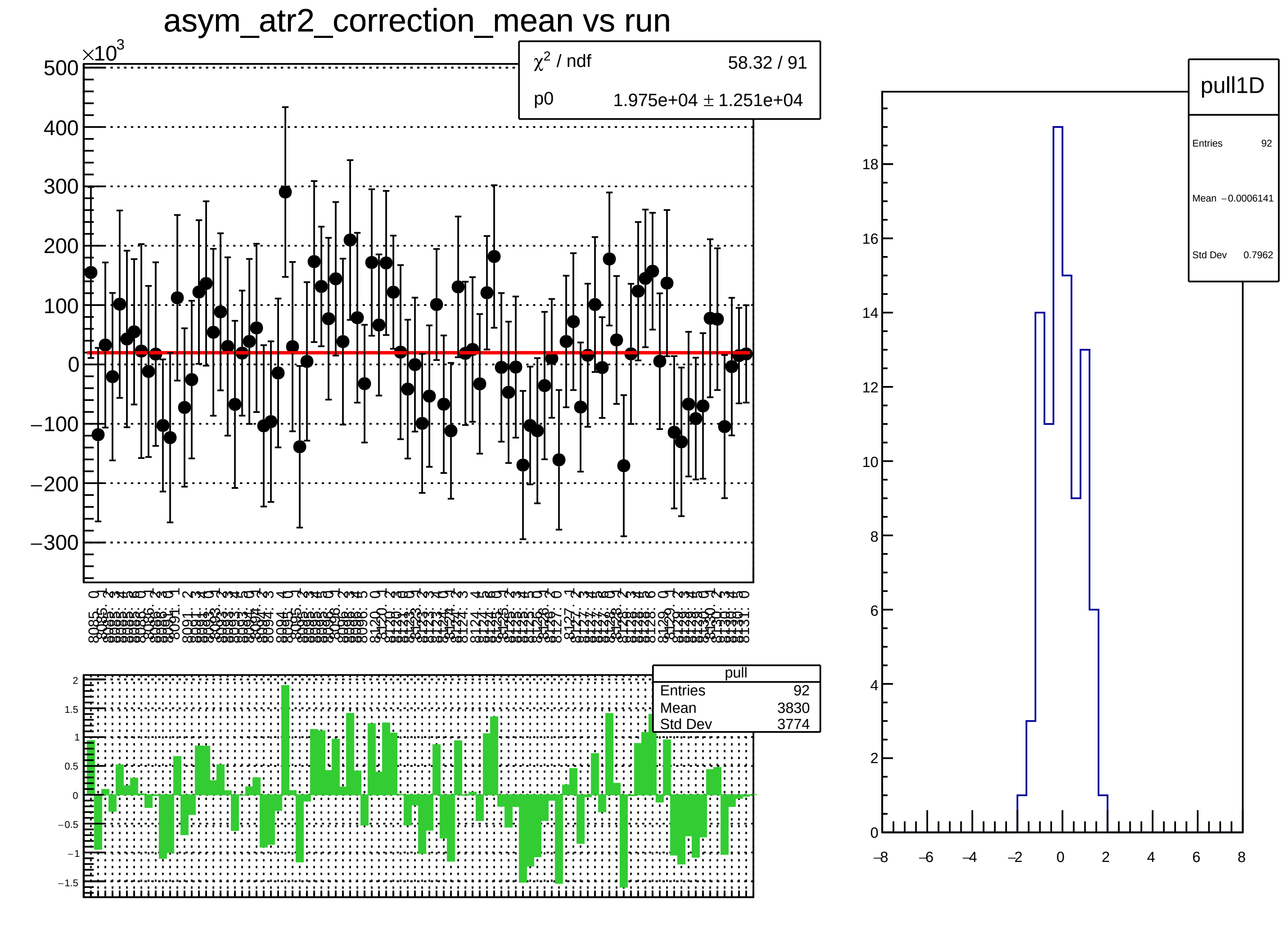
asym_atr1_rms vs run
χ^2 / ndf 1.008e+04 / 91
p0 2807 ± 2.074
11000
10000
9000
8000
7000
6000
5000
4000
3000
2000

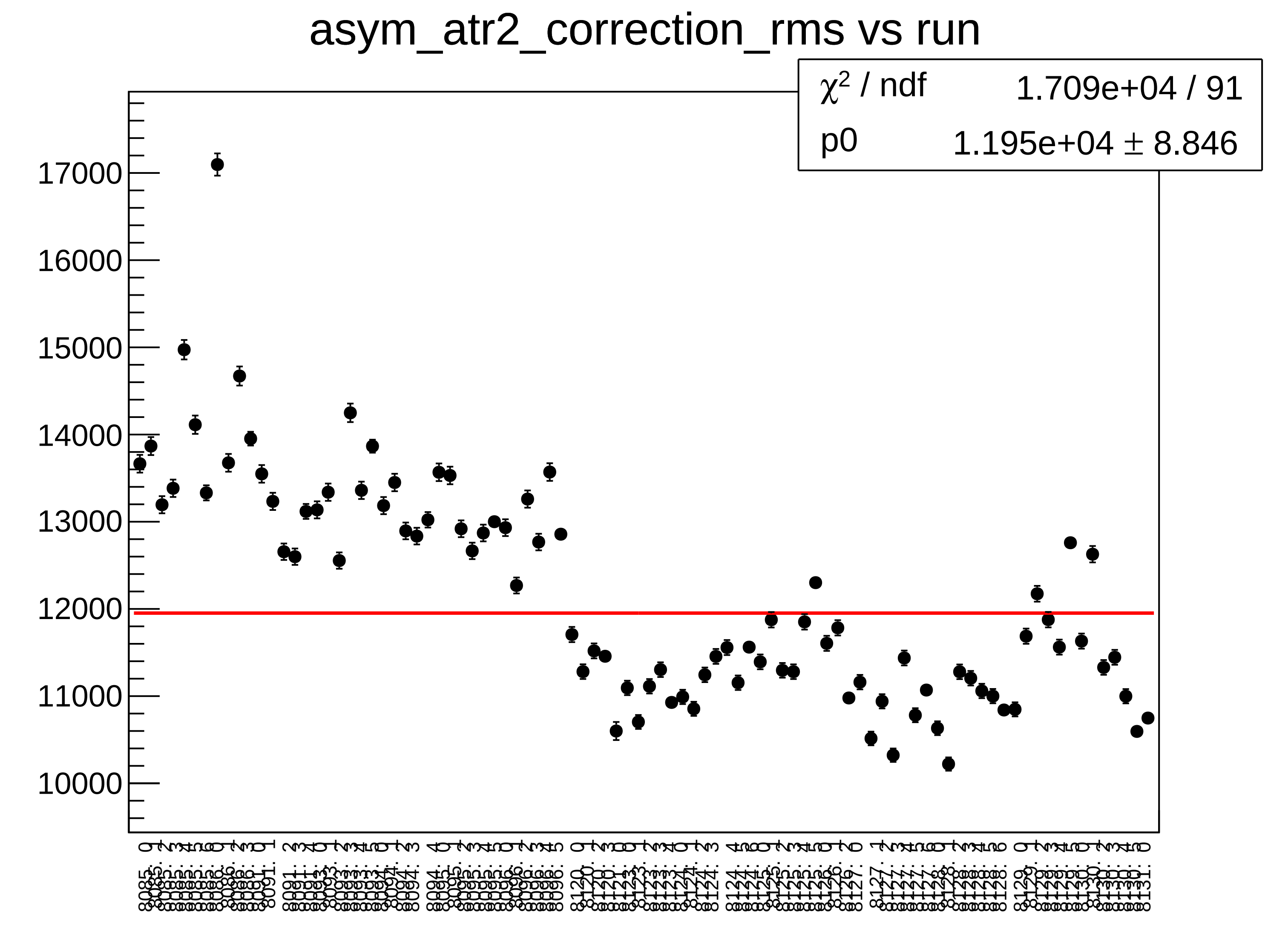


reg_asym_atr2_mean vs run
χ^2 / ndf 85.24 / 91
p0 −3075 ± 2471
80000
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −107.8
Std Dev 140.6
pull1D
Entries 92
Mean 0.02792
Std Dev 0.9622

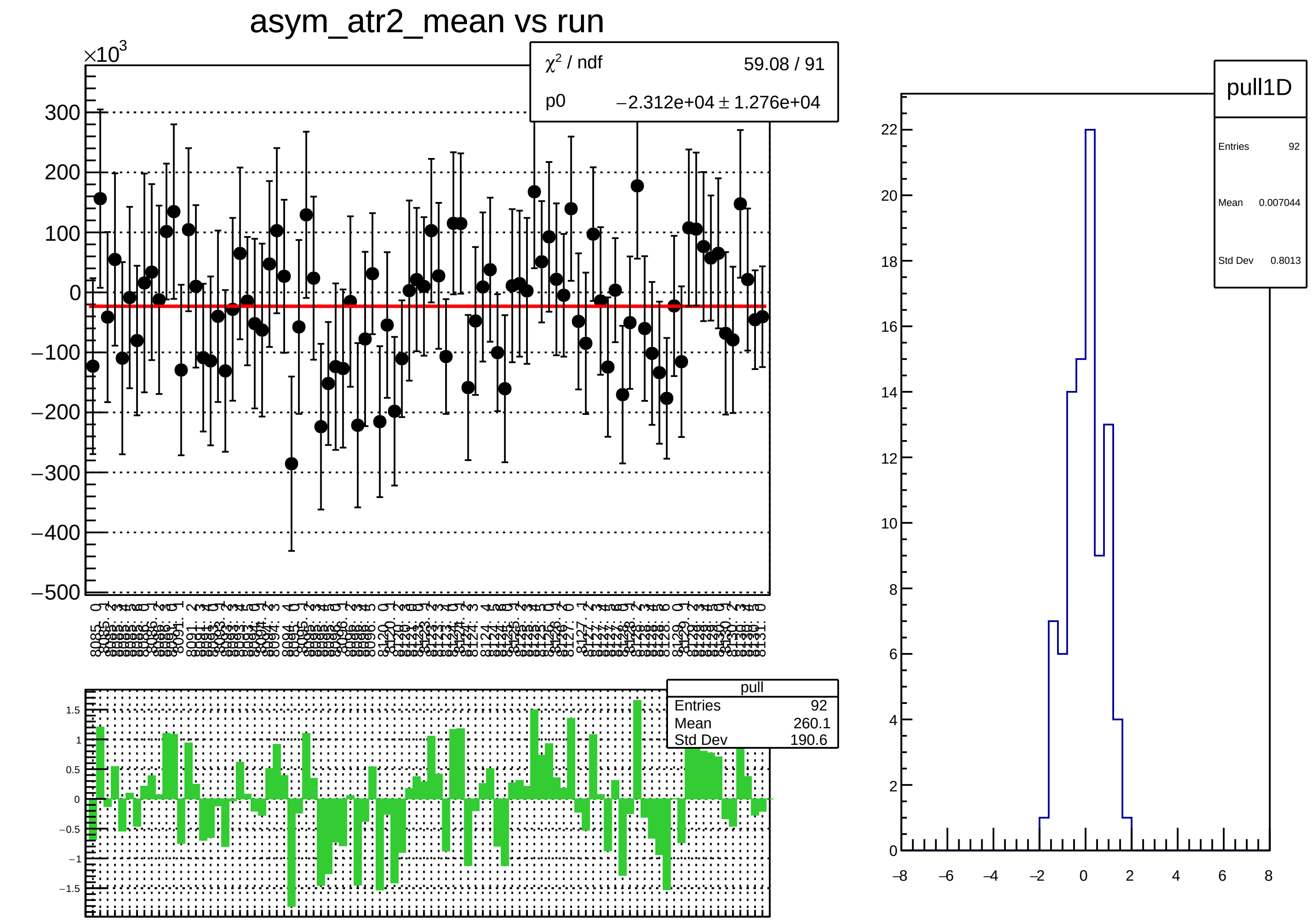


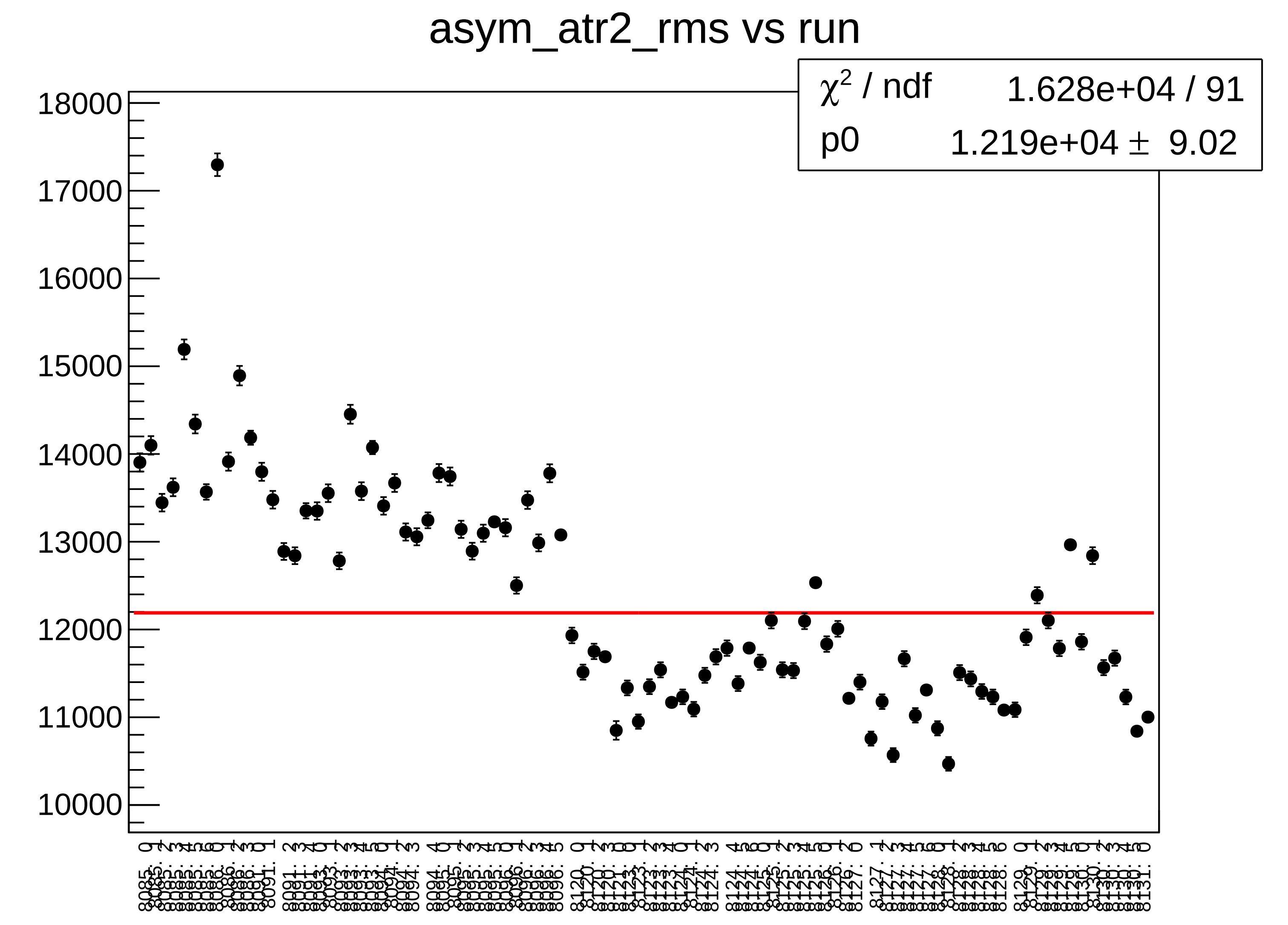
reg_asym_atr2_rms vs run
χ^2 / ndf 2567 / 91
p0 2370 ± 1.747
2650
2600
2550
2500
2450
2400
2350
2300
2250

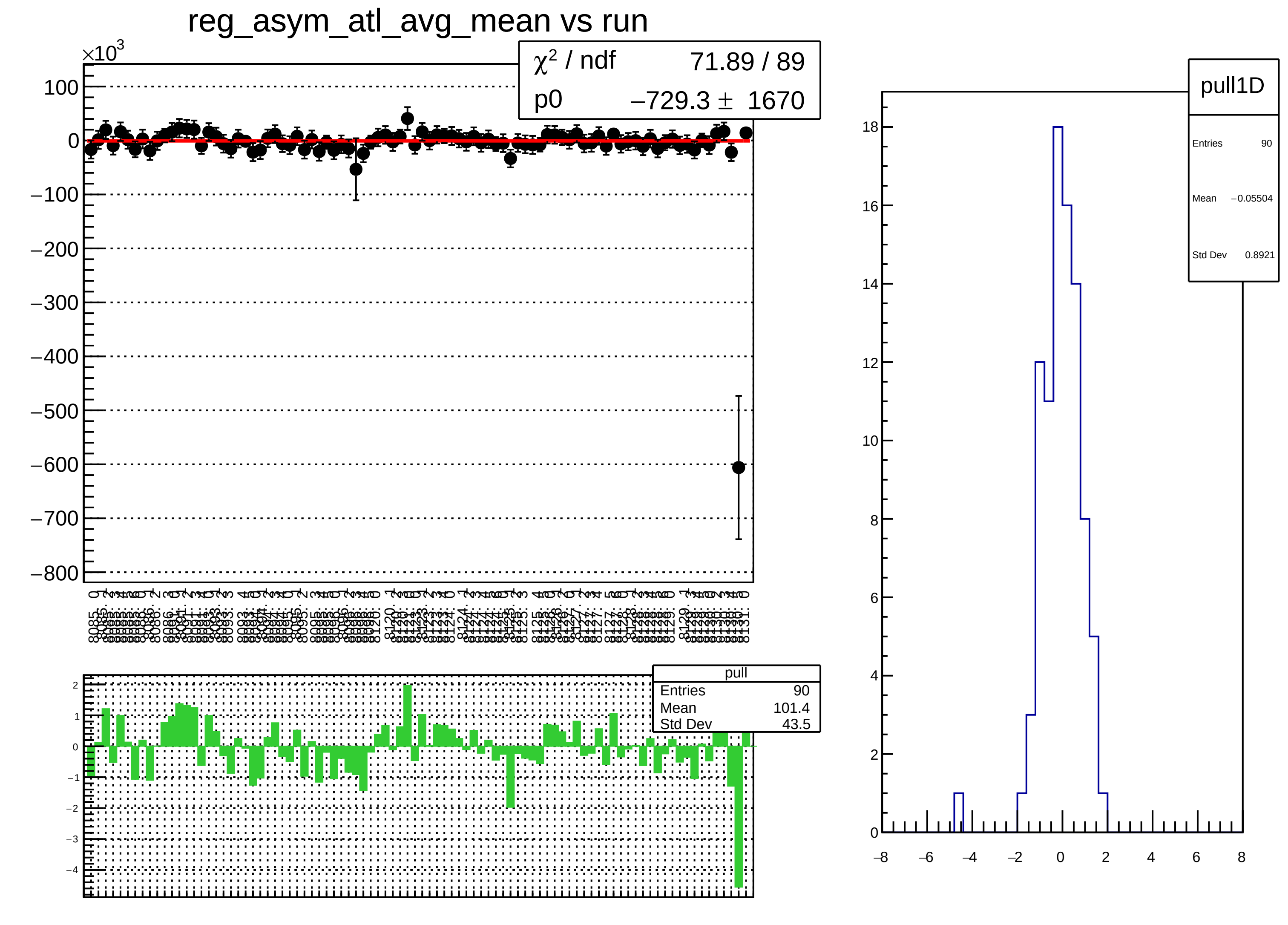

asym_atr2_correction_mean vs run
χ^2 / ndf 58.32 / 91
p0 1.975e+04 ± 1.251e+04
pull
Entries 92
Mean 3830
Std Dev 3774
pull1D
Entries 92
Mean −0.0006141
Std Dev 0.7962



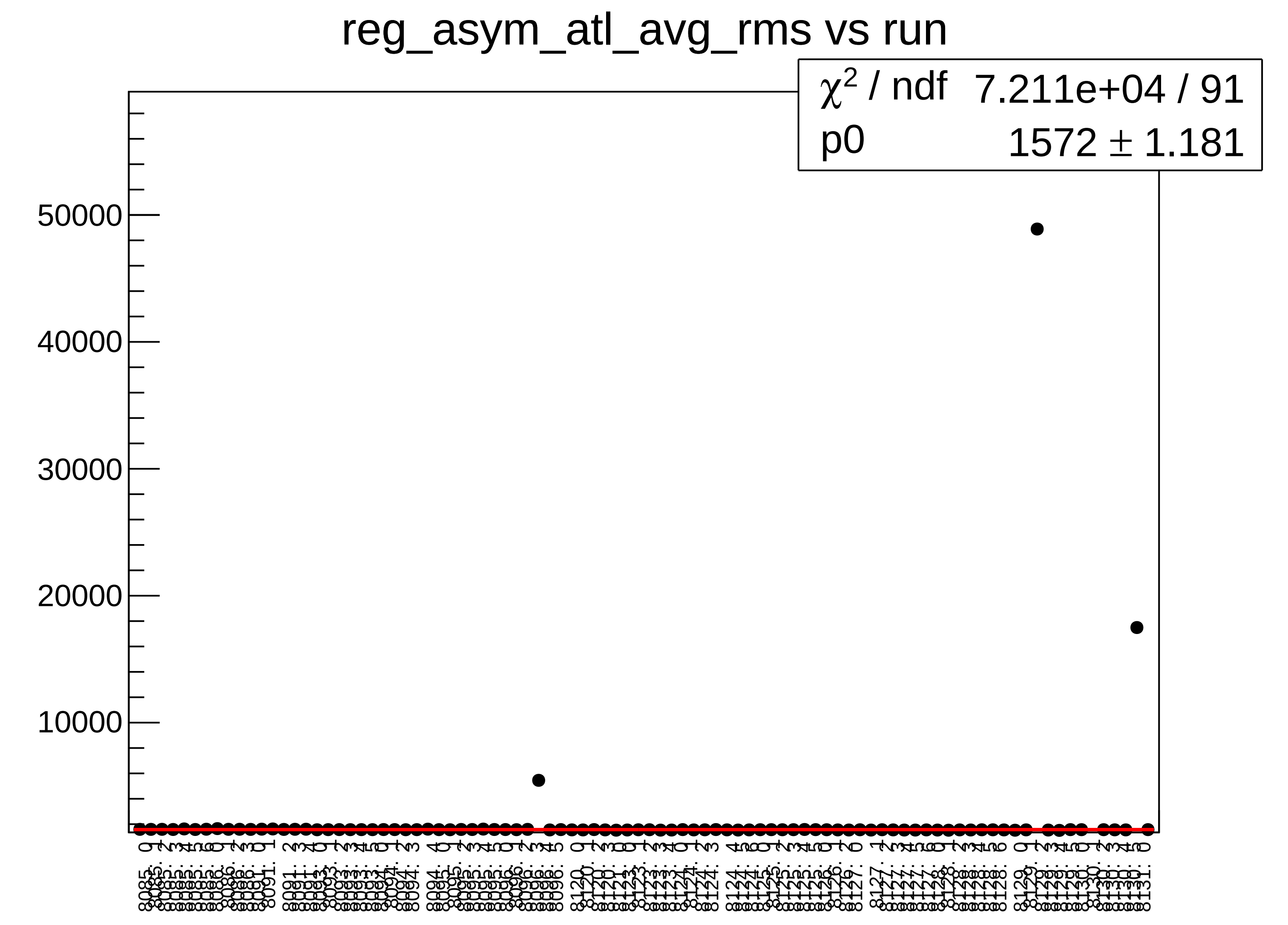
asym_atr2_correction_rms vs run
χ^2 / ndf 1.709e+04 / 91
p0 1.195e+04 ± 8.846
17000
16000
15000
14000
13000
12000
11000
10000

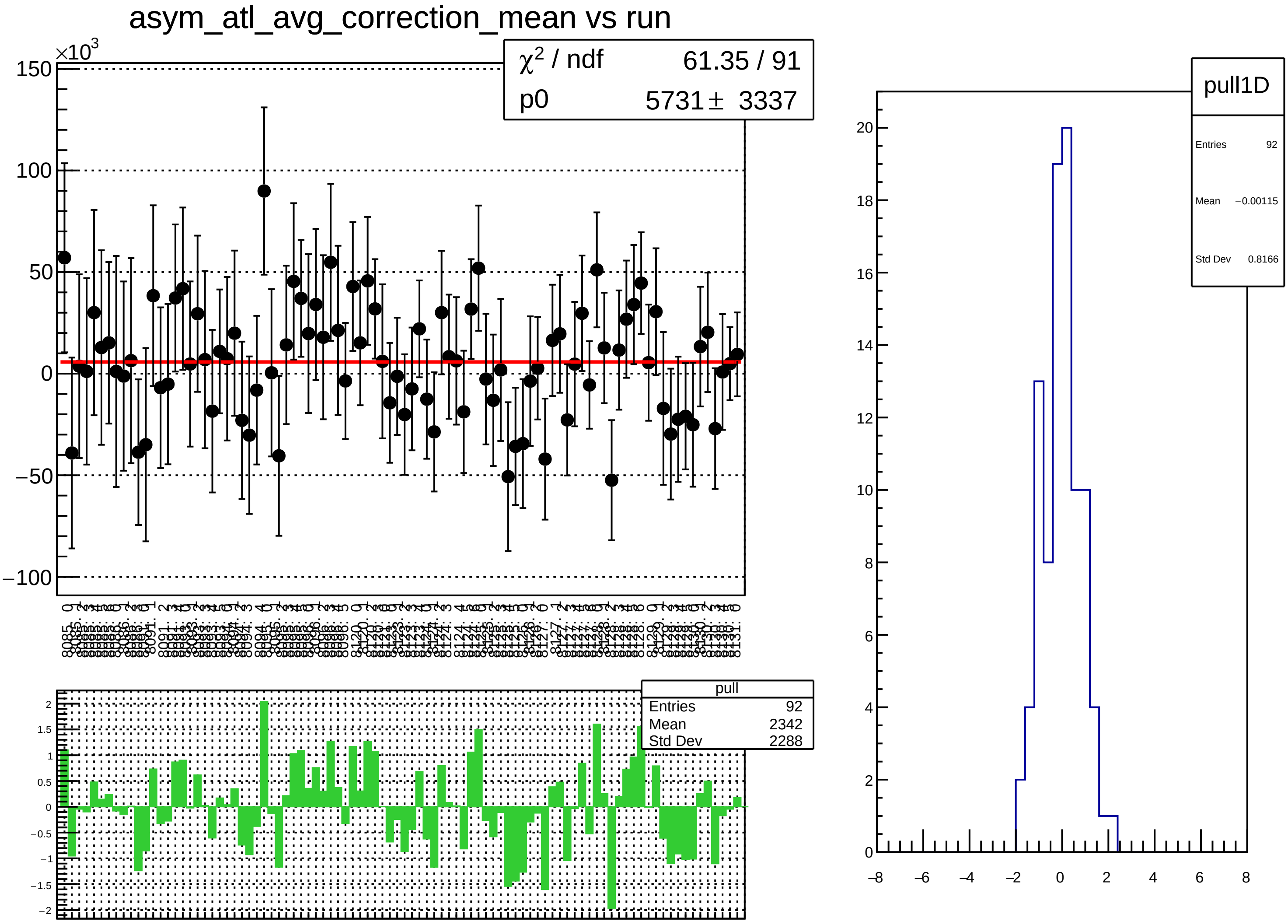

asym_atr2_mean vs run
×10^3
χ2 / ndf 59.08 / 91
p0 −2.312e+04 ± 1.276e+04
300
200
100
0
−100
−200
−300
−400
−500
pull
Entries 92
Mean 260.1
Std Dev 190.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.007044
Std Dev 0.8013
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atr2_rms vs run
χ^2 / ndf 1.628e+04 / 91
p0 1.219e+04 ± 9.02
18000
17000
16000
15000
14000
13000
12000
11000
10000

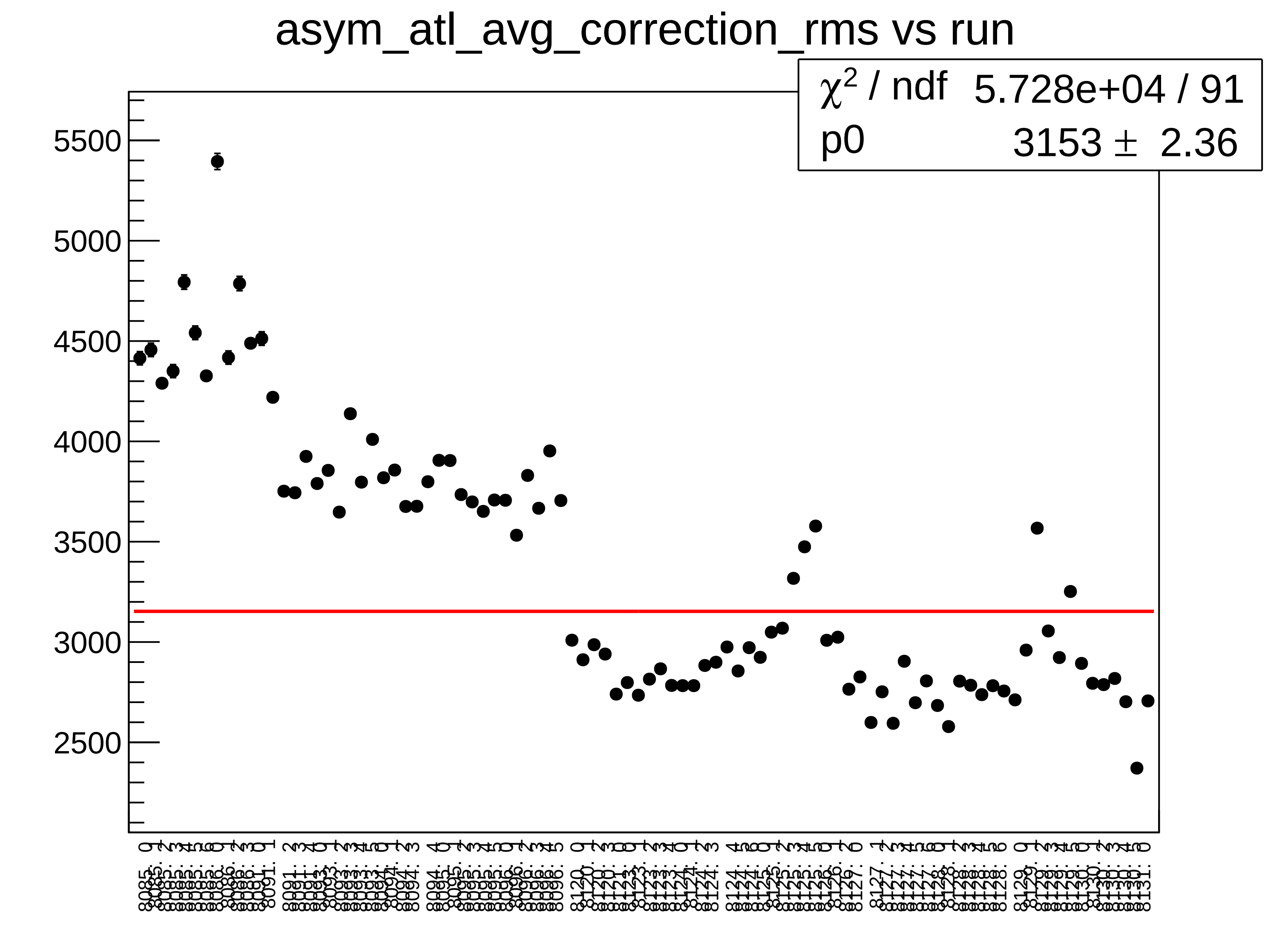


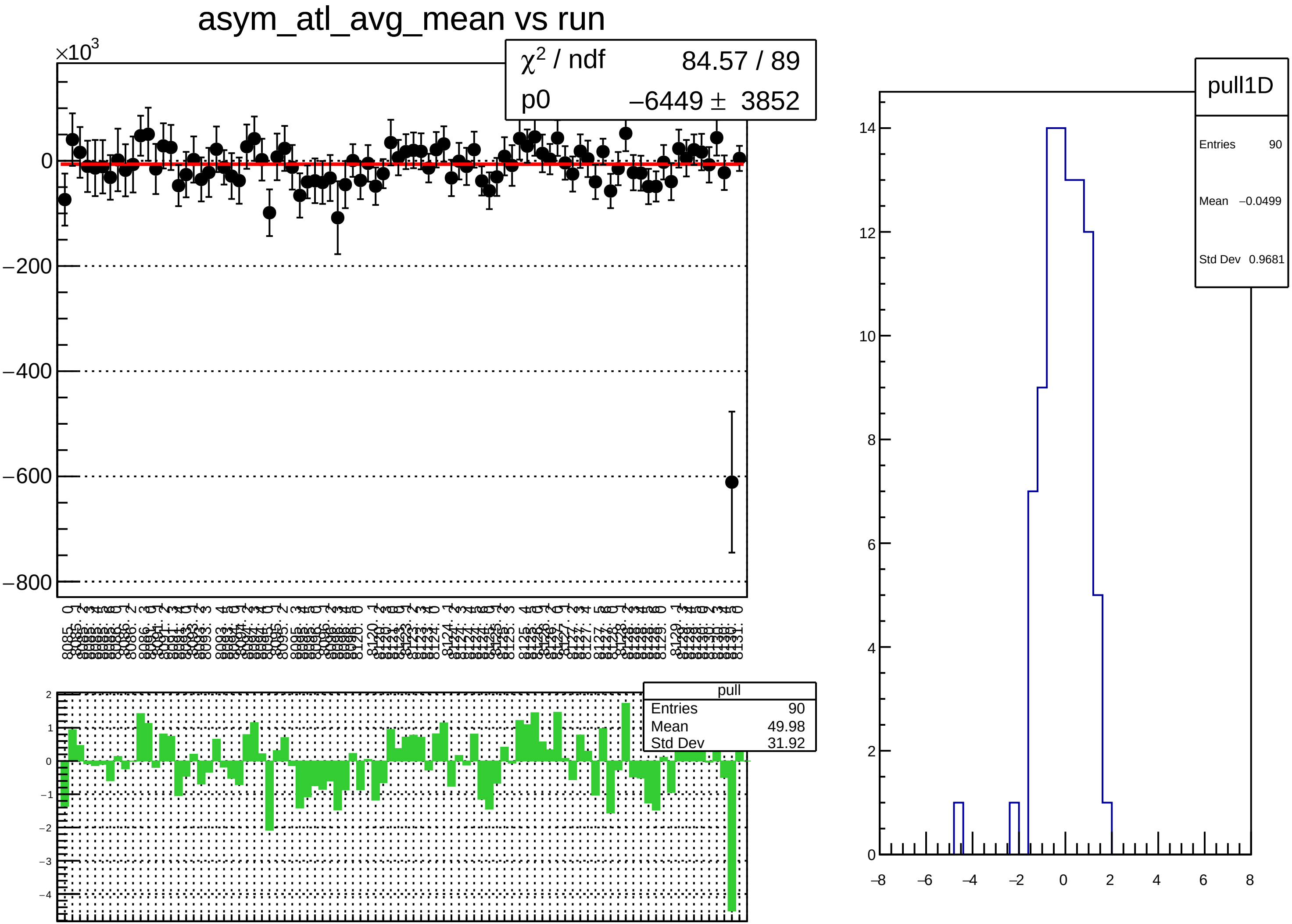
reg_asym_atl_avg_mean vs run
×10^3
χ^2 / ndf 71.89 / 89
p0 −729.3 ± 1670
pull
Entries 90
Mean 101.4
Std Dev 43.5
pull1D
Entries 90
Mean −0.05504
Std Dev 0.8921


reg_asym_atl_avg_rms vs run
χ^2 / ndf 7.211e+04 / 91
p0 1572 ± 1.181
50000
40000
30000
20000
10000

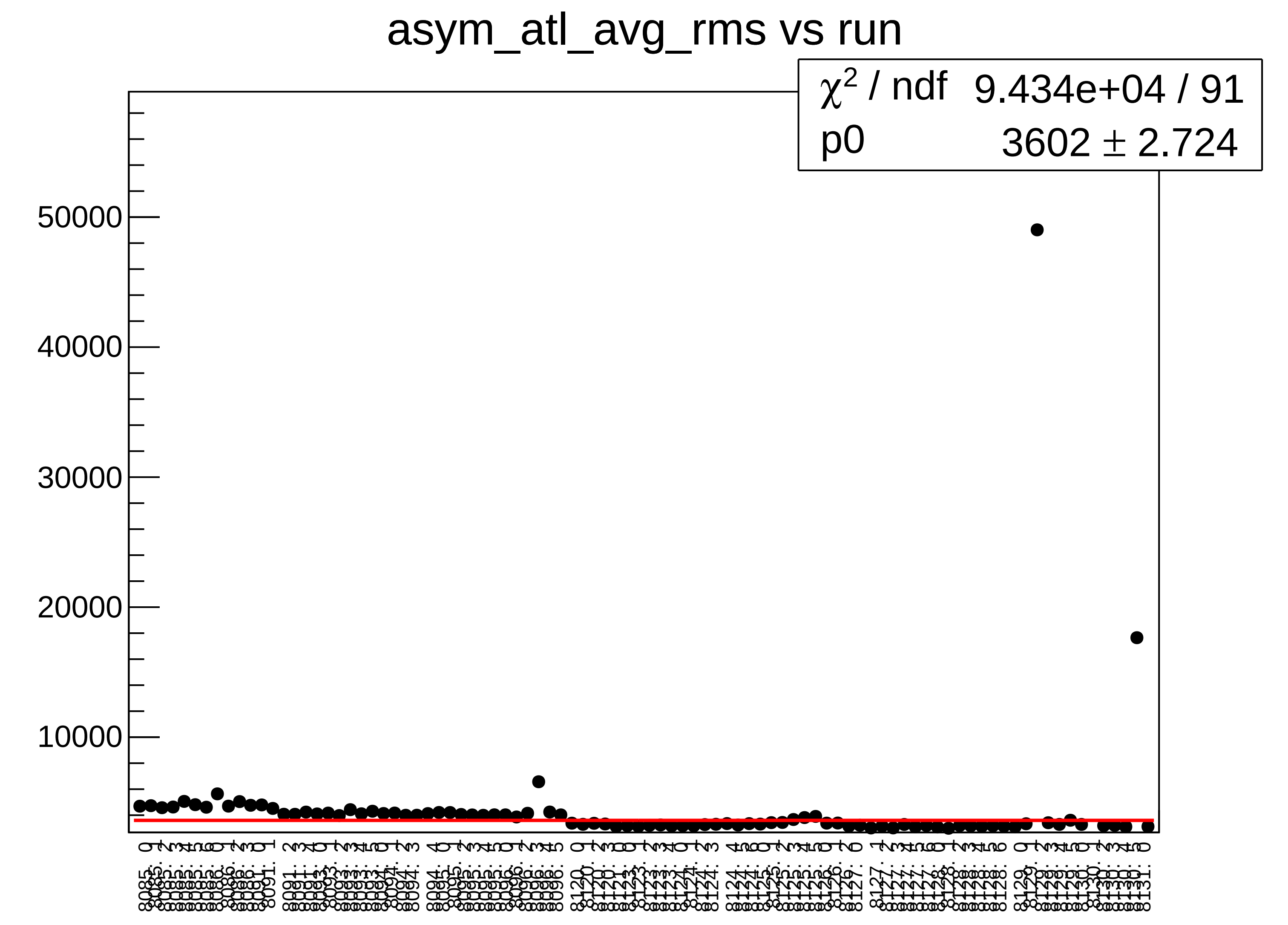


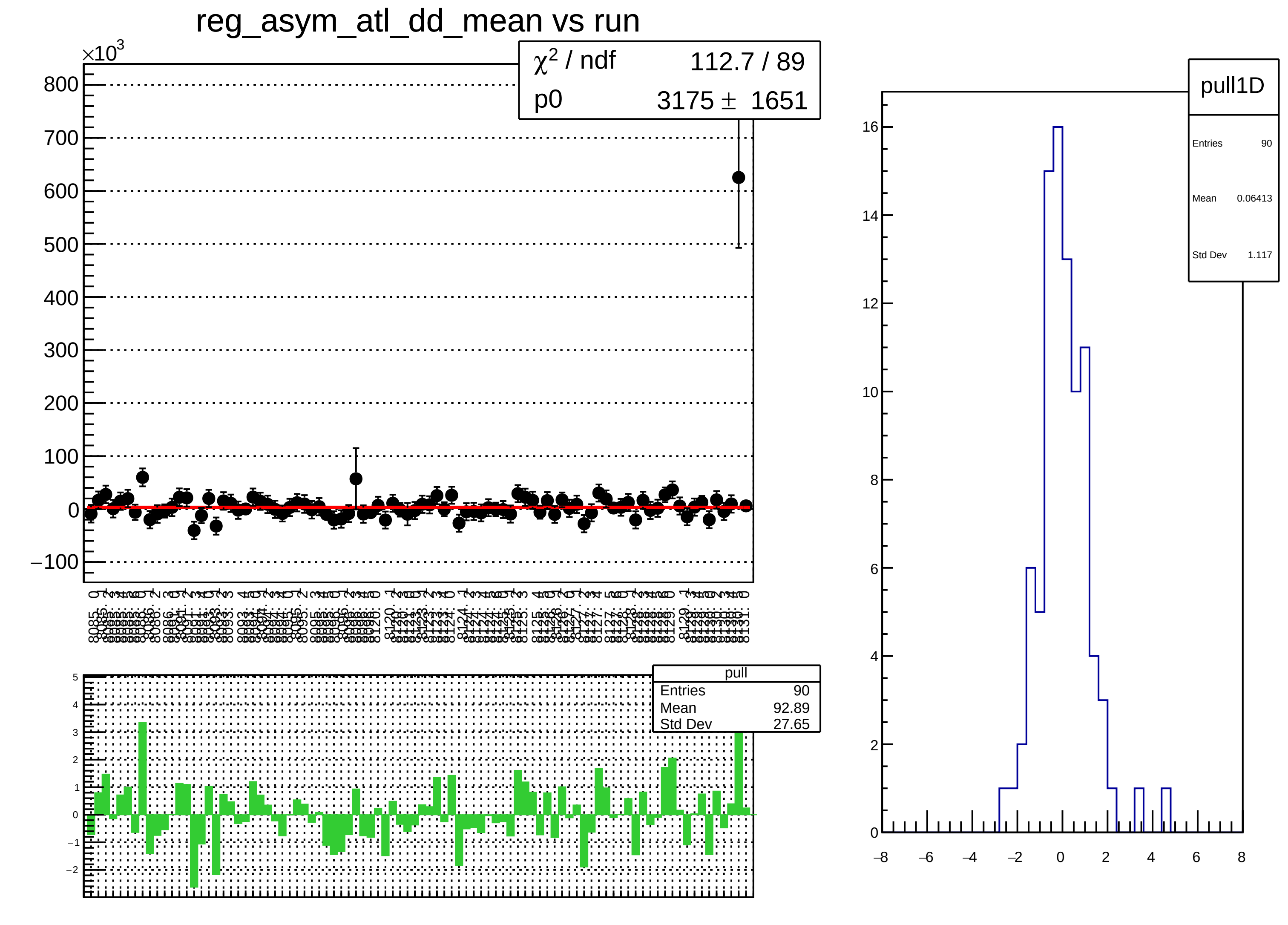
asym_atl_avg_correction_mean vs run
χ^2 / ndf 61.35 / 91
p0 5731 ± 3337
×10^3
pull
Entries 92
Mean 2342
Std Dev 2288
pull1D
Entries 92
Mean −0.00115
Std Dev 0.8166


asym_atl_avg_correction_rms vs run
χ^2 / ndf 5.728e+04 / 91
p0 3153 ± 2.36
5500
5000
4500
4000
3500
3000
2500

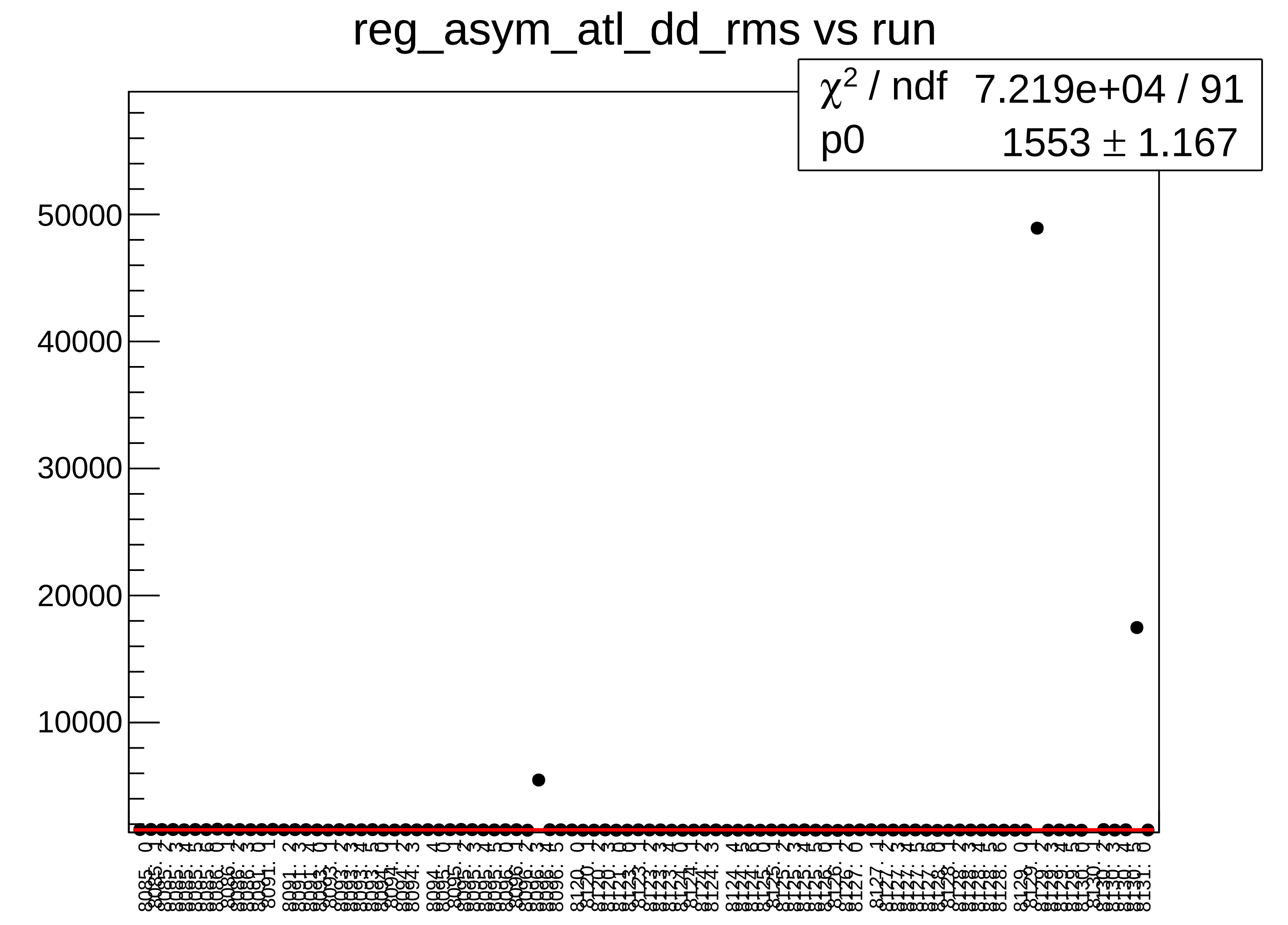


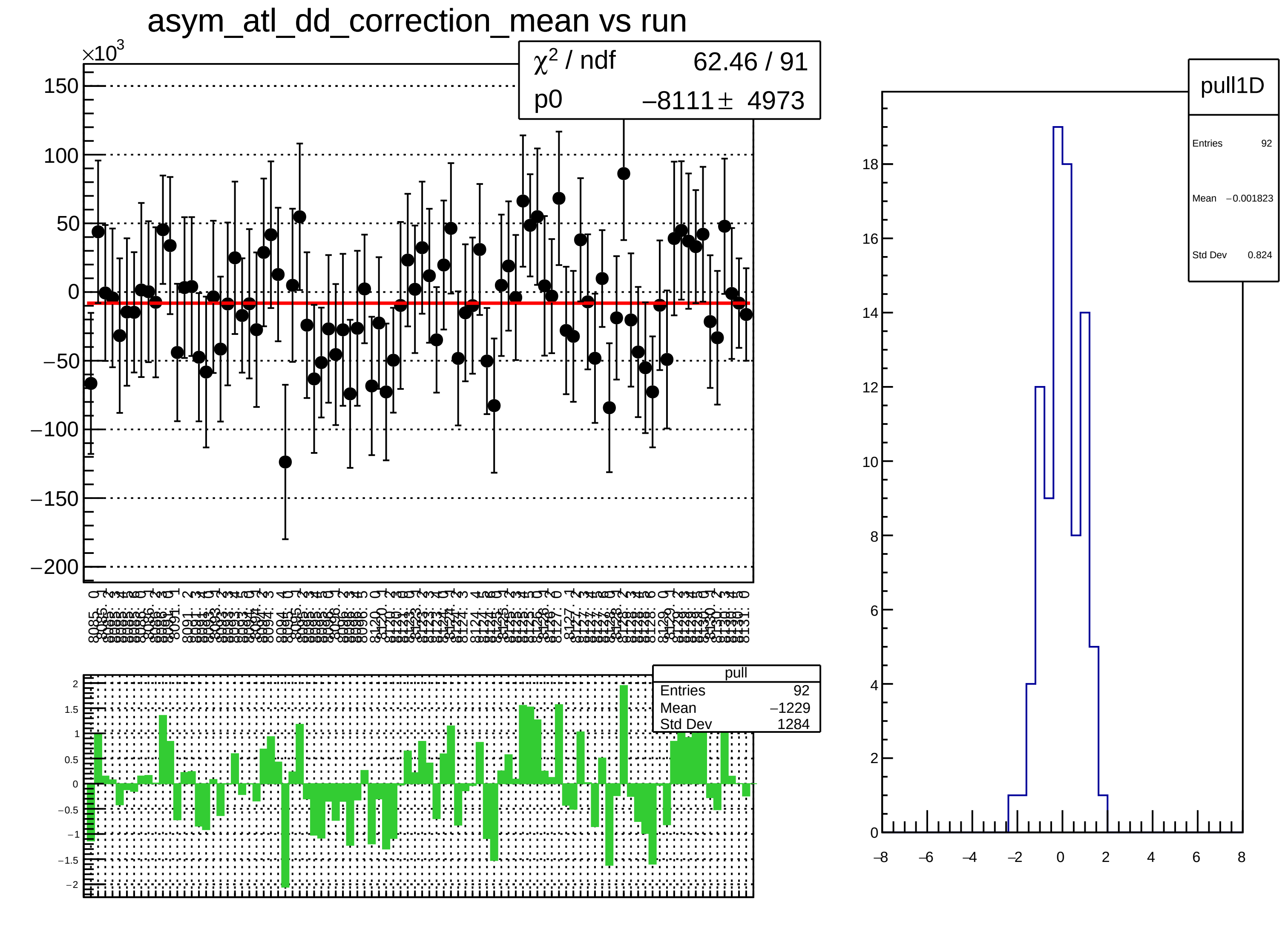
asym_atl_avg_mean vs run
$\times10^3$
χ^2 / ndf 84.57 / 89
p0 −6449 ± 3852
0
−200
−400
−600
−800
pull
Entries 90
Mean 49.98
Std Dev 31.92
2
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean −0.0499
Std Dev 0.9681
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_avg_rms vs run
χ^2 / ndf 9.434e+04 / 91
p0 3602 ± 2.724
50000
40000
30000
20000
10000

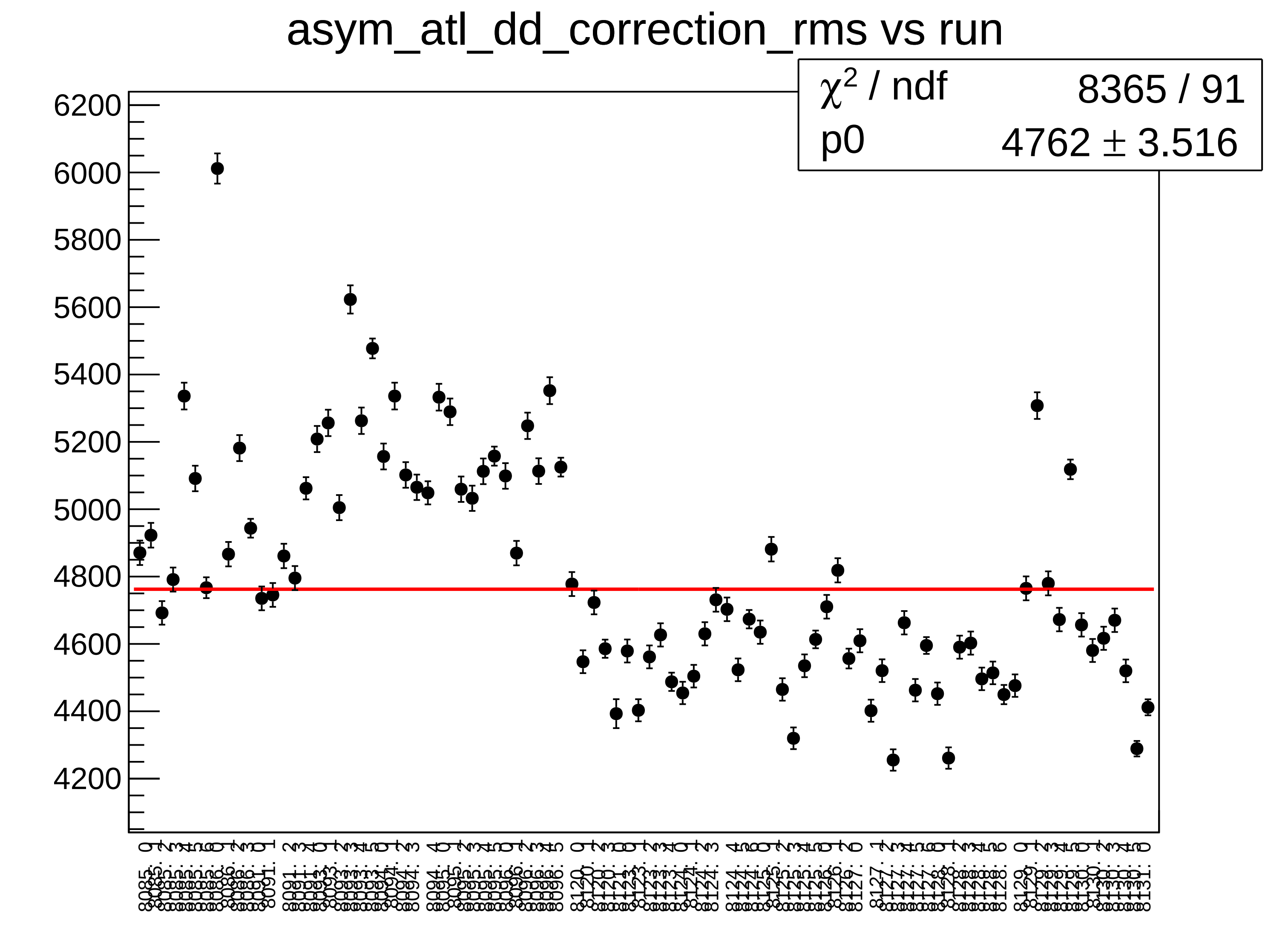


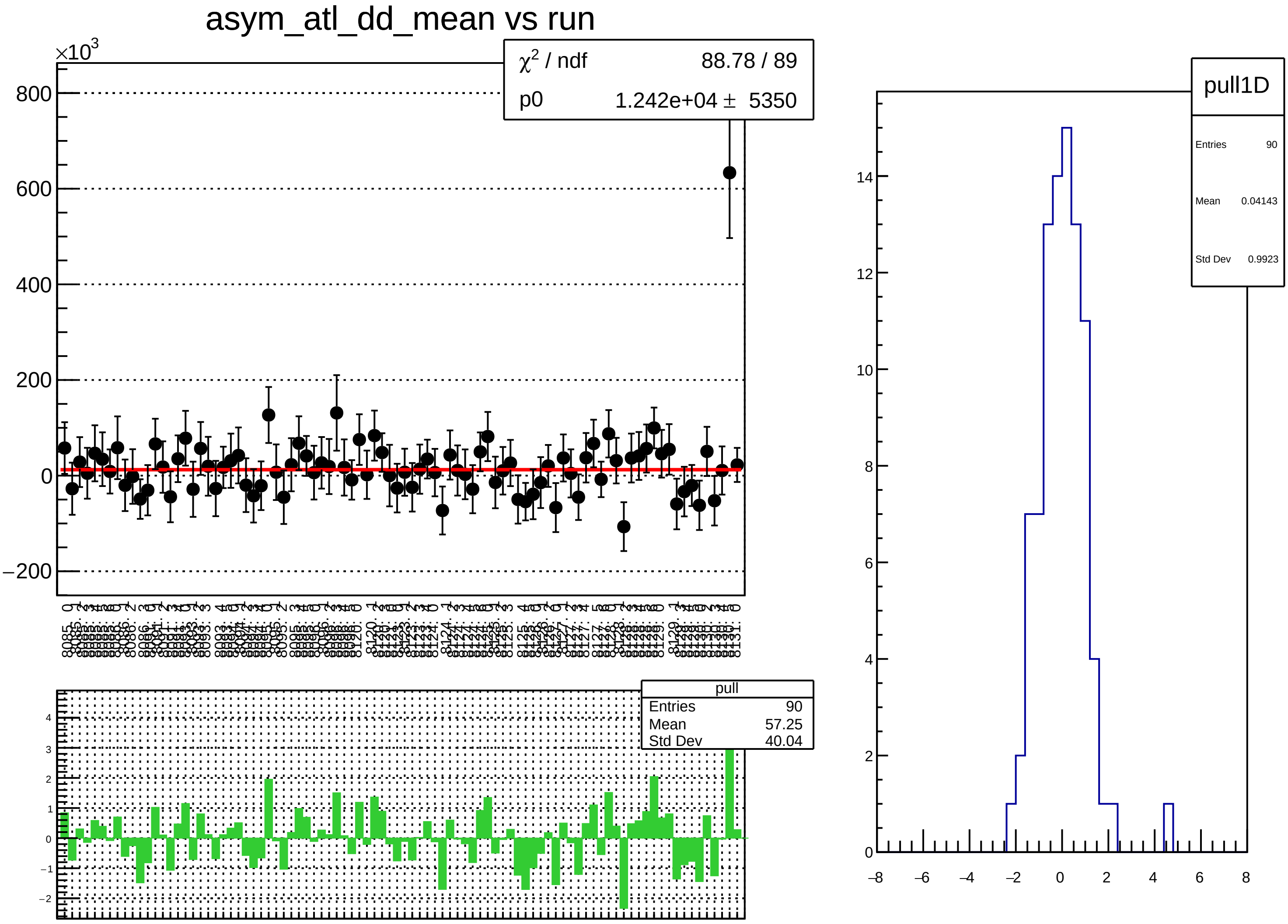
reg_asym_atl_dd_mean vs run
$\times10^3$
χ^2 / ndf 112.7 / 89
p0 3175 ± 1651
800
700
600
500
400
300
200
100
0
−100
pull
Entries 90
Mean 92.89
Std Dev 27.65
pull1D
Entries 90
Mean 0.06413
Std Dev 1.117
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_atl_dd_rms vs run
χ2 / ndf 7.219e+04 / 91
p0 1553 ± 1.167
50000
40000
30000
20000
10000

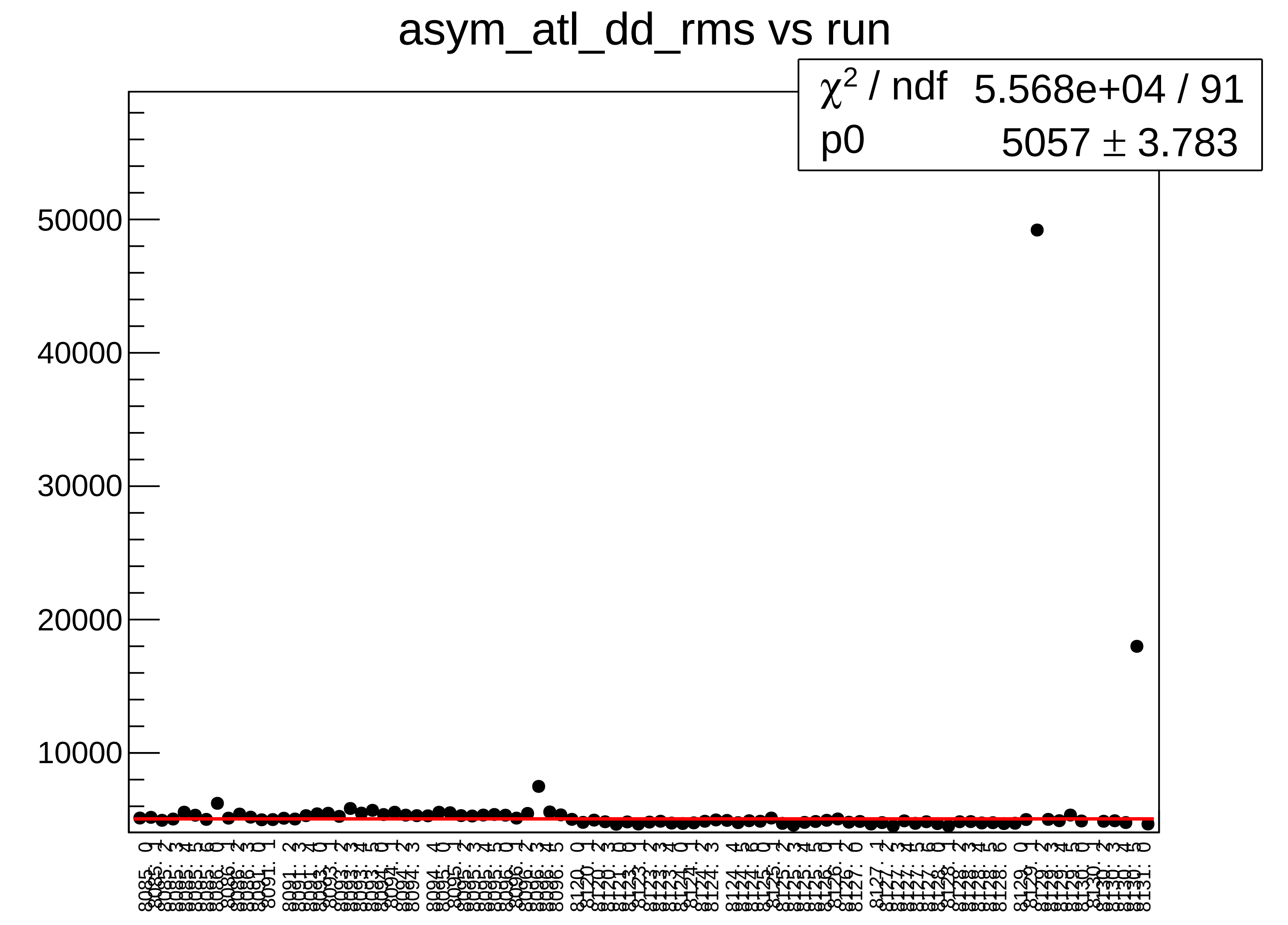


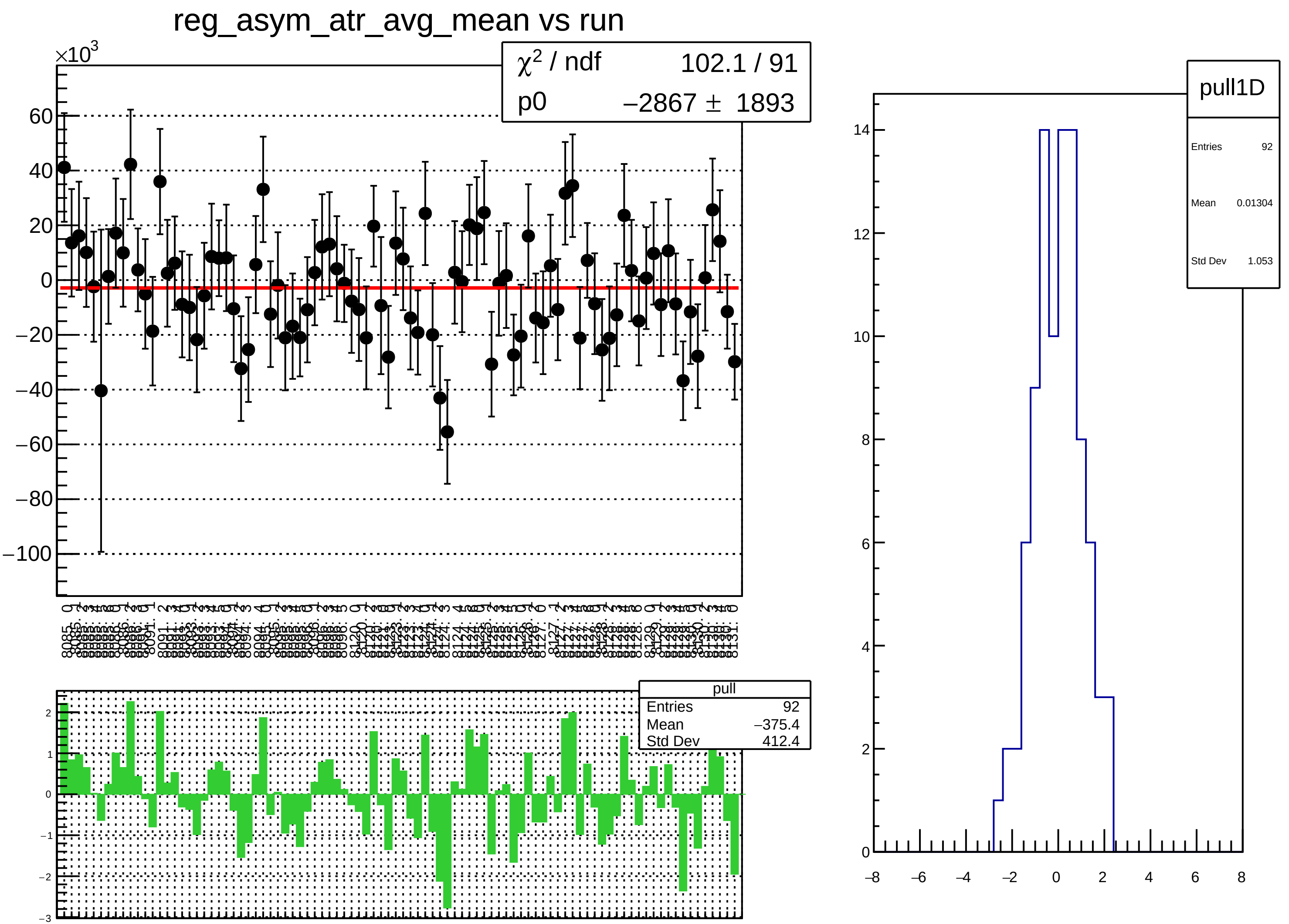
asym_atl_dd_correction_mean vs run
χ2 / ndf 62.46 / 91
p0 −8111 ± 4973
×10^3
pull
Entries 92
Mean −1229
Std Dev 1284
pull1D
Entries 92
Mean −0.001823
Std Dev 0.824


asym_atl_dd_correction_rms vs run
χ2 / ndf 8365 / 91
p0 4762 ± 3.516
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

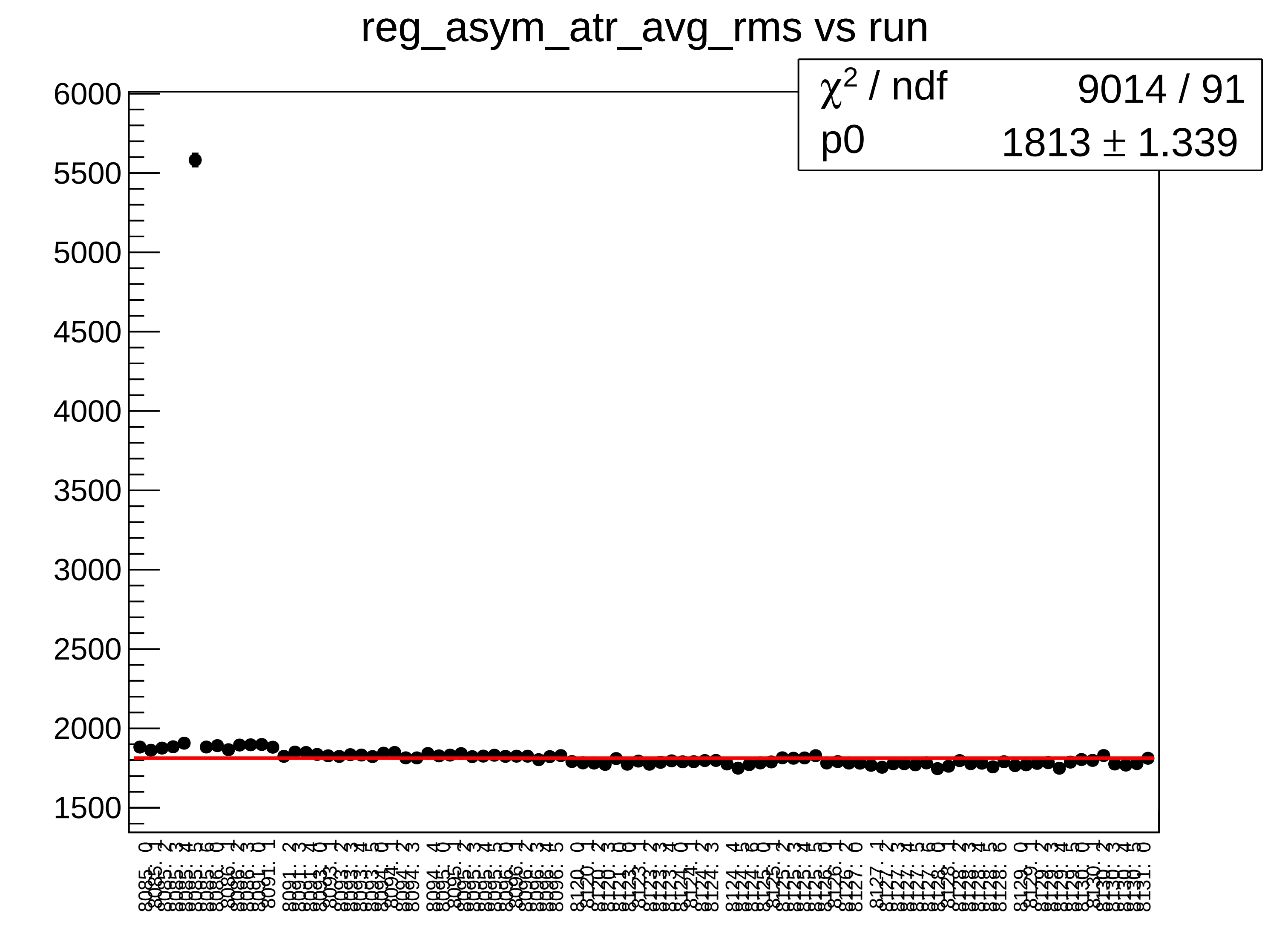


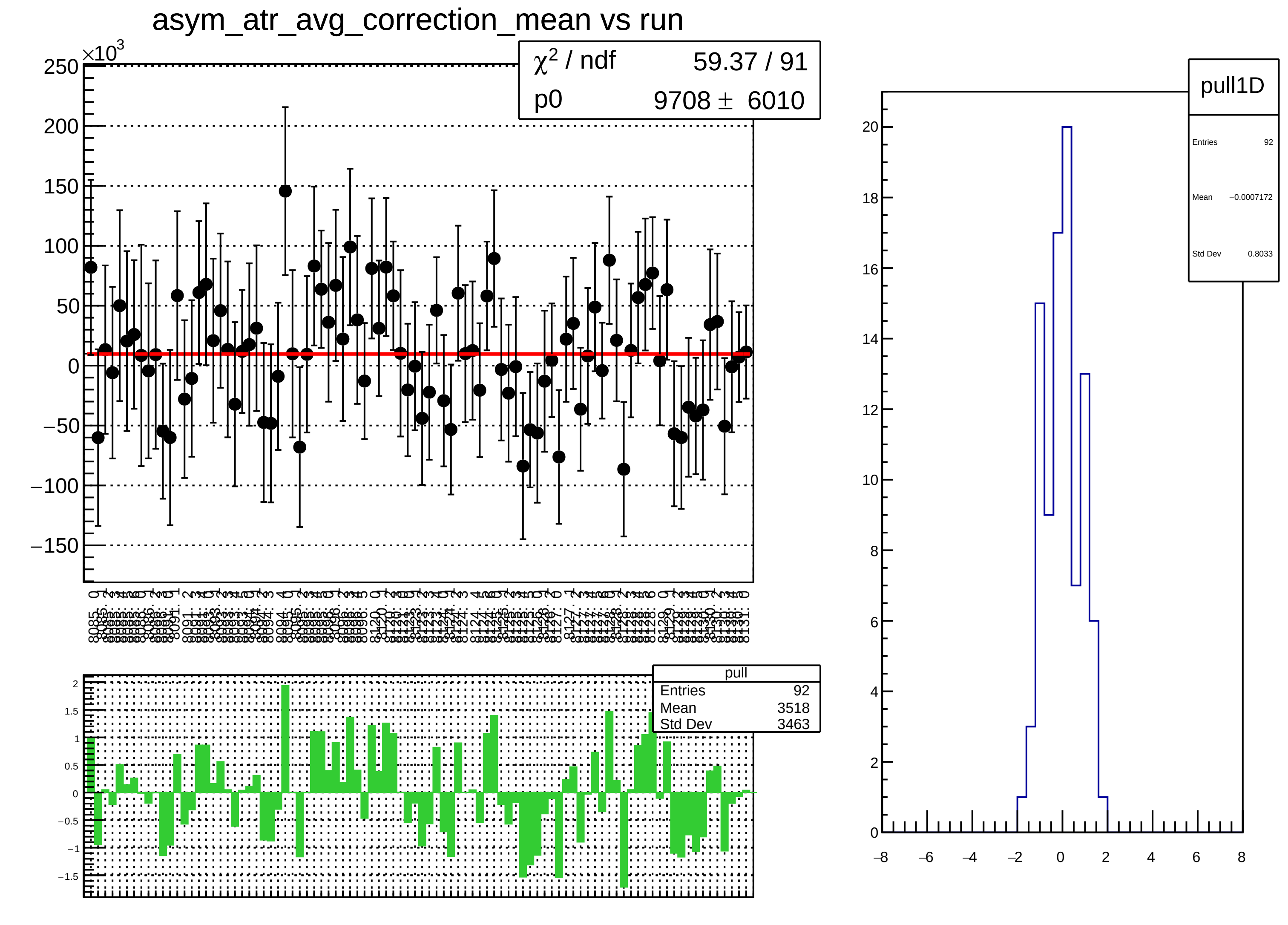
asym_atl_dd_mean vs run
×10^3
χ2 / ndf 88.78 / 89
p0 1.242e+04 ± 5350
800
600
400
200
0
−200
pull
Entries 90
Mean 57.25
Std Dev 40.04
pull1D
Entries 90
Mean 0.04143
Std Dev 0.9923


asym_atl_dd_rms vs run
χ2 / ndf 5.568e+04 / 91
p0 5057 ± 3.783
50000
40000
30000
20000
10000

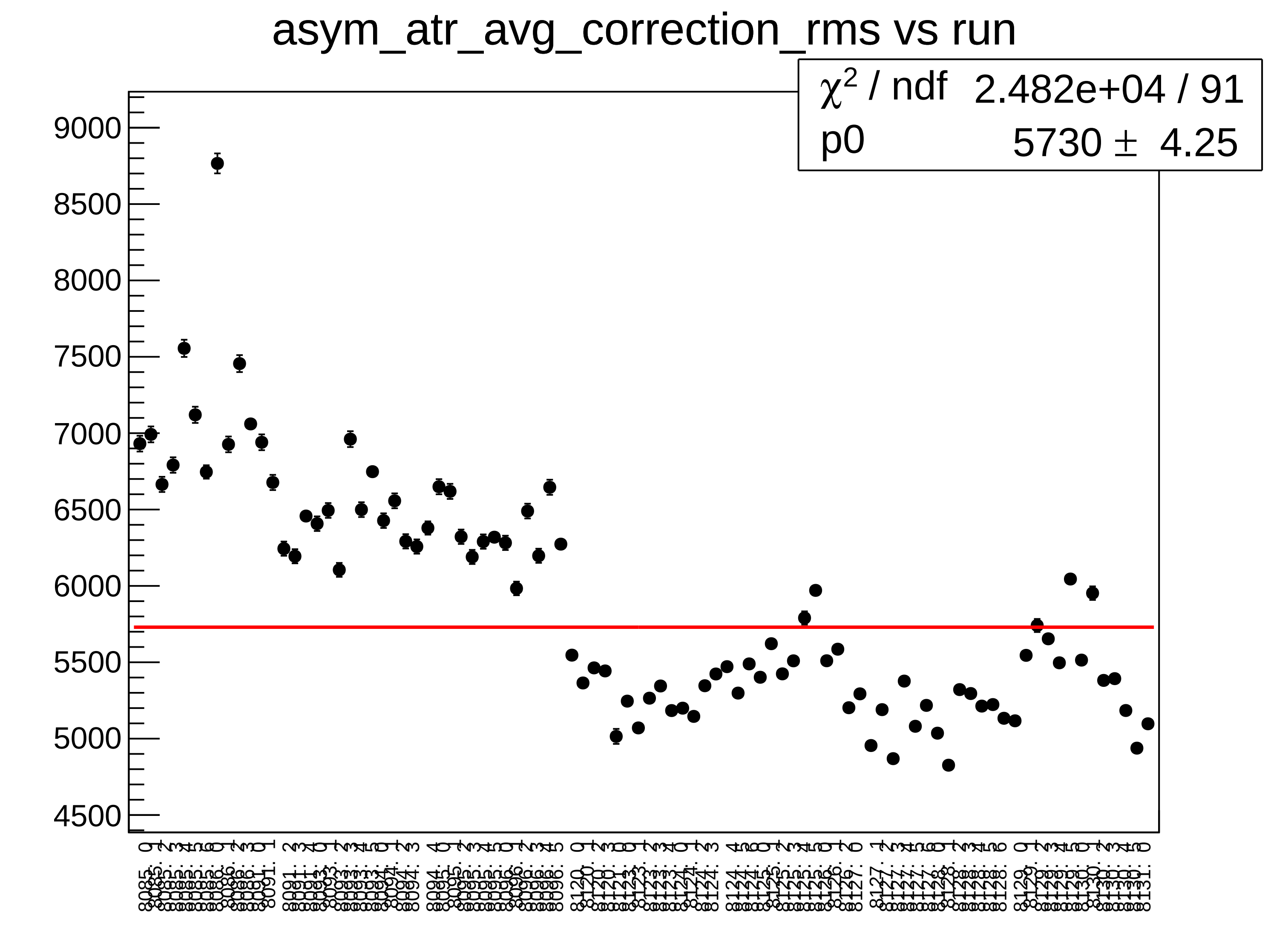


reg_asym_atr_avg_mean vs run
$\times 10^3$
χ^2 / ndf 102.1 / 91
p0 −2867 ± 1893
pull
Entries 92
Mean −375.4
Std Dev 412.4
pull1D
Entries 92
Mean 0.01304
Std Dev 1.053

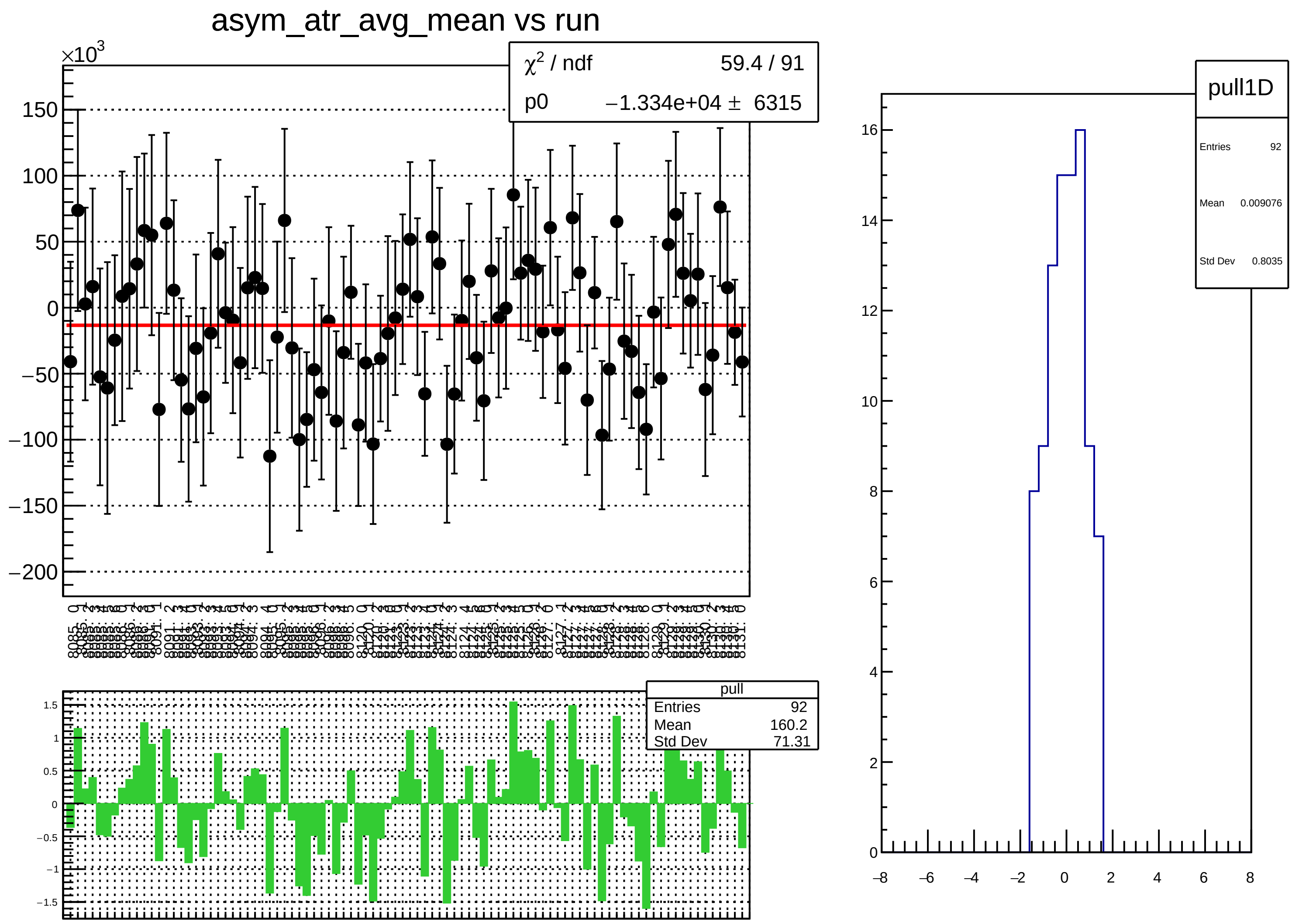

reg_asym_atr_avg_rms vs run
χ^2 / ndf 9014 / 91
p0 1813 ± 1.339
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

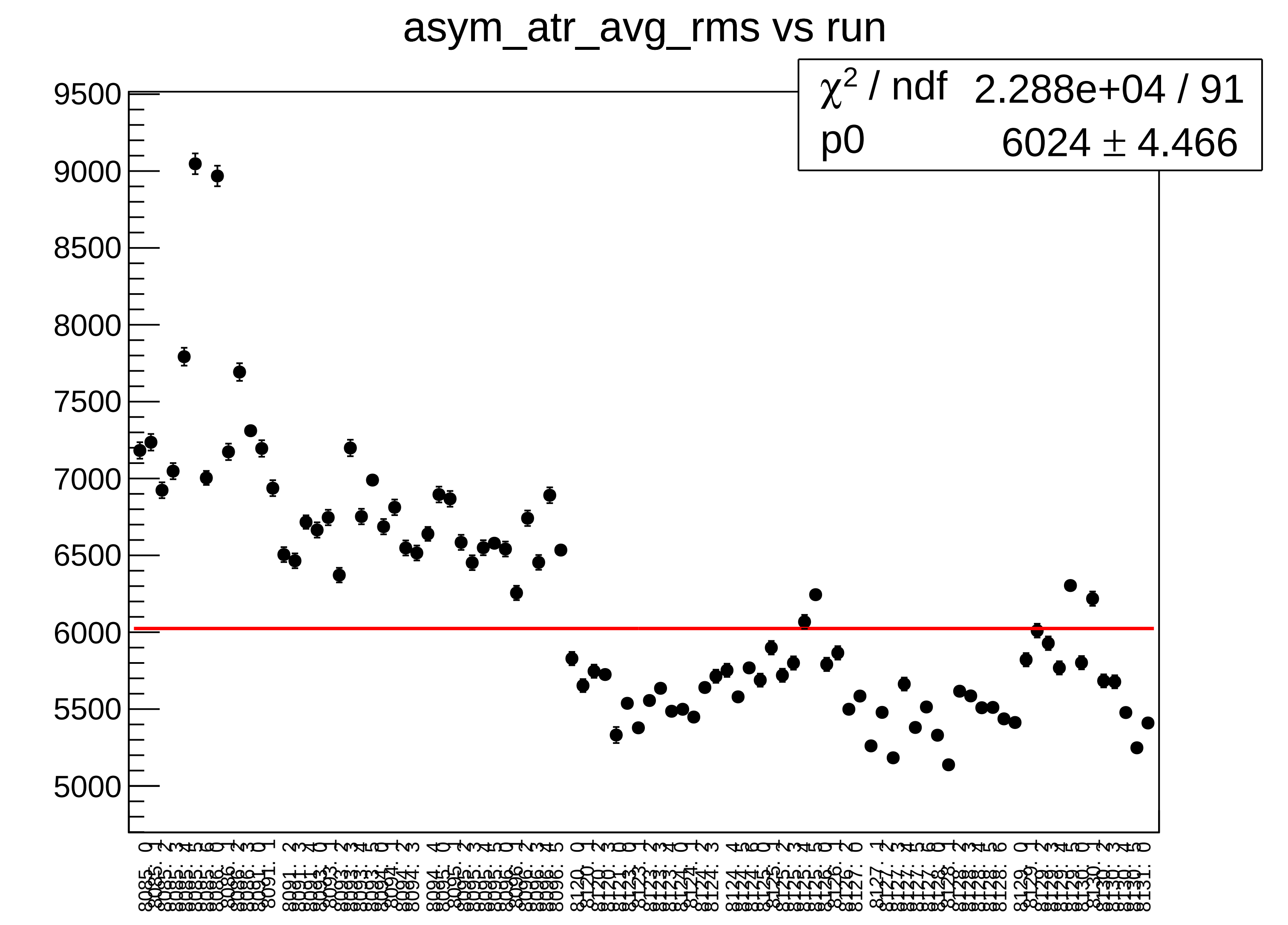


asym_atr_avg_correction_mean vs run
χ^2 / ndf 59.37 / 91
p0 9708 ± 6010
pull
Entries 92
Mean 3518
Std Dev 3463
pull1D
Entries 92
Mean −0.0007172
Std Dev 0.8033

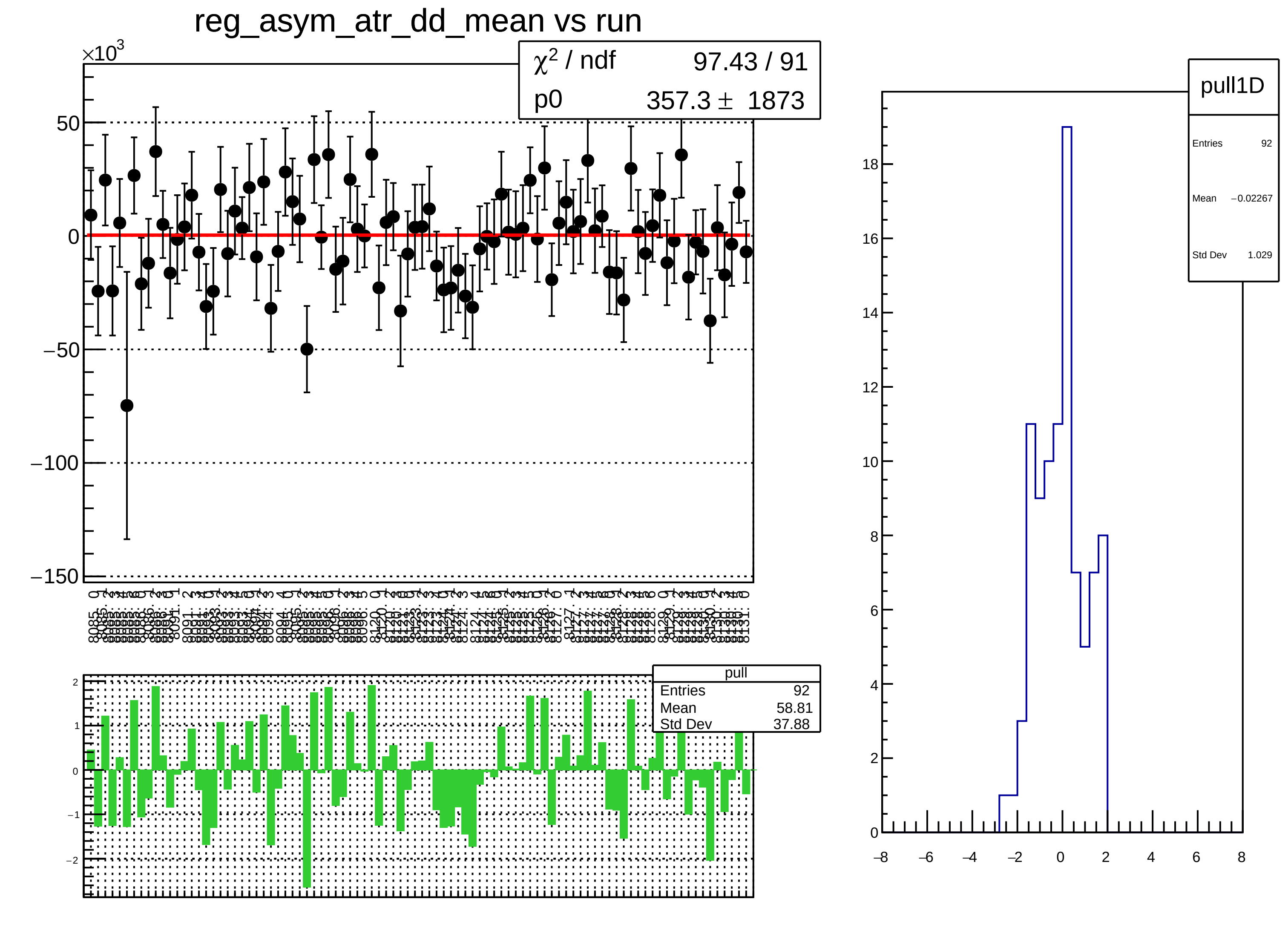


asym_atr_avg_correction_rms vs run
χ^2 / ndf 2.482e+04 / 91
p0 5730 ± 4.25
9000
8500
8000
7500
7000
6500
6000
5500
5000
4500

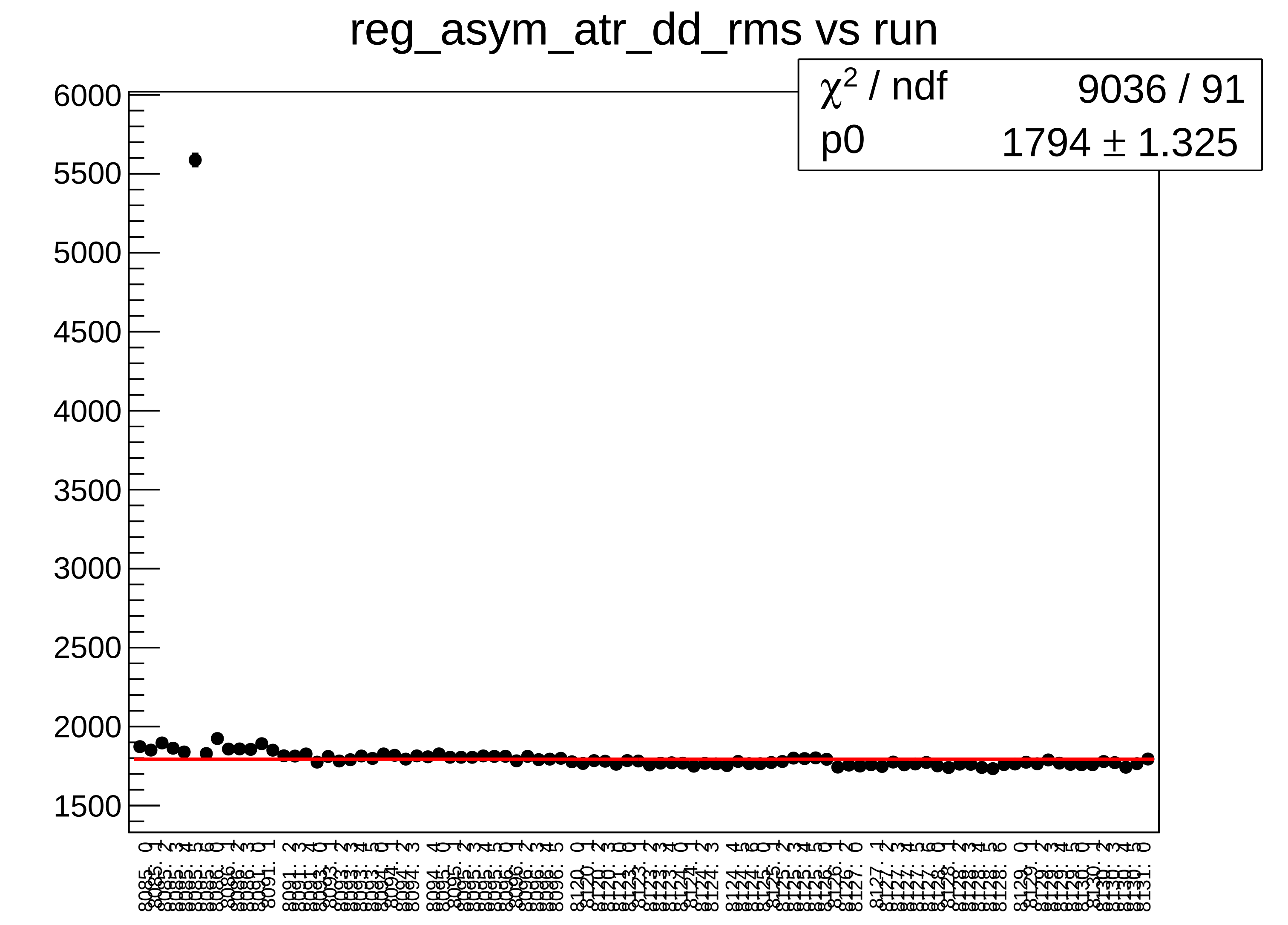

asym_atr_avg_mean vs run
$\times 10^3$
χ^2 / ndf 59.4 / 91
p0 −1.334e+04 ± 6315
pull
Entries 92
Mean 160.2
Std Dev 71.31
pull1D
Entries 92
Mean 0.009076
Std Dev 0.8035



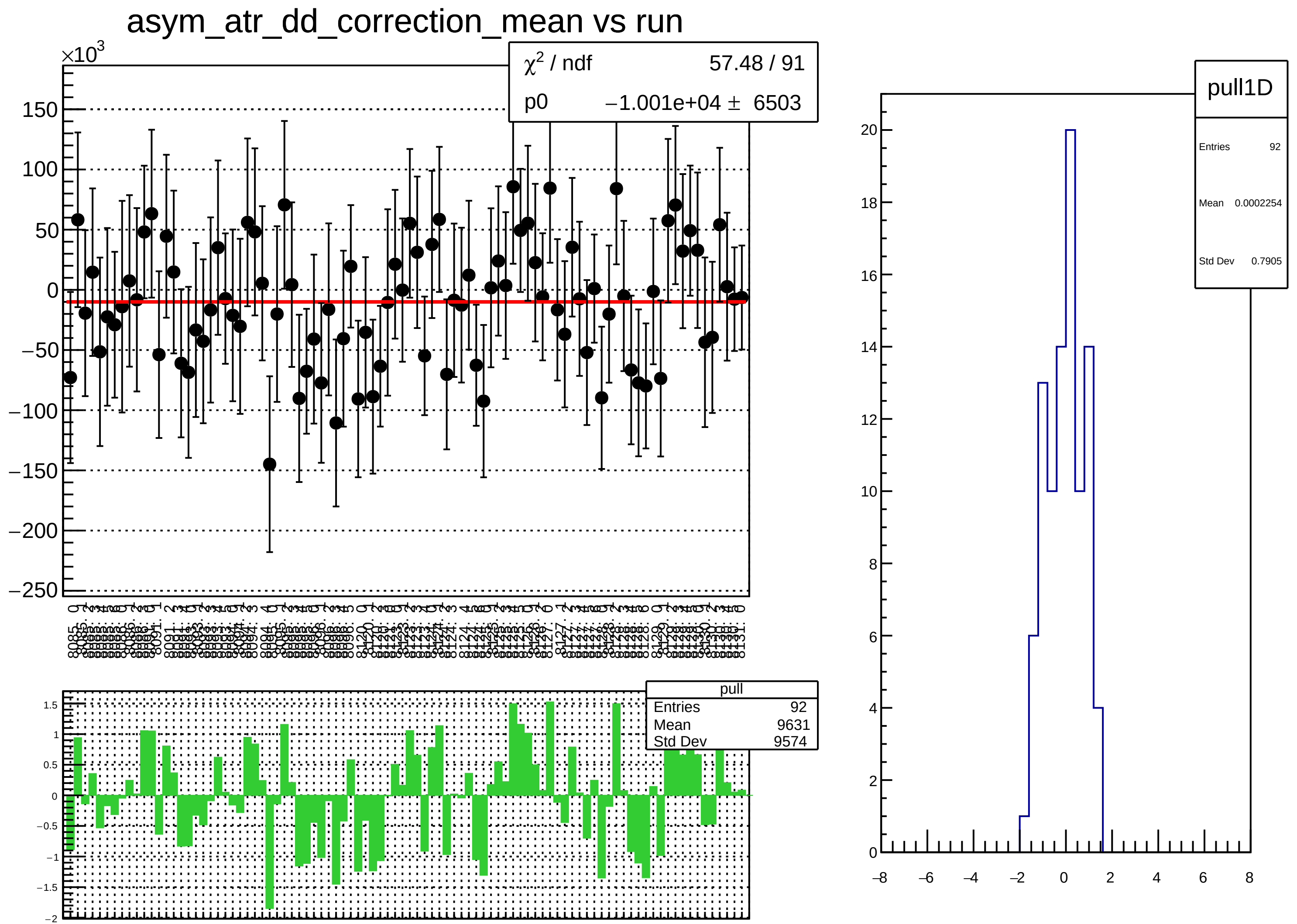
asym_atr_avg_rms vs run
χ^2 / ndf 2.288e+04 / 91
p0 6024 ± 4.466
9500
9000
8500
8000
7500
7000
6500
6000
5500
5000



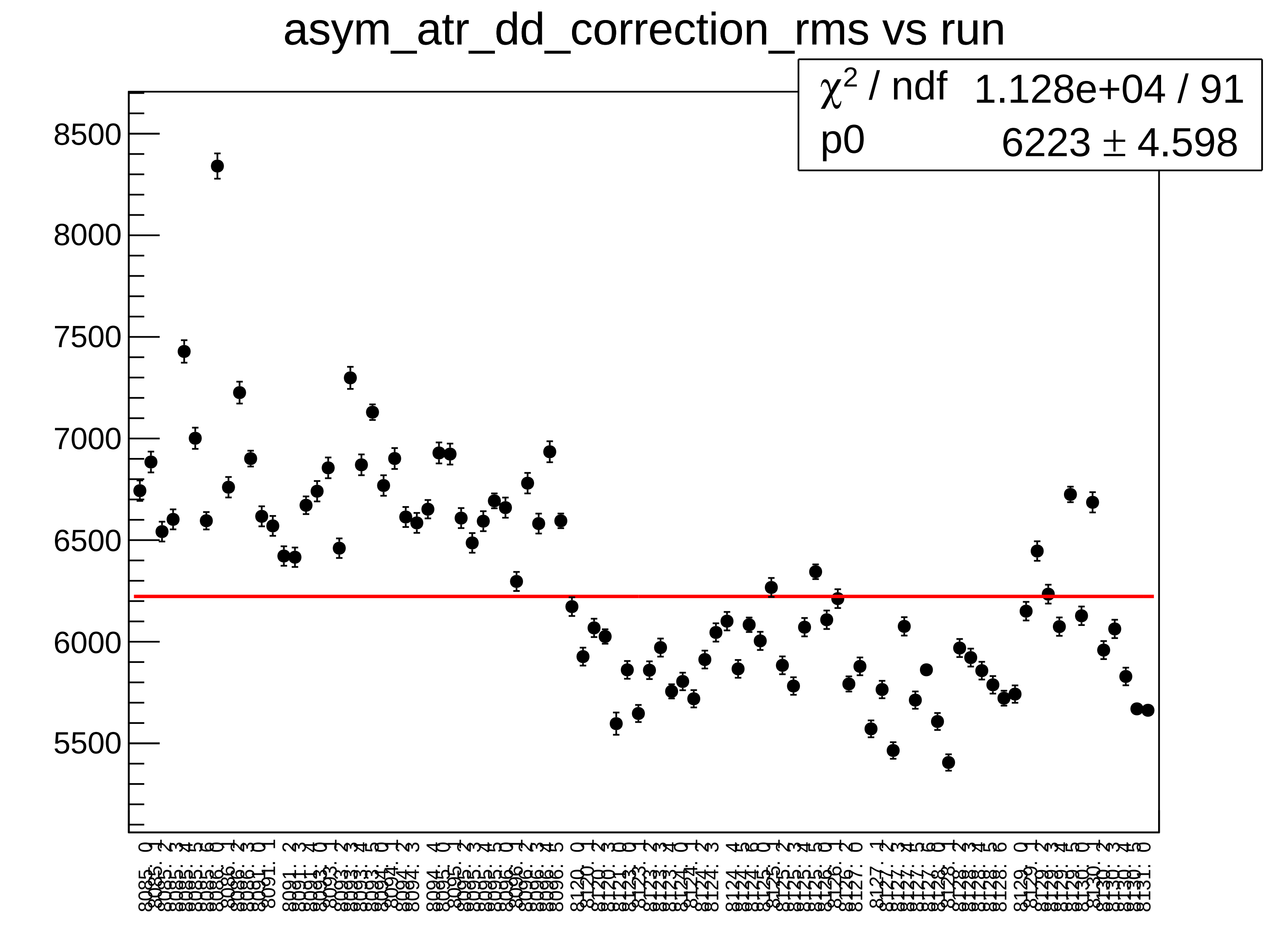
reg_asym_atr_dd_mean vs run
χ2 / ndf 97.43 / 91
p0 357.3 ± 1873
pull
Entries 92
Mean 58.81
Std Dev 37.88
pull1D
Entries 92
Mean −0.02267
Std Dev 1.029

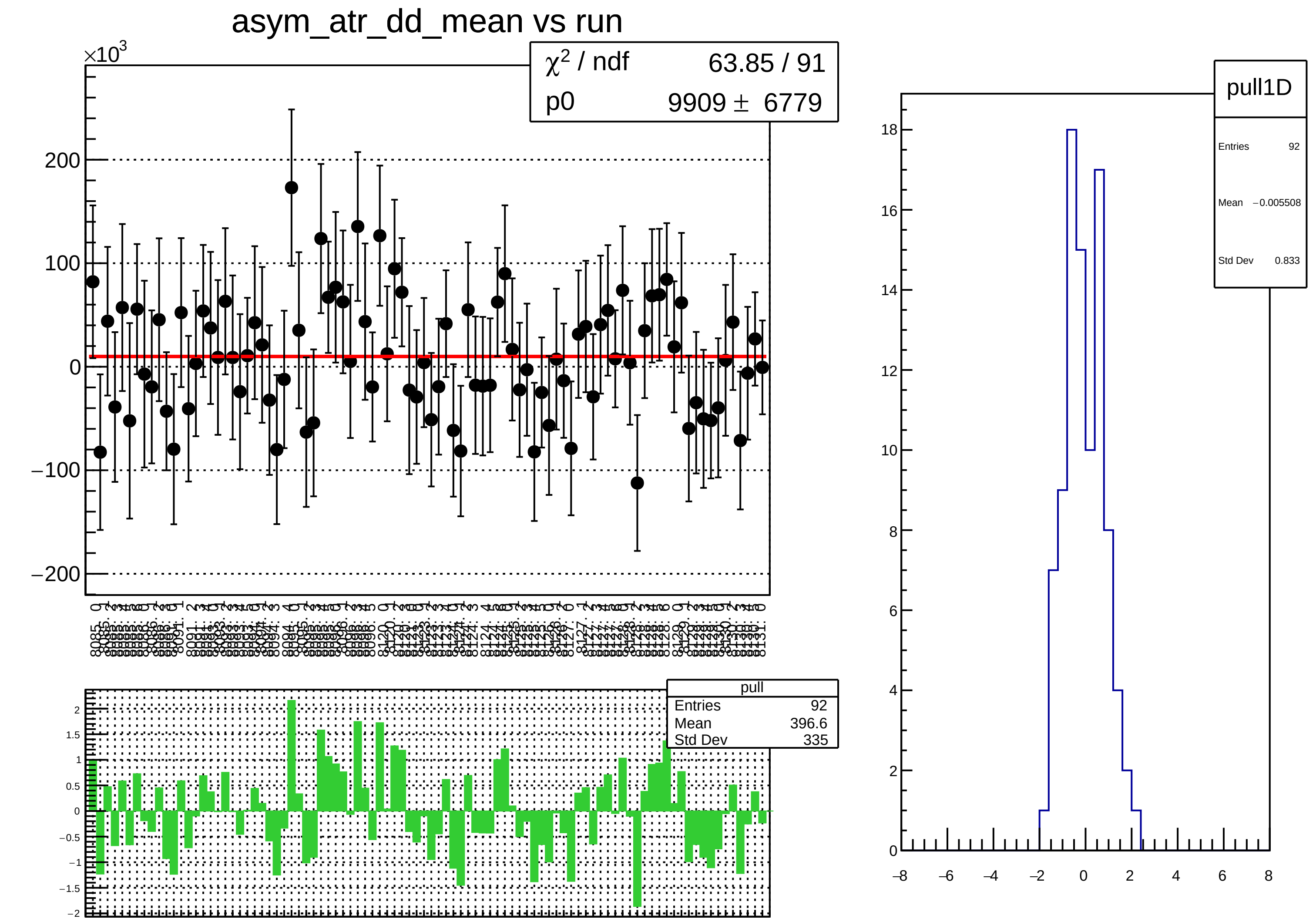


reg_asym_atr_dd_rms vs run
χ² / ndf 9036 / 91
p0 1794 ± 1.325
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

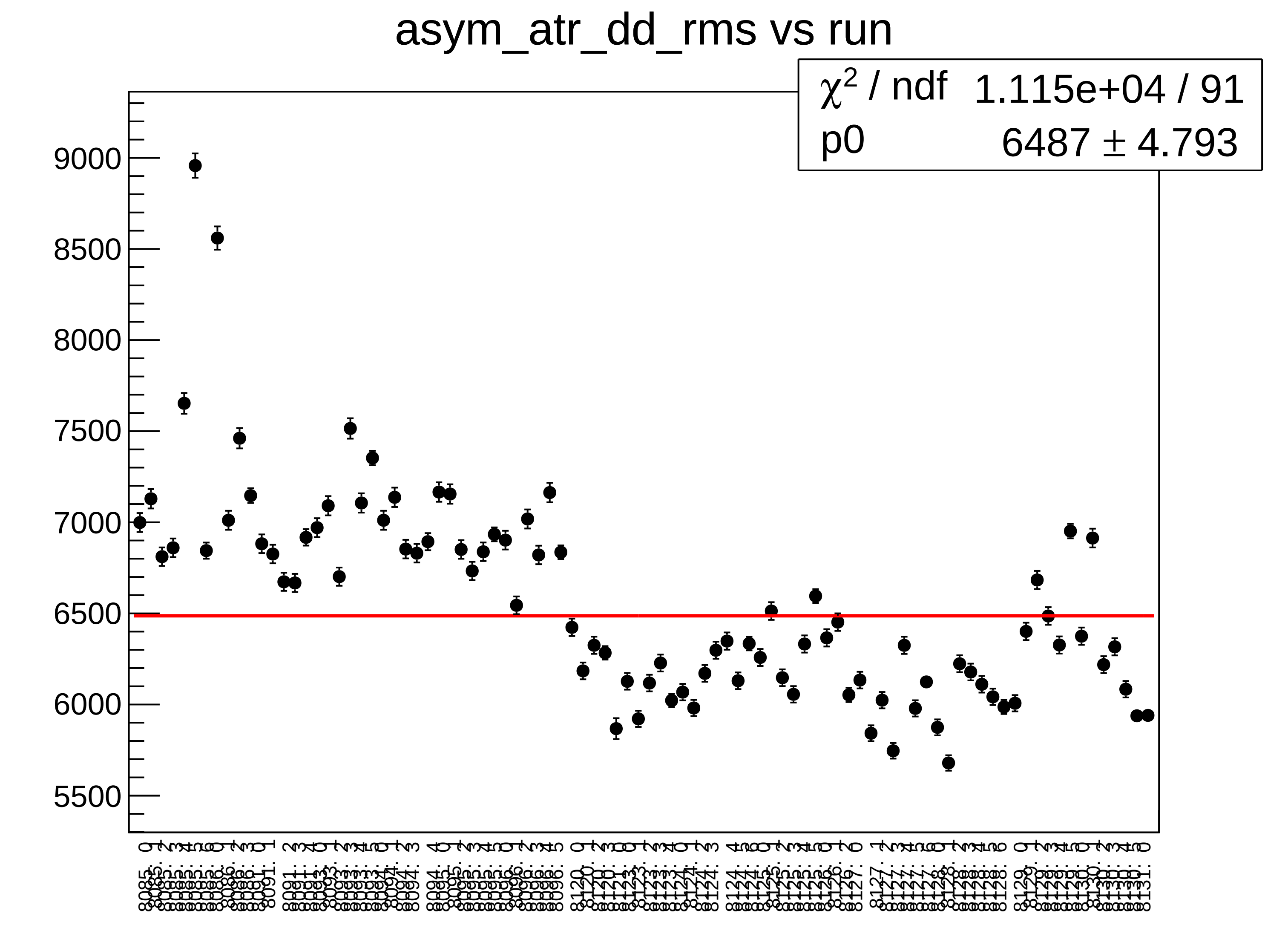


asym_atr_dd_correction_mean vs run
×10^3
χ2 / ndf 57.48 / 91
p0 −1.001e+04 ± 6503
pull
Entries 92
Mean 9631
Std Dev 9574
pull1D
Entries 92
Mean 0.0002254
Std Dev 0.7905

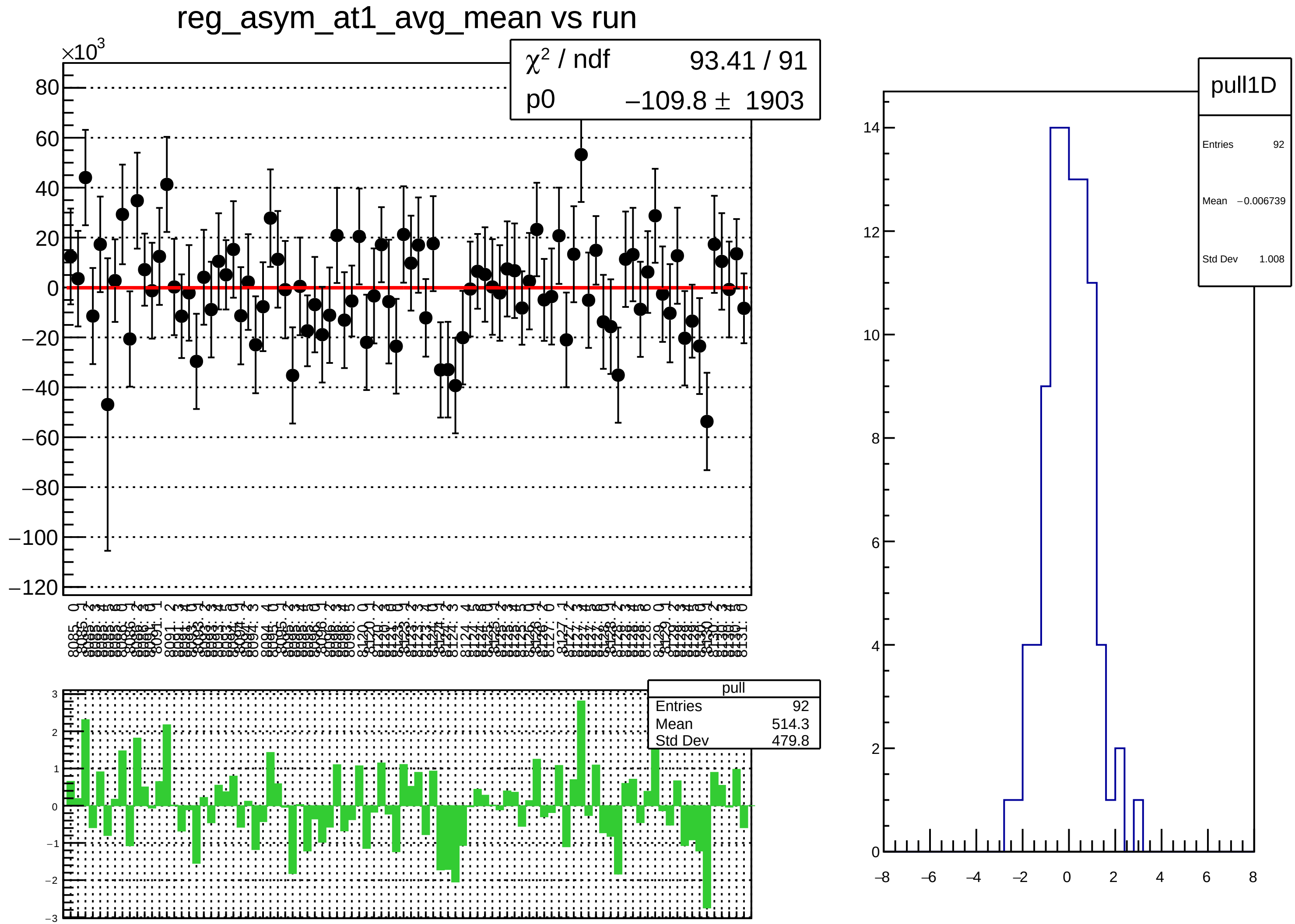

asym_atr_dd_correction_rms vs run
χ^2 / ndf 1.128e+04 / 91
p0 6223 ± 4.598
8500
8000
7500
7000
6500
6000
5500

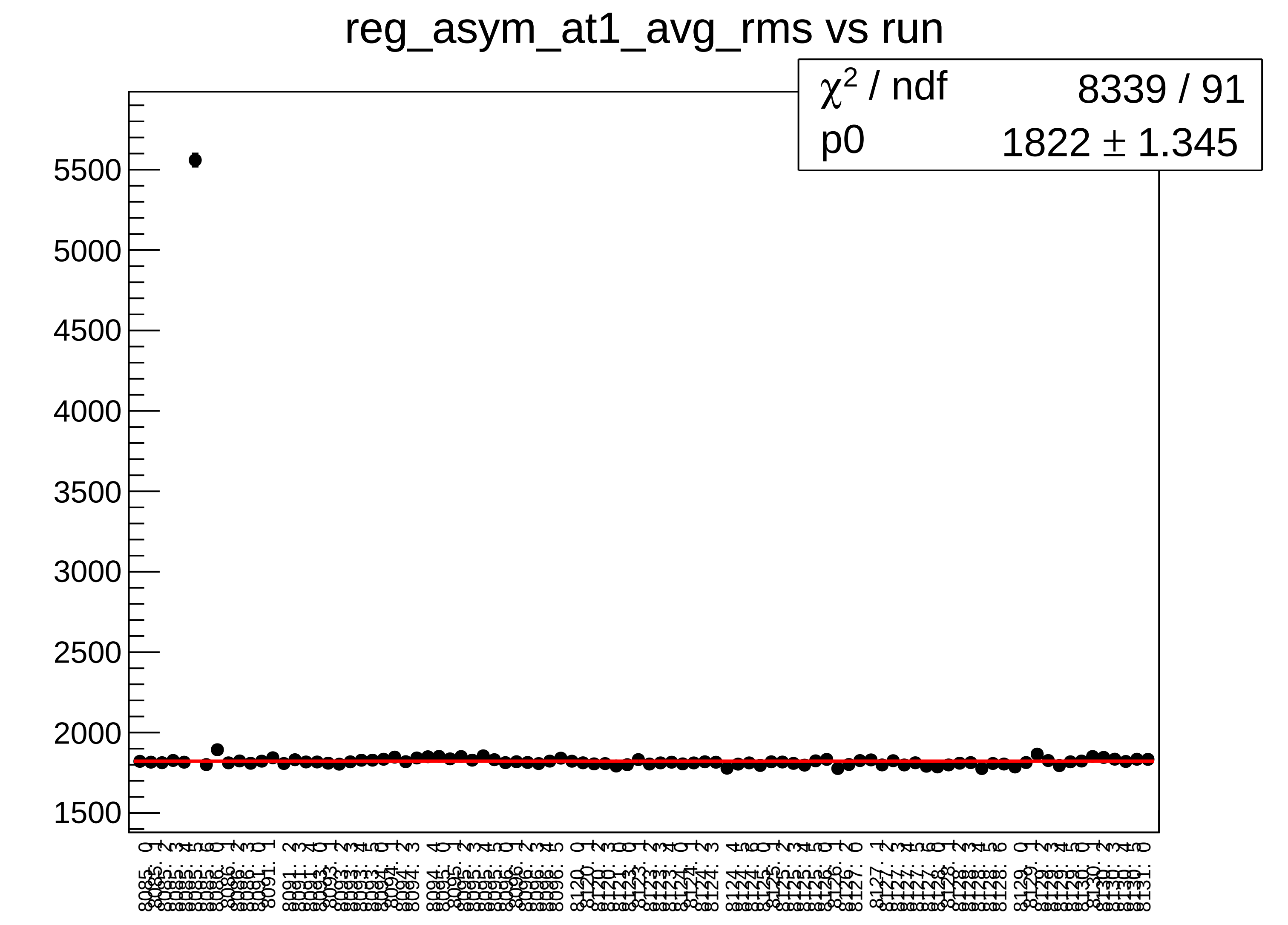


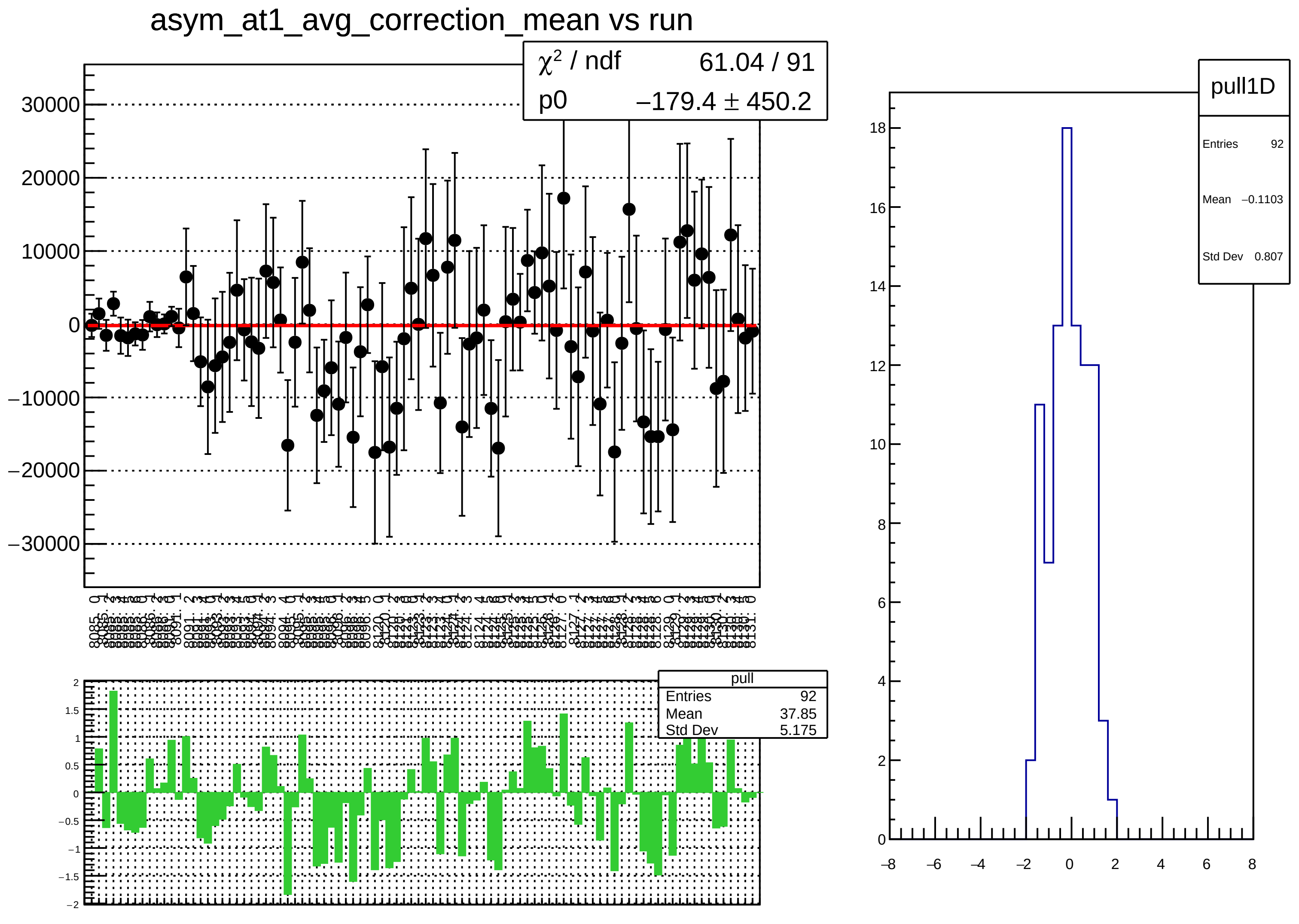
asym_atr_dd_mean vs run
×10^3
χ^2 / ndf 63.85 / 91
p0 9909 ± 6779
200
100
0
−100
−200
pull
Entries 92
Mean 396.6
Std Dev 335
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.005508
Std Dev 0.833
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



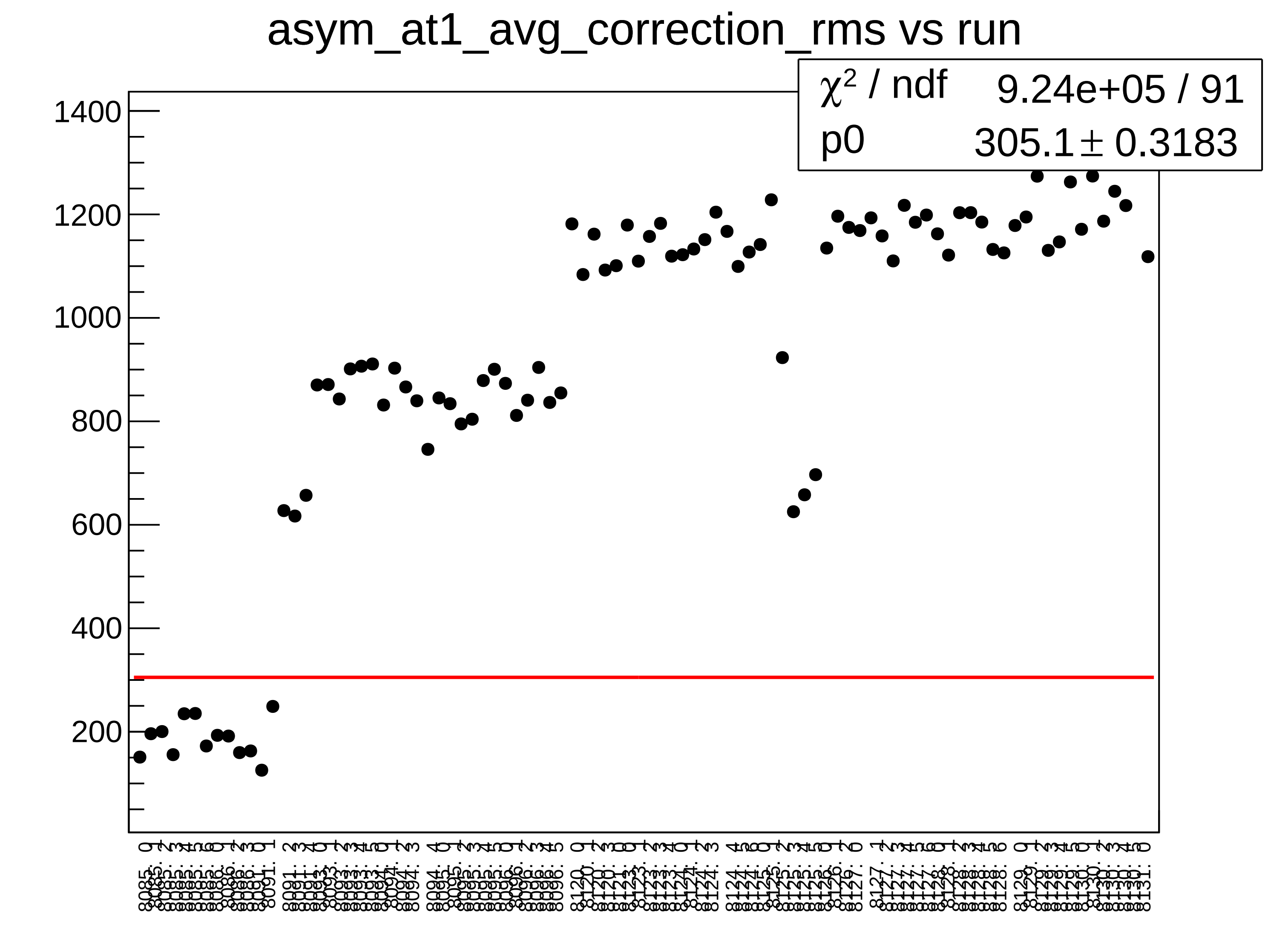
asym_atr_dd_rms vs run
χ^2 / ndf 1.115e+04 / 91
p0 6487 ± 4.793
9000
8500
8000
7500
7000
6500
6000
5500


reg_asym_at1_avg_mean vs run
×10^3
χ2 / ndf 93.41 / 91
p0 −109.8 ± 1903
pull
Entries 92
Mean 514.3
Std Dev 479.8
pull1D
Entries 92
Mean −0.006739
Std Dev 1.008

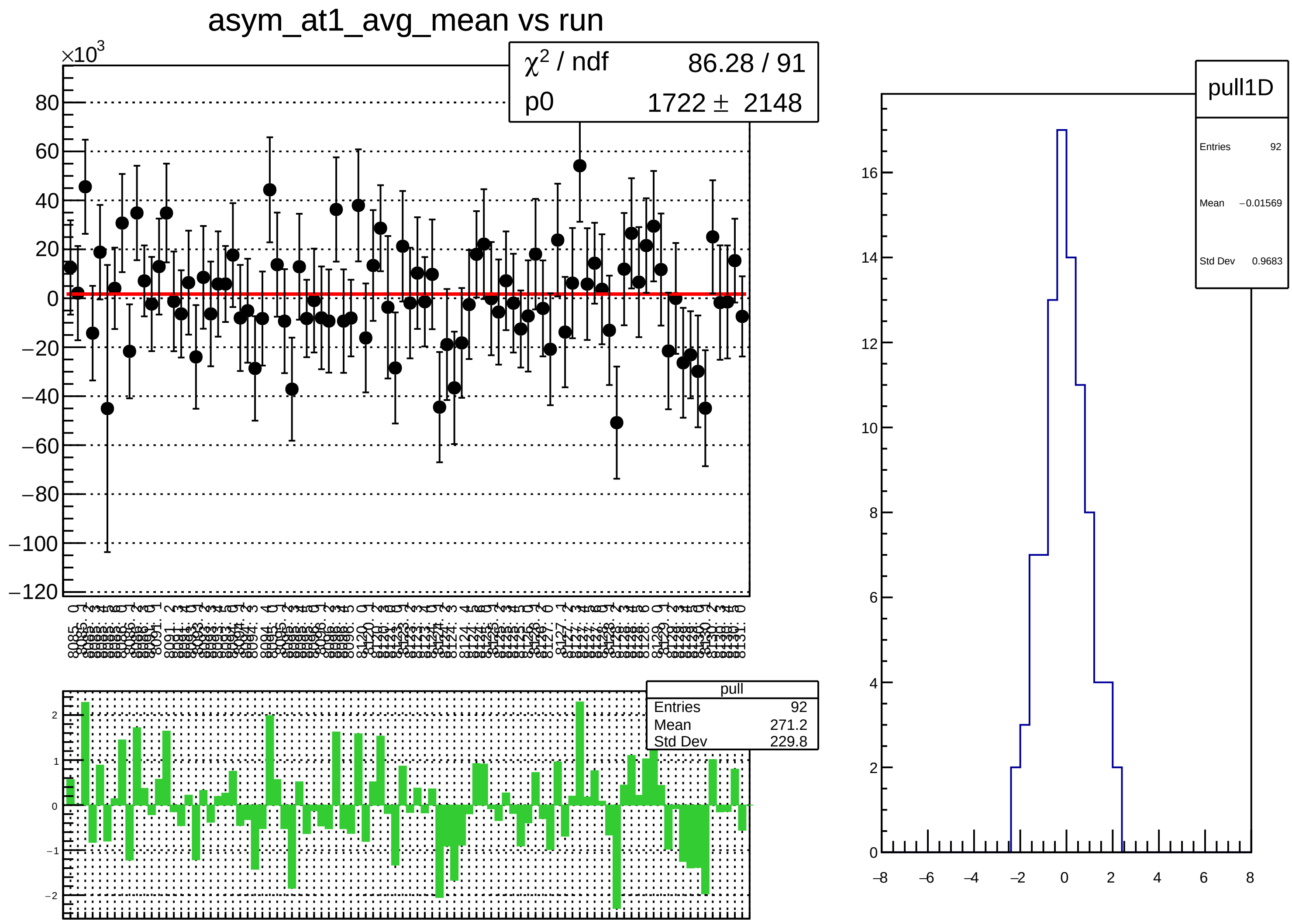

reg_asym_at1_avg_rms vs run
χ^2 / ndf 8339 / 91
p0 1822 ± 1.345
5500
5000
4500
4000
3500
3000
2500
2000
1500



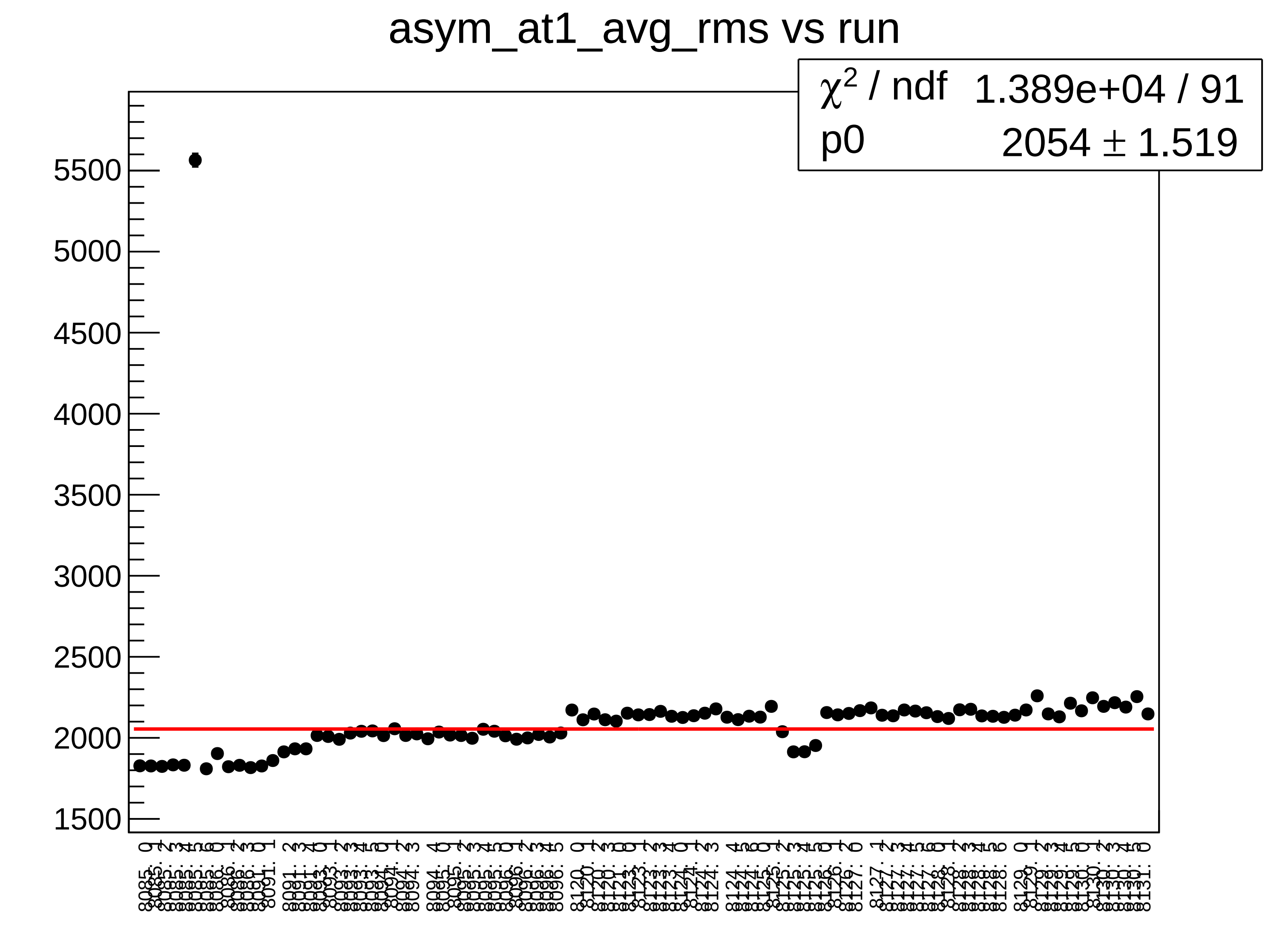
asym_at1_avg_correction_mean vs run
χ2 / ndf 61.04 / 91
p0 −179.4 ± 450.2
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 37.85
Std Dev 5.175
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.1103
Std Dev 0.807
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

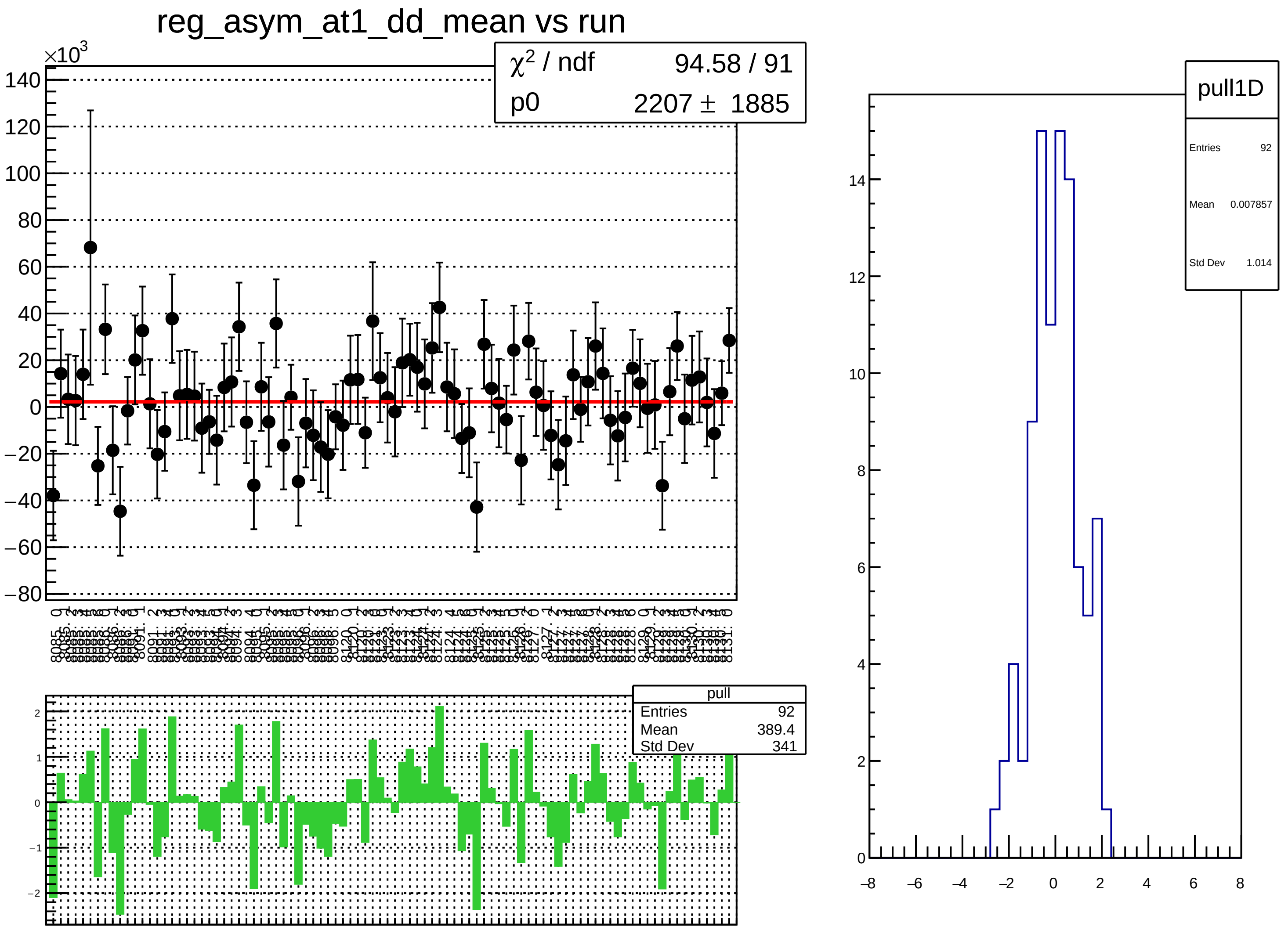


asym_at1_avg_correction_rms vs run
χ2 / ndf 9.24e+05 / 91
p0 305.1 ± 0.3183
1400
1200
1000
800
600
400
200

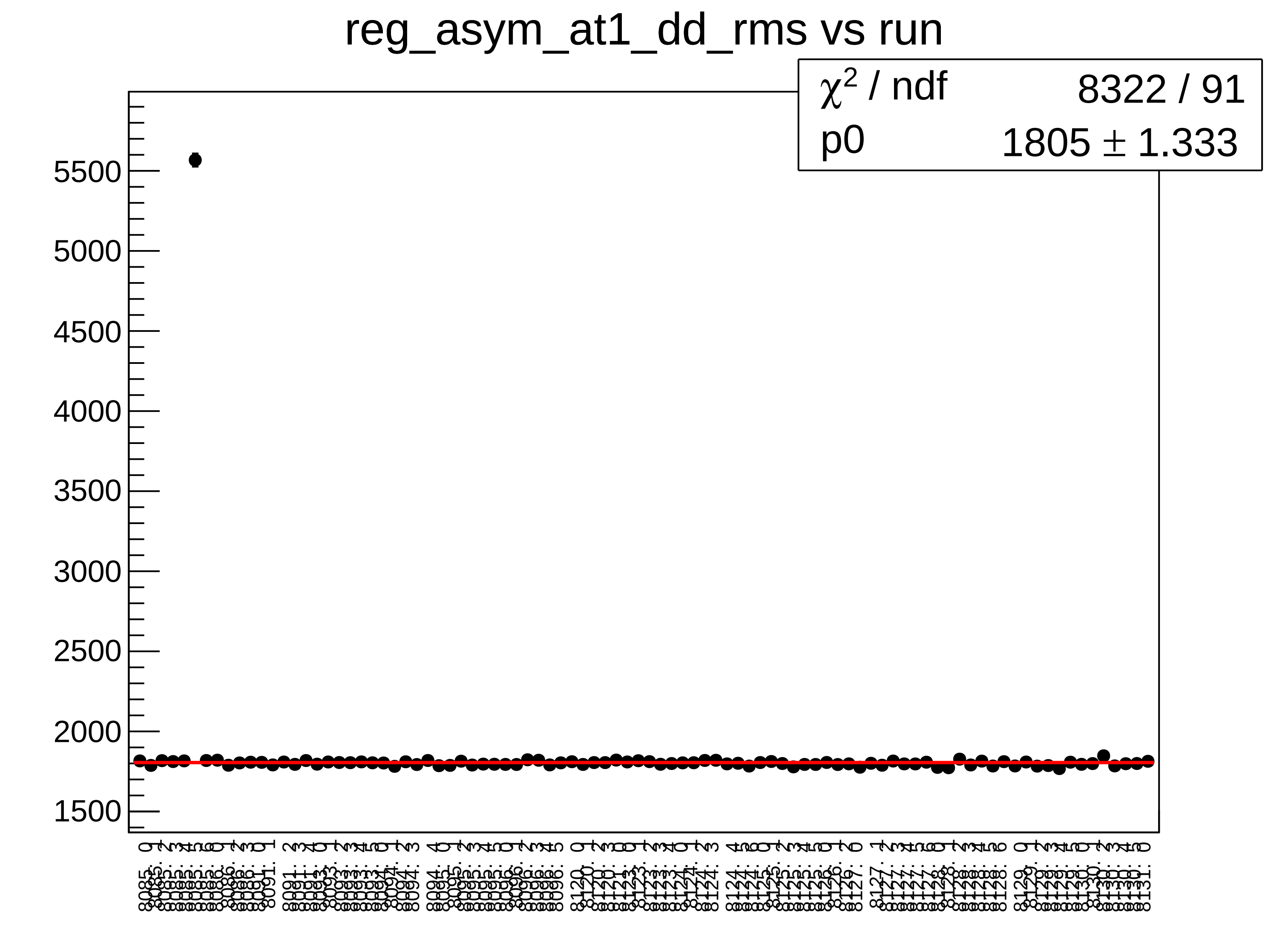


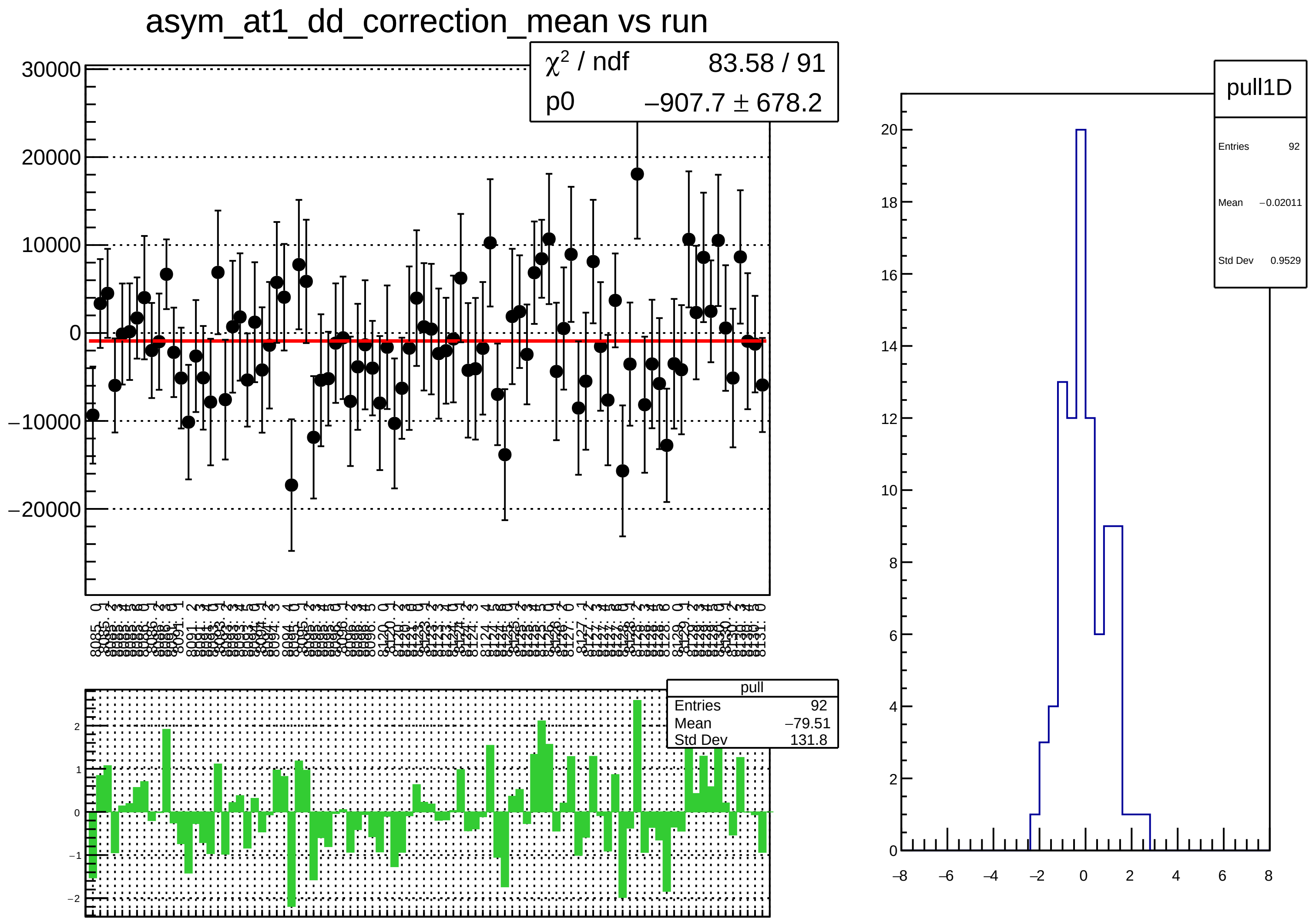
asym_at1_avg_mean vs run
$\times10^{3}$
χ^2 / ndf 86.28 / 91
p0 1722 ± 2148
80
60
40
20
0
−20
−40
−60
−80
−100
−120
pull
Entries 92
Mean 271.2
Std Dev 229.8
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.01569
Std Dev 0.9683
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

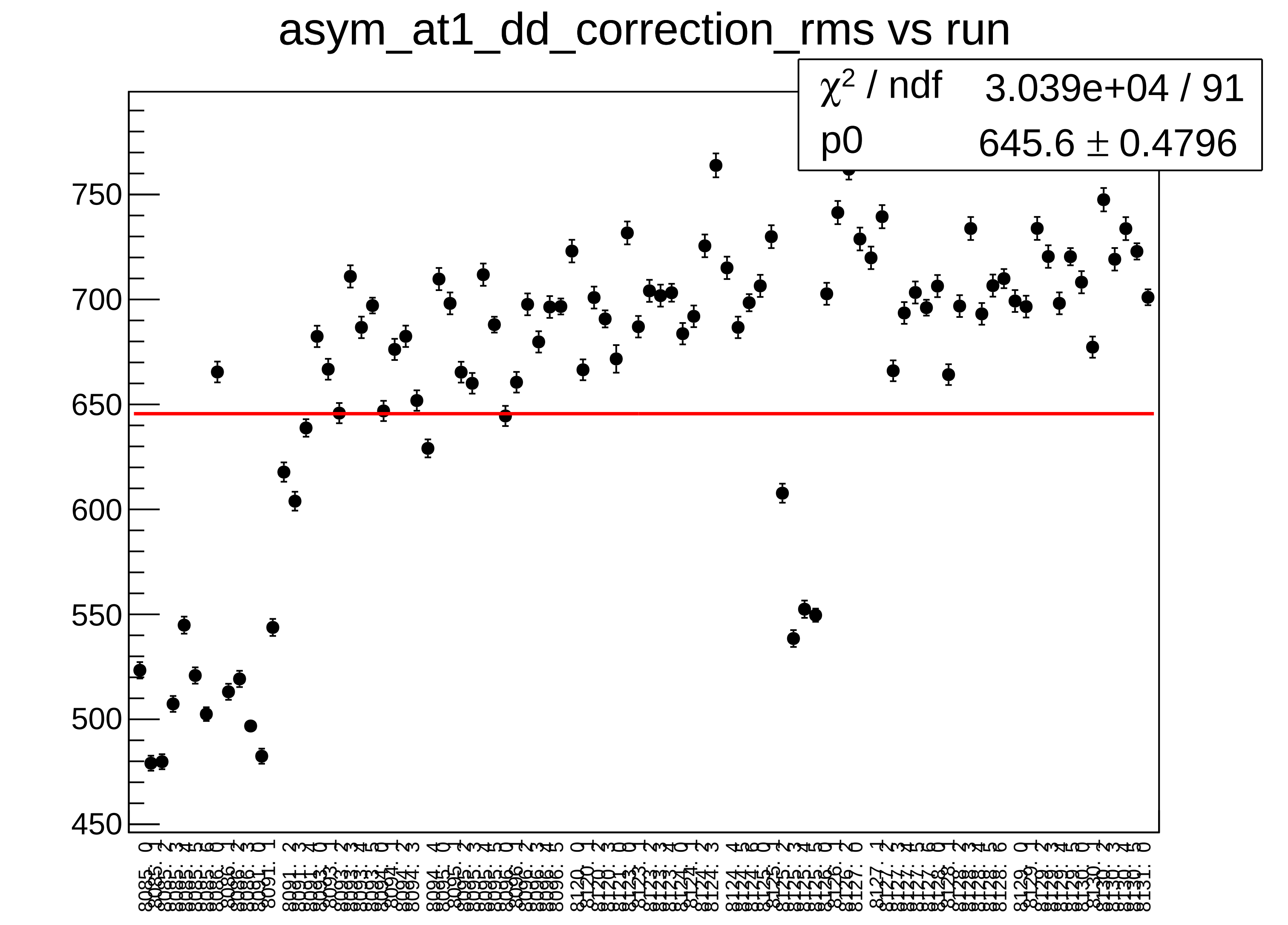

asym_at1_avg_rms vs run
χ² / ndf 1.389e+04 / 91
p0 2054 ± 1.519
5500
5000
4500
4000
3500
3000
2500
2000
1500

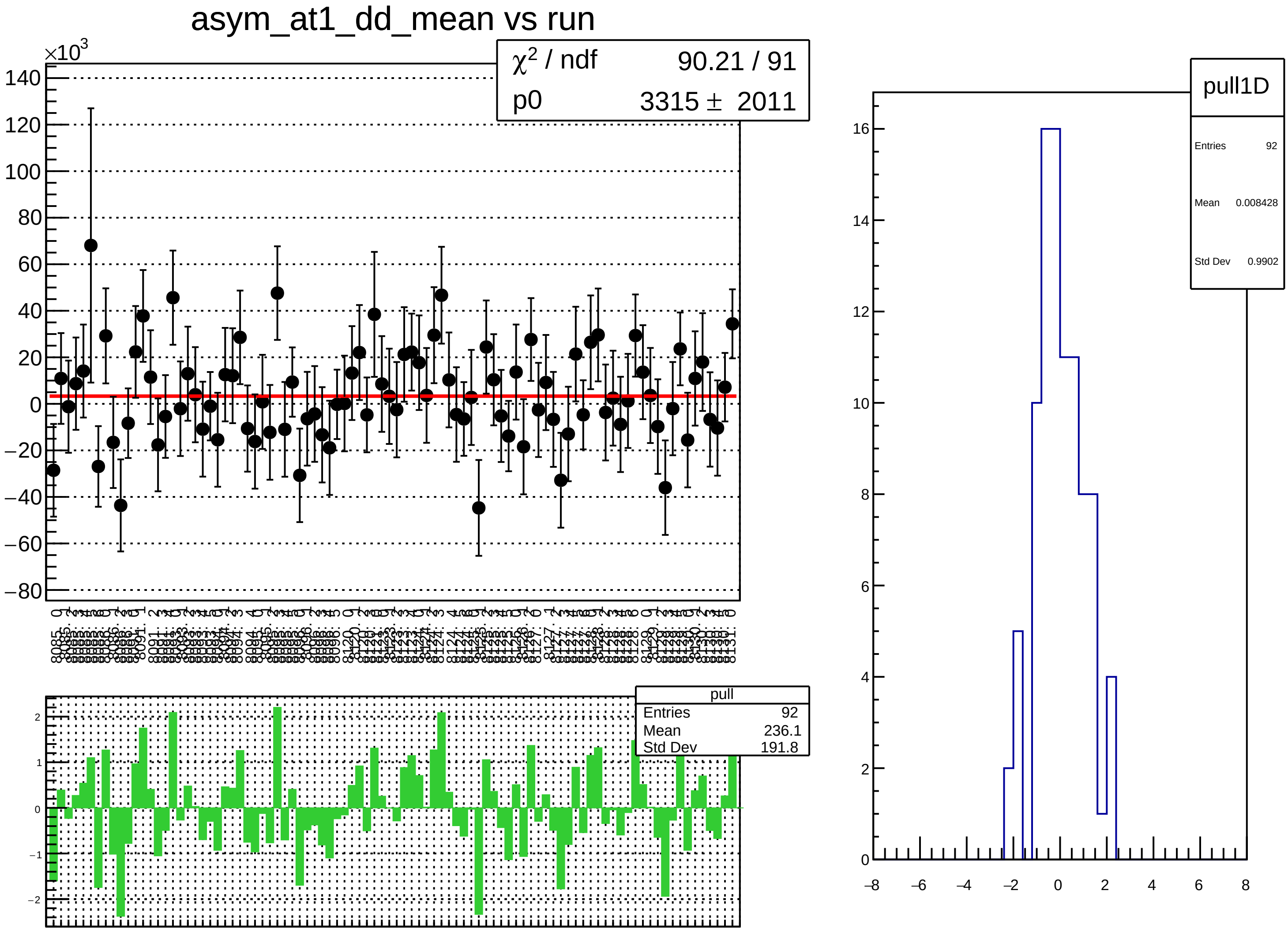


reg_asym_at1_dd_mean vs run
$\times10^3$
χ^2 / ndf 94.58 / 91
p0 2207 ± 1885
pull
Entries 92
Mean 389.4
Std Dev 341
pull1D
Entries 92
Mean 0.007857
Std Dev 1.014

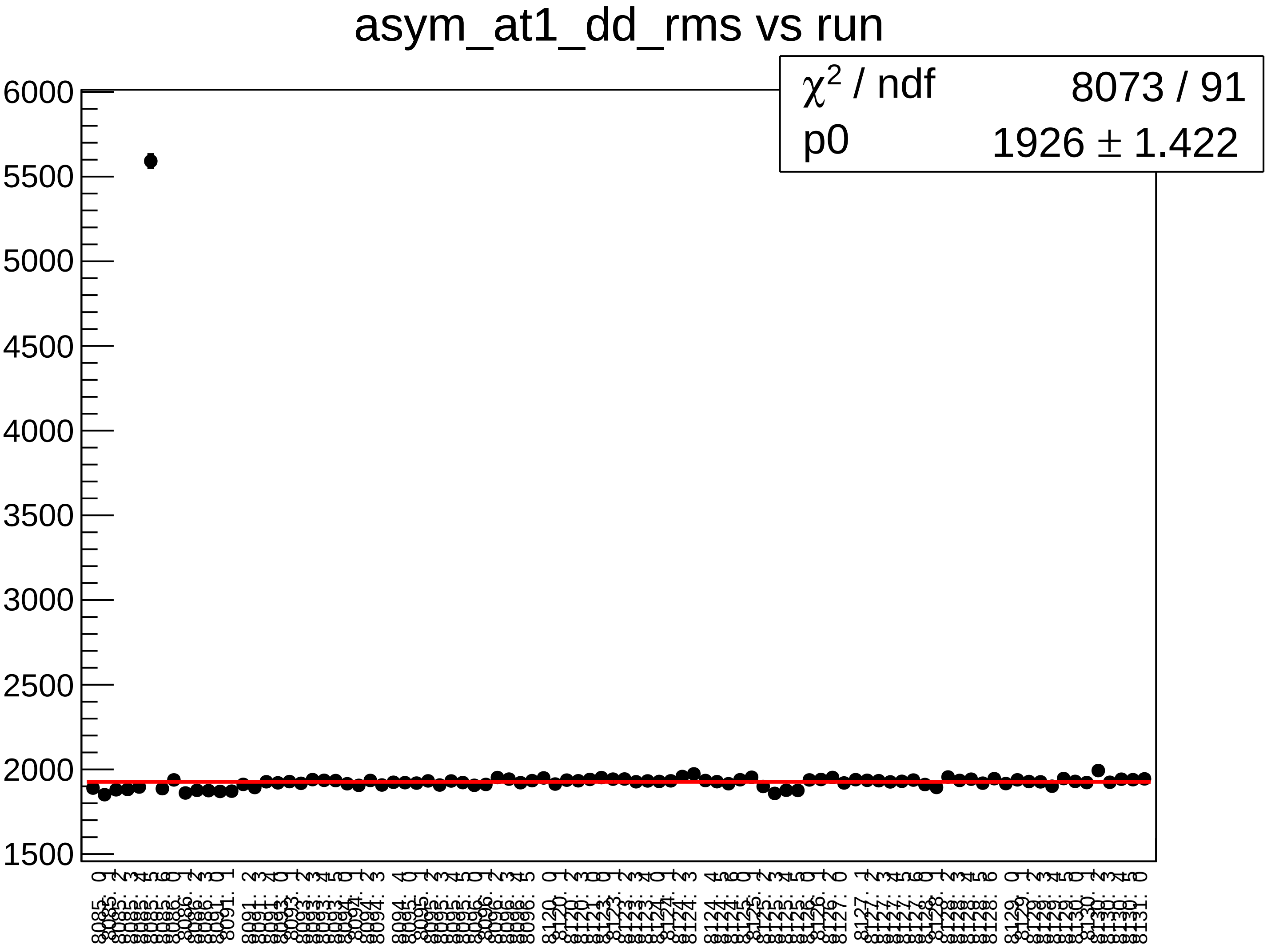

reg_asym_at1_dd_rms vs run
χ2 / ndf 8322 / 91
p0 1805 ± 1.333
5500
5000
4500
4000
3500
3000
2500
2000
1500

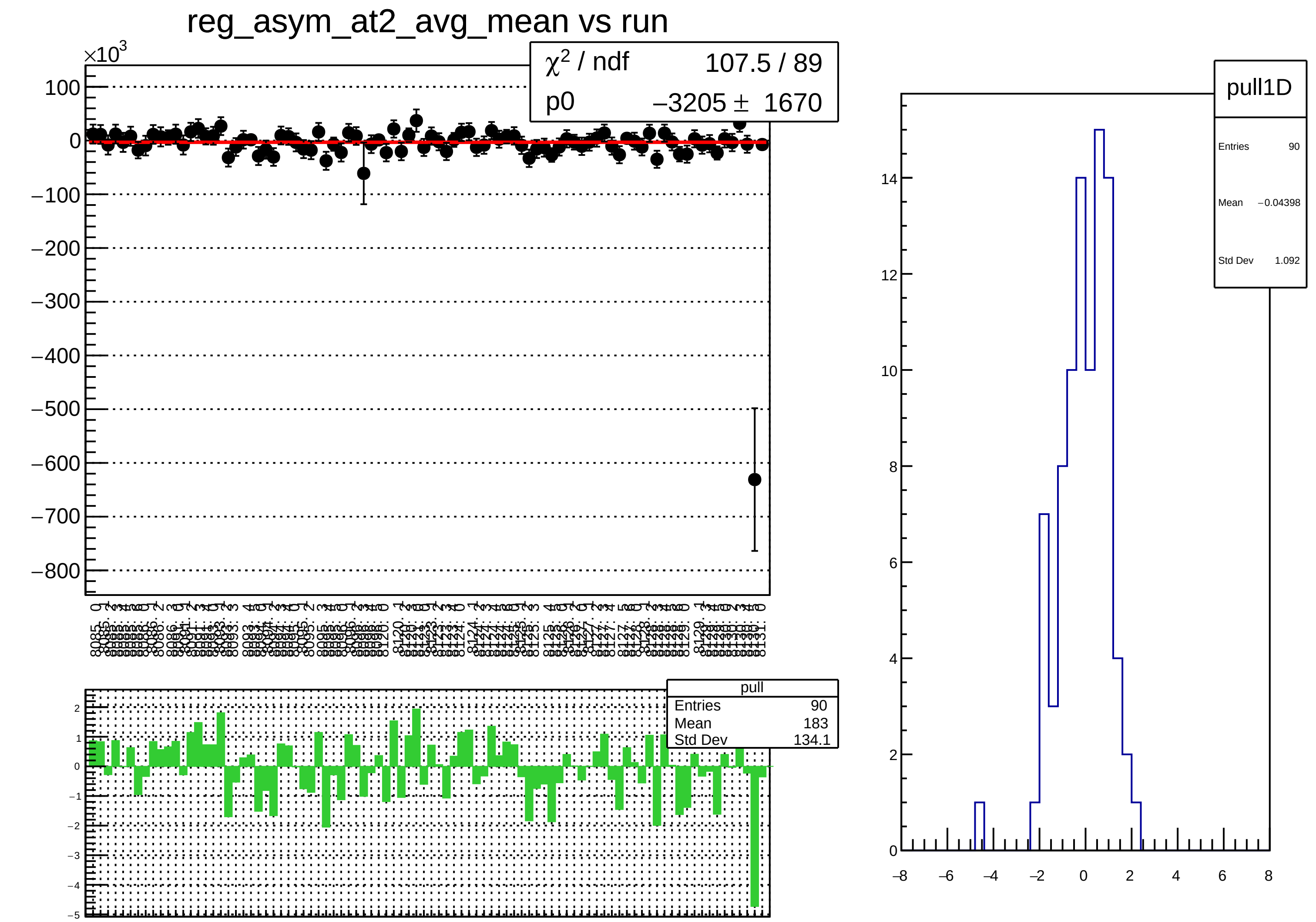

asym_at1_dd_correction_mean vs run
χ^2 / ndf 83.58 / 91
p0 −907.7 ± 678.2
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −79.51
Std Dev 131.8
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.02011
Std Dev 0.9529
20
18
16
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8

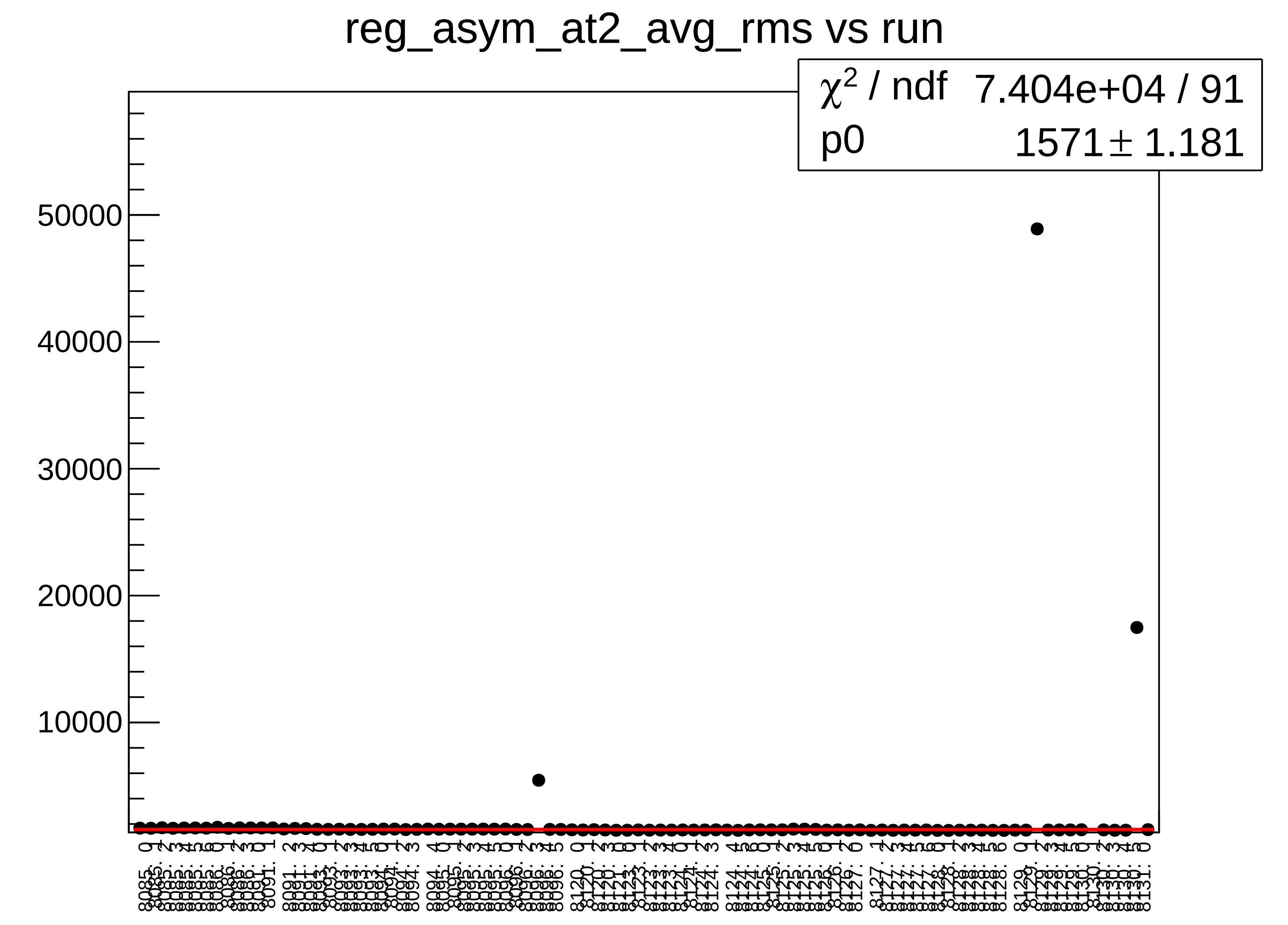

asym_at1_dd_correction_rms vs run
χ^2 / ndf 3.039e+04 / 91
p0 645.6 ± 0.4796
750
700
650
600
550
500
450



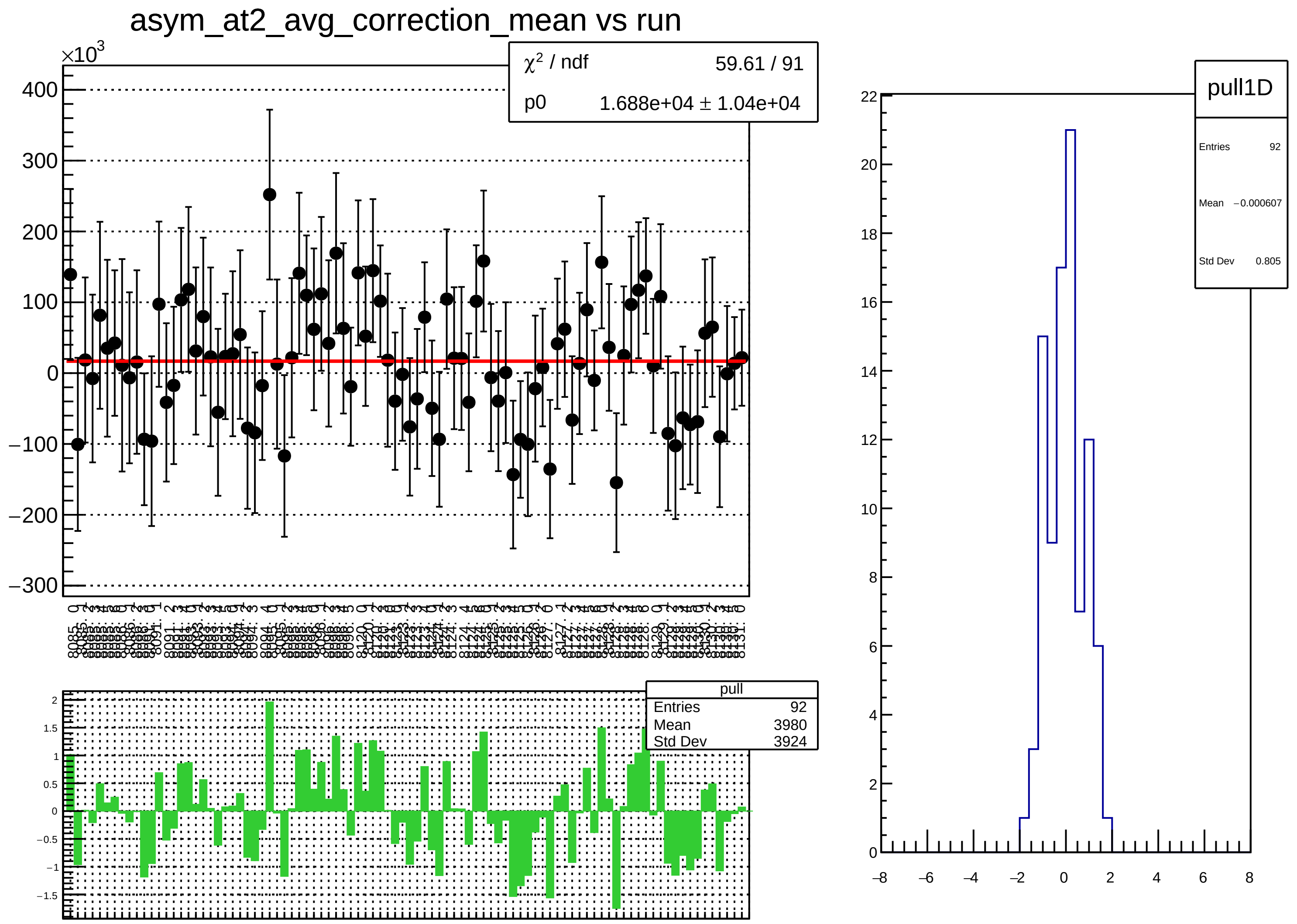
asym_at1_dd_mean vs run
×10^3
χ^2 / ndf 90.21 / 91
p0 3315 ± 2011
pull
Entries 92
Mean 236.1
Std Dev 191.8
pull1D
Entries 92
Mean 0.008428
Std Dev 0.9902


asym_at1_dd_rms vs run
χ² / ndf 8073 / 91
p0 1926 ± 1.422
6000
5500
5000
4500
4000
3500
3000
2500
2000
1500

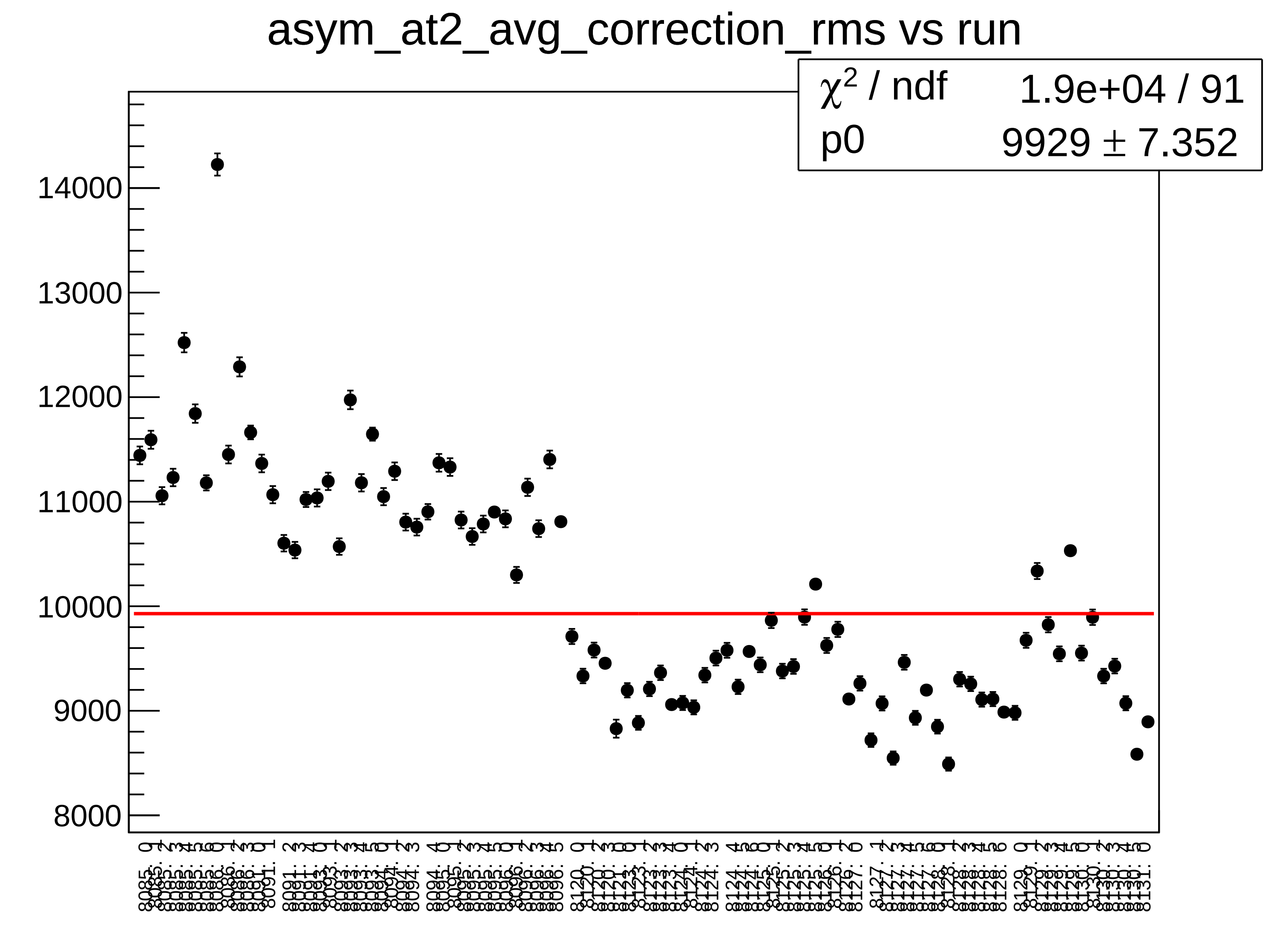

reg_asym_at2_avg_mean vs run
×10^3
χ2 / ndf 107.5 / 89
p0 −3205 ± 1670
100
0
−100
−200
−300
−400
−500
−600
−700
−800
pull
Entries 90
Mean 183
Std Dev 134.1
2
1
0
−1
−2
−3
−4
−5
pull1D
Entries 90
Mean −0.04398
Std Dev 1.092
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



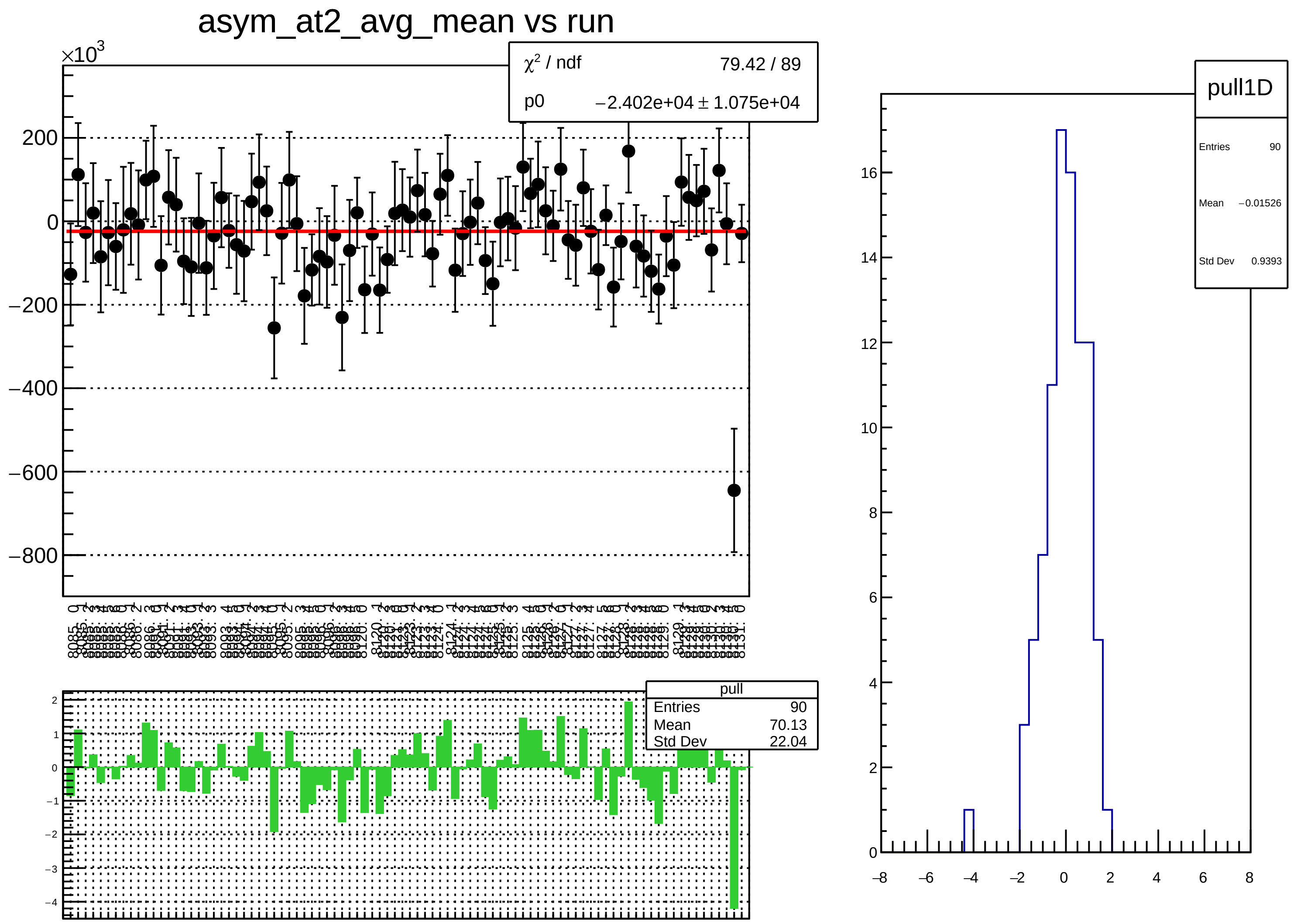
reg_asym_at2_avg_rms vs run
χ2 / ndf 7.404e+04 / 91
p0 1571 ± 1.181
50000
40000
30000
20000
10000



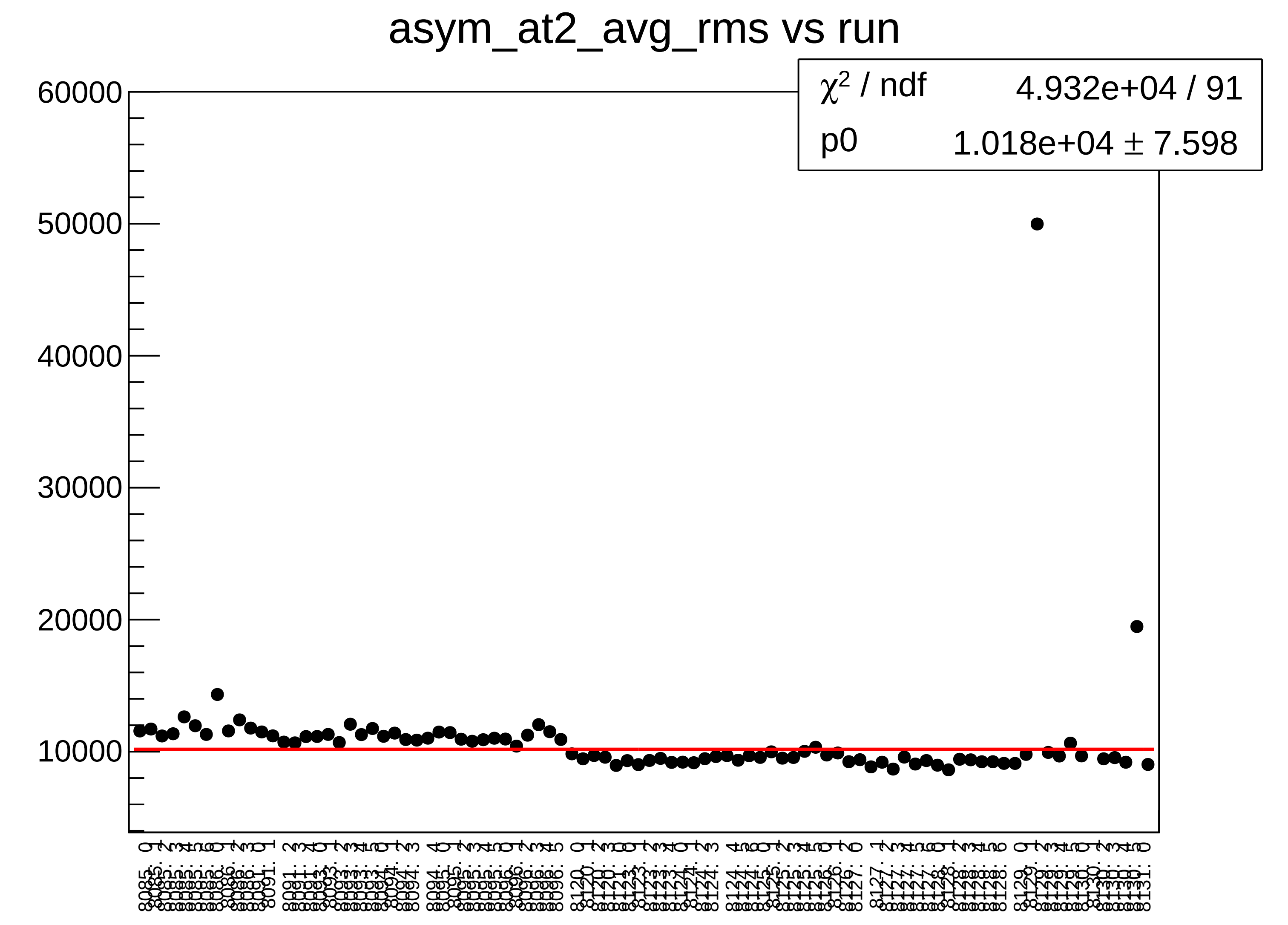
asym_at2_avg_correction_mean vs run
$\times10^3$
χ^2 / ndf 59.61 / 91
p0 1.688e+04 ± 1.04e+04
pull
Entries 92
Mean 3980
Std Dev 3924
pull1D
Entries 92
Mean −0.000607
Std Dev 0.805

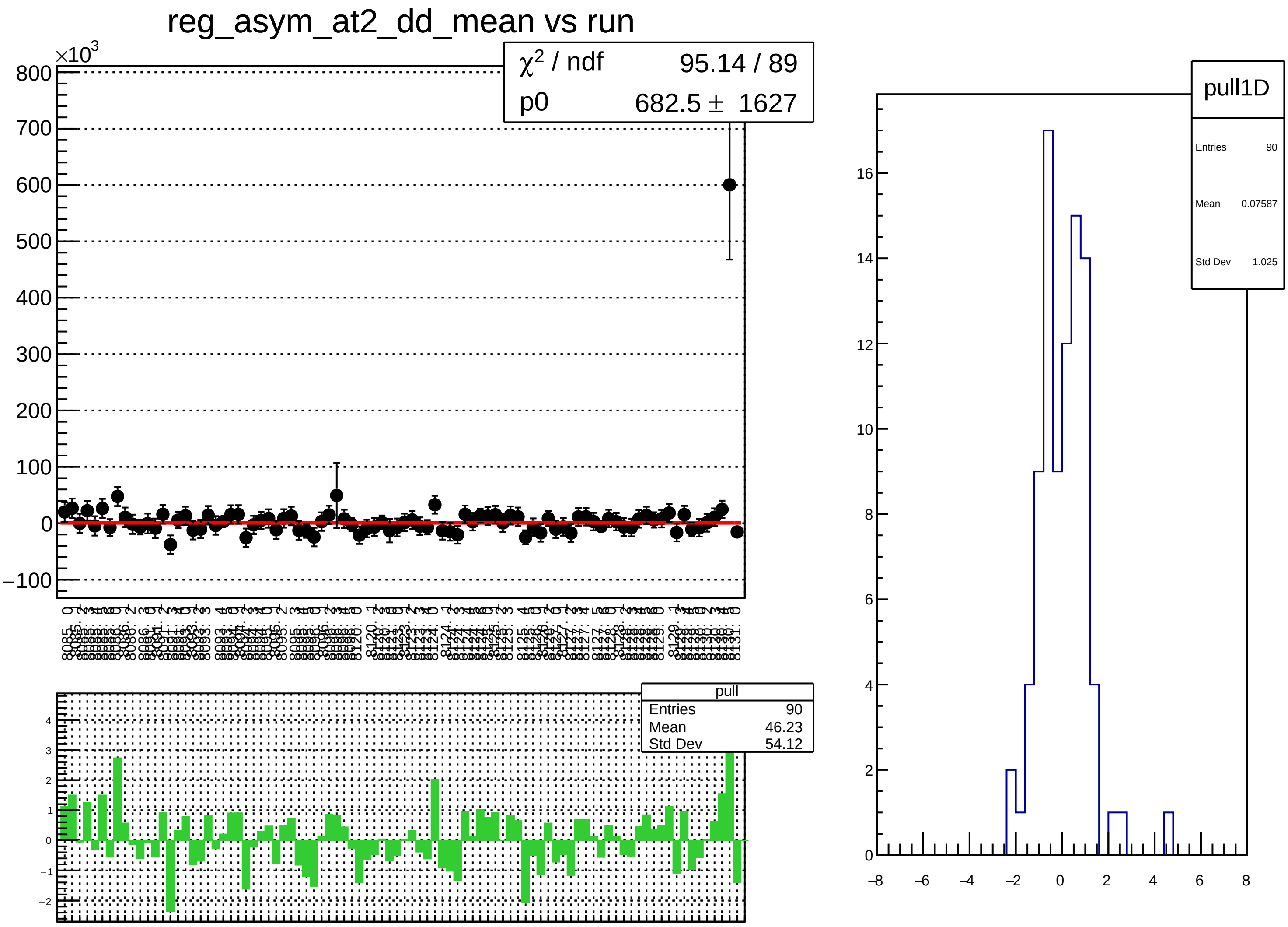


asym_at2_avg_correction_rms vs run
χ^2 / ndf 1.9e+04 / 91
p0 9929 ± 7.352
14000
13000
12000
11000
10000
9000
8000

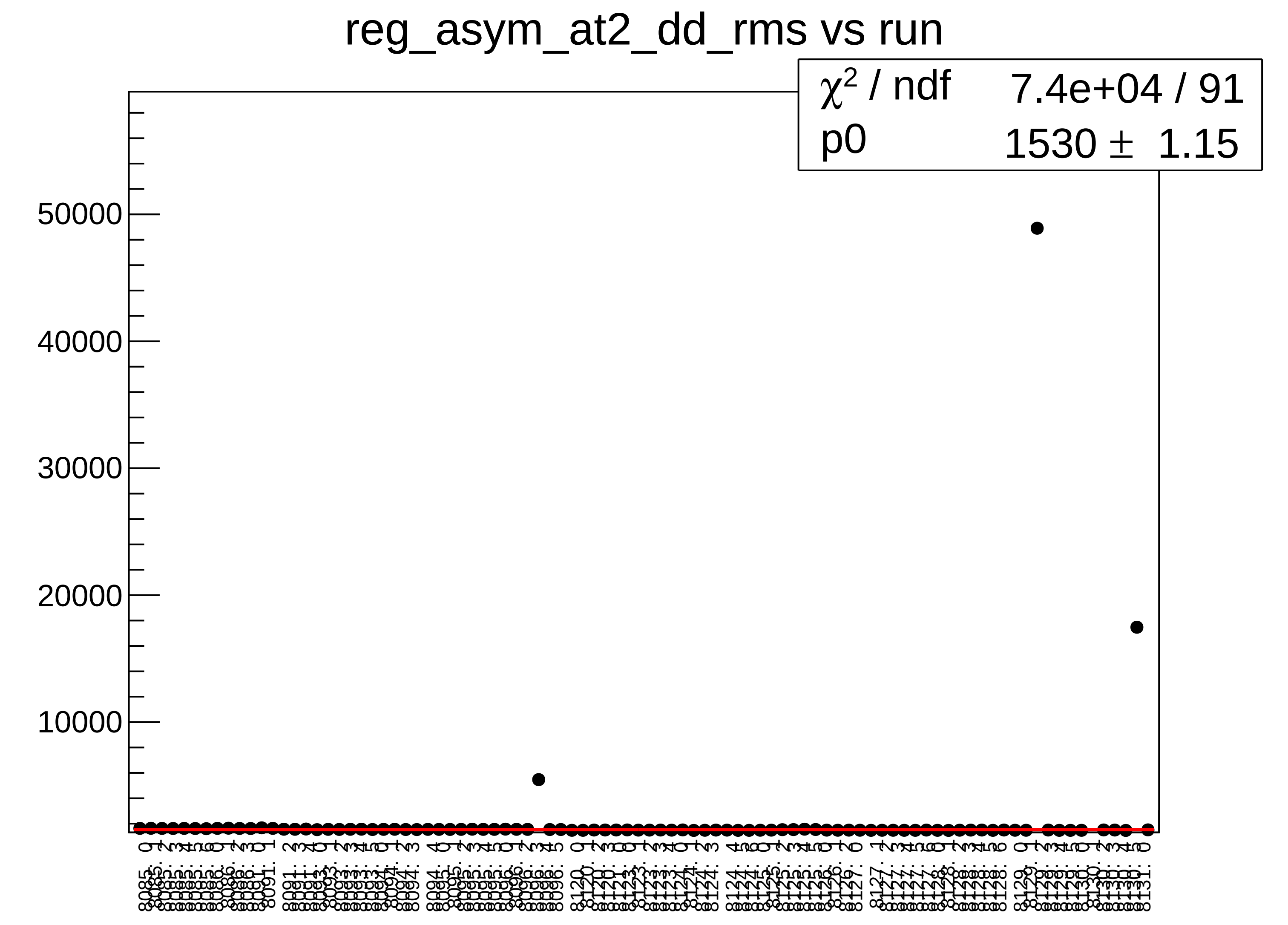


asym_at2_avg_mean vs run
×10^3
χ2 / ndf 79.42 / 89
p0 −2.402e+04 ± 1.075e+04
pull
Entries 90
Mean 70.13
Std Dev 22.04
pull1D
Entries 90
Mean −0.01526
Std Dev 0.9393

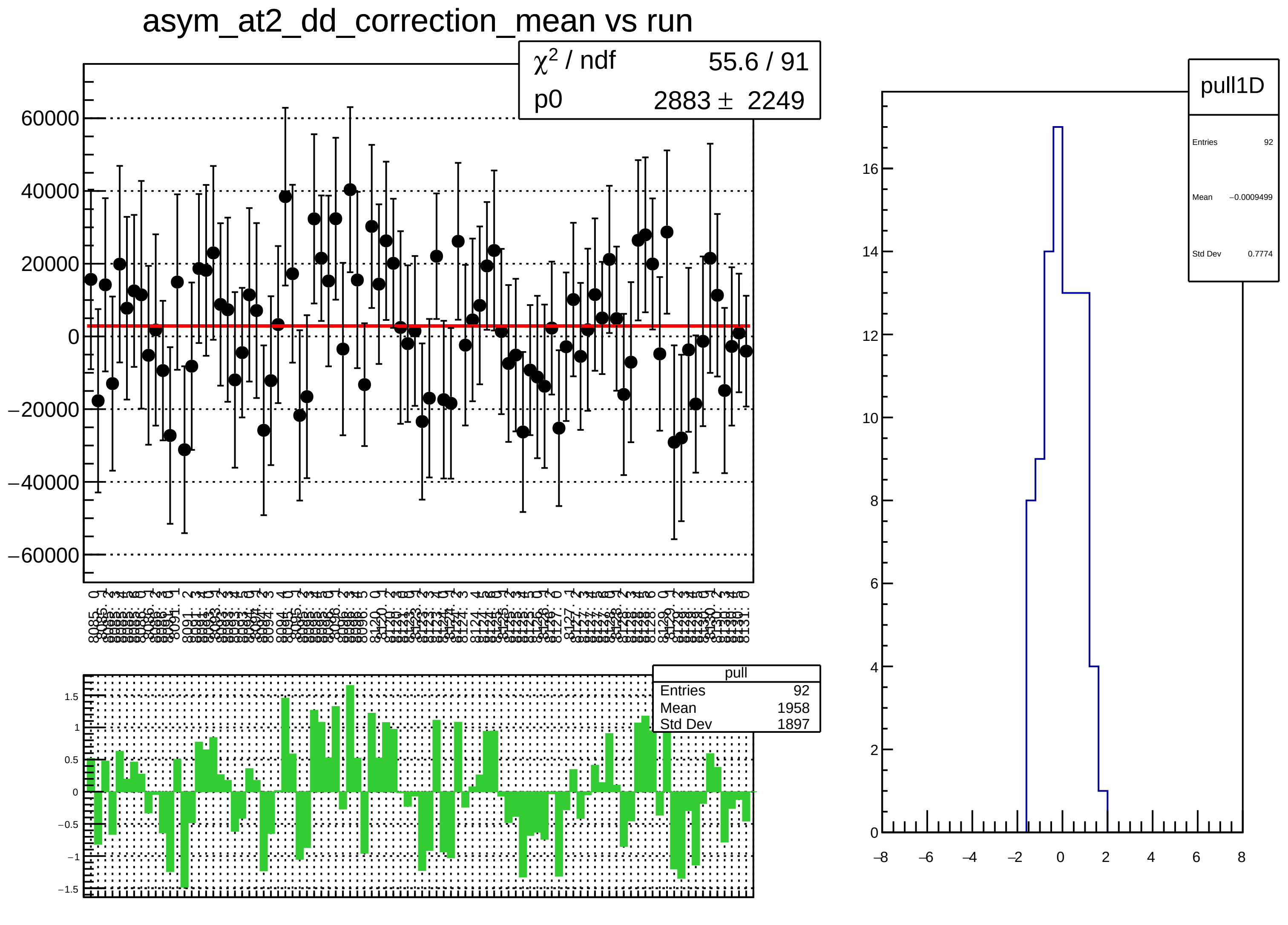

asym_at2_avg_rms vs run
χ^2 / ndf 4.932e+04 / 91
p0 1.018e+04 ± 7.598
60000
50000
40000
30000
20000
10000

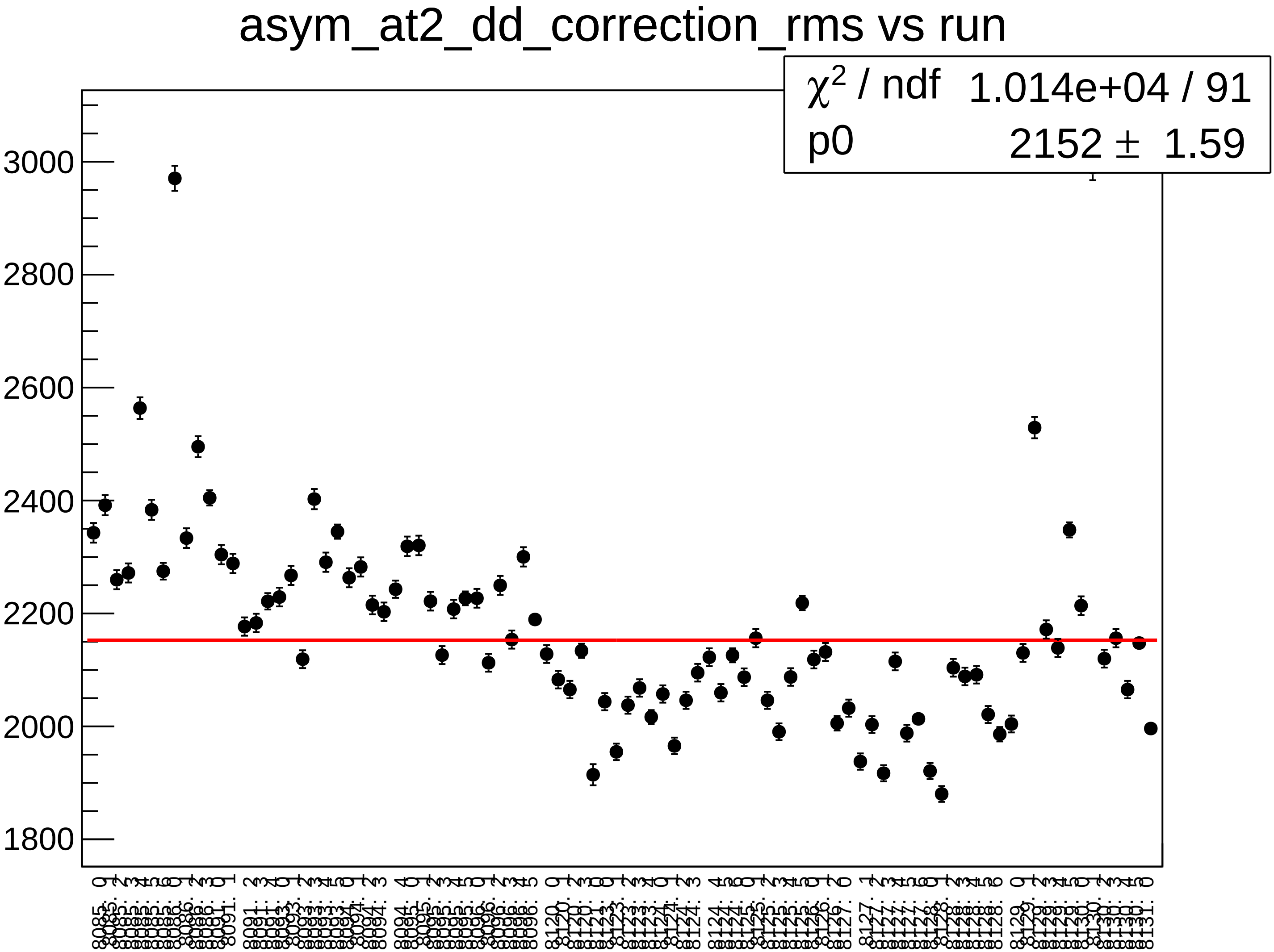


reg_asym_at2_dd_mean vs run
×10^3
χ2 / ndf 95.14 / 89
p0 682.5 ± 1627
pull
Entries 90
Mean 46.23
Std Dev 54.12
pull1D
Entries 90
Mean 0.07587
Std Dev 1.025

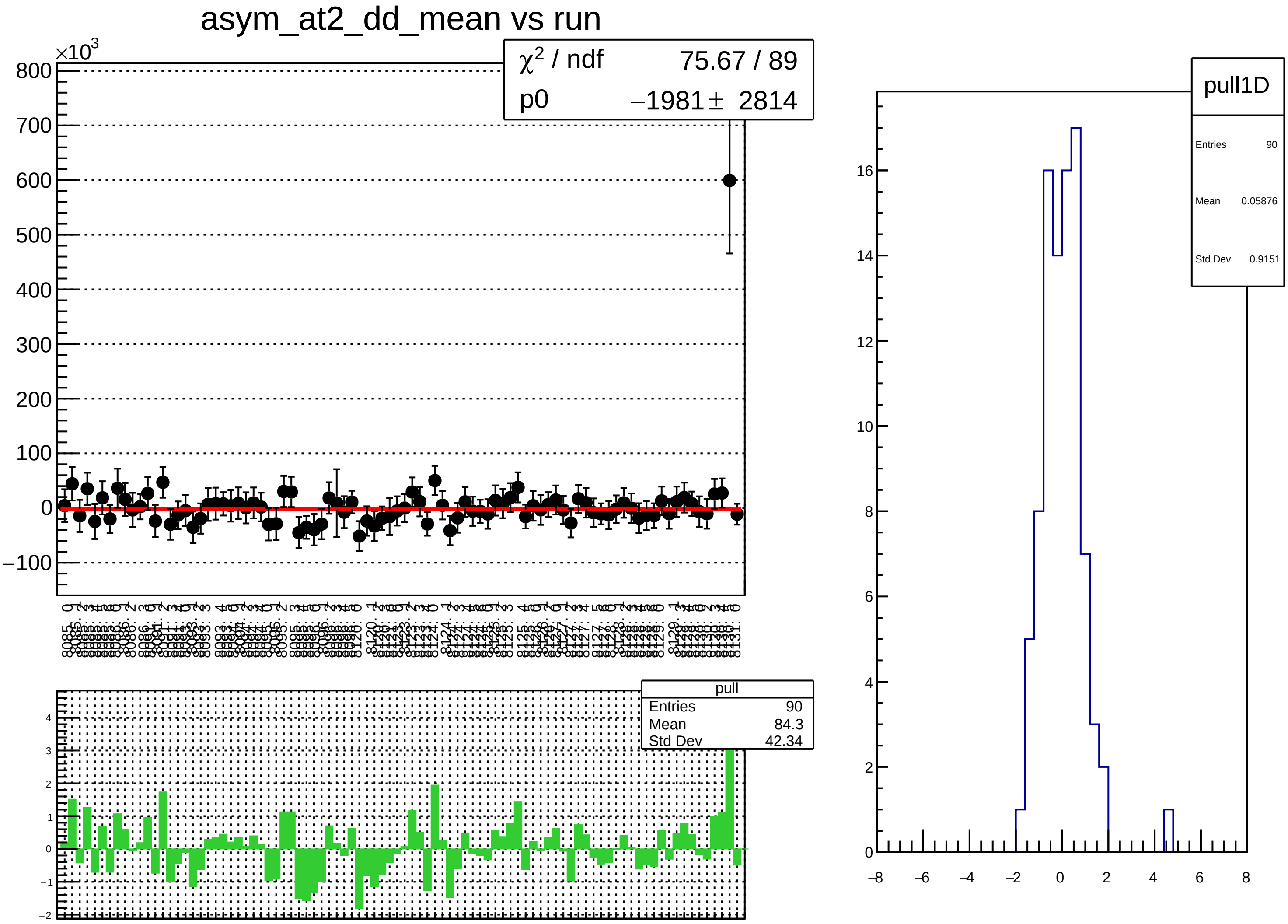


reg_asym_at2_dd_rms vs run
χ2 / ndf 7.4e+04 / 91
p0 1530 ± 1.15
50000
40000
30000
20000
10000

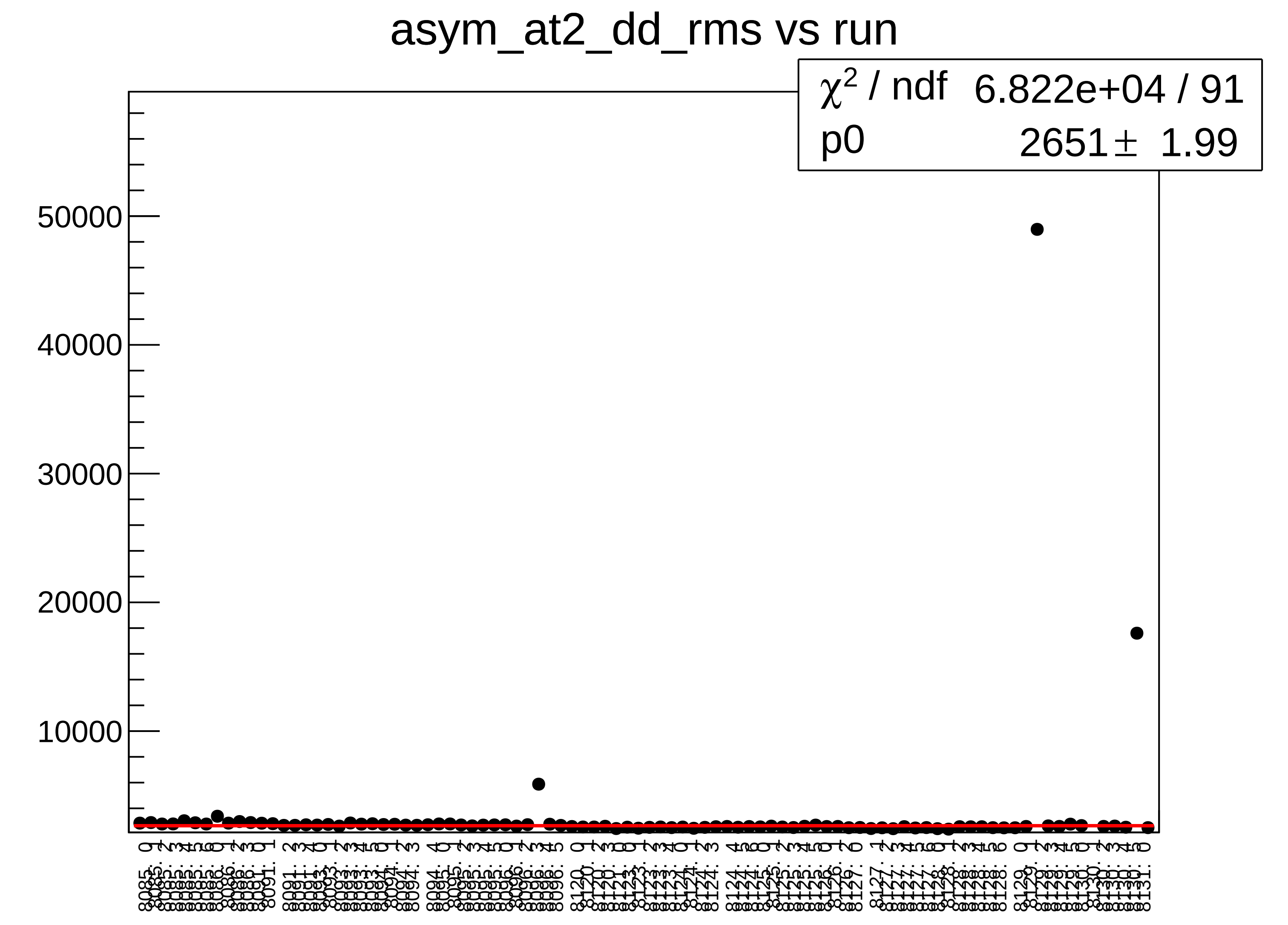

asym_at2_dd_correction_mean vs run
χ^2 / ndf 55.6 / 91
p0 2883 ± 2249
pull
Entries 92
Mean 1958
Std Dev 1897
pull1D
Entries 92
Mean −0.0009499
Std Dev 0.7774

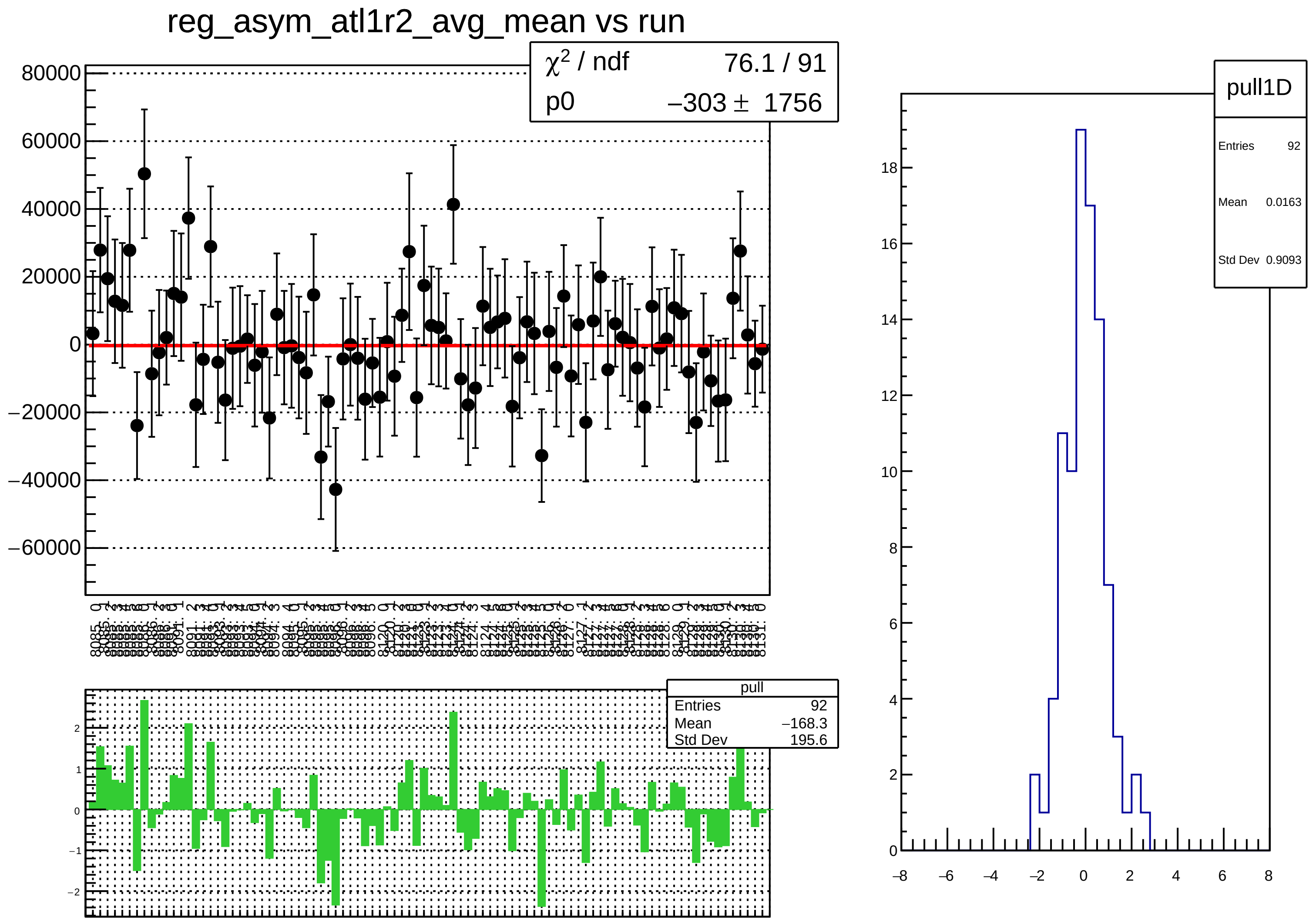


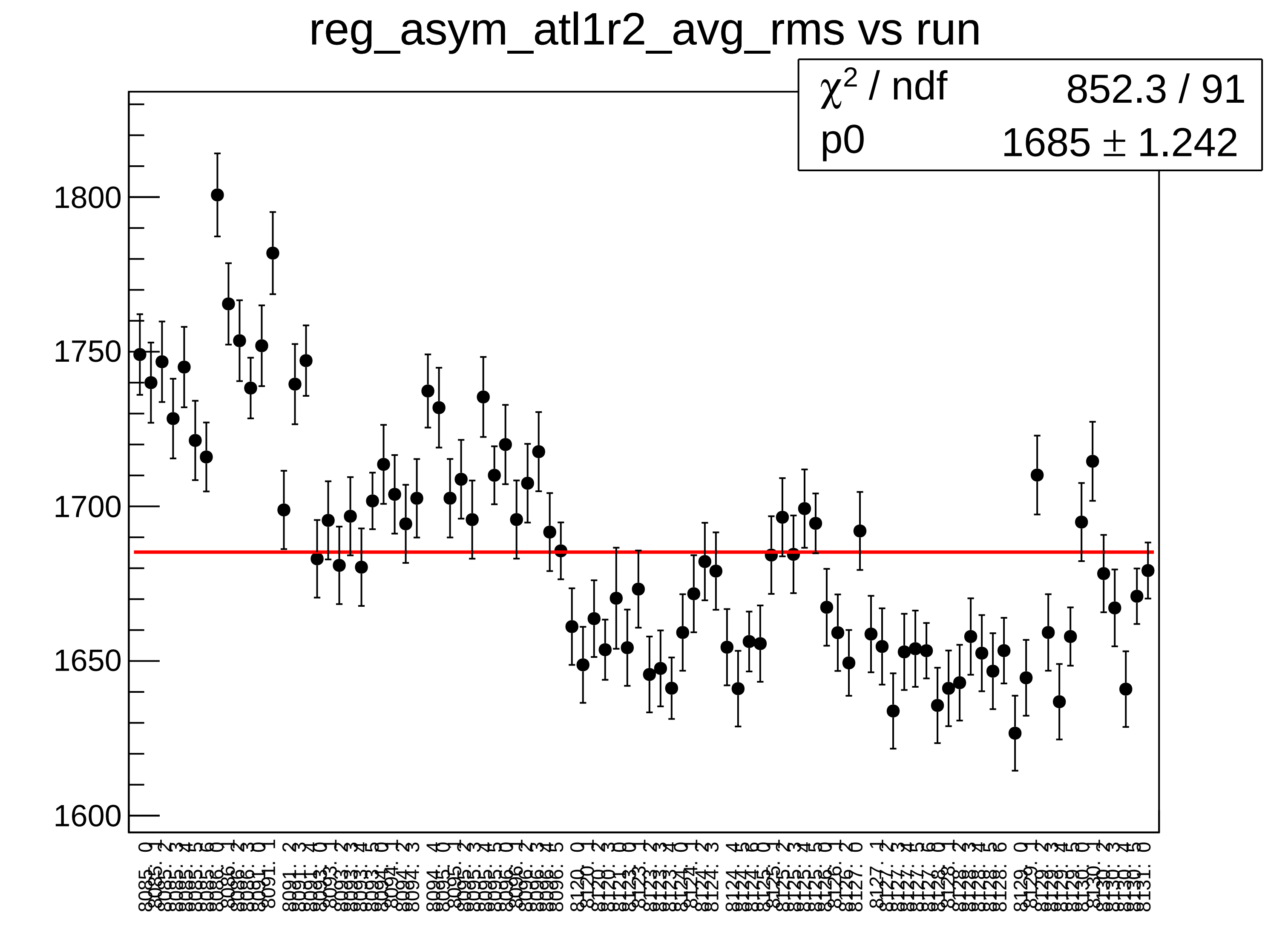
asym_at2_dd_correction_rms vs run
χ^2 / ndf 1.014e+04 / 91
p0 2152 ± 1.59
3000
2800
2600
2400
2200
2000
1800



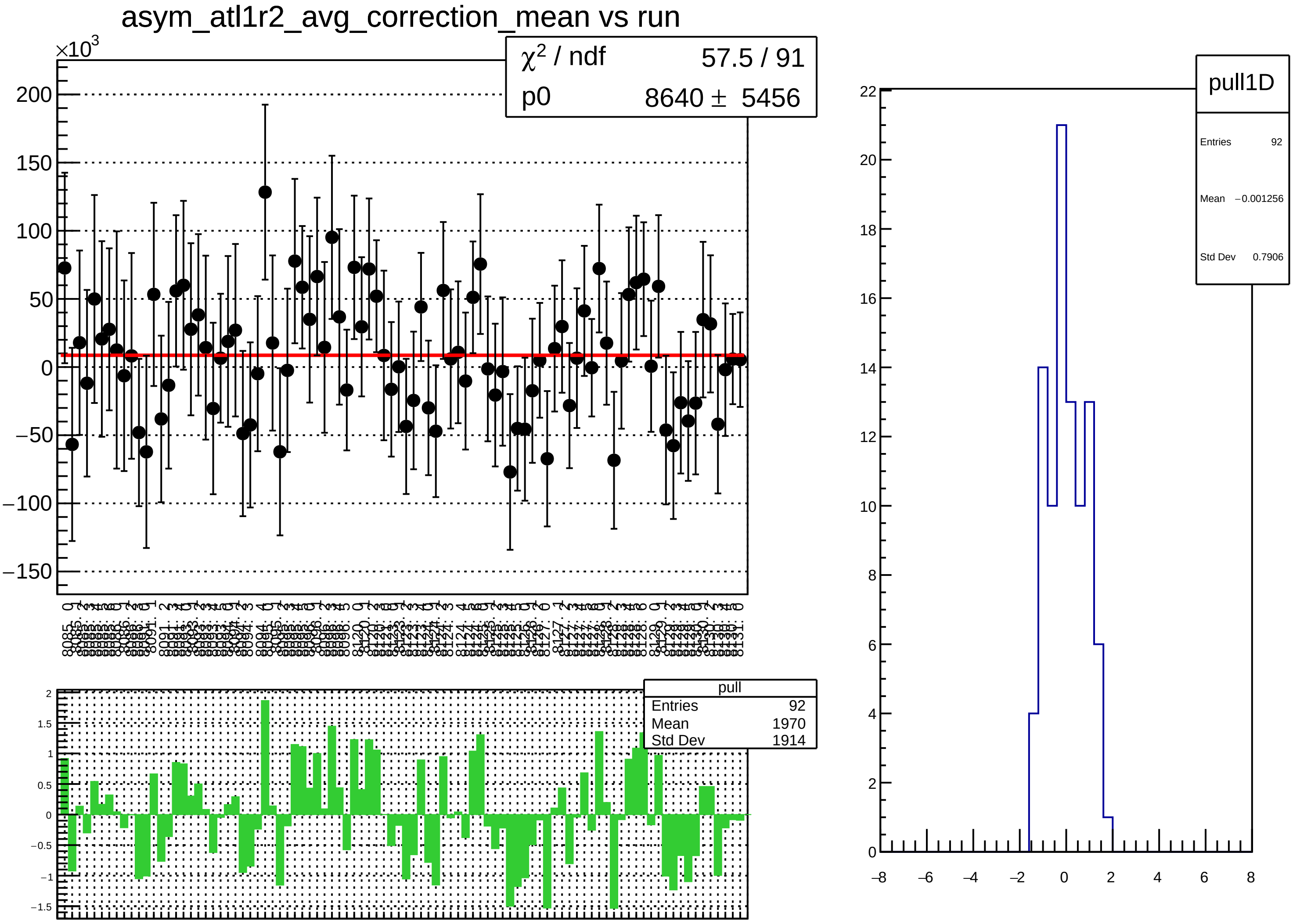
asym_at2_dd_mean vs run
χ^2 / ndf 75.67 / 89
p0 −1981 ± 2814
×10^3
800
700
600
500
400
300
200
100
0
−100
pull
Entries 90
Mean 84.3
Std Dev 42.34
4
3
2
1
0
−1
−2
pull1D
Entries 90
Mean 0.05876
Std Dev 0.9151
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

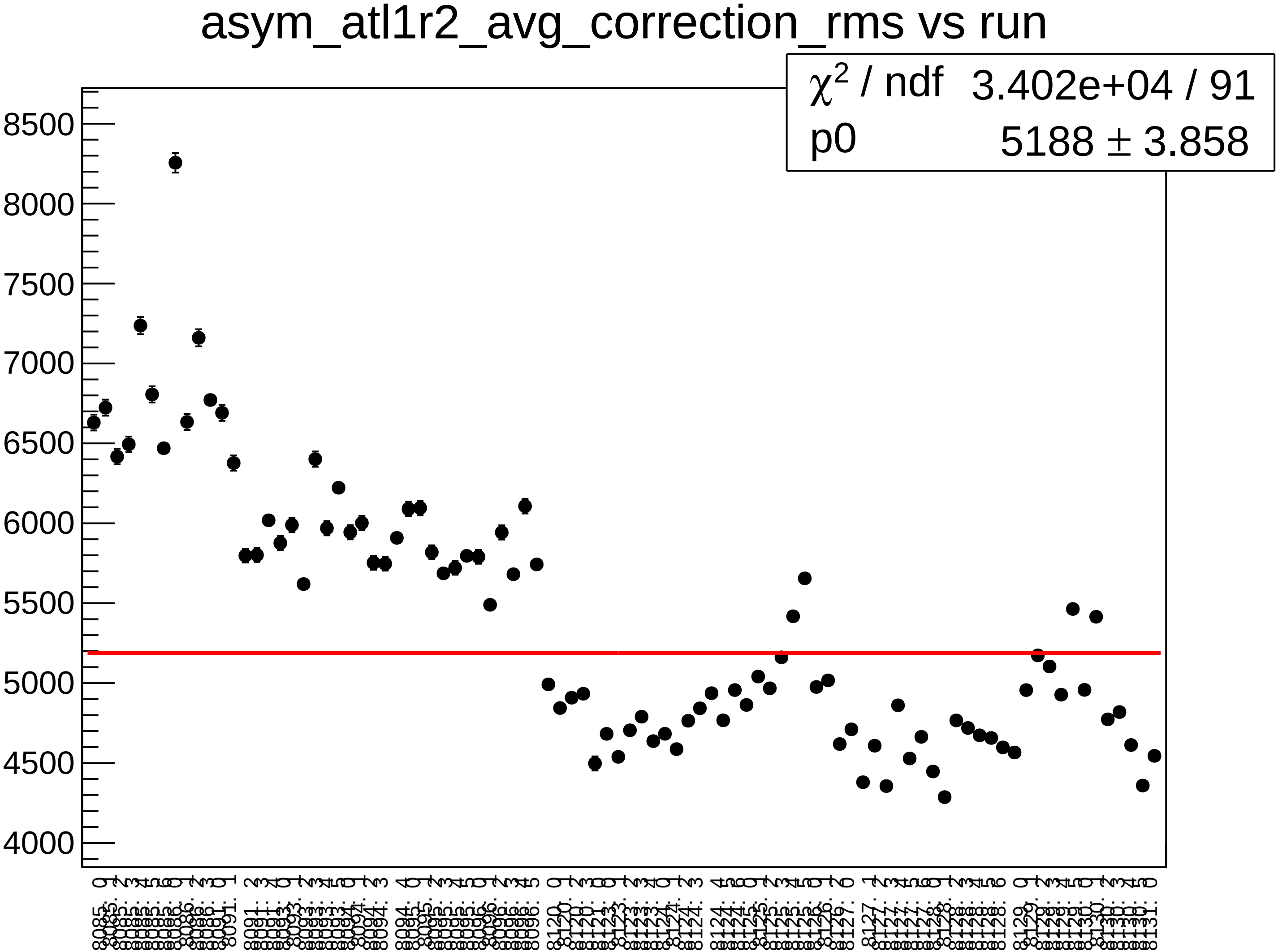

asym_at2_dd_rms vs run
χ² / ndf 6.822e+04 / 91
p0 2651 ± 1.99
50000
40000
30000
20000
10000


reg_asym_atl1r2_avg_mean vs run
χ^2 / ndf 76.1 / 91
p0 −303 ± 1756
pull
Entries 92
Mean −168.3
Std Dev 195.6
pull1D
Entries 92
Mean 0.0163
Std Dev 0.9093

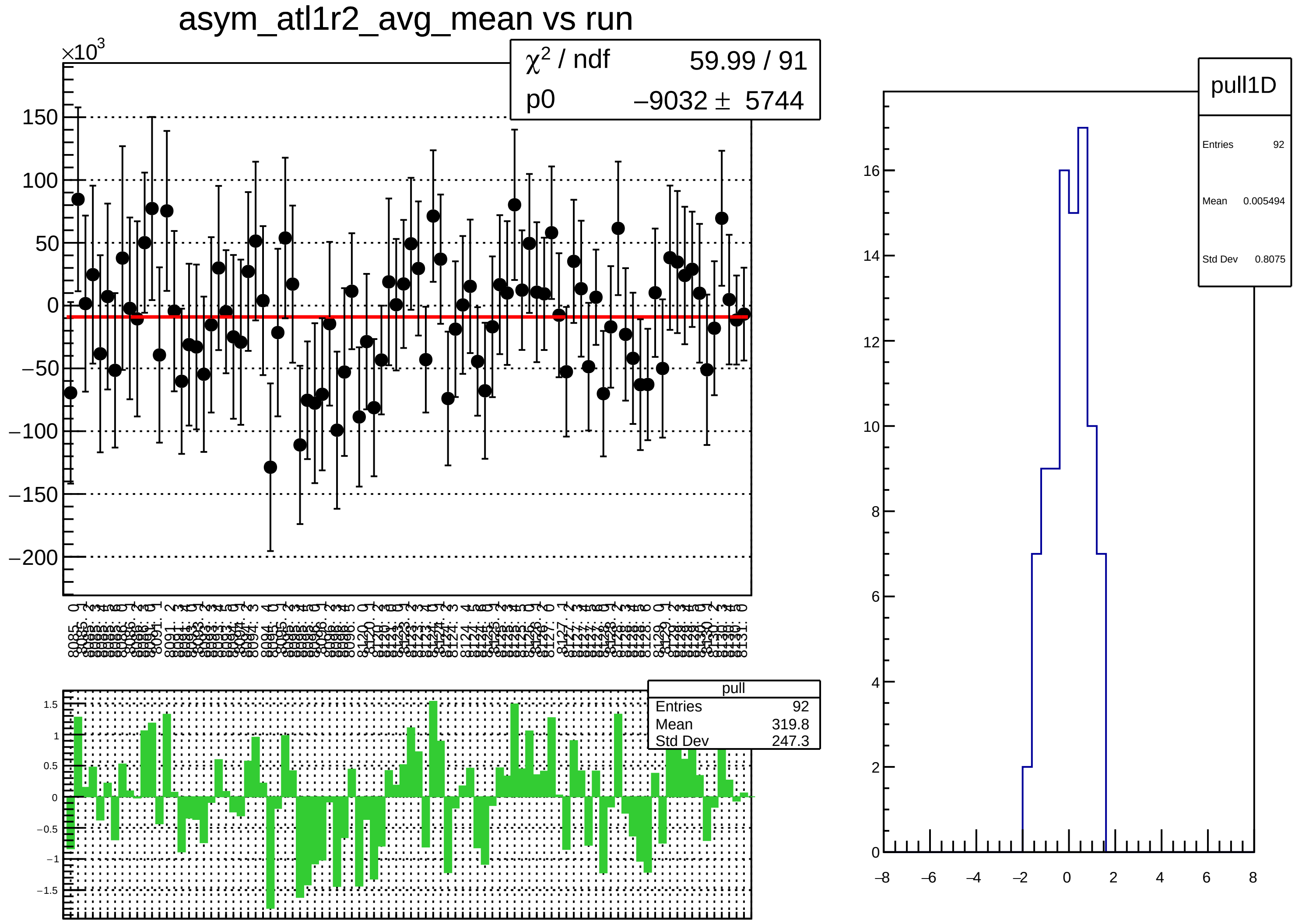


reg_asym_atl1r2_avg_rms vs run
χ2 / ndf 852.3 / 91
p0 1685 ± 1.242
1800
1750
1700
1650
1600

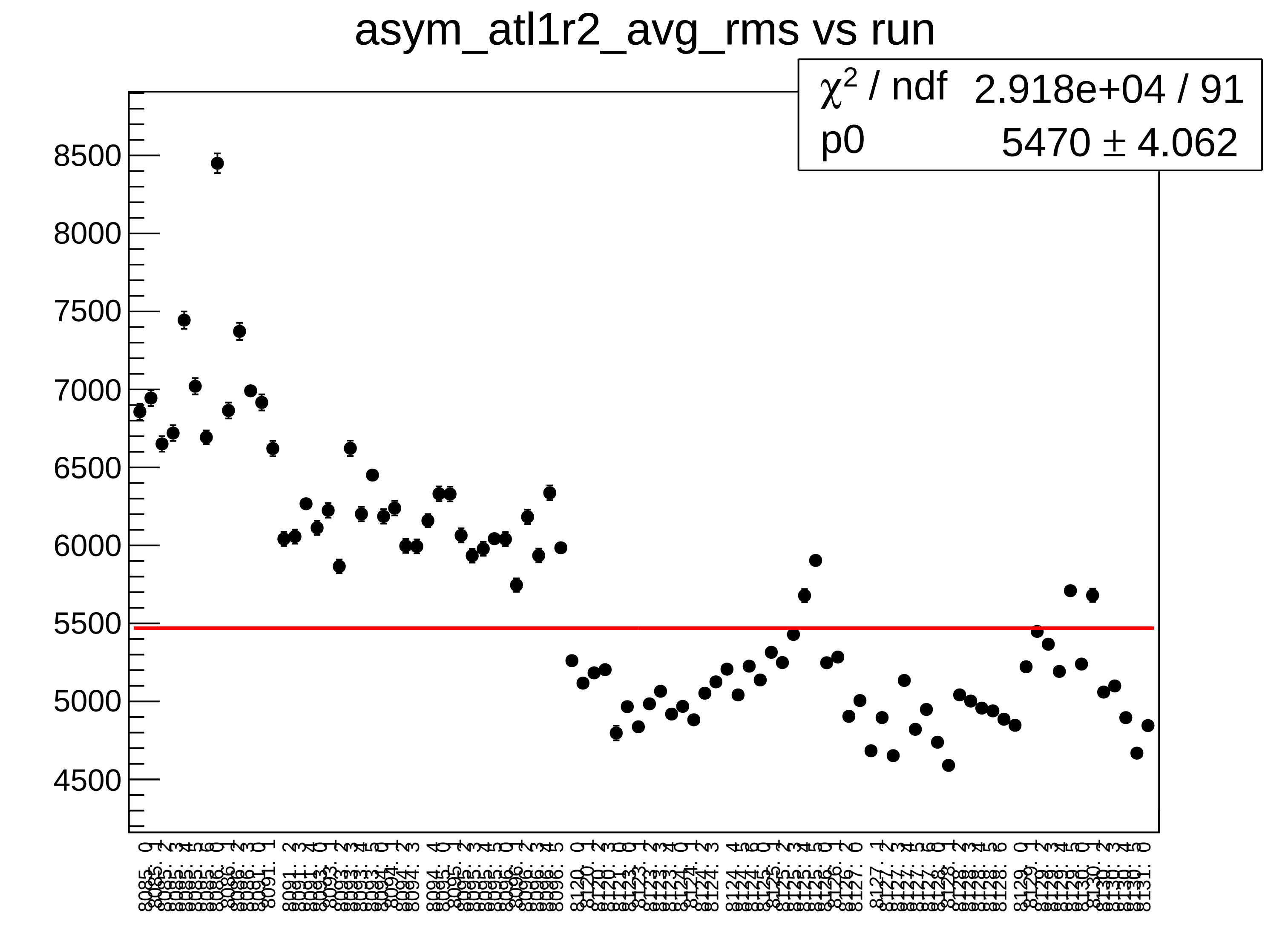

asym_atl1r2_avg_correction_mean vs run
χ2 / ndf 57.5 / 91
p0 8640 ± 5456
×10^3
pull
Entries 92
Mean 1970
Std Dev 1914
pull1D
Entries 92
Mean −0.001256
Std Dev 0.7906



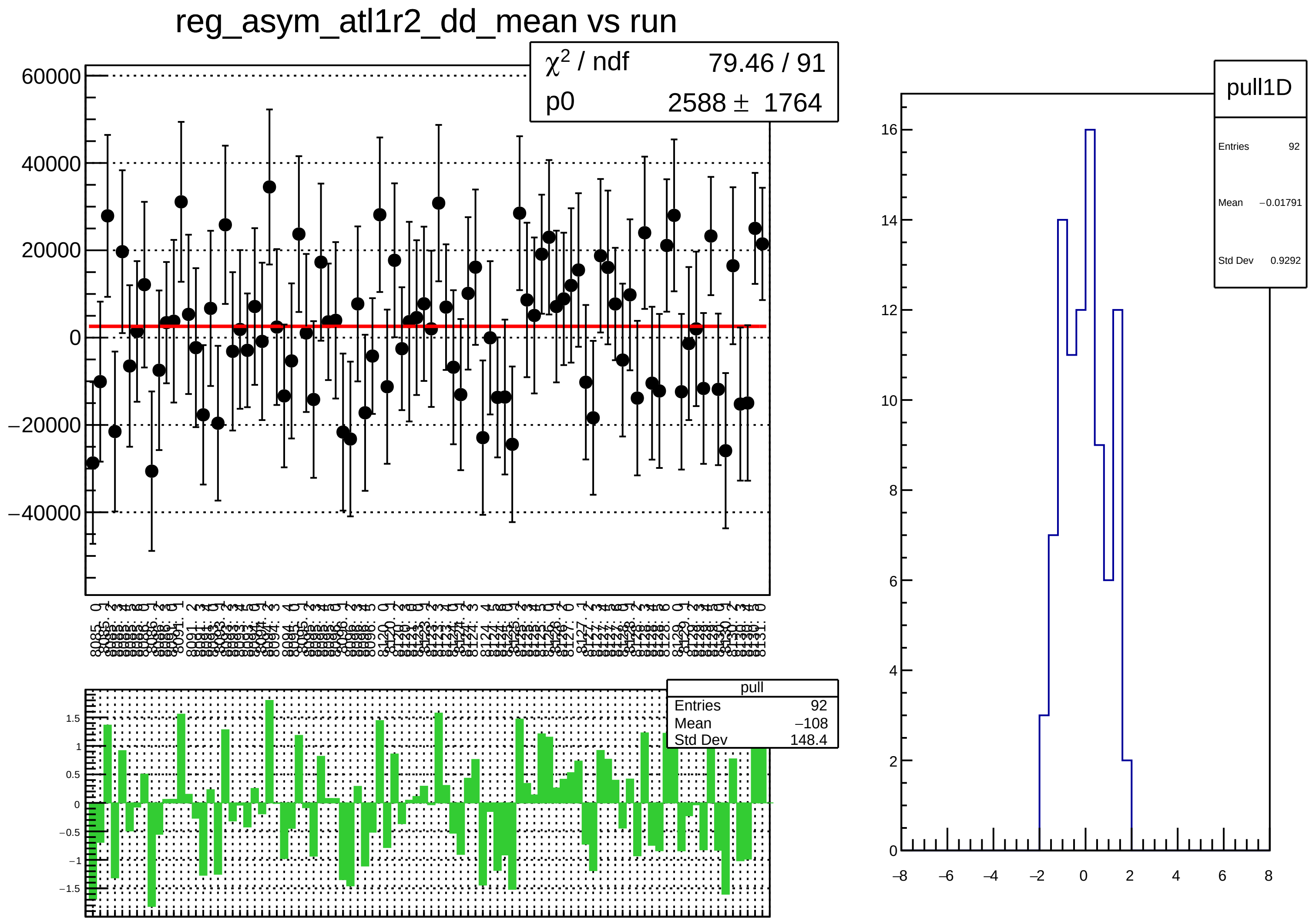
asym_atl1r2_avg_correction_rms vs run
χ^2 / ndf 3.402e+04 / 91
p0 5188 ± 3.858
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000



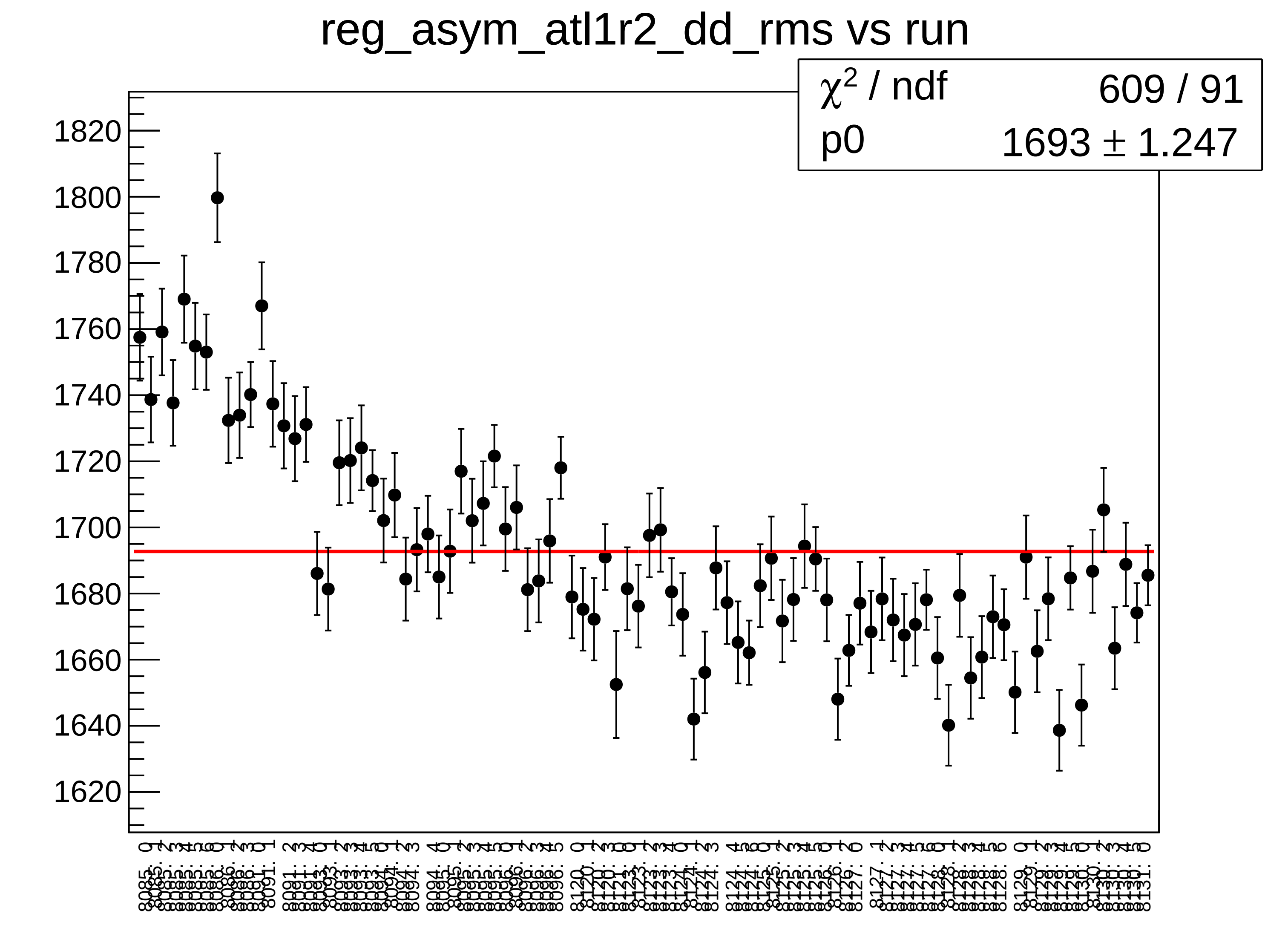
asym_atl1r2_avg_mean vs run
×10^3
χ^2 / ndf 59.99 / 91
p0 −9032 ± 5744
pull
Entries 92
Mean 319.8
Std Dev 247.3
pull1D
Entries 92
Mean 0.005494
Std Dev 0.8075

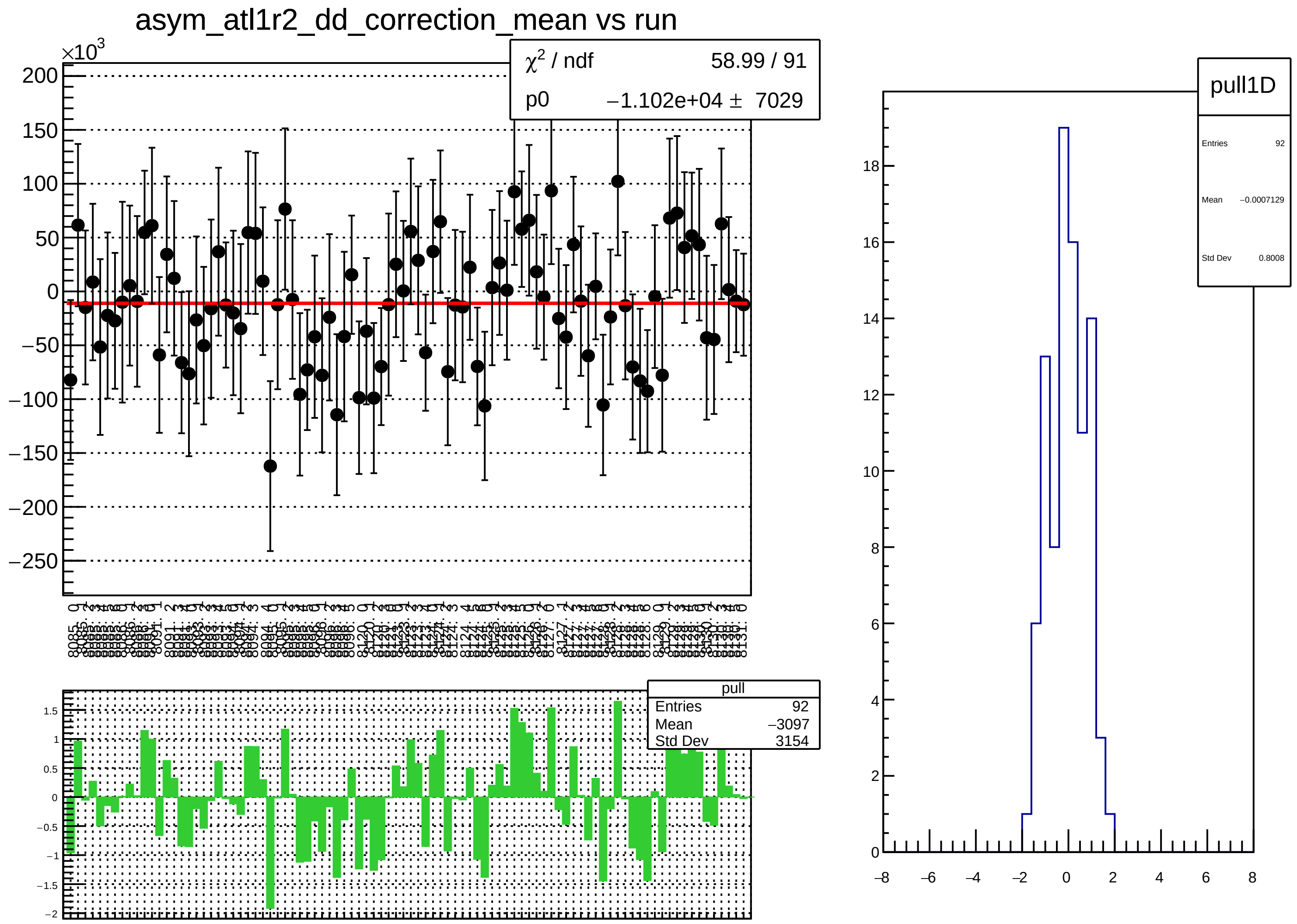


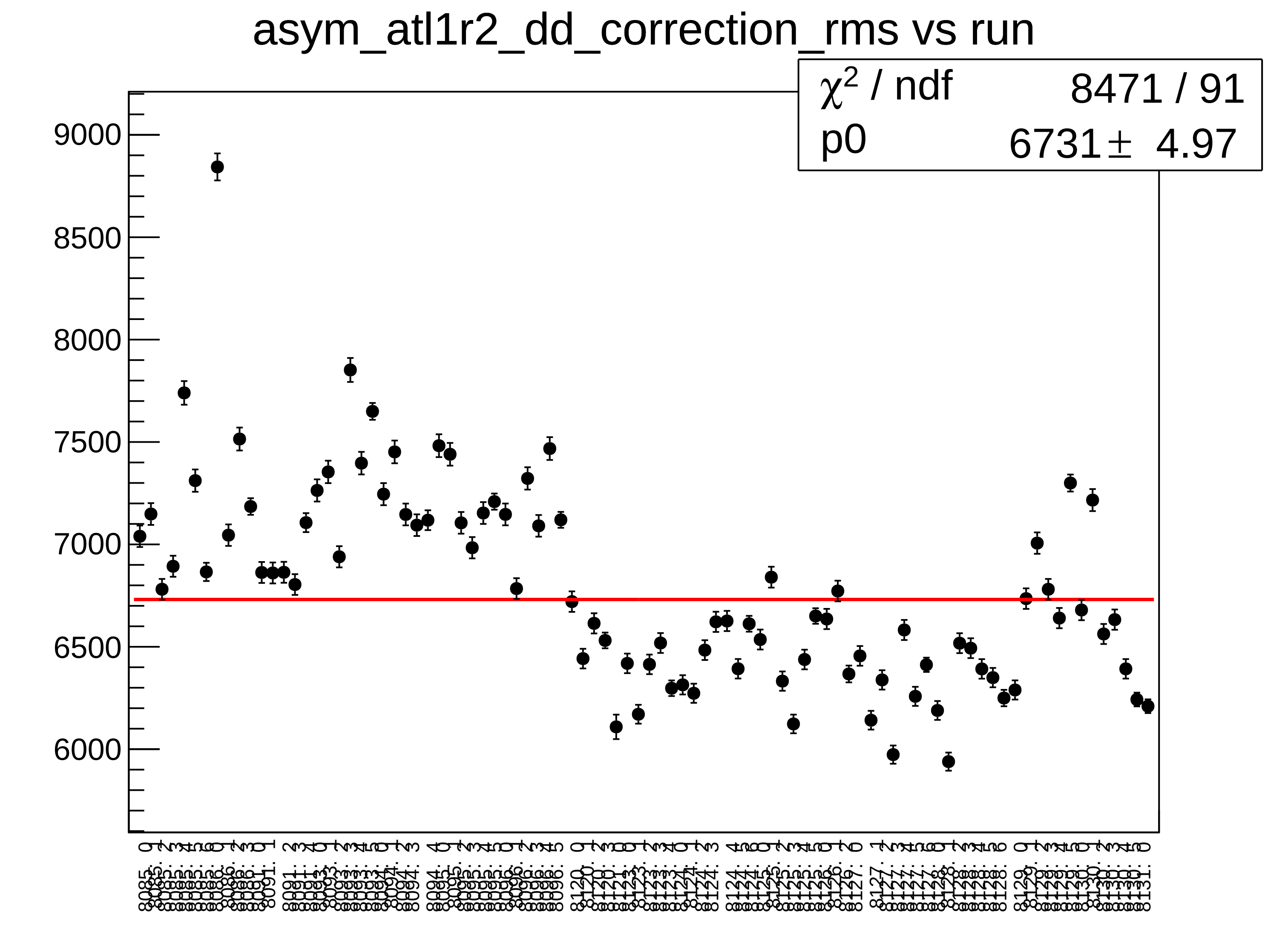
asym_atl1r2_avg_rms vs run
χ^2 / ndf 2.918e+04 / 91
p0 5470 ± 4.062
8500
8000
7500
7000
6500
6000
5500
5000
4500

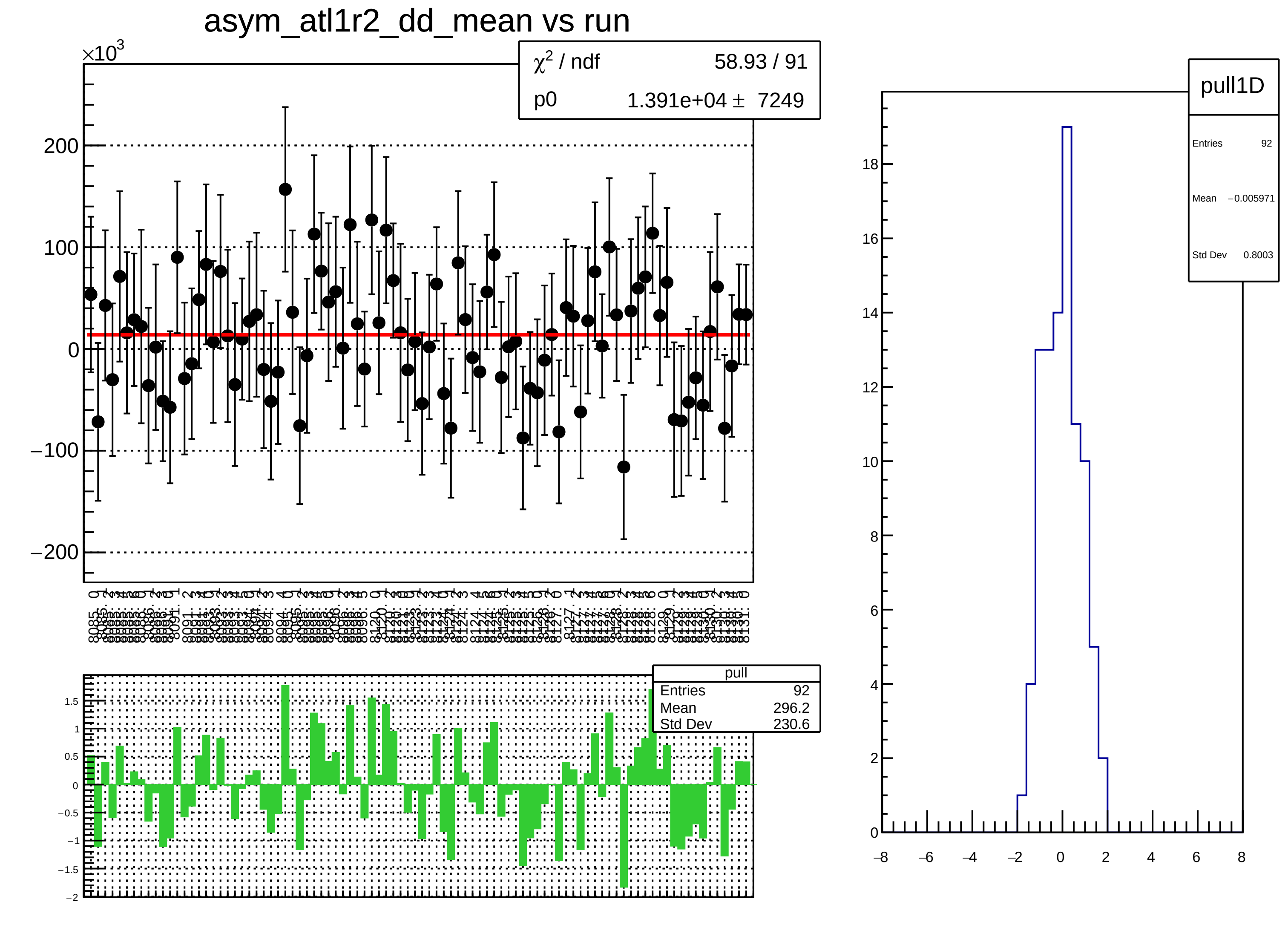


reg_asym_atl1r2_dd_mean vs run
χ^2 / ndf 79.46 / 91
p0 2588 ± 1764
pull
Entries 92
Mean −108
Std Dev 148.4
pull1D
Entries 92
Mean −0.01791
Std Dev 0.9292

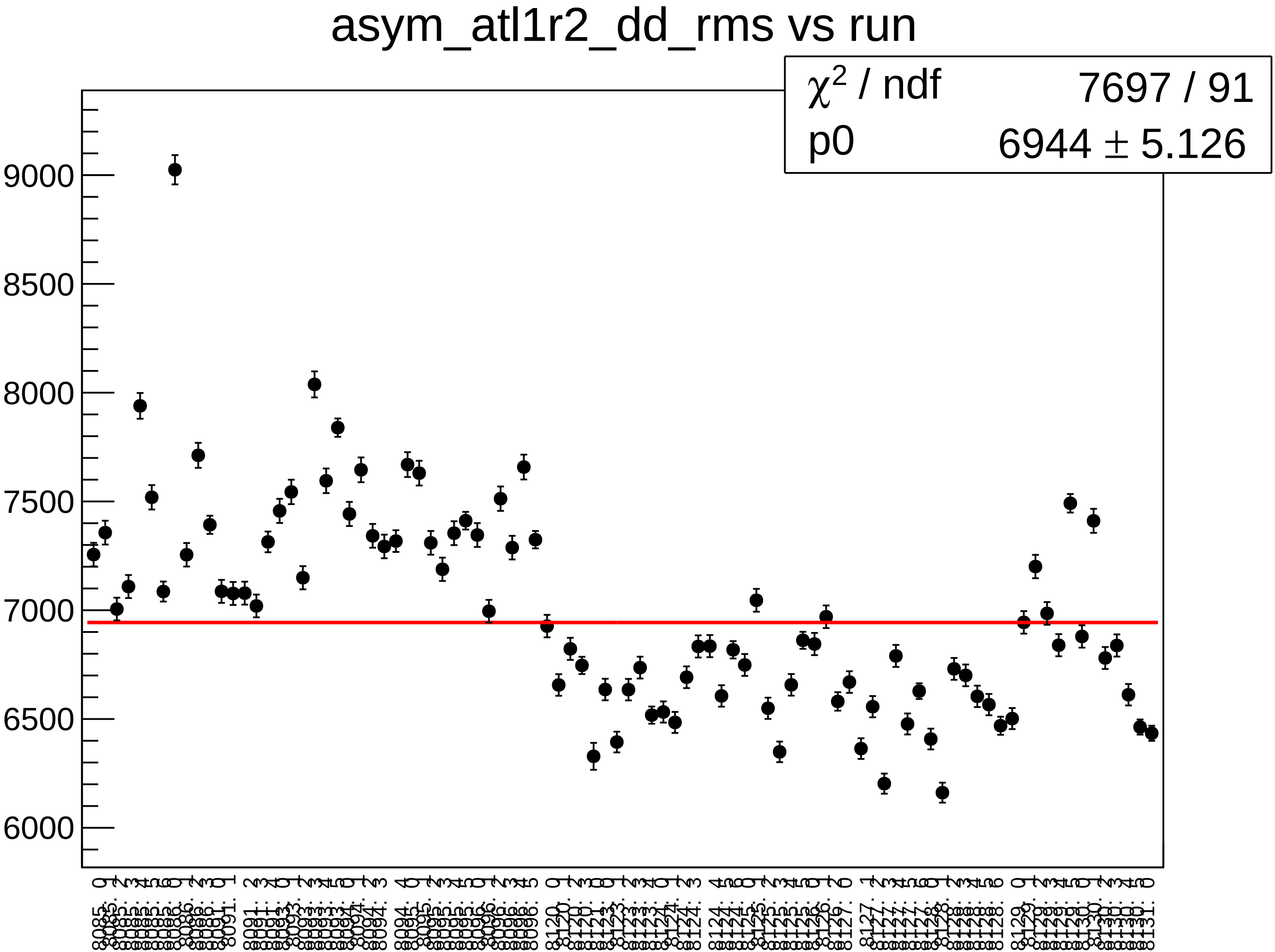

reg_asym_atl1r2_dd_rms vs run
χ2 / ndf 609 / 91
p0 1693 ± 1.247
1620
1640
1660
1680
1700
1720
1740
1760
1780
1800
1820


asym_atl1r2_dd_correction_mean vs run
×10^3
χ^2 / ndf 58.99 / 91
p0 −1.102e+04 ± 7029
200
150
100
50
0
−50
−100
−150
−200
−250
pull
Entries 92
Mean −3097
Std Dev 3154
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.0007129
Std Dev 0.8008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

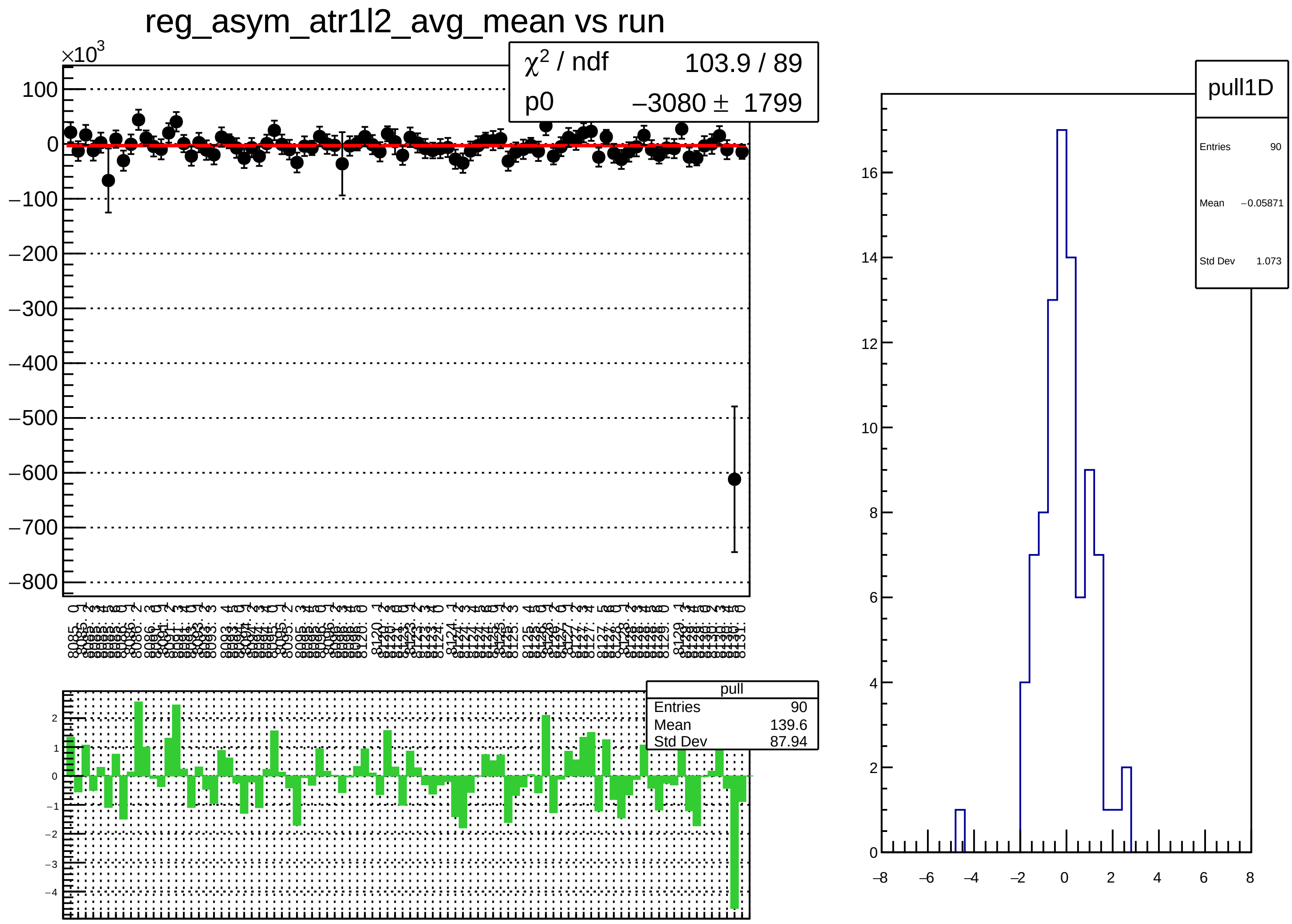

asym_atl1r2_dd_correction_rms vs run
χ2 / ndf 8471 / 91
p0 6731 ± 4.97
9000
8500
8000
7500
7000
6500
6000



asym_atl1r2_dd_mean vs run
$\times10^3$
χ^2 / ndf 58.93 / 91
p0 1.391e+04 ± 7249
pull
Entries 92
Mean 296.2
Std Dev 230.6
pull1D
Entries 92
Mean −0.005971
Std Dev 0.8003

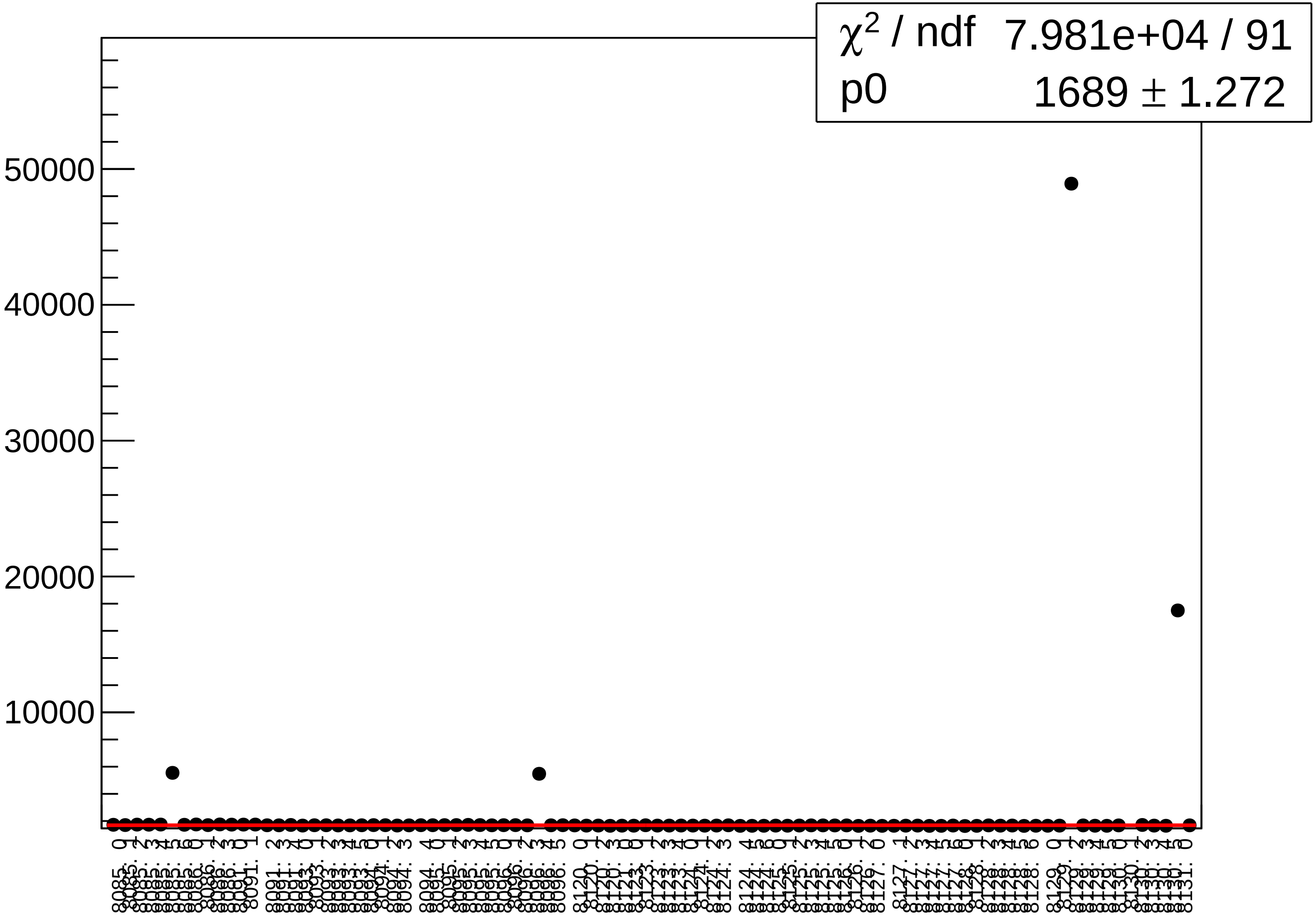


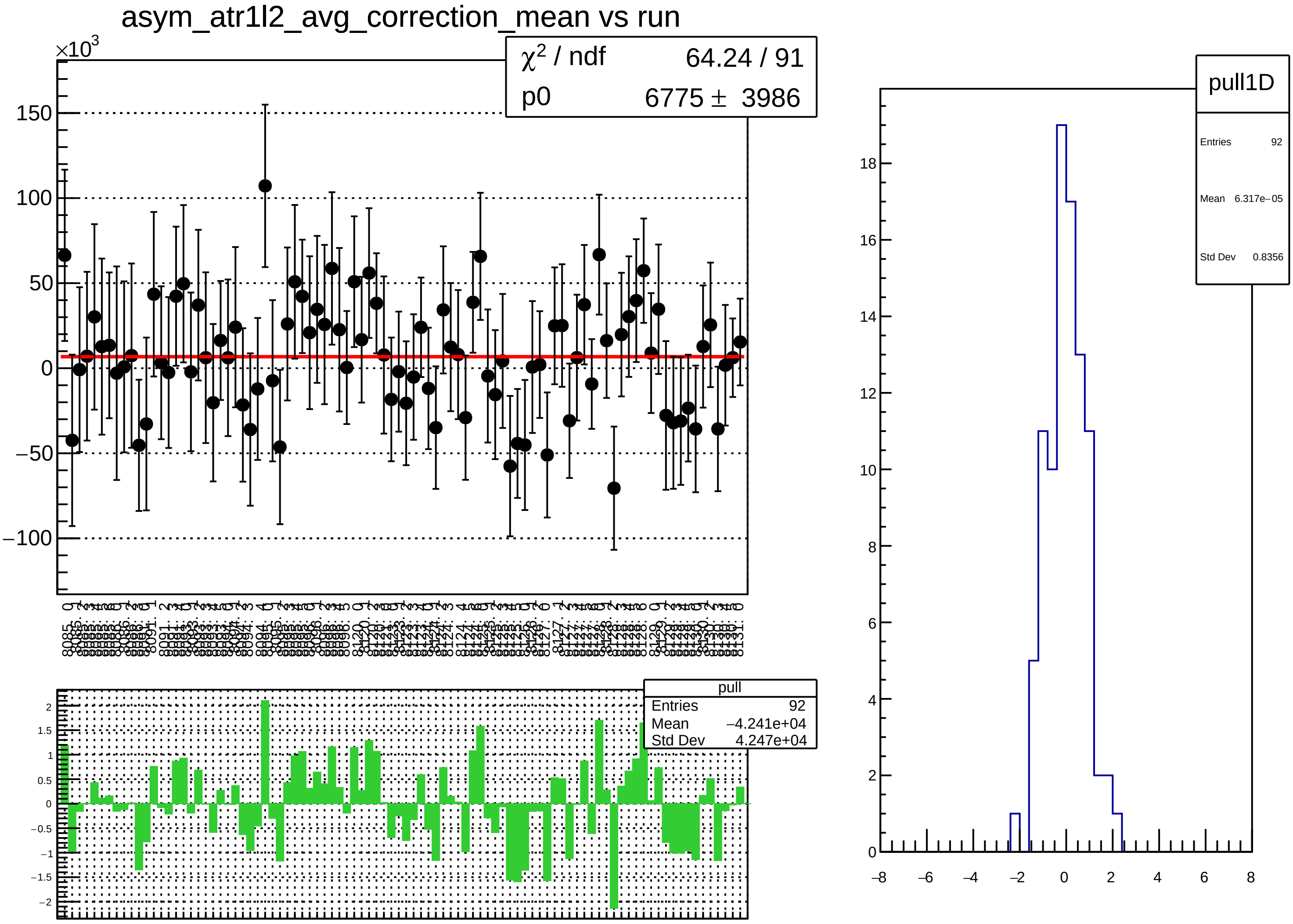
asym_atl1r2_dd_rms vs run
χ2 / ndf 7697 / 91
p0 6944 ± 5.126
9000
8500
8000
7500
7000
6500
6000



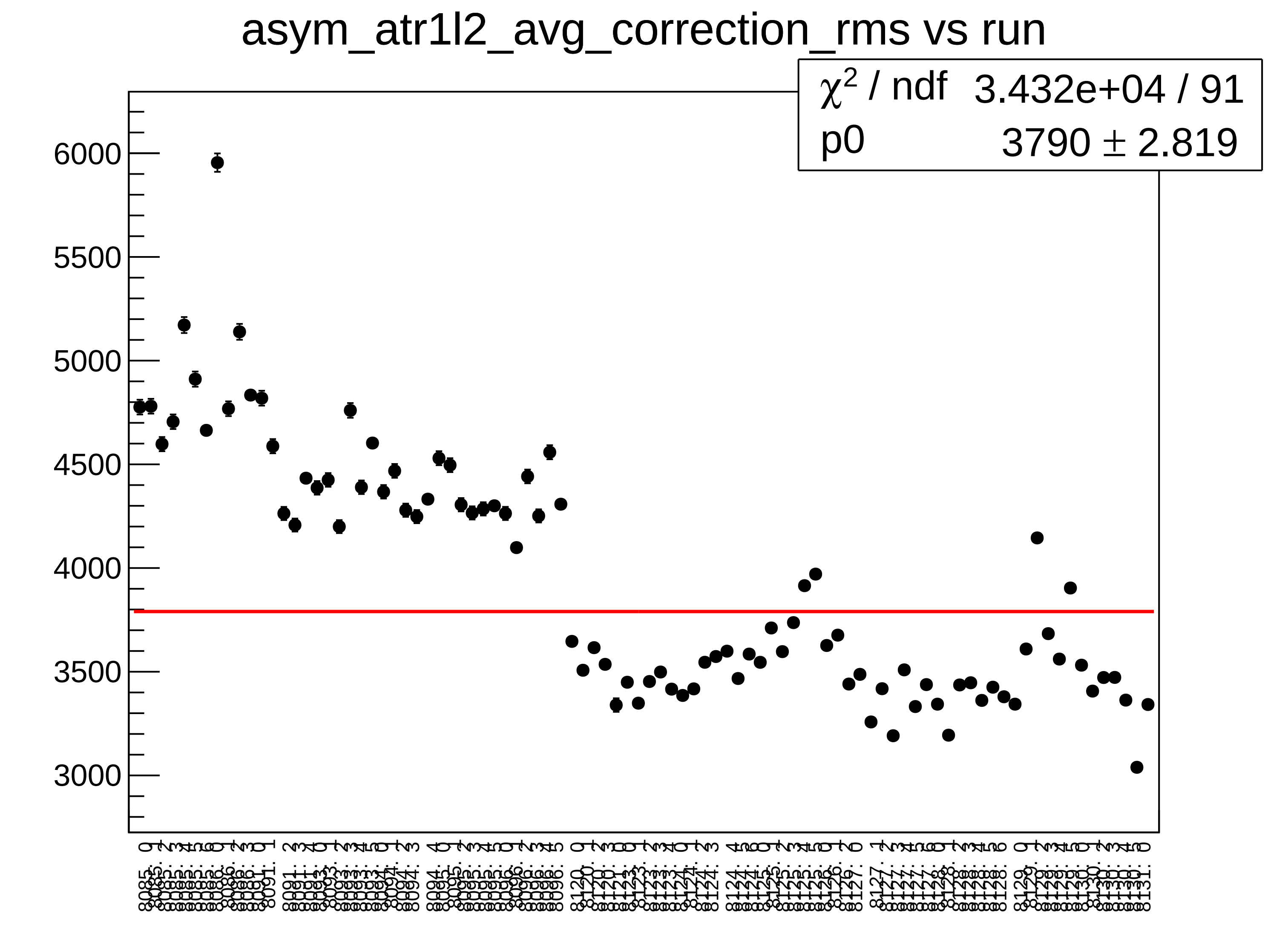
reg_asym_atr1l2_avg_mean vs run
χ^2 / ndf 103.9 / 89
p0 −3080 ± 1799
×10^3
pull
Entries 90
Mean 139.6
Std Dev 87.94
pull1D
Entries 90
Mean −0.05871
Std Dev 1.073

reg_asym_atr1l2_avg_rms vs run

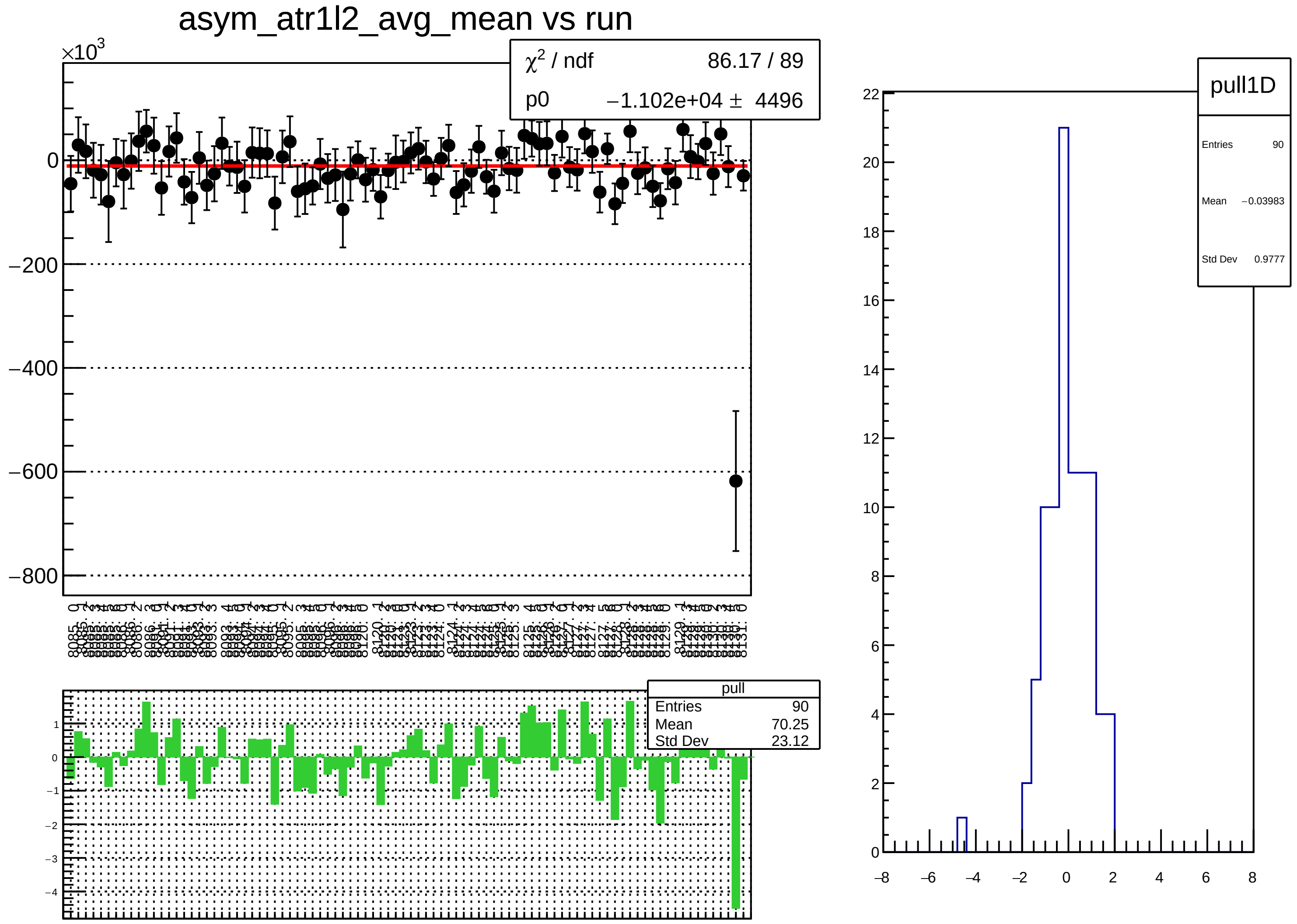




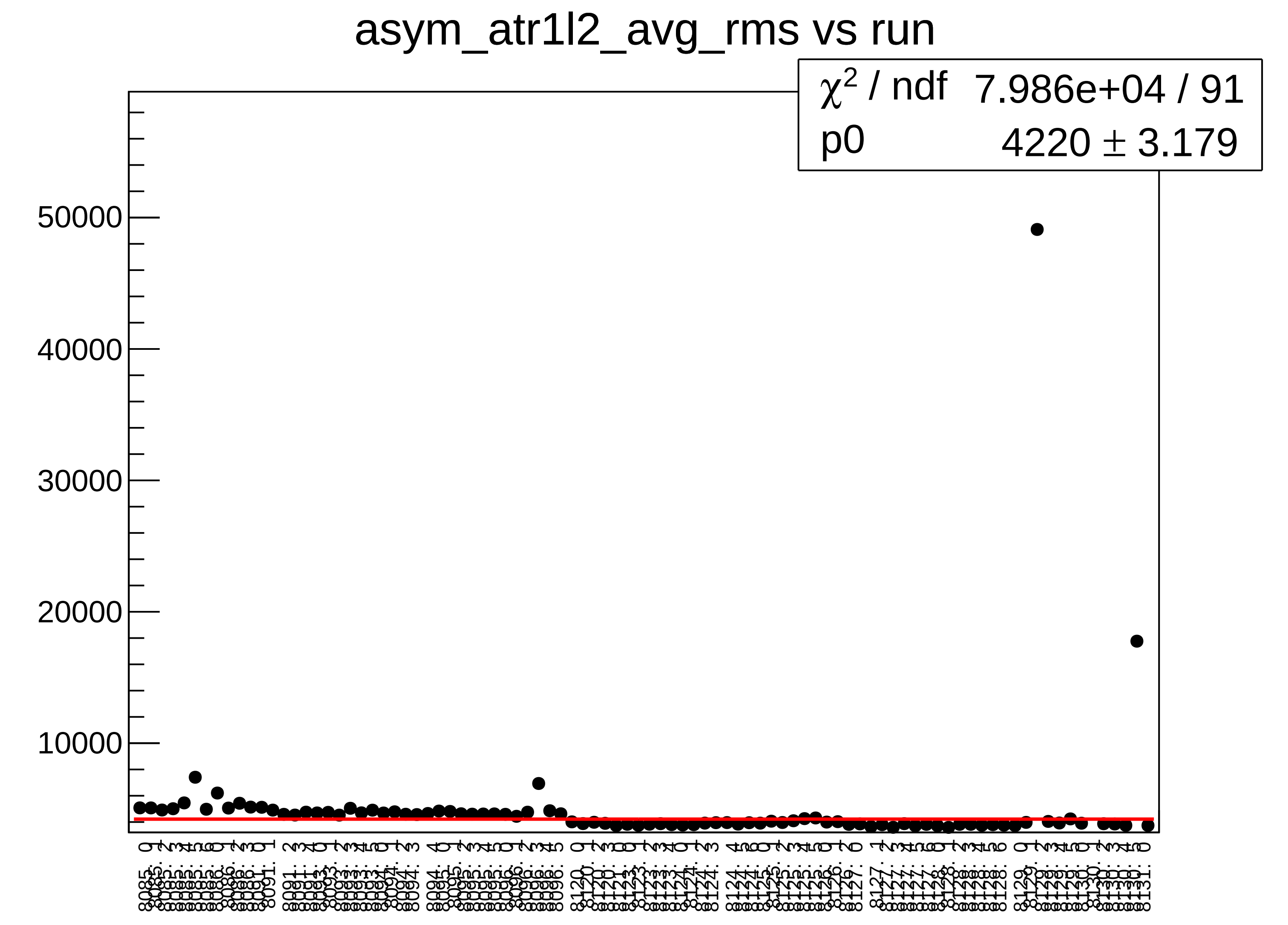
asym_atr1l2_avg_correction_mean vs run
×10^3
χ2 / ndf 64.24 / 91
p0 6775 ± 3986
150
100
50
0
−50
−100
pull
Entries 92
Mean −4.241e+04
Std Dev 4.247e+04
pull1D
Entries 92
Mean 6.317e−05
Std Dev 0.8356

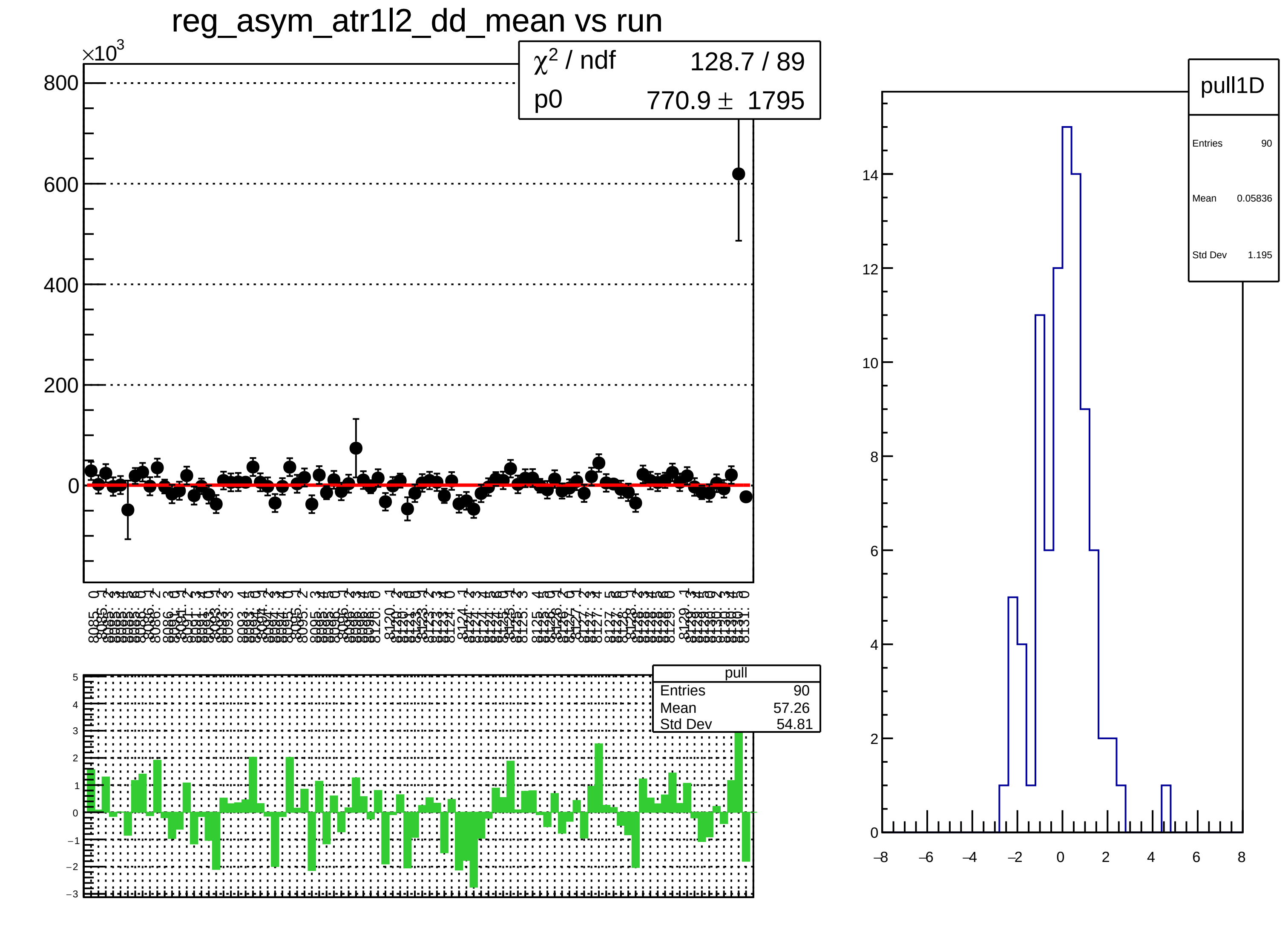


asym_atr1l2_avg_correction_rms vs run
χ2 / ndf 3.432e+04 / 91
p0 3790 ± 2.819
6000
5500
5000
4500
4000
3500
3000

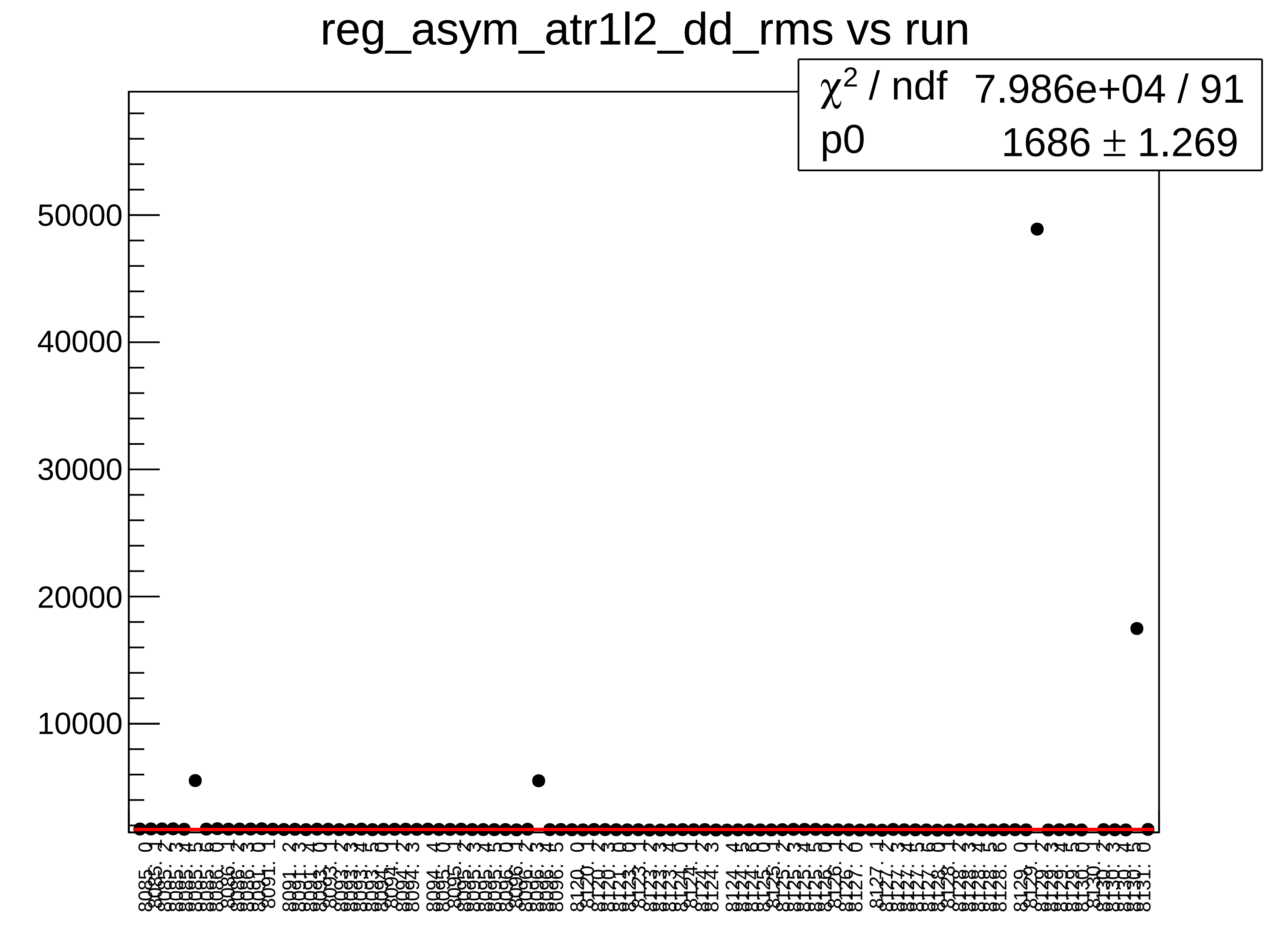


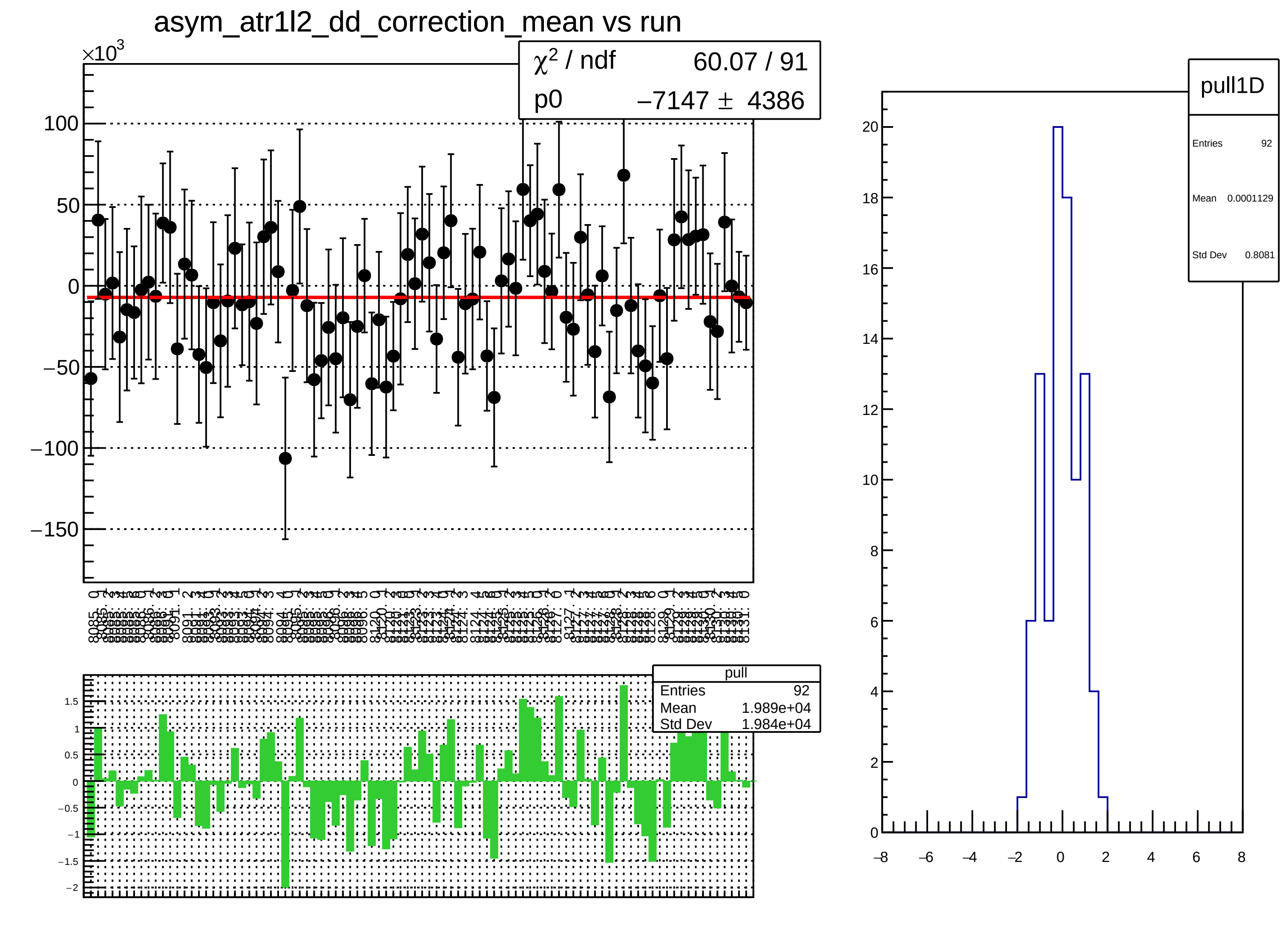
asym_atr1l2_avg_mean vs run
χ2 / ndf 86.17 / 89
p0 −1.102e+04 ± 4496
×10^3
pull
Entries 90
Mean 70.25
Std Dev 23.12
pull1D
Entries 90
Mean −0.03983
Std Dev 0.9777


asym_atr1l2_avg_rms vs run
χ^2 / ndf 7.986e+04 / 91
p0 4220 ± 3.179
50000
40000
30000
20000
10000

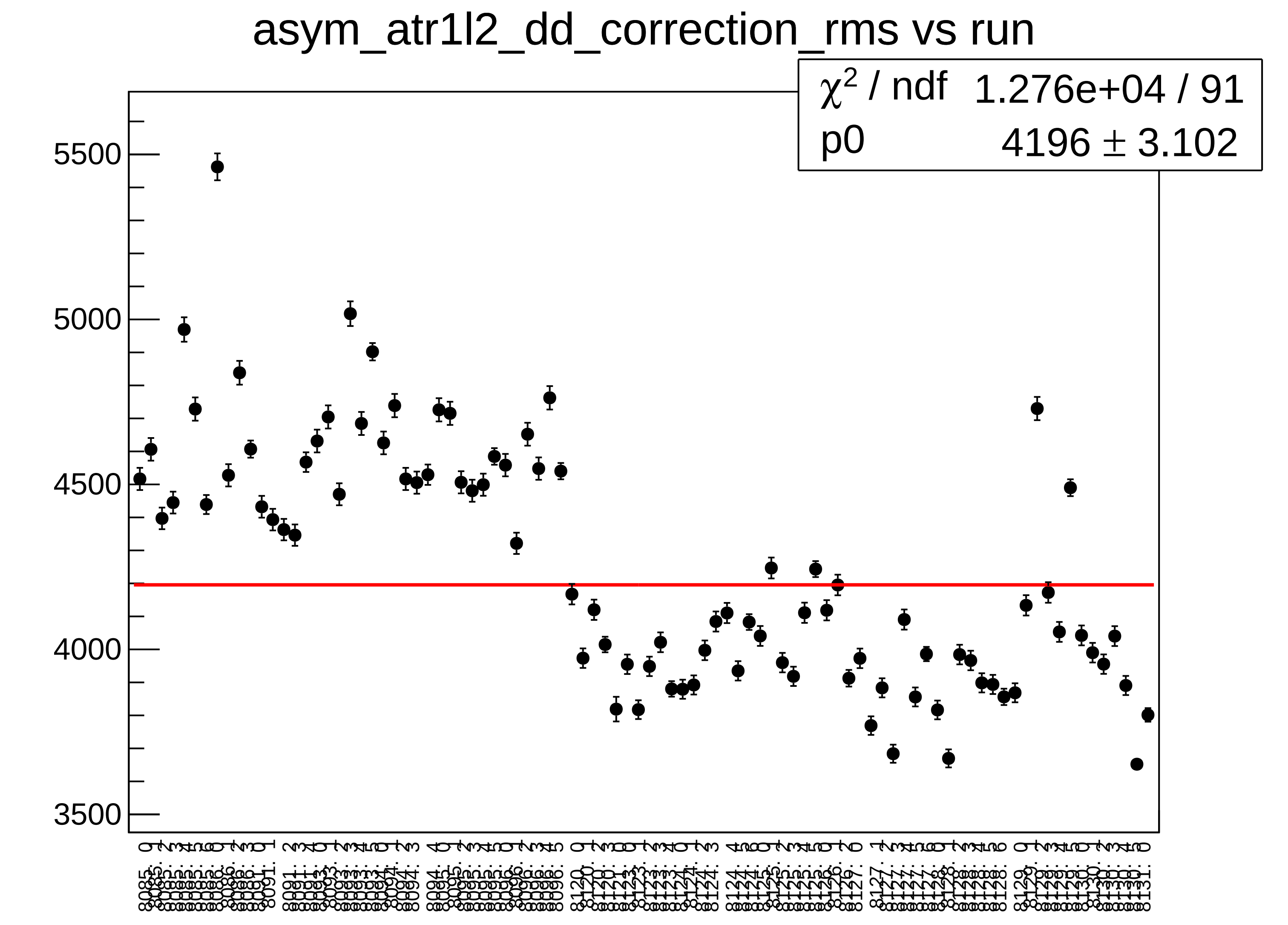


reg_asym_atr1l2_dd_mean vs run
×10^3
χ^2 / ndf 128.7 / 89
p0 770.9 ± 1795
800
600
400
200
0
pull
Entries 90
Mean 57.26
Std Dev 54.81
5
4
3
2
1
0
−1
−2
−3
pull1D
Entries 90
Mean 0.05836
Std Dev 1.195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

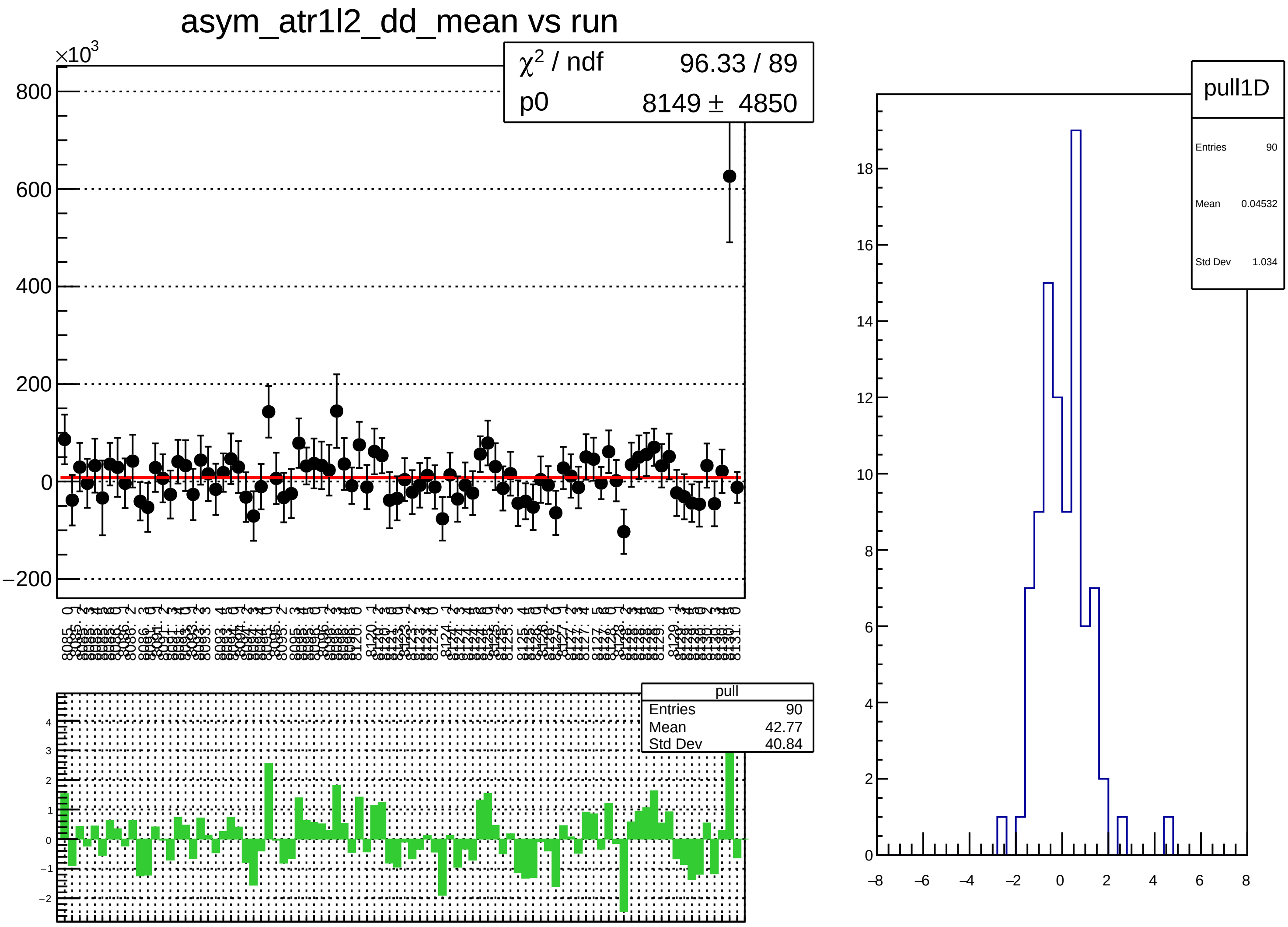

reg_asym_atr1l2_dd_rms vs run
χ2 / ndf 7.986e+04 / 91
p0 1686 ± 1.269
50000
40000
30000
20000
10000



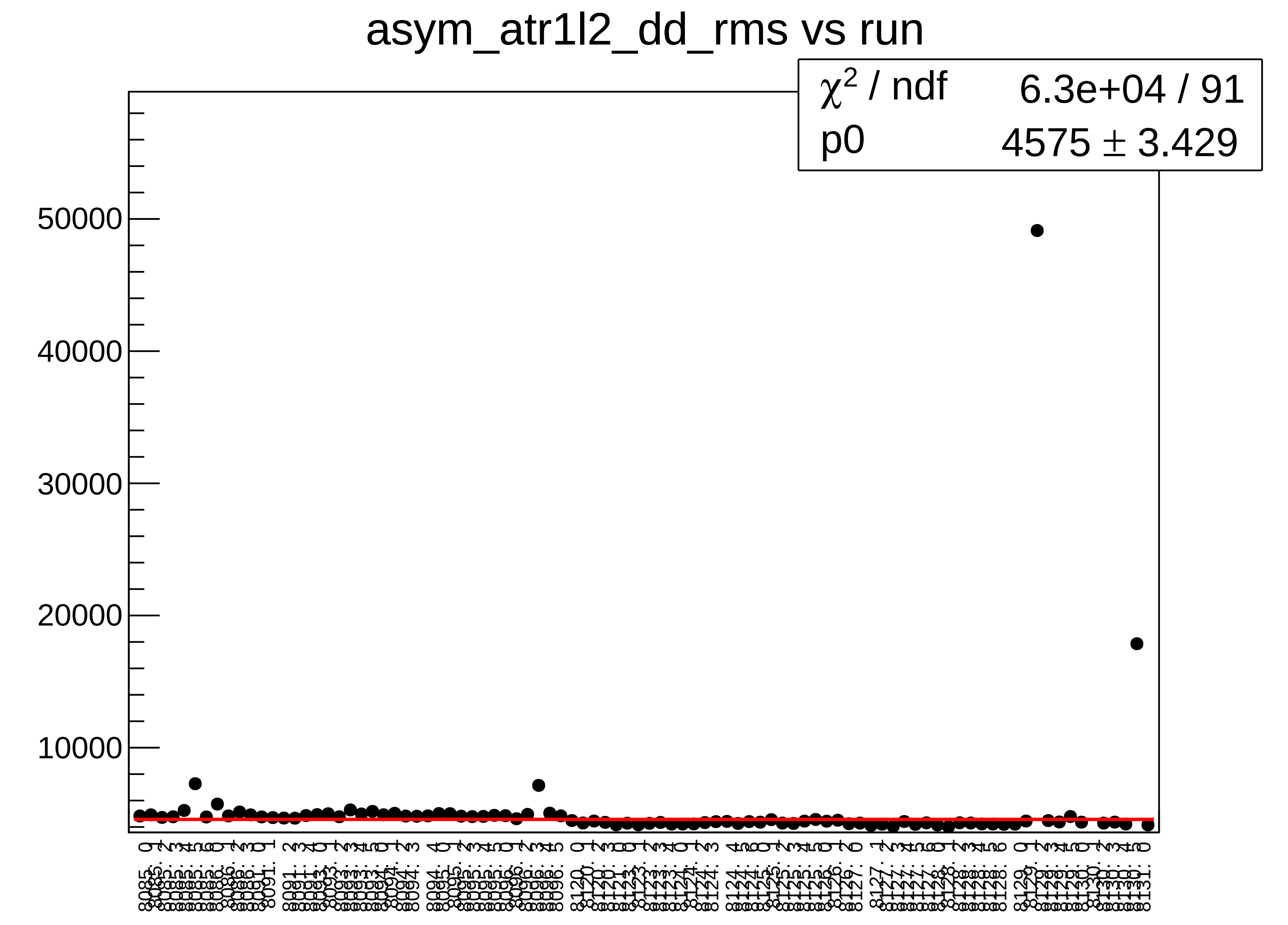
asym_atr1l2_dd_correction_mean vs run
×10^3
χ^2 / ndf 60.07 / 91
p0 −7147 ± 4386
pull
Entries 92
Mean 1.989e+04
Std Dev 1.984e+04
pull1D
Entries 92
Mean 0.0001129
Std Dev 0.8081



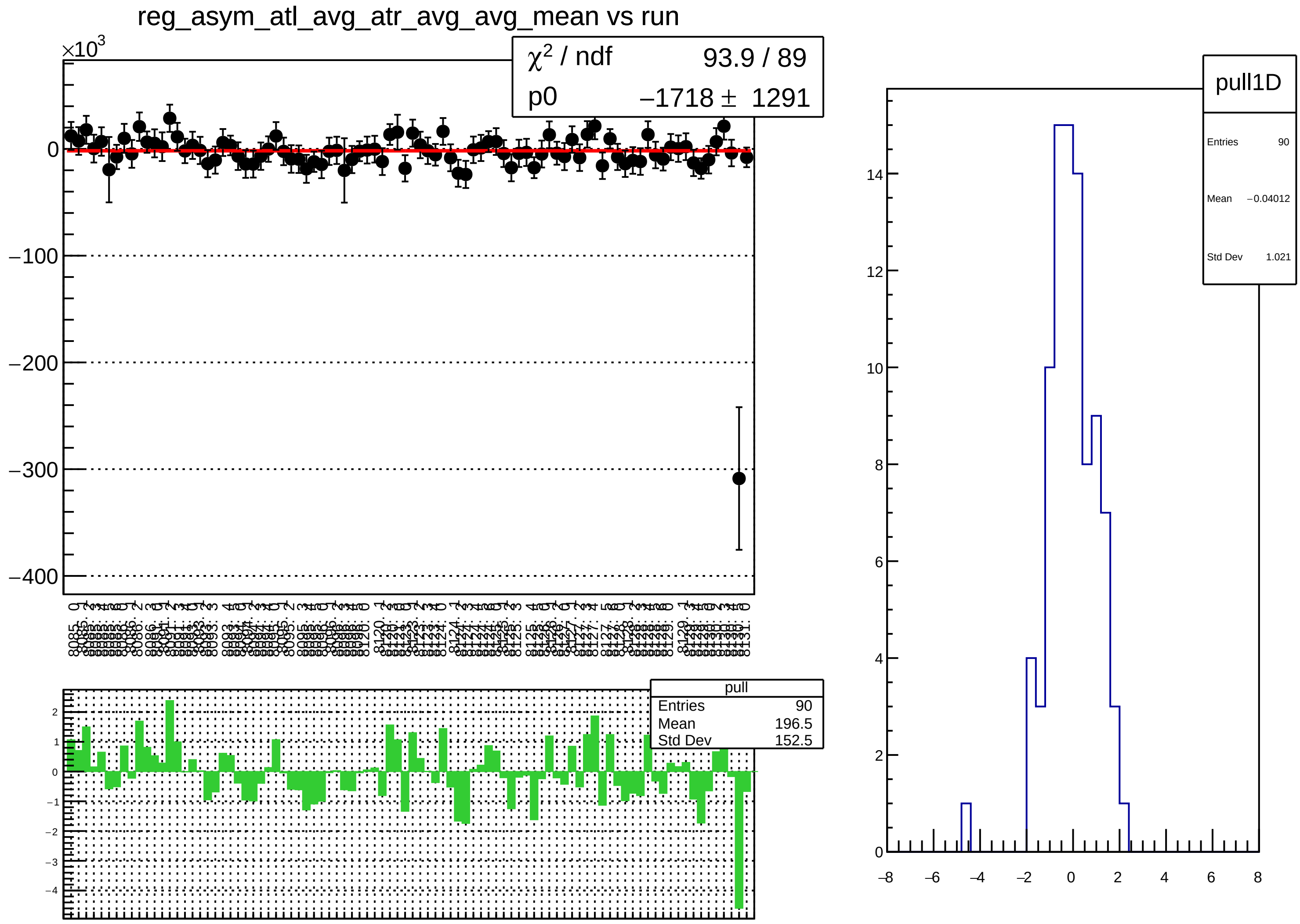
asym_atr1l2_dd_correction_rms vs run
χ^2 / ndf 1.276e+04 / 91
p0 4196 ± 3.102
5500
5000
4500
4000
3500



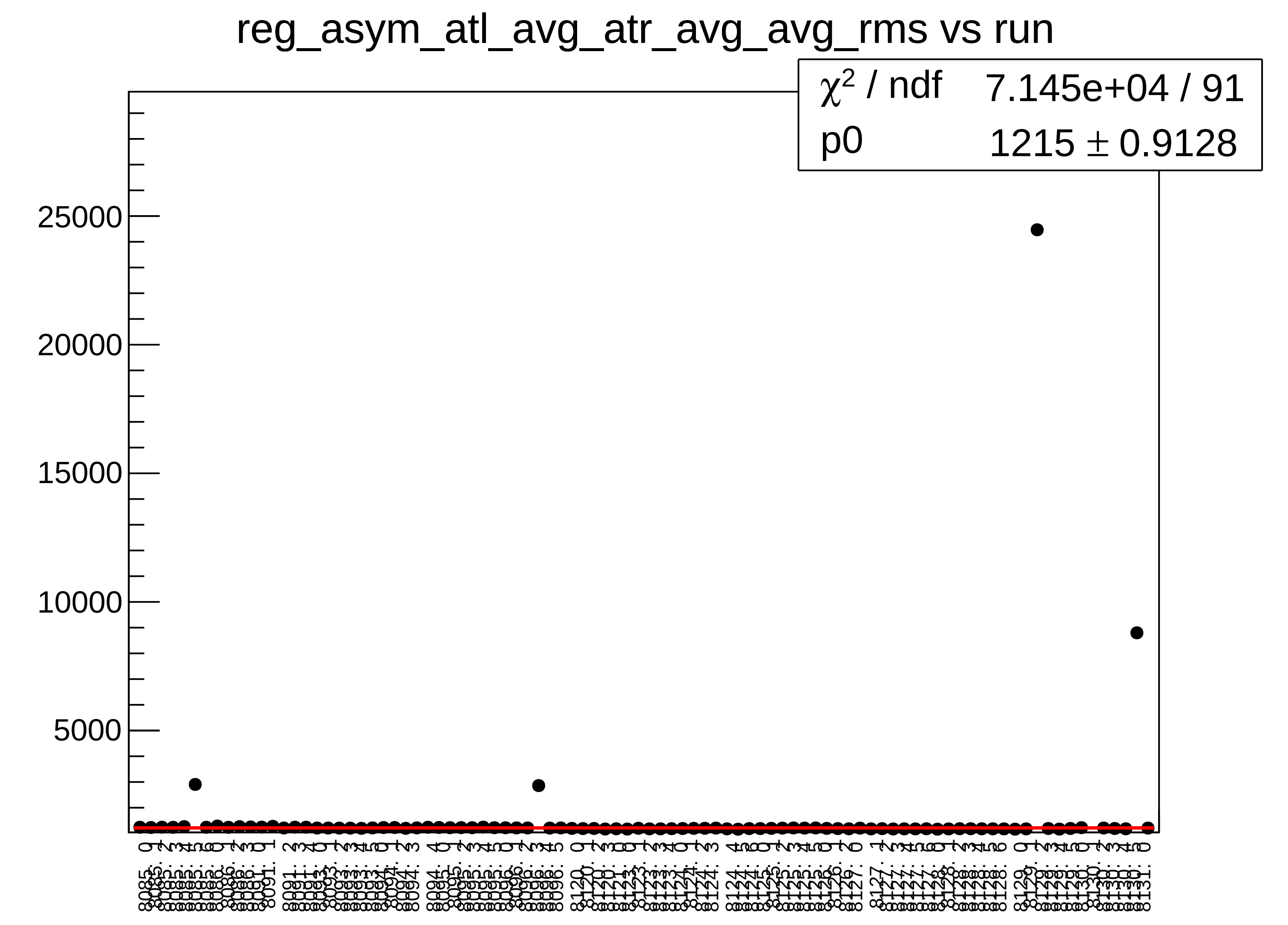
asym_atr1l2_dd_mean vs run
×10^3
χ2 / ndf 96.33 / 89
p0 8149 ± 4850
800
600
400
200
0
−200
pull
Entries 90
Mean 42.77
Std Dev 40.84
pull1D
Entries 90
Mean 0.04532
Std Dev 1.034



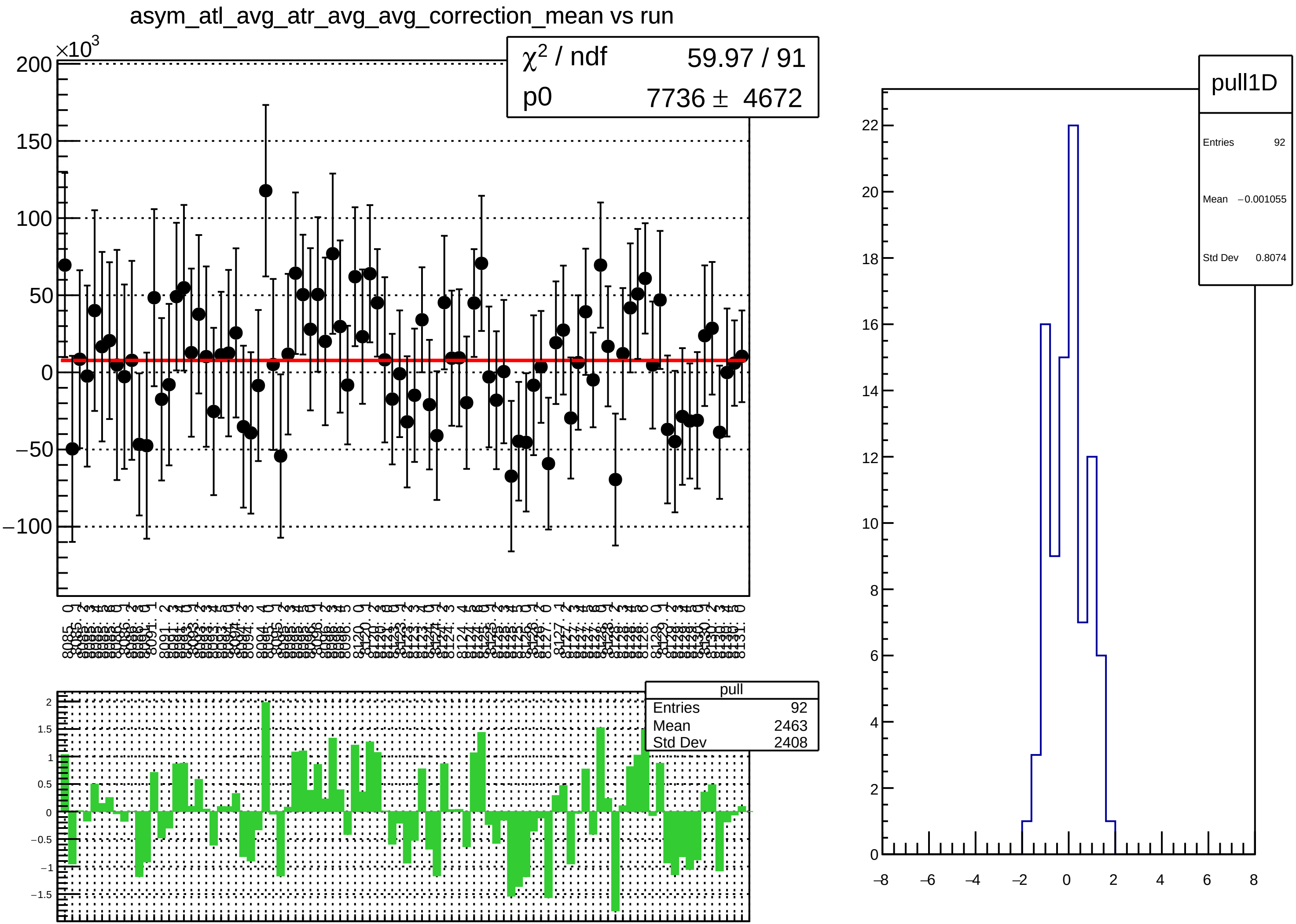
asym_atr1l2_dd_rms vs run
χ^2 / ndf 6.3e+04 / 91
p0 4575 ± 3.429
50000
40000
30000
20000
10000

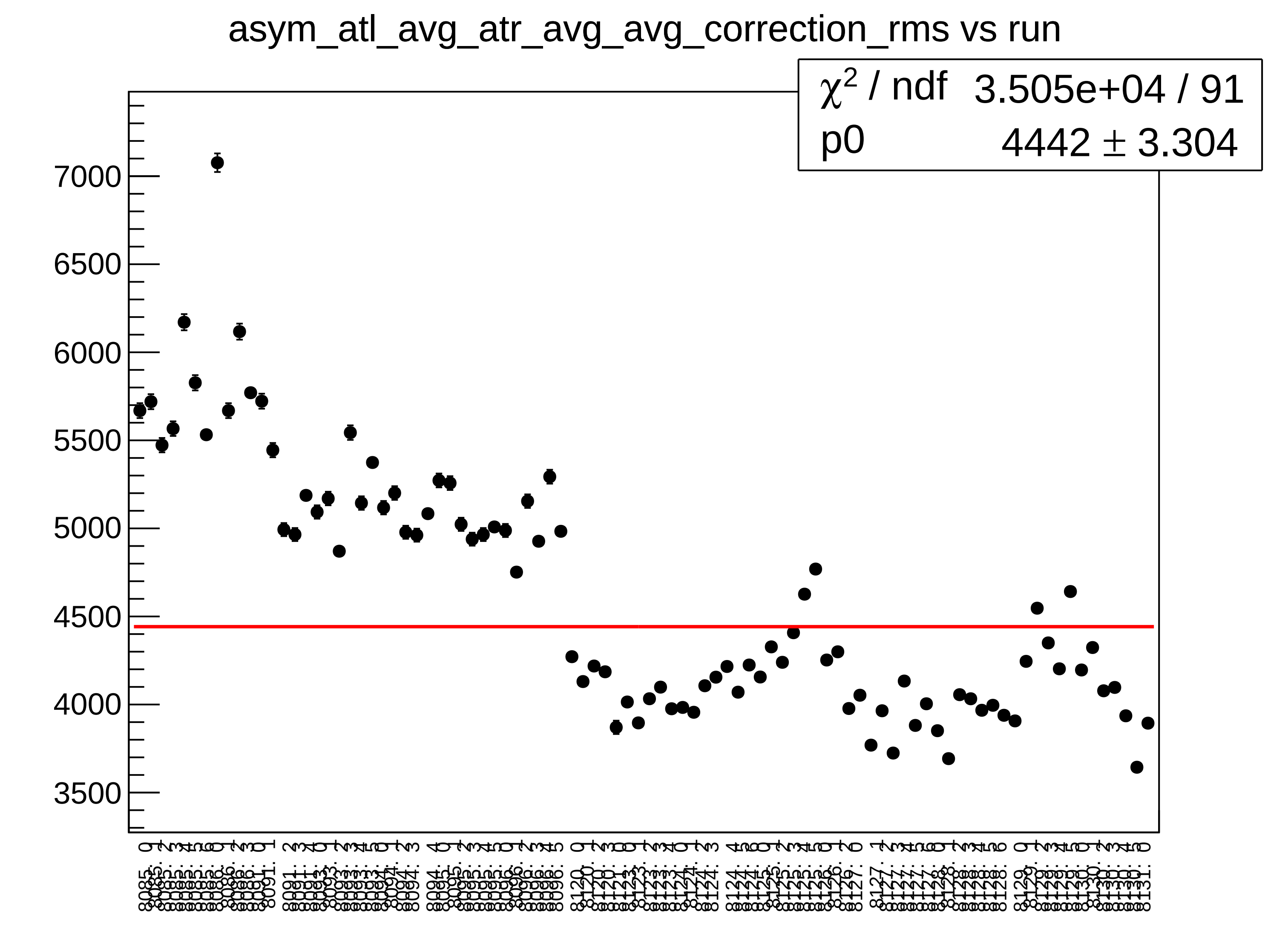


reg_asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 93.9 / 89
p0 −1718 ± 1291
0
−100
−200
−300
−400
pull
Entries 90
Mean 196.5
Std Dev 152.5
pull1D
Entries 90
Mean −0.04012
Std Dev 1.021

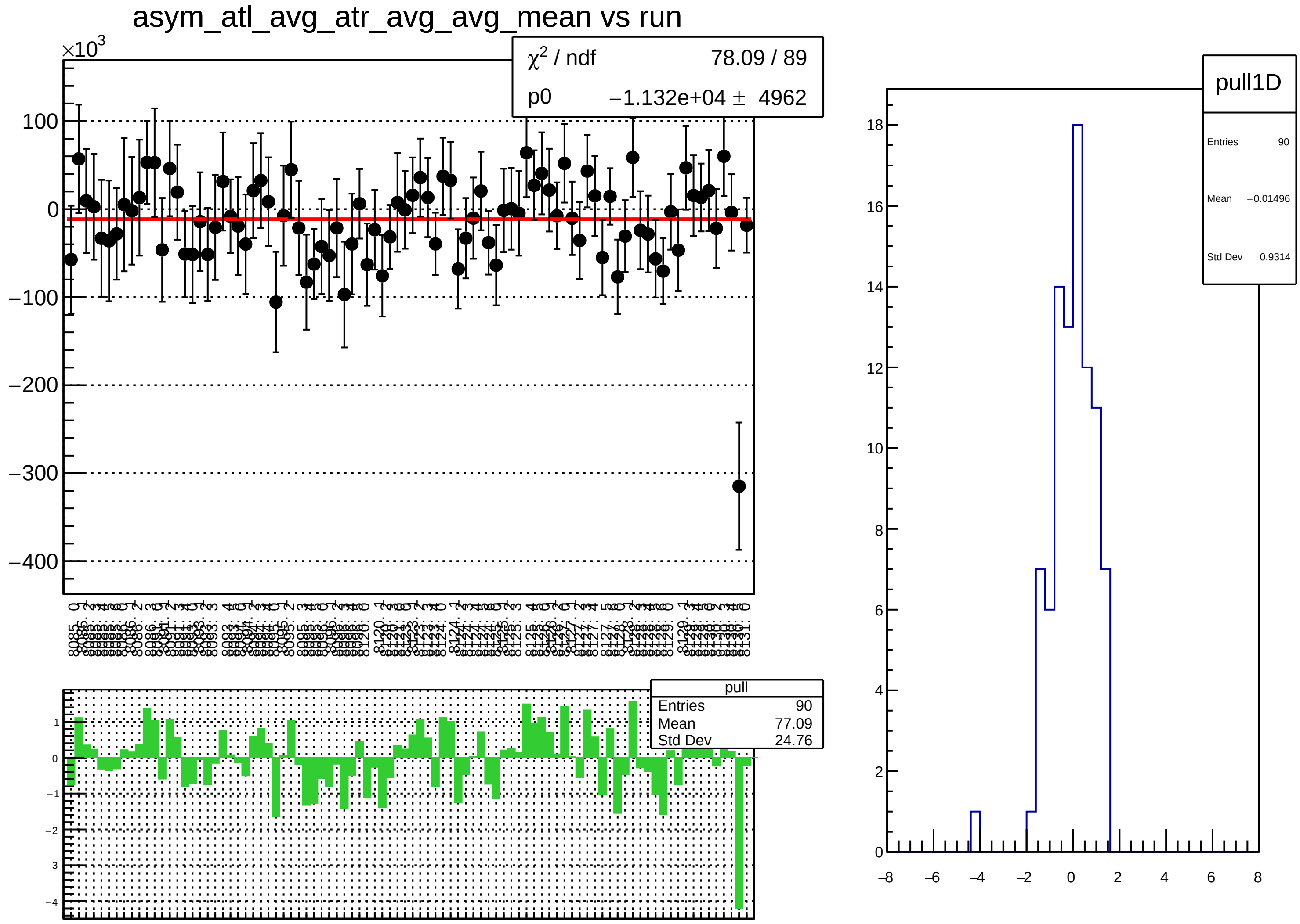


reg_asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 7.145e+04 / 91
p0 1215 ± 0.9128
25000
20000
15000
10000
5000

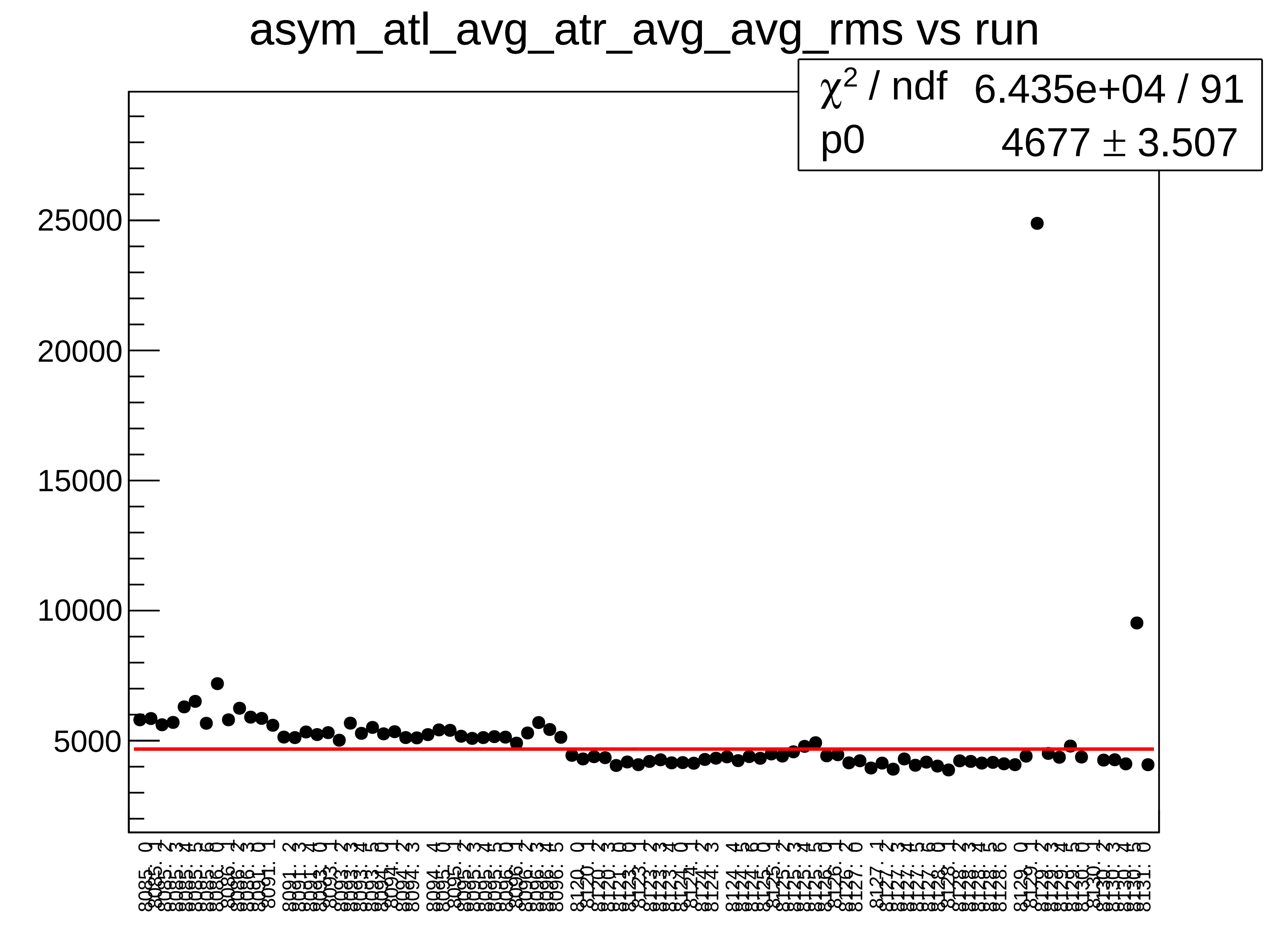

asym_atl_avg_atr_avg_avg_correction_mean vs run
χ^2 / ndf 59.97 / 91
p0 7736 ± 4672
pull
Entries 92
Mean 2463
Std Dev 2408
pull1D
Entries 92
Mean −0.001055
Std Dev 0.8074

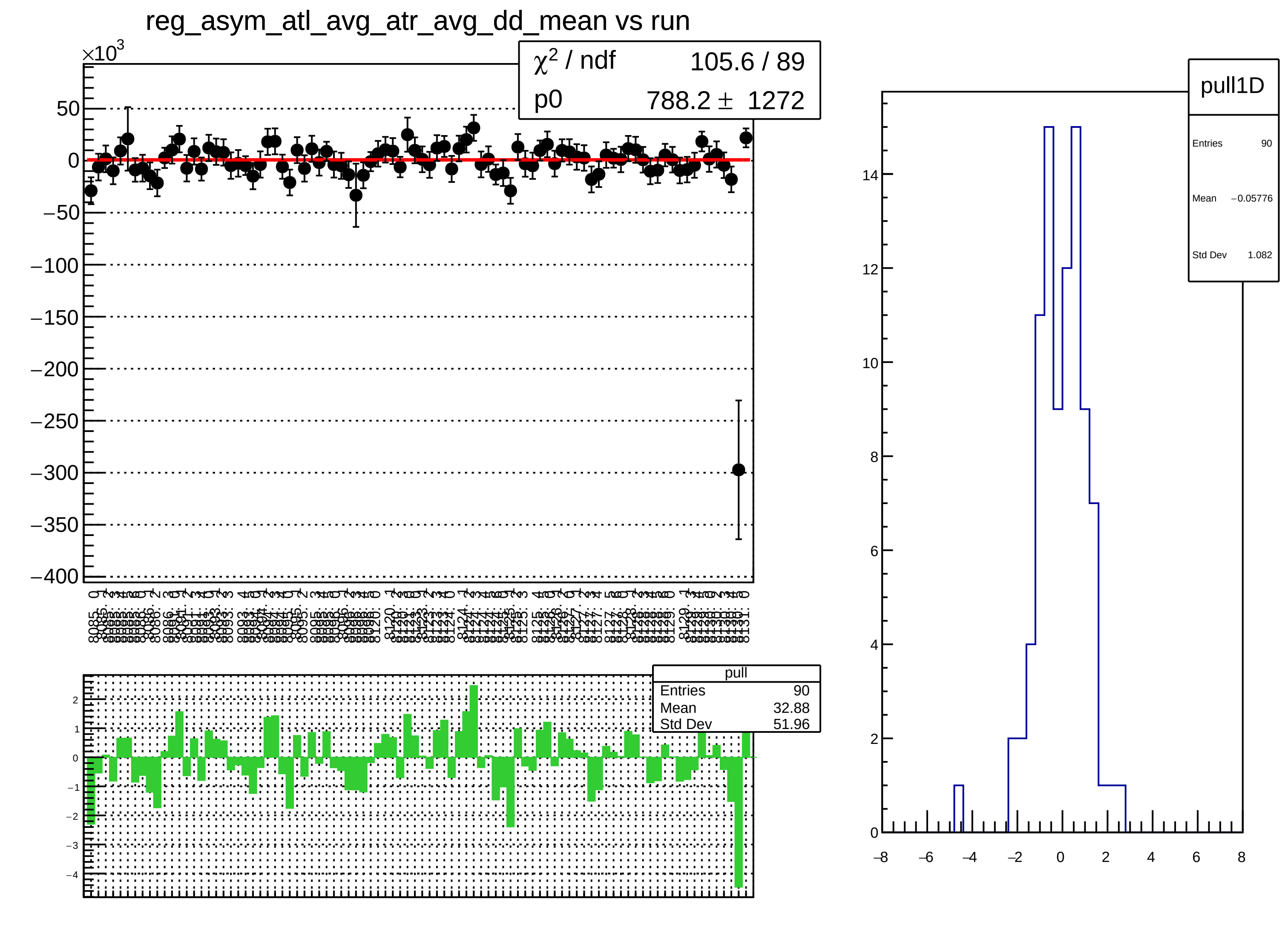


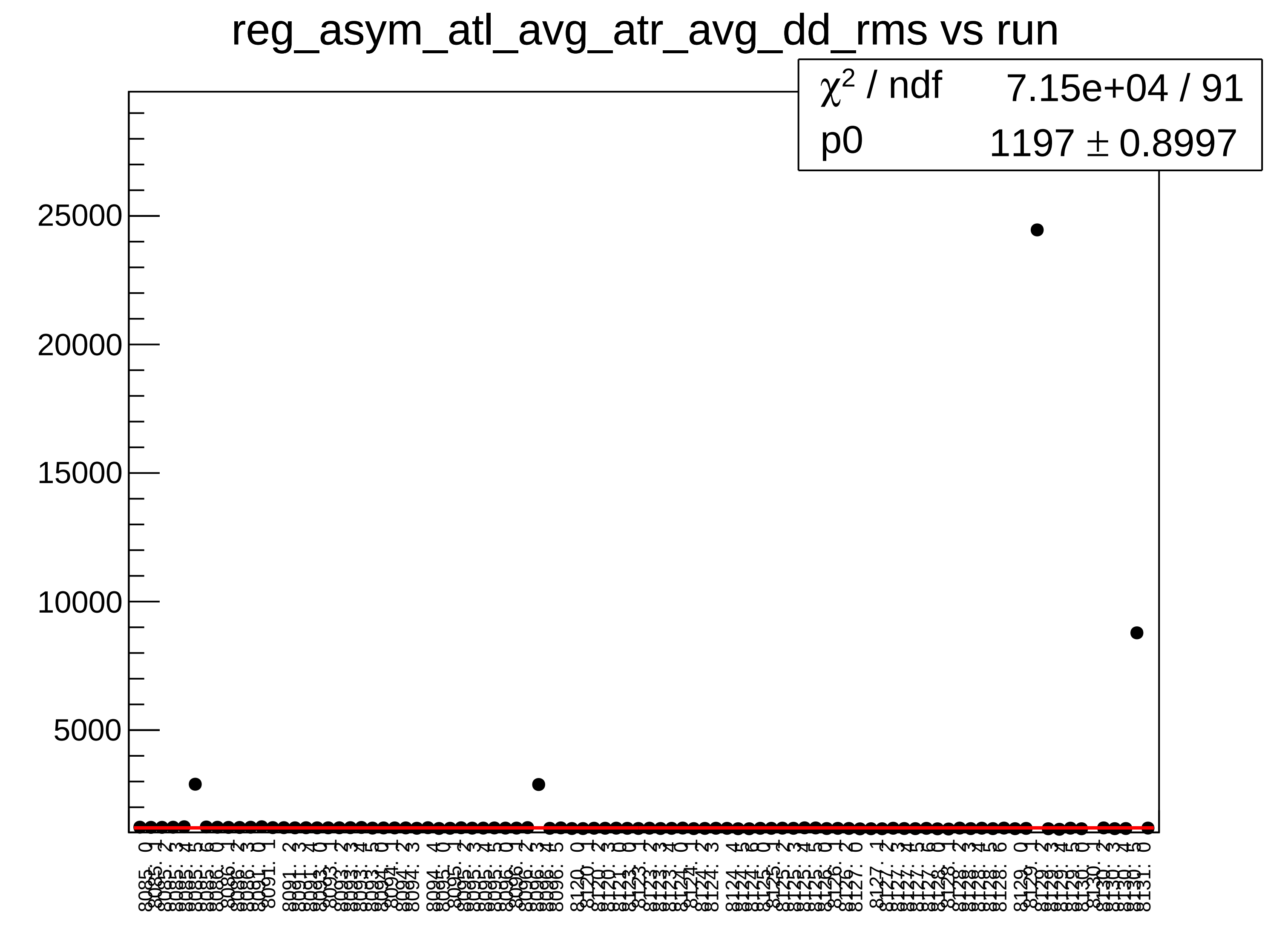
asym_atl_avg_atr_avg_avg_correction_rms vs run
χ^2 / ndf 3.505e+04 / 91
p0 4442 ± 3.304
7000
6500
6000
5500
5000
4500
4000
3500



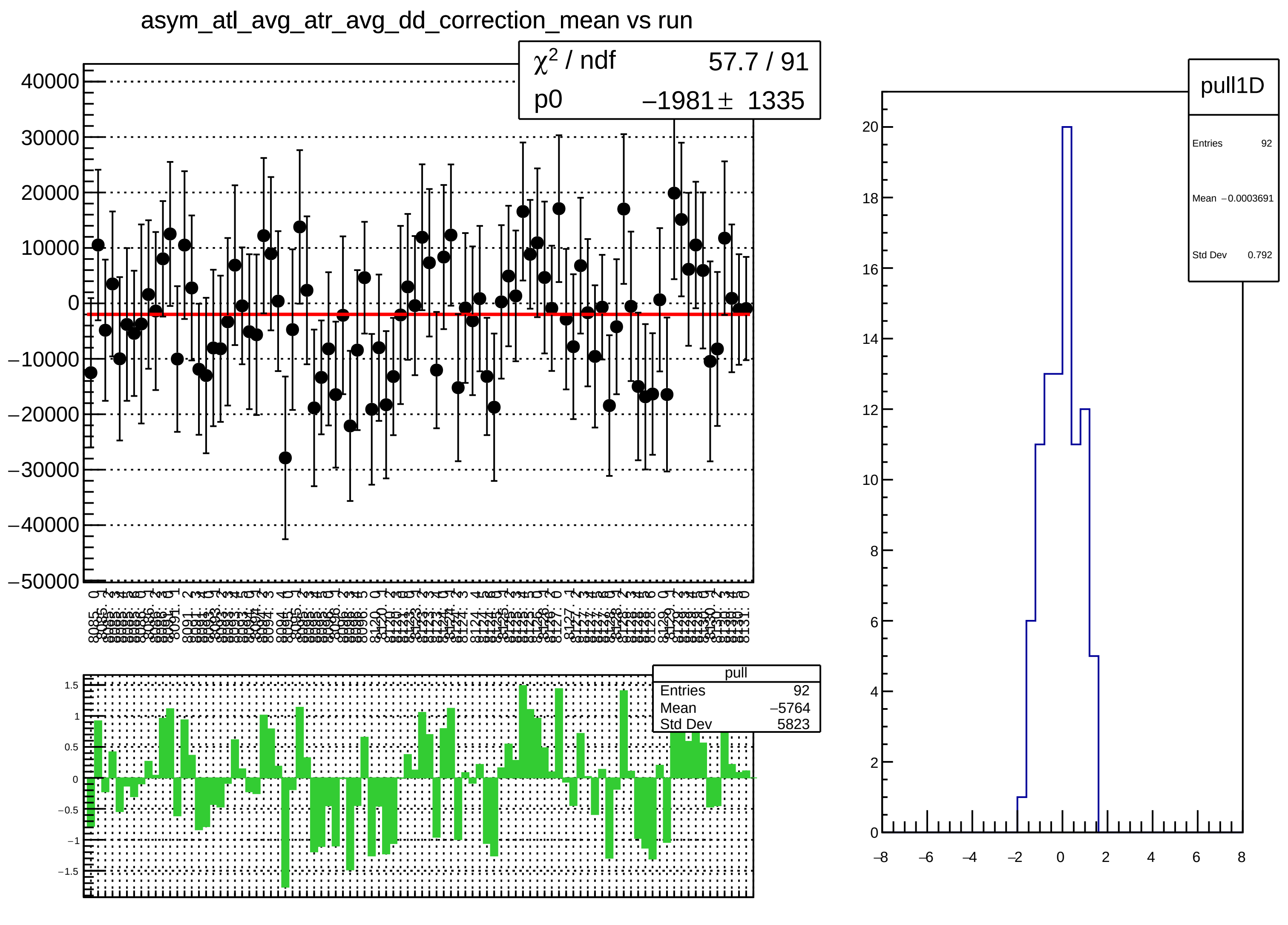
asym_atl_avg_atr_avg_avg_mean vs run
×10^3
χ^2 / ndf 78.09 / 89
p0 −1.132e+04 ± 4962
pull
Entries 90
Mean 77.09
Std Dev 24.76
pull1D
Entries 90
Mean −0.01496
Std Dev 0.9314


asym_atl_avg_atr_avg_avg_rms vs run
χ^2 / ndf 6.435e+04 / 91
p0 4677 ± 3.507
25000
20000
15000
10000
5000

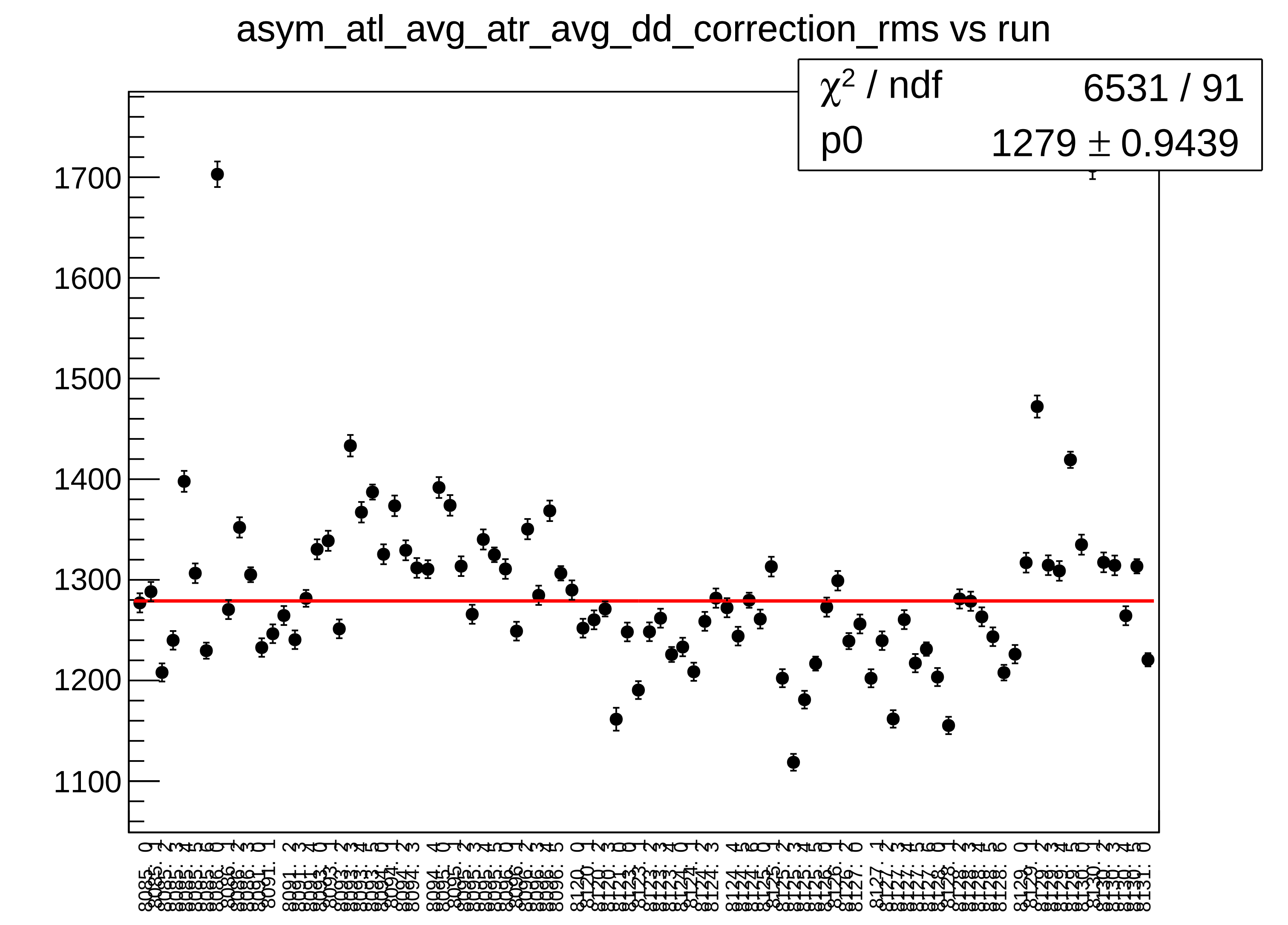

reg_asym_atl_avg_atr_avg_dd_mean vs run
×10^3
χ^2 / ndf 105.6 / 89
p0 788.2 ± 1272
50
0
−50
−100
−150
−200
−250
−300
−350
−400
pull
Entries 90
Mean 32.88
Std Dev 51.96
2
1
0
−1
−2
−3
−4
pull1D
Entries 90
Mean −0.05776
Std Dev 1.082
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8



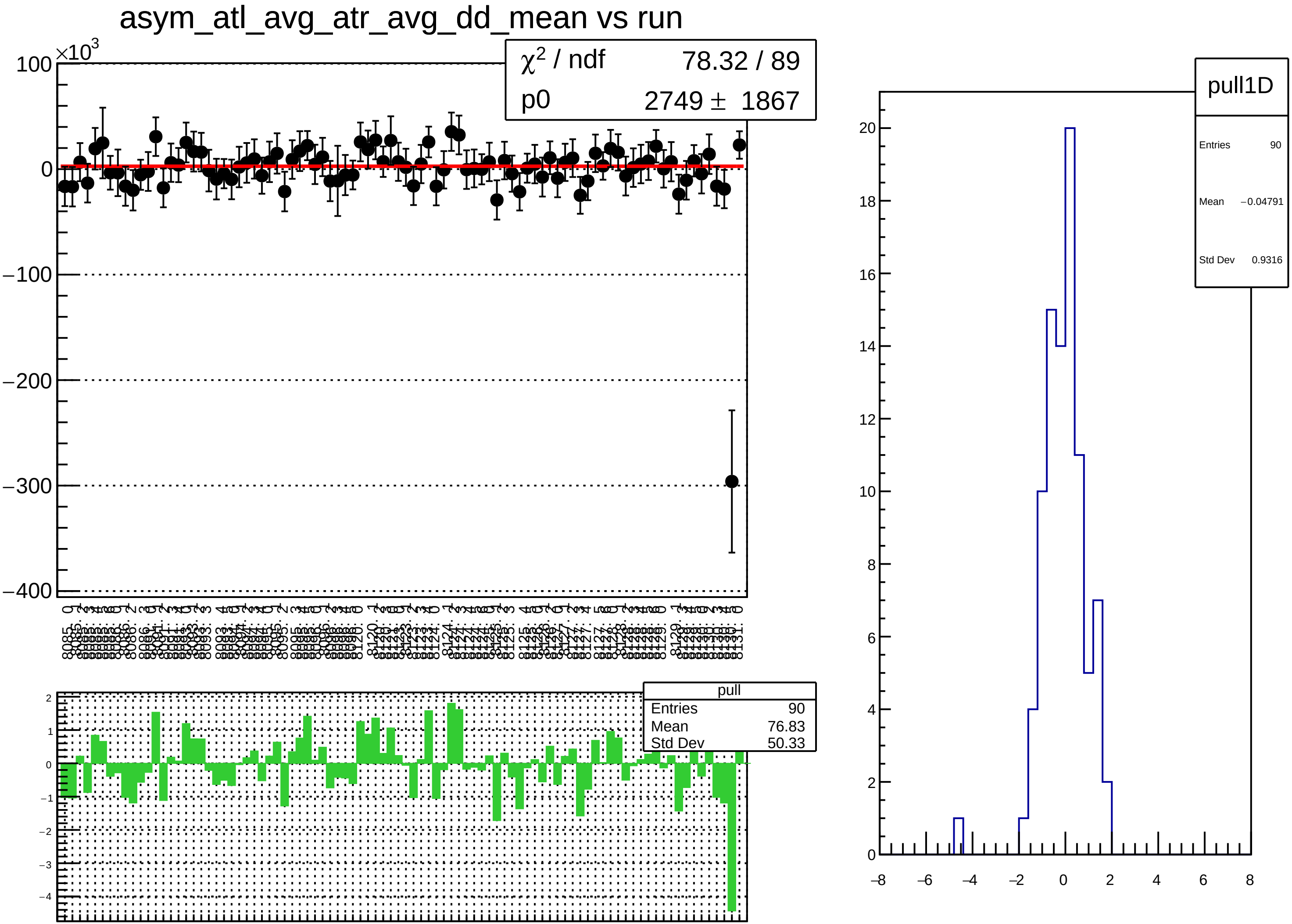
reg_asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 7.15e+04 / 91
p0 1197 ± 0.8997
25000
20000
15000
10000
5000



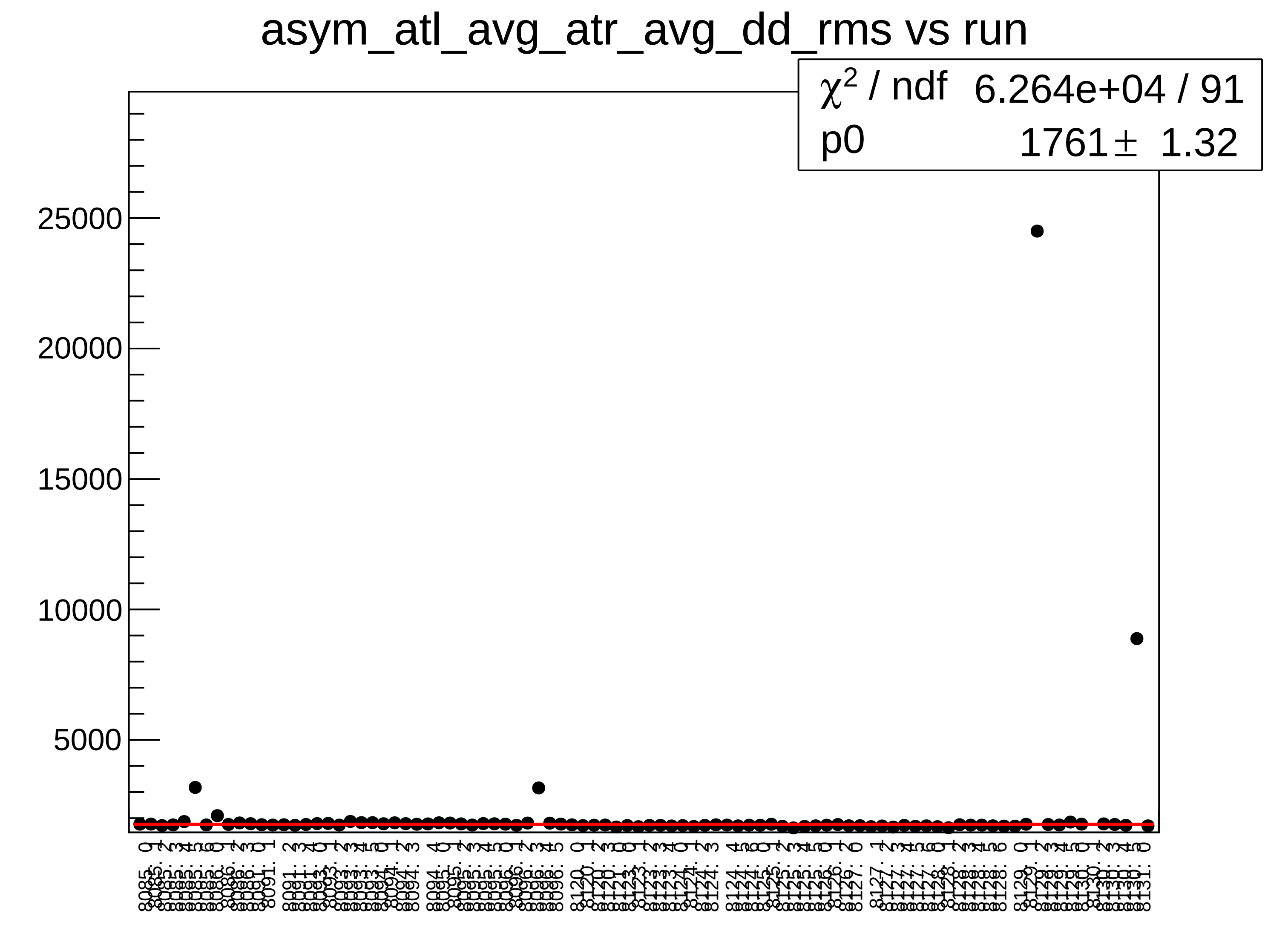
asym_atl_avg_atr_avg_dd_correction_mean vs run
χ^2 / ndf 57.7 / 91
p0 −1981 ± 1335
pull
Entries 92
Mean −5764
Std Dev 5823
pull1D
Entries 92
Mean −0.0003691
Std Dev 0.792

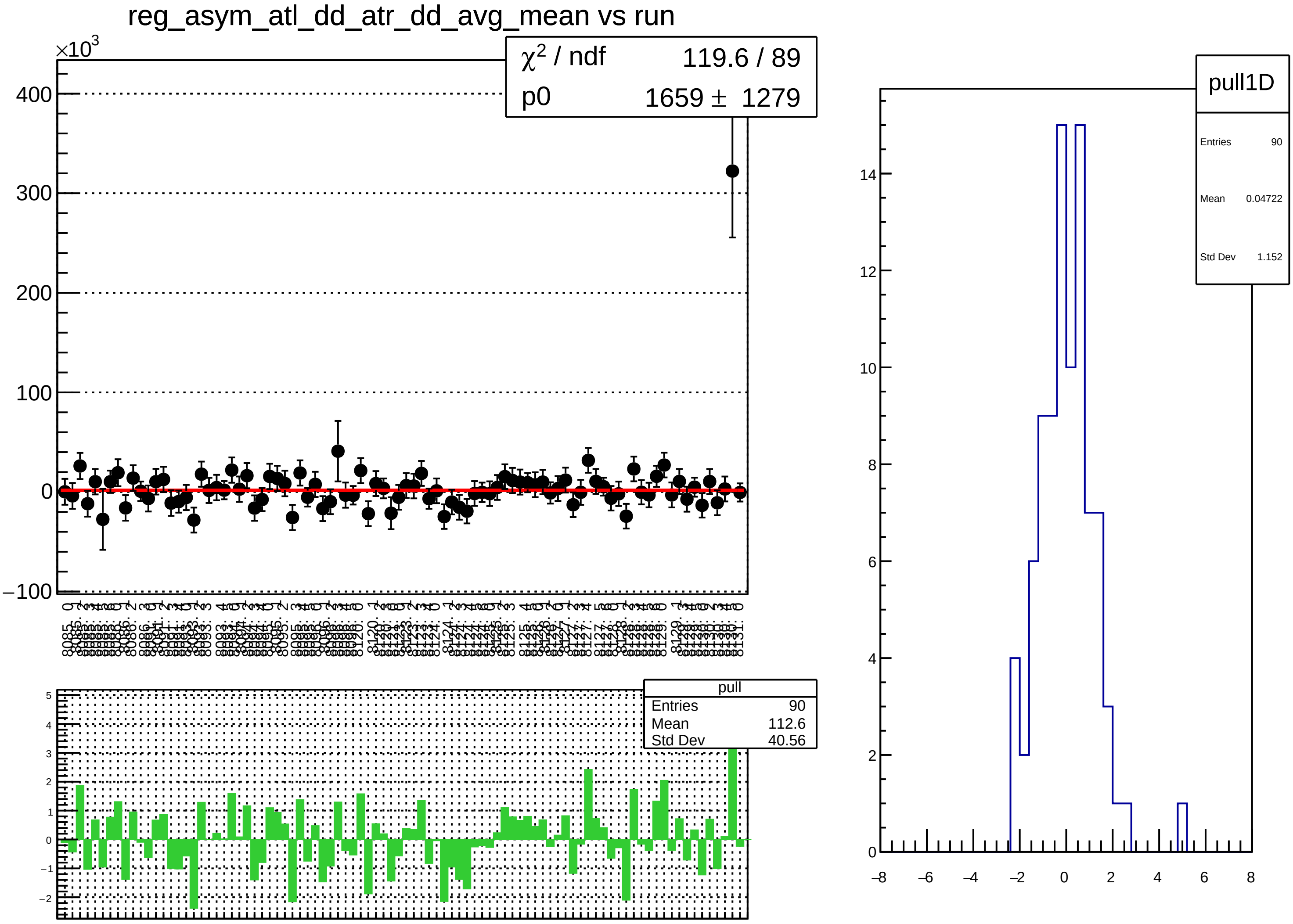


asym_atl_avg_atr_avg_dd_correction_rms vs run
χ^2 / ndf 6531 / 91
p0 1279 ± 0.9439
1700
1600
1500
1400
1300
1200
1100

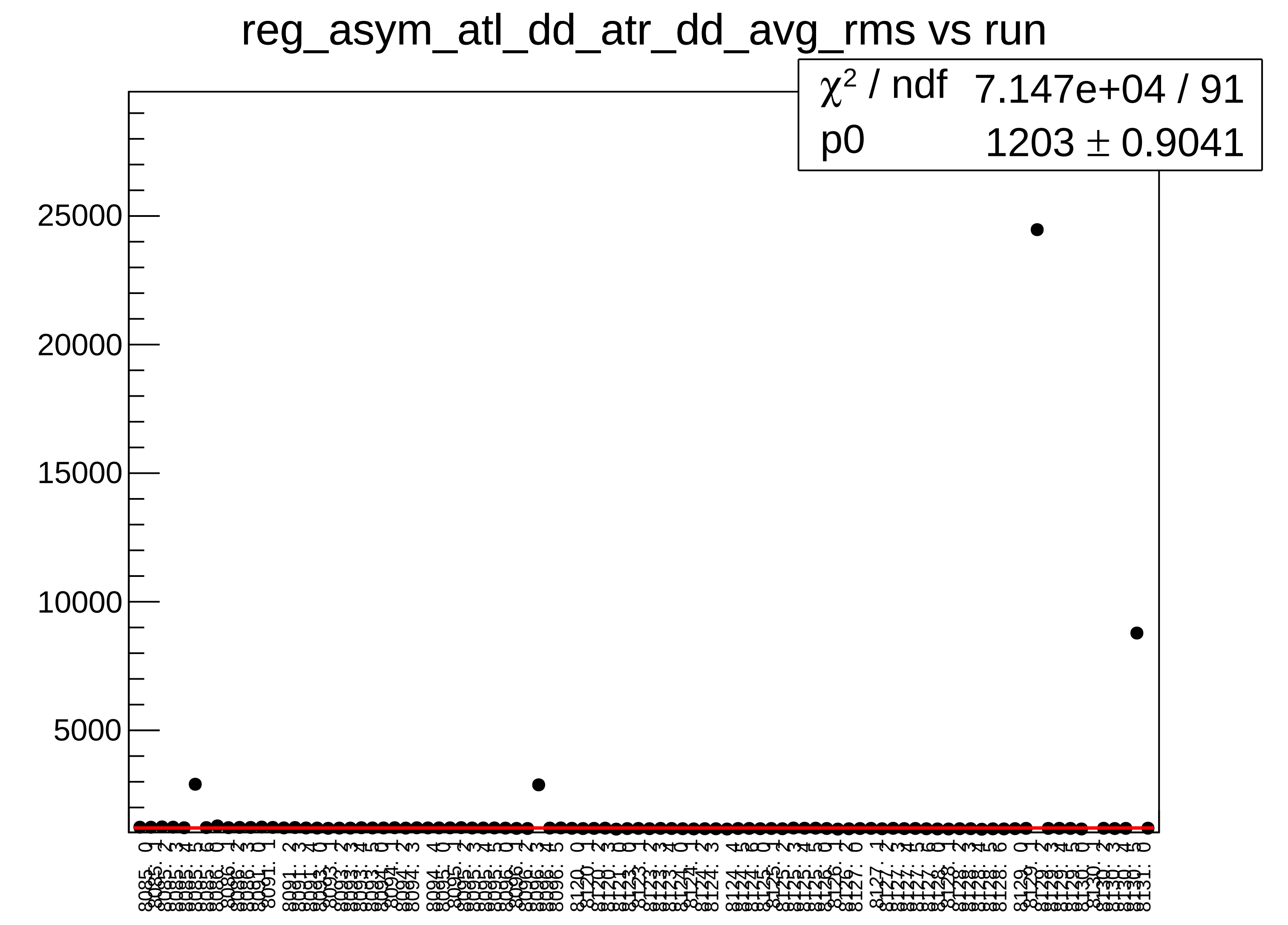


asym_atl_avg_atr_avg_dd_mean vs run
χ2 / ndf 78.32 / 89
p0 2749 ± 1867
×10^3
100
0
−100
−200
−300
−400
pull
Entries 90
Mean 76.83
Std Dev 50.33
pull1D
Entries 90
Mean −0.04791
Std Dev 0.9316

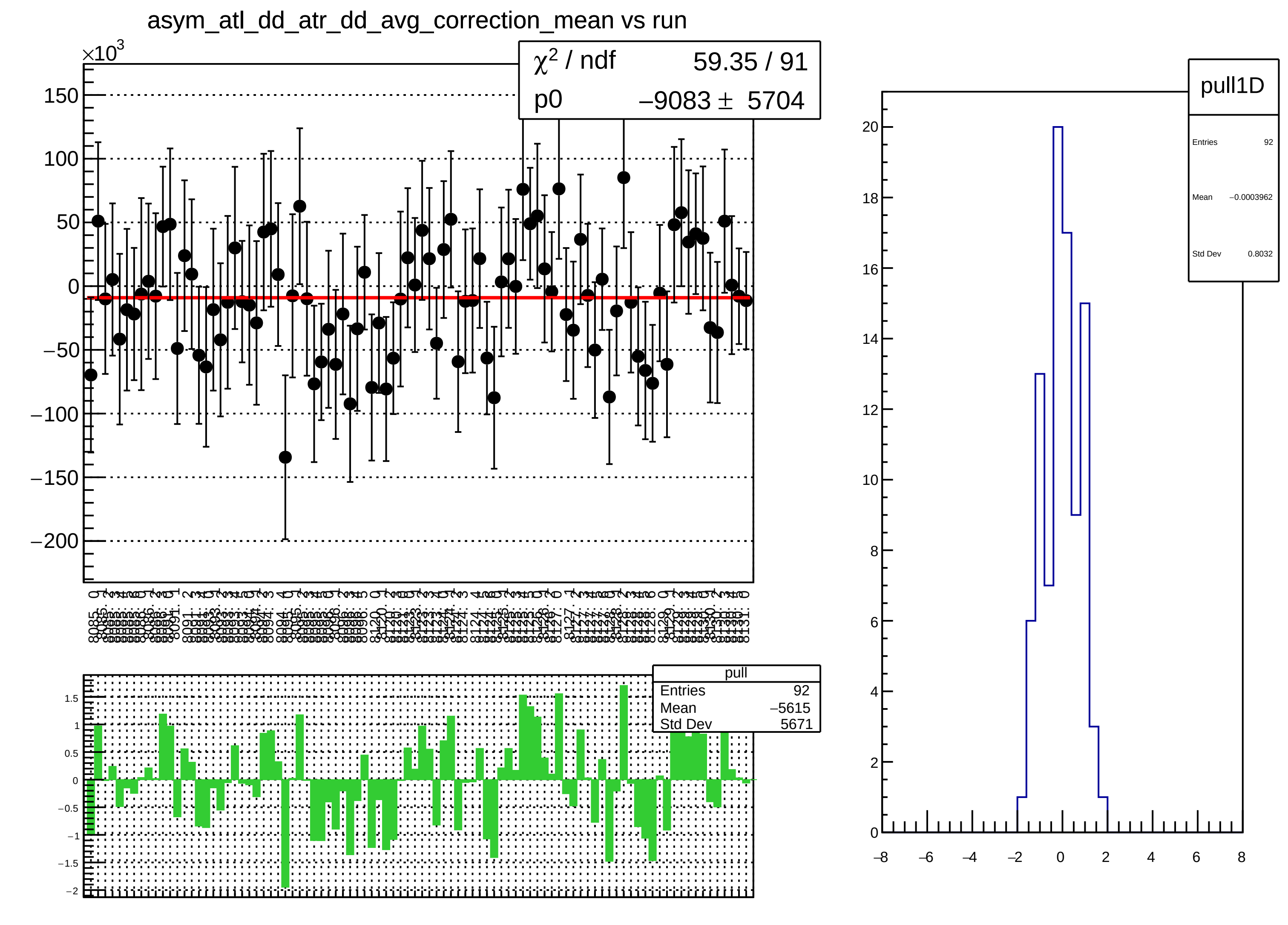

asym_atl_avg_atr_avg_dd_rms vs run
χ2 / ndf 6.264e+04 / 91
p0 1761 ± 1.32
25000
20000
15000
10000
5000



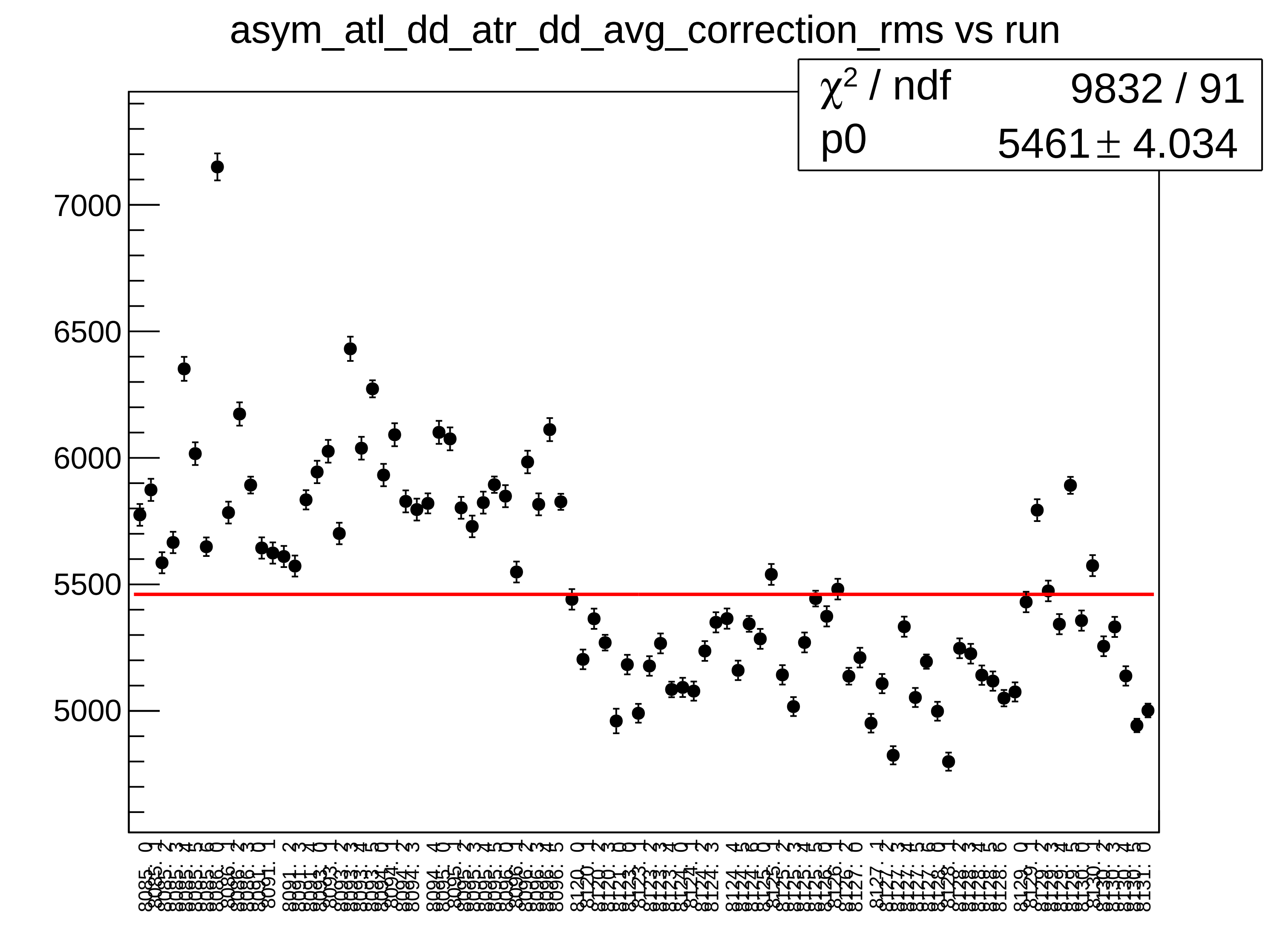
reg_asym_atl_dd_atr_dd_avg_mean vs run
$\times10^3$
χ^2 / ndf 119.6 / 89
p0 1659 ± 1279
pull
Entries 90
Mean 112.6
Std Dev 40.56
pull1D
Entries 90
Mean 0.04722
Std Dev 1.152

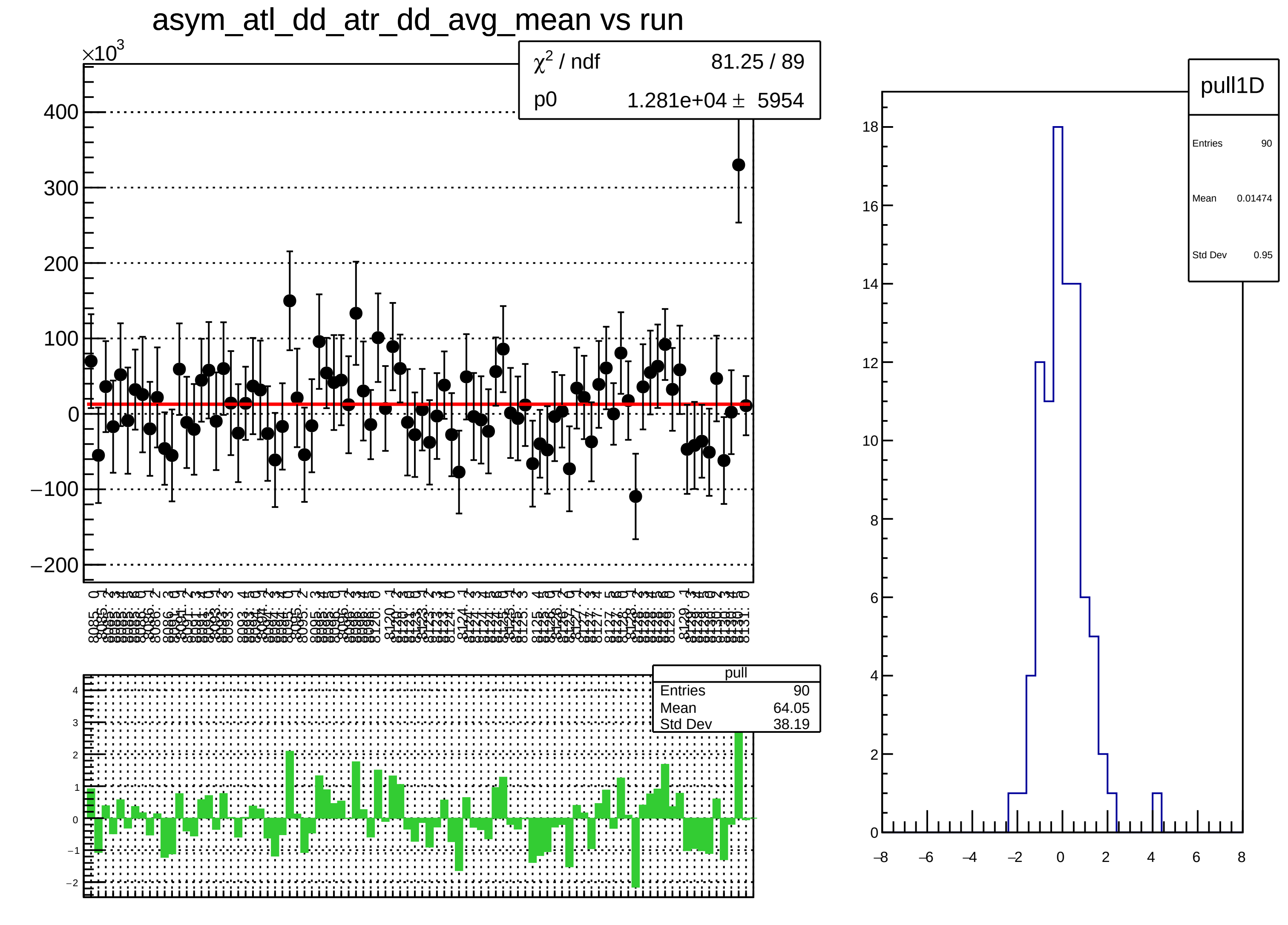


reg_asym_atl_dd_atr_dd_avg_rms vs run
χ2 / ndf 7.147e+04 / 91
p0 1203 ± 0.9041
25000
20000
15000
10000
5000

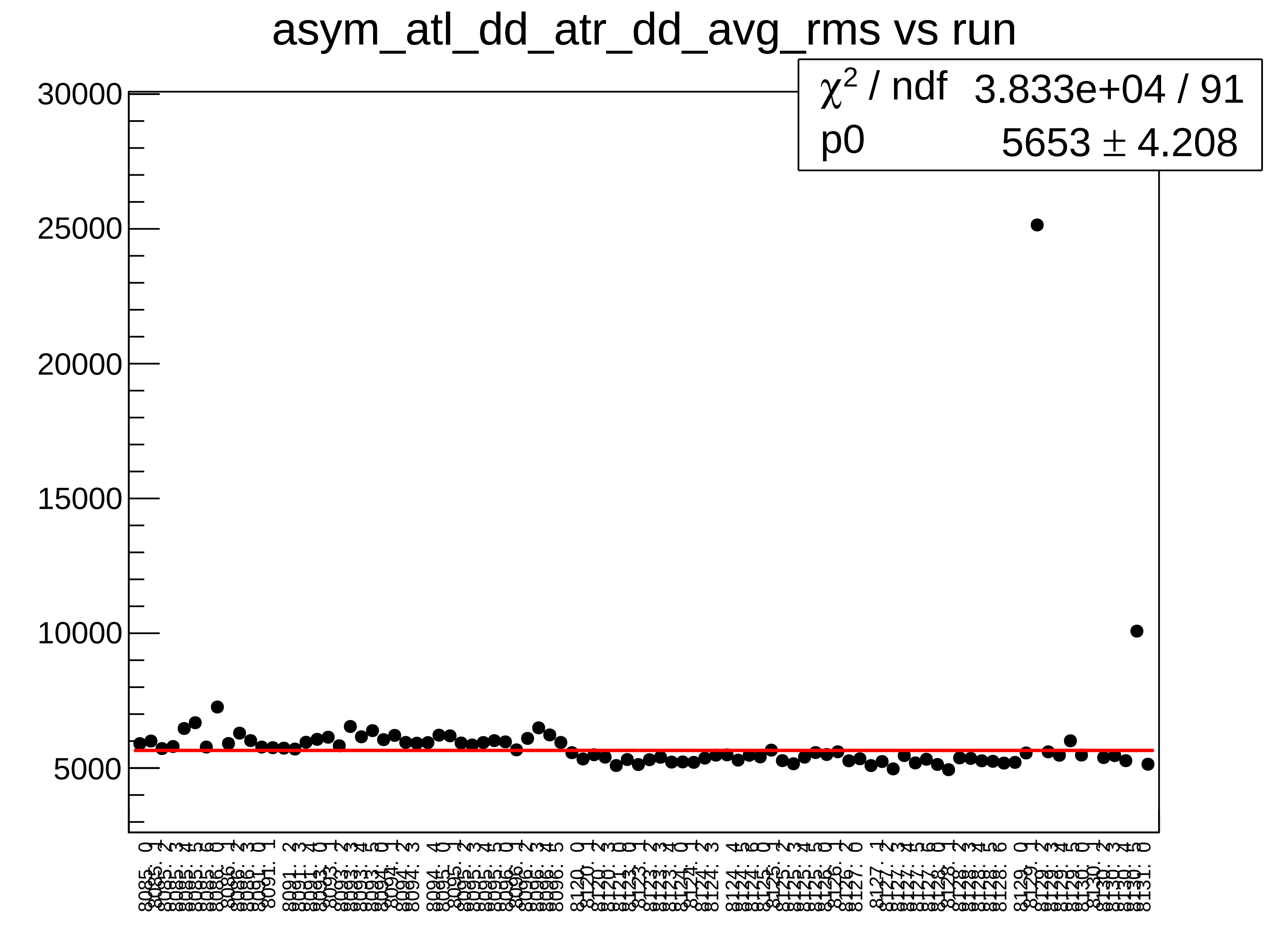


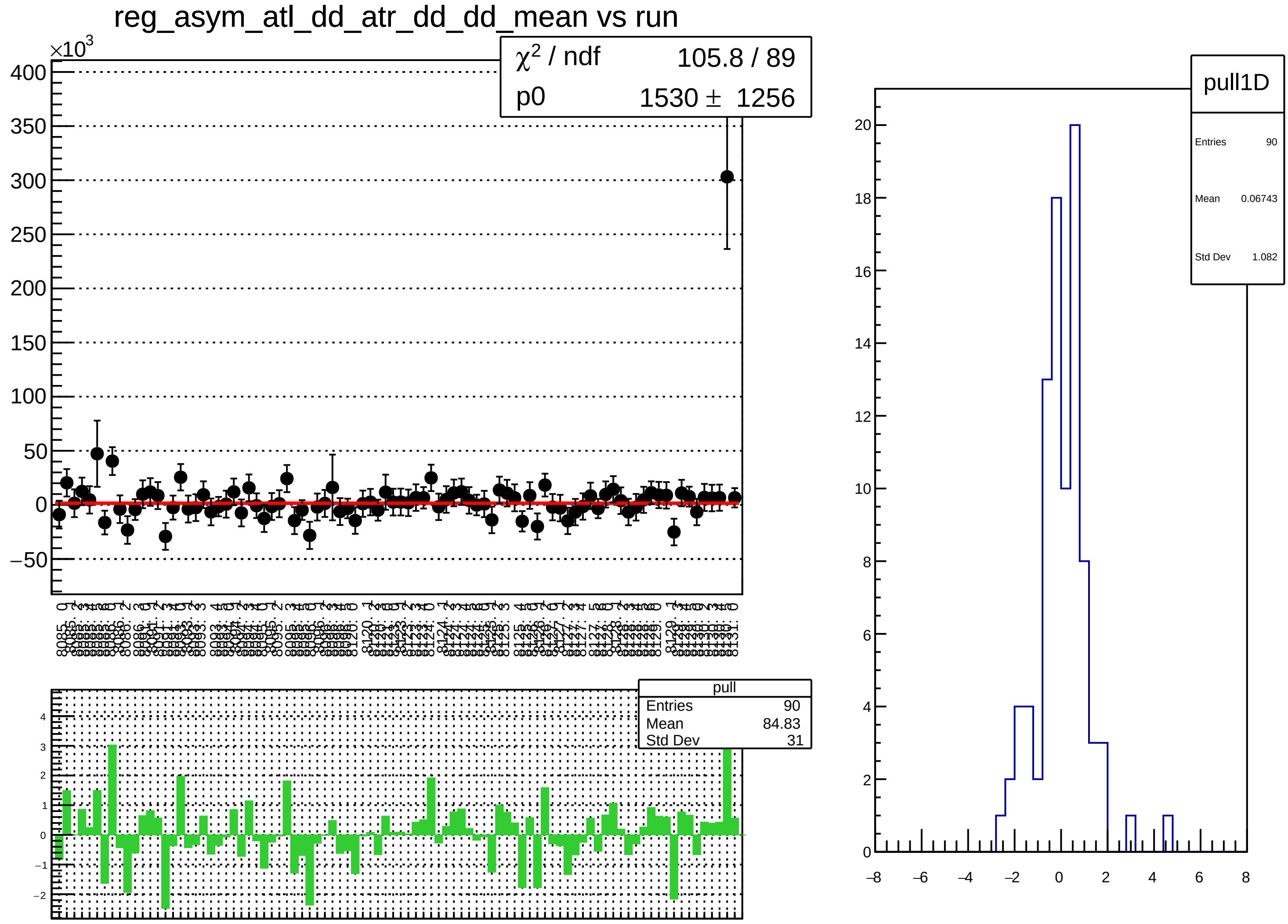
asym_atl_dd_atr_dd_avg_correction_mean vs run
×10^3
χ2 / ndf 59.35 / 91
p0 −9083 ± 5704
150
100
50
0
−50
−100
−150
−200
pull
Entries 92
Mean −5615
Std Dev 5671
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.0003962
Std Dev 0.8032
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_atl_dd_atr_dd_avg_correction_rms vs run
χ^2 / ndf 9832 / 91
p0 5461 ± 4.034
7000
6500
6000
5500
5000

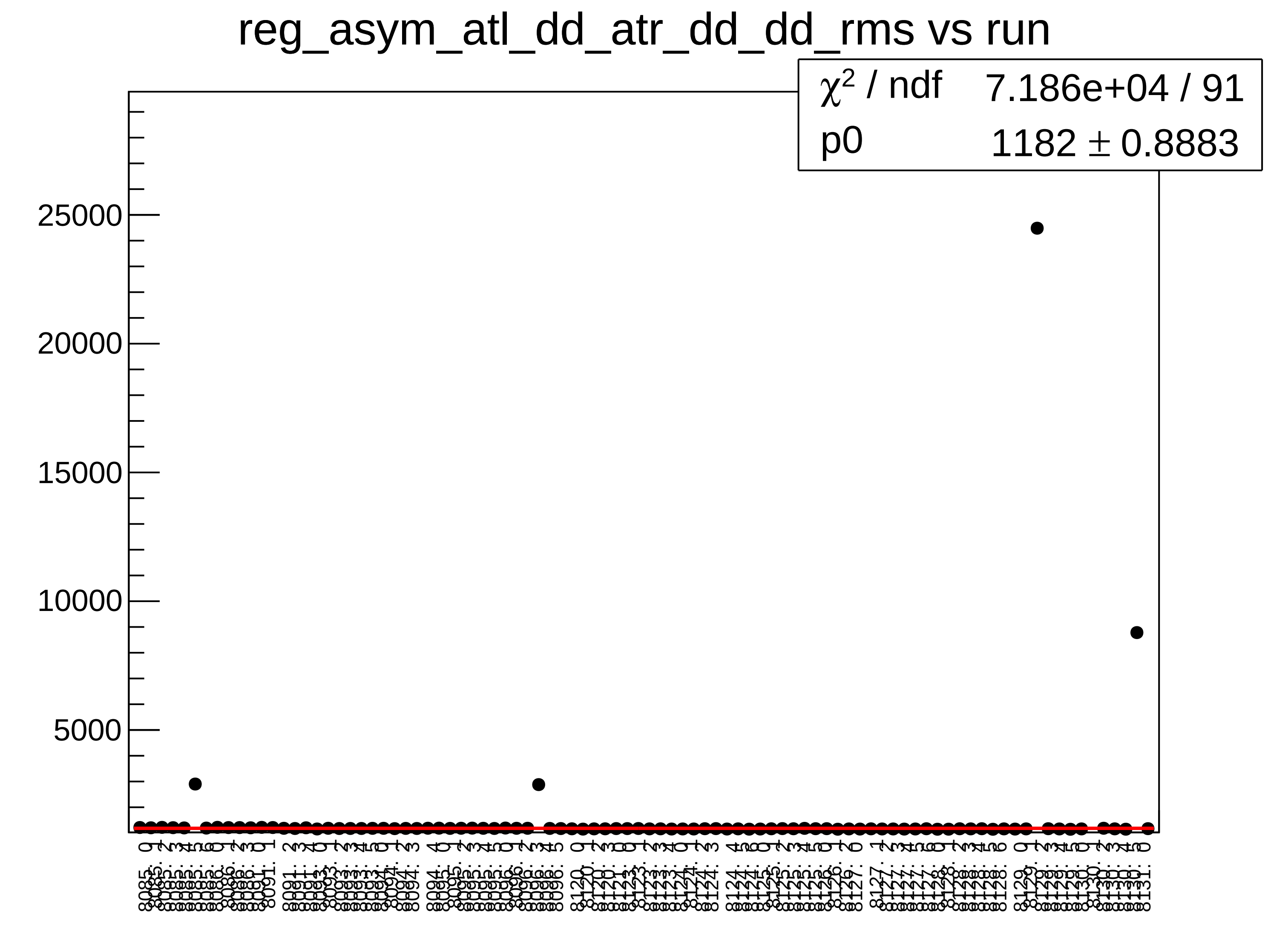


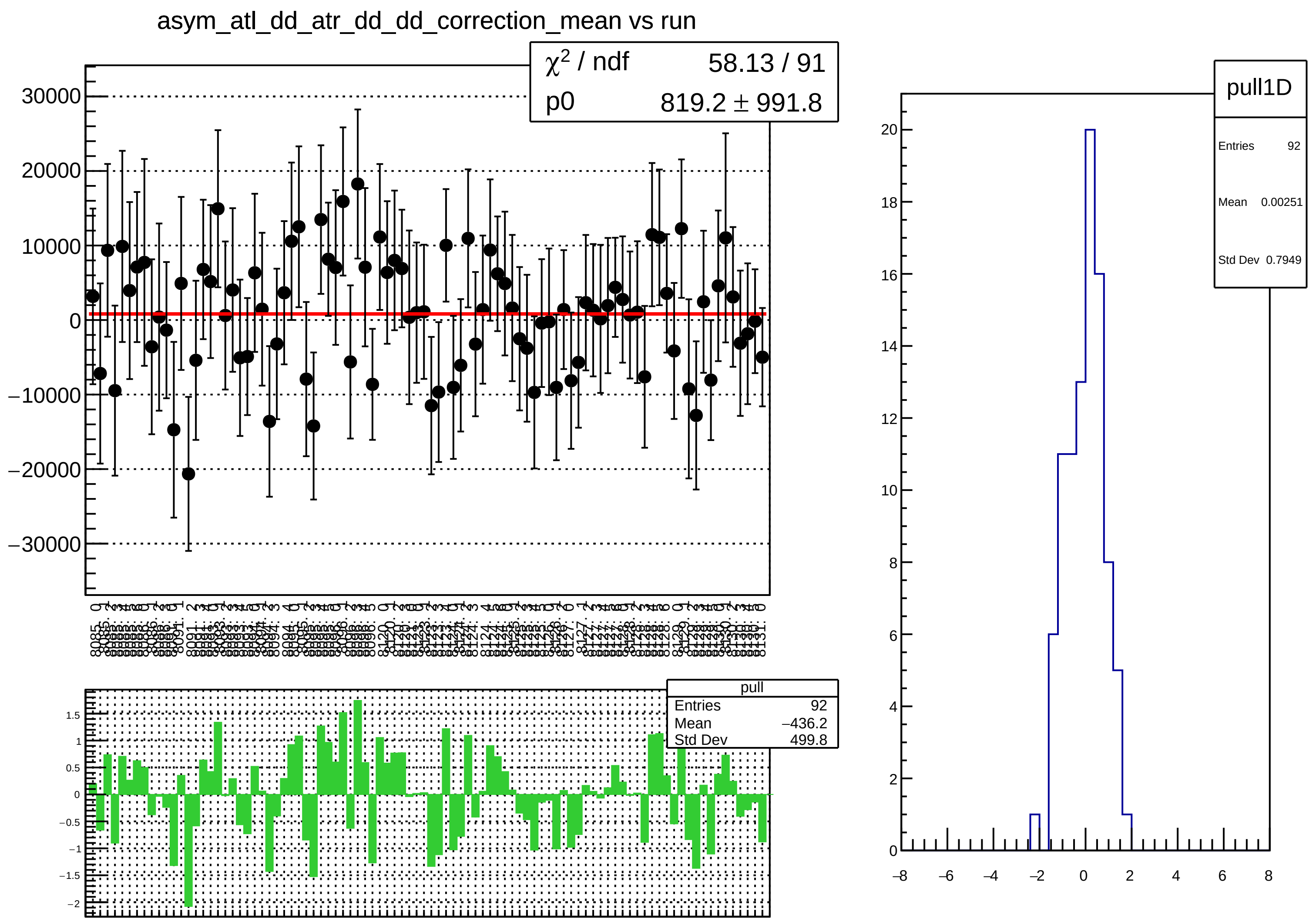
asym_atl_dd_atr_dd_avg_mean vs run
χ^2 / ndf 81.25 / 89
p0 1.281e+04 ± 5954
$\times10^3$
pull
Entries 90
Mean 64.05
Std Dev 38.19
pull1D
Entries 90
Mean 0.01474
Std Dev 0.95


asym_atl_dd_atr_dd_avg_rms vs run
χ2 / ndf 3.833e+04 / 91
p0 5653 ± 4.208
30000
25000
20000
15000
10000
5000

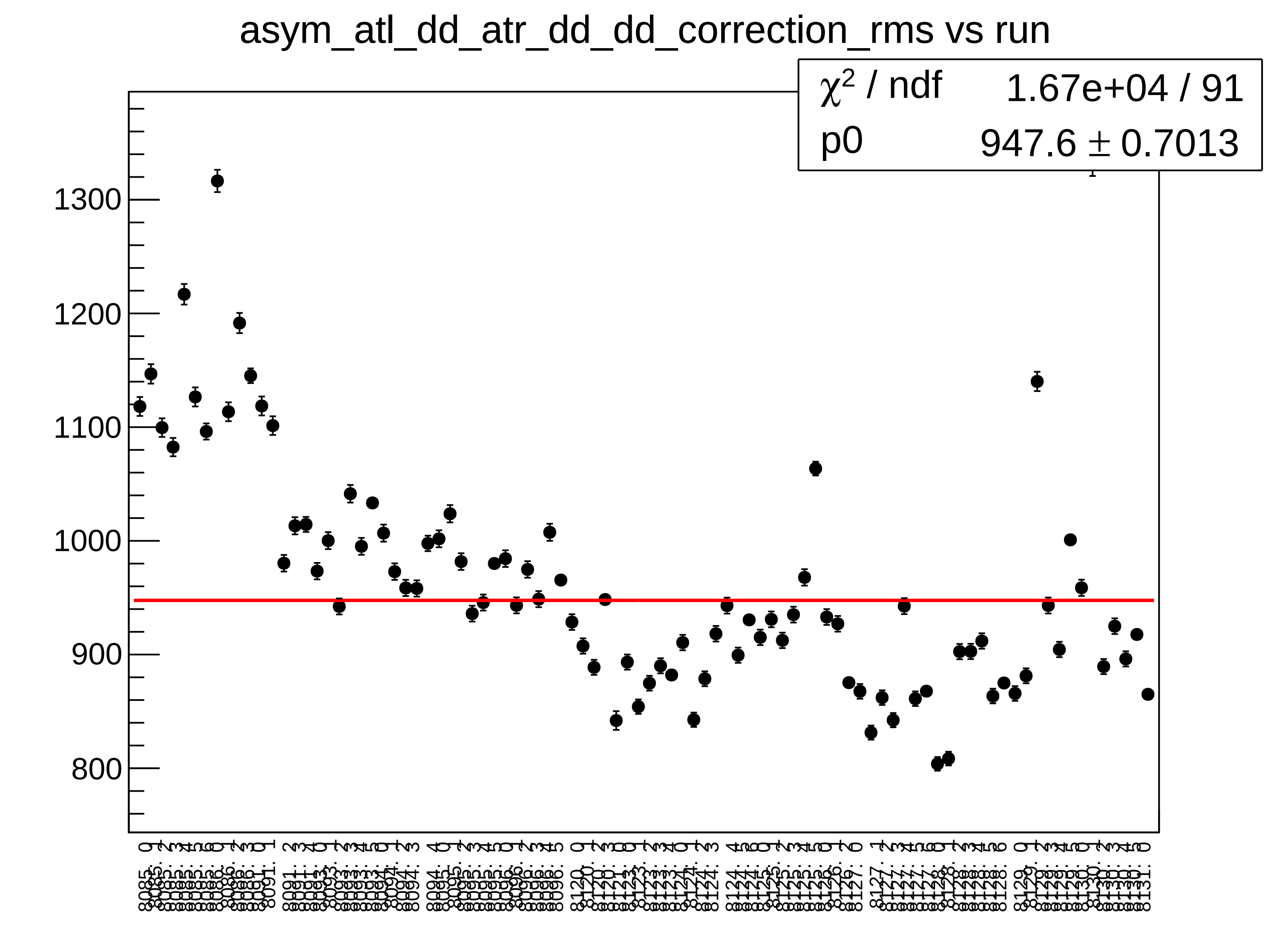


reg_asym_atl_dd_atr_dd_dd_mean vs run
$\times10^3$
χ^2 / ndf 105.8 / 89
p0 1530 ± 1256
pull
Entries 90
Mean 84.83
Std Dev 31
pull1D
Entries 90
Mean 0.06743
Std Dev 1.082

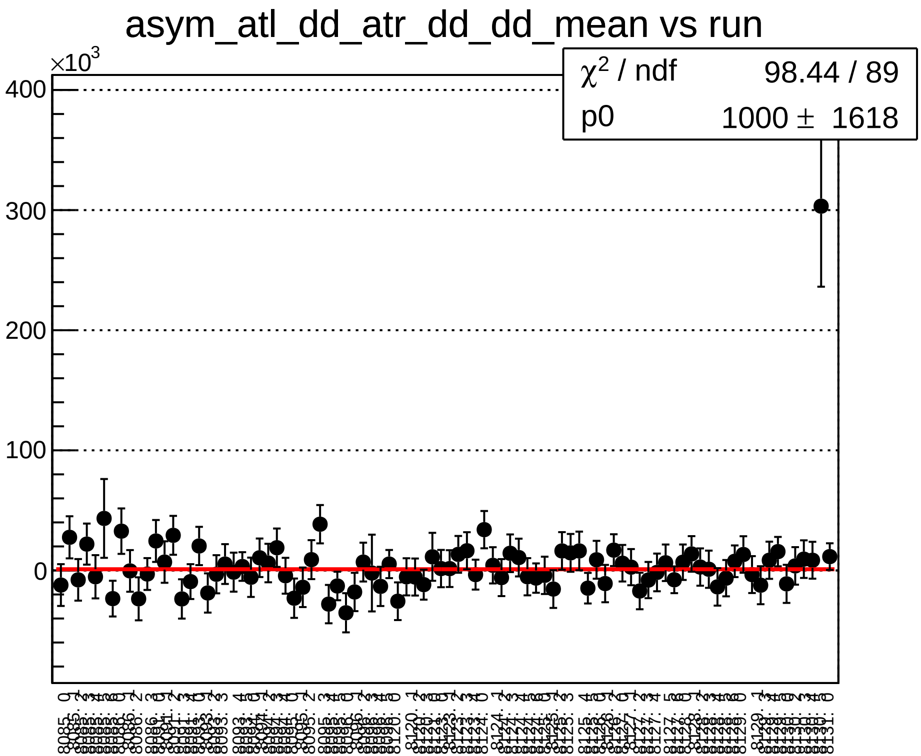

reg_asym_atl_dd_atr_dd_dd_rms vs run
χ^2 / ndf 7.186e+04 / 91
p0 1182 ± 0.8883
25000
20000
15000
10000
5000



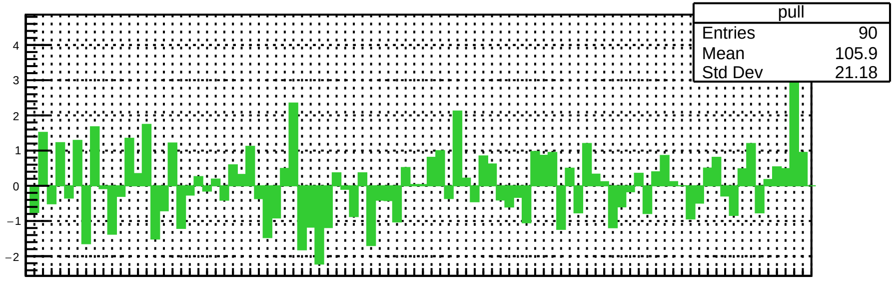
asym_atl_dd_atr_dd_dd_correction_mean vs run
χ^2 / ndf 58.13 / 91
p0 819.2 ± 991.8
pull
Entries 92
Mean −436.2
Std Dev 499.8
pull1D
Entries 92
Mean 0.00251
Std Dev 0.7949



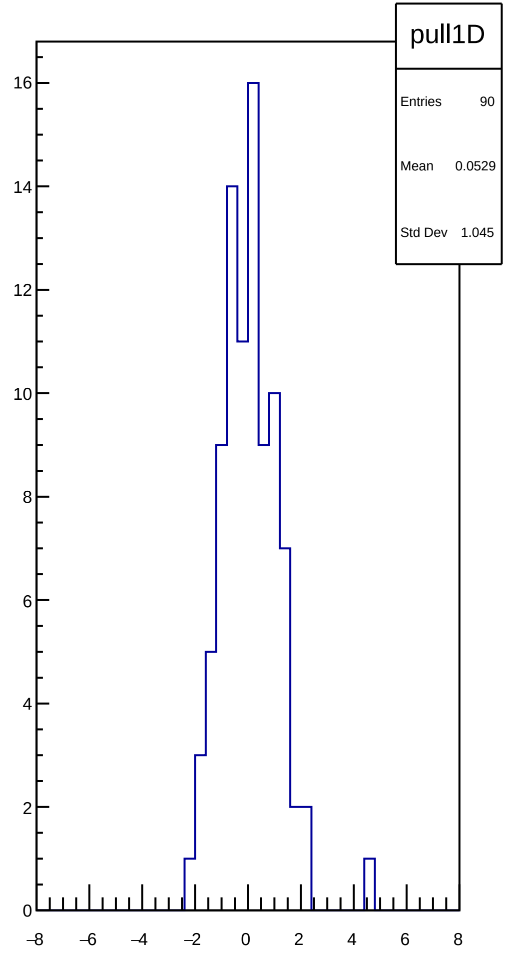
asym_atl_dd_atr_dd_dd_correction_rms vs run
χ2 / ndf 1.67e+04 / 91
p0 947.6 ± 0.7013
1300
1200
1100
1000
900
800



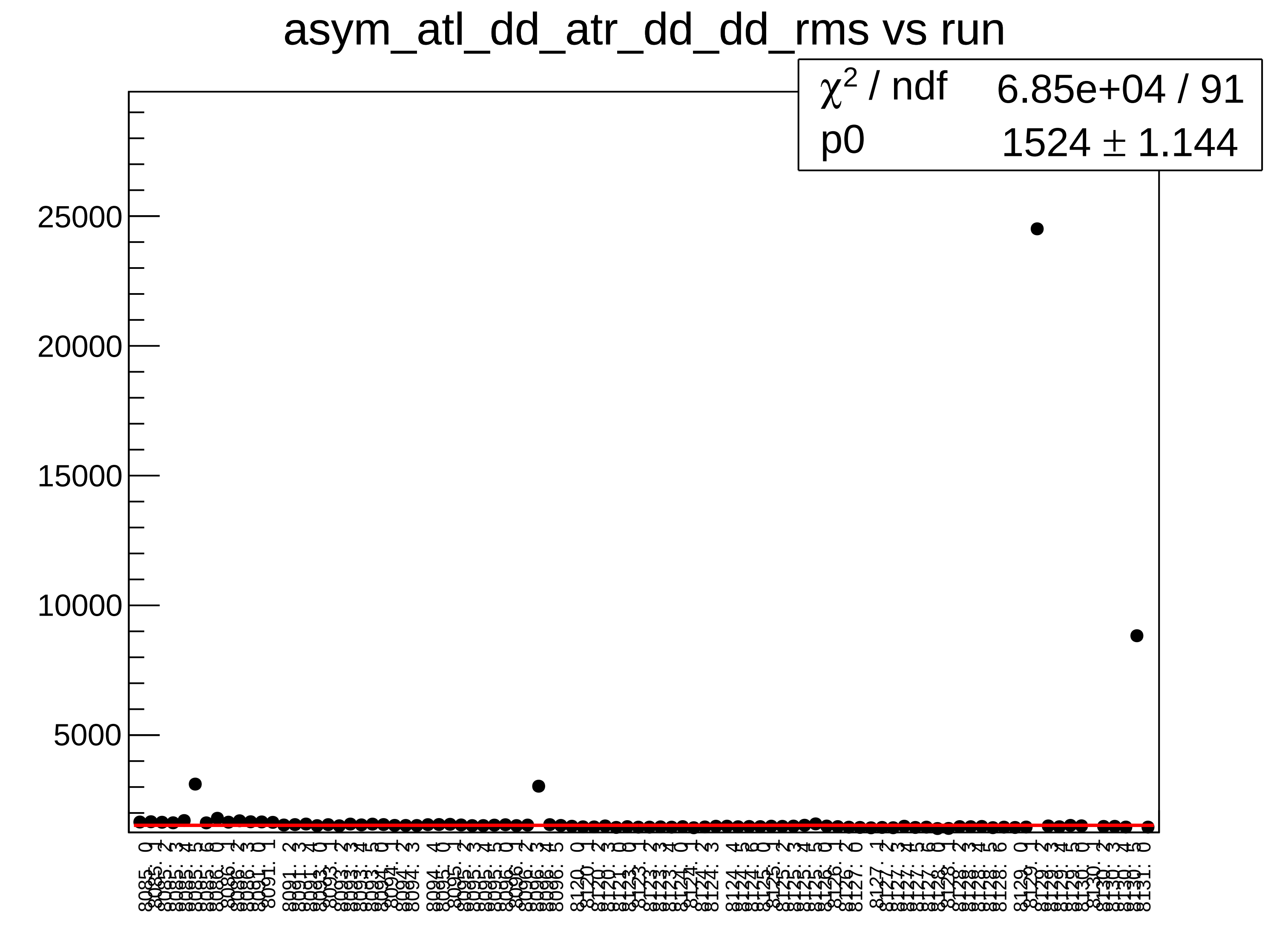
asym_atl_dd_atr_dd_dd_mean vs run
$\times10^3$
400
300
200
100
0
χ^2 / ndf 98.44 / 89
p0 1000 ± 1618



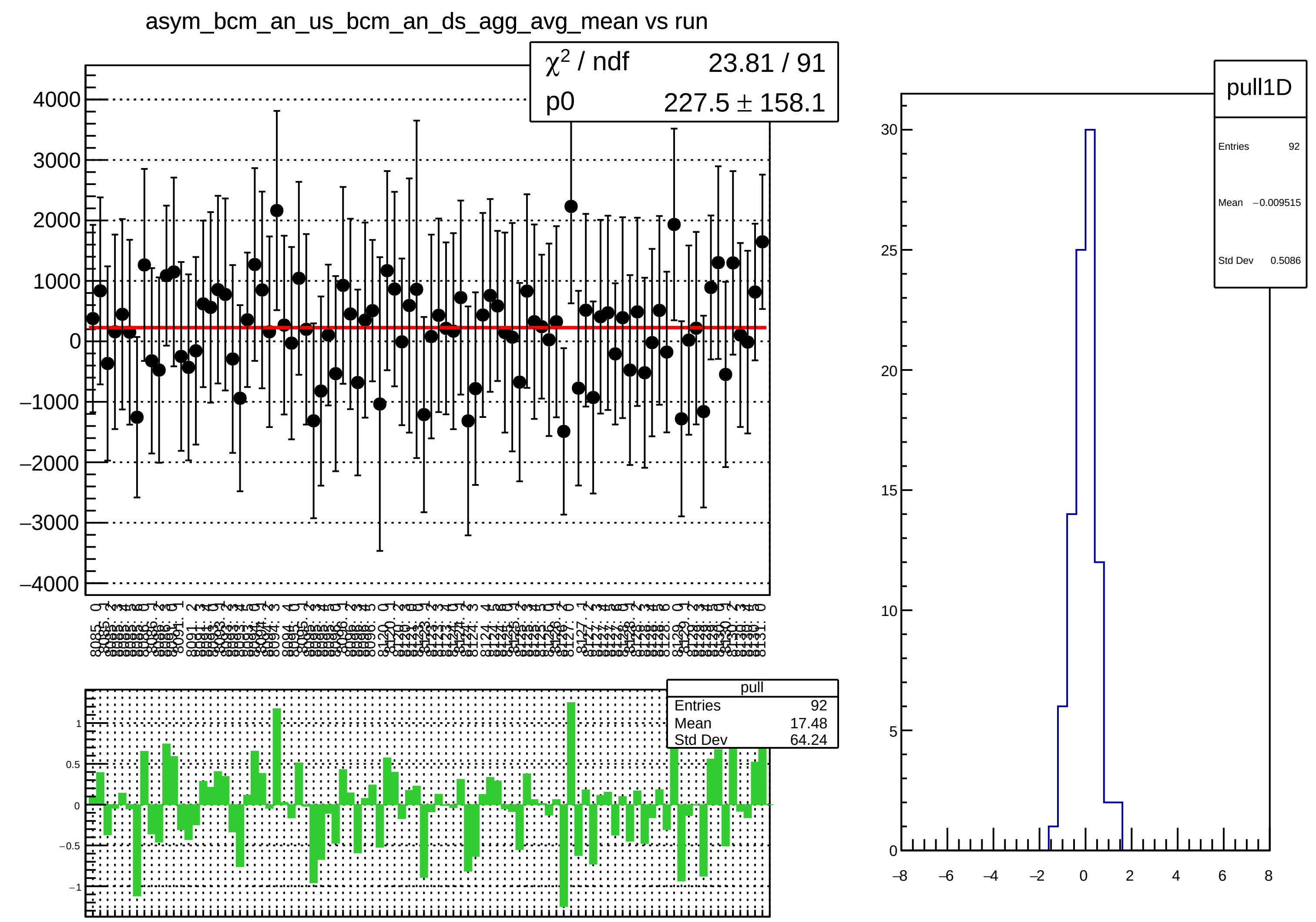
pull
Entries 90
Mean 105.9
Std Dev 21.18



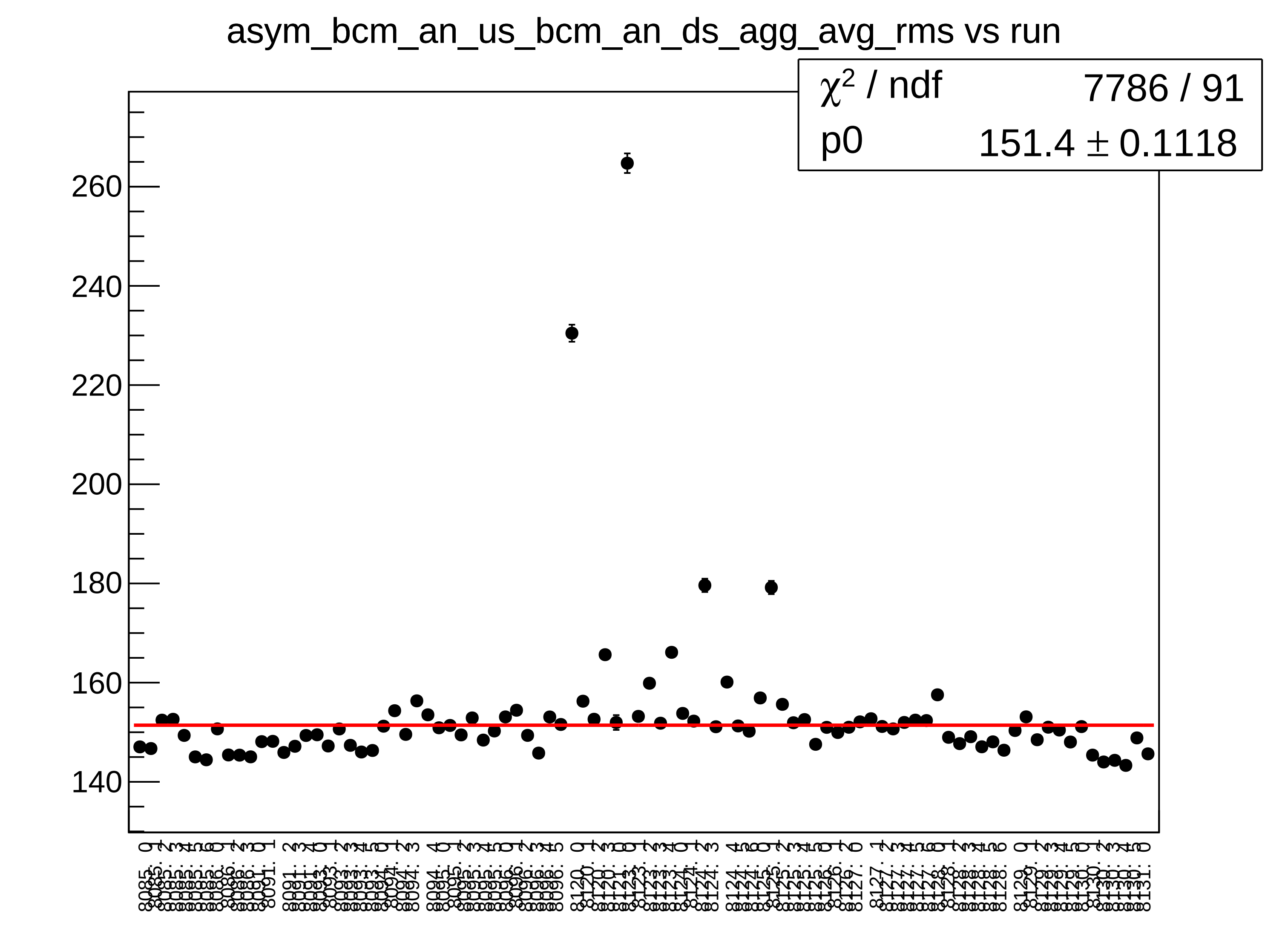
pull1D
Entries 90
Mean 0.0529
Std Dev 1.045



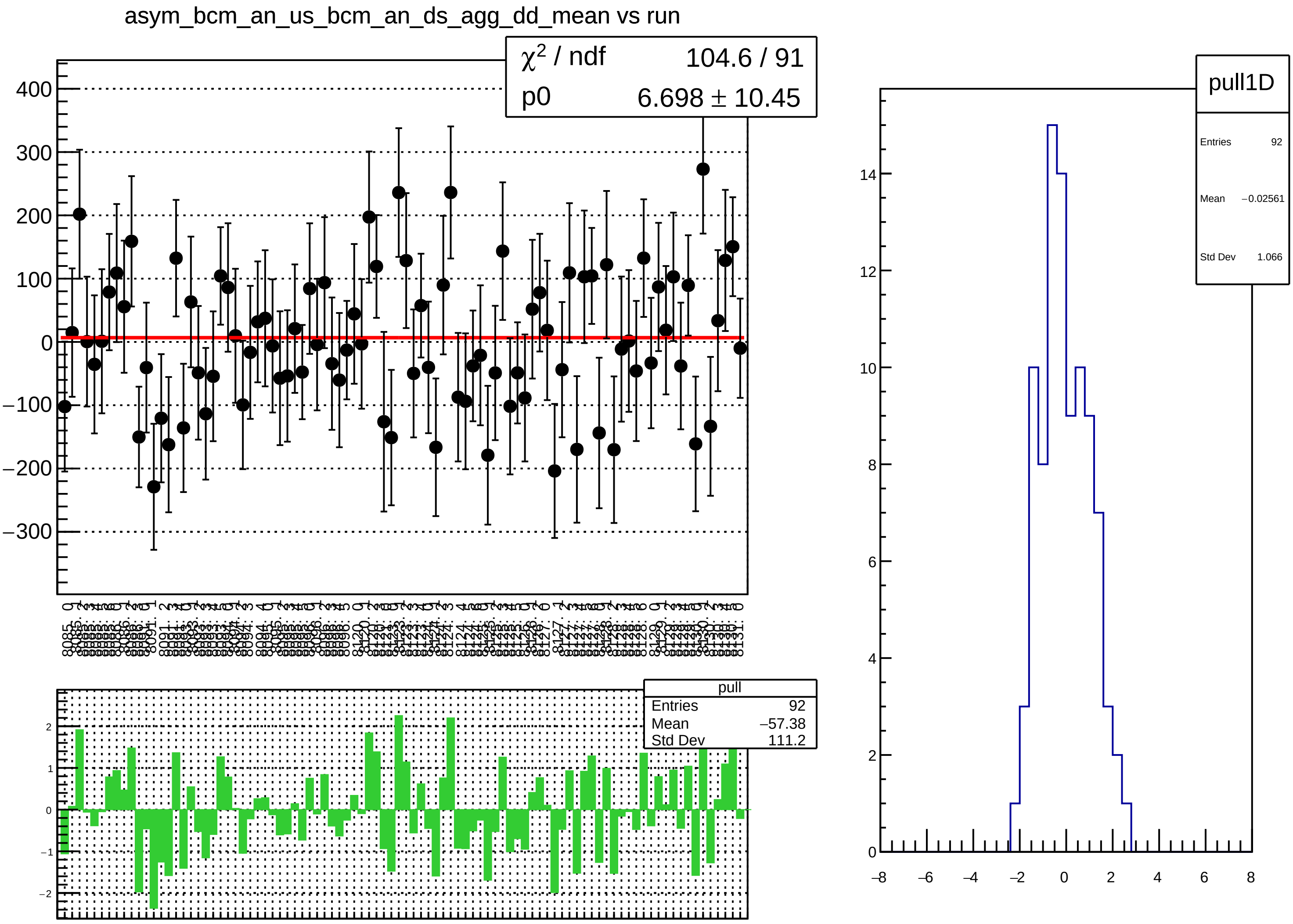
asym_atl_dd_atr_dd_dd_rms vs run
χ2 / ndf 6.85e+04 / 91
p0 1524 ± 1.144
25000
20000
15000
10000
5000



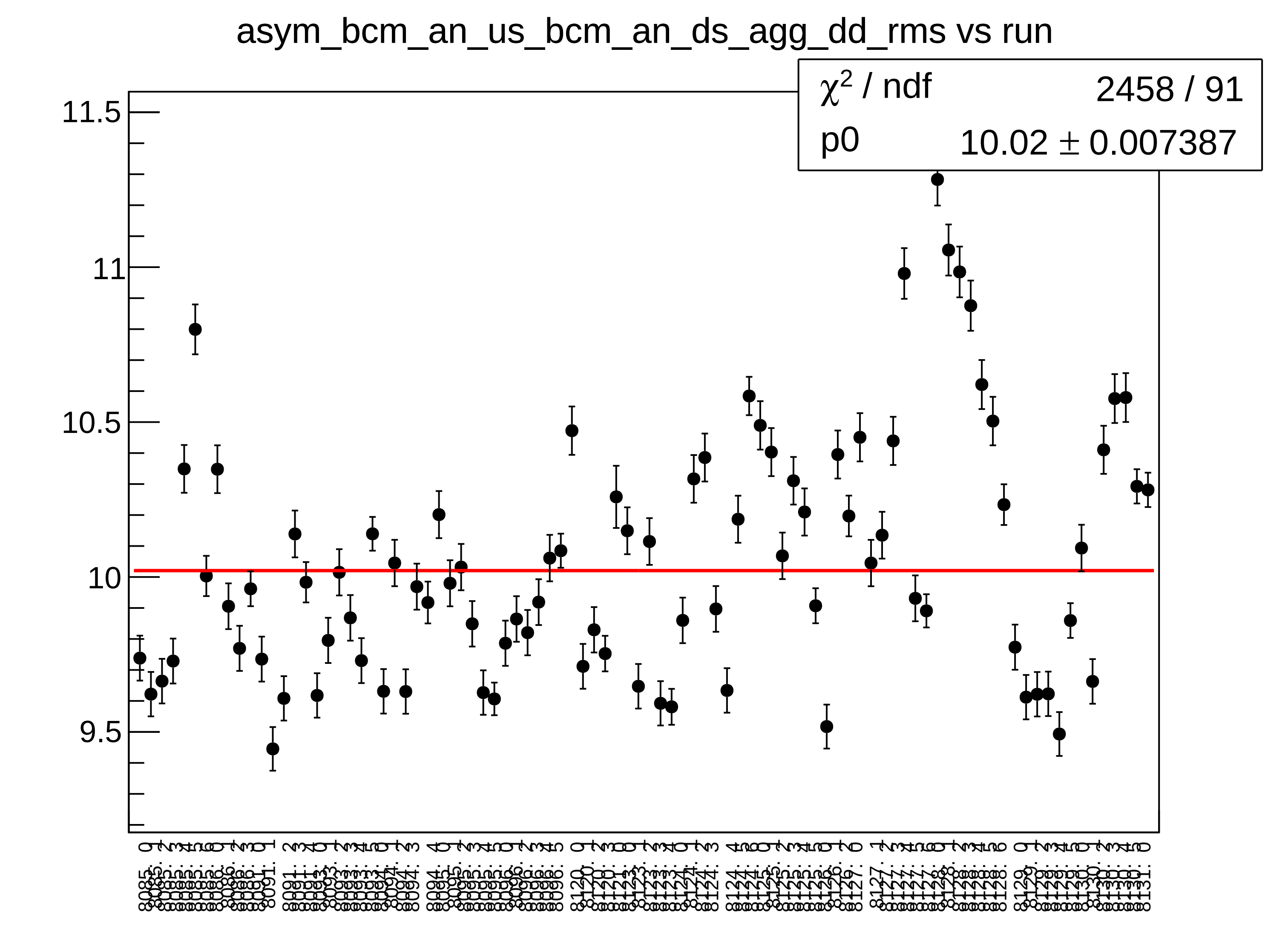
asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ2 / ndf 23.81 / 91
p0 227.5 ± 158.1
pull
Entries 92
Mean 17.48
Std Dev 64.24
pull1D
Entries 92
Mean −0.009515
Std Dev 0.5086



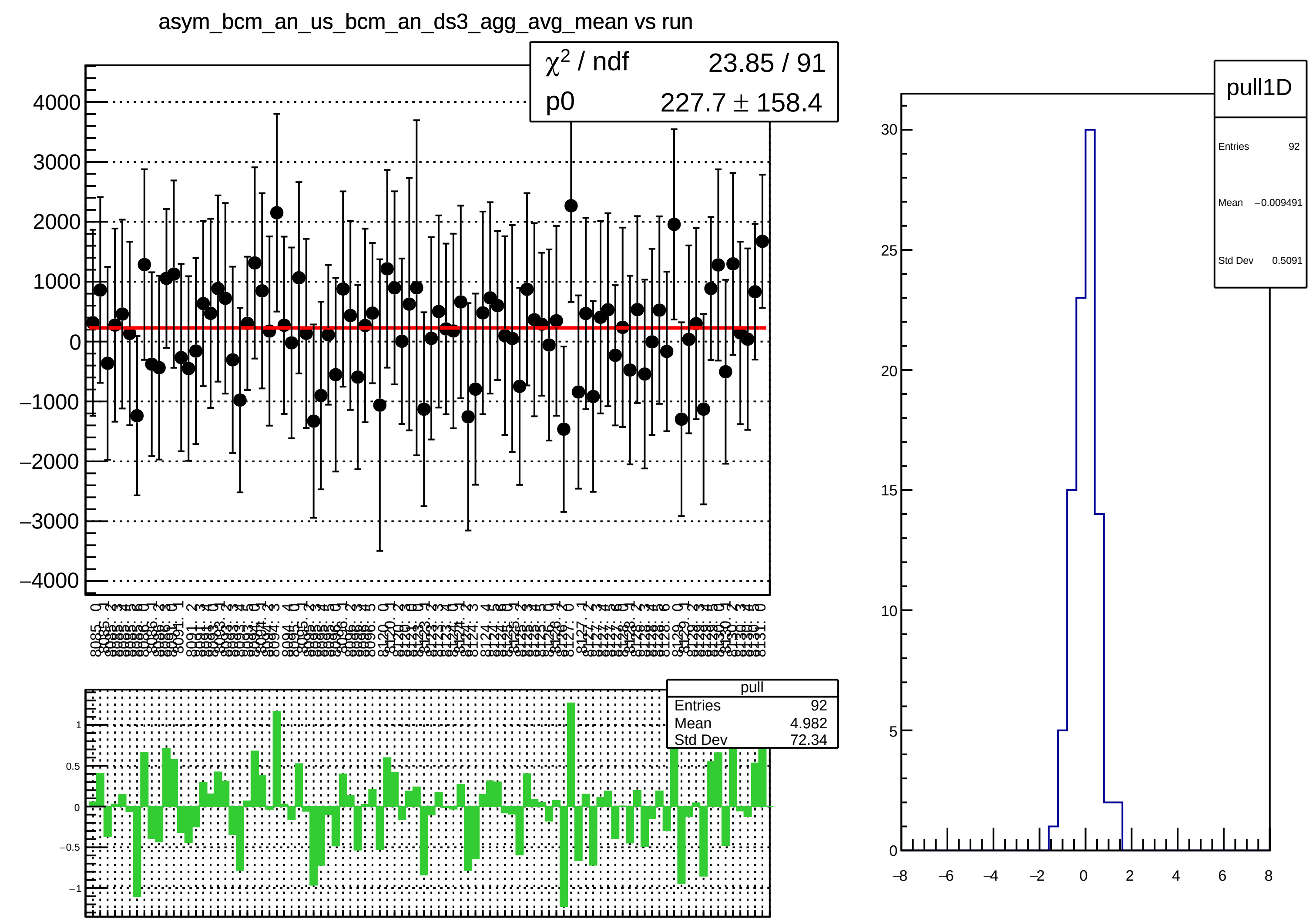
asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 7786 / 91
p0 151.4 ± 0.1118
260
240
220
200
180
160
140

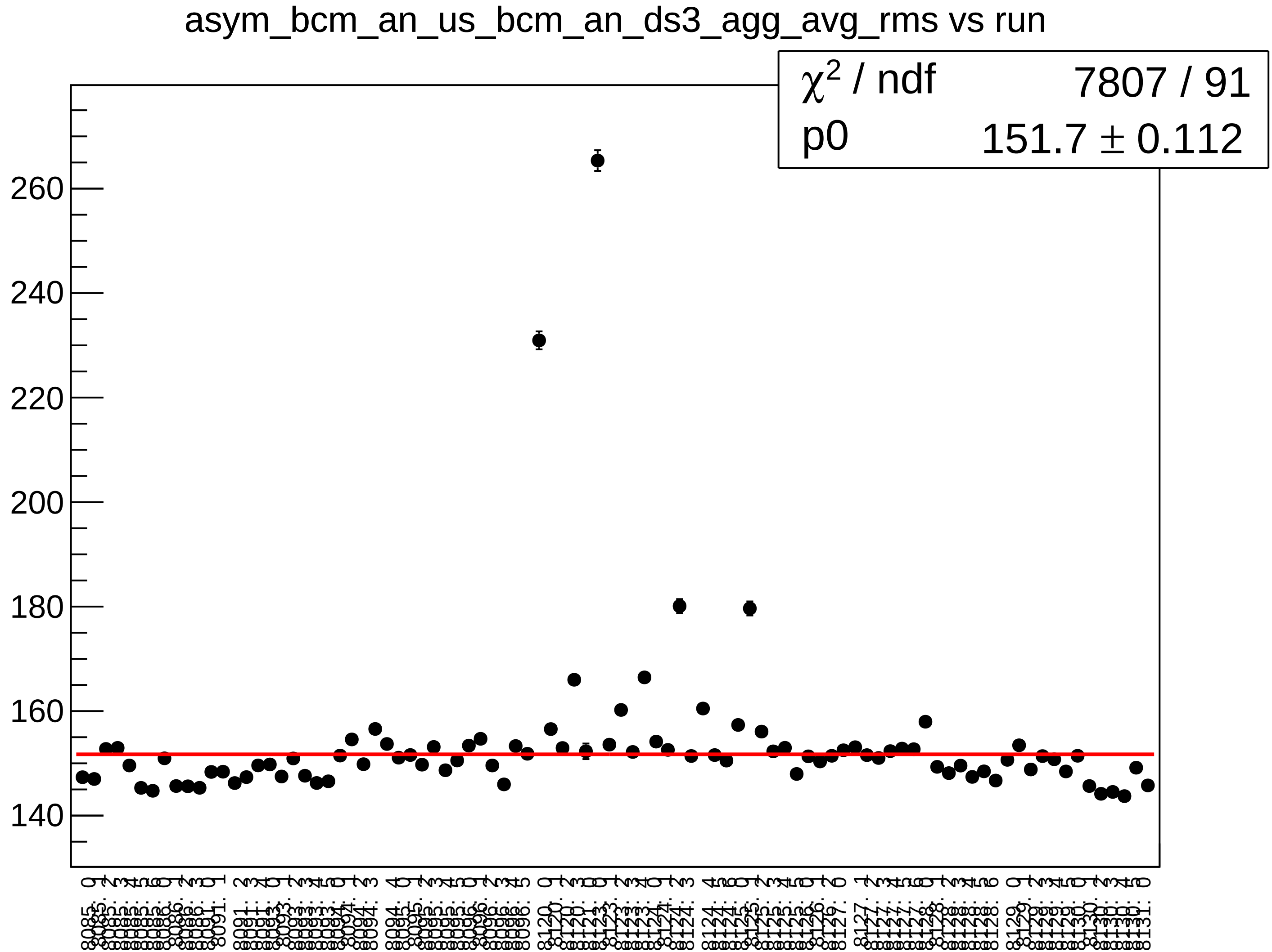


asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 104.6 / 91
p0 6.698 ± 10.45
pull
Entries 92
Mean −57.38
Std Dev 111.2
pull1D
Entries 92
Mean −0.02561
Std Dev 1.066

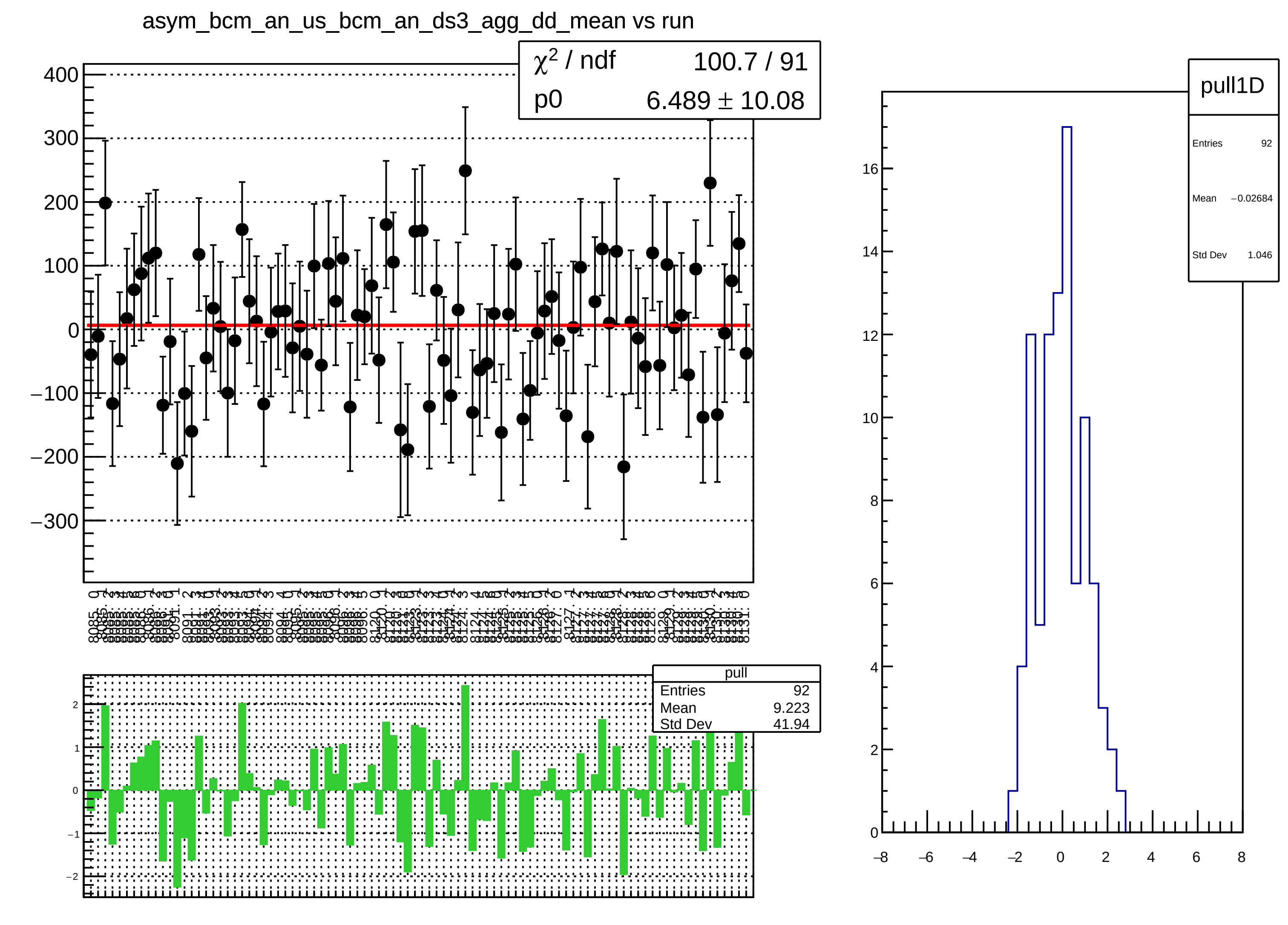


asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 2458 / 91
p0 10.02 ± 0.007387
11.5
11
10.5
10
9.5

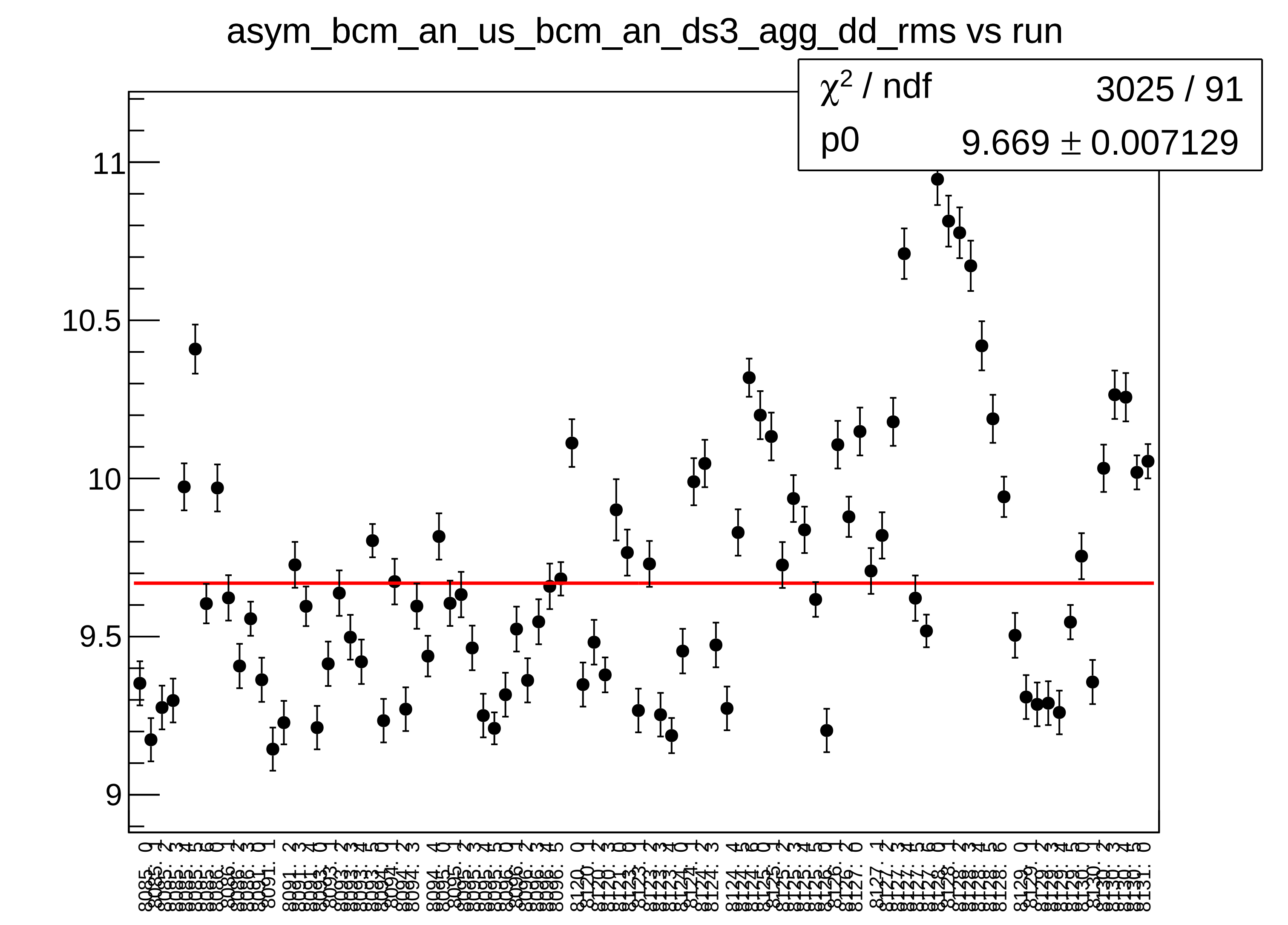

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ^2 / ndf 23.85 / 91
p0 227.7 ± 158.4
pull
Entries 92
Mean 4.982
Std Dev 72.34
pull1D
Entries 92
Mean −0.009491
Std Dev 0.5091



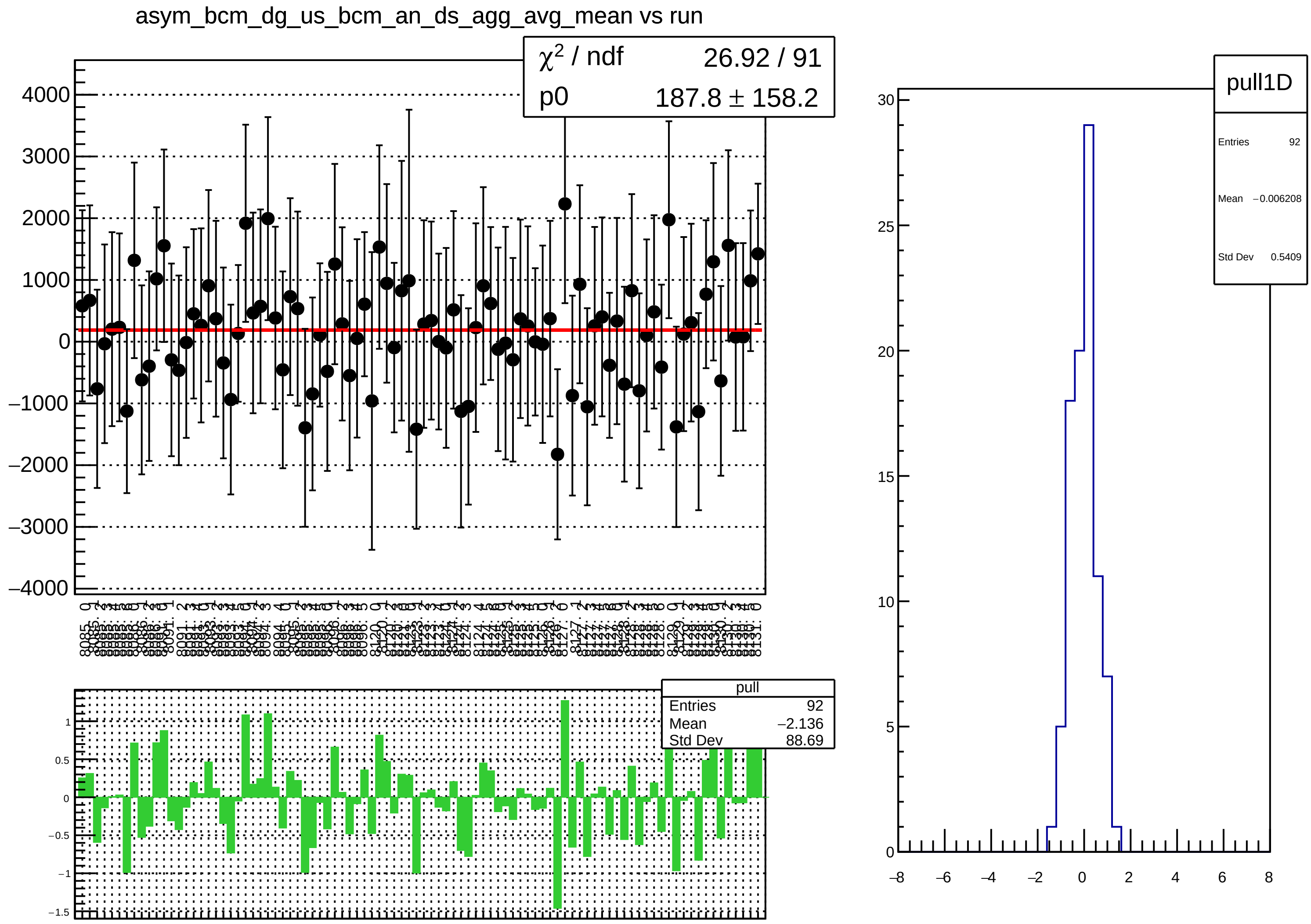
asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ^2 / ndf 7807 / 91
p0 151.7 ± 0.112
260
240
220
200
180
160
140



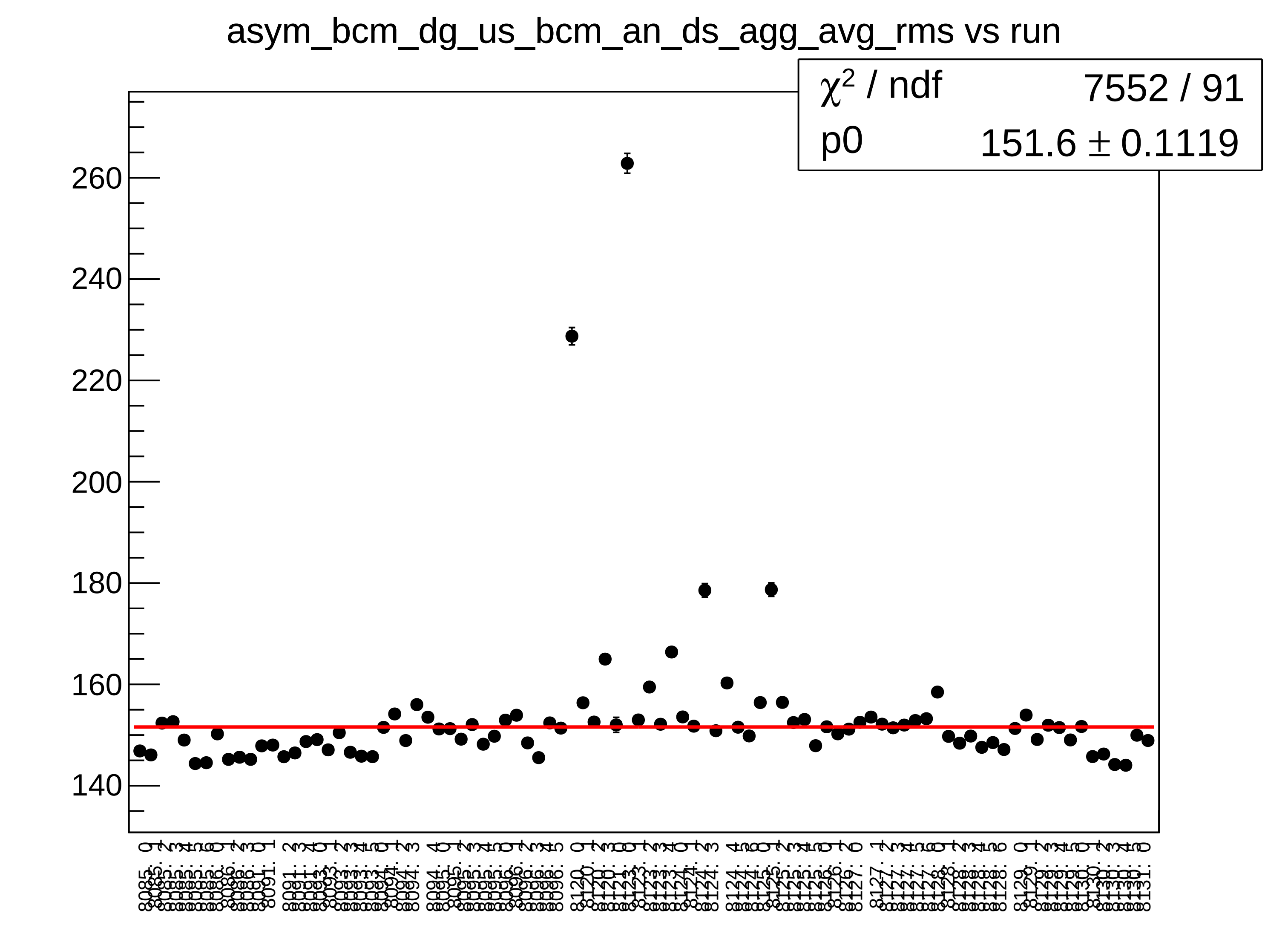
asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 100.7 / 91
p0 6.489 ± 10.08
pull
Entries 92
Mean 9.223
Std Dev 41.94
pull1D
Entries 92
Mean −0.02684
Std Dev 1.046



