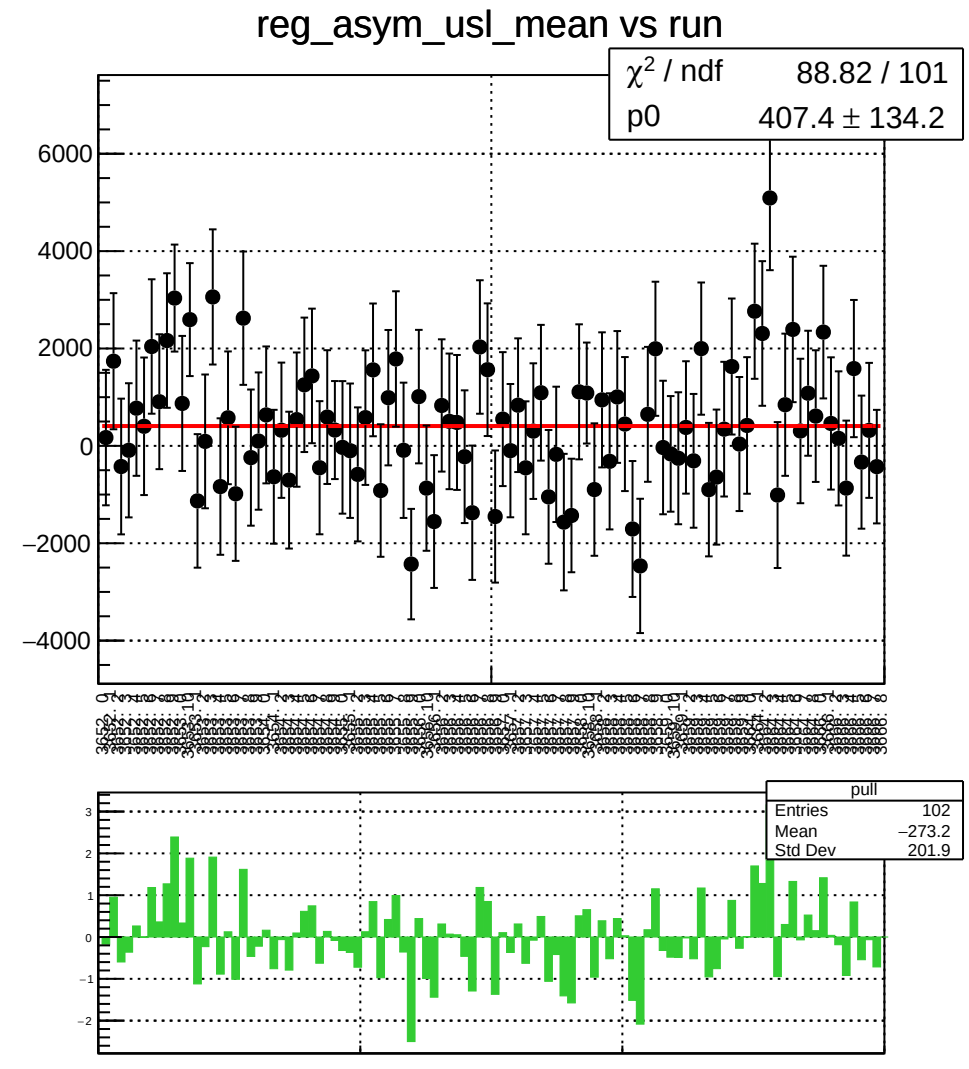
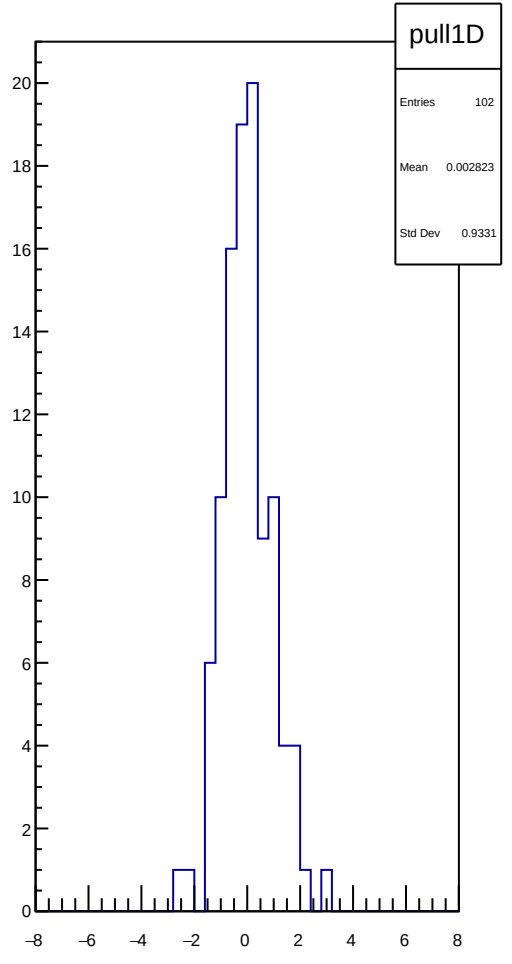
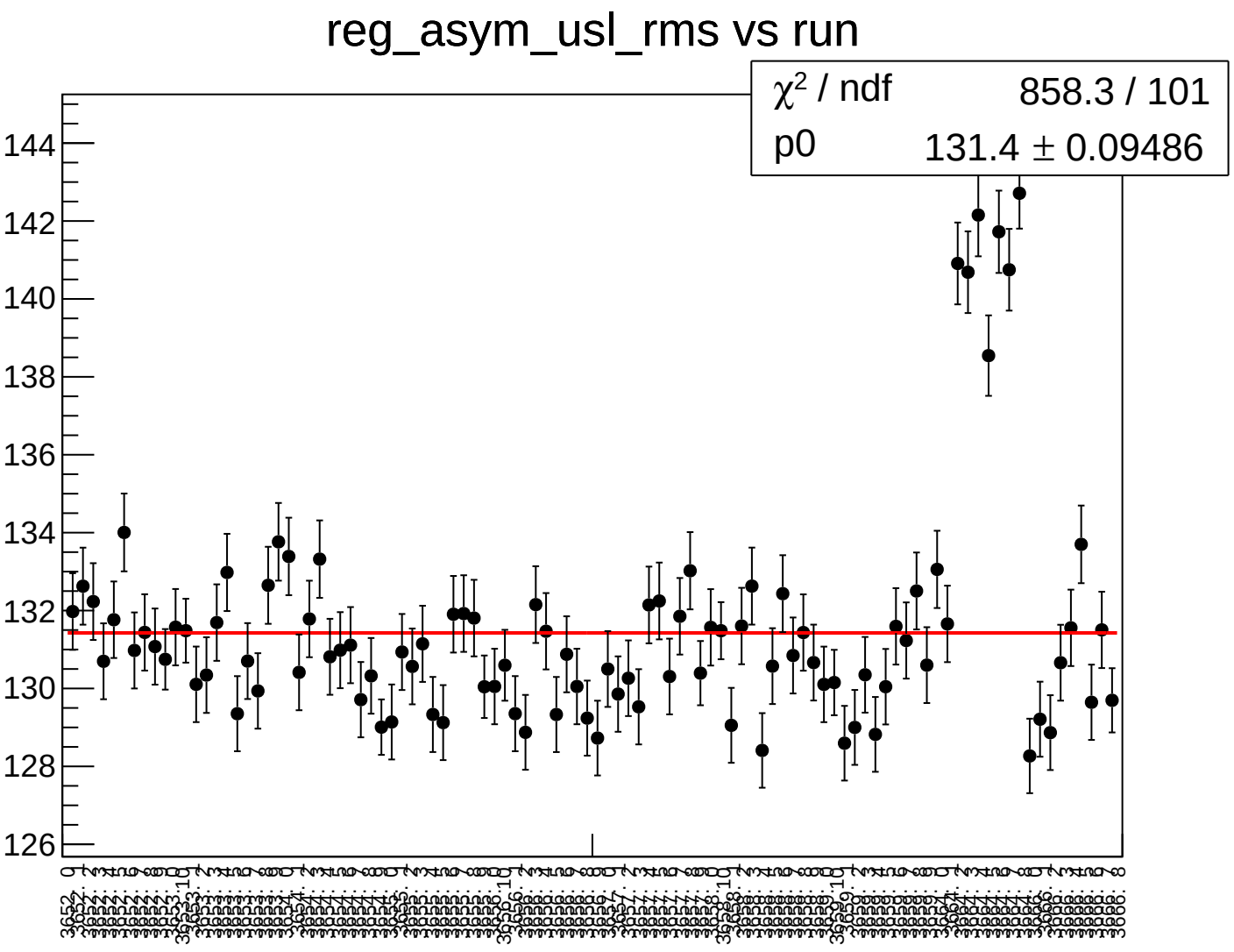