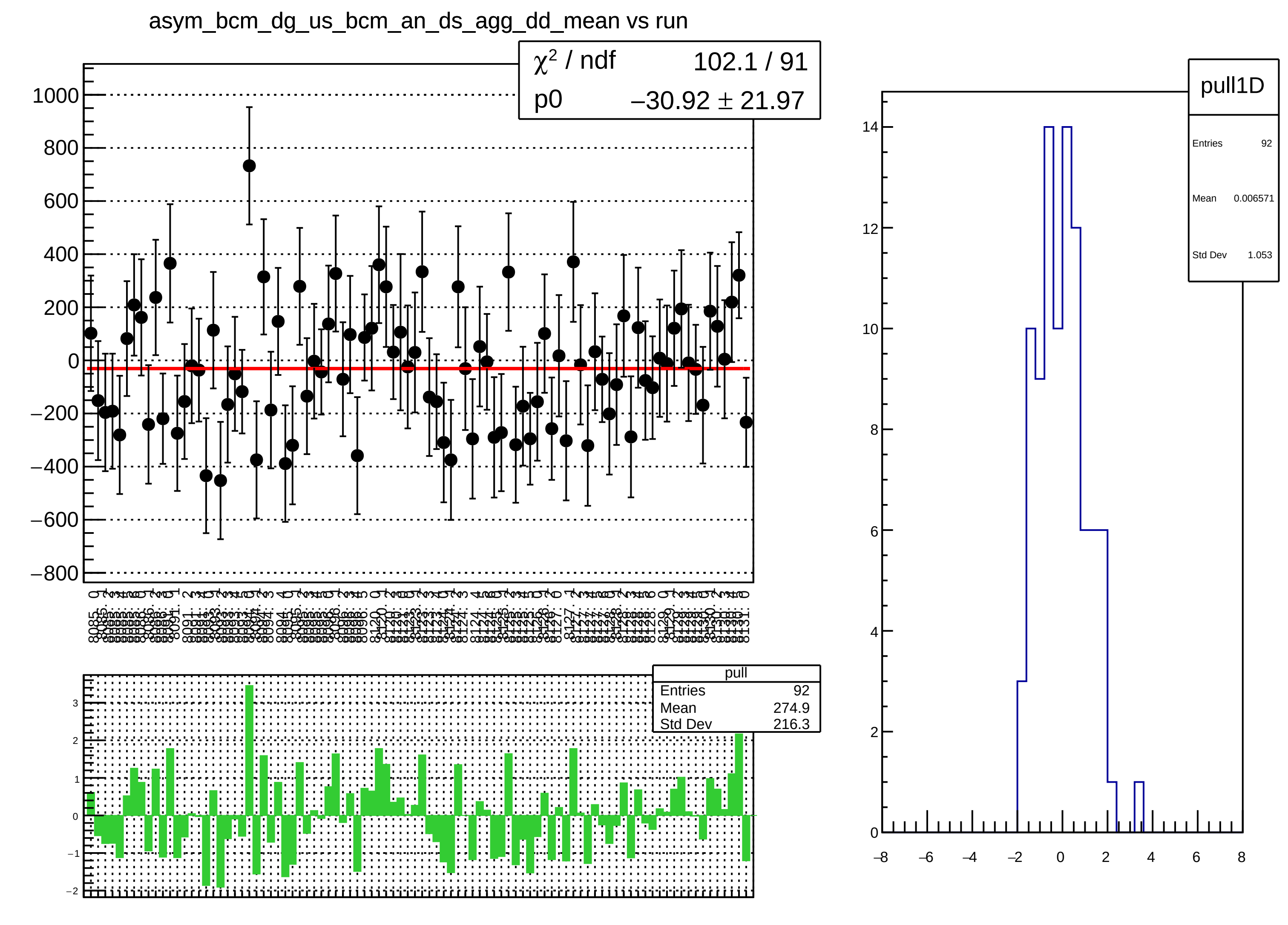
asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 3025 / 91
p0 9.669 ± 0.007129
11
10.5
10
9.5
9



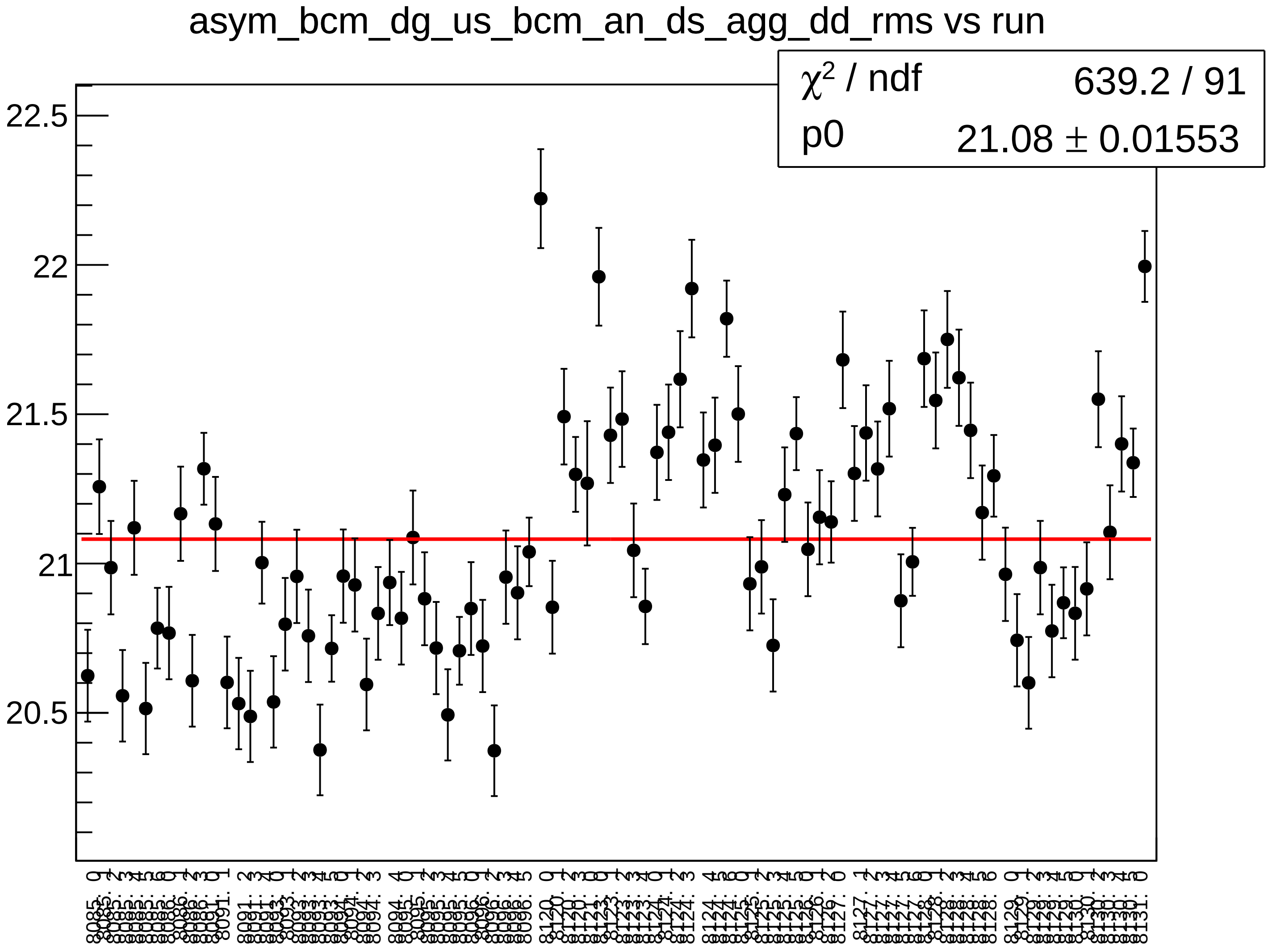
asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 26.92 / 91
p0 187.8 ± 158.2
pull
Entries 92
Mean −2.136
Std Dev 88.69
pull1D
Entries 92
Mean −0.006208
Std Dev 0.5409



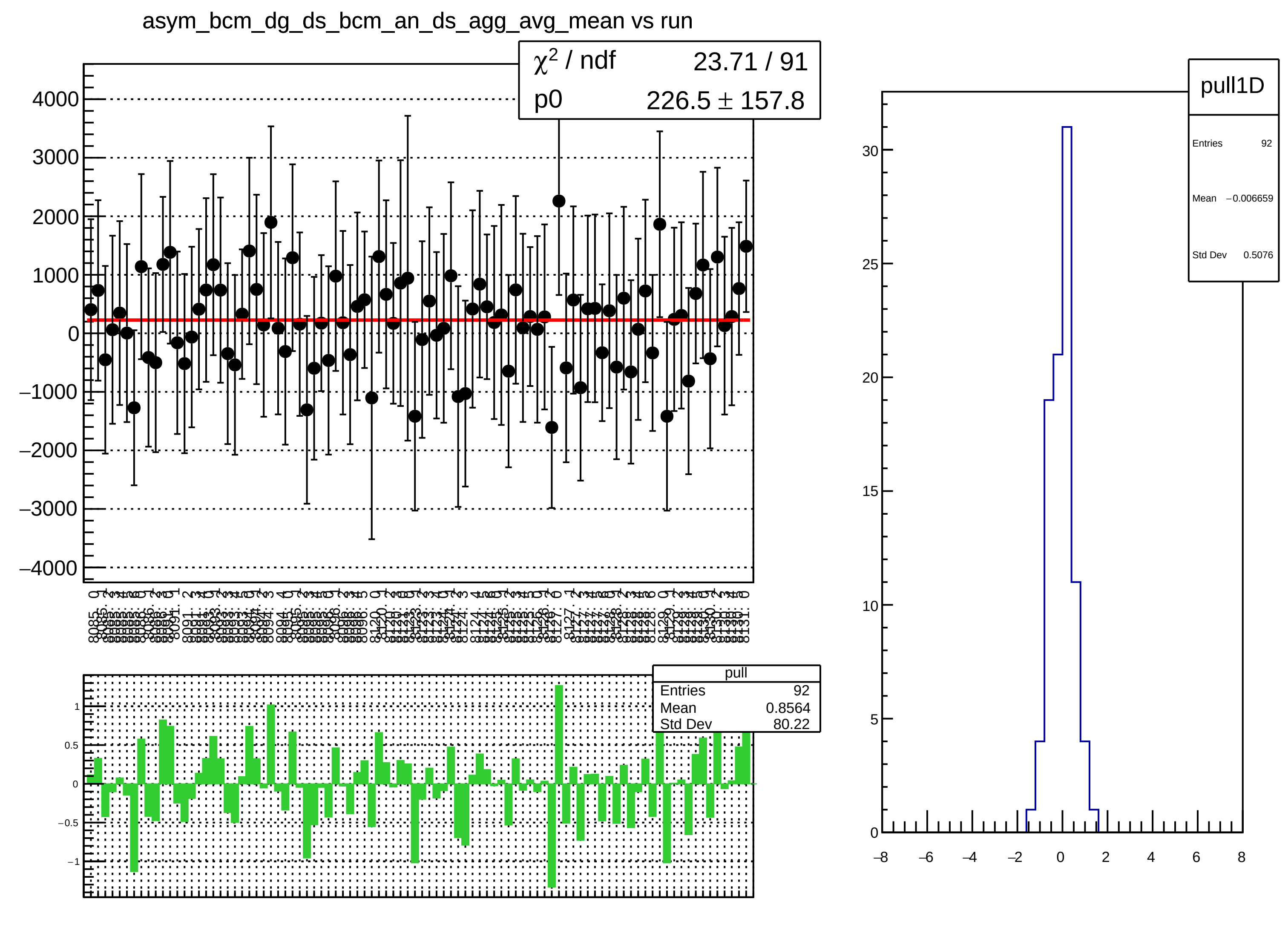
asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 7552 / 91
p0 151.6 ± 0.1119
260
240
220
200
180
160
140



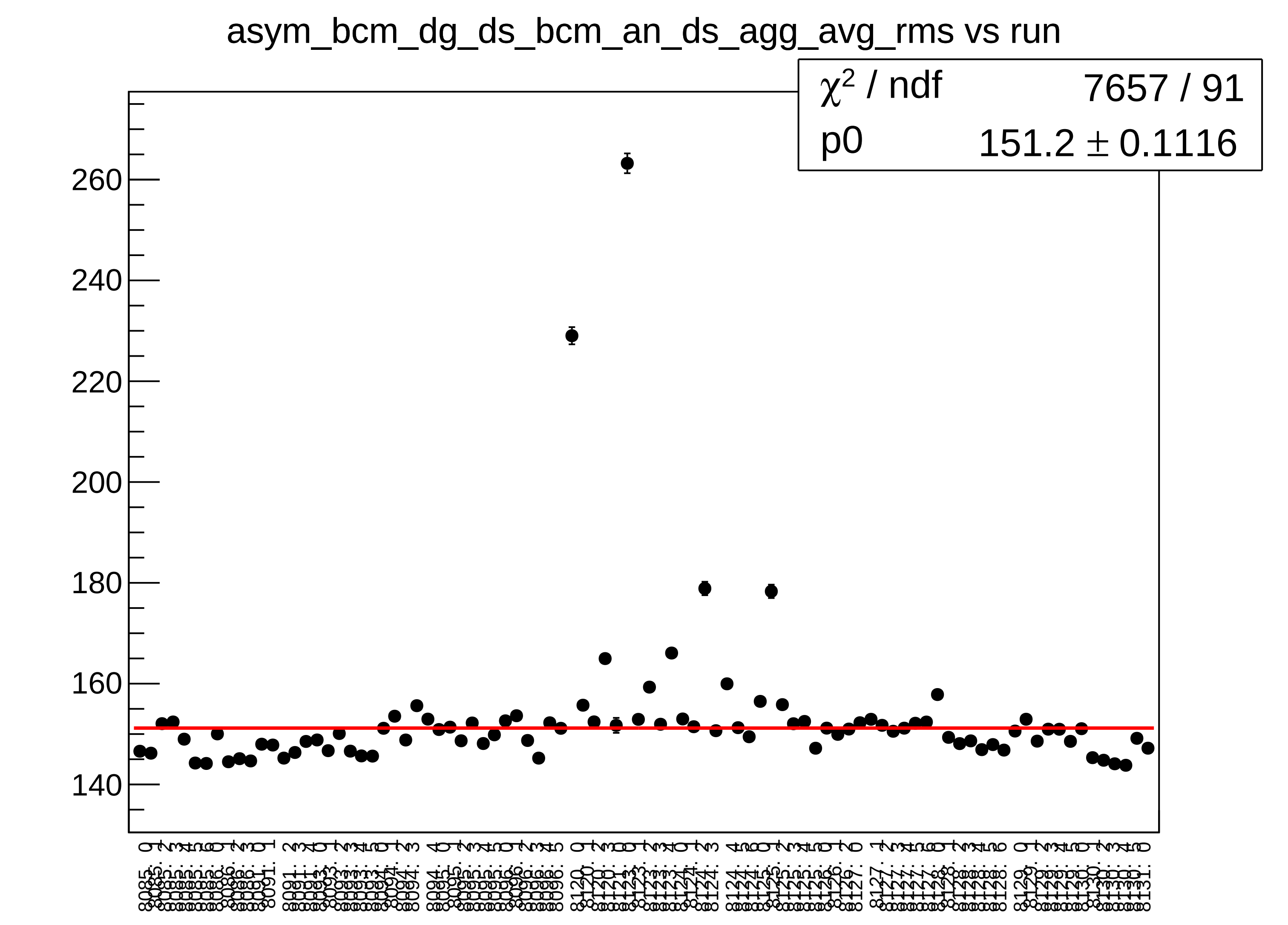
asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 102.1 / 91
p0 −30.92 ± 21.97
pull
Entries 92
Mean 274.9
Std Dev 216.3
pull1D
Entries 92
Mean 0.006571
Std Dev 1.053



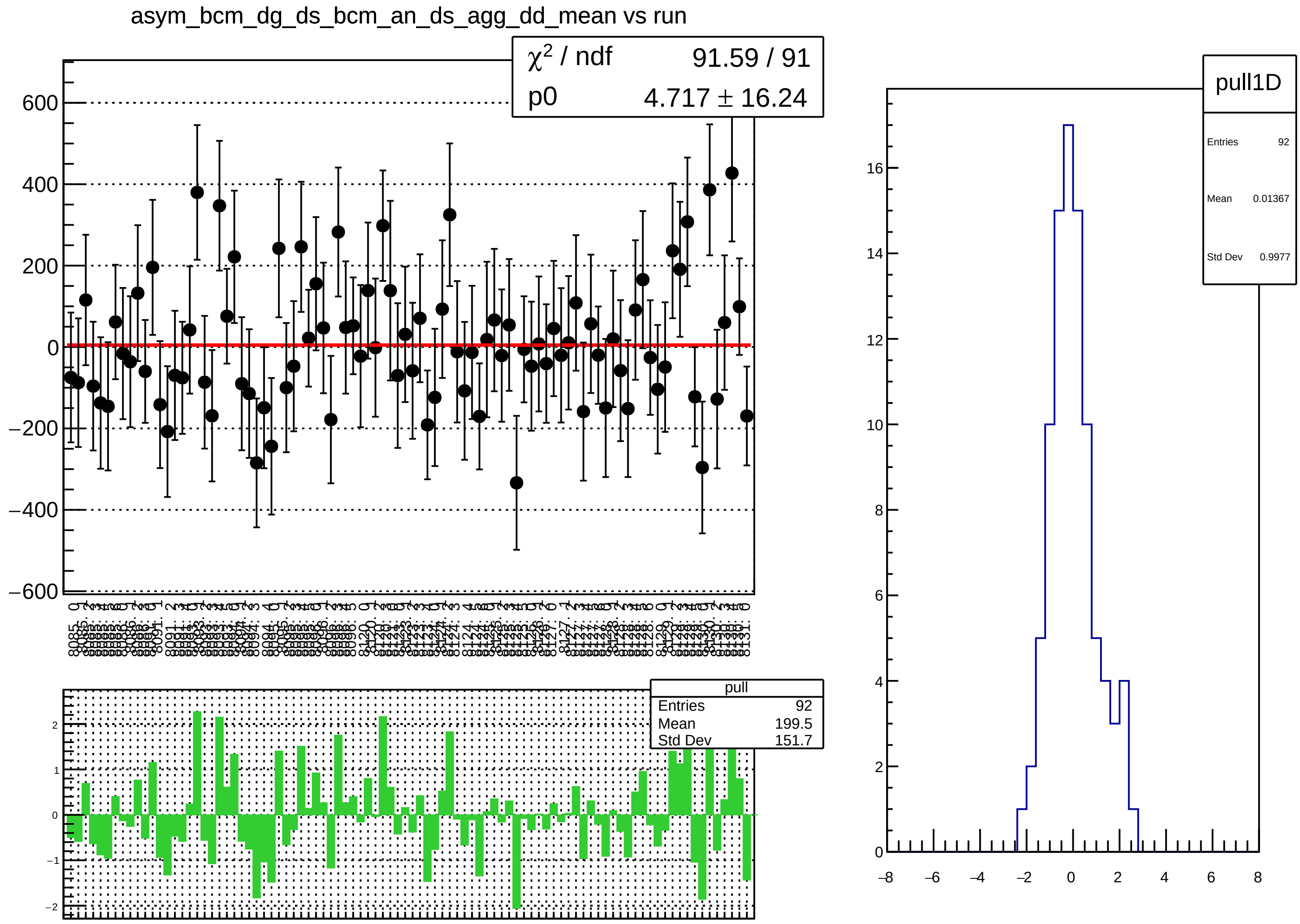
asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 639.2 / 91
p0 21.08 ± 0.01553
22.5
22
21.5
21
20.5



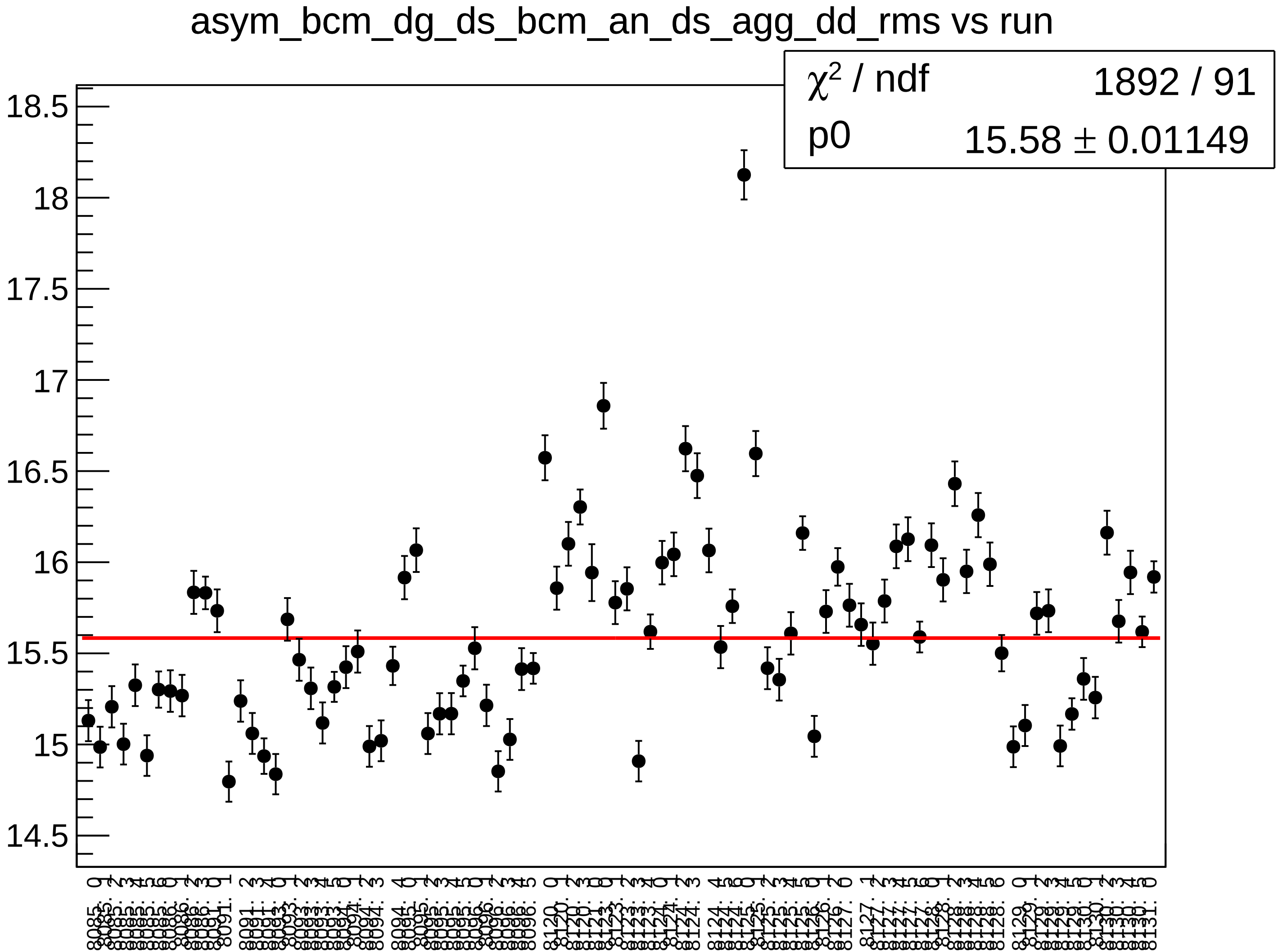
asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ^2 / ndf 23.71 / 91
p0 226.5 ± 157.8
pull
Entries 92
Mean 0.8564
Std Dev 80.22
pull1D
Entries 92
Mean −0.006659
Std Dev 0.5076



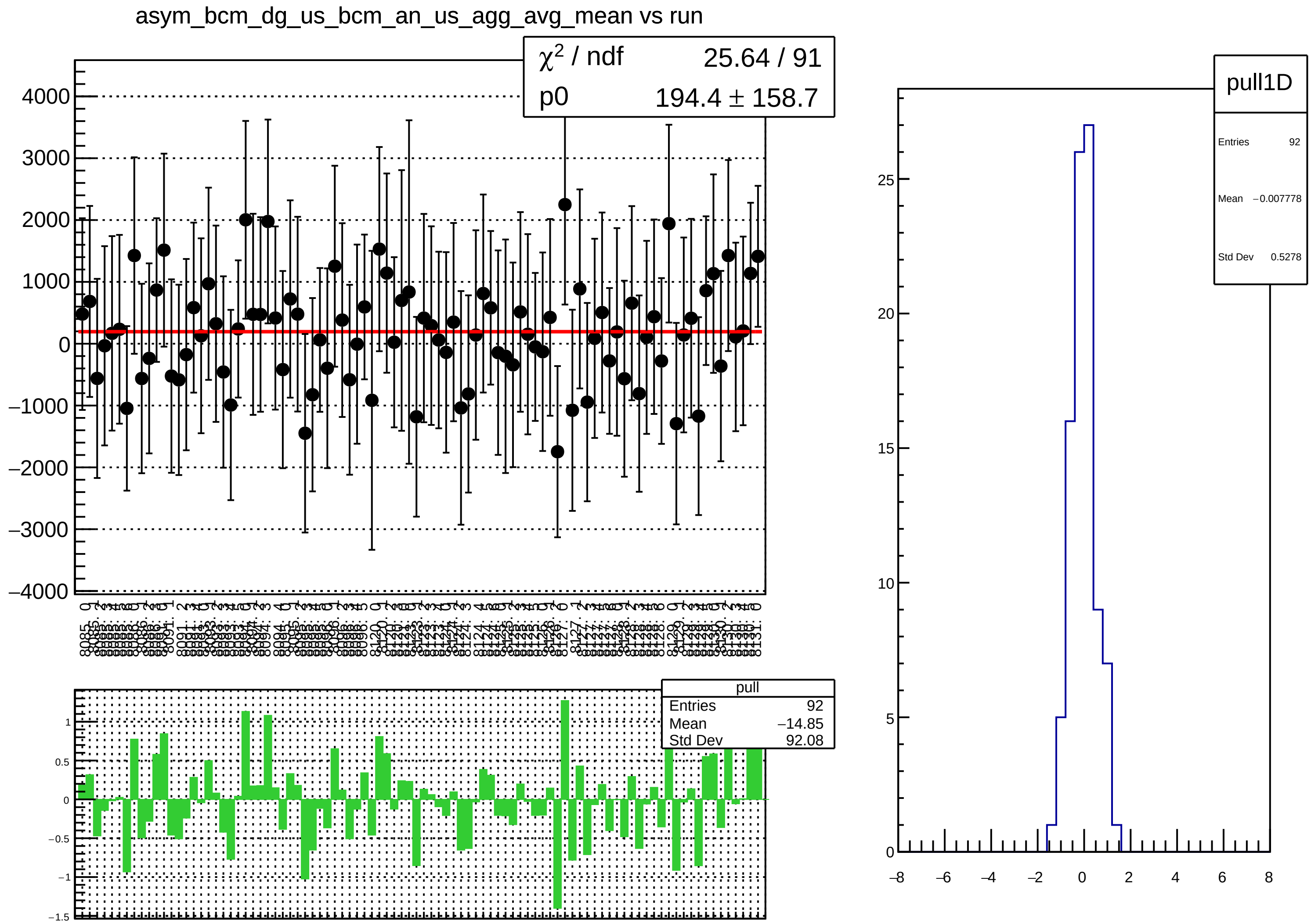
asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 7657 / 91
p0 151.2 ± 0.1116
260
240
220
200
180
160
140



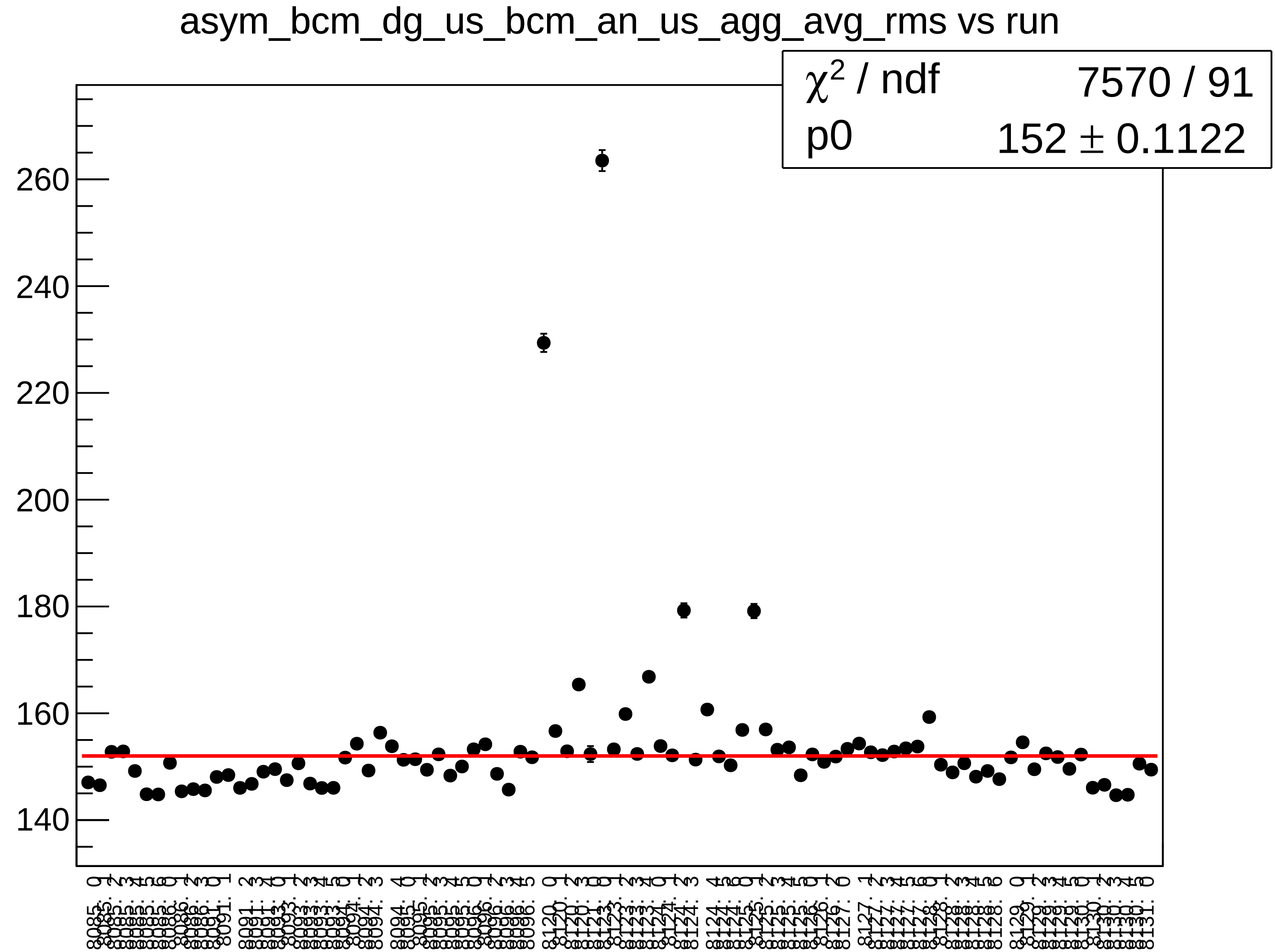
asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ^2 / ndf 91.59 / 91
p0 4.717 ± 16.24
pull
Entries 92
Mean 199.5
Std Dev 151.7
pull1D
Entries 92
Mean 0.01367
Std Dev 0.9977

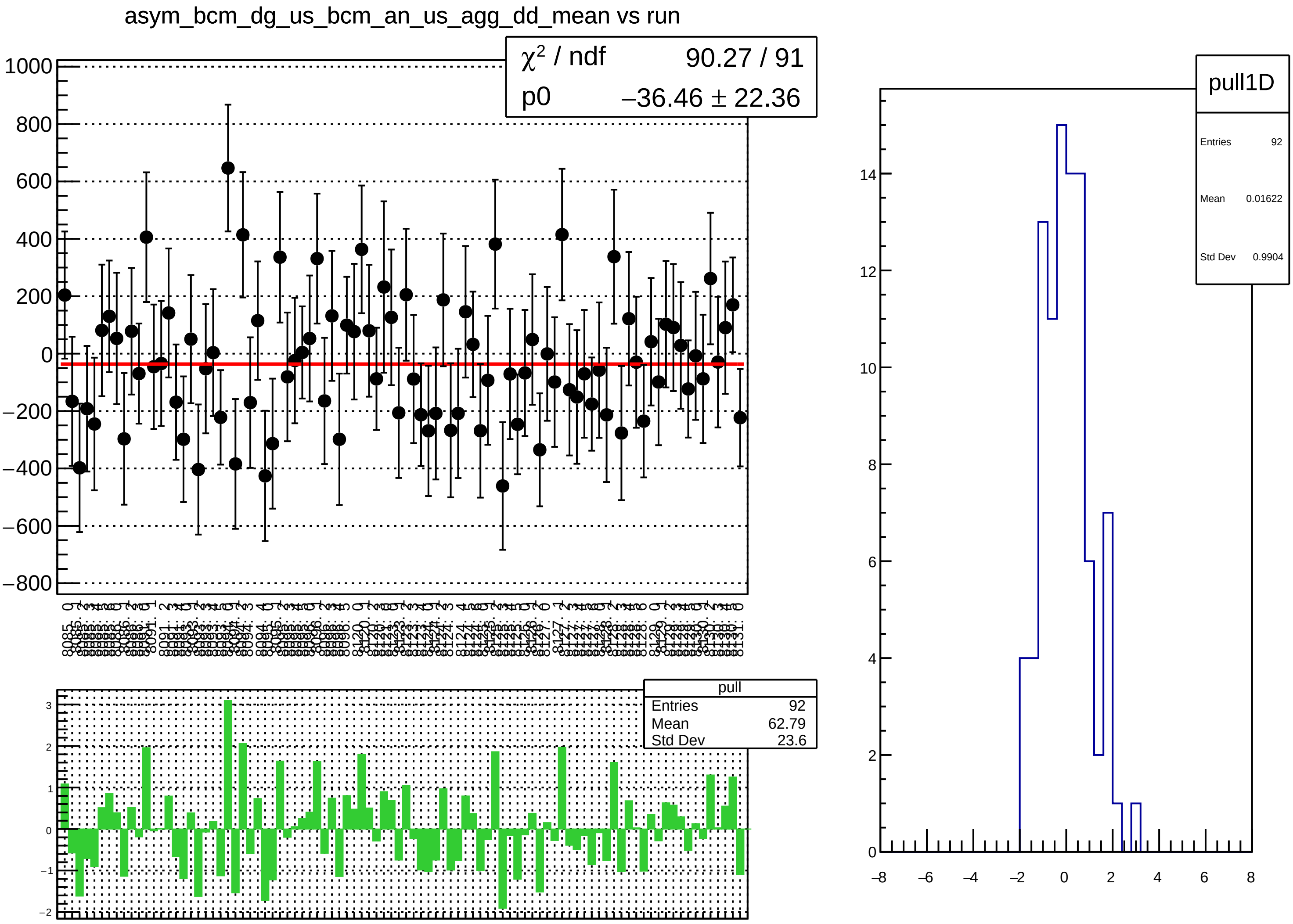


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 1892 / 91
p0 15.58 ± 0.01149
18.5
18
17.5
17
16.5
16
15.5
15
14.5

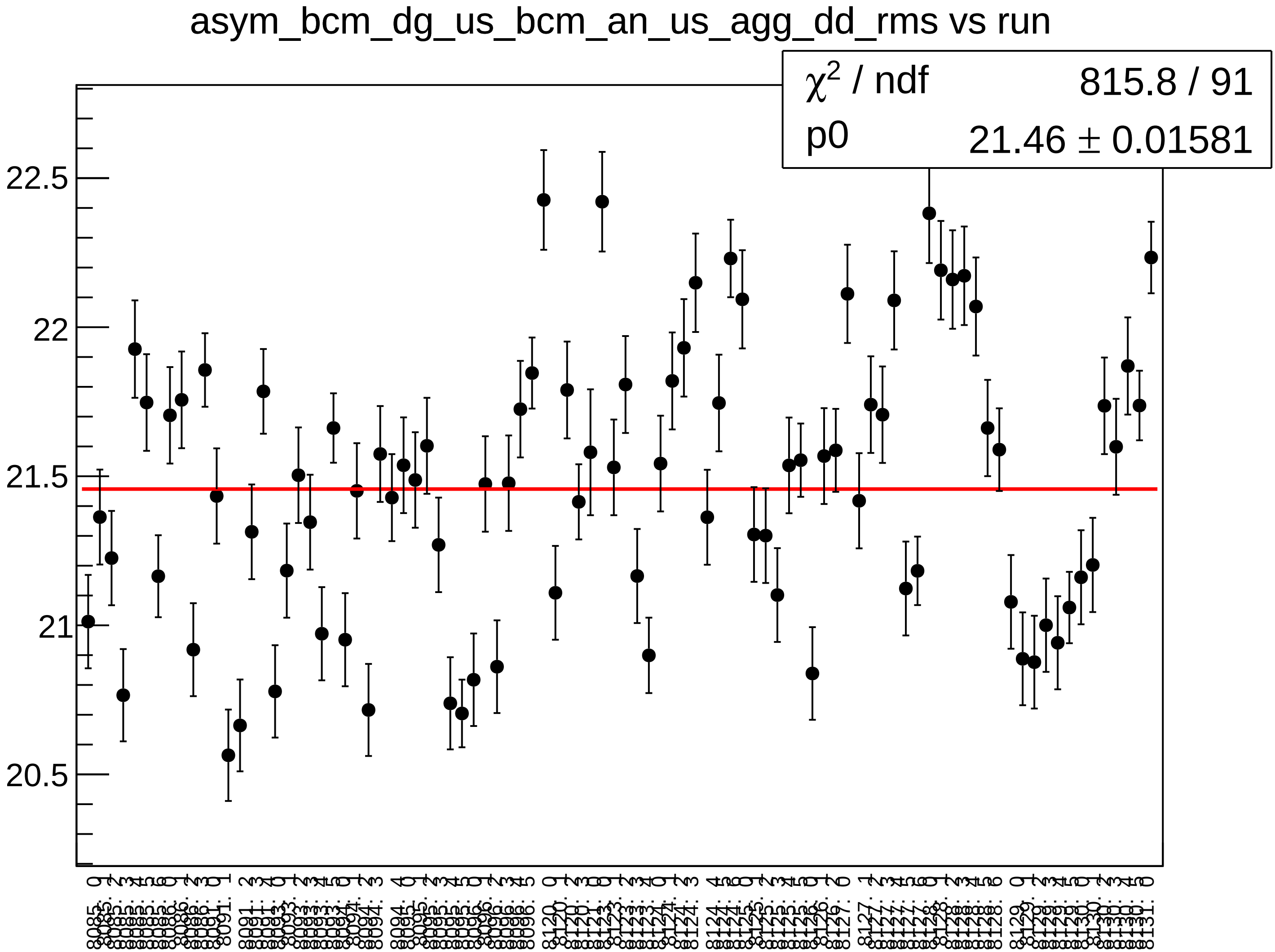


asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ^2 / ndf 25.64 / 91
p0 194.4 ± 158.7
pull
Entries 92
Mean −14.85
Std Dev 92.08
pull1D
Entries 92
Mean −0.007778
Std Dev 0.5278

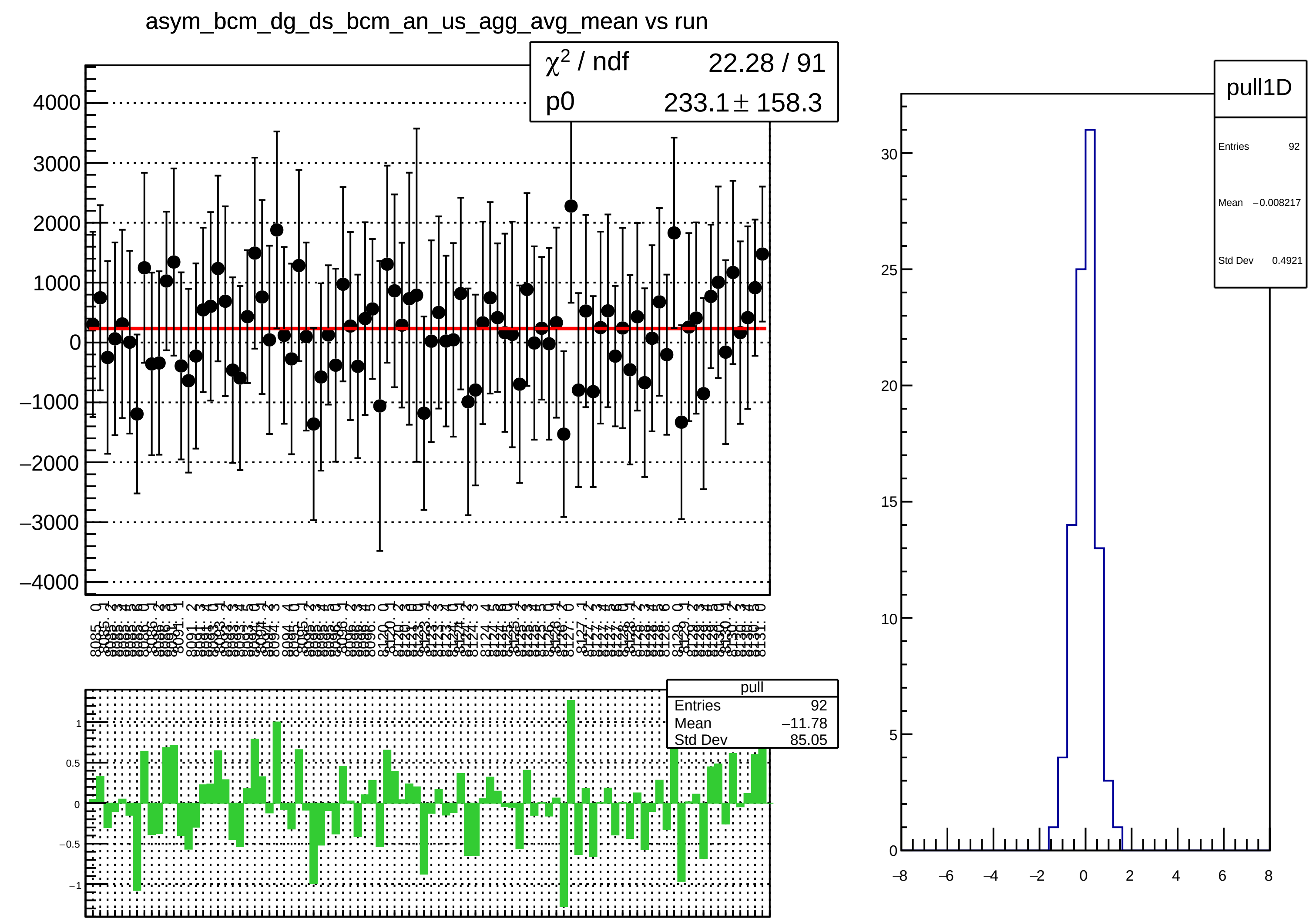

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 7570 / 91
p0 152 ± 0.1122
260
240
220
200
180
160
140



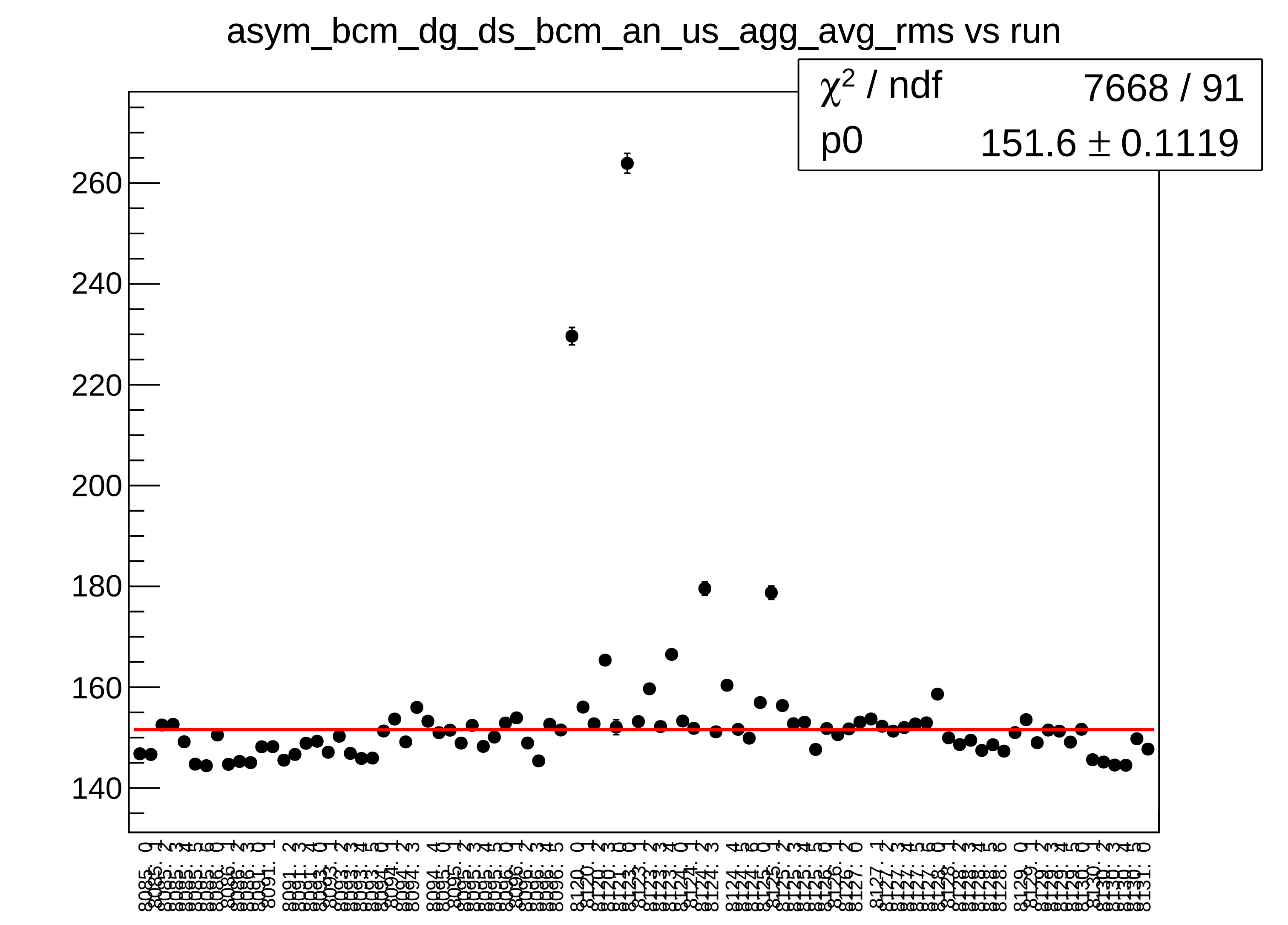
asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 90.27 / 91
p0 −36.46 ± 22.36
pull
Entries 92
Mean 62.79
Std Dev 23.6
pull1D
Entries 92
Mean 0.01622
Std Dev 0.9904



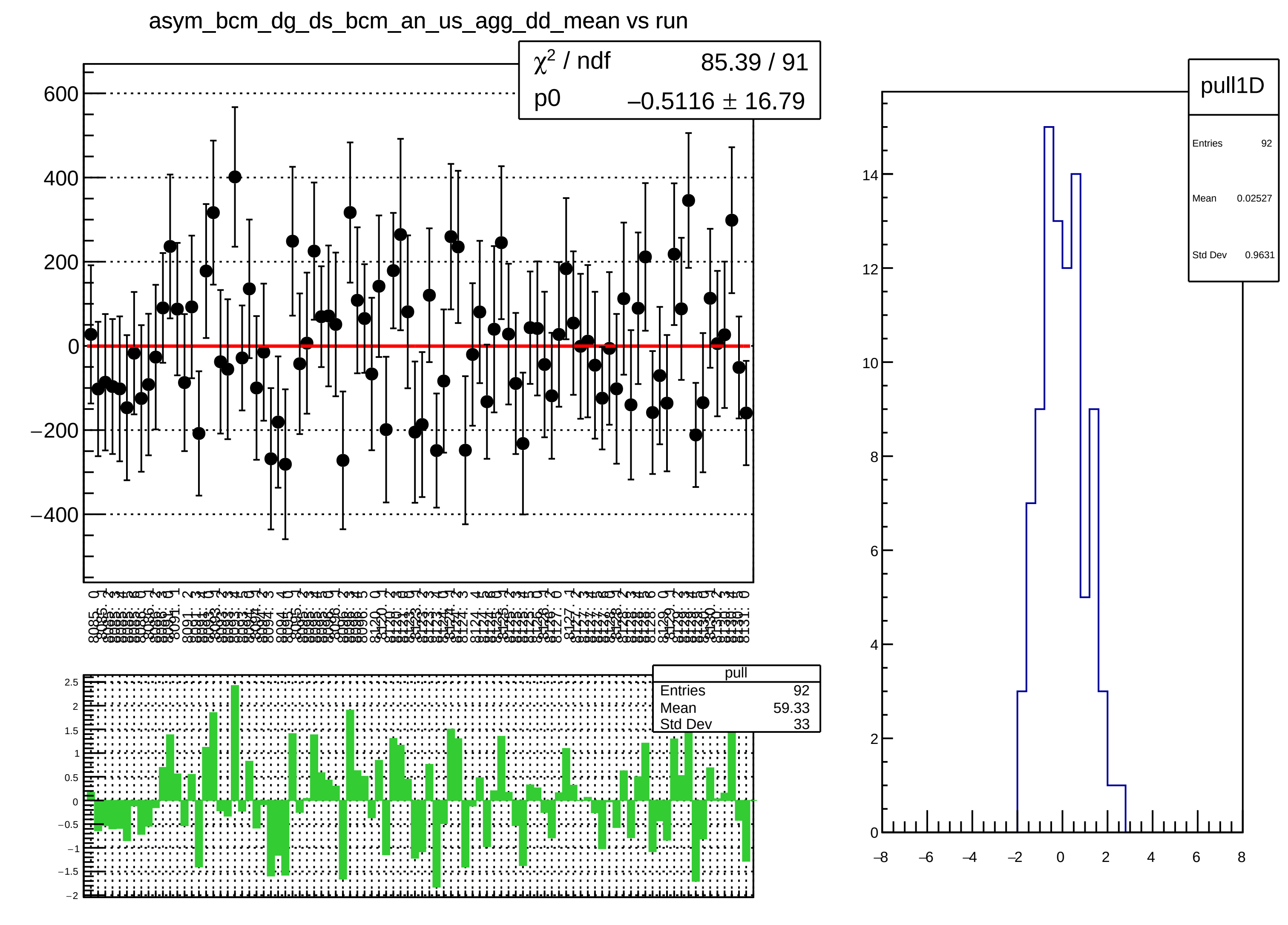
asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 815.8 / 91
p0 21.46 ± 0.01581
22.5
22
21.5
21
20.5

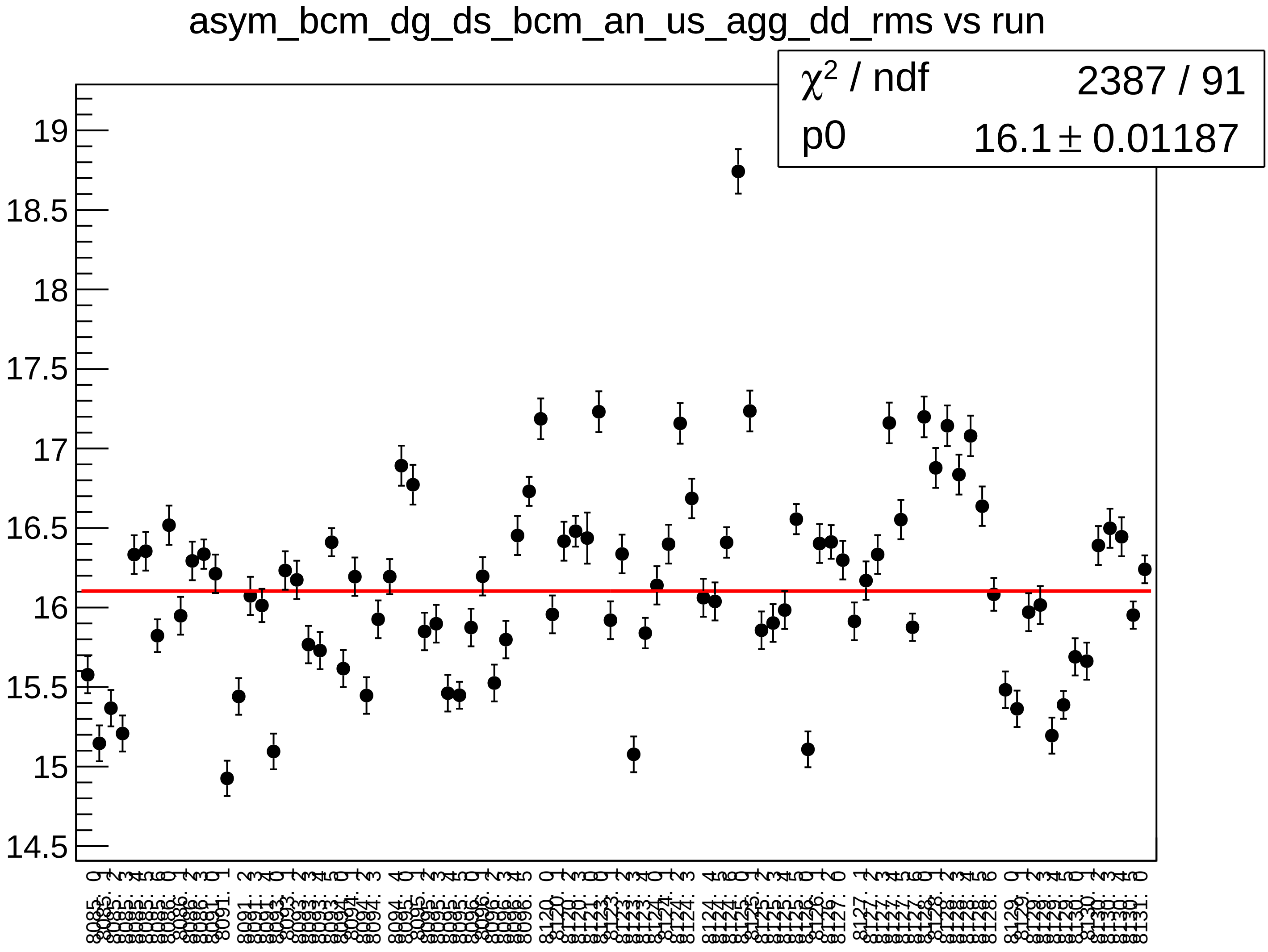


asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ2 / ndf 22.28 / 91
p0 233.1 ± 158.3
pull
Entries 92
Mean −11.78
Std Dev 85.05
pull1D
Entries 92
Mean −0.008217
Std Dev 0.4921

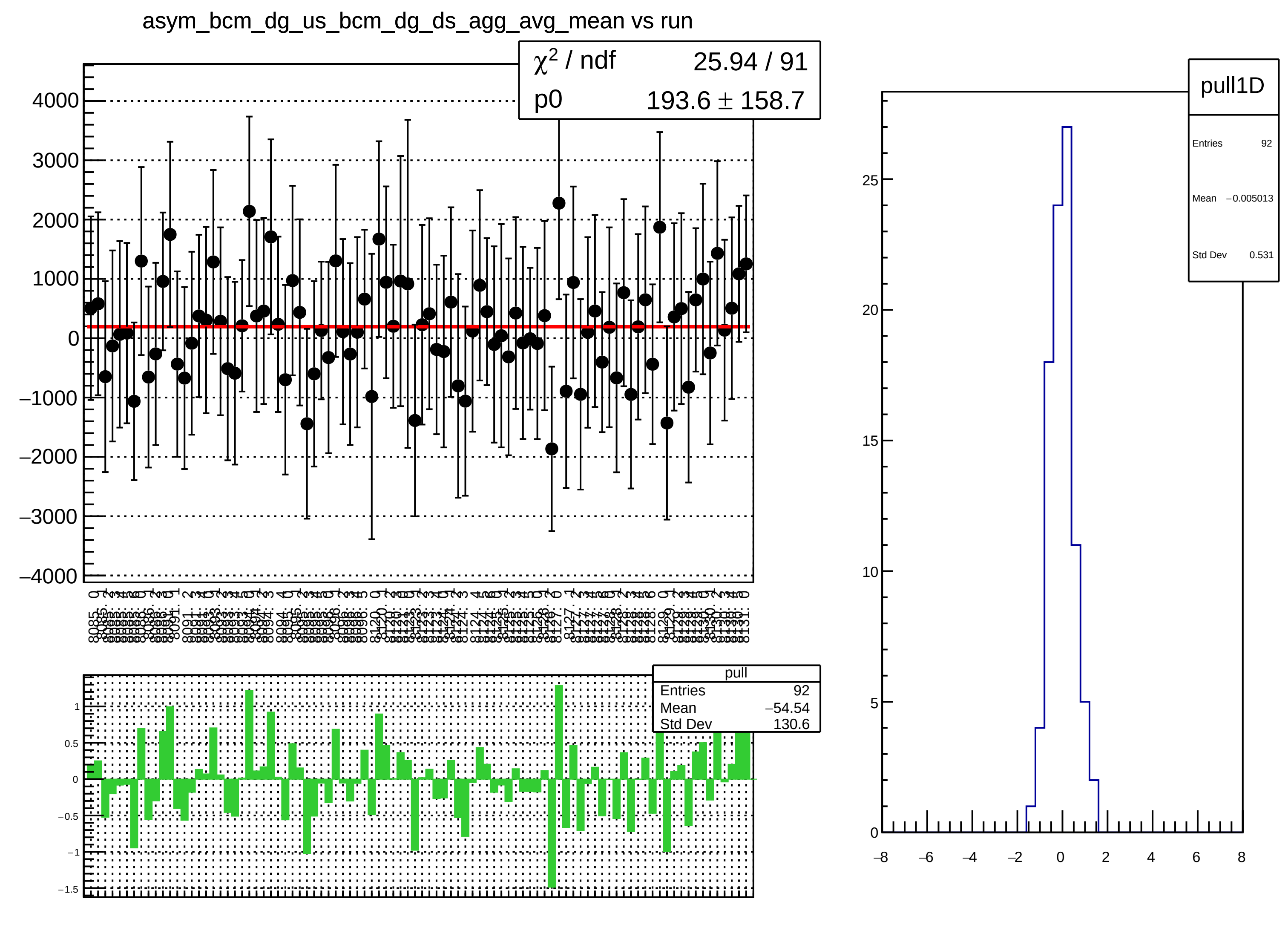


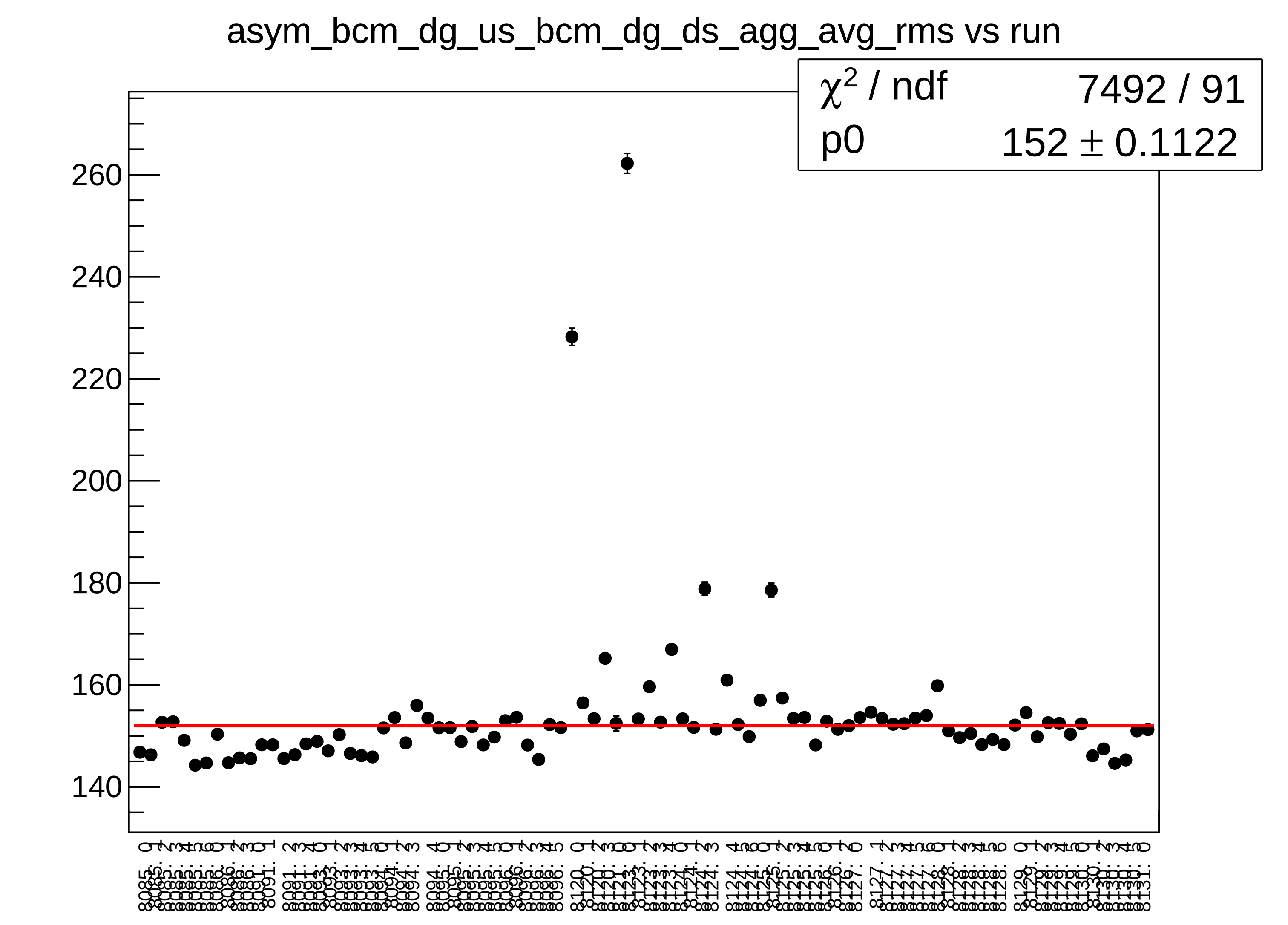
asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 7668 / 91
p0 151.6 ± 0.1119
260
240
220
200
180
160
140

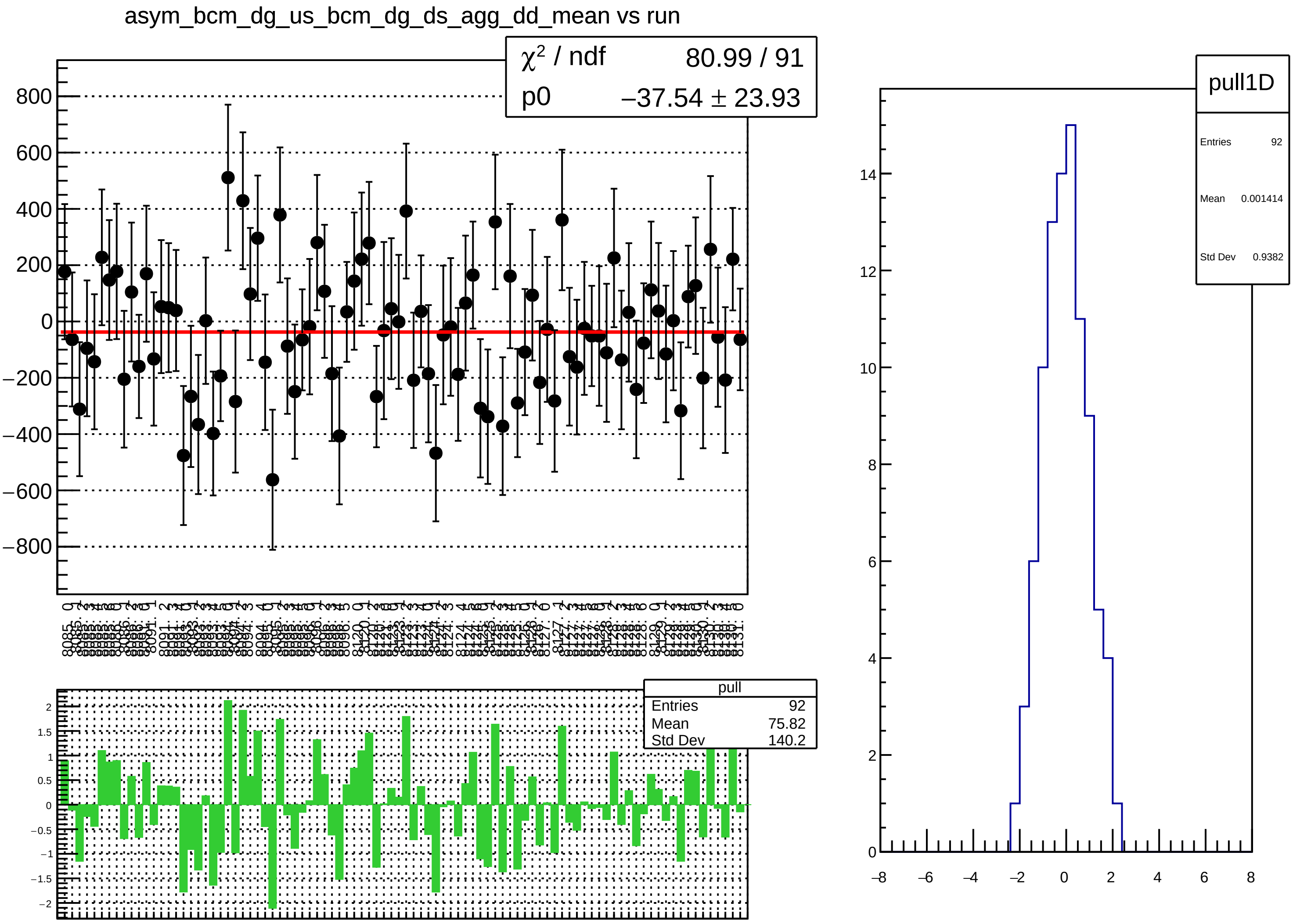

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 85.39 / 91
p0 −0.5116 ± 16.79
pull
Entries 92
Mean 59.33
Std Dev 33
pull1D
Entries 92
Mean 0.02527
Std Dev 0.9631



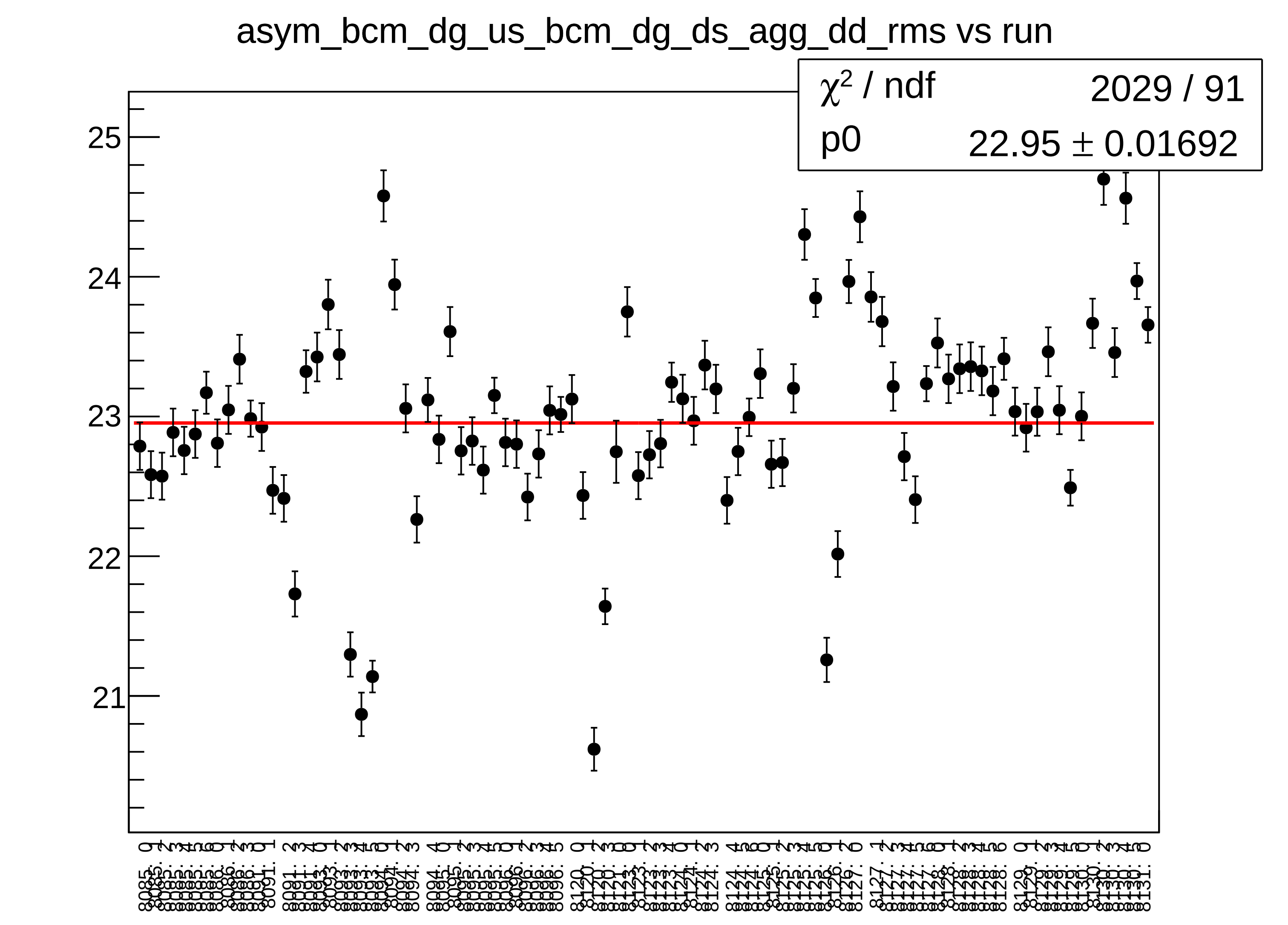
asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 2387 / 91
p0 16.1 ± 0.01187
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5


asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ^2 / ndf 25.94 / 91
p0 193.6 ± 158.7
pull
Entries 92
Mean −54.54
Std Dev 130.6
pull1D
Entries 92
Mean −0.005013
Std Dev 0.531

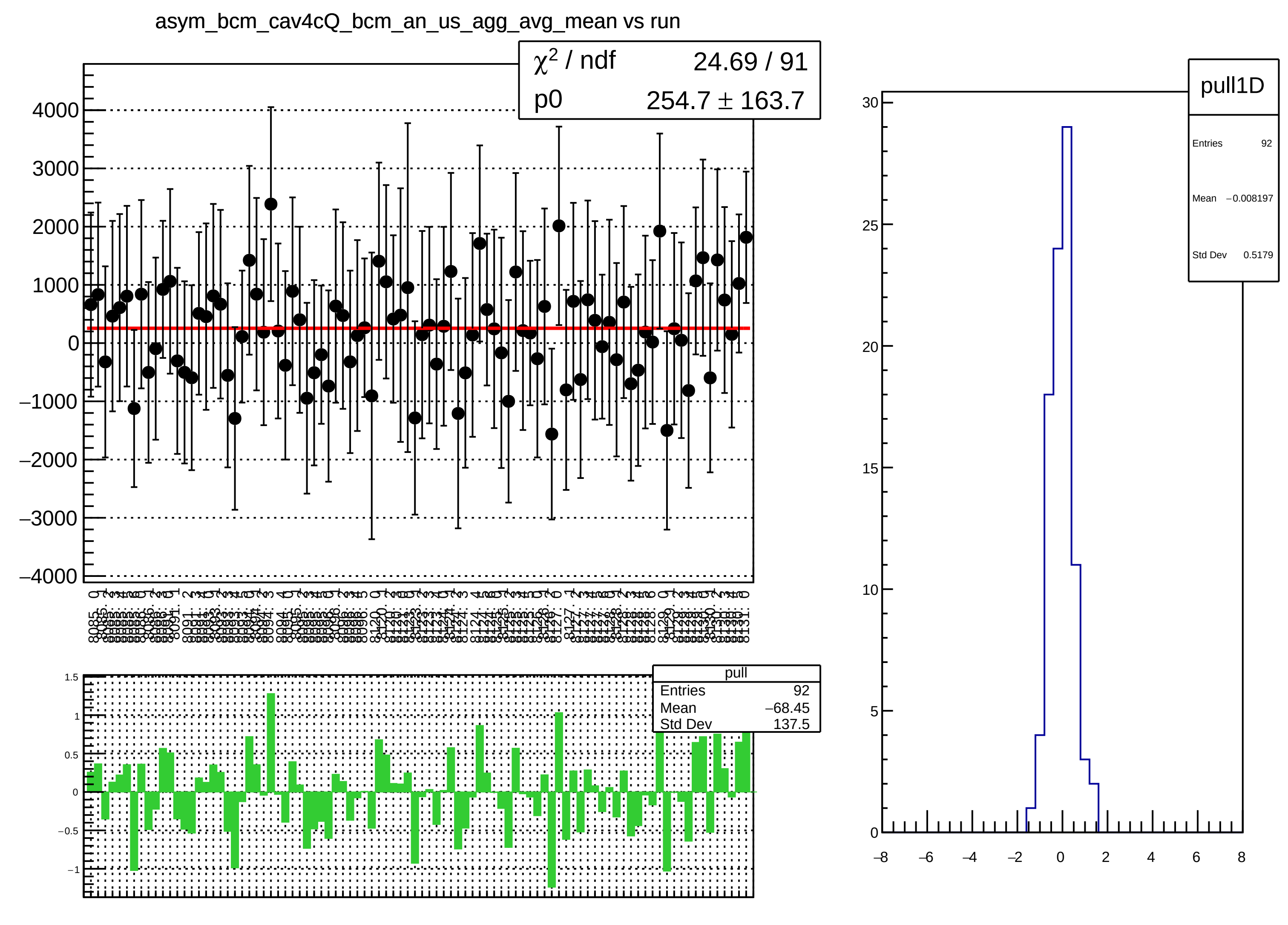

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ2 / ndf 7492 / 91
p0 152 ± 0.1122



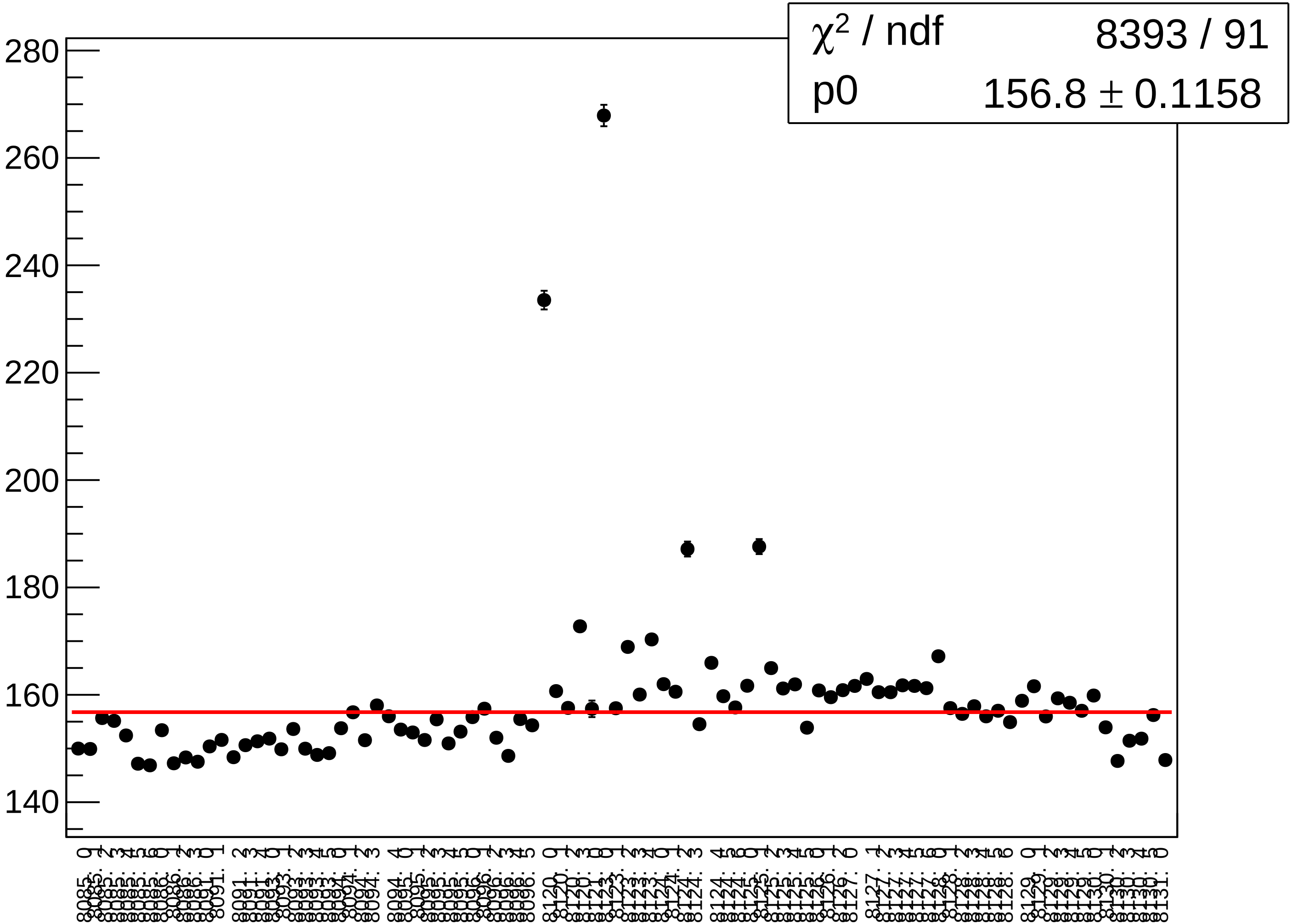
asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ2 / ndf 80.99 / 91
p0 −37.54 ± 23.93
pull
Entries 92
Mean 75.82
Std Dev 140.2
pull1D
Entries 92
Mean 0.001414
Std Dev 0.9382

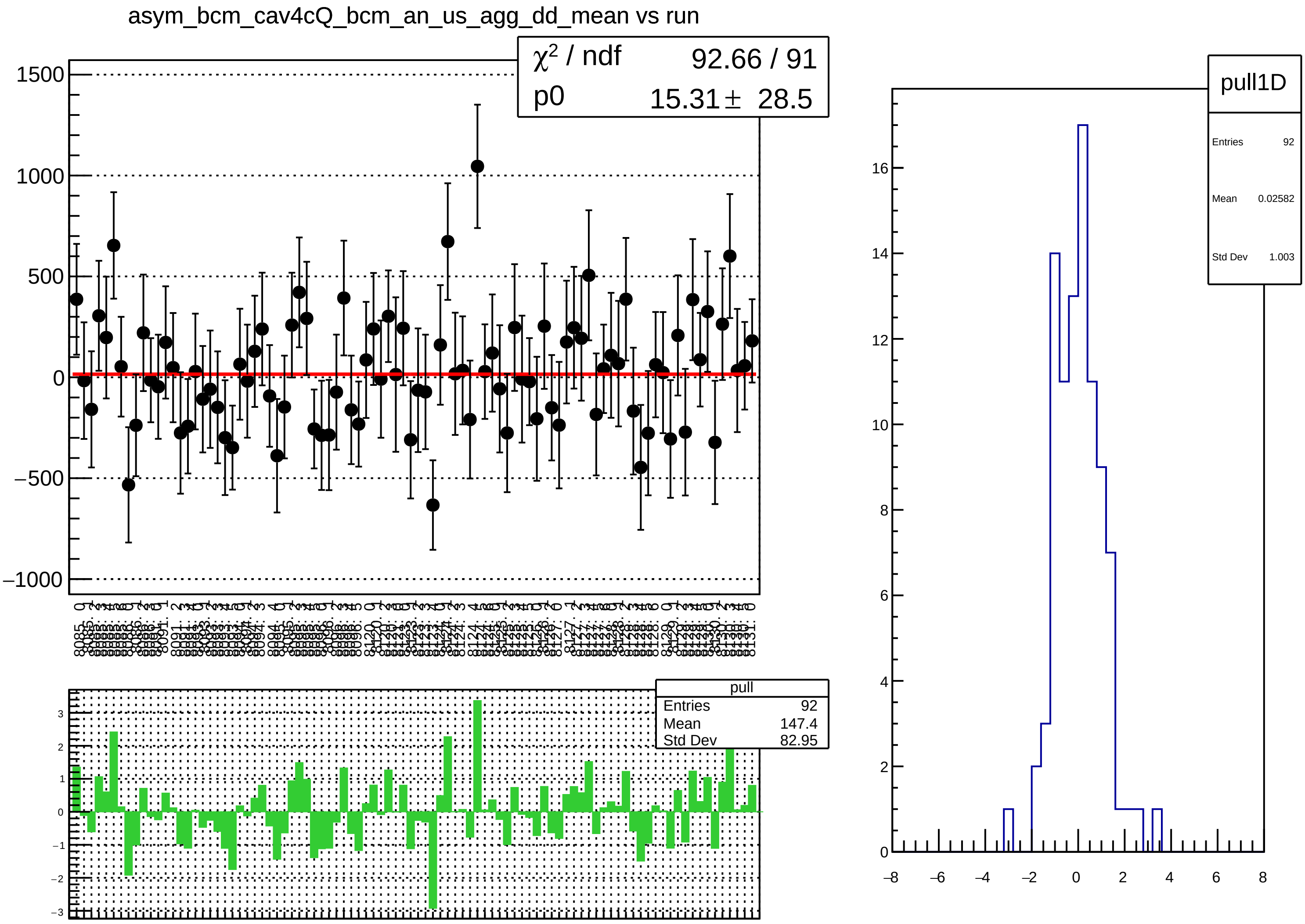


asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ2 / ndf 2029 / 91
p0 22.95 ± 0.01692
25
24
23
22
21

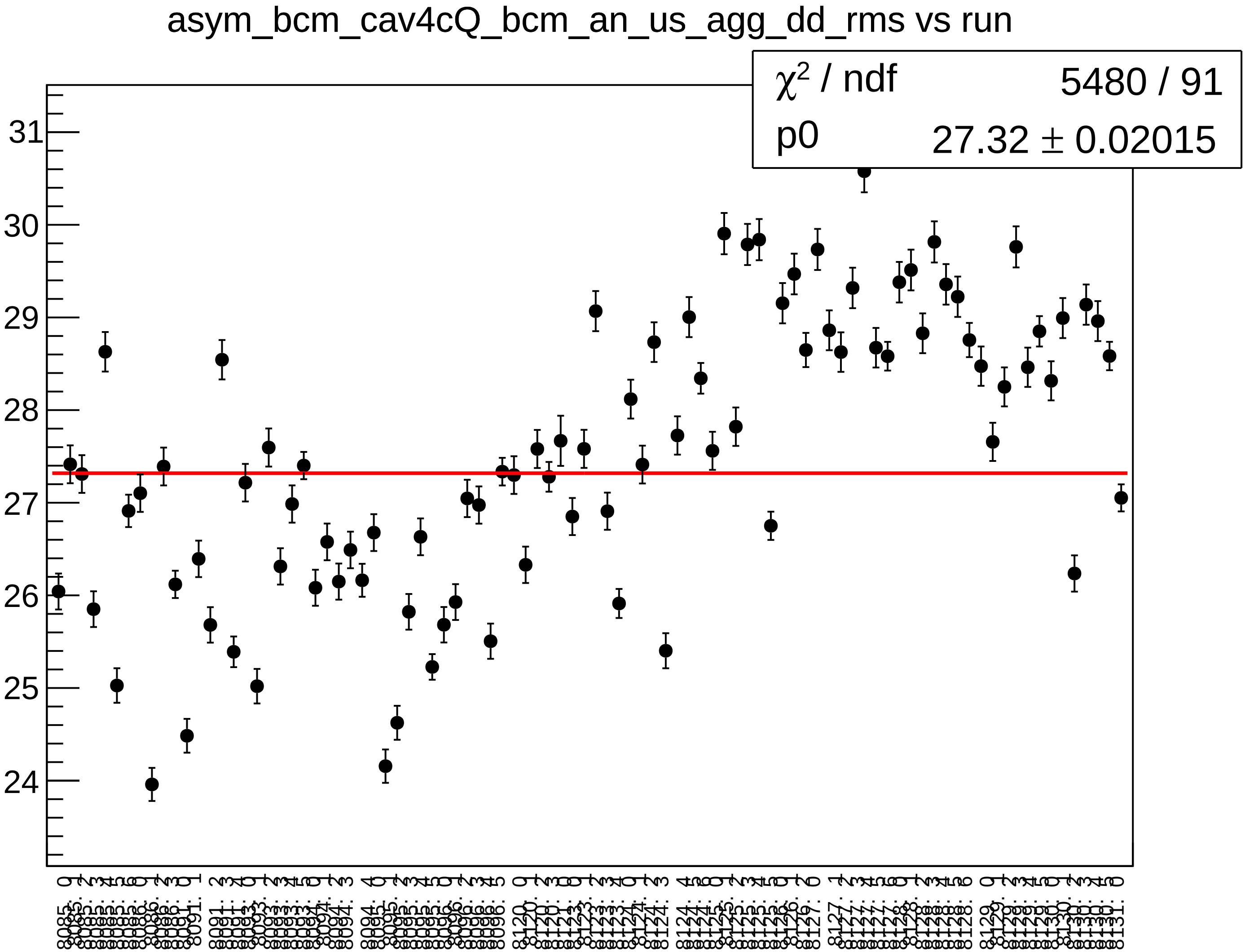

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ2 / ndf 24.69 / 91
p0 254.7 ± 163.7
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −68.45
Std Dev 137.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.008197
Std Dev 0.5179
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run

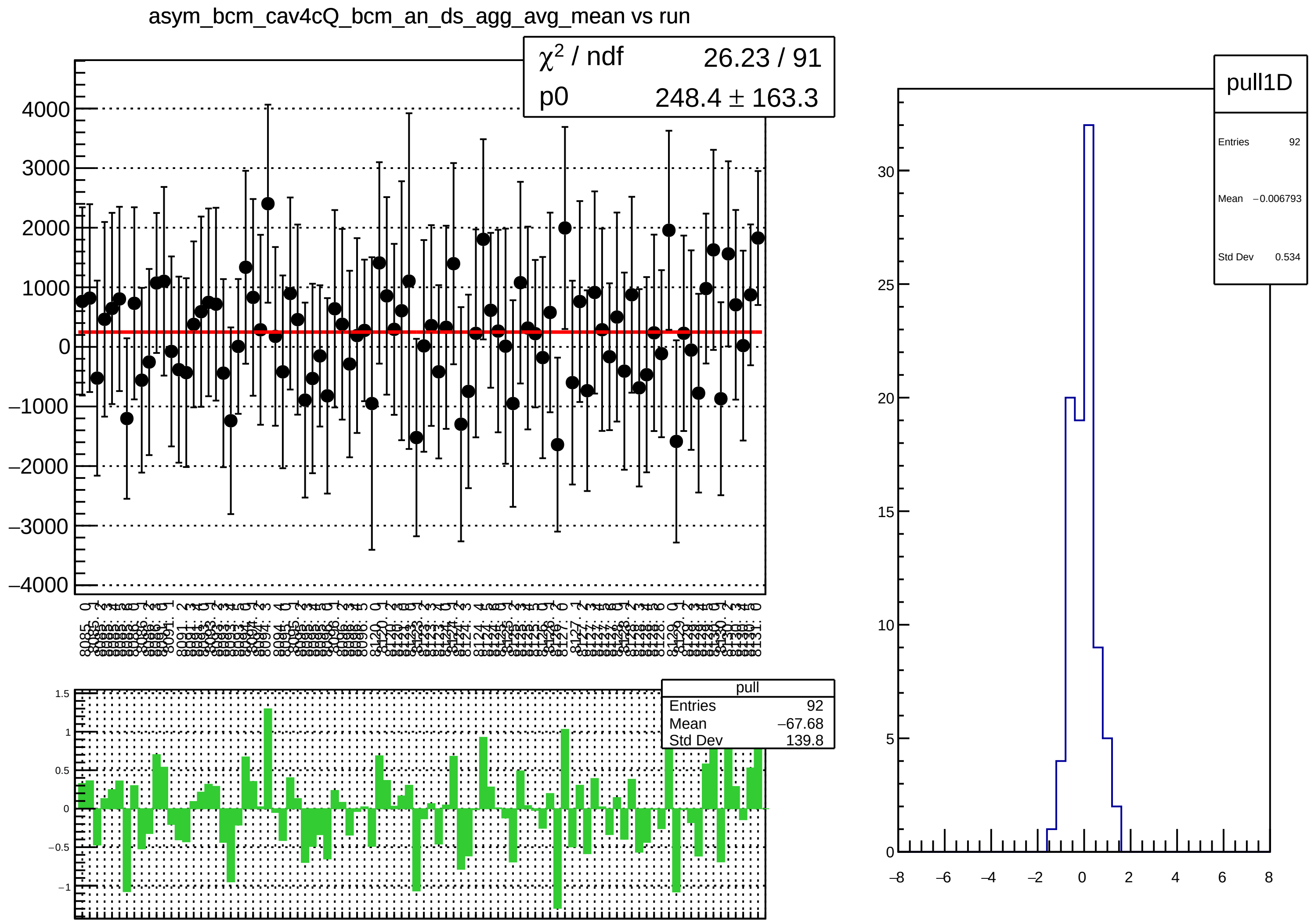




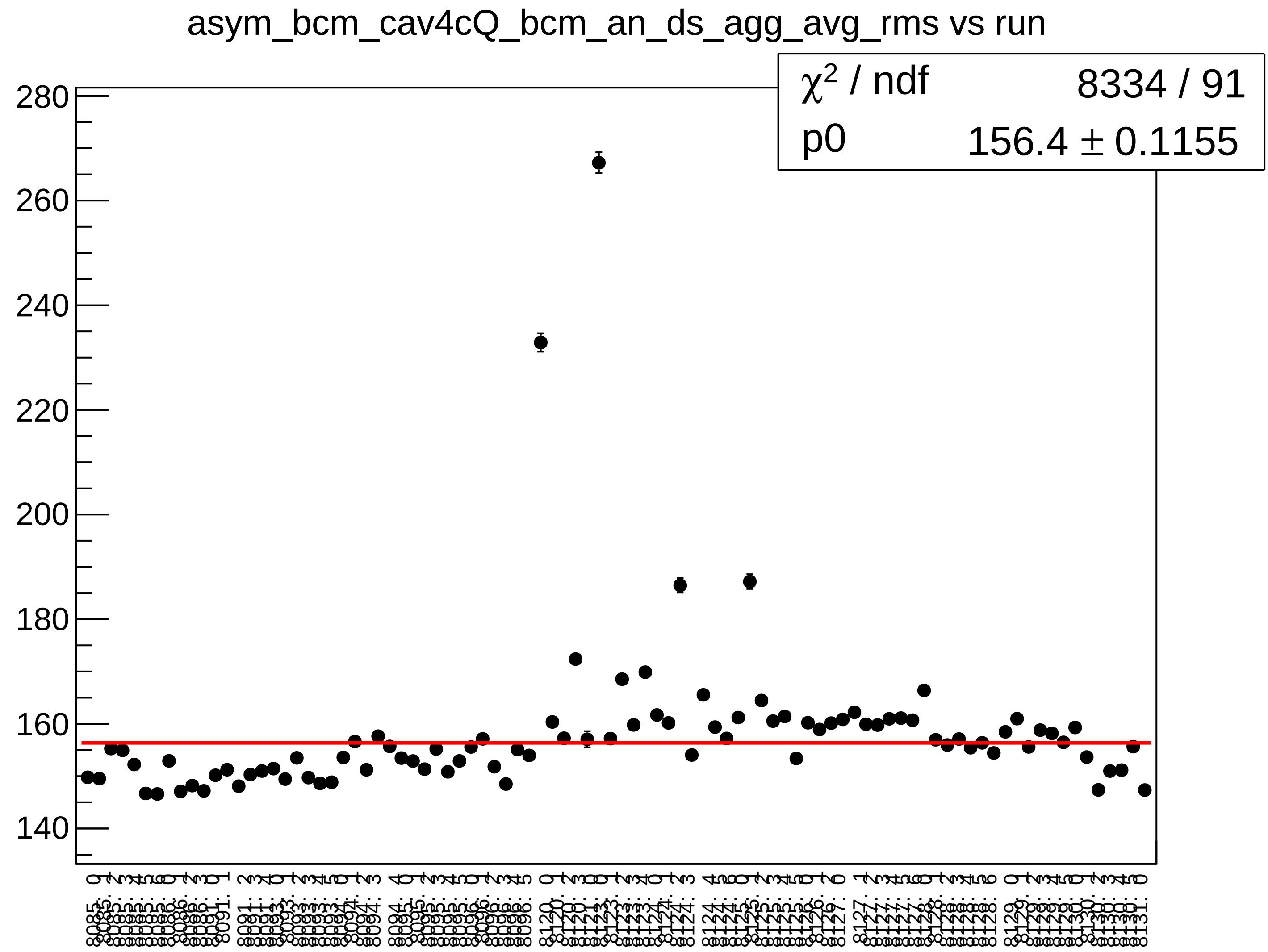
asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ^2 / ndf 92.66 / 91
p0 15.31 ± 28.5
1500
1000
500
0
−500
−1000
pull
Entries 92
Mean 147.4
Std Dev 82.95
3
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.02582
Std Dev 1.003
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

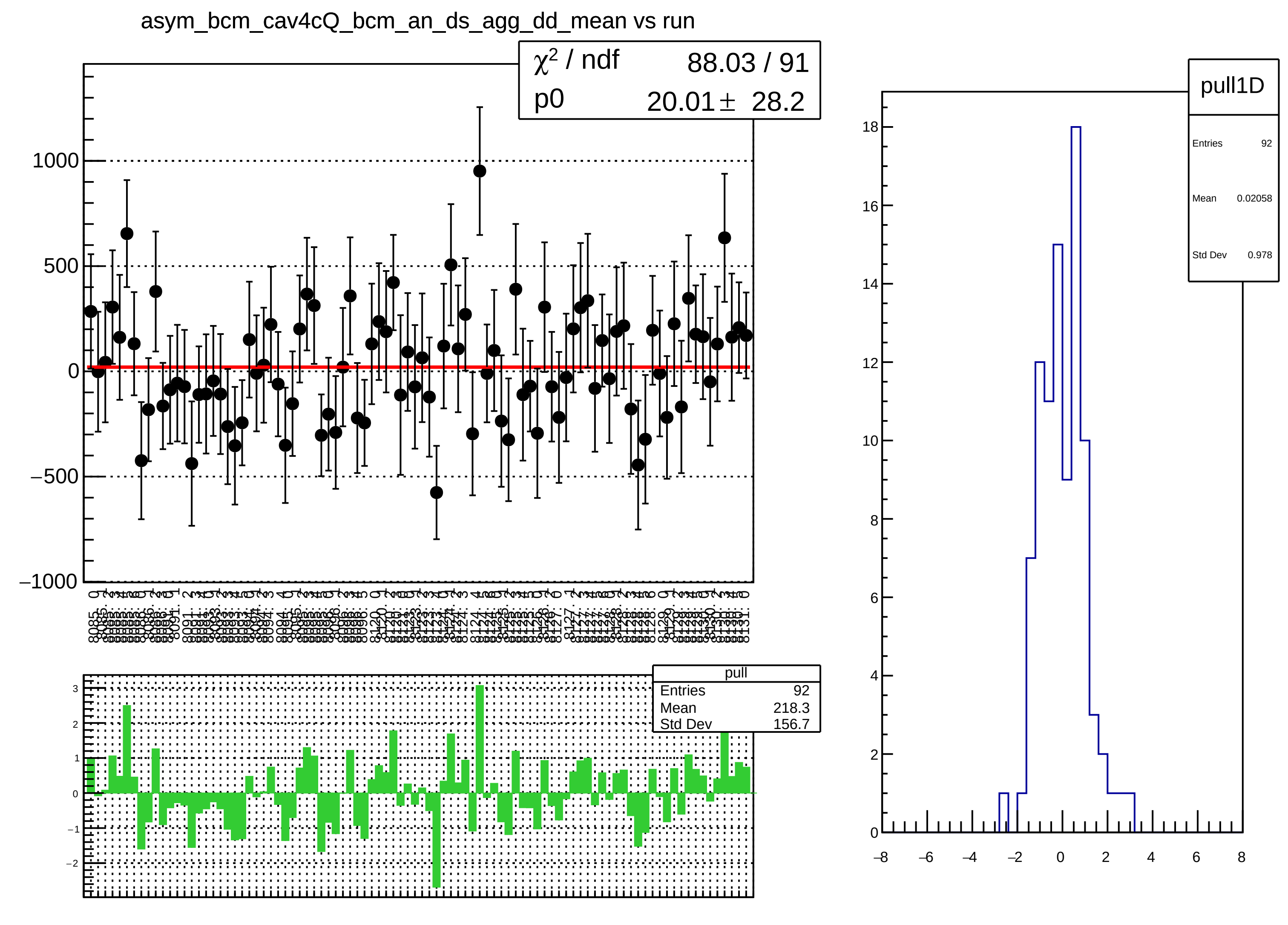


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ2 / ndf 5480 / 91
p0 27.32 ± 0.02015
31
30
29
28
27
26
25
24

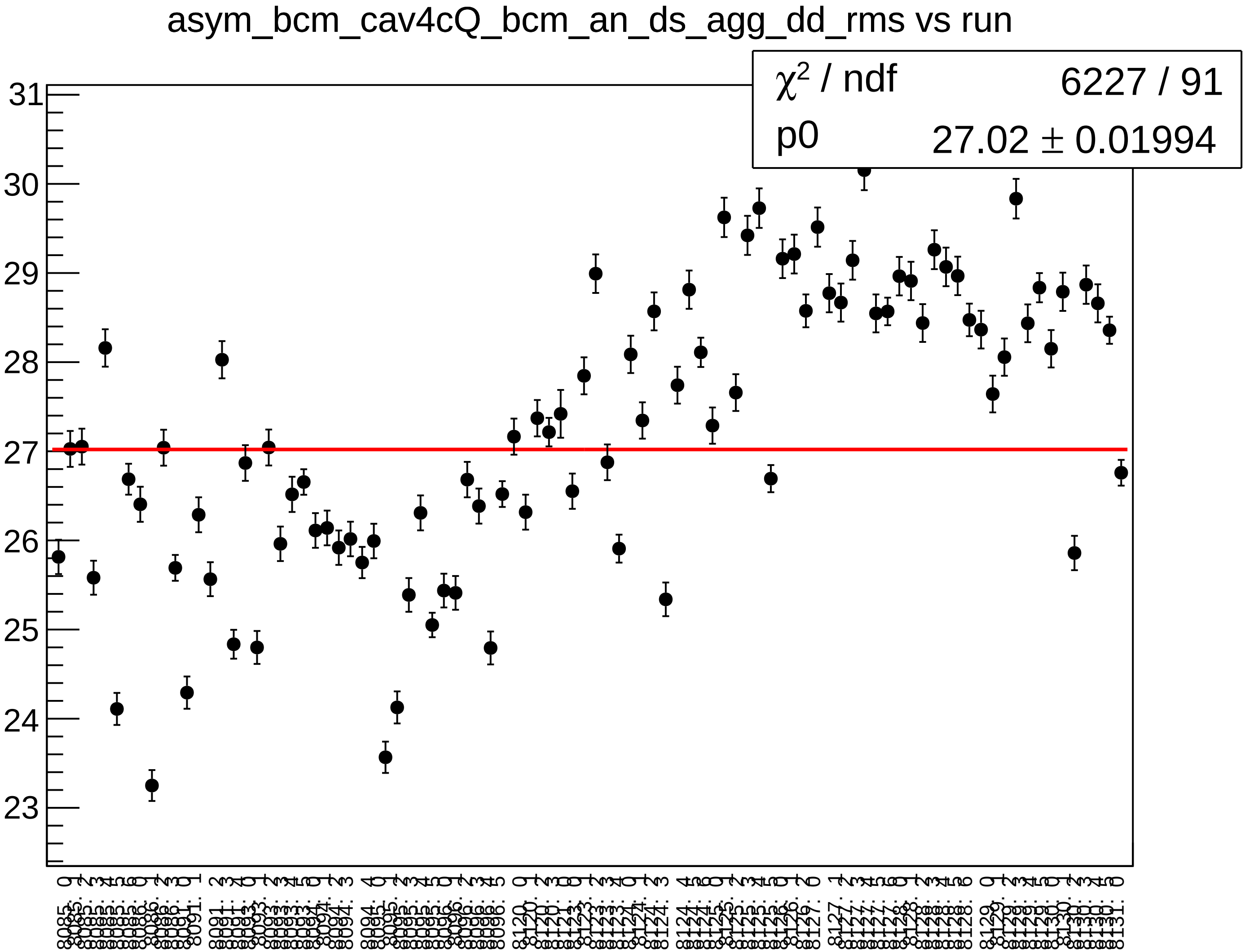


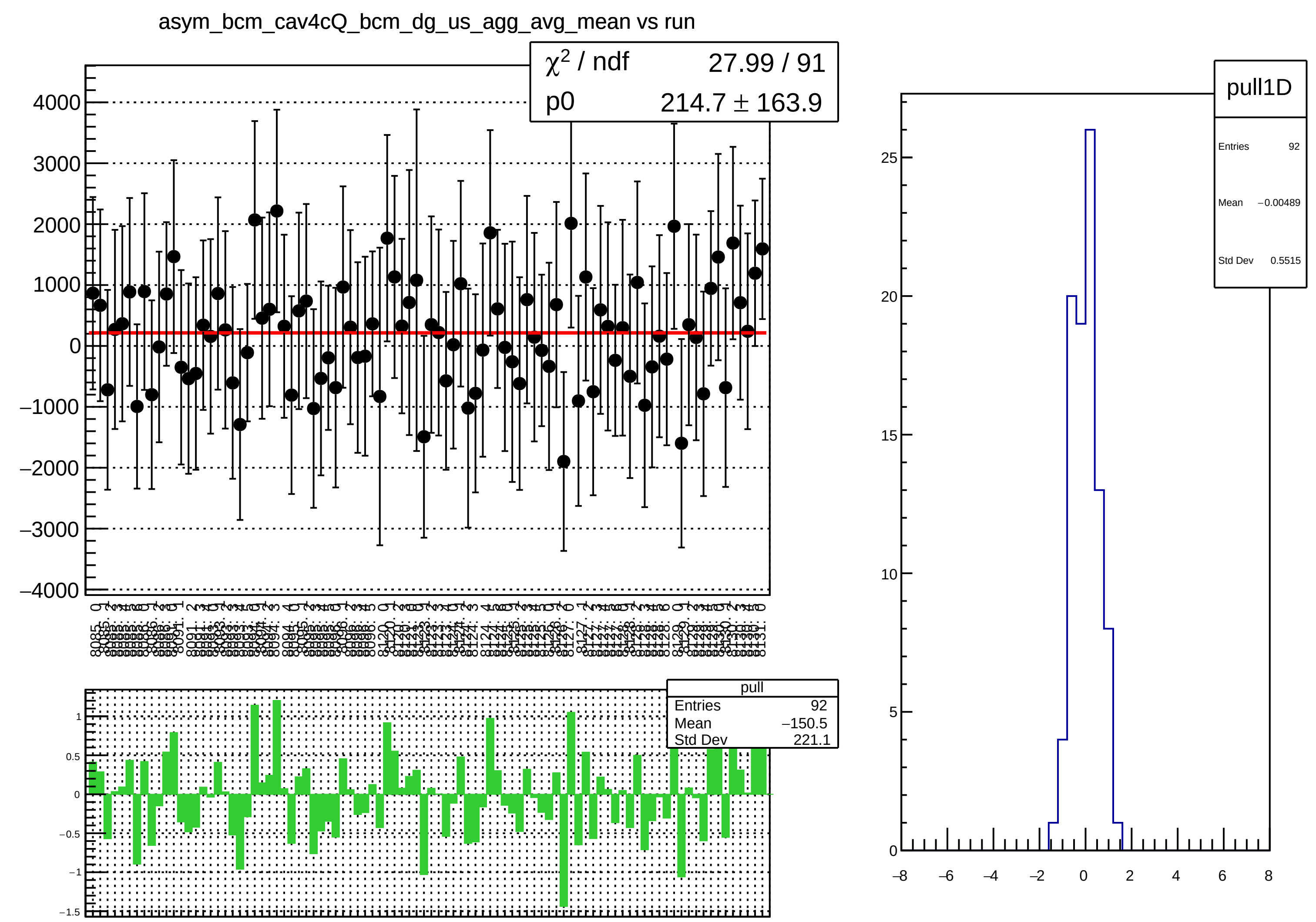
asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ2 / ndf 26.23 / 91
p0 248.4 ± 163.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −67.68
Std Dev 139.8
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.006793
Std Dev 0.534
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ^2 / ndf 8334 / 91
p0 156.4 ± 0.1155
280
260
240
220
200
180
160
140

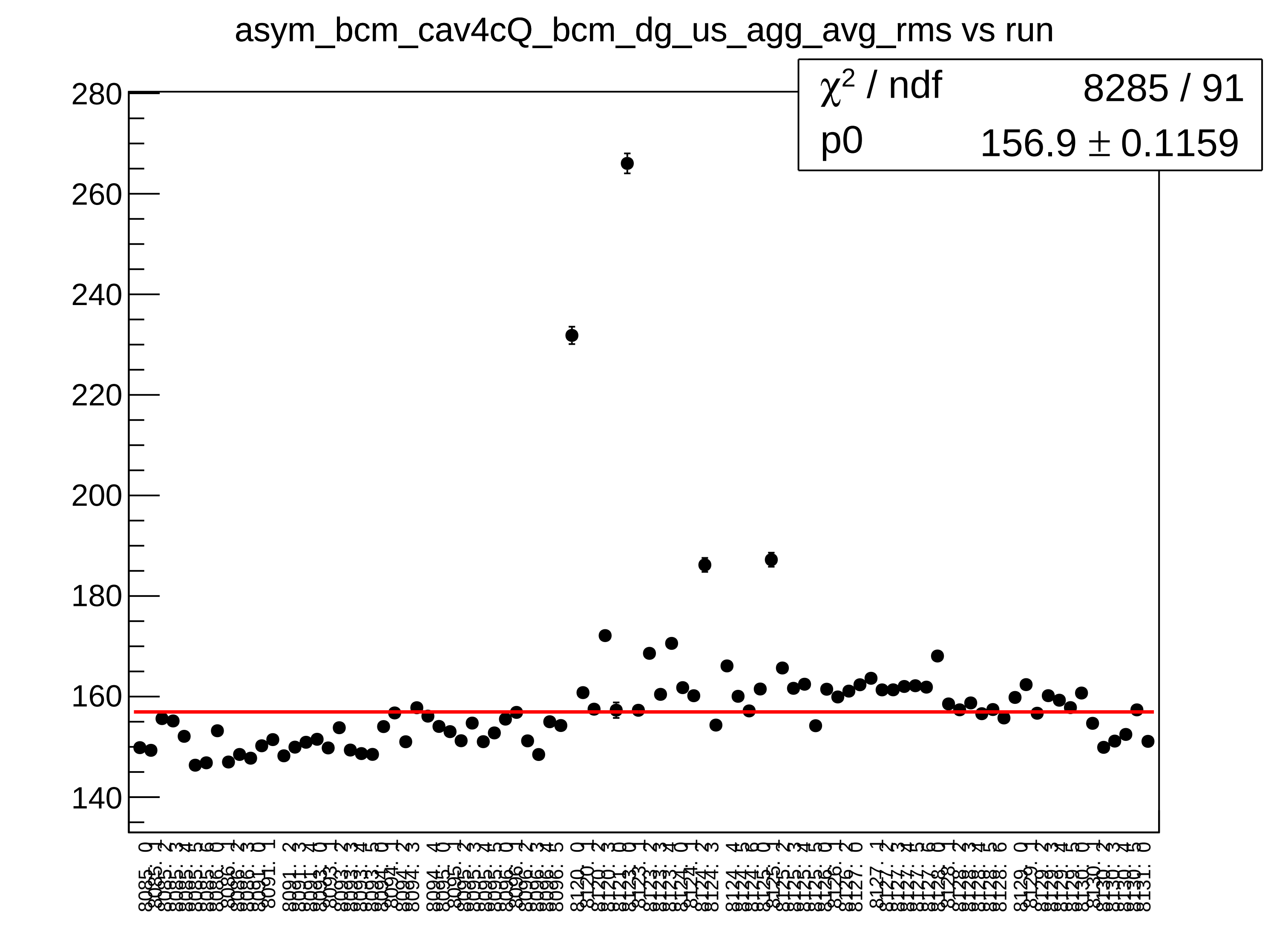


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ2 / ndf 88.03 / 91
p0 20.01 ± 28.2
pull
Entries 92
Mean 218.3
Std Dev 156.7
pull1D
Entries 92
Mean 0.02058
Std Dev 0.978

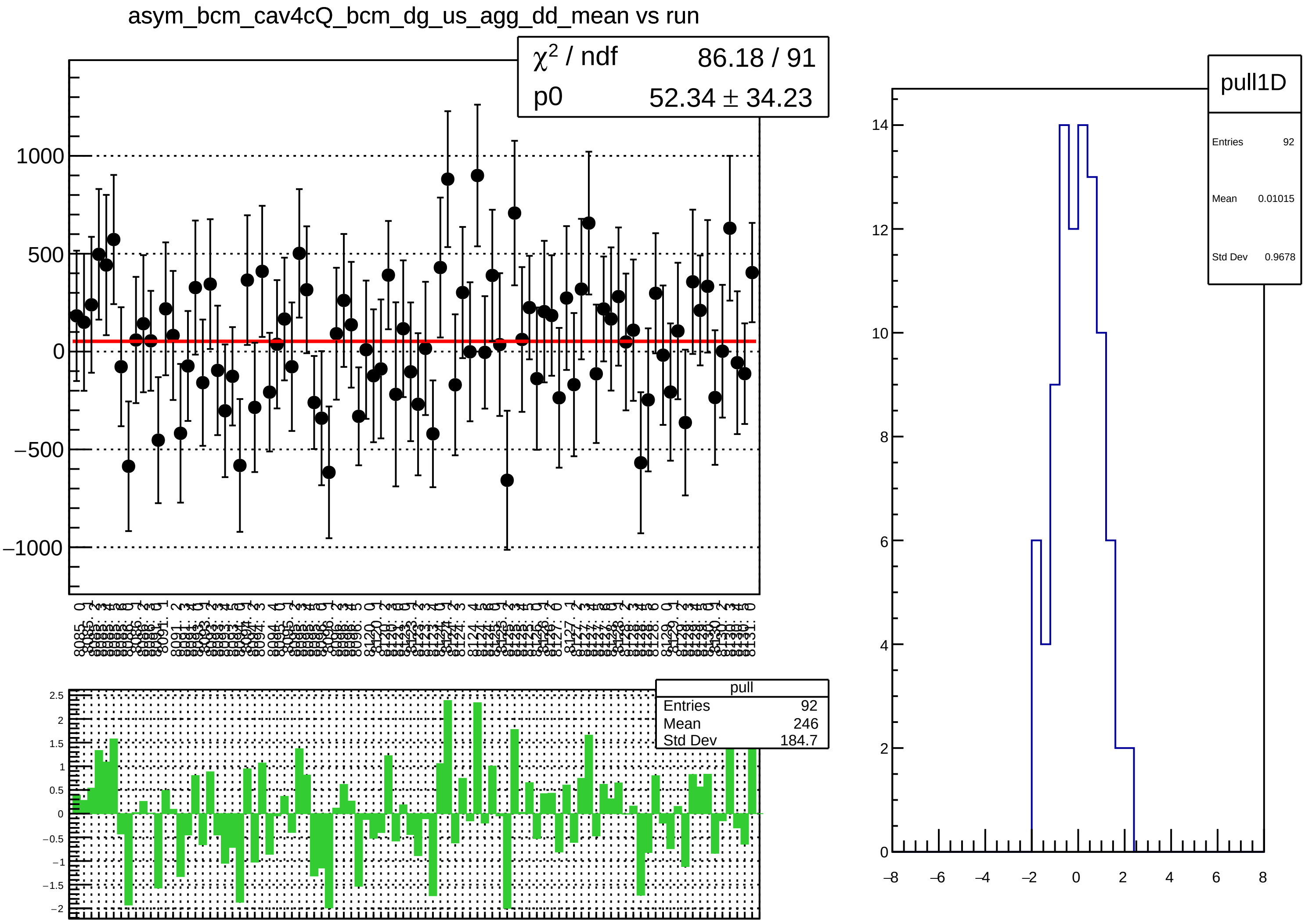




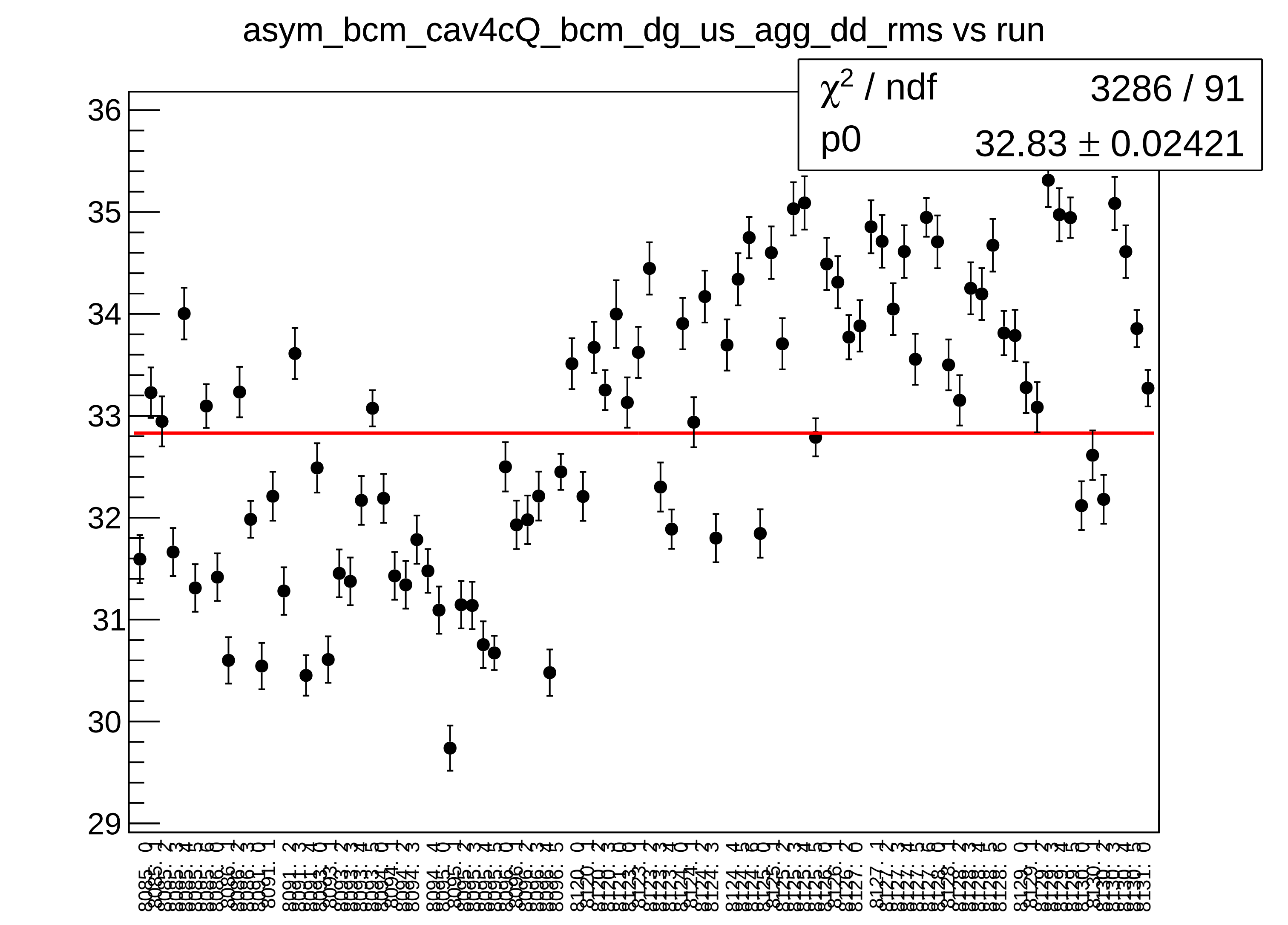
asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ^2 / ndf 27.99 / 91
p0 214.7 ± 163.9
pull
Entries 92
Mean −150.5
Std Dev 221.1
pull1D
Entries 92
Mean −0.00489
Std Dev 0.5515

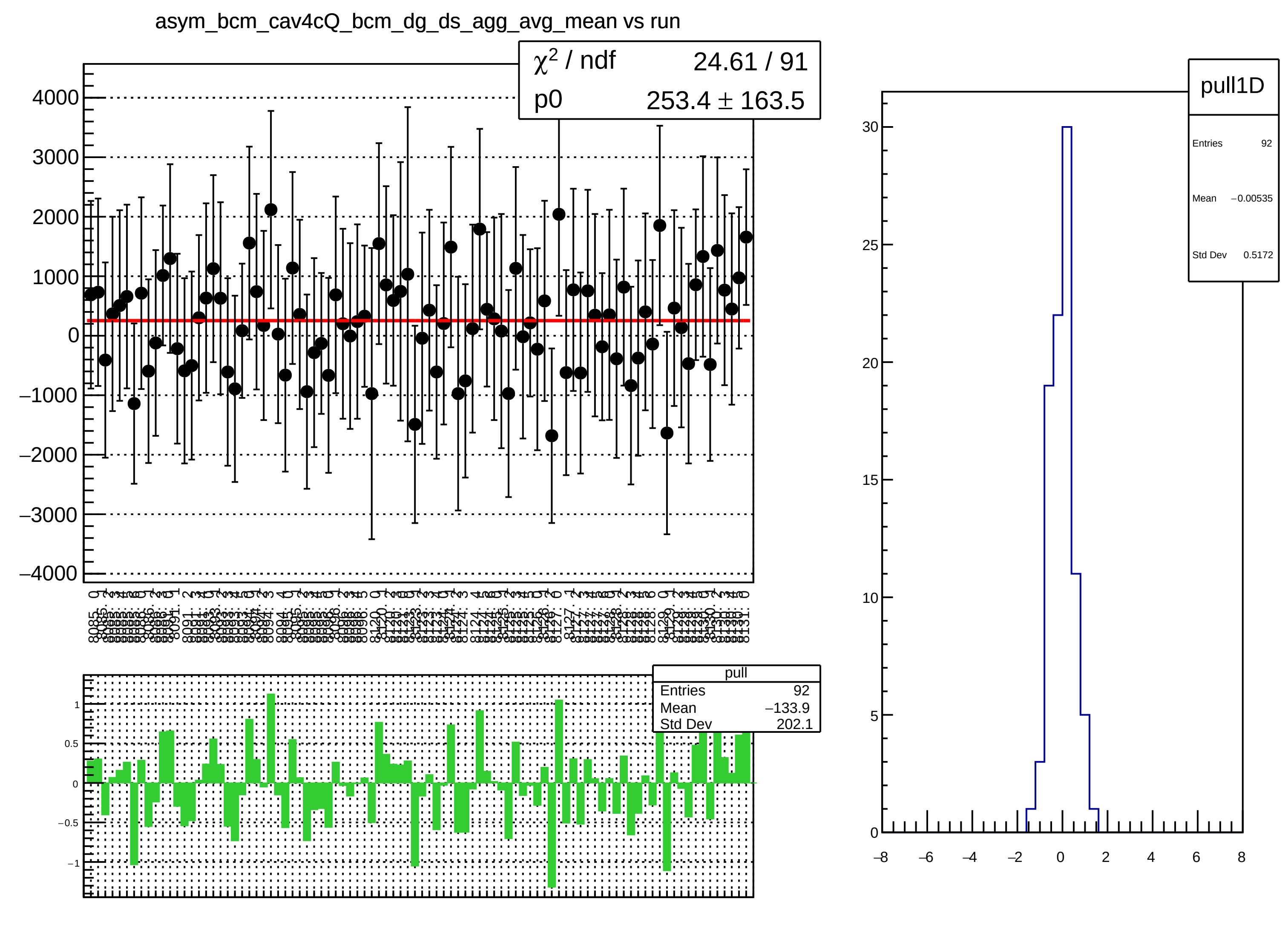


asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ2 / ndf 8285 / 91
p0 156.9 ± 0.1159

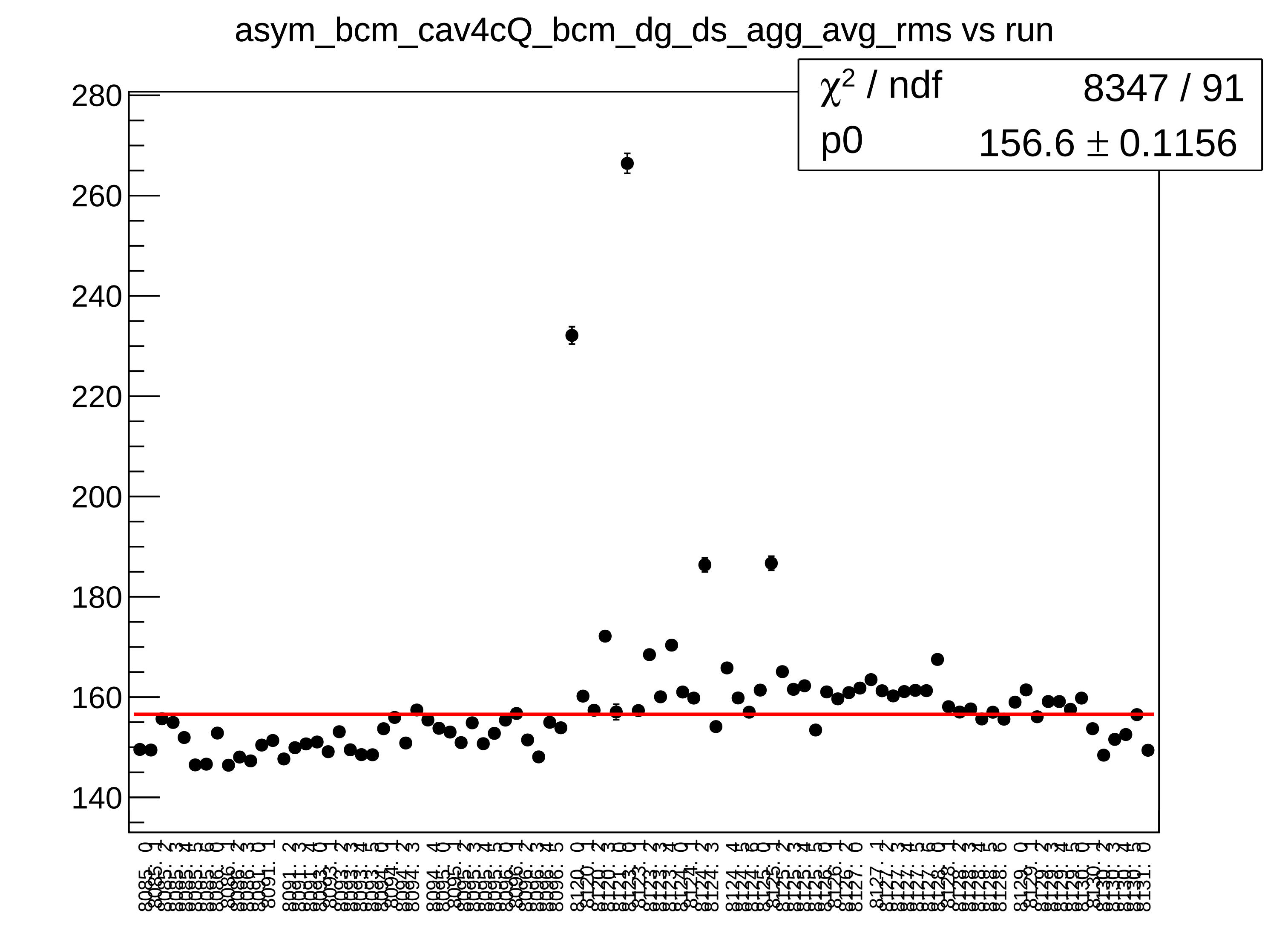


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 86.18 / 91
p0 52.34 ± 34.23
pull
Entries 92
Mean 246
Std Dev 184.7
pull1D
Entries 92
Mean 0.01015
Std Dev 0.9678

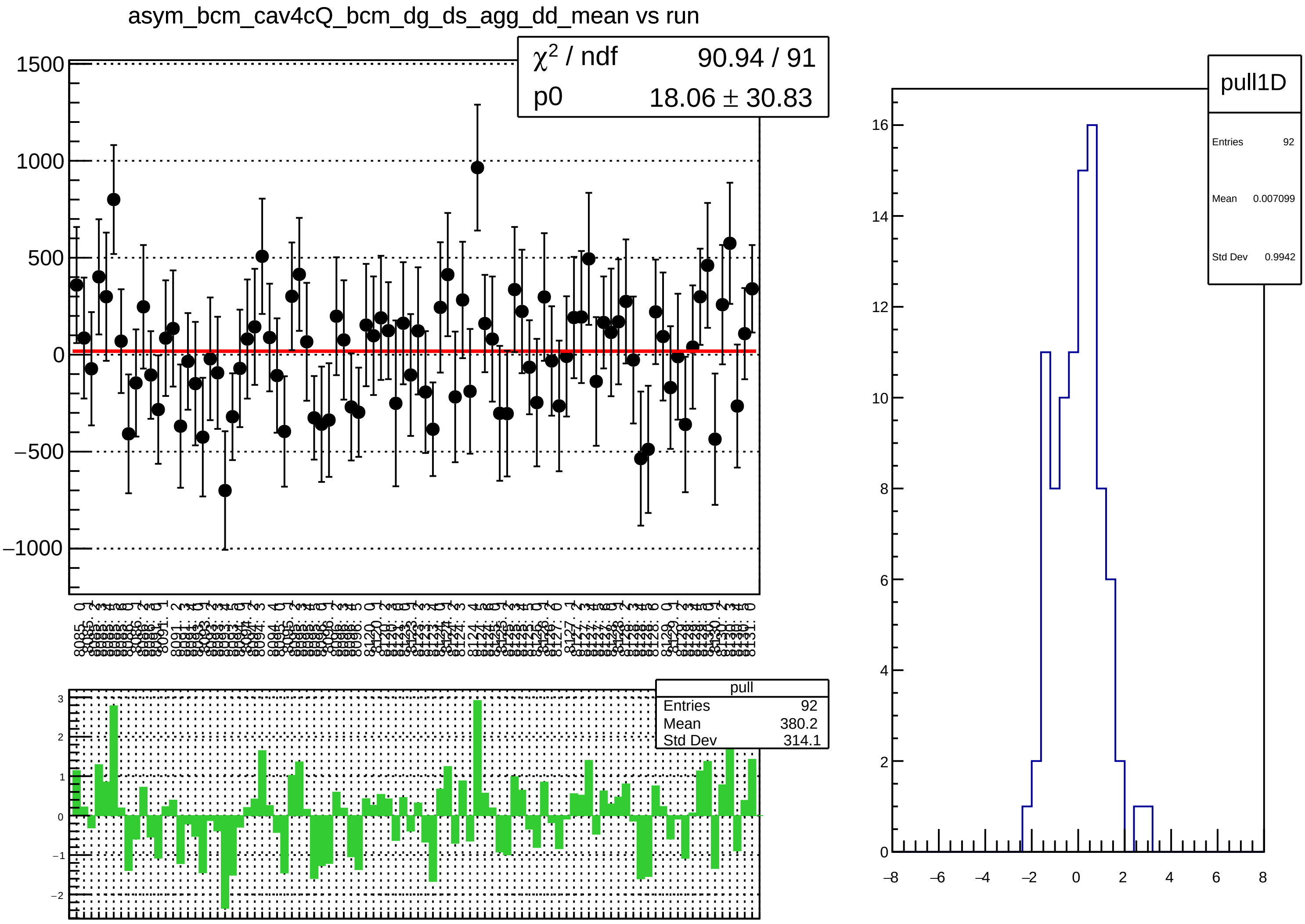

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ^2 / ndf 3286 / 91
p0 32.83 ± 0.02421
36
35
34
33
32
31
30
29



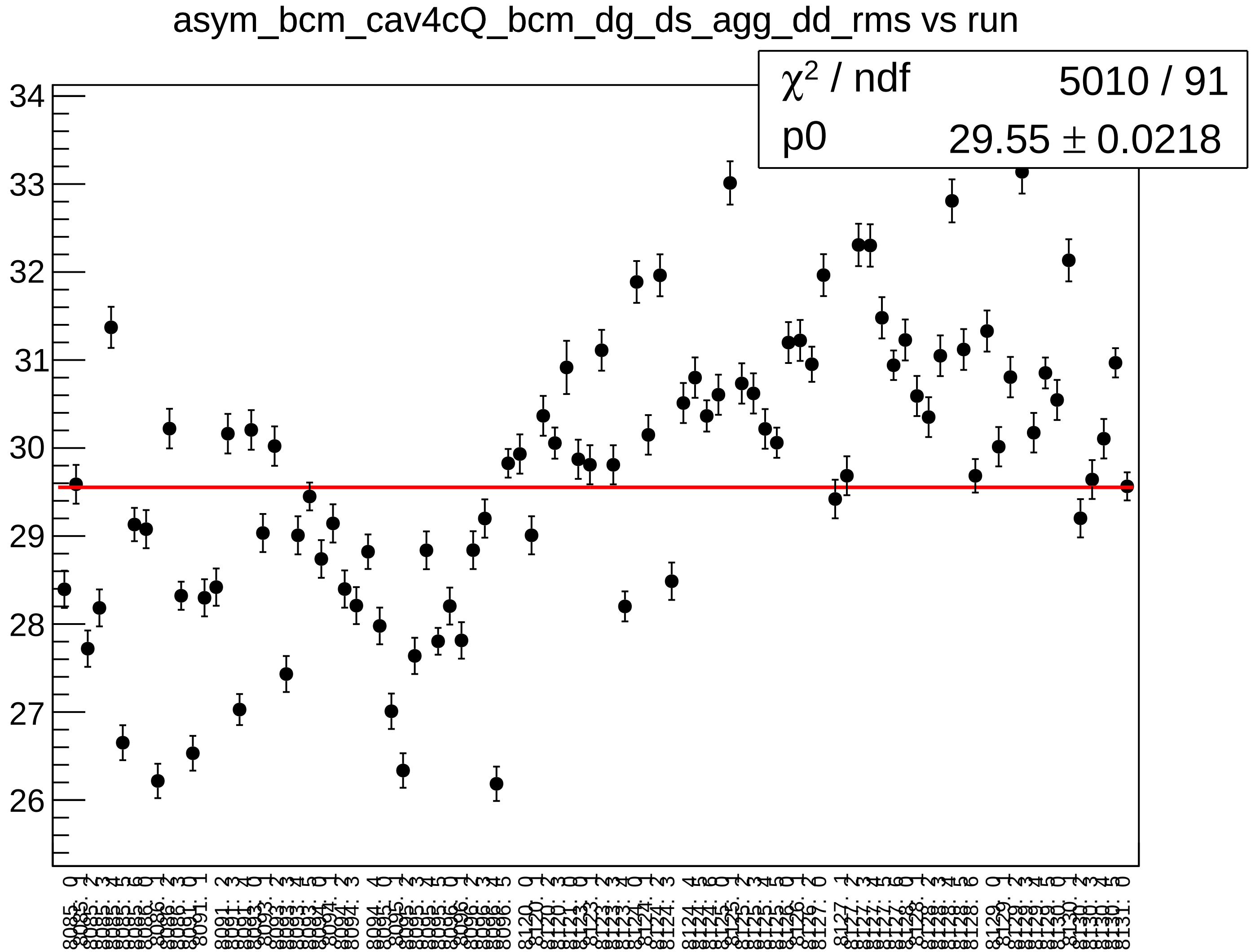
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ^2 / ndf 24.61 / 91
p0 253.4 ± 163.5
pull
Entries 92
Mean −133.9
Std Dev 202.1
pull1D
Entries 92
Mean −0.00535
Std Dev 0.5172

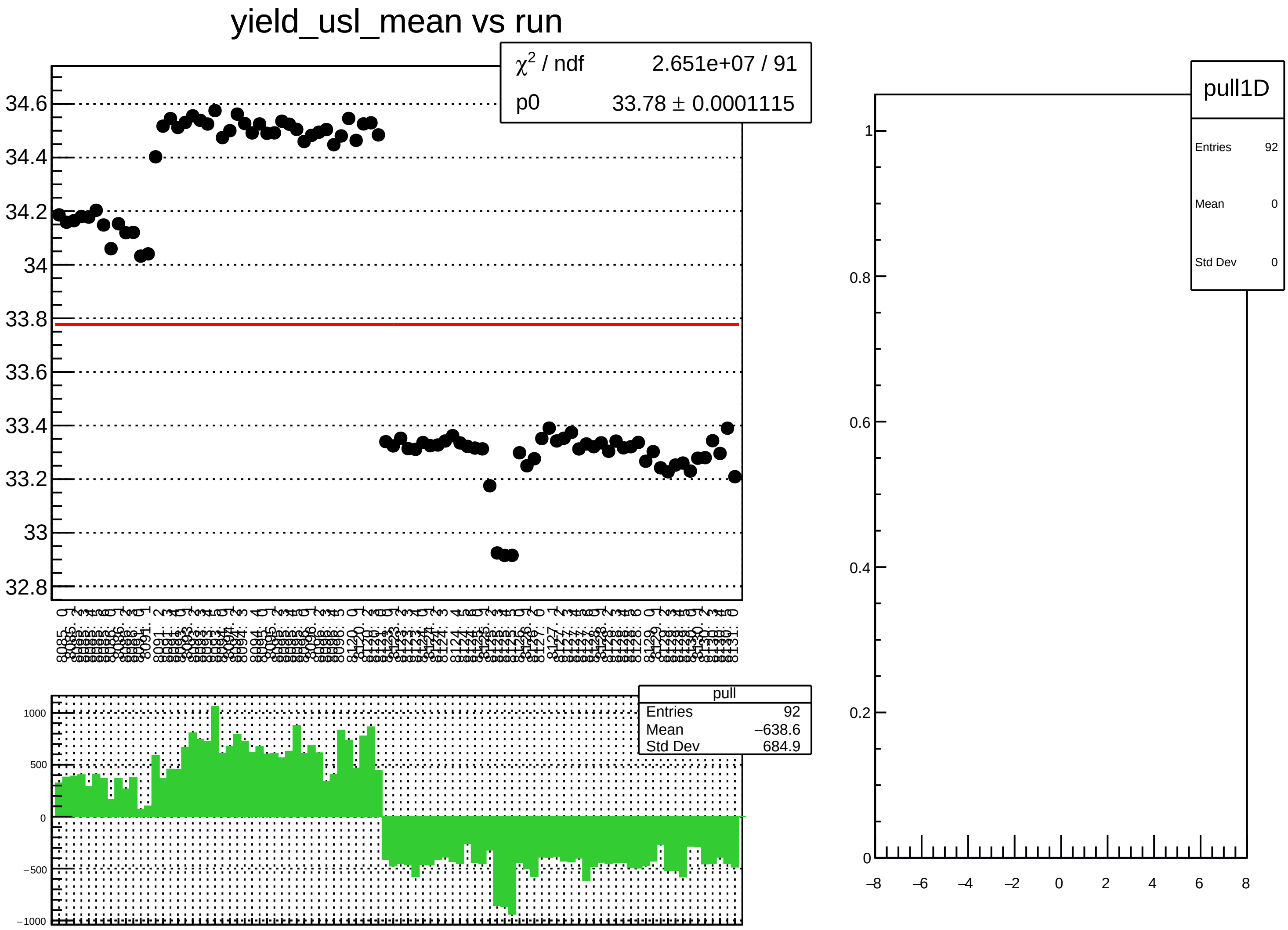


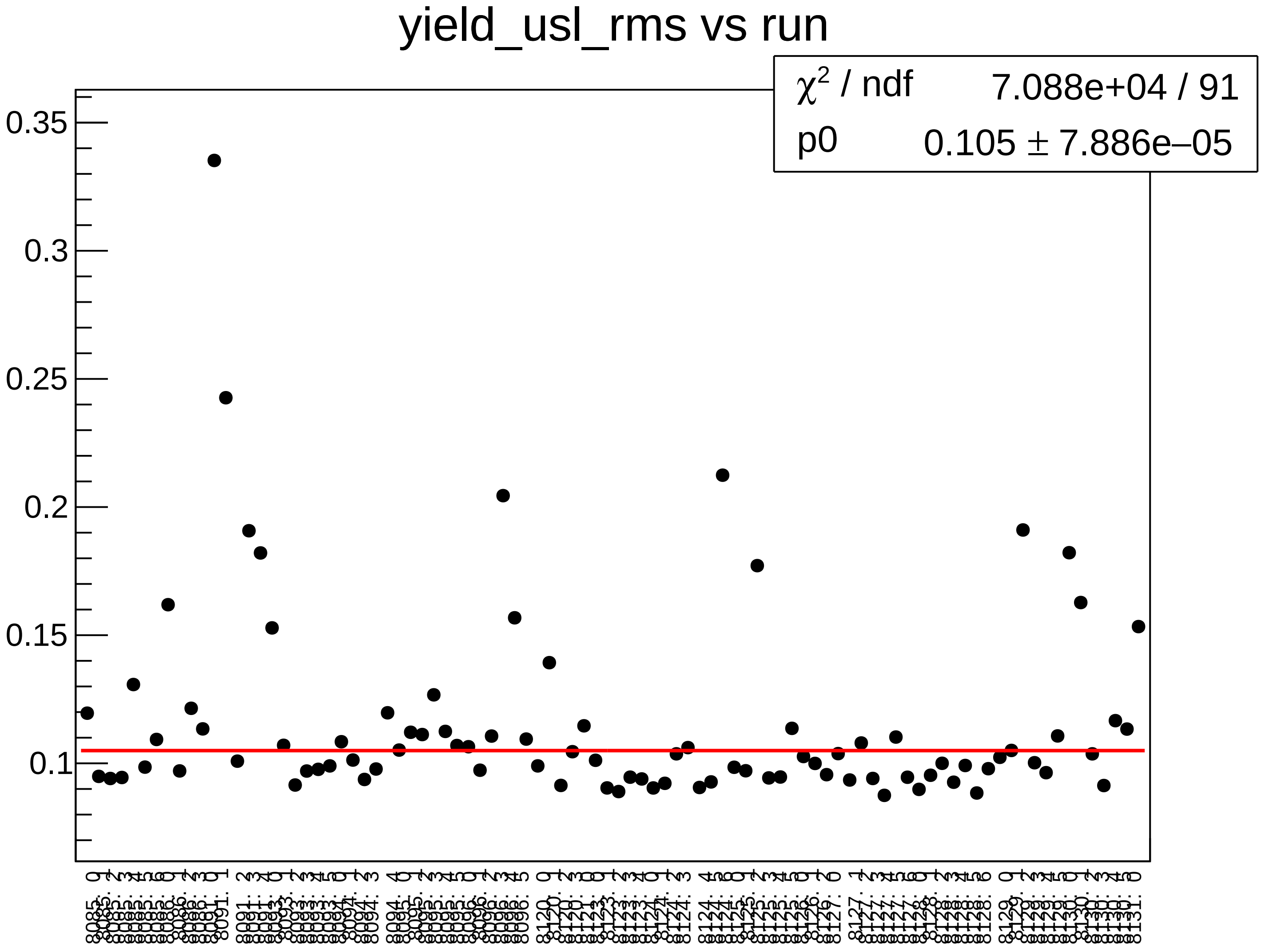
asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ^2 / ndf 8347 / 91
p0 156.6 ± 0.1156
280
260
240
220
200
180
160
140



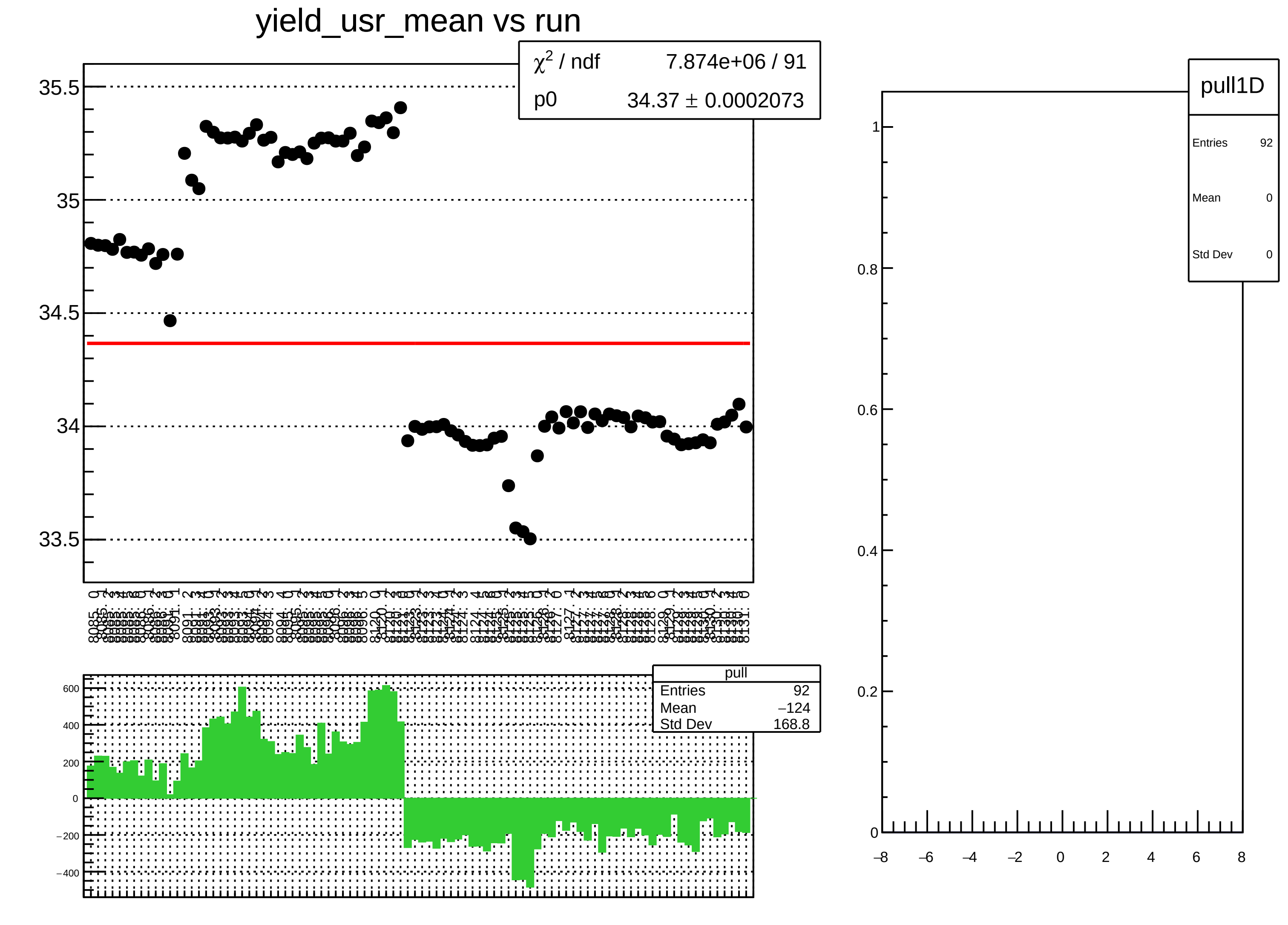
asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ^2 / ndf 90.94 / 91
p0 18.06 ± 30.83
pull
Entries 92
Mean 380.2
Std Dev 314.1
pull1D
Entries 92
Mean 0.007099
Std Dev 0.9942


asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ^2 / ndf 5010 / 91
p0 29.55 ± 0.0218
34
33
32
31
30
29
28
27
26

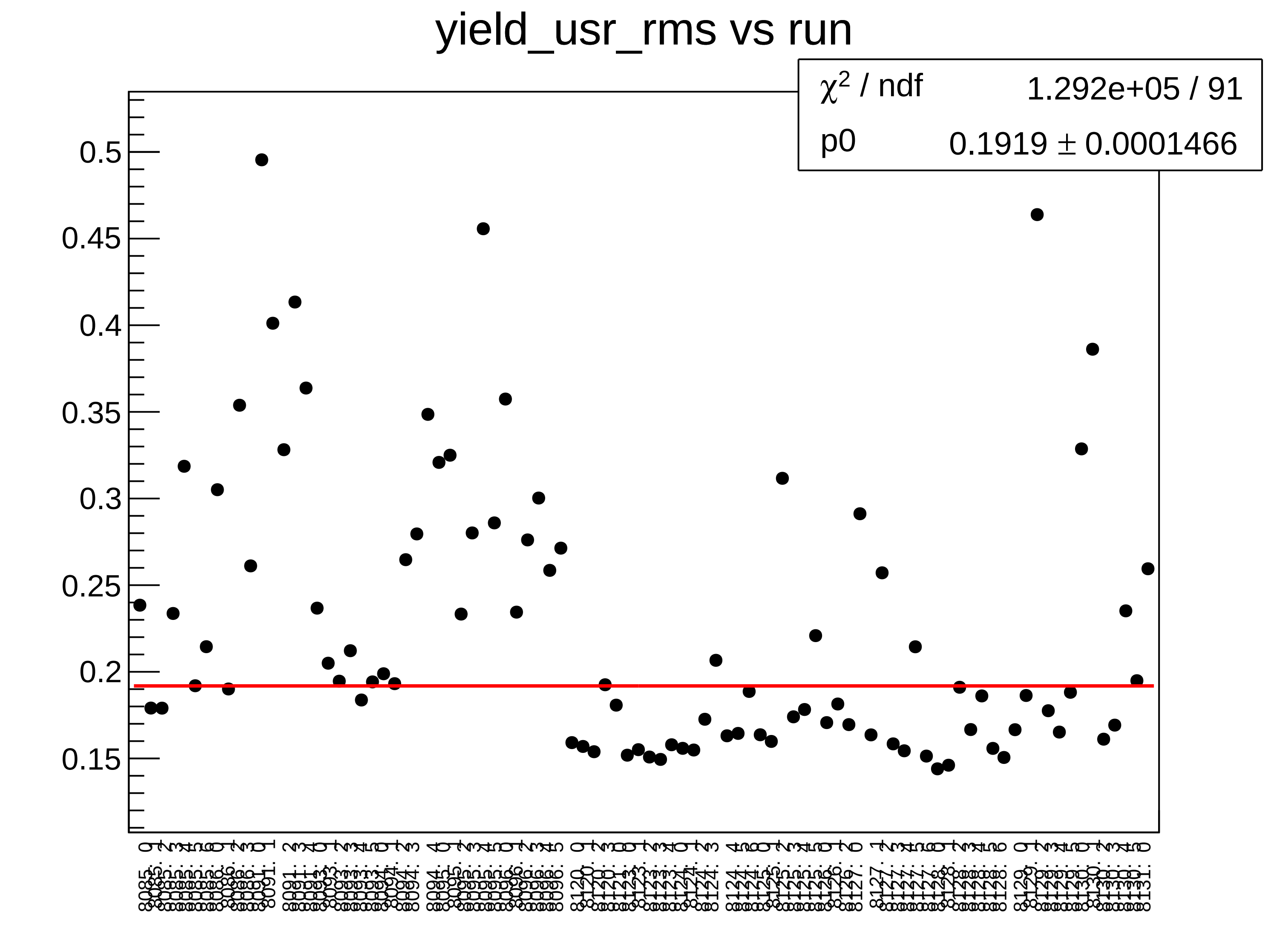

yield_usl_mean vs run
χ^2 / ndf 2.651e+07 / 91
p0 33.78 ± 0.0001115
pull
Entries 92
Mean −638.6
Std Dev 684.9
pull1D
Entries 92
Mean 0
Std Dev 0

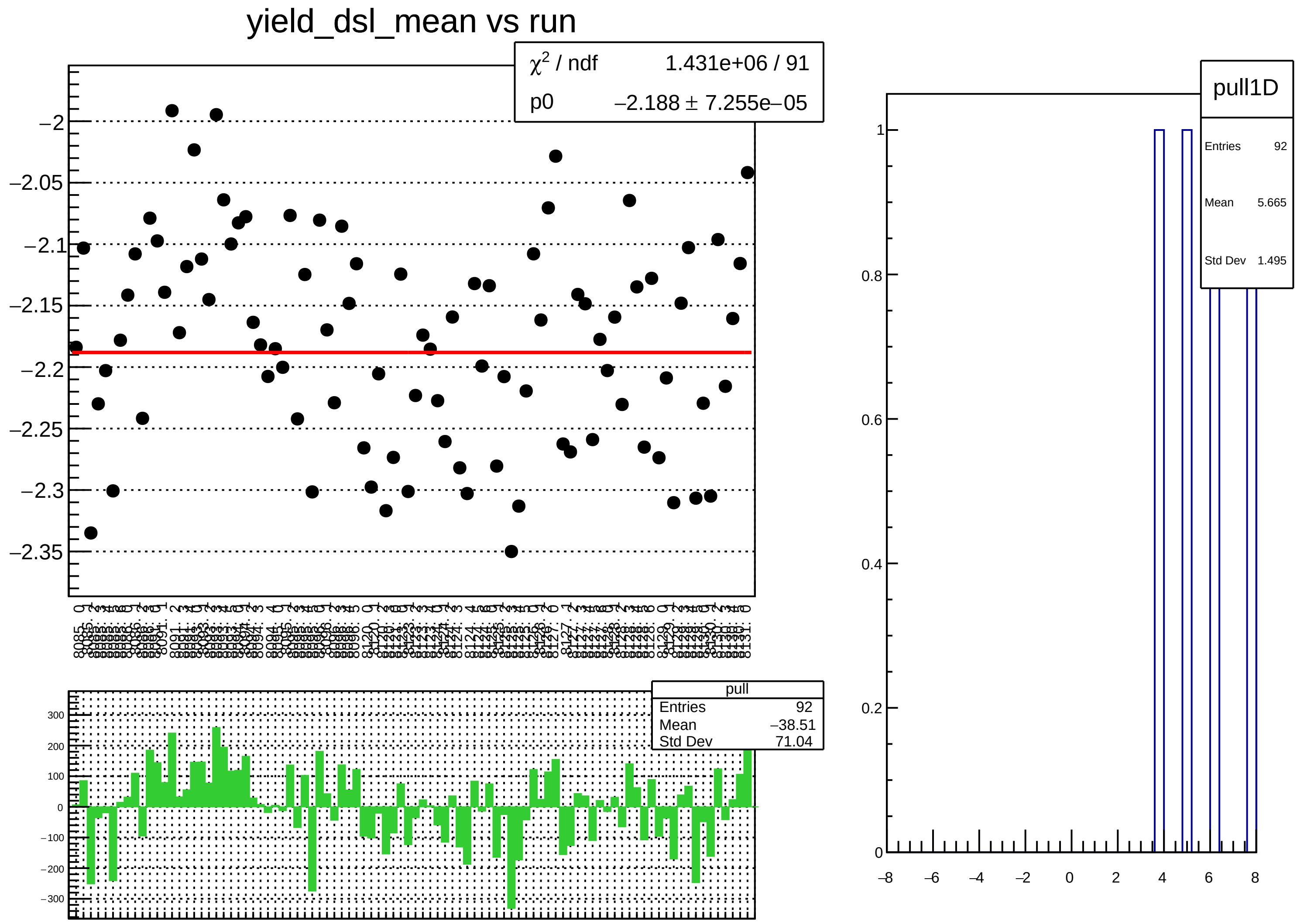


yield_usl_rms vs run
χ^2 / ndf 7.088e+04 / 91
p0 0.105 ± 7.886e−05
0.35
0.3
0.25
0.2
0.15
0.1

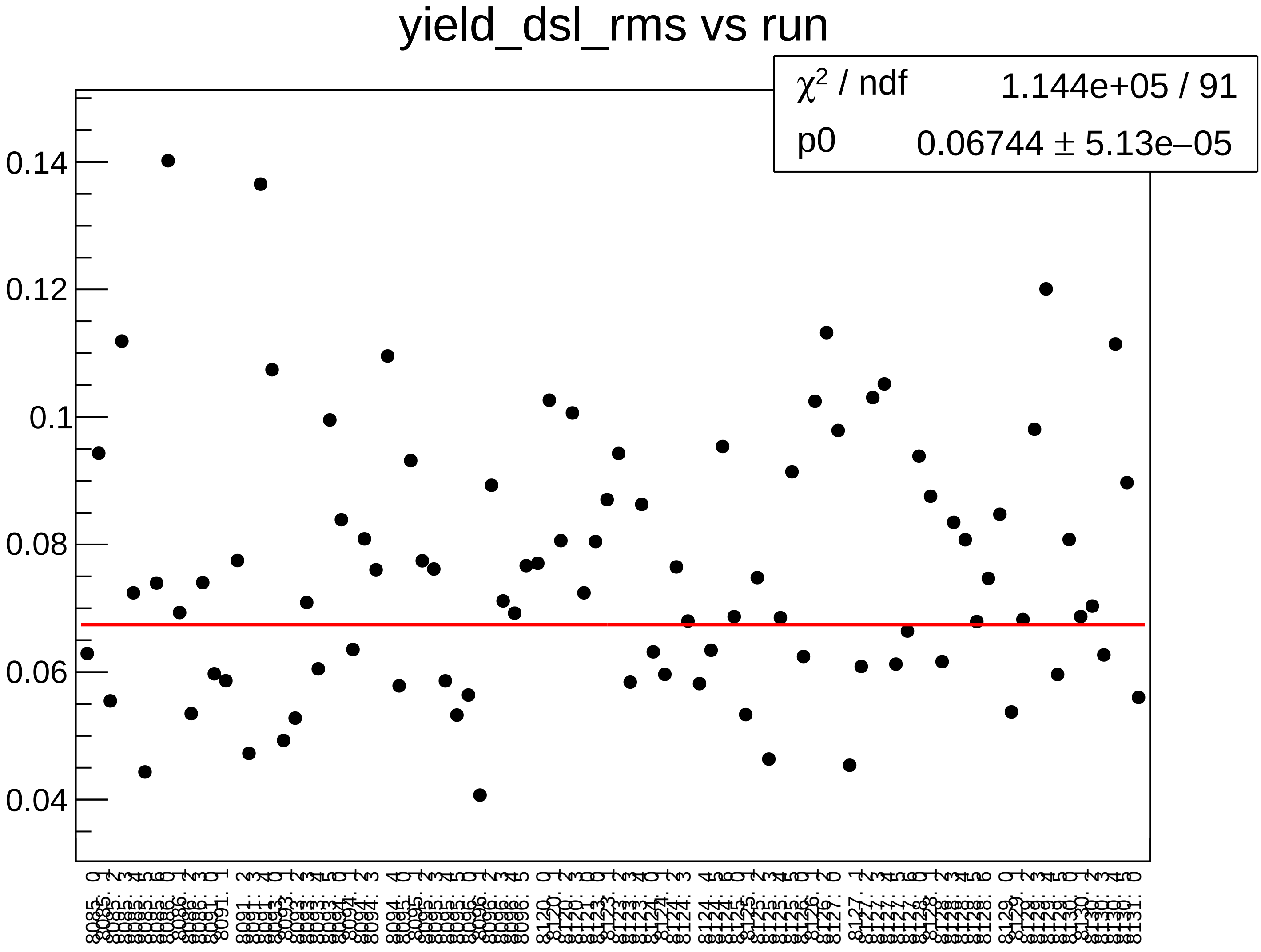


yield_usr_mean vs run
χ^2 / ndf 7.874e+06 / 91
p0 34.37 ± 0.0002073
35.5
35
34.5
34
33.5
pull
Entries 92
Mean −124
Std Dev 168.8
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

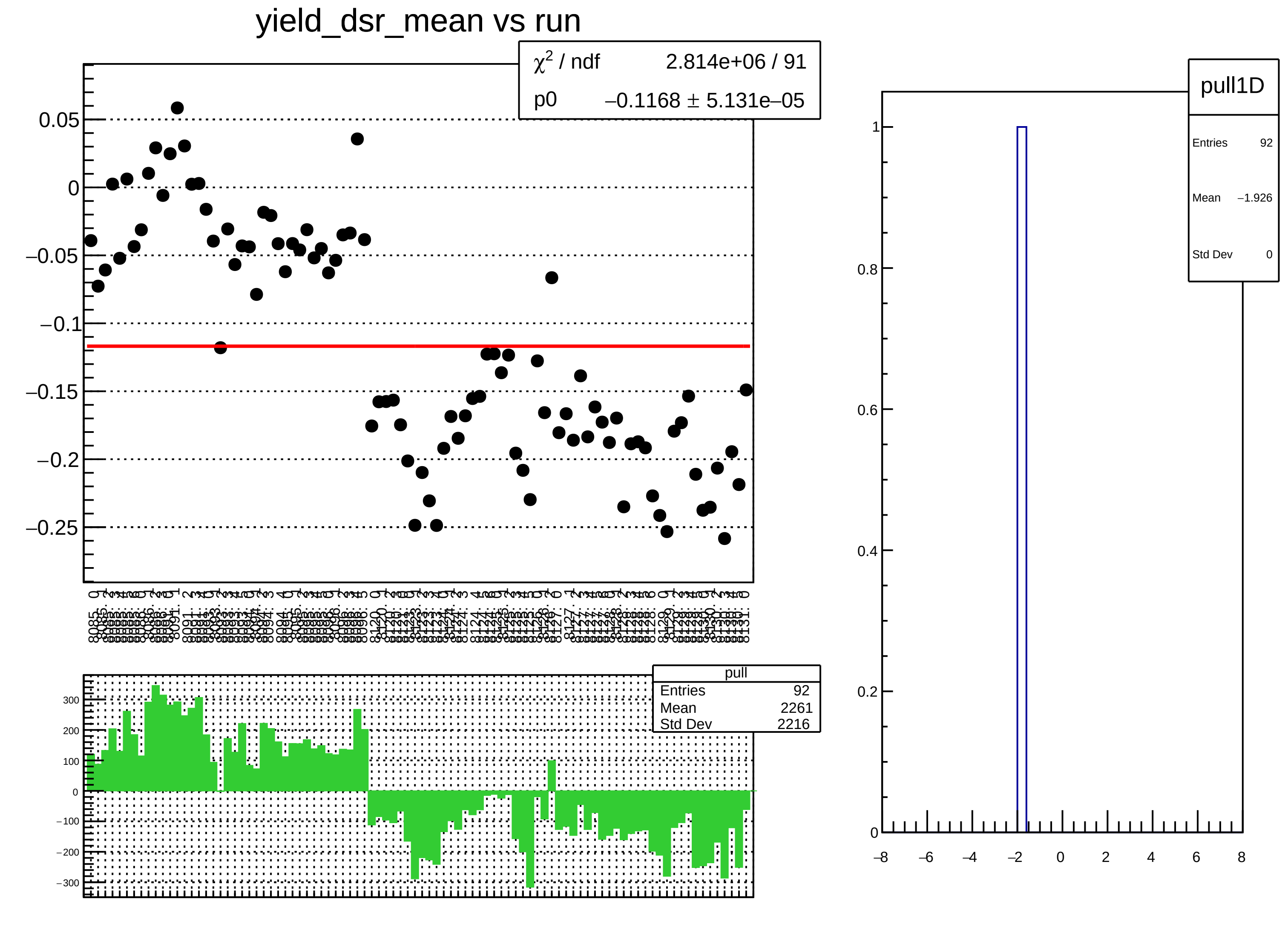

yield_usr_rms vs run
χ^2 / ndf 1.292e+05 / 91
p0 0.1919 ± 0.0001466
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

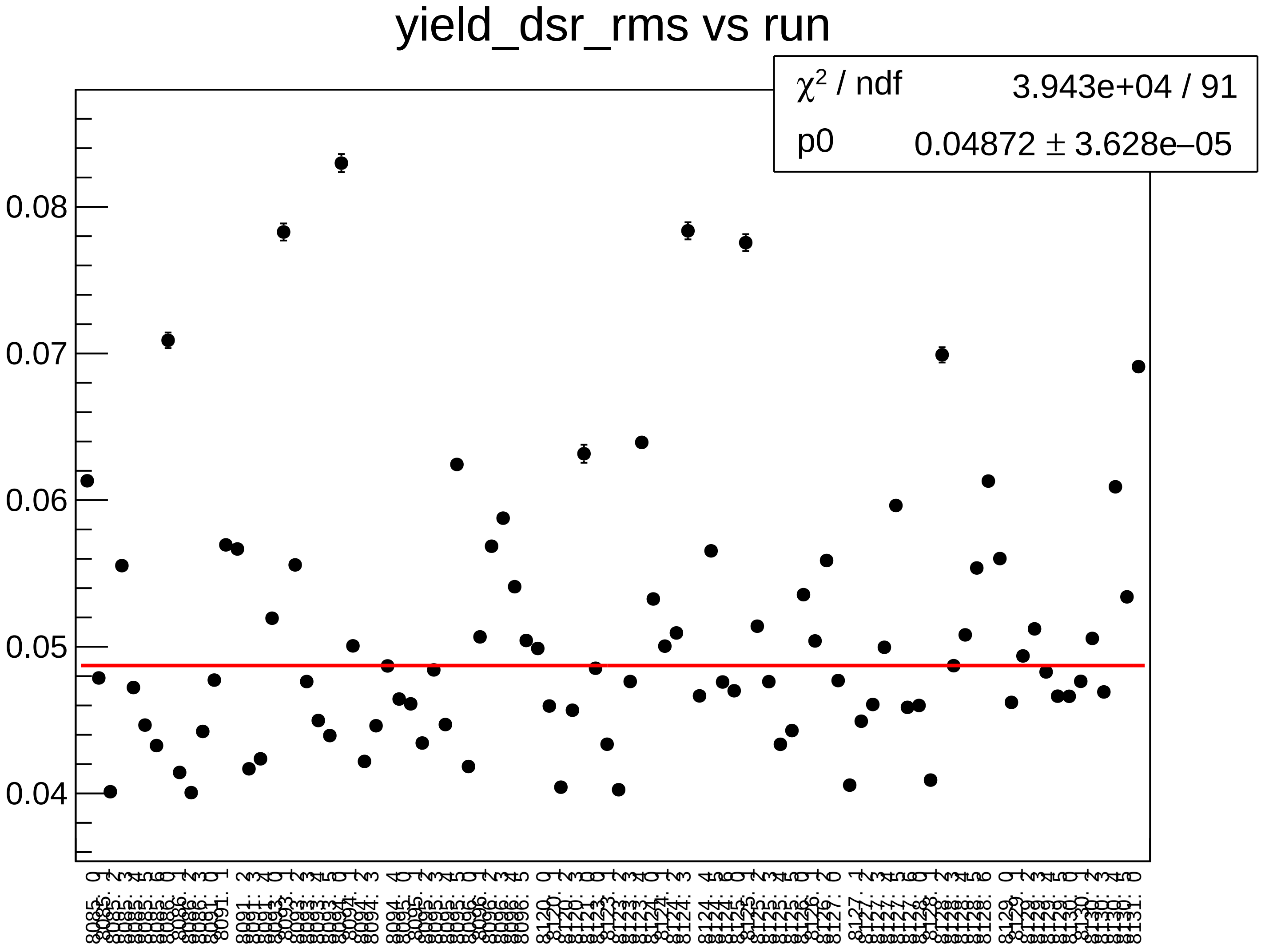


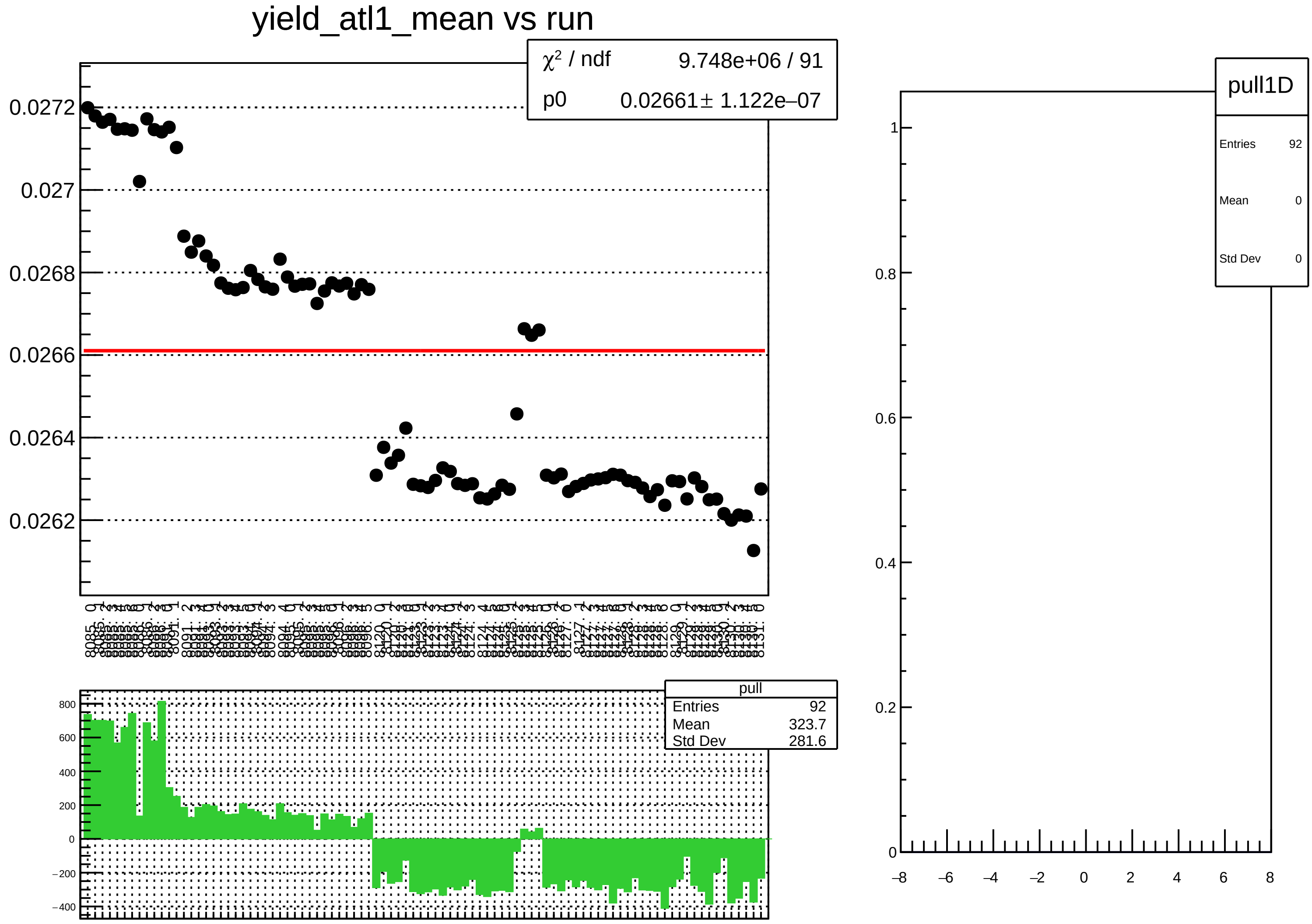
yield_dsl_mean vs run
χ^2 / ndf 1.431e+06 / 91
p0 −2.188 ± 7.255e−05
pull
Entries 92
Mean −38.51
Std Dev 71.04
pull1D
Entries 92
Mean 5.665
Std Dev 1.495



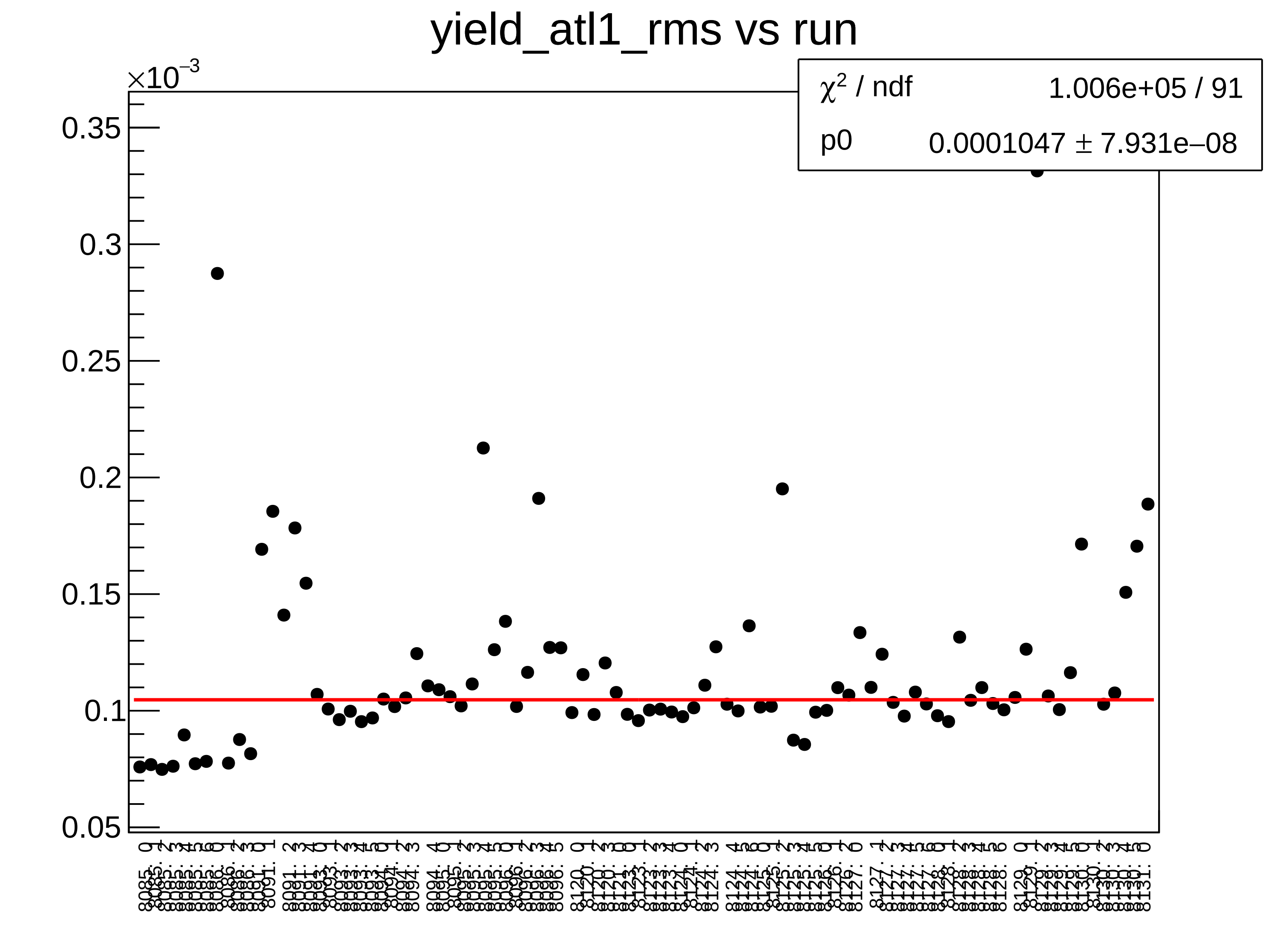
yield_dsl_rms vs run
χ2 / ndf 1.144e+05 / 91
p0 0.06744 ± 5.13e−05
0.14
0.12
0.1
0.08
0.06
0.04


yield_dsr_mean vs run
χ^2 / ndf 2.814e+06 / 91
p0 −0.1168 ± 5.131e−05
pull
Entries 92
Mean 2261
Std Dev 2216
pull1D
Entries 92
Mean −1.926
Std Dev 0

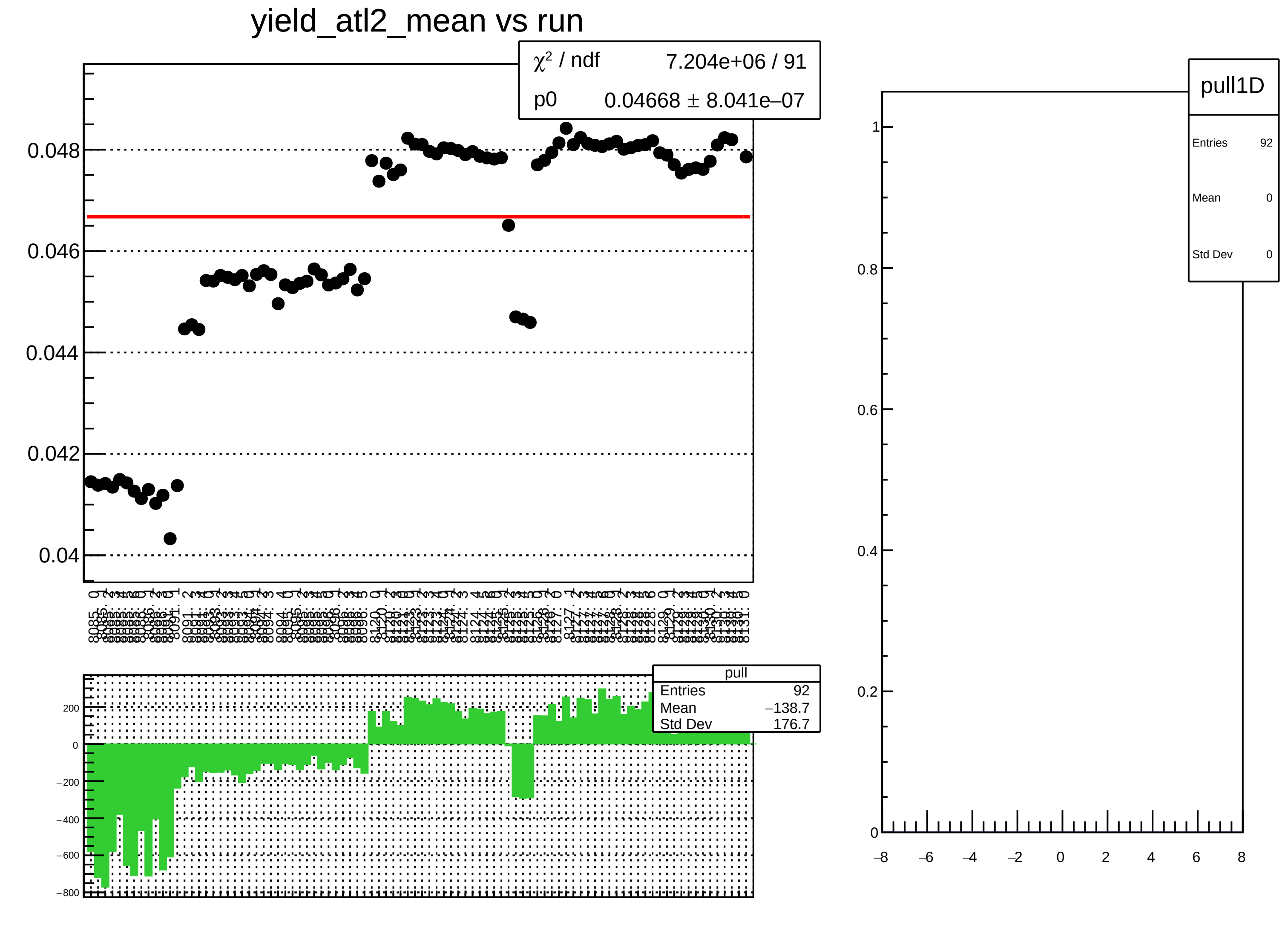

yield_dsr_rms vs run
χ2 / ndf
3.943e+04 / 91
p0
0.04872 ± 3.628e−05
0.08
0.07
0.06
0.05
0.04



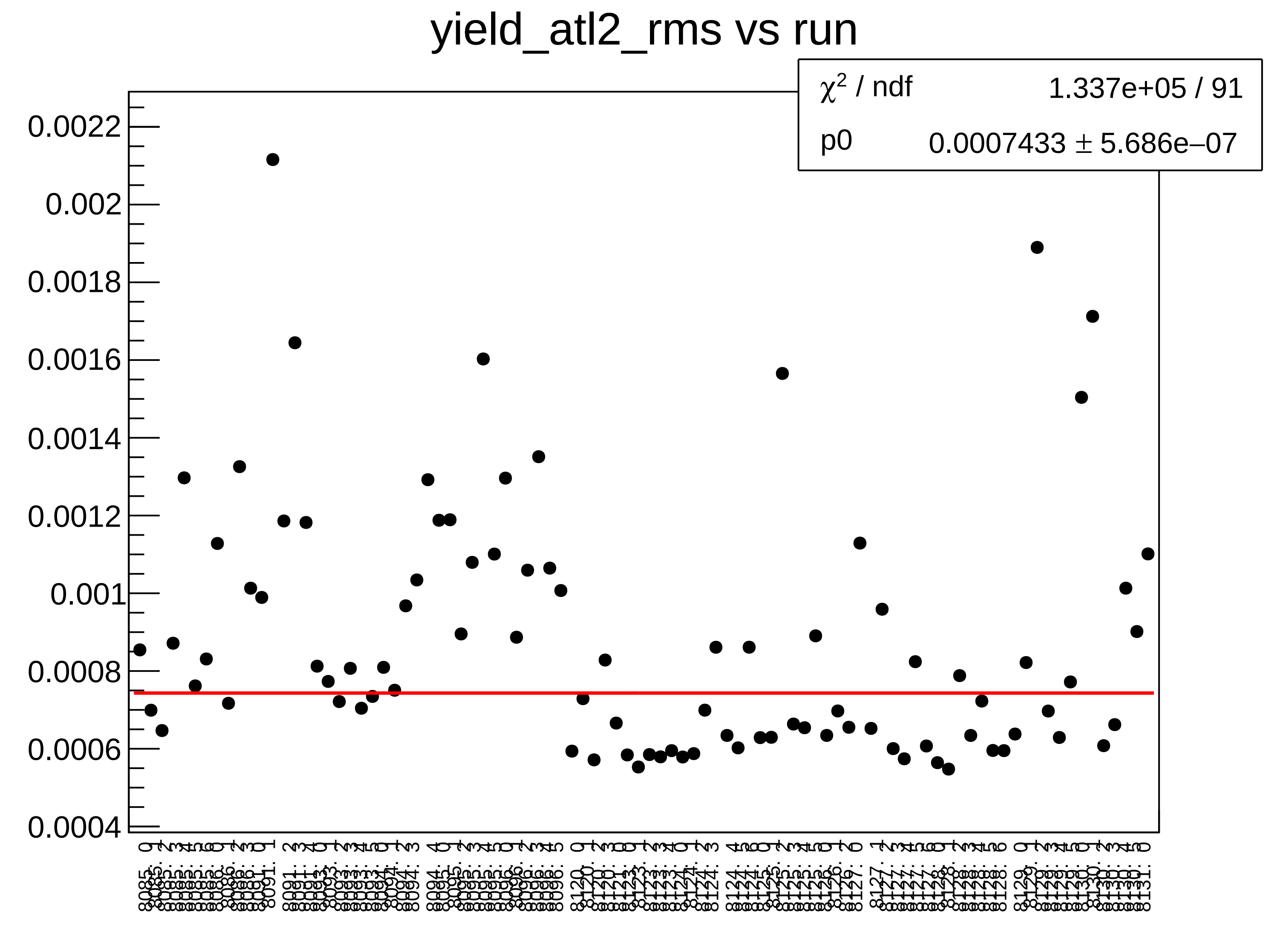
yield_atl1_mean vs run
χ² / ndf 9.748e+06 / 91
p0 0.02661 ± 1.122e−07
0.0272
0.027
0.0268
0.0266
0.0264
0.0262
pull
Entries 92
Mean 323.7
Std Dev 281.6
800
600
400
200
0
−200
−400
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



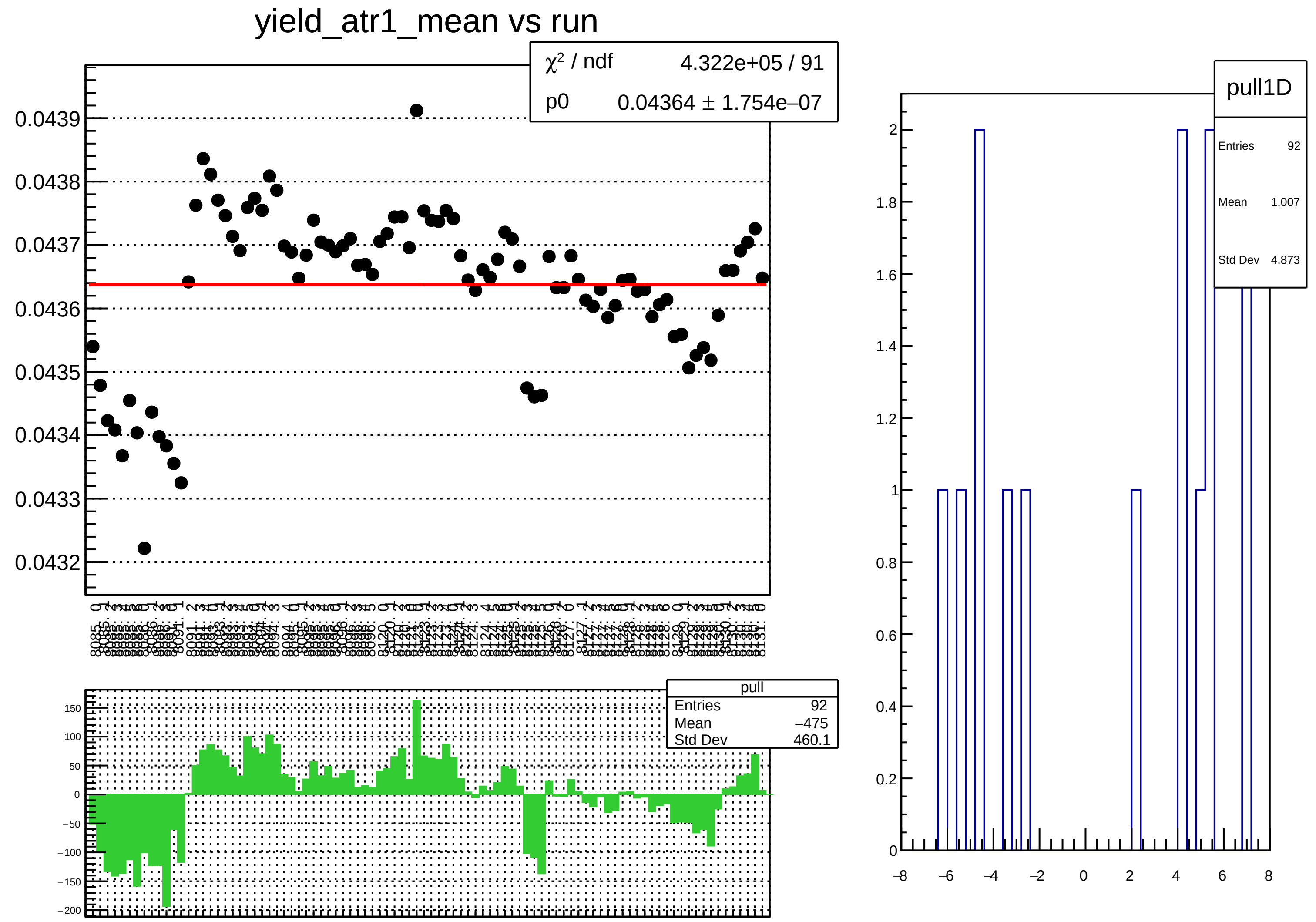
yield_atl1_rms vs run
×10^-3
χ2 / ndf 1.006e+05 / 91
p0 0.0001047 ± 7.931e−08
0.35
0.3
0.25
0.2
0.15
0.1
0.05



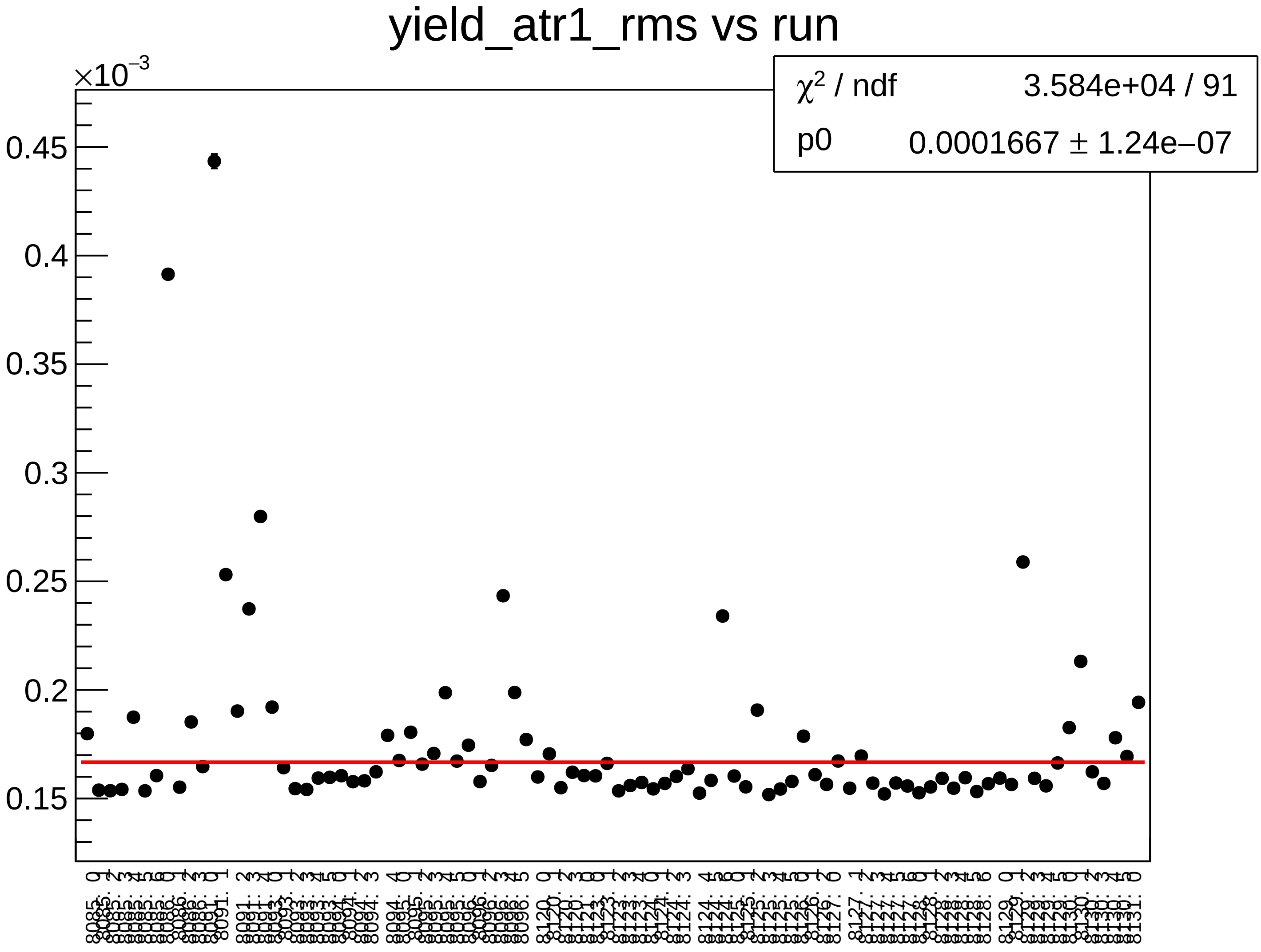
yield_atl2_mean vs run
χ2 / ndf 7.204e+06 / 91
p0 0.04668 ± 8.041e−07
0.048
0.046
0.044
0.042
0.04
pull
Entries 92
Mean −138.7
Std Dev 176.7
200
0
−200
−400
−600
−800
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



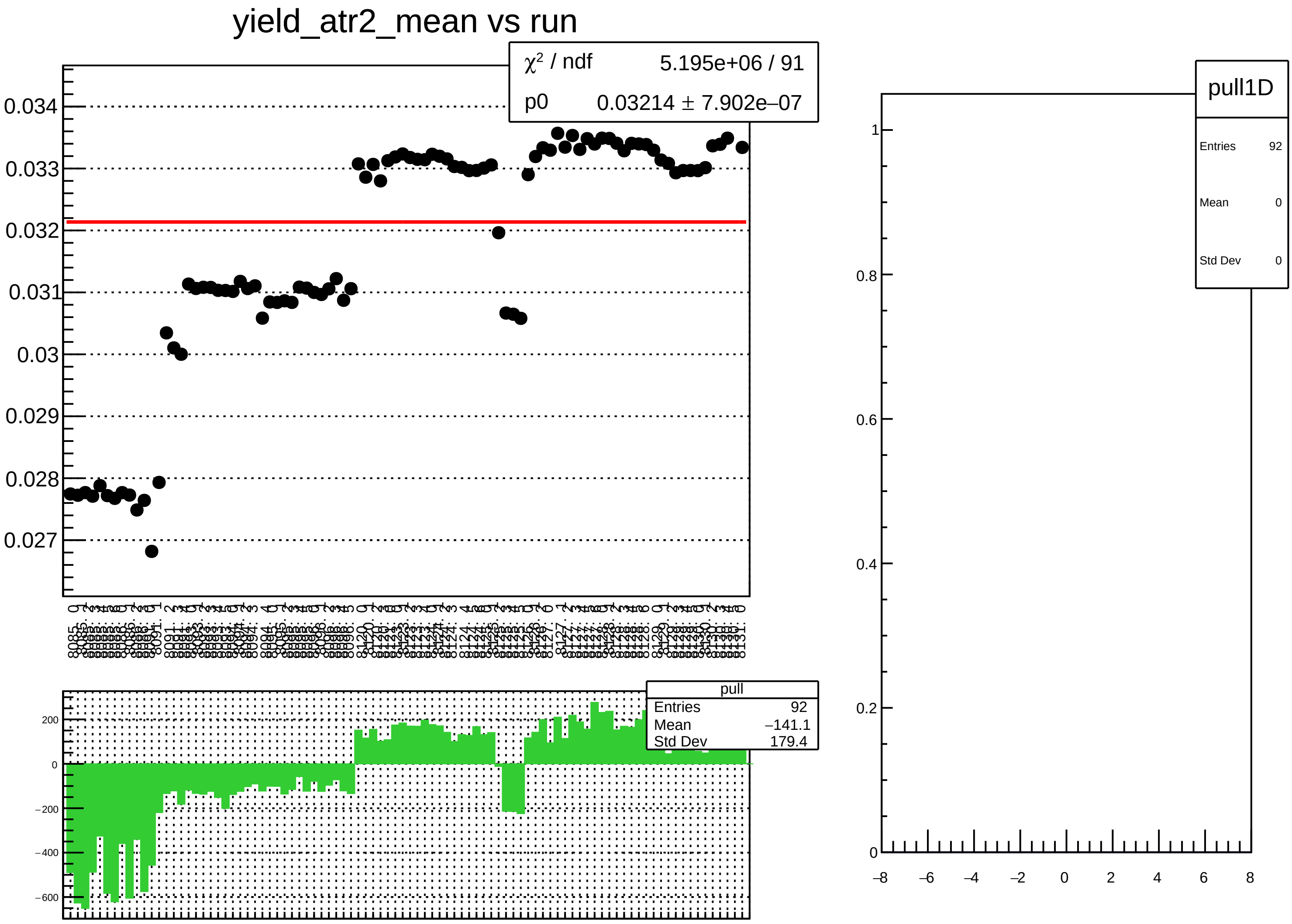
yield_atl2_rms vs run
χ2 / ndf 1.337e+05 / 91
p0 0.0007433 ± 5.686e−07
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

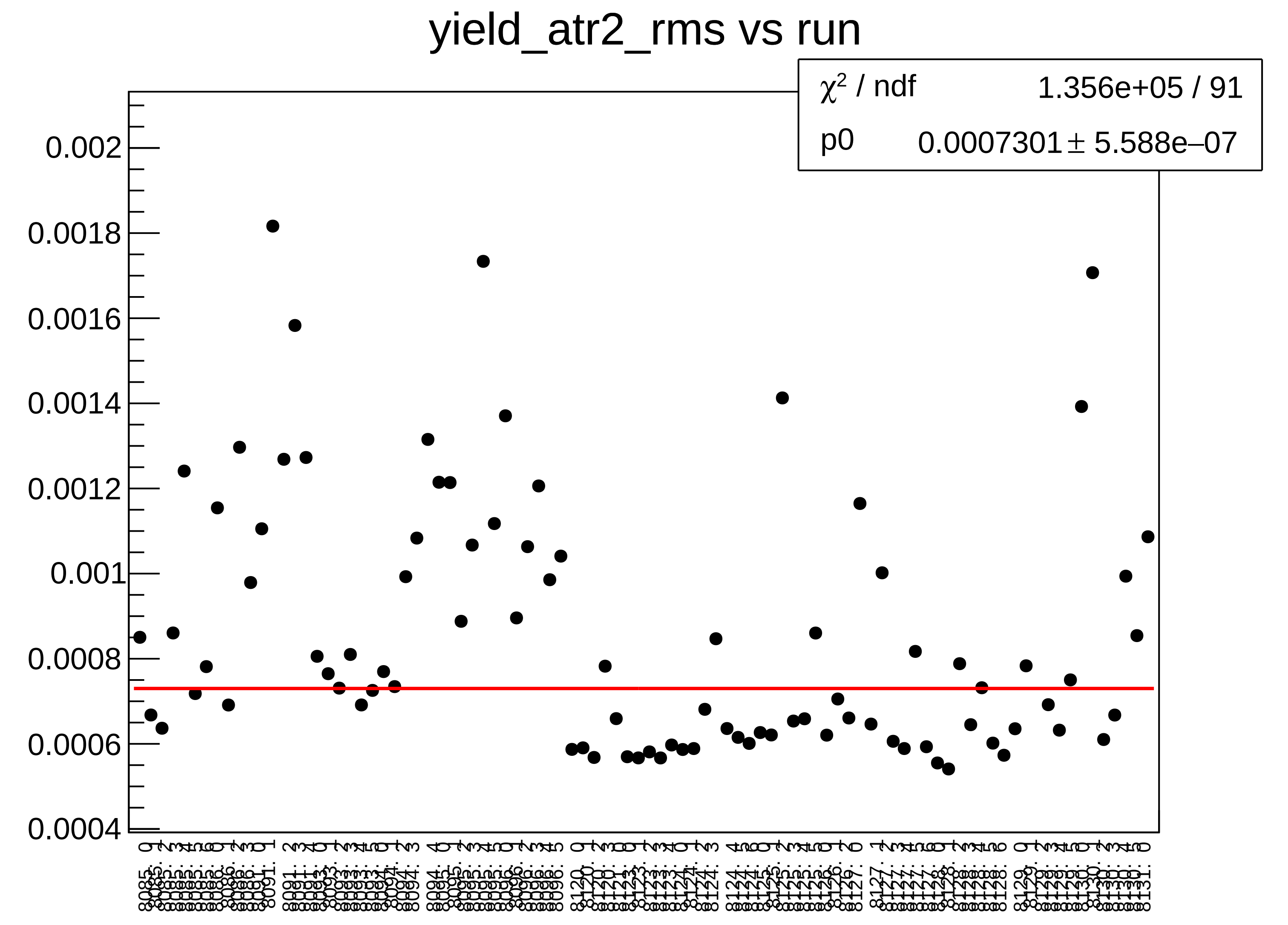


yield_atr1_mean vs run
χ² / ndf 4.322e+05 / 91
p0 0.04364 ± 1.754e−07
0.0439
0.0438
0.0437
0.0436
0.0435
0.0434
0.0433
0.0432
pull
Entries 92
Mean −475
Std Dev 460.1
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 92
Mean 1.007
Std Dev 4.873
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

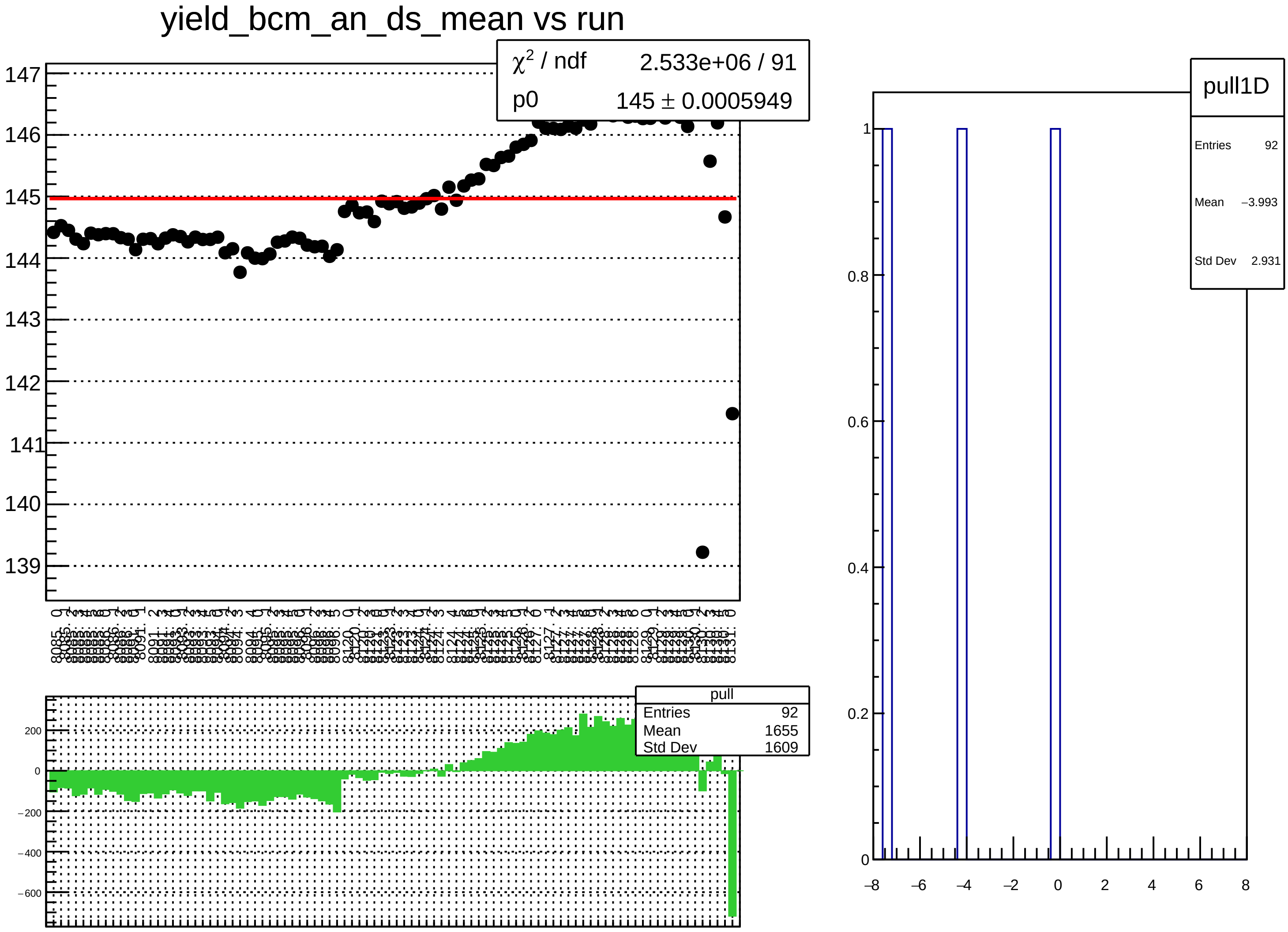


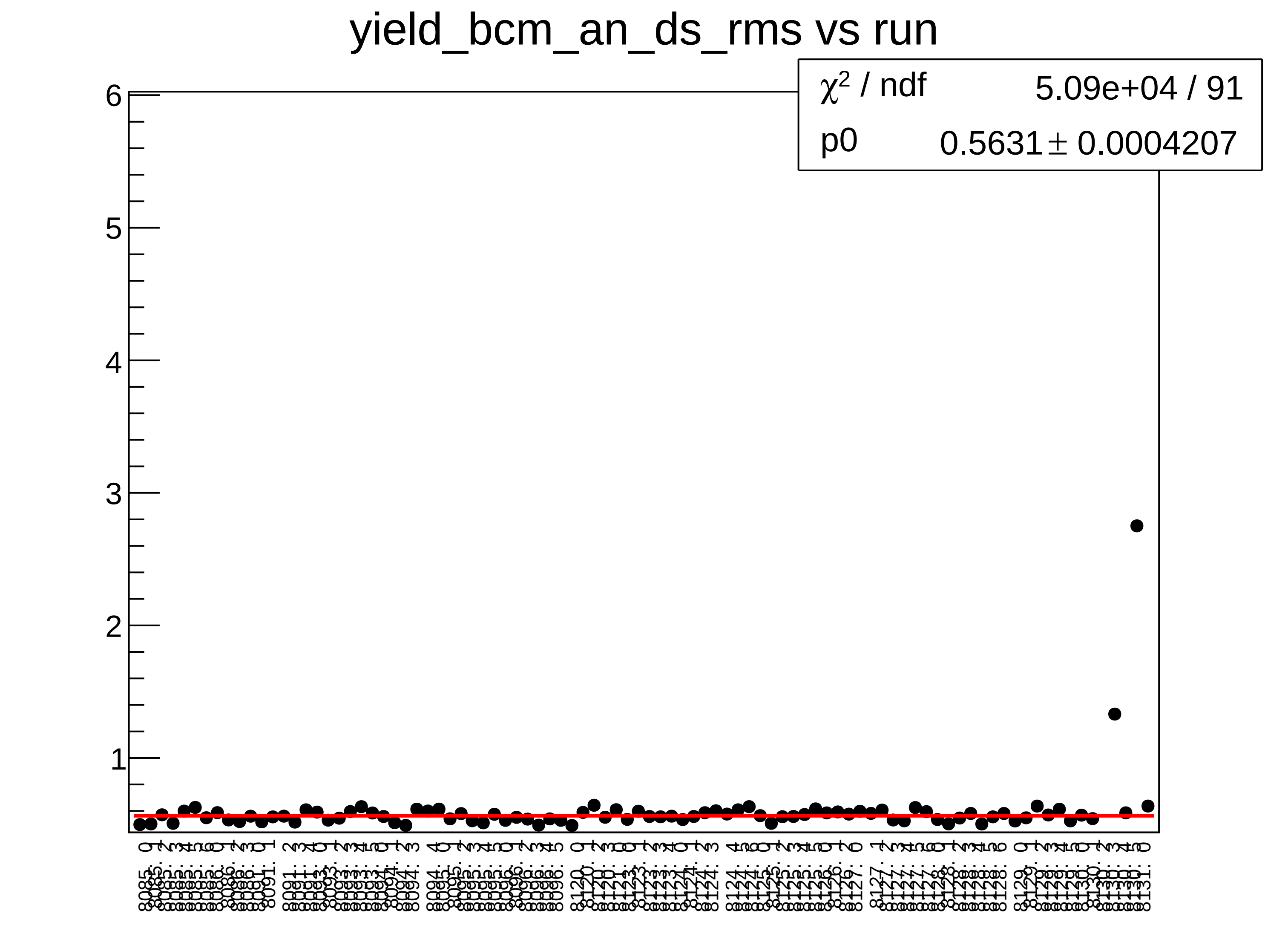
yield_atr1_rms vs run
×10⁻³
χ² / ndf 3.584e+04 / 91
p0 0.0001667 ± 1.24e−07
0.45
0.4
0.35
0.3
0.25
0.2
0.15

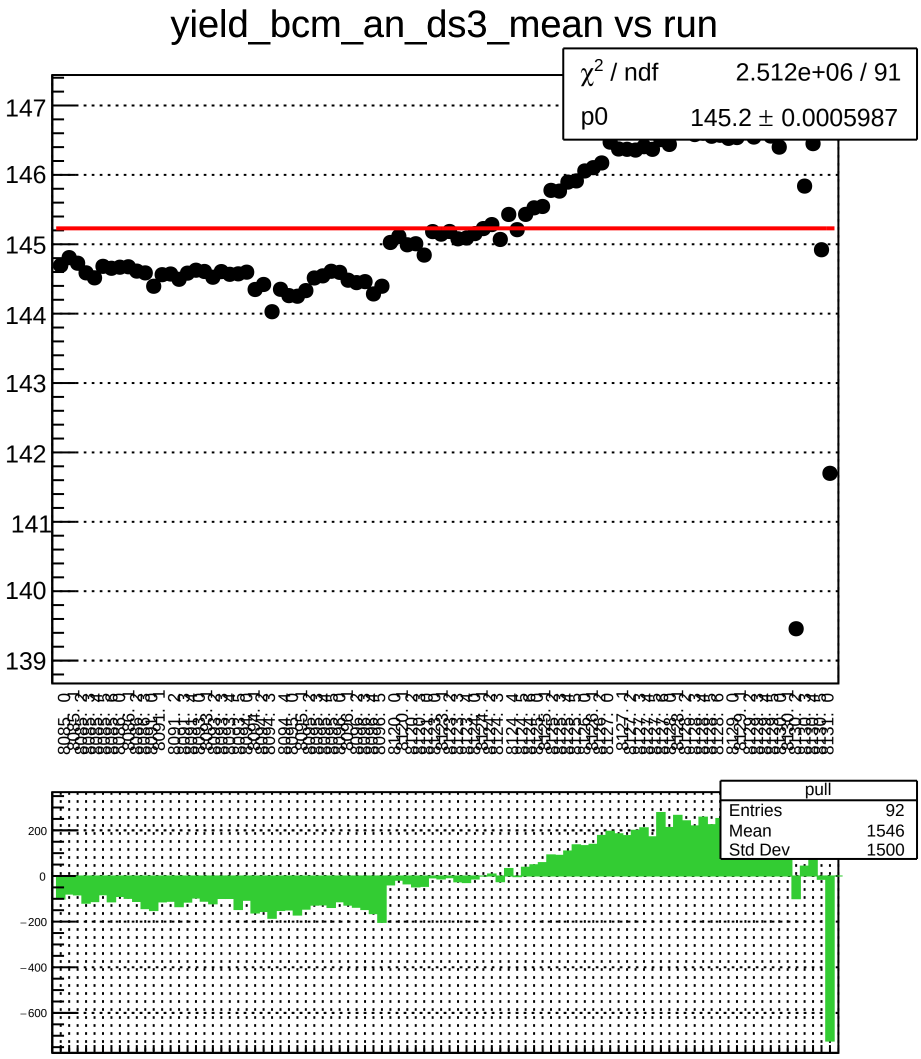

yield_atr2_mean vs run
χ2 / ndf 5.195e+06 / 91
p0 0.03214 ± 7.902e−07
pull
Entries 92
Mean −141.1
Std Dev 179.4
pull1D
Entries 92
Mean 0
Std Dev 0

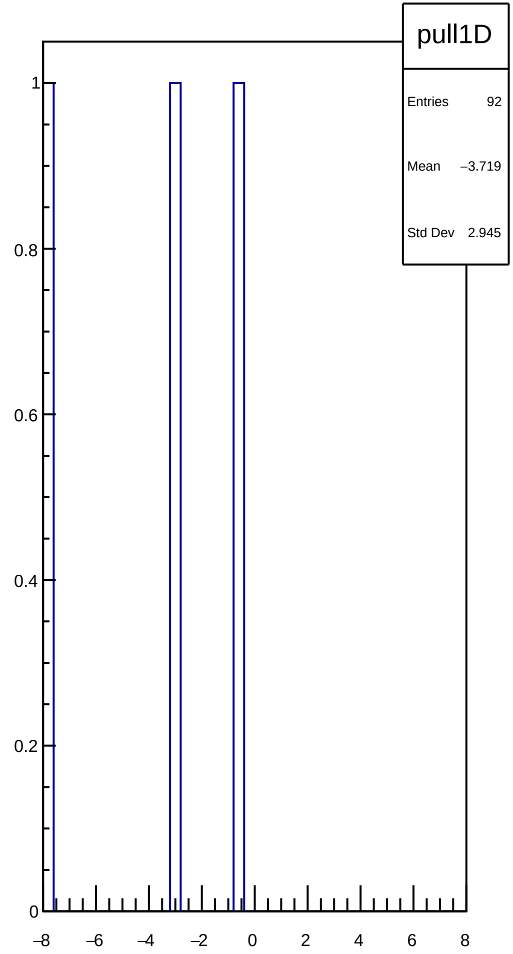


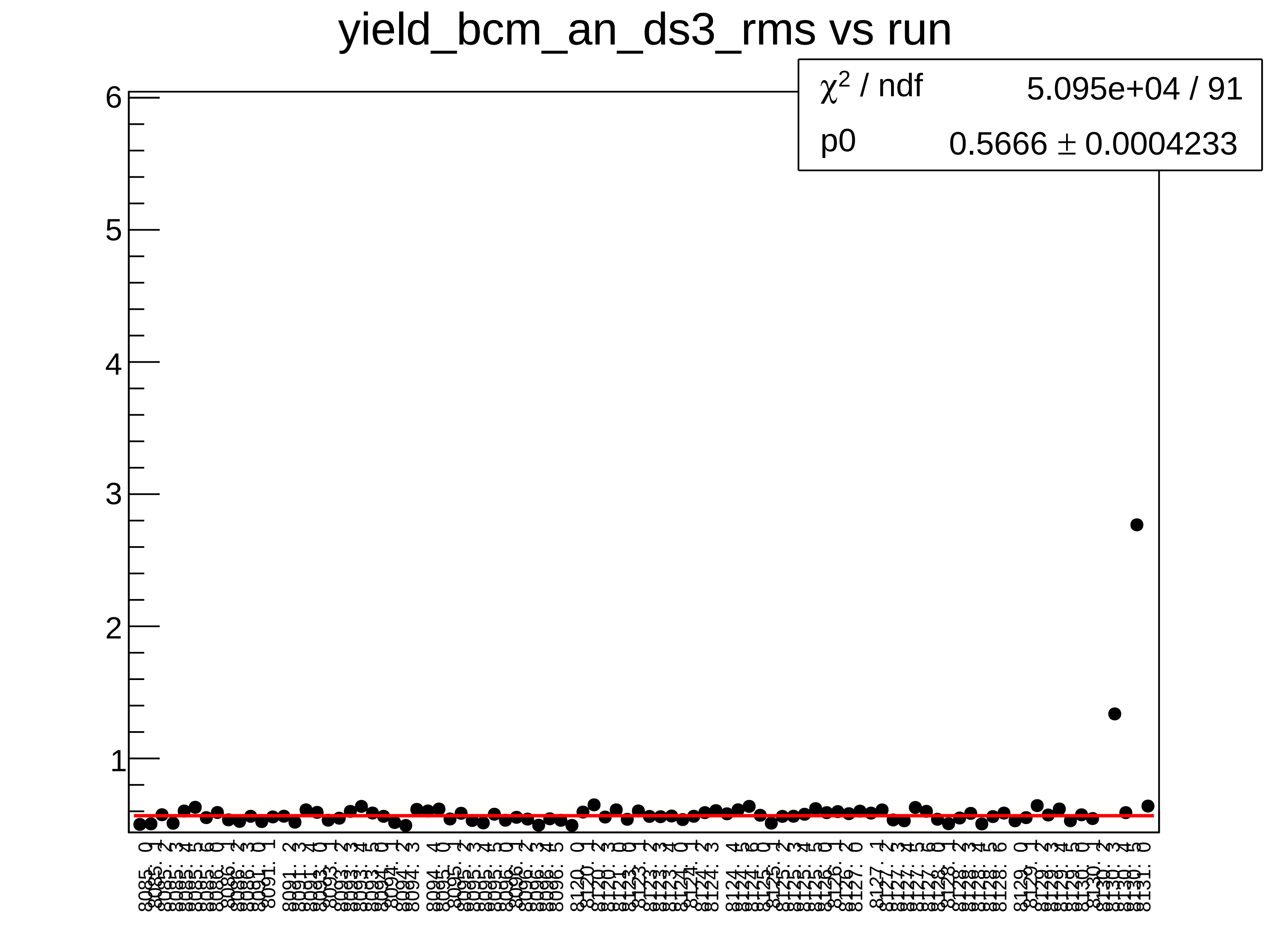
yield_atr2_rms vs run
χ^2 / ndf 1.356e+05 / 91
p0 0.0007301 ± 5.588e–07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004


yield_bcm_an_ds_mean vs run
χ^2 / ndf 2.533e+06 / 91
p0 145 ± 0.0005949
147
146
145
144
143
142
141
140
139
pull
Entries 92
Mean 1655
Std Dev 1609
200
0
−200
−400
−600
pull1D
Entries 92
Mean −3.993
Std Dev 2.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

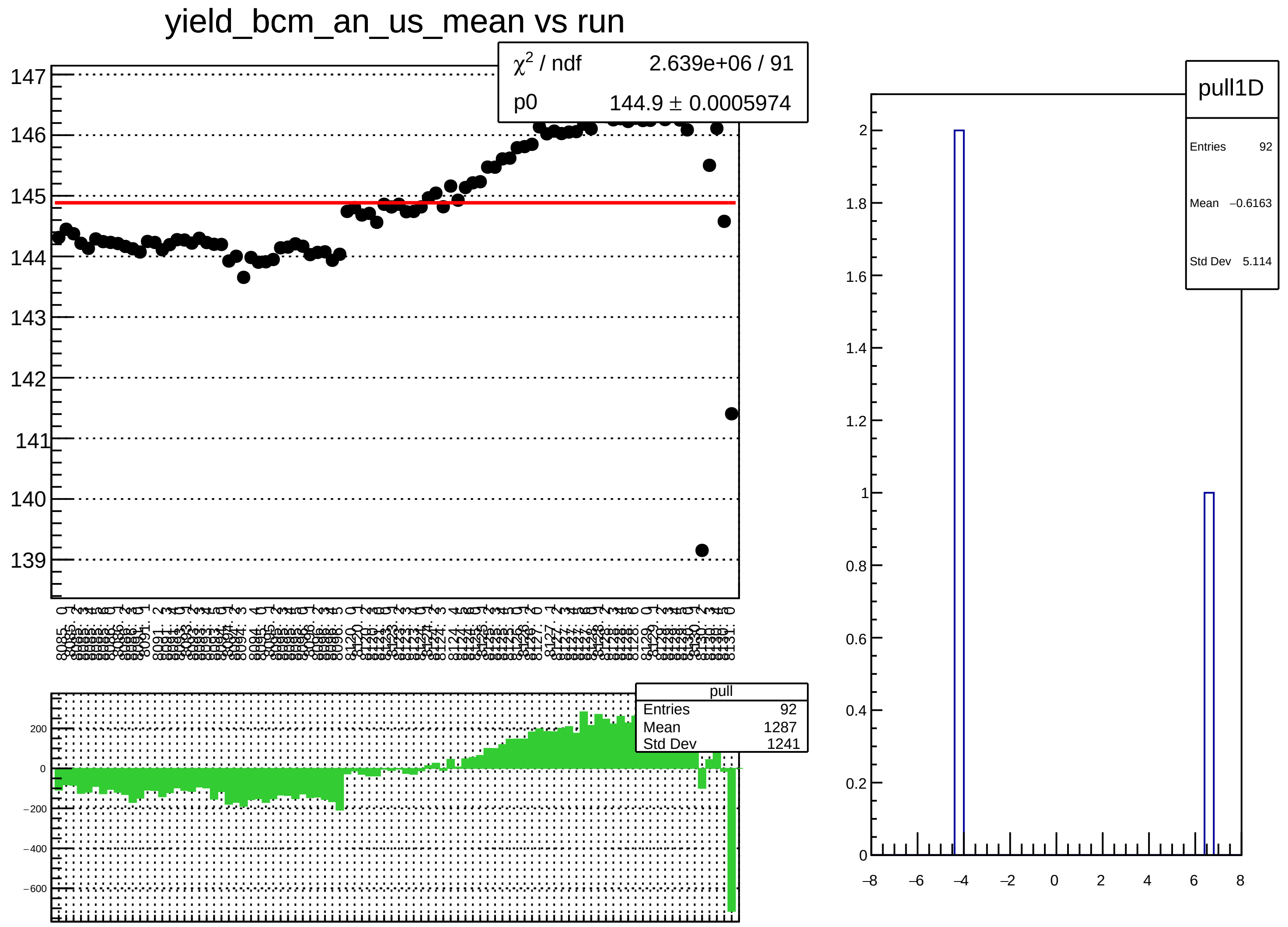

yield_bcm_an_ds_rms vs run
χ2 / ndf 5.09e+04 / 91
p0 0.5631 ± 0.0004207
6
5
4
3
2
1

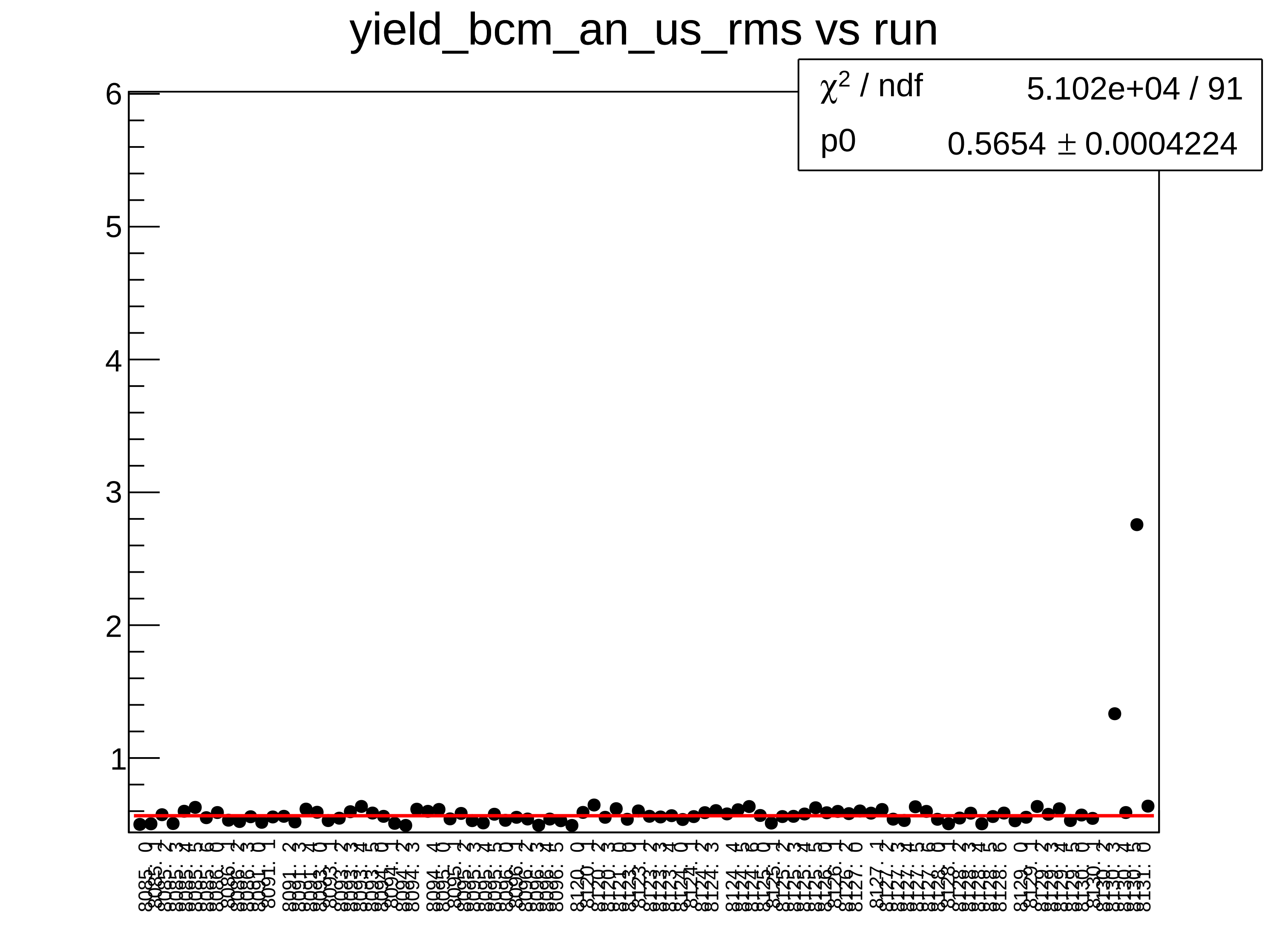

yield_bcm_an_ds3_mean vs run
χ^2 / ndf 2.512e+06 / 91
p0 145.2 ± 0.0005987
147
146
145
144
143
142
141
140
139
pull
Entries 92
Mean 1546
Std Dev 1500
200
0
−200
−400
−600


pull1D
Entries 92
Mean −3.719
Std Dev 2.945
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

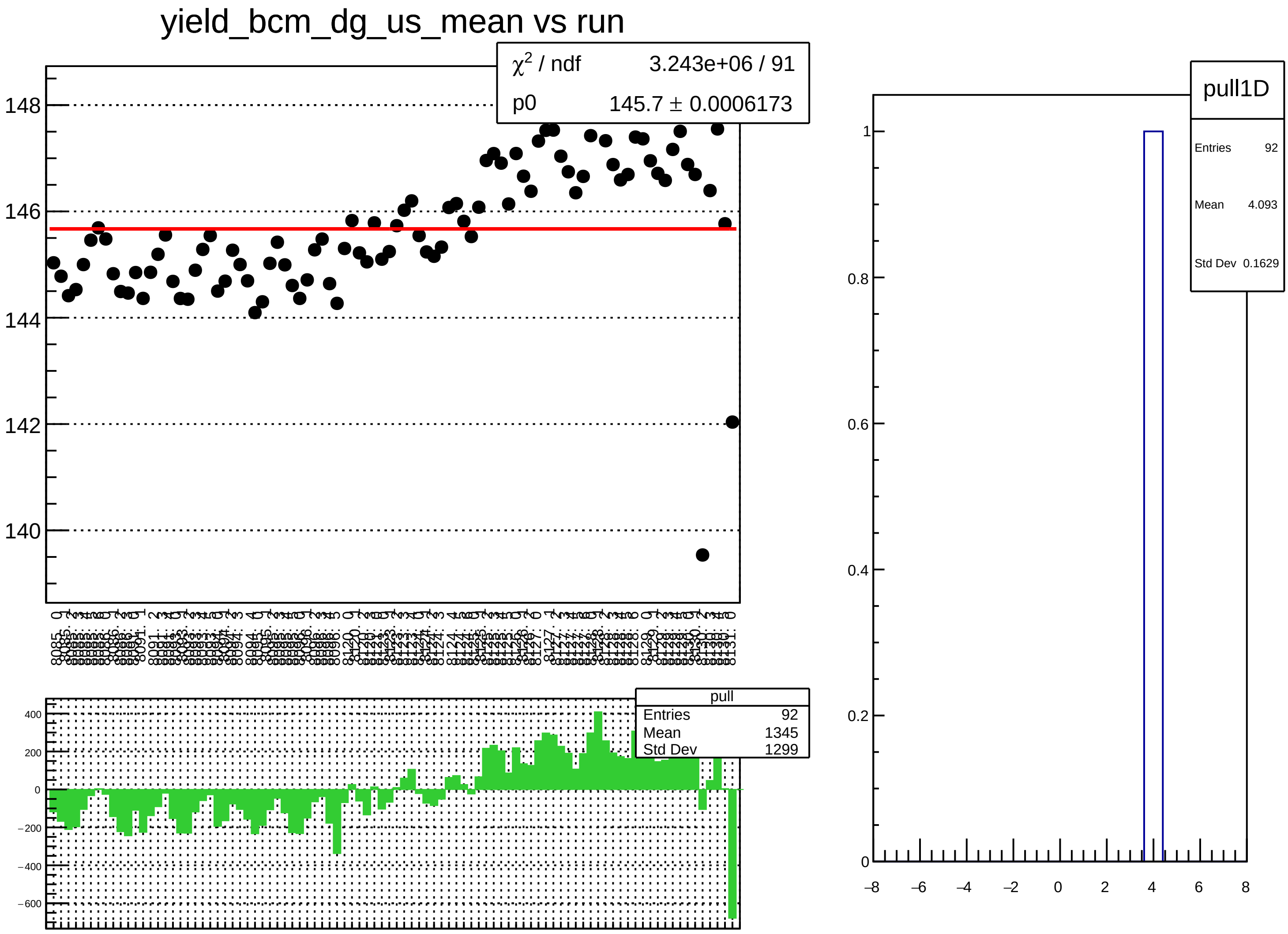


yield_bcm_an_ds3_rms vs run
χ2 / ndf 5.095e+04 / 91
p0 0.5666 ± 0.0004233

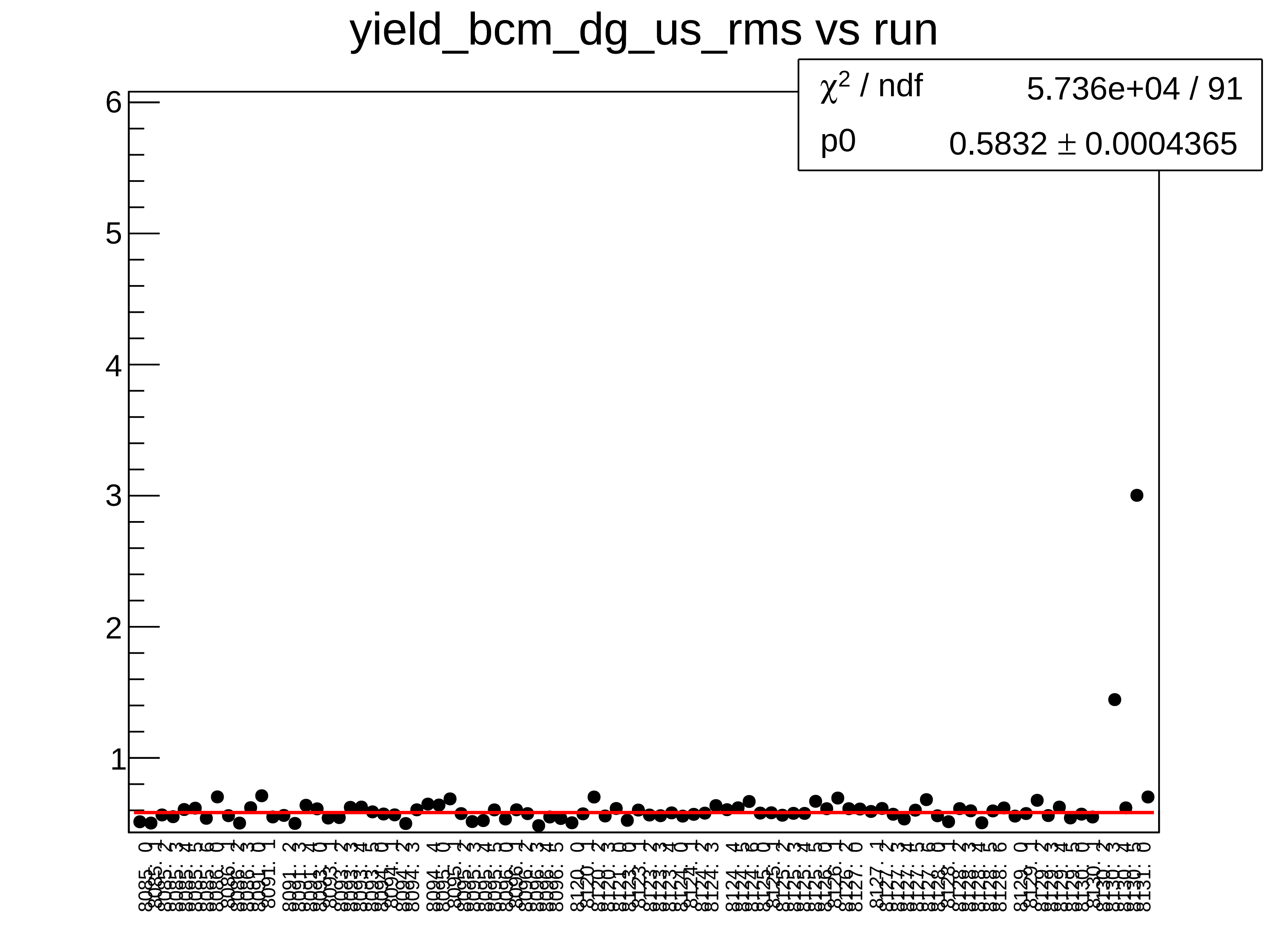

yield_bcm_an_us_mean vs run
χ^2 / ndf 2.639e+06 / 91
p0 144.9 ± 0.0005974
147
146
145
144
143
142
141
140
139
pull
Entries 92
Mean 1287
Std Dev 1241
200
0
−200
−400
−600
pull1D
Entries 92
Mean −0.6163
Std Dev 5.114
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



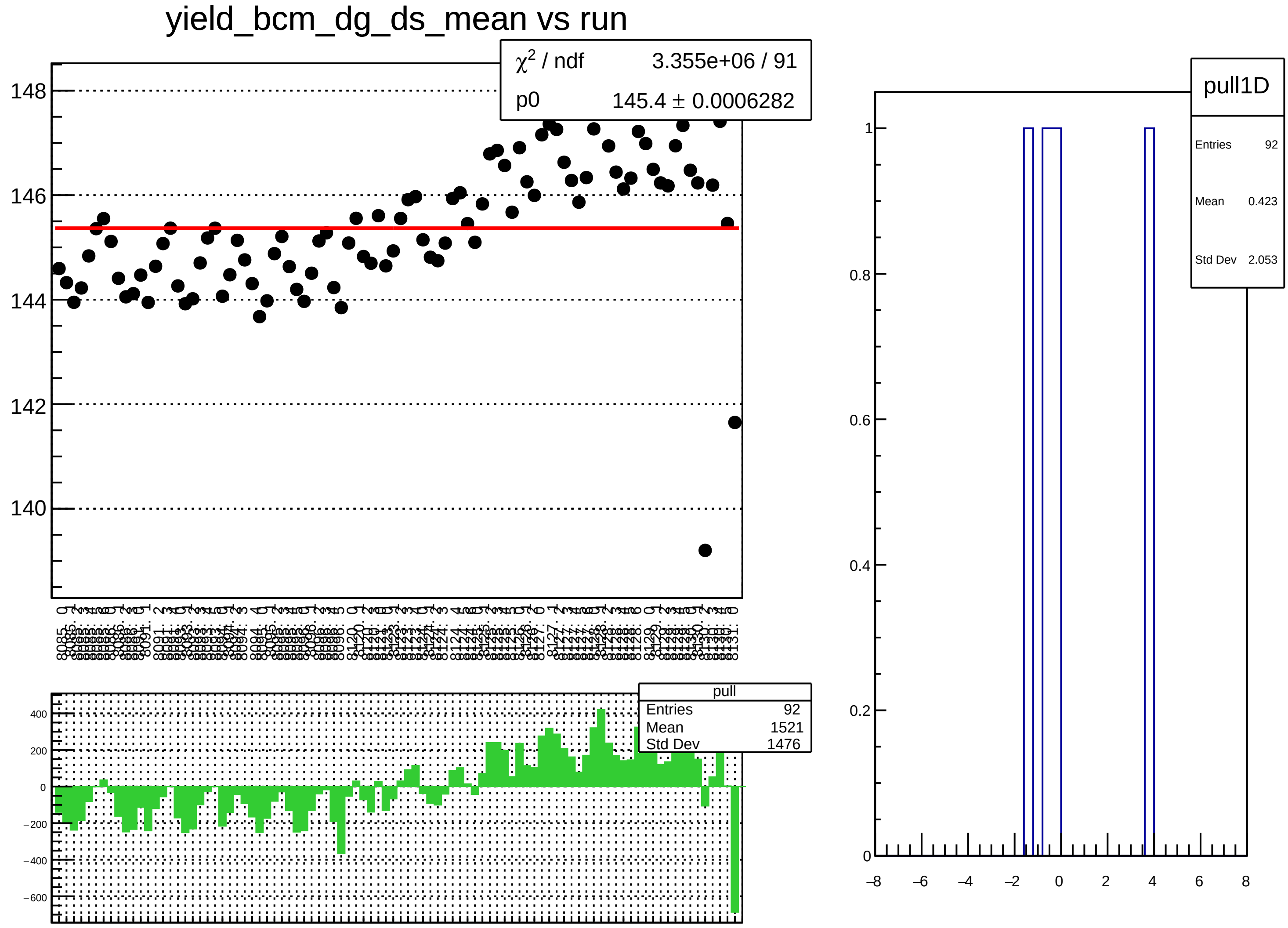
yield_bcm_an_us_rms vs run
χ^2 / ndf 5.102e+04 / 91
p0 0.5654 ± 0.0004224



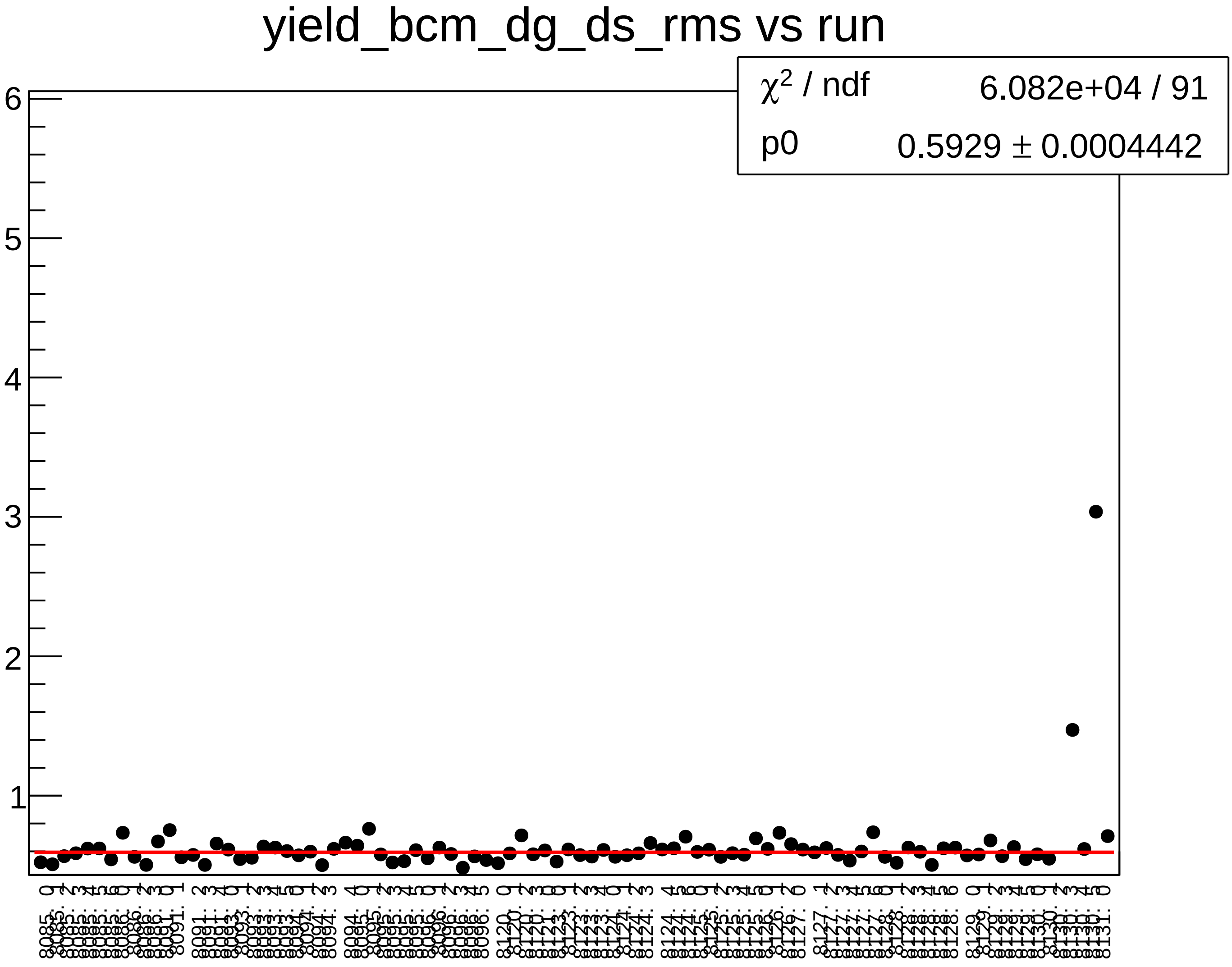
yield_bcm_dg_us_mean vs run
χ^2 / ndf 3.243e+06 / 91
p0 145.7 ± 0.0006173
148
146
144
142
140
pull
Entries 92
Mean 1345
Std Dev 1299
400
200
0
−200
−400
−600
pull1D
Entries 92
Mean 4.093
Std Dev 0.1629
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



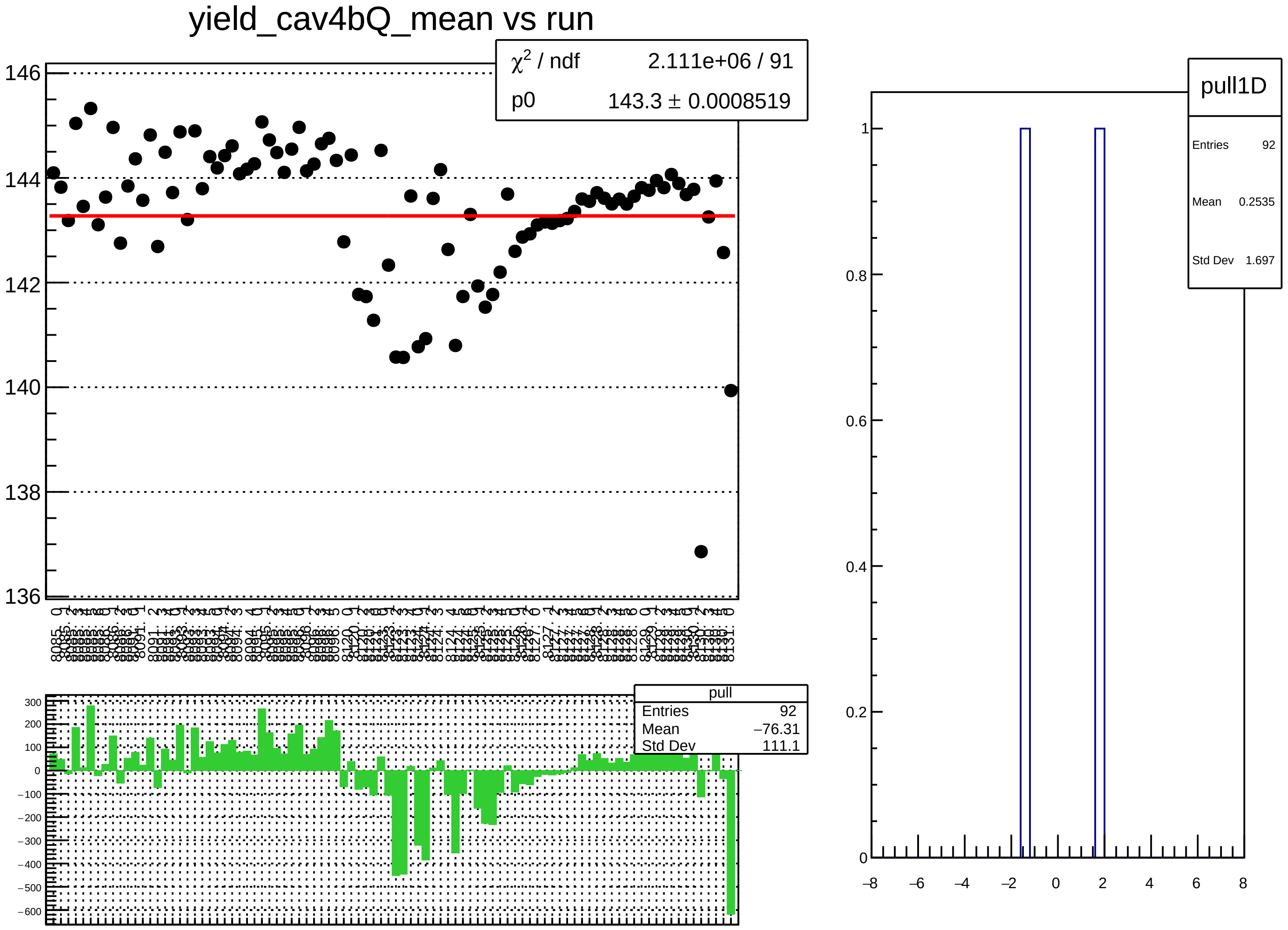
yield_bcm_dg_us_rms vs run
χ2 / ndf 5.736e+04 / 91
p0 0.5832 ± 0.0004365
6
5
4
3
2
1



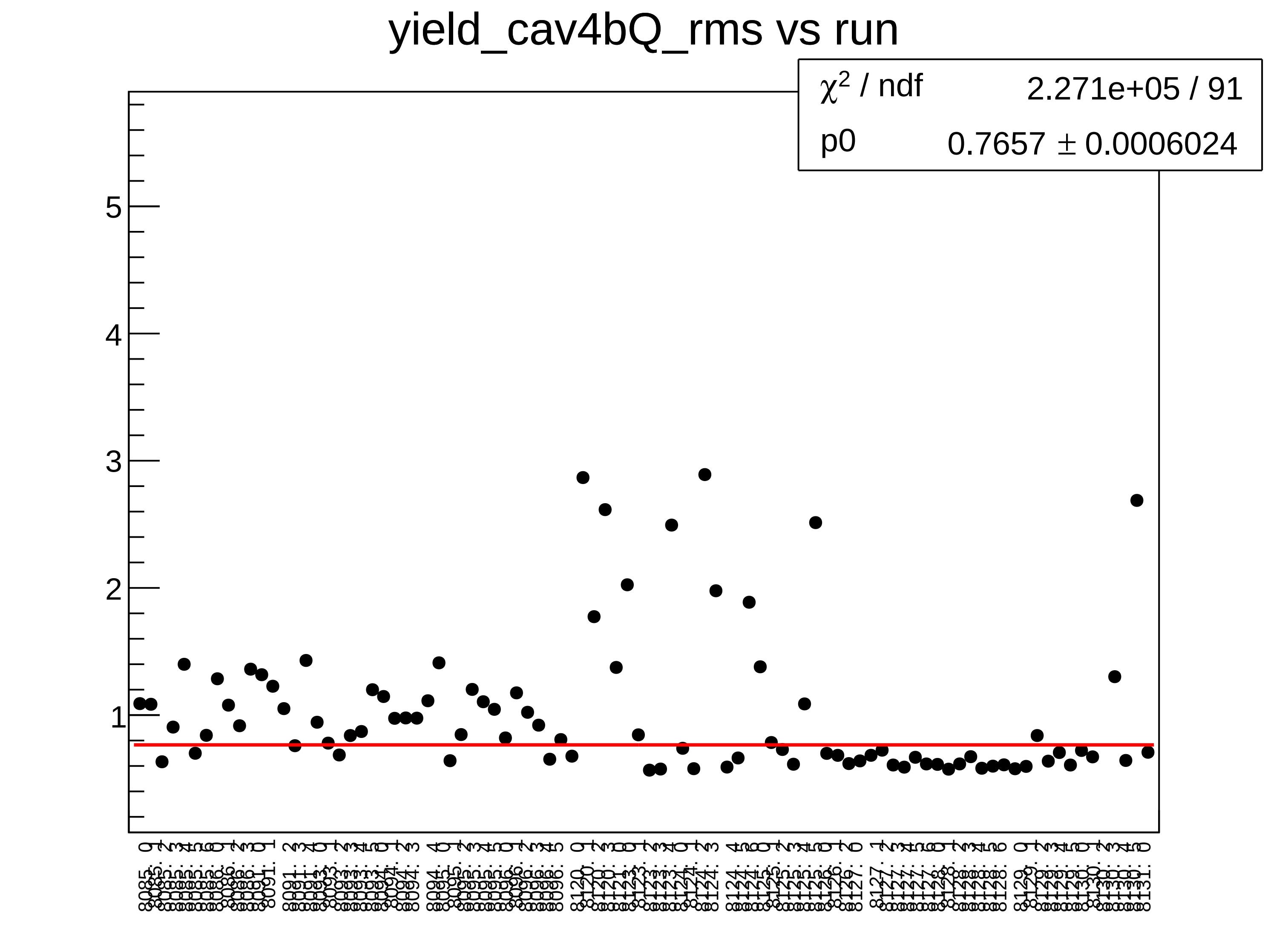
yield_bcm_dg_ds_mean vs run
χ^2 / ndf 3.355e+06 / 91
p0 145.4 ± 0.0006282
pull
Entries 92
Mean 1521
Std Dev 1476
pull1D
Entries 92
Mean 0.423
Std Dev 2.053



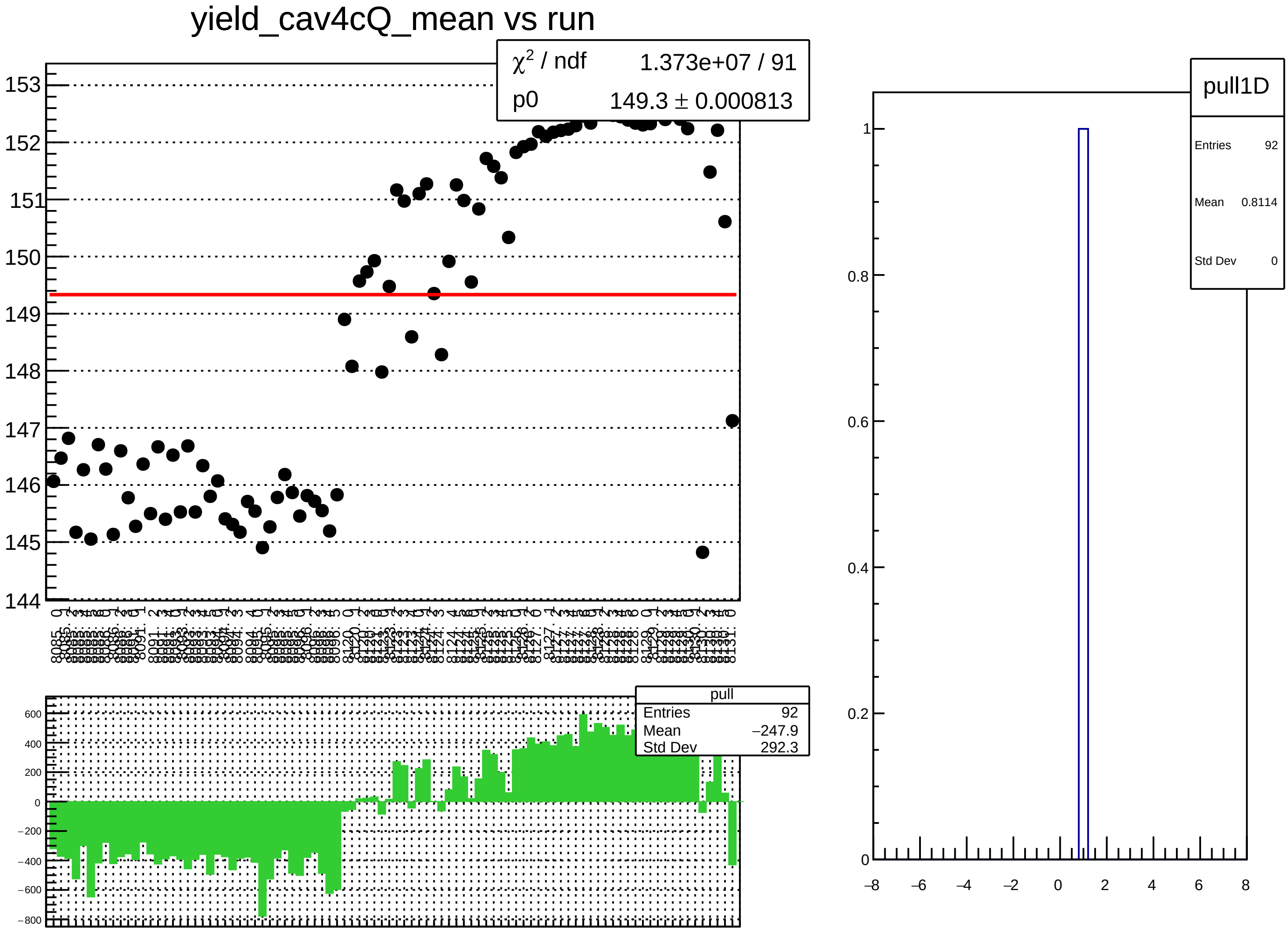
yield_bcm_dg_ds_rms vs run
χ^2 / ndf 6.082e+04 / 91
p0 0.5929 ± 0.0004442
6
5
4
3
2
1



yield_cav4bQ_mean vs run
χ^2 / ndf 2.111e+06 / 91
p0 143.3 ± 0.0008519
146
144
142
140
138
136
pull
Entries 92
Mean −76.31
Std Dev 111.1
300
200
100
0
−100
−200
−300
−400
−500
−600
pull1D
Entries 92
Mean 0.2535
Std Dev 1.697
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

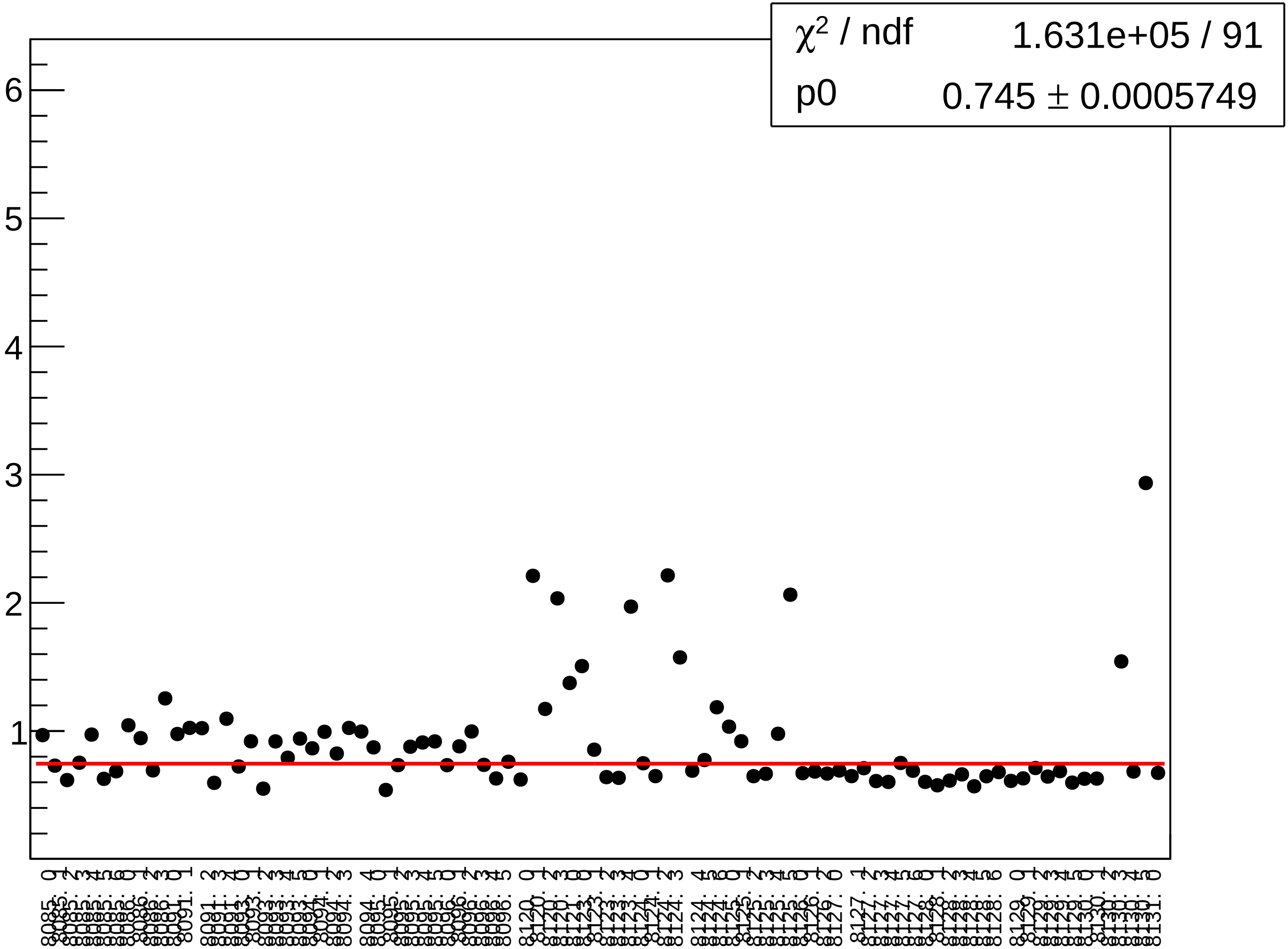


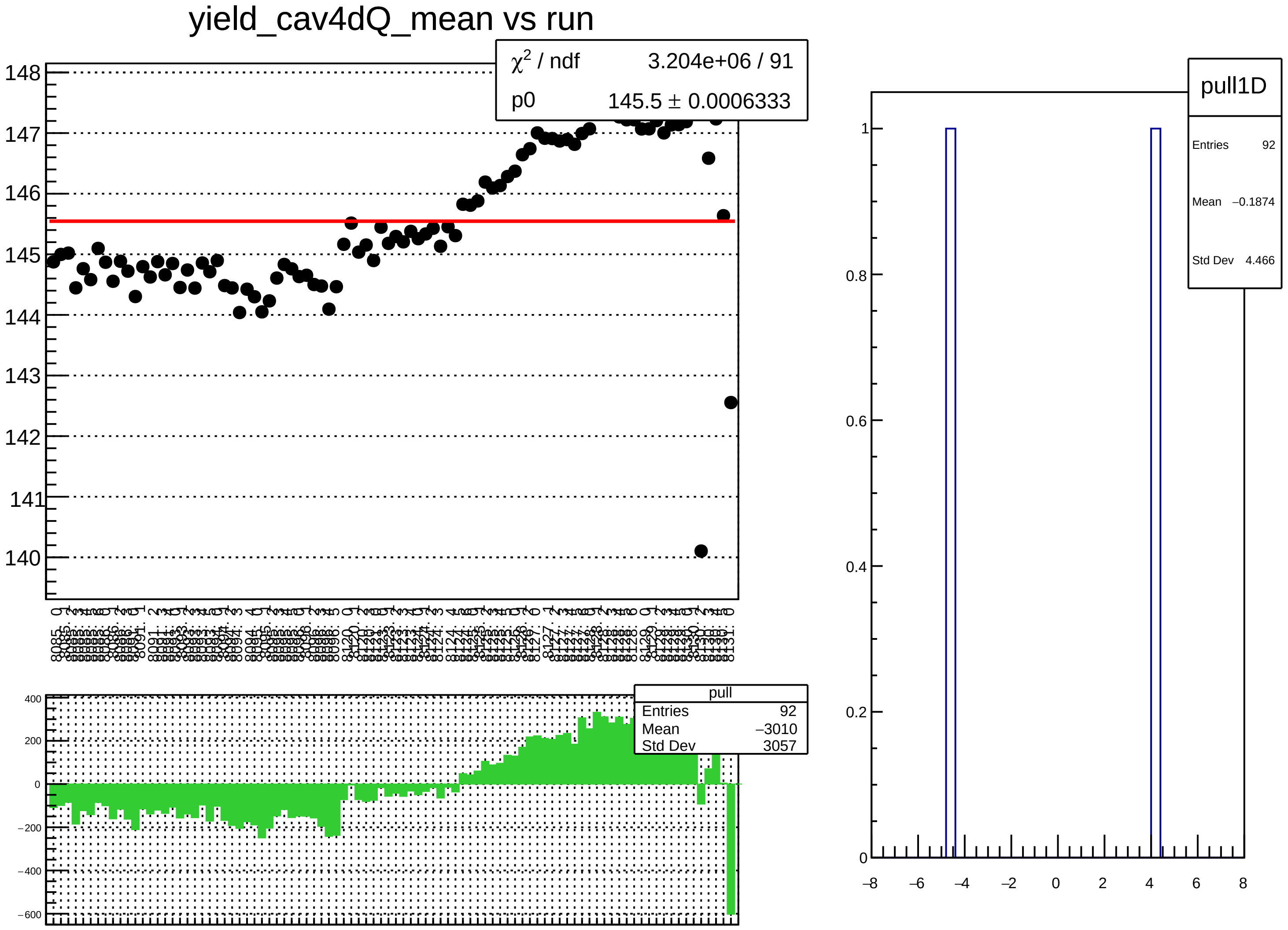
yield_cav4bQ_rms vs run
χ^2 / ndf 2.271e+05 / 91
p0 0.7657 ± 0.0006024
1
2
3
4
5



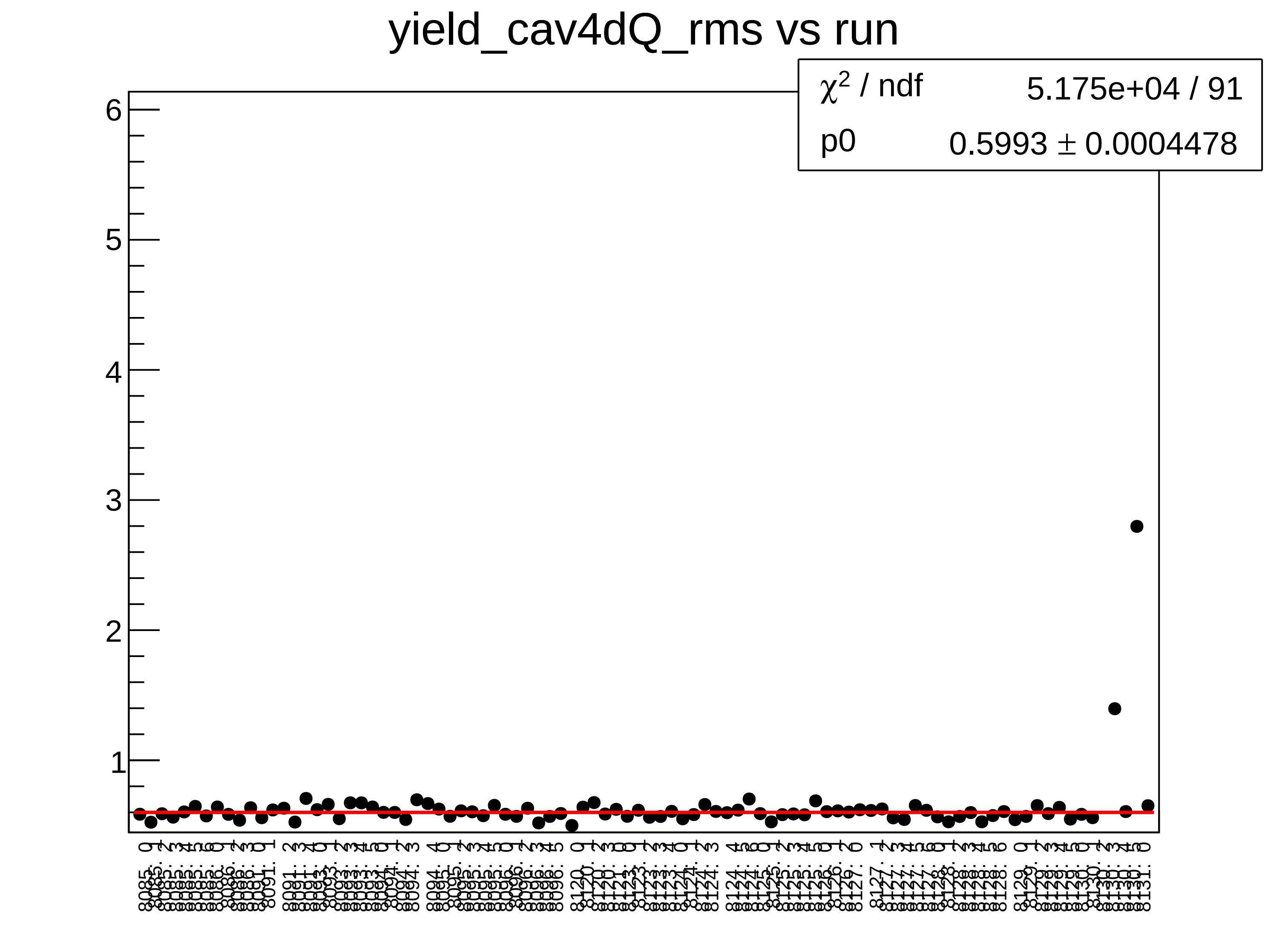
yield_cav4cQ_mean vs run
χ^2 / ndf 1.373e+07 / 91
p0 149.3 ± 0.000813
pull
Entries 92
Mean −247.9
Std Dev 292.3
pull1D
Entries 92
Mean 0.8114
Std Dev 0

yield_cav4cQ_rms vs run

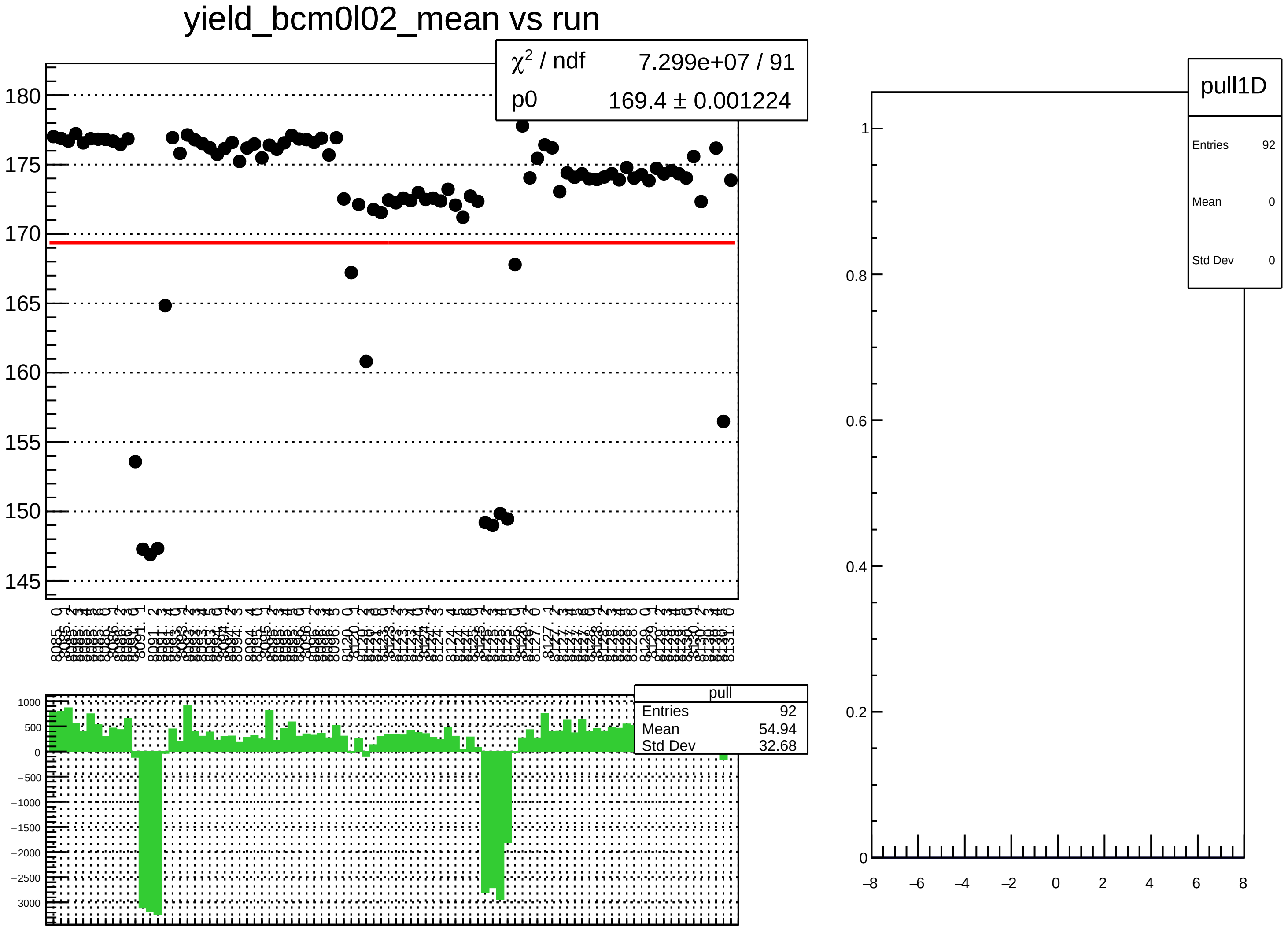


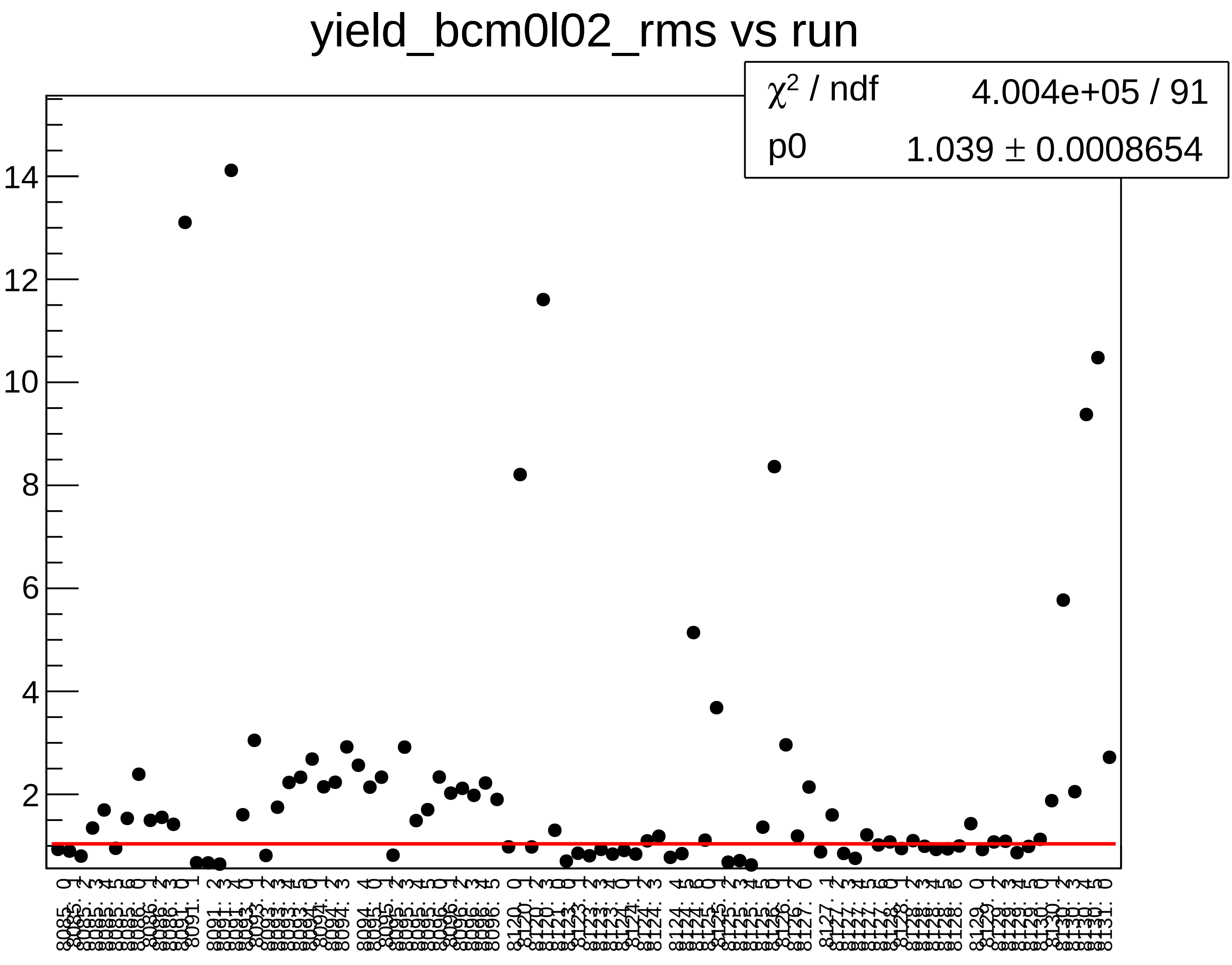


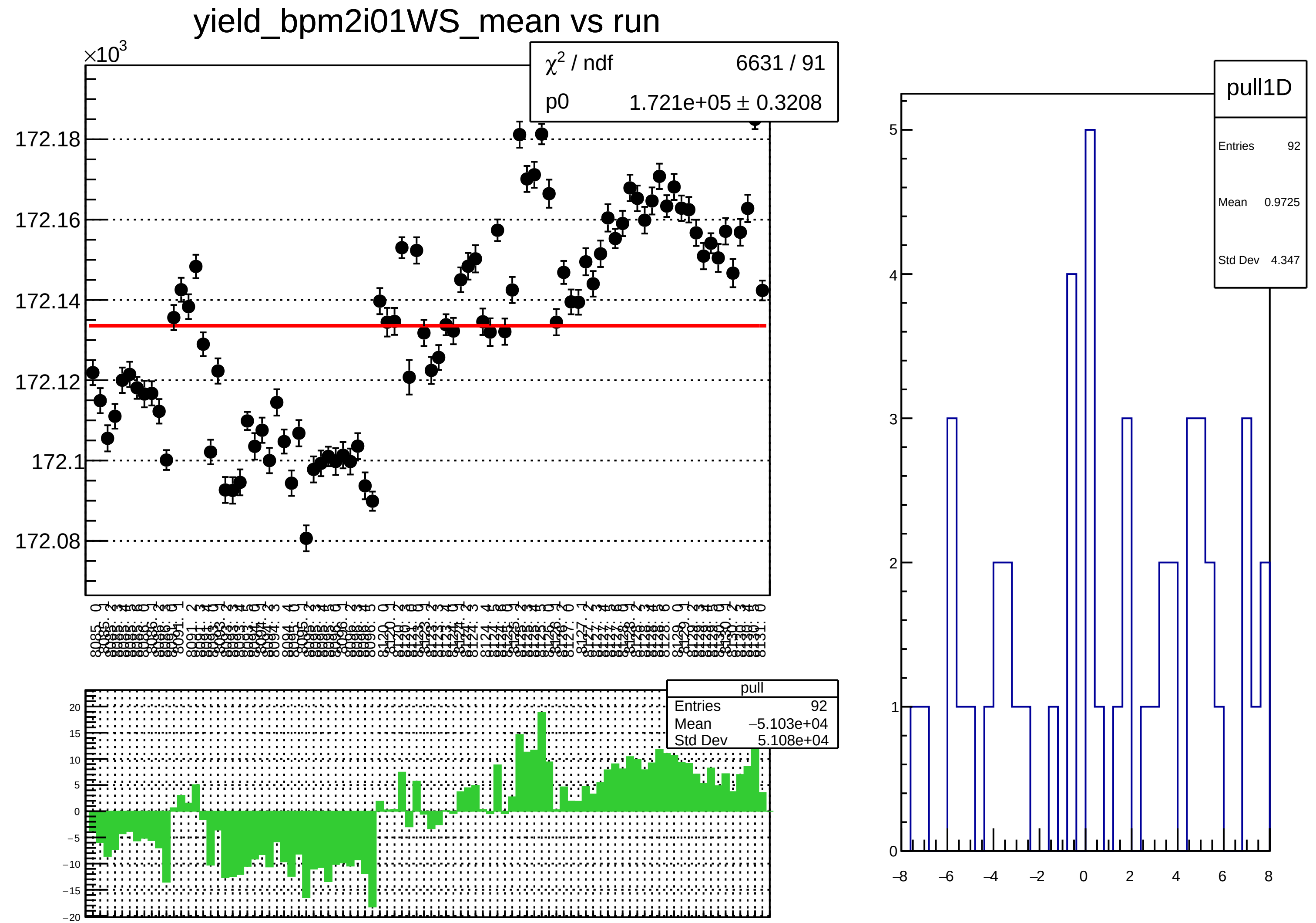
yield_cav4dQ_mean vs run
χ^2 / ndf 3.204e+06 / 91
p0 145.5 ± 0.0006333
pull
Entries 92
Mean −3010
Std Dev 3057
pull1D
Entries 92
Mean −0.1874
Std Dev 4.466



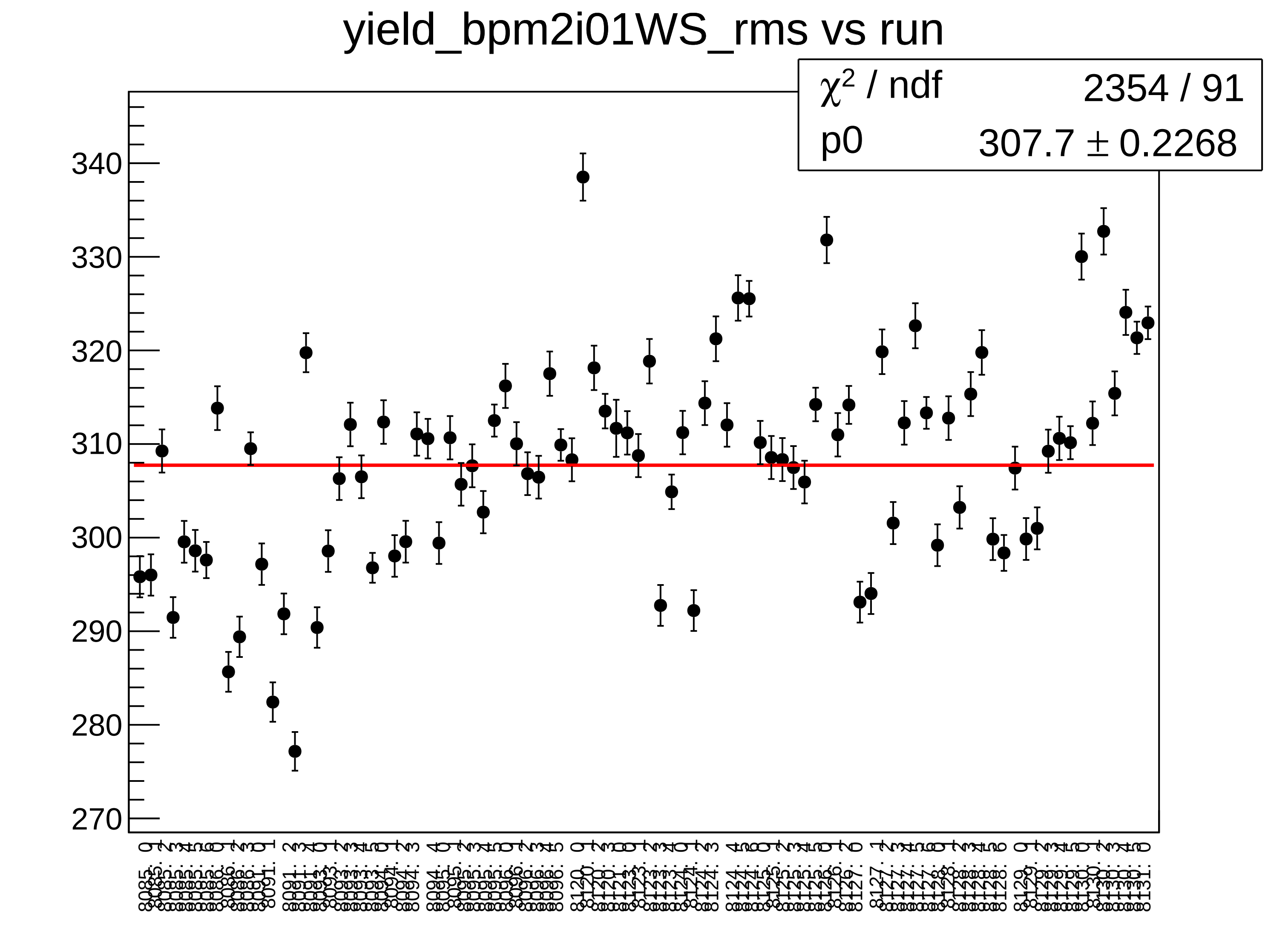
yield_cav4dQ_rms vs run
χ2 / ndf 5.175e+04 / 91
p0 0.5993 ± 0.0004478
6
5
4
3
2
1


yield_bcm0l02_mean vs run
χ^2 / ndf 7.299e+07 / 91
p0 169.4 ± 0.001224
pull
Entries 92
Mean 54.94
Std Dev 32.68
pull1D
Entries 92
Mean 0
Std Dev 0

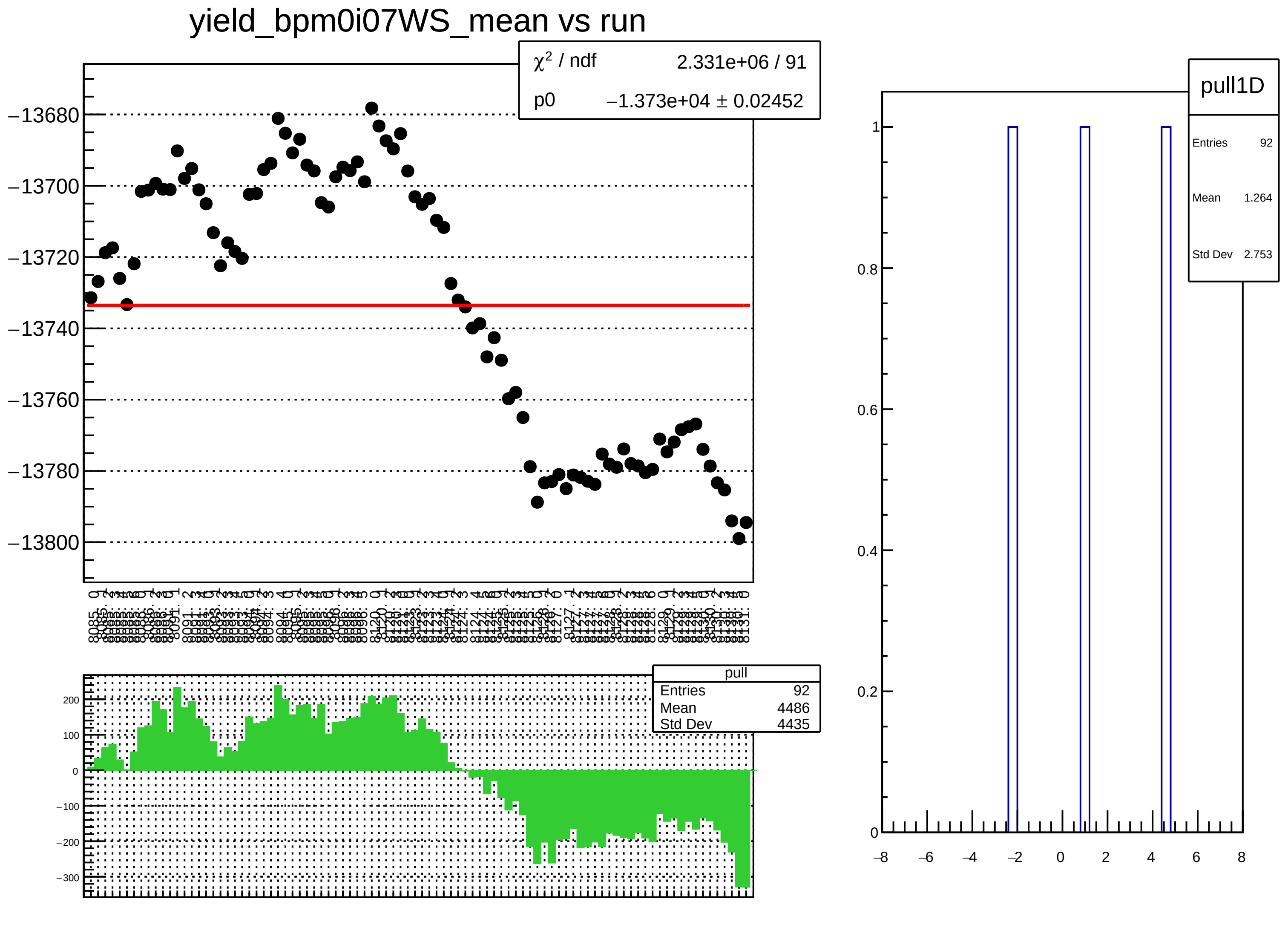

yield_bcm0l02_rms vs run
χ2 / ndf 4.004e+05 / 91
p0 1.039 ± 0.0008654
14
12
10
8
6
4
2



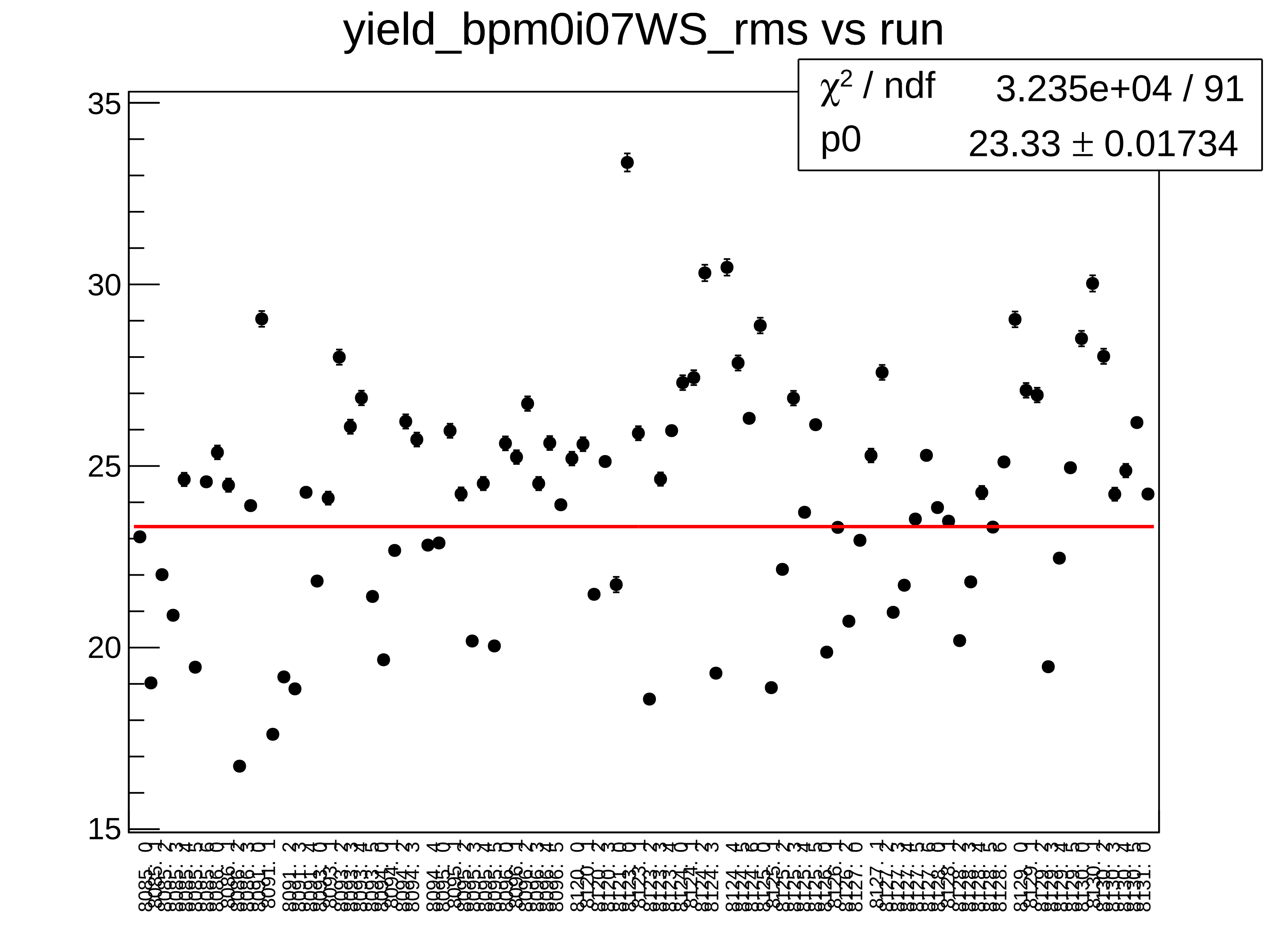
yield_bpm2i01WS_mean vs run
χ^2 / ndf 6631 / 91
p0 1.721e+05 ± 0.3208
×10^3
172.18
172.16
172.14
172.12
172.1
172.08
pull
Entries 92
Mean −5.103e+04
Std Dev 5.108e+04
pull1D
Entries 92
Mean 0.9725
Std Dev 4.347



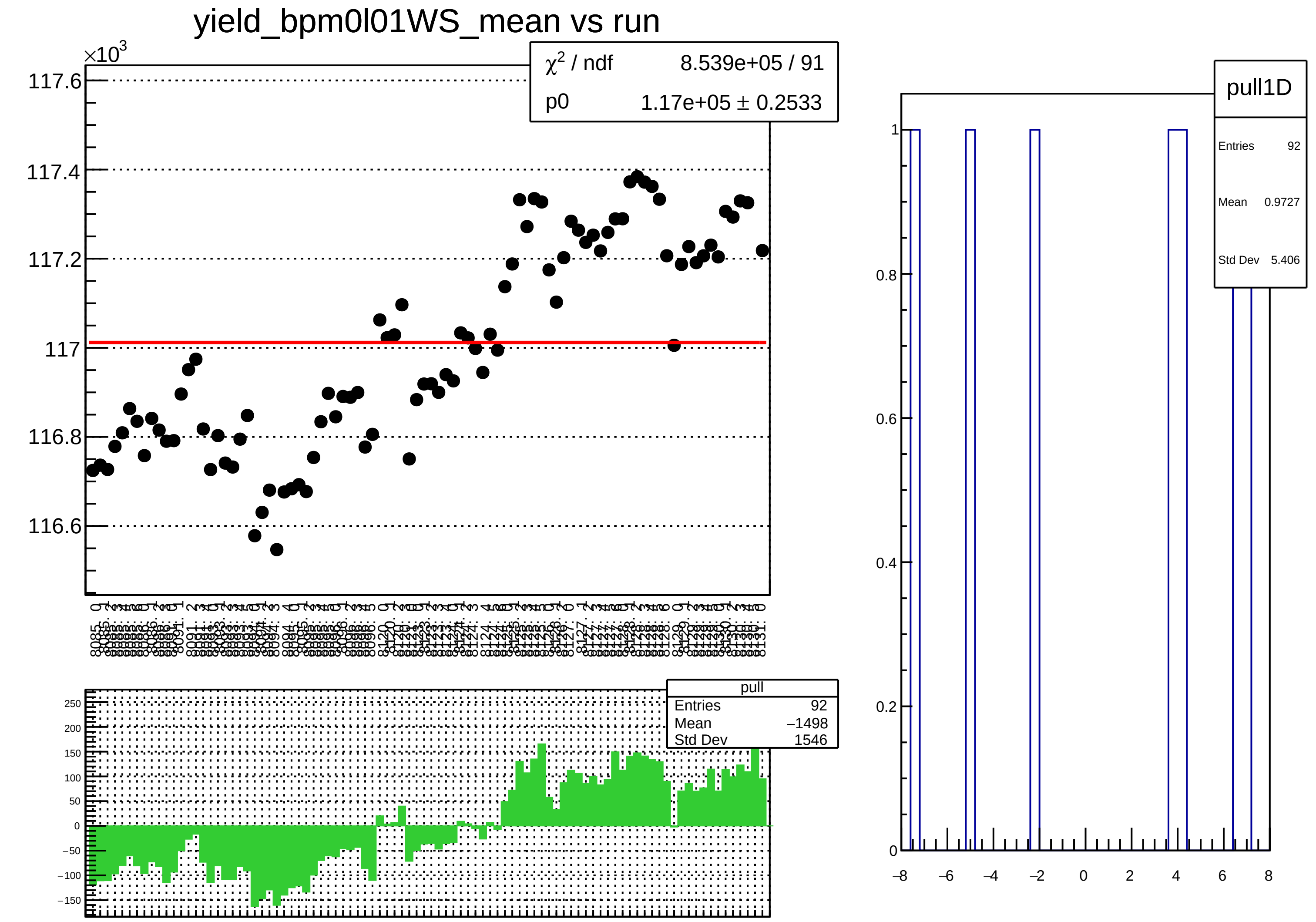
yield_bpm2i01WS_rms vs run
χ2 / ndf 2354 / 91
p0 307.7 ± 0.2268
340
330
320
310
300
290
280
270



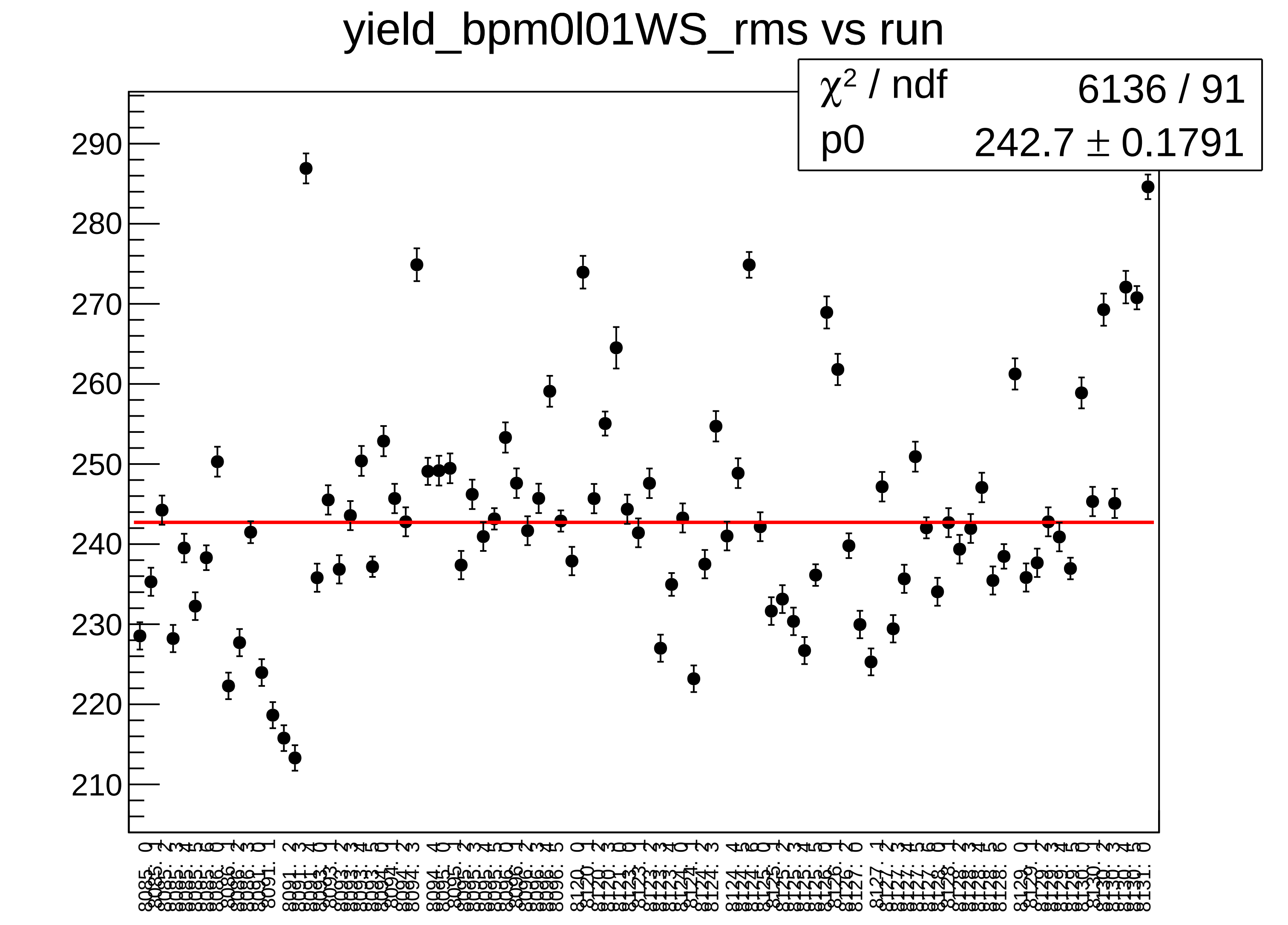
yield_bpm0i07WS_mean vs run
χ^2 / ndf 2.331e+06 / 91
p0 −1.373e+04 ± 0.02452
−13680
−13700
−13720
−13740
−13760
−13780
−13800
pull
Entries 92
Mean 4486
Std Dev 4435
200
100
0
−100
−200
−300
pull1D
Entries 92
Mean 1.264
Std Dev 2.753
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

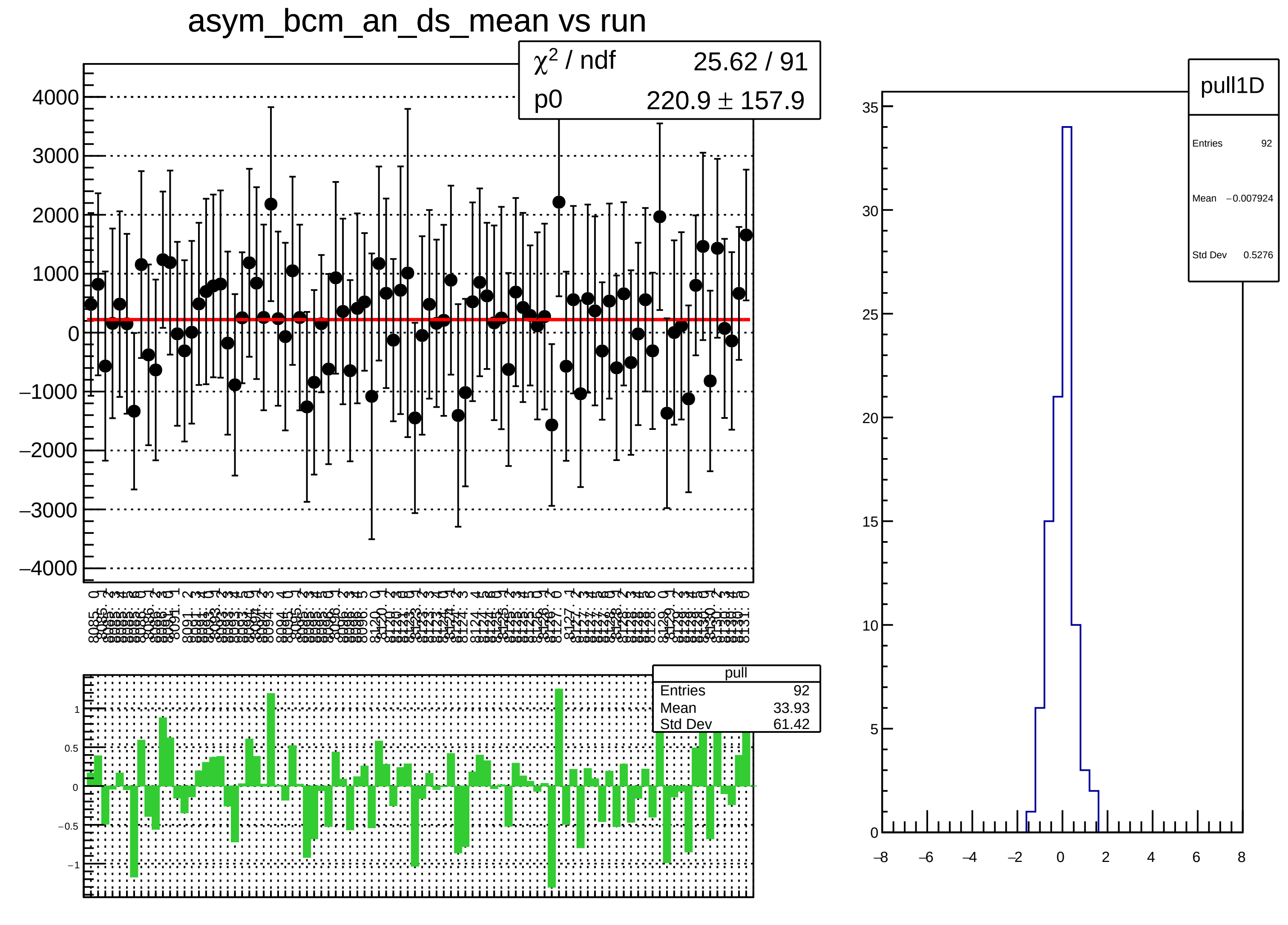


yield_bpm0i07WS_rms vs run
χ^2 / ndf 3.235e+04 / 91
p0 23.33 ± 0.01734
35
30
25
20
15

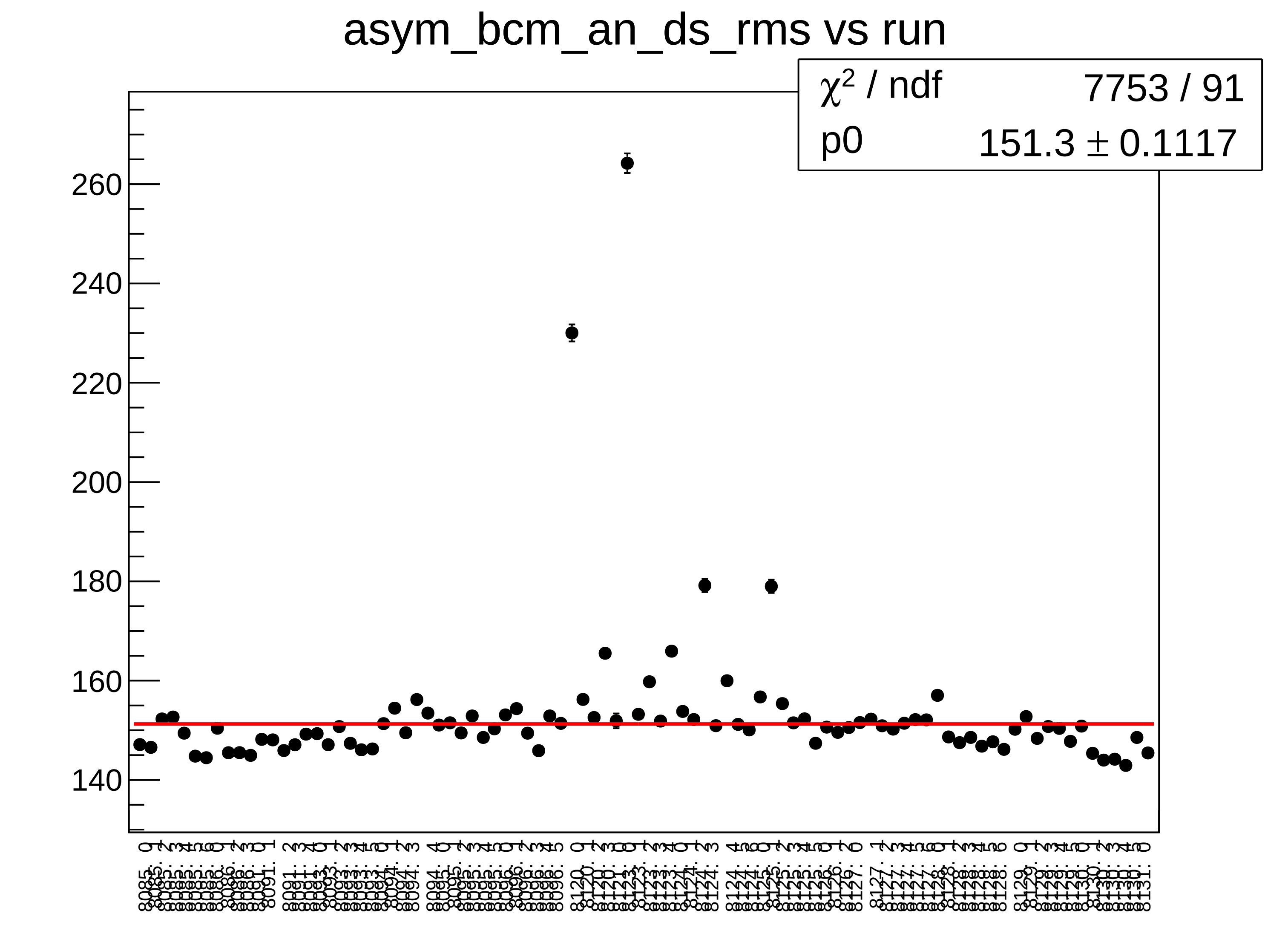


yield_bpm0l01WS_mean vs run
×10^3
χ2 / ndf 8.539e+05 / 91
p0 1.17e+05 ± 0.2533
117.6
117.4
117.2
117
116.8
116.6
pull
Entries 92
Mean −1498
Std Dev 1546
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 92
Mean 0.9727
Std Dev 5.406
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

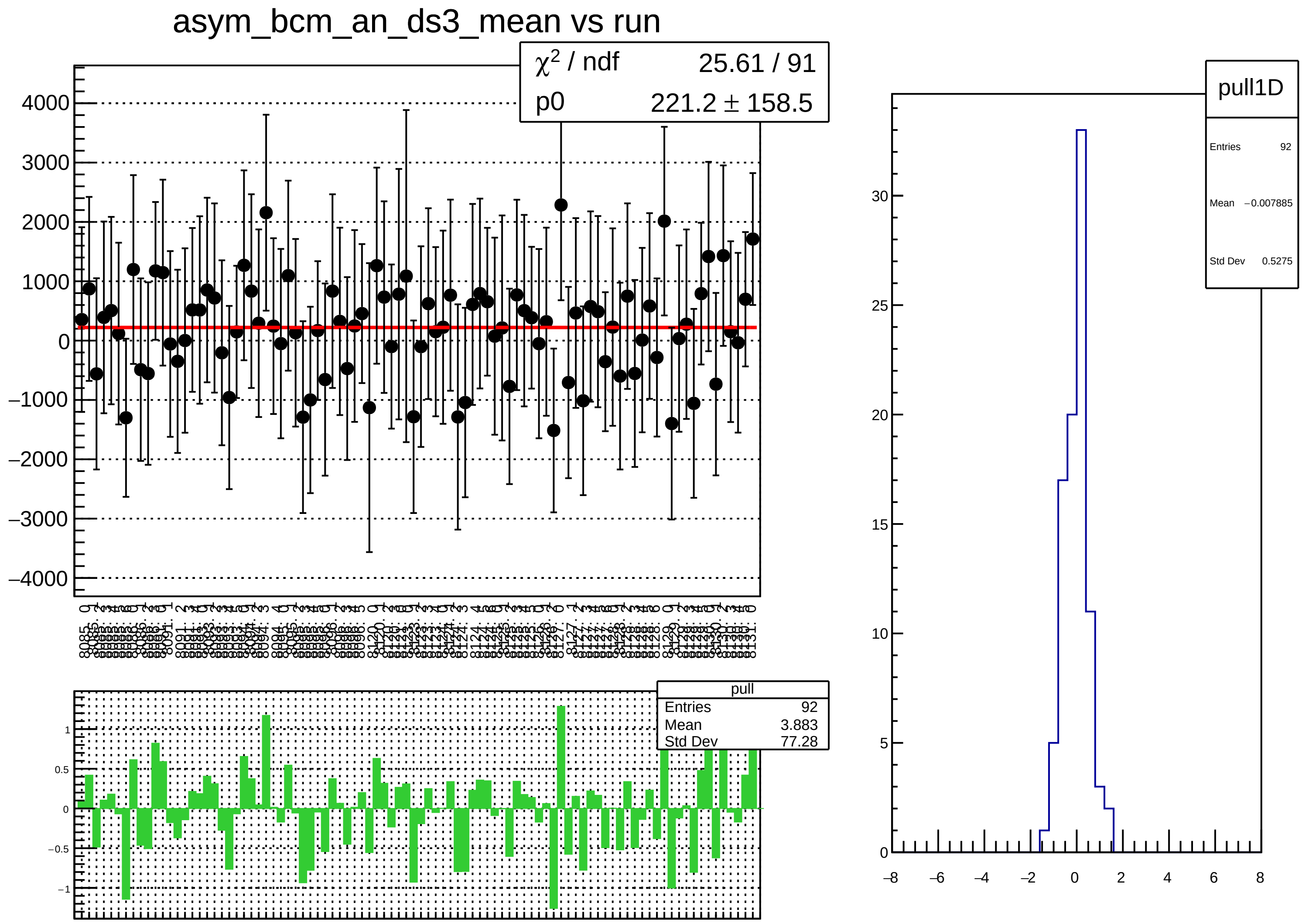

yield_bpm0l01WS_rms vs run
χ2 / ndf 6136 / 91
p0 242.7 ± 0.1791
290
280
270
260
250
240
230
220
210



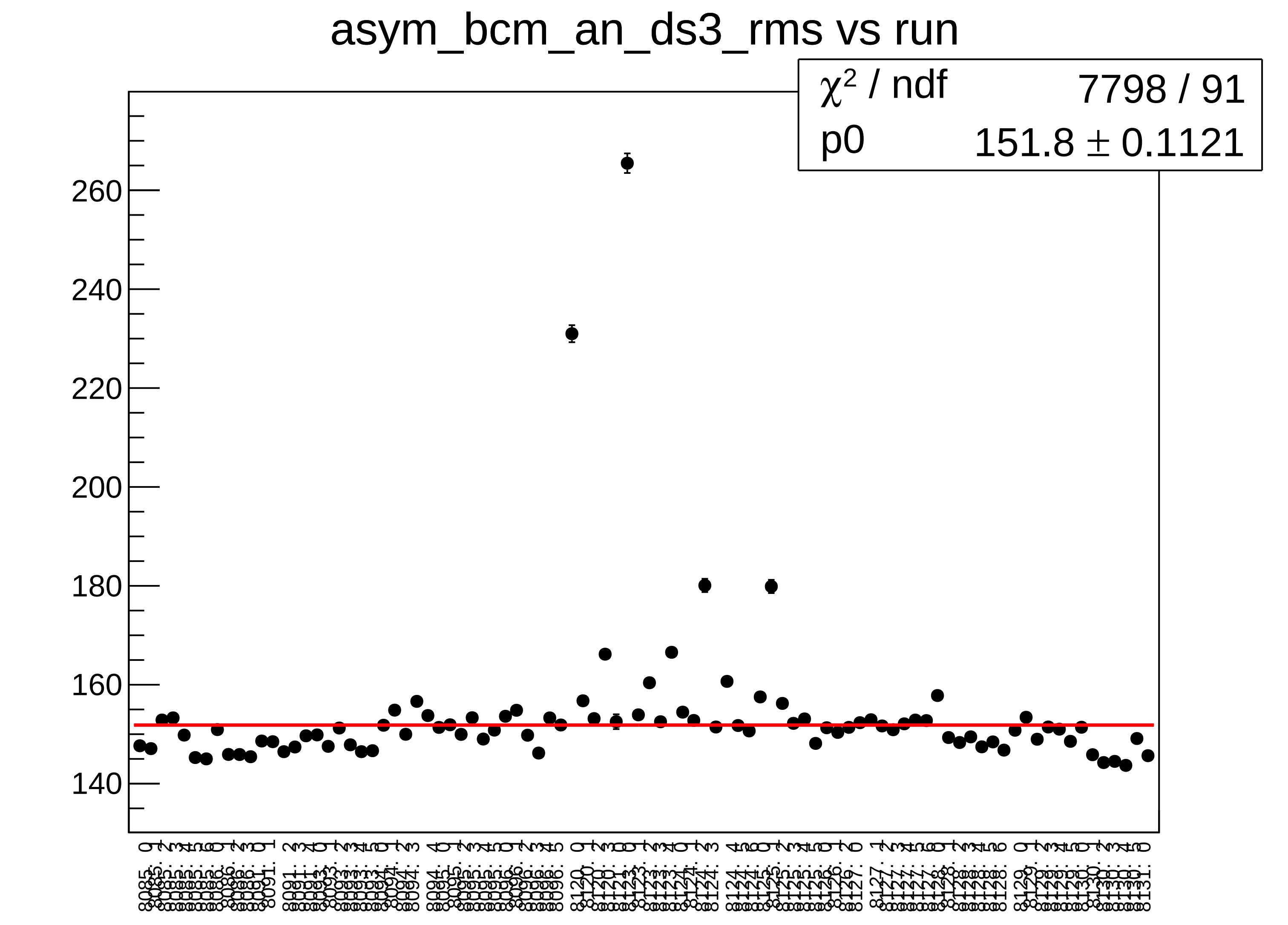
asym_bcm_an_ds_mean vs run
χ^2 / ndf 25.62 / 91
p0 220.9 ± 157.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 33.93
Std Dev 61.42
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.007924
Std Dev 0.5276
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



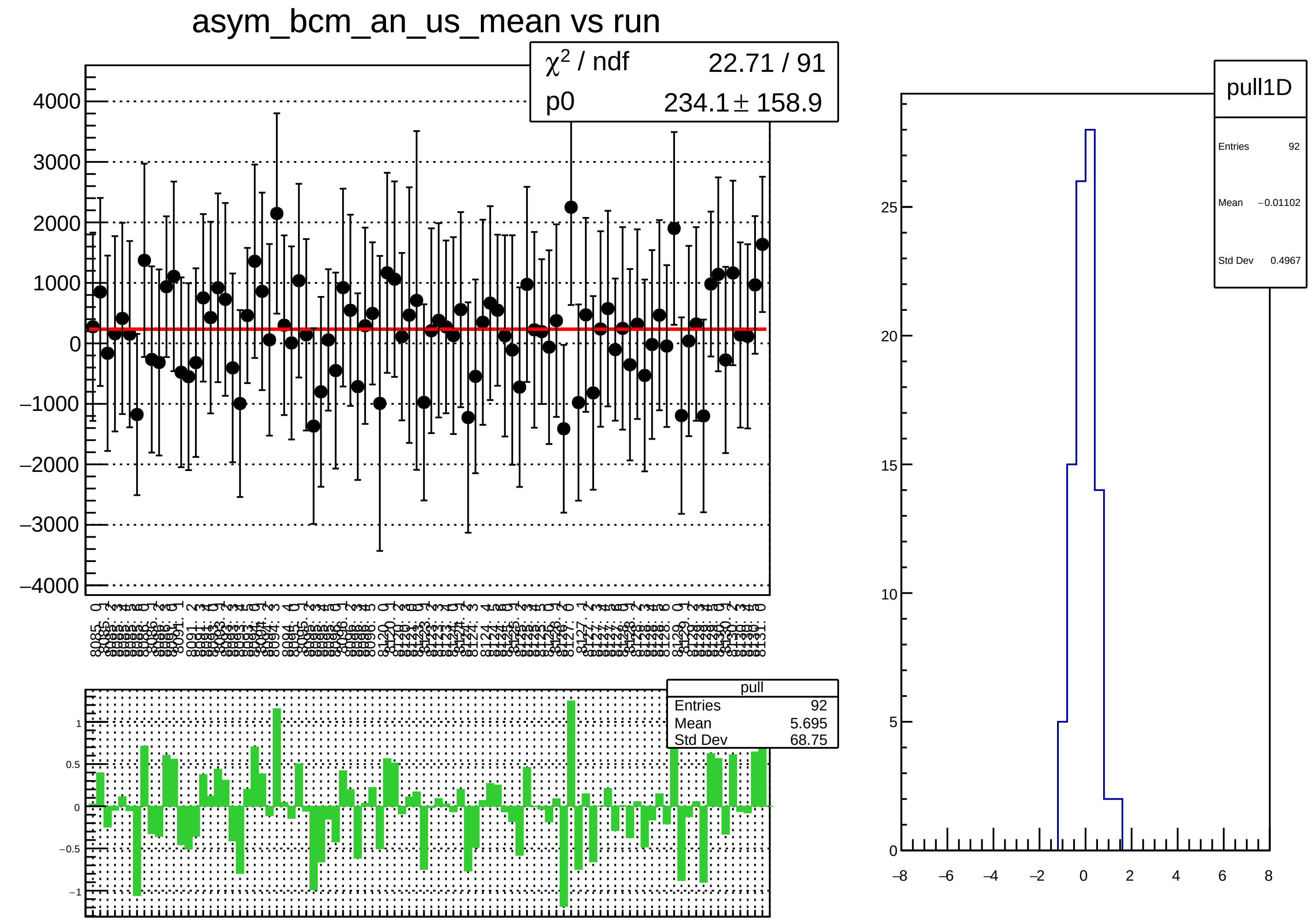
asym_bcm_an_ds_rms vs run
χ2 / ndf 7753 / 91
p0 151.3 ± 0.1117
260
240
220
200
180
160
140



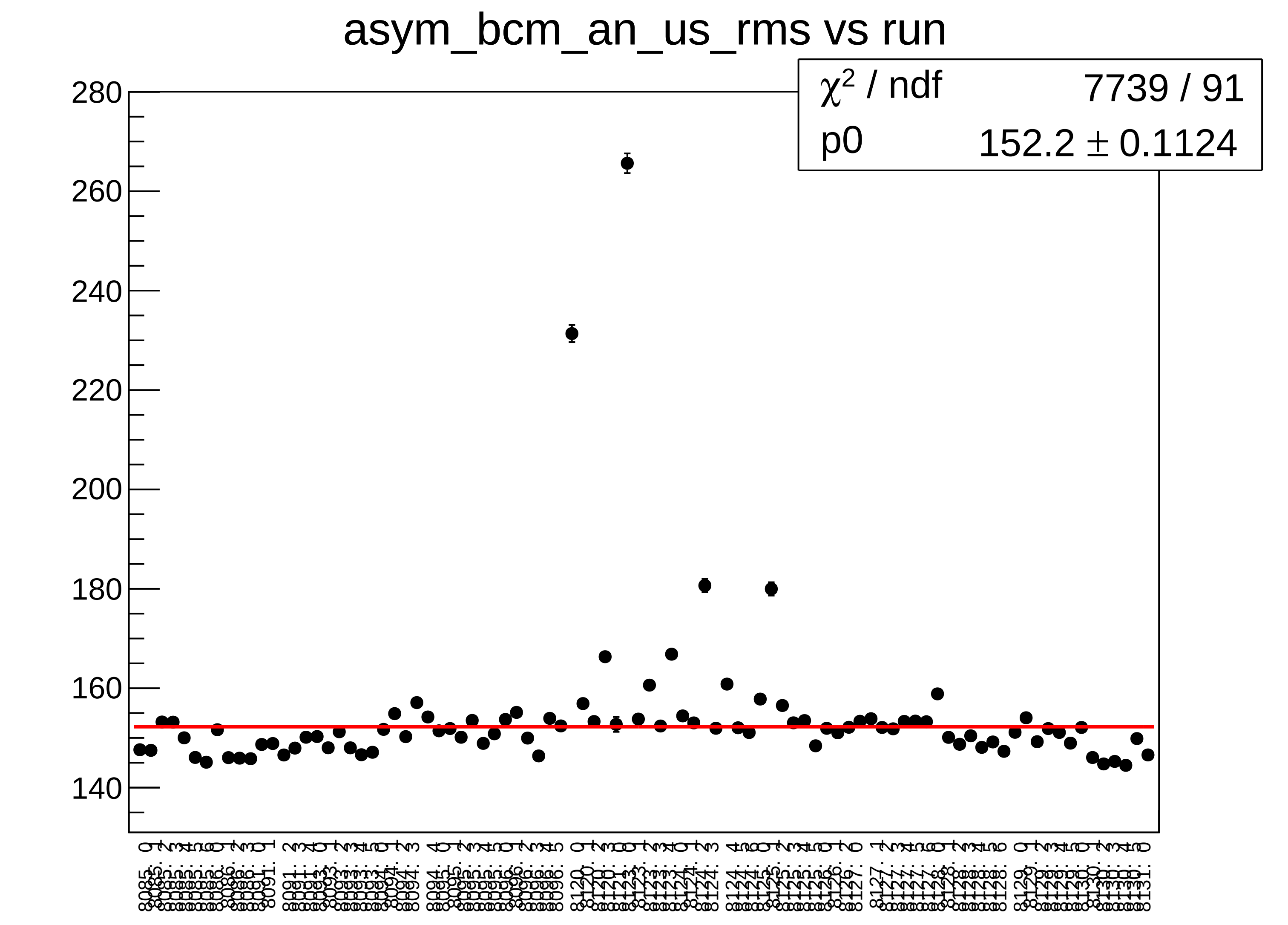
asym_bcm_an_ds3_mean vs run
χ^2 / ndf 25.61 / 91
p0 221.2 ± 158.5
pull
Entries 92
Mean 3.883
Std Dev 77.28
pull1D
Entries 92
Mean −0.007885
Std Dev 0.5275

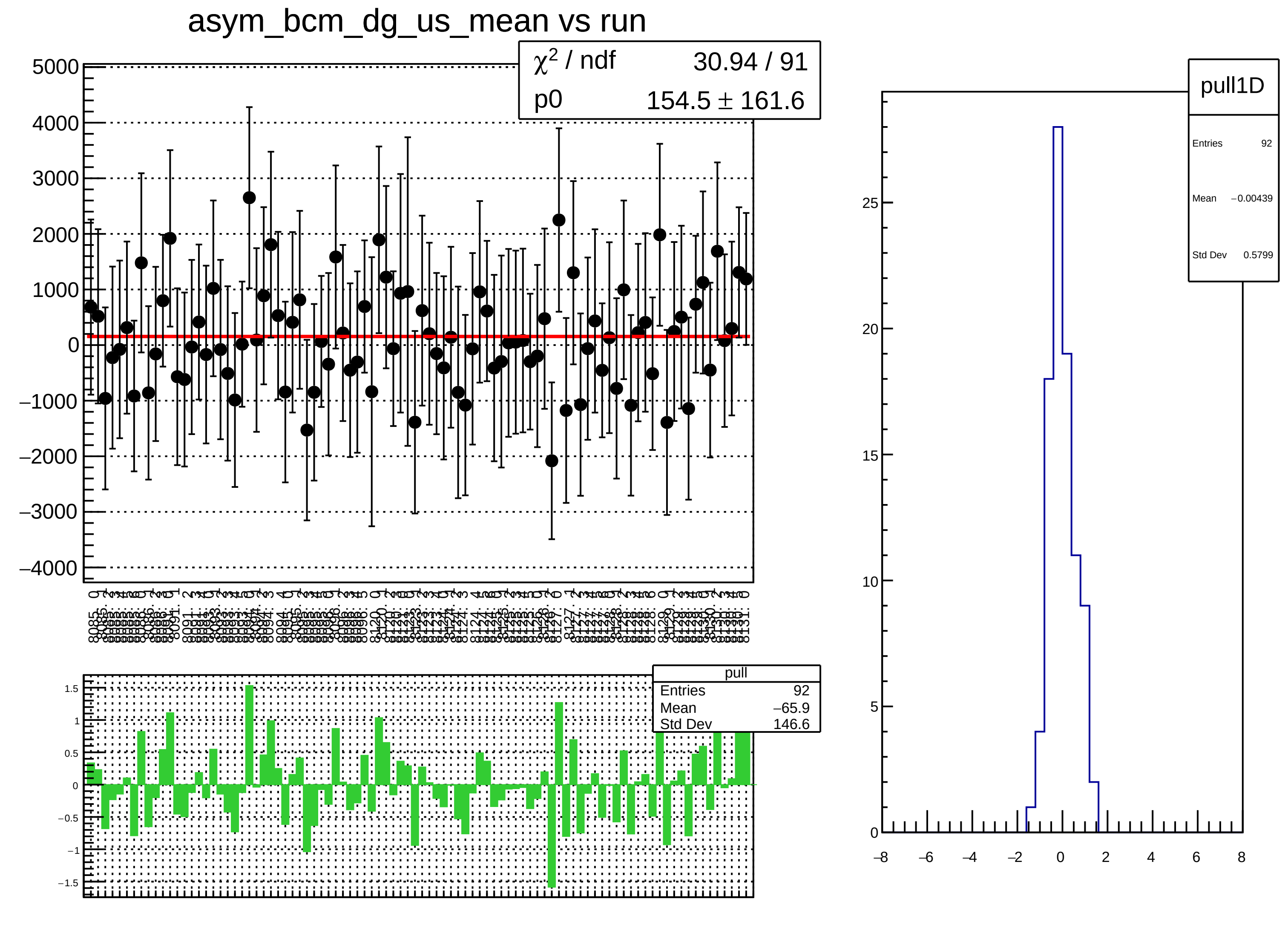


asym_bcm_an_ds3_rms vs run
χ² / ndf 7798 / 91
p0 151.8 ± 0.1121
260
240
220
200
180
160
140

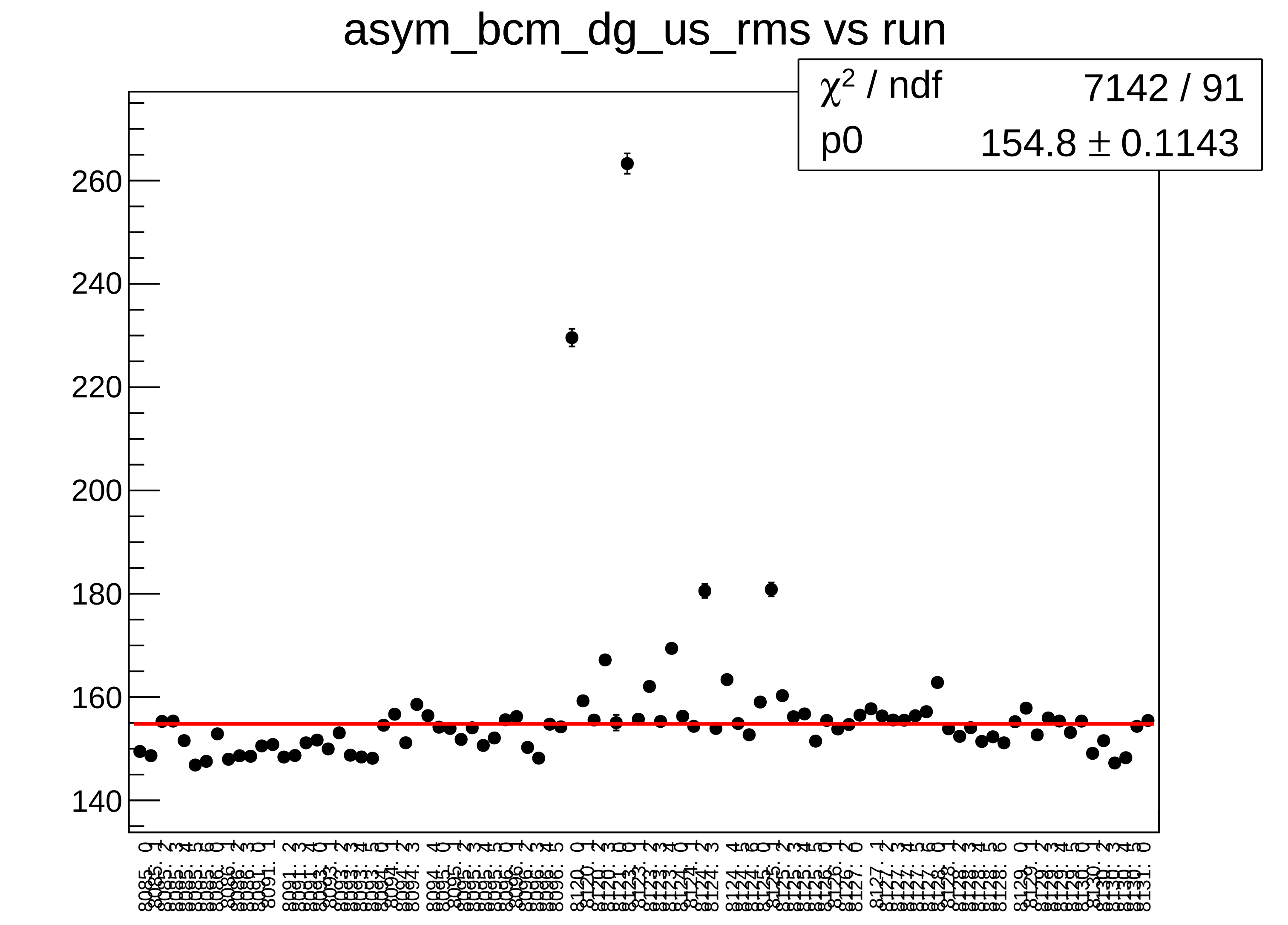


asym_bcm_an_us_mean vs run
χ2 / ndf 22.71 / 91
p0 234.1 ± 158.9
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean 5.695
Std Dev 68.75
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.01102
Std Dev 0.4967
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

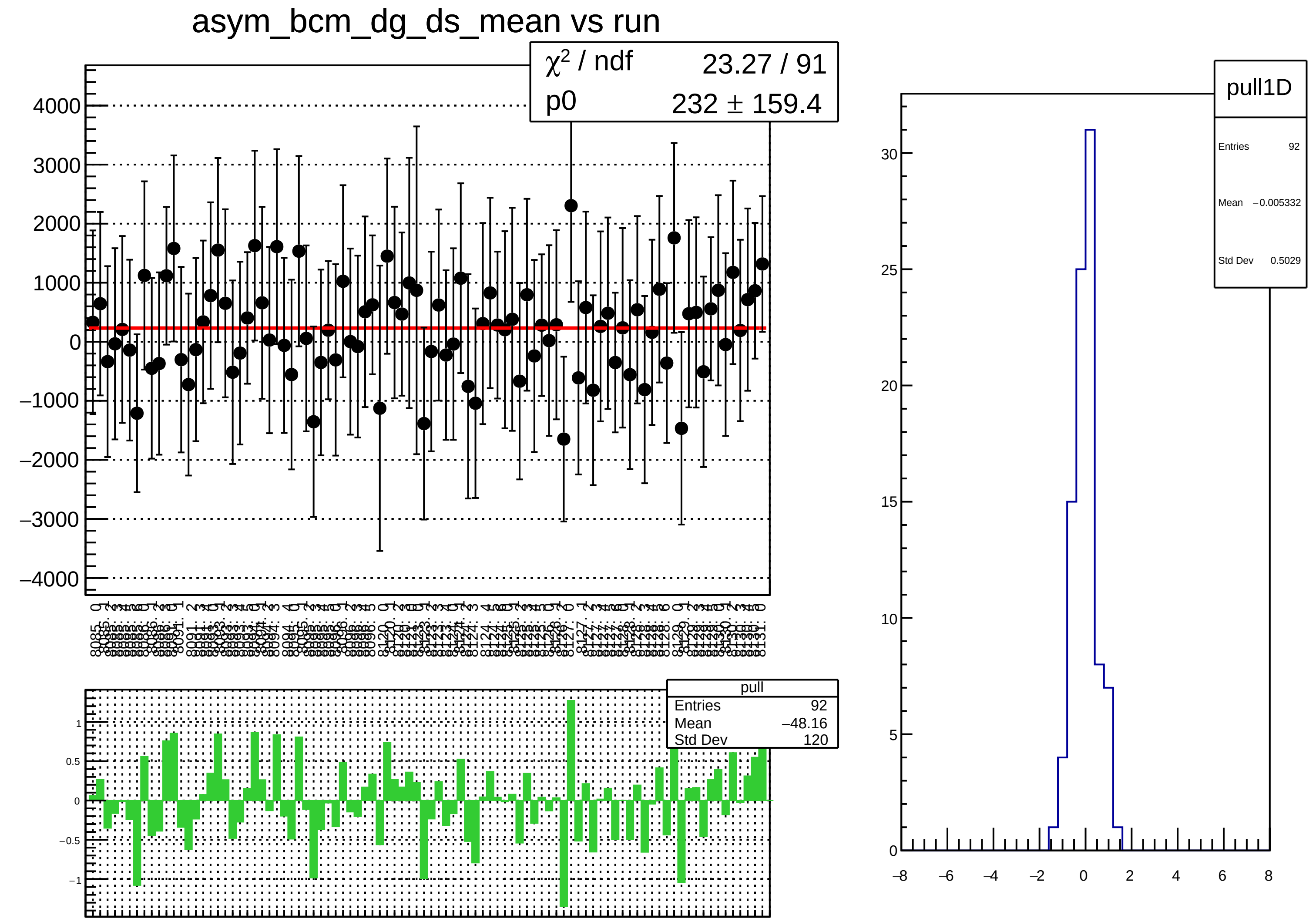

asym_bcm_an_us_rms vs run
χ^2 / ndf 7739 / 91
p0 152.2 ± 0.1124
280
260
240
220
200
180
160
140

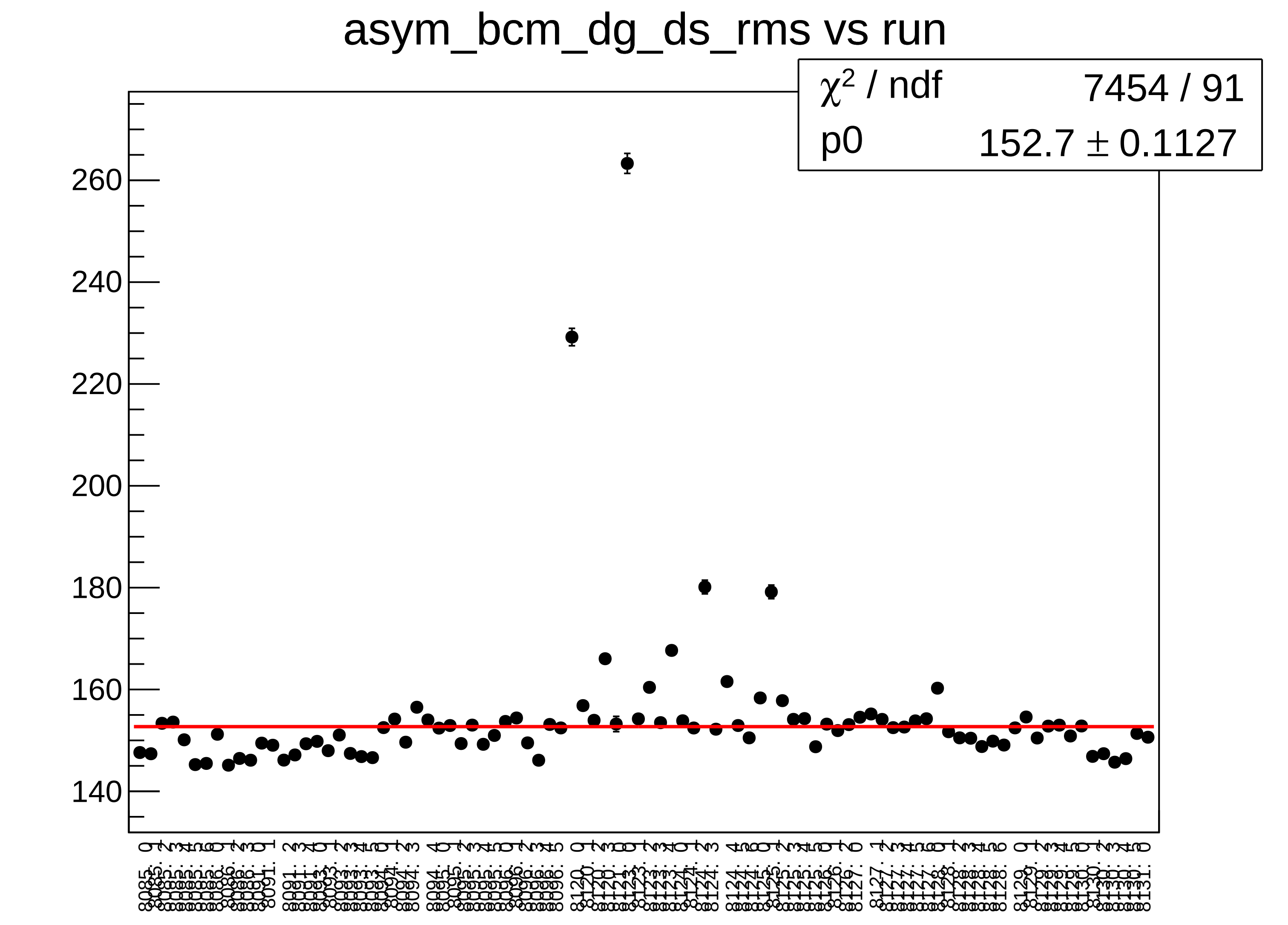


asym_bcm_dg_us_mean vs run
χ^2 / ndf 30.94 / 91
p0 154.5 ± 161.6
pull
Entries 92
Mean −65.9
Std Dev 146.6
pull1D
Entries 92
Mean −0.00439
Std Dev 0.5799

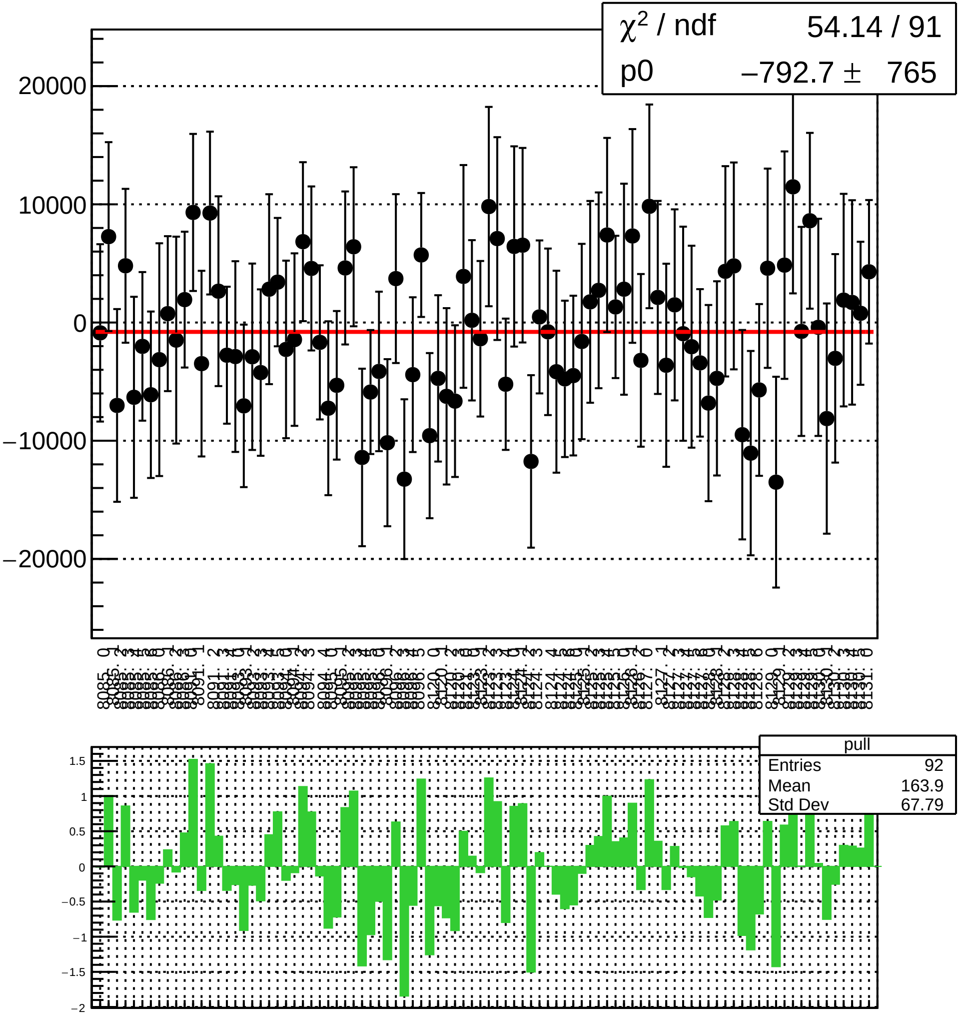


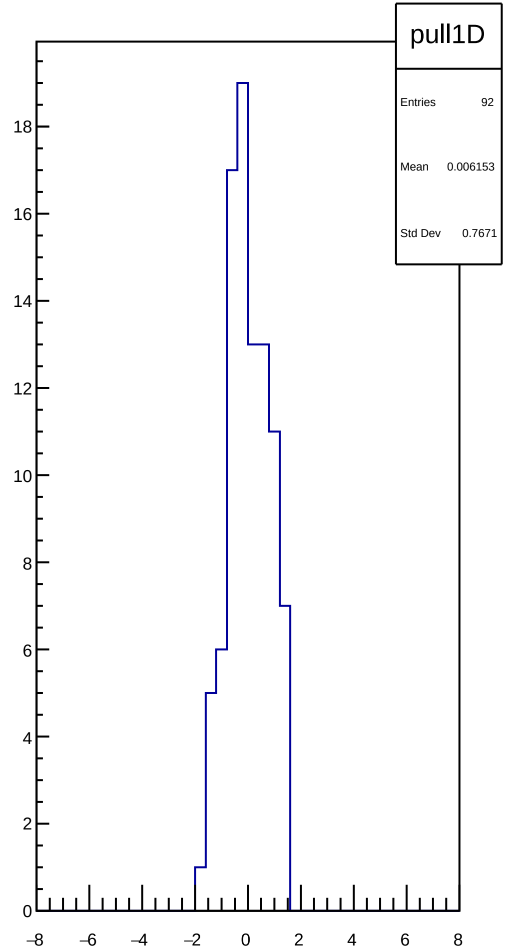
asym_bcm_dg_us_rms vs run
χ2 / ndf 7142 / 91
p0 154.8 ± 0.1143

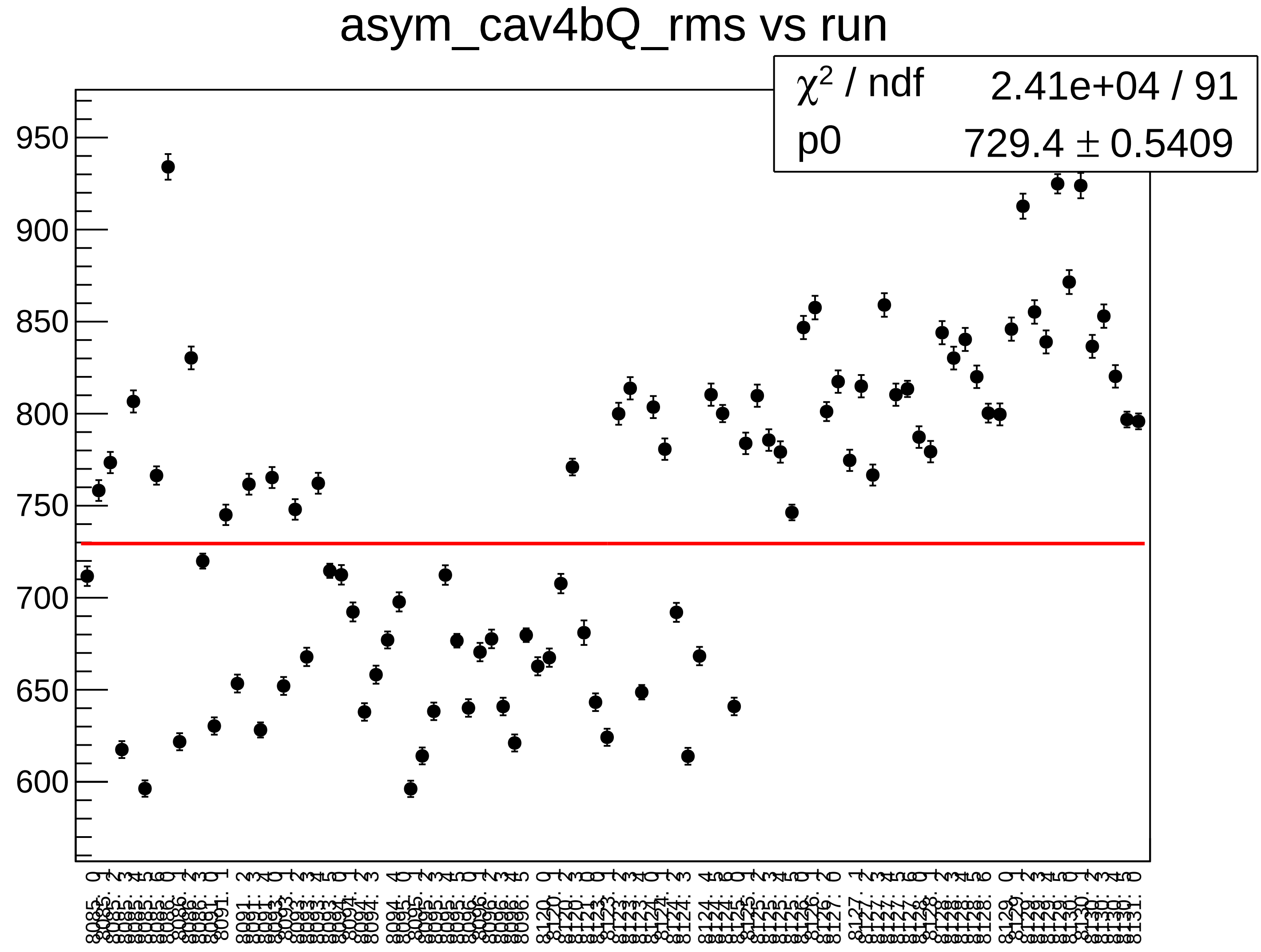

asym_bcm_dg_ds_mean vs run
χ^2 / ndf 23.27 / 91
p0 232 ± 159.4
pull
Entries 92
Mean −48.16
Std Dev 120
pull1D
Entries 92
Mean −0.005332
Std Dev 0.5029


asym_bcm_dg_ds_rms vs run
χ^2 / ndf 7454 / 91
p0 152.7 ± 0.1127
260
240
220
200
180
160
140

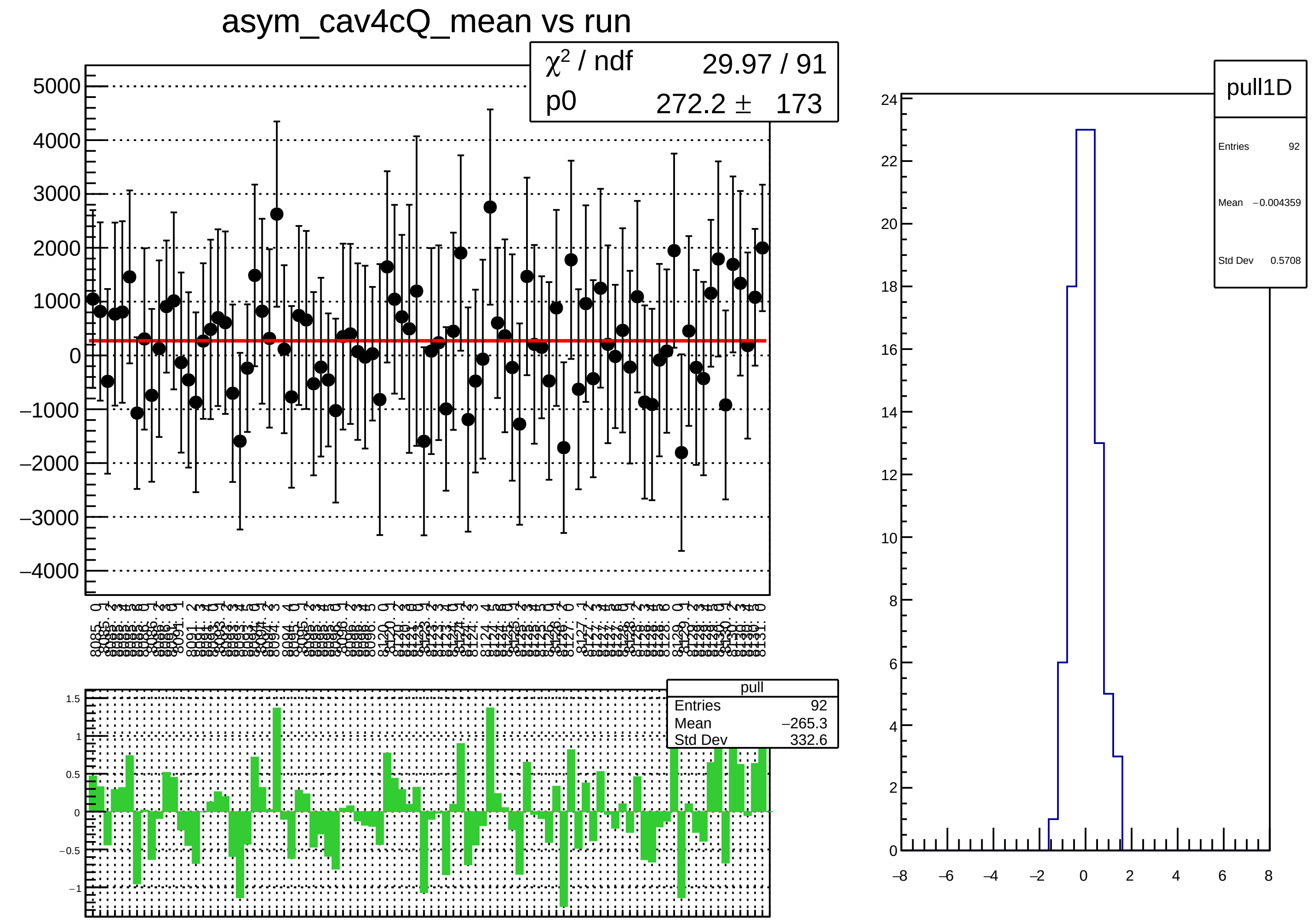
asym_cav4bQ_mean vs run

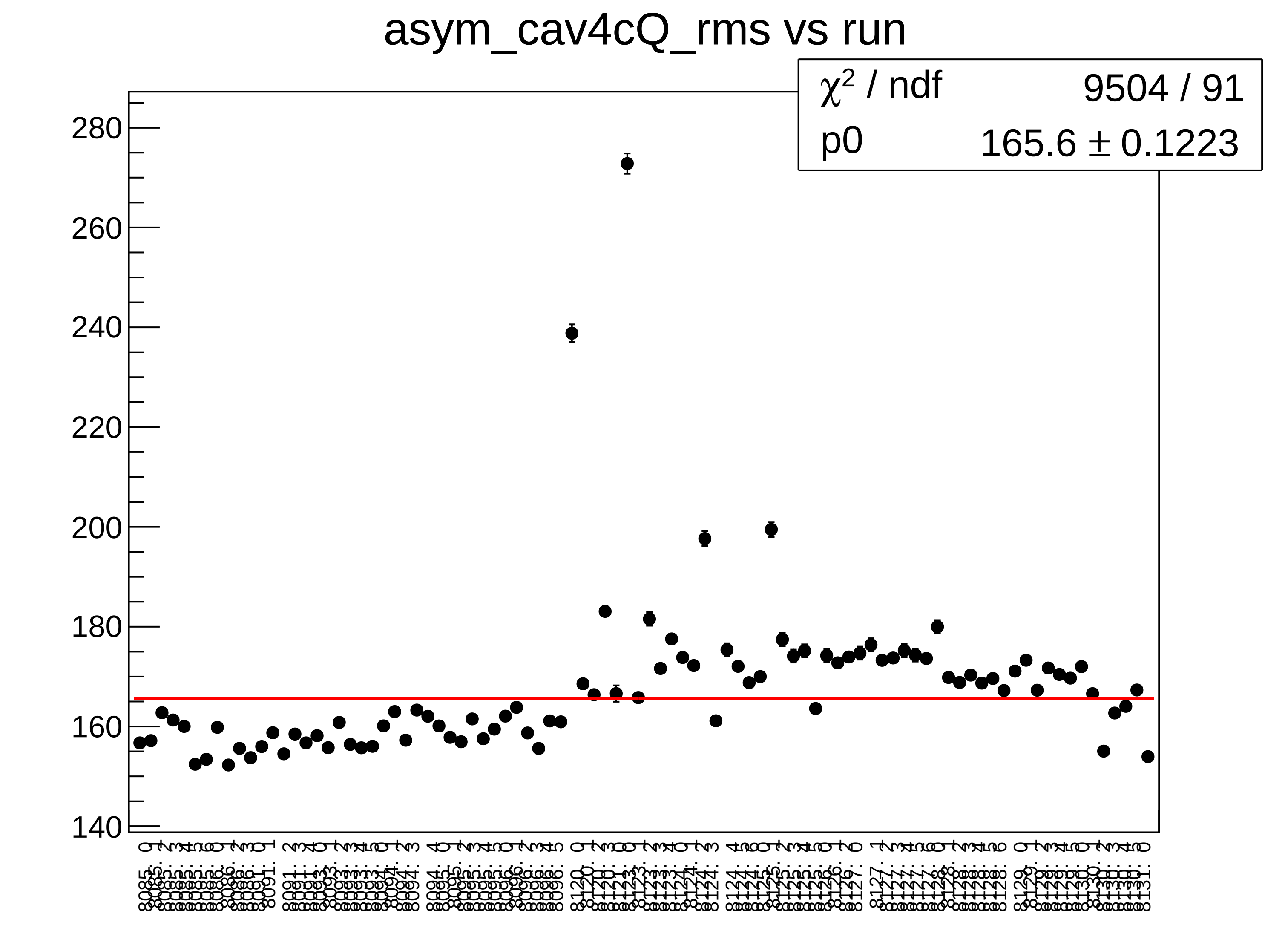




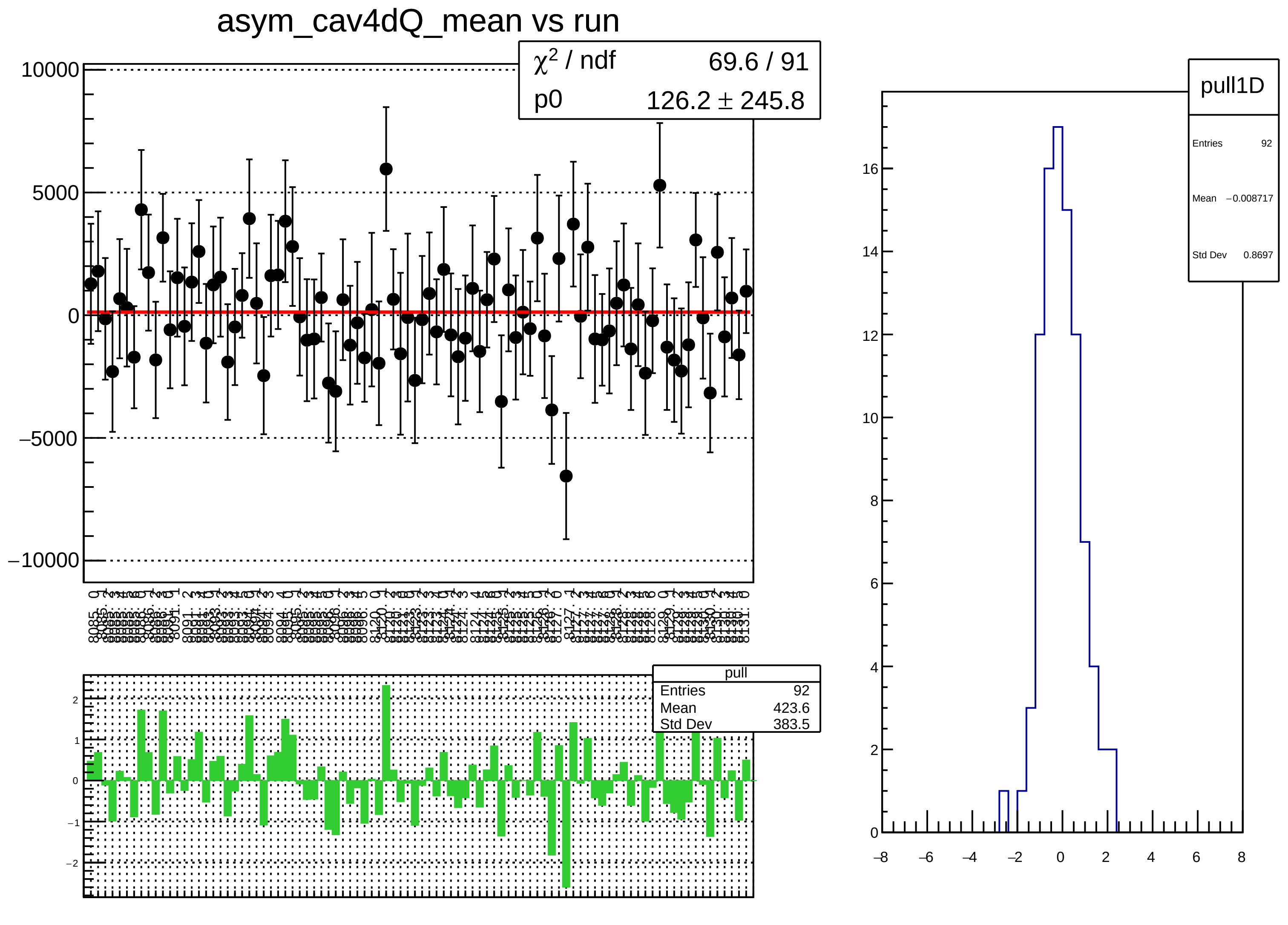


asym_cav4bQ_rms vs run
χ^2 / ndf 2.41e+04 / 91
p0 729.4 ± 0.5409
950
900
850
800
750
700
650
600

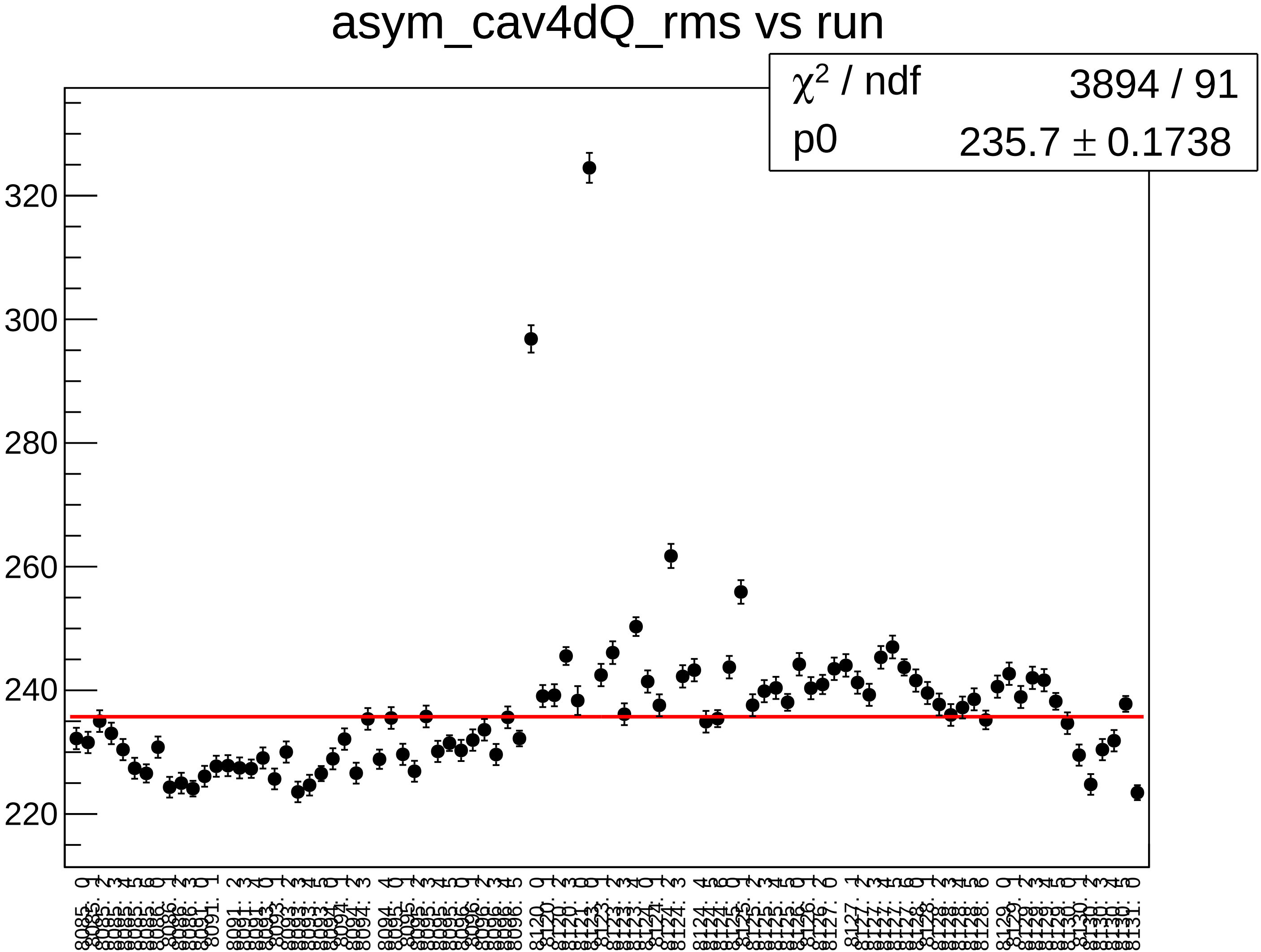

asym_cav4cQ_mean vs run
χ² / ndf 29.97 / 91
p0 272.2 ± 173
5000
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 92
Mean −265.3
Std Dev 332.6
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.004359
Std Dev 0.5708
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

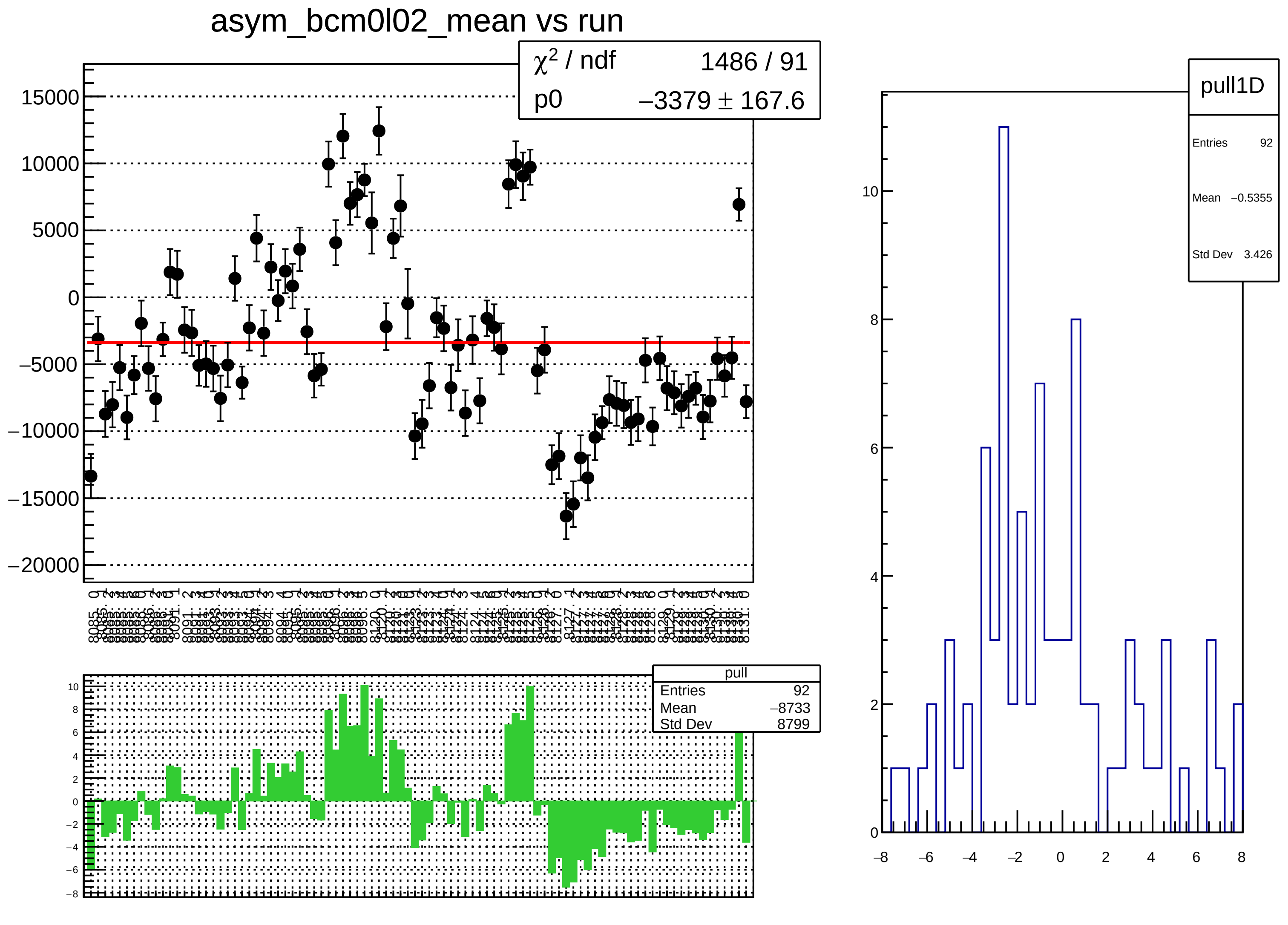


asym_cav4cQ_rms vs run
χ^2 / ndf 9504 / 91
p0 165.6 ± 0.1223
280
260
240
220
200
180
160
140

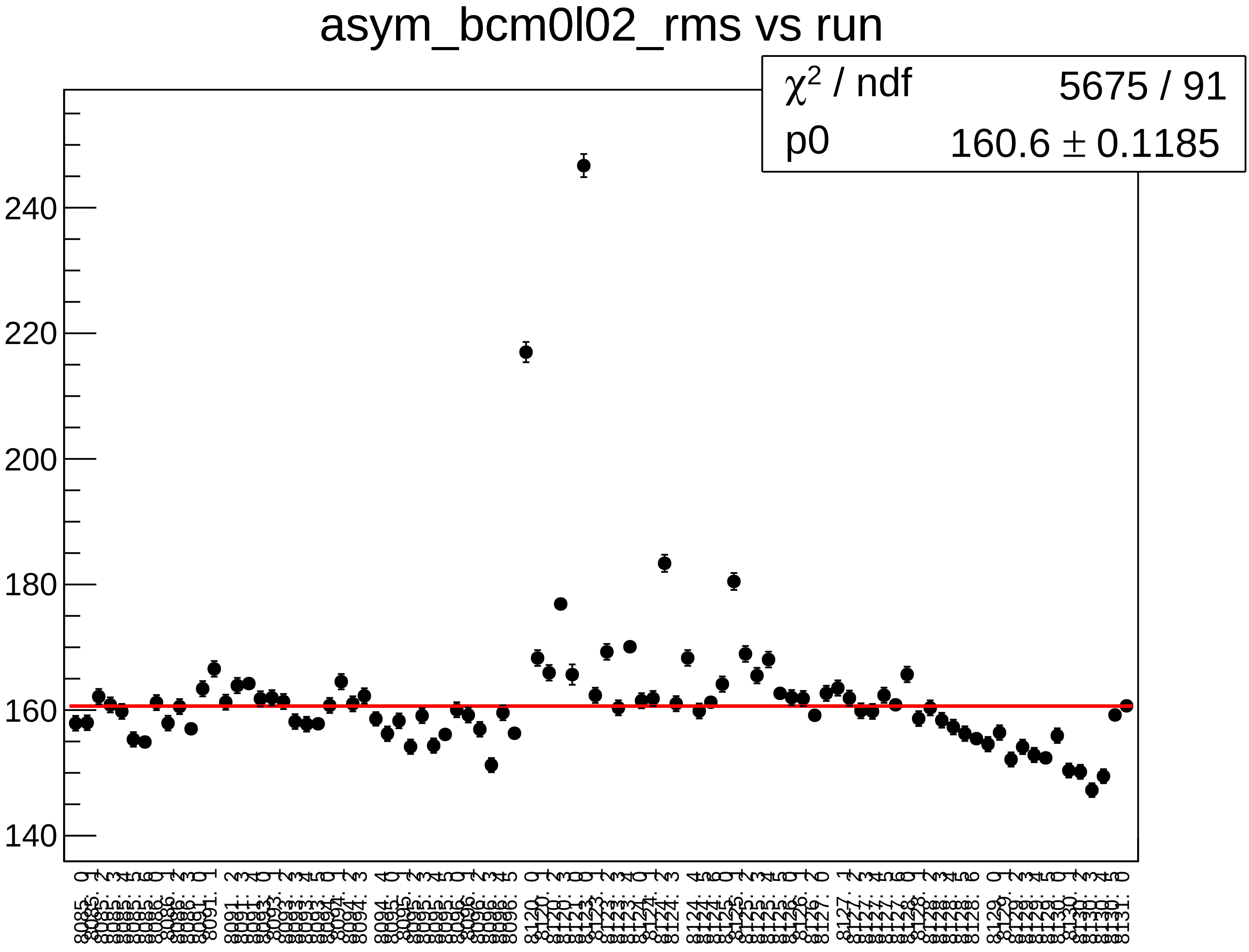


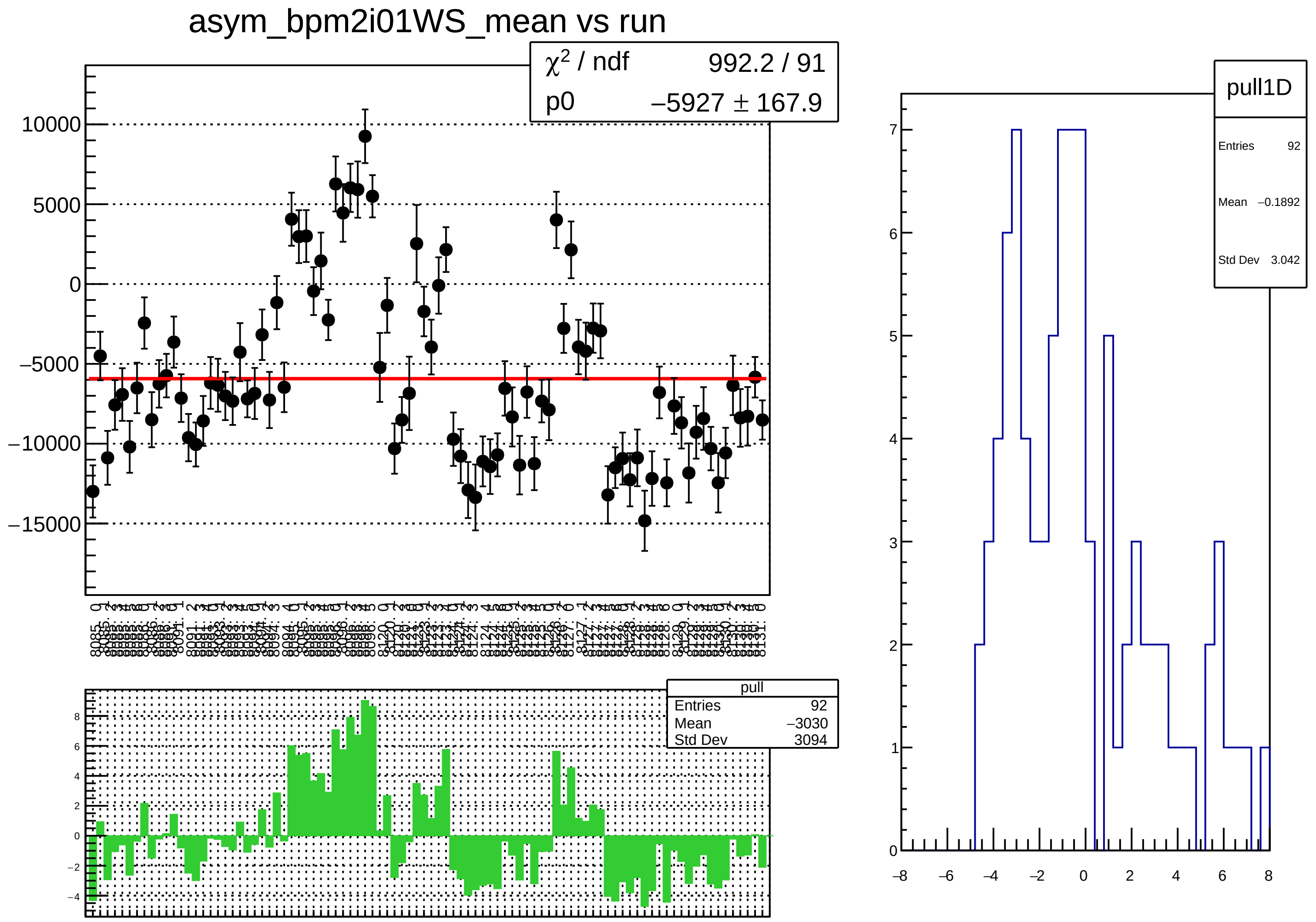
asym_cav4dQ_mean vs run
χ2 / ndf 69.6 / 91
p0 126.2 ± 245.8
pull
Entries 92
Mean 423.6
Std Dev 383.5
pull1D
Entries 92
Mean −0.008717
Std Dev 0.8697

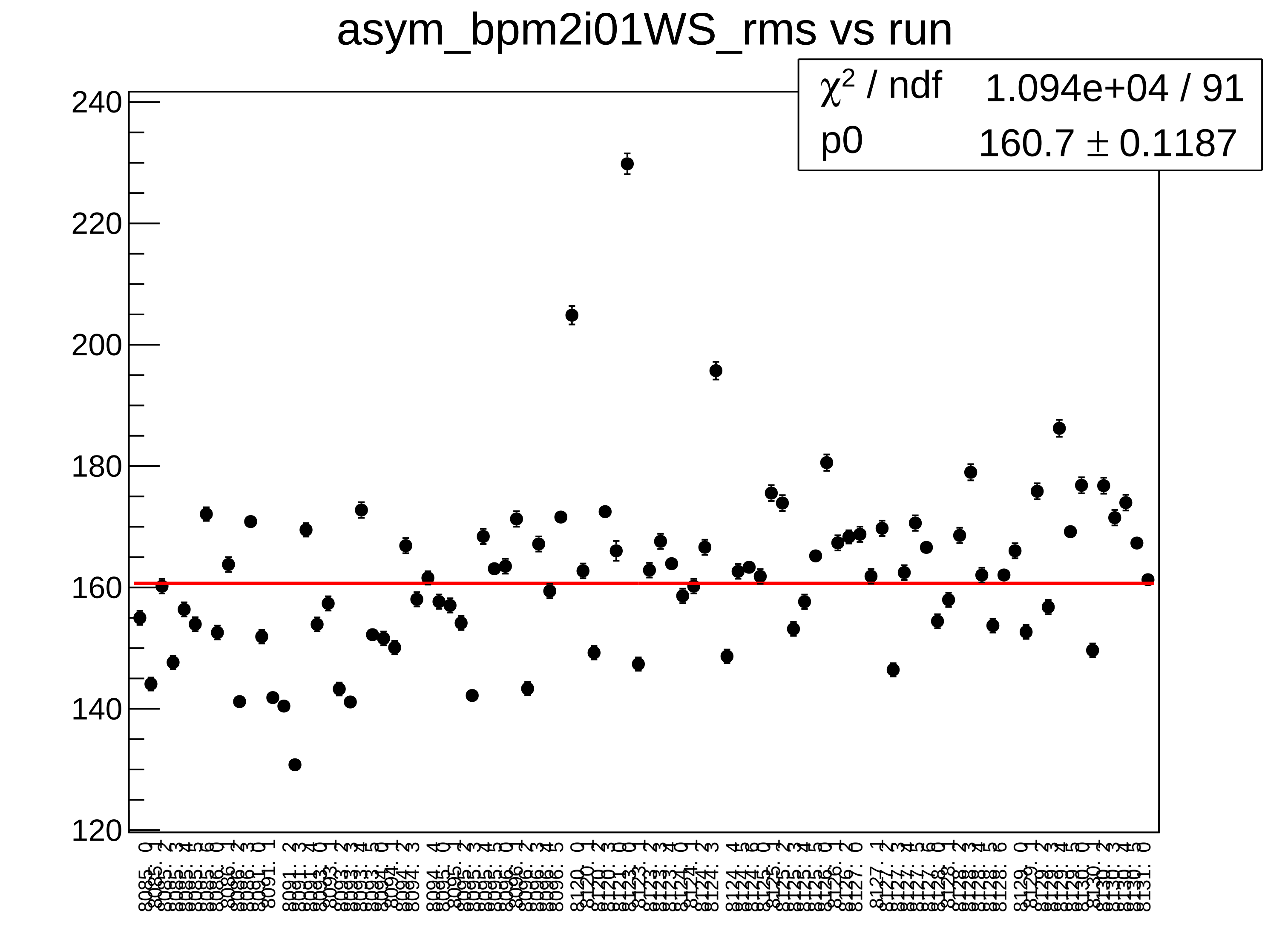

asym_cav4dQ_rms vs run
χ^2 / ndf 3894 / 91
p0 235.7 ± 0.1738
320
300
280
260
240
220



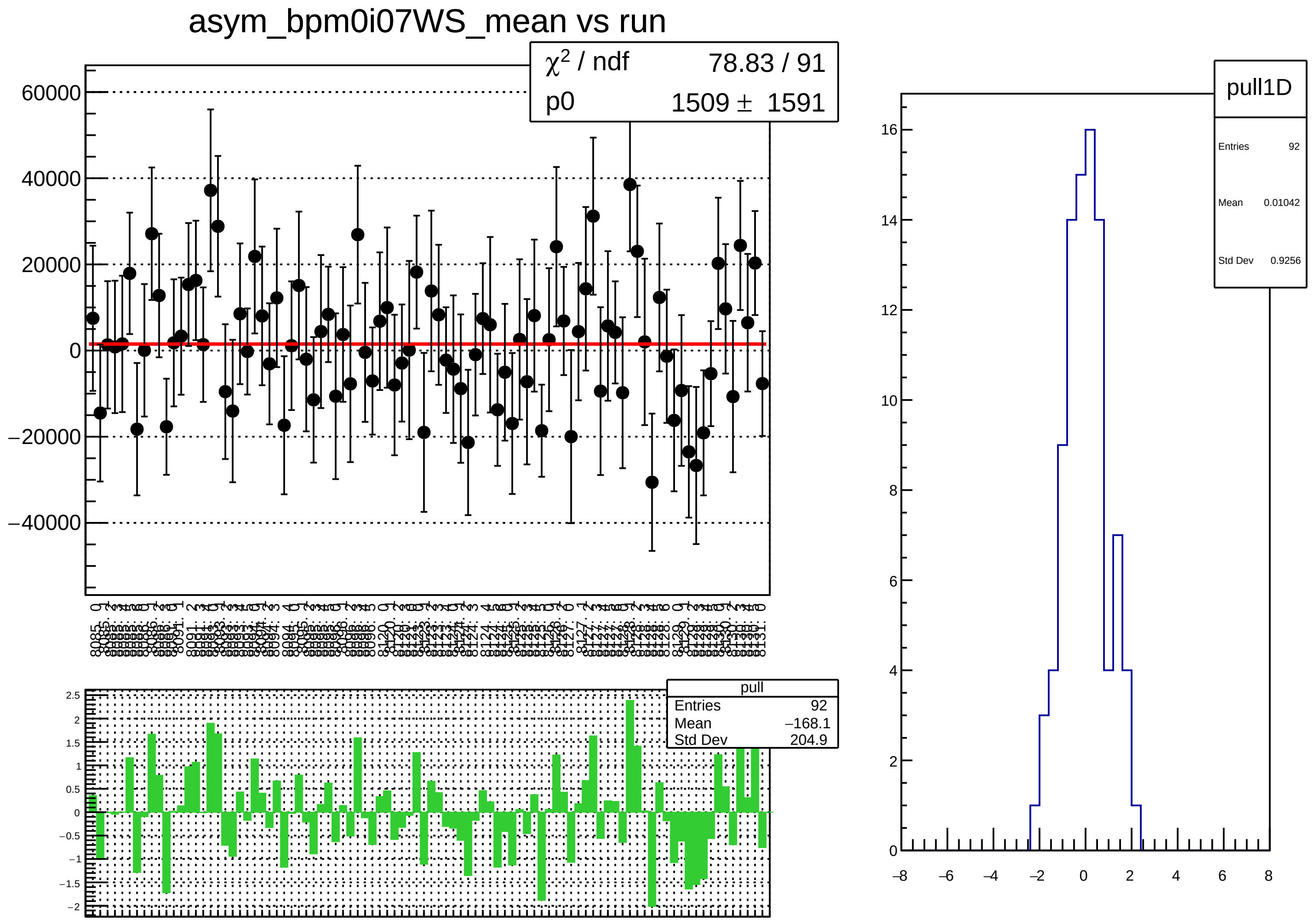
asym_bcm0l02_mean vs run
χ2 / ndf 1486 / 91
p0 −3379 ± 167.6
pull
Entries 92
Mean −8733
Std Dev 8799
pull1D
Entries 92
Mean −0.5355
Std Dev 3.426

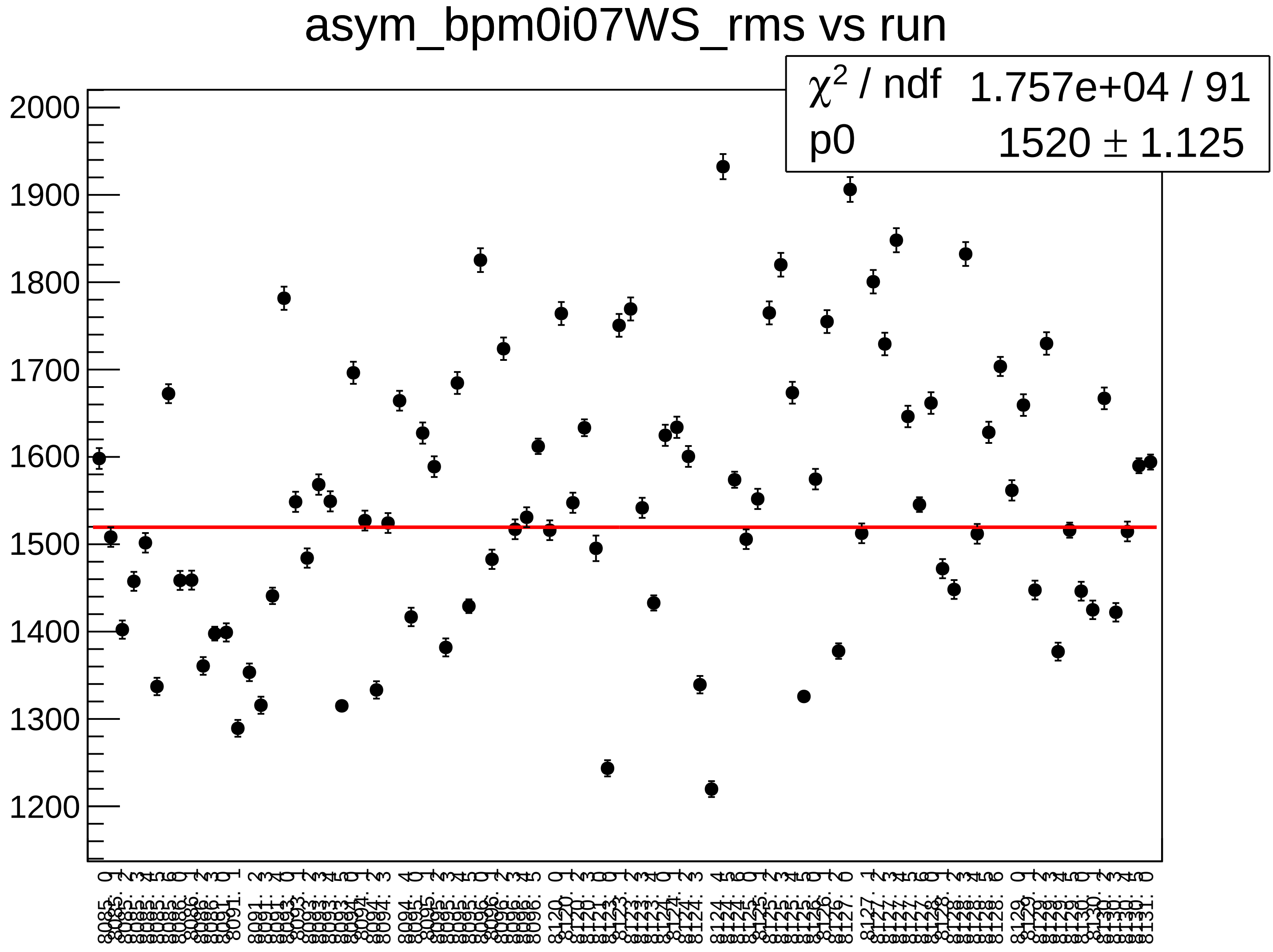

asym_bcm0l02_rms vs run
χ2 / ndf 5675 / 91
p0 160.6 ± 0.1185
240
220
200
180
160
140


asym_bpm2i01WS_mean vs run
χ^2 / ndf 992.2 / 91
p0 −5927 ± 167.9
pull
Entries 92
Mean −3030
Std Dev 3094
pull1D
Entries 92
Mean −0.1892
Std Dev 3.042

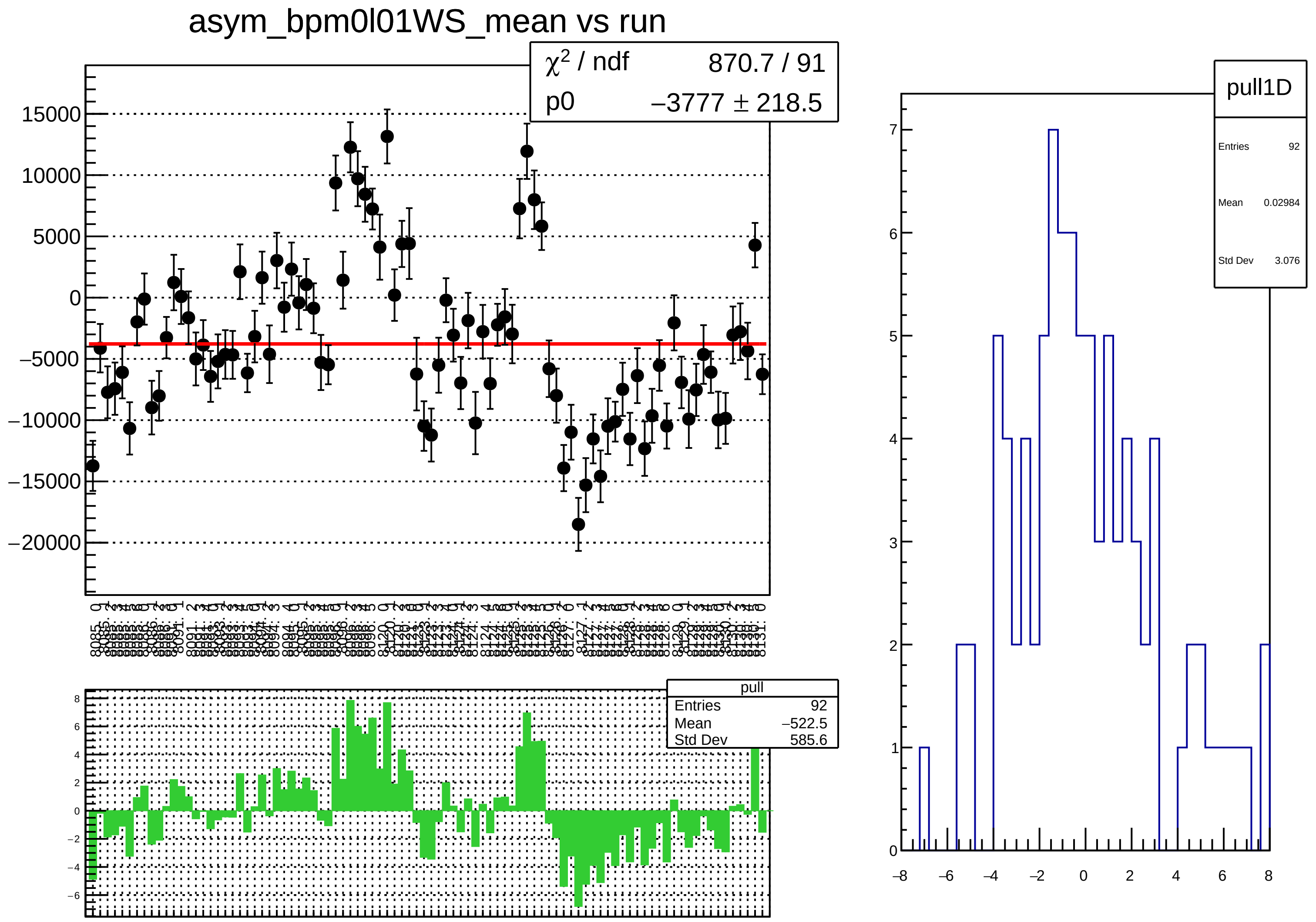


asym_bpm2i01WS_rms vs run
χ2 / ndf 1.094e+04 / 91
p0 160.7 ± 0.1187
240
220
200
180
160
140
120

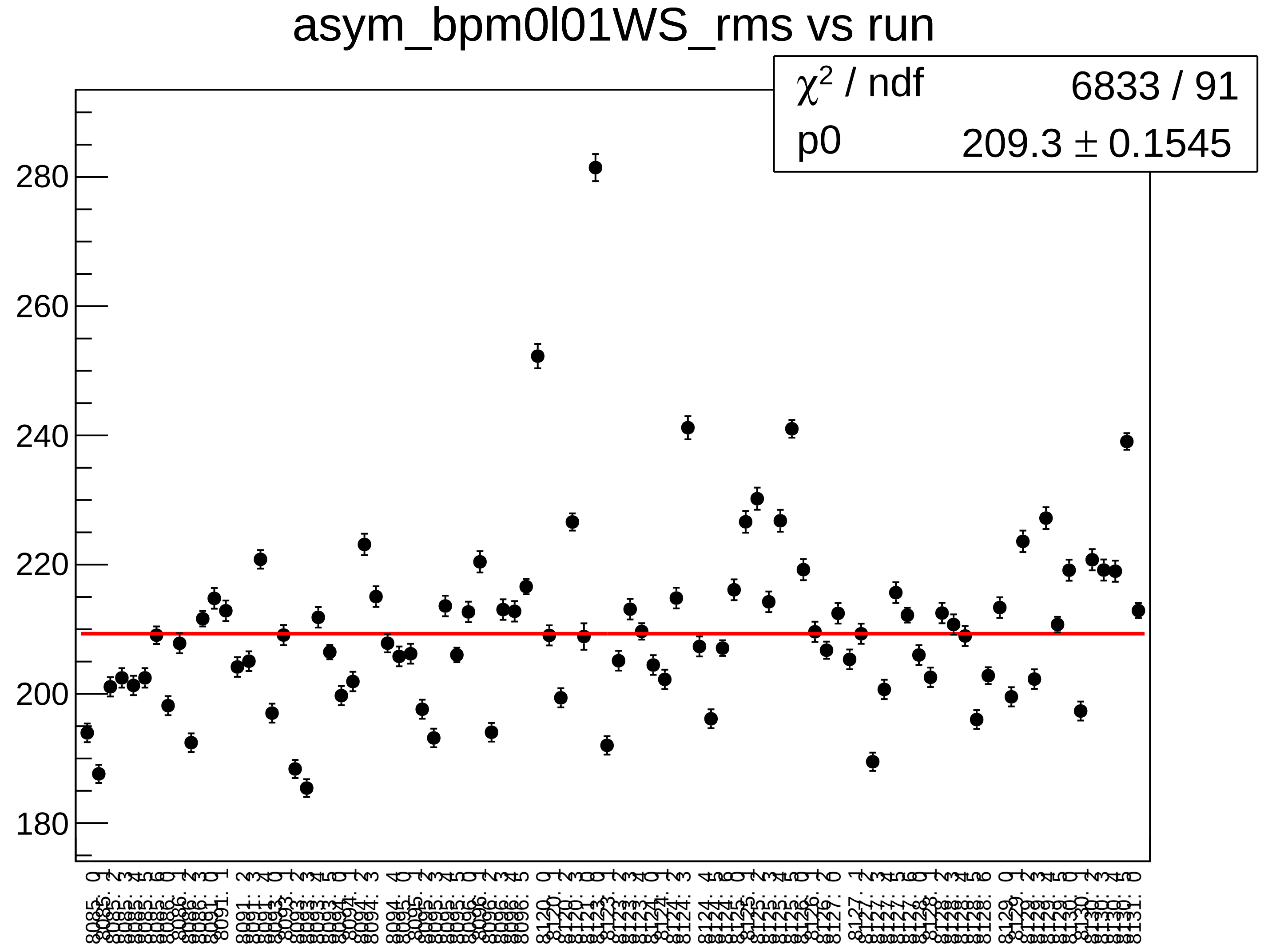

asym_bpm0i07WS_mean vs run
χ^2 / ndf 78.83 / 91
p0 1509 ± 1591
60000
40000
20000
0
−20000
−40000
pull
Entries 92
Mean −168.1
Std Dev 204.9
pull1D
Entries 92
Mean 0.01042
Std Dev 0.9256

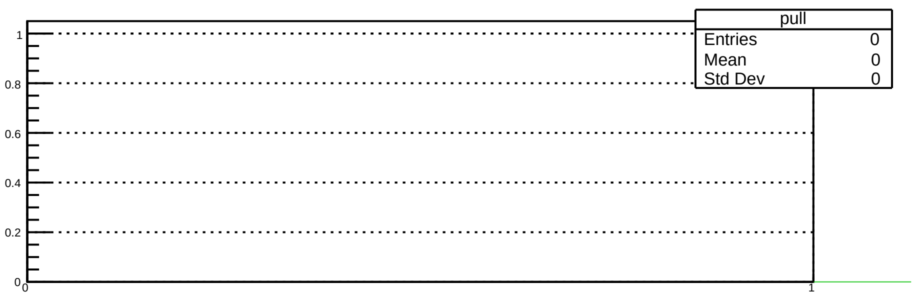


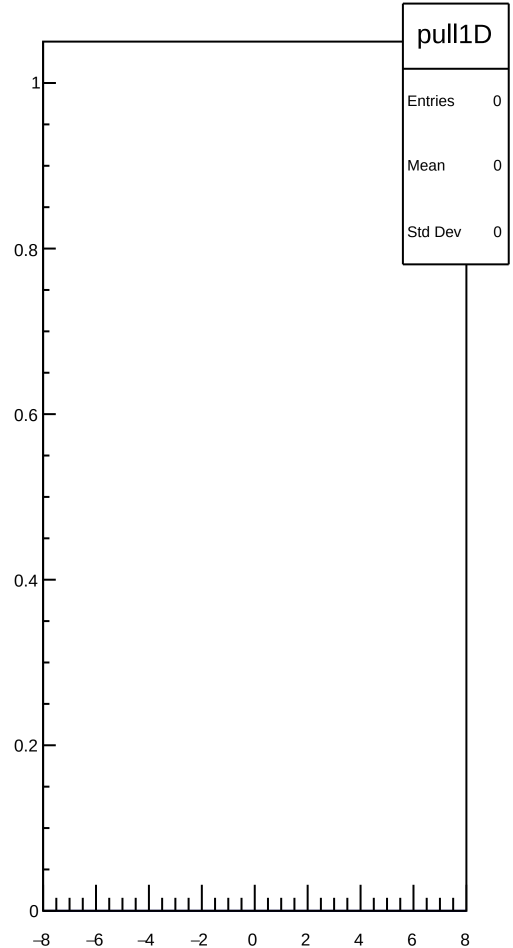
asym_bpm0i07WS_rms vs run
χ2 / ndf 1.757e+04 / 91
p0 1520 ± 1.125
2000
1900
1800
1700
1600
1500
1400
1300
1200

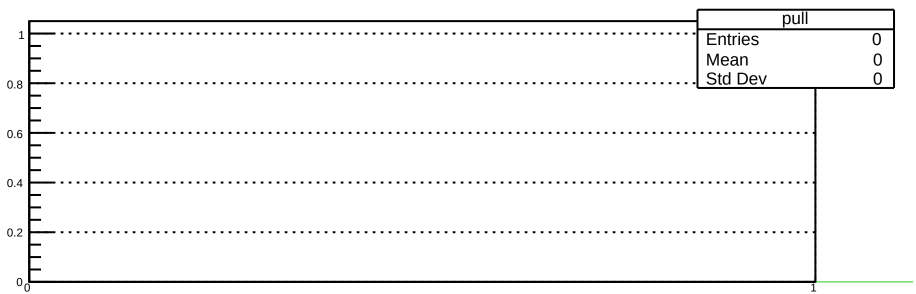


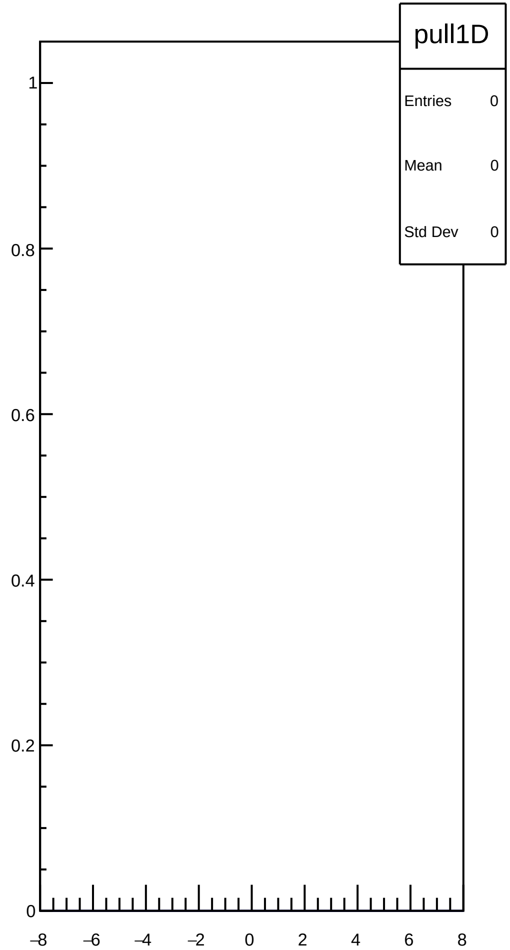
asym_bpm0l01WS_mean vs run
χ^2 / ndf 870.7 / 91
p0 −3777 ± 218.5
pull
Entries 92
Mean −522.5
Std Dev 585.6
pull1D
Entries 92
Mean 0.02984
Std Dev 3.076

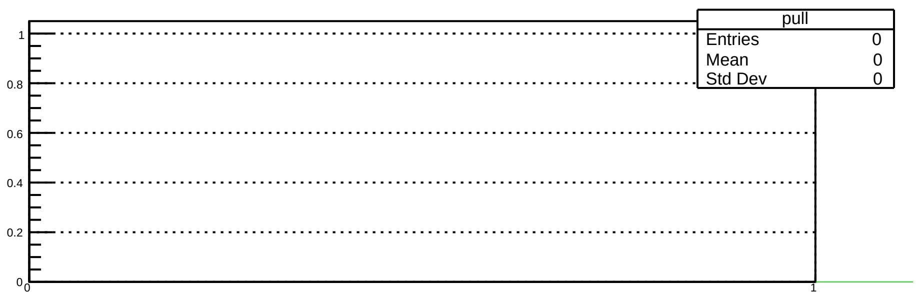

asym_bpm0l01WS_rms vs run
χ2 / ndf 6833 / 91
p0 209.3 ± 0.1545
280
260
240
220
200
180


pull
Entries 0
Mean 0
Std Dev 0

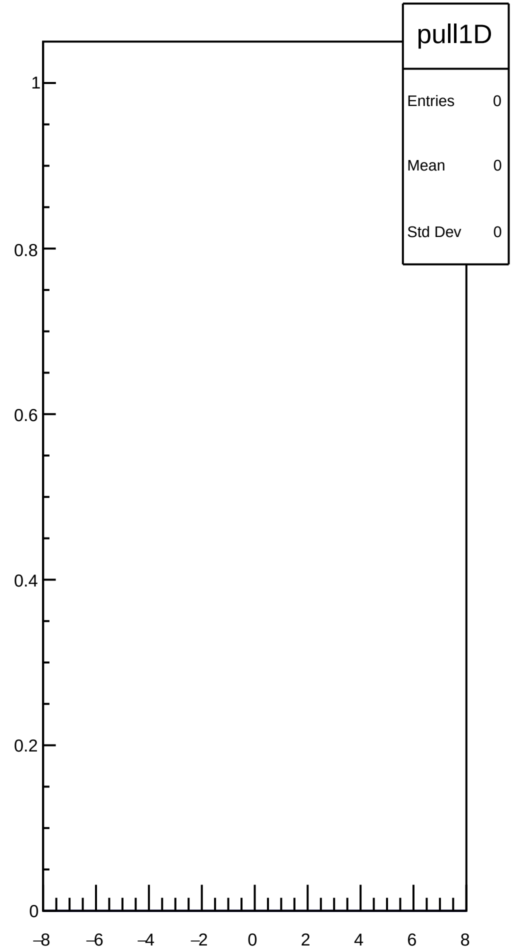

pull1D
Entries 0
Mean 0
Std Dev 0


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

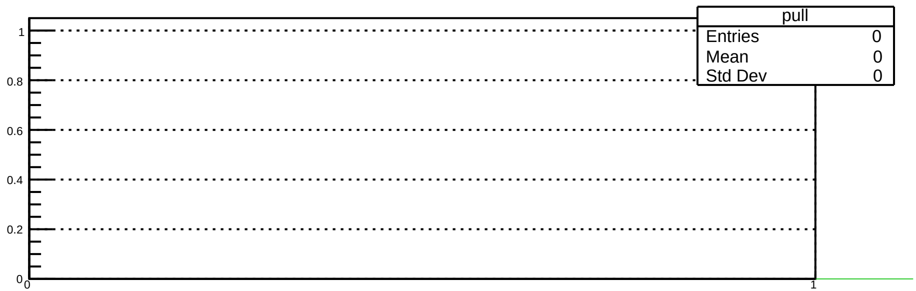

pull1D
Entries 0
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8 –6 –4 –2 0 2 4 6 8



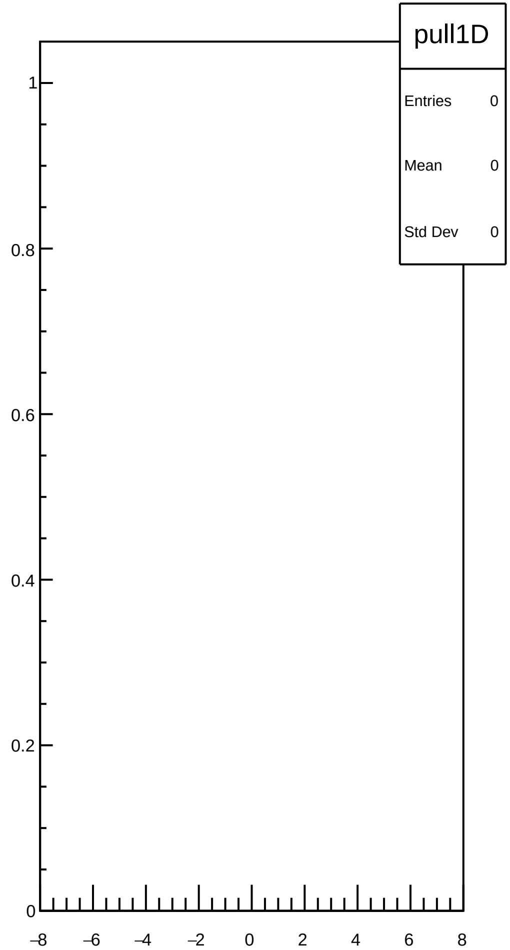
pull
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
0
1



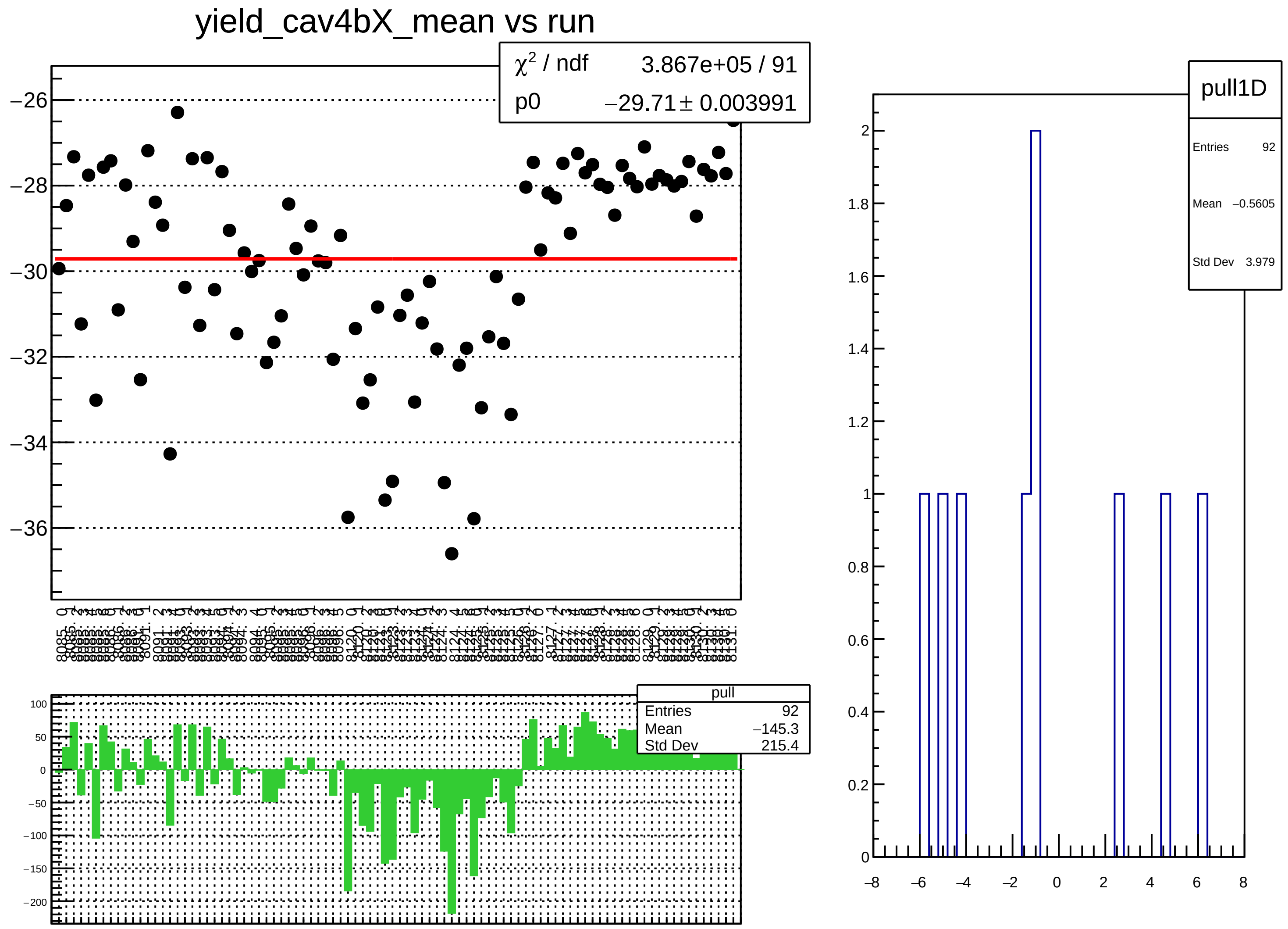
pull1D
Entries 0
Mean 0
Std Dev 0
0
0.2
0.4
0.6
0.8
1
–8
–6
–4
–2
0
2
4
6
8



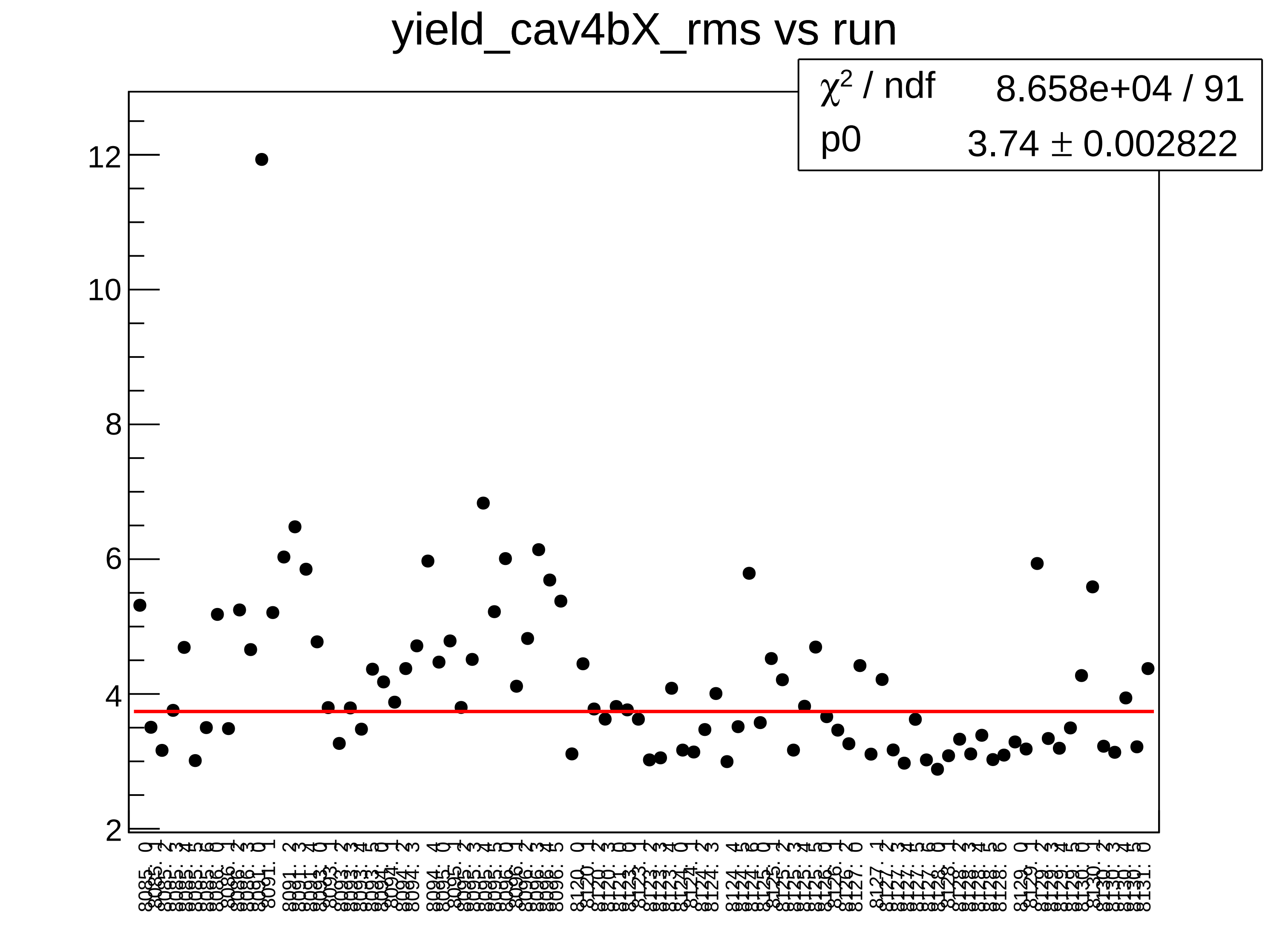
pull
Entries 0
Mean 0
Std Dev 0



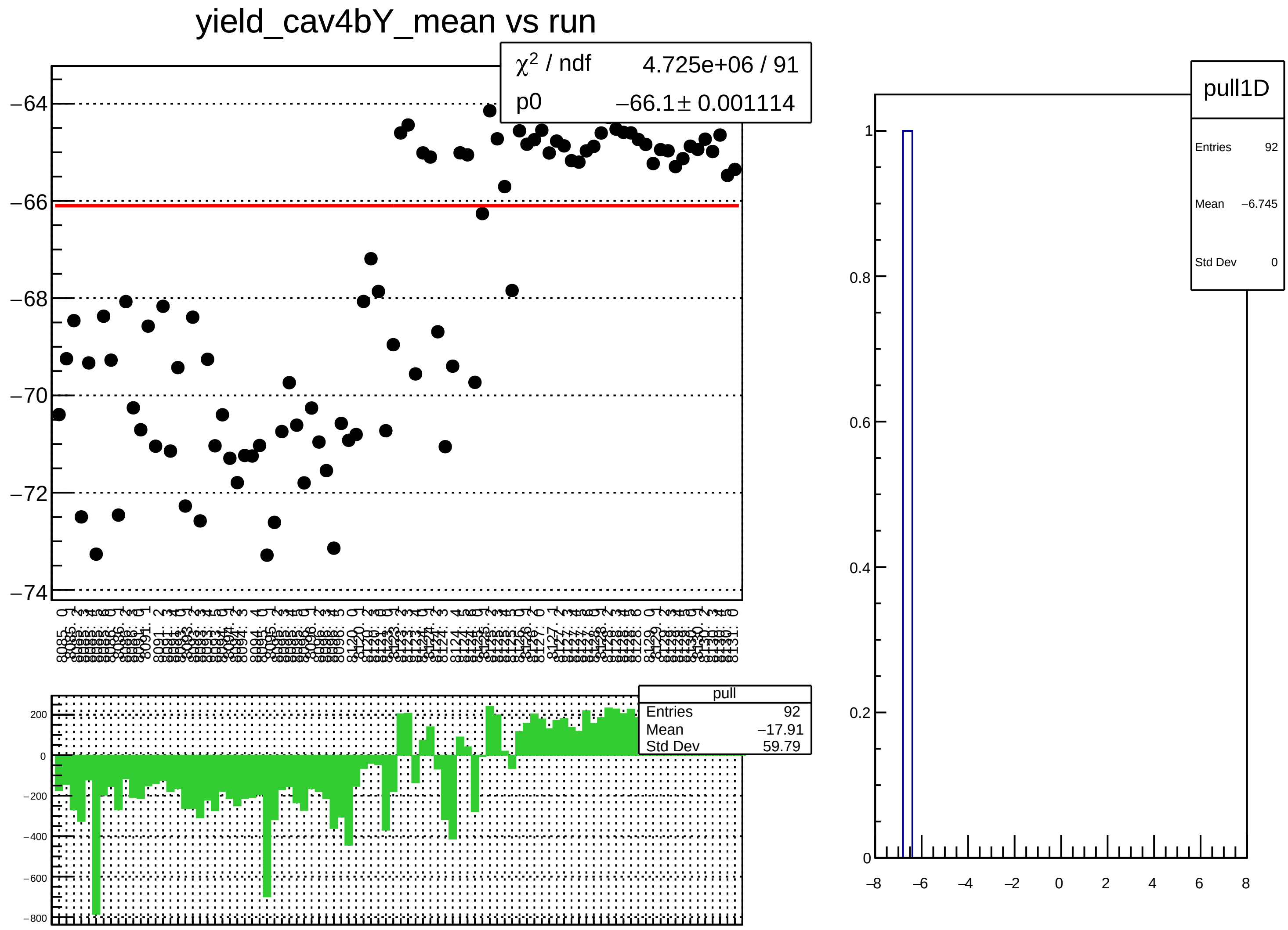
pull1D
Entries 0
Mean 0
Std Dev 0



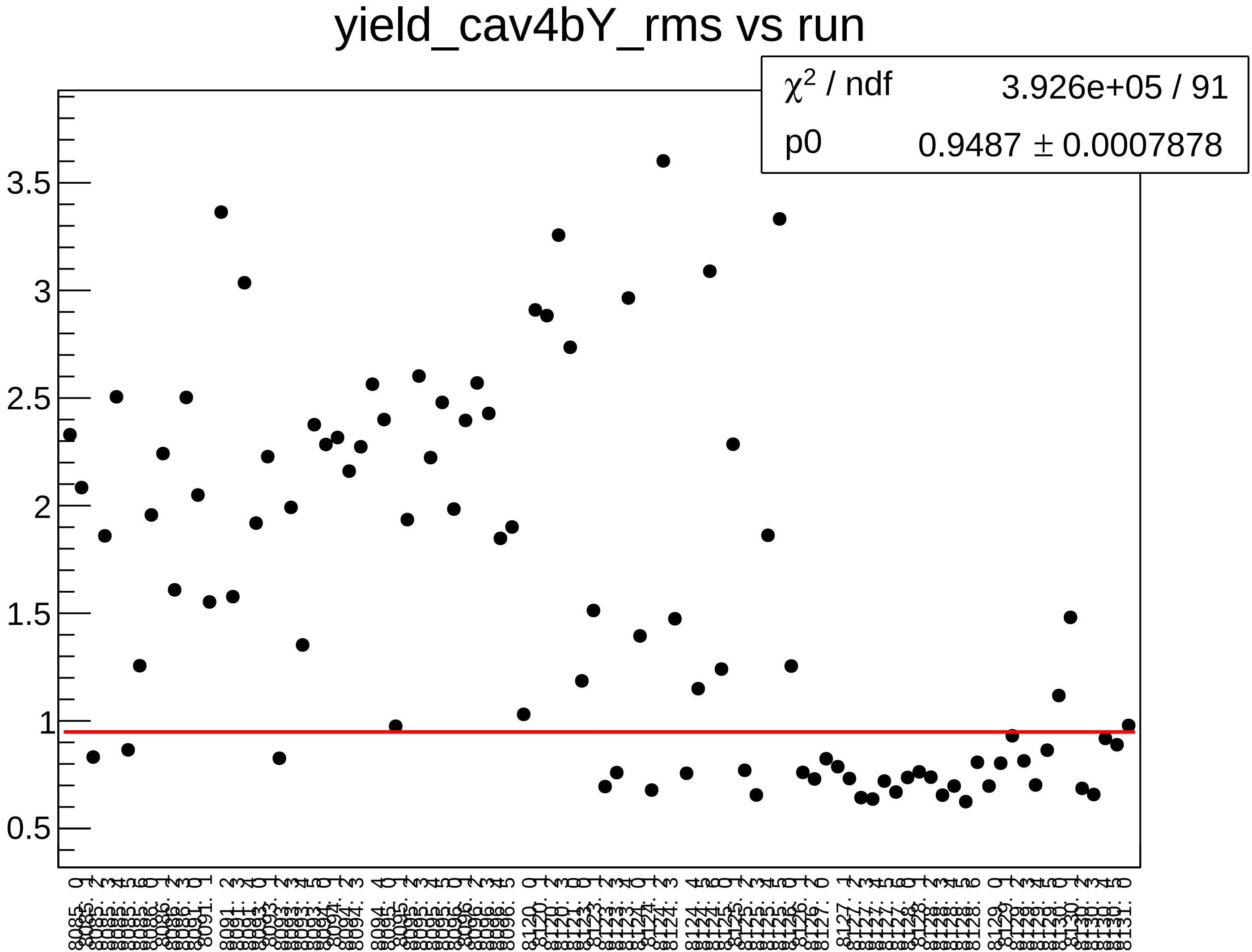
yield_cav4bX_mean vs run
χ^2 / ndf 3.867e+05 / 91
p0 −29.71 ± 0.003991
pull
Entries 92
Mean −145.3
Std Dev 215.4
pull1D
Entries 92
Mean −0.5605
Std Dev 3.979

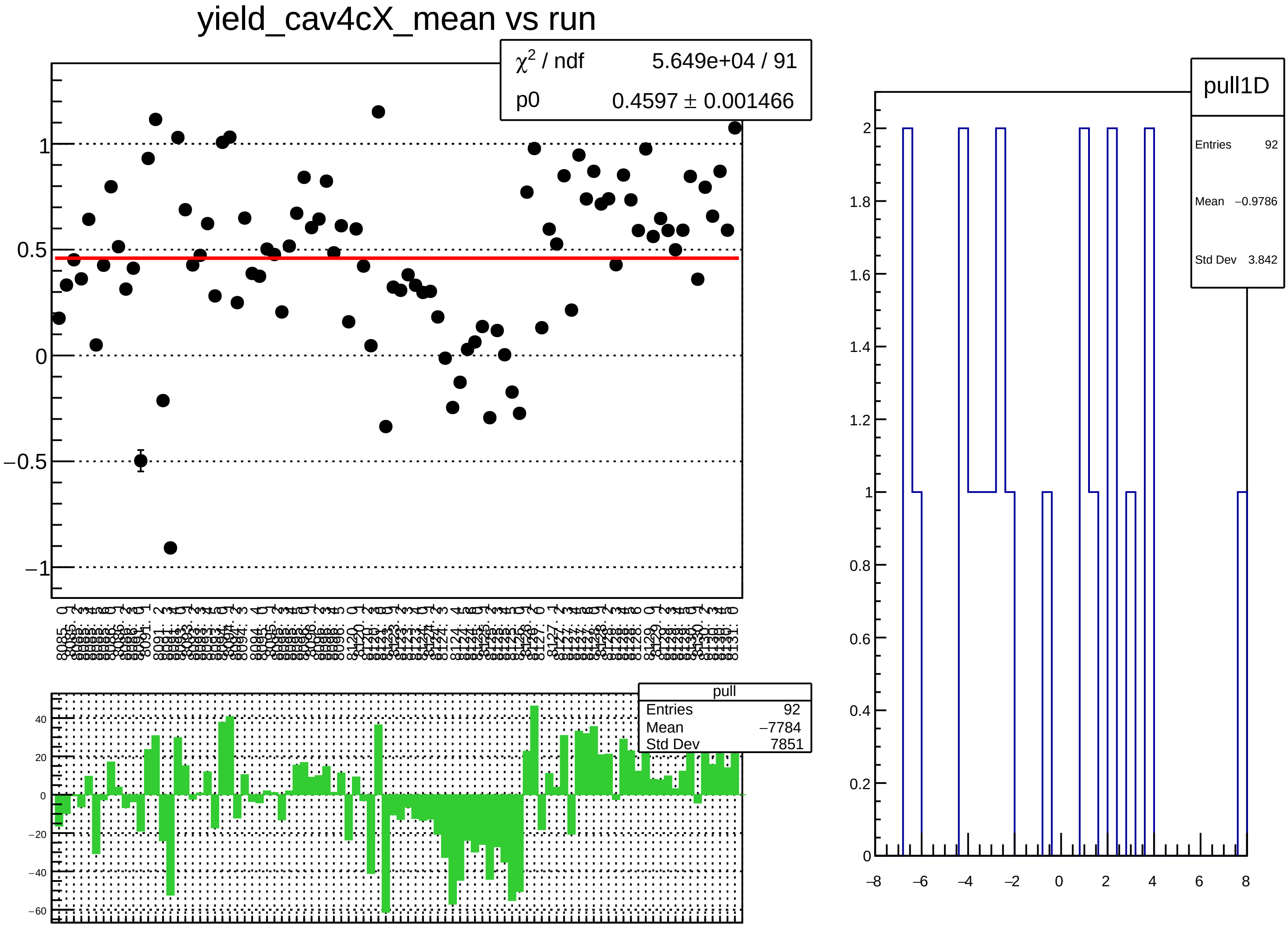


yield_cav4bX_rms vs run
χ^2 / ndf 8.658e+04 / 91
p0 3.74 ± 0.002822
12
10
8
6
4
2

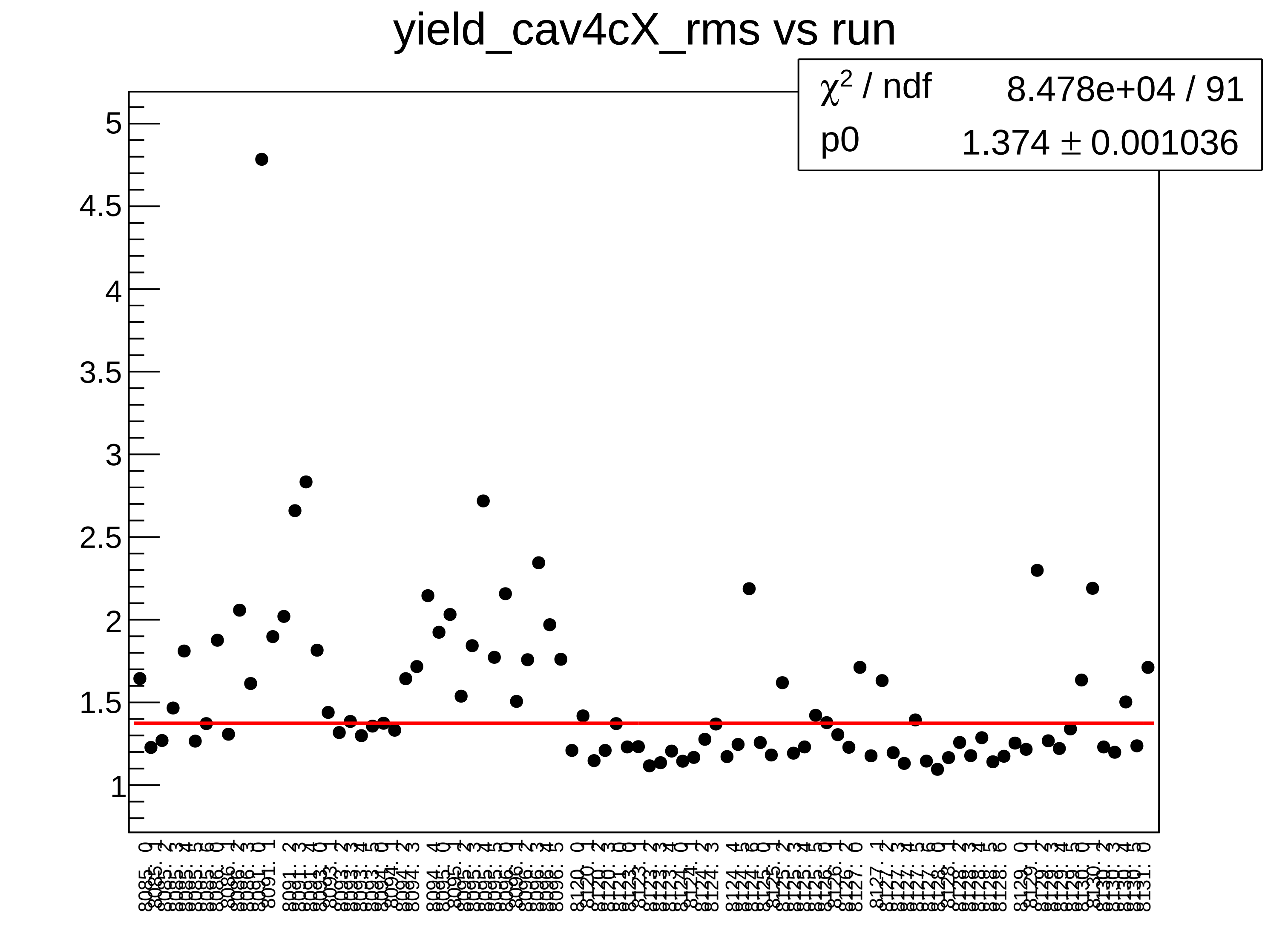


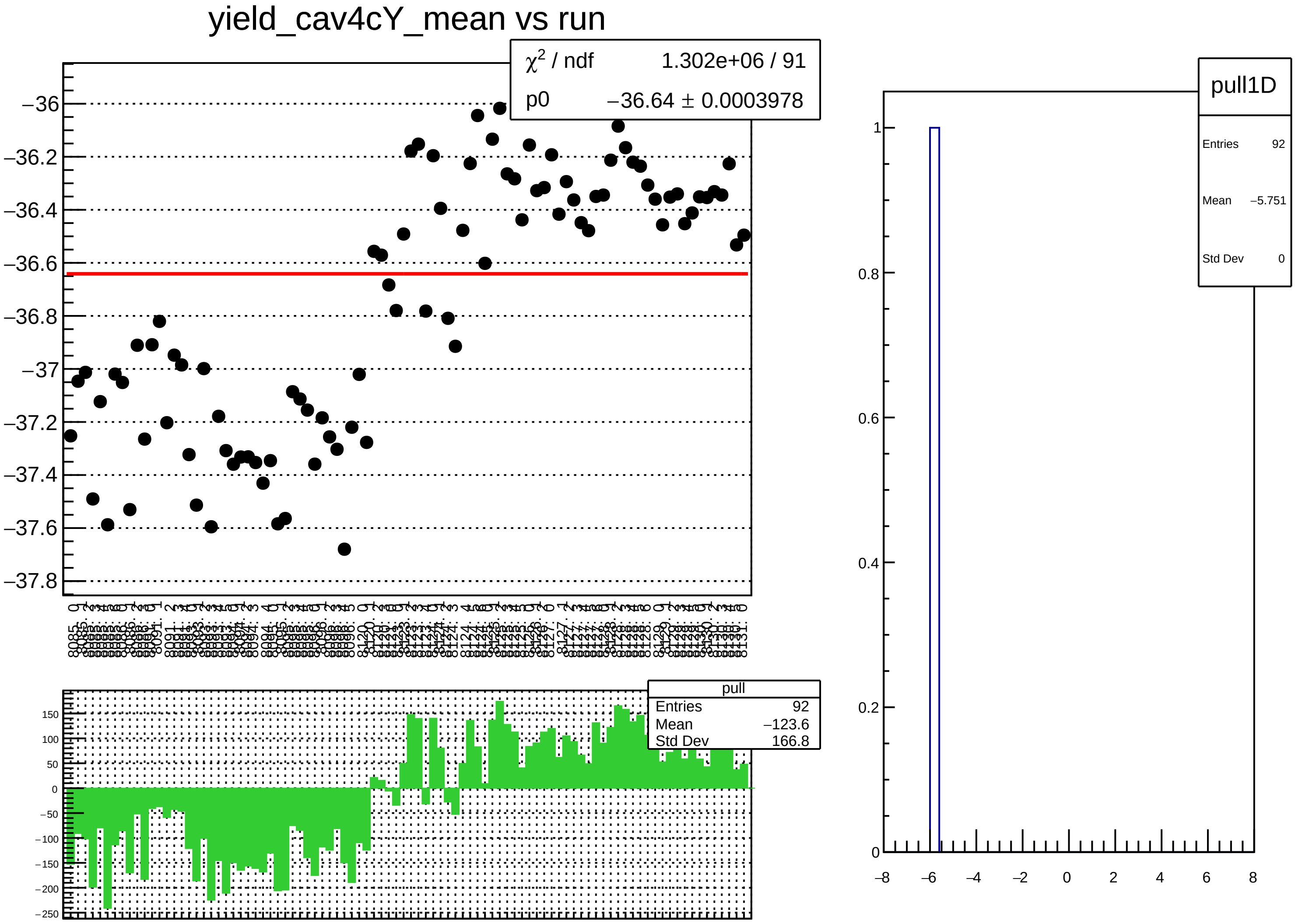
yield_cav4bY_mean vs run
χ^2 / ndf 4.725e+06 / 91
p0 −66.1 ± 0.001114
pull
Entries 92
Mean −17.91
Std Dev 59.79
pull1D
Entries 92
Mean −6.745
Std Dev 0


yield_cav4bY_rms vs run
χ^2 / ndf 3.926e+05 / 91
p0 0.9487 ± 0.0007878
3.5
3
2.5
2
1.5
1
0.5

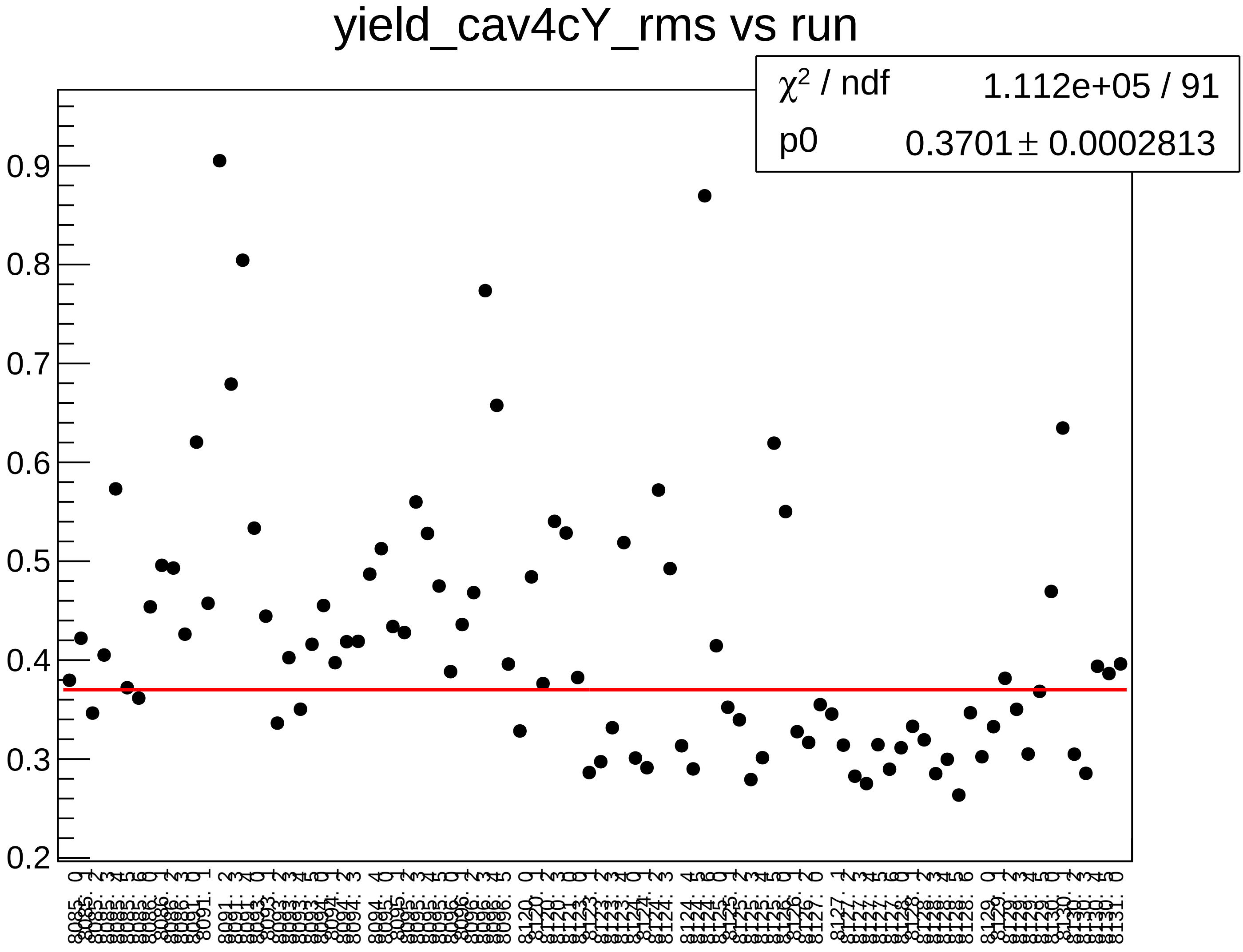


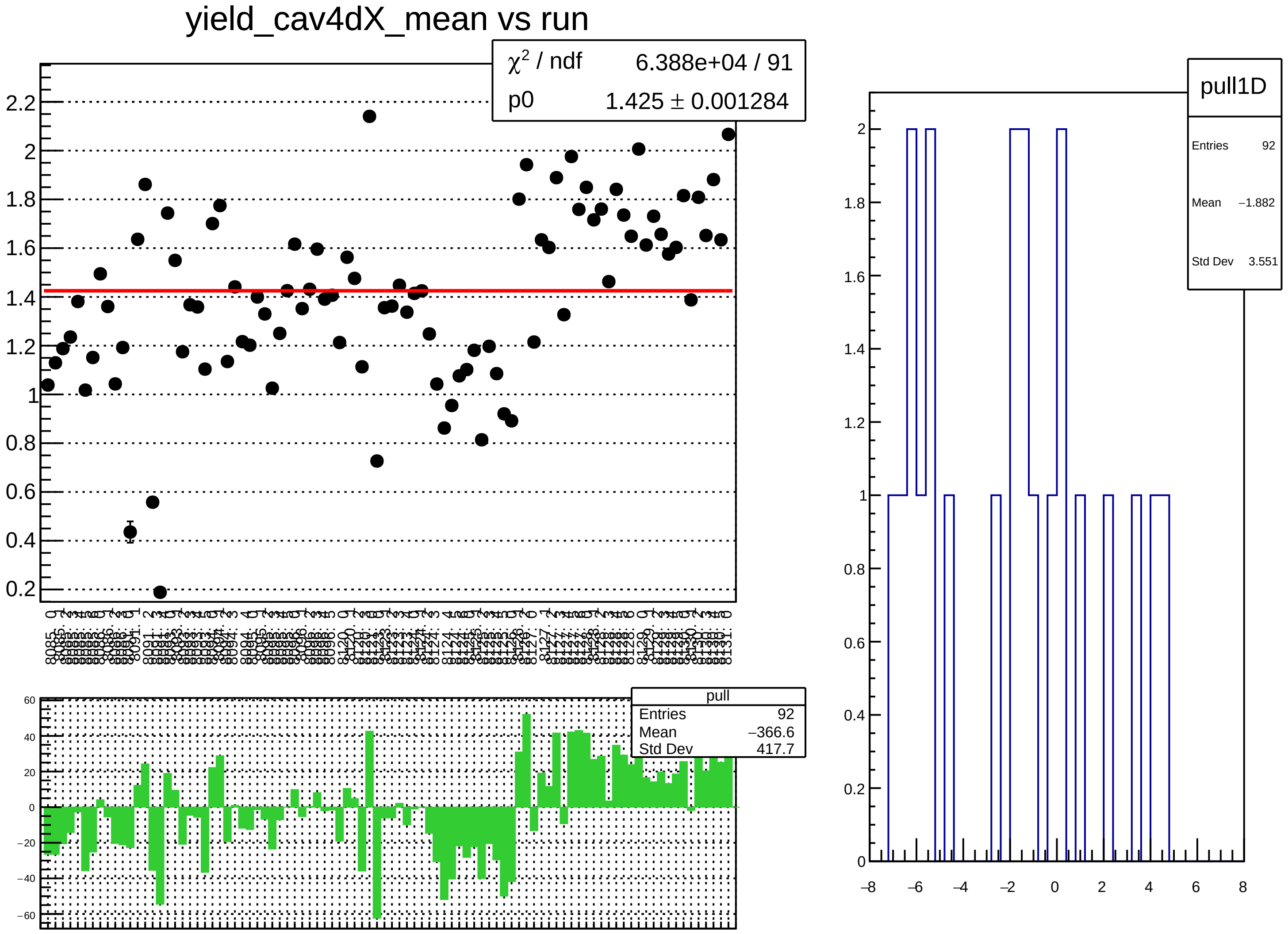
yield_cav4cX_mean vs run
χ2 / ndf 5.649e+04 / 91
p0 0.4597 ± 0.001466
pull
Entries 92
Mean −7784
Std Dev 7851
pull1D
Entries 92
Mean −0.9786
Std Dev 3.842


yield_cav4cX_rms vs run
χ^2 / ndf 8.478e+04 / 91
p0 1.374 ± 0.001036

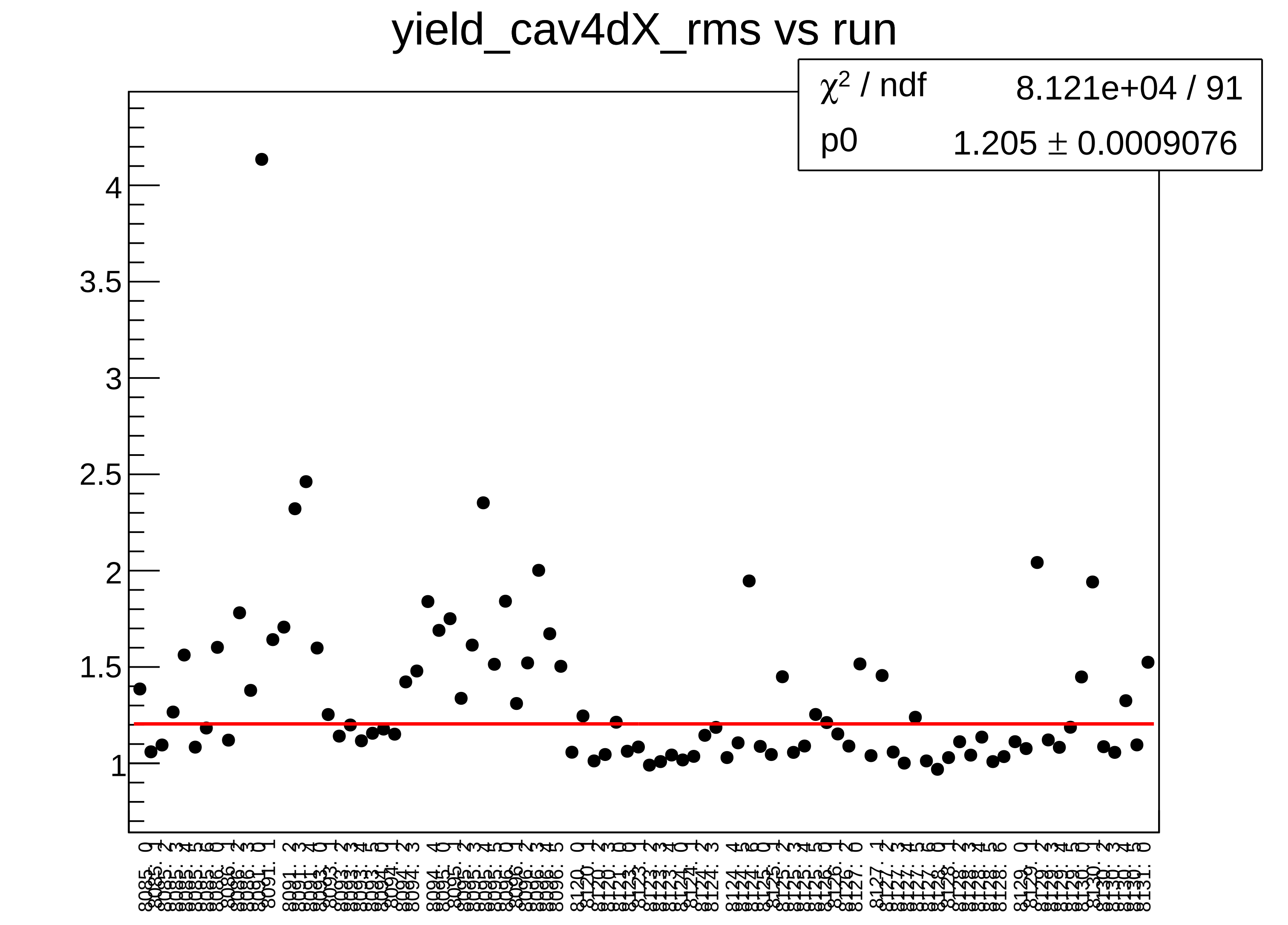


yield_cav4cY_mean vs run
χ^2 / ndf 1.302e+06 / 91
p0 −36.64 ± 0.0003978
pull
Entries 92
Mean −123.6
Std Dev 166.8
pull1D
Entries 92
Mean −5.751
Std Dev 0

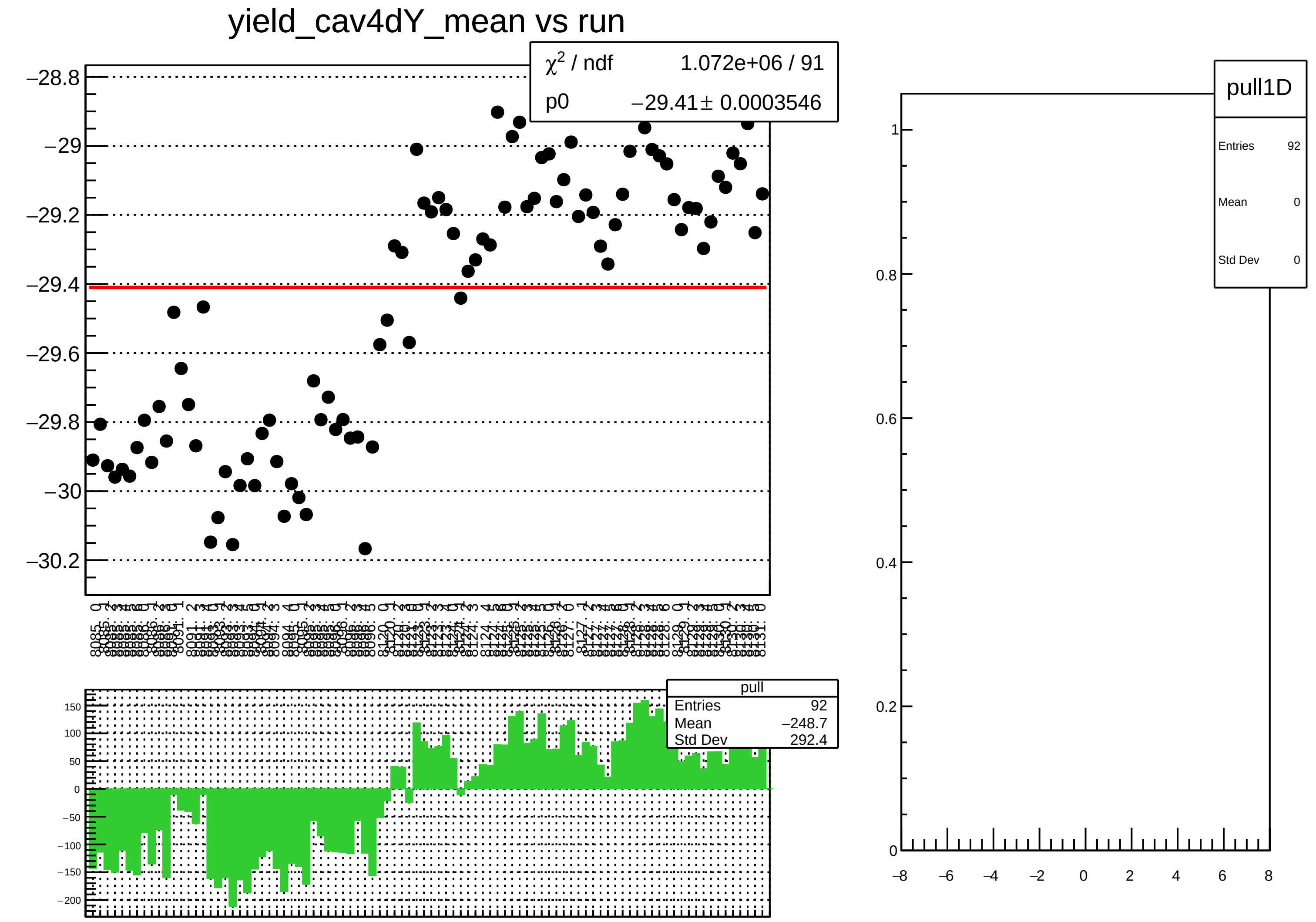

yield_cav4cY_rms vs run
χ^2 / ndf 1.112e+05 / 91
p0 0.3701 ± 0.0002813
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2