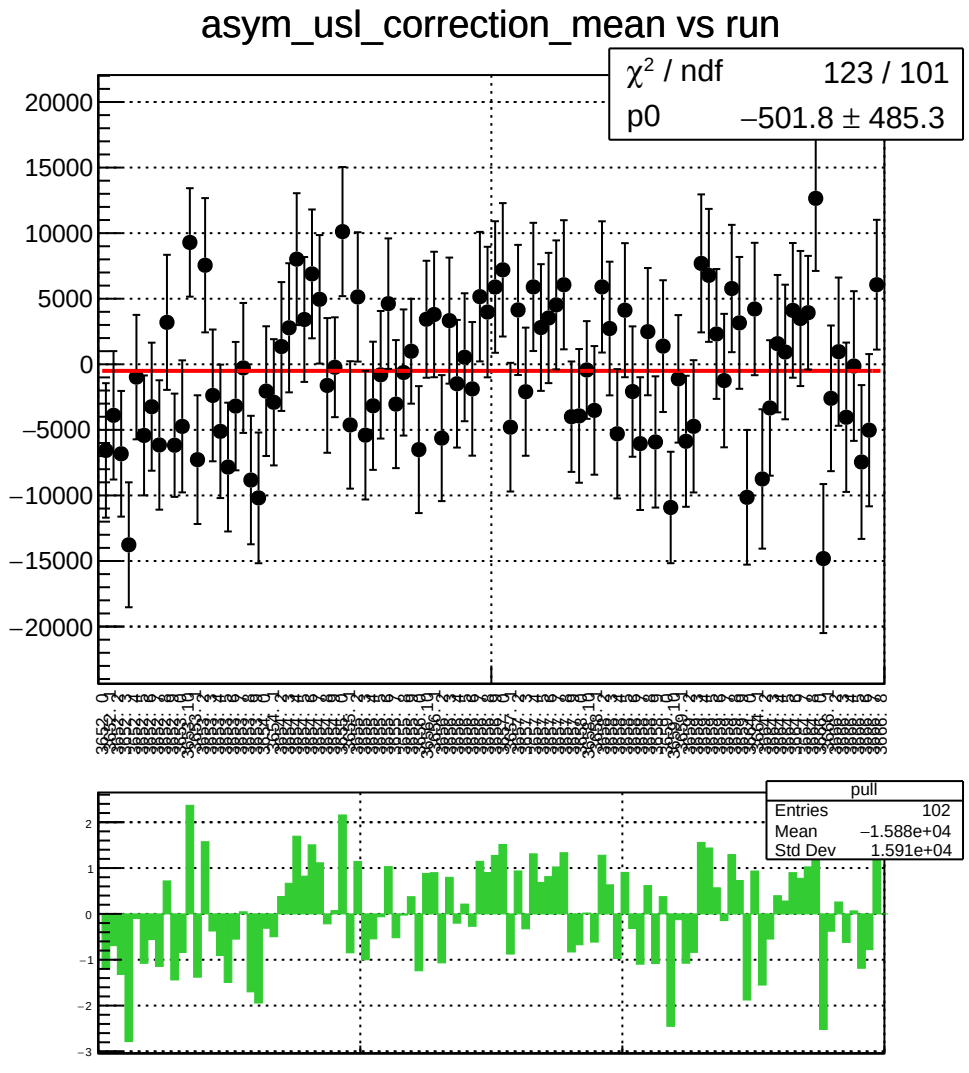
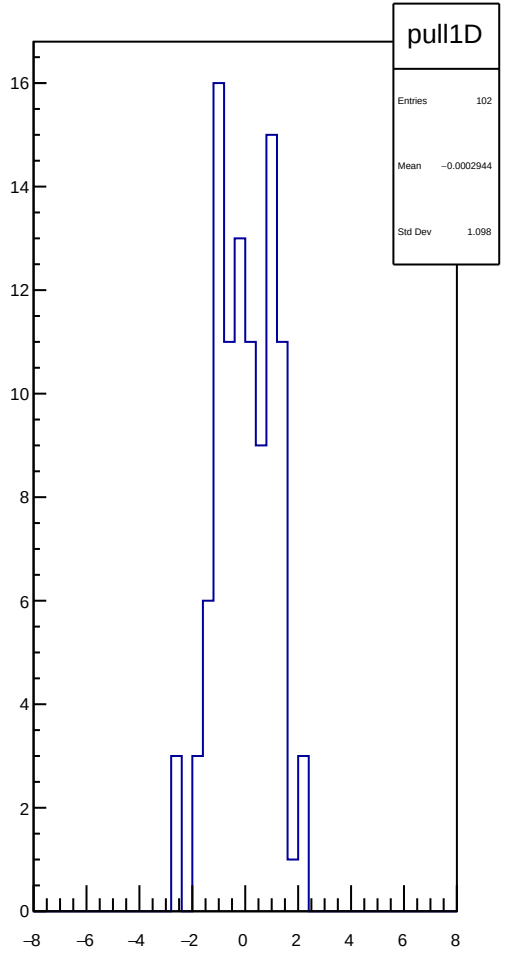
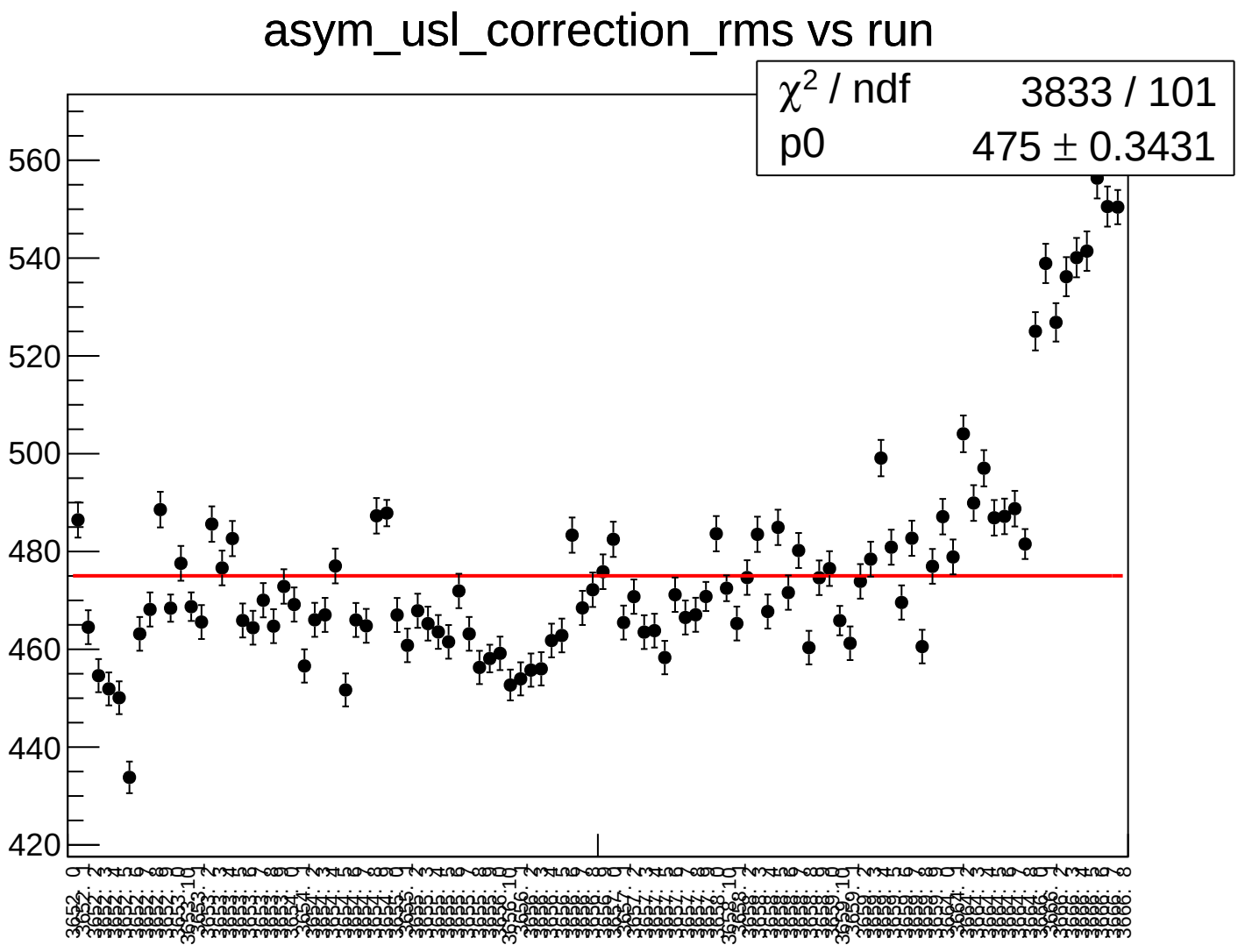

reg_asym_usl_mean vs run
χ² / ndf 88.82 / 101
p0 407.4 ± 134.2
6000
4000
2000
0
−2000
−4000
pull
Entries 102
Mean −273.2
Std Dev 201.9
3
2
1
0
−1
−2

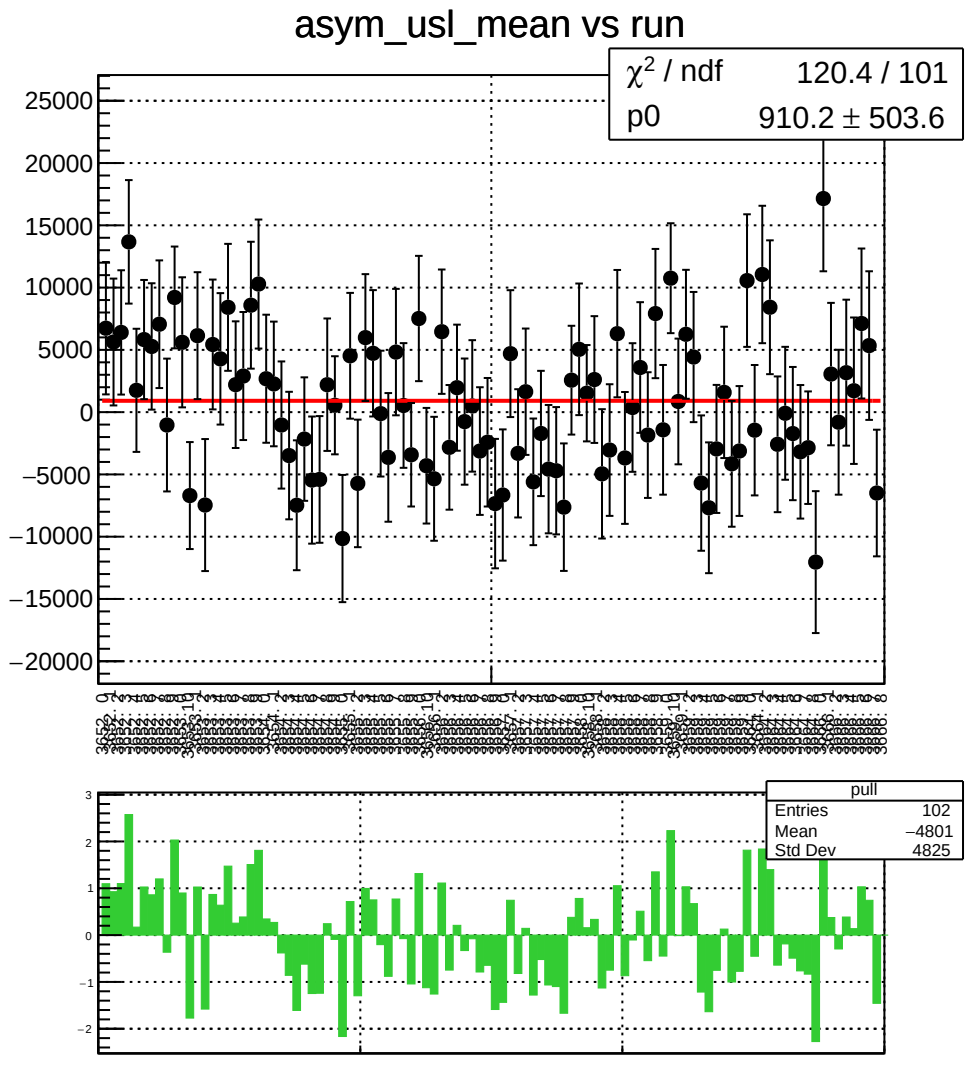

pull1D
Entries 102
Mean 0.002823
Std Dev 0.9331
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

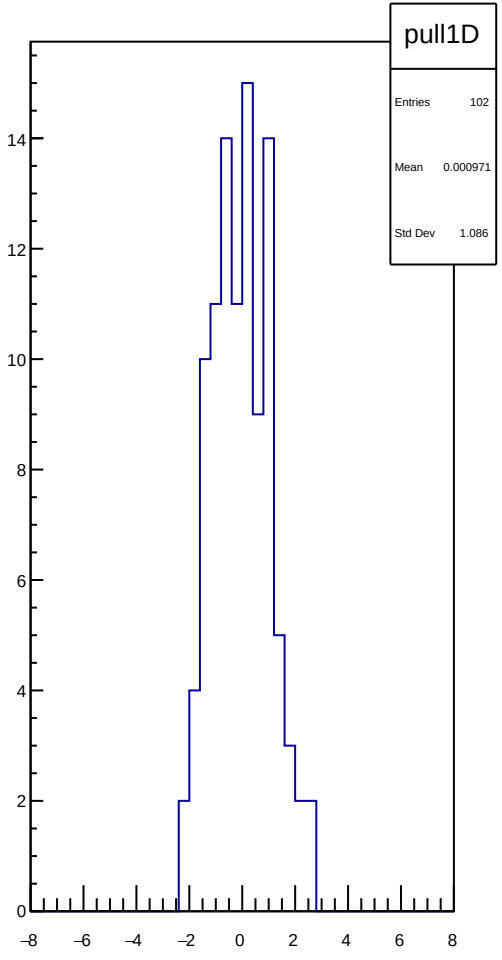

reg_asym_usl_rms vs run
χ^2 / ndf 858.3 / 101
p0 131.4 ± 0.09486
144
142
140
138
136
134
132
130
128
126