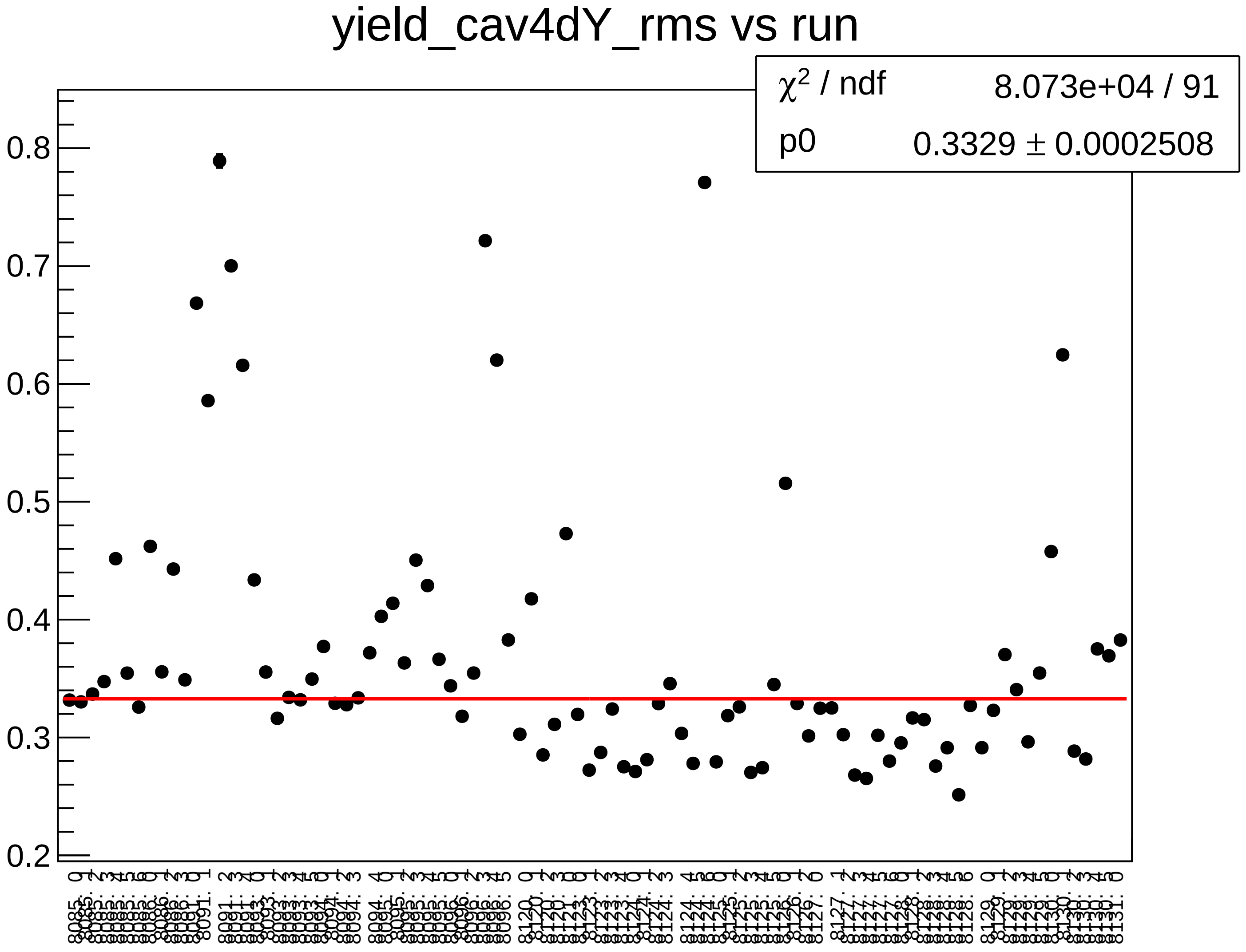
yield_cav4dX_mean vs run
χ^2 / ndf 6.388e+04 / 91
p0 1.425 ± 0.001284
pull
Entries 92
Mean −366.6
Std Dev 417.7
pull1D
Entries 92
Mean −1.882
Std Dev 3.551

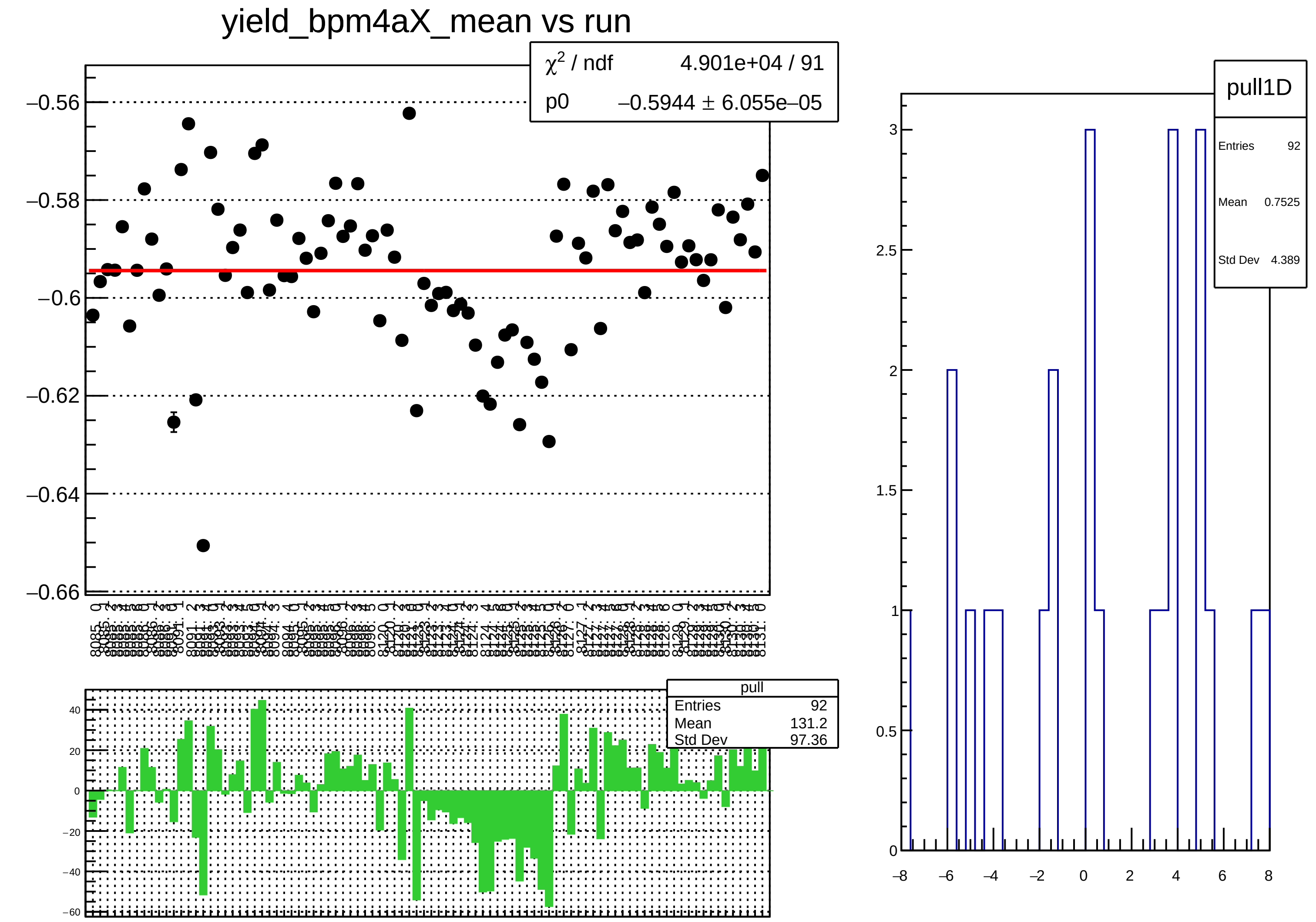


yield_cav4dX_rms vs run
χ^2 / ndf 8.121e+04 / 91
p0 1.205 ± 0.0009076
4
3.5
3
2.5
2
1.5
1

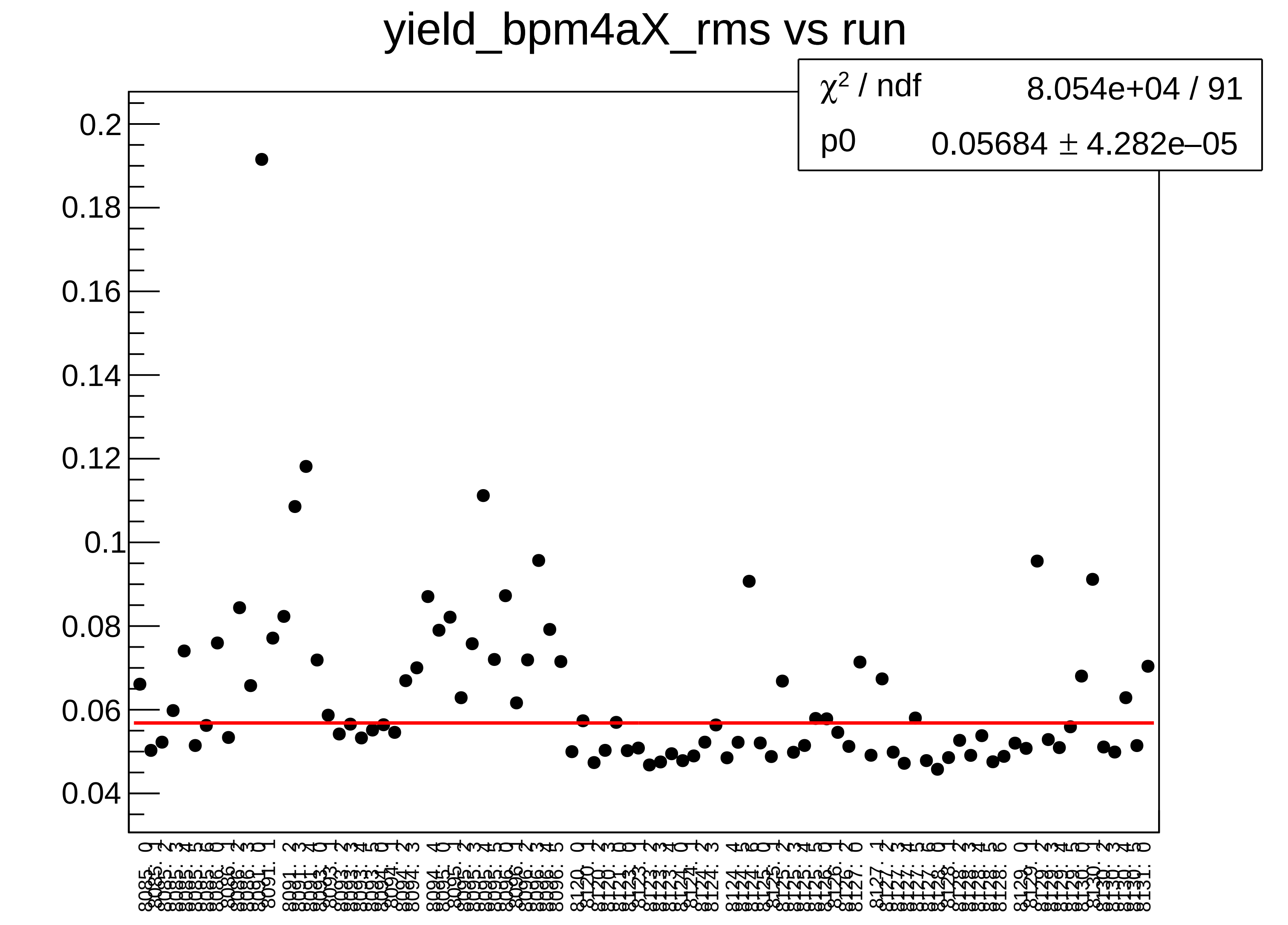


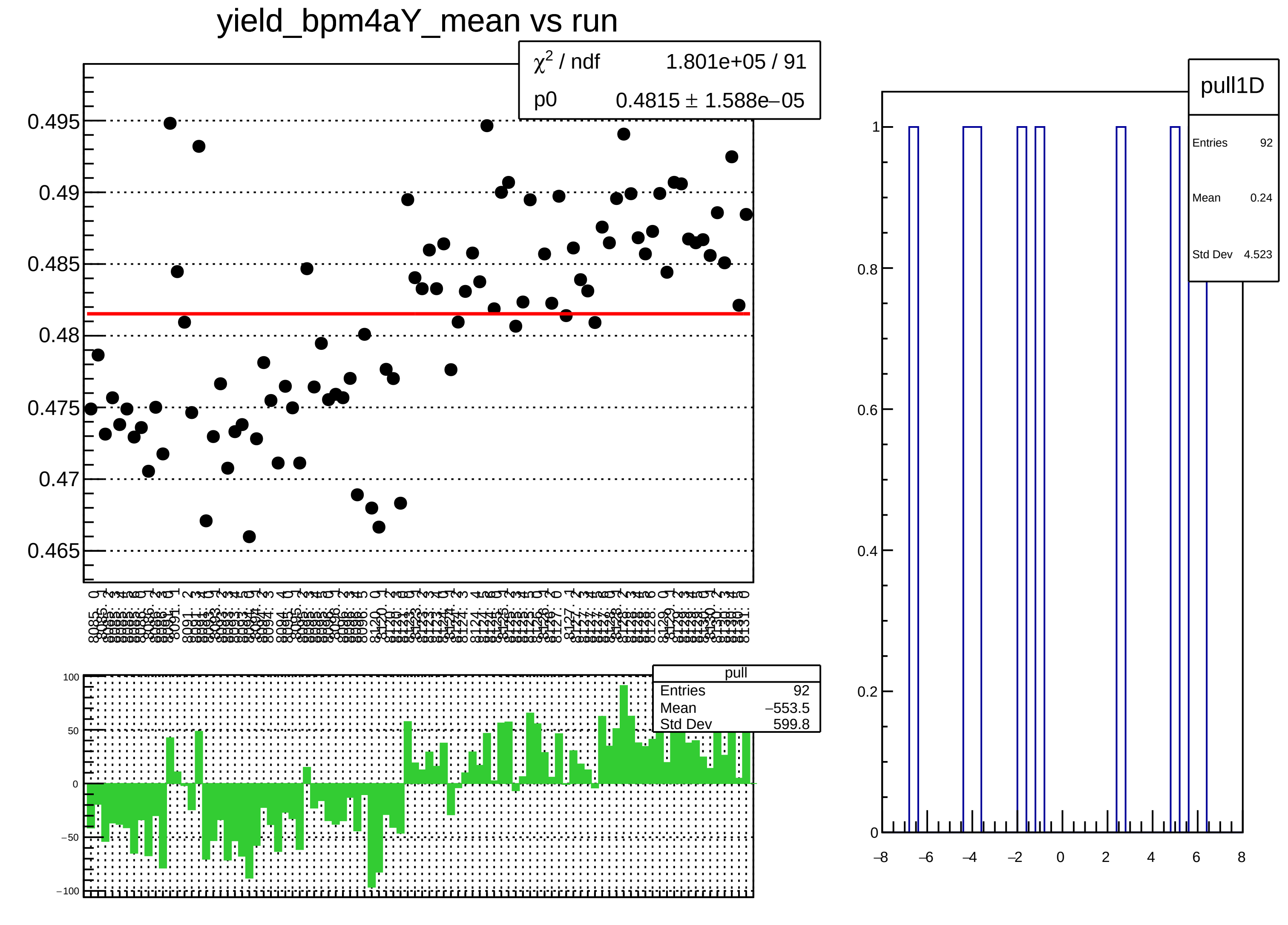
yield_cav4dY_mean vs run
χ^2 / ndf 1.072e+06 / 91
p0 −29.41 ± 0.0003546
pull
Entries 92
Mean −248.7
Std Dev 292.4
pull1D
Entries 92
Mean 0
Std Dev 0


yield_cav4dY_rms vs run
χ^2 / ndf 8.073e+04 / 91
p0 0.3329 ± 0.0002508
0.8
0.7
0.6
0.5
0.4
0.3
0.2

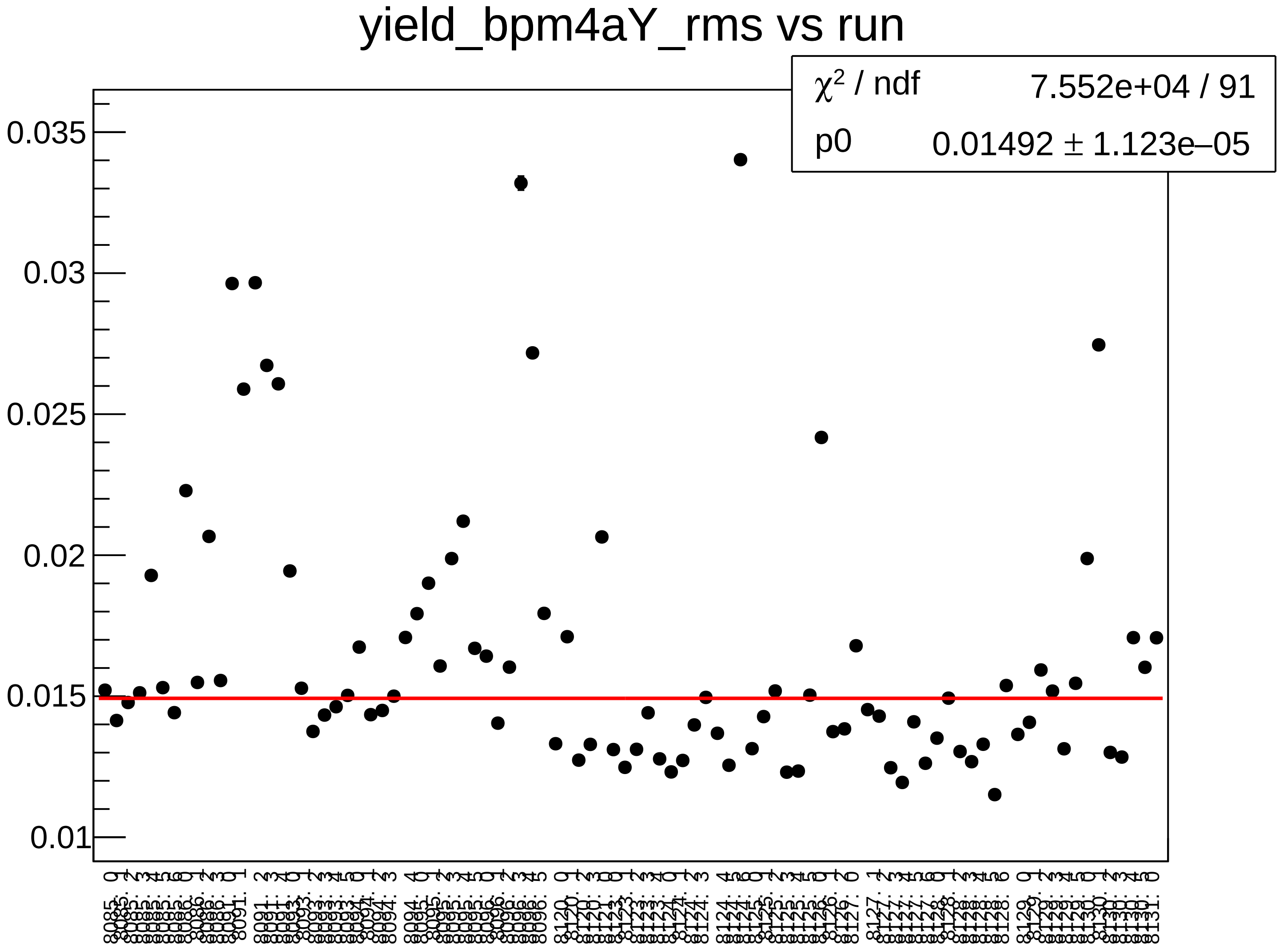


yield_bpm4aX_mean vs run
χ^2 / ndf 4.901e+04 / 91
p0 −0.5944 ± 6.055e−05
pull
Entries 92
Mean 131.2
Std Dev 97.36
pull1D
Entries 92
Mean 0.7525
Std Dev 4.389

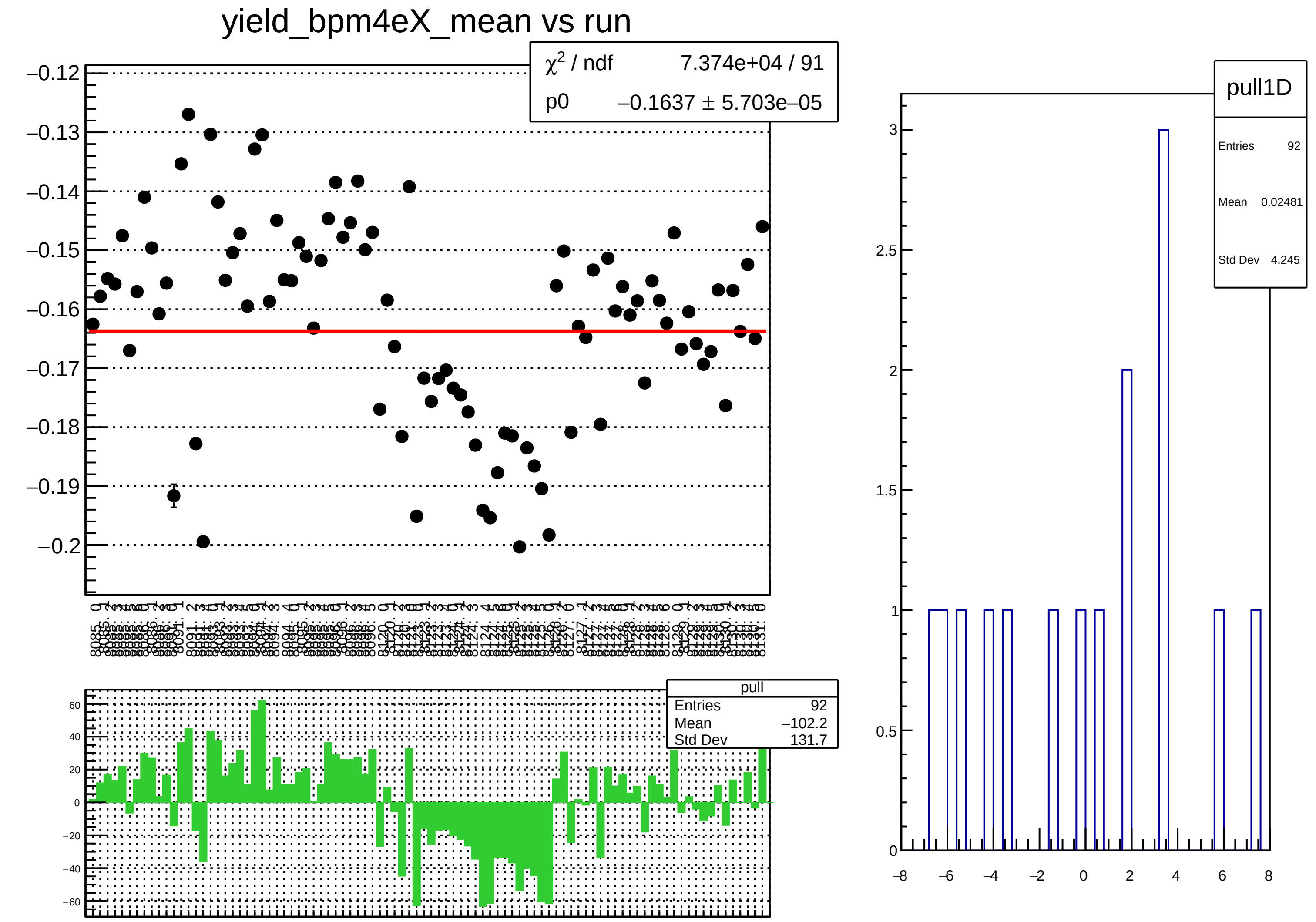




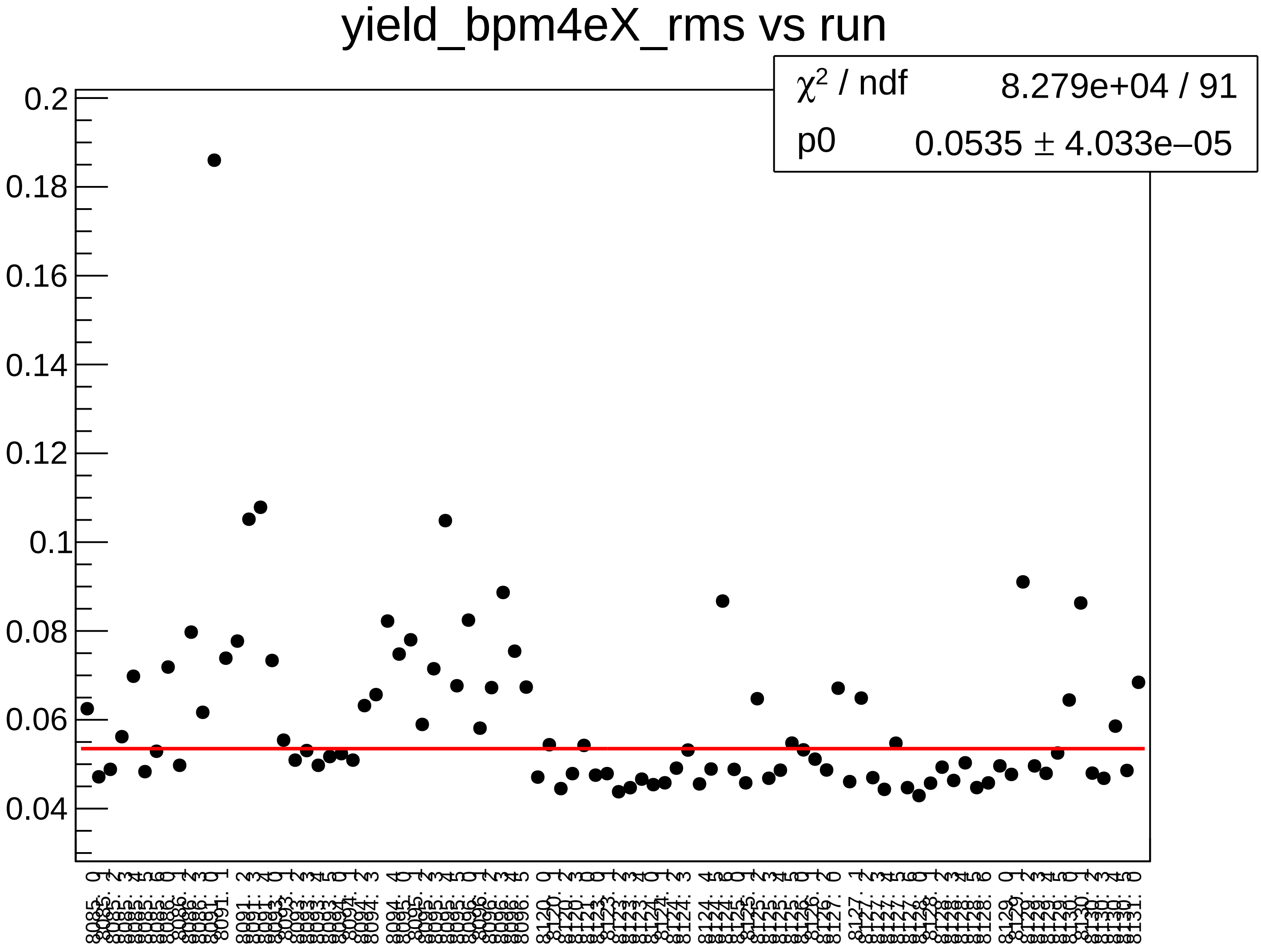
yield_bpm4aY_mean vs run
χ^2 / ndf 1.801e+05 / 91
p0 0.4815 ± 1.588e−05
0.495
0.49
0.485
0.48
0.475
0.47
0.465
pull
Entries 92
Mean −553.5
Std Dev 599.8
100
50
0
−50
−100
pull1D
Entries 92
Mean 0.24
Std Dev 4.523
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



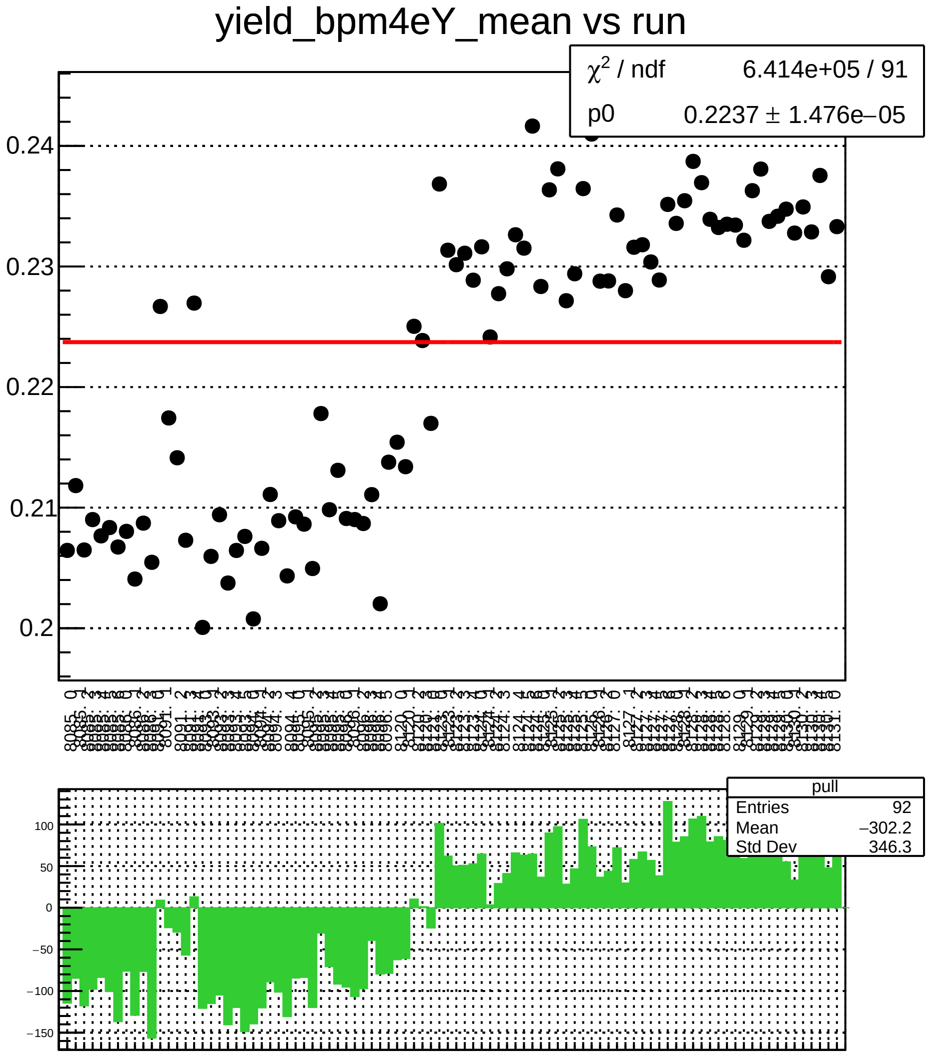
yield_bpm4aY_rms vs run
χ^2 / ndf 7.552e+04 / 91
p0 0.01492 ± 1.123e−05
0.035
0.03
0.025
0.02
0.015
0.01

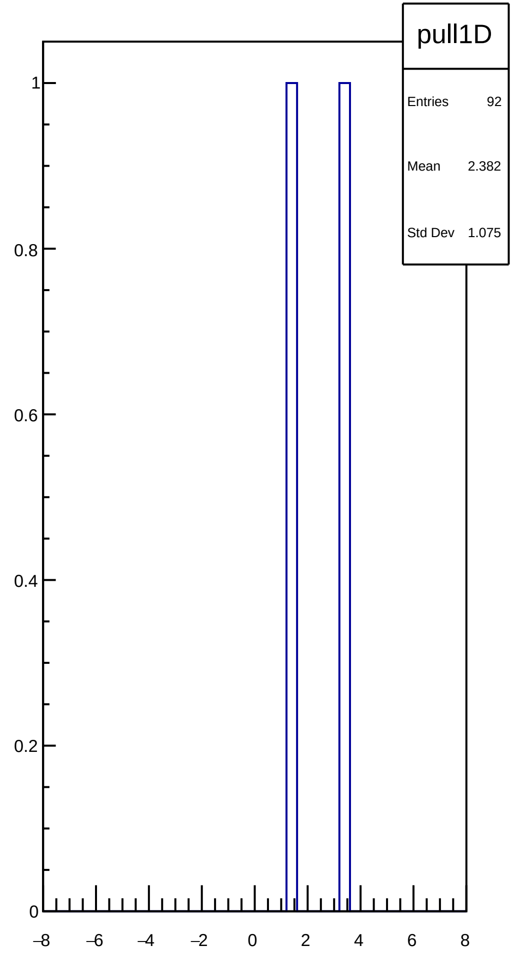


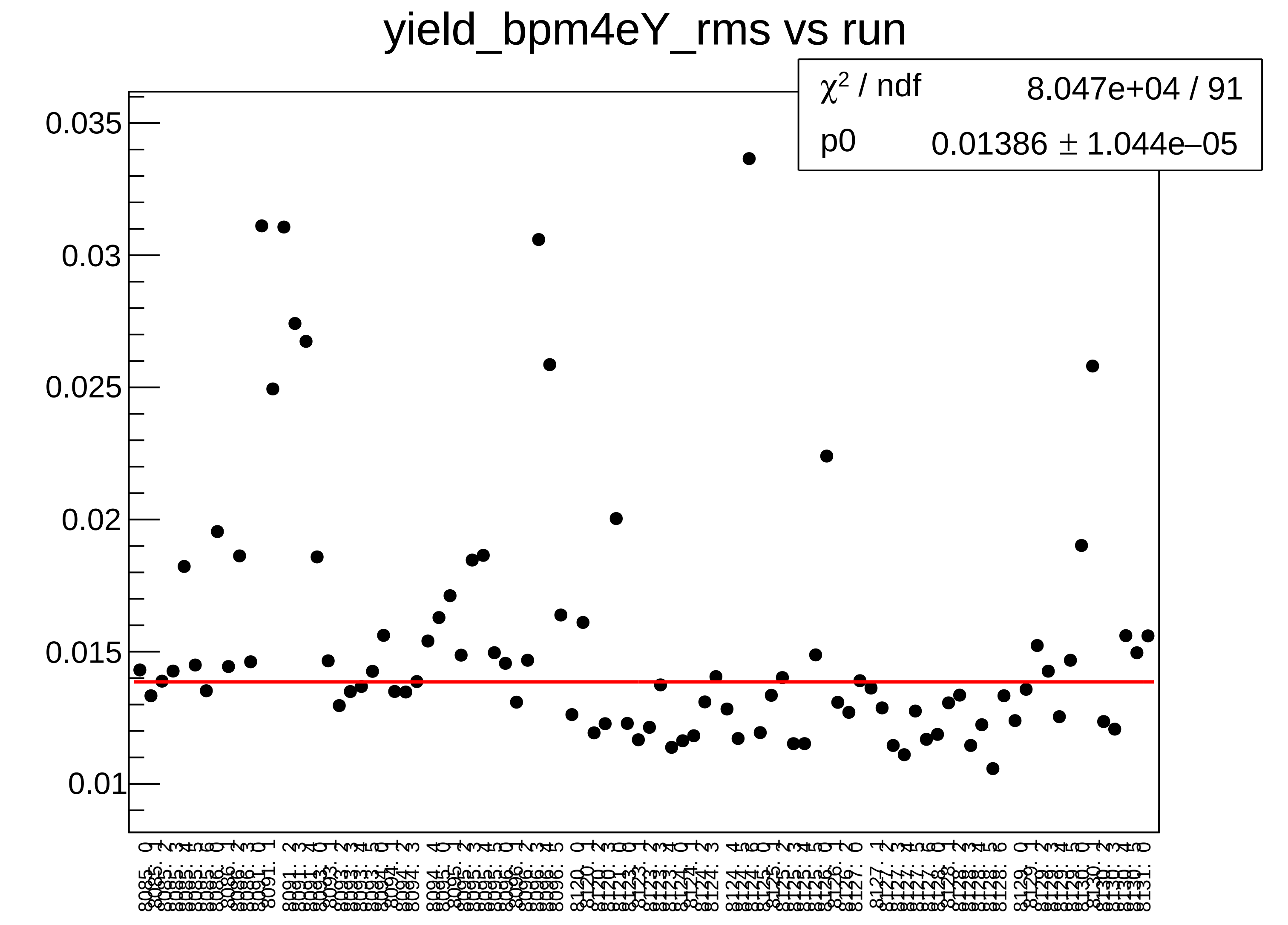
yield_bpm4eX_mean vs run
χ^2 / ndf 7.374e+04 / 91
p0 −0.1637 ± 5.703e−05
pull
Entries 92
Mean −102.2
Std Dev 131.7
pull1D
Entries 92
Mean 0.02481
Std Dev 4.245

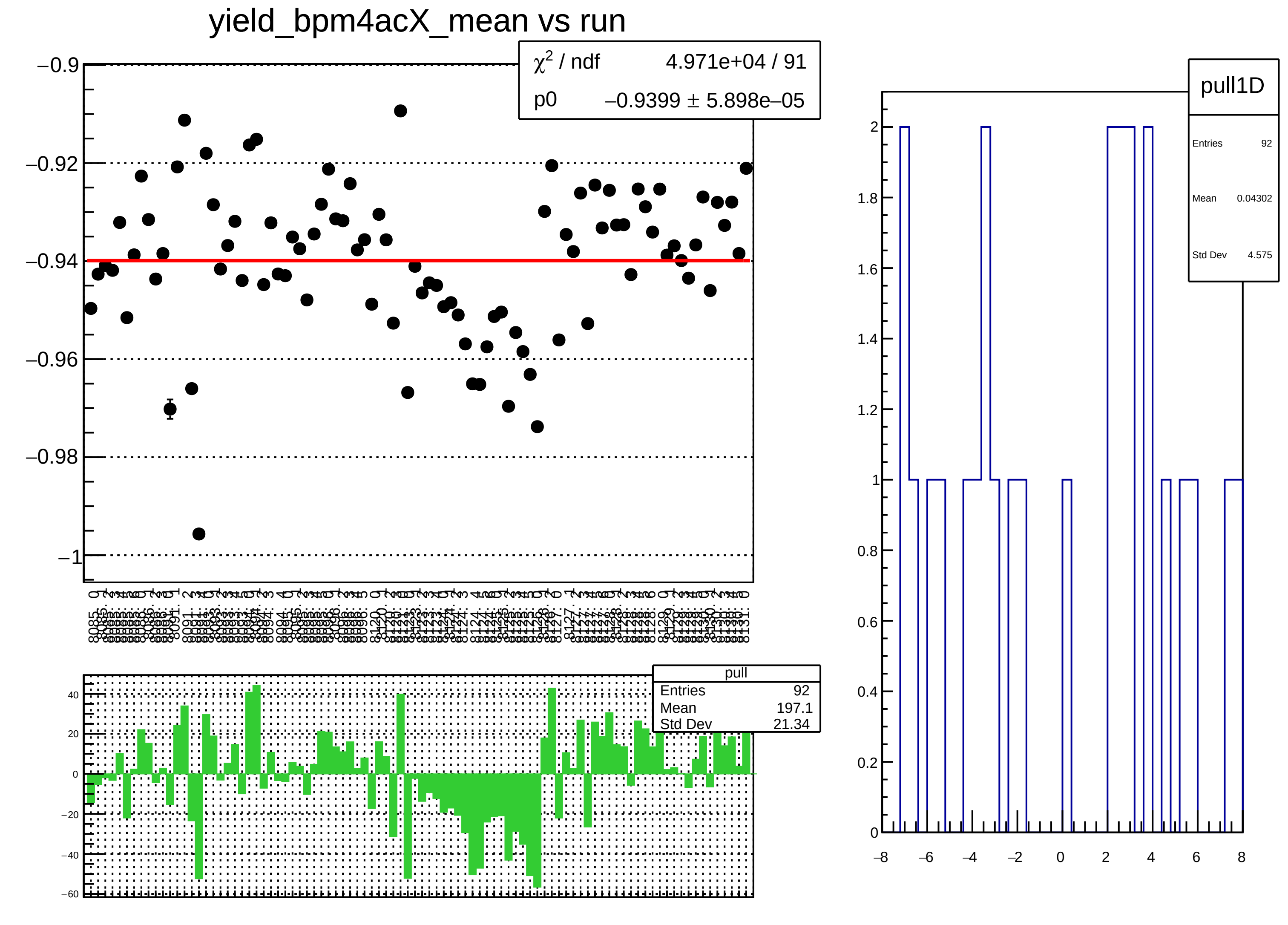


yield_bpm4eX_rms vs run
χ2 / ndf 8.279e+04 / 91
p0 0.0535 ± 4.033e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

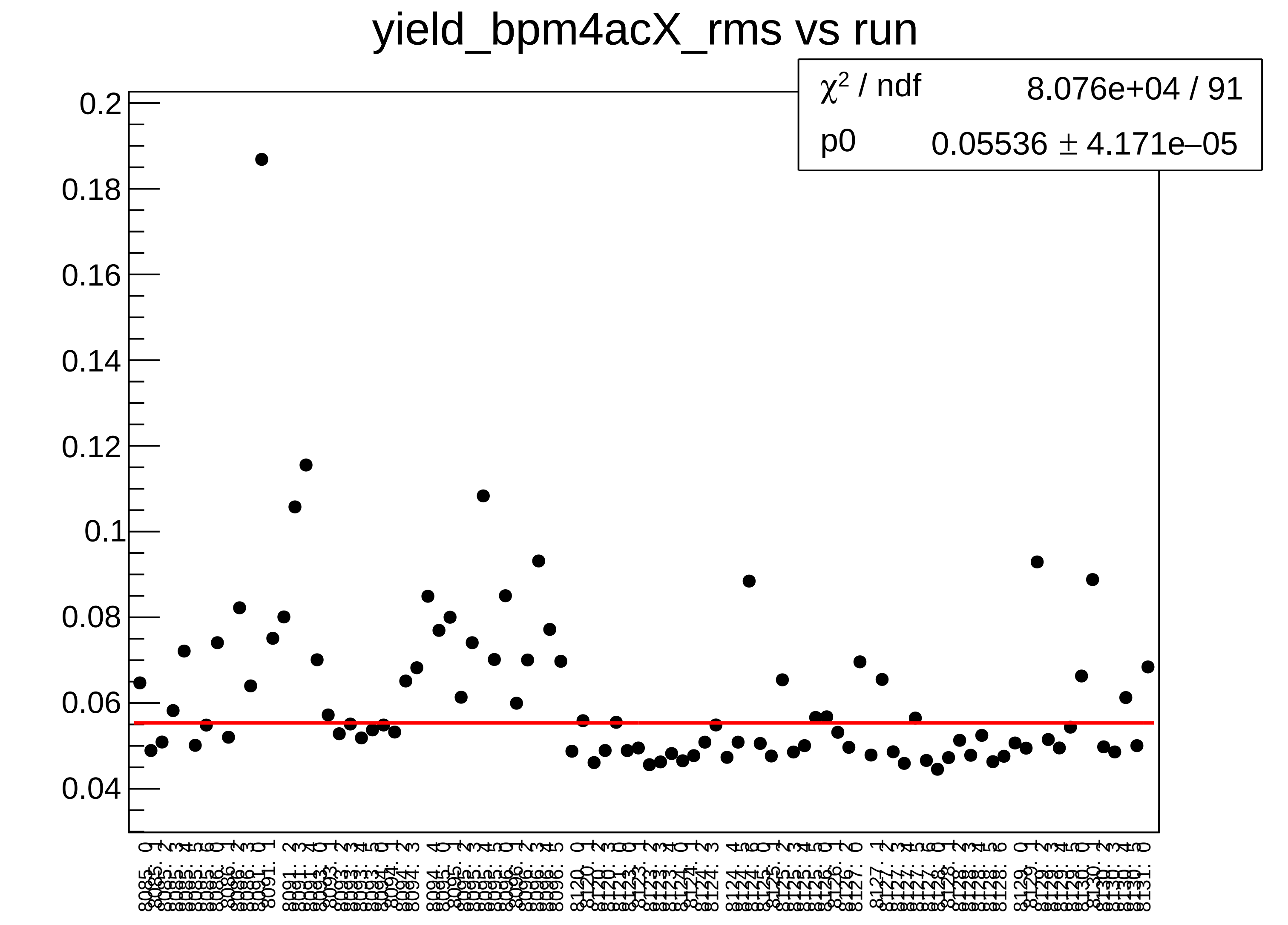

yield_bpm4eY_mean vs run
χ^2 / ndf 6.414e+05 / 91
p0 0.2237 ± 1.476e−05
0.24
0.23
0.22
0.21
0.2
pull
Entries 92
Mean −302.2
Std Dev 346.3
100
50
0
−50
−100
−150


pull1D
Entries 92
Mean 2.382
Std Dev 1.075
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

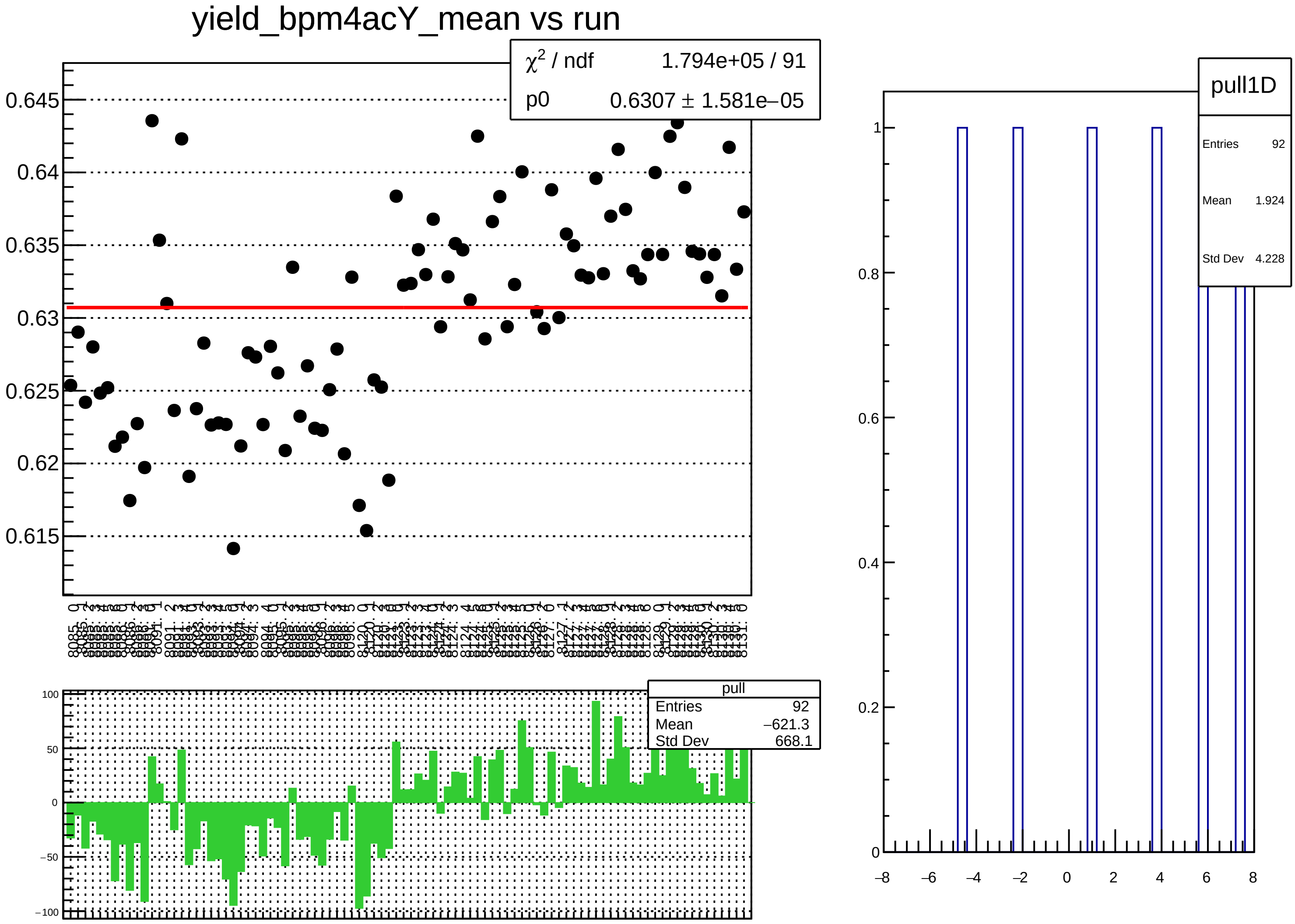

yield_bpm4eY_rms vs run
χ² / ndf 8.047e+04 / 91
p0 0.01386 ± 1.044e−05
0.035
0.03
0.025
0.02
0.015
0.01



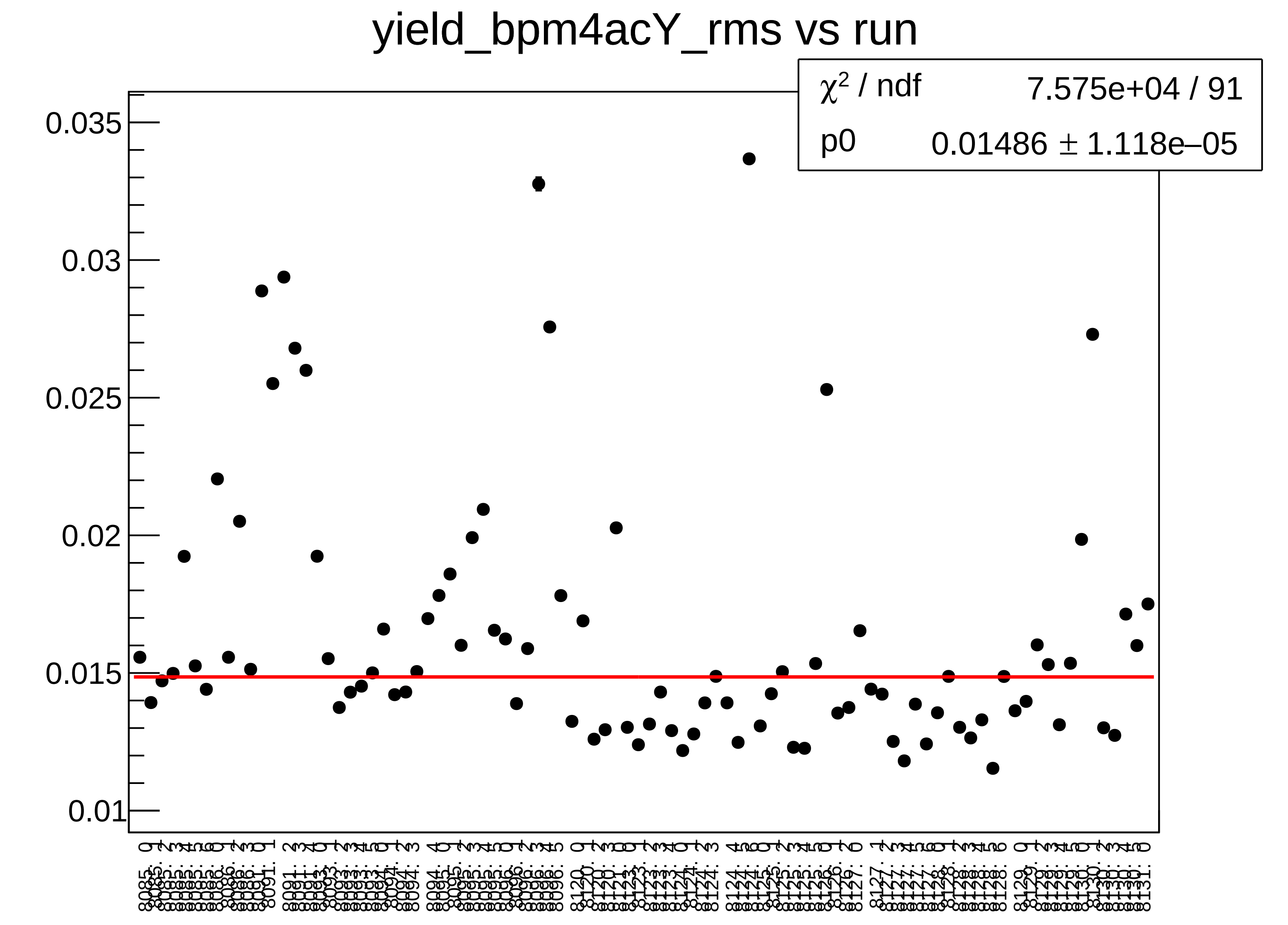
yield_bpm4acX_mean vs run
χ^2 / ndf 4.971e+04 / 91
p0 −0.9399 ± 5.898e−05
pull
Entries 92
Mean 197.1
Std Dev 21.34
pull1D
Entries 92
Mean 0.04302
Std Dev 4.575

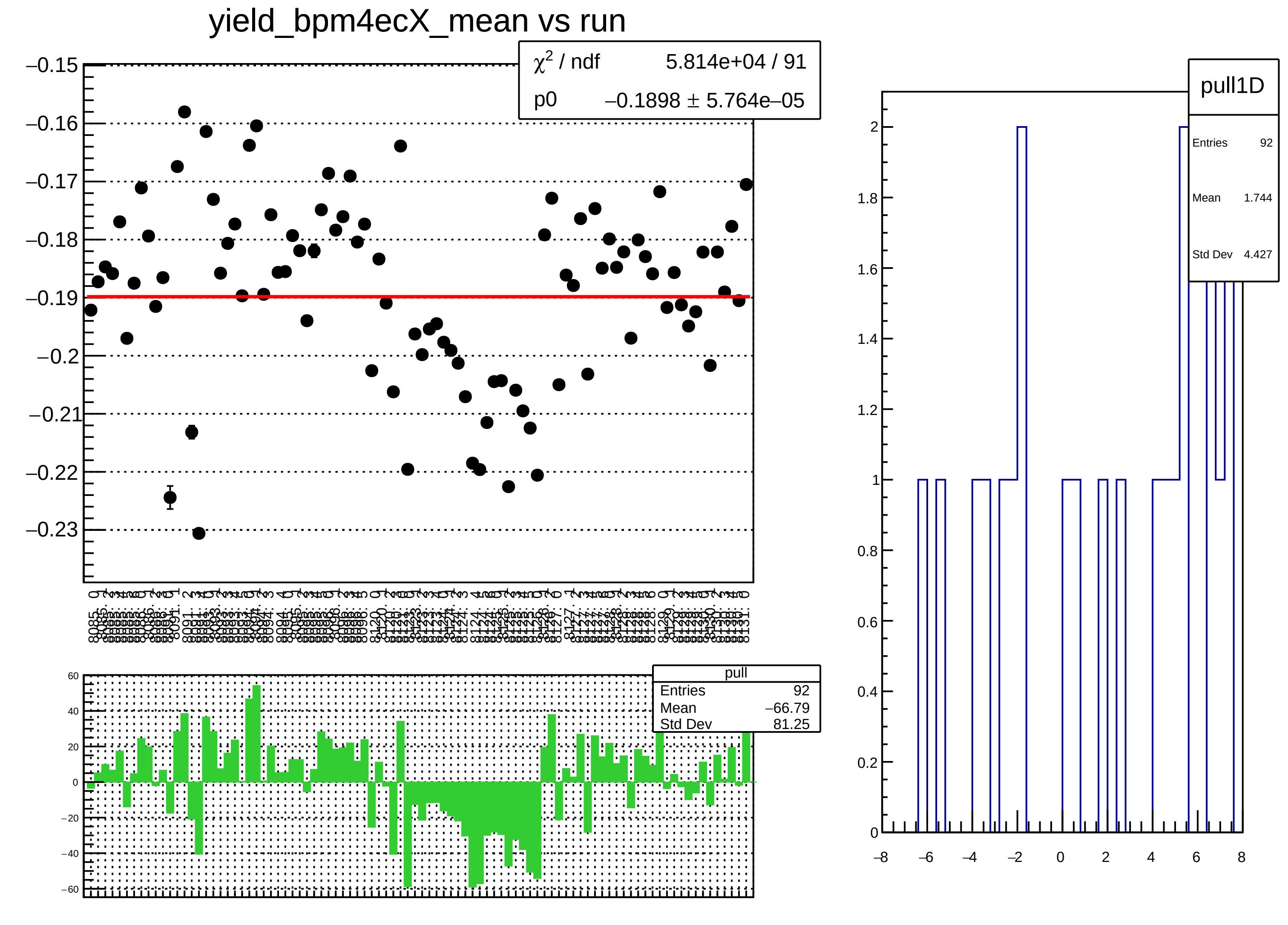


yield_bpm4acX_rms vs run
χ^2 / ndf 8.076e+04 / 91
p0 0.05536 ± 4.171e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

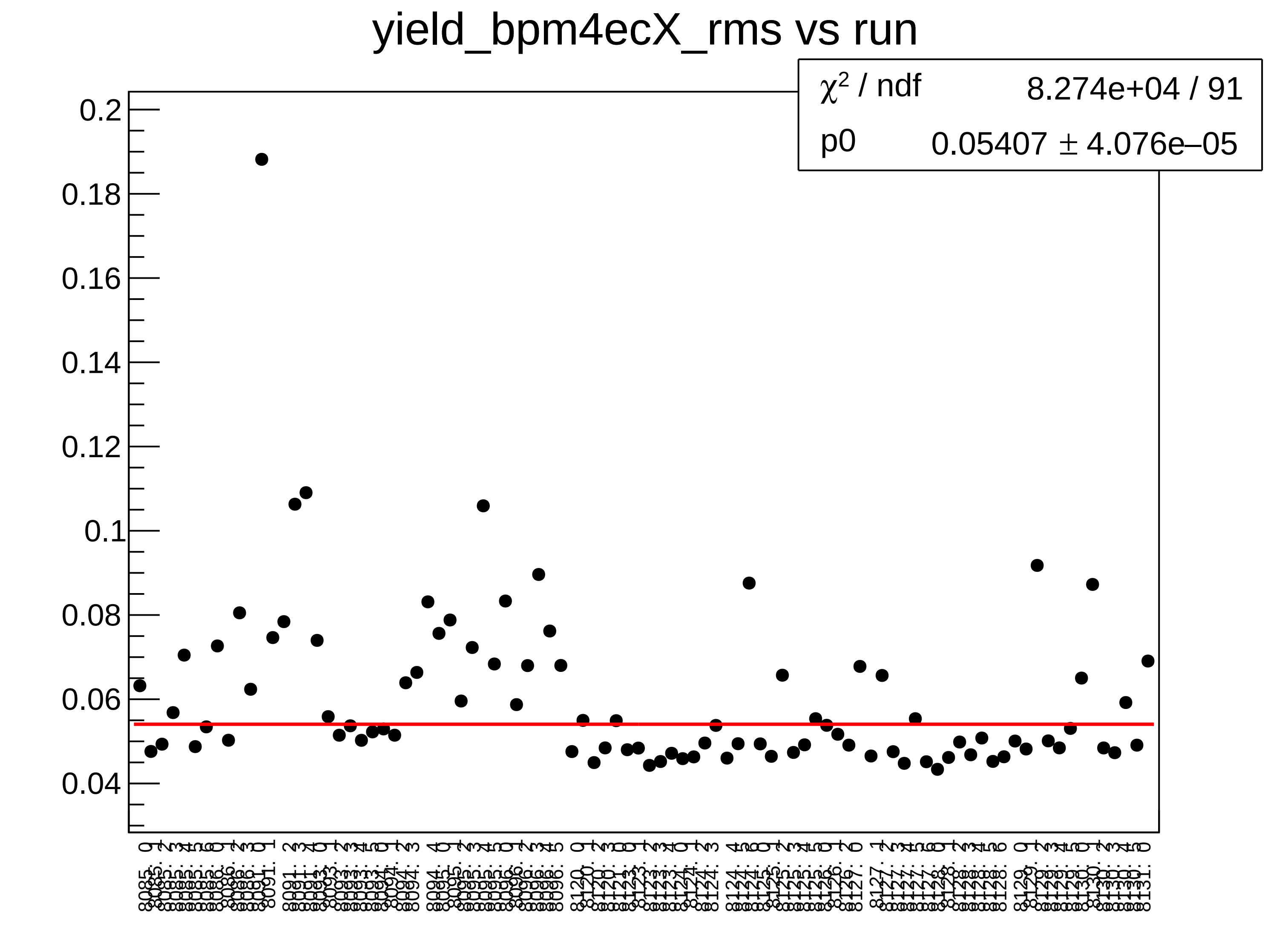


yield_bpm4acY_mean vs run
χ^2 / ndf 1.794e+05 / 91
p0 0.6307 ± 1.581e−05
pull
Entries 92
Mean −621.3
Std Dev 668.1
pull1D
Entries 92
Mean 1.924
Std Dev 4.228

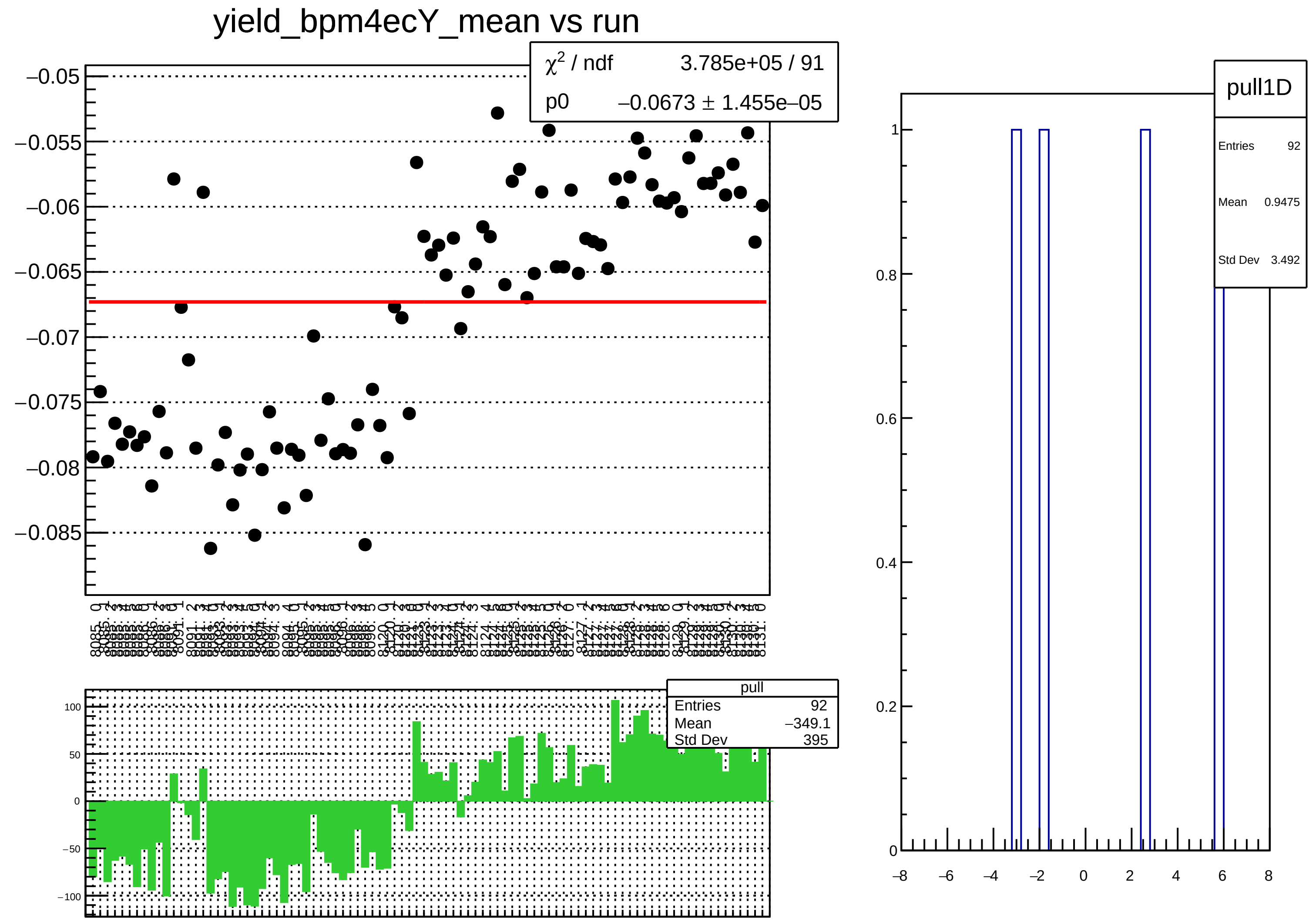

yield_bpm4acY_rms vs run
χ2 / ndf 7.575e+04 / 91
p0 0.01486 ± 1.118e−05
0.035
0.03
0.025
0.02
0.015
0.01

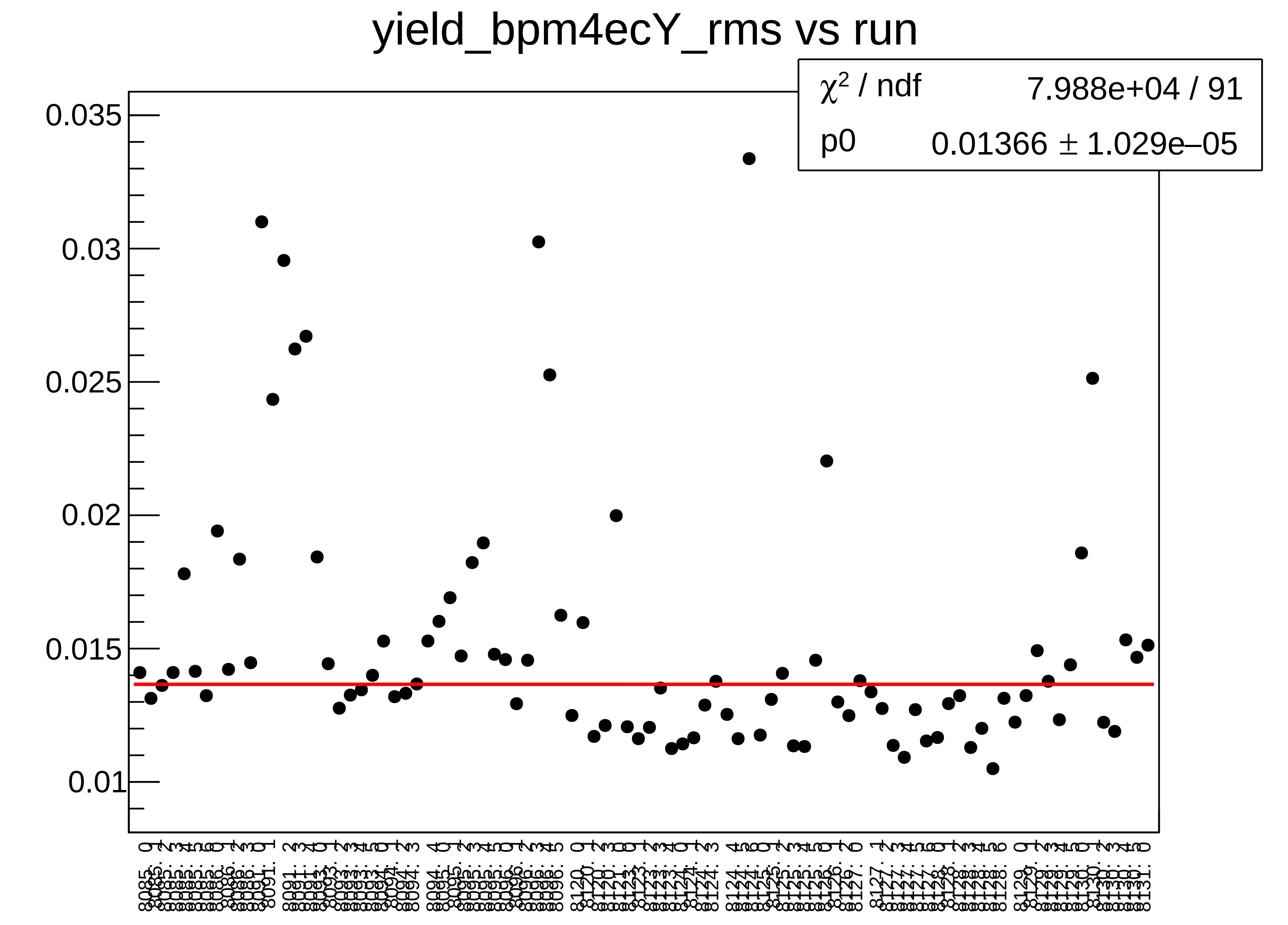


yield_bpm4ecX_mean vs run
χ^2 / ndf 5.814e+04 / 91
p0 −0.1898 ± 5.764e−05
pull
Entries 92
Mean −66.79
Std Dev 81.25
pull1D
Entries 92
Mean 1.744
Std Dev 4.427

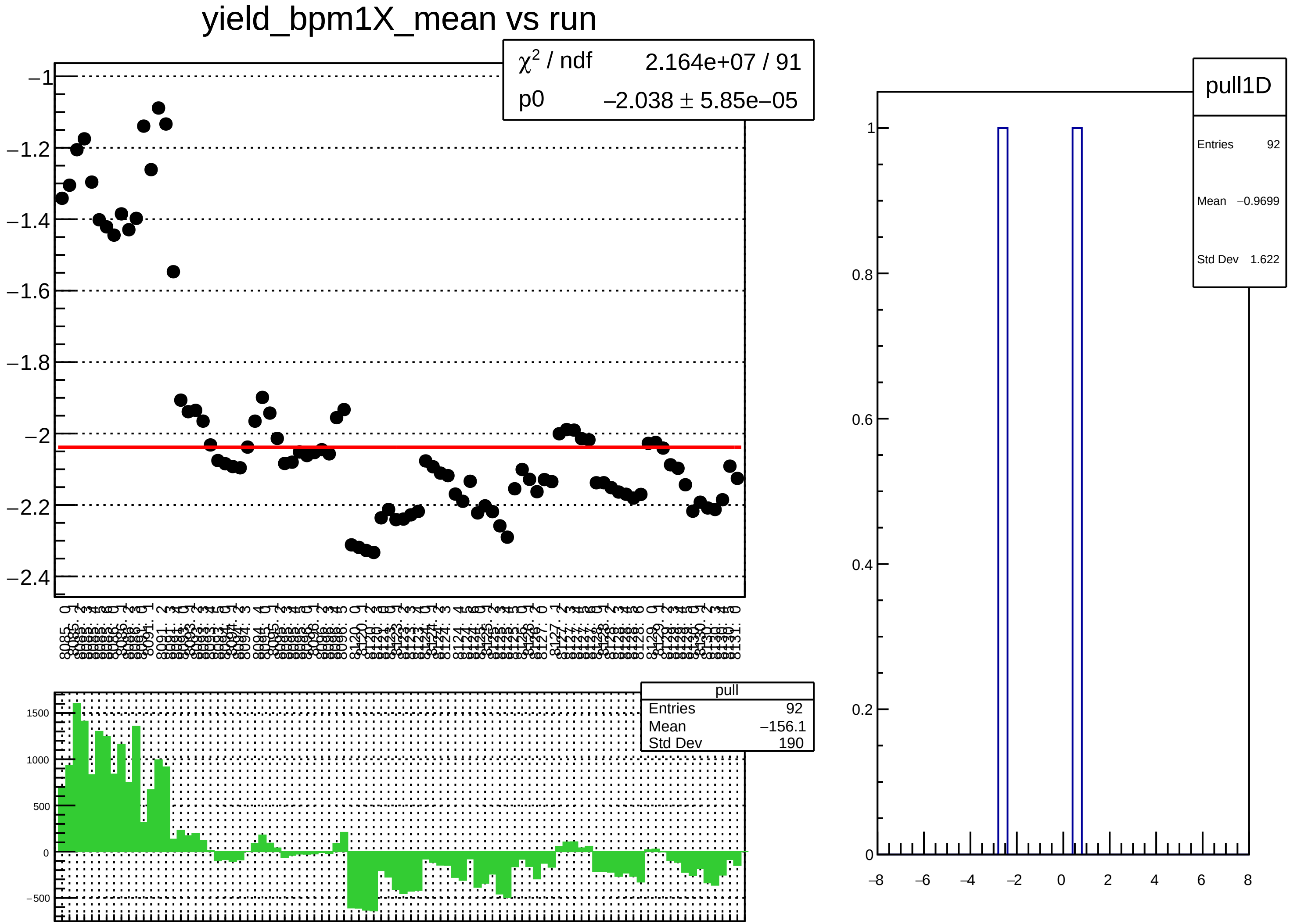


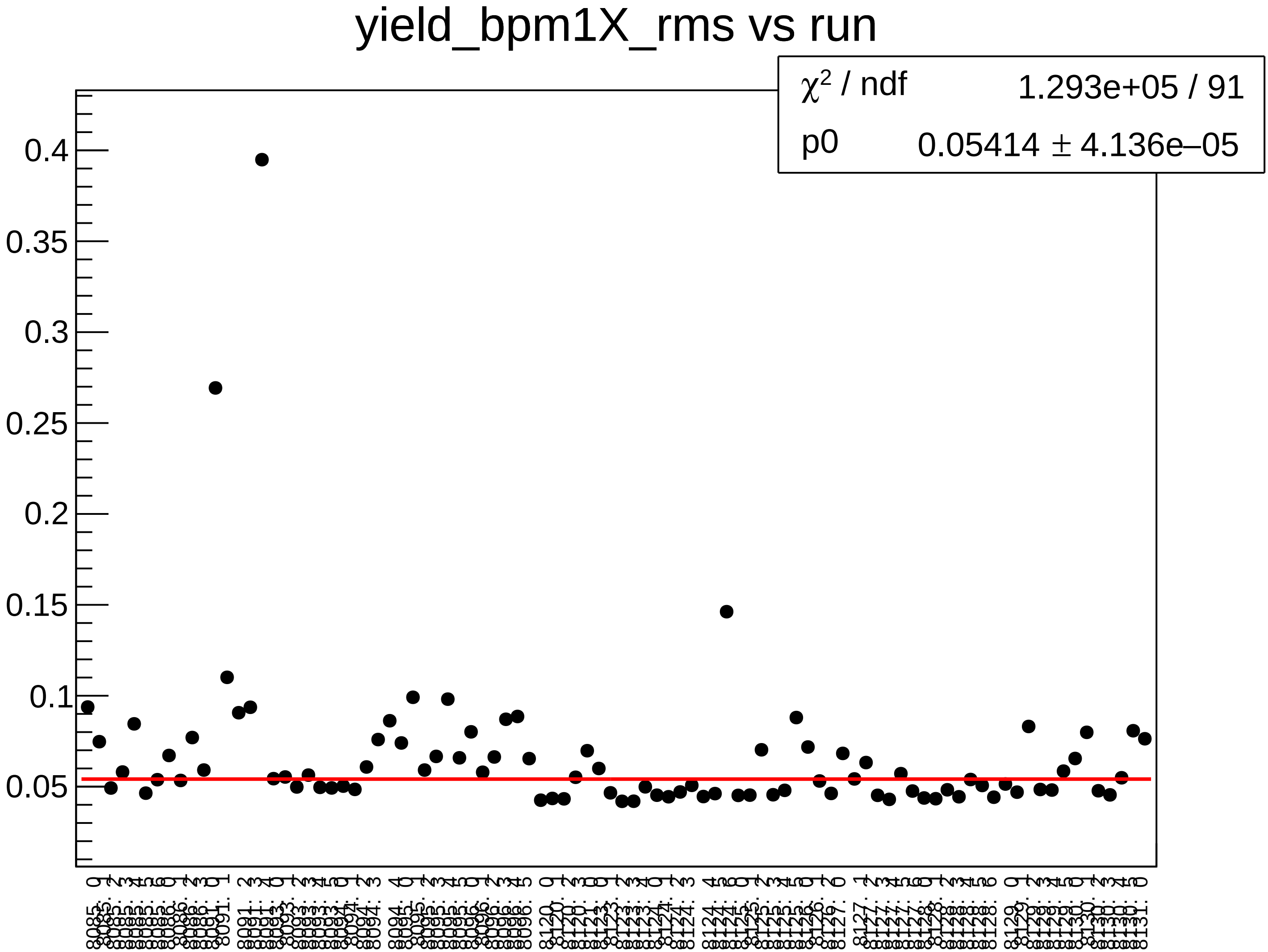
yield_bpm4ecX_rms vs run
χ^2 / ndf 8.274e+04 / 91
p0 0.05407 ± 4.076e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

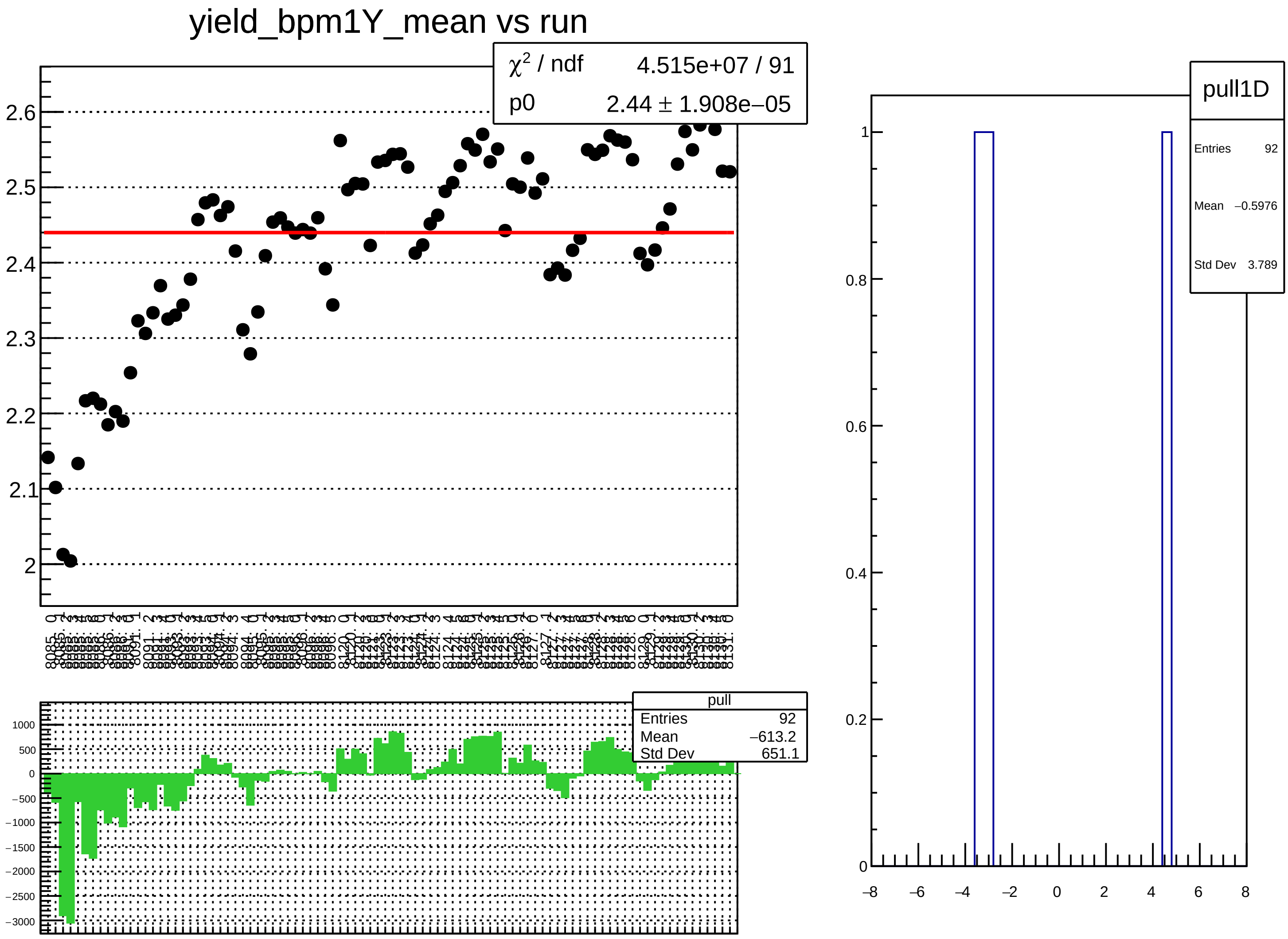

yield_bpm4ecY_mean vs run
χ2 / ndf 3.785e+05 / 91
p0 −0.0673 ± 1.455e−05
pull
Entries 92
Mean −349.1
Std Dev 395
pull1D
Entries 92
Mean 0.9475
Std Dev 3.492

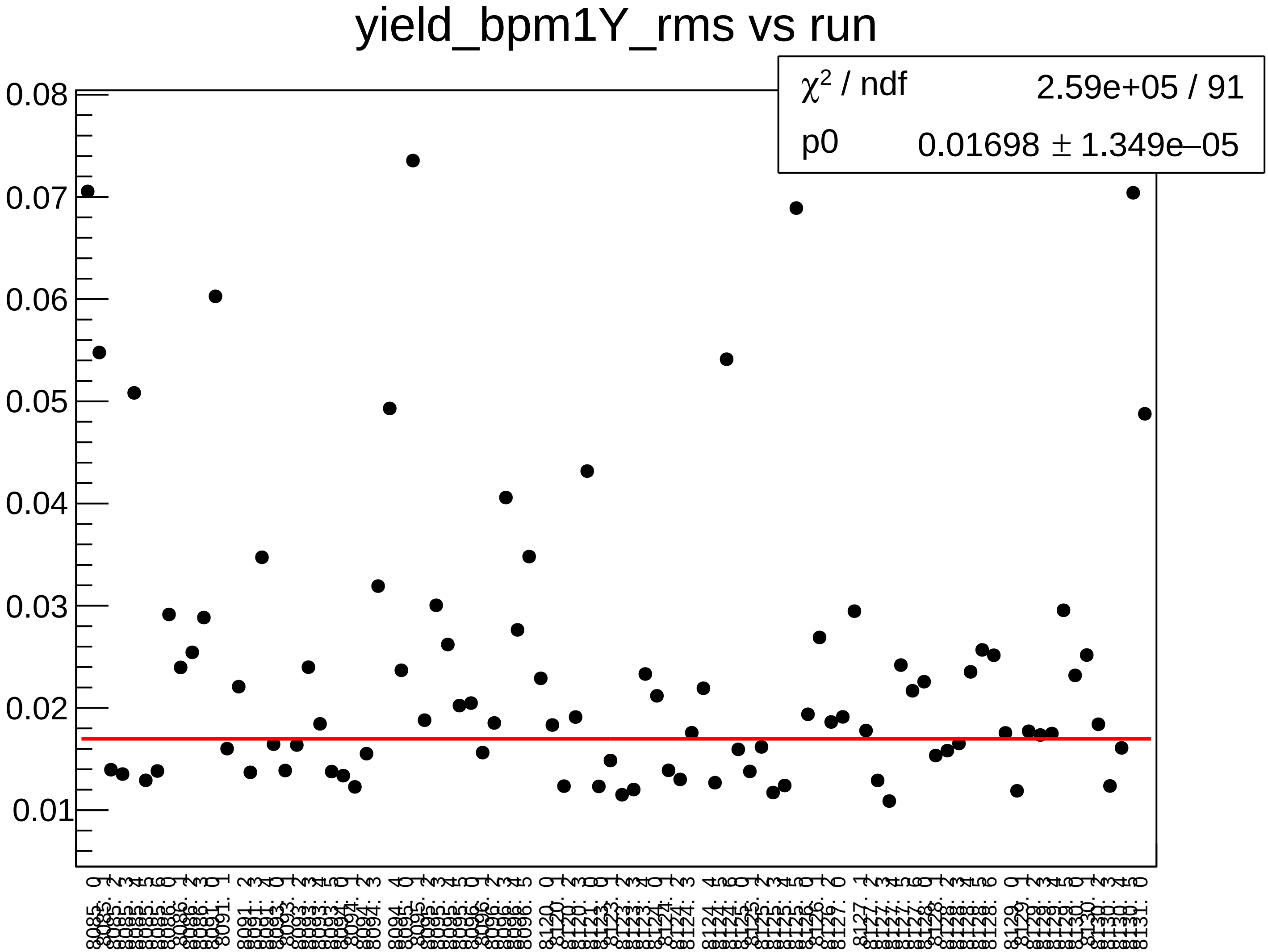


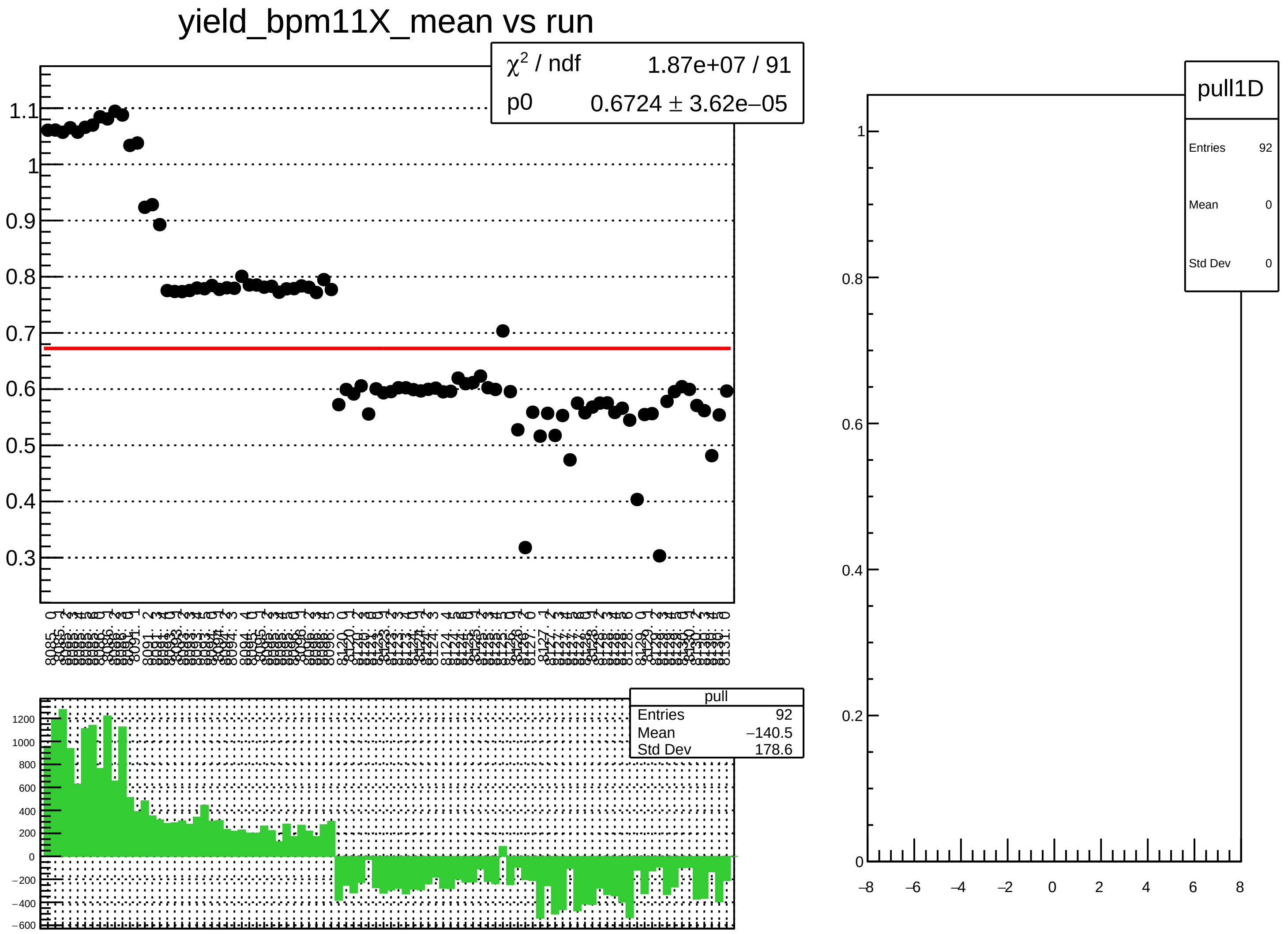
yield_bpm4ecY_rms vs run
χ^2 / ndf 7.988e+04 / 91
p0 0.01366 ± 1.029e−05
0.035
0.03
0.025
0.02
0.015
0.01


yield_bpm1X_mean vs run
χ^2 / ndf 2.164e+07 / 91
p0 −2.038 ± 5.85e−05
pull
Entries 92
Mean −156.1
Std Dev 190
pull1D
Entries 92
Mean −0.9699
Std Dev 1.622

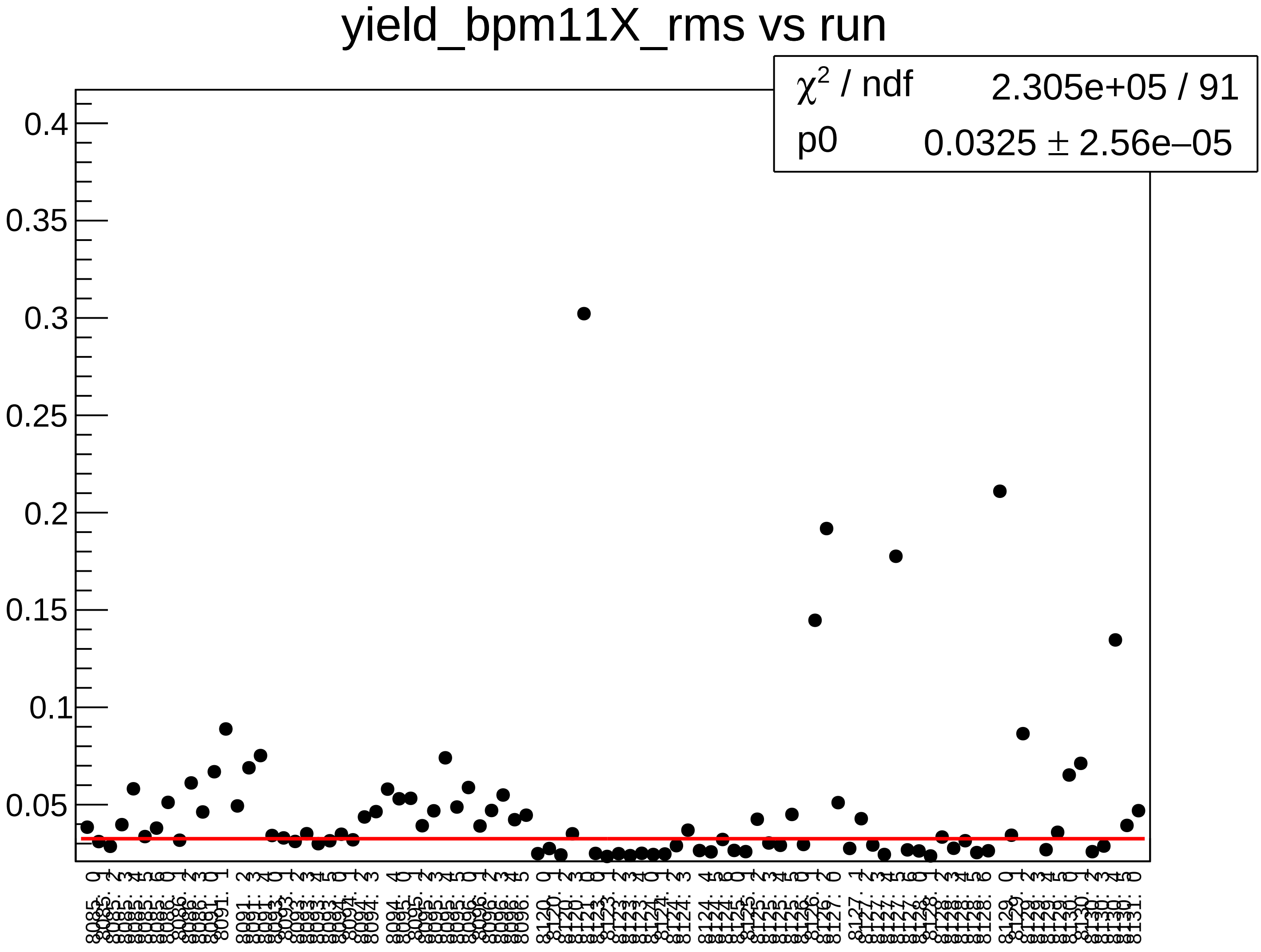

yield_bpm1X_rms vs run
χ2 / ndf 1.293e+05 / 91
p0 0.05414 ± 4.136e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

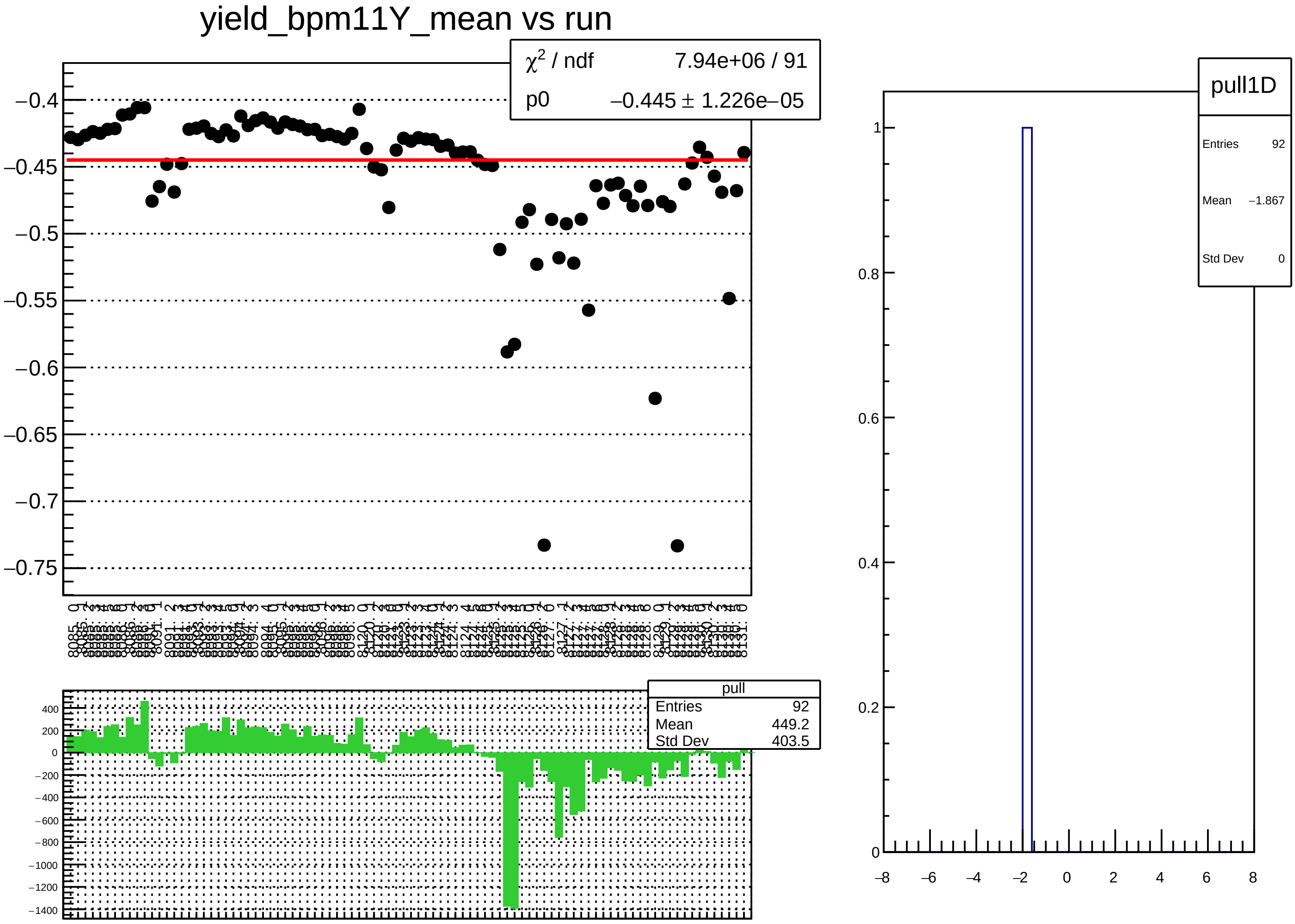

yield_bpm1Y_mean vs run
χ^2 / ndf 4.515e+07 / 91
p0 2.44 ± 1.908e−05
2.6
2.5
2.4
2.3
2.2
2.1
2
pull
Entries 92
Mean −613.2
Std Dev 651.1
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000
pull1D
Entries 92
Mean −0.5976
Std Dev 3.789
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

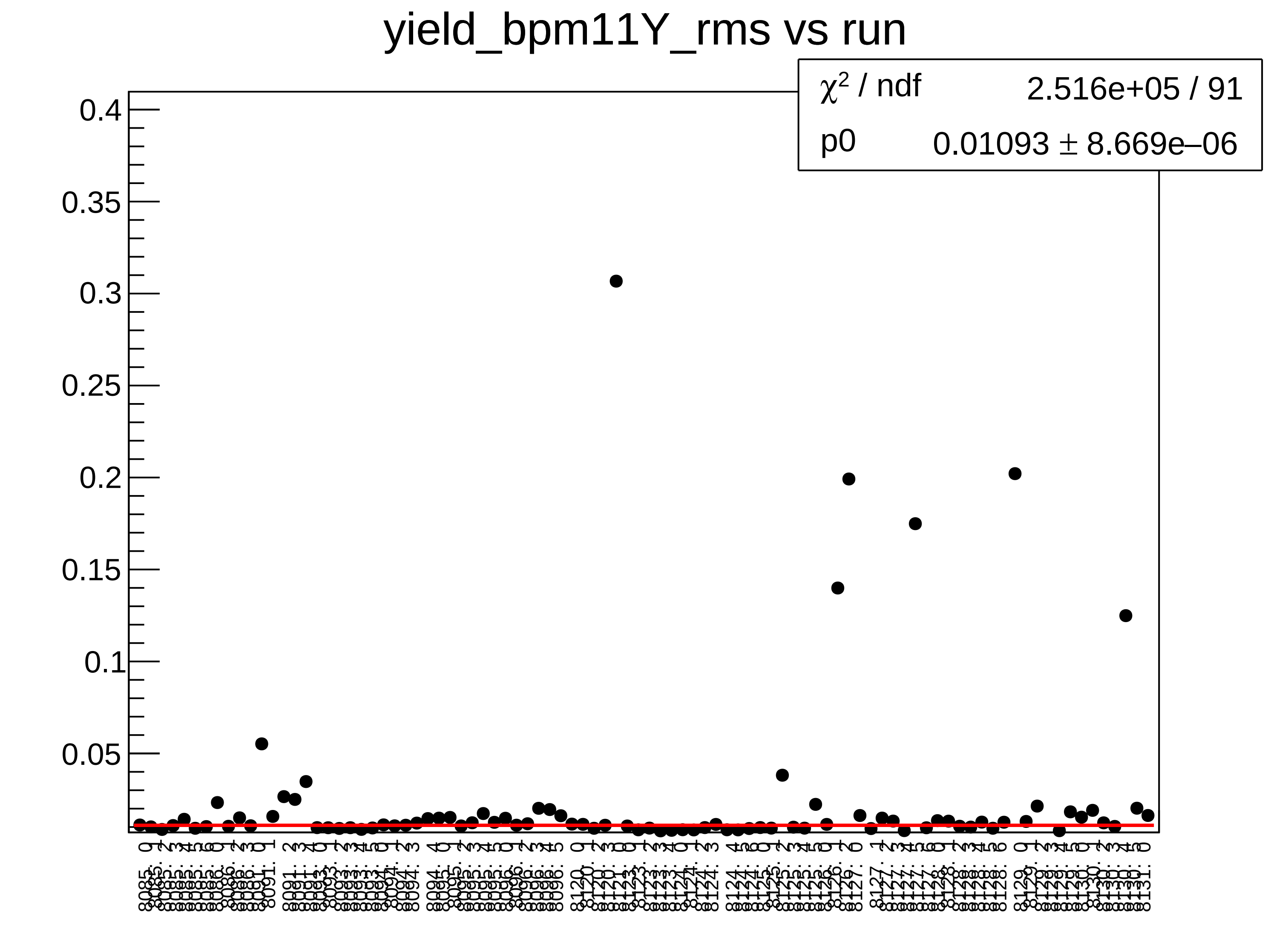

yield_bpm1Y_rms vs run
χ^2 / ndf 2.59e+05 / 91
p0 0.01698 ± 1.349e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01



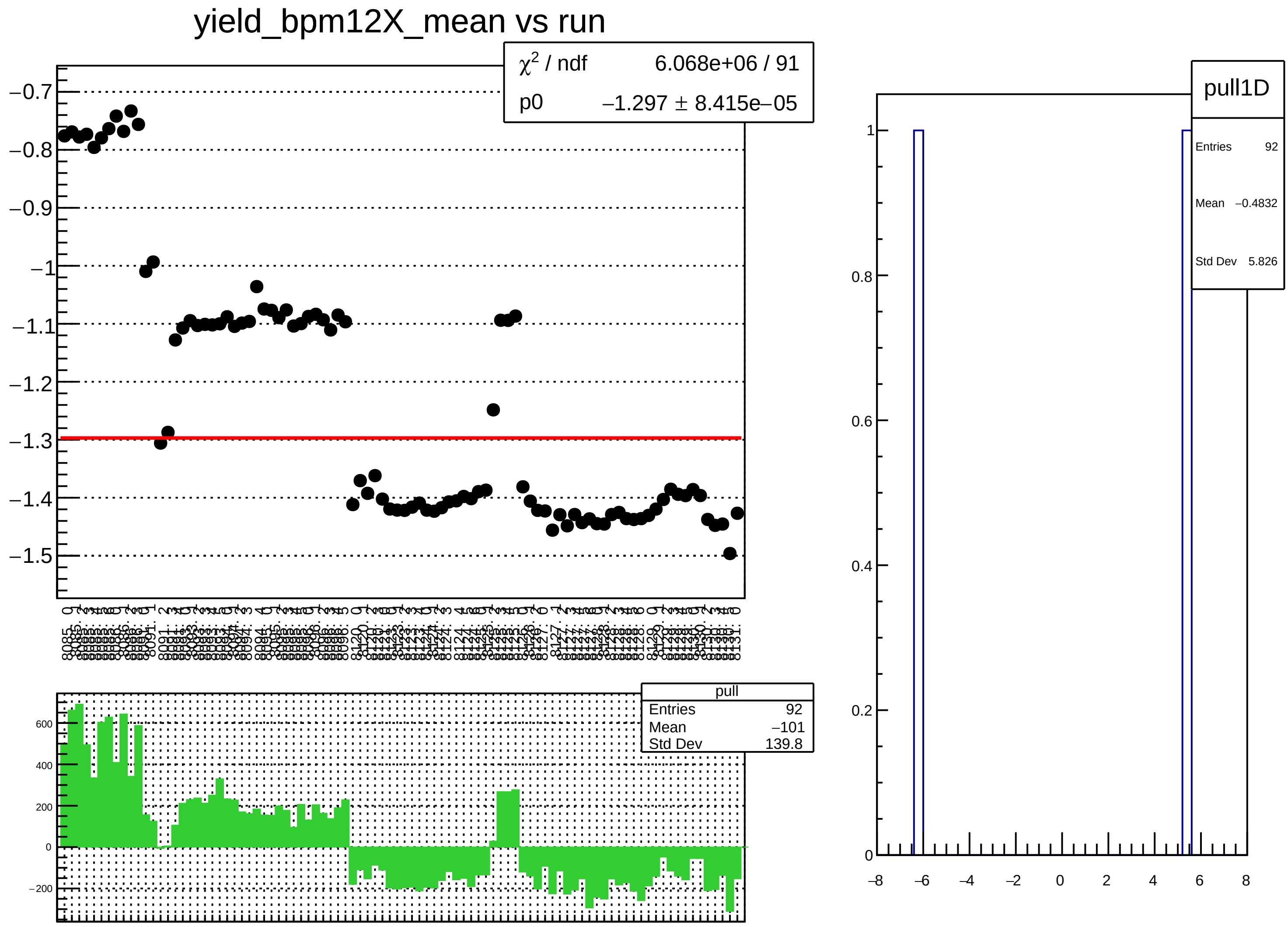
yield_bpm11X_mean vs run
χ^2 / ndf 1.87e+07 / 91
p0 0.6724 ± 3.62e−05
pull
Entries 92
Mean −140.5
Std Dev 178.6
pull1D
Entries 92
Mean 0
Std Dev 0

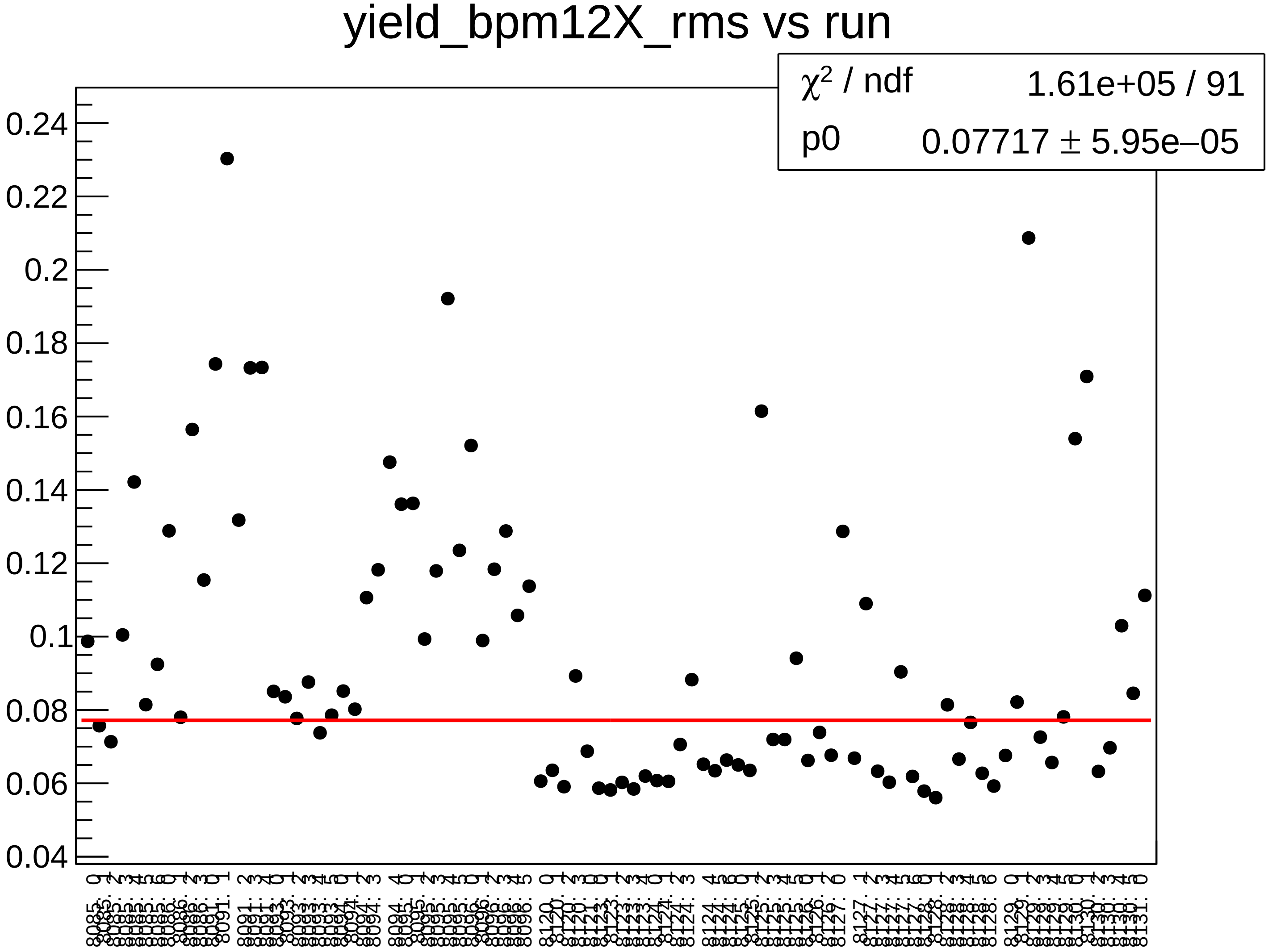

yield_bpm11X_rms vs run
χ^2 / ndf 2.305e+05 / 91
p0 0.0325 ± 2.56e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05


yield_bpm11Y_mean vs run
χ2 / ndf 7.94e+06 / 91
p0 −0.445 ± 1.226e−05
pull
Entries 92
Mean 449.2
Std Dev 403.5
pull1D
Entries 92
Mean −1.867
Std Dev 0

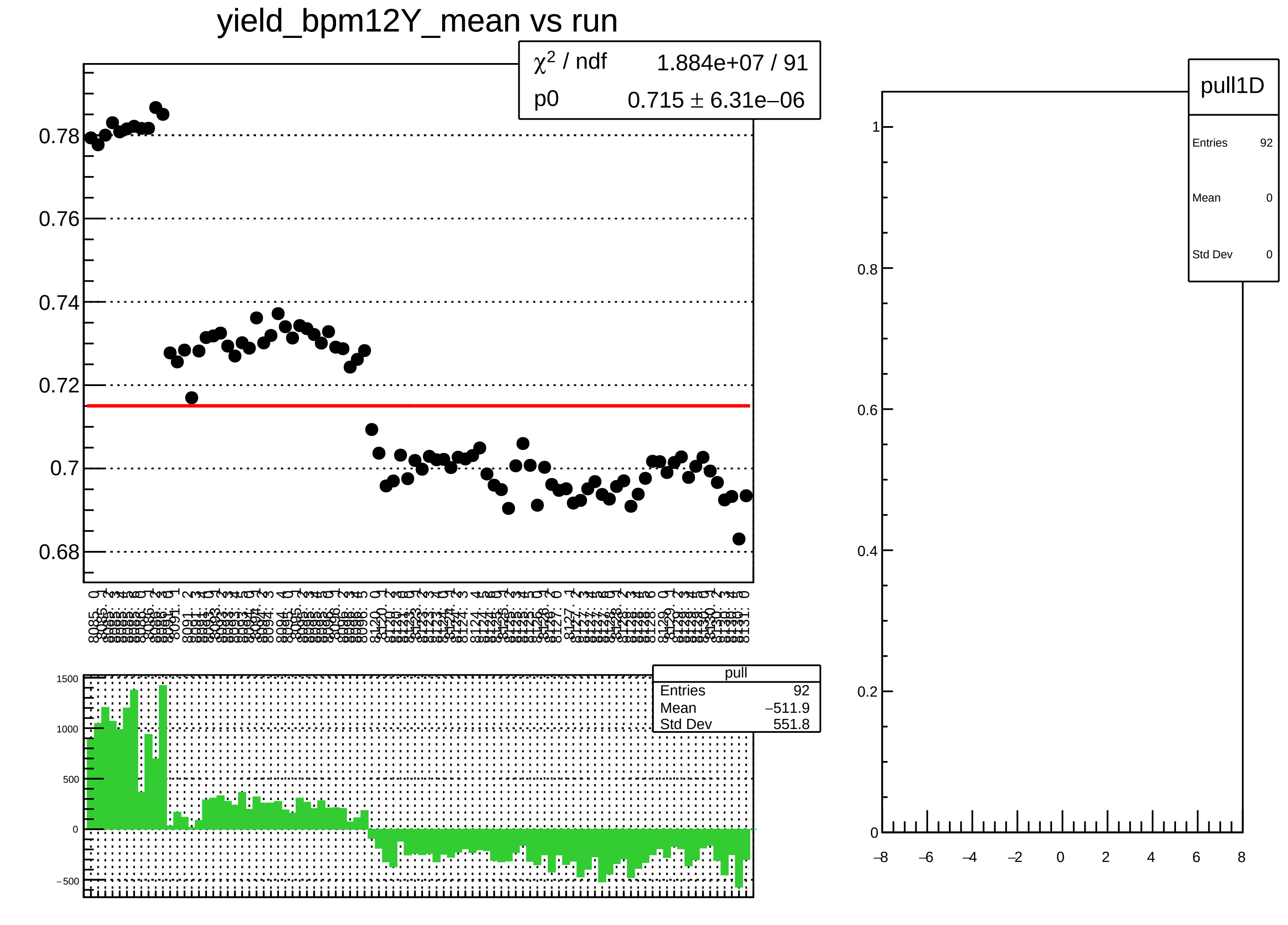


yield_bpm11Y_rms vs run
χ^2 / ndf 2.516e+05 / 91
p0 0.01093 ± 8.669e−06
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

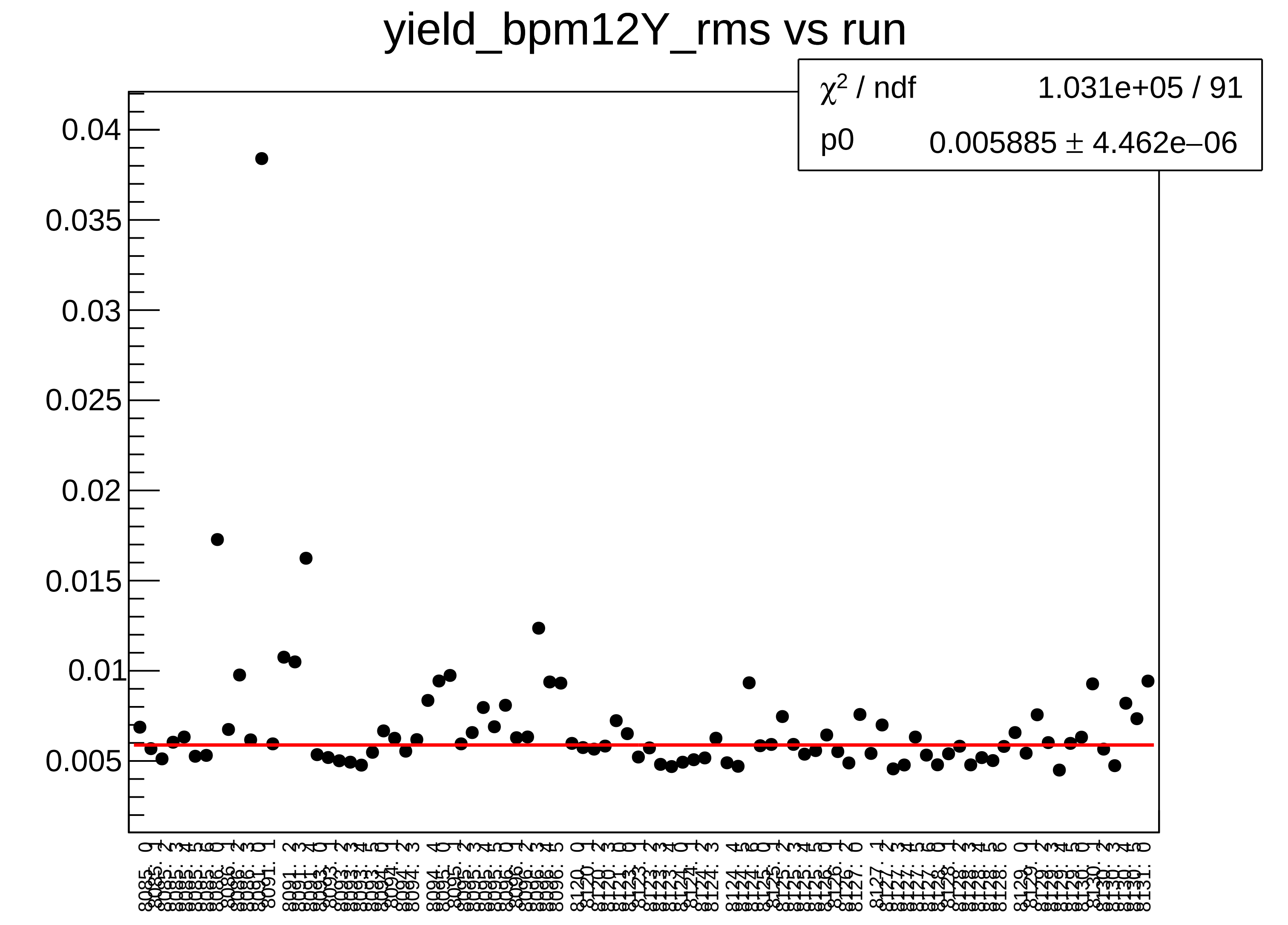

yield_bpm12X_mean vs run
χ2 / ndf 6.068e+06 / 91
p0 −1.297 ± 8.415e−05
pull
Entries 92
Mean −101
Std Dev 139.8
pull1D
Entries 92
Mean −0.4832
Std Dev 5.826



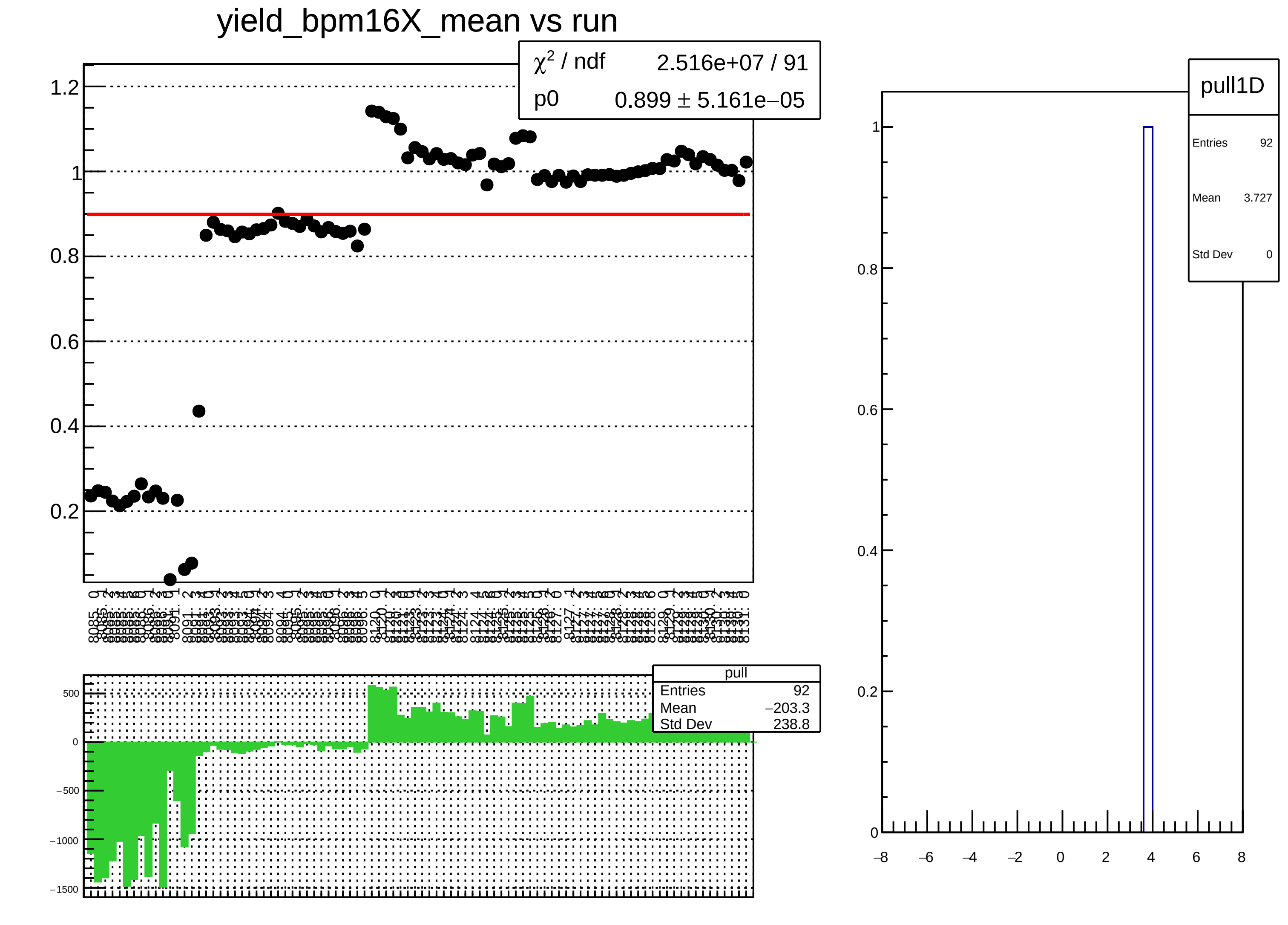
yield_bpm12X_rms vs run
χ^2 / ndf 1.61e+05 / 91
p0 0.07717 ± 5.95e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

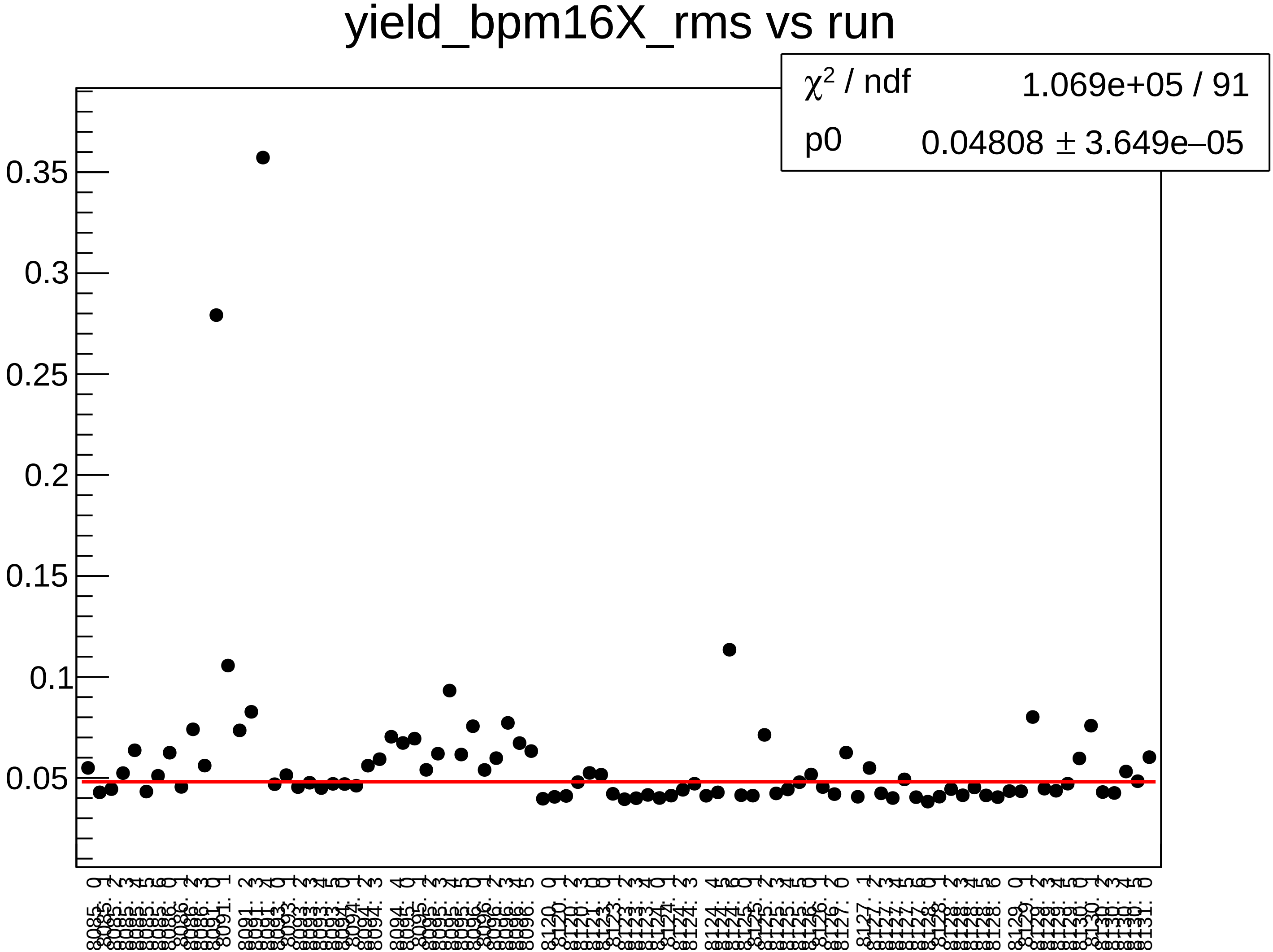


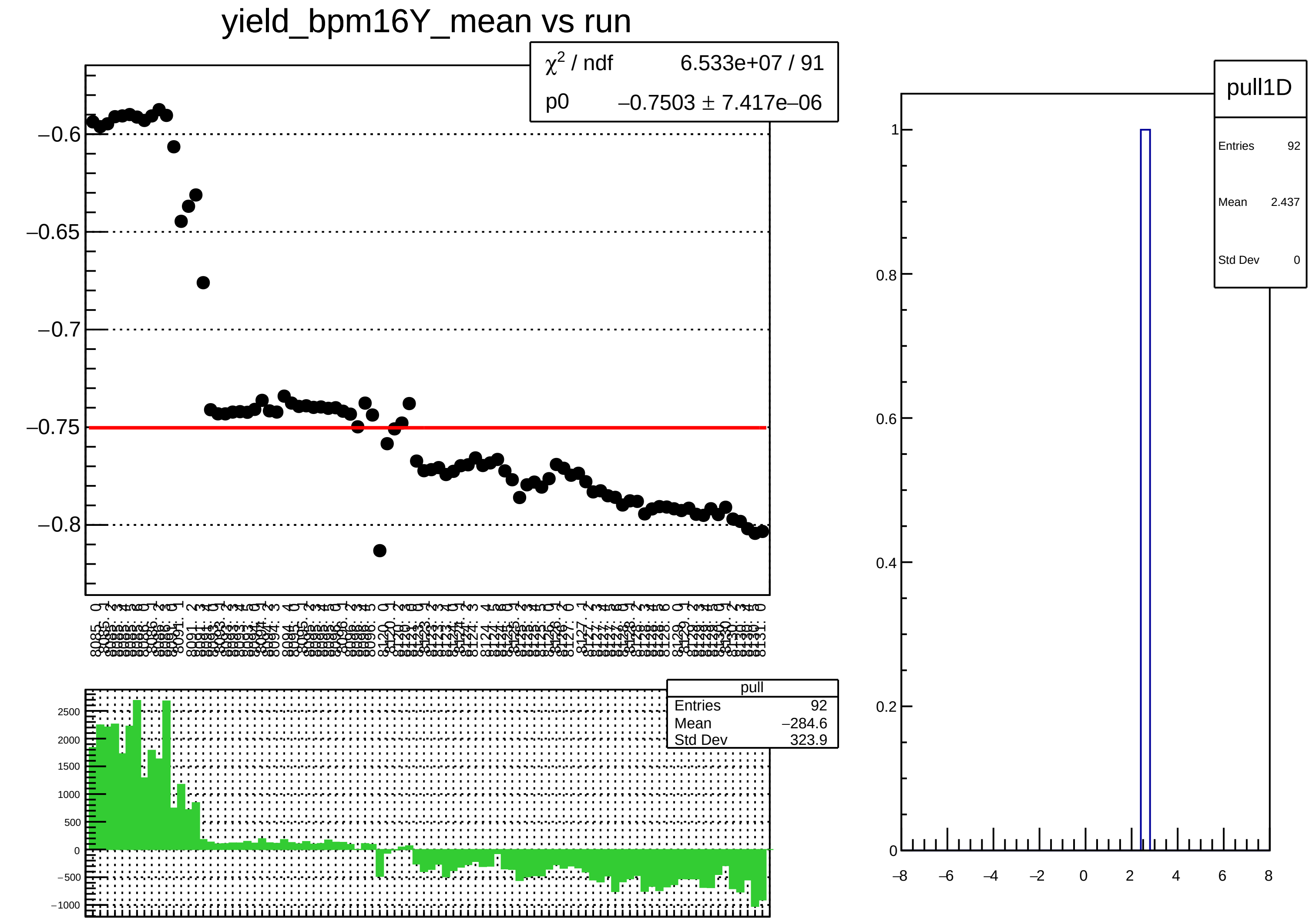
yield_bpm12Y_mean vs run
χ^2 / ndf 1.884e+07 / 91
p0 0.715 ± 6.31e−06
pull
Entries 92
Mean −511.9
Std Dev 551.8
pull1D
Entries 92
Mean 0
Std Dev 0



yield_bpm12Y_rms vs run
χ^2 / ndf 1.031e+05 / 91
p0 0.005885 ± 4.462e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

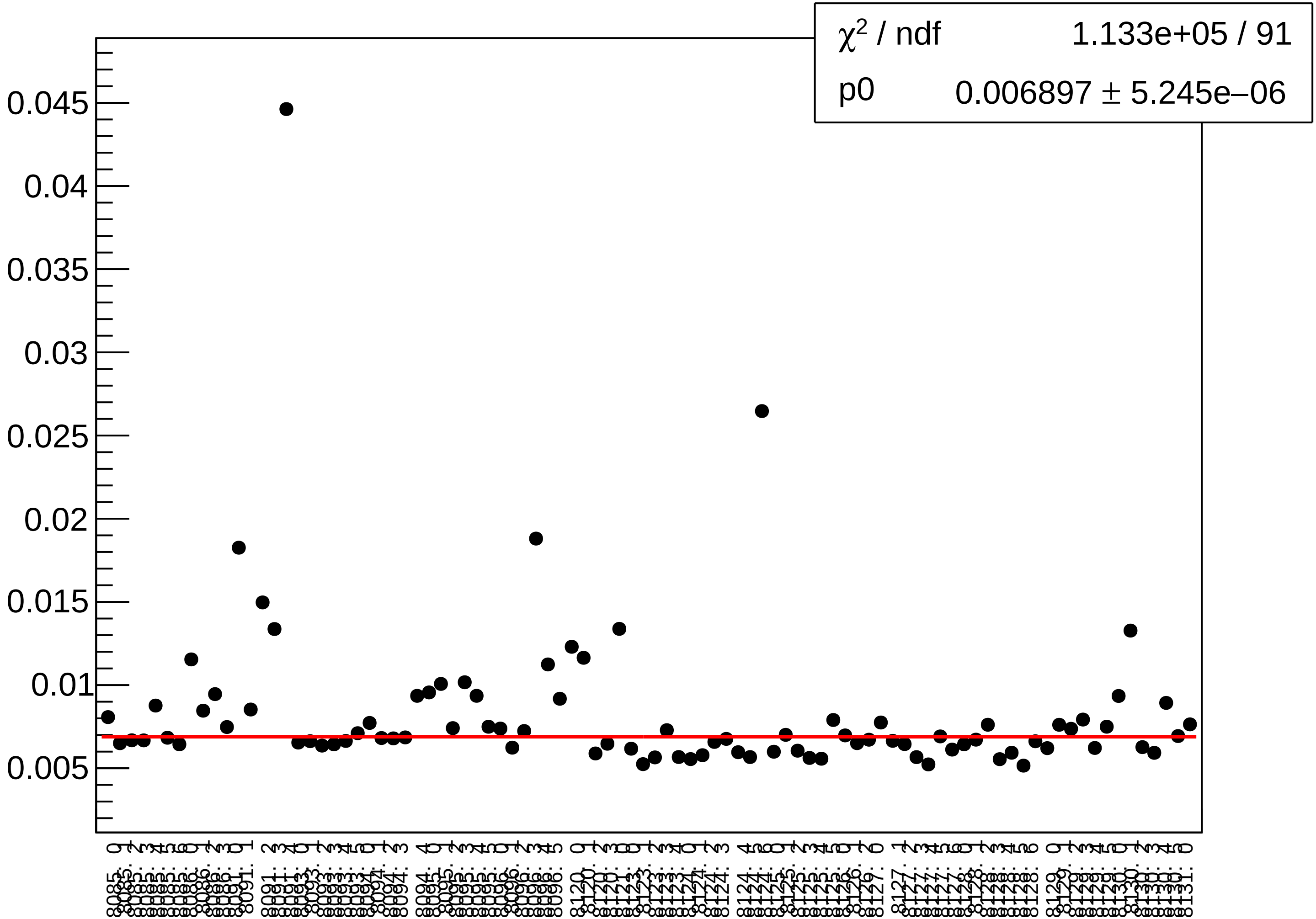

yield_bpm16X_mean vs run
χ^2 / ndf 2.516e+07 / 91
p0 0.899 ± 5.161e−05
1.2
1
0.8
0.6
0.4
0.2
pull
Entries 92
Mean −203.3
Std Dev 238.8
500
0
−500
−1000
−1500
pull1D
Entries 92
Mean 3.727
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

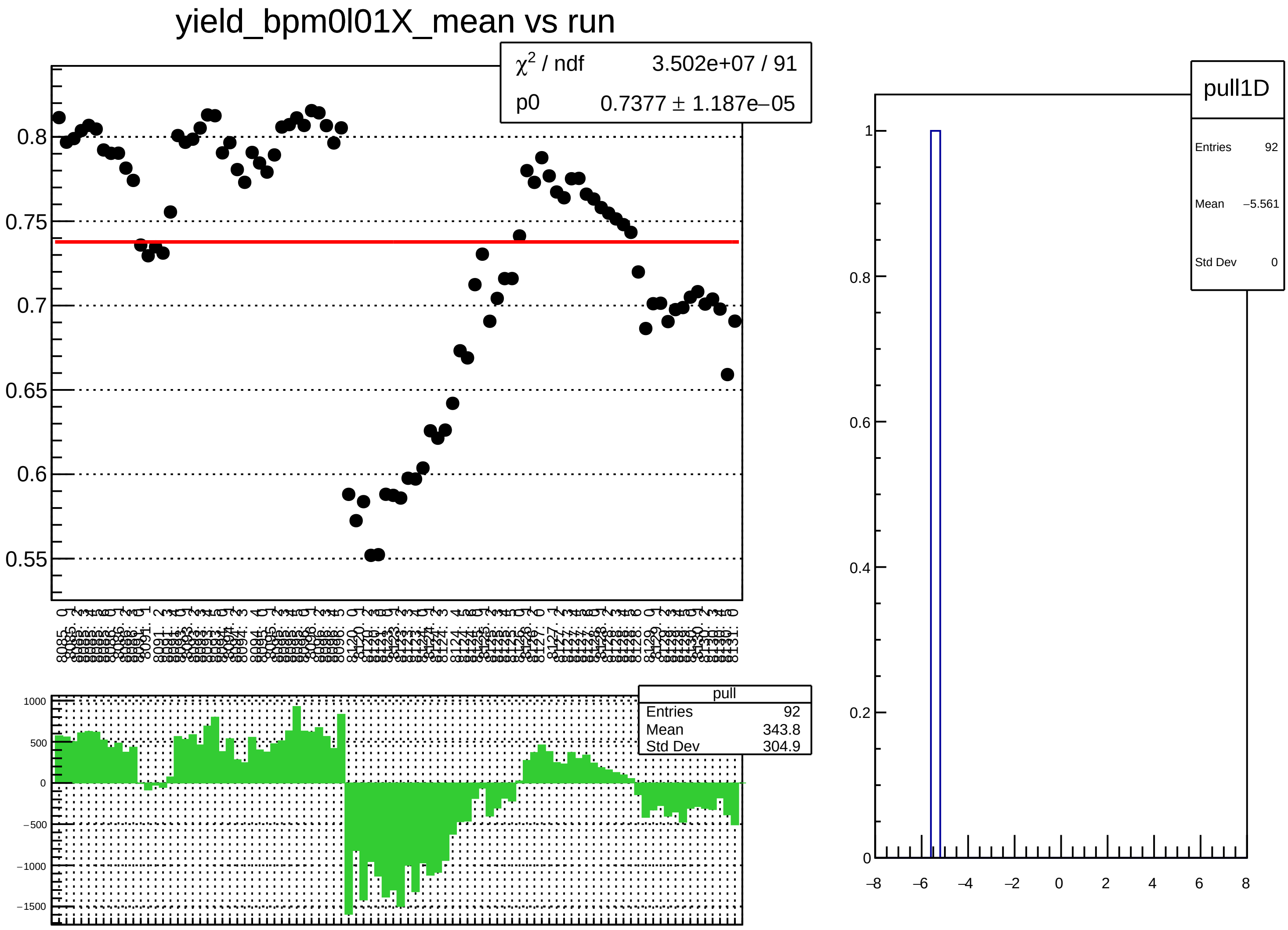

yield_bpm16X_rms vs run
χ^2 / ndf 1.069e+05 / 91
p0 0.04808 ± 3.649e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05



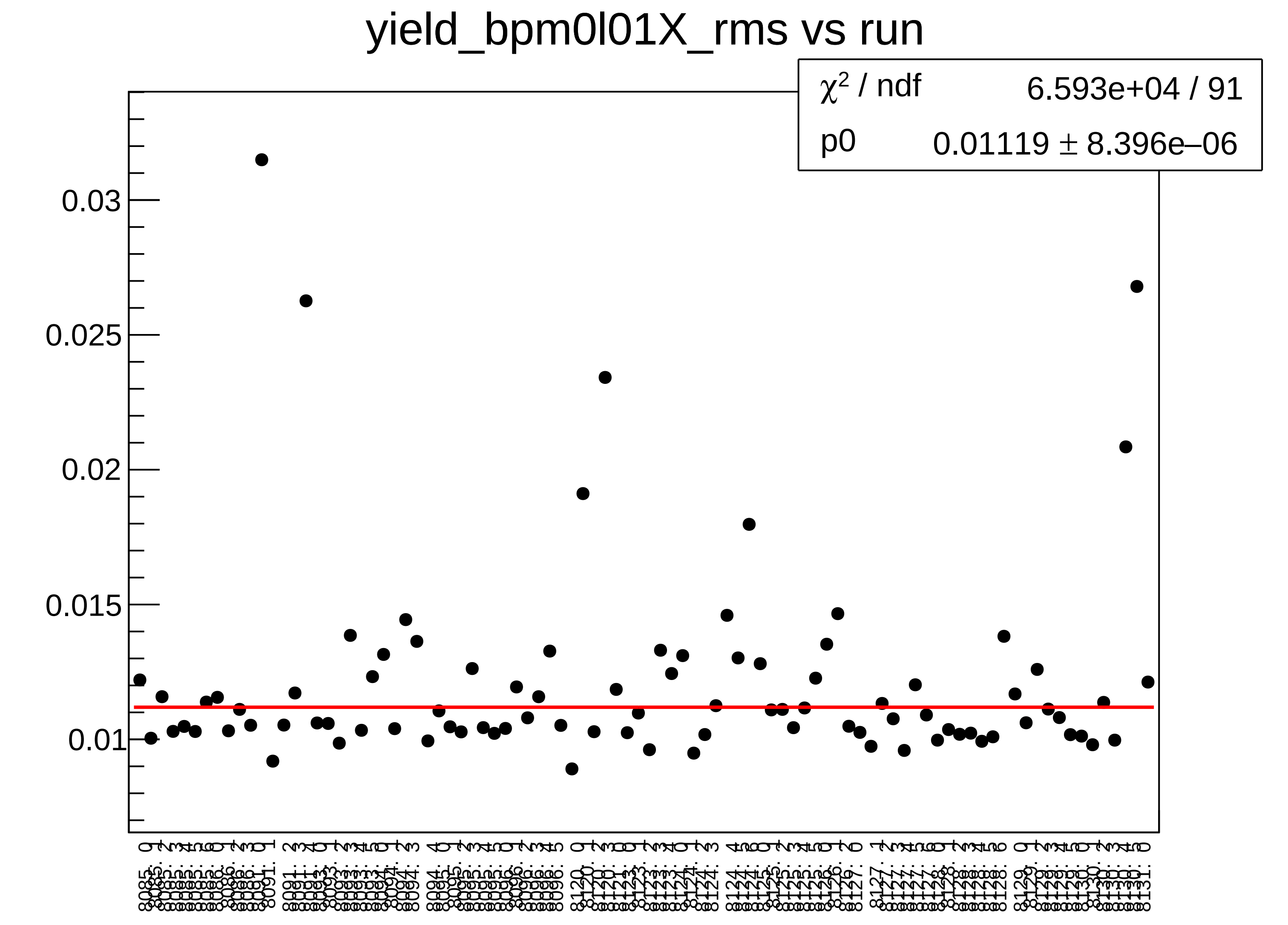
yield_bpm16Y_mean vs run
χ^2 / ndf 6.533e+07 / 91
p0 −0.7503 ± 7.417e−06
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 92
Mean −284.6
Std Dev 323.9
2500
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 92
Mean 2.437
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

yield_bpm16Y_rms vs run

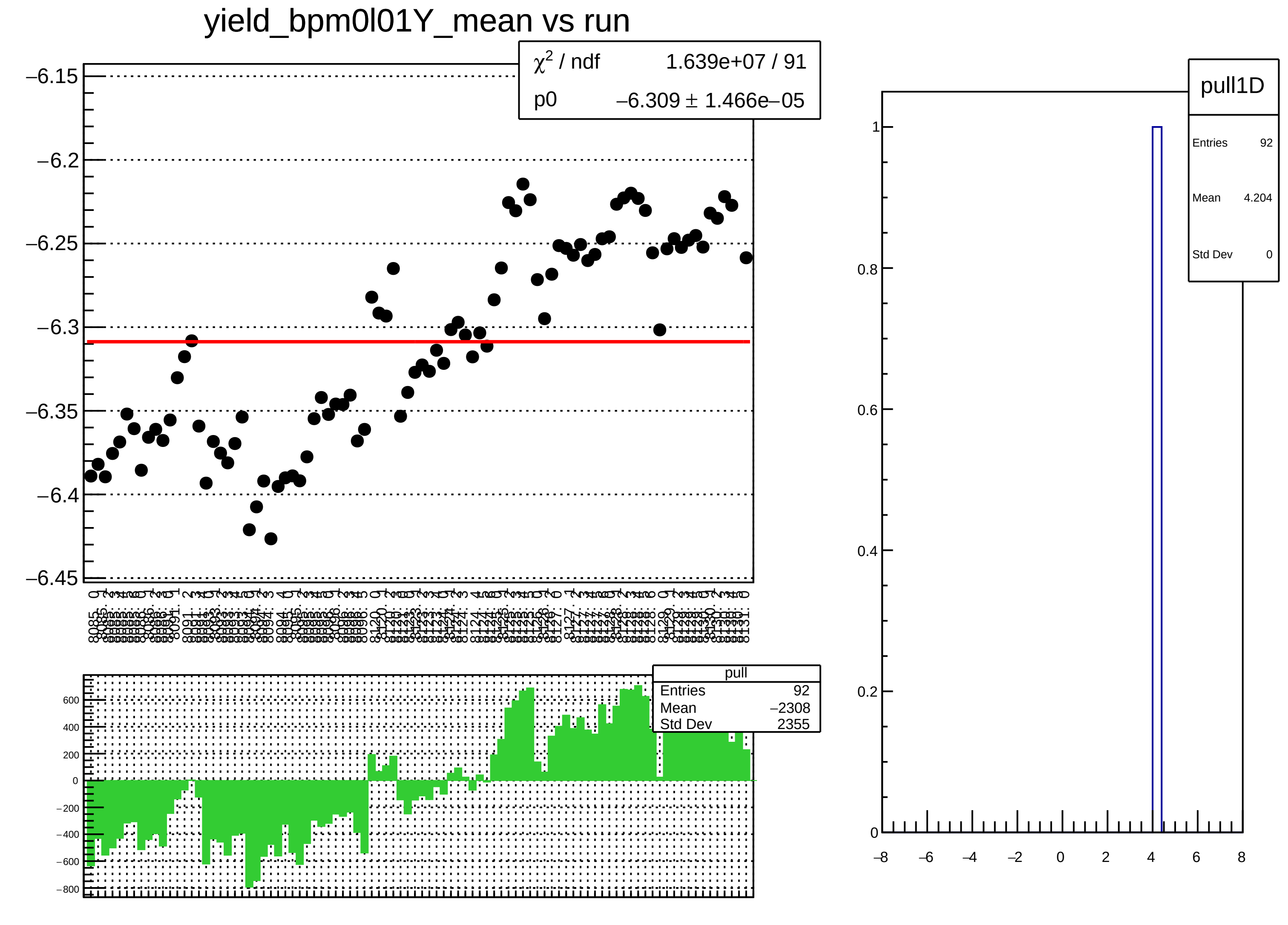




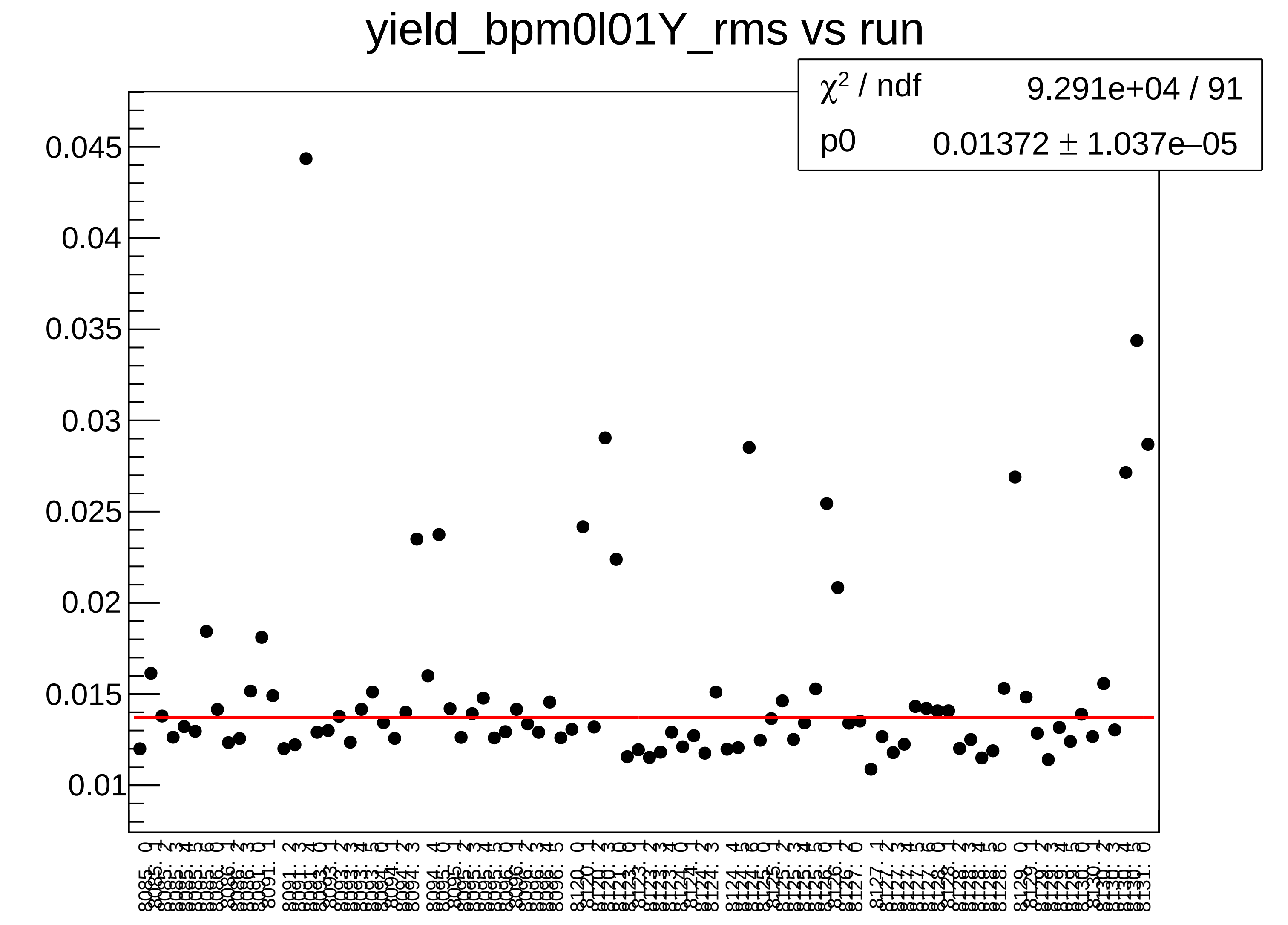
yield_bpm0l01X_mean vs run
χ^2 / ndf 3.502e+07 / 91
p0 0.7377 ± 1.187e−05
0.8
0.75
0.7
0.65
0.6
0.55
pull
Entries 92
Mean 343.8
Std Dev 304.9
1000
500
0
−500
−1000
−1500
pull1D
Entries 92
Mean −5.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

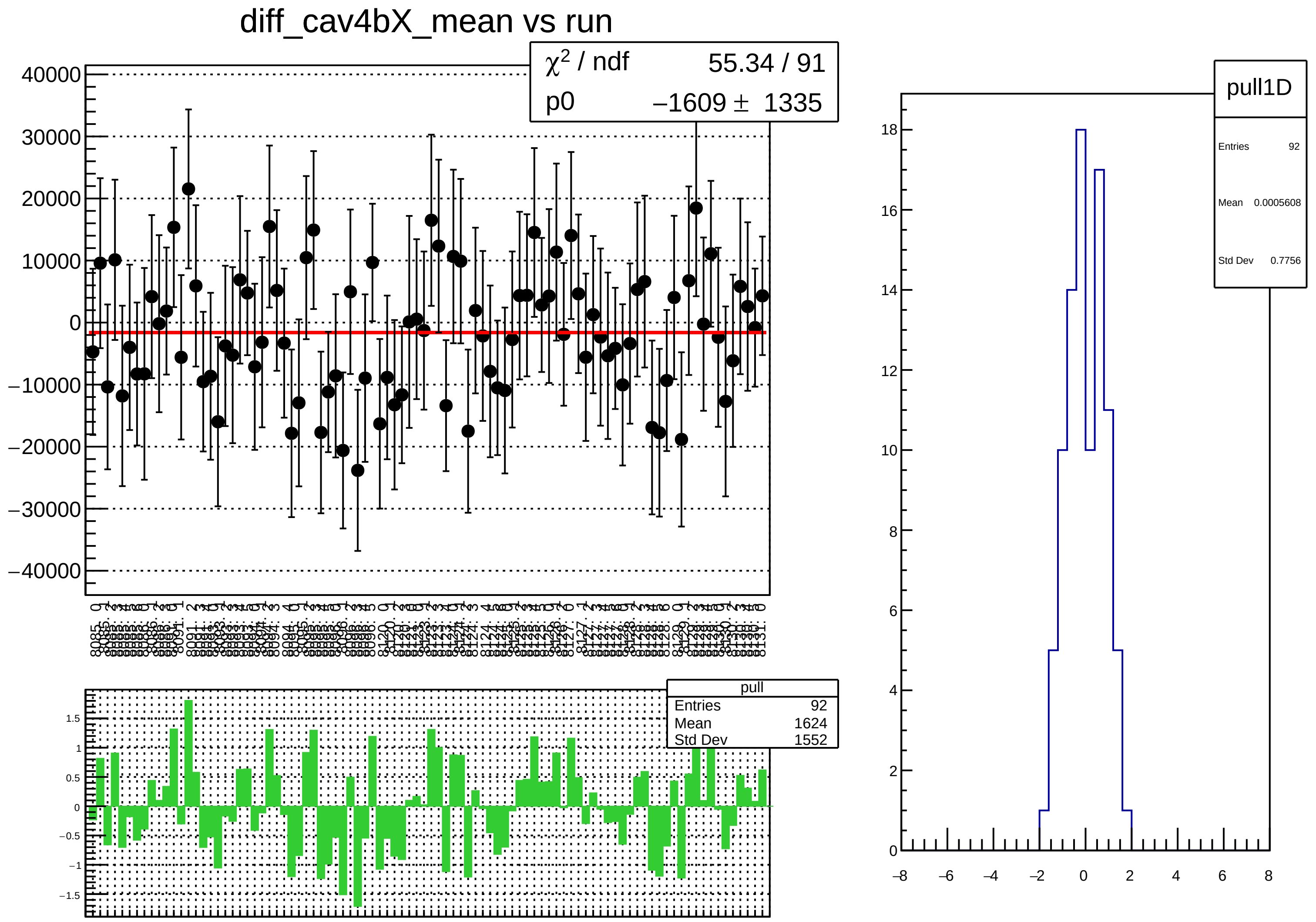


yield_bpm0l01X_rms vs run
χ^2 / ndf 6.593e+04 / 91
p0 0.01119 ± 8.396e−06
0.03
0.025
0.02
0.015
0.01

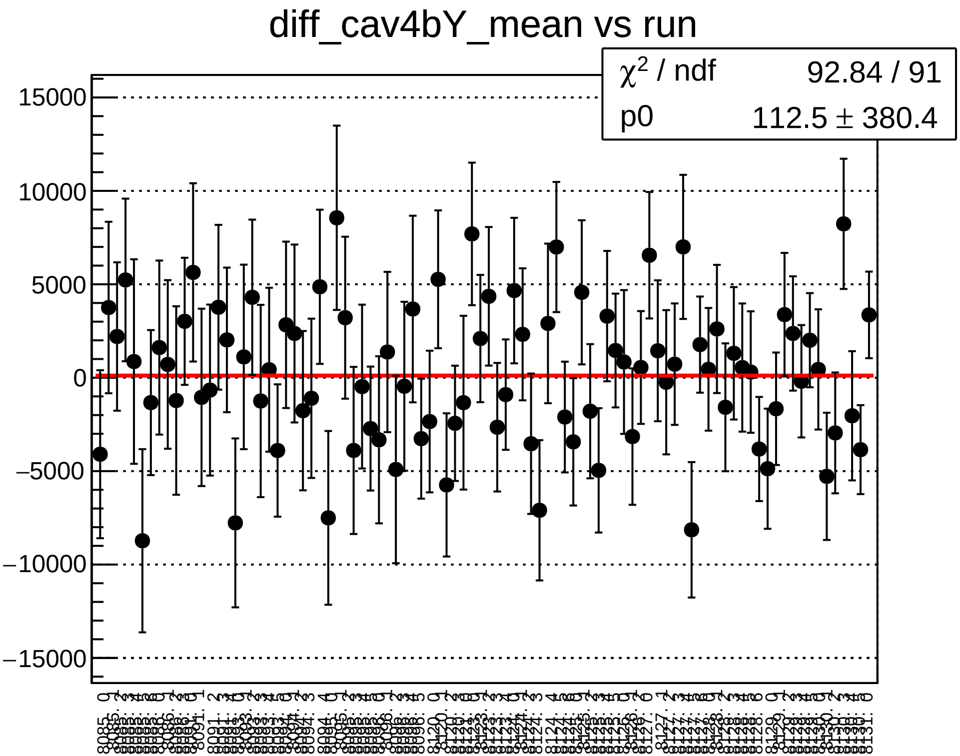


yield_bpm0l01Y_mean vs run
χ^2 / ndf 1.639e+07 / 91
p0 −6.309 ± 1.466e−05
−6.15
−6.2
−6.25
−6.3
−6.35
−6.4
−6.45
pull
Entries 92
Mean −2308
Std Dev 2355
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 92
Mean 4.204
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

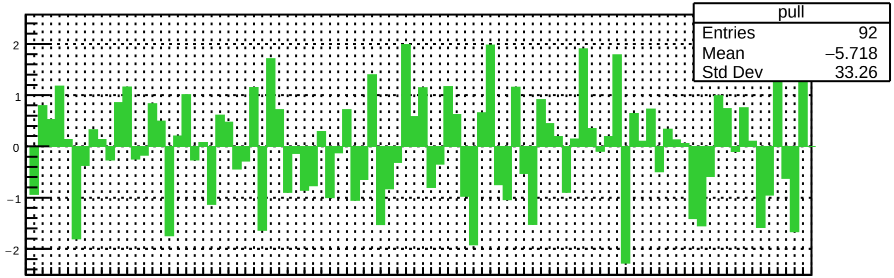

yield_bpm0l01Y_rms vs run
χ^2 / ndf 9.291e+04 / 91
p0 0.01372 ± 1.037e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01



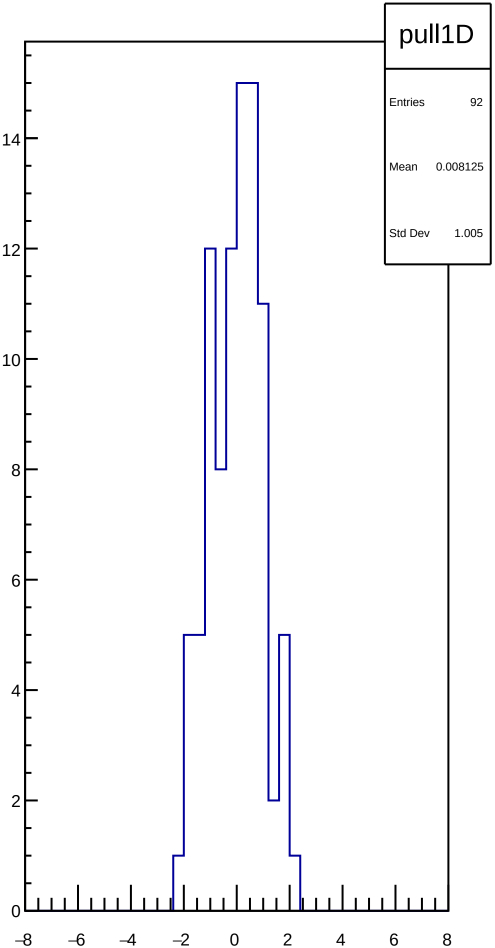
diff_cav4bX_mean vs run
χ^2 / ndf 55.34 / 91
p0 −1609 ± 1335
pull
Entries 92
Mean 1624
Std Dev 1552
pull1D
Entries 92
Mean 0.0005608
Std Dev 0.7756



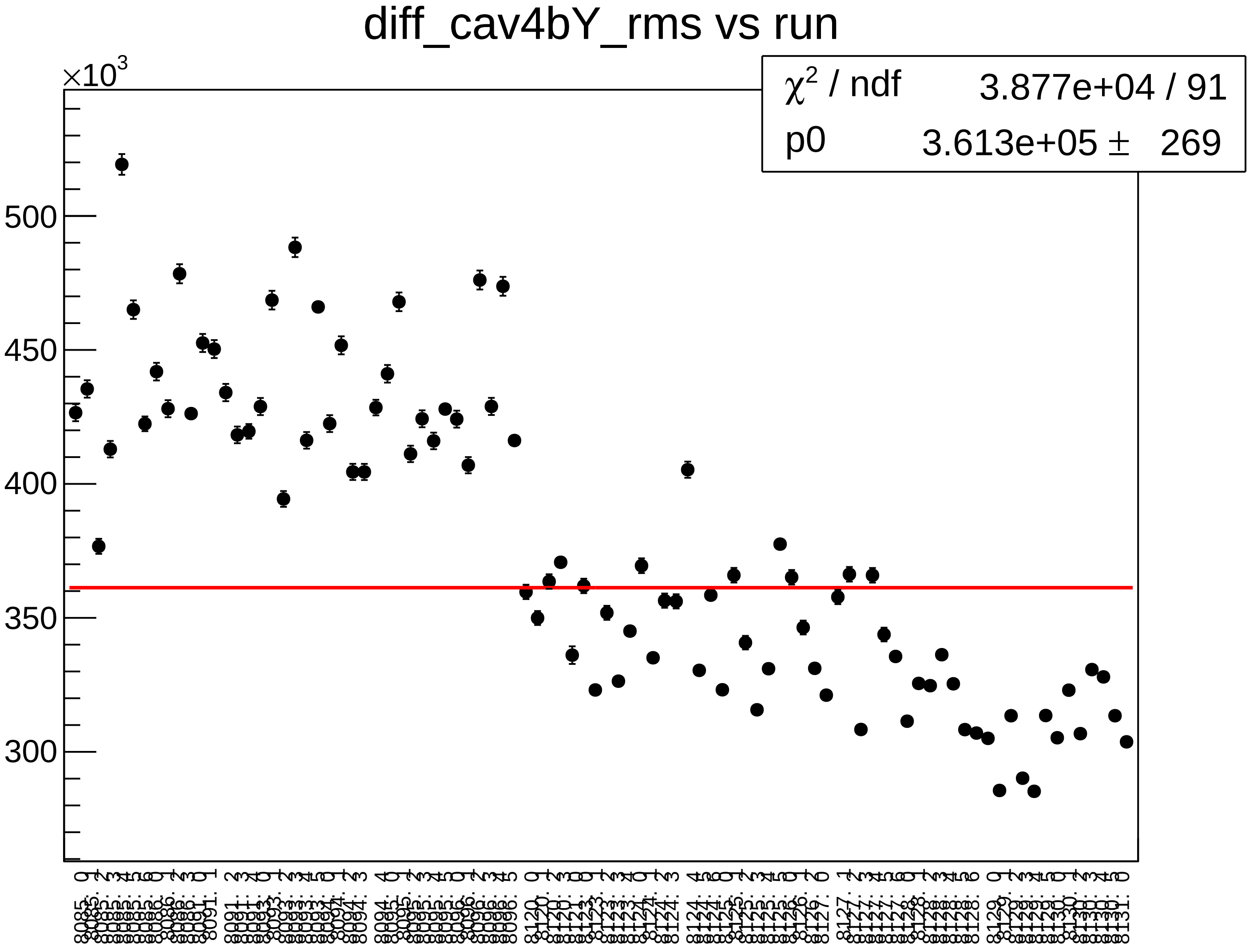
diff_cav4bY_mean vs run
χ^2 / ndf 92.84 / 91
p0 112.5 ± 380.4
15000
10000
5000
0
−5000
−10000
−15000



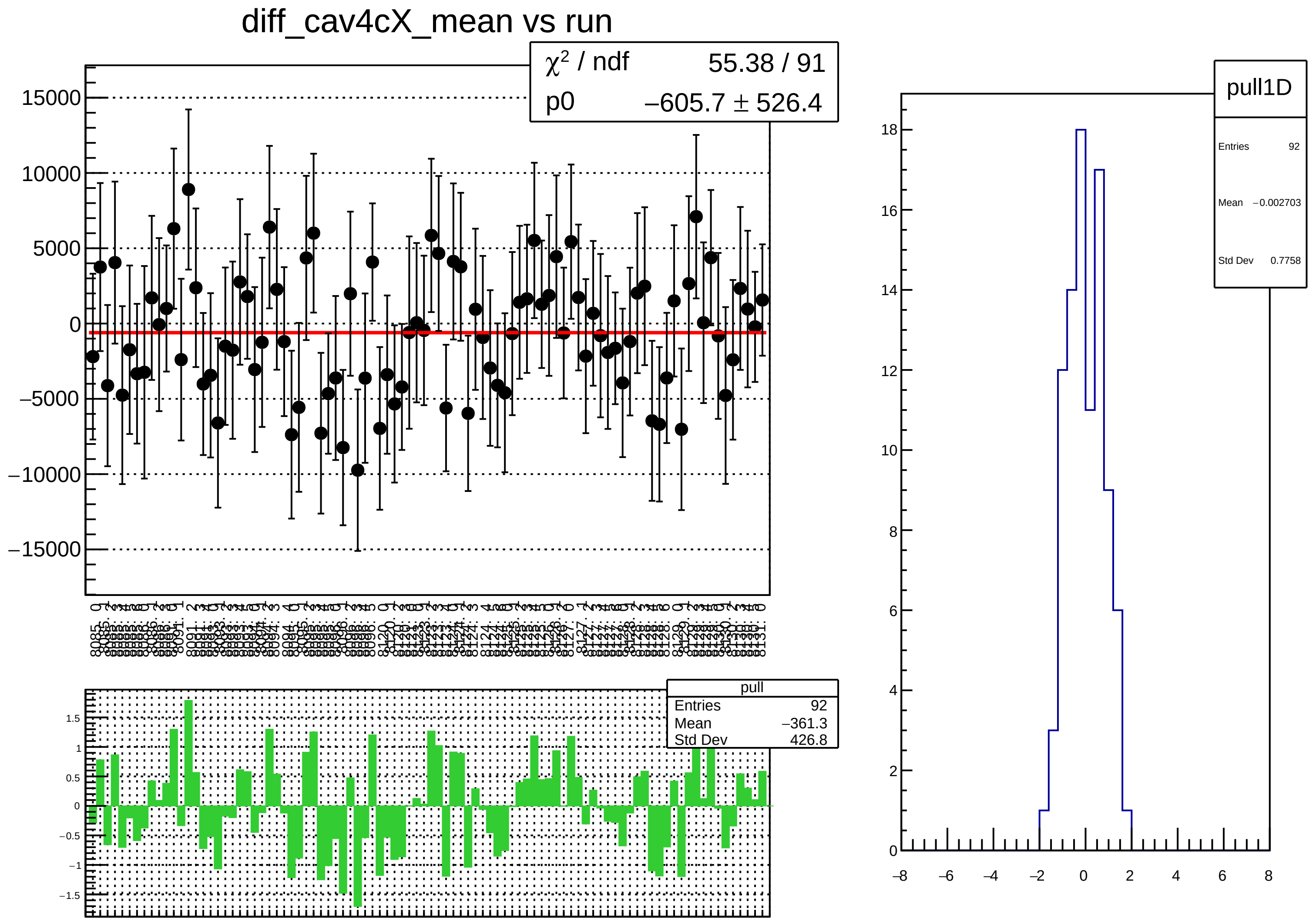
pull
Entries 92
Mean −5.718
Std Dev 33.26
2
1
0
−1
−2



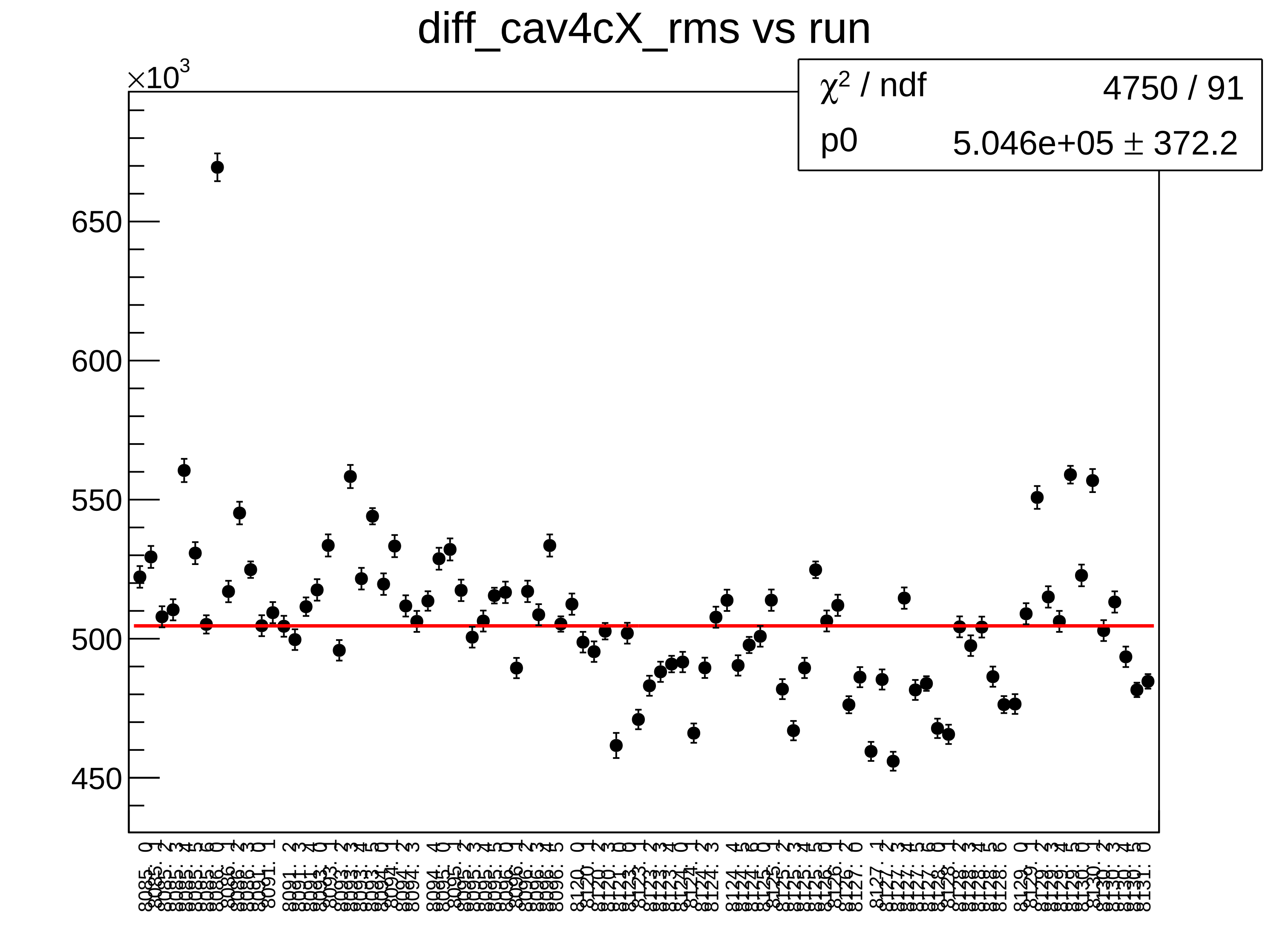
pull1D
Entries 92
Mean 0.008125
Std Dev 1.005
14
12
10
8
6
4
2
0
−8 −6 −4 −2 0 2 4 6 8

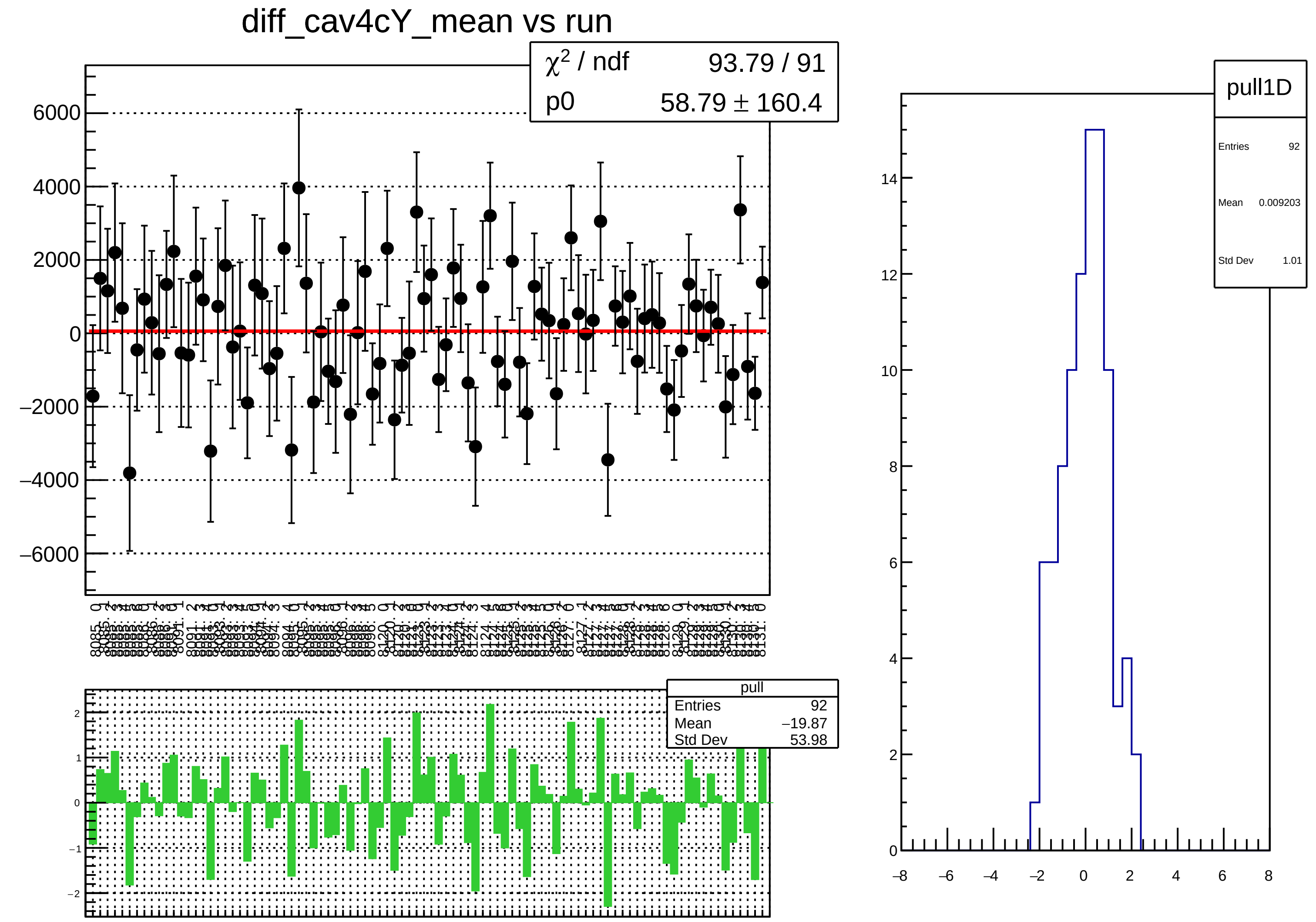


diff_cav4bY_rms vs run
$\times10^{3}$
χ^2 / ndf 3.877e+04 / 91
p0 3.613e+05 ± 269
500
450
400
350
300

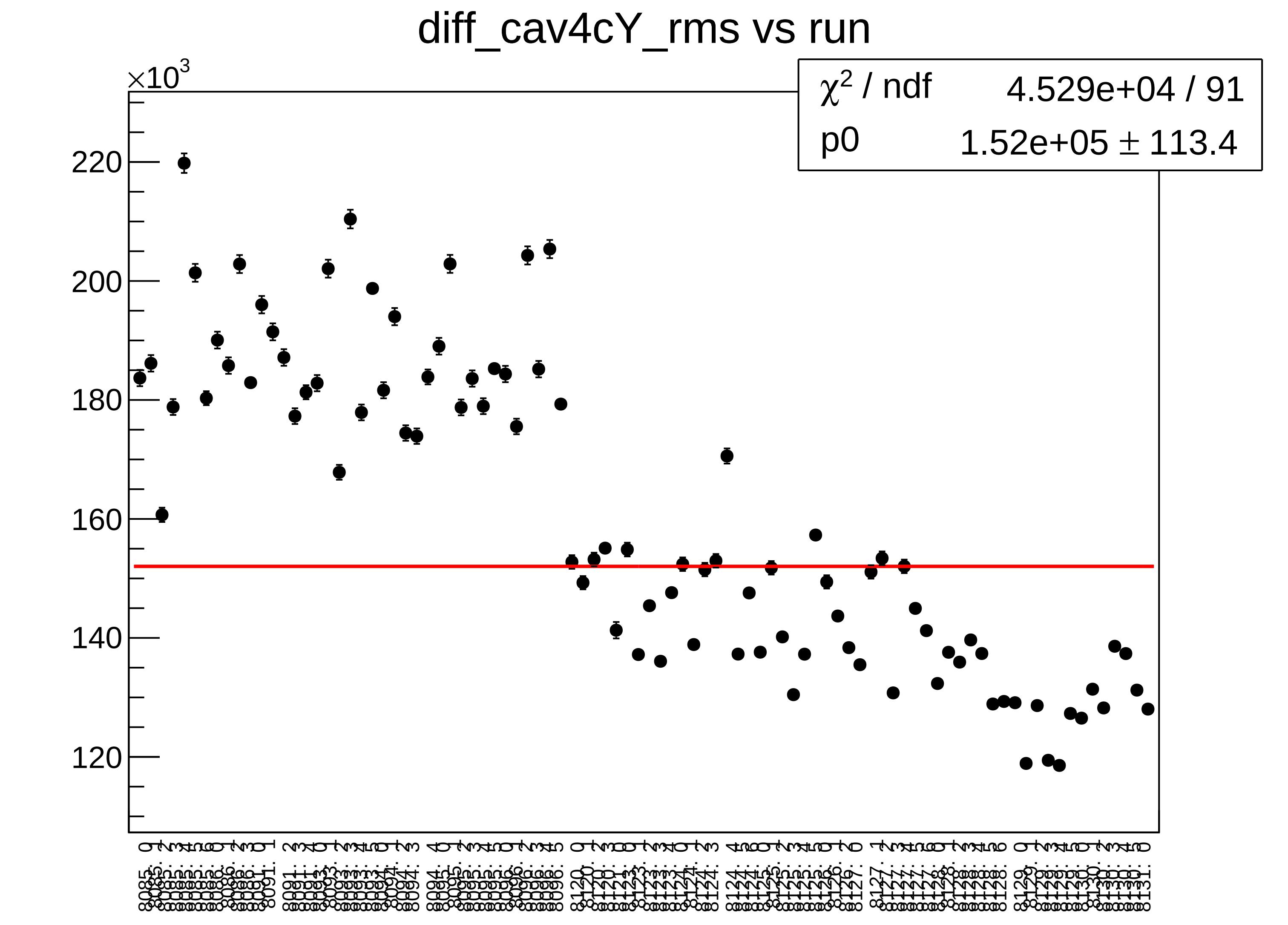


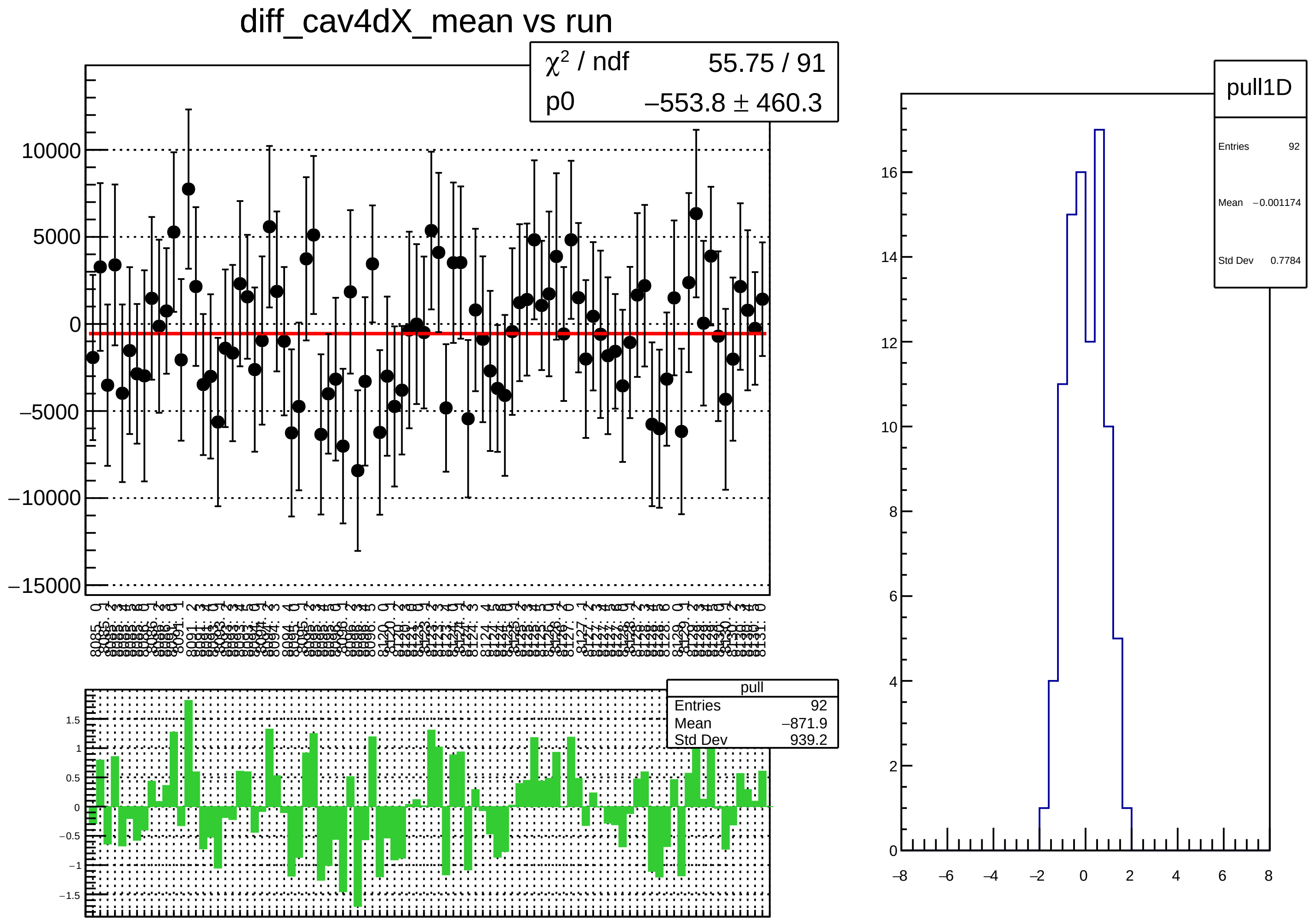
diff_cav4cX_mean vs run
χ^2 / ndf 55.38 / 91
p0 −605.7 ± 526.4
pull
Entries 92
Mean −361.3
Std Dev 426.8
pull1D
Entries 92
Mean −0.002703
Std Dev 0.7758

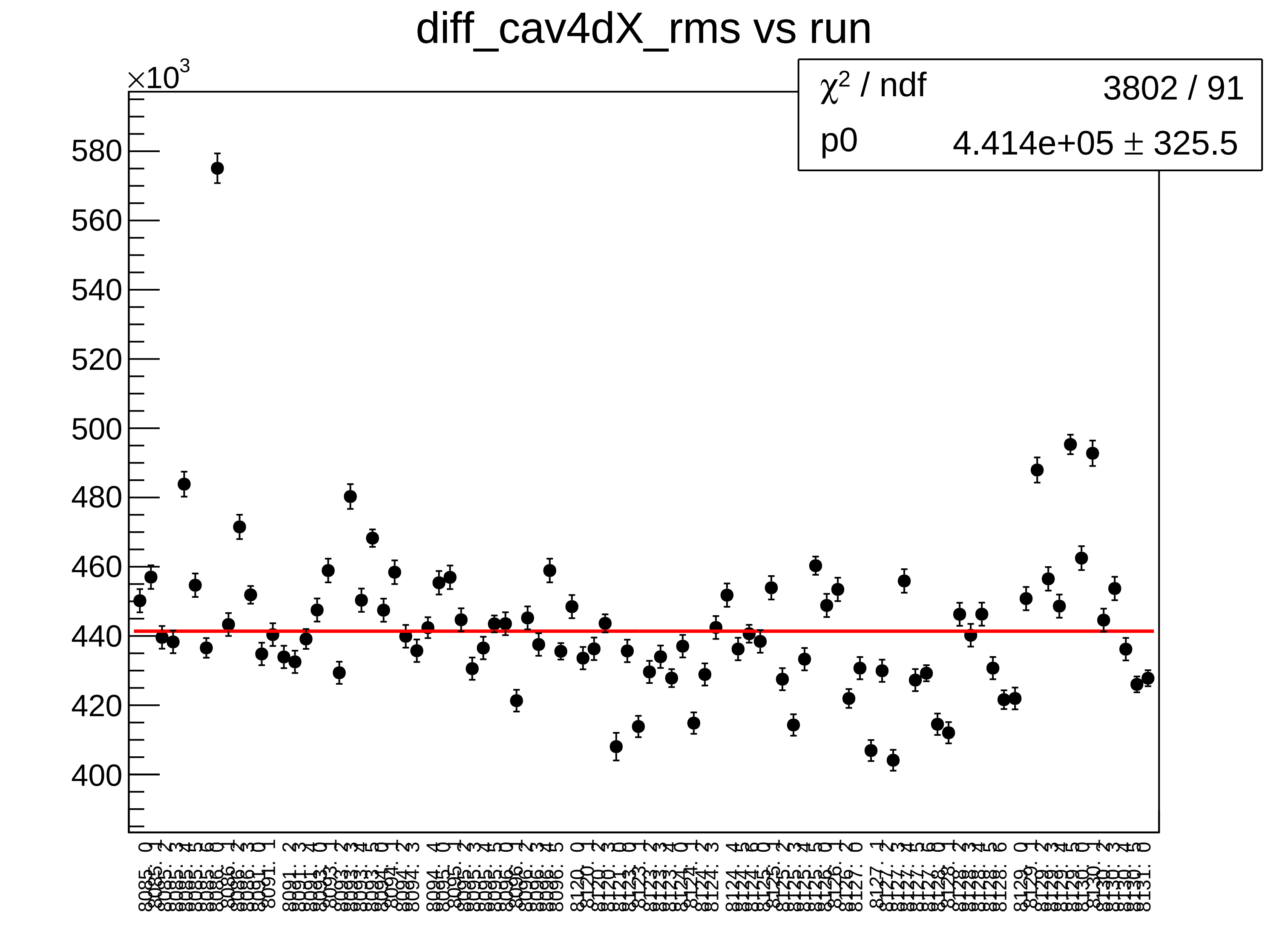

diff_cav4cX_rms vs run
×10^3
χ2 / ndf 4750 / 91
p0 5.046e+05 ± 372.2
650
600
550
500
450

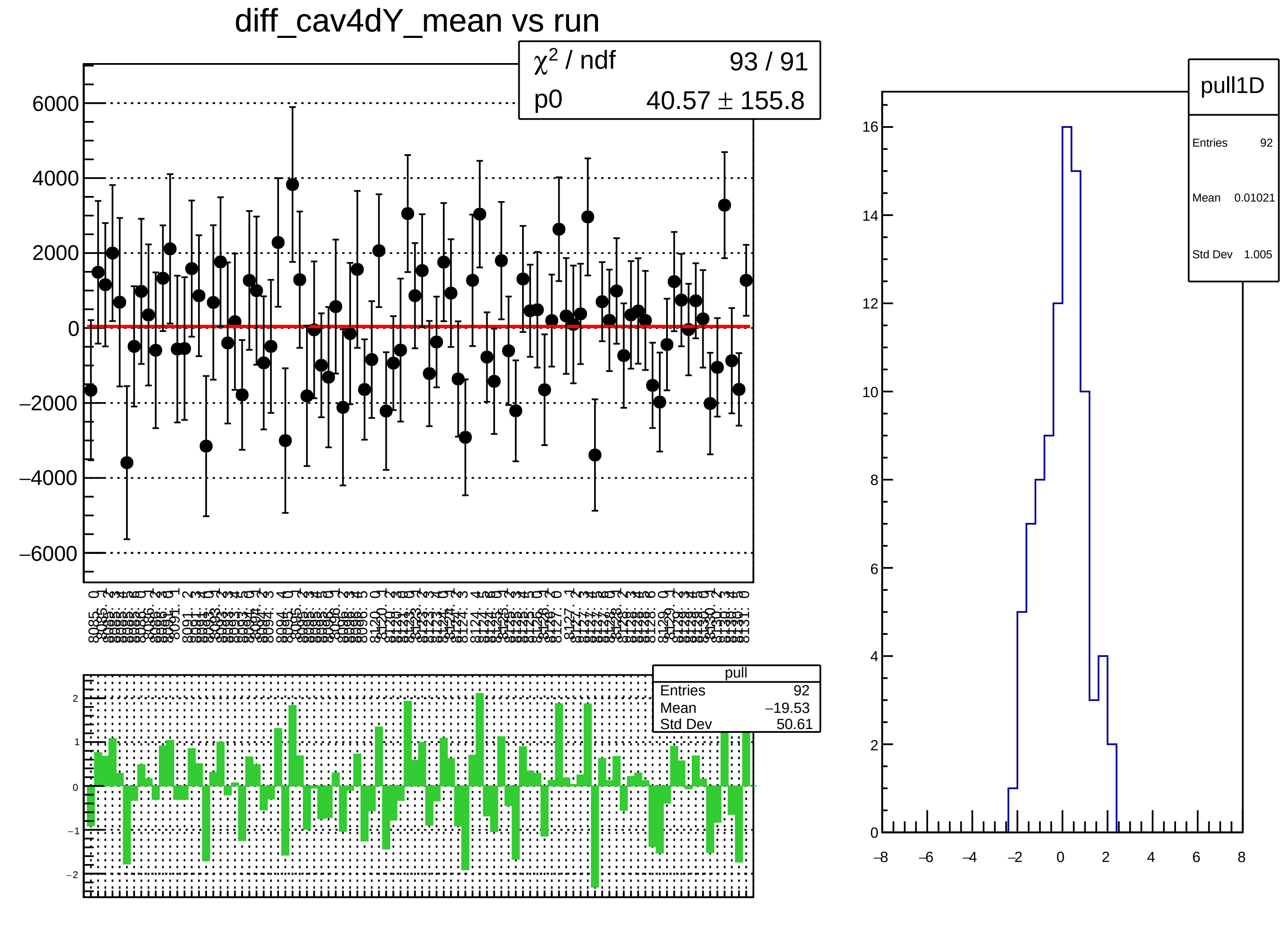


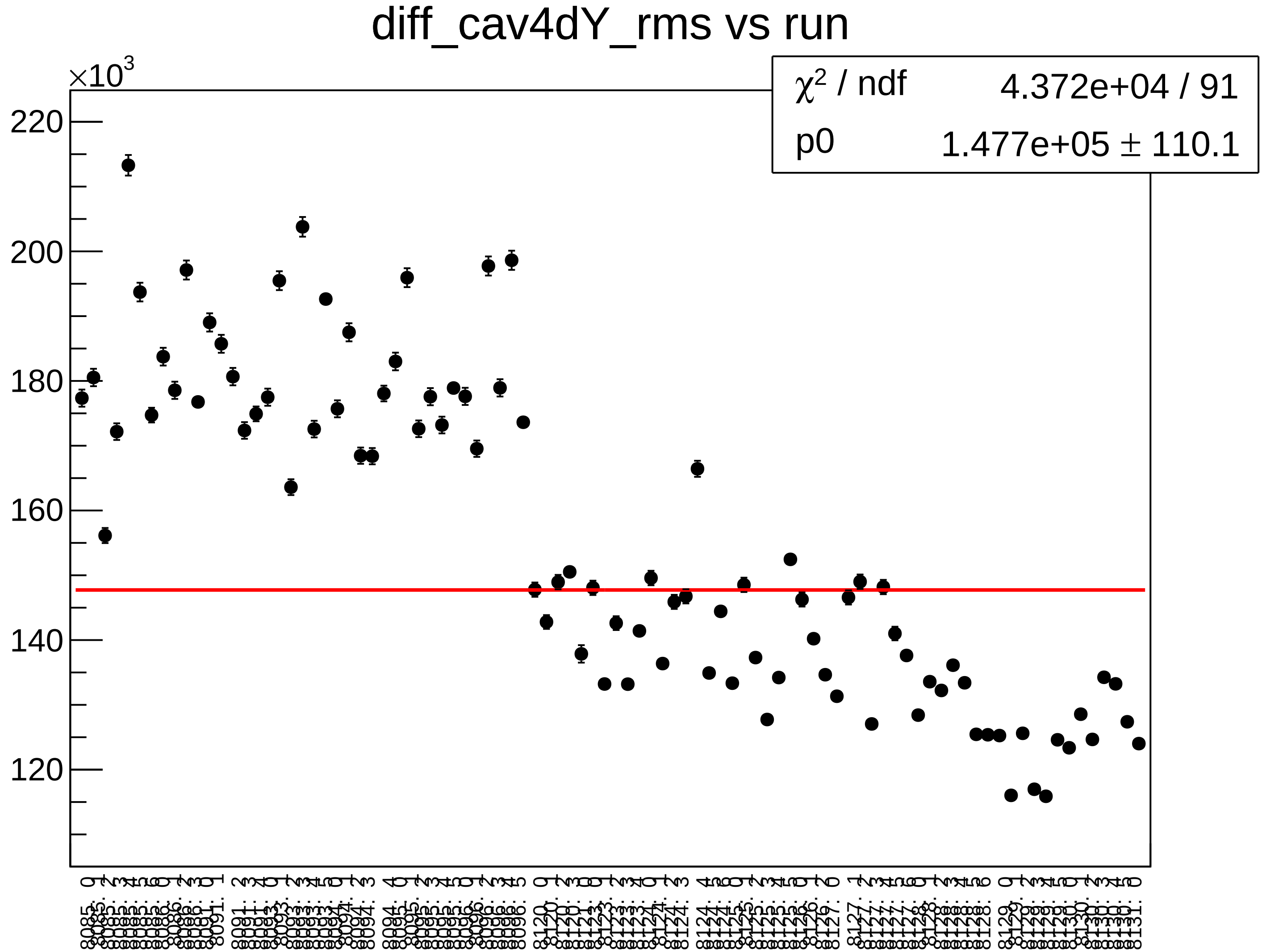
diff_cav4cY_mean vs run
χ^2 / ndf 93.79 / 91
p0 58.79 ± 160.4
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −19.87
Std Dev 53.98
pull1D
Entries 92
Mean 0.009203
Std Dev 1.01

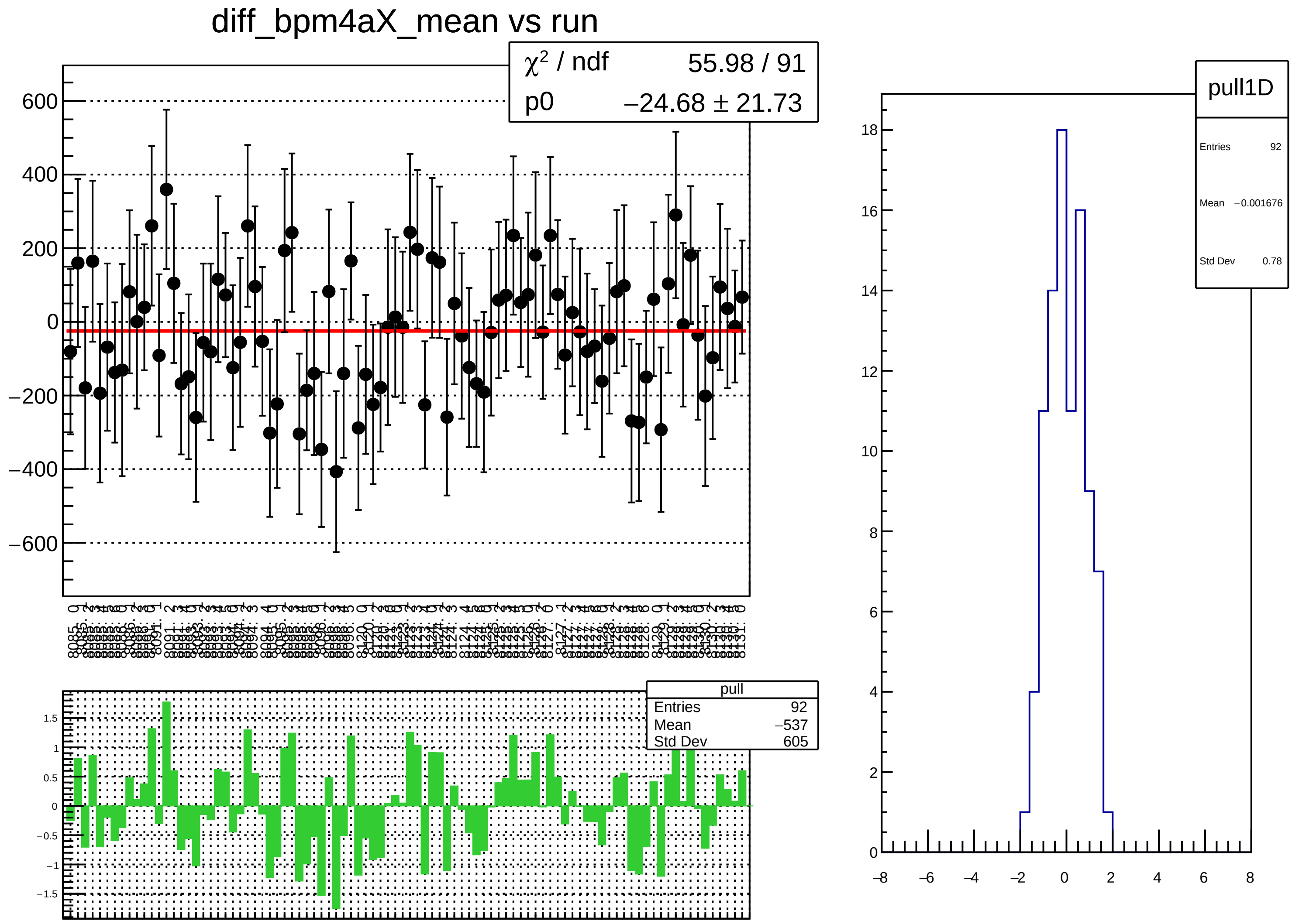

diff_cav4cY_rms vs run
×10^3
χ2 / ndf 4.529e+04 / 91
p0 1.52e+05 ± 113.4
220
200
180
160
140
120

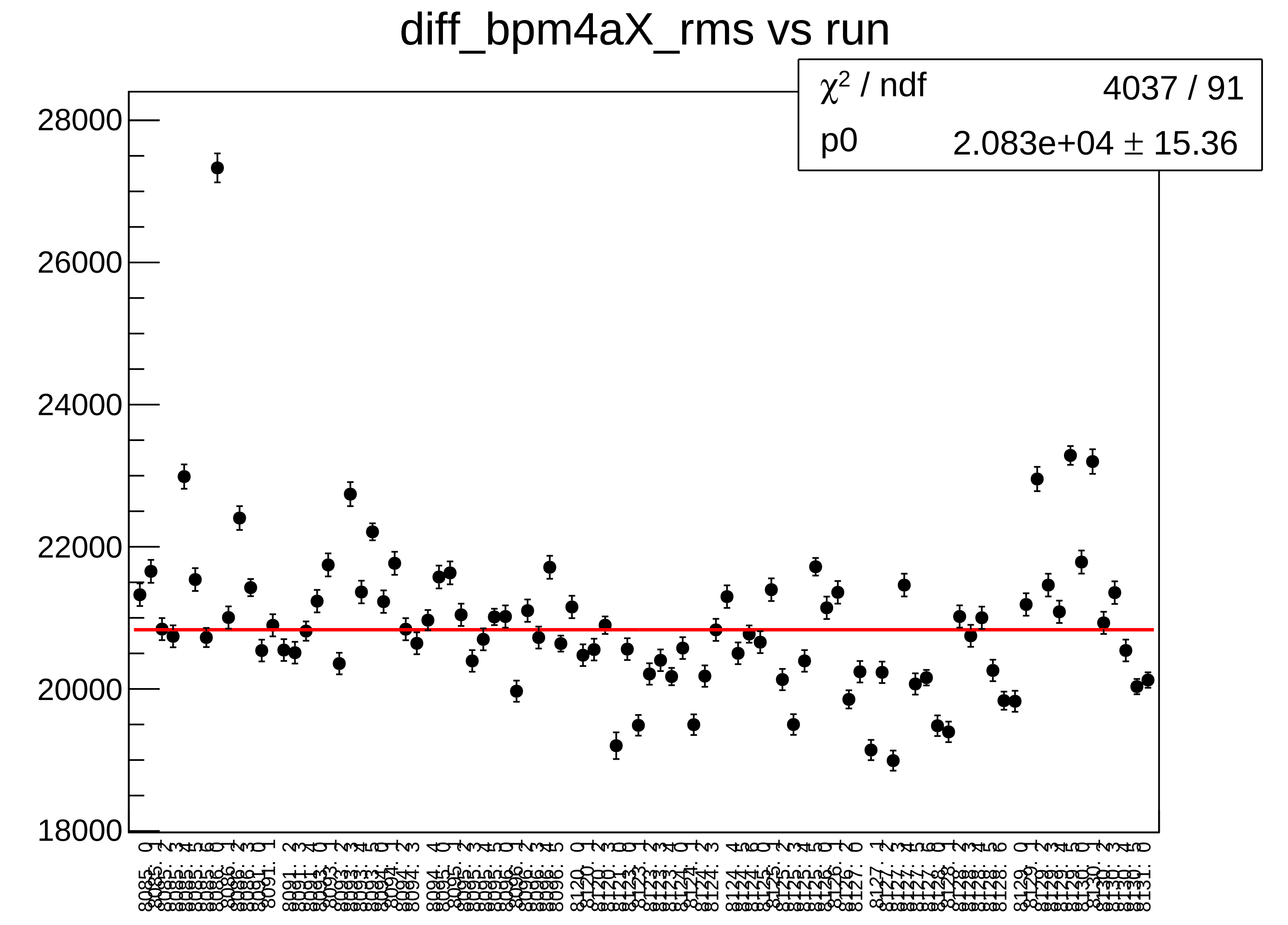

diff_cav4dX_mean vs run
χ^2 / ndf 55.75 / 91
p0 −553.8 ± 460.3
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −871.9
Std Dev 939.2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.001174
Std Dev 0.7784
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4dX_rms vs run
×10^3
χ2 / ndf 3802 / 91
p0 4.414e+05 ± 325.5
580
560
540
520
500
480
460
440
420
400

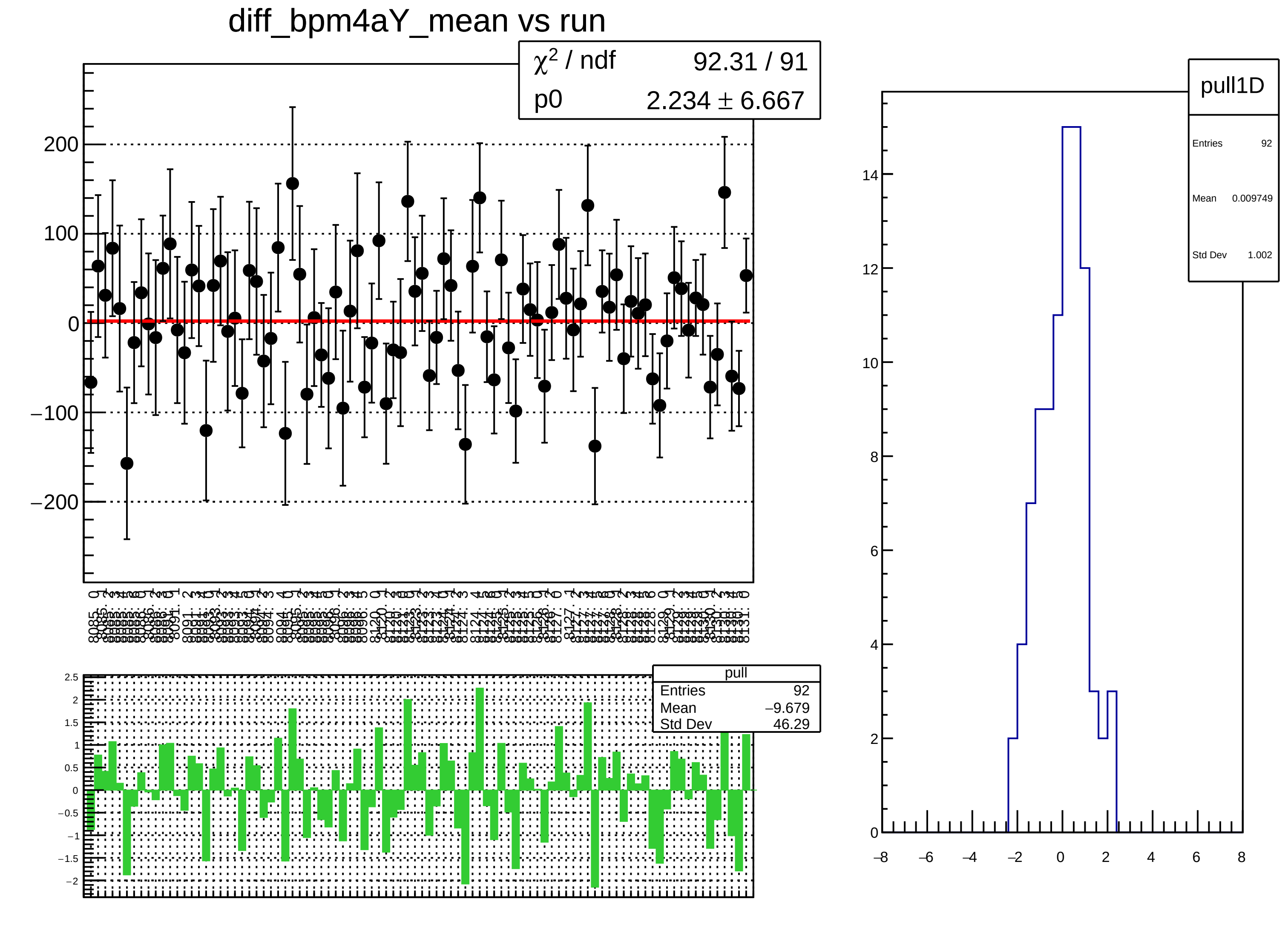

diff_cav4dY_mean vs run
χ^2 / ndf 93 / 91
p0 40.57 ± 155.8
pull
Entries 92
Mean −19.53
Std Dev 50.61
pull1D
Entries 92
Mean 0.01021
Std Dev 1.005


diff_cav4dY_rms vs run
×10^3
χ2 / ndf 4.372e+04 / 91
p0 1.477e+05 ± 110.1
220
200
180
160
140
120

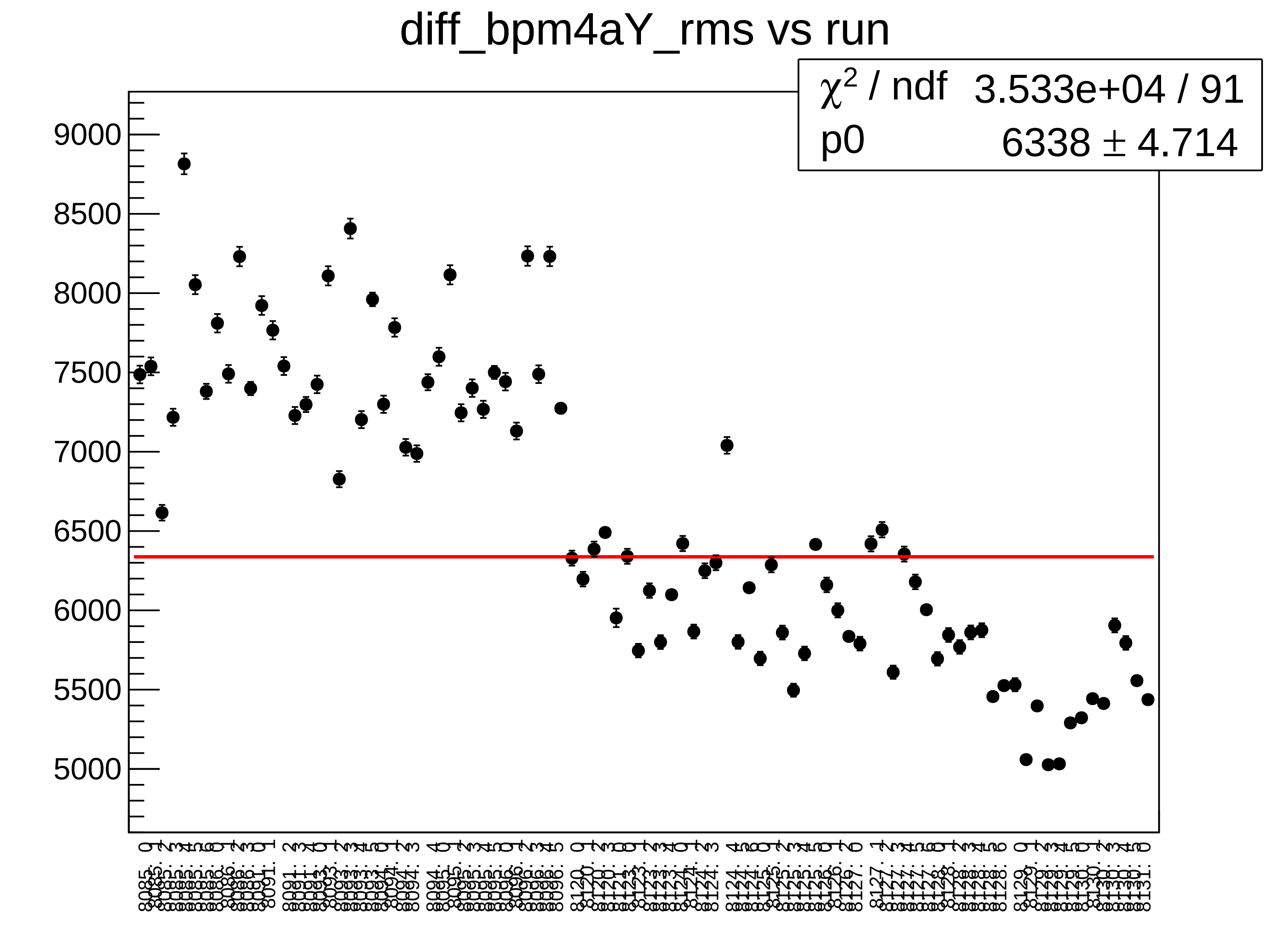

diff_bpm4aX_mean vs run
χ² / ndf 55.98 / 91
p0 −24.68 ± 21.73
pull
Entries 92
Mean −537
Std Dev 605
pull1D
Entries 92
Mean −0.001676
Std Dev 0.78



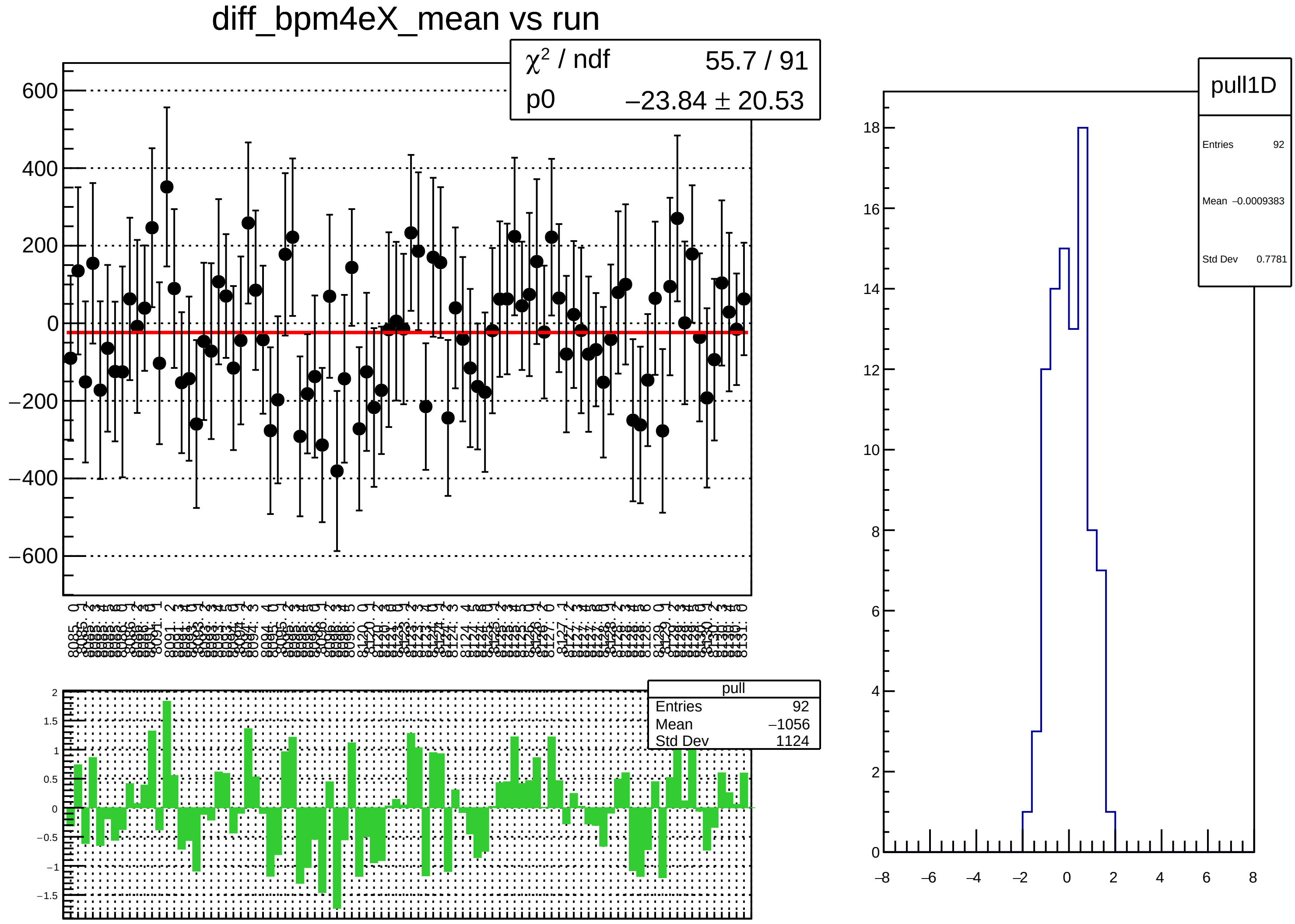
diff_bpm4aX_rms vs run
χ2 / ndf 4037 / 91
p0 2.083e+04 ± 15.36
28000
26000
24000
22000
20000
18000

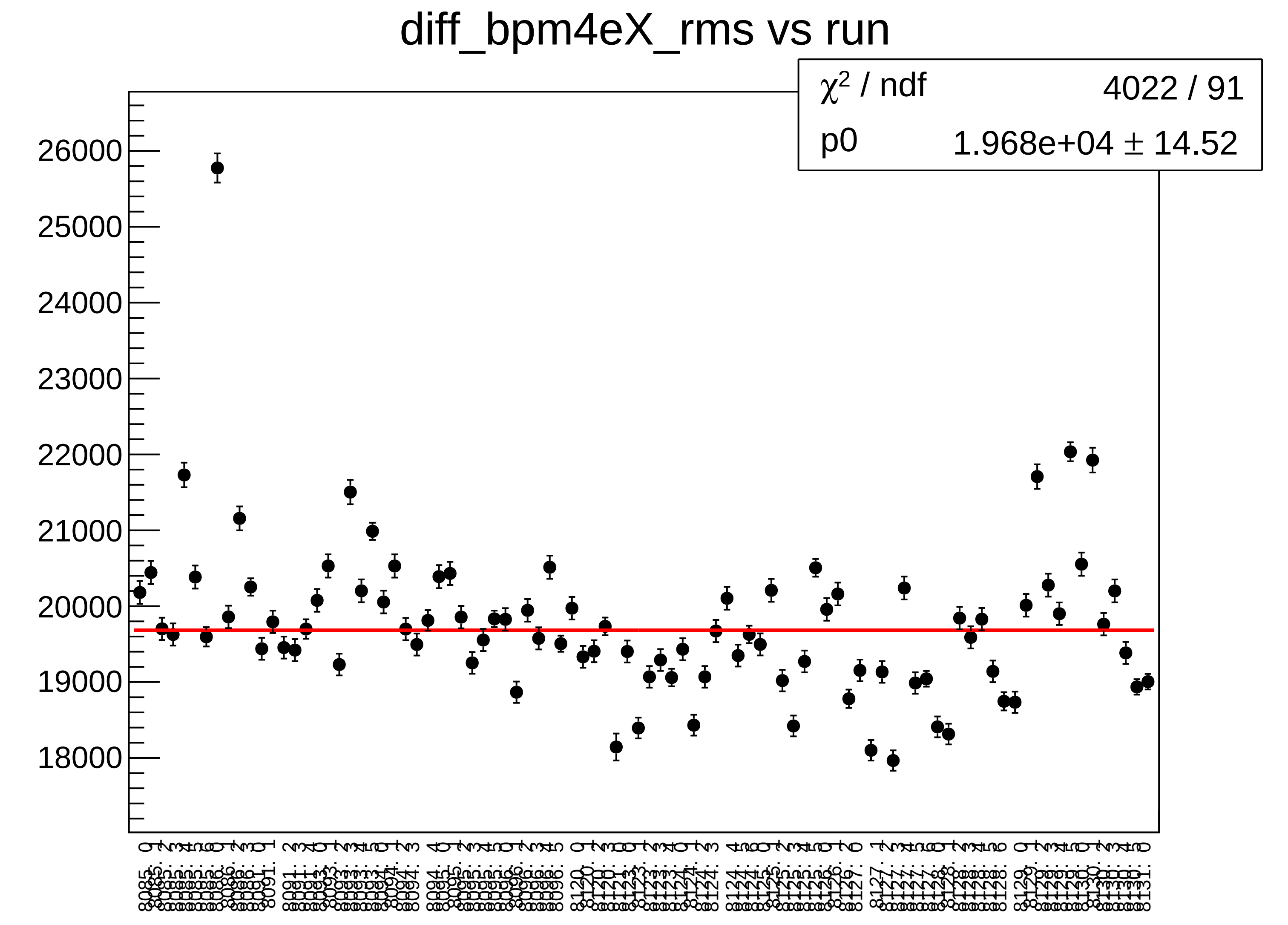


diff_bpm4aY_mean vs run
χ^2 / ndf 92.31 / 91
p0 2.234 ± 6.667
pull
Entries 92
Mean −9.679
Std Dev 46.29
pull1D
Entries 92
Mean 0.009749
Std Dev 1.002

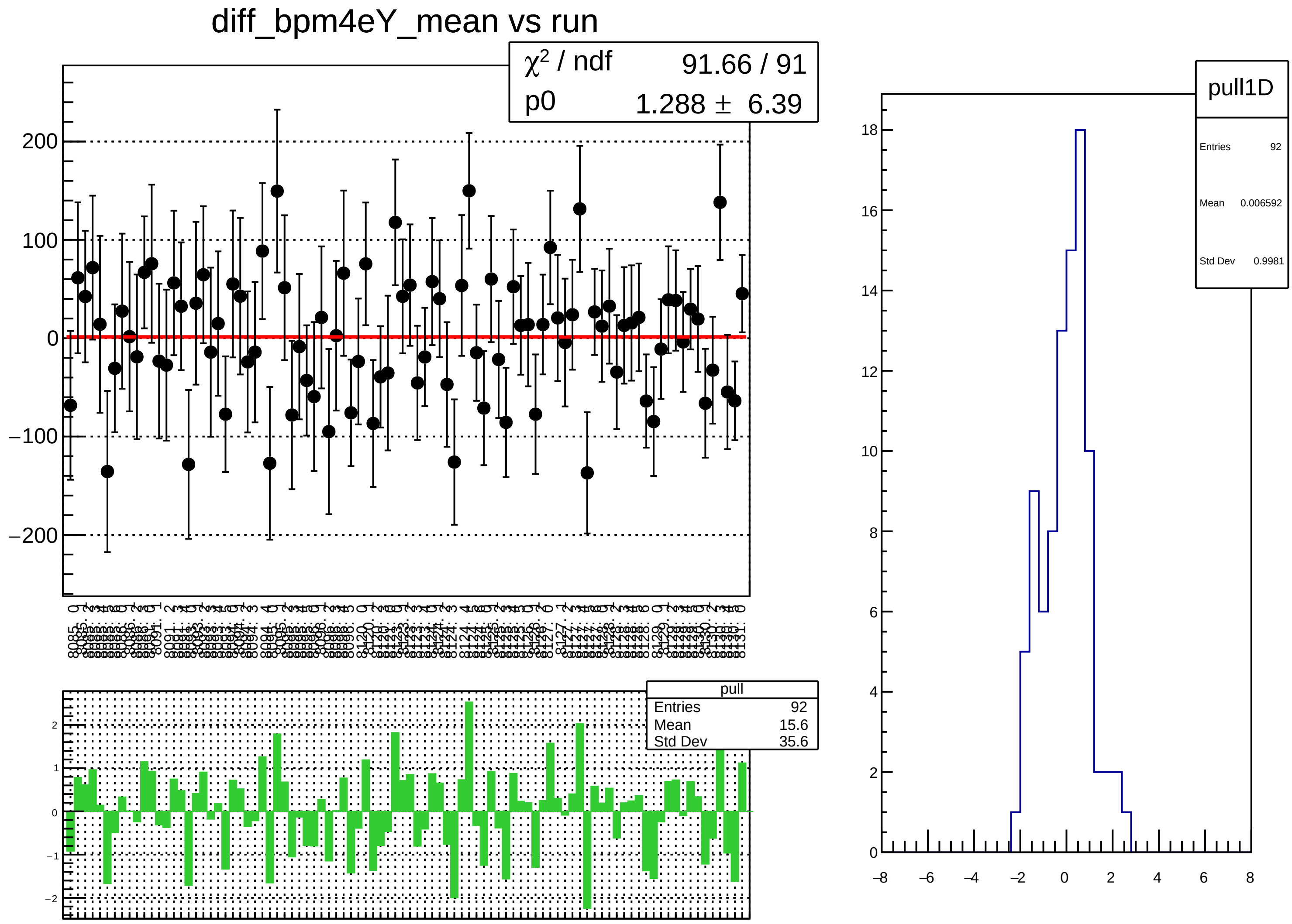


diff_bpm4aY_rms vs run
χ^2 / ndf 3.533e+04 / 91
p0 6338 ± 4.714
9000
8500
8000
7500
7000
6500
6000
5500
5000

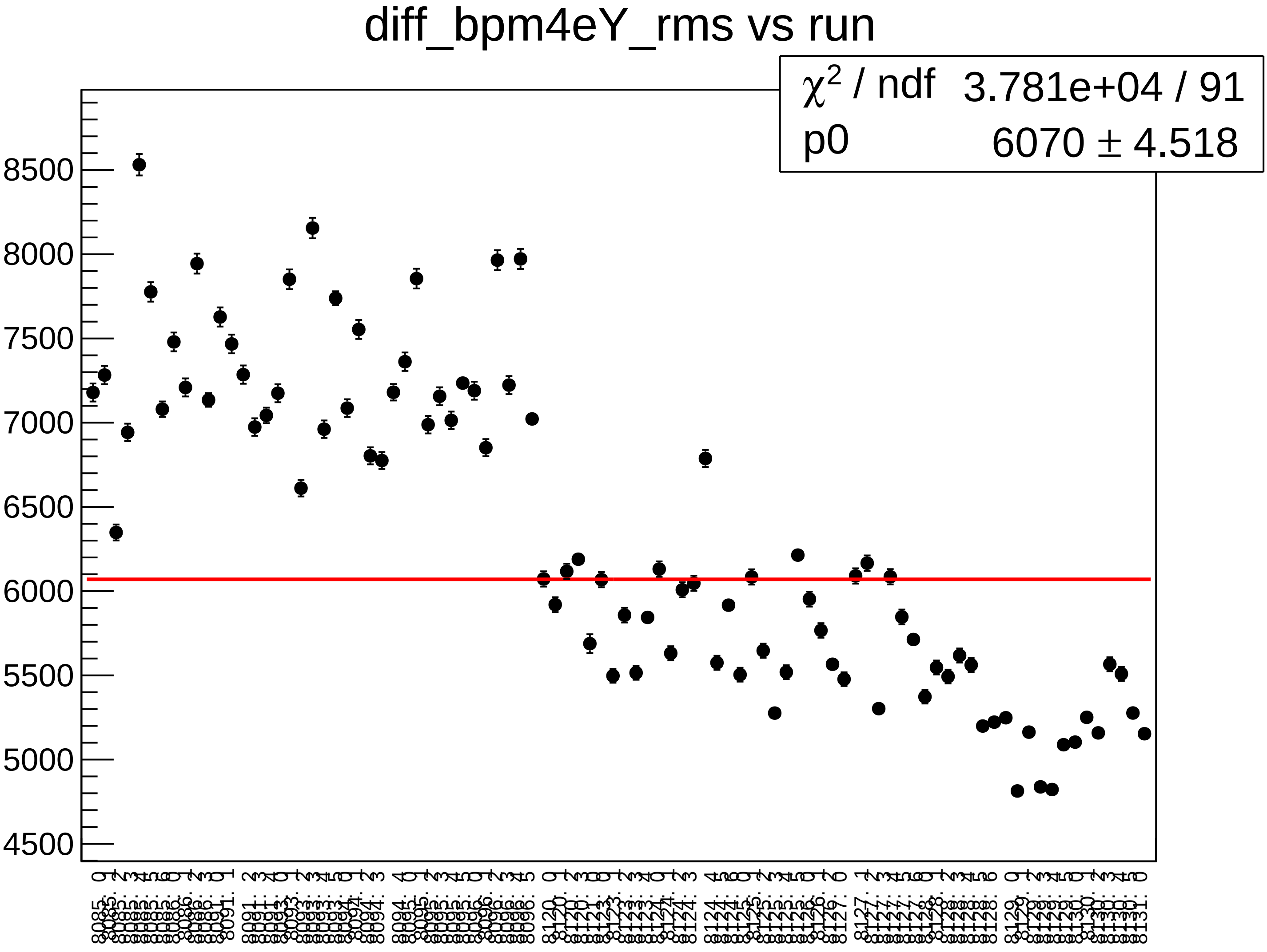

diff_bpm4eX_mean vs run
χ^2 / ndf 55.7 / 91
p0 −23.84 ± 20.53
pull
Entries 92
Mean −1056
Std Dev 1124
pull1D
Entries 92
Mean −0.0009383
Std Dev 0.7781



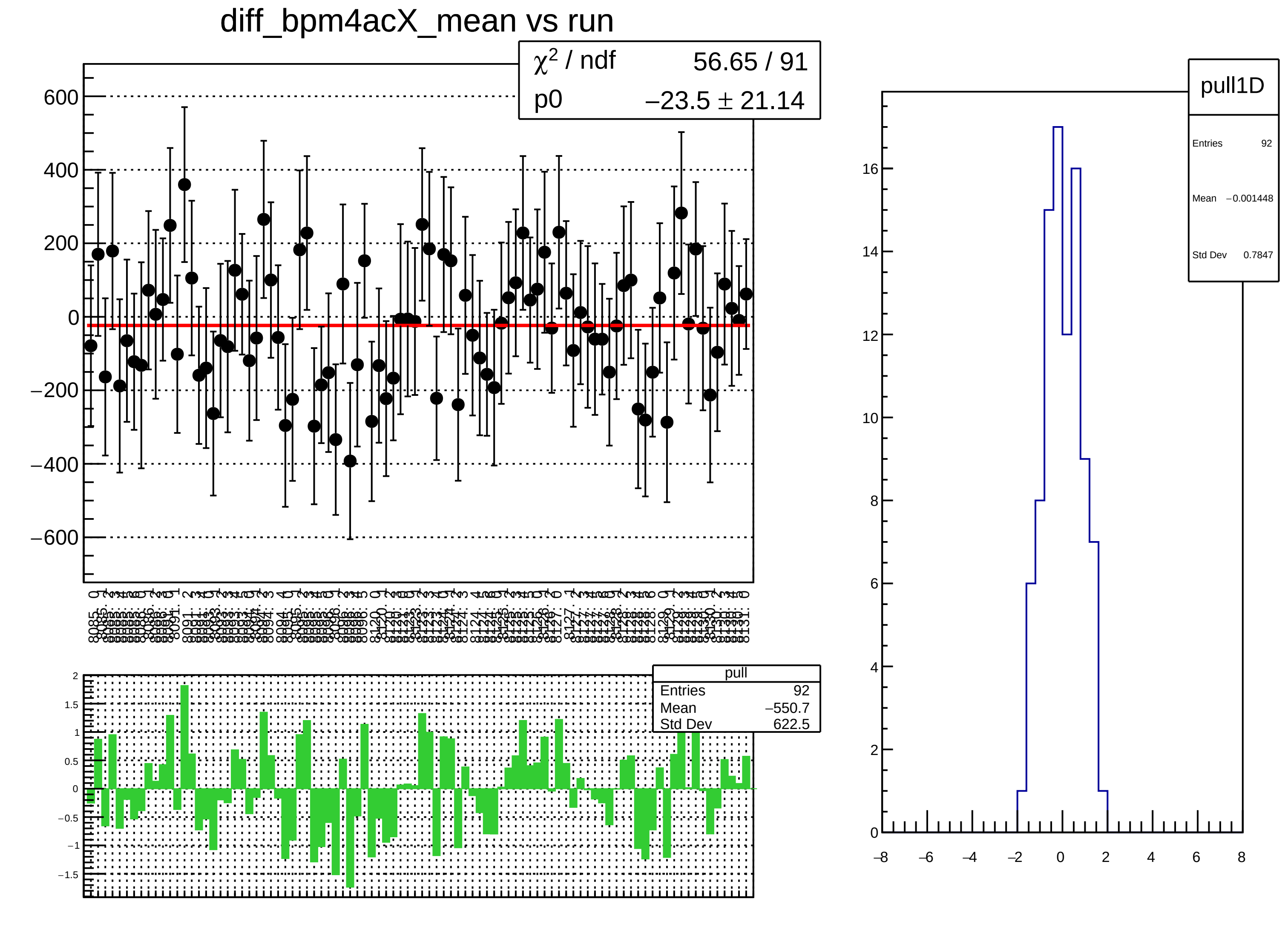
diff_bpm4eX_rms vs run
χ2 / ndf 4022 / 91
p0 1.968e+04 ± 14.52
26000
25000
24000
23000
22000
21000
20000
19000
18000

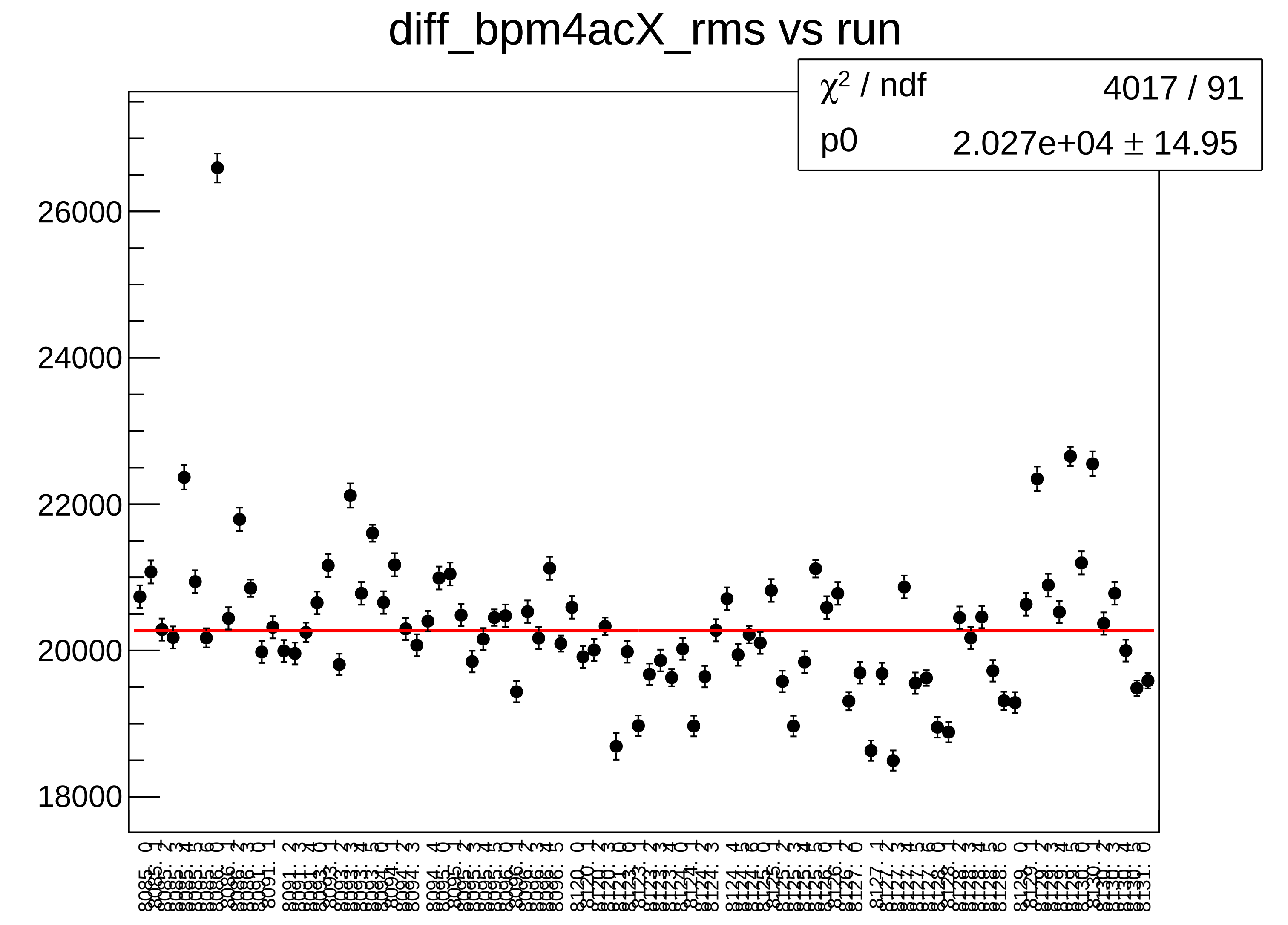


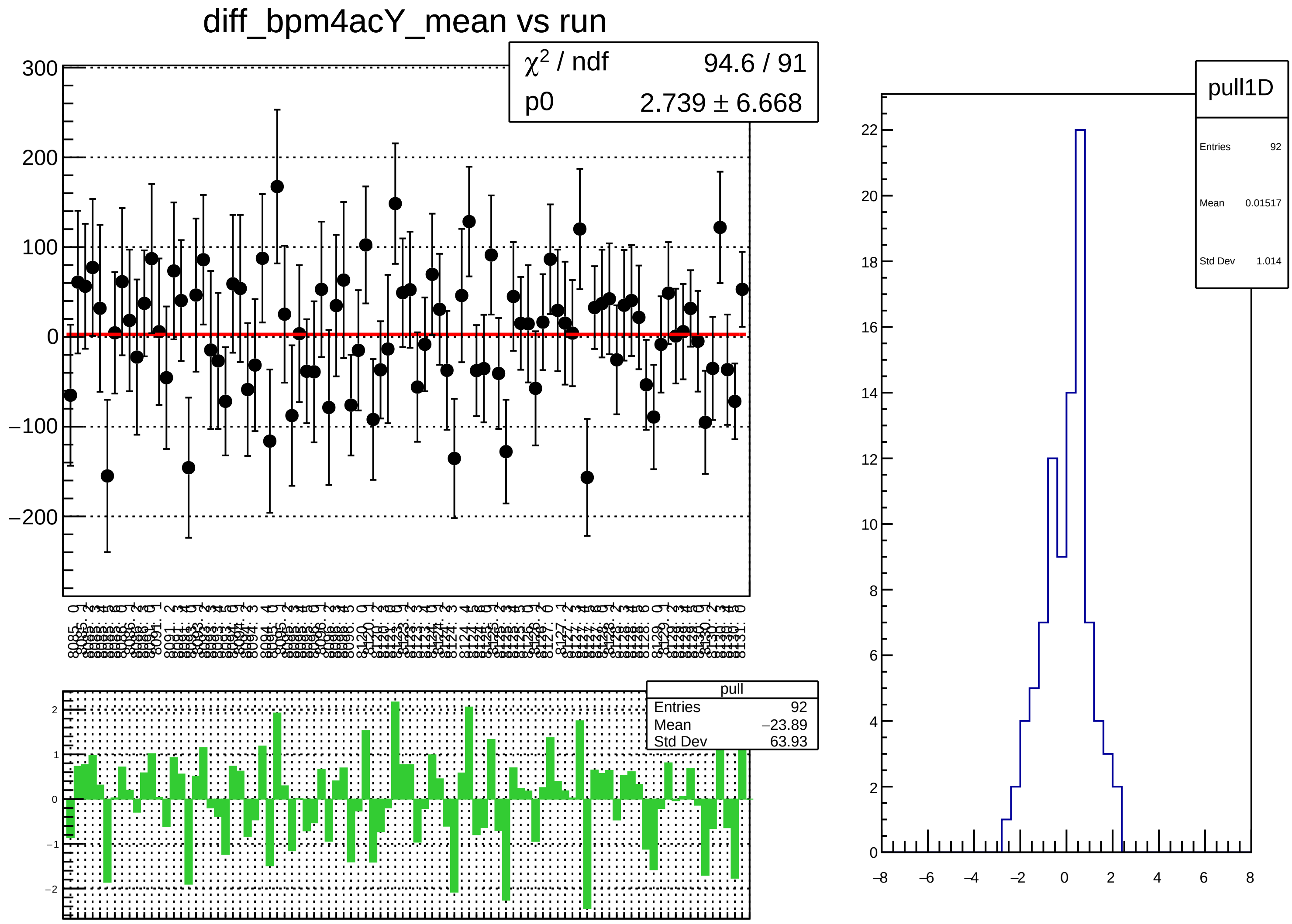
diff_bpm4eY_mean vs run
χ^2 / ndf 91.66 / 91
p0 1.288 ± 6.39
pull
Entries 92
Mean 15.6
Std Dev 35.6
pull1D
Entries 92
Mean 0.006592
Std Dev 0.9981



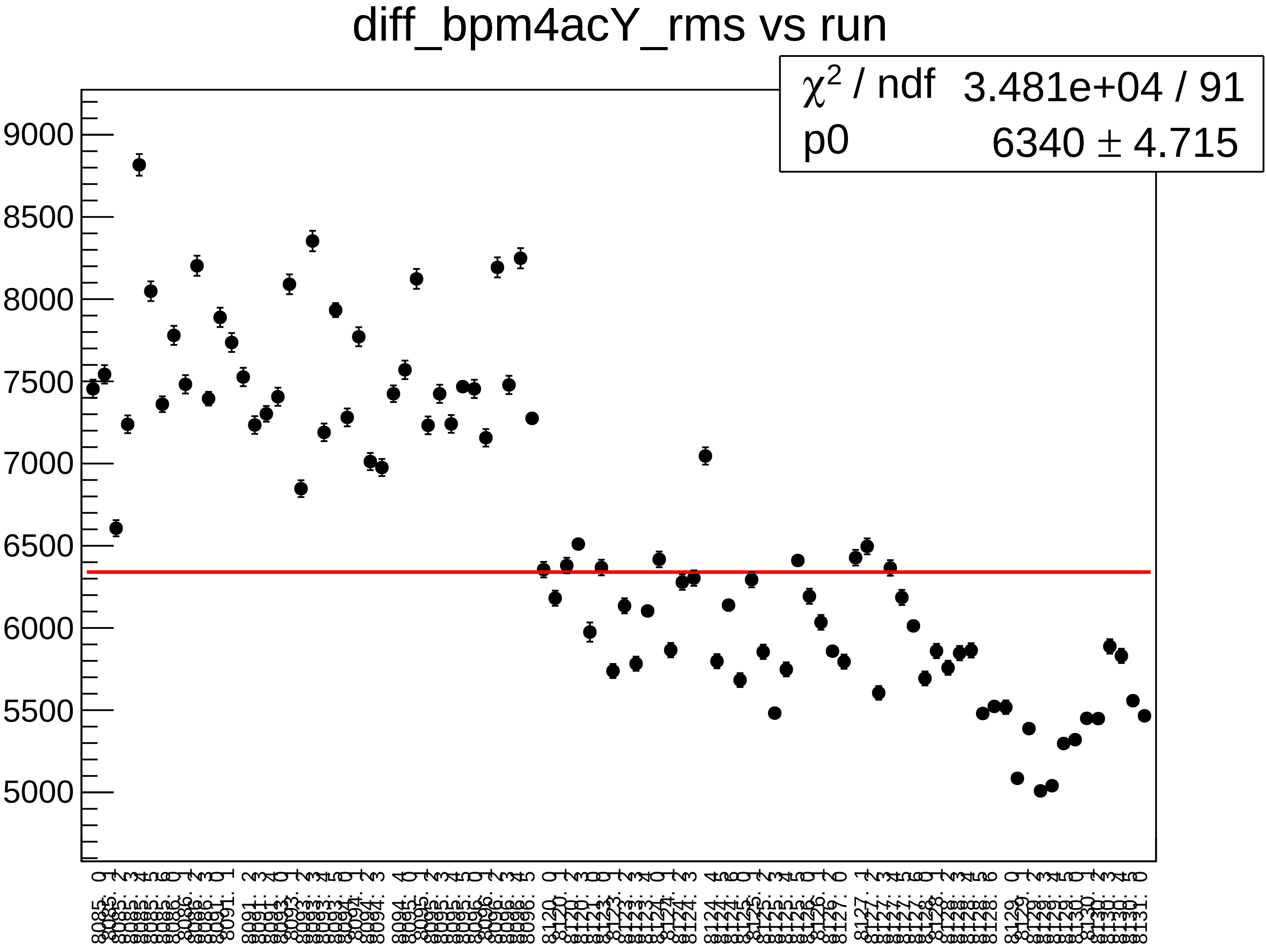
diff_bpm4eY_rms vs run
χ^2 / ndf 3.781e+04 / 91
p0 6070 ± 4.518
8500
8000
7500
7000
6500
6000
5500
5000
4500

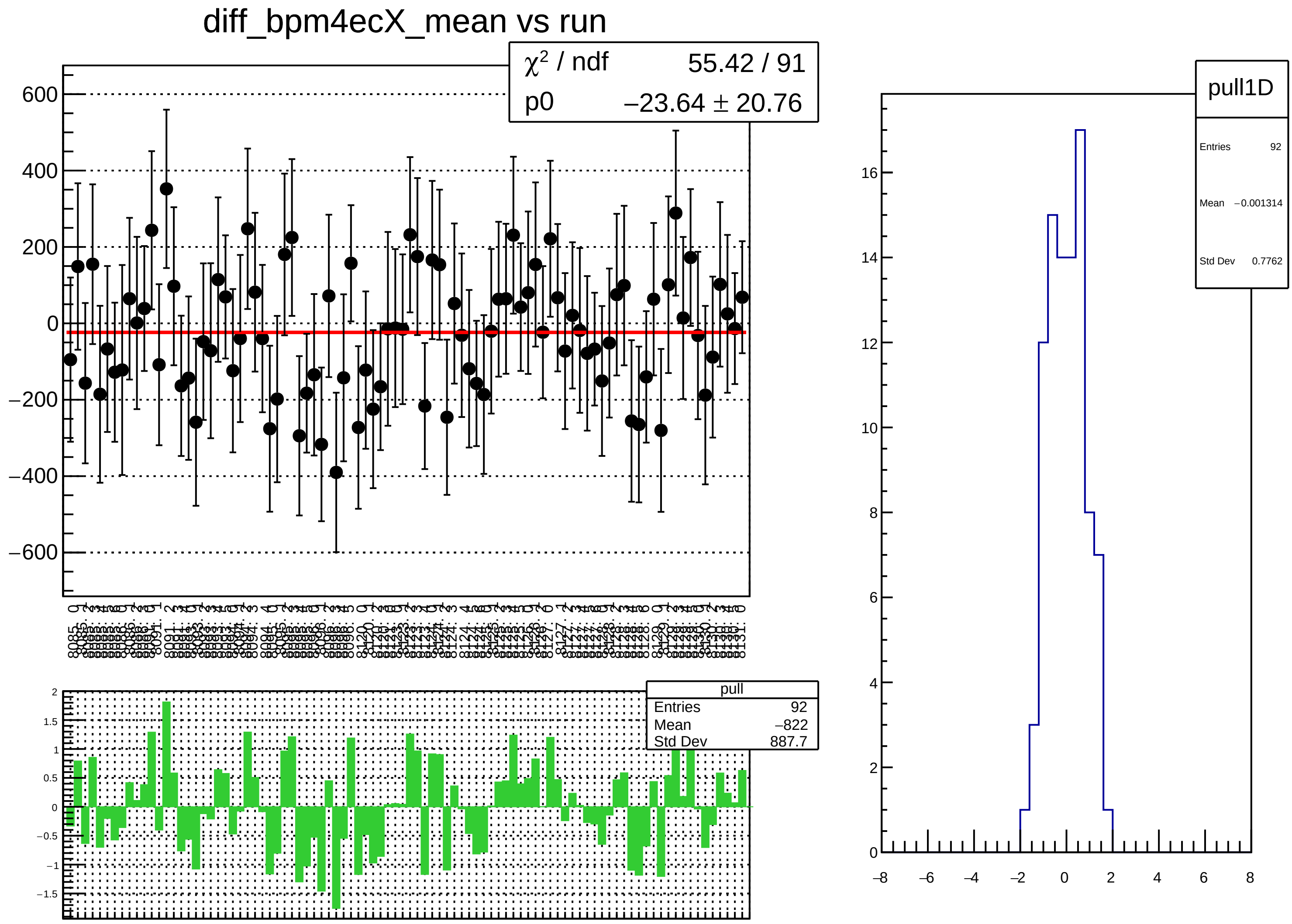

diff_bpm4acX_mean vs run
χ^2 / ndf 56.65 / 91
p0 −23.5 ± 21.14
pull
Entries 92
Mean −550.7
Std Dev 622.5
pull1D
Entries 92
Mean −0.001448
Std Dev 0.7847


diff_bpm4acX_rms vs run
χ^2 / ndf 4017 / 91
p0 2.027e+04 ± 14.95
26000
24000
22000
20000
18000

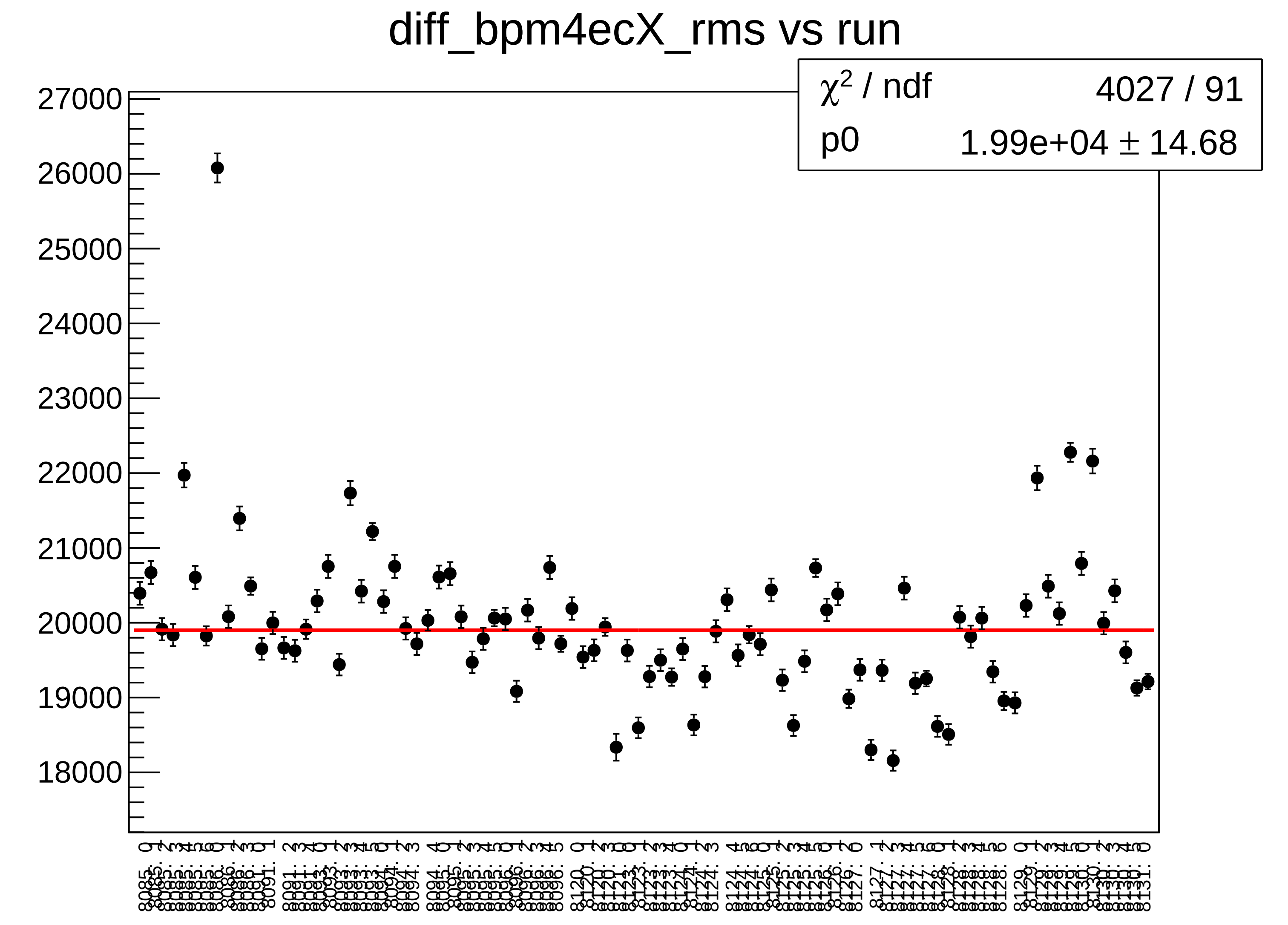


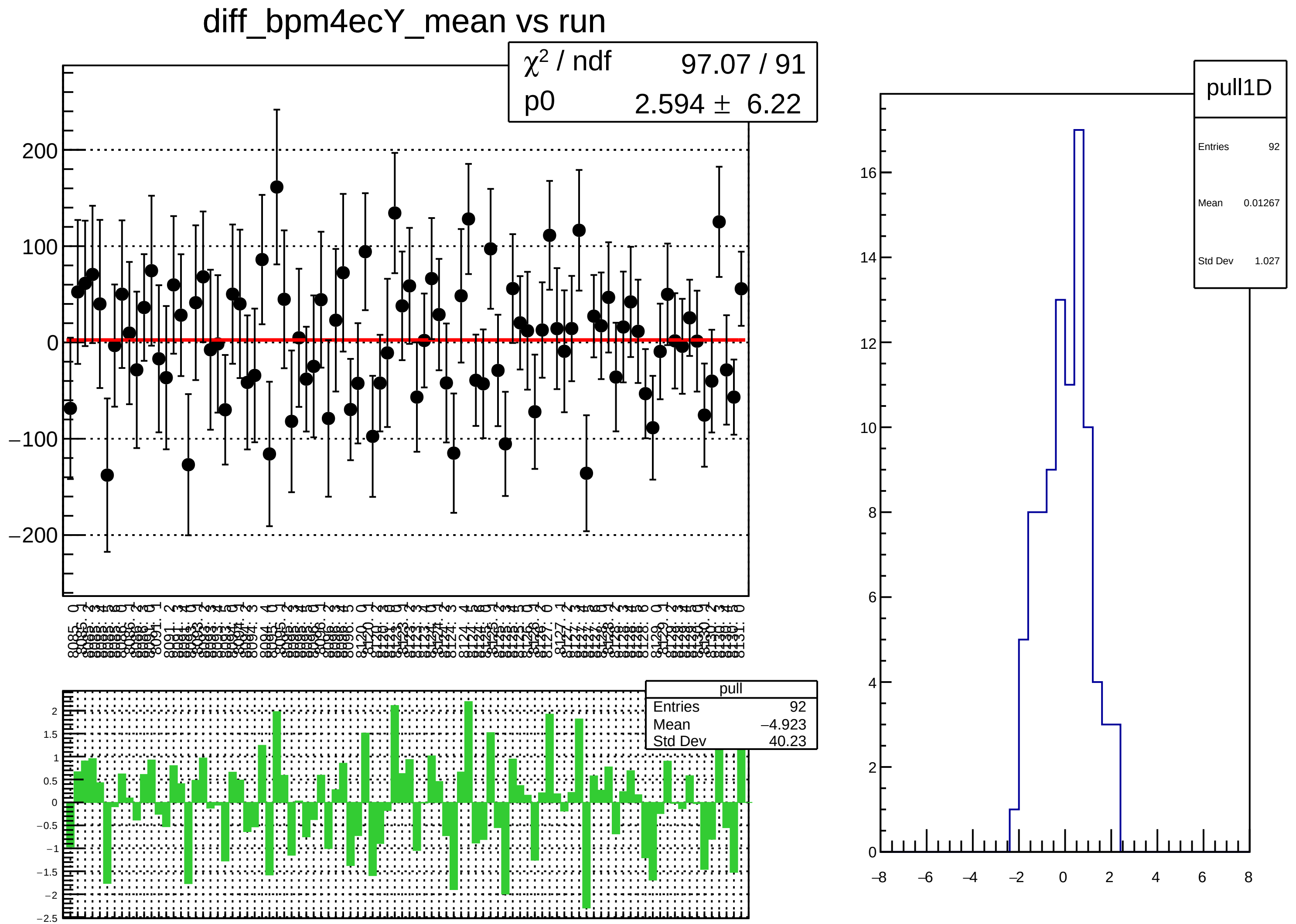
diff_bpm4acY_mean vs run
χ^2 / ndf 94.6 / 91
p0 2.739 ± 6.668
pull
Entries 92
Mean −23.89
Std Dev 63.93
pull1D
Entries 92
Mean 0.01517
Std Dev 1.014

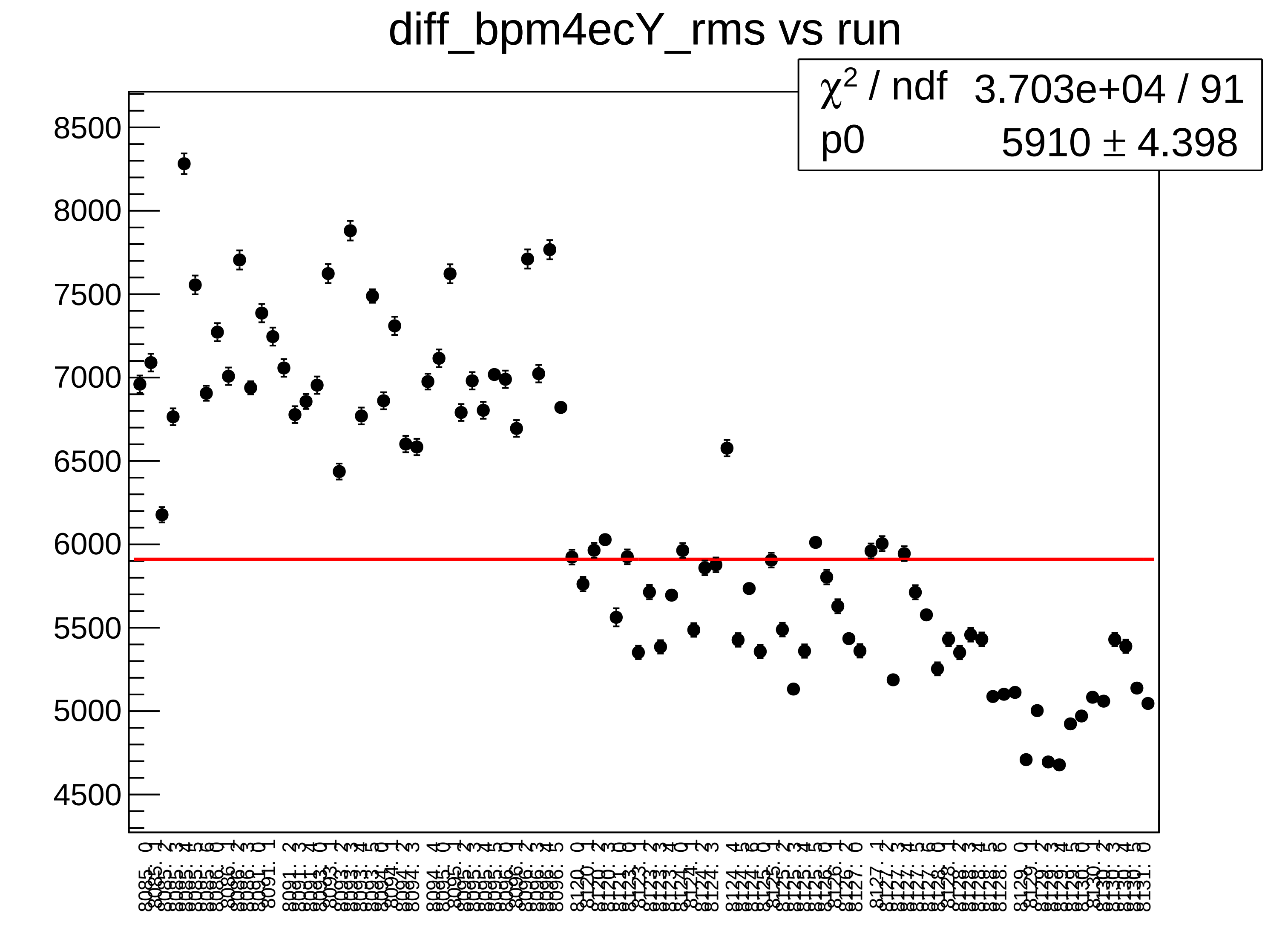

diff_bpm4acY_rms vs run
χ2 / ndf 3.481e+04 / 91
p0 6340 ± 4.715
9000
8500
8000
7500
7000
6500
6000
5500
5000



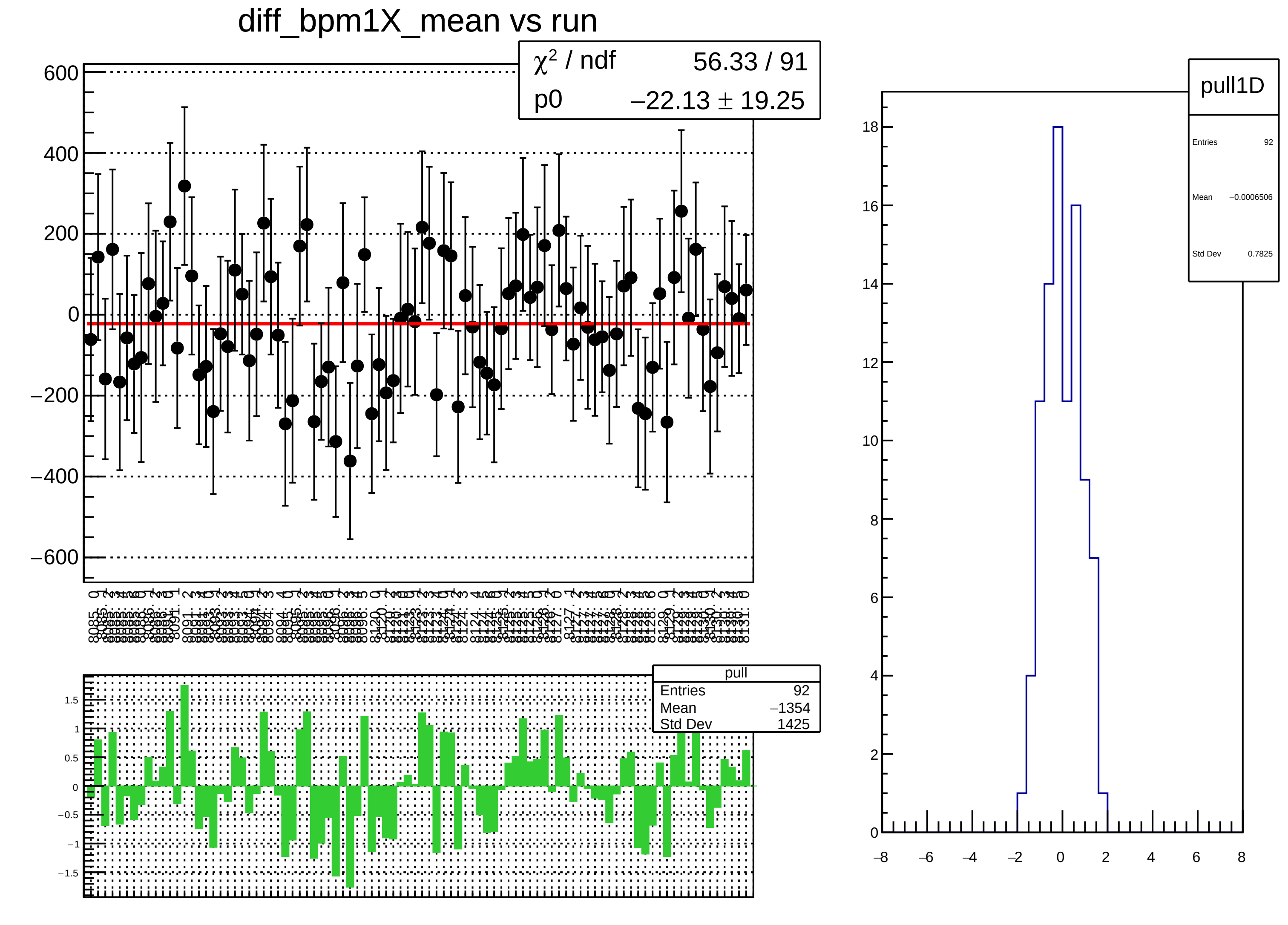
diff_bpm4ecX_mean vs run
χ^2 / ndf 55.42 / 91
p0 −23.64 ± 20.76
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean −822
Std Dev 887.7
pull1D
Entries 92
Mean −0.001314
Std Dev 0.7762


diff_bpm4ecX_rms vs run
χ^2 / ndf 4027 / 91
p0 1.99e+04 ± 14.68
27000
26000
25000
24000
23000
22000
21000
20000
19000
18000

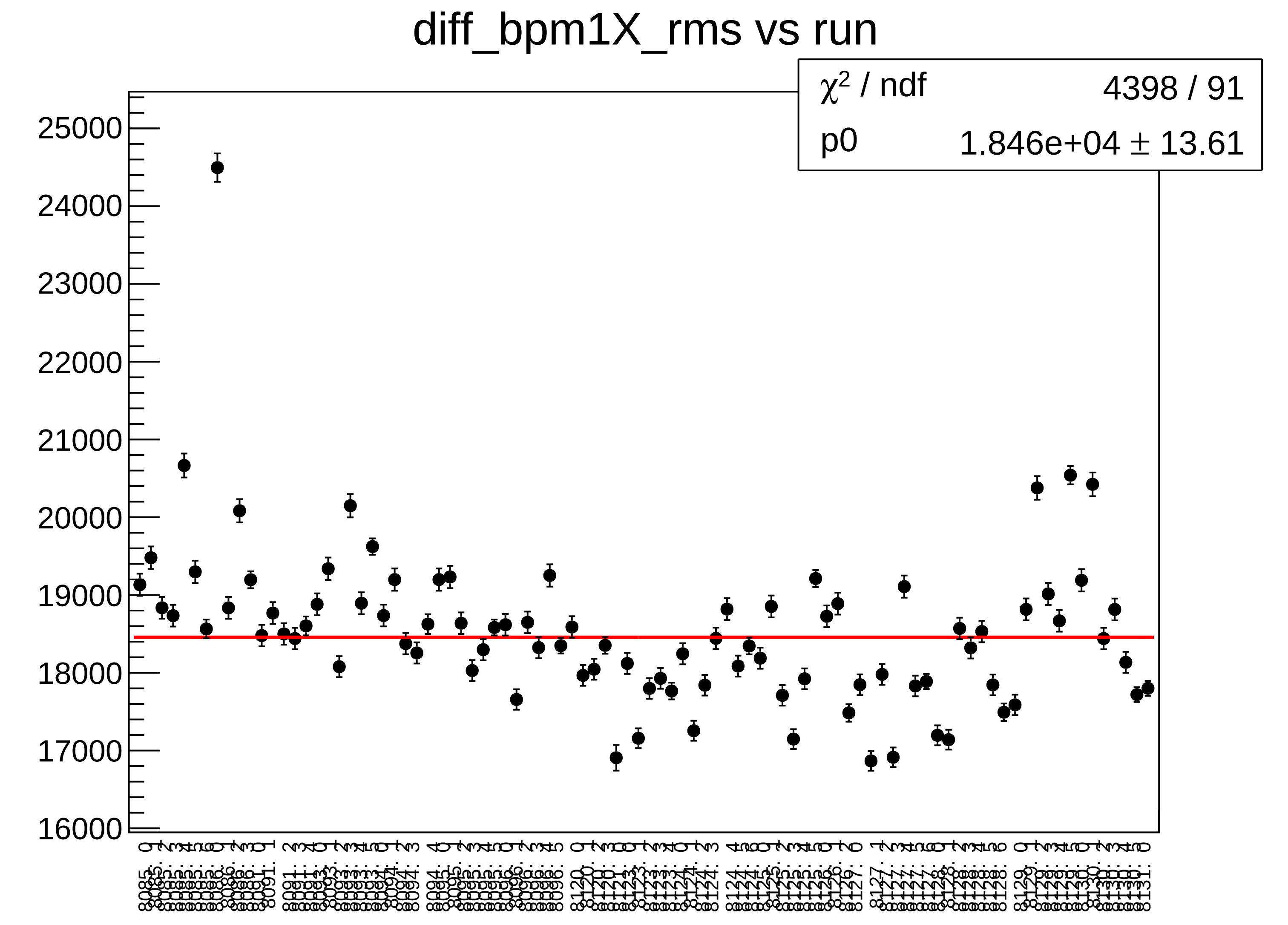

diff_bpm4ecY_mean vs run
χ^2 / ndf 97.07 / 91
p0 2.594 ± 6.22
pull
Entries 92
Mean −4.923
Std Dev 40.23
pull1D
Entries 92
Mean 0.01267
Std Dev 1.027



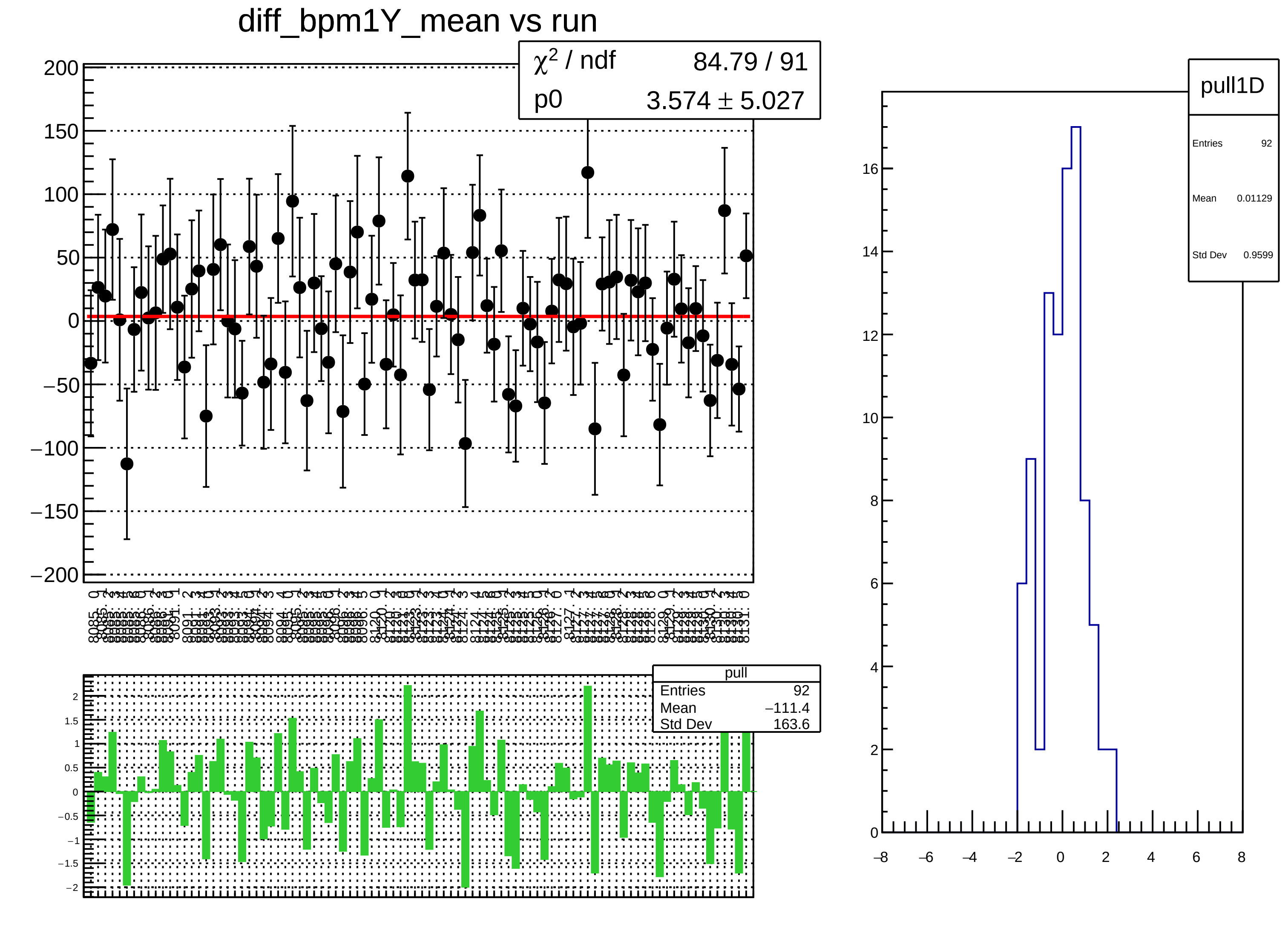
diff_bpm4ecY_rms vs run
χ^2 / ndf 3.703e+04 / 91
p0 5910 ± 4.398
8500
8000
7500
7000
6500
6000
5500
5000
4500



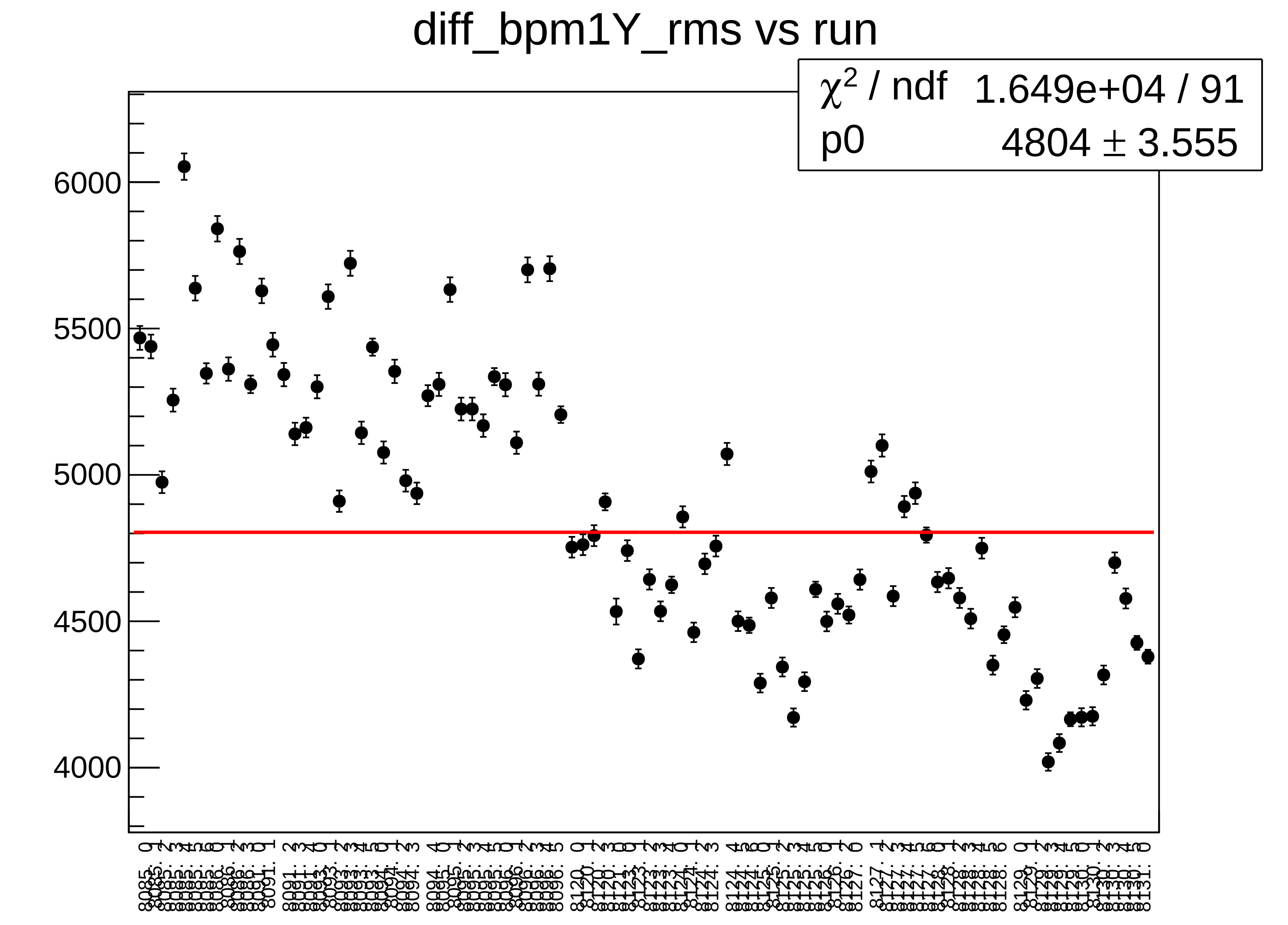
diff_bpm1X_mean vs run
χ2 / ndf 56.33 / 91
p0 −22.13 ± 19.25
pull
Entries 92
Mean −1354
Std Dev 1425
pull1D
Entries 92
Mean −0.0006506
Std Dev 0.7825



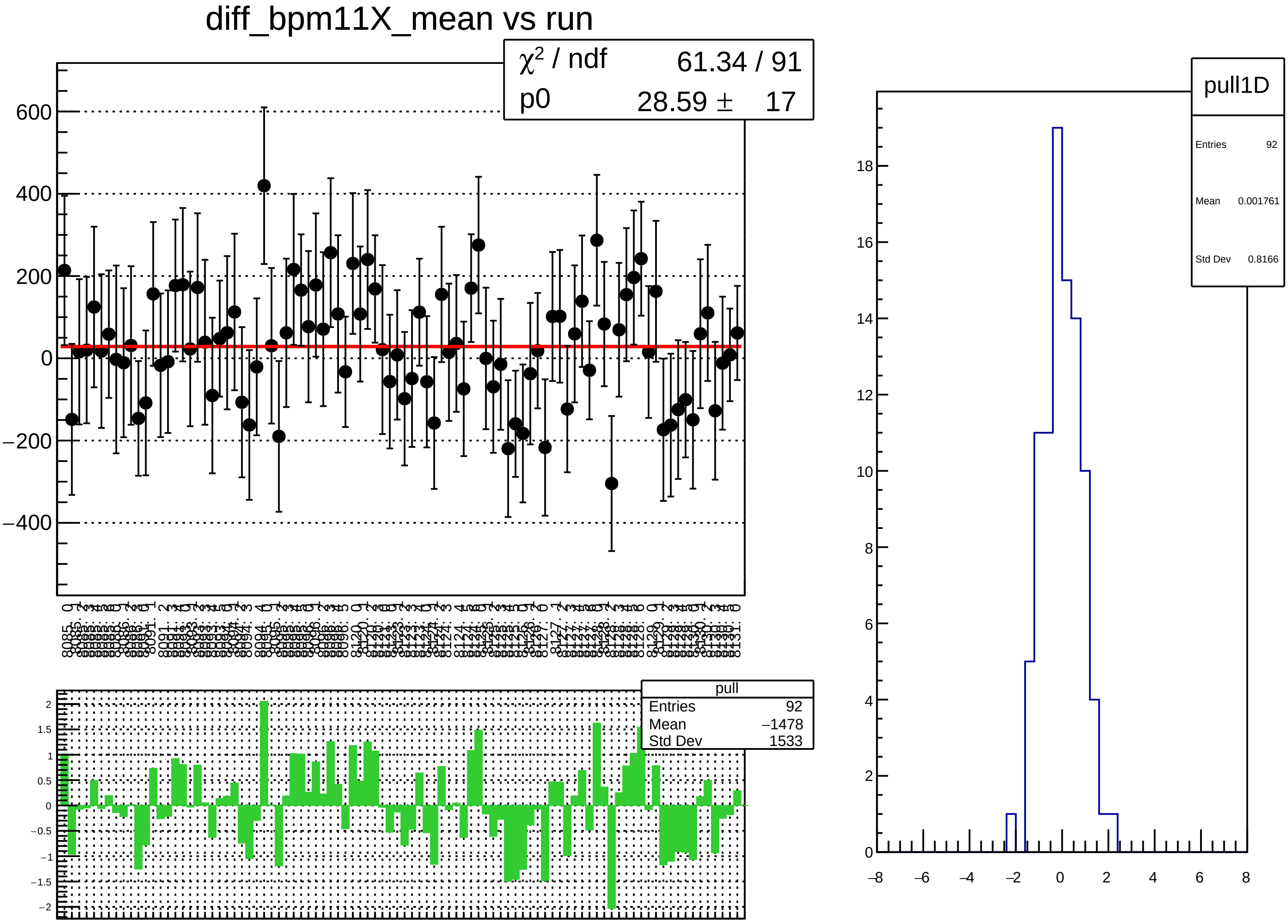
diff_bpm1X_rms vs run
χ^2 / ndf 4398 / 91
p0 1.846e+04 ± 13.61
25000
24000
23000
22000
21000
20000
19000
18000
17000
16000

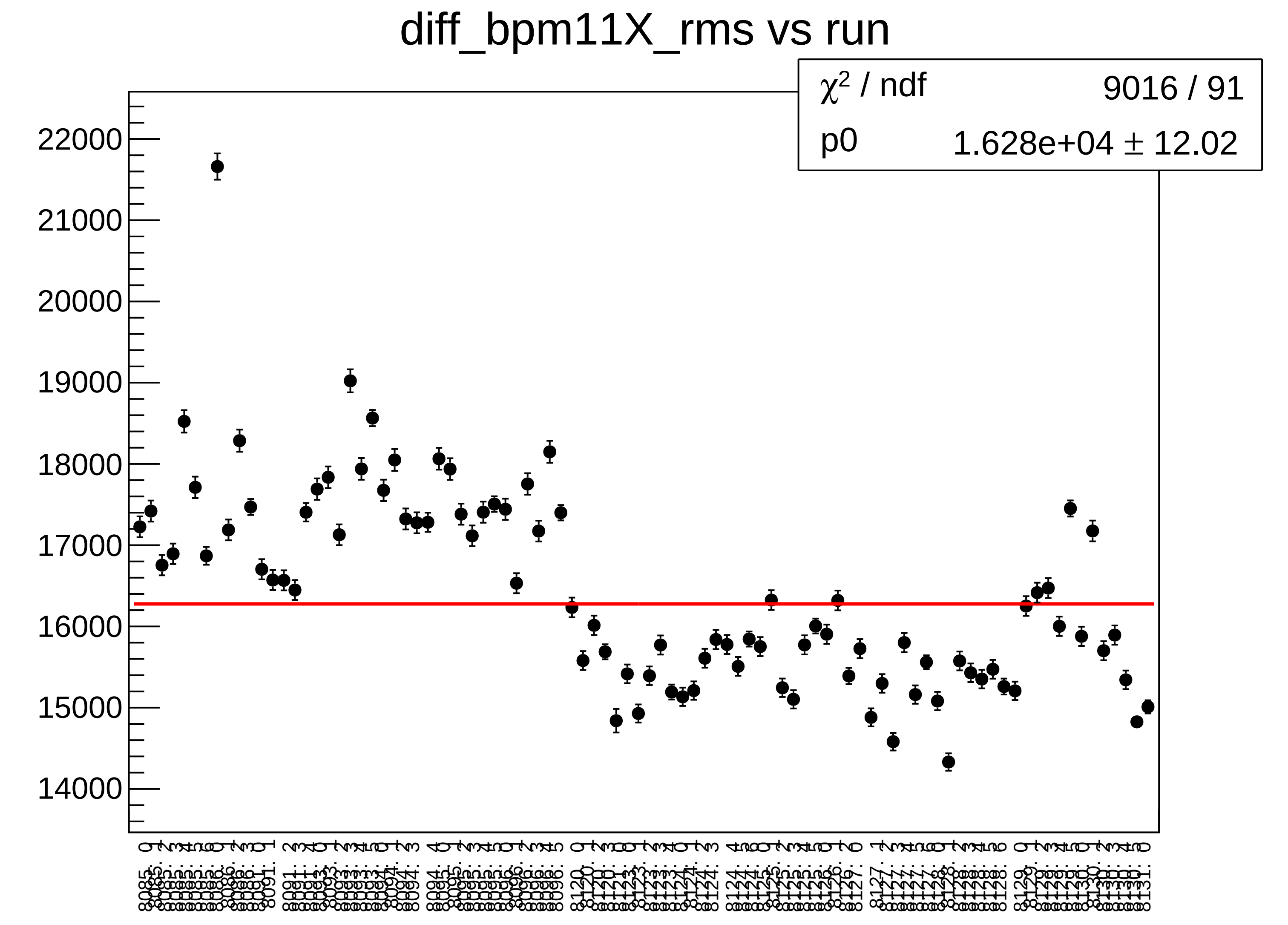


diff_bpm1Y_mean vs run
χ^2 / ndf 84.79 / 91
p0 3.574 ± 5.027
pull
Entries 92
Mean −111.4
Std Dev 163.6
pull1D
Entries 92
Mean 0.01129
Std Dev 0.9599

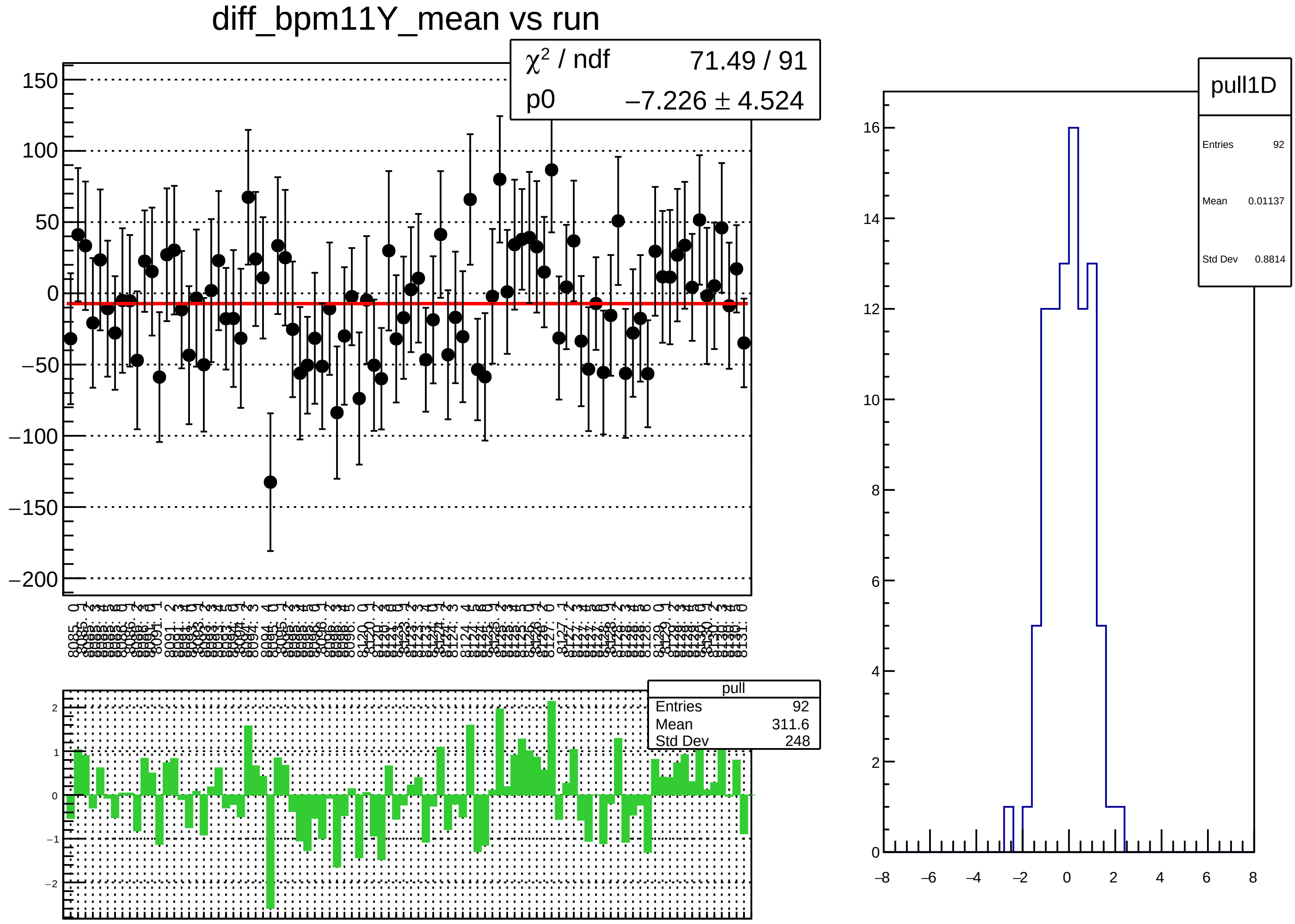


diff_bpm1Y_rms vs run
χ^2 / ndf 1.649e+04 / 91
p0 4804 ± 3.555
6000
5500
5000
4500
4000

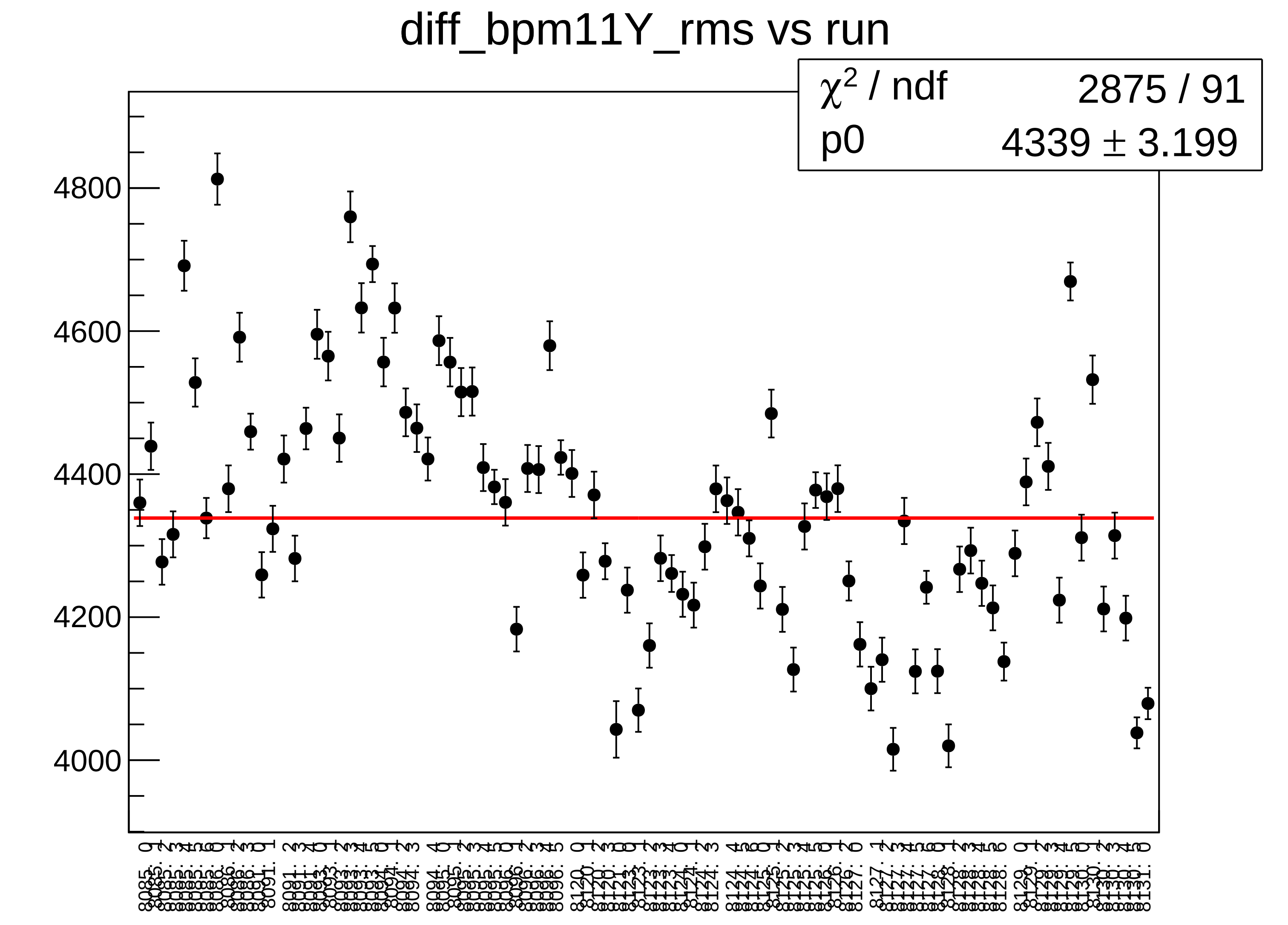

diff_bpm11X_mean vs run
χ^2 / ndf 61.34 / 91
p0 28.59 ± 17
pull
Entries 92
Mean −1478
Std Dev 1533
pull1D
Entries 92
Mean 0.001761
Std Dev 0.8166



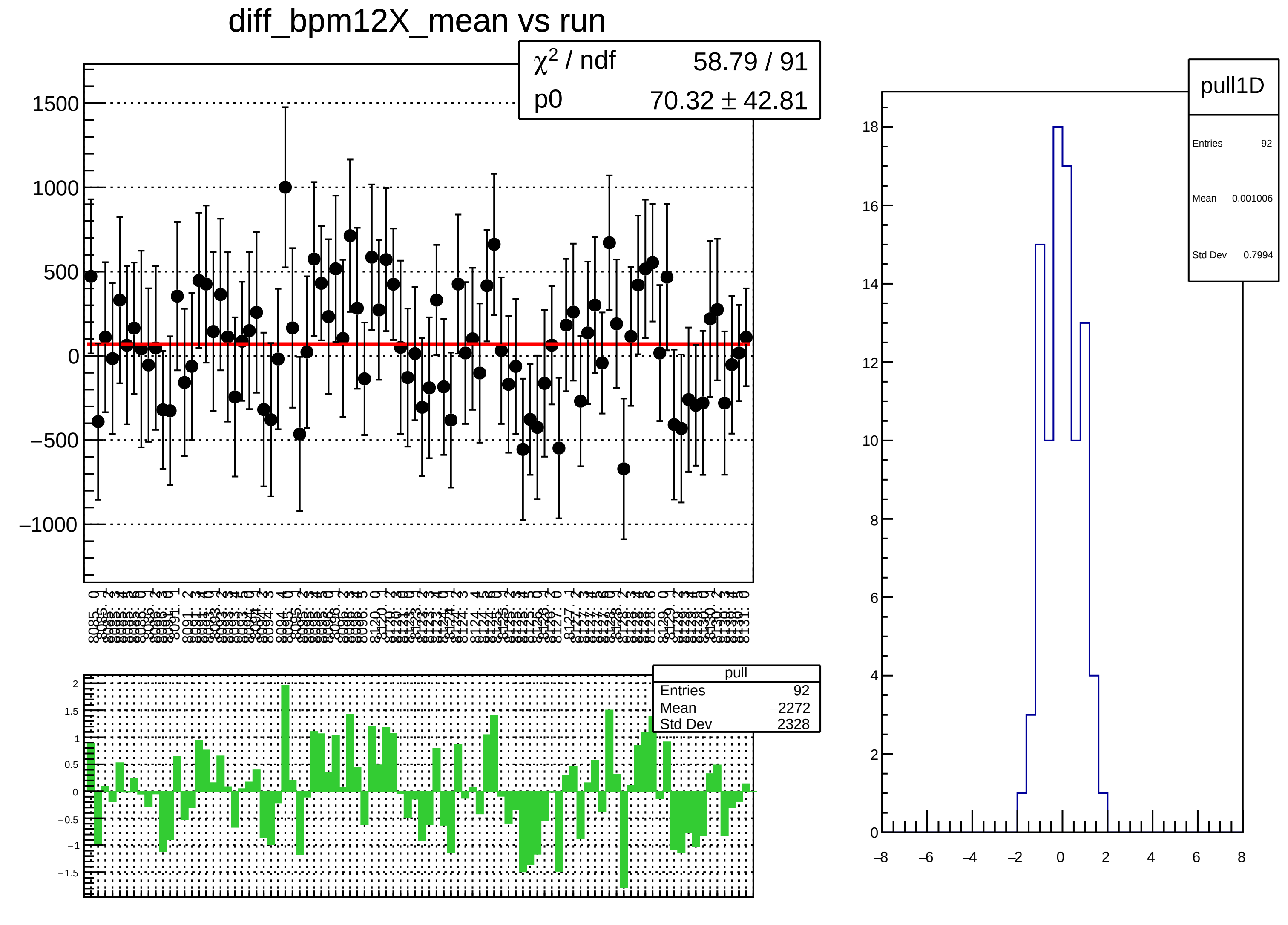
diff_bpm11X_rms vs run
χ^2 / ndf 9016 / 91
p0 1.628e+04 ± 12.02
22000
21000
20000
19000
18000
17000
16000
15000
14000



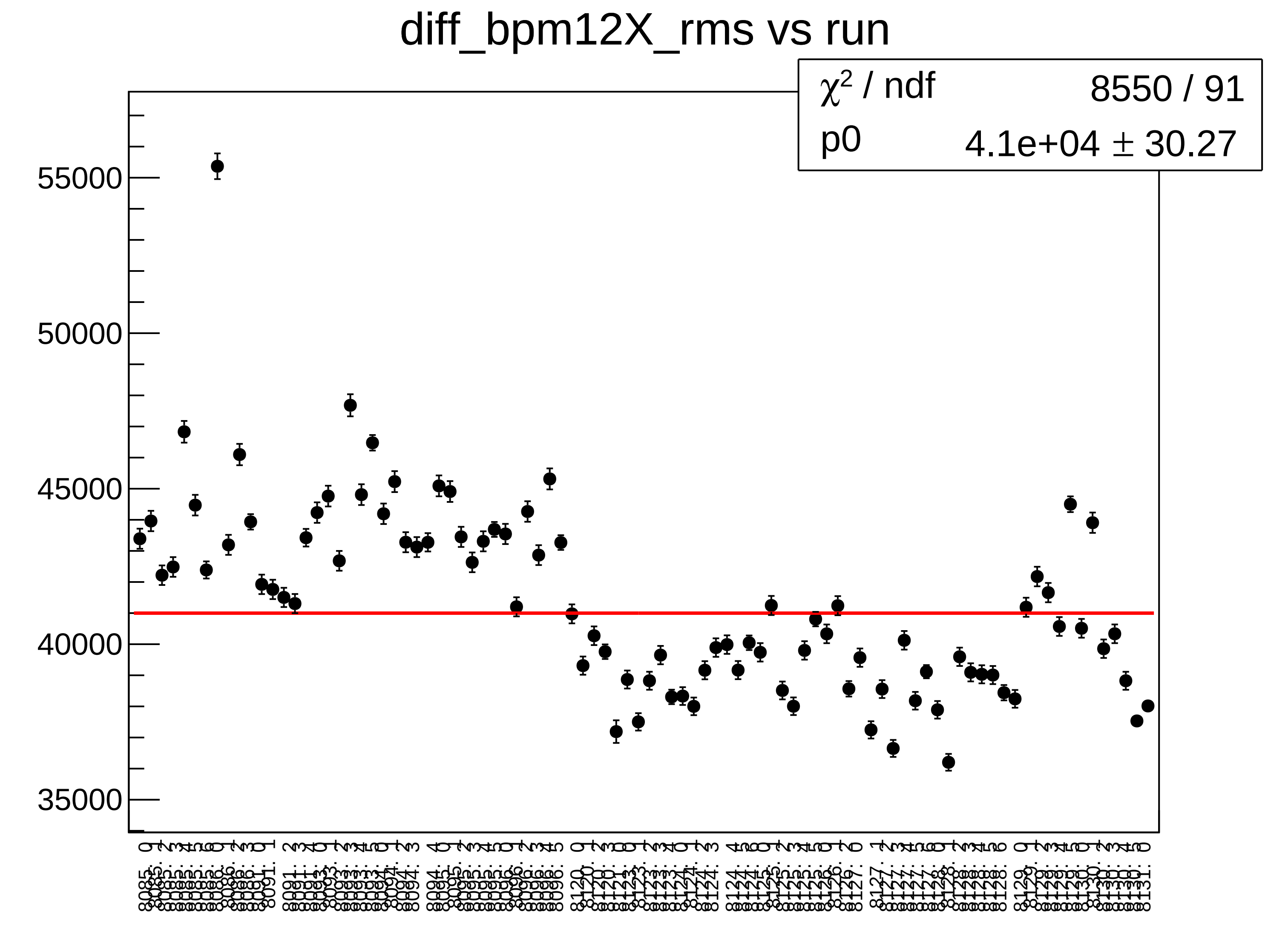
diff_bpm11Y_mean vs run
χ2 / ndf 71.49 / 91
p0 −7.226 ± 4.524
pull
Entries 92
Mean 311.6
Std Dev 248
pull1D
Entries 92
Mean 0.01137
Std Dev 0.8814

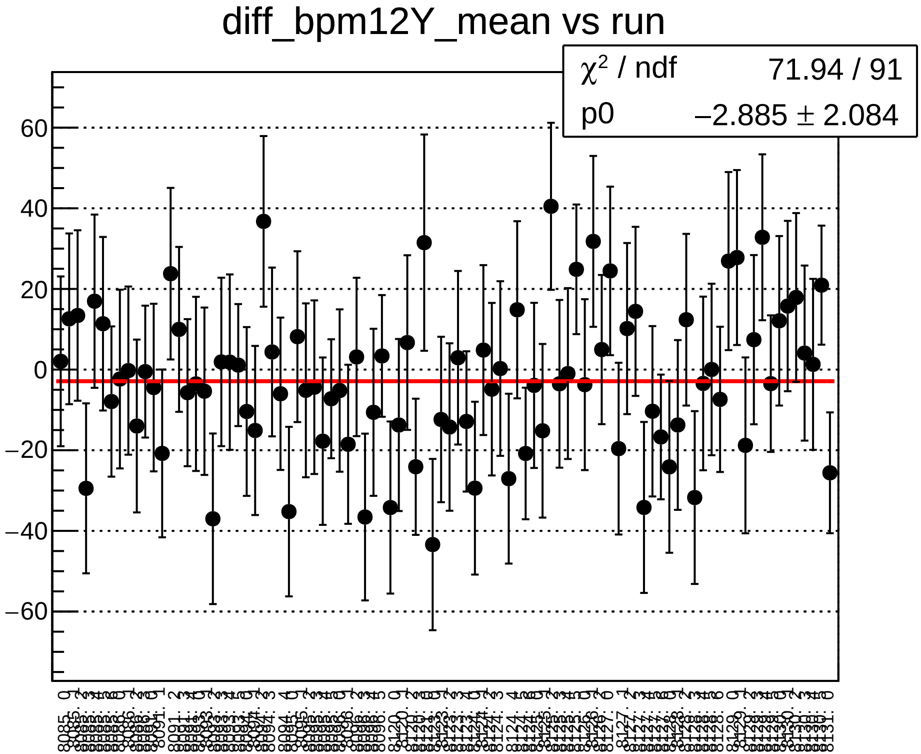


diff_bpm11Y_rms vs run
χ2 / ndf 2875 / 91
p0 4339 ± 3.199
4800
4600
4400
4200
4000

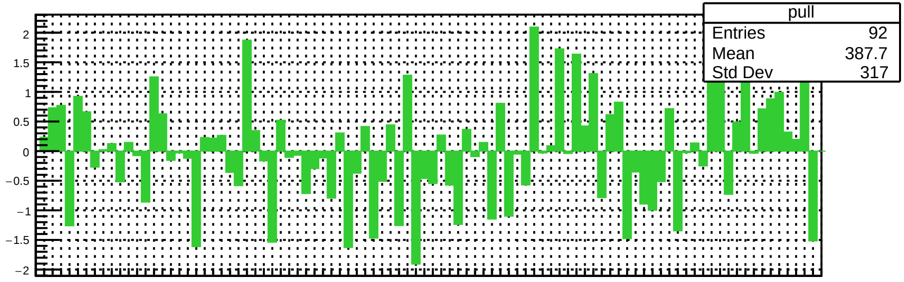


diff_bpm12X_mean vs run
χ^2 / ndf 58.79 / 91
p0 70.32 ± 42.81
pull
Entries 92
Mean −2272
Std Dev 2328
pull1D
Entries 92
Mean 0.001006
Std Dev 0.7994

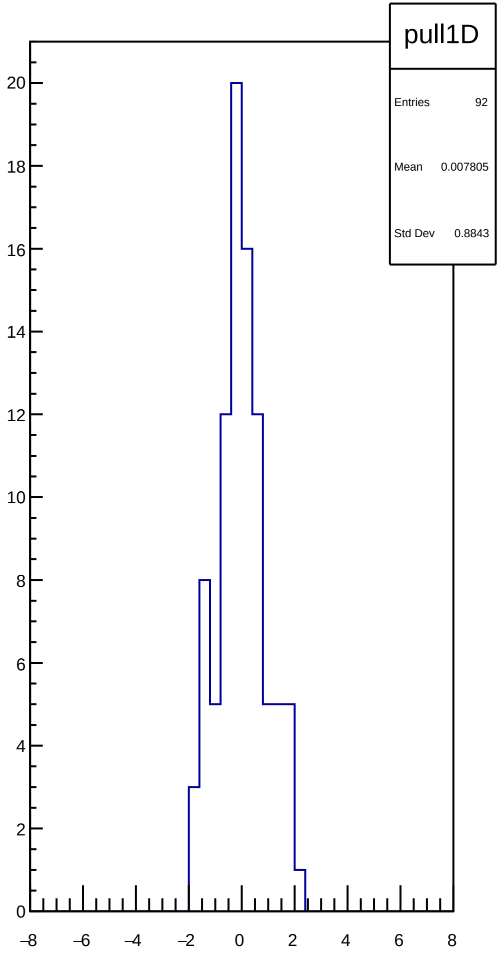

diff_bpm12X_rms vs run
χ2 / ndf 8550 / 91
p0 4.1e+04 ± 30.27
55000
50000
45000
40000
35000



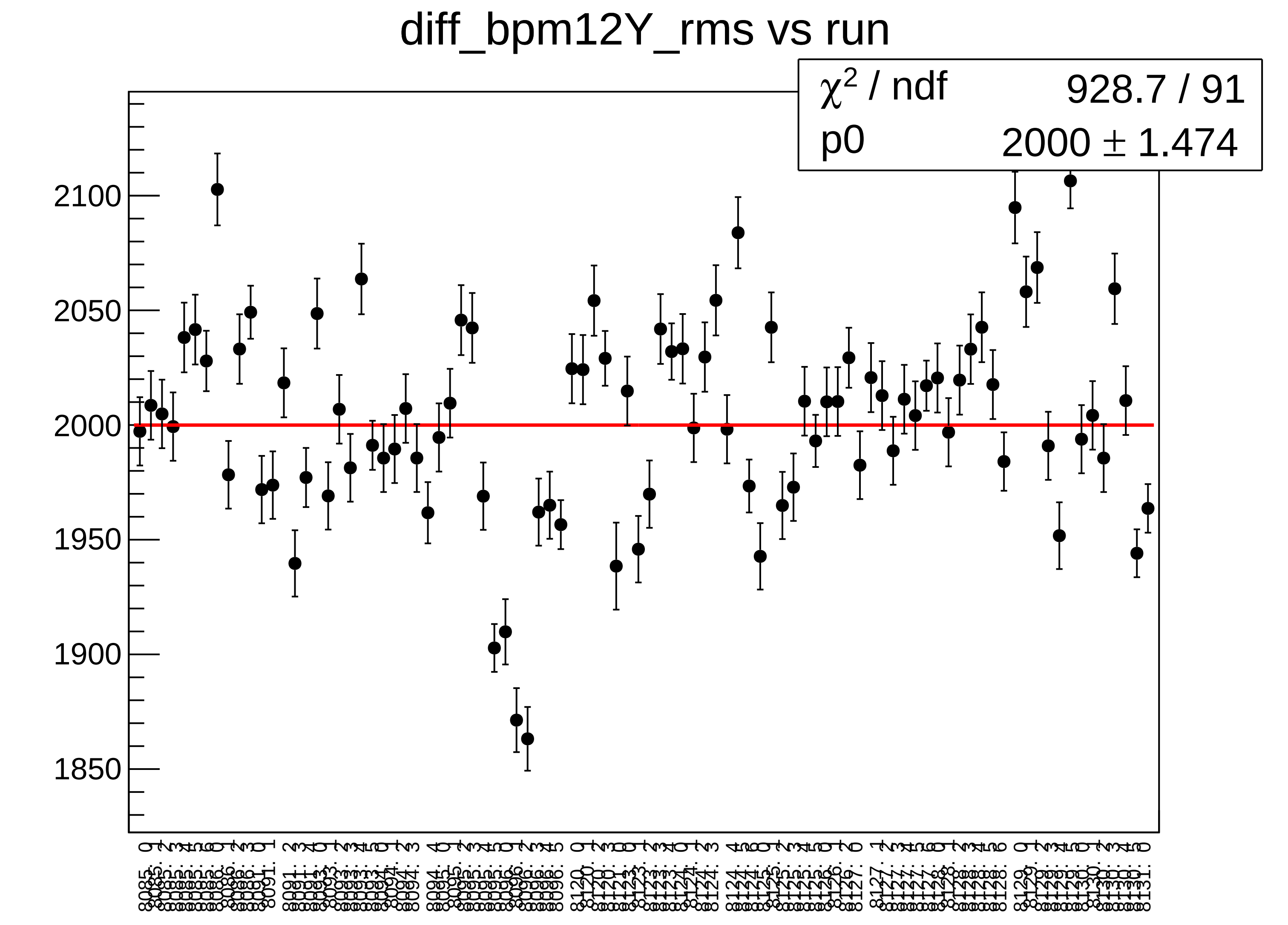
diff_bpm12Y_mean vs run
χ² / ndf 71.94 / 91
p0 −2.885 ± 2.084
60
40
20
0
−20
−40
−60



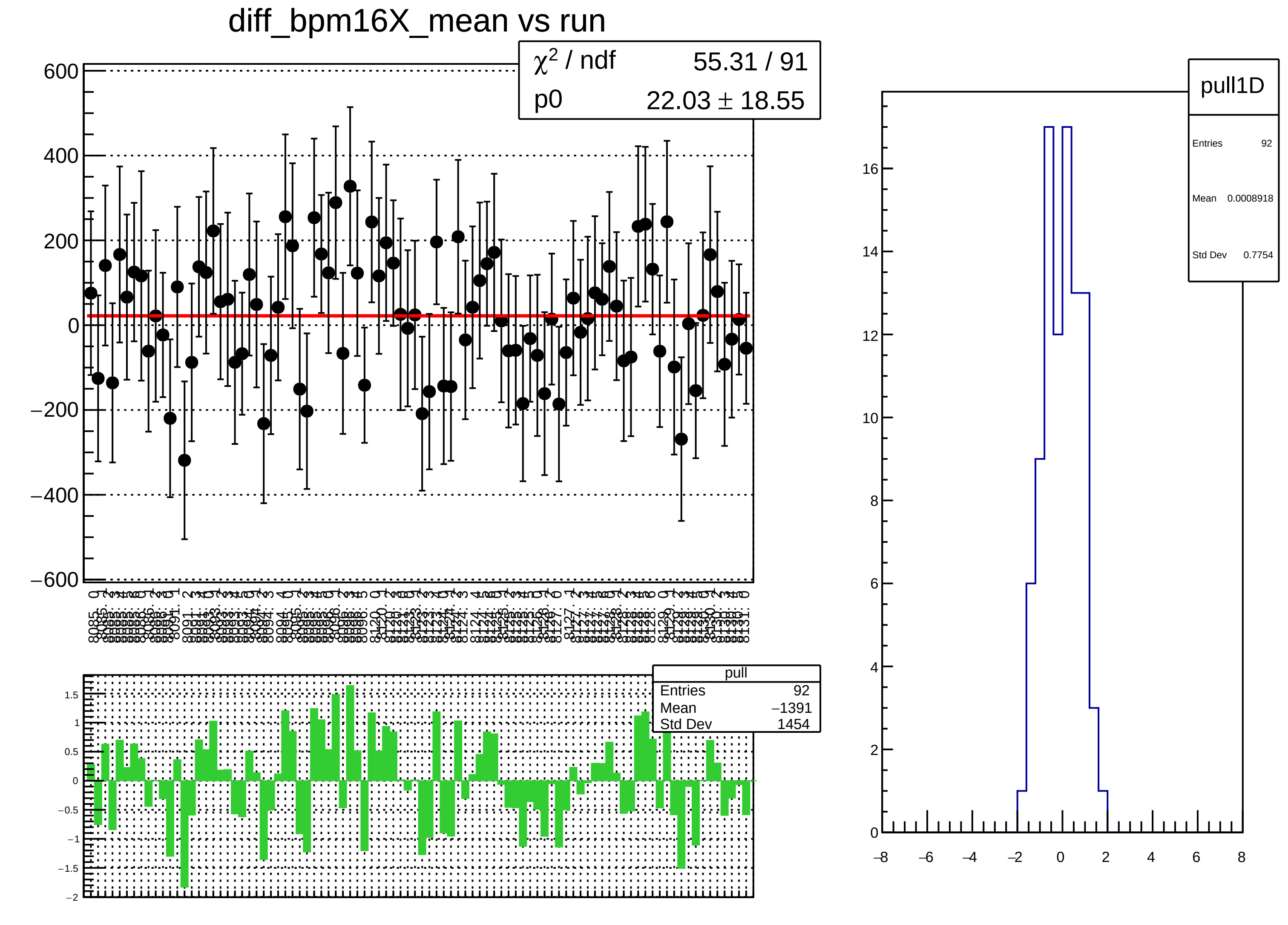
pull
Entries 92
Mean 387.7
Std Dev 317



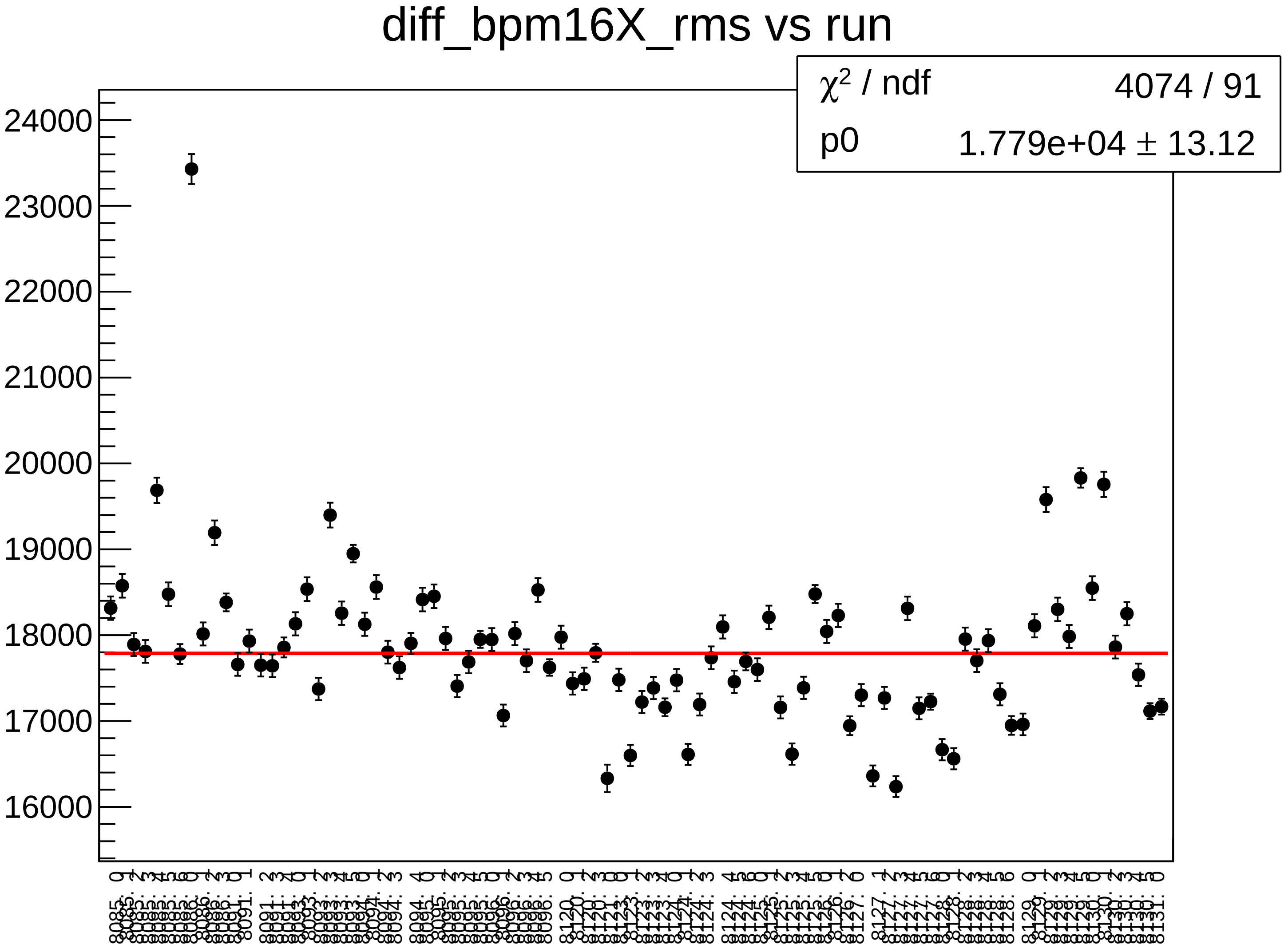
pull1D
Entries 92
Mean 0.007805
Std Dev 0.8843



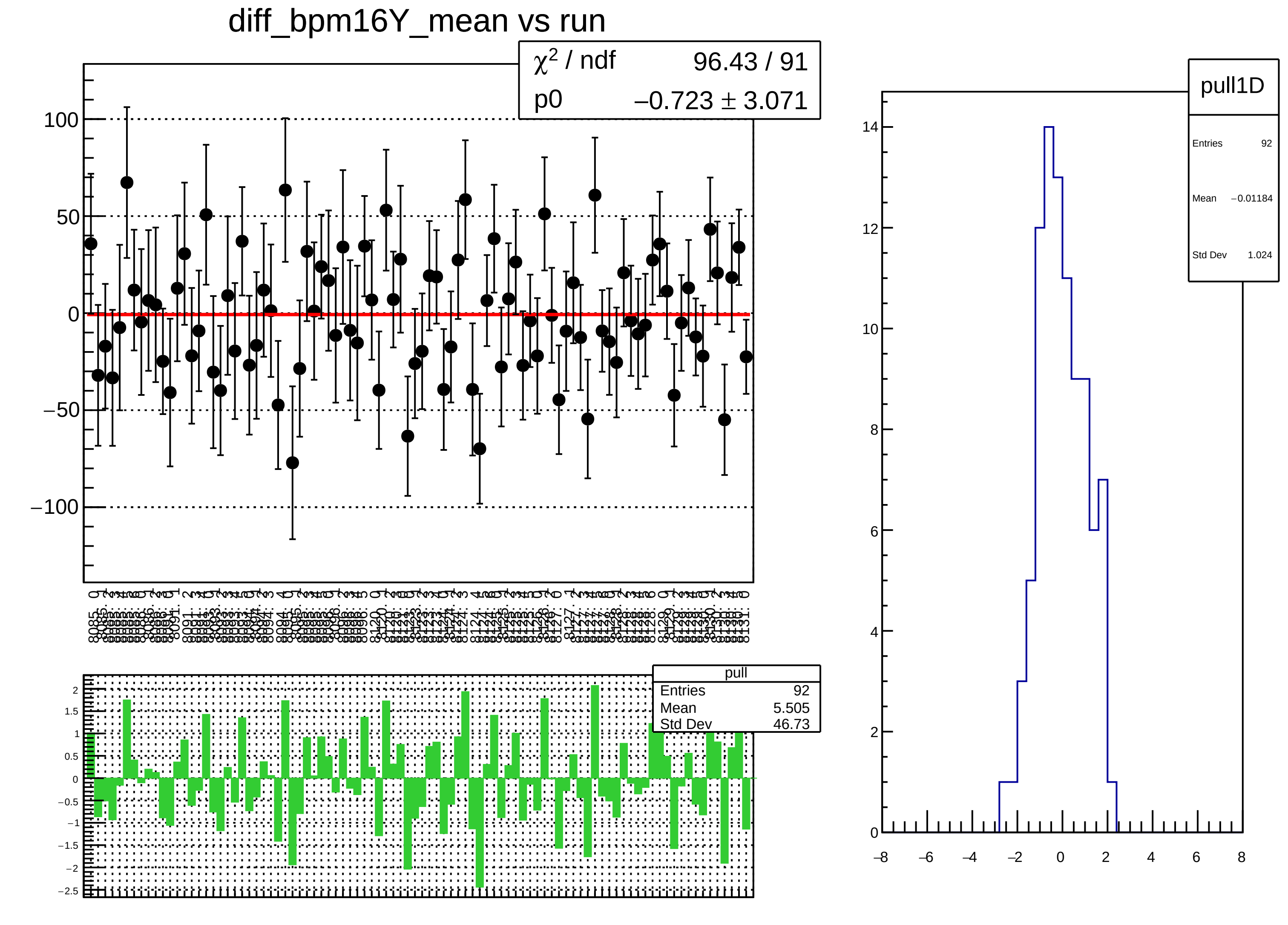
diff_bpm12Y_rms vs run
χ^2 / ndf 928.7 / 91
p0 2000 ± 1.474
2100
2050
2000
1950
1900
1850



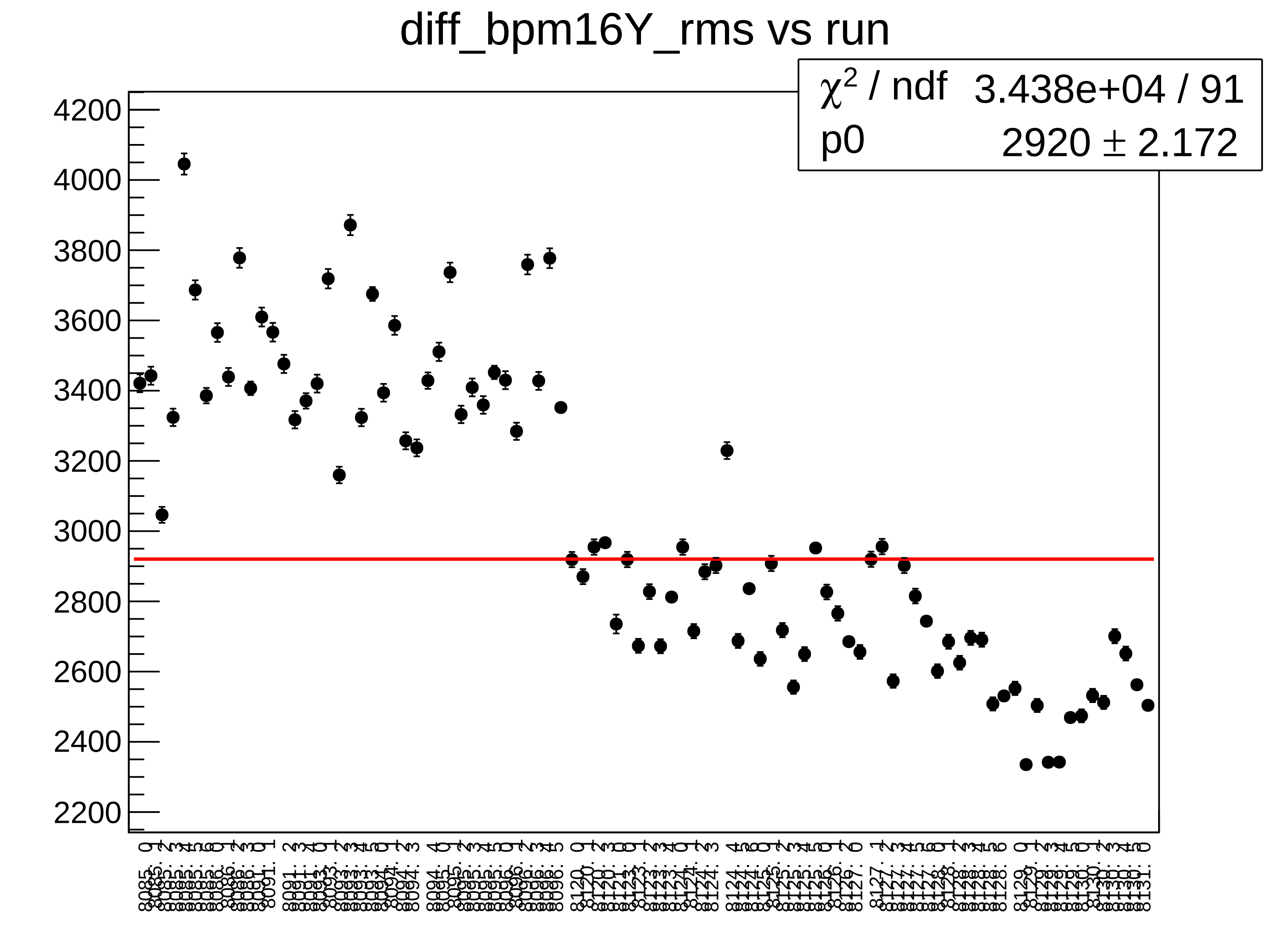
diff_bpm16X_mean vs run
χ^2 / ndf 55.31 / 91
p0 22.03 ± 18.55
pull
Entries 92
Mean −1391
Std Dev 1454
pull1D
Entries 92
Mean 0.0008918
Std Dev 0.7754



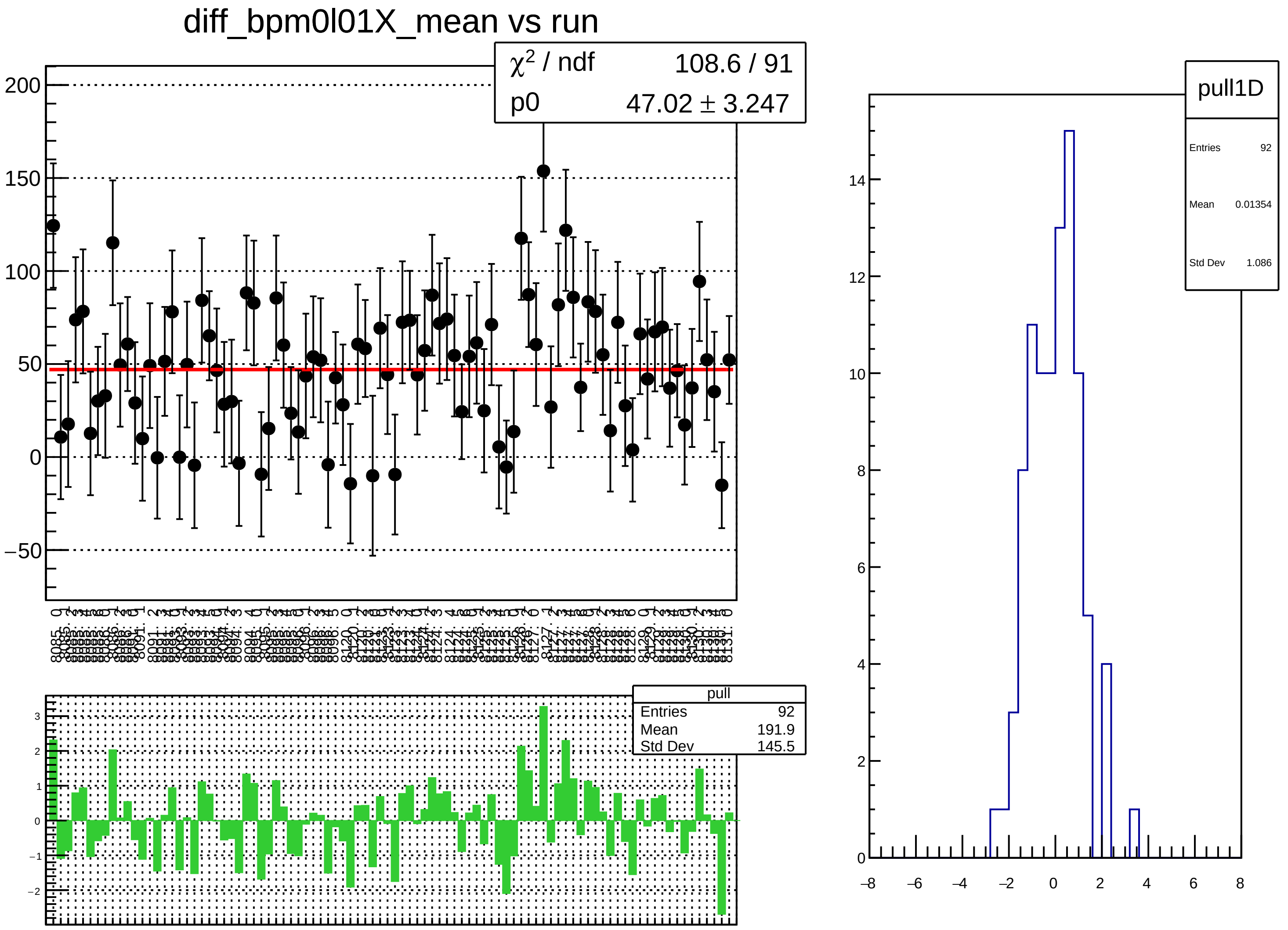
diff_bpm16X_rms vs run
χ^2 / ndf 4074 / 91
p0 1.779e+04 ± 13.12
24000
23000
22000
21000
20000
19000
18000
17000
16000



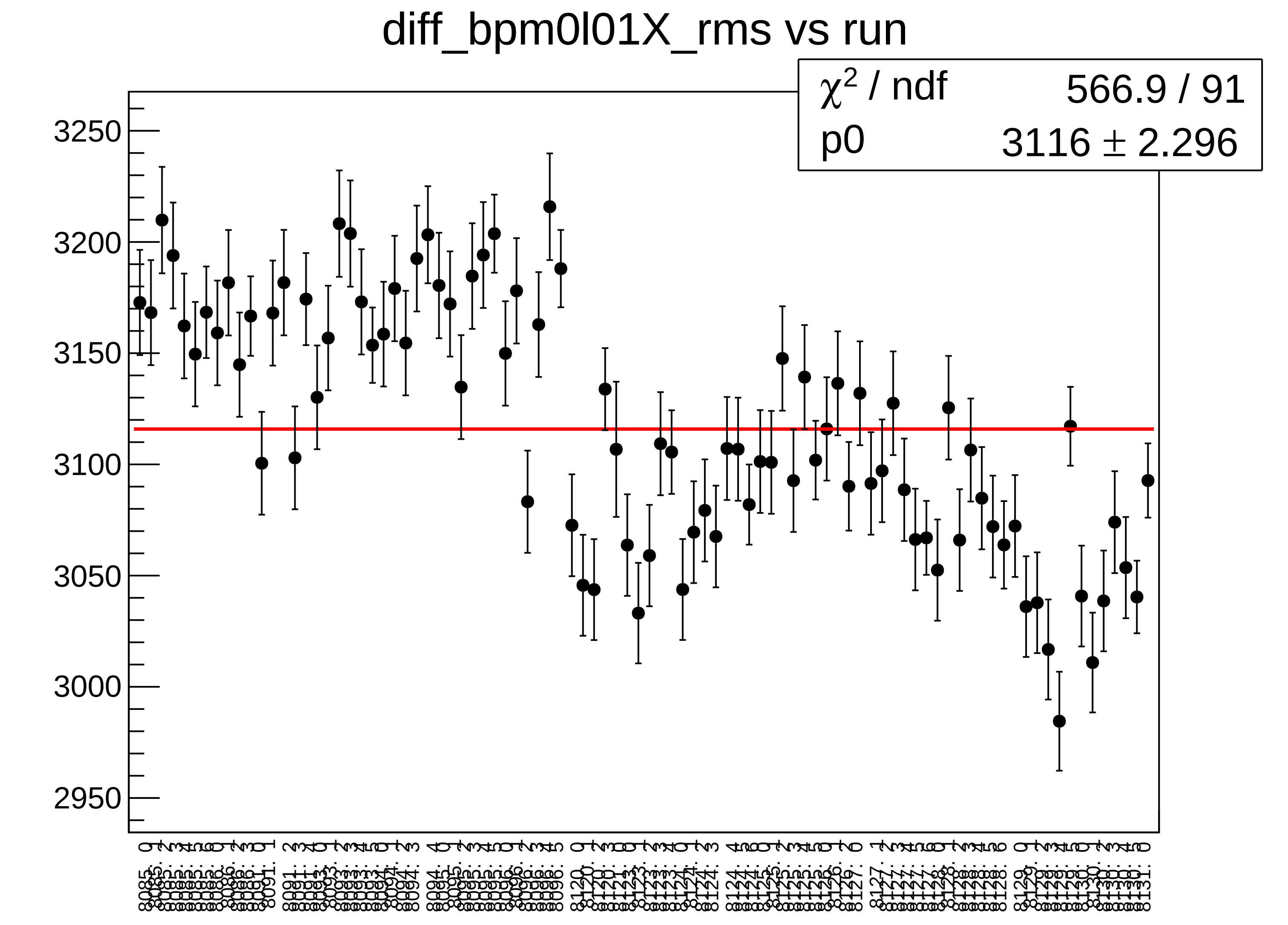
diff_bpm16Y_mean vs run
χ^2 / ndf 96.43 / 91
p0 −0.723 ± 3.071
100
50
0
−50
−100
pull
Entries 92
Mean 5.505
Std Dev 46.73
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.01184
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



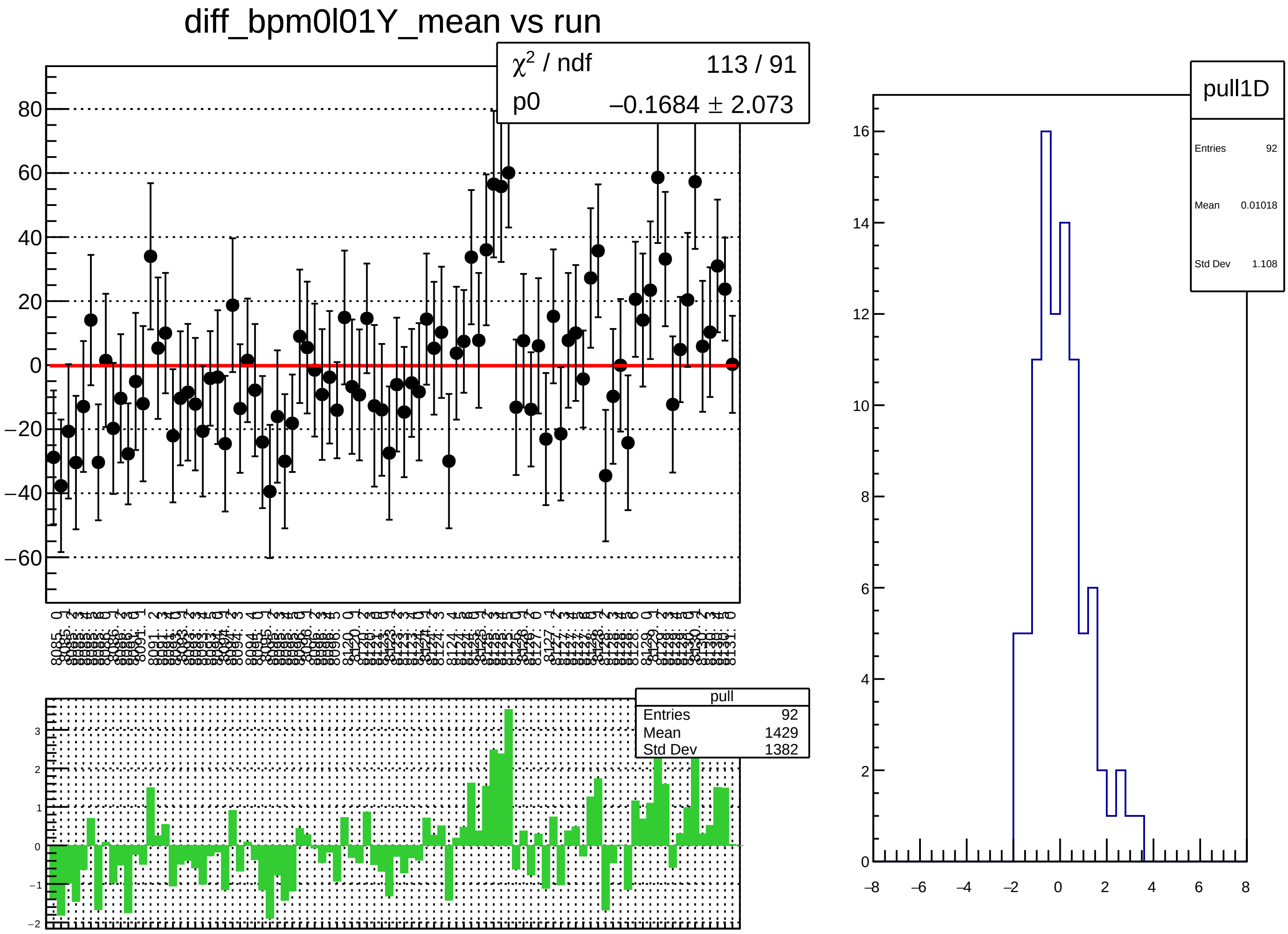
diff_bpm16Y_rms vs run
χ^2 / ndf 3.438e+04 / 91
p0 2920 ± 2.172
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

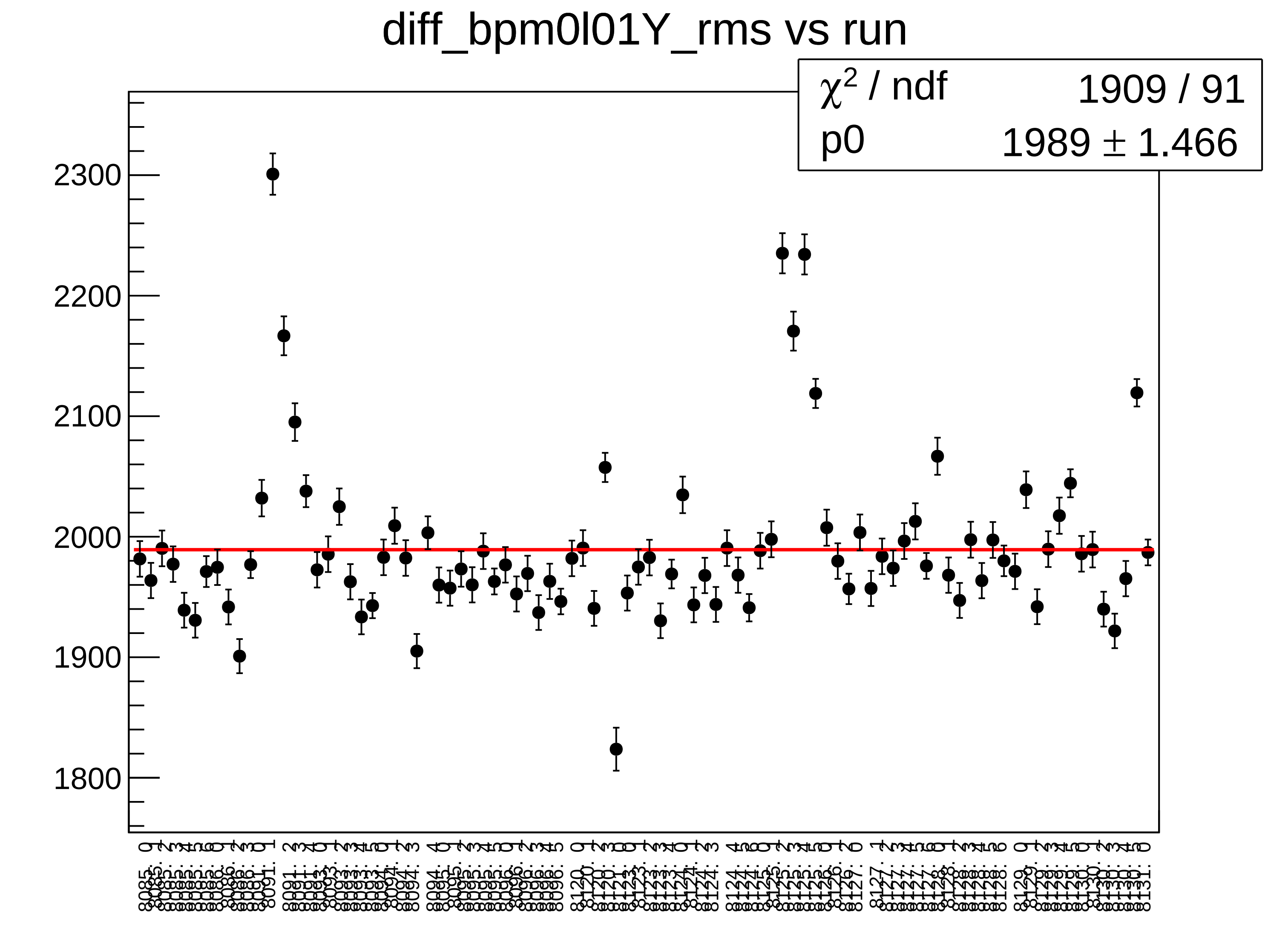


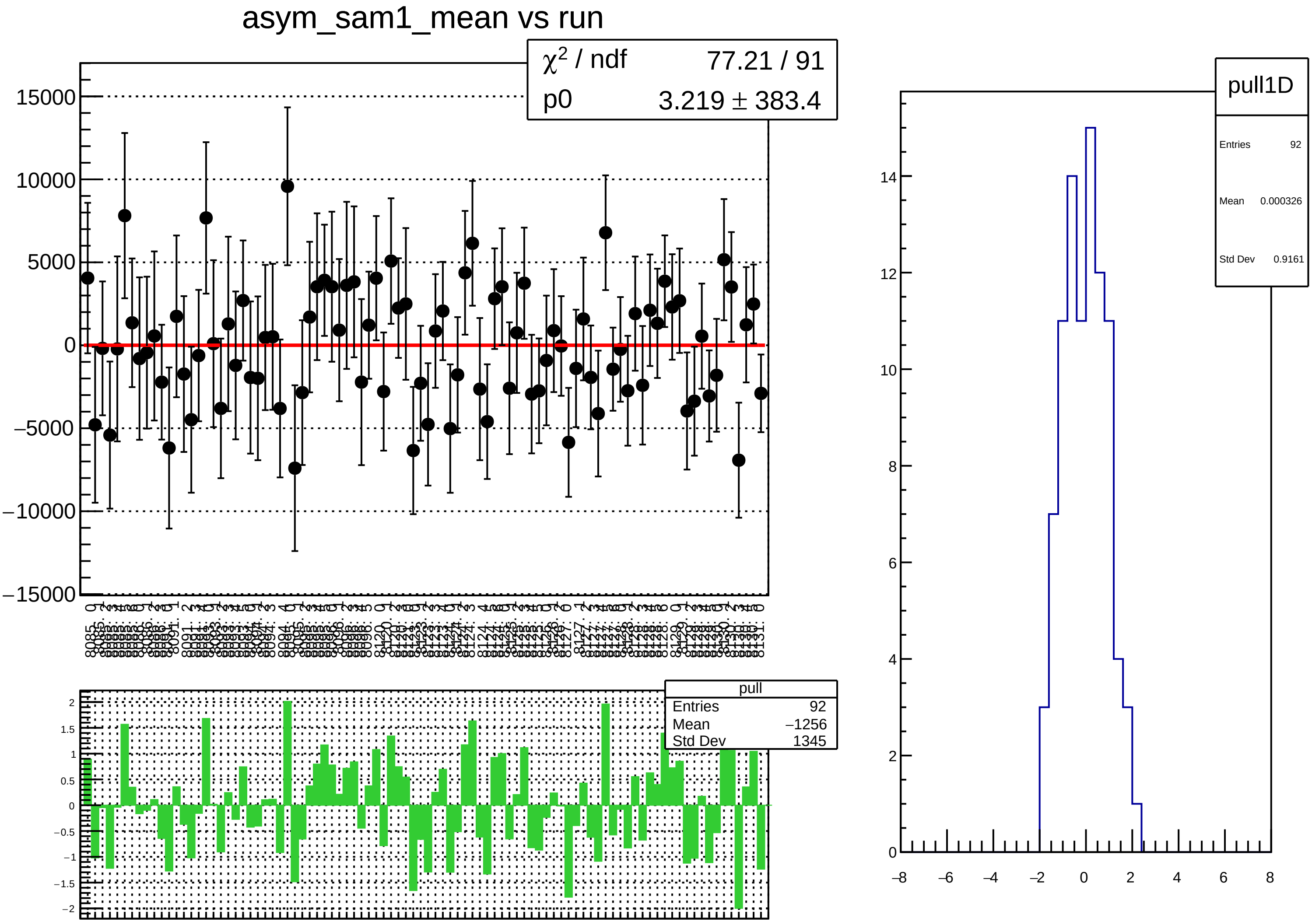
diff_bpm0l01X_mean vs run
χ^2 / ndf 108.6 / 91
p0 47.02 ± 3.247
pull
Entries 92
Mean 191.9
Std Dev 145.5
pull1D
Entries 92
Mean 0.01354
Std Dev 1.086



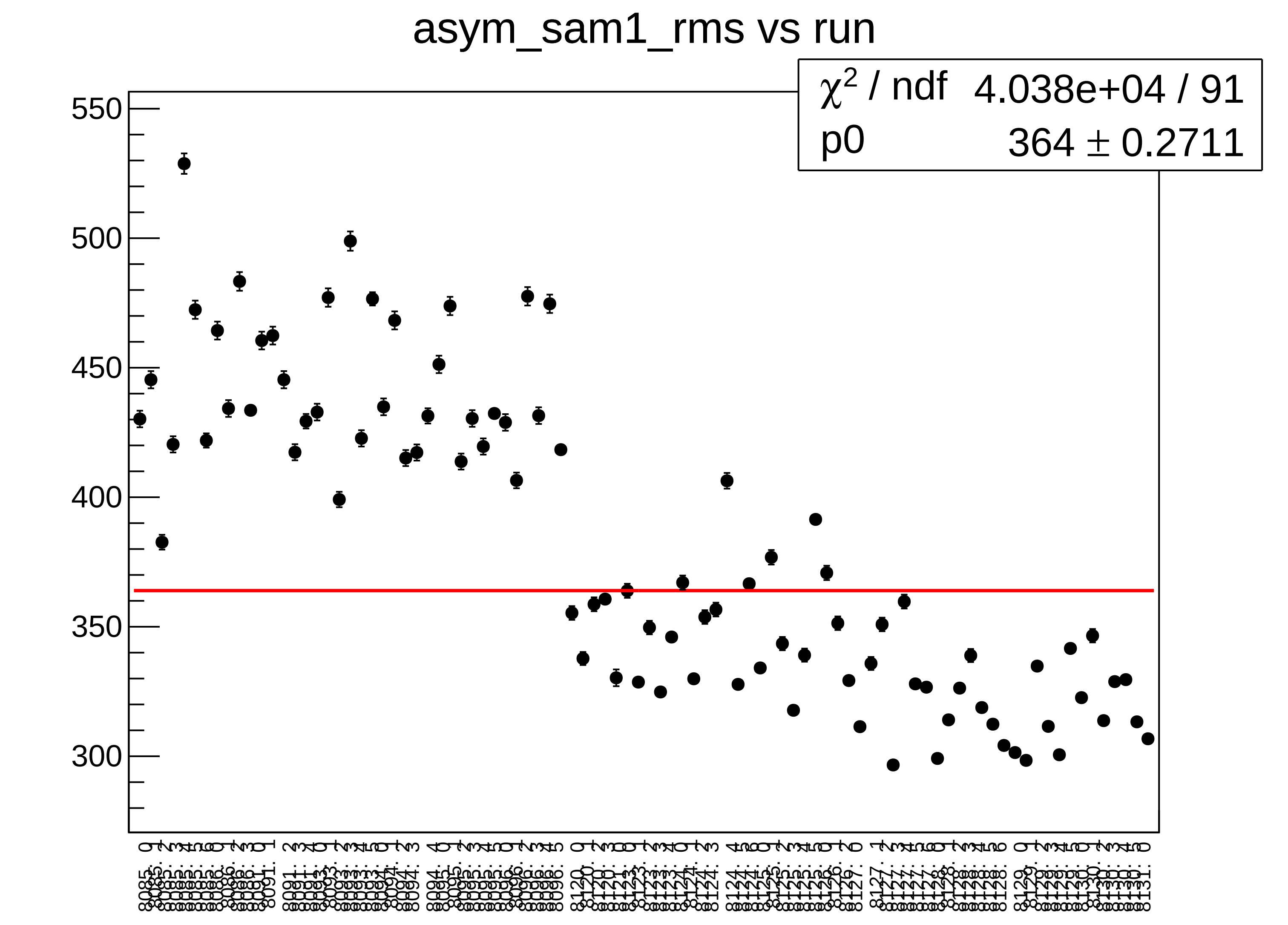
diff_bpm0l01X_rms vs run
χ^2 / ndf 566.9 / 91
p0 3116 ± 2.296

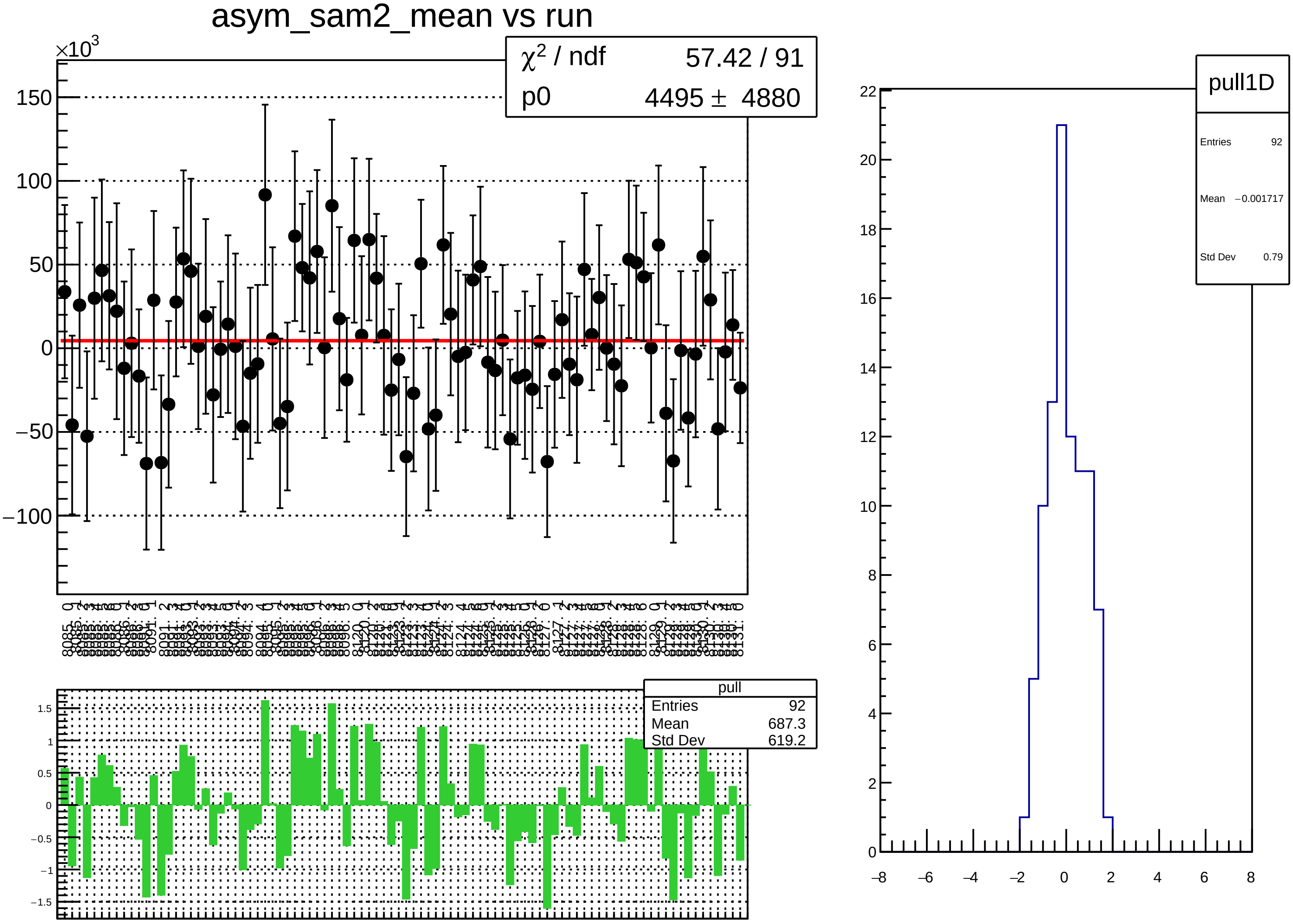

diff_bpm0l01Y_mean vs run
χ^2 / ndf 113 / 91
p0 −0.1684 ± 2.073
pull
Entries 92
Mean 1429
Std Dev 1382
pull1D
Entries 92
Mean 0.01018
Std Dev 1.108


diff_bpm0l01Y_rms vs run
χ2 / ndf 1909 / 91
p0 1989 ± 1.466
2300
2200
2100
2000
1900
1800

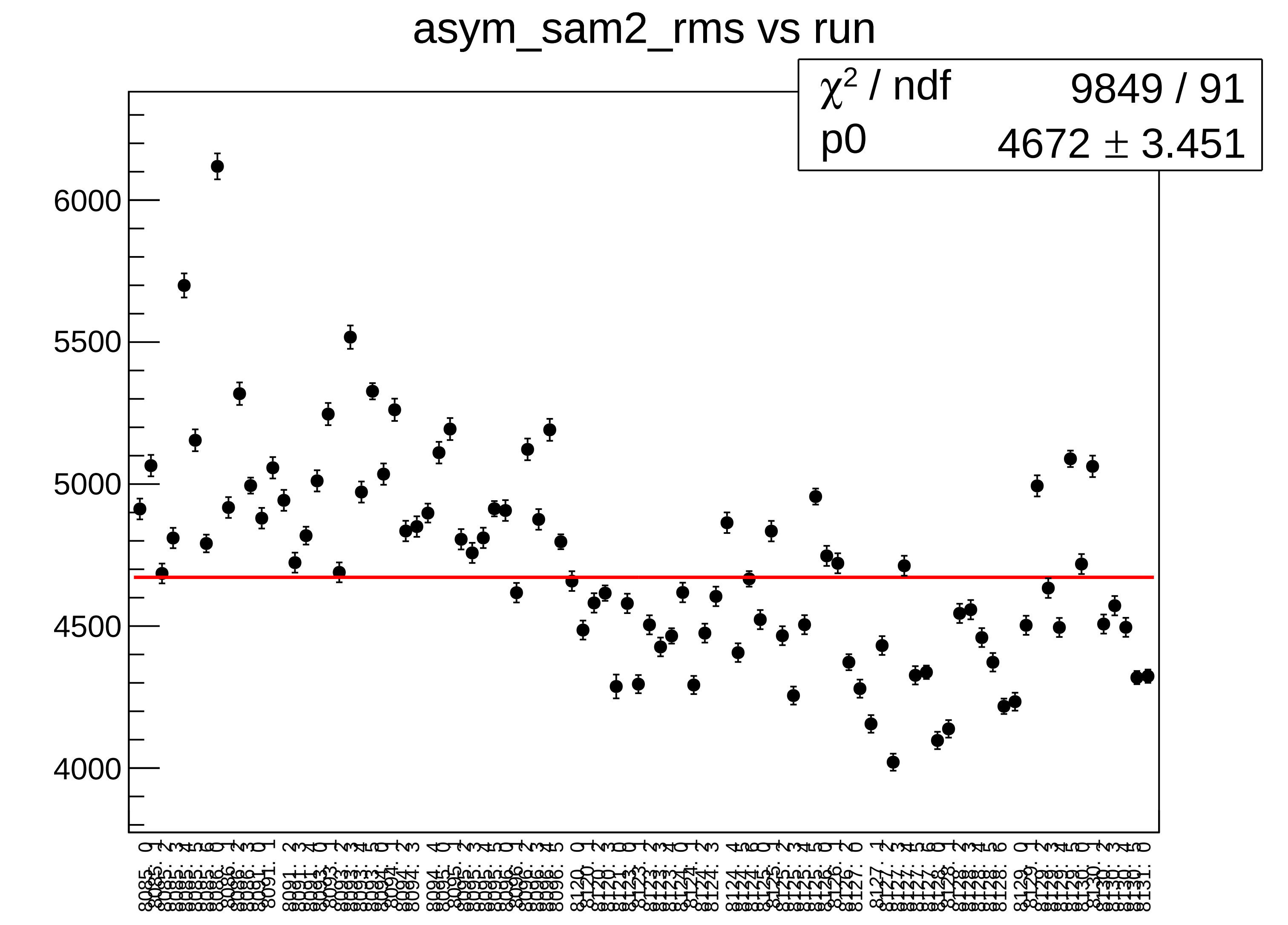


asym_sam1_mean vs run
χ^2 / ndf 77.21 / 91
p0 3.219 ± 383.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −1256
Std Dev 1345
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.000326
Std Dev 0.9161
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

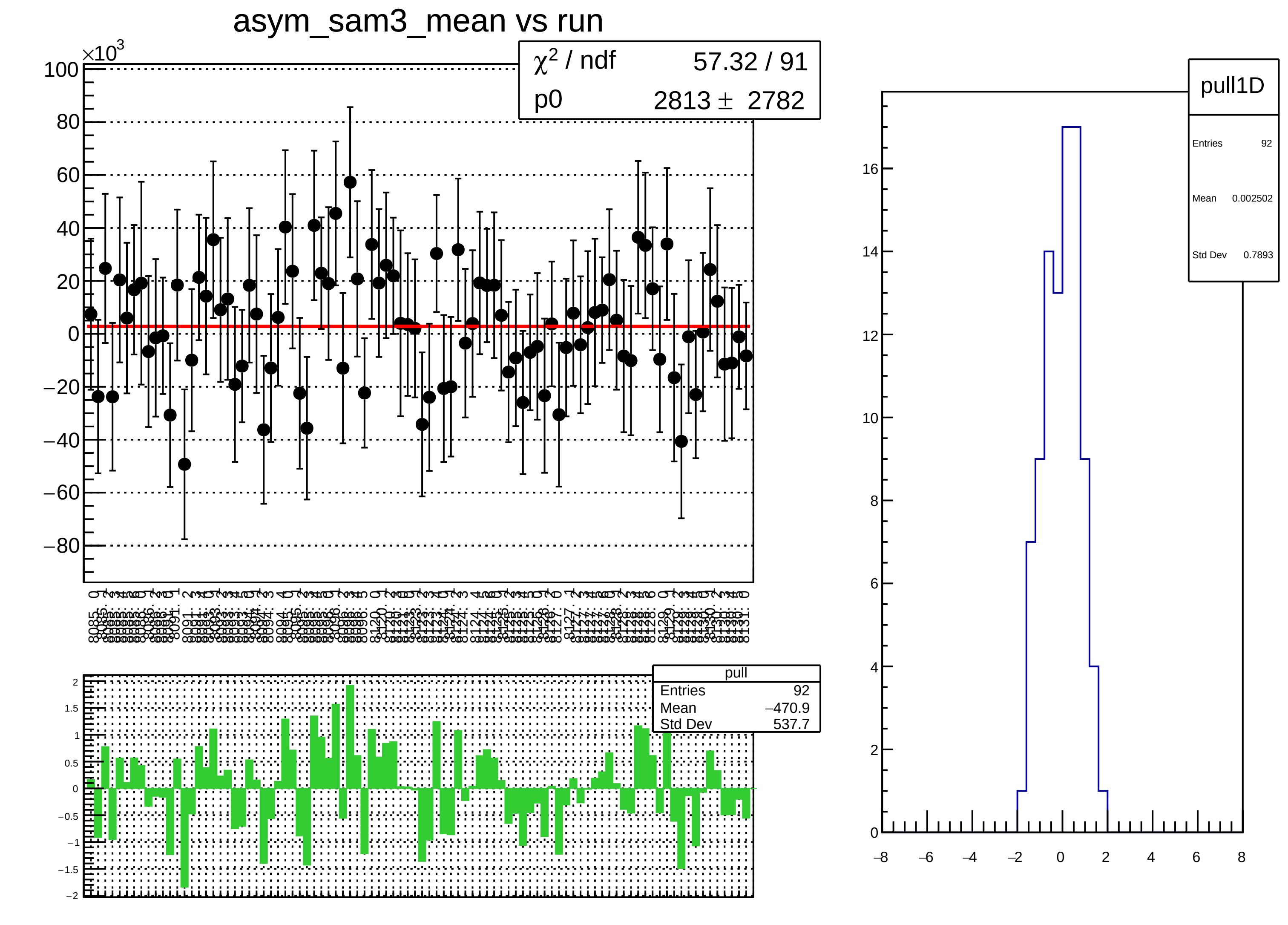

asym_sam1_rms vs run
χ^2 / ndf 4.038e+04 / 91
p0 364 ± 0.2711
550
500
450
400
350
300



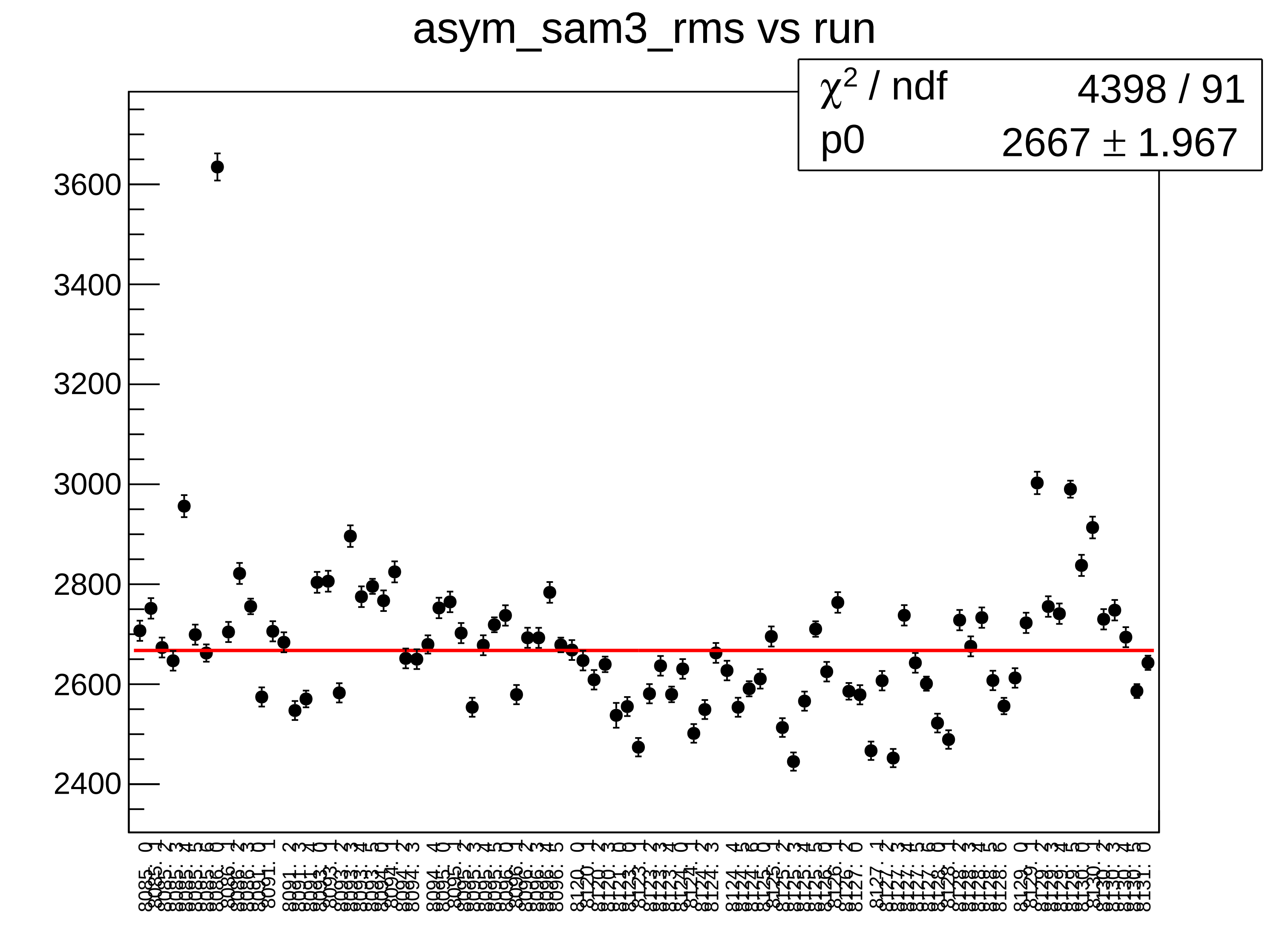
asym_sam2_mean vs run
χ^2 / ndf 57.42 / 91
p0 4495 ± 4880
pull
Entries 92
Mean 687.3
Std Dev 619.2
pull1D
Entries 92
Mean −0.001717
Std Dev 0.79

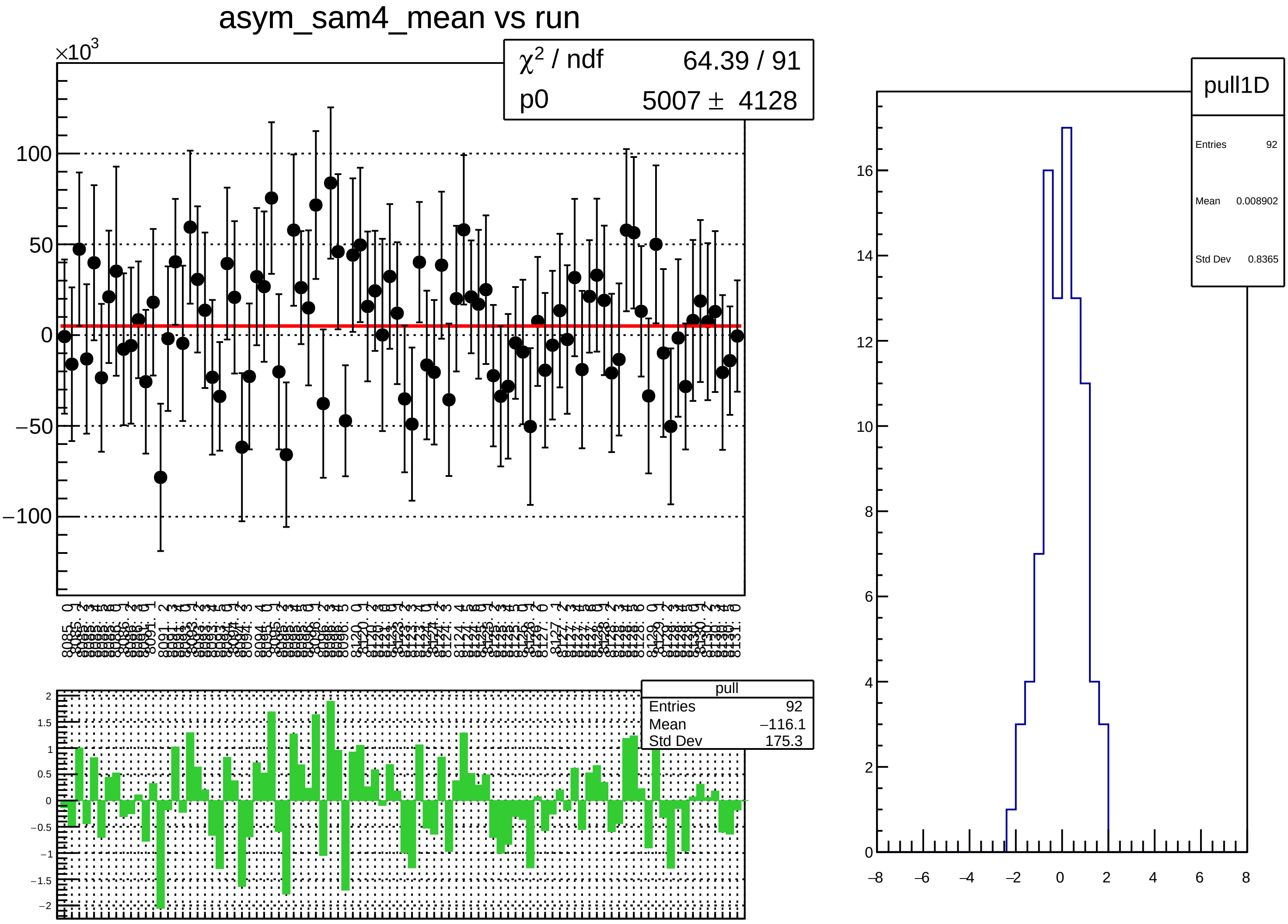


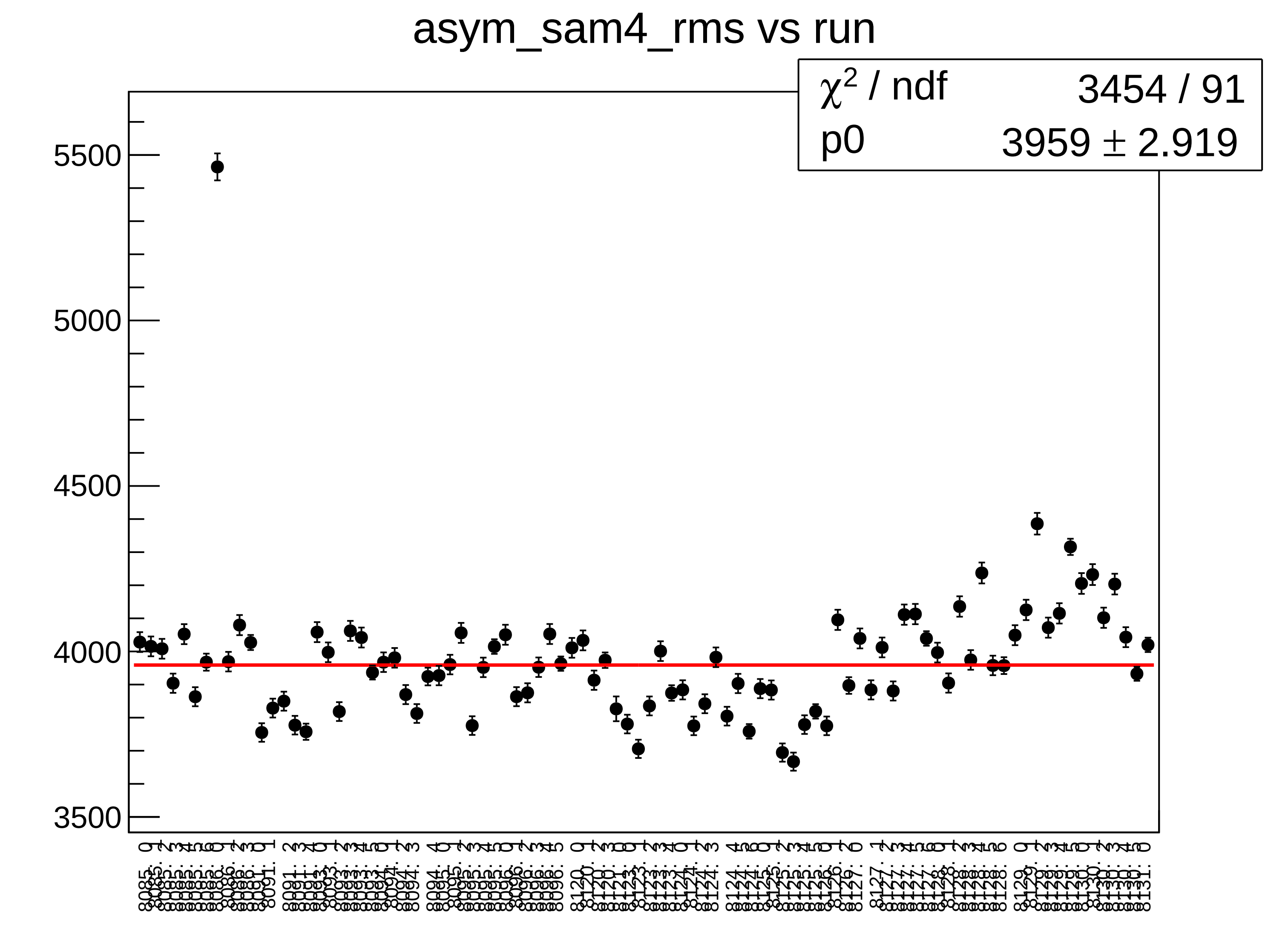
asym_sam2_rms vs run
χ^2 / ndf 9849 / 91
p0 4672 ± 3.451
6000
5500
5000
4500
4000

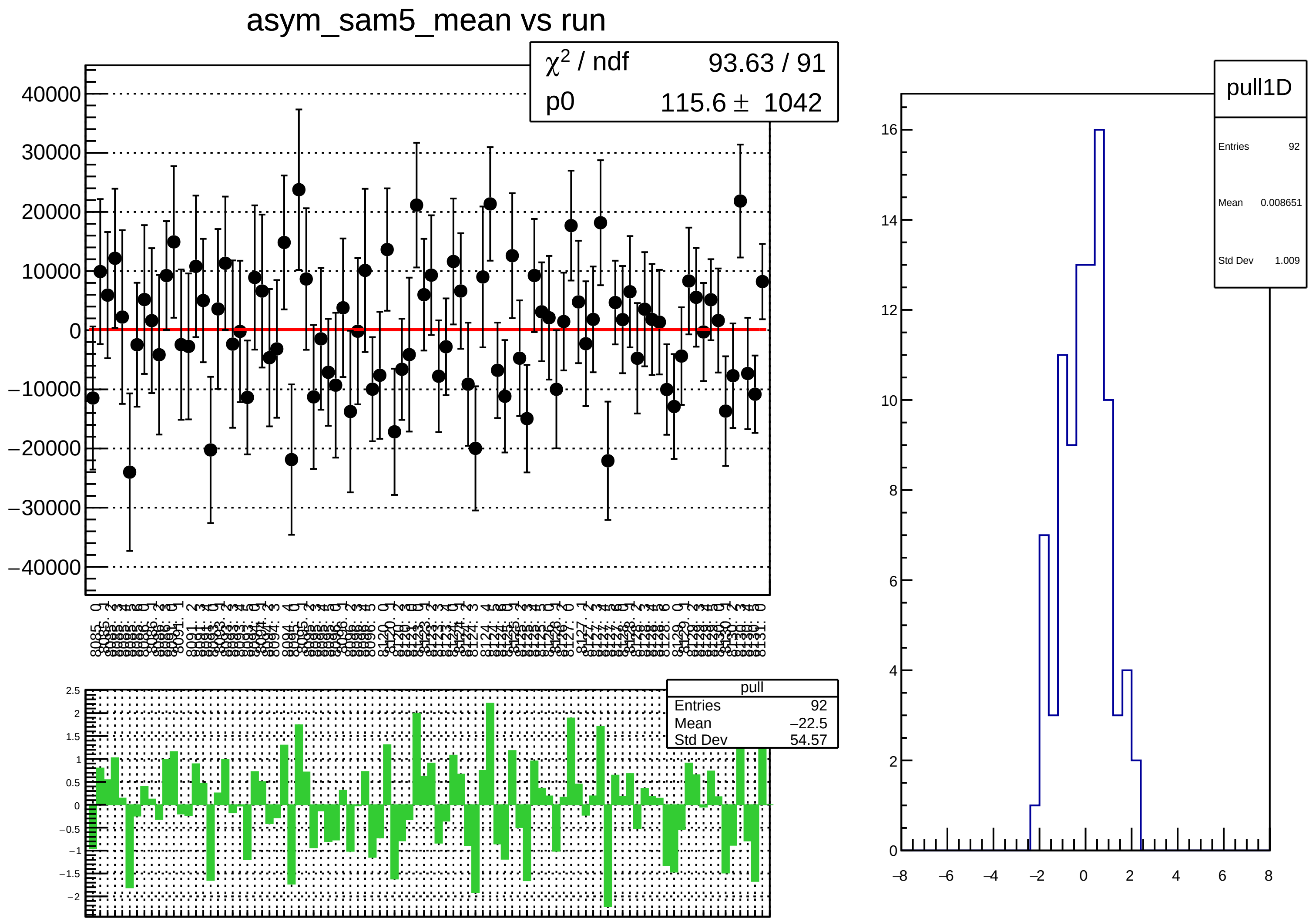


asym_sam3_mean vs run
$\times10^{3}$
χ^2 / ndf 57.32 / 91
p0 2813 ± 2782
pull
Entries 92
Mean −470.9
Std Dev 537.7
pull1D
Entries 92
Mean 0.002502
Std Dev 0.7893

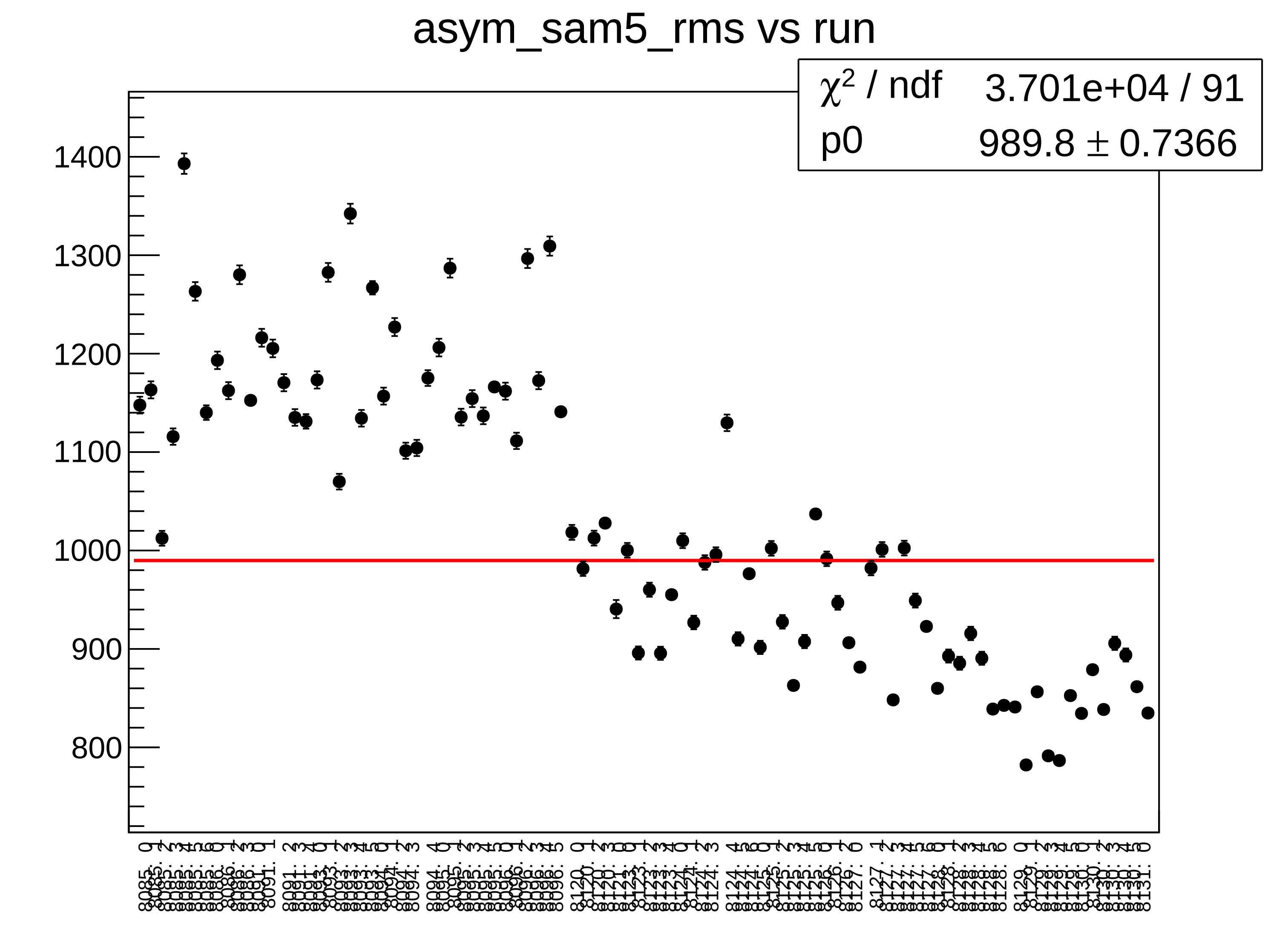

asym_sam3_rms vs run
χ^2 / ndf 4398 / 91
p0 2667 ± 1.967
3600
3400
3200
3000
2800
2600
2400


asym_sam4_mean vs run
×10^3
χ2 / ndf 64.39 / 91
p0 5007 ± 4128
100
50
0
−50
−100
pull
Entries 92
Mean −116.1
Std Dev 175.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.008902
Std Dev 0.8365
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

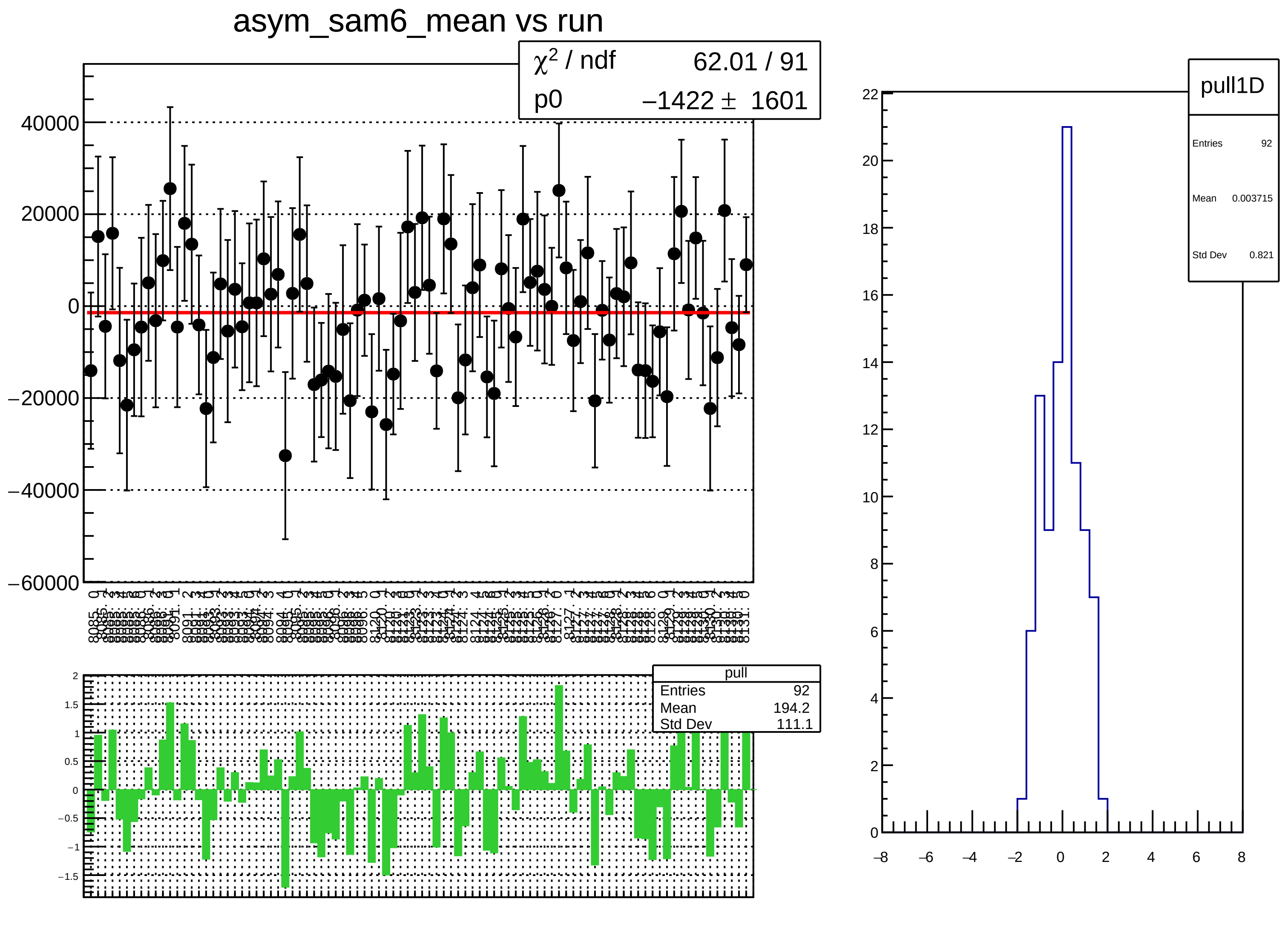

asym_sam4_rms vs run
χ2 / ndf 3454 / 91
p0 3959 ± 2.919
5500
5000
4500
4000
3500

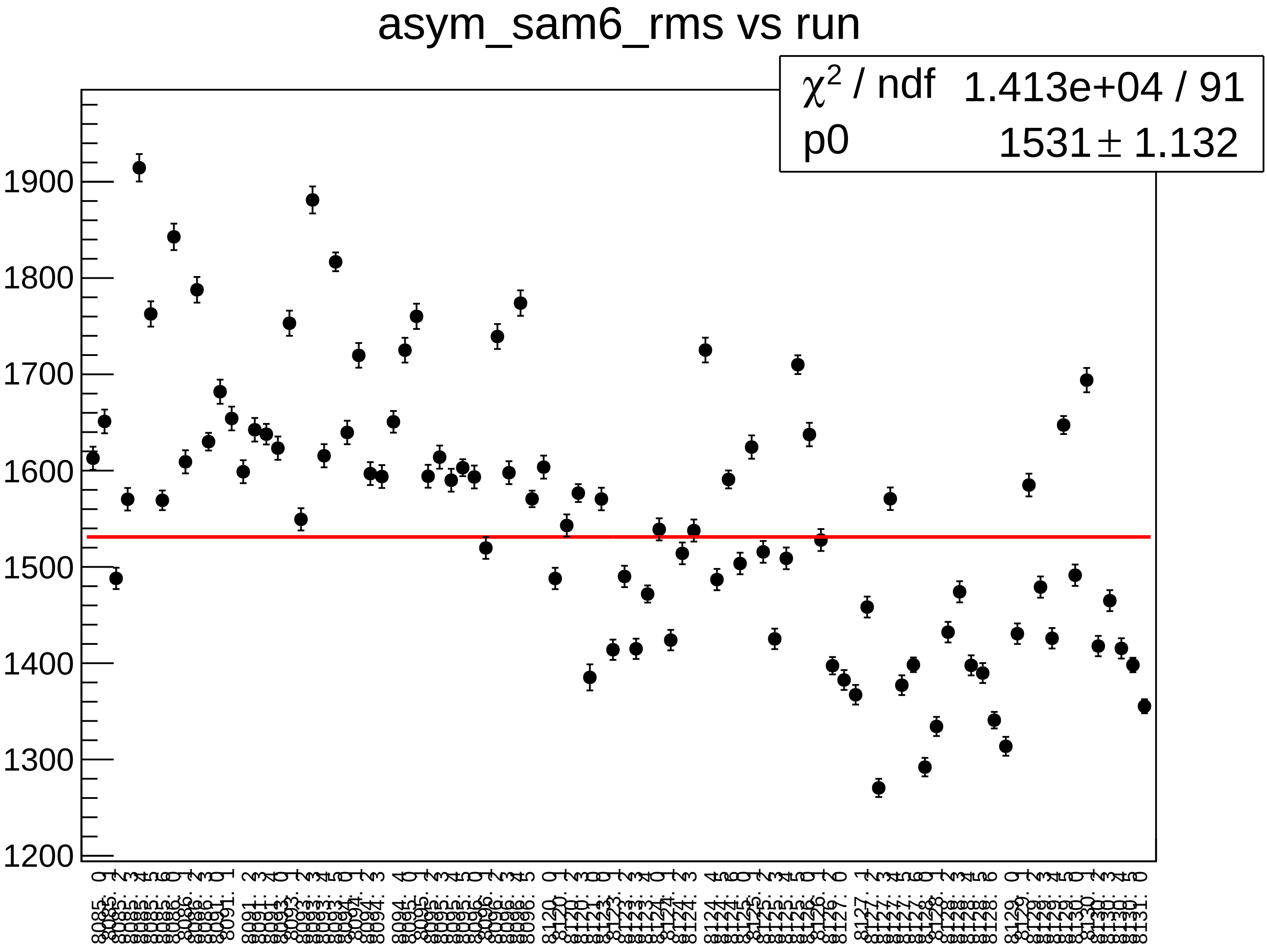


asym_sam5_mean vs run
χ^2 / ndf 93.63 / 91
p0 115.6 ± 1042
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −22.5
Std Dev 54.57
pull1D
Entries 92
Mean 0.008651
Std Dev 1.009

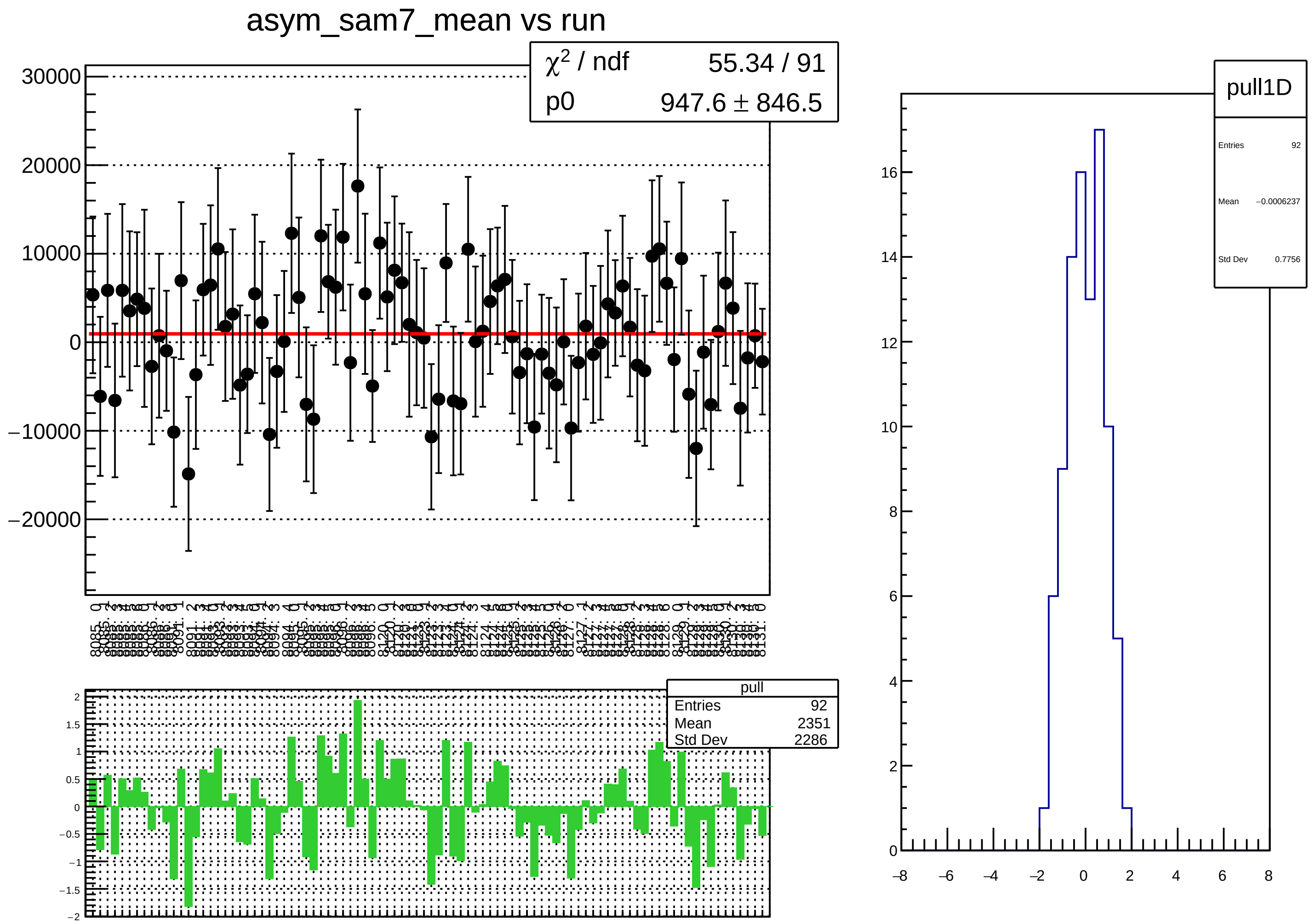


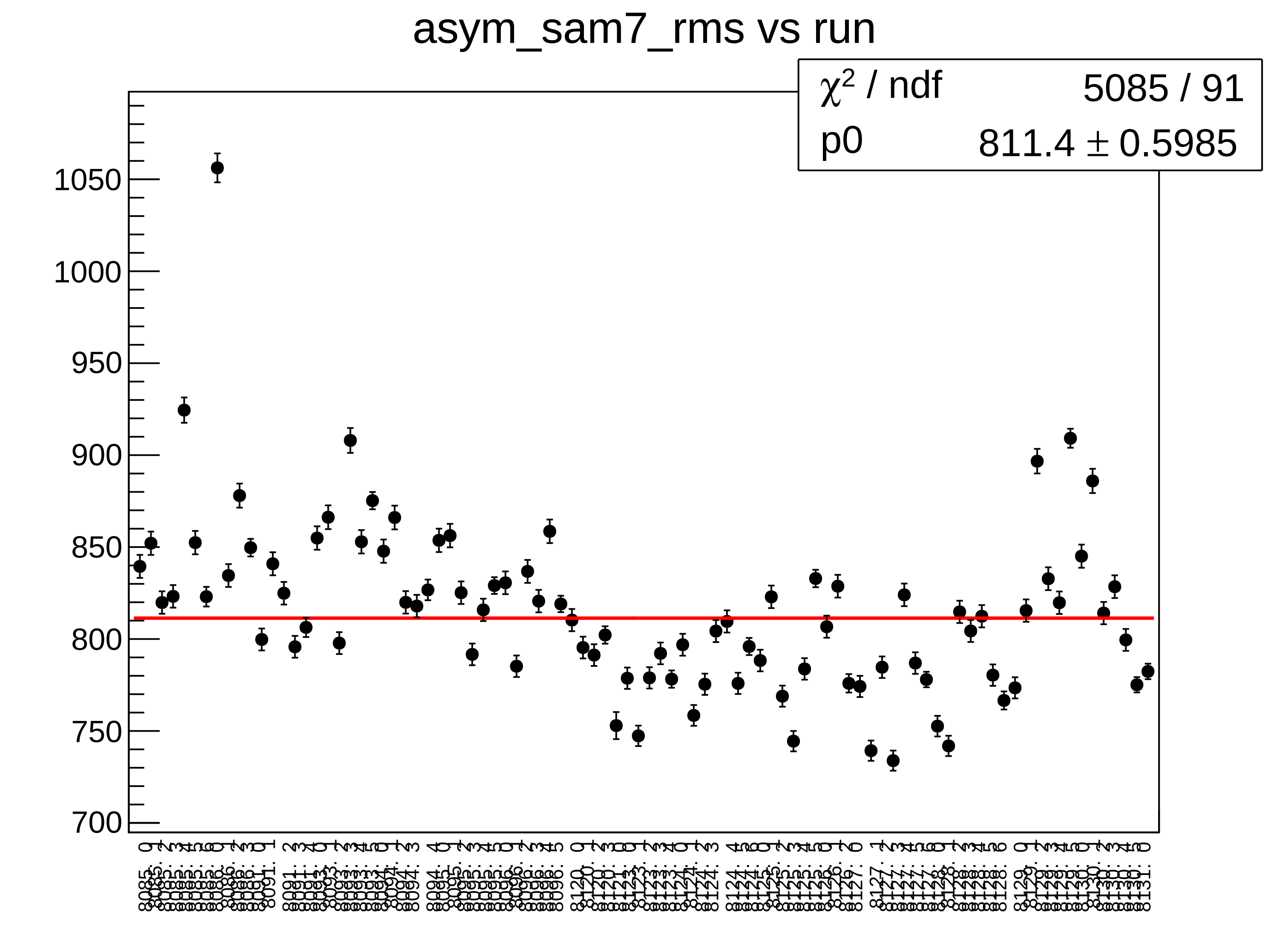
asym_sam5_rms vs run
χ2 / ndf 3.701e+04 / 91
p0 989.8 ± 0.7366
1400
1300
1200
1100
1000
900
800

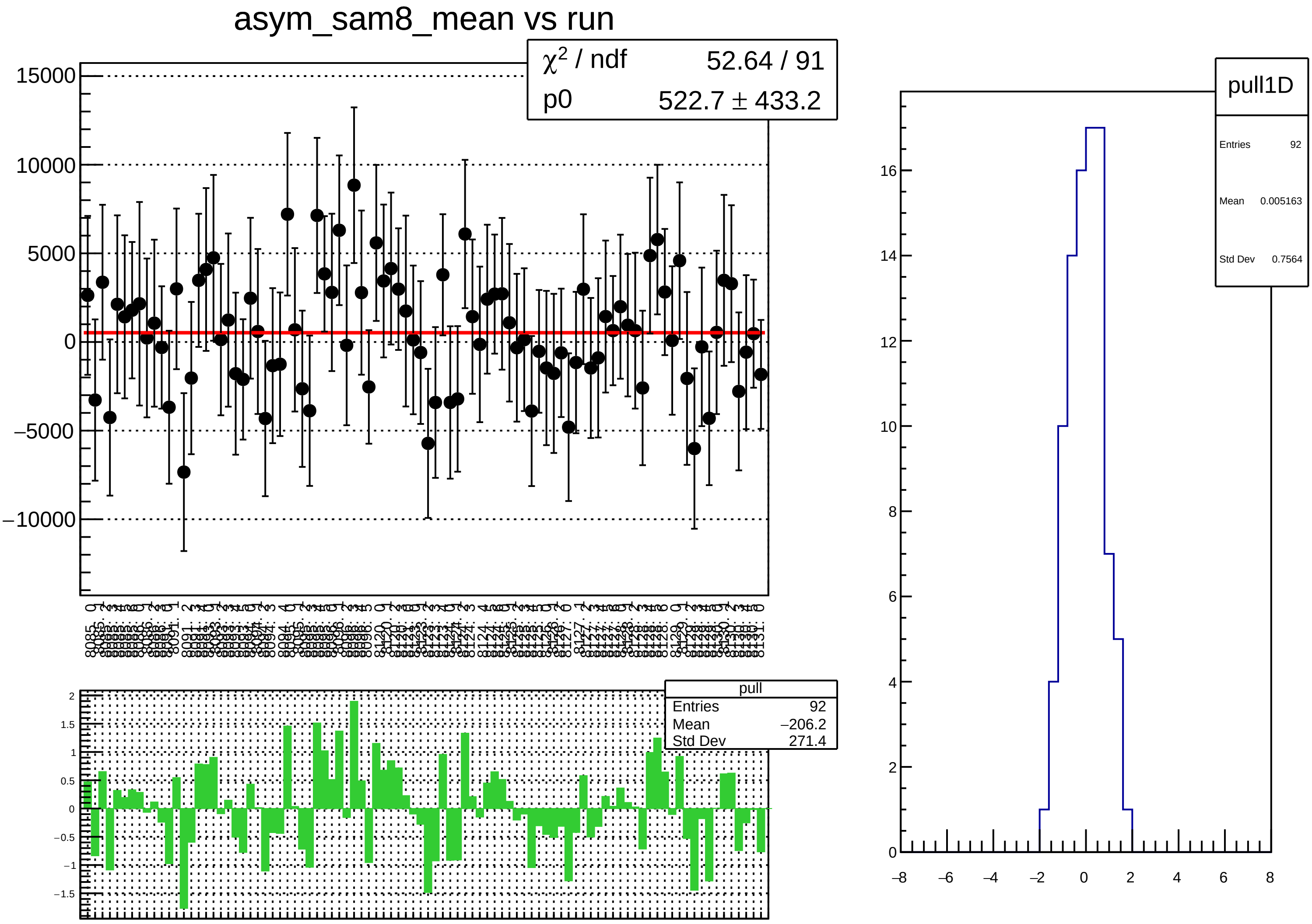

asym_sam6_mean vs run
χ^2 / ndf 62.01 / 91
p0 −1422 ± 1601
pull
Entries 92
Mean 194.2
Std Dev 111.1
pull1D
Entries 92
Mean 0.003715
Std Dev 0.821



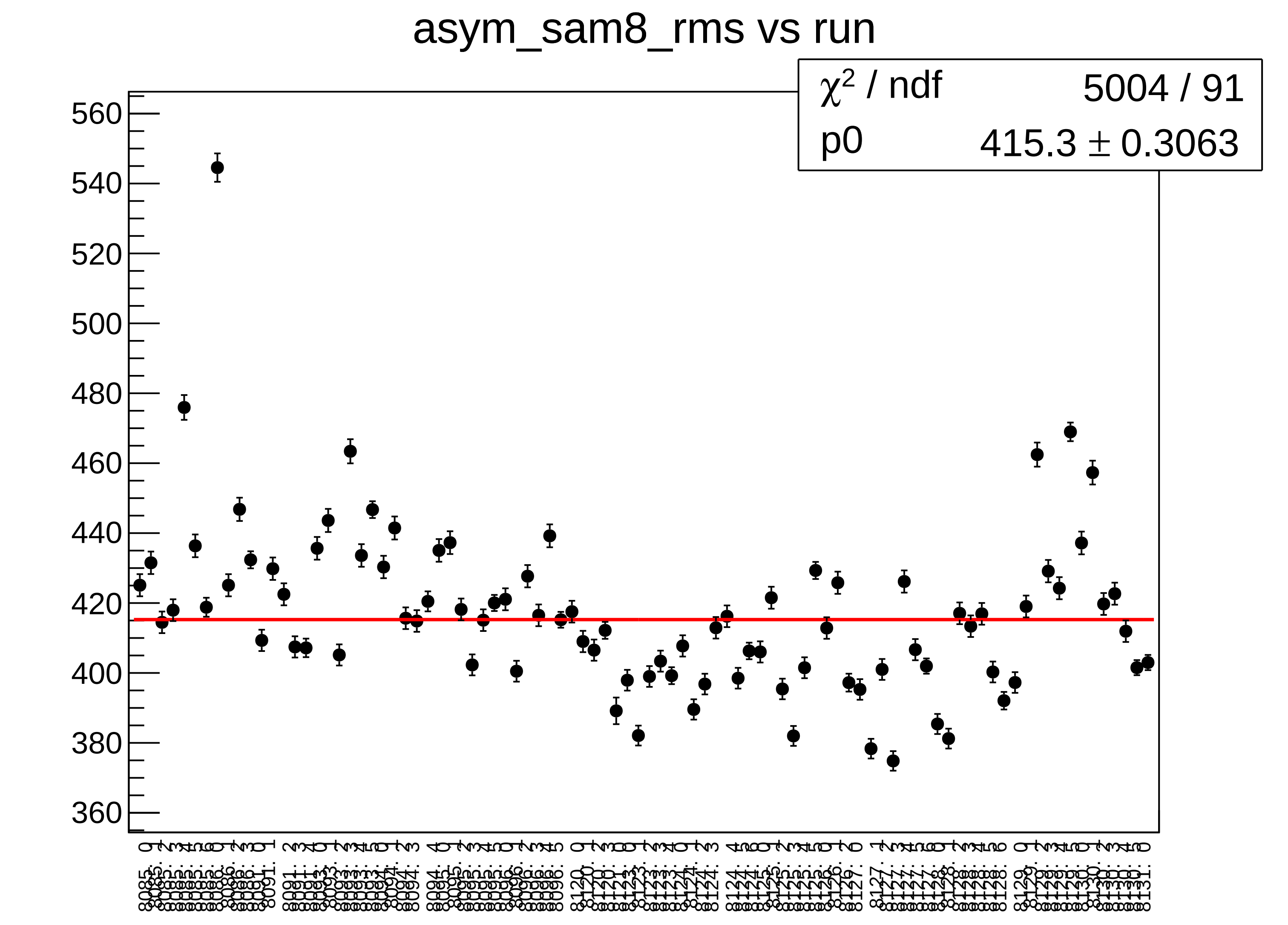
asym_sam6_rms vs run
χ^2 / ndf 1.413e+04 / 91
p0 1531 ± 1.132
1900
1800
1700
1600
1500
1400
1300
1200

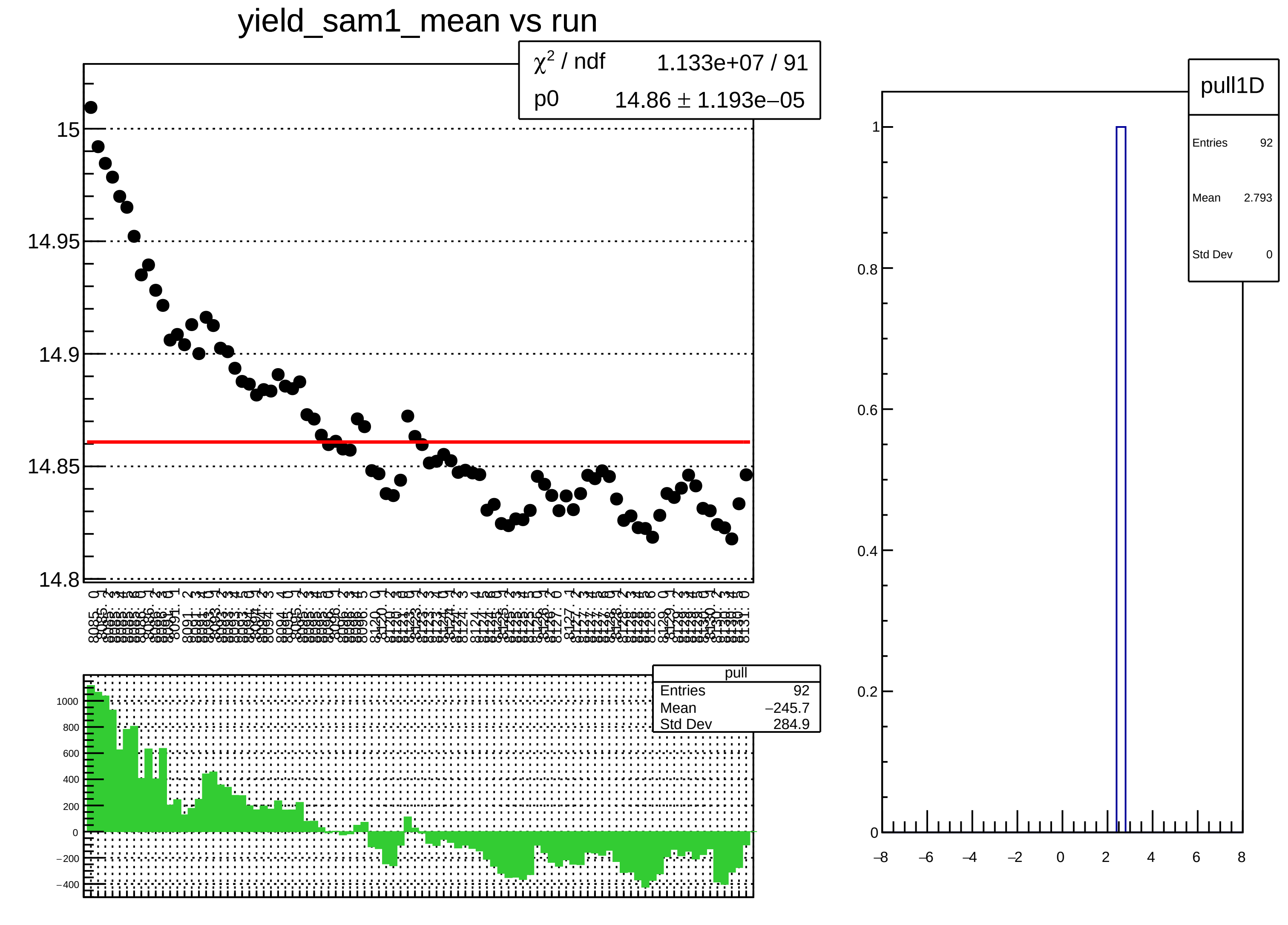

asym_sam7_mean vs run
χ^2 / ndf 55.34 / 91
p0 947.6 ± 846.5
pull
Entries 92
Mean 2351
Std Dev 2286
pull1D
Entries 92
Mean −0.0006237
Std Dev 0.7756

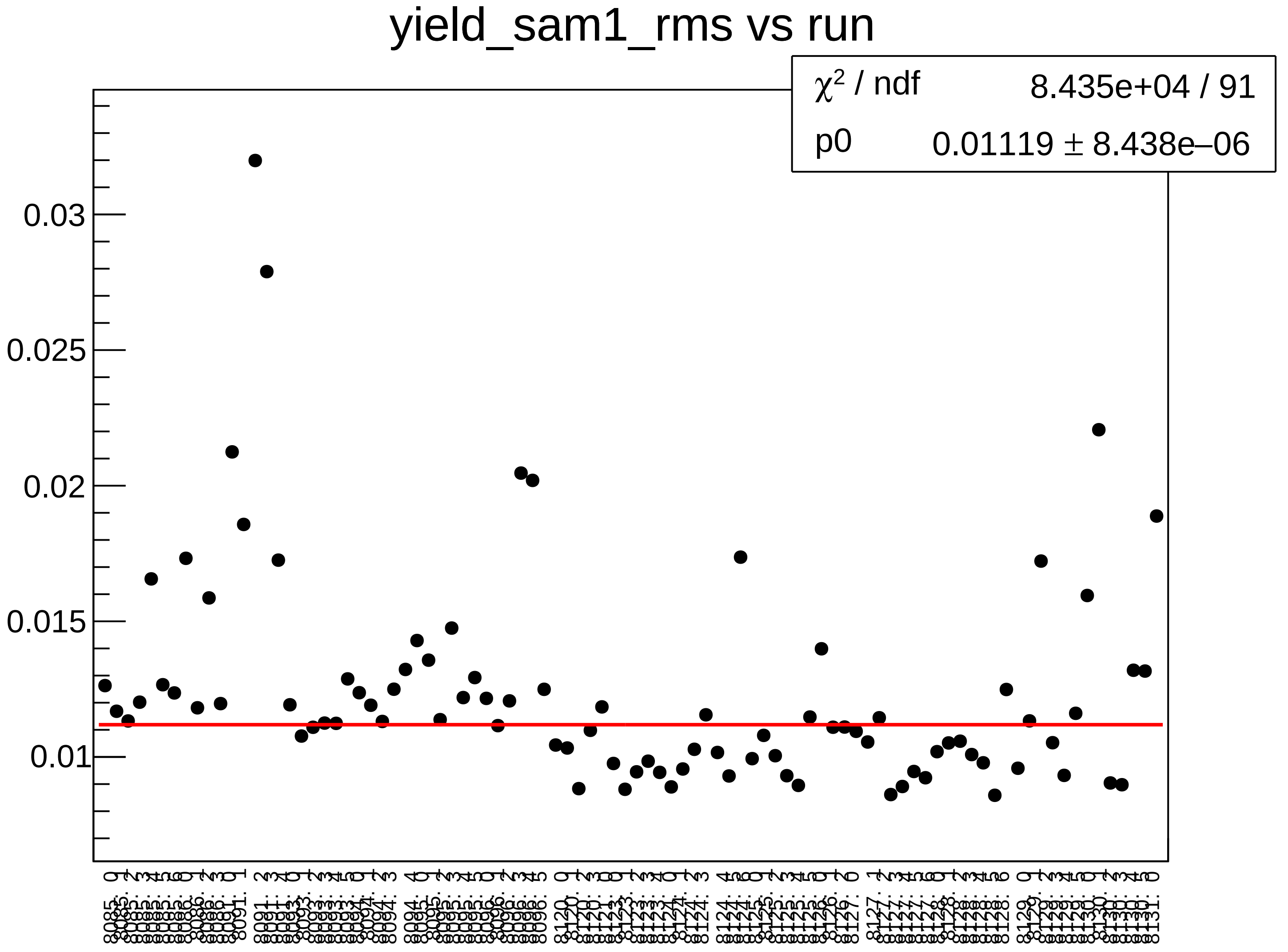




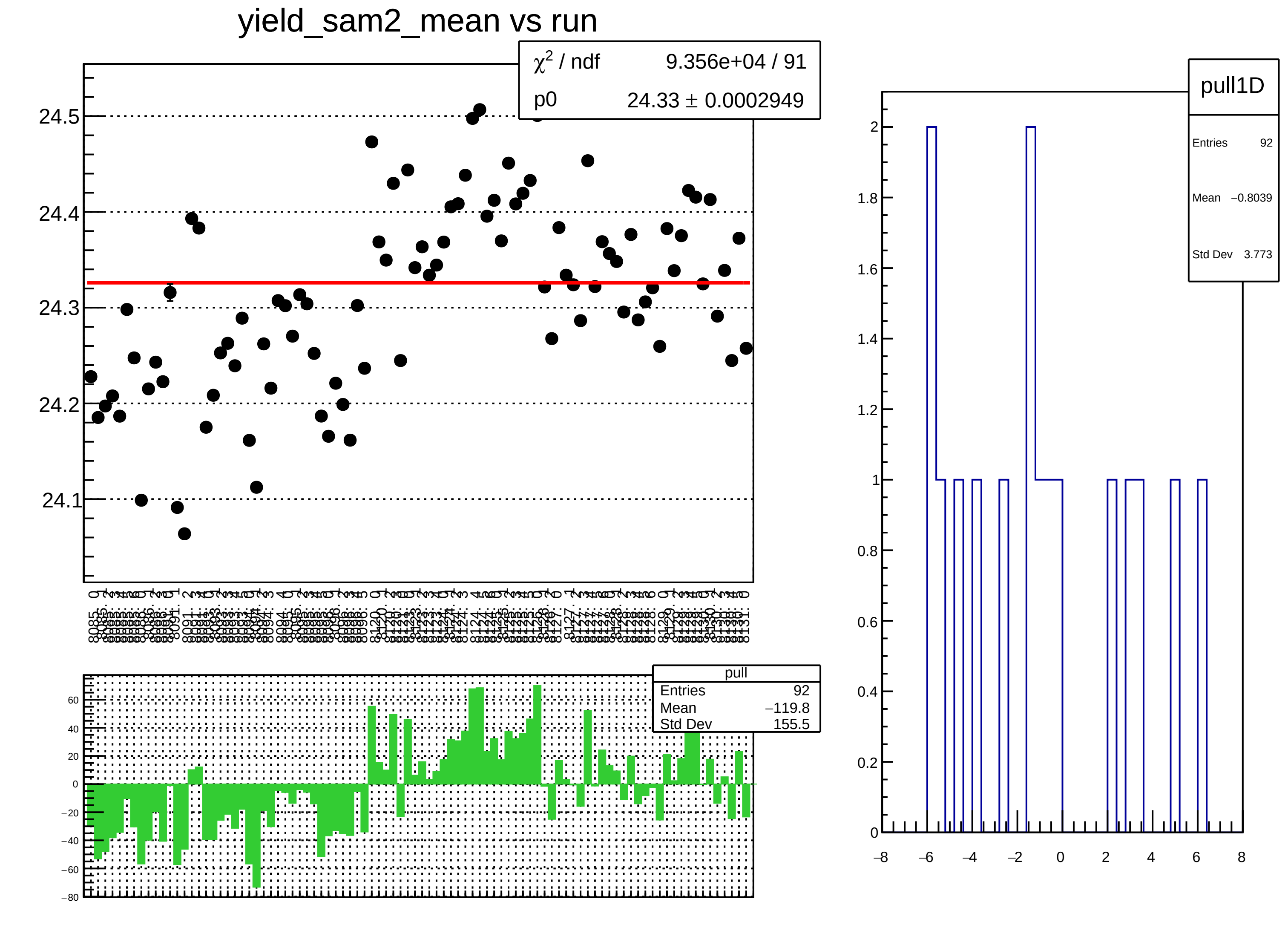
asym_sam8_mean vs run
χ^2 / ndf 52.64 / 91
p0 522.7 ± 433.2
15000
10000
5000
0
−5000
−10000
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull
Entries 92
Mean −206.2
Std Dev 271.4
pull1D
Entries 92
Mean 0.005163
Std Dev 0.7564
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam8_rms vs run
χ2 / ndf 5004 / 91
p0 415.3 ± 0.3063
560
540
520
500
480
460
440
420
400
380
360

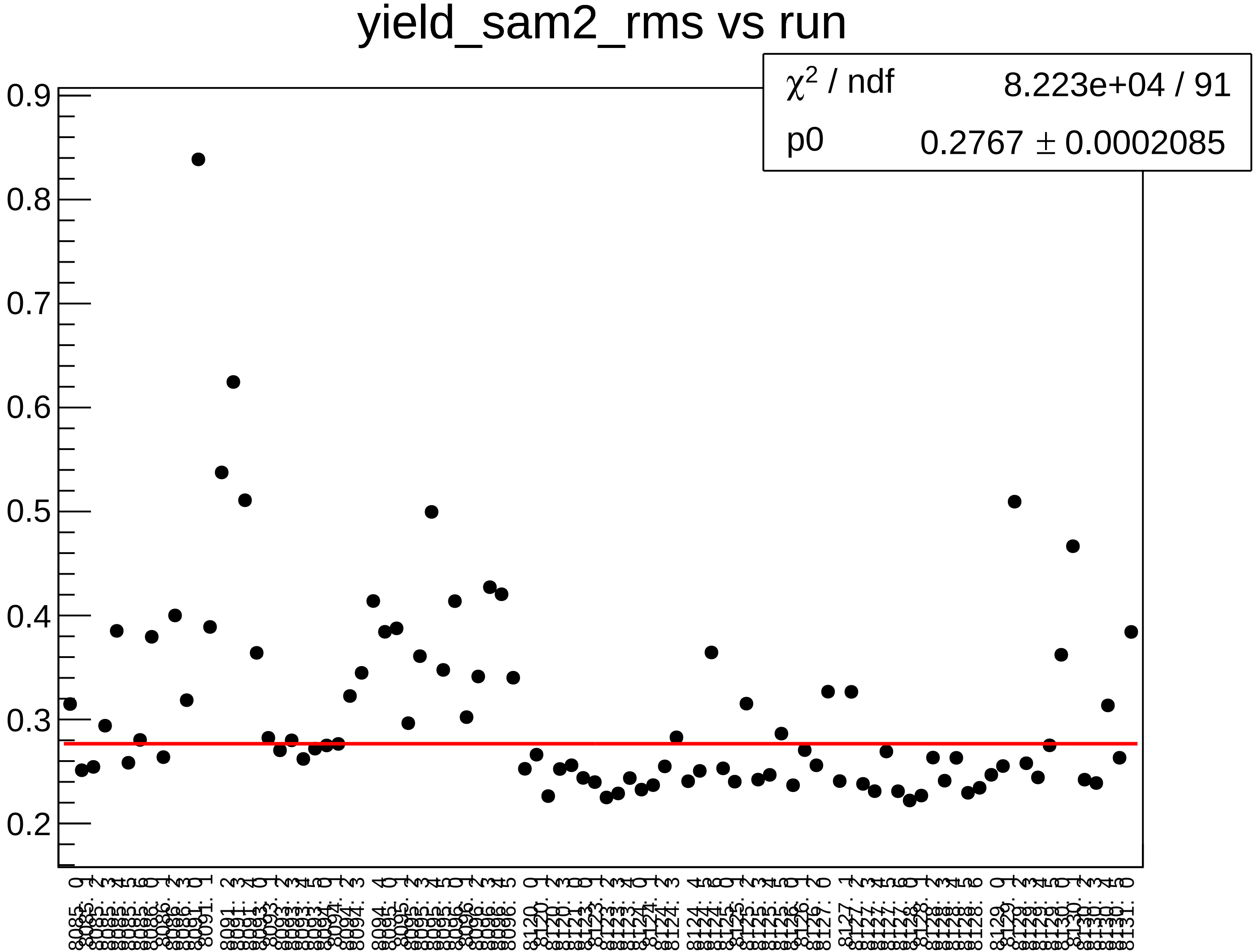

yield_sam1_mean vs run
χ^2 / ndf 1.133e+07 / 91
p0 14.86 ± 1.193e−05
pull
Entries 92
Mean −245.7
Std Dev 284.9
pull1D
Entries 92
Mean 2.793
Std Dev 0

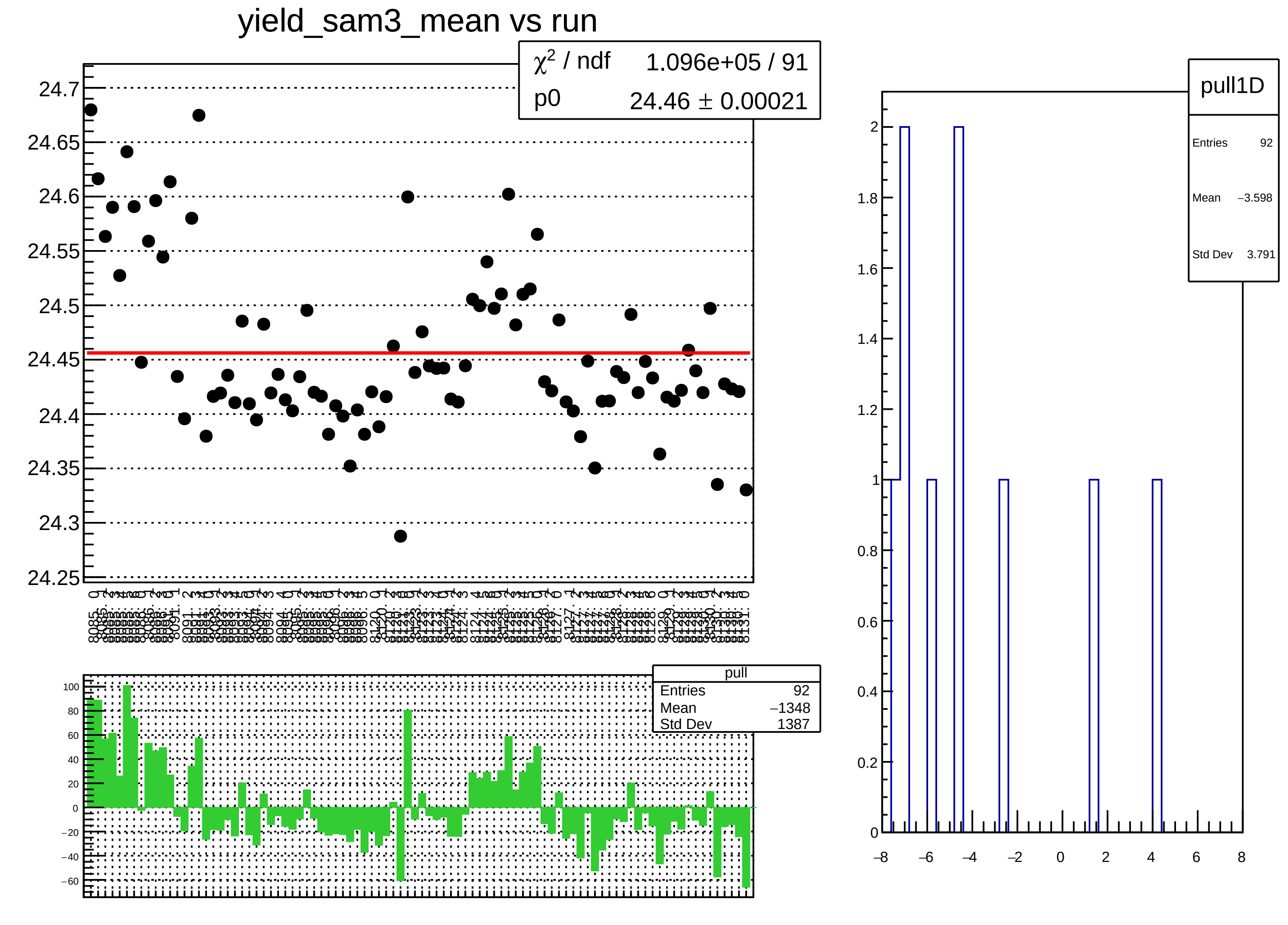


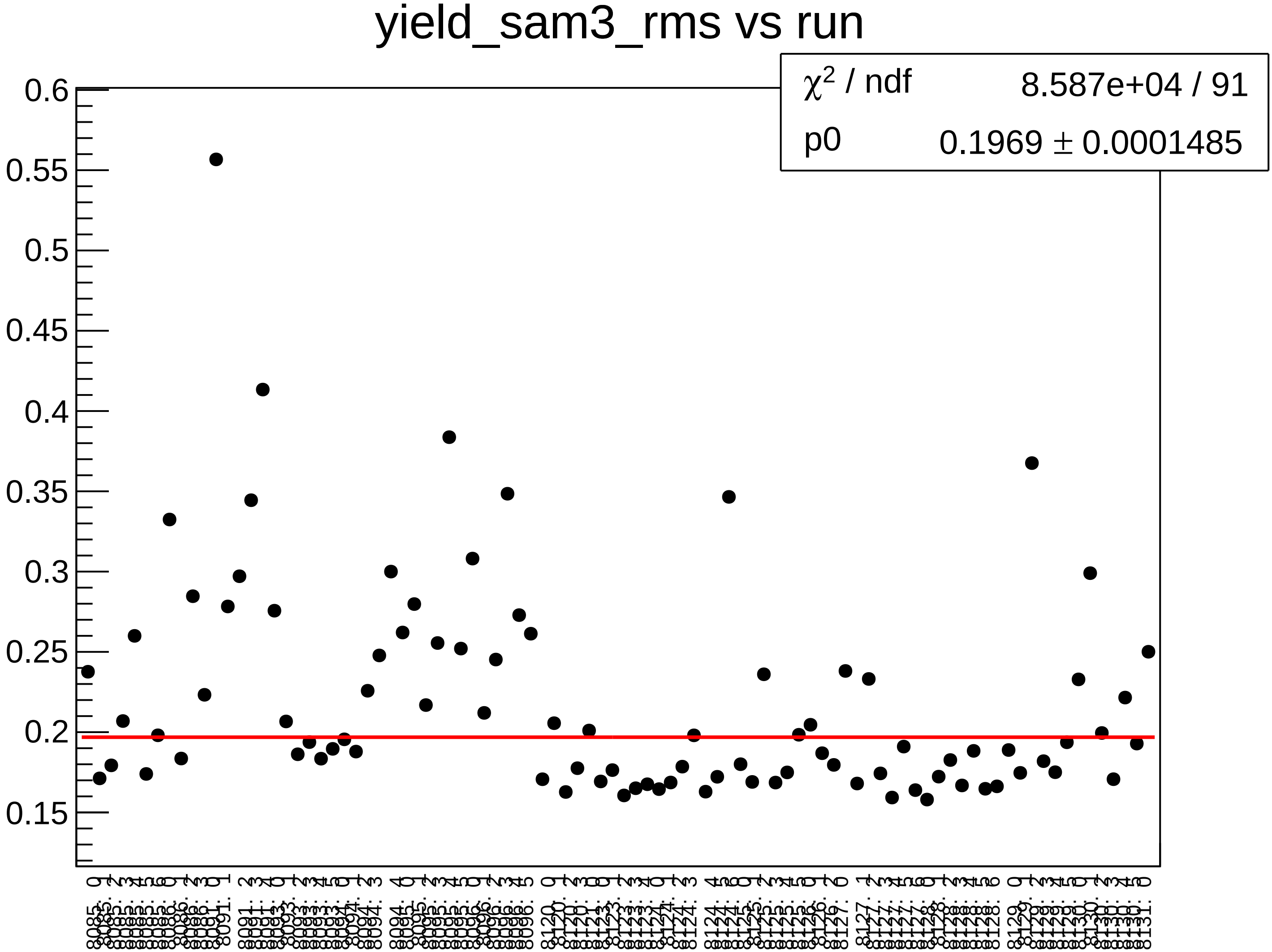
yield_sam1_rms vs run
χ^2 / ndf 8.435e+04 / 91
p0 0.01119 ± 8.438e–06
0.03
0.025
0.02
0.015
0.01



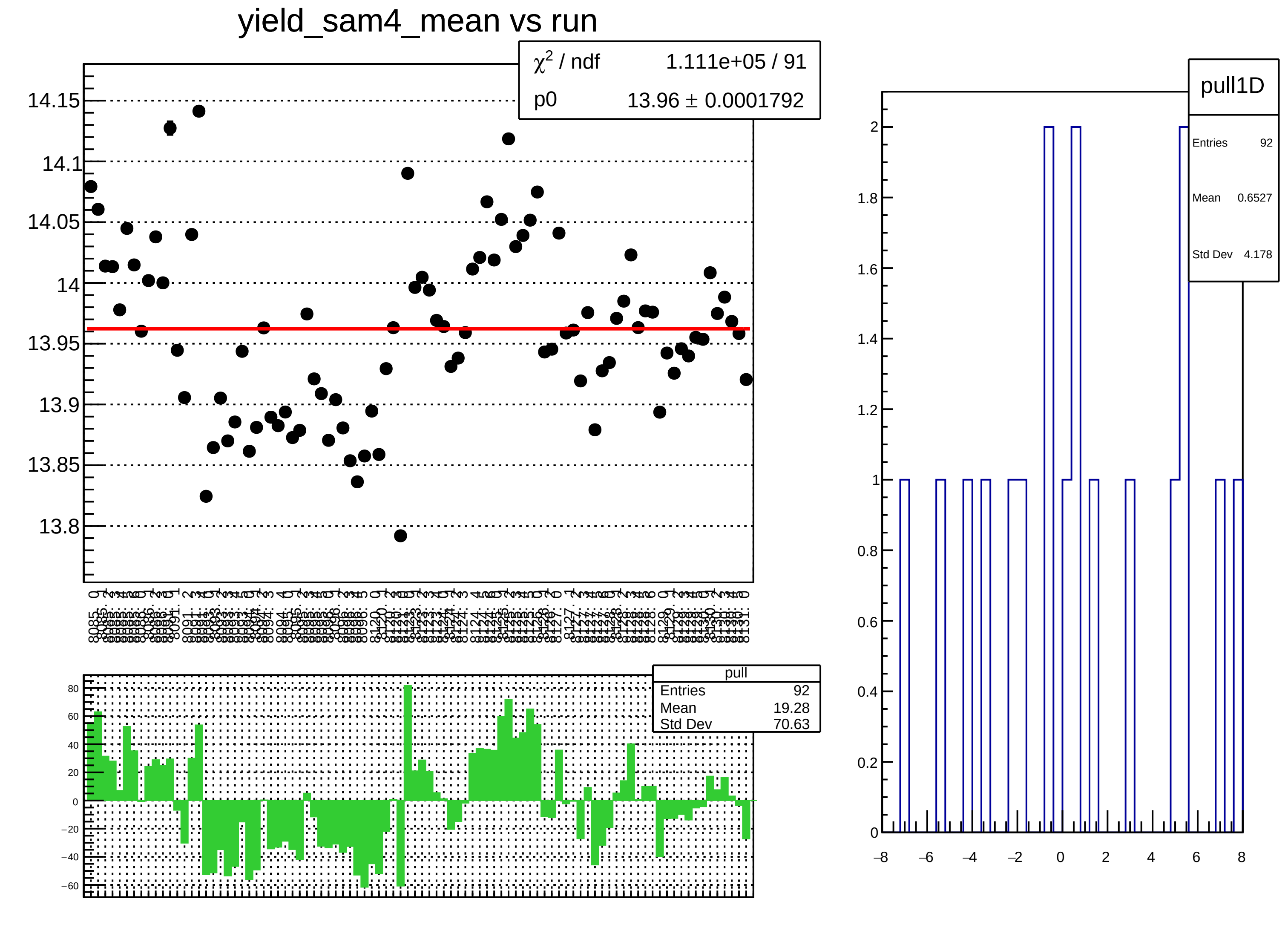
yield_sam2_mean vs run
χ^2 / ndf 9.356e+04 / 91
p0 24.33 ± 0.0002949
24.5
24.4
24.3
24.2
24.1
pull
Entries 92
Mean −119.8
Std Dev 155.5
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 92
Mean −0.8039
Std Dev 3.773
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

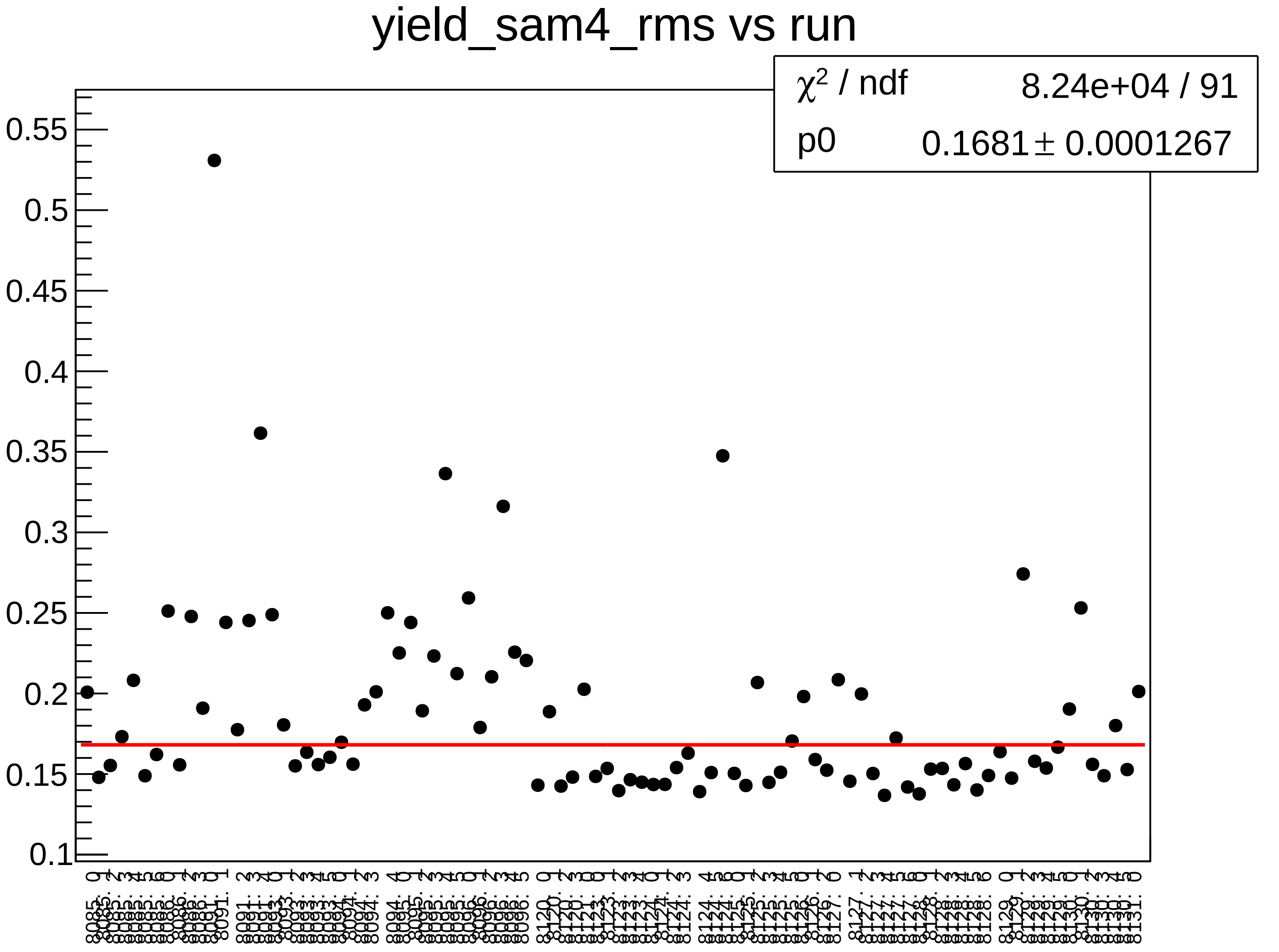

yield_sam2_rms vs run
χ2 / ndf 8.223e+04 / 91
p0 0.2767 ± 0.0002085
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2


yield_sam3_mean vs run
χ^2 / ndf 1.096e+05 / 91
p0 24.46 ± 0.00021
24.7
24.65
24.6
24.55
24.5
24.45
24.4
24.35
24.3
24.25
pull
Entries 92
Mean −1348
Std Dev 1387
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean −3.598
Std Dev 3.791
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

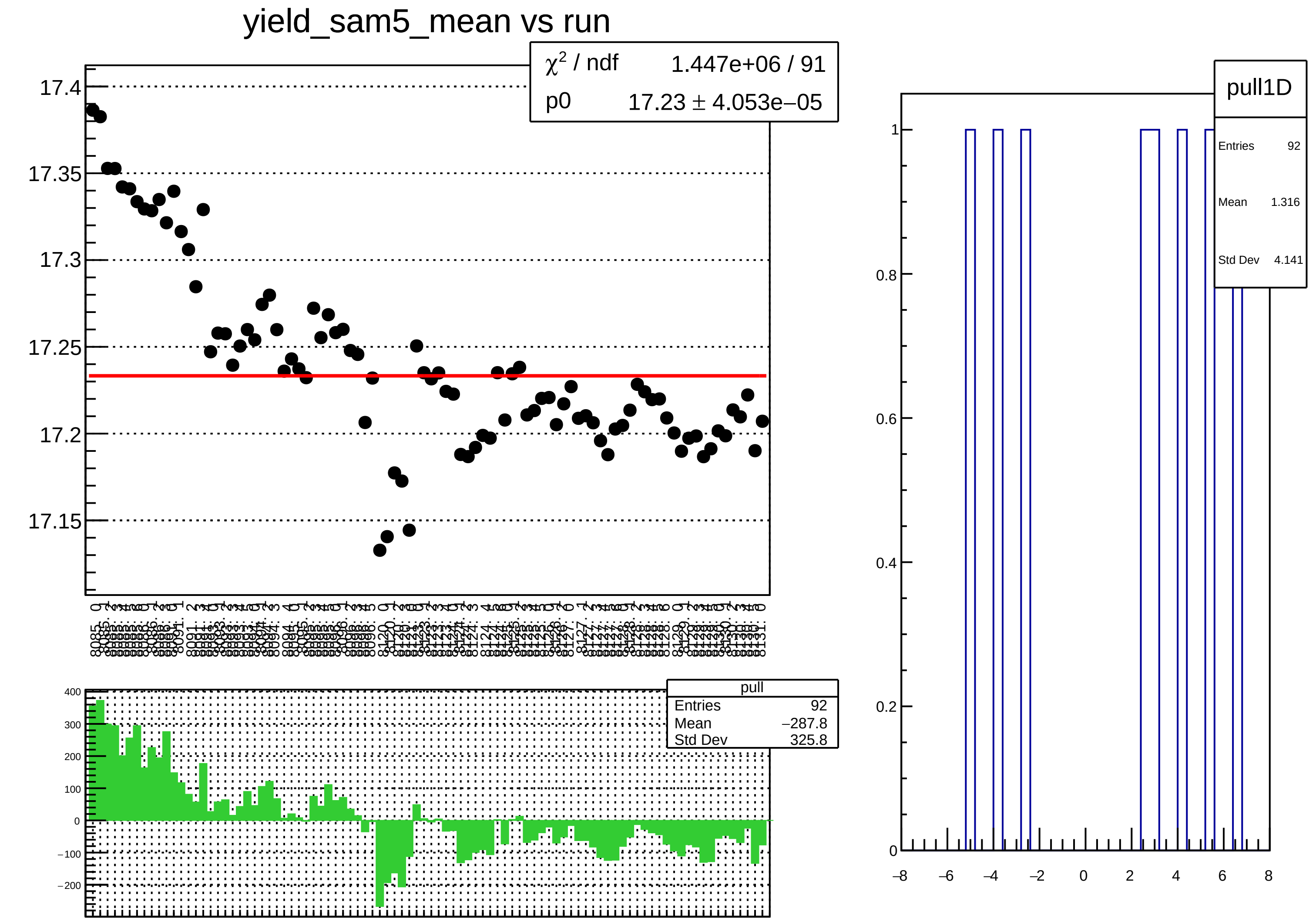


yield_sam3_rms vs run
χ^2 / ndf 8.587e+04 / 91
p0 0.1969 ± 0.0001485
0.6
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15

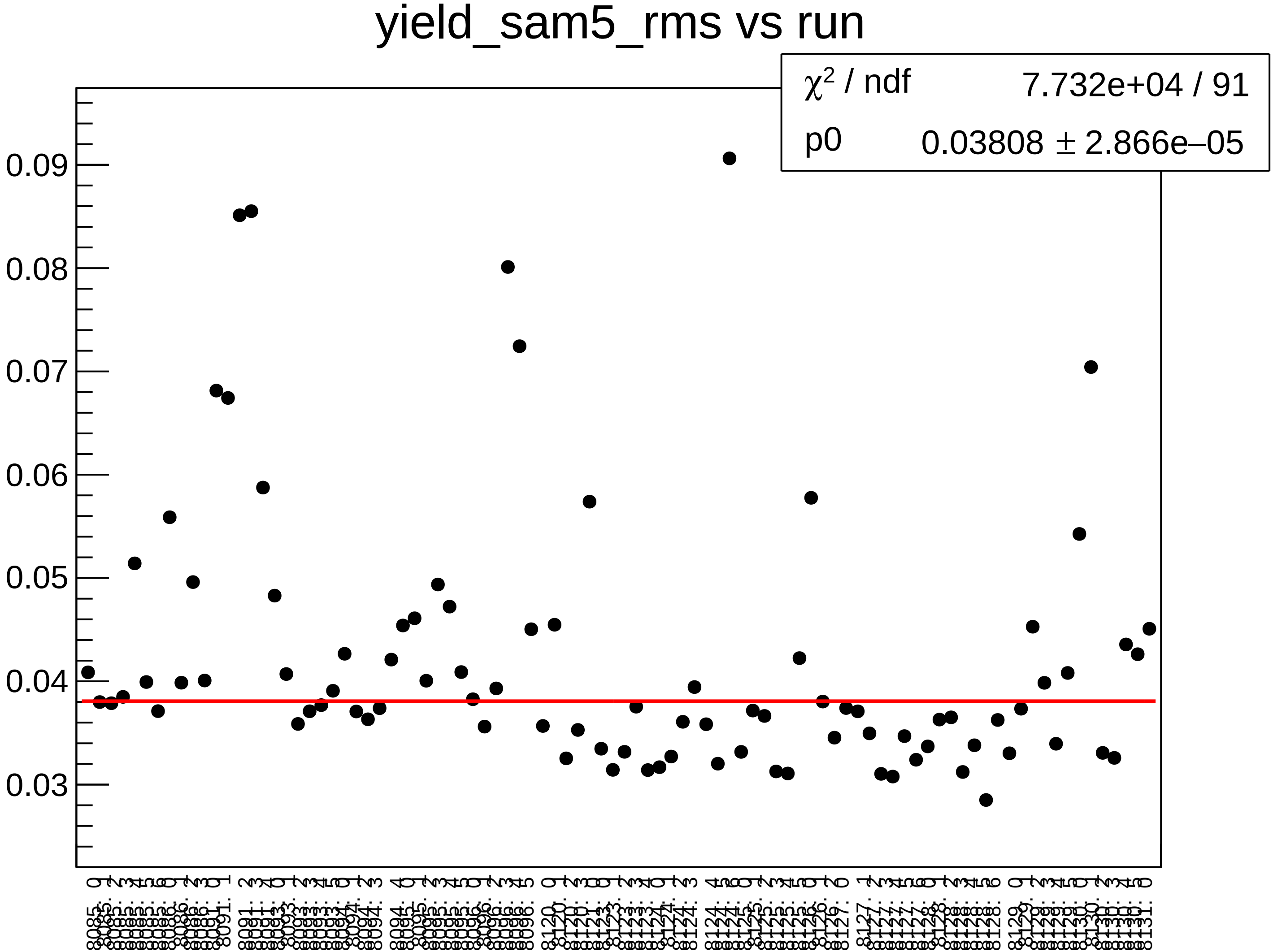

yield_sam4_mean vs run
χ2 / ndf 1.111e+05 / 91
p0 13.96 ± 0.0001792
14.15
14.1
14.05
14
13.95
13.9
13.85
13.8
pull
Entries 92
Mean 19.28
Std Dev 70.63
80
60
40
20
0
−20
−40
−60
pull1D
Entries 92
Mean 0.6527
Std Dev 4.178
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