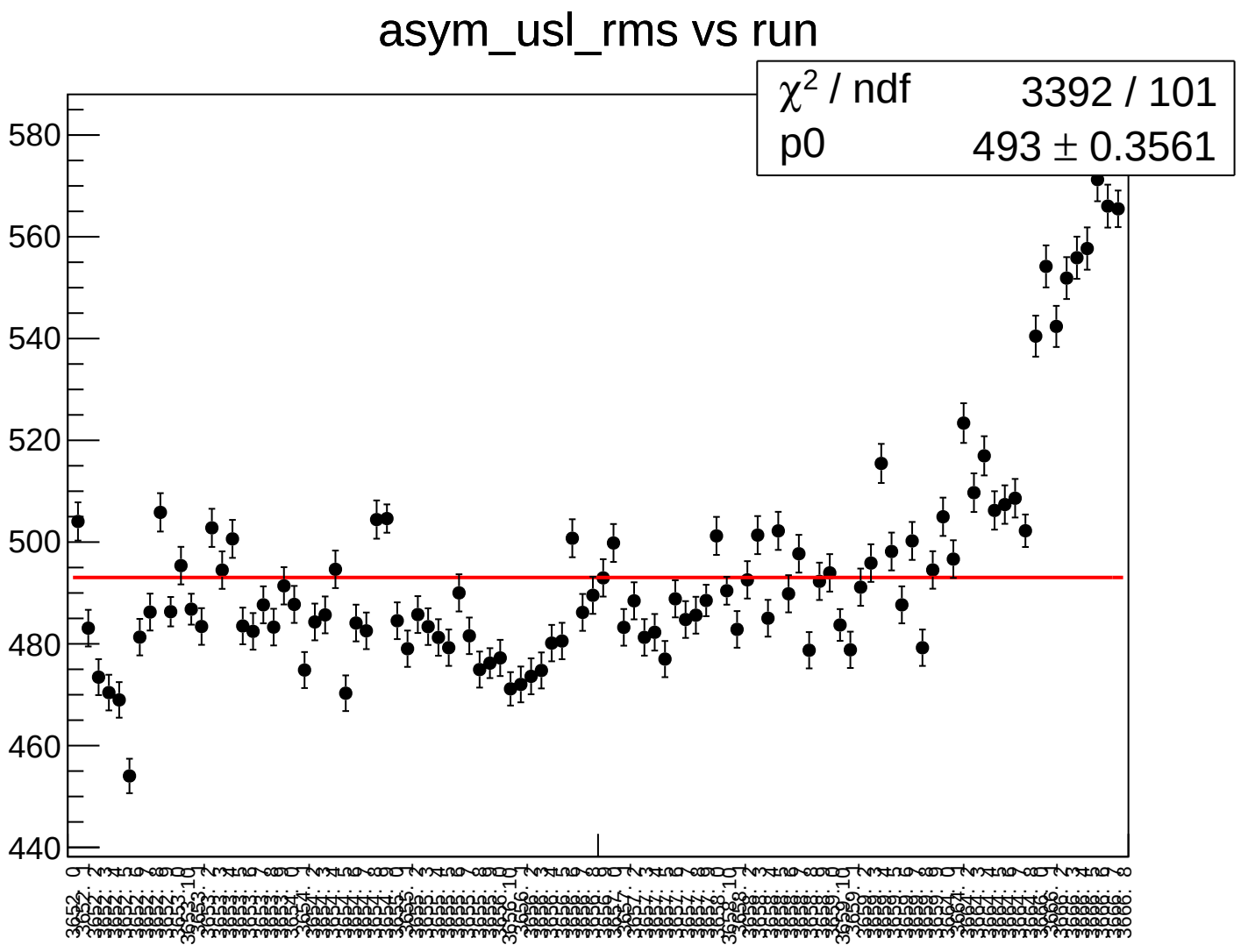

asym_usl_correction_mean vs run
χ² / ndf 123 / 101
p0 −501.8 ± 485.3
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 102
Mean −1.588e+04
Std Dev 1.591e+04
2
1
0
−1
−2
−3

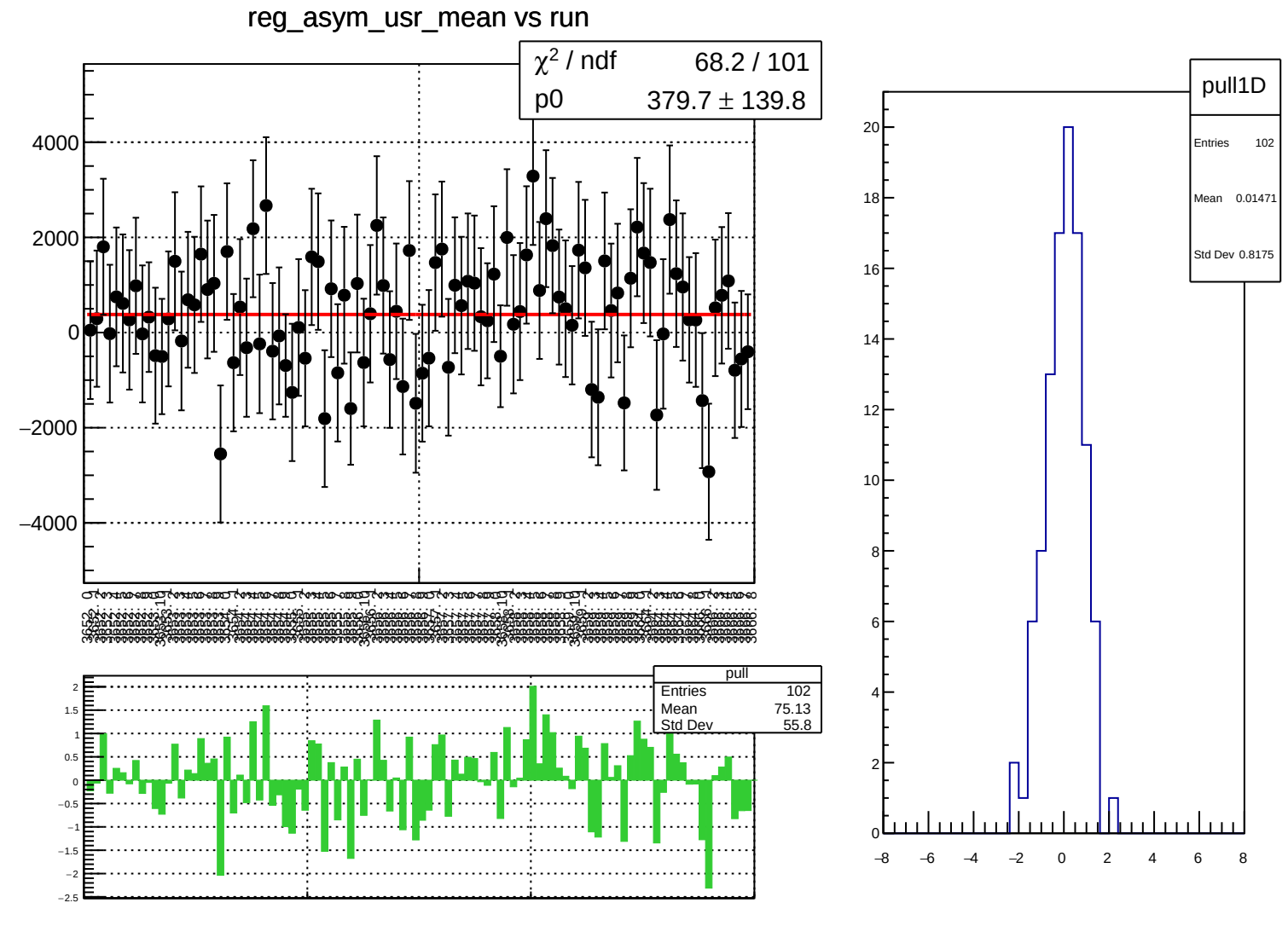

pull1D
Entries 102
Mean −0.0002944
Std Dev 1.098
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

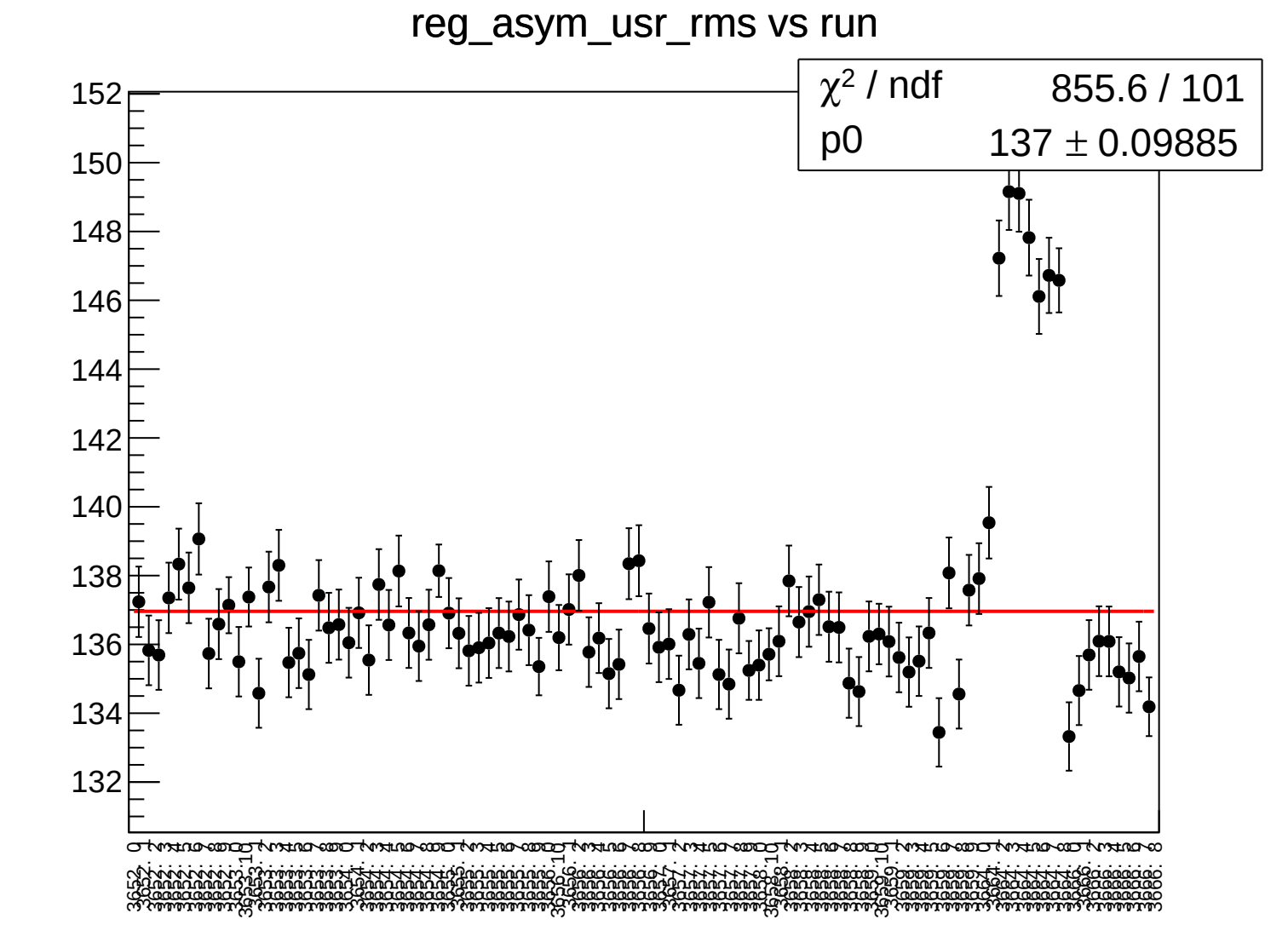

asym_usl_correction_rms vs run
χ² / ndf 3833 / 101
p0 475 ± 0.3431
560
540
520
500
480
460
440
420

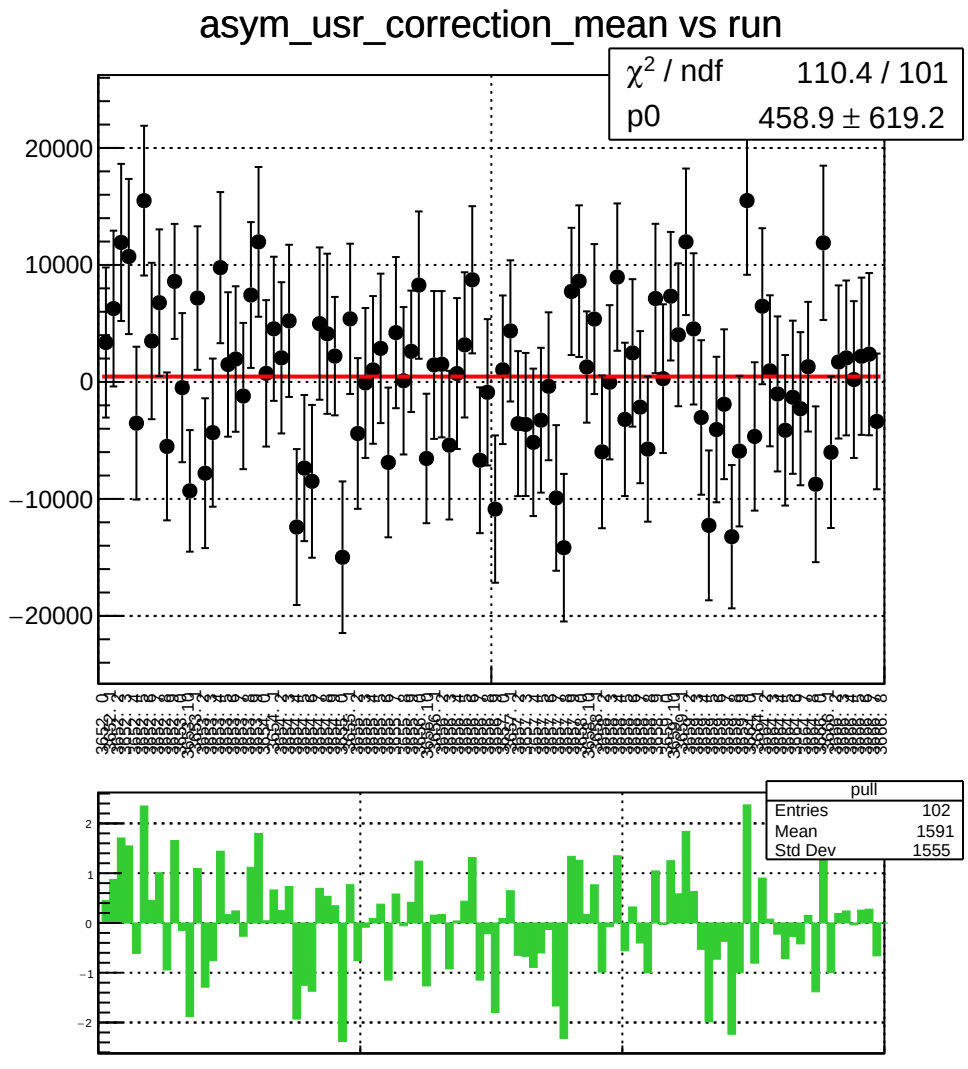

asym_usl_mean vs run
χ² / ndf 120.4 / 101
p0 910.2 ± 503.6
pull
Entries 102
Mean −4801
Std Dev 4825