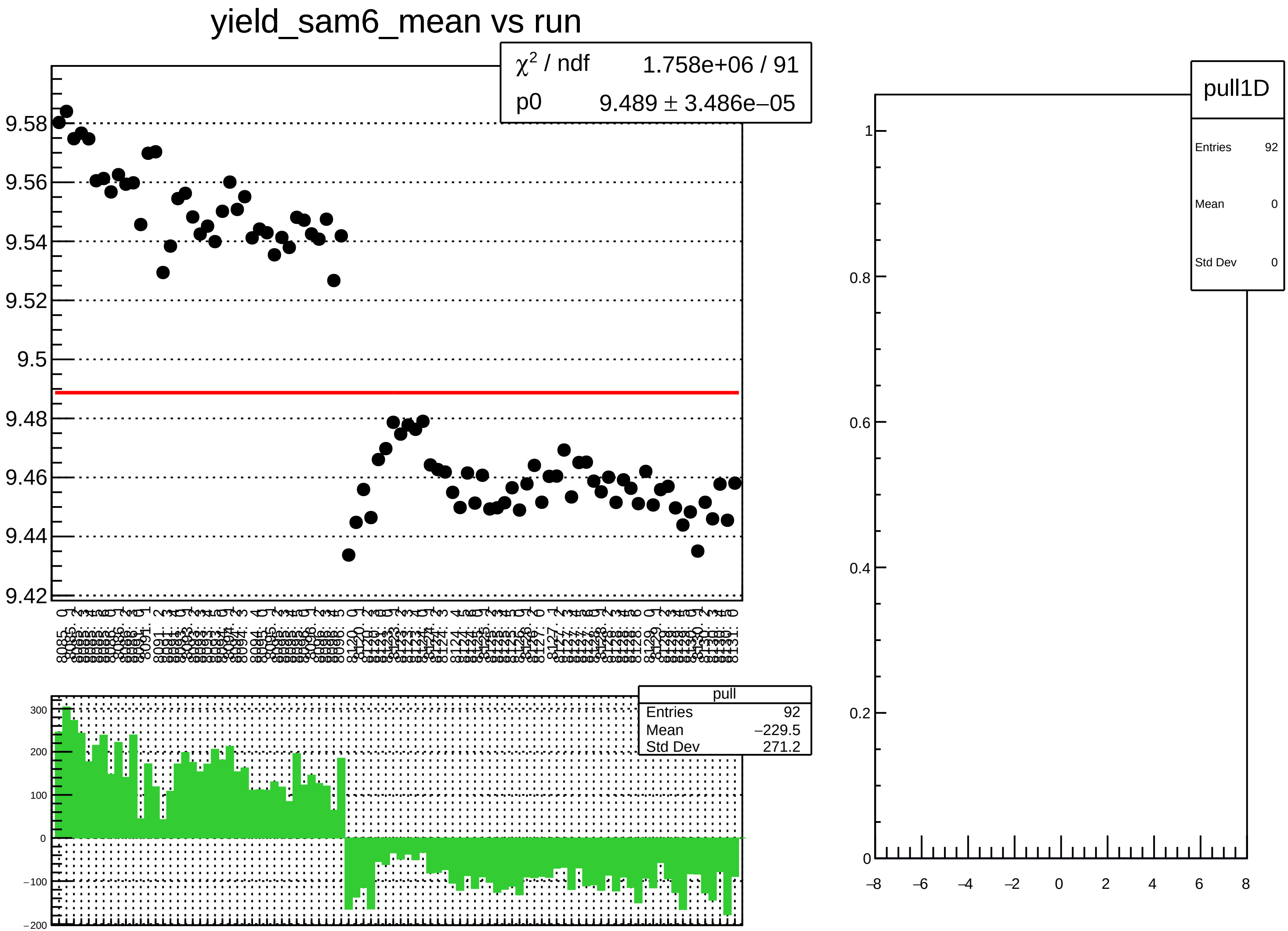


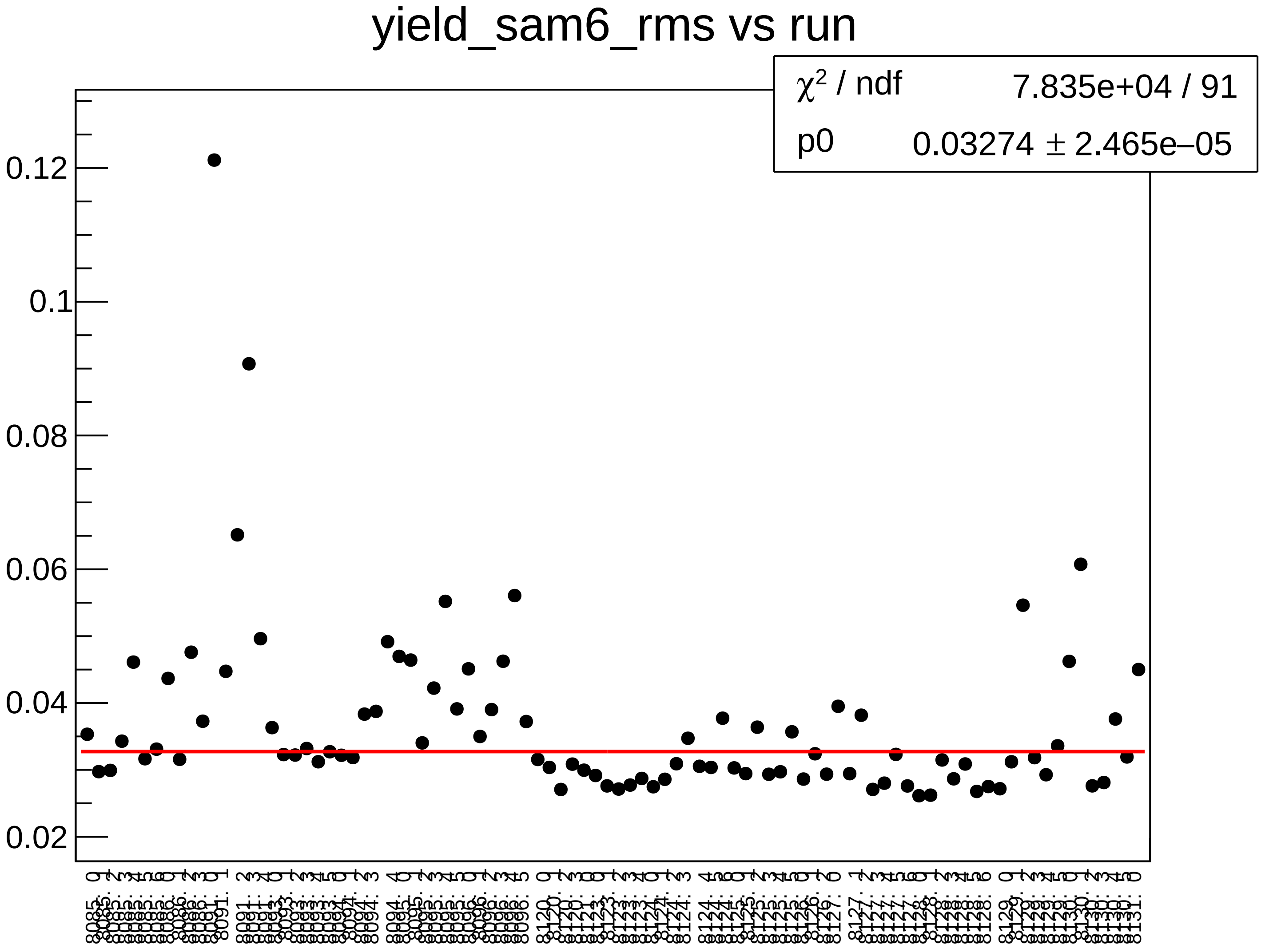
yield_sam4_rms vs run
χ^2 / ndf 8.24e+04 / 91
p0 0.1681 ± 0.0001267
0.55
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

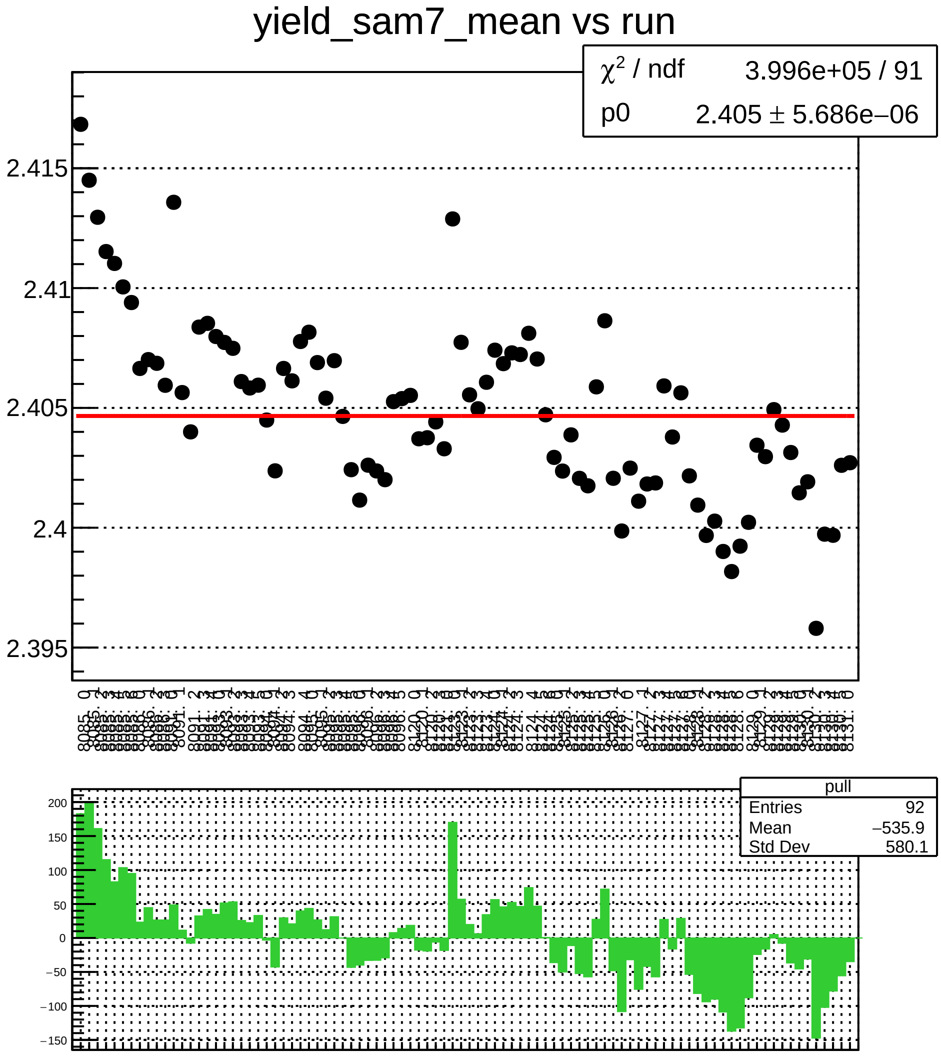


yield_sam5_mean vs run
χ^2 / ndf 1.447e+06 / 91
p0 17.23 ± 4.053e−05
17.4
17.35
17.3
17.25
17.2
17.15
pull
Entries 92
Mean −287.8
Std Dev 325.8
400
300
200
100
0
−100
−200
pull1D
Entries 92
Mean 1.316
Std Dev 4.141
1
0.8
0.6
0.4
0.2
0
−8 −6 −4 −2 0 2 4 6 8

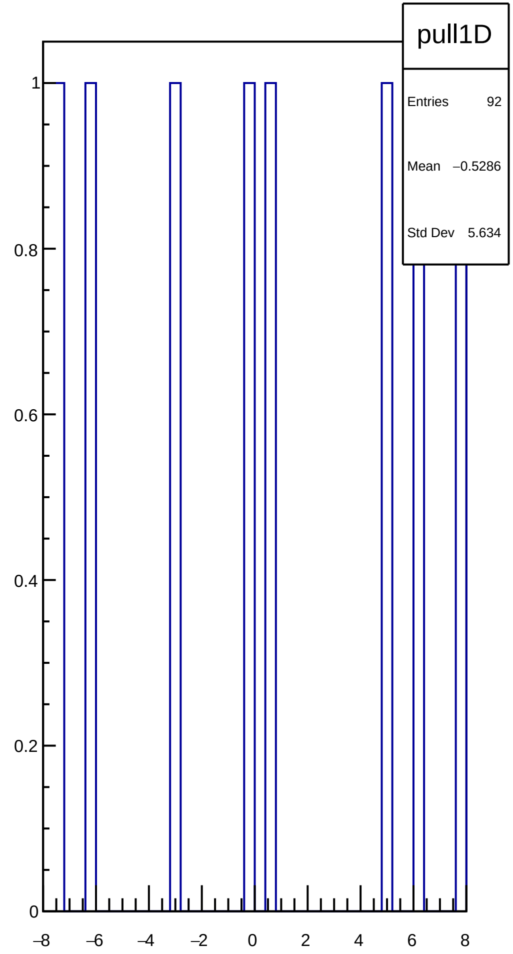

yield_sam5_rms vs run
χ^2 / ndf 7.732e+04 / 91
p0 0.03808 ± 2.866e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03


yield_sam6_mean vs run
χ2 / ndf 1.758e+06 / 91
p0 9.489 ± 3.486e−05
pull
Entries 92
Mean −229.5
Std Dev 271.2
pull1D
Entries 92
Mean 0
Std Dev 0

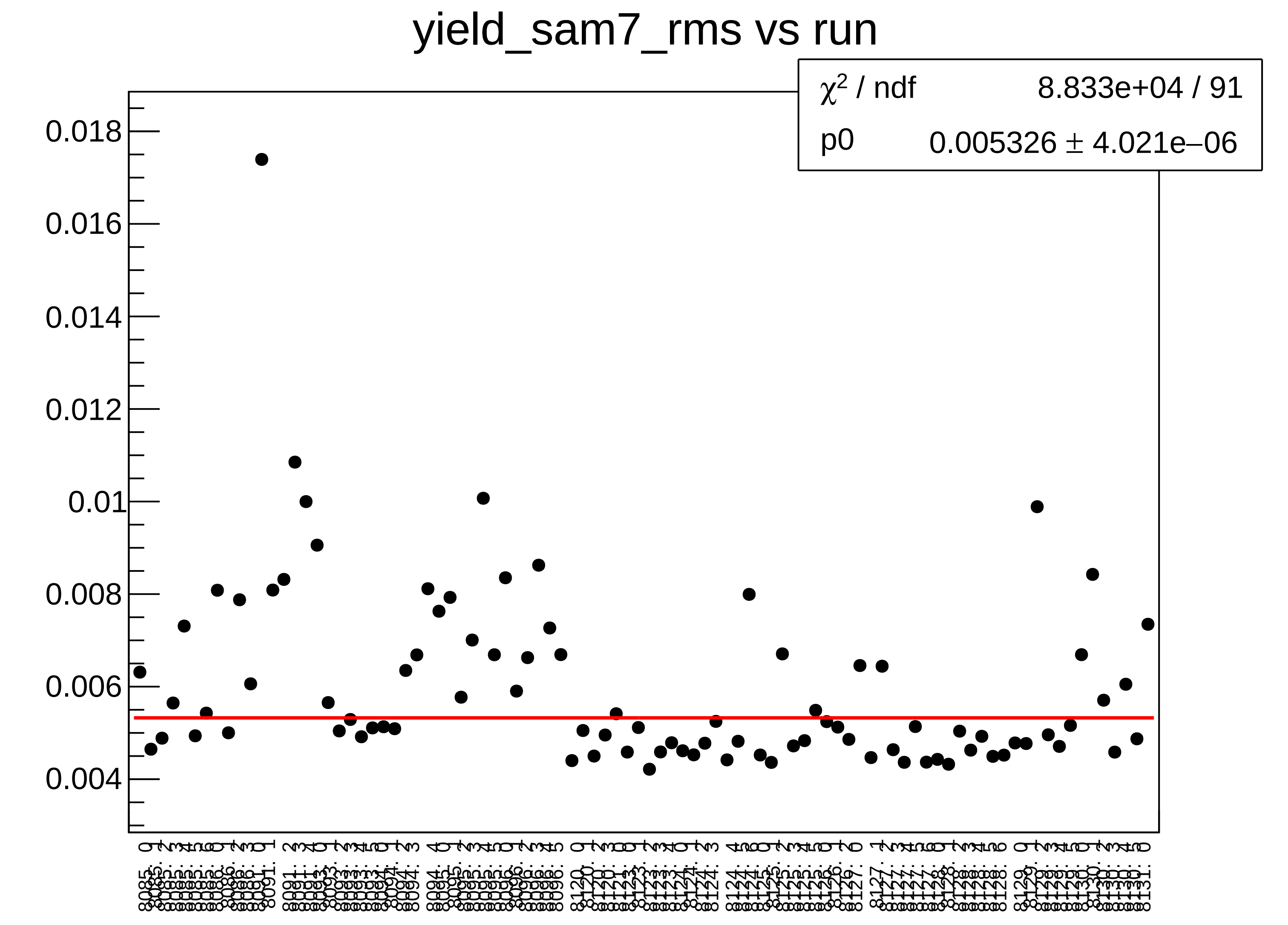

yield_sam6_rms vs run
χ^2 / ndf 7.835e+04 / 91
p0 0.03274 ± 2.465e−05
0.12
0.1
0.08
0.06
0.04
0.02



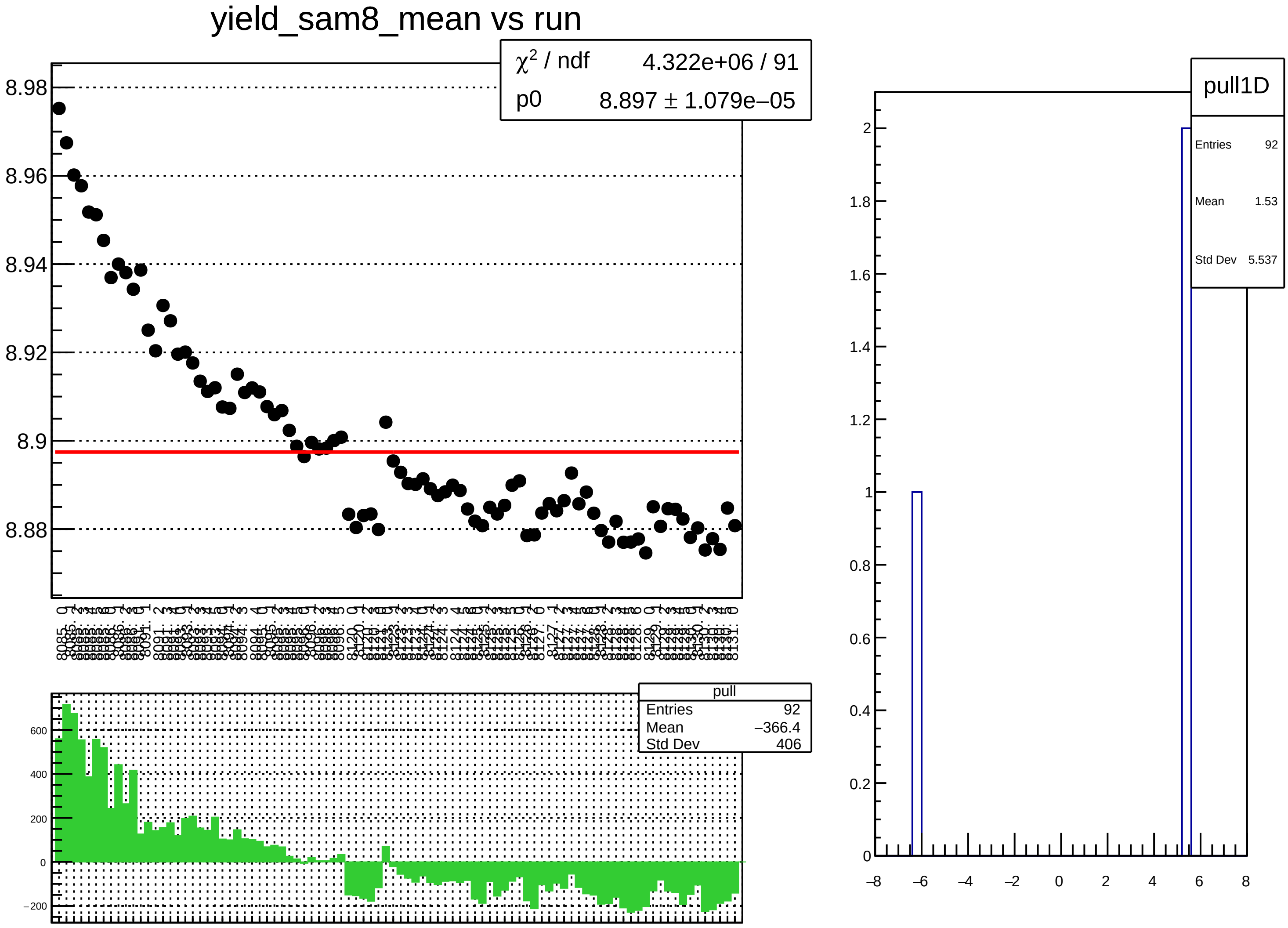
yield_sam7_mean vs run
χ2 / ndf 3.996e+05 / 91
p0 2.405 ± 5.686e−06
2.415
2.41
2.405
2.4
2.395
pull
Entries 92
Mean −535.9
Std Dev 580.1
200
150
100
50
0
−50
−100
−150



pull1D
Entries 92
Mean −0.5286
Std Dev 5.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

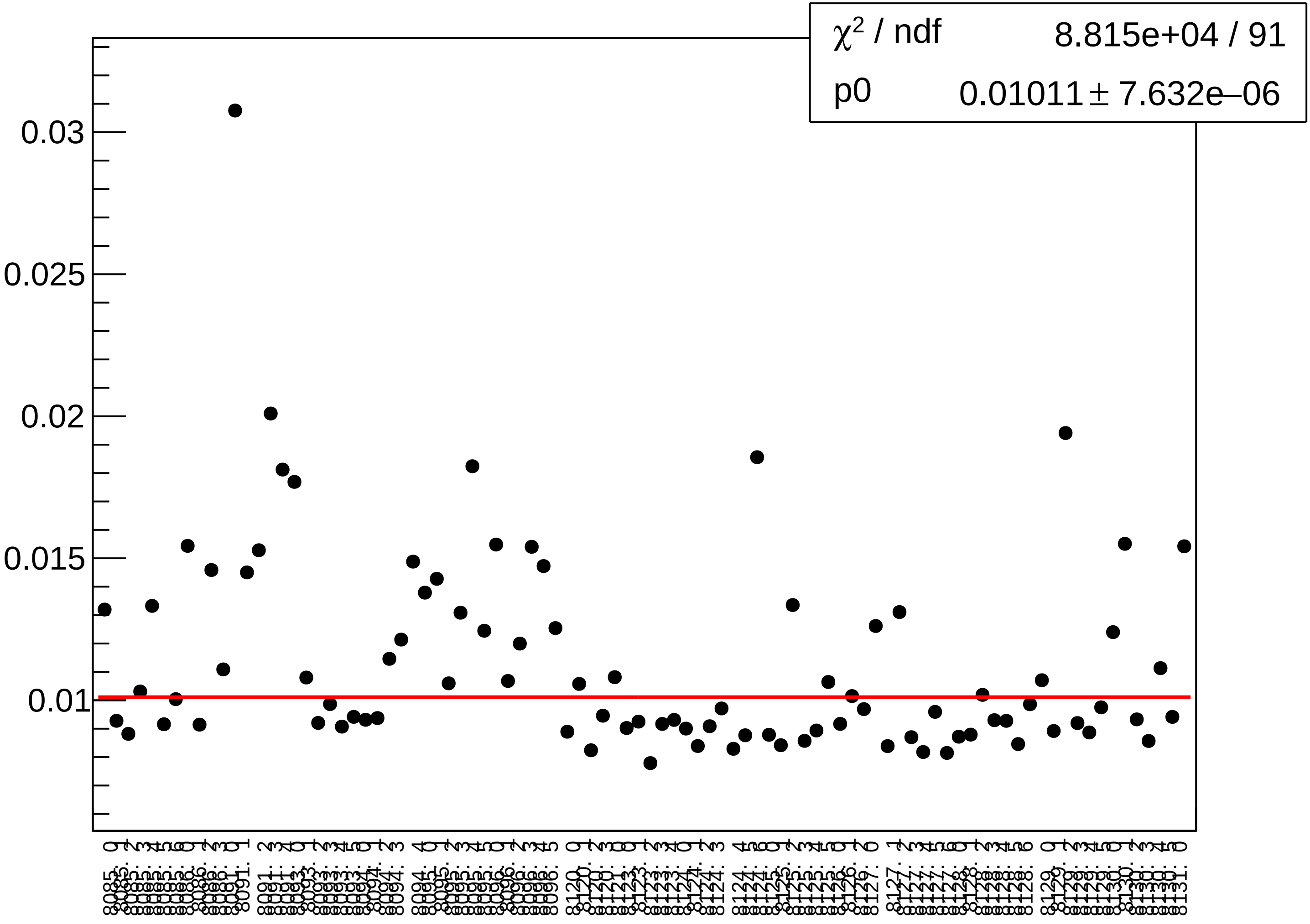


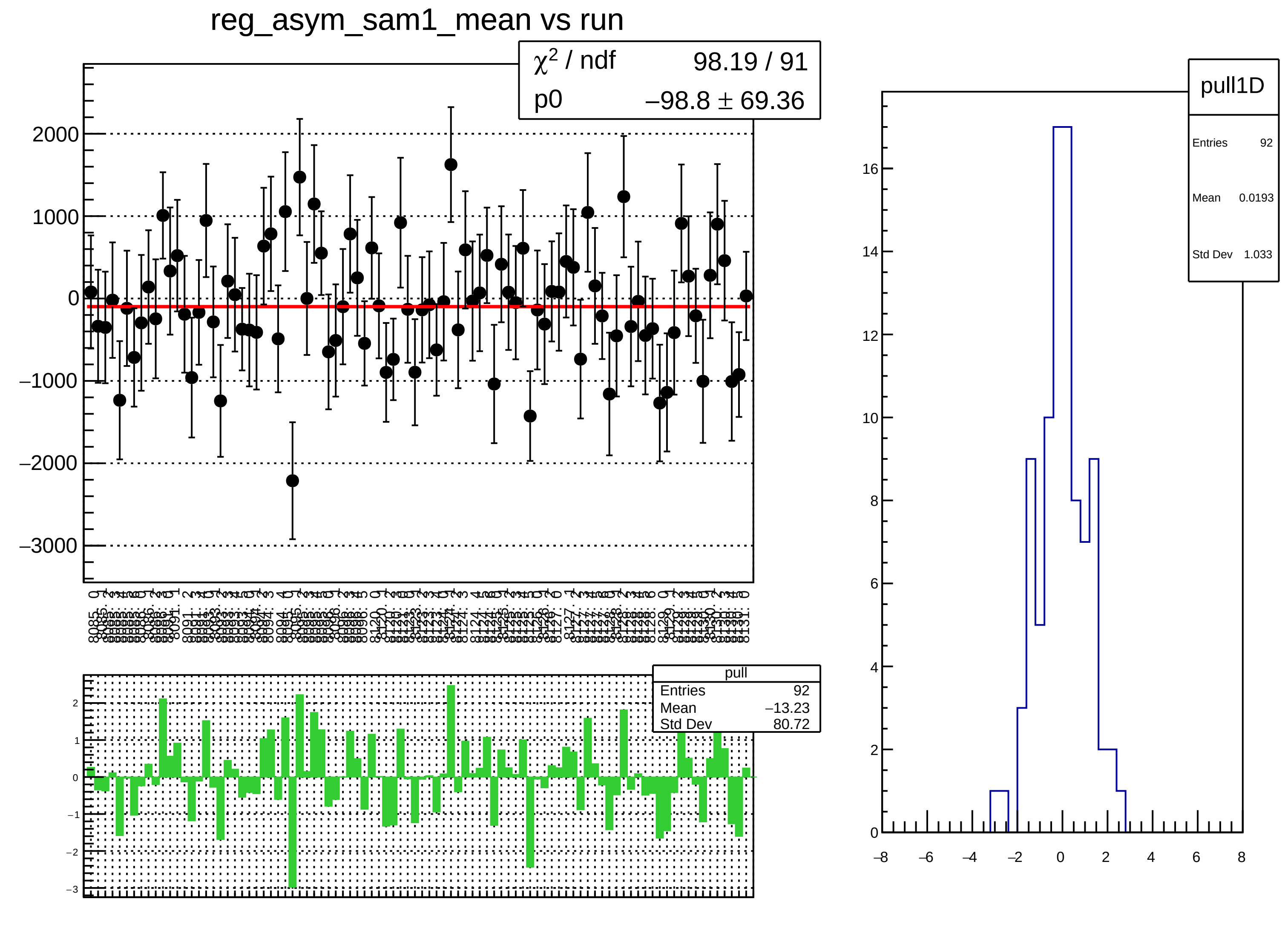
yield_sam7_rms vs run
χ^2 / ndf 8.833e+04 / 91
p0 0.005326 ± 4.021e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004



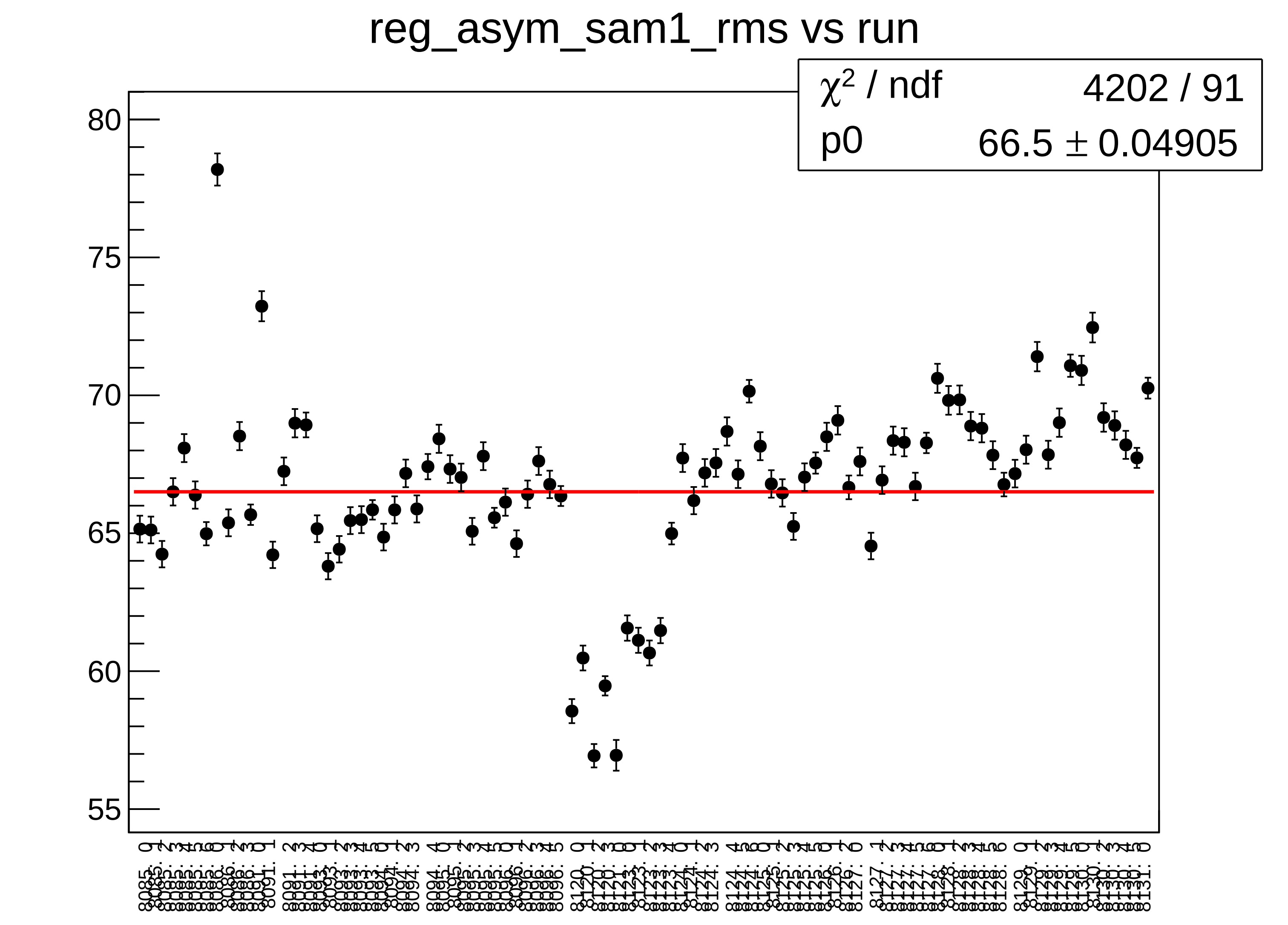
yield_sam8_mean vs run
χ^2 / ndf 4.322e+06 / 91
p0 8.897 ± 1.079e−05
pull
Entries 92
Mean −366.4
Std Dev 406
pull1D
Entries 92
Mean 1.53
Std Dev 5.537

yield_sam8_rms vs run

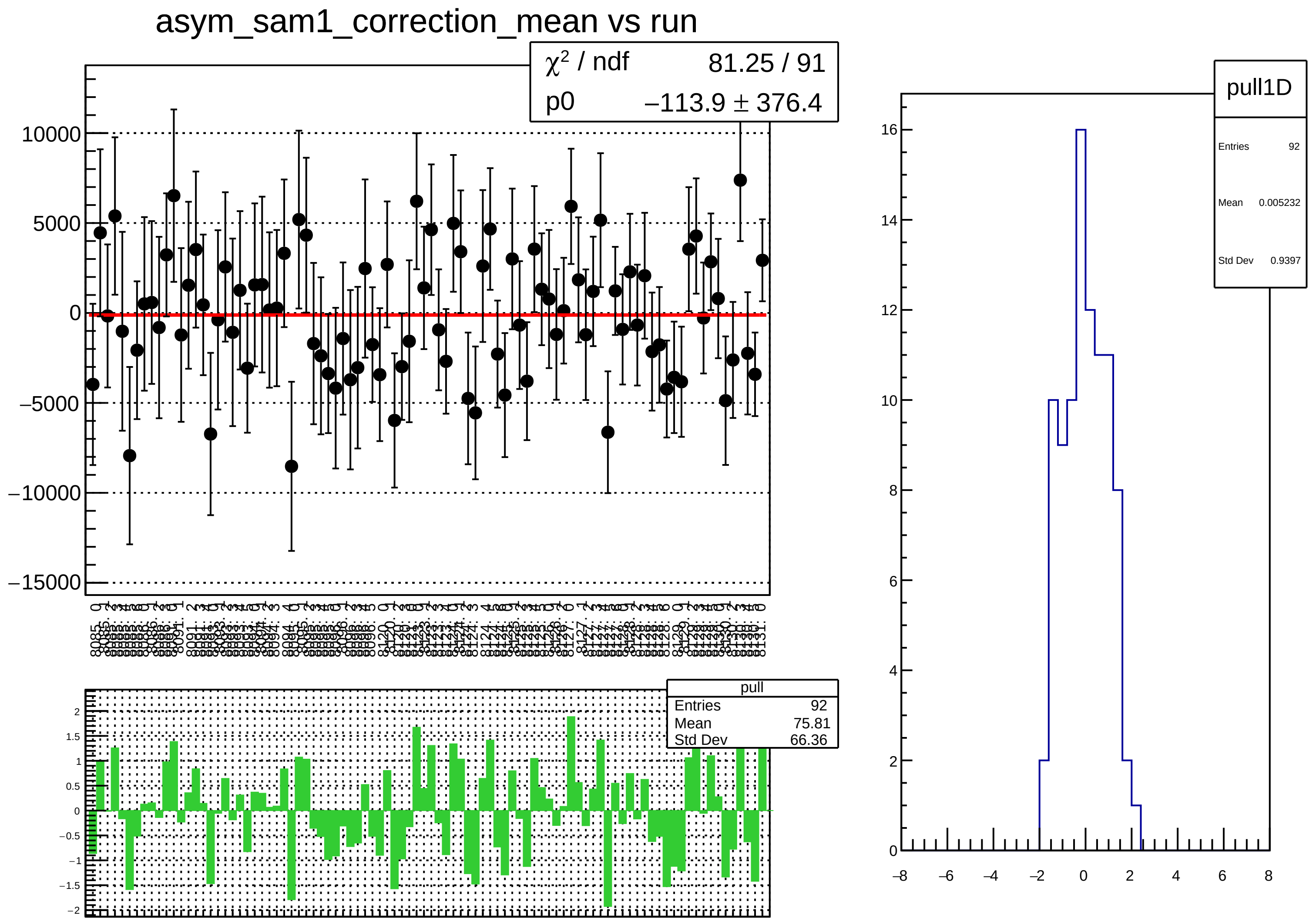




reg_asym_sam1_mean vs run
χ^2 / ndf 98.19 / 91
p0 −98.8 ± 69.36
pull
Entries 92
Mean −13.23
Std Dev 80.72
pull1D
Entries 92
Mean 0.0193
Std Dev 1.033

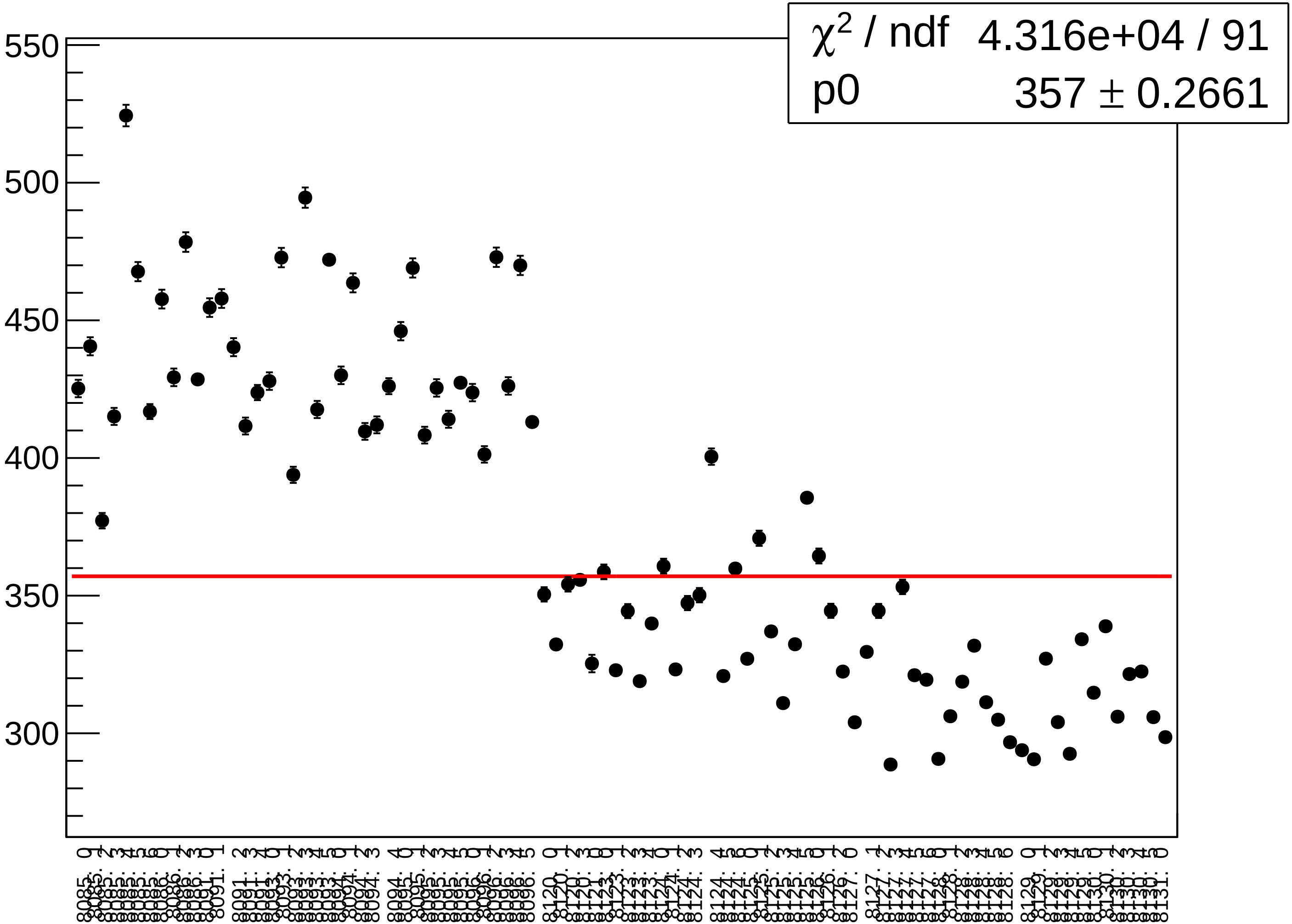


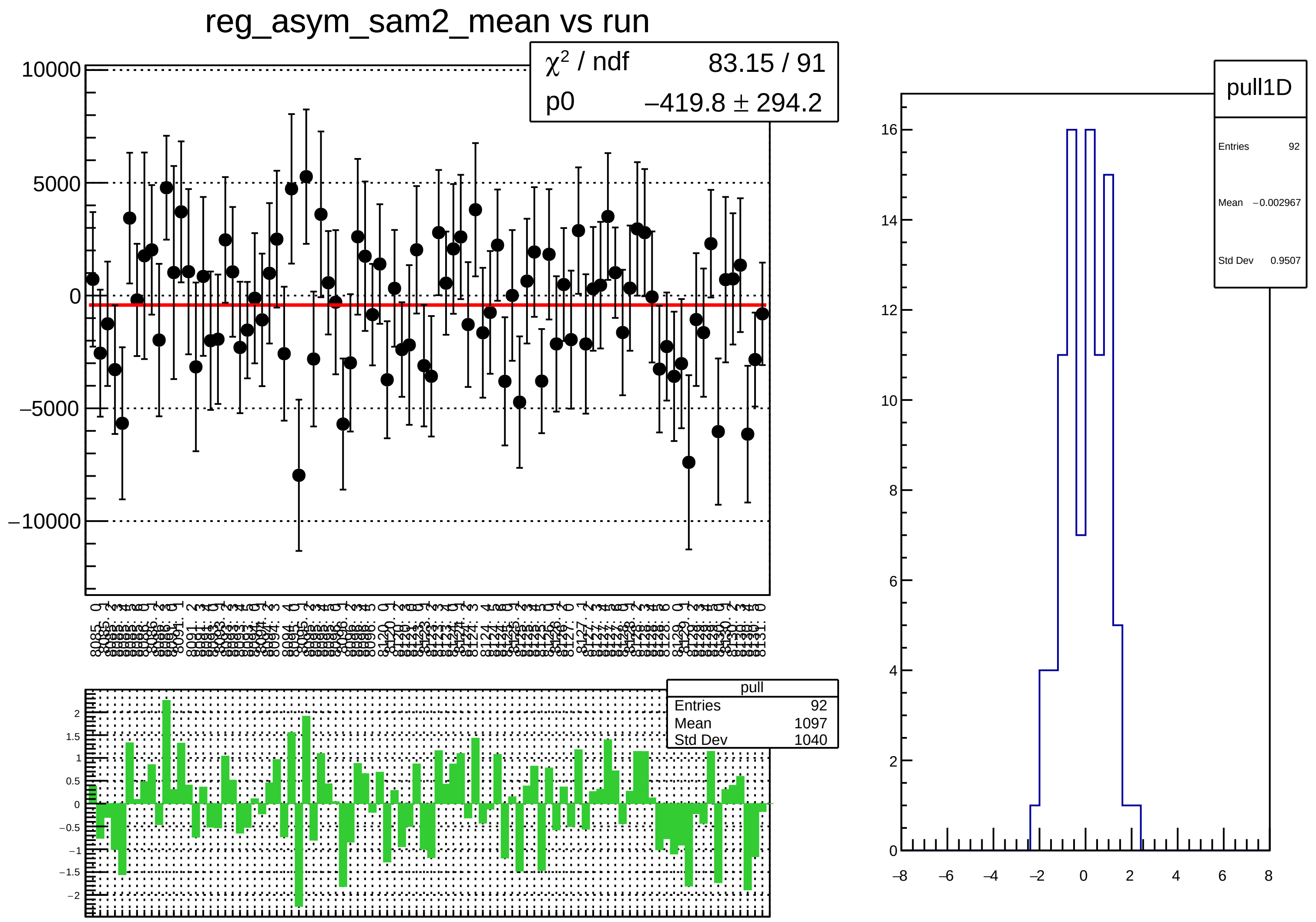
reg_asym_sam1_rms vs run
χ^2 / ndf 4202 / 91
p0 66.5 ± 0.04905
80
75
70
65
60
55

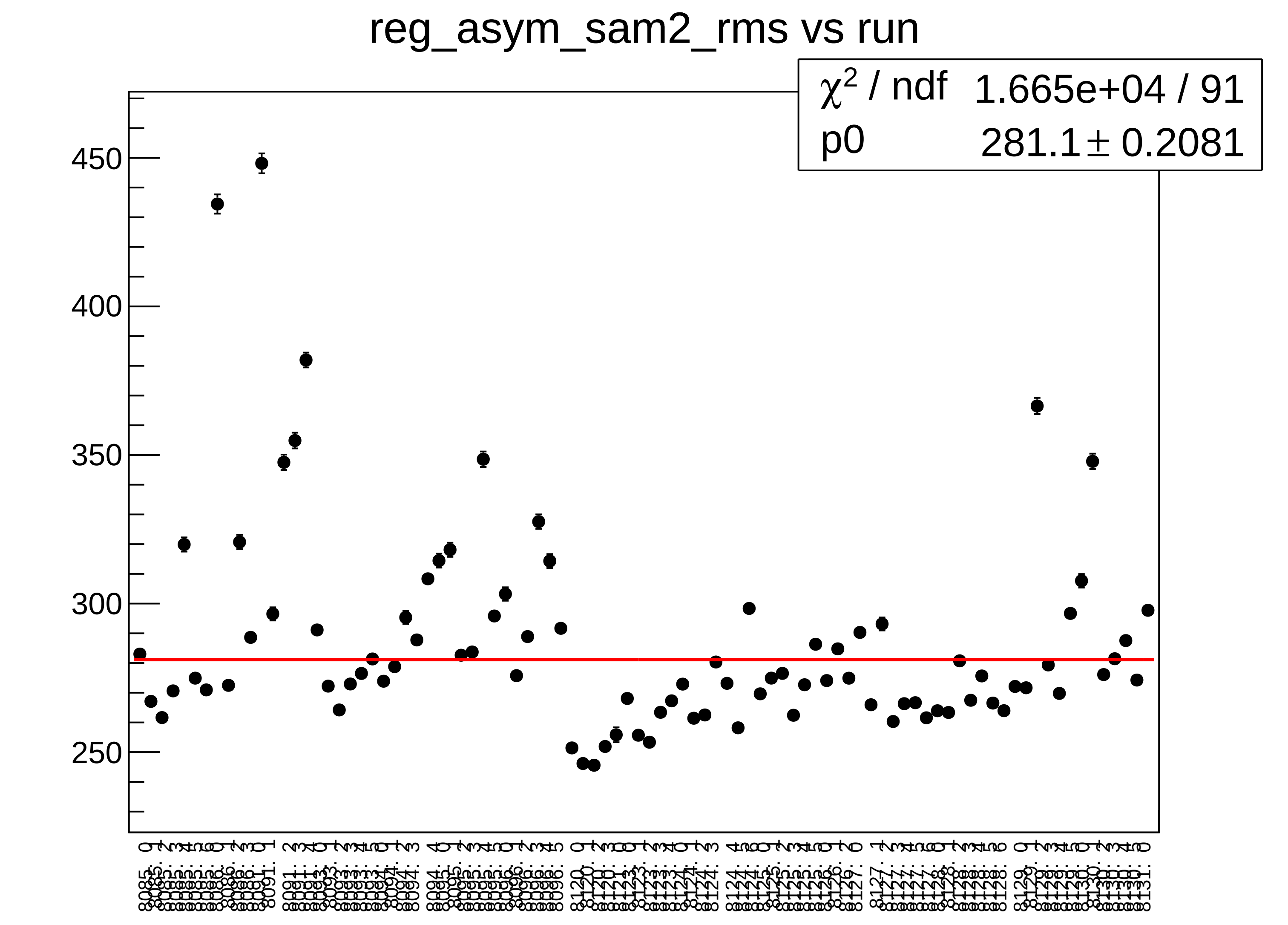


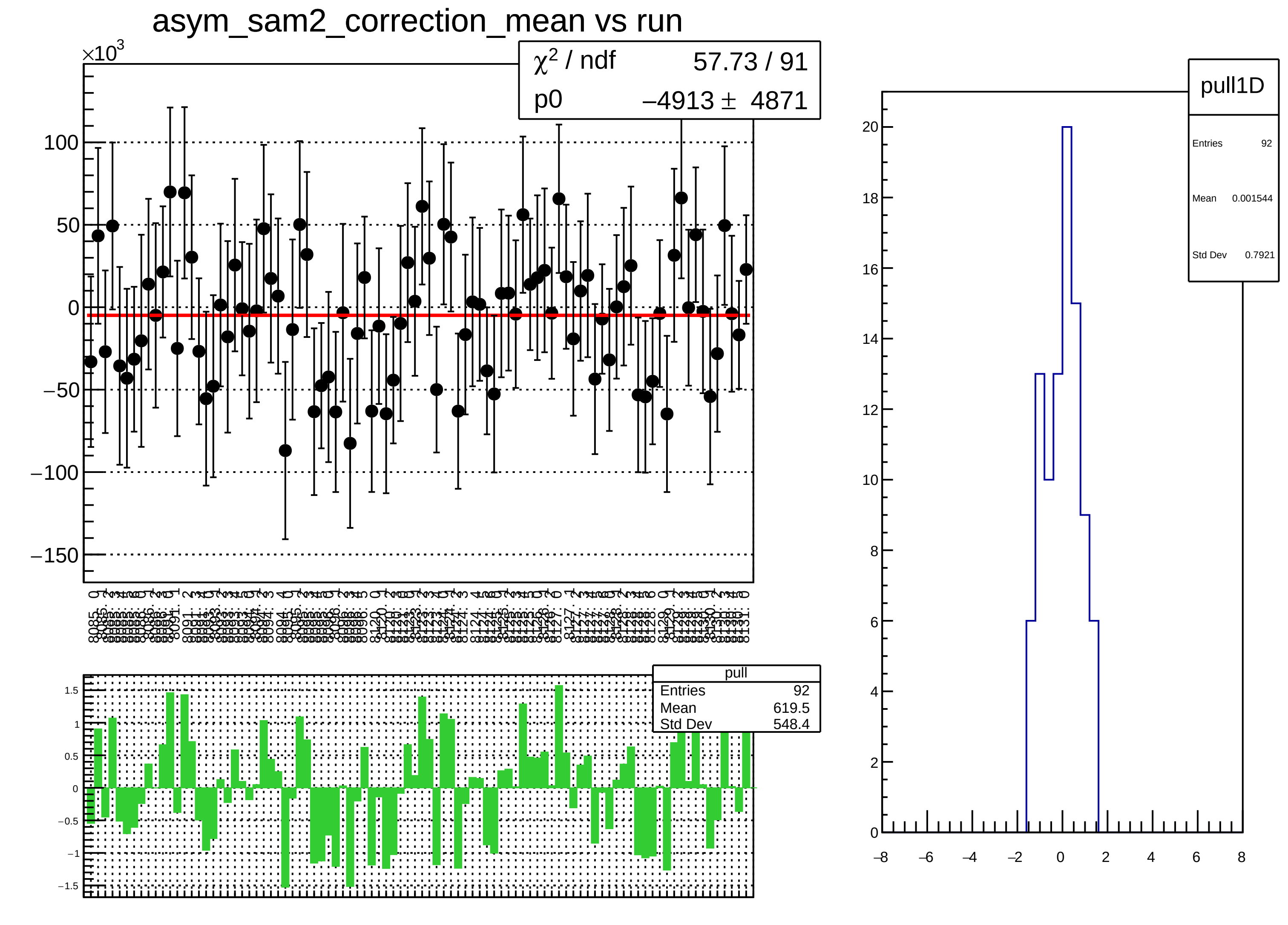
asym_sam1_correction_mean vs run
χ^2 / ndf 81.25 / 91
p0 −113.9 ± 376.4
pull
Entries 92
Mean 75.81
Std Dev 66.36
pull1D
Entries 92
Mean 0.005232
Std Dev 0.9397

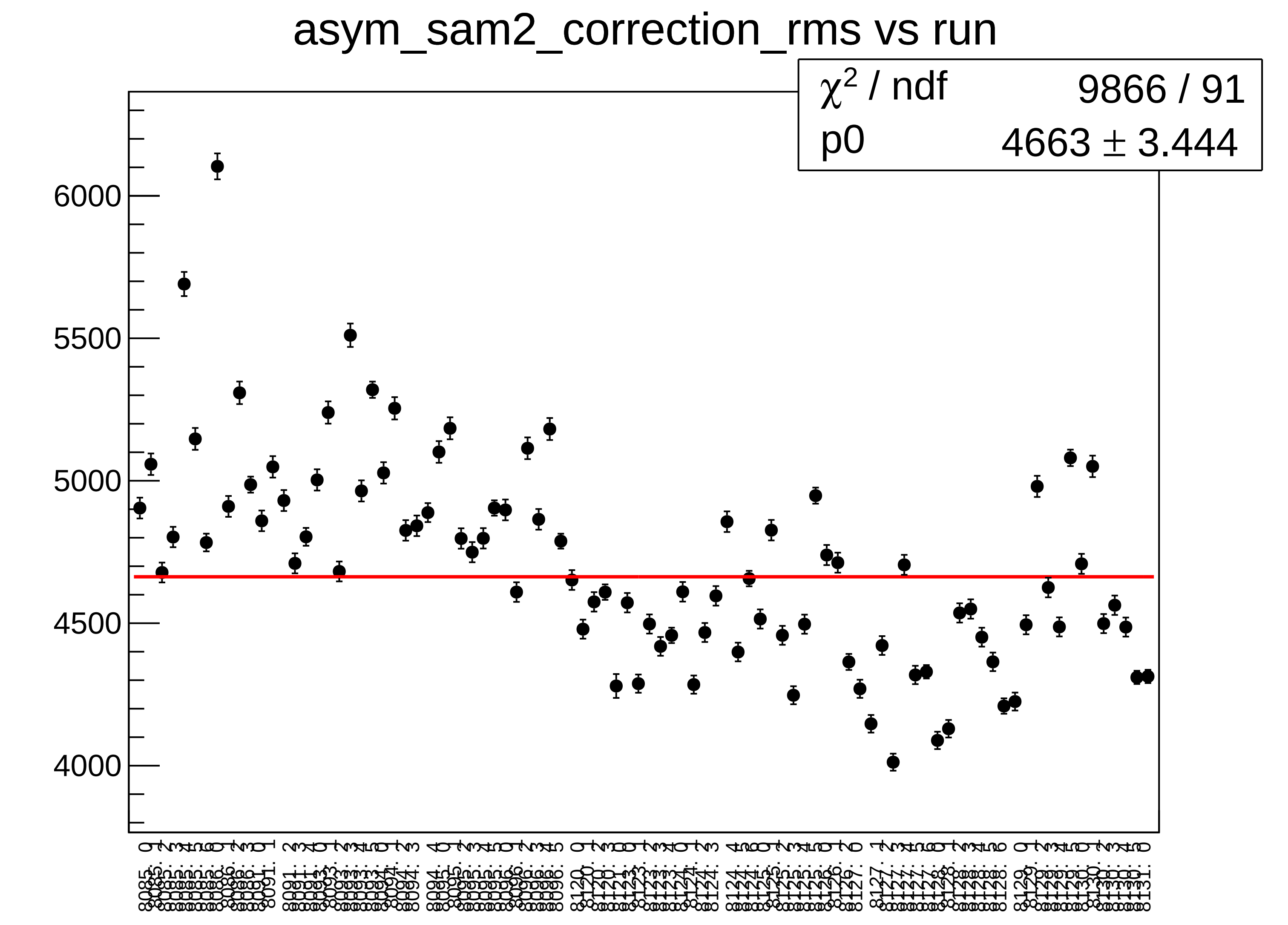
asym_sam1_correction_rms vs run



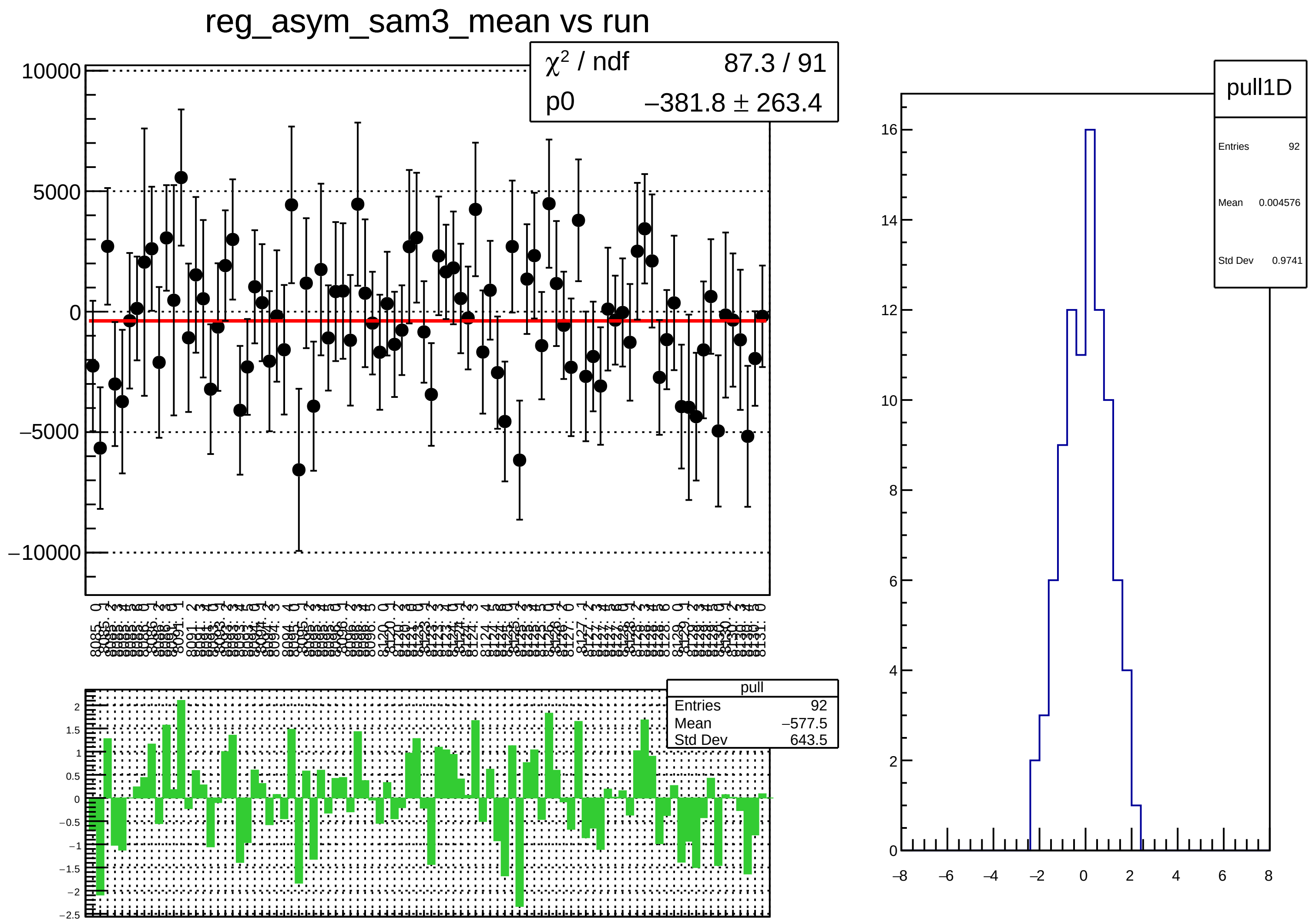

reg_asym_sam2_mean vs run
χ^2 / ndf 83.15 / 91
p0 −419.8 ± 294.2
pull
Entries 92
Mean 1097
Std Dev 1040
pull1D
Entries 92
Mean −0.002967
Std Dev 0.9507


reg_asym_sam2_rms vs run
χ^2 / ndf 1.665e+04 / 91
p0 281.1 ± 0.2081
450
400
350
300
250

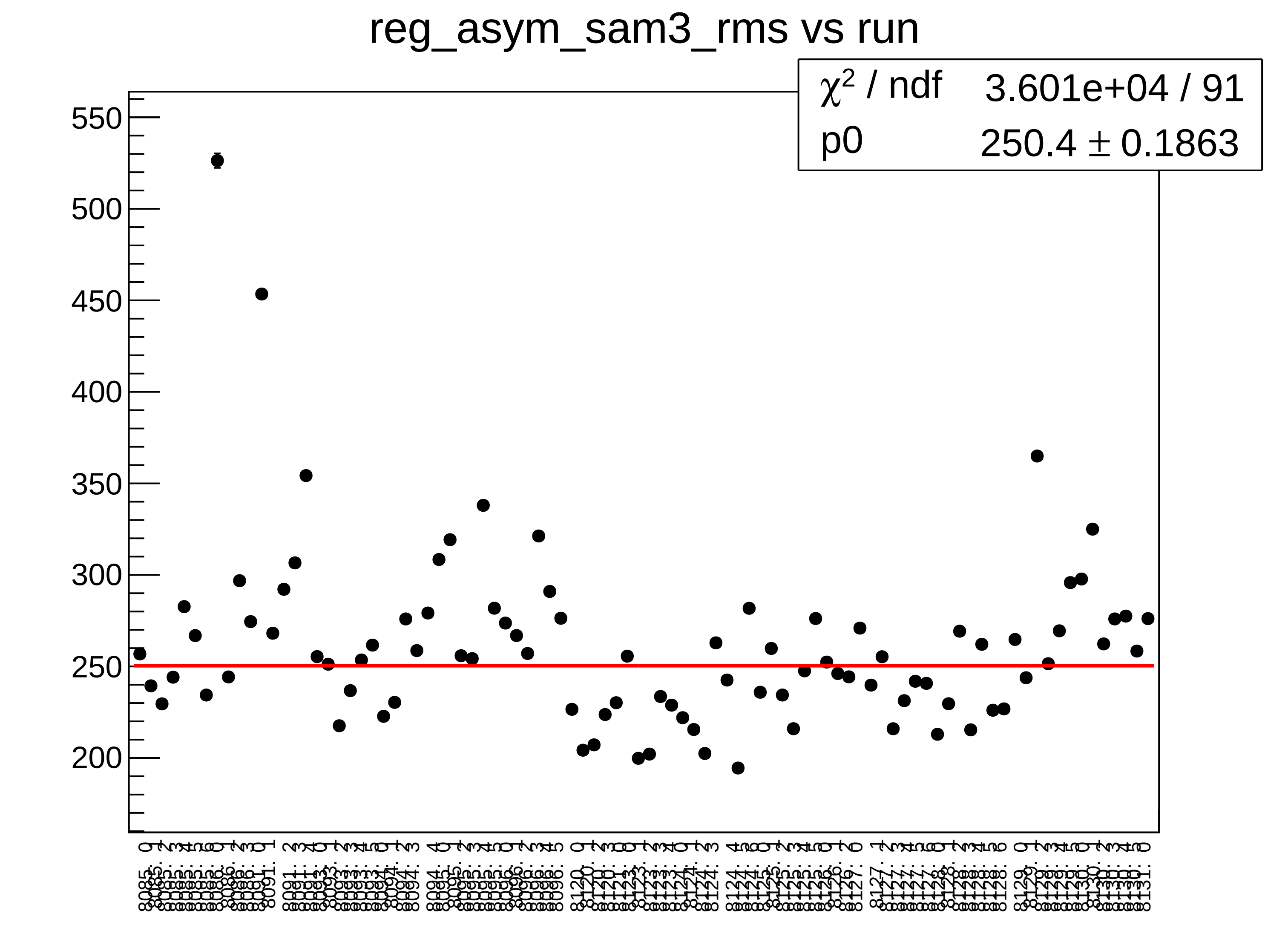

asym_sam2_correction_mean vs run
$\times10^3$
χ^2 / ndf 57.73 / 91
p0 −4913 ± 4871
pull
Entries 92
Mean 619.5
Std Dev 548.4
pull1D
Entries 92
Mean 0.001544
Std Dev 0.7921

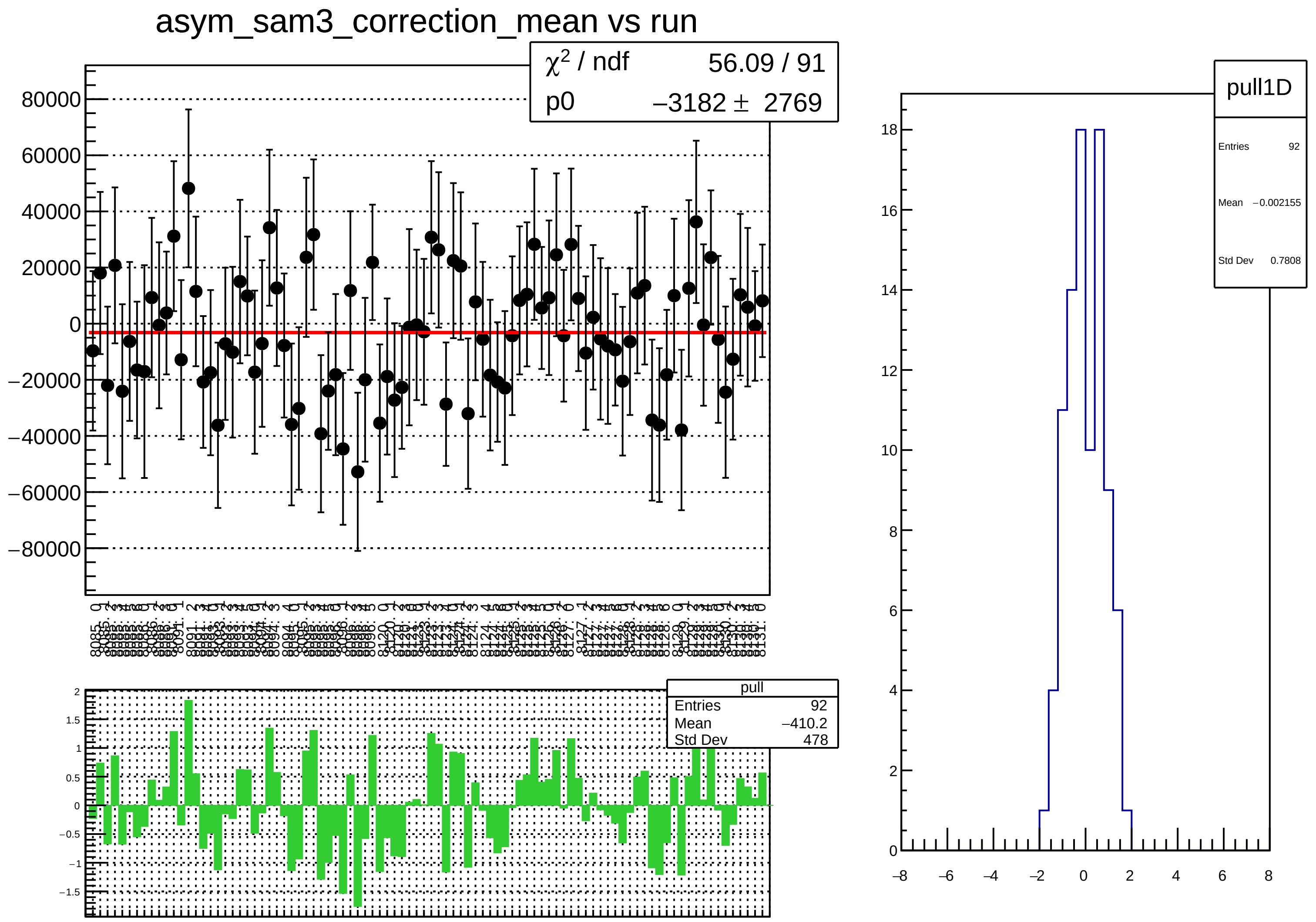


asym_sam2_correction_rms vs run
χ2 / ndf 9866 / 91
p0 4663 ± 3.444
6000
5500
5000
4500
4000

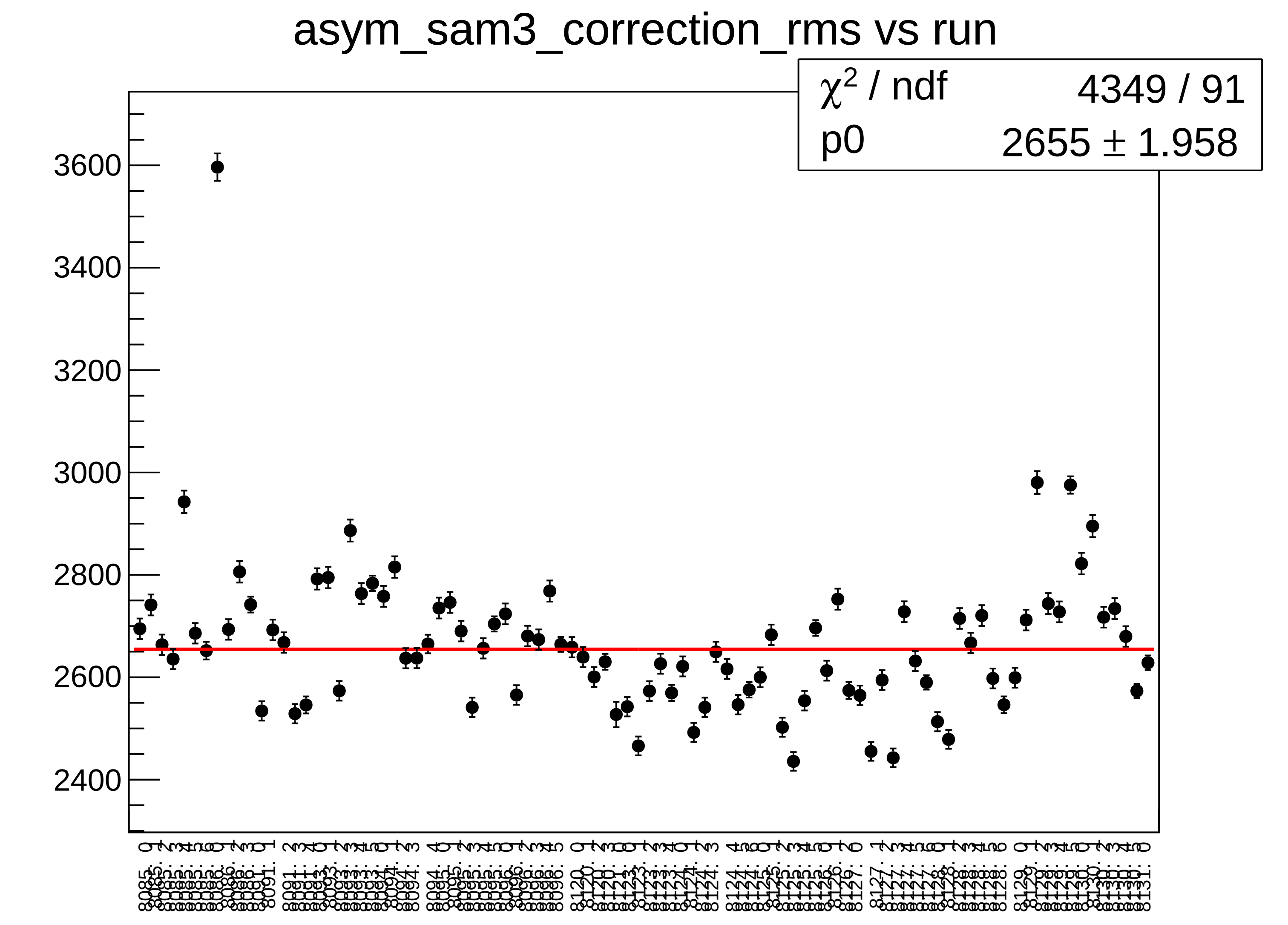


reg_asym_sam3_mean vs run
χ^2 / ndf 87.3 / 91
p0 −381.8 ± 263.4
pull
Entries 92
Mean −577.5
Std Dev 643.5
pull1D
Entries 92
Mean 0.004576
Std Dev 0.9741

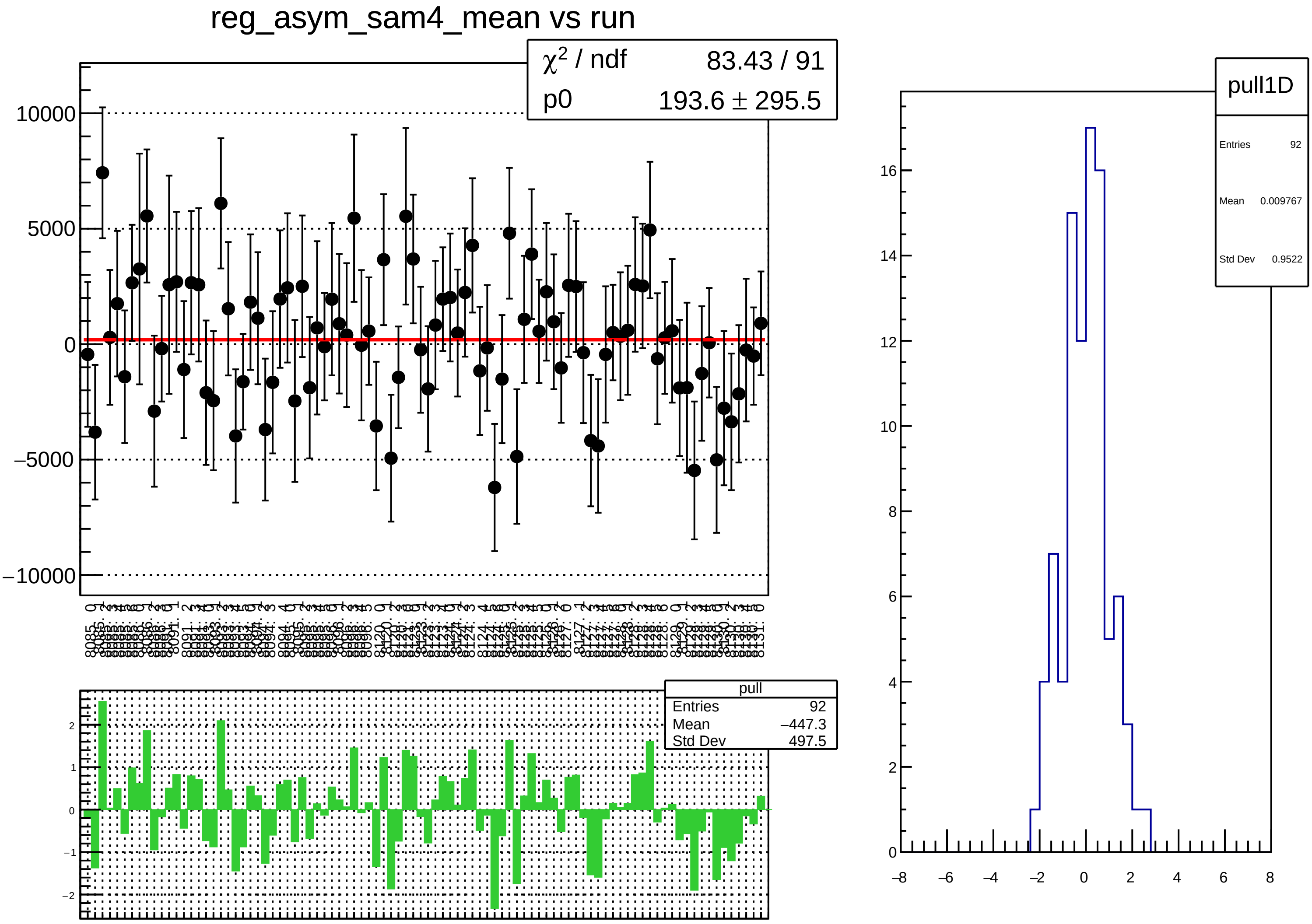

reg_asym_sam3_rms vs run
χ2 / ndf 3.601e+04 / 91
p0 250.4 ± 0.1863
550
500
450
400
350
300
250
200

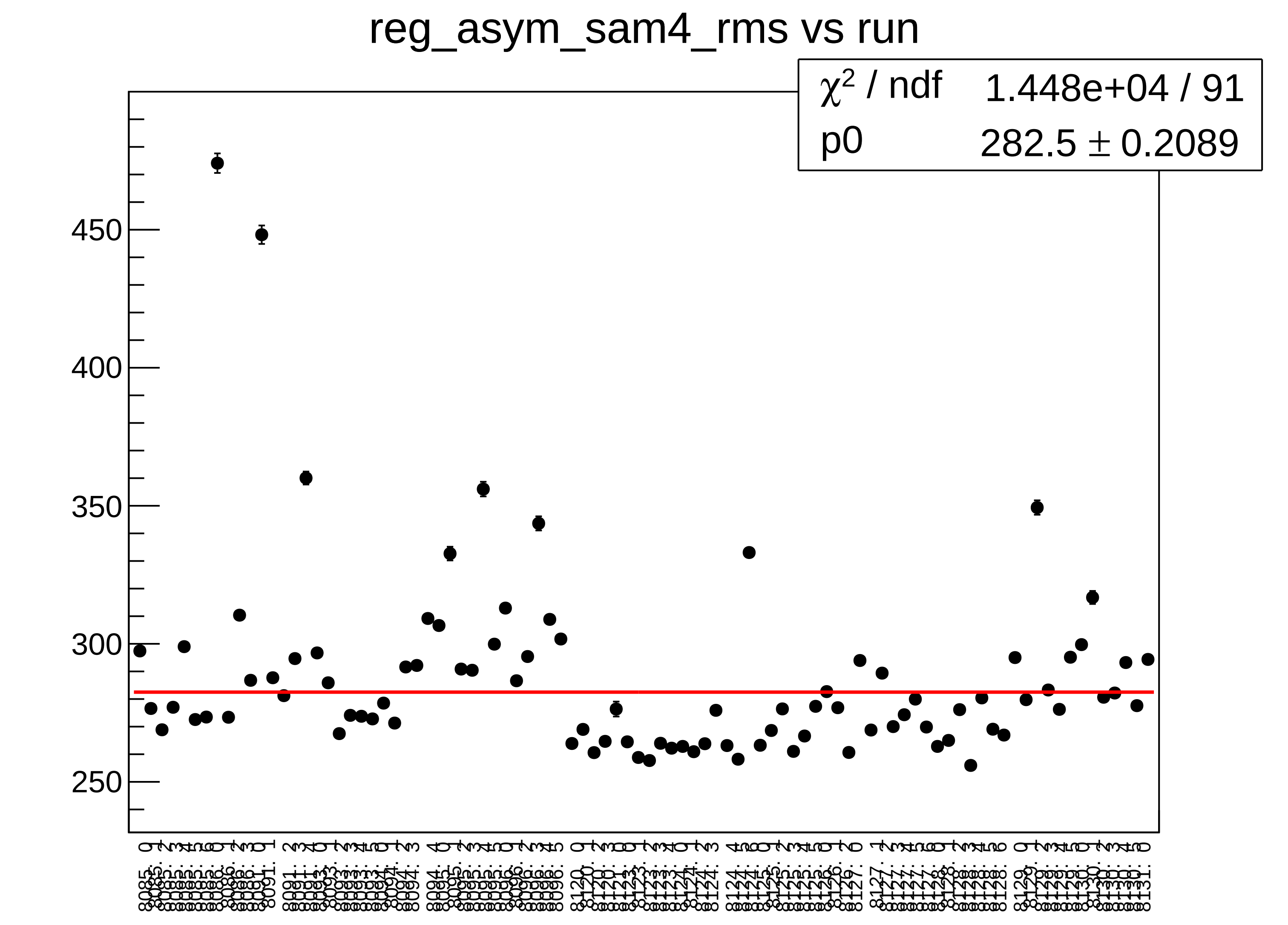


asym_sam3_correction_mean vs run
χ^2 / ndf 56.09 / 91
p0 −3182 ± 2769
pull
Entries 92
Mean −410.2
Std Dev 478
pull1D
Entries 92
Mean −0.002155
Std Dev 0.7808

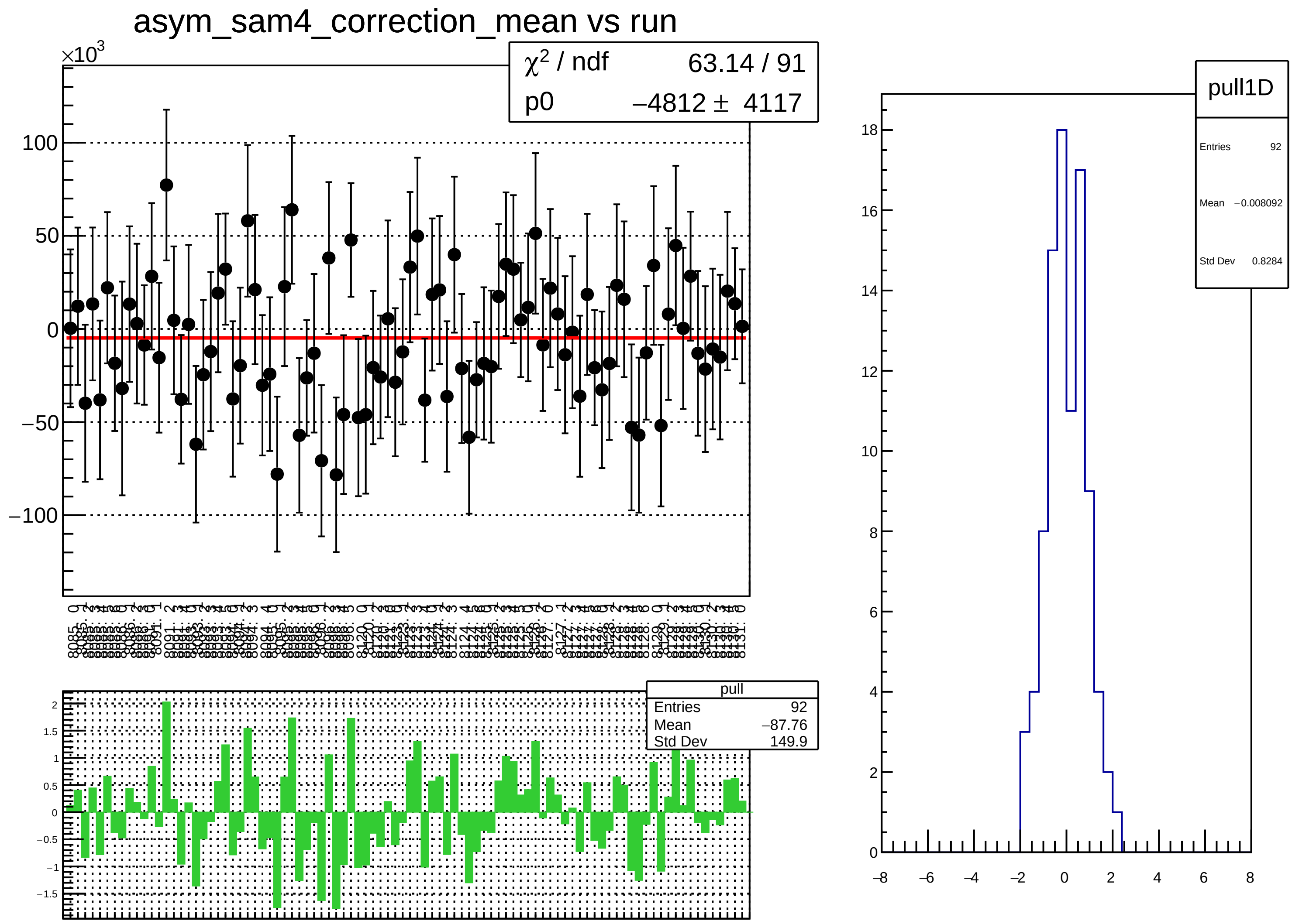


asym_sam3_correction_rms vs run
χ^2 / ndf 4349 / 91
p0 2655 ± 1.958
3600
3400
3200
3000
2800
2600
2400

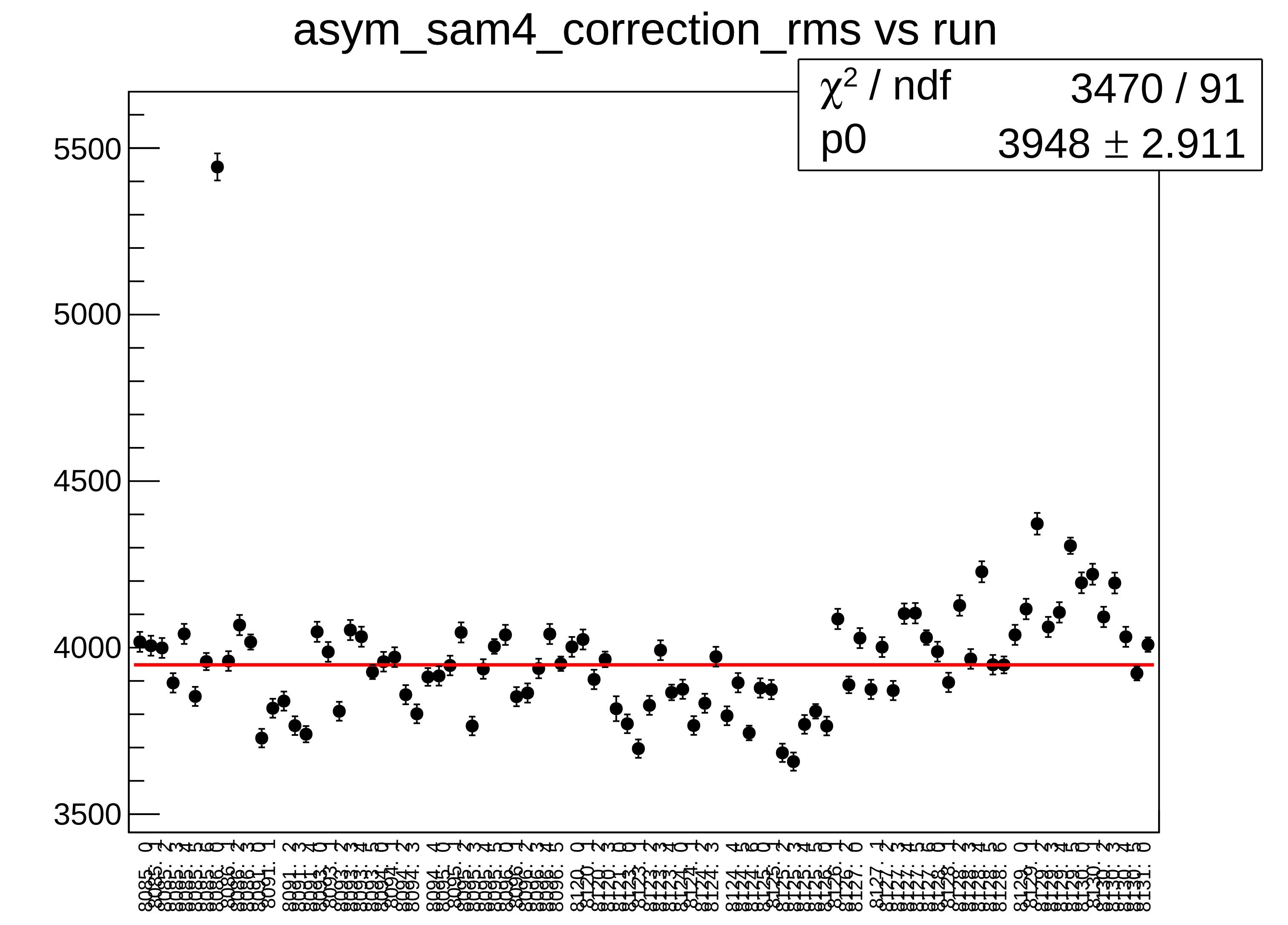

reg_asym_sam4_mean vs run
χ^2 / ndf 83.43 / 91
p0 193.6 ± 295.5
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −447.3
Std Dev 497.5
pull1D
Entries 92
Mean 0.009767
Std Dev 0.9522

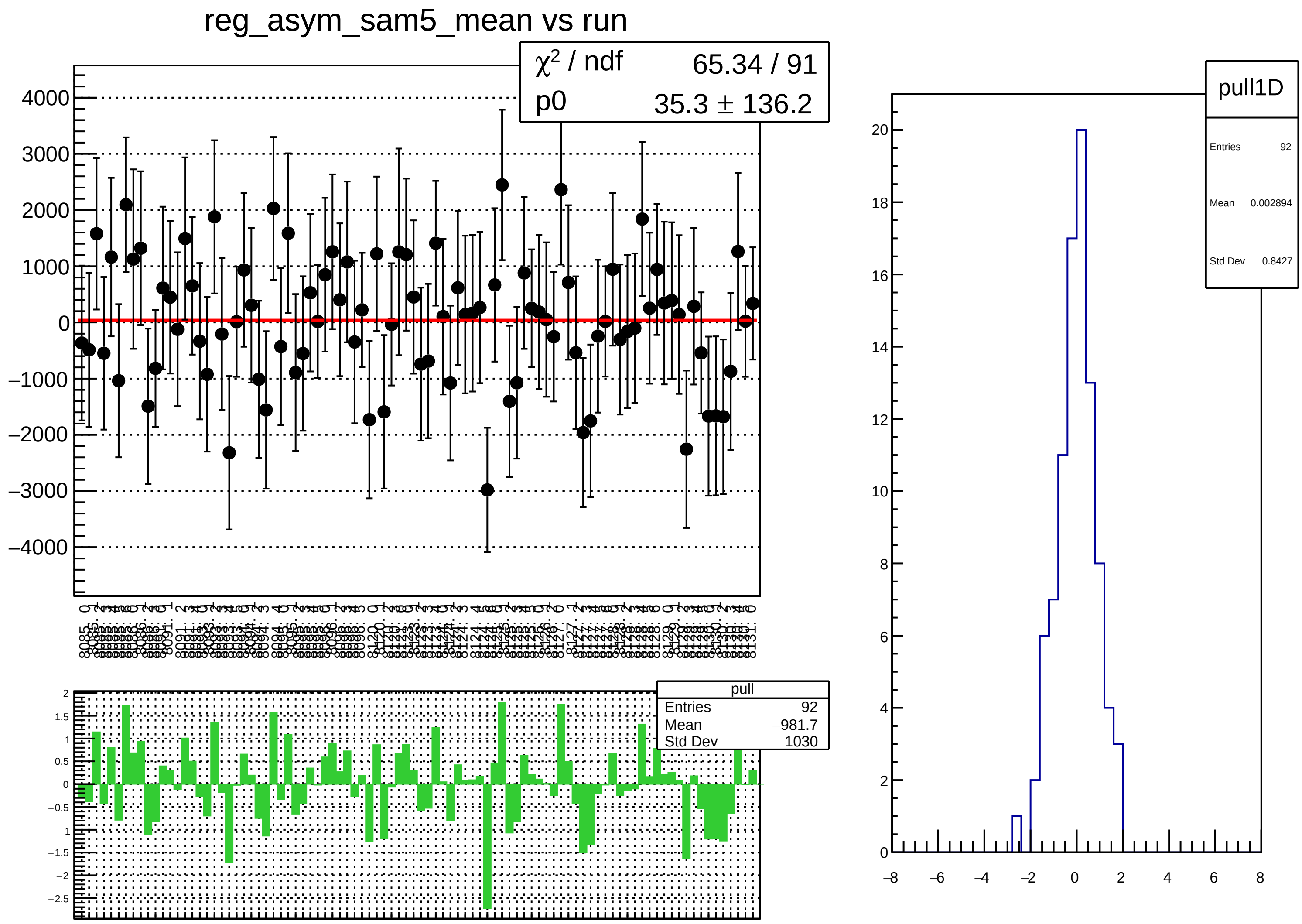


reg_asym_sam4_rms vs run
χ^2 / ndf 1.448e+04 / 91
p0 282.5 ± 0.2089
450
400
350
300
250

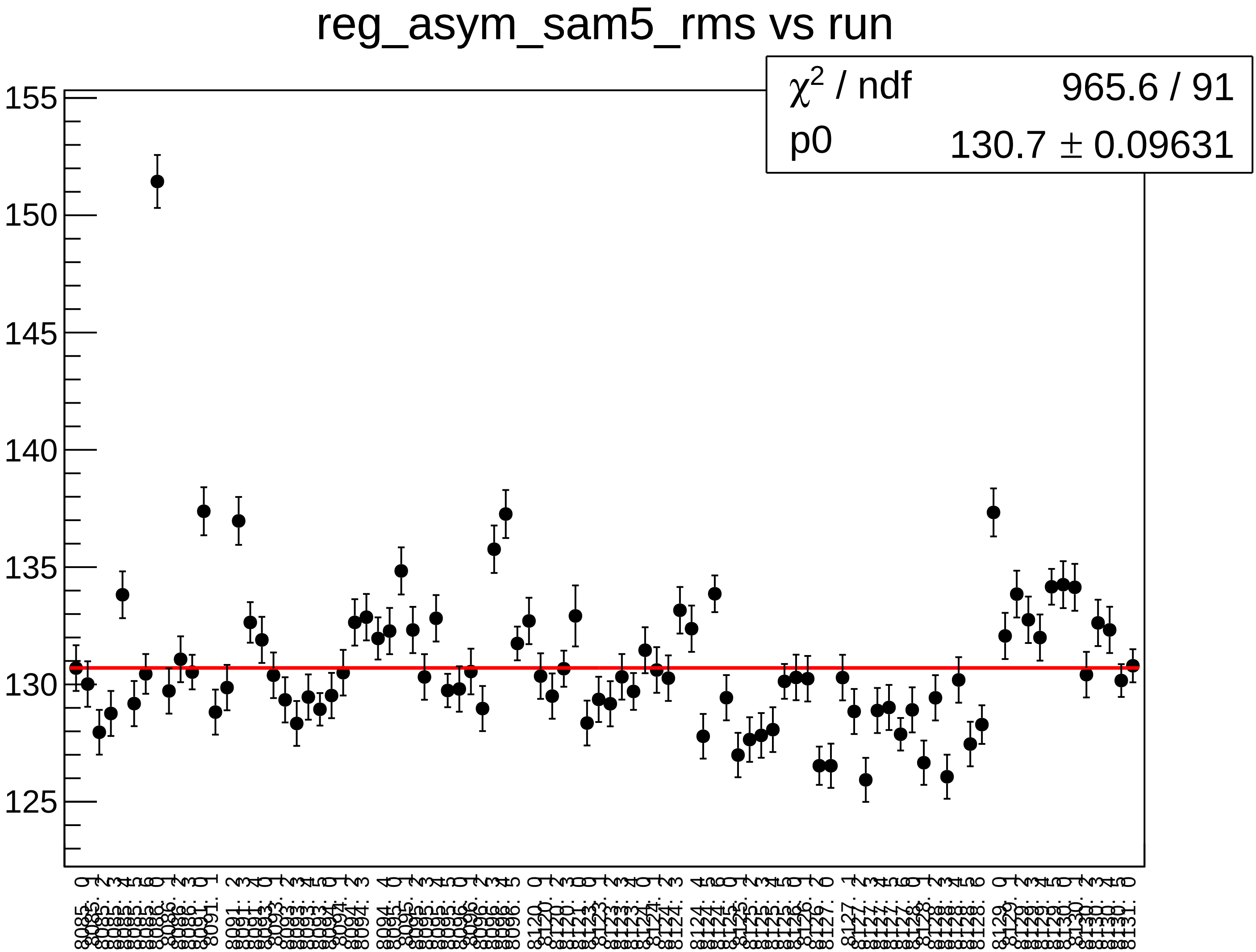


asym_sam4_correction_mean vs run
$\times10^3$
χ^2 / ndf 63.14 / 91
p0 −4812 ± 4117
100
50
0
−50
−100
pull
Entries 92
Mean −87.76
Std Dev 149.9
pull1D
Entries 92
Mean −0.008092
Std Dev 0.8284

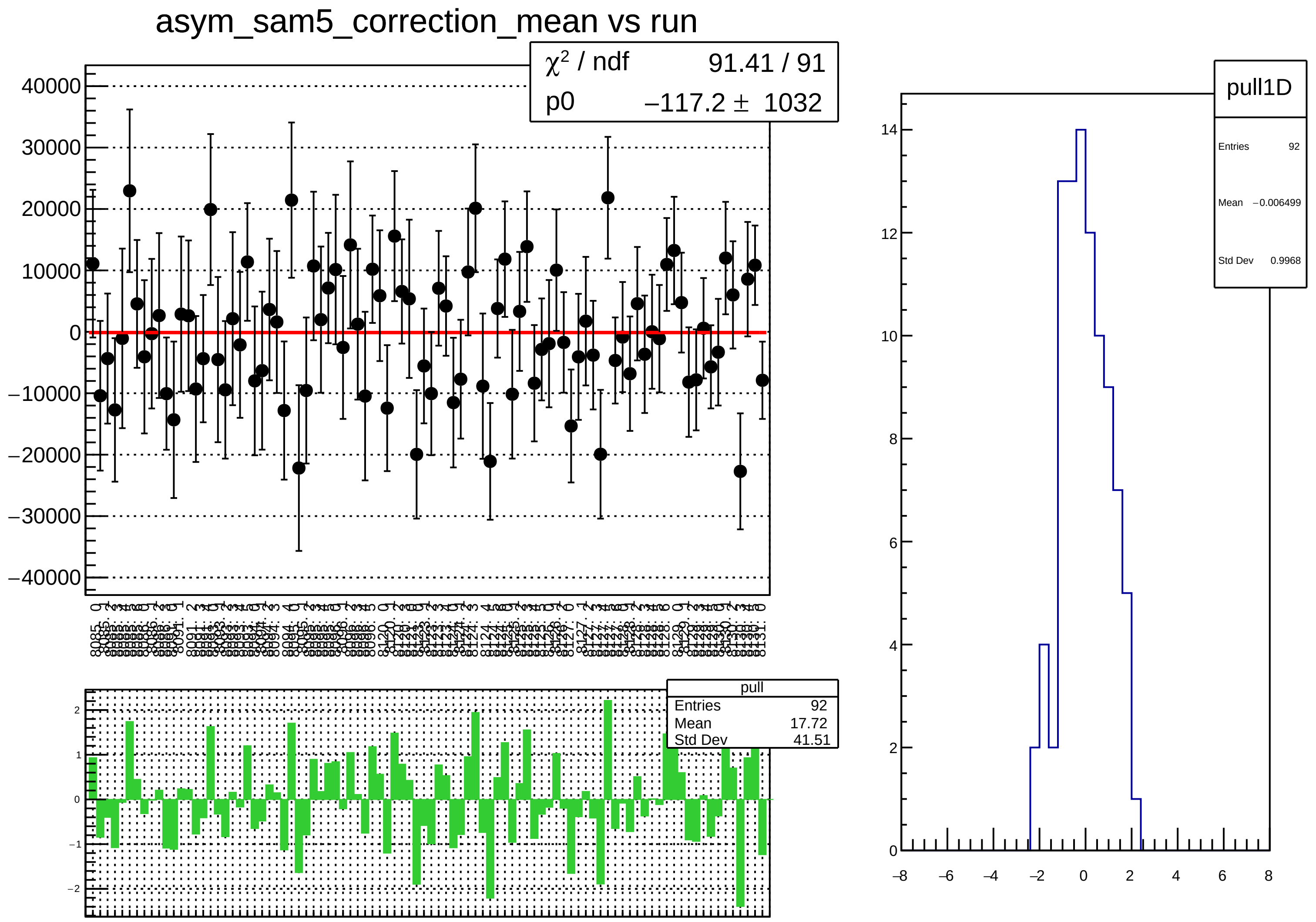

asym_sam4_correction_rms vs run
χ2 / ndf 3470 / 91
p0 3948 ± 2.911
5500
5000
4500
4000
3500



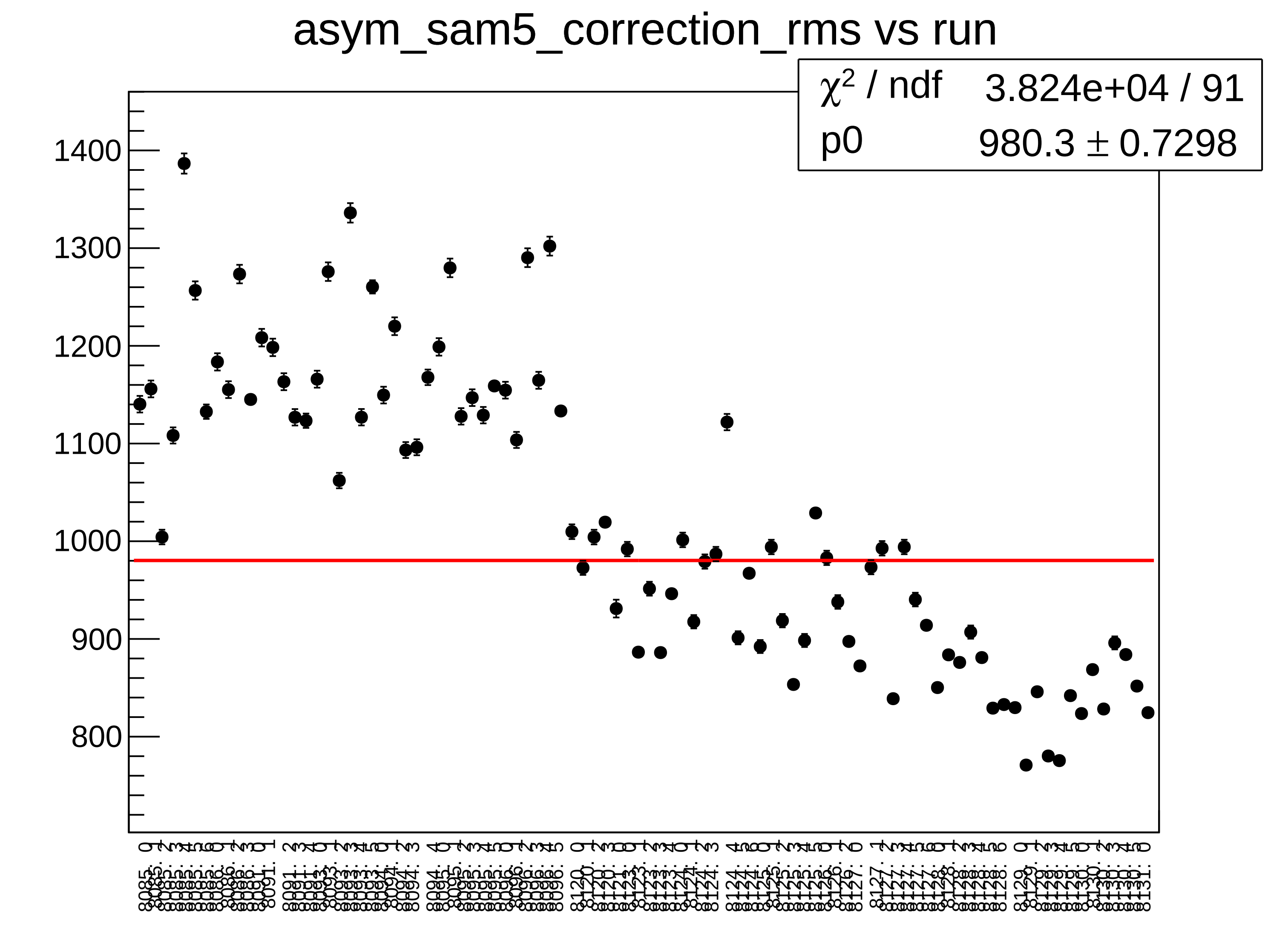
reg_asym_sam5_mean vs run
χ^2 / ndf 65.34 / 91
p0 35.3 ± 136.2
pull
Entries 92
Mean −981.7
Std Dev 1030
pull1D
Entries 92
Mean 0.002894
Std Dev 0.8427

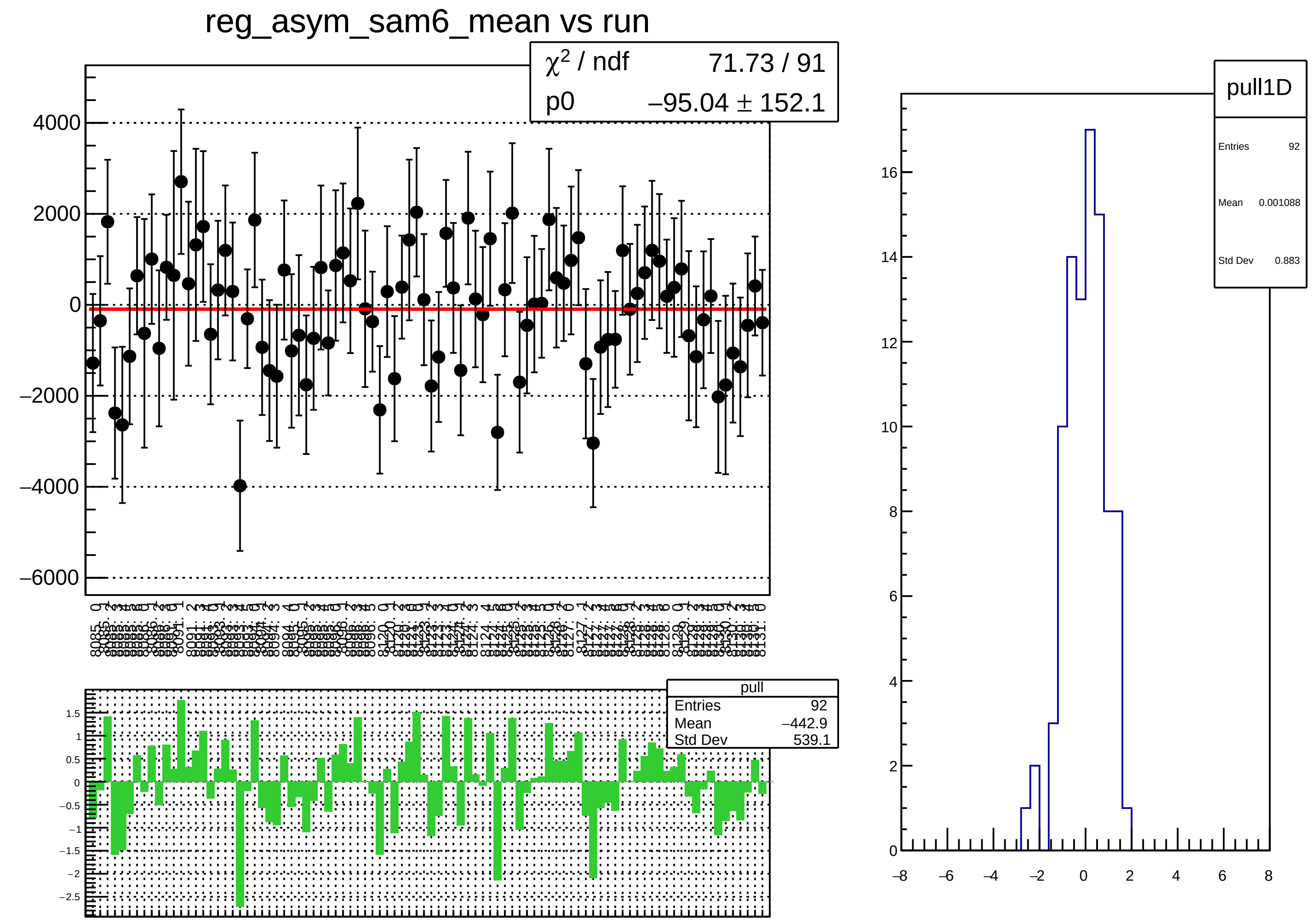


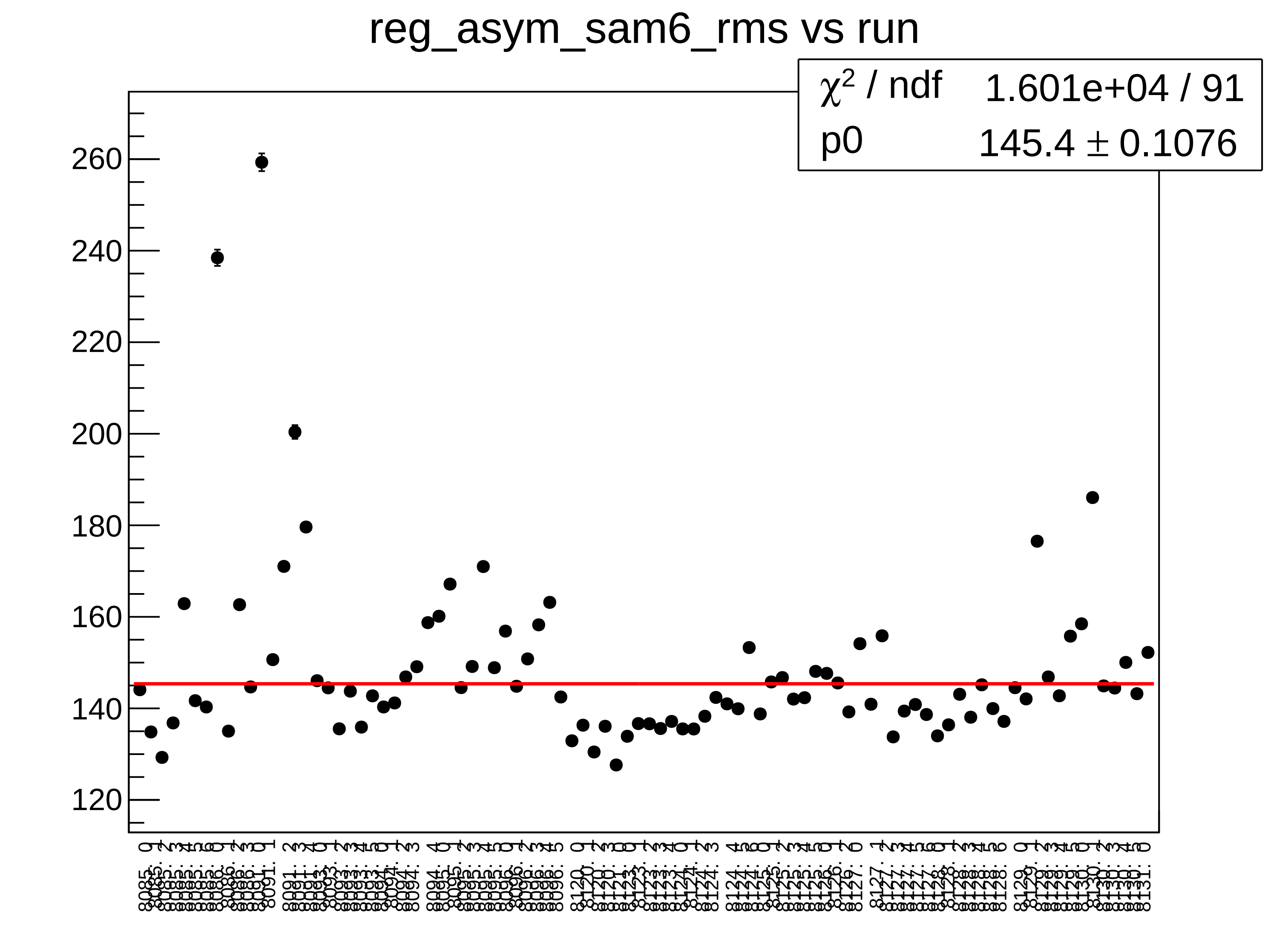
reg_asym_sam5_rms vs run
χ^2 / ndf 965.6 / 91
p0 130.7 ± 0.09631
155
150
145
140
135
130
125



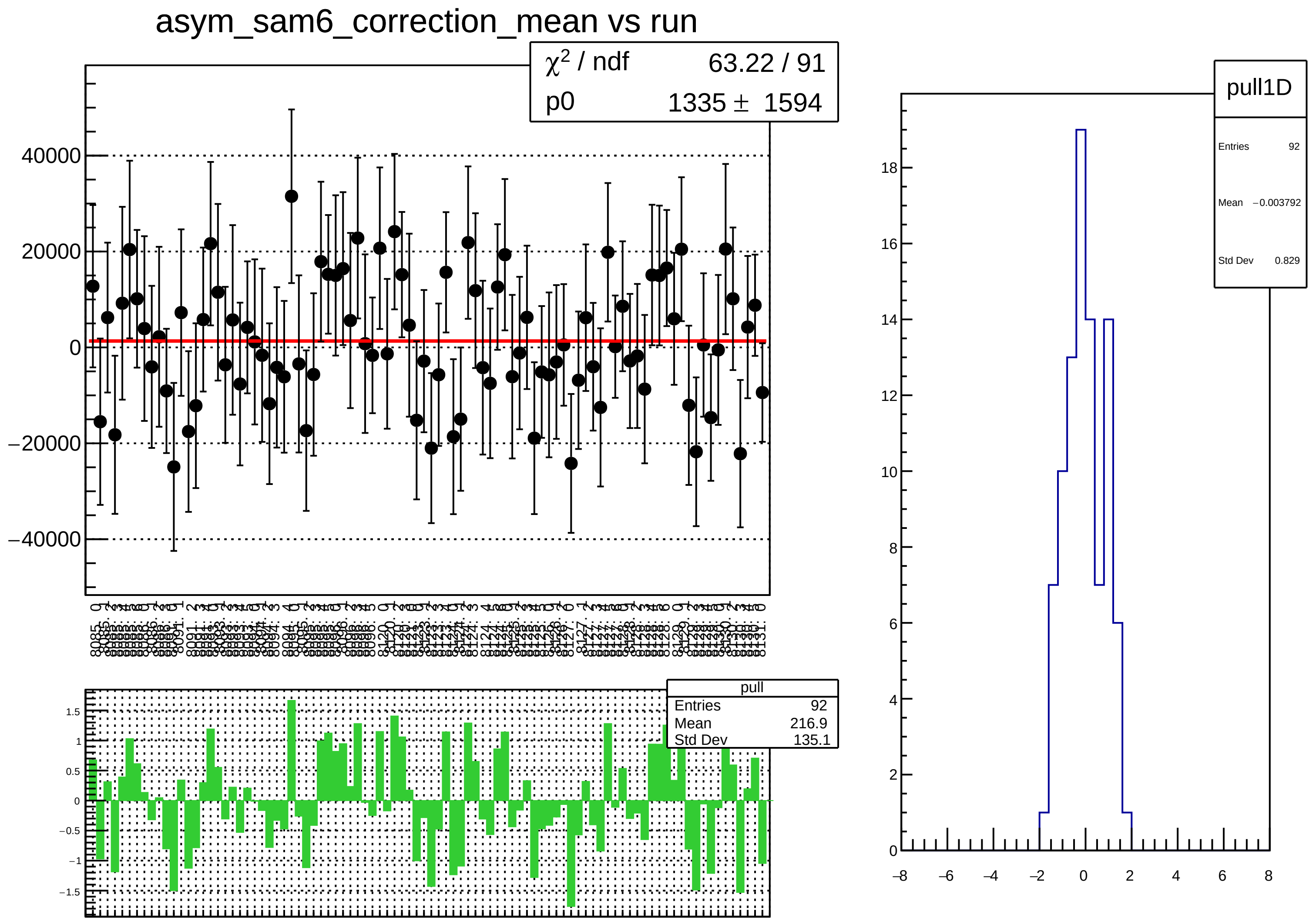
asym_sam5_correction_mean vs run
χ^2 / ndf 91.41 / 91
p0 −117.2 ± 1032
pull
Entries 92
Mean 17.72
Std Dev 41.51
pull1D
Entries 92
Mean −0.006499
Std Dev 0.9968


asym_sam5_correction_rms vs run
χ^2 / ndf 3.824e+04 / 91
p0 980.3 ± 0.7298
1400
1300
1200
1100
1000
900
800

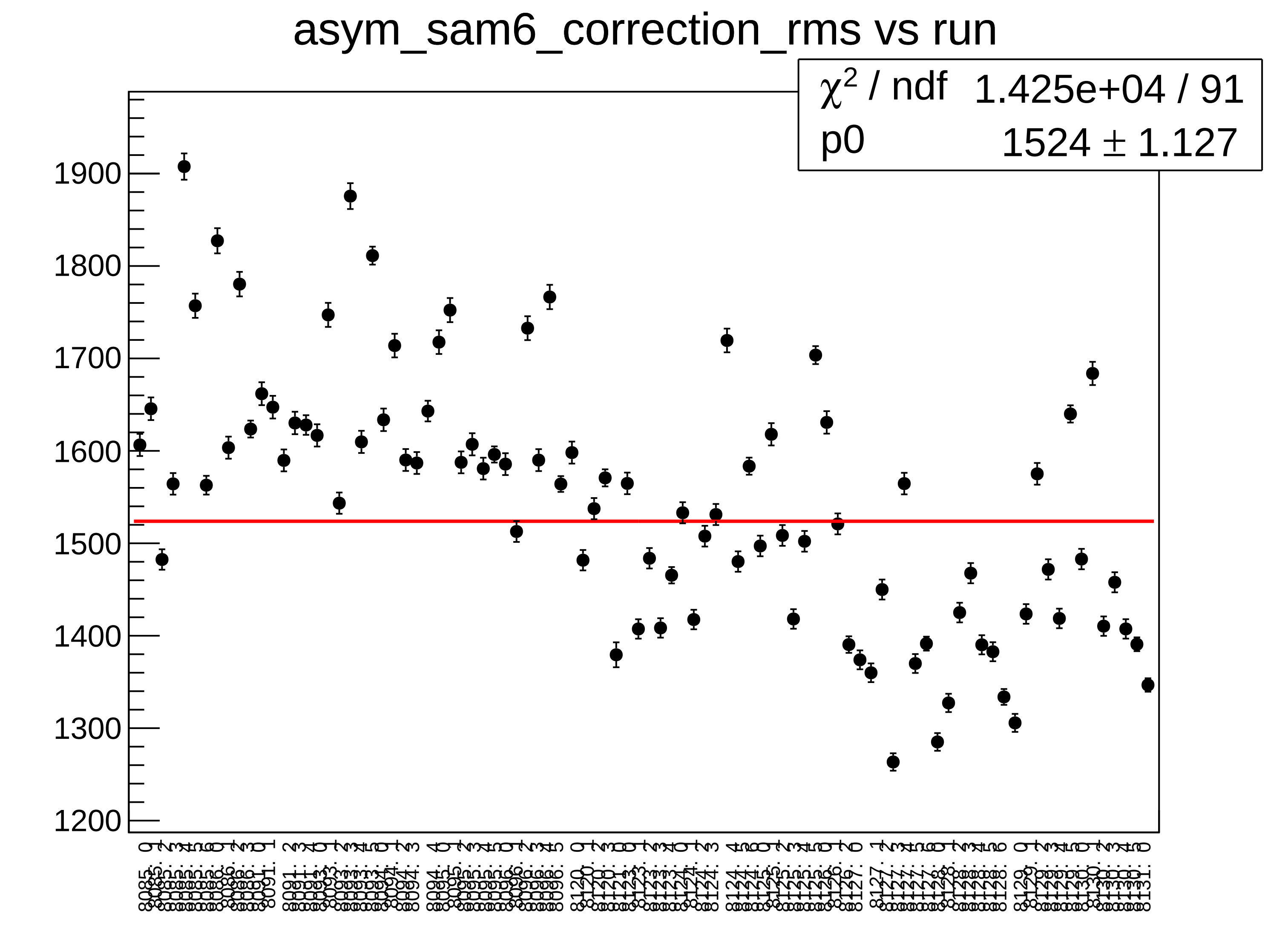

reg_asym_sam6_mean vs run
χ2 / ndf 71.73 / 91
p0 −95.04 ± 152.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean −442.9
Std Dev 539.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean 0.001088
Std Dev 0.883
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

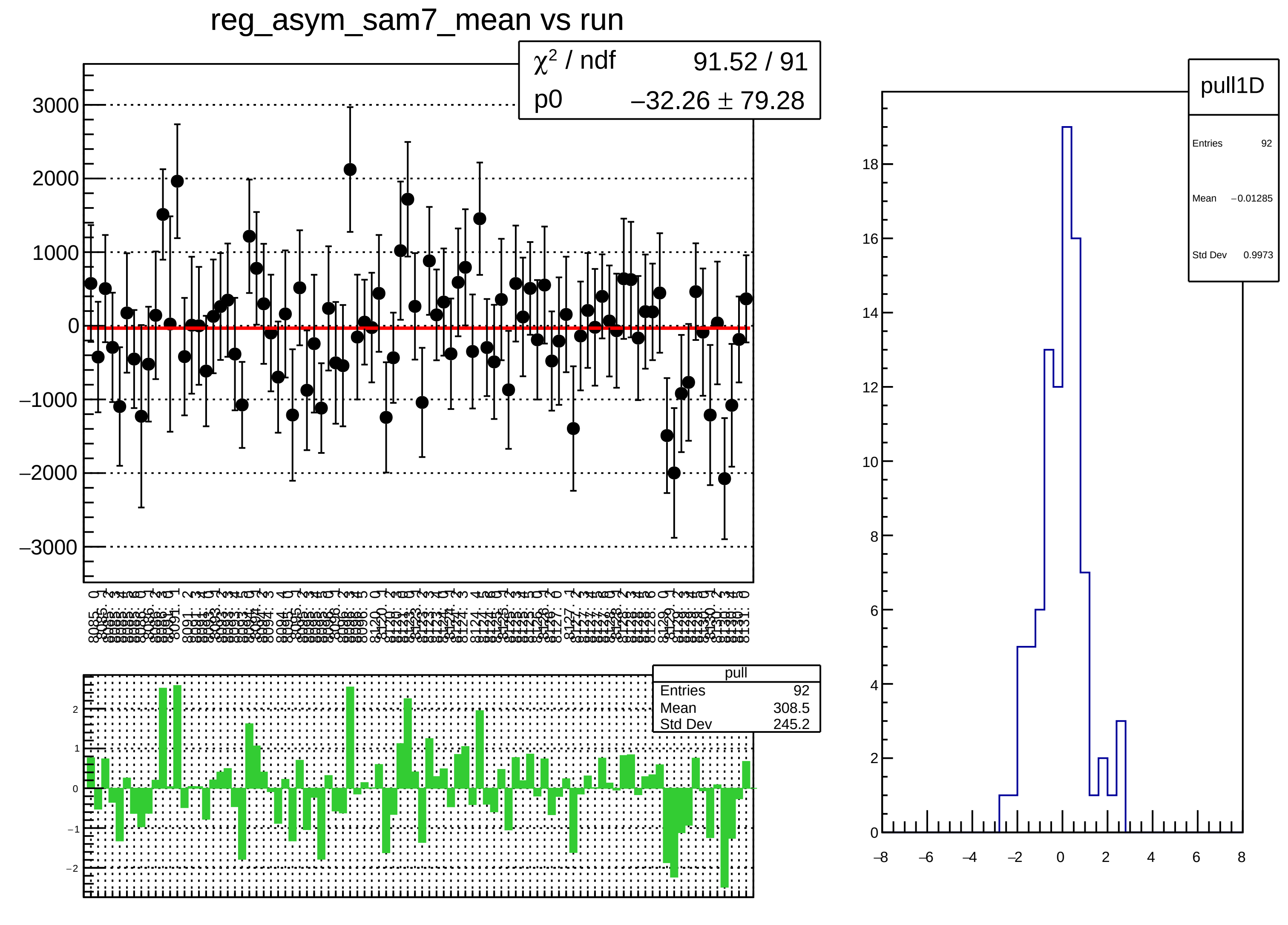


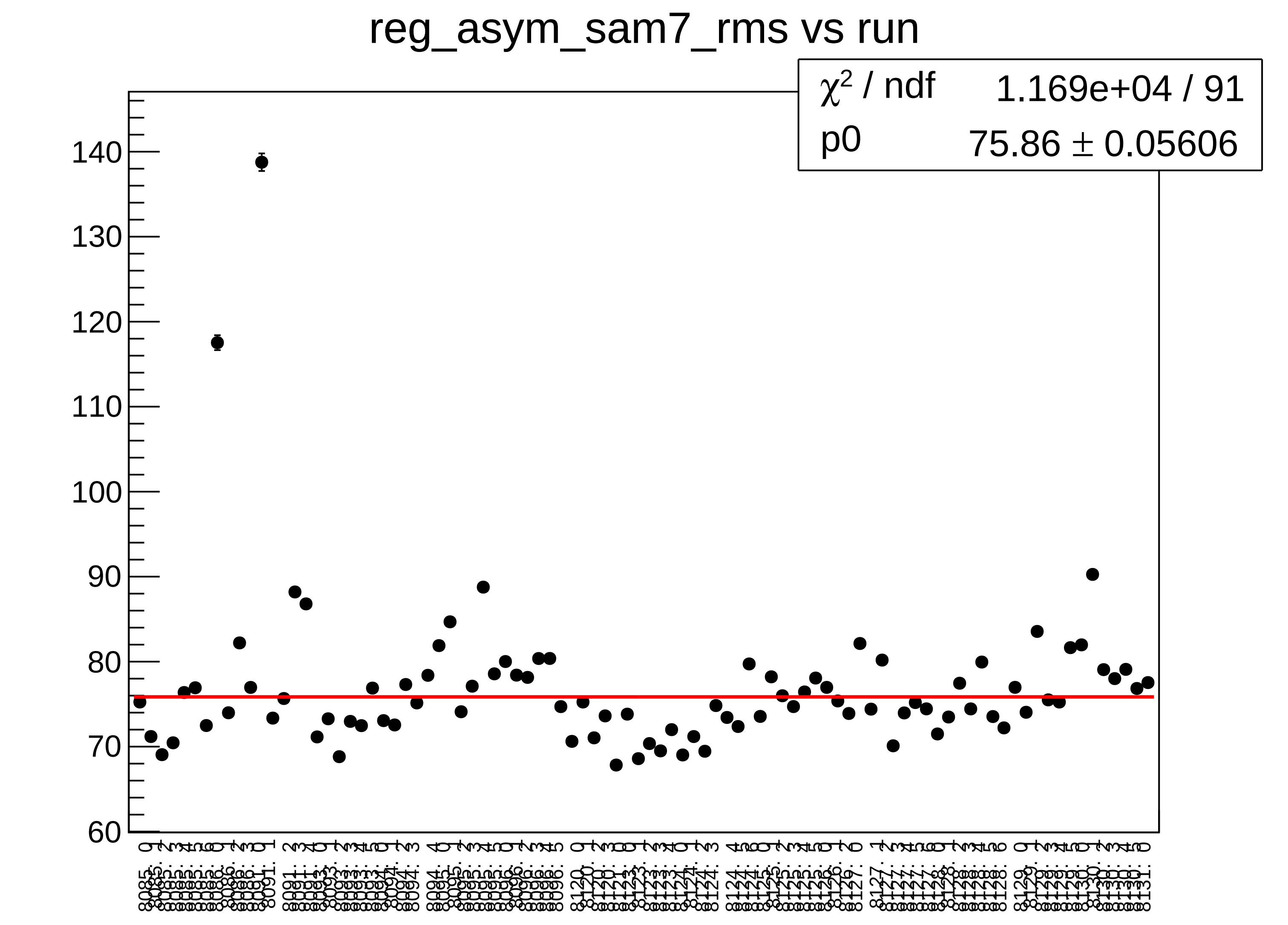
reg_asym_sam6_rms vs run
χ² / ndf 1.601e+04 / 91
p0 145.4 ± 0.1076
260
240
220
200
180
160
140
120



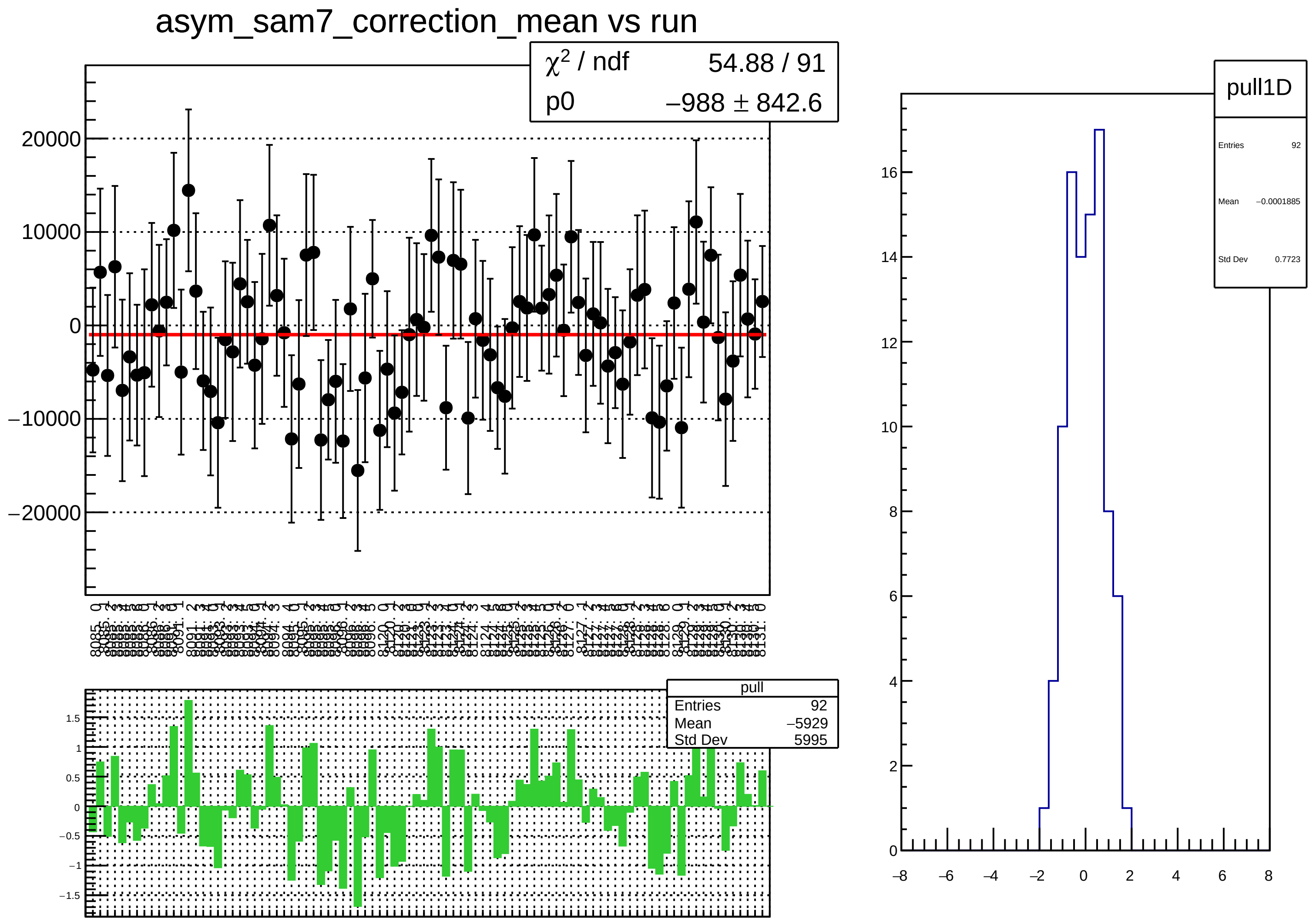
asym_sam6_correction_mean vs run
χ² / ndf 63.22 / 91
p0 1335 ± 1594
40000
20000
0
−20000
−40000
pull
Entries 92
Mean 216.9
Std Dev 135.1
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.003792
Std Dev 0.829
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

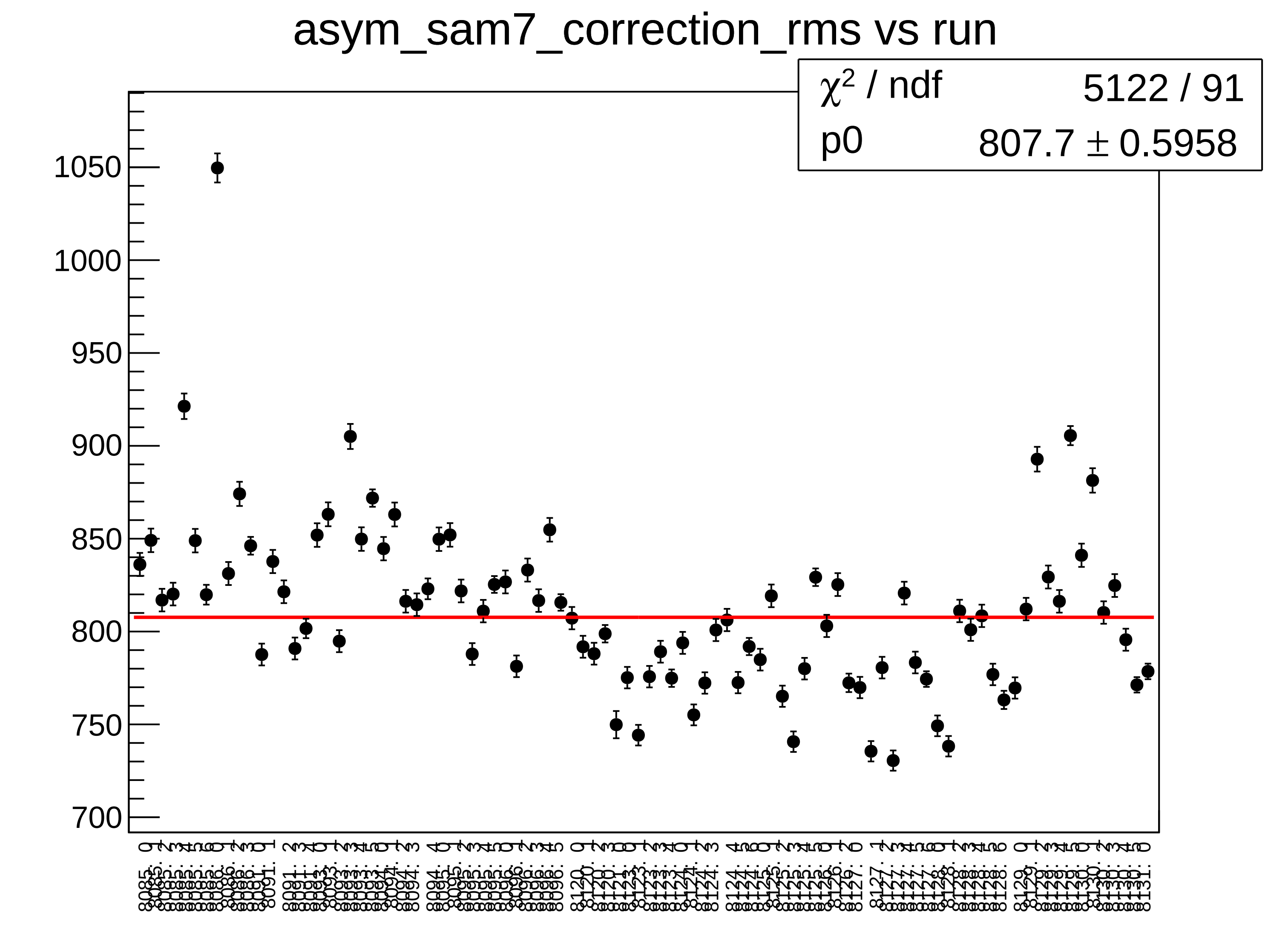

asym_sam6_correction_rms vs run
χ^2 / ndf 1.425e+04 / 91
p0 1524 ± 1.127
1900
1800
1700
1600
1500
1400
1300
1200

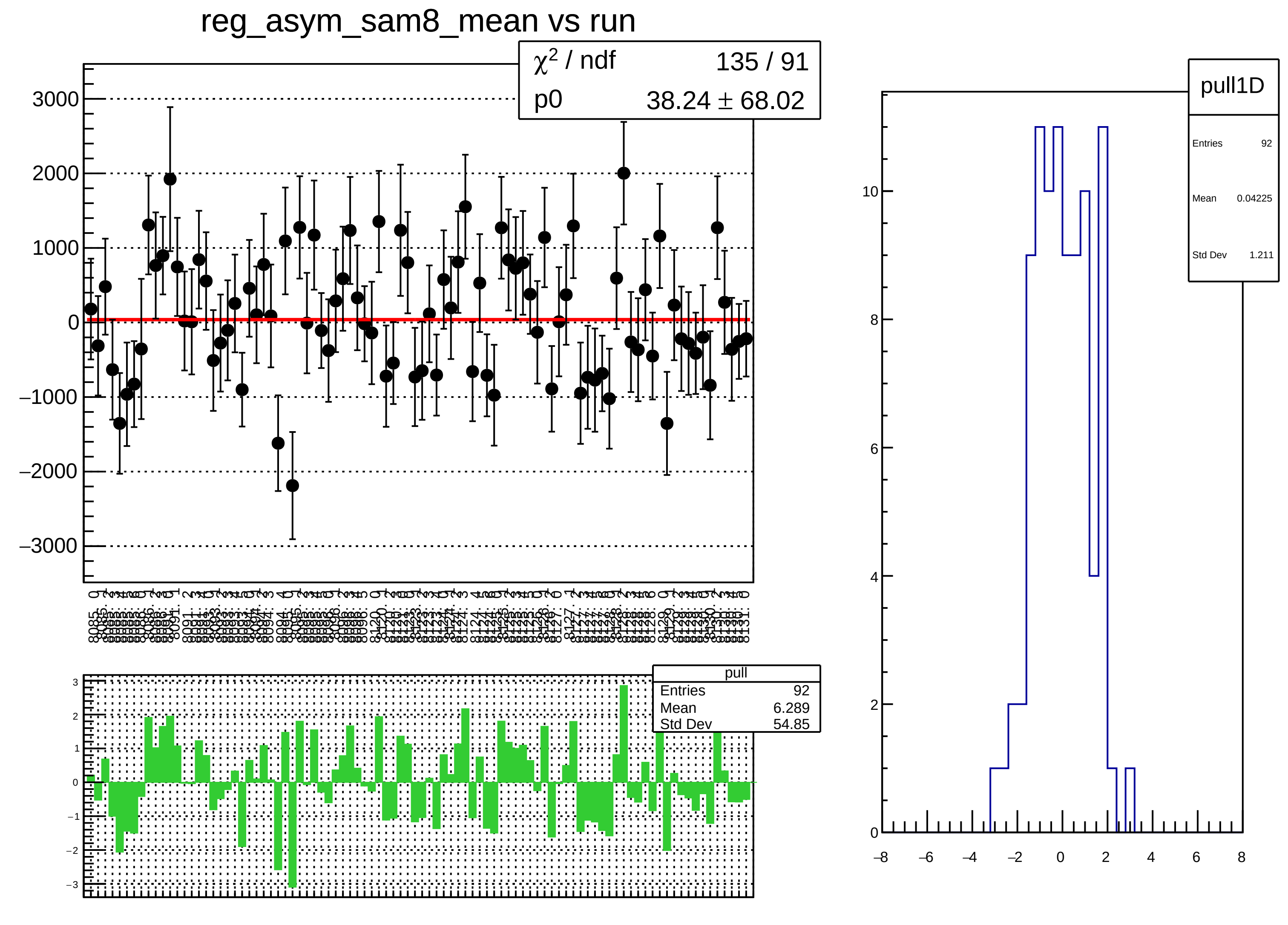

reg_asym_sam7_mean vs run
χ2 / ndf 91.52 / 91
p0 −32.26 ± 79.28
pull
Entries 92
Mean 308.5
Std Dev 245.2
pull1D
Entries 92
Mean −0.01285
Std Dev 0.9973



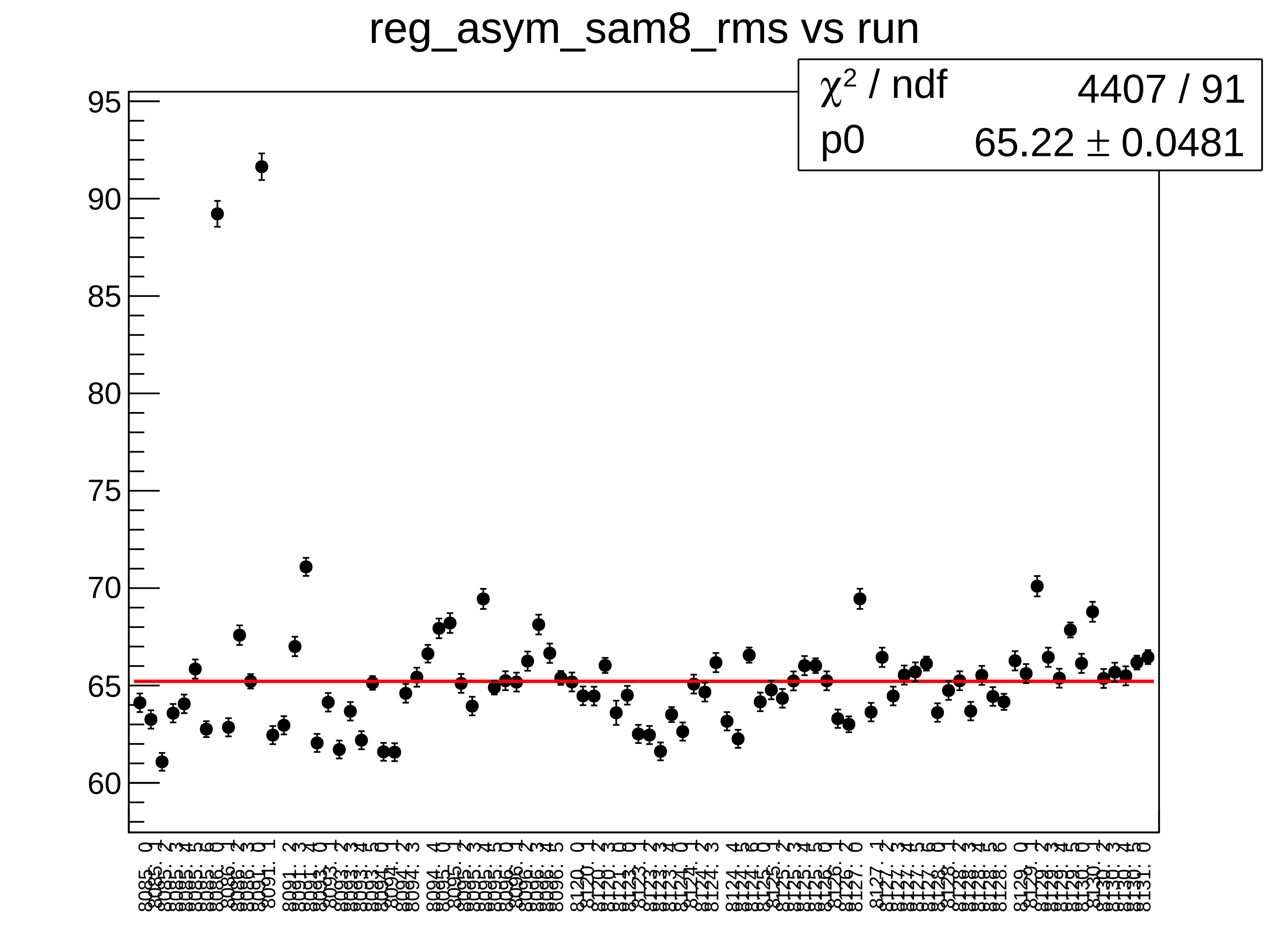
reg_asym_sam7_rms vs run
χ^2 / ndf 1.169e+04 / 91
p0 75.86 ± 0.05606
140
130
120
110
100
90
80
70
60


asym_sam7_correction_mean vs run
χ2 / ndf 54.88 / 91
p0 −988 ± 842.6
pull
Entries 92
Mean −5929
Std Dev 5995
pull1D
Entries 92
Mean −0.0001885
Std Dev 0.7723

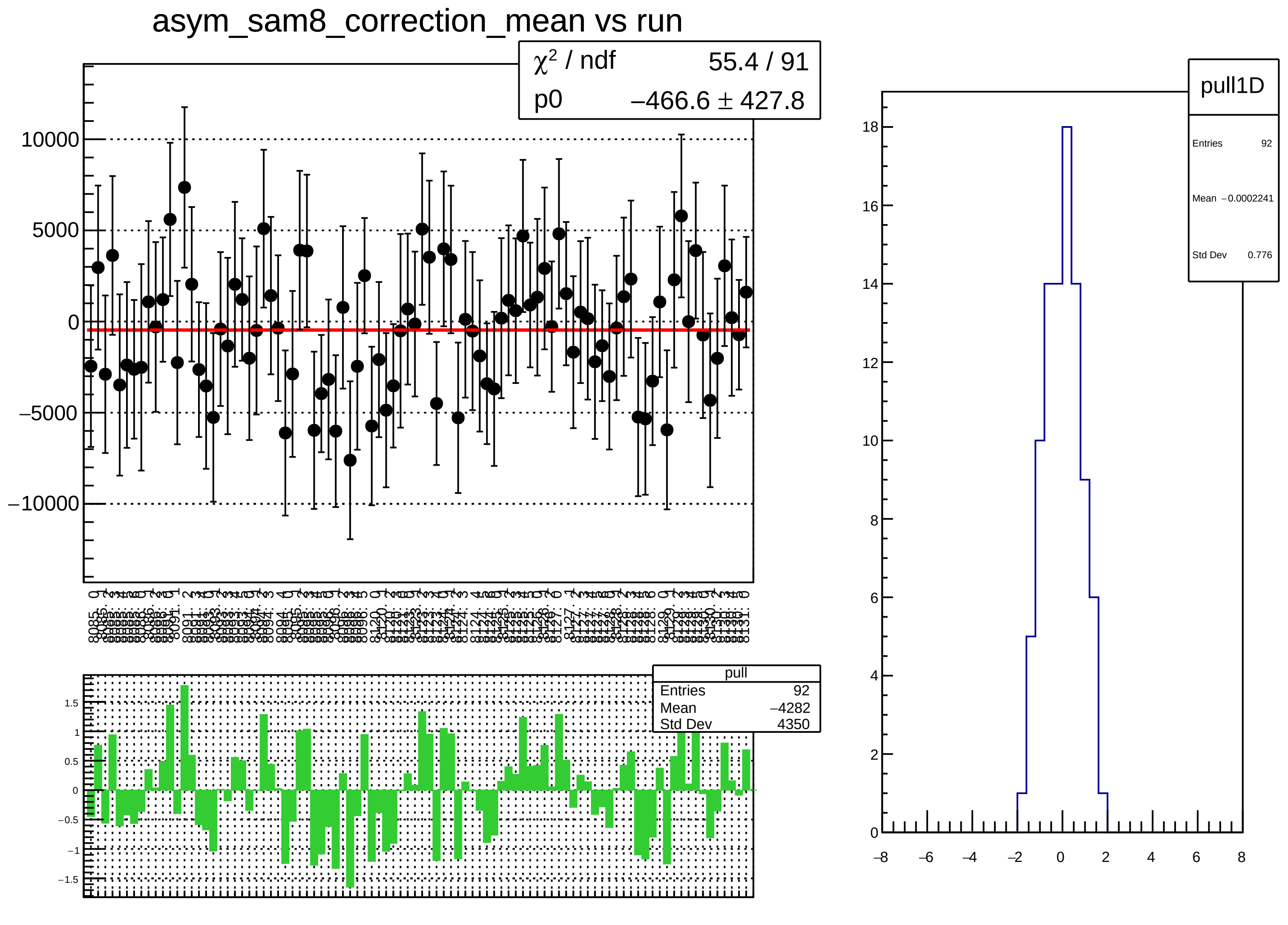

asym_sam7_correction_rms vs run
χ2 / ndf 5122 / 91
p0 807.7 ± 0.5958
1050
1000
950
900
850
800
750
700

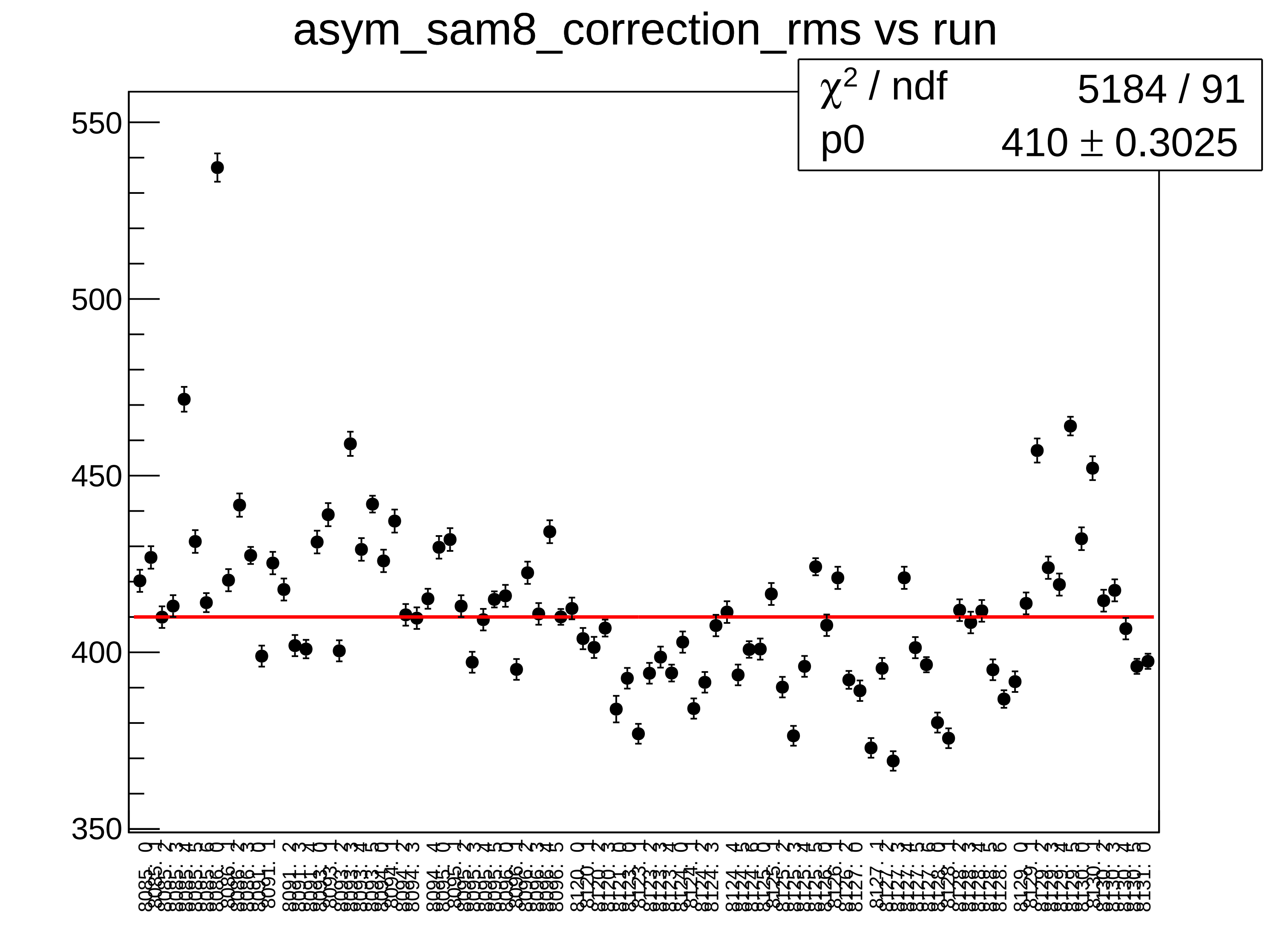


reg_asym_sam8_mean vs run
χ2 / ndf 135 / 91
p0 38.24 ± 68.02
pull
Entries 92
Mean 6.289
Std Dev 54.85
pull1D
Entries 92
Mean 0.04225
Std Dev 1.211

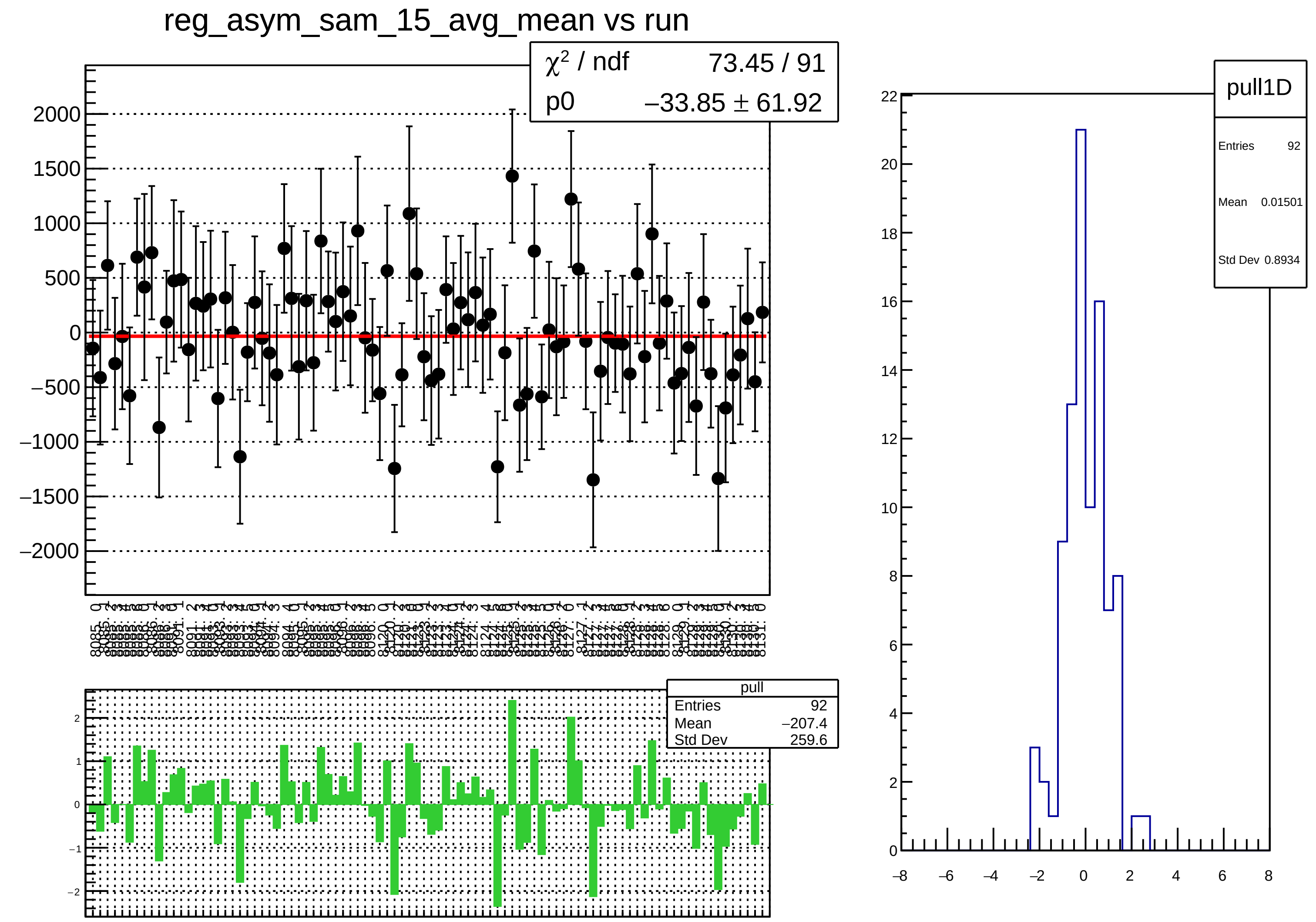


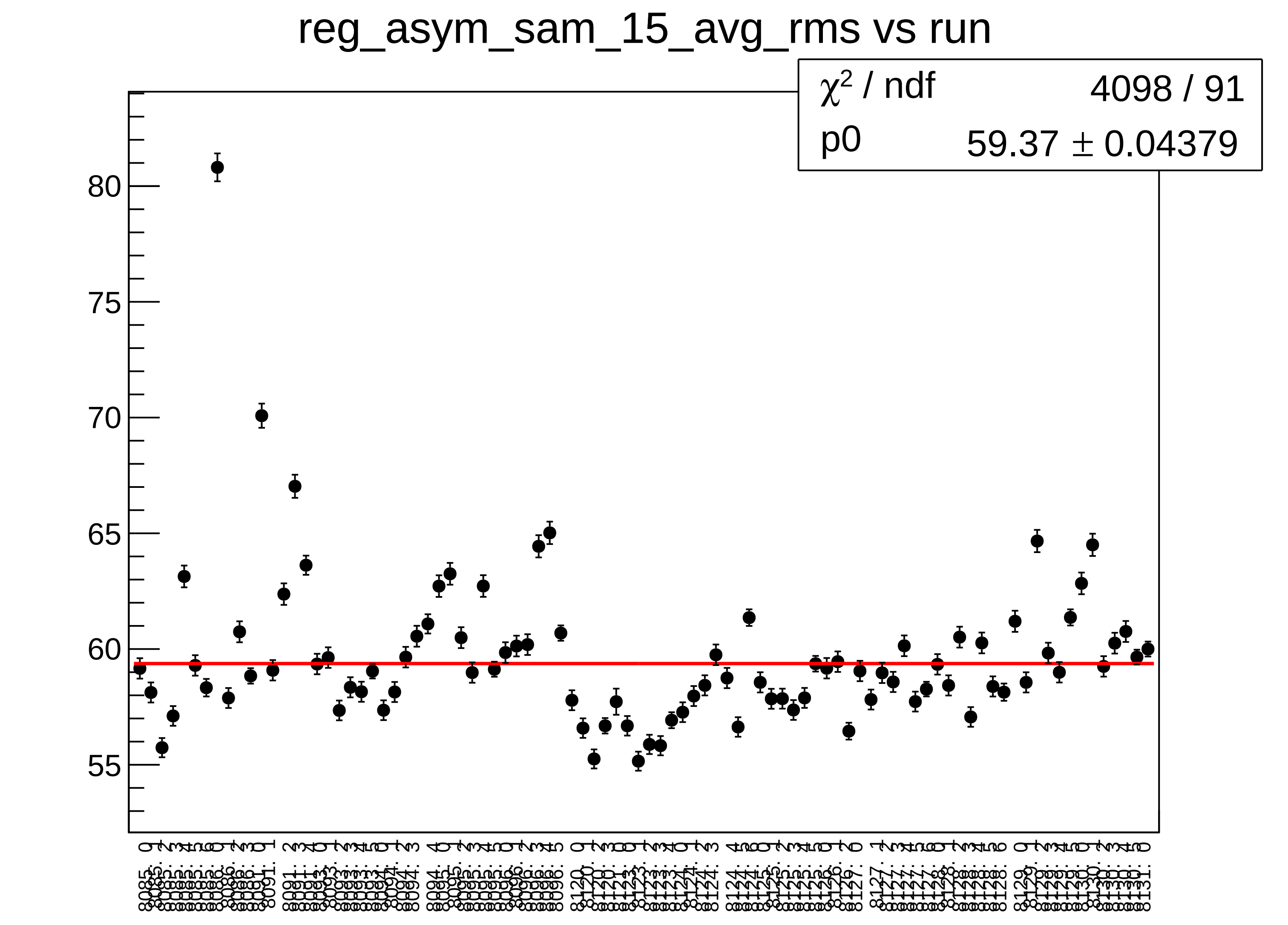
reg_asym_sam8_rms vs run
χ^2 / ndf 4407 / 91
p0 65.22 ± 0.0481
95
90
85
80
75
70
65
60


asym_sam8_correction_mean vs run
χ2 / ndf 55.4 / 91
p0 −466.6 ± 427.8
pull
Entries 92
Mean −4282
Std Dev 4350
pull1D
Entries 92
Mean −0.0002241
Std Dev 0.776

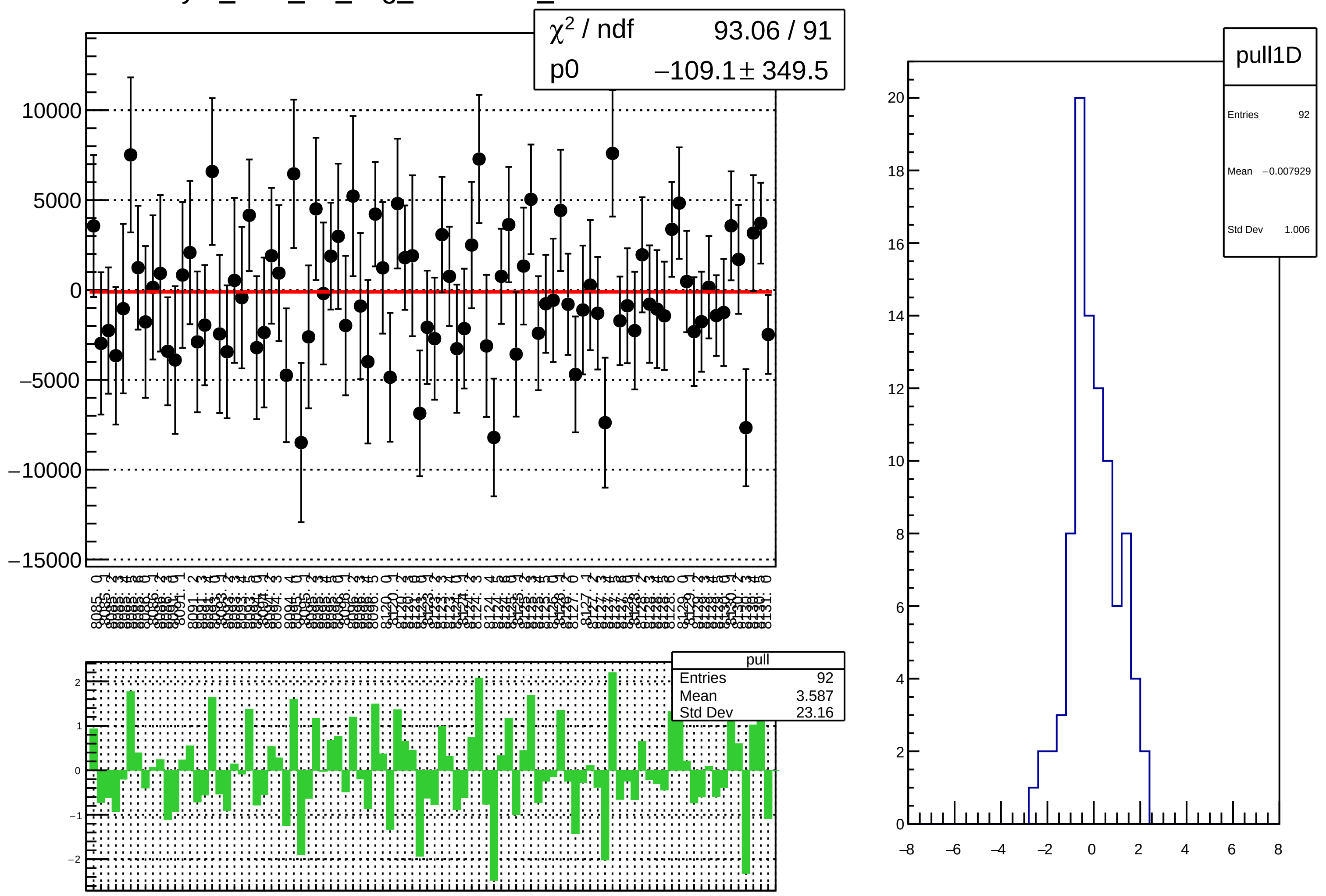


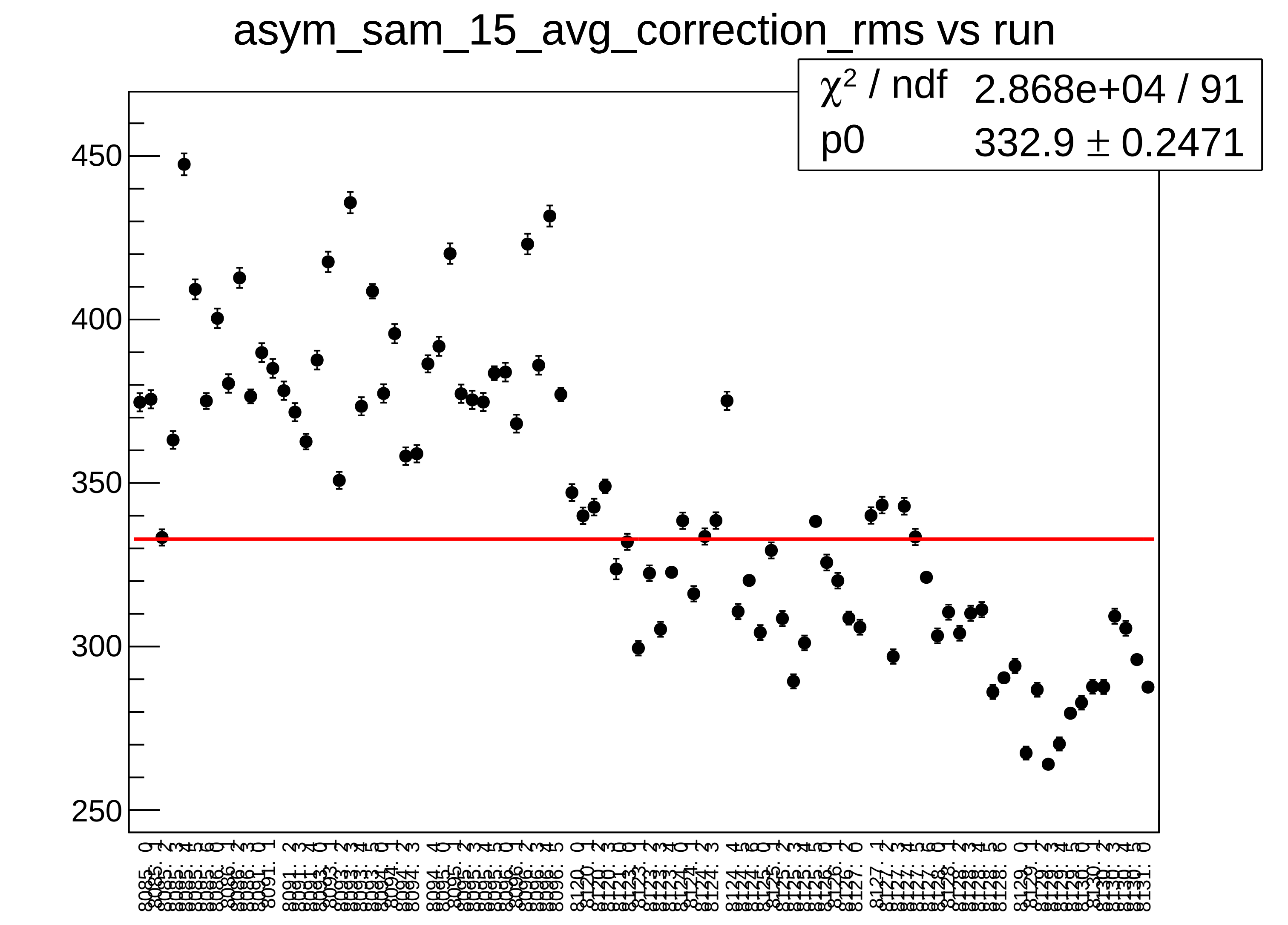
asym_sam8_correction_rms vs run
χ^2 / ndf 5184 / 91
p0 410 ± 0.3025
550
500
450
400
350


reg_asym_sam_15_avg_mean vs run
χ2 / ndf 73.45 / 91
p0 −33.85 ± 61.92
pull
Entries 92
Mean −207.4
Std Dev 259.6
pull1D
Entries 92
Mean 0.01501
Std Dev 0.8934

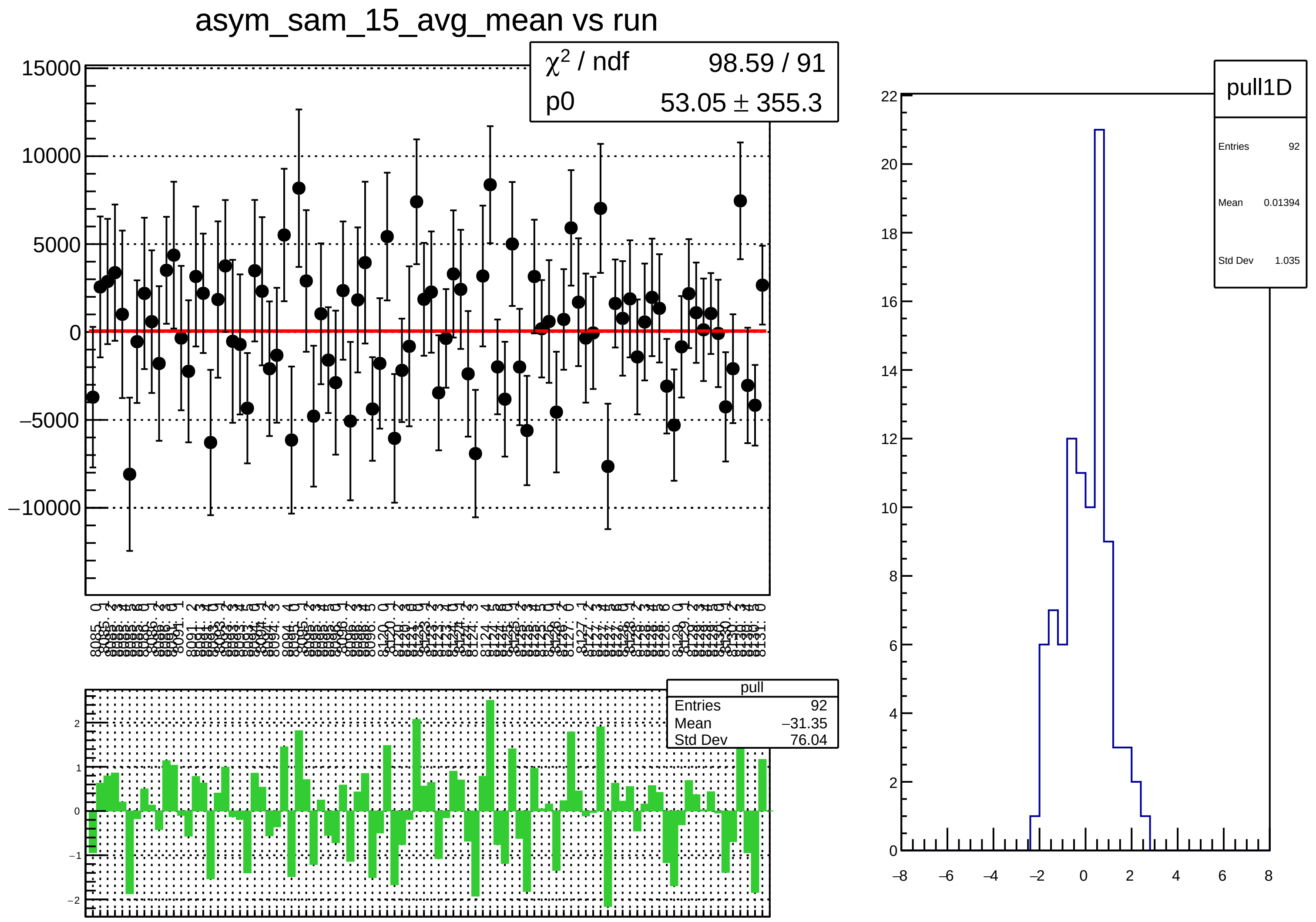

reg_asym_sam_15_avg_rms vs run
χ2 / ndf 4098 / 91
p0 59.37 ± 0.04379
80
75
70
65
60
55

asym_sam_15_avg_correction_mean vs run

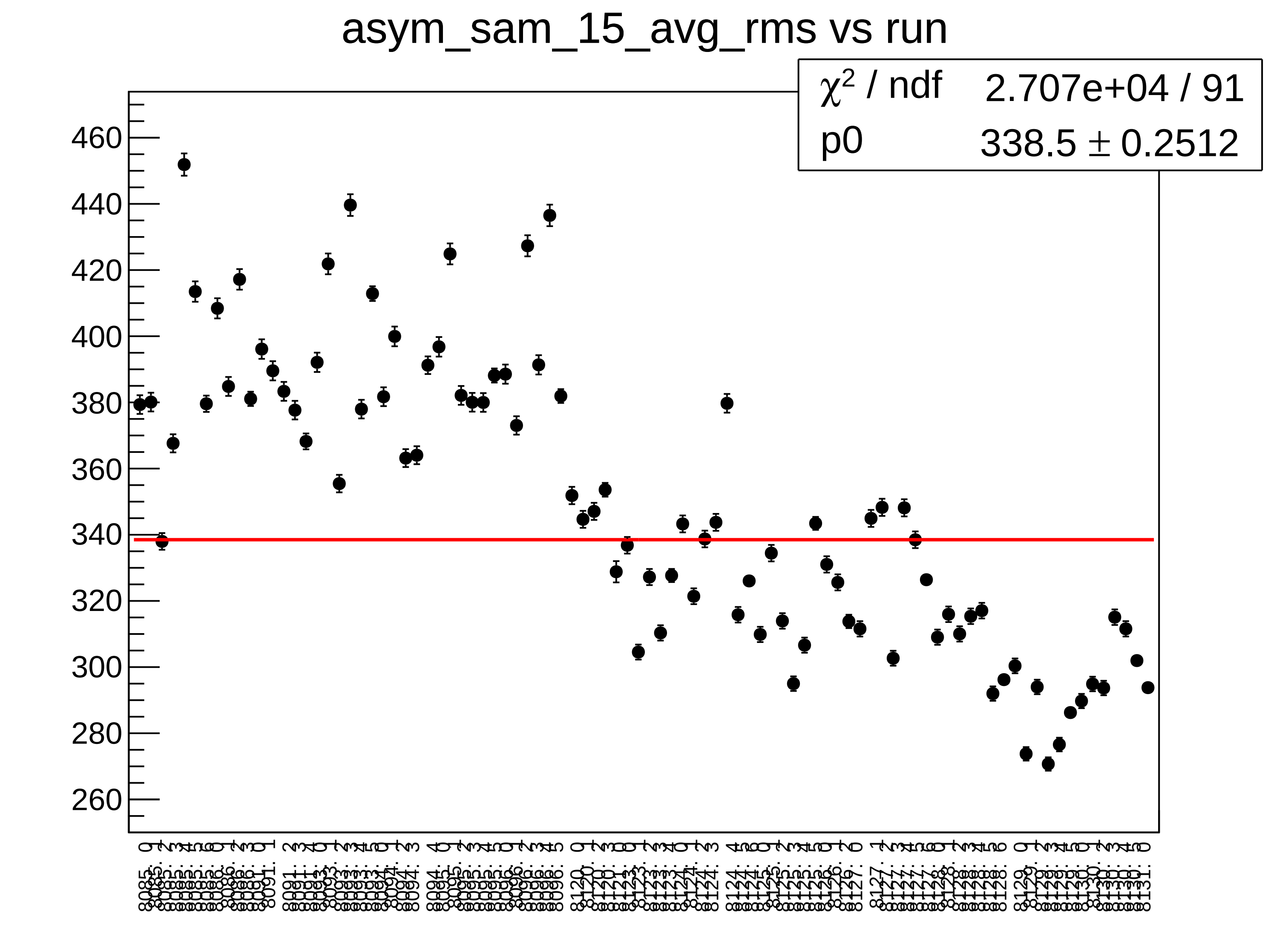




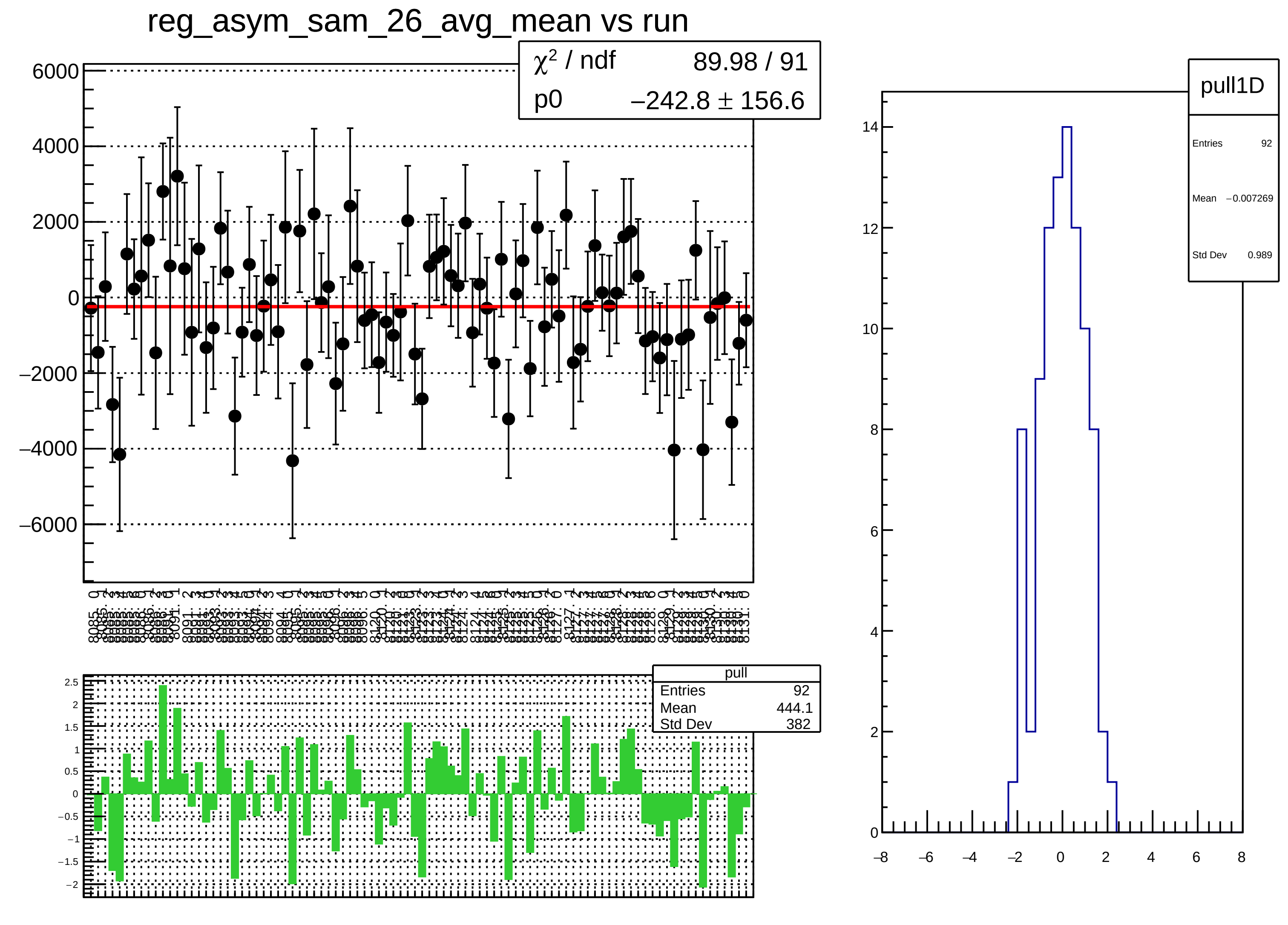
asym_sam_15_avg_correction_rms vs run
χ^2 / ndf 2.868e+04 / 91
p0 332.9 ± 0.2471
450
400
350
300
250



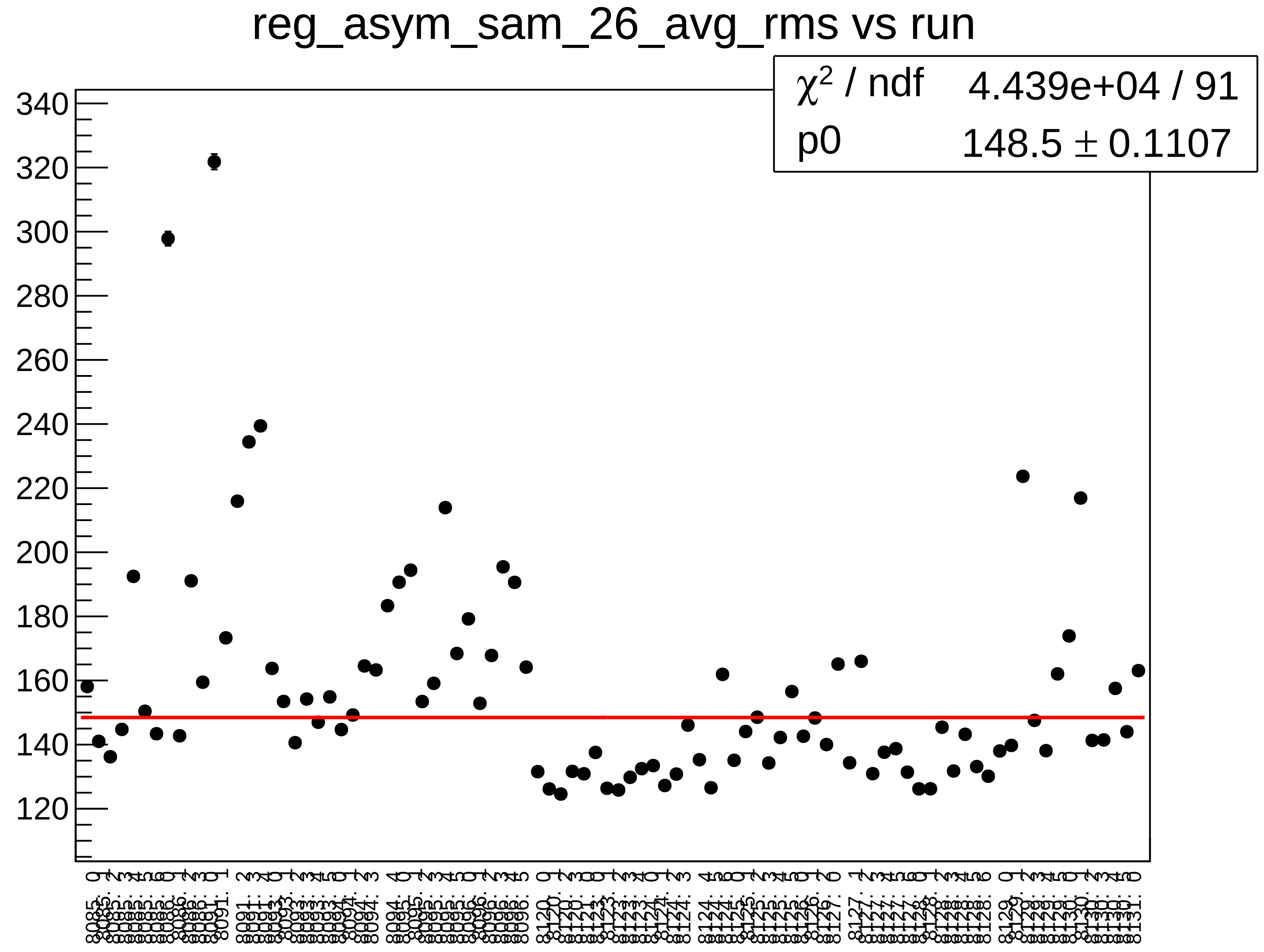
asym_sam_15_avg_mean vs run
χ^2 / ndf 98.59 / 91
p0 53.05 ± 355.3
15000
10000
5000
0
−5000
−10000
pull
Entries 92
Mean −31.35
Std Dev 76.04
pull1D
Entries 92
Mean 0.01394
Std Dev 1.035

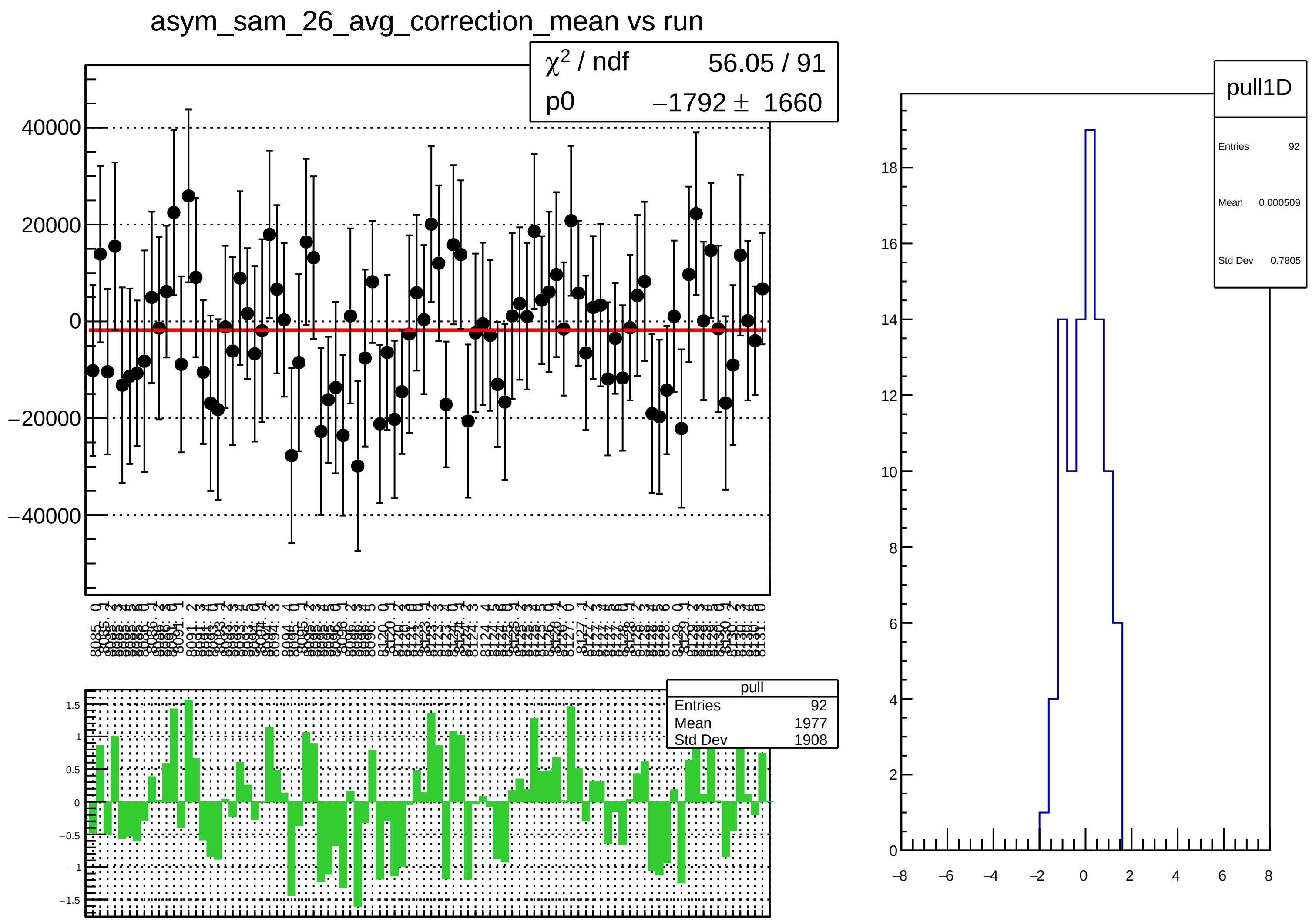


asym_sam_15_avg_rms vs run
χ2 / ndf 2.707e+04 / 91
p0 338.5 ± 0.2512
460
440
420
400
380
360
340
320
300
280
260



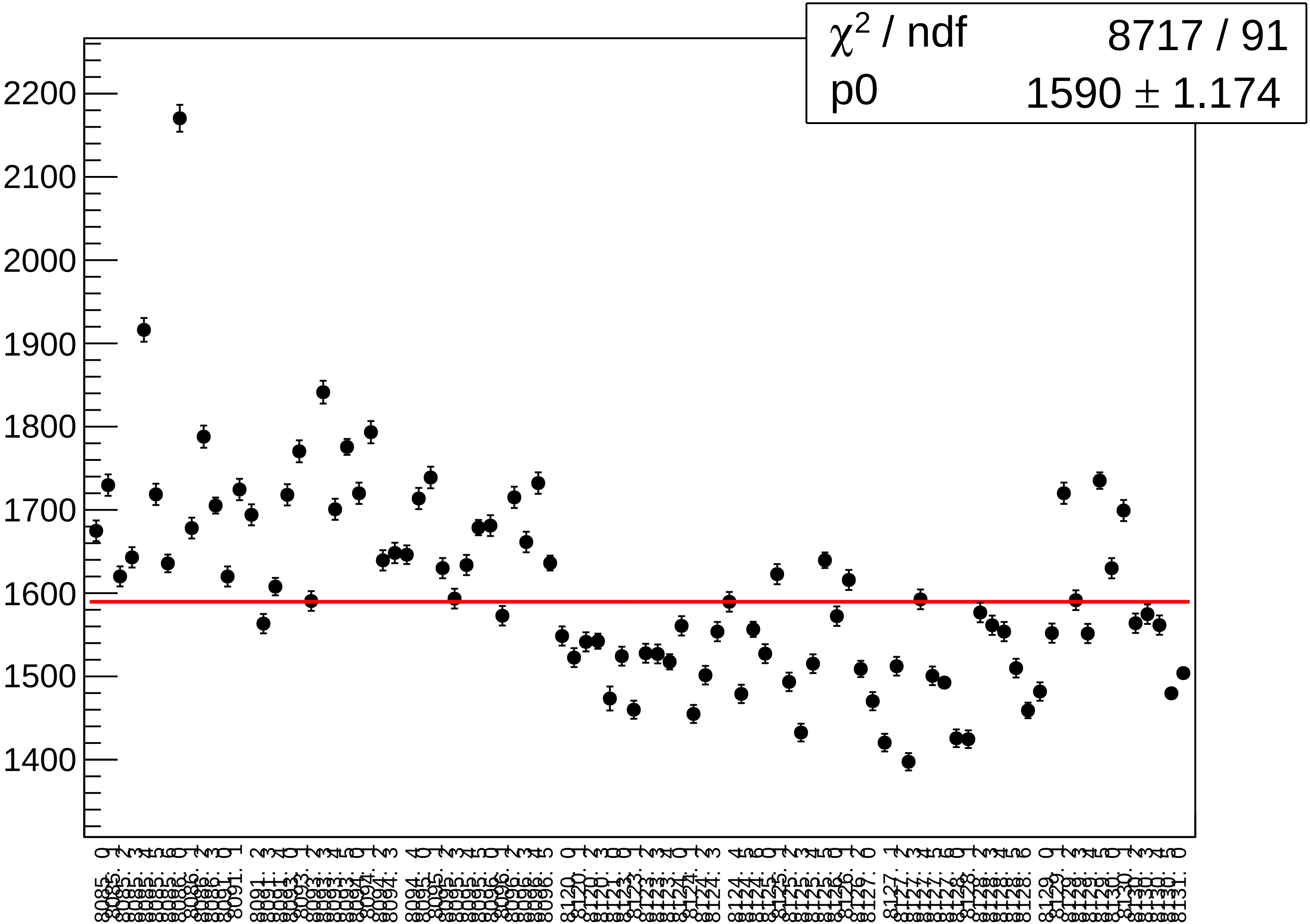
reg_asym_sam_26_avg_mean vs run
χ2 / ndf 89.98 / 91
p0 −242.8 ± 156.6
pull
Entries 92
Mean 444.1
Std Dev 382
pull1D
Entries 92
Mean −0.007269
Std Dev 0.989

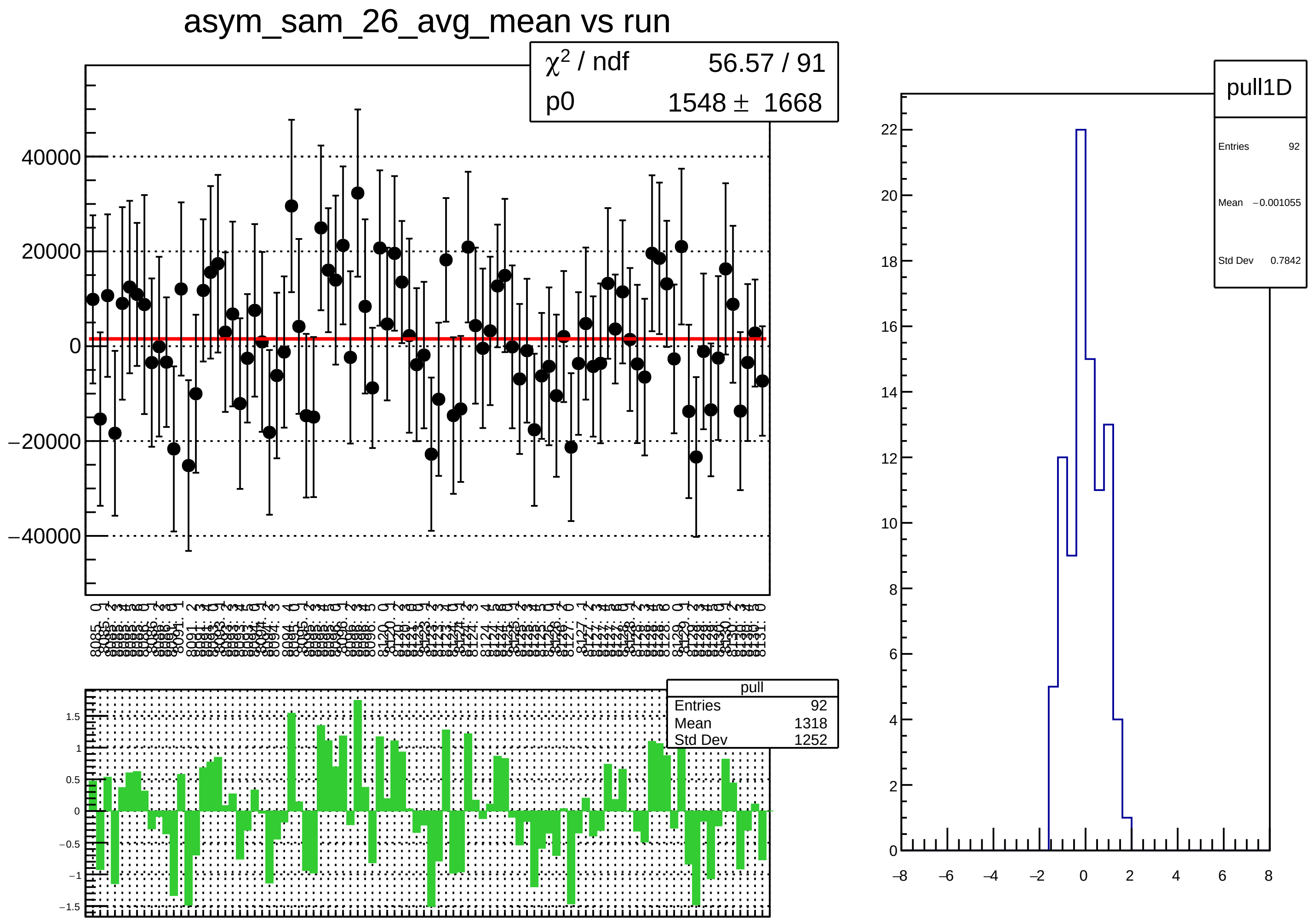

reg_asym_sam_26_avg_rms vs run
χ2 / ndf 4.439e+04 / 91
p0 148.5 ± 0.1107
340
320
300
280
260
240
220
200
180
160
140
120



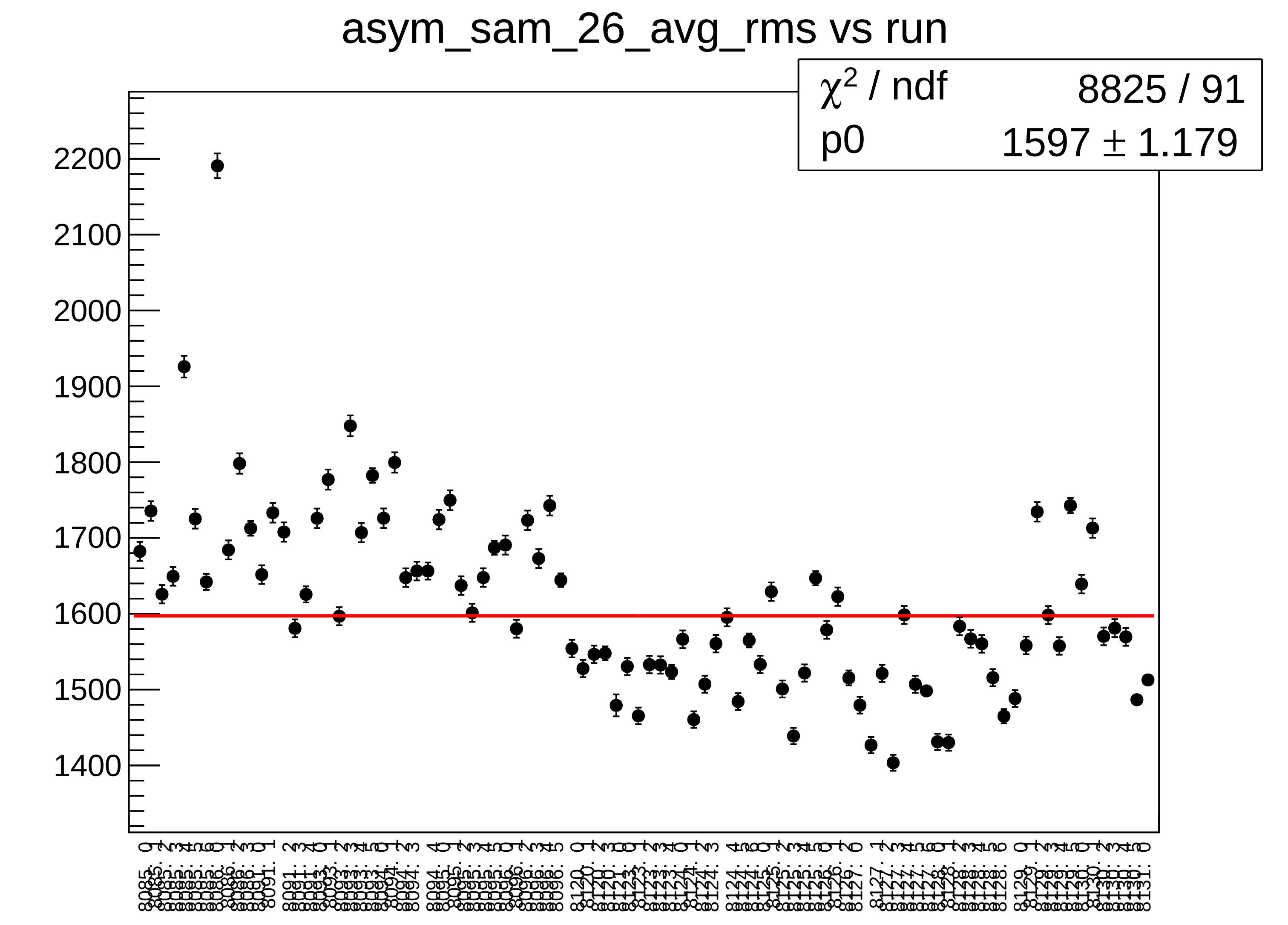
asym_sam_26_avg_correction_mean vs run
χ^2 / ndf 56.05 / 91
p0 −1792 ± 1660
pull
Entries 92
Mean 1977
Std Dev 1908
pull1D
Entries 92
Mean 0.000509
Std Dev 0.7805

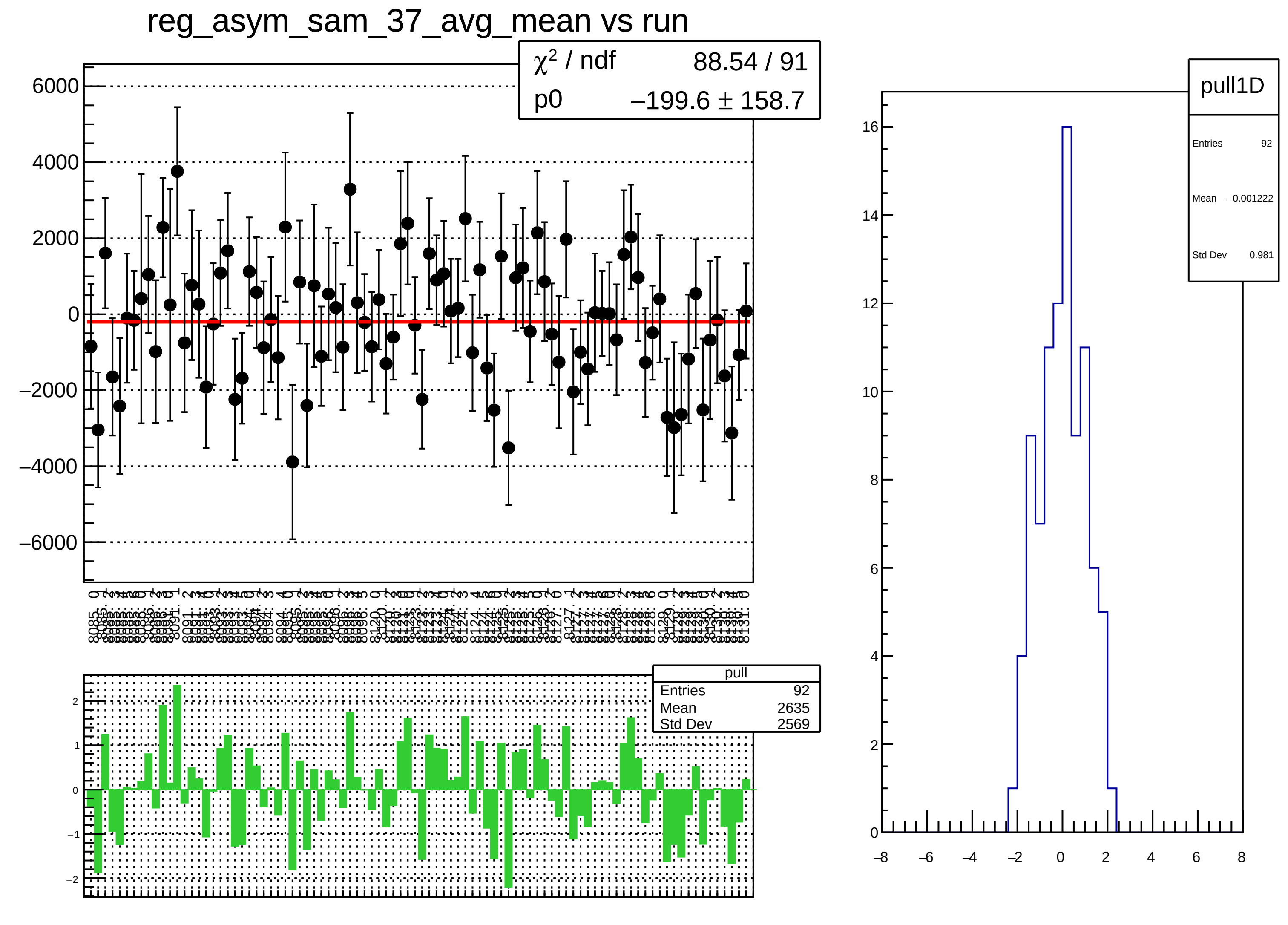
asym_sam_26_avg_correction_rms vs run



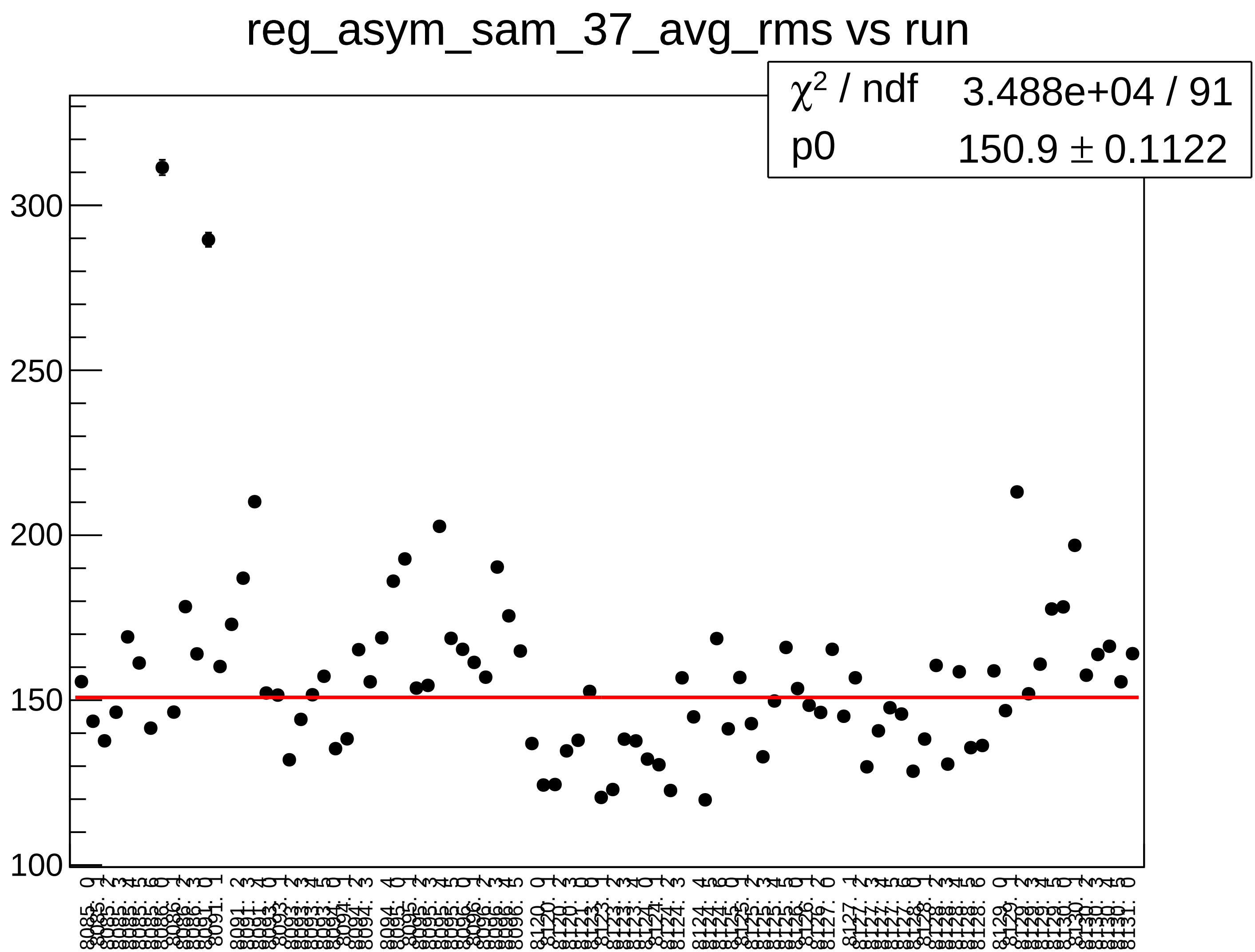


asym_sam_26_avg_mean vs run
χ^2 / ndf 56.57 / 91
p0 1548 ± 1668
pull
Entries 92
Mean 1318
Std Dev 1252
pull1D
Entries 92
Mean −0.001055
Std Dev 0.7842

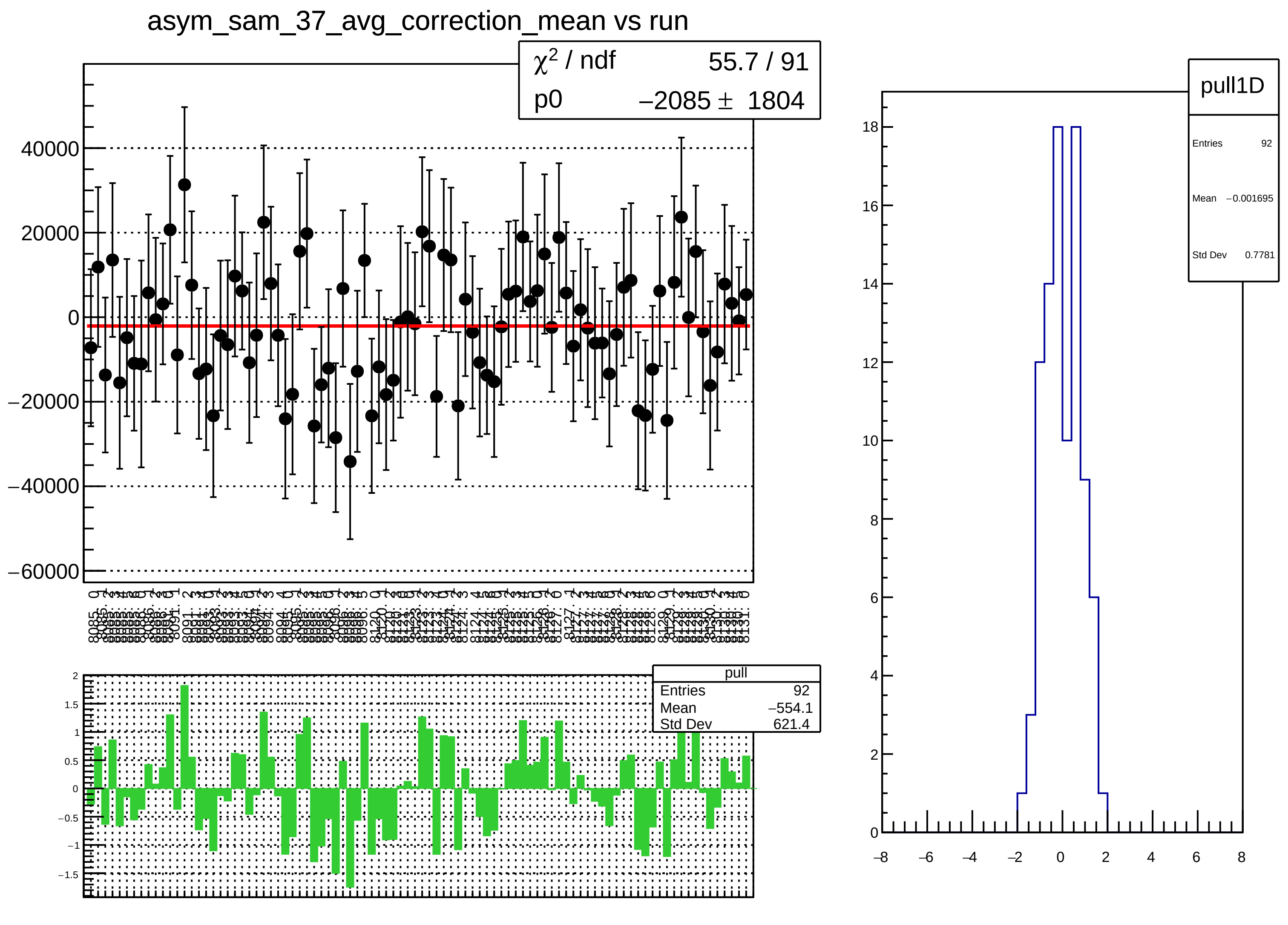

asym_sam_26_avg_rms vs run
χ^2 / ndf 8825 / 91
p0 1597 ± 1.179
2200
2100
2000
1900
1800
1700
1600
1500
1400



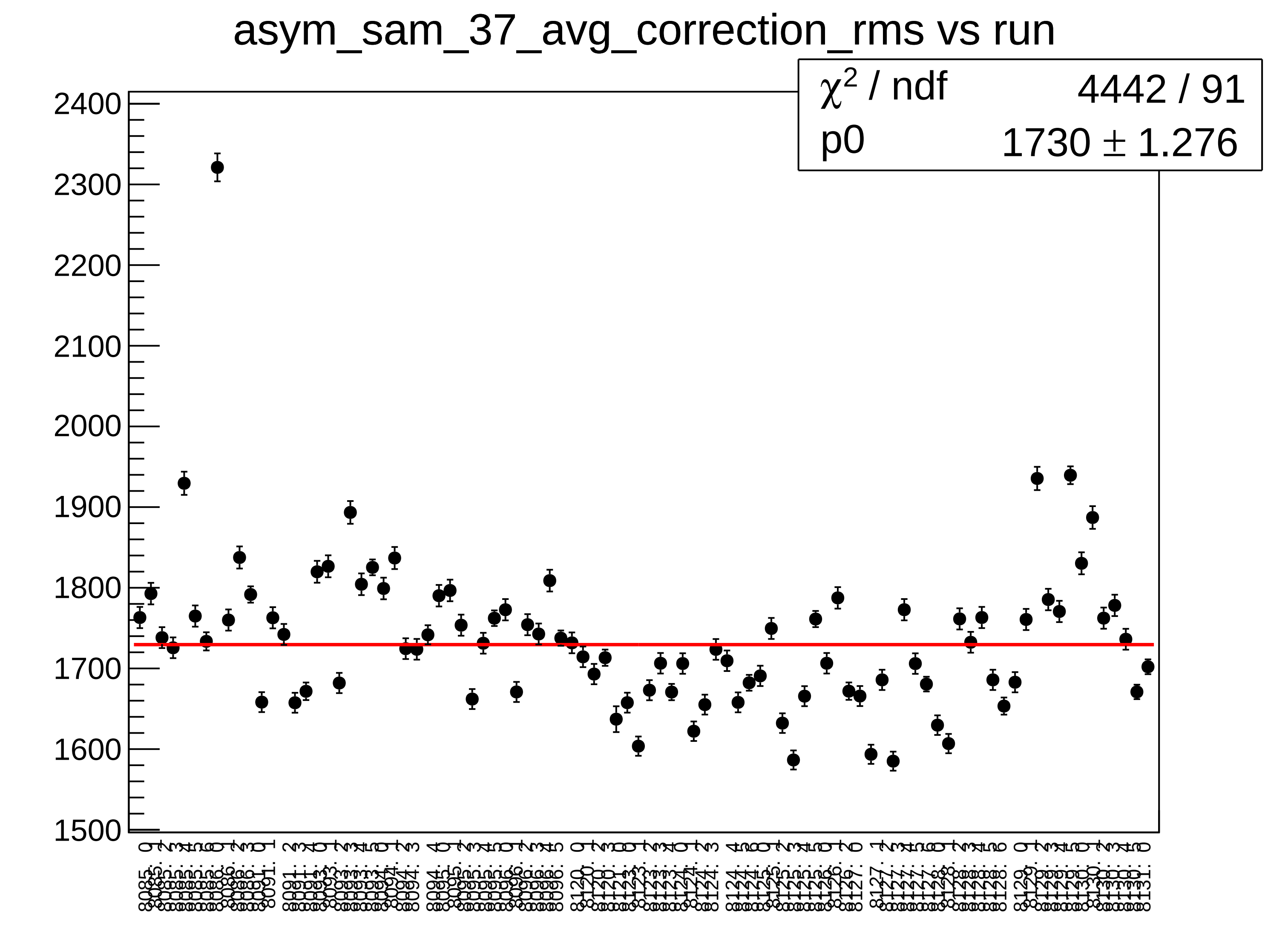
reg_asym_sam_37_avg_mean vs run
χ2 / ndf 88.54 / 91
p0 −199.6 ± 158.7
pull
Entries 92
Mean 2635
Std Dev 2569
pull1D
Entries 92
Mean −0.001222
Std Dev 0.981



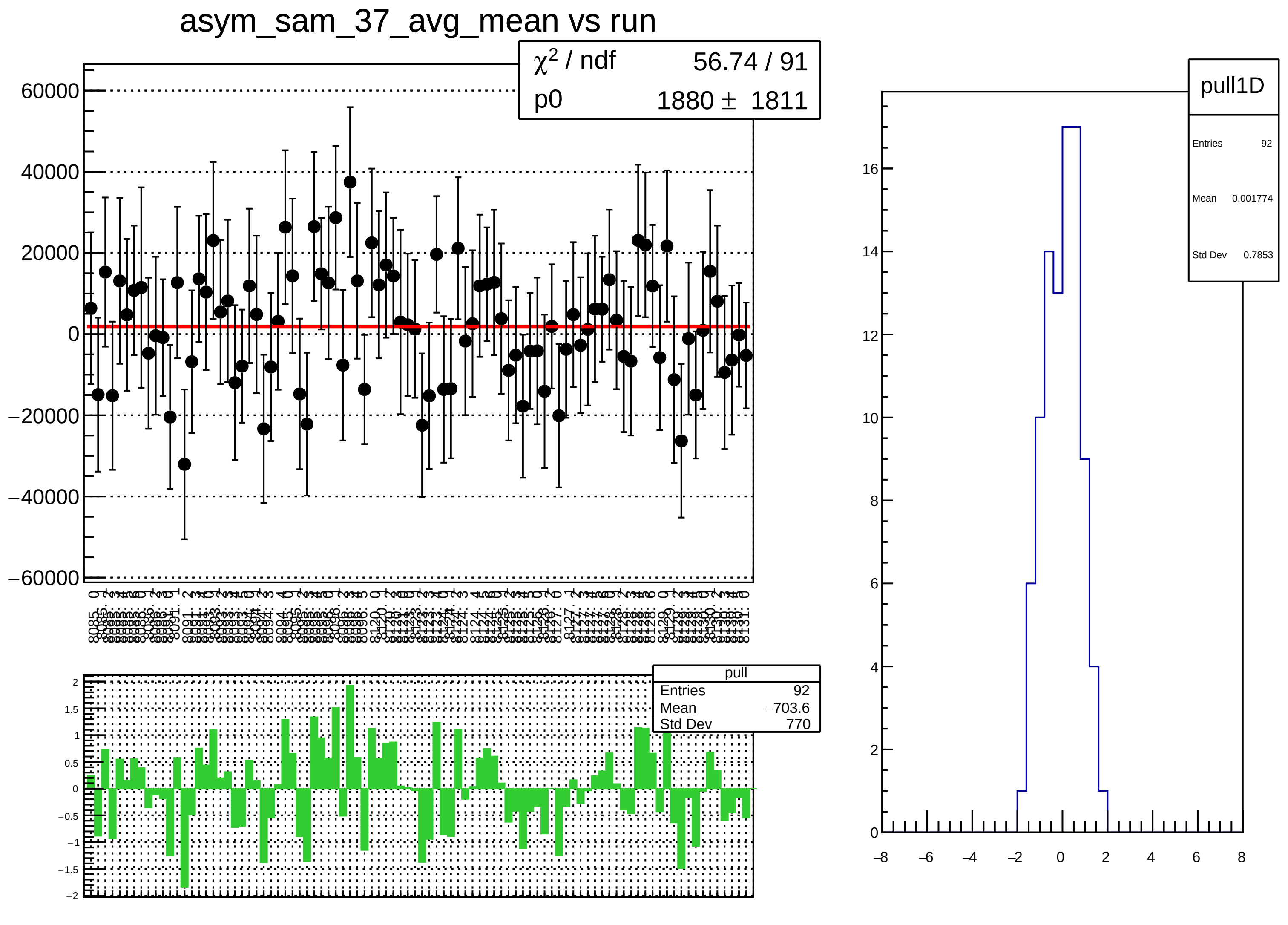
reg_asym_sam_37_avg_rms vs run
χ^2 / ndf 3.488e+04 / 91
p0 150.9 ± 0.1122
300
250
200
150
100



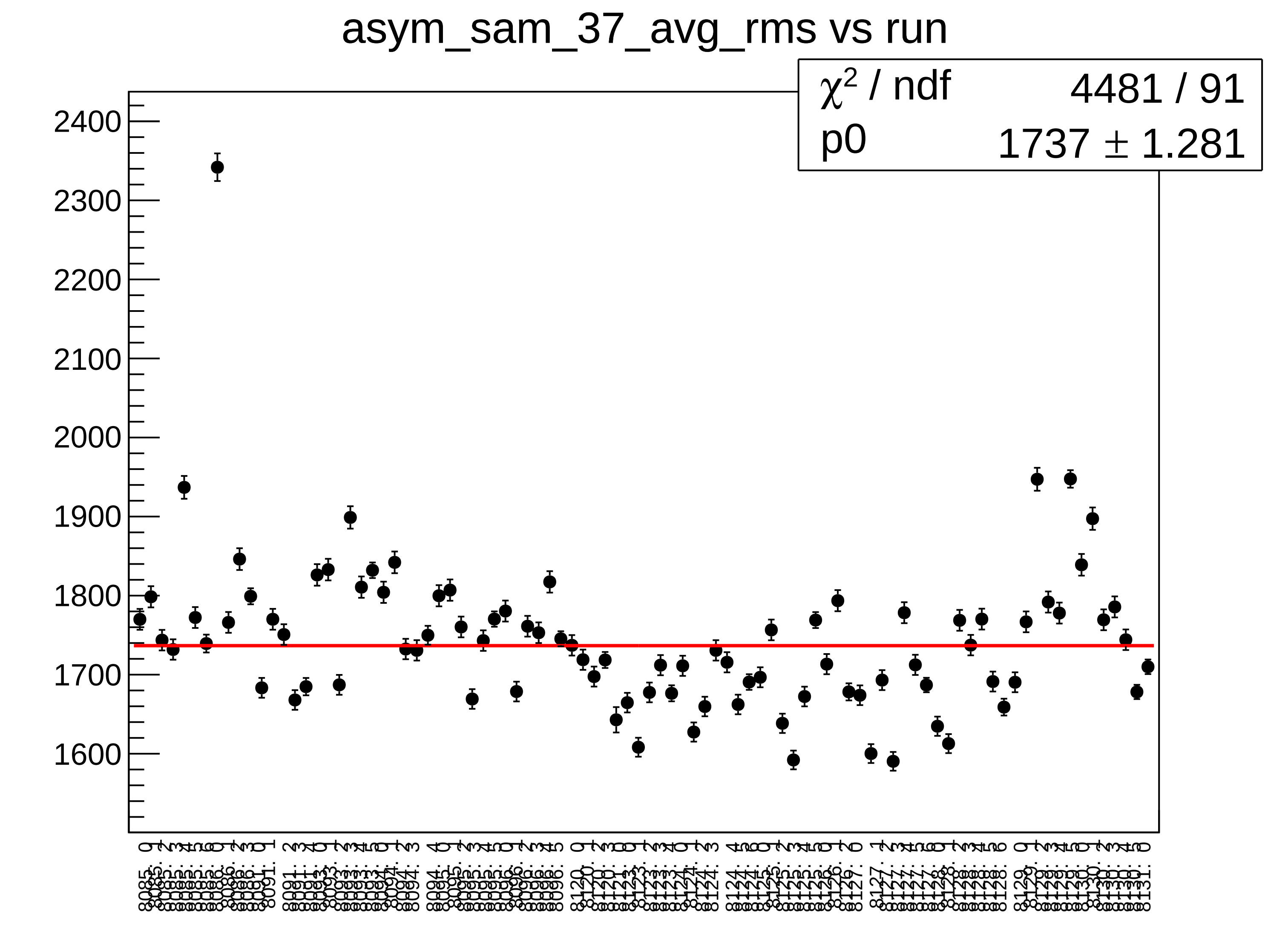
asym_sam_37_avg_correction_mean vs run
χ^2 / ndf 55.7 / 91
p0 −2085 ± 1804
pull
Entries 92
Mean −554.1
Std Dev 621.4
pull1D
Entries 92
Mean −0.001695
Std Dev 0.7781

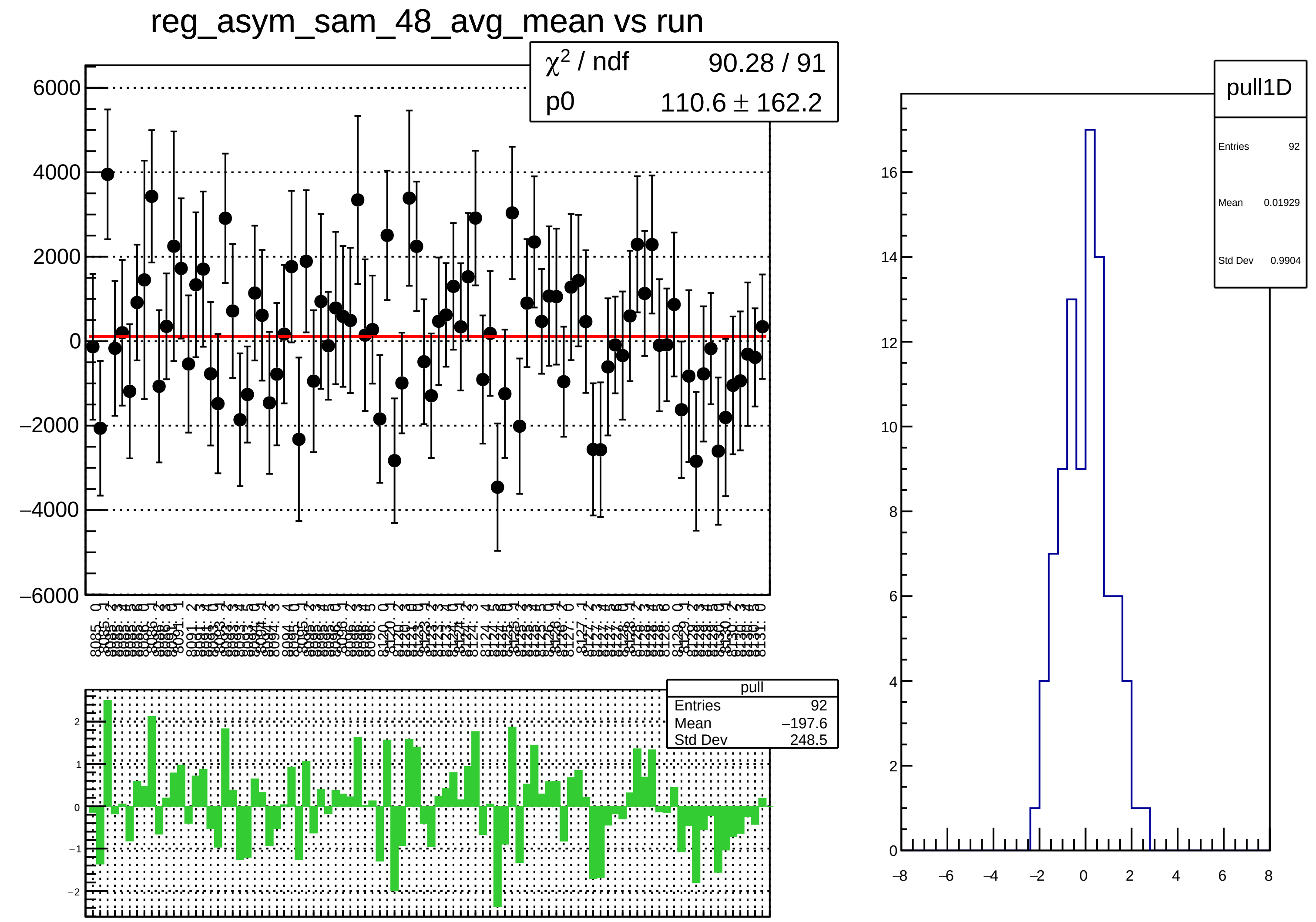


asym_sam_37_avg_correction_rms vs run
χ^2 / ndf 4442 / 91
p0 1730 ± 1.276
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

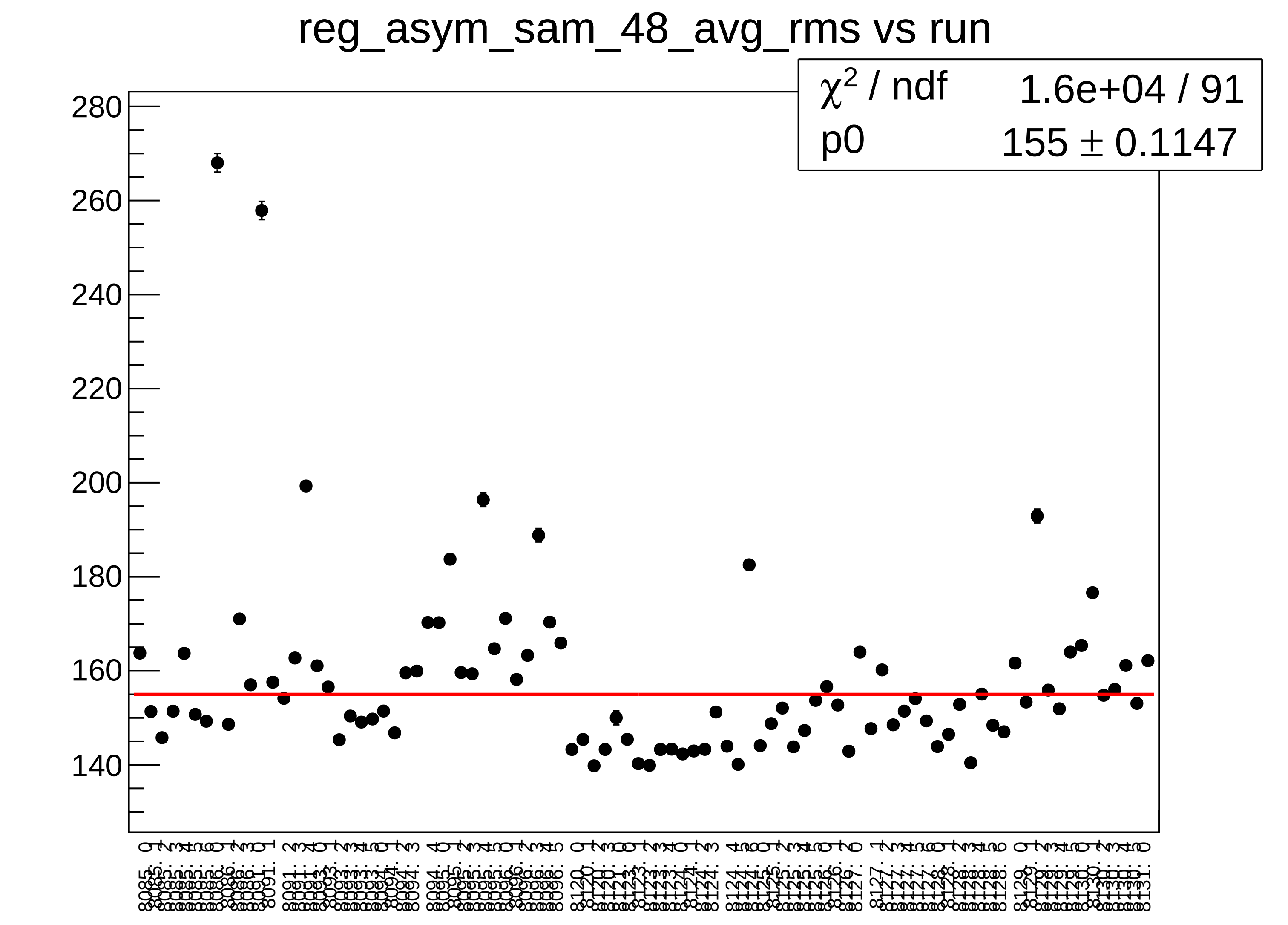


asym_sam_37_avg_mean vs run
χ^2 / ndf 56.74 / 91
p0 1880 ± 1811
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −703.6
Std Dev 770
pull1D
Entries 92
Mean 0.001774
Std Dev 0.7853

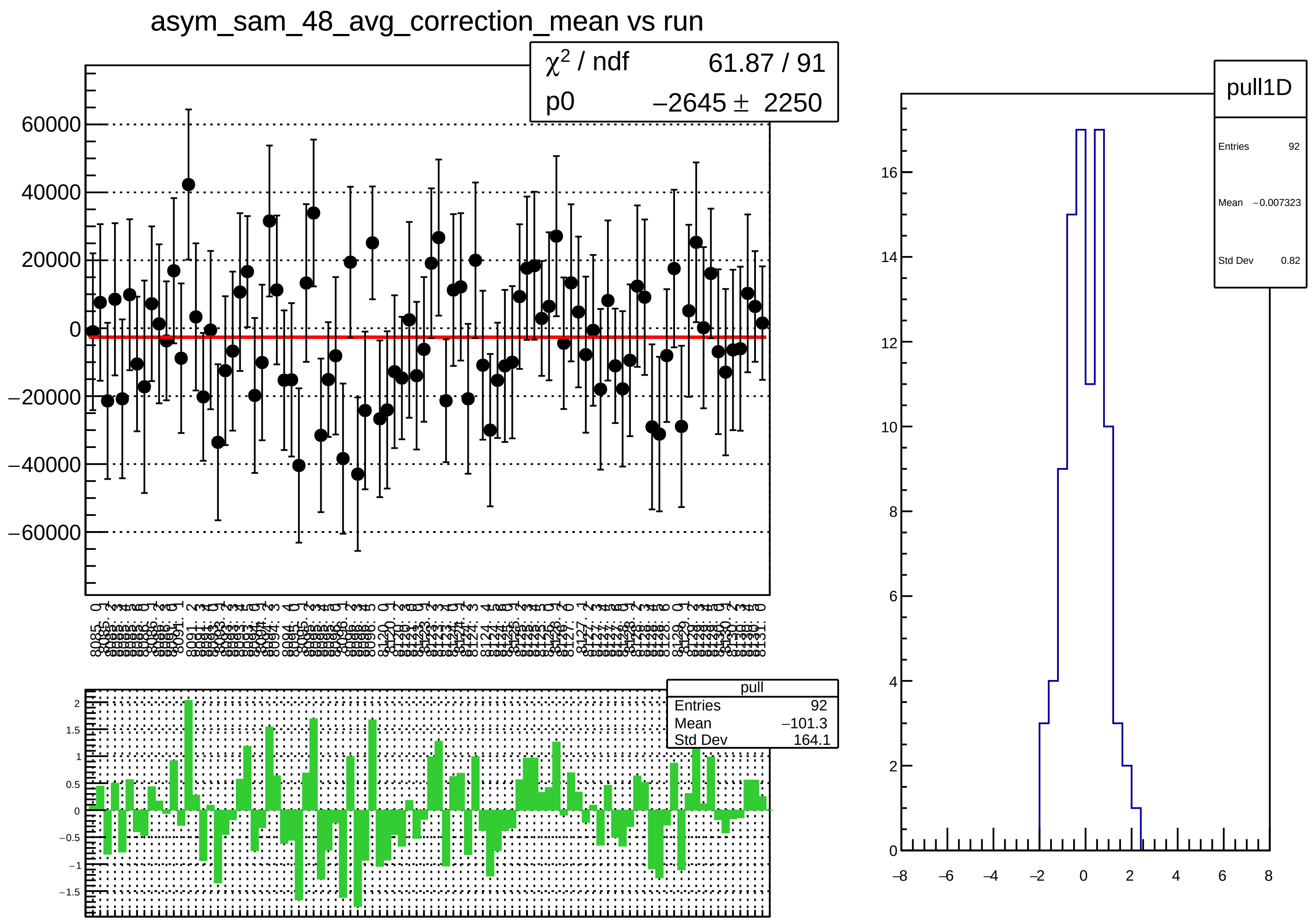

asym_sam_37_avg_rms vs run
χ2 / ndf 4481 / 91
p0 1737 ± 1.281
2400
2300
2200
2100
2000
1900
1800
1700
1600



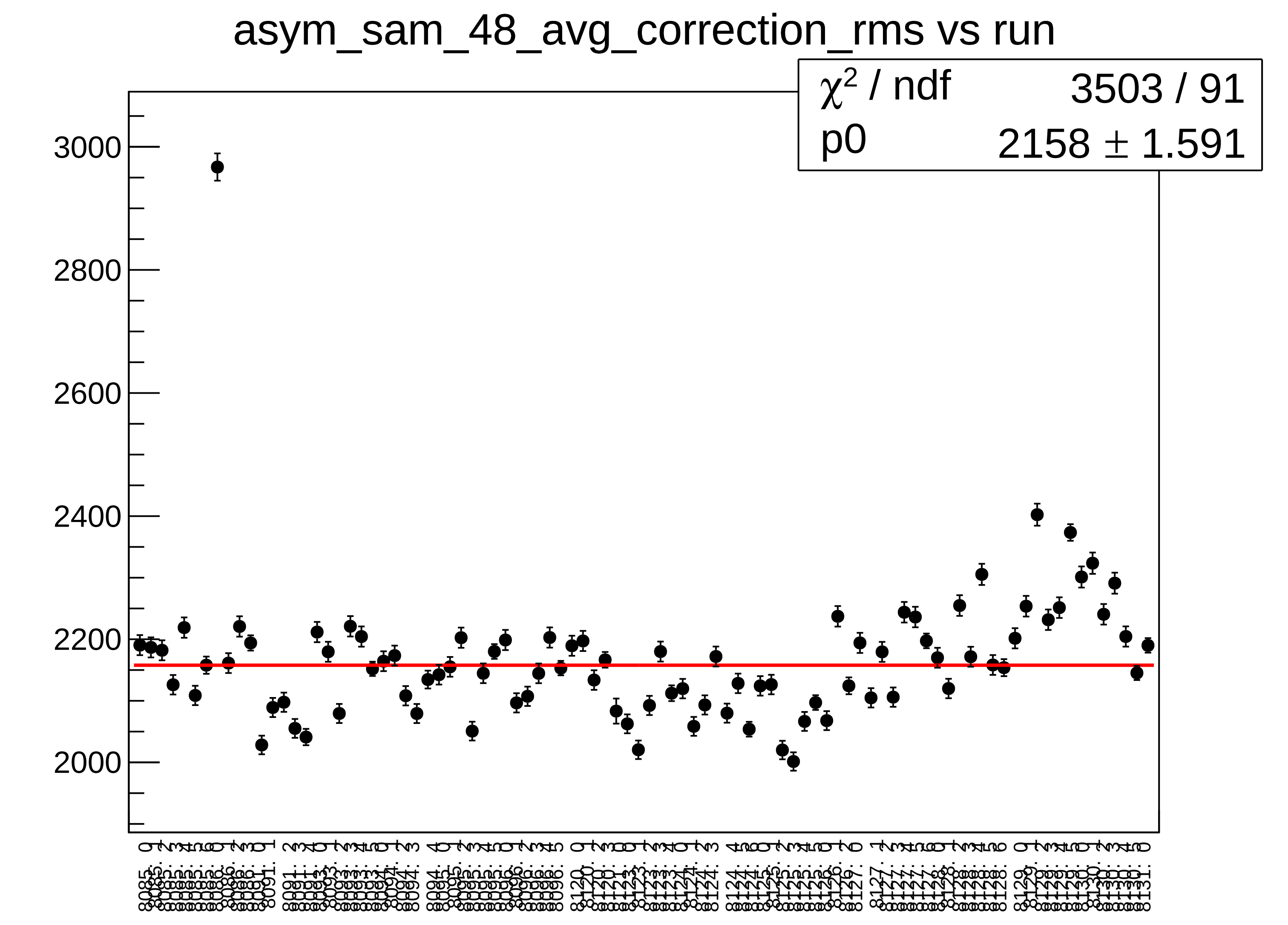
reg_asym_sam_48_avg_mean vs run
χ^2 / ndf 90.28 / 91
p0 110.6 ± 162.2
pull
Entries 92
Mean −197.6
Std Dev 248.5
pull1D
Entries 92
Mean 0.01929
Std Dev 0.9904



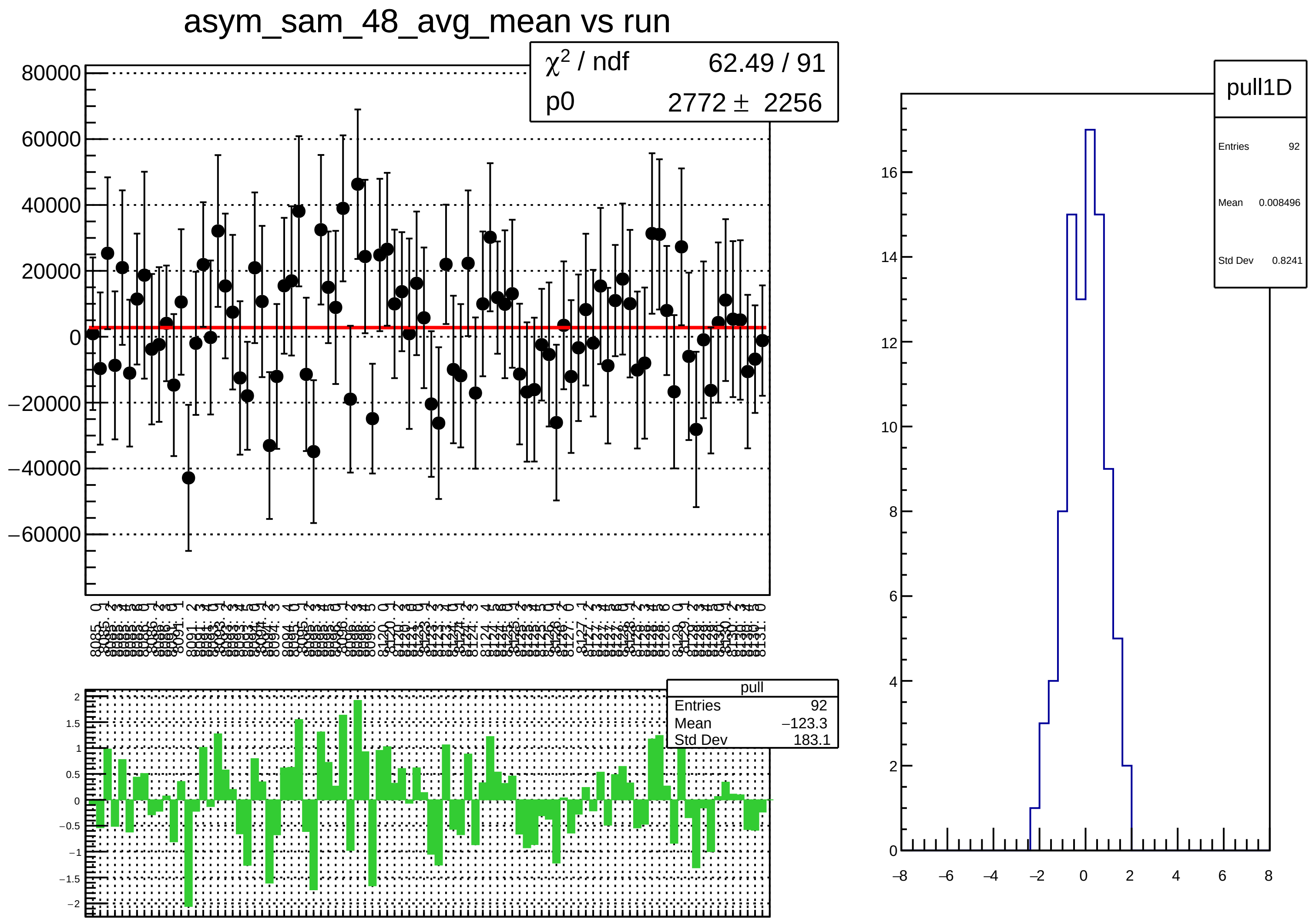
reg_asym_sam_48_avg_rms vs run
χ^2 / ndf 1.6e+04 / 91
p0 155 ± 0.1147
280
260
240
220
200
180
160
140



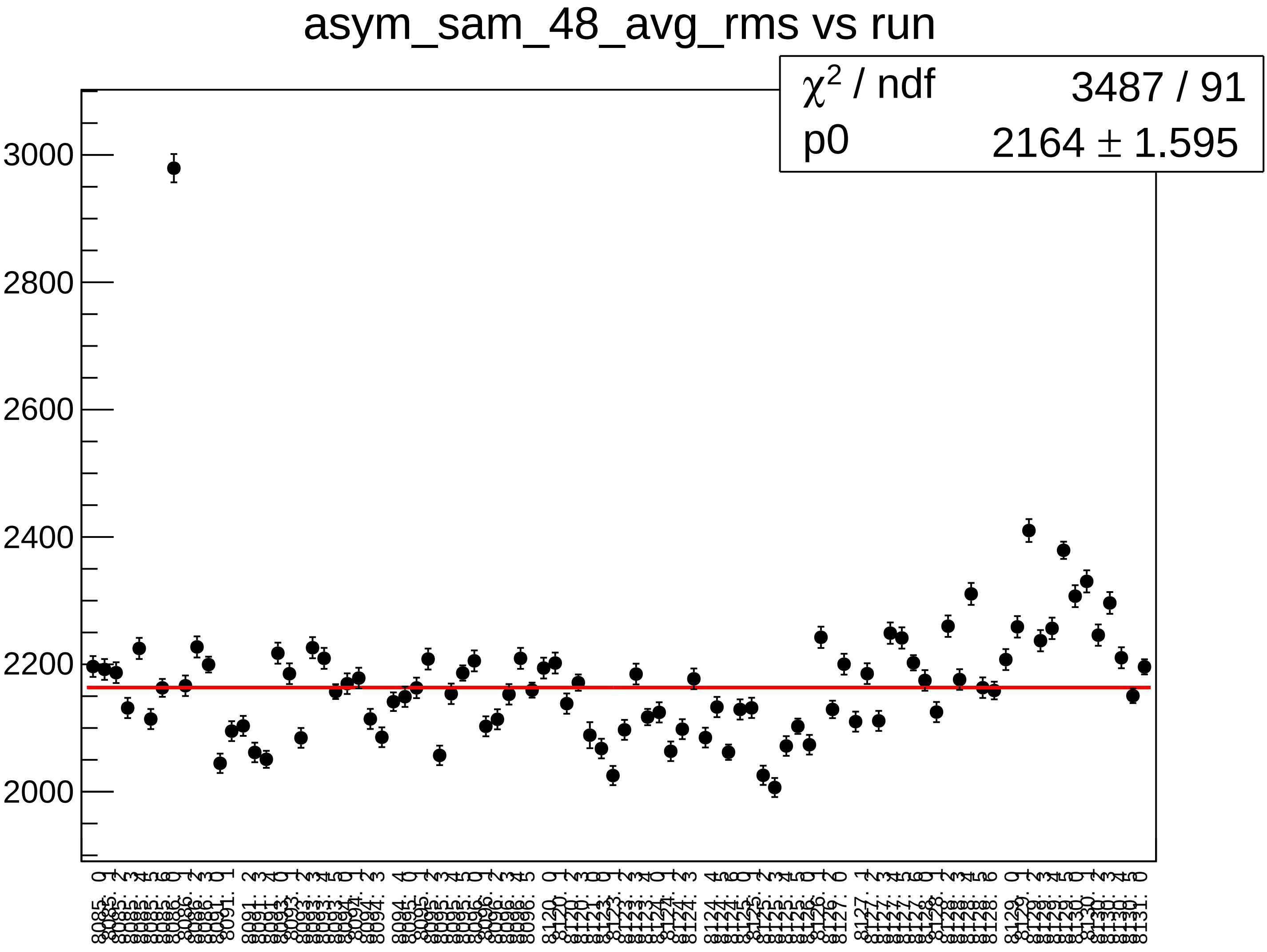
asym_sam_48_avg_correction_mean vs run
χ2 / ndf 61.87 / 91
p0 −2645 ± 2250
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −101.3
Std Dev 164.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.007323
Std Dev 0.82
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

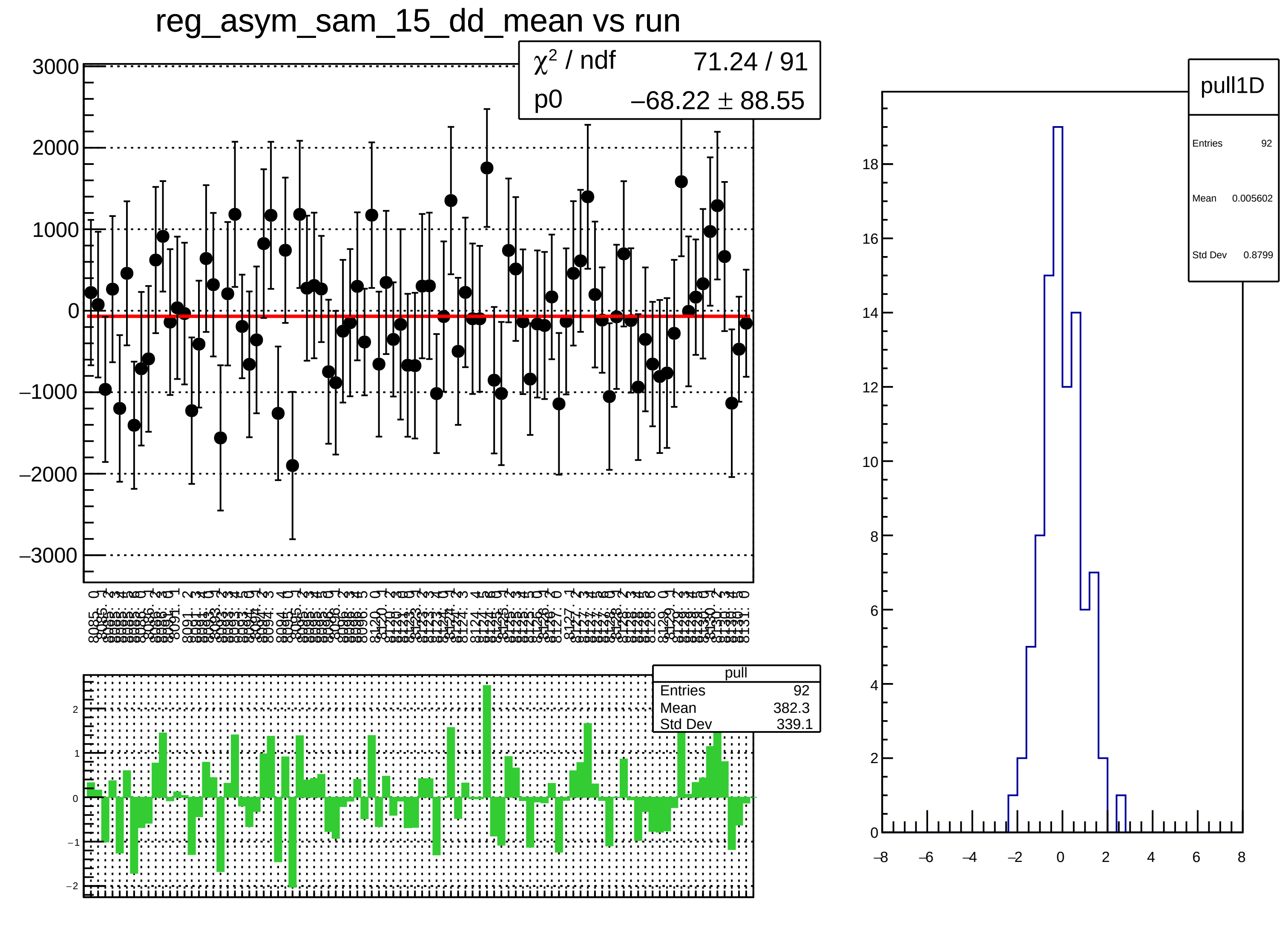


asym_sam_48_avg_correction_rms vs run
χ^2 / ndf 3503 / 91
p0 2158 ± 1.591
3000
2800
2600
2400
2200
2000



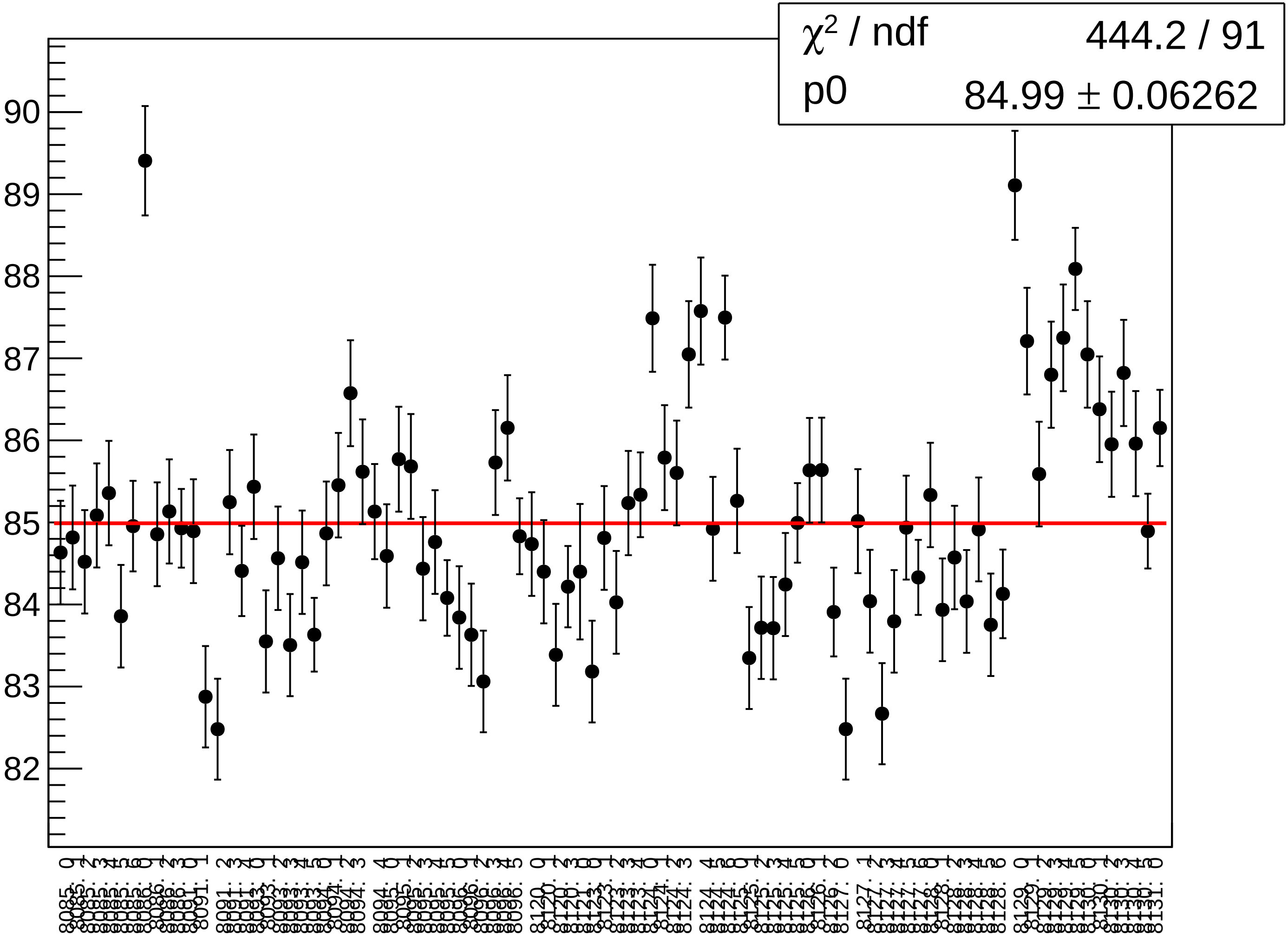
asym_sam_48_avg_mean vs run
χ^2 / ndf 62.49 / 91
p0 2772 ± 2256
pull
Entries 92
Mean −123.3
Std Dev 183.1
pull1D
Entries 92
Mean 0.008496
Std Dev 0.8241

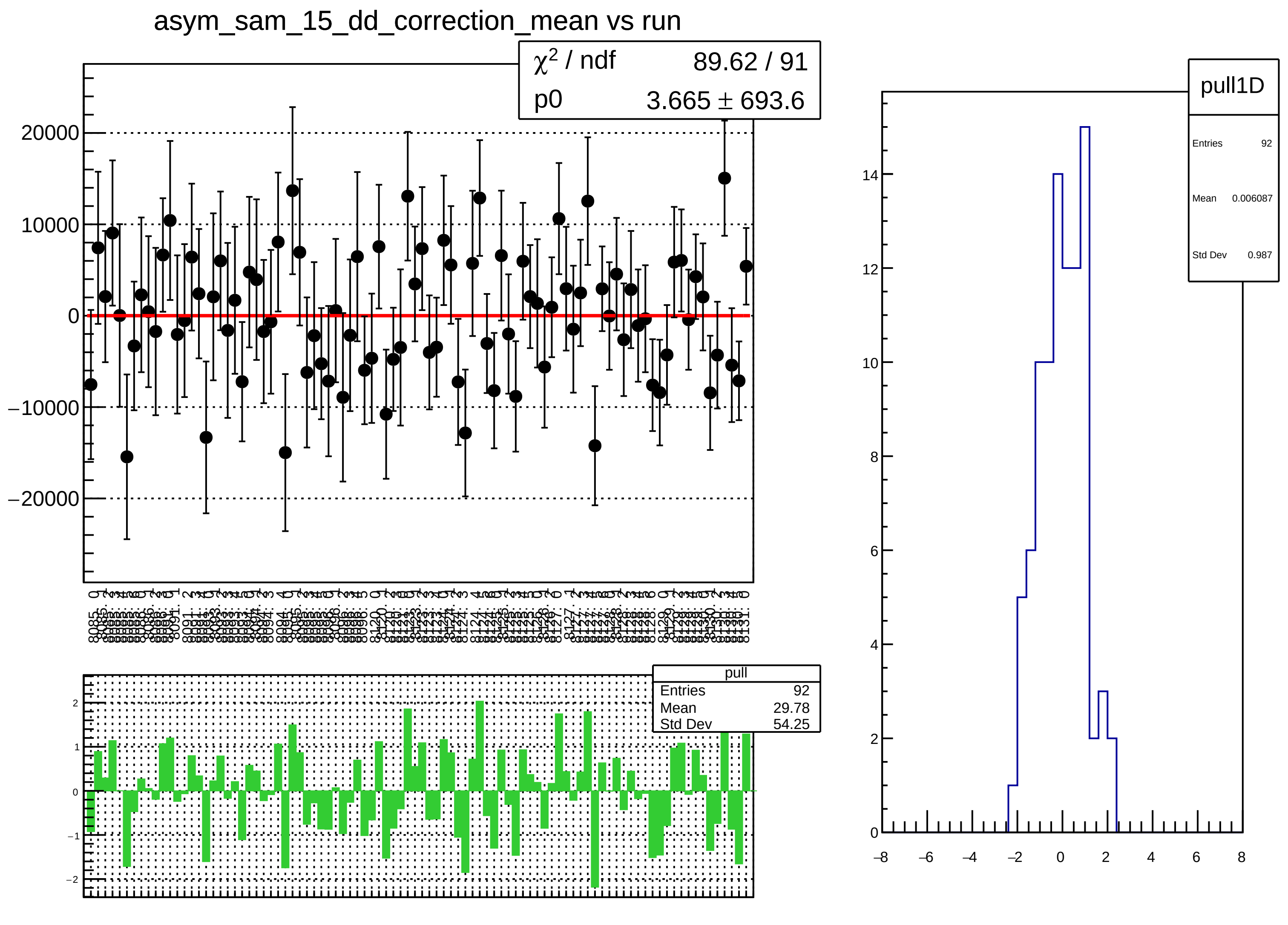

asym_sam_48_avg_rms vs run
χ^2 / ndf 3487 / 91
p0 2164 ± 1.595
3000
2800
2600
2400
2200
2000



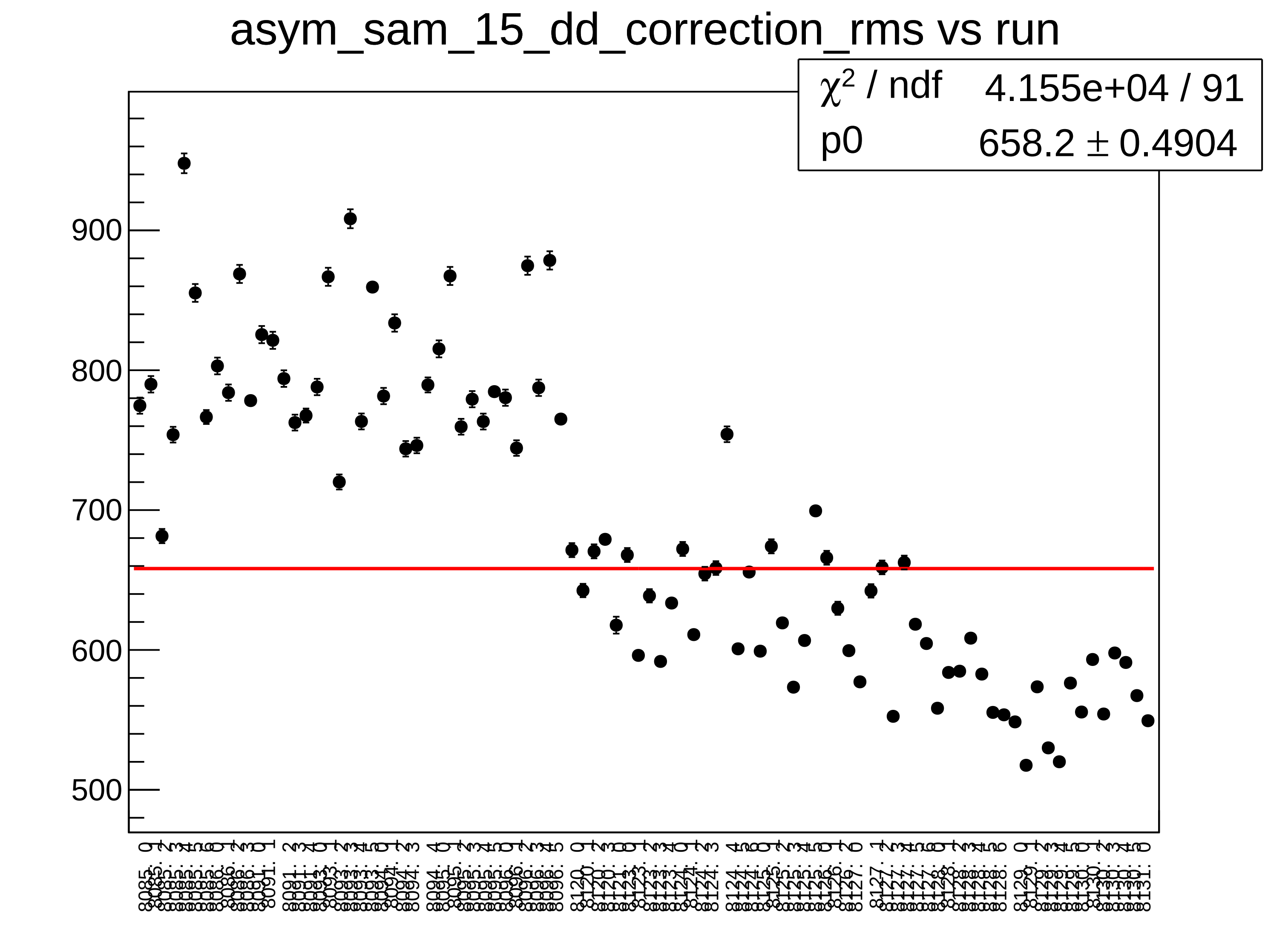
reg_asym_sam_15_dd_mean vs run
χ2 / ndf 71.24 / 91
p0 −68.22 ± 88.55
pull
Entries 92
Mean 382.3
Std Dev 339.1
pull1D
Entries 92
Mean 0.005602
Std Dev 0.8799

reg_asym_sam_15_dd_rms vs run

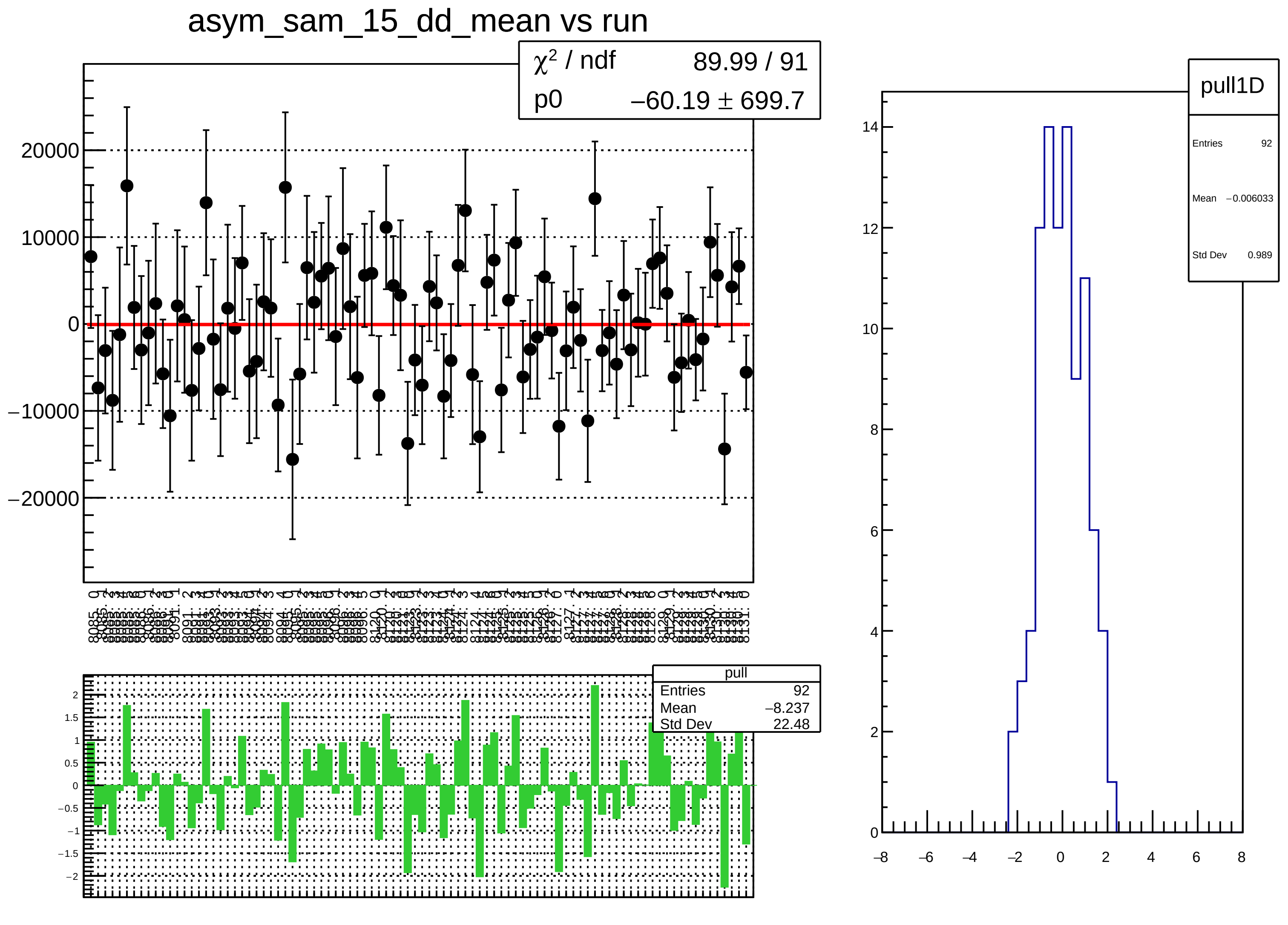




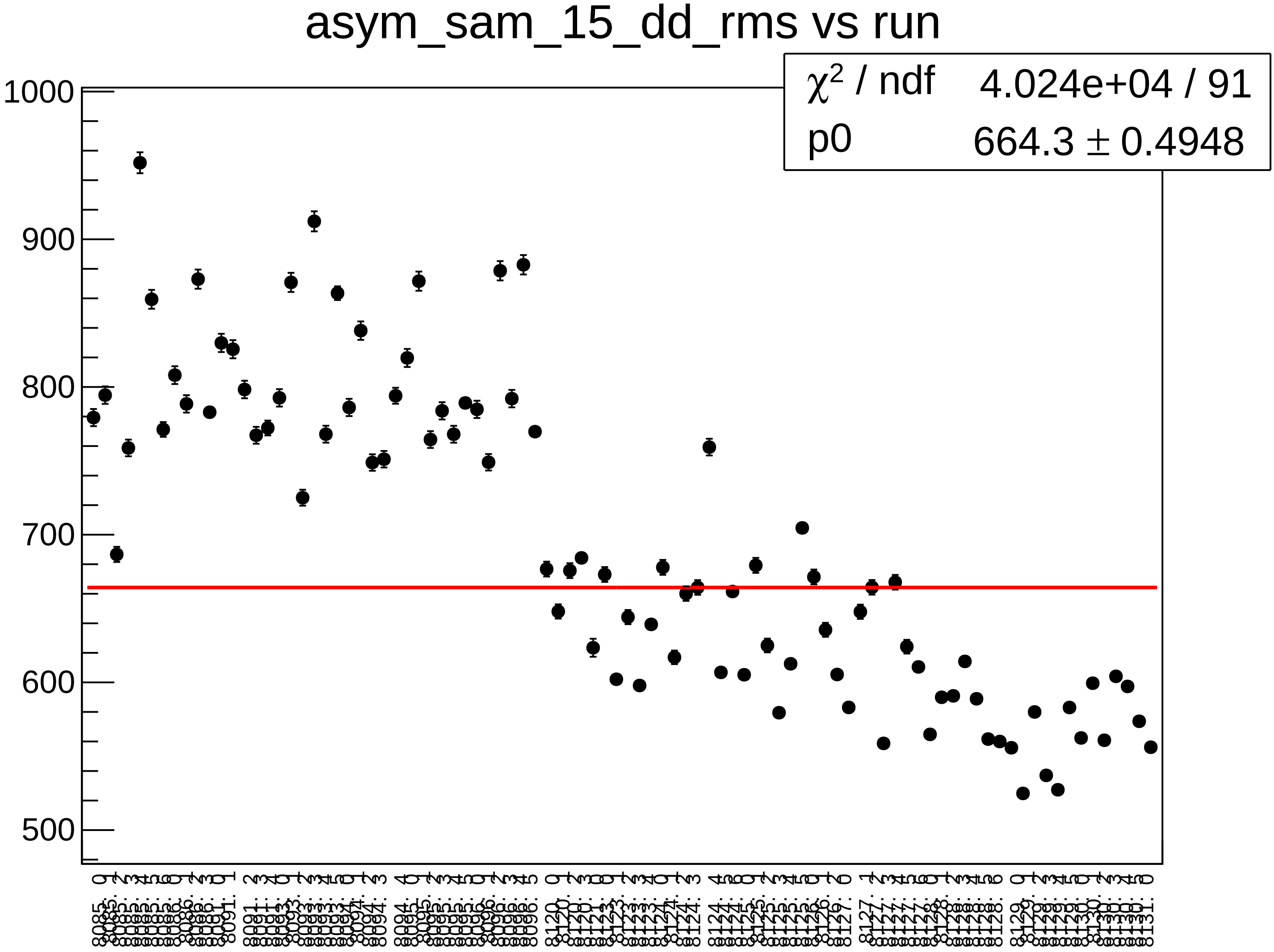
asym_sam_15_dd_correction_mean vs run
χ^2 / ndf 89.62 / 91
p0 3.665 ± 693.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 29.78
Std Dev 54.25
pull1D
Entries 92
Mean 0.006087
Std Dev 0.987



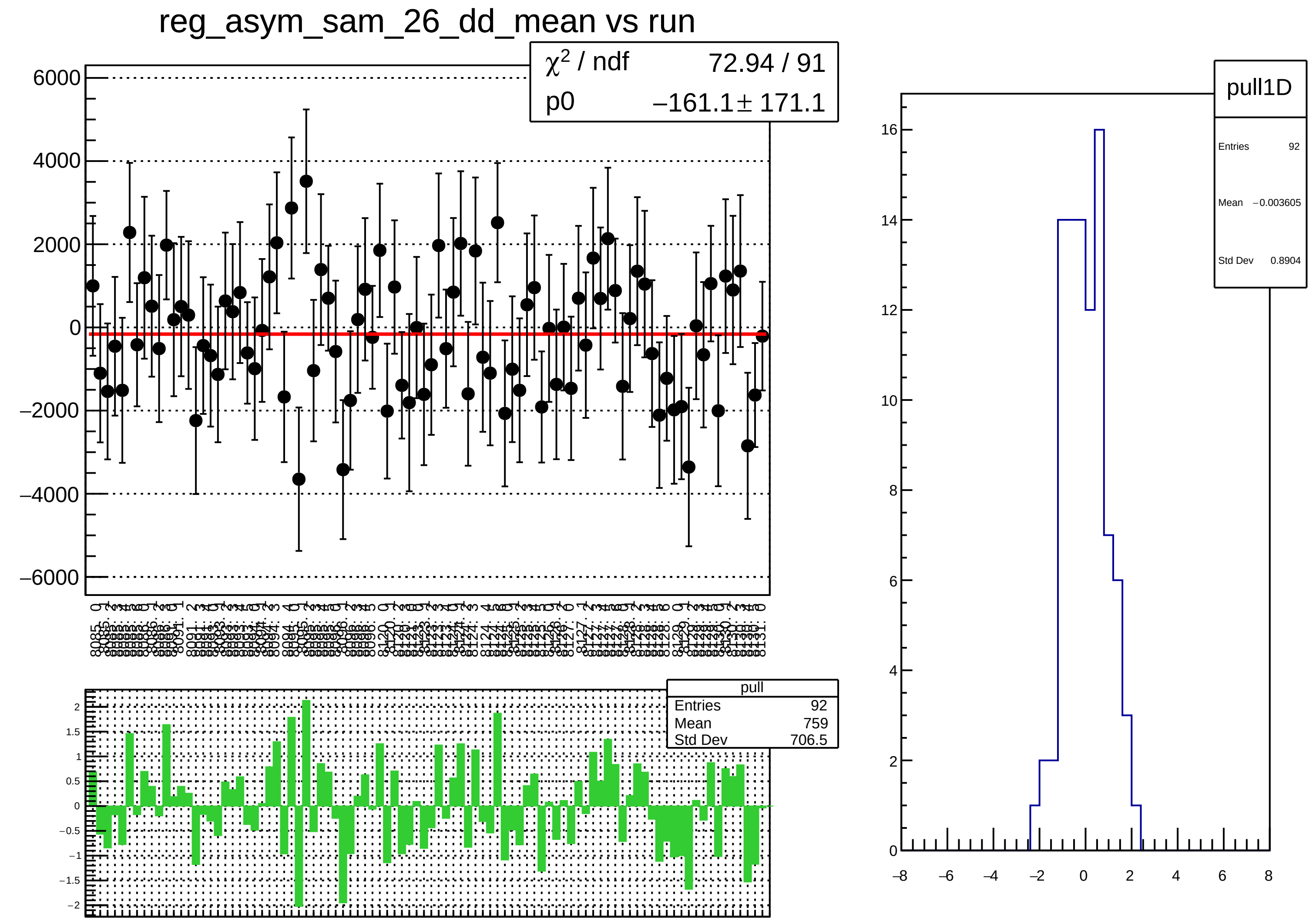
asym_sam_15_dd_correction_rms vs run
χ^2 / ndf 4.155e+04 / 91
p0 658.2 ± 0.4904
900
800
700
600
500

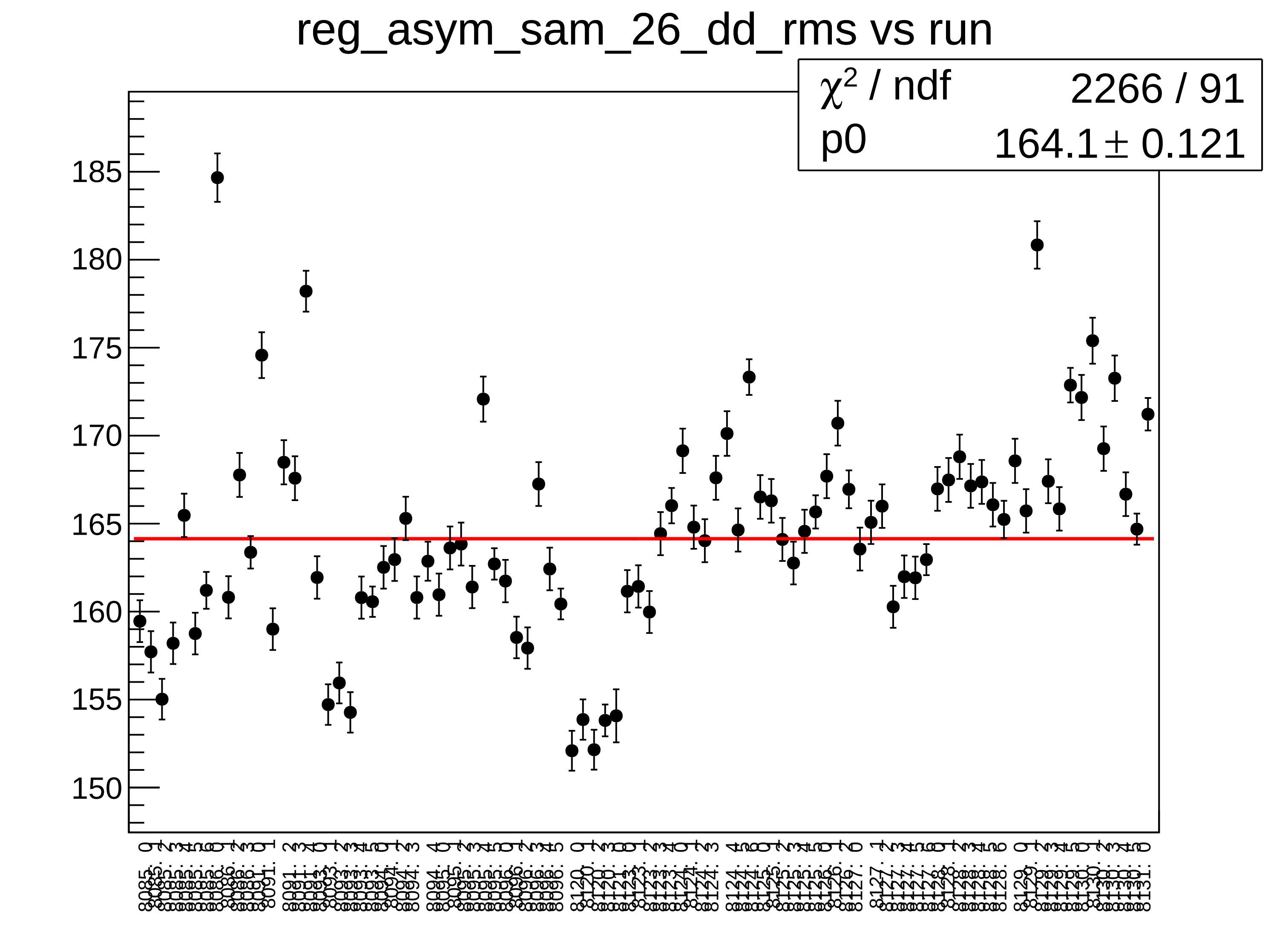


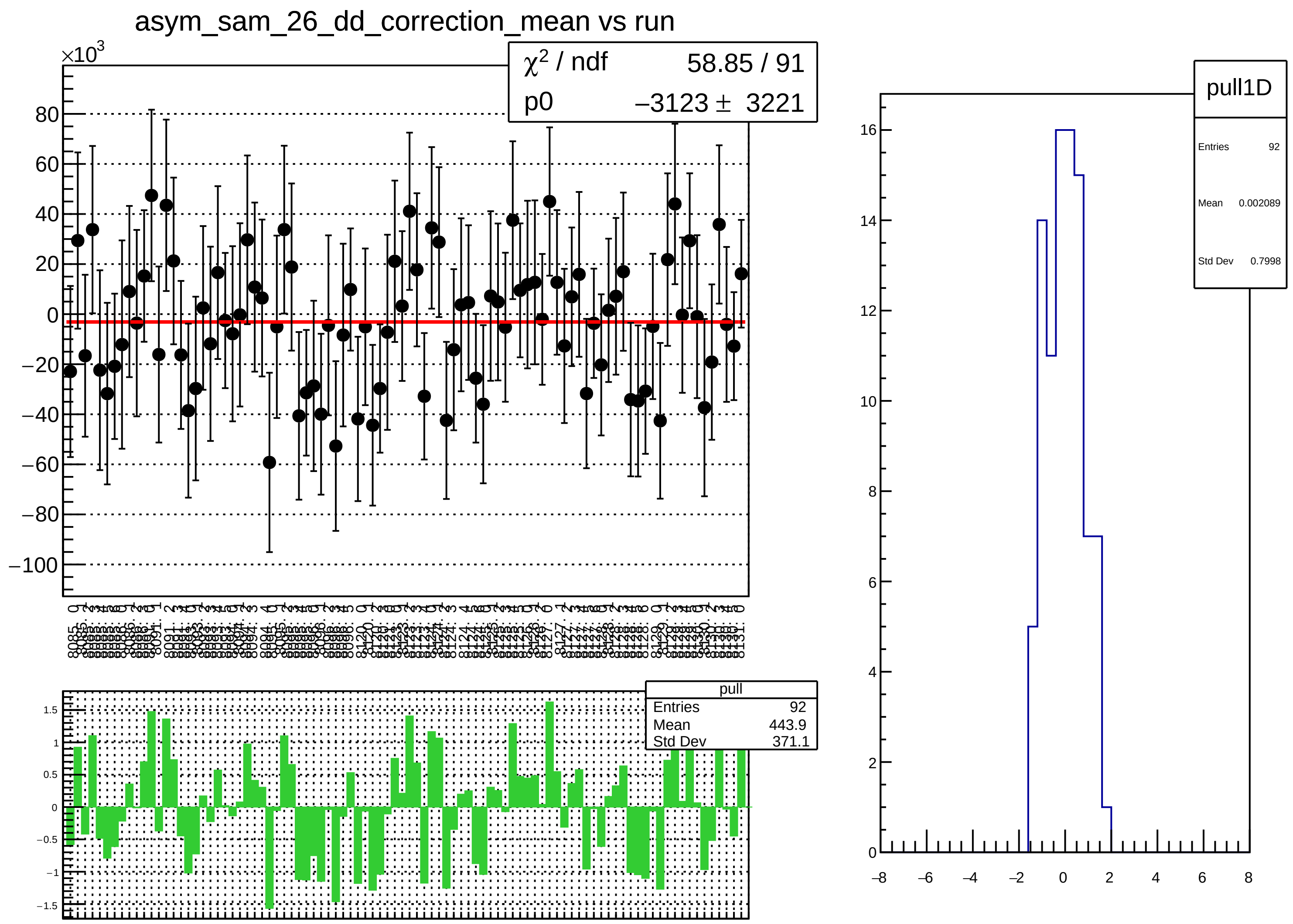
asym_sam_15_dd_mean vs run
χ^2 / ndf 89.99 / 91
p0 −60.19 ± 699.7
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −8.237
Std Dev 22.48
pull1D
Entries 92
Mean −0.006033
Std Dev 0.989



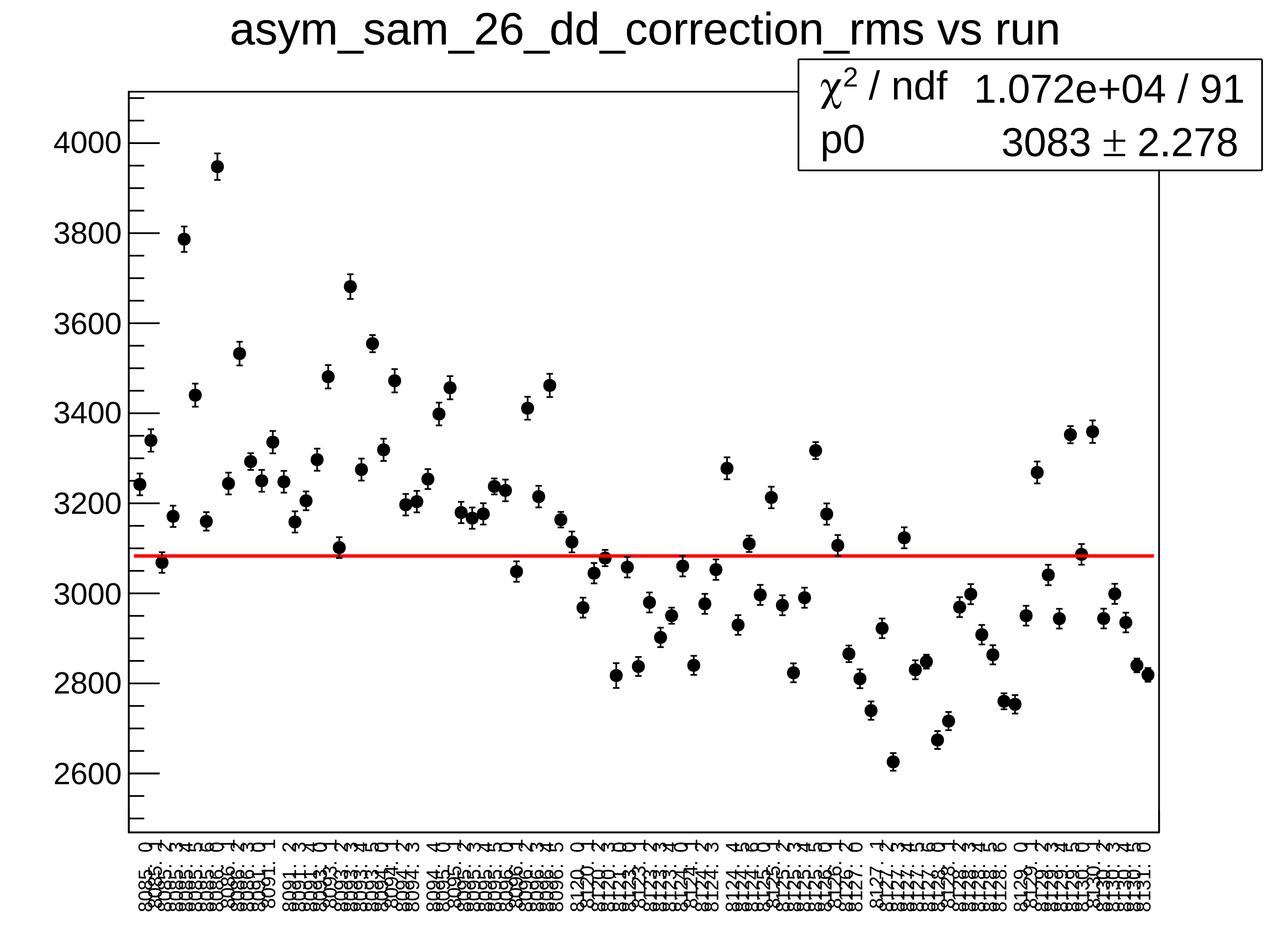
asym_sam_15_dd_rms vs run
χ2 / ndf 4.024e+04 / 91
p0 664.3 ± 0.4948
1000
900
800
700
600
500


reg_asym_sam_26_dd_mean vs run
χ² / ndf 72.94 / 91
p0 −161.1 ± 171.1
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 92
Mean 759
Std Dev 706.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.003605
Std Dev 0.8904
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

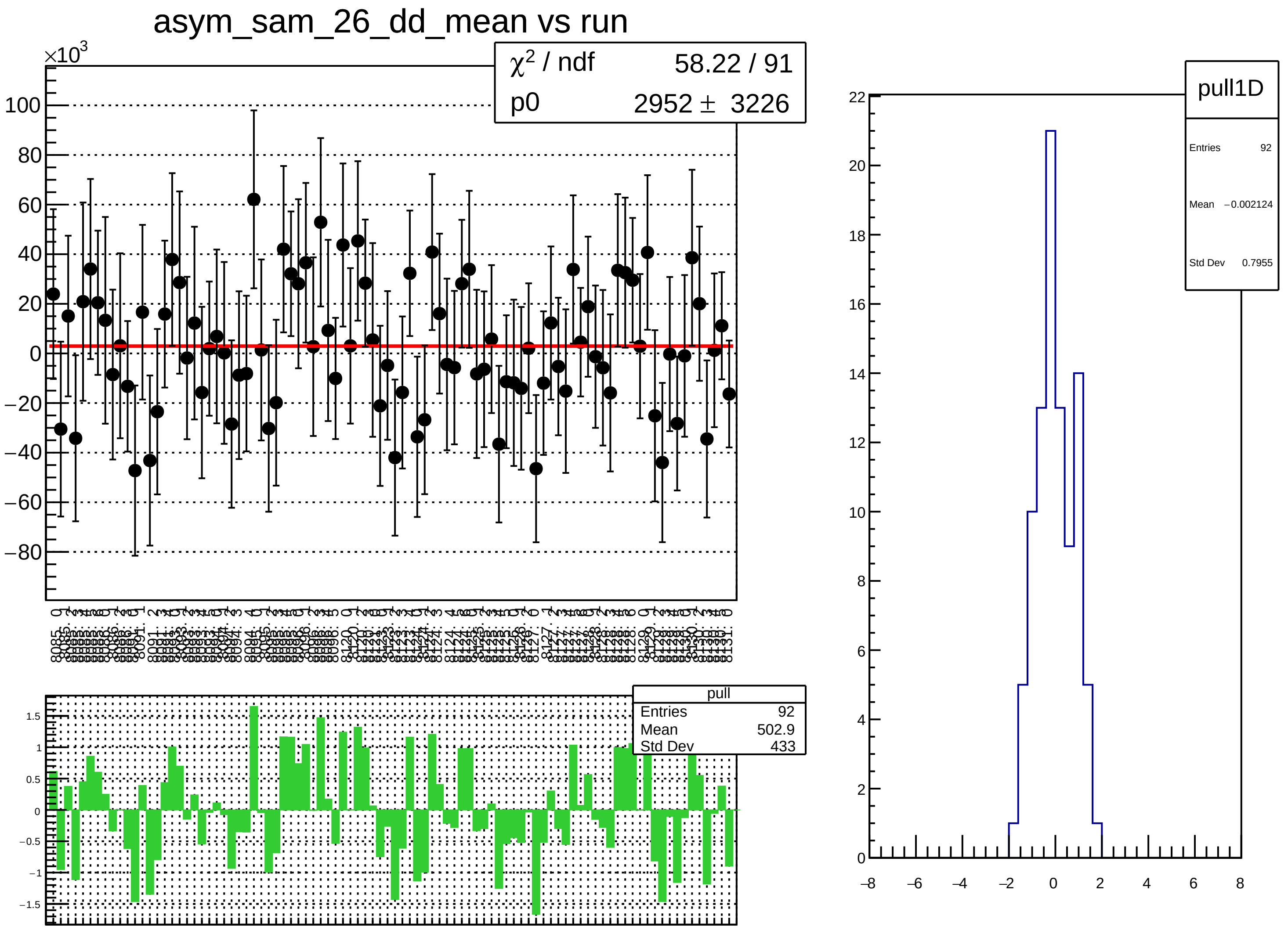

reg_asym_sam_26_dd_rms vs run
χ2 / ndf 2266 / 91
p0 164.1 ± 0.121



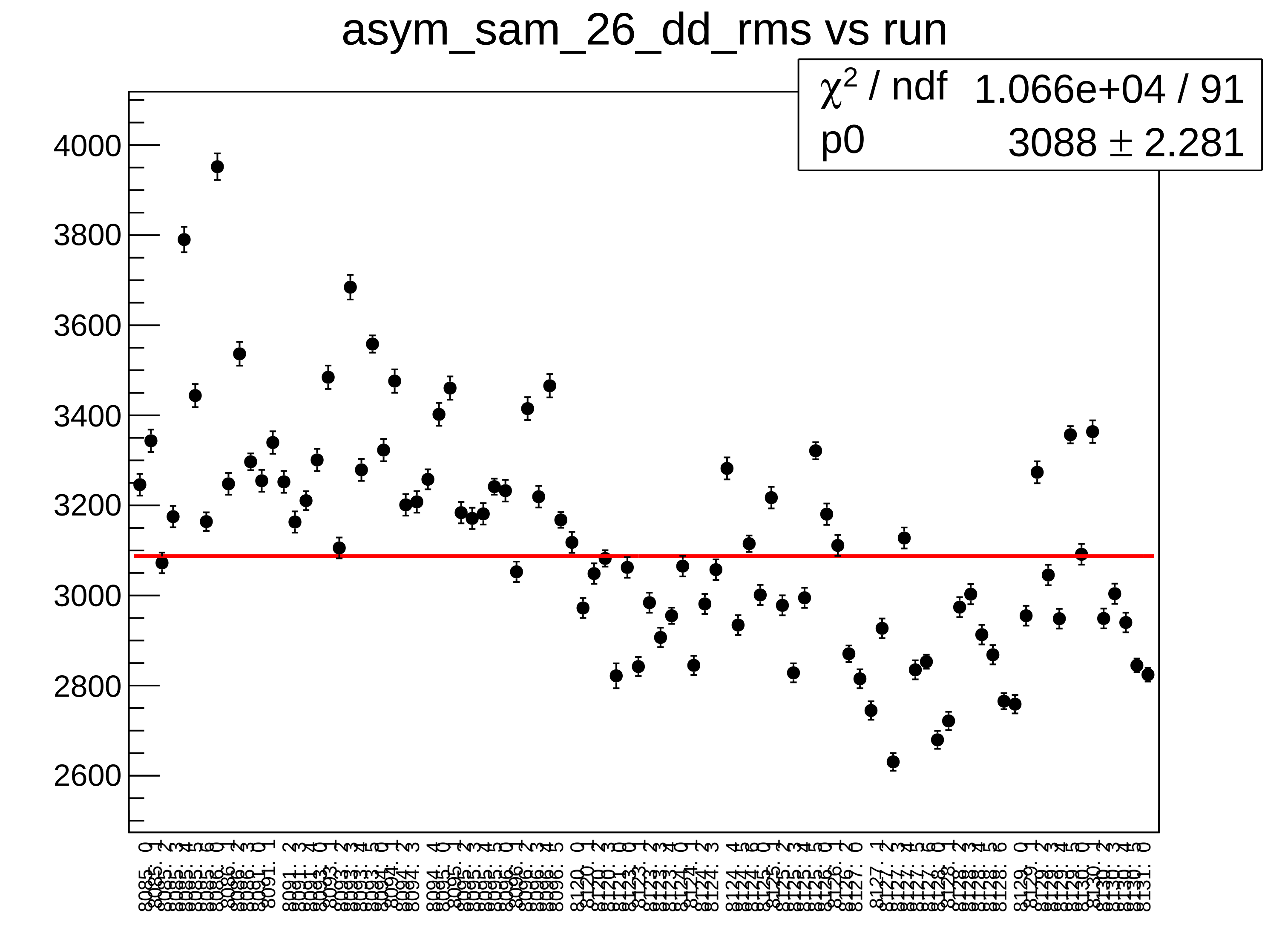
asym_sam_26_dd_correction_mean vs run
$\times 10^3$
χ^2 / ndf 58.85 / 91
p0 −3123 ± 3221
pull
Entries 92
Mean 443.9
Std Dev 371.1
pull1D
Entries 92
Mean 0.002089
Std Dev 0.7998



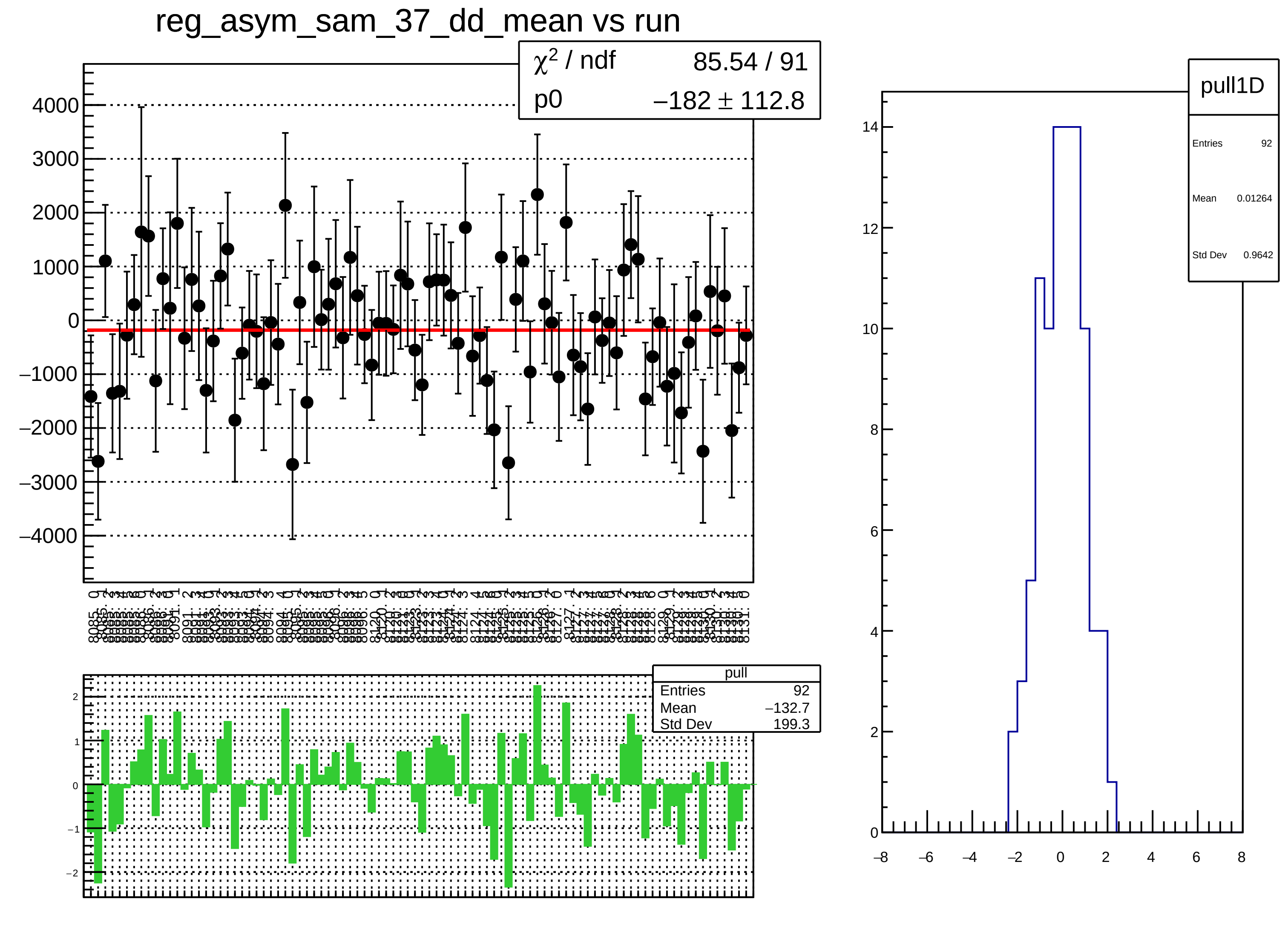
asym_sam_26_dd_correction_rms vs run
χ^2 / ndf 1.072e+04 / 91
p0 3083 ± 2.278
4000
3800
3600
3400
3200
3000
2800
2600



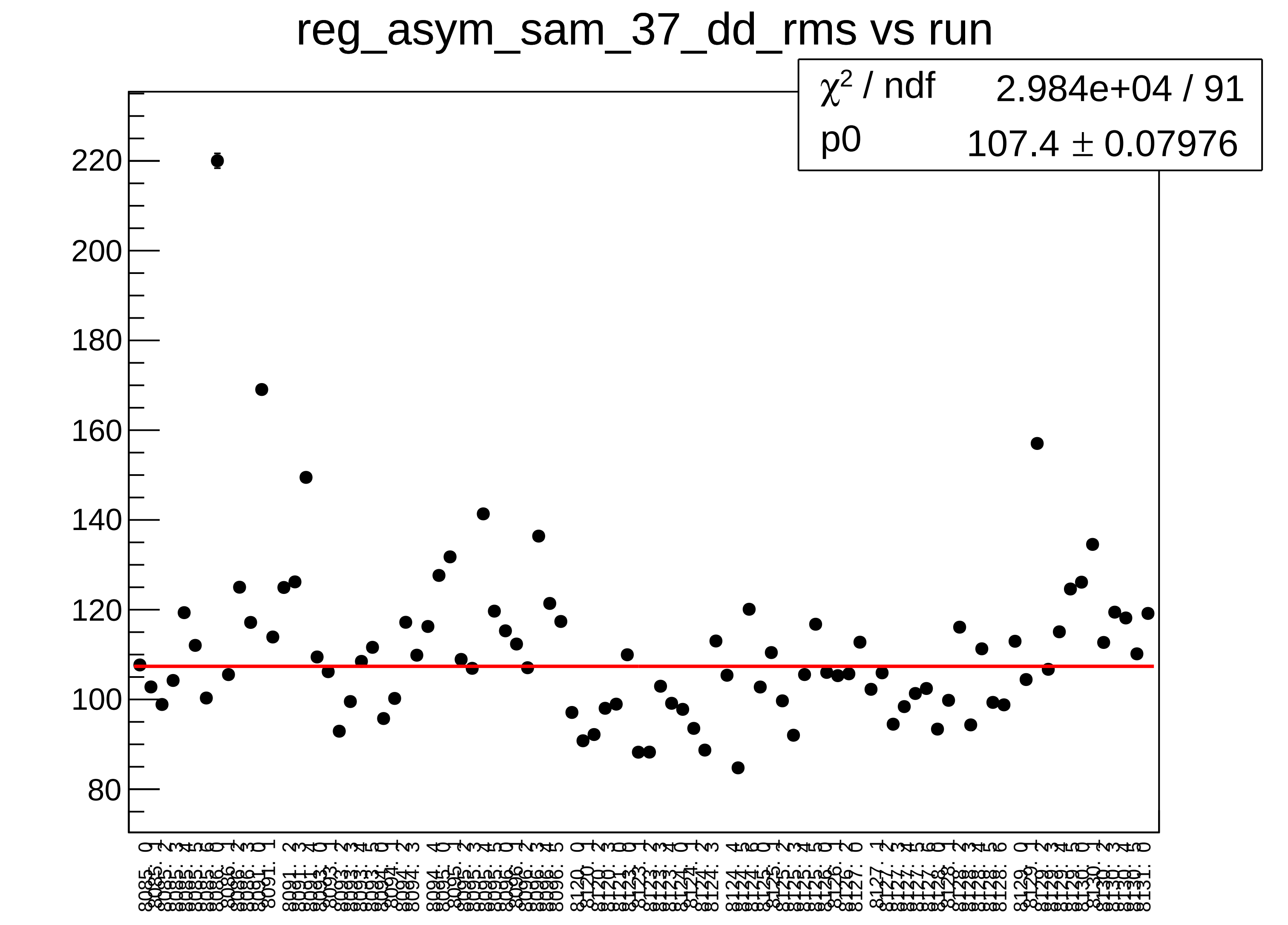
asym_sam_26_dd_mean vs run
χ^2 / ndf 58.22 / 91
p0 2952 ± 3226
×10^3
pull
Entries 92
Mean 502.9
Std Dev 433
pull1D
Entries 92
Mean −0.002124
Std Dev 0.7955



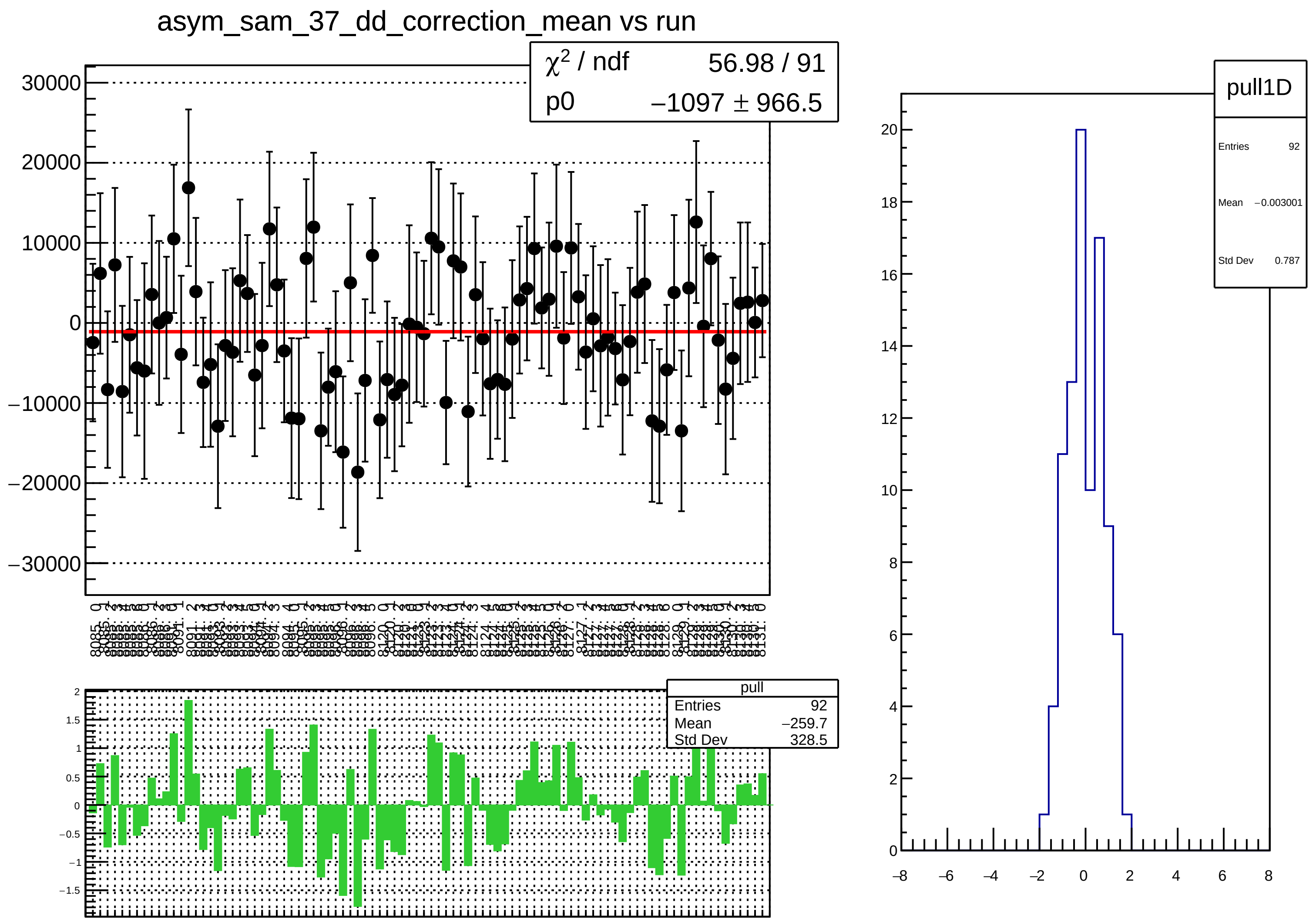
asym_sam_26_dd_rms vs run
χ^2 / ndf 1.066e+04 / 91
p0 3088 ± 2.281
4000
3800
3600
3400
3200
3000
2800
2600

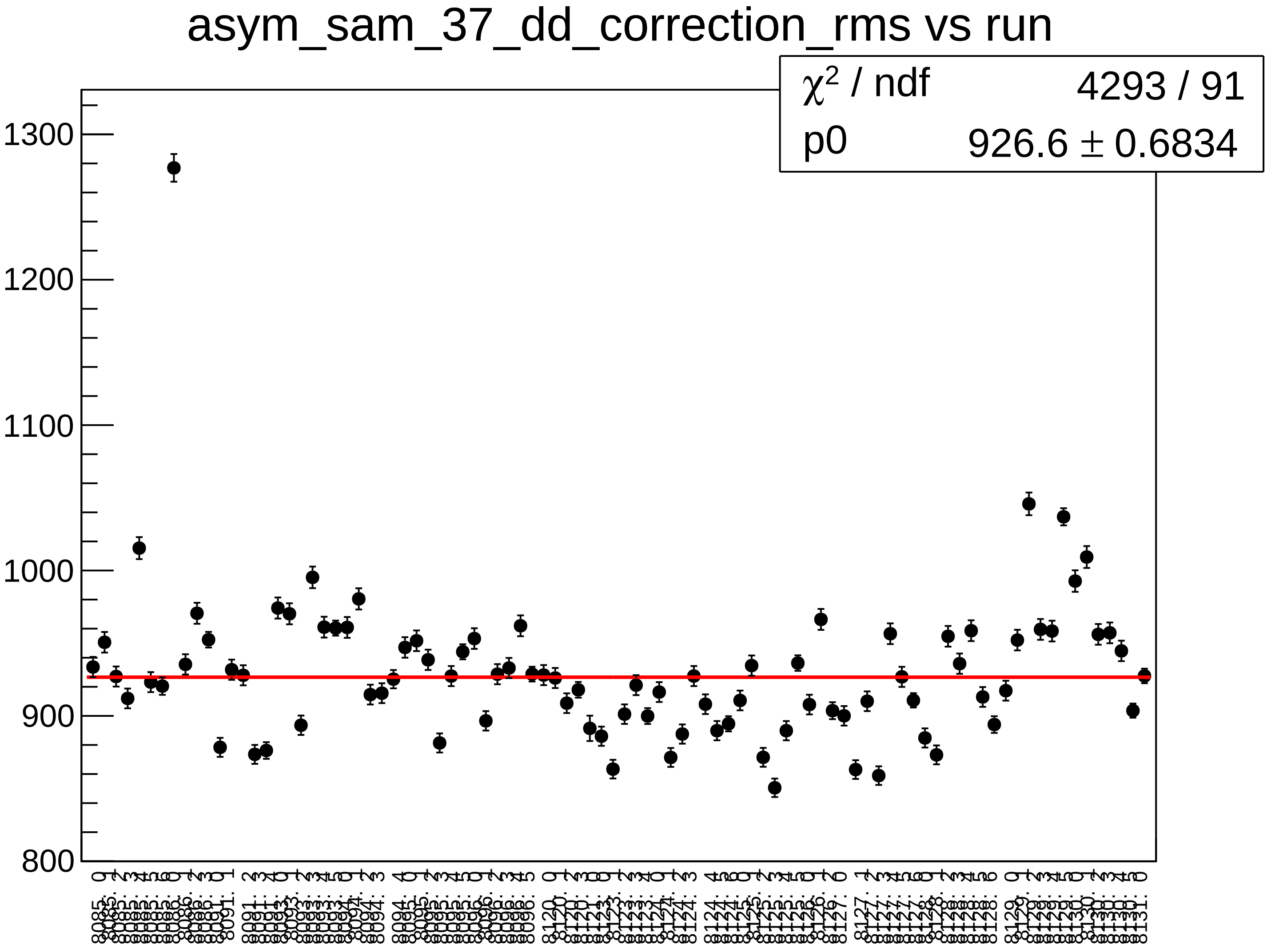


reg_asym_sam_37_dd_mean vs run
χ^2 / ndf 85.54 / 91
p0 −182 ± 112.8
pull
Entries 92
Mean −132.7
Std Dev 199.3
pull1D
Entries 92
Mean 0.01264
Std Dev 0.9642

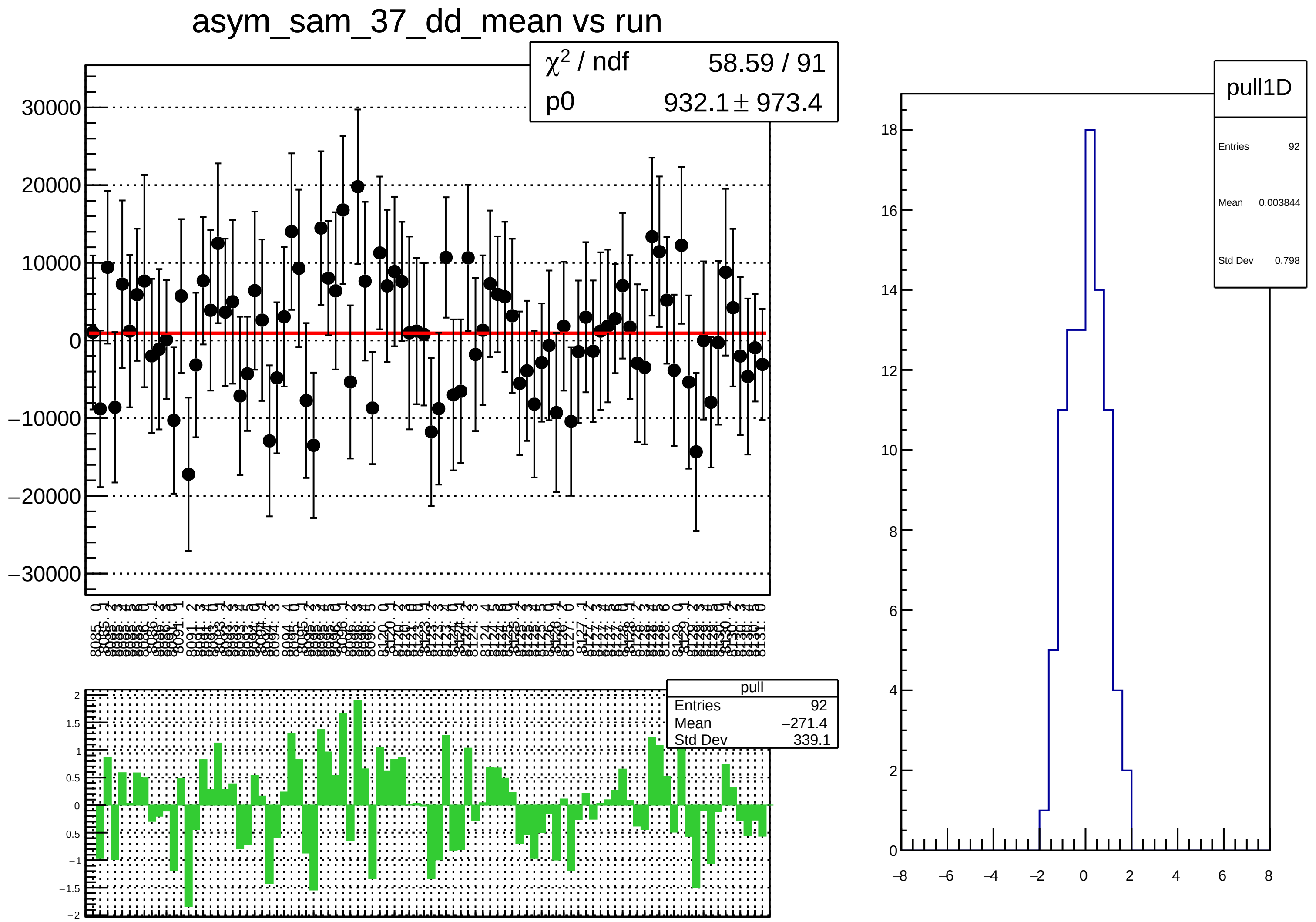


reg_asym_sam_37_dd_rms vs run
χ^2 / ndf 2.984e+04 / 91
p0 107.4 ± 0.07976
220
200
180
160
140
120
100
80

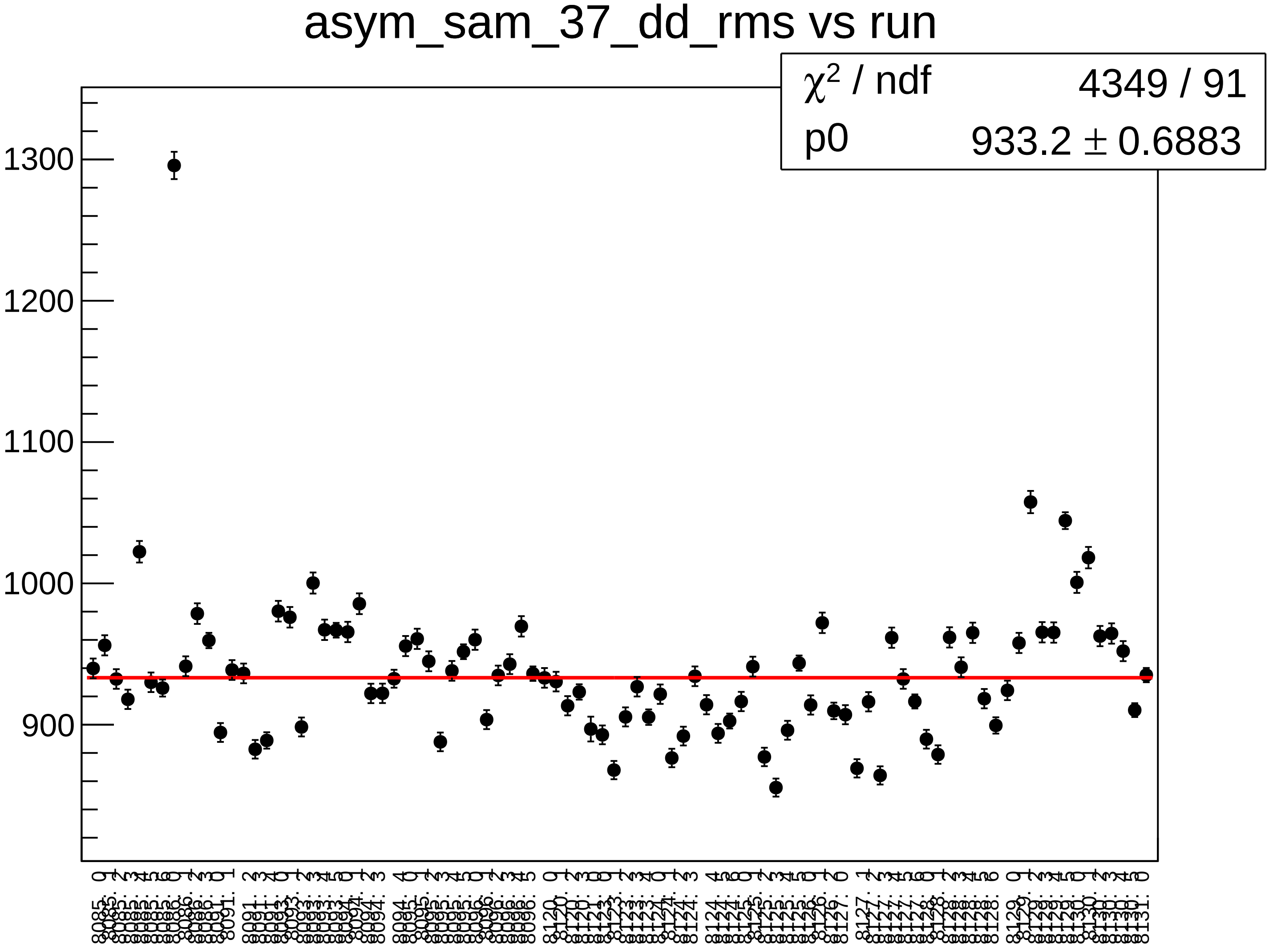

asym_sam_37_dd_correction_mean vs run
χ2 / ndf 56.98 / 91
p0 −1097 ± 966.5
pull
Entries 92
Mean −259.7
Std Dev 328.5
pull1D
Entries 92
Mean −0.003001
Std Dev 0.787

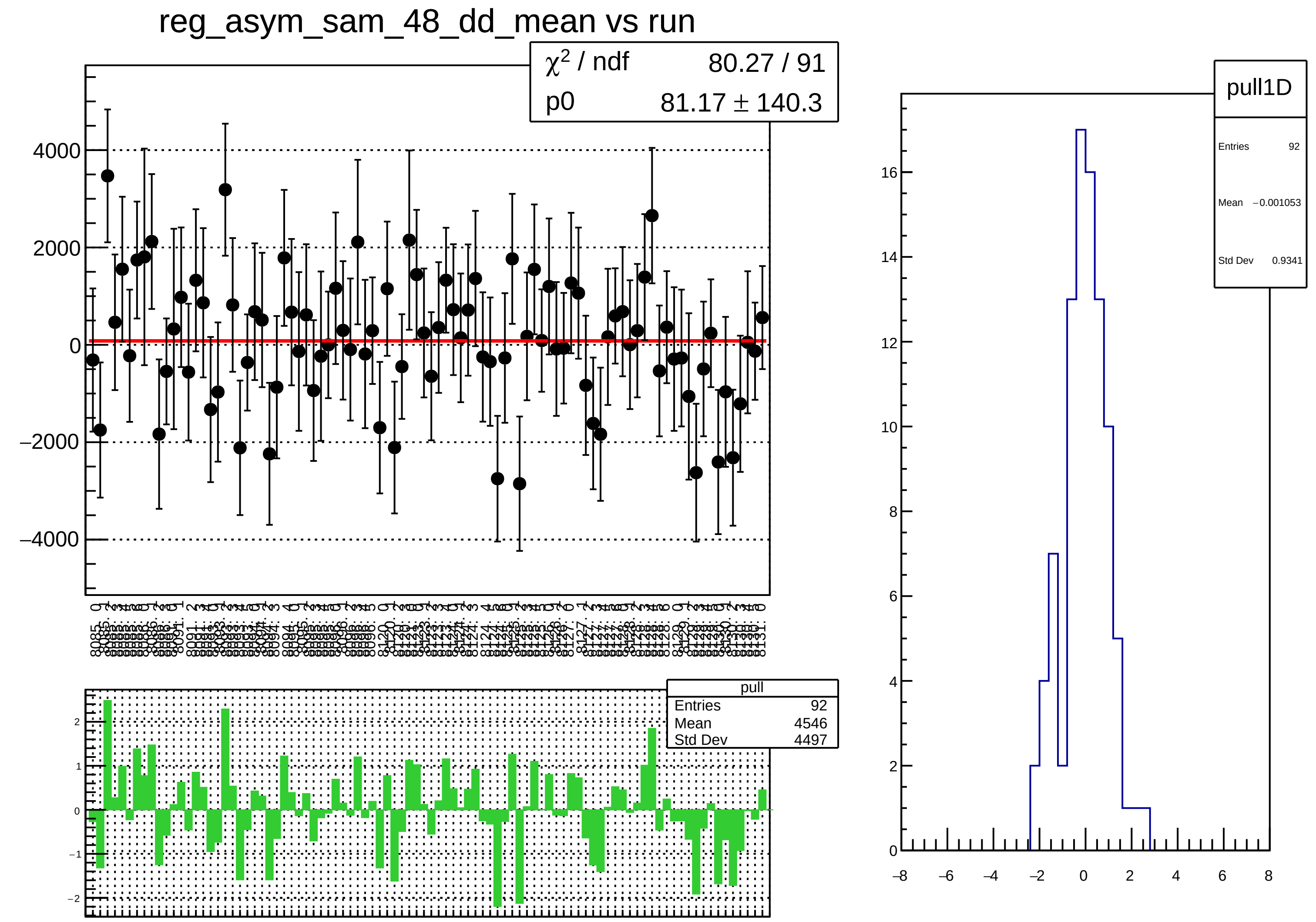


asym_sam_37_dd_correction_rms vs run
χ^2 / ndf 4293 / 91
p0 926.6 ± 0.6834
1300
1200
1100
1000
900
800

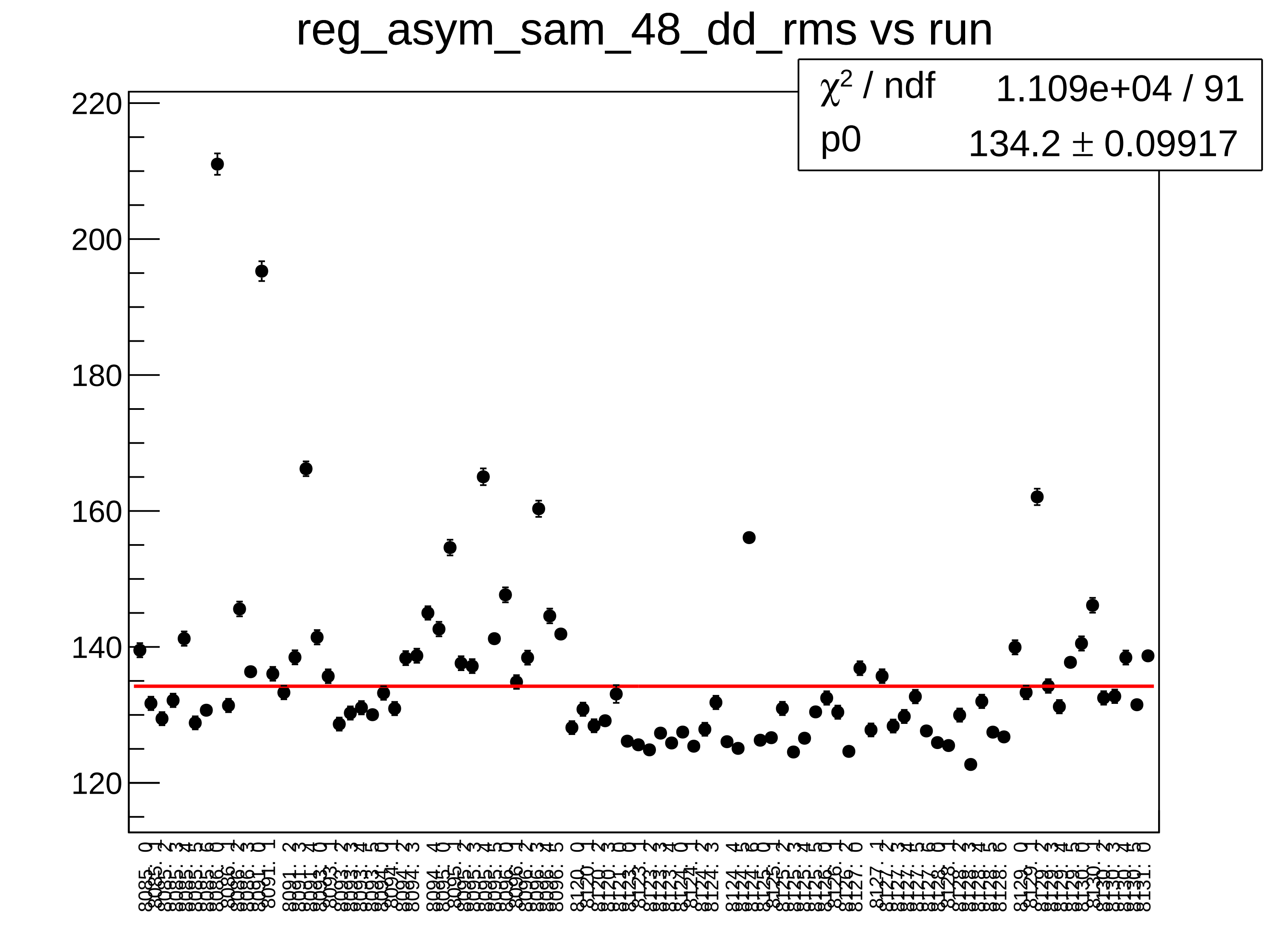


asym_sam_37_dd_mean vs run
χ^2 / ndf 58.59 / 91
p0 932.1 ± 973.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −271.4
Std Dev 339.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.003844
Std Dev 0.798
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

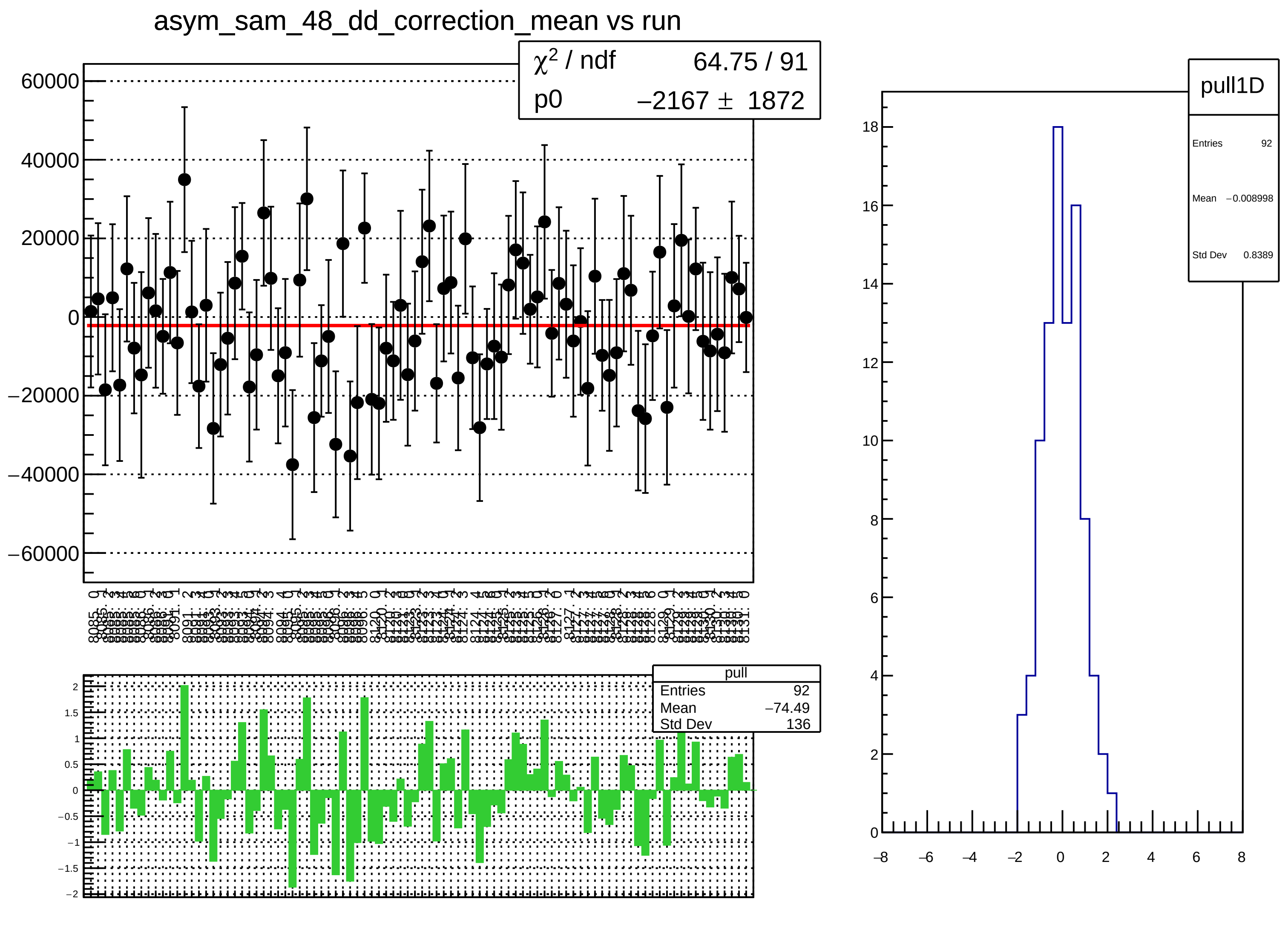

asym_sam_37_dd_rms vs run
χ2 / ndf 4349 / 91
p0 933.2 ± 0.6883
1300
1200
1100
1000
900

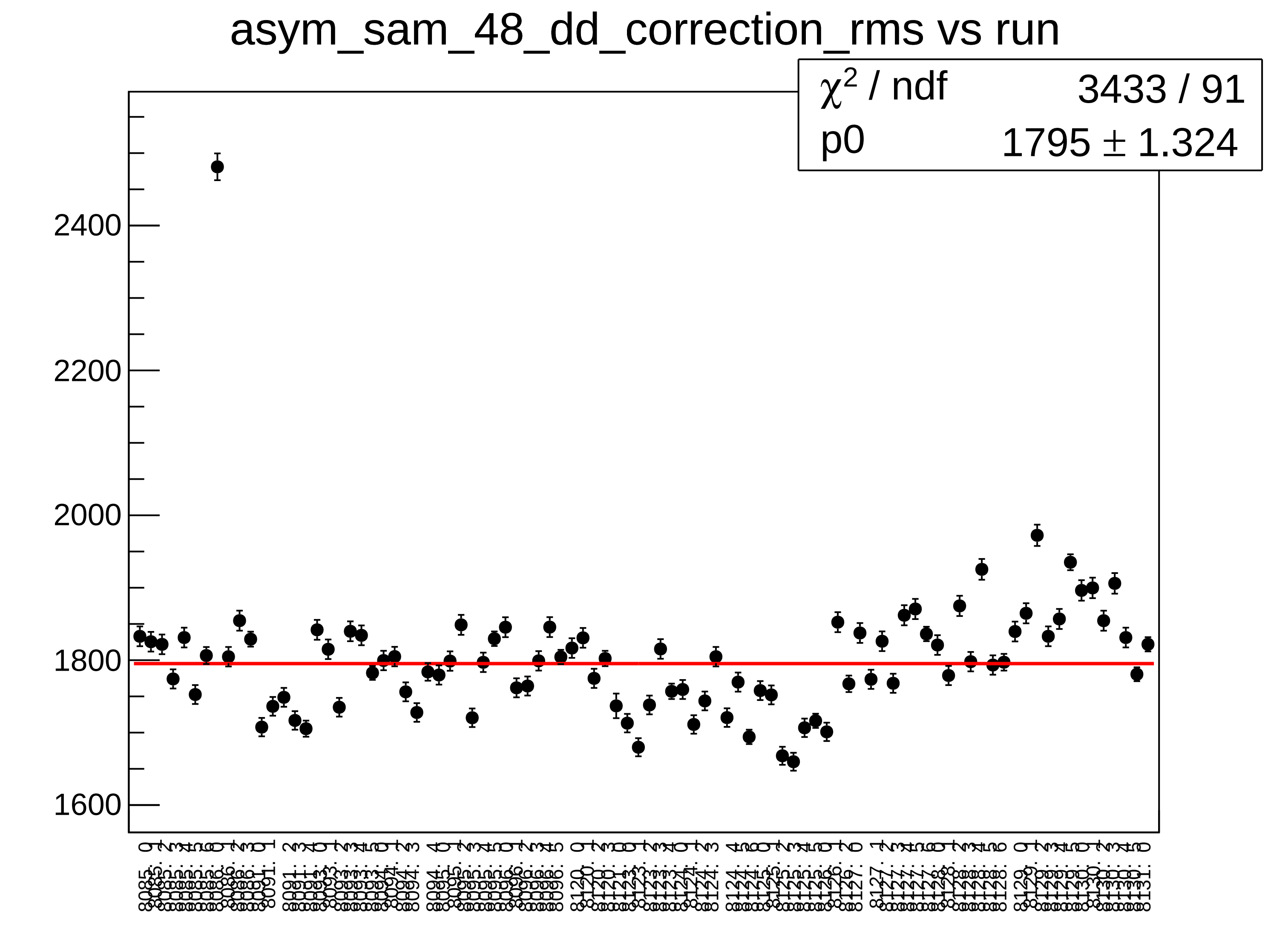


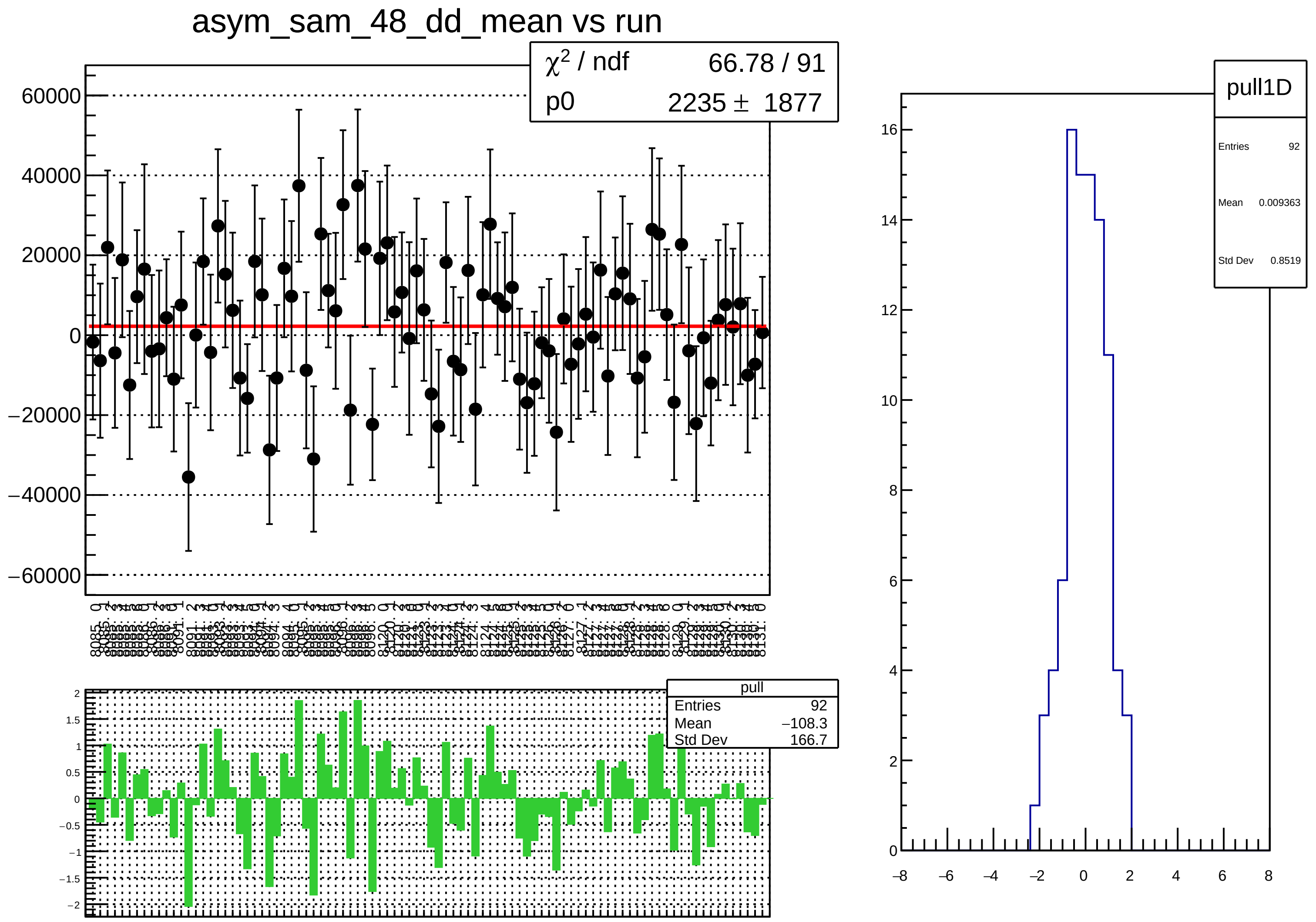
reg_asym_sam_48_dd_mean vs run
χ^2 / ndf 80.27 / 91
p0 81.17 ± 140.3
pull
Entries 92
Mean 4546
Std Dev 4497
pull1D
Entries 92
Mean −0.001053
Std Dev 0.9341

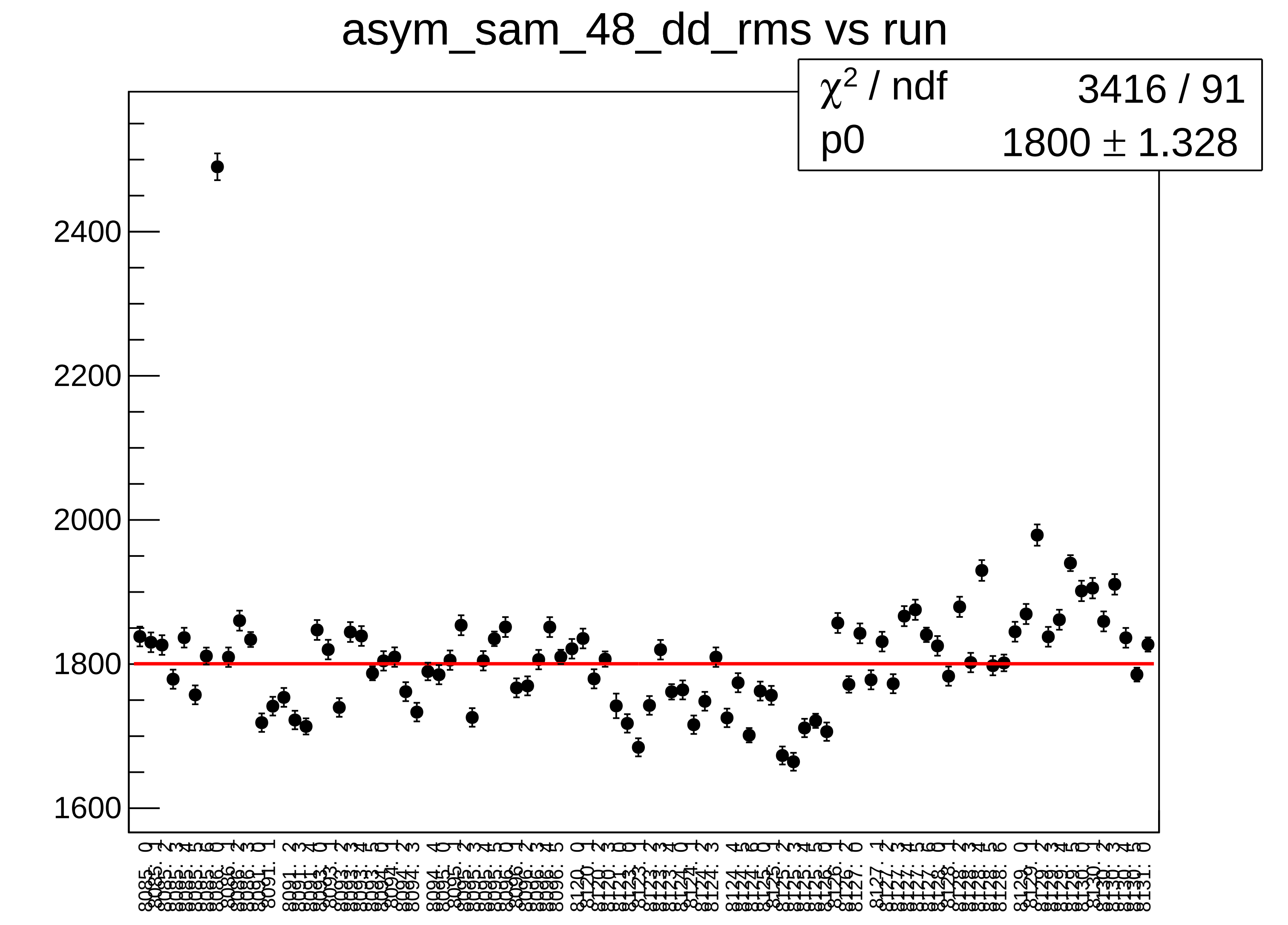


reg_asym_sam_48_dd_rms vs run
χ^2 / ndf 1.109e+04 / 91
p0 134.2 ± 0.09917
220
200
180
160
140
120

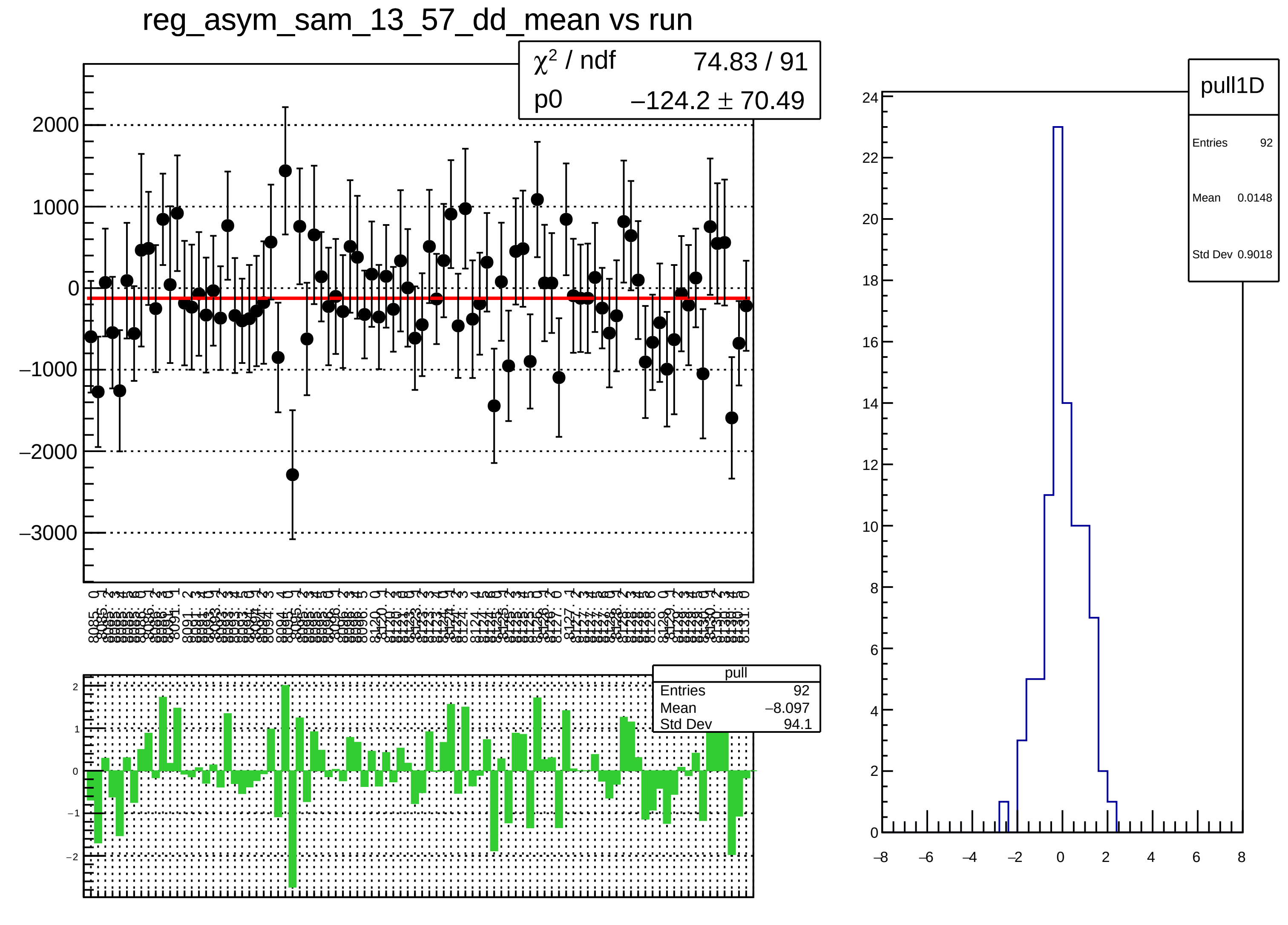

asym_sam_48_dd_correction_mean vs run
χ^2 / ndf 64.75 / 91
p0 −2167 ± 1872
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −74.49
Std Dev 136
pull1D
Entries 92
Mean −0.008998
Std Dev 0.8389

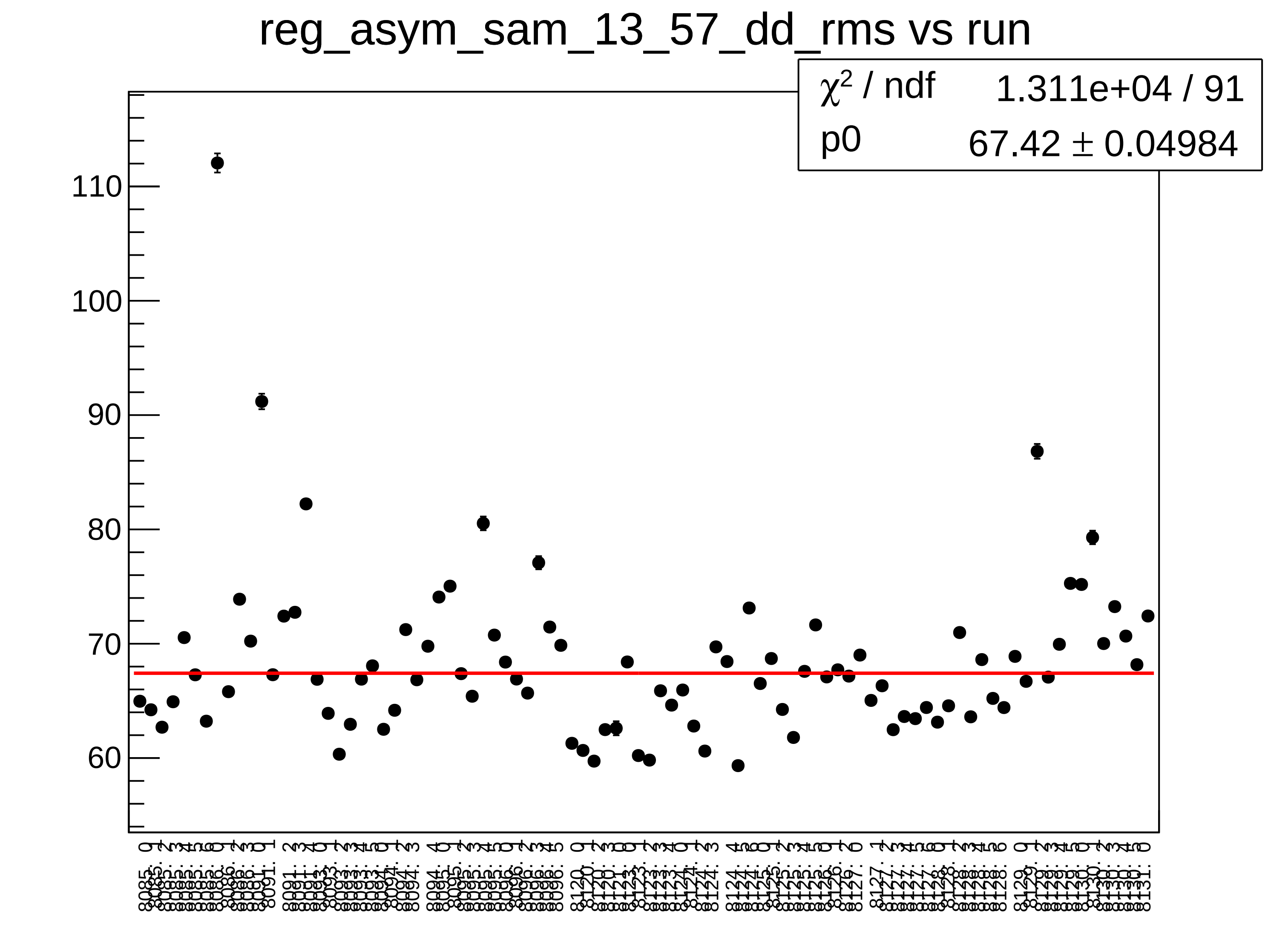

asym_sam_48_dd_correction_rms vs run
χ2 / ndf 3433 / 91
p0 1795 ± 1.324
2400
2200
2000
1800
1600


asym_sam_48_dd_mean vs run
χ^2 / ndf 66.78 / 91
p0 2235 ± 1877
pull
Entries 92
Mean −108.3
Std Dev 166.7
pull1D
Entries 92
Mean 0.009363
Std Dev 0.8519

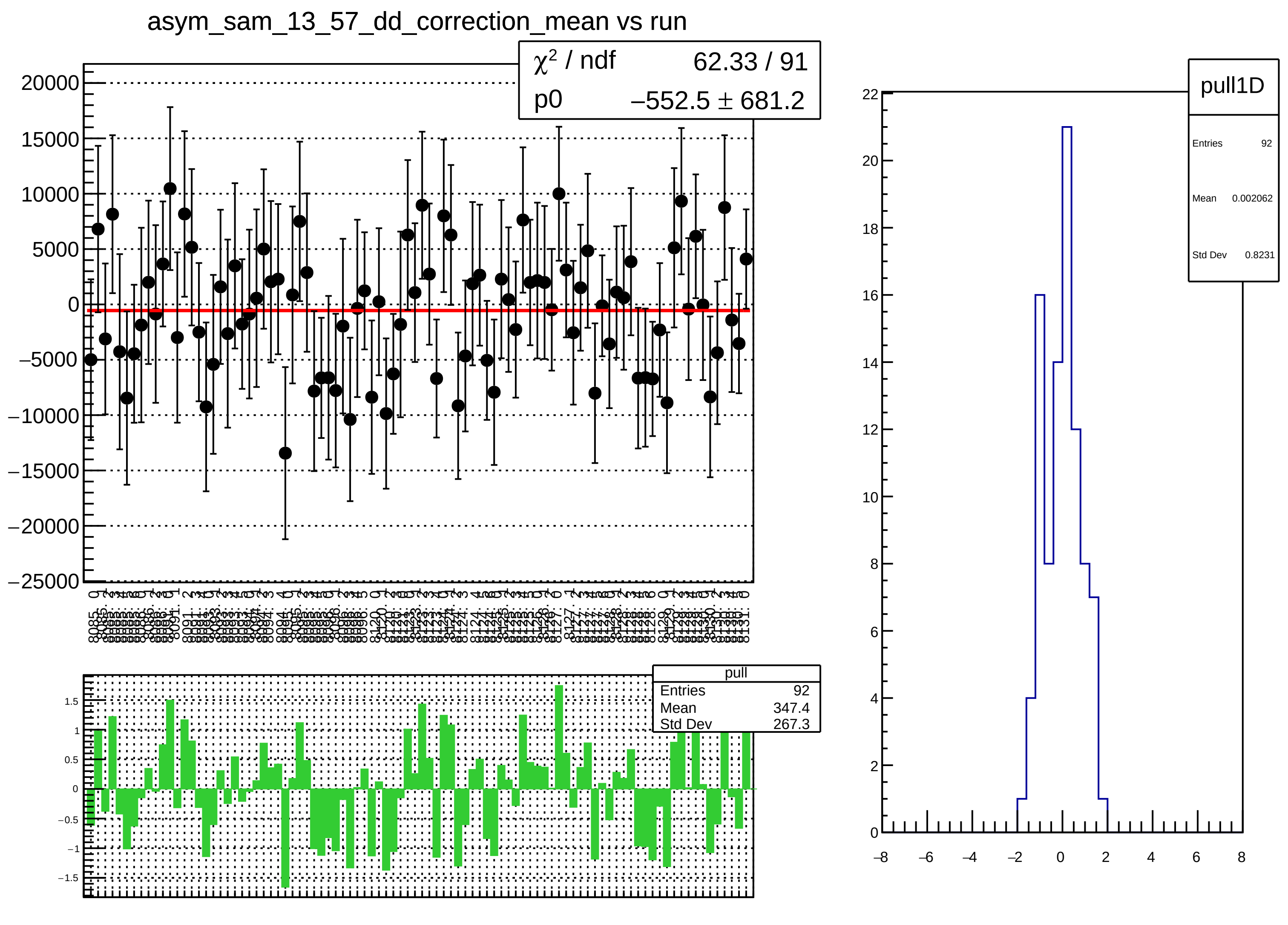


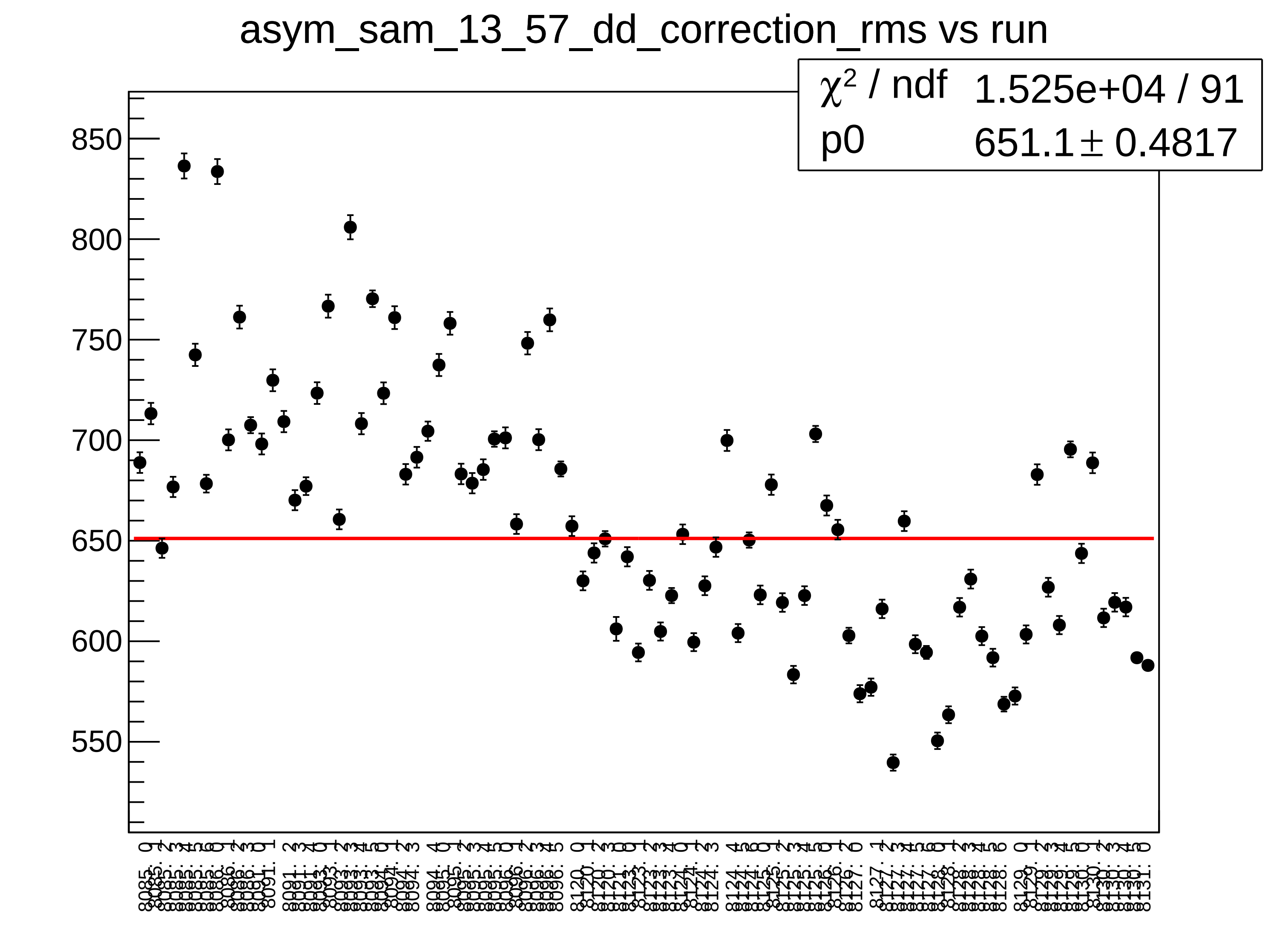
asym_sam_48_dd_rms vs run
χ^2 / ndf 3416 / 91
p0 1800 ± 1.328


reg_asym_sam_13_57_dd_mean vs run
χ^2 / ndf 74.83 / 91
p0 −124.2 ± 70.49
pull
Entries 92
Mean −8.097
Std Dev 94.1
pull1D
Entries 92
Mean 0.0148
Std Dev 0.9018

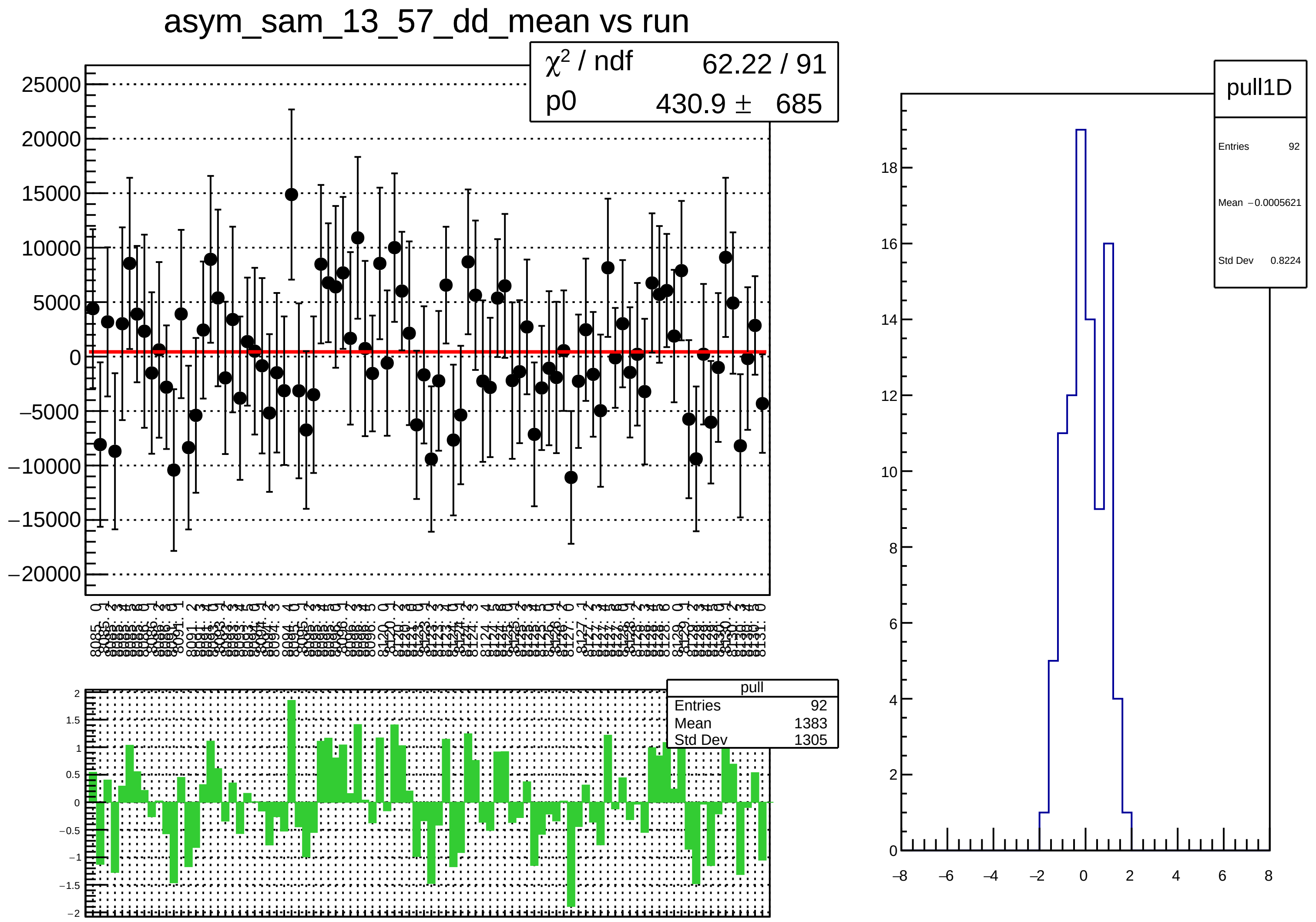


reg_asym_sam_13_57_dd_rms vs run
χ^2 / ndf 1.311e+04 / 91
p0 67.42 ± 0.04984

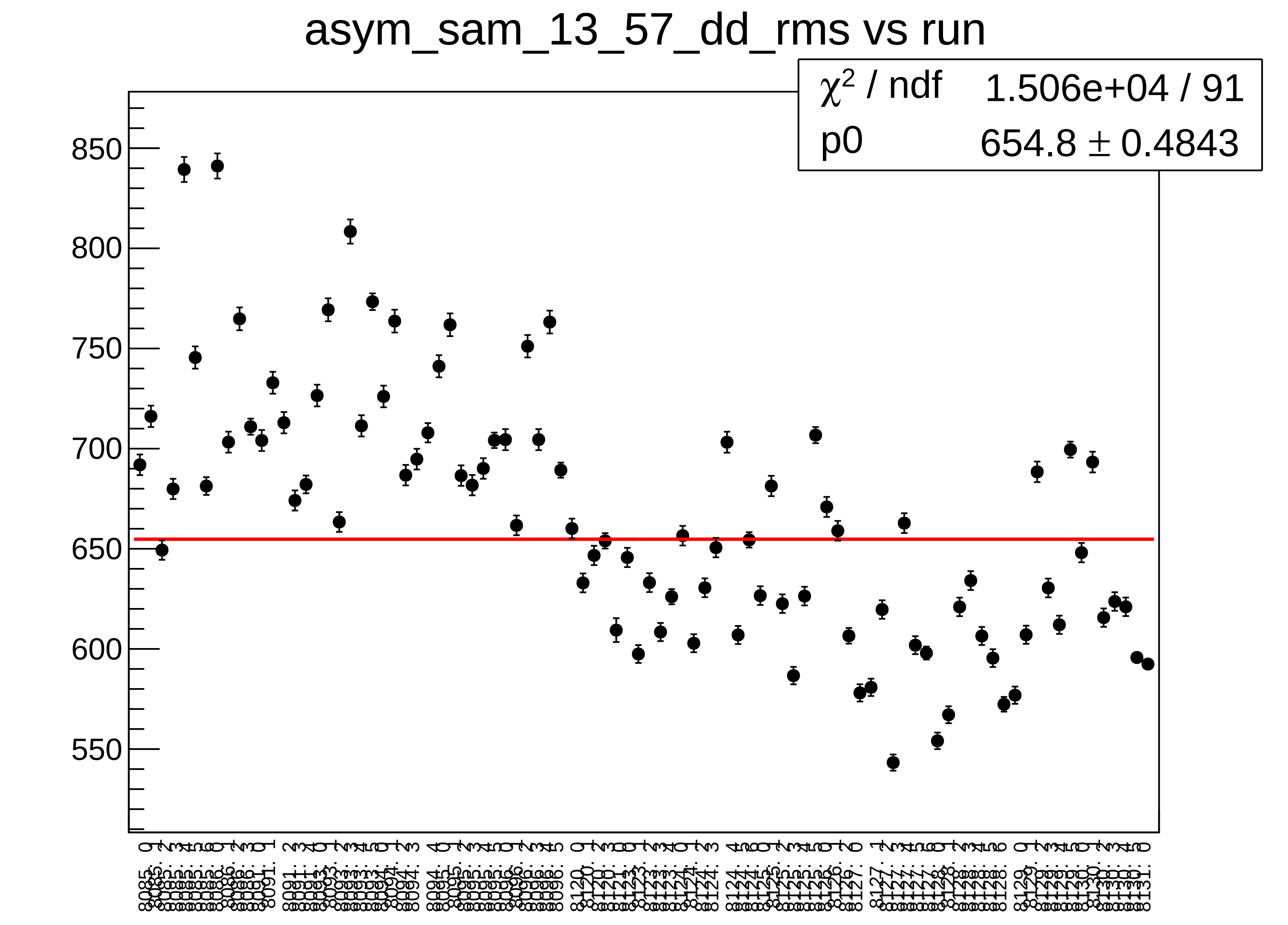

asym_sam_13_57_dd_correction_mean vs run
χ² / ndf 62.33 / 91
p0 −552.5 ± 681.2
pull
Entries 92
Mean 347.4
Std Dev 267.3
pull1D
Entries 92
Mean 0.002062
Std Dev 0.8231



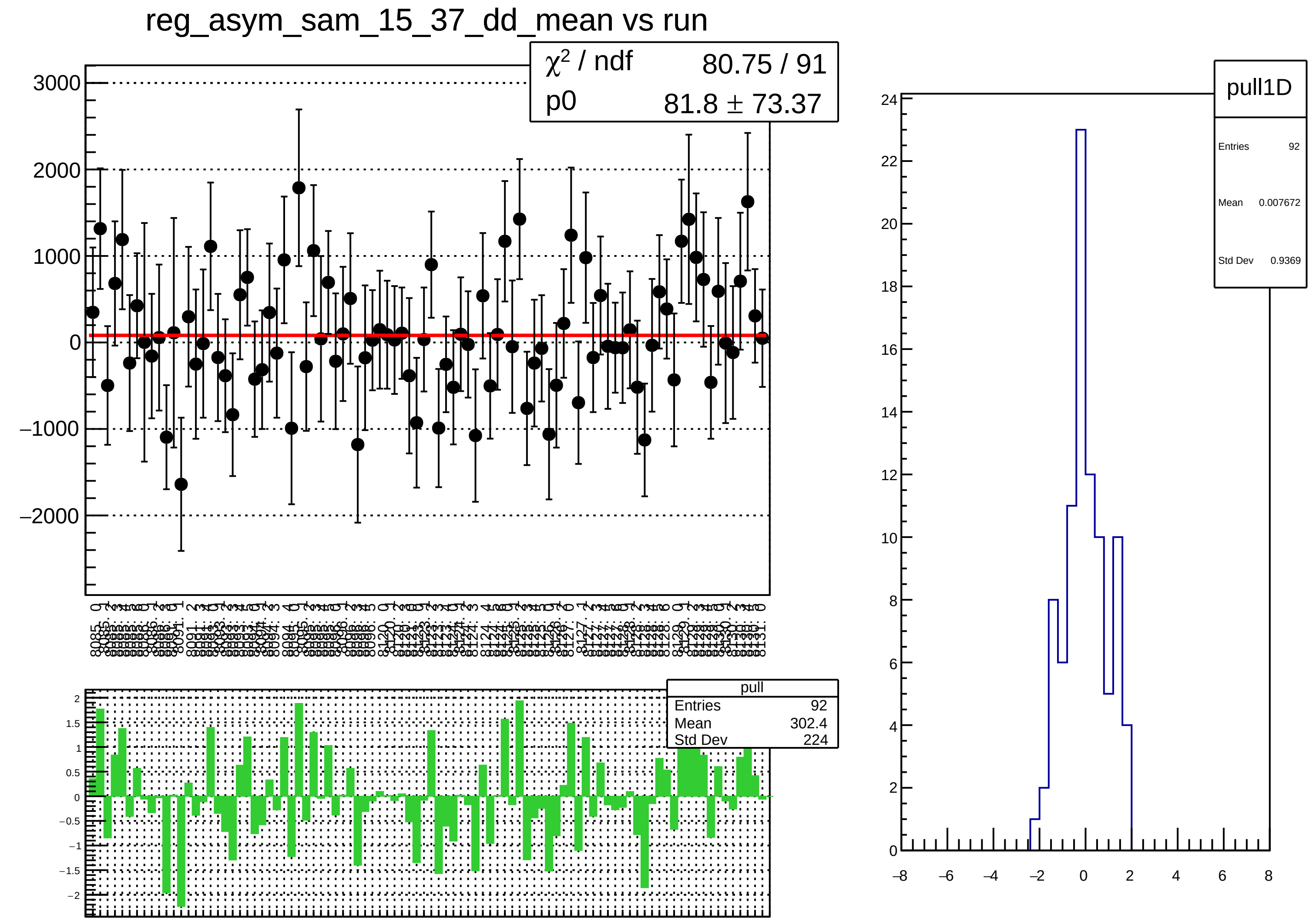
asym_sam_13_57_dd_correction_rms vs run
χ^2 / ndf 1.525e+04 / 91
p0 651.1 ± 0.4817
850
800
750
700
650
600
550



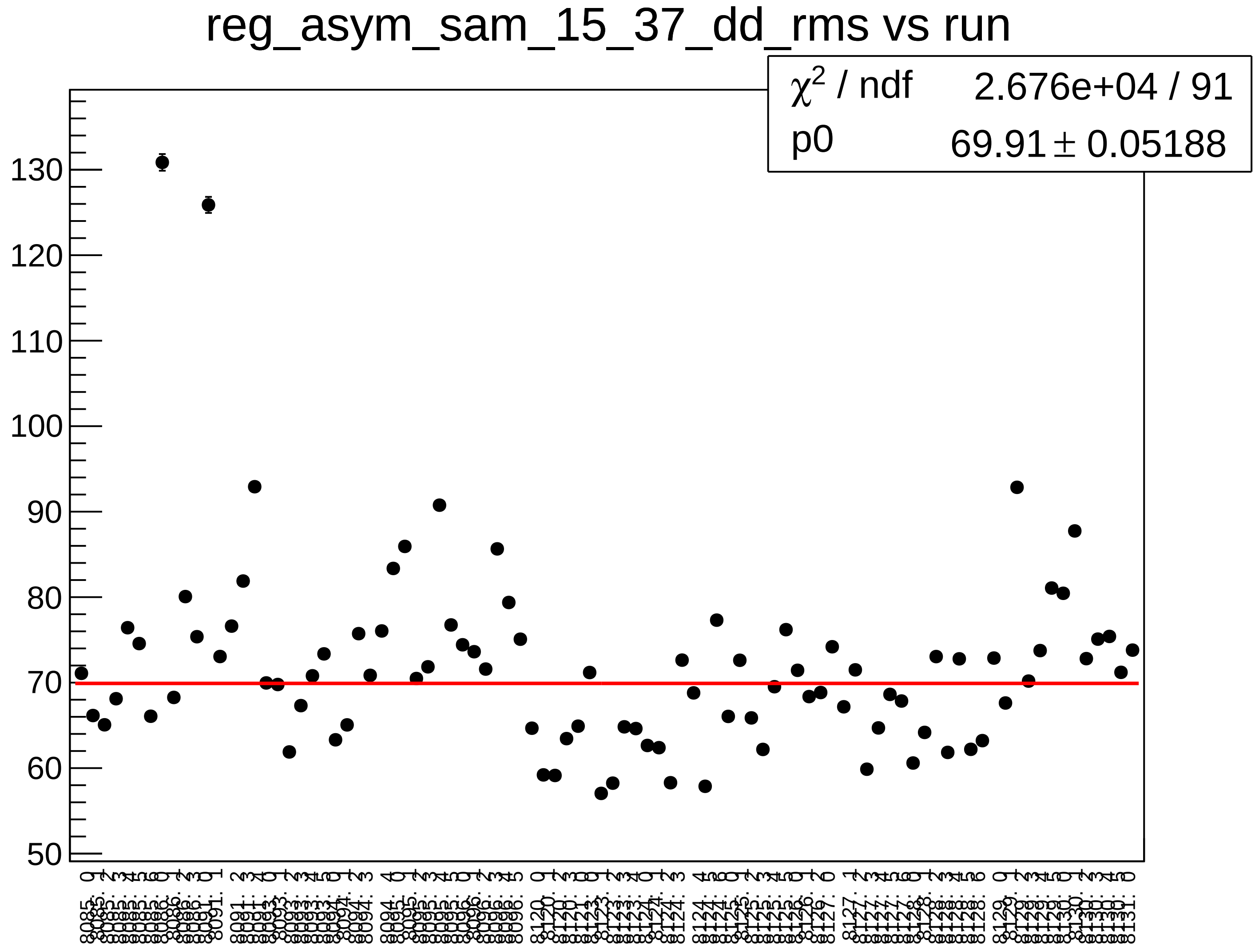
asym_sam_13_57_dd_mean vs run
χ^2 / ndf 62.22 / 91
p0 430.9 ± 685
pull
Entries 92
Mean 1383
Std Dev 1305
pull1D
Entries 92
Mean −0.0005621
Std Dev 0.8224



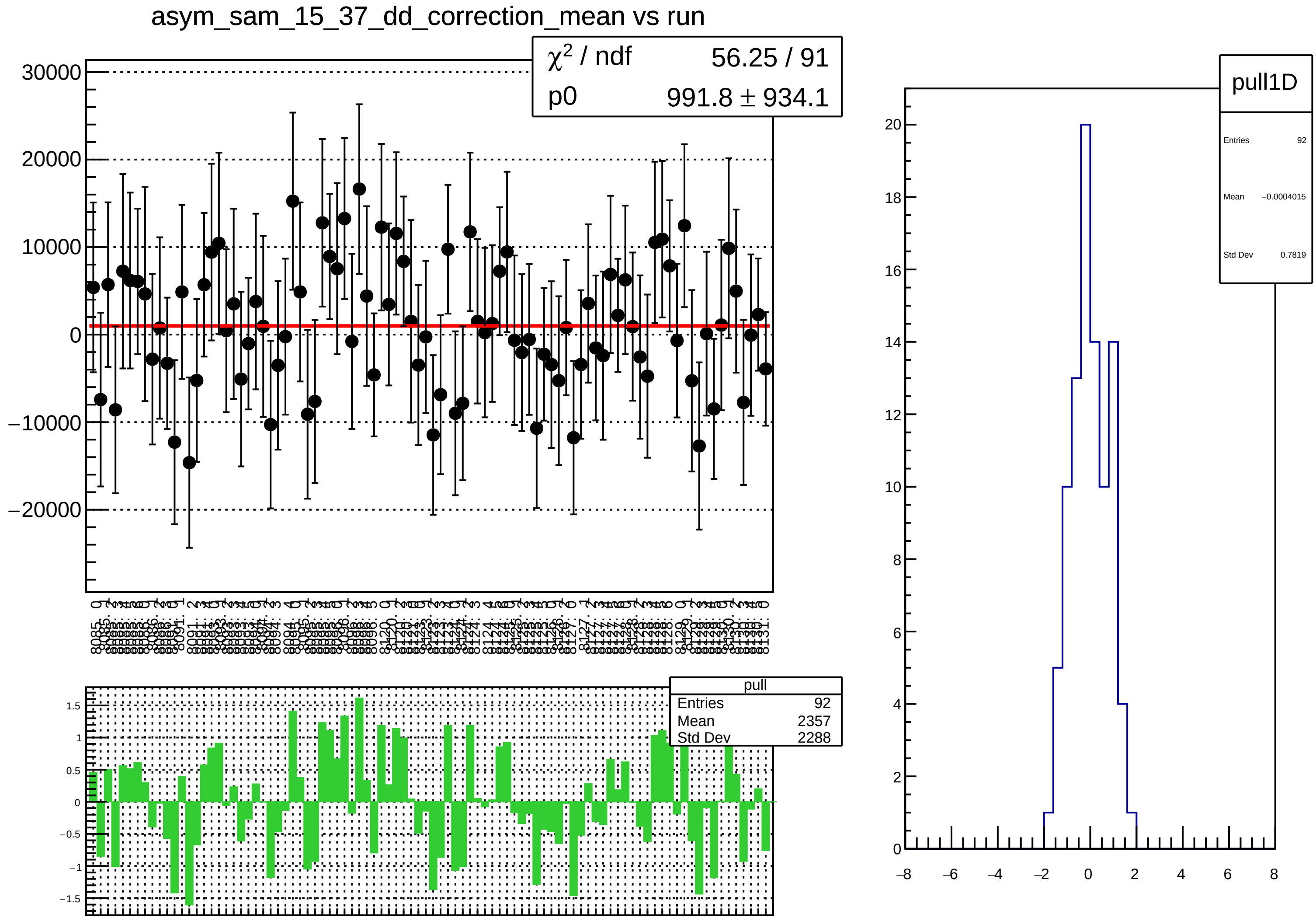
asym_sam_13_57_dd_rms vs run
χ2 / ndf 1.506e+04 / 91
p0 654.8 ± 0.4843
850
800
750
700
650
600
550

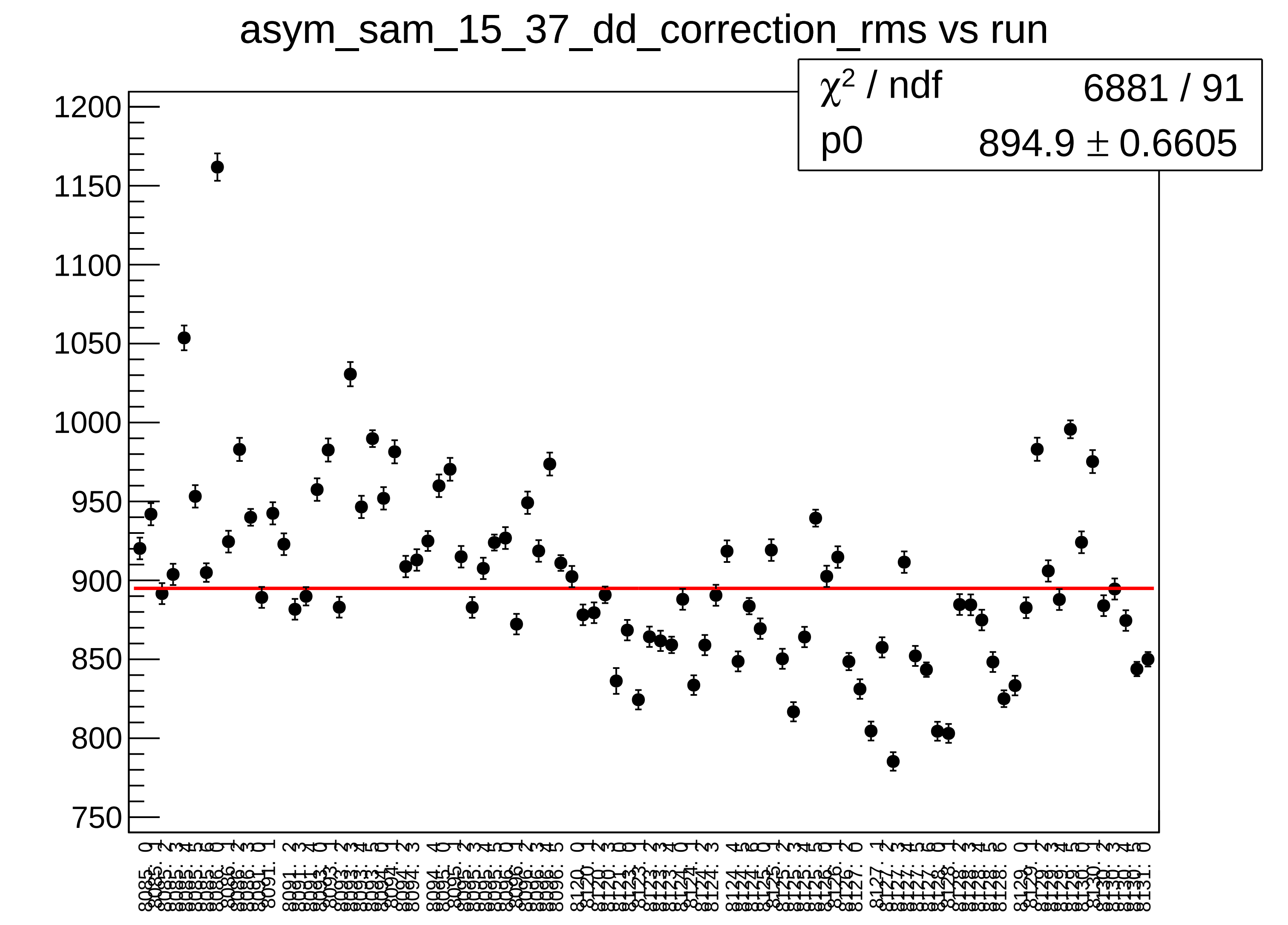


reg_asym_sam_15_37_dd_mean vs run
χ2 / ndf 80.75 / 91
p0 81.8 ± 73.37
pull
Entries 92
Mean 302.4
Std Dev 224
pull1D
Entries 92
Mean 0.007672
Std Dev 0.9369

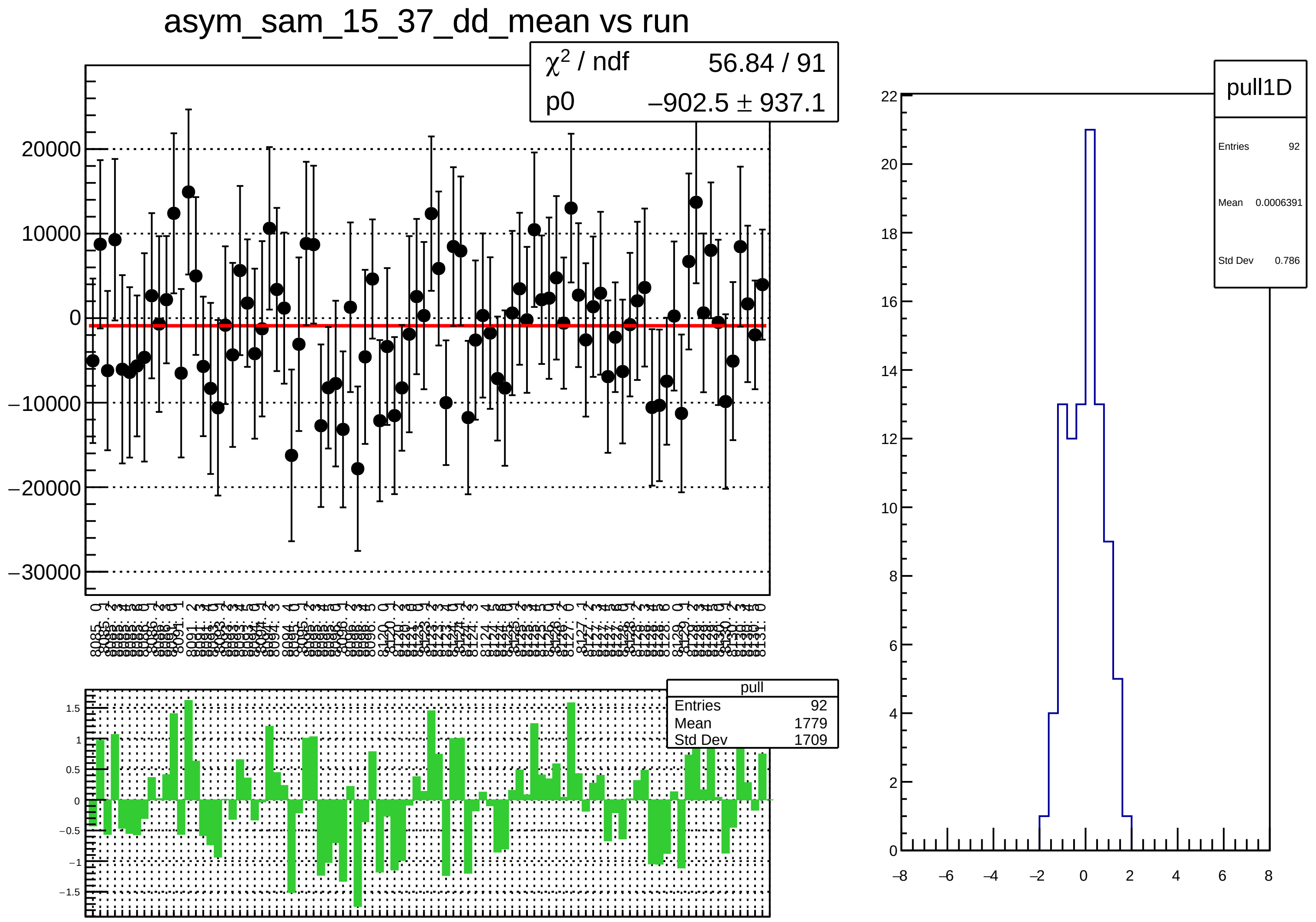


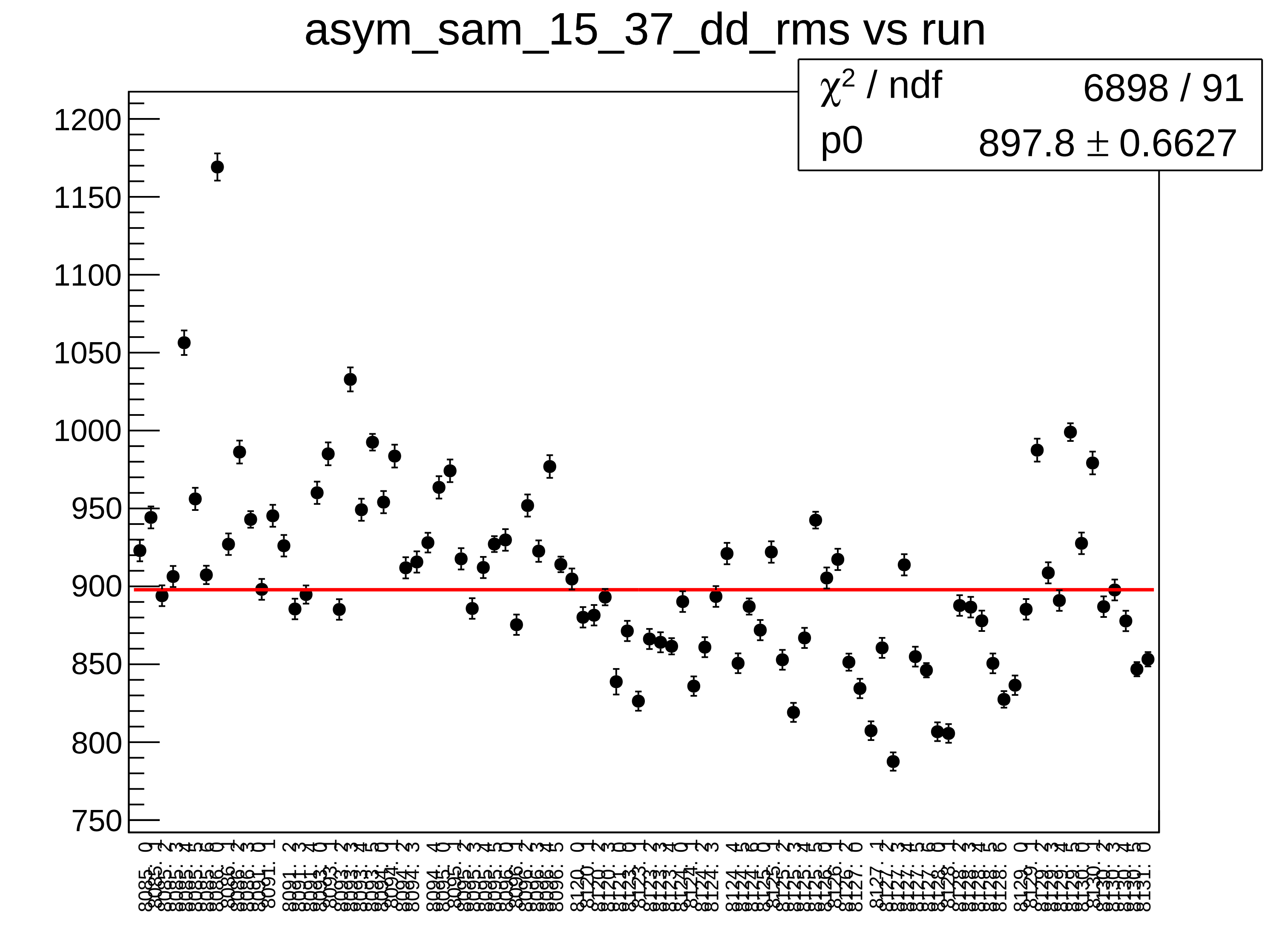
reg_asym_sam_15_37_dd_rms vs run
χ^2 / ndf 2.676e+04 / 91
p0 69.91 ± 0.05188
130
120
110
100
90
80
70
60
50


asym_sam_15_37_dd_correction_mean vs run
χ2 / ndf 56.25 / 91
p0 991.8 ± 934.1
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean 2357
Std Dev 2288
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.0004015
Std Dev 0.7819
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



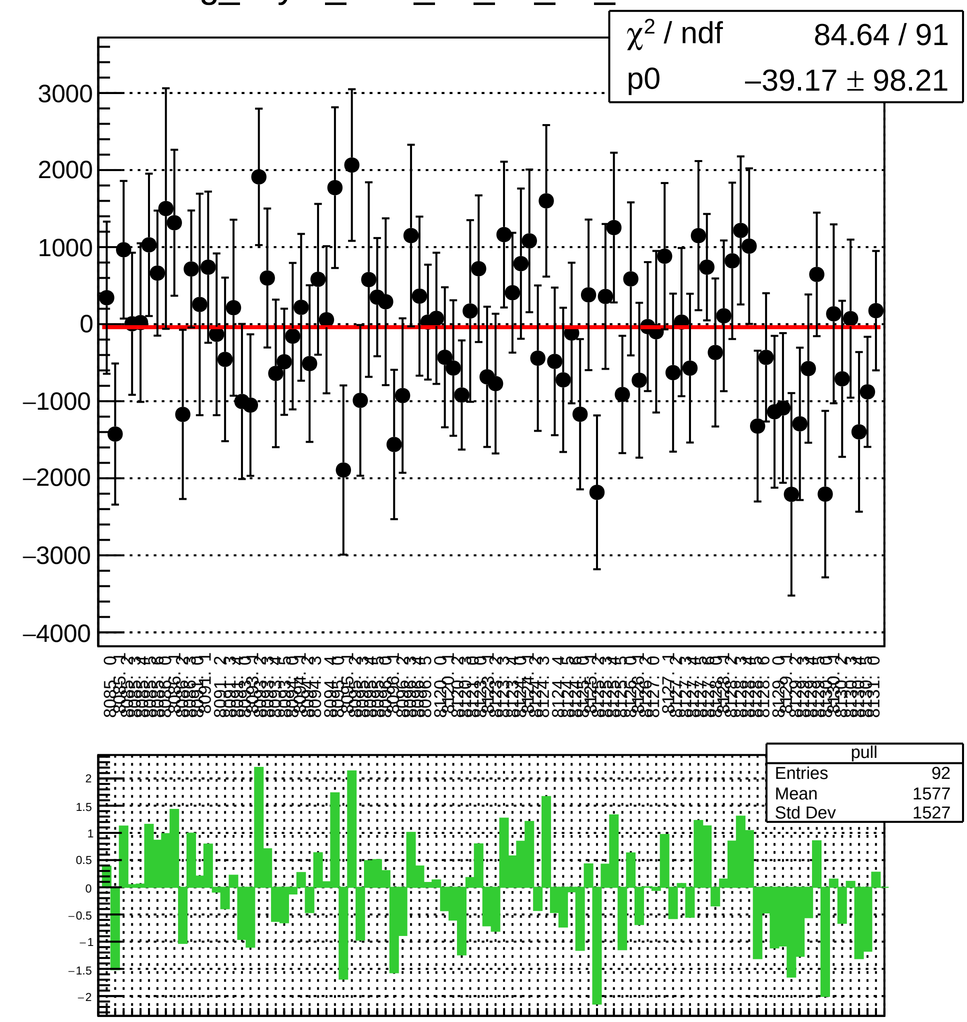
asym_sam_15_37_dd_correction_rms vs run
χ^2 / ndf 6881 / 91
p0 894.9 ± 0.6605
1200
1150
1100
1050
1000
950
900
850
800
750

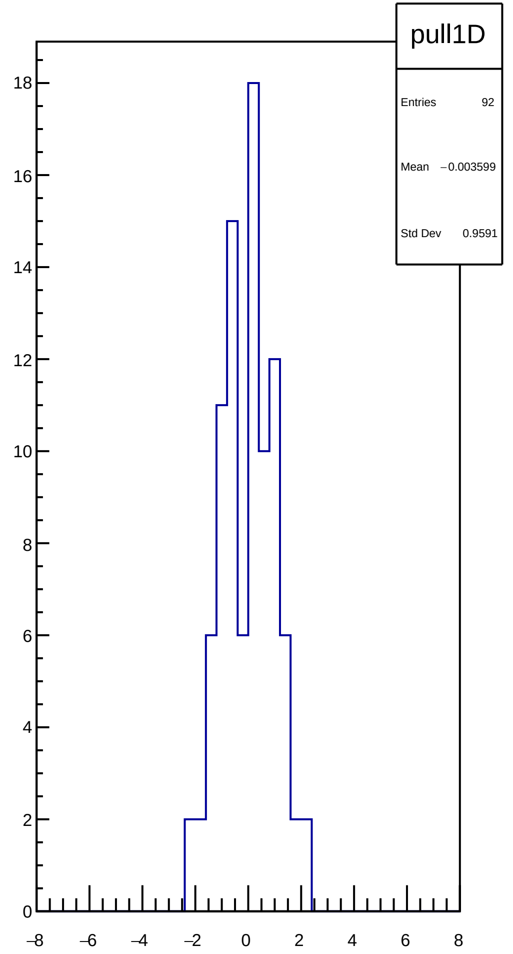

asym_sam_15_37_dd_mean vs run
χ2 / ndf 56.84 / 91
p0 −902.5 ± 937.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 1779
Std Dev 1709
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.0006391
Std Dev 0.786
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

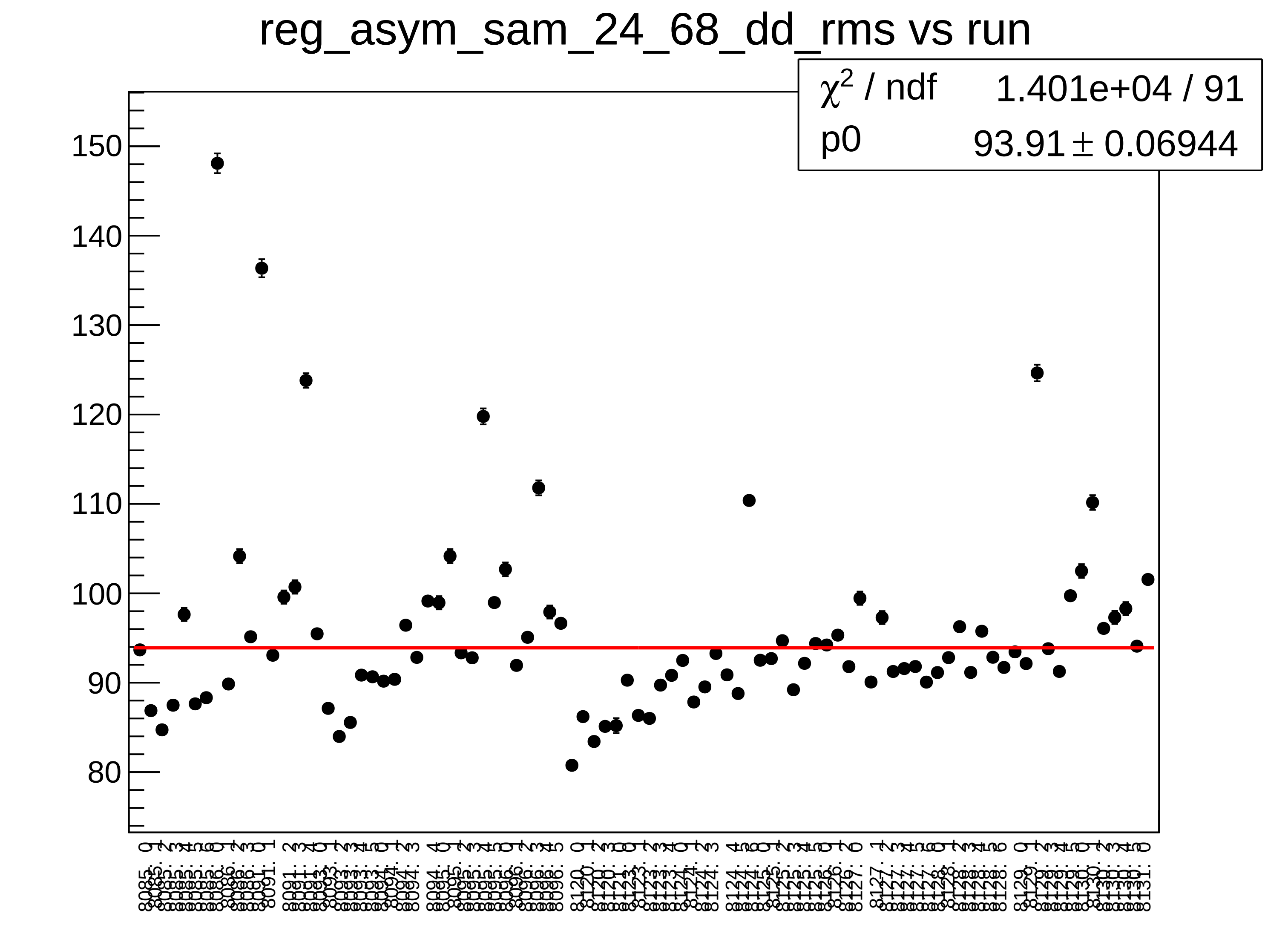


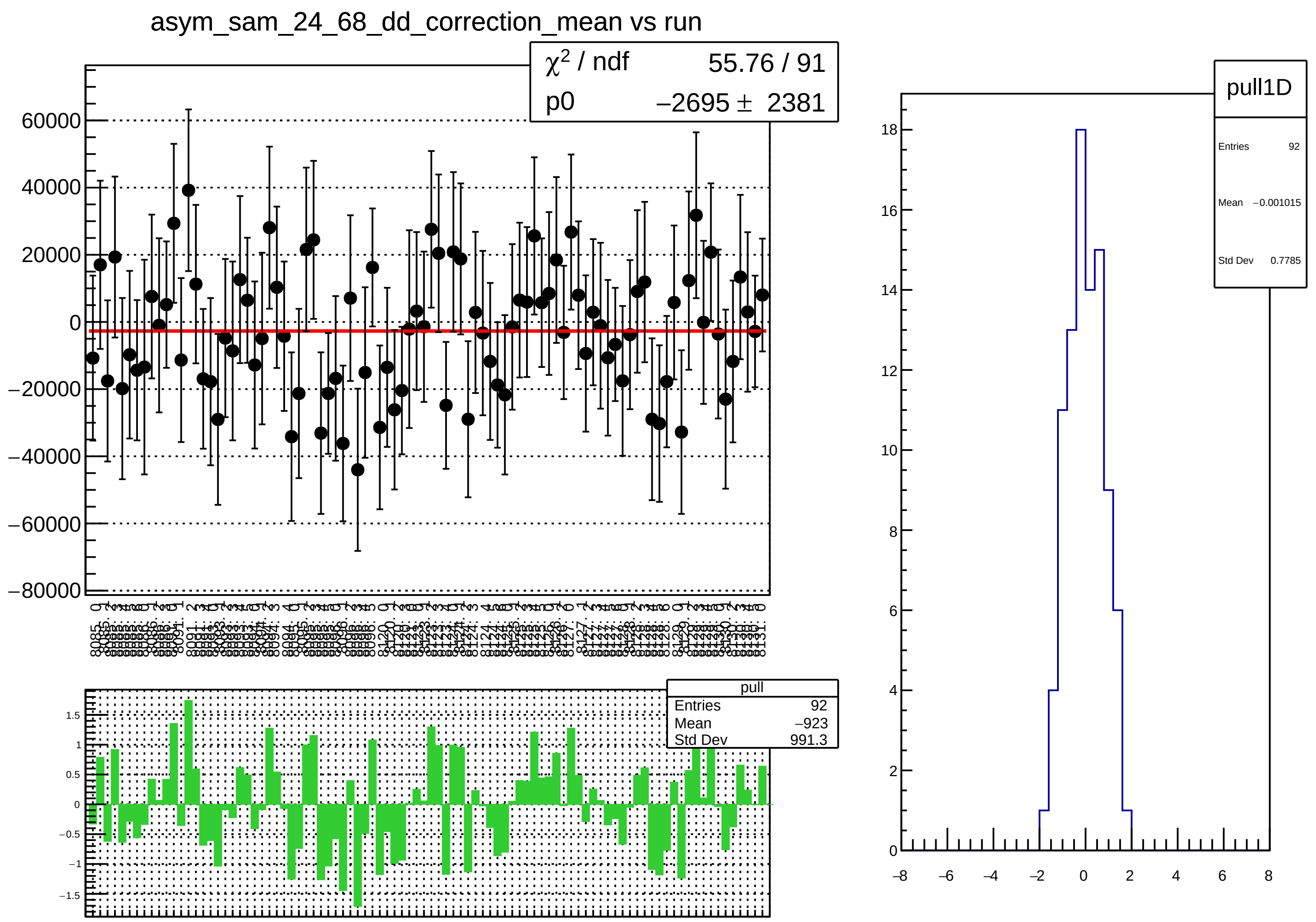
asym_sam_15_37_dd_rms vs run
χ^2 / ndf 6898 / 91
p0 897.8 ± 0.6627

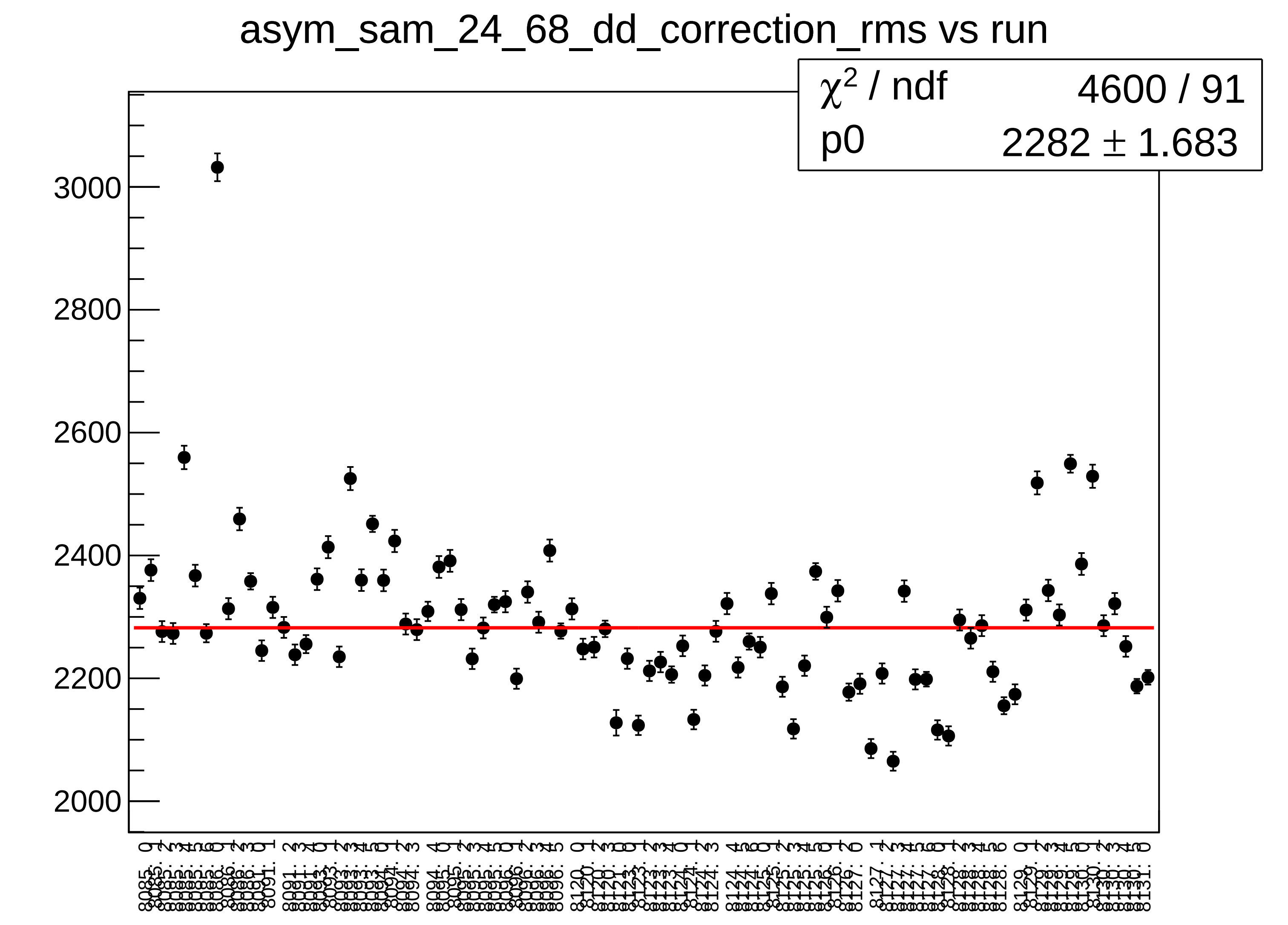
reg_asym_sam_24_68_dd_mean vs run



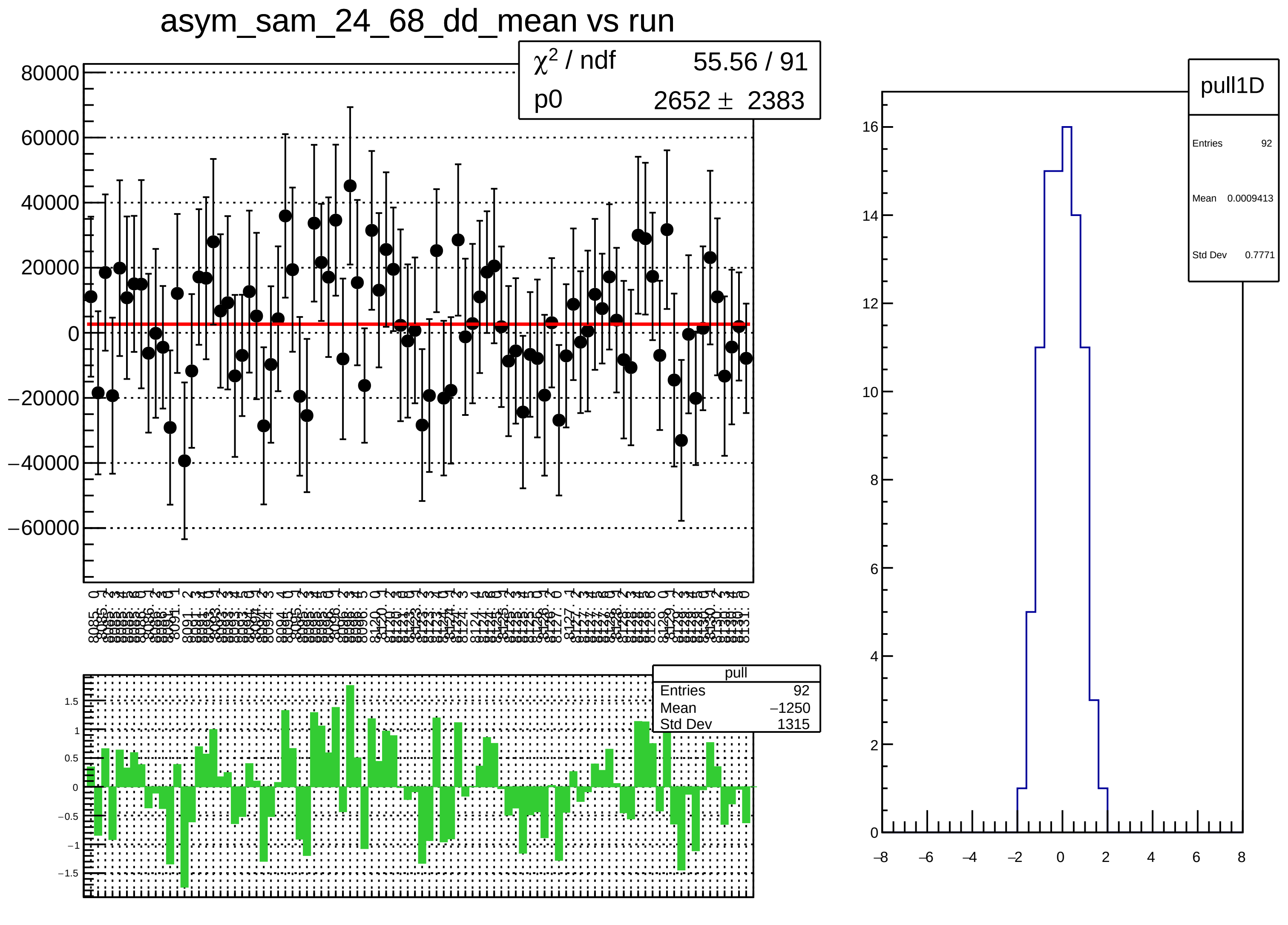


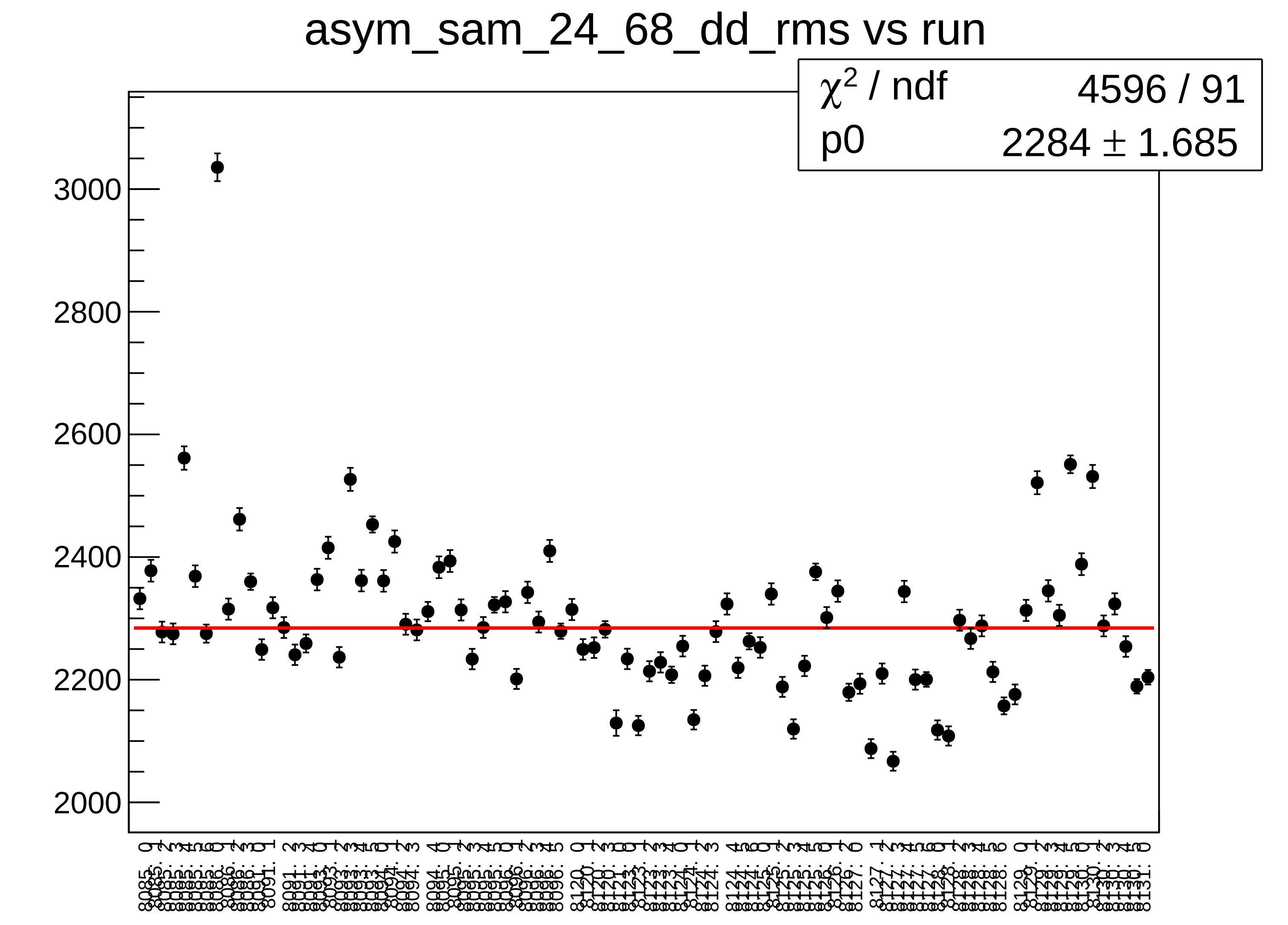

reg_asym_sam_24_68_dd_rms vs run
χ2 / ndf 1.401e+04 / 91
p0 93.91 ± 0.06944
150
140
130
120
110
100
90
80


asym_sam_24_68_dd_correction_mean vs run
χ2 / ndf 55.76 / 91
p0 −2695 ± 2381
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 92
Mean −923
Std Dev 991.3
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.001015
Std Dev 0.7785
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

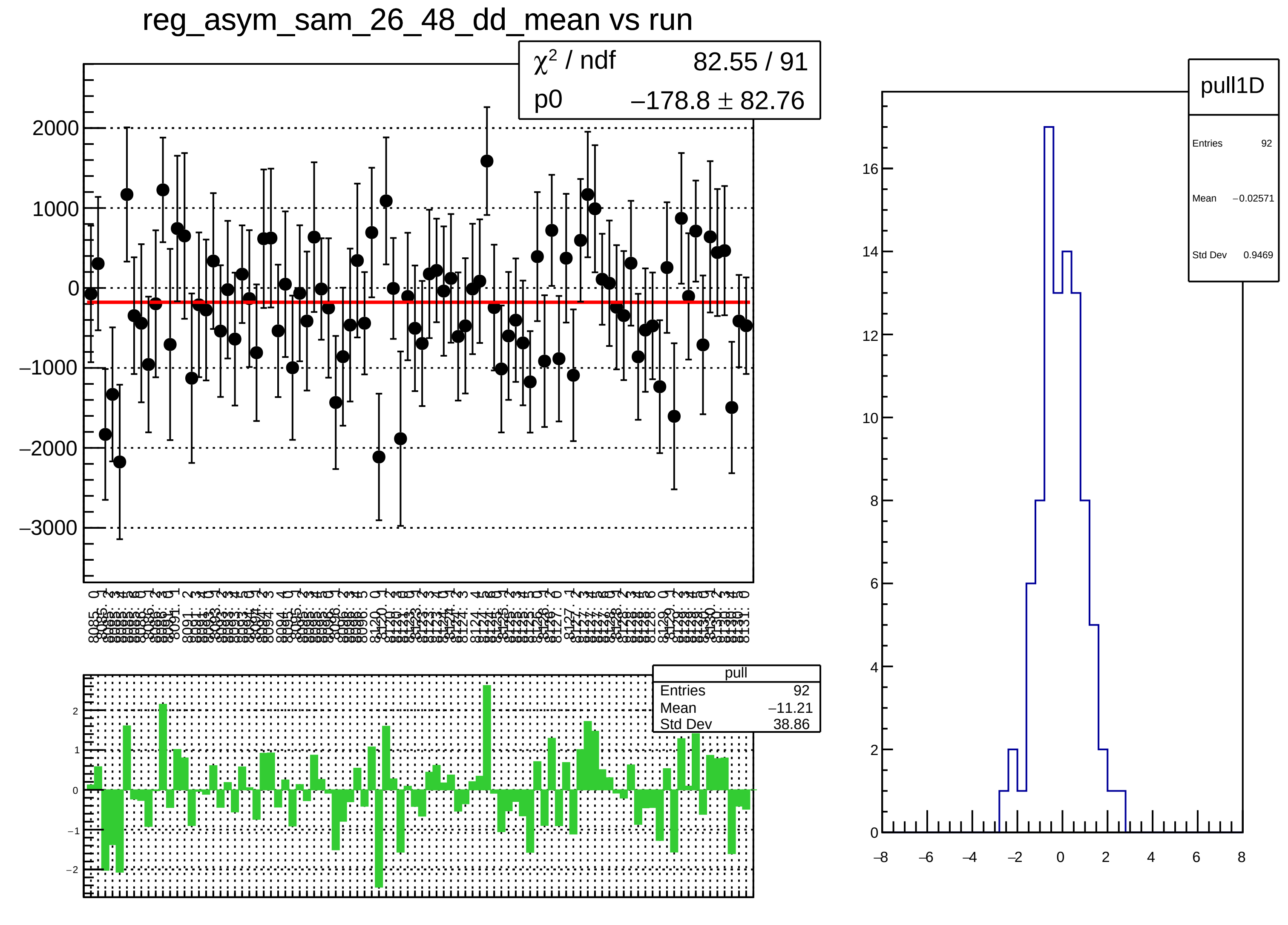


asym_sam_24_68_dd_correction_rms vs run
χ2 / ndf 4600 / 91
p0 2282 ± 1.683
3000
2800
2600
2400
2200
2000

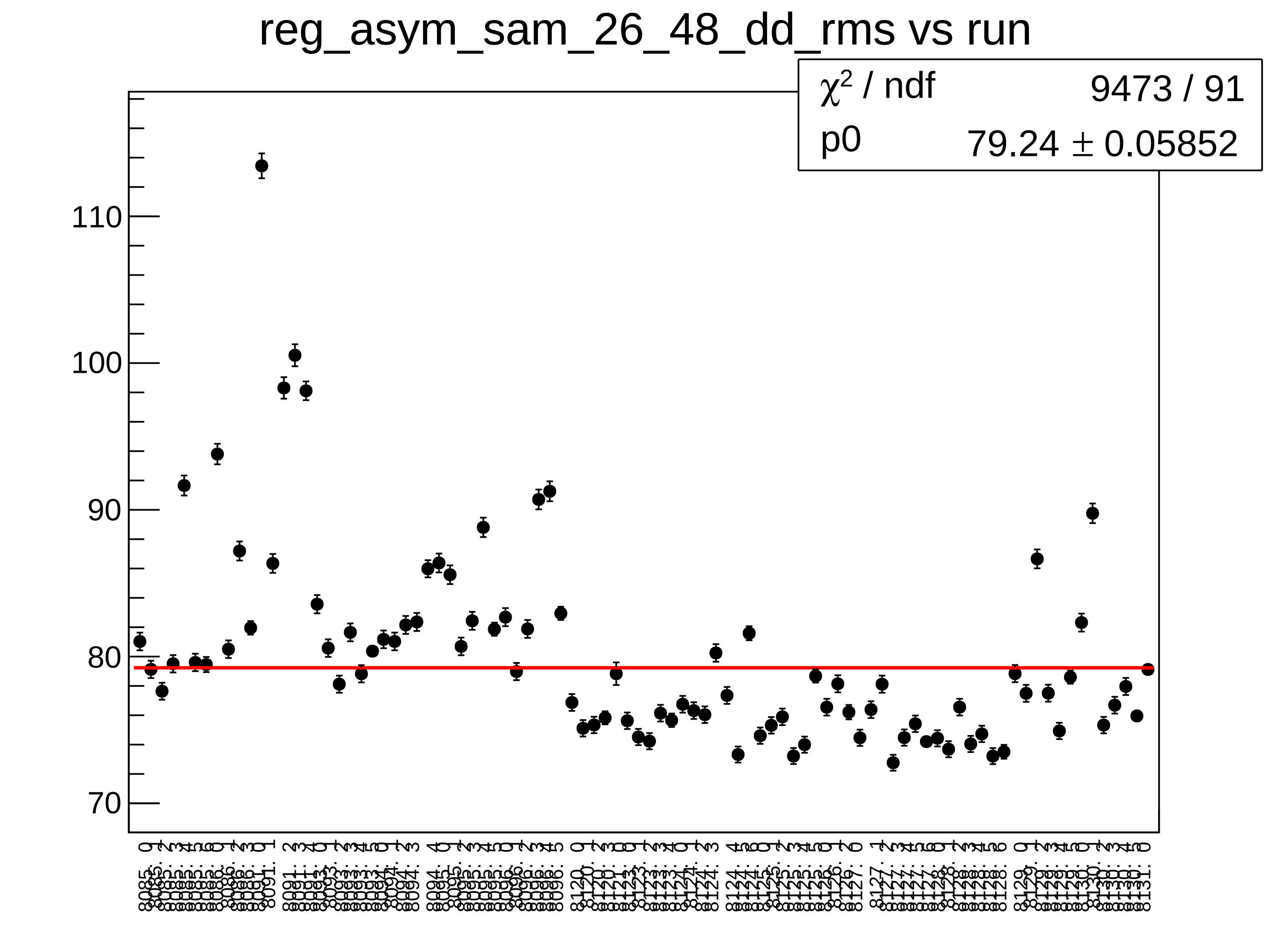

asym_sam_24_68_dd_mean vs run
χ2 / ndf 55.56 / 91
p0 2652 ± 2383
pull
Entries 92
Mean −1250
Std Dev 1315
pull1D
Entries 92
Mean 0.0009413
Std Dev 0.7771



asym_sam_24_68_dd_rms vs run
χ2 / ndf 4596 / 91
p0 2284 ± 1.685
3000
2800
2600
2400
2200
2000

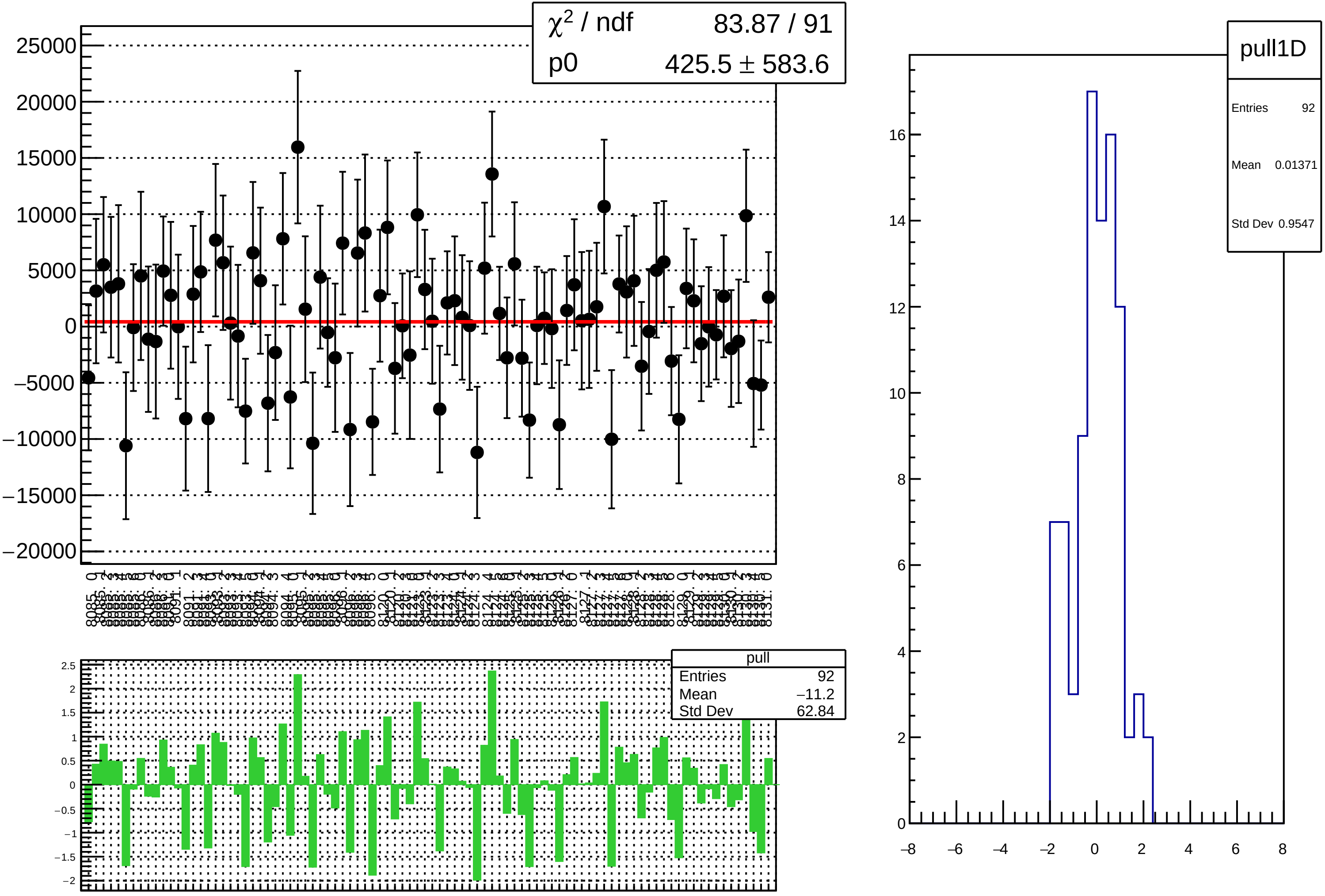


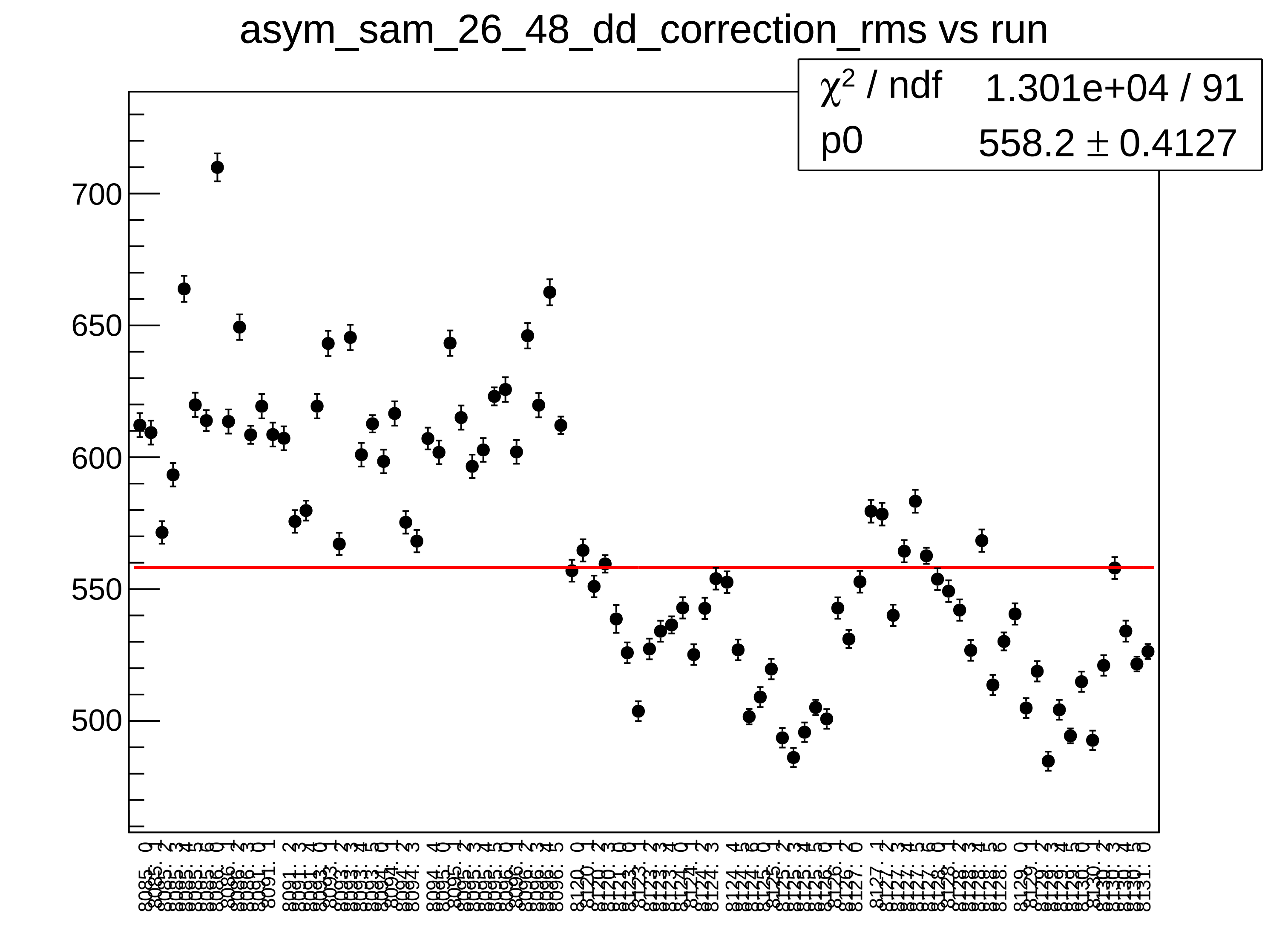
reg_asym_sam_26_48_dd_mean vs run
χ^2 / ndf 82.55 / 91
p0 −178.8 ± 82.76
pull
Entries 92
Mean −11.21
Std Dev 38.86
pull1D
Entries 92
Mean −0.02571
Std Dev 0.9469

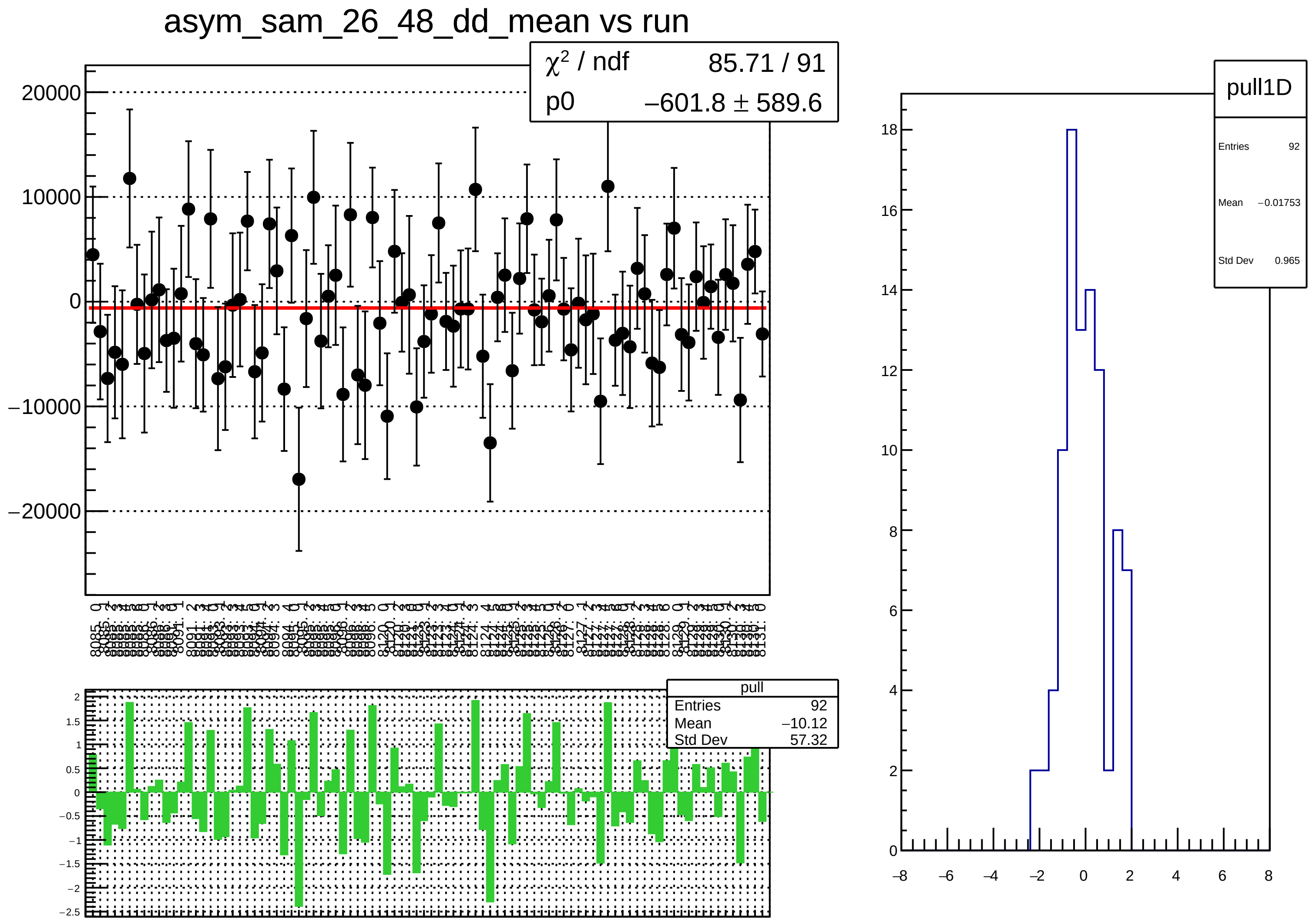


reg_asym_sam_26_48_dd_rms vs run
χ^2 / ndf 9473 / 91
p0 79.24 ± 0.05852
110
100
90
80
70

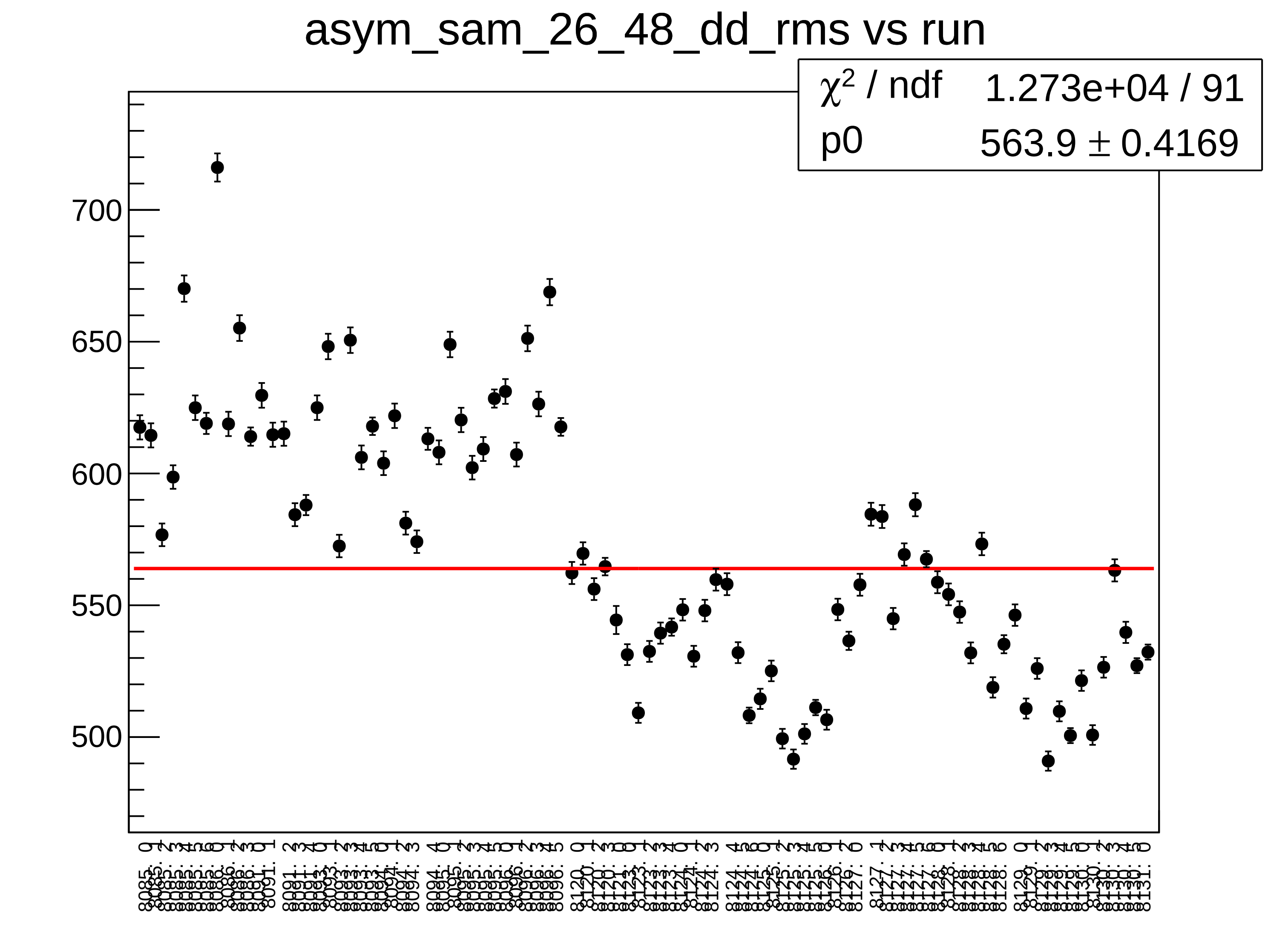
asym_sam_26_48_dd_correction_mean vs run