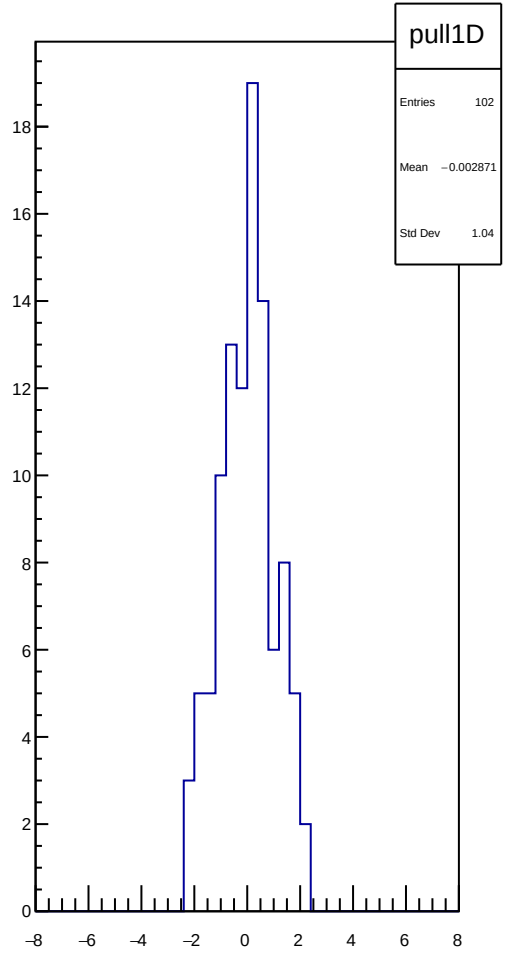

pull1D
Entries 102
Mean 0.000971
Std Dev 1.086


asym_usl_rms vs run
χ^2 / ndf 3392 / 101
p0 493 ± 0.3561
580
560
540
520
500
480
460
440


reg_asym_usr_mean vs run
χ² / ndf 68.2 / 101
p0 379.7 ± 139.8
4000
2000
0
−2000
−4000
pull
Entries 102
Mean 75.13
Std Dev 55.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5
pull1D
Entries 102
Mean 0.01471
Std Dev 0.8175
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


reg_asym_usr_rms vs run
χ² / ndf 855.6 / 101
p0 137 ± 0.09885
152
150
148
146
144
142
140
138
136
134
132


asym_usr_correction_mean vs run
χ² / ndf 110.4 / 101
p0 458.9 ± 619.2
20000
10000
0
−10000
−20000
pull
Entries 102
Mean 1591
Std Dev 1555
2
1
0
−1
−2