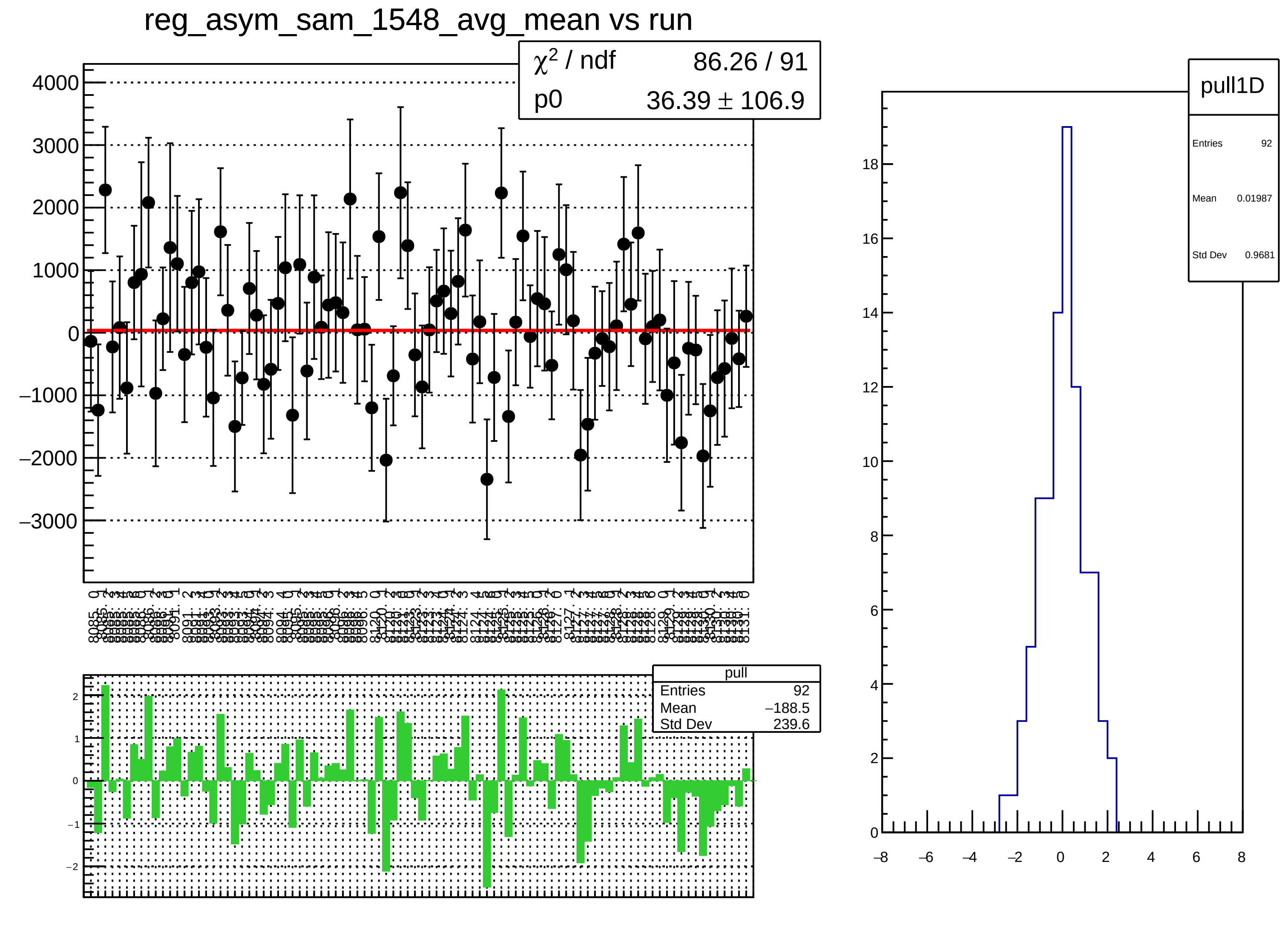



asym_sam_26_48_dd_correction_rms vs run
χ2 / ndf 1.301e+04 / 91
p0 558.2 ± 0.4127
700
650
600
550
500

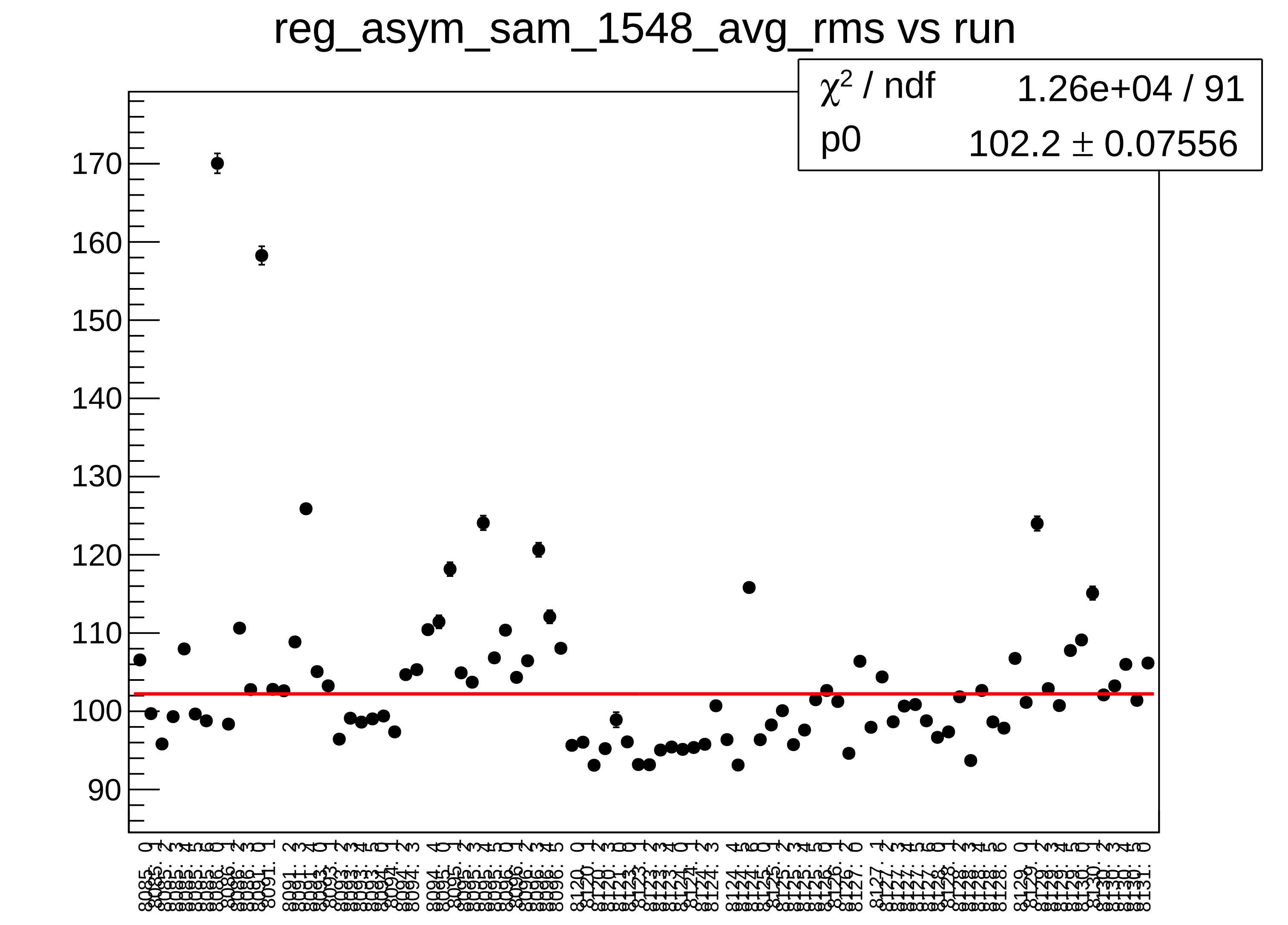


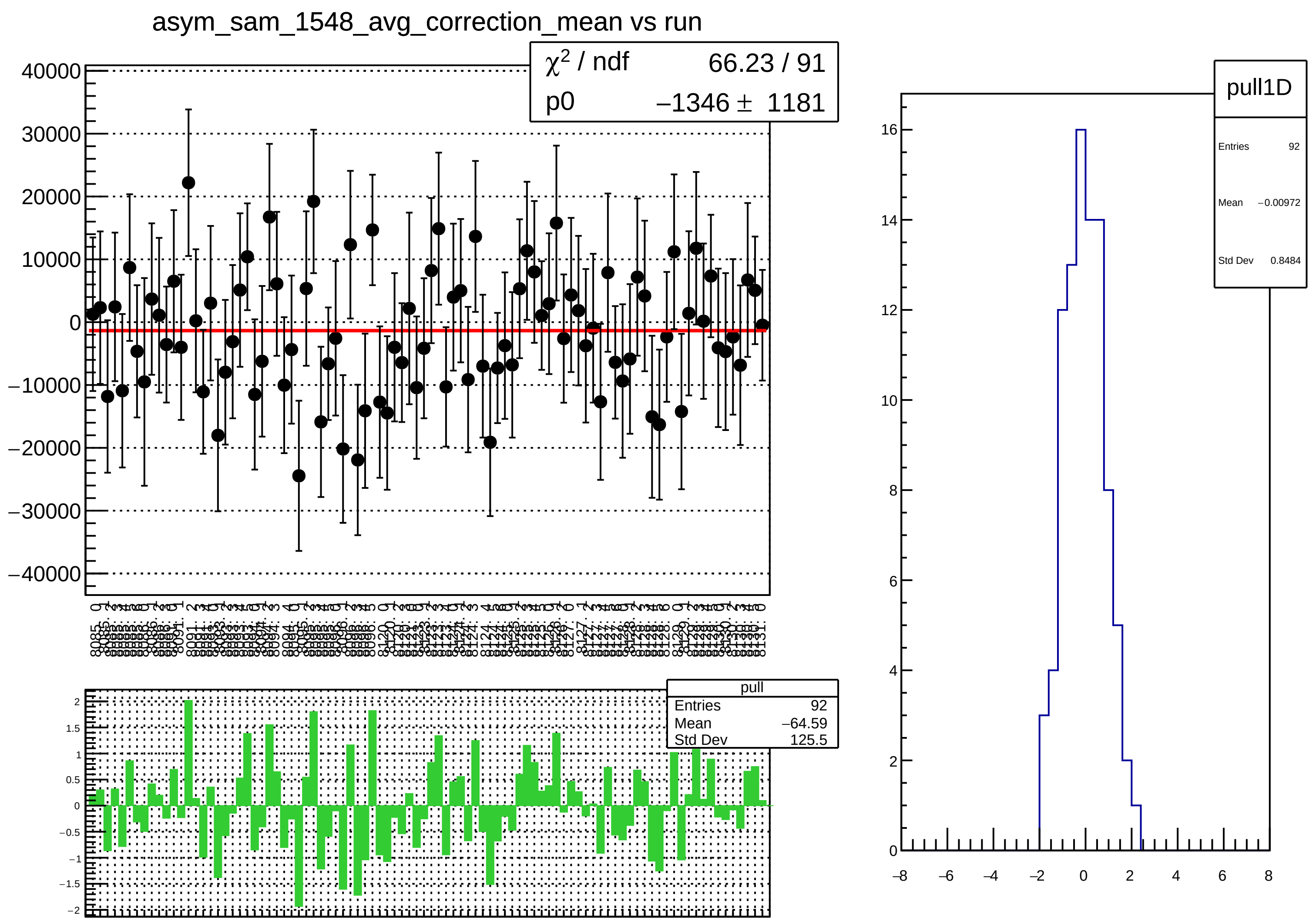
asym_sam_26_48_dd_mean vs run
χ2 / ndf 85.71 / 91
p0 −601.8 ± 589.6
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −10.12
Std Dev 57.32
pull1D
Entries 92
Mean −0.01753
Std Dev 0.965


asym_sam_26_48_dd_rms vs run
χ^2 / ndf 1.273e+04 / 91
p0 563.9 ± 0.4169
700
650
600
550
500

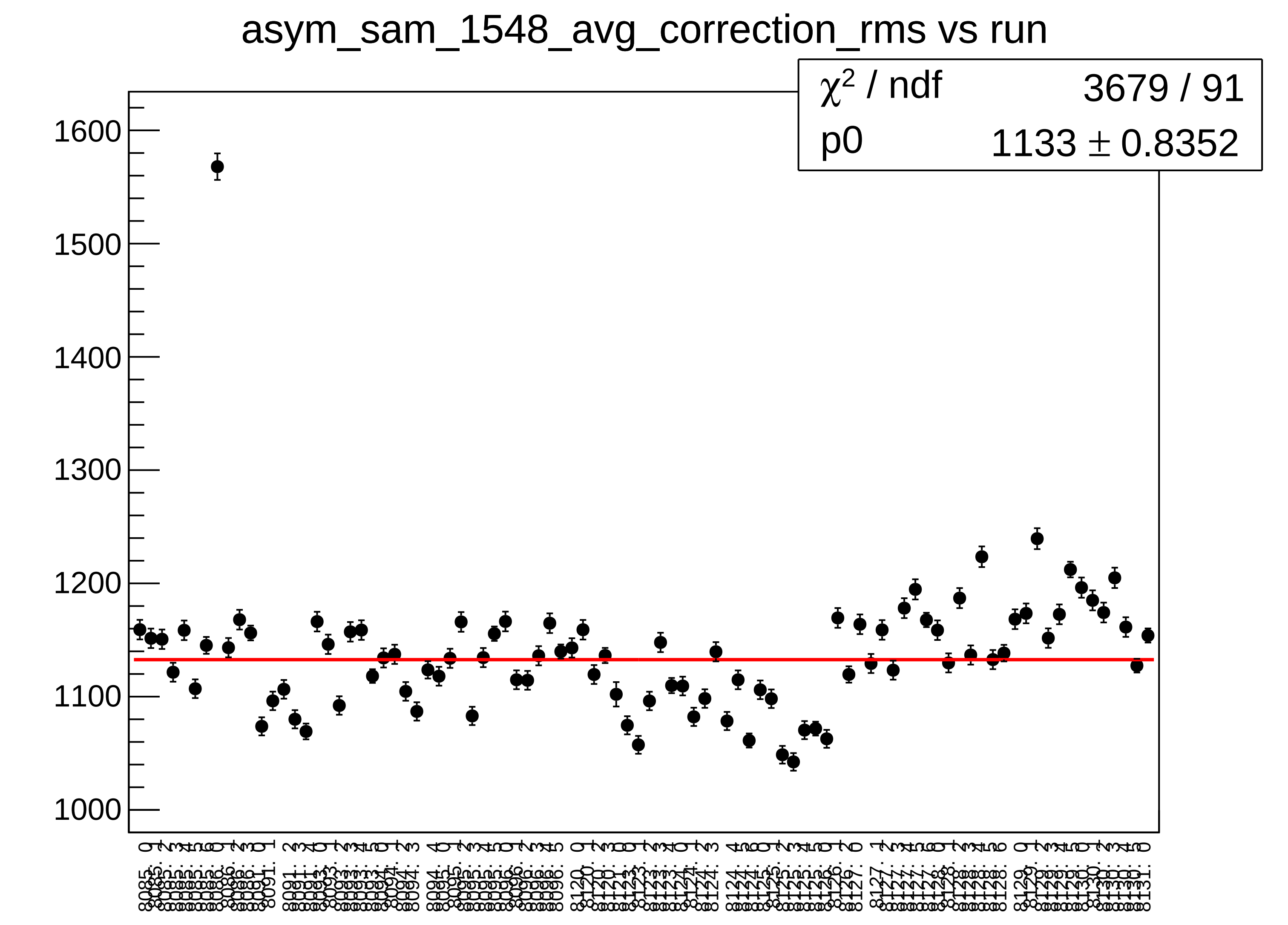


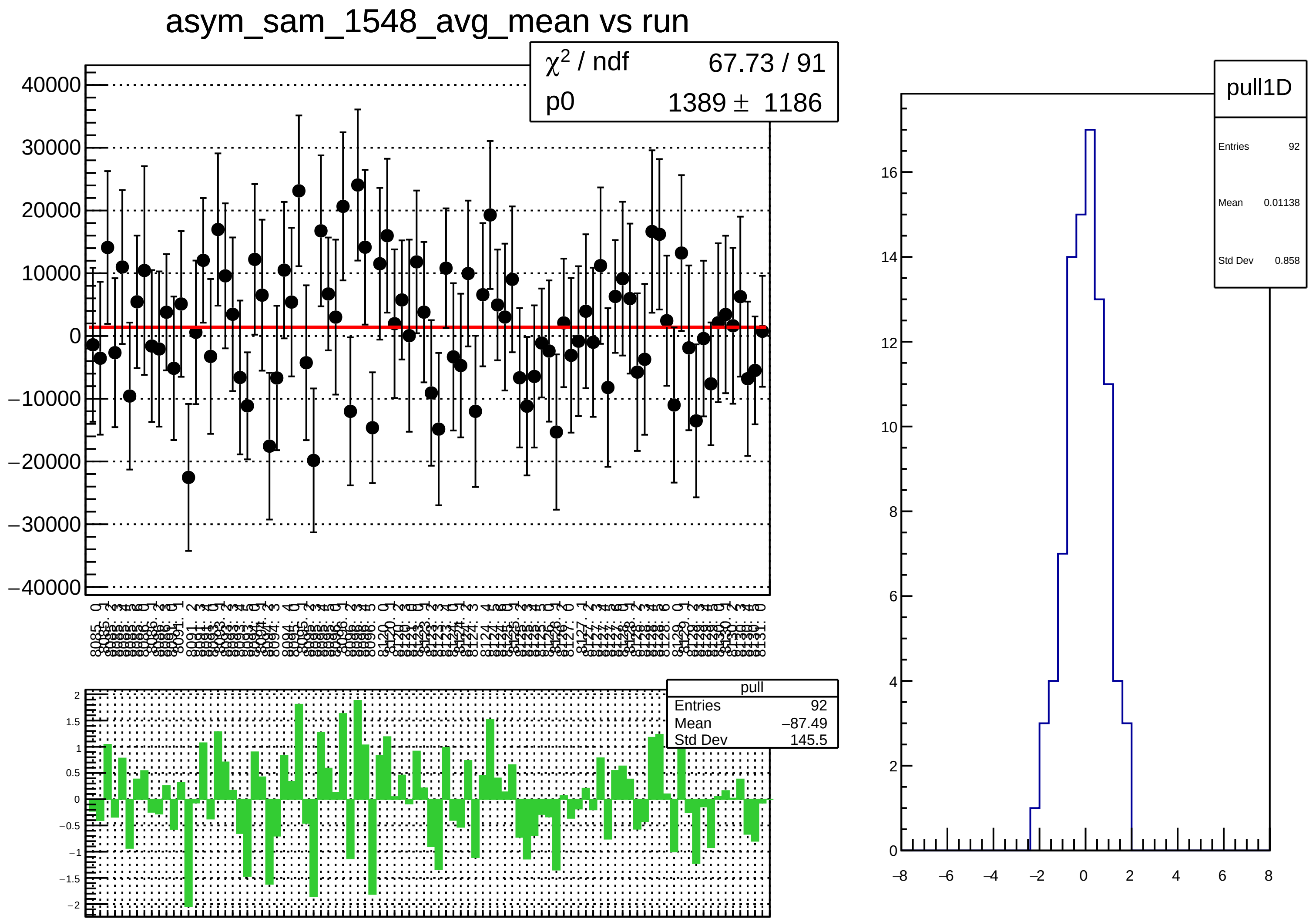
reg_asym_sam_1548_avg_mean vs run
χ^2 / ndf 86.26 / 91
p0 36.39 ± 106.9
pull
Entries 92
Mean −188.5
Std Dev 239.6
pull1D
Entries 92
Mean 0.01987
Std Dev 0.9681

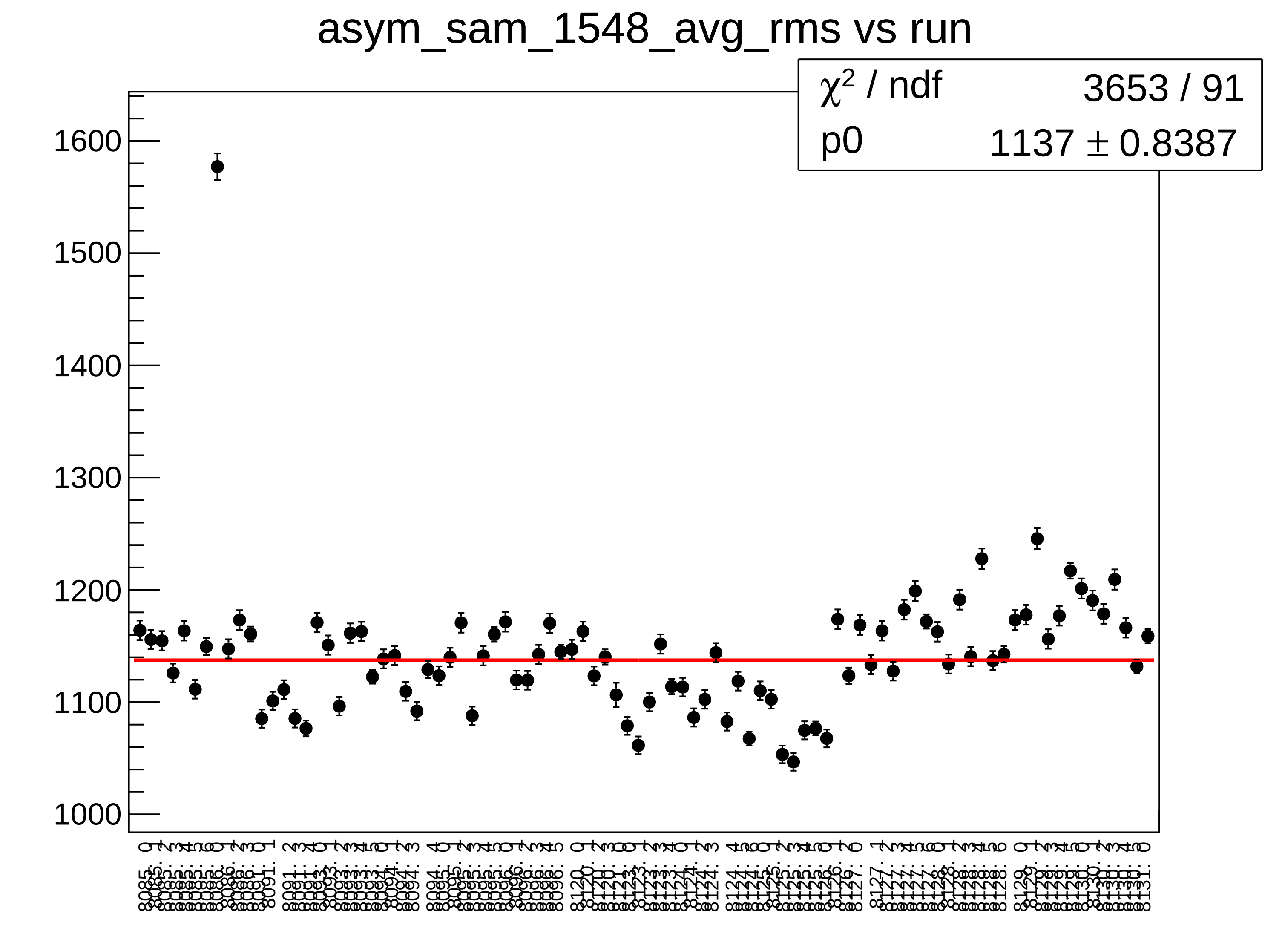

reg_asym_sam_1548_avg_rms vs run
χ^2 / ndf 1.26e+04 / 91
p0 102.2 ± 0.07556
170
160
150
140
130
120
110
100
90



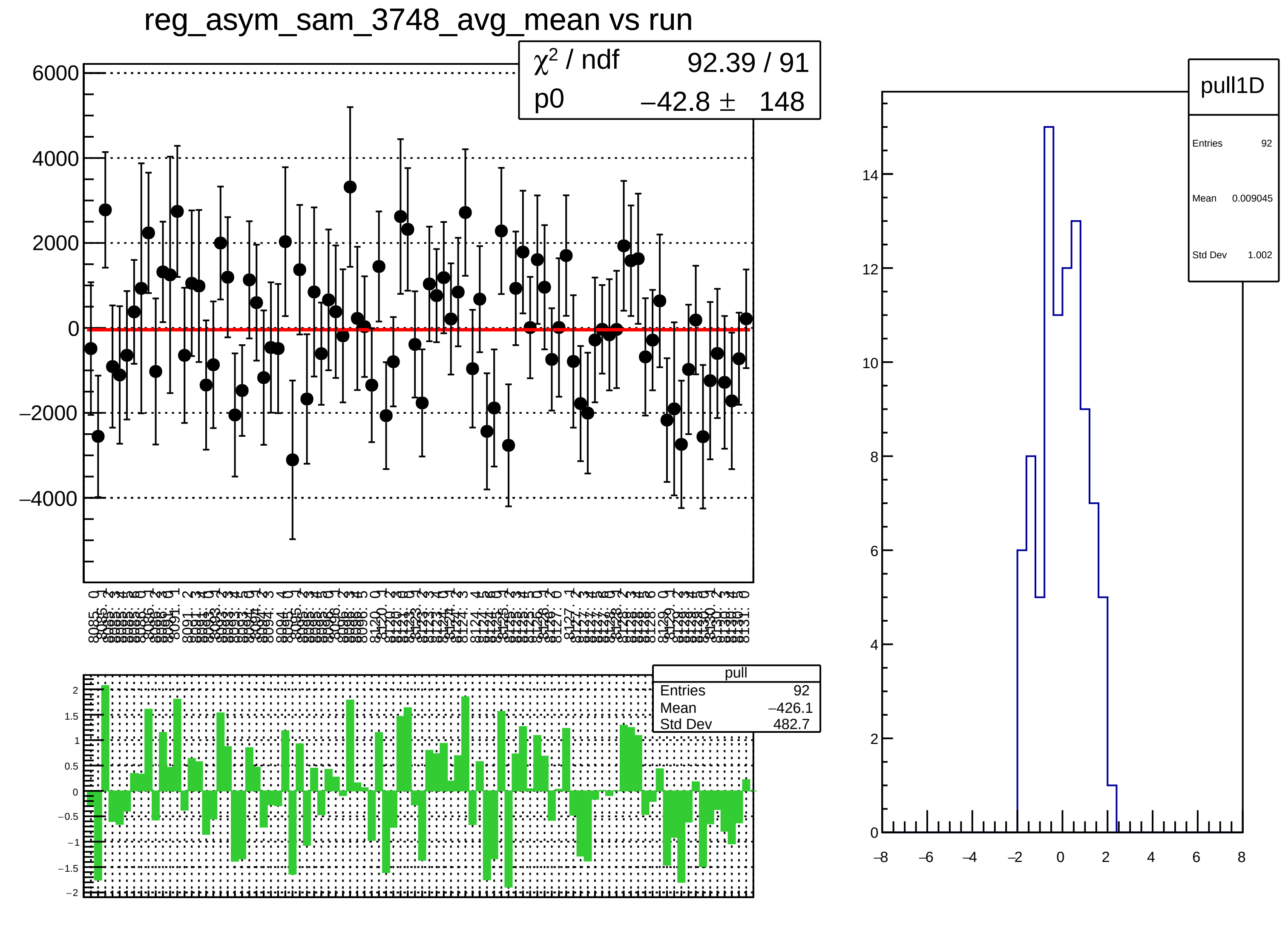
asym_sam_1548_avg_correction_mean vs run
χ^2 / ndf 66.23 / 91
p0 −1346 ± 1181
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −64.59
Std Dev 125.5
pull1D
Entries 92
Mean −0.00972
Std Dev 0.8484


asym_sam_1548_avg_correction_rms vs run
χ^2 / ndf 3679 / 91
p0 1133 ± 0.8352
1600
1500
1400
1300
1200
1100
1000

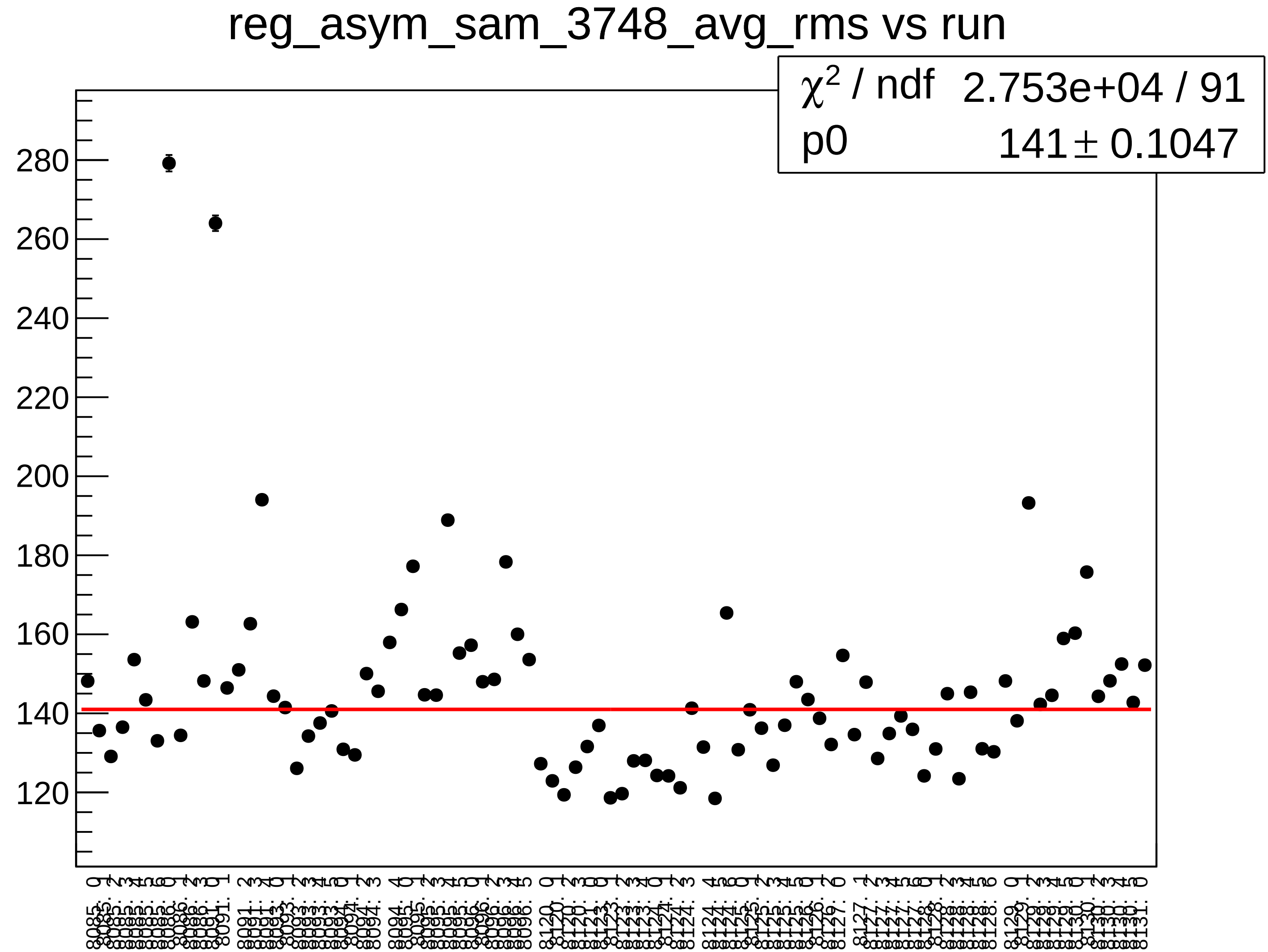

asym_sam_1548_avg_mean vs run
χ^2 / ndf 67.73 / 91
p0 1389 ± 1186
pull
Entries 92
Mean −87.49
Std Dev 145.5
pull1D
Entries 92
Mean 0.01138
Std Dev 0.858



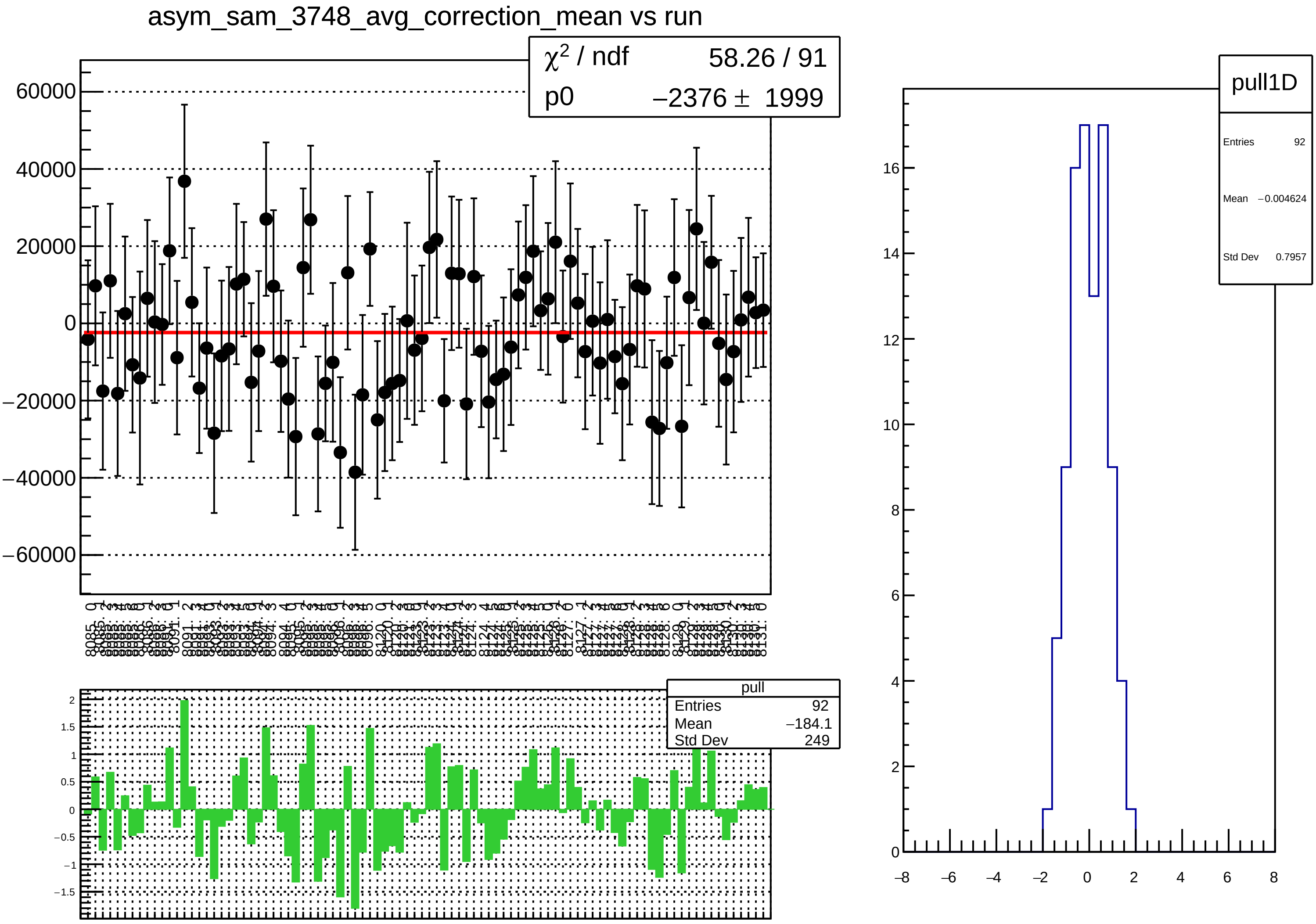
asym_sam_1548_avg_rms vs run
χ^2 / ndf 3653 / 91
p0 1137 ± 0.8387
1600
1500
1400
1300
1200
1100
1000



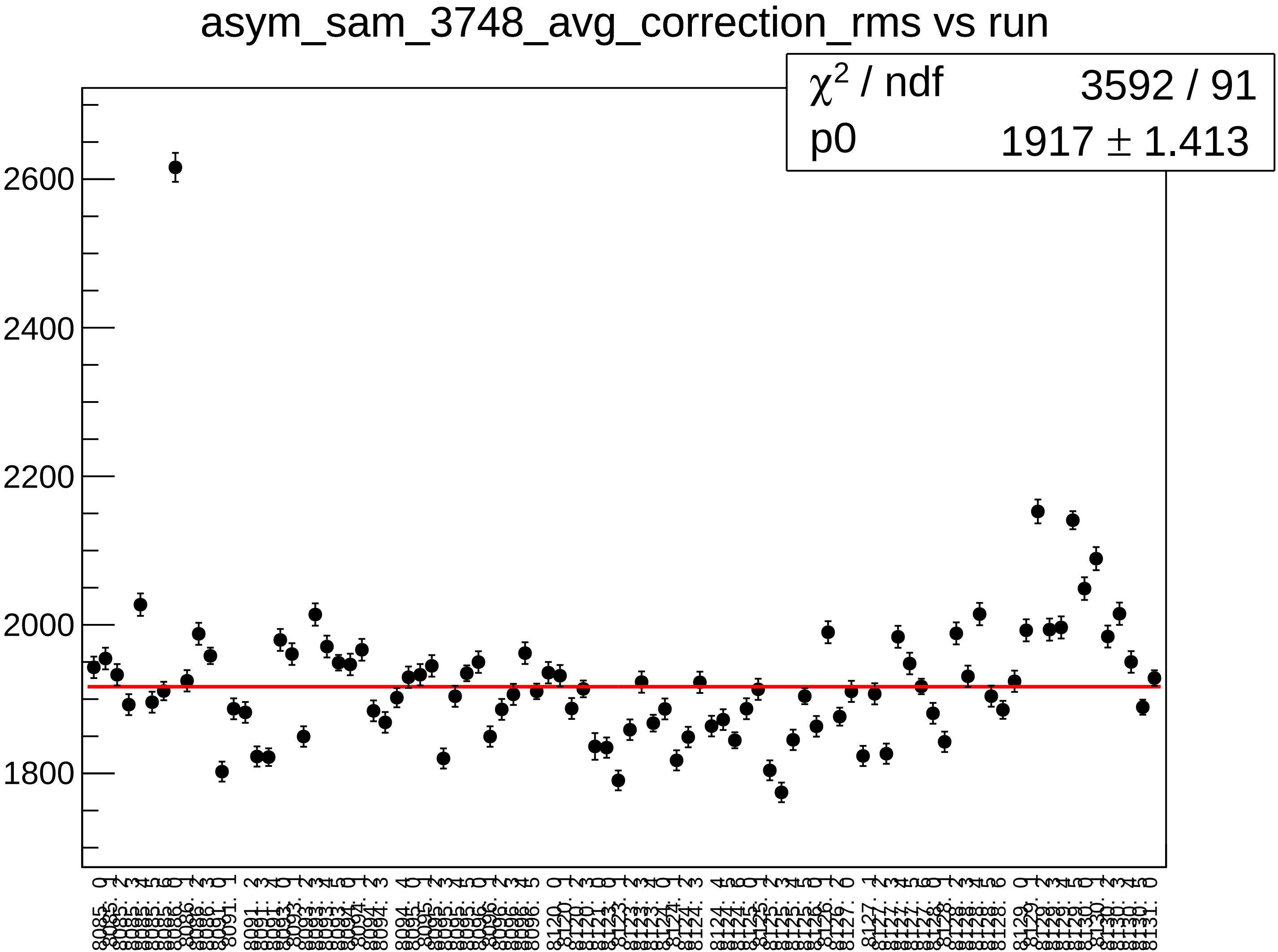
reg_asym_sam_3748_avg_mean vs run
χ^2 / ndf 92.39 / 91
p0 −42.8 ± 148
6000
4000
2000
0
−2000
−4000
pull
Entries 92
Mean −426.1
Std Dev 482.7
pull1D
Entries 92
Mean 0.009045
Std Dev 1.002



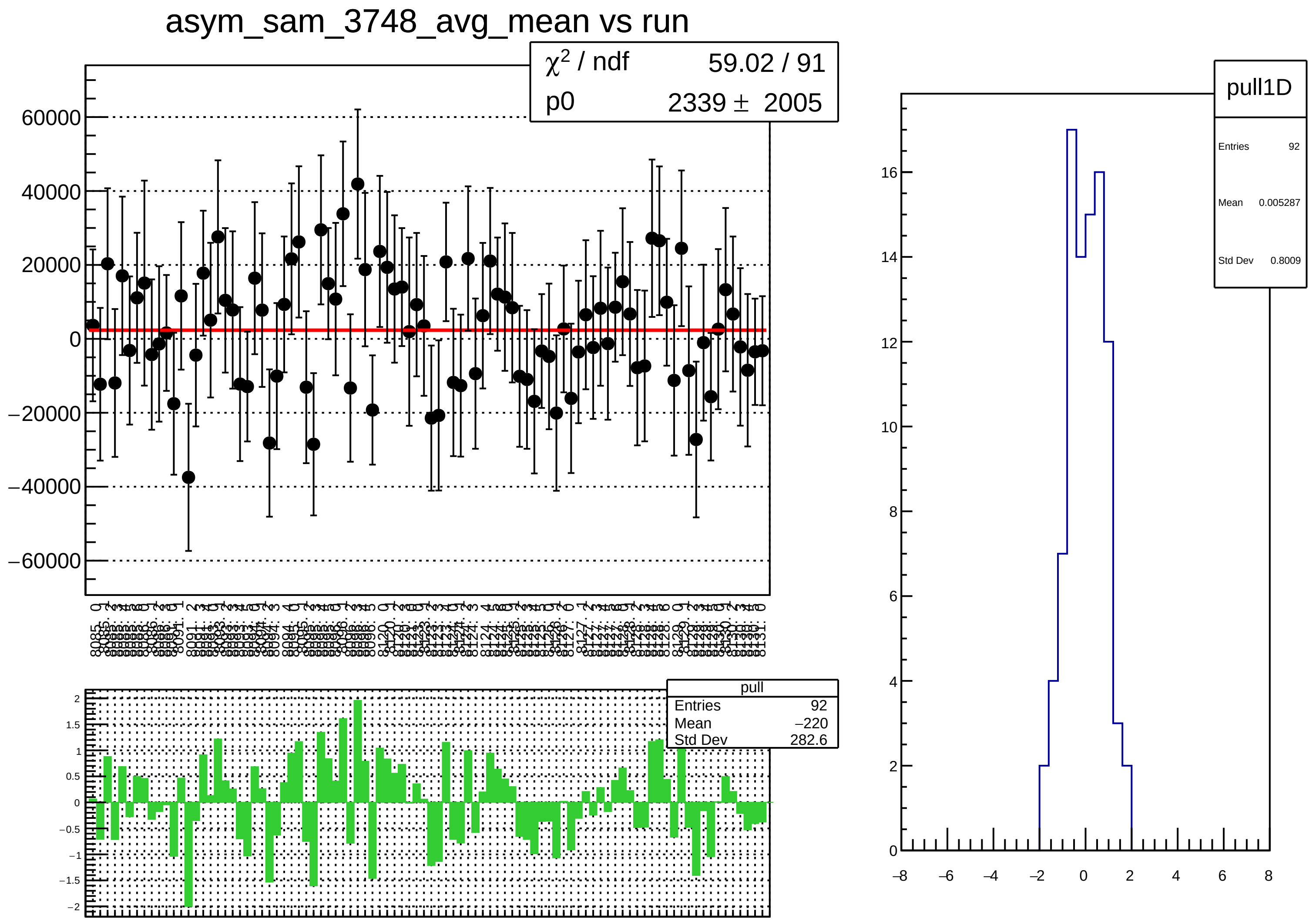
reg_asym_sam_3748_avg_rms vs run
χ^2 / ndf 2.753e+04 / 91
p0 141 ± 0.1047
280
260
240
220
200
180
160
140
120



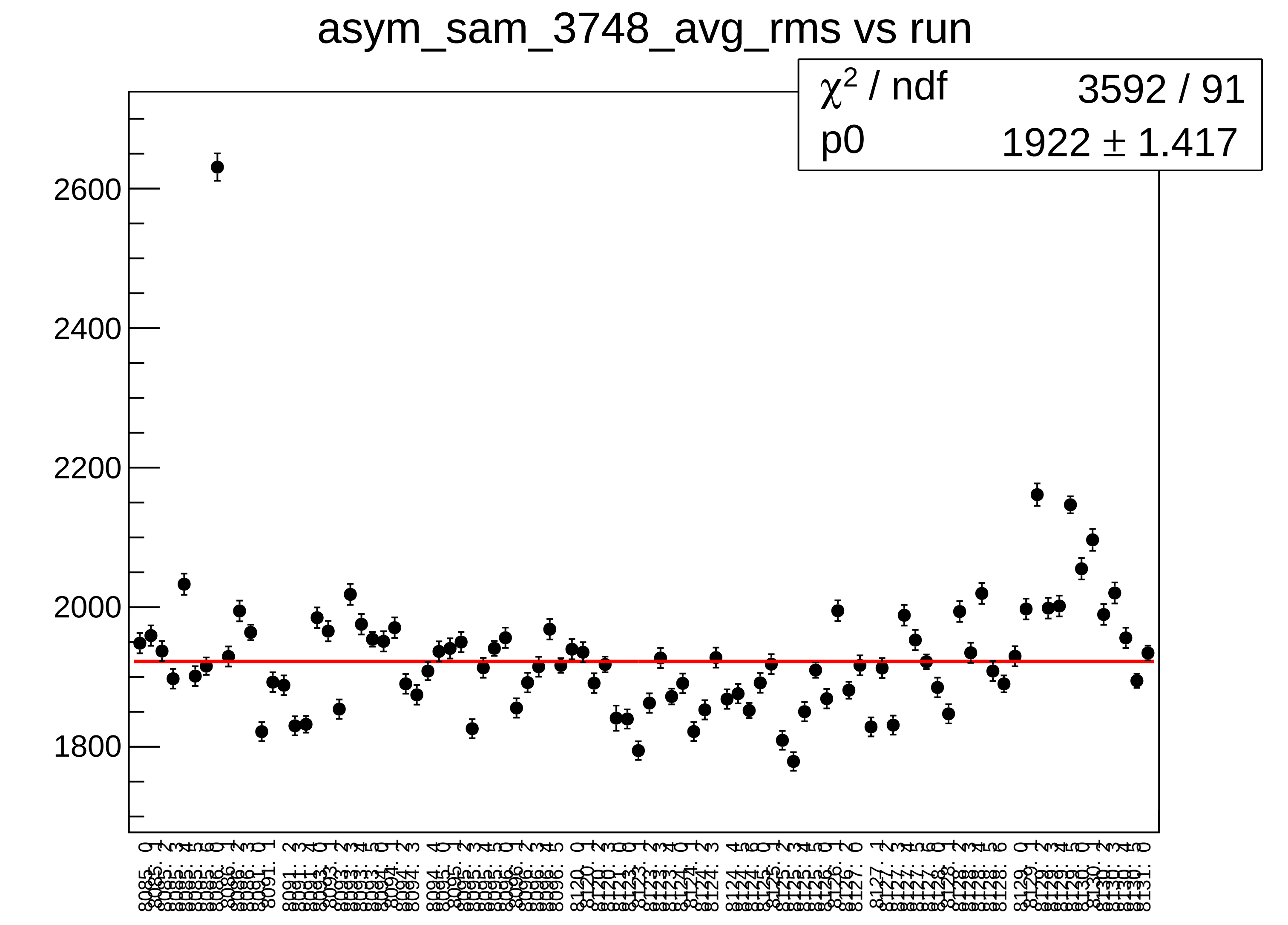
asym_sam_3748_avg_correction_mean vs run
χ2 / ndf 58.26 / 91
p0 −2376 ± 1999
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 92
Mean −184.1
Std Dev 249
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.004624
Std Dev 0.7957
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



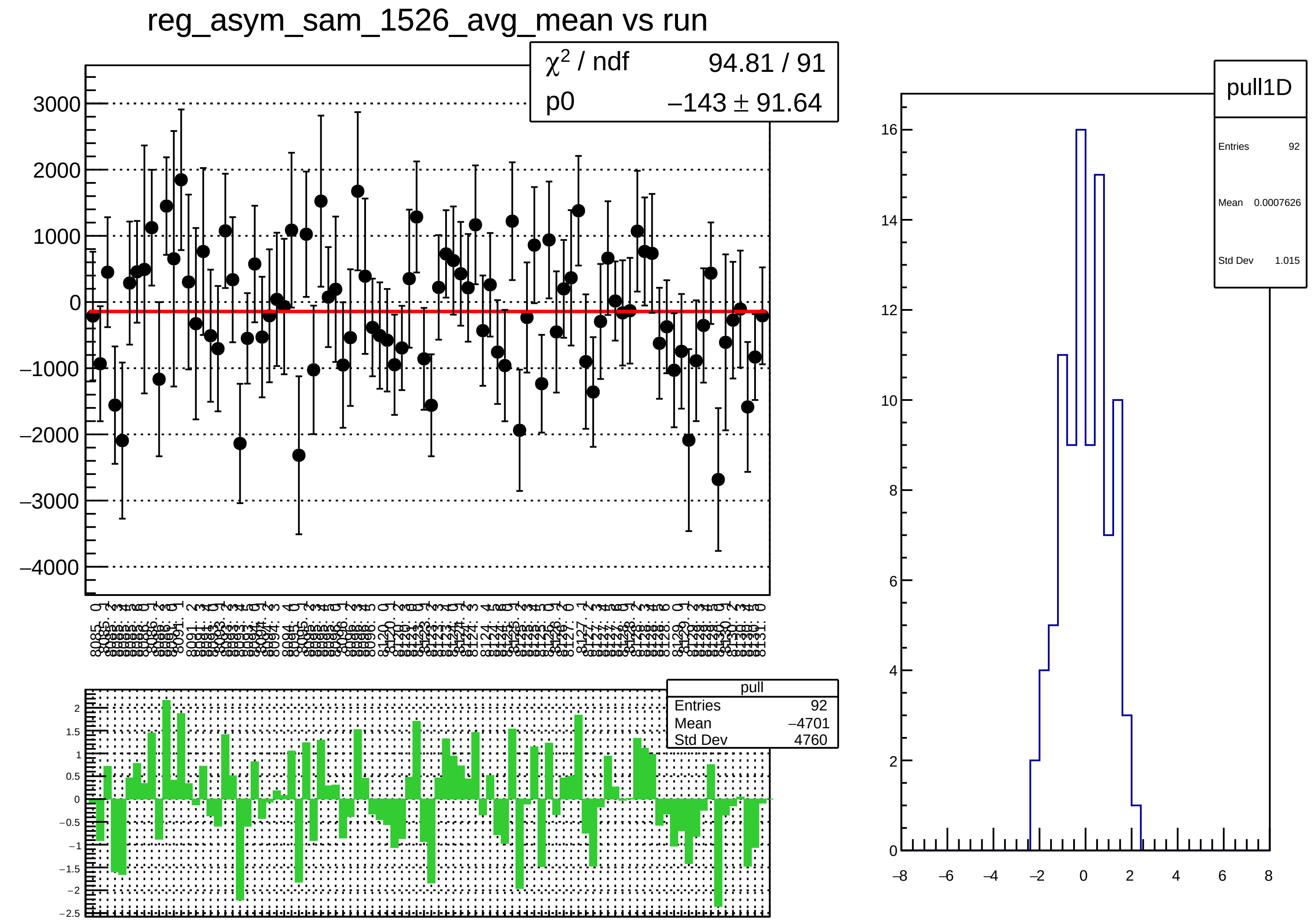
asym_sam_3748_avg_correction_rms vs run
χ^2 / ndf 3592 / 91
p0 1917 ± 1.413
2600
2400
2200
2000
1800



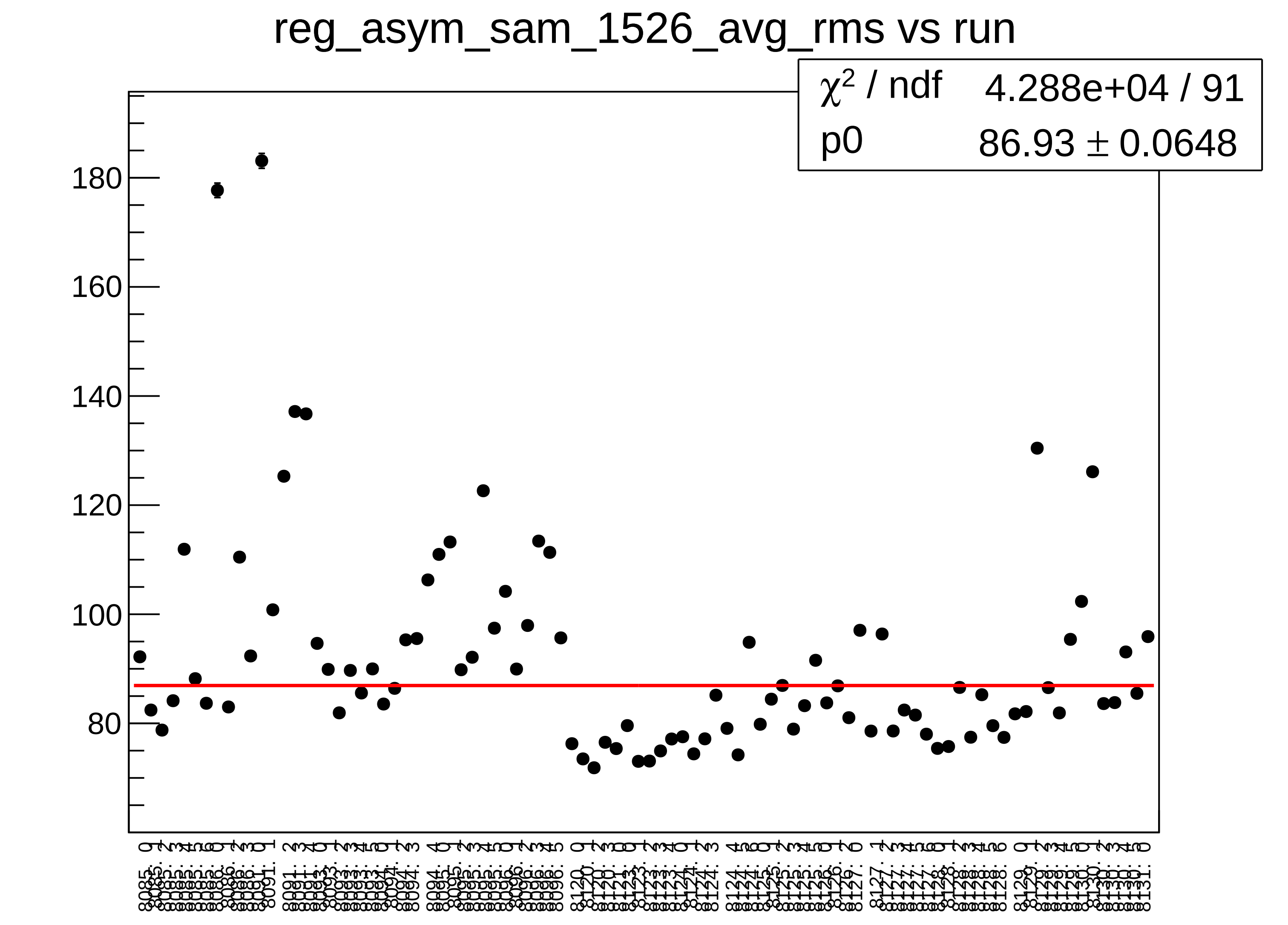
asym_sam_3748_avg_mean vs run
χ^2 / ndf 59.02 / 91
p0 2339 ± 2005
pull
Entries 92
Mean −220
Std Dev 282.6
pull1D
Entries 92
Mean 0.005287
Std Dev 0.8009

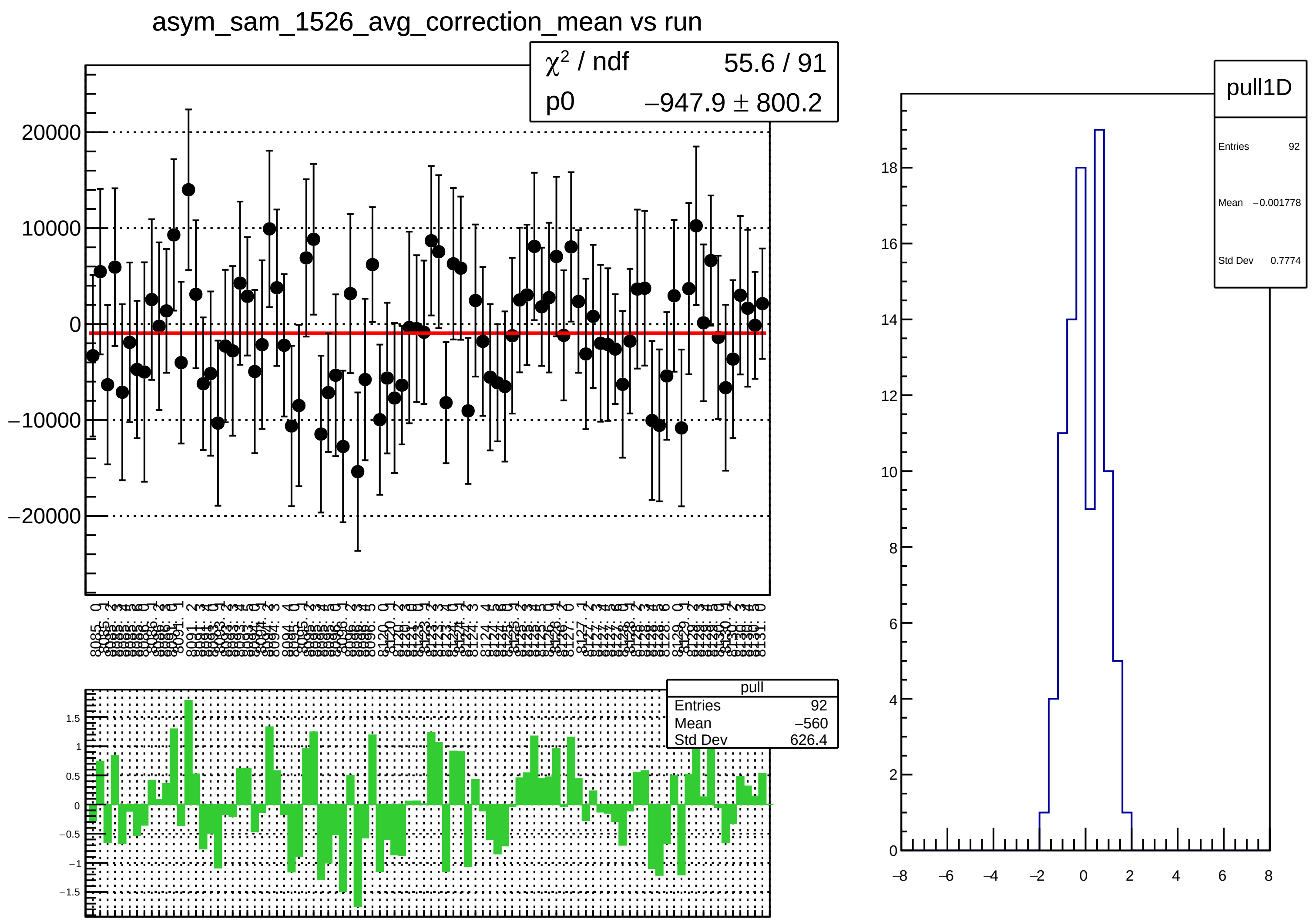


asym_sam_3748_avg_rms vs run
χ^2 / ndf 3592 / 91
p0 1922 ± 1.417
2600
2400
2200
2000
1800

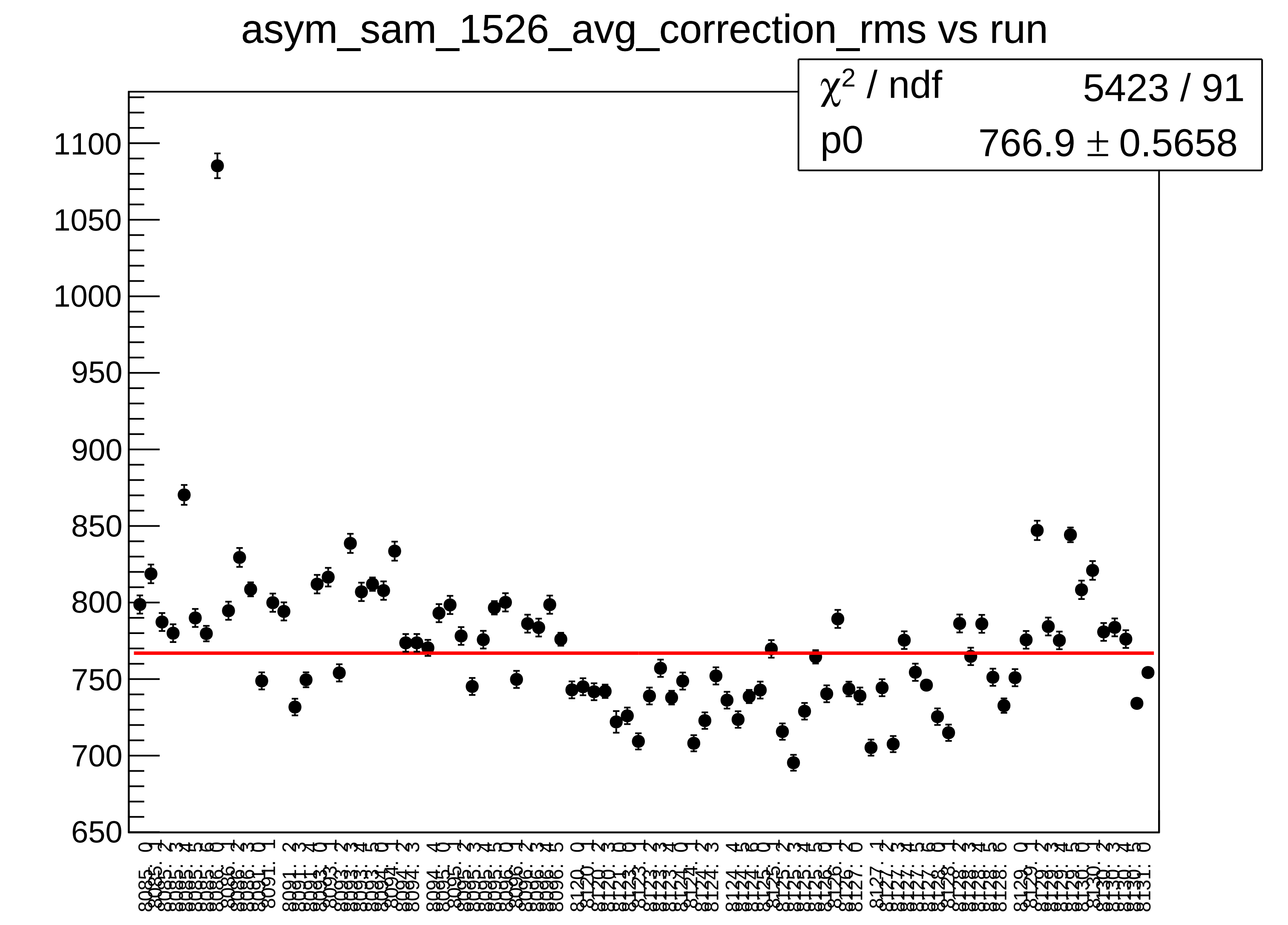


reg_asym_sam_1526_avg_mean vs run
χ^2 / ndf 94.81 / 91
p0 −143 ± 91.64
pull
Entries 92
Mean −4701
Std Dev 4760
pull1D
Entries 92
Mean 0.0007626
Std Dev 1.015

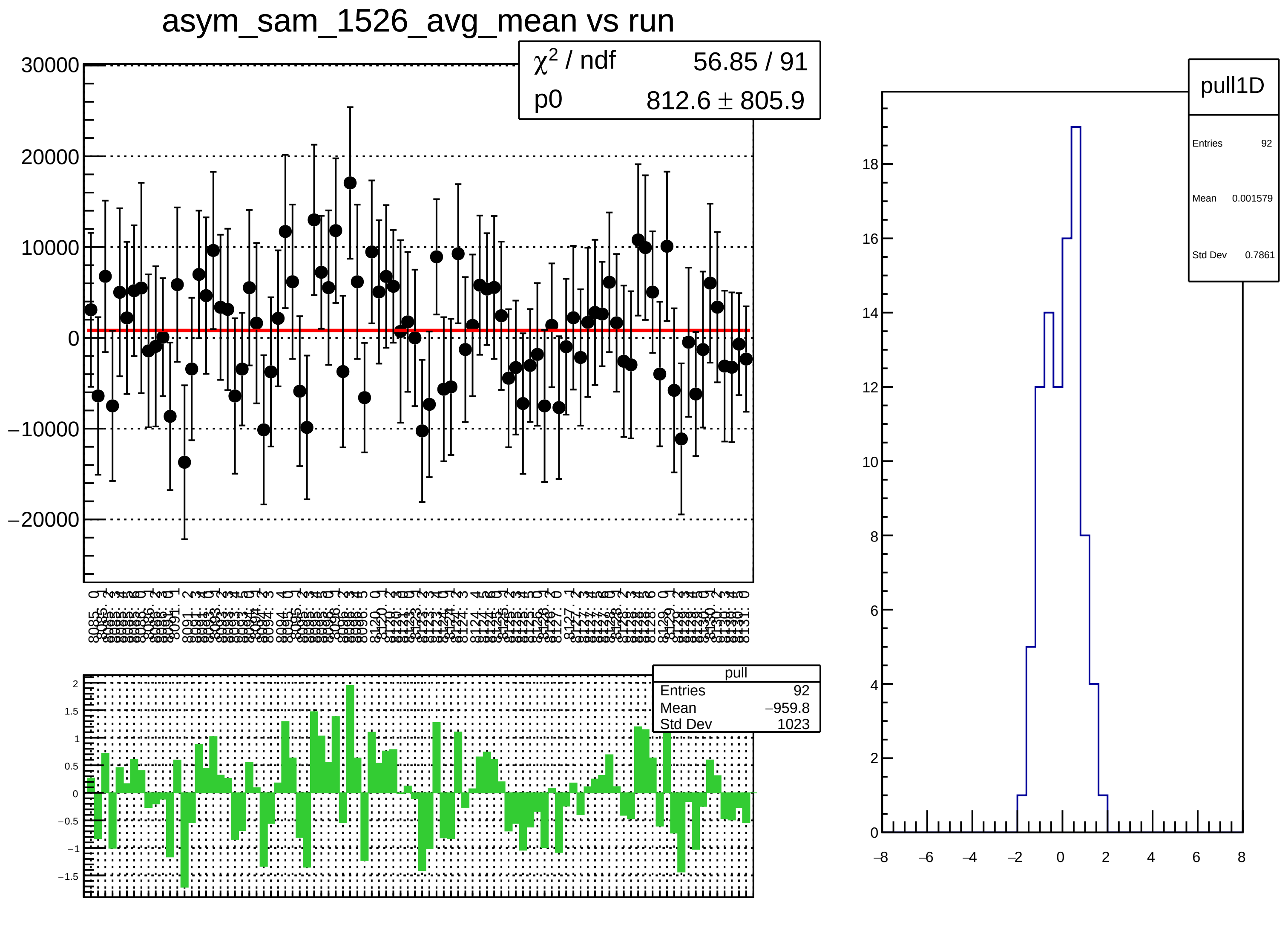

reg_asym_sam_1526_avg_rms vs run
χ2 / ndf 4.288e+04 / 91
p0 86.93 ± 0.0648
180
160
140
120
100
80



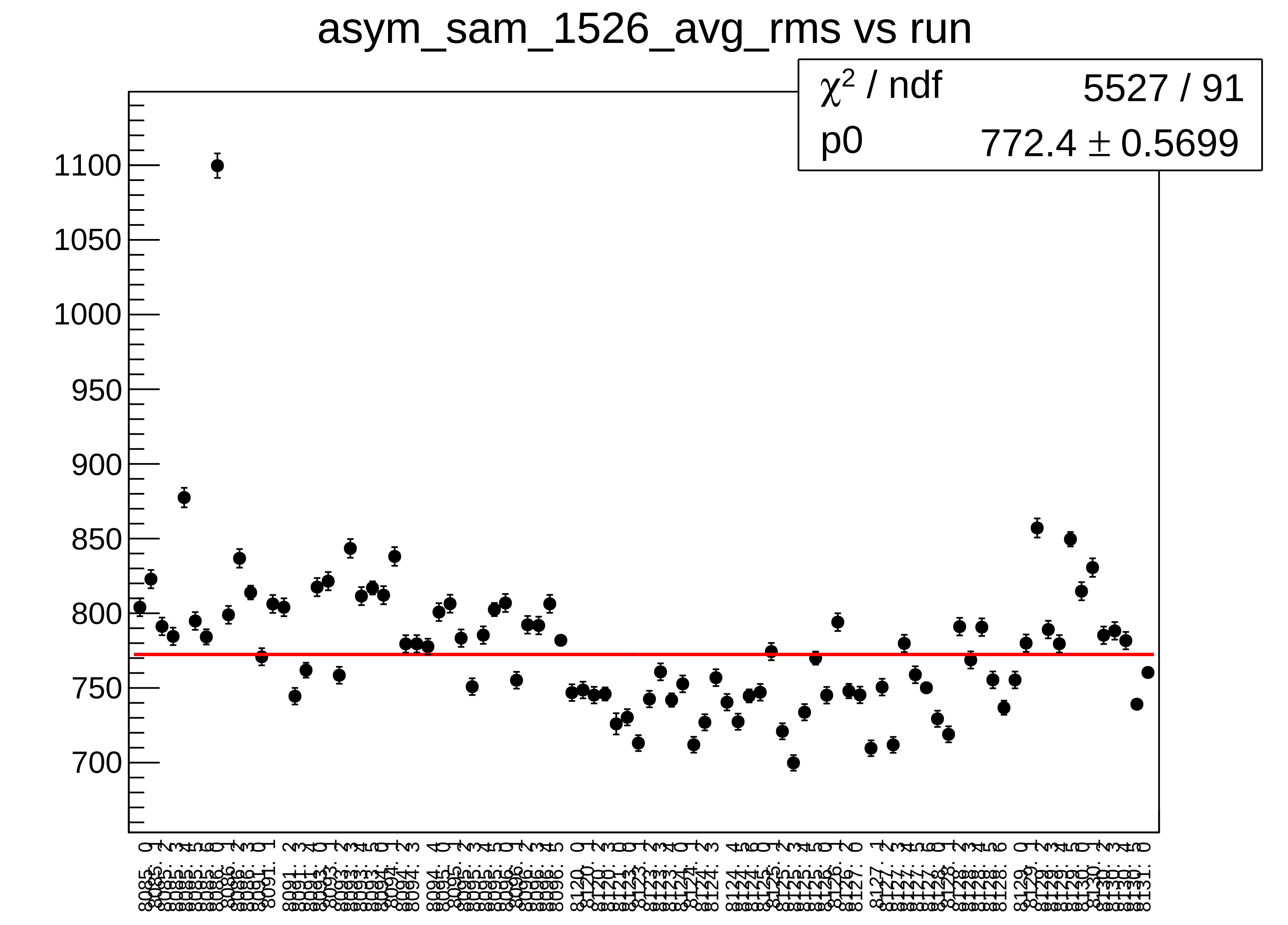
asym_sam_1526_avg_correction_mean vs run
χ^2 / ndf 55.6 / 91
p0 −947.9 ± 800.2
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −560
Std Dev 626.4
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.001778
Std Dev 0.7774
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



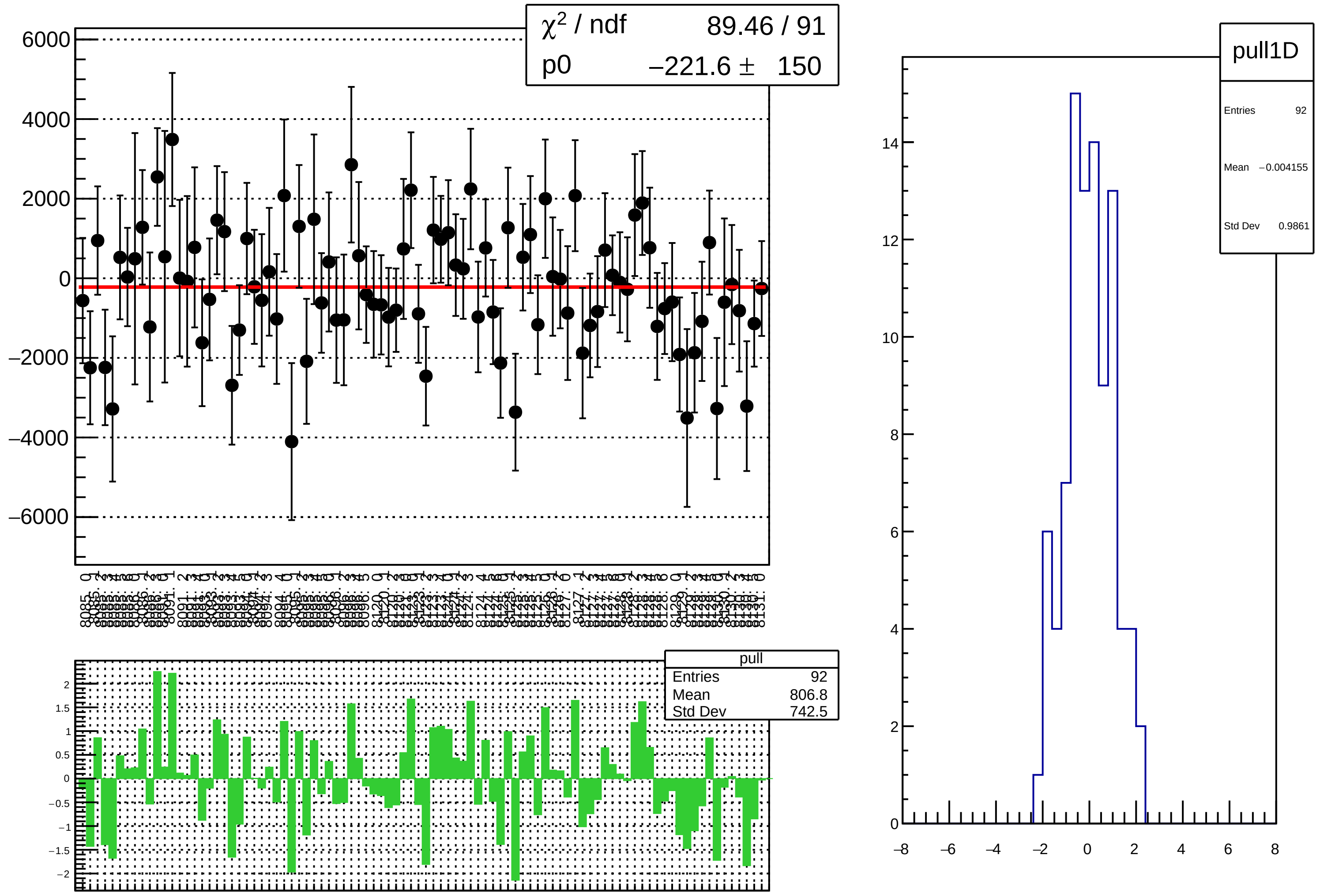
asym_sam_1526_avg_correction_rms vs run
χ2 / ndf 5423 / 91
p0 766.9 ± 0.5658

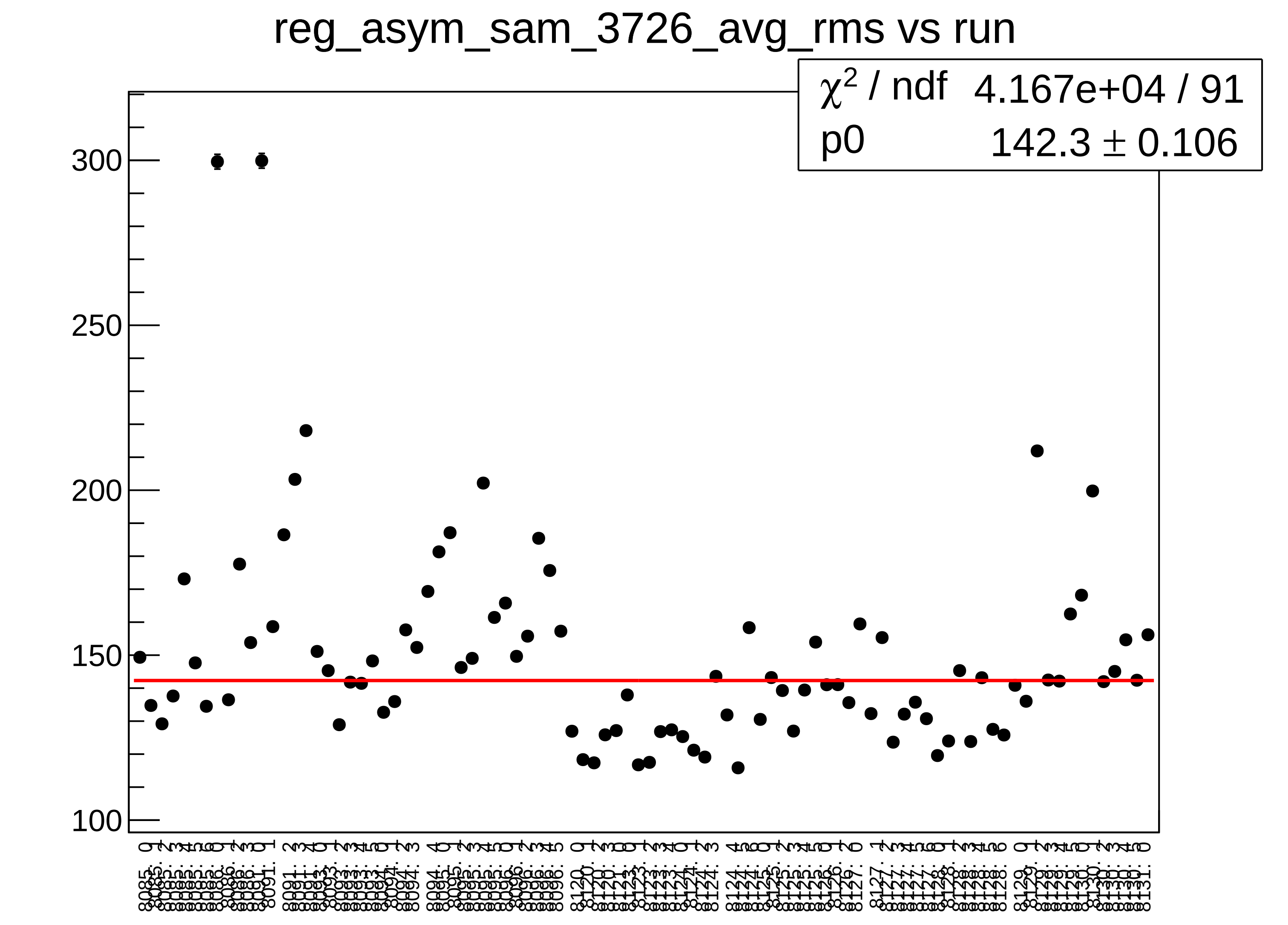


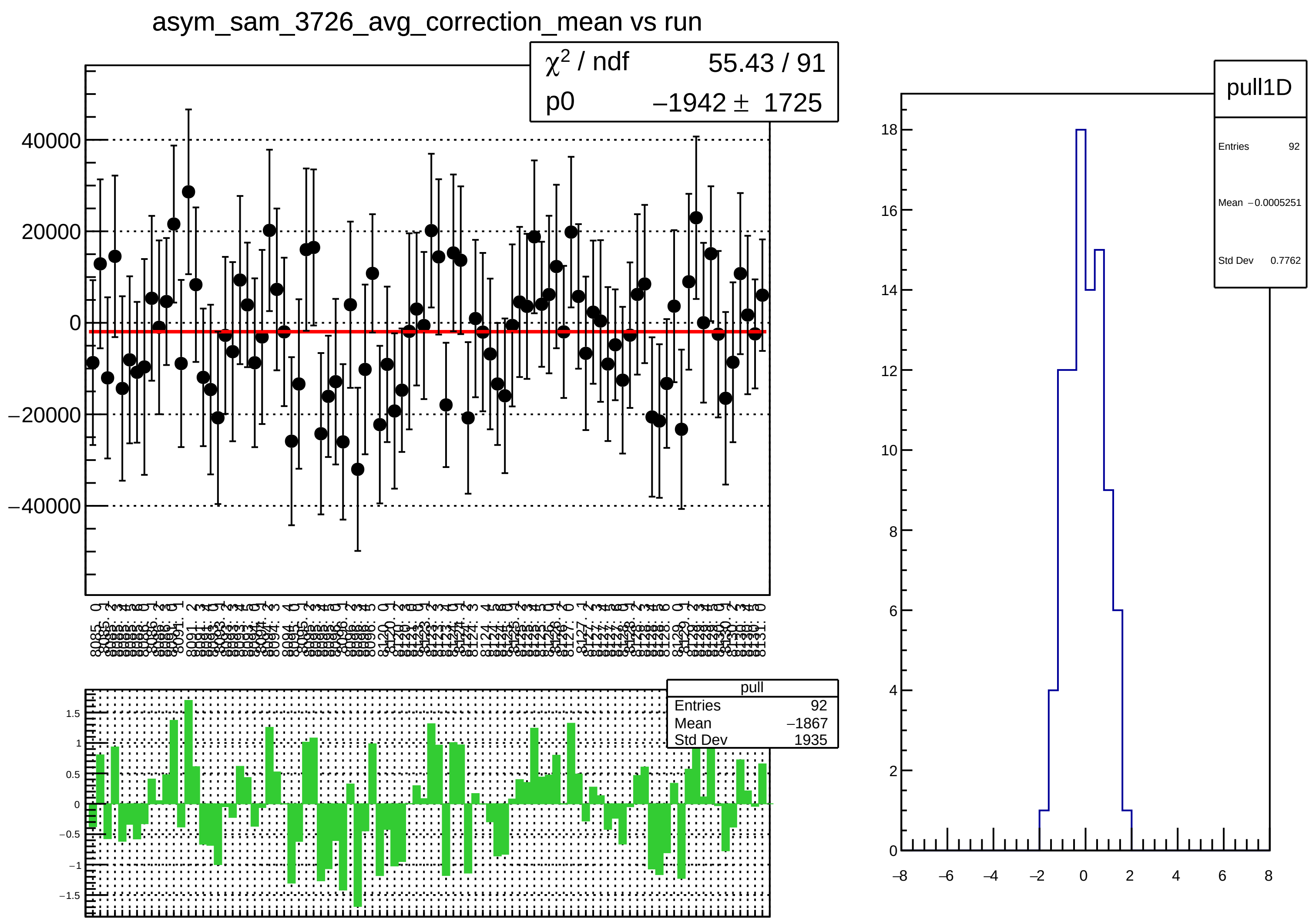
asym_sam_1526_avg_mean vs run
χ^2 / ndf 56.85 / 91
p0 812.6 ± 805.9
30000
20000
10000
0
−10000
−20000
pull
Entries 92
Mean −959.8
Std Dev 1023
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.001579
Std Dev 0.7861
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_sam_1526_avg_rms vs run
χ2 / ndf 5527 / 91
p0 772.4 ± 0.5699
1100
1050
1000
950
900
850
800
750
700

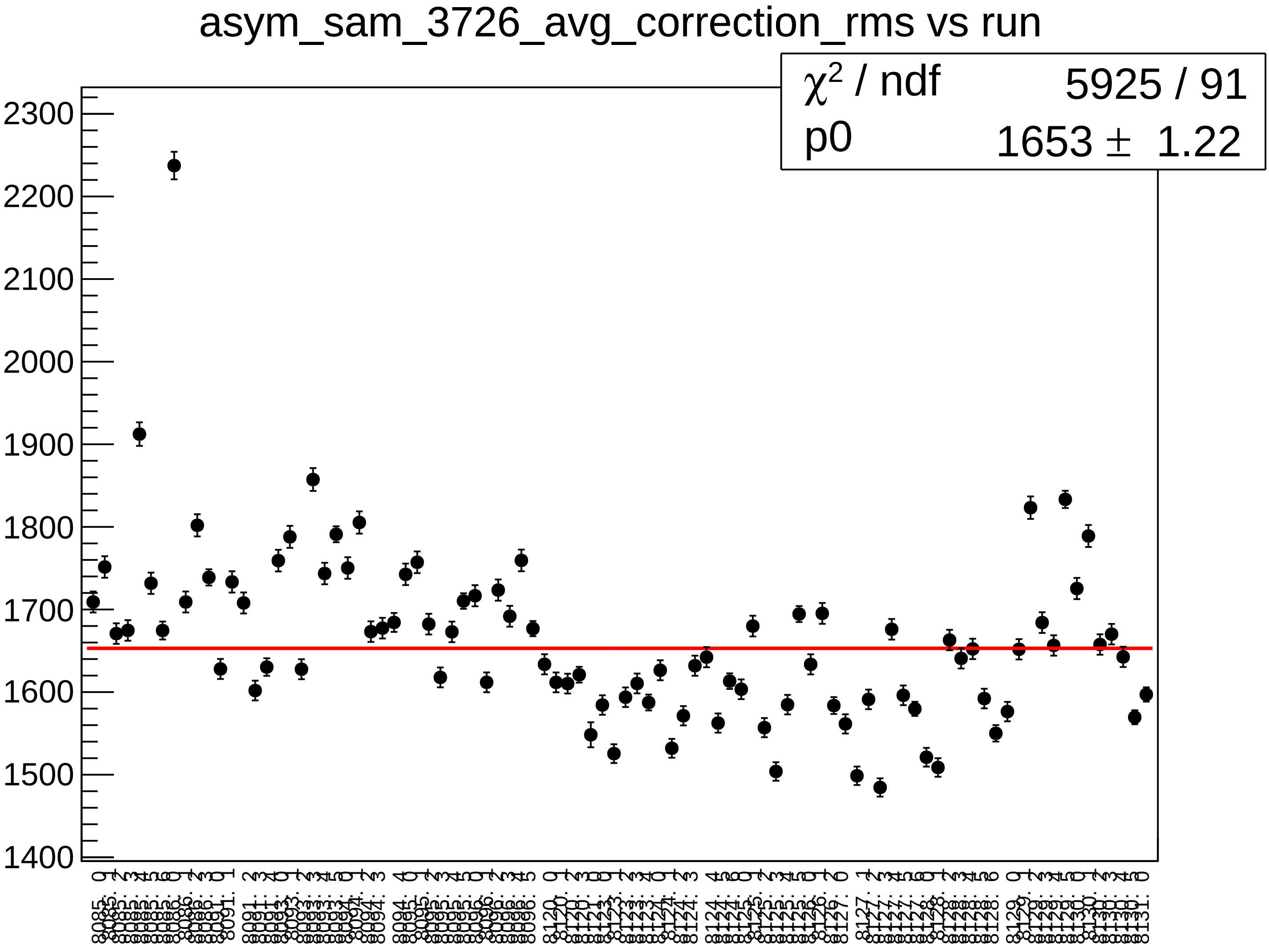
reg_asym_sam_3726_avg_mean vs run



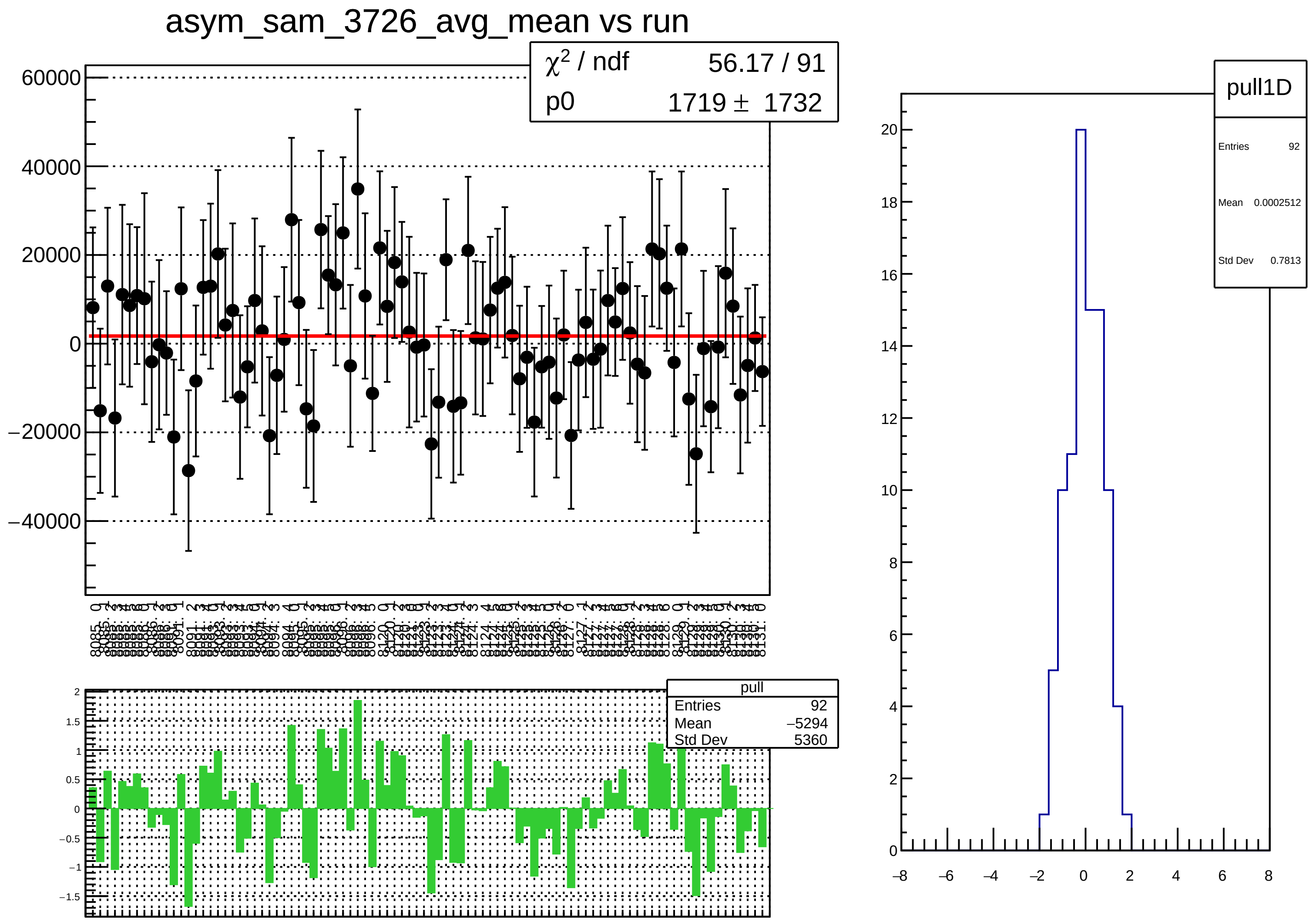

reg_asym_sam_3726_avg_rms vs run
χ^2 / ndf 4.167e+04 / 91
p0 142.3 ± 0.106
300
250
200
150
100



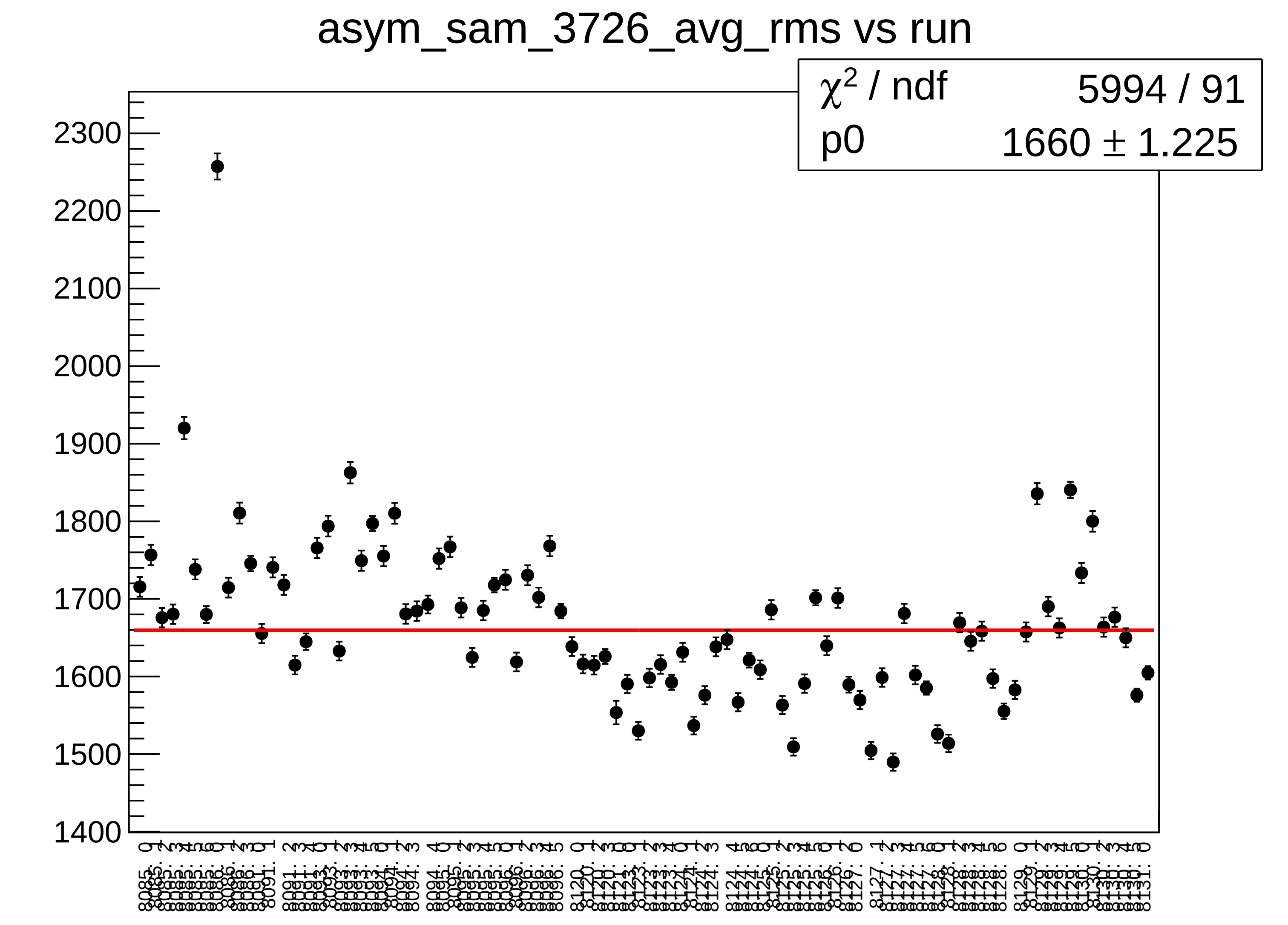
asym_sam_3726_avg_correction_mean vs run
χ^2 / ndf 55.43 / 91
p0 −1942 ± 1725
pull
Entries 92
Mean −1867
Std Dev 1935
pull1D
Entries 92
Mean −0.0005251
Std Dev 0.7762



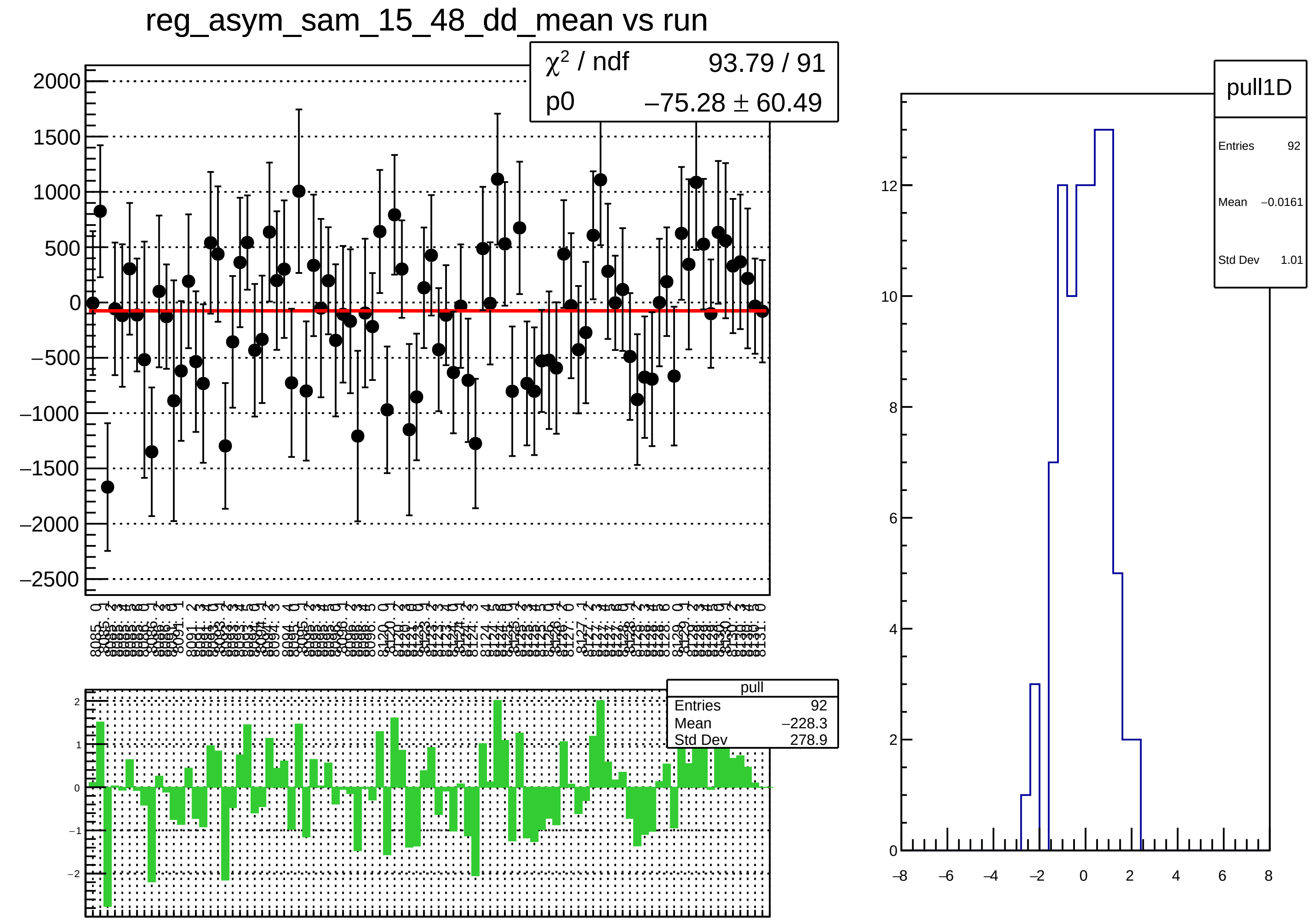
asym_sam_3726_avg_correction_rms vs run
χ^2 / ndf 5925 / 91
p0 1653 ± 1.22
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400



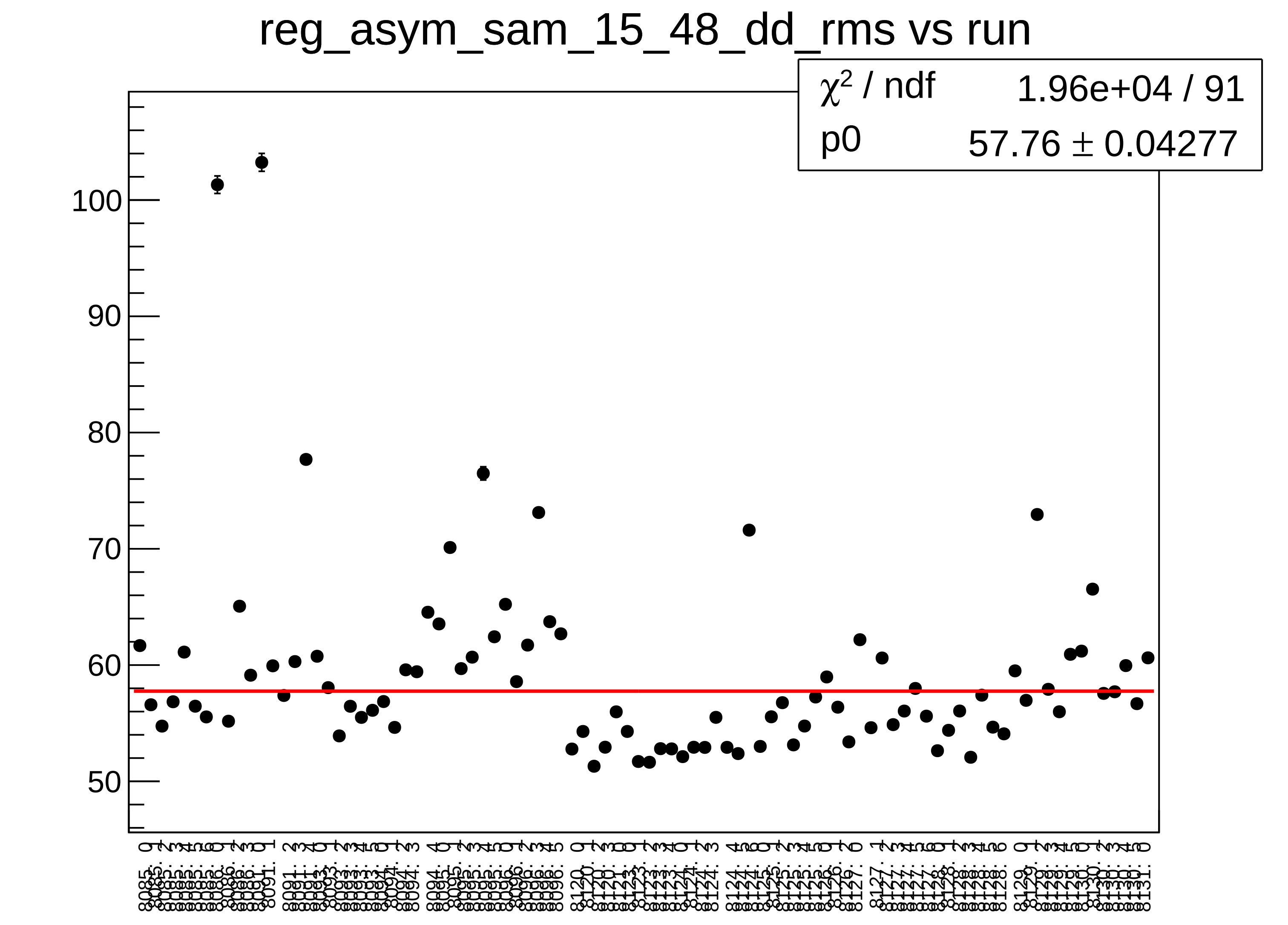
asym_sam_3726_avg_mean vs run
χ^2 / ndf 56.17 / 91
p0 1719 ± 1732
pull
Entries 92
Mean −5294
Std Dev 5360
pull1D
Entries 92
Mean 0.0002512
Std Dev 0.7813



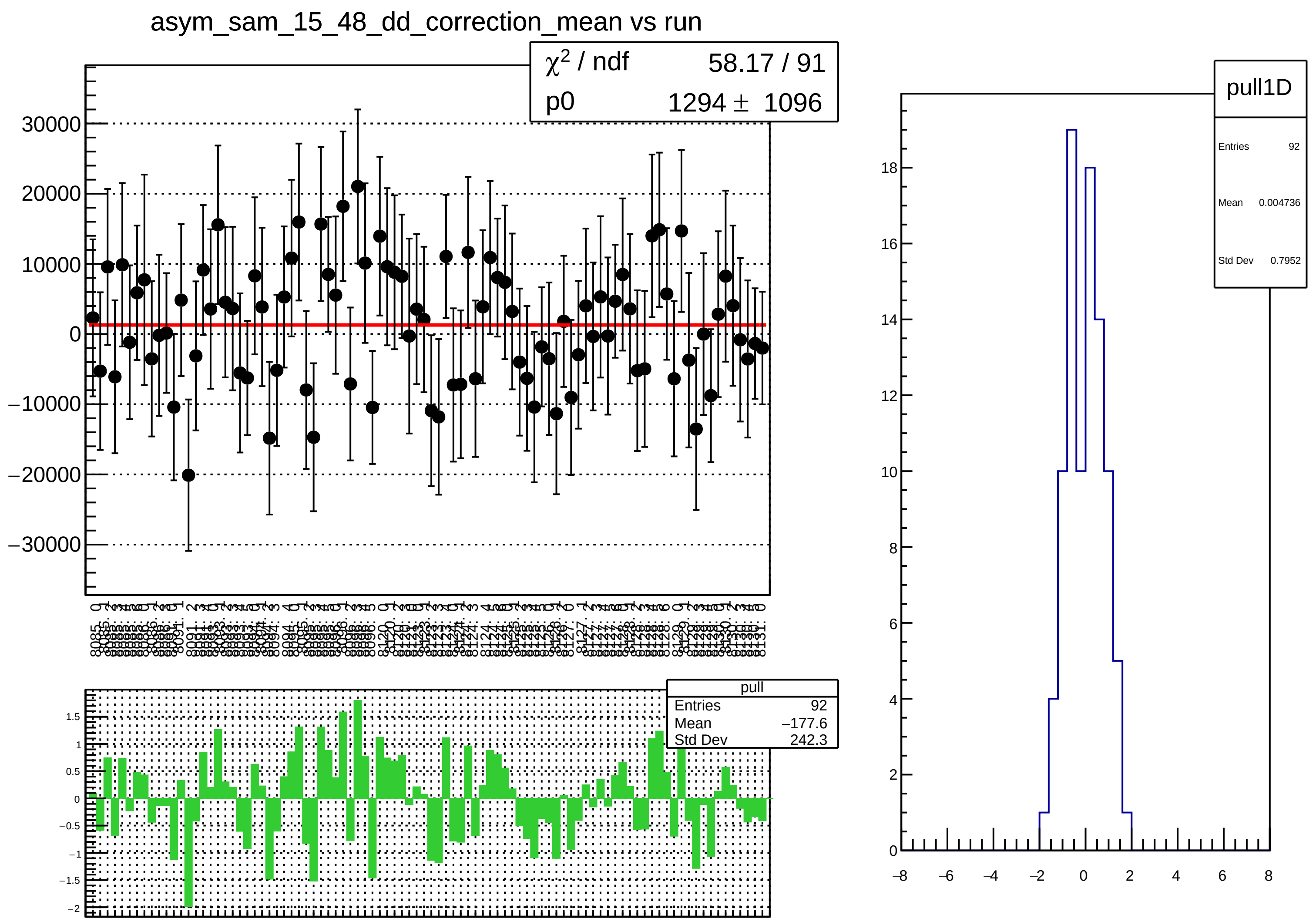
asym_sam_3726_avg_rms vs run
χ^2 / ndf 5994 / 91
p0 1660 ± 1.225
2300
2200
2100
2000
1900
1800
1700
1600
1500
1400



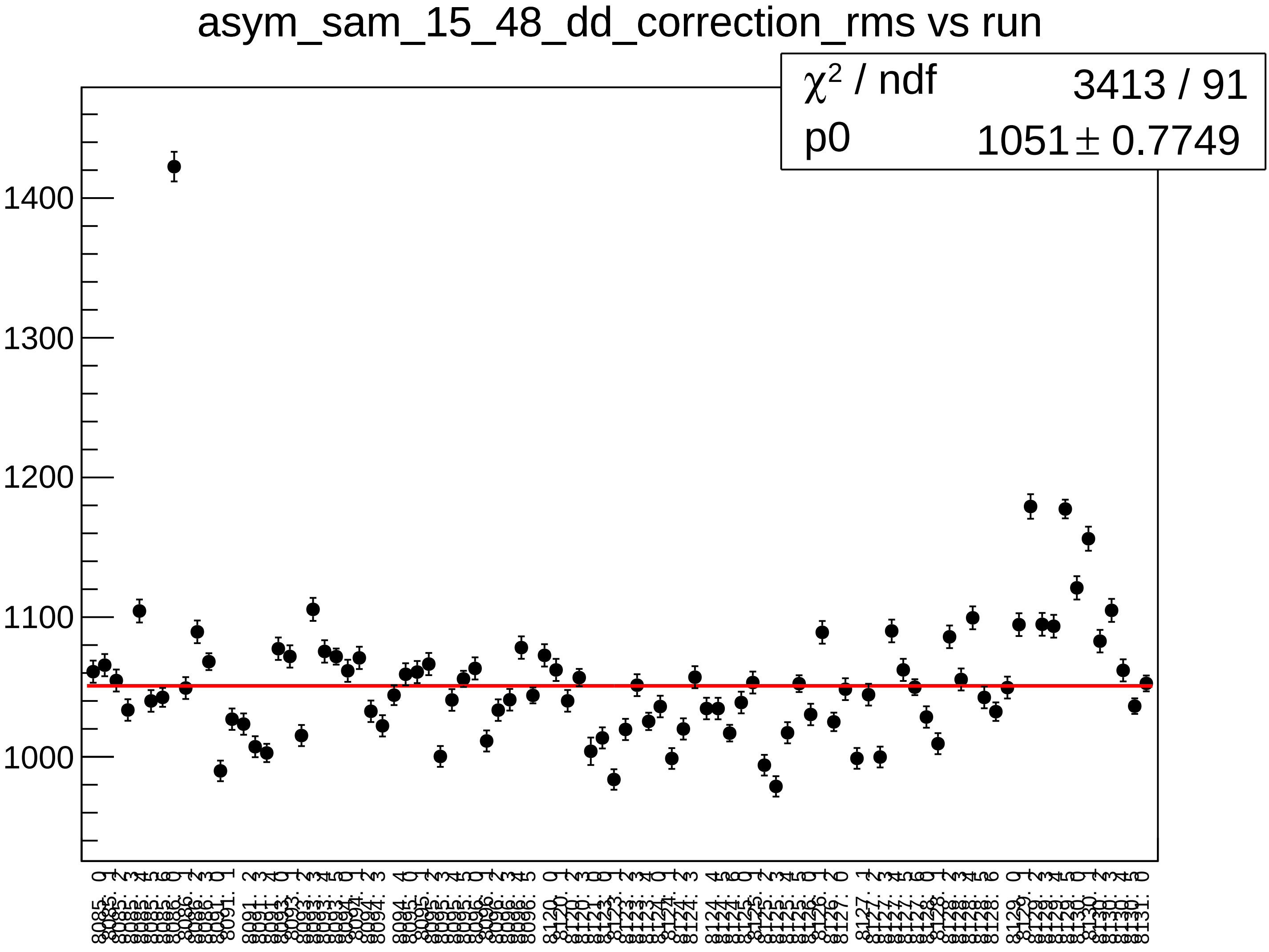
reg_asym_sam_15_48_dd_mean vs run
χ^2 / ndf 93.79 / 91
p0 −75.28 ± 60.49
pull
Entries 92
Mean −228.3
Std Dev 278.9
pull1D
Entries 92
Mean −0.0161
Std Dev 1.01



reg_asym_sam_15_48_dd_rms vs run
χ^2 / ndf 1.96e+04 / 91
p0 57.76 ± 0.04277
100
90
80
70
60
50

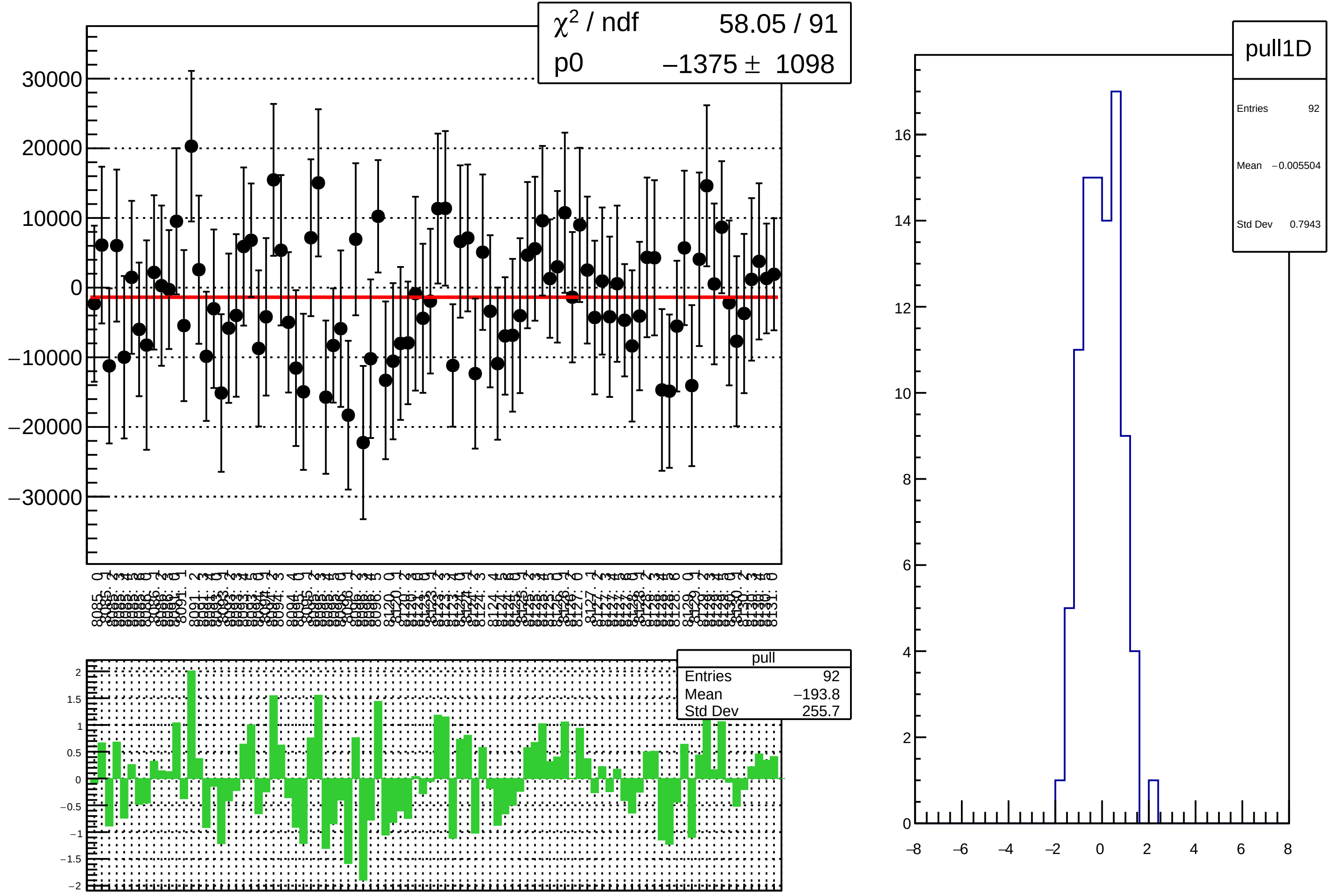


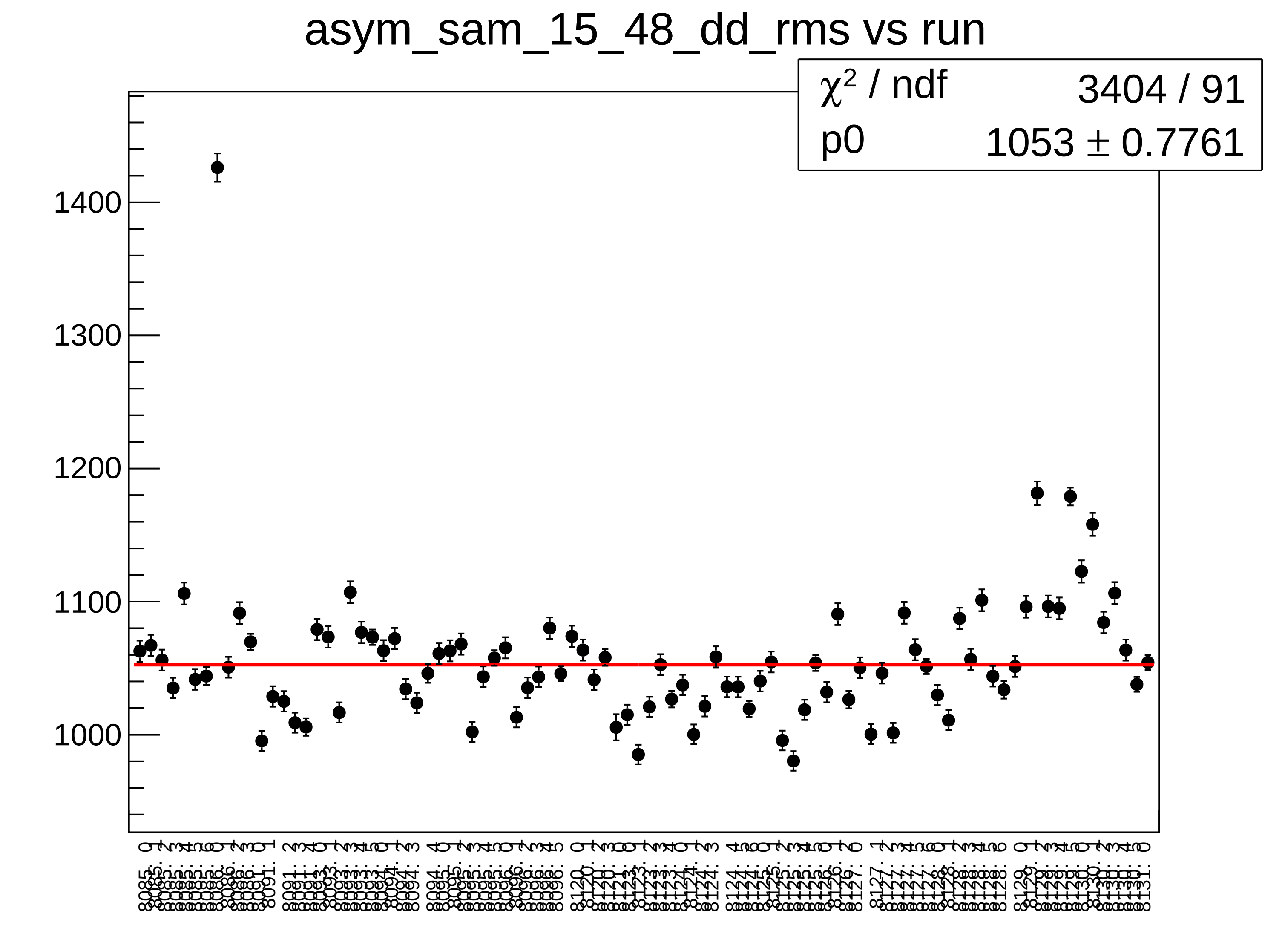
asym_sam_15_48_dd_correction_mean vs run
χ^2 / ndf 58.17 / 91
p0 1294 ± 1096
pull
Entries 92
Mean −177.6
Std Dev 242.3
pull1D
Entries 92
Mean 0.004736
Std Dev 0.7952



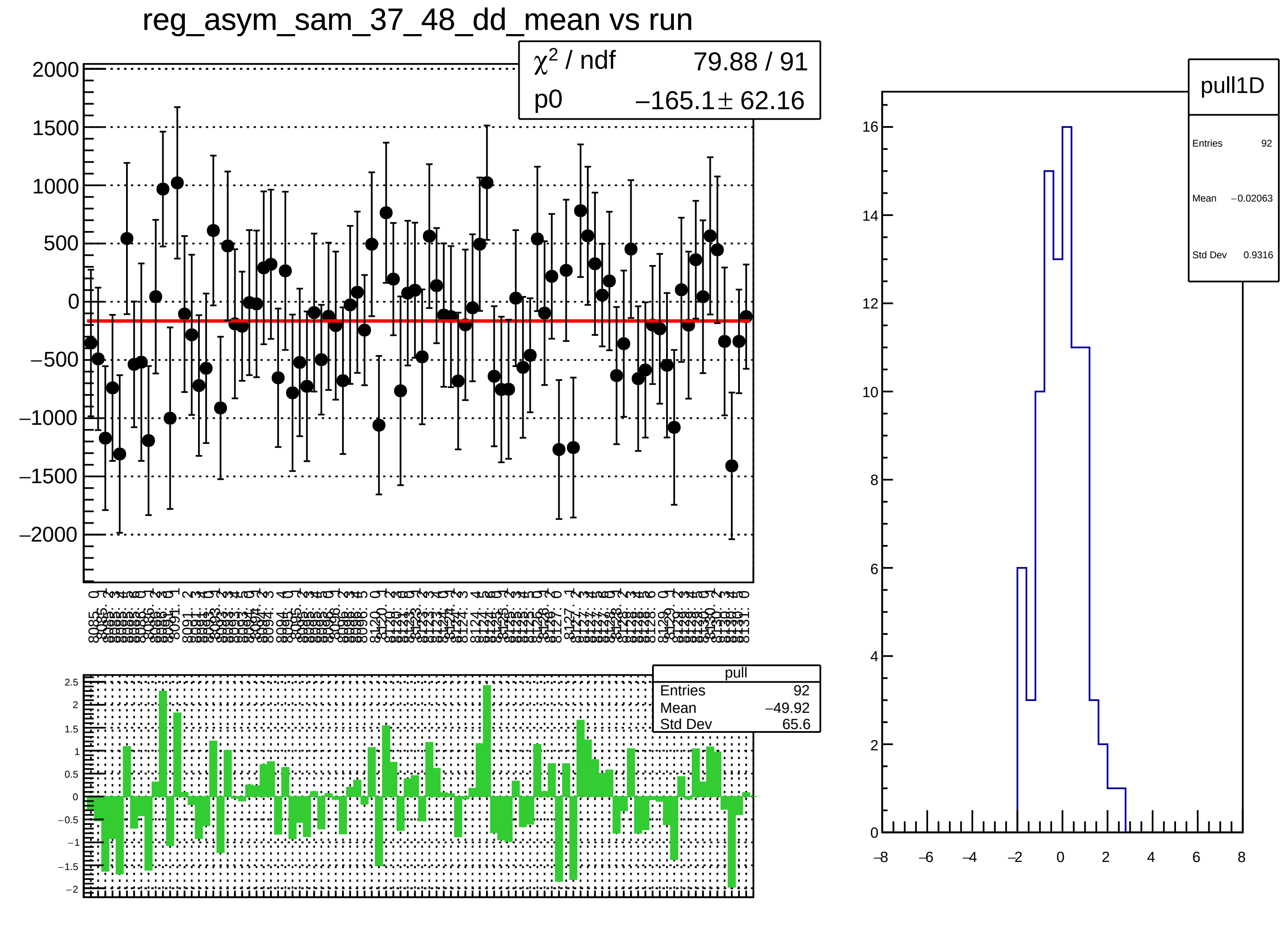
asym_sam_15_48_dd_correction_rms vs run
χ2 / ndf 3413 / 91
p0 1051 ± 0.7749
1400
1300
1200
1100
1000

asym_sam_15_48_dd_mean vs run

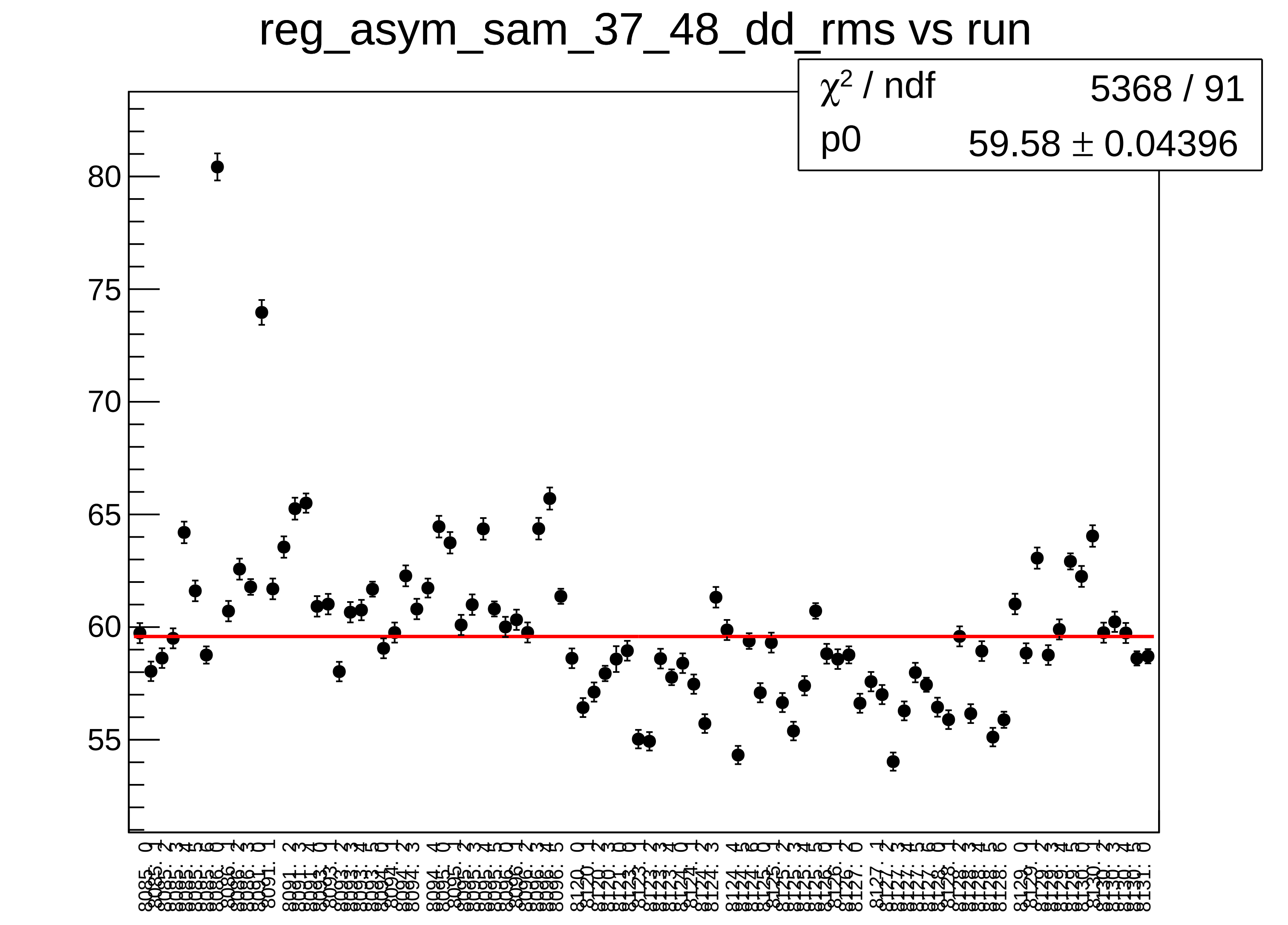


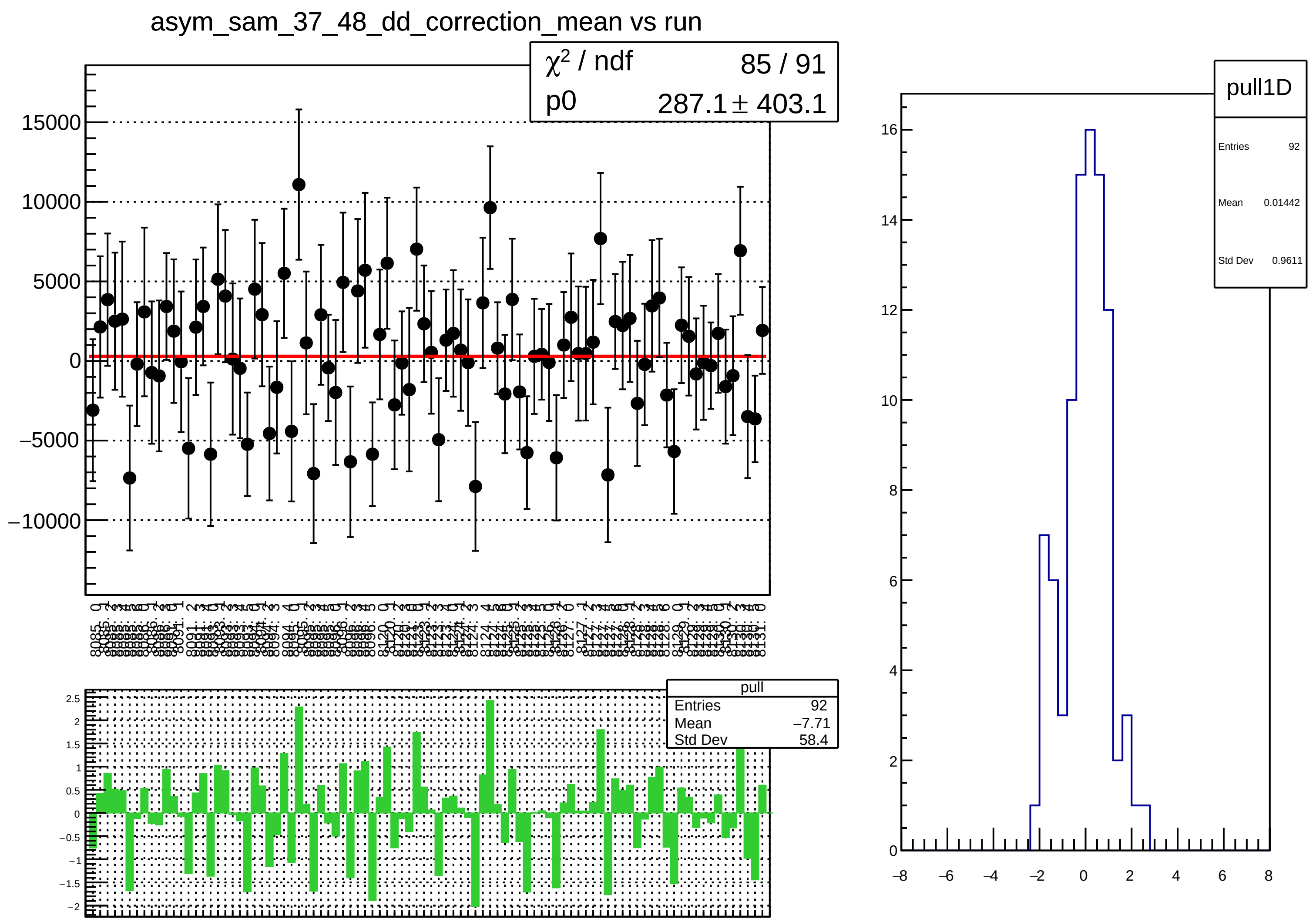


asym_sam_15_48_dd_rms vs run
χ^2 / ndf 3404 / 91
p0 1053 ± 0.7761
1400
1300
1200
1100
1000

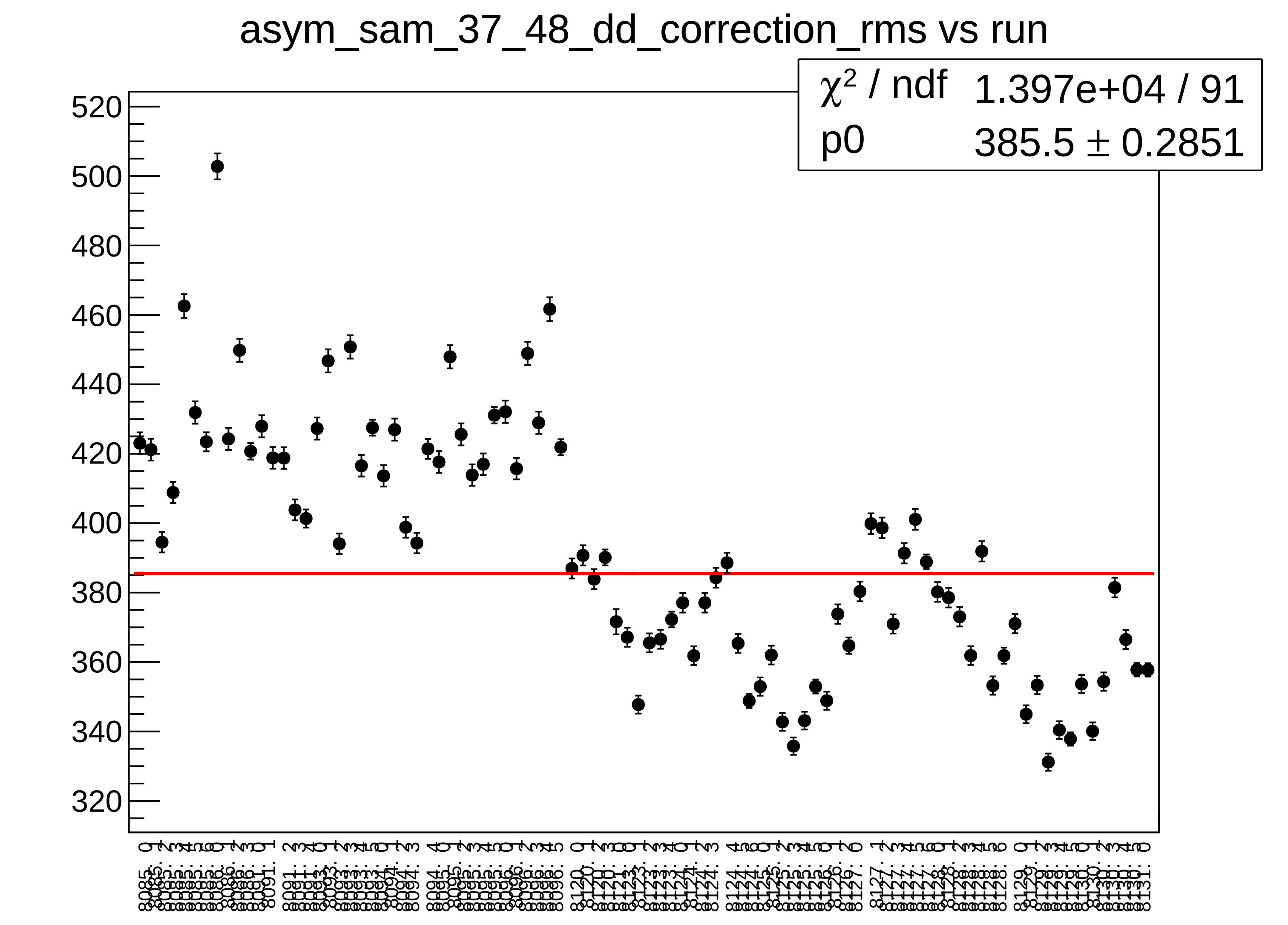


reg_asym_sam_37_48_dd_mean vs run
χ^2 / ndf 79.88 / 91
p0 −165.1 ± 62.16
pull
Entries 92
Mean −49.92
Std Dev 65.6
pull1D
Entries 92
Mean −0.02063
Std Dev 0.9316

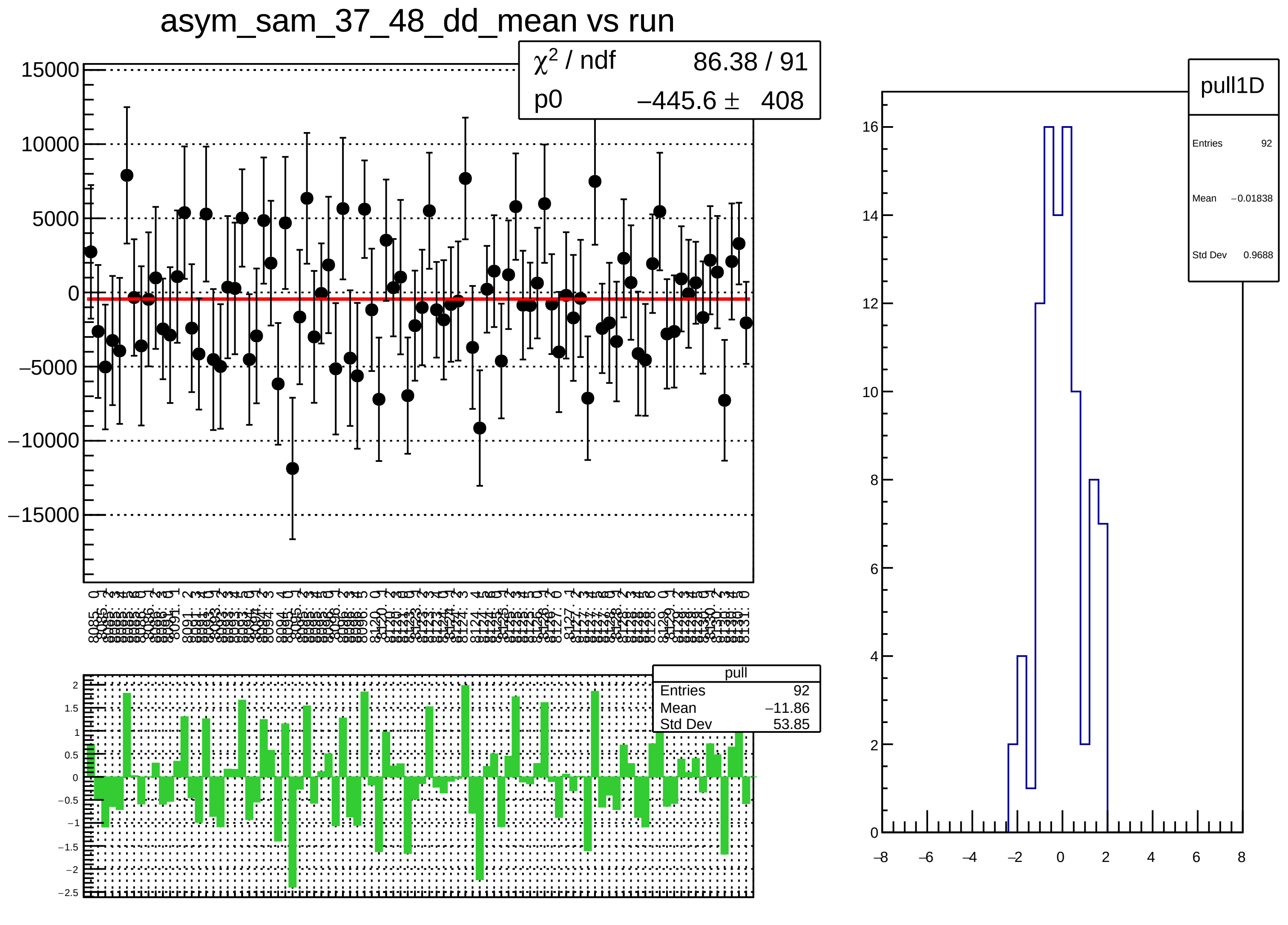

reg_asym_sam_37_48_dd_rms vs run
χ^2 / ndf 5368 / 91
p0 59.58 ± 0.04396



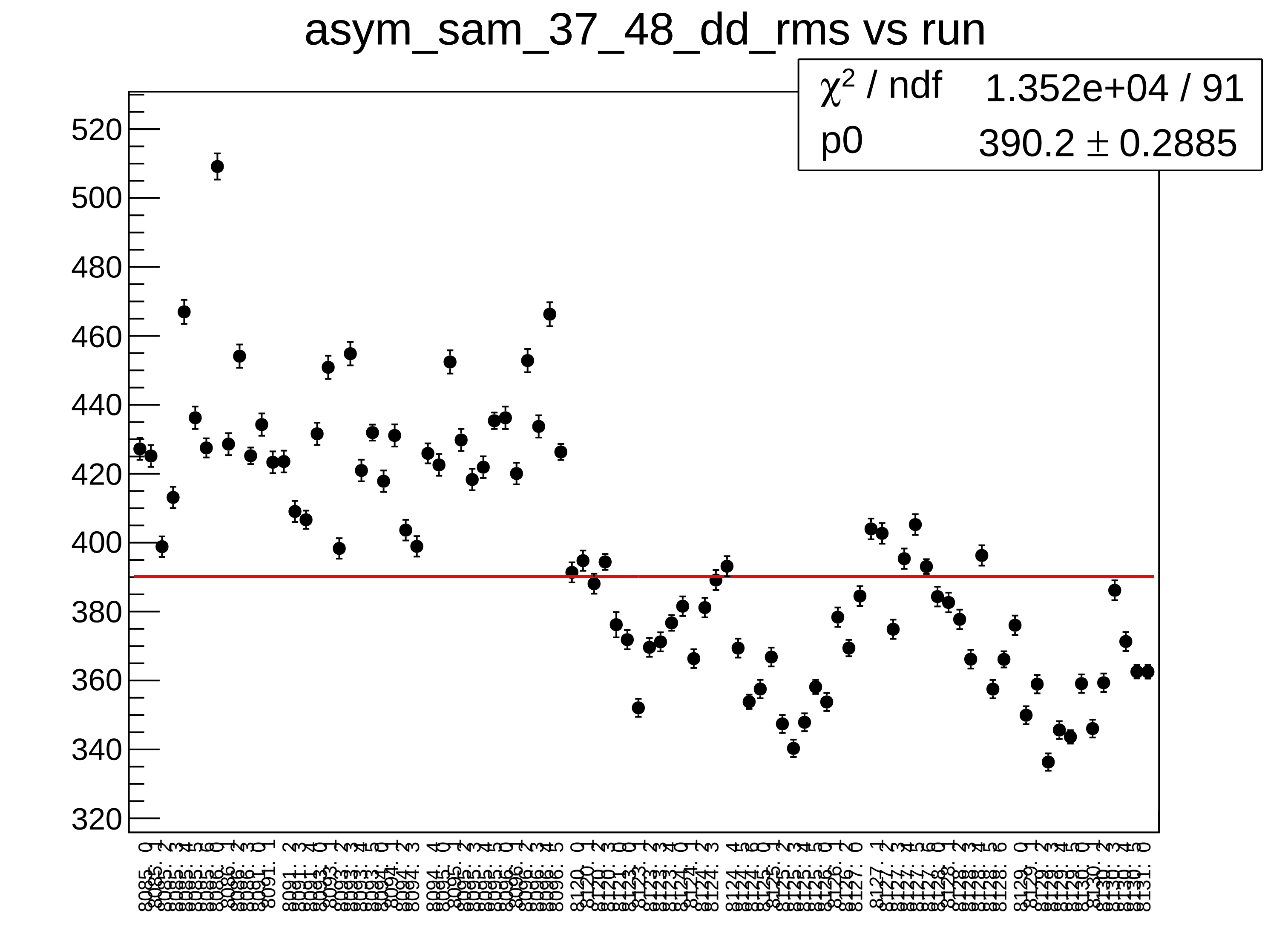
asym_sam_37_48_dd_correction_mean vs run
χ^2 / ndf 85 / 91
p0 287.1 ± 403.1
pull
Entries 92
Mean −7.71
Std Dev 58.4
pull1D
Entries 92
Mean 0.01442
Std Dev 0.9611



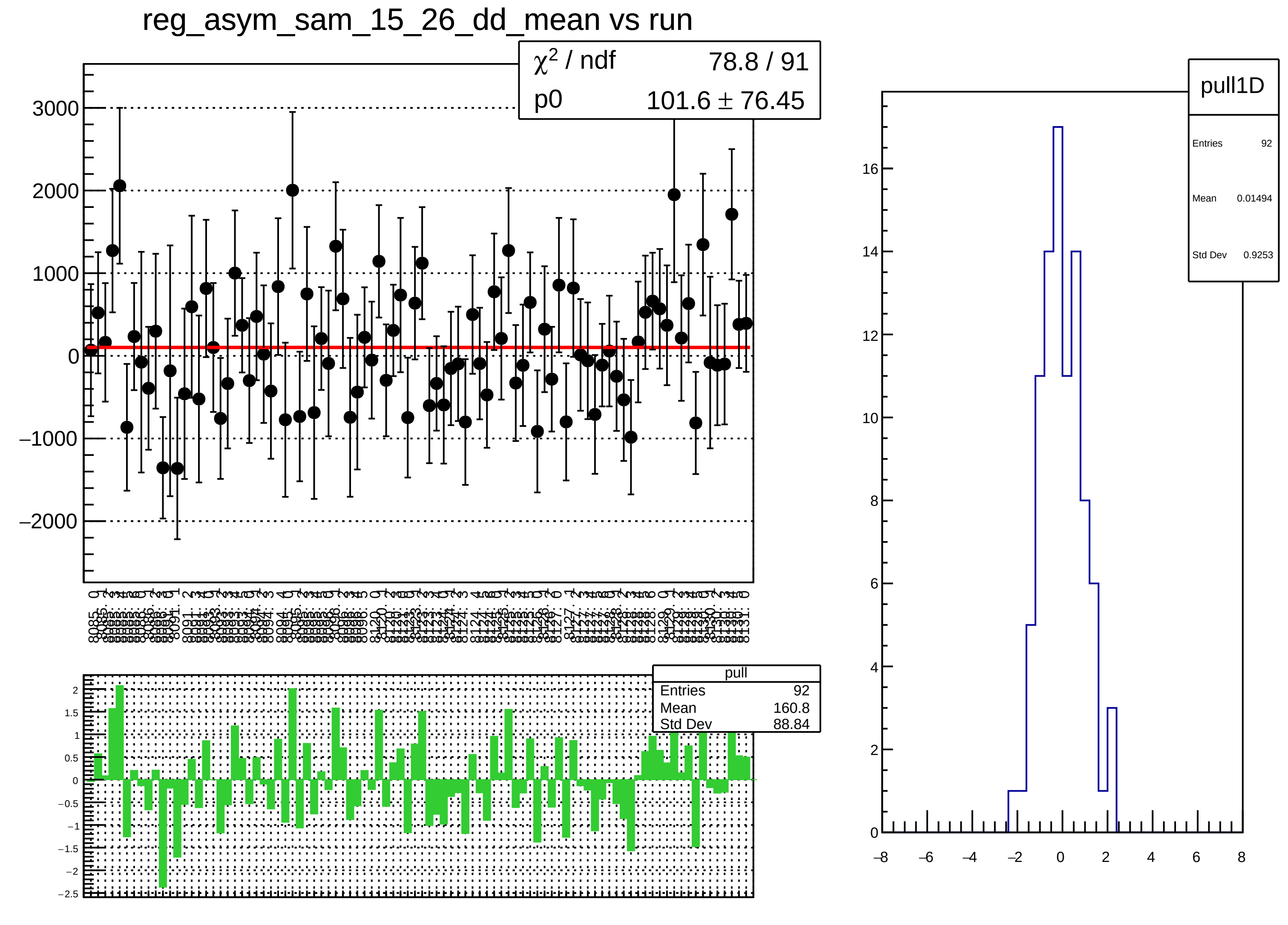
asym_sam_37_48_dd_correction_rms vs run
χ2 / ndf 1.397e+04 / 91
p0 385.5 ± 0.2851
520
500
480
460
440
420
400
380
360
340
320

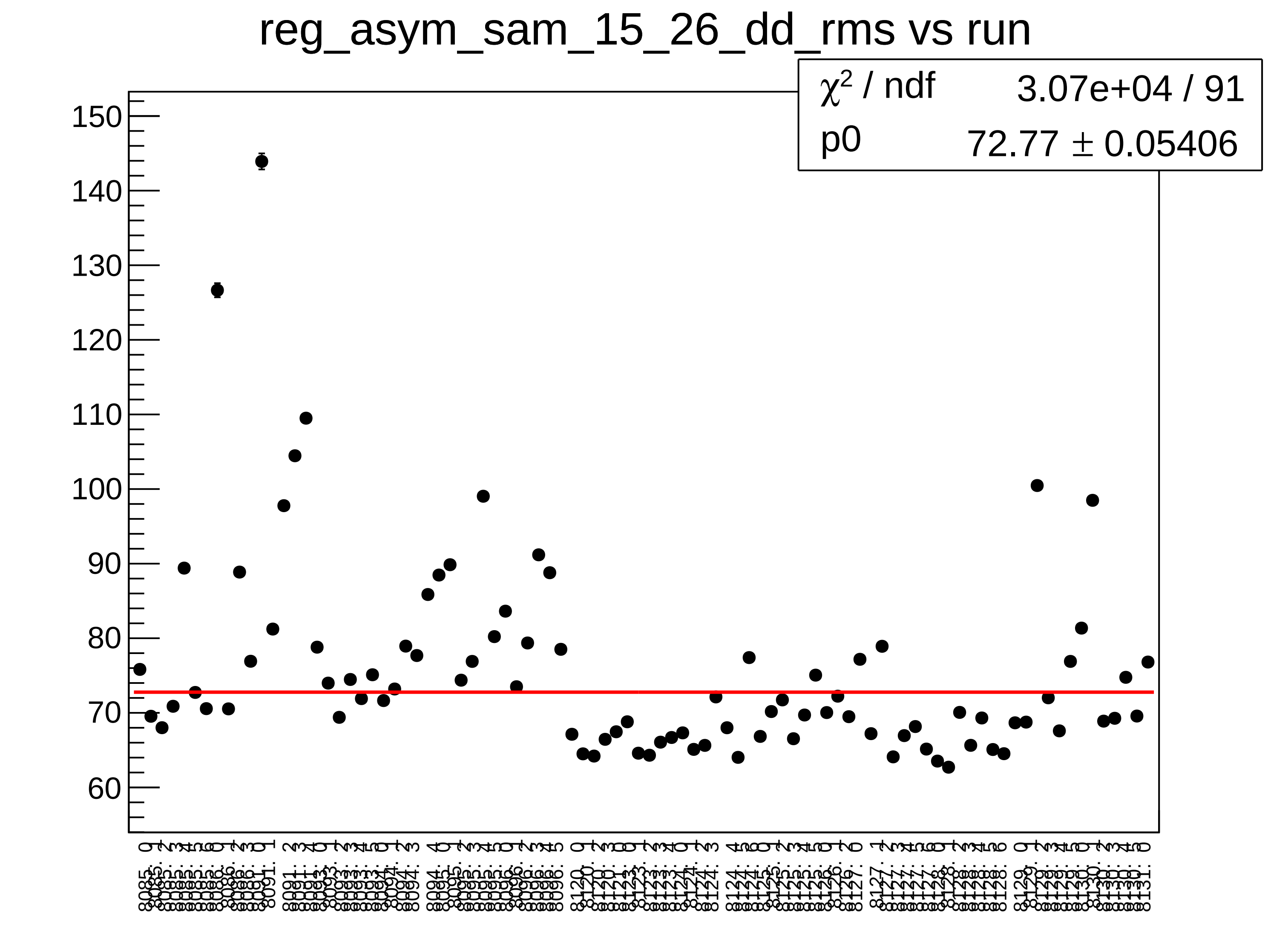


asym_sam_37_48_dd_mean vs run
χ^2 / ndf 86.38 / 91
p0 −445.6 ± 408
pull
Entries 92
Mean −11.86
Std Dev 53.85
pull1D
Entries 92
Mean −0.01838
Std Dev 0.9688

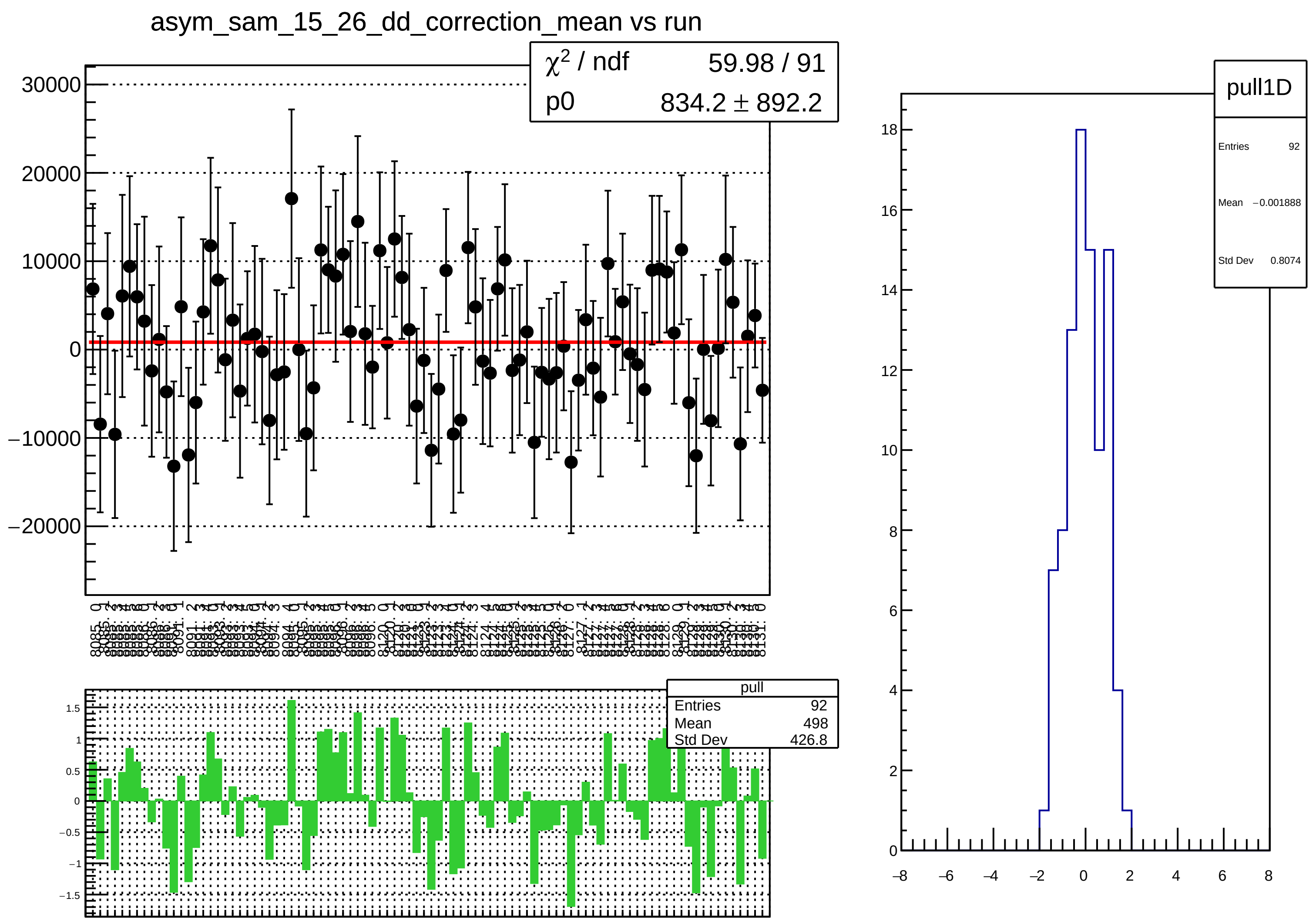


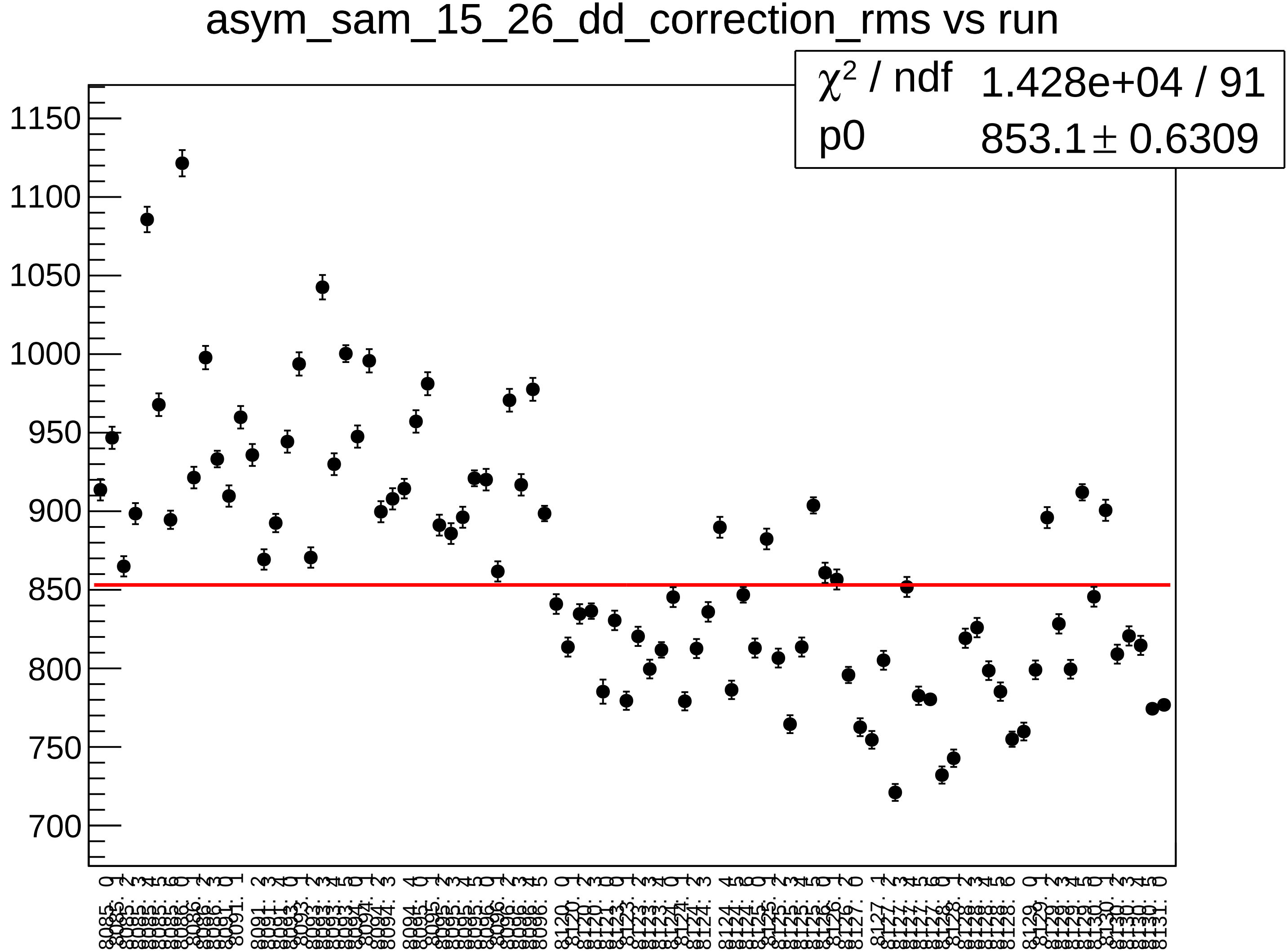
asym_sam_37_48_dd_rms vs run
χ^2 / ndf 1.352e+04 / 91
p0 390.2 ± 0.2885
520
500
480
460
440
420
400
380
360
340
320

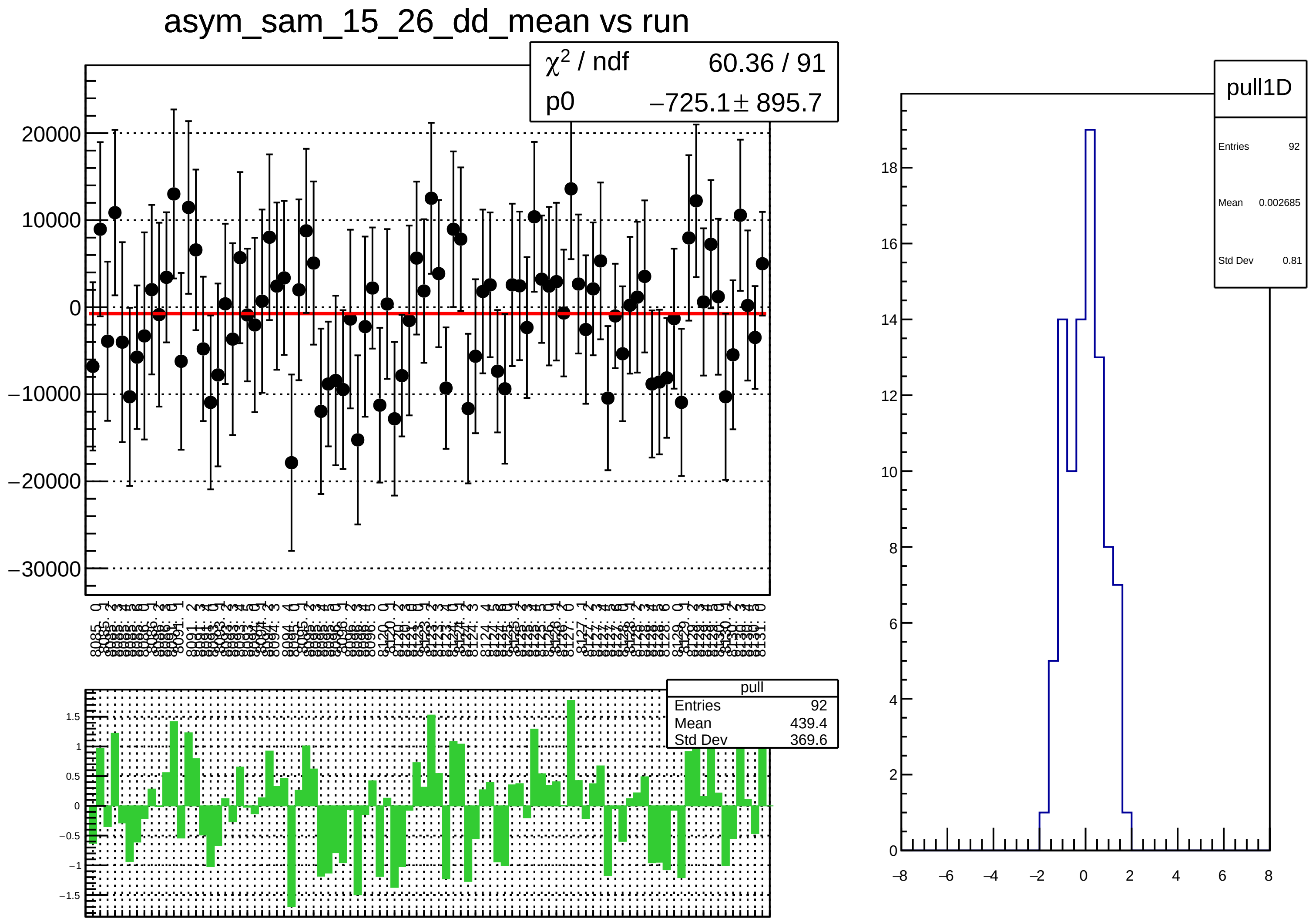

reg_asym_sam_15_26_dd_mean vs run
χ2 / ndf 78.8 / 91
p0 101.6 ± 76.45
pull
Entries 92
Mean 160.8
Std Dev 88.84
pull1D
Entries 92
Mean 0.01494
Std Dev 0.9253



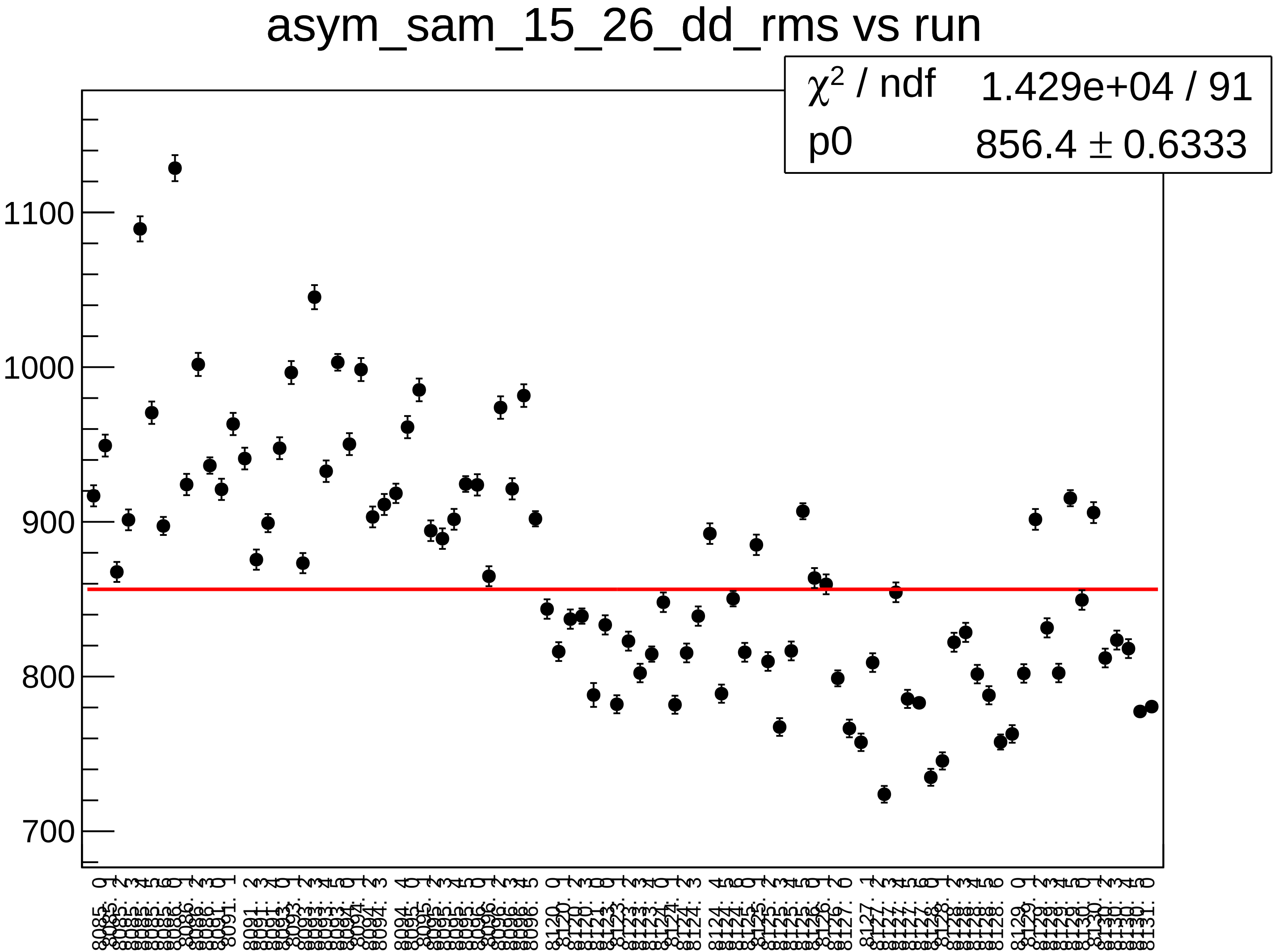
reg_asym_sam_15_26_dd_rms vs run
χ^2 / ndf 3.07e+04 / 91
p0 72.77 ± 0.05406


asym_sam_15_26_dd_correction_mean vs run
χ2 / ndf 59.98 / 91
p0 834.2 ± 892.2
pull
Entries 92
Mean 498
Std Dev 426.8
pull1D
Entries 92
Mean −0.001888
Std Dev 0.8074

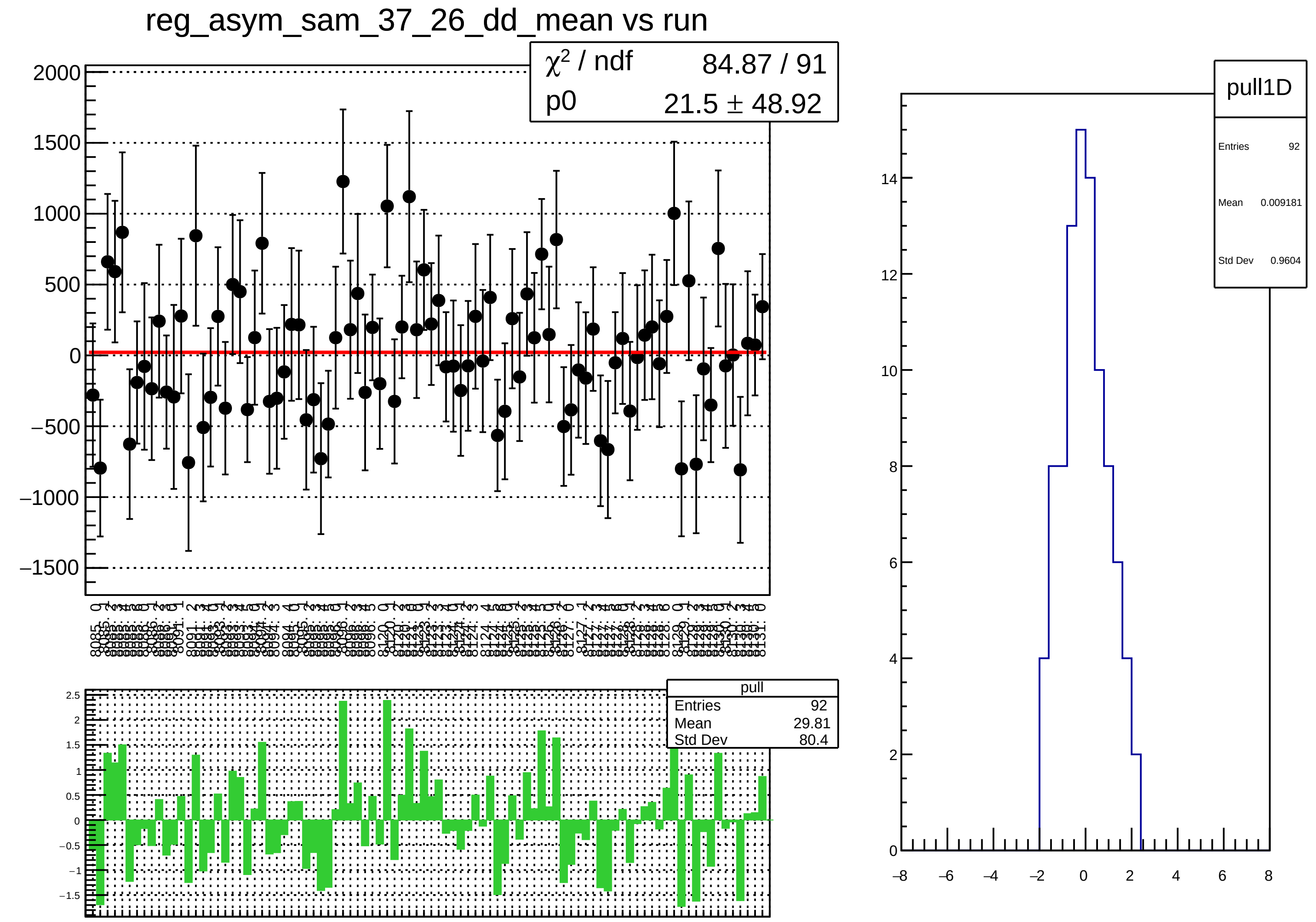

asym_sam_15_26_dd_correction_rms vs run
χ^2 / ndf 1.428e+04 / 91
p0 853.1 ± 0.6309
1150
1100
1050
1000
950
900
850
800
750
700

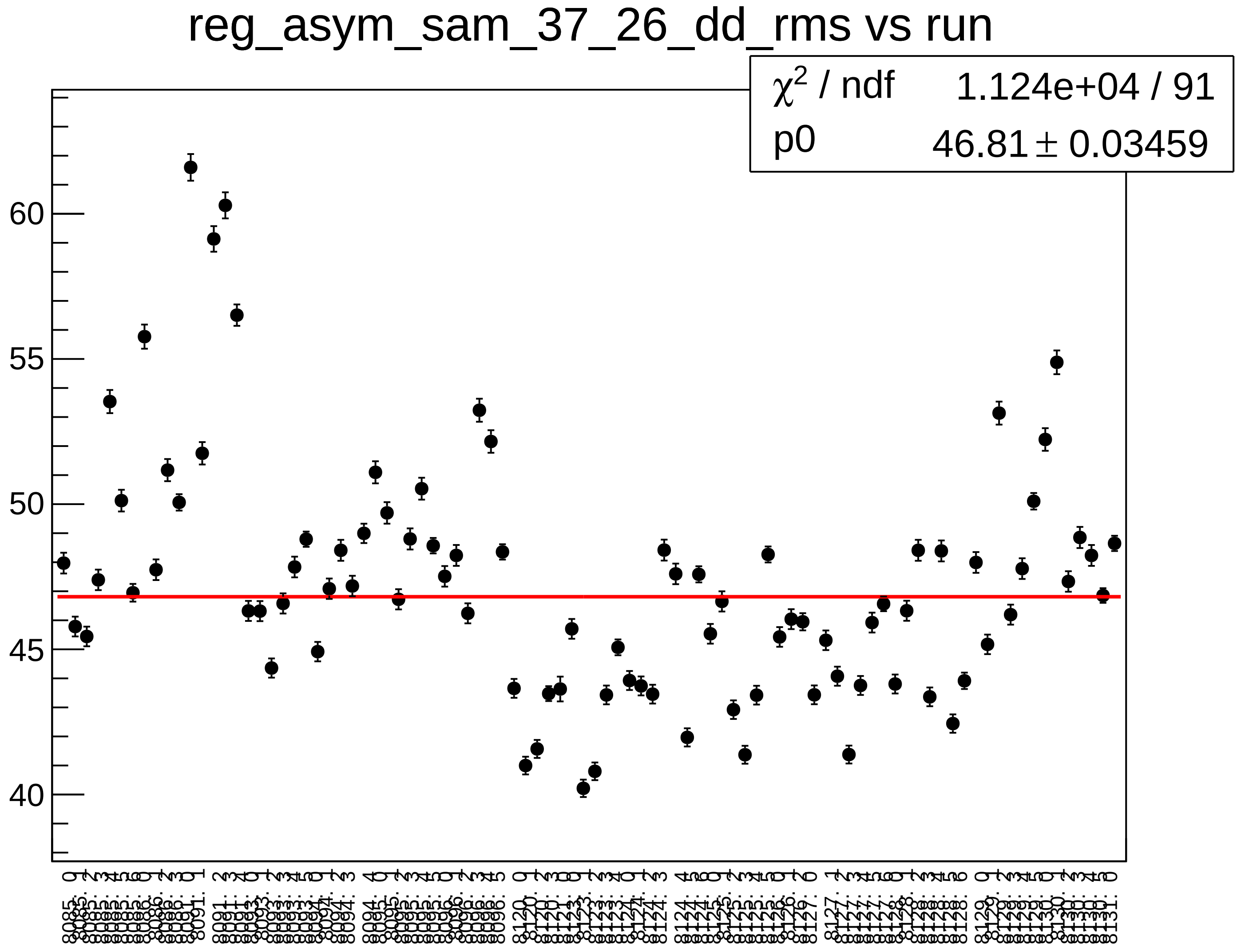


asym_sam_15_26_dd_mean vs run
χ^2 / ndf 60.36 / 91
p0 −725.1 ± 895.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean 439.4
Std Dev 369.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean 0.002685
Std Dev 0.81
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

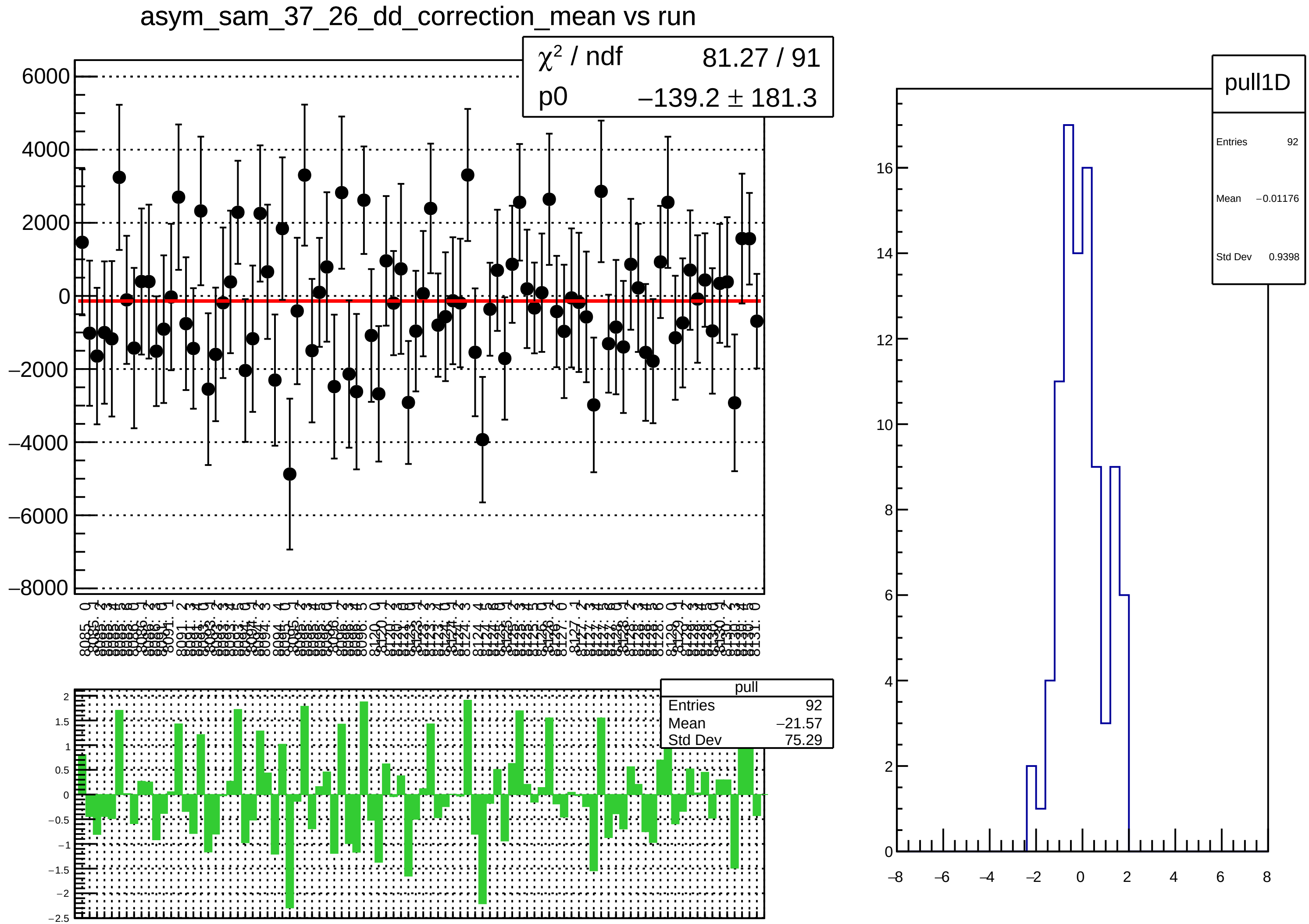


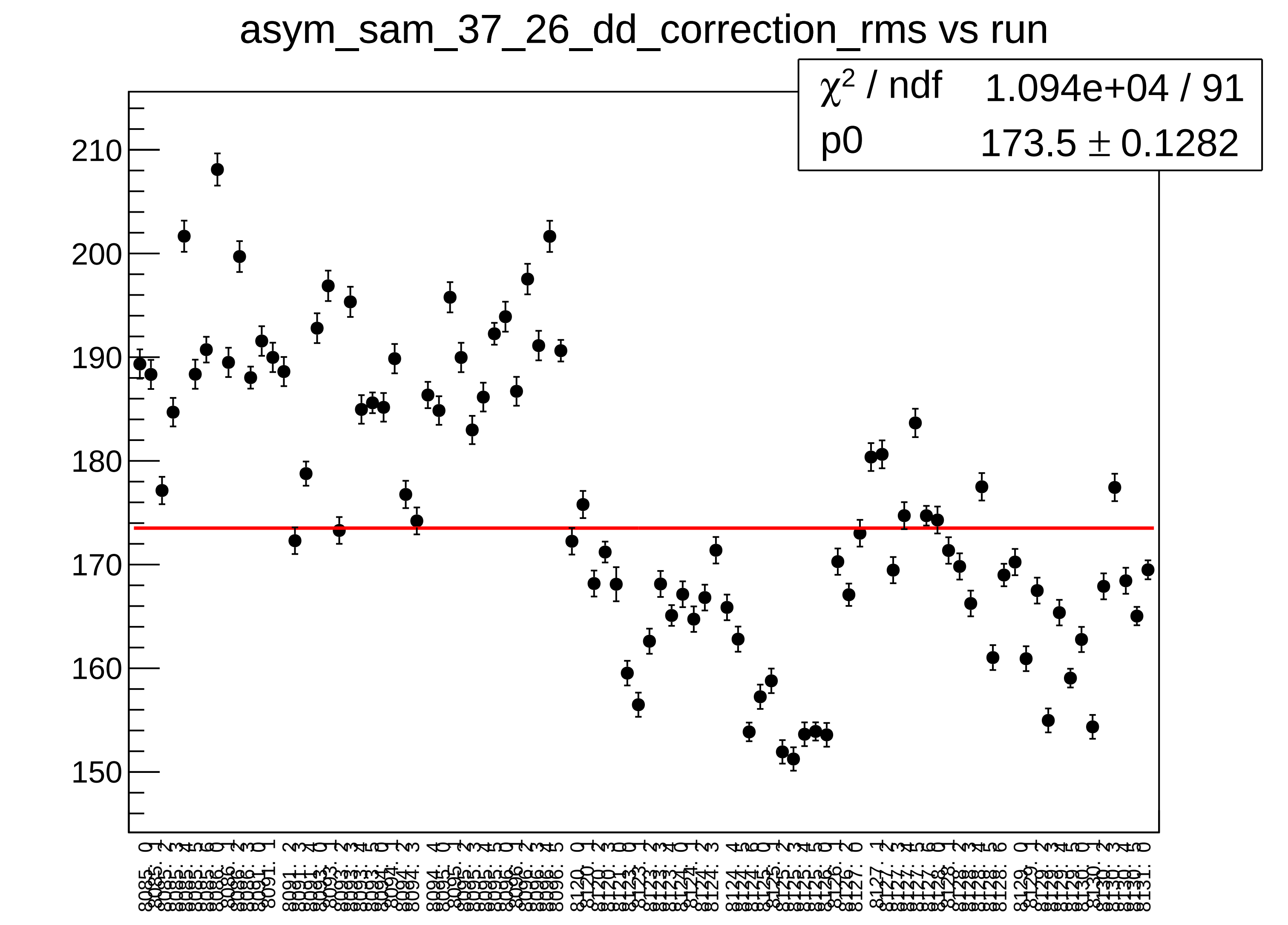
asym_sam_15_26_dd_rms vs run
χ^2 / ndf 1.429e+04 / 91
p0 856.4 ± 0.6333
1100
1000
900
800
700


reg_asym_sam_37_26_dd_mean vs run
χ2 / ndf 84.87 / 91
p0 21.5 ± 48.92
pull
Entries 92
Mean 29.81
Std Dev 80.4
pull1D
Entries 92
Mean 0.009181
Std Dev 0.9604

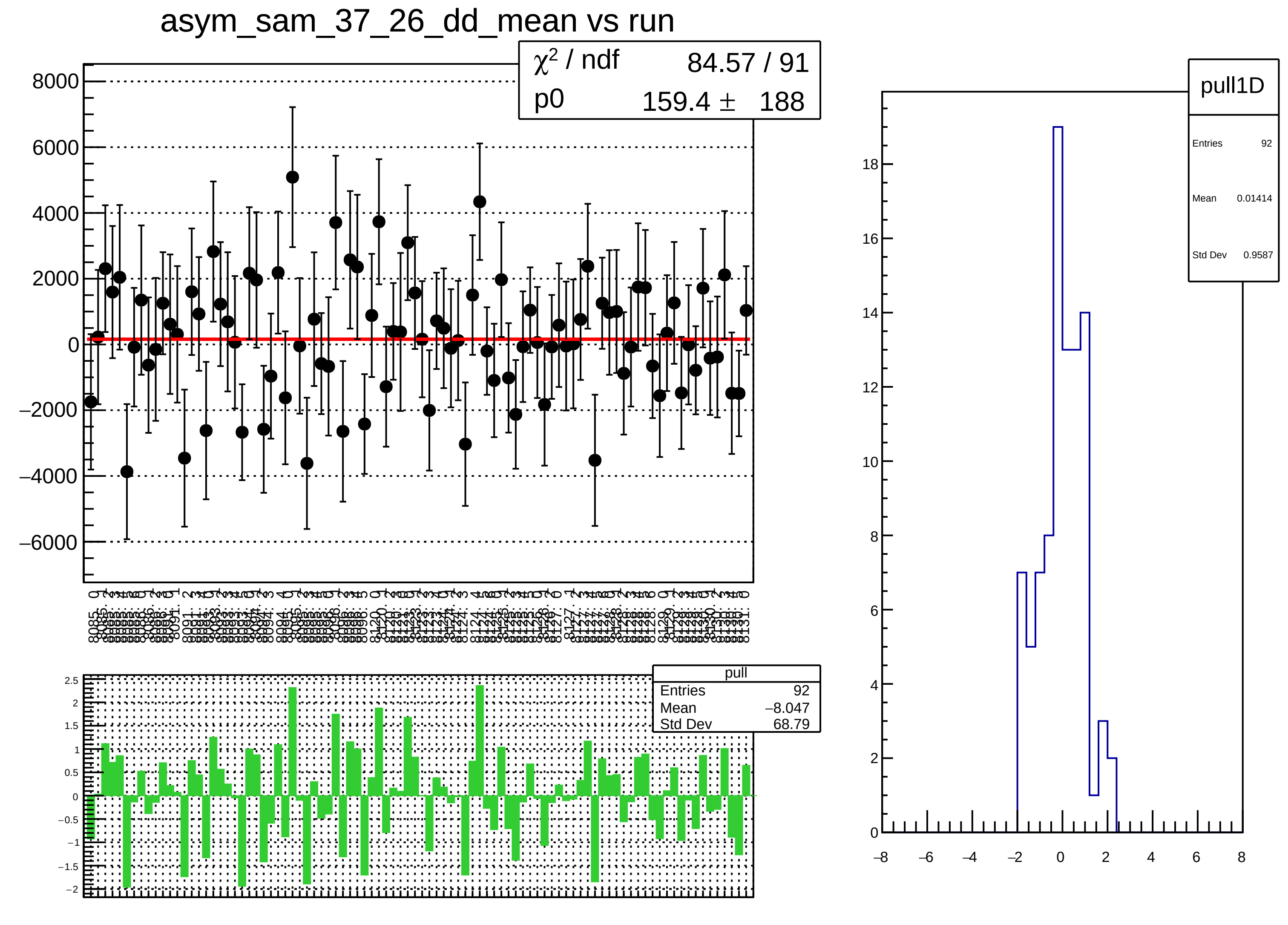


reg_asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.124e+04 / 91
p0 46.81 ± 0.03459
60
55
50
45
40

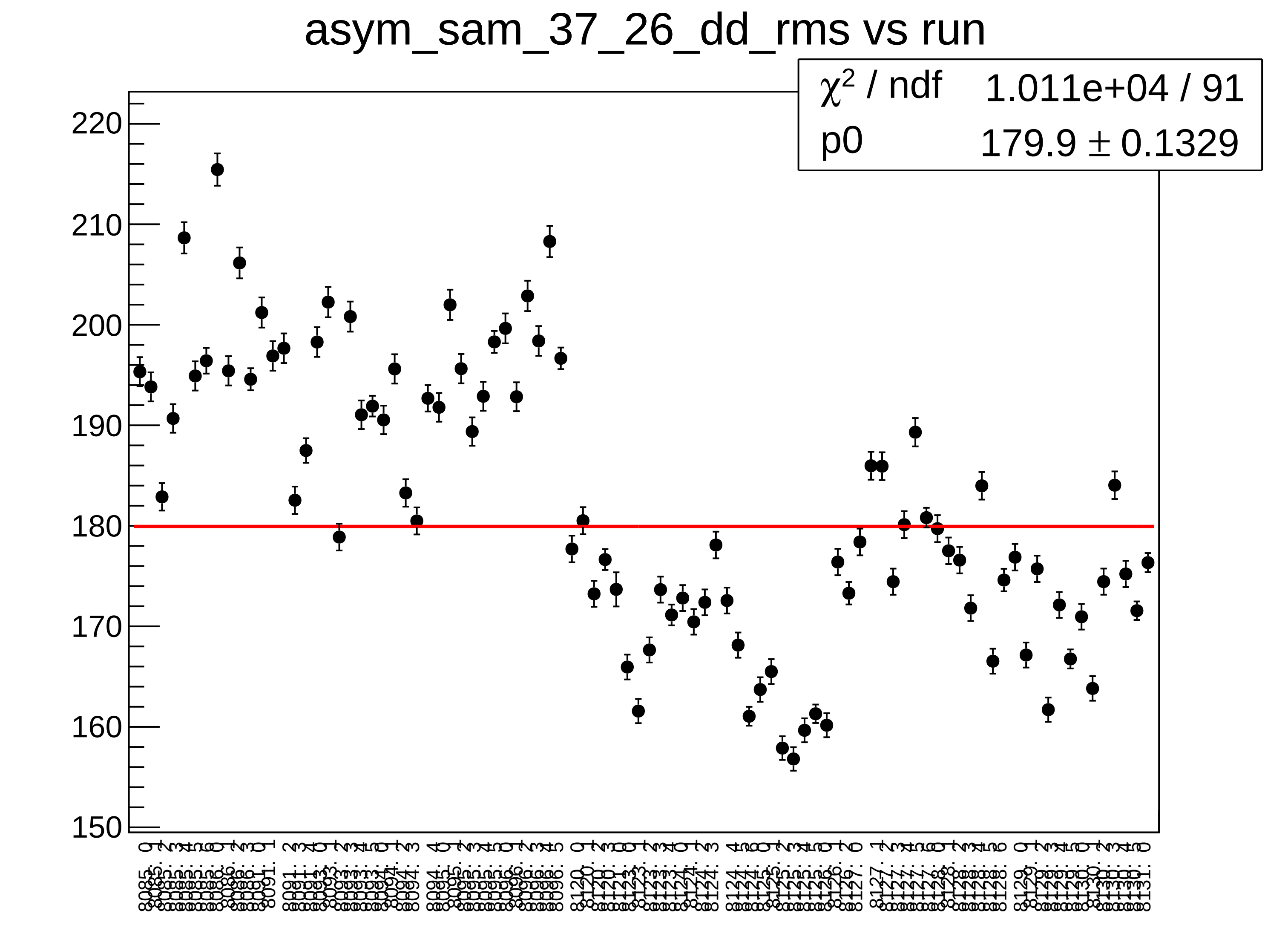

asym_sam_37_26_dd_correction_mean vs run
χ^2 / ndf 81.27 / 91
p0 −139.2 ± 181.3
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 92
Mean −21.57
Std Dev 75.29
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 92
Mean −0.01176
Std Dev 0.9398
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

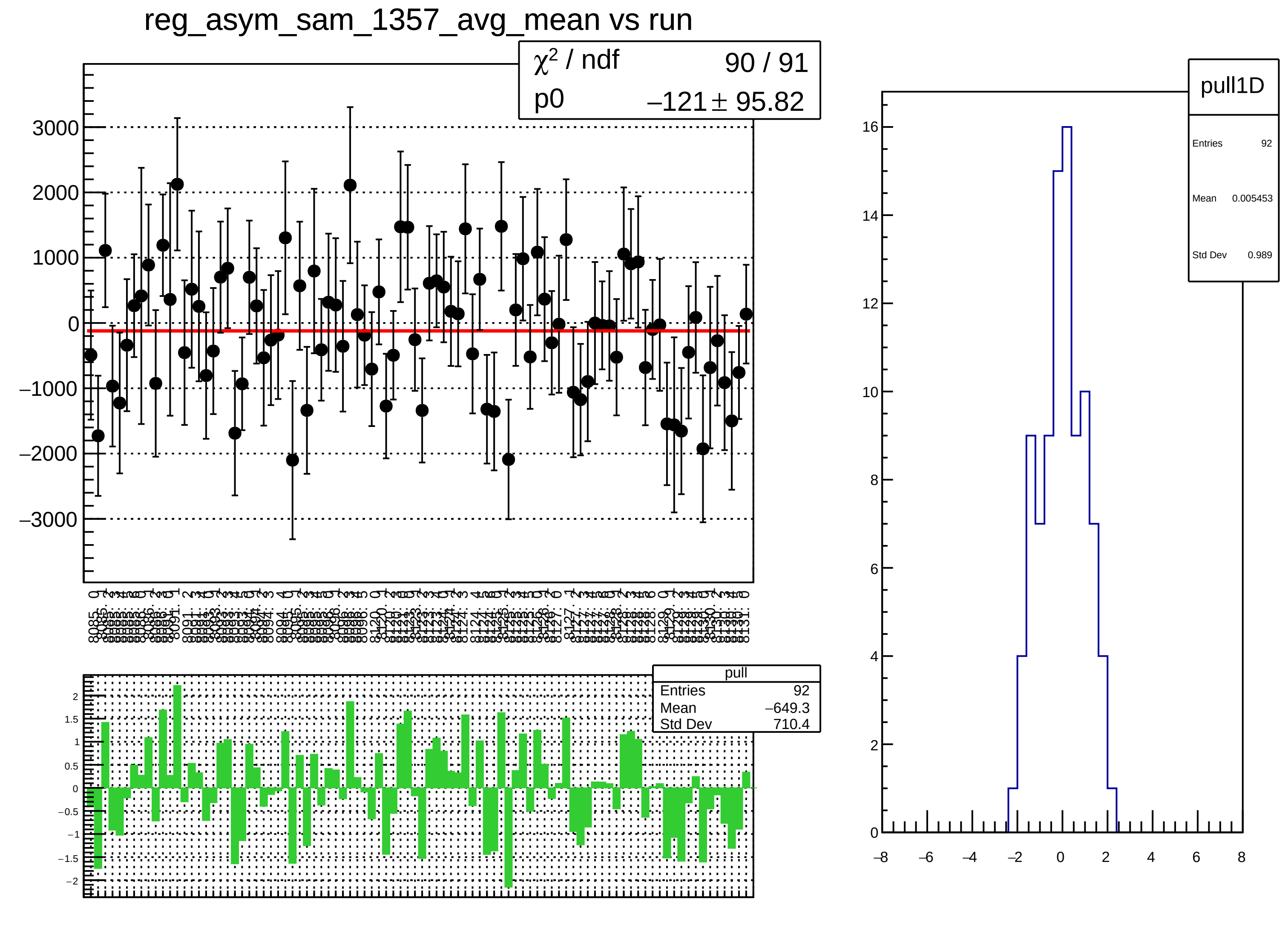


asym_sam_37_26_dd_correction_rms vs run
χ^2 / ndf 1.094e+04 / 91
p0 173.5 ± 0.1282
210
200
190
180
170
160
150

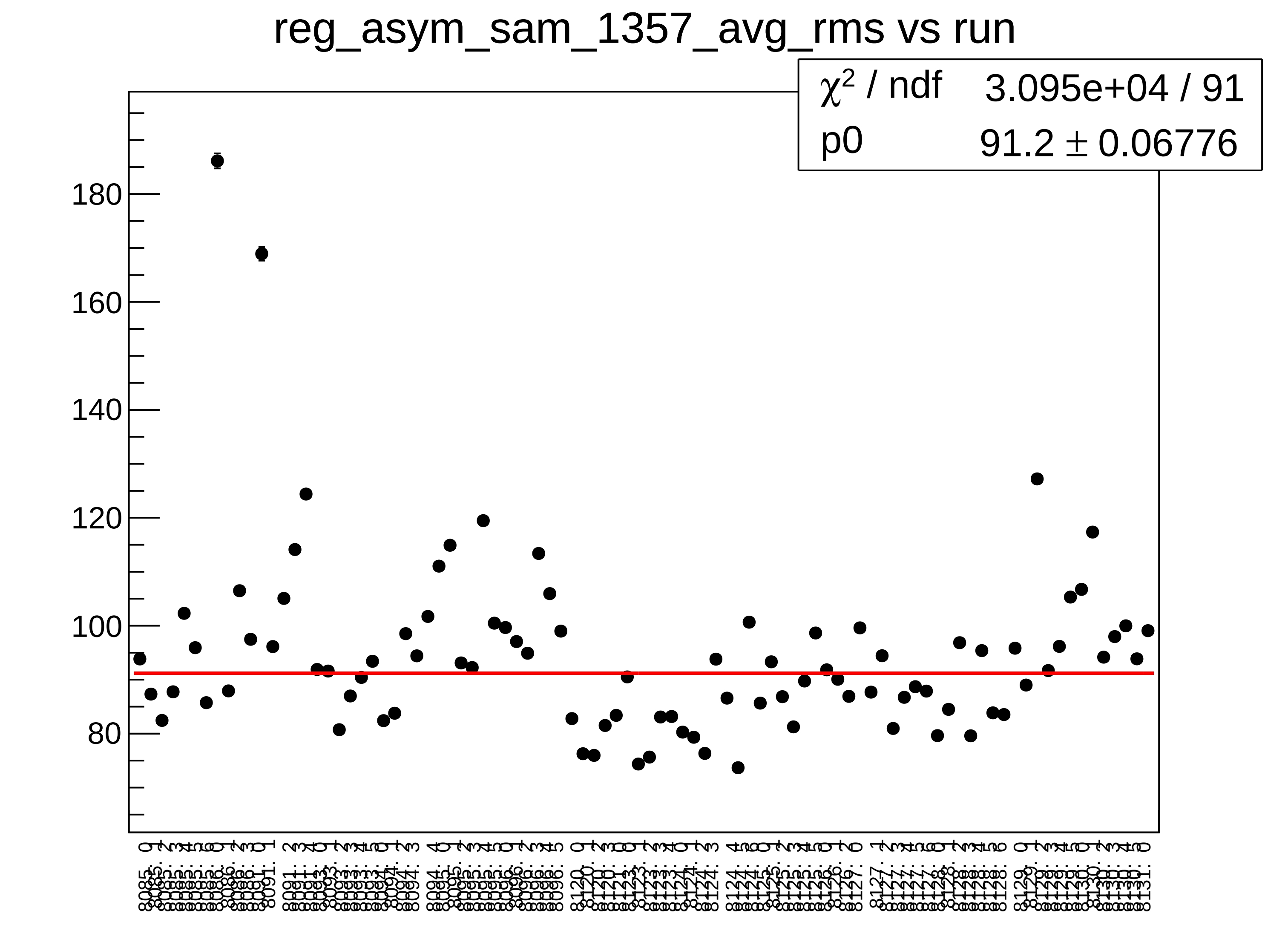


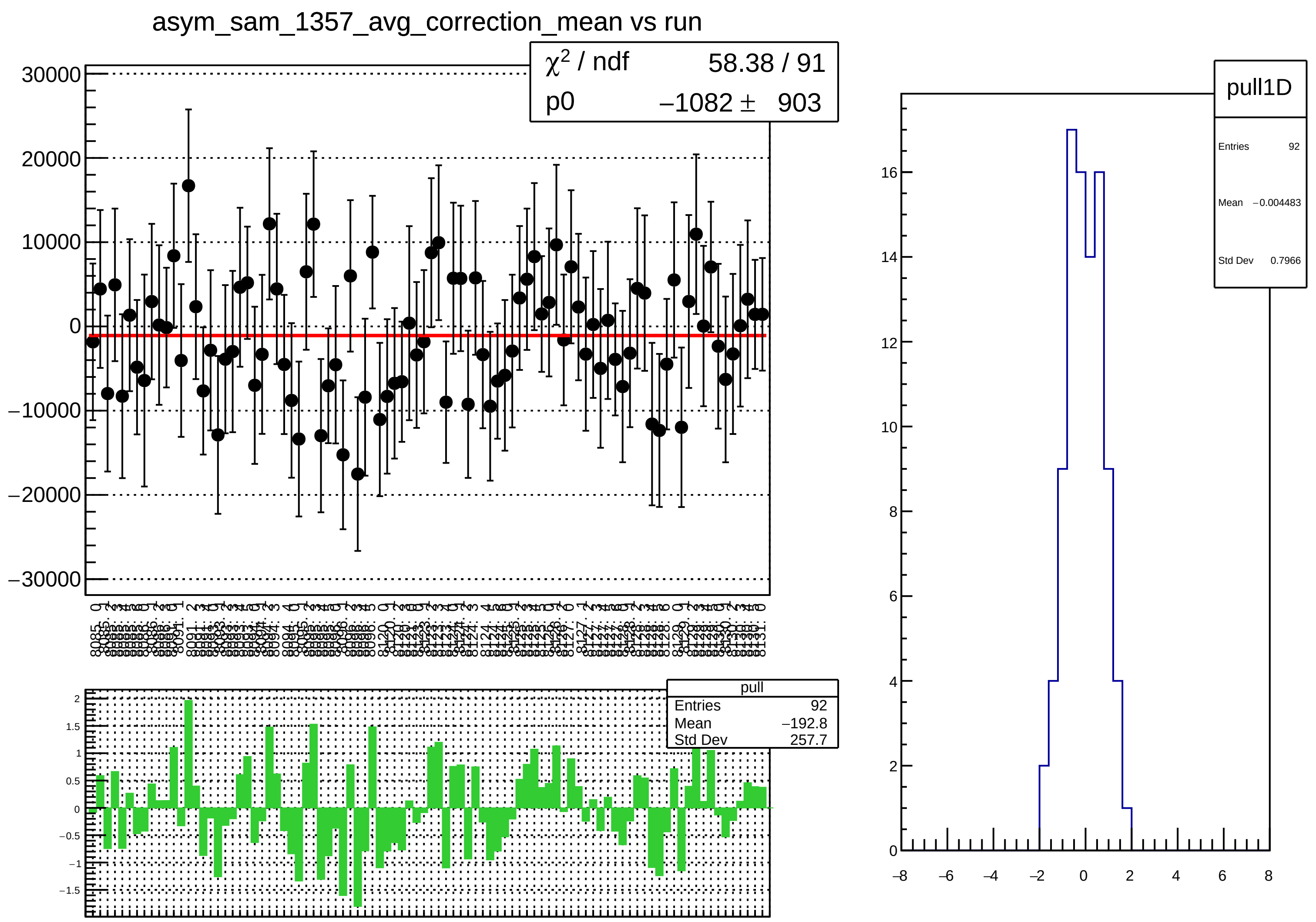
asym_sam_37_26_dd_mean vs run
χ^2 / ndf 84.57 / 91
p0 159.4 ± 188
pull
Entries 92
Mean −8.047
Std Dev 68.79
pull1D
Entries 92
Mean 0.01414
Std Dev 0.9587


asym_sam_37_26_dd_rms vs run
χ^2 / ndf 1.011e+04 / 91
p0 179.9 ± 0.1329



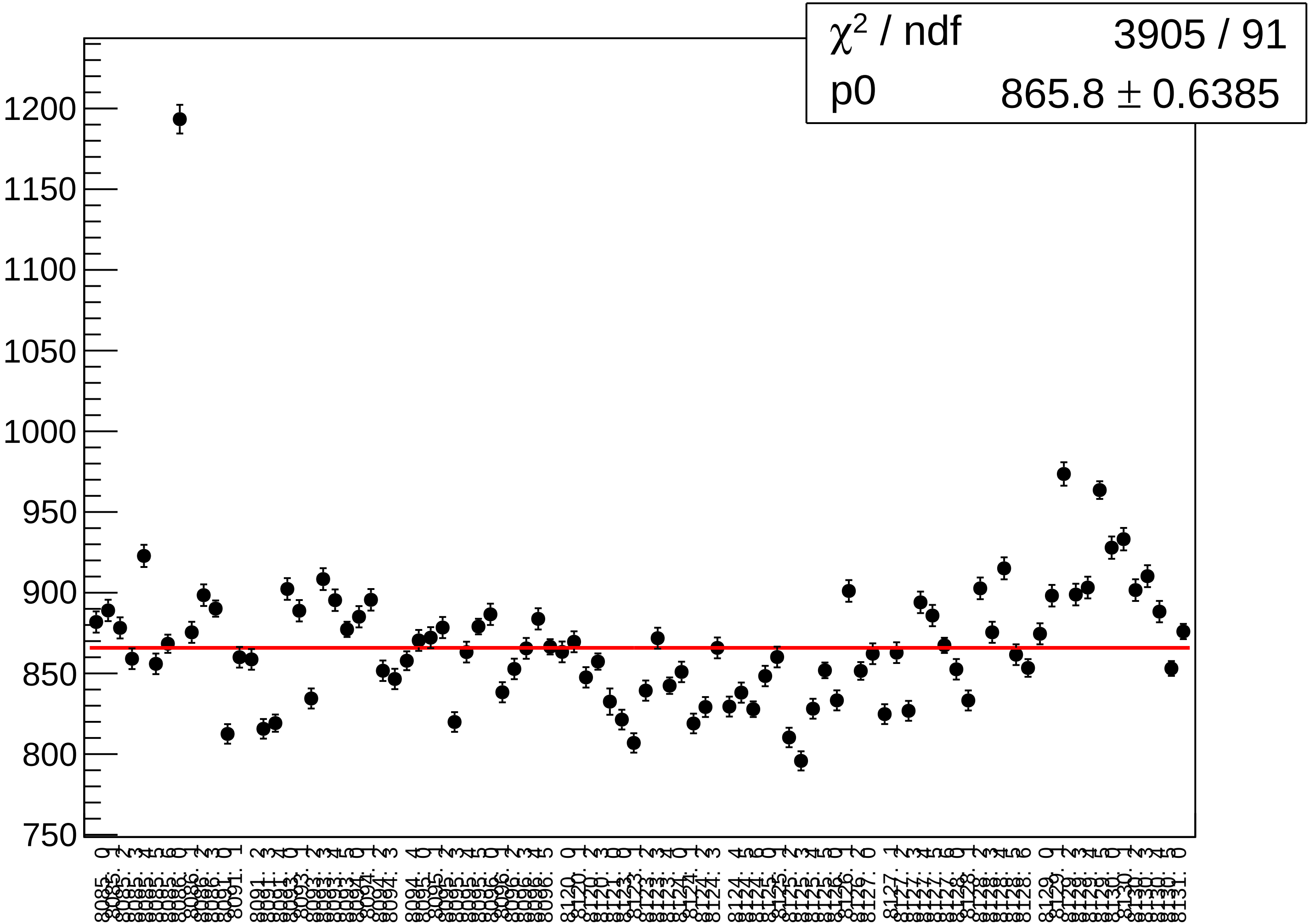
reg_asym_sam_1357_avg_mean vs run
χ^2 / ndf 90 / 91
p0 −121 ± 95.82
pull
Entries 92
Mean −649.3
Std Dev 710.4
pull1D
Entries 92
Mean 0.005453
Std Dev 0.989

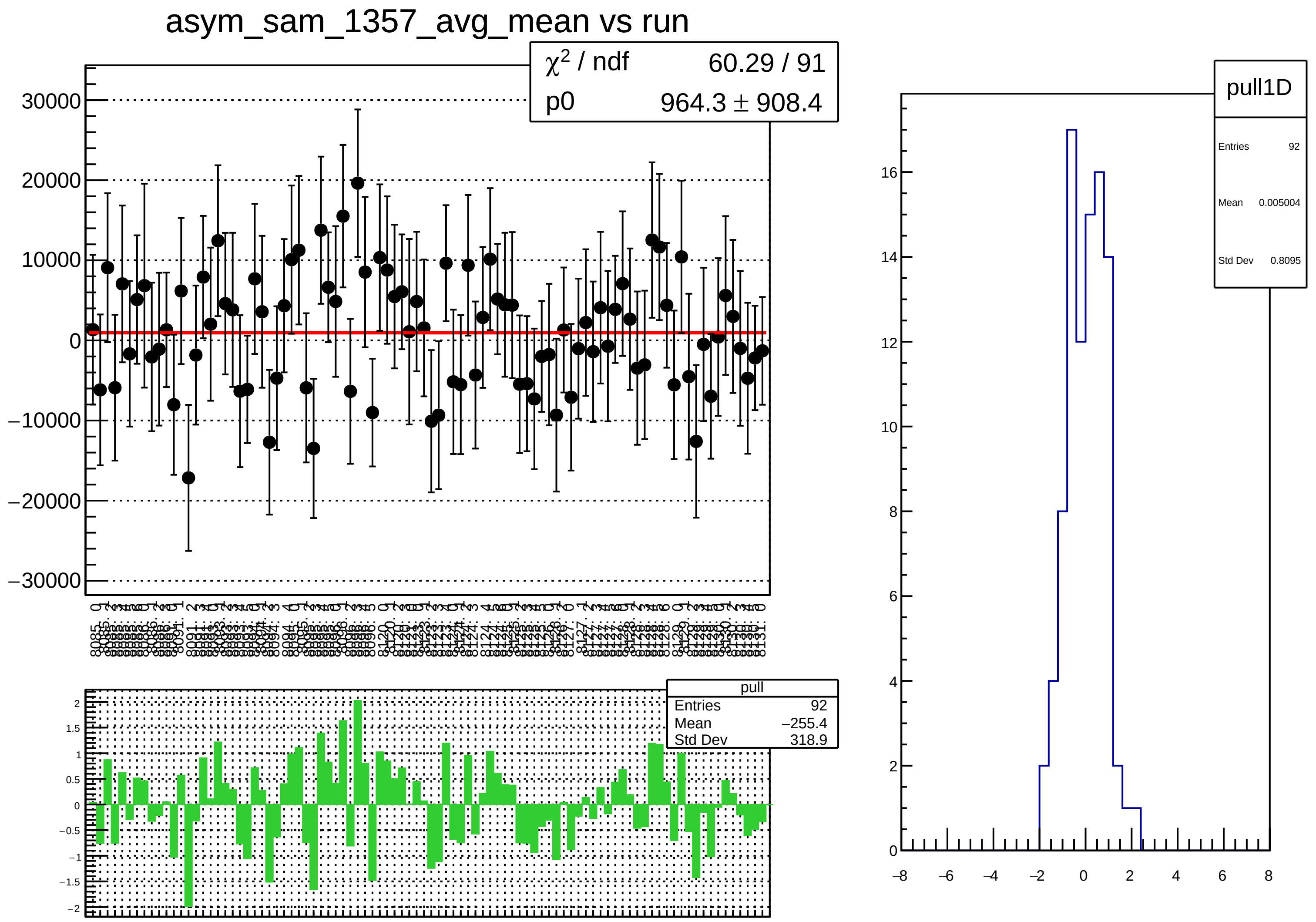

reg_asym_sam_1357_avg_rms vs run
χ^2 / ndf 3.095e+04 / 91
p0 91.2 ± 0.06776
180
160
140
120
100
80



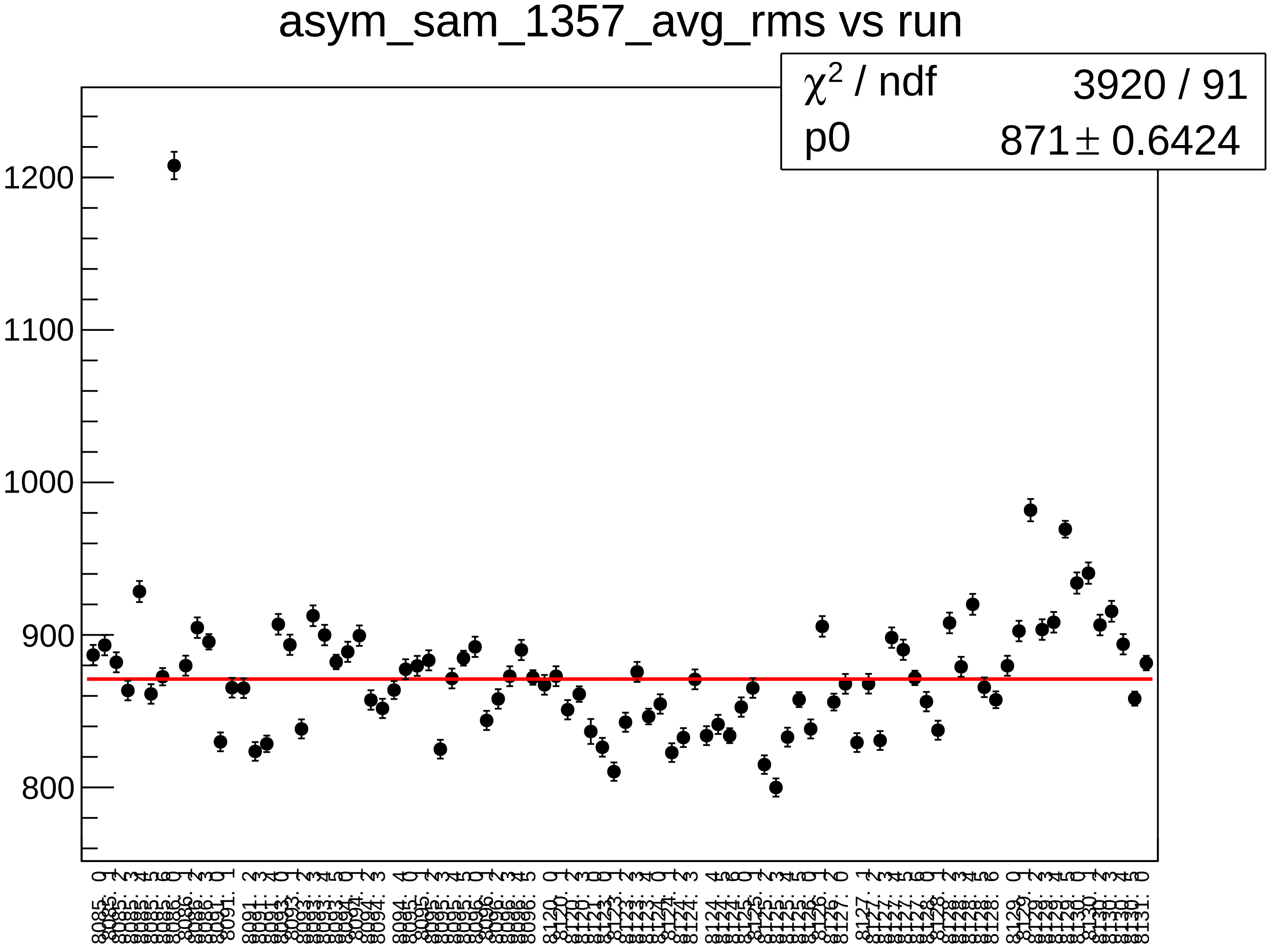
asym_sam_1357_avg_correction_mean vs run
χ^2 / ndf 58.38 / 91
p0 −1082 ± 903
pull
Entries 92
Mean −192.8
Std Dev 257.7
pull1D
Entries 92
Mean −0.004483
Std Dev 0.7966

asym_sam_1357_avg_correction_rms vs run

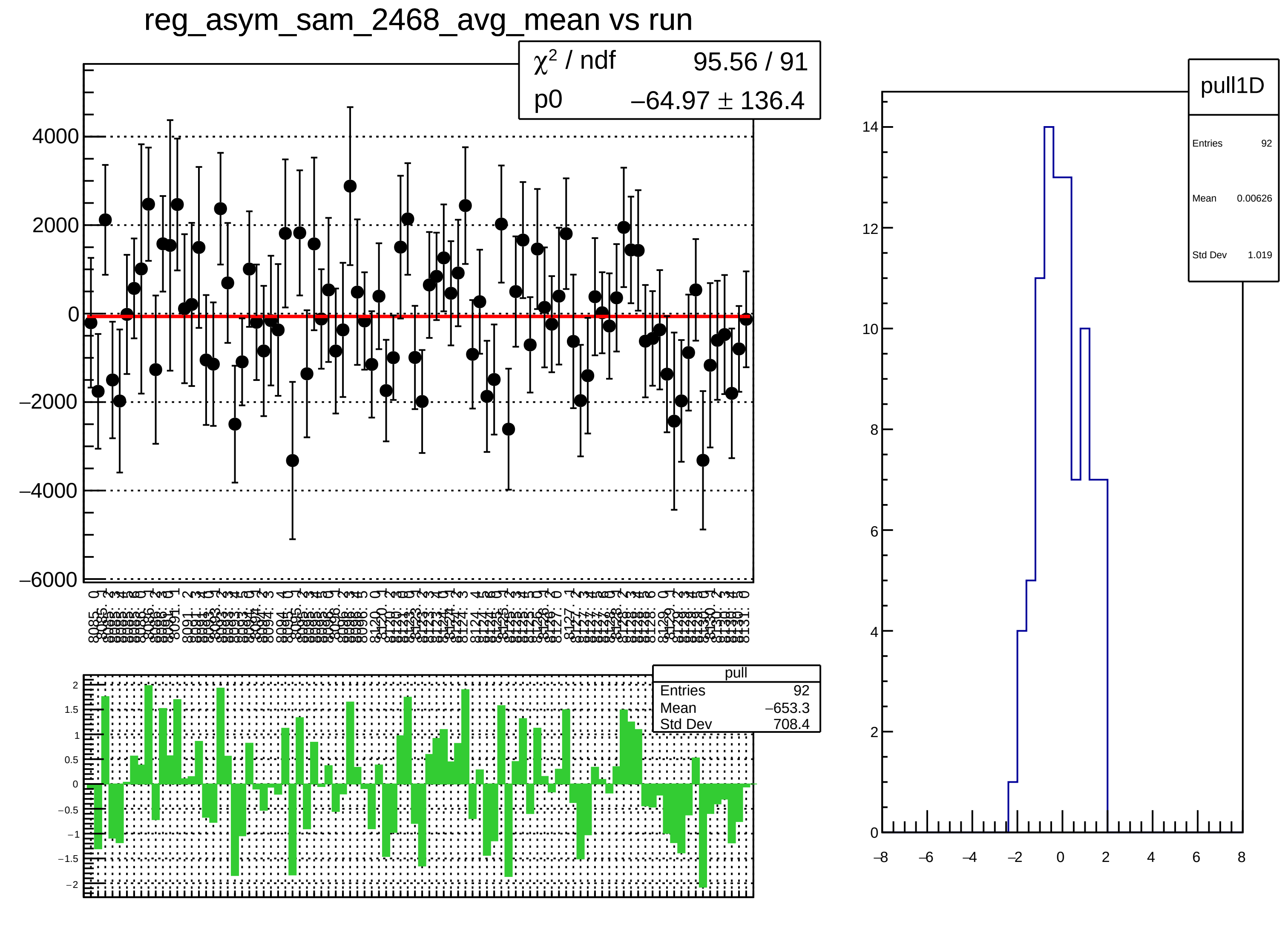




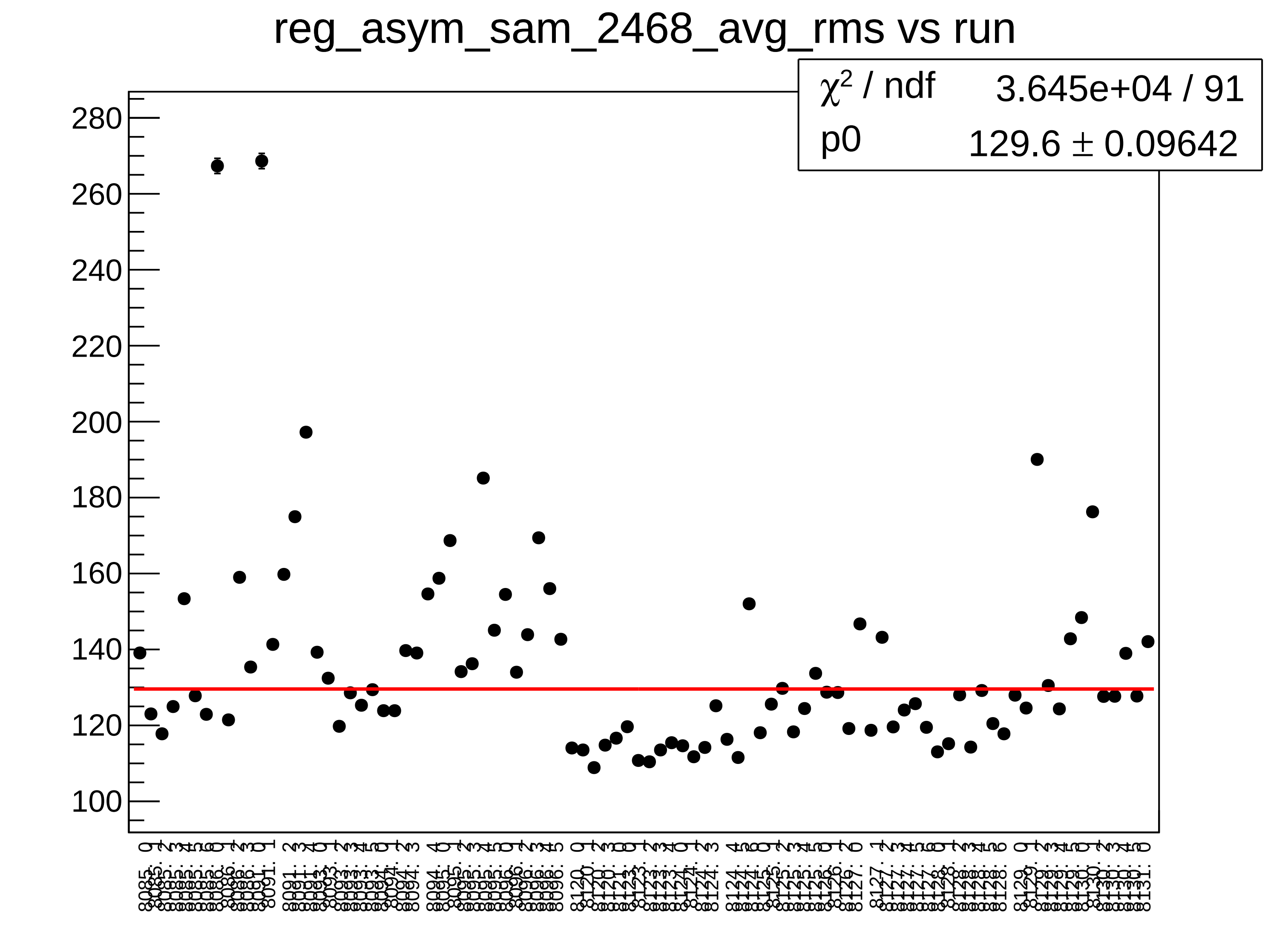
asym_sam_1357_avg_mean vs run
χ^2 / ndf 60.29 / 91
p0 964.3 ± 908.4
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 92
Mean −255.4
Std Dev 318.9
pull1D
Entries 92
Mean 0.005004
Std Dev 0.8095



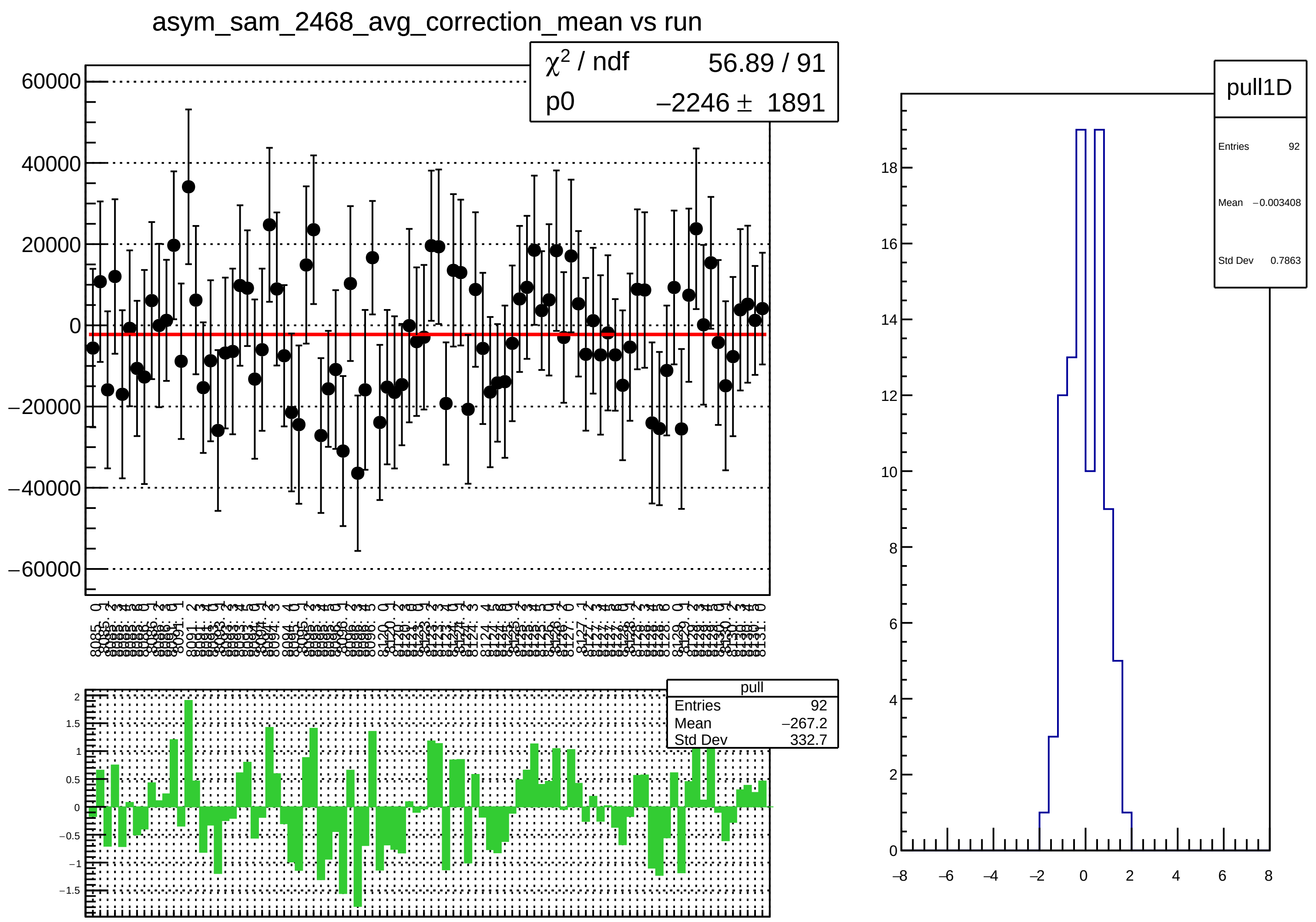
asym_sam_1357_avg_rms vs run
χ^2 / ndf 3920 / 91
p0 871 ± 0.6424
1200
1100
1000
900
800



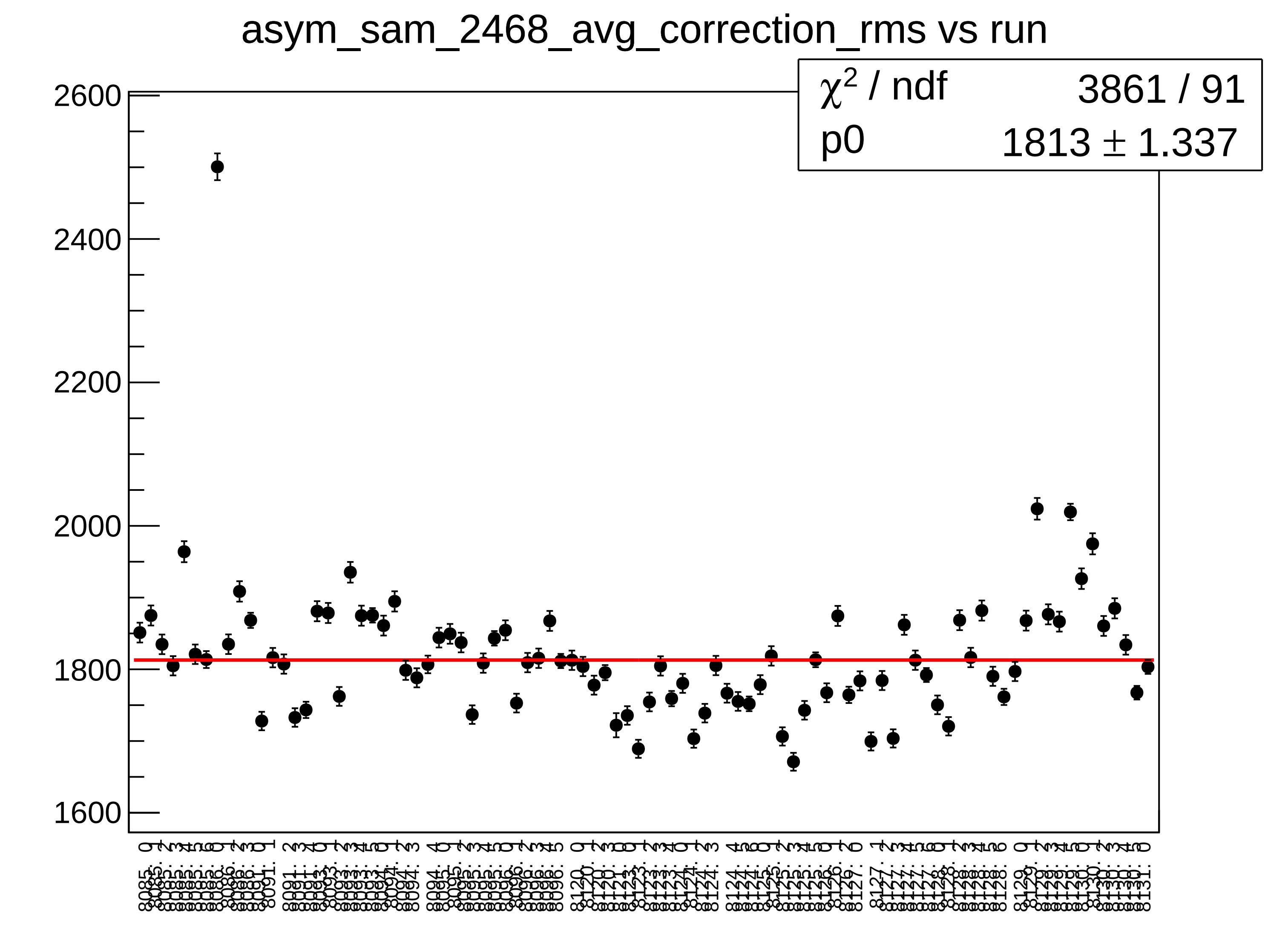
reg_asym_sam_2468_avg_mean vs run
χ^2 / ndf 95.56 / 91
p0 −64.97 ± 136.4
pull
Entries 92
Mean −653.3
Std Dev 708.4
pull1D
Entries 92
Mean 0.00626
Std Dev 1.019



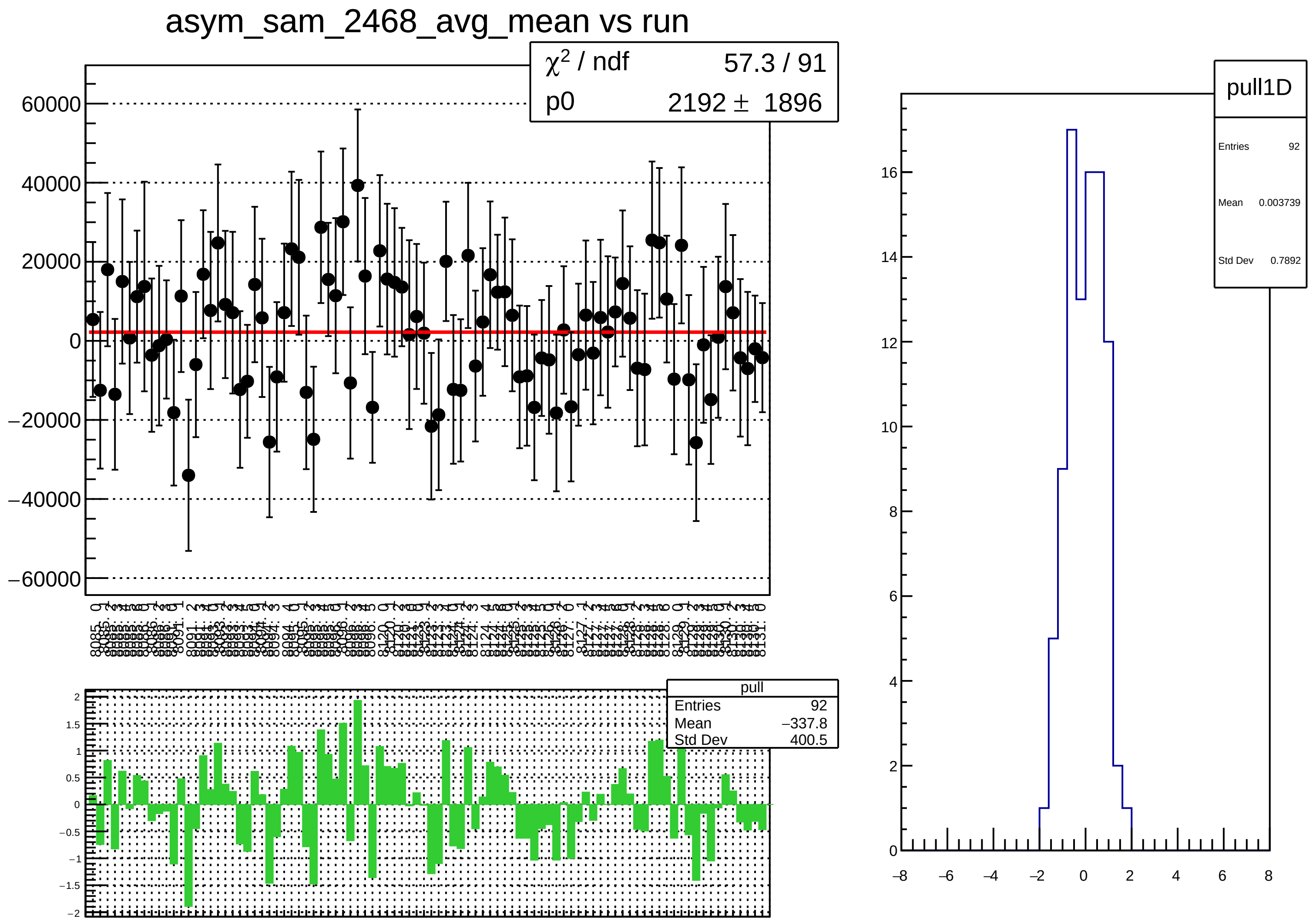
reg_asym_sam_2468_avg_rms vs run
χ2 / ndf 3.645e+04 / 91
p0 129.6 ± 0.09642
280
260
240
220
200
180
160
140
120
100



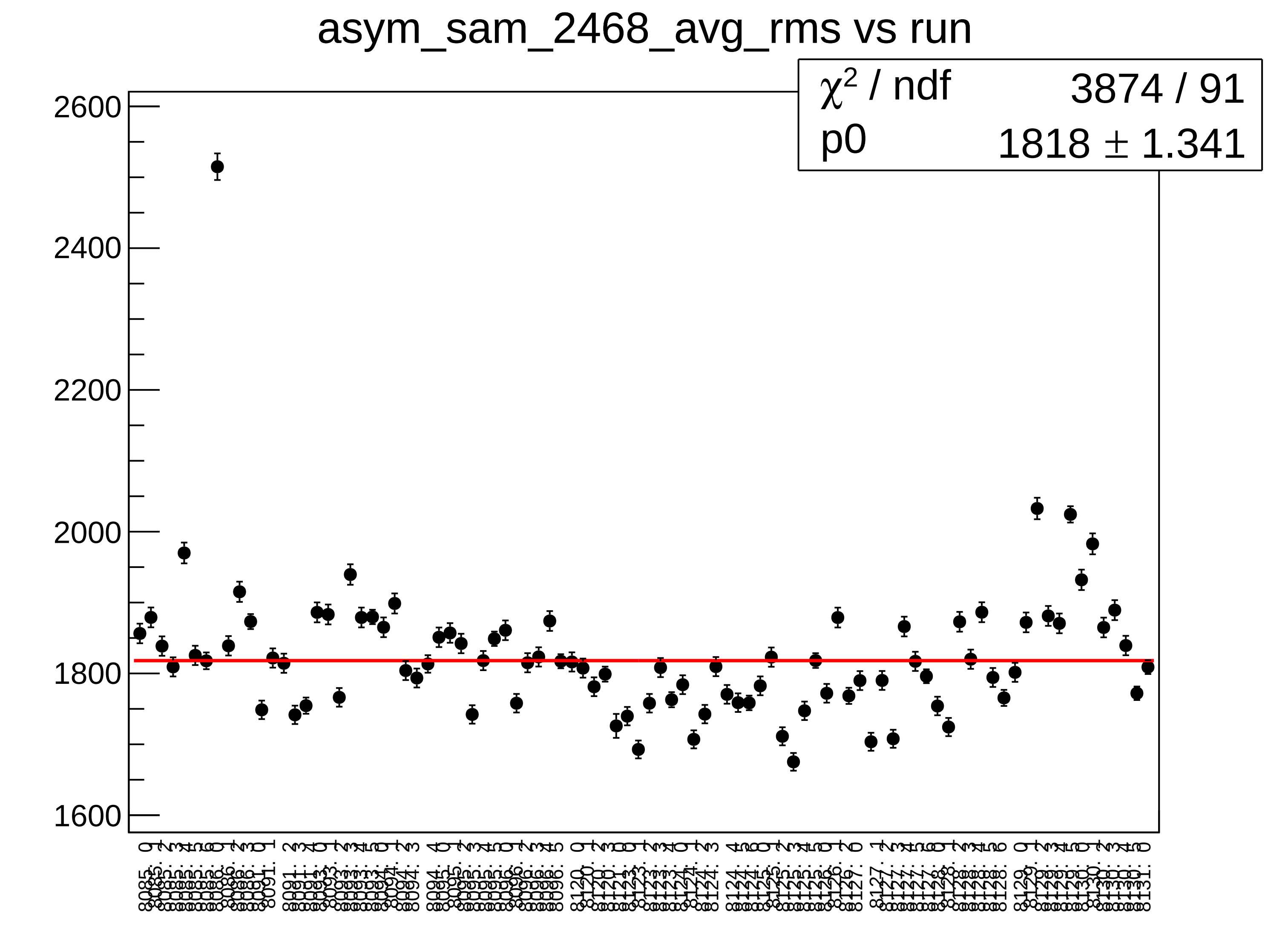
asym_sam_2468_avg_correction_mean vs run
χ^2 / ndf 56.89 / 91
p0 −2246 ± 1891
pull
Entries 92
Mean −267.2
Std Dev 332.7
pull1D
Entries 92
Mean −0.003408
Std Dev 0.7863



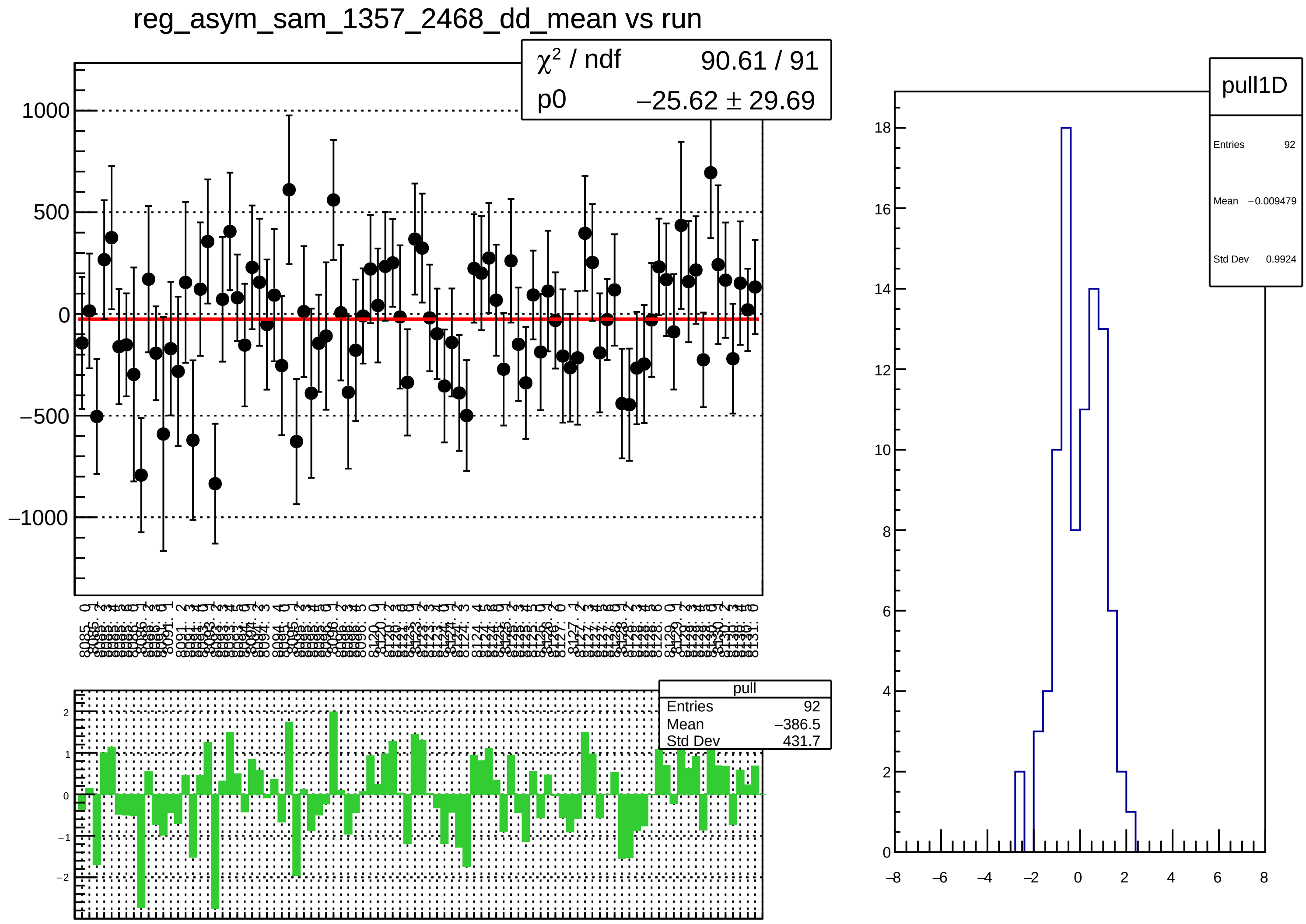
asym_sam_2468_avg_correction_rms vs run
χ^2 / ndf 3861 / 91
p0 1813 ± 1.337
2600
2400
2200
2000
1800
1600



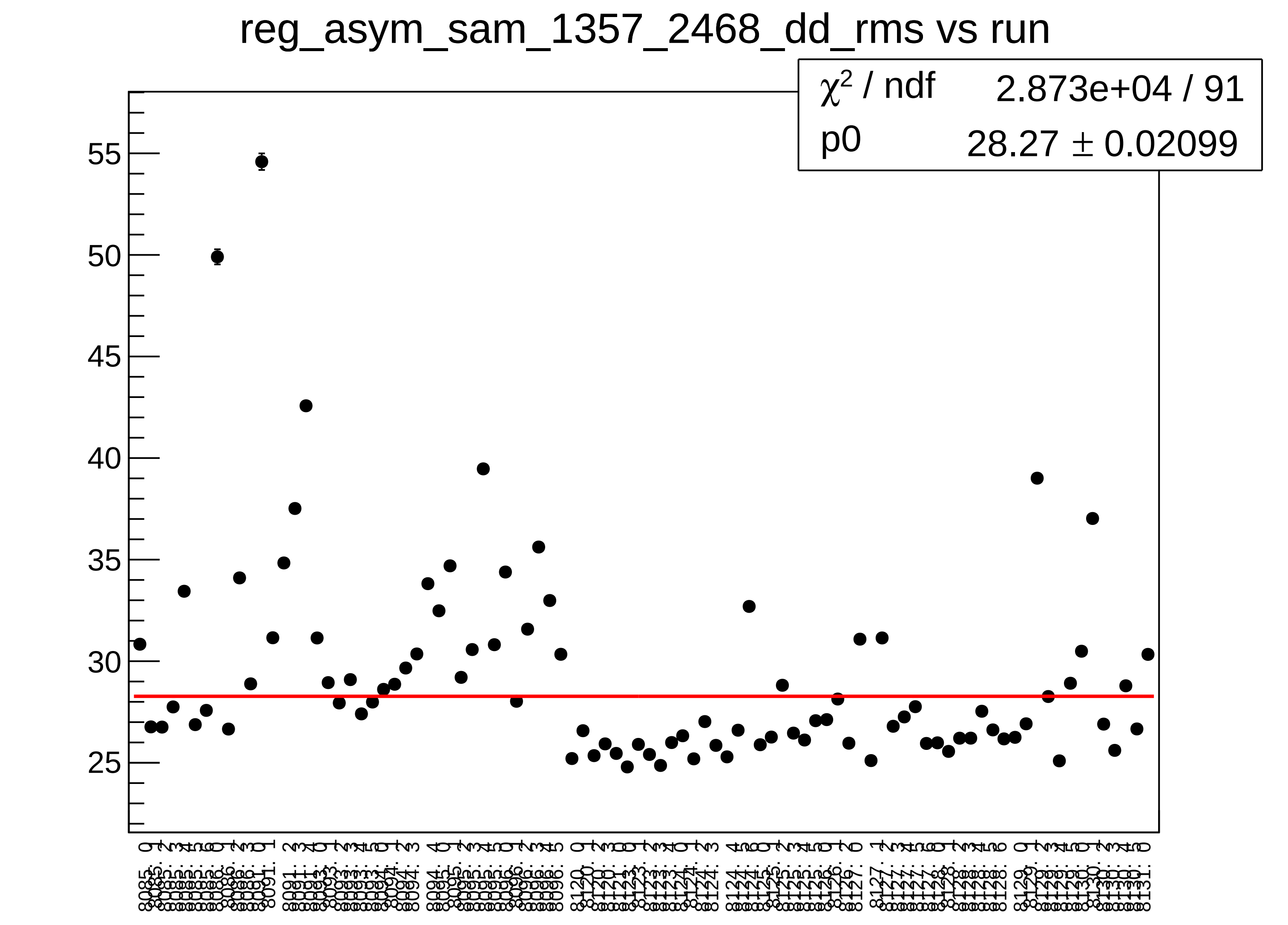
asym_sam_2468_avg_mean vs run
χ² / ndf 57.3 / 91
p0 2192 ± 1896
pull
Entries 92
Mean −337.8
Std Dev 400.5
pull1D
Entries 92
Mean 0.003739
Std Dev 0.7892



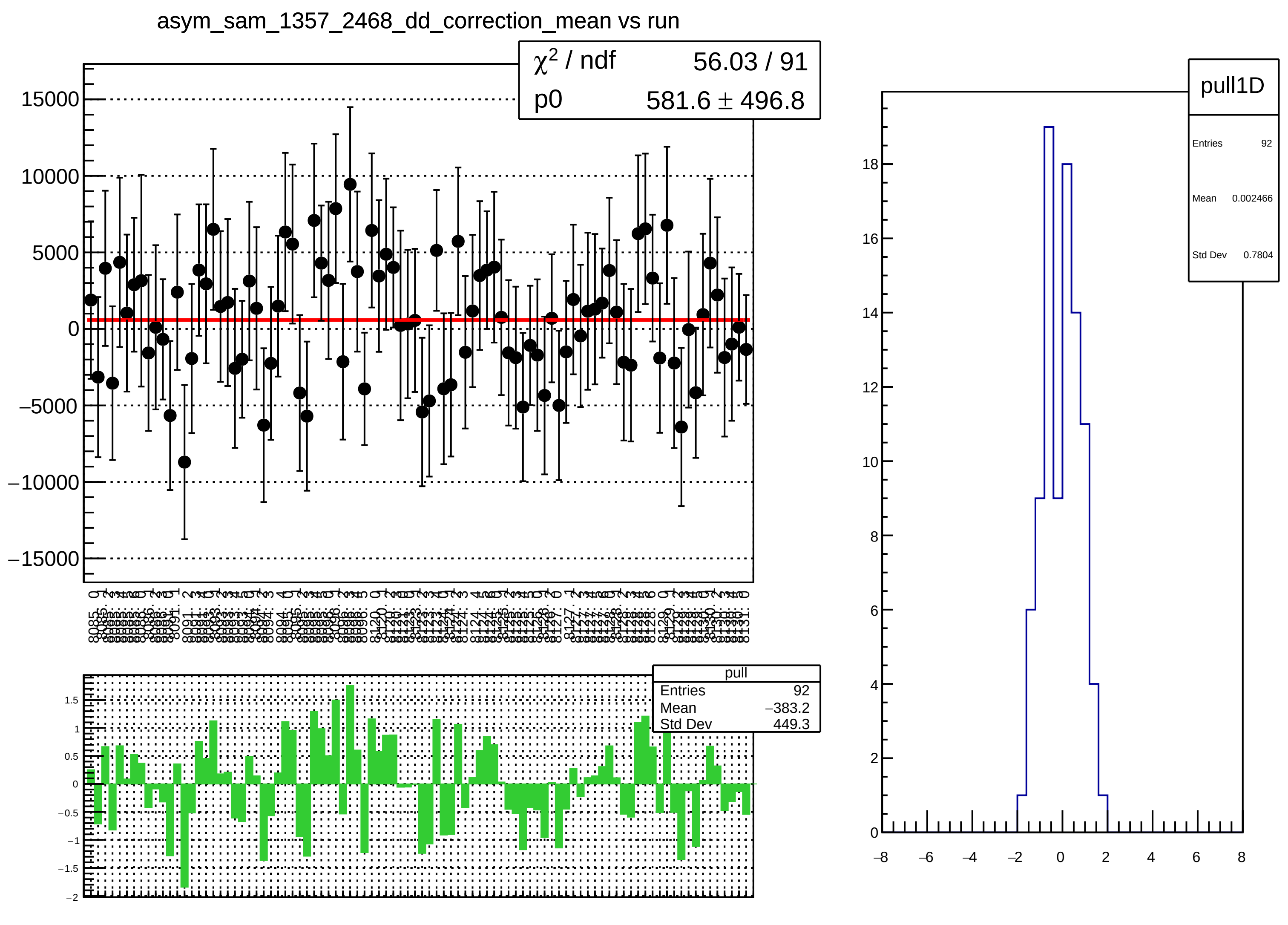
asym_sam_2468_avg_rms vs run
χ^2 / ndf 3874 / 91
p0 1818 ± 1.341
2600
2400
2200
2000
1800
1600

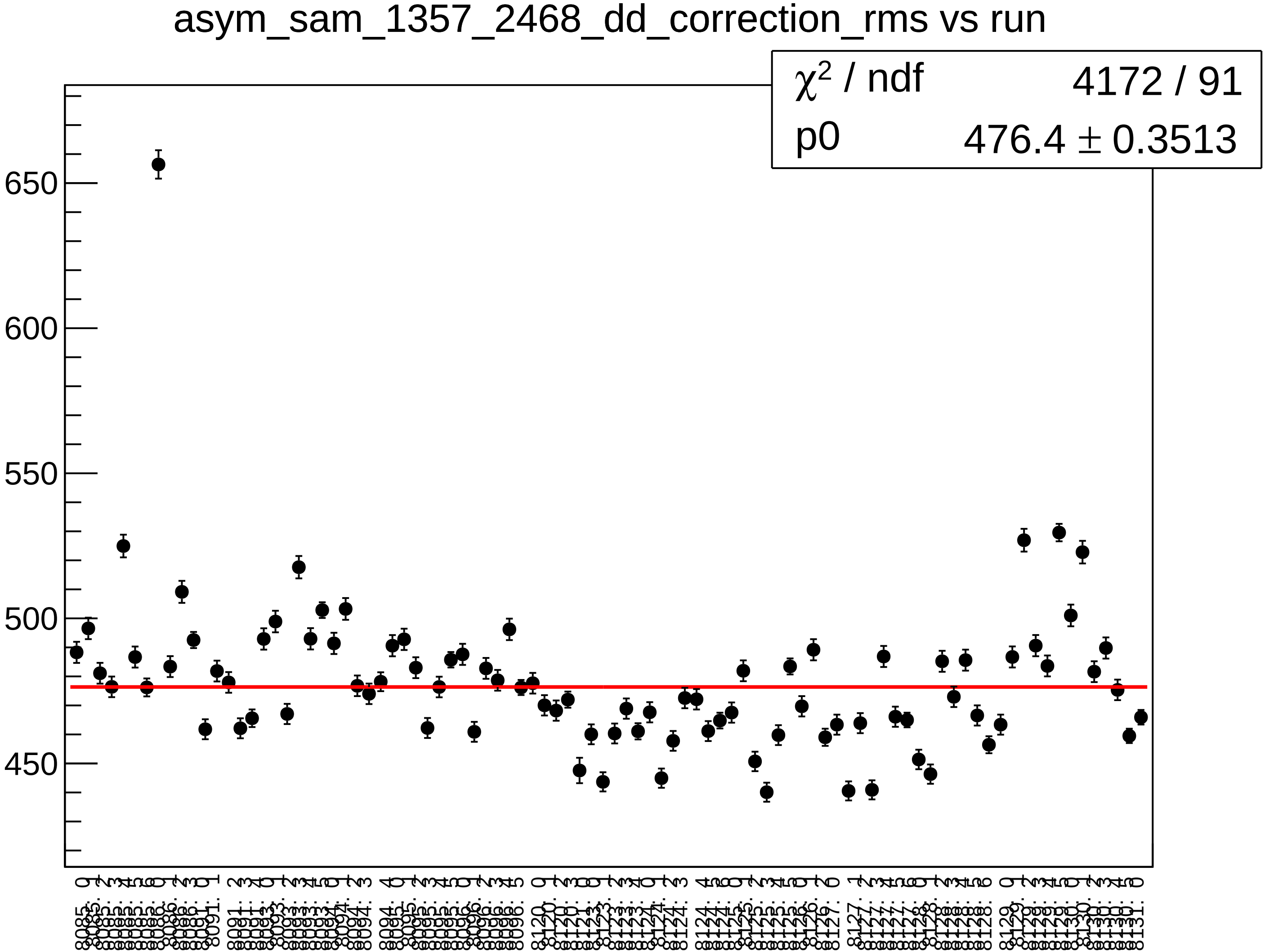


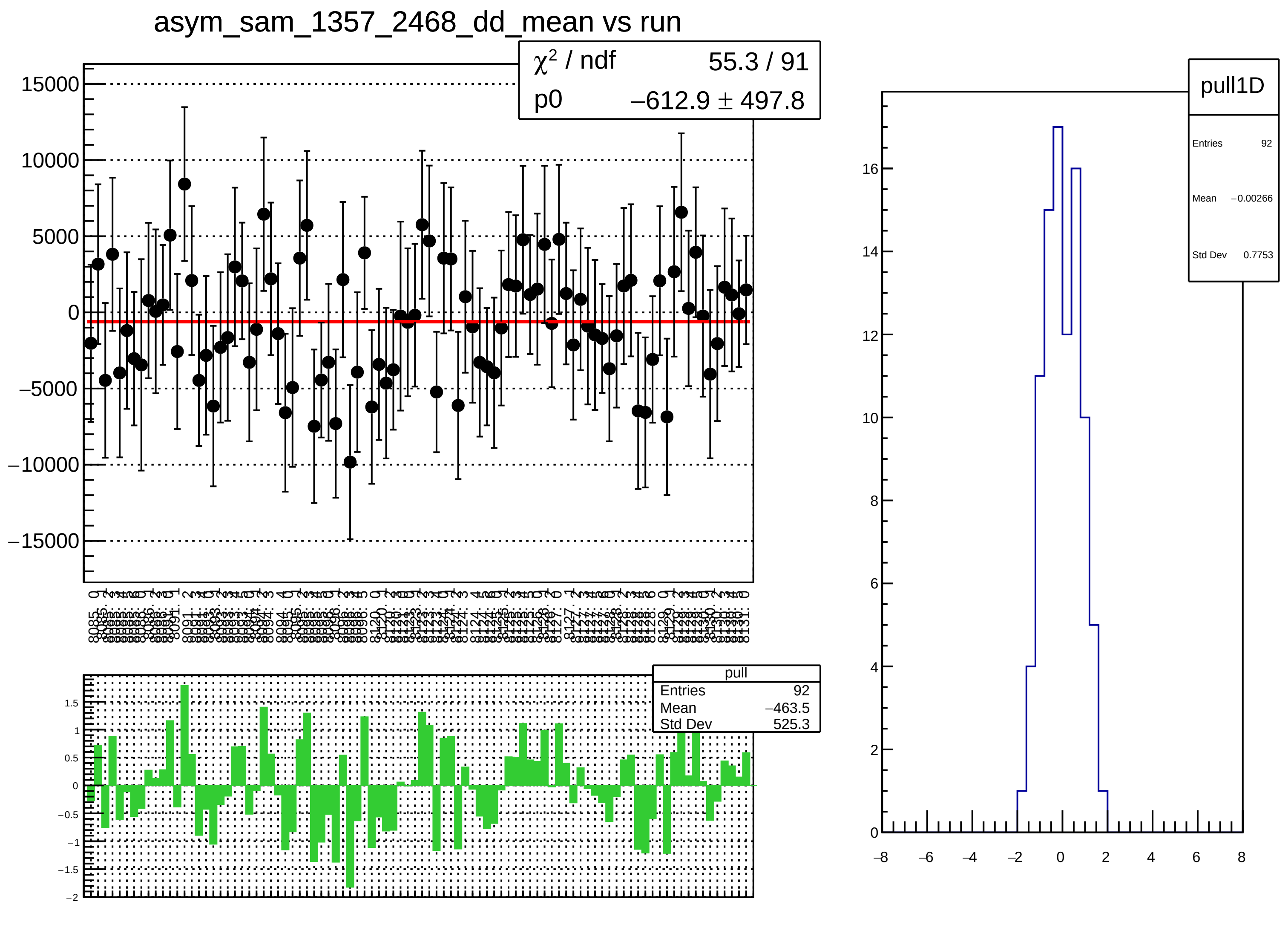
reg_asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 90.61 / 91
p0 −25.62 ± 29.69
pull
Entries 92
Mean −386.5
Std Dev 431.7
pull1D
Entries 92
Mean −0.009479
Std Dev 0.9924

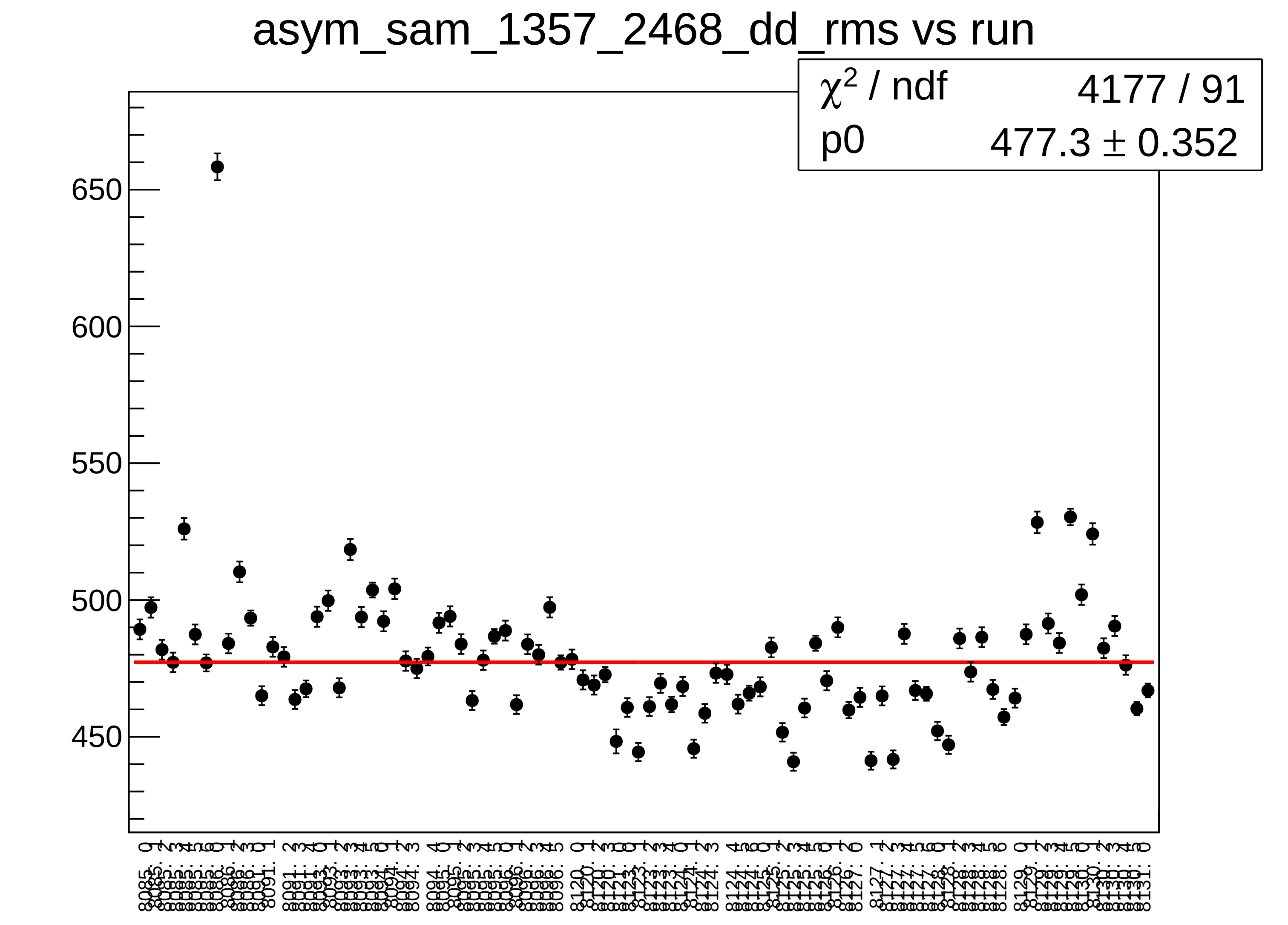


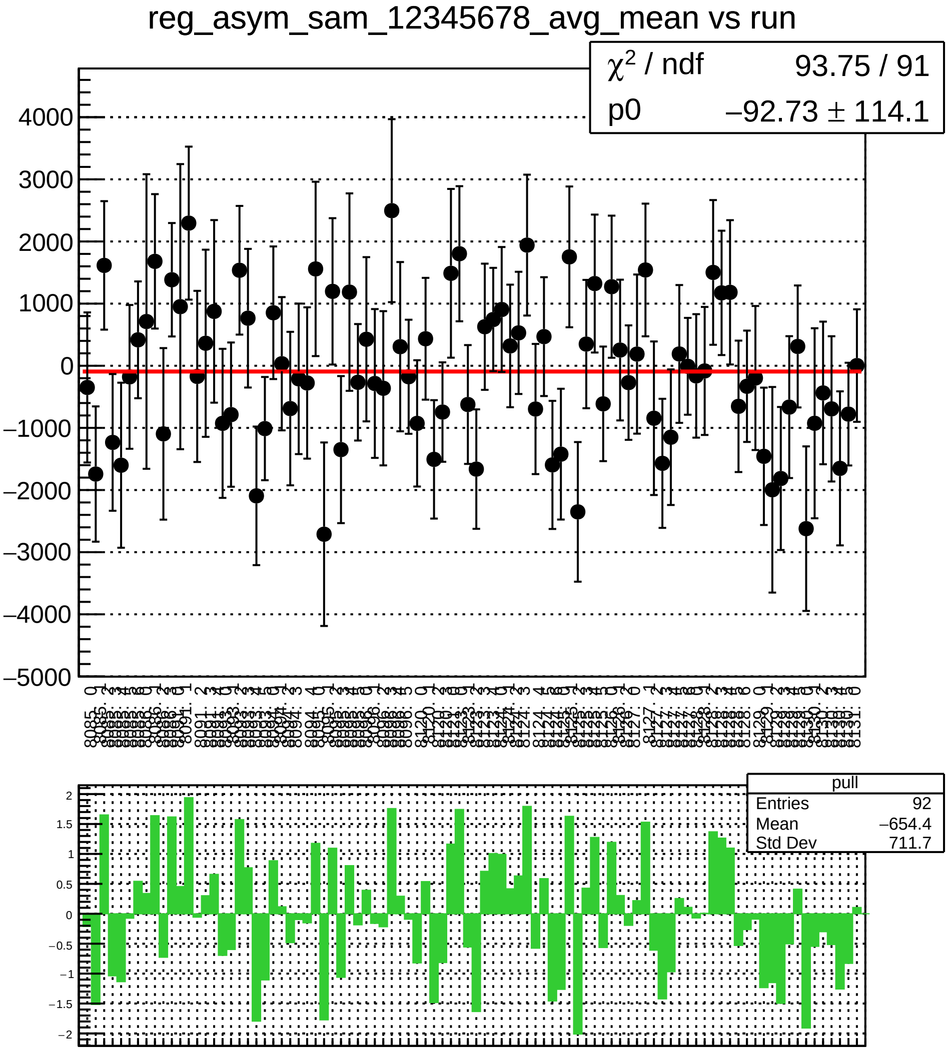
reg_asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 2.873e+04 / 91
p0 28.27 ± 0.02099
55
50
45
40
35
30
25


asym_sam_1357_2468_dd_correction_mean vs run
χ2 / ndf 56.03 / 91
p0 581.6 ± 496.8
pull
Entries 92
Mean −383.2
Std Dev 449.3
pull1D
Entries 92
Mean 0.002466
Std Dev 0.7804

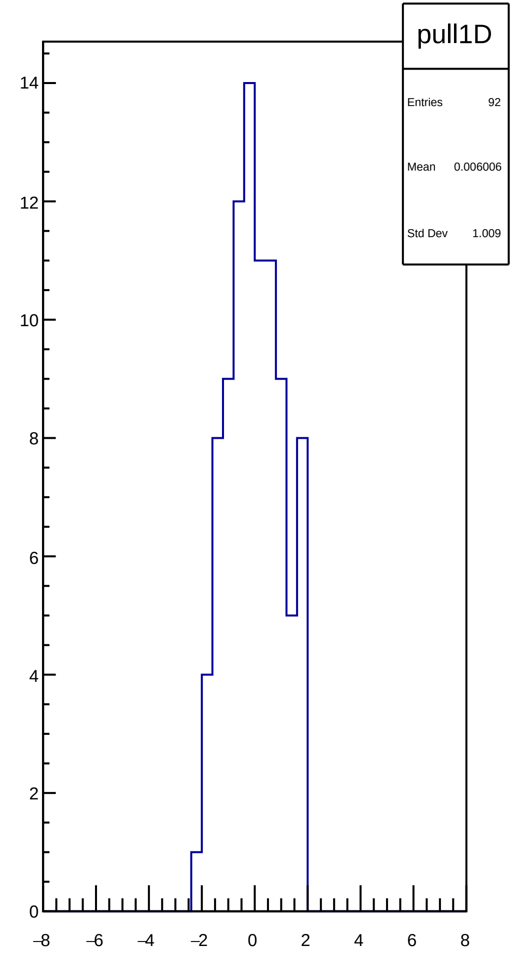

asym_sam_1357_2468_dd_correction_rms vs run
χ2 / ndf 4172 / 91
p0 476.4 ± 0.3513
650
600
550
500
450


asym_sam_1357_2468_dd_mean vs run
χ^2 / ndf 55.3 / 91
p0 −612.9 ± 497.8
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 92
Mean −463.5
Std Dev 525.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean −0.00266
Std Dev 0.7753
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

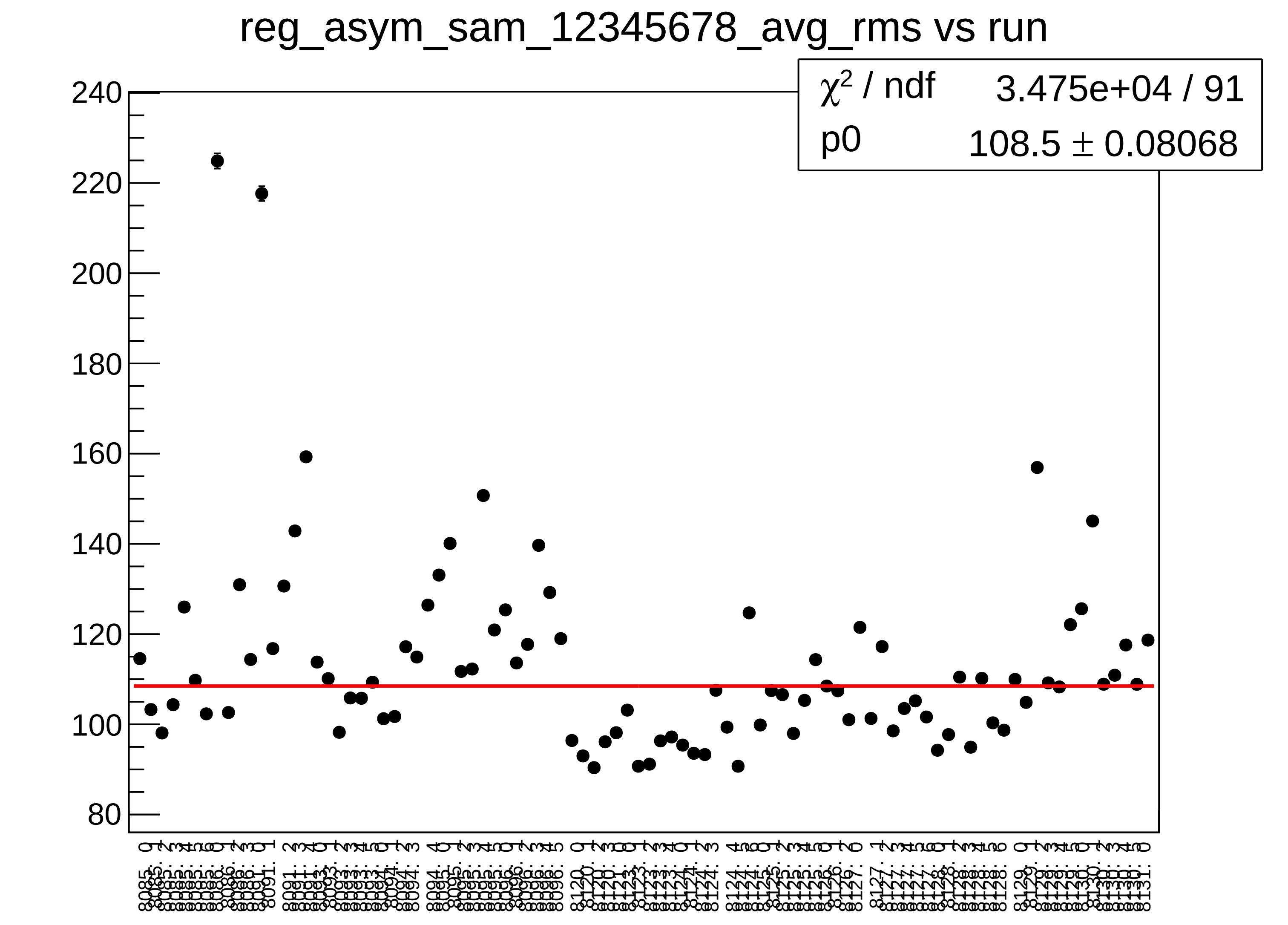

asym_sam_1357_2468_dd_rms vs run
χ^2 / ndf 4177 / 91
p0 477.3 ± 0.352
650
600
550
500
450



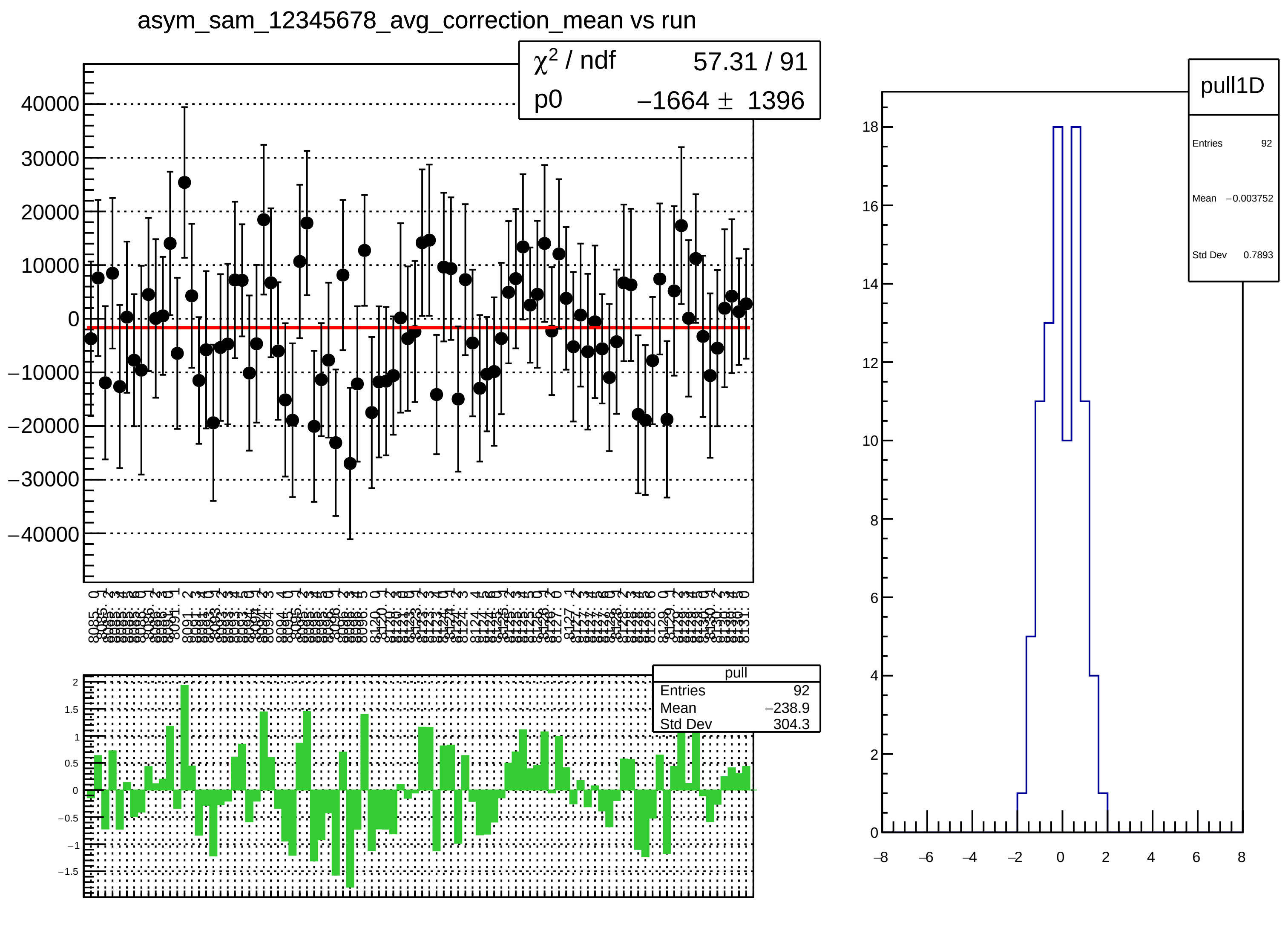
reg_asym_sam_12345678_avg_mean vs run
χ^2 / ndf 93.75 / 91
p0 −92.73 ± 114.1
pull
Entries 92
Mean −654.4
Std Dev 711.7

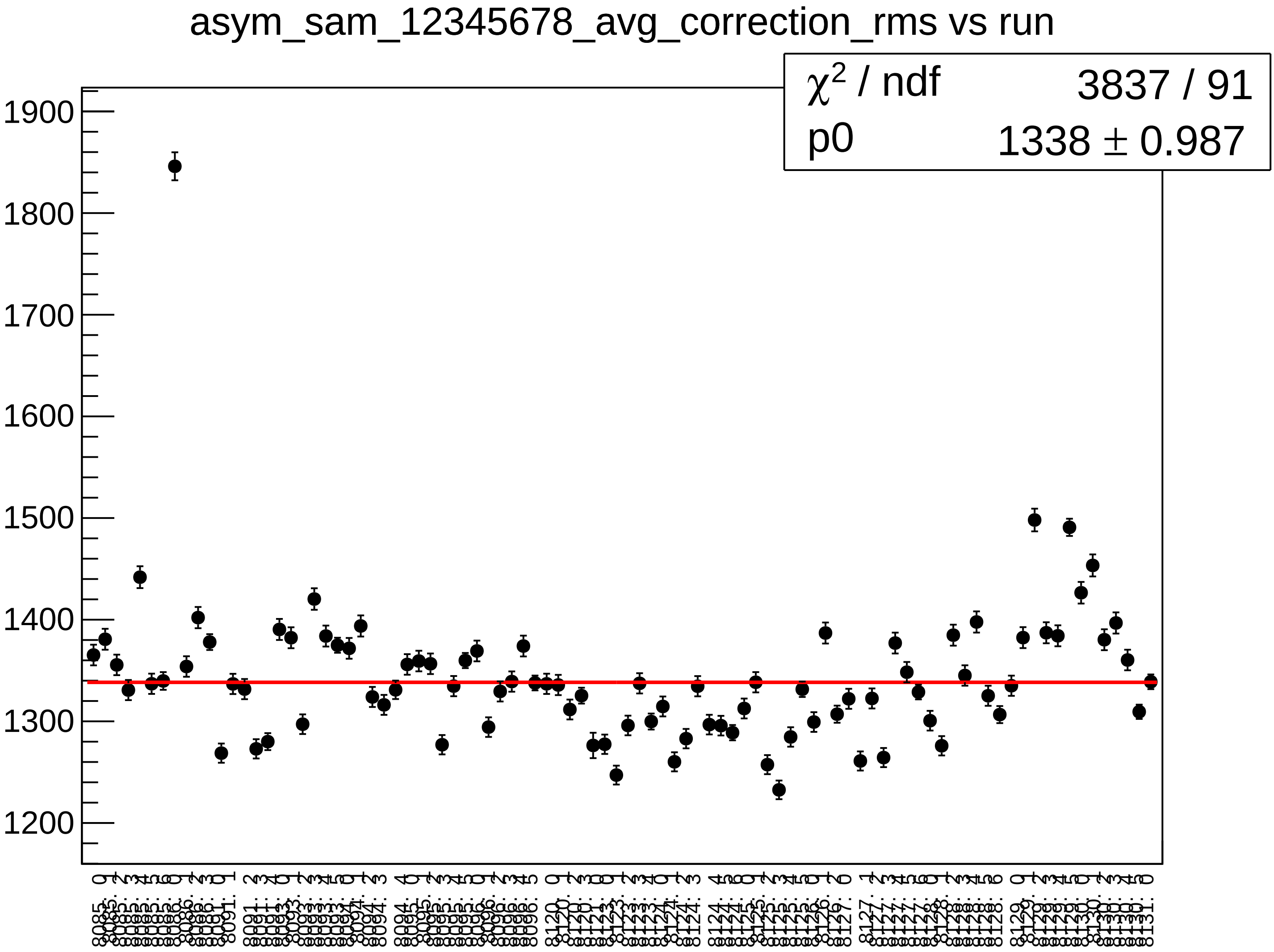


pull1D
Entries 92
Mean 0.006006
Std Dev 1.009

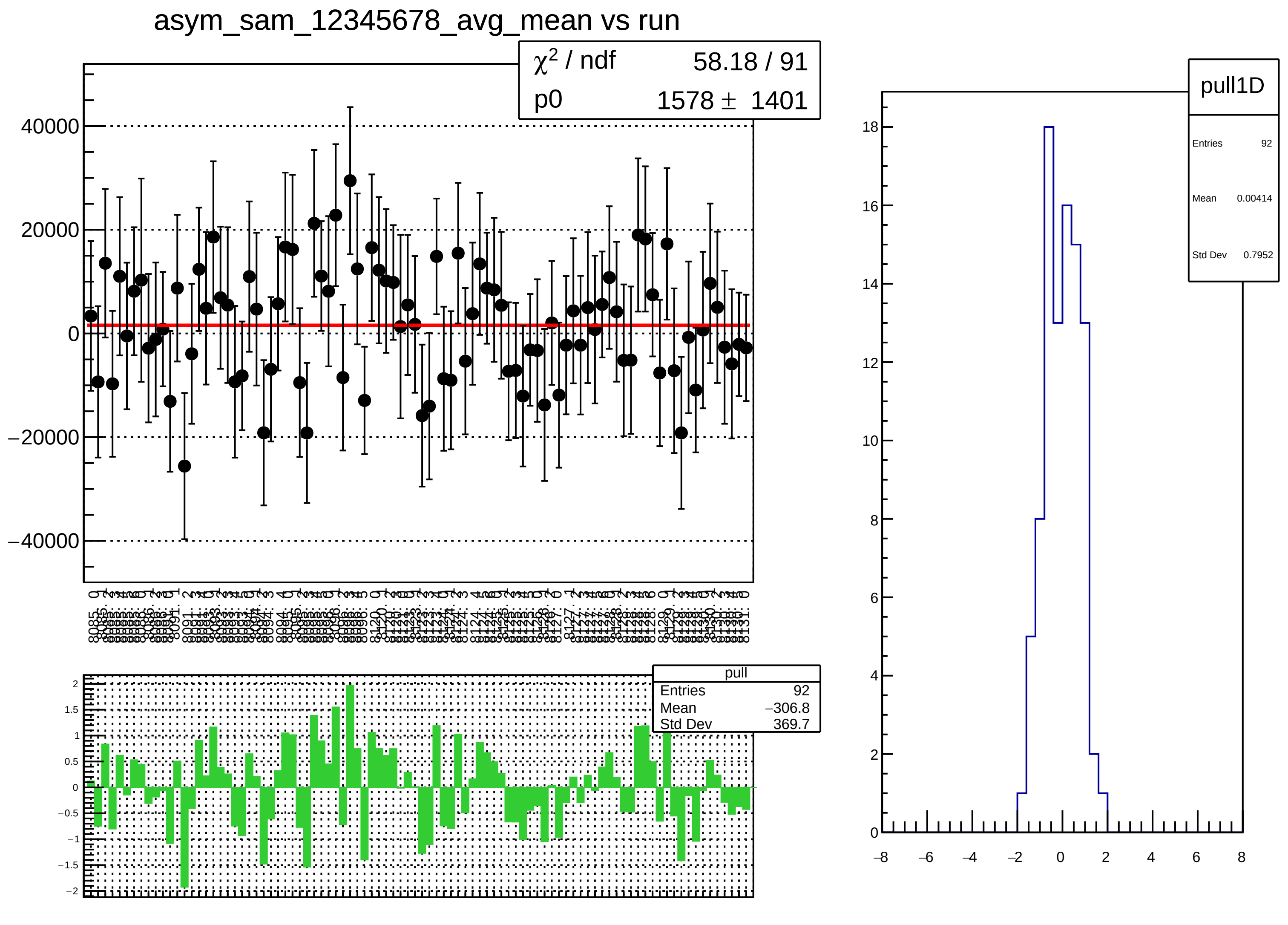


reg_asym_sam_12345678_avg_rms vs run
χ2 / ndf 3.475e+04 / 91
p0 108.5 ± 0.08068
240
220
200
180
160
140
120
100
80

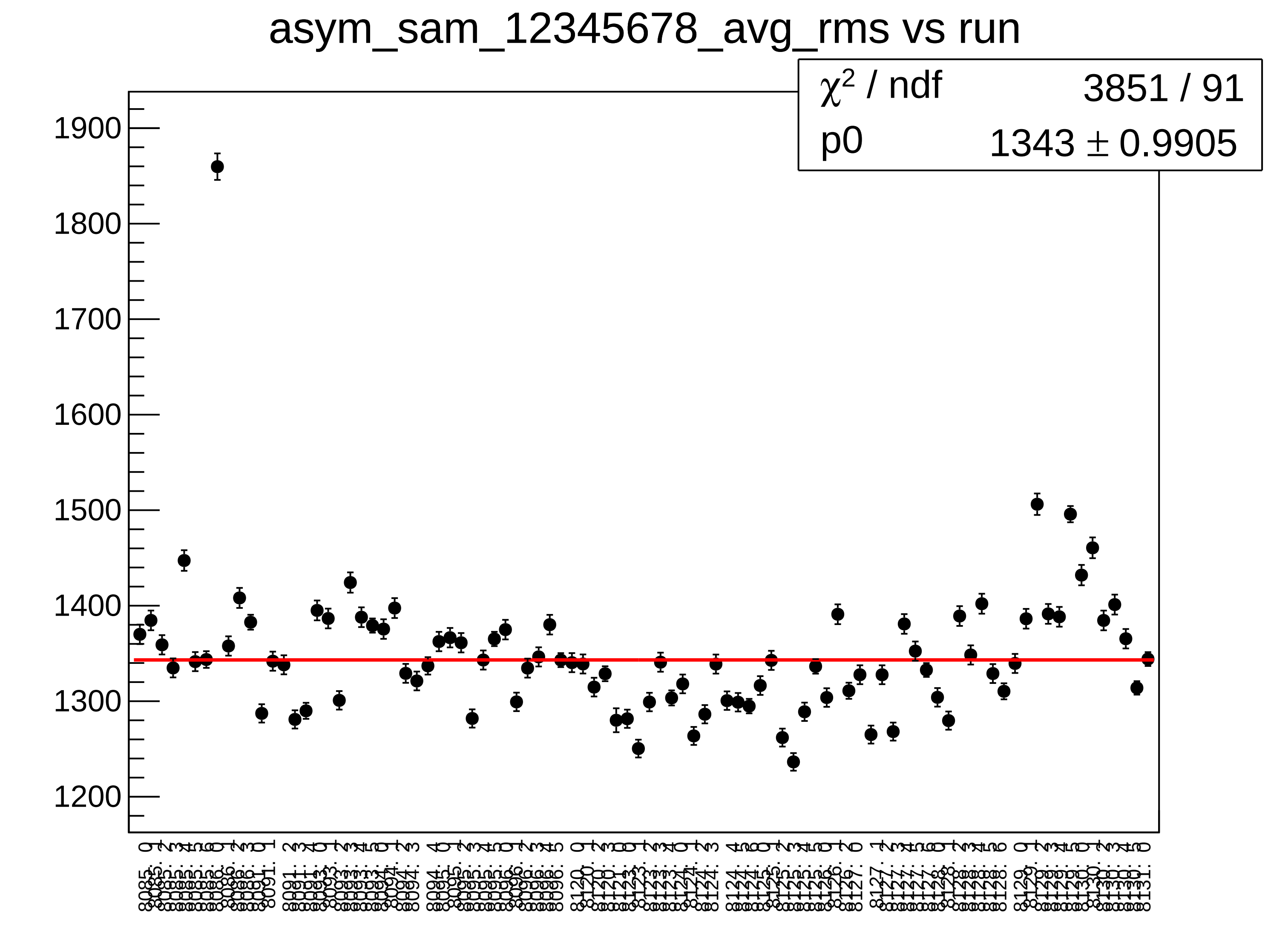

asym_sam_12345678_avg_correction_mean vs run
χ2 / ndf 57.31 / 91
p0 −1664 ± 1396
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 92
Mean −238.9
Std Dev 304.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.003752
Std Dev 0.7893
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

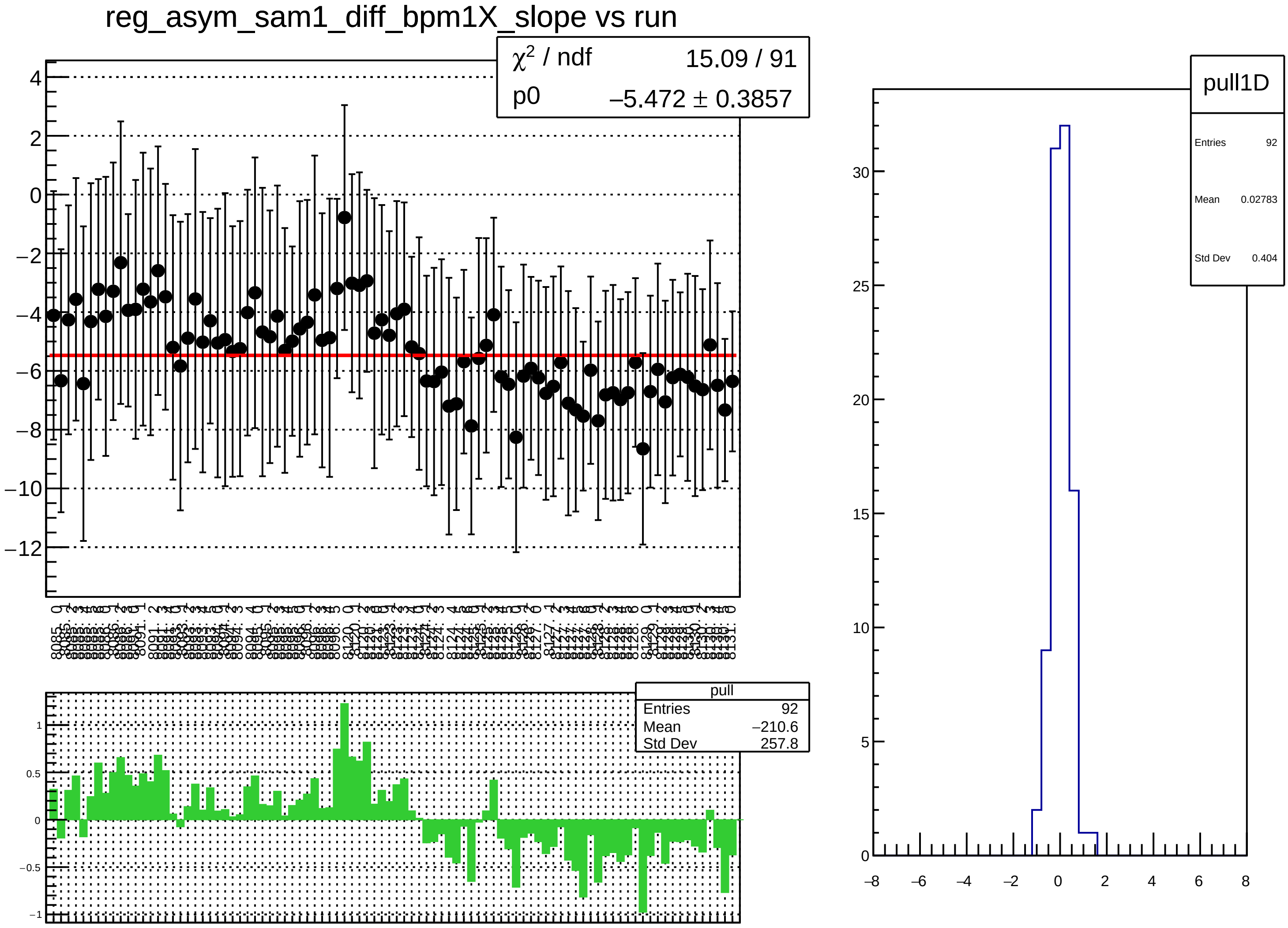


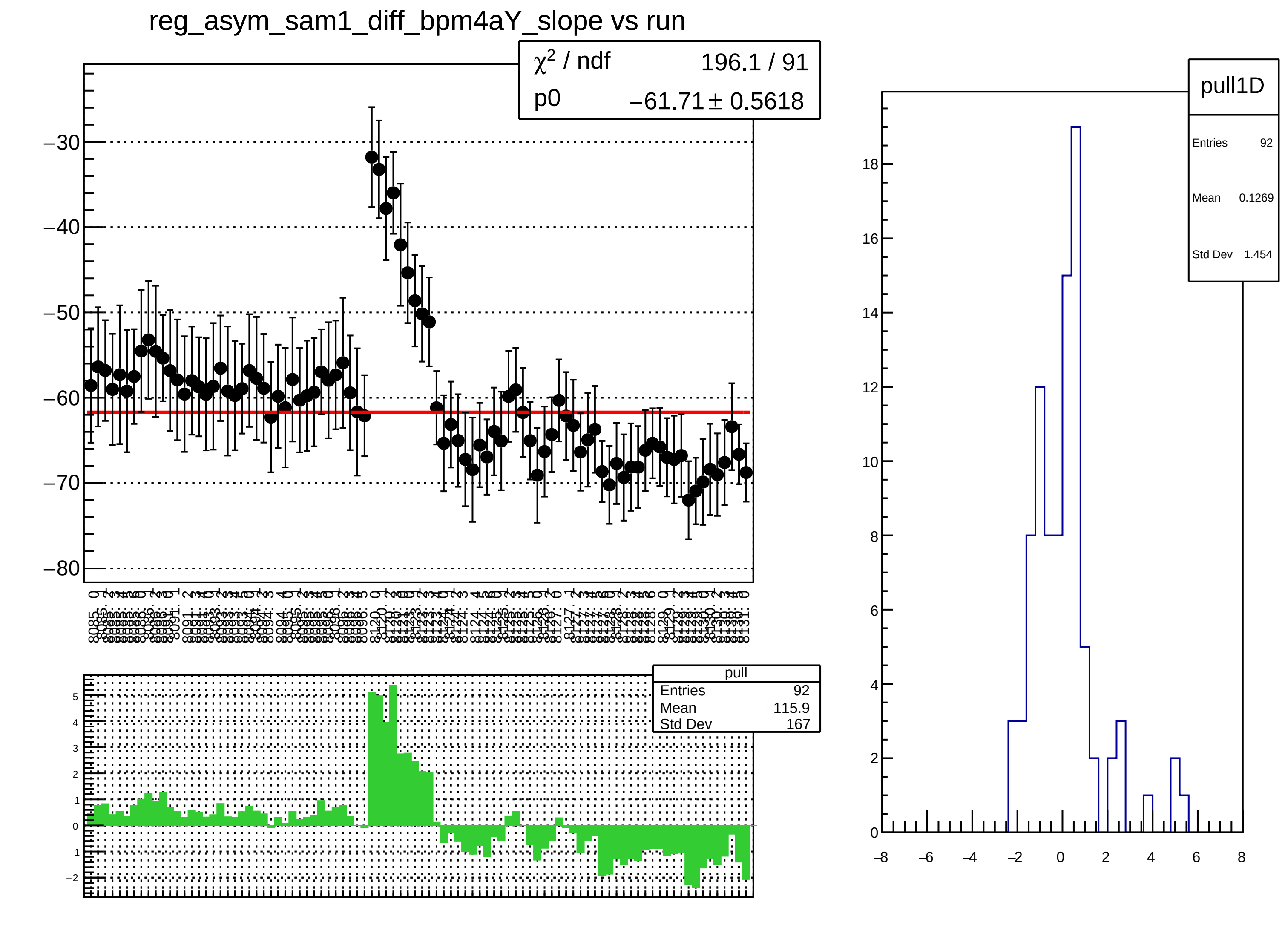
asym_sam_12345678_avg_correction_rms vs run
χ^2 / ndf 3837 / 91
p0 1338 ± 0.987
1900
1800
1700
1600
1500
1400
1300
1200

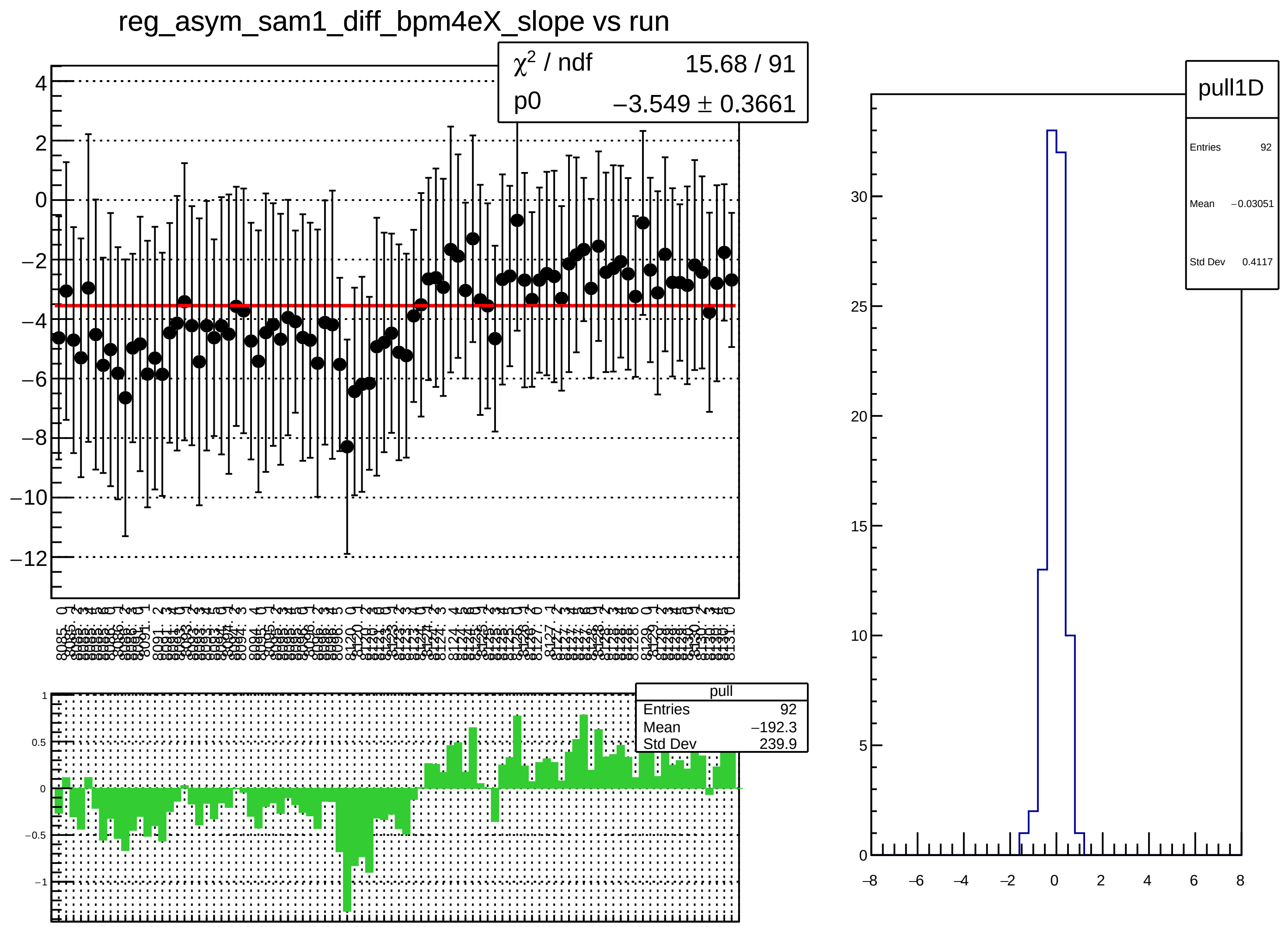


asym_sam_12345678_avg_mean vs run
χ^2 / ndf 58.18 / 91
p0 1578 ± 1401
pull
Entries 92
Mean −306.8
Std Dev 369.7
pull1D
Entries 92
Mean 0.00414
Std Dev 0.7952

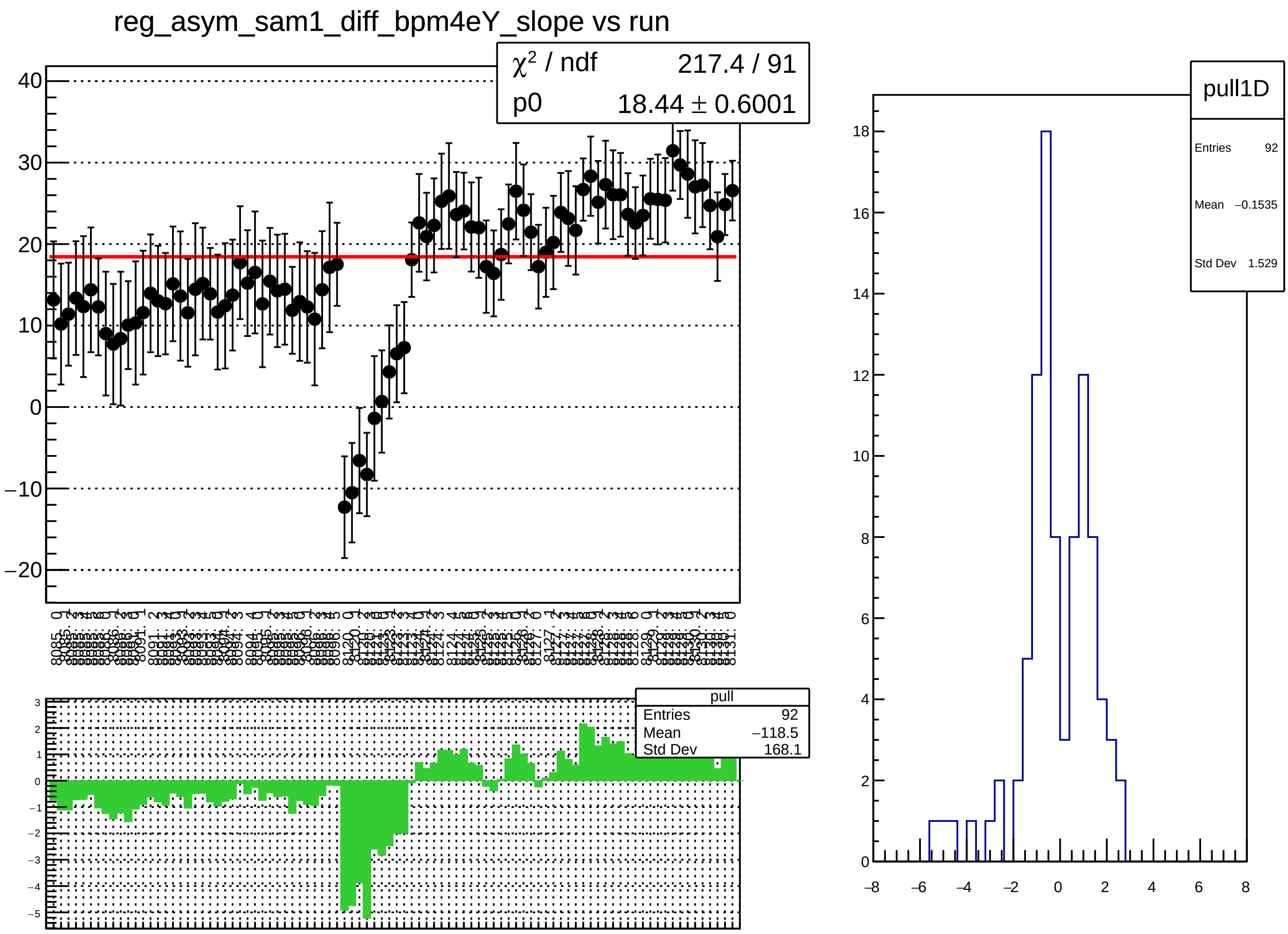

asym_sam_12345678_avg_rms vs run
χ^2 / ndf 3851 / 91
p0 1343 ± 0.9905
1900
1800
1700
1600
1500
1400
1300
1200


reg_asym_sam1_diff_bpm1X_slope vs run
χ2 / ndf 15.09 / 91
p0 −5.472 ± 0.3857
pull
Entries 92
Mean −210.6
Std Dev 257.8
pull1D
Entries 92
Mean 0.02783
Std Dev 0.404

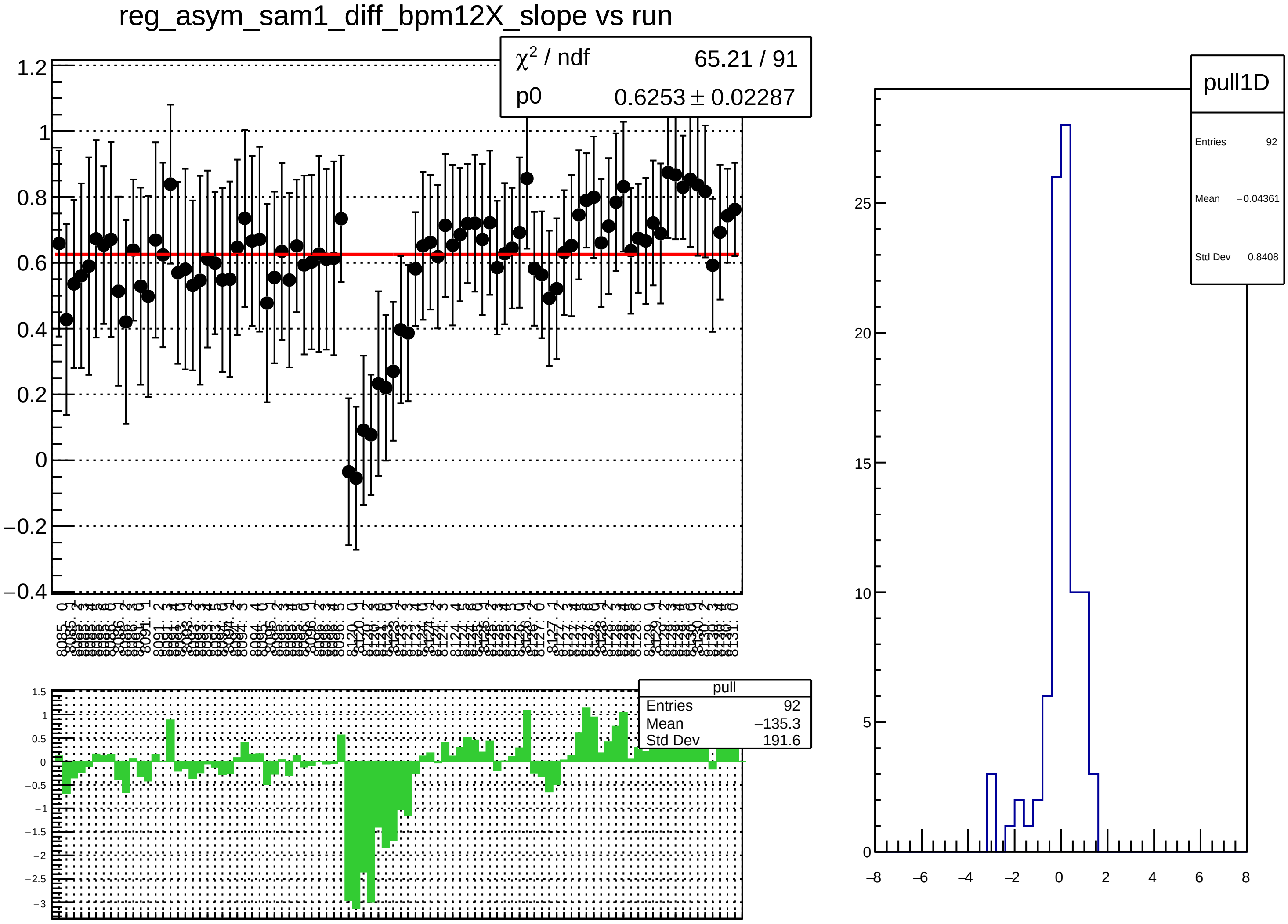

reg_asym_sam1_diff_bpm4aY_slope vs run
χ2 / ndf 196.1 / 91
p0 −61.71 ± 0.5618
−30
−40
−50
−60
−70
−80
pull
Entries 92
Mean −115.9
Std Dev 167
5
4
3
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.1269
Std Dev 1.454
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



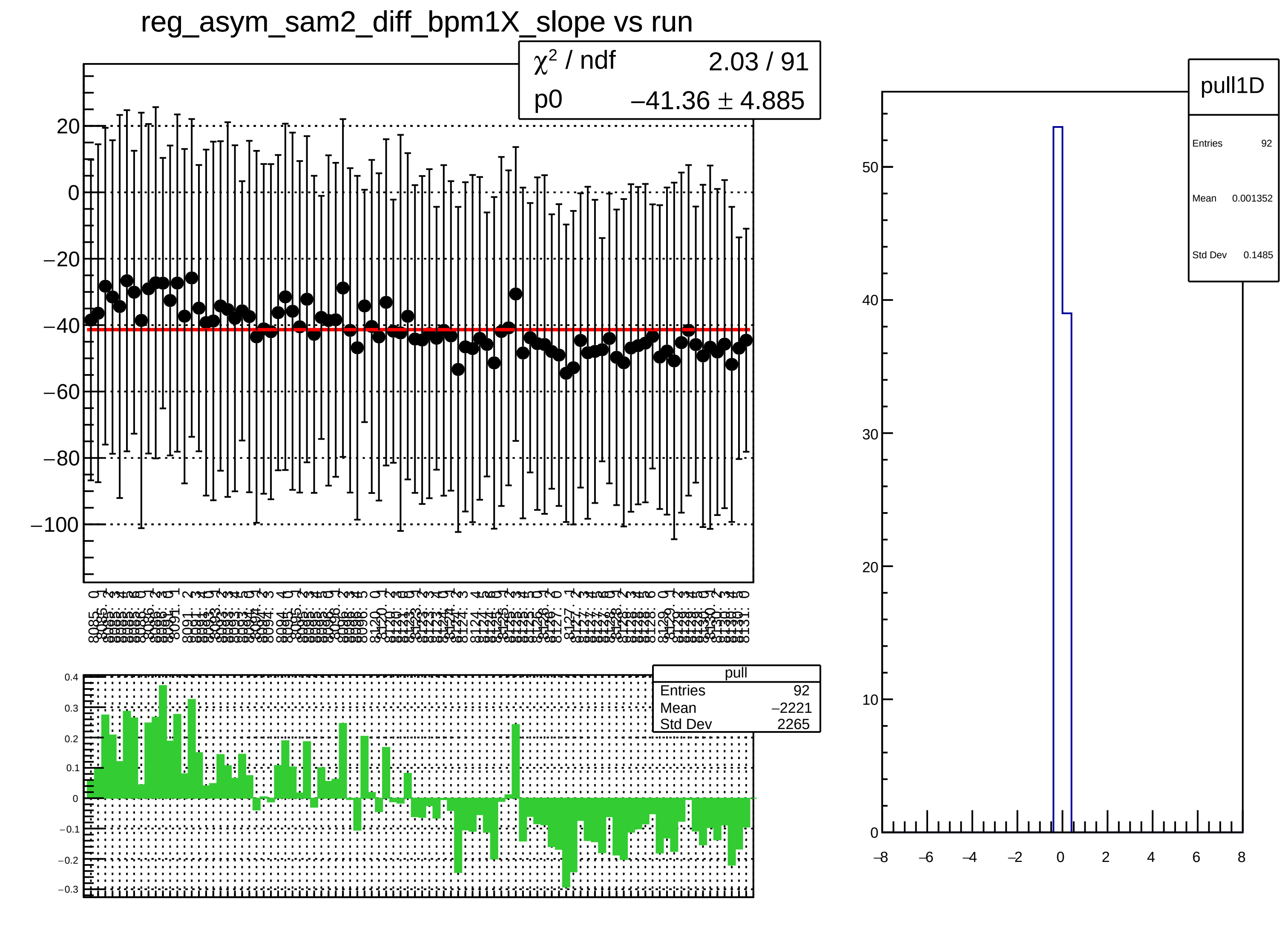
reg_asym_sam1_diff_bpm4eX_slope vs run
χ^2 / ndf 15.68 / 91
p0 −3.549 ± 0.3661
pull
Entries 92
Mean −192.3
Std Dev 239.9
pull1D
Entries 92
Mean −0.03051
Std Dev 0.4117



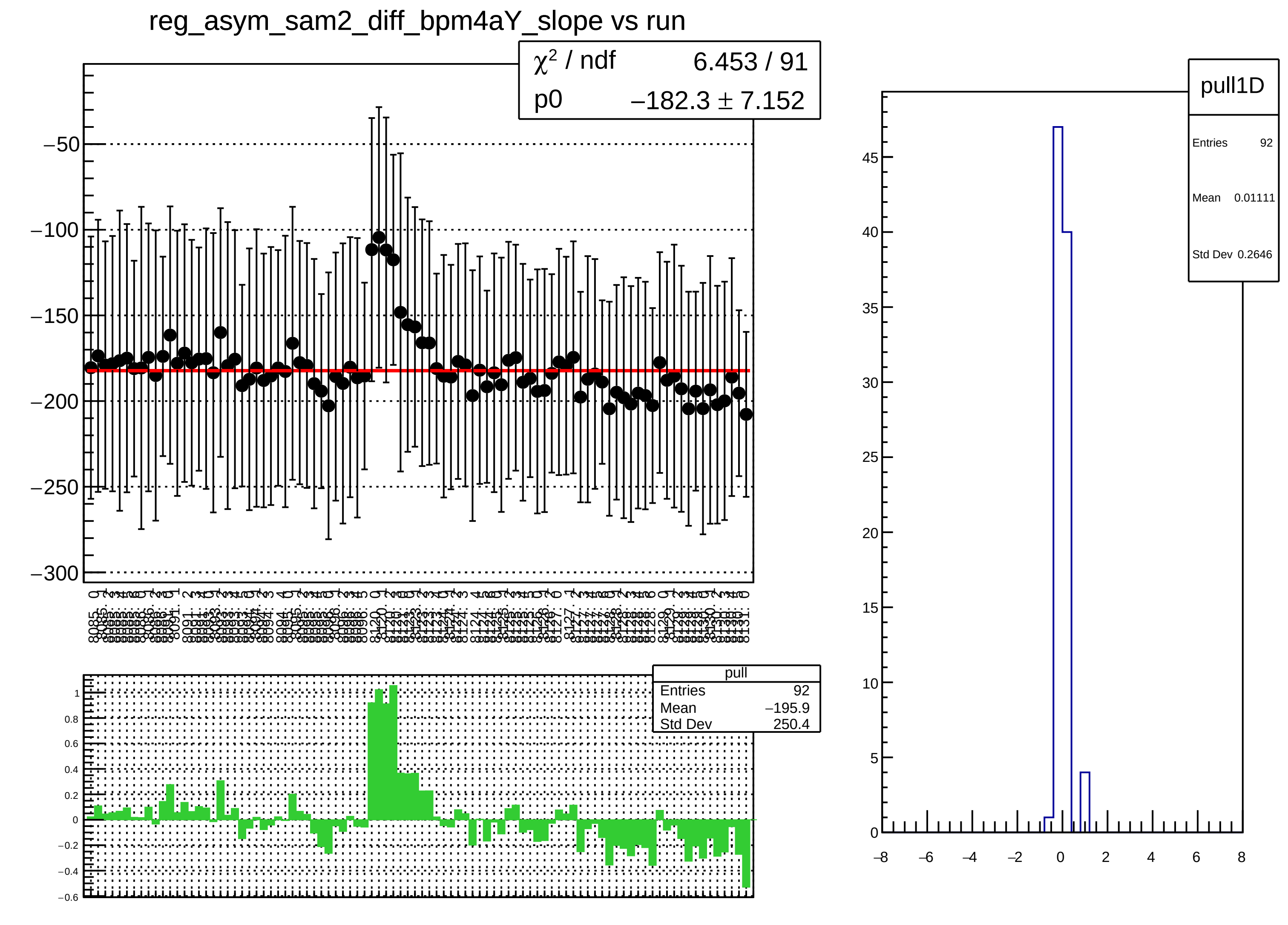
reg_asym_sam1_diff_bpm4eY_slope vs run
χ^2 / ndf 217.4 / 91
p0 18.44 ± 0.6001
pull
Entries 92
Mean −118.5
Std Dev 168.1
pull1D
Entries 92
Mean −0.1535
Std Dev 1.529



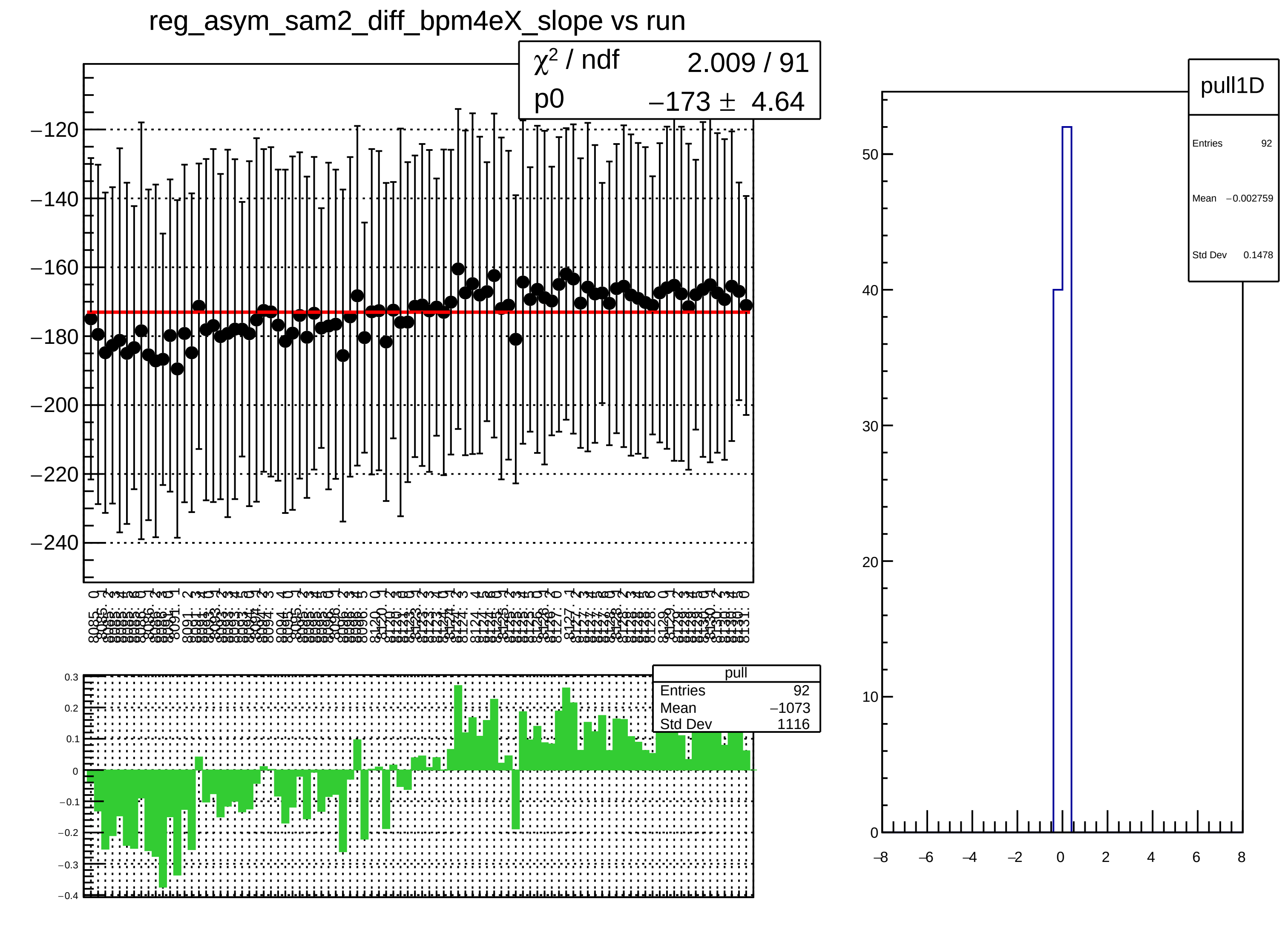
reg_asym_sam1_diff_bpm12X_slope vs run
χ^2 / ndf 65.21 / 91
p0 0.6253 ± 0.02287
pull
Entries 92
Mean −135.3
Std Dev 191.6
pull1D
Entries 92
Mean −0.04361
Std Dev 0.8408

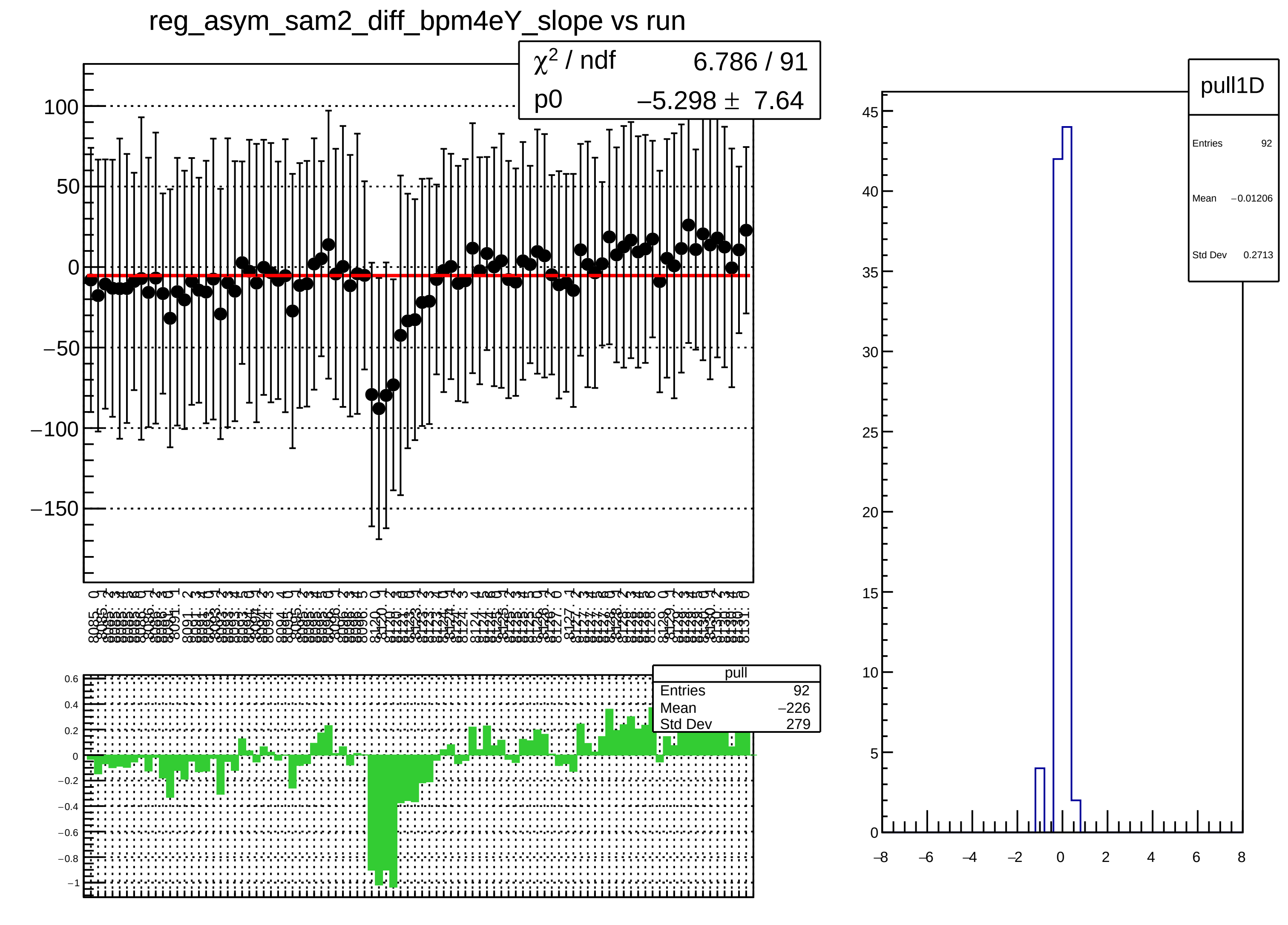


reg_asym_sam2_diff_bpm1X_slope vs run
χ^2 / ndf 2.03 / 91
p0 −41.36 ± 4.885
pull
Entries 92
Mean −2221
Std Dev 2265
pull1D
Entries 92
Mean 0.001352
Std Dev 0.1485

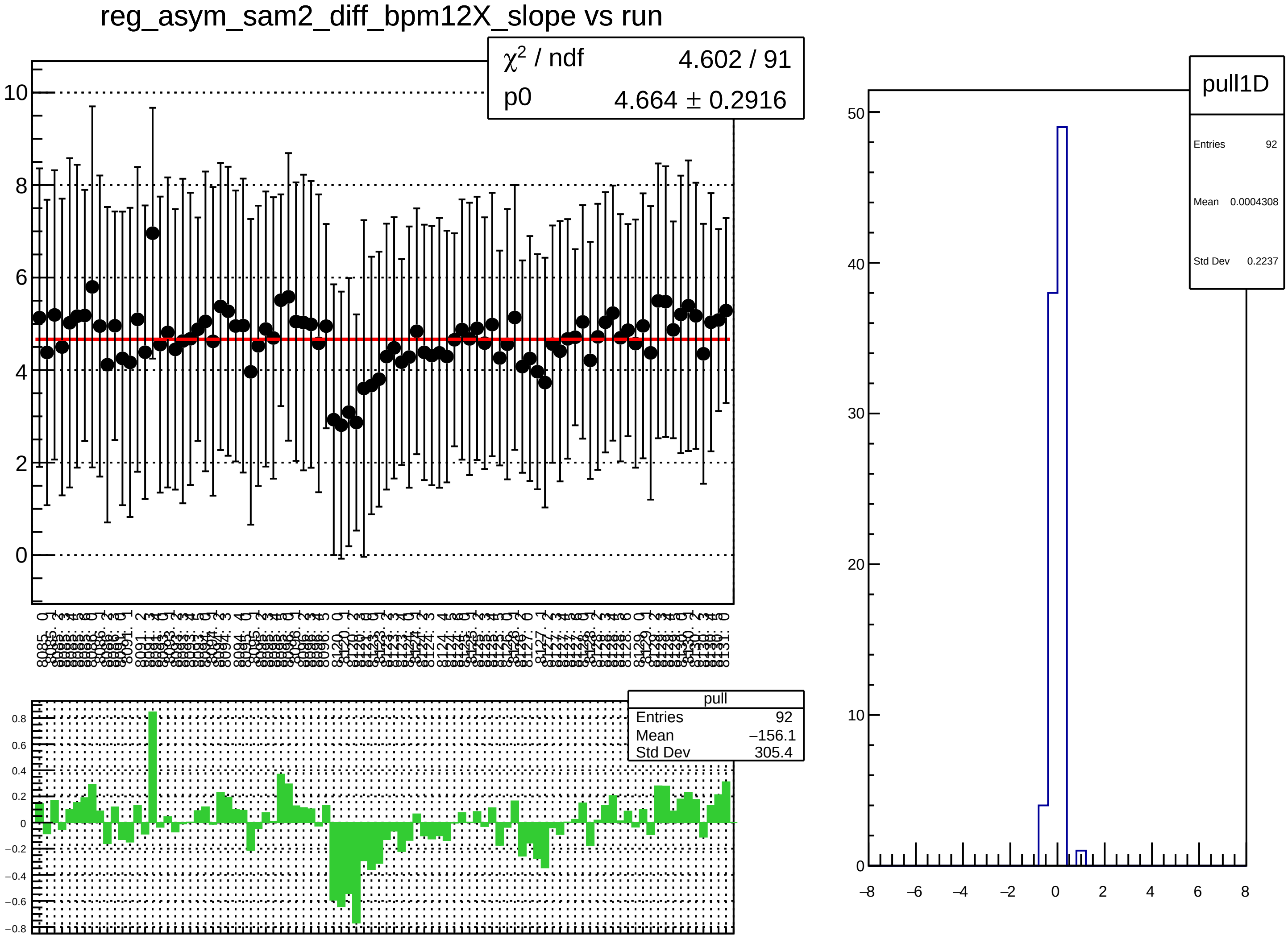


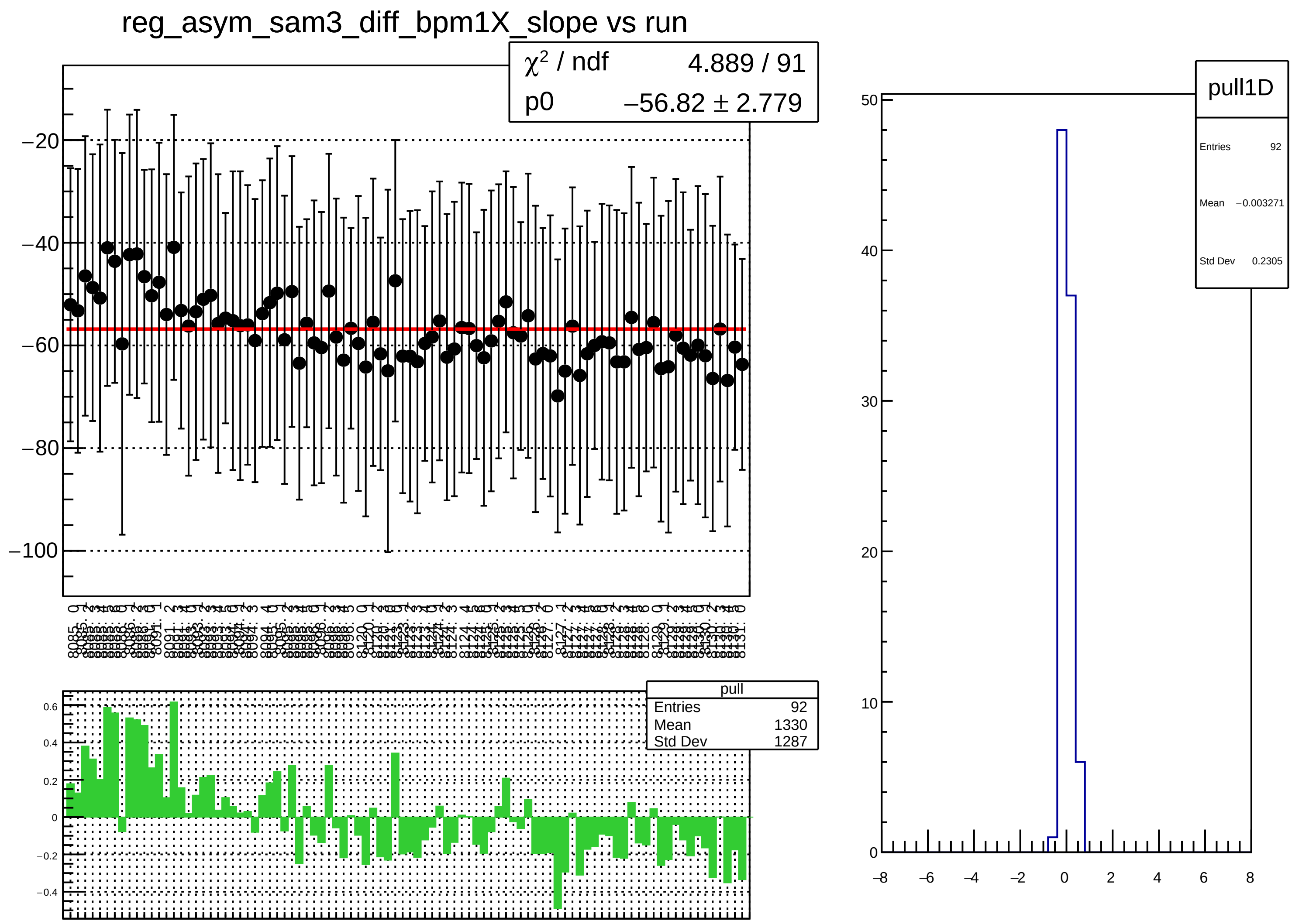
reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 6.453 / 91
p0 −182.3 ± 7.152
pull
Entries 92
Mean −195.9
Std Dev 250.4
pull1D
Entries 92
Mean 0.01111
Std Dev 0.2646


reg_asym_sam2_diff_bpm4eX_slope vs run
χ^2 / ndf 2.009 / 91
p0 −173 ± 4.64
pull
Entries 92
Mean −1073
Std Dev 1116
pull1D
Entries 92
Mean −0.002759
Std Dev 0.1478

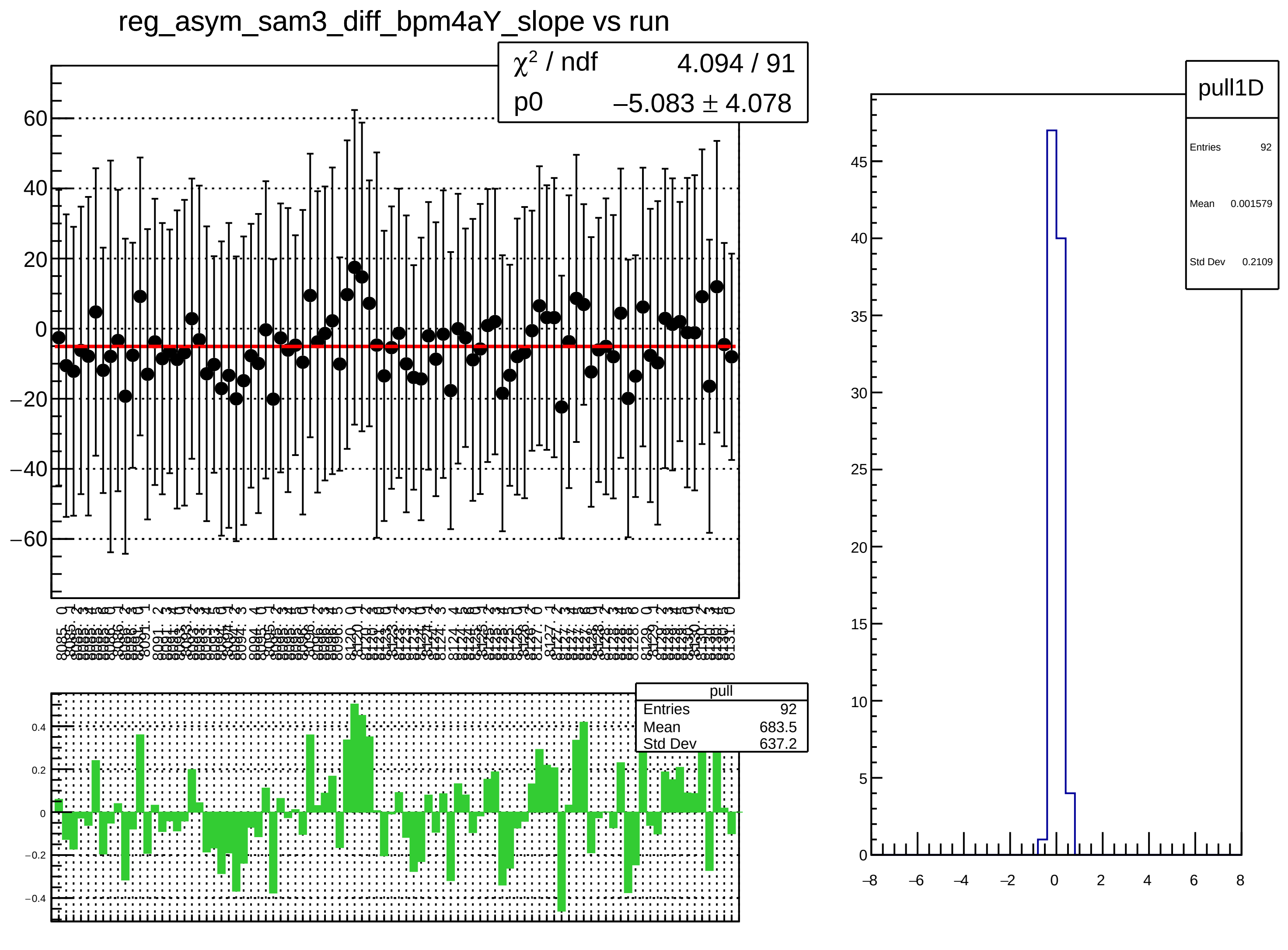


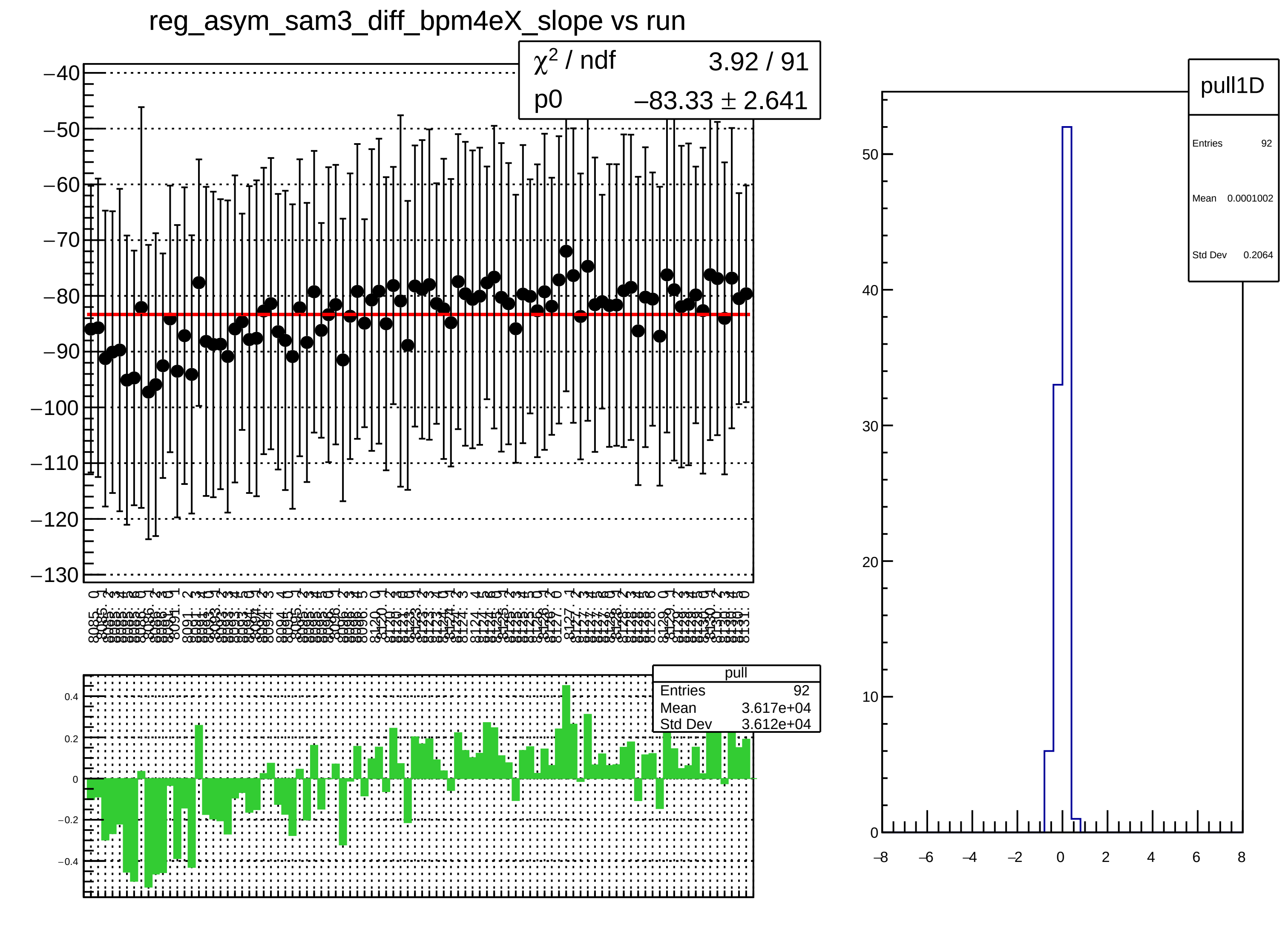
reg_asym_sam2_diff_bpm4eY_slope vs run
χ^2 / ndf 6.786 / 91
p0 −5.298 ± 7.64
pull
Entries 92
Mean −226
Std Dev 279
pull1D
Entries 92
Mean −0.01206
Std Dev 0.2713


reg_asym_sam2_diff_bpm12X_slope vs run
χ2 / ndf 4.602 / 91
p0 4.664 ± 0.2916
pull
Entries 92
Mean −156.1
Std Dev 305.4
pull1D
Entries 92
Mean 0.0004308
Std Dev 0.2237

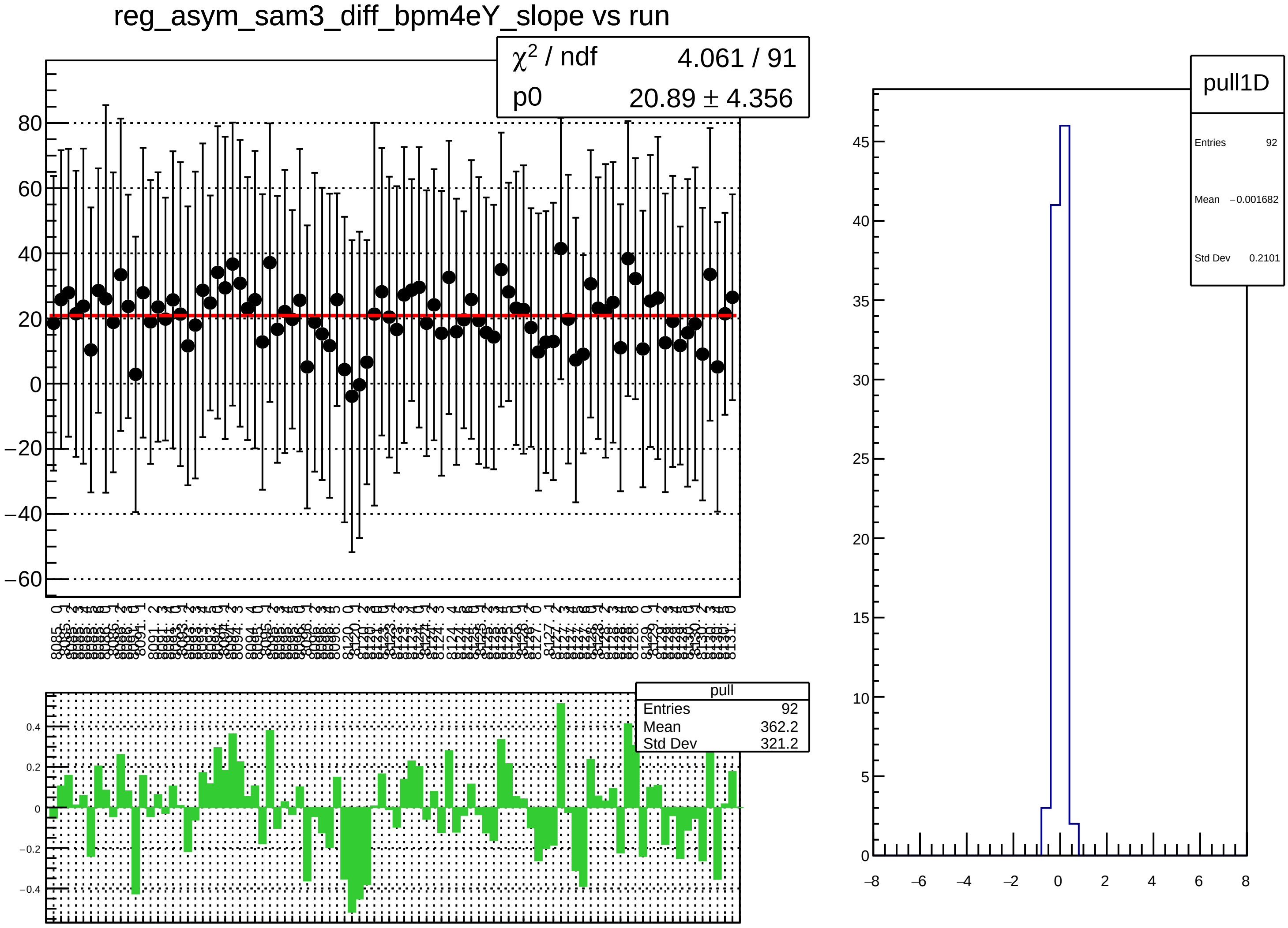


reg_asym_sam3_diff_bpm1X_slope vs run
χ² / ndf 4.889 / 91
p0 −56.82 ± 2.779
pull
Entries 92
Mean 1330
Std Dev 1287
pull1D
Entries 92
Mean −0.003271
Std Dev 0.2305

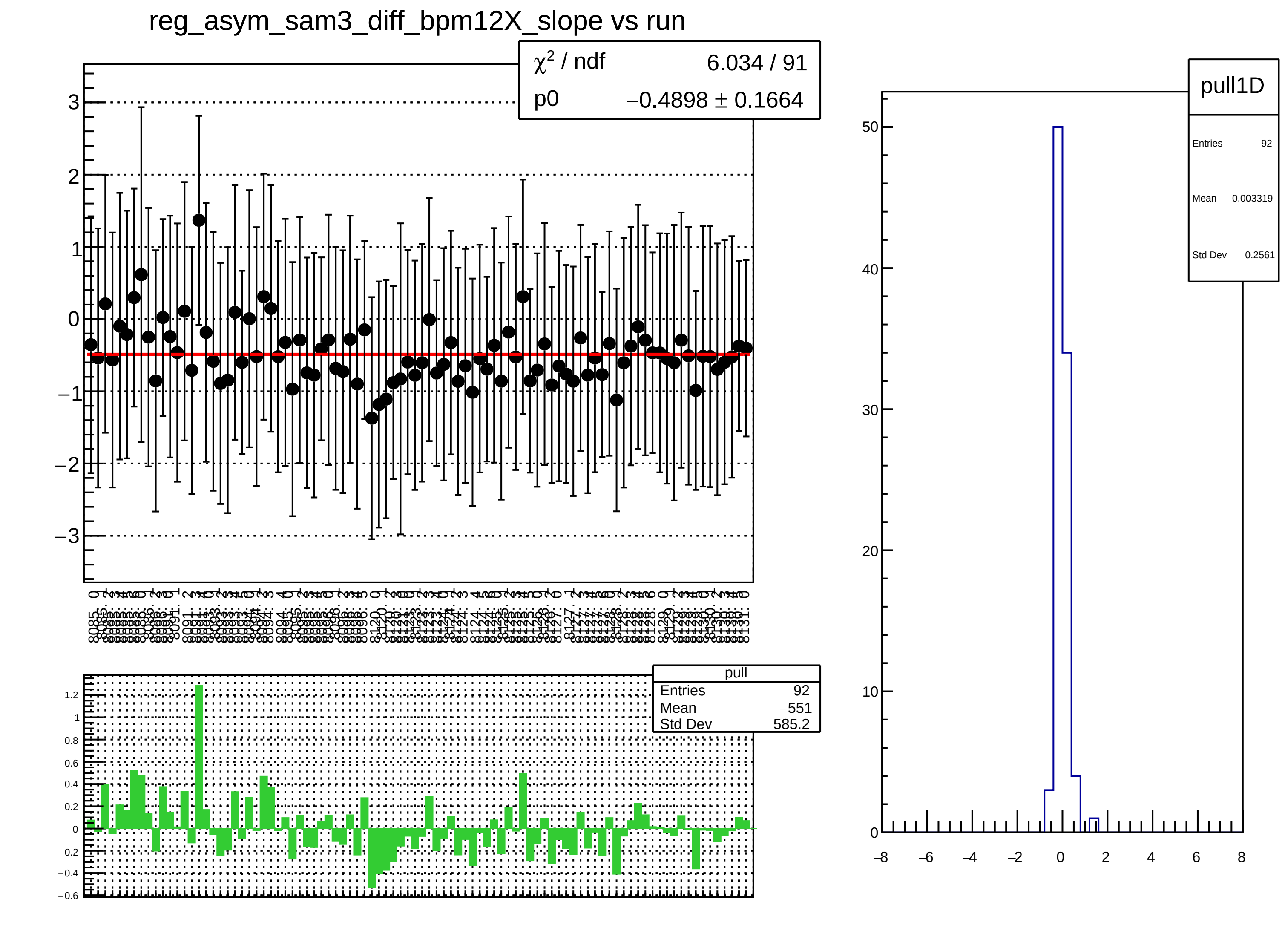

reg_asym_sam3_diff_bpm4aY_slope vs run
χ^2 / ndf 4.094 / 91
p0 −5.083 ± 4.078
pull
Entries 92
Mean 683.5
Std Dev 637.2
pull1D
Entries 92
Mean 0.001579
Std Dev 0.2109

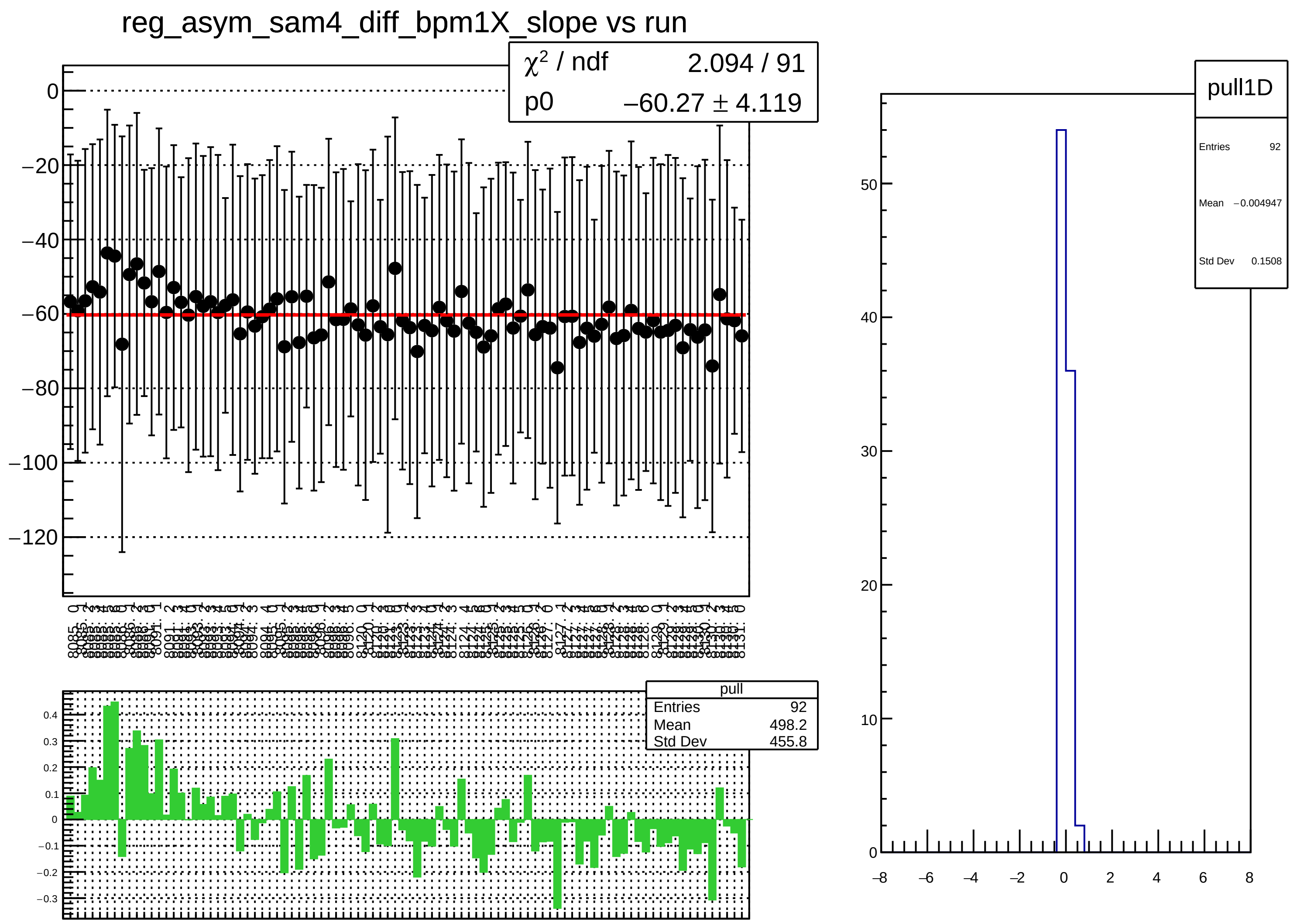


reg_asym_sam3_diff_bpm4eX_slope vs run
χ^2 / ndf 3.92 / 91
p0 −83.33 ± 2.641
pull
Entries 92
Mean 3.617e+04
Std Dev 3.612e+04
pull1D
Entries 92
Mean 0.0001002
Std Dev 0.2064

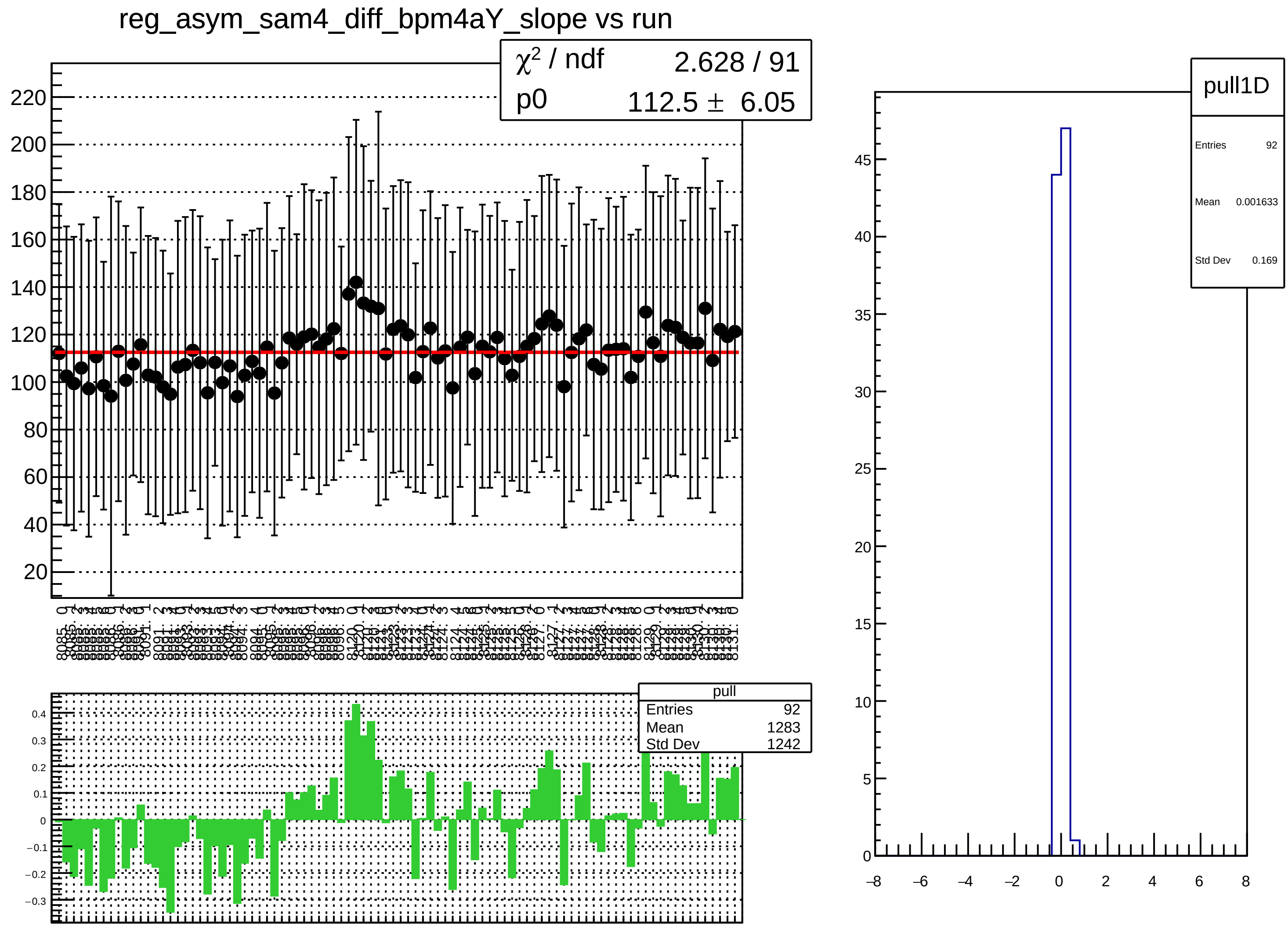


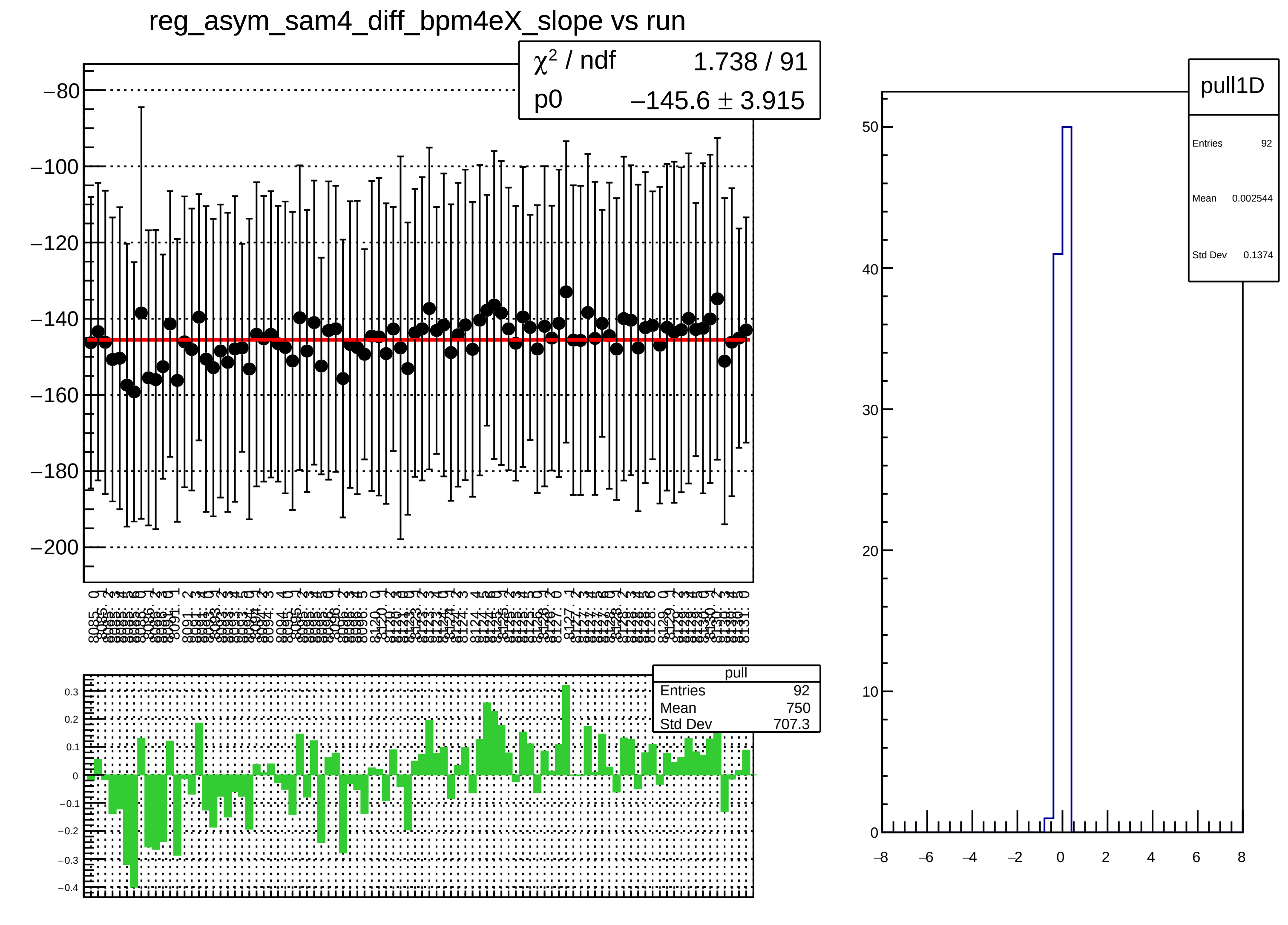
reg_asym_sam3_diff_bpm4eY_slope vs run
χ2 / ndf 4.061 / 91
p0 20.89 ± 4.356
pull
Entries 92
Mean 362.2
Std Dev 321.2
pull1D
Entries 92
Mean −0.001682
Std Dev 0.2101


reg_asym_sam3_diff_bpm12X_slope vs run
χ^2 / ndf 6.034 / 91
p0 −0.4898 ± 0.1664
pull
Entries 92
Mean −551
Std Dev 585.2
pull1D
Entries 92
Mean 0.003319
Std Dev 0.2561

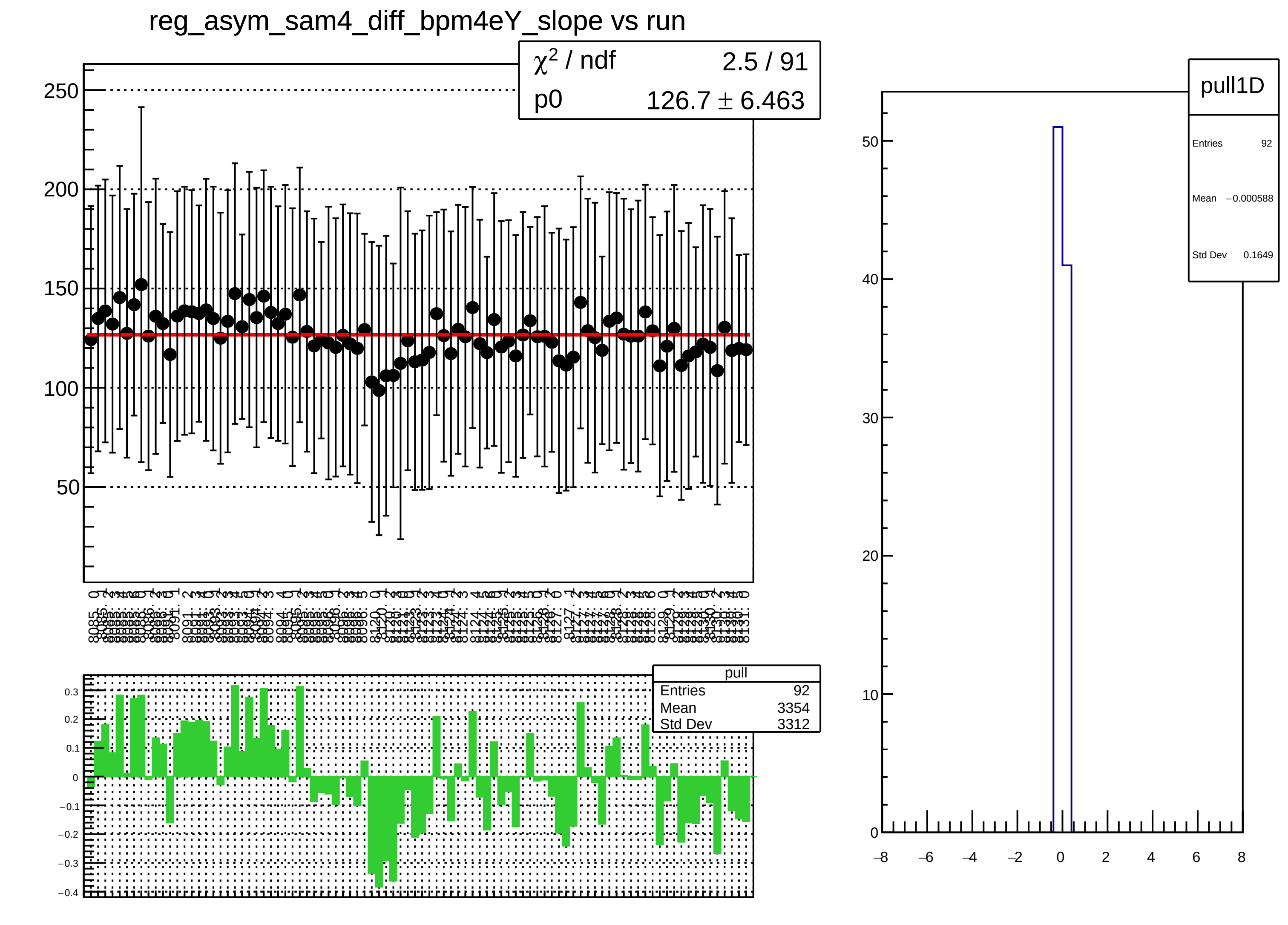


reg_asym_sam4_diff_bpm1X_slope vs run
χ^2 / ndf 2.094 / 91
p0 −60.27 ± 4.119
pull
Entries 92
Mean 498.2
Std Dev 455.8
pull1D
Entries 92
Mean −0.004947
Std Dev 0.1508

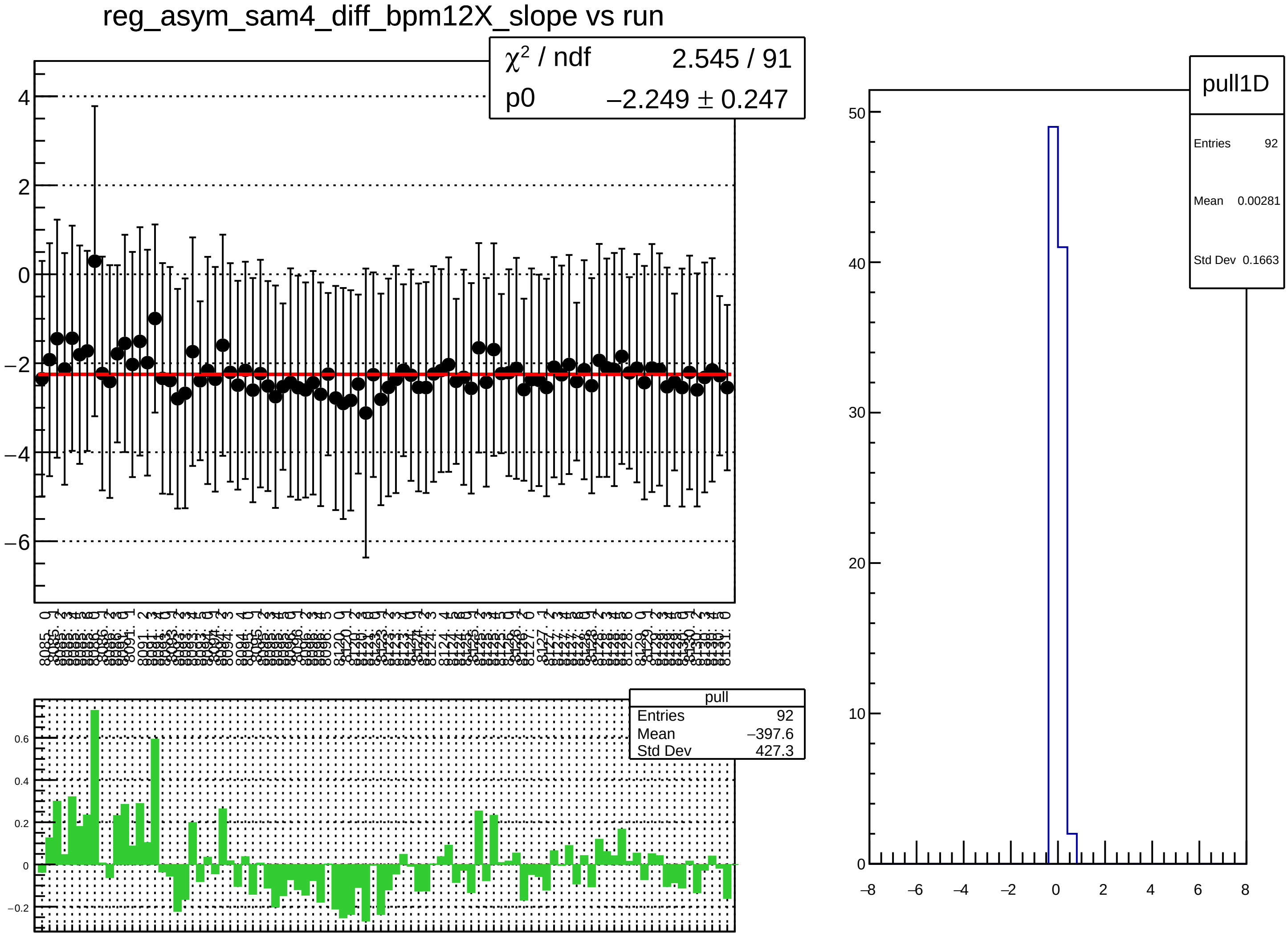

reg_asym_sam4_diff_bpm4aY_slope vs run
χ^2 / ndf 2.628 / 91
p0 112.5 ± 6.05
pull
Entries 92
Mean 1283
Std Dev 1242
pull1D
Entries 92
Mean 0.001633
Std Dev 0.169



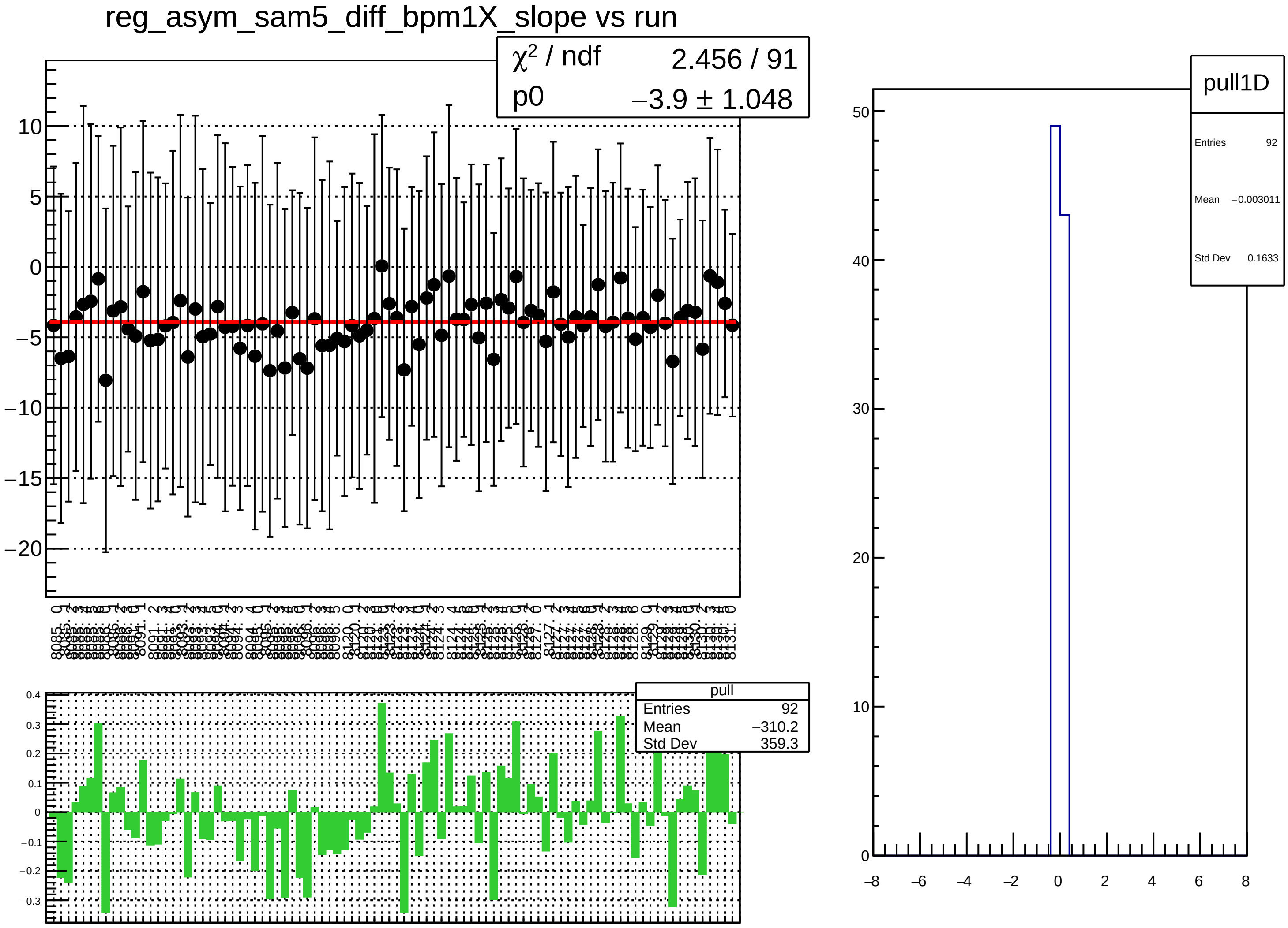
reg_asym_sam4_diff_bpm4eX_slope vs run
χ2 / ndf 1.738 / 91
p0 −145.6 ± 3.915
pull
Entries 92
Mean 750
Std Dev 707.3
pull1D
Entries 92
Mean 0.002544
Std Dev 0.1374

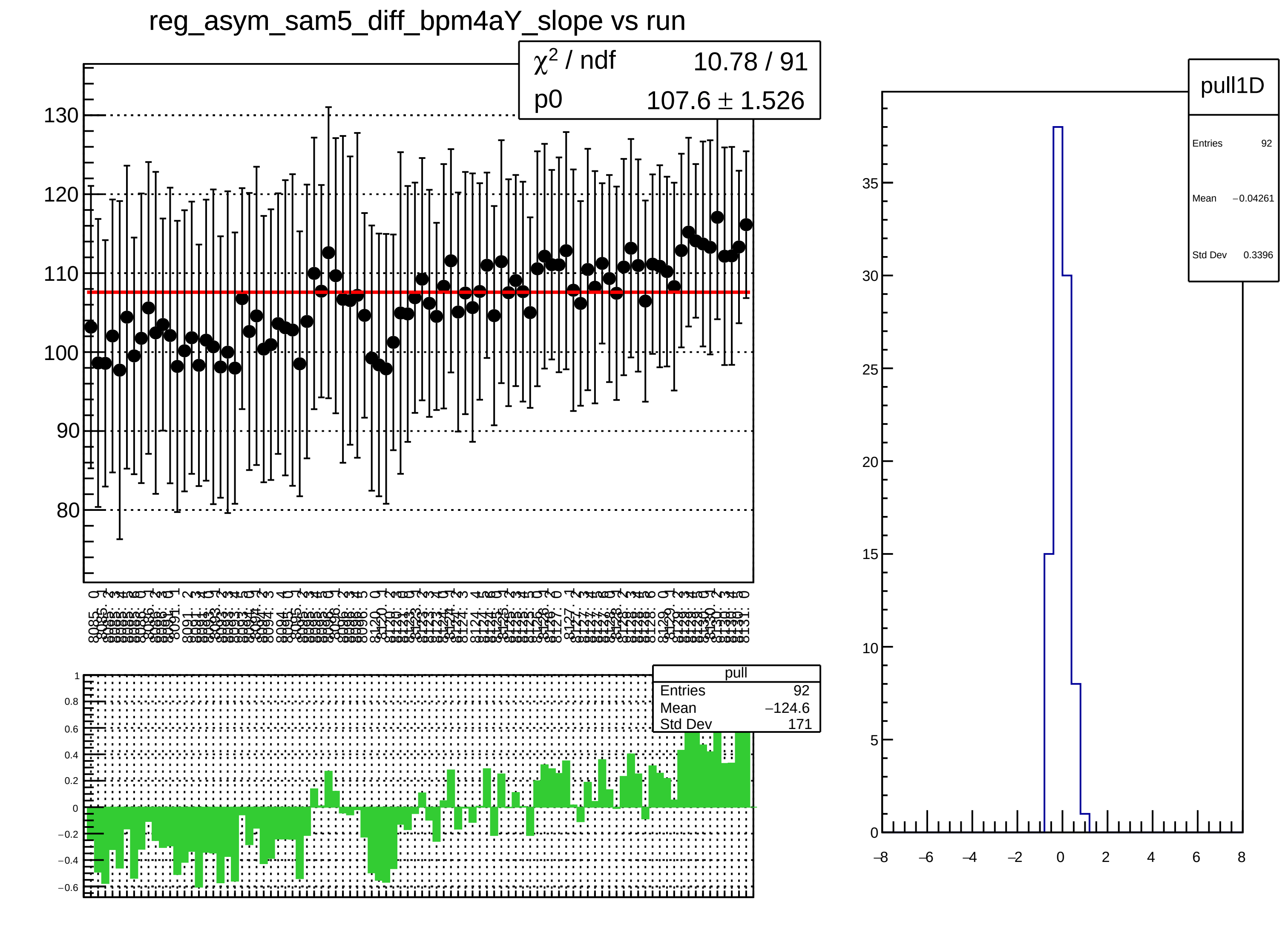


reg_asym_sam4_diff_bpm4eY_slope vs run
χ^2 / ndf 2.5 / 91
p0 126.7 ± 6.463
pull
Entries 92
Mean 3354
Std Dev 3312
pull1D
Entries 92
Mean −0.000588
Std Dev 0.1649

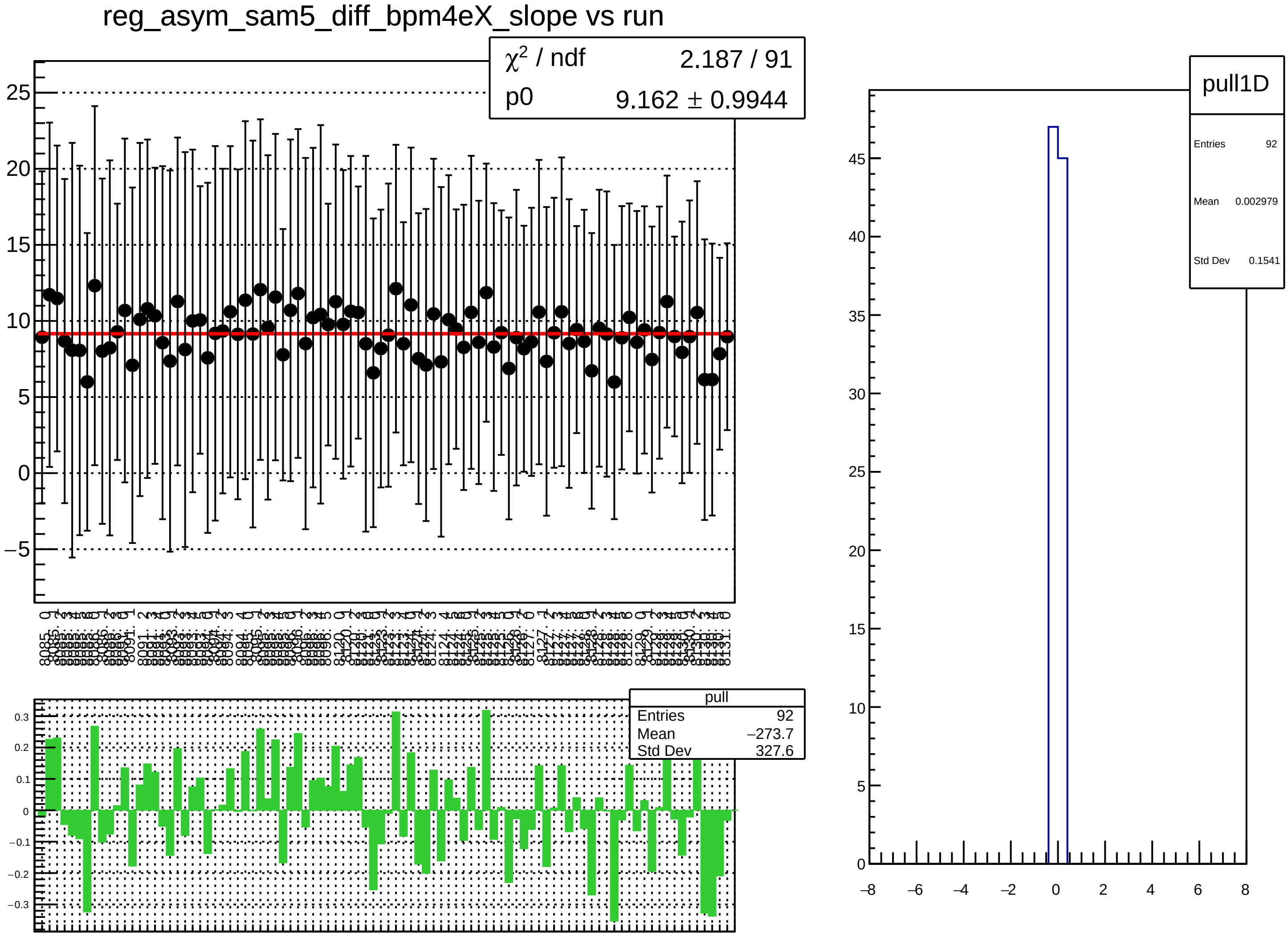


reg_asym_sam4_diff_bpm12X_slope vs run
χ2 / ndf 2.545 / 91
p0 −2.249 ± 0.247
pull
Entries 92
Mean −397.6
Std Dev 427.3
pull1D
Entries 92
Mean 0.00281
Std Dev 0.1663

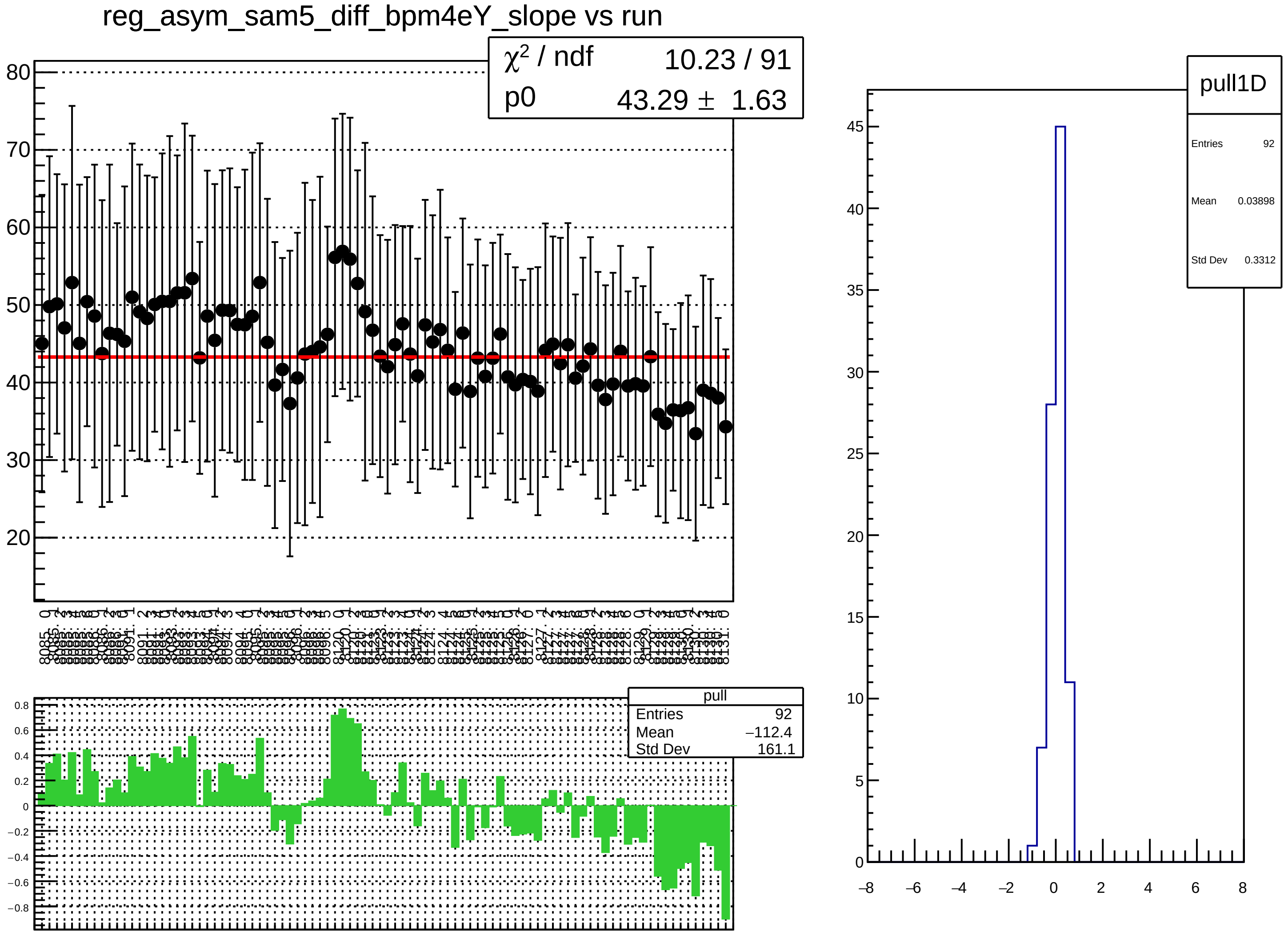

reg_asym_sam5_diff_bpm1X_slope vs run
χ^2 / ndf 2.456 / 91
p0 −3.9 ± 1.048
pull
Entries 92
Mean −310.2
Std Dev 359.3
pull1D
Entries 92
Mean −0.003011
Std Dev 0.1633



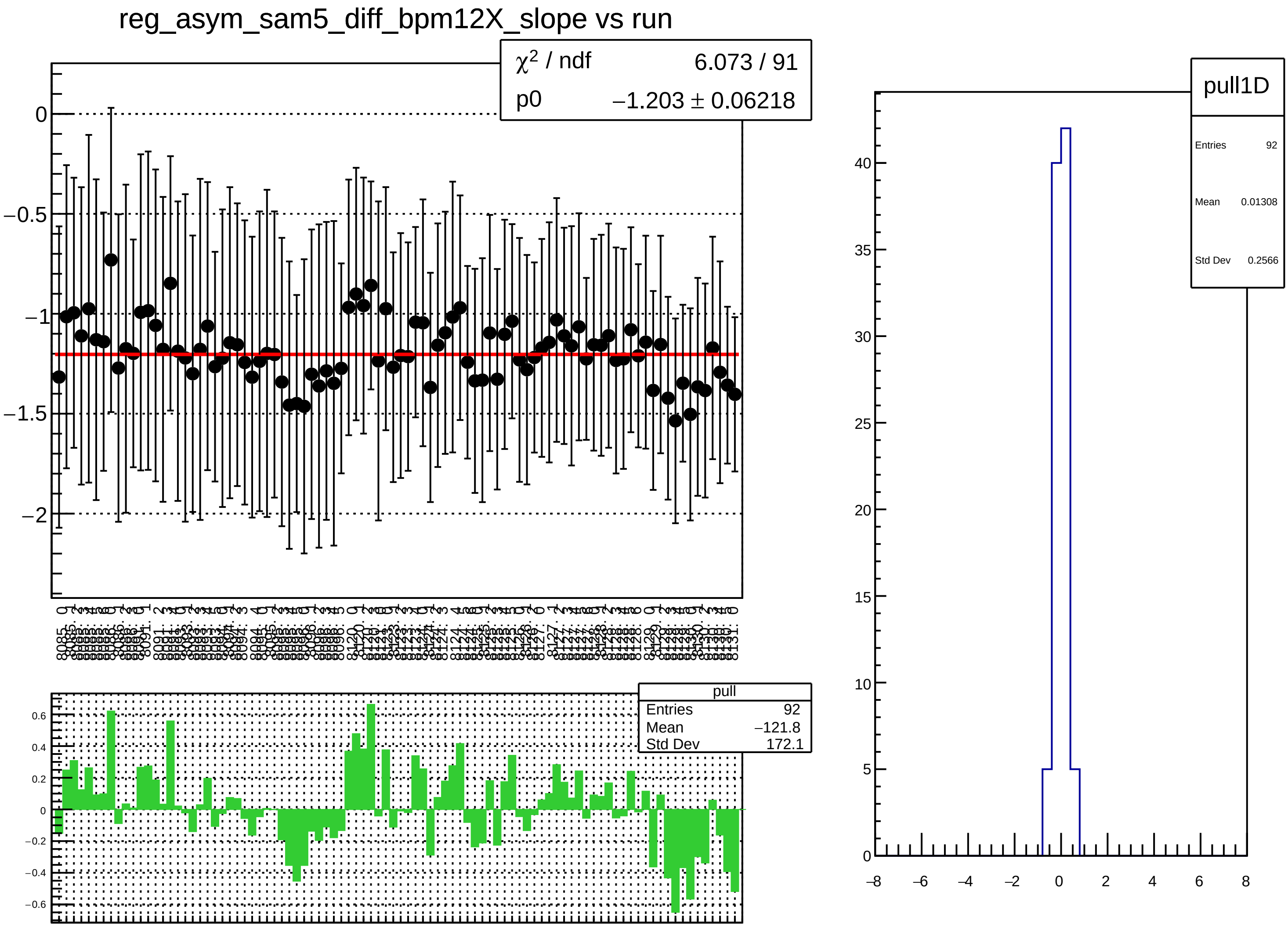
reg_asym_sam5_diff_bpm4aY_slope vs run
χ^2 / ndf 10.78 / 91
p0 107.6 ± 1.526
pull
Entries 92
Mean −124.6
Std Dev 171
pull1D
Entries 92
Mean −0.04261
Std Dev 0.3396

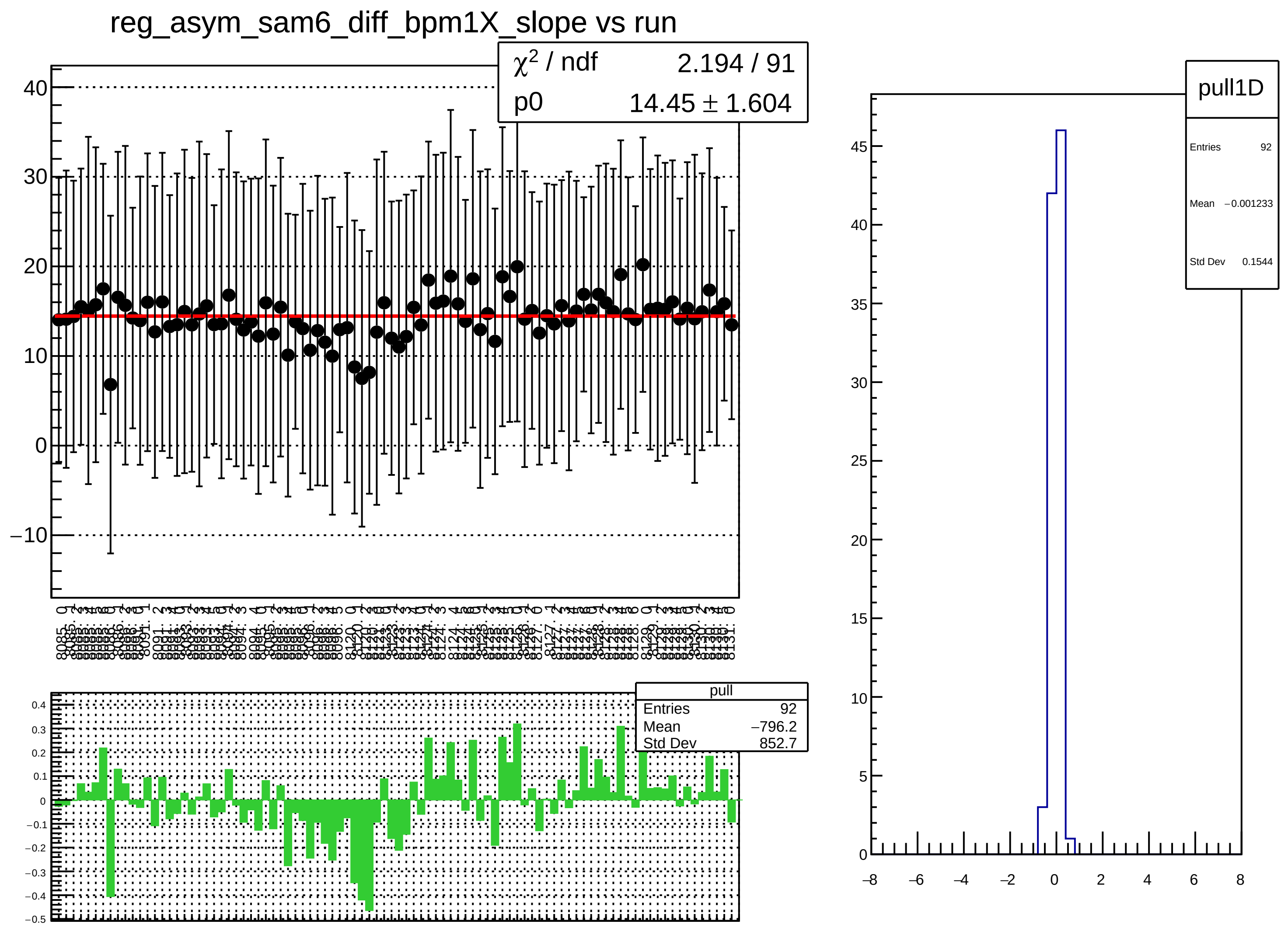


reg_asym_sam5_diff_bpm4eX_slope vs run
χ^2 / ndf 2.187 / 91
p0 9.162 ± 0.9944
pull
Entries 92
Mean −273.7
Std Dev 327.6
pull1D
Entries 92
Mean 0.002979
Std Dev 0.1541

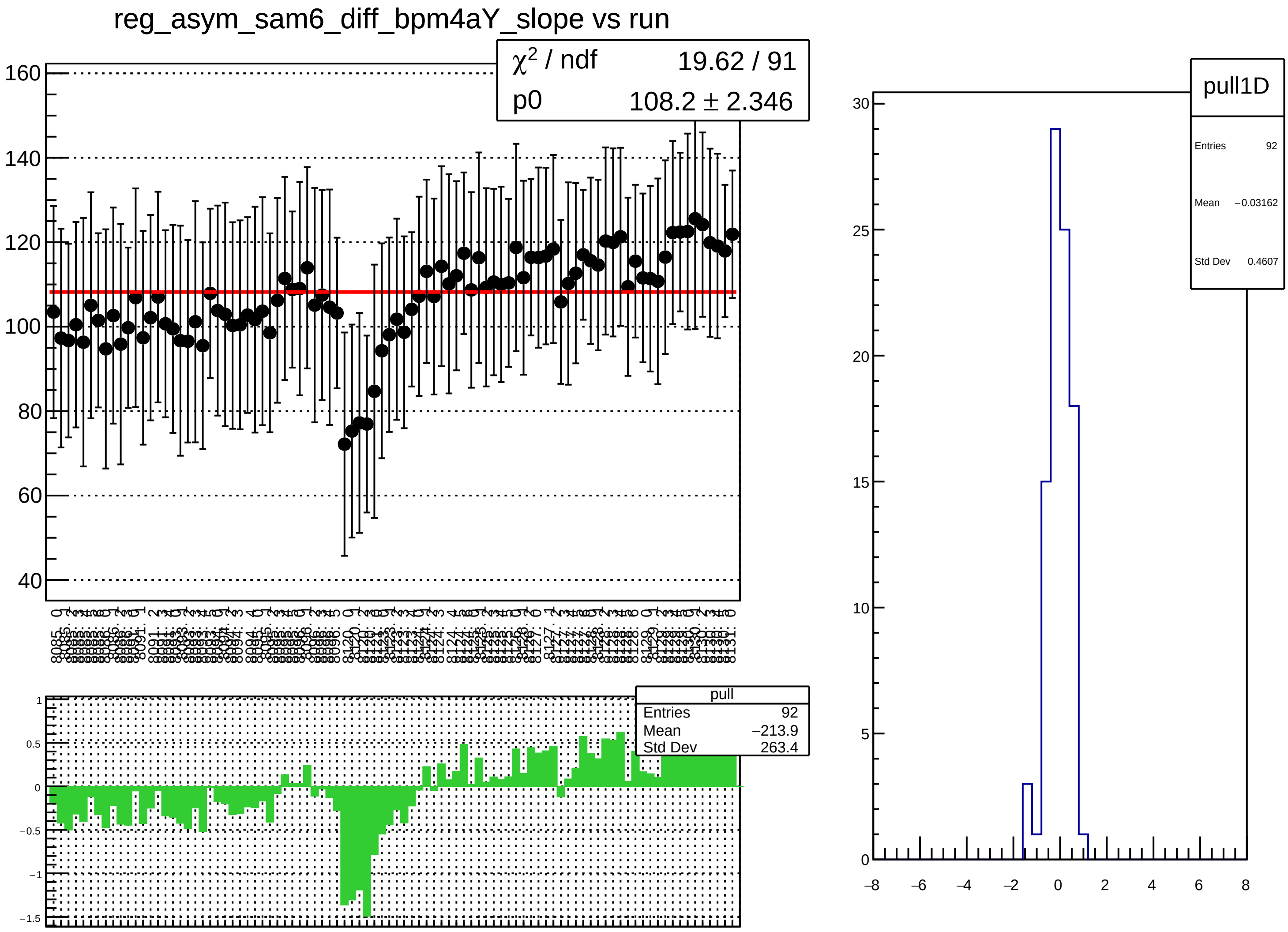


reg_asym_sam5_diff_bpm4eY_slope vs run
χ^2 / ndf 10.23 / 91
p0 43.29 ± 1.63
pull
Entries 92
Mean −112.4
Std Dev 161.1
pull1D
Entries 92
Mean 0.03898
Std Dev 0.3312

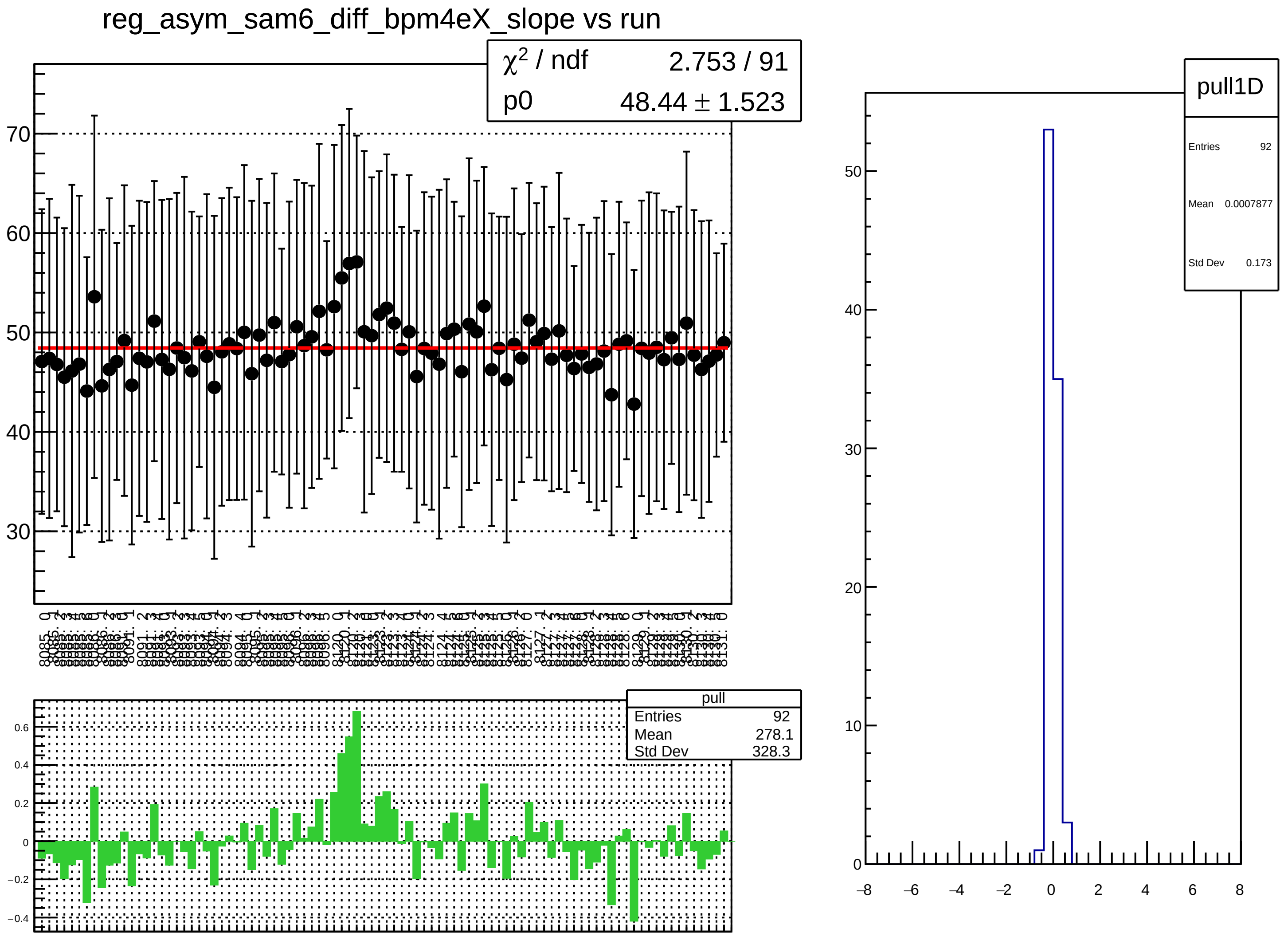

reg_asym_sam5_diff_bpm12X_slope vs run
χ^2 / ndf 6.073 / 91
p0 −1.203 ± 0.06218
pull
Entries 92
Mean −121.8
Std Dev 172.1
pull1D
Entries 92
Mean 0.01308
Std Dev 0.2566



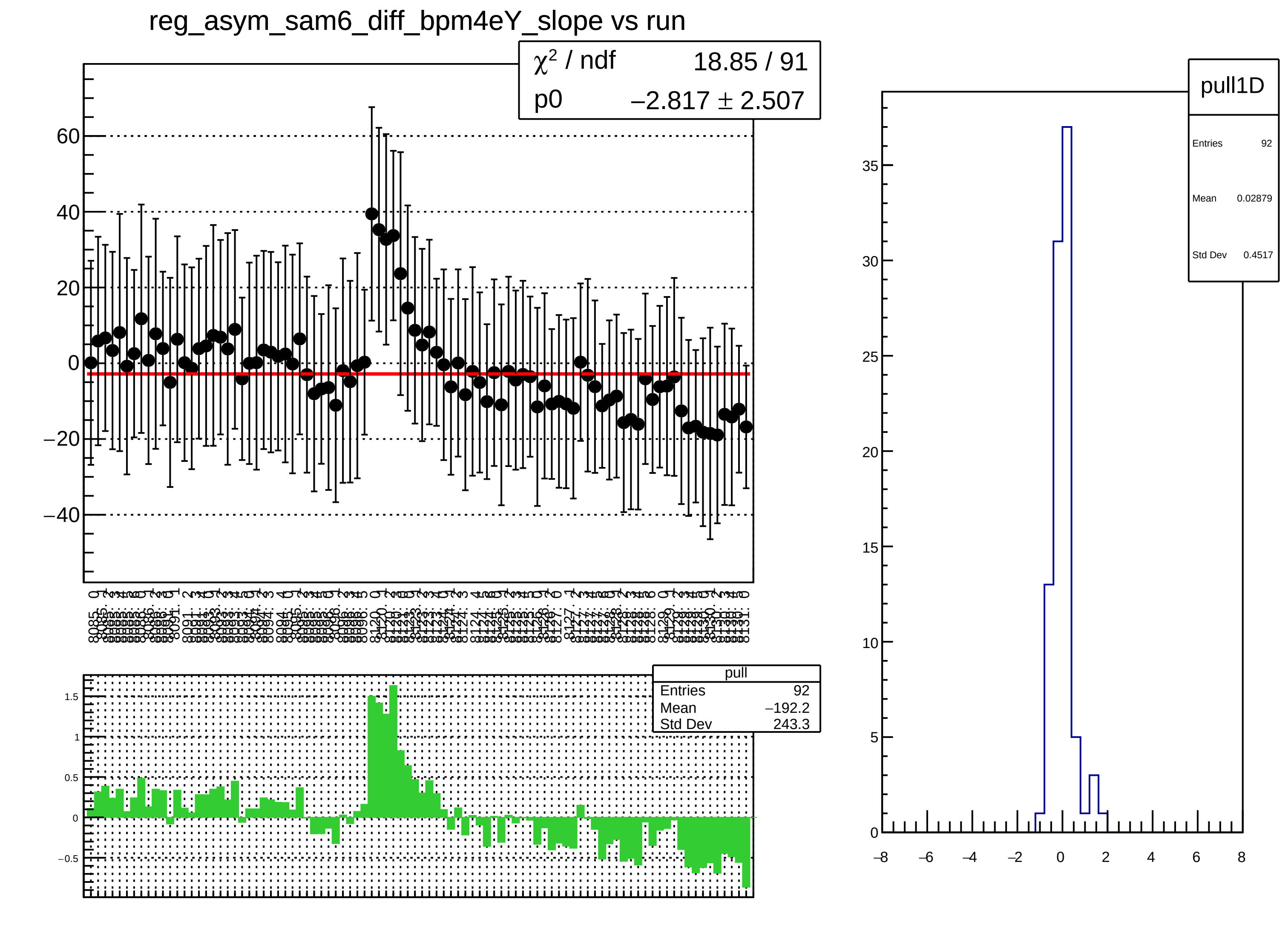
reg_asym_sam6_diff_bpm1X_slope vs run
χ^2 / ndf 2.194 / 91
p0 14.45 ± 1.604
40
30
20
10
0
−10
pull
Entries 92
Mean −796.2
Std Dev 852.7
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
−0.5
pull1D
Entries 92
Mean −0.001233
Std Dev 0.1544
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



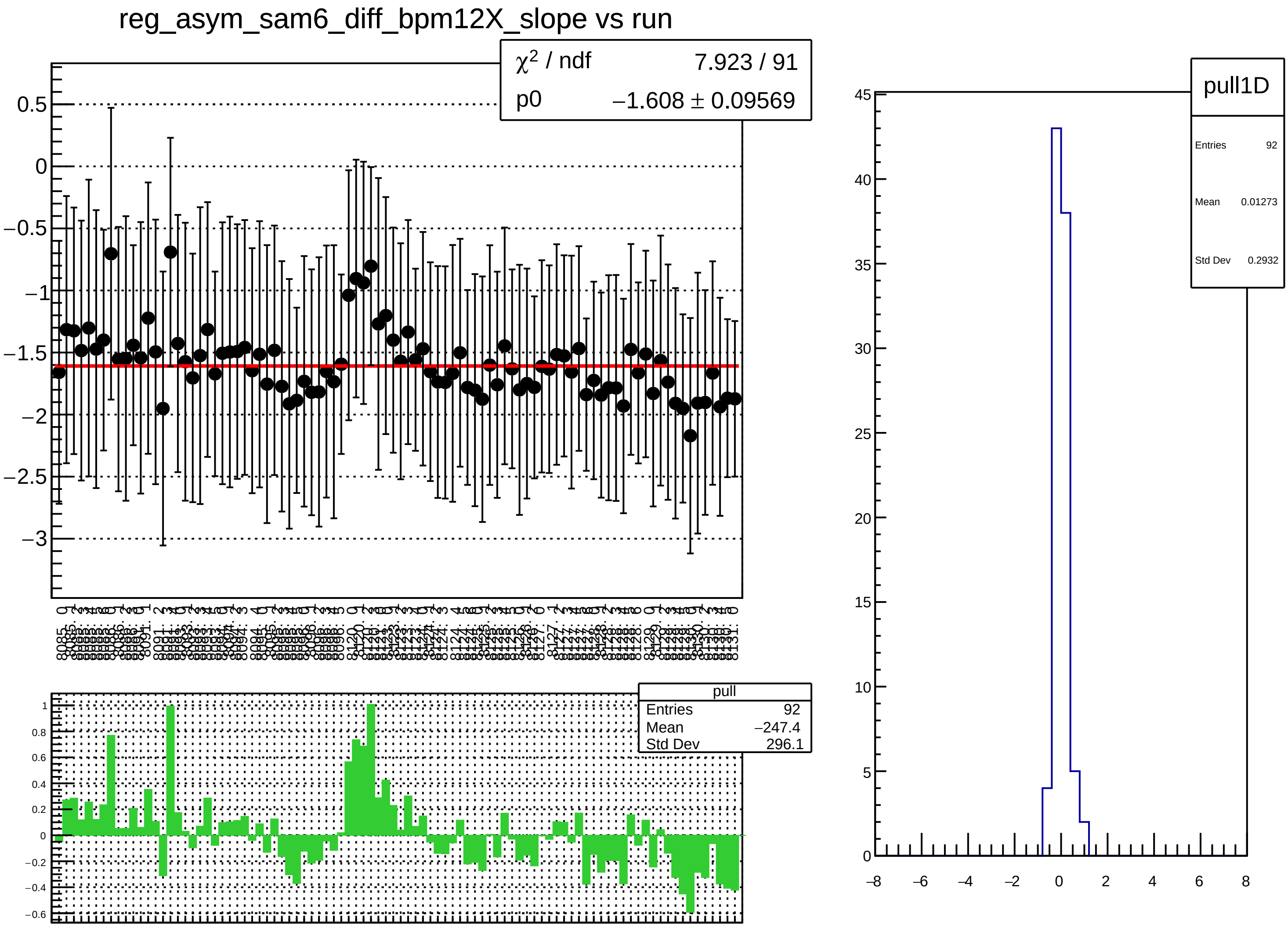
reg_asym_sam6_diff_bpm4aY_slope vs run
χ^2 / ndf 19.62 / 91
p0 108.2 ± 2.346
160
140
120
100
80
60
40
pull
Entries 92
Mean −213.9
Std Dev 263.4
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 92
Mean −0.03162
Std Dev 0.4607
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



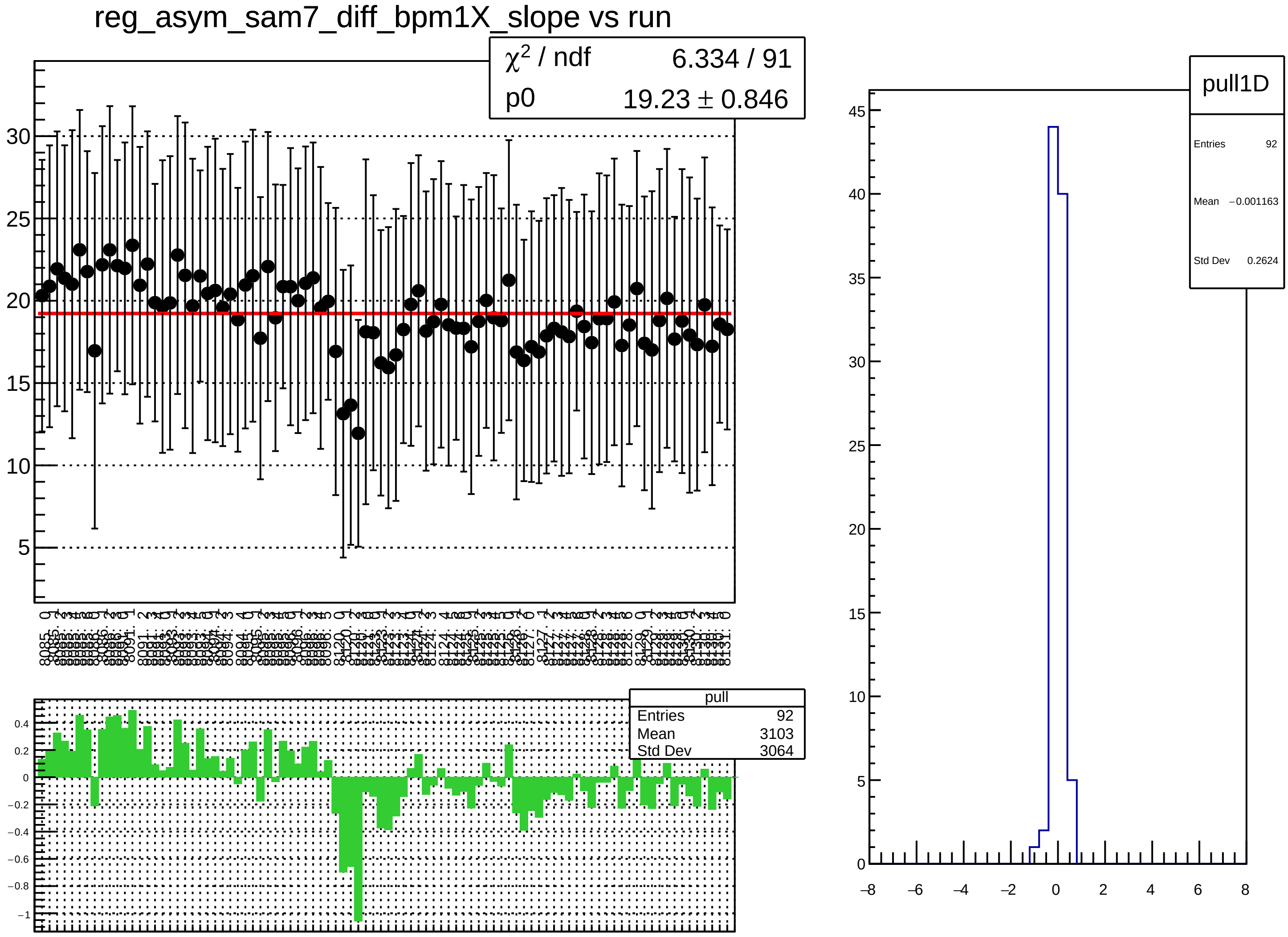
reg_asym_sam6_diff_bpm4eX_slope vs run
χ^2 / ndf 2.753 / 91
p0 48.44 ± 1.523
pull
Entries 92
Mean 278.1
Std Dev 328.3
pull1D
Entries 92
Mean 0.0007877
Std Dev 0.173

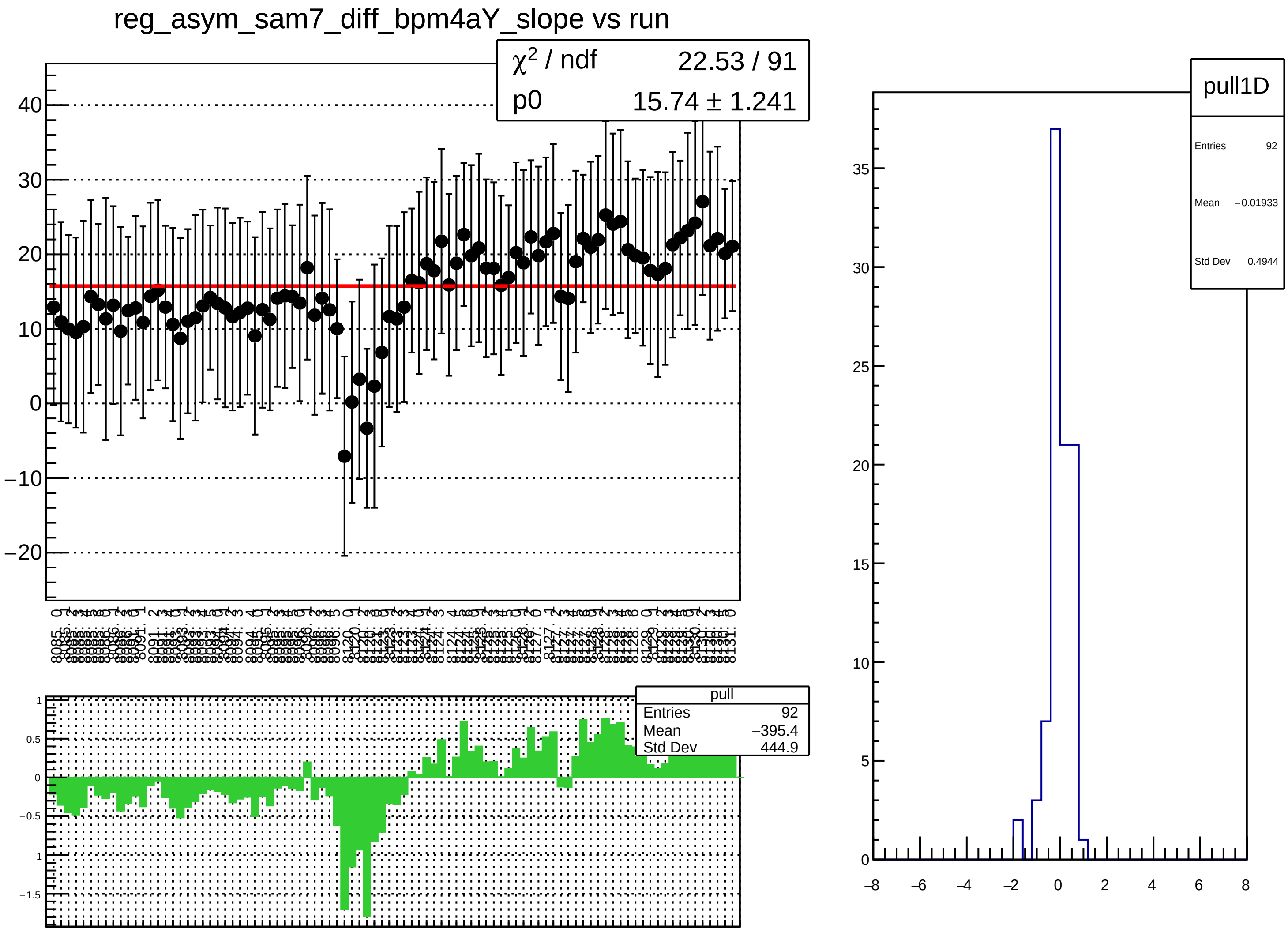


reg_asym_sam6_diff_bpm4eY_slope vs run
χ^2 / ndf 18.85 / 91
p0 −2.817 ± 2.507
pull
Entries 92
Mean −192.2
Std Dev 243.3
pull1D
Entries 92
Mean 0.02879
Std Dev 0.4517

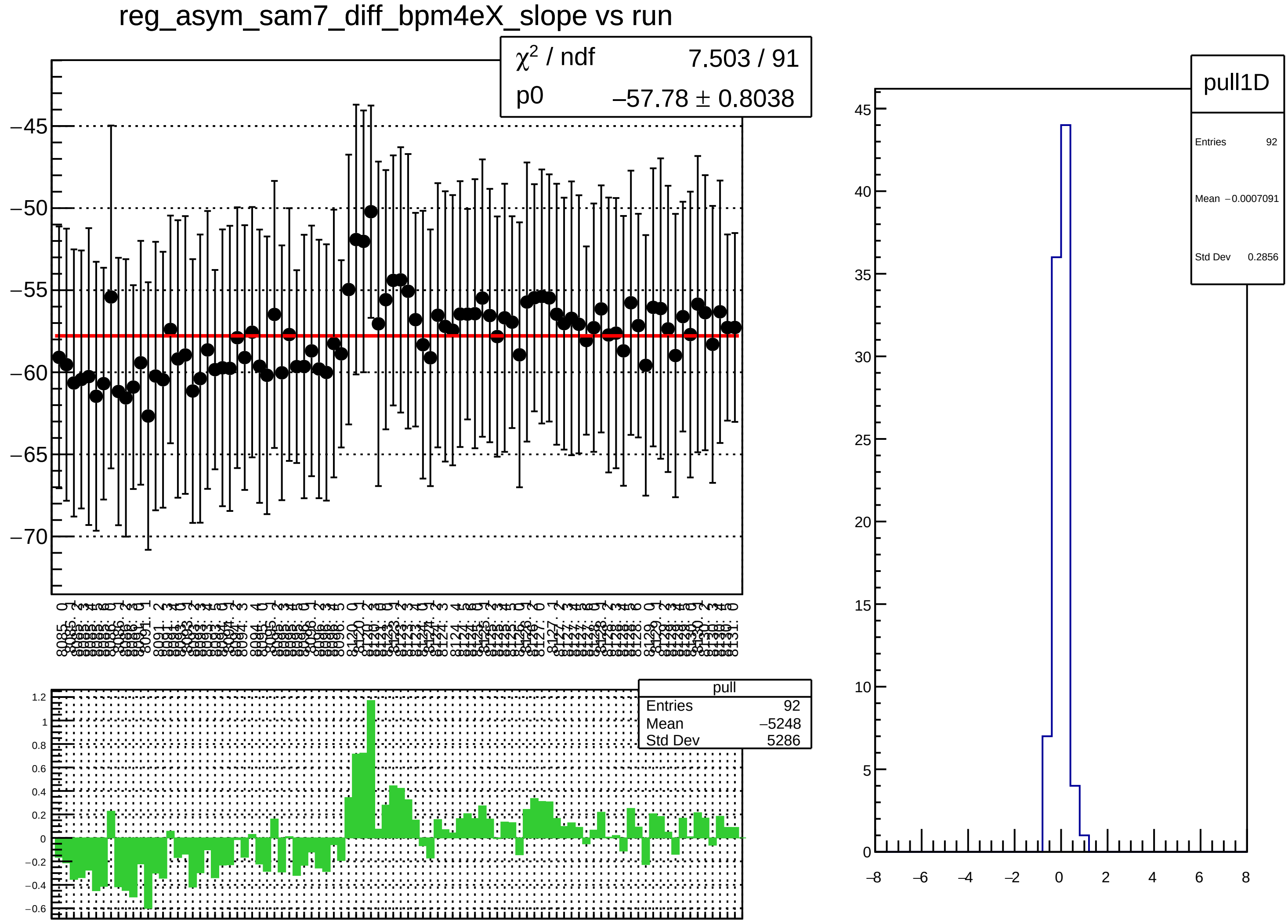


reg_asym_sam6_diff_bpm12X_slope vs run
χ2 / ndf 7.923 / 91
p0 −1.608 ± 0.09569
pull
Entries 92
Mean −247.4
Std Dev 296.1
pull1D
Entries 92
Mean 0.01273
Std Dev 0.2932

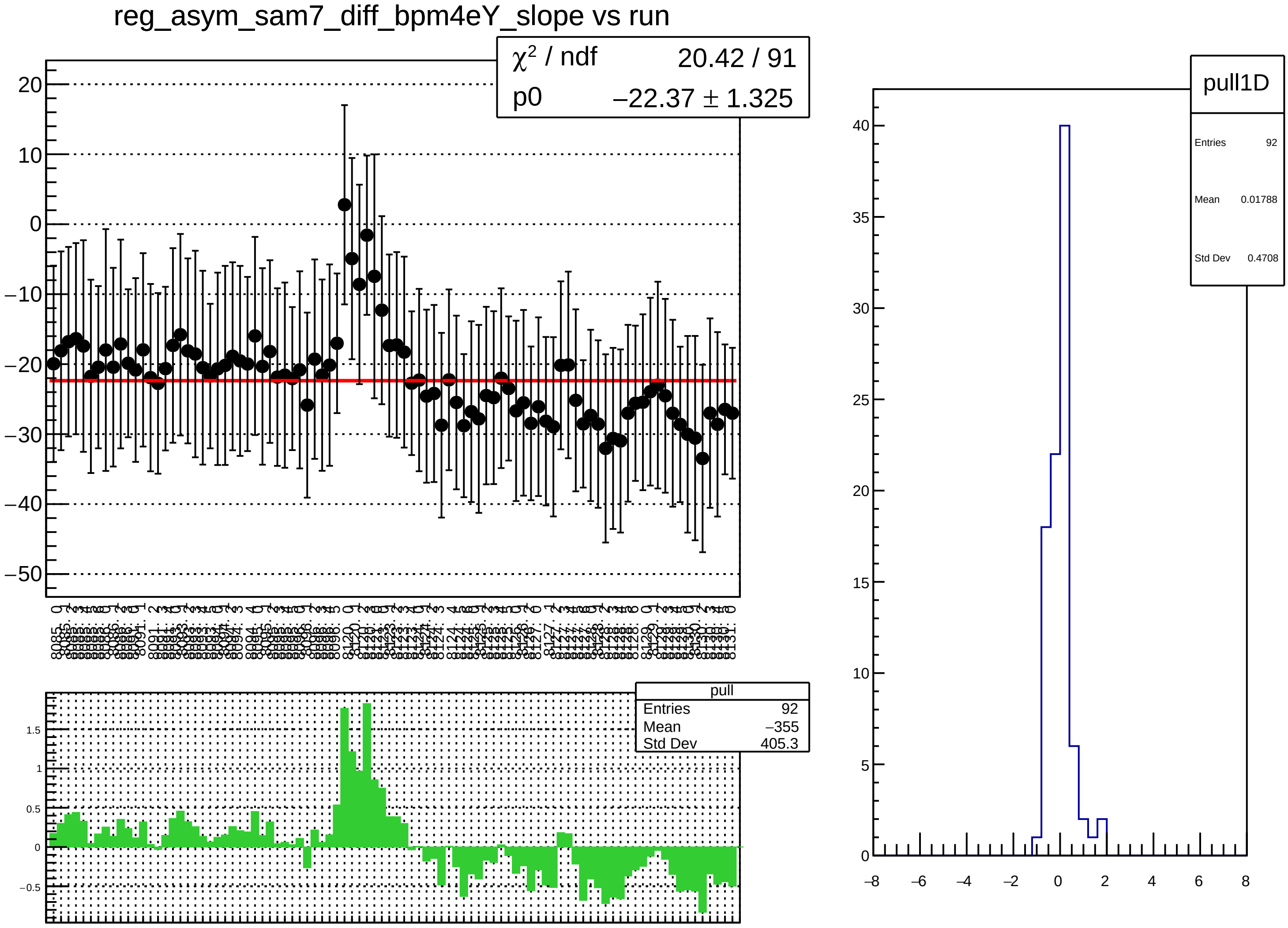

reg_asym_sam7_diff_bpm1X_slope vs run
χ^2 / ndf 6.334 / 91
p0 19.23 ± 0.846
pull
Entries 92
Mean 3103
Std Dev 3064
pull1D
Entries 92
Mean −0.001163
Std Dev 0.2624



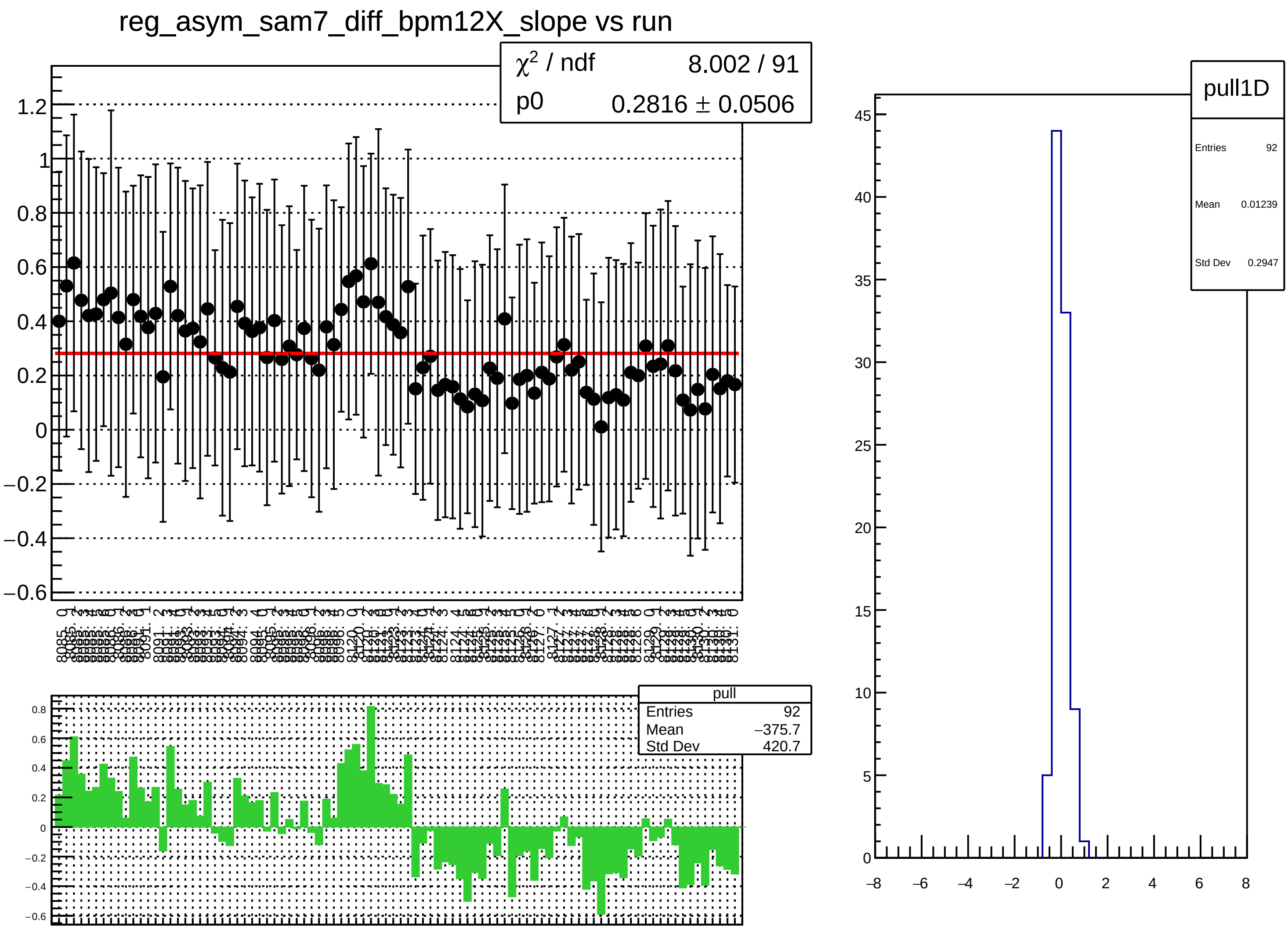
reg_asym_sam7_diff_bpm4aY_slope vs run
χ^2 / ndf 22.53 / 91
p0 15.74 ± 1.241
pull
Entries 92
Mean −395.4
Std Dev 444.9
pull1D
Entries 92
Mean −0.01933
Std Dev 0.4944



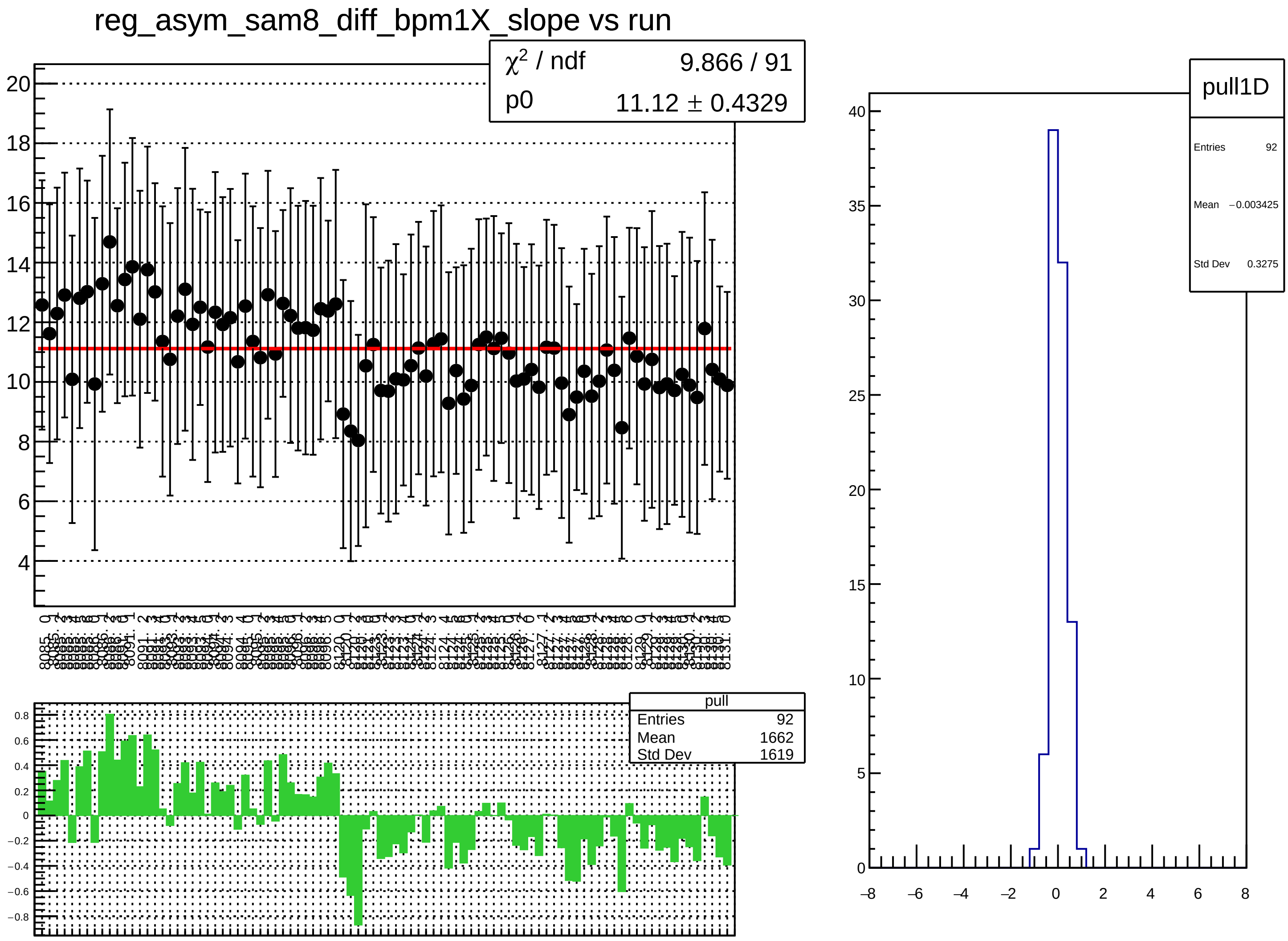
reg_asym_sam7_diff_bpm4eX_slope vs run
χ^2 / ndf 7.503 / 91
p0 −57.78 ± 0.8038
pull
Entries 92
Mean −5248
Std Dev 5286
pull1D
Entries 92
Mean −0.0007091
Std Dev 0.2856

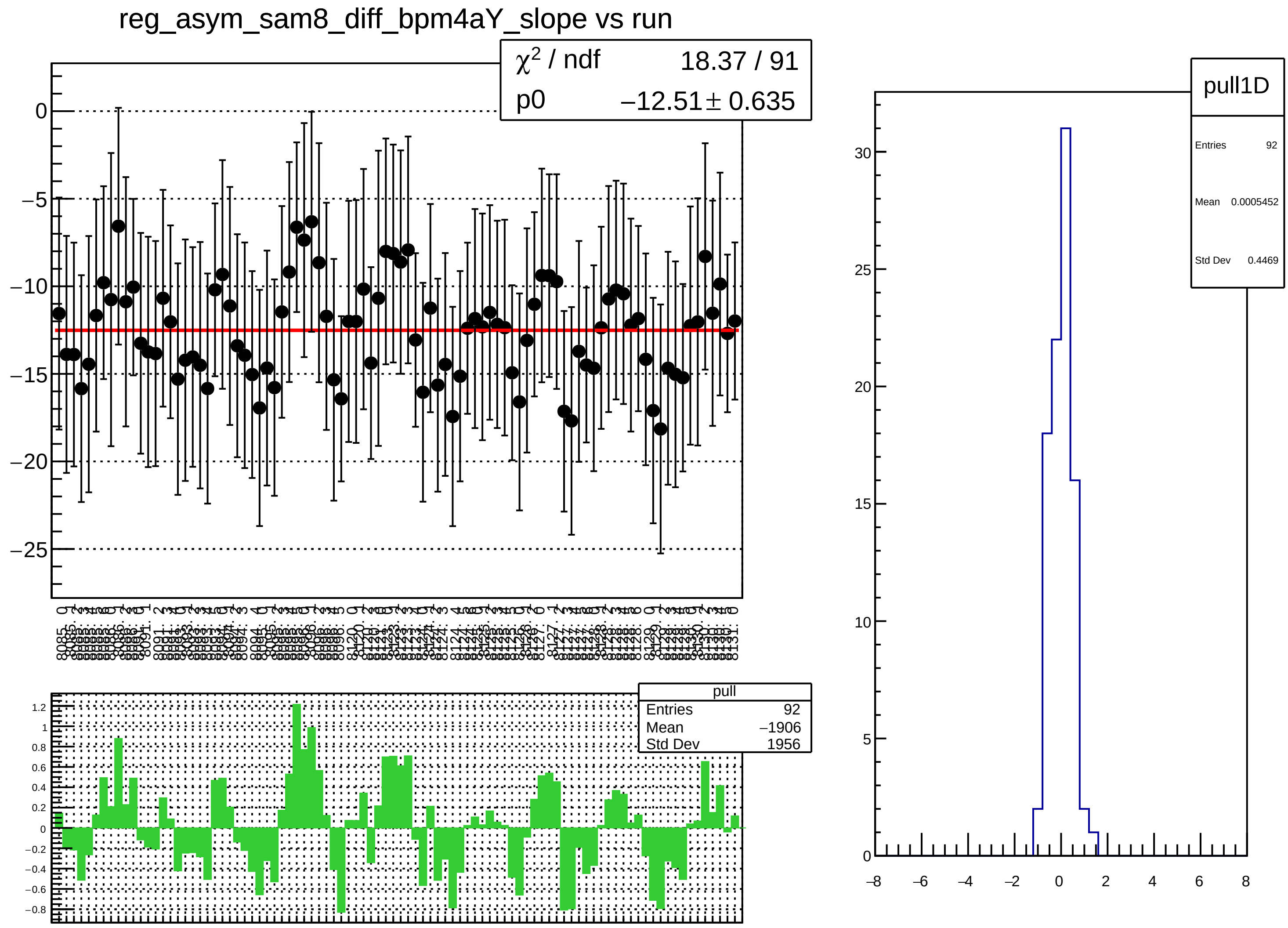


reg_asym_sam7_diff_bpm4eY_slope vs run
χ^2 / ndf 20.42 / 91
p0 −22.37 ± 1.325
pull
Entries 92
Mean −355
Std Dev 405.3
pull1D
Entries 92
Mean 0.01788
Std Dev 0.4708

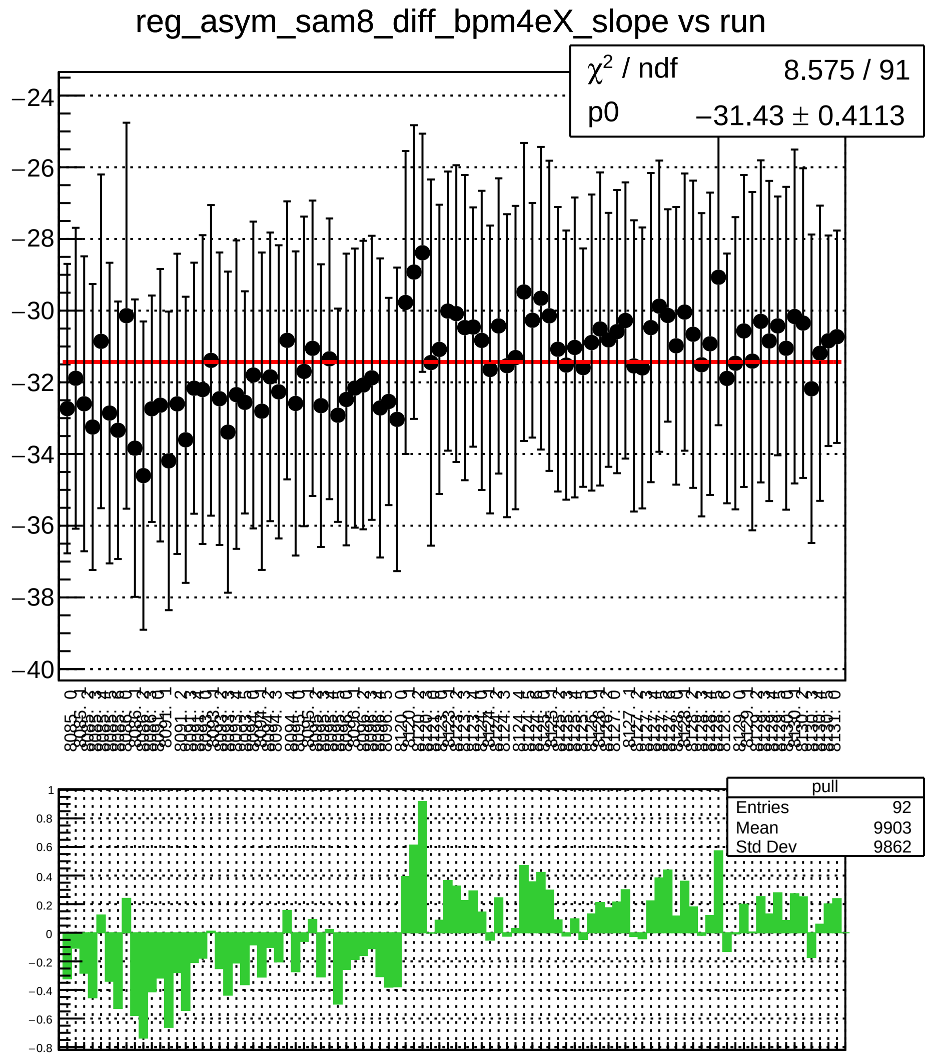


reg_asym_sam7_diff_bpm12X_slope vs run
χ^2 / ndf 8.002 / 91
p0 0.2816 ± 0.0506
pull
Entries 92
Mean −375.7
Std Dev 420.7
pull1D
Entries 92
Mean 0.01239
Std Dev 0.2947

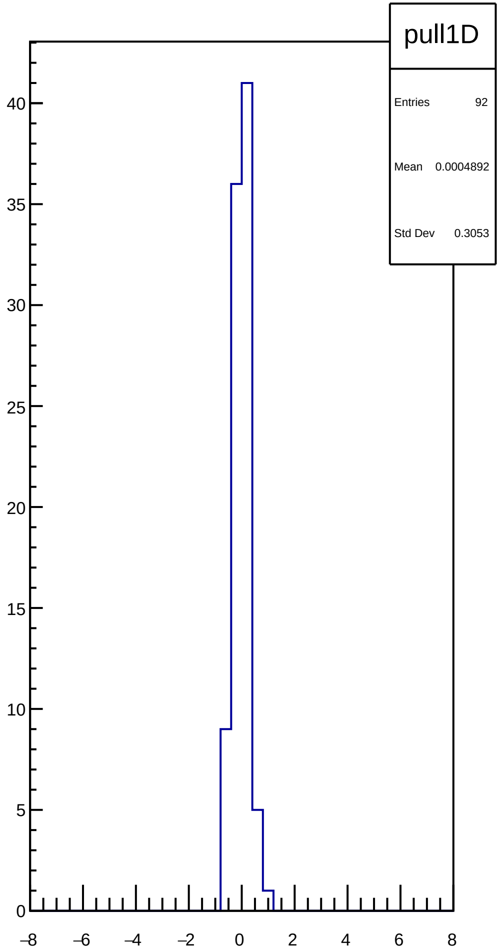

reg_asym_sam8_diff_bpm1X_slope vs run
χ^2 / ndf 9.866 / 91
p0 11.12 ± 0.4329
pull
Entries 92
Mean 1662
Std Dev 1619
pull1D
Entries 92
Mean −0.003425
Std Dev 0.3275



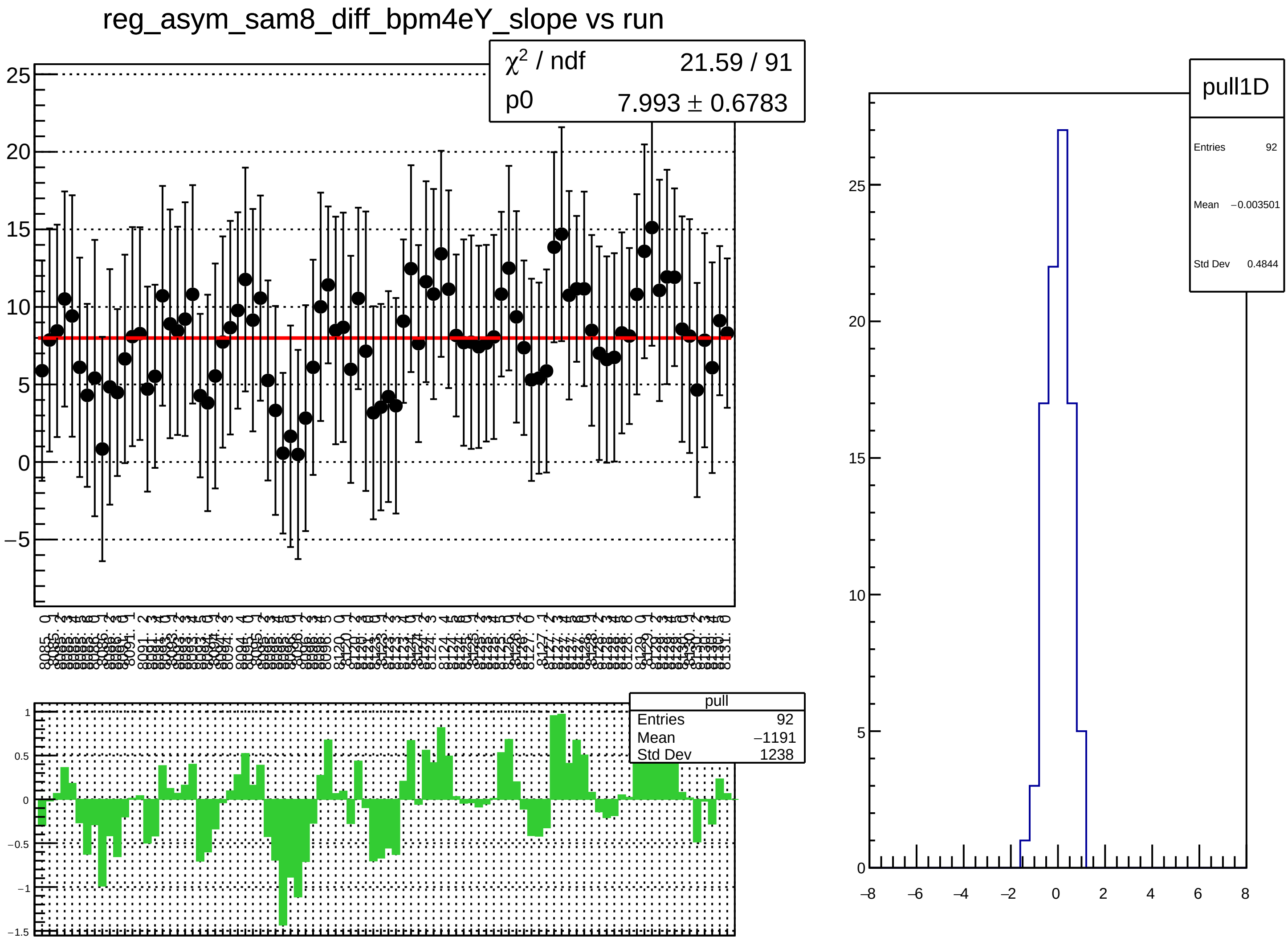
reg_asym_sam8_diff_bpm4aY_slope vs run
χ2 / ndf 18.37 / 91
p0 −12.51 ± 0.635
pull
Entries 92
Mean −1906
Std Dev 1956
pull1D
Entries 92
Mean 0.0005452
Std Dev 0.4469



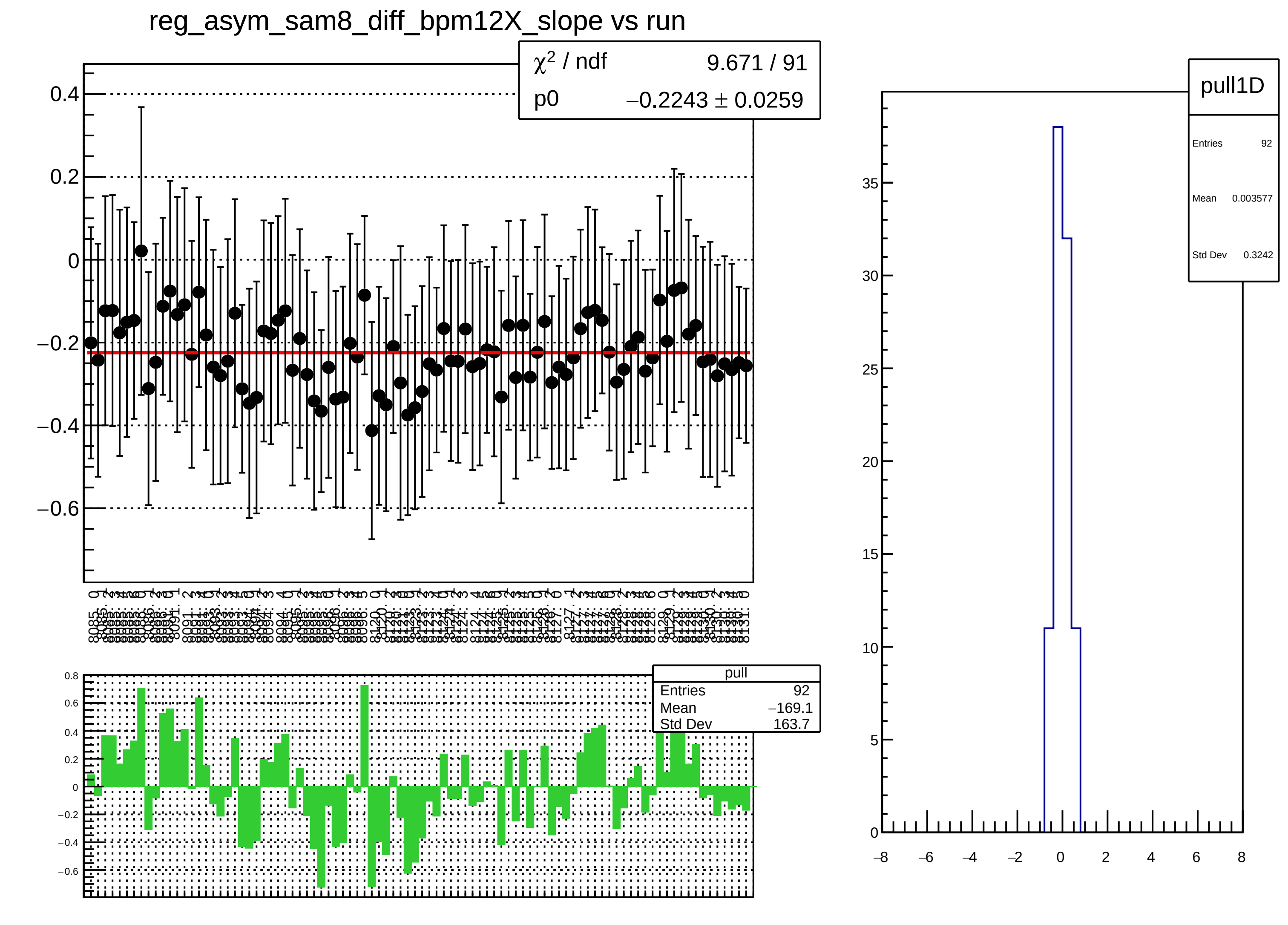
reg_asym_sam8_diff_bpm4eX_slope vs run
χ^2 / ndf 8.575 / 91
p0 −31.43 ± 0.4113
pull
Entries 92
Mean 9903
Std Dev 9862

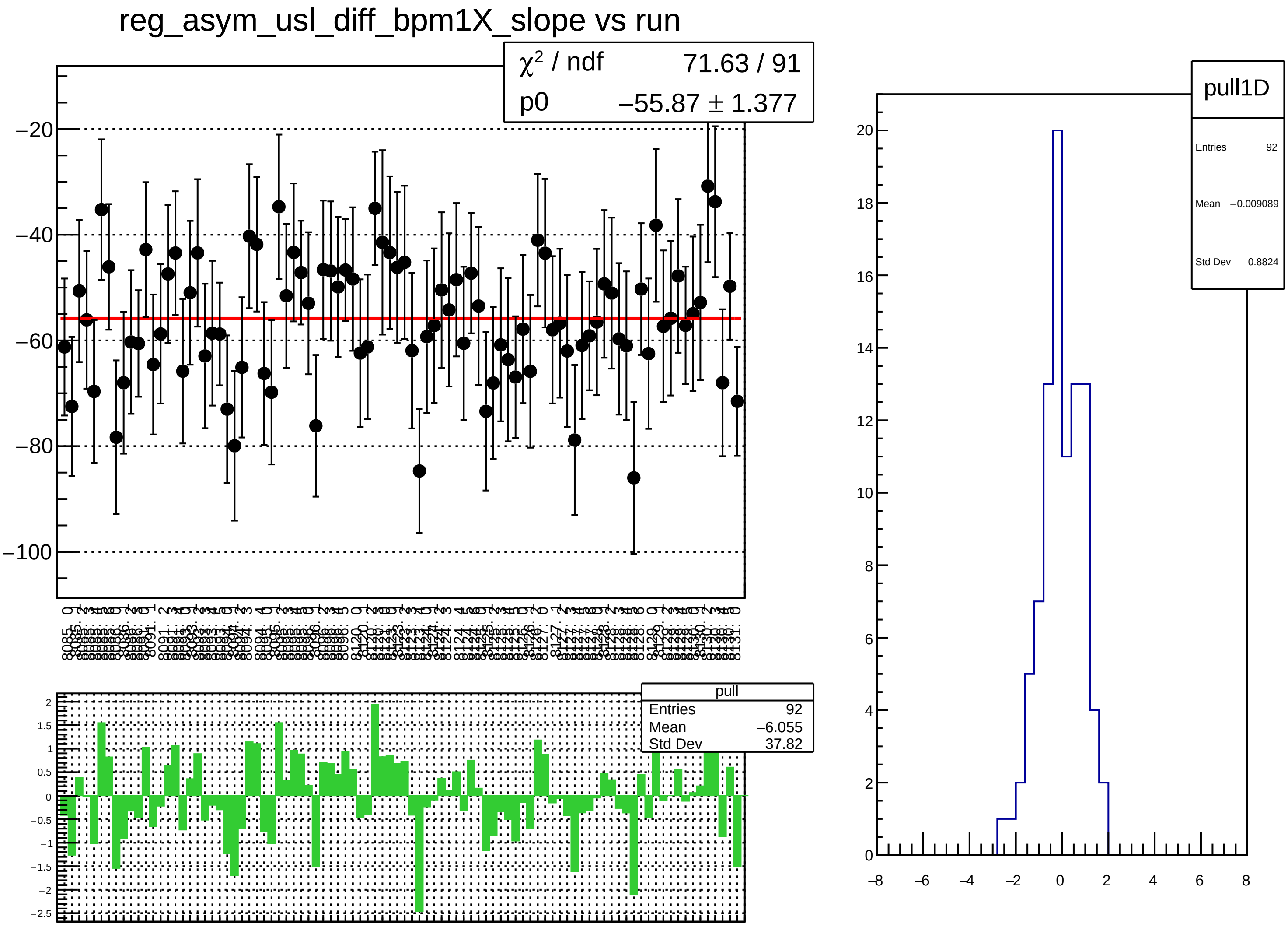


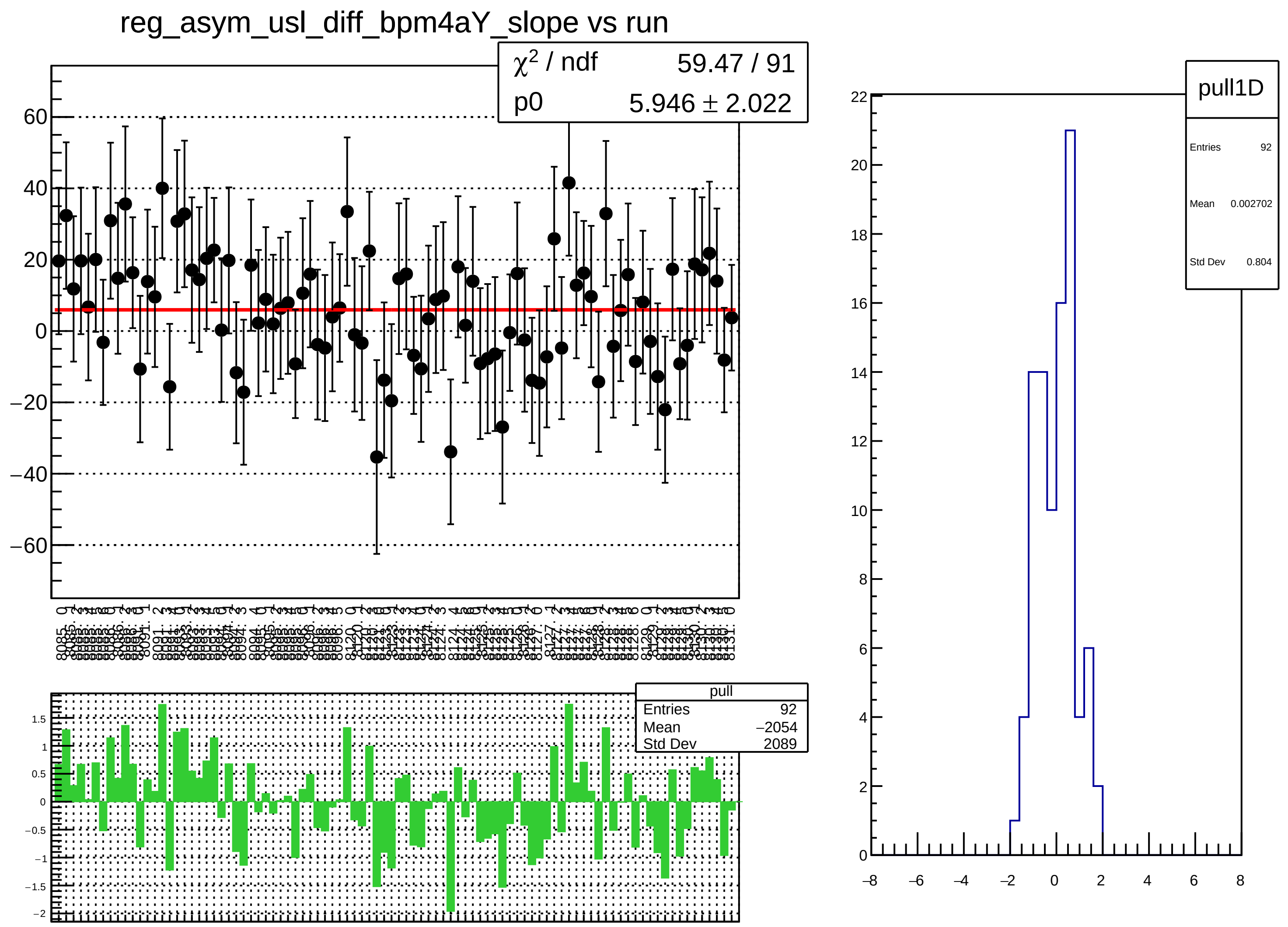
pull1D
Entries 92
Mean 0.0004892
Std Dev 0.3053



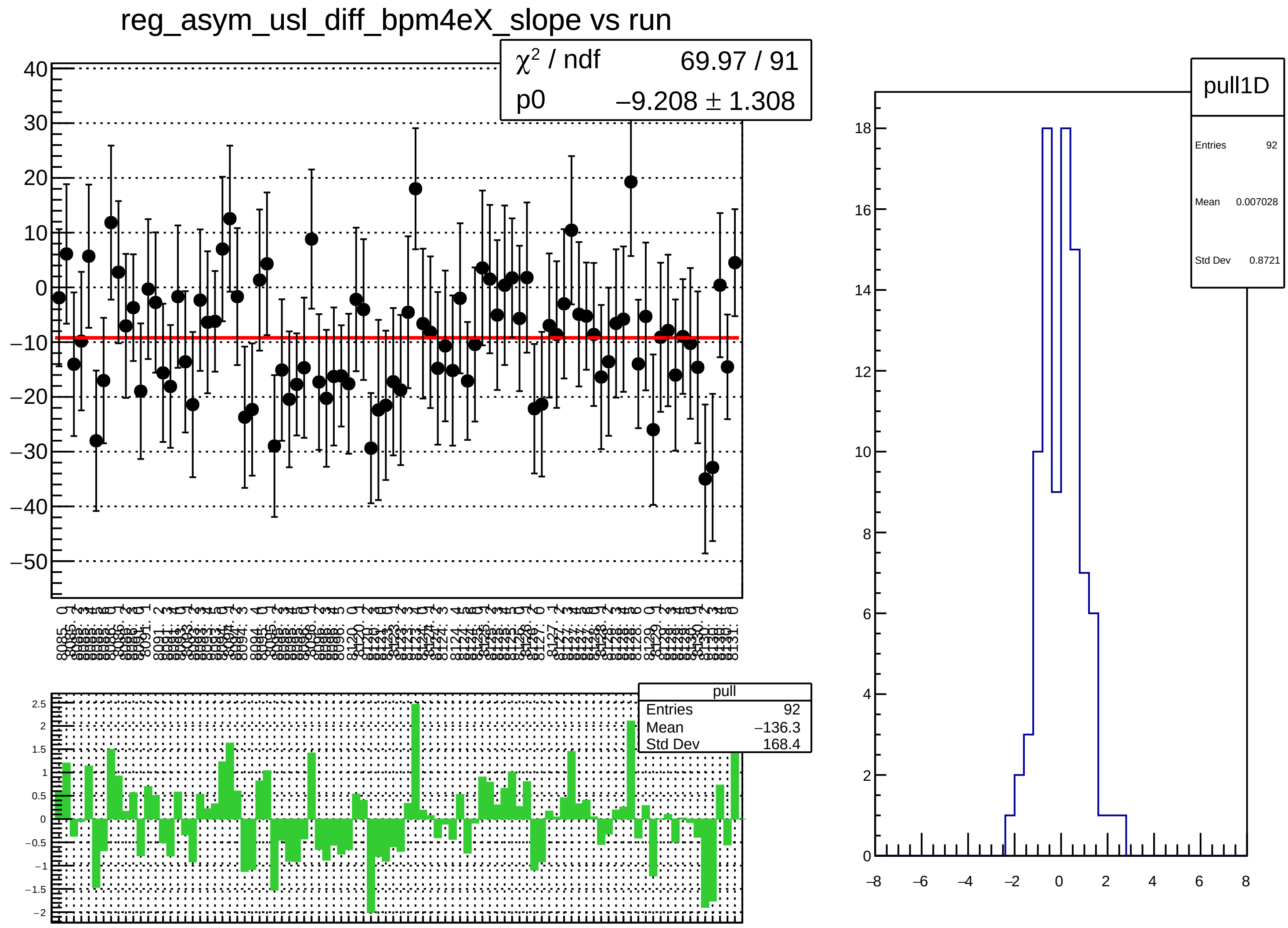
reg_asym_sam8_diff_bpm4eY_slope vs run
χ^2 / ndf 21.59 / 91
p0 7.993 ± 0.6783
pull
Entries 92
Mean −1191
Std Dev 1238
pull1D
Entries 92
Mean −0.003501
Std Dev 0.4844


reg_asym_sam8_diff_bpm12X_slope vs run
χ^2 / ndf 9.671 / 91
p0 −0.2243 ± 0.0259
pull
Entries 92
Mean −169.1
Std Dev 163.7
pull1D
Entries 92
Mean 0.003577
Std Dev 0.3242

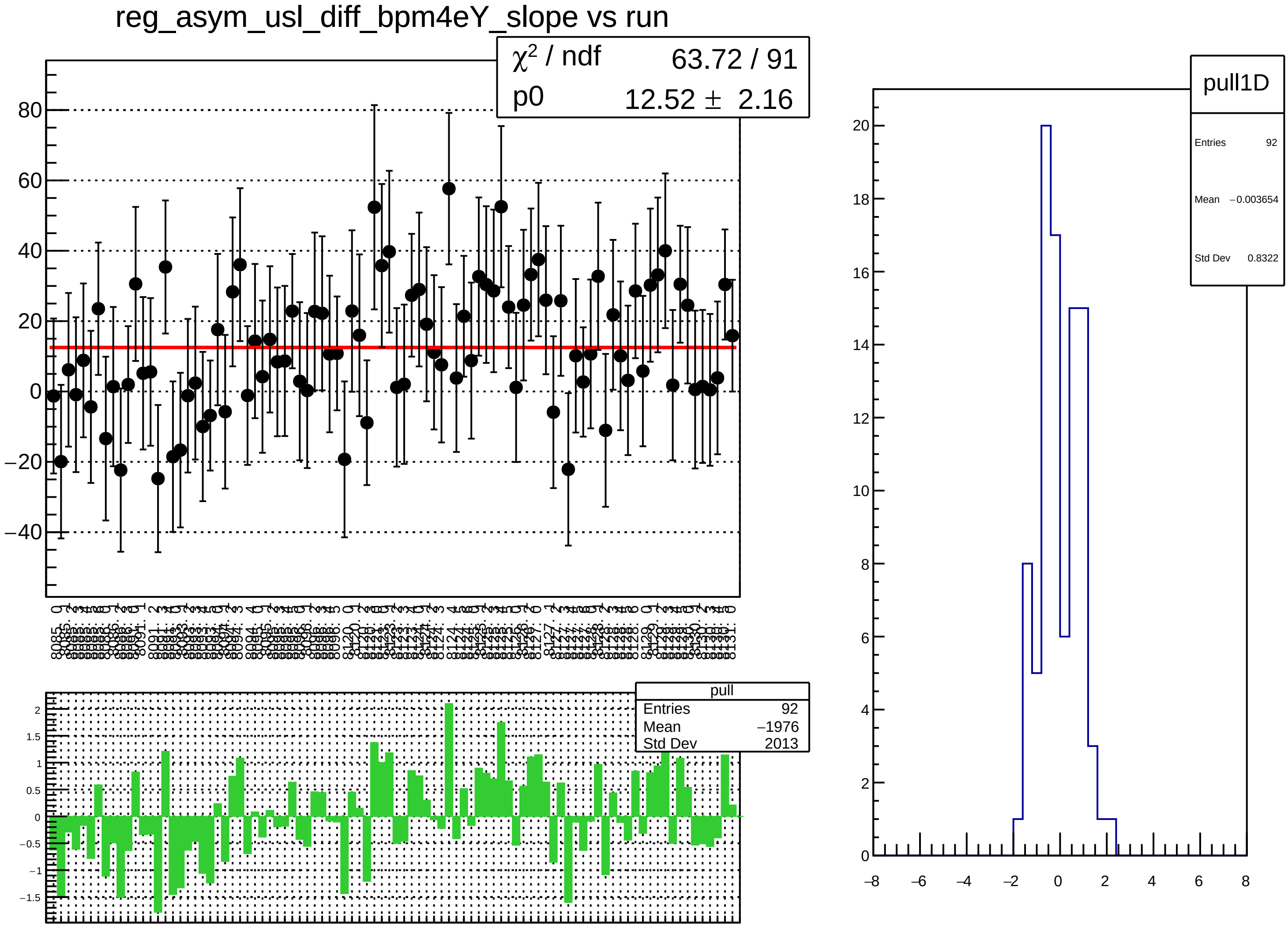

reg_asym_usl_diff_bpm1X_slope vs run
χ^2 / ndf 71.63 / 91
p0 −55.87 ± 1.377
pull
Entries 92
Mean −6.055
Std Dev 37.82
pull1D
Entries 92
Mean −0.009089
Std Dev 0.8824



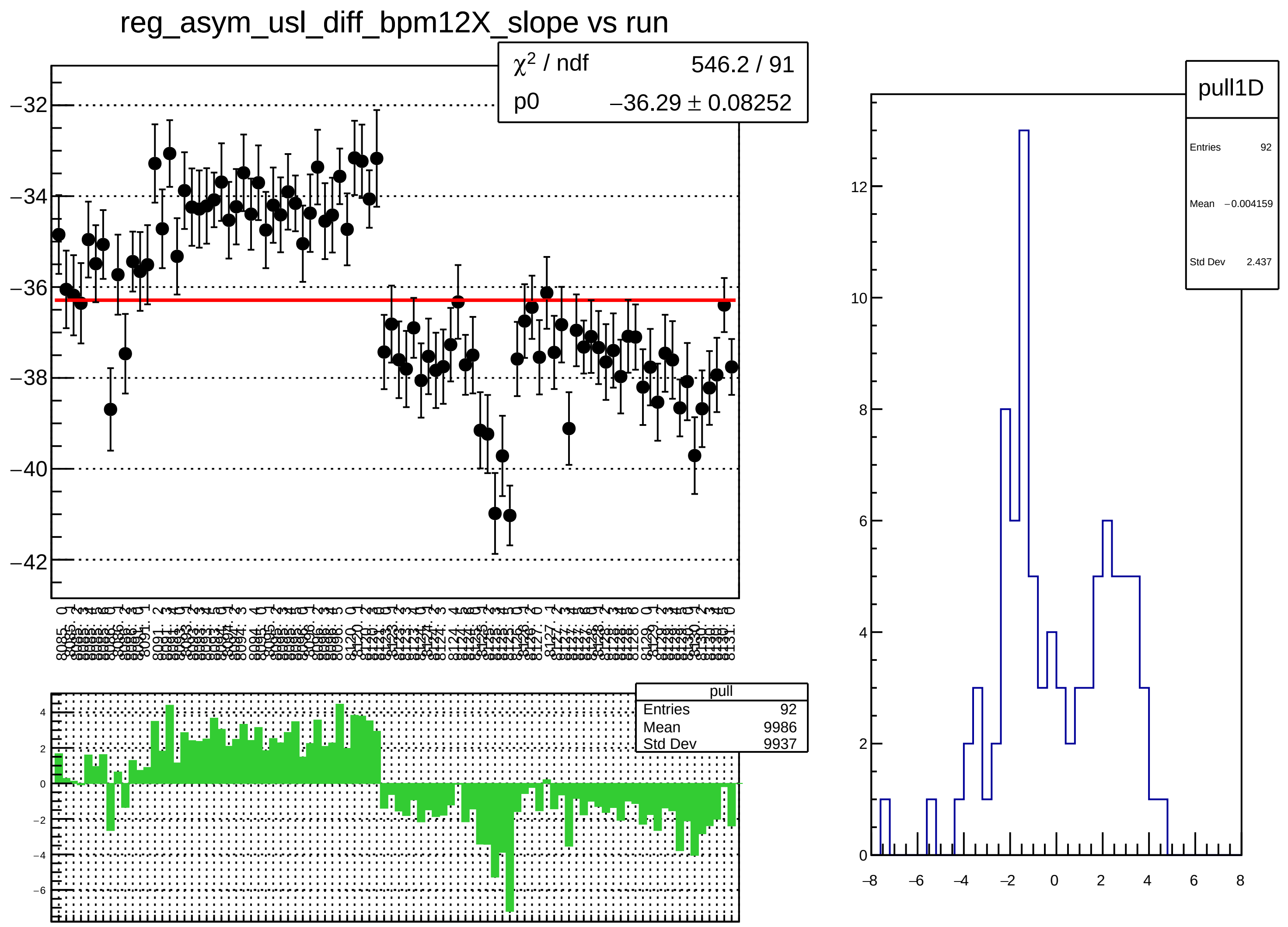
reg_asym_usl_diff_bpm4aY_slope vs run
χ2 / ndf 59.47 / 91
p0 5.946 ± 2.022
pull
Entries 92
Mean −2054
Std Dev 2089
pull1D
Entries 92
Mean 0.002702
Std Dev 0.804



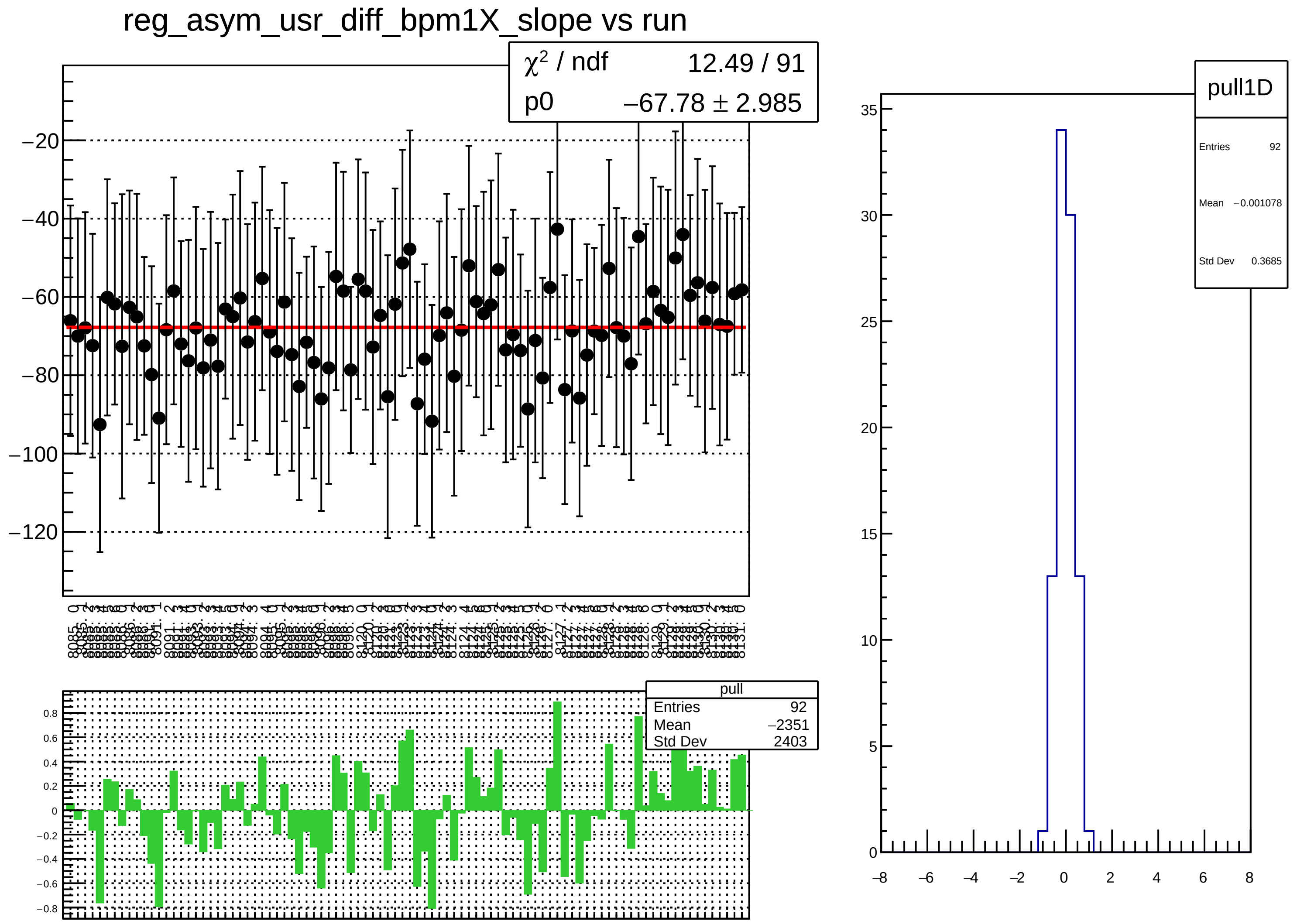
reg_asym_usl_diff_bpm4eX_slope vs run
χ^2 / ndf 69.97 / 91
p0 −9.208 ± 1.308
pull
Entries 92
Mean −136.3
Std Dev 168.4
pull1D
Entries 92
Mean 0.007028
Std Dev 0.8721

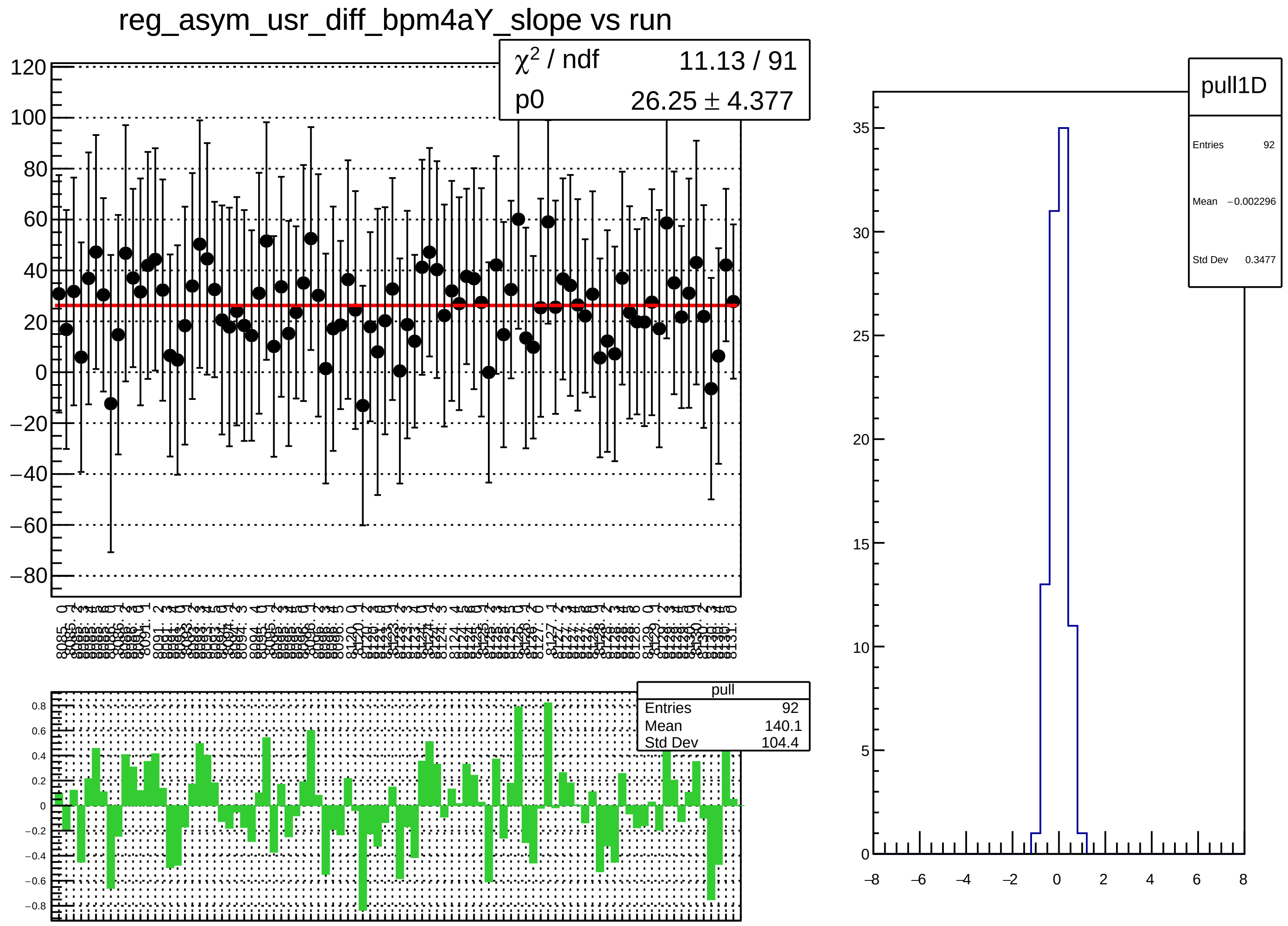


reg_asym_usl_diff_bpm4eY_slope vs run
χ^2 / ndf 63.72 / 91
p0 12.52 ± 2.16
pull
Entries 92
Mean −1976
Std Dev 2013
pull1D
Entries 92
Mean −0.003654
Std Dev 0.8322

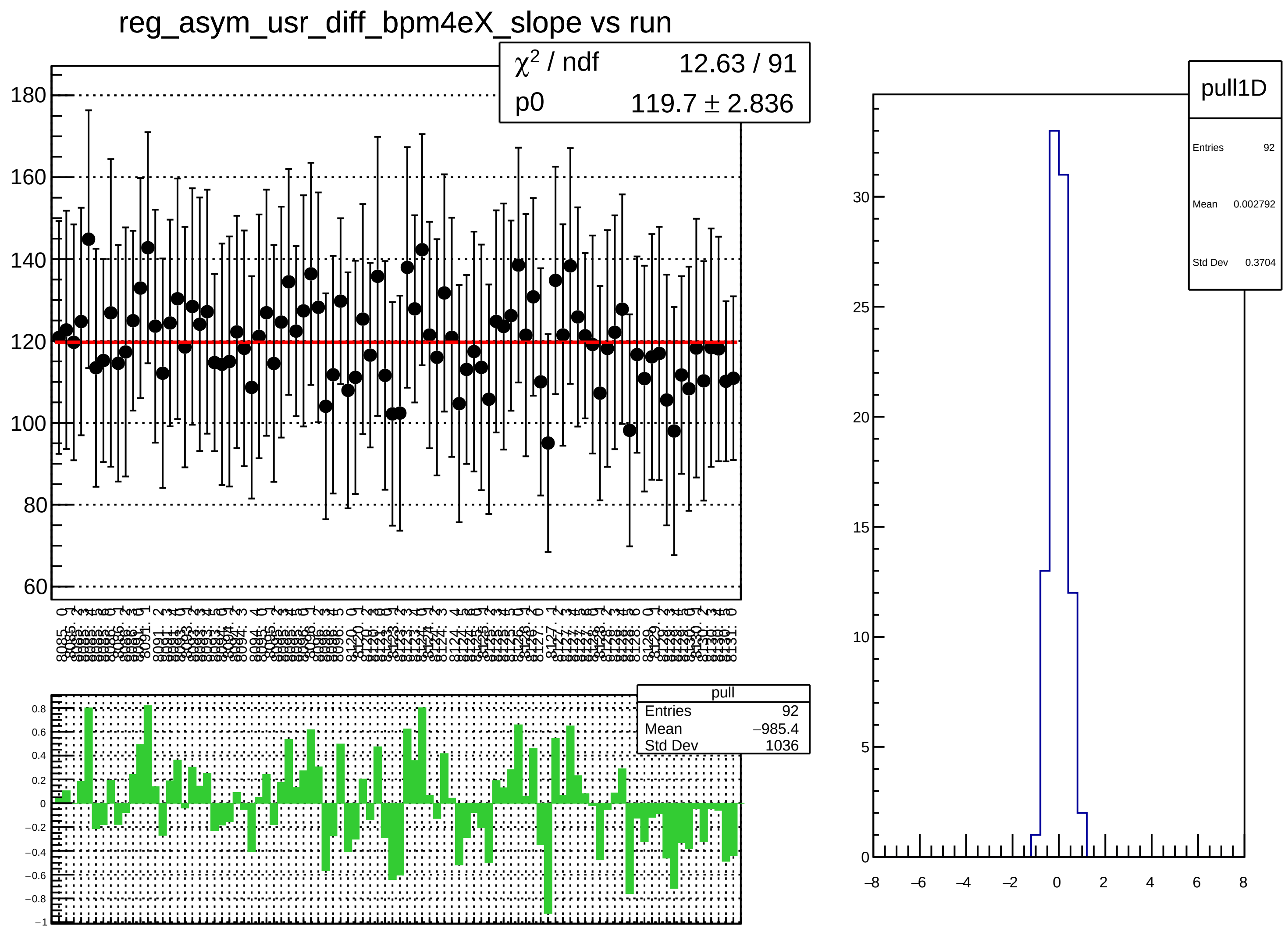


reg_asym_usl_diff_bpm12X_slope vs run
χ^2 / ndf 546.2 / 91
p0 −36.29 ± 0.08252
pull
Entries 92
Mean 9986
Std Dev 9937
pull1D
Entries 92
Mean −0.004159
Std Dev 2.437

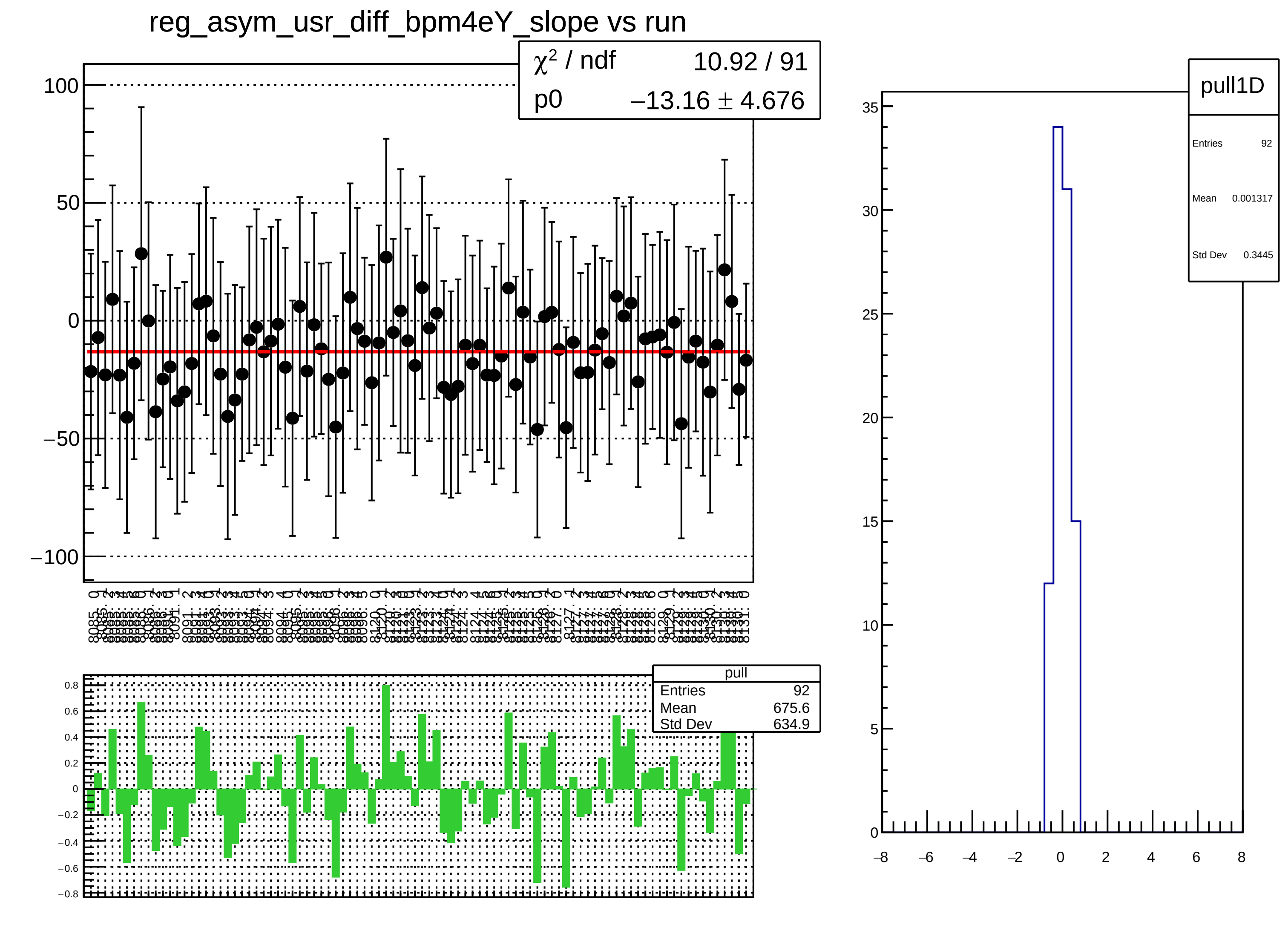

reg_asym_usr_diff_bpm1X_slope vs run
χ^2 / ndf 12.49 / 91
p0 −67.78 ± 2.985
pull
Entries 92
Mean −2351
Std Dev 2403
pull1D
Entries 92
Mean −0.001078
Std Dev 0.3685



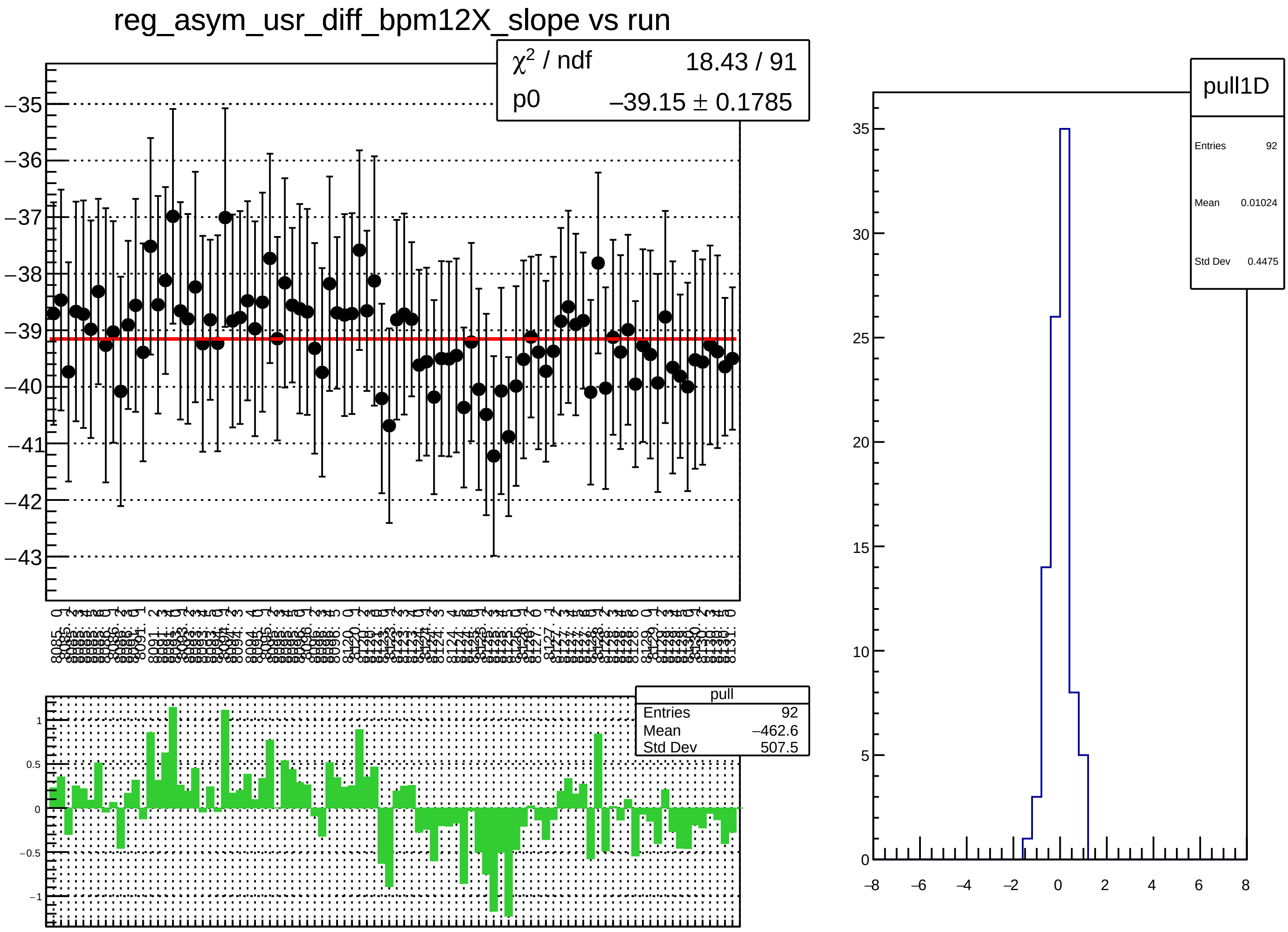
reg_asym_usr_diff_bpm4aY_slope vs run
χ^2 / ndf 11.13 / 91
p0 26.25 ± 4.377
pull
Entries 92
Mean 140.1
Std Dev 104.4
pull1D
Entries 92
Mean −0.002296
Std Dev 0.3477



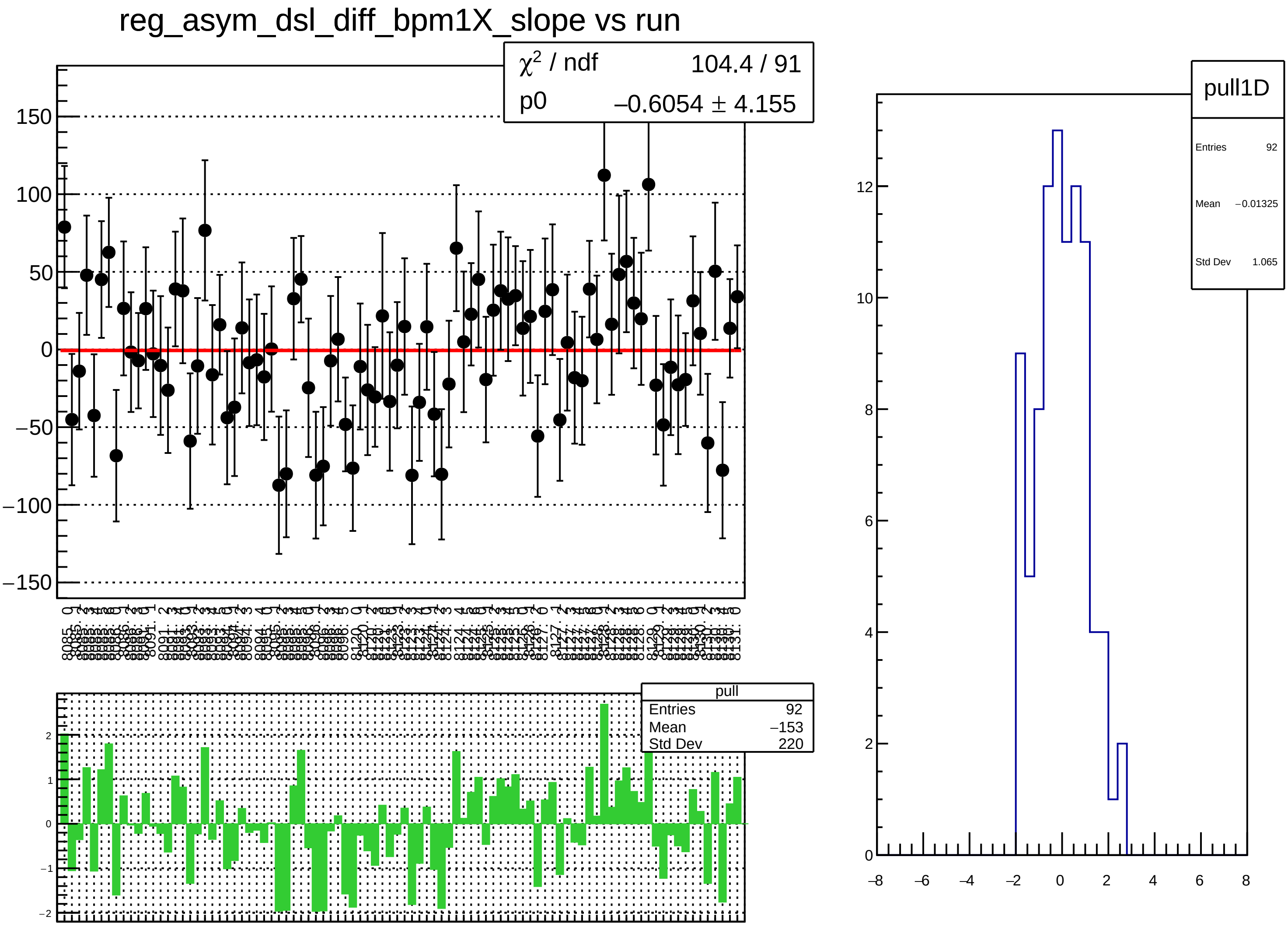
reg_asym_usr_diff_bpm4eX_slope vs run
χ^2 / ndf 12.63 / 91
p0 119.7 ± 2.836
pull
Entries 92
Mean −985.4
Std Dev 1036
pull1D
Entries 92
Mean 0.002792
Std Dev 0.3704

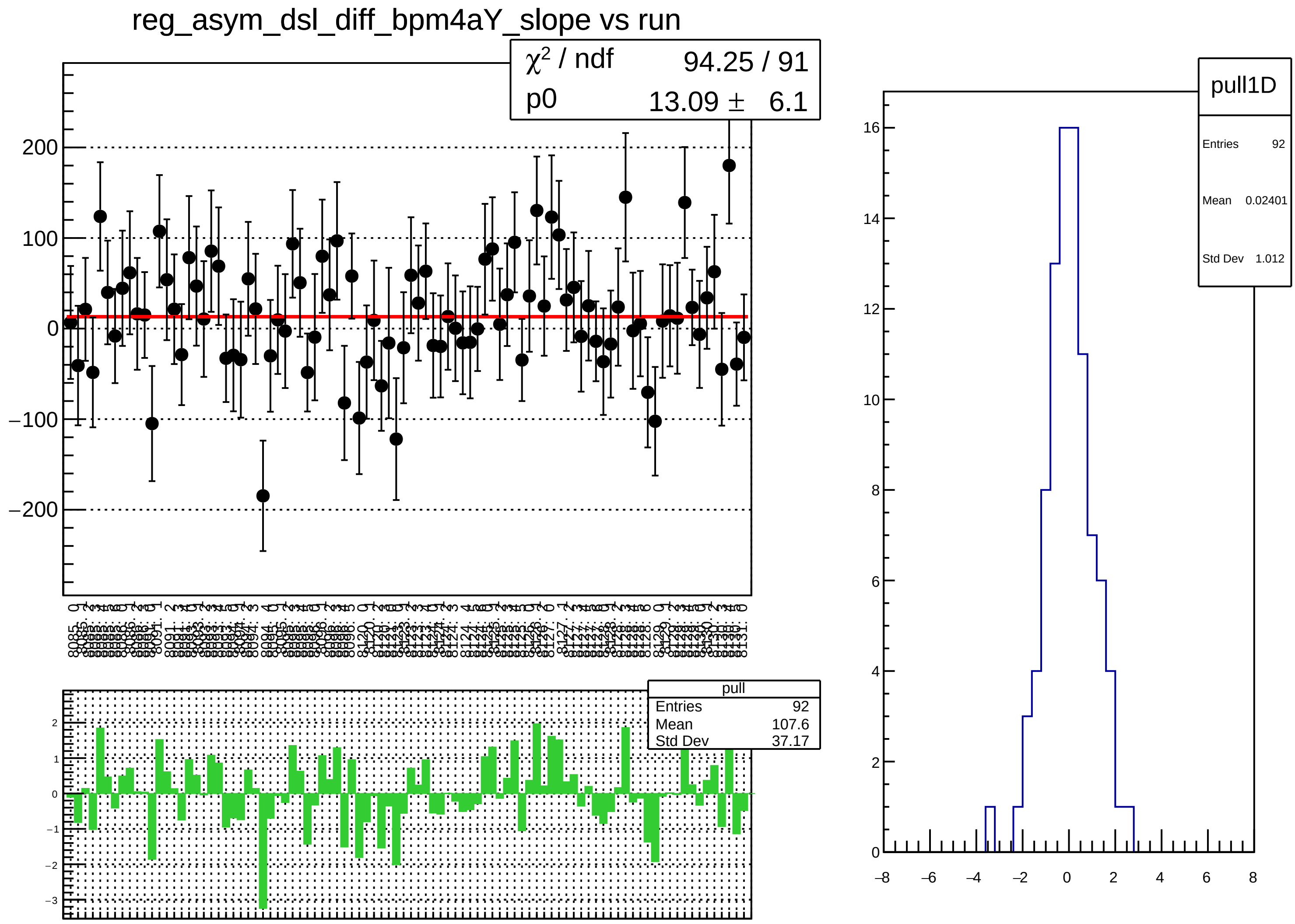


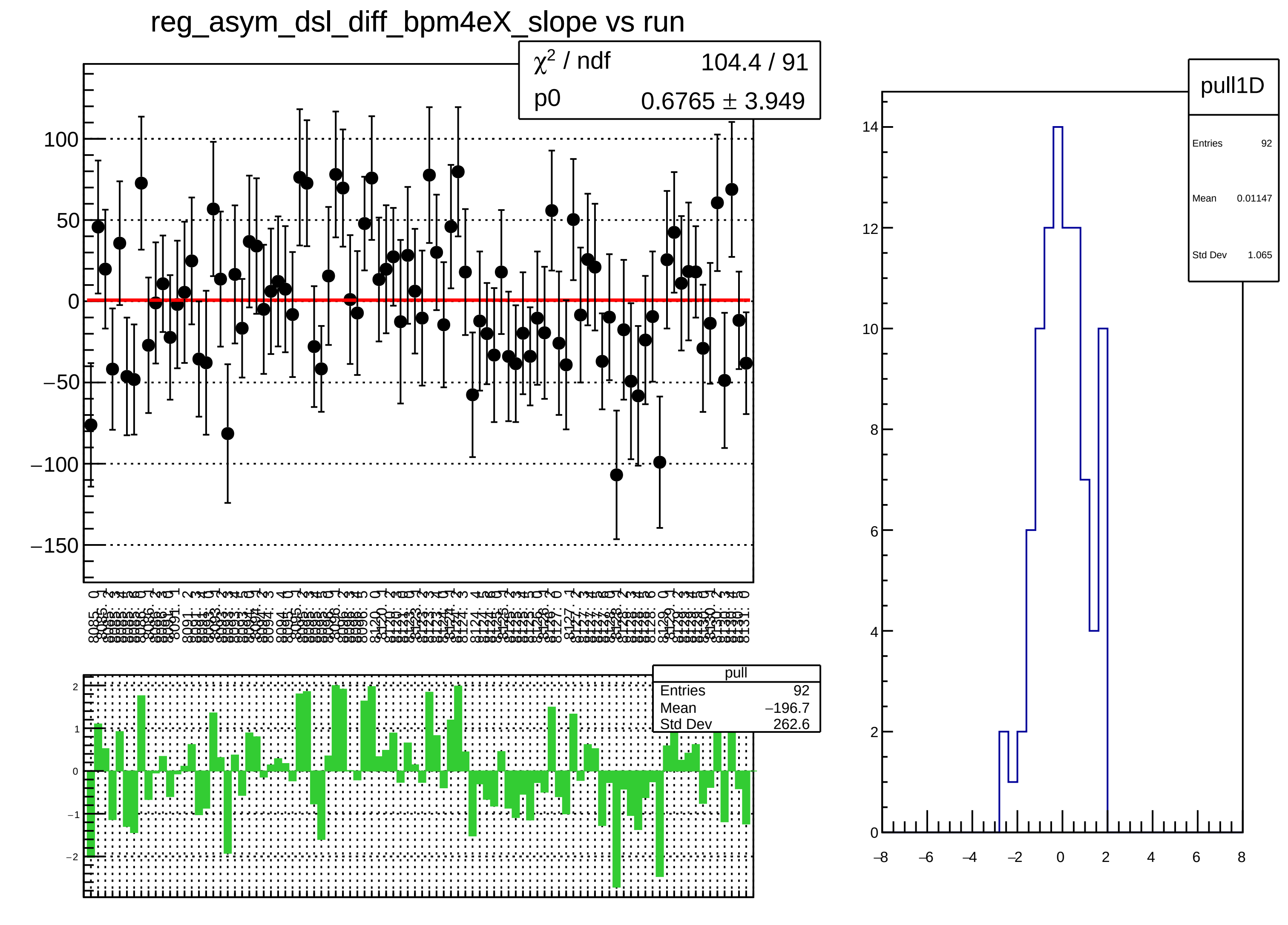
reg_asym_usr_diff_bpm4eY_slope vs run
χ^2 / ndf 10.92 / 91
p0 −13.16 ± 4.676
100
50
0
−50
−100
pull
Entries 92
Mean 675.6
Std Dev 634.9
pull1D
Entries 92
Mean 0.001317
Std Dev 0.3445



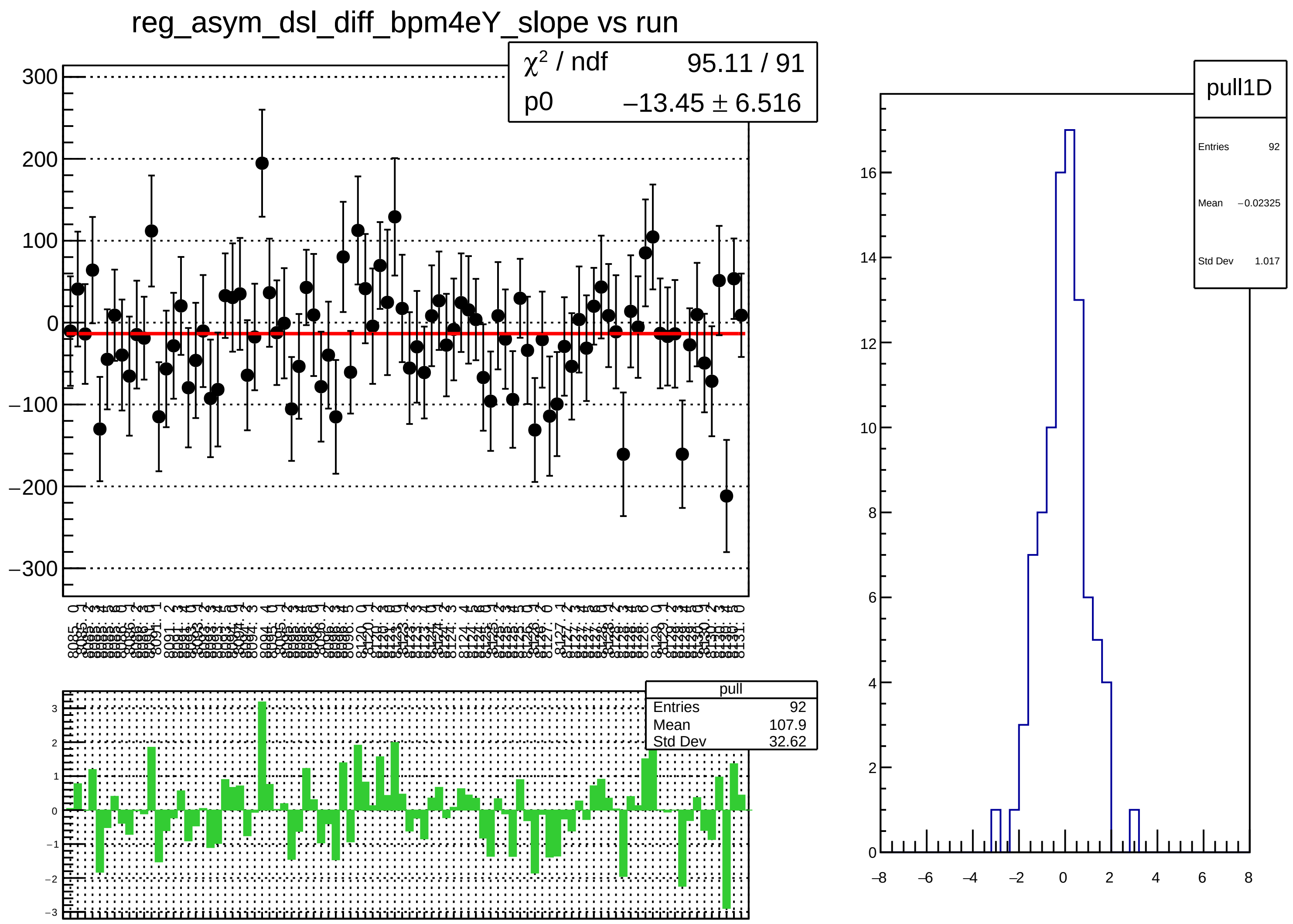
reg_asym_usr_diff_bpm12X_slope vs run
χ^2 / ndf 18.43 / 91
p0 −39.15 ± 0.1785
pull
Entries 92
Mean −462.6
Std Dev 507.5
pull1D
Entries 92
Mean 0.01024
Std Dev 0.4475

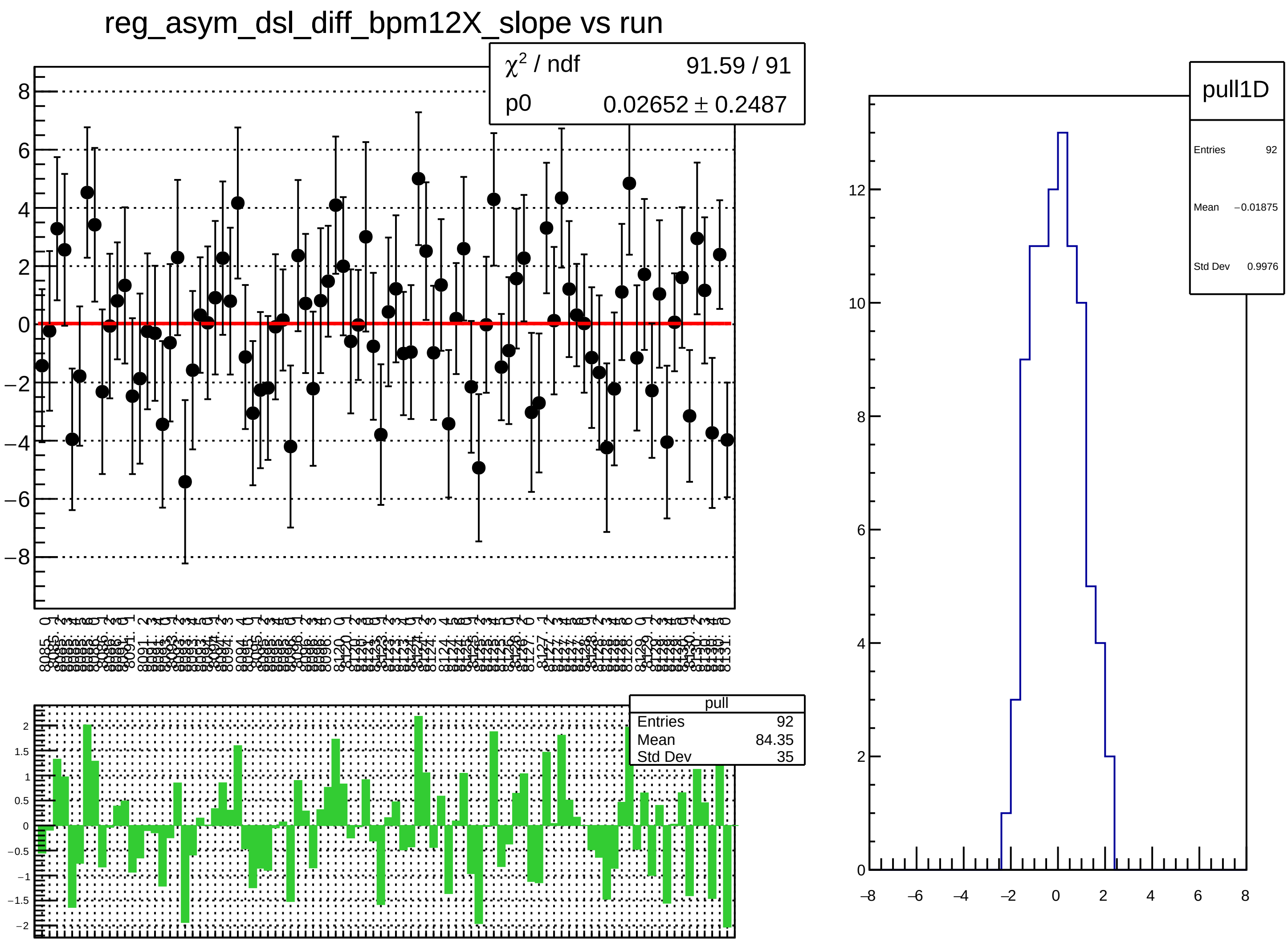

reg_asym_dsl_diff_bpm1X_slope vs run
χ2 / ndf 104.4 / 91
p0 −0.6054 ± 4.155
pull
Entries 92
Mean −153
Std Dev 220
pull1D
Entries 92
Mean −0.01325
Std Dev 1.065


reg_asym_dsl_diff_bpm4aY_slope vs run
χ^2 / ndf 94.25 / 91
p0 13.09 ± 6.1
200
100
0
−100
−200
pull
Entries 92
Mean 107.6
Std Dev 37.17
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.02401
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

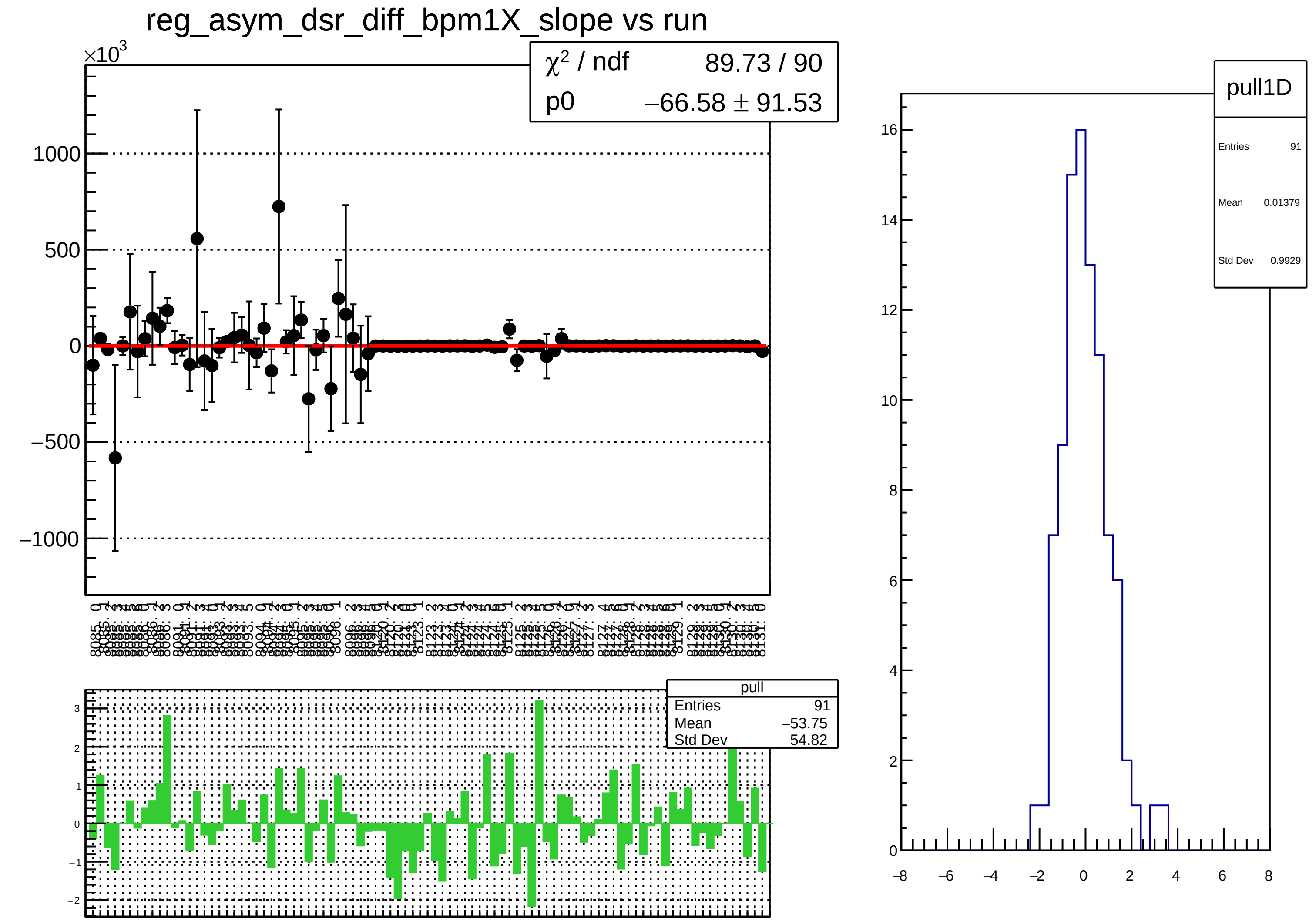


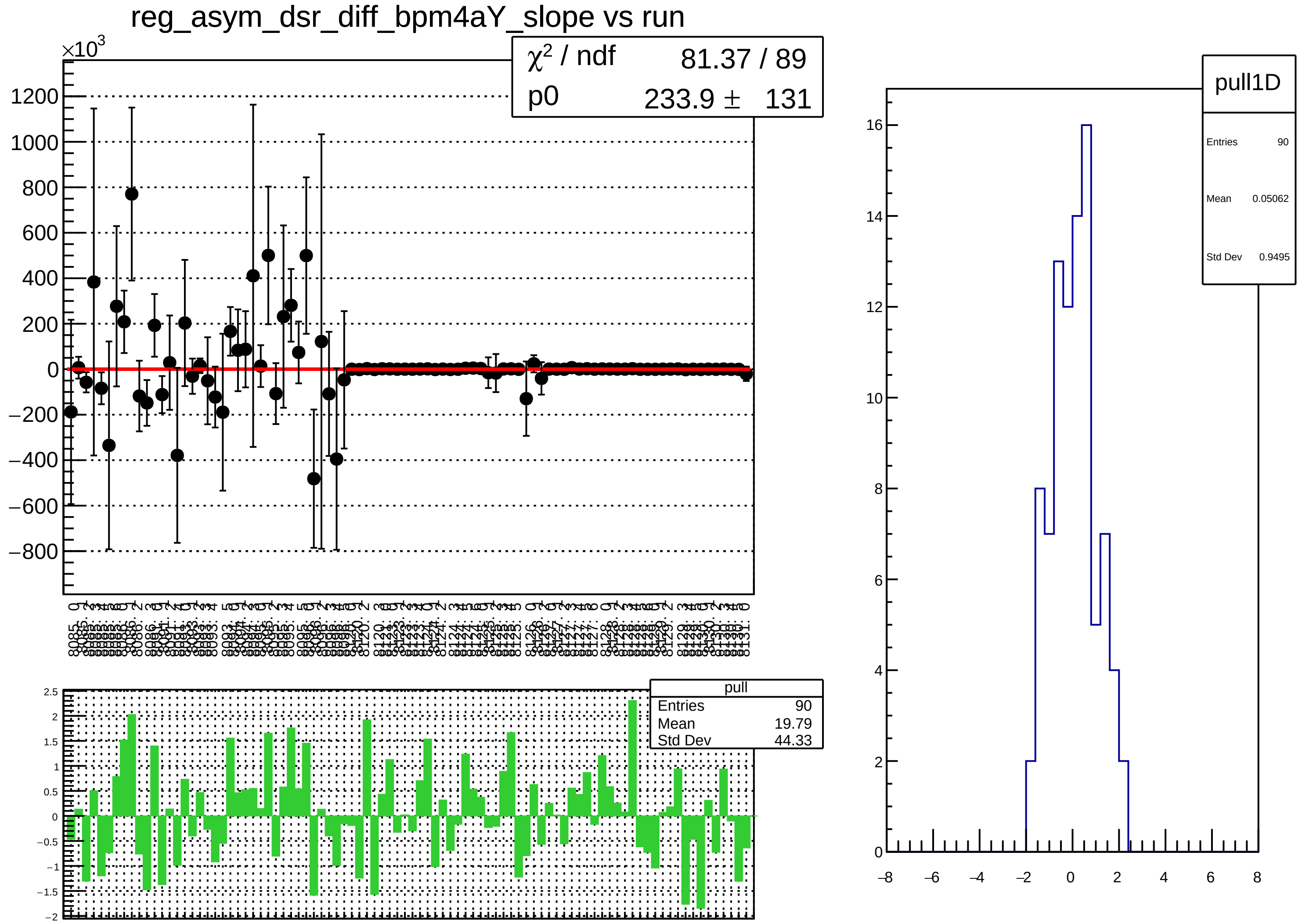
reg_asym_dsl_diff_bpm4eX_slope vs run
χ2 / ndf 104.4 / 91
p0 0.6765 ± 3.949
pull
Entries 92
Mean −196.7
Std Dev 262.6
pull1D
Entries 92
Mean 0.01147
Std Dev 1.065


reg_asym_dsl_diff_bpm4eY_slope vs run
χ^2 / ndf 95.11 / 91
p0 −13.45 ± 6.516
pull
Entries 92
Mean 107.9
Std Dev 32.62
pull1D
Entries 92
Mean −0.02325
Std Dev 1.017

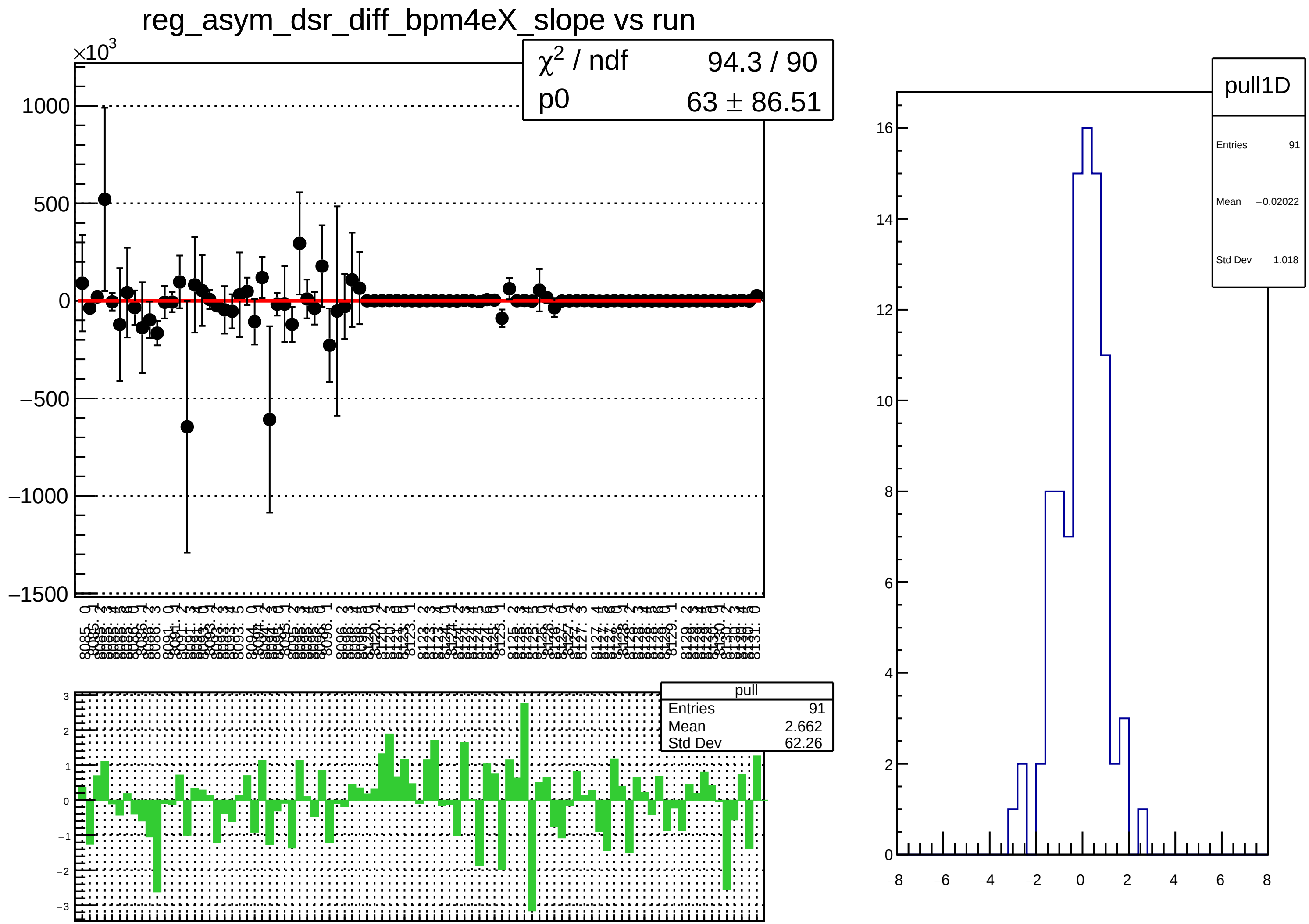


reg_asym_dsl_diff_bpm12X_slope vs run
χ^2 / ndf 91.59 / 91
p0 0.02652 ± 0.2487
pull
Entries 92
Mean 84.35
Std Dev 35
pull1D
Entries 92
Mean −0.01875
Std Dev 0.9976

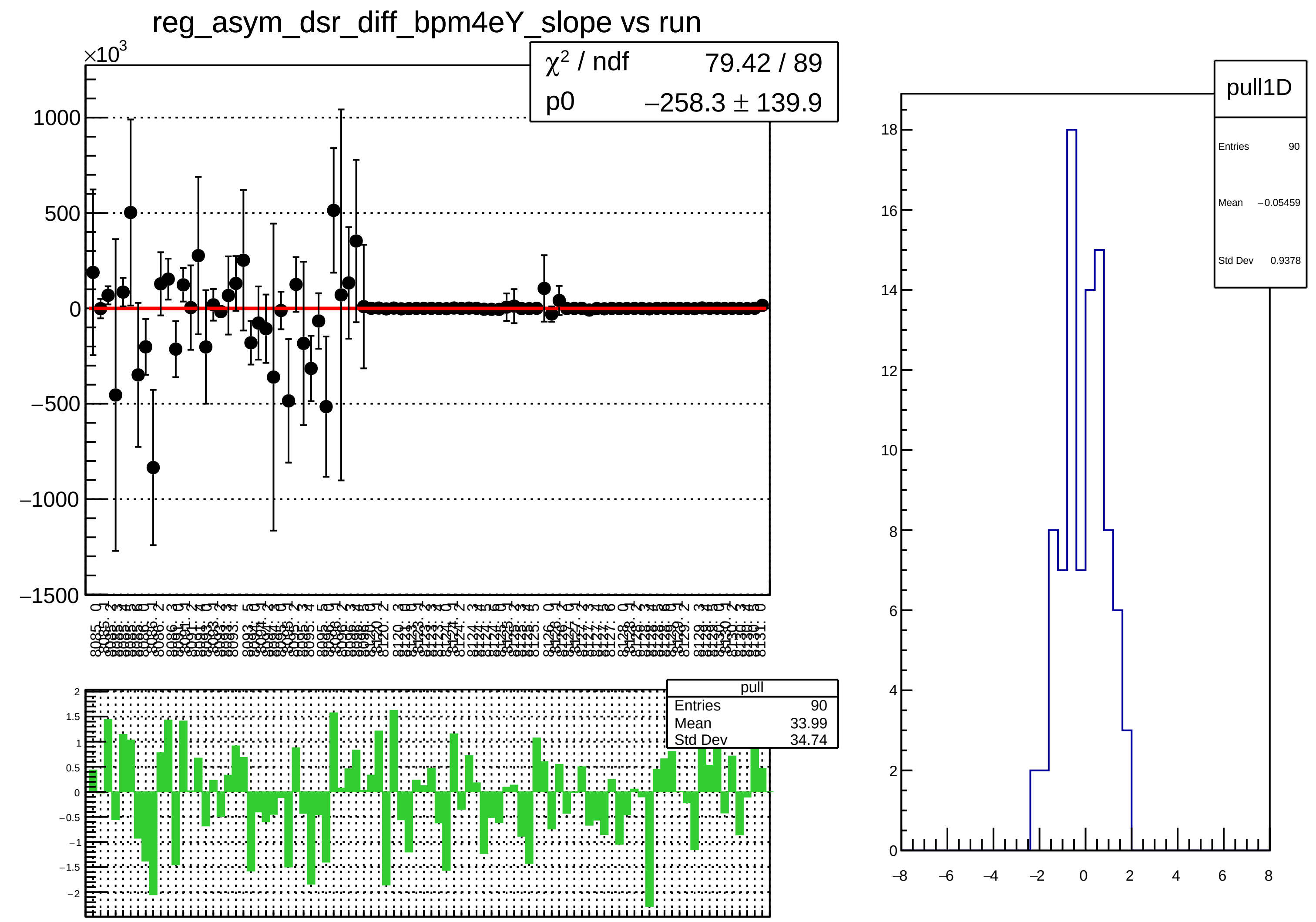

reg_asym_dsr_diff_bpm1X_slope vs run
$\times10^{3}$
χ^2 / ndf 89.73 / 90
p0 −66.58 ± 91.53
1000
500
0
−500
−1000
pull
Entries 91
Mean −53.75
Std Dev 54.82
3
2
1
0
−1
−2
pull1D
Entries 91
Mean 0.01379
Std Dev 0.9929
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



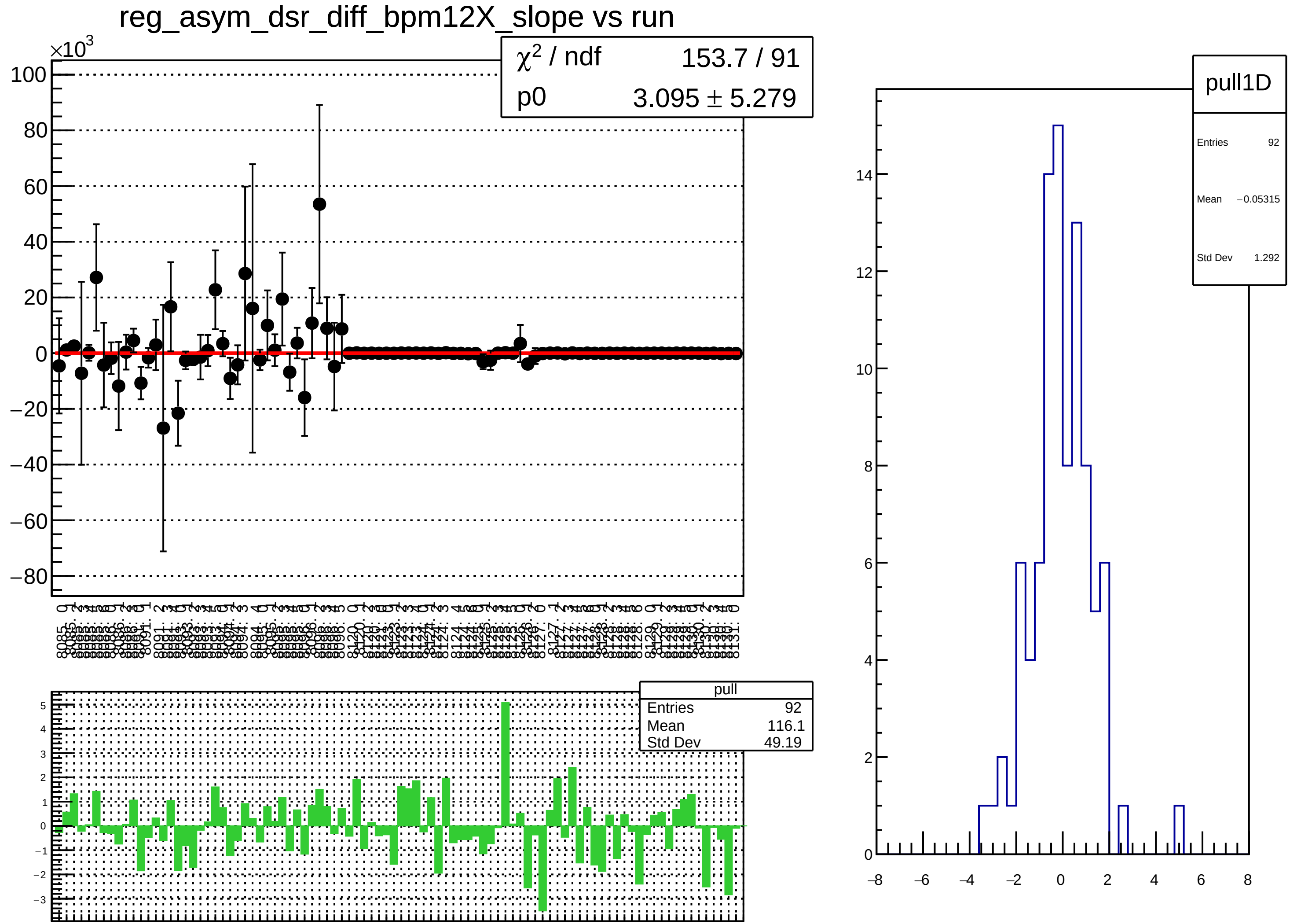
reg_asym_dsr_diff_bpm4aY_slope vs run
×10^3
χ2 / ndf 81.37 / 89
p0 233.9 ± 131
pull
Entries 90
Mean 19.79
Std Dev 44.33
pull1D
Entries 90
Mean 0.05062
Std Dev 0.9495

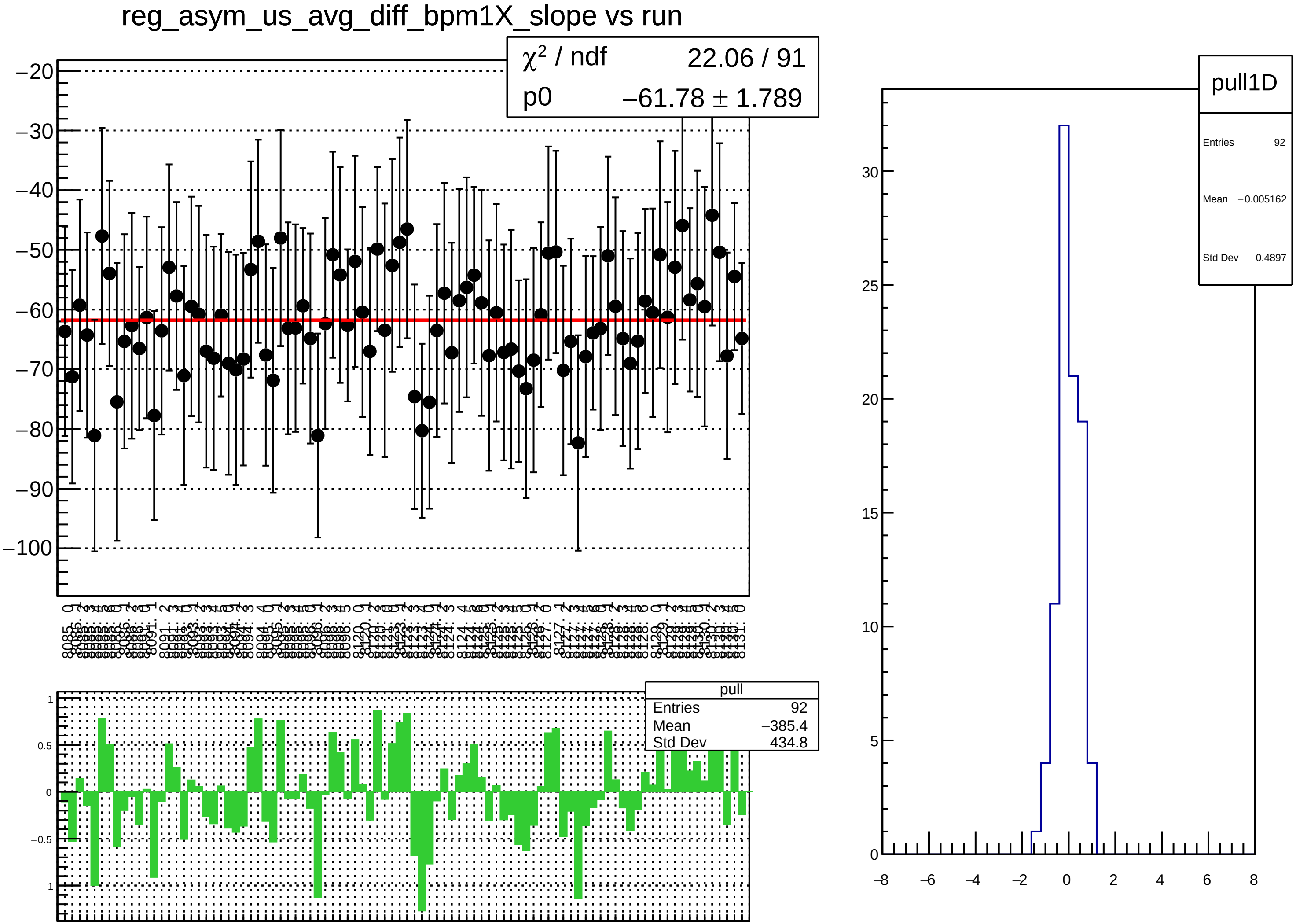


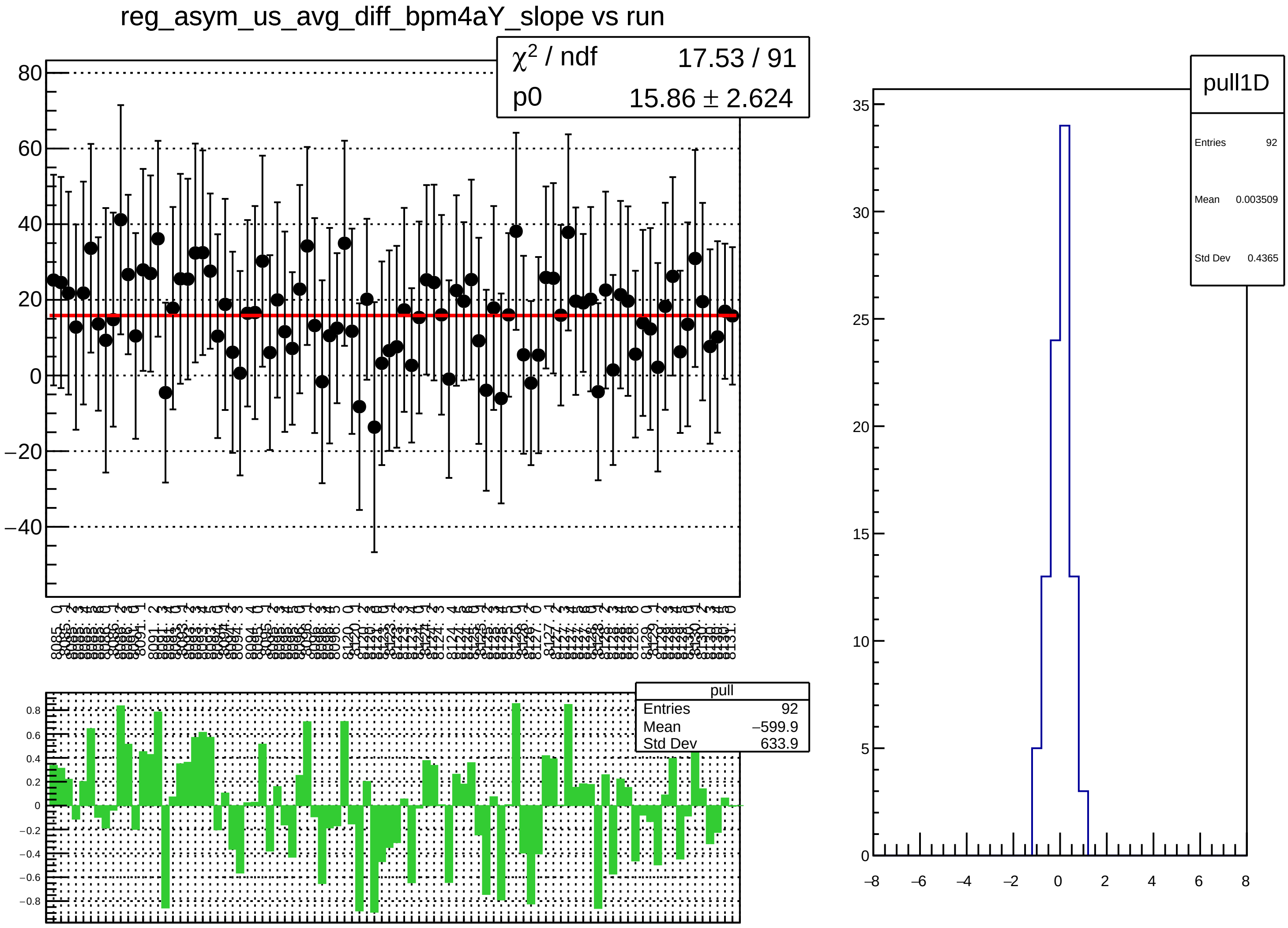
reg_asym_dsr_diff_bpm4eX_slope vs run
×10^3
χ^2 / ndf 94.3 / 90
p0 63 ± 86.51
1000
500
0
−500
−1000
−1500
pull
Entries 91
Mean 2.662
Std Dev 62.26
3
2
1
0
−1
−2
−3
pull1D
Entries 91
Mean −0.02022
Std Dev 1.018
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



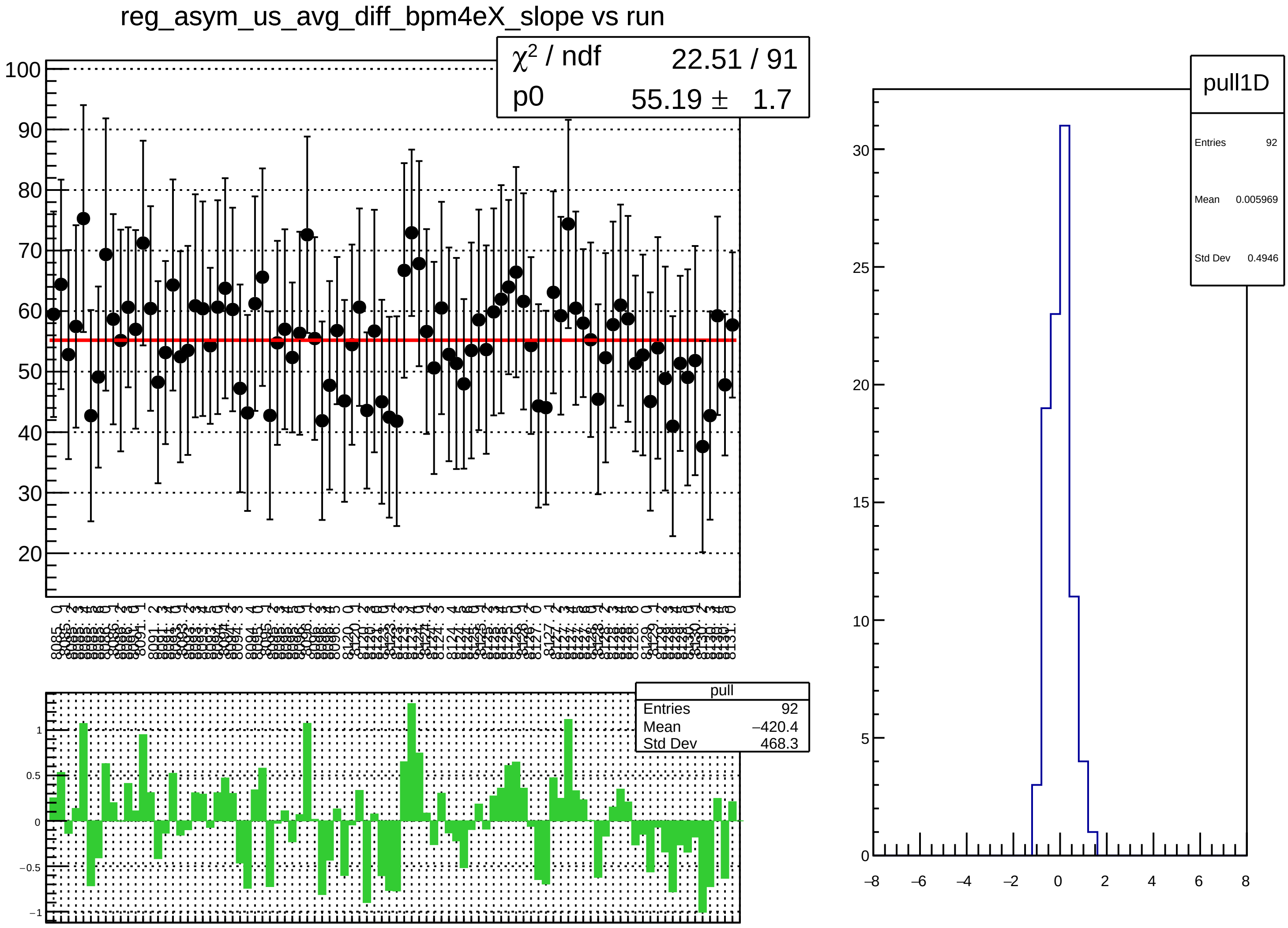
reg_asym_dsr_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 79.42 / 89
p0 −258.3 ± 139.9
pull
Entries 90
Mean 33.99
Std Dev 34.74
pull1D
Entries 90
Mean −0.05459
Std Dev 0.9378

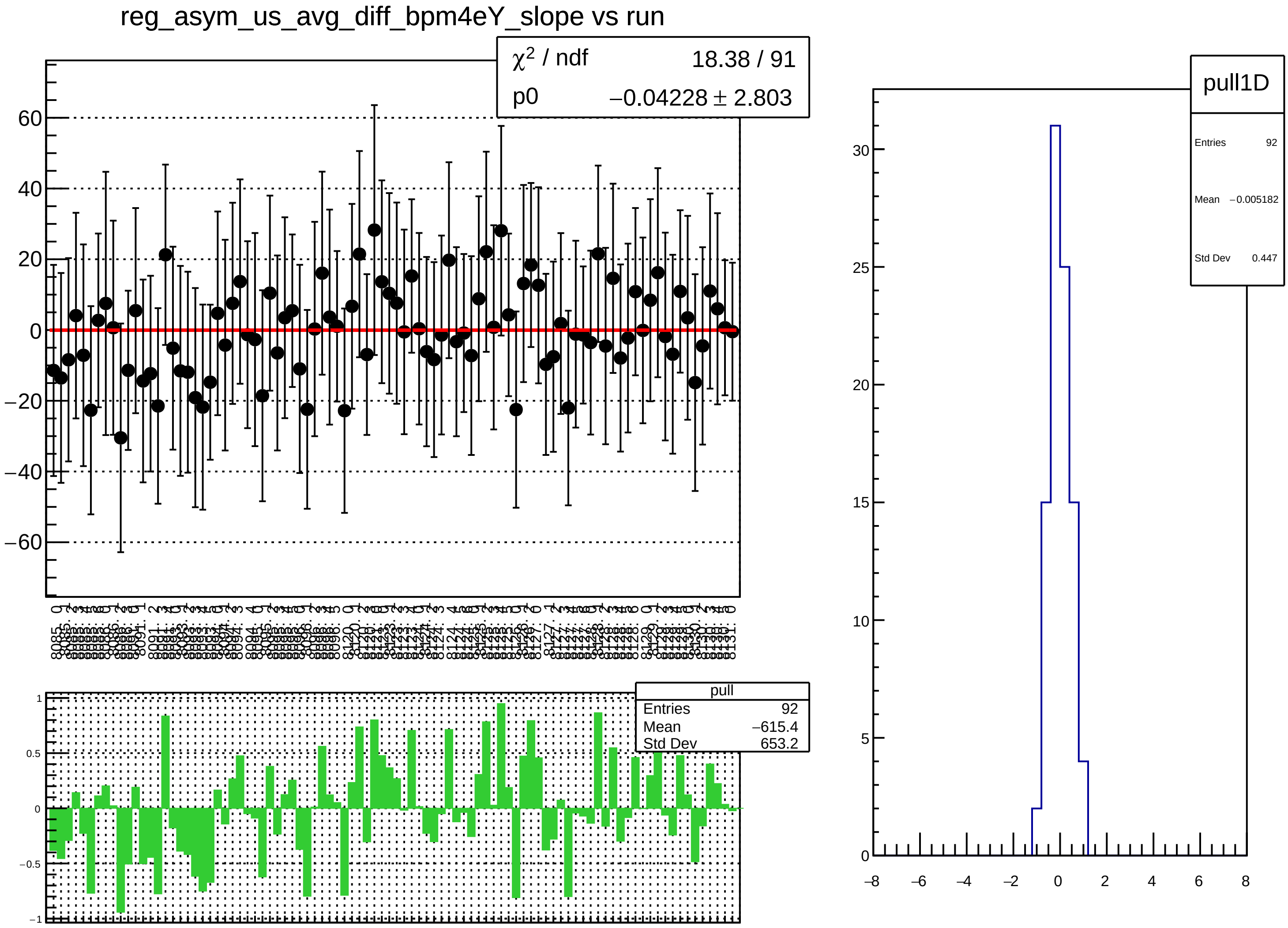

reg_asym_dsr_diff_bpm12X_slope vs run
×10^3
χ2 / ndf 153.7 / 91
p0 3.095 ± 5.279
pull
Entries 92
Mean 116.1
Std Dev 49.19
pull1D
Entries 92
Mean −0.05315
Std Dev 1.292


reg_asym_us_avg_diff_bpm1X_slope vs run
χ2 / ndf 22.06 / 91
p0 −61.78 ± 1.789
pull
Entries 92
Mean −385.4
Std Dev 434.8
pull1D
Entries 92
Mean −0.005162
Std Dev 0.4897

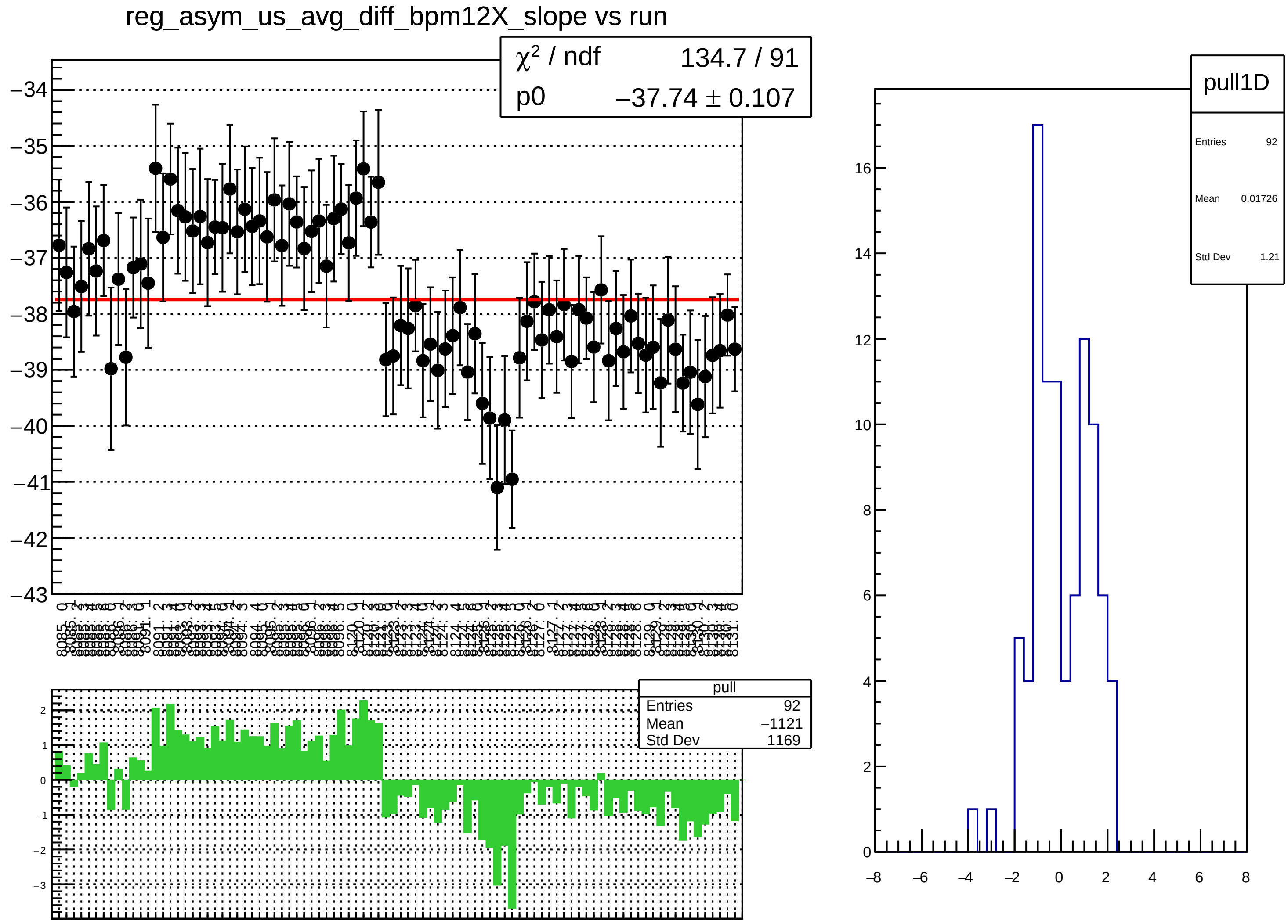


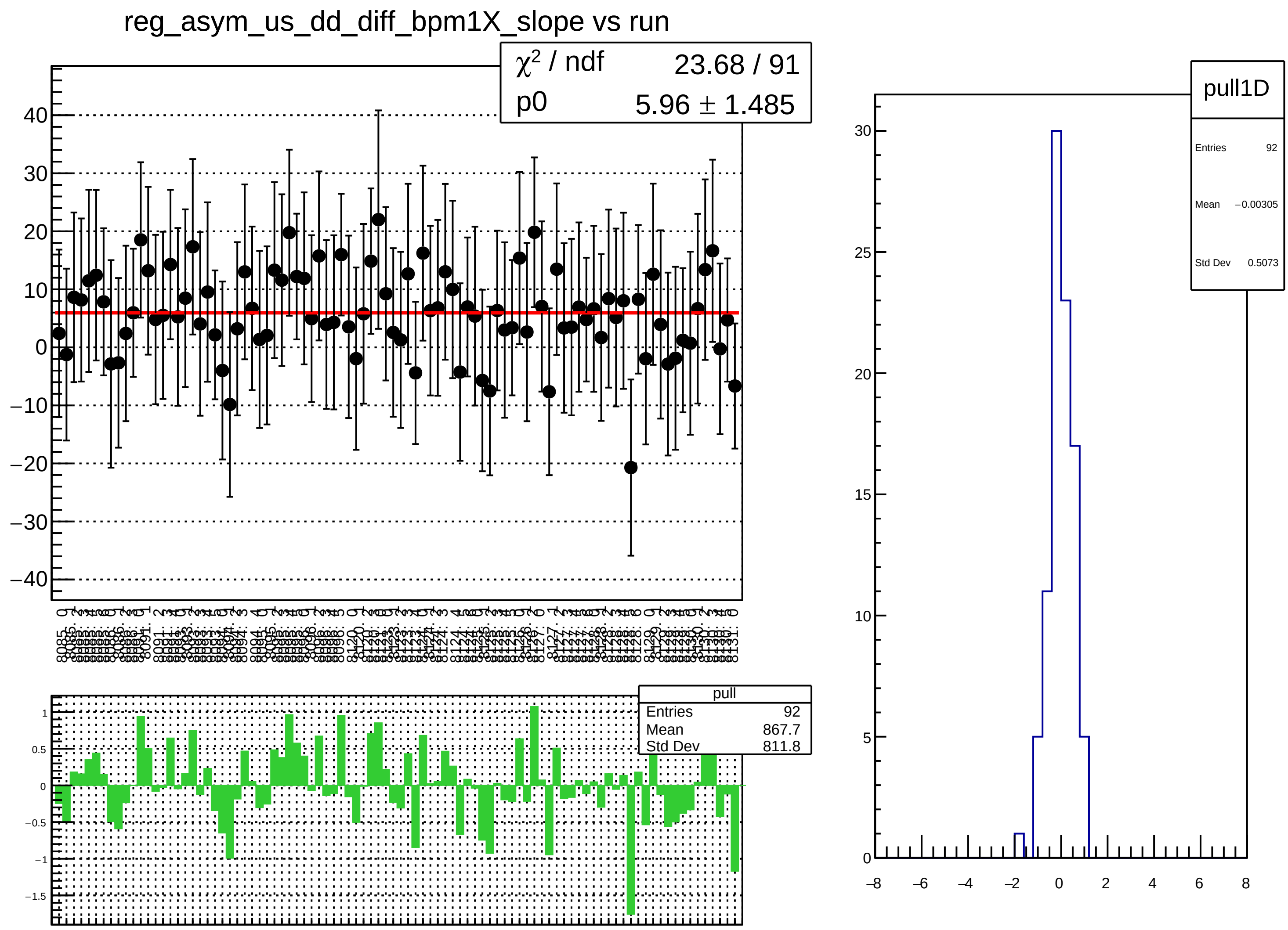
reg_asym_us_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 17.53 / 91
p0 15.86 ± 2.624
pull
Entries 92
Mean −599.9
Std Dev 633.9
pull1D
Entries 92
Mean 0.003509
Std Dev 0.4365


reg_asym_us_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 22.51 / 91
p0 55.19 ± 1.7
pull
Entries 92
Mean −420.4
Std Dev 468.3
pull1D
Entries 92
Mean 0.005969
Std Dev 0.4946

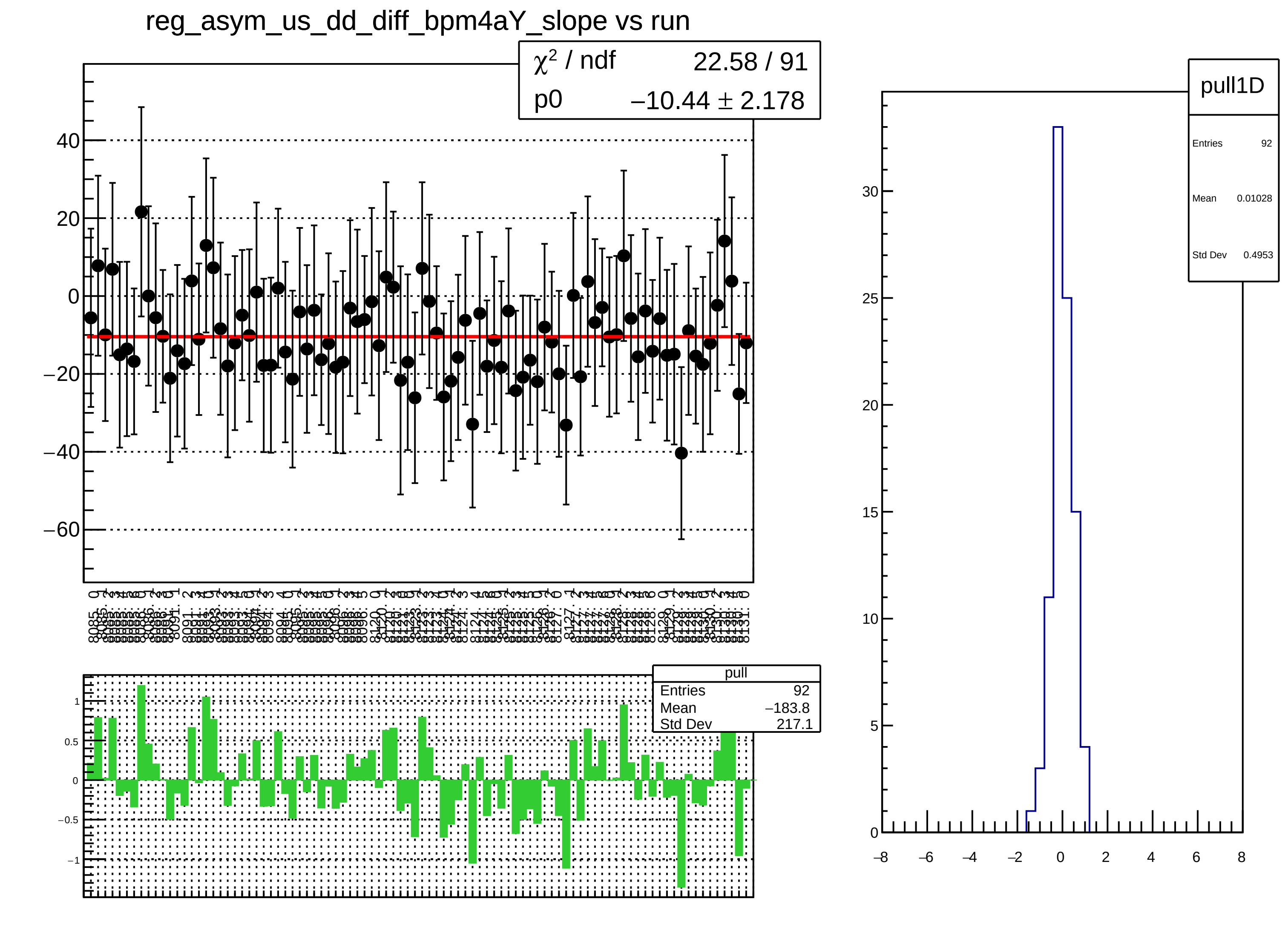


reg_asym_us_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 18.38 / 91
p0 −0.04228 ± 2.803
pull
Entries 92
Mean −615.4
Std Dev 653.2
pull1D
Entries 92
Mean −0.005182
Std Dev 0.447

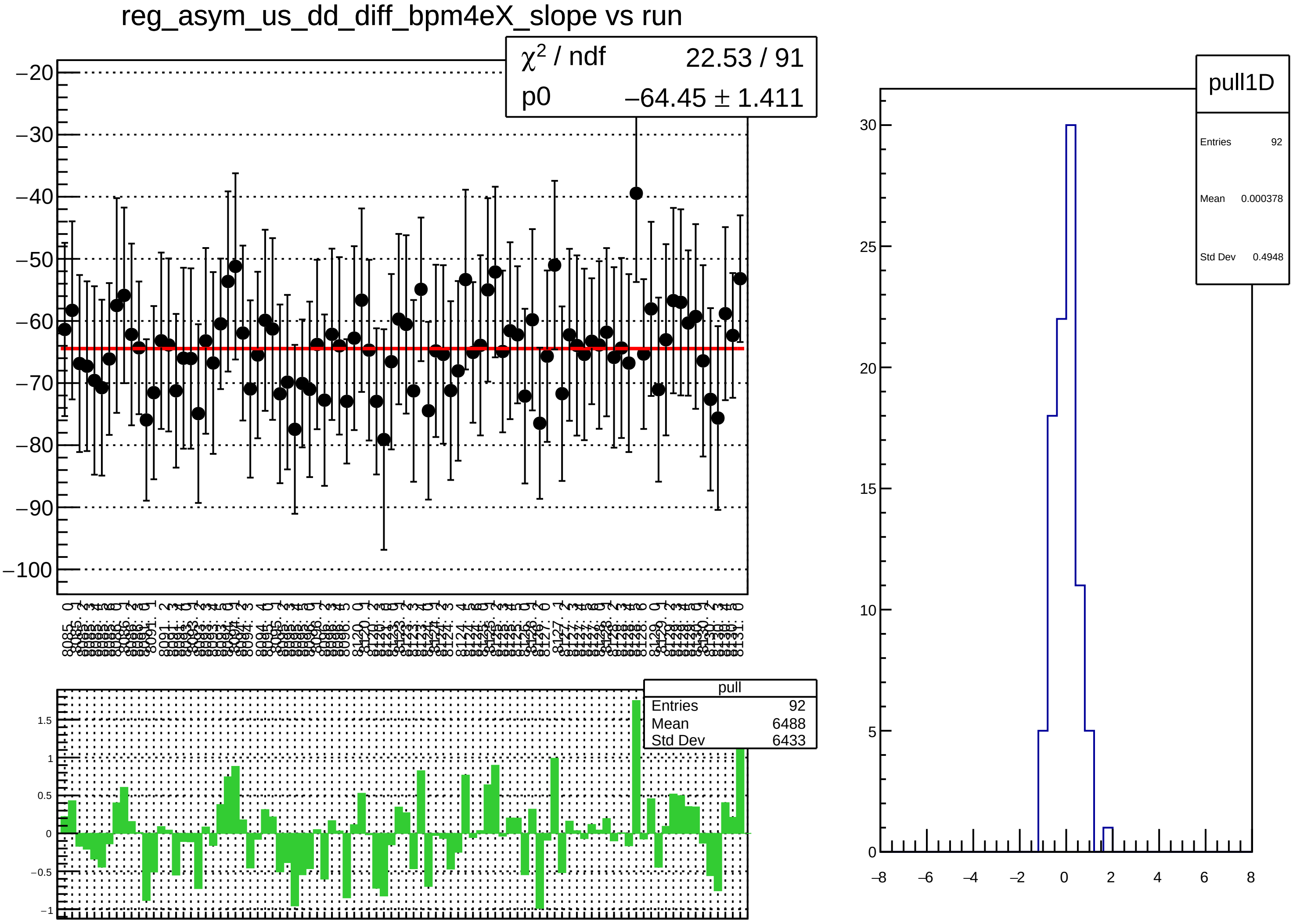

reg_asym_us_avg_diff_bpm12X_slope vs run
χ^2 / ndf 134.7 / 91
p0 −37.74 ± 0.107
−34
−35
−36
−37
−38
−39
−40
−41
−42
−43
pull
Entries 92
Mean −1121
Std Dev 1169
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.01726
Std Dev 1.21
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

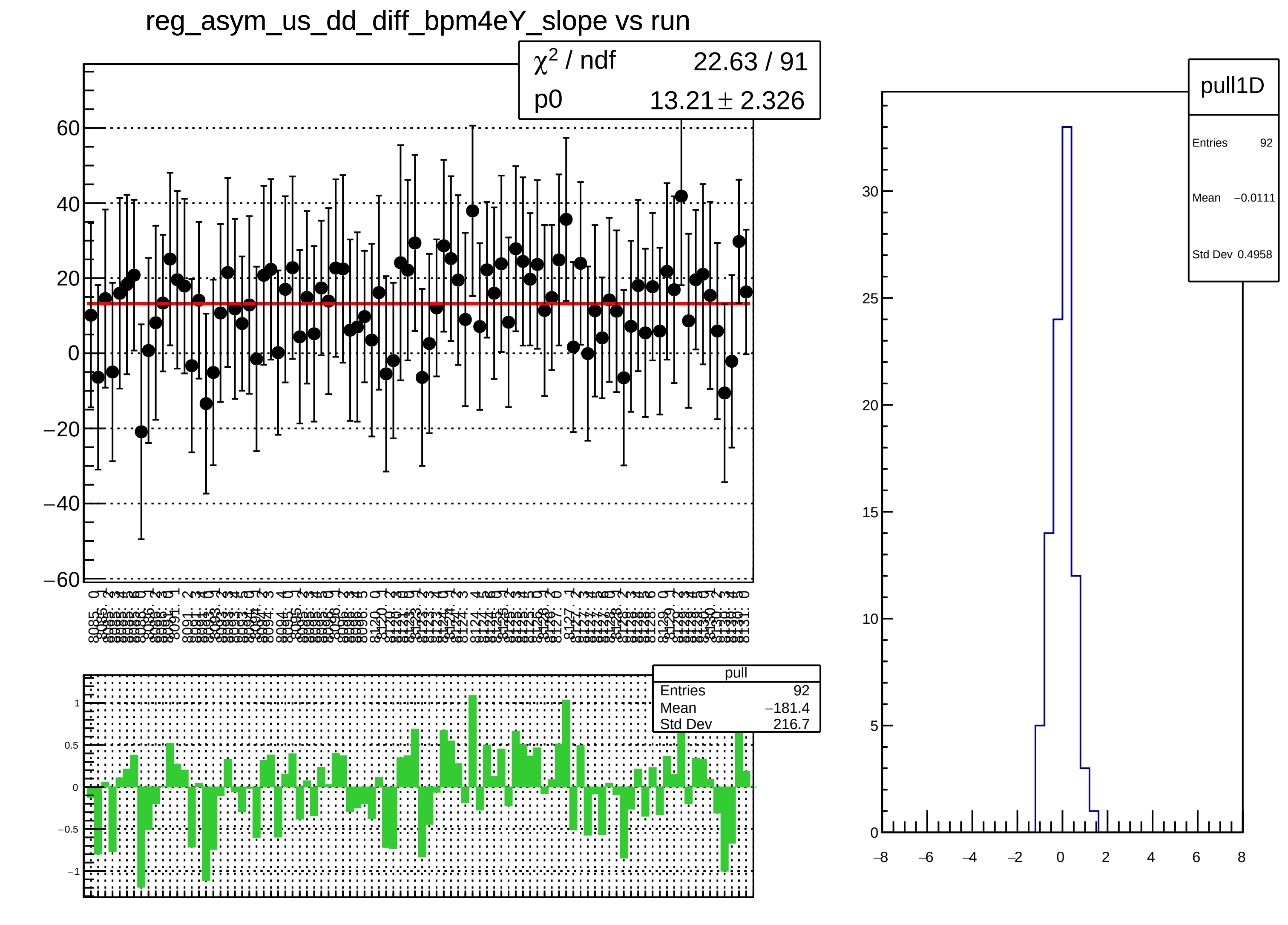


reg_asym_us_dd_diff_bpm1X_slope vs run
χ^2 / ndf 23.68 / 91
p0 5.96 ± 1.485
pull
Entries 92
Mean 867.7
Std Dev 811.8
pull1D
Entries 92
Mean −0.00305
Std Dev 0.5073

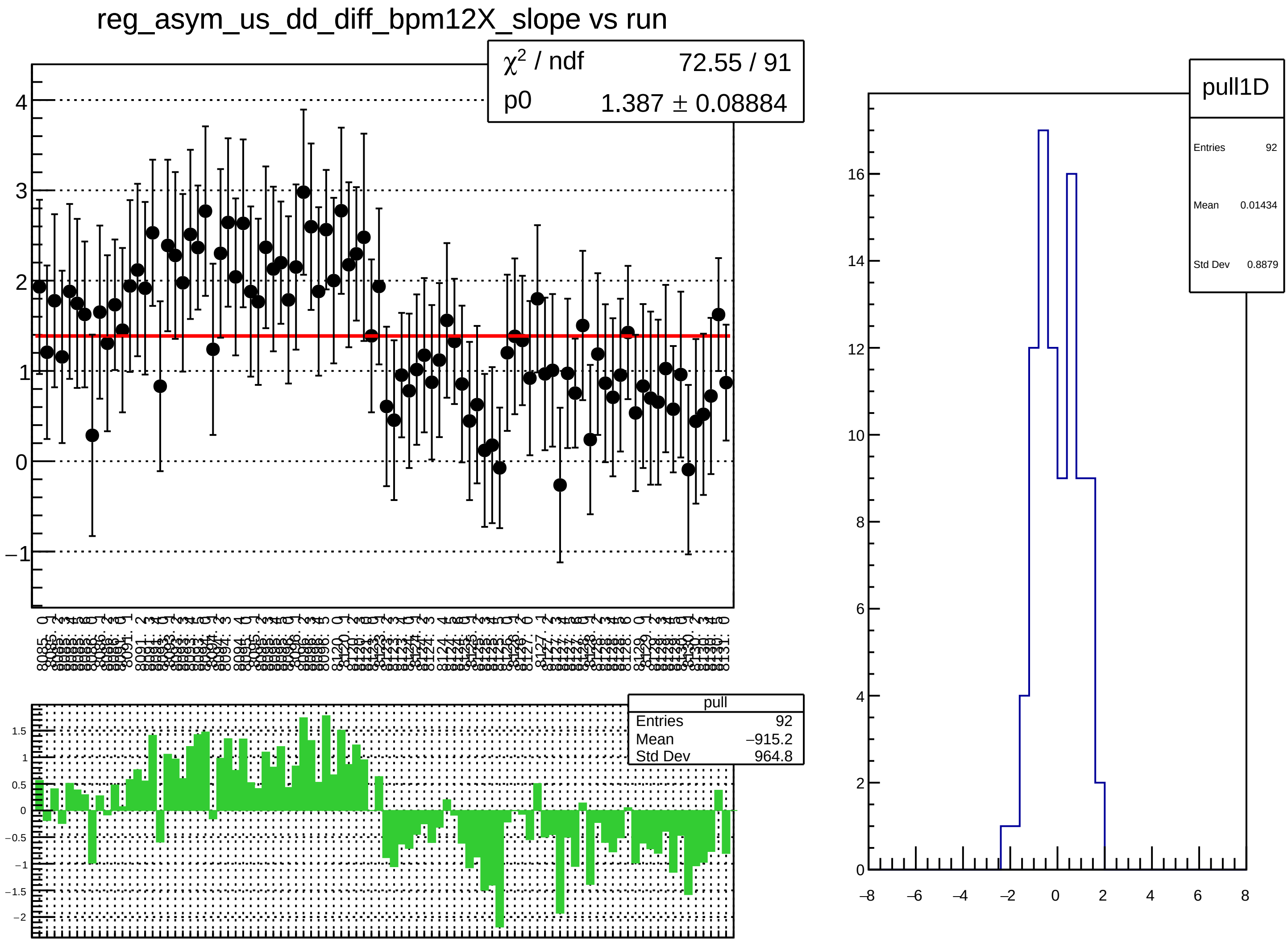


reg_asym_us_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 22.58 / 91
p0 −10.44 ± 2.178
pull
Entries 92
Mean −183.8
Std Dev 217.1
pull1D
Entries 92
Mean 0.01028
Std Dev 0.4953

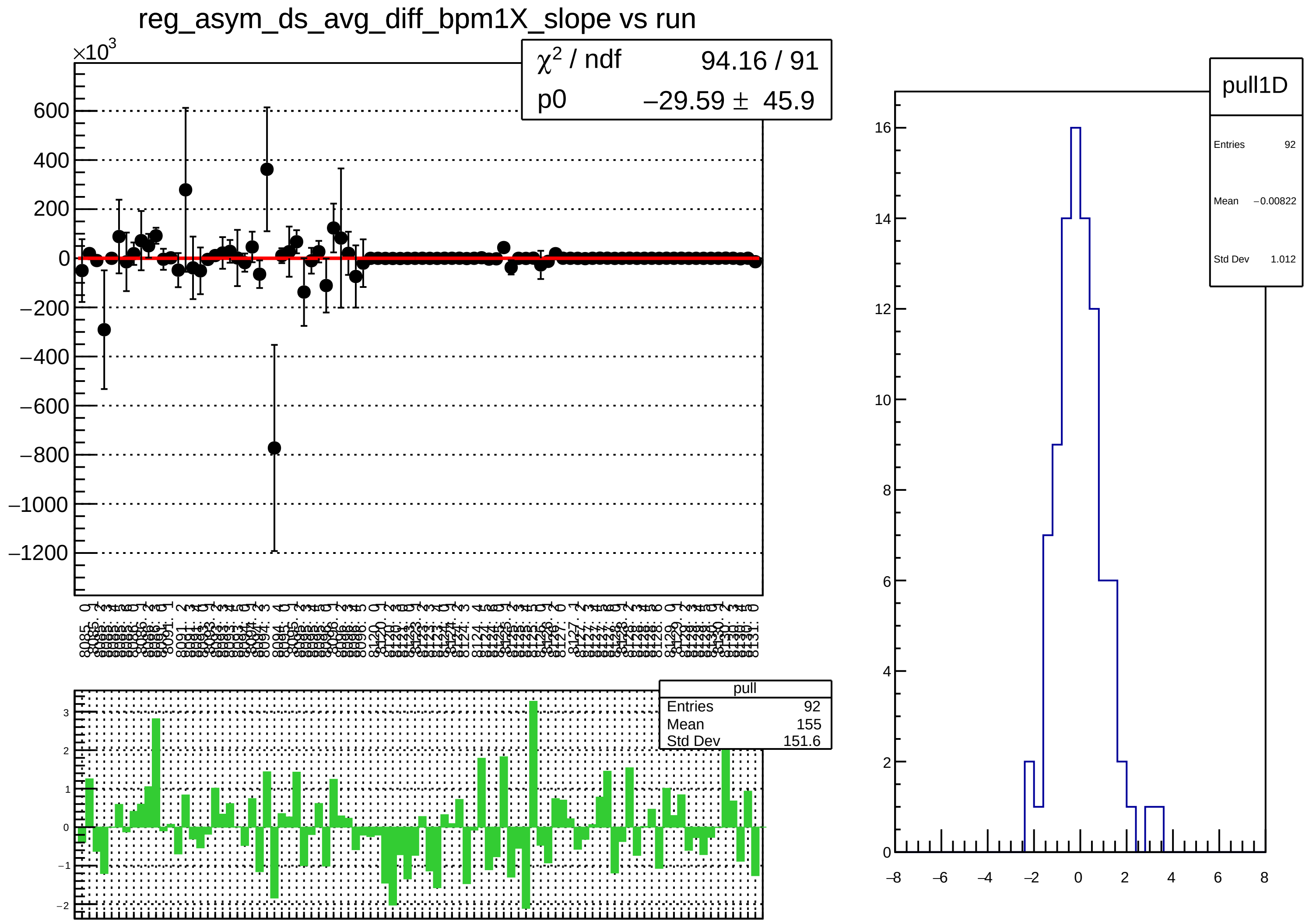

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 22.53 / 91
p0 −64.45 ± 1.411
pull
Entries 92
Mean 6488
Std Dev 6433
pull1D
Entries 92
Mean 0.000378
Std Dev 0.4948



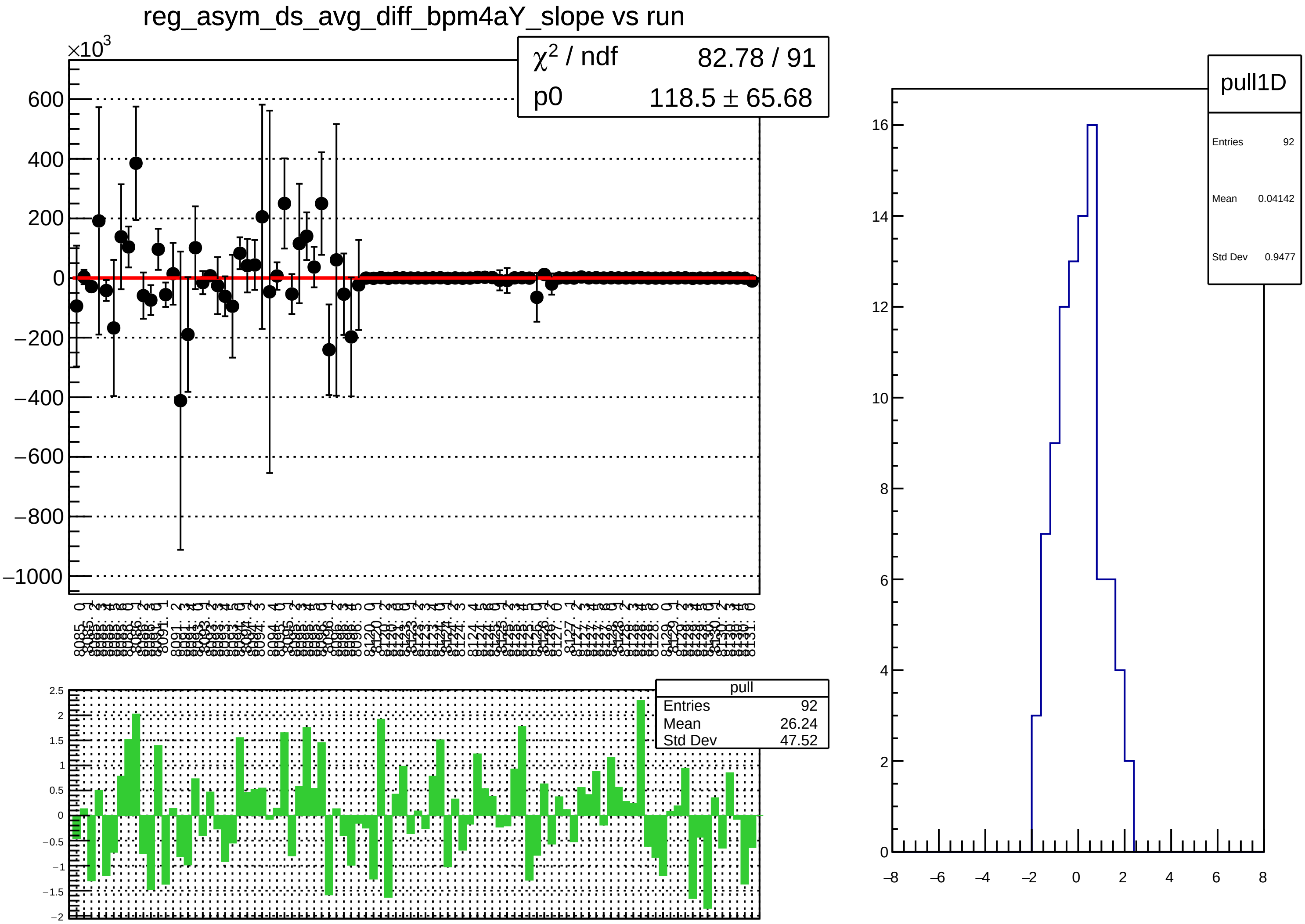
reg_asym_us_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 22.63 / 91
p0 13.21 ± 2.326
60
40
20
0
−20
−40
−60
pull
Entries 92
Mean −181.4
Std Dev 216.7
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0111
Std Dev 0.4958
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



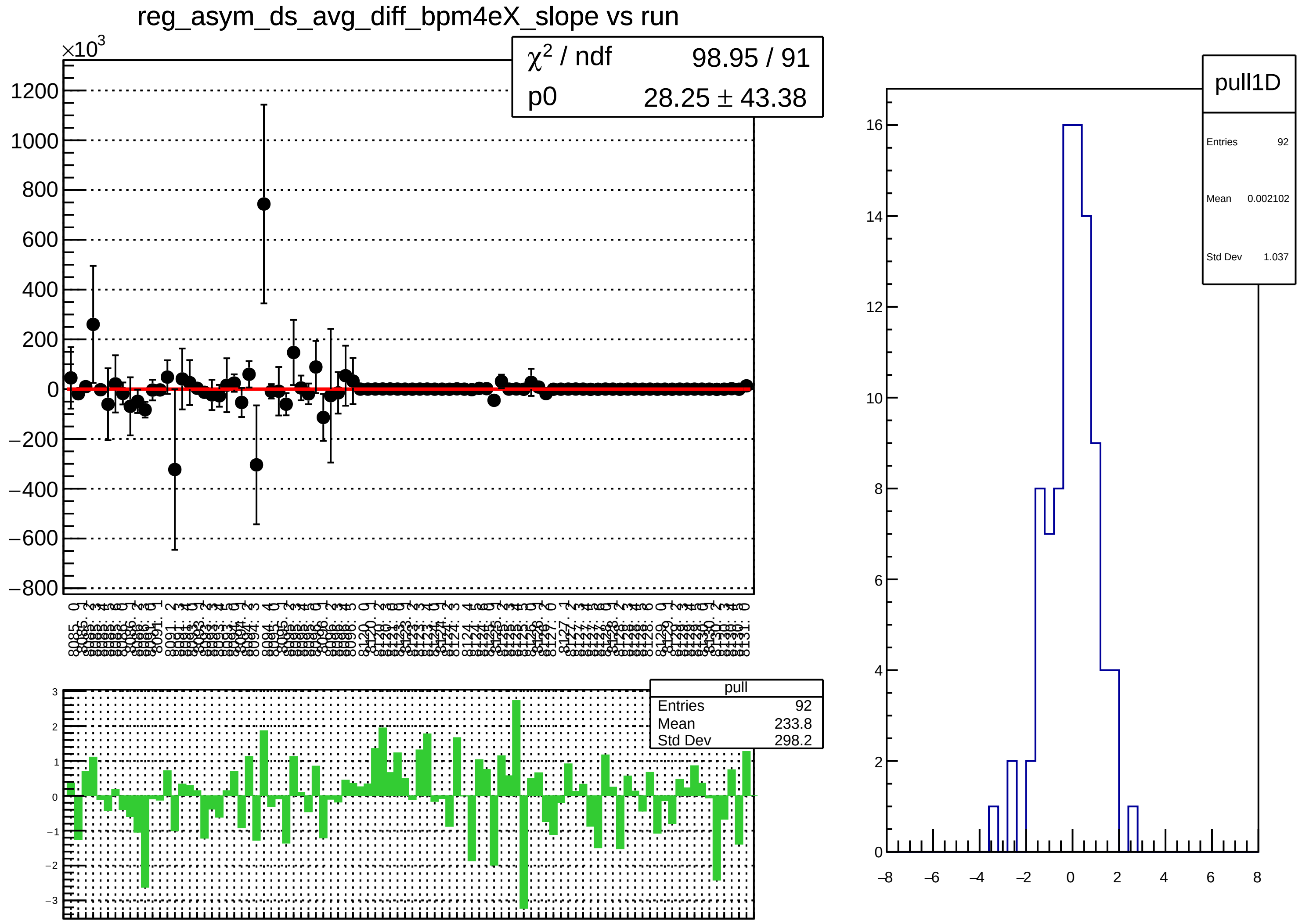
reg_asym_us_dd_diff_bpm12X_slope vs run
χ^2 / ndf 72.55 / 91
p0 1.387 ± 0.08884
pull
Entries 92
Mean −915.2
Std Dev 964.8
pull1D
Entries 92
Mean 0.01434
Std Dev 0.8879



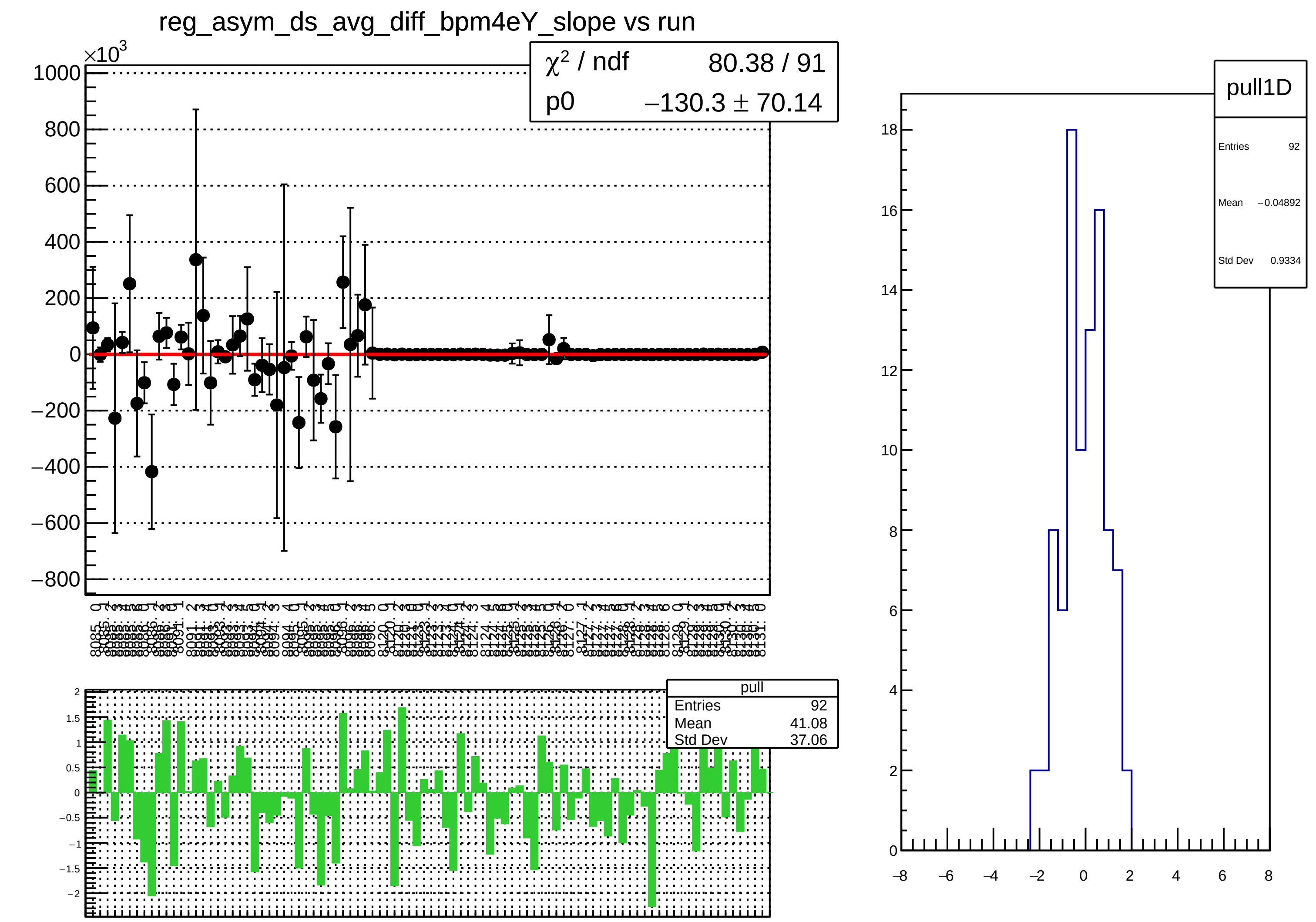
reg_asym_ds_avg_diff_bpm1X_slope vs run
$\times10^3$
χ^2 / ndf 94.16 / 91
p0 −29.59 ± 45.9
pull
Entries 92
Mean 155
Std Dev 151.6
pull1D
Entries 92
Mean −0.00822
Std Dev 1.012



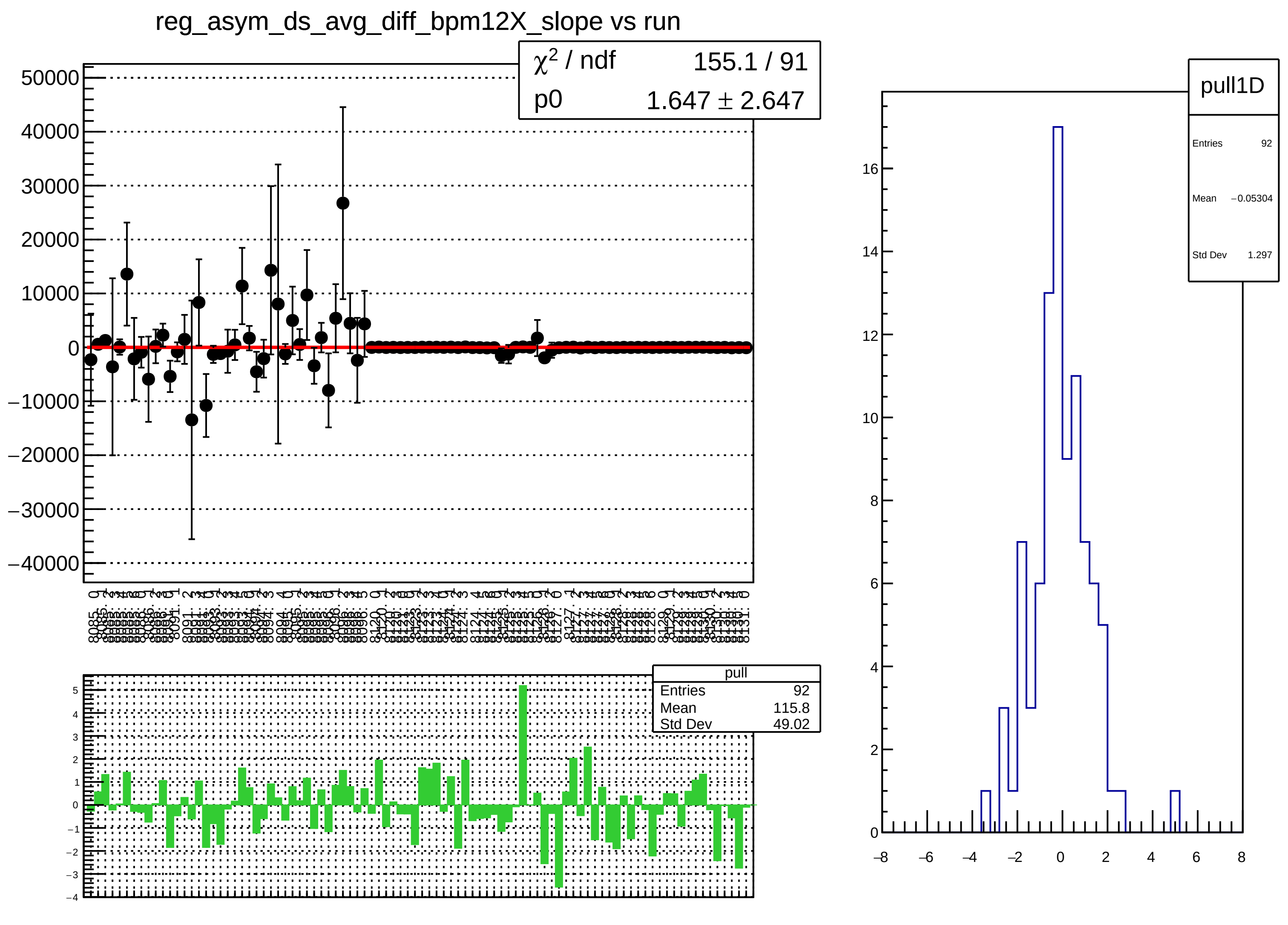
reg_asym_ds_avg_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 82.78 / 91
p0 118.5 ± 65.68
pull
Entries 92
Mean 26.24
Std Dev 47.52
pull1D
Entries 92
Mean 0.04142
Std Dev 0.9477



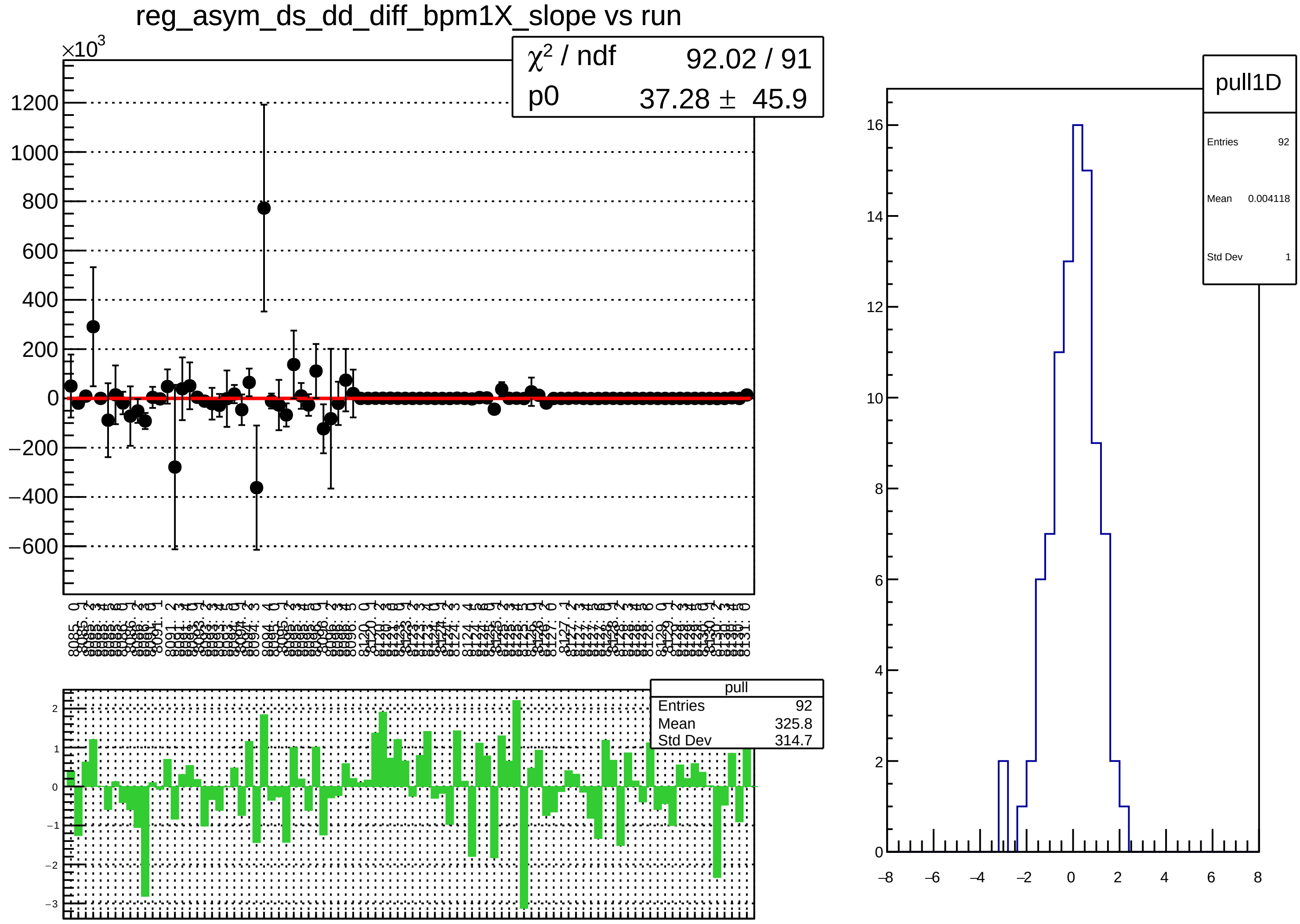
reg_asym_ds_avg_diff_bpm4eX_slope vs run
$\times 10^3$
χ^2 / ndf 98.95 / 91
p0 28.25 ± 43.38
pull
Entries 92
Mean 233.8
Std Dev 298.2
pull1D
Entries 92
Mean 0.002102
Std Dev 1.037



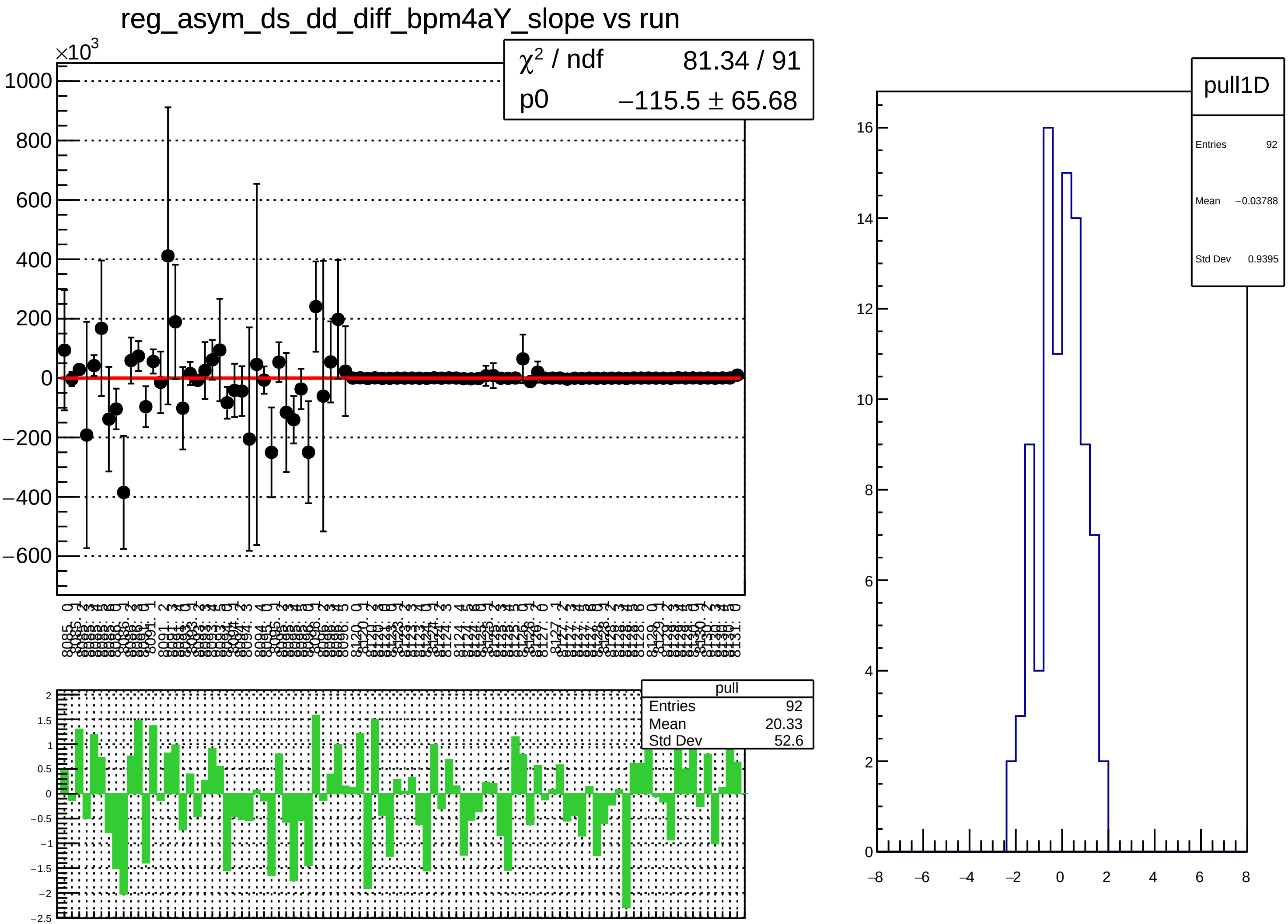
reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 80.38 / 91
p0 −130.3 ± 70.14
pull
Entries 92
Mean 41.08
Std Dev 37.06
pull1D
Entries 92
Mean −0.04892
Std Dev 0.9334



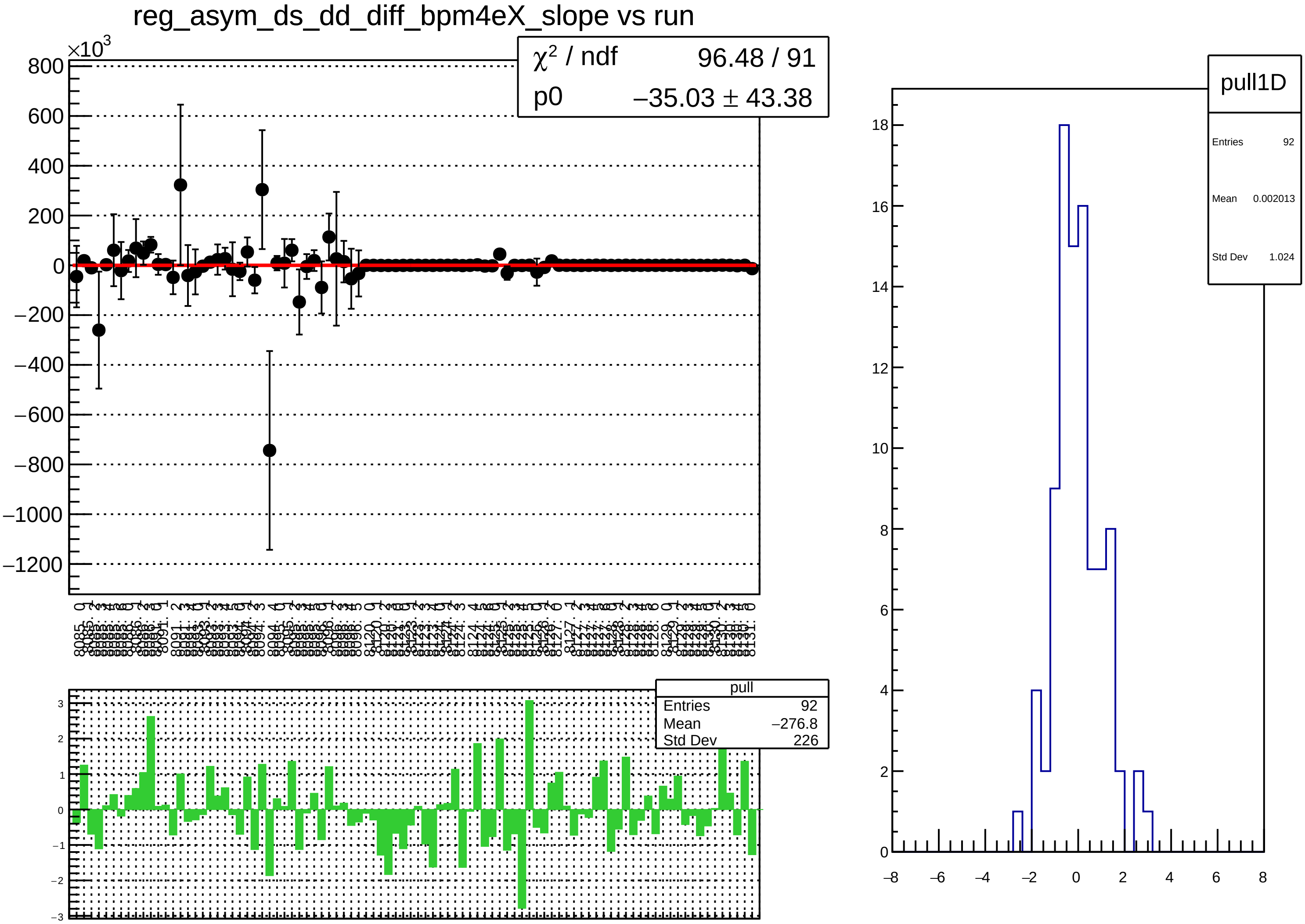
reg_asym_ds_avg_diff_bpm12X_slope vs run
χ^2 / ndf 155.1 / 91
p0 1.647 ± 2.647
pull
Entries 92
Mean 115.8
Std Dev 49.02
pull1D
Entries 92
Mean −0.05304
Std Dev 1.297



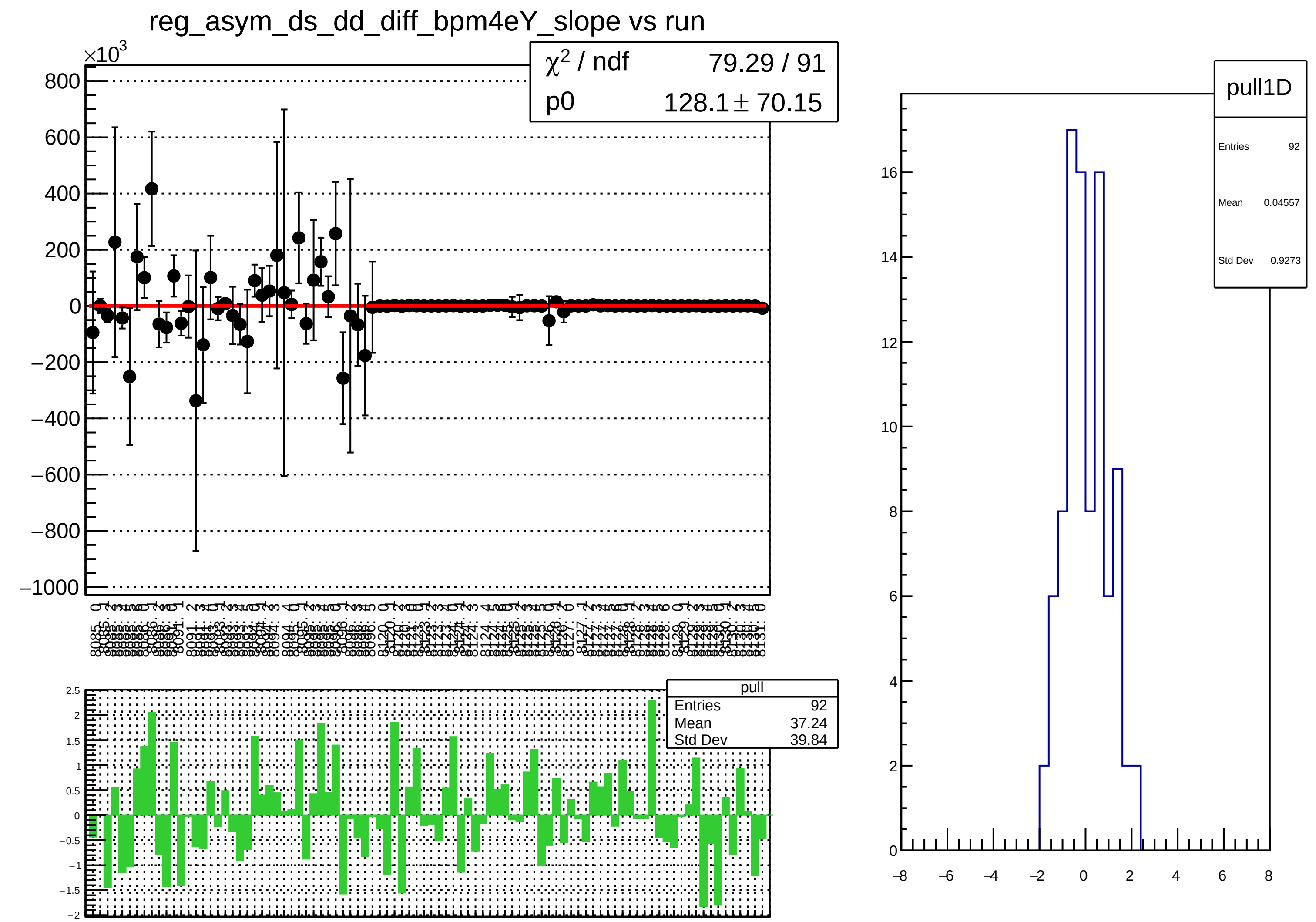
reg_asym_ds_dd_diff_bpm1X_slope vs run
$\times 10^3$
χ^2 / ndf 92.02 / 91
p0 37.28 ± 45.9
1200
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 325.8
Std Dev 314.7
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.004118
Std Dev 1
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



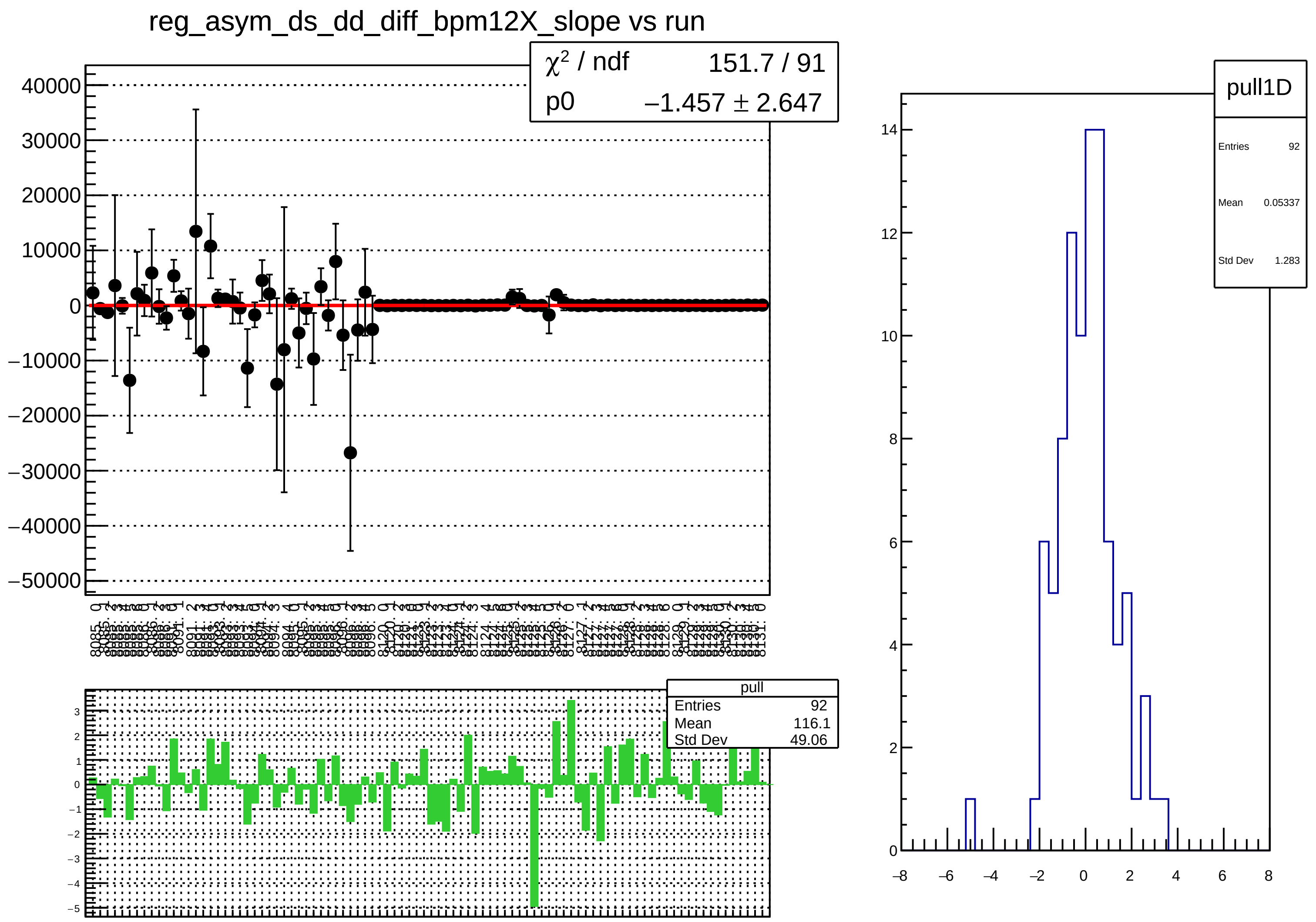
reg_asym_ds_dd_diff_bpm4aY_slope vs run
×10^3
χ^2 / ndf 81.34 / 91
p0 −115.5 ± 65.68
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 20.33
Std Dev 52.6
pull1D
Entries 92
Mean −0.03788
Std Dev 0.9395



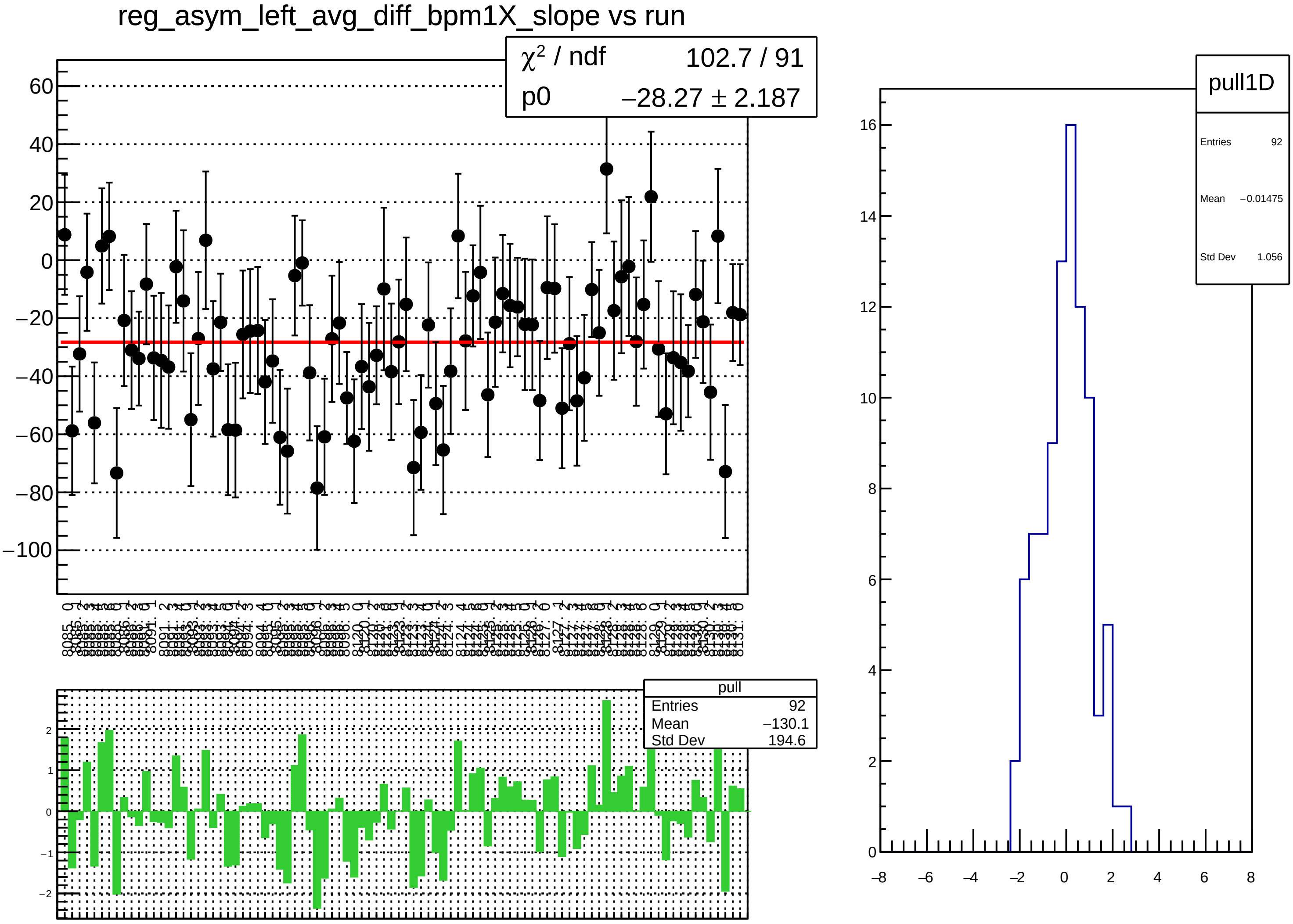
reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ2 / ndf 96.48 / 91
p0 −35.03 ± 43.38
×10^3
pull
Entries 92
Mean −276.8
Std Dev 226
pull1D
Entries 92
Mean 0.002013
Std Dev 1.024



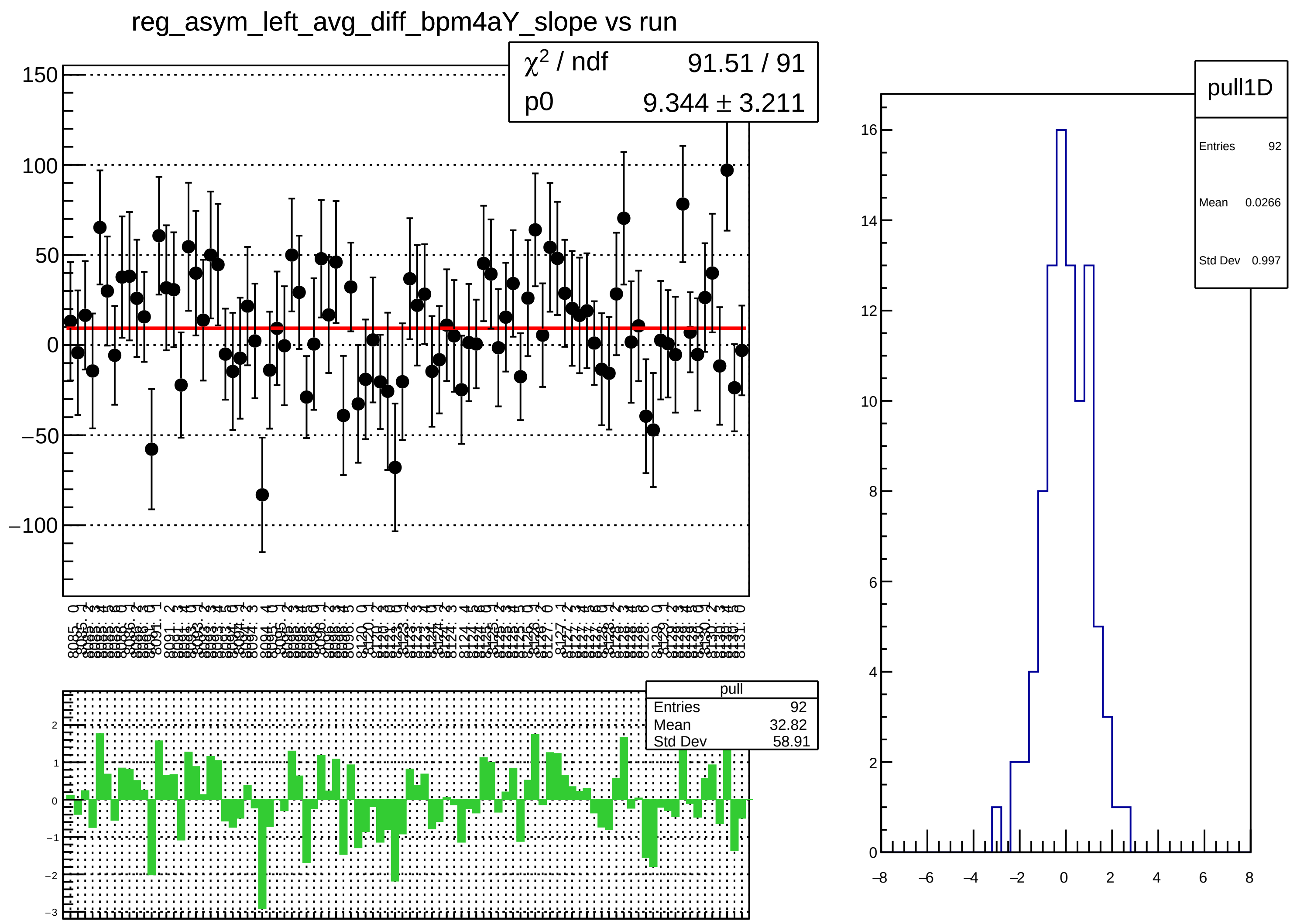
reg_asym_ds_dd_diff_bpm4eY_slope vs run
×10^3
χ^2 / ndf 79.29 / 91
p0 128.1 ± 70.15
pull
Entries 92
Mean 37.24
Std Dev 39.84
pull1D
Entries 92
Mean 0.04557
Std Dev 0.9273



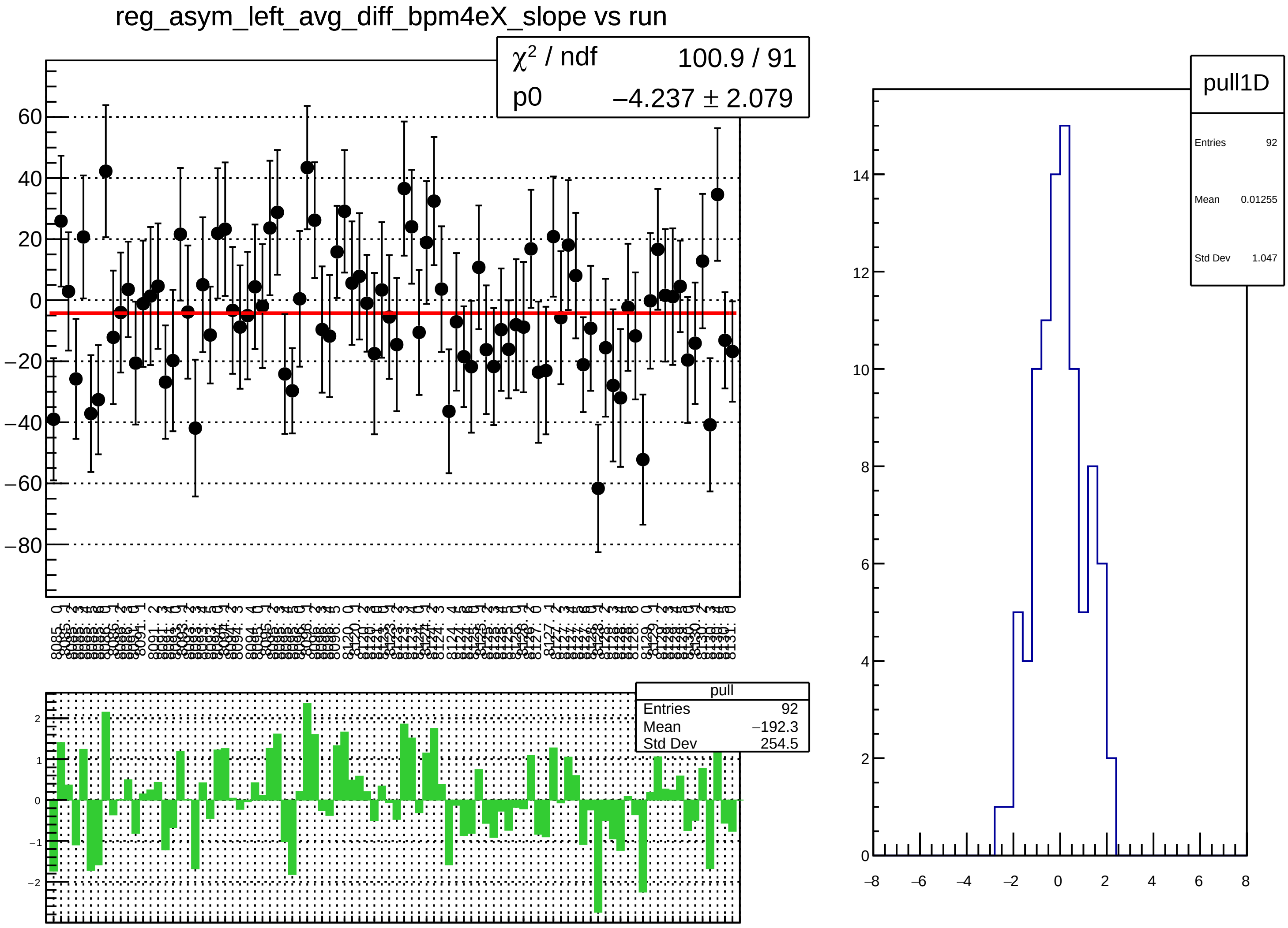
reg_asym_ds_dd_diff_bpm12X_slope vs run
χ^2 / ndf 151.7 / 91
p0 −1.457 ± 2.647
pull
Entries 92
Mean 116.1
Std Dev 49.06
pull1D
Entries 92
Mean 0.05337
Std Dev 1.283

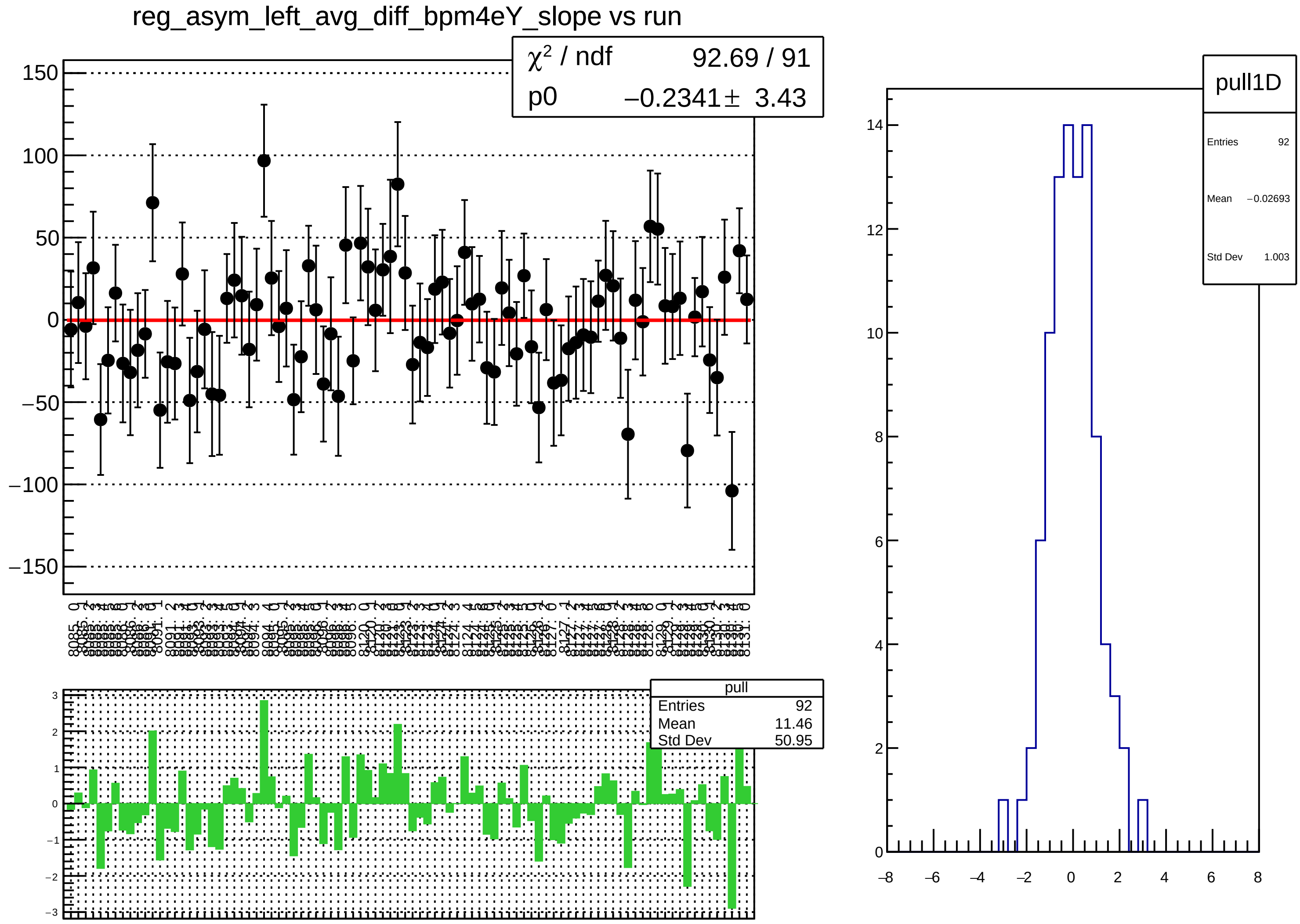


reg_asym_left_avg_diff_bpm1X_slope vs run
χ^2 / ndf 102.7 / 91
p0 −28.27 ± 2.187
pull
Entries 92
Mean −130.1
Std Dev 194.6
pull1D
Entries 92
Mean −0.01475
Std Dev 1.056

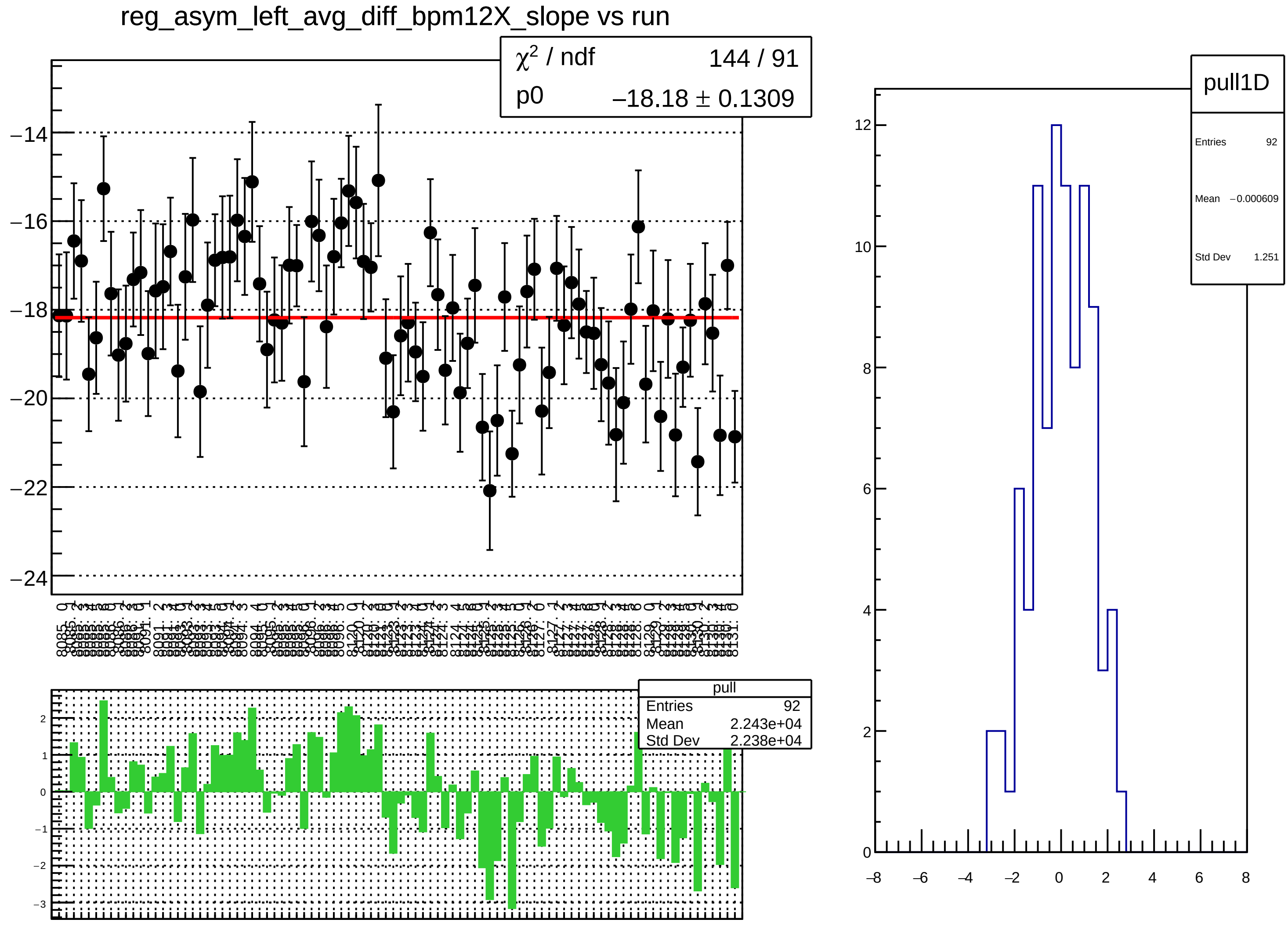


reg_asym_left_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 91.51 / 91
p0 9.344 ± 3.211
pull
Entries 92
Mean 32.82
Std Dev 58.91
pull1D
Entries 92
Mean 0.0266
Std Dev 0.997

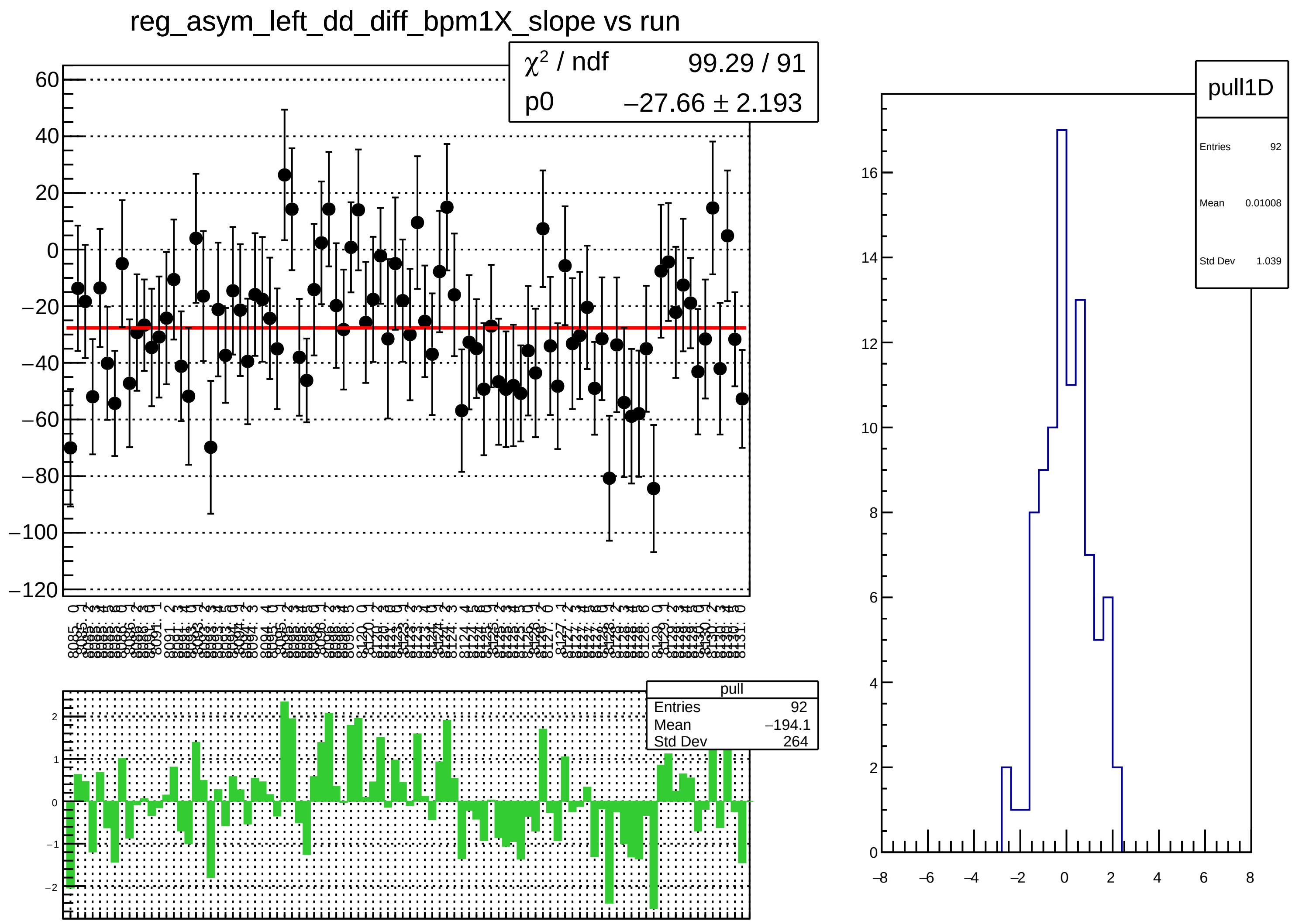

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 100.9 / 91
p0 −4.237 ± 2.079
pull
Entries 92
Mean −192.3
Std Dev 254.5
pull1D
Entries 92
Mean 0.01255
Std Dev 1.047

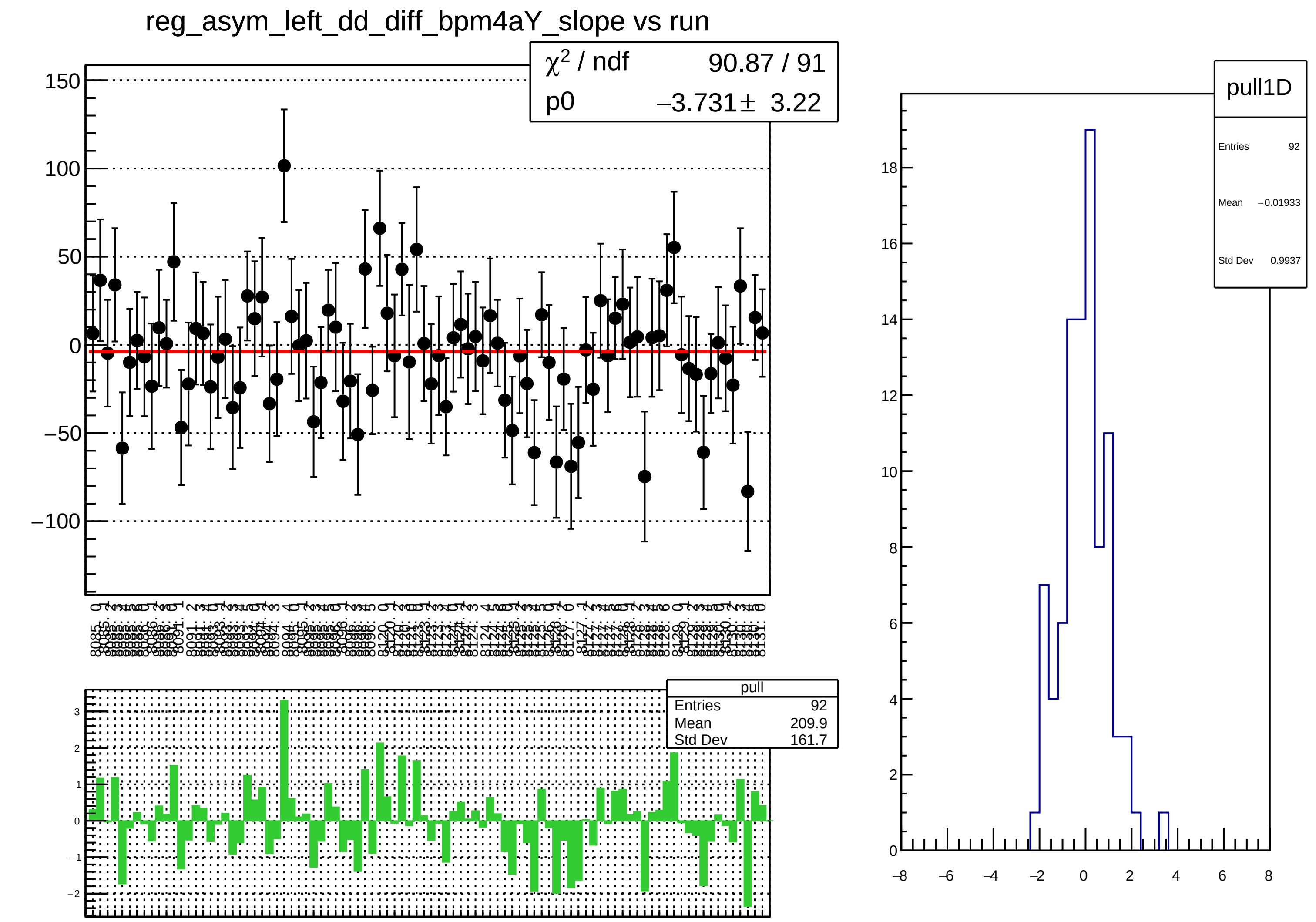


reg_asym_left_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 92.69 / 91
p0 −0.2341 ± 3.43
pull
Entries 92
Mean 11.46
Std Dev 50.95
pull1D
Entries 92
Mean −0.02693
Std Dev 1.003

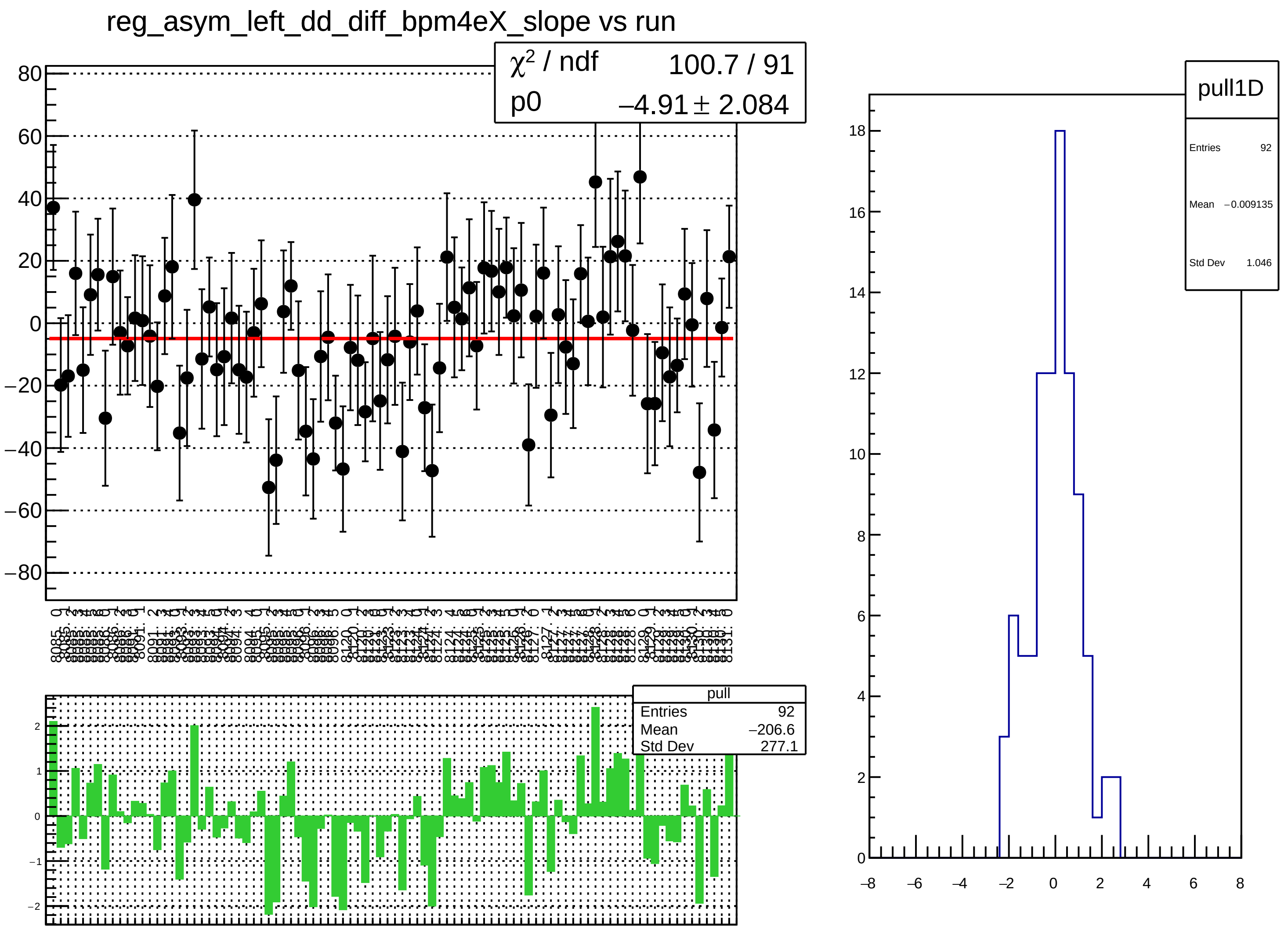


reg_asym_left_avg_diff_bpm12X_slope vs run
χ² / ndf 144 / 91
p0 −18.18 ± 0.1309
pull
Entries 92
Mean 2.243e+04
Std Dev 2.238e+04
pull1D
Entries 92
Mean −0.000609
Std Dev 1.251

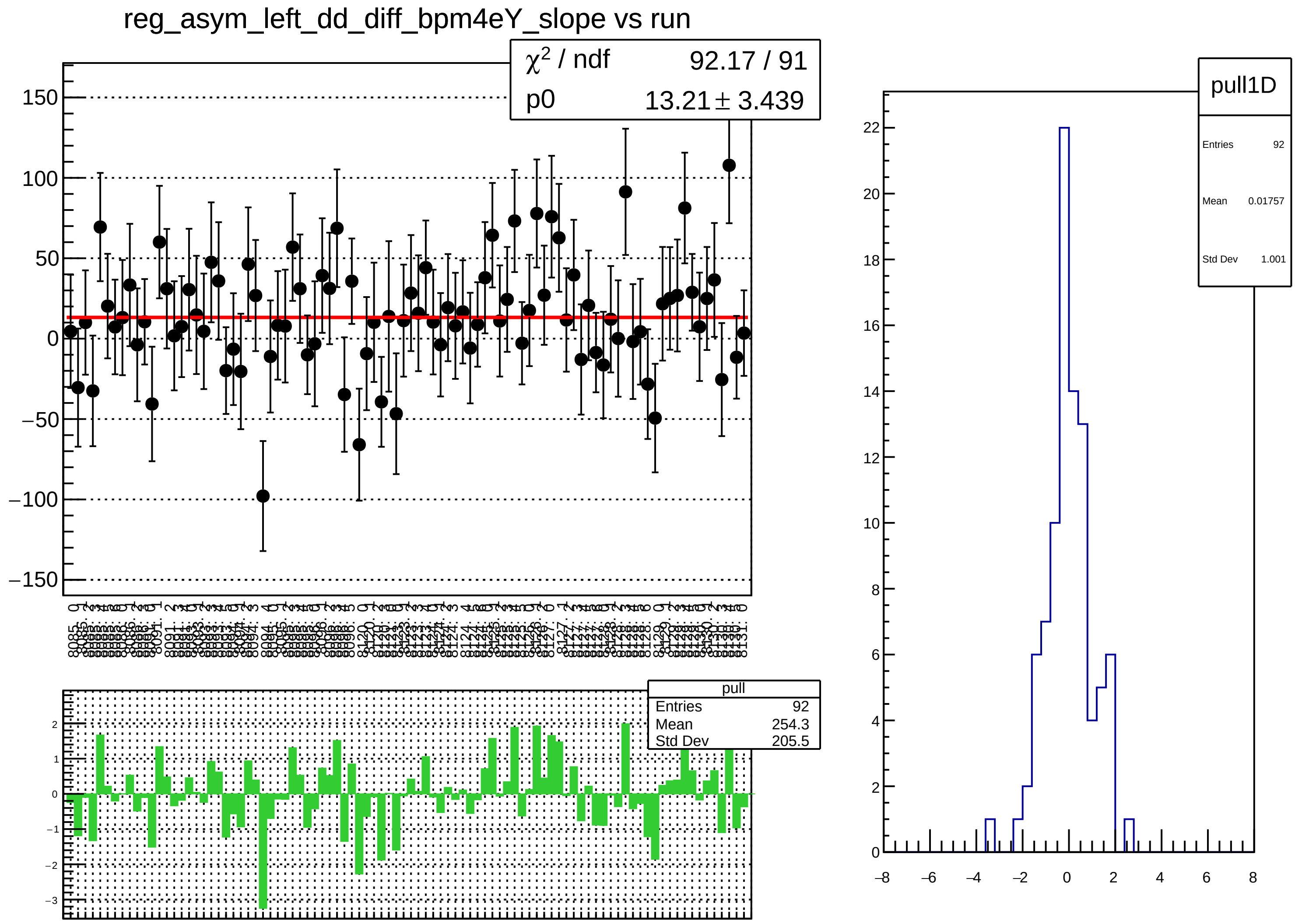

reg_asym_left_dd_diff_bpm1X_slope vs run
χ^2 / ndf 99.29 / 91
p0 −27.66 ± 2.193
pull
Entries 92
Mean −194.1
Std Dev 264
pull1D
Entries 92
Mean 0.01008
Std Dev 1.039



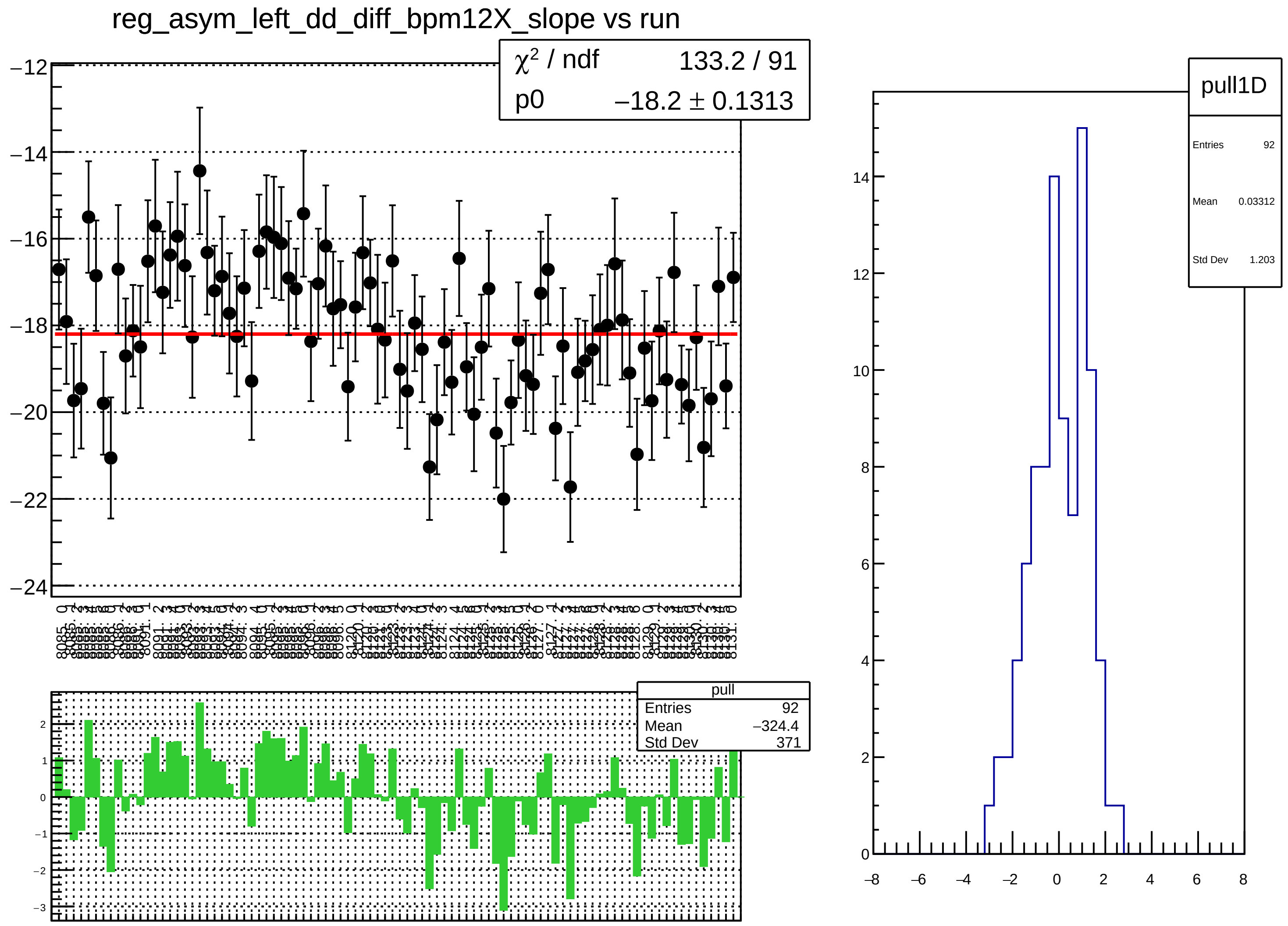
reg_asym_left_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 90.87 / 91
p0 −3.731 ± 3.22
pull
Entries 92
Mean 209.9
Std Dev 161.7
pull1D
Entries 92
Mean −0.01933
Std Dev 0.9937

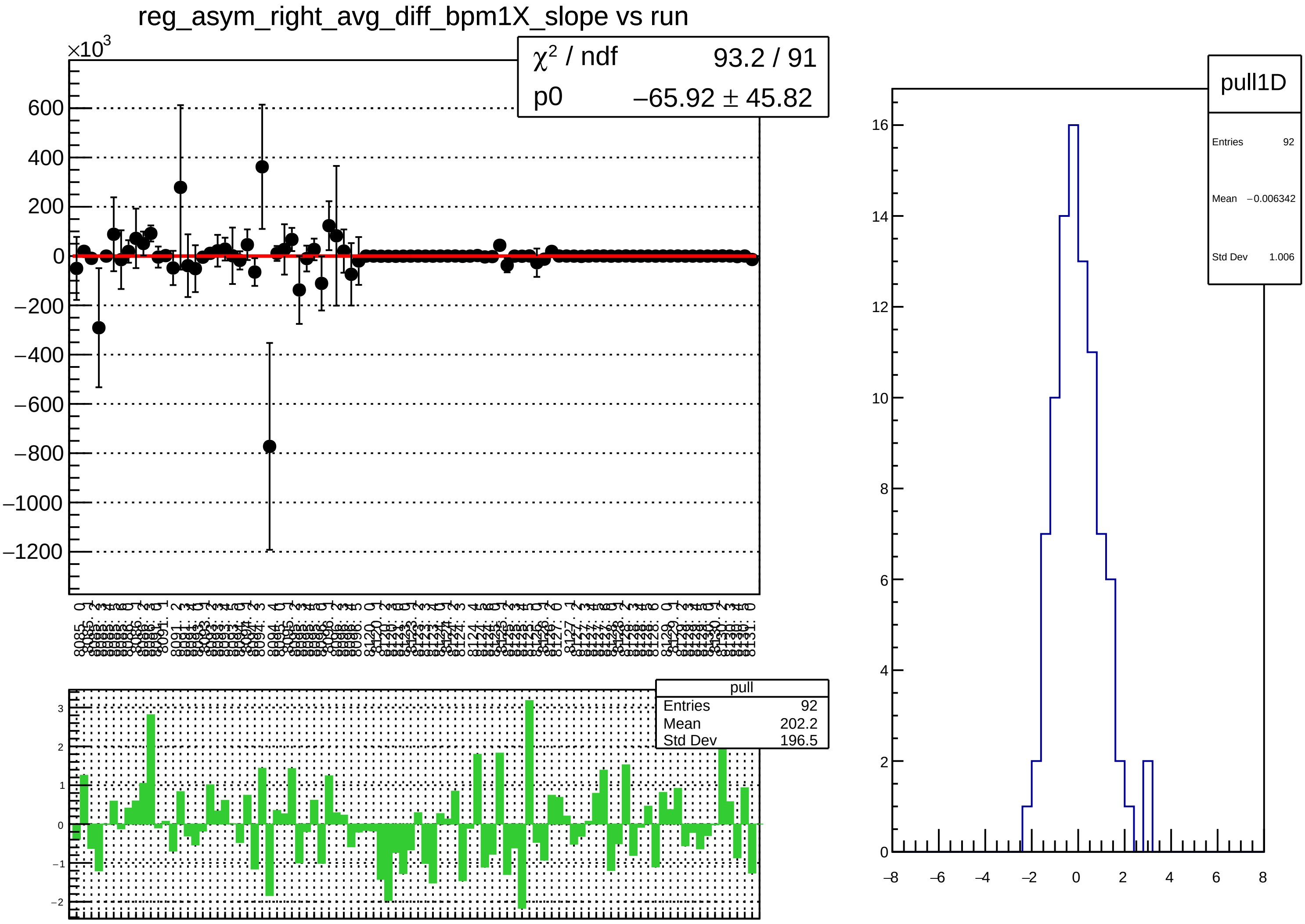


reg_asym_left_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 100.7 / 91
p0 −4.91 ± 2.084
pull
Entries 92
Mean −206.6
Std Dev 277.1
pull1D
Entries 92
Mean −0.009135
Std Dev 1.046

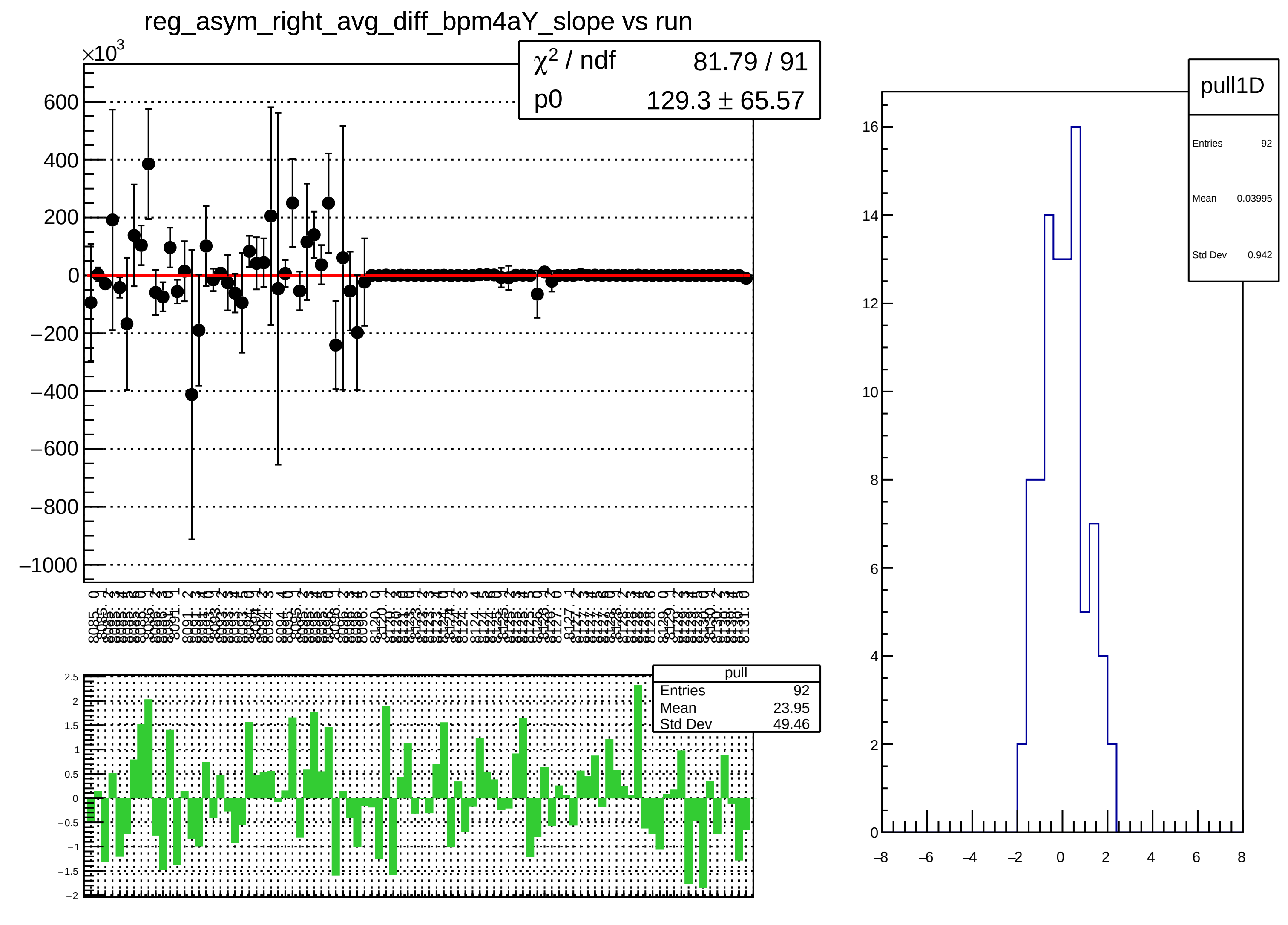


reg_asym_left_dd_diff_bpm4eY_slope vs run
χ2 / ndf 92.17 / 91
p0 13.21 ± 3.439
pull
Entries 92
Mean 254.3
Std Dev 205.5
pull1D
Entries 92
Mean 0.01757
Std Dev 1.001

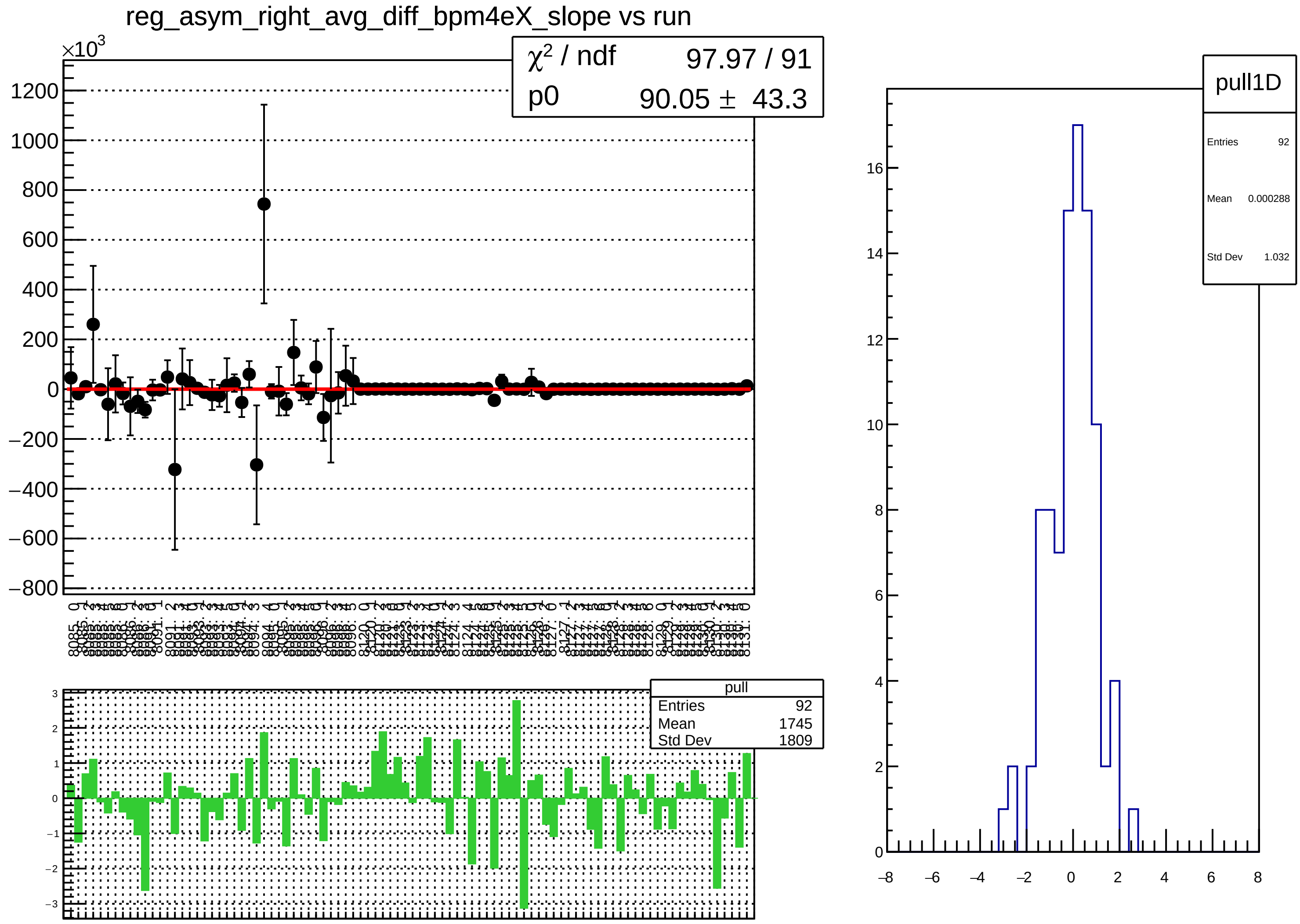

reg_asym_left_dd_diff_bpm12X_slope vs run
χ^2 / ndf 133.2 / 91
p0 −18.2 ± 0.1313
pull
Entries 92
Mean −324.4
Std Dev 371
pull1D
Entries 92
Mean 0.03312
Std Dev 1.203



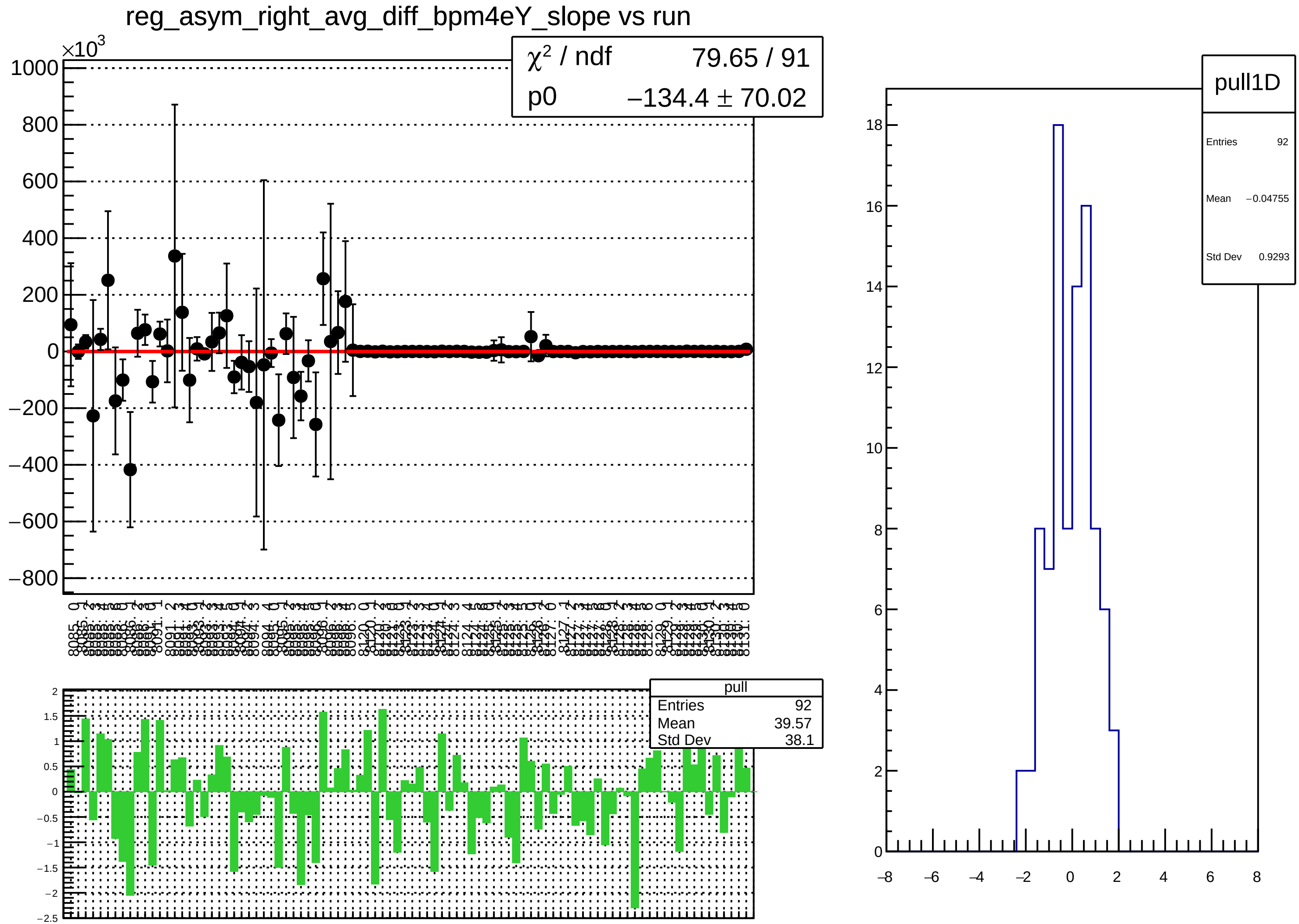
reg_asym_right_avg_diff_bpm1X_slope vs run
×10^3
χ^2 / ndf 93.2 / 91
p0 −65.92 ± 45.82
pull
Entries 92
Mean 202.2
Std Dev 196.5
pull1D
Entries 92
Mean −0.006342
Std Dev 1.006



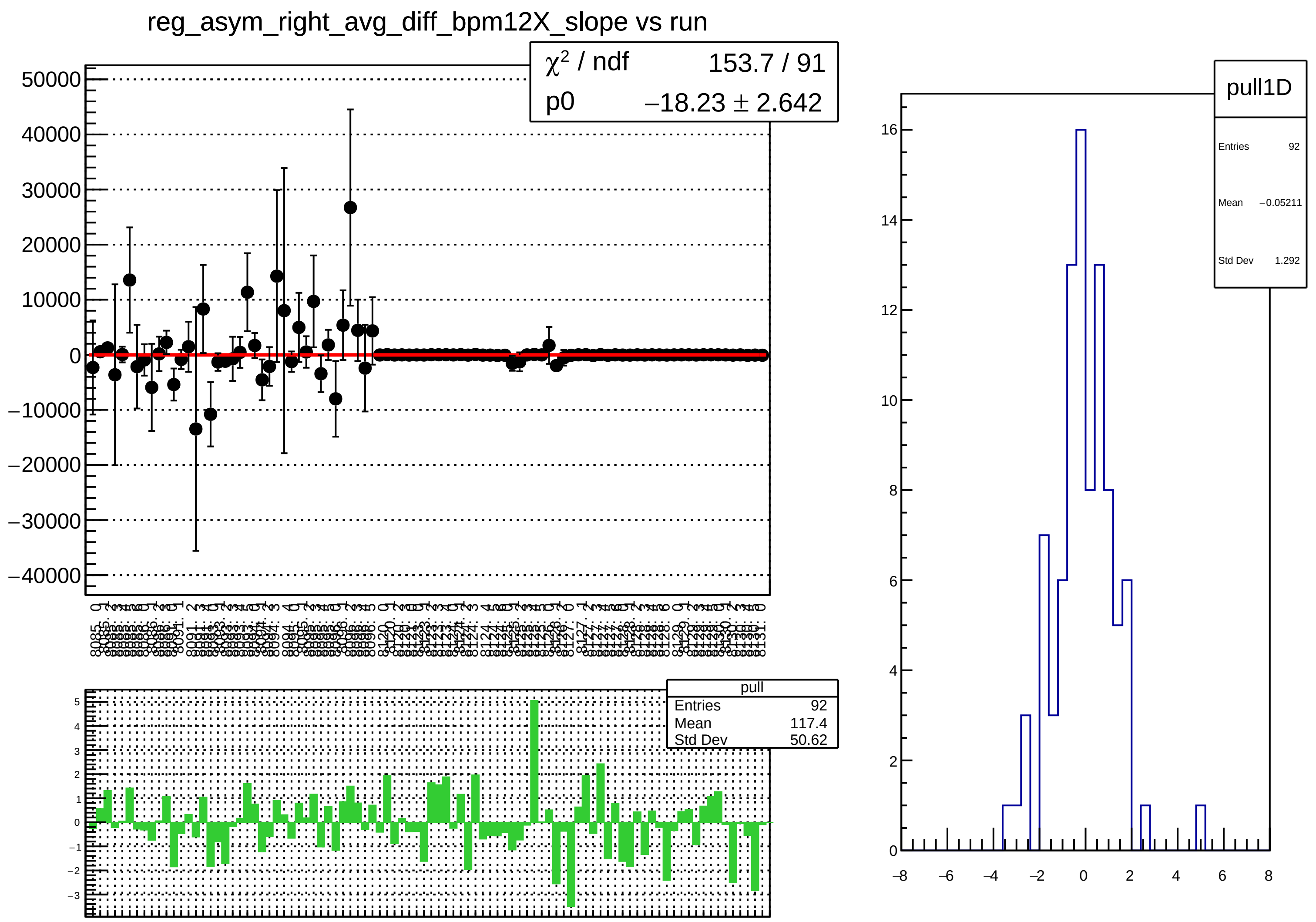
reg_asym_right_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 81.79 / 91
p0 129.3 ± 65.57
×10^3
pull
Entries 92
Mean 23.95
Std Dev 49.46
pull1D
Entries 92
Mean 0.03995
Std Dev 0.942

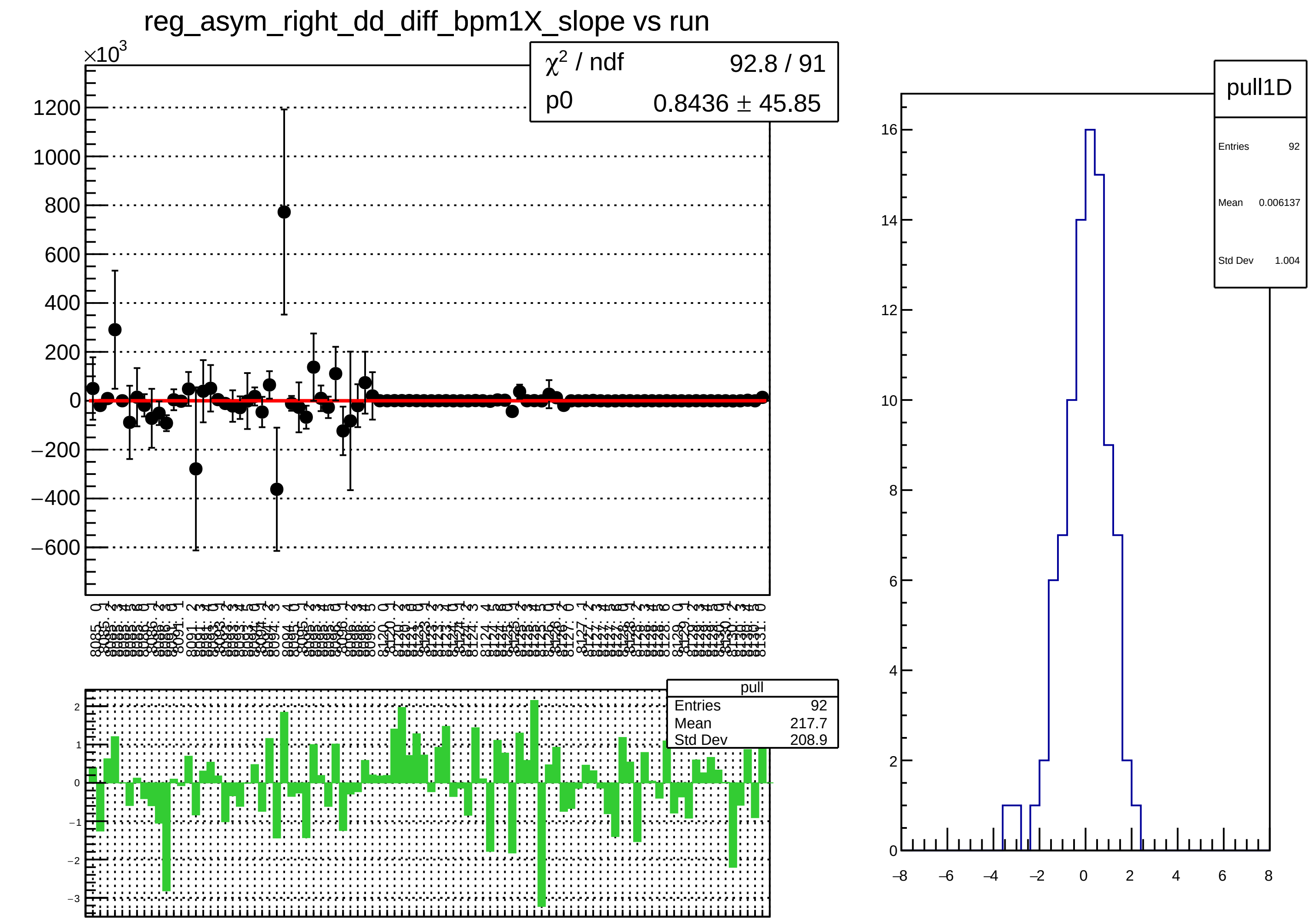


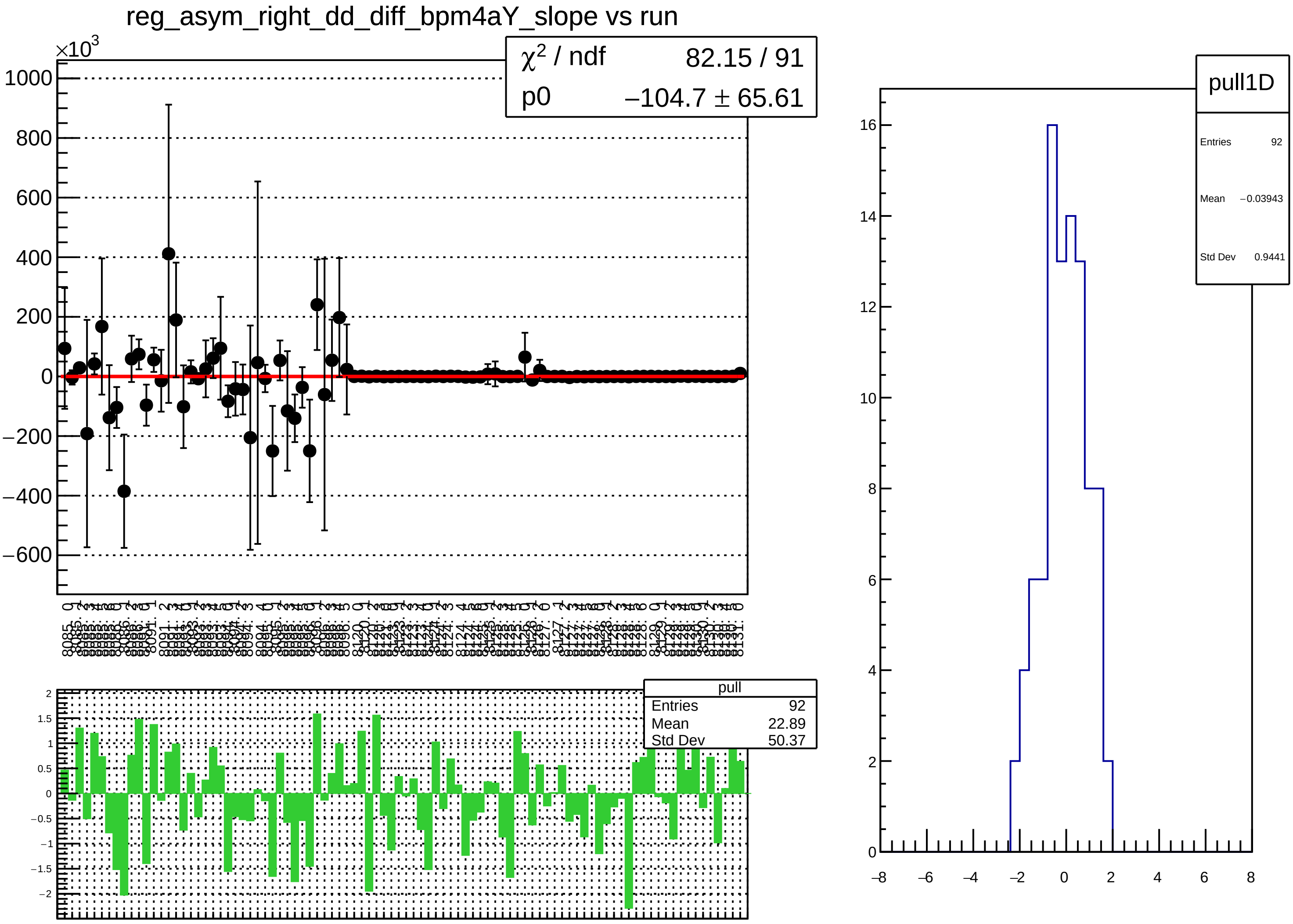
reg_asym_right_avg_diff_bpm4eX_slope vs run
$\times 10^3$
χ^2 / ndf 97.97 / 91
p0 90.05 ± 43.3
pull
Entries 92
Mean 1745
Std Dev 1809
pull1D
Entries 92
Mean 0.000288
Std Dev 1.032



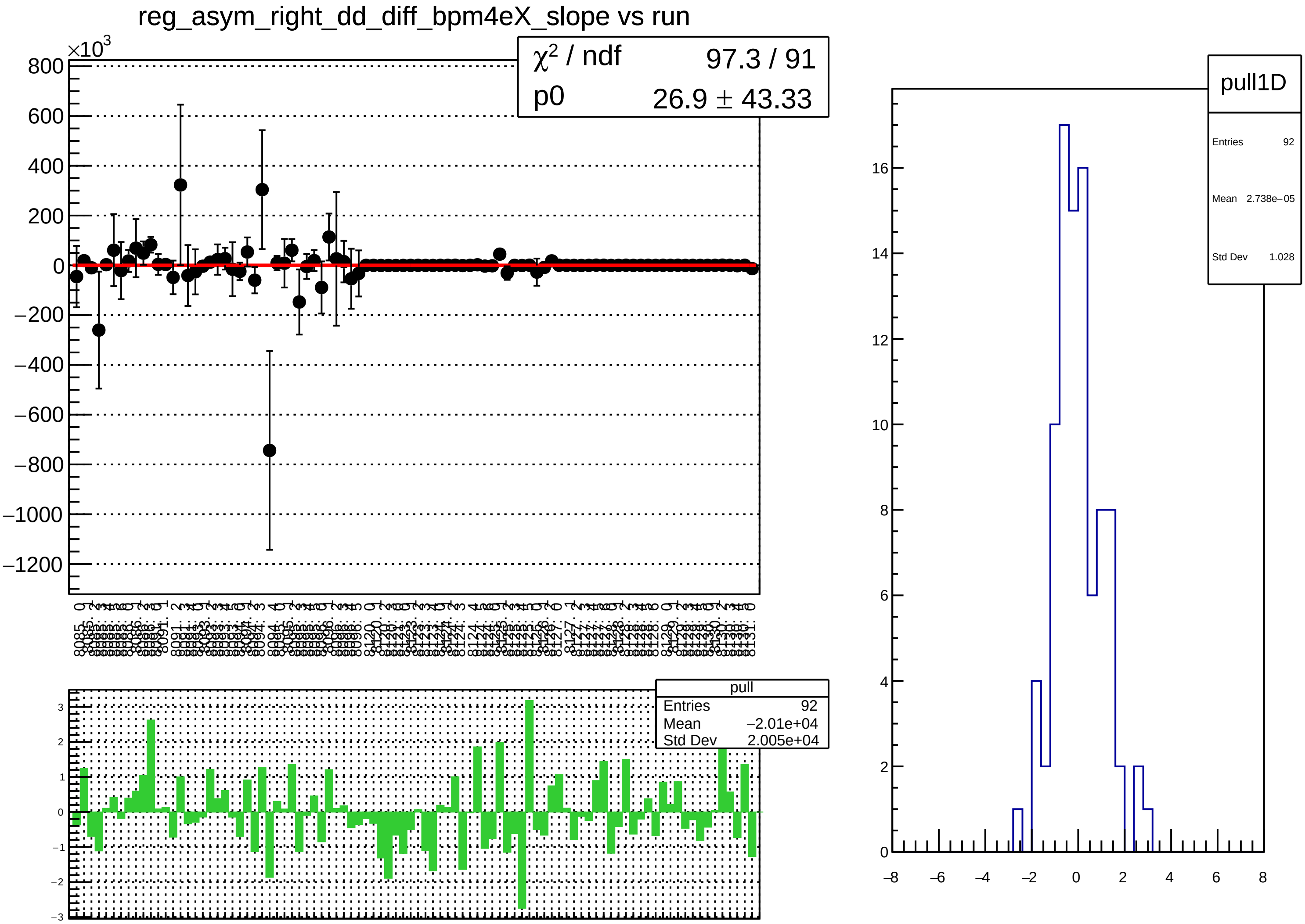
reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 79.65 / 91
p0 −134.4 ± 70.02
×10³
pull
Entries 92
Mean 39.57
Std Dev 38.1
pull1D
Entries 92
Mean −0.04755
Std Dev 0.9293


reg_asym_right_avg_diff_bpm12X_slope vs run
χ2 / ndf 153.7 / 91
p0 −18.23 ± 2.642
pull
Entries 92
Mean 117.4
Std Dev 50.62
pull1D
Entries 92
Mean −0.05211
Std Dev 1.292

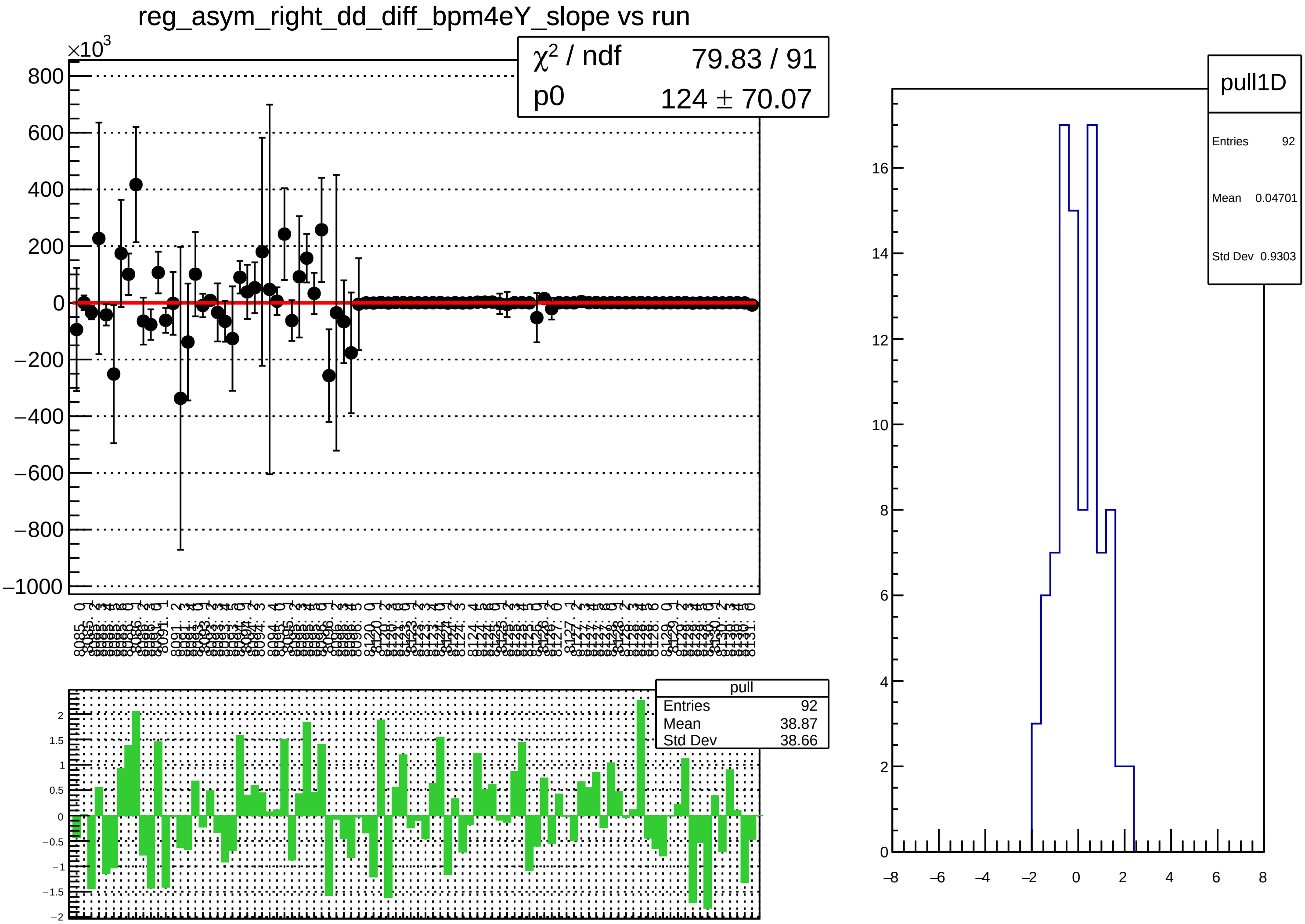

reg_asym_right_dd_diff_bpm1X_slope vs run
$\times10^3$
χ^2 / ndf 92.8 / 91
p0 0.8436 ± 45.85
1200
1000
800
600
400
200
0
−200
−400
−600
pull
Entries 92
Mean 217.7
Std Dev 208.9
2
1
0
−1
−2
−3
pull1D
Entries 92
Mean 0.006137
Std Dev 1.004
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

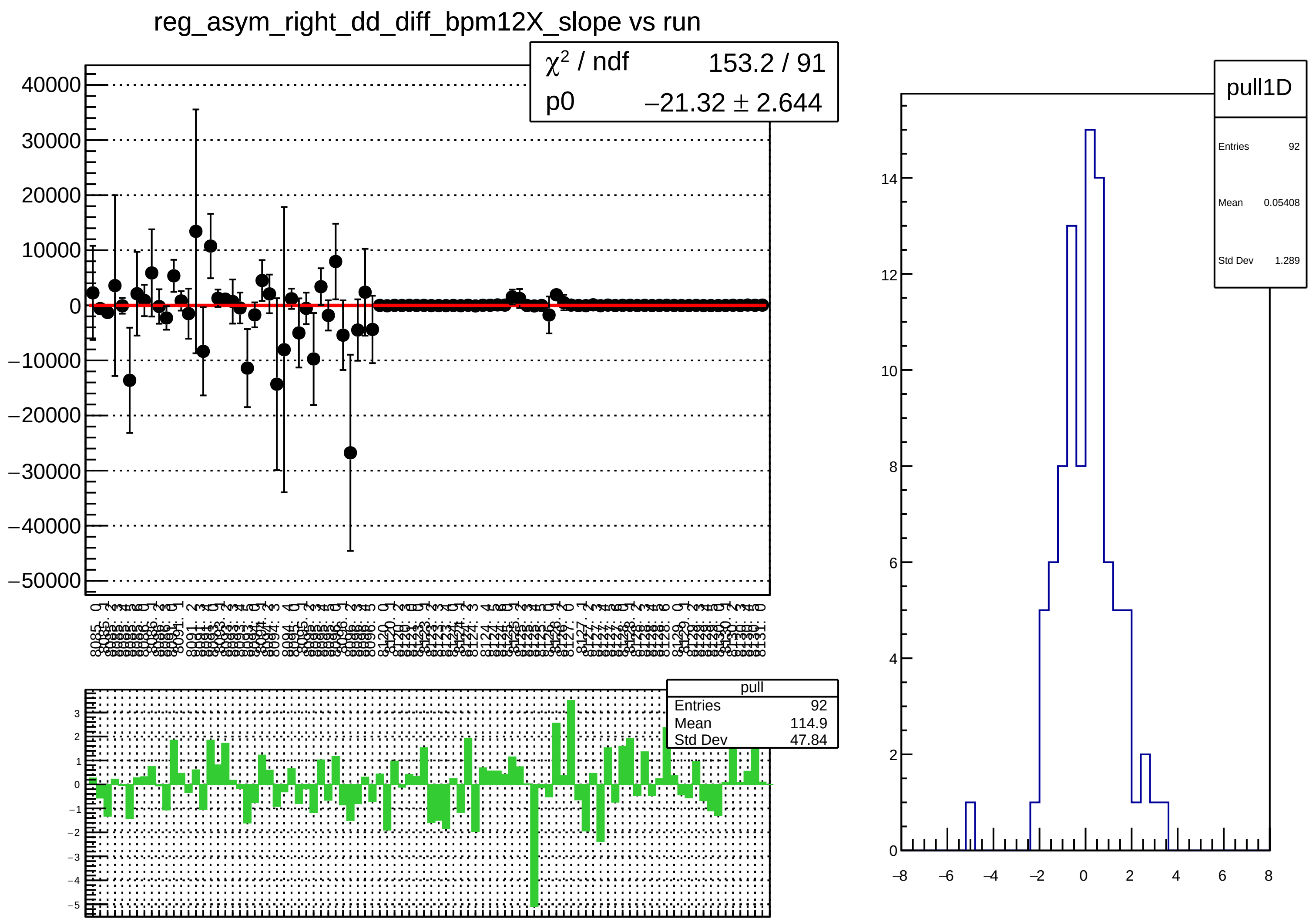


reg_asym_right_dd_diff_bpm4aY_slope vs run
$\times10^3$
χ^2 / ndf 82.15 / 91
p0 −104.7 ± 65.61
pull
Entries 92
Mean 22.89
Std Dev 50.37
pull1D
Entries 92
Mean −0.03943
Std Dev 0.9441

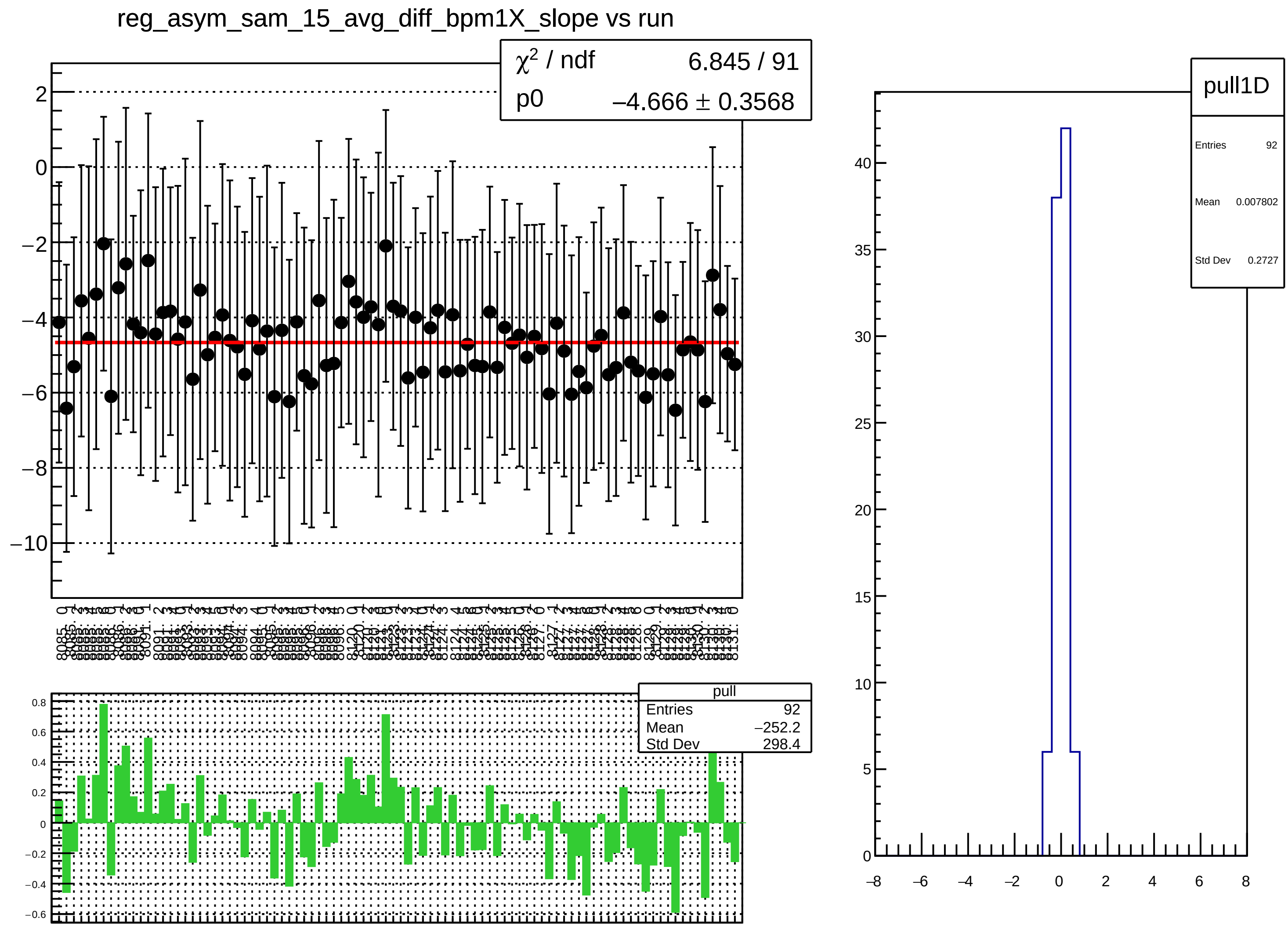


reg_asym_right_dd_diff_bpm4eX_slope vs run
$\times 10^3$
χ^2 / ndf 97.3 / 91
p0 26.9 ± 43.33
pull
Entries 92
Mean −2.01e+04
Std Dev 2.005e+04
pull1D
Entries 92
Mean 2.738e−05
Std Dev 1.028

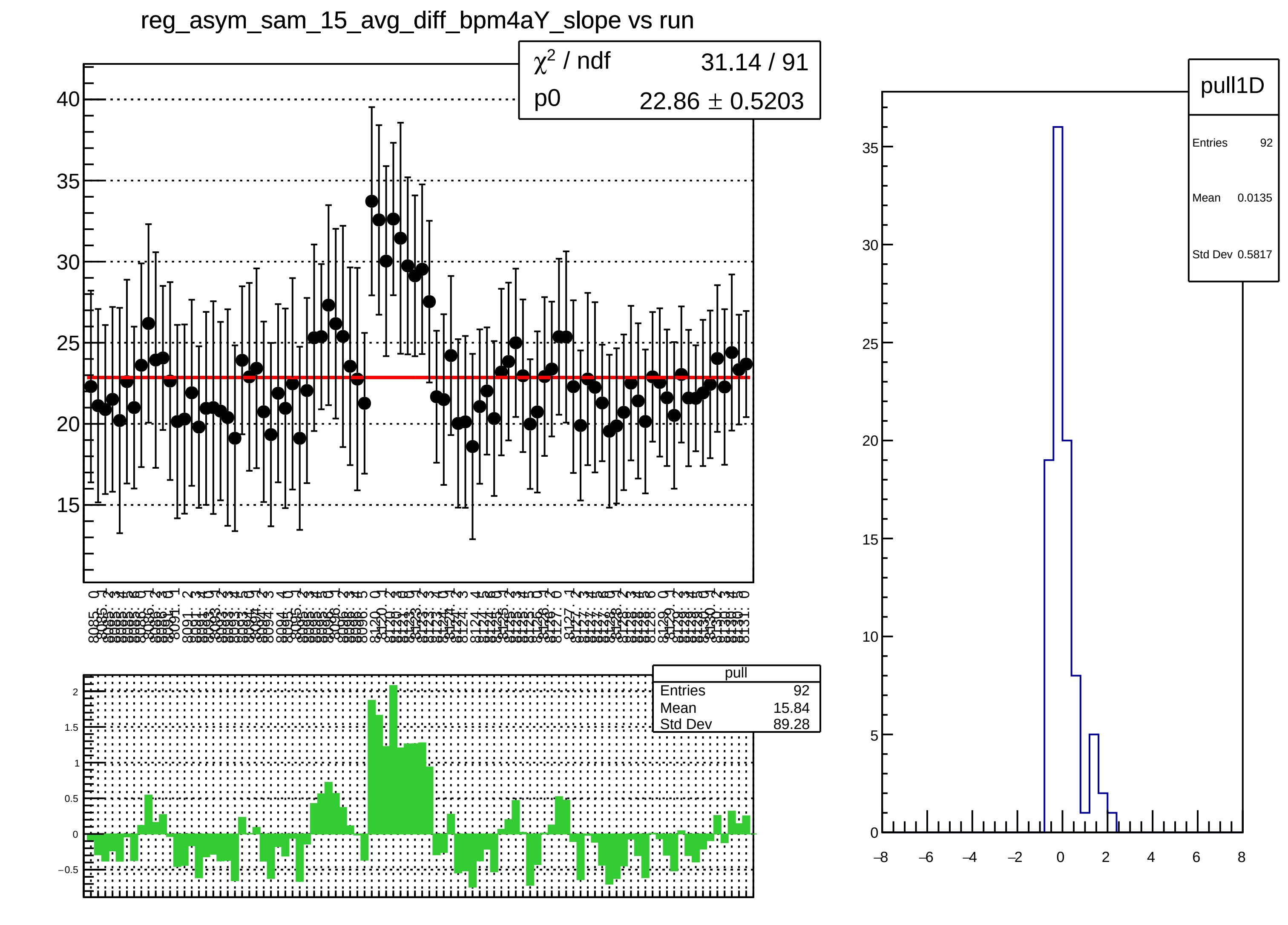

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 79.83 / 91
p0 124 ± 70.07
×10^3
pull
Entries 92
Mean 38.87
Std Dev 38.66
pull1D
Entries 92
Mean 0.04701
Std Dev 0.9303



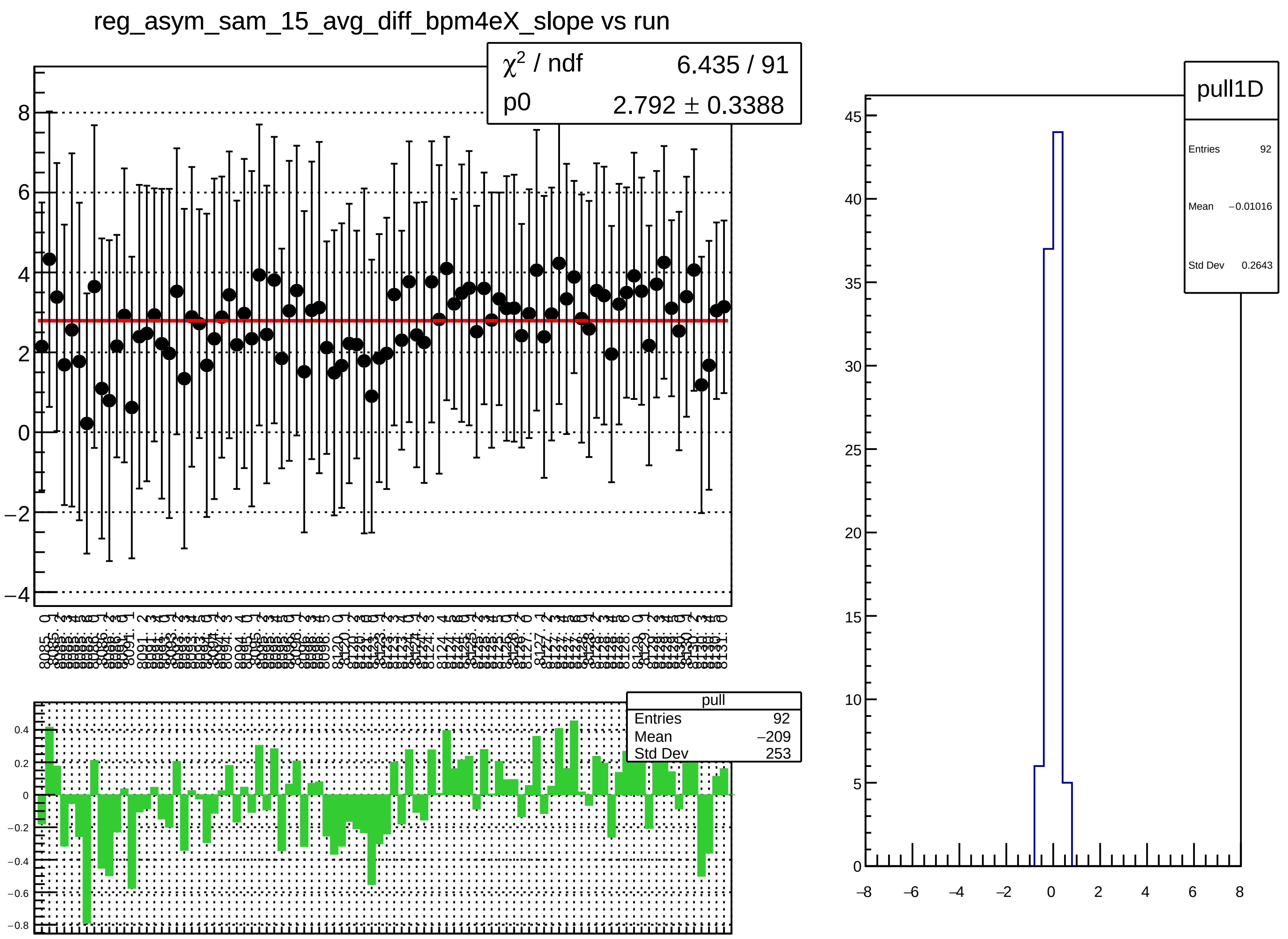
reg_asym_right_dd_diff_bpm12X_slope vs run
χ^2 / ndf 153.2 / 91
p0 −21.32 ± 2.644
pull
Entries 92
Mean 114.9
Std Dev 47.84
pull1D
Entries 92
Mean 0.05408
Std Dev 1.289

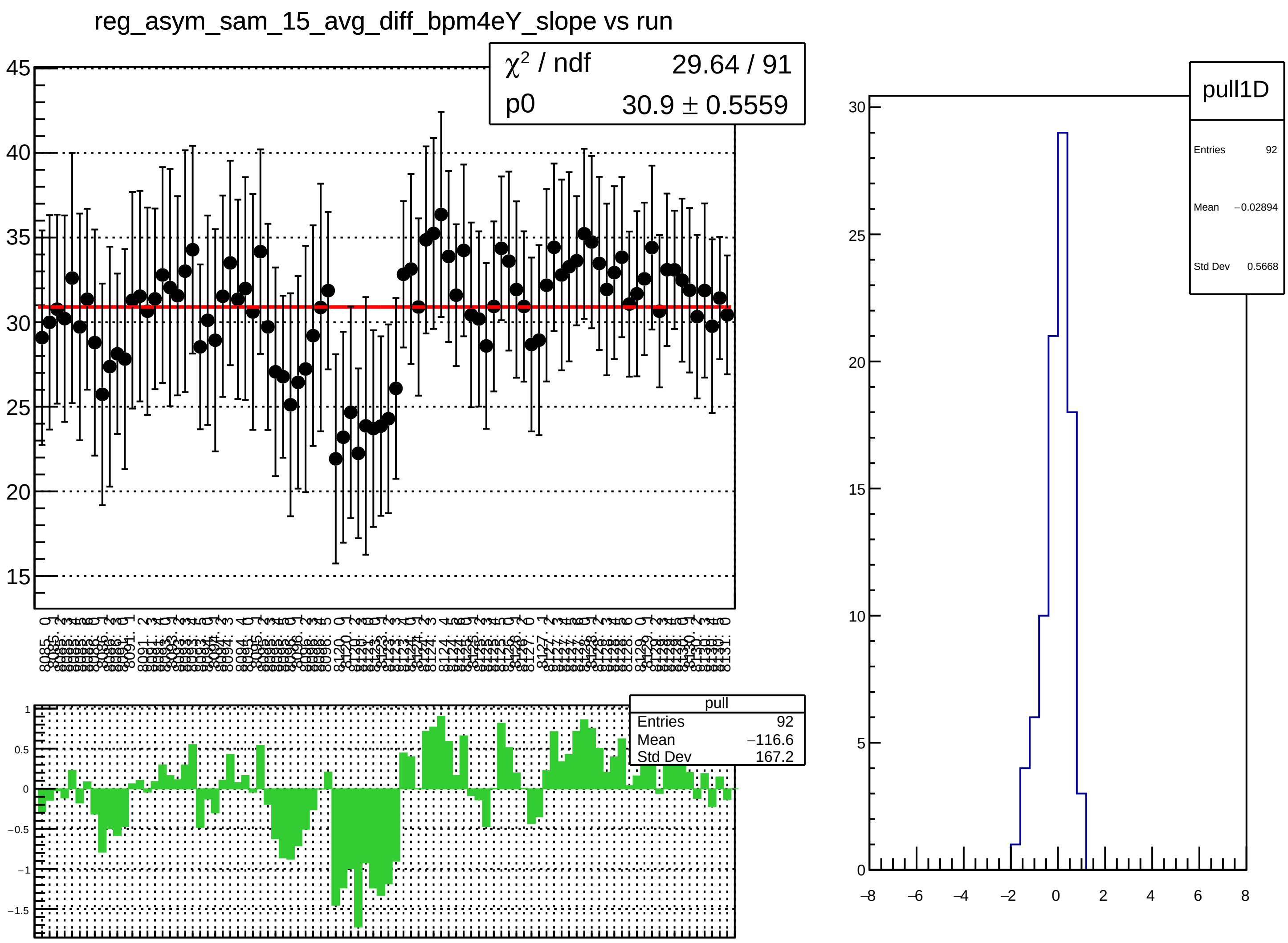


reg_asym_sam_15_avg_diff_bpm1X_slope vs run
χ^2 / ndf 6.845 / 91
p0 −4.666 ± 0.3568
pull
Entries 92
Mean −252.2
Std Dev 298.4
pull1D
Entries 92
Mean 0.007802
Std Dev 0.2727

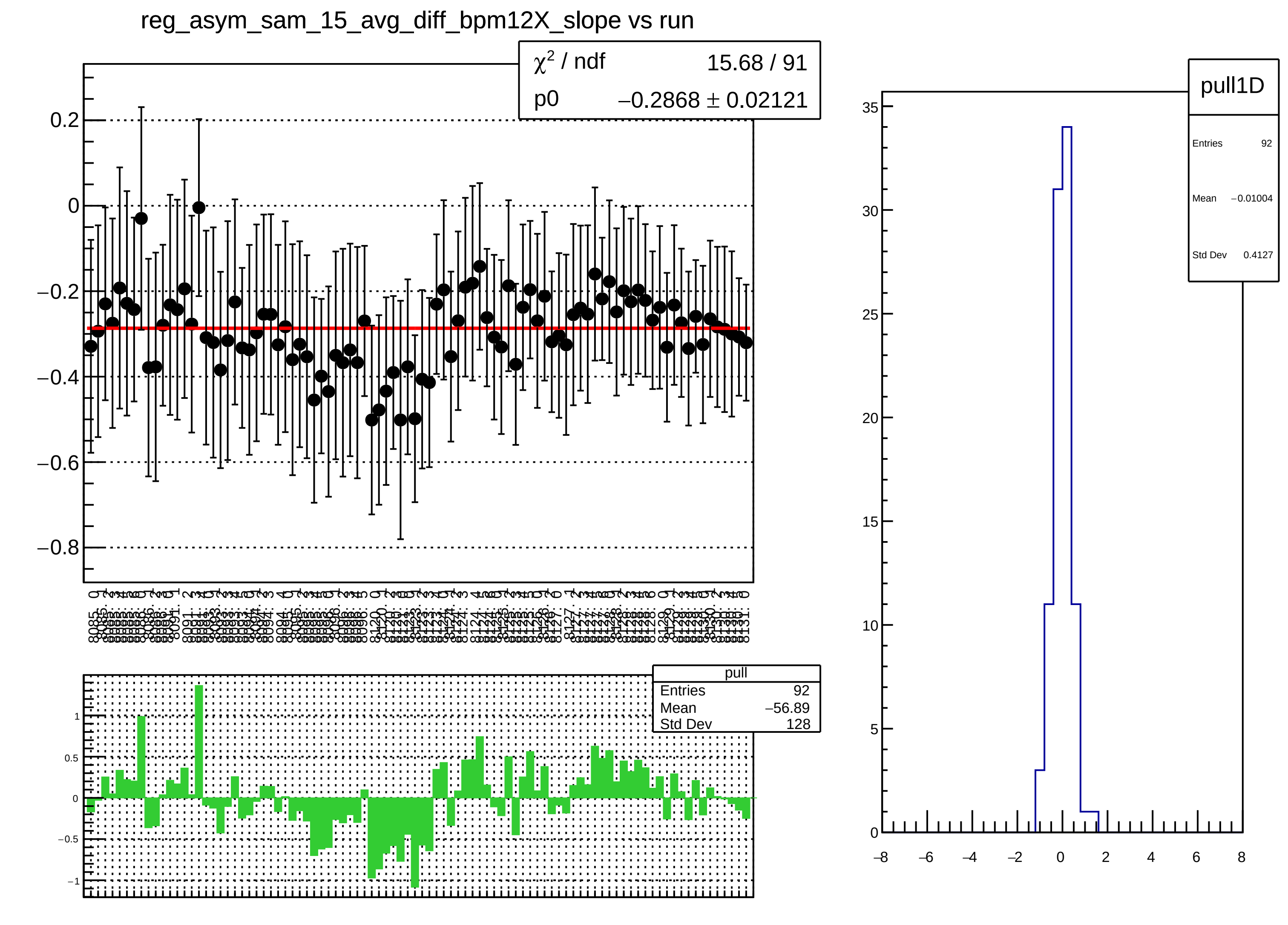


reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 31.14 / 91
p0 22.86 ± 0.5203
pull
Entries 92
Mean 15.84
Std Dev 89.28
pull1D
Entries 92
Mean 0.0135
Std Dev 0.5817

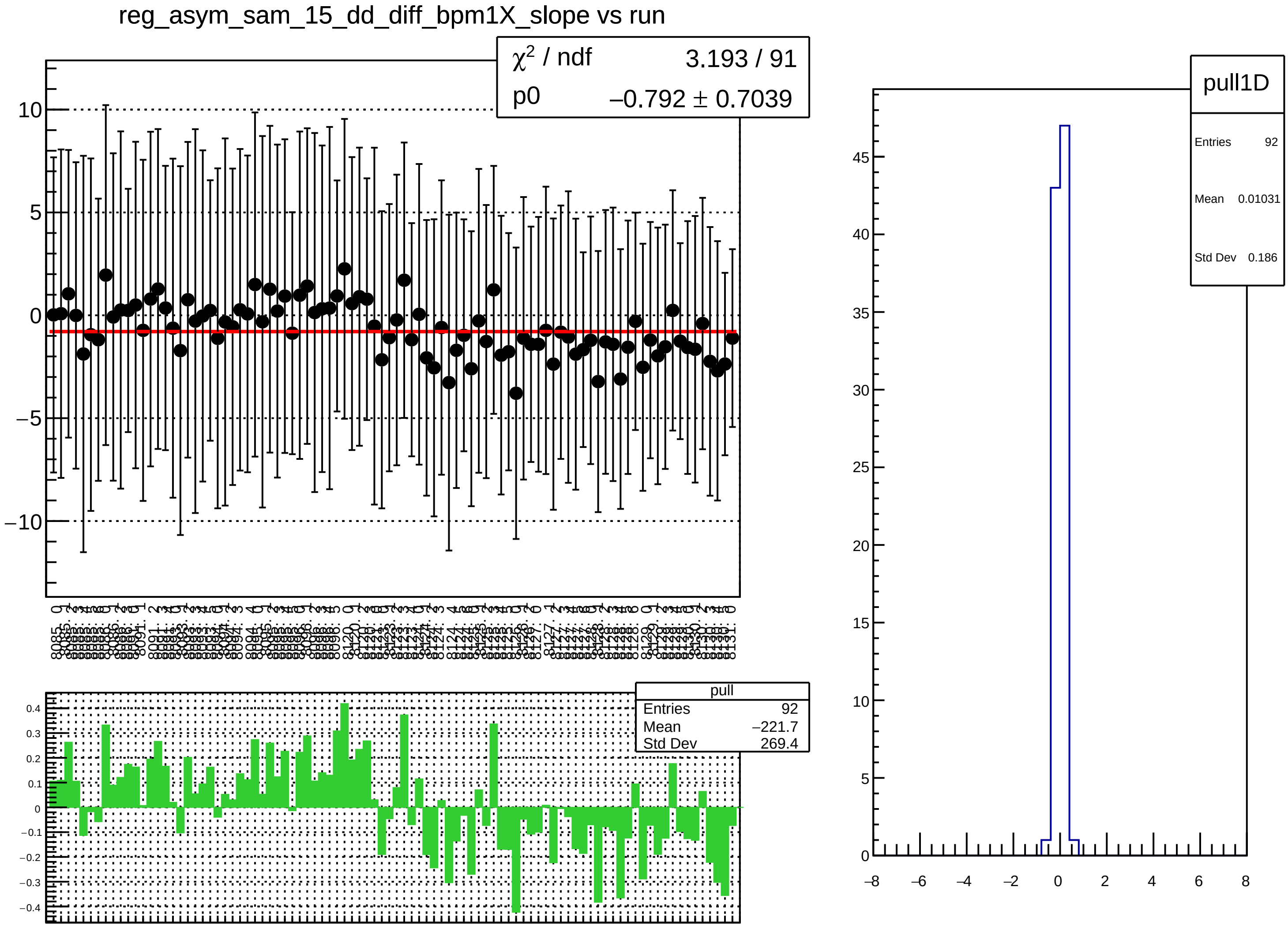

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ2 / ndf 6.435 / 91
p0 2.792 ± 0.3388
pull
Entries 92
Mean −209
Std Dev 253
pull1D
Entries 92
Mean −0.01016
Std Dev 0.2643



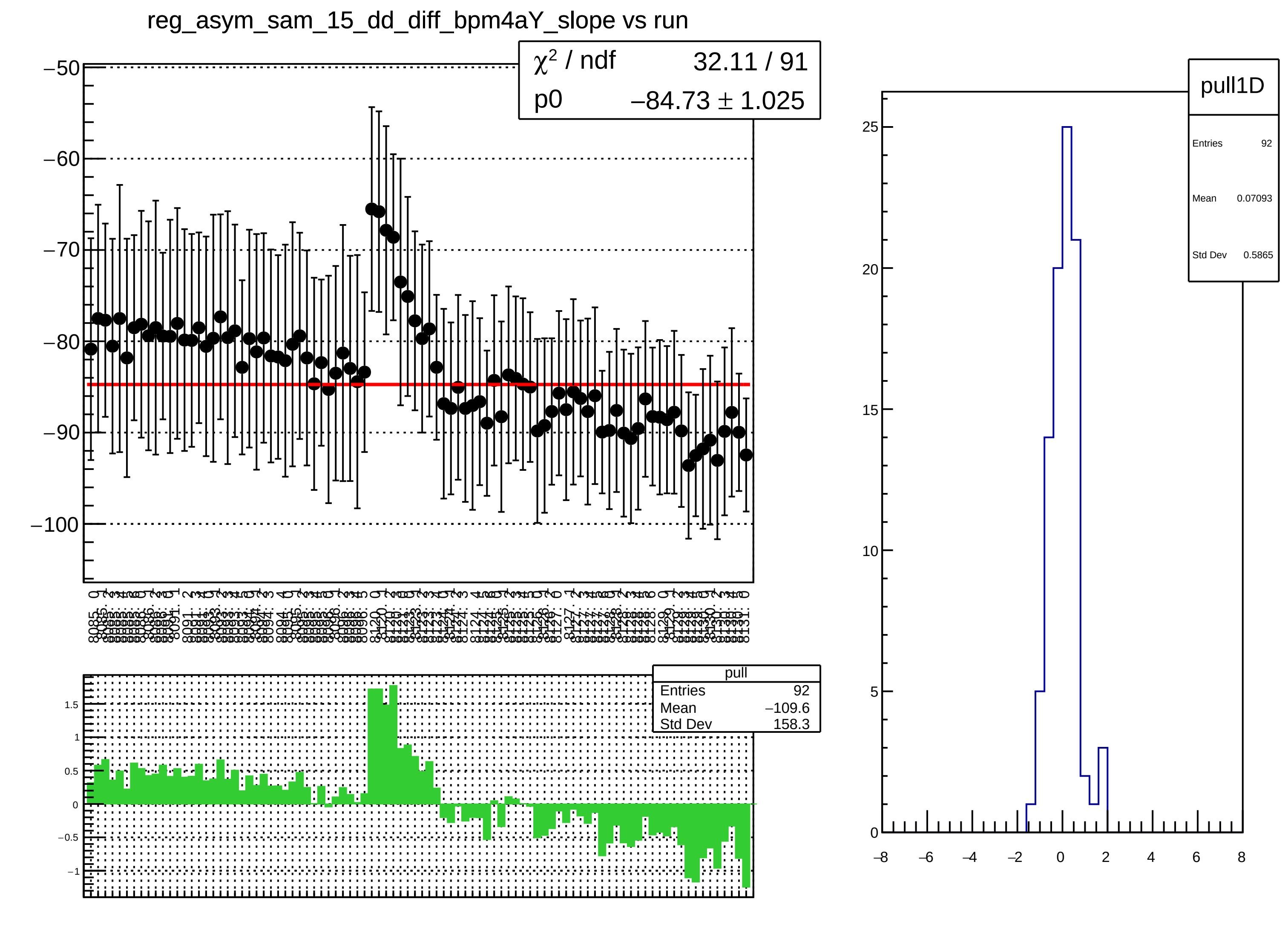
reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ2 / ndf 29.64 / 91
p0 30.9 ± 0.5559
pull
Entries 92
Mean −116.6
Std Dev 167.2
pull1D
Entries 92
Mean −0.02894
Std Dev 0.5668



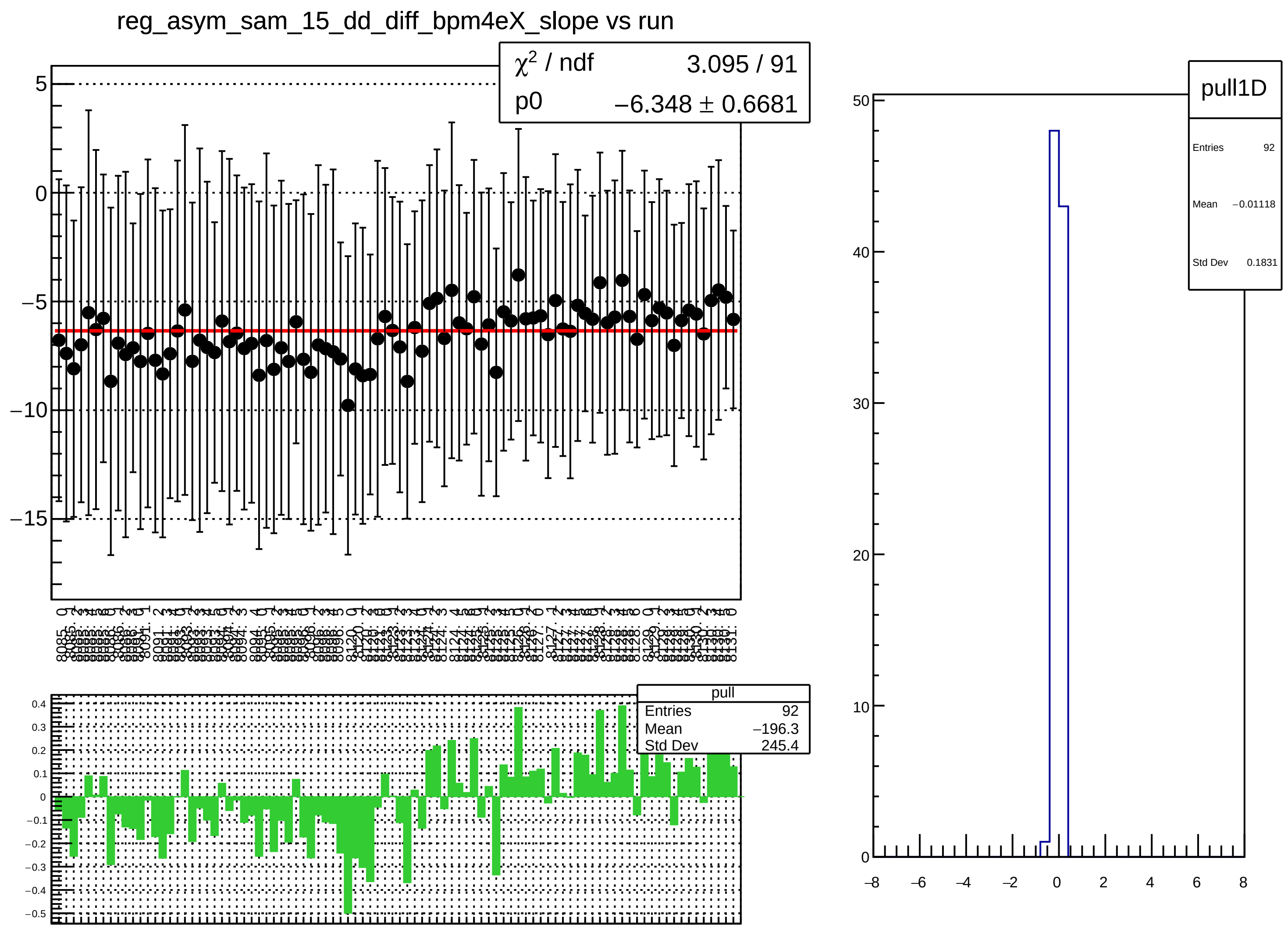
reg_asym_sam_15_avg_diff_bpm12X_slope vs run
χ^2 / ndf 15.68 / 91
p0 −0.2868 ± 0.02121
pull
Entries 92
Mean −56.89
Std Dev 128
pull1D
Entries 92
Mean −0.01004
Std Dev 0.4127



reg_asym_sam_15_dd_diff_bpm1X_slope vs run
χ^2 / ndf 3.193 / 91
p0 −0.792 ± 0.7039
pull
Entries 92
Mean −221.7
Std Dev 269.4
pull1D
Entries 92
Mean 0.01031
Std Dev 0.186

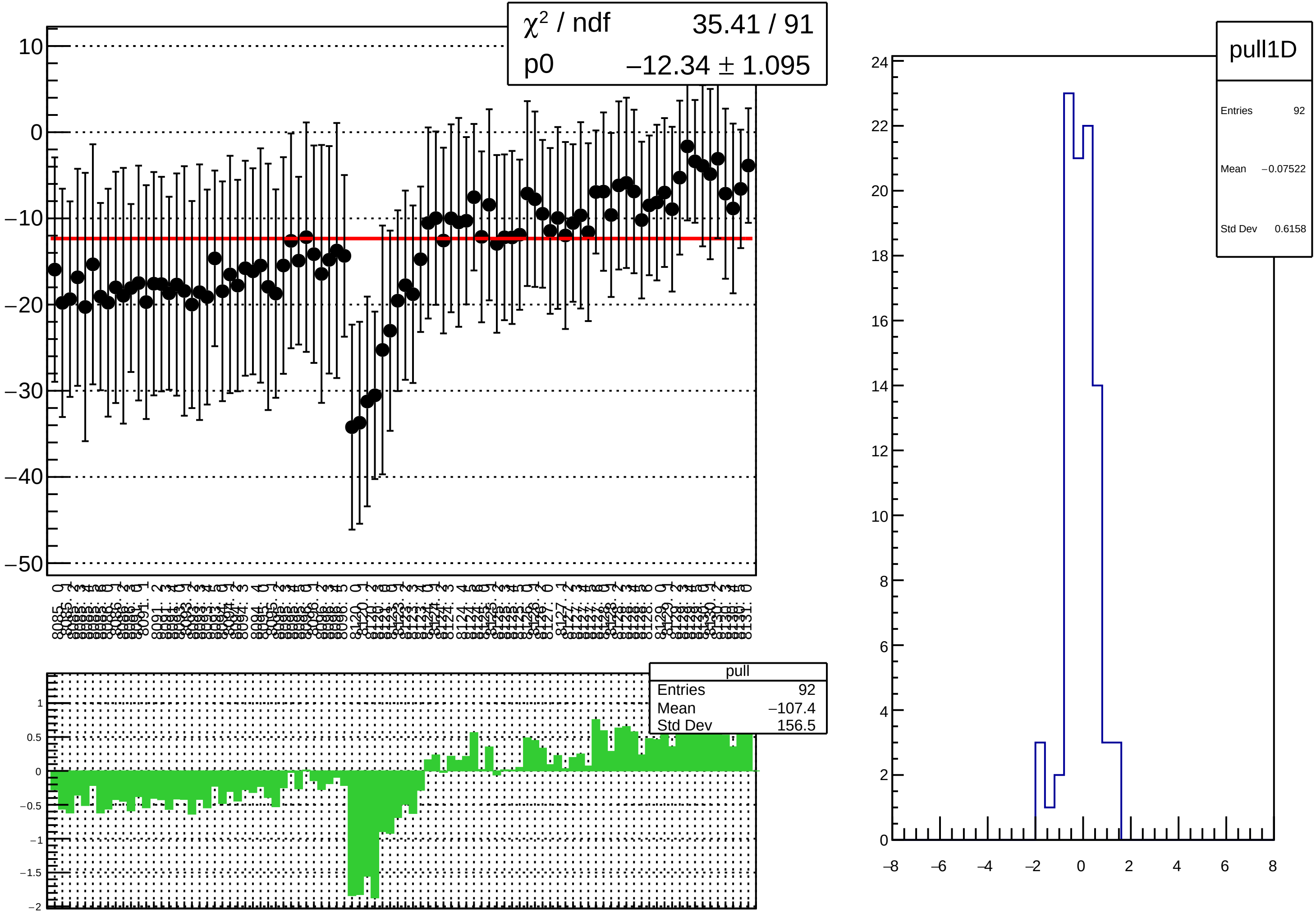


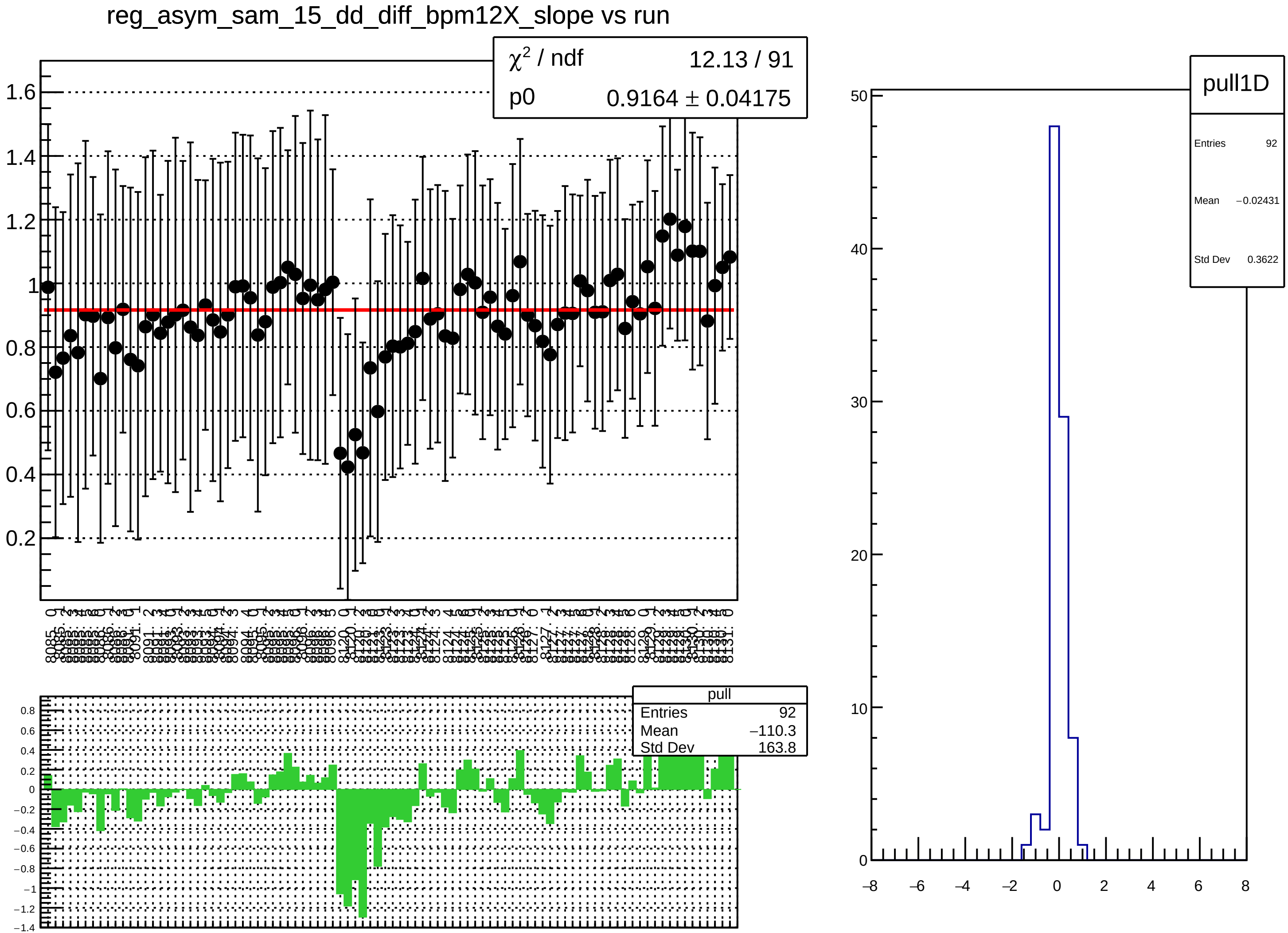
reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 32.11 / 91
p0 −84.73 ± 1.025
pull
Entries 92
Mean −109.6
Std Dev 158.3
pull1D
Entries 92
Mean 0.07093
Std Dev 0.5865



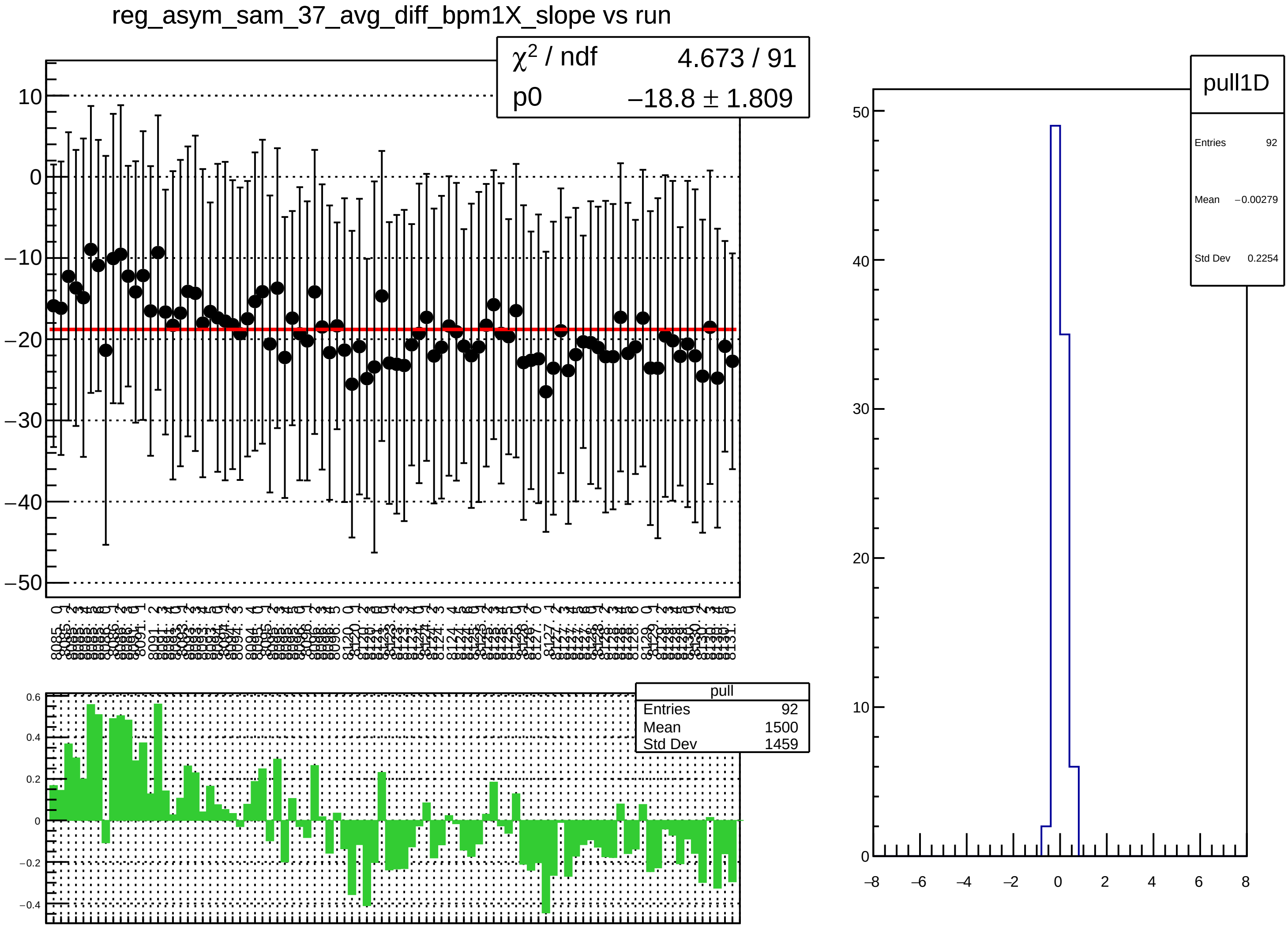
reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 3.095 / 91
p0 −6.348 ± 0.6681
pull
Entries 92
Mean −196.3
Std Dev 245.4
pull1D
Entries 92
Mean −0.01118
Std Dev 0.1831

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run

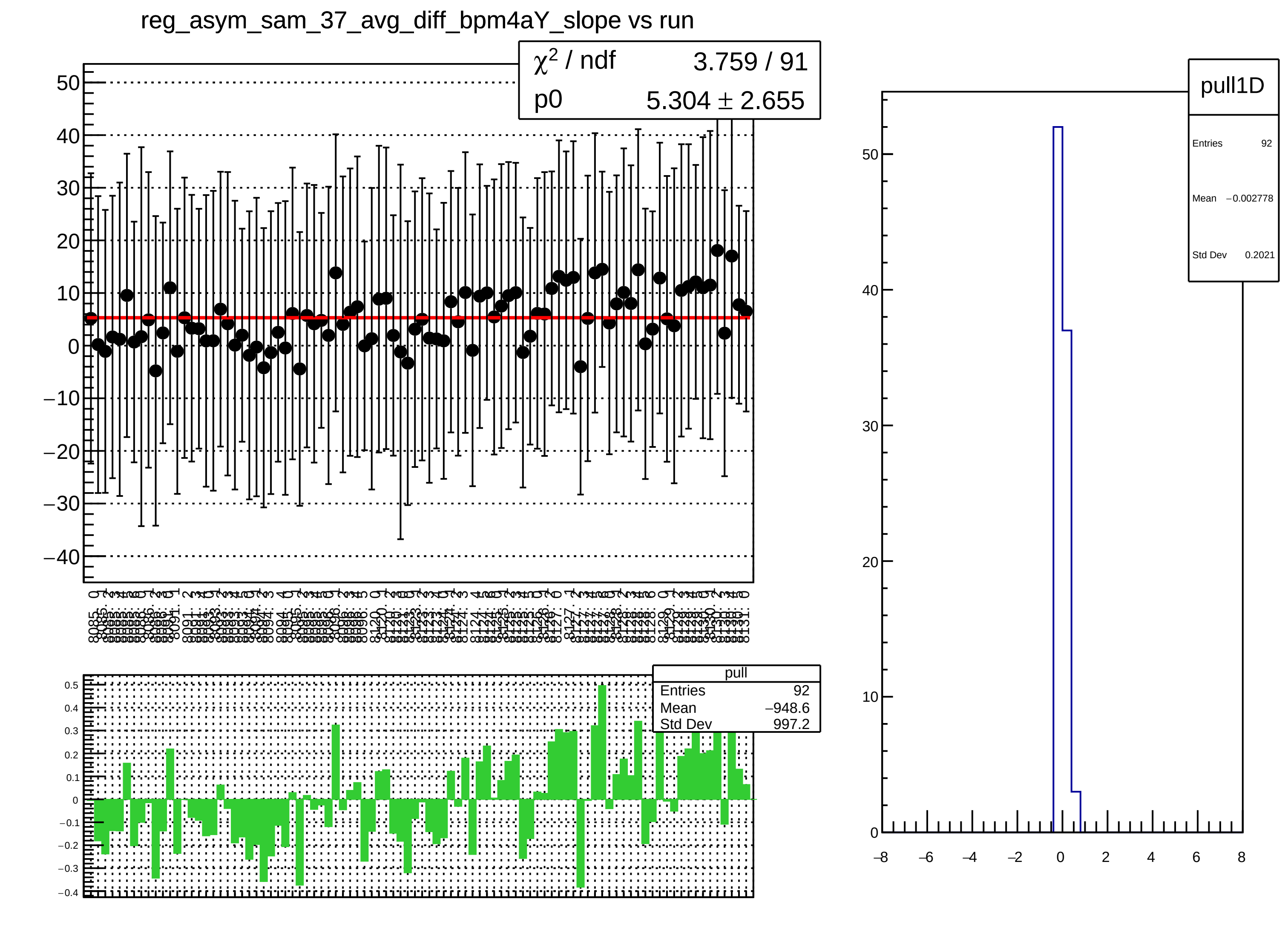




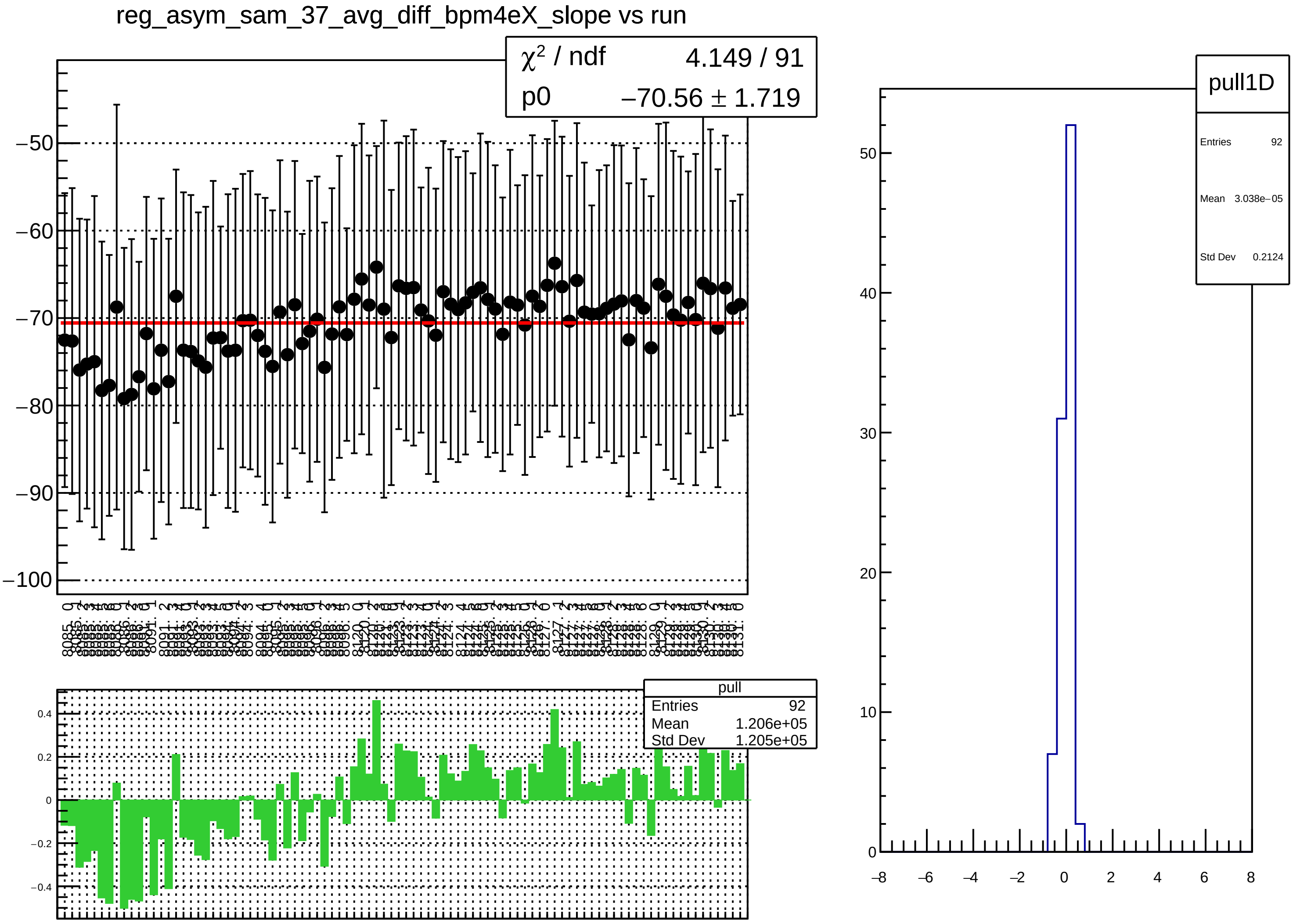
reg_asym_sam_15_dd_diff_bpm12X_slope vs run
χ^2 / ndf 12.13 / 91
p0 0.9164 ± 0.04175
pull
Entries 92
Mean −110.3
Std Dev 163.8
pull1D
Entries 92
Mean −0.02431
Std Dev 0.3622



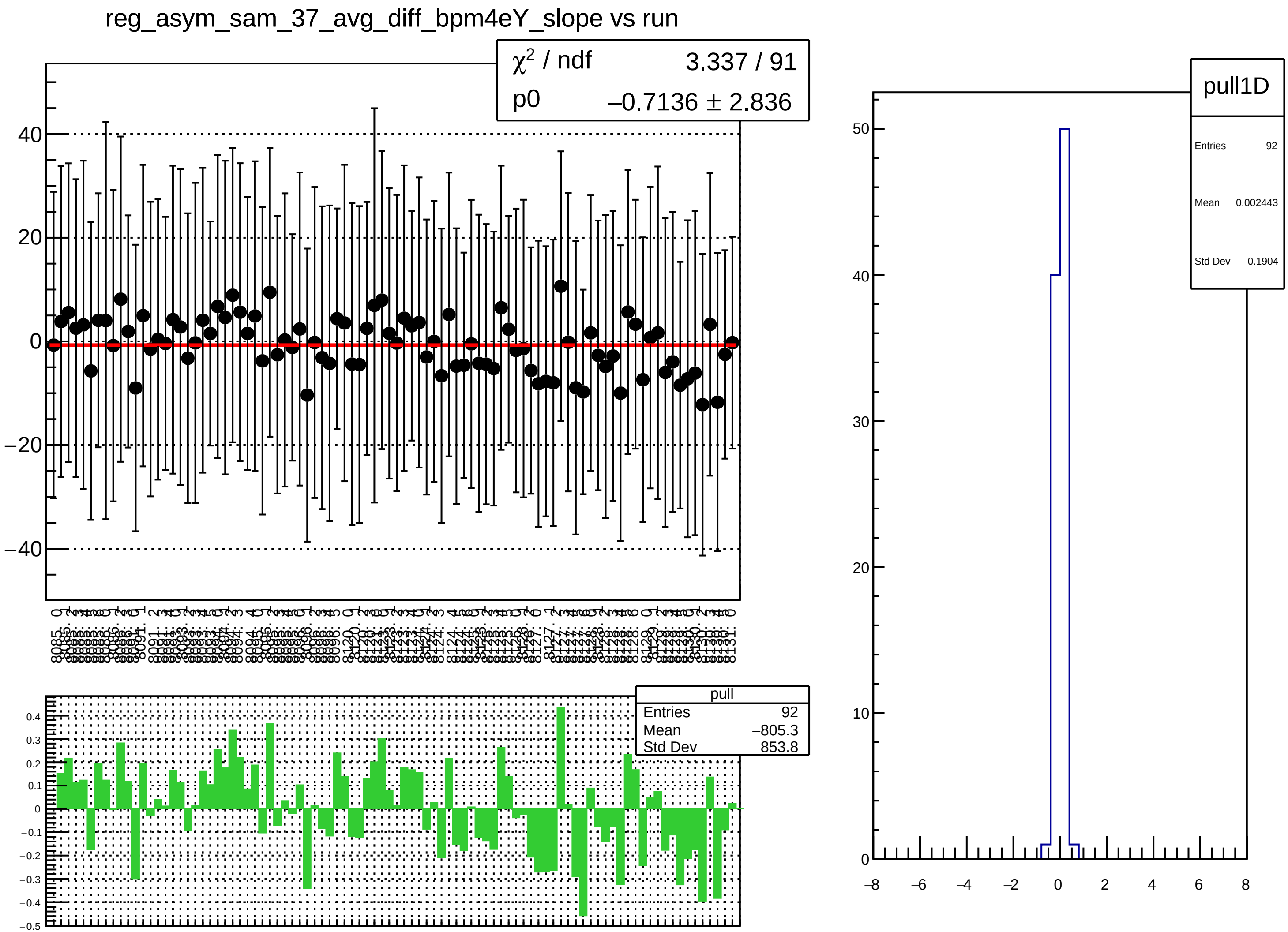
reg_asym_sam_37_avg_diff_bpm1X_slope vs run
χ^2 / ndf 4.673 / 91
p0 −18.8 ± 1.809
10
0
−10
−20
−30
−40
−50
pull
Entries 92
Mean 1500
Std Dev 1459
0.6
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.00279
Std Dev 0.2254
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

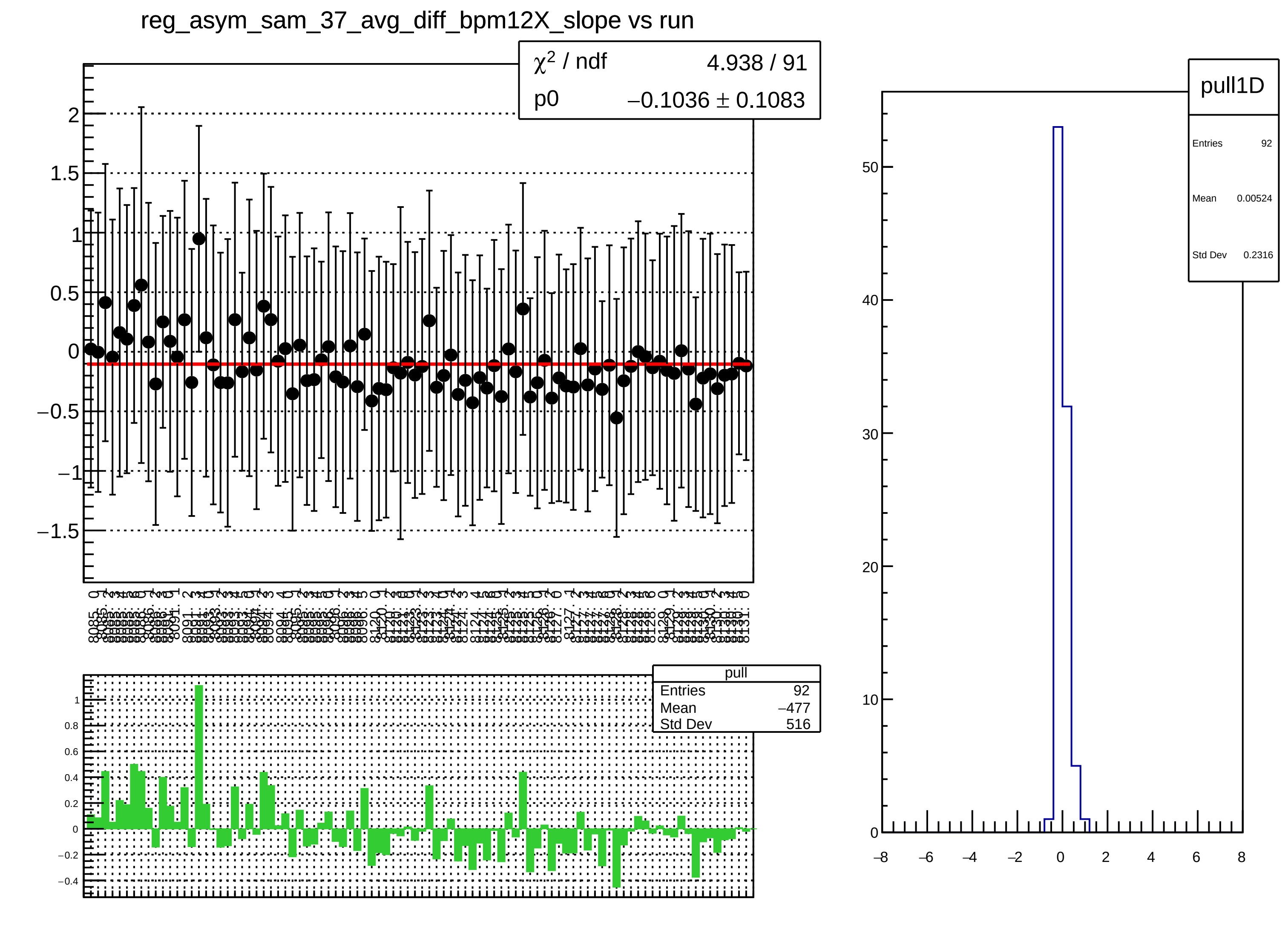


reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 3.759 / 91
p0 5.304 ± 2.655
pull
Entries 92
Mean −948.6
Std Dev 997.2
pull1D
Entries 92
Mean −0.002778
Std Dev 0.2021

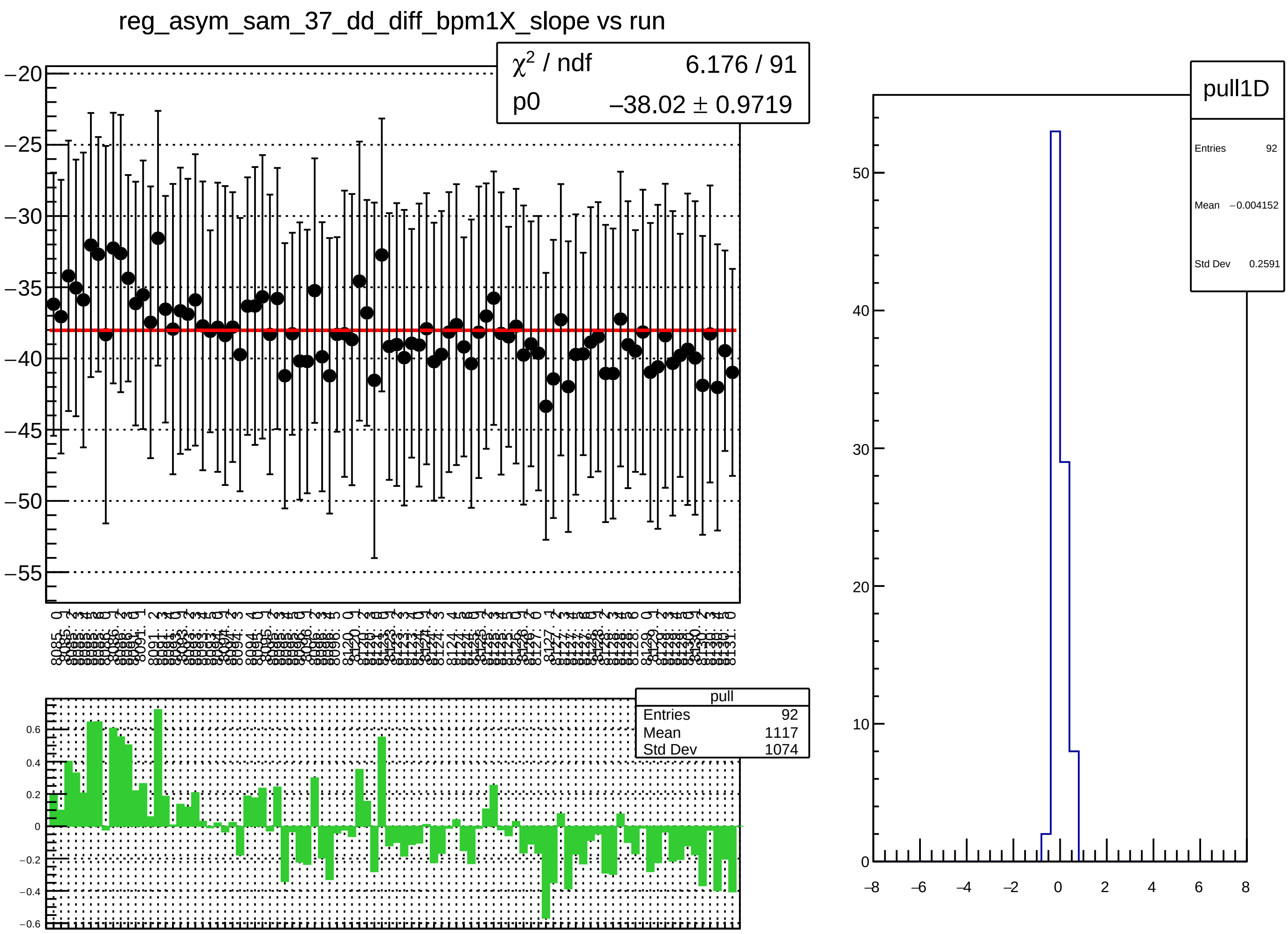


reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 4.149 / 91
p0 −70.56 ± 1.719
−50
−60
−70
−80
−90
−100
pull
Entries 92
Mean 1.206e+05
Std Dev 1.205e+05
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 3.038e−05
Std Dev 0.2124
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

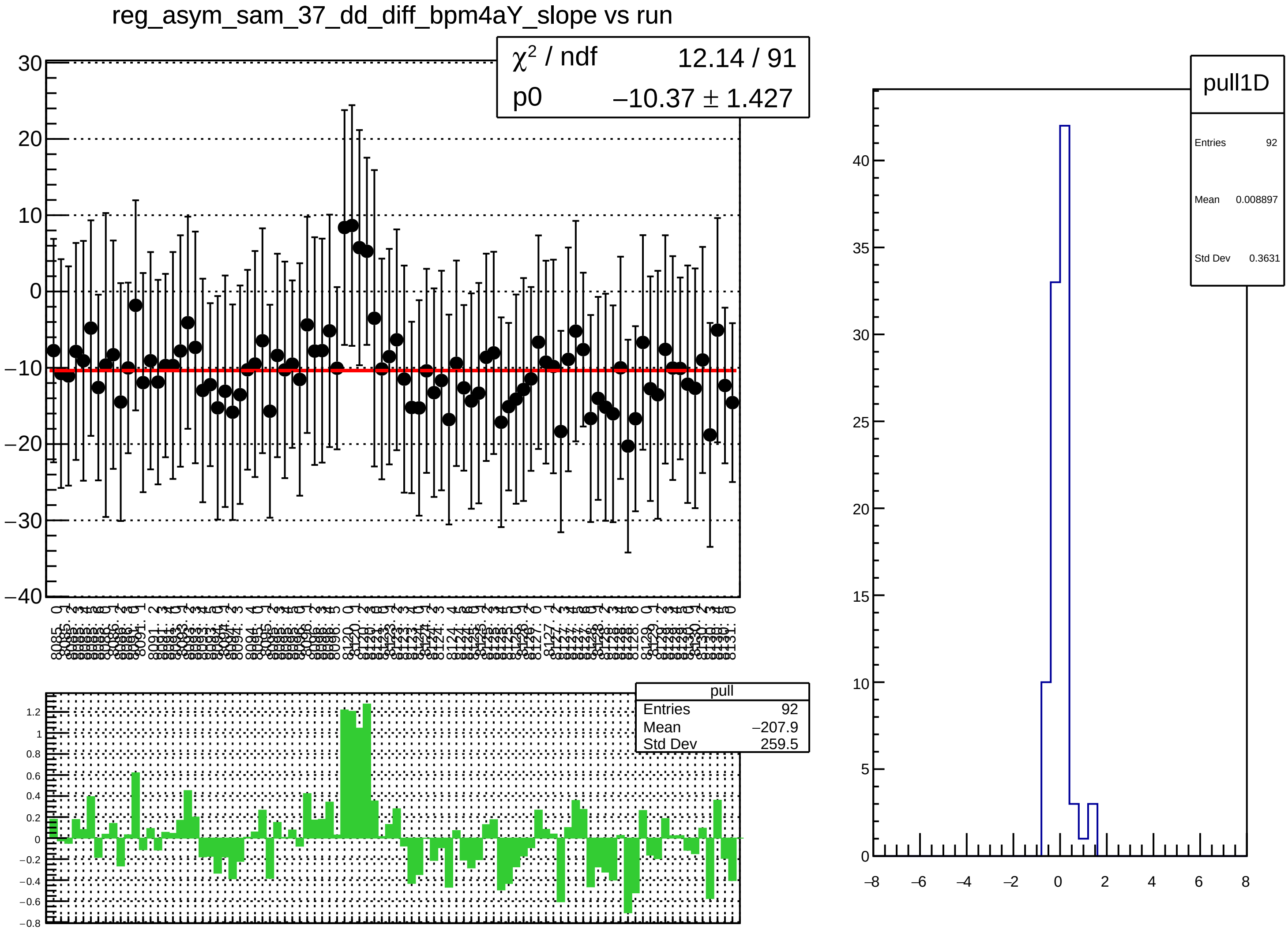

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ2 / ndf 3.337 / 91
p0 −0.7136 ± 2.836
pull
Entries 92
Mean −805.3
Std Dev 853.8
pull1D
Entries 92
Mean 0.002443
Std Dev 0.1904



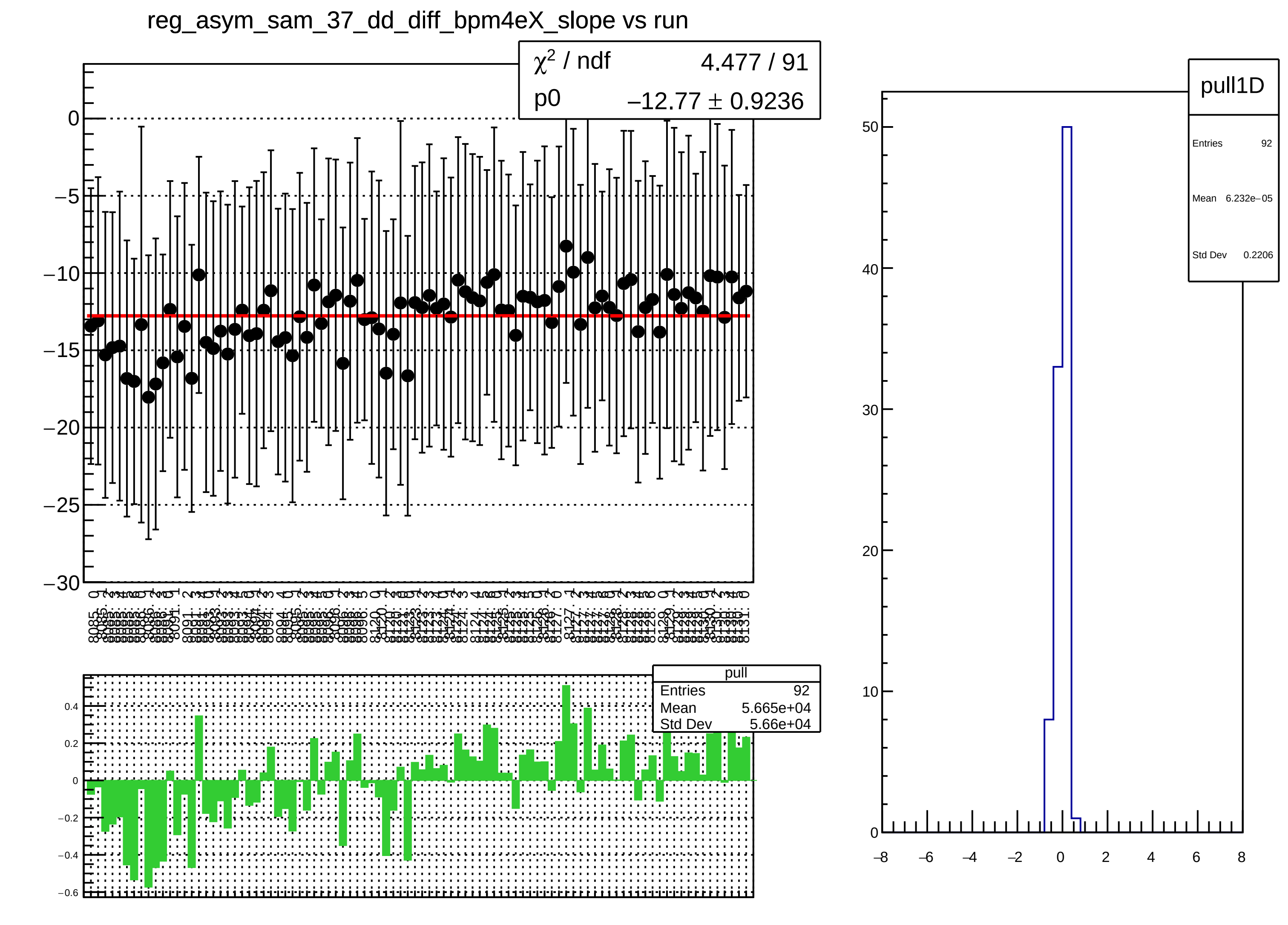
reg_asym_sam_37_avg_diff_bpm12X_slope vs run
χ^2 / ndf 4.938 / 91
p0 −0.1036 ± 0.1083
pull
Entries 92
Mean −477
Std Dev 516
pull1D
Entries 92
Mean 0.00524
Std Dev 0.2316

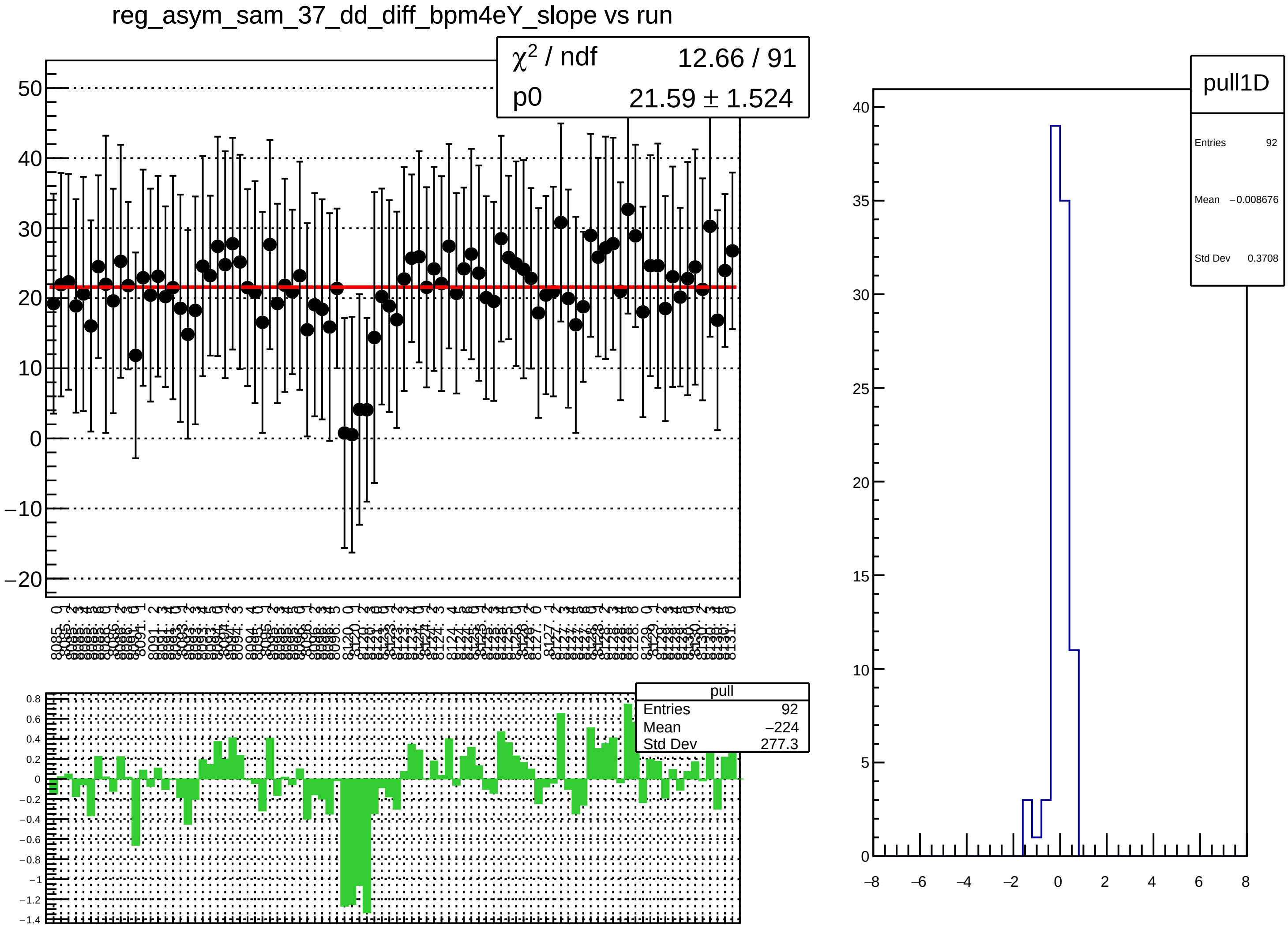


reg_asym_sam_37_dd_diff_bpm1X_slope vs run
χ^2 / ndf 6.176 / 91
p0 −38.02 ± 0.9719
pull
Entries 92
Mean 1117
Std Dev 1074
pull1D
Entries 92
Mean −0.004152
Std Dev 0.2591

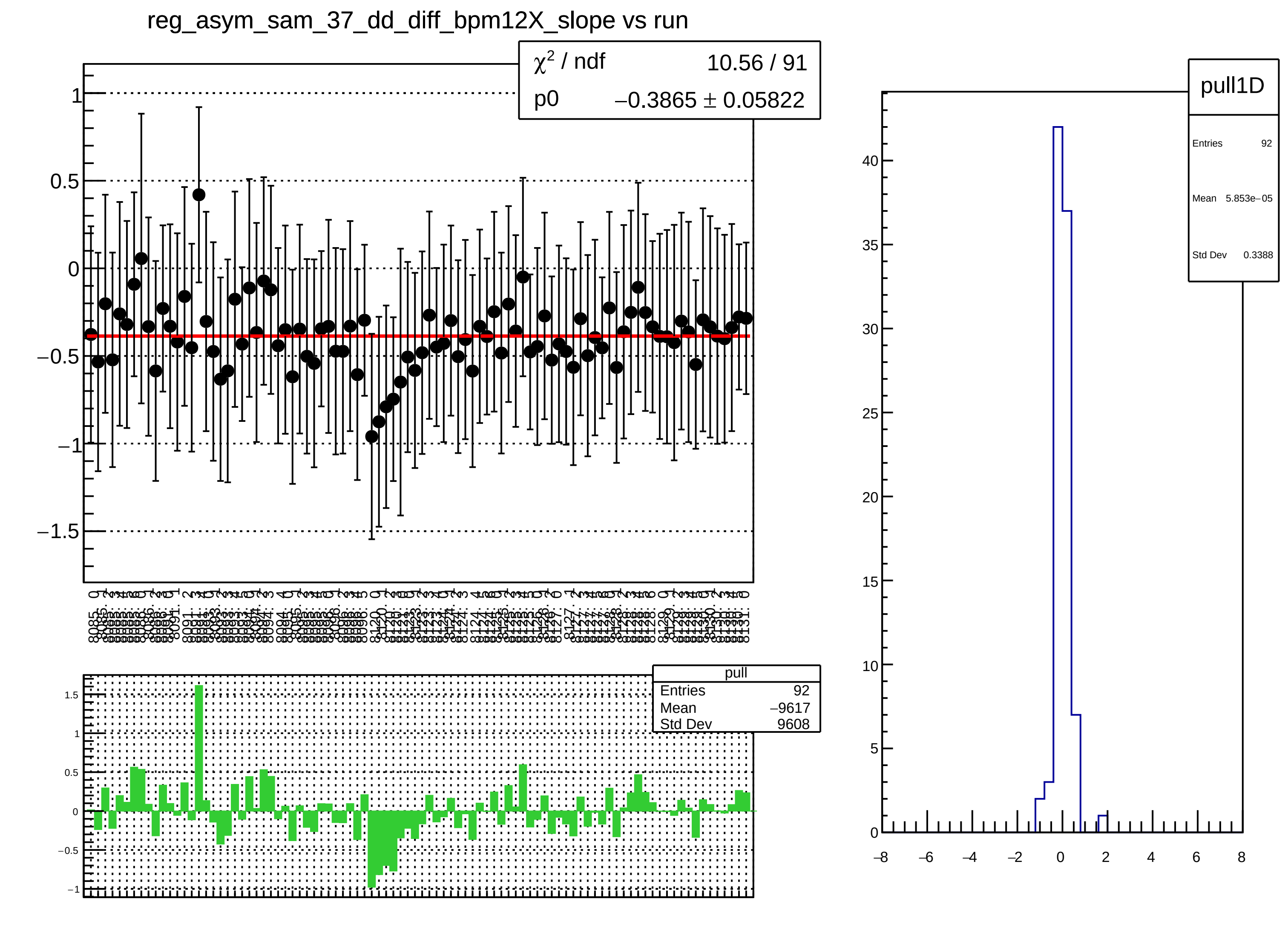


reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 12.14 / 91
p0 −10.37 ± 1.427
pull
Entries 92
Mean −207.9
Std Dev 259.5
pull1D
Entries 92
Mean 0.008897
Std Dev 0.3631

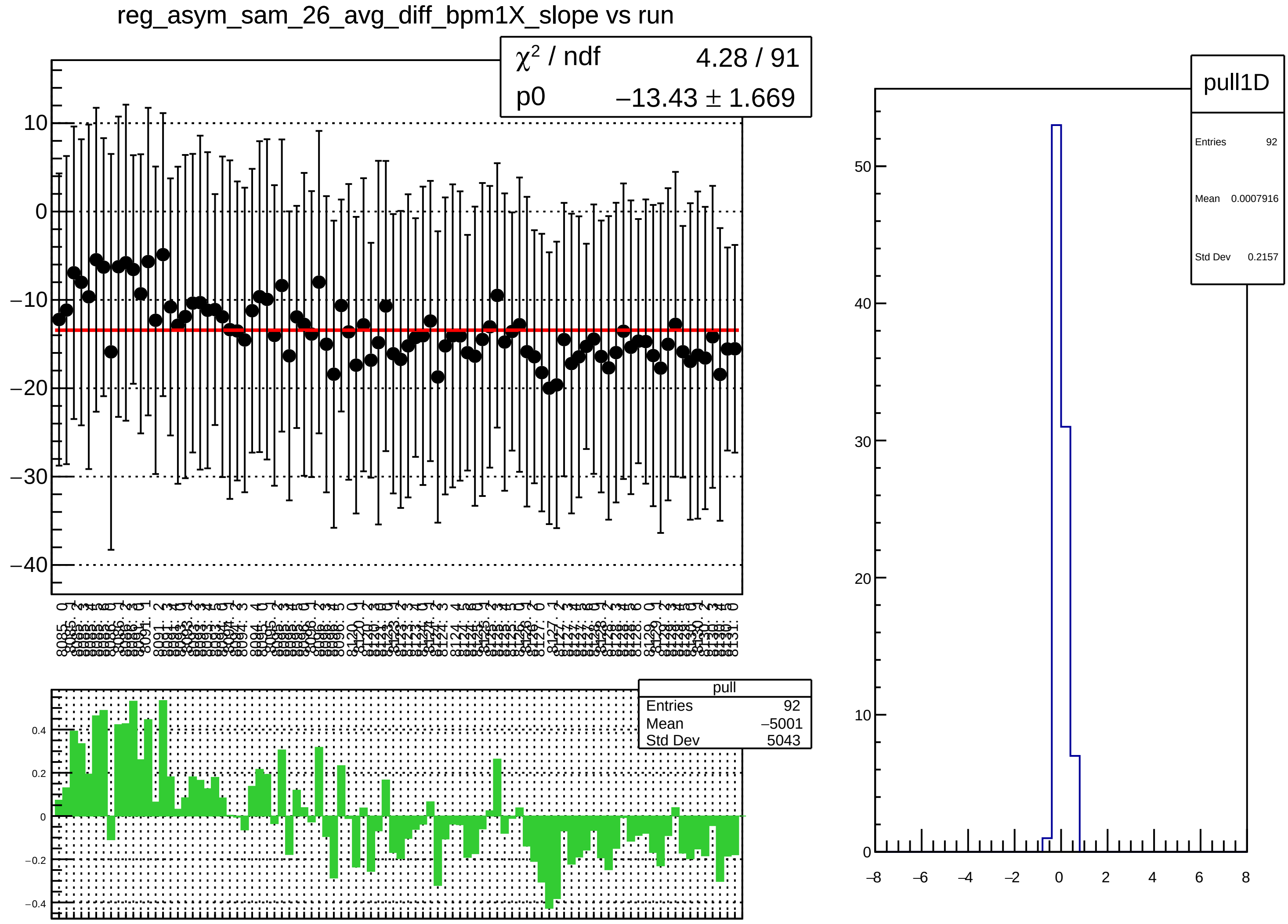

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 4.477 / 91
p0 −12.77 ± 0.9236
pull
Entries 92
Mean 5.665e+04
Std Dev 5.66e+04
pull1D
Entries 92
Mean 6.232e−05
Std Dev 0.2206



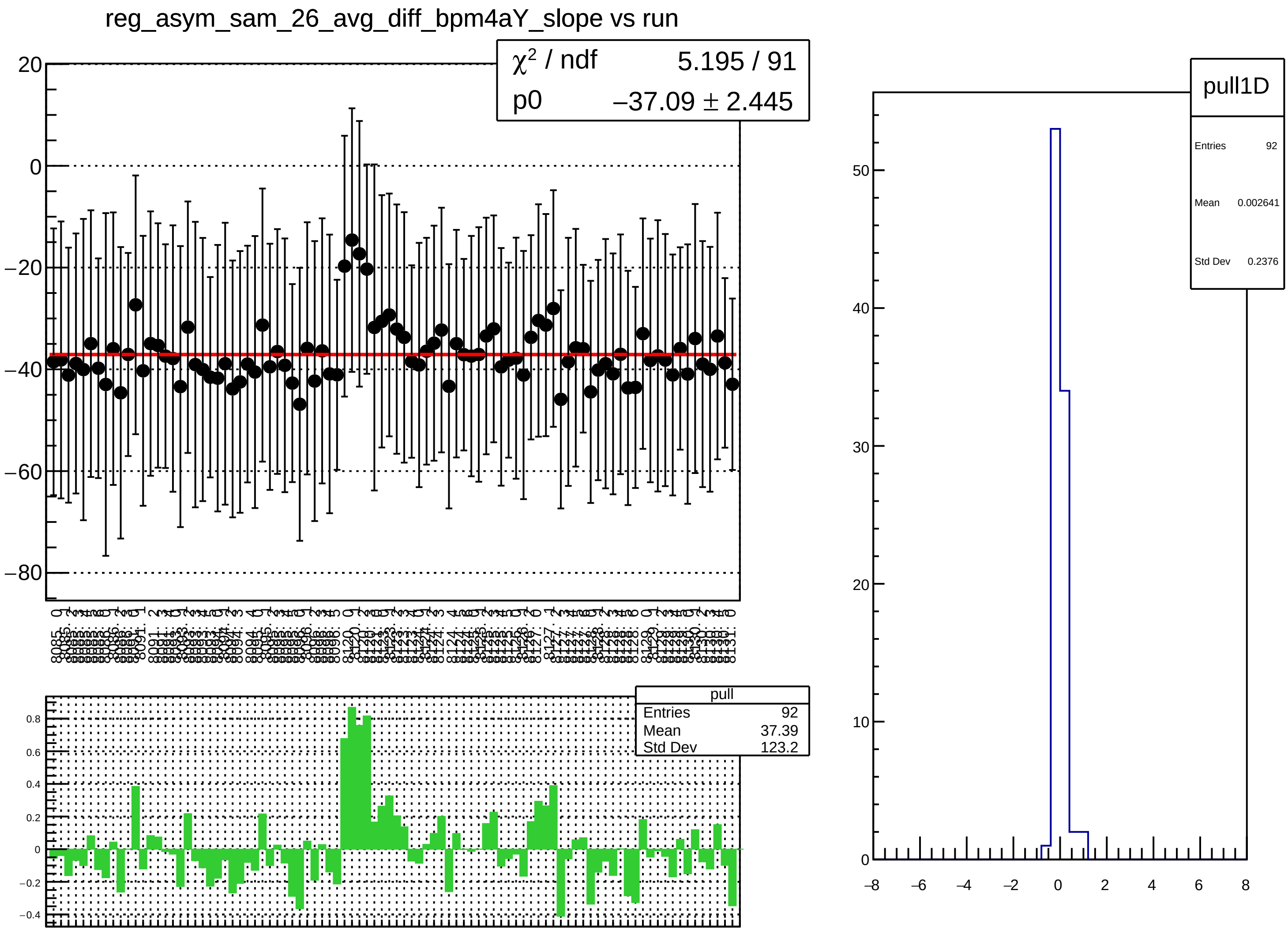
reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 12.66 / 91
p0 21.59 ± 1.524
pull
Entries 92
Mean −224
Std Dev 277.3
pull1D
Entries 92
Mean −0.008676
Std Dev 0.3708



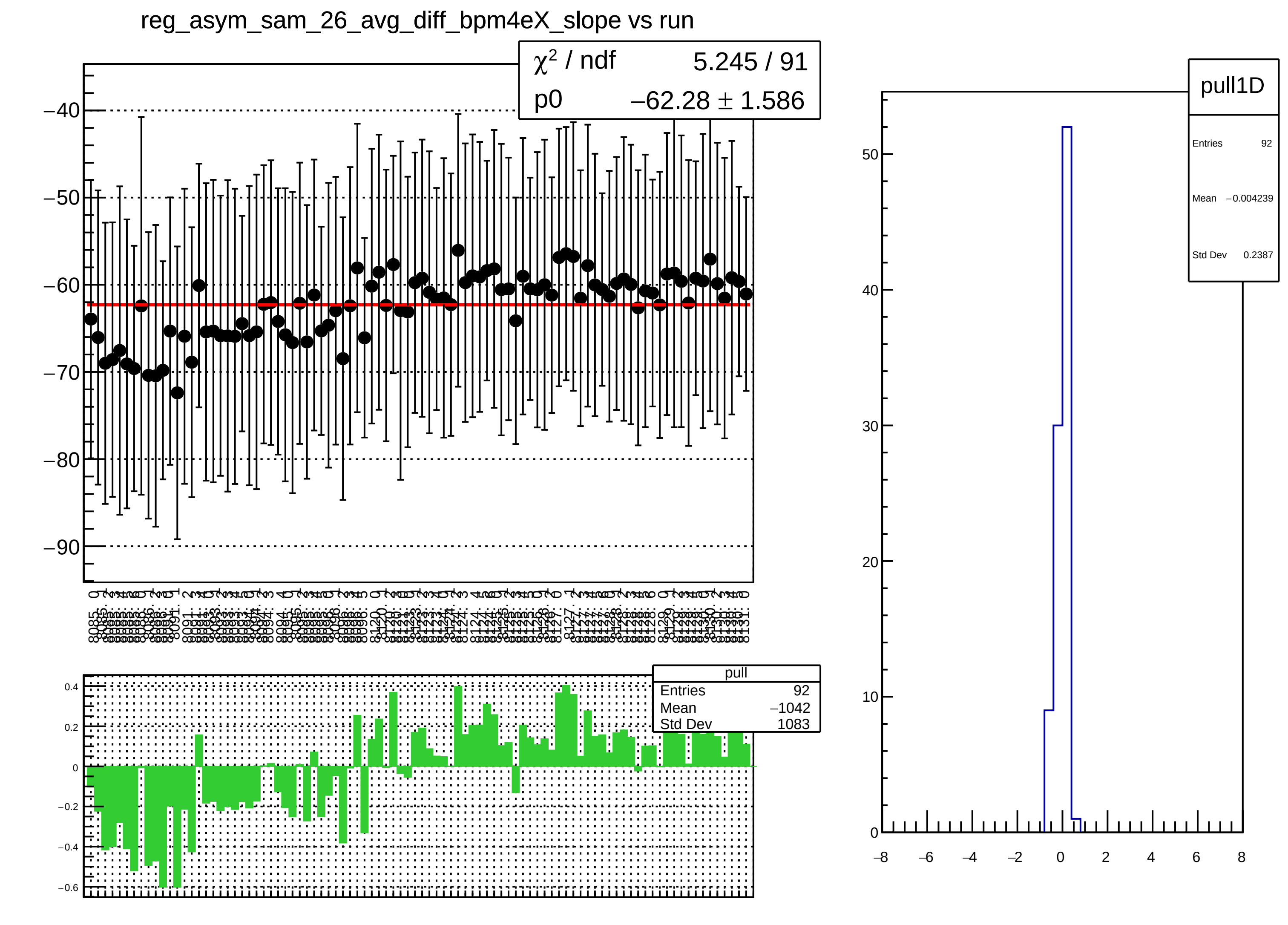
reg_asym_sam_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 10.56 / 91
p0 −0.3865 ± 0.05822
pull
Entries 92
Mean −9617
Std Dev 9608
pull1D
Entries 92
Mean 5.853e−05
Std Dev 0.3388



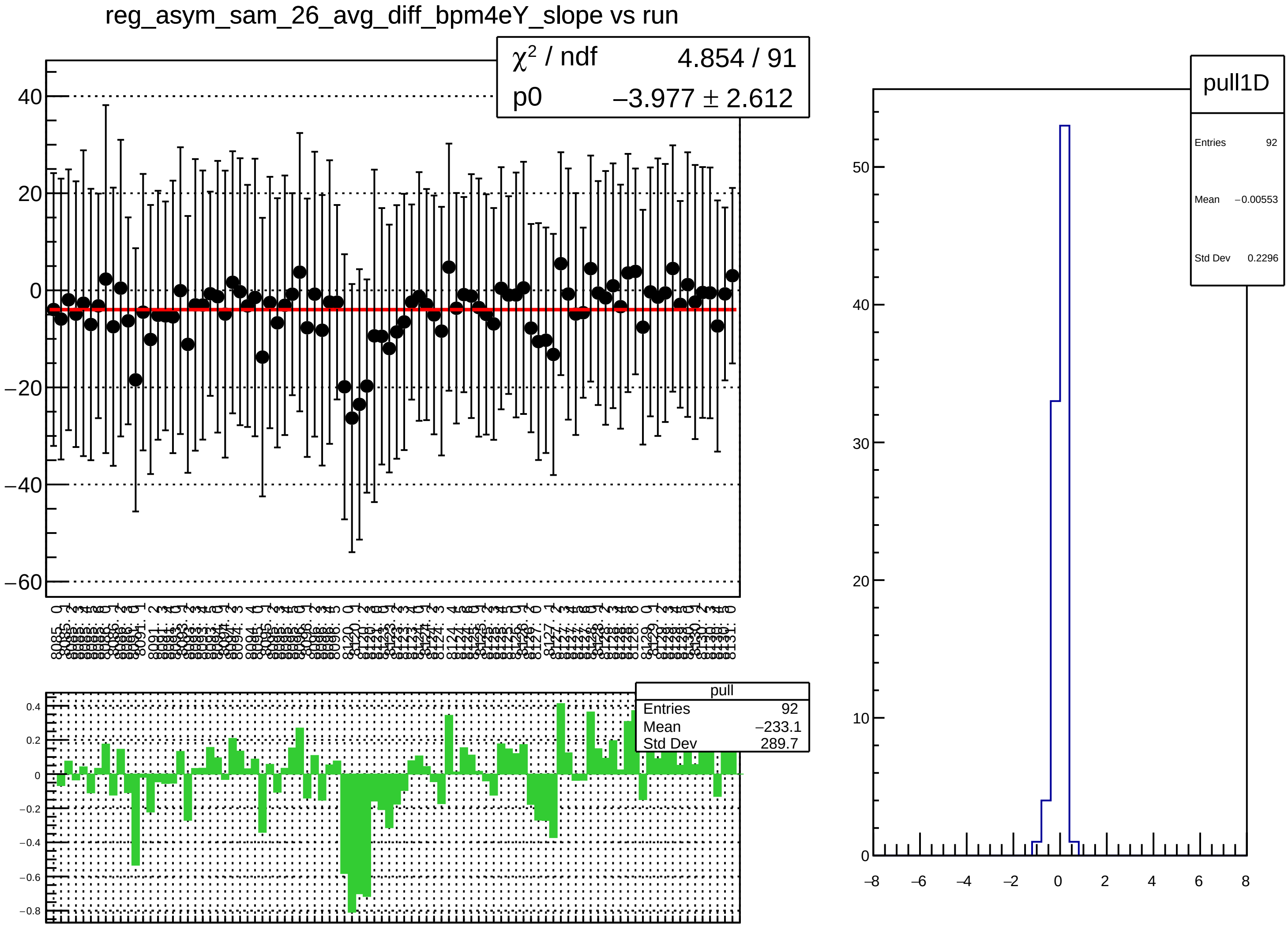
reg_asym_sam_26_avg_diff_bpm1X_slope vs run
χ2 / ndf 4.28 / 91
p0 −13.43 ± 1.669
pull
Entries 92
Mean −5001
Std Dev 5043
pull1D
Entries 92
Mean 0.0007916
Std Dev 0.2157



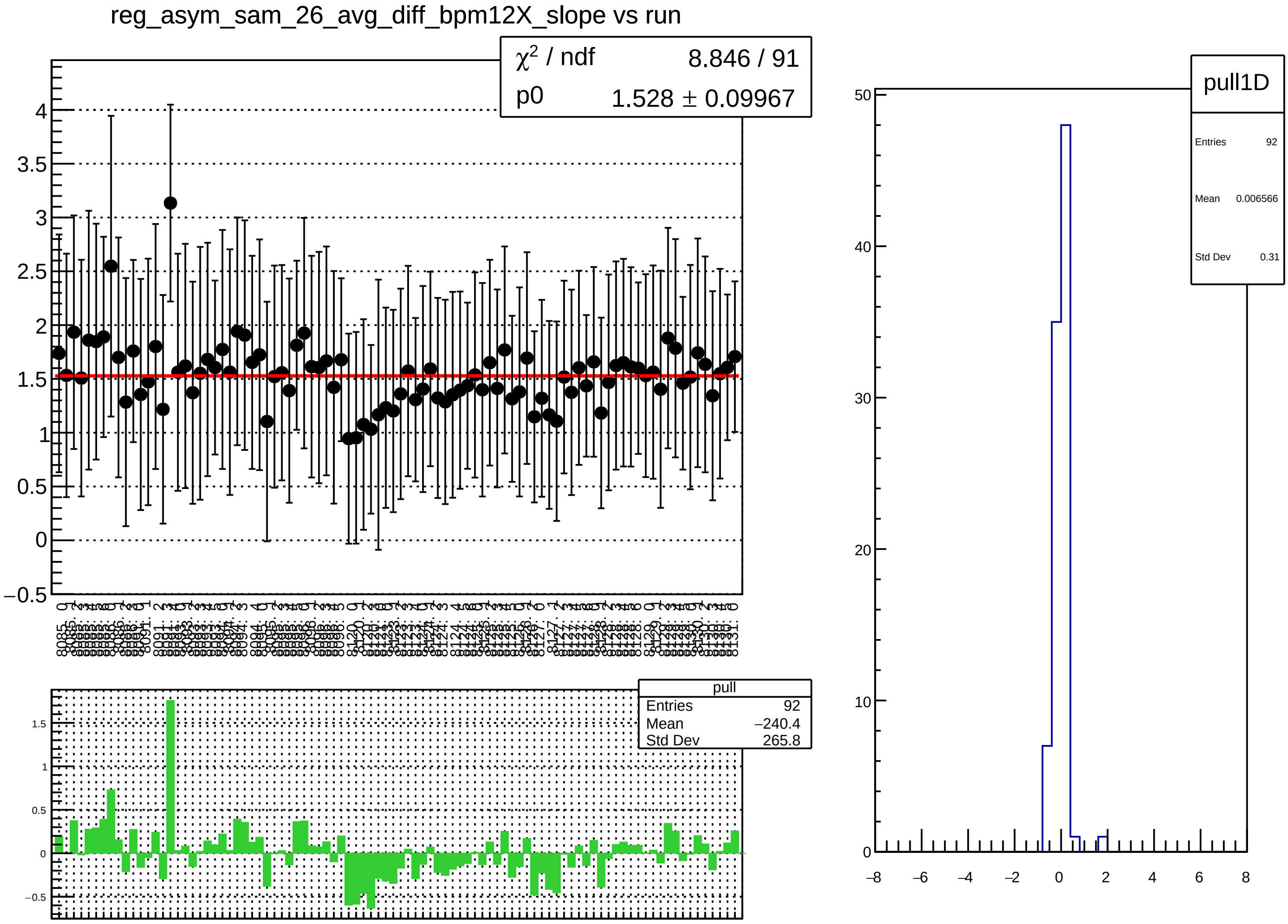
reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.195 / 91
p0 −37.09 ± 2.445
pull
Entries 92
Mean 37.39
Std Dev 123.2
pull1D
Entries 92
Mean 0.002641
Std Dev 0.2376



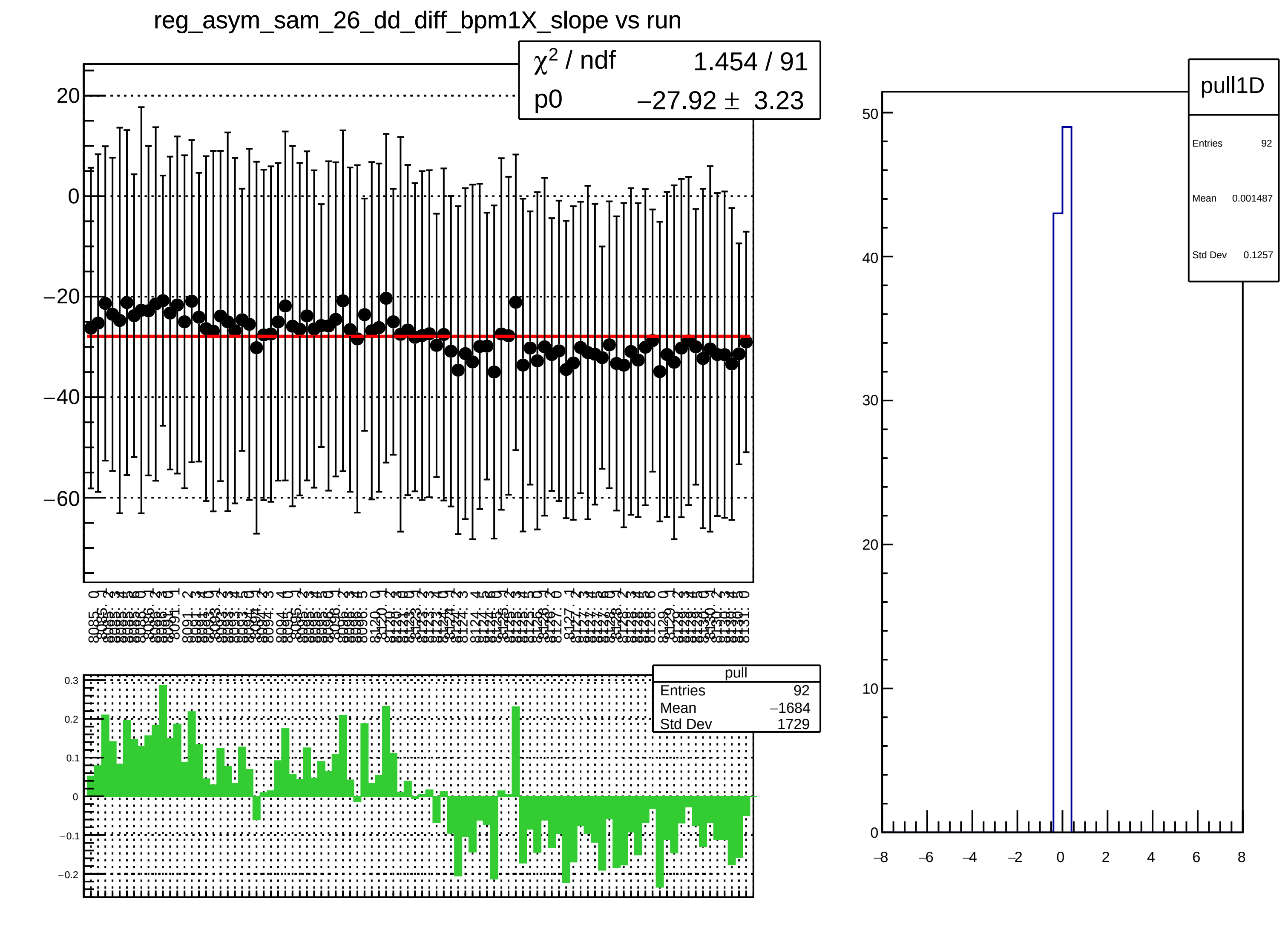
reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 5.245 / 91
p0 −62.28 ± 1.586
pull
Entries 92
Mean −1042
Std Dev 1083
pull1D
Entries 92
Mean −0.004239
Std Dev 0.2387



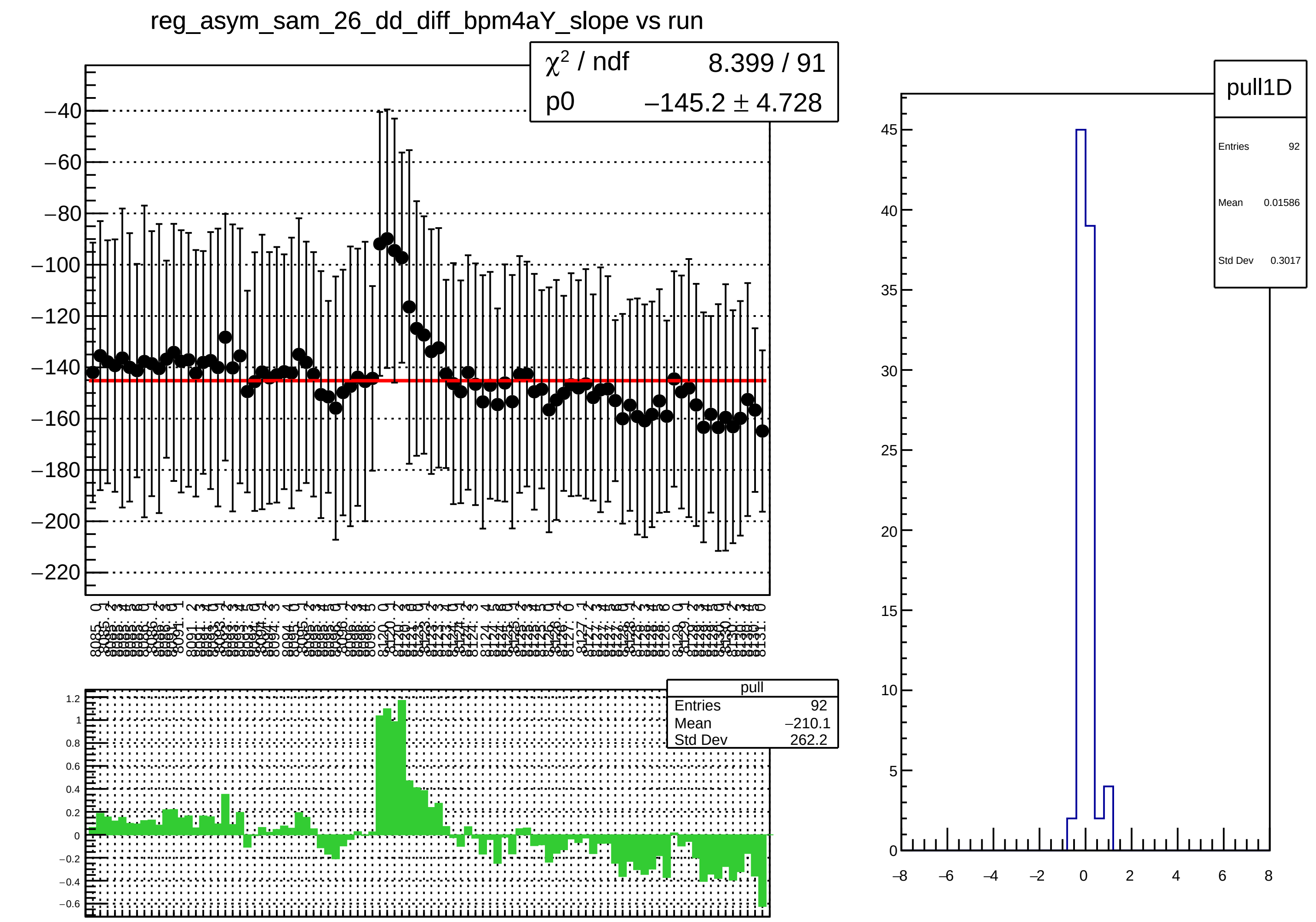
reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 4.854 / 91
p0 −3.977 ± 2.612
pull
Entries 92
Mean −233.1
Std Dev 289.7
pull1D
Entries 92
Mean −0.00553
Std Dev 0.2296



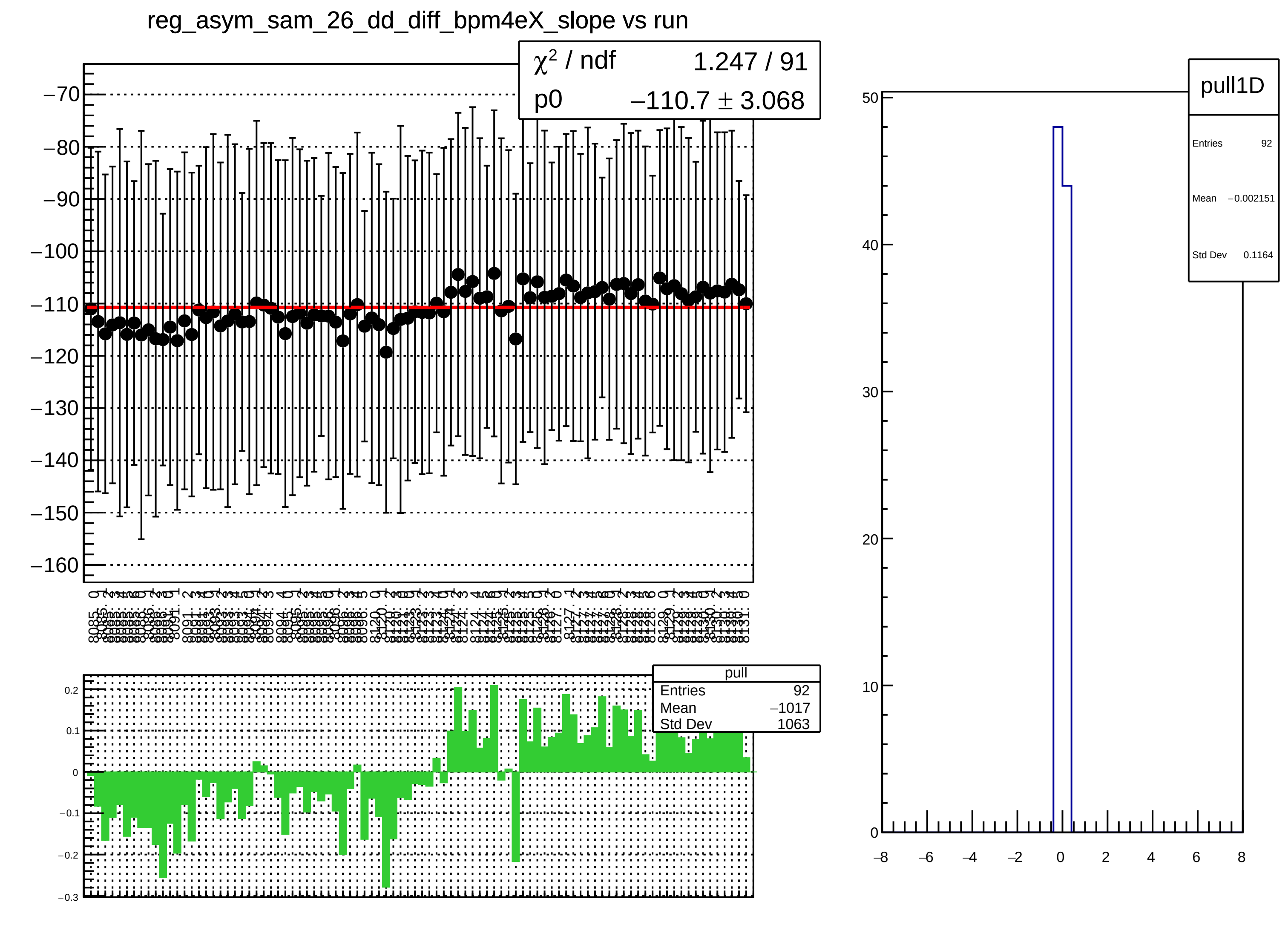
reg_asym_sam_26_avg_diff_bpm12X_slope vs run
χ2 / ndf 8.846 / 91
p0 1.528 ± 0.09967
pull
Entries 92
Mean −240.4
Std Dev 265.8
pull1D
Entries 92
Mean 0.006566
Std Dev 0.31

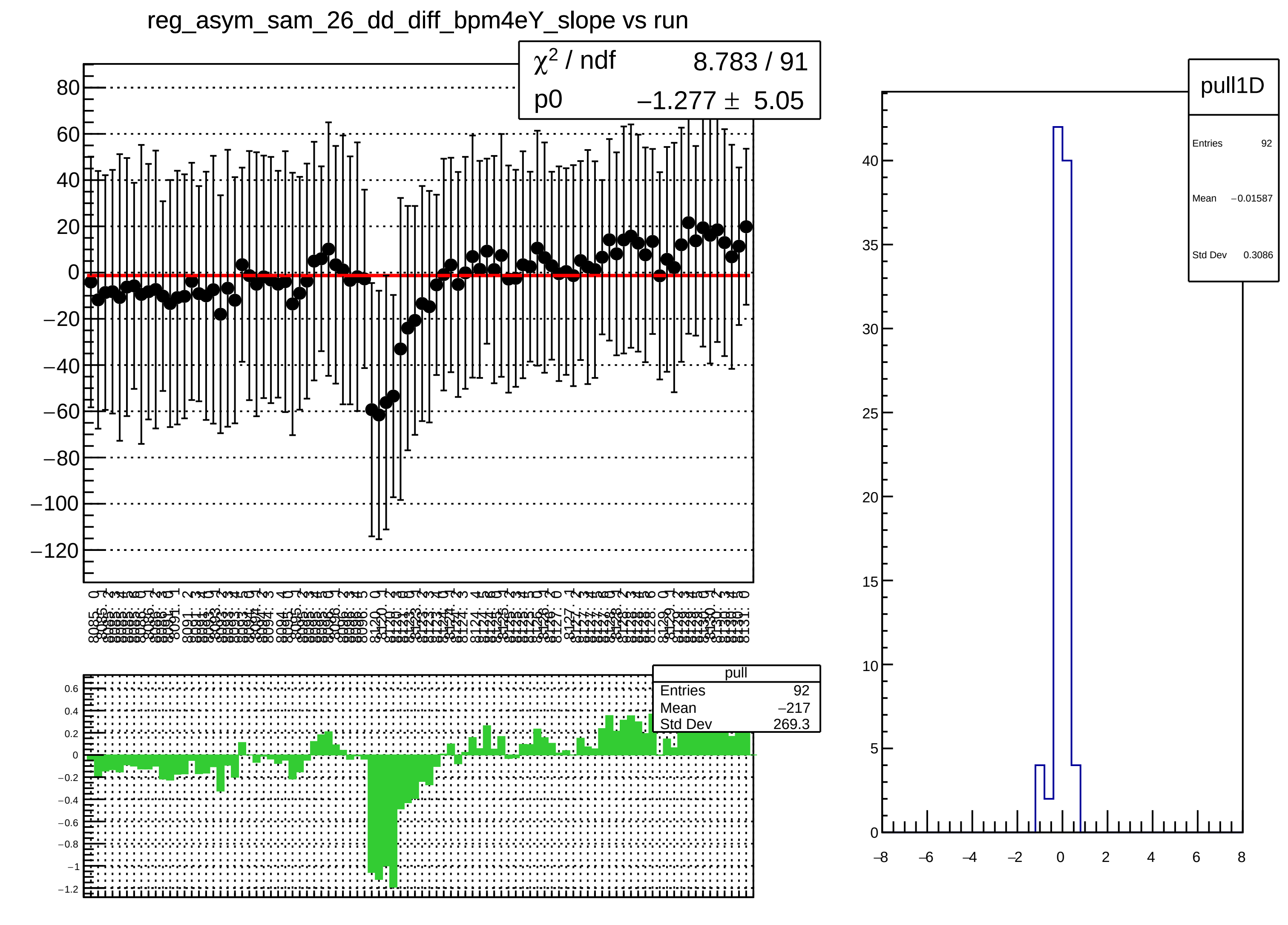


reg_asym_sam_26_dd_diff_bpm1X_slope vs run
χ^2 / ndf 1.454 / 91
p0 −27.92 ± 3.23
pull
Entries 92
Mean −1684
Std Dev 1729
pull1D
Entries 92
Mean 0.001487
Std Dev 0.1257

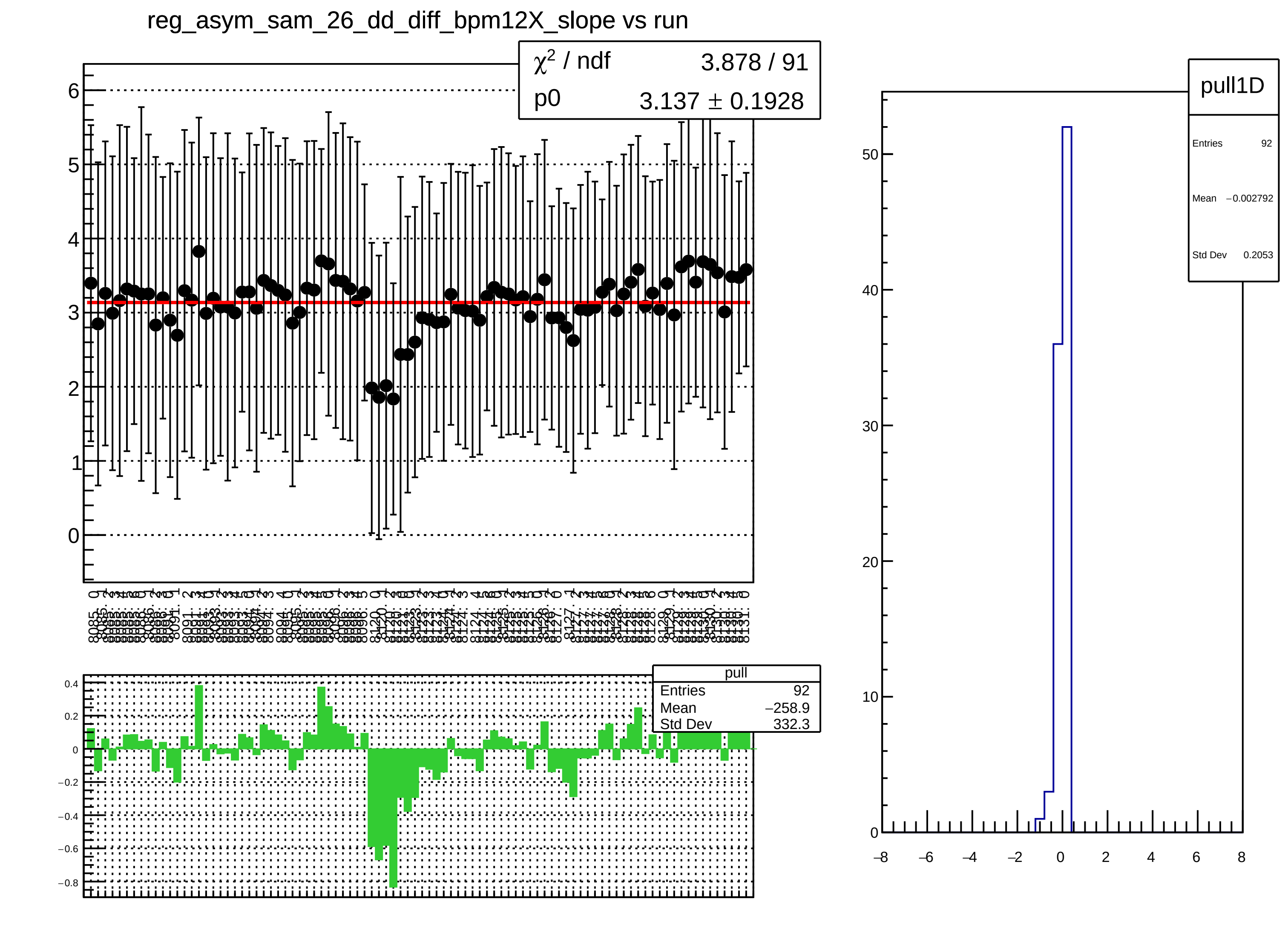


reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 8.399 / 91
p0 −145.2 ± 4.728
pull
Entries 92
Mean −210.1
Std Dev 262.2
pull1D
Entries 92
Mean 0.01586
Std Dev 0.3017

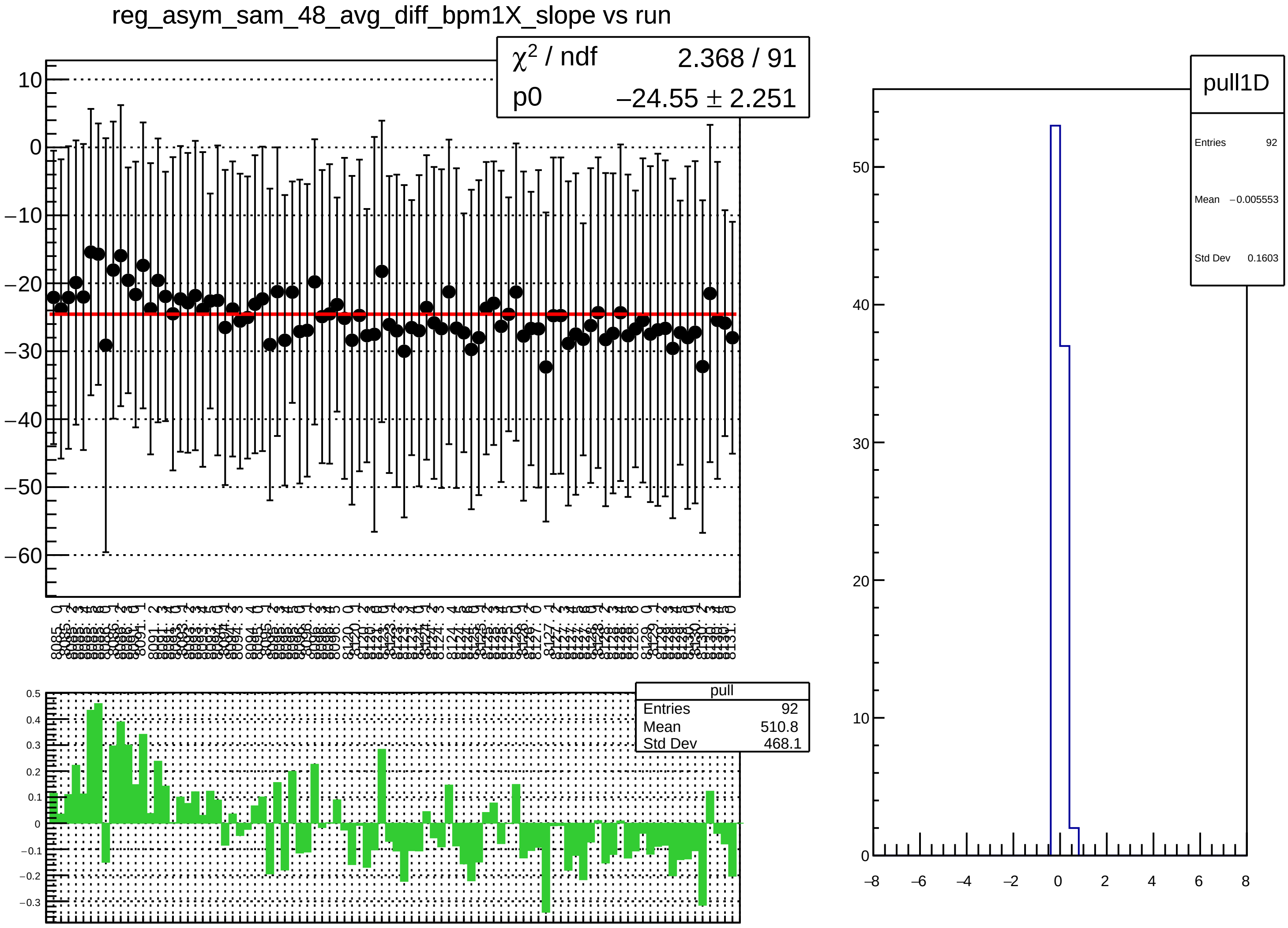

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ2 / ndf 1.247 / 91
p0 −110.7 ± 3.068
pull
Entries 92
Mean −1017
Std Dev 1063
pull1D
Entries 92
Mean −0.002151
Std Dev 0.1164

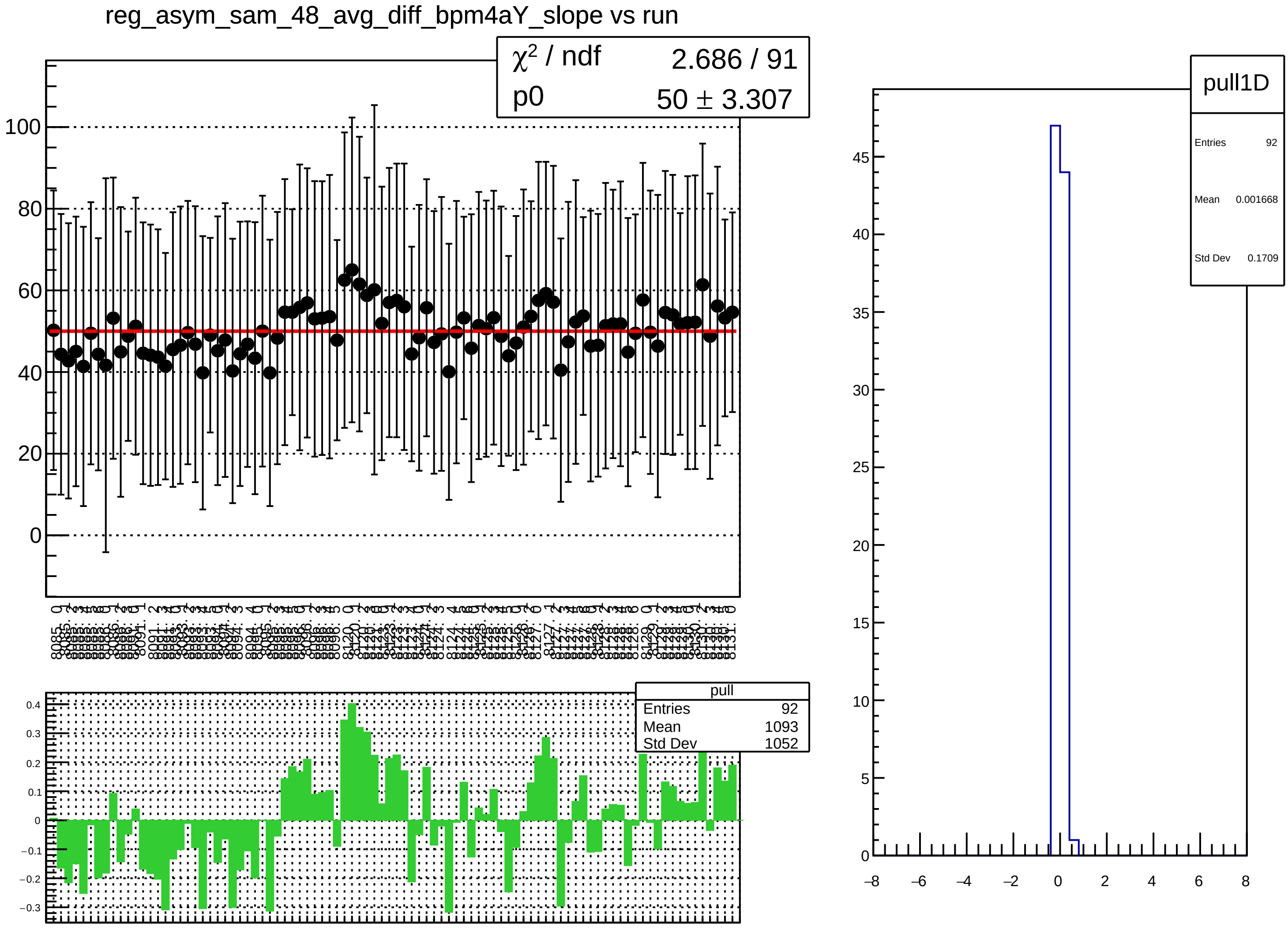


reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 8.783 / 91
p0 −1.277 ± 5.05
pull
Entries 92
Mean −217
Std Dev 269.3
pull1D
Entries 92
Mean −0.01587
Std Dev 0.3086

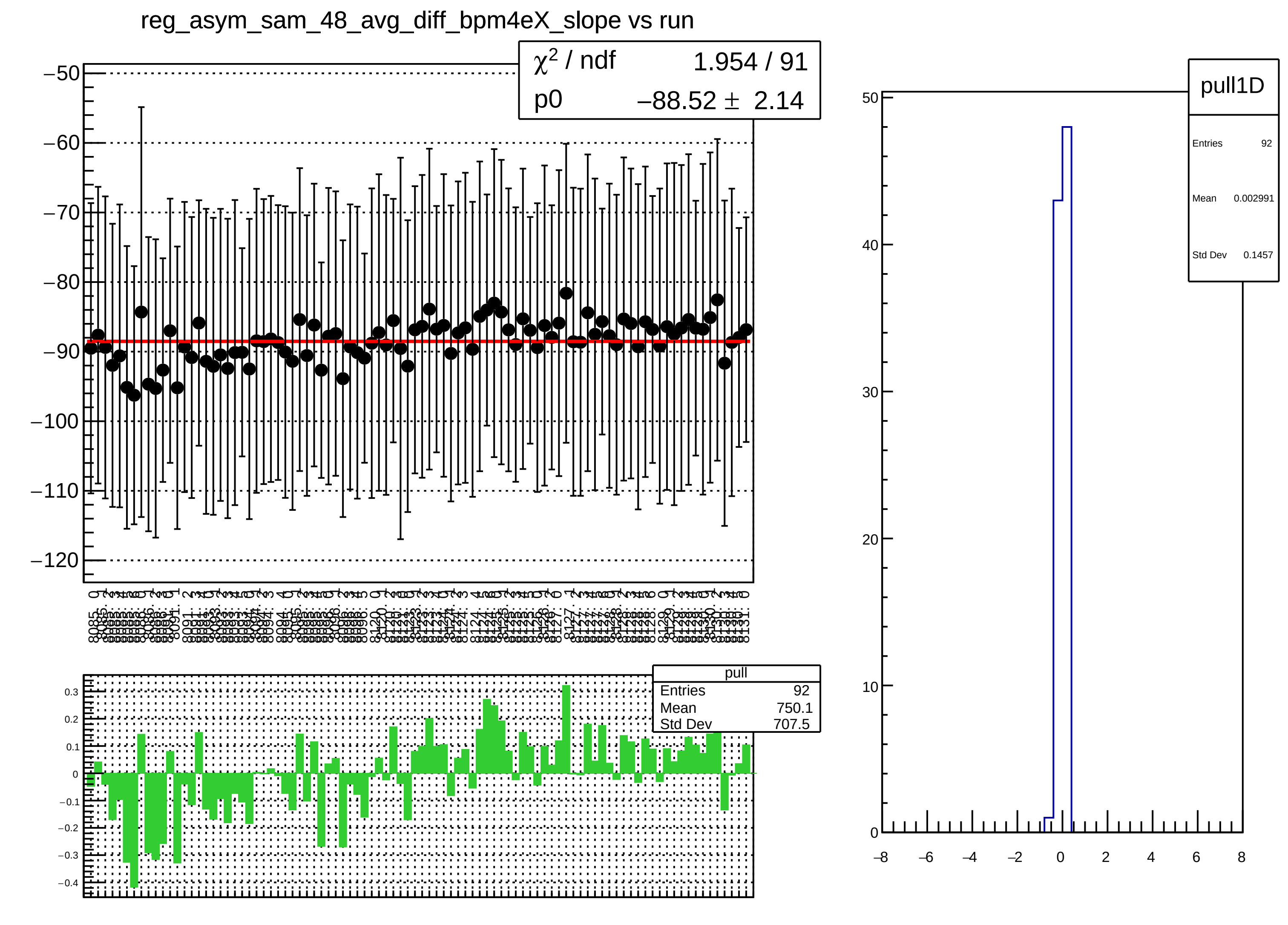


reg_asym_sam_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 3.878 / 91
p0 3.137 ± 0.1928
pull
Entries 92
Mean −258.9
Std Dev 332.3
pull1D
Entries 92
Mean −0.002792
Std Dev 0.2053

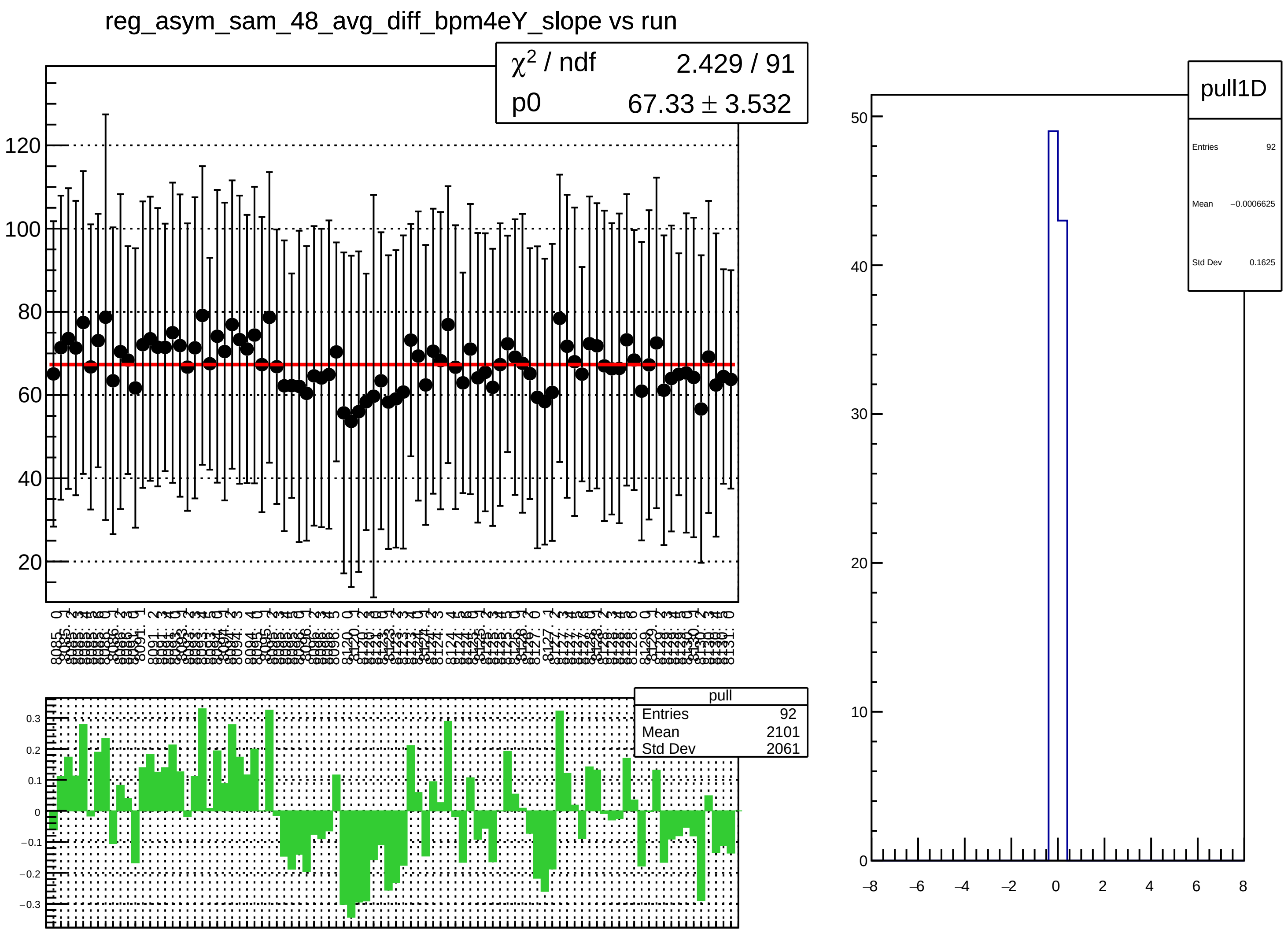

reg_asym_sam_48_avg_diff_bpm1X_slope vs run
χ^2 / ndf 2.368 / 91
p0 −24.55 ± 2.251
pull
Entries 92
Mean 510.8
Std Dev 468.1
pull1D
Entries 92
Mean −0.005553
Std Dev 0.1603



reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 2.686 / 91
p0 50 ± 3.307
pull
Entries 92
Mean 1093
Std Dev 1052
pull1D
Entries 92
Mean 0.001668
Std Dev 0.1709

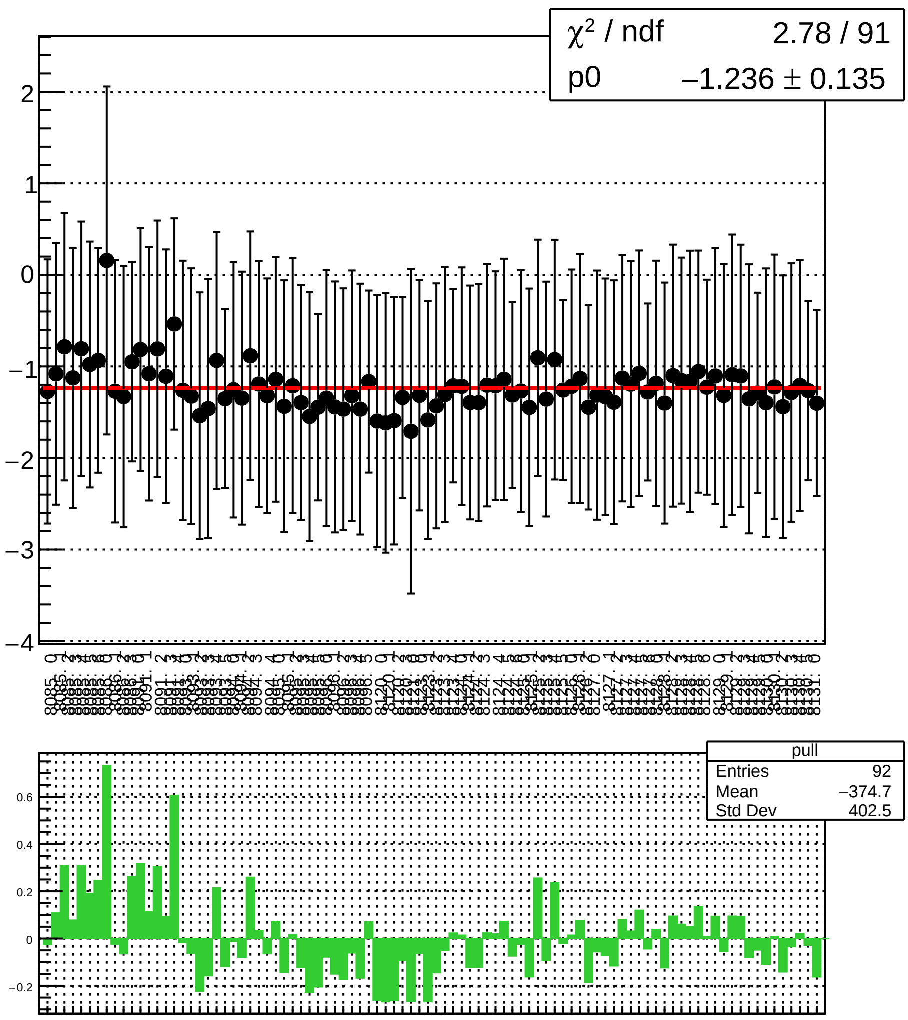


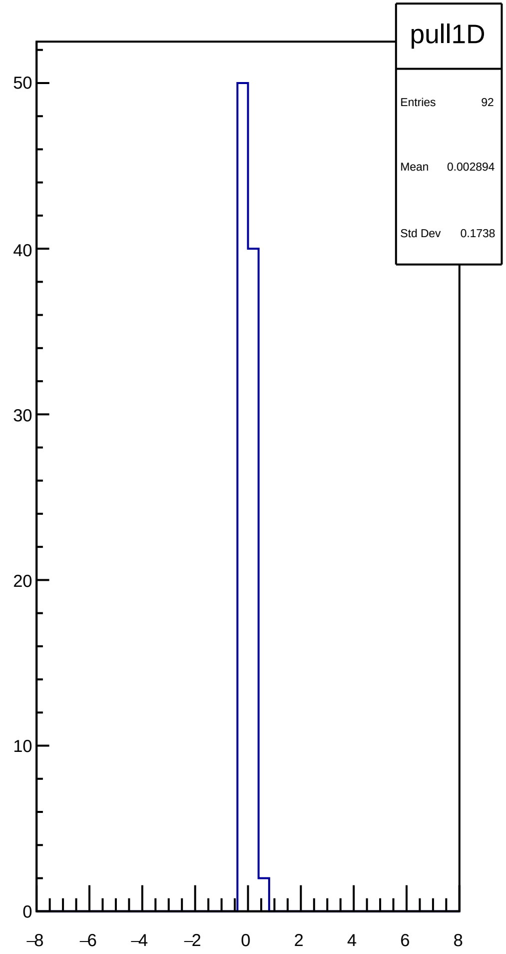
reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ2 / ndf 1.954 / 91
p0 −88.52 ± 2.14
pull
Entries 92
Mean 750.1
Std Dev 707.5
pull1D
Entries 92
Mean 0.002991
Std Dev 0.1457

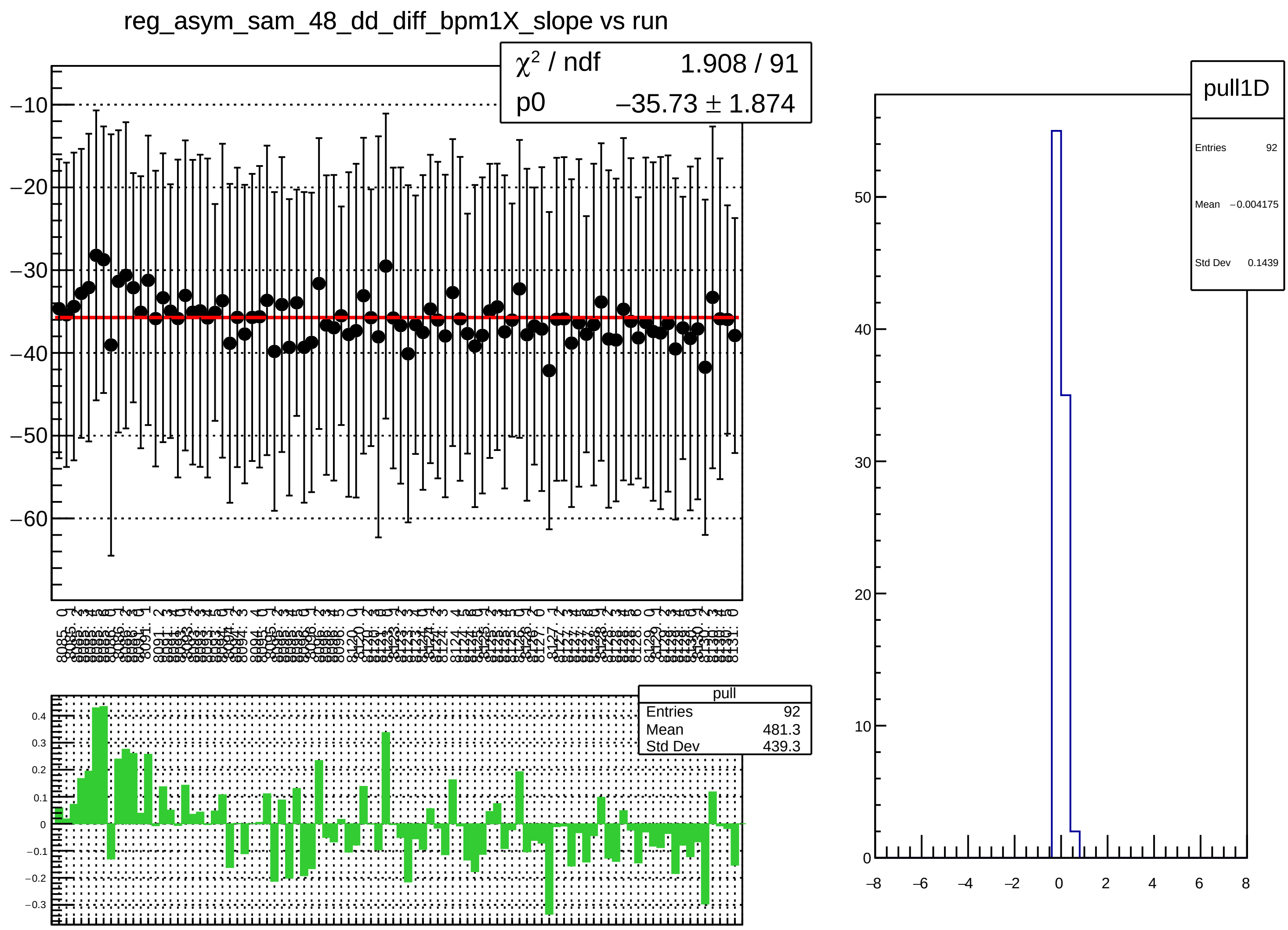


reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.429 / 91
p0 67.33 ± 3.532
pull
Entries 92
Mean 2101
Std Dev 2061
pull1D
Entries 92
Mean −0.0006625
Std Dev 0.1625

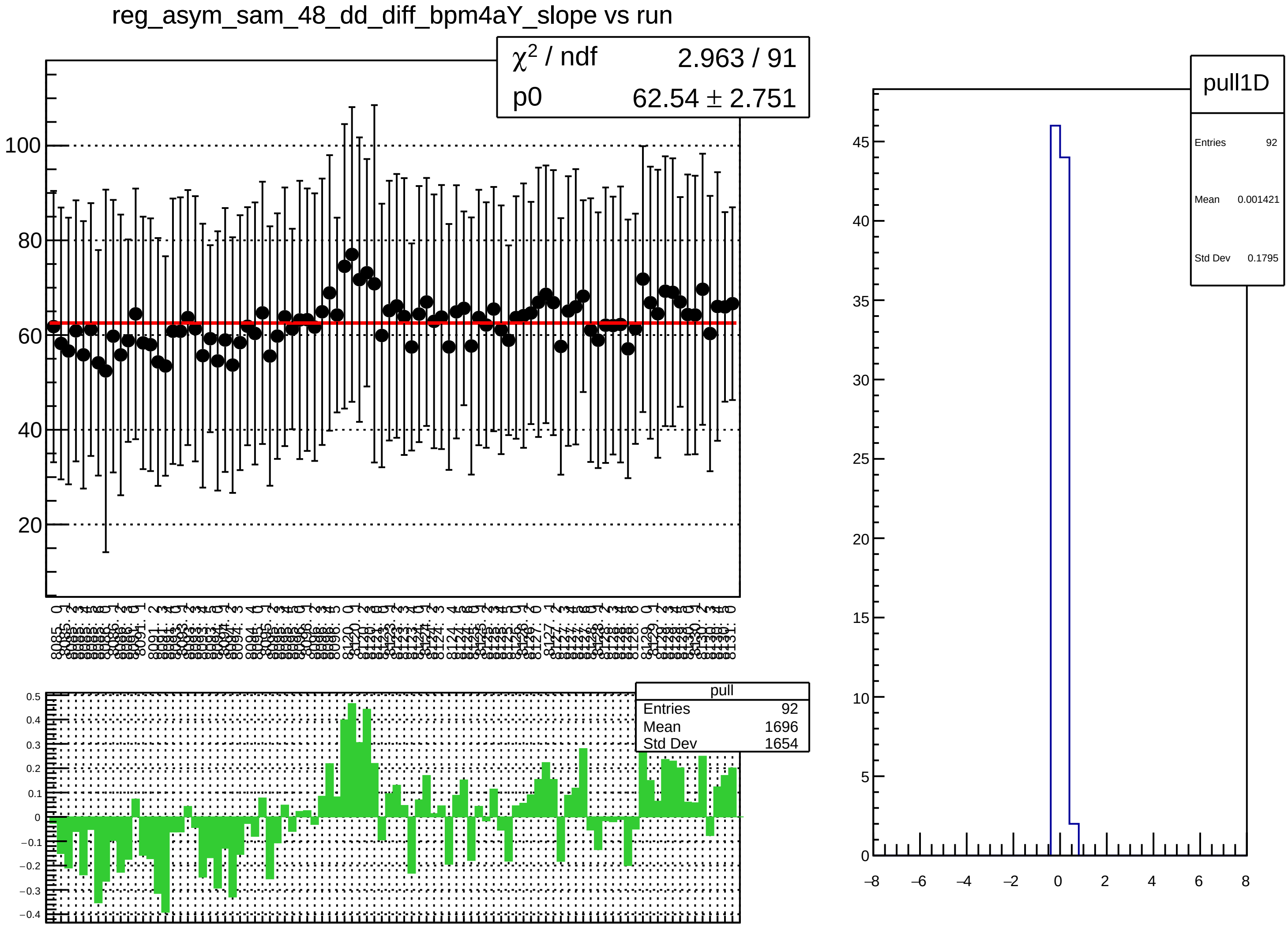
reg_asym_sam_48_avg_diff_bpm12X_slope vs run



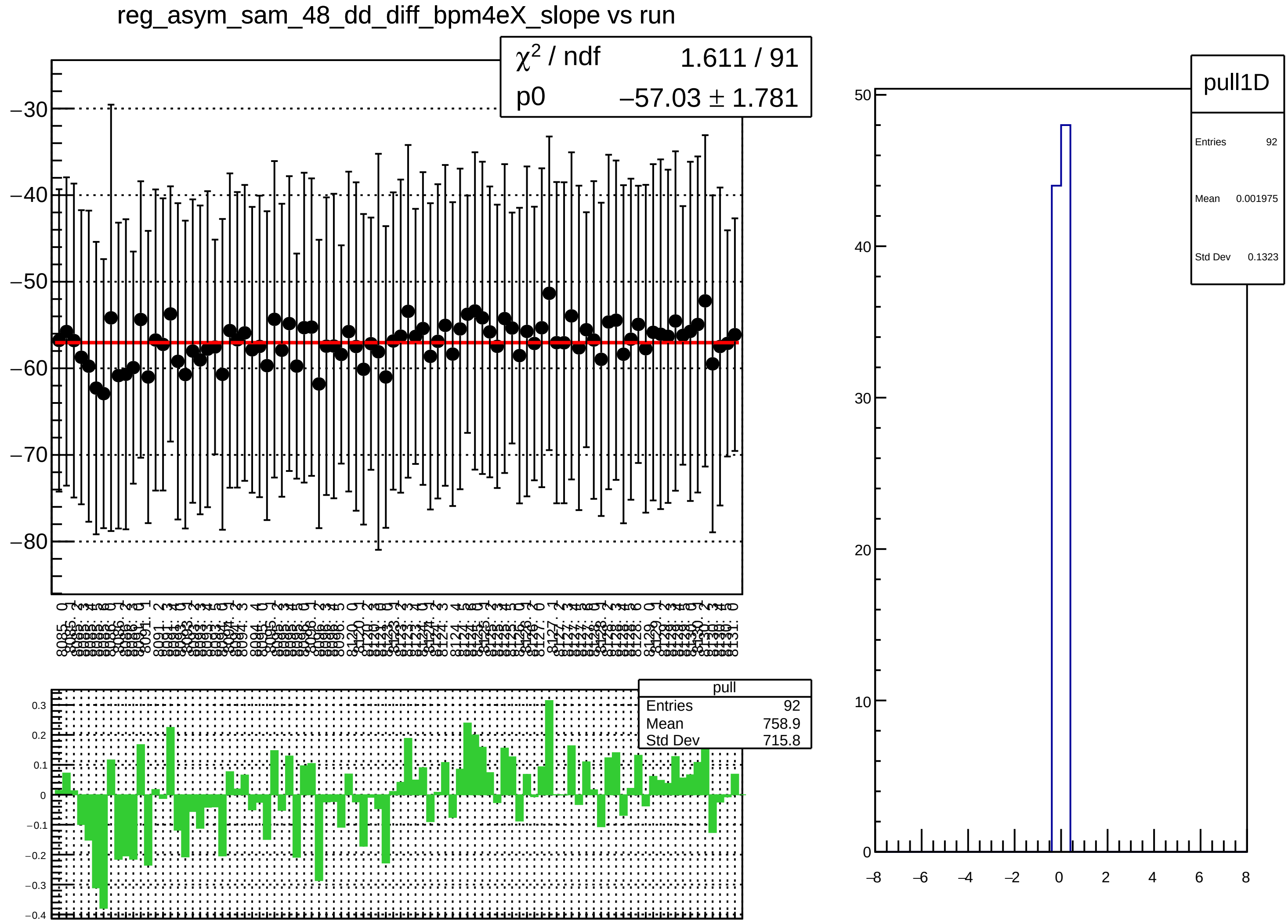




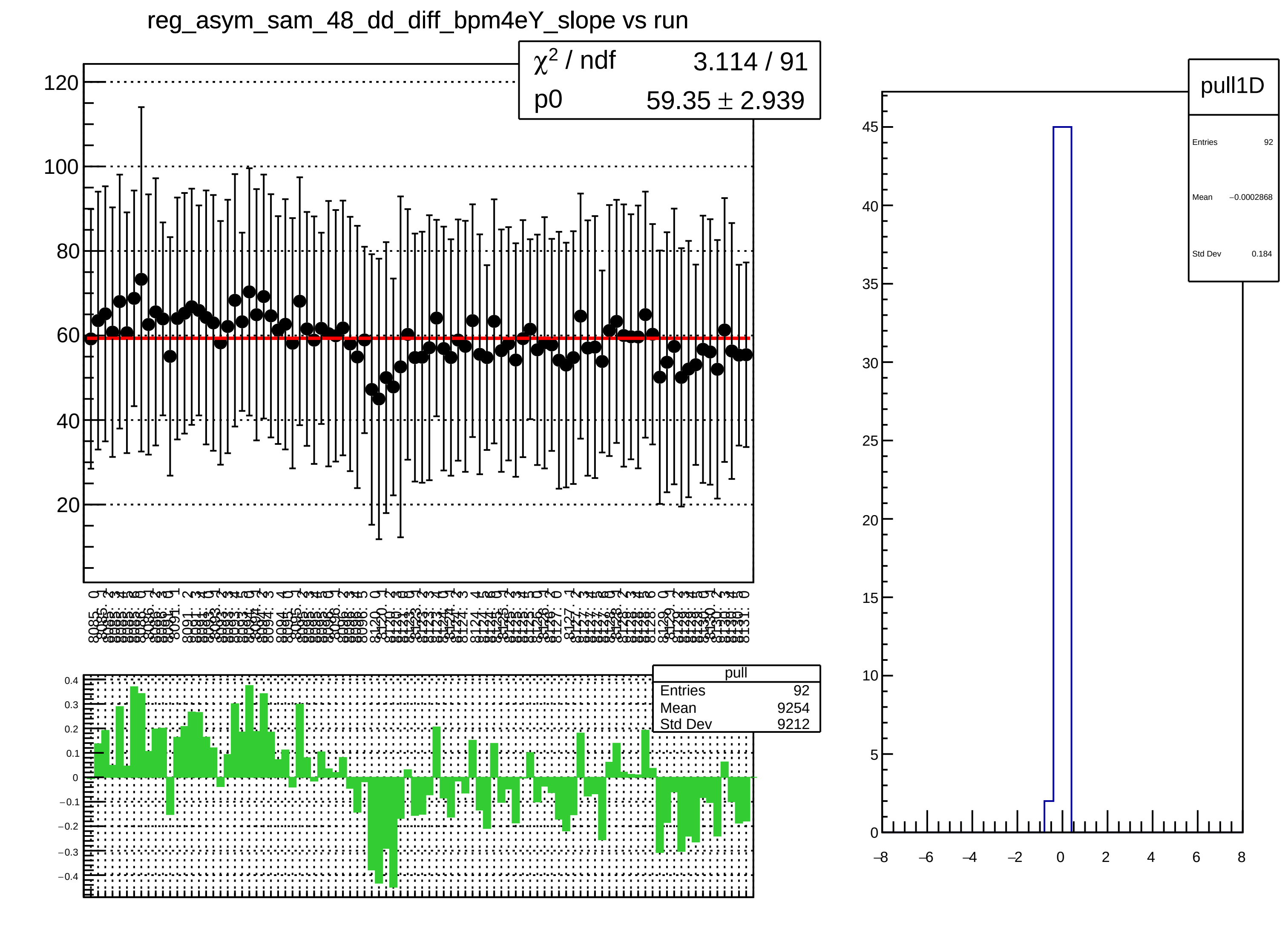
reg_asym_sam_48_dd_diff_bpm1X_slope vs run
χ^2 / ndf 1.908 / 91
p0 −35.73 ± 1.874
pull
Entries 92
Mean 481.3
Std Dev 439.3
pull1D
Entries 92
Mean −0.004175
Std Dev 0.1439



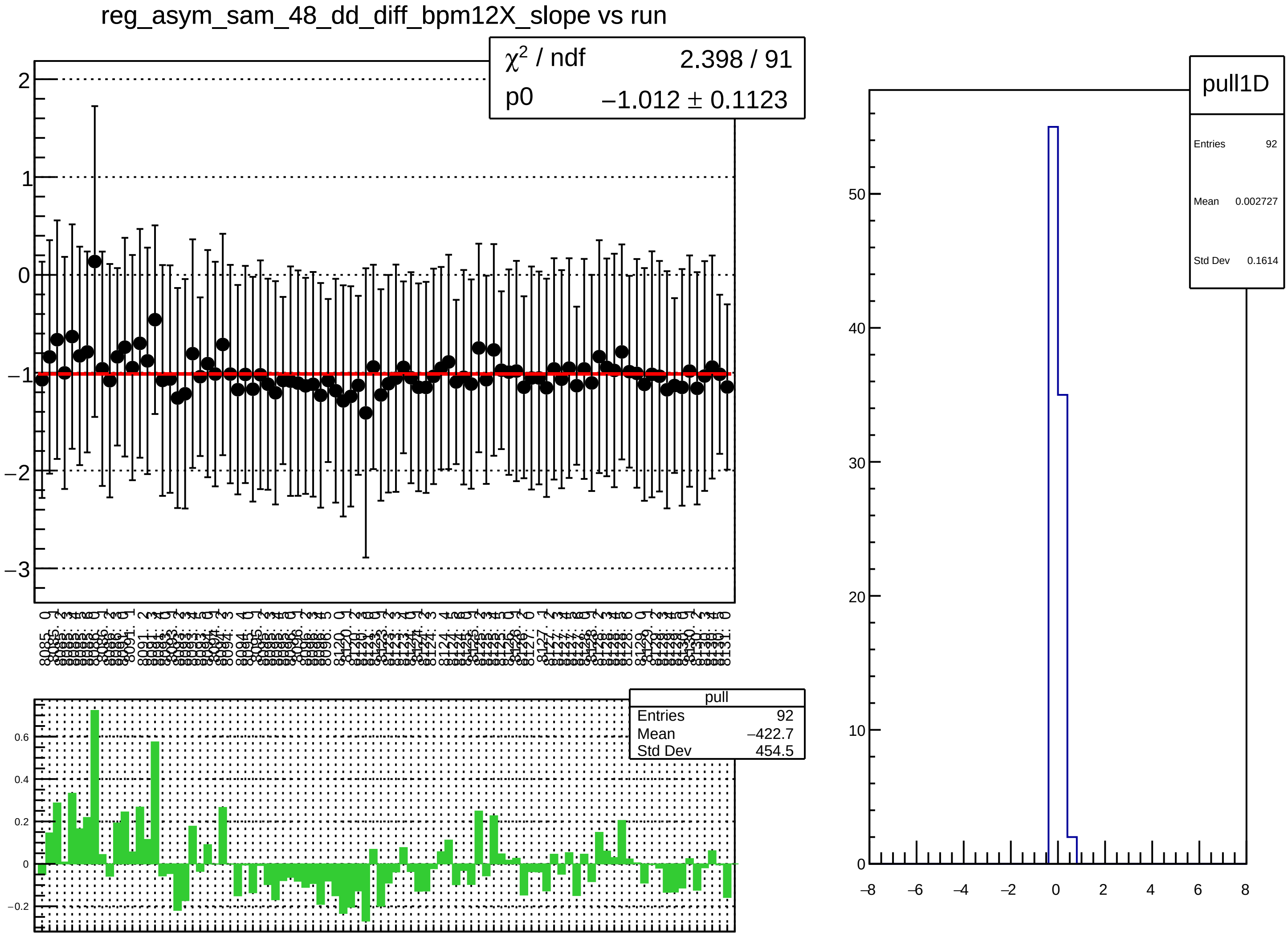
reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 2.963 / 91
p0 62.54 ± 2.751
pull
Entries 92
Mean 1696
Std Dev 1654
pull1D
Entries 92
Mean 0.001421
Std Dev 0.1795



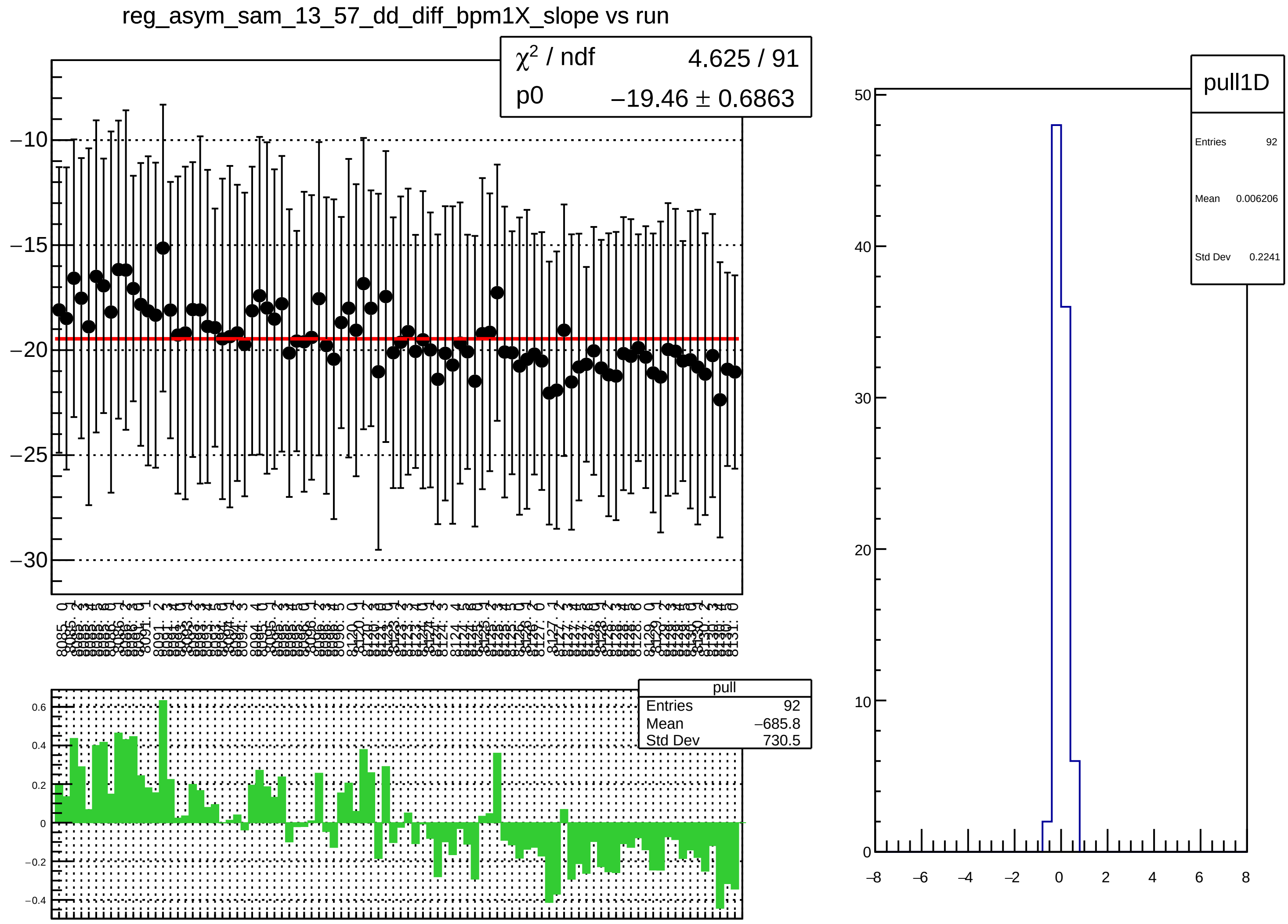
reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 1.611 / 91
p0 −57.03 ± 1.781
pull
Entries 92
Mean 758.9
Std Dev 715.8
pull1D
Entries 92
Mean 0.001975
Std Dev 0.1323



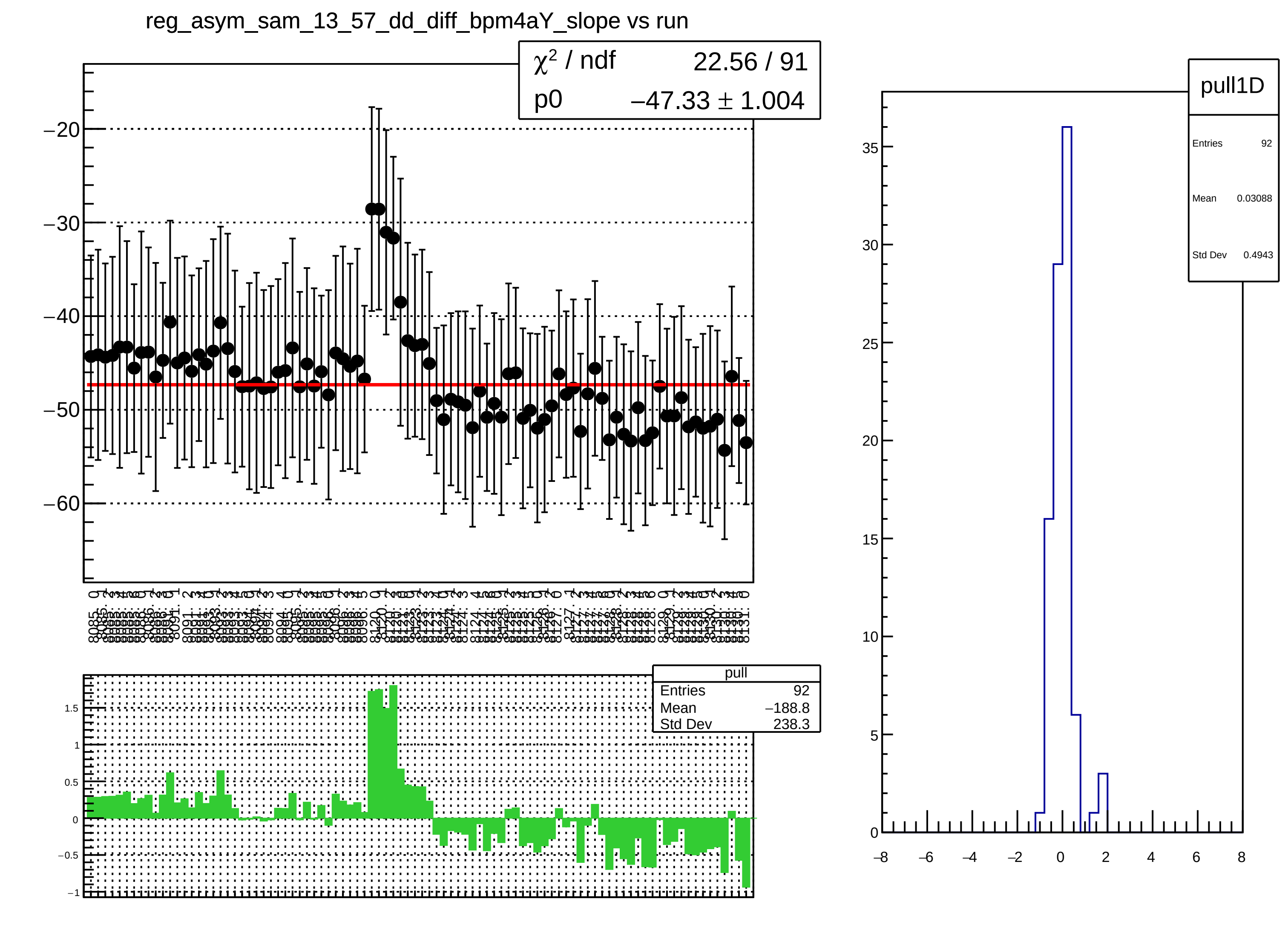
reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 3.114 / 91
p0 59.35 ± 2.939
pull
Entries 92
Mean 9254
Std Dev 9212
pull1D
Entries 92
Mean −0.0002868
Std Dev 0.184

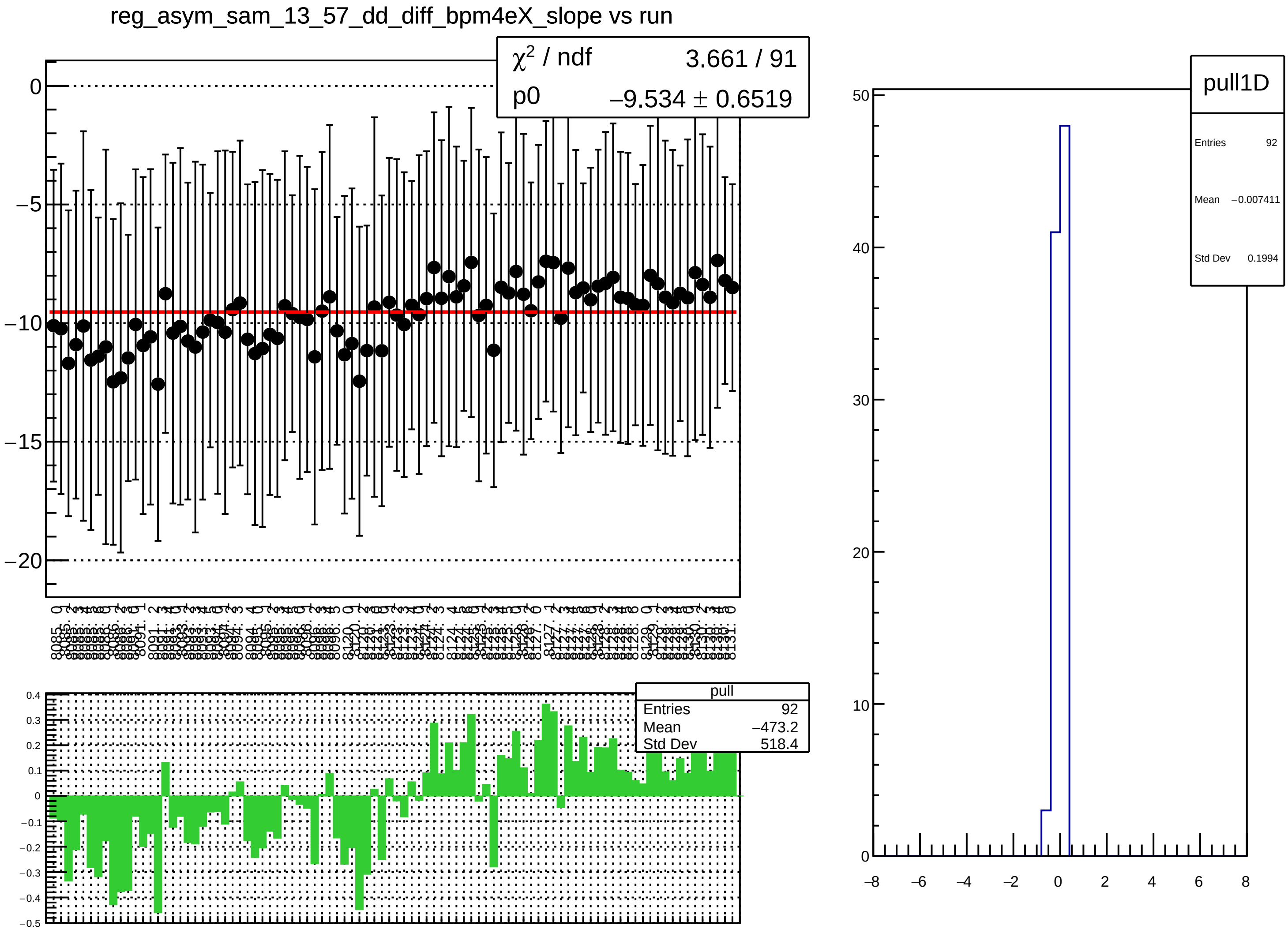


reg_asym_sam_48_dd_diff_bpm12X_slope vs run
χ^2 / ndf 2.398 / 91
p0 −1.012 ± 0.1123
pull
Entries 92
Mean −422.7
Std Dev 454.5
pull1D
Entries 92
Mean 0.002727
Std Dev 0.1614

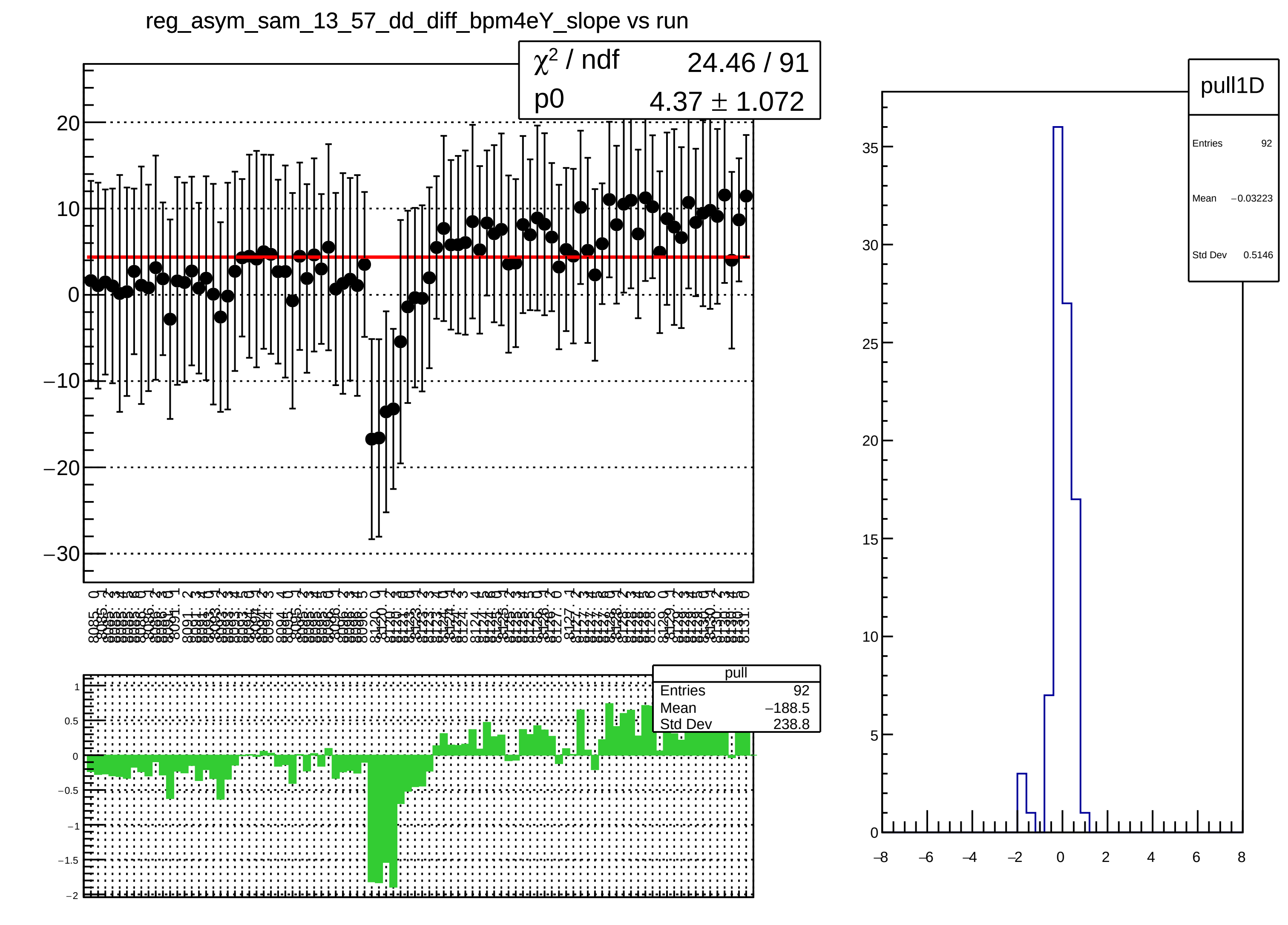


reg_asym_sam_13_57_dd_diff_bpm1X_slope vs run
χ^2 / ndf 4.625 / 91
p0 −19.46 ± 0.6863
pull
Entries 92
Mean −685.8
Std Dev 730.5
pull1D
Entries 92
Mean 0.006206
Std Dev 0.2241

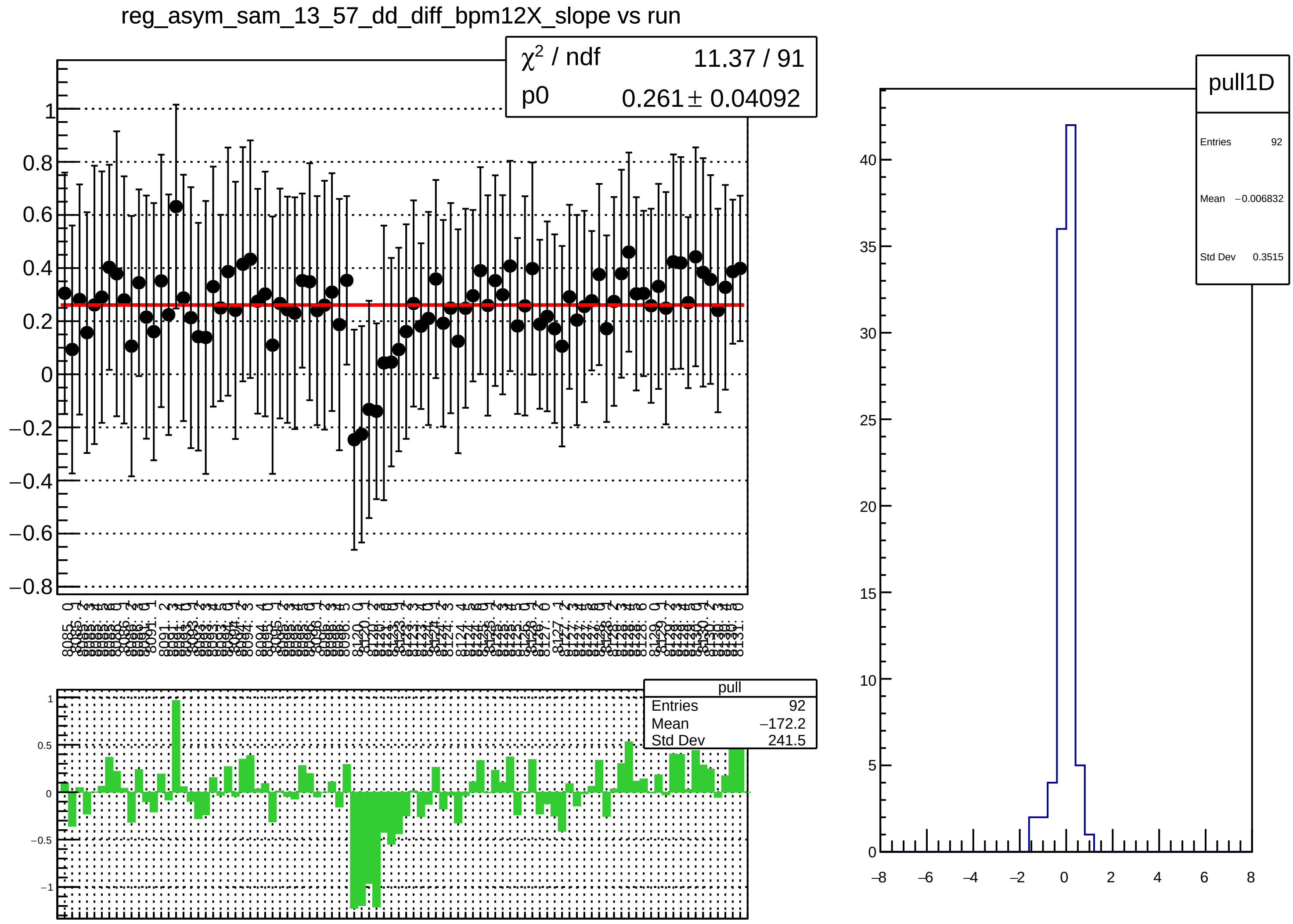

reg_asym_sam_13_57_dd_diff_bpm4aY_slope vs run
χ2 / ndf 22.56 / 91
p0 −47.33 ± 1.004
−20
−30
−40
−50
−60
pull
Entries 92
Mean −188.8
Std Dev 238.3
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.03088
Std Dev 0.4943
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



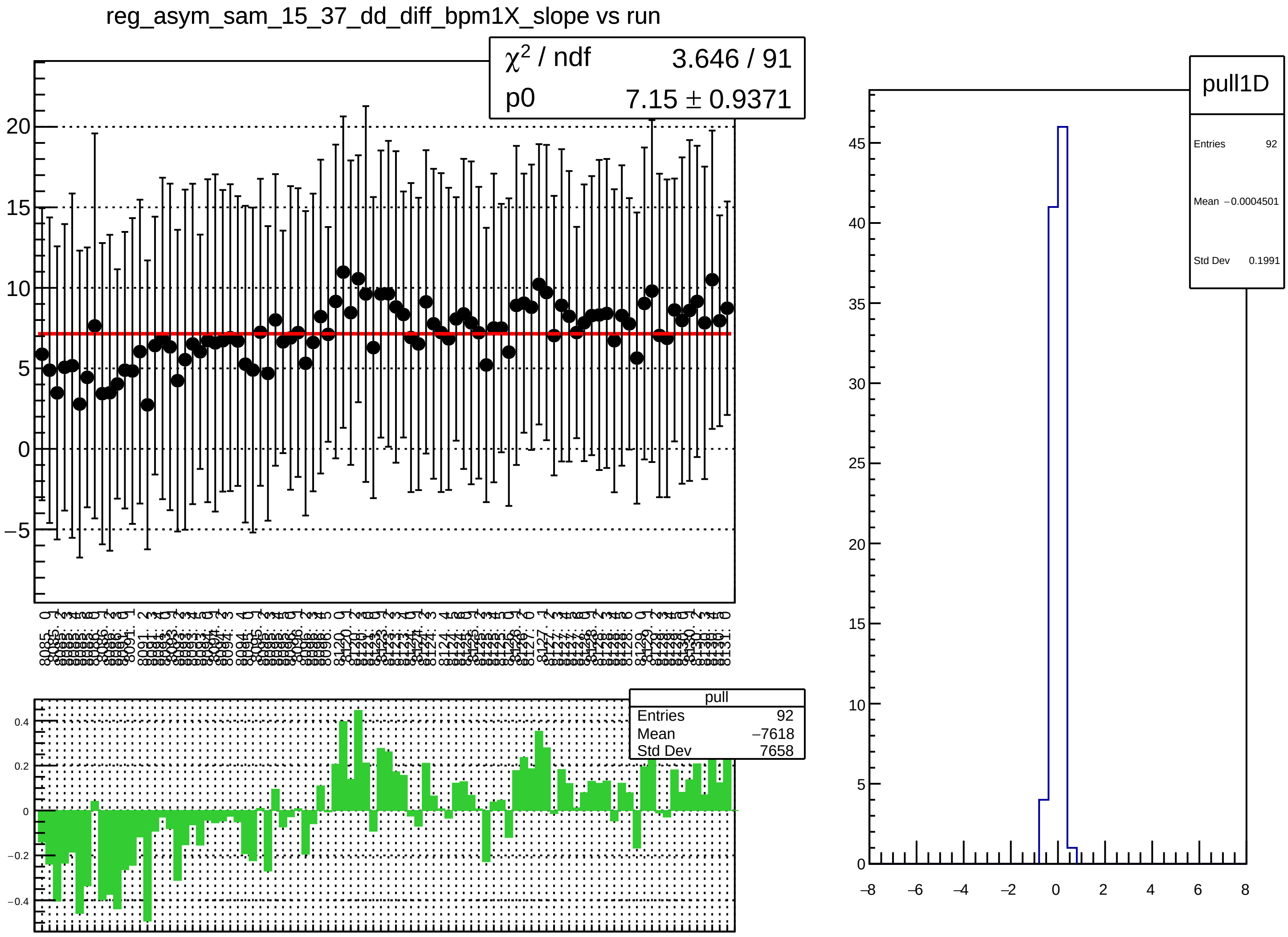
reg_asym_sam_13_57_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 3.661 / 91
p0 −9.534 ± 0.6519
pull
Entries 92
Mean −473.2
Std Dev 518.4
pull1D
Entries 92
Mean −0.007411
Std Dev 0.1994



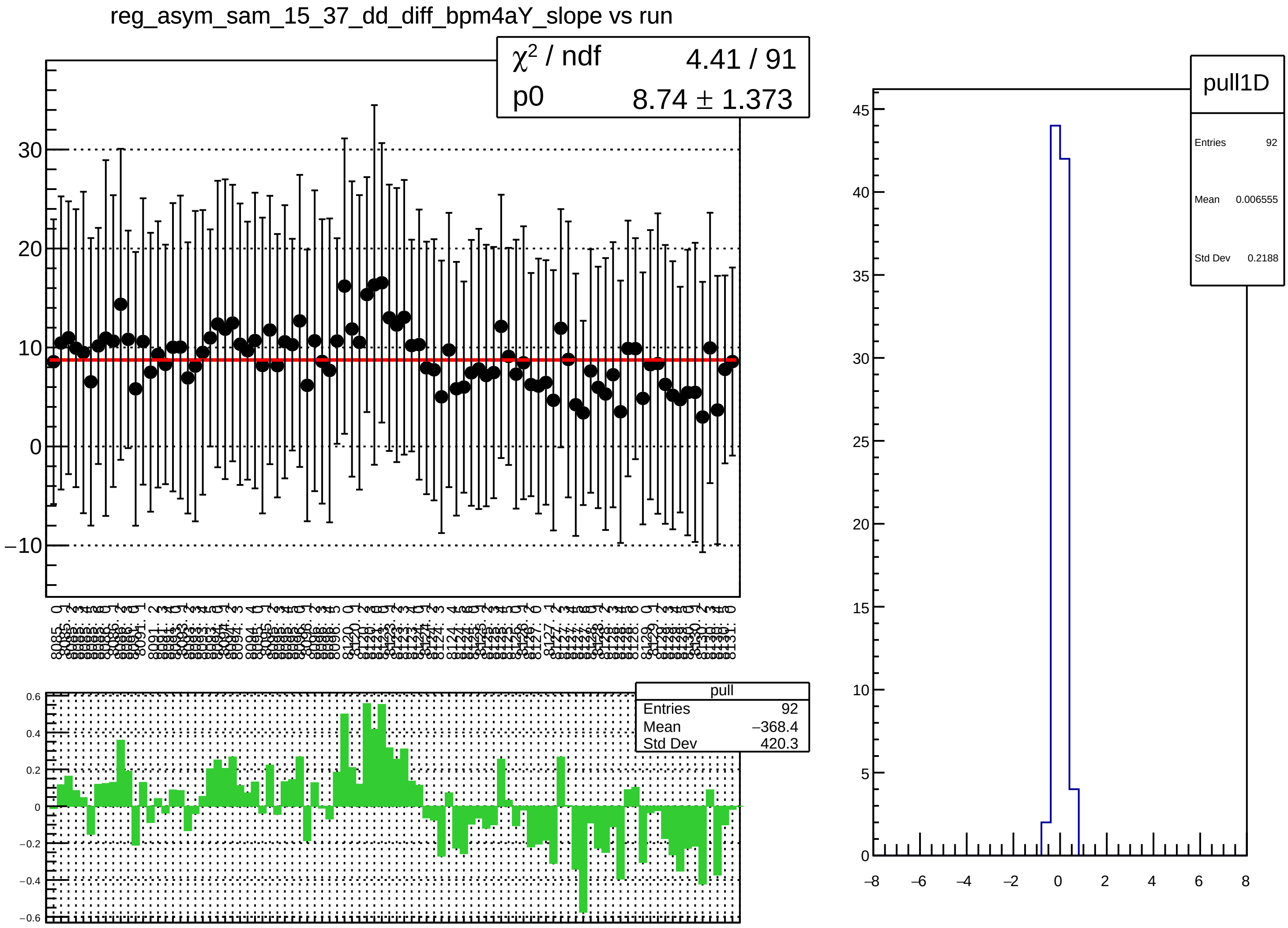
reg_asym_sam_13_57_dd_diff_bpm4eY_slope vs run
χ2 / ndf 24.46 / 91
p0 4.37 ± 1.072
pull
Entries 92
Mean −188.5
Std Dev 238.8
pull1D
Entries 92
Mean −0.03223
Std Dev 0.5146



reg_asym_sam_13_57_dd_diff_bpm12X_slope vs run
χ2 / ndf 11.37 / 91
p0 0.261 ± 0.04092
pull
Entries 92
Mean −172.2
Std Dev 241.5
pull1D
Entries 92
Mean −0.006832
Std Dev 0.3515