pull1D
Entries 102
Mean −0.002871
Std Dev 1.04
18
16
14
12
10
8
6
4
2
0
−8
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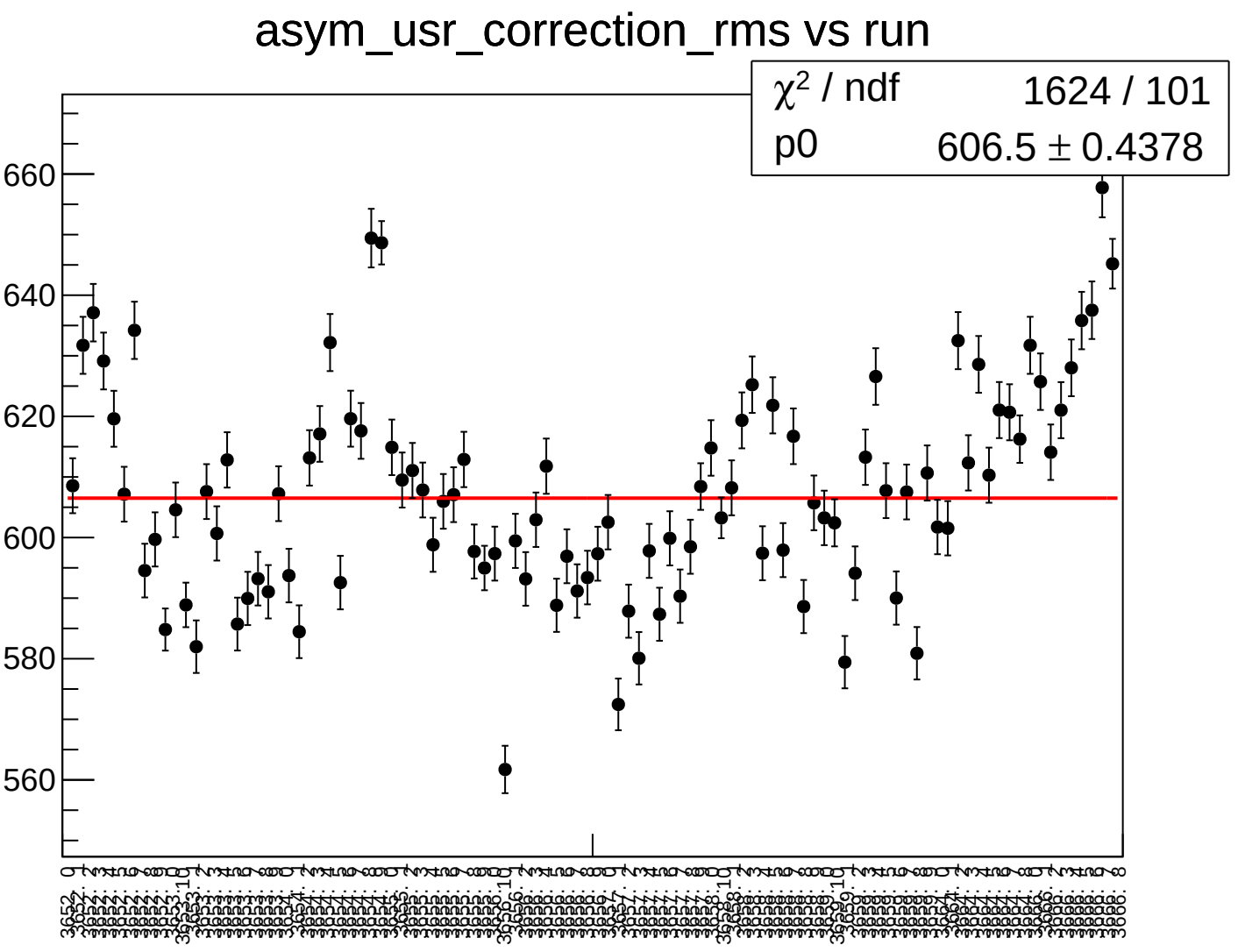
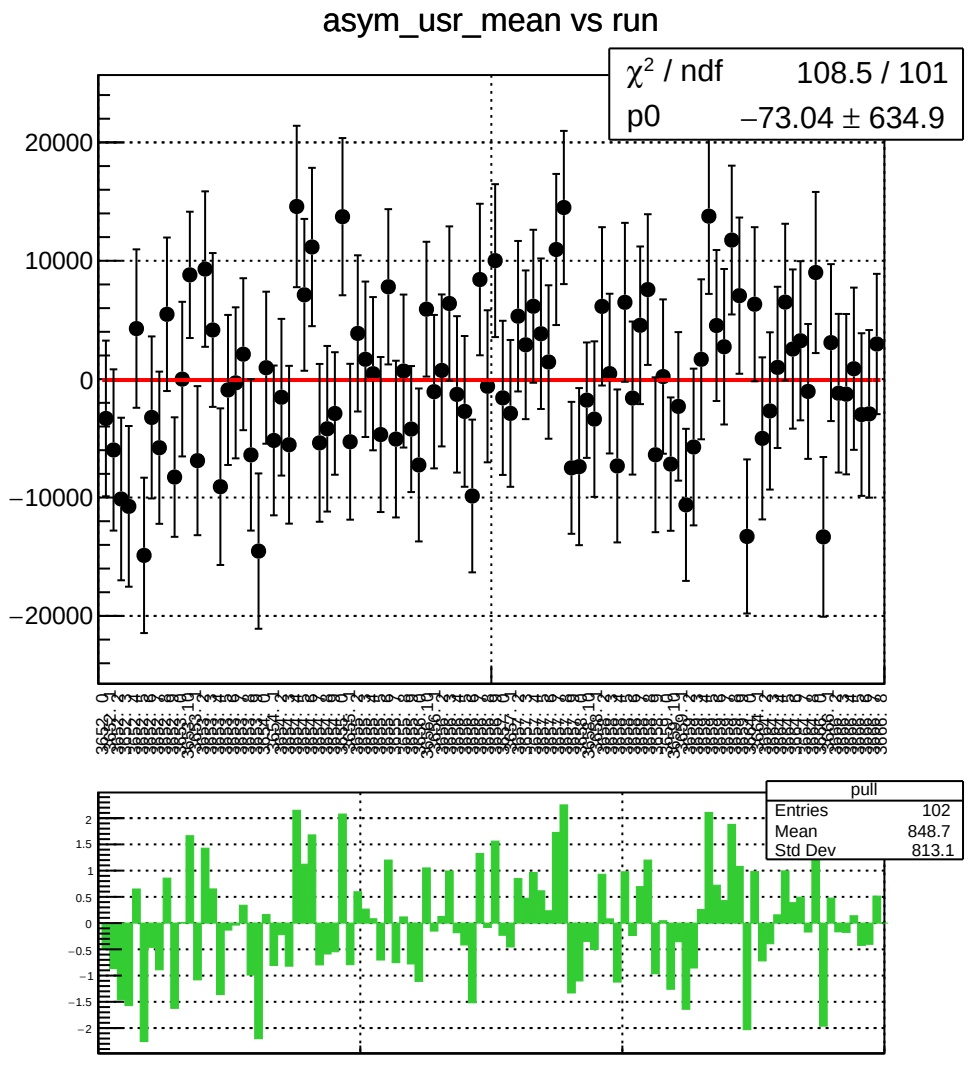
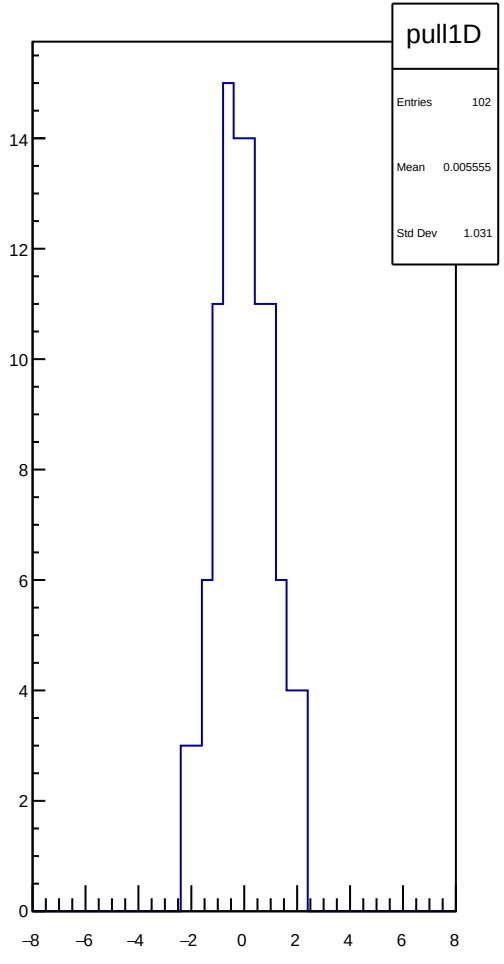
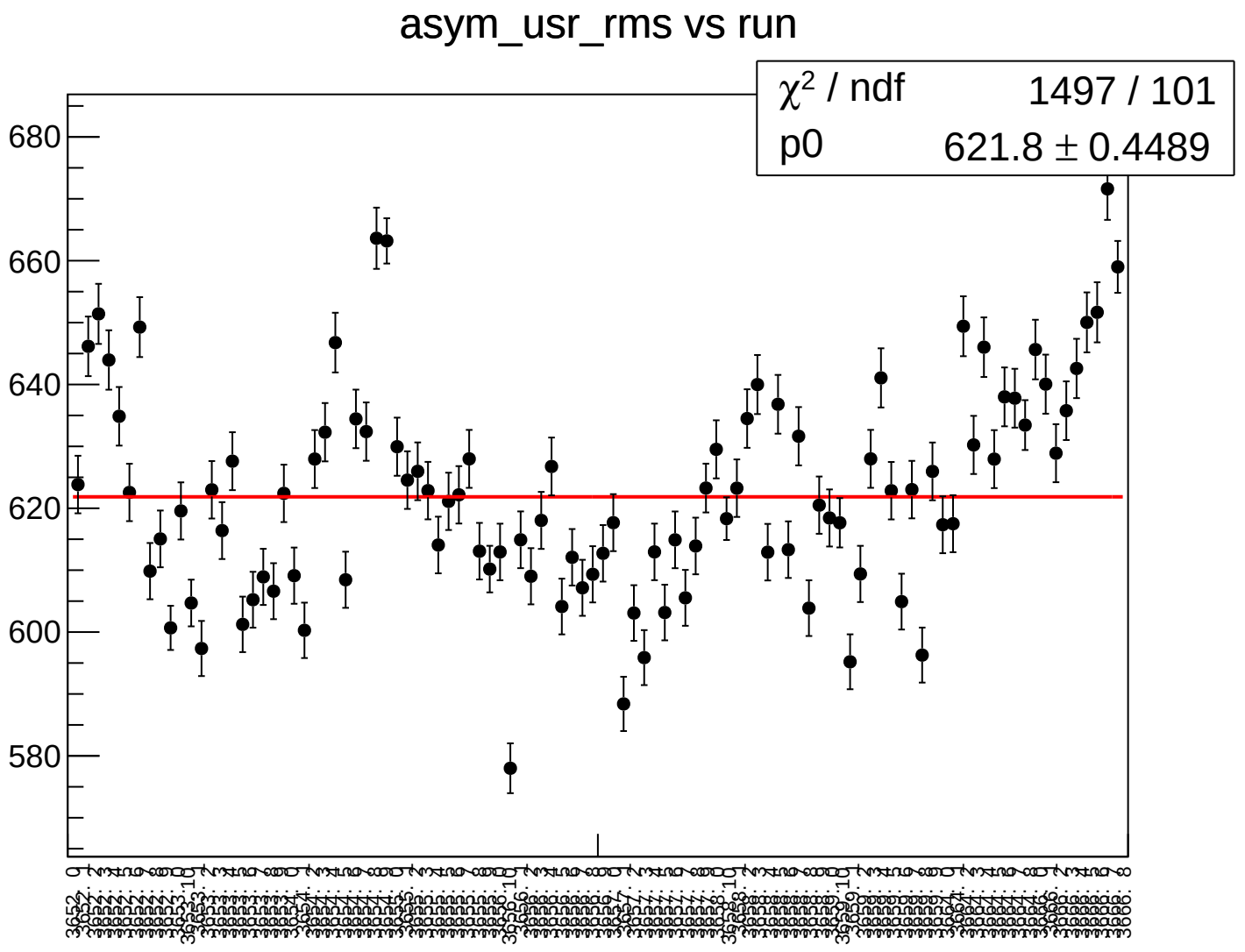
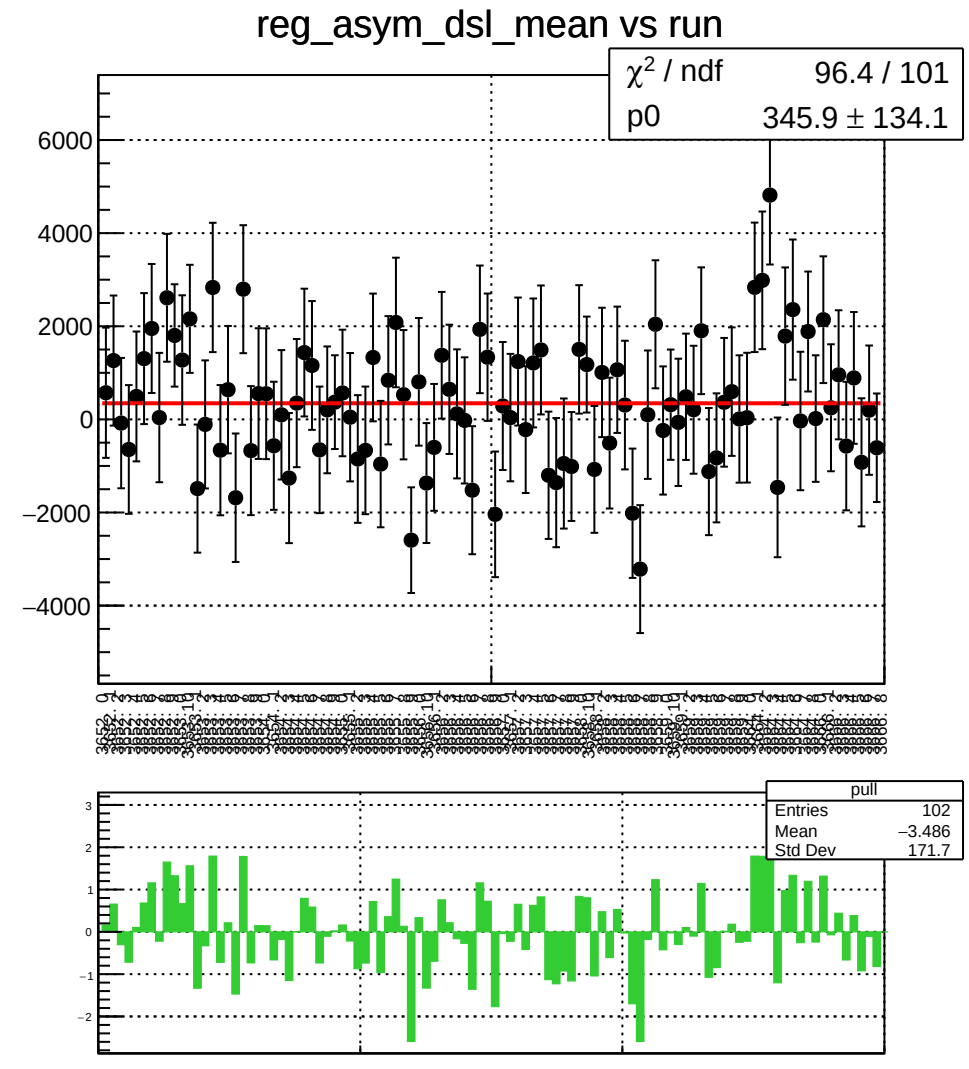
0
2
4
6
8