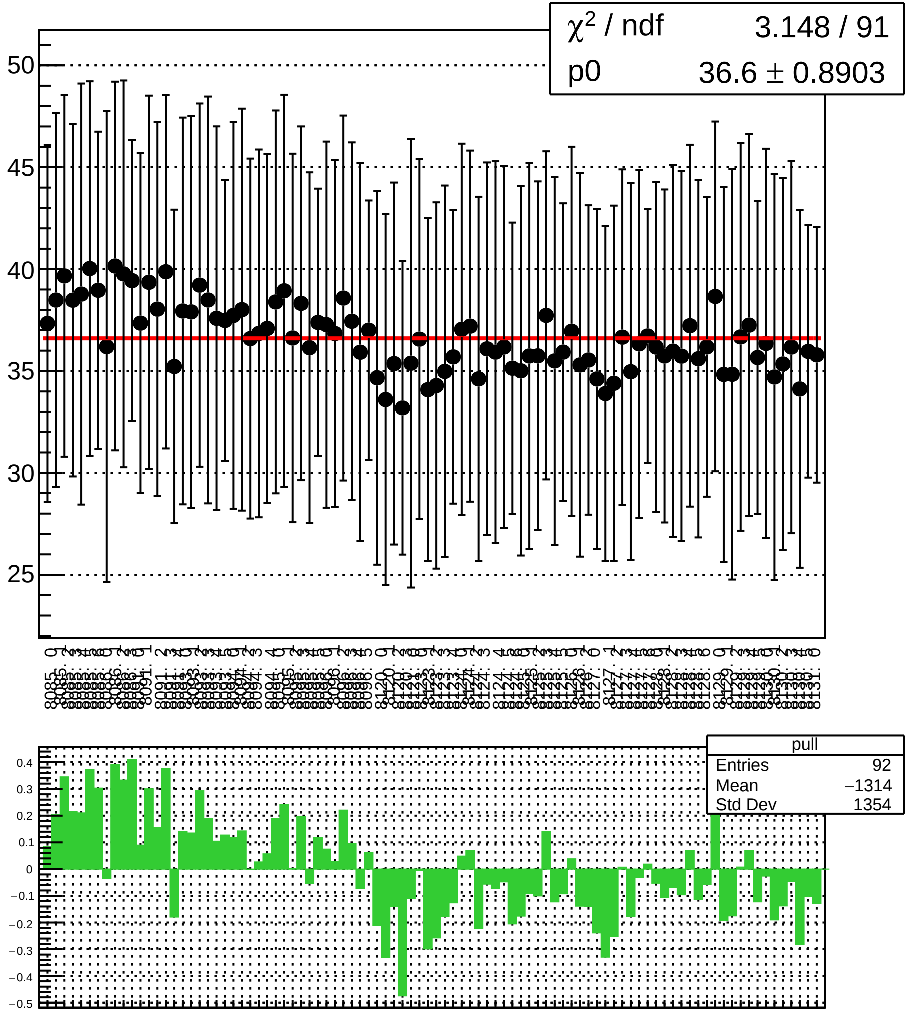


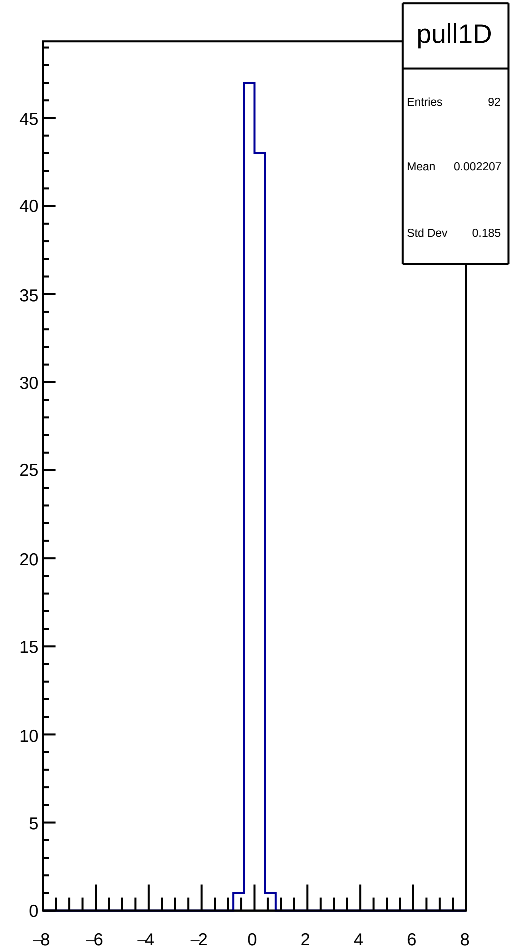
reg_asym_sam_15_37_dd_diff_bpm1X_slope vs run
χ^2 / ndf 3.646 / 91
p0 7.15 ± 0.9371
pull
Entries 92
Mean −7618
Std Dev 7658
pull1D
Entries 92
Mean −0.0004501
Std Dev 0.1991

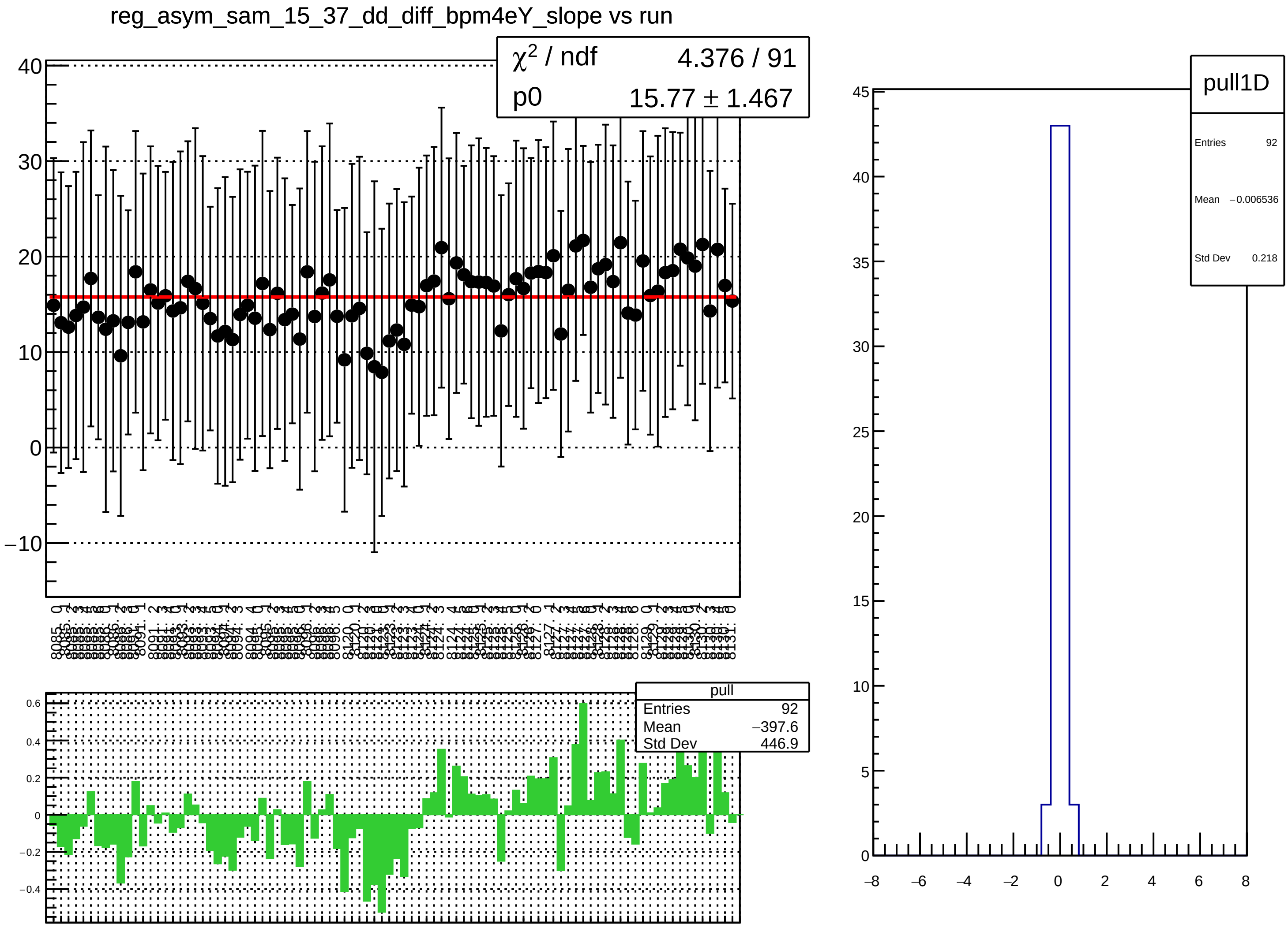


reg_asym_sam_15_37_dd_diff_bpm4aY_slope vs run
χ2 / ndf 4.41 / 91
p0 8.74 ± 1.373
pull
Entries 92
Mean −368.4
Std Dev 420.3
pull1D
Entries 92
Mean 0.006555
Std Dev 0.2188

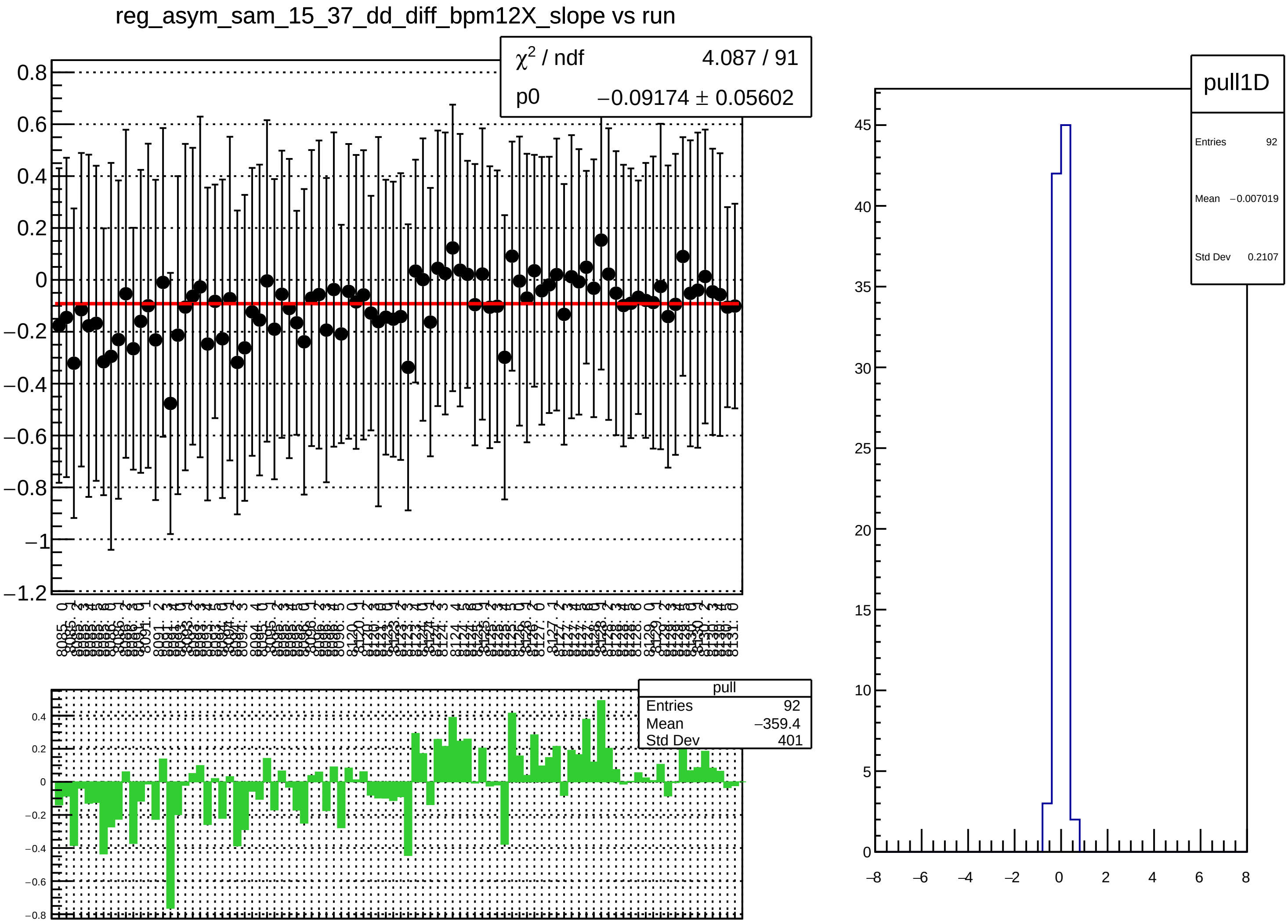
reg_asym_sam_15_37_dd_diff_bpm4eX_slope vs run



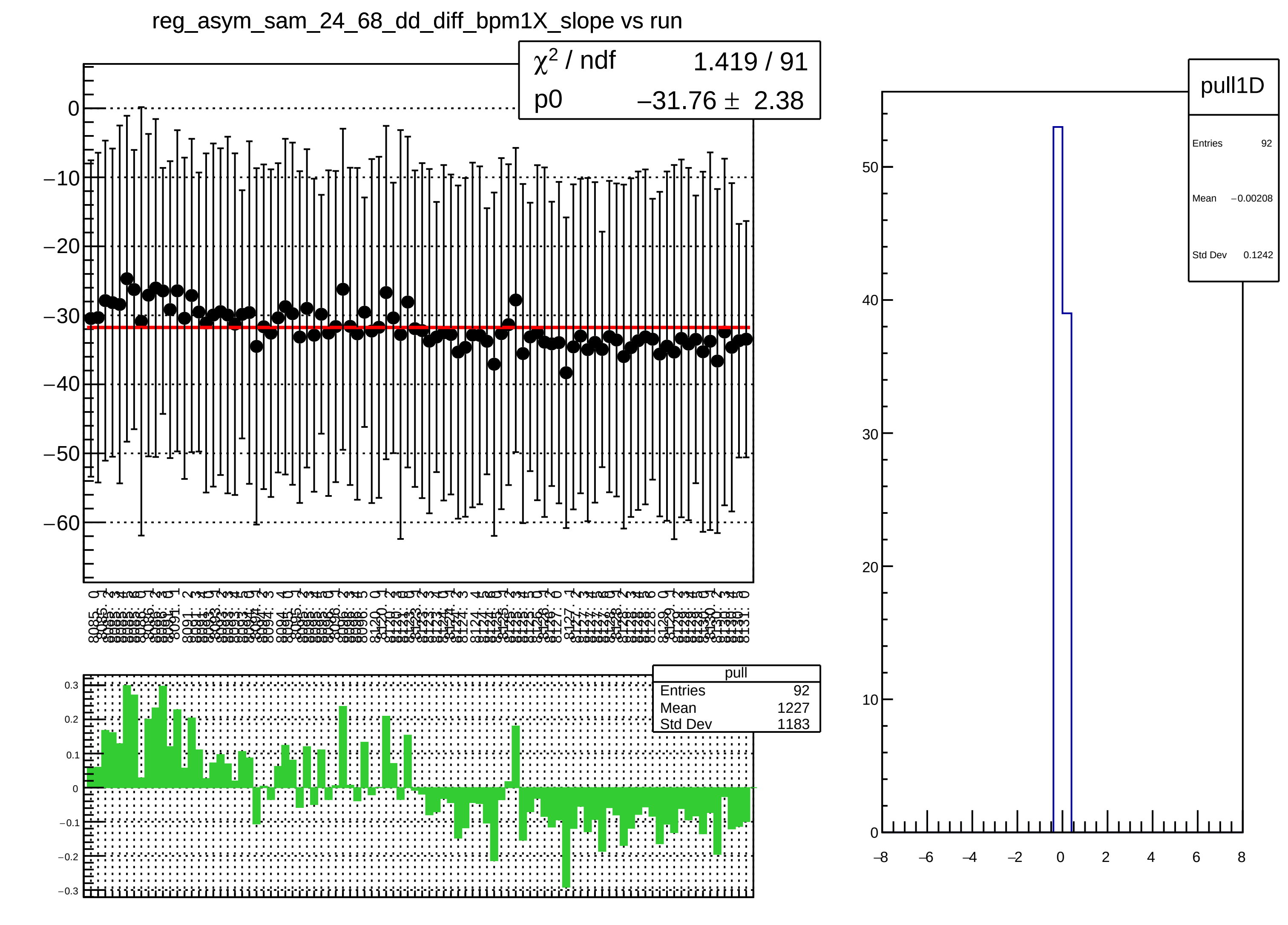


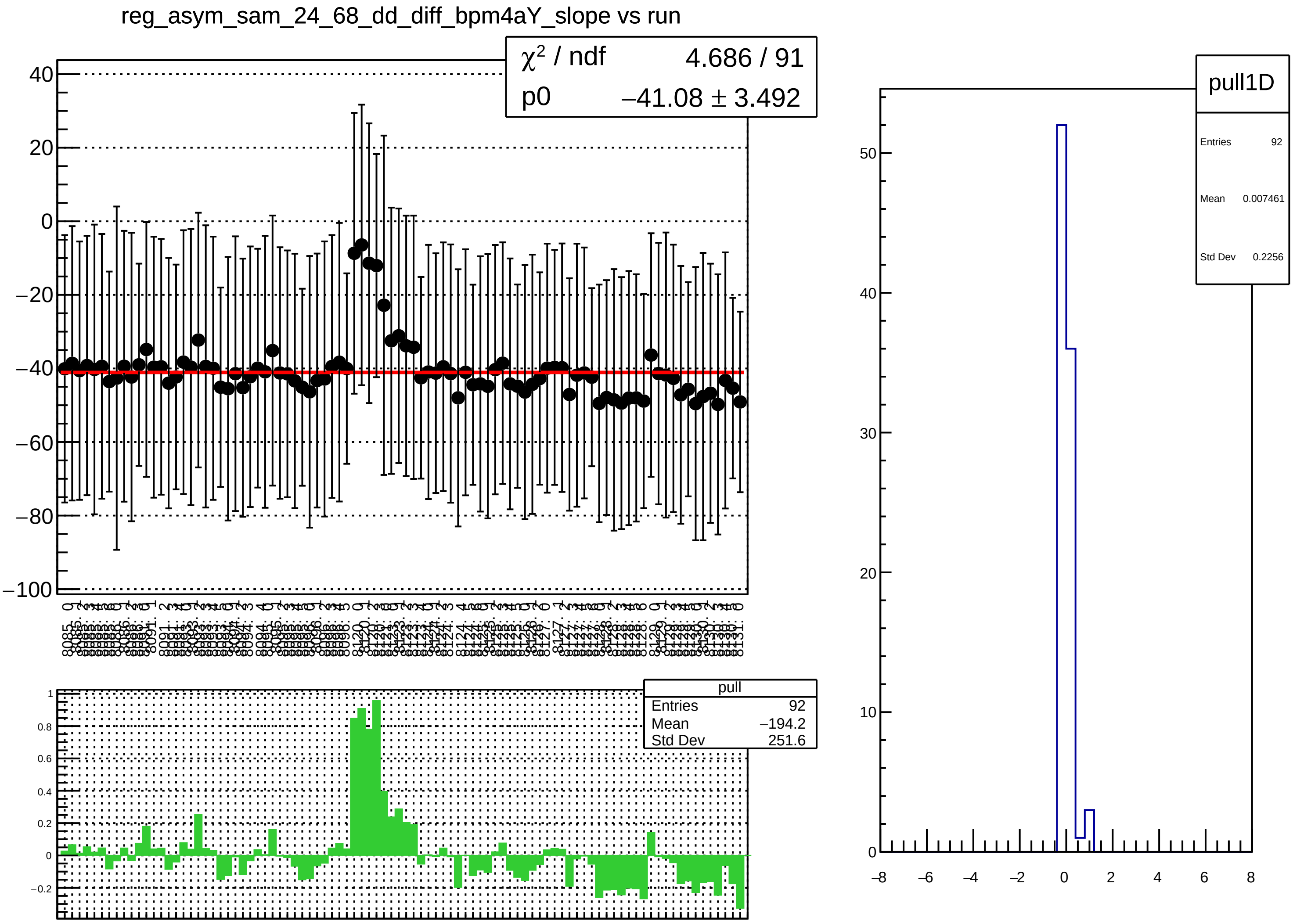


reg_asym_sam_15_37_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 4.376 / 91
p0 15.77 ± 1.467
pull
Entries 92
Mean −397.6
Std Dev 446.9
pull1D
Entries 92
Mean −0.006536
Std Dev 0.218

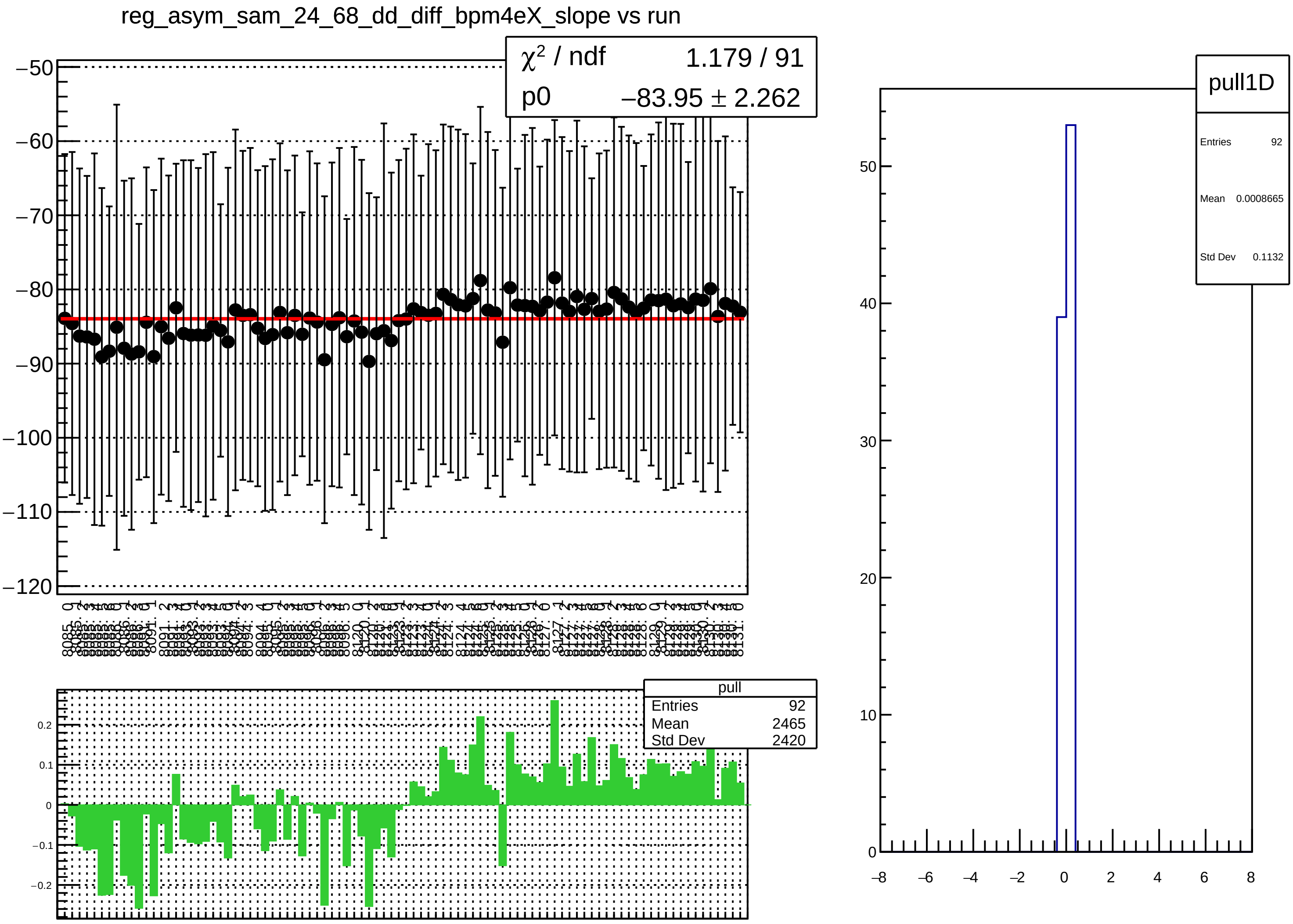


reg_asym_sam_15_37_dd_diff_bpm12X_slope vs run
χ^2 / ndf 4.087 / 91
p0 −0.09174 ± 0.05602
pull
Entries 92
Mean −359.4
Std Dev 401
pull1D
Entries 92
Mean −0.007019
Std Dev 0.2107

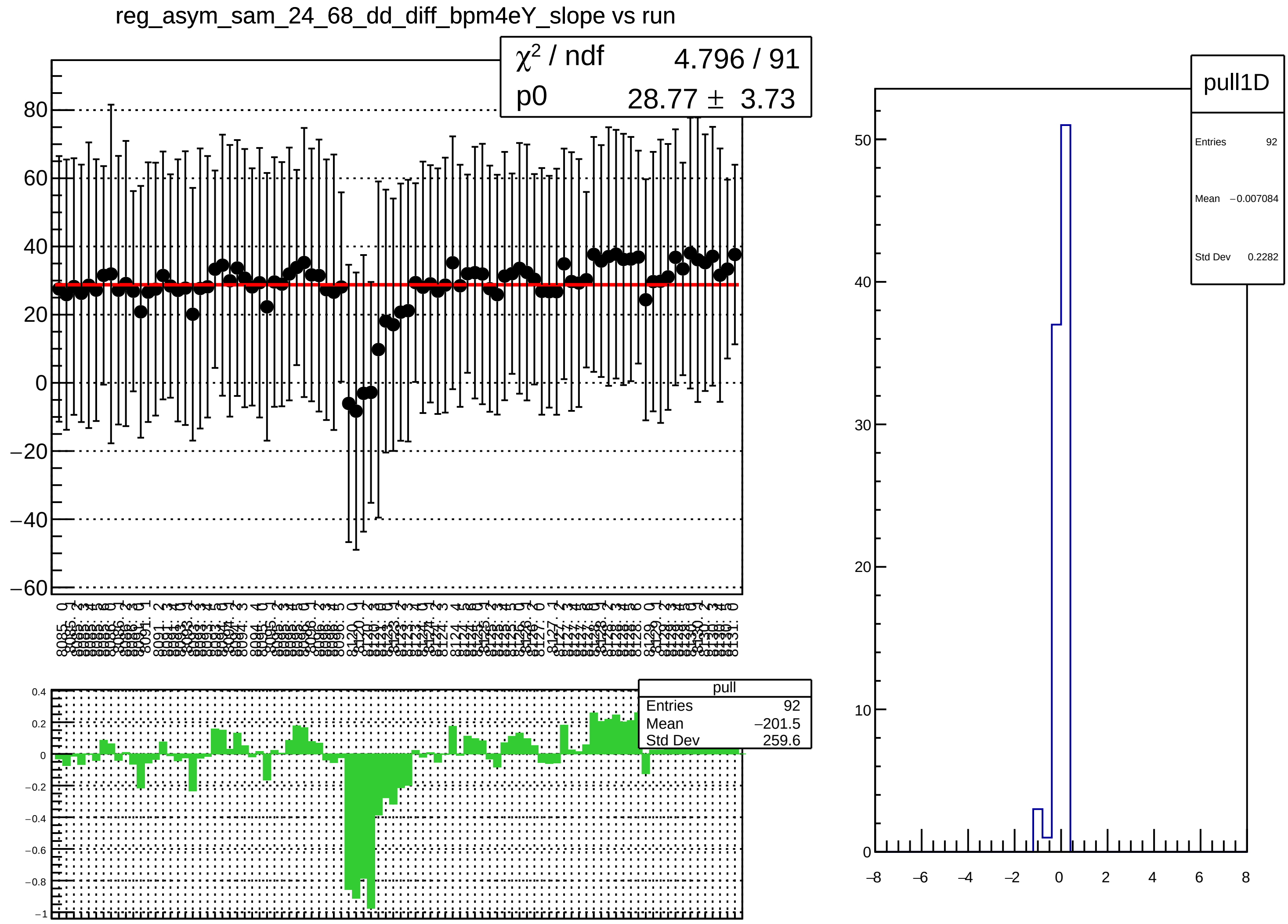

reg_asym_sam_24_68_dd_diff_bpm1X_slope vs run
χ^2 / ndf 1.419 / 91
p0 −31.76 ± 2.38
pull
Entries 92
Mean 1227
Std Dev 1183
pull1D
Entries 92
Mean −0.00208
Std Dev 0.1242



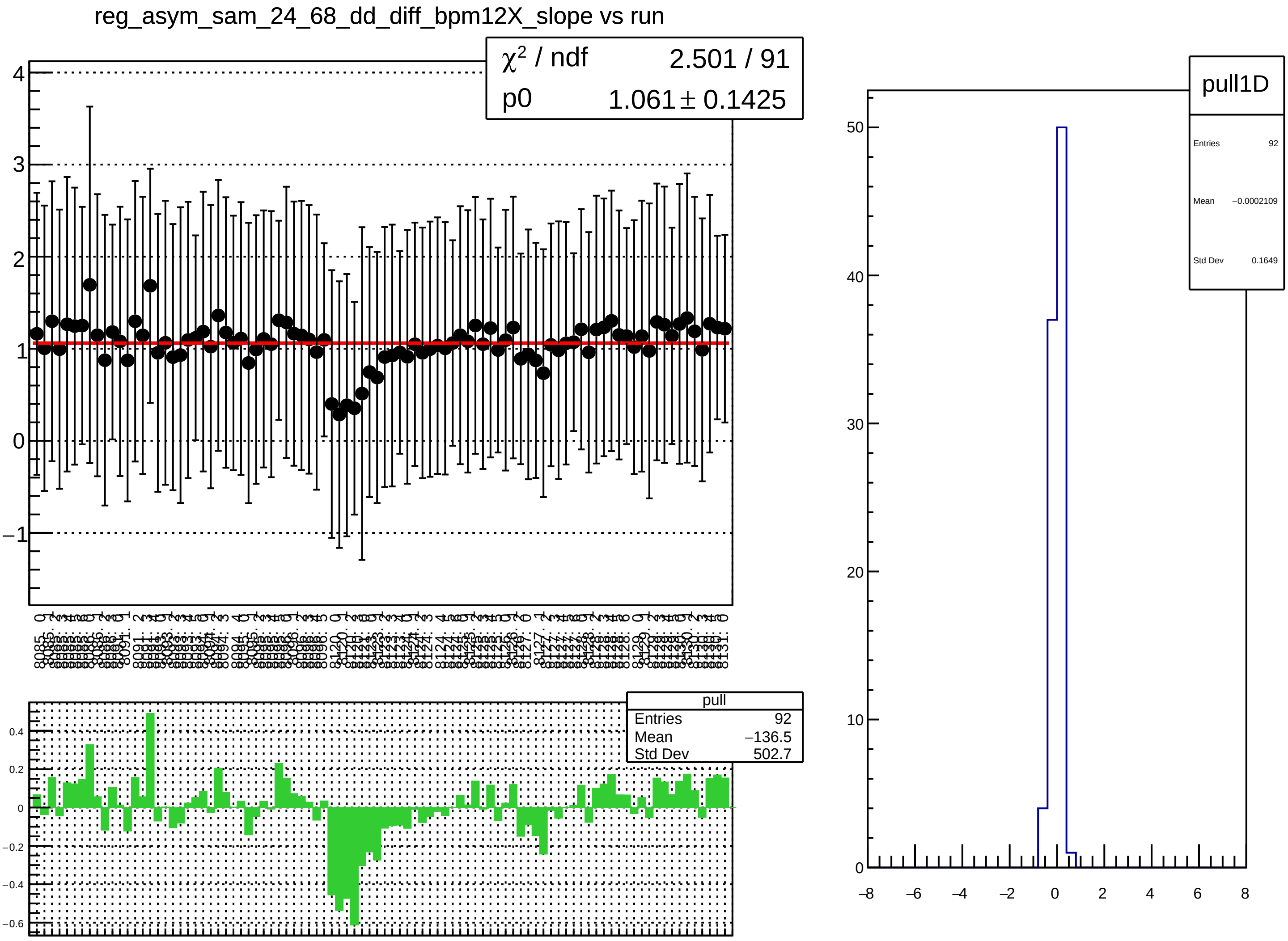
reg_asym_sam_24_68_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 4.686 / 91
p0 −41.08 ± 3.492
pull
Entries 92
Mean −194.2
Std Dev 251.6
pull1D
Entries 92
Mean 0.007461
Std Dev 0.2256



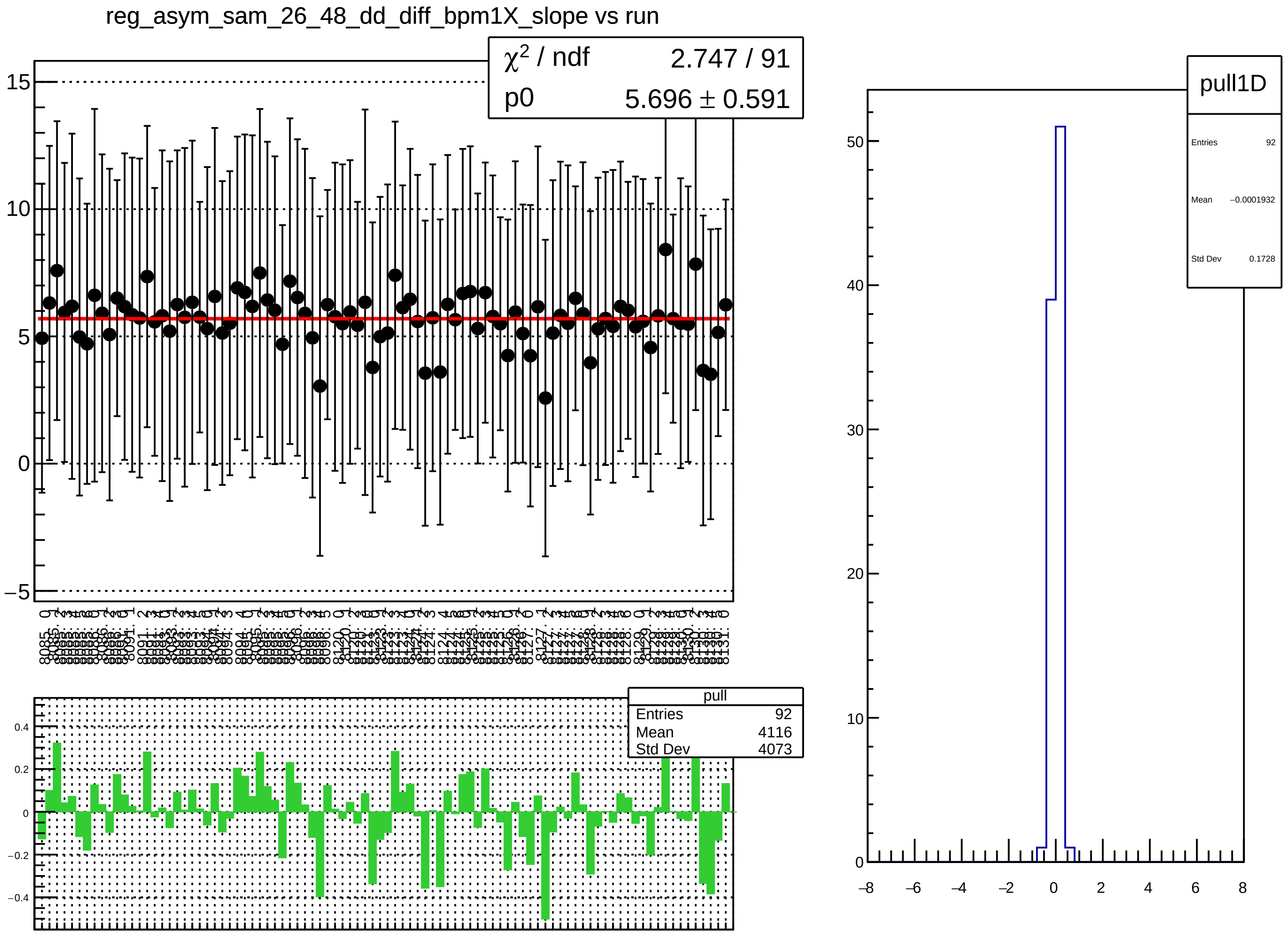
reg_asym_sam_24_68_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 1.179 / 91
p0 −83.95 ± 2.262
pull
Entries 92
Mean 2465
Std Dev 2420
pull1D
Entries 92
Mean 0.0008665
Std Dev 0.1132



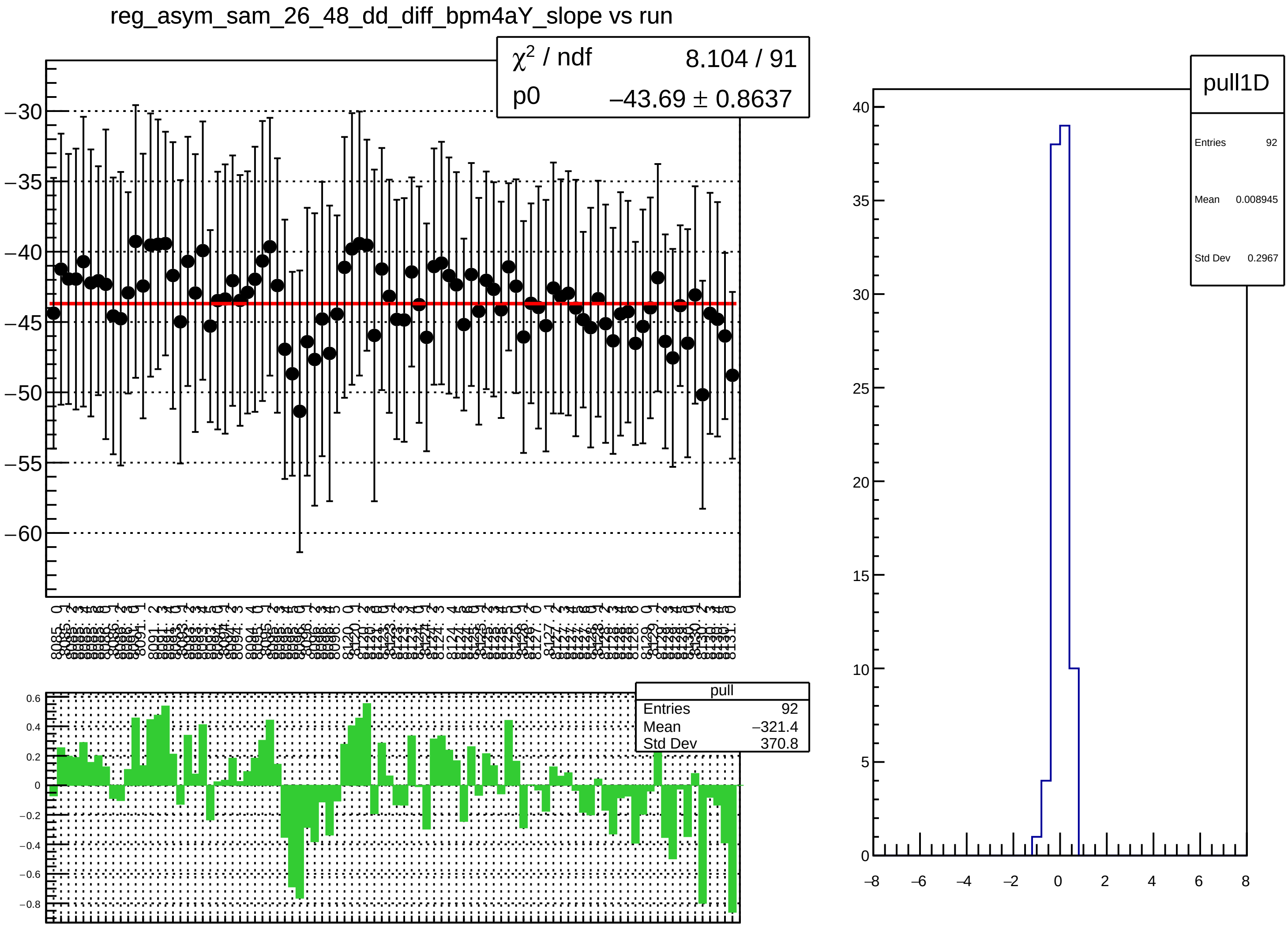
reg_asym_sam_24_68_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 4.796 / 91
p0 28.77 ± 3.73
pull
Entries 92
Mean −201.5
Std Dev 259.6
pull1D
Entries 92
Mean −0.007084
Std Dev 0.2282



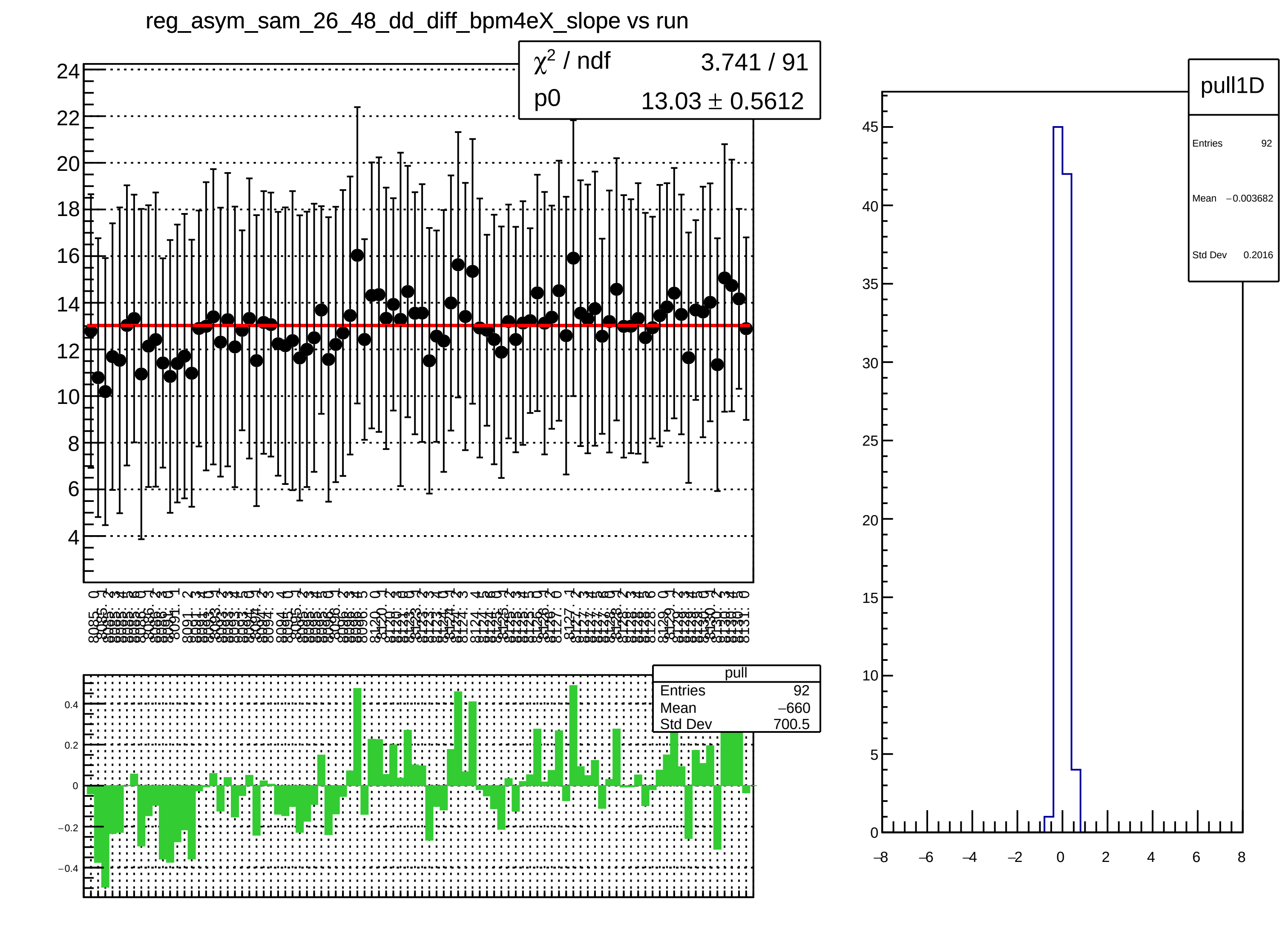
reg_asym_sam_24_68_dd_diff_bpm12X_slope vs run
χ2 / ndf 2.501 / 91
p0 1.061 ± 0.1425
pull
Entries 92
Mean −136.5
Std Dev 502.7
pull1D
Entries 92
Mean −0.0002109
Std Dev 0.1649



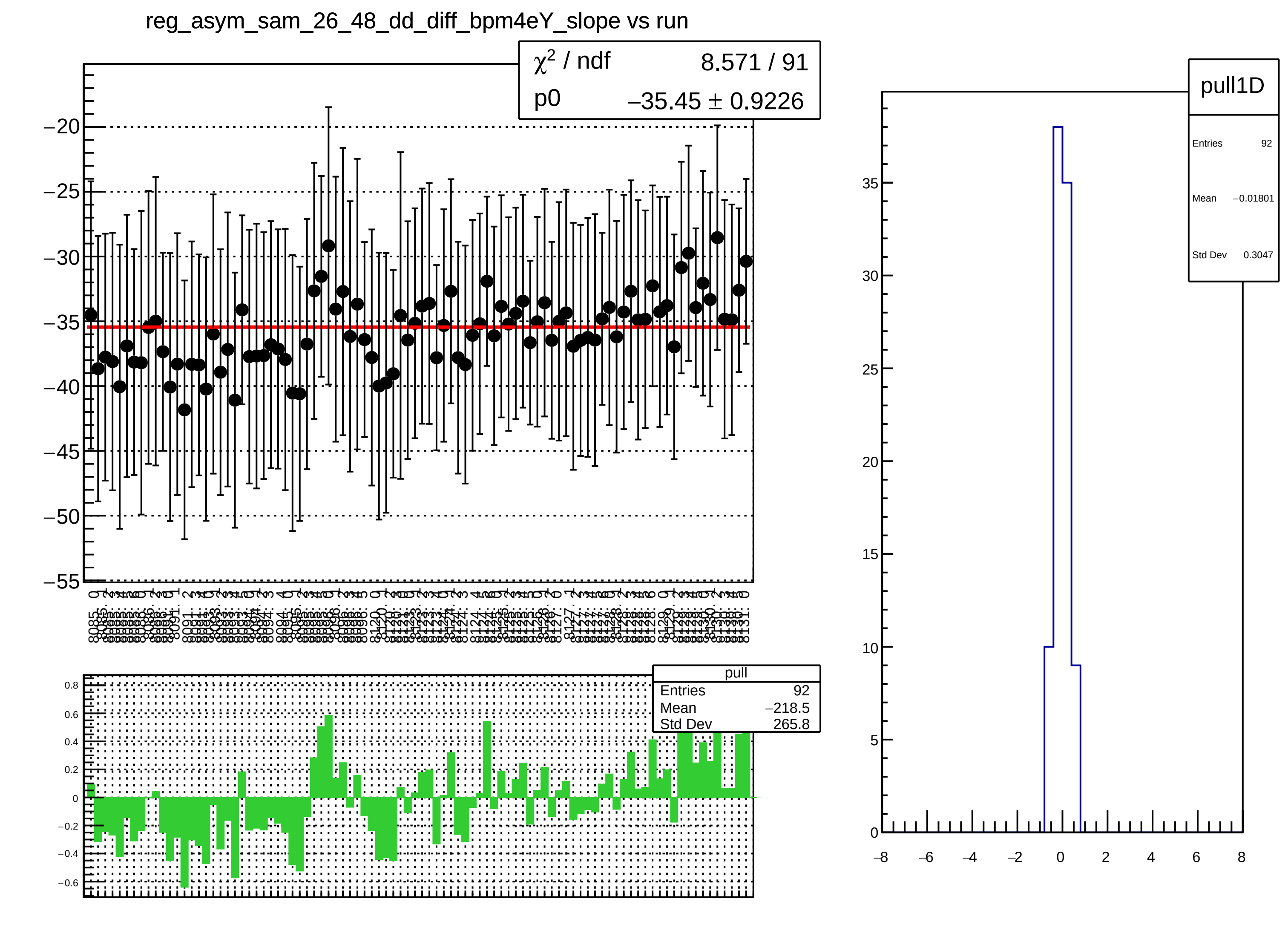
reg_asym_sam_26_48_dd_diff_bpm1X_slope vs run
χ^2 / ndf 2.747 / 91
p0 5.696 ± 0.591
pull
Entries 92
Mean 4116
Std Dev 4073
pull1D
Entries 92
Mean −0.0001932
Std Dev 0.1728



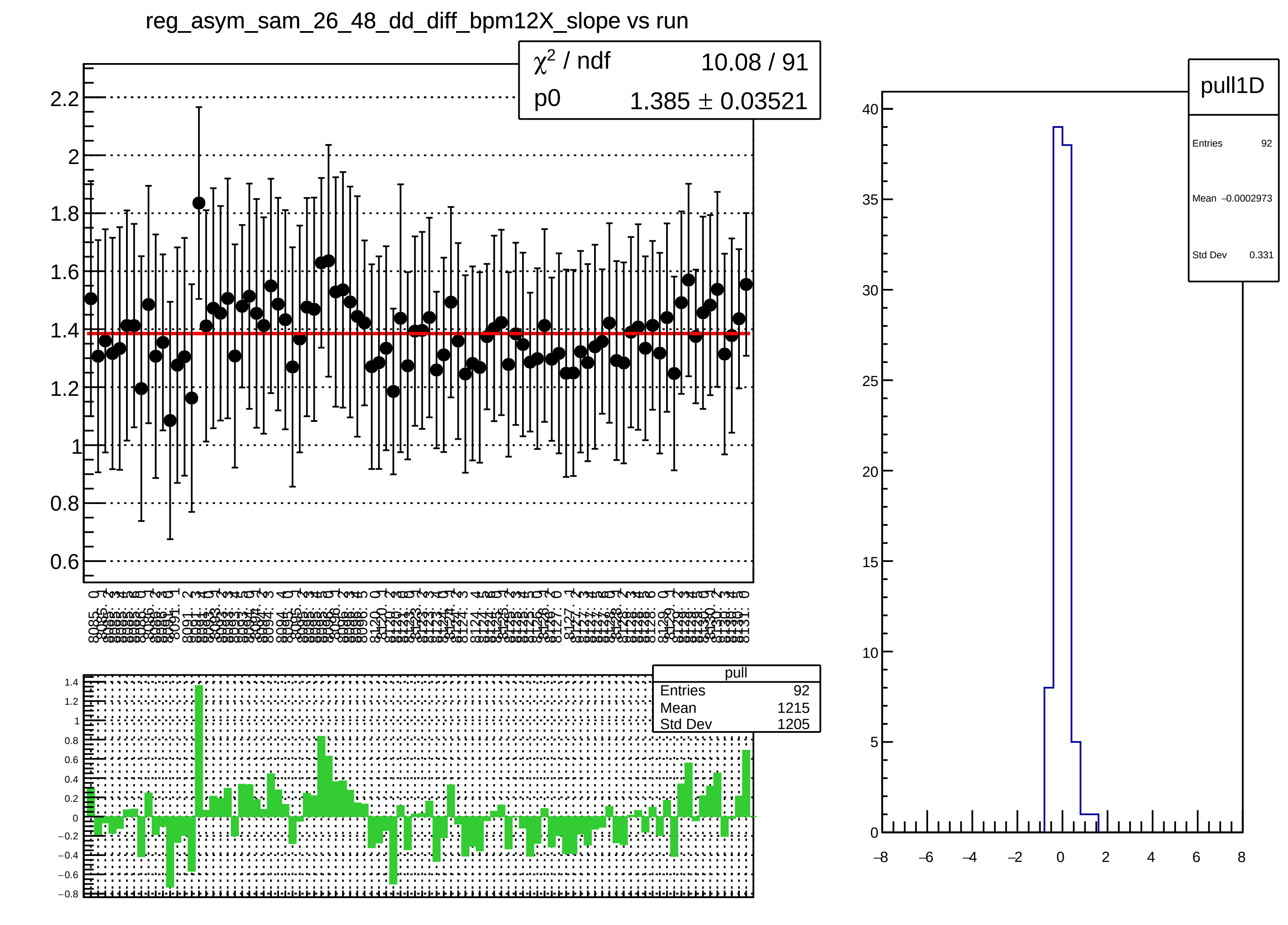
reg_asym_sam_26_48_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 8.104 / 91
p0 −43.69 ± 0.8637
pull
Entries 92
Mean −321.4
Std Dev 370.8
pull1D
Entries 92
Mean 0.008945
Std Dev 0.2967



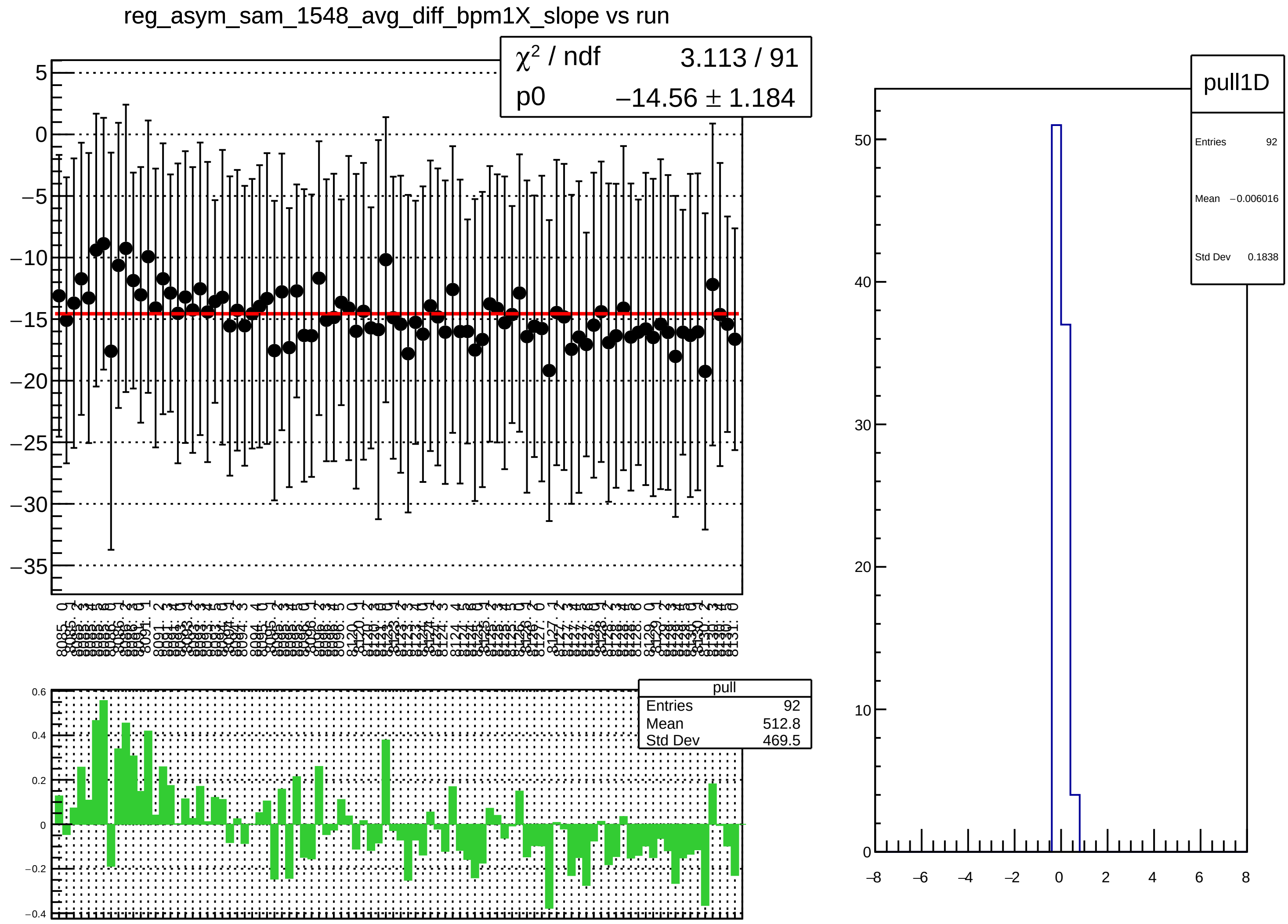
reg_asym_sam_26_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 3.741 / 91
p0 13.03 ± 0.5612
pull
Entries 92
Mean −660
Std Dev 700.5
pull1D
Entries 92
Mean −0.003682
Std Dev 0.2016



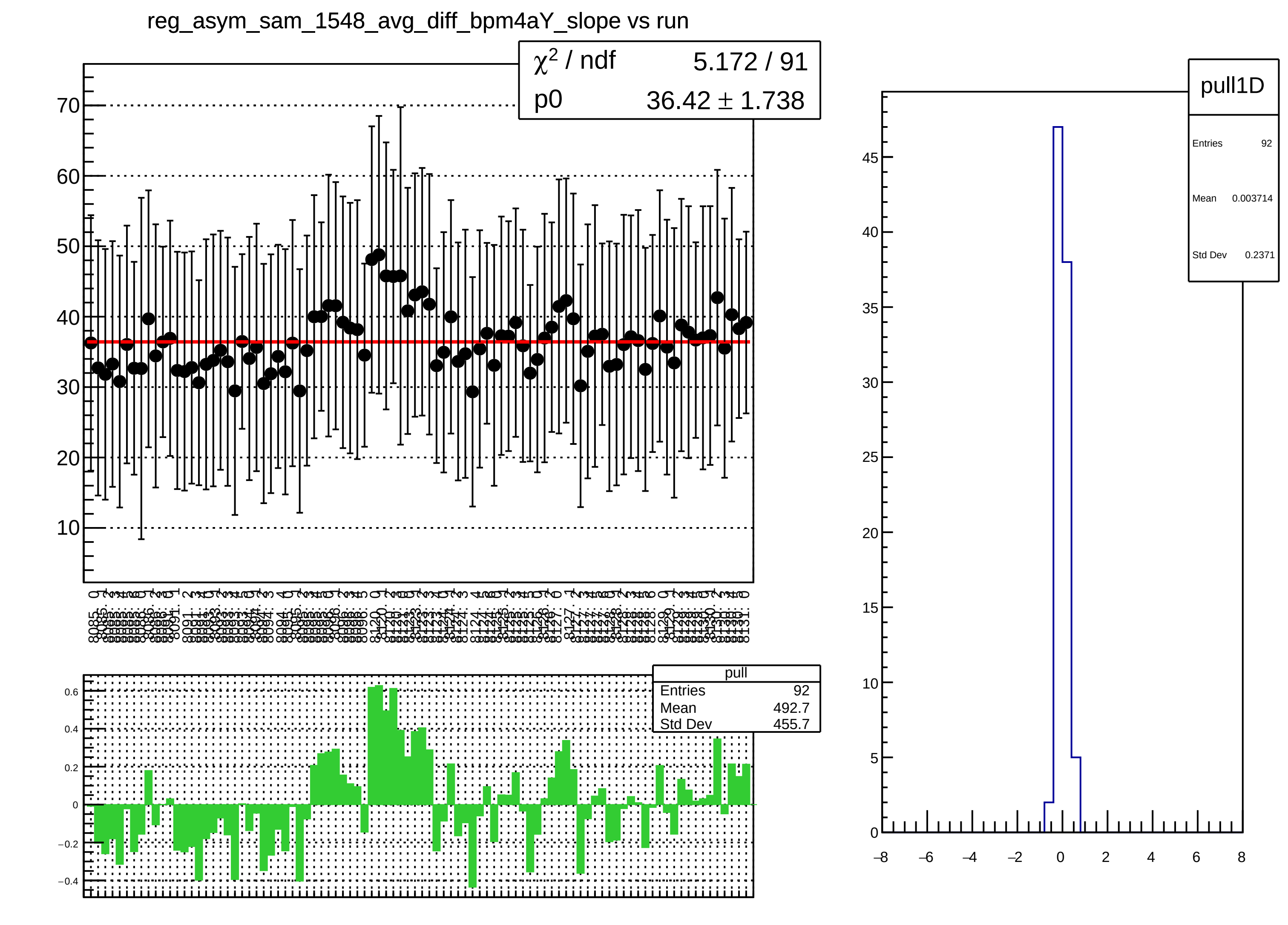
reg_asym_sam_26_48_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 8.571 / 91
p0 −35.45 ± 0.9226
pull
Entries 92
Mean −218.5
Std Dev 265.8
pull1D
Entries 92
Mean −0.01801
Std Dev 0.3047



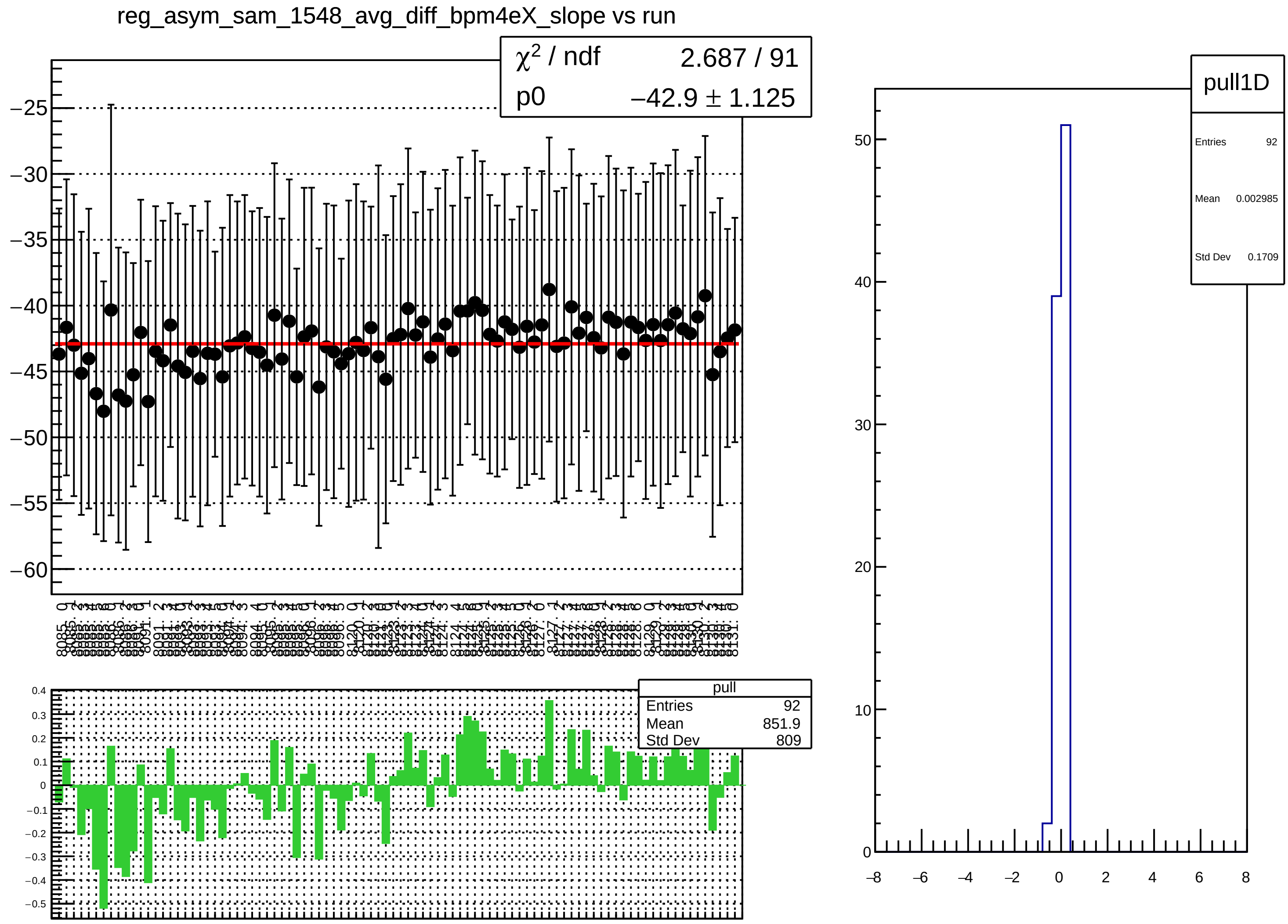
reg_asym_sam_26_48_dd_diff_bpm12X_slope vs run
χ2 / ndf 10.08 / 91
p0 1.385 ± 0.03521
pull
Entries 92
Mean 1215
Std Dev 1205
pull1D
Entries 92
Mean −0.0002973
Std Dev 0.331

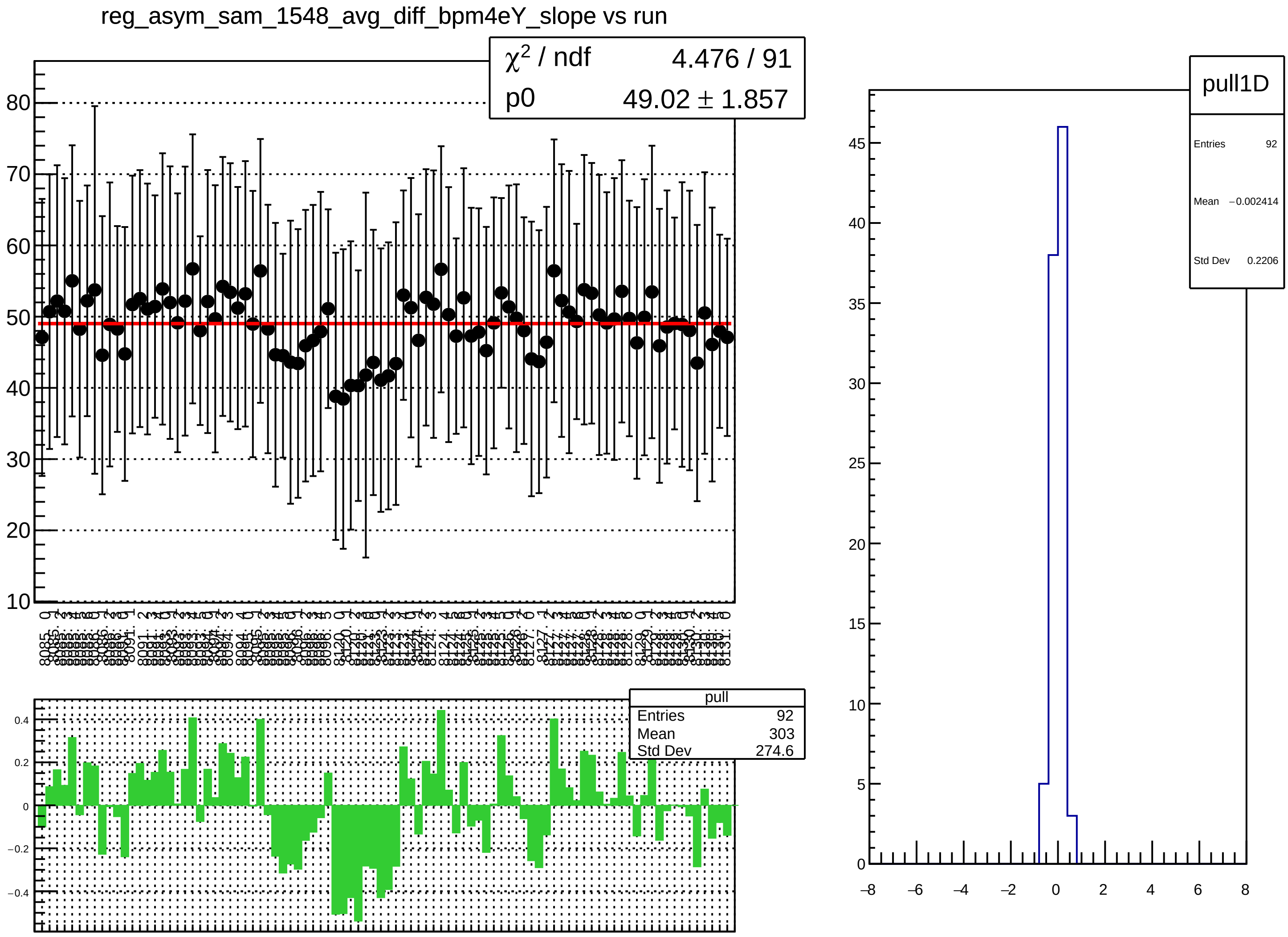


reg_asym_sam_1548_avg_diff_bpm1X_slope vs run
χ^2 / ndf 3.113 / 91
p0 −14.56 ± 1.184
pull
Entries 92
Mean 512.8
Std Dev 469.5
pull1D
Entries 92
Mean −0.006016
Std Dev 0.1838

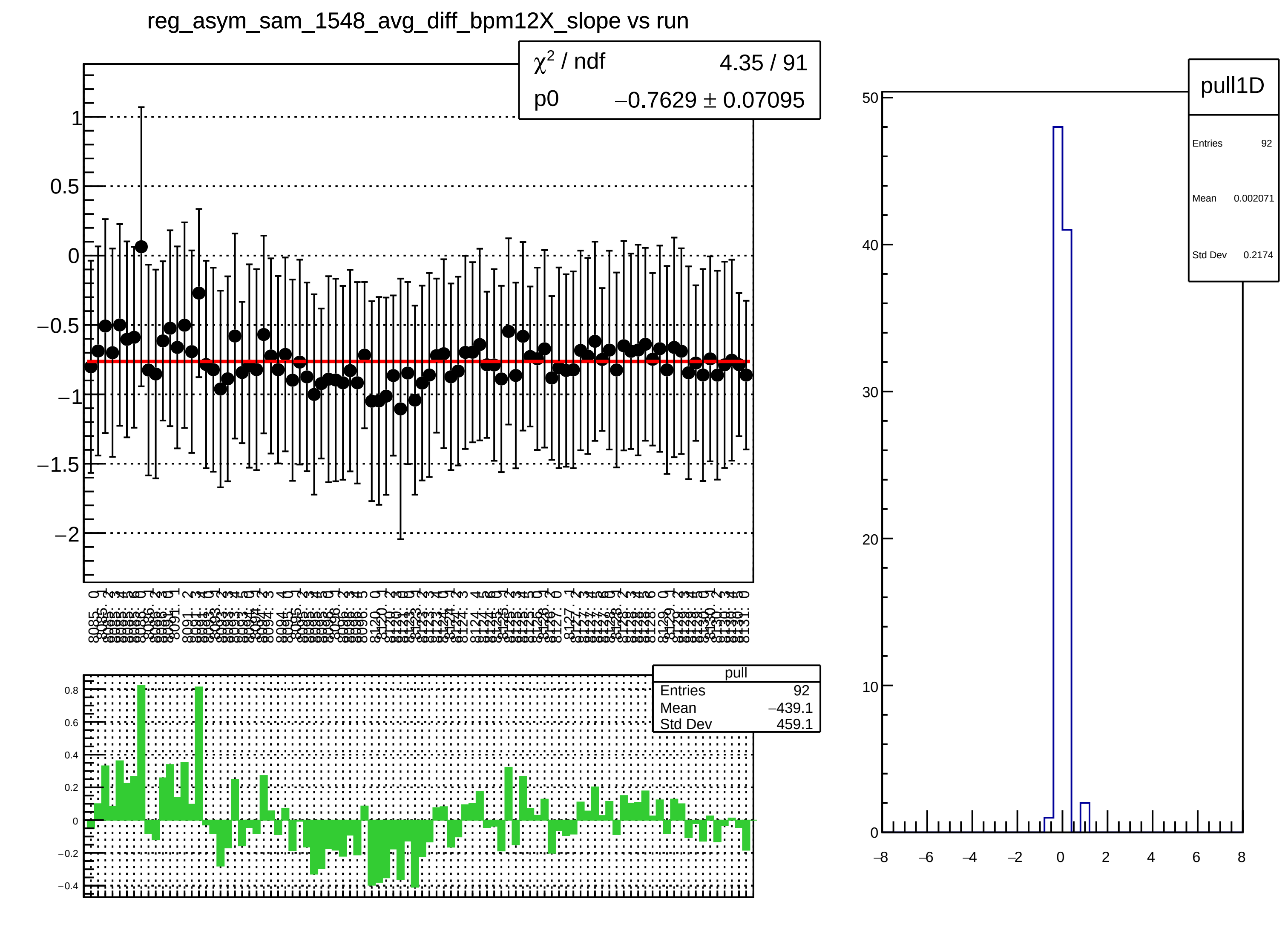


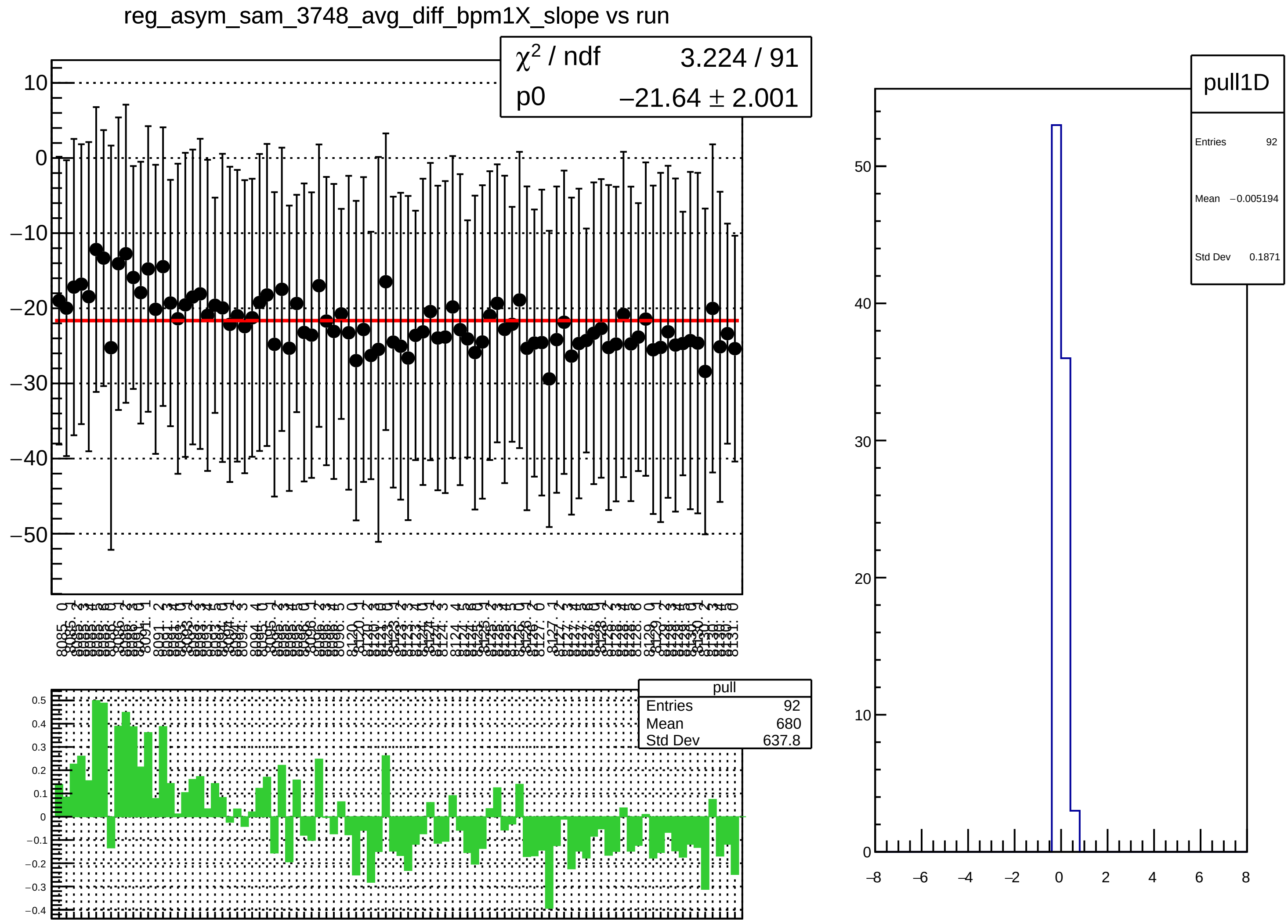
reg_asym_sam_1548_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.172 / 91
p0 36.42 ± 1.738
pull
Entries 92
Mean 492.7
Std Dev 455.7
pull1D
Entries 92
Mean 0.003714
Std Dev 0.2371


reg_asym_sam_1548_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 2.687 / 91
p0 −42.9 ± 1.125
pull
Entries 92
Mean 851.9
Std Dev 809
pull1D
Entries 92
Mean 0.002985
Std Dev 0.1709

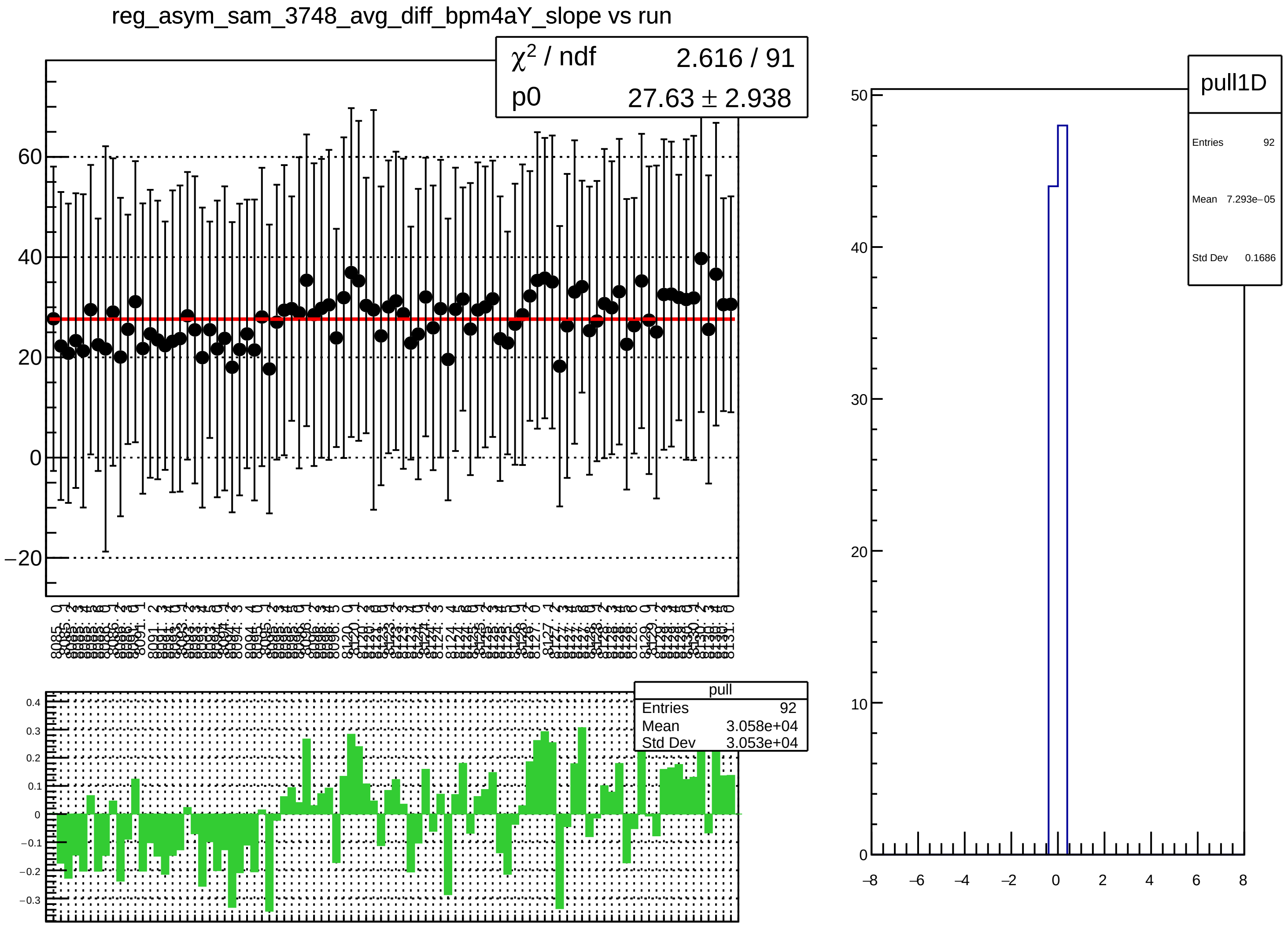


reg_asym_sam_1548_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 4.476 / 91
p0 49.02 ± 1.857
pull
Entries 92
Mean 303
Std Dev 274.6
pull1D
Entries 92
Mean −0.002414
Std Dev 0.2206

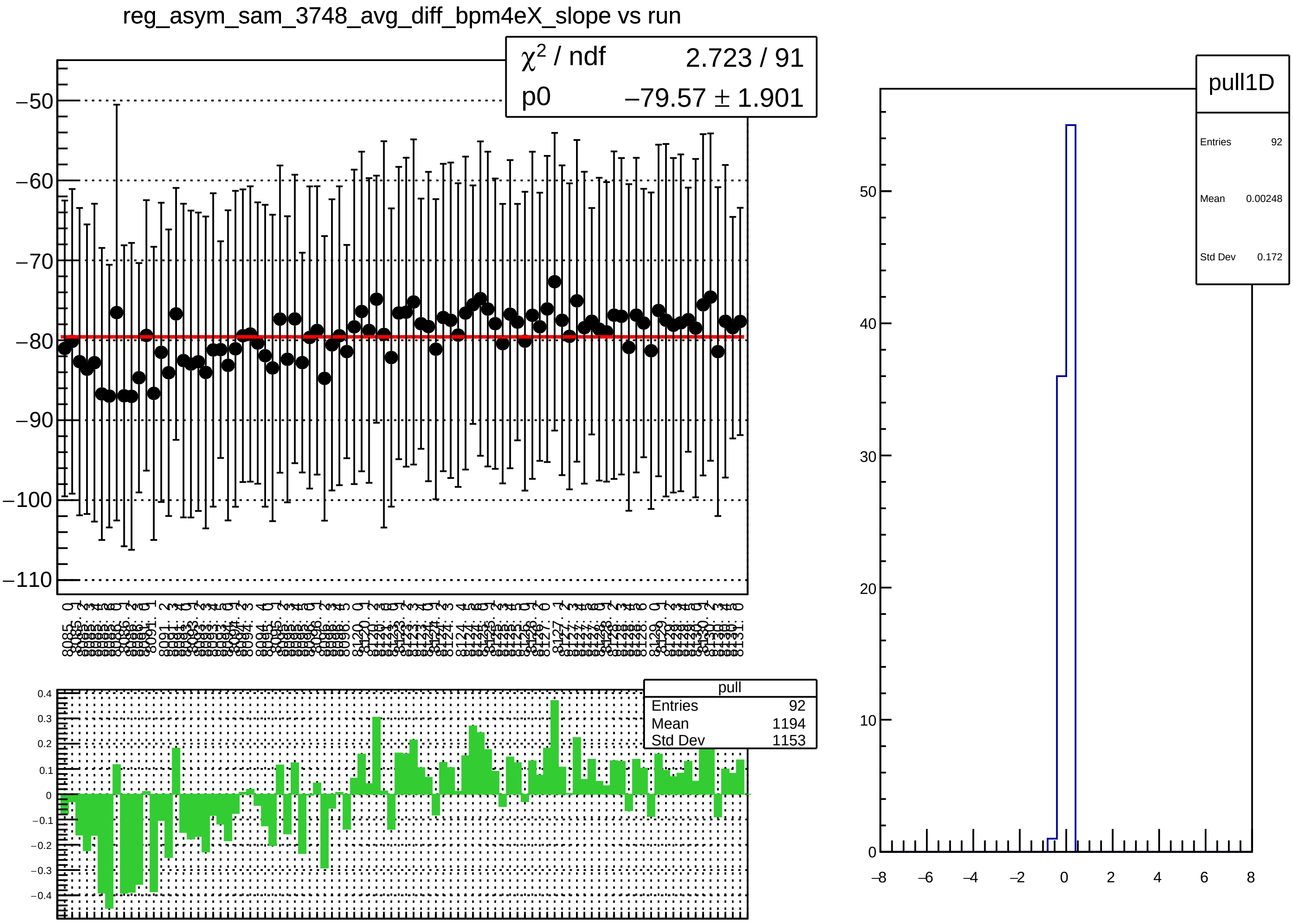

reg_asym_sam_1548_avg_diff_bpm12X_slope vs run
χ^2 / ndf 4.35 / 91
p0 −0.7629 ± 0.07095
pull
Entries 92
Mean −439.1
Std Dev 459.1
pull1D
Entries 92
Mean 0.002071
Std Dev 0.2174



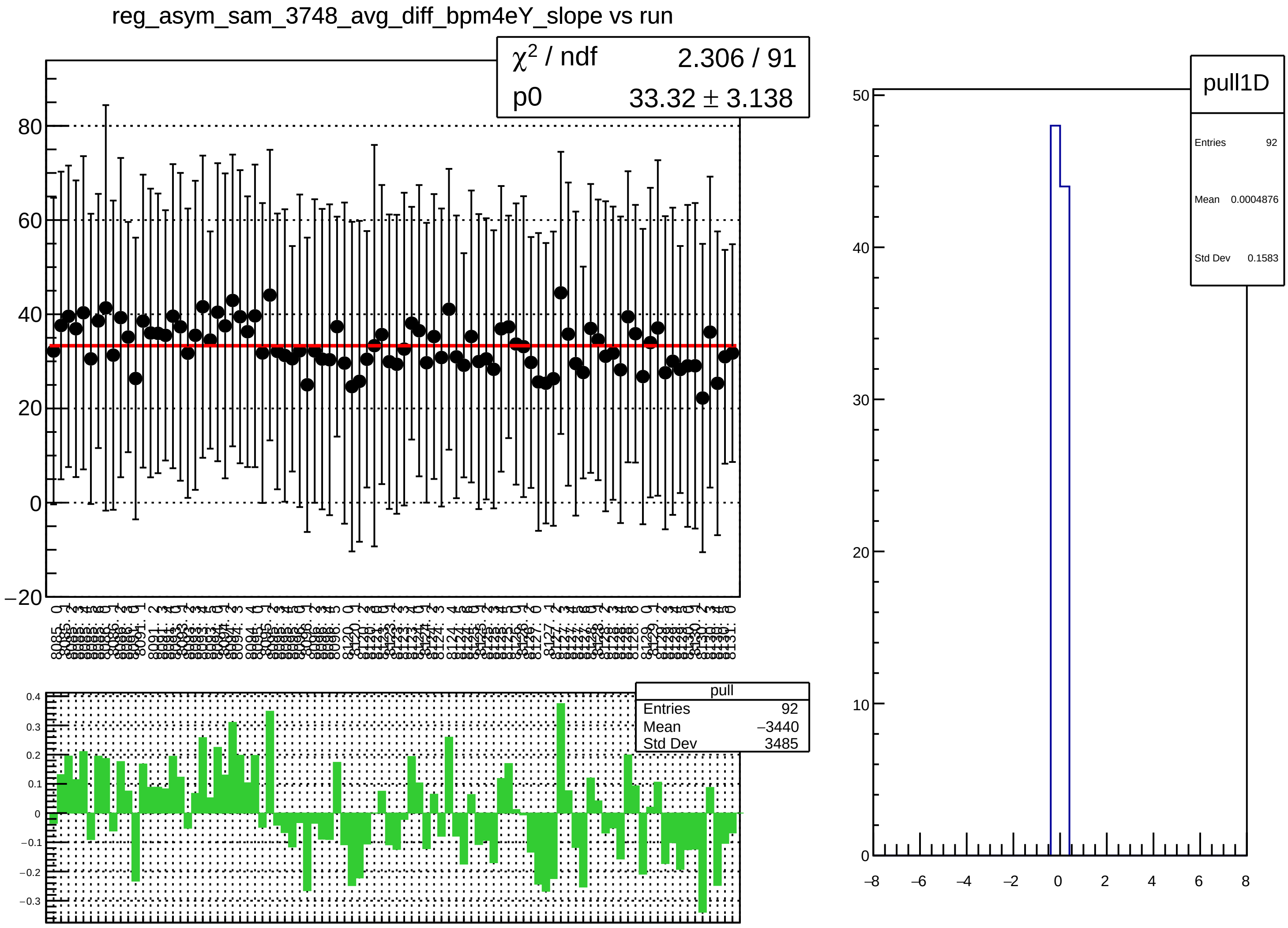
reg_asym_sam_3748_avg_diff_bpm1X_slope vs run
χ^2 / ndf 3.224 / 91
p0 −21.64 ± 2.001
10
0
−10
−20
−30
−40
−50
pull
Entries 92
Mean 680
Std Dev 637.8
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 92
Mean −0.005194
Std Dev 0.1871
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8



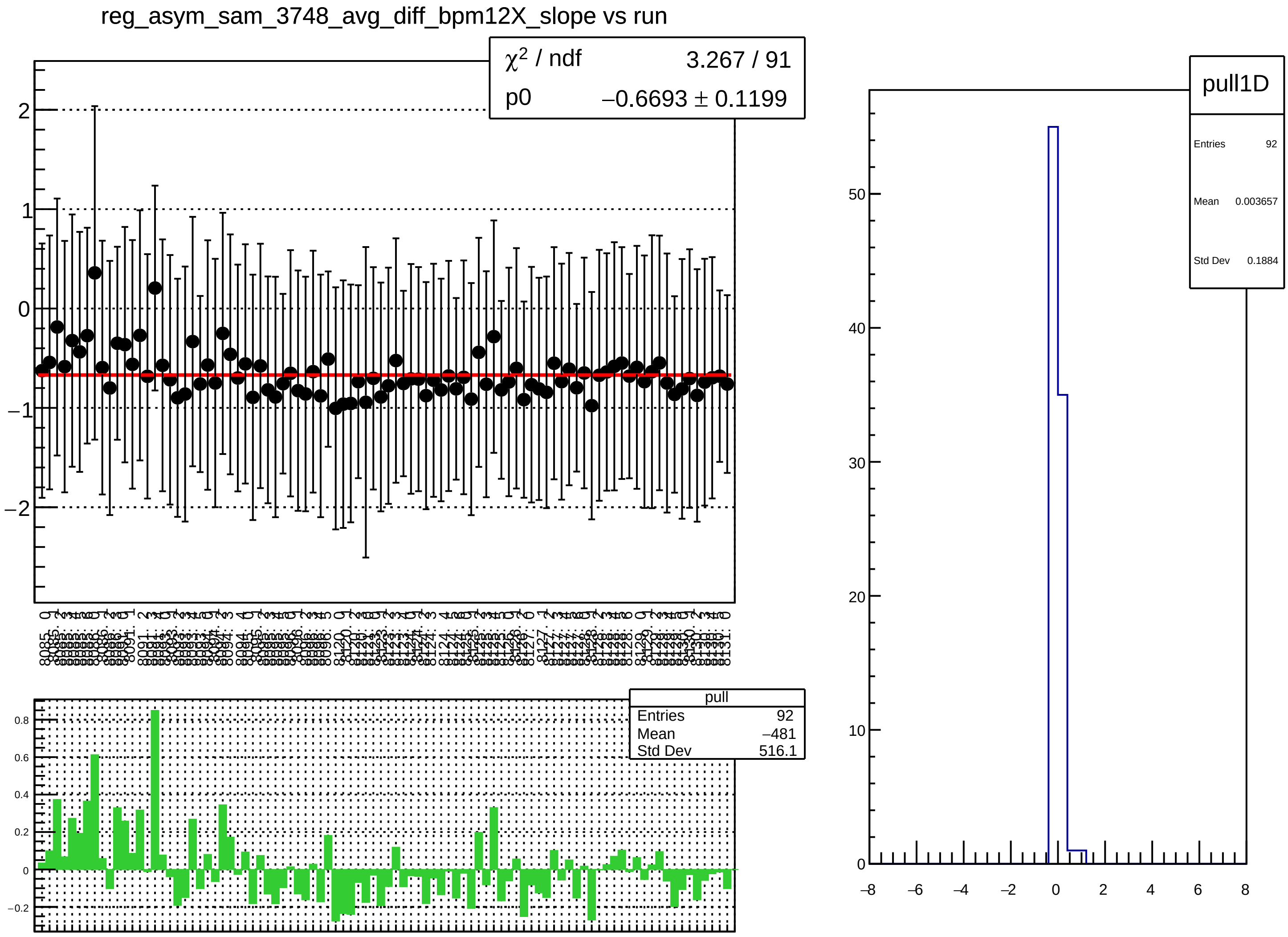
reg_asym_sam_3748_avg_diff_bpm4aY_slope vs run
χ2 / ndf 2.616 / 91
p0 27.63 ± 2.938
pull1D
Entries 92
Mean 7.293e−05
Std Dev 0.1686
pull
Entries 92
Mean 3.058e+04
Std Dev 3.053e+04



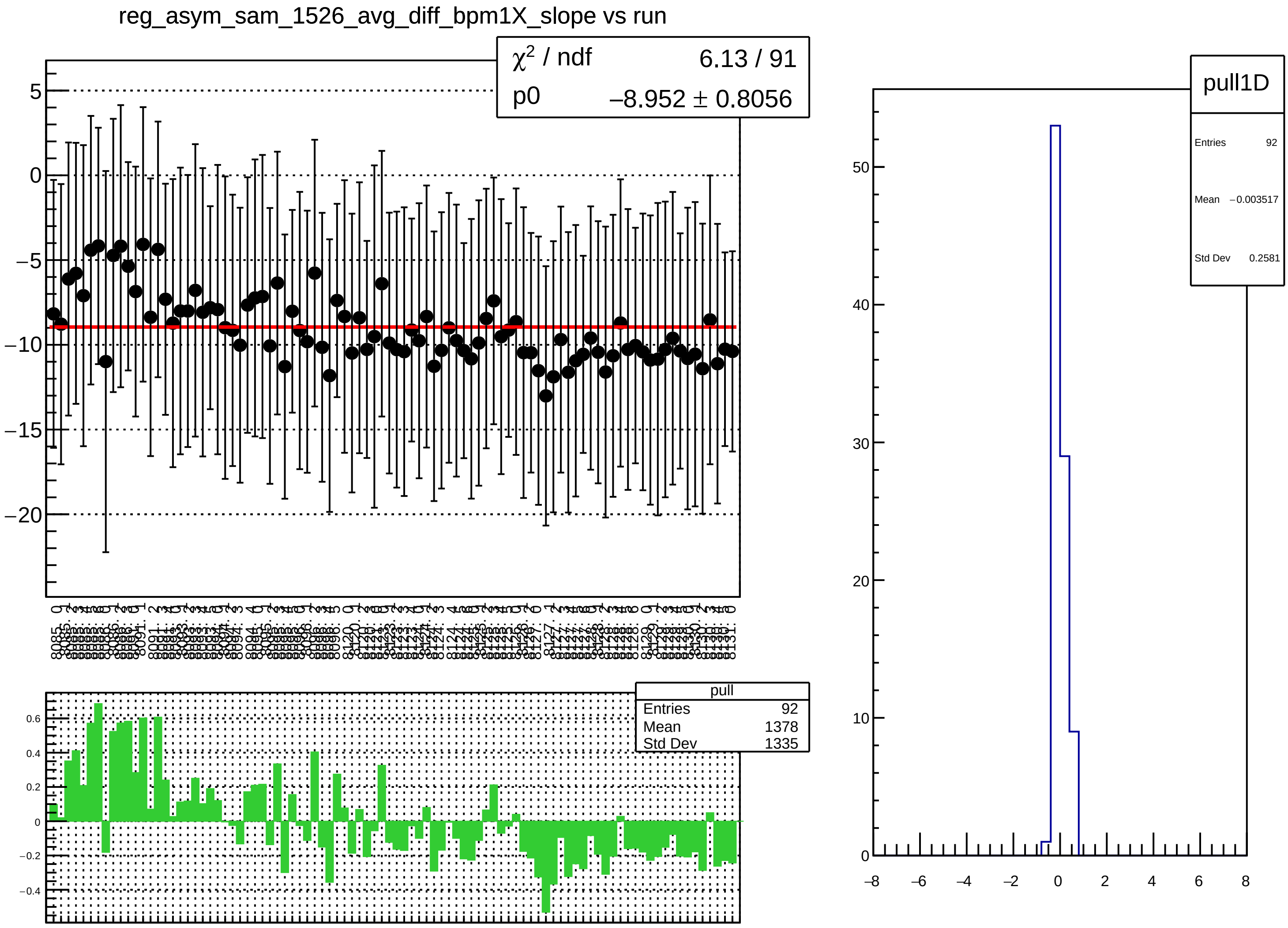
reg_asym_sam_3748_avg_diff_bpm4eX_slope vs run
χ2 / ndf 2.723 / 91
p0 −79.57 ± 1.901
pull
Entries 92
Mean 1194
Std Dev 1153
pull1D
Entries 92
Mean 0.00248
Std Dev 0.172



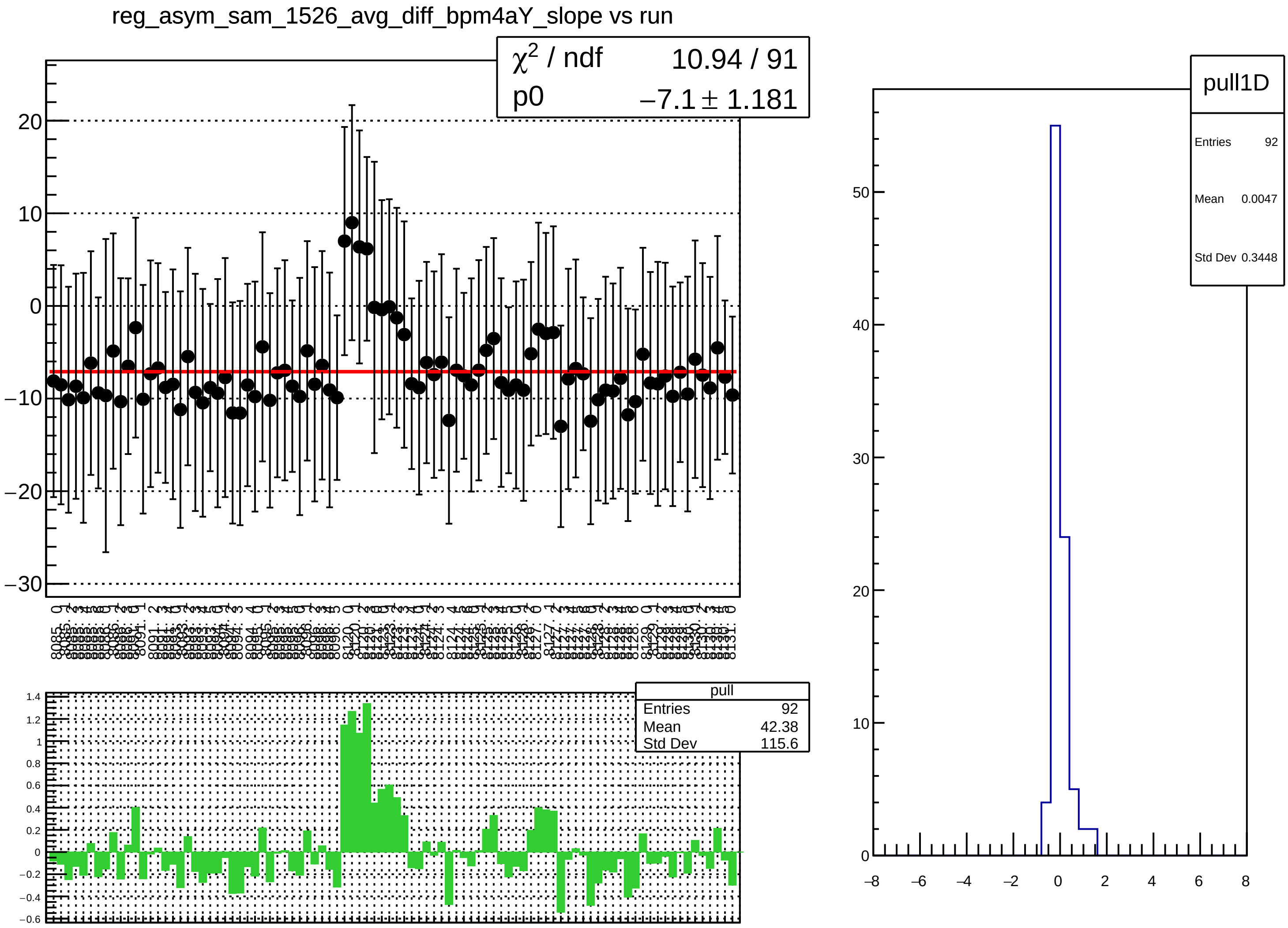
reg_asym_sam_3748_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.306 / 91
p0 33.32 ± 3.138
pull
Entries 92
Mean −3440
Std Dev 3485
pull1D
Entries 92
Mean 0.0004876
Std Dev 0.1583



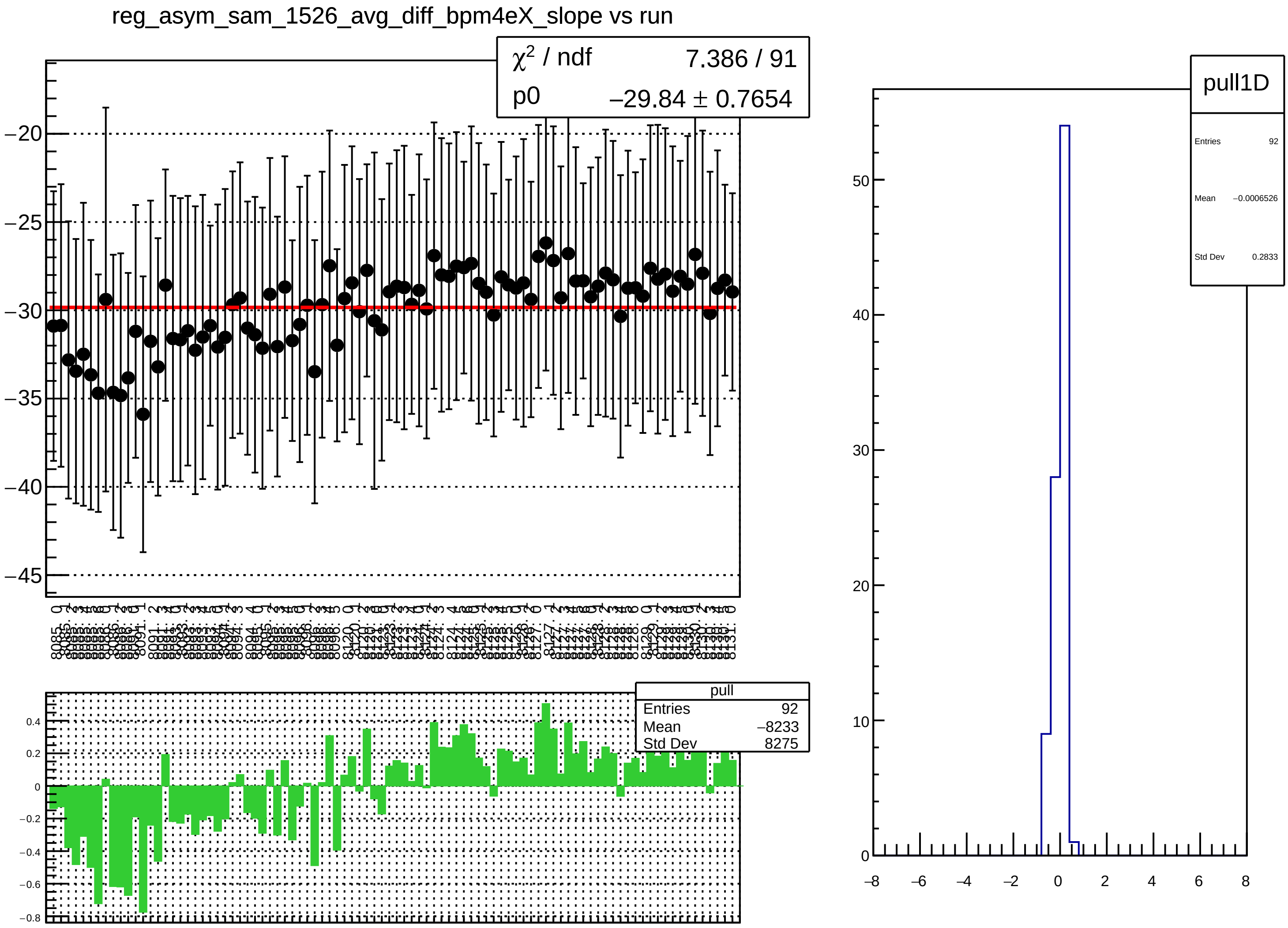
reg_asym_sam_3748_avg_diff_bpm12X_slope vs run
χ^2 / ndf 3.267 / 91
p0 −0.6693 ± 0.1199
pull
Entries 92
Mean −481
Std Dev 516.1
pull1D
Entries 92
Mean 0.003657
Std Dev 0.1884



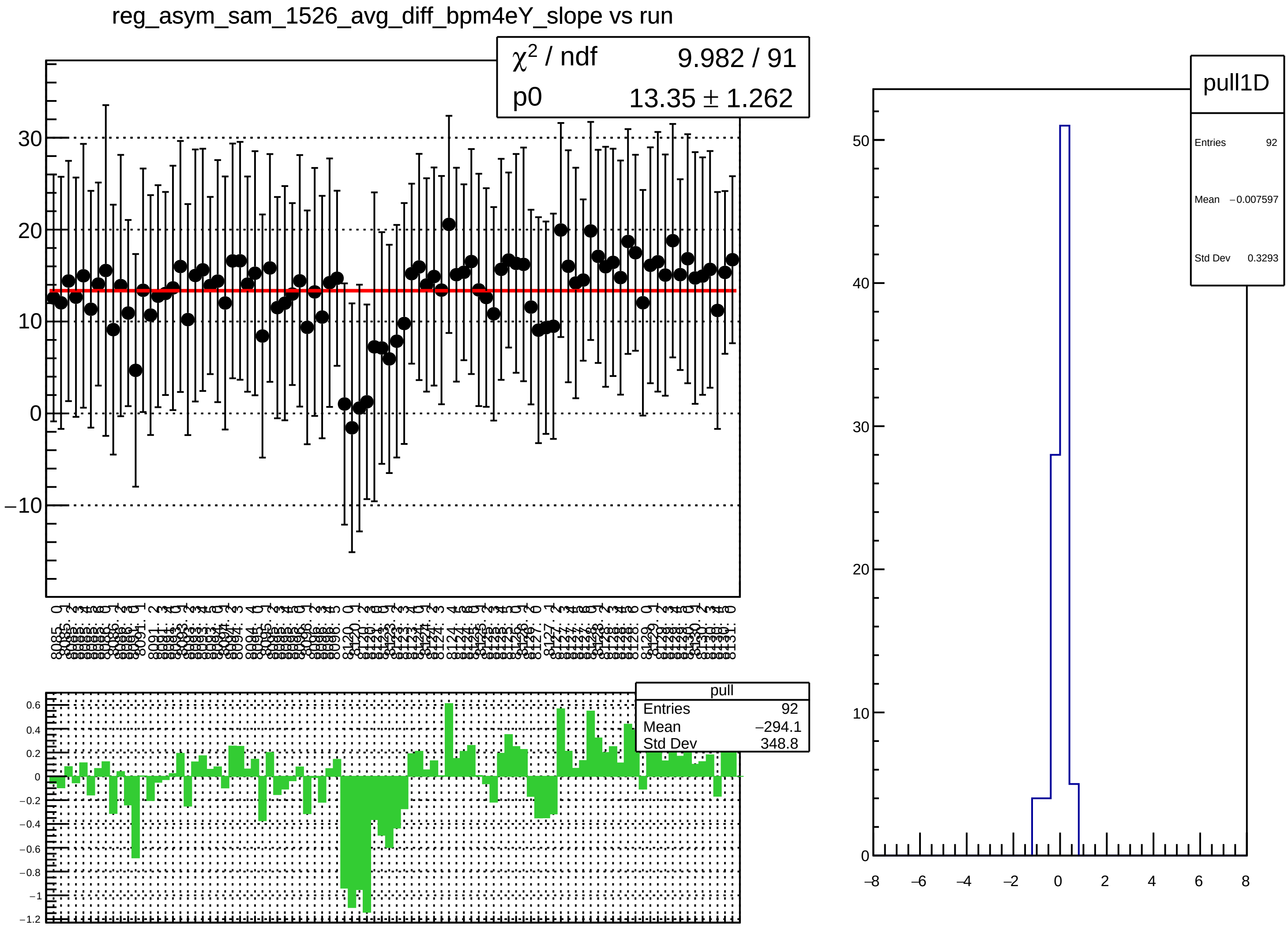
reg_asym_sam_1526_avg_diff_bpm1X_slope vs run
χ^2 / ndf 6.13 / 91
p0 −8.952 ± 0.8056
pull
Entries 92
Mean 1378
Std Dev 1335
pull1D
Entries 92
Mean −0.003517
Std Dev 0.2581



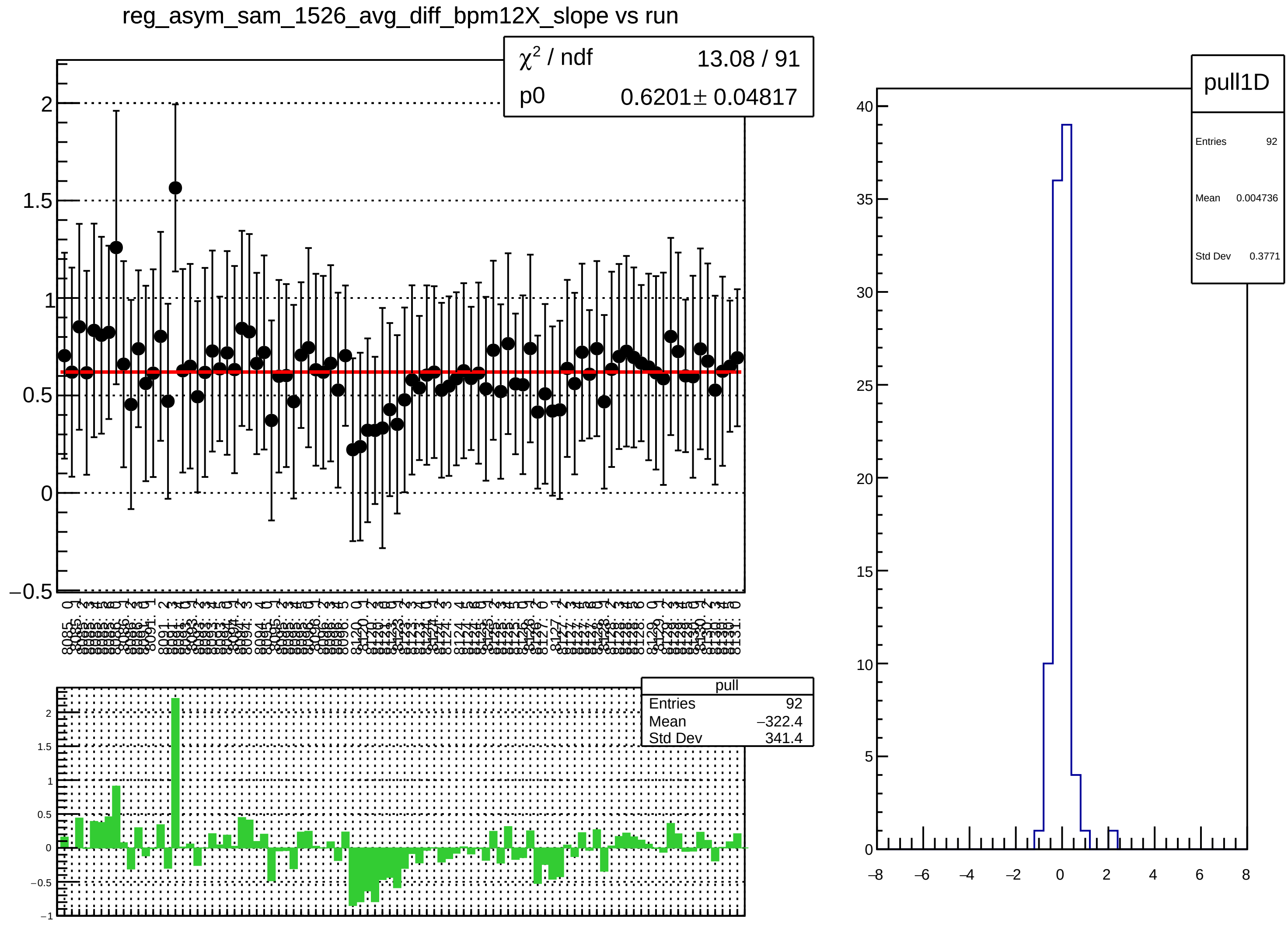
reg_asym_sam_1526_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 10.94 / 91
p0 −7.1 ± 1.181
pull
Entries 92
Mean 42.38
Std Dev 115.6
pull1D
Entries 92
Mean 0.0047
Std Dev 0.3448



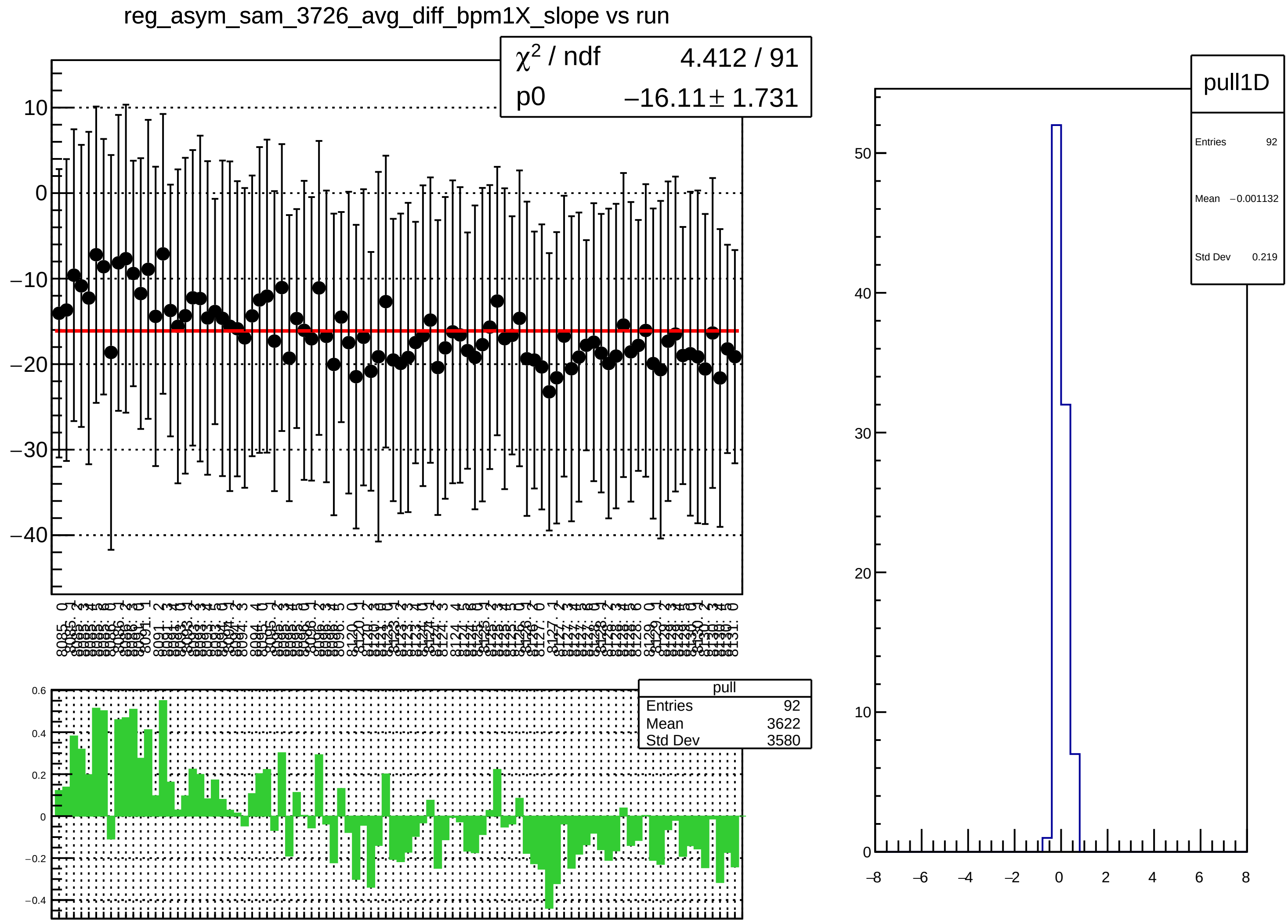
reg_asym_sam_1526_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 7.386 / 91
p0 −29.84 ± 0.7654
pull
Entries 92
Mean −8233
Std Dev 8275
pull1D
Entries 92
Mean −0.0006526
Std Dev 0.2833



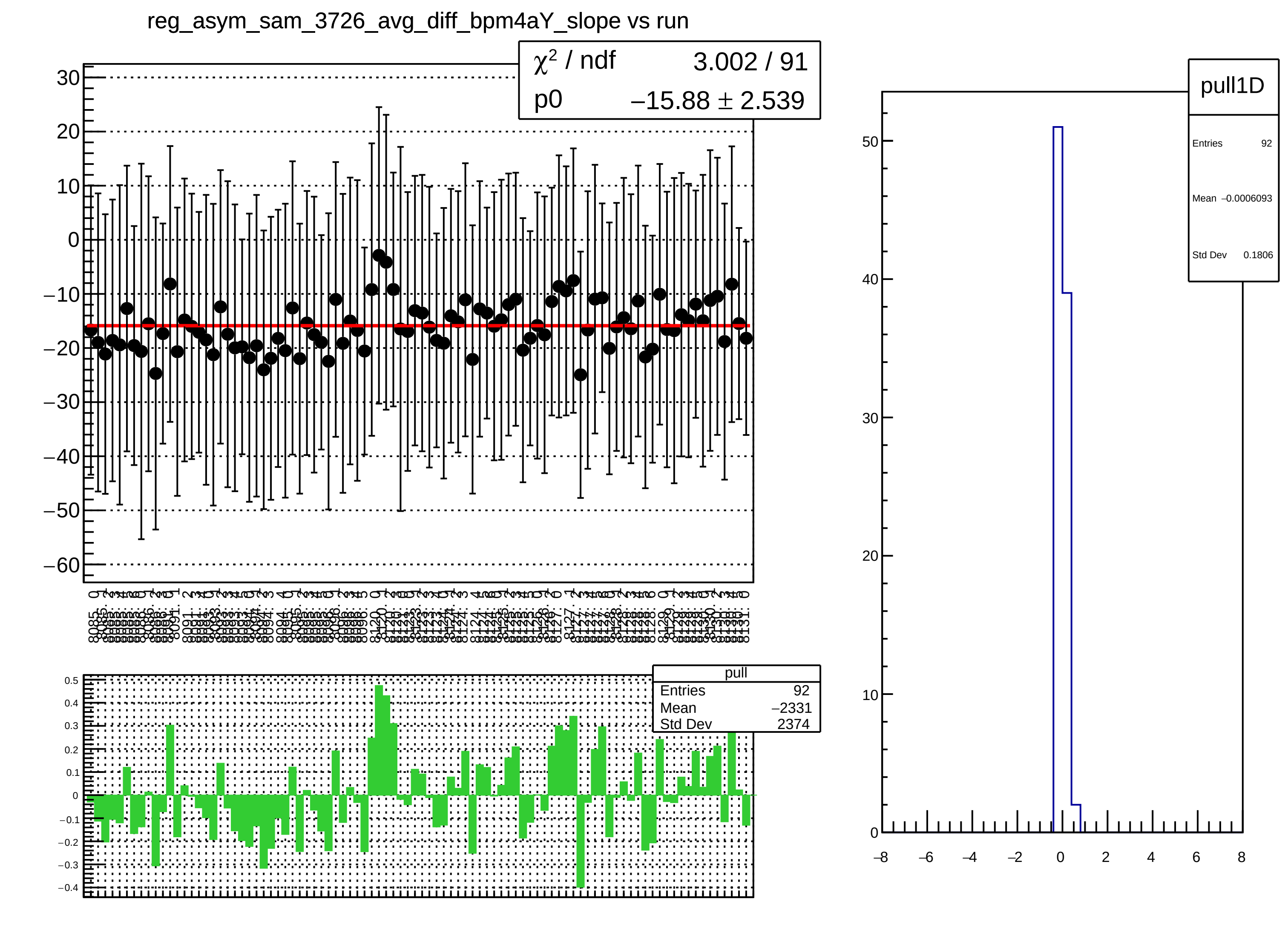
reg_asym_sam_1526_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 9.982 / 91
p0 13.35 ± 1.262
pull
Entries 92
Mean −294.1
Std Dev 348.8
pull1D
Entries 92
Mean −0.007597
Std Dev 0.3293



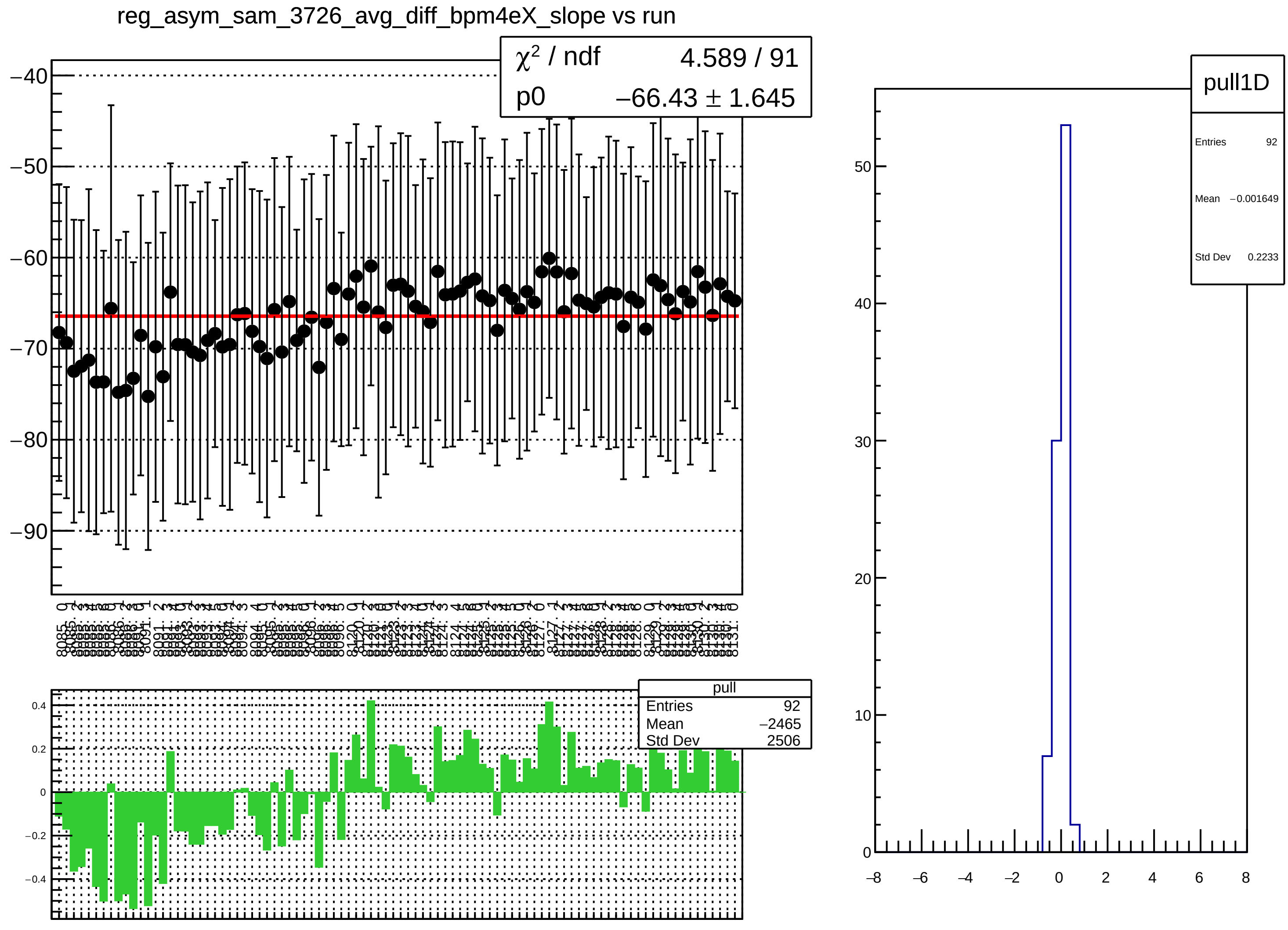
reg_asym_sam_1526_avg_diff_bpm12X_slope vs run
χ^2 / ndf 13.08 / 91
p0 0.6201 ± 0.04817
pull
Entries 92
Mean −322.4
Std Dev 341.4
pull1D
Entries 92
Mean 0.004736
Std Dev 0.3771



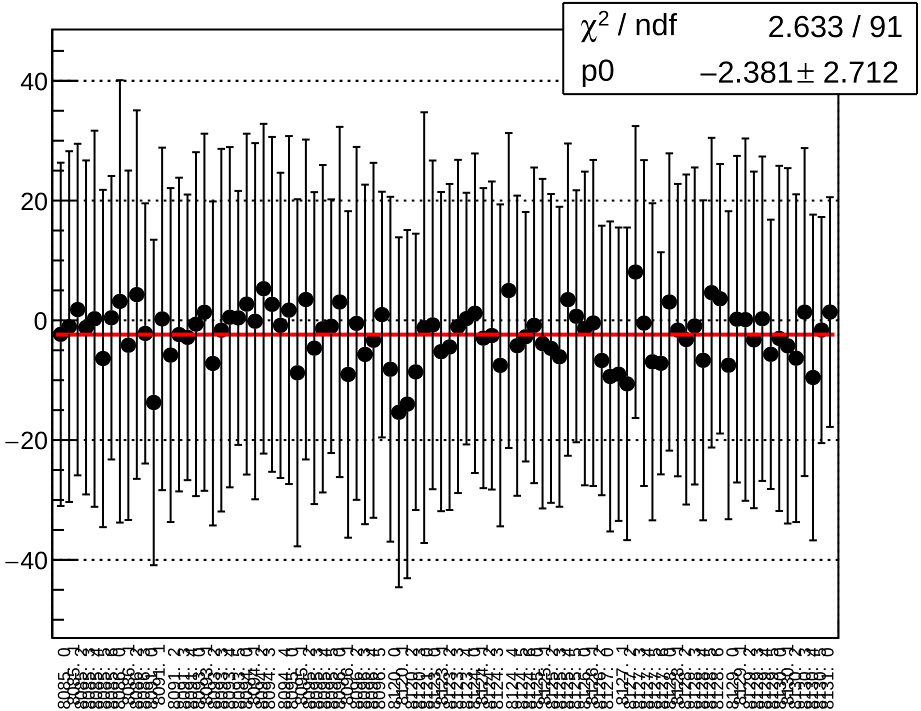
reg_asym_sam_3726_avg_diff_bpm1X_slope vs run
χ2 / ndf 4.412 / 91
p0 −16.11 ± 1.731
pull
Entries 92
Mean 3622
Std Dev 3580
pull1D
Entries 92
Mean −0.001132
Std Dev 0.219

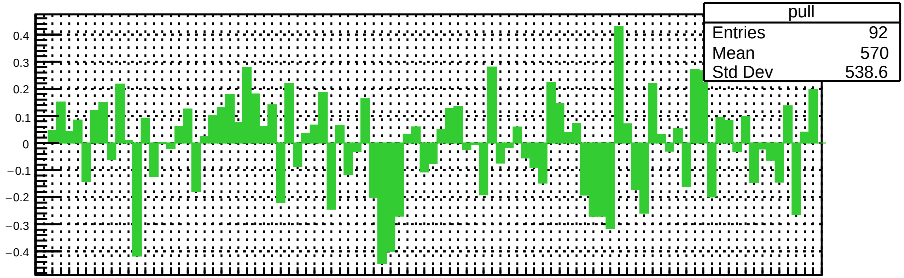


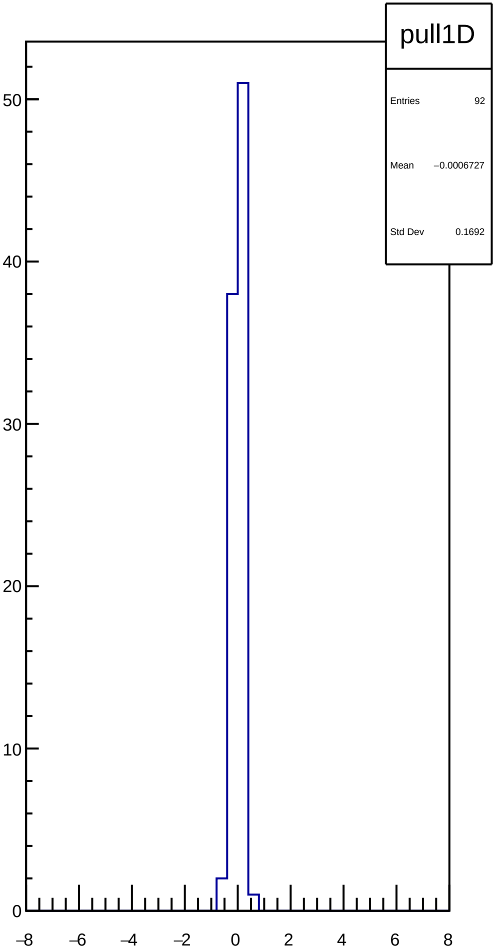
reg_asym_sam_3726_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 3.002 / 91
p0 −15.88 ± 2.539
pull
Entries 92
Mean −2331
Std Dev 2374
pull1D
Entries 92
Mean −0.0006093
Std Dev 0.1806

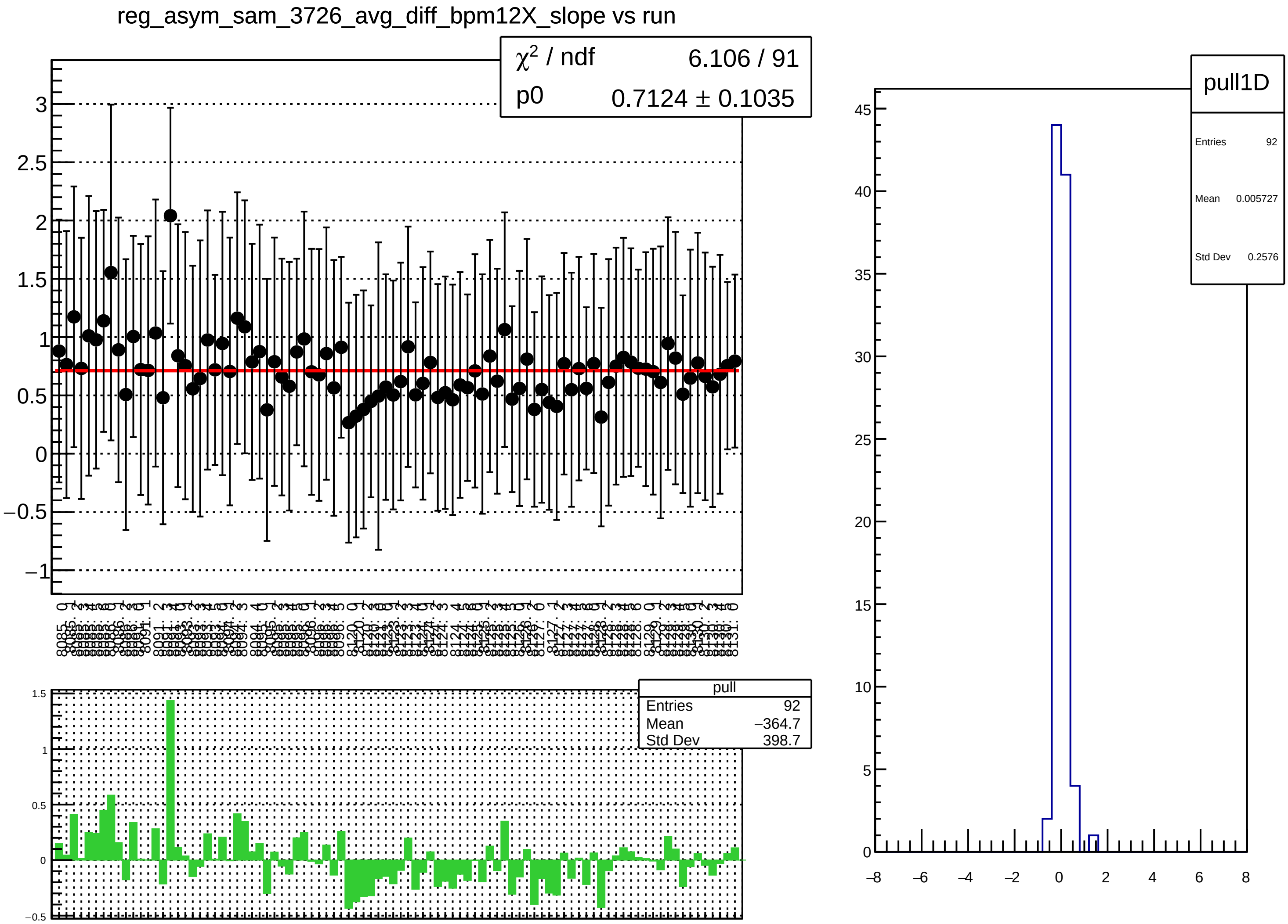

reg_asym_sam_3726_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 4.589 / 91
p0 −66.43 ± 1.645
−40
−50
−60
−70
−80
−90
pull
Entries 92
Mean −2465
Std Dev 2506
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean −0.001649
Std Dev 0.2233
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

reg_asym_sam_3726_avg_diff_bpm4eY_slope vs run

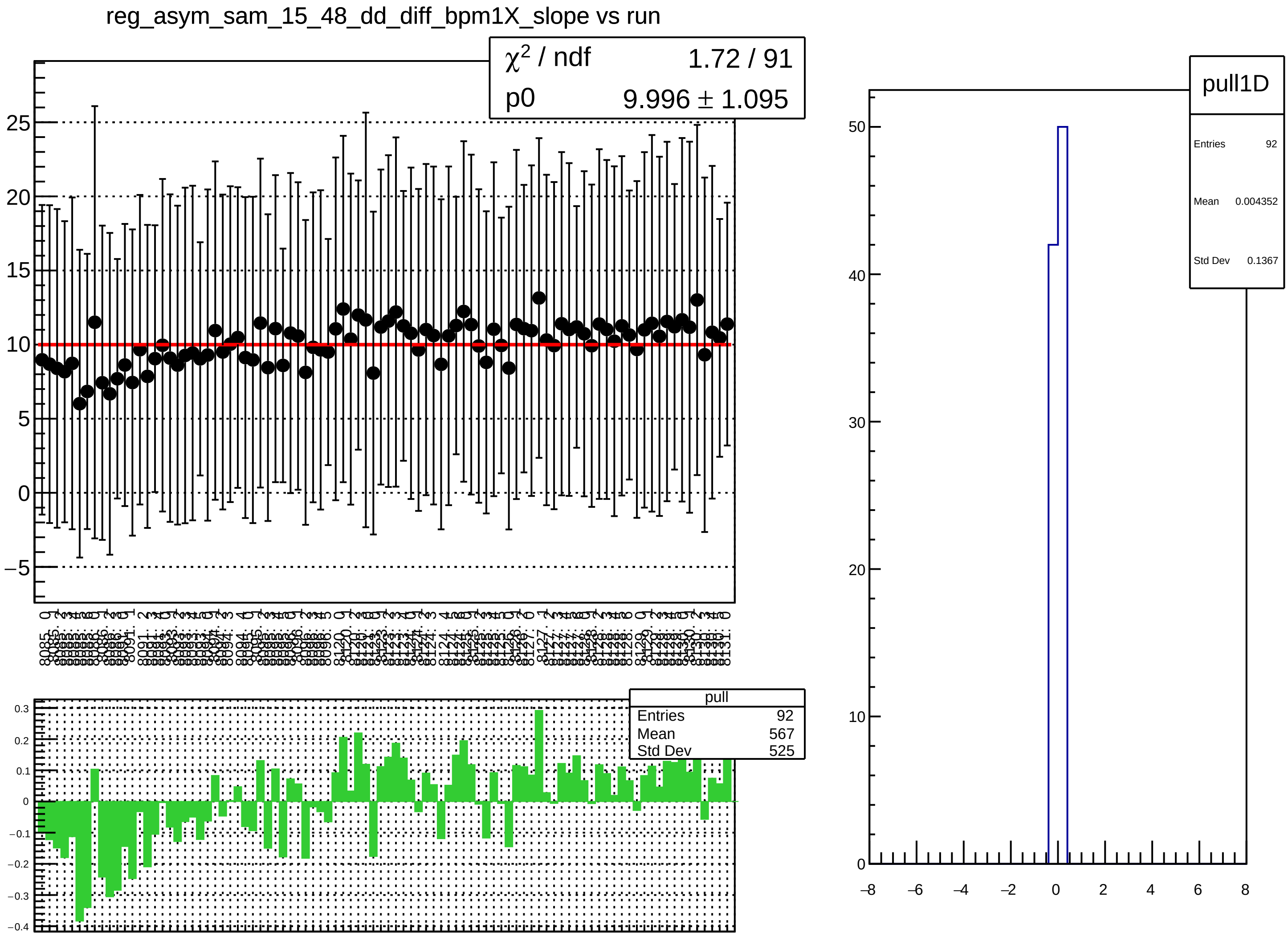




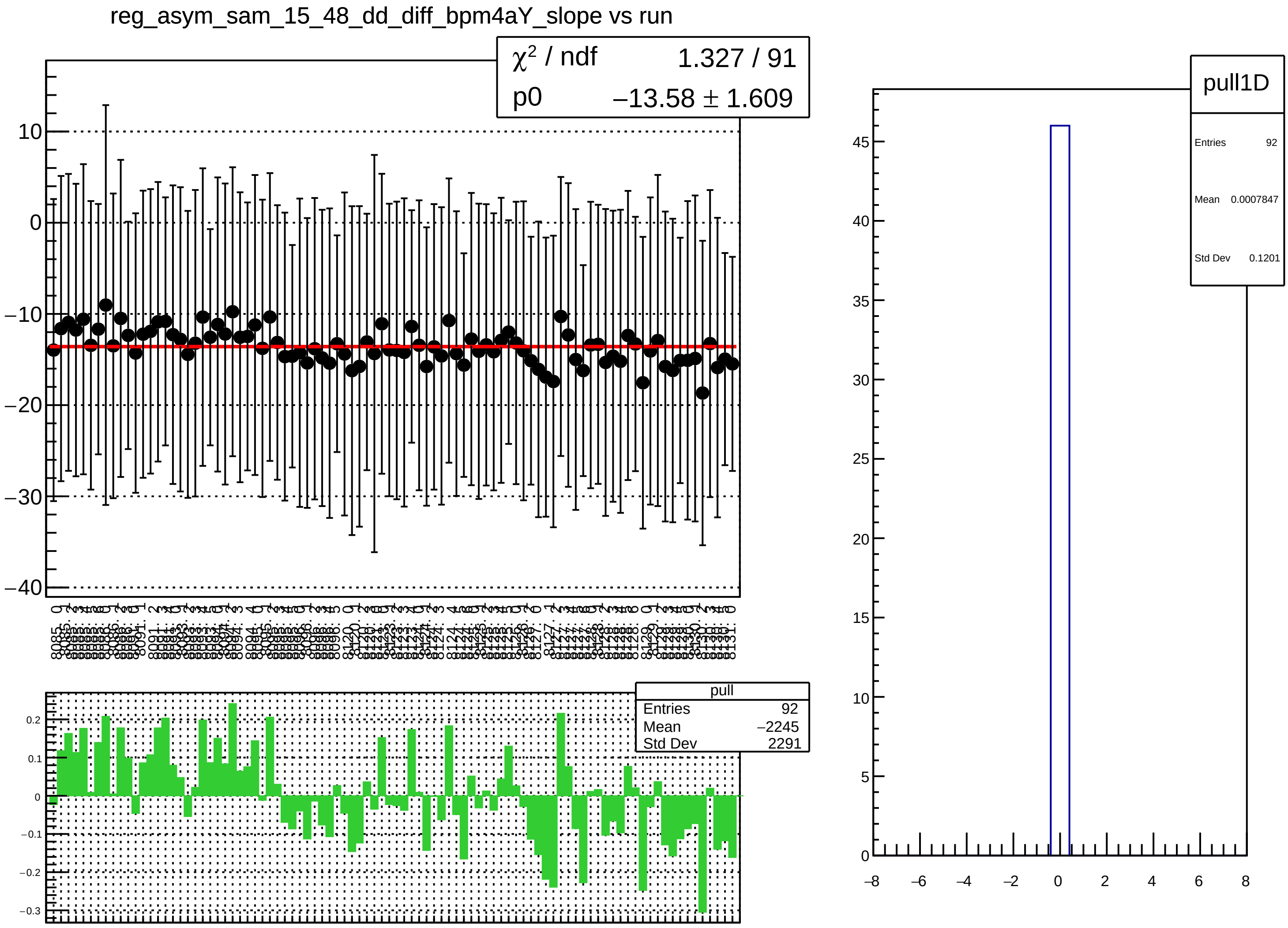




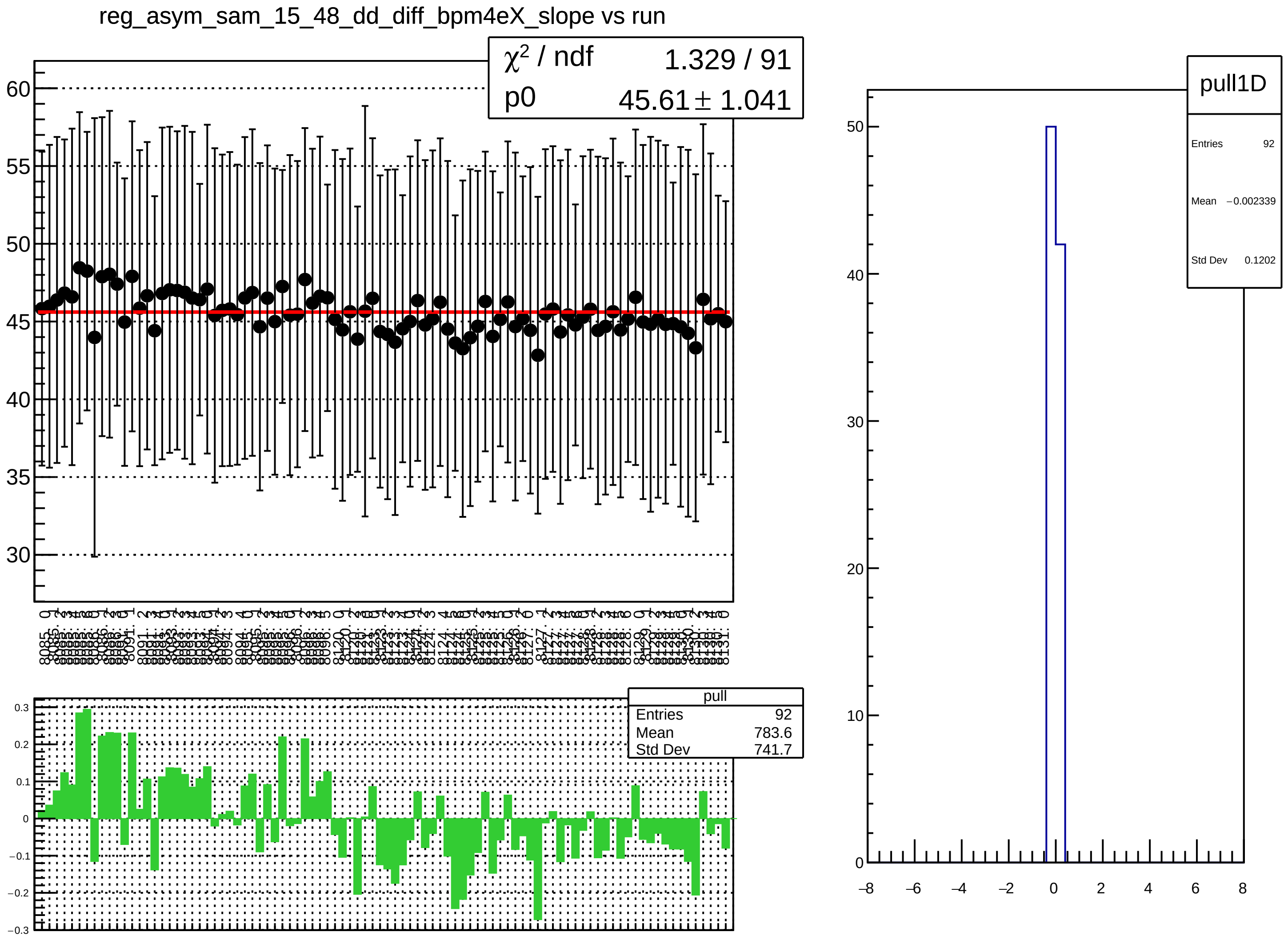
reg_asym_sam_3726_avg_diff_bpm12X_slope vs run
χ^2 / ndf 6.106 / 91
p0 0.7124 ± 0.1035
pull
Entries 92
Mean −364.7
Std Dev 398.7
pull1D
Entries 92
Mean 0.005727
Std Dev 0.2576



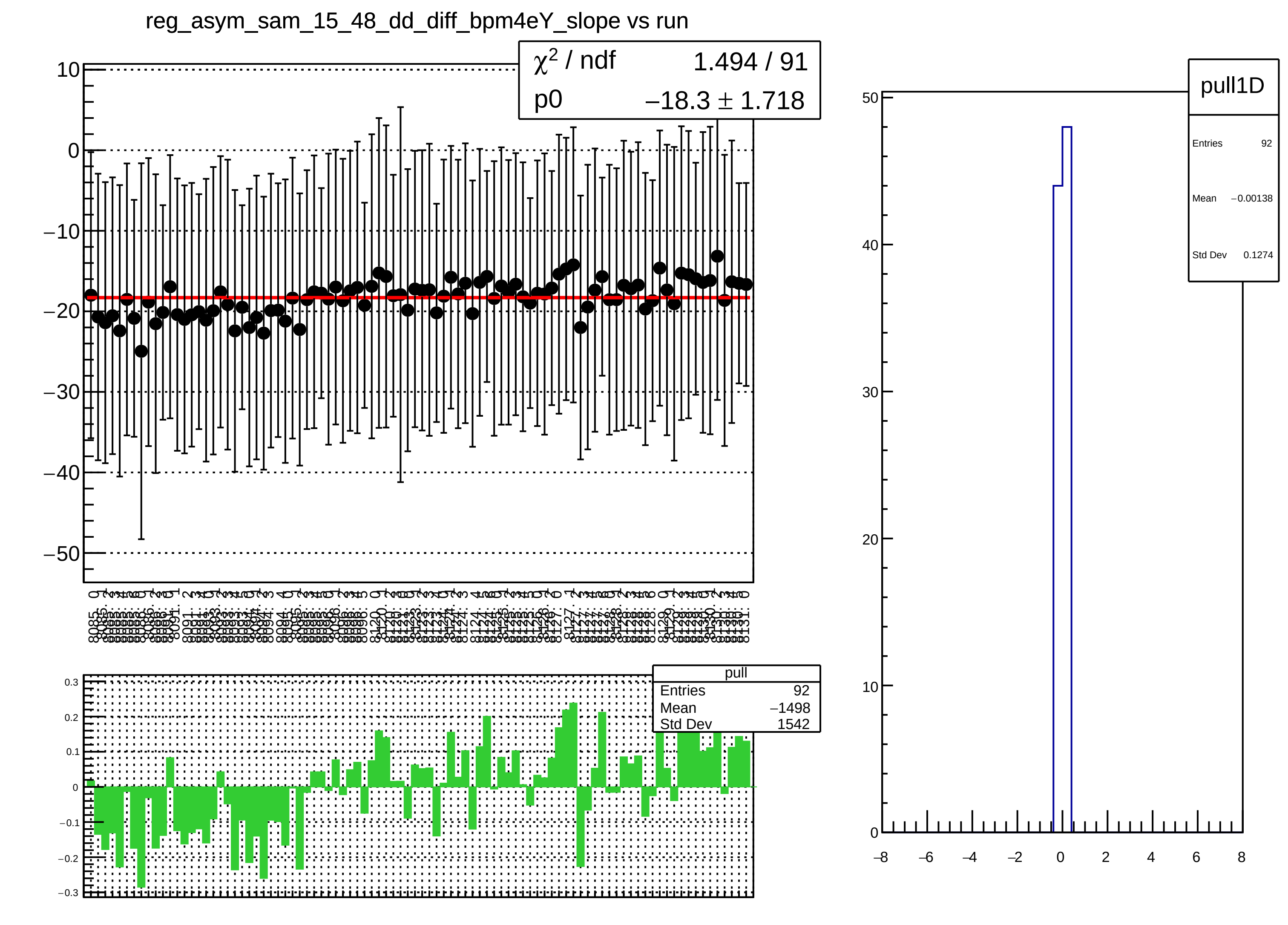
reg_asym_sam_15_48_dd_diff_bpm1X_slope vs run
χ^2 / ndf 1.72 / 91
p0 9.996 ± 1.095
pull
Entries 92
Mean 567
Std Dev 525
pull1D
Entries 92
Mean 0.004352
Std Dev 0.1367



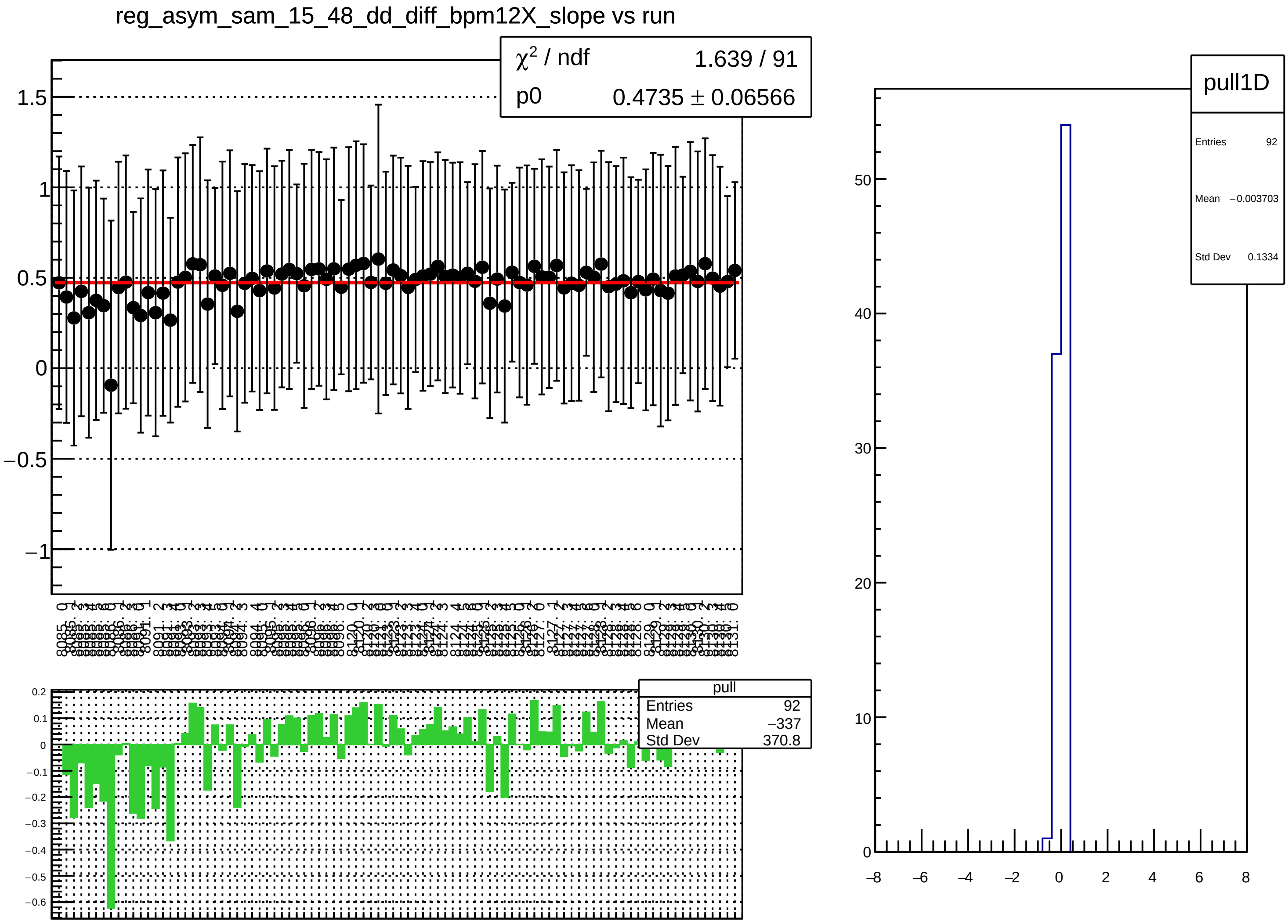
reg_asym_sam_15_48_dd_diff_bpm4aY_slope vs run
χ2 / ndf 1.327 / 91
p0 −13.58 ± 1.609
10
0
−10
−20
−30
−40
pull
Entries 92
Mean −2245
Std Dev 2291
0.2
0.1
0
−0.1
−0.2
−0.3
pull1D
Entries 92
Mean 0.0007847
Std Dev 0.1201
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



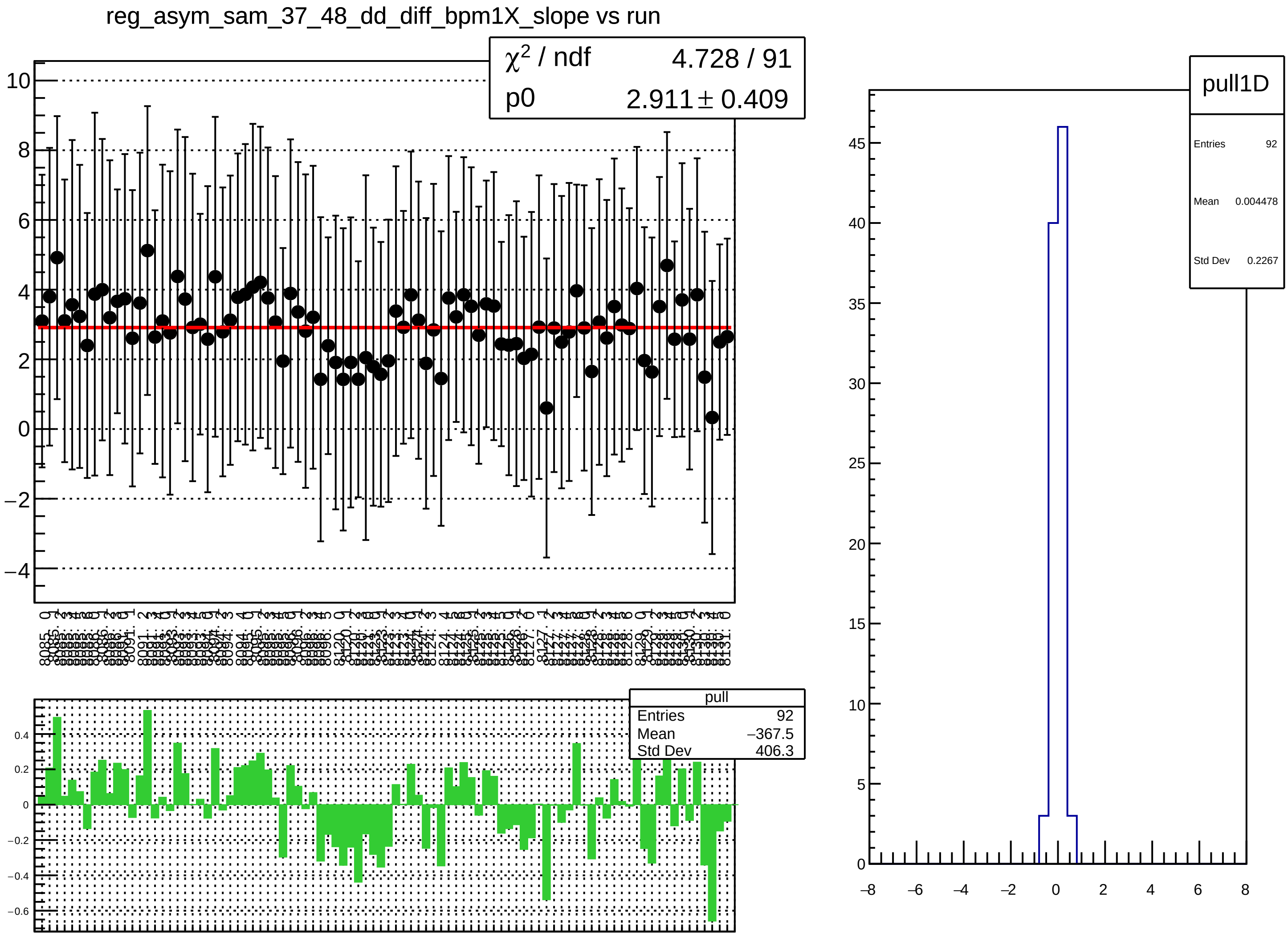
reg_asym_sam_15_48_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 1.329 / 91
p0 45.61 ± 1.041
pull
Entries 92
Mean 783.6
Std Dev 741.7
pull1D
Entries 92
Mean −0.002339
Std Dev 0.1202



reg_asym_sam_15_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 1.494 / 91
p0 −18.3 ± 1.718
pull
Entries 92
Mean −1498
Std Dev 1542
pull1D
Entries 92
Mean −0.00138
Std Dev 0.1274

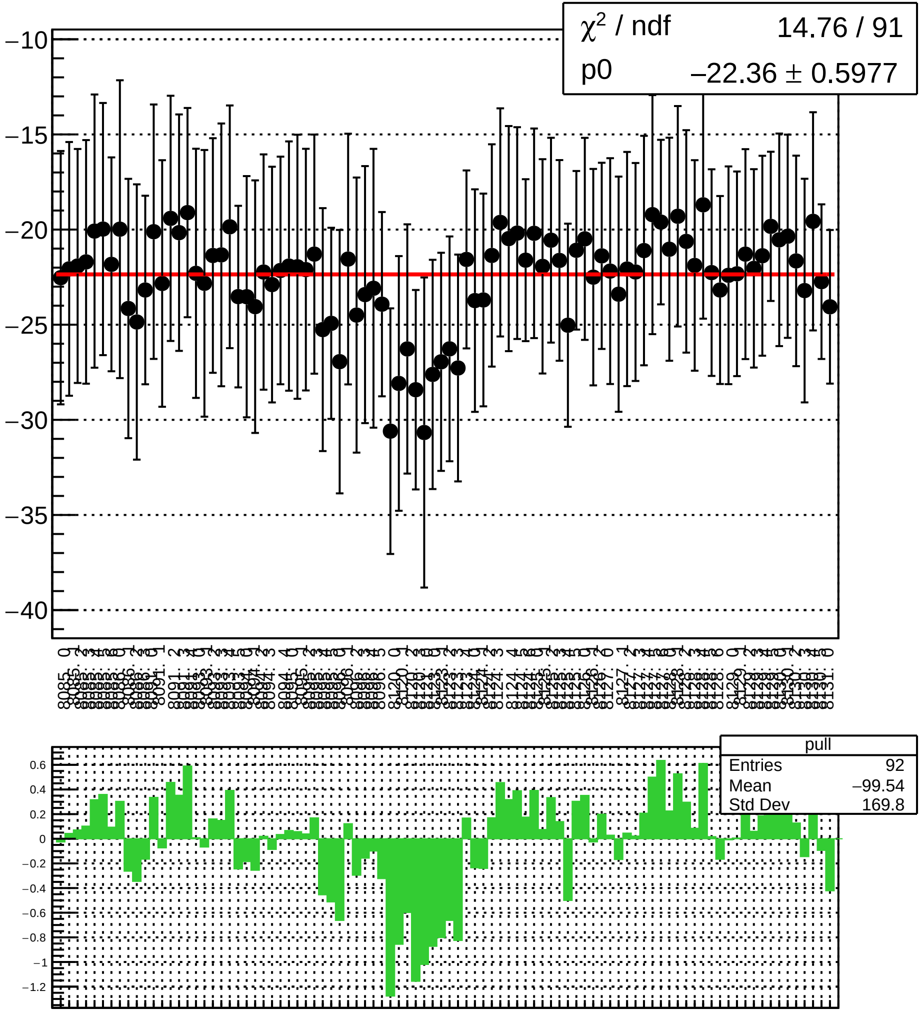


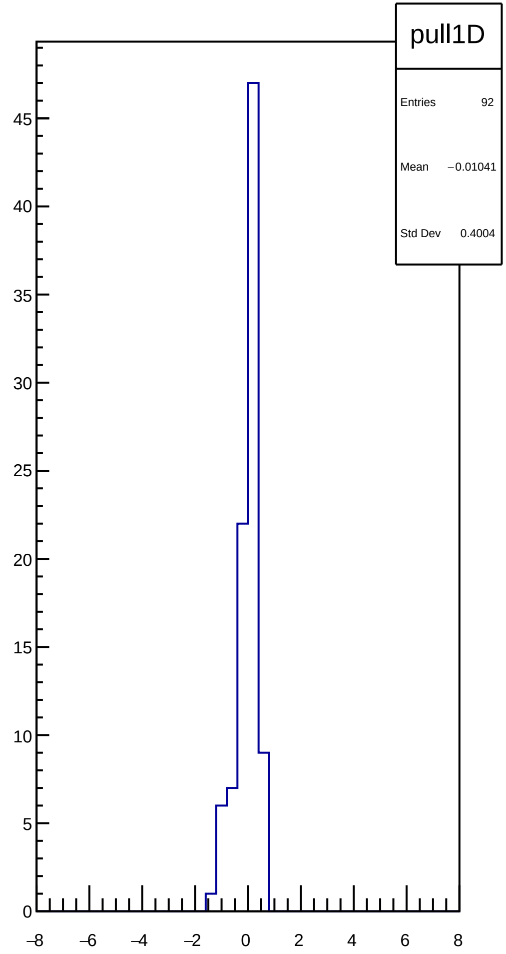
reg_asym_sam_15_48_dd_diff_bpm12X_slope vs run
χ² / ndf 1.639 / 91
p0 0.4735 ± 0.06566
pull
Entries 92
Mean −337
Std Dev 370.8
pull1D
Entries 92
Mean −0.003703
Std Dev 0.1334

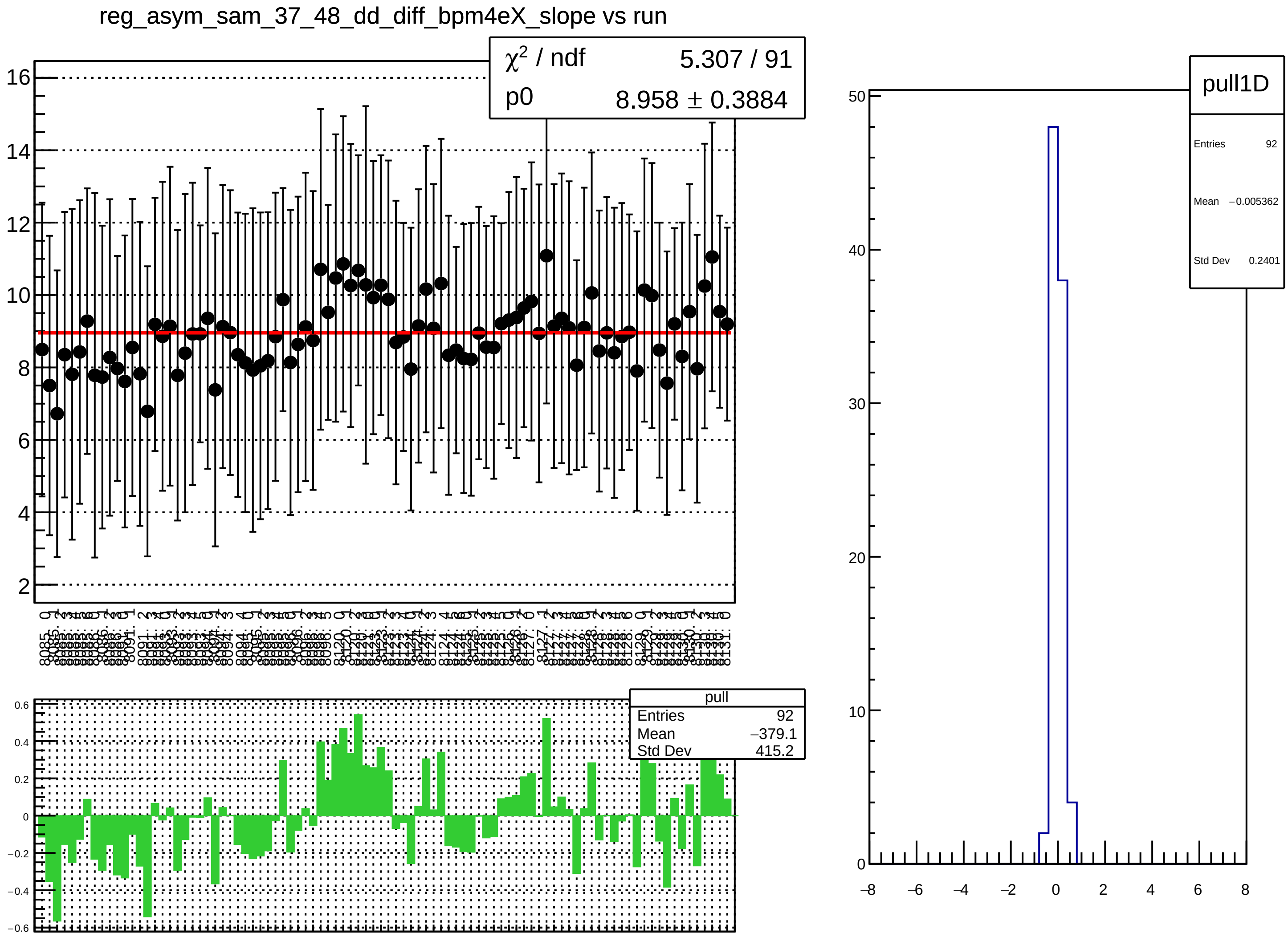


reg_asym_sam_37_48_dd_diff_bpm1X_slope vs run
χ2 / ndf 4.728 / 91
p0 2.911 ± 0.409
pull
Entries 92
Mean −367.5
Std Dev 406.3
pull1D
Entries 92
Mean 0.004478
Std Dev 0.2267

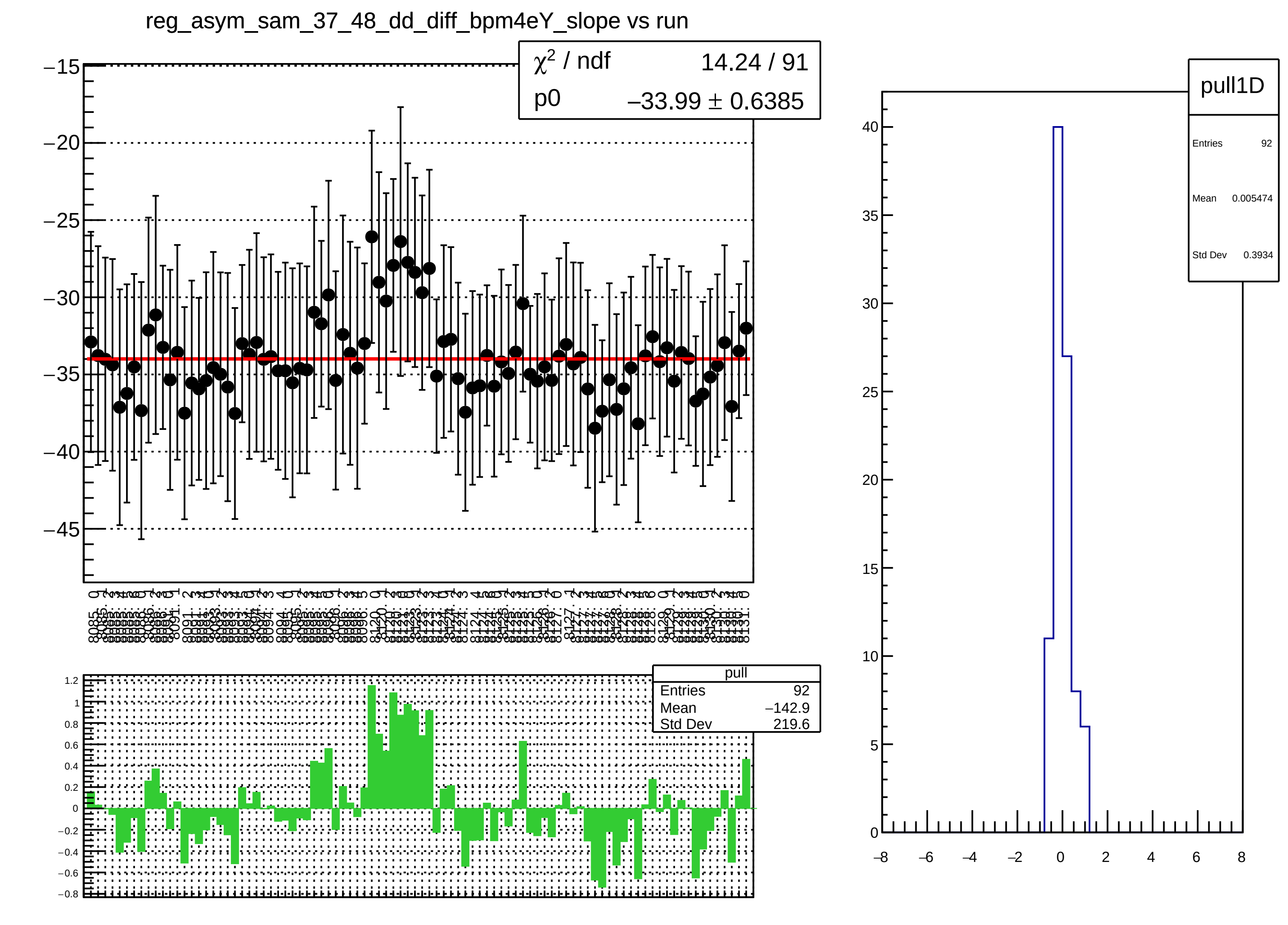
reg_asym_sam_37_48_dd_diff_bpm4aY_slope vs run



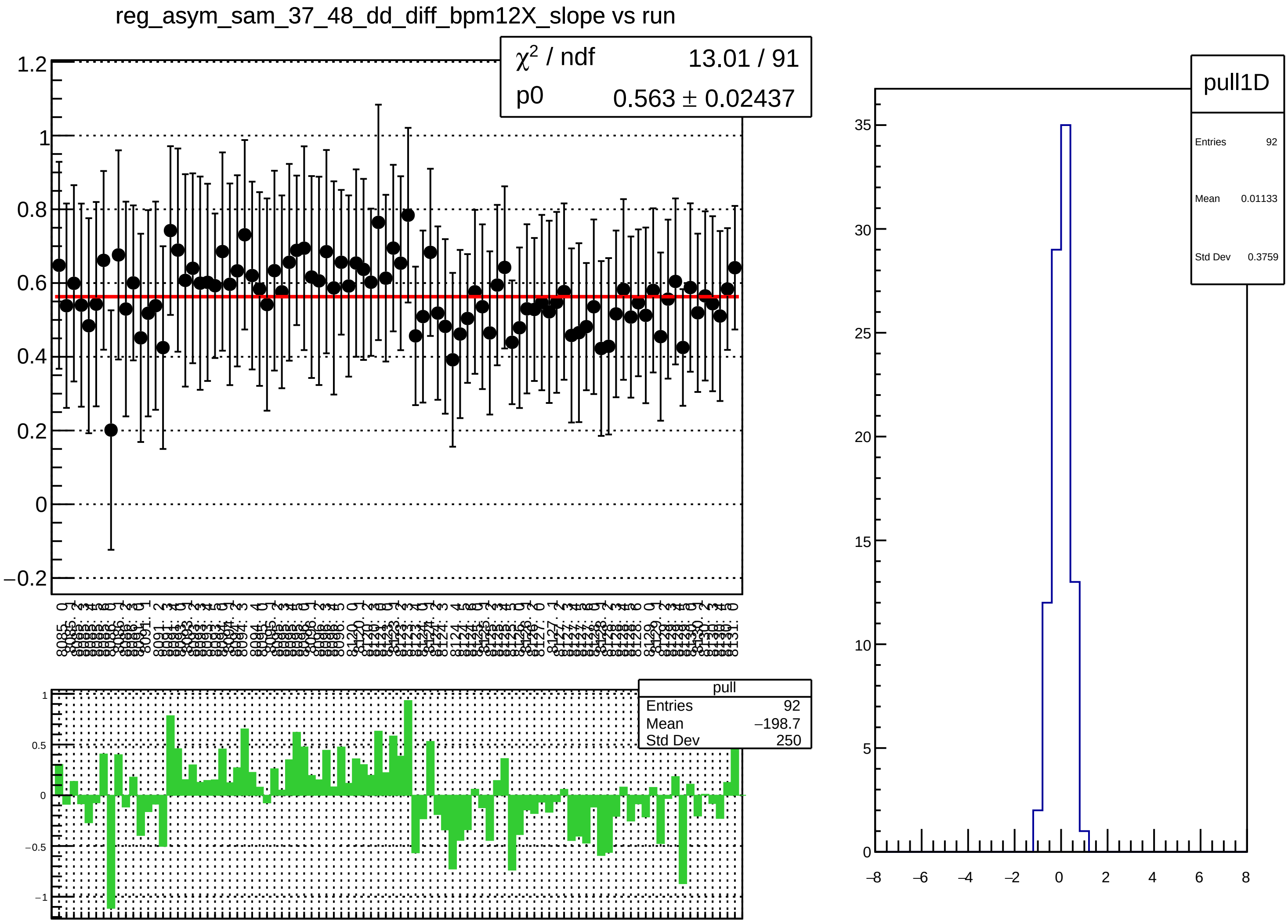




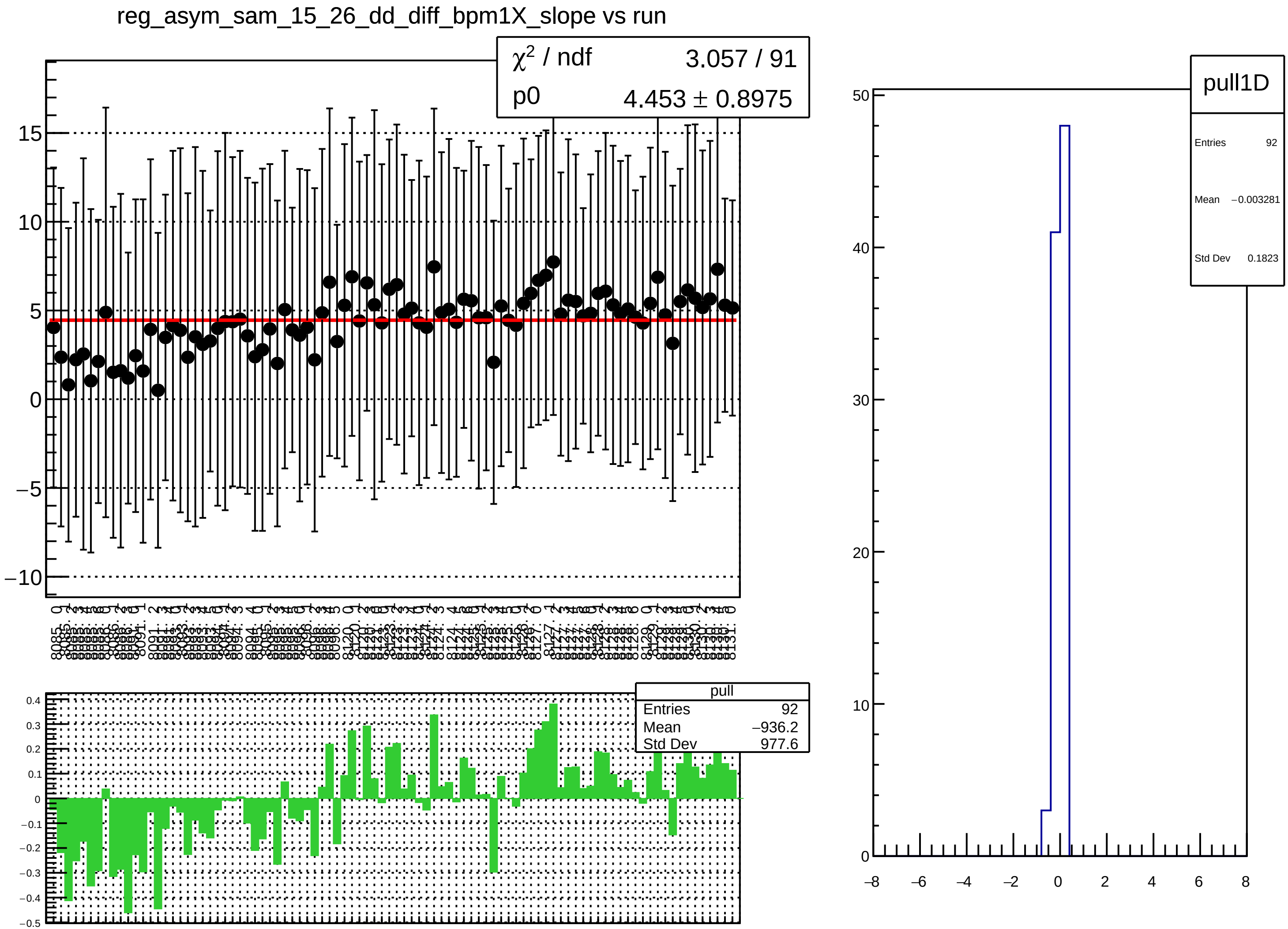
reg_asym_sam_37_48_dd_diff_bpm4eX_slope vs run
χ2 / ndf 5.307 / 91
p0 8.958 ± 0.3884
pull
Entries 92
Mean −379.1
Std Dev 415.2
pull1D
Entries 92
Mean −0.005362
Std Dev 0.2401



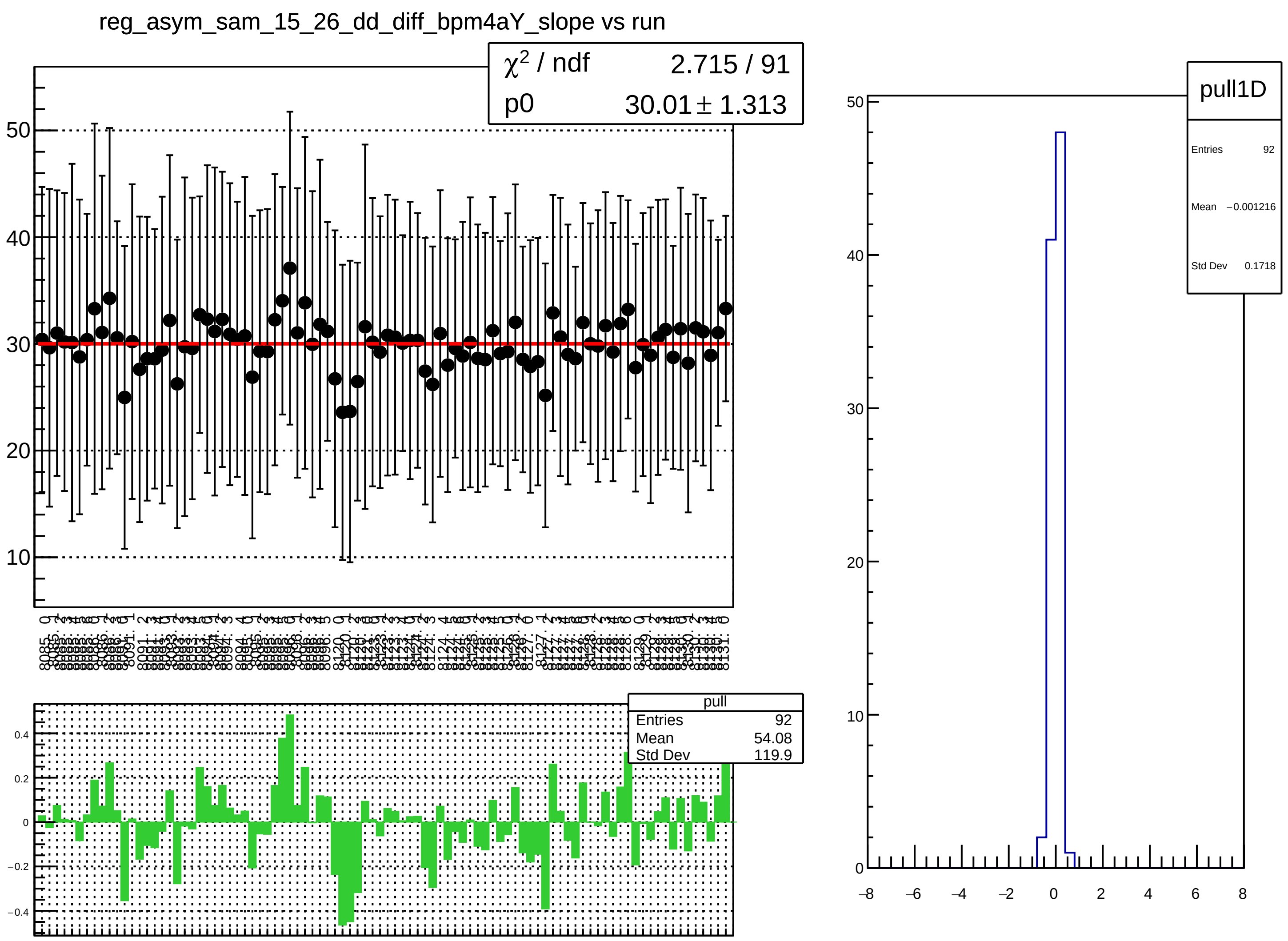
reg_asym_sam_37_48_dd_diff_bpm4eY_slope vs run
χ2 / ndf 14.24 / 91
p0 −33.99 ± 0.6385
pull
Entries 92
Mean −142.9
Std Dev 219.6
pull1D
Entries 92
Mean 0.005474
Std Dev 0.3934

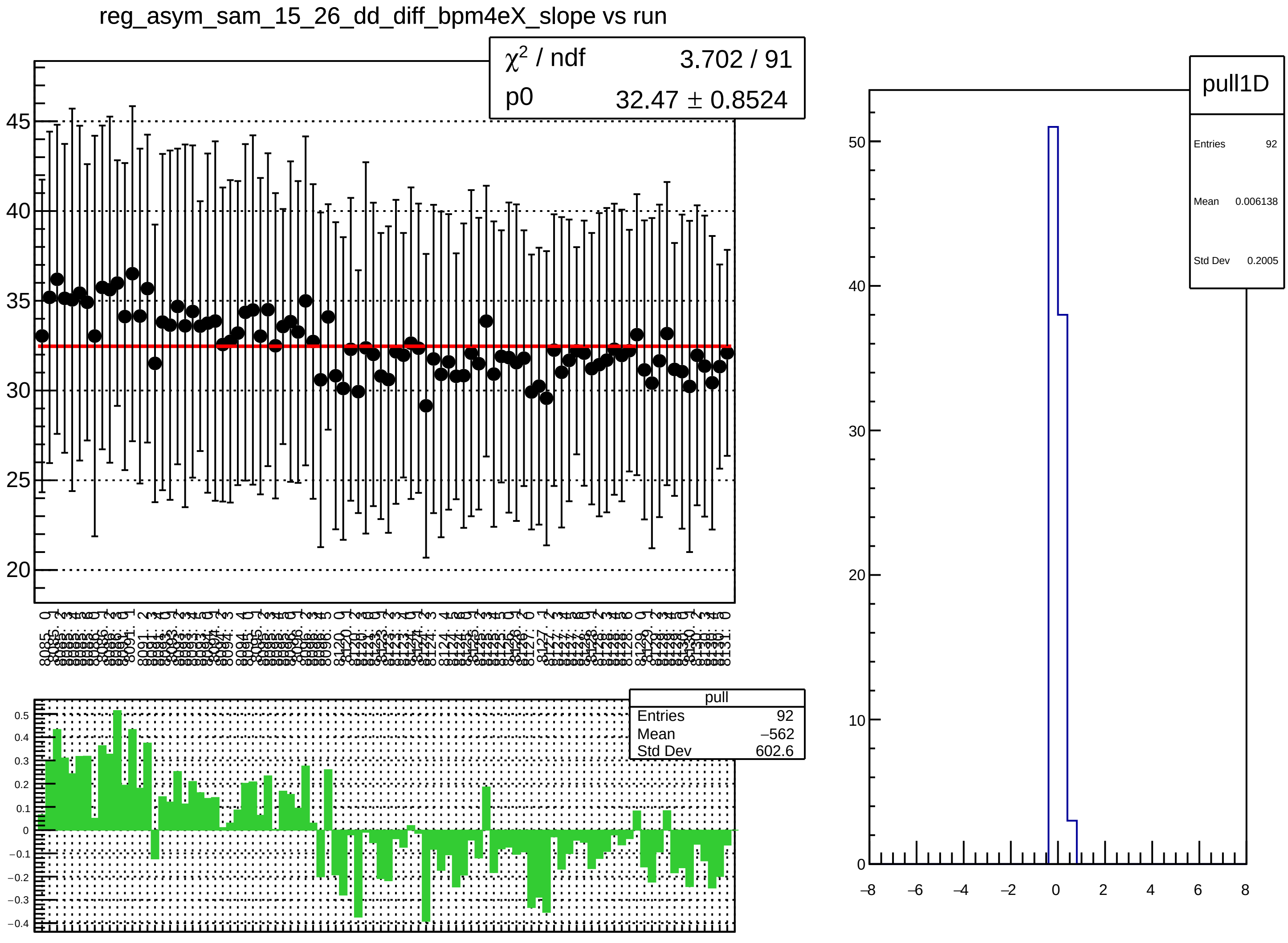


reg_asym_sam_37_48_dd_diff_bpm12X_slope vs run
χ^2 / ndf 13.01 / 91
p0 0.563 ± 0.02437
pull
Entries 92
Mean −198.7
Std Dev 250
pull1D
Entries 92
Mean 0.01133
Std Dev 0.3759

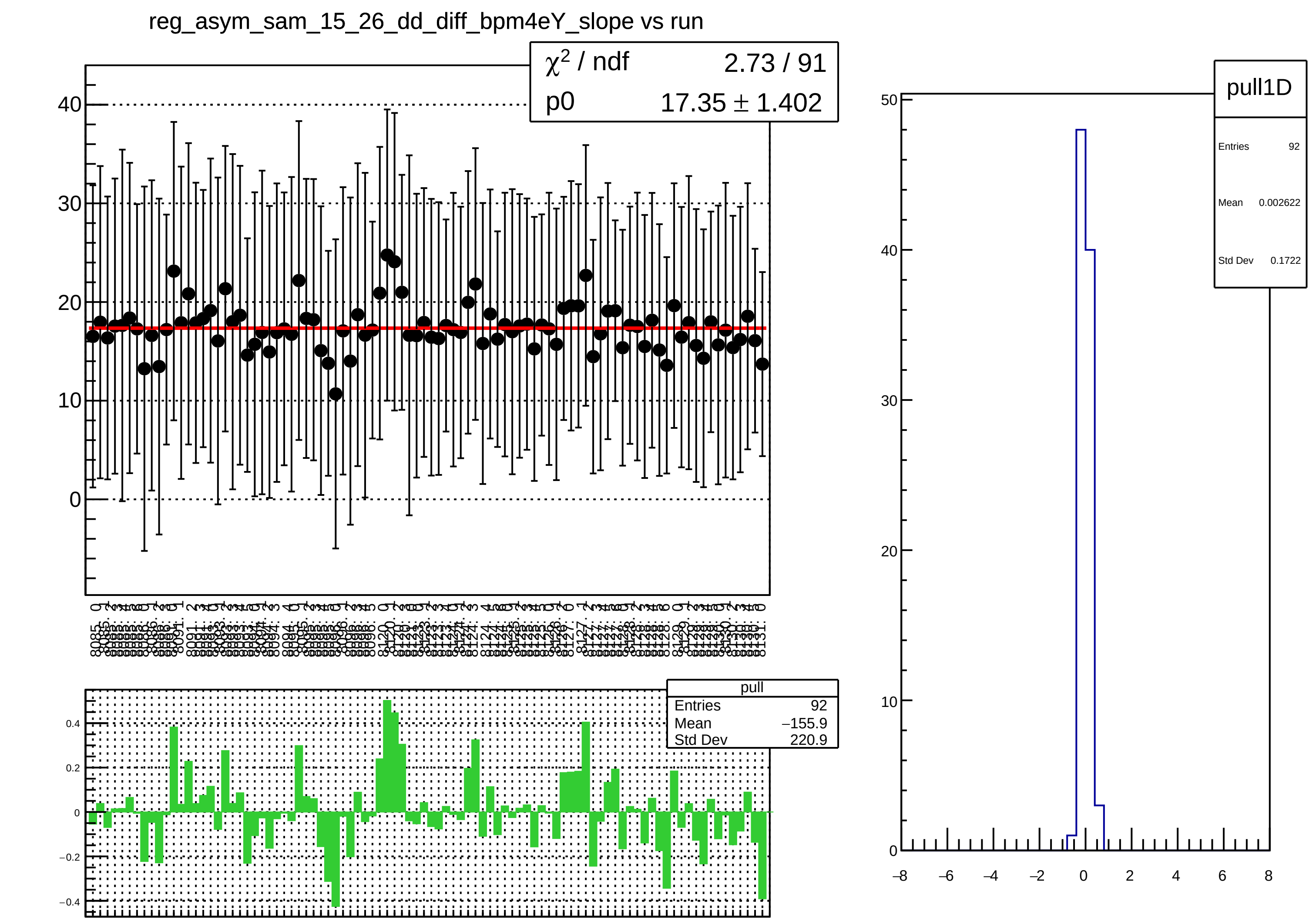


reg_asym_sam_15_26_dd_diff_bpm1X_slope vs run
χ^2 / ndf 3.057 / 91
p0 4.453 ± 0.8975
pull
Entries 92
Mean −936.2
Std Dev 977.6
pull1D
Entries 92
Mean −0.003281
Std Dev 0.1823

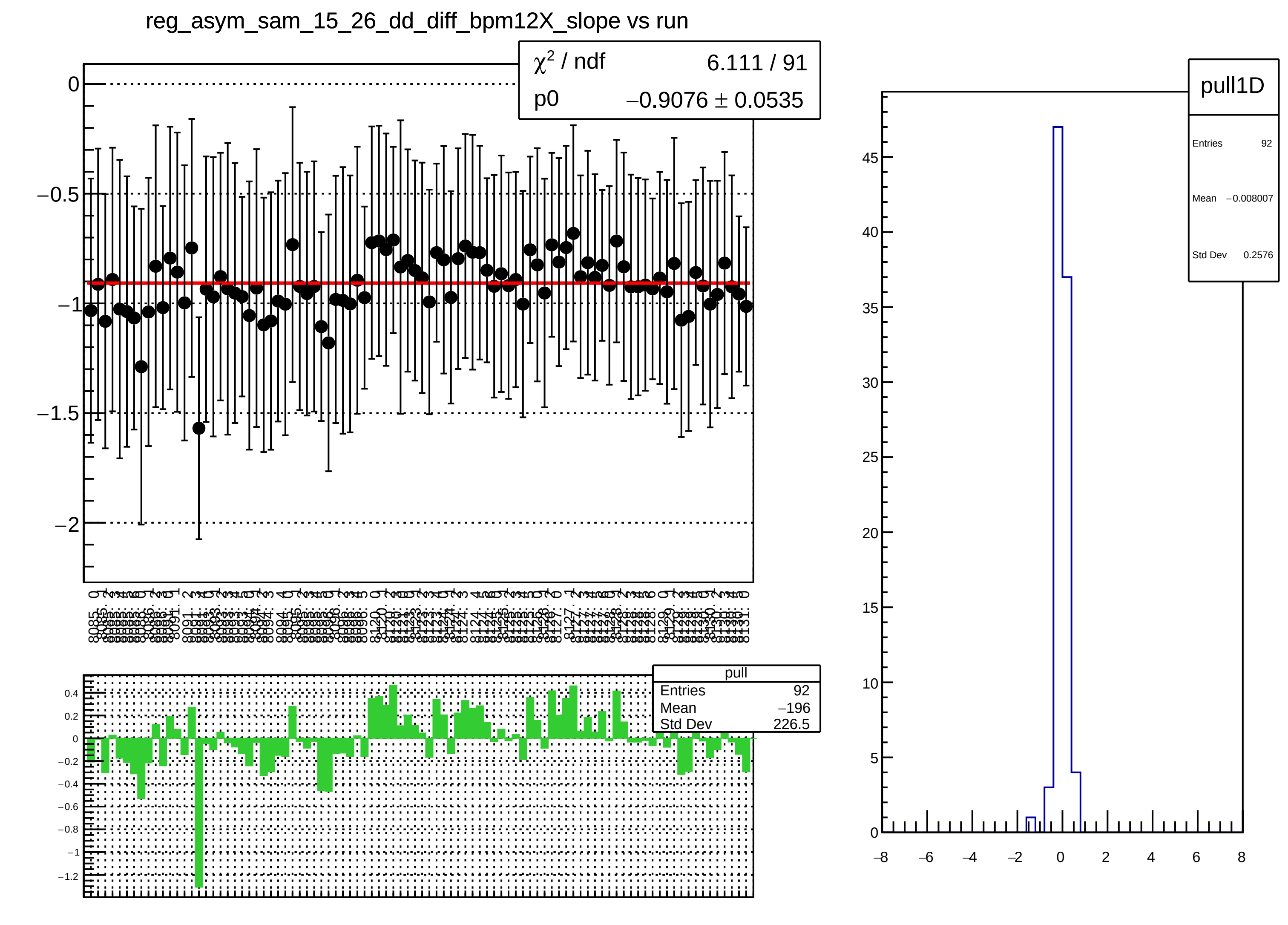

reg_asym_sam_15_26_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 2.715 / 91
p0 30.01 ± 1.313
pull
Entries 92
Mean 54.08
Std Dev 119.9
pull1D
Entries 92
Mean −0.001216
Std Dev 0.1718



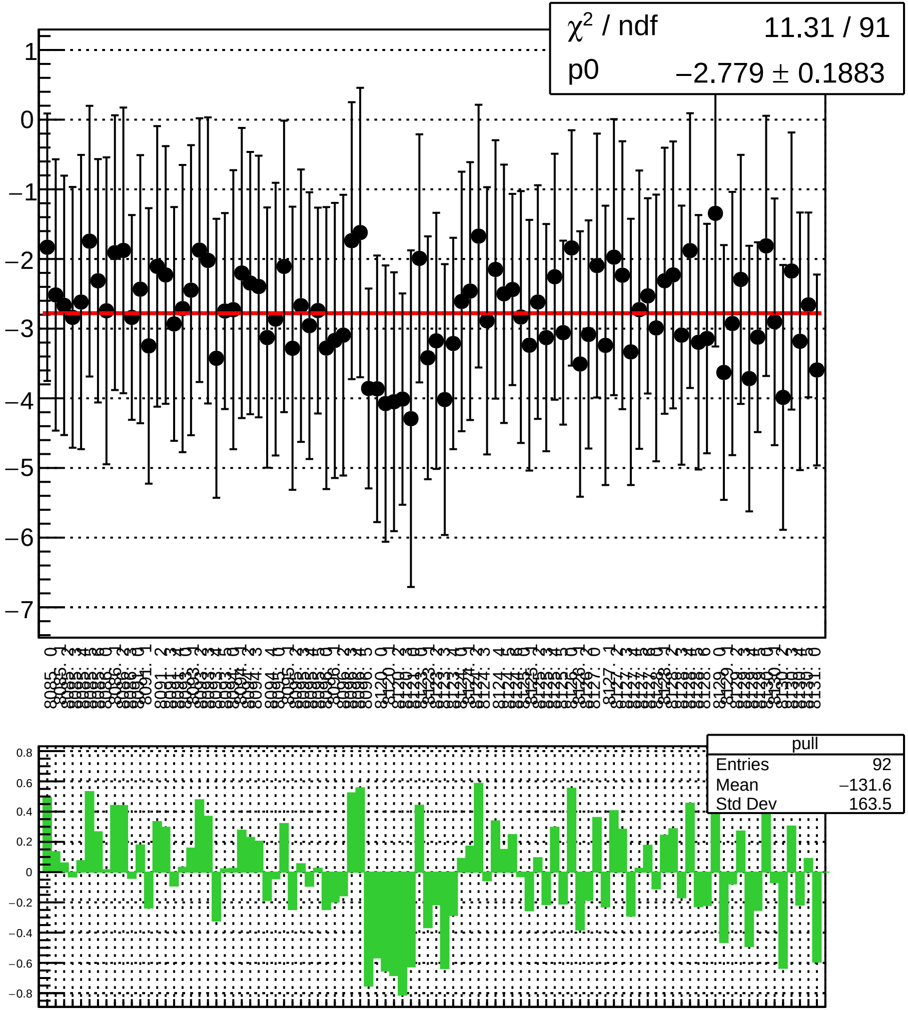
reg_asym_sam_15_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 3.702 / 91
p0 32.47 ± 0.8524
pull
Entries 92
Mean −562
Std Dev 602.6
pull1D
Entries 92
Mean 0.006138
Std Dev 0.2005

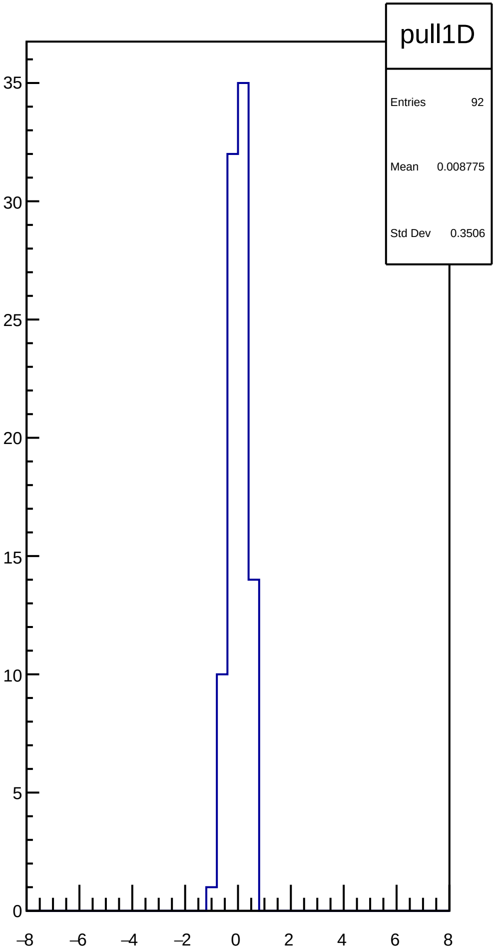


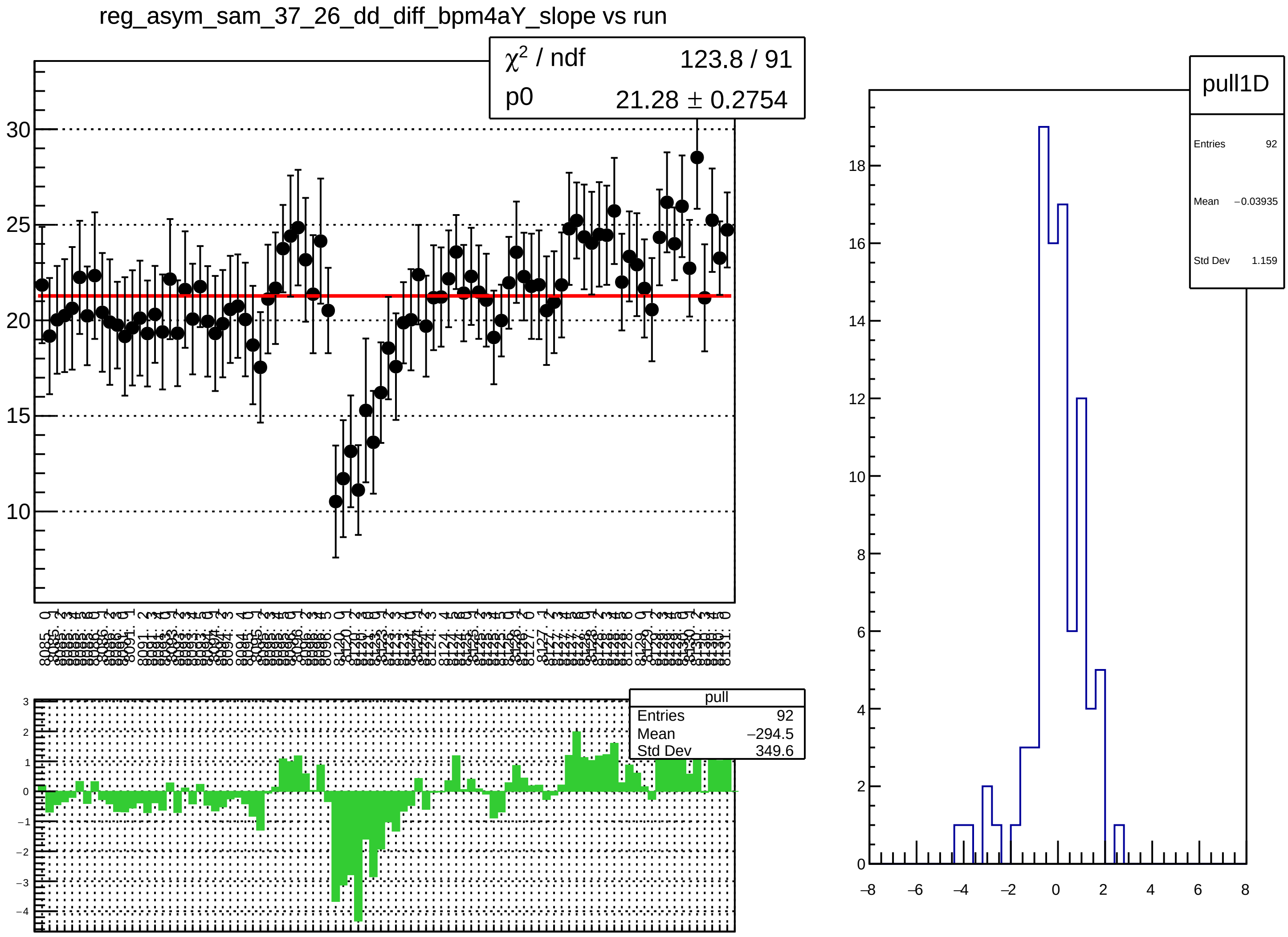
reg_asym_sam_15_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 2.73 / 91
p0 17.35 ± 1.402
pull
Entries 92
Mean −155.9
Std Dev 220.9
pull1D
Entries 92
Mean 0.002622
Std Dev 0.1722

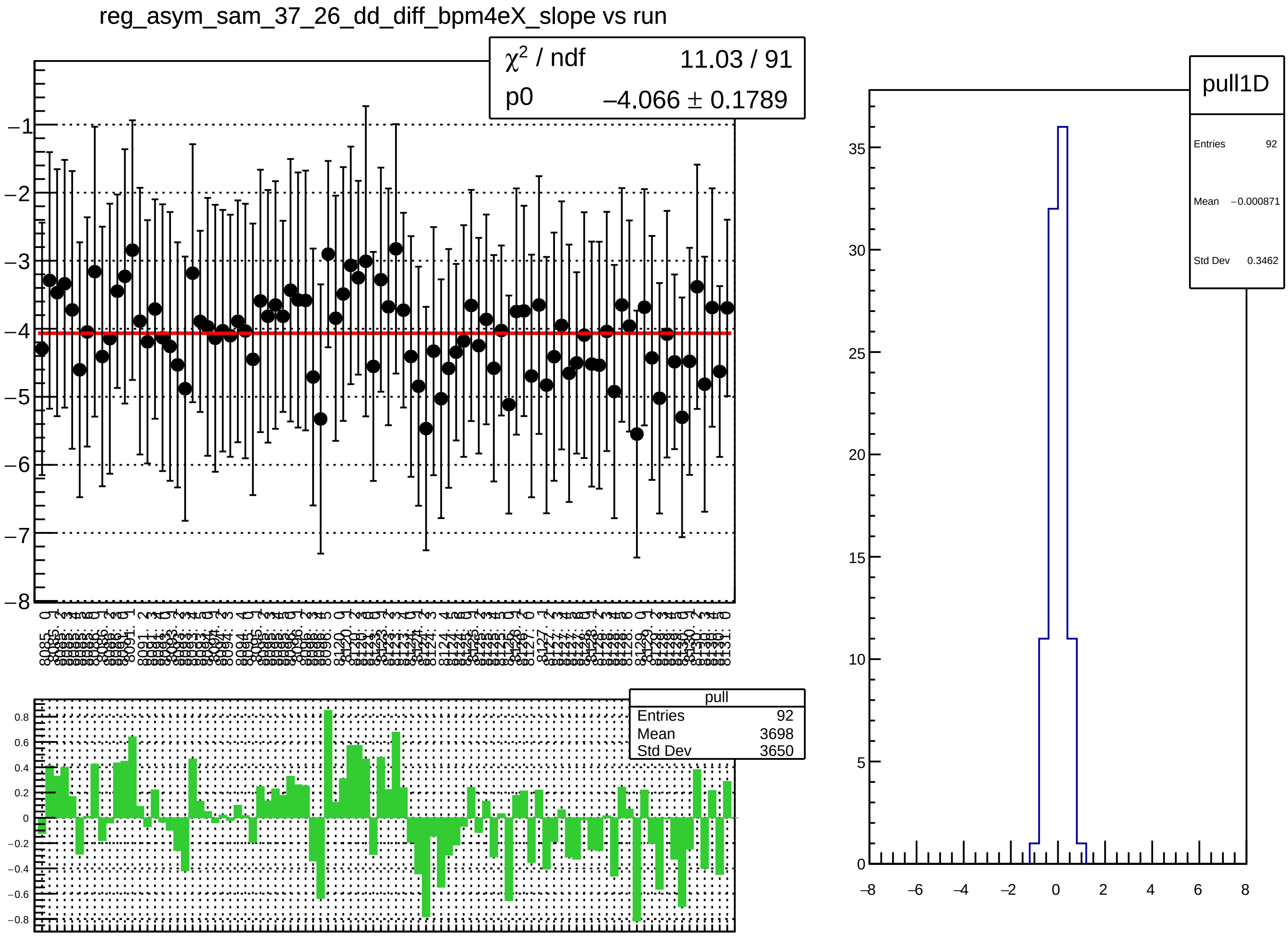

reg_asym_sam_15_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 6.111 / 91
p0 −0.9076 ± 0.0535
pull
Entries 92
Mean −196
Std Dev 226.5
pull1D
Entries 92
Mean −0.008007
Std Dev 0.2576

reg_asym_sam_37_26_dd_diff_bpm1X_slope vs run

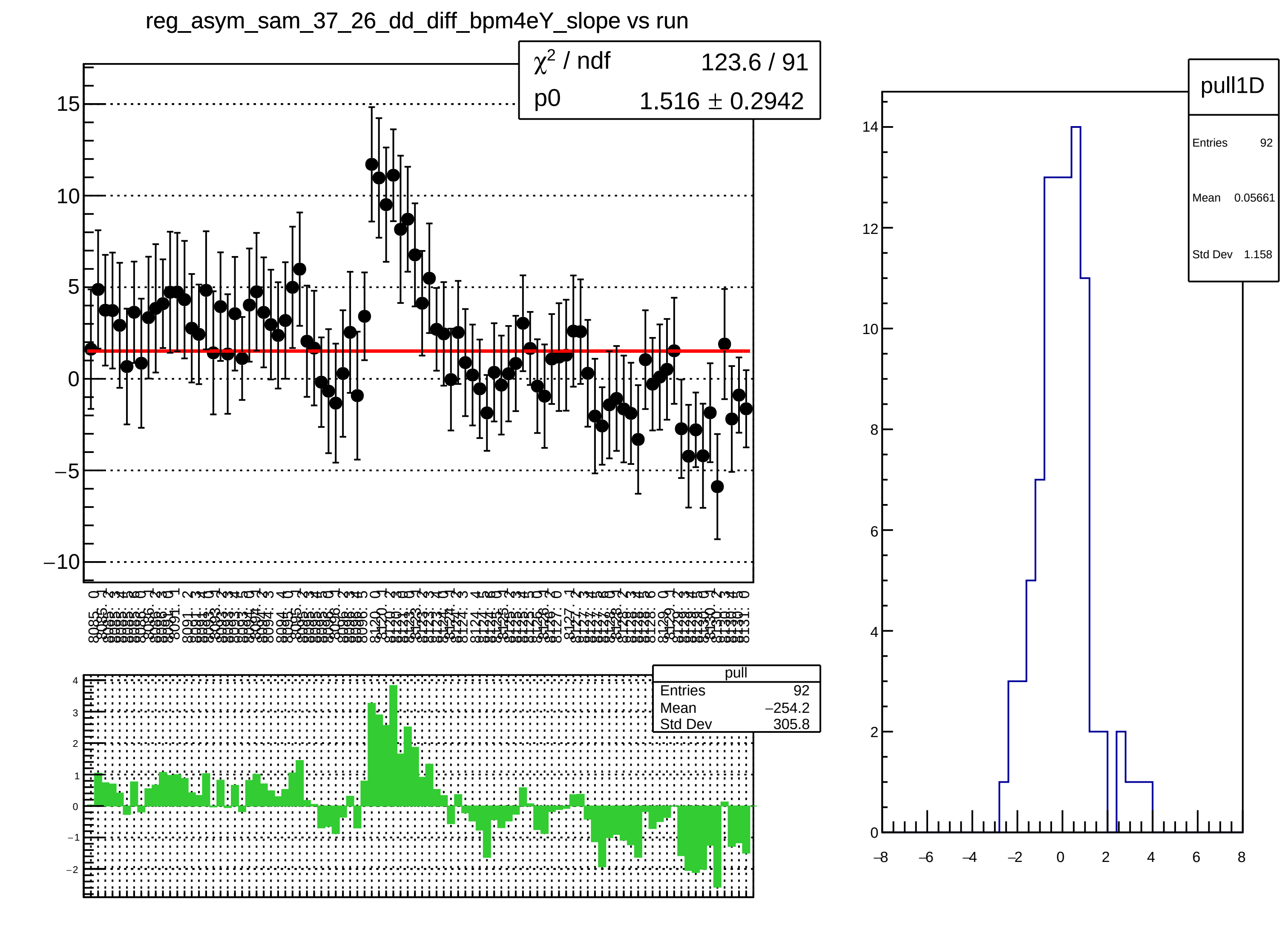




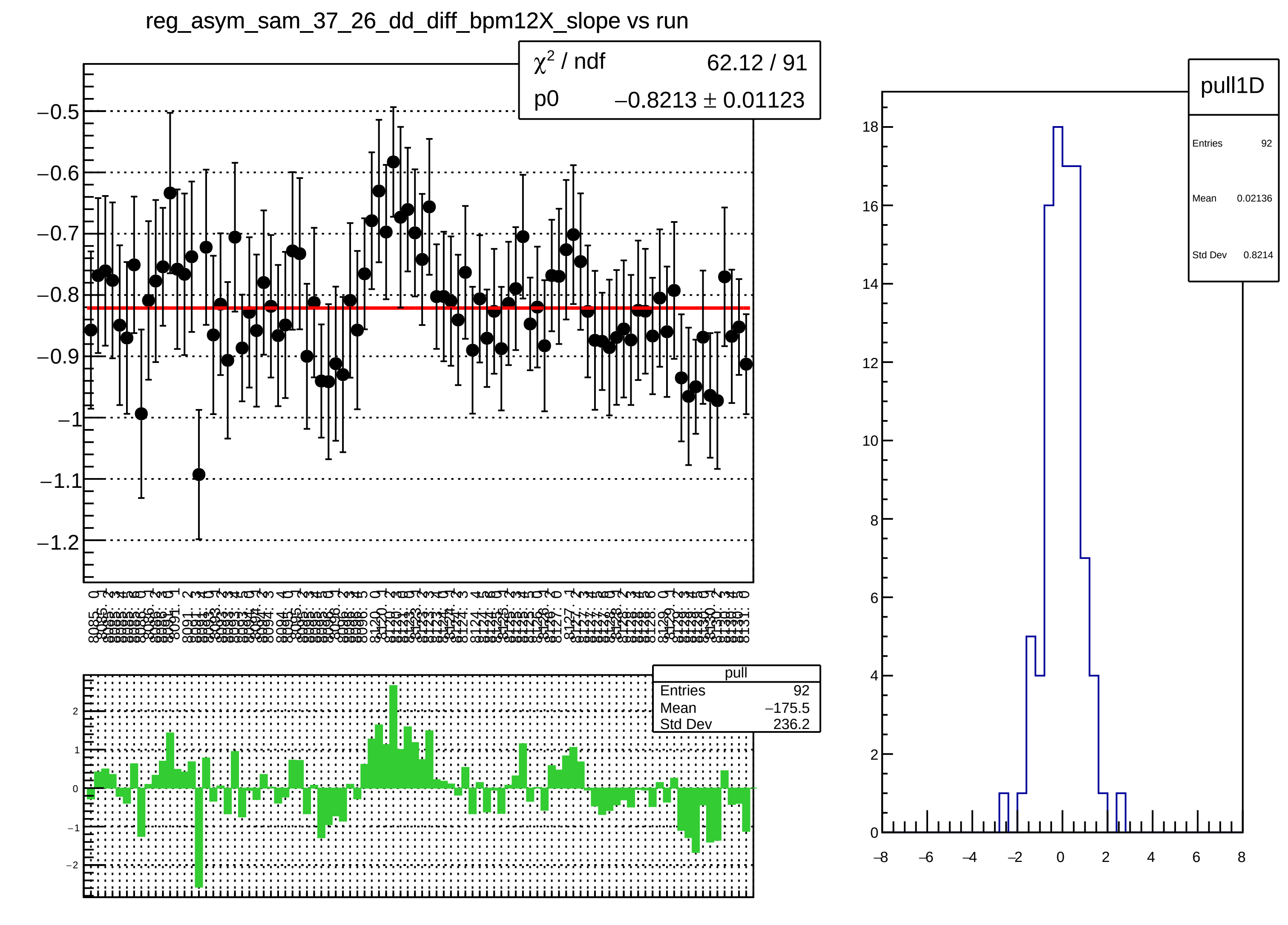

reg_asym_sam_37_26_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 123.8 / 91
p0 21.28 ± 0.2754
pull
Entries 92
Mean −294.5
Std Dev 349.6
pull1D
Entries 92
Mean −0.03935
Std Dev 1.159

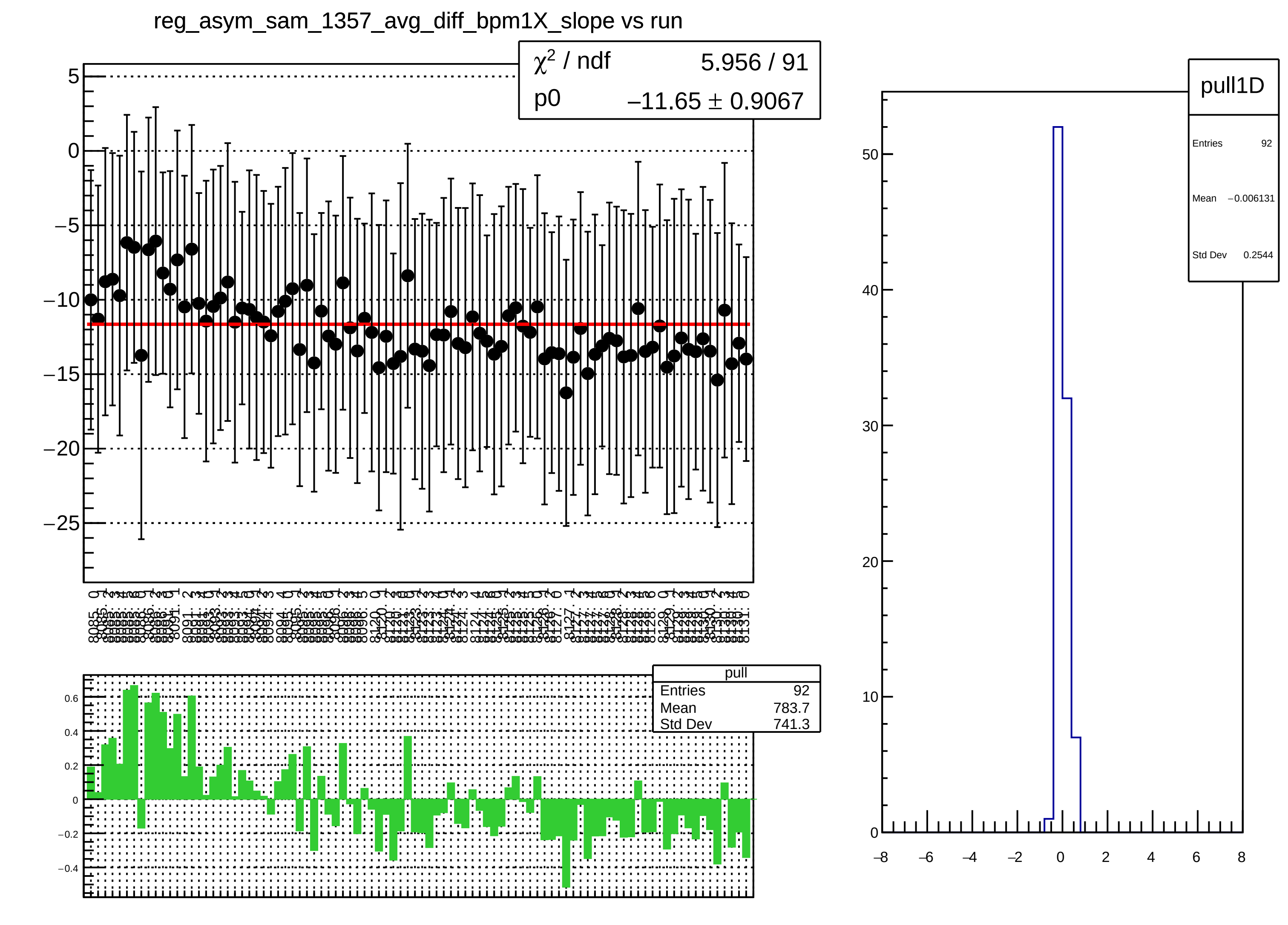


reg_asym_sam_37_26_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 11.03 / 91
p0 −4.066 ± 0.1789
pull
Entries 92
Mean 3698
Std Dev 3650
pull1D
Entries 92
Mean −0.000871
Std Dev 0.3462

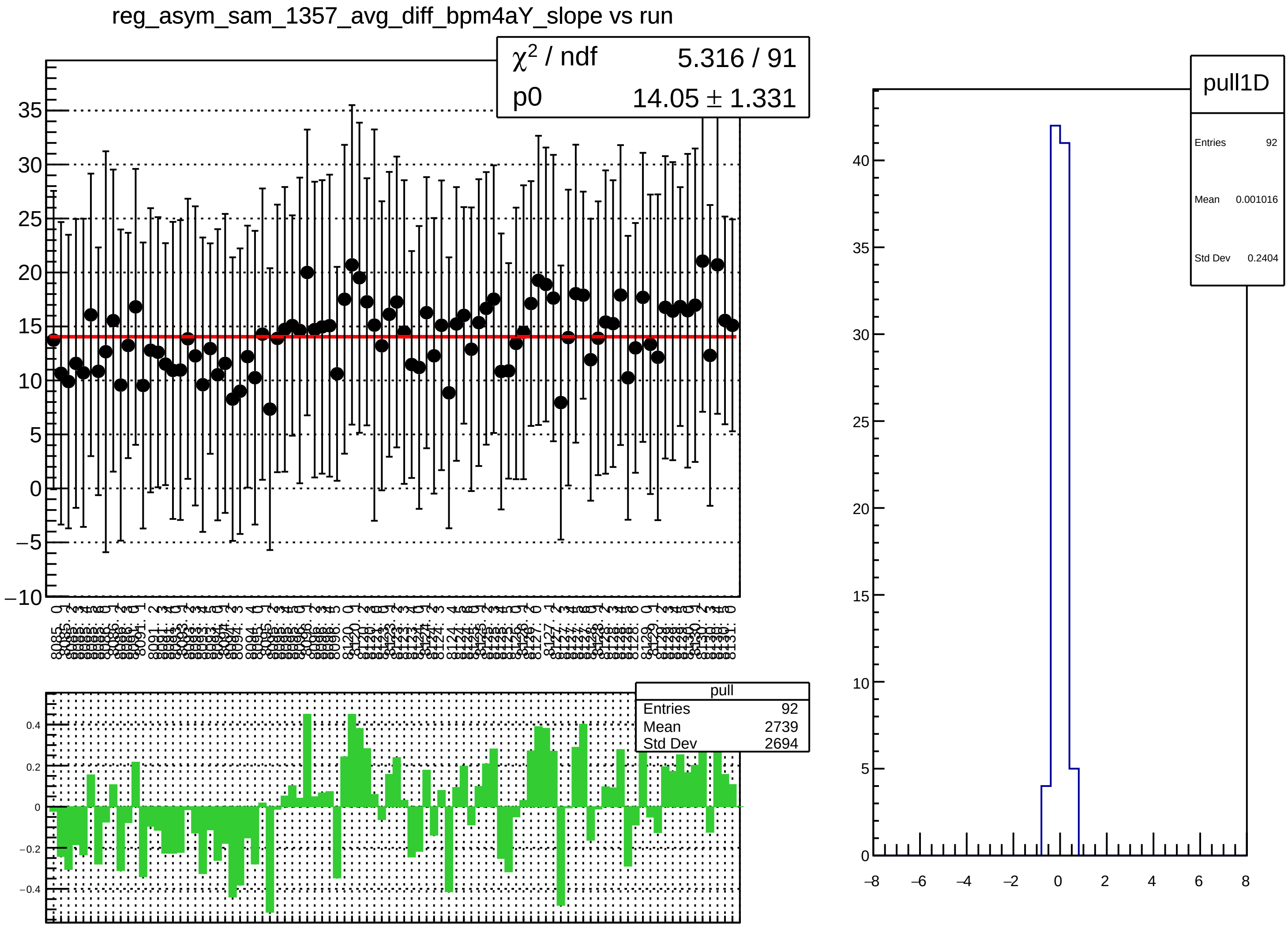


reg_asym_sam_37_26_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 123.6 / 91
p0 1.516 ± 0.2942
pull
Entries 92
Mean −254.2
Std Dev 305.8
pull1D
Entries 92
Mean 0.05661
Std Dev 1.158

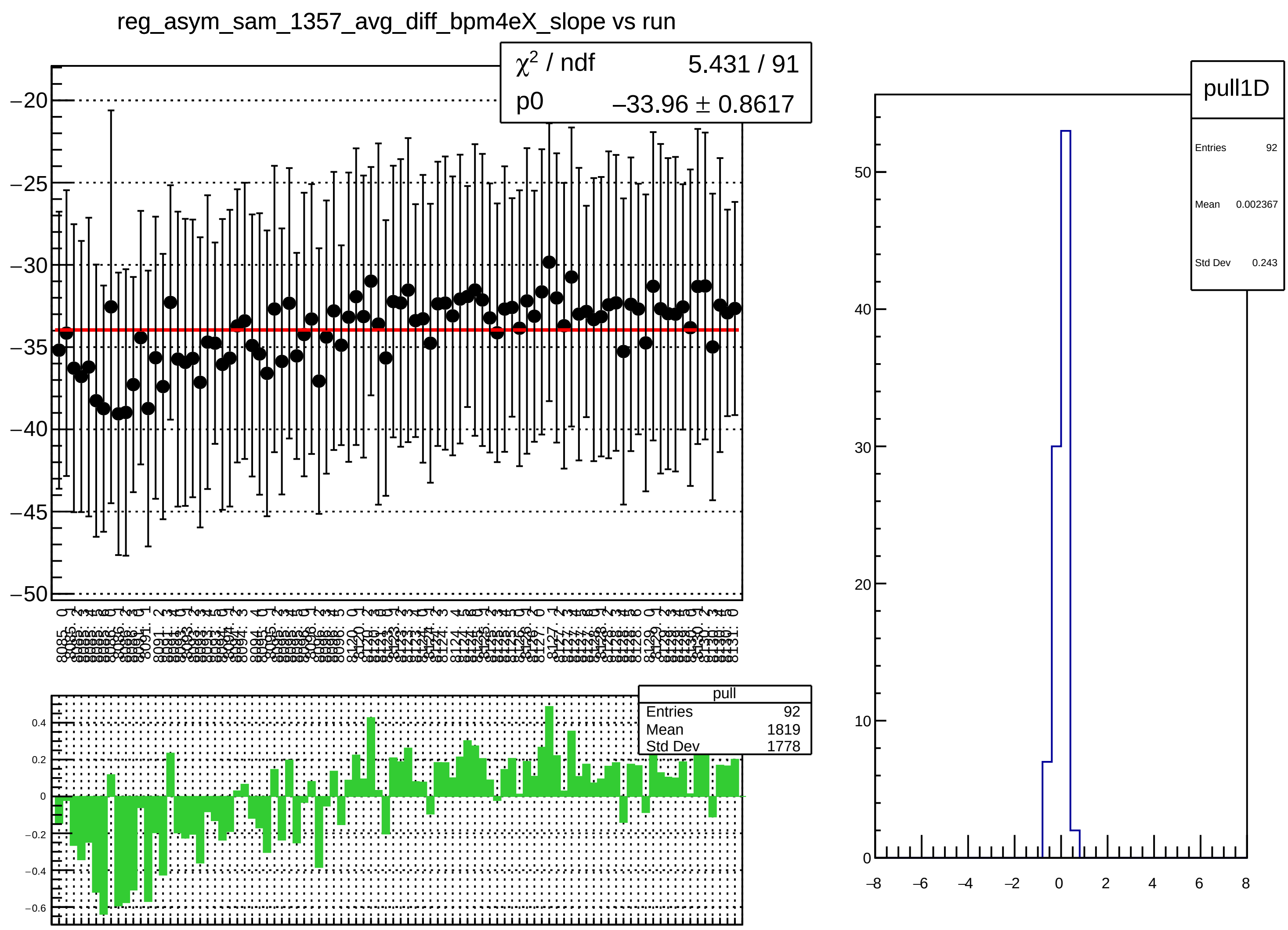

reg_asym_sam_37_26_dd_diff_bpm12X_slope vs run
χ^2 / ndf 62.12 / 91
p0 −0.8213 ± 0.01123
pull
Entries 92
Mean −175.5
Std Dev 236.2
pull1D
Entries 92
Mean 0.02136
Std Dev 0.8214



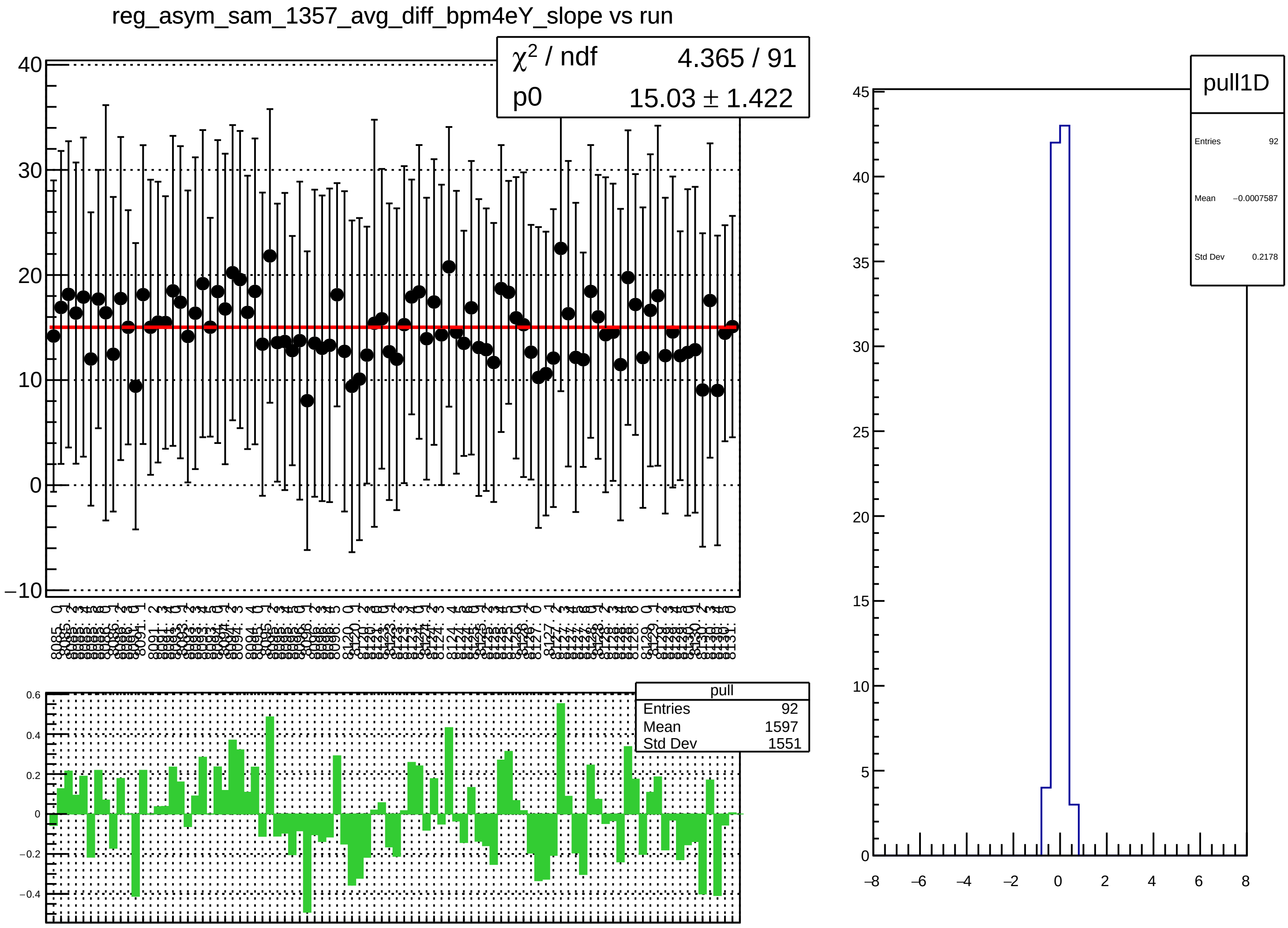
reg_asym_sam_1357_avg_diff_bpm1X_slope vs run
χ^2 / ndf 5.956 / 91
p0 −11.65 ± 0.9067
pull
Entries 92
Mean 783.7
Std Dev 741.3
pull1D
Entries 92
Mean −0.006131
Std Dev 0.2544



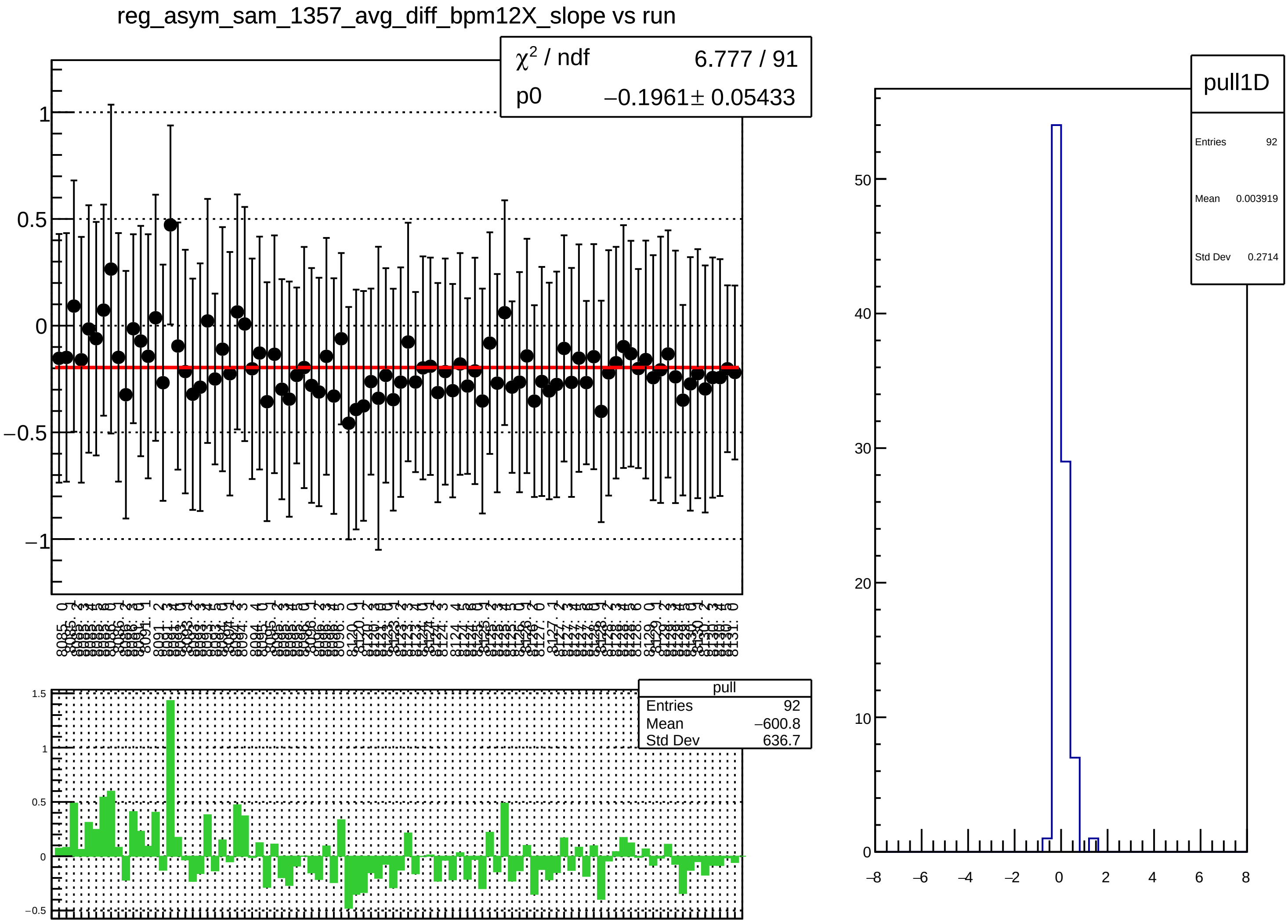
reg_asym_sam_1357_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 5.316 / 91
p0 14.05 ± 1.331
pull
Entries 92
Mean 2739
Std Dev 2694
pull1D
Entries 92
Mean 0.001016
Std Dev 0.2404



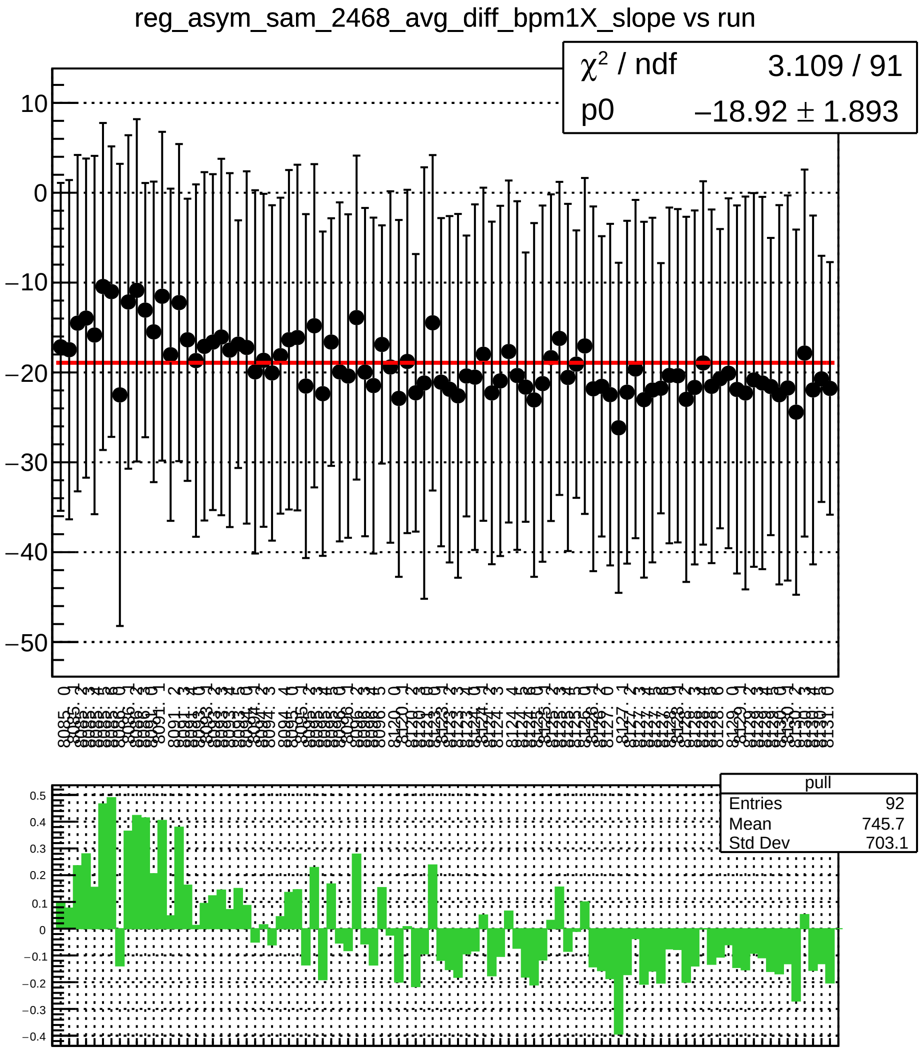
reg_asym_sam_1357_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 5.431 / 91
p0 −33.96 ± 0.8617
pull
Entries 92
Mean 1819
Std Dev 1778
pull1D
Entries 92
Mean 0.002367
Std Dev 0.243



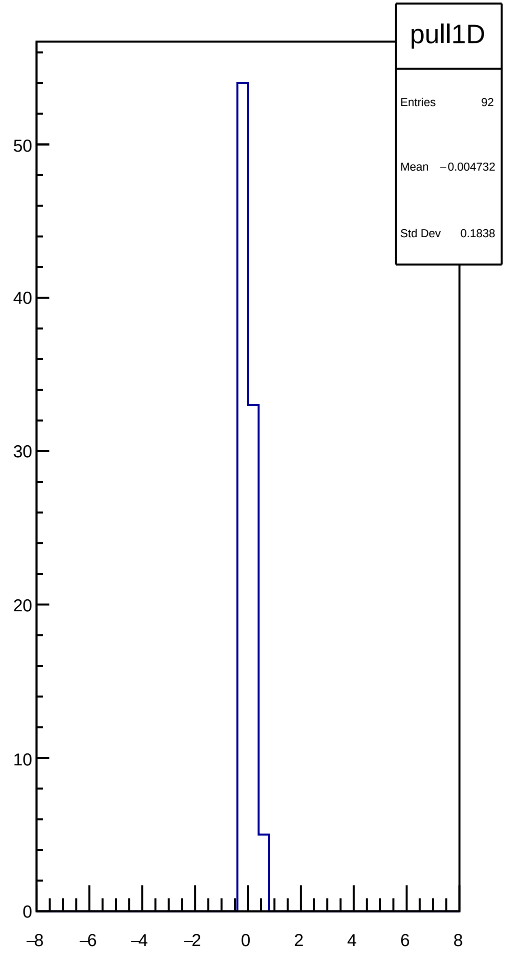
reg_asym_sam_1357_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 4.365 / 91
p0 15.03 ± 1.422
pull
Entries 92
Mean 1597
Std Dev 1551
pull1D
Entries 92
Mean −0.0007587
Std Dev 0.2178



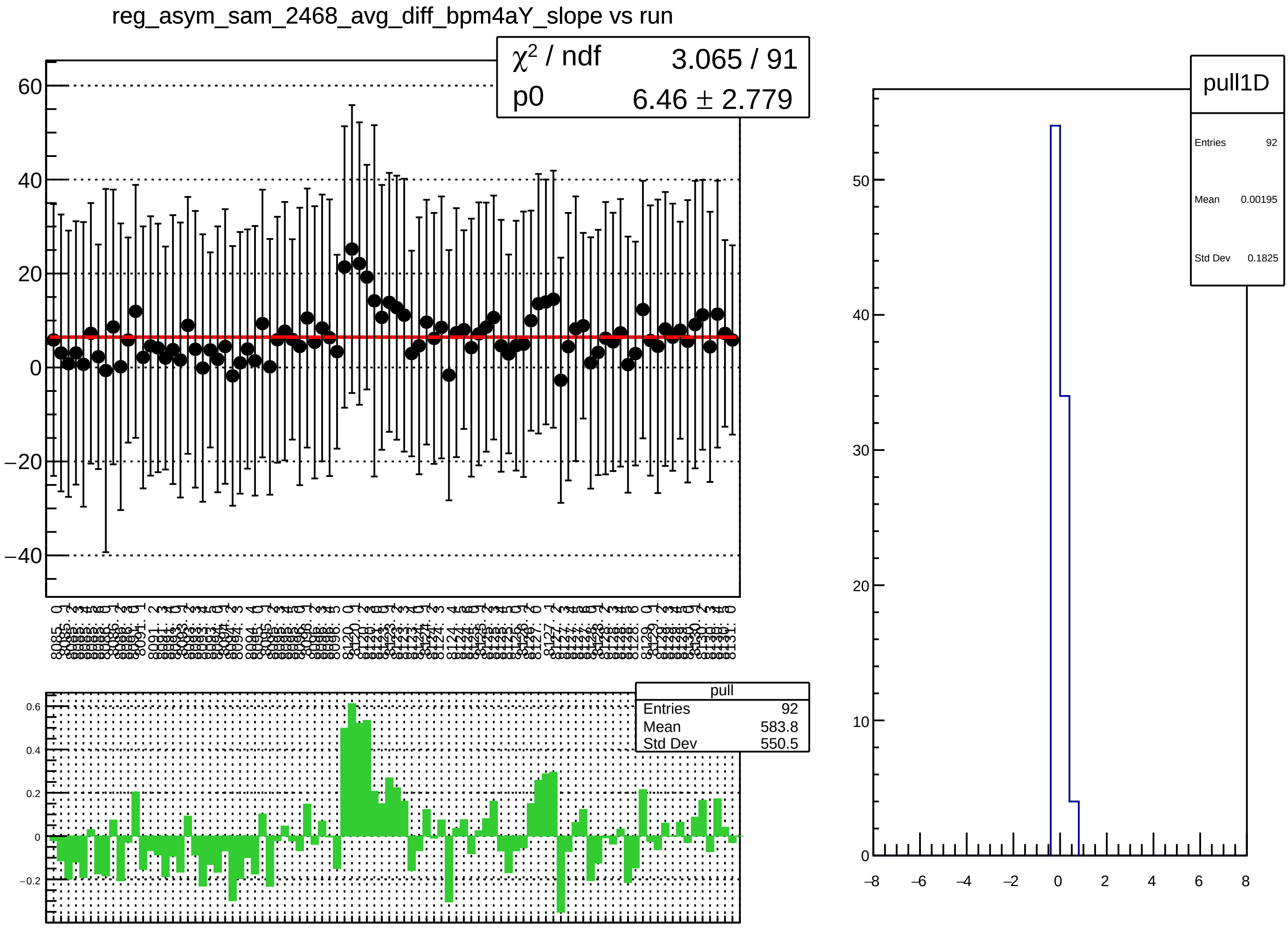
reg_asym_sam_1357_avg_diff_bpm12X_slope vs run
χ^2 / ndf 6.777 / 91
p0 −0.1961 ± 0.05433
1
0.5
0
−0.5
−1
pull
Entries 92
Mean −600.8
Std Dev 636.7
1.5
1
0.5
0
−0.5
pull1D
Entries 92
Mean 0.003919
Std Dev 0.2714
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8



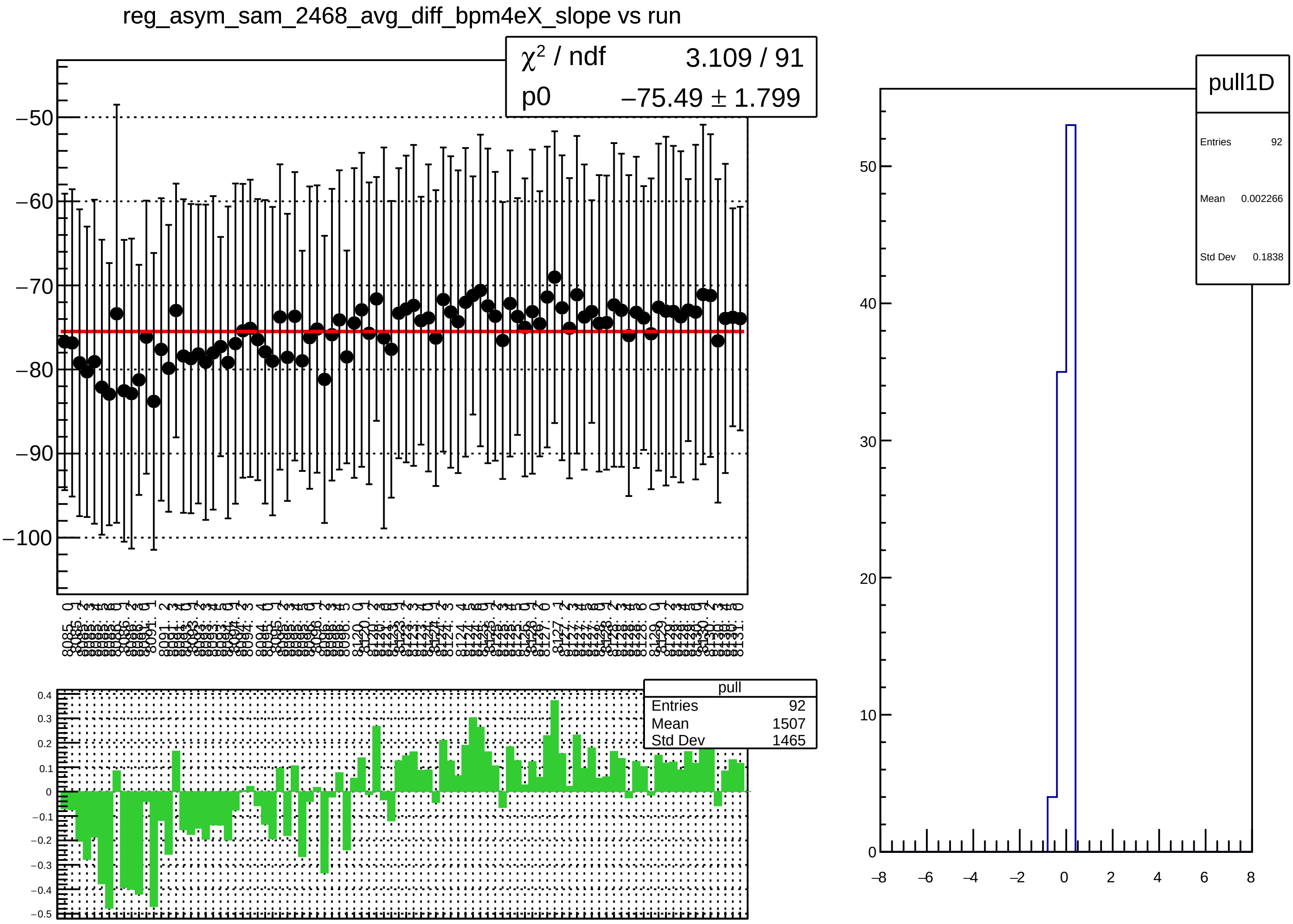
reg_asym_sam_2468_avg_diff_bpm1X_slope vs run
χ^2 / ndf 3.109 / 91
p0 −18.92 ± 1.893
pull
Entries 92
Mean 745.7
Std Dev 703.1



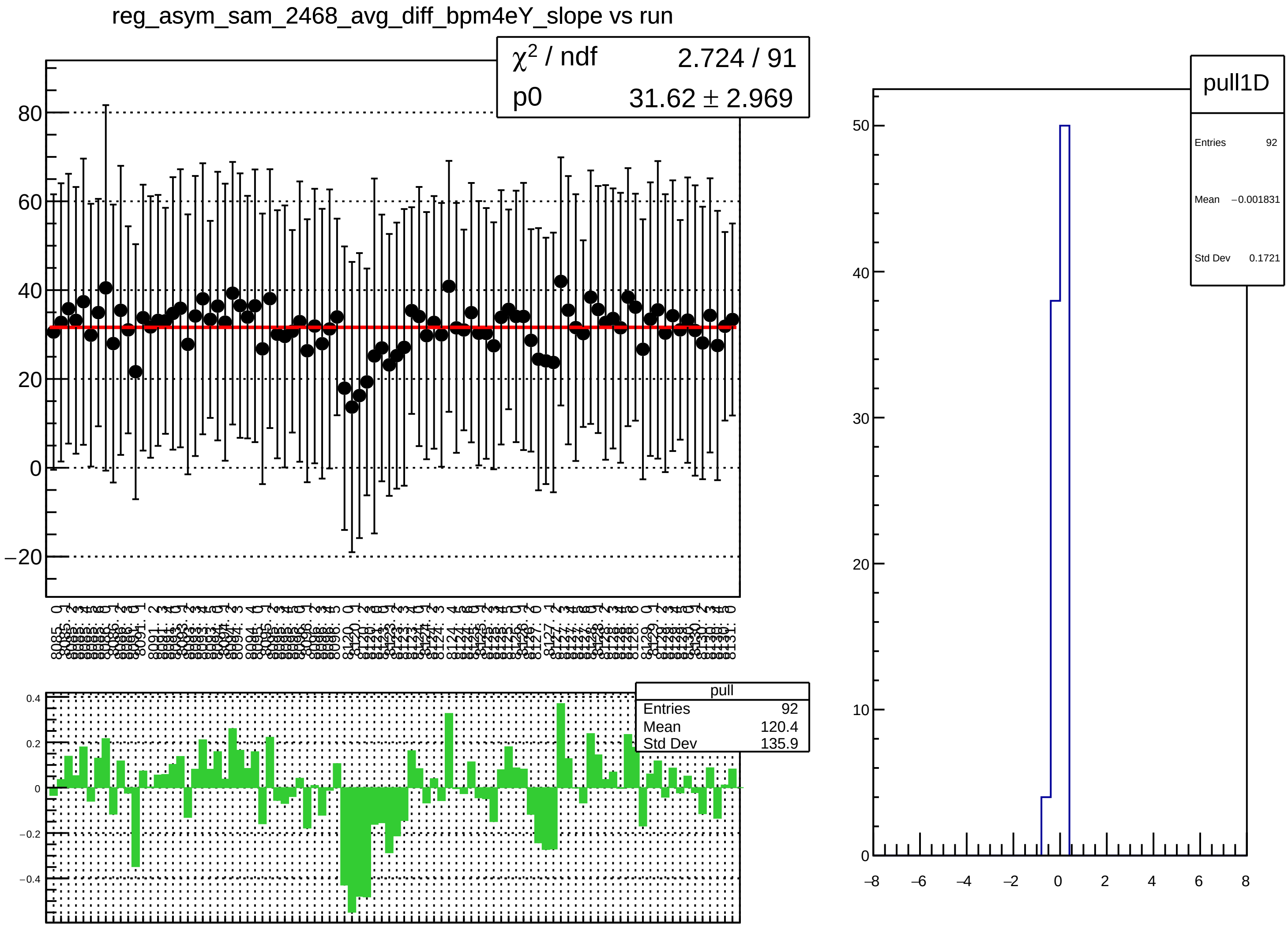
pull1D
Entries 92
Mean −0.004732
Std Dev 0.1838



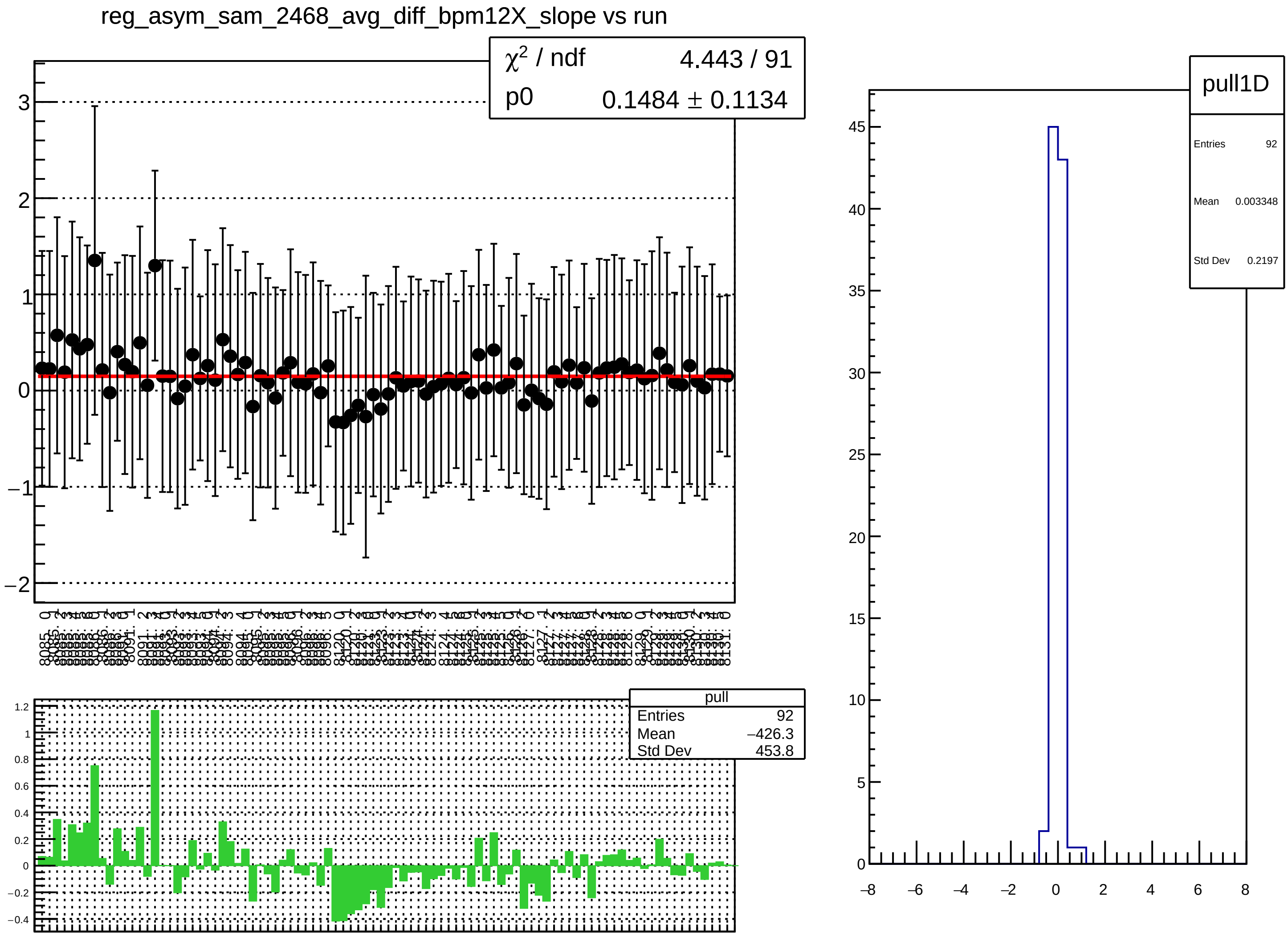
reg_asym_sam_2468_avg_diff_bpm4aY_slope vs run
χ2 / ndf 3.065 / 91
p0 6.46 ± 2.779
pull
Entries 92
Mean 583.8
Std Dev 550.5
pull1D
Entries 92
Mean 0.00195
Std Dev 0.1825



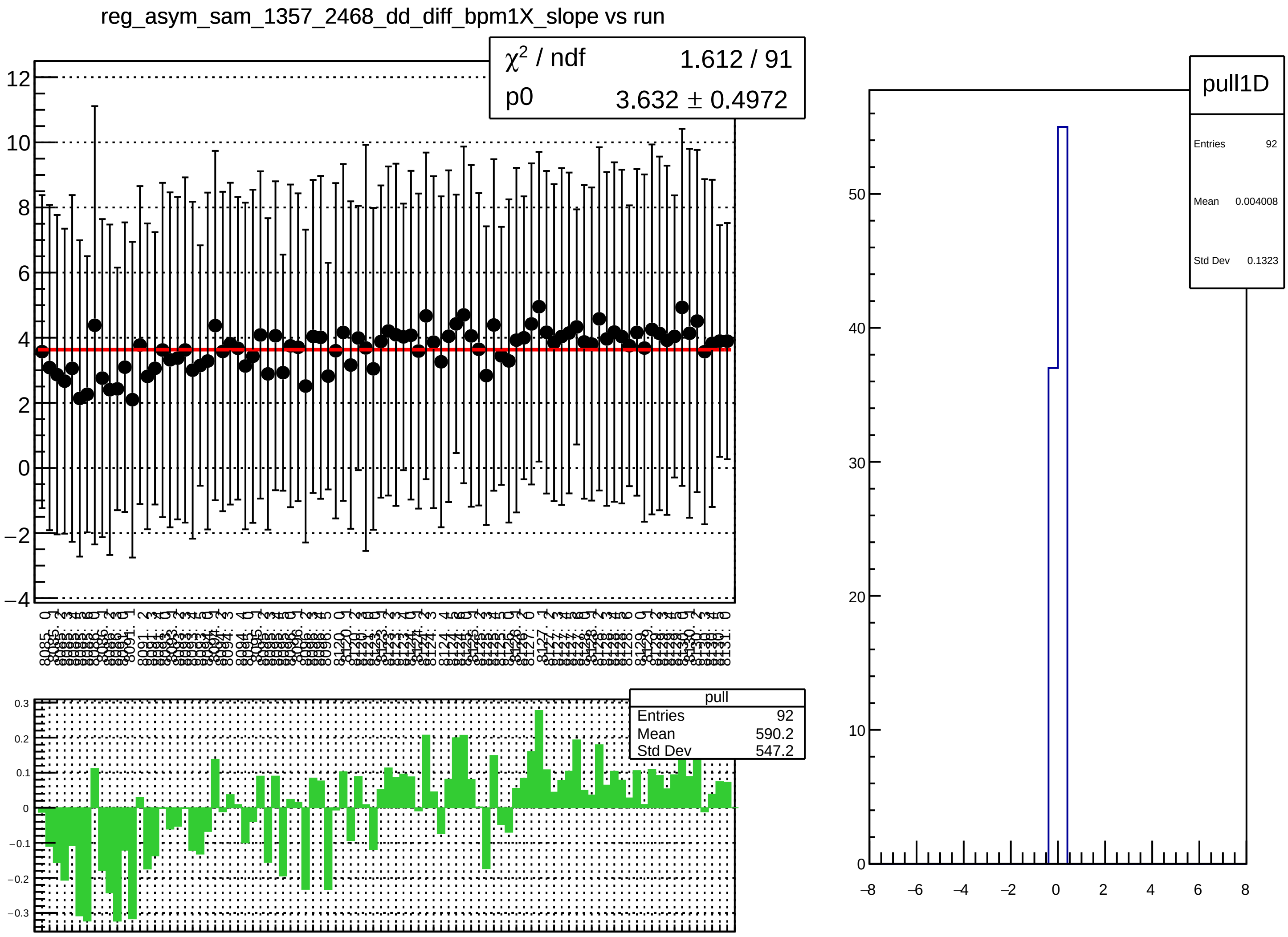
reg_asym_sam_2468_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 3.109 / 91
p0 −75.49 ± 1.799
pull
Entries 92
Mean 1507
Std Dev 1465
pull1D
Entries 92
Mean 0.002266
Std Dev 0.1838



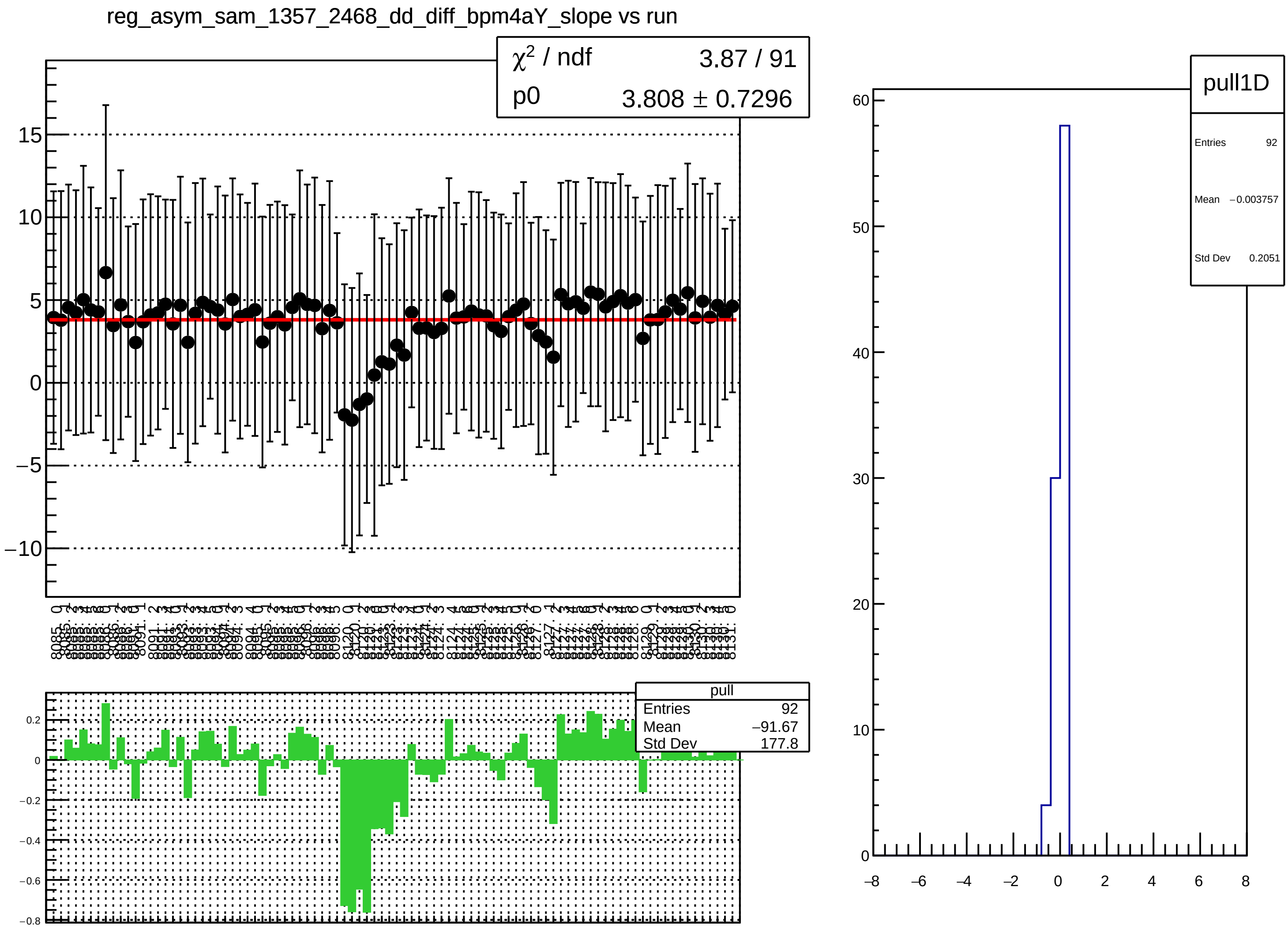
reg_asym_sam_2468_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 2.724 / 91
p0 31.62 ± 2.969
pull
Entries 92
Mean 120.4
Std Dev 135.9
pull1D
Entries 92
Mean −0.001831
Std Dev 0.1721



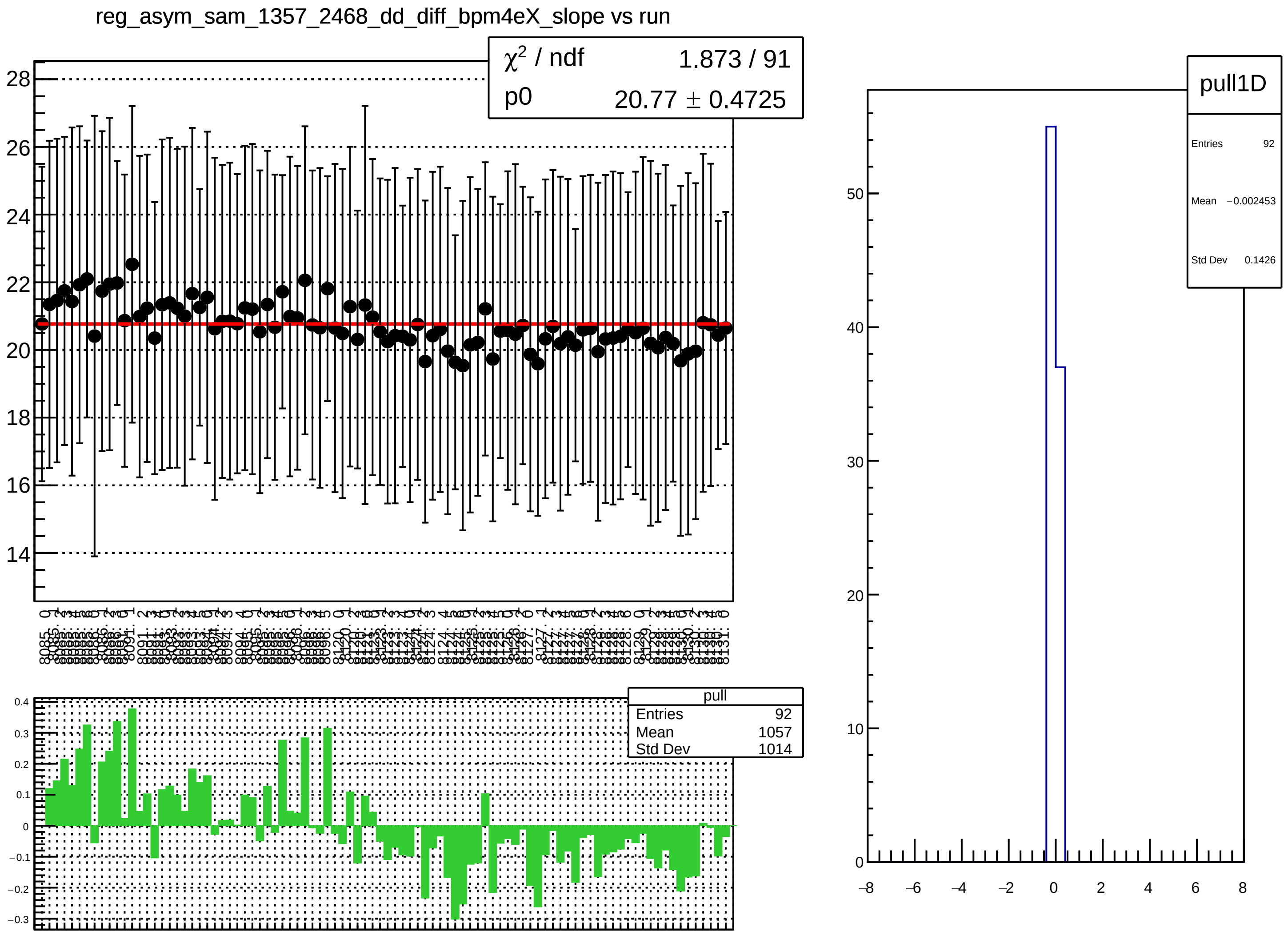
reg_asym_sam_2468_avg_diff_bpm12X_slope vs run
χ^2 / ndf 4.443 / 91
p0 0.1484 ± 0.1134
pull
Entries 92
Mean −426.3
Std Dev 453.8
pull1D
Entries 92
Mean 0.003348
Std Dev 0.2197

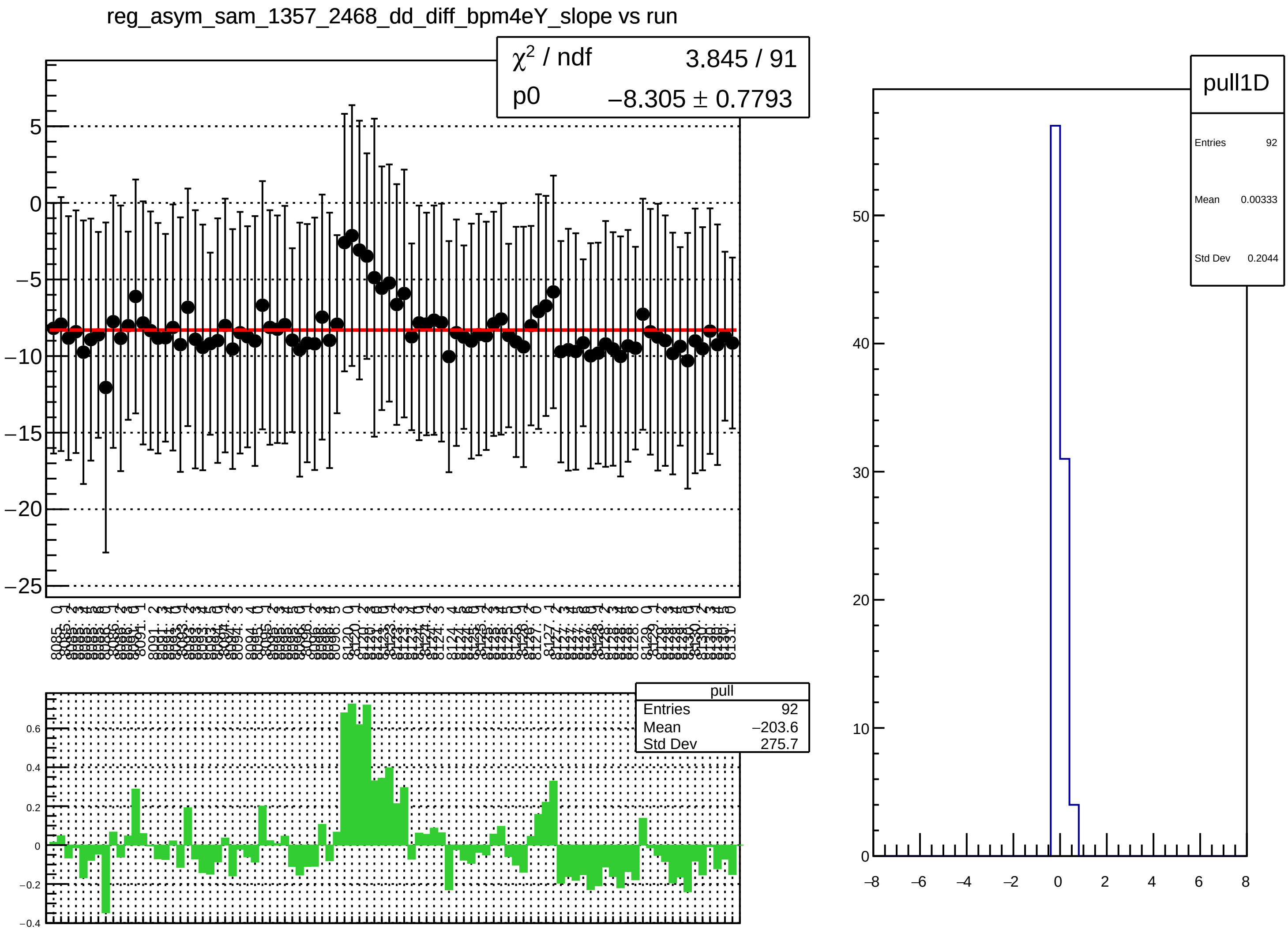


reg_asym_sam_1357_2468_dd_diff_bpm1X_slope vs run
χ^2 / ndf 1.612 / 91
p0 3.632 ± 0.4972
pull
Entries 92
Mean 590.2
Std Dev 547.2
pull1D
Entries 92
Mean 0.004008
Std Dev 0.1323

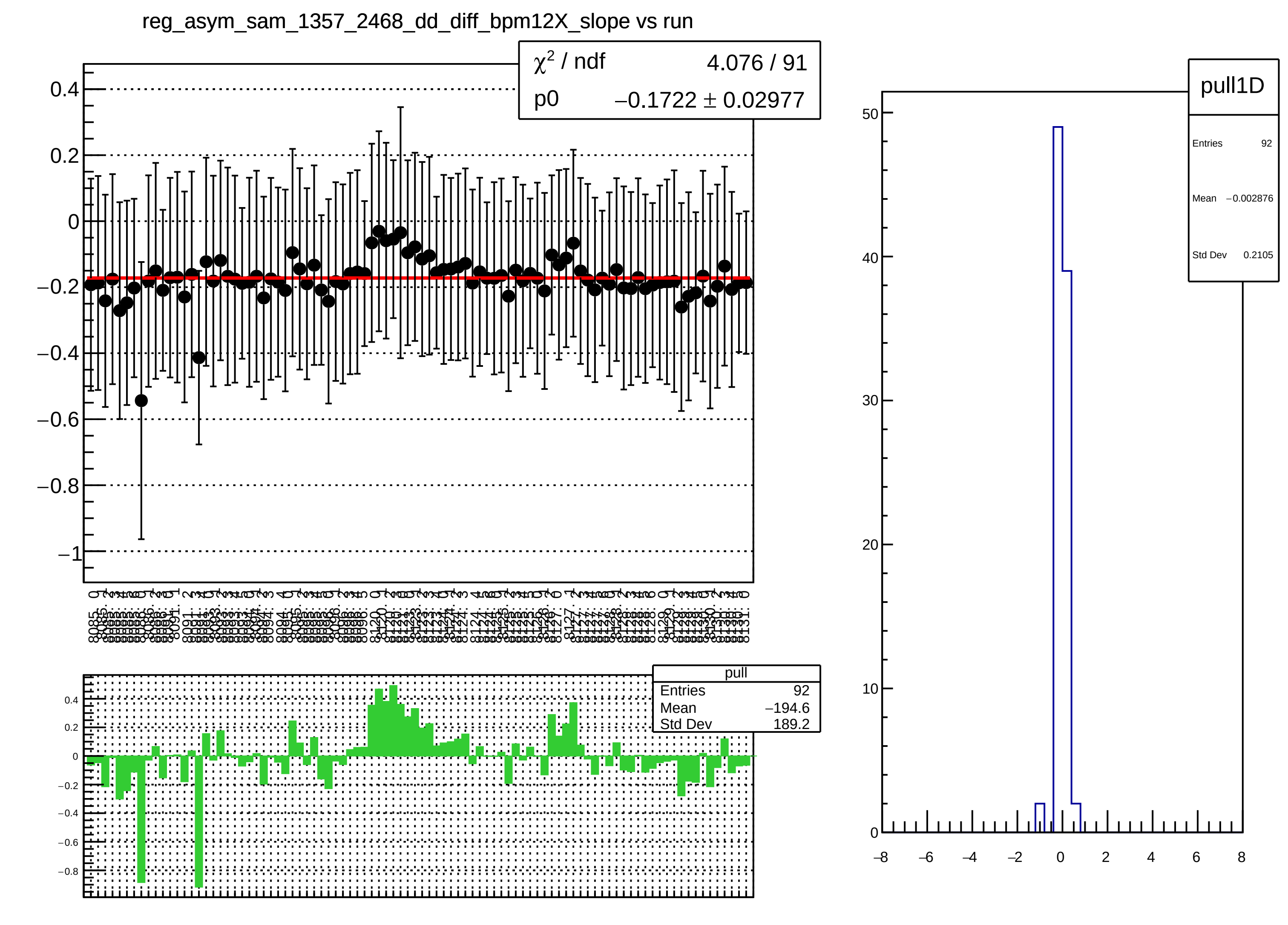


reg_asym_sam_1357_2468_dd_diff_bpm4aY_slope vs run
χ2 / ndf 3.87 / 91
p0 3.808 ± 0.7296
pull
Entries 92
Mean −91.67
Std Dev 177.8
pull1D
Entries 92
Mean −0.003757
Std Dev 0.2051

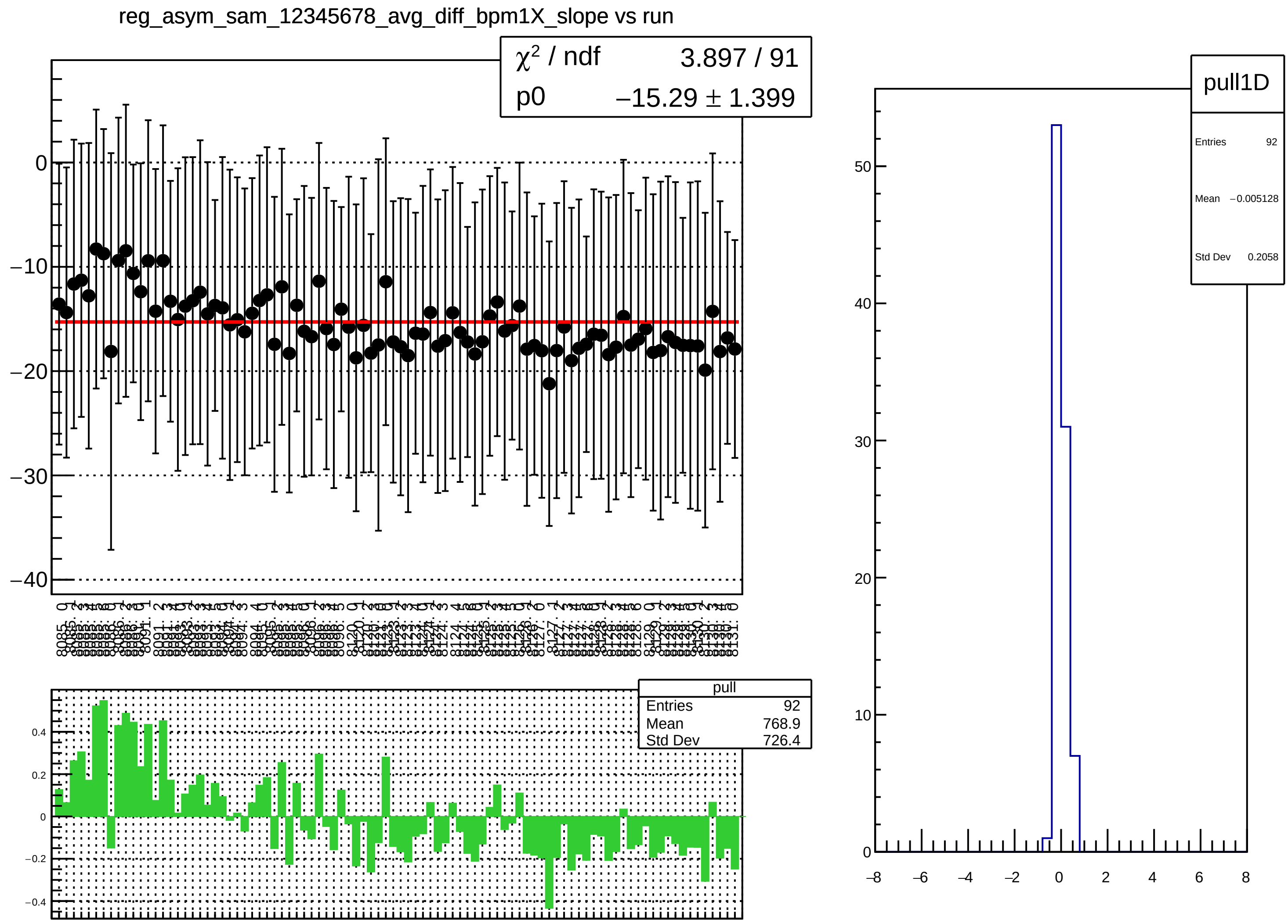

reg_asym_sam_1357_2468_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 1.873 / 91
p0 20.77 ± 0.4725
pull
Entries 92
Mean 1057
Std Dev 1014
pull1D
Entries 92
Mean −0.002453
Std Dev 0.1426



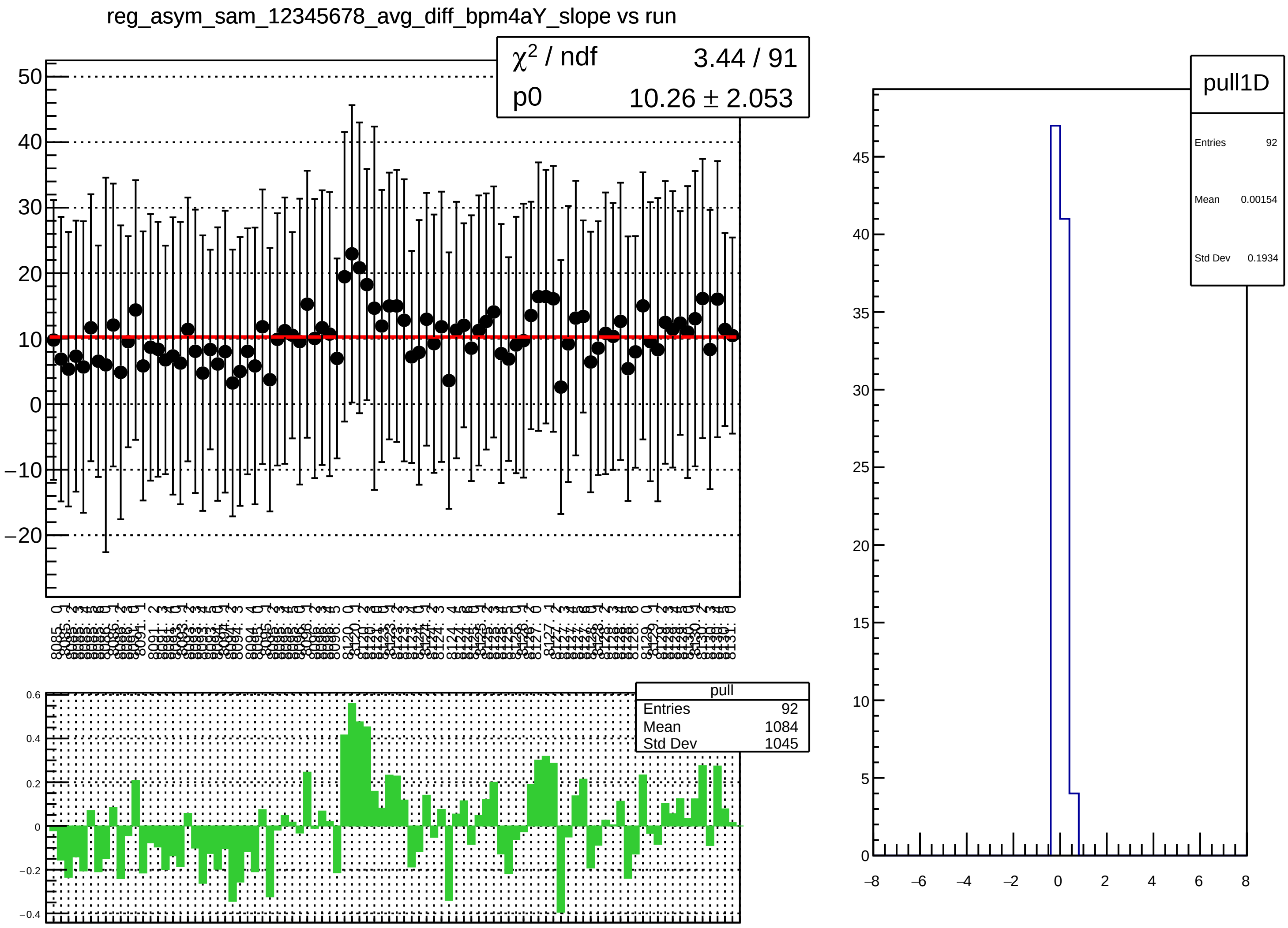
reg_asym_sam_1357_2468_dd_diff_bpm4eY_slope vs run
χ2 / ndf 3.845 / 91
p0 −8.305 ± 0.7793
pull
Entries 92
Mean −203.6
Std Dev 275.7
pull1D
Entries 92
Mean 0.00333
Std Dev 0.2044



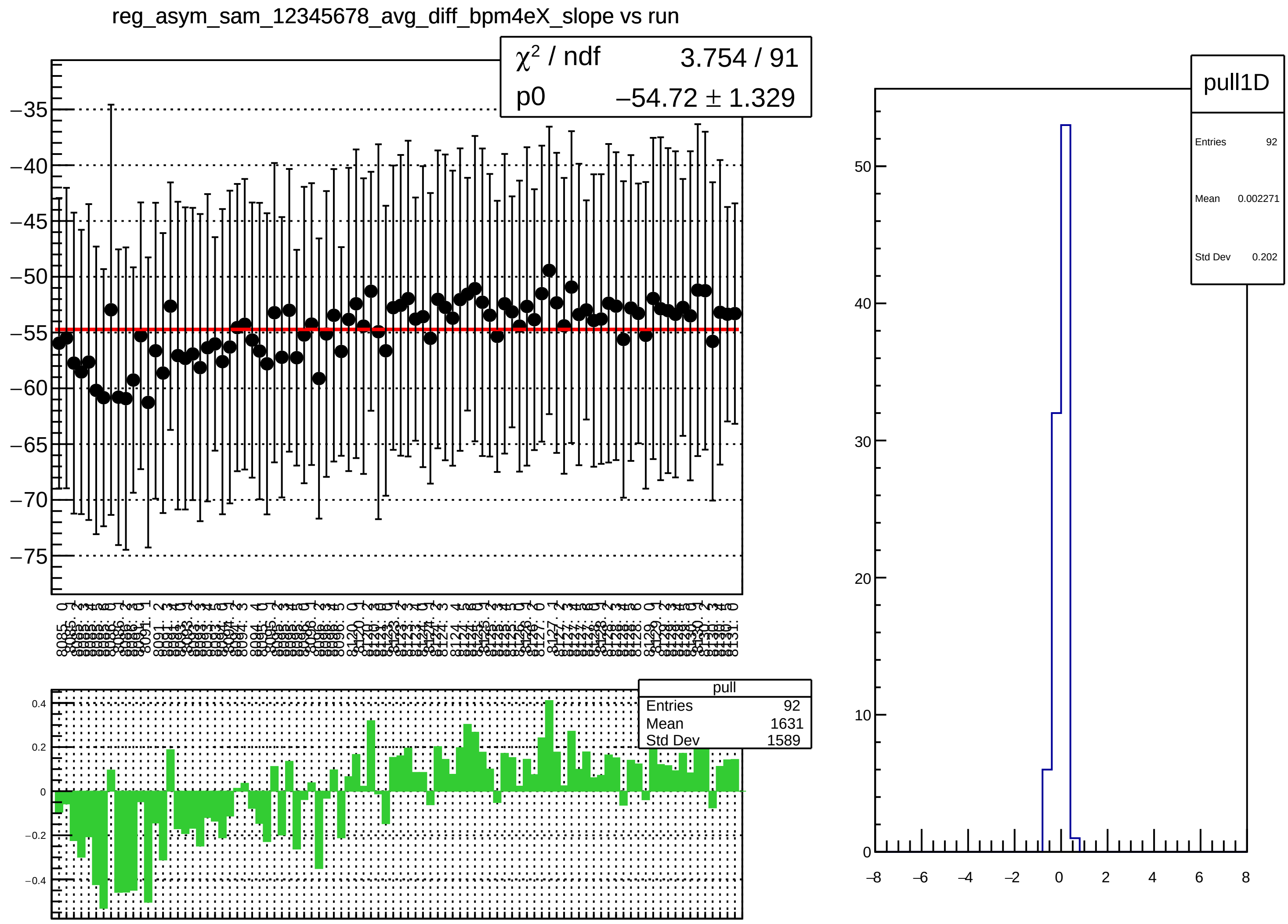
reg_asym_sam_1357_2468_dd_diff_bpm12X_slope vs run
χ^2 / ndf 4.076 / 91
p0 −0.1722 ± 0.02977
pull
Entries 92
Mean −194.6
Std Dev 189.2
pull1D
Entries 92
Mean −0.002876
Std Dev 0.2105



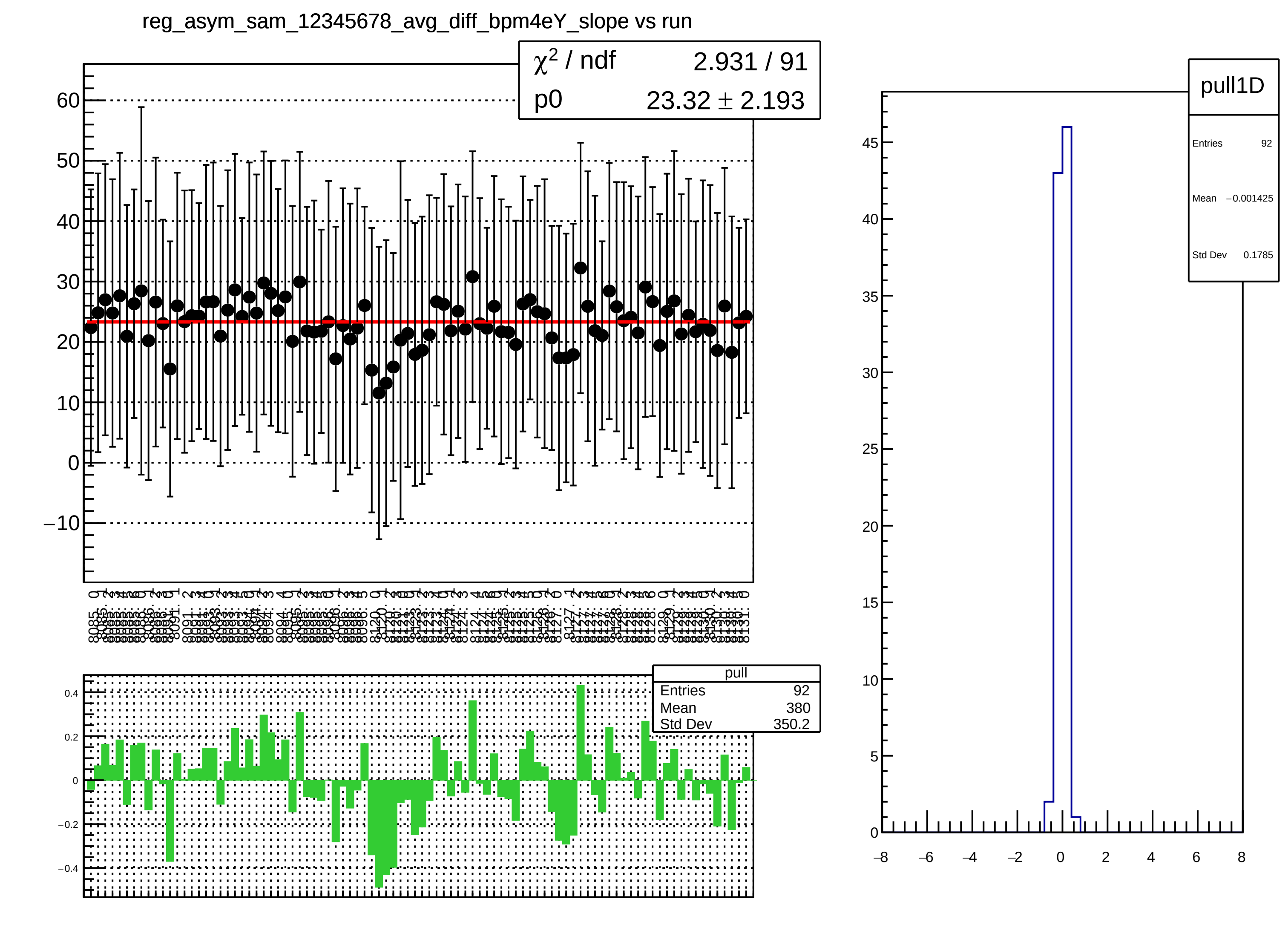
reg_asym_sam_12345678_avg_diff_bpm1X_slope vs run
χ2 / ndf 3.897 / 91
p0 −15.29 ± 1.399
pull
Entries 92
Mean 768.9
Std Dev 726.4
pull1D
Entries 92
Mean −0.005128
Std Dev 0.2058



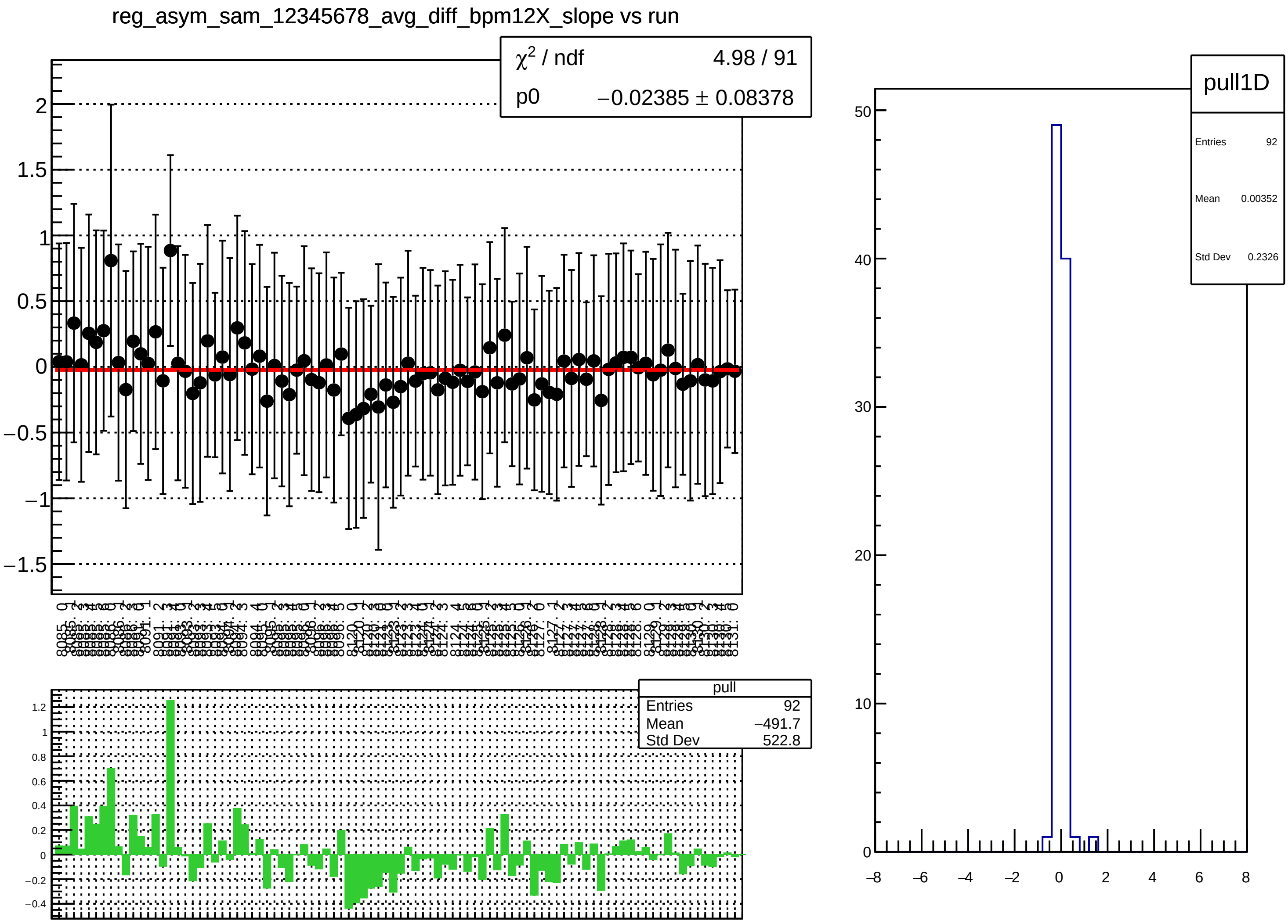
reg_asym_sam_12345678_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 3.44 / 91
p0 10.26 ± 2.053
pull
Entries 92
Mean 1084
Std Dev 1045
pull1D
Entries 92
Mean 0.00154
Std Dev 0.1934



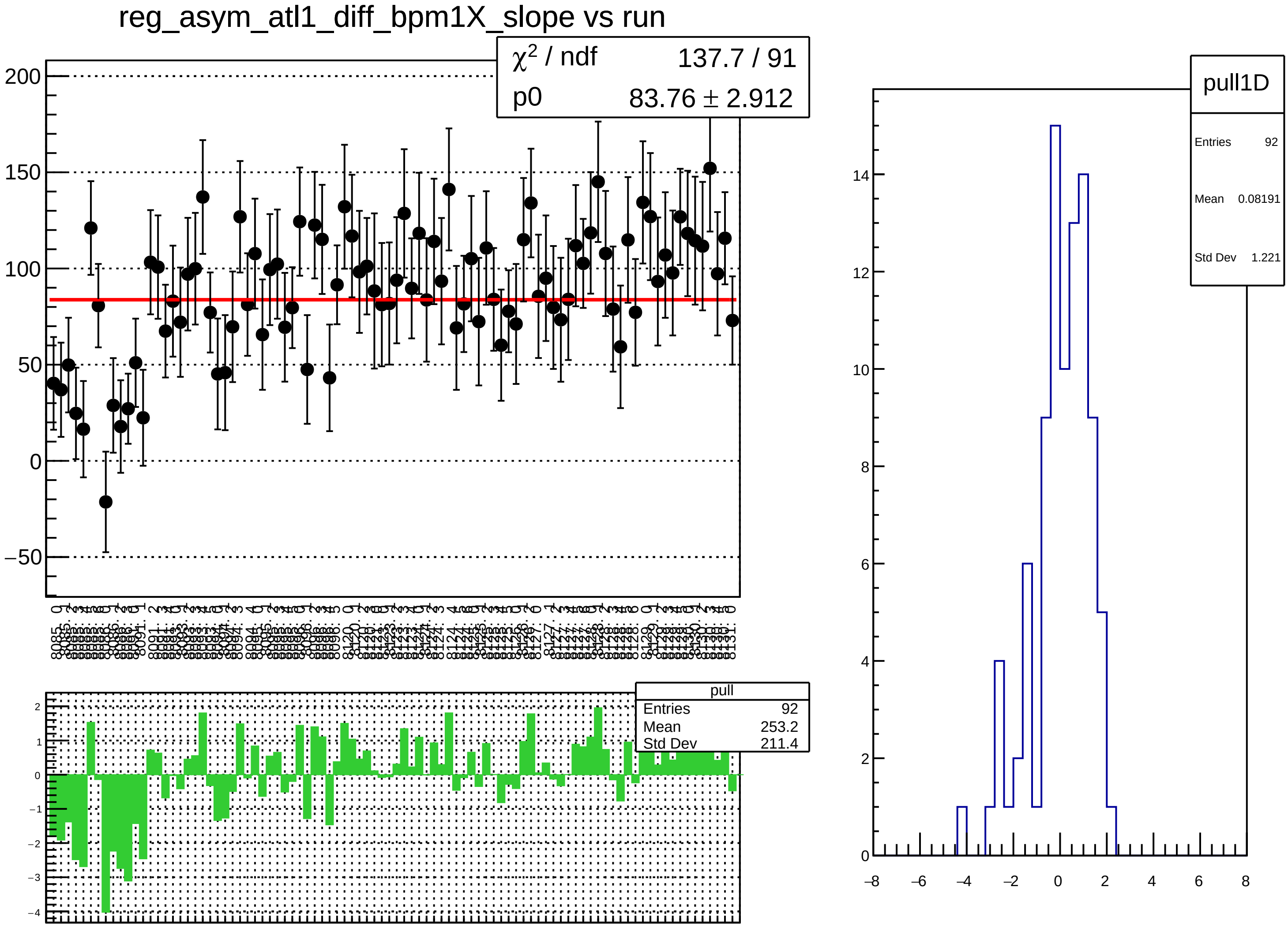
reg_asym_sam_12345678_avg_diff_bpm4eX_slope vs run
χ2 / ndf 3.754 / 91
p0 −54.72 ± 1.329
pull
Entries 92
Mean 1631
Std Dev 1589
pull1D
Entries 92
Mean 0.002271
Std Dev 0.202



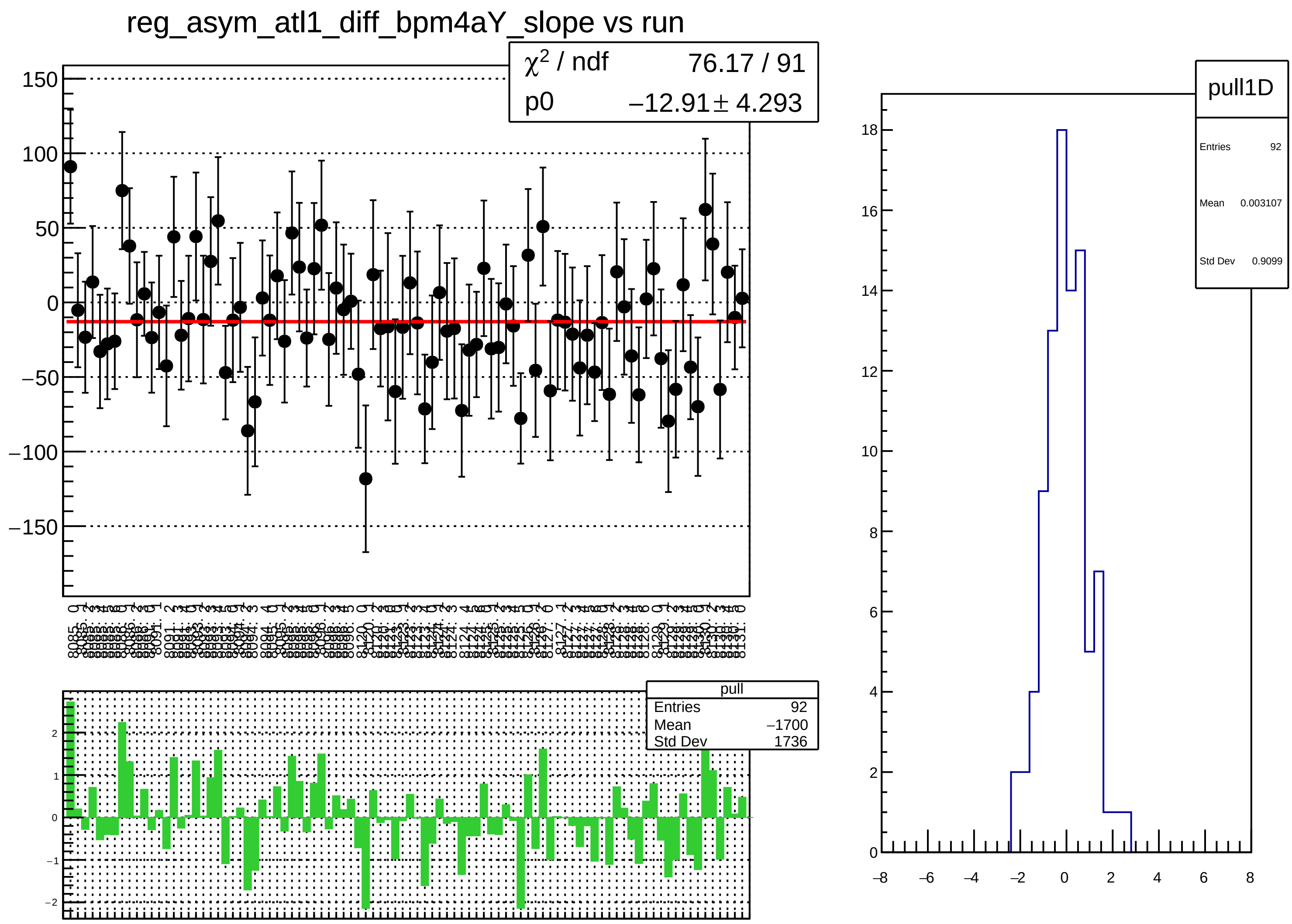
reg_asym_sam_12345678_avg_diff_bpm4eY_slope vs run
χ2 / ndf 2.931 / 91
p0 23.32 ± 2.193
pull
Entries 92
Mean 380
Std Dev 350.2
pull1D
Entries 92
Mean −0.001425
Std Dev 0.1785

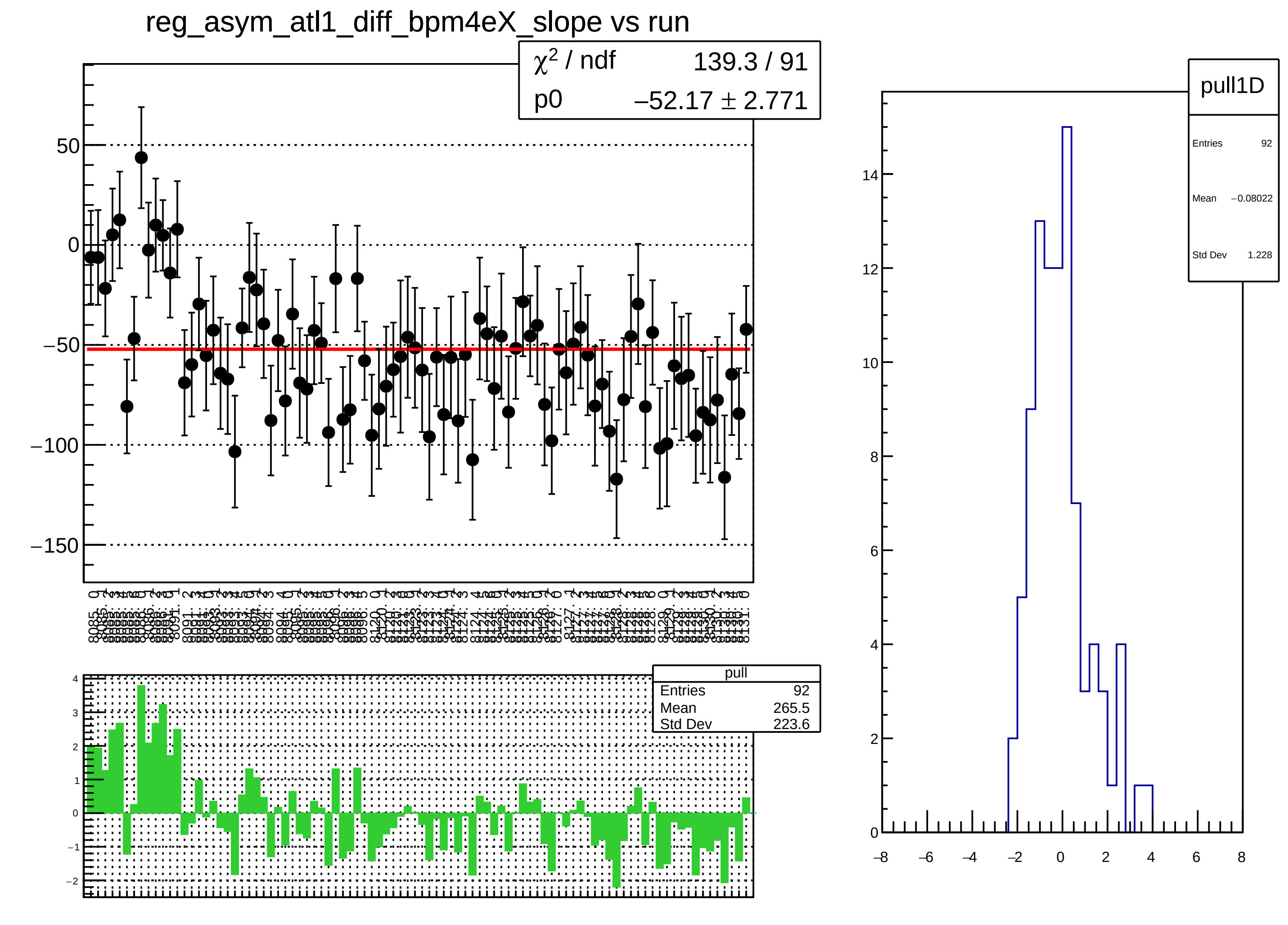


reg_asym_sam_12345678_avg_diff_bpm12X_slope vs run
χ^2 / ndf 4.98 / 91
p0 −0.02385 ± 0.08378
pull
Entries 92
Mean −491.7
Std Dev 522.8
pull1D
Entries 92
Mean 0.00352
Std Dev 0.2326

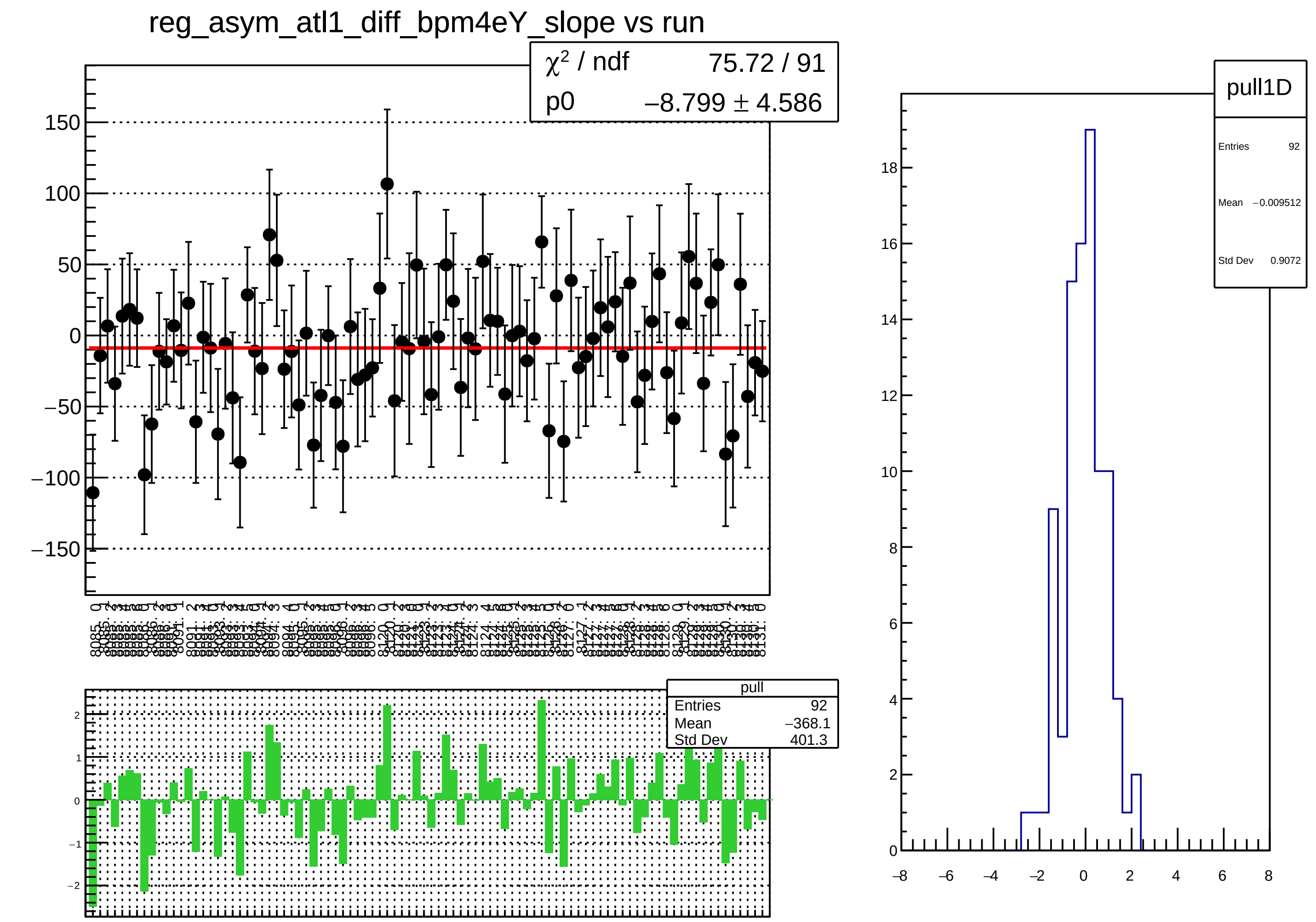


reg_asym_atl1_diff_bpm1X_slope vs run
χ2 / ndf 137.7 / 91
p0 83.76 ± 2.912
pull
Entries 92
Mean 253.2
Std Dev 211.4
pull1D
Entries 92
Mean 0.08191
Std Dev 1.221

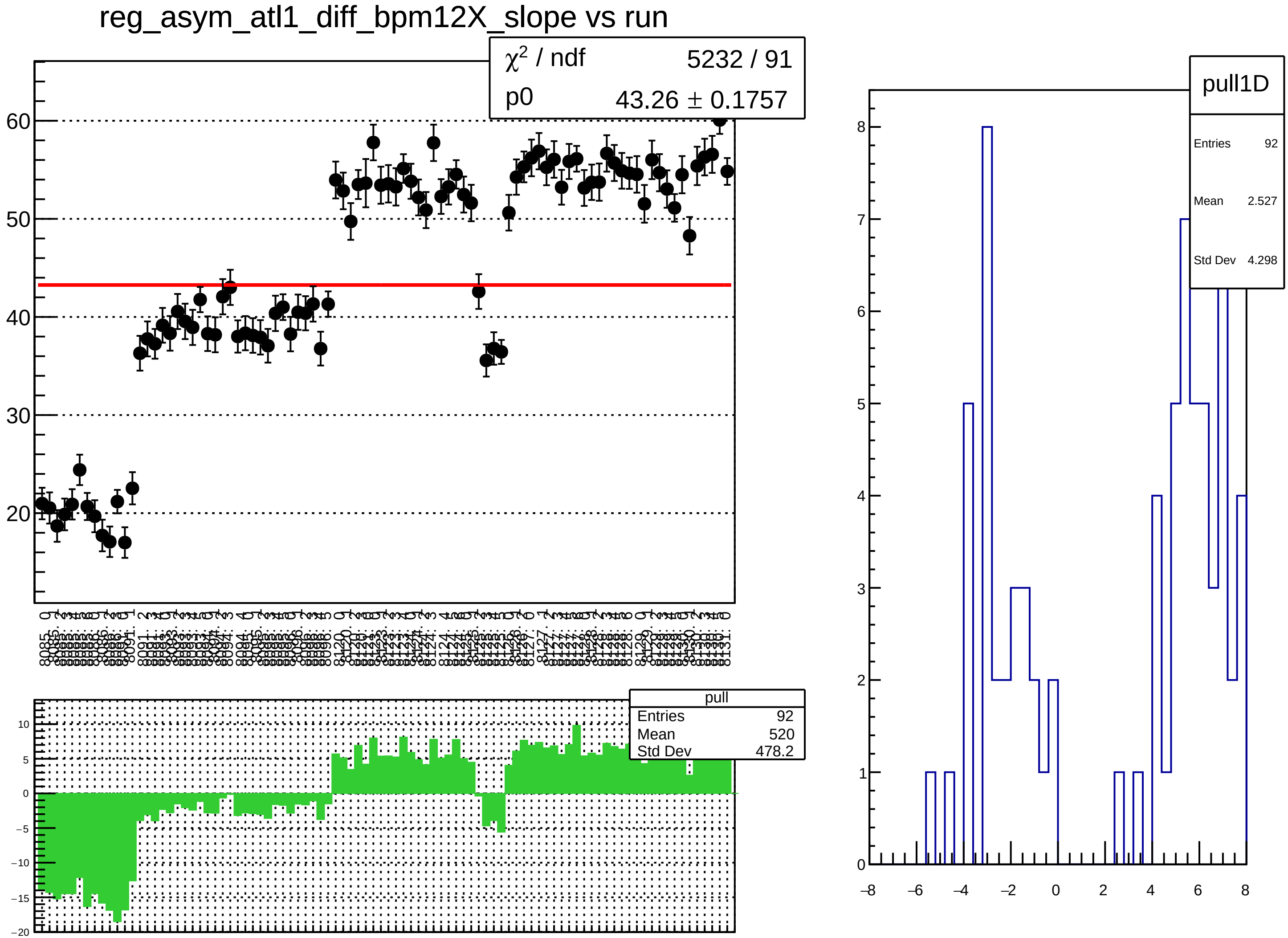

reg_asym_atl1_diff_bpm4aY_slope vs run
χ2 / ndf 76.17 / 91
p0 −12.91 ± 4.293
pull
Entries 92
Mean −1700
Std Dev 1736
pull1D
Entries 92
Mean 0.003107
Std Dev 0.9099



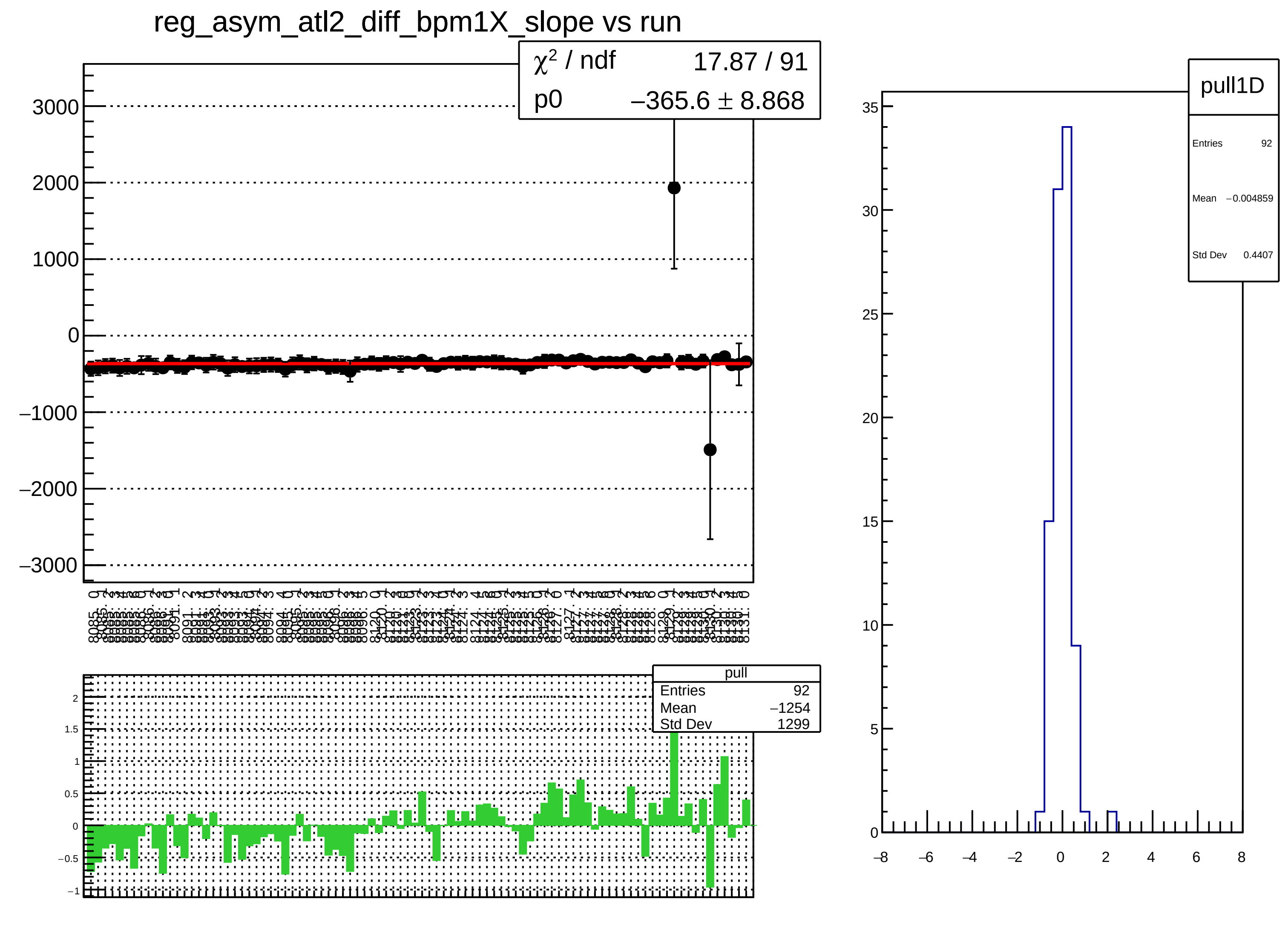
reg_asym_atl1_diff_bpm4eX_slope vs run
χ^2 / ndf 139.3 / 91
p0 −52.17 ± 2.771
pull
Entries 92
Mean 265.5
Std Dev 223.6
pull1D
Entries 92
Mean −0.08022
Std Dev 1.228



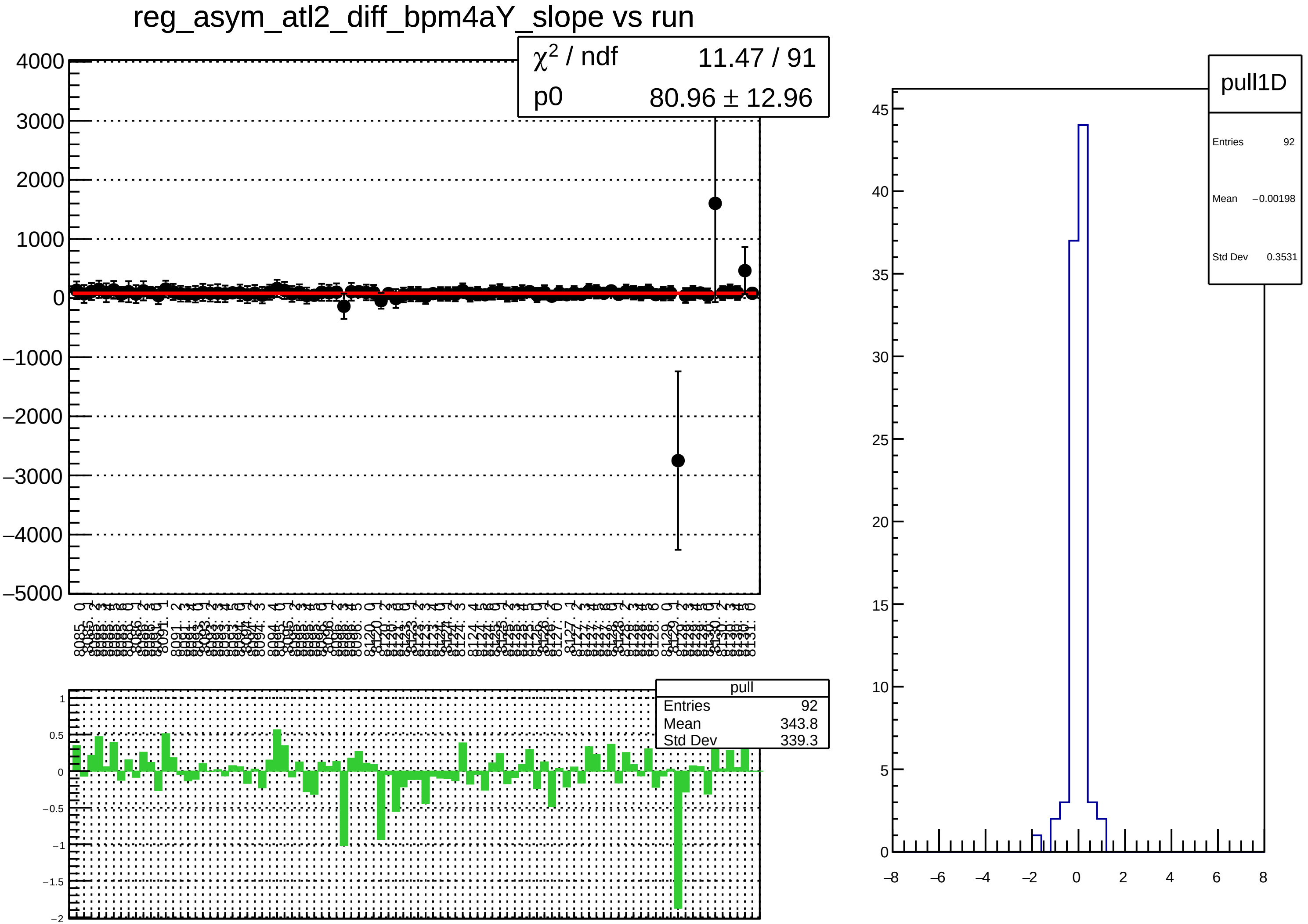
reg_asym_atl1_diff_bpm4eY_slope vs run
χ^2 / ndf 75.72 / 91
p0 −8.799 ± 4.586
pull
Entries 92
Mean −368.1
Std Dev 401.3
pull1D
Entries 92
Mean −0.009512
Std Dev 0.9072

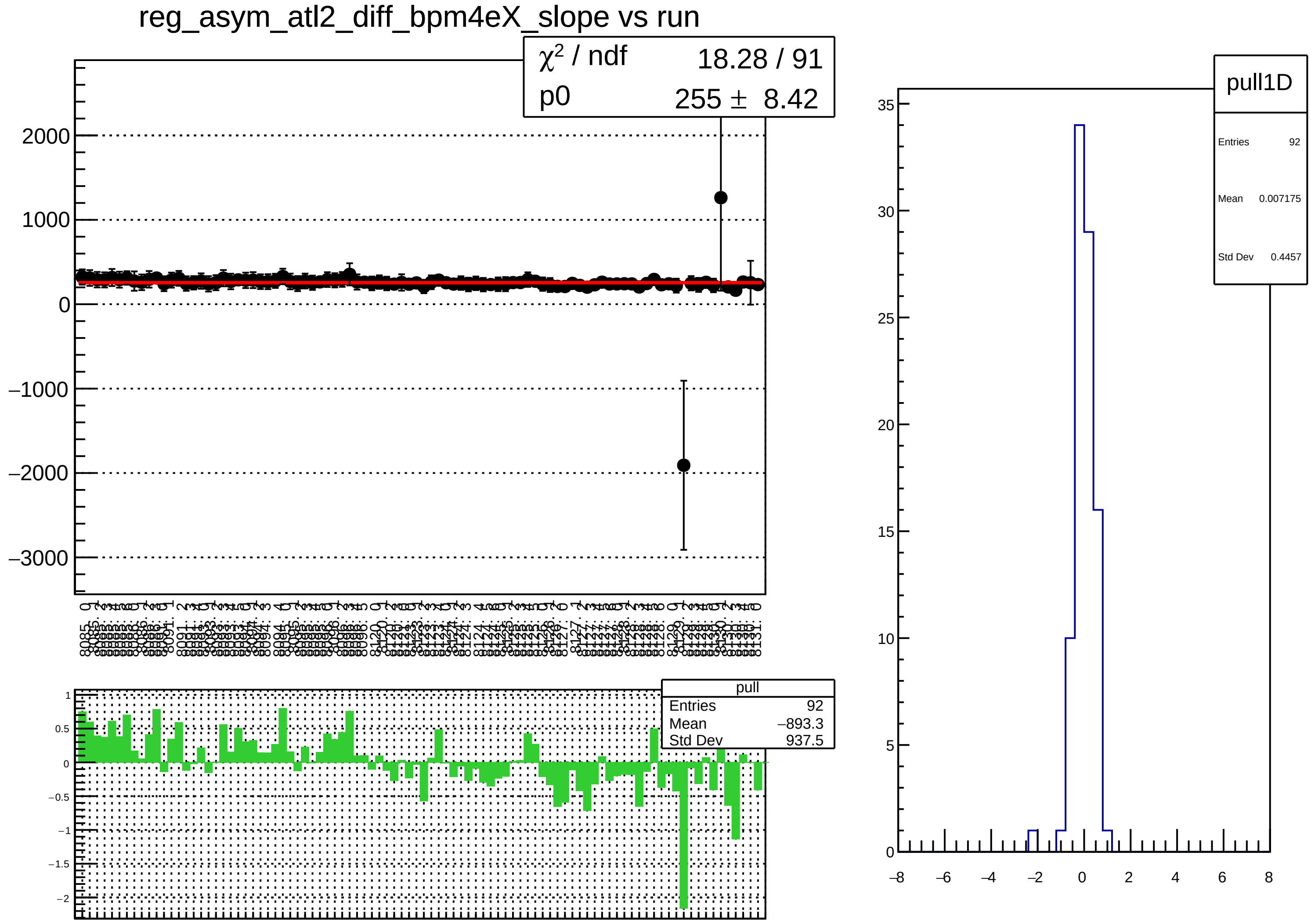


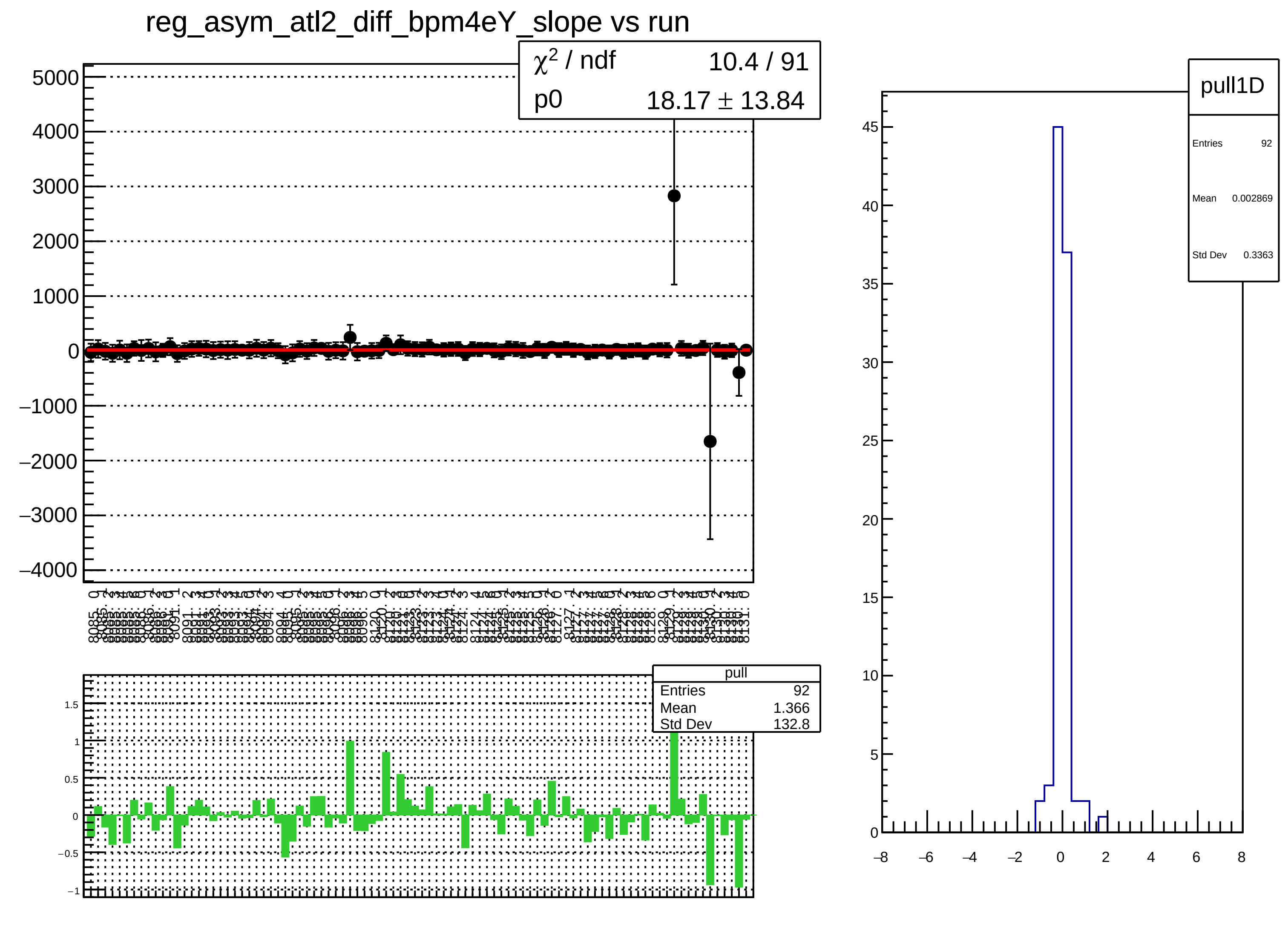
reg_asym_atl1_diff_bpm12X_slope vs run
χ^2 / ndf 5232 / 91
p0 43.26 ± 0.1757
pull
Entries 92
Mean 520
Std Dev 478.2
pull1D
Entries 92
Mean 2.527
Std Dev 4.298



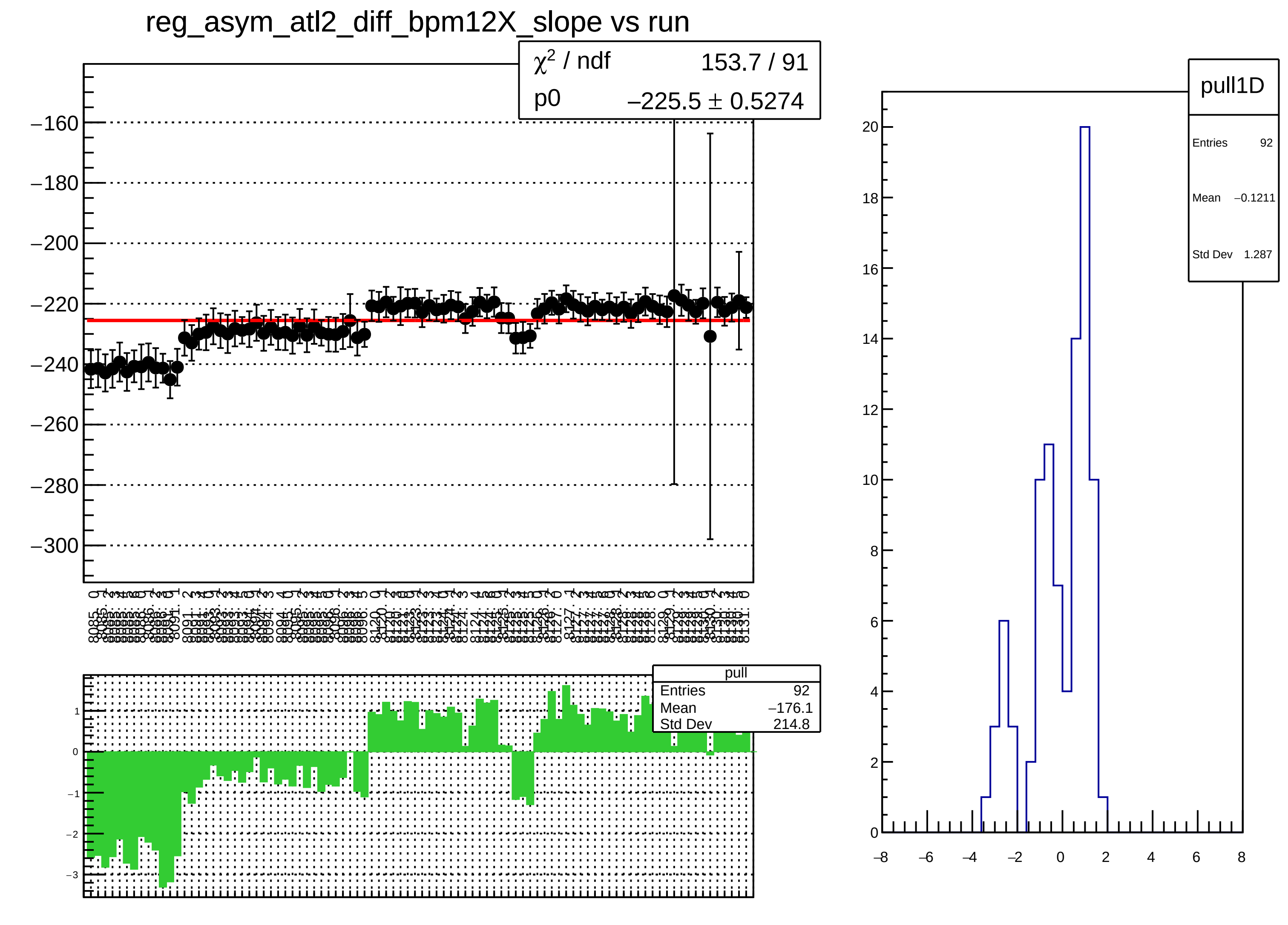
reg_asym_atl2_diff_bpm1X_slope vs run
χ^2 / ndf 17.87 / 91
p0 −365.6 ± 8.868
pull
Entries 92
Mean −1254
Std Dev 1299
pull1D
Entries 92
Mean −0.004859
Std Dev 0.4407


reg_asym_atl2_diff_bpm4aY_slope vs run
χ2 / ndf 11.47 / 91
p0 80.96 ± 12.96
pull
Entries 92
Mean 343.8
Std Dev 339.3
pull1D
Entries 92
Mean −0.00198
Std Dev 0.3531

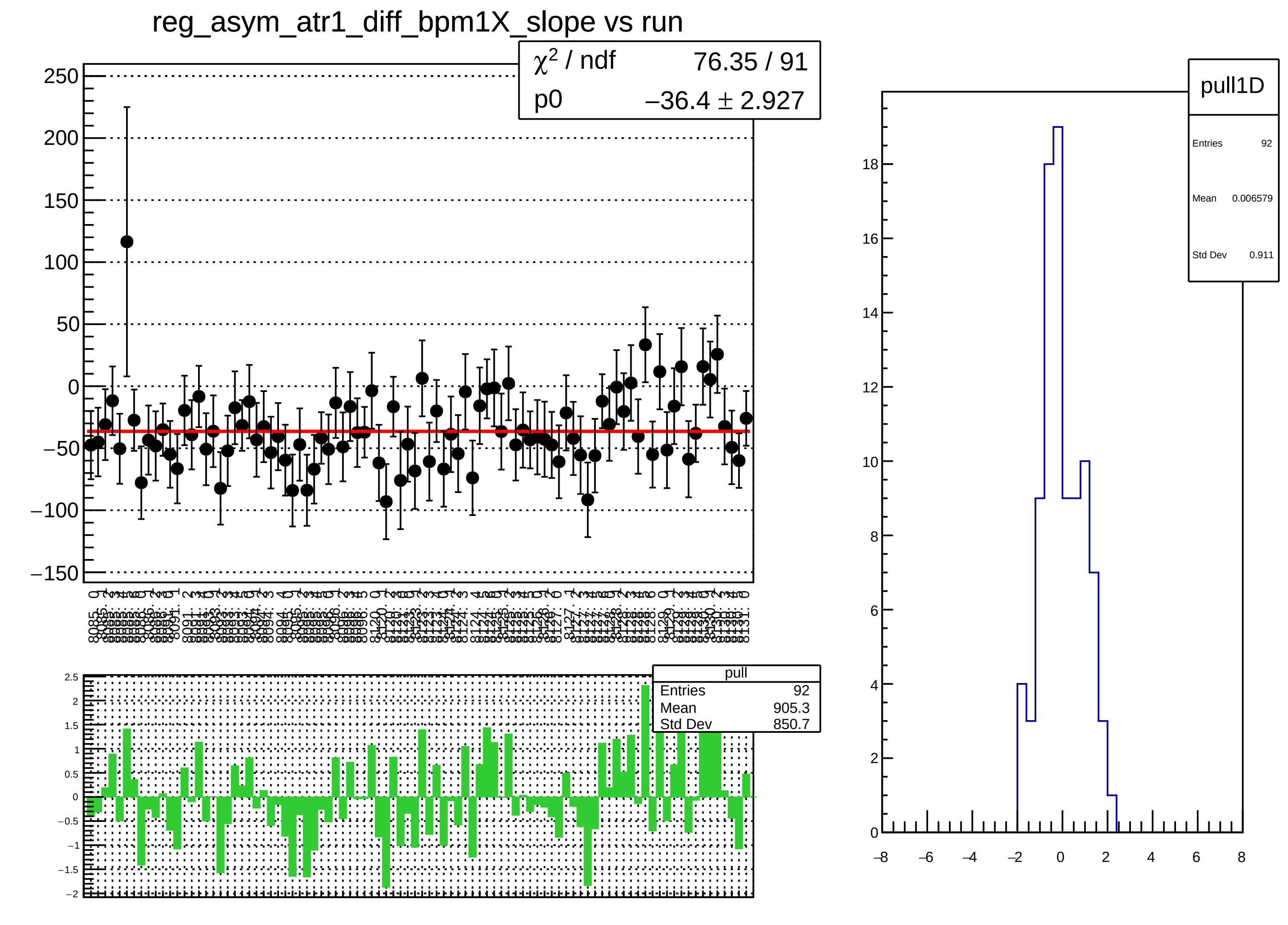

reg_asym_atl2_diff_bpm4eX_slope vs run
χ^2 / ndf 18.28 / 91
p0 255 ± 8.42
pull
Entries 92
Mean −893.3
Std Dev 937.5
pull1D
Entries 92
Mean 0.007175
Std Dev 0.4457



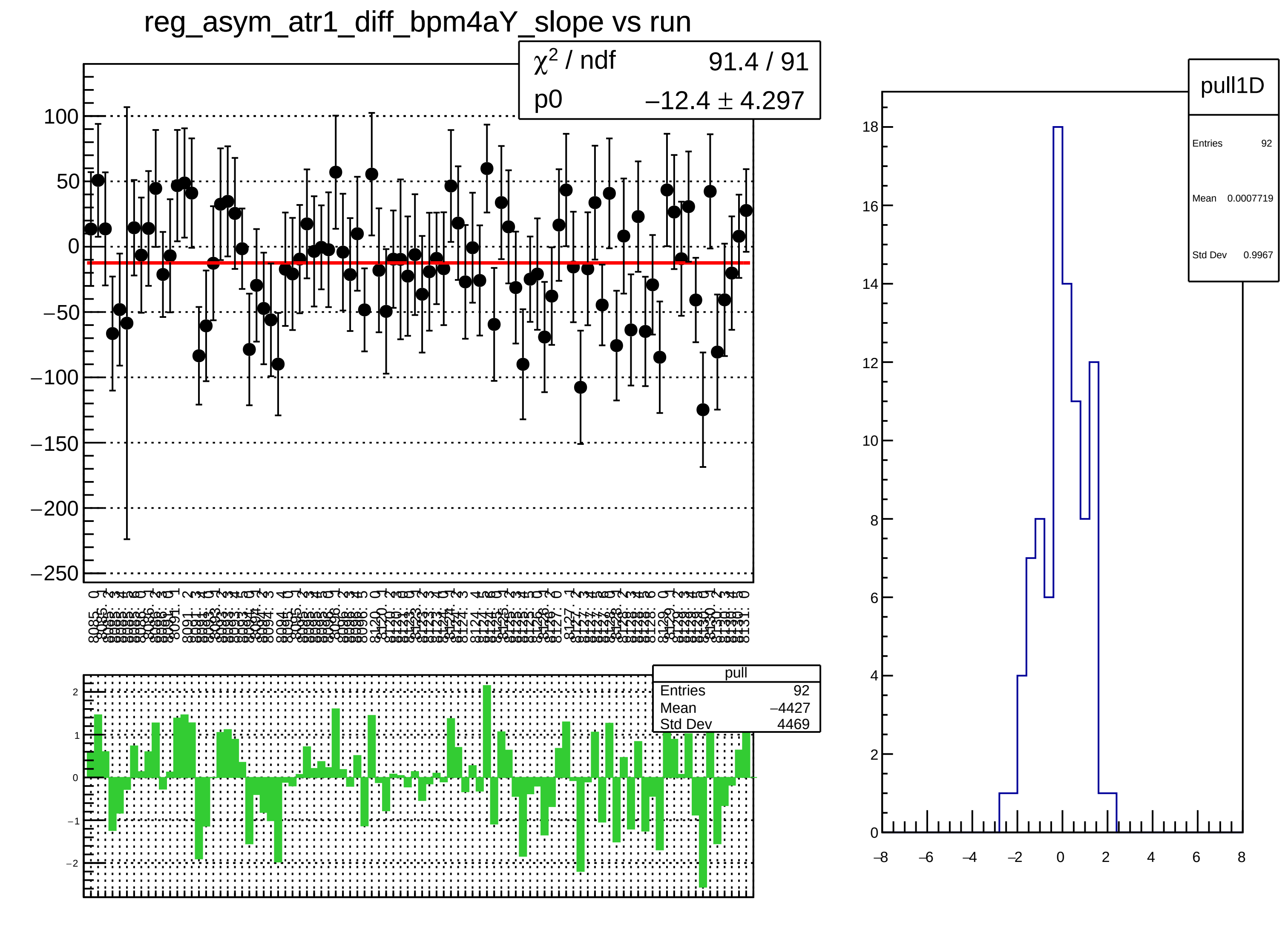
reg_asym_atl2_diff_bpm4eY_slope vs run
χ2 / ndf 10.4 / 91
p0 18.17 ± 13.84
pull
Entries 92
Mean 1.366
Std Dev 132.8
pull1D
Entries 92
Mean 0.002869
Std Dev 0.3363



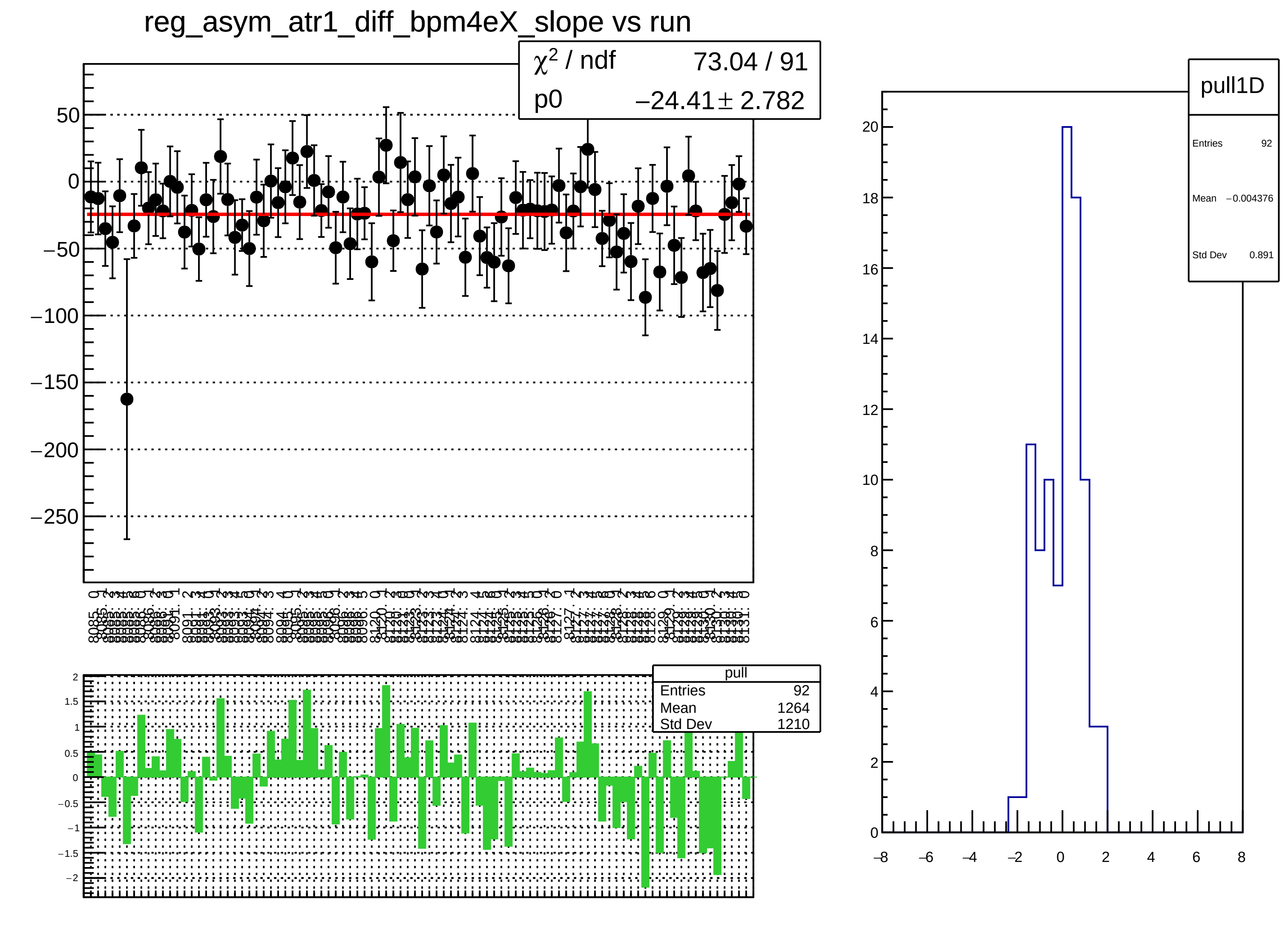
reg_asym_atl2_diff_bpm12X_slope vs run
χ^2 / ndf 153.7 / 91
p0 −225.5 ± 0.5274
pull
Entries 92
Mean −176.1
Std Dev 214.8
pull1D
Entries 92
Mean −0.1211
Std Dev 1.287



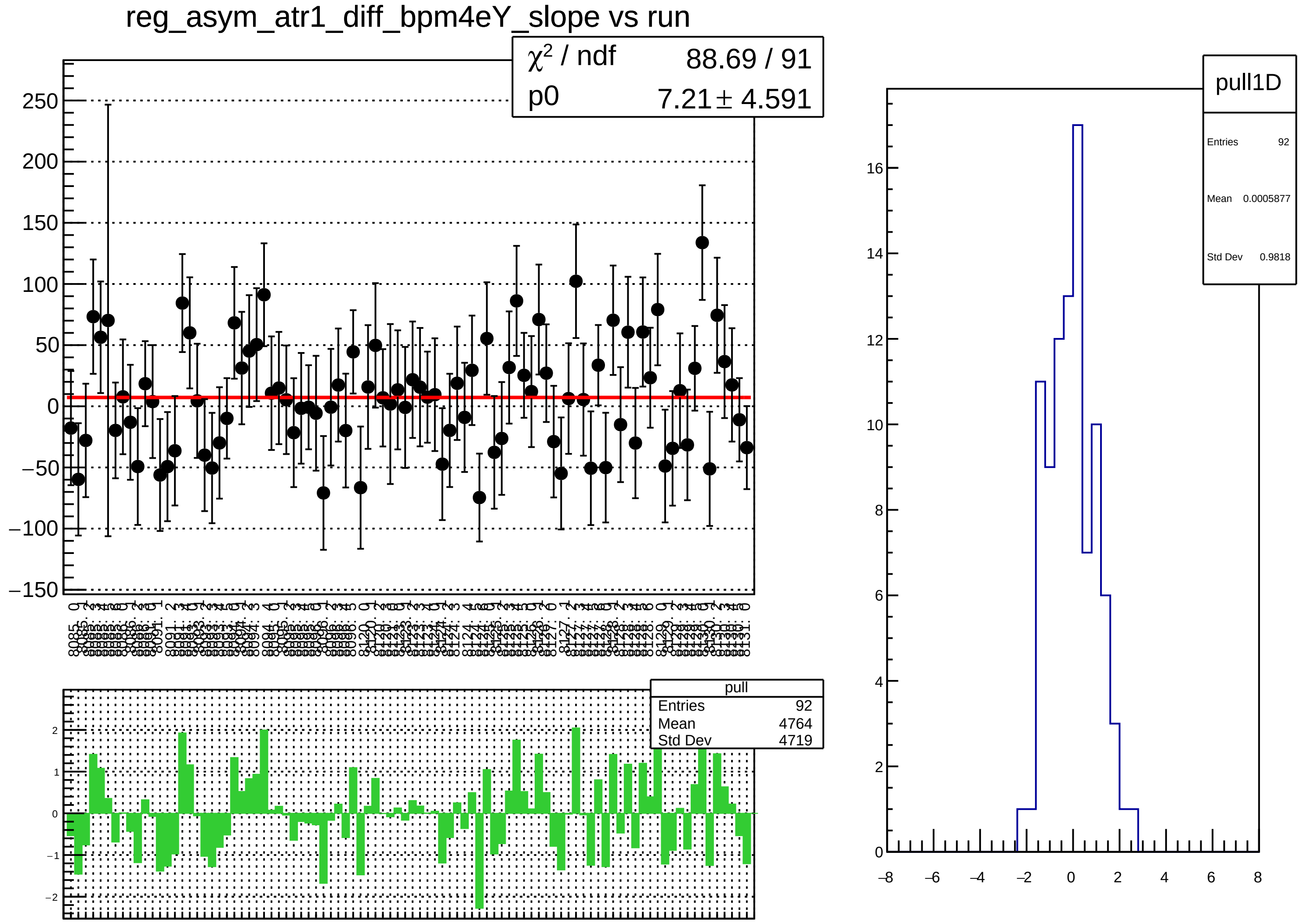
reg_asym_atr1_diff_bpm1X_slope vs run
χ2 / ndf 76.35 / 91
p0 −36.4 ± 2.927
pull
Entries 92
Mean 905.3
Std Dev 850.7
pull1D
Entries 92
Mean 0.006579
Std Dev 0.911



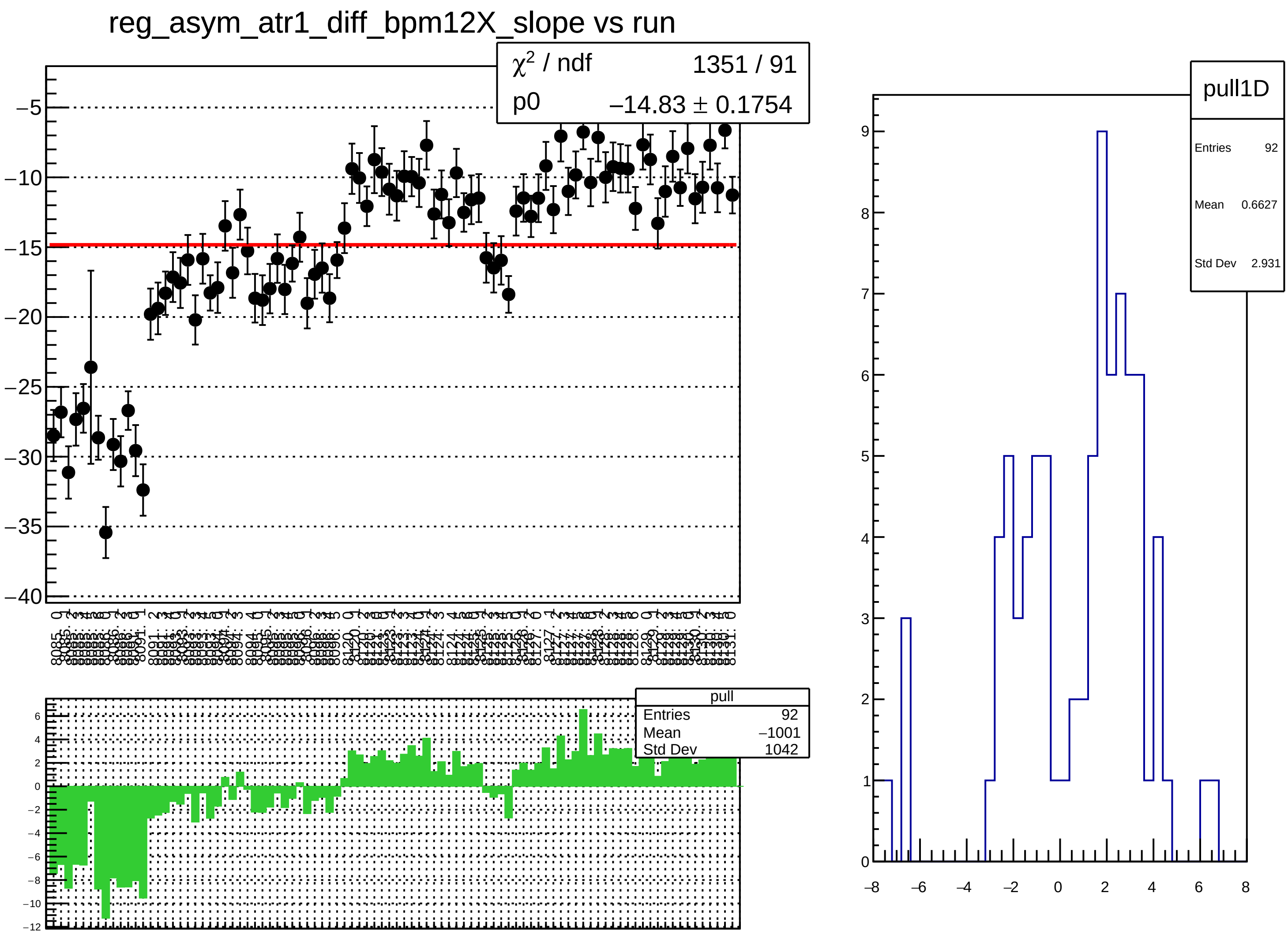
reg_asym_atr1_diff_bpm4aY_slope vs run
χ2 / ndf 91.4 / 91
p0 −12.4 ± 4.297
pull
Entries 92
Mean −4427
Std Dev 4469
pull1D
Entries 92
Mean 0.0007719
Std Dev 0.9967



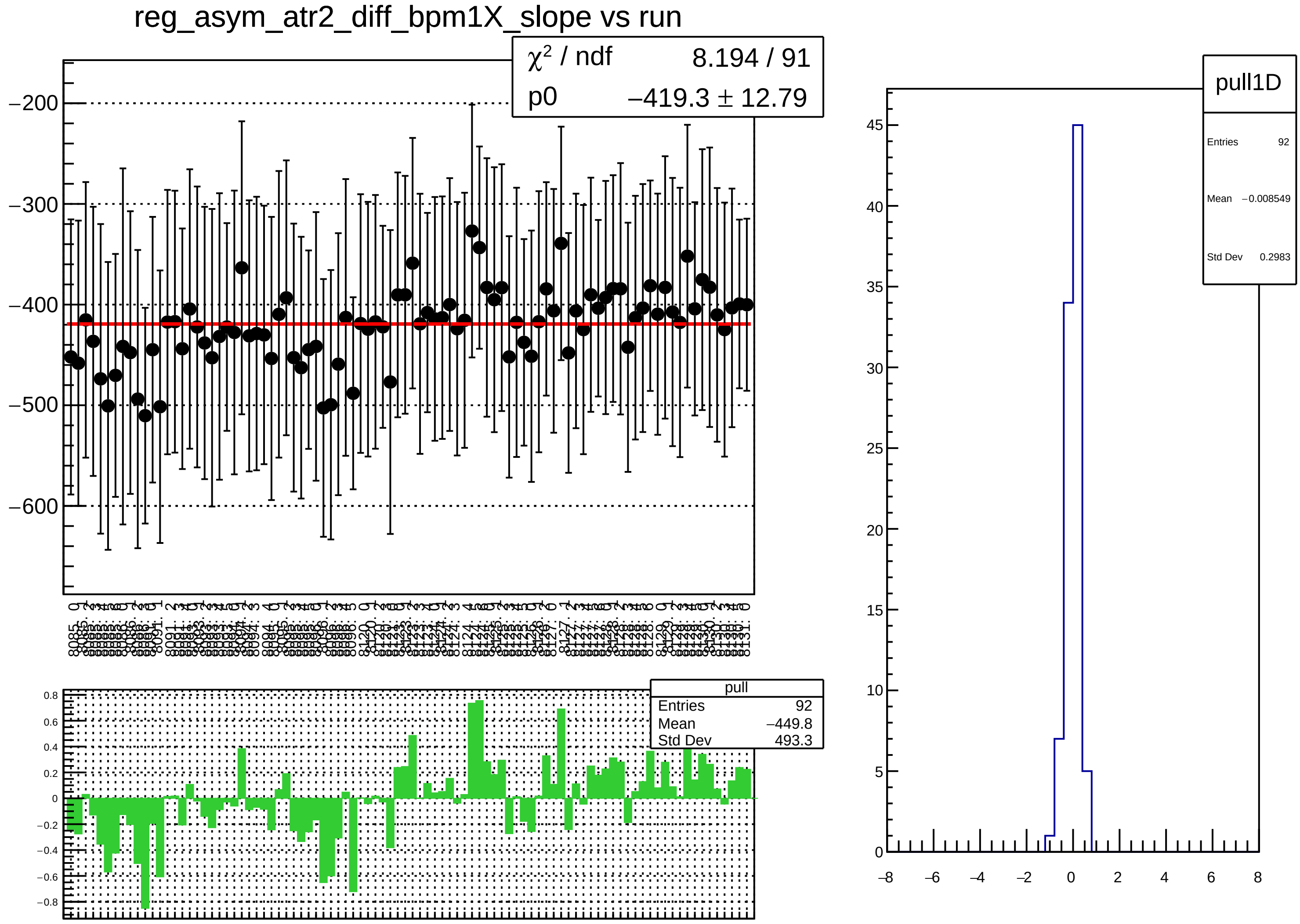
reg_asym_atr1_diff_bpm4eX_slope vs run
χ^2 / ndf 73.04 / 91
p0 −24.41 ± 2.782
pull
Entries 92
Mean 1264
Std Dev 1210
pull1D
Entries 92
Mean −0.004376
Std Dev 0.891



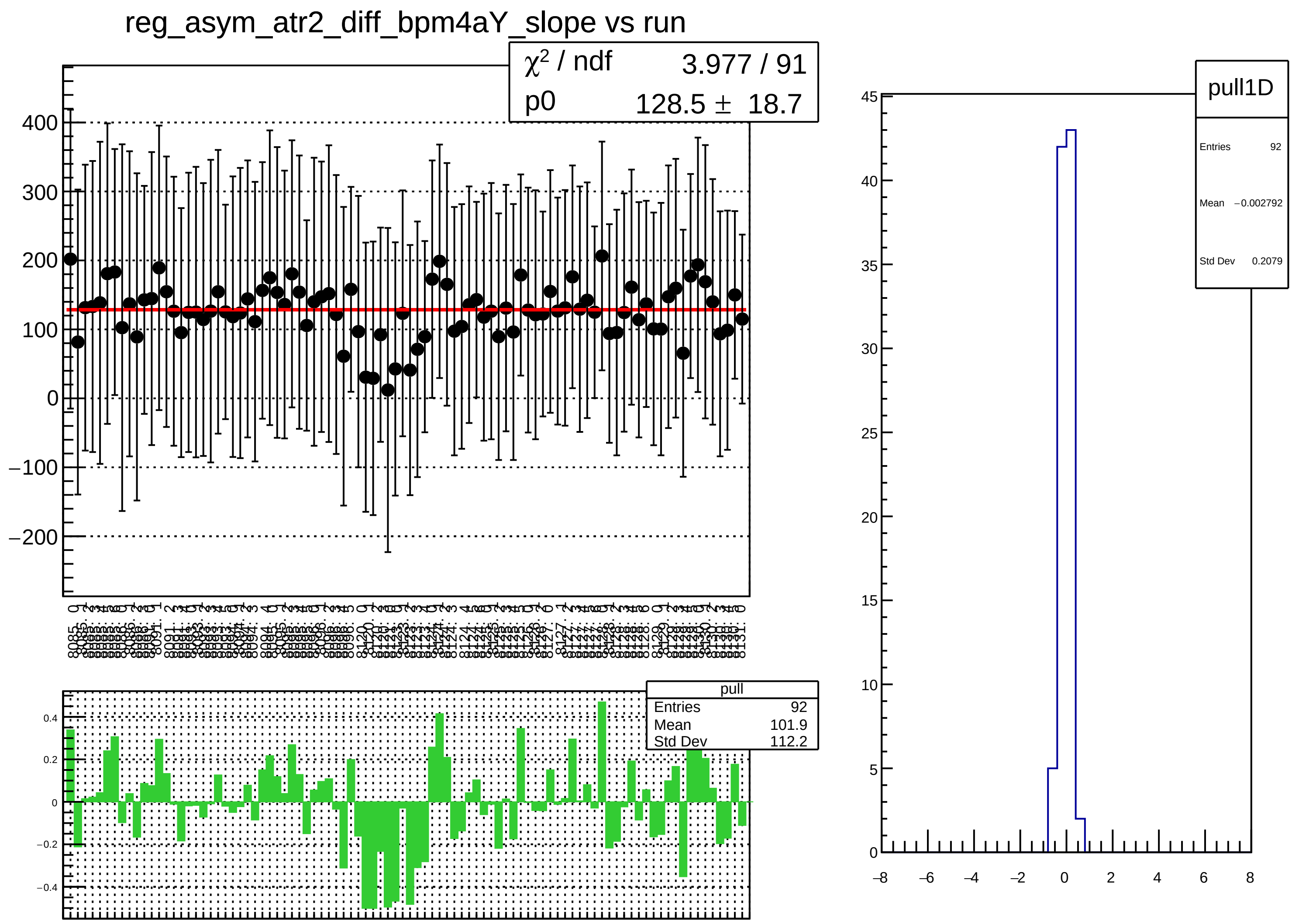
reg_asym_atr1_diff_bpm4eY_slope vs run
χ^2 / ndf 88.69 / 91
p0 7.21 ± 4.591
pull
Entries 92
Mean 4764
Std Dev 4719
pull1D
Entries 92
Mean 0.0005877
Std Dev 0.9818

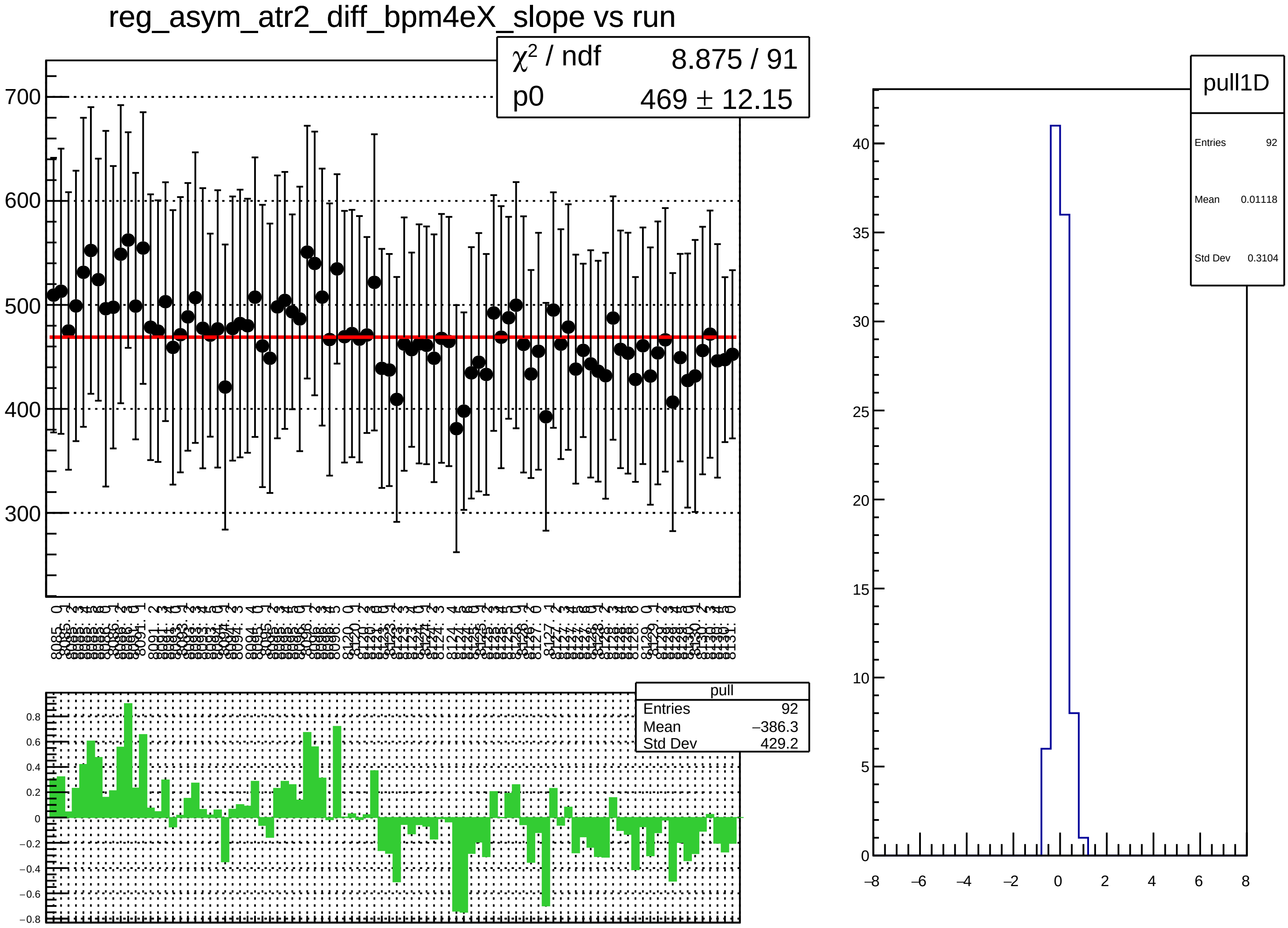


reg_asym_atr1_diff_bpm12X_slope vs run
χ^2 / ndf 1351 / 91
p0 −14.83 ± 0.1754
pull
Entries 92
Mean −1001
Std Dev 1042
pull1D
Entries 92
Mean 0.6627
Std Dev 2.931

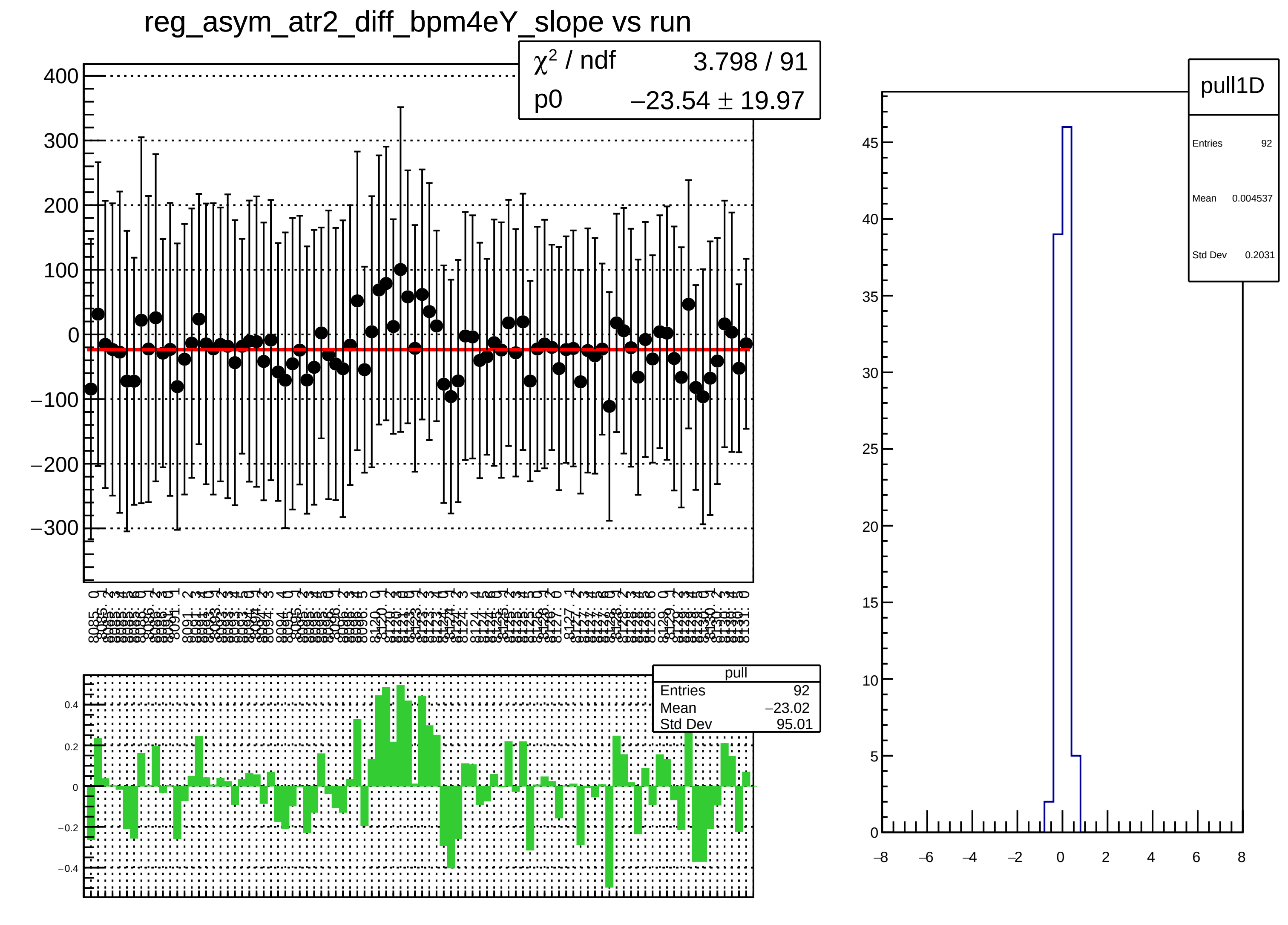


reg_asym_atr2_diff_bpm1X_slope vs run
χ^2 / ndf 8.194 / 91
p0 −419.3 ± 12.79
pull
Entries 92
Mean −449.8
Std Dev 493.3
pull1D
Entries 92
Mean −0.008549
Std Dev 0.2983

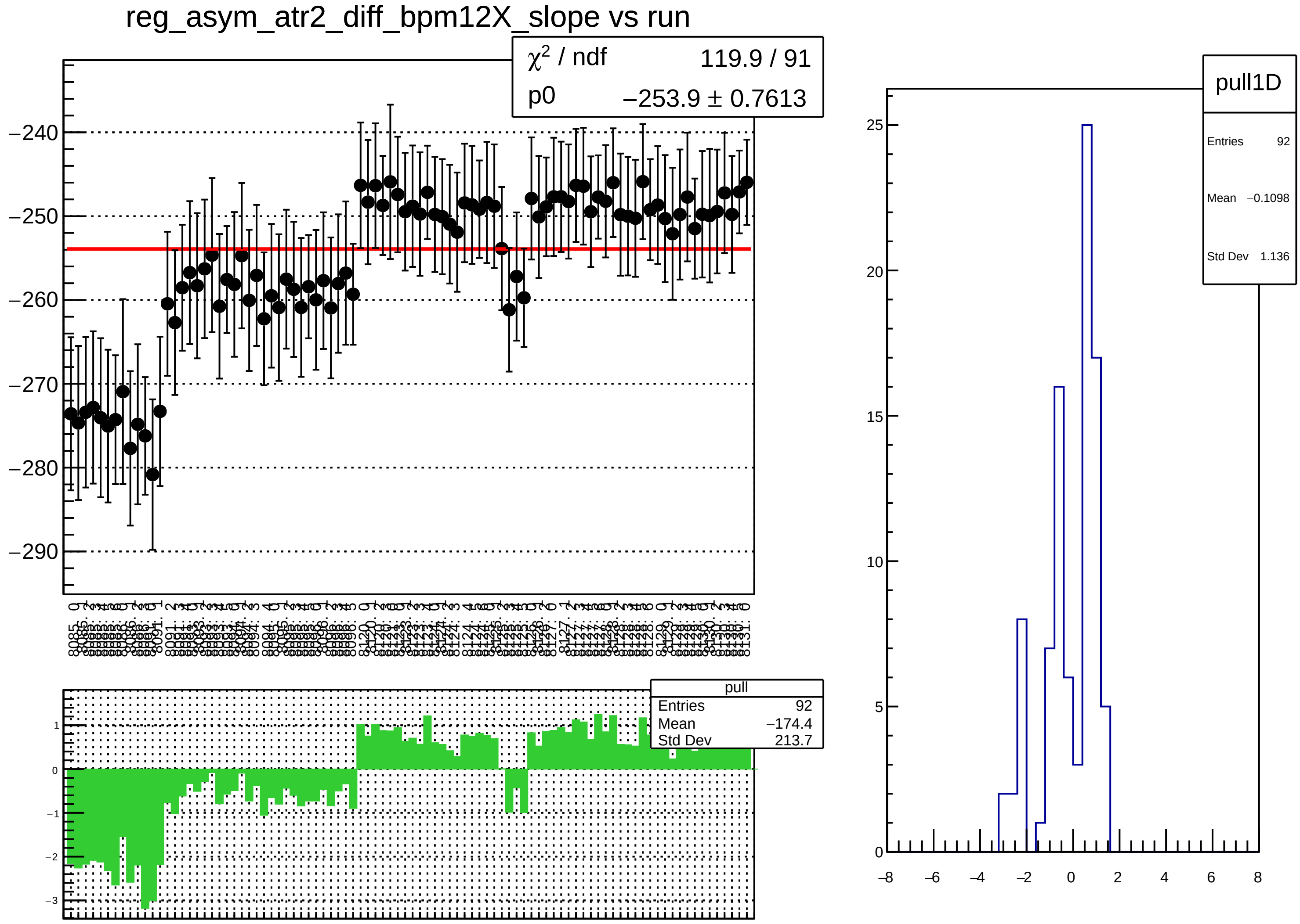

reg_asym_atr2_diff_bpm4aY_slope vs run
χ2 / ndf 3.977 / 91
p0 128.5 ± 18.7
pull
Entries 92
Mean 101.9
Std Dev 112.2
pull1D
Entries 92
Mean −0.002792
Std Dev 0.2079



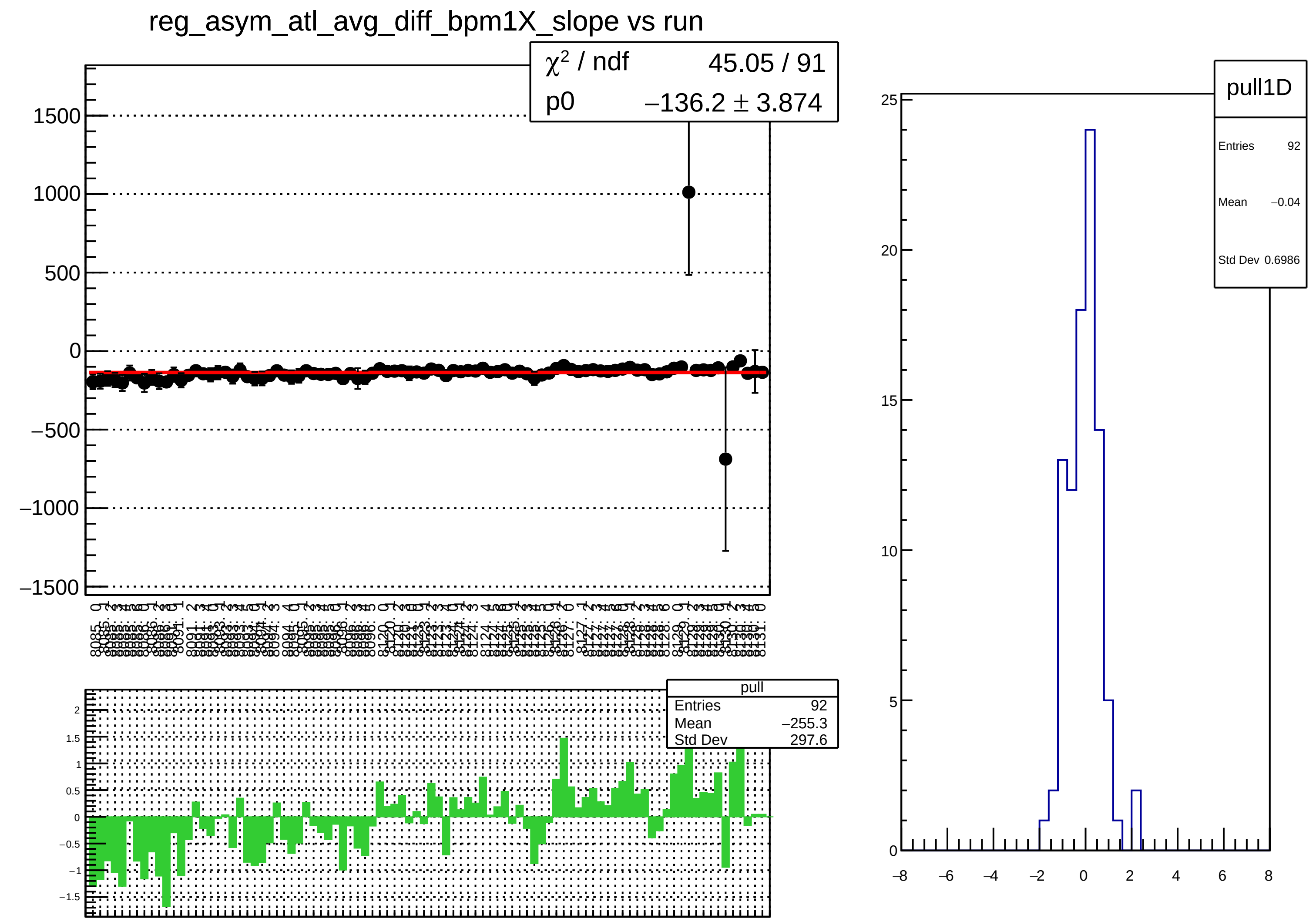
reg_asym_atr2_diff_bpm4eX_slope vs run
χ^2 / ndf 8.875 / 91
p0 469 ± 12.15
pull
Entries 92
Mean −386.3
Std Dev 429.2
pull1D
Entries 92
Mean 0.01118
Std Dev 0.3104



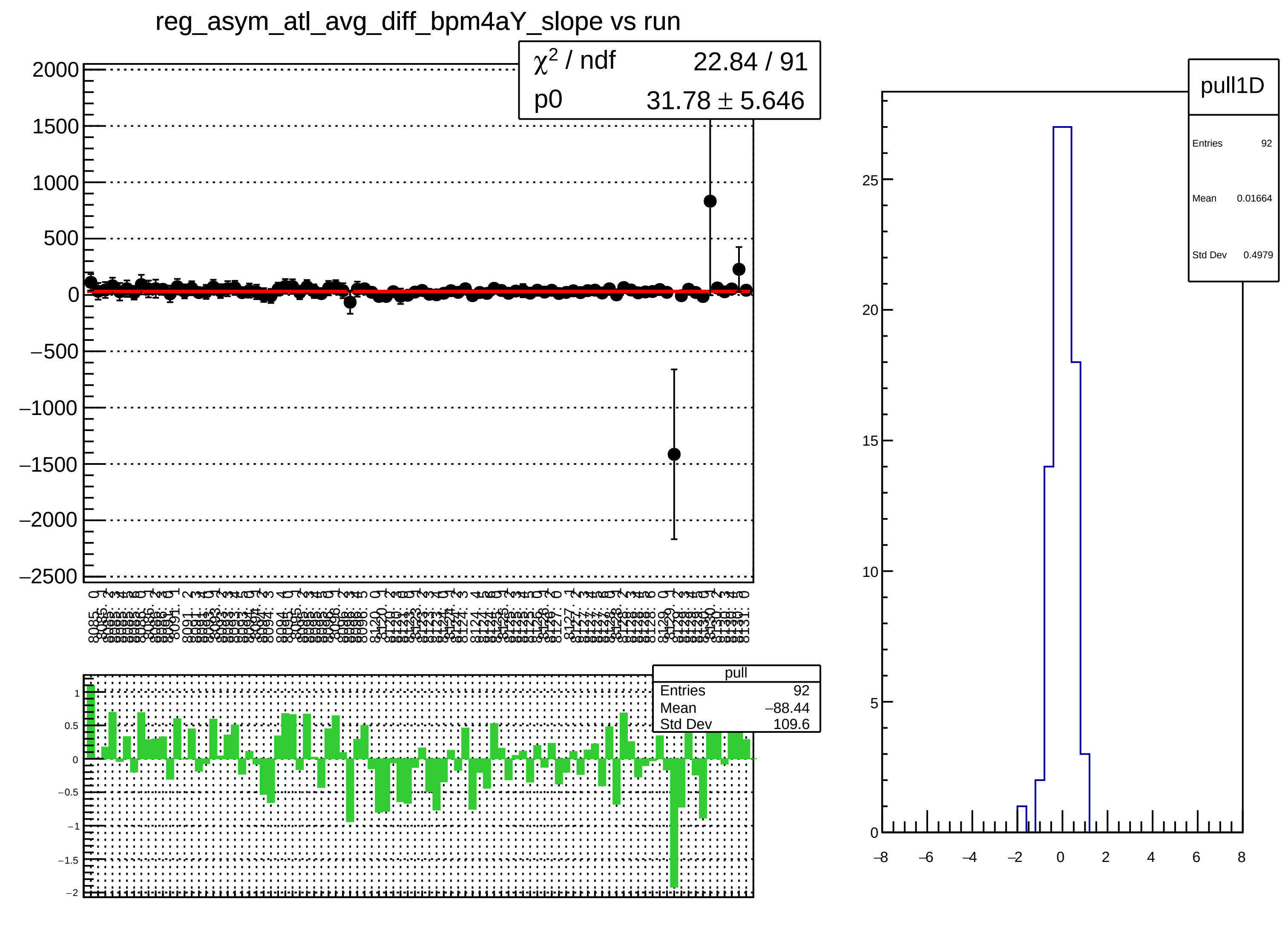
reg_asym_atr2_diff_bpm4eY_slope vs run
χ^2 / ndf 3.798 / 91
p0 −23.54 ± 19.97
400
300
200
100
0
−100
−200
−300
pull
Entries 92
Mean −23.02
Std Dev 95.01
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 92
Mean 0.004537
Std Dev 0.2031
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



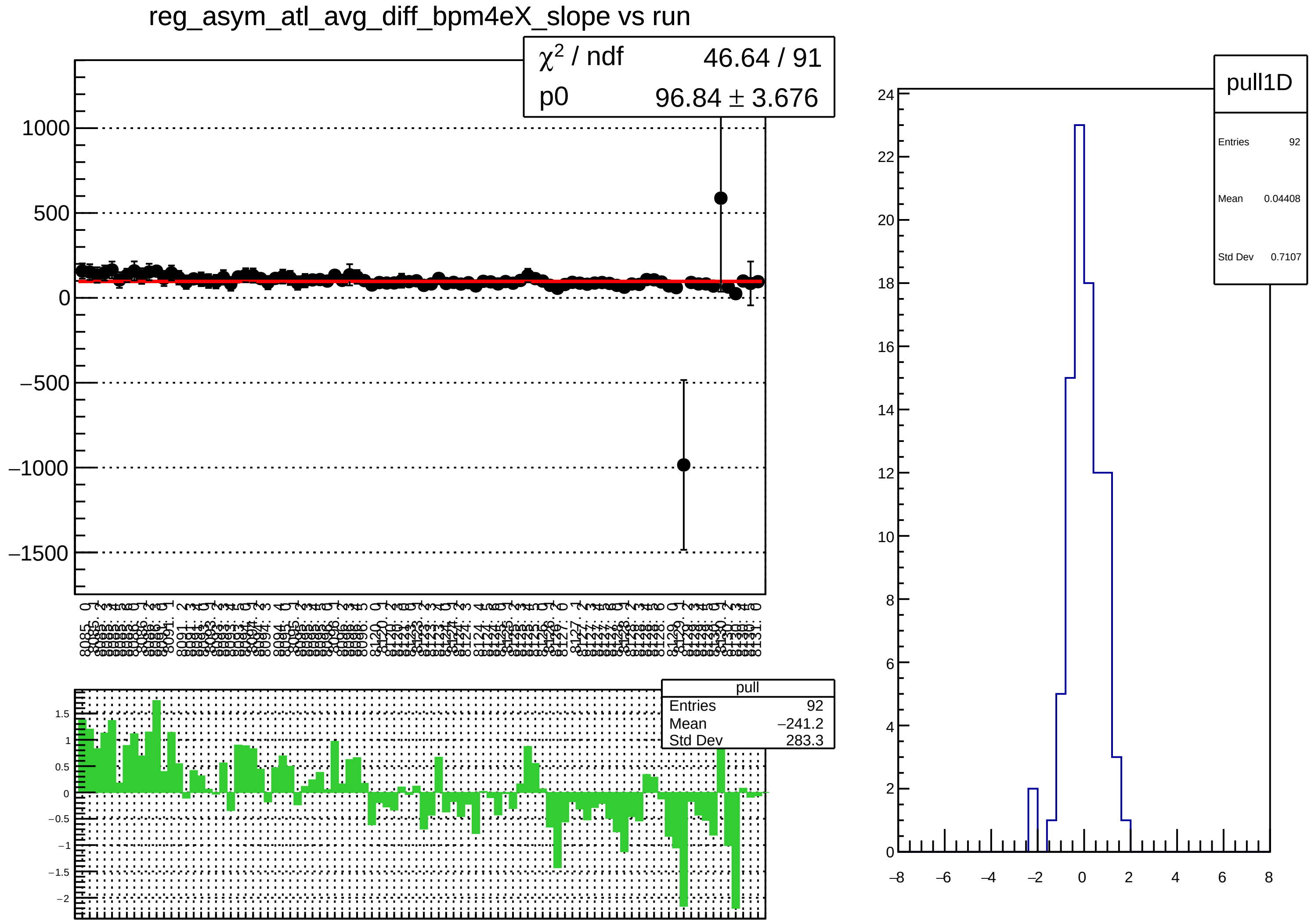
reg_asym_atr2_diff_bpm12X_slope vs run
χ^2 / ndf 119.9 / 91
p0 −253.9 ± 0.7613
−240
−250
−260
−270
−280
−290
pull
Entries 92
Mean −174.4
Std Dev 213.7
1
0
−1
−2
−3
pull1D
Entries 92
Mean −0.1098
Std Dev 1.136
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

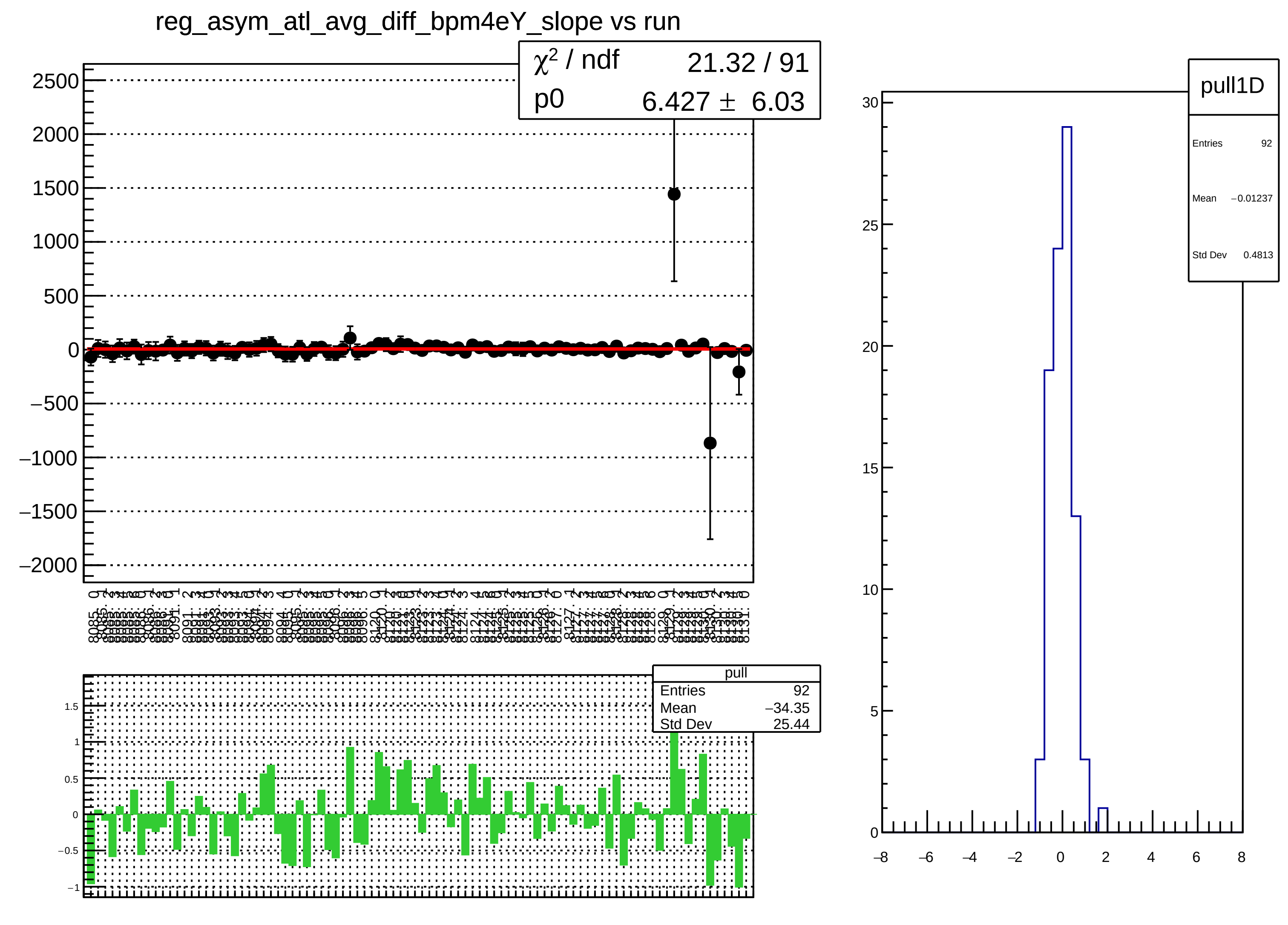


reg_asym_atl_avg_diff_bpm1X_slope vs run
χ2 / ndf 45.05 / 91
p0 −136.2 ± 3.874
pull
Entries 92
Mean −255.3
Std Dev 297.6
pull1D
Entries 92
Mean −0.04
Std Dev 0.6986

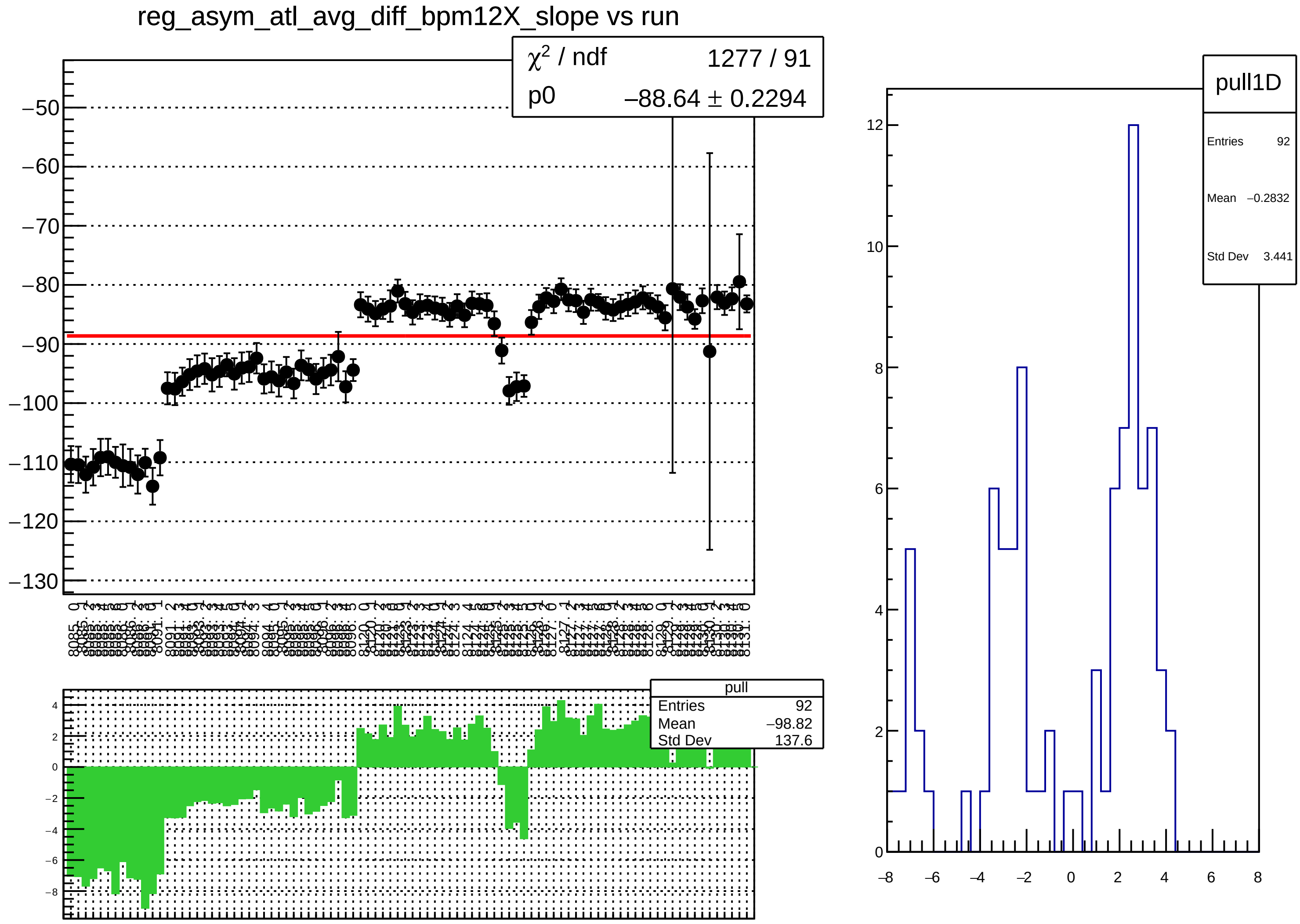


reg_asym_atl_avg_diff_bpm4aY_slope vs run
χ2 / ndf 22.84 / 91
p0 31.78 ± 5.646
pull
Entries 92
Mean −88.44
Std Dev 109.6
pull1D
Entries 92
Mean 0.01664
Std Dev 0.4979

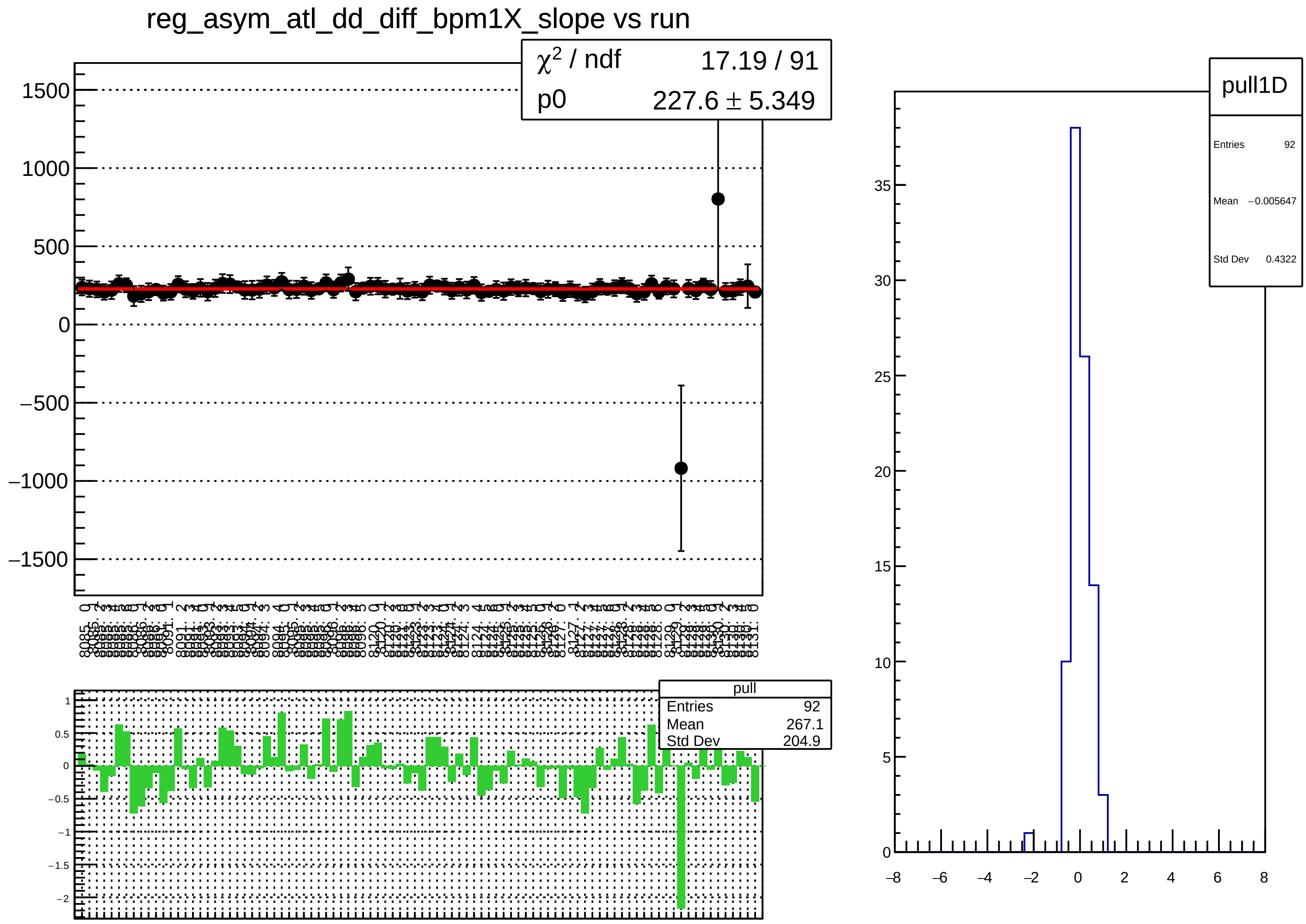

reg_asym_atl_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 46.64 / 91
p0 96.84 ± 3.676
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −241.2
Std Dev 283.3
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.04408
Std Dev 0.7107
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



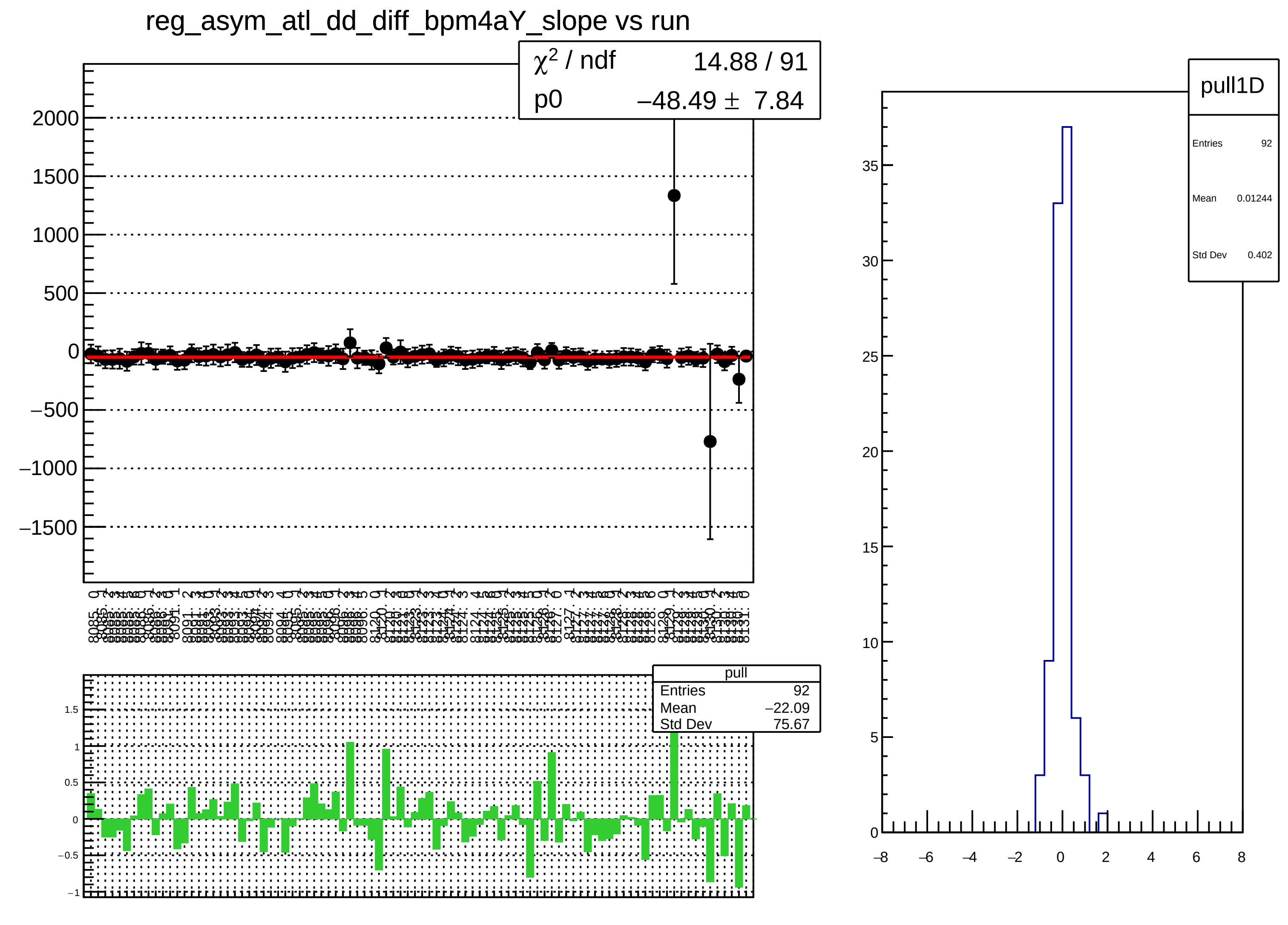
reg_asym_atl_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 21.32 / 91
p0 6.427 ± 6.03
pull
Entries 92
Mean −34.35
Std Dev 25.44
pull1D
Entries 92
Mean −0.01237
Std Dev 0.4813



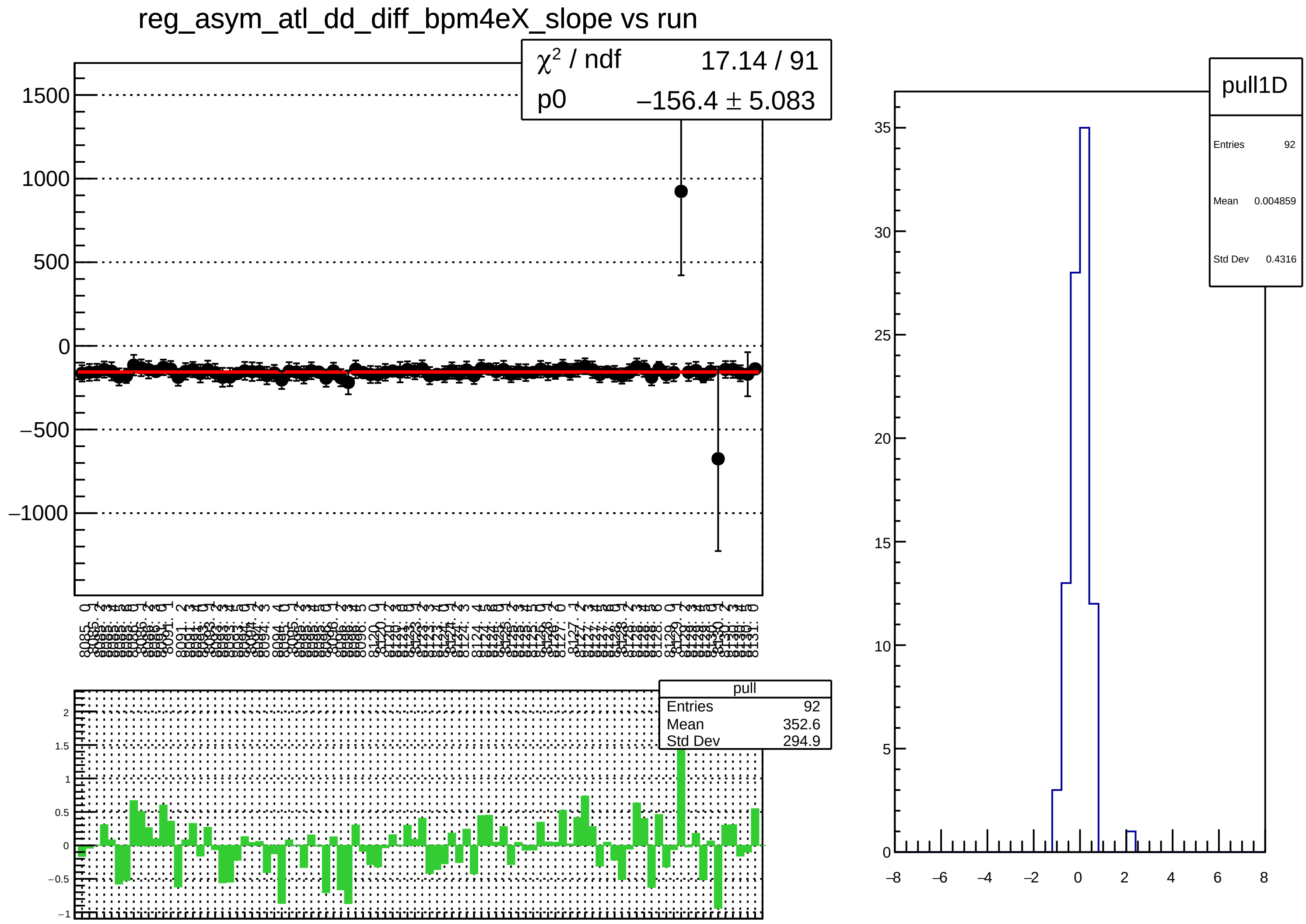
reg_asym_atl_avg_diff_bpm12X_slope vs run
χ^2 / ndf 1277 / 91
p0 −88.64 ± 0.2294
pull
Entries 92
Mean −98.82
Std Dev 137.6
pull1D
Entries 92
Mean −0.2832
Std Dev 3.441



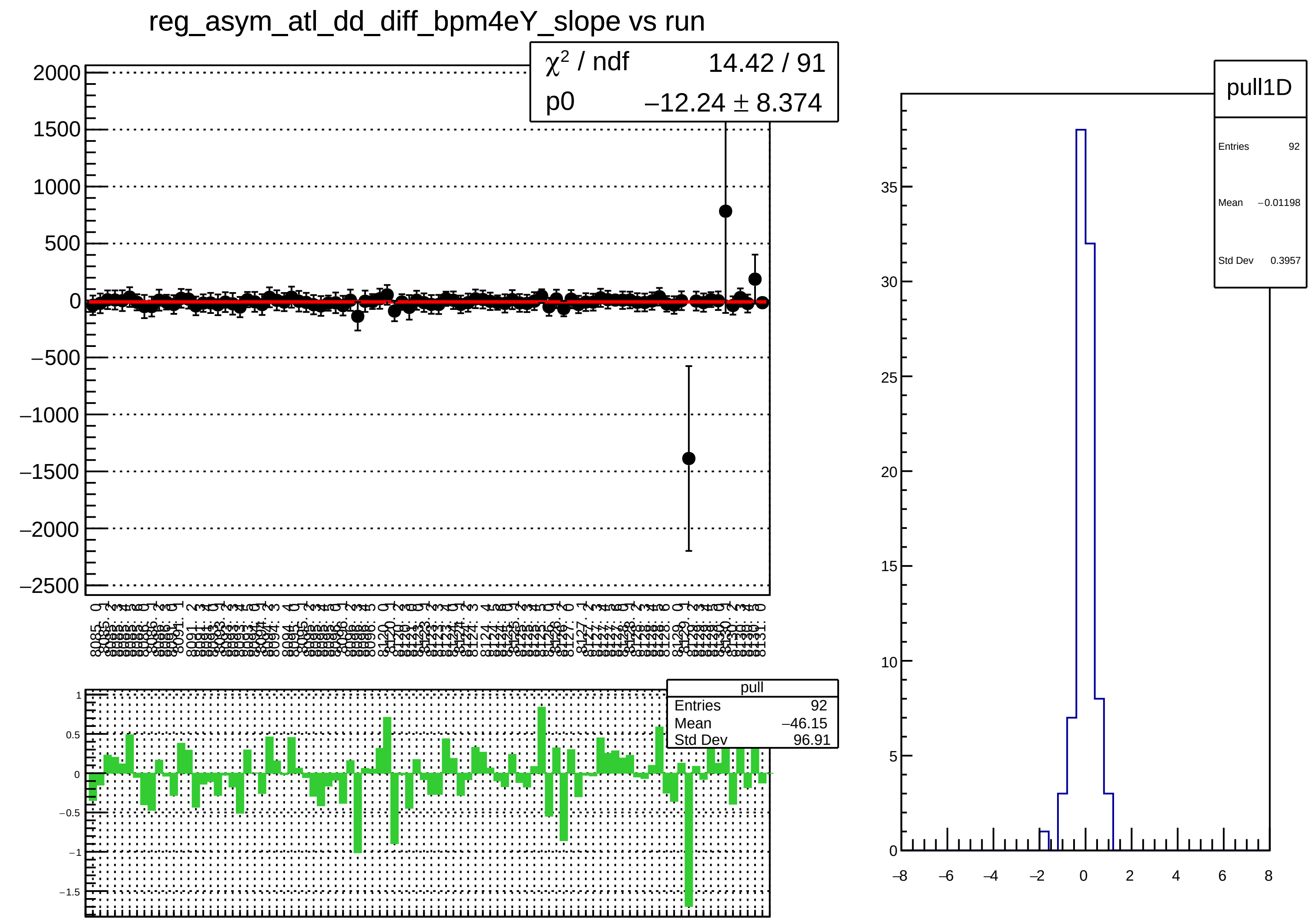
reg_asym_atl_dd_diff_bpm1X_slope vs run
χ^2 / ndf 17.19 / 91
p0 227.6 ± 5.349
pull
Entries 92
Mean 267.1
Std Dev 204.9
pull1D
Entries 92
Mean −0.005647
Std Dev 0.4322



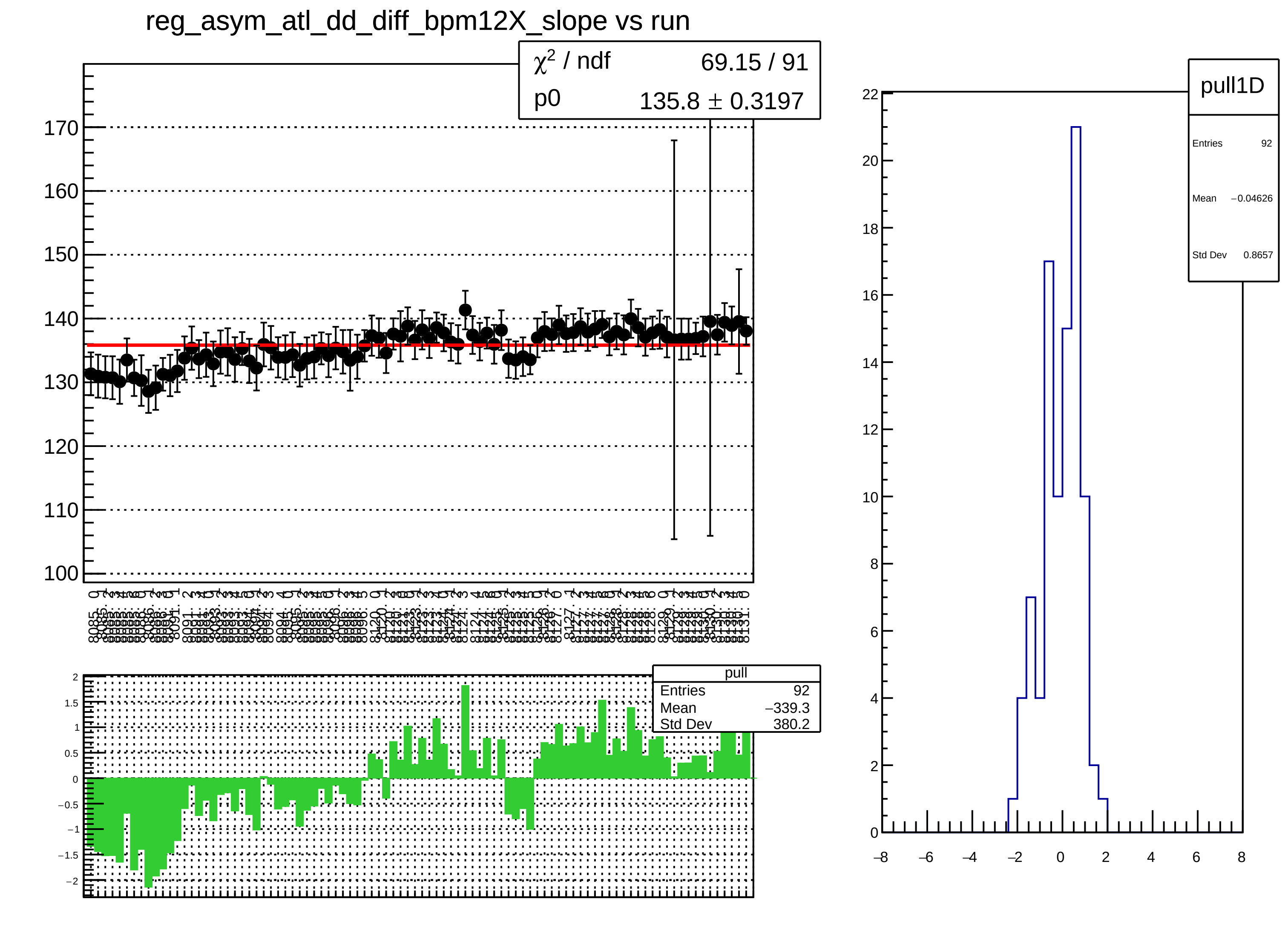
reg_asym_atl_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 14.88 / 91
p0 −48.49 ± 7.84
pull
Entries 92
Mean −22.09
Std Dev 75.67
pull1D
Entries 92
Mean 0.01244
Std Dev 0.402



reg_asym_atl_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 17.14 / 91
p0 −156.4 ± 5.083
pull
Entries 92
Mean 352.6
Std Dev 294.9
pull1D
Entries 92
Mean 0.004859
Std Dev 0.4316

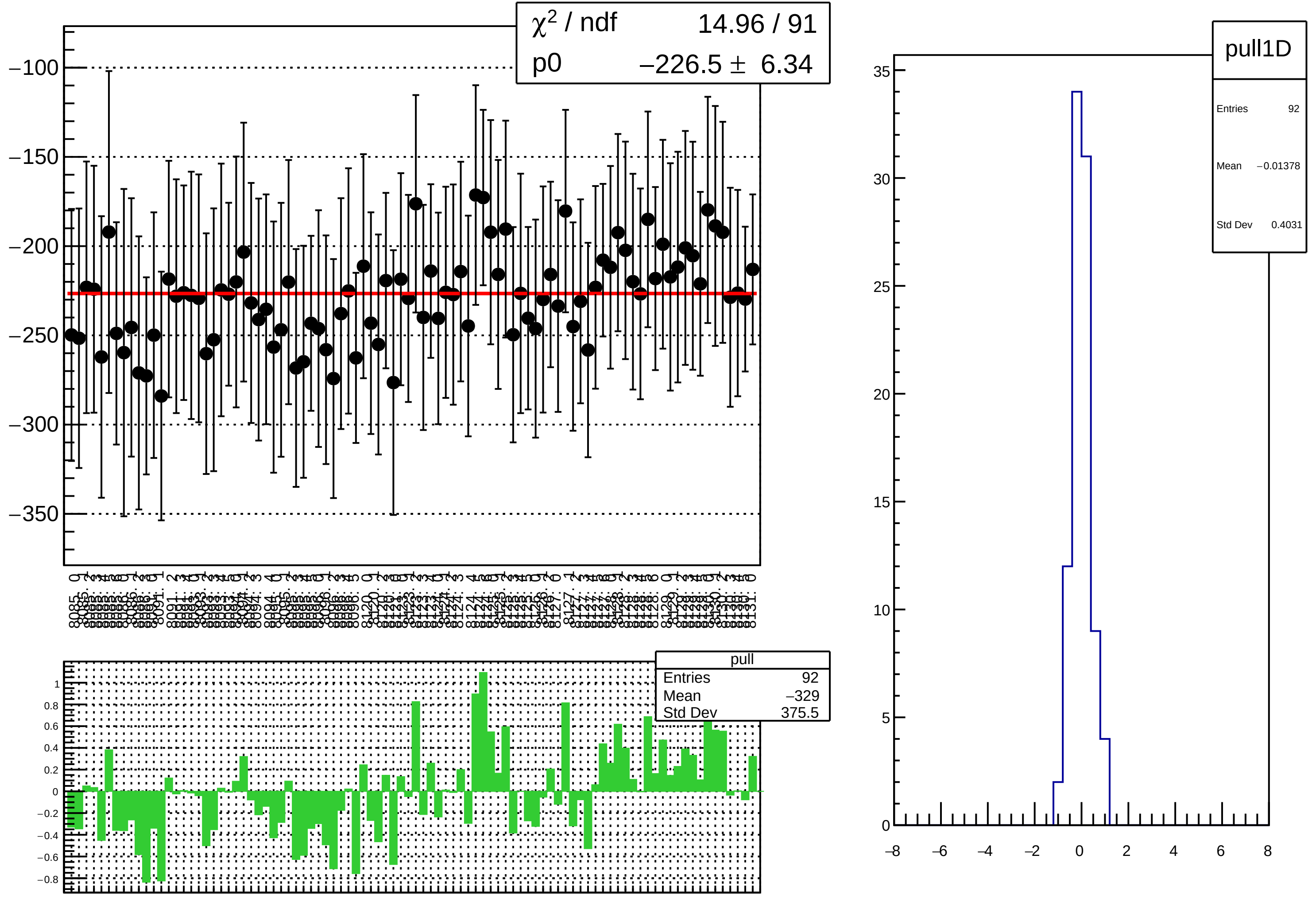


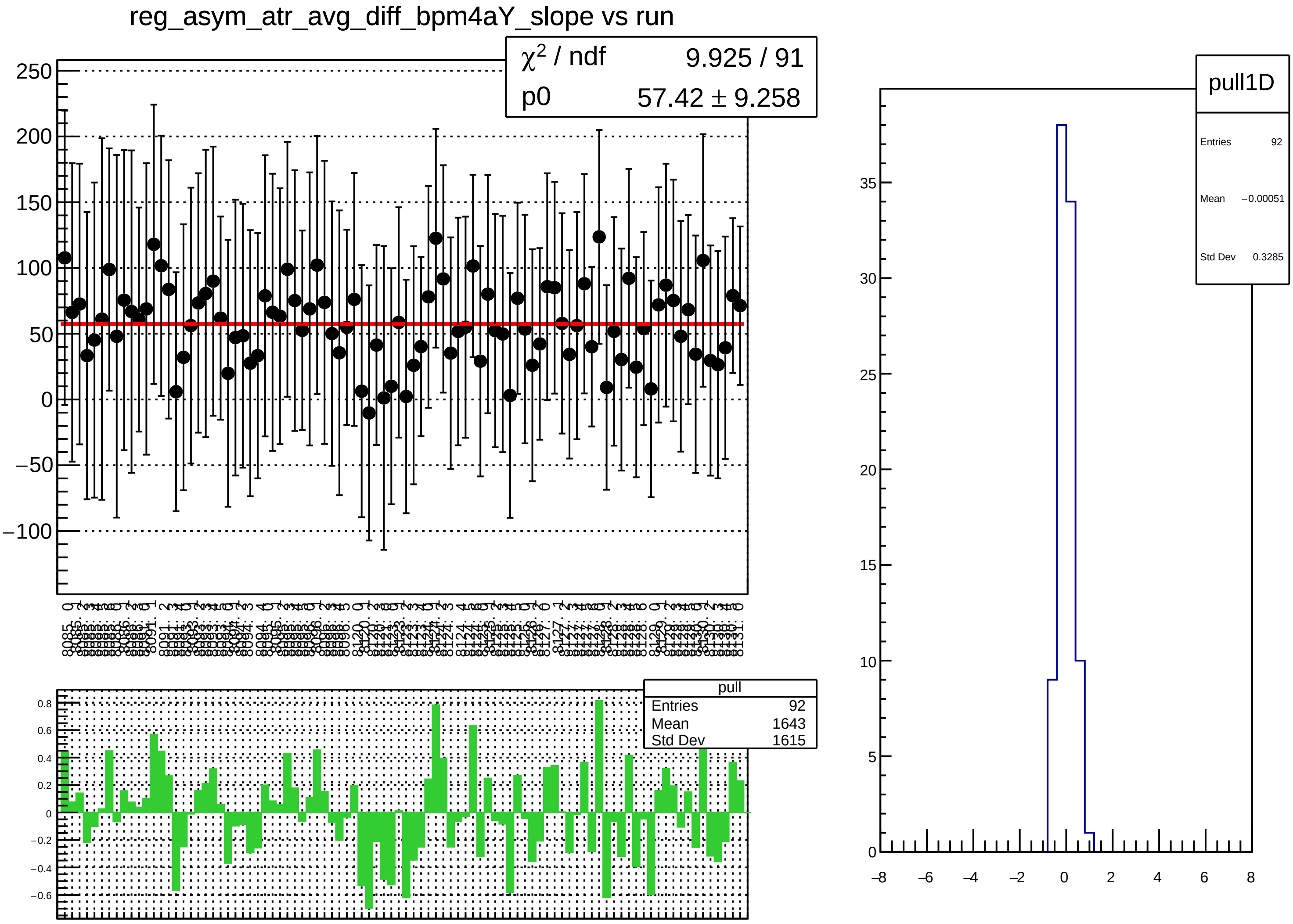
reg_asym_atl_dd_diff_bpm4eY_slope vs run
χ² / ndf 14.42 / 91
p0 −12.24 ± 8.374
pull
Entries 92
Mean −46.15
Std Dev 96.91
pull1D
Entries 92
Mean −0.01198
Std Dev 0.3957



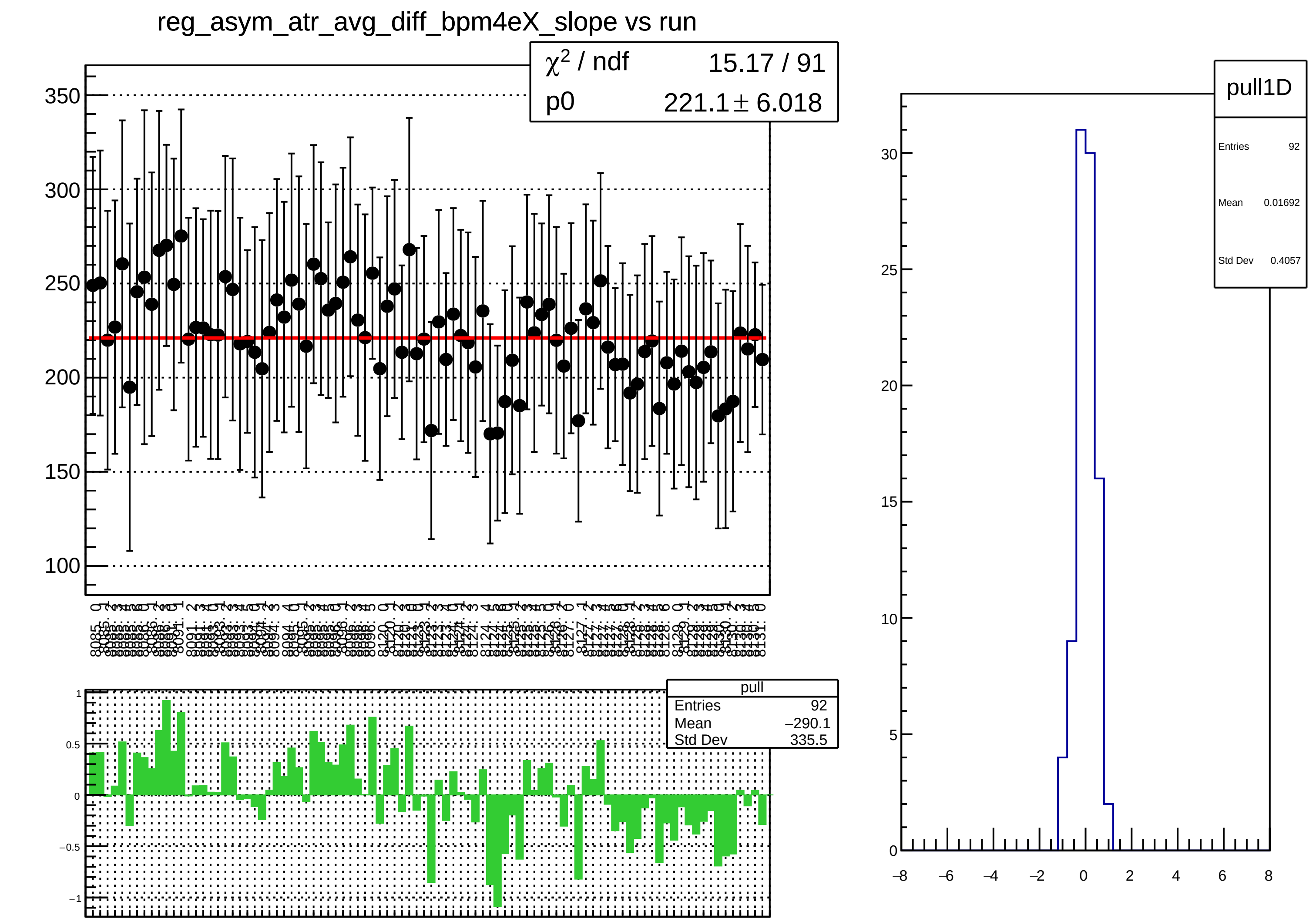
reg_asym_atl_dd_diff_bpm12X_slope vs run
χ^2 / ndf 69.15 / 91
p0 135.8 ± 0.3197
pull
Entries 92
Mean −339.3
Std Dev 380.2
pull1D
Entries 92
Mean −0.04626
Std Dev 0.8657

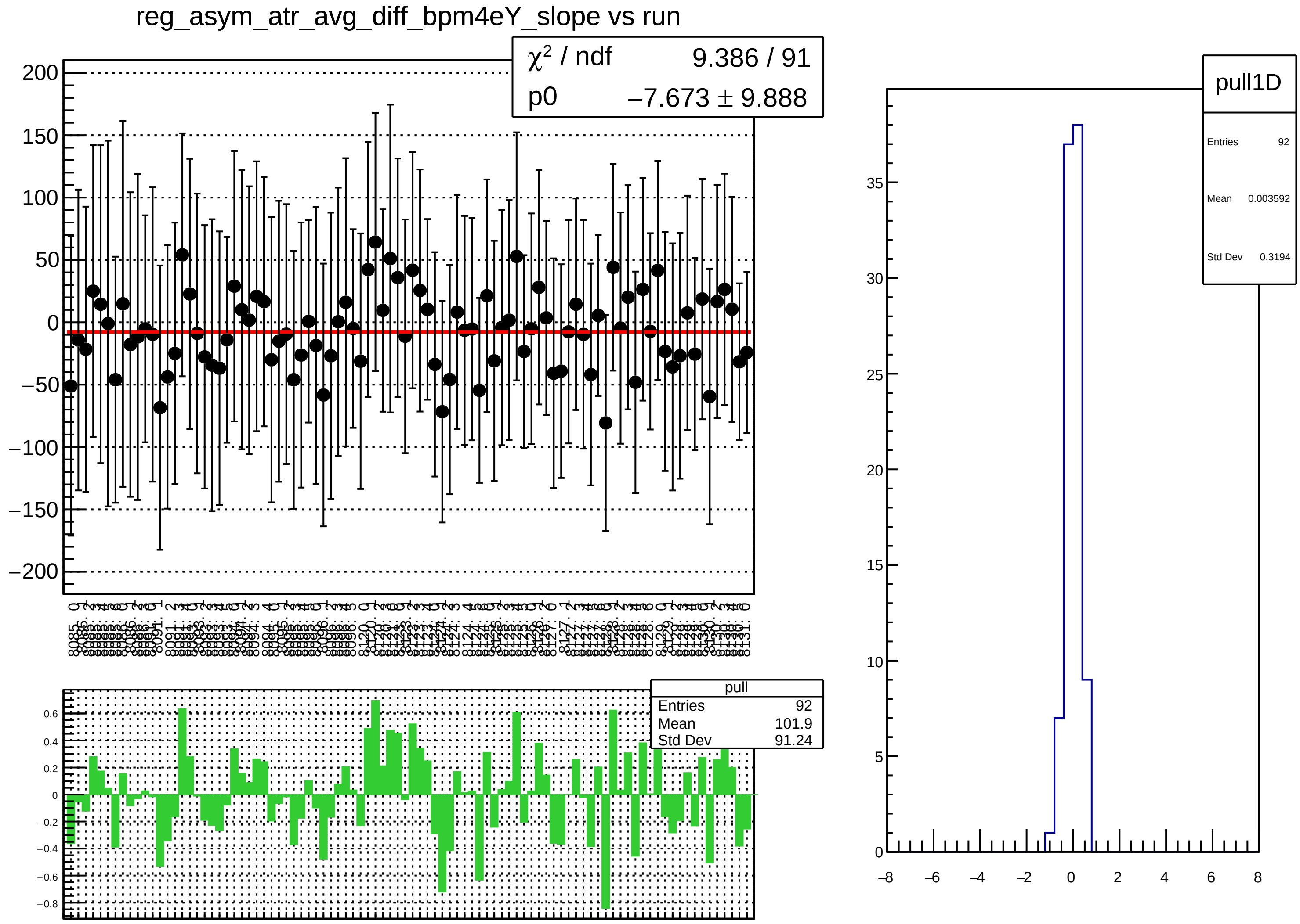
reg_asym_atr_avg_diff_bpm1X_slope vs run



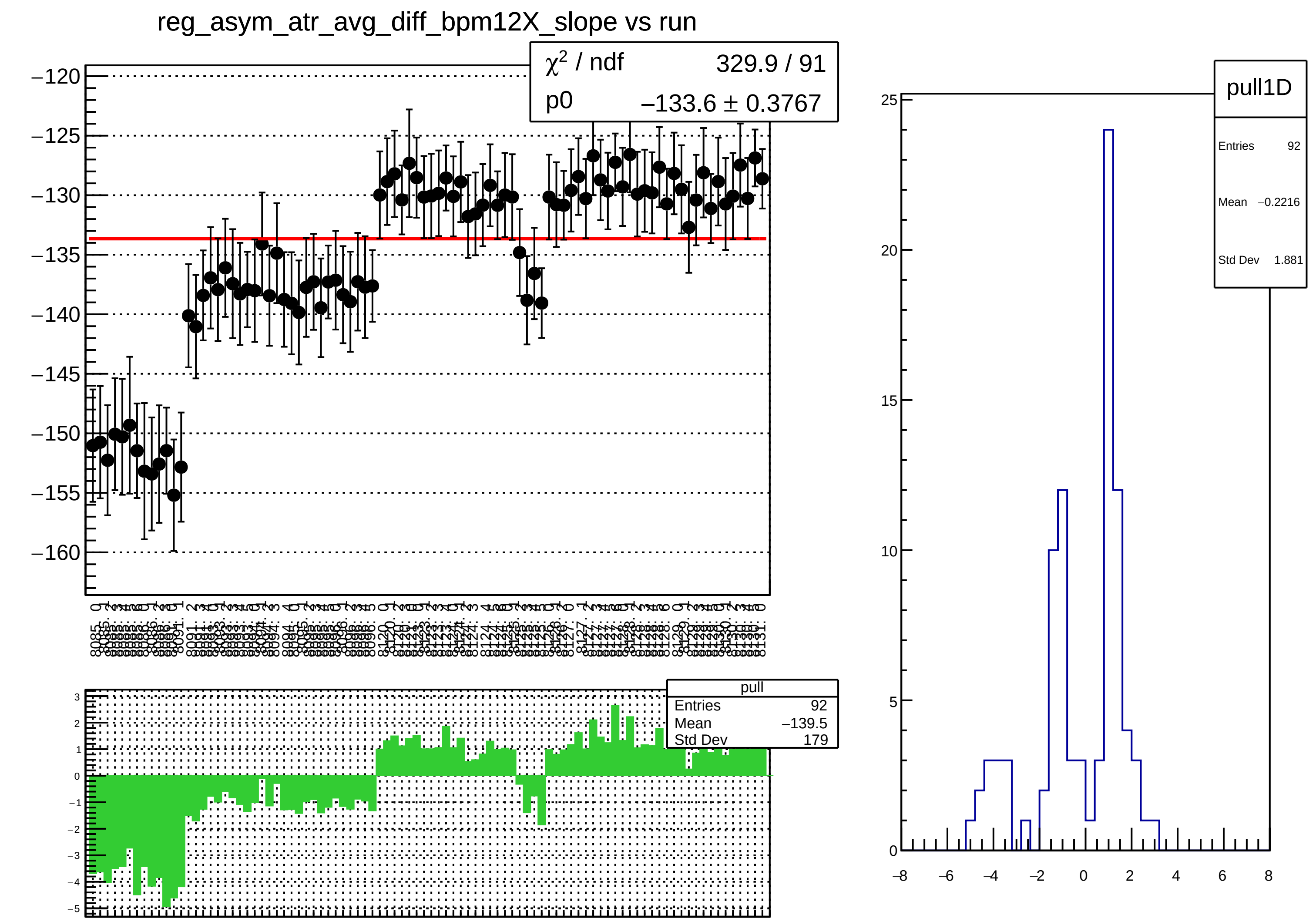


reg_asym_atr_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 9.925 / 91
p0 57.42 ± 9.258
pull
Entries 92
Mean 1643
Std Dev 1615
pull1D
Entries 92
Mean −0.00051
Std Dev 0.3285

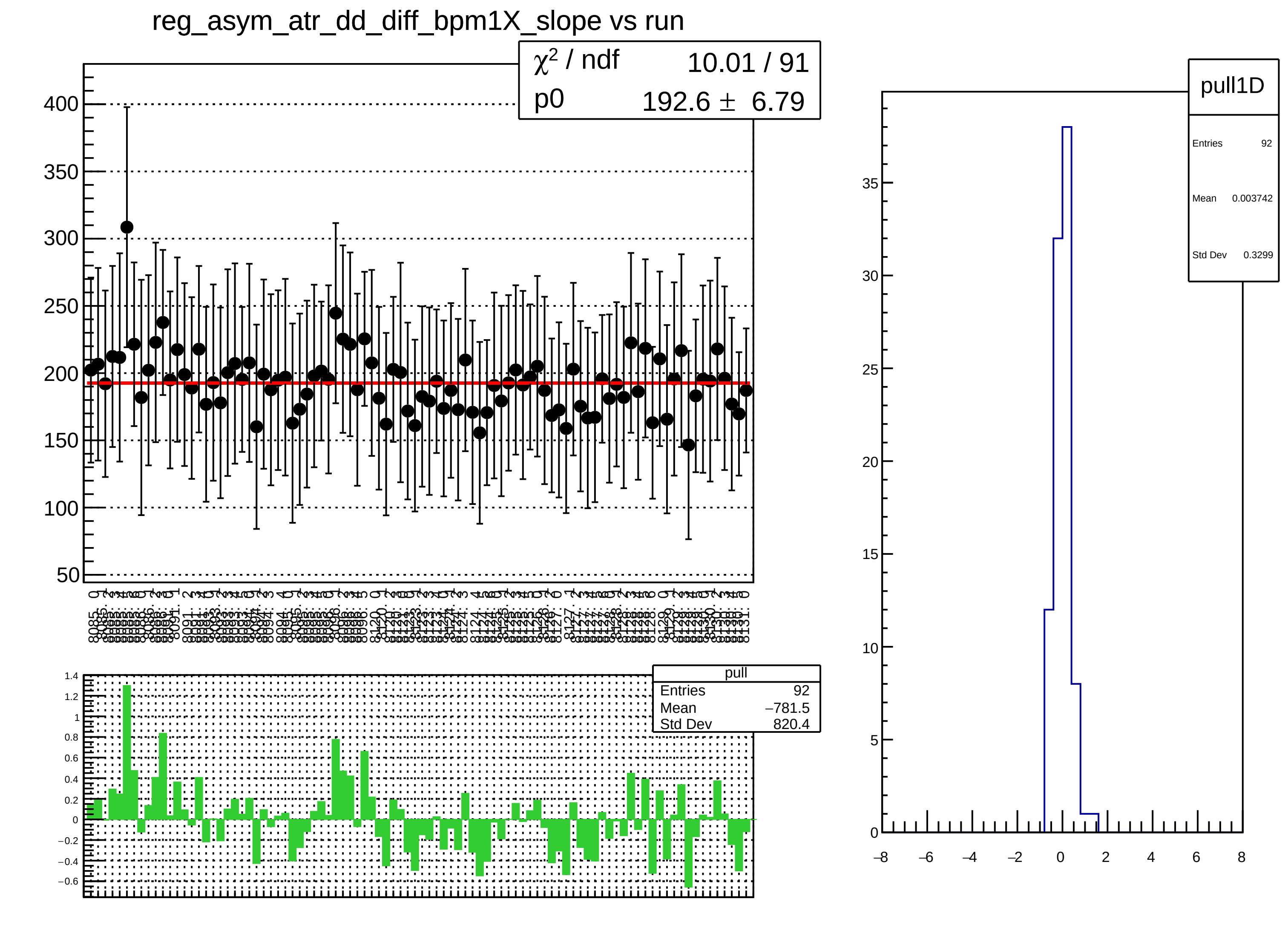

reg_asym_atr_avg_diff_bpm4eX_slope vs run
χ2 / ndf 15.17 / 91
p0 221.1 ± 6.018
350
300
250
200
150
100
pull
Entries 92
Mean −290.1
Std Dev 335.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean 0.01692
Std Dev 0.4057
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



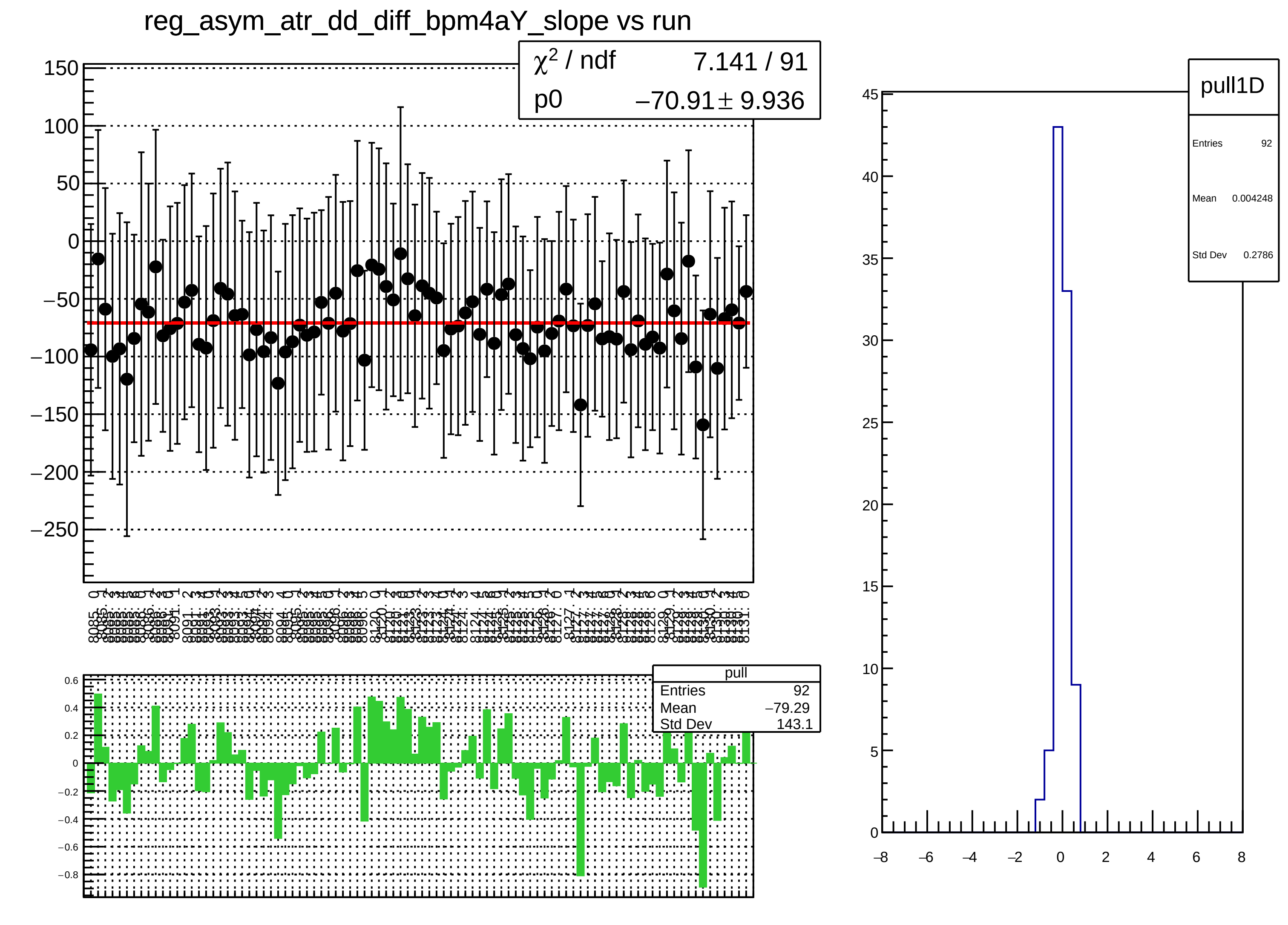
reg_asym_atr_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 9.386 / 91
p0 −7.673 ± 9.888
pull
Entries 92
Mean 101.9
Std Dev 91.24
pull1D
Entries 92
Mean 0.003592
Std Dev 0.3194

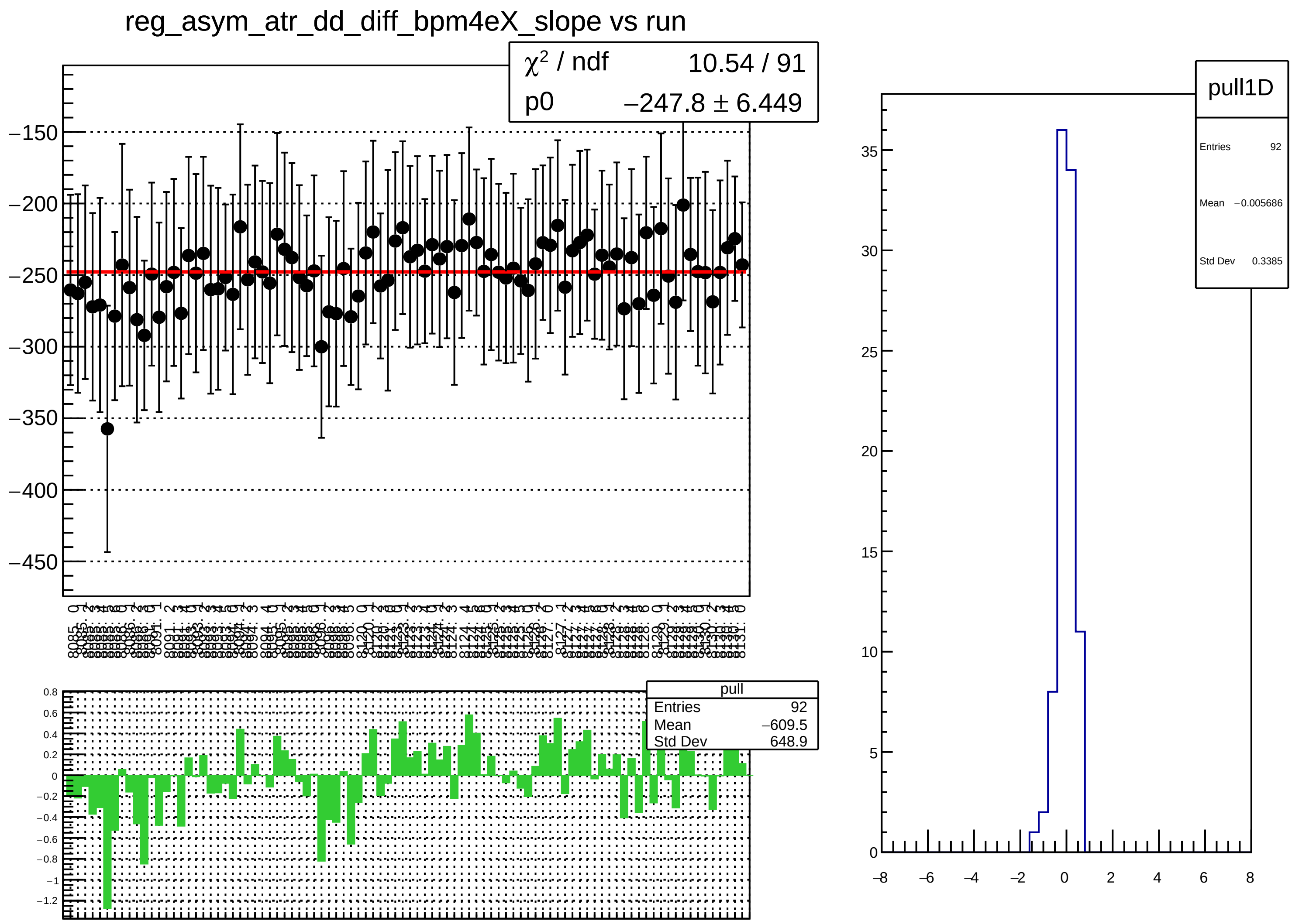


reg_asym_atr_avg_diff_bpm12X_slope vs run
χ^2 / ndf 329.9 / 91
p0 −133.6 ± 0.3767
pull
Entries 92
Mean −139.5
Std Dev 179
pull1D
Entries 92
Mean −0.2216
Std Dev 1.881

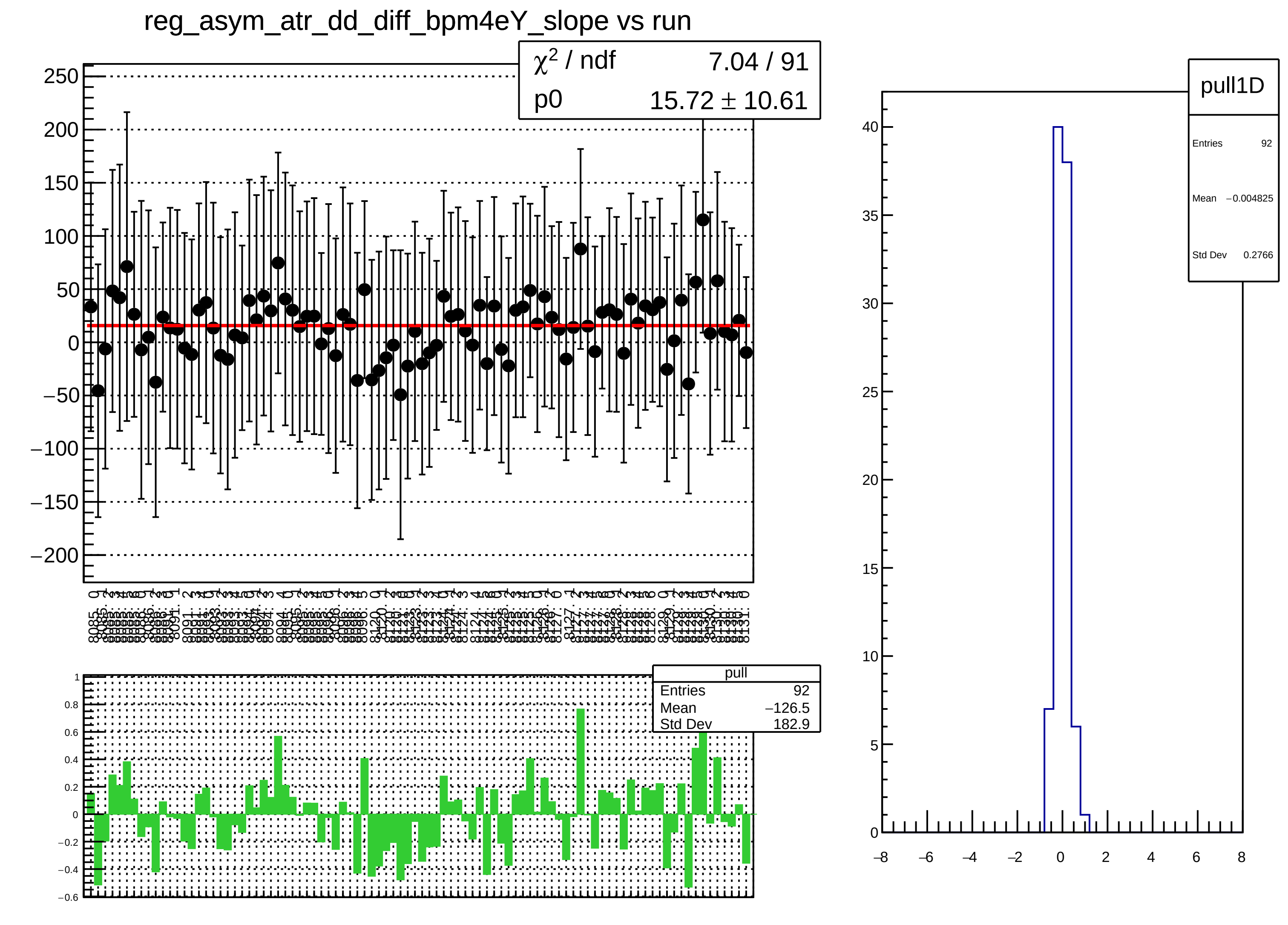


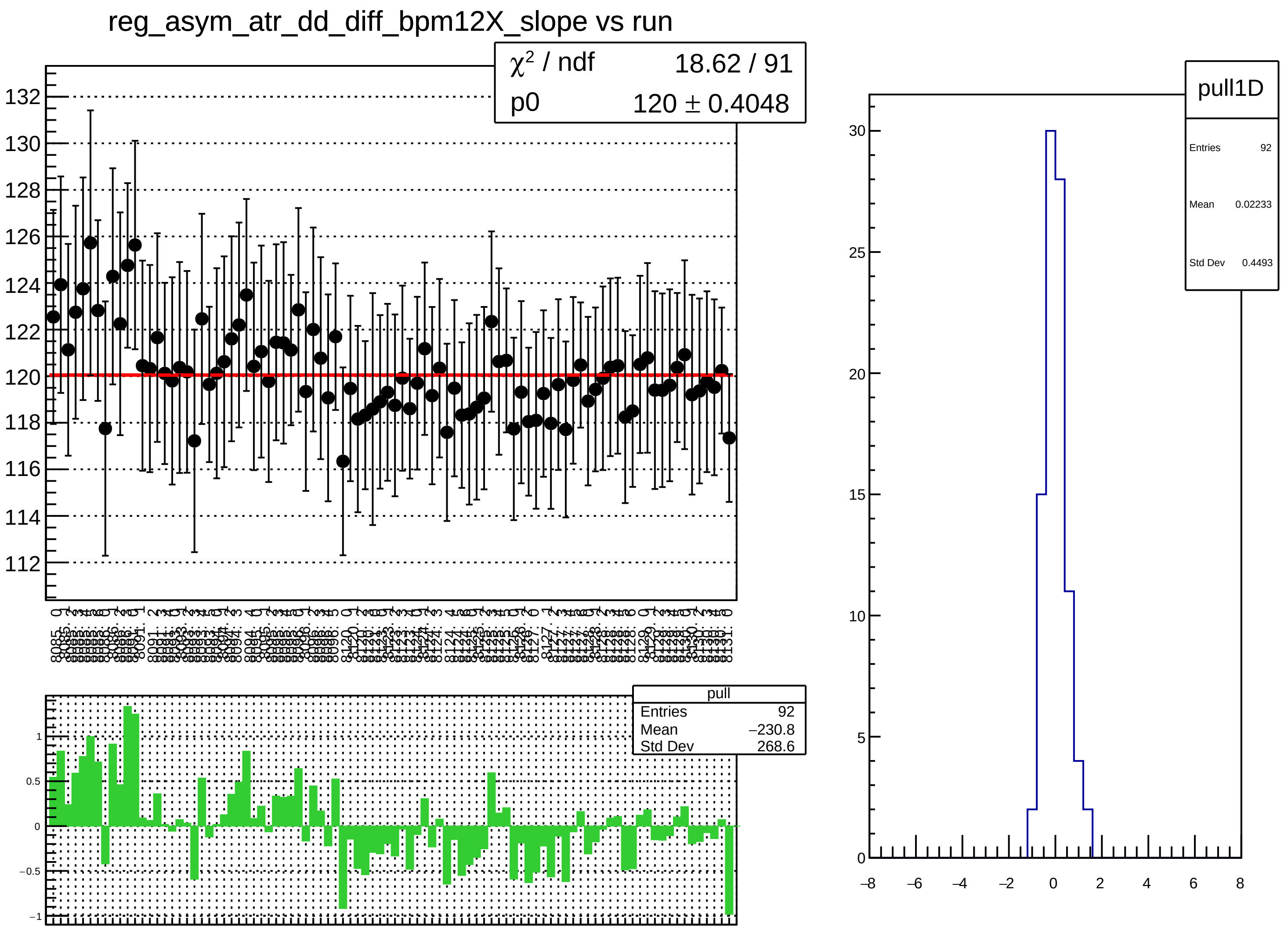
reg_asym_atr_dd_diff_bpm1X_slope vs run
χ^2 / ndf 10.01 / 91
p0 192.6 ± 6.79
pull
Entries 92
Mean −781.5
Std Dev 820.4
pull1D
Entries 92
Mean 0.003742
Std Dev 0.3299

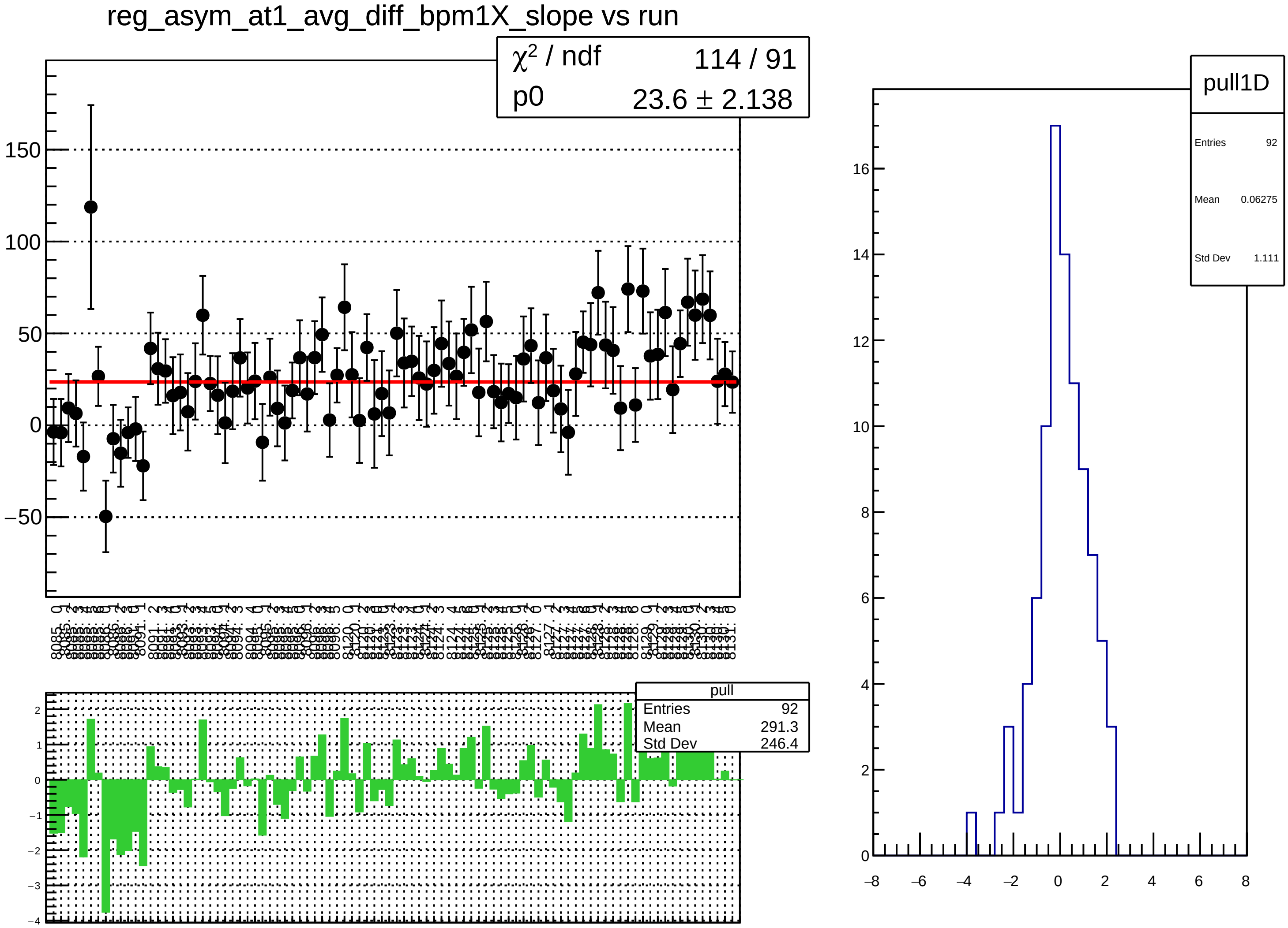

reg_asym_atr_dd_diff_bpm4aY_slope vs run
χ2 / ndf 7.141 / 91
p0 −70.91 ± 9.936
pull
Entries 92
Mean −79.29
Std Dev 143.1
pull1D
Entries 92
Mean 0.004248
Std Dev 0.2786



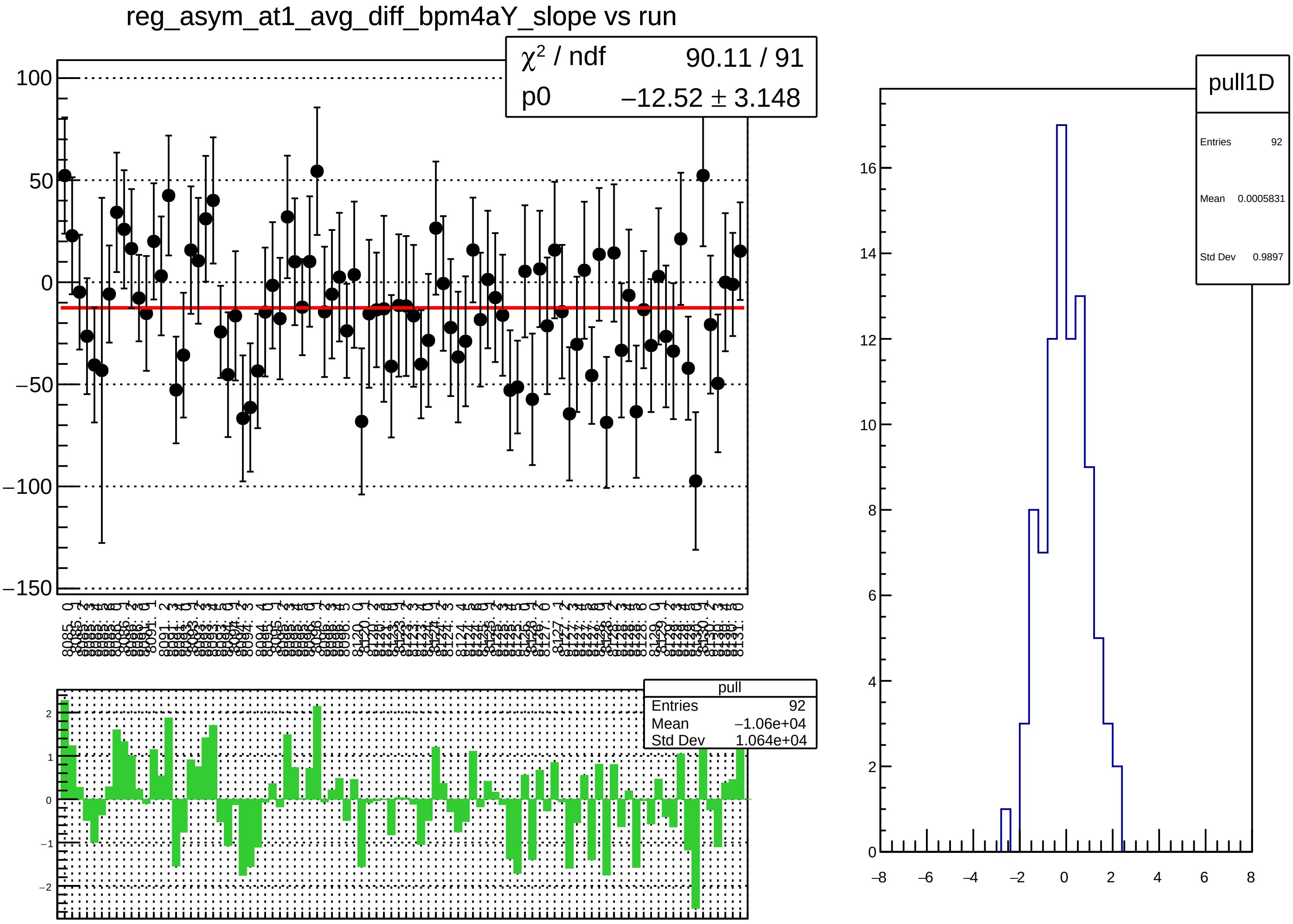
reg_asym_atr_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 10.54 / 91
p0 −247.8 ± 6.449
pull
Entries 92
Mean −609.5
Std Dev 648.9
pull1D
Entries 92
Mean −0.005686
Std Dev 0.3385


reg_asym_atr_dd_diff_bpm4eY_slope vs run
χ2 / ndf 7.04 / 91
p0 15.72 ± 10.61
pull
Entries 92
Mean −126.5
Std Dev 182.9
pull1D
Entries 92
Mean −0.004825
Std Dev 0.2766

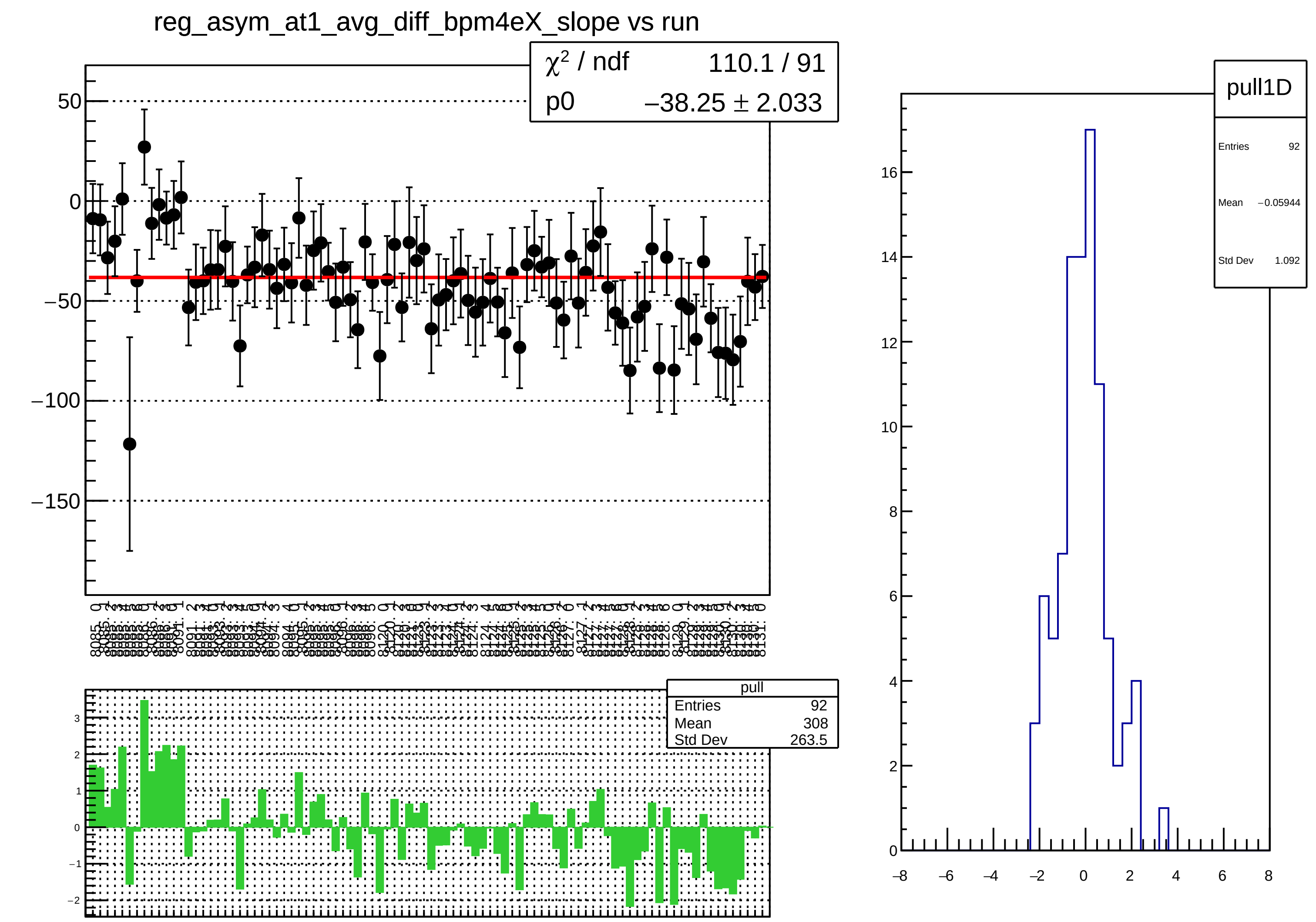

reg_asym_atr_dd_diff_bpm12X_slope vs run
χ2 / ndf 18.62 / 91
p0 120 ± 0.4048
pull
Entries 92
Mean −230.8
Std Dev 268.6
pull1D
Entries 92
Mean 0.02233
Std Dev 0.4493



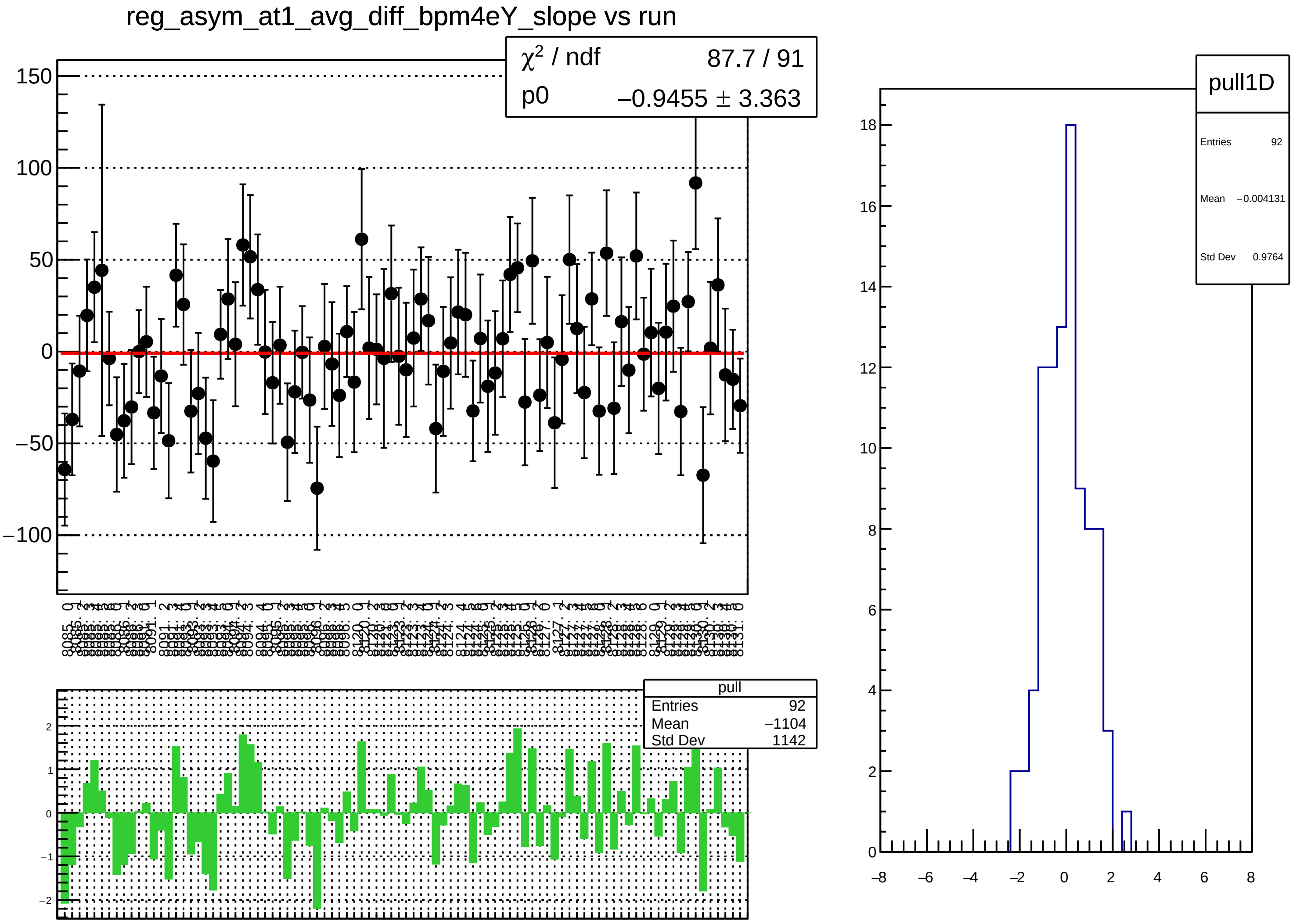
reg_asym_at1_avg_diff_bpm1X_slope vs run
χ2 / ndf 114 / 91
p0 23.6 ± 2.138
pull
Entries 92
Mean 291.3
Std Dev 246.4
pull1D
Entries 92
Mean 0.06275
Std Dev 1.111



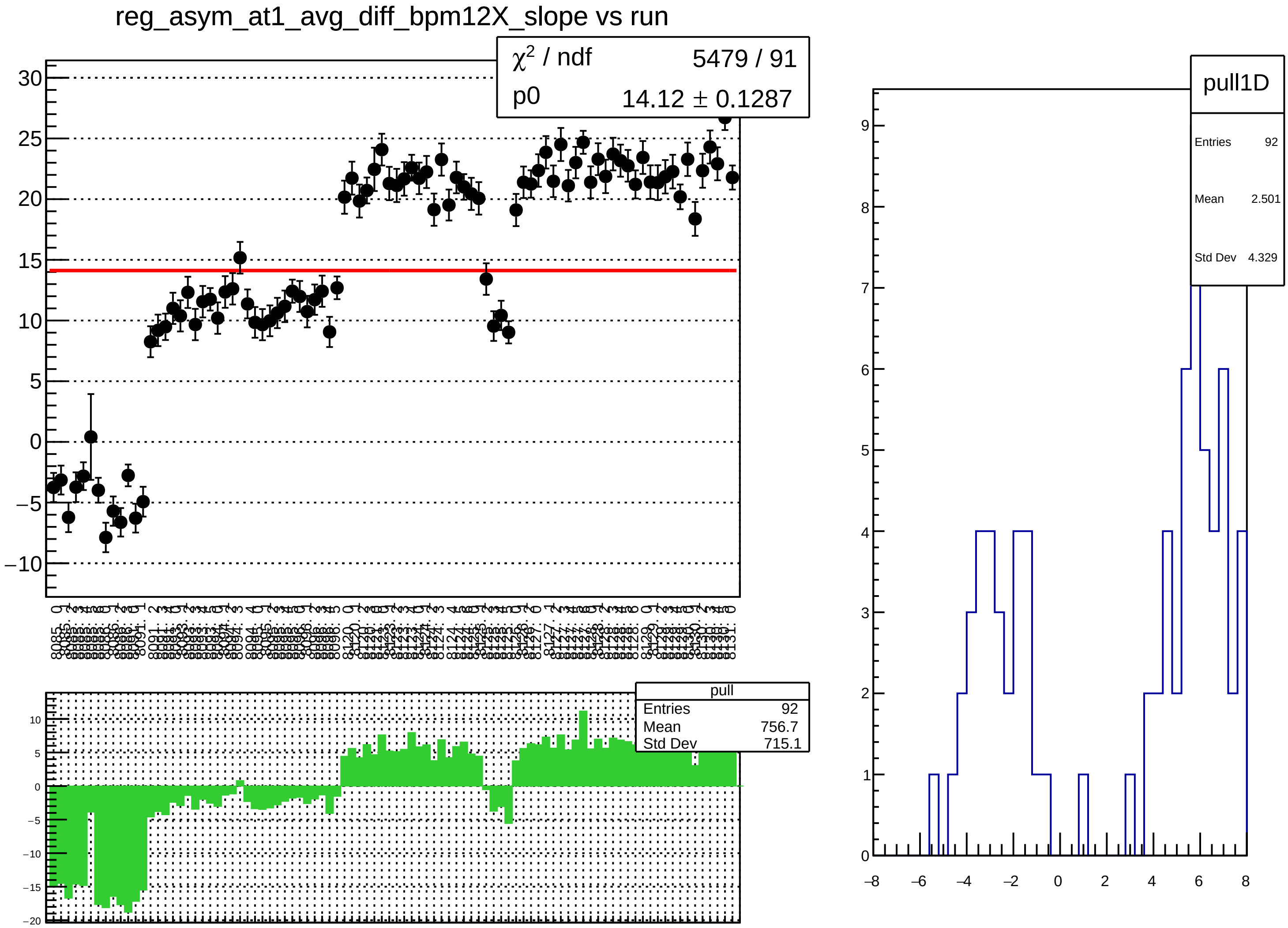
reg_asym_at1_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 90.11 / 91
p0 −12.52 ± 3.148
100
50
0
−50
−100
−150
pull
Entries 92
Mean −1.06e+04
Std Dev 1.064e+04
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.0005831
Std Dev 0.9897
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



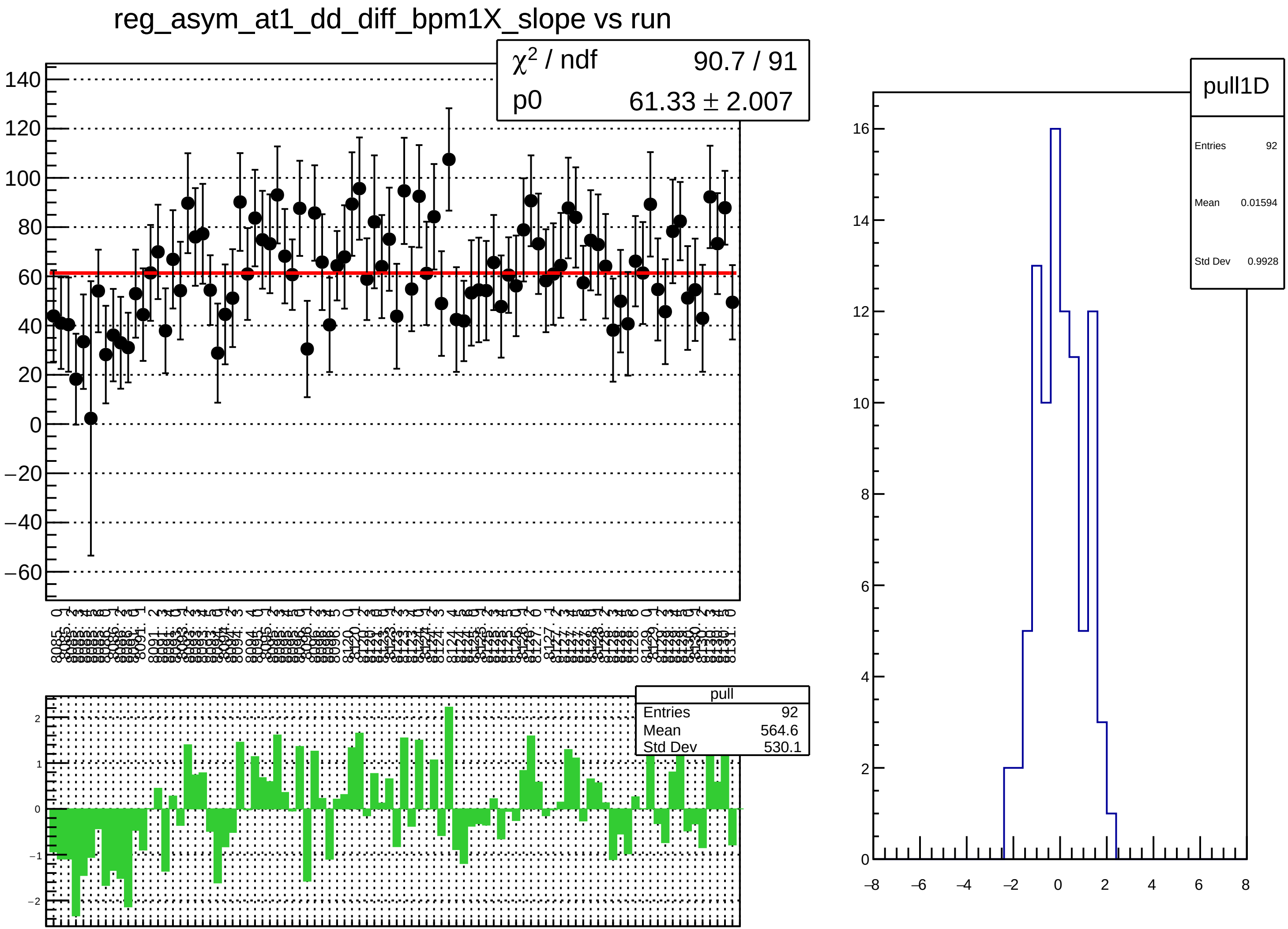
reg_asym_at1_avg_diff_bpm4eX_slope vs run
χ2 / ndf 110.1 / 91
p0 −38.25 ± 2.033
pull
Entries 92
Mean 308
Std Dev 263.5
pull1D
Entries 92
Mean −0.05944
Std Dev 1.092



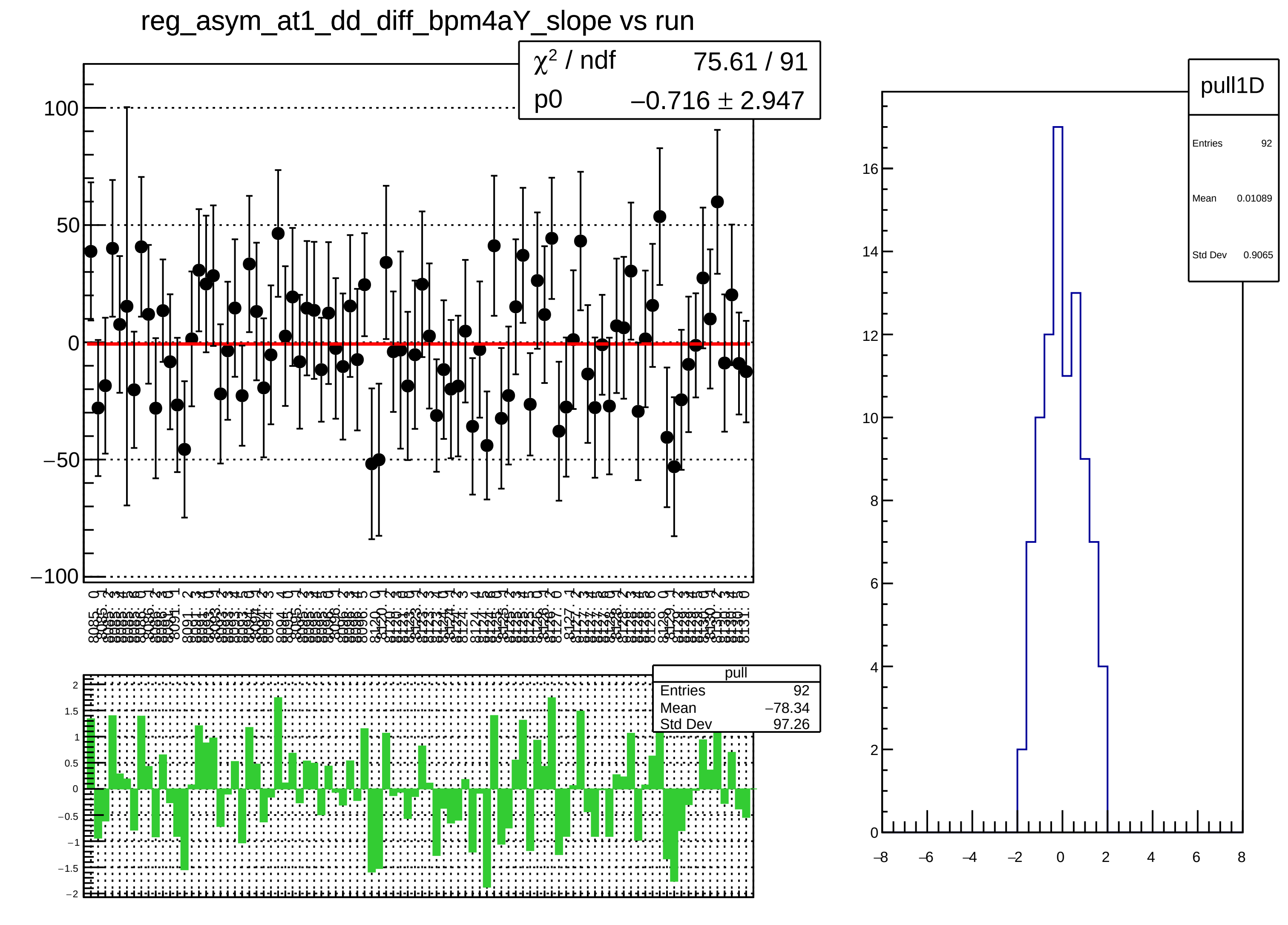
reg_asym_at1_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 87.7 / 91
p0 −0.9455 ± 3.363
150
100
50
0
−50
−100
pull
Entries 92
Mean −1104
Std Dev 1142
2
1
0
−1
−2
pull1D
Entries 92
Mean −0.004131
Std Dev 0.9764
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



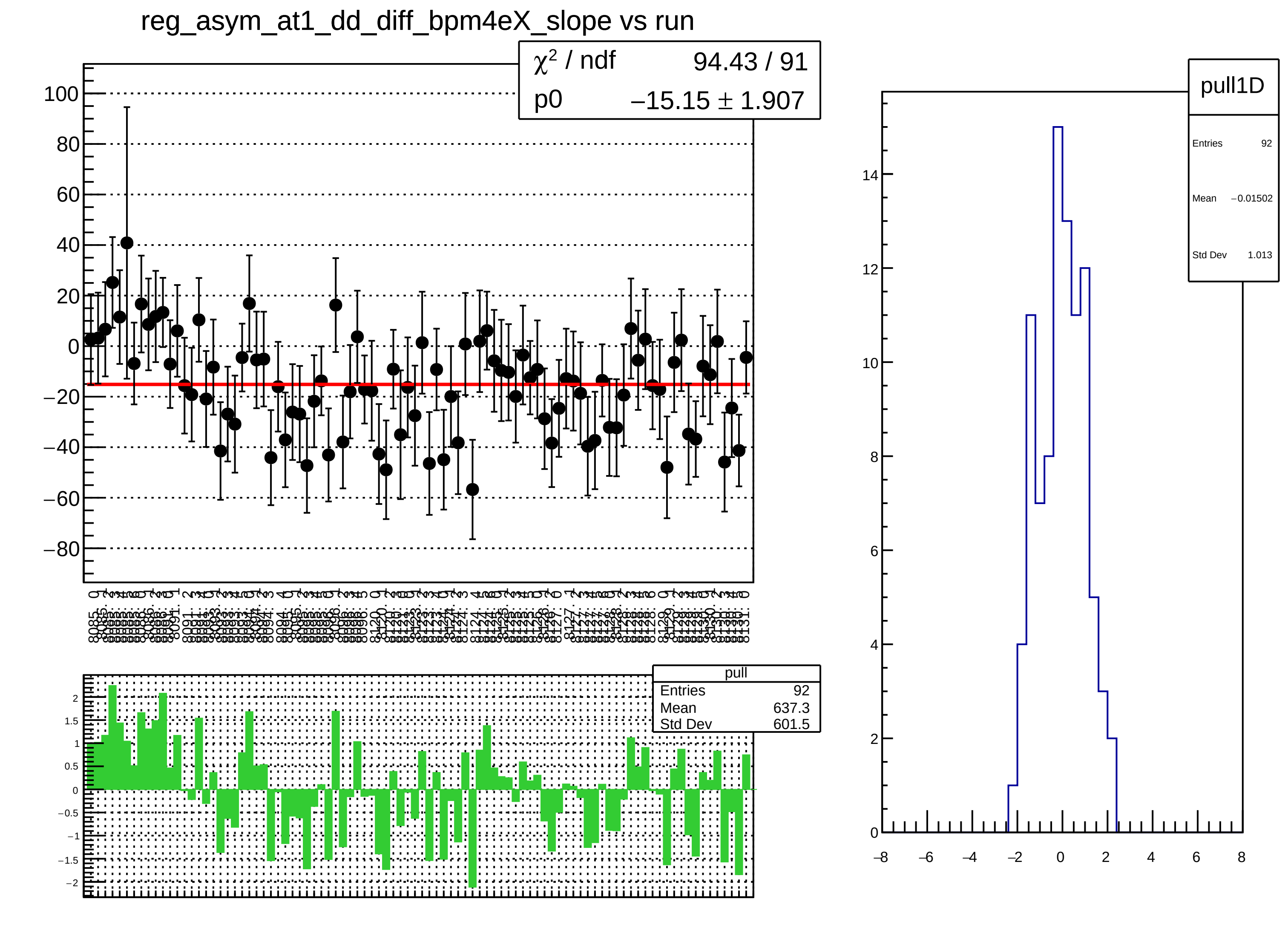
reg_asym_at1_avg_diff_bpm12X_slope vs run
χ² / ndf 5479 / 91
p0 14.12 ± 0.1287
pull
Entries 92
Mean 756.7
Std Dev 715.1
pull1D
Entries 92
Mean 2.501
Std Dev 4.329



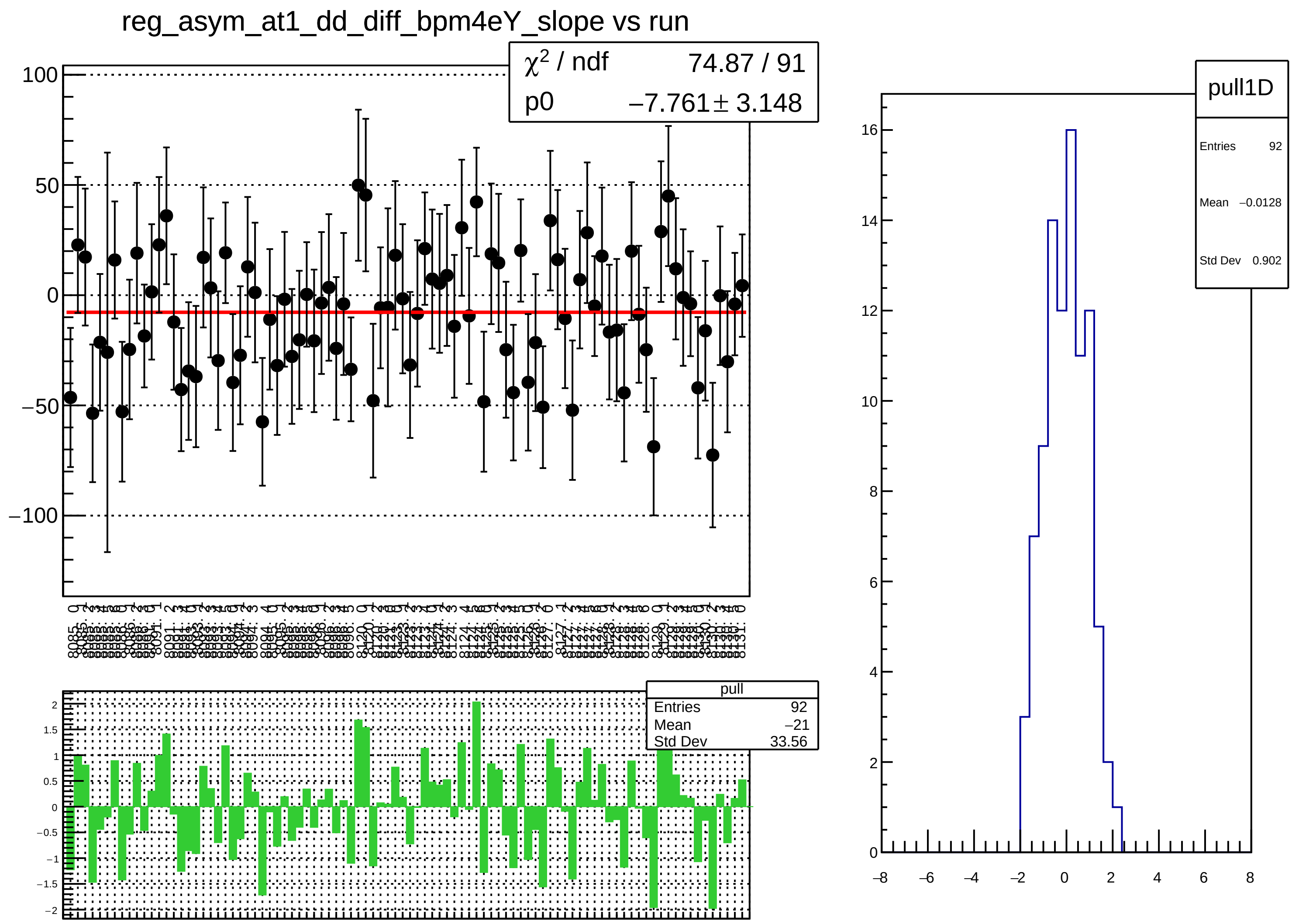
reg_asym_at1_dd_diff_bpm1X_slope vs run
χ2 / ndf 90.7 / 91
p0 61.33 ± 2.007
pull
Entries 92
Mean 564.6
Std Dev 530.1
pull1D
Entries 92
Mean 0.01594
Std Dev 0.9928



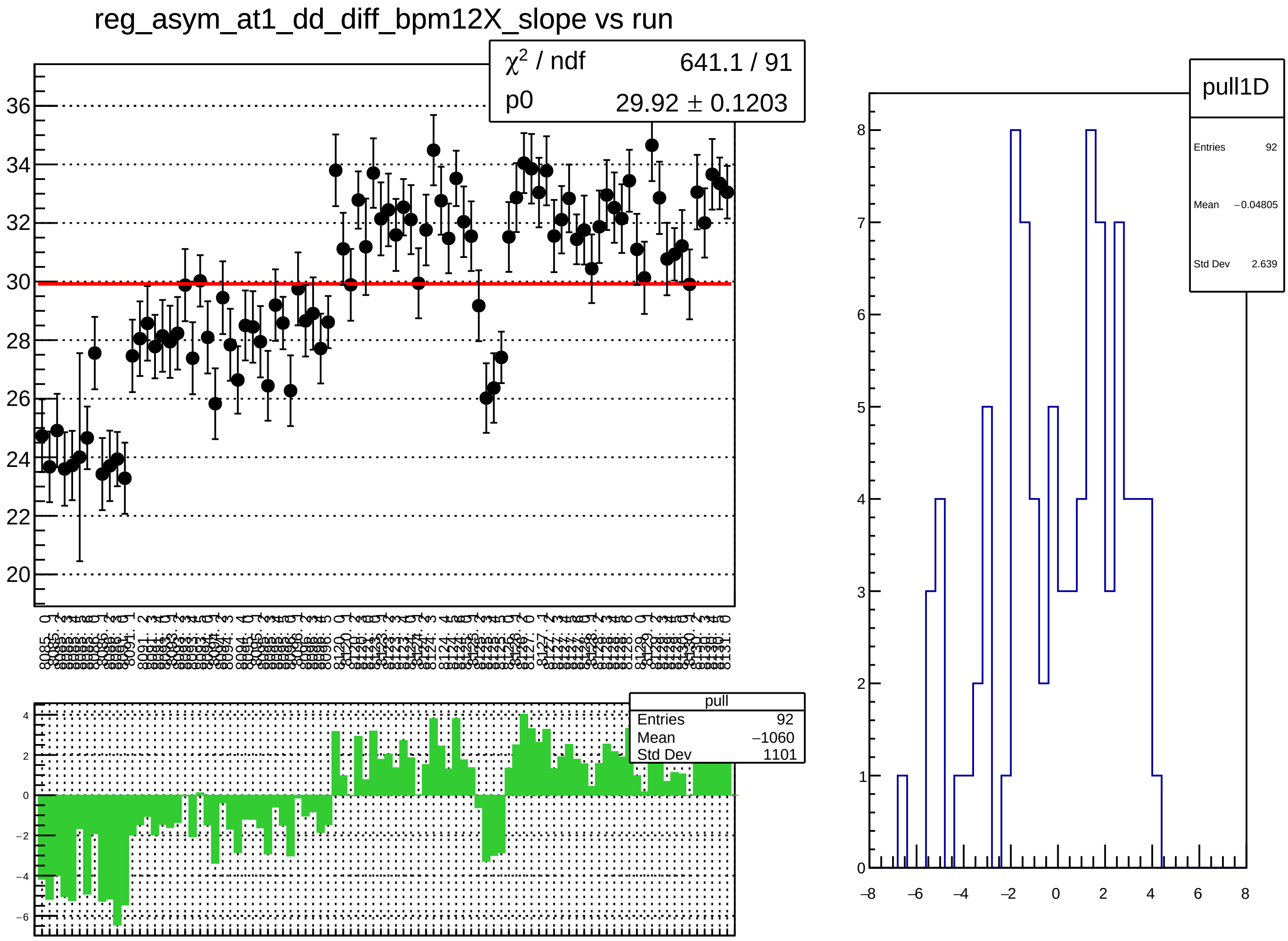
reg_asym_at1_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 75.61 / 91
p0 −0.716 ± 2.947
pull
Entries 92
Mean −78.34
Std Dev 97.26
pull1D
Entries 92
Mean 0.01089
Std Dev 0.9065

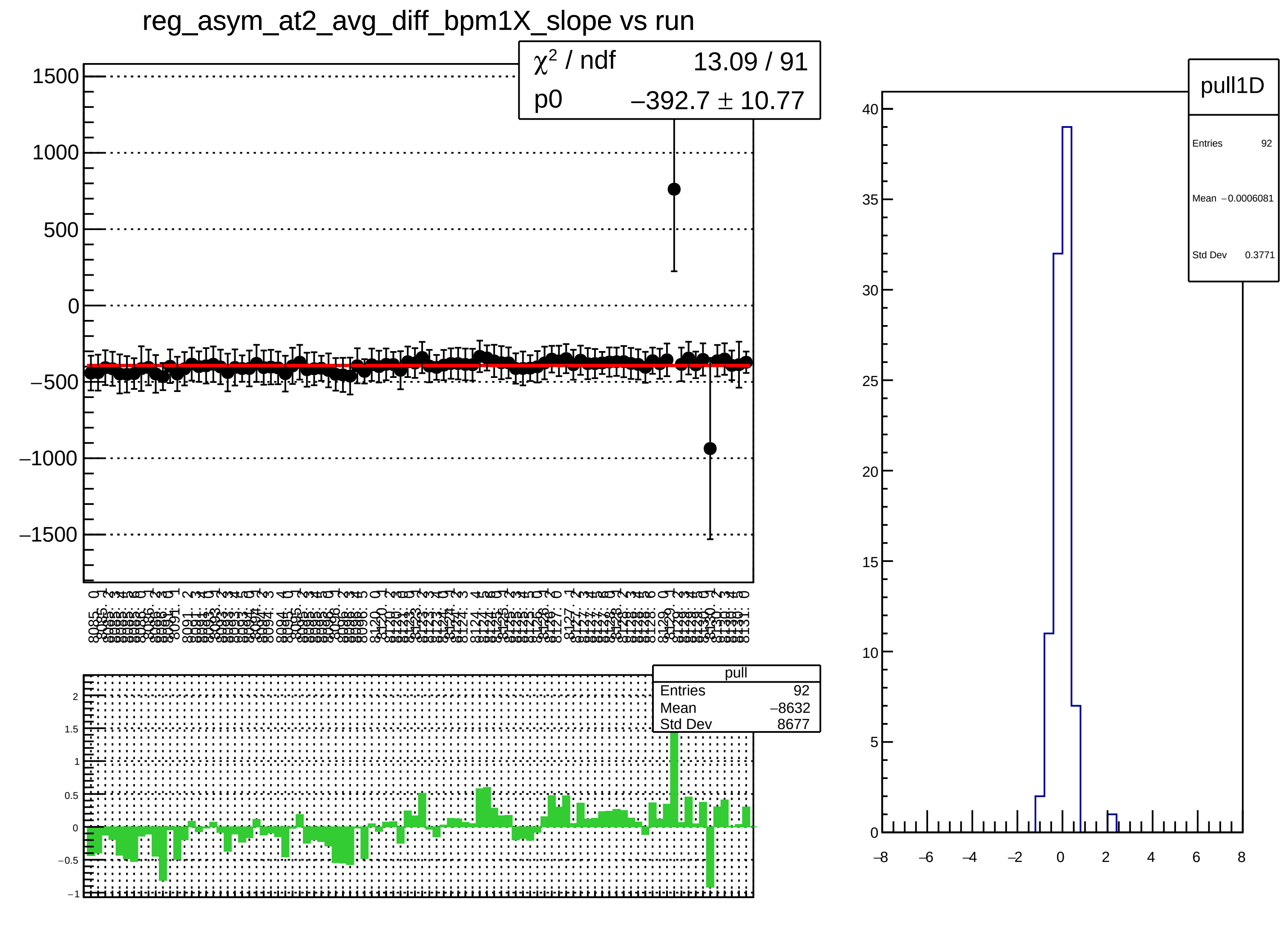


reg_asym_at1_dd_diff_bpm4eX_slope vs run
χ2 / ndf 94.43 / 91
p0 −15.15 ± 1.907
pull
Entries 92
Mean 637.3
Std Dev 601.5
pull1D
Entries 92
Mean −0.01502
Std Dev 1.013

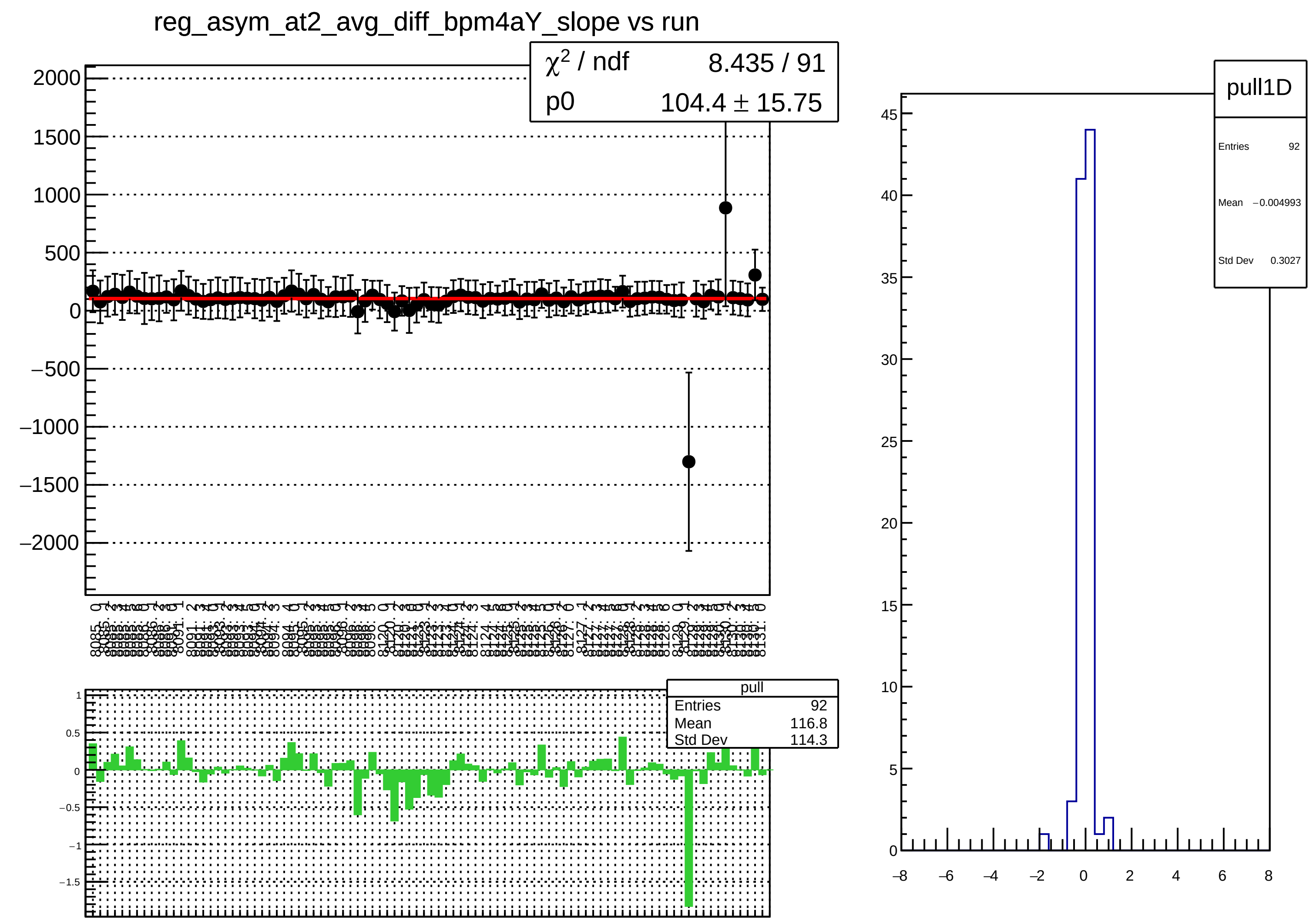


reg_asym_at1_dd_diff_bpm4eY_slope vs run
χ2 / ndf 74.87 / 91
p0 −7.761 ± 3.148
pull
Entries 92
Mean −21
Std Dev 33.56
pull1D
Entries 92
Mean −0.0128
Std Dev 0.902

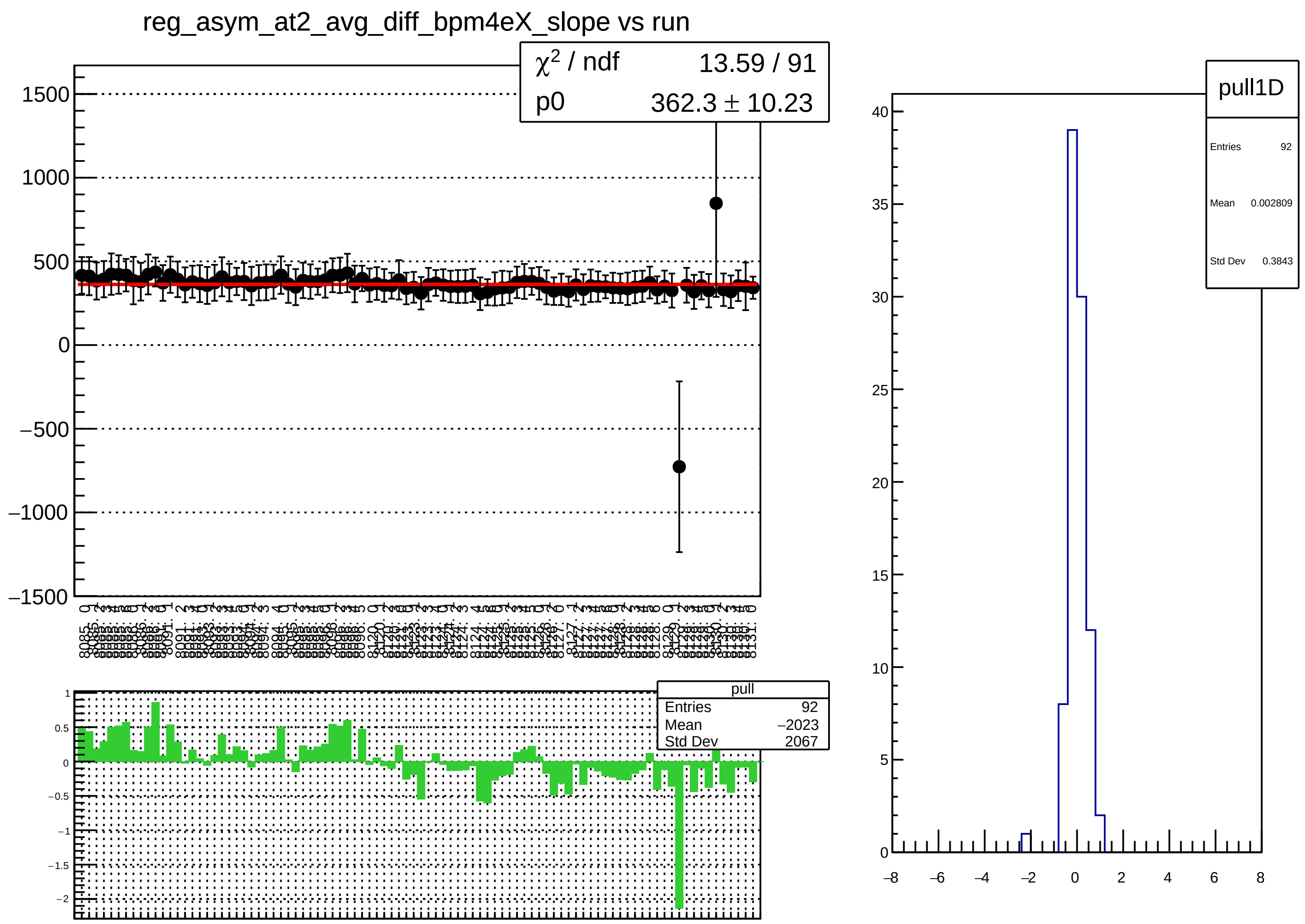

reg_asym_at1_dd_diff_bpm12X_slope vs run
χ2 / ndf 641.1 / 91
p0 29.92 ± 0.1203
pull
Entries 92
Mean −1060
Std Dev 1101
pull1D
Entries 92
Mean −0.04805
Std Dev 2.639



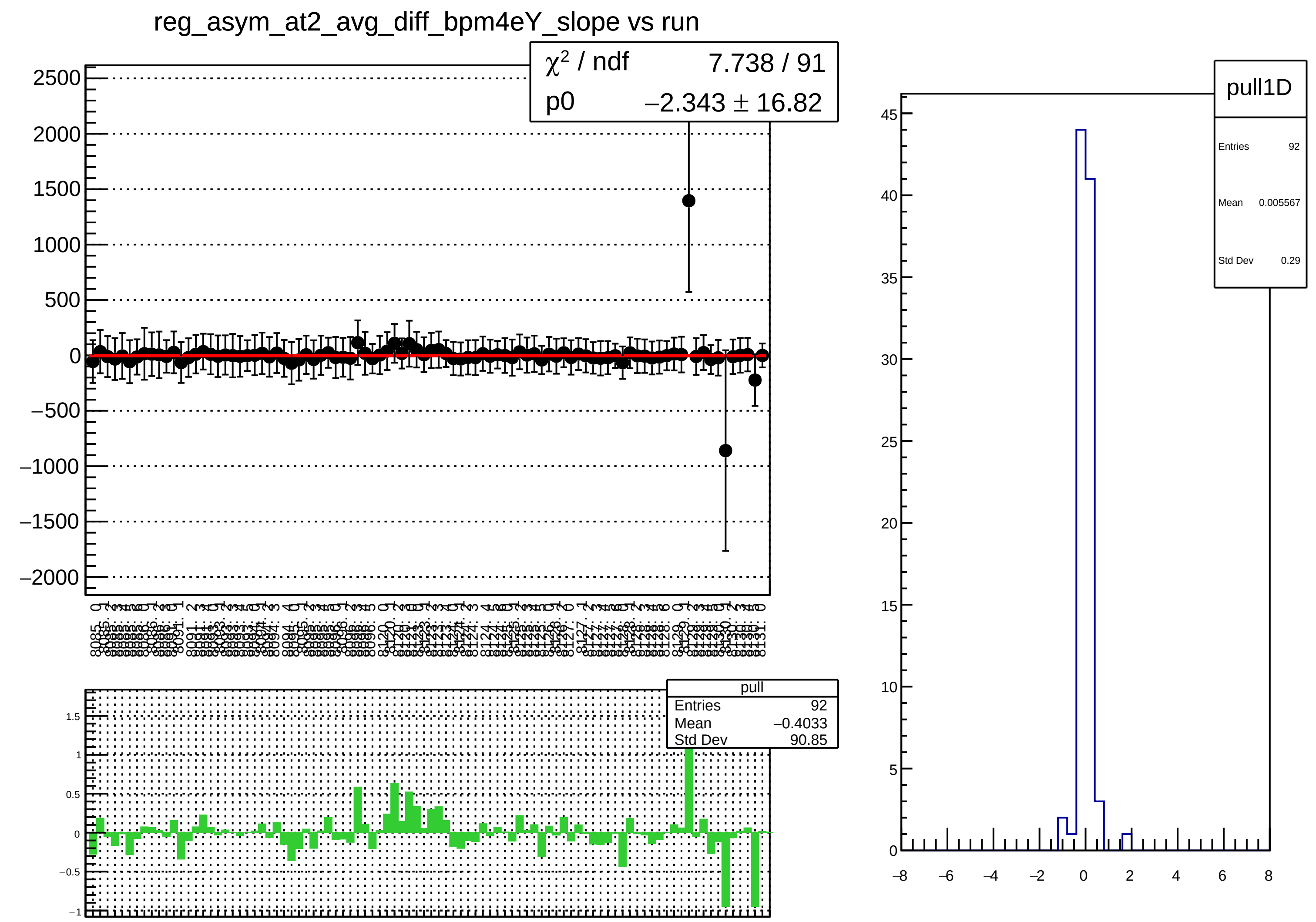
reg_asym_at2_avg_diff_bpm1X_slope vs run
χ2 / ndf 13.09 / 91
p0 −392.7 ± 10.77
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −8632
Std Dev 8677
2
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.0006081
Std Dev 0.3771
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



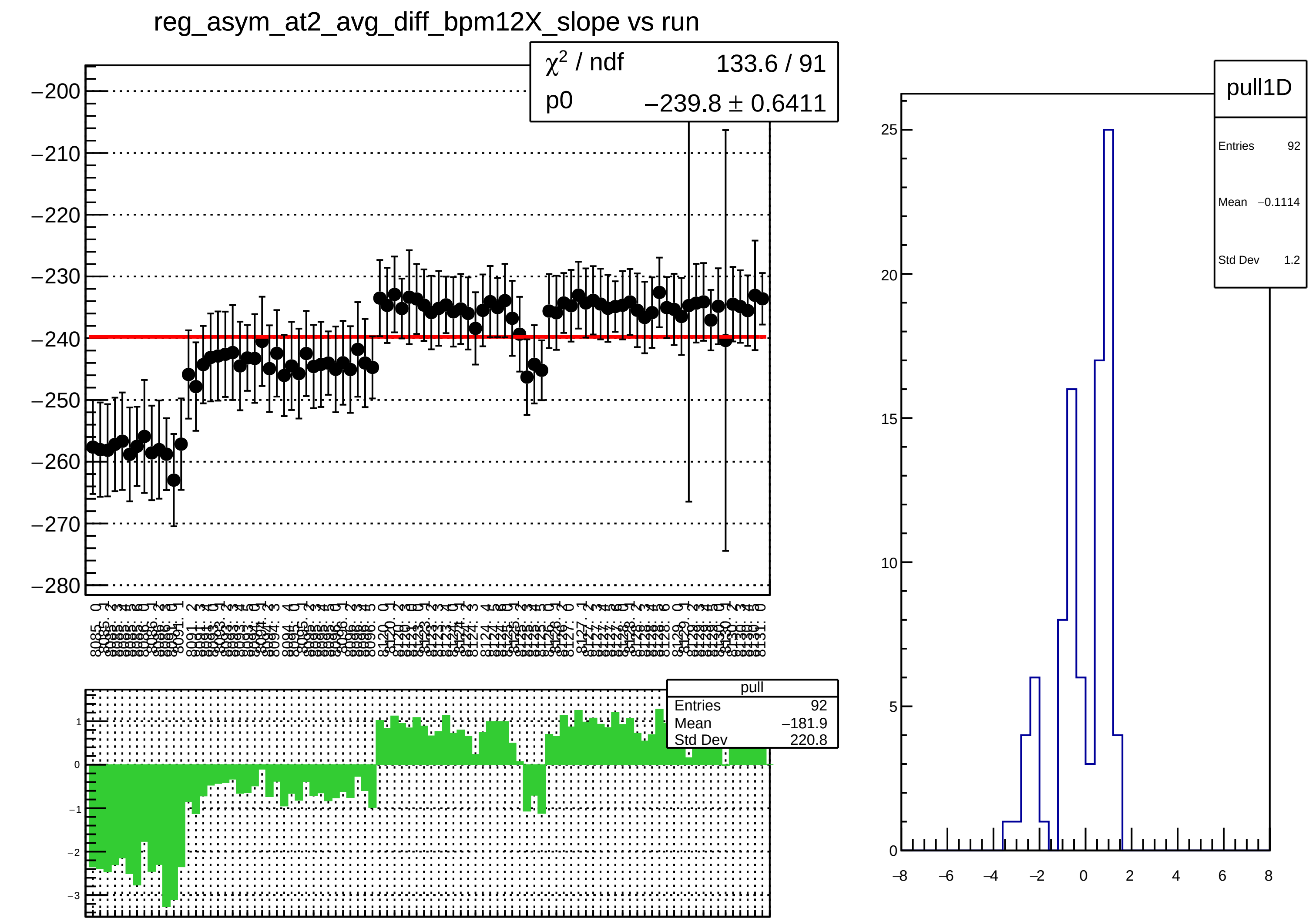
reg_asym_at2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 8.435 / 91
p0 104.4 ± 15.75
pull
Entries 92
Mean 116.8
Std Dev 114.3
pull1D
Entries 92
Mean −0.004993
Std Dev 0.3027



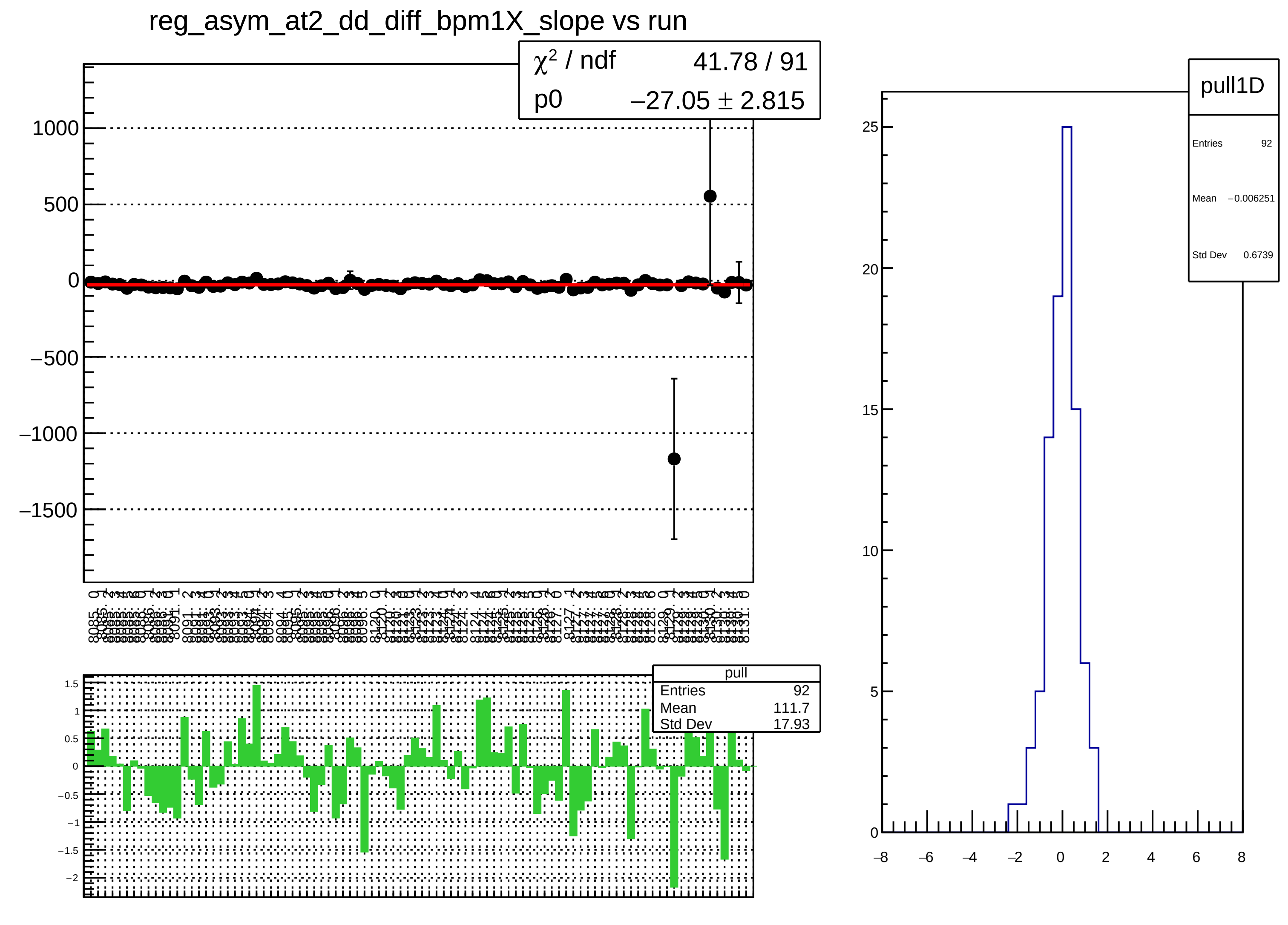
reg_asym_at2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 13.59 / 91
p0 362.3 ± 10.23
pull
Entries 92
Mean −2023
Std Dev 2067
pull1D
Entries 92
Mean 0.002809
Std Dev 0.3843

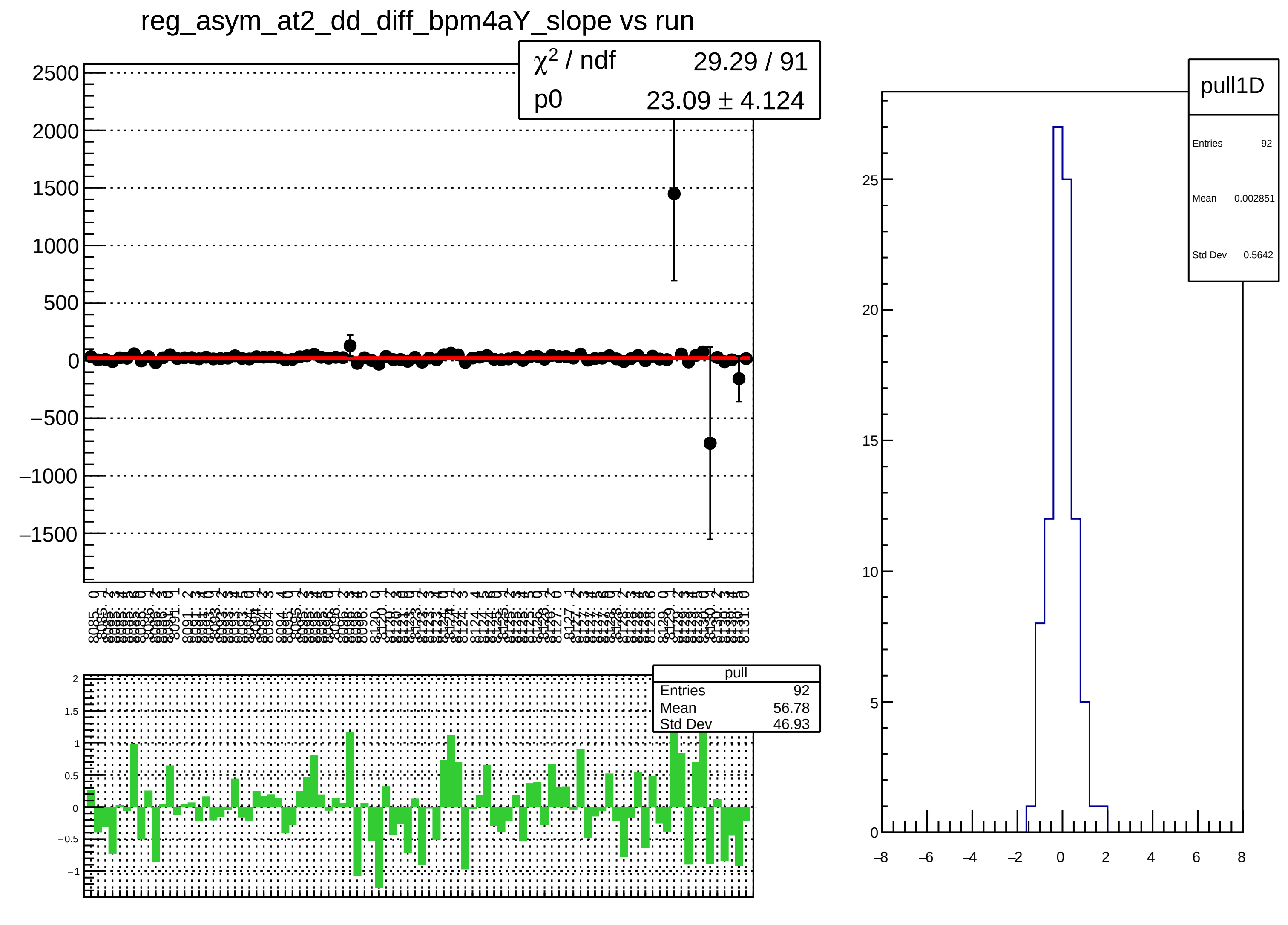


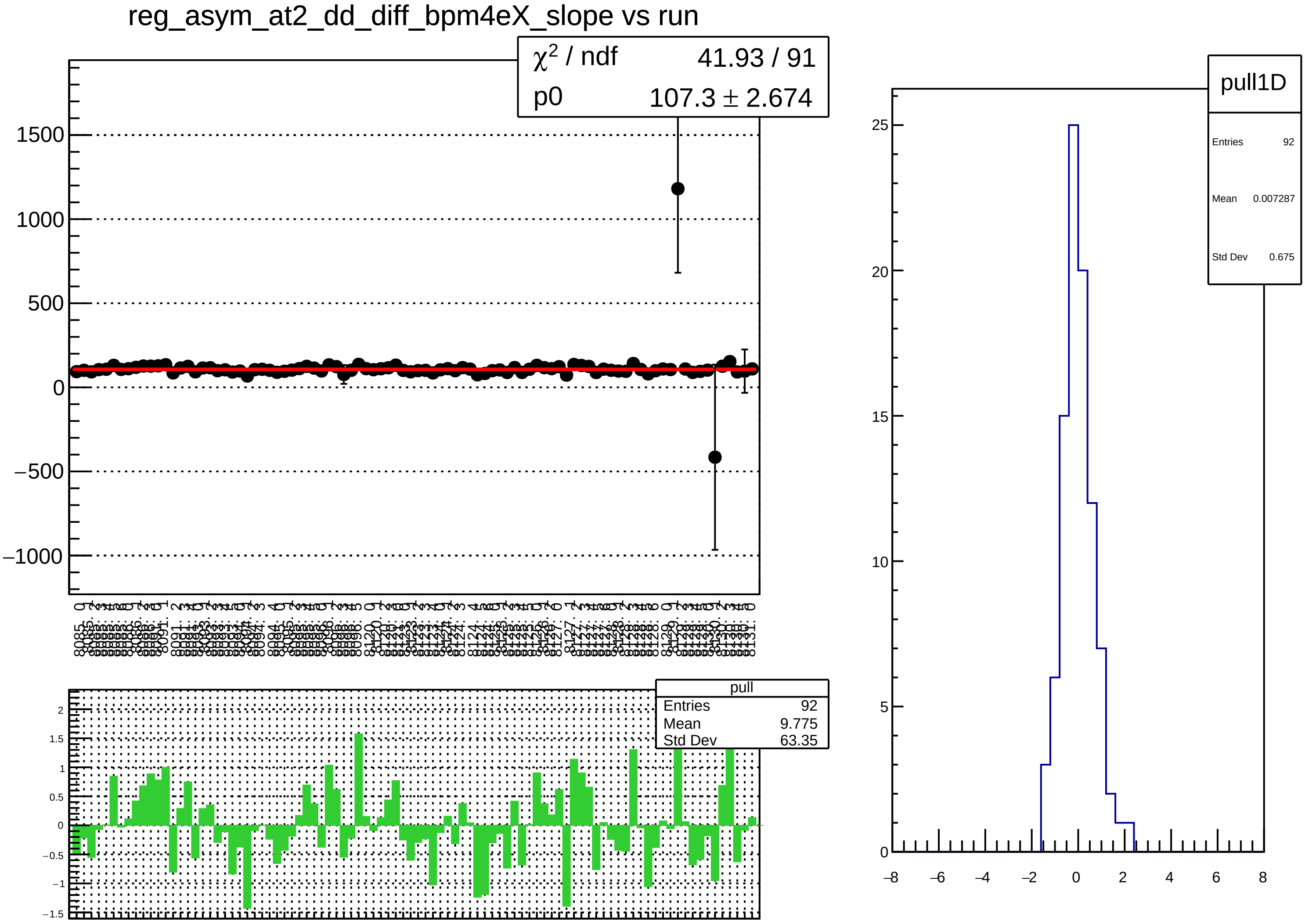
reg_asym_at2_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 7.738 / 91
p0 −2.343 ± 16.82
pull
Entries 92
Mean −0.4033
Std Dev 90.85
pull1D
Entries 92
Mean 0.005567
Std Dev 0.29

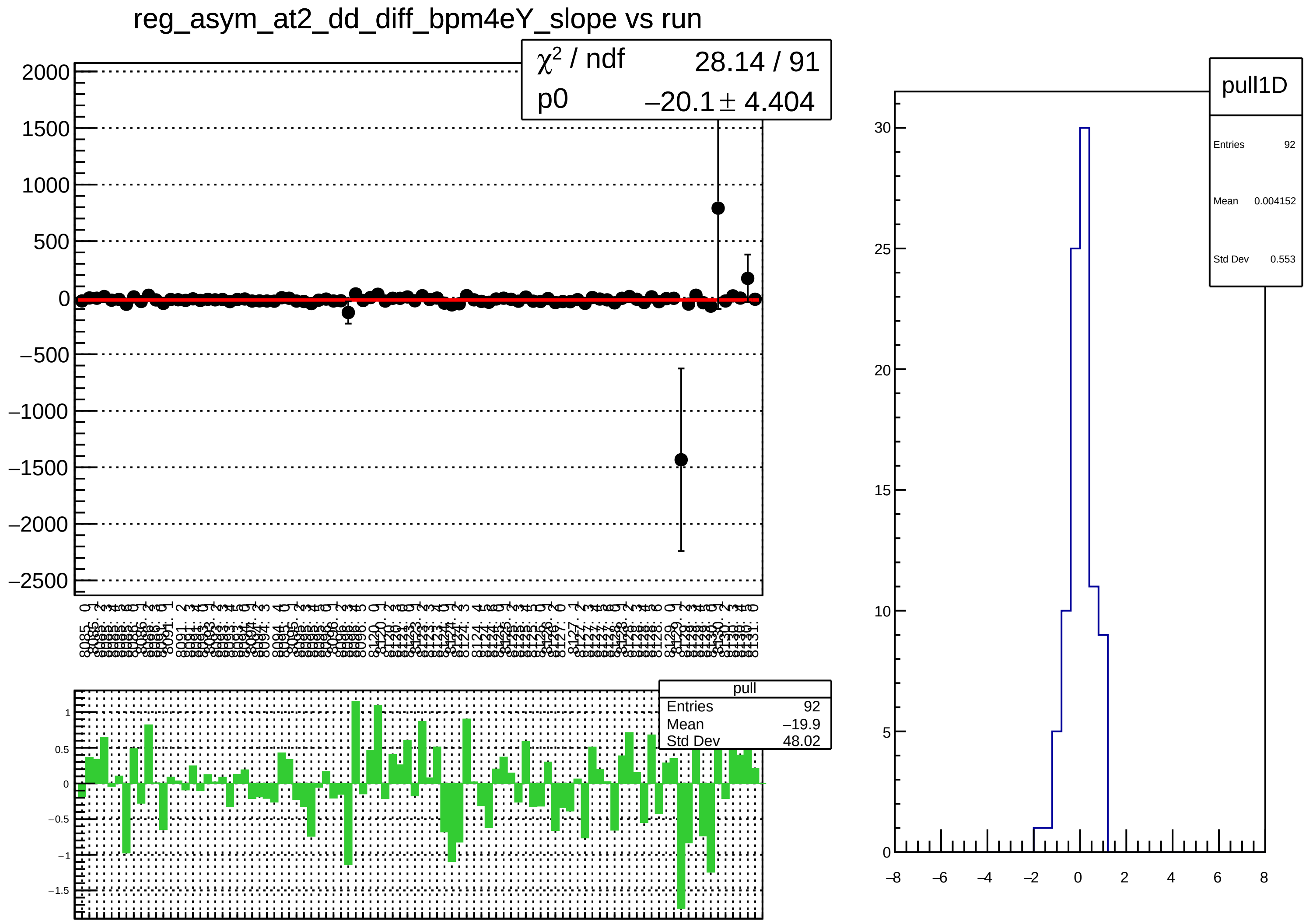


reg_asym_at2_avg_diff_bpm12X_slope vs run
χ^2 / ndf 133.6 / 91
p0 −239.8 ± 0.6411
−200
−210
−220
−230
−240
−250
−260
−270
−280
pull
Entries 92
Mean −181.9
Std Dev 220.8
pull1D
Entries 92
Mean −0.1114
Std Dev 1.2


reg_asym_at2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 41.78 / 91
p0 −27.05 ± 2.815
pull
Entries 92
Mean 111.7
Std Dev 17.93
pull1D
Entries 92
Mean −0.006251
Std Dev 0.6739

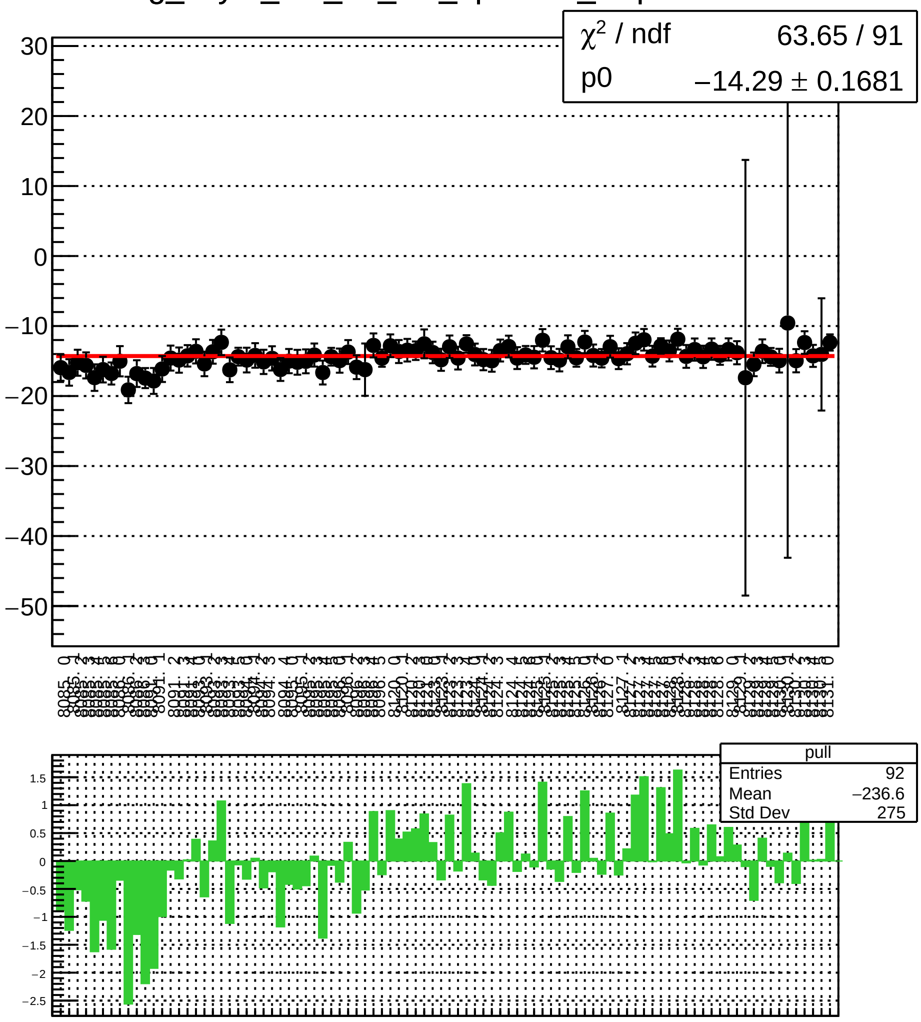

reg_asym_at2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 29.29 / 91
p0 23.09 ± 4.124
pull
Entries 92
Mean −56.78
Std Dev 46.93
pull1D
Entries 92
Mean −0.002851
Std Dev 0.5642

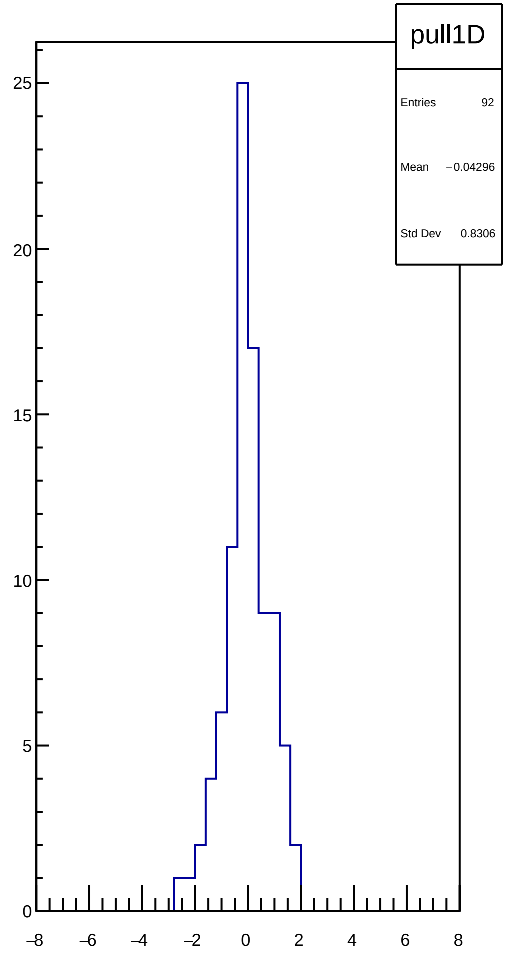

reg_asym_at2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 41.93 / 91
p0 107.3 ± 2.674
pull
Entries 92
Mean 9.775
Std Dev 63.35
pull1D
Entries 92
Mean 0.007287
Std Dev 0.675

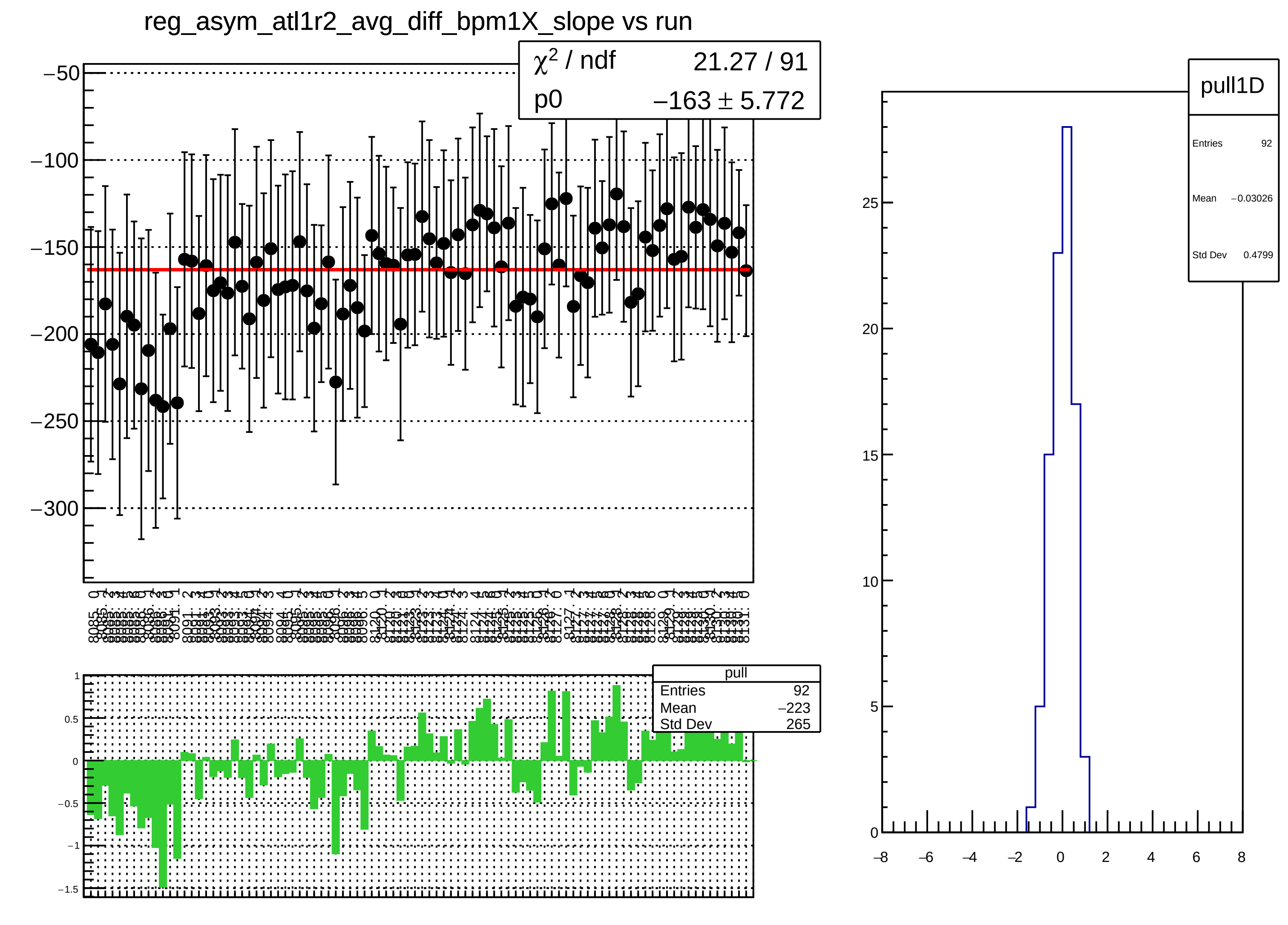


reg_asym_at2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 28.14 / 91
p0 −20.1 ± 4.404
pull
Entries 92
Mean −19.9
Std Dev 48.02
pull1D
Entries 92
Mean 0.004152
Std Dev 0.553

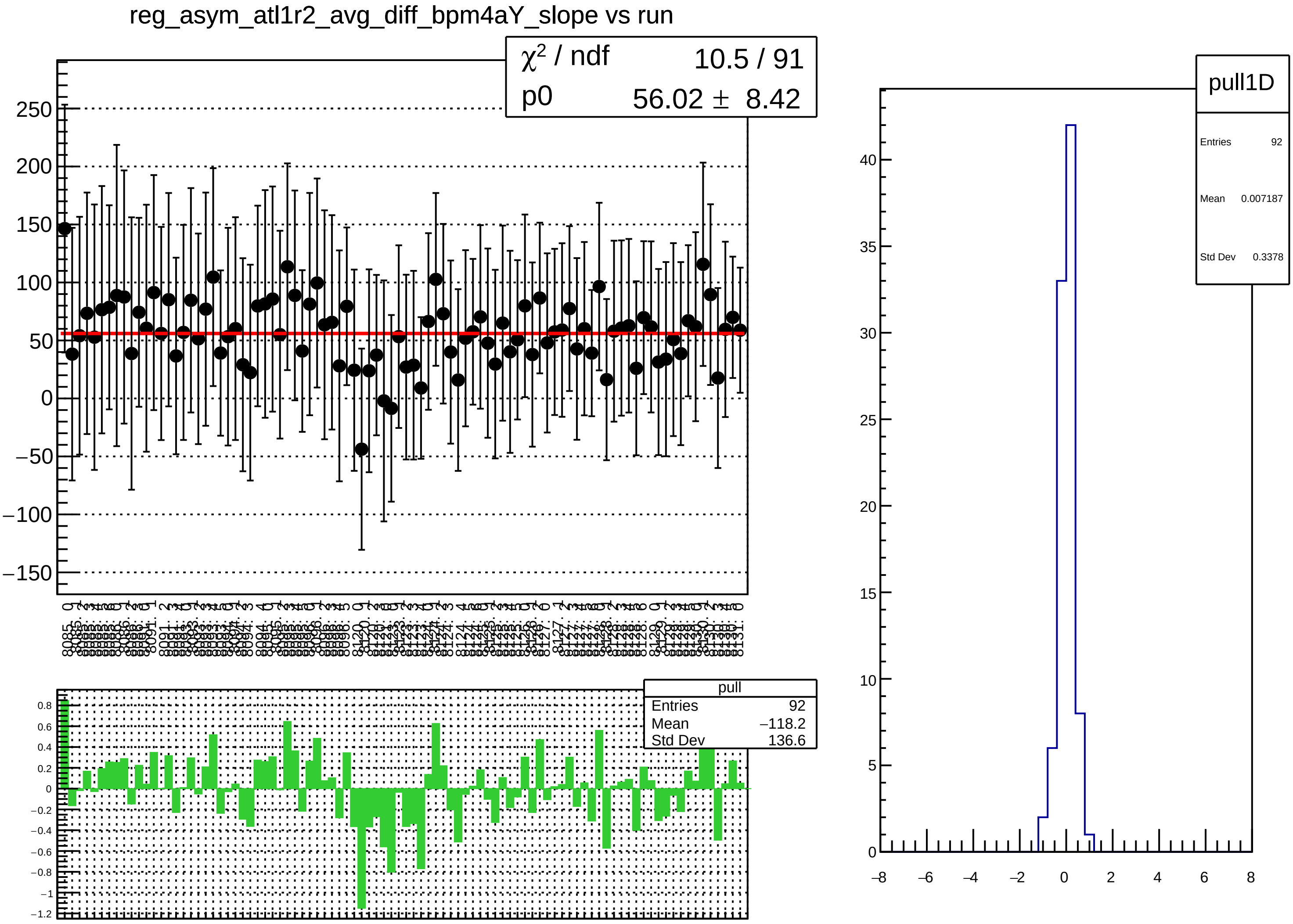
reg_asym_at2_dd_diff_bpm12X_slope vs run



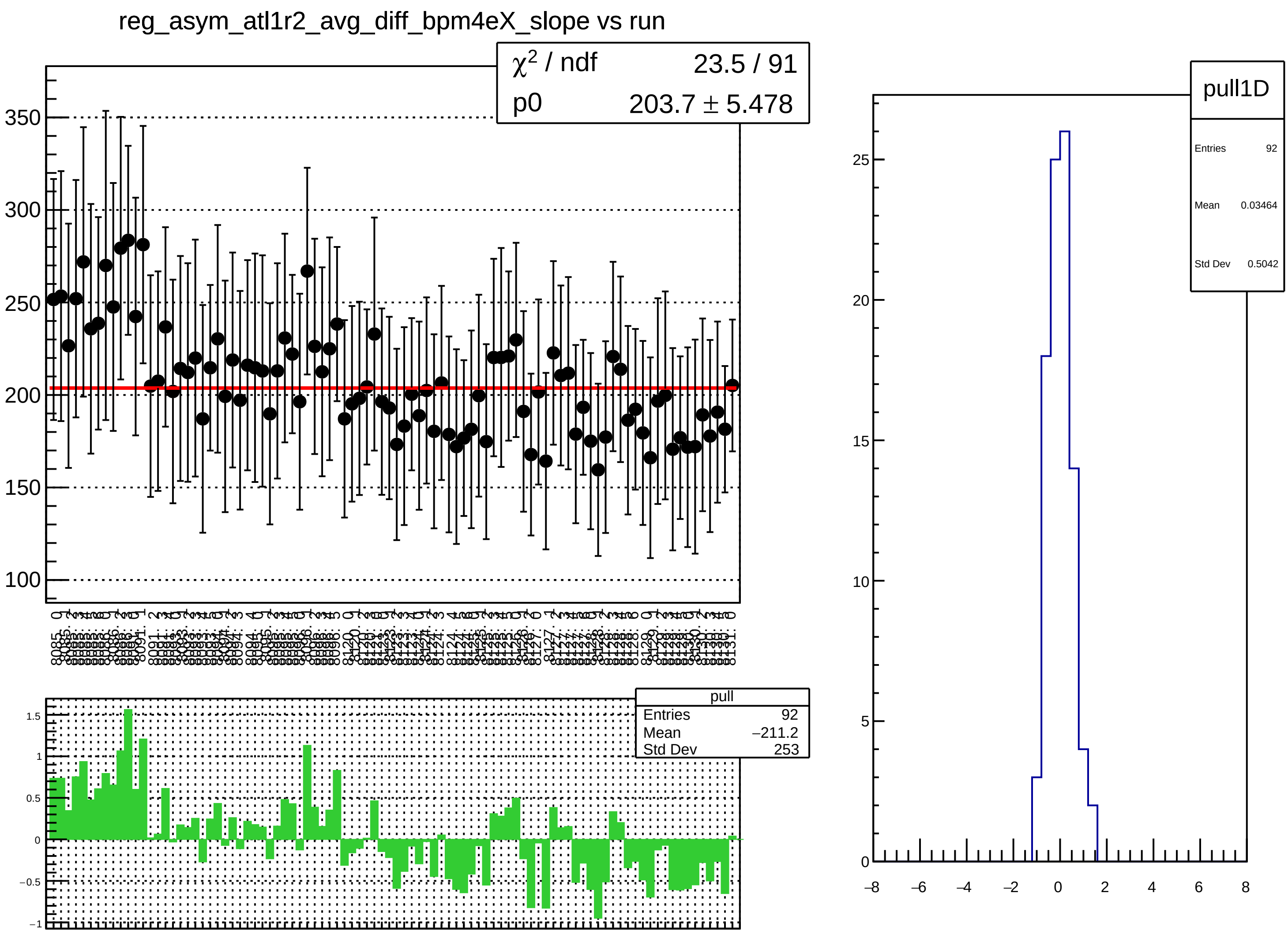




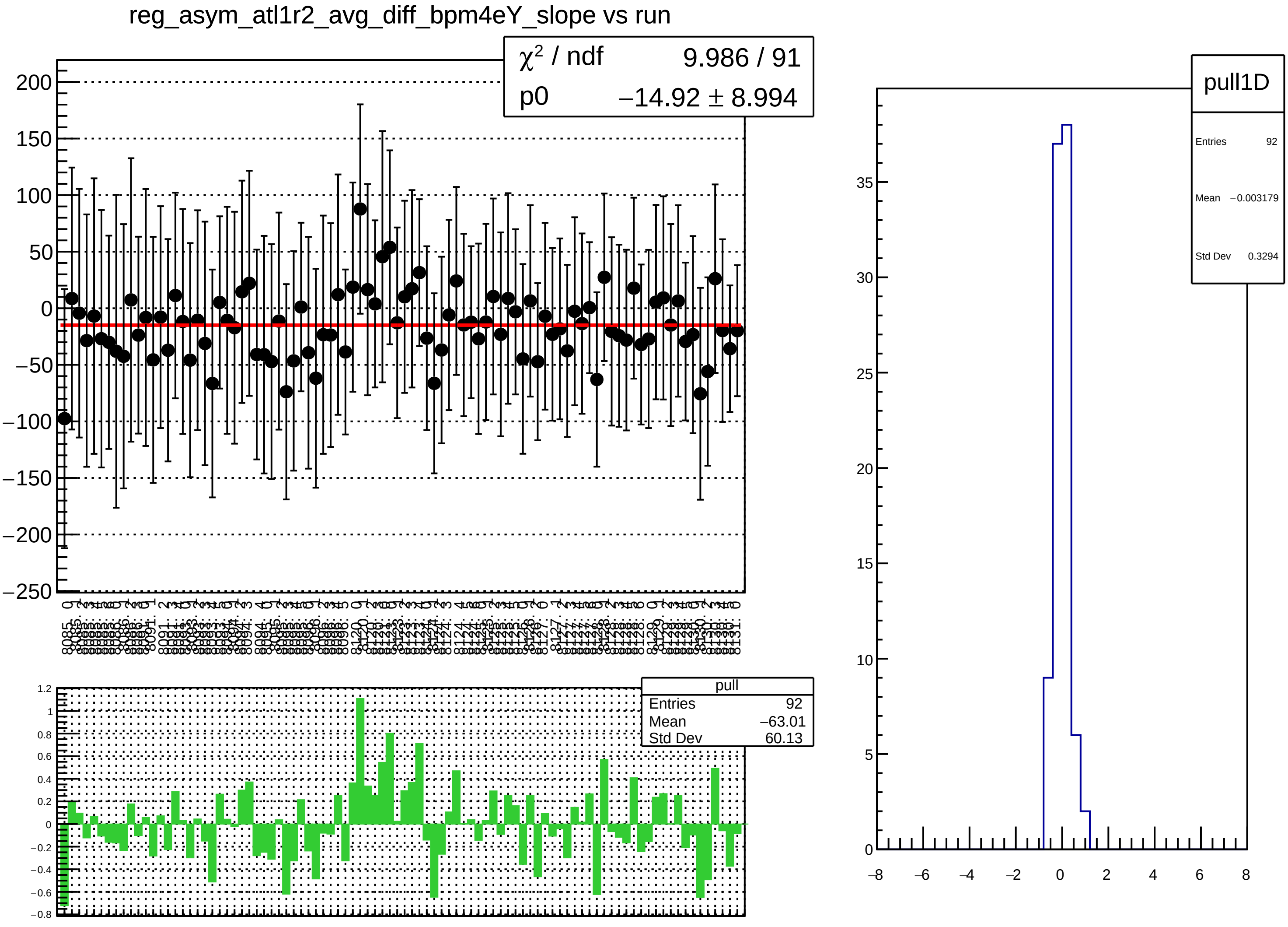
reg_asym_atl1r2_avg_diff_bpm1X_slope vs run
χ^2 / ndf 21.27 / 91
p0 −163 ± 5.772
pull
Entries 92
Mean −223
Std Dev 265
pull1D
Entries 92
Mean −0.03026
Std Dev 0.4799



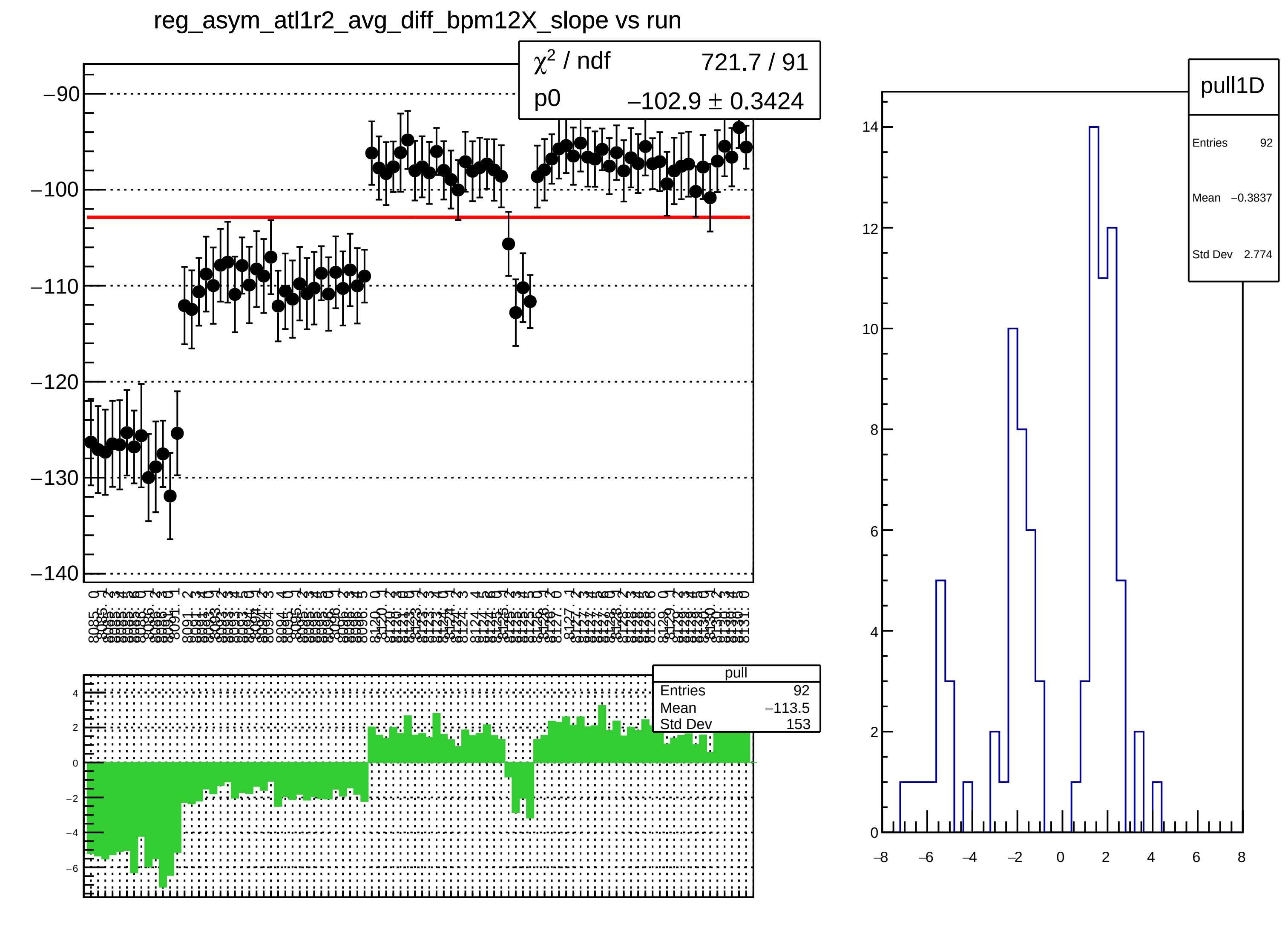
reg_asym_atl1r2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 10.5 / 91
p0 56.02 ± 8.42
pull
Entries 92
Mean −118.2
Std Dev 136.6
pull1D
Entries 92
Mean 0.007187
Std Dev 0.3378

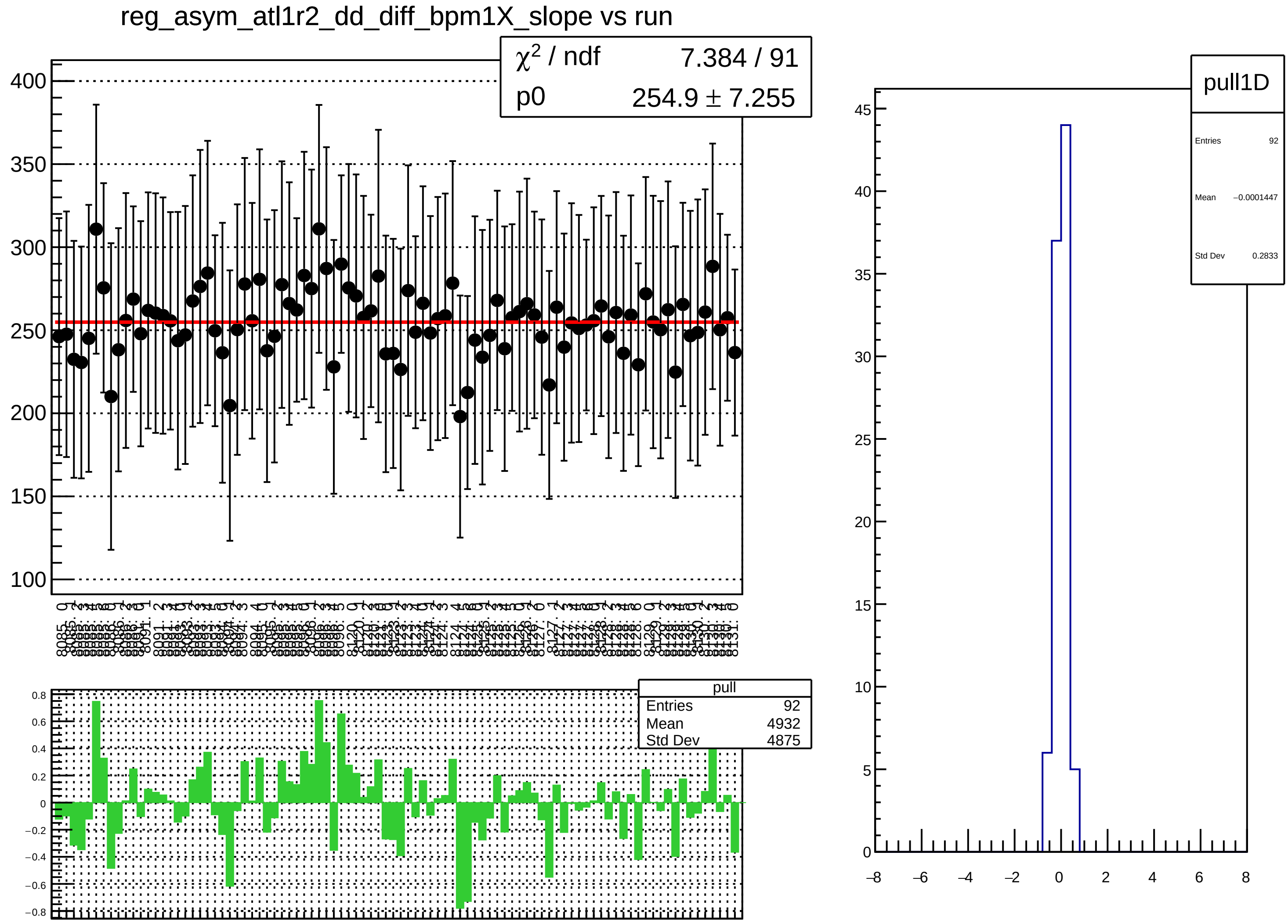


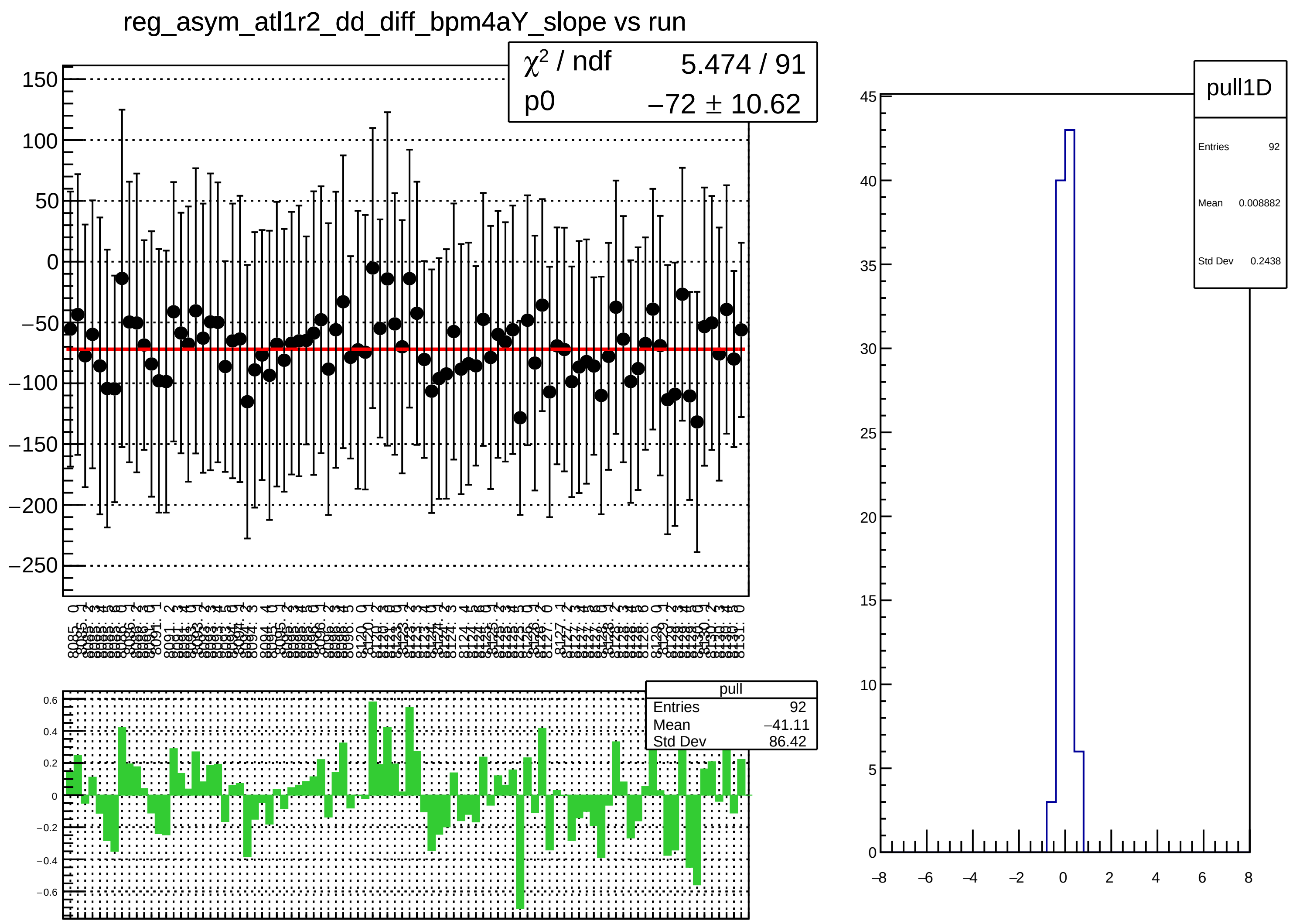
reg_asym_atl1r2_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 23.5 / 91
p0 203.7 ± 5.478
pull
Entries 92
Mean −211.2
Std Dev 253
pull1D
Entries 92
Mean 0.03464
Std Dev 0.5042



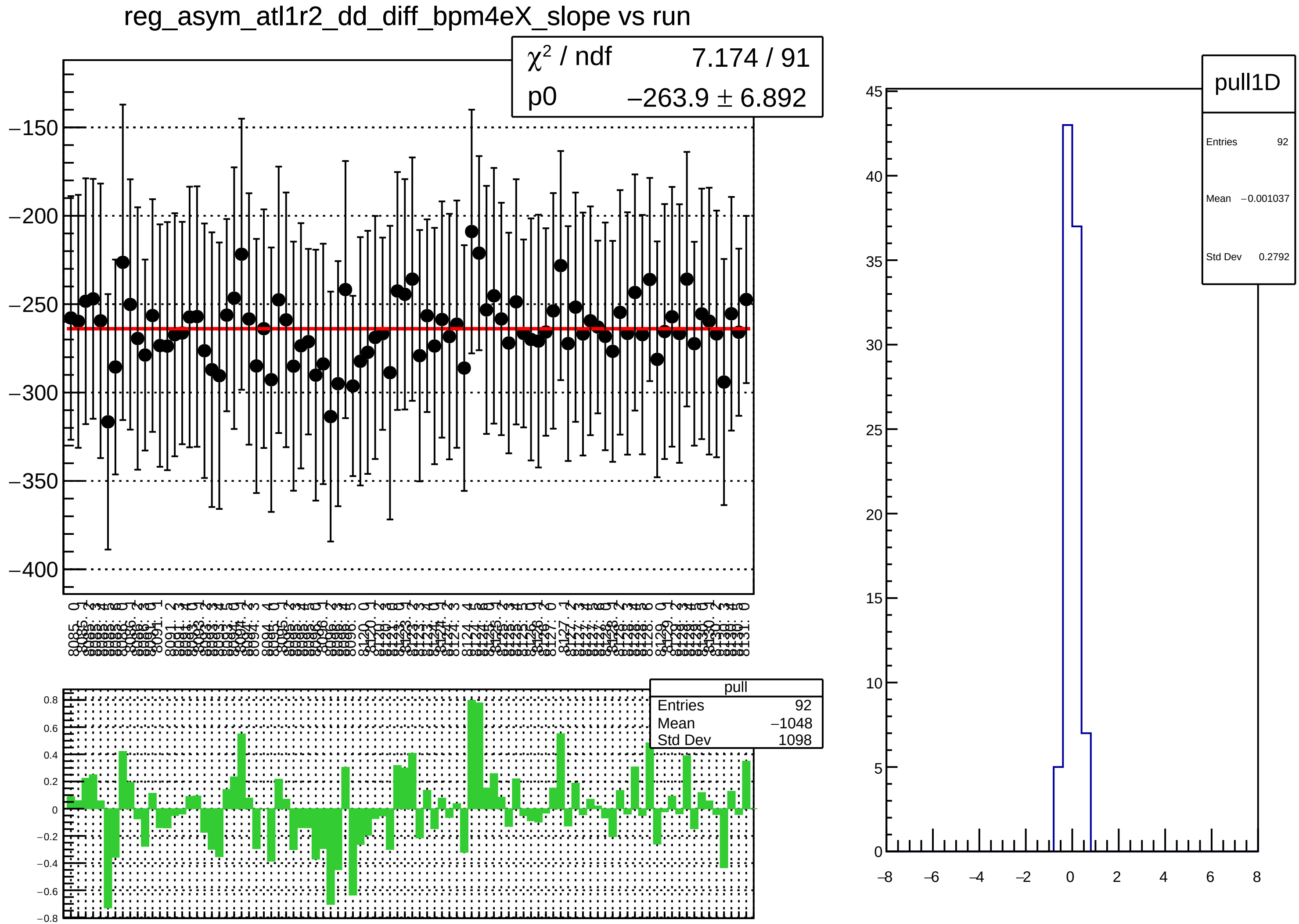
reg_asym_atl1r2_avg_diff_bpm4eY_slope vs run
χ2 / ndf 9.986 / 91
p0 −14.92 ± 8.994
pull
Entries 92
Mean −63.01
Std Dev 60.13
pull1D
Entries 92
Mean −0.003179
Std Dev 0.3294


reg_asym_atl1r2_avg_diff_bpm12X_slope vs run
χ2 / ndf 721.7 / 91
p0 −102.9 ± 0.3424
−90
−100
−110
−120
−130
−140
pull
Entries 92
Mean −113.5
Std Dev 153
pull1D
Entries 92
Mean −0.3837
Std Dev 2.774
0
2
4
6
8
10
12
14
−8
−6
−4
−2
0
2
4
6
8

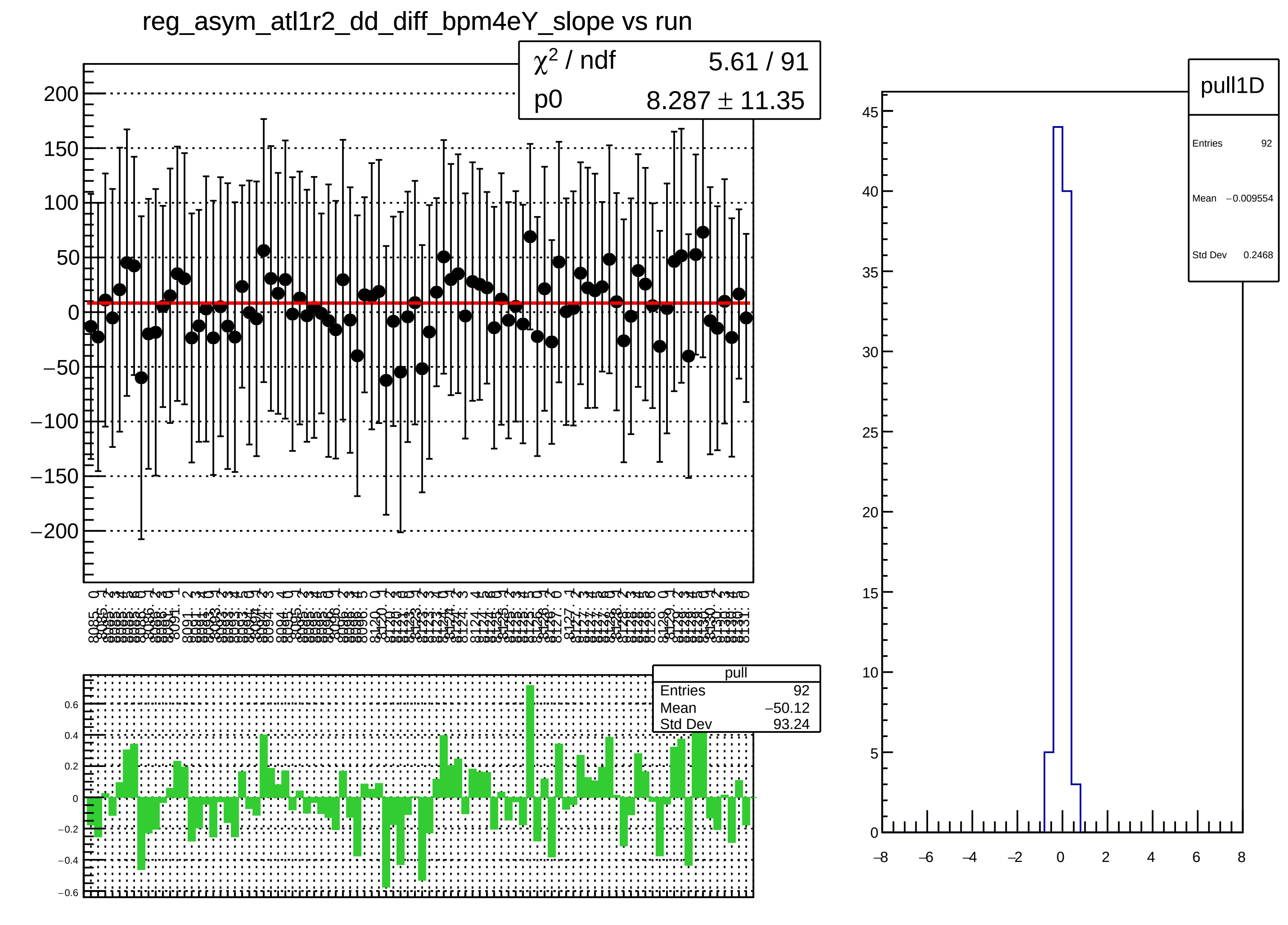

reg_asym_atl1r2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 7.384 / 91
p0 254.9 ± 7.255
pull
Entries 92
Mean 4932
Std Dev 4875
pull1D
Entries 92
Mean −0.0001447
Std Dev 0.2833



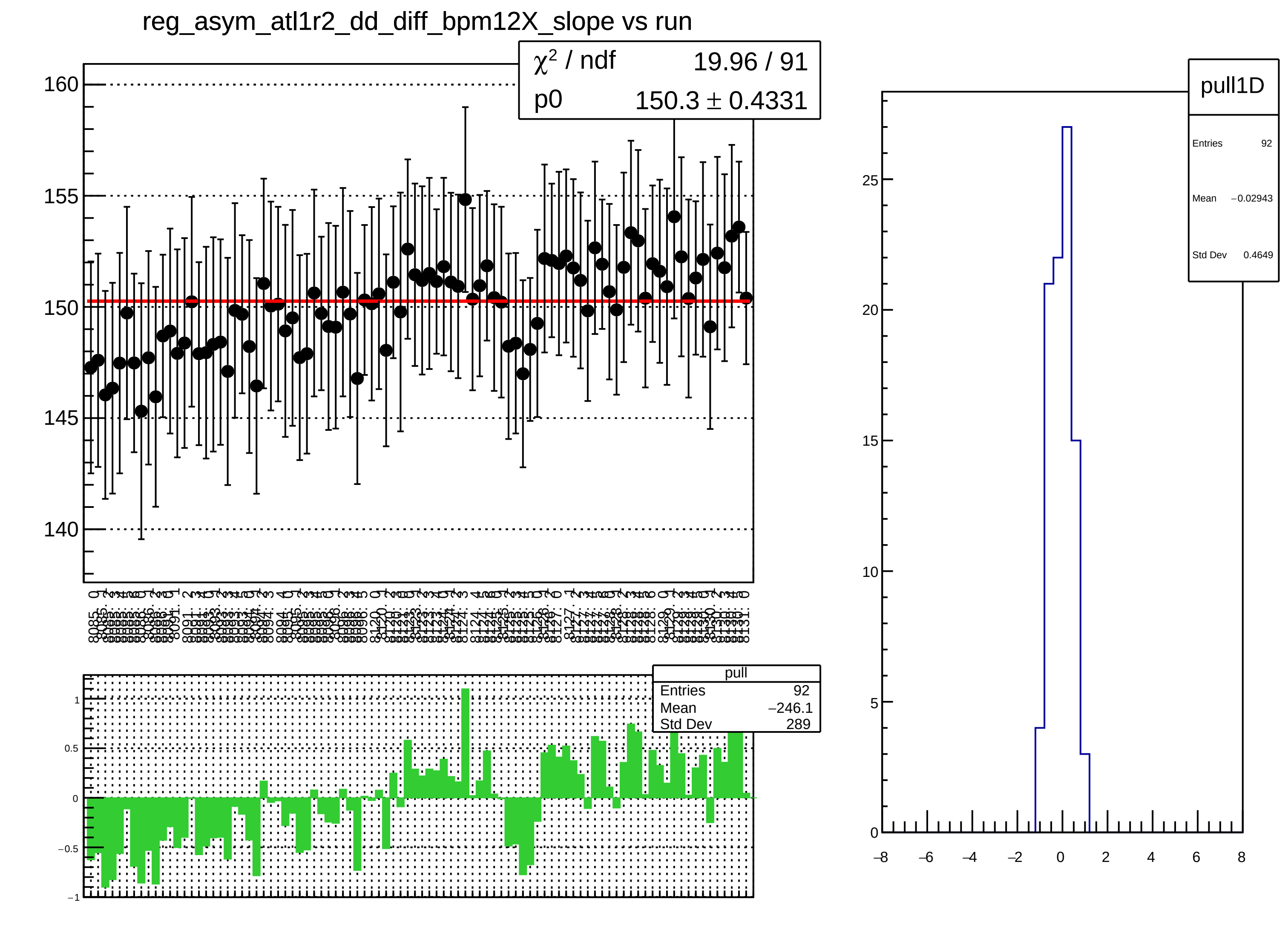
reg_asym_atl1r2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 5.474 / 91
p0 −72 ± 10.62
pull
Entries 92
Mean −41.11
Std Dev 86.42
pull1D
Entries 92
Mean 0.008882
Std Dev 0.2438

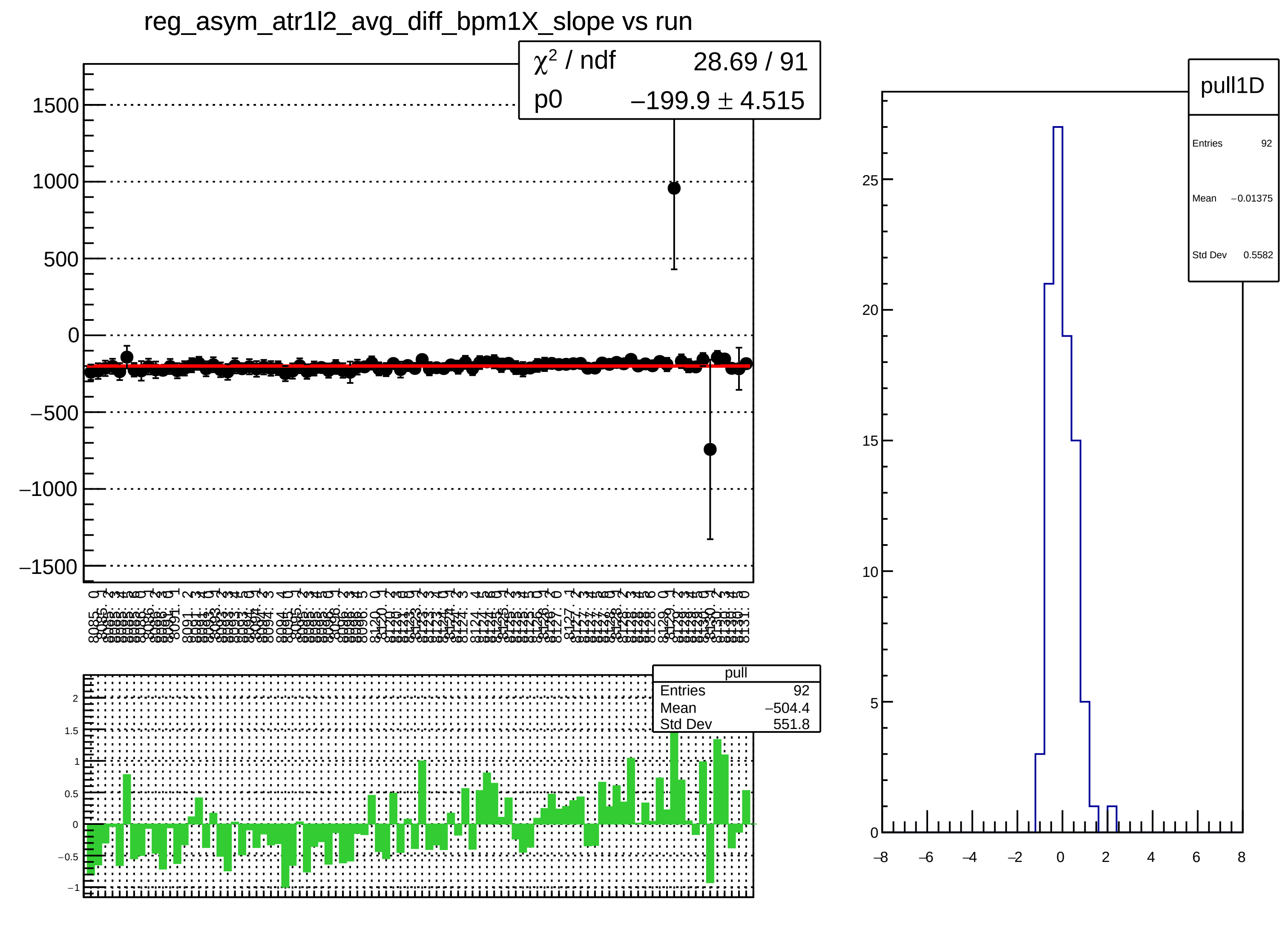


reg_asym_atl1r2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 7.174 / 91
p0 −263.9 ± 6.892
pull
Entries 92
Mean −1048
Std Dev 1098
pull1D
Entries 92
Mean −0.001037
Std Dev 0.2792

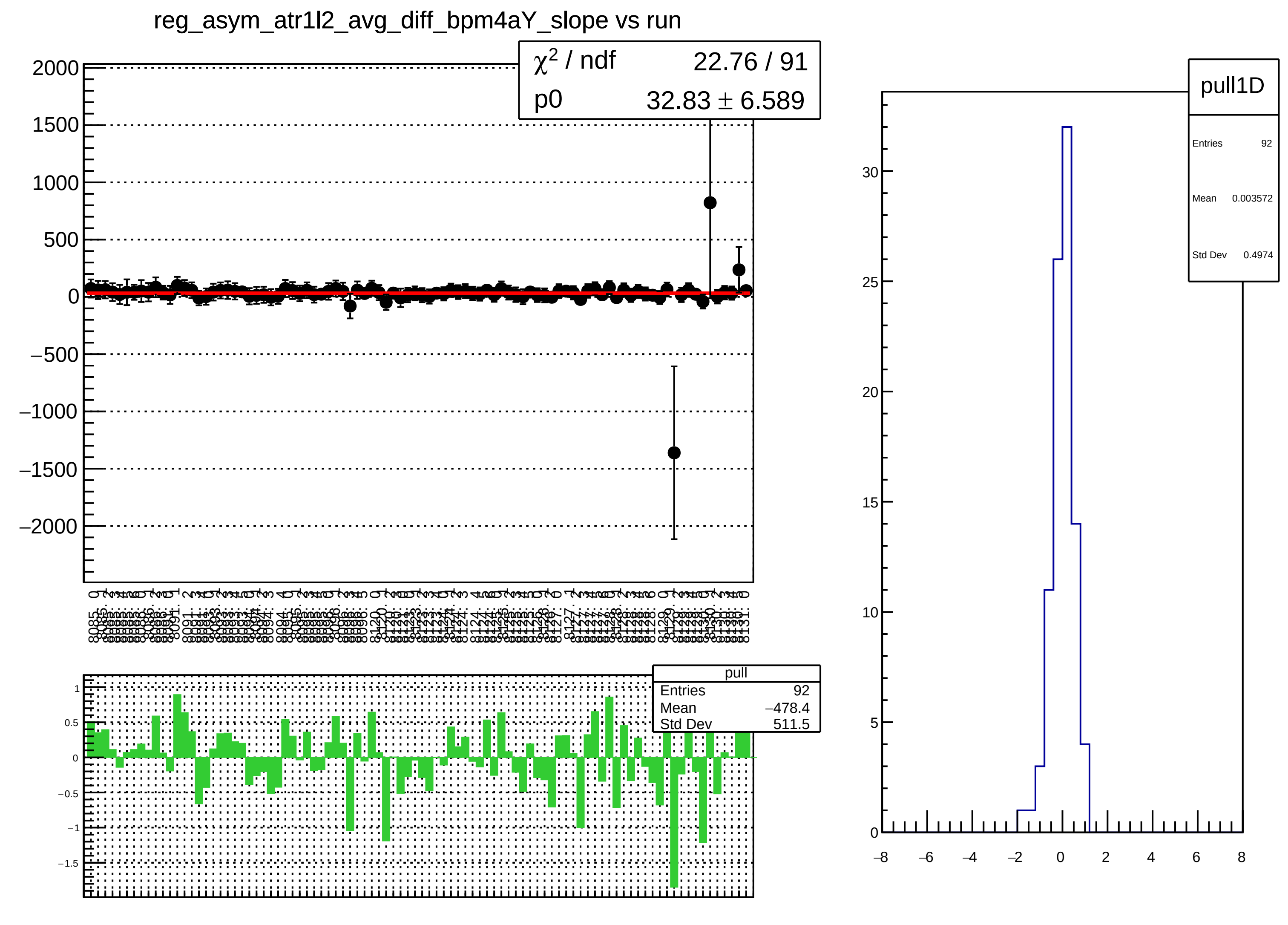


reg_asym_atl1r2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 5.61 / 91
p0 8.287 ± 11.35
pull
Entries 92
Mean −50.12
Std Dev 93.24
pull1D
Entries 92
Mean −0.009554
Std Dev 0.2468

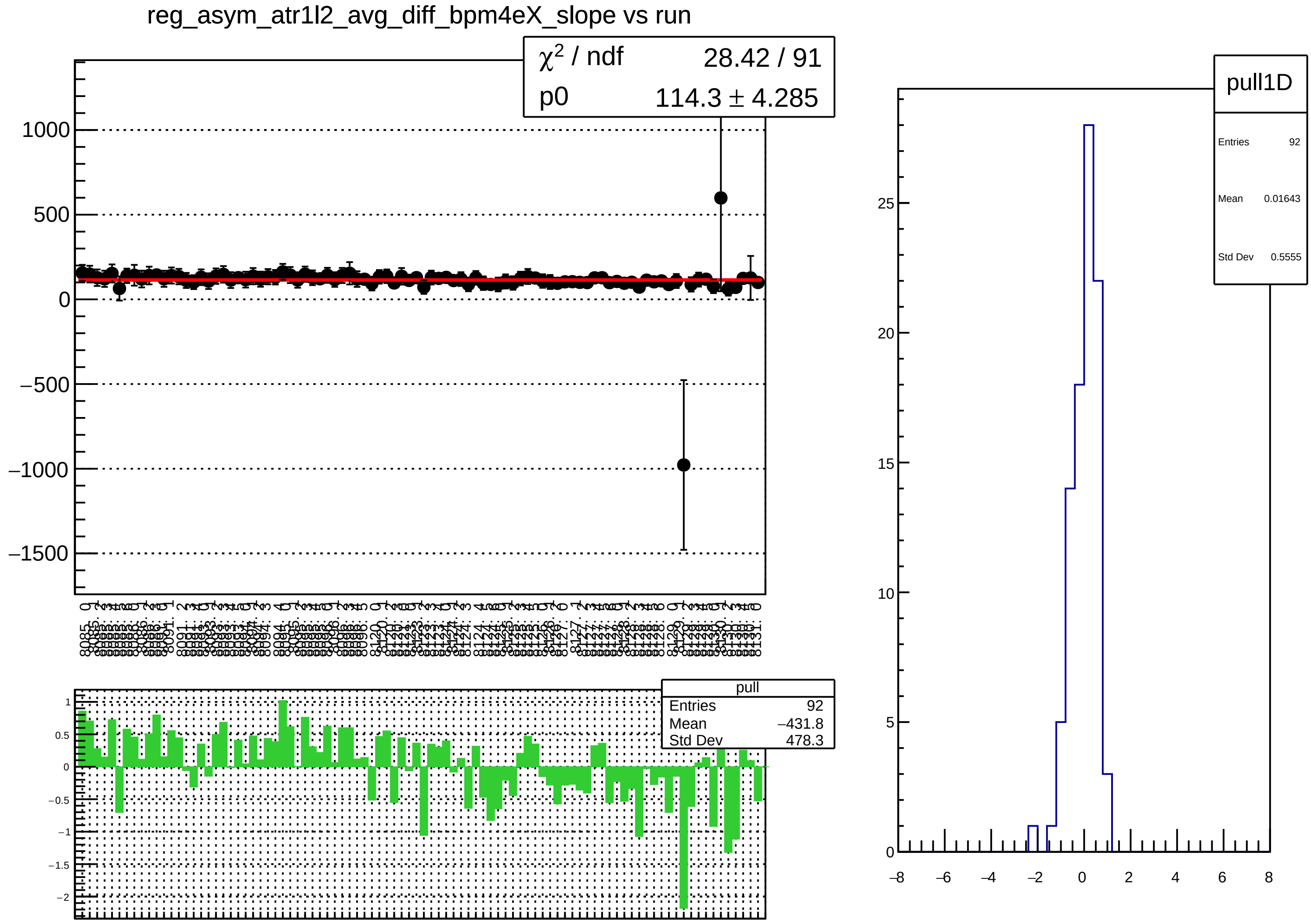

reg_asym_atl1r2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 19.96 / 91
p0 150.3 ± 0.4331
pull
Entries 92
Mean −246.1
Std Dev 289
pull1D
Entries 92
Mean −0.02943
Std Dev 0.4649



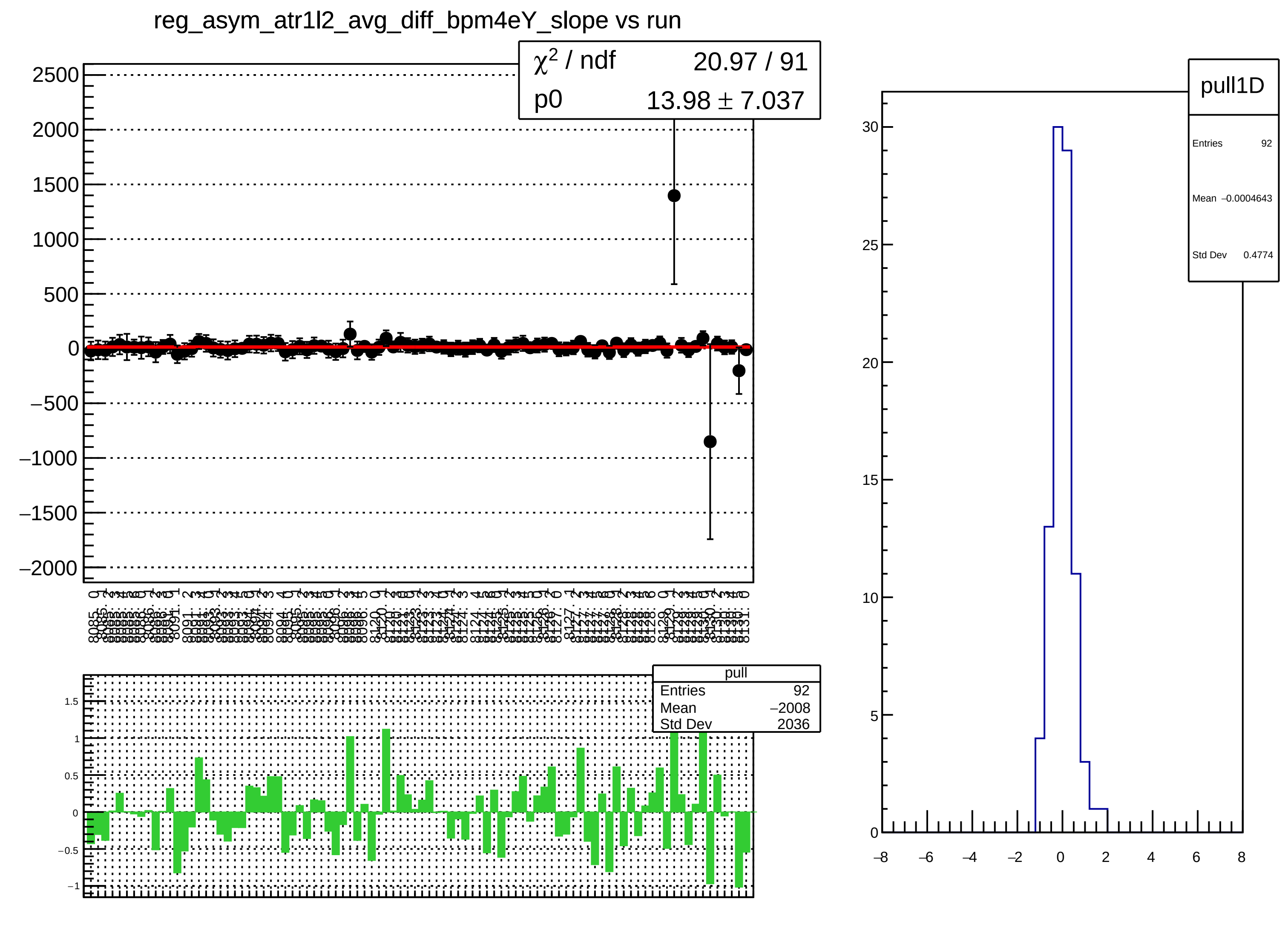
reg_asym_atr1l2_avg_diff_bpm1X_slope vs run
χ2 / ndf 28.69 / 91
p0 −199.9 ± 4.515
pull
Entries 92
Mean −504.4
Std Dev 551.8
pull1D
Entries 92
Mean −0.01375
Std Dev 0.5582



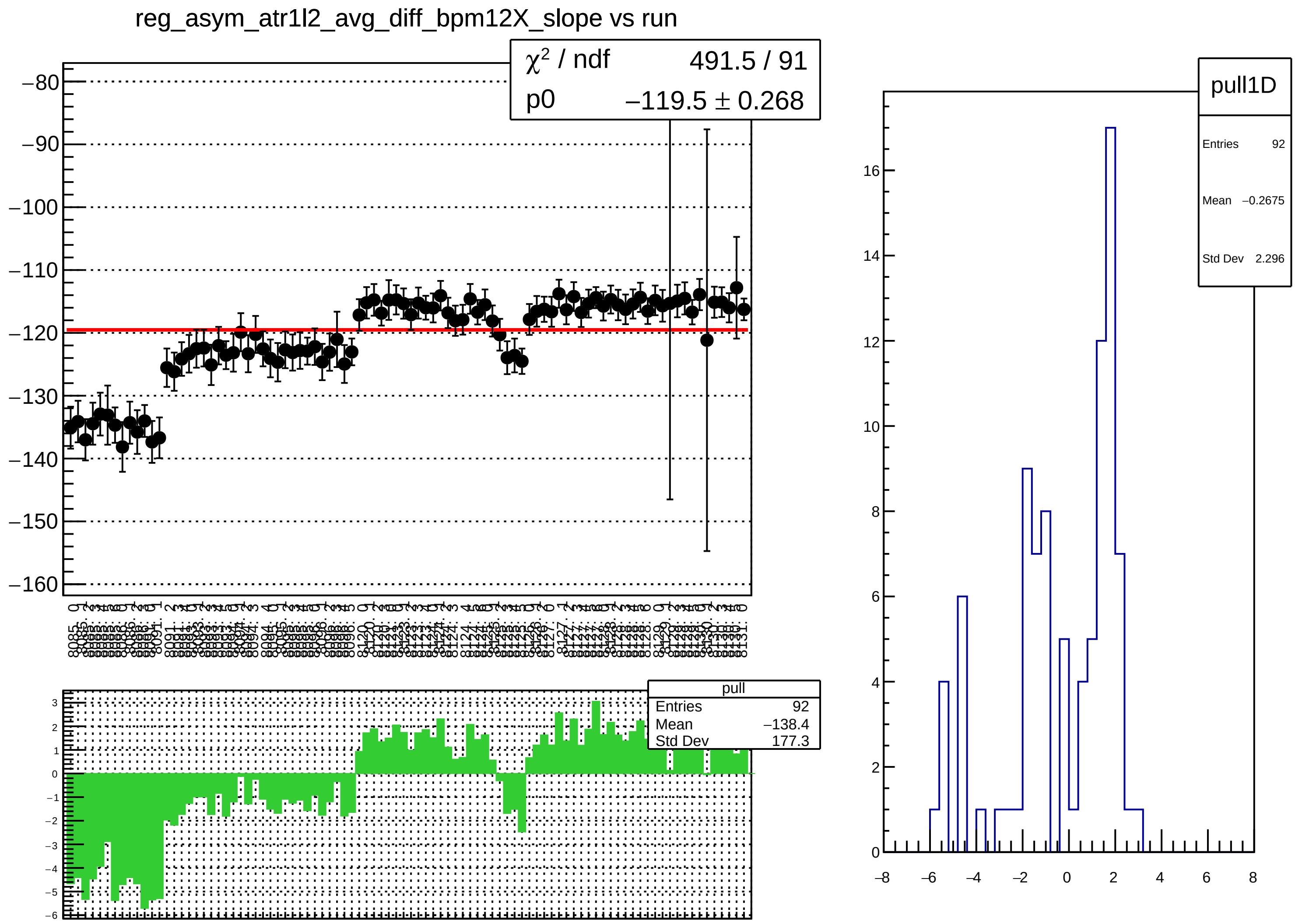
reg_asym_atr1l2_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 22.76 / 91
p0 32.83 ± 6.589
pull
Entries 92
Mean −478.4
Std Dev 511.5
pull1D
Entries 92
Mean 0.003572
Std Dev 0.4974



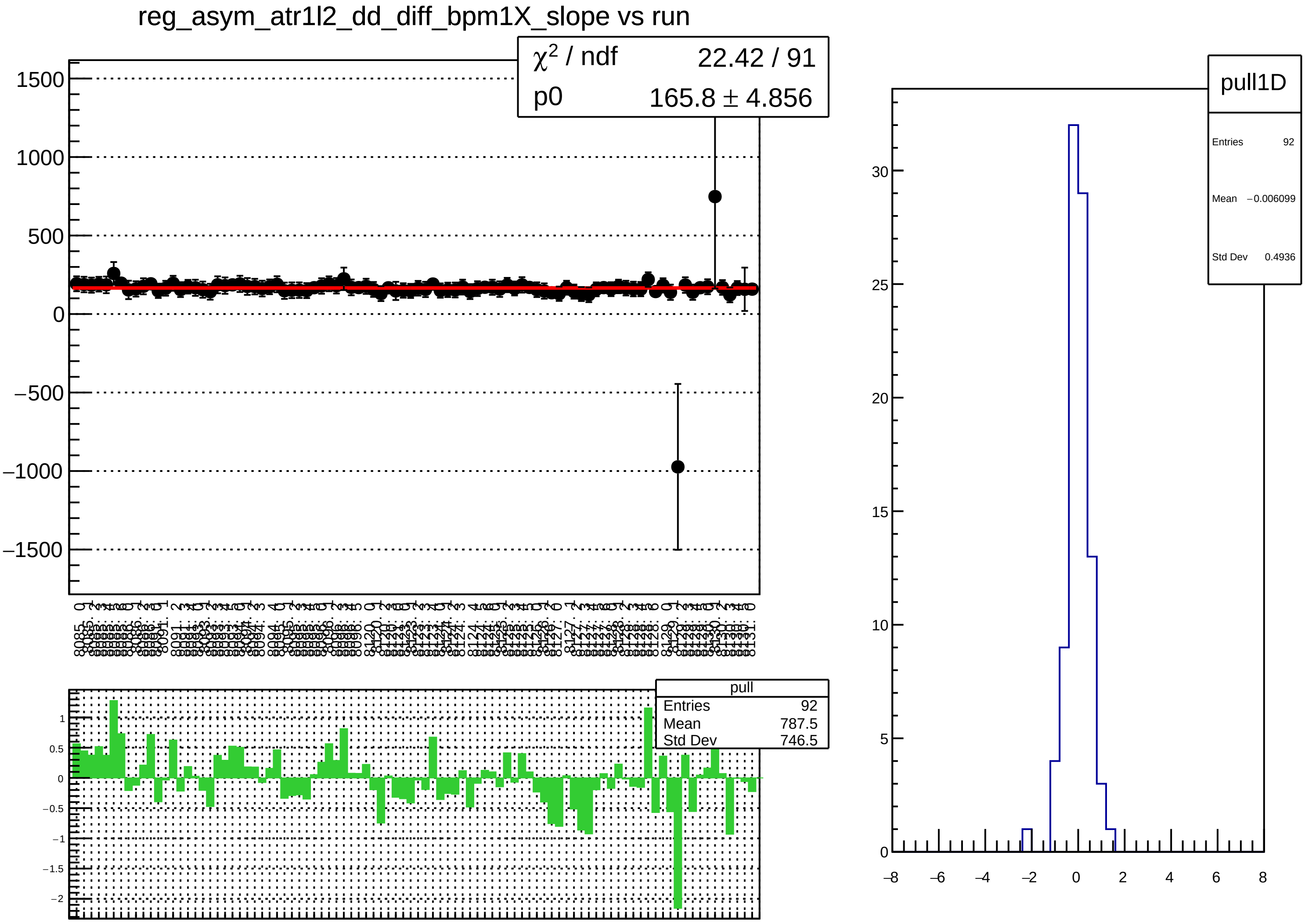
reg_asym_atr1l2_avg_diff_bpm4eX_slope vs run
χ2 / ndf 28.42 / 91
p0 114.3 ± 4.285
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −431.8
Std Dev 478.3
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 92
Mean 0.01643
Std Dev 0.5555
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



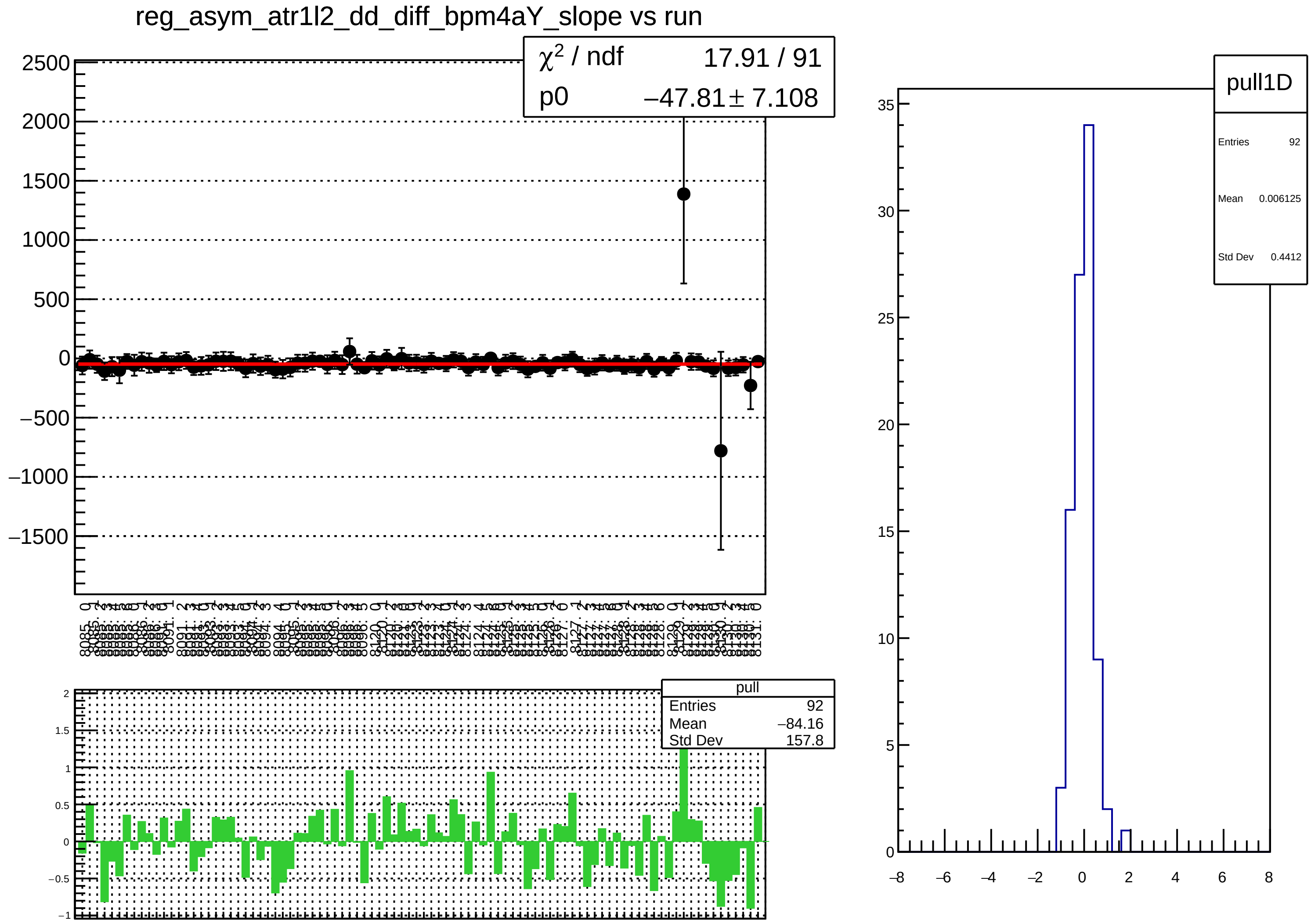
reg_asym_atr1l2_avg_diff_bpm4eY_slope vs run
χ2 / ndf 20.97 / 91
p0 13.98 ± 7.037
pull
Entries 92
Mean −2008
Std Dev 2036
pull1D
Entries 92
Mean −0.0004643
Std Dev 0.4774

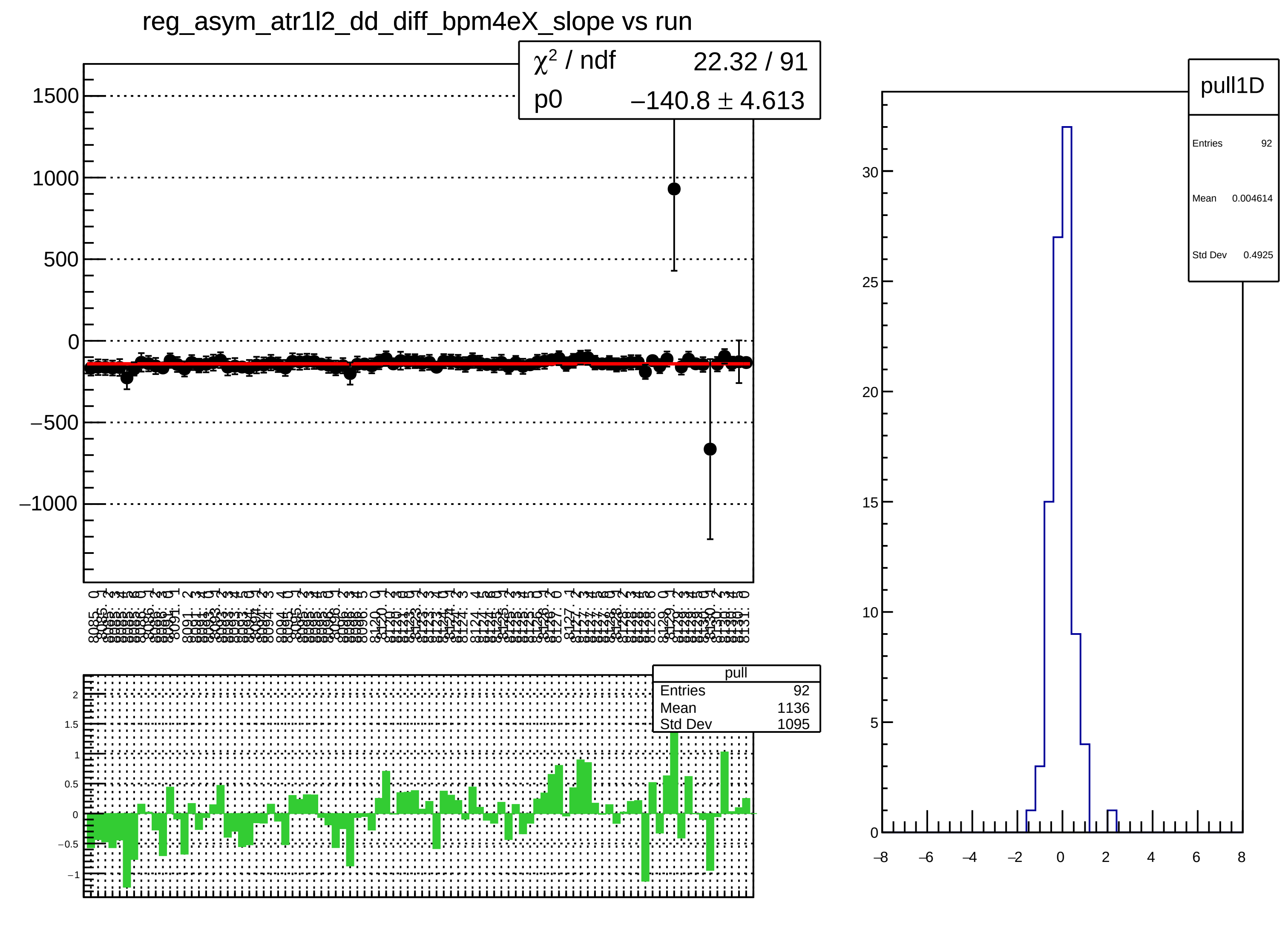


reg_asym_atr1l2_avg_diff_bpm12X_slope vs run
χ2 / ndf 491.5 / 91
p0 −119.5 ± 0.268
pull
Entries 92
Mean −138.4
Std Dev 177.3
pull1D
Entries 92
Mean −0.2675
Std Dev 2.296

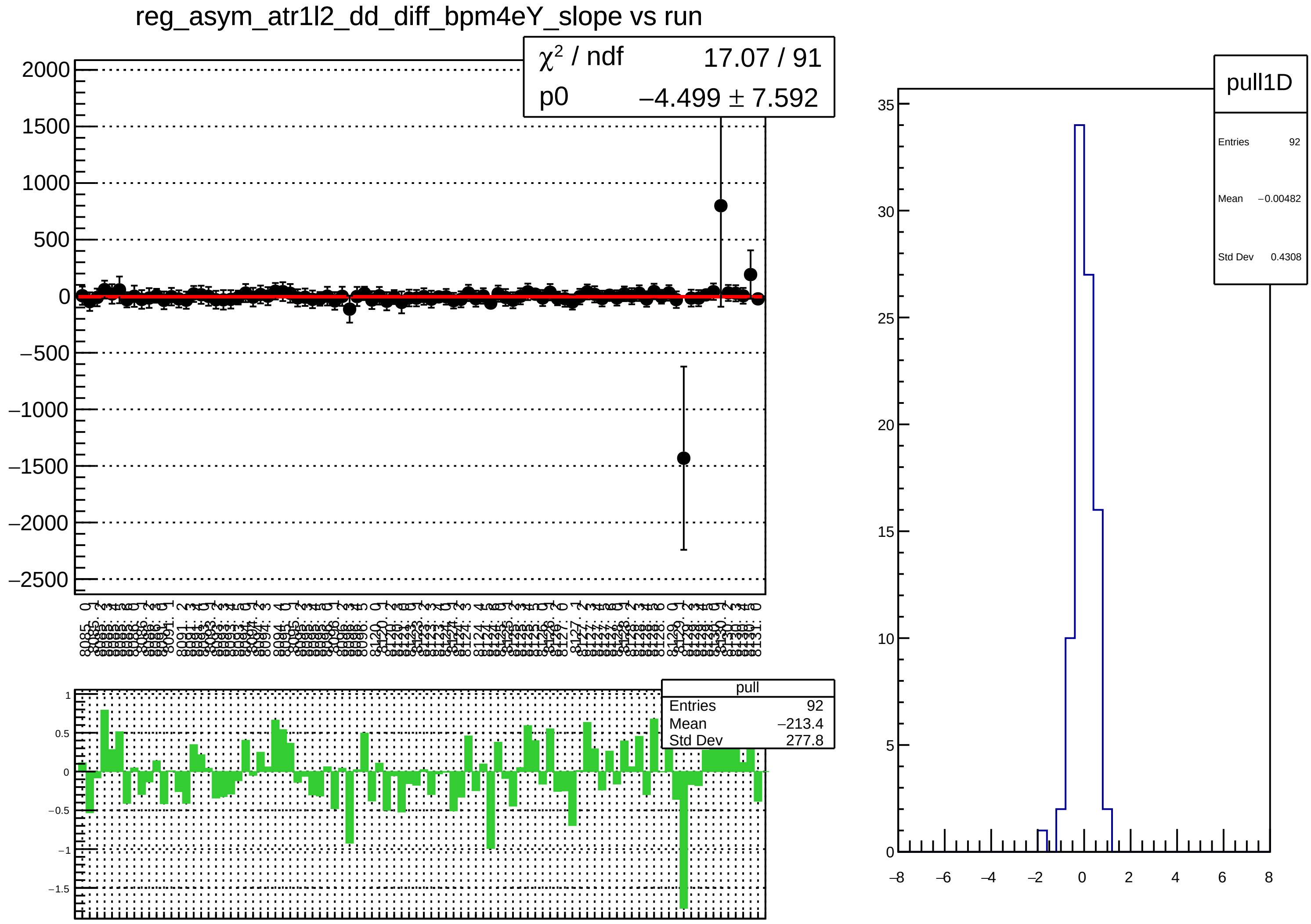


reg_asym_atr1l2_dd_diff_bpm1X_slope vs run
χ^2 / ndf 22.42 / 91
p0 165.8 ± 4.856
pull
Entries 92
Mean 787.5
Std Dev 746.5
pull1D
Entries 92
Mean −0.006099
Std Dev 0.4936

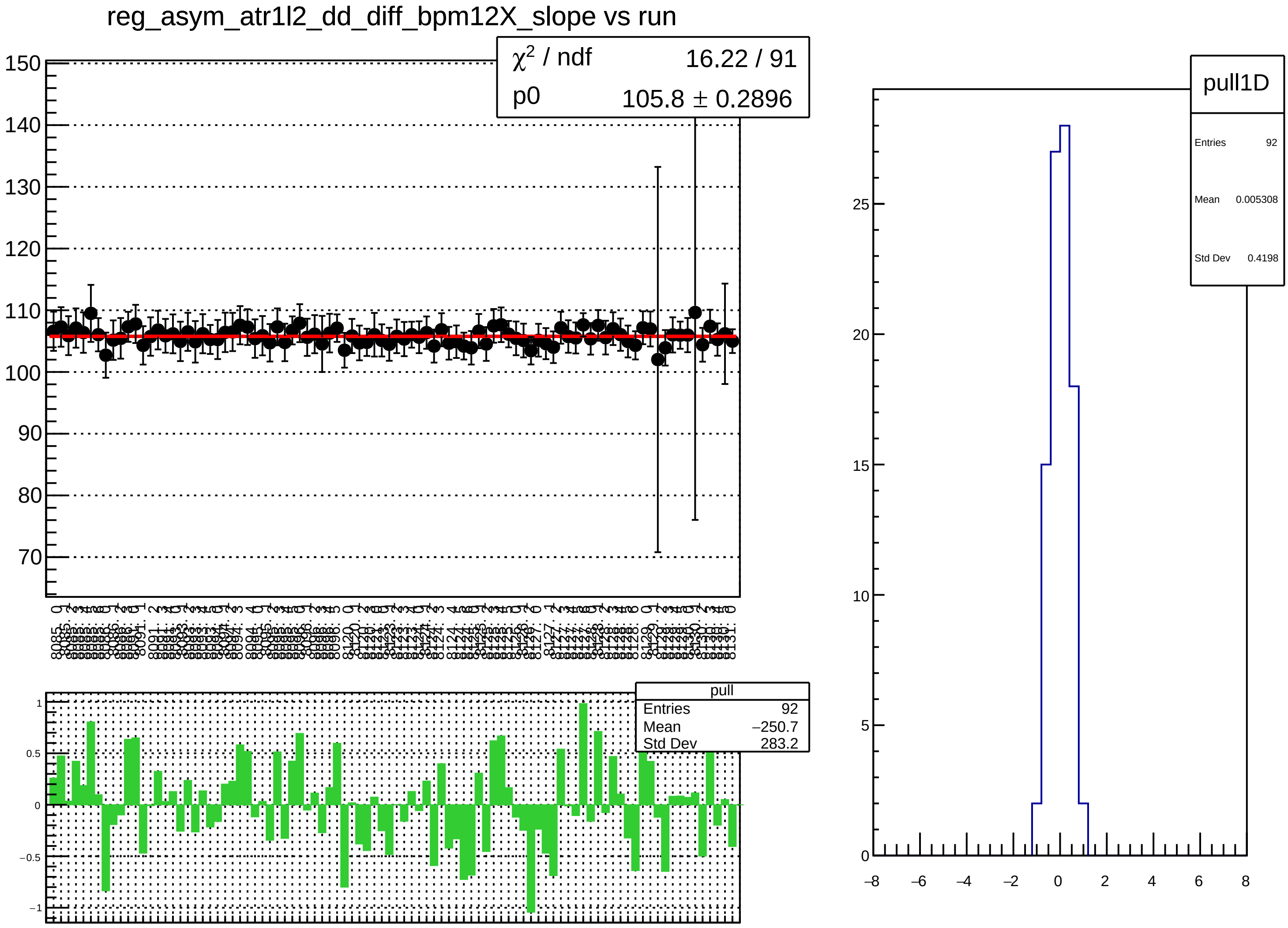

reg_asym_atr1l2_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 17.91 / 91
p0 −47.81 ± 7.108
pull
Entries 92
Mean −84.16
Std Dev 157.8
pull1D
Entries 92
Mean 0.006125
Std Dev 0.4412



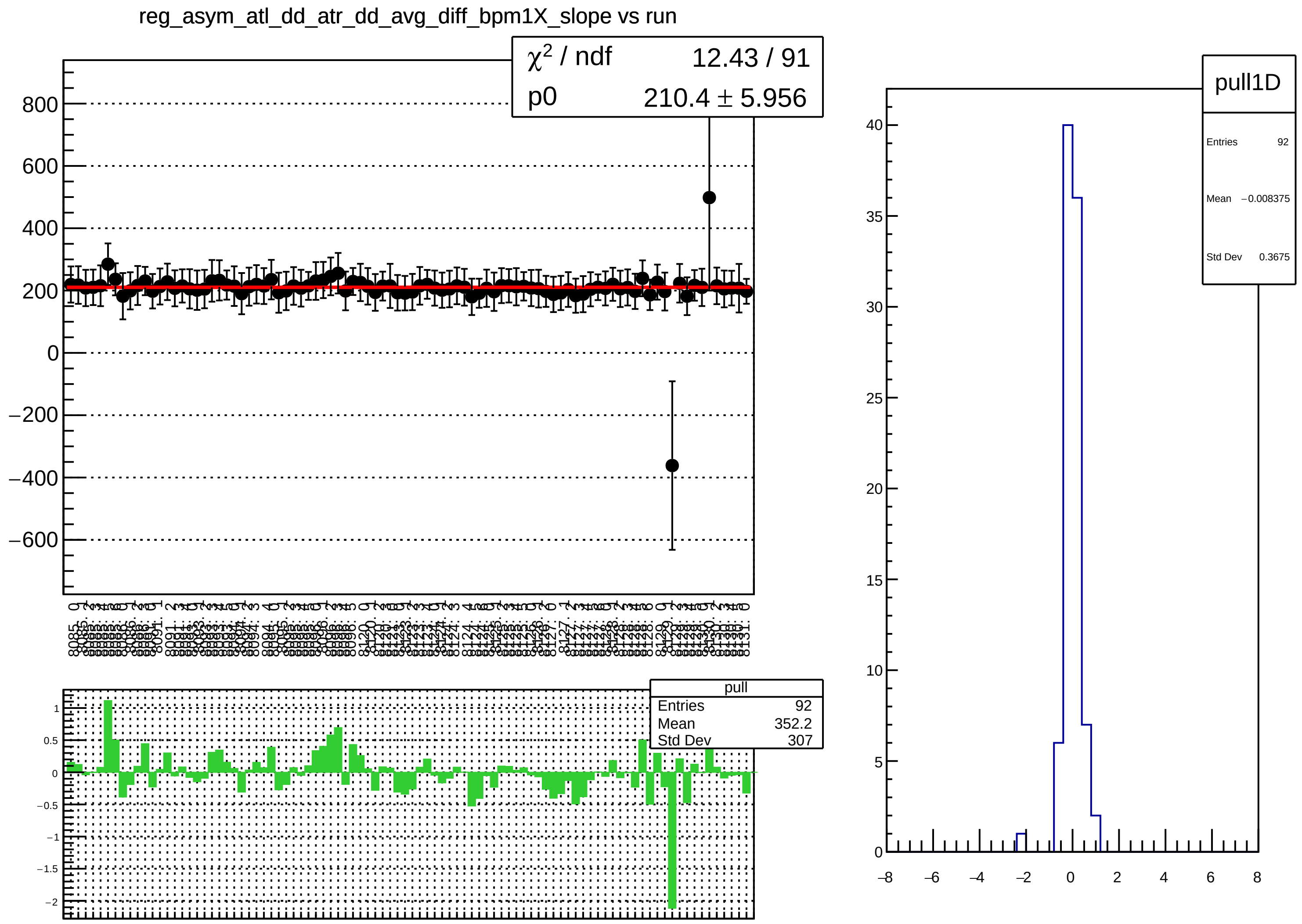
reg_asym_atr1l2_dd_diff_bpm4eX_slope vs run
χ^2 / ndf 22.32 / 91
p0 −140.8 ± 4.613
pull
Entries 92
Mean 1136
Std Dev 1095
pull1D
Entries 92
Mean 0.004614
Std Dev 0.4925



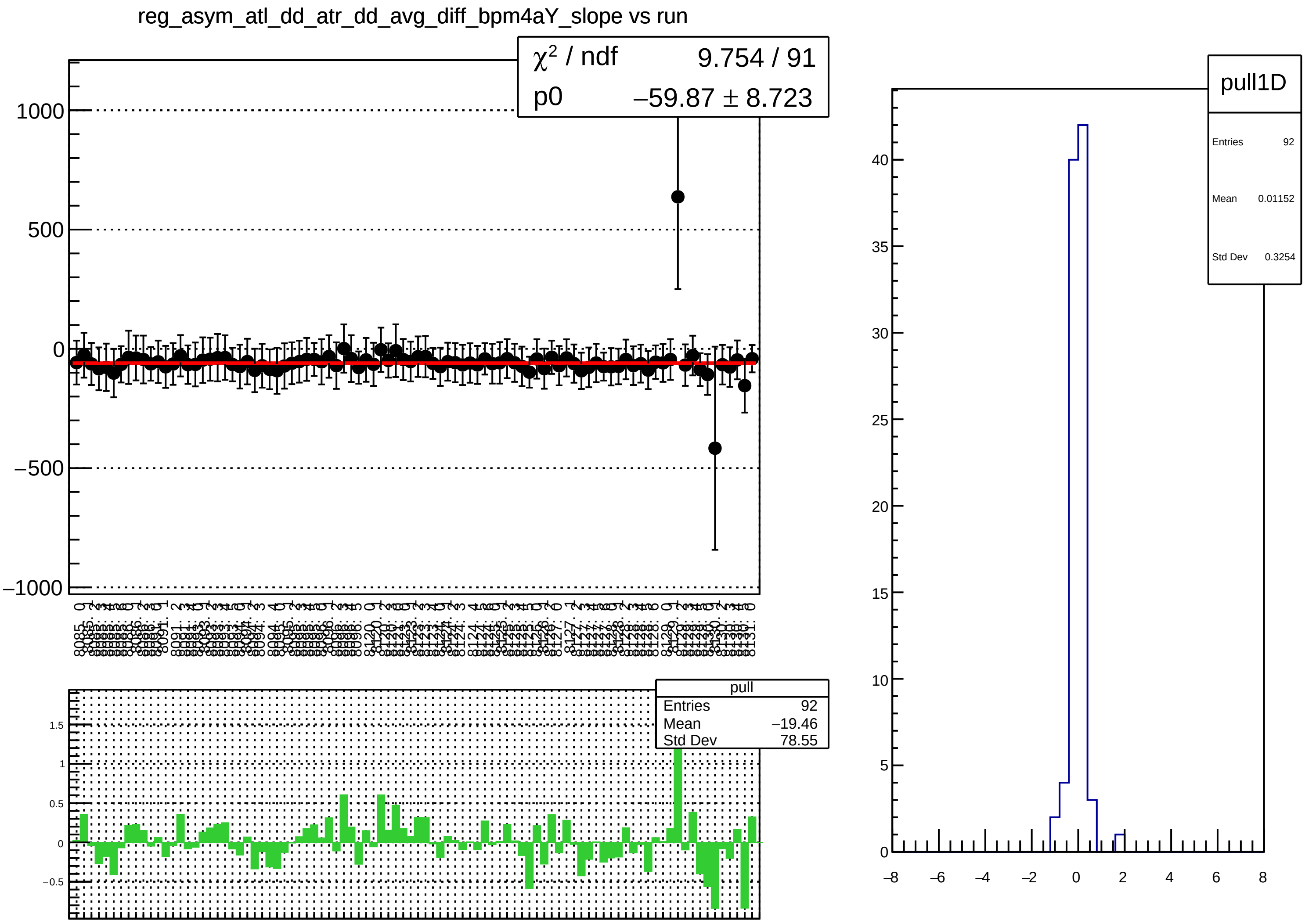
reg_asym_atr1l2_dd_diff_bpm4eY_slope vs run
χ2 / ndf 17.07 / 91
p0 −4.499 ± 7.592
pull
Entries 92
Mean −213.4
Std Dev 277.8
pull1D
Entries 92
Mean −0.00482
Std Dev 0.4308



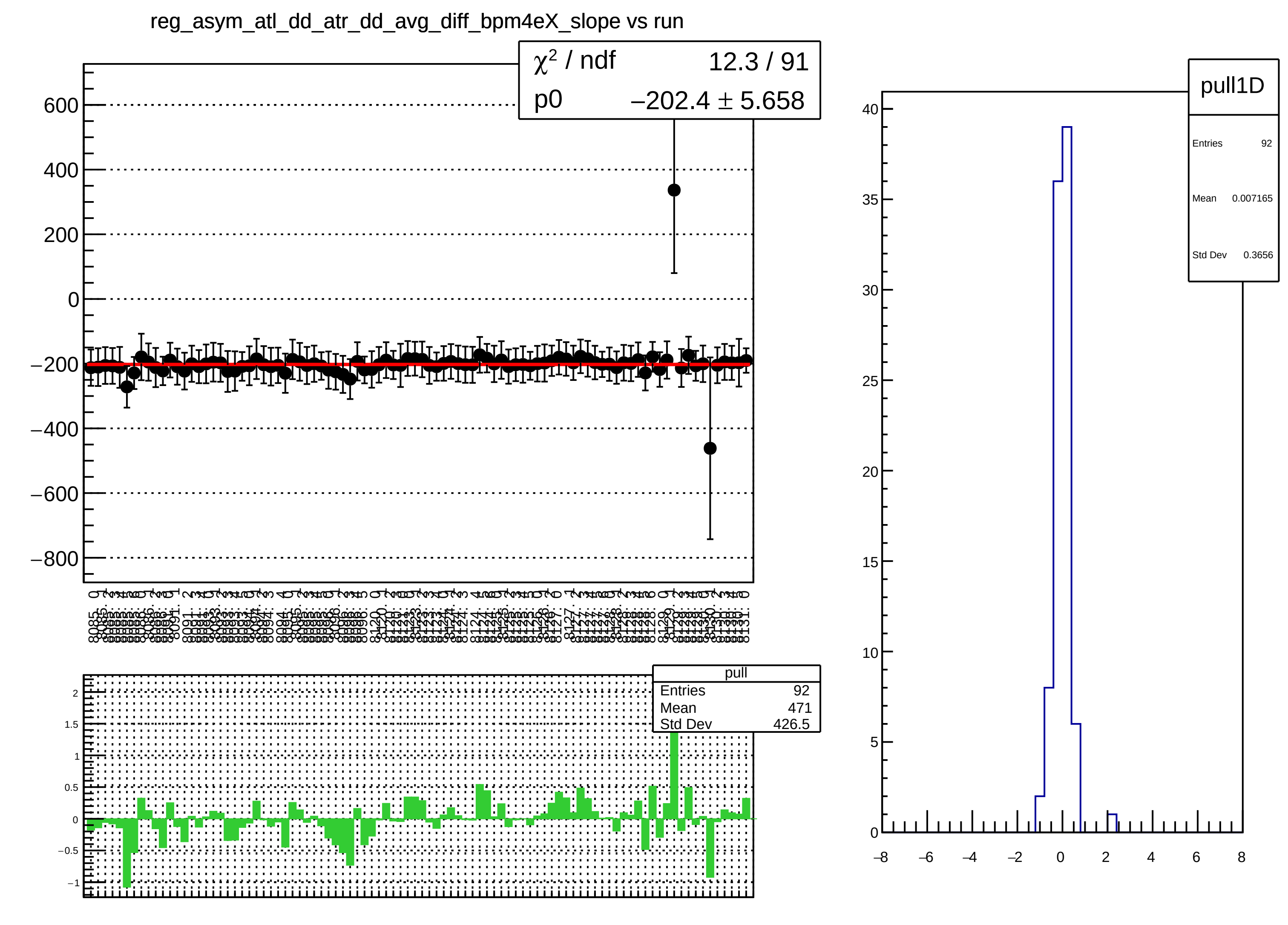
reg_asym_atr1l2_dd_diff_bpm12X_slope vs run
χ^2 / ndf 16.22 / 91
p0 105.8 ± 0.2896
pull
Entries 92
Mean −250.7
Std Dev 283.2
pull1D
Entries 92
Mean 0.005308
Std Dev 0.4198



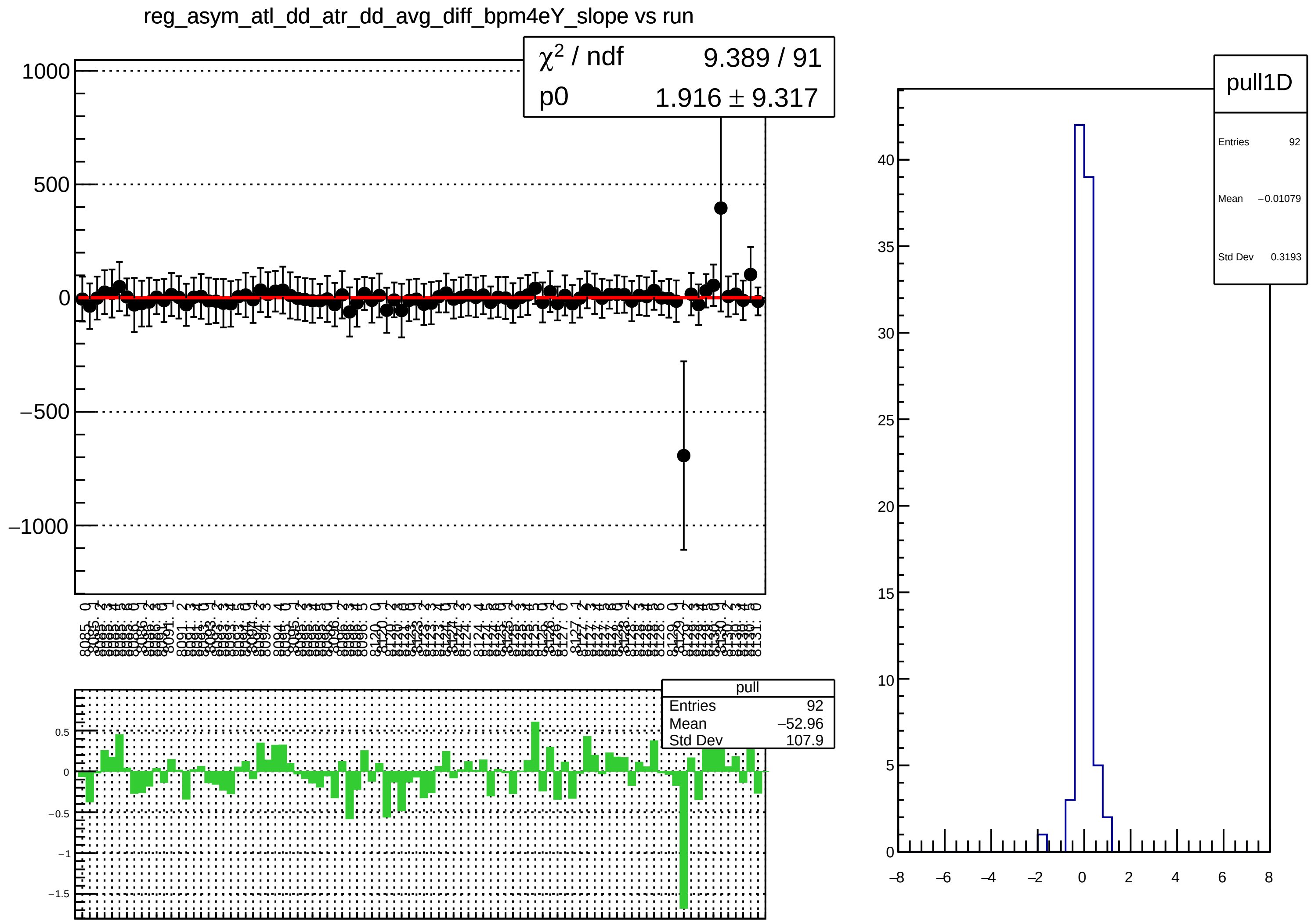
reg_asym_atl_dd_atr_dd_avg_diff_bpm1X_slope vs run
χ^2 / ndf 12.43 / 91
p0 210.4 ± 5.956
pull
Entries 92
Mean 352.2
Std Dev 307
pull1D
Entries 92
Mean −0.008375
Std Dev 0.3675



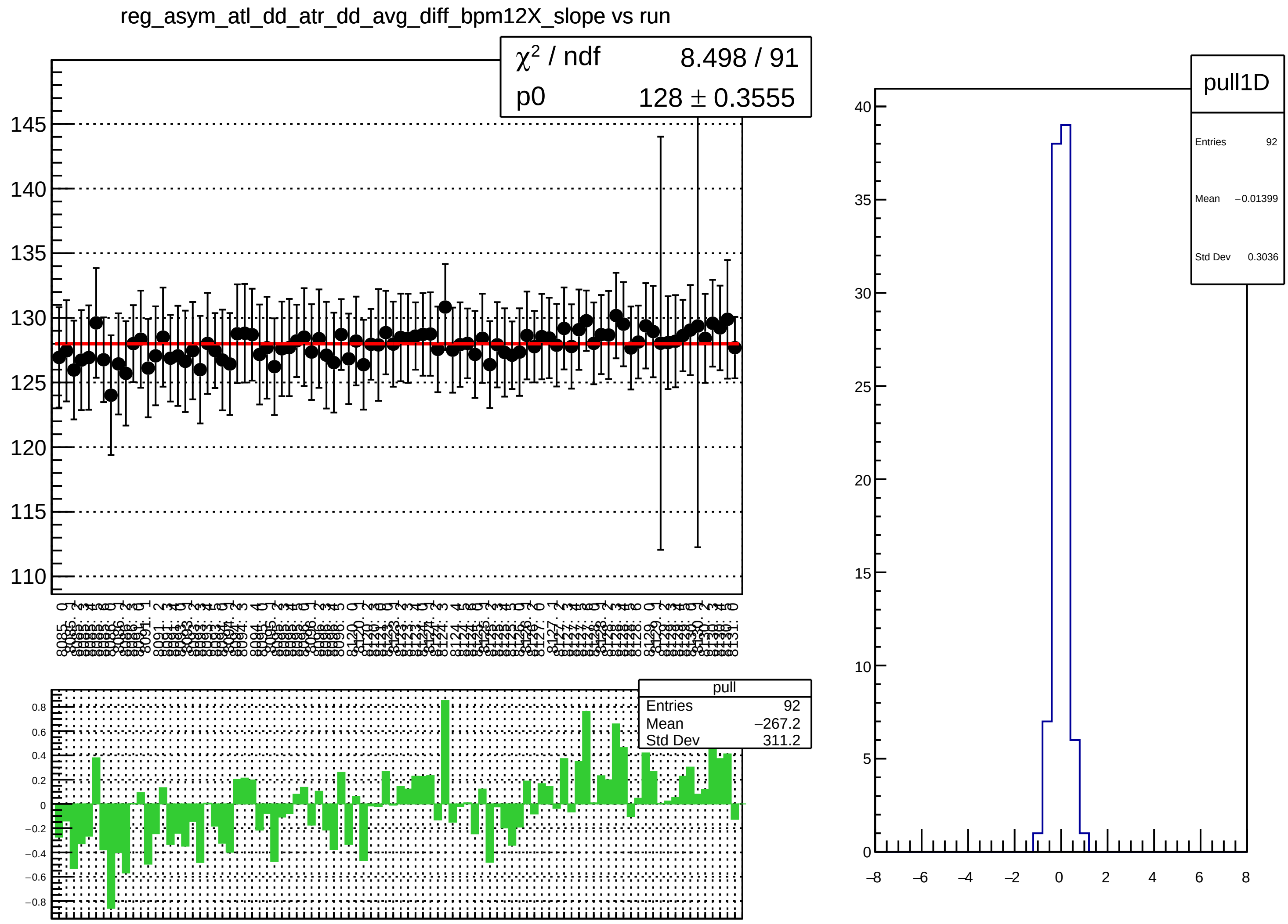
reg_asym_atl_dd_atr_dd_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 9.754 / 91
p0 −59.87 ± 8.723
pull
Entries 92
Mean −19.46
Std Dev 78.55
pull1D
Entries 92
Mean 0.01152
Std Dev 0.3254



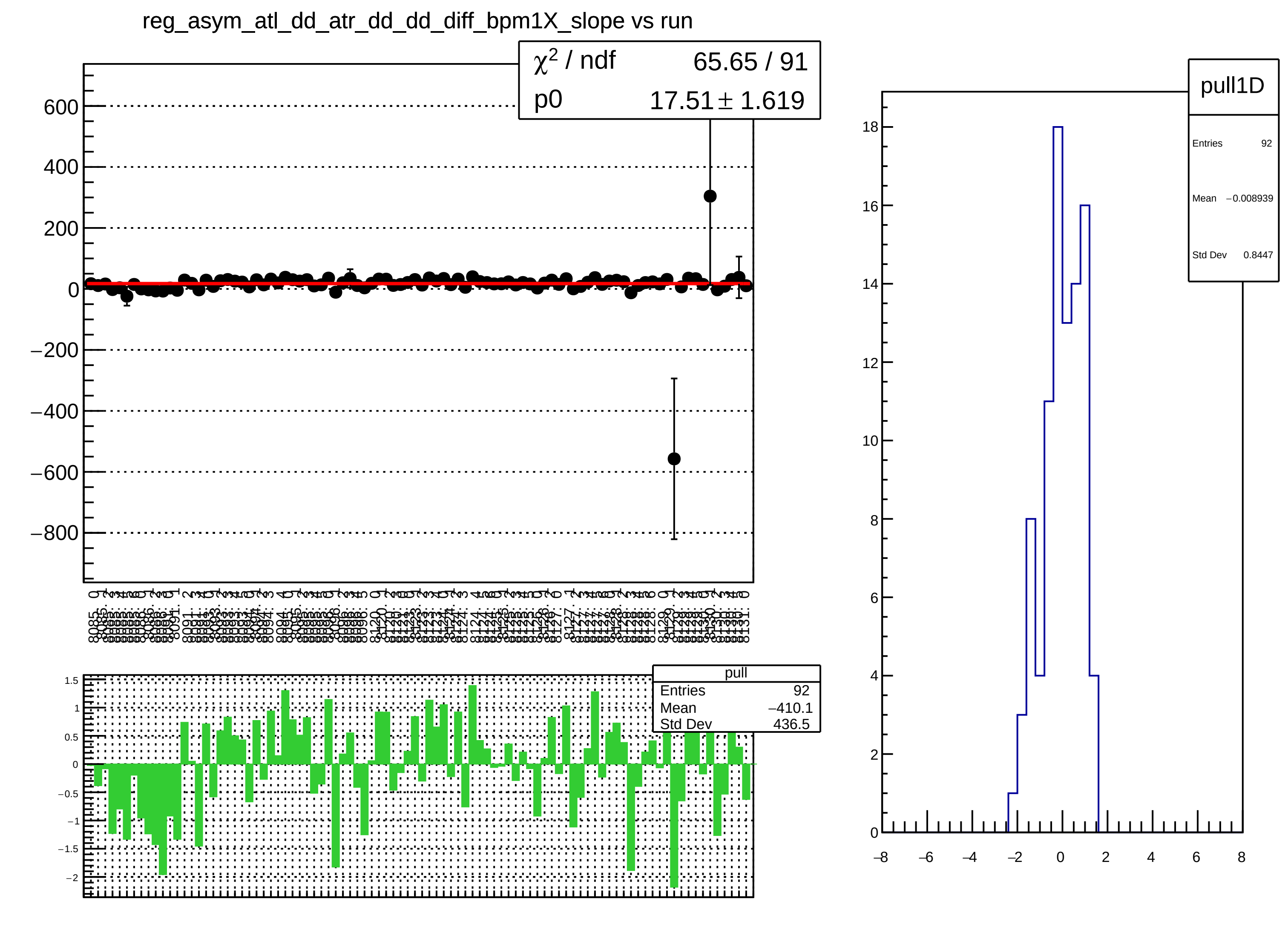
reg_asym_atl_dd_atr_dd_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 12.3 / 91
p0 −202.4 ± 5.658
pull
Entries 92
Mean 471
Std Dev 426.5
pull1D
Entries 92
Mean 0.007165
Std Dev 0.3656



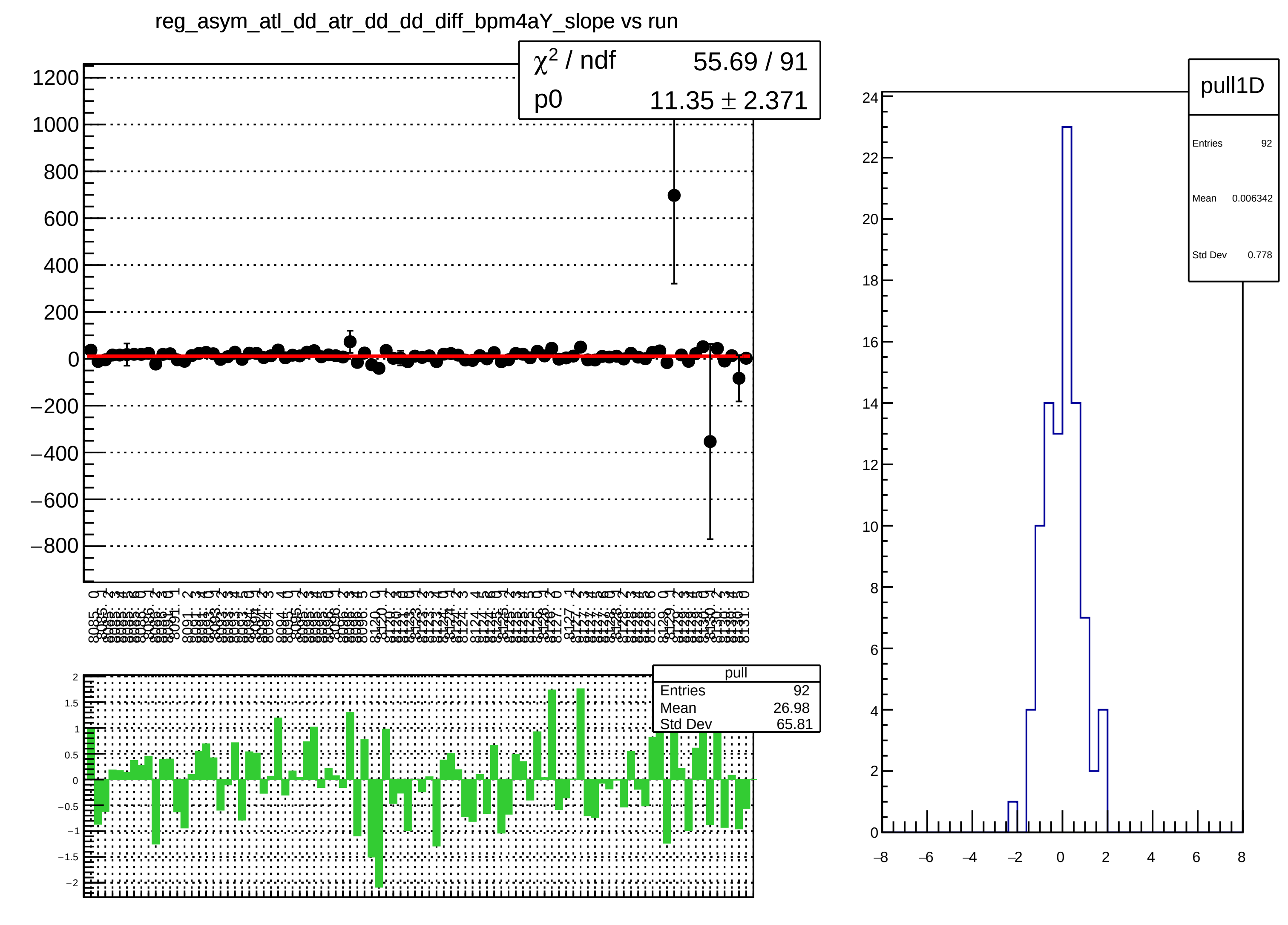
reg_asym_atl_dd_atr_dd_avg_diff_bpm4eY_slope vs run
χ^2 / ndf 9.389 / 91
p0 1.916 ± 9.317
1000
500
0
−500
−1000
pull
Entries 92
Mean −52.96
Std Dev 107.9
0.5
0
-0.5
−1
-1.5
pull1D
Entries 92
Mean −0.01079
Std Dev 0.3193
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8



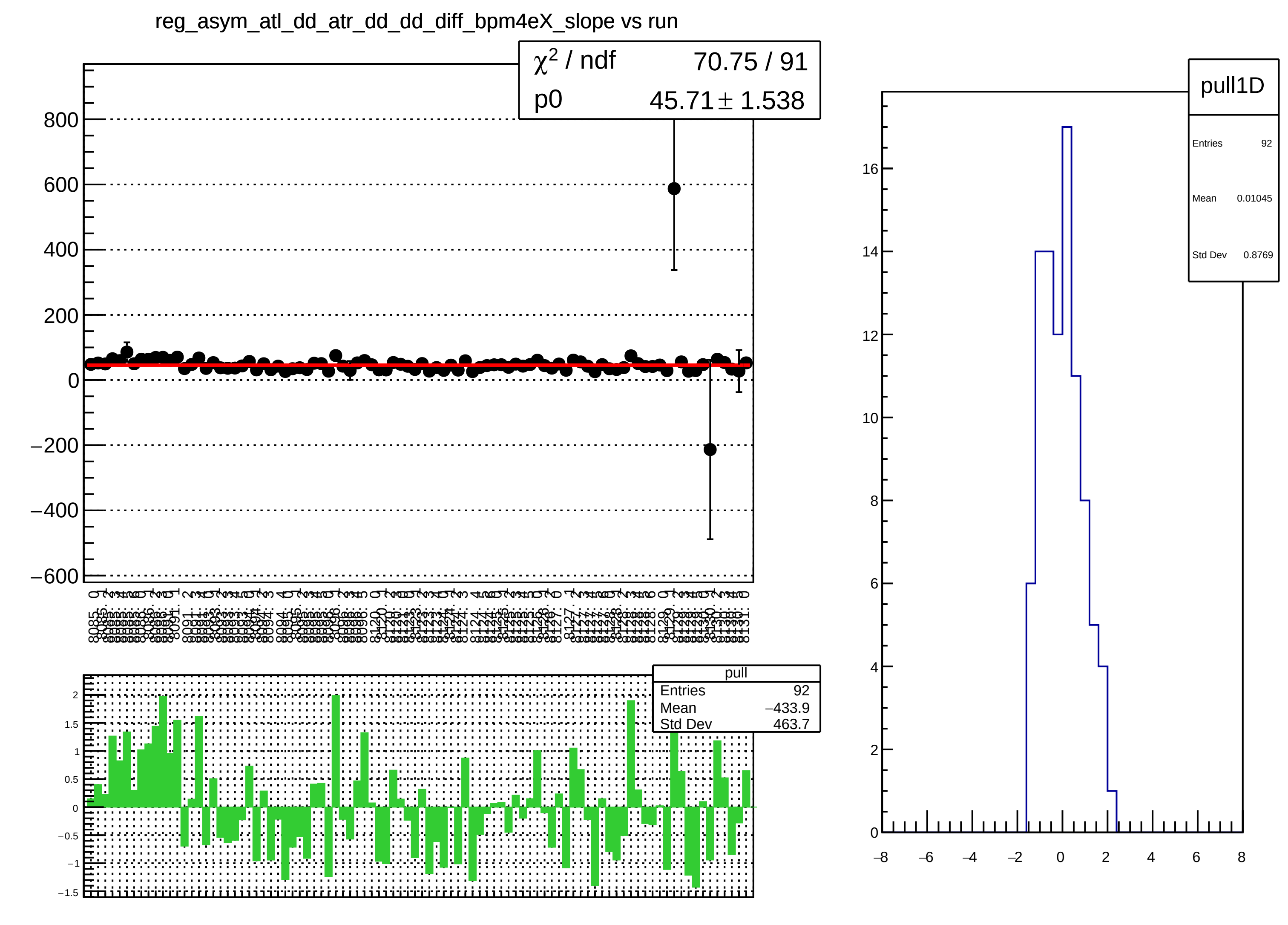
reg_asym_atl_dd_atr_dd_avg_diff_bpm12X_slope vs run
χ^2 / ndf 8.498 / 91
p0 128 ± 0.3555
pull
Entries 92
Mean −267.2
Std Dev 311.2
pull1D
Entries 92
Mean −0.01399
Std Dev 0.3036

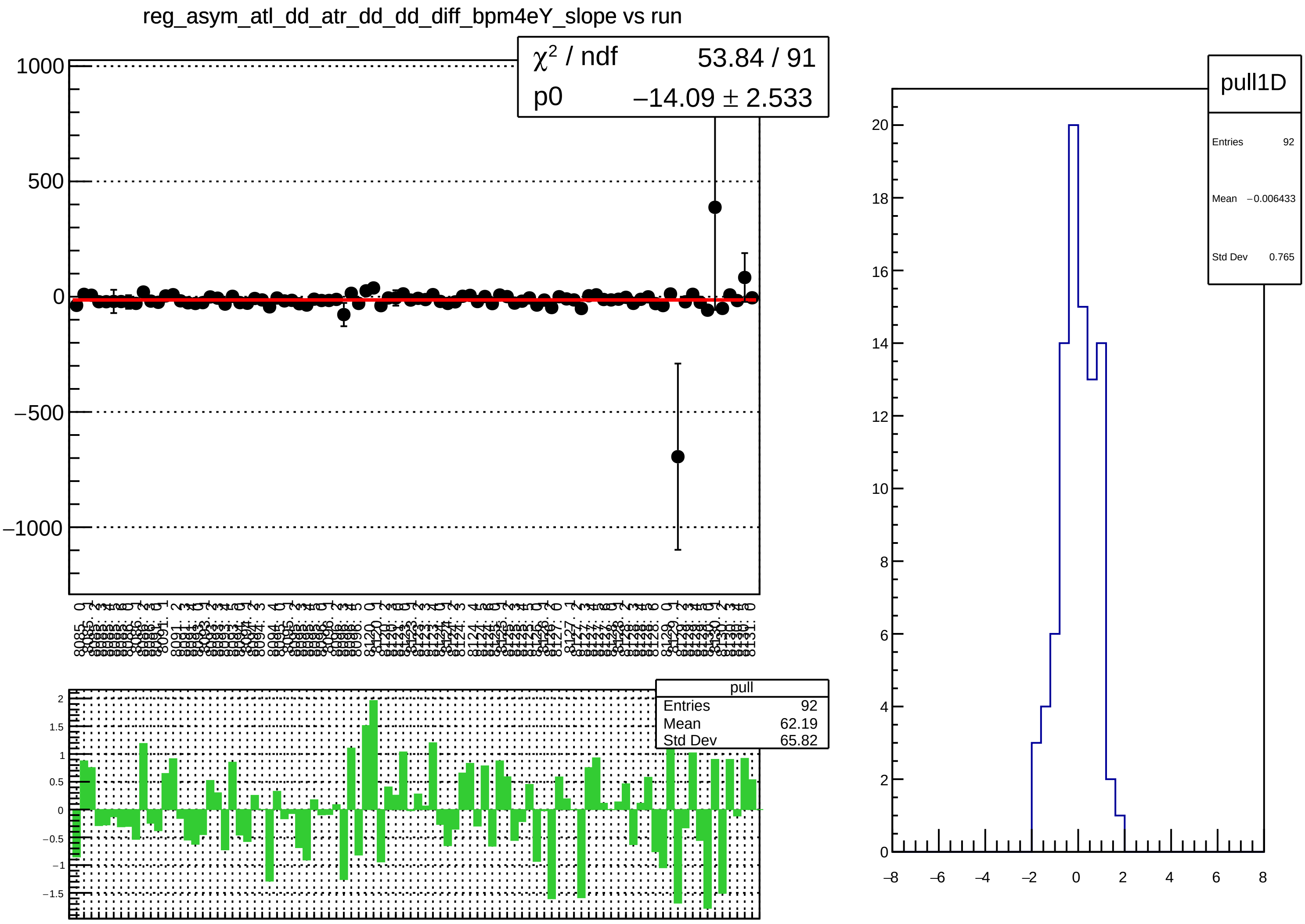


reg_asym_atl_dd_atr_dd_dd_diff_bpm1X_slope vs run
χ^2 / ndf 65.65 / 91
p0 17.51 ± 1.619
pull
Entries 92
Mean −410.1
Std Dev 436.5
pull1D
Entries 92
Mean −0.008939
Std Dev 0.8447

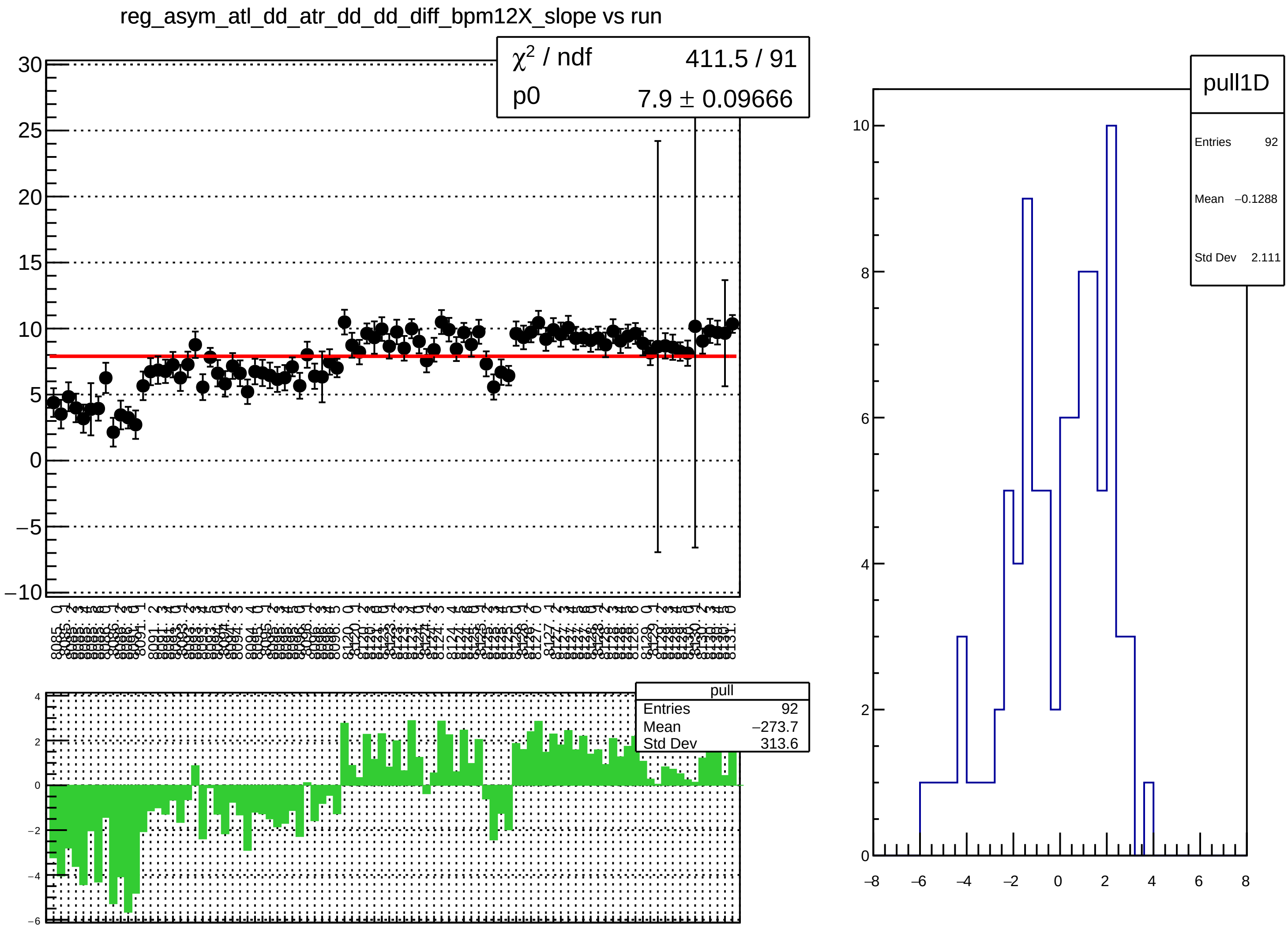


reg_asym_atl_dd_atr_dd_dd_diff_bpm4aY_slope vs run
χ2 / ndf 55.69 / 91
p0 11.35 ± 2.371
pull1D
Entries 92
Mean 0.006342
Std Dev 0.778
pull
Entries 92
Mean 26.98
Std Dev 65.81

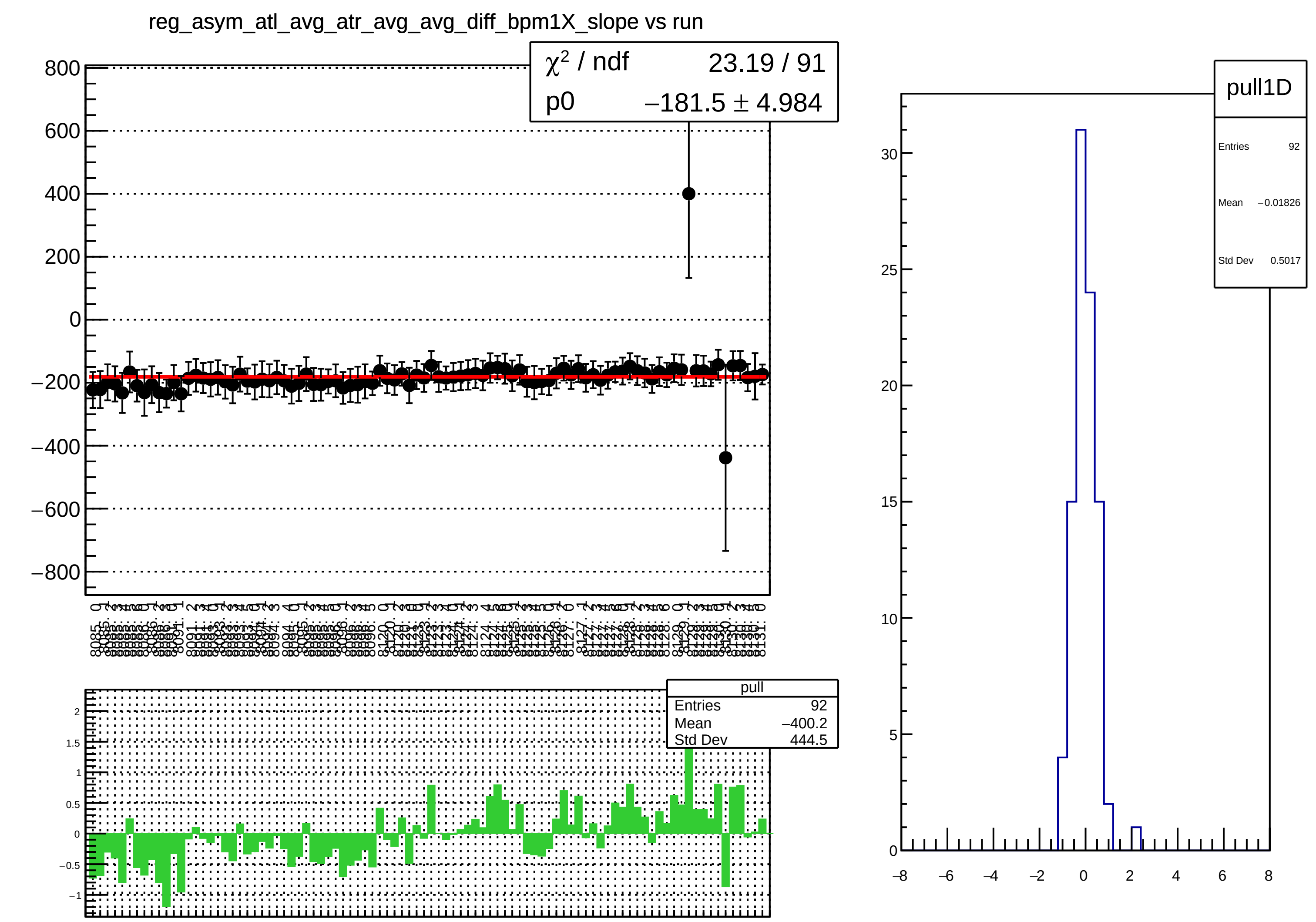

reg_asym_atl_dd_atr_dd_dd_diff_bpm4eX_slope vs run
χ2 / ndf 70.75 / 91
p0 45.71 ± 1.538
pull
Entries 92
Mean −433.9
Std Dev 463.7
pull1D
Entries 92
Mean 0.01045
Std Dev 0.8769



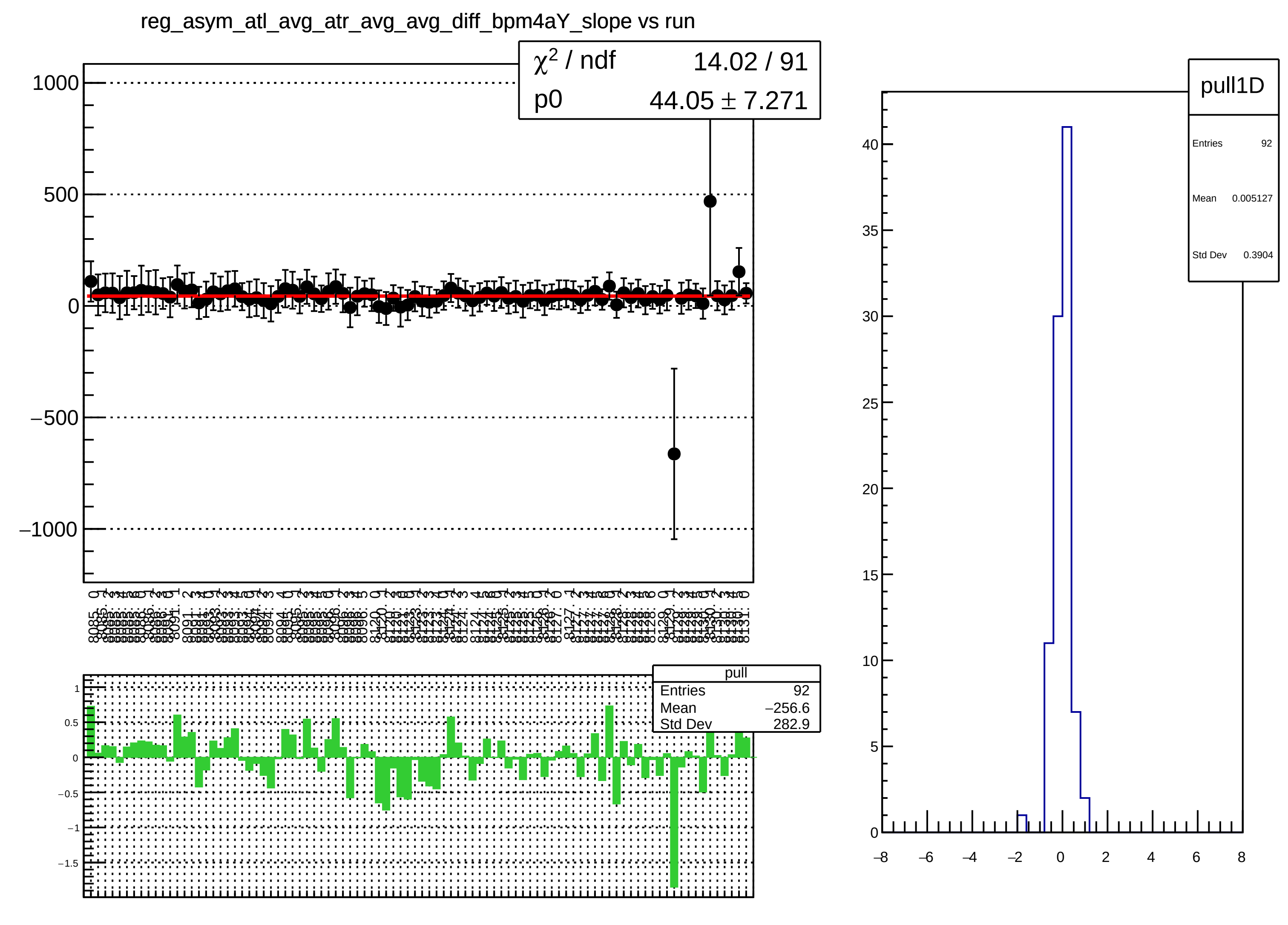
reg_asym_atl_dd_atr_dd_dd_diff_bpm4eY_slope vs run
χ^2 / ndf 53.84 / 91
p0 −14.09 ± 2.533
pull
Entries 92
Mean 62.19
Std Dev 65.82
pull1D
Entries 92
Mean −0.006433
Std Dev 0.765



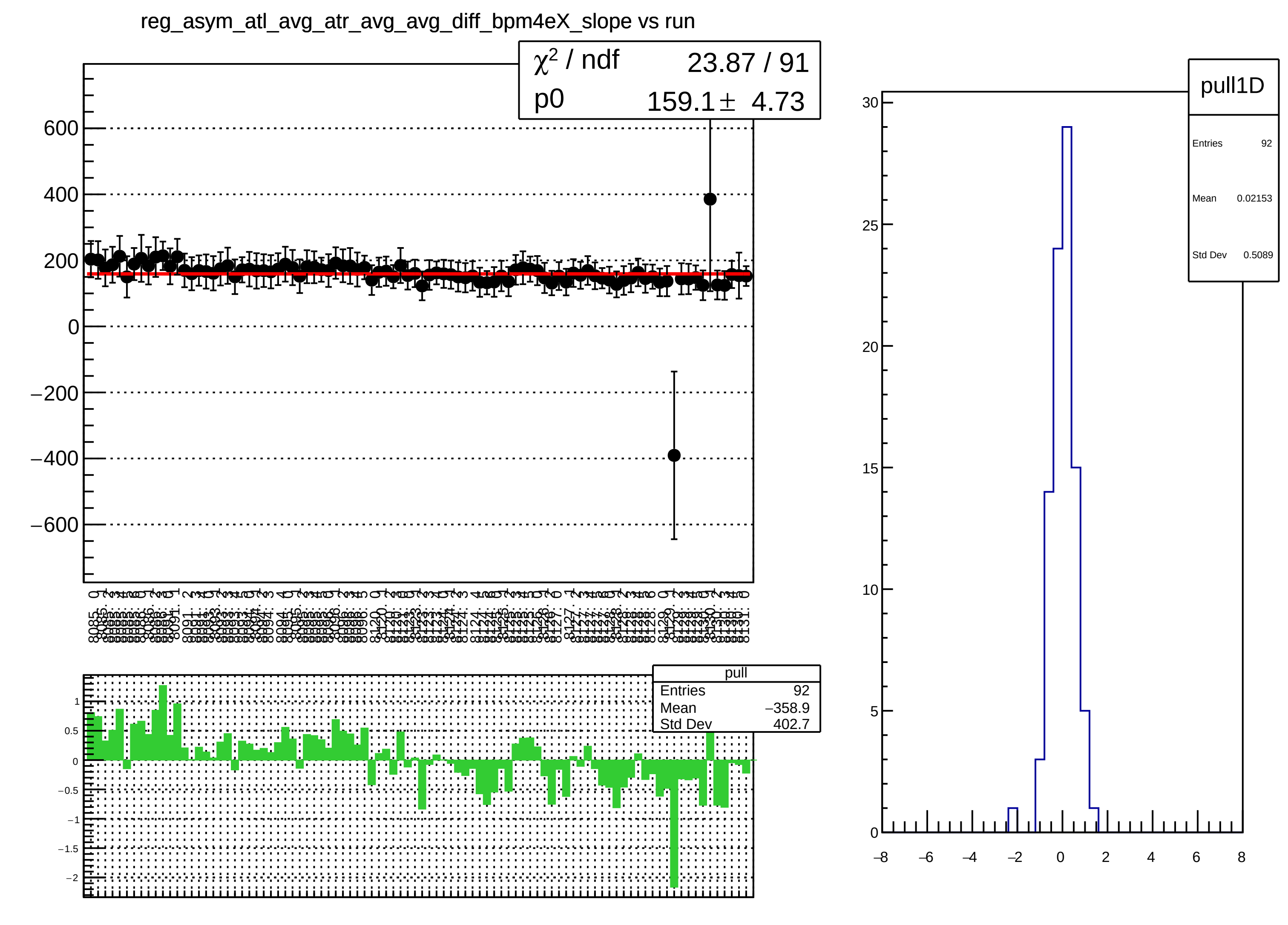
reg_asym_atl_dd_atr_dd_dd_diff_bpm12X_slope vs run
χ^2 / ndf 411.5 / 91
p0 7.9 ± 0.09666
pull
Entries 92
Mean −273.7
Std Dev 313.6
pull1D
Entries 92
Mean −0.1288
Std Dev 2.111



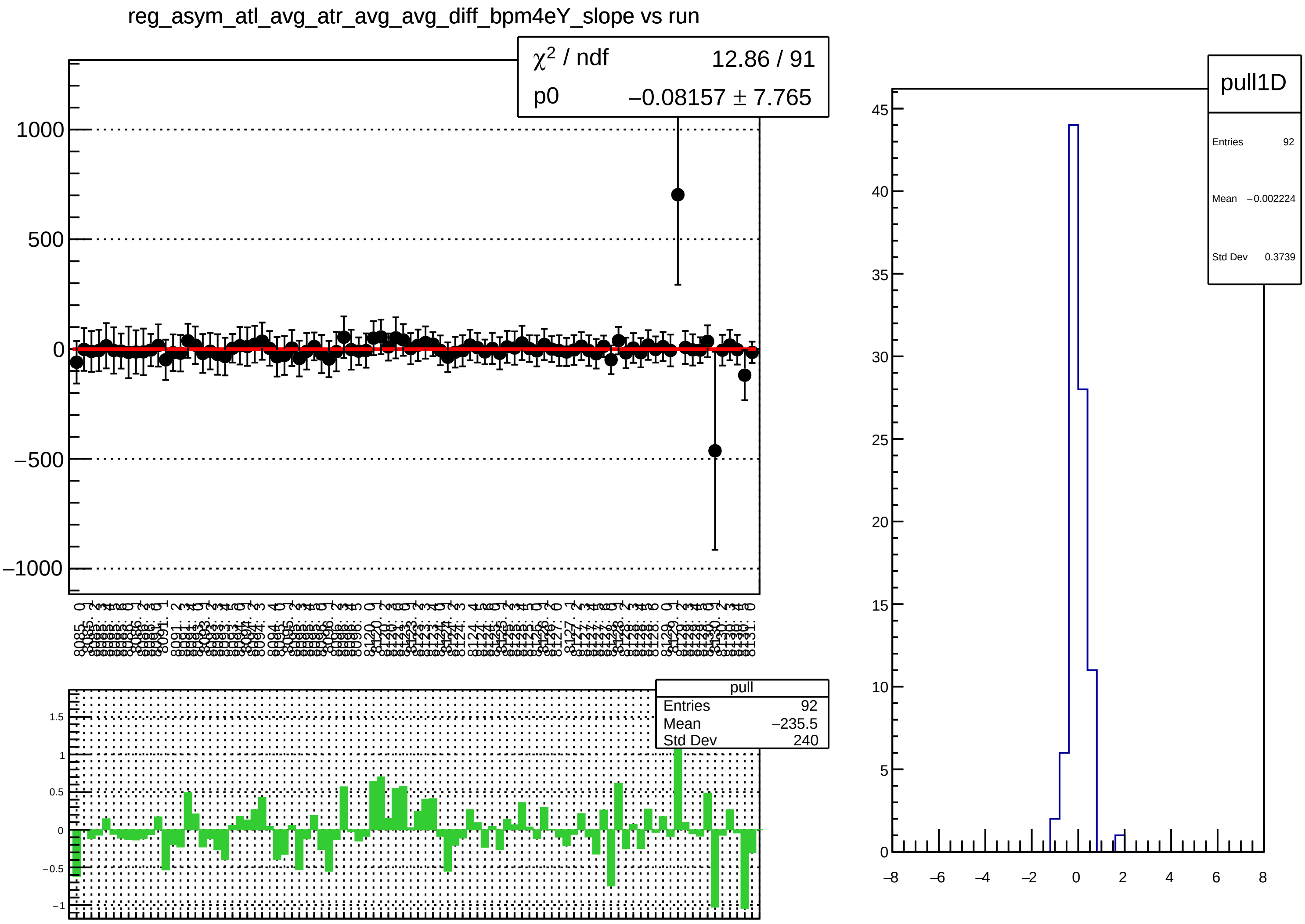
reg_asym_atl_avg_atr_avg_avg_diff_bpm1X_slope vs run
χ^2 / ndf 23.19 / 91
p0 −181.5 ± 4.984
pull
Entries 92
Mean −400.2
Std Dev 444.5
pull1D
Entries 92
Mean −0.01826
Std Dev 0.5017

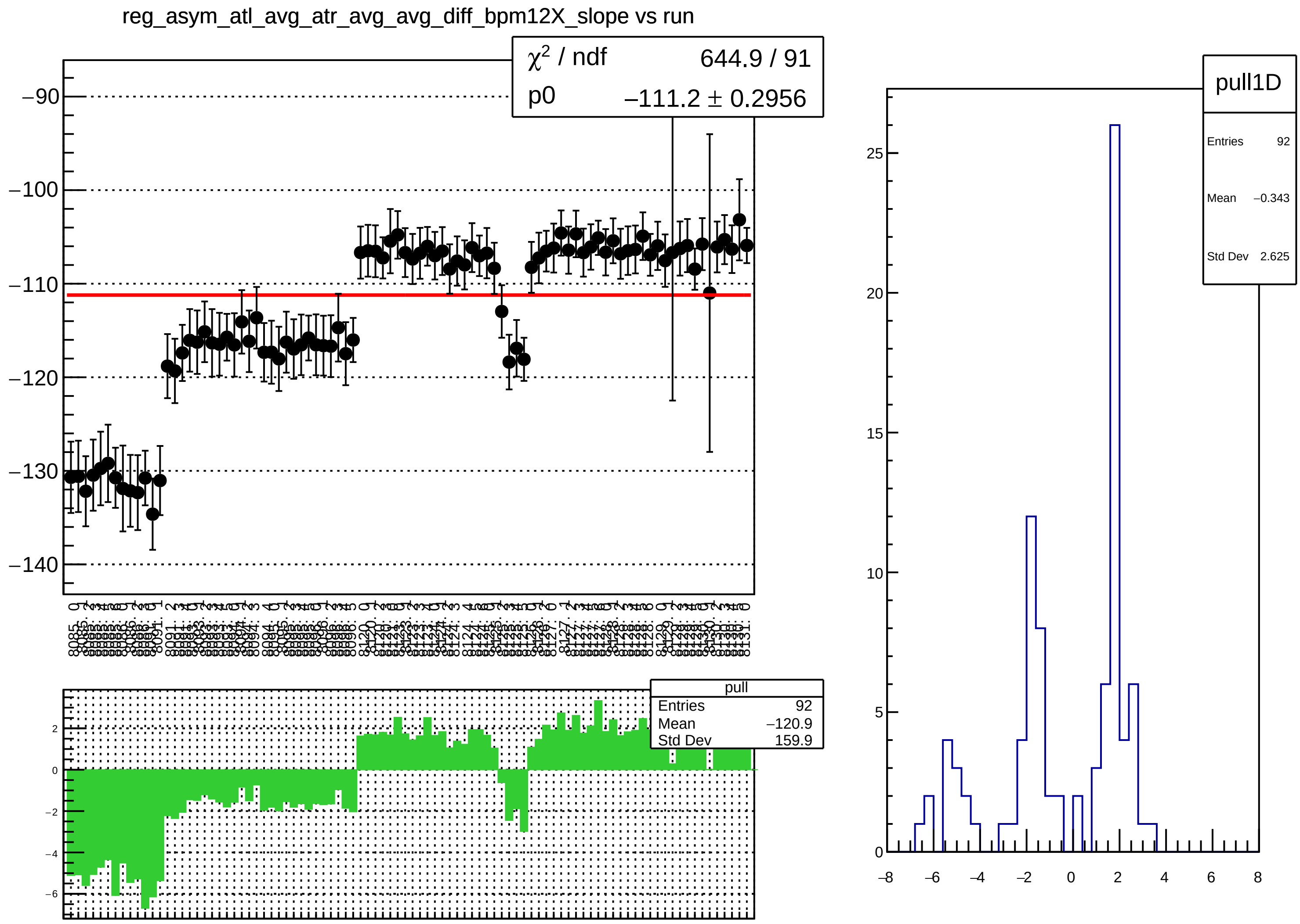


reg_asym_atl_avg_atr_avg_avg_diff_bpm4aY_slope vs run
χ^2 / ndf 14.02 / 91
p0 44.05 ± 7.271
pull
Entries 92
Mean −256.6
Std Dev 282.9
pull1D
Entries 92
Mean 0.005127
Std Dev 0.3904

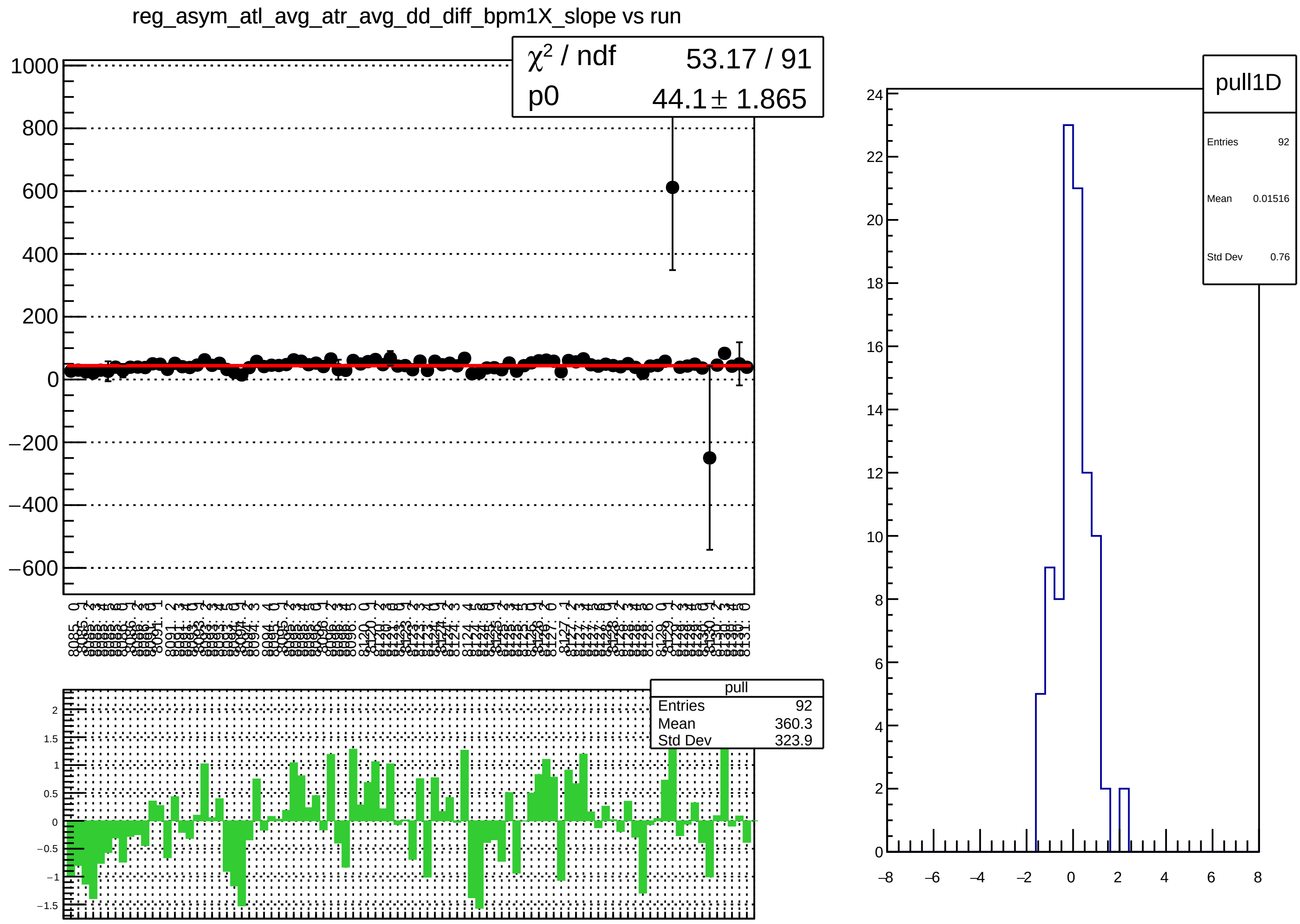


reg_asym_atl_avg_atr_avg_avg_diff_bpm4eX_slope vs run
χ^2 / ndf 23.87 / 91
p0 159.1 ± 4.73
pull
Entries 92
Mean −358.9
Std Dev 402.7
pull1D
Entries 92
Mean 0.02153
Std Dev 0.5089

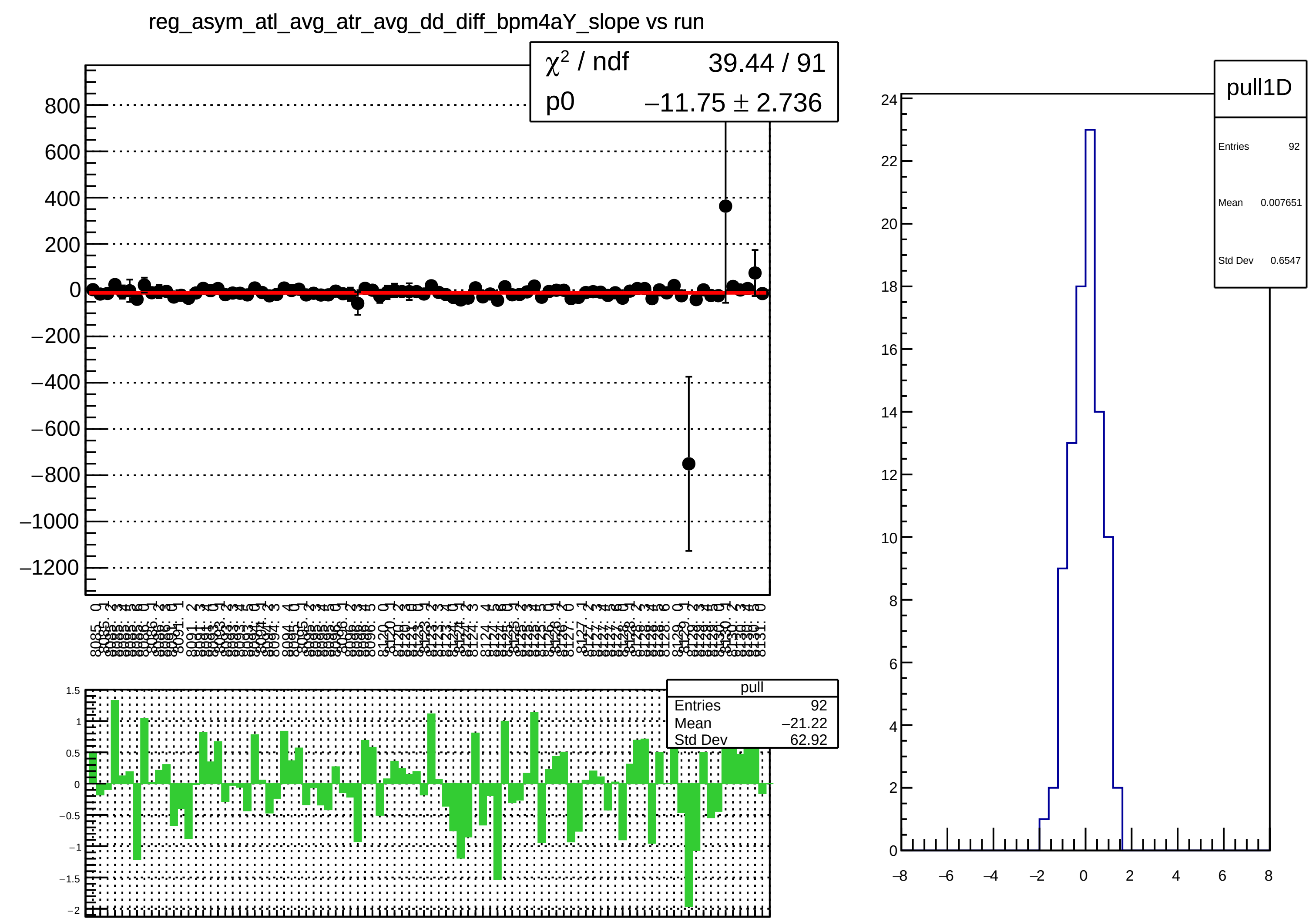

reg_asym_atl_avg_atr_avg_avg_diff_bpm4eY_slope vs run
χ2 / ndf 12.86 / 91
p0 −0.08157 ± 7.765
1000
500
0
−500
−1000
pull
Entries 92
Mean −235.5
Std Dev 240
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.002224
Std Dev 0.3739
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

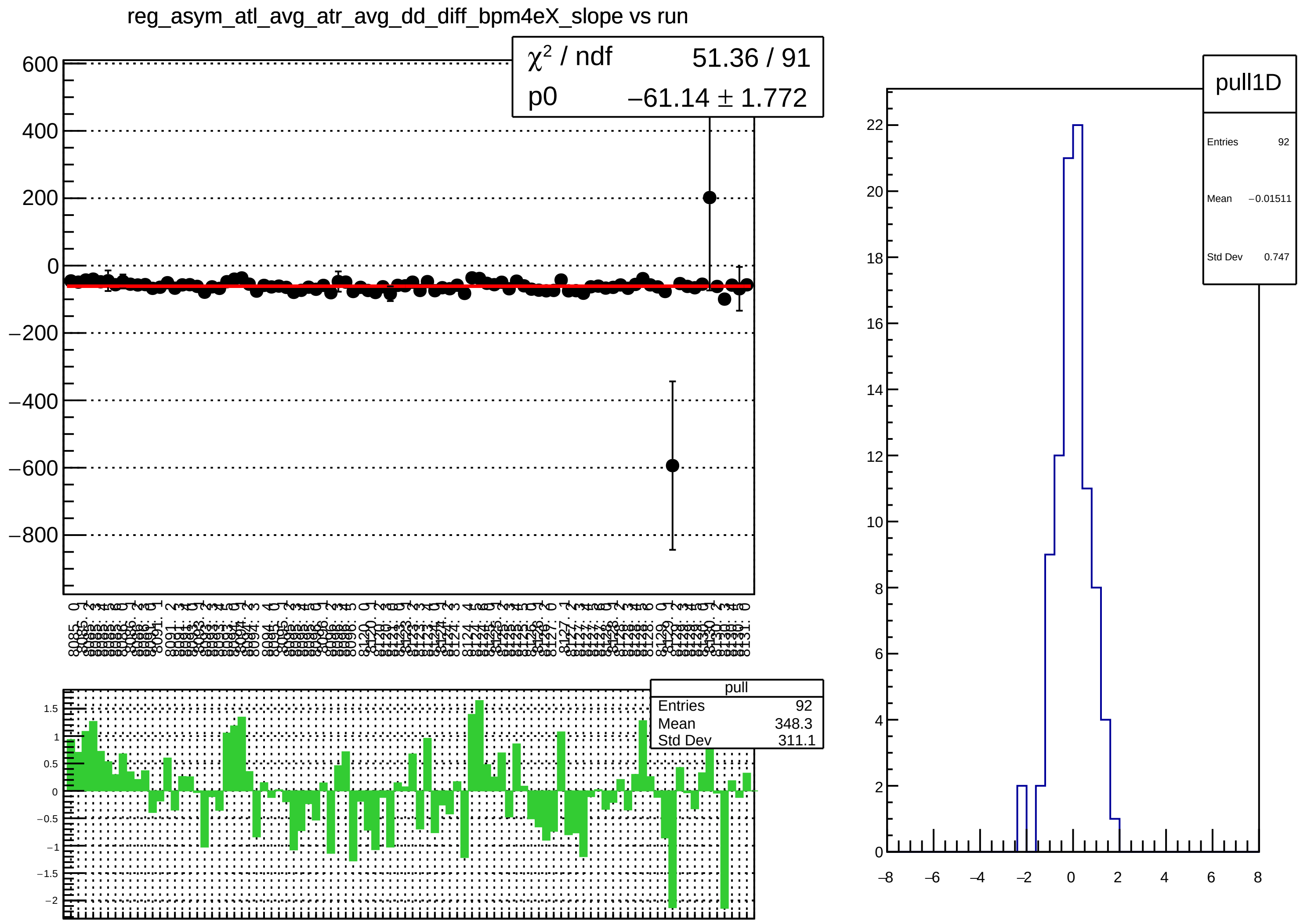


reg_asym_atl_avg_atr_avg_avg_diff_bpm12X_slope vs run
χ^2 / ndf 644.9 / 91
p0 −111.2 ± 0.2956
pull
Entries 92
Mean −120.9
Std Dev 159.9
pull1D
Entries 92
Mean −0.343
Std Dev 2.625

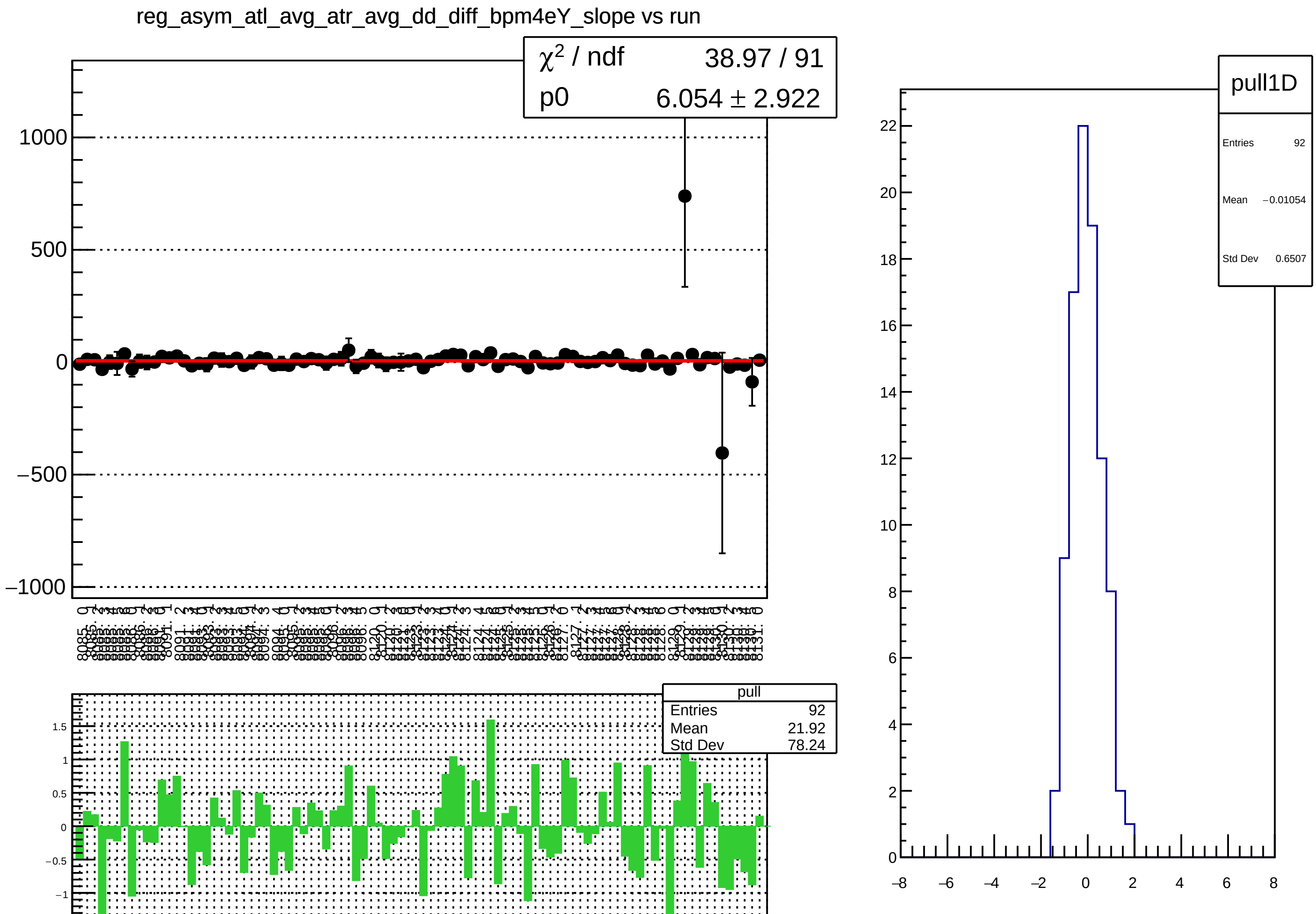


reg_asym_atl_avg_atr_avg_dd_diff_bpm1X_slope vs run
χ^2 / ndf 53.17 / 91
p0 44.1 ± 1.865
pull
Entries 92
Mean 360.3
Std Dev 323.9
pull1D
Entries 92
Mean 0.01516
Std Dev 0.76

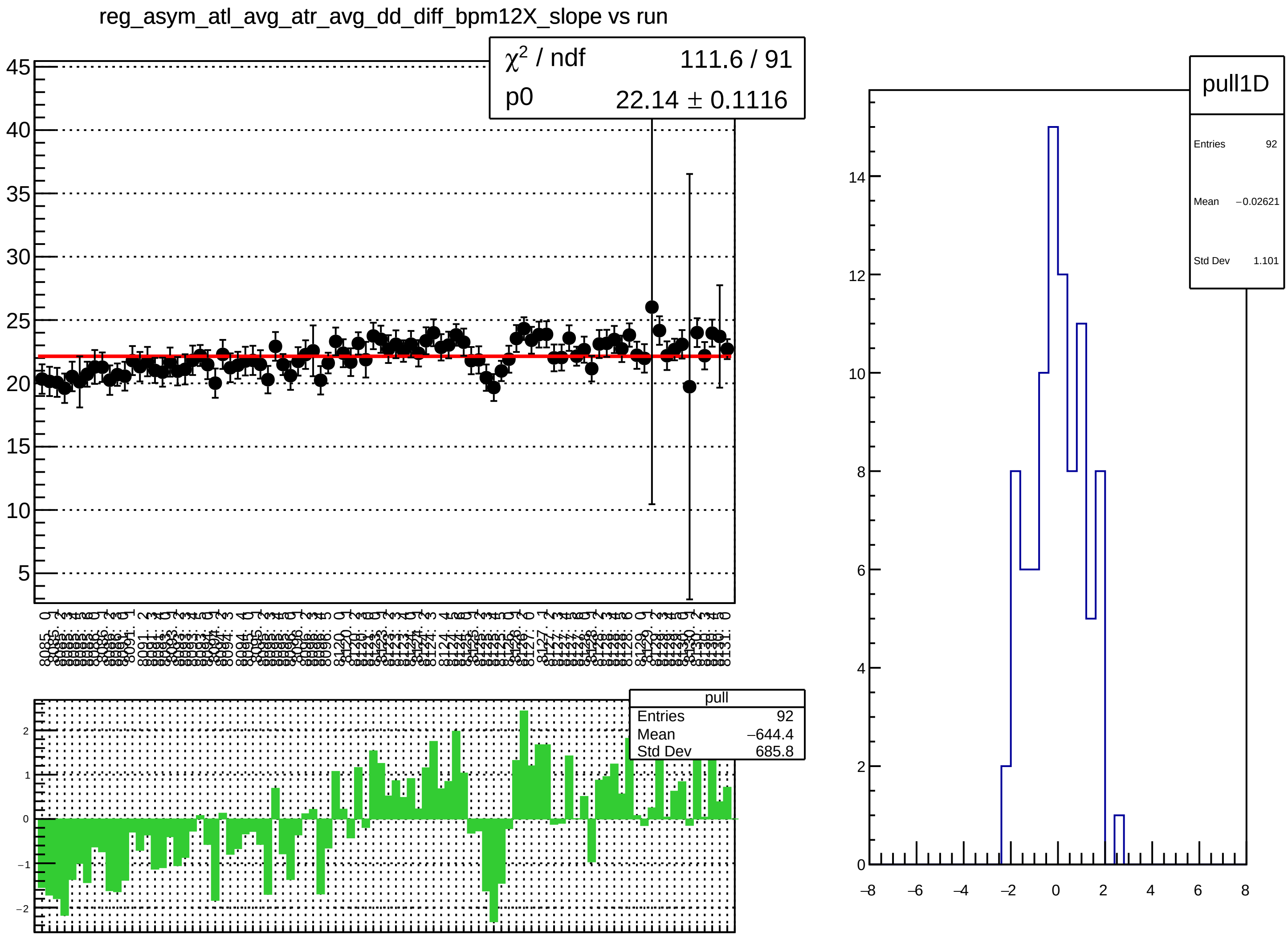

reg_asym_atl_avg_atr_avg_dd_diff_bpm4aY_slope vs run
χ^2 / ndf 39.44 / 91
p0 −11.75 ± 2.736
pull
Entries 92
Mean −21.22
Std Dev 62.92
pull1D
Entries 92
Mean 0.007651
Std Dev 0.6547

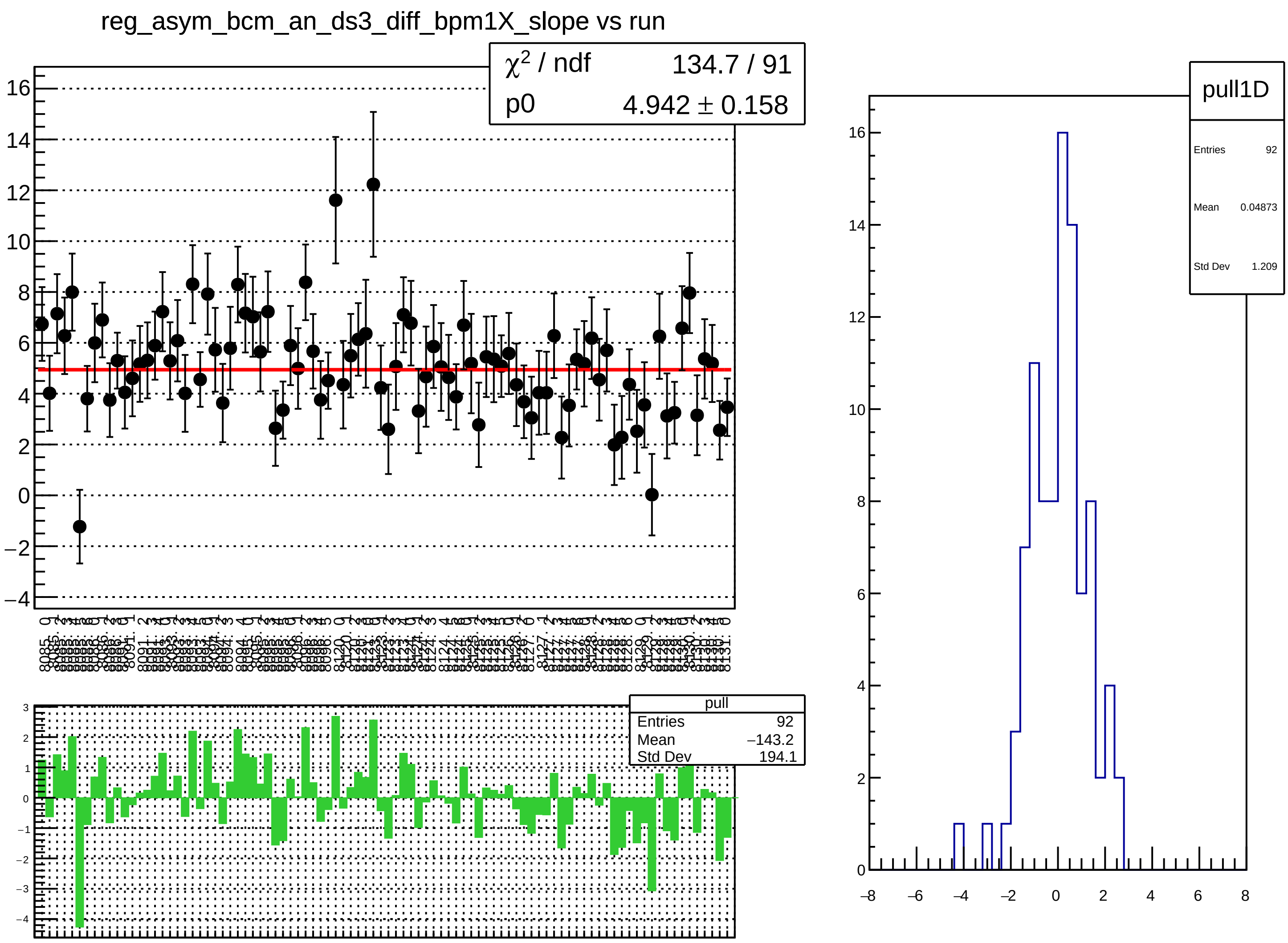


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eX_slope vs run
χ² / ndf 51.36 / 91
p0 −61.14 ± 1.772
pull
Entries 92
Mean 348.3
Std Dev 311.1
pull1D
Entries 92
Mean −0.01511
Std Dev 0.747

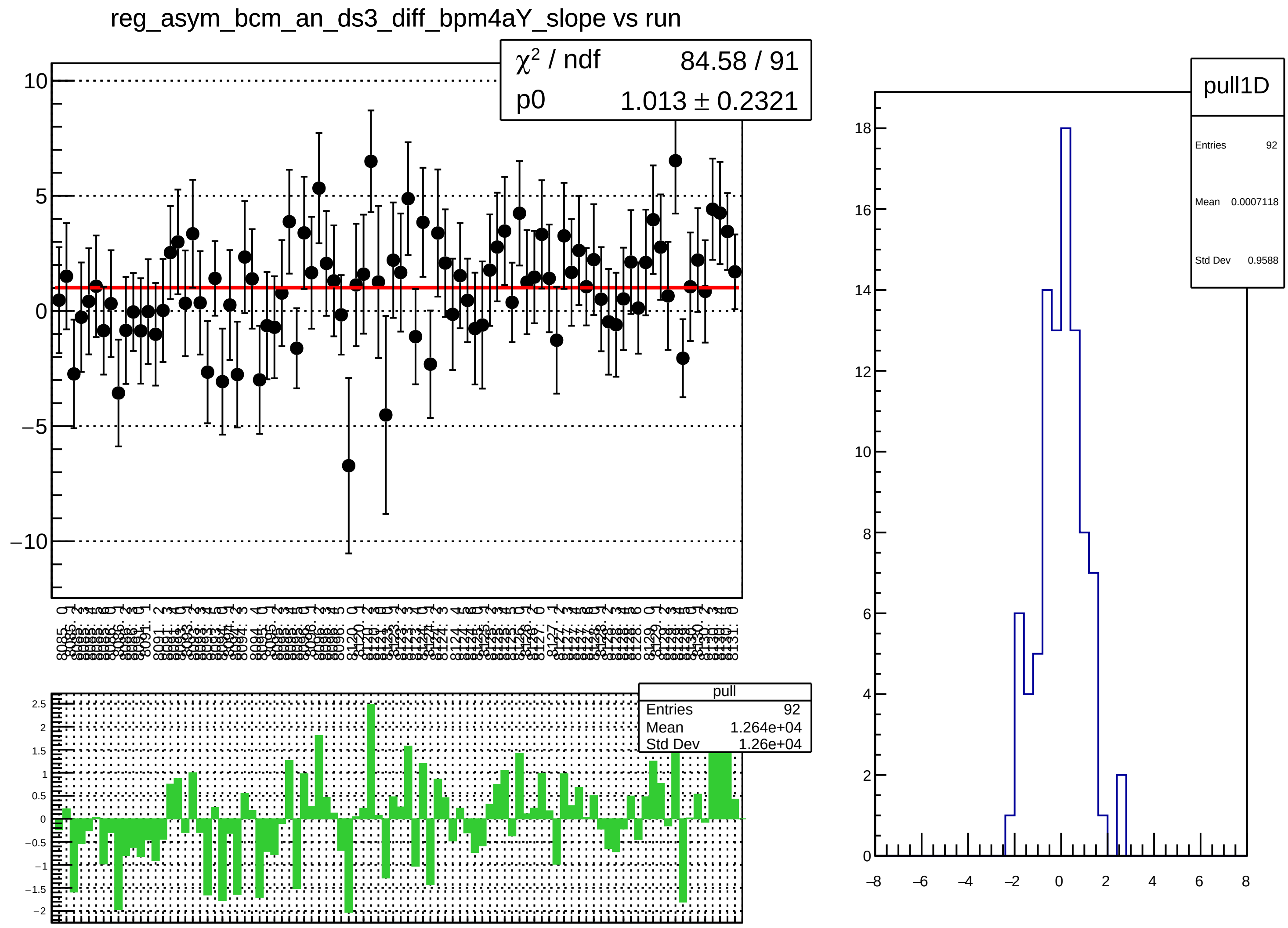


reg_asym_atl_avg_atr_avg_dd_diff_bpm4eY_slope vs run
χ2 / ndf 38.97 / 91
p0 6.054 ± 2.922
1000
500
0
−500
−1000
pull
Entries 92
Mean 21.92
Std Dev 78.24
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 92
Mean −0.01054
Std Dev 0.6507
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

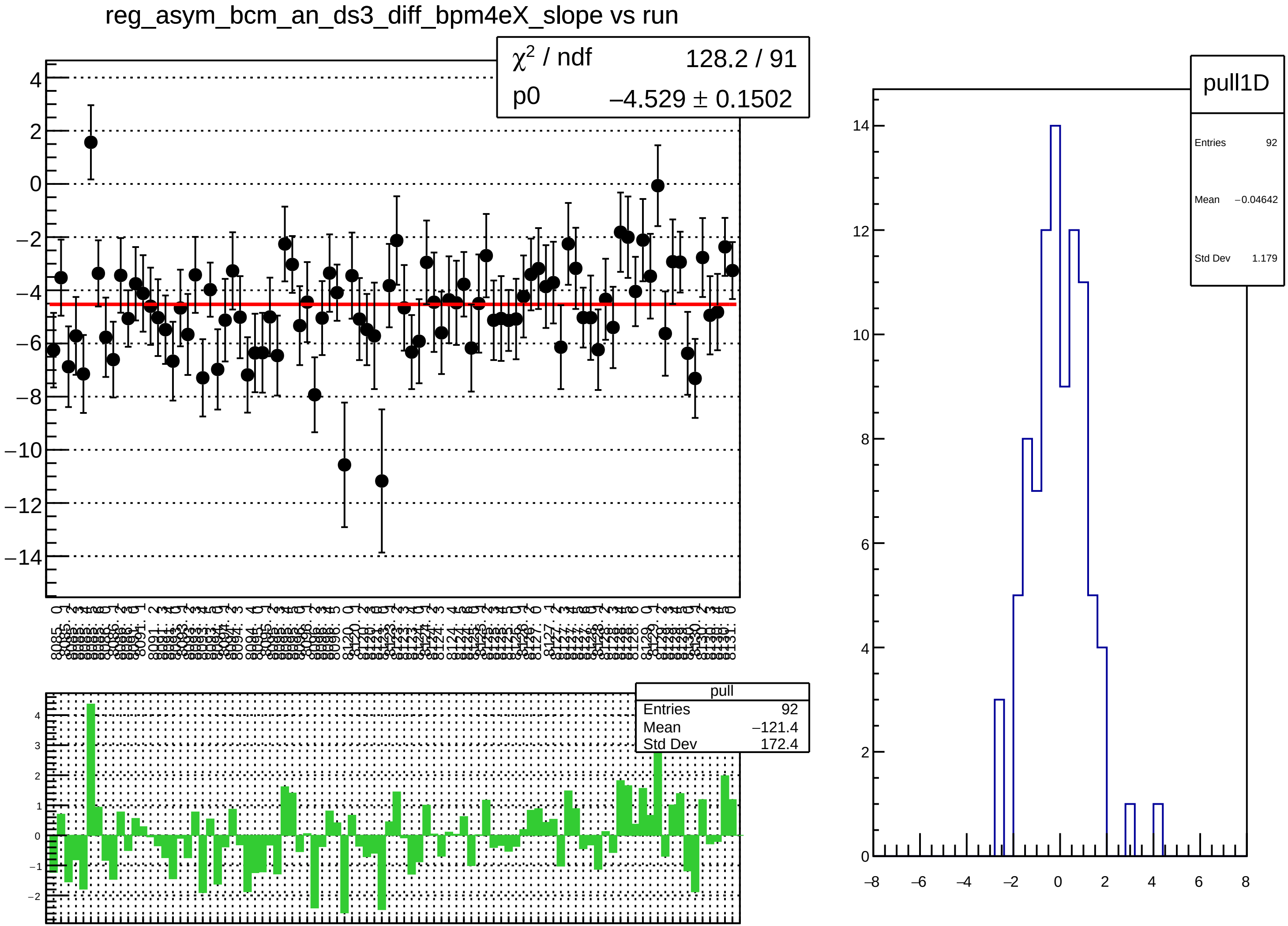

reg_asym_atl_avg_atr_avg_dd_diff_bpm12X_slope vs run
χ^2 / ndf 111.6 / 91
p0 22.14 ± 0.1116
pull
Entries 92
Mean −644.4
Std Dev 685.8
pull1D
Entries 92
Mean −0.02621
Std Dev 1.101



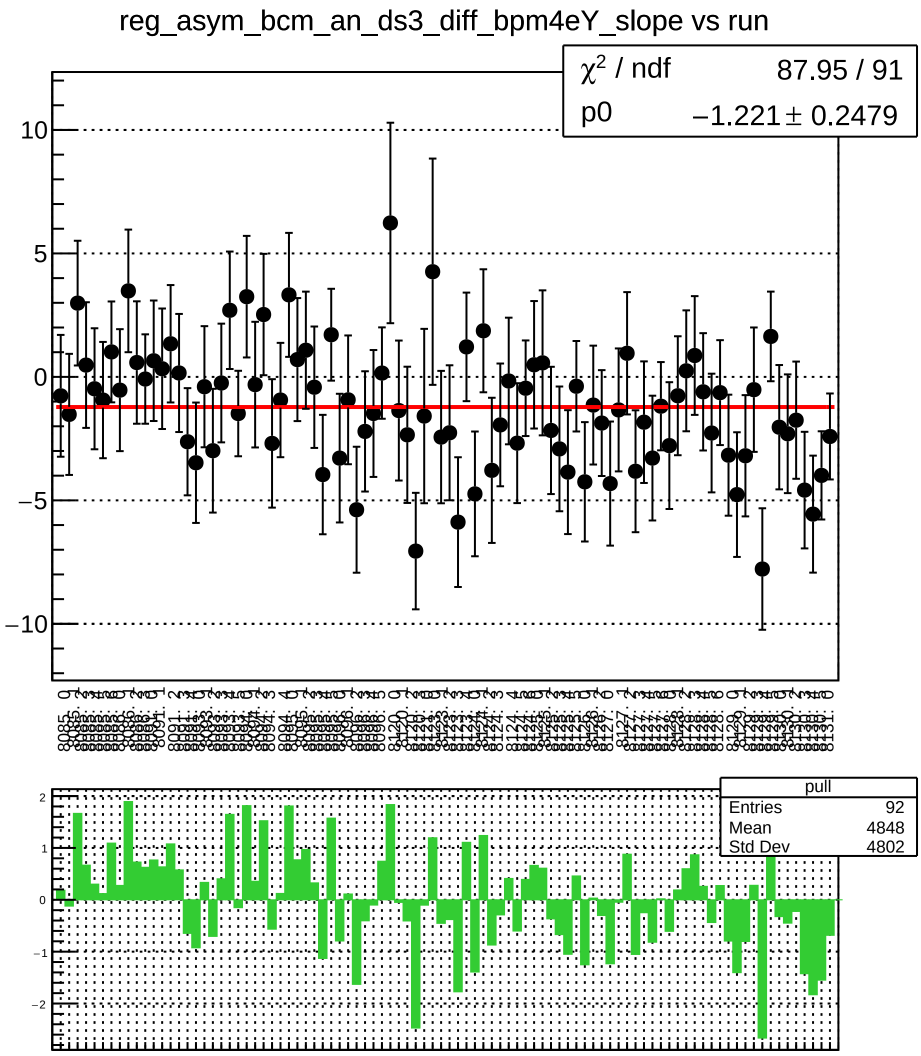
reg_asym_bcm_an_ds3_diff_bpm1X_slope vs run
χ2 / ndf 134.7 / 91
p0 4.942 ± 0.158
pull
Entries 92
Mean −143.2
Std Dev 194.1
pull1D
Entries 92
Mean 0.04873
Std Dev 1.209



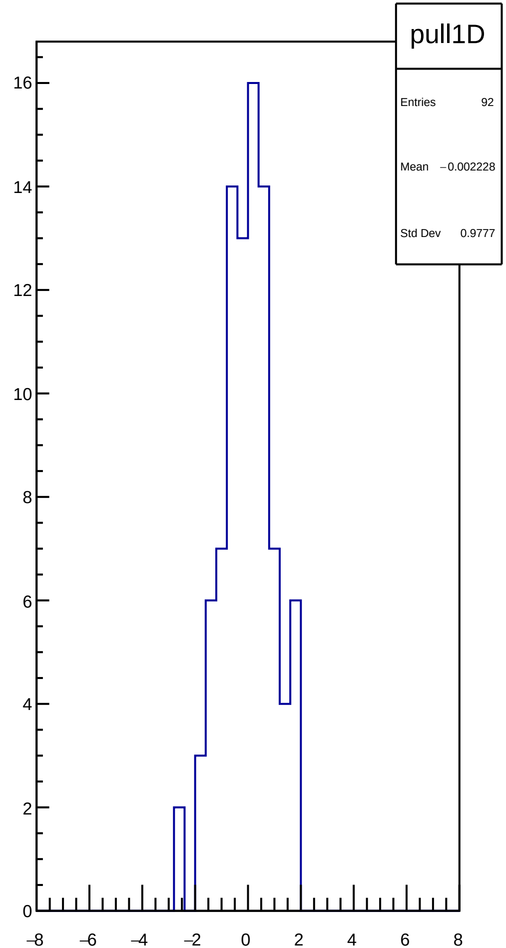
reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ2 / ndf 84.58 / 91
p0 1.013 ± 0.2321
pull
Entries 92
Mean 1.264e+04
Std Dev 1.26e+04
pull1D
Entries 92
Mean 0.0007118
Std Dev 0.9588



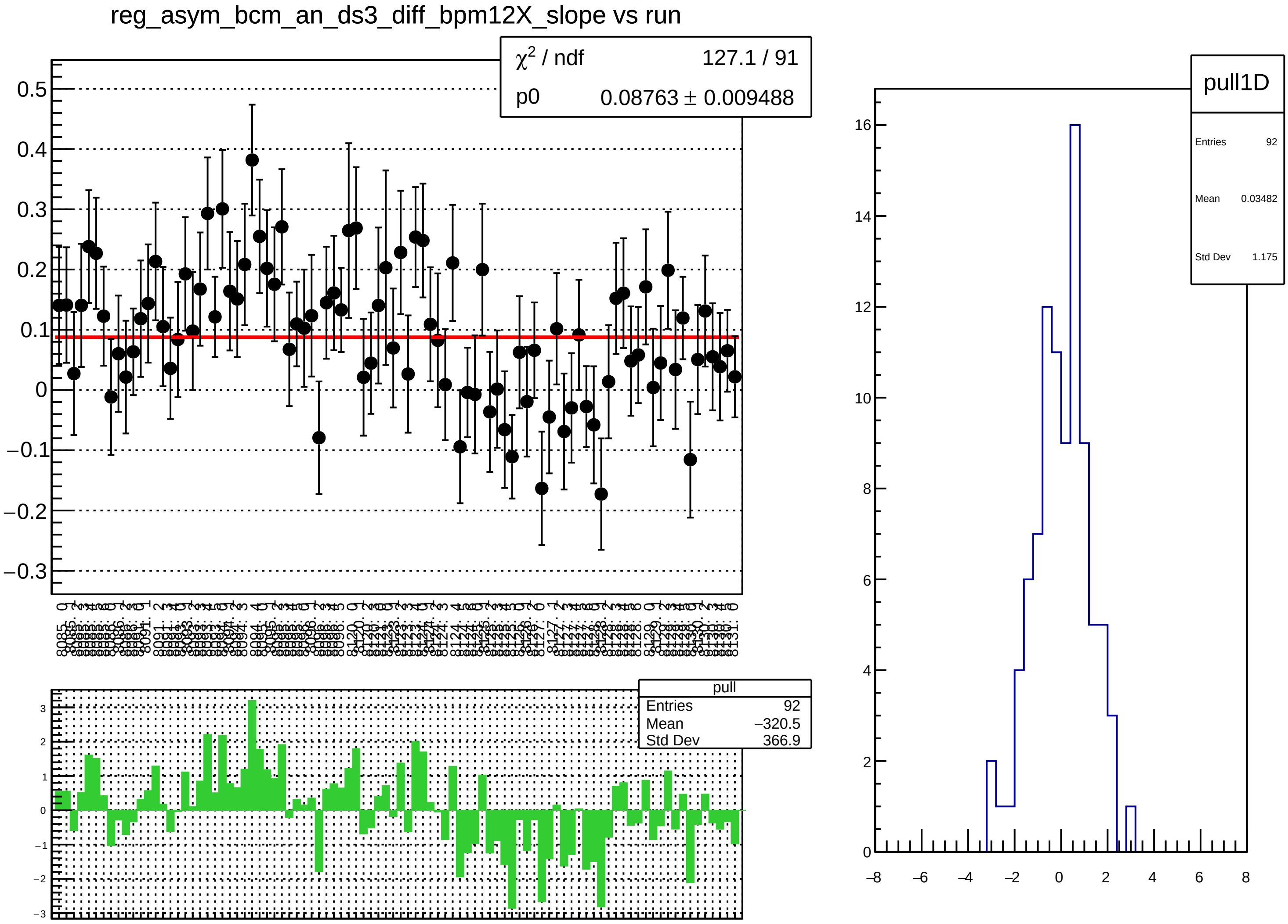
reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ^2 / ndf 128.2 / 91
p0 −4.529 ± 0.1502
pull
Entries 92
Mean −121.4
Std Dev 172.4
pull1D
Entries 92
Mean −0.04642
Std Dev 1.179



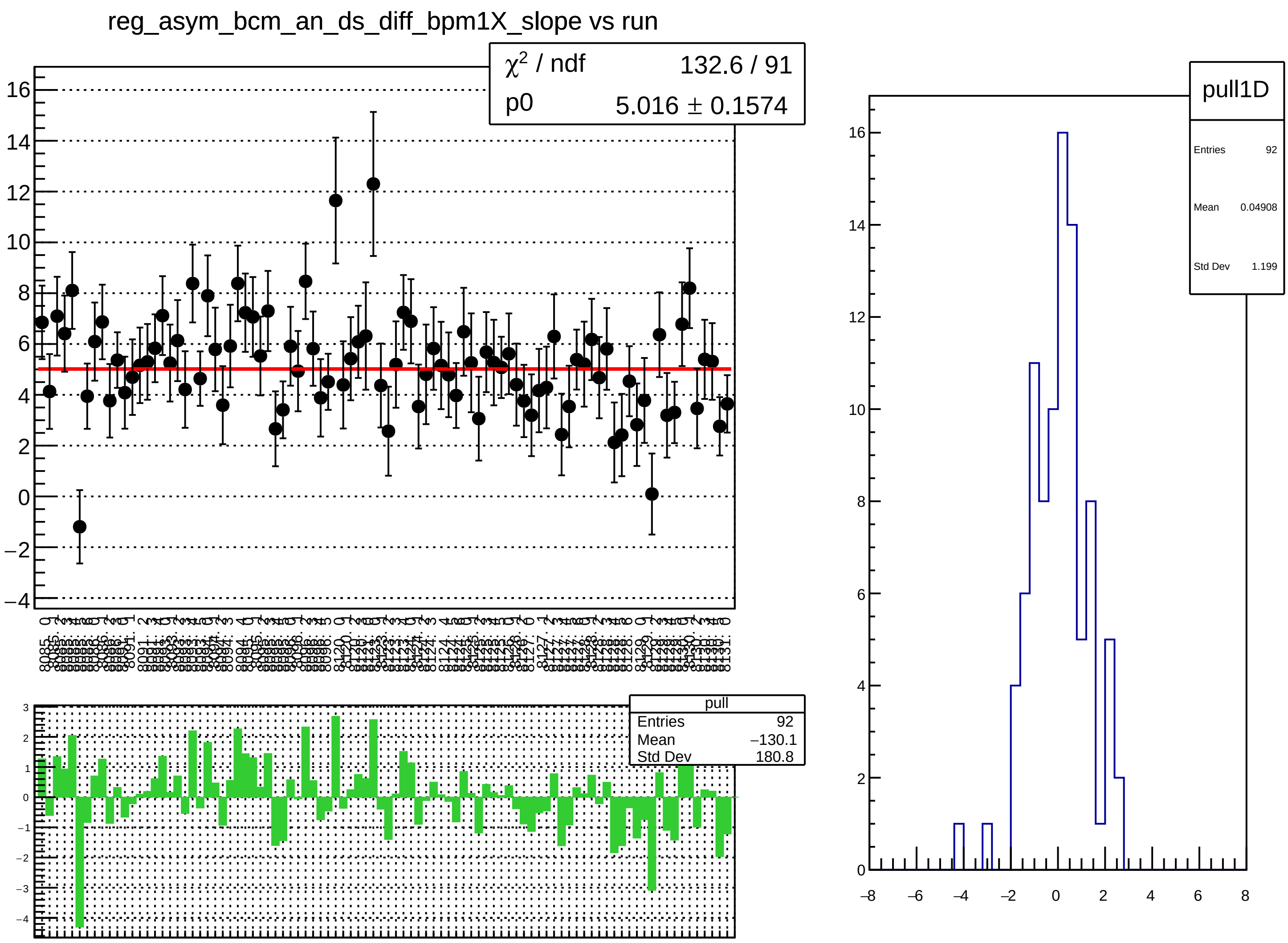
reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ^2 / ndf 87.95 / 91
p0 −1.221 ± 0.2479
pull
Entries 92
Mean 4848
Std Dev 4802



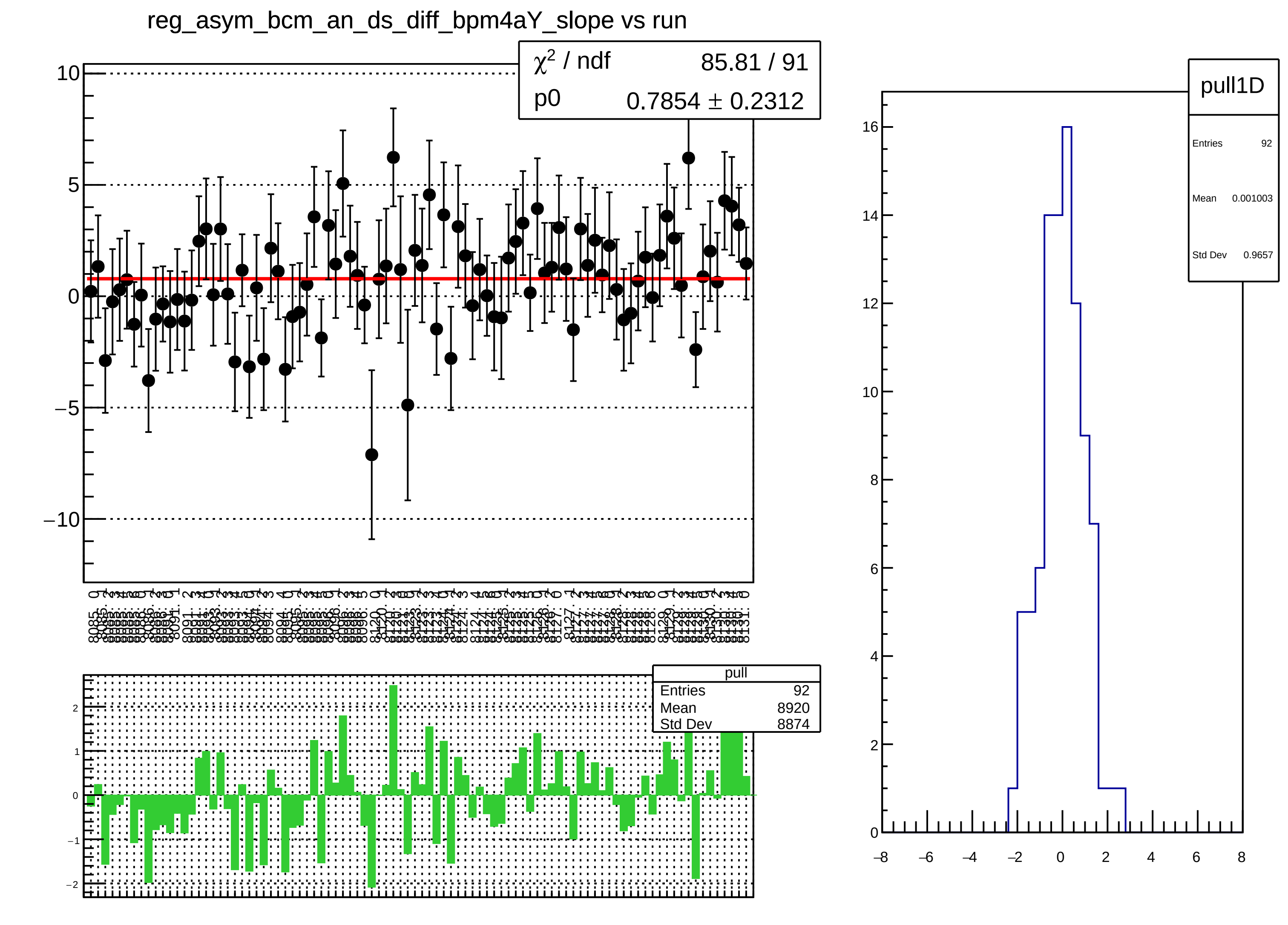
pull1D
Entries 92
Mean −0.002228
Std Dev 0.9777



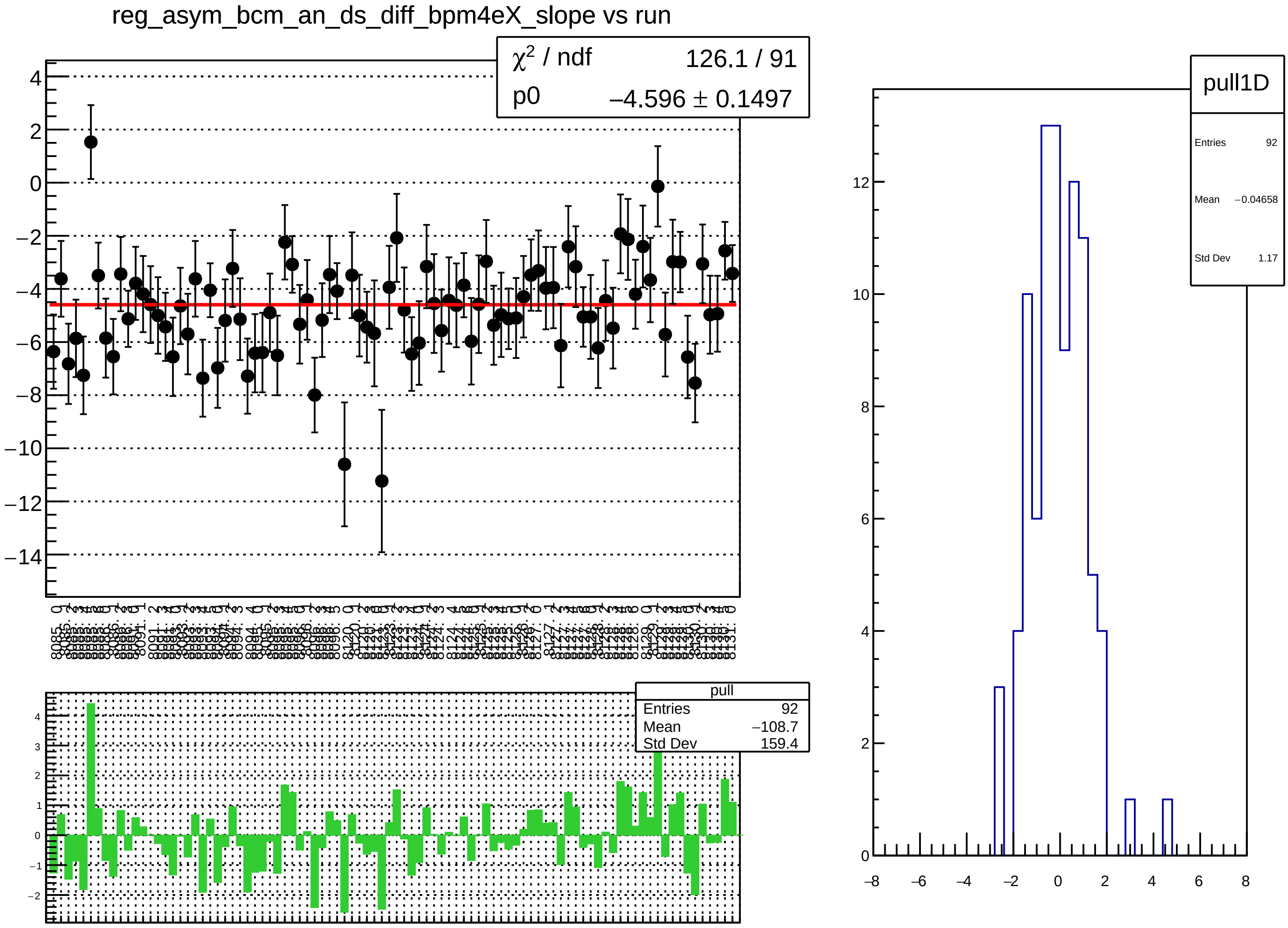
reg_asym_bcm_an_ds3_diff_bpm12X_slope vs run
χ^2 / ndf 127.1 / 91
p0 0.08763 ± 0.009488
pull
Entries 92
Mean −320.5
Std Dev 366.9
pull1D
Entries 92
Mean 0.03482
Std Dev 1.175



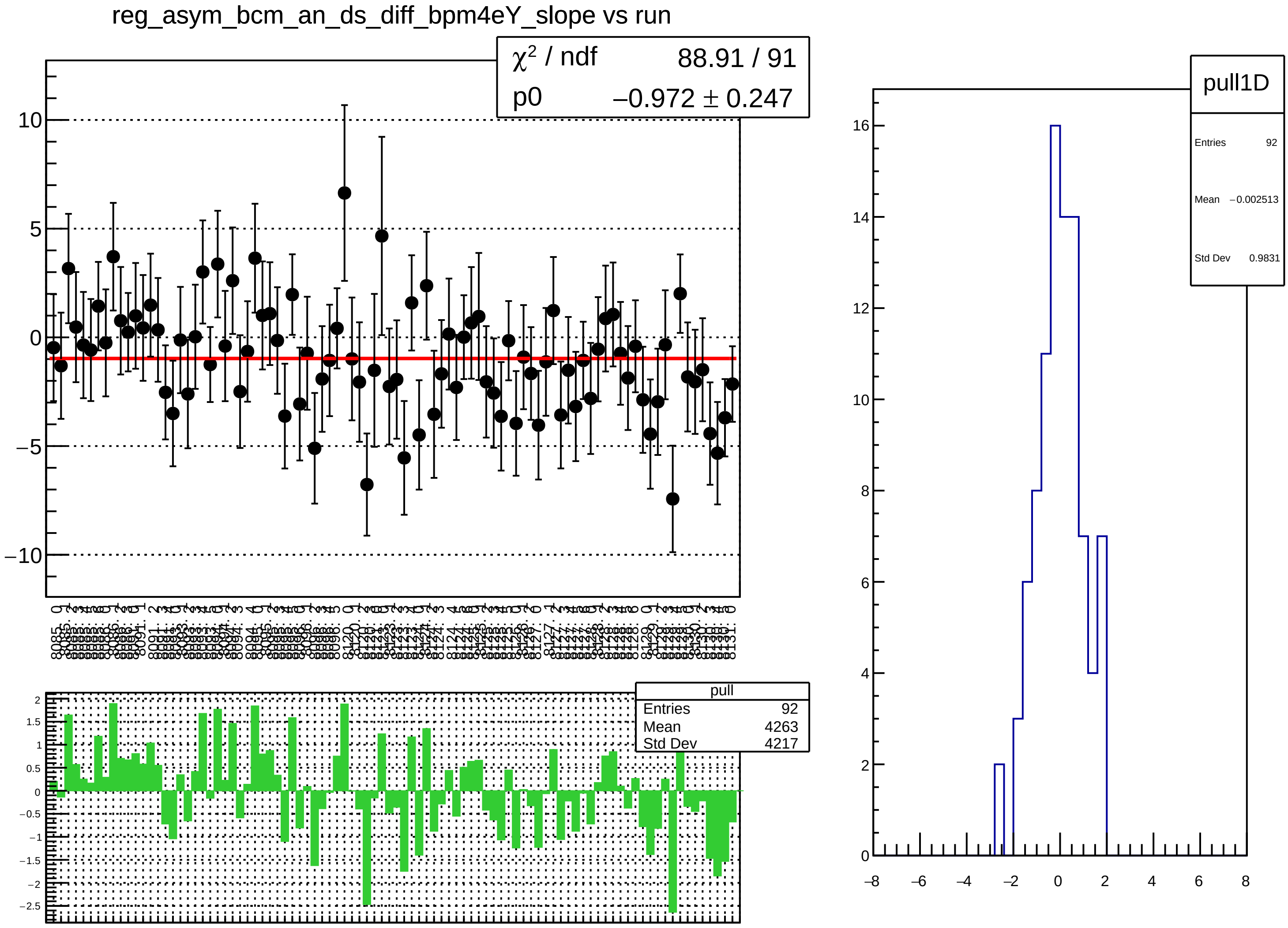
reg_asym_bcm_an_ds_diff_bpm1X_slope vs run
χ^2 / ndf 132.6 / 91
p0 5.016 ± 0.1574
pull
Entries 92
Mean −130.1
Std Dev 180.8
pull1D
Entries 92
Mean 0.04908
Std Dev 1.199

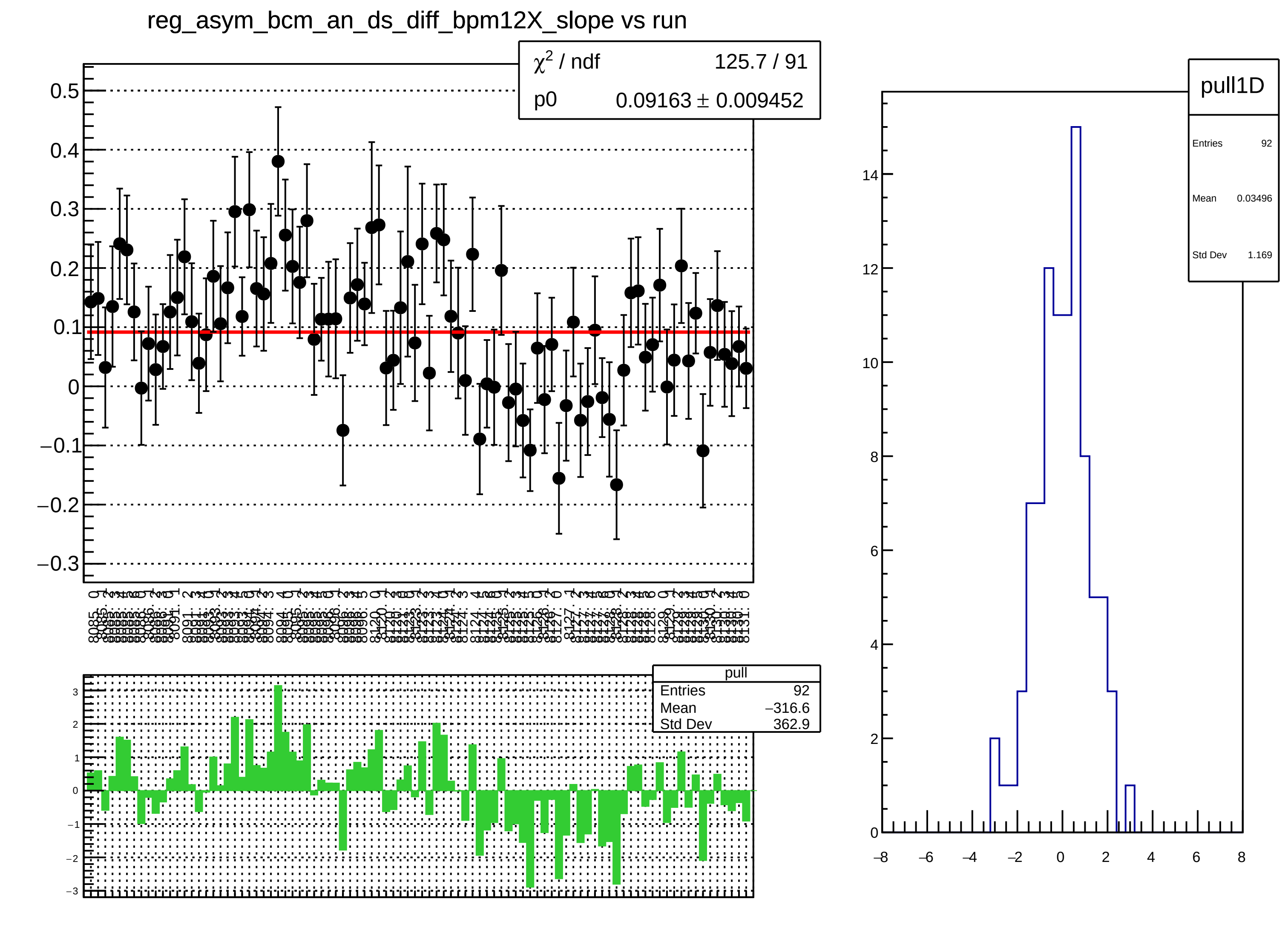


reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ^2 / ndf 85.81 / 91
p0 0.7854 ± 0.2312
pull
Entries 92
Mean 8920
Std Dev 8874
pull1D
Entries 92
Mean 0.001003
Std Dev 0.9657

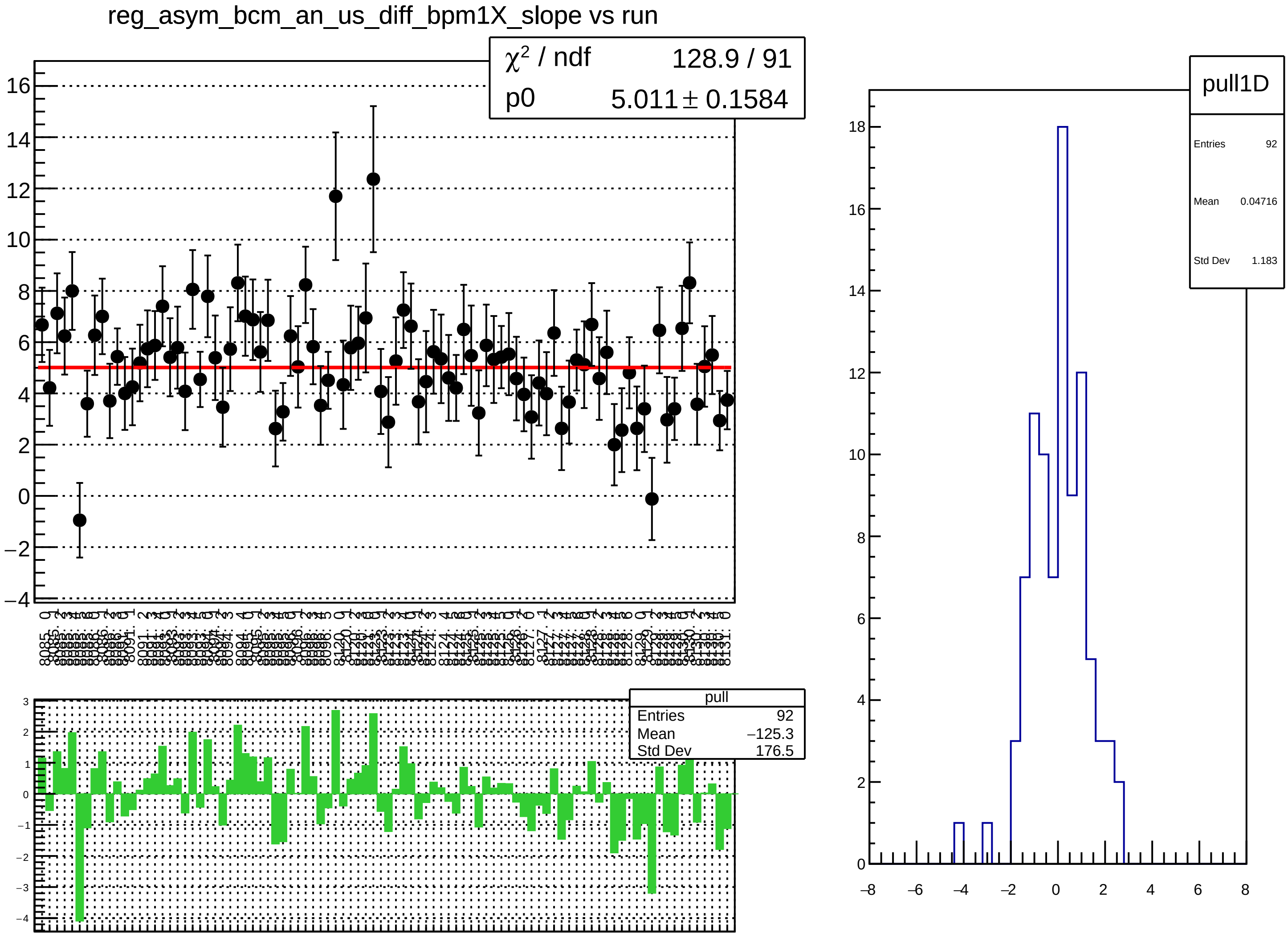


reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ2 / ndf 126.1 / 91
p0 −4.596 ± 0.1497
pull
Entries 92
Mean −108.7
Std Dev 159.4
pull1D
Entries 92
Mean −0.04658
Std Dev 1.17

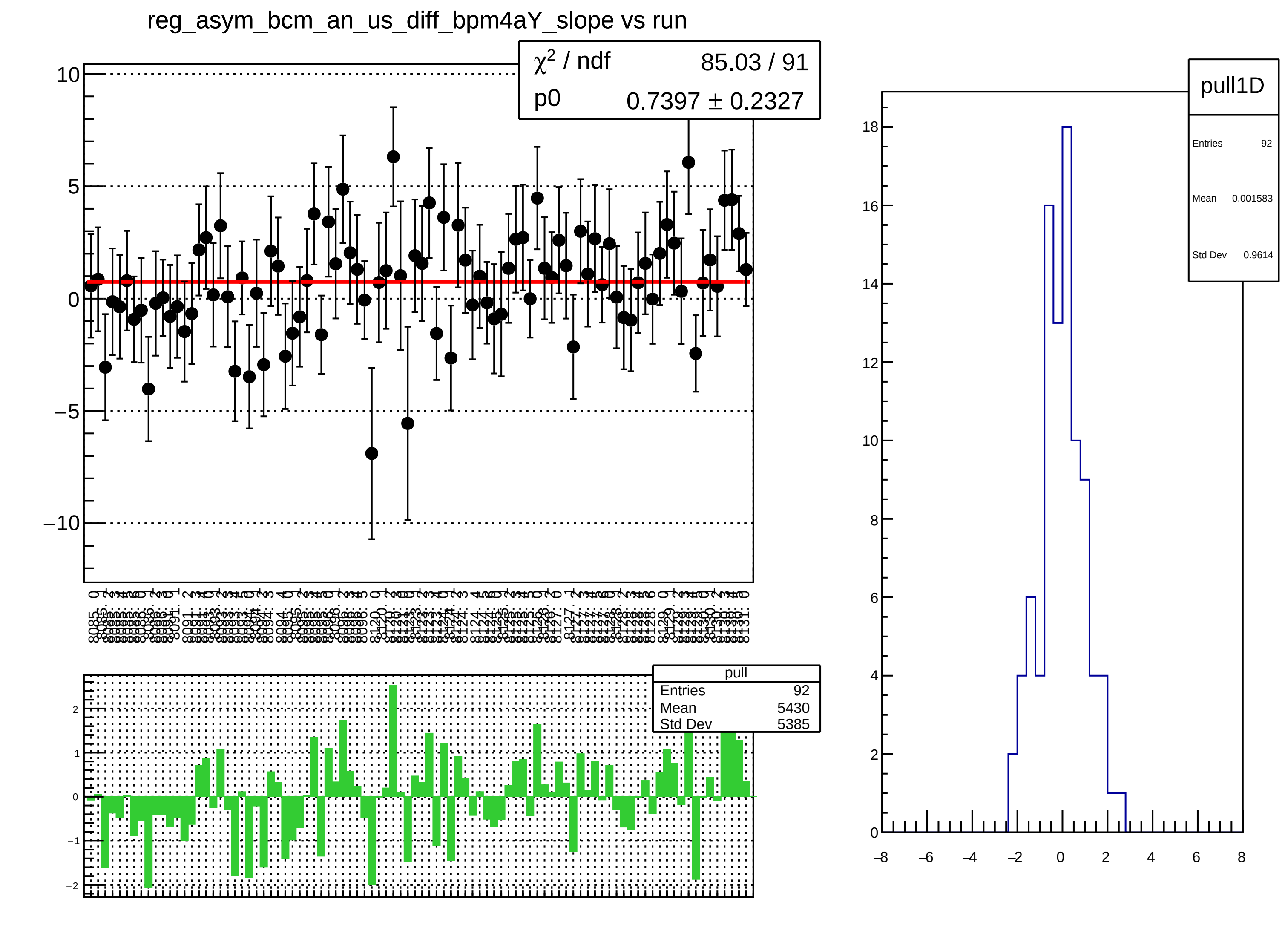

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ^2 / ndf 88.91 / 91
p0 −0.972 ± 0.247
pull
Entries 92
Mean 4263
Std Dev 4217
pull1D
Entries 92
Mean −0.002513
Std Dev 0.9831

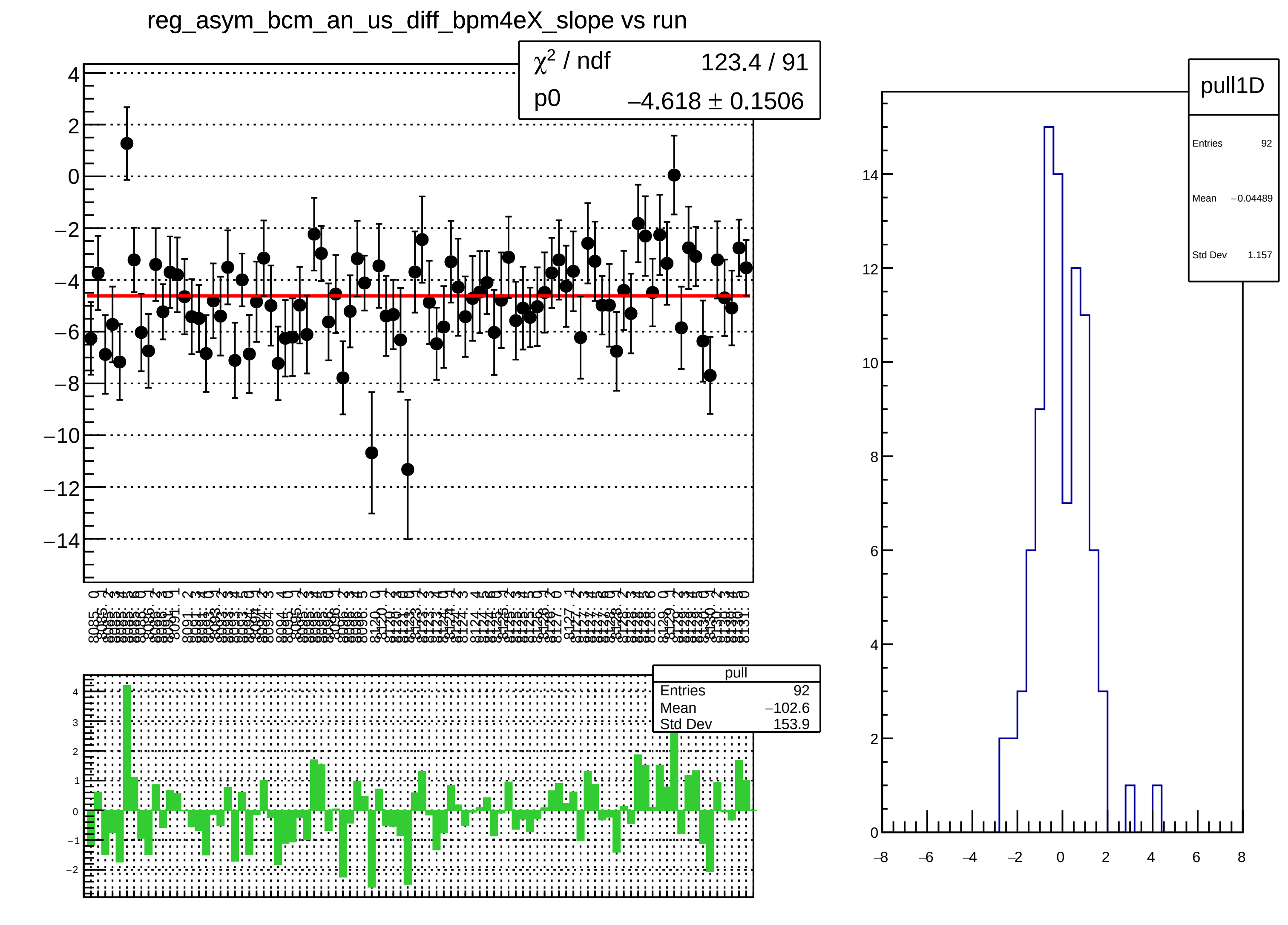


reg_asym_bcm_an_ds_diff_bpm12X_slope vs run
χ^2 / ndf 125.7 / 91
p0 0.09163 ± 0.009452
pull
Entries 92
Mean −316.6
Std Dev 362.9
pull1D
Entries 92
Mean 0.03496
Std Dev 1.169

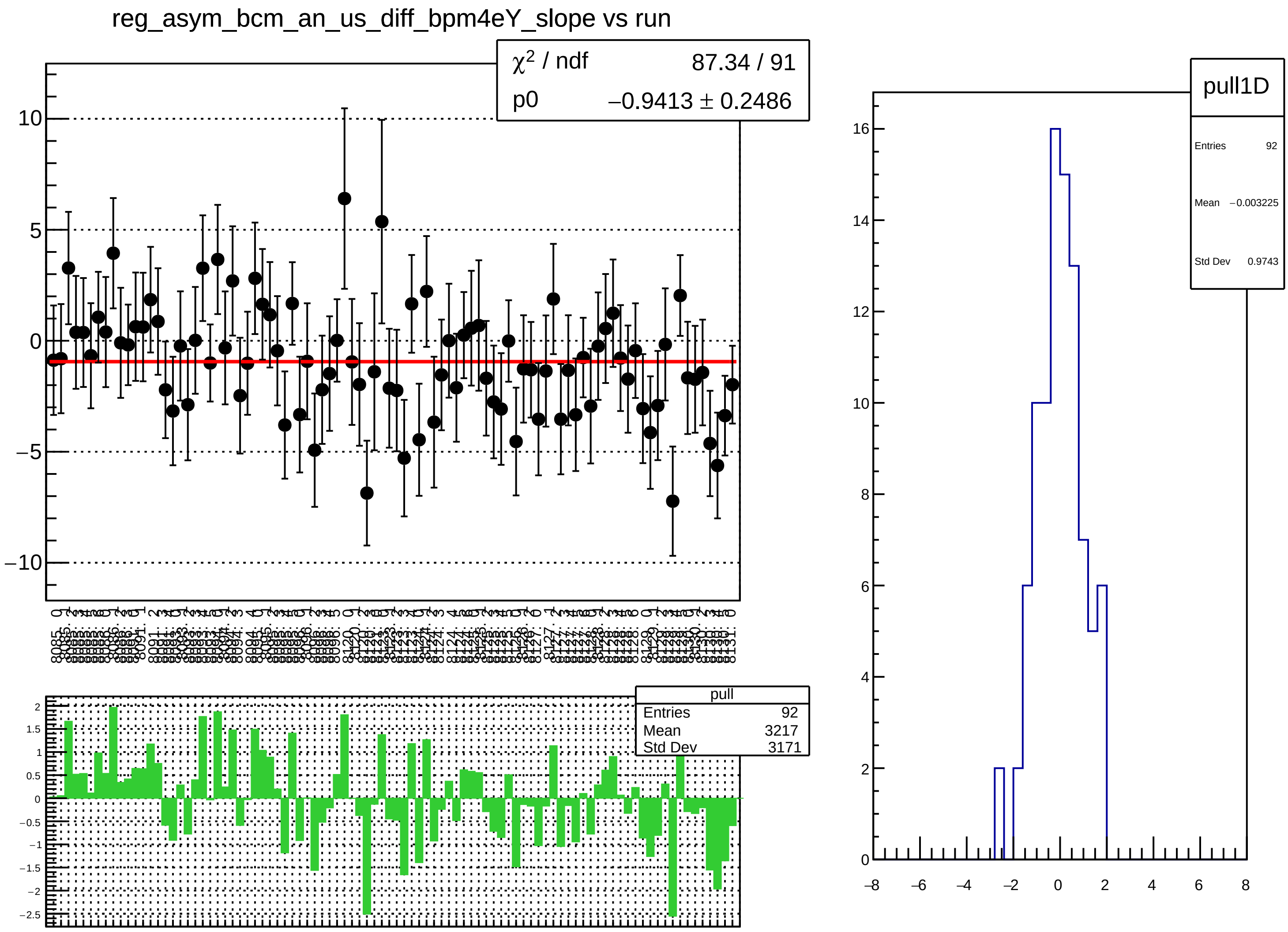


reg_asym_bcm_an_us_diff_bpm1X_slope vs run
χ^2 / ndf 128.9 / 91
p0 5.011 ± 0.1584
pull
Entries 92
Mean −125.3
Std Dev 176.5
pull1D
Entries 92
Mean 0.04716
Std Dev 1.183

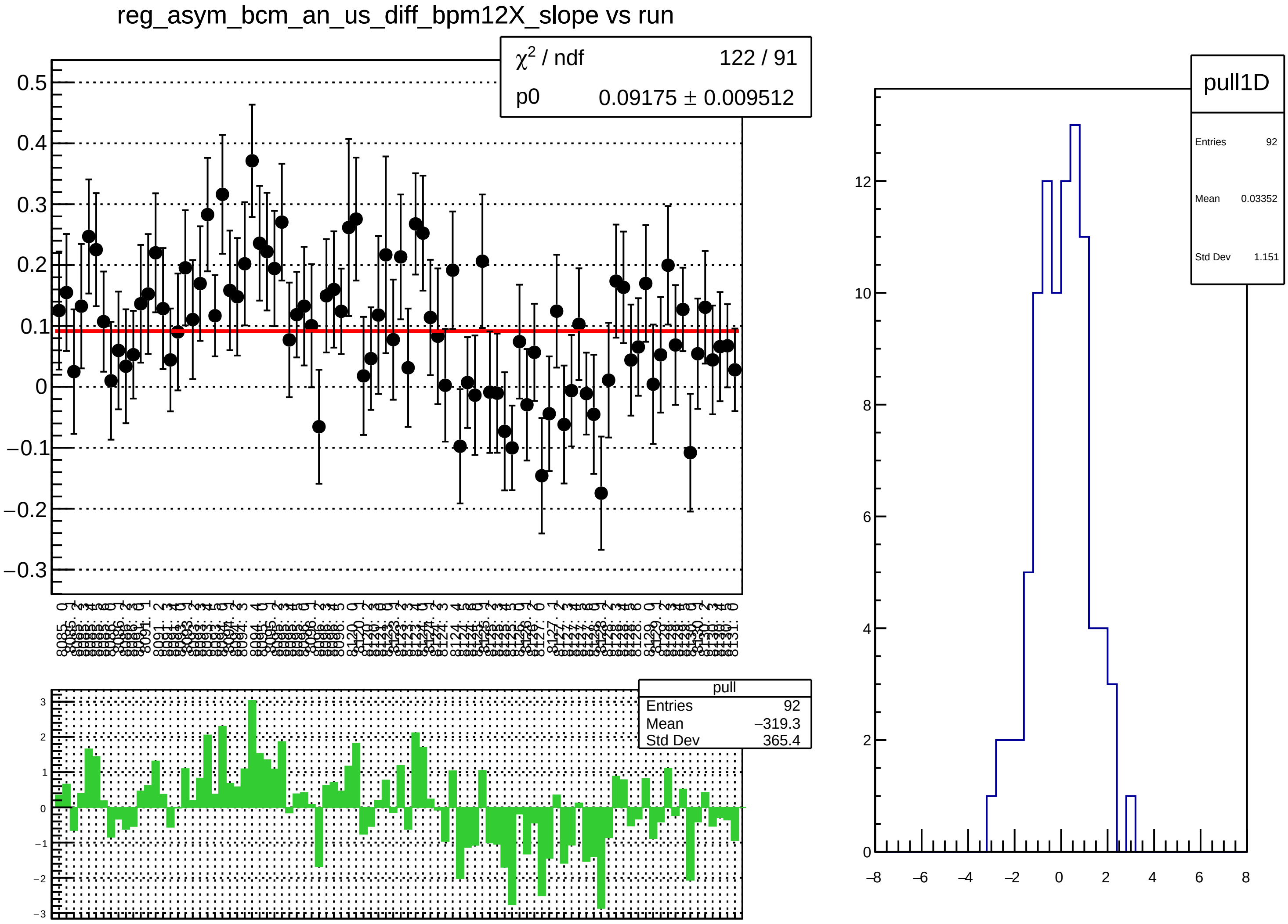

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ2 / ndf 85.03 / 91
p0 0.7397 ± 0.2327
10
5
0
−5
−10
pull
Entries 92
Mean 5430
Std Dev 5385
2
1
0
−1
−2
pull1D
Entries 92
Mean 0.001583
Std Dev 0.9614
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8



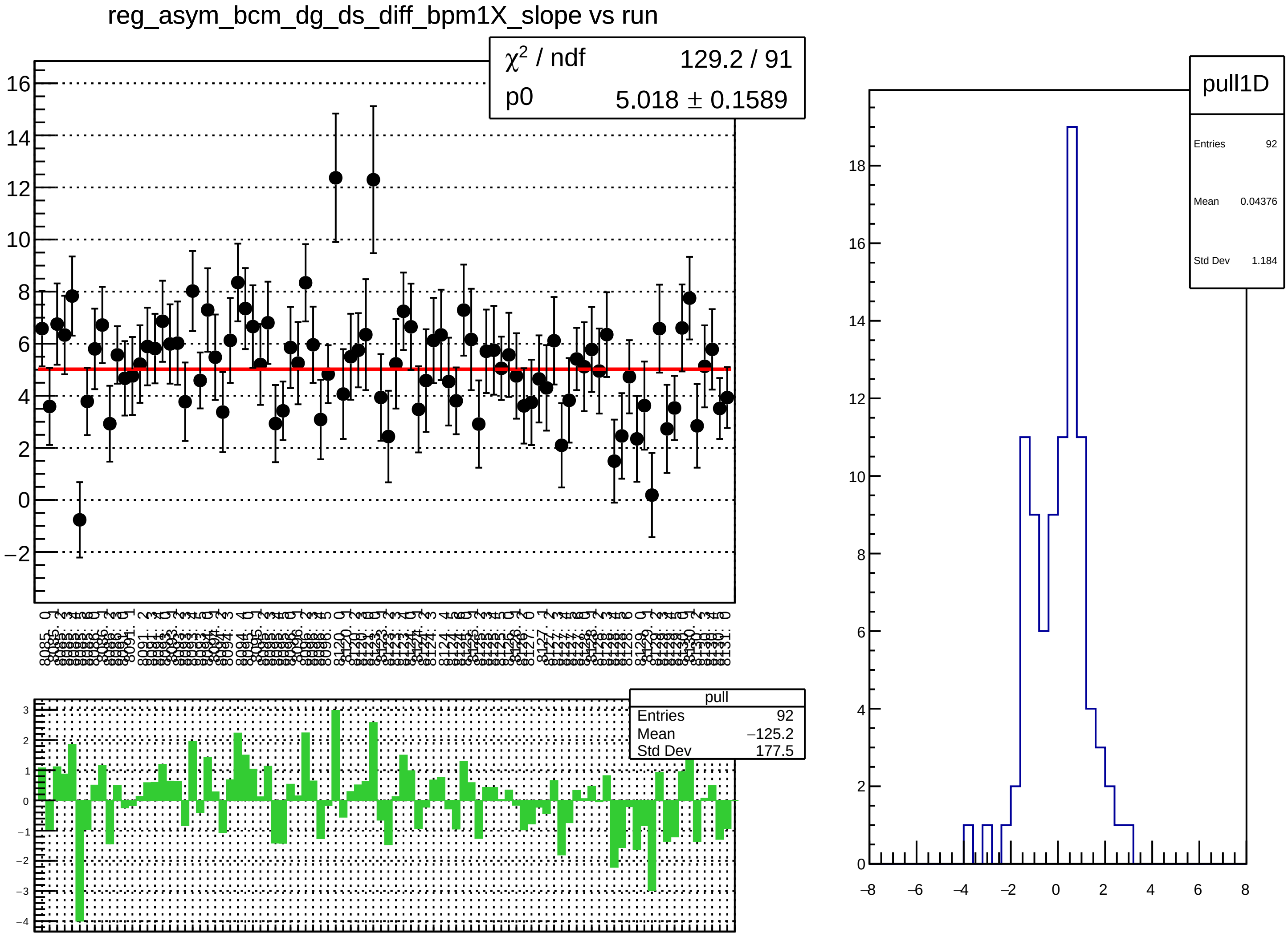
reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ^2 / ndf 123.4 / 91
p0 −4.618 ± 0.1506
pull
Entries 92
Mean −102.6
Std Dev 153.9
pull1D
Entries 92
Mean −0.04489
Std Dev 1.157

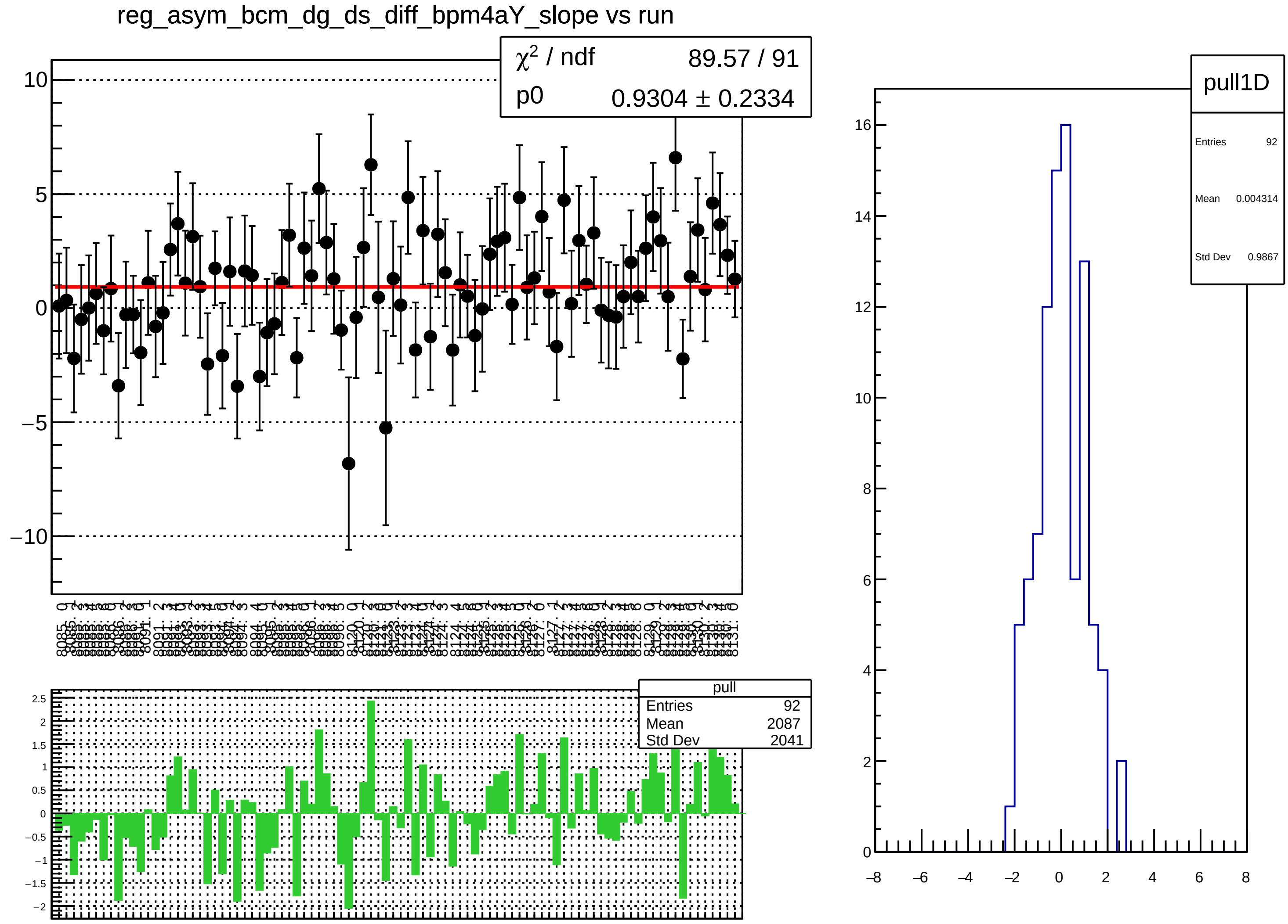


reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ2 / ndf 87.34 / 91
p0 −0.9413 ± 0.2486
pull
Entries 92
Mean 3217
Std Dev 3171
pull1D
Entries 92
Mean −0.003225
Std Dev 0.9743

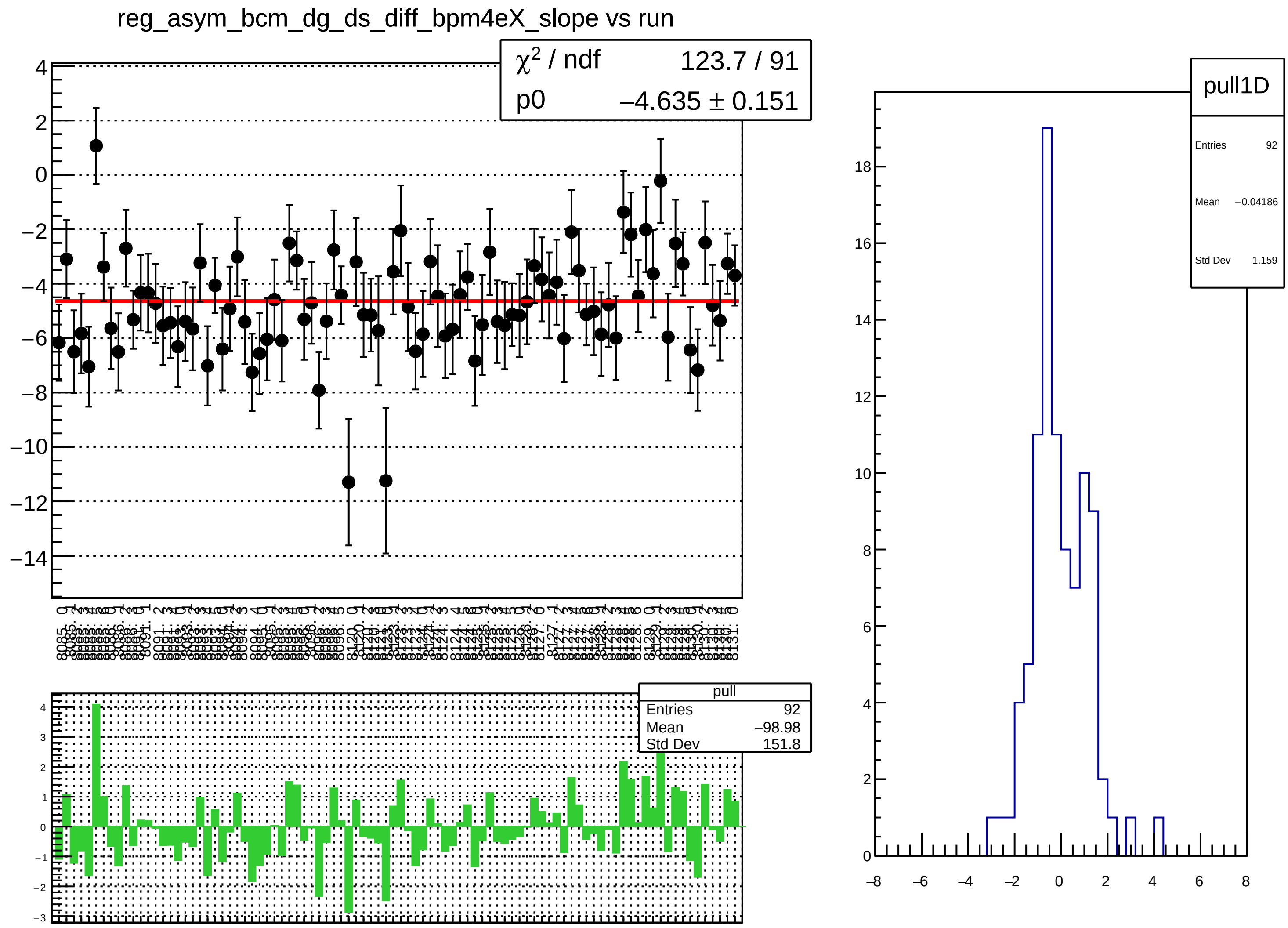


reg_asym_bcm_an_us_diff_bpm12X_slope vs run
χ^2 / ndf 122 / 91
p0 0.09175 ± 0.009512
pull
Entries 92
Mean −319.3
Std Dev 365.4
pull1D
Entries 92
Mean 0.03352
Std Dev 1.151

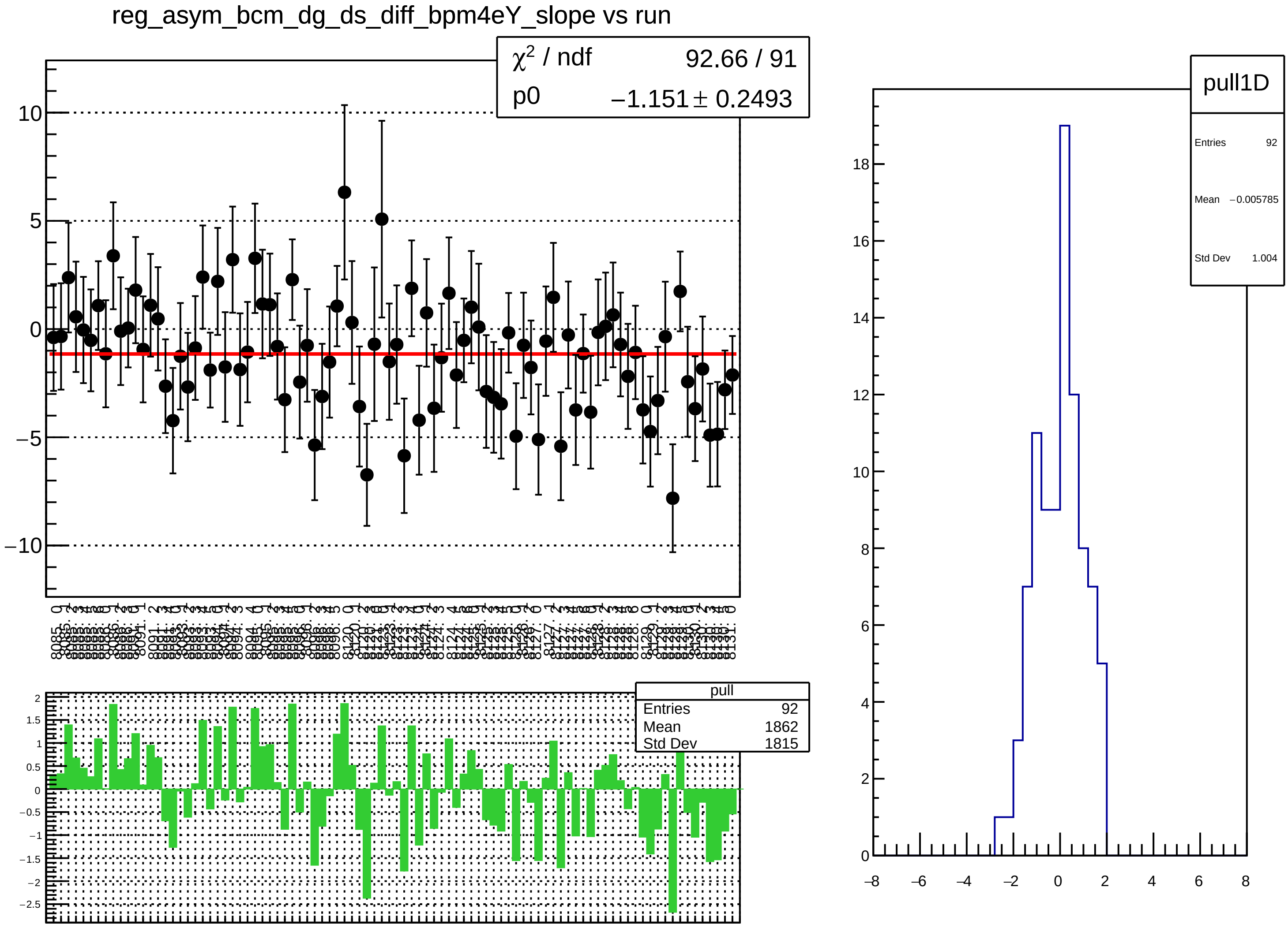

reg_asym_bcm_dg_ds_diff_bpm1X_slope vs run
χ2 / ndf 129.2 / 91
p0 5.018 ± 0.1589
pull
Entries 92
Mean −125.2
Std Dev 177.5
pull1D
Entries 92
Mean 0.04376
Std Dev 1.184

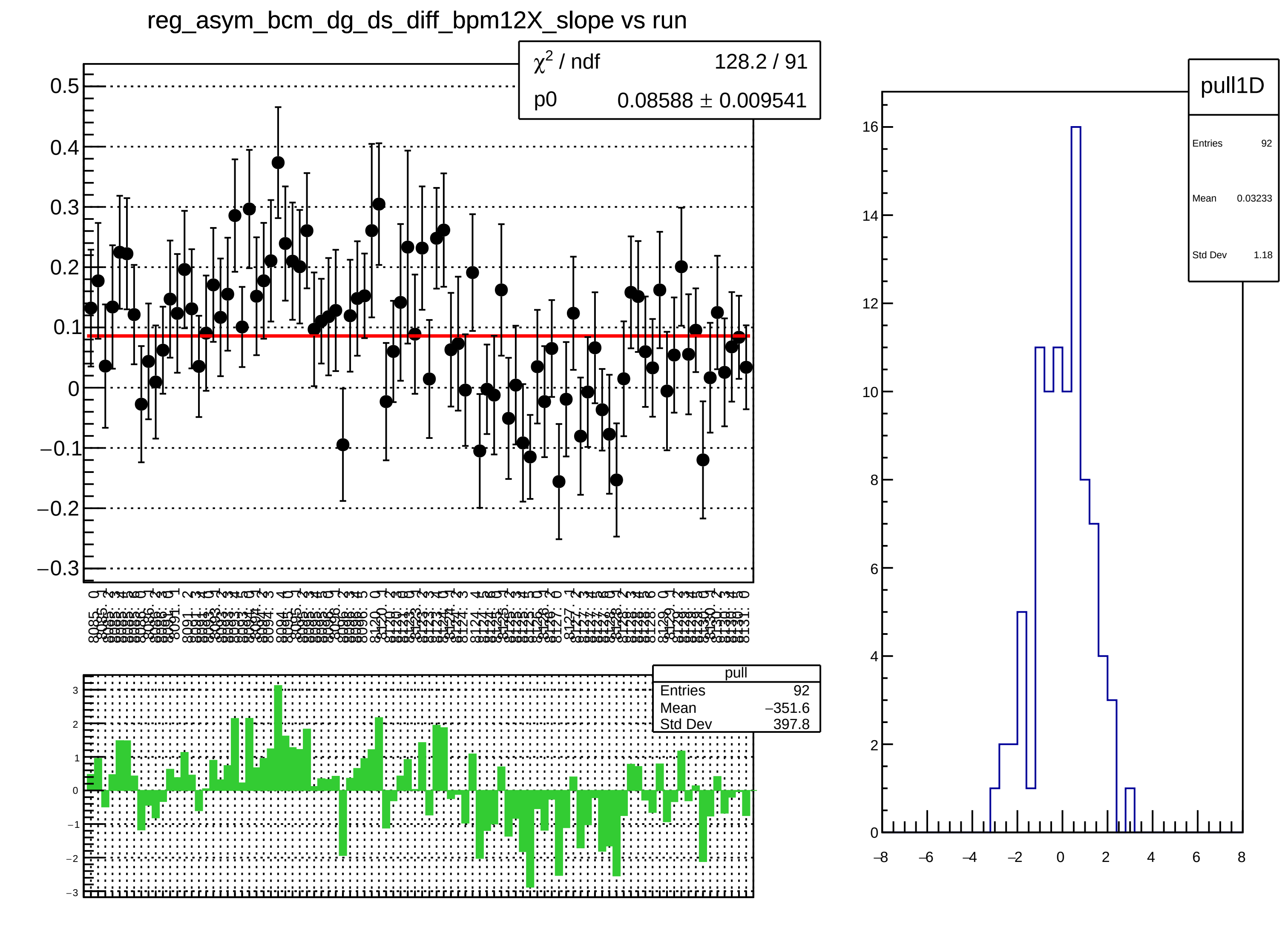


reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ2 / ndf 89.57 / 91
p0 0.9304 ± 0.2334
pull
Entries 92
Mean 2087
Std Dev 2041
pull1D
Entries 92
Mean 0.004314
Std Dev 0.9867

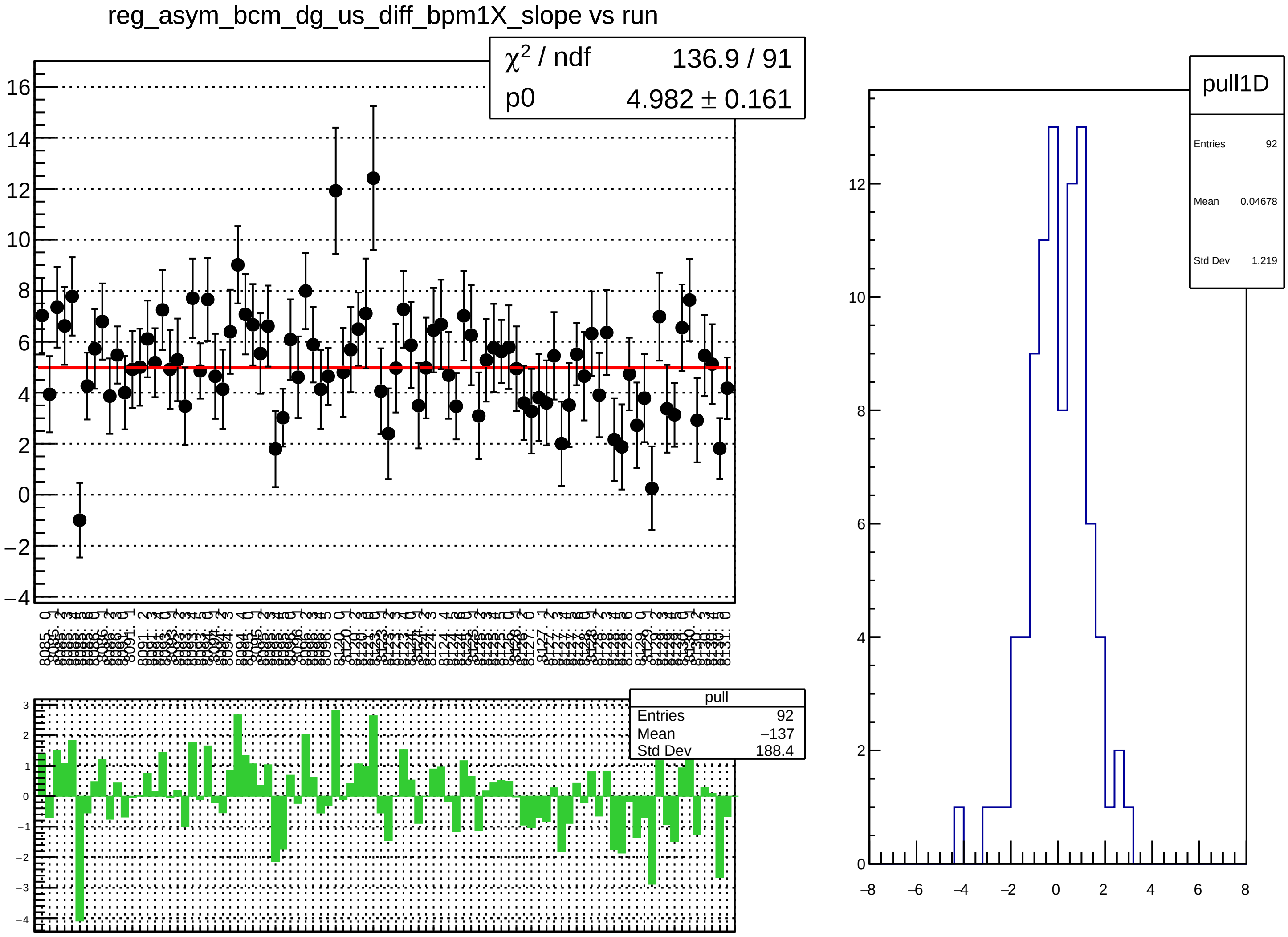


reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ^2 / ndf 123.7 / 91
p0 −4.635 ± 0.151
pull
Entries 92
Mean −98.98
Std Dev 151.8
pull1D
Entries 92
Mean −0.04186
Std Dev 1.159

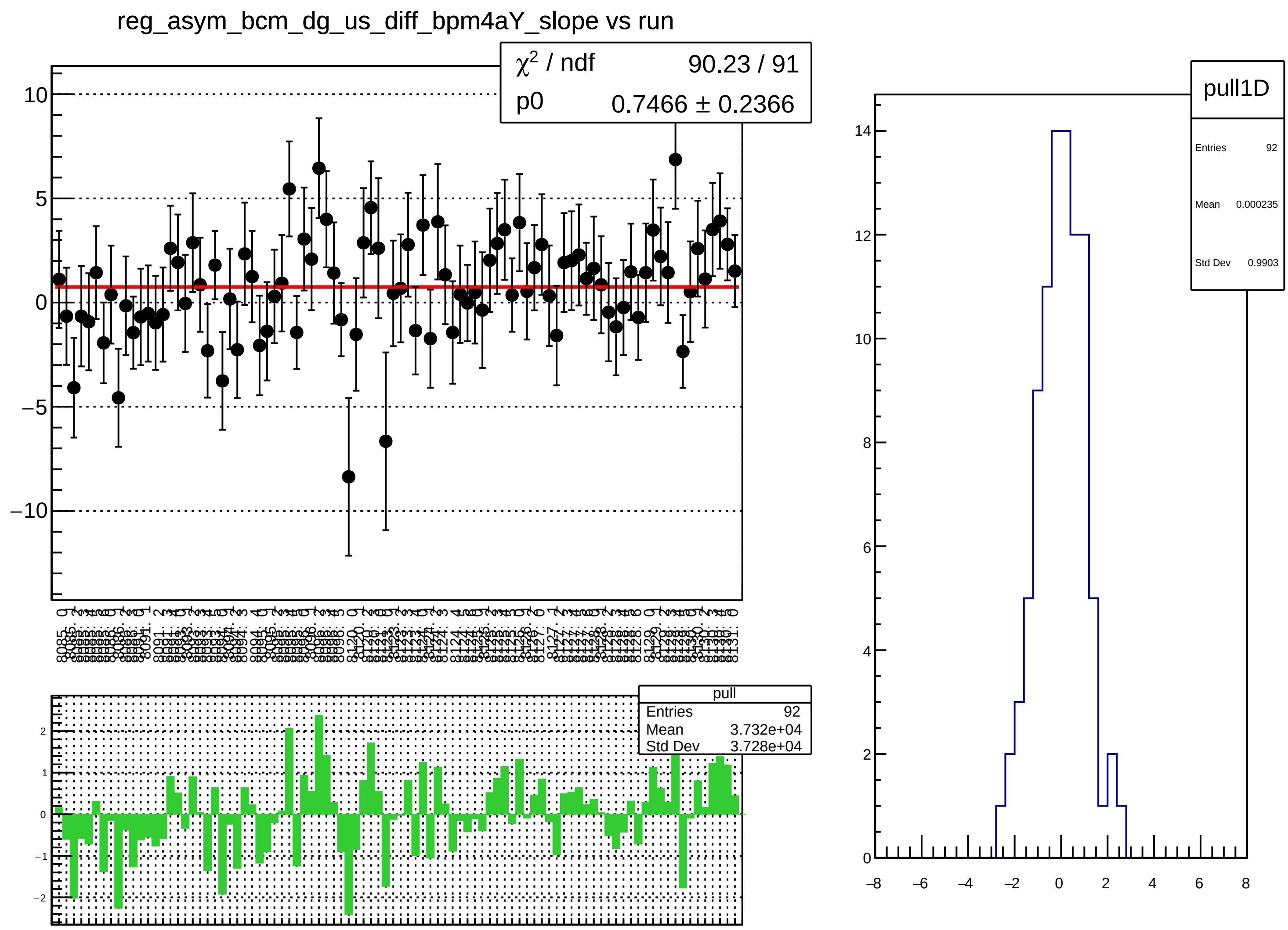

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ2 / ndf 92.66 / 91
p0 −1.151 ± 0.2493
pull
Entries 92
Mean 1862
Std Dev 1815
pull1D
Entries 92
Mean −0.005785
Std Dev 1.004

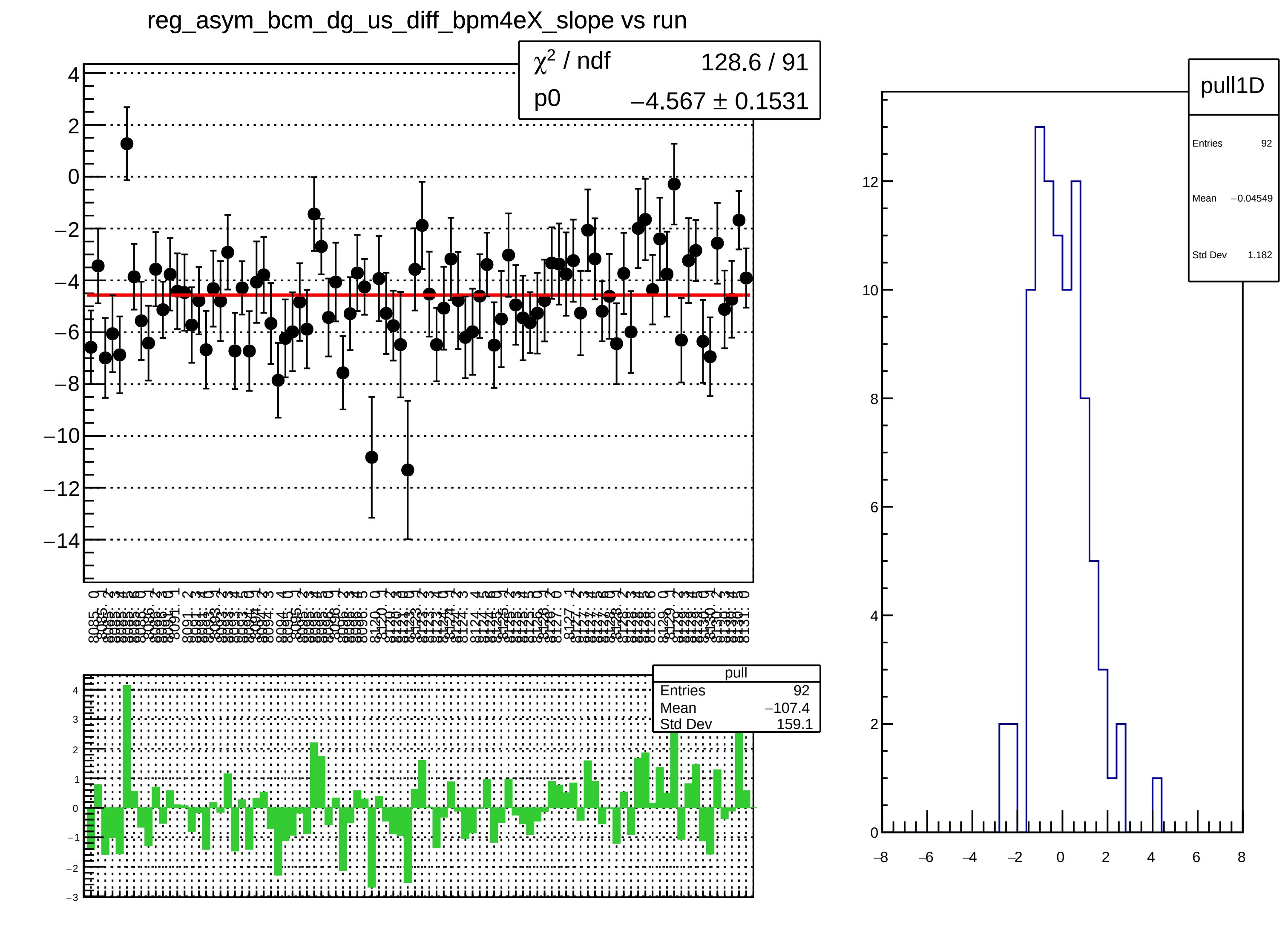


reg_asym_bcm_dg_ds_diff_bpm12X_slope vs run
χ^2 / ndf 128.2 / 91
p0 0.08588 ± 0.009541
pull
Entries 92
Mean −351.6
Std Dev 397.8
pull1D
Entries 92
Mean 0.03233
Std Dev 1.18

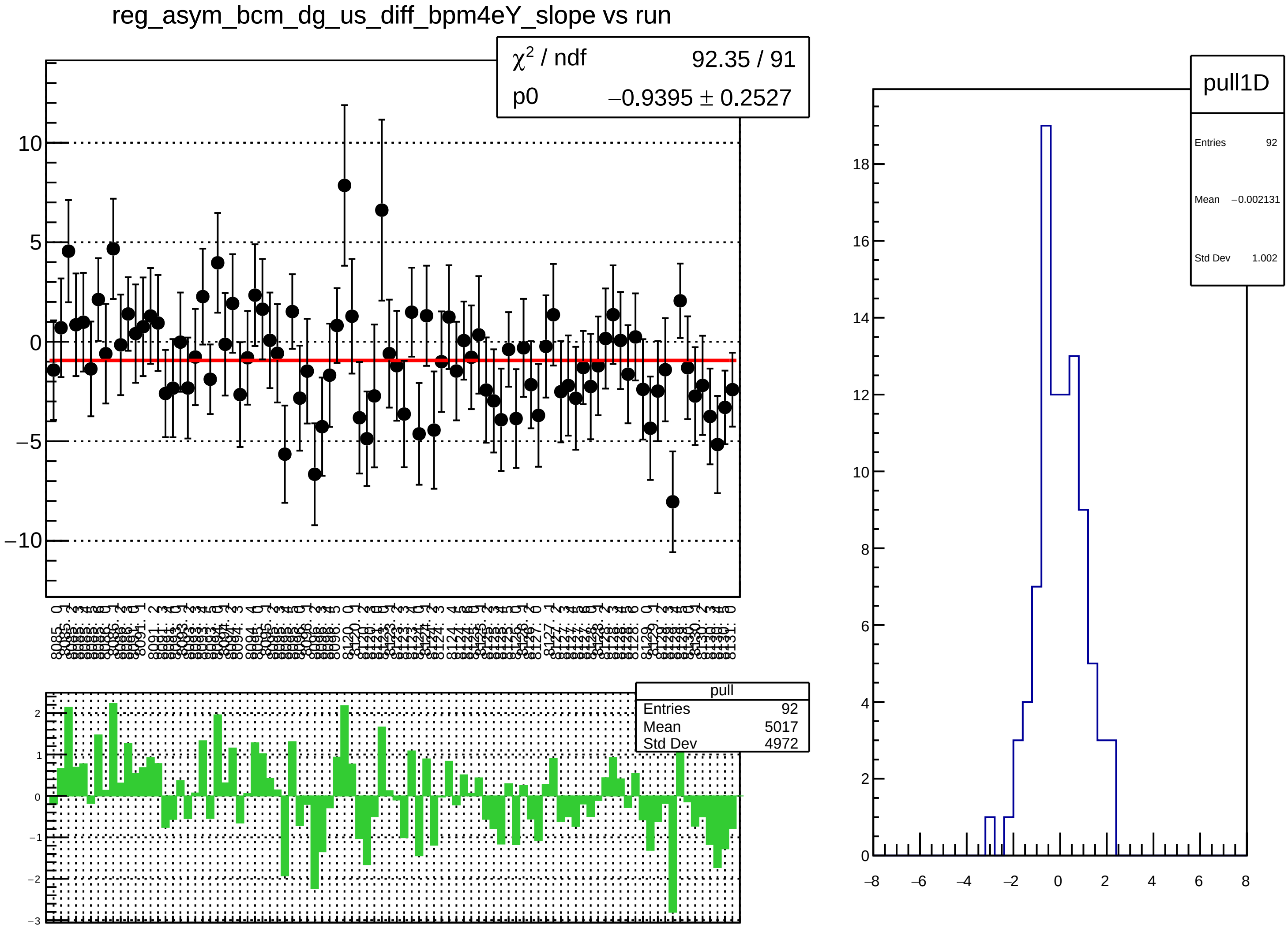


reg_asym_bcm_dg_us_diff_bpm1X_slope vs run
χ^2 / ndf 136.9 / 91
p0 4.982 ± 0.161
pull
Entries 92
Mean −137
Std Dev 188.4
pull1D
Entries 92
Mean 0.04678
Std Dev 1.219

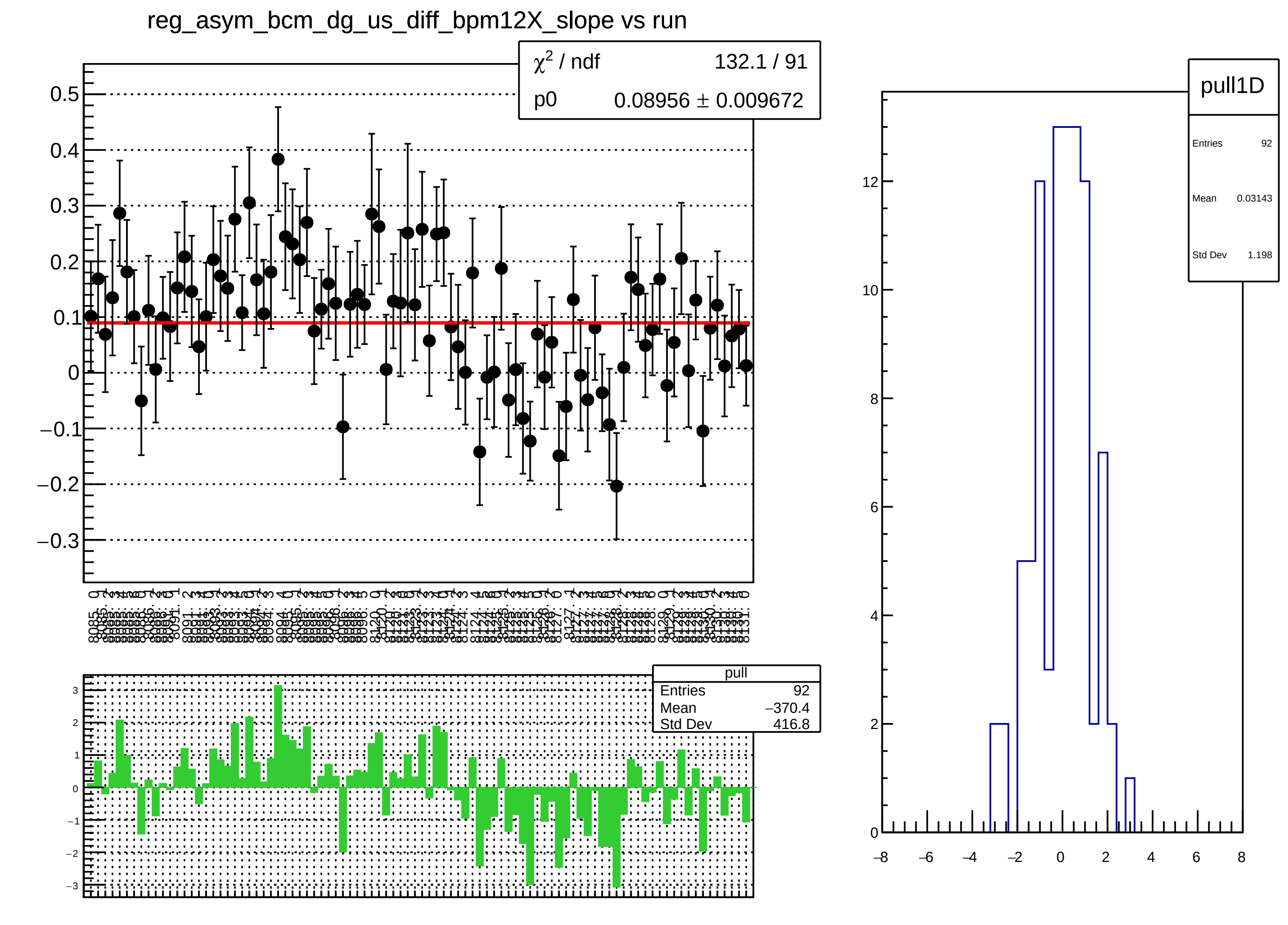

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ^2 / ndf 90.23 / 91
p0 0.7466 ± 0.2366
pull
Entries 92
Mean 3.732e+04
Std Dev 3.728e+04
pull1D
Entries 92
Mean 0.000235
Std Dev 0.9903



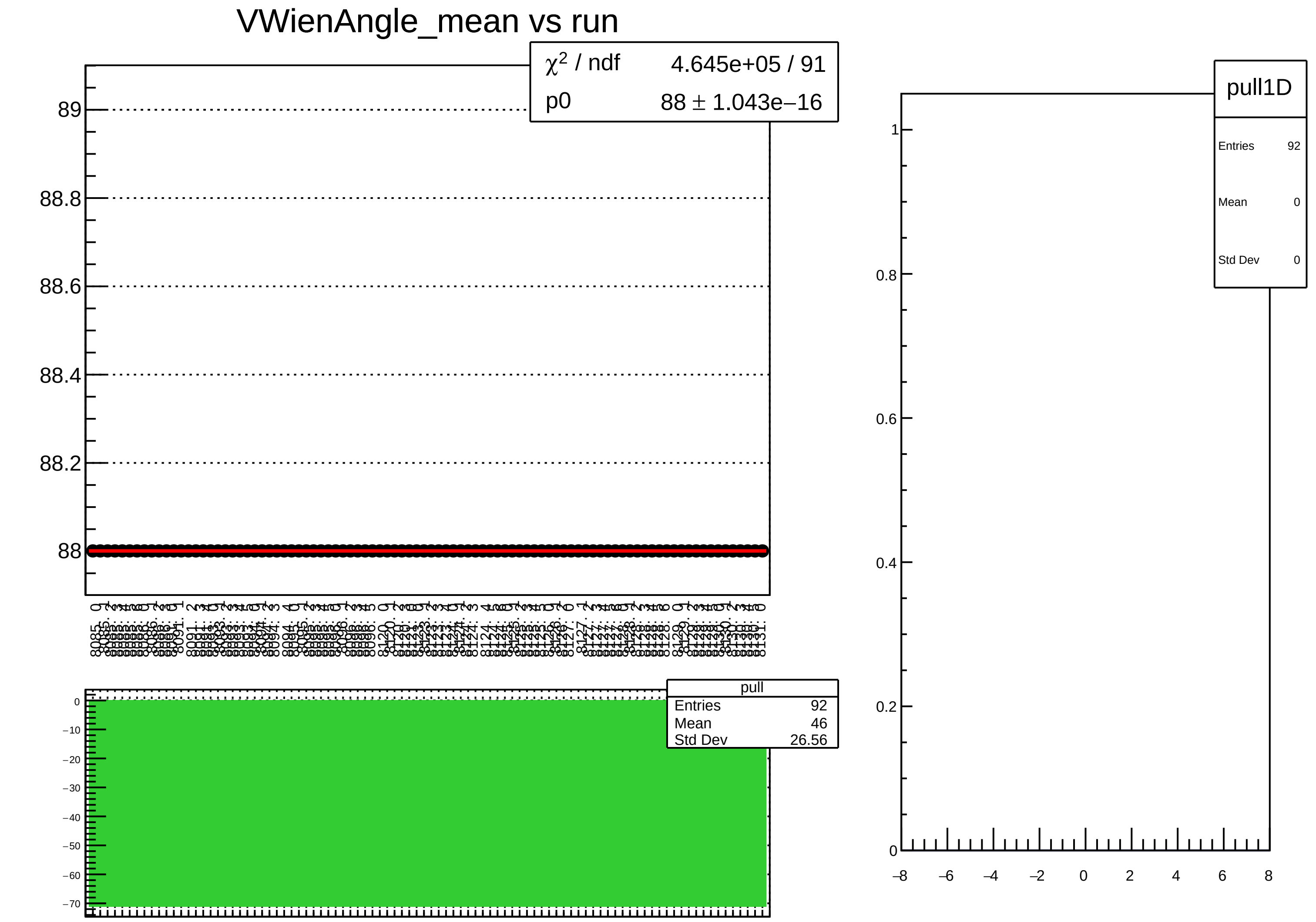
reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ^2 / ndf 128.6 / 91
p0 −4.567 ± 0.1531
pull
Entries 92
Mean −107.4
Std Dev 159.1
pull1D
Entries 92
Mean −0.04549
Std Dev 1.182



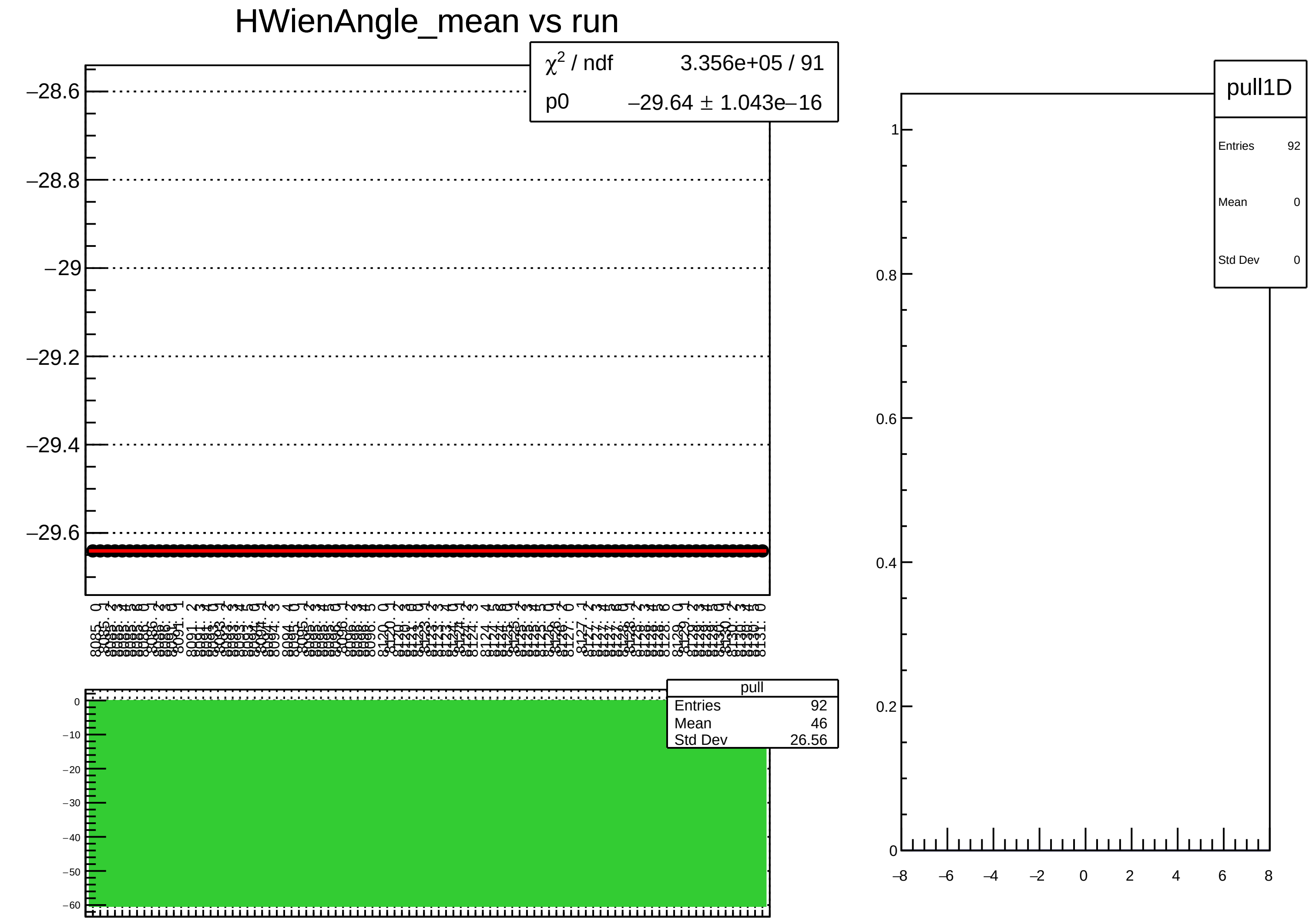
reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ^2 / ndf 92.35 / 91
p0 −0.9395 ± 0.2527
pull
Entries 92
Mean 5017
Std Dev 4972
pull1D
Entries 92
Mean −0.002131
Std Dev 1.002

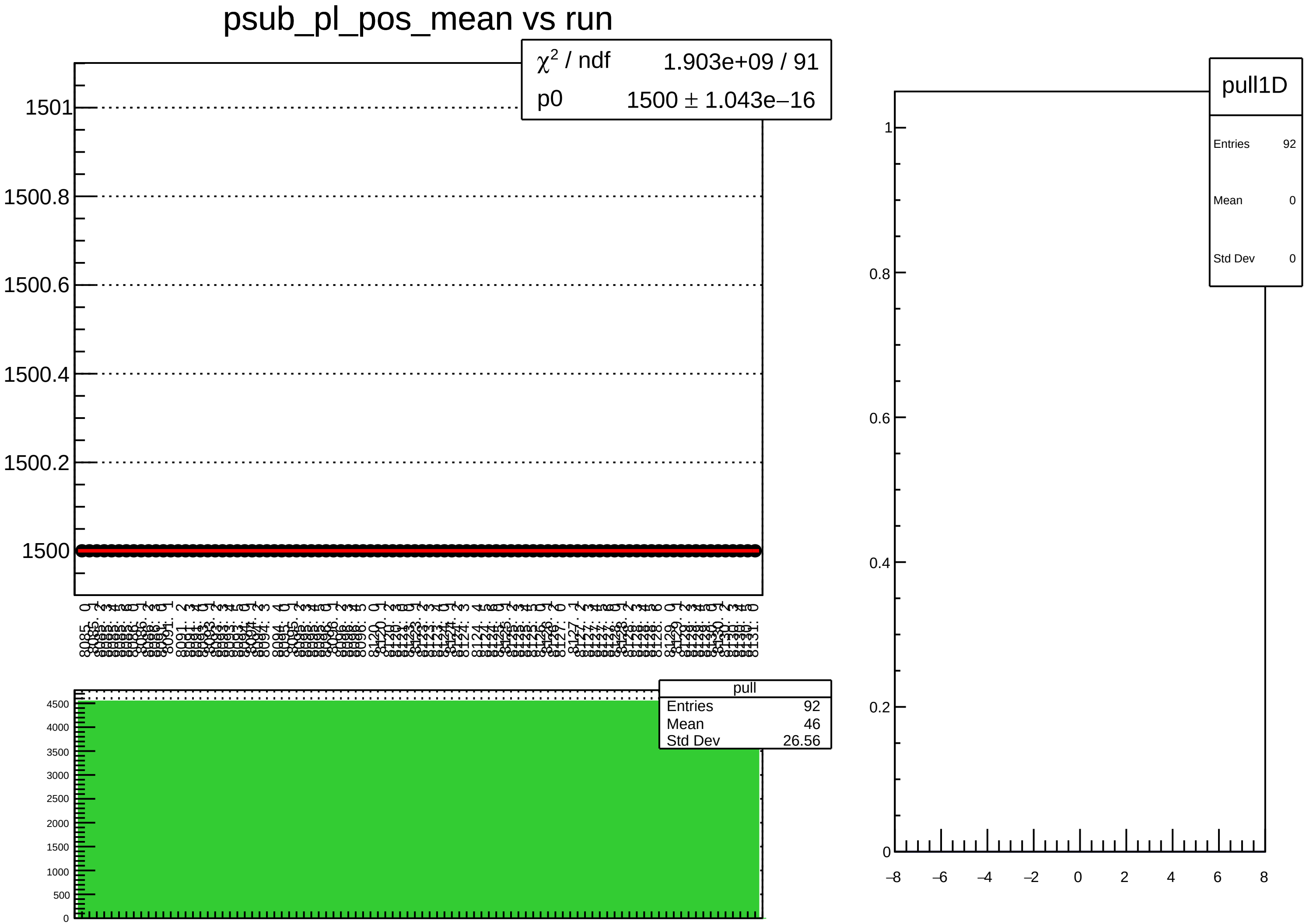


reg_asym_bcm_dg_us_diff_bpm12X_slope vs run
χ^2 / ndf 132.1 / 91
p0 0.08956 ± 0.009672
pull
Entries 92
Mean −370.4
Std Dev 416.8
pull1D
Entries 92
Mean 0.03143
Std Dev 1.198

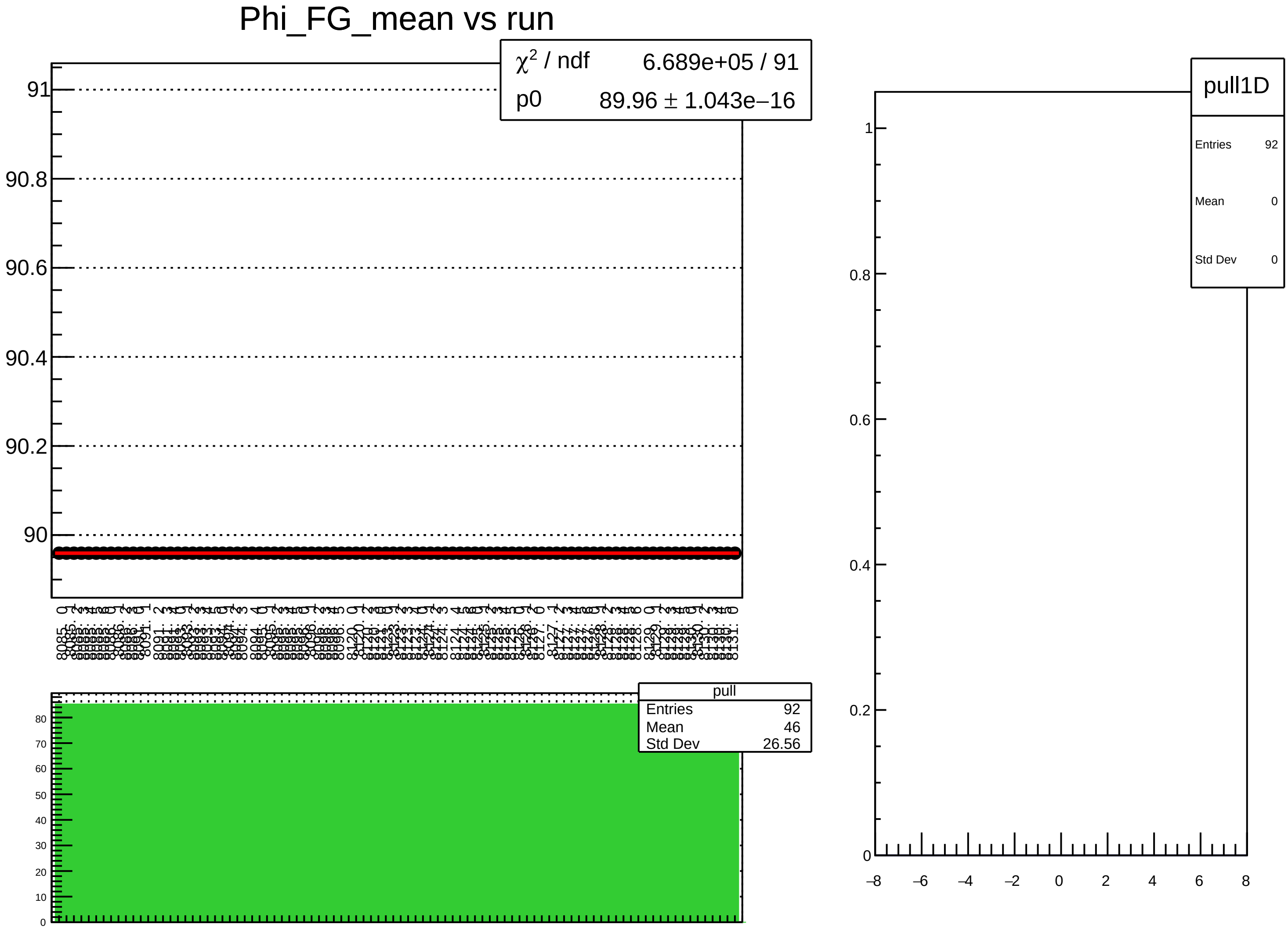


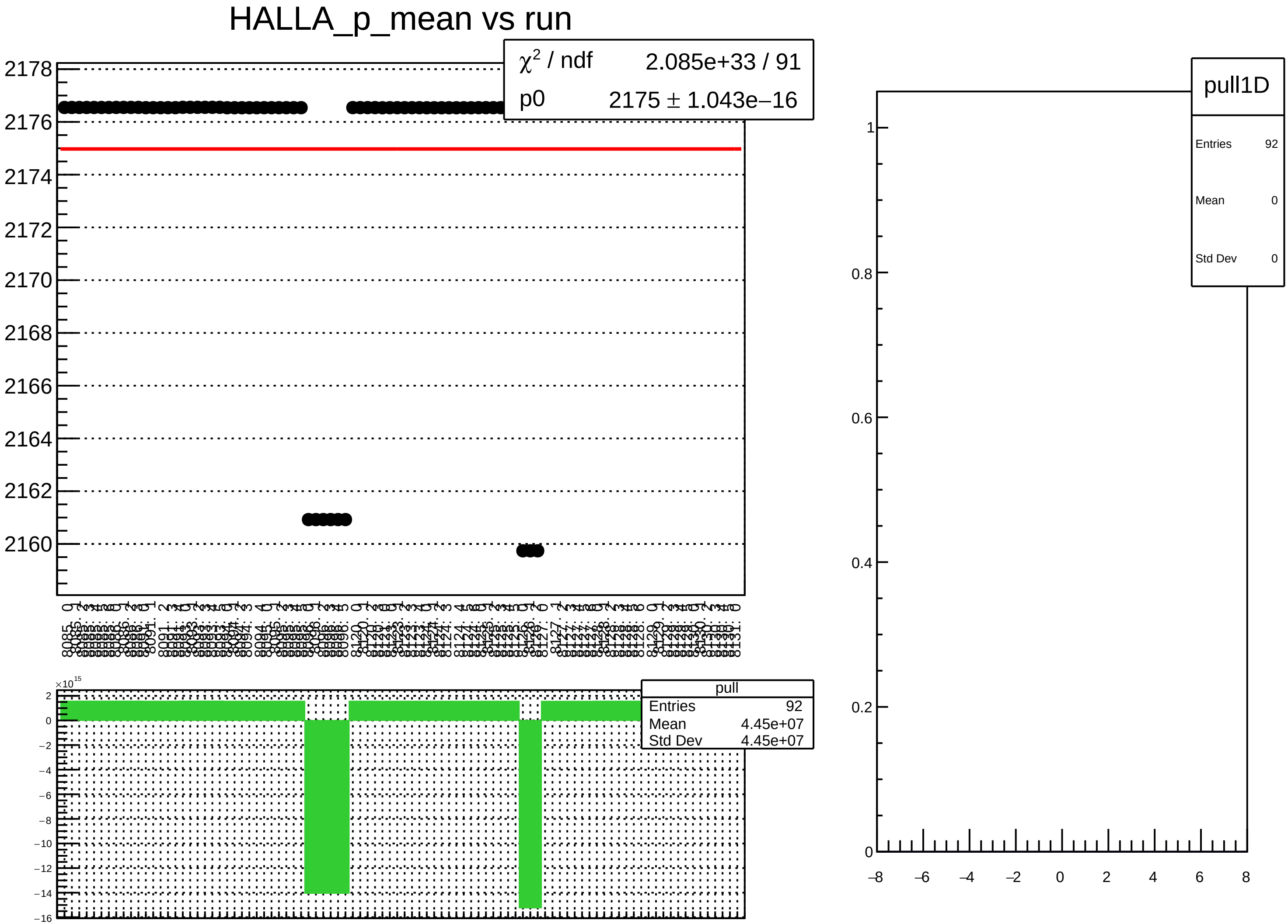
VWienAngle_mean vs run
χ^2 / ndf 4.645e+05 / 91
p0 88 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0
Std Dev 0


HWienAngle_mean vs run
χ^2 / ndf 3.356e+05 / 91
p0 −29.64 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0
Std Dev 0

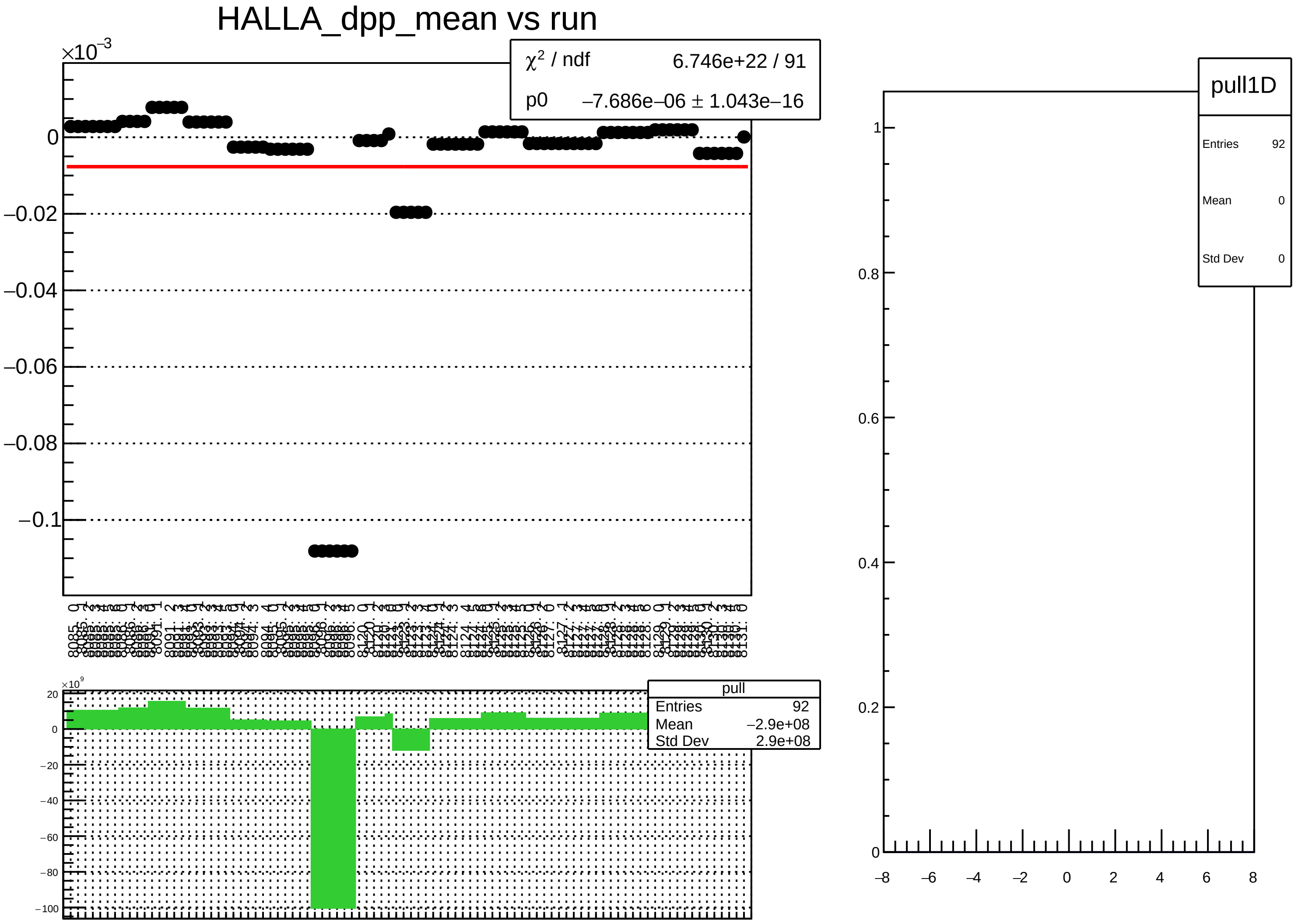


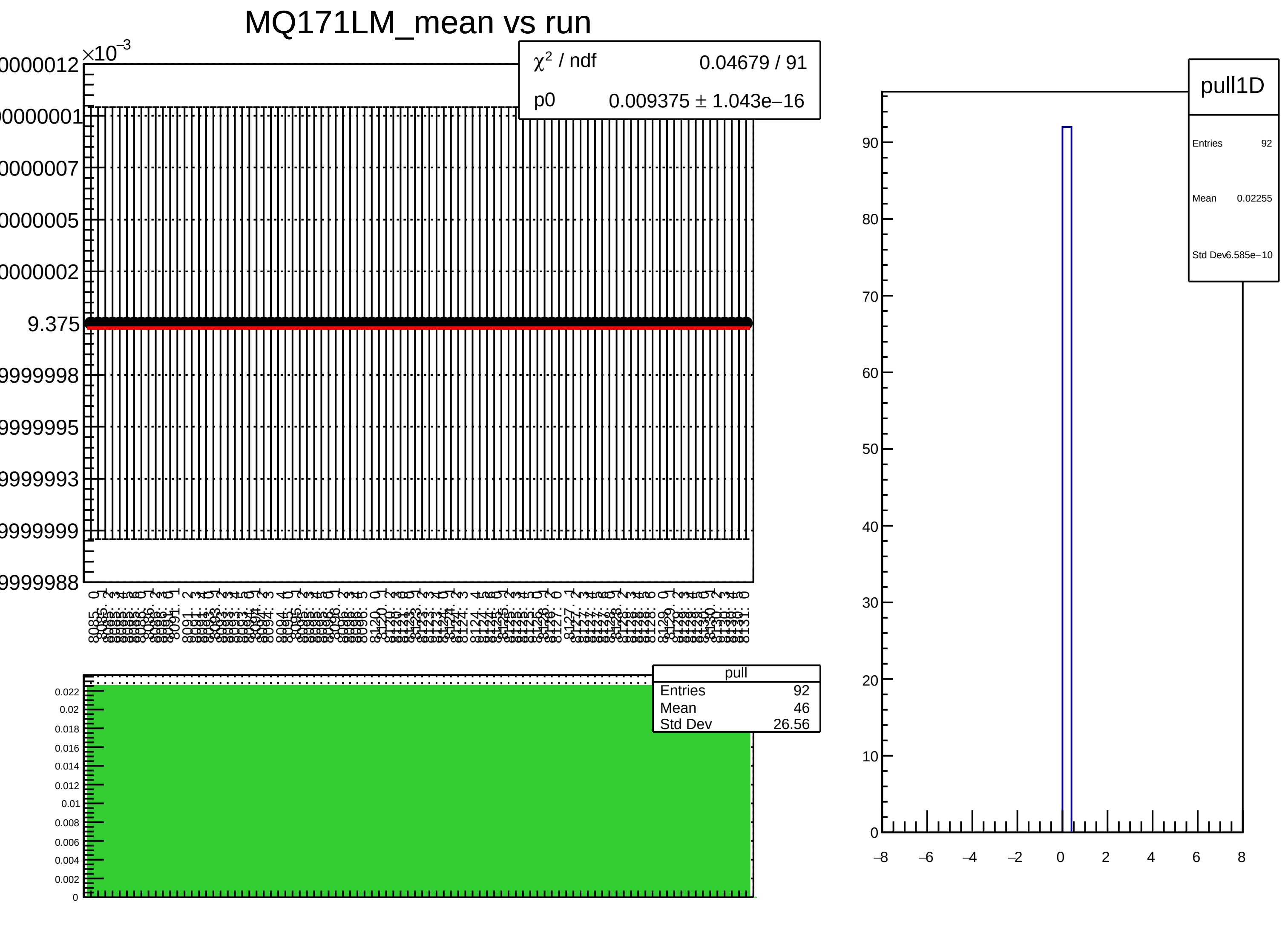
psub_pl_pos_mean vs run
χ2 / ndf 1.903e+09 / 91
p0 1500 ± 1.043e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 92
Mean 46
Std Dev 26.56
4500
4000
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


Phi_FG_mean vs run
χ2 / ndf 6.689e+05 / 91
p0 89.96 ± 1.043e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 92
Mean 46
Std Dev 26.56
80
70
60
50
40
30
20
10
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

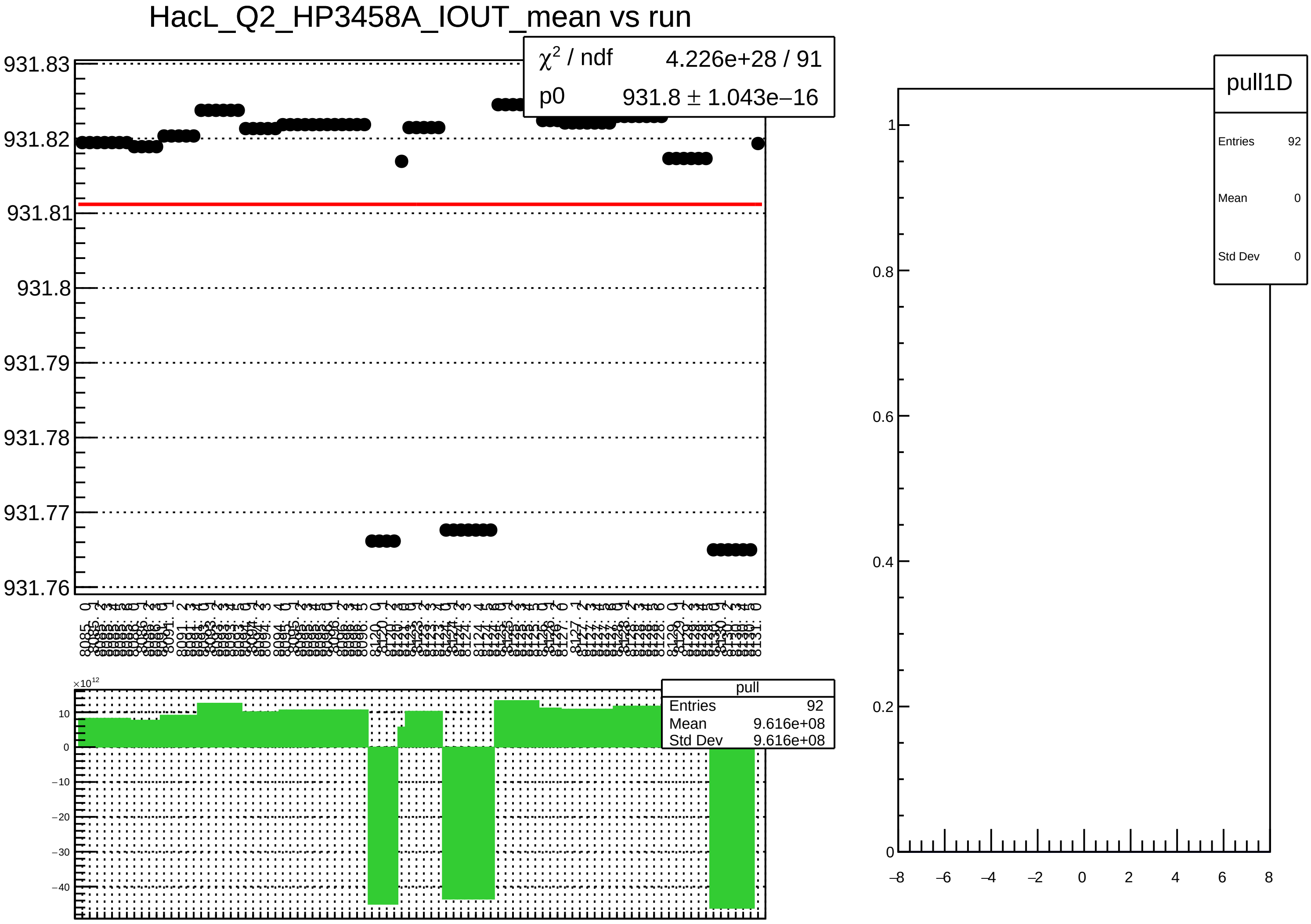


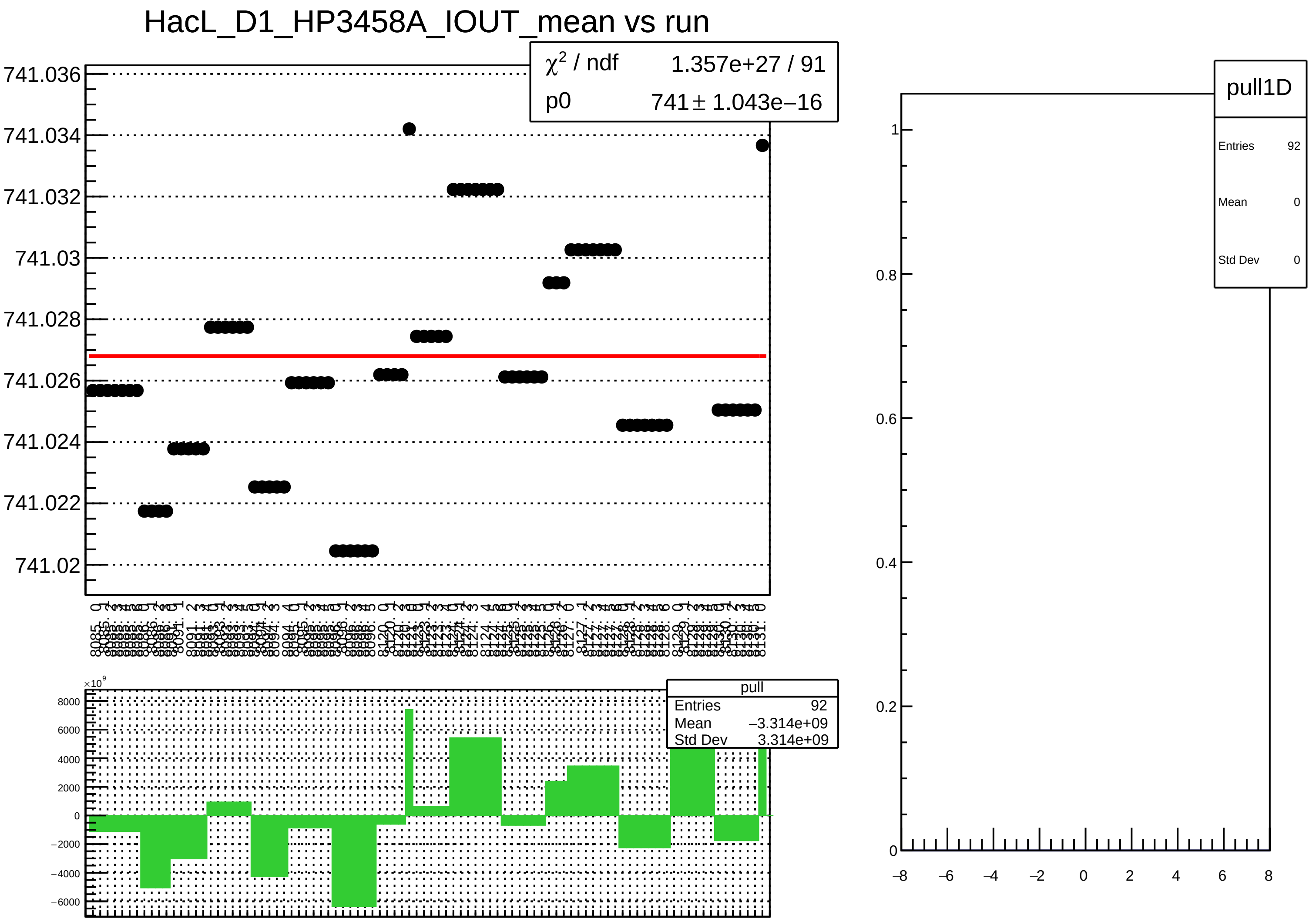
HALLA_p_mean vs run
χ2 / ndf 2.085e+33 / 91
p0 2175 ± 1.043e−16
pull
Entries 92
Mean 4.45e+07
Std Dev 4.45e+07
pull1D
Entries 92
Mean 0
Std Dev 0


HALLA_dpp_mean vs run
×10^-3
χ2 / ndf 6.746e+22 / 91
p0 −7.686e−06 ± 1.043e−16
0
−0.02
−0.04
−0.06
−0.08
−0.1
×10^9
20
0
−20
−40
−60
−80
−100
pull
Entries 92
Mean −2.9e+08
Std Dev 2.9e+08
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

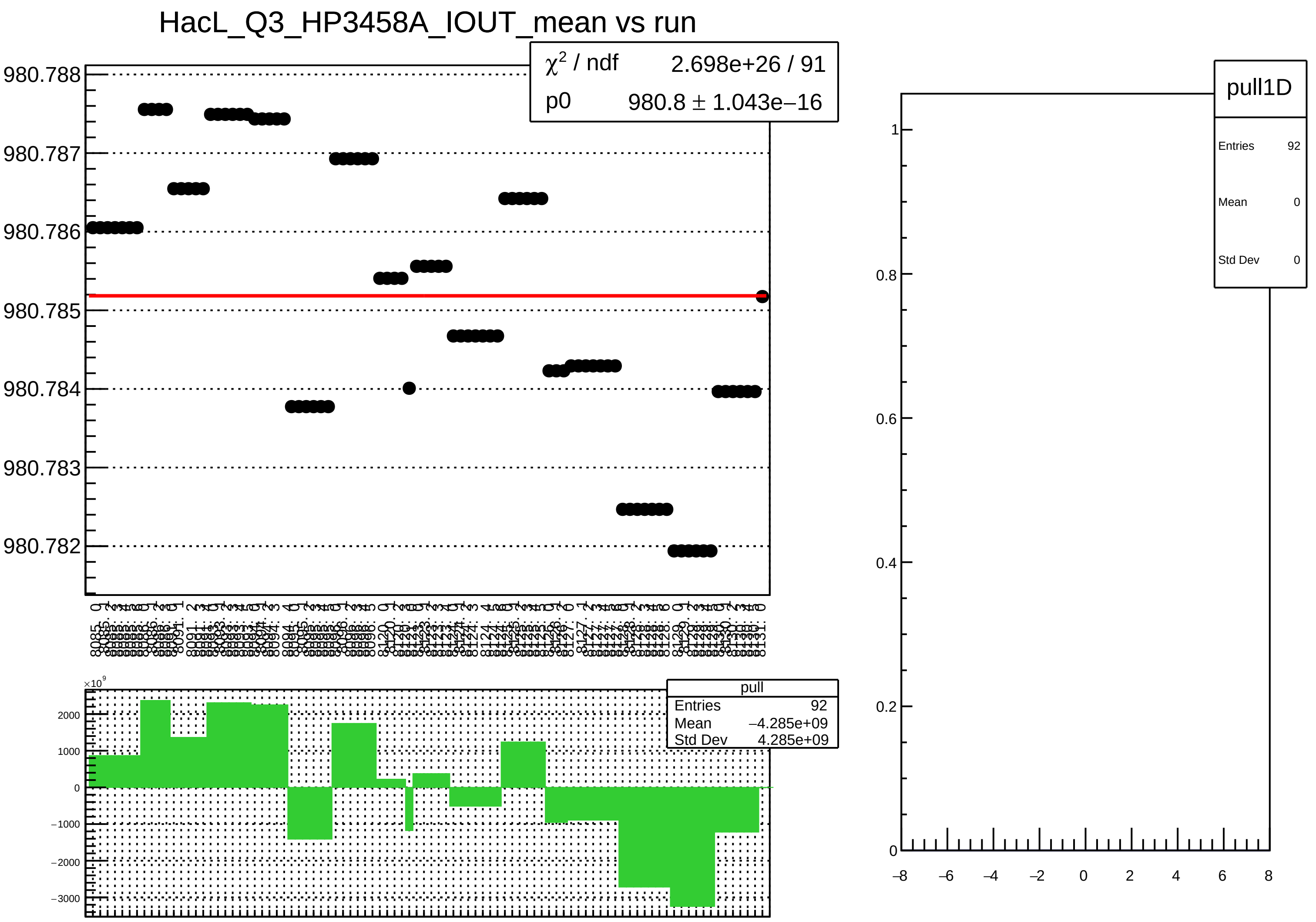


MQ171LM_mean vs run
χ^2 / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
9.375
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 6.585e−10

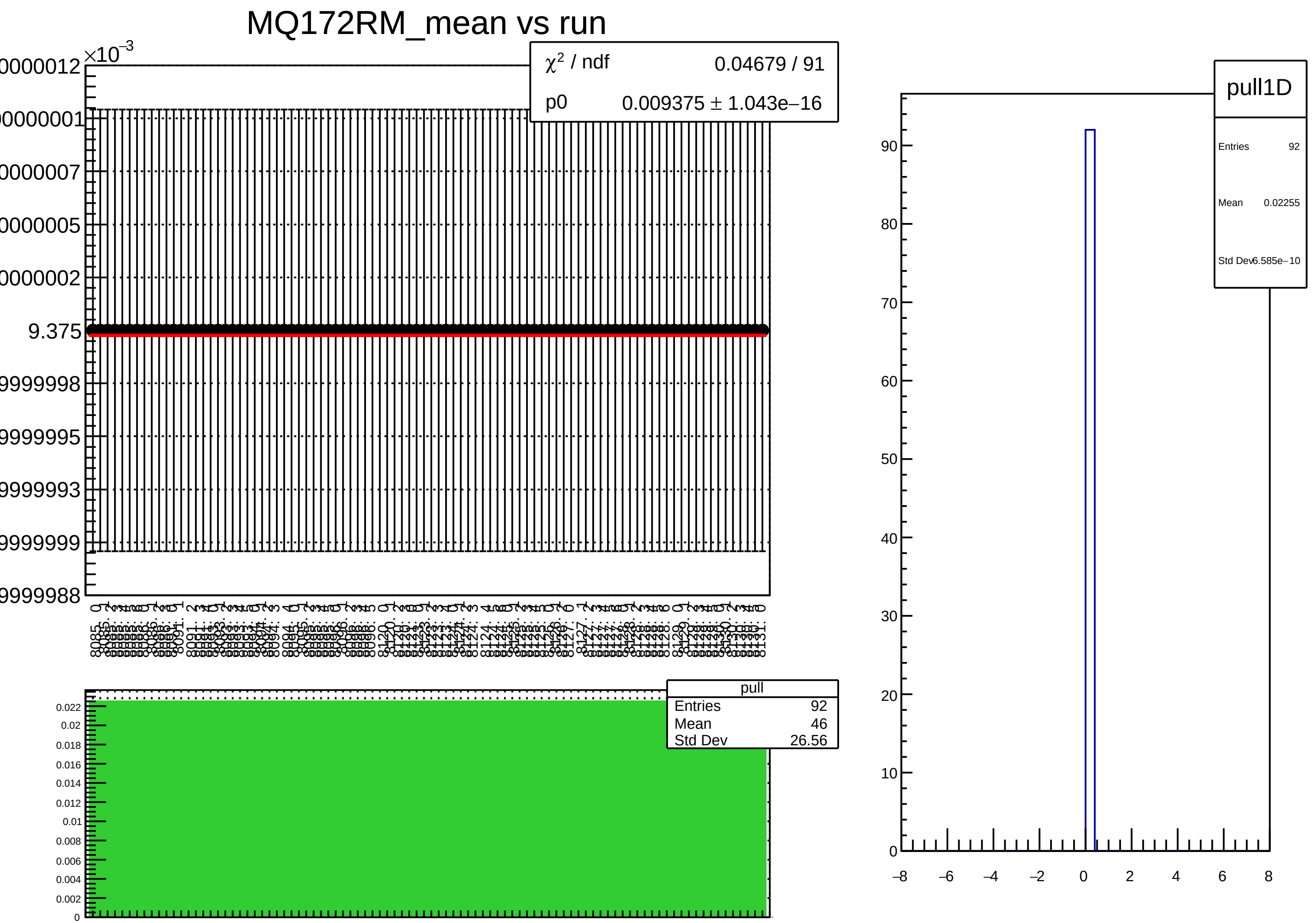

HacL_Q2_HP3458A_IOUT_mean vs run
χ2 / ndf 4.226e+28 / 91
p0 931.8 ± 1.043e−16
931.83
931.82
931.81
931.8
931.79
931.78
931.77
931.76
×10^12
10
0
−10
−20
−30
−40
pull
Entries 92
Mean 9.616e+08
Std Dev 9.616e+08
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

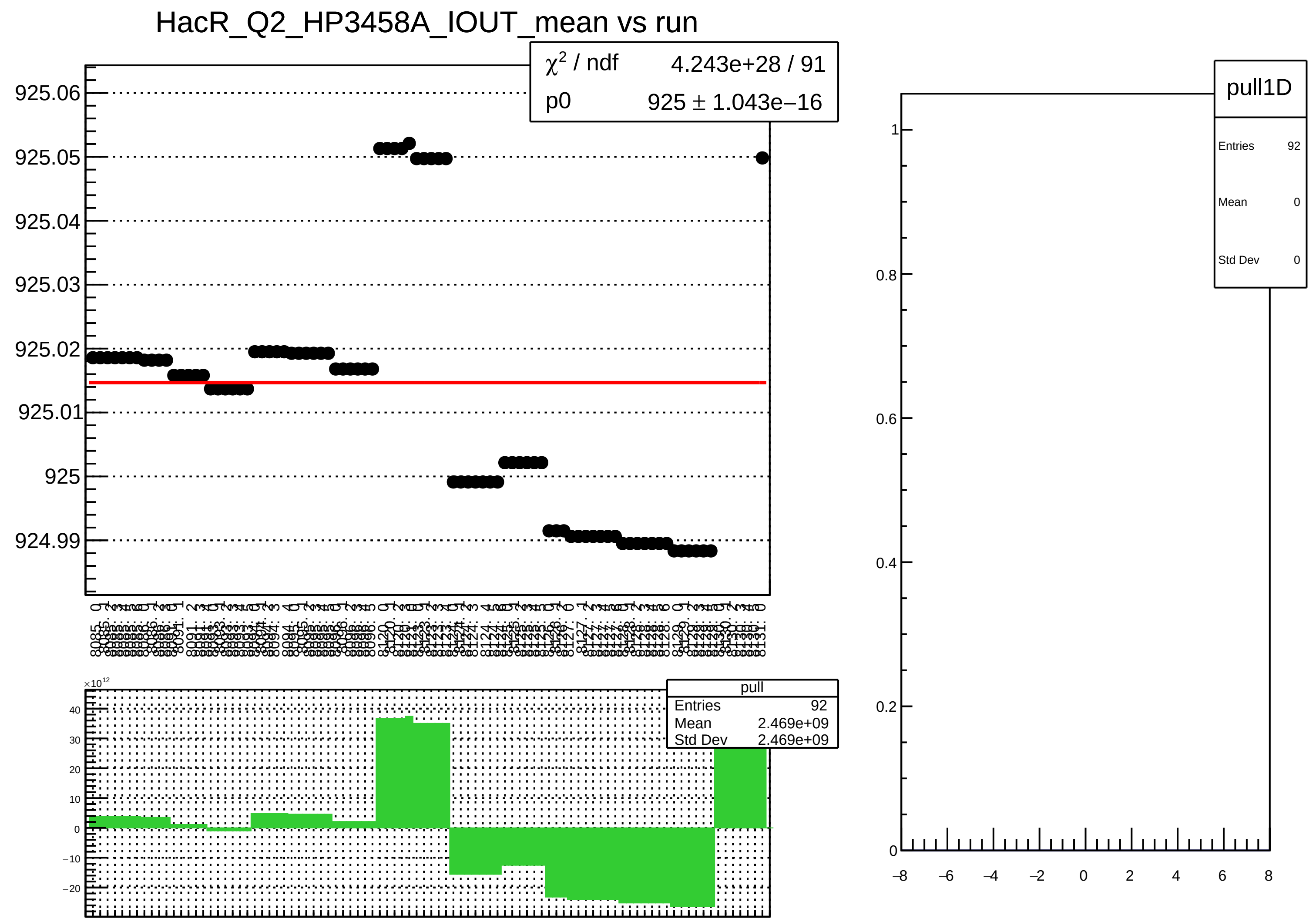


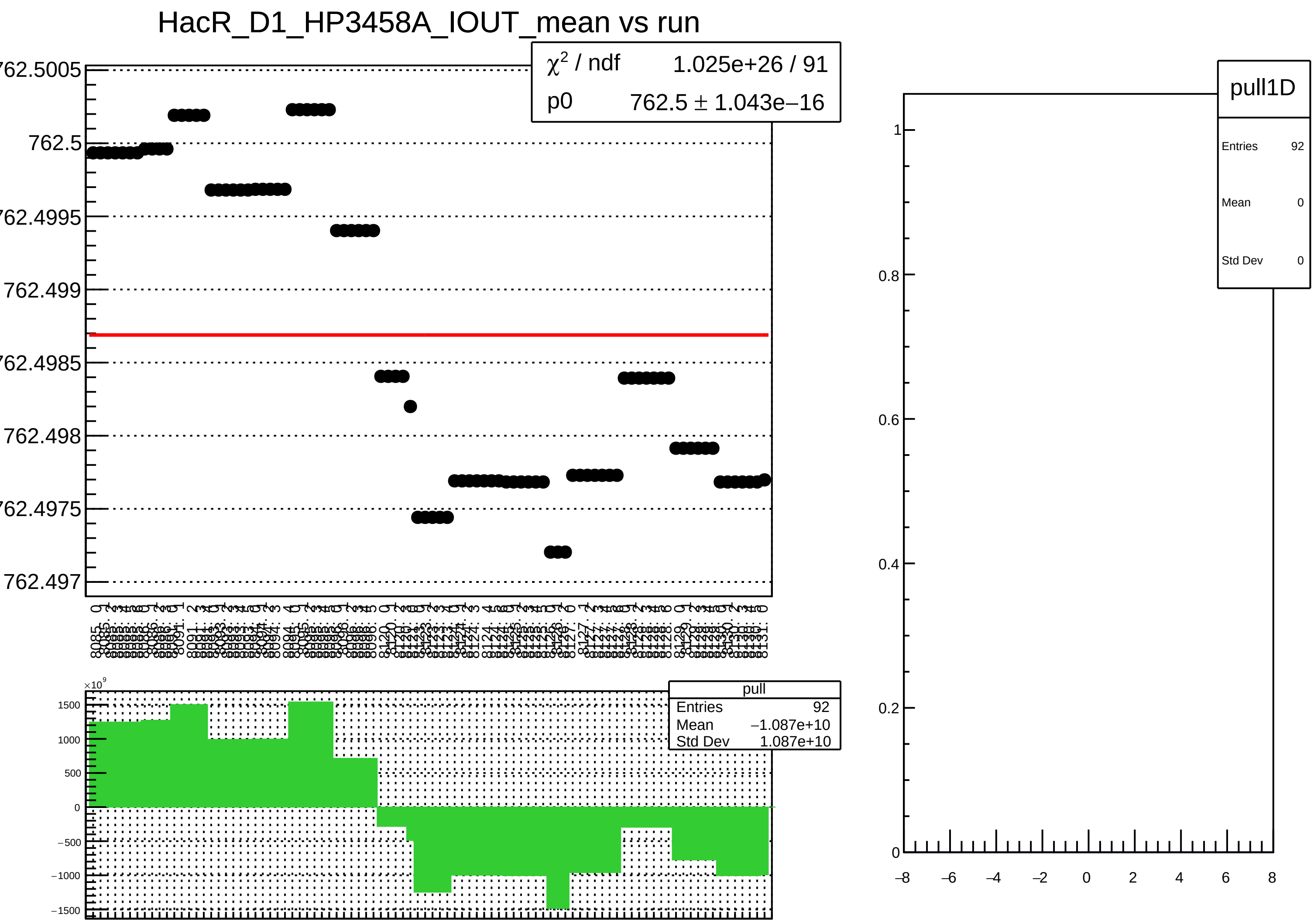
HacL_D1_HP3458A_IOUT_mean vs run
χ2 / ndf 1.357e+27 / 91
p0 741 ± 1.043e−16
741.036
741.034
741.032
741.03
741.028
741.026
741.024
741.022
741.02
pull
Entries 92
Mean −3.314e+09
Std Dev 3.314e+09
×10^9
8000
6000
4000
2000
0
−2000
−4000
−6000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8 −6 −4 −2 0 2 4 6 8

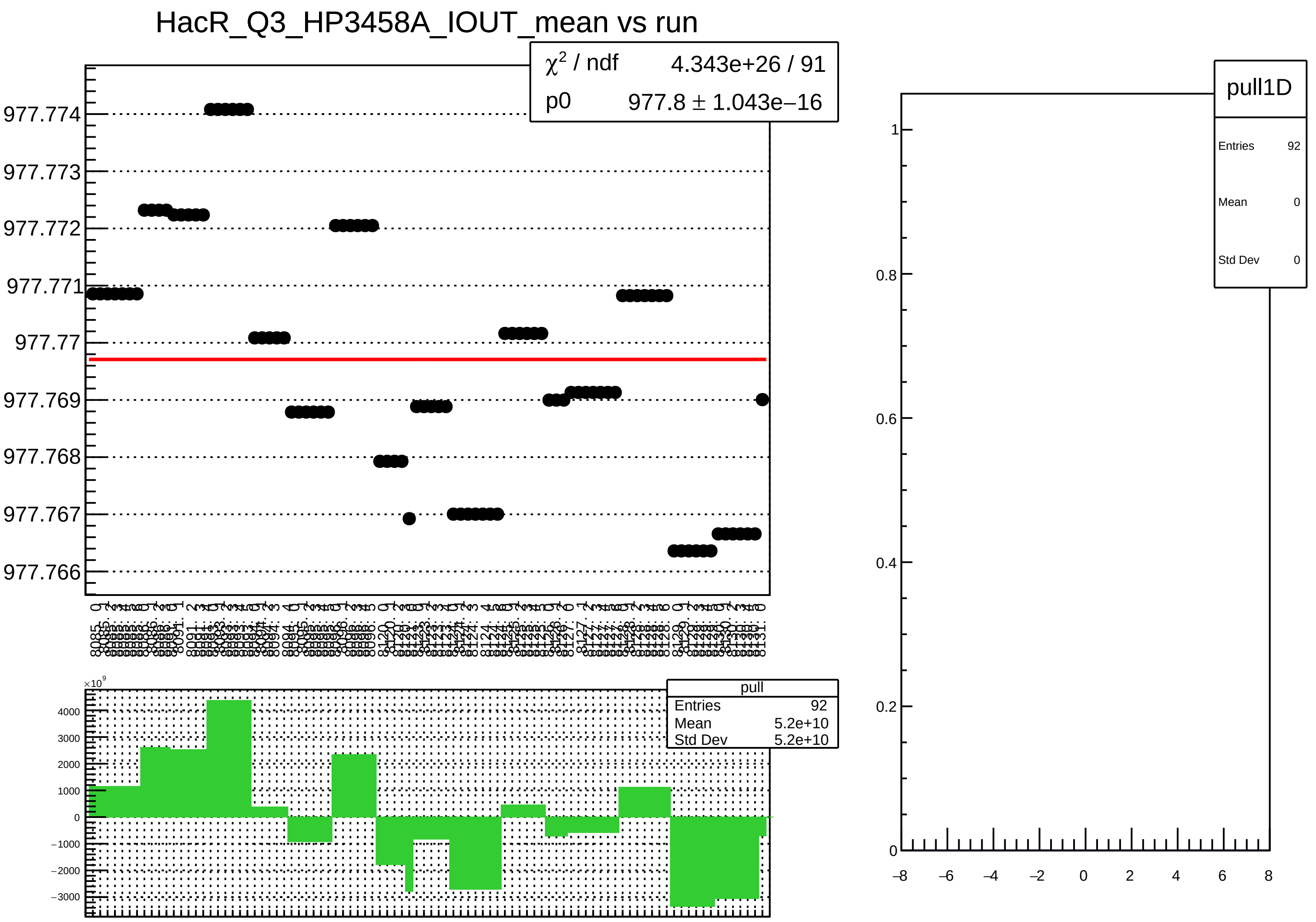


HacL_Q3_HP3458A_IOUT_mean vs run
χ^2 / ndf 2.698e+26 / 91
p0 980.8 ± 1.043e−16
980.788
980.787
980.786
980.785
980.784
980.783
980.782
pull
Entries 92
Mean −4.285e+09
Std Dev 4.285e+09
$\times10^9$
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

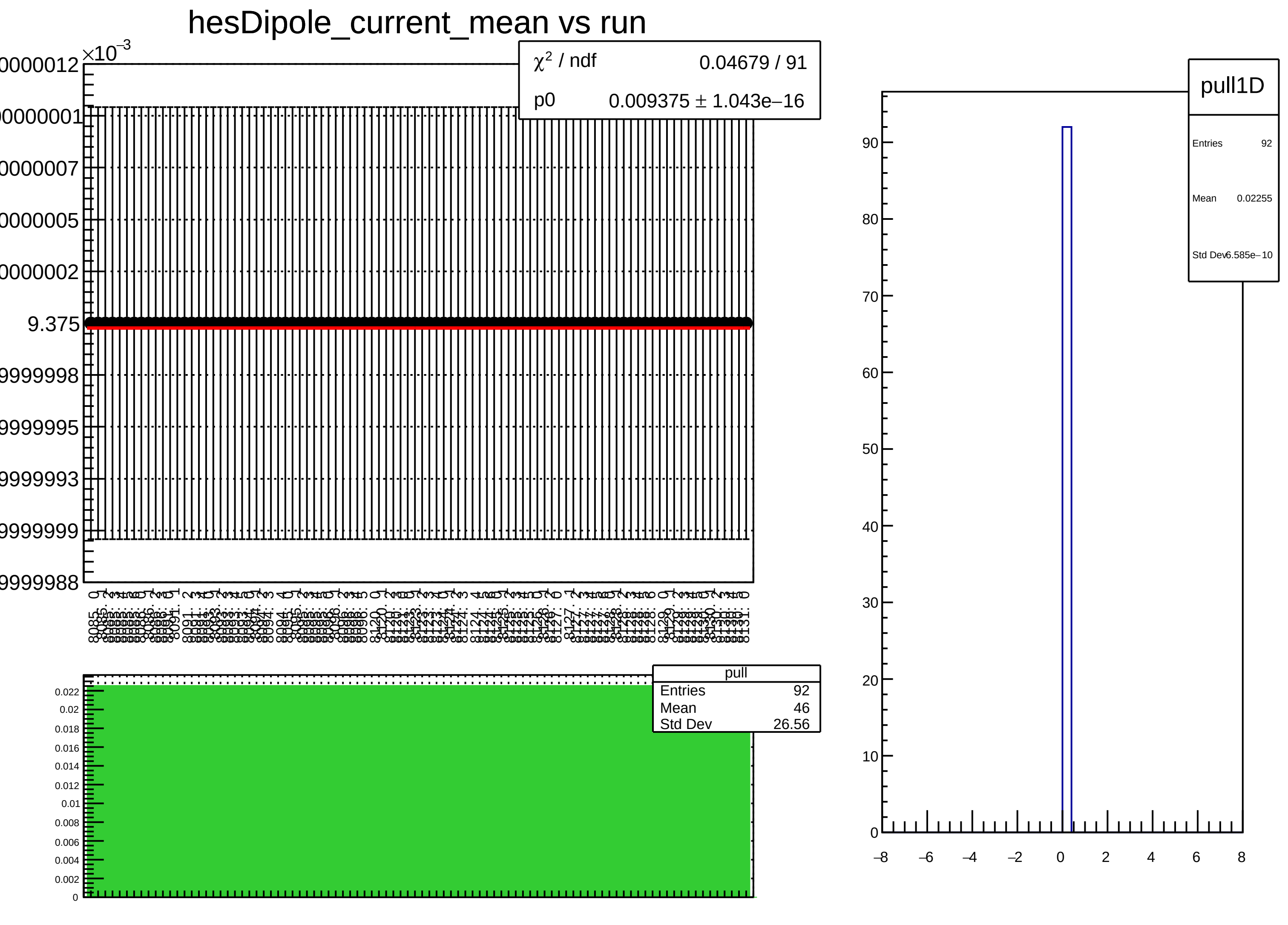

MQ172RM_mean vs run
χ^2 / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 6.585e−10


HacR_Q2_HP3458A_IOUT_mean vs run
χ2 / ndf 4.243e+28 / 91
p0 925 ± 1.043e−16
925.06
925.05
925.04
925.03
925.02
925.01
925
924.99
pull
Entries 92
Mean 2.469e+09
Std Dev 2.469e+09
×10^12
40
30
20
10
0
−10
−20
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

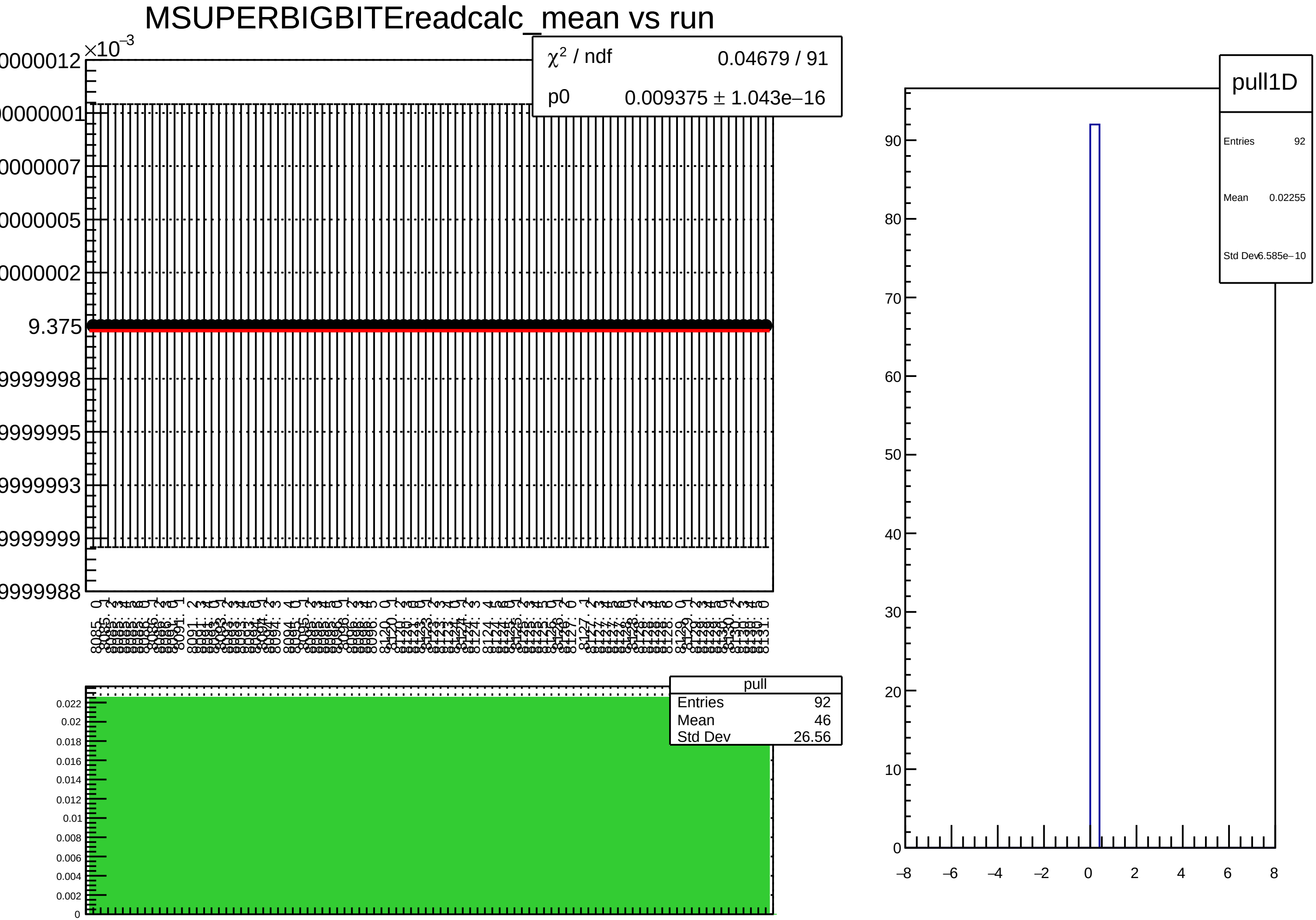

HacR_D1_HP3458A_IOUT_mean vs run
χ2 / ndf 1.025e+26 / 91
p0 762.5 ± 1.043e−16
762.5005
762.5
762.4995
762.499
762.4985
762.498
762.4975
762.497
×10^9
1500
1000
500
0
−500
−1000
−1500
pull
Entries 92
Mean −1.087e+10
Std Dev 1.087e+10
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

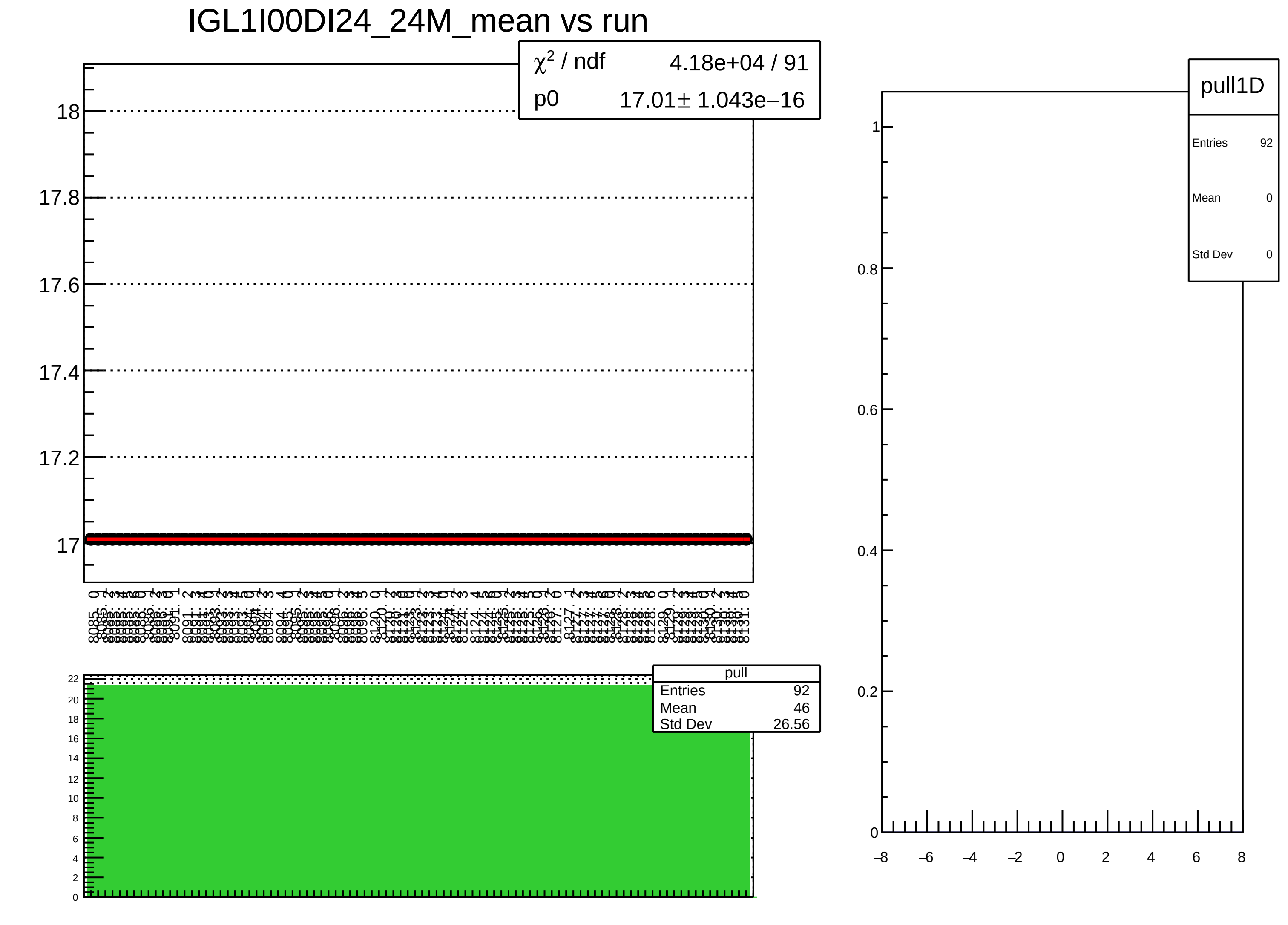


HacR_Q3_HP3458A_IOUT_mean vs run
χ^2 / ndf 4.343e+26 / 91
p0 977.8 ± 1.043e−16
977.774
977.773
977.772
977.771
977.77
977.769
977.768
977.767
977.766
pull
Entries 92
Mean 5.2e+10
Std Dev 5.2e+10
×10^9
4000
3000
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

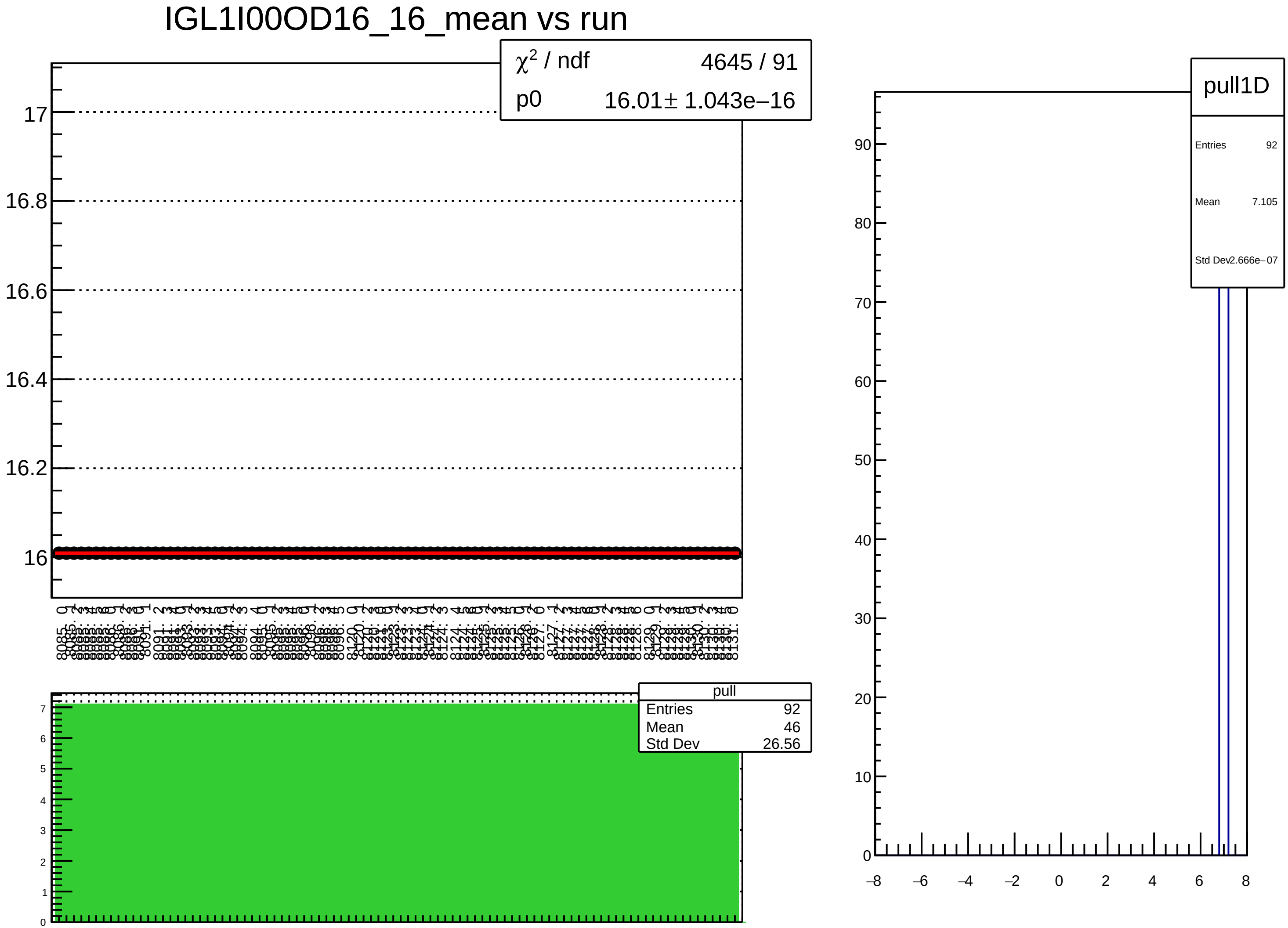


hesDipole_current_mean vs run
χ^2 / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 6.585e−10

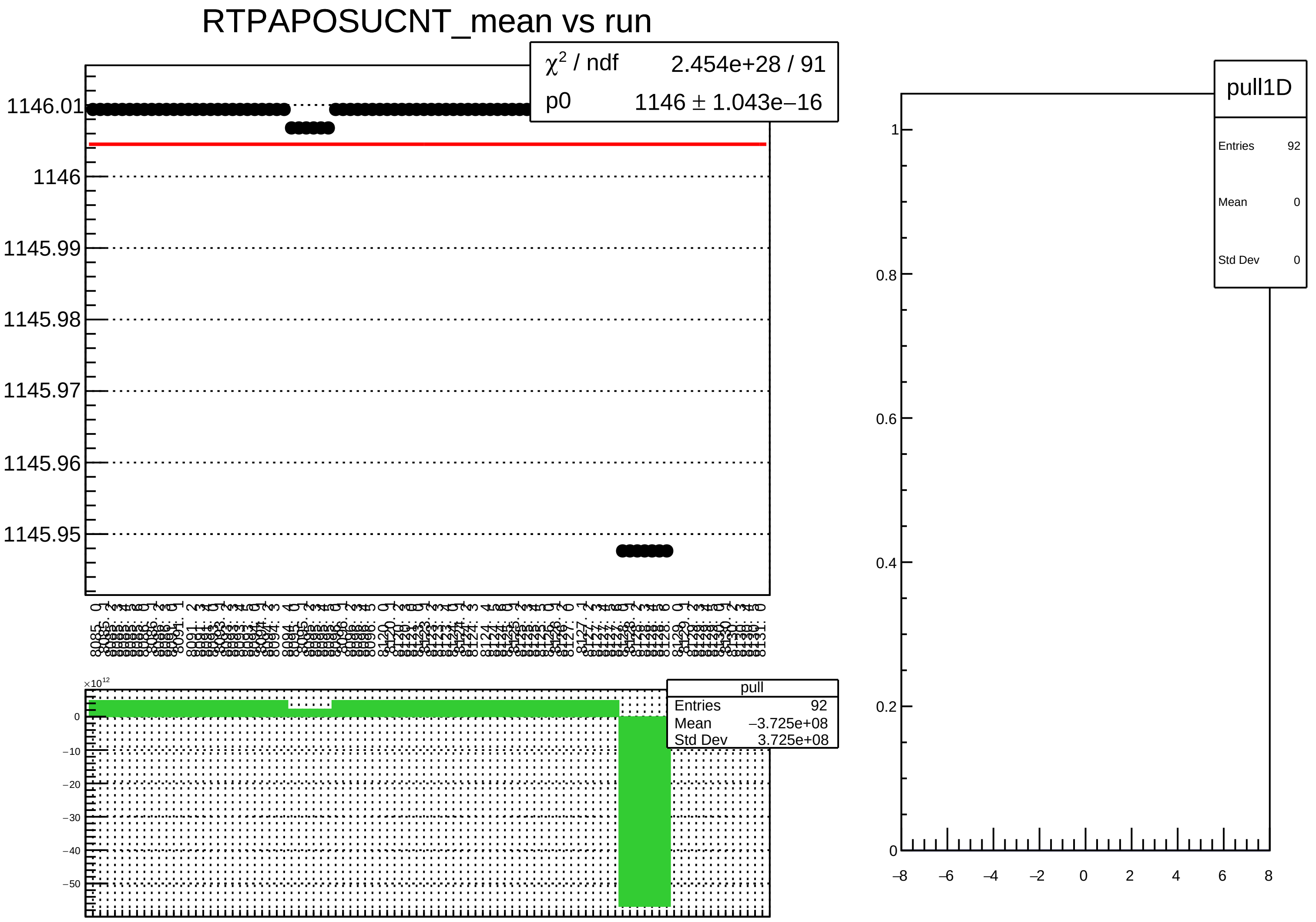

MSUPERBIGBITEreadcalc_mean vs run
×10^-3
9.375
χ2 / ndf 0.04679 / 91
p0 0.009375 ± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 0.02255
Std Dev 6.585e−10

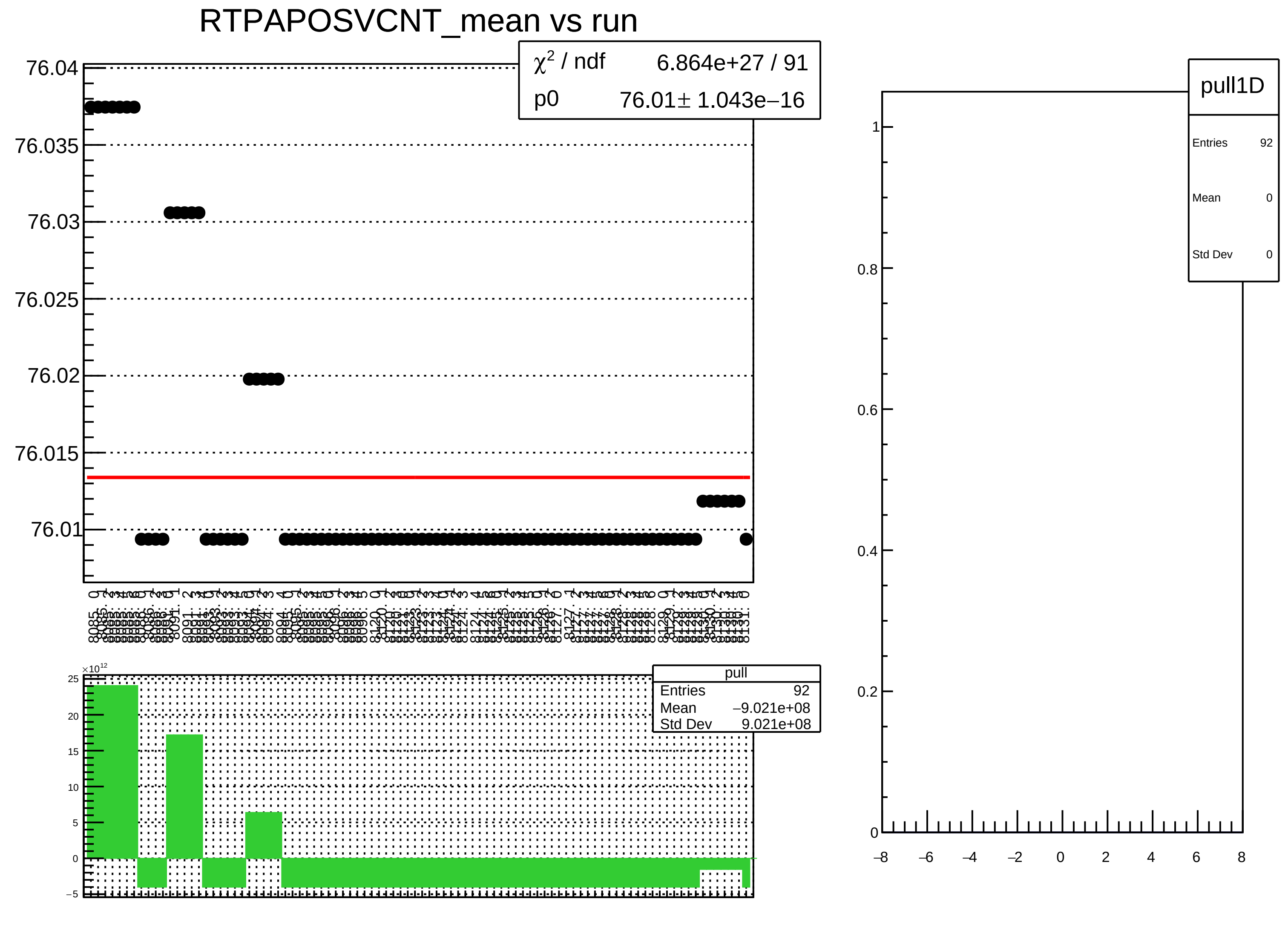


IGL1I00DI24_24M_mean vs run
χ2 / ndf 4.18e+04 / 91
p0 17.01± 1.043e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 92
Mean 46
Std Dev 26.56
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8



IGL1I00OD16_16_mean vs run
χ2 / ndf 4645 / 91
p0 16.01± 1.043e−16
pull
Entries 92
Mean 46
Std Dev 26.56
pull1D
Entries 92
Mean 7.105
Std Dev 2.666e−07


RTPAPOSUCNT_mean vs run
χ^2 / ndf 2.454e+28 / 91
p0 1146 ± 1.043e−16
1146.01
1146
1145.99
1145.98
1145.97
1145.96
1145.95
×10^12
0
−10
−20
−30
−40
−50
pull
Entries 92
Mean −3.725e+08
Std Dev 3.725e+08
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


RTPAPOSVCNT_mean vs run
χ^2 / ndf 6.864e+27 / 91
p0 76.01 ± 1.043e−16
76.04
76.035
76.03
76.025
76.02
76.015
76.01
pull
Entries 92
Mean −9.021e+08
Std Dev 9.021e+08
×10^12
25
20
15
10
5
0
−5
pull1D
Entries 92
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8