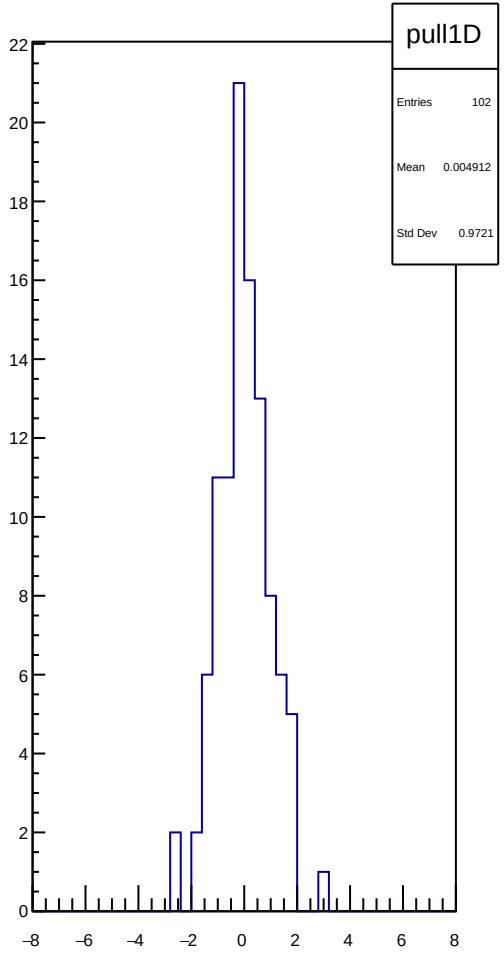

asym_usr_correction_rms vs run
χ² / ndf 1624 / 101
p0 606.5 ± 0.4378
660
640
620
600
580
560

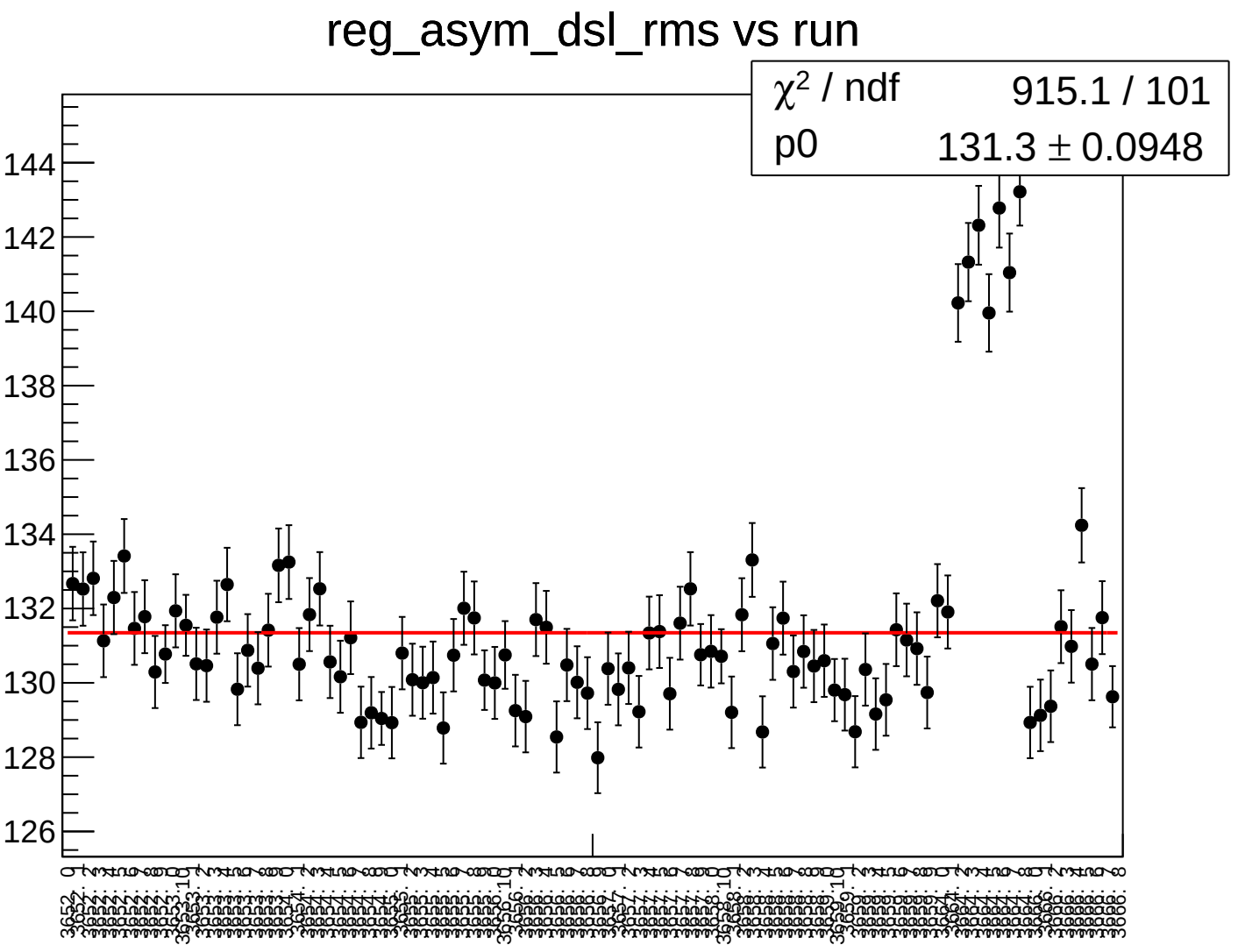

asym_usr_mean vs run
χ² / ndf 108.5 / 101
p0 −73.04 ± 634.9
20000
10000
0
−10000
−20000
pull
Entries 102
Mean 848.7
Std Dev 813.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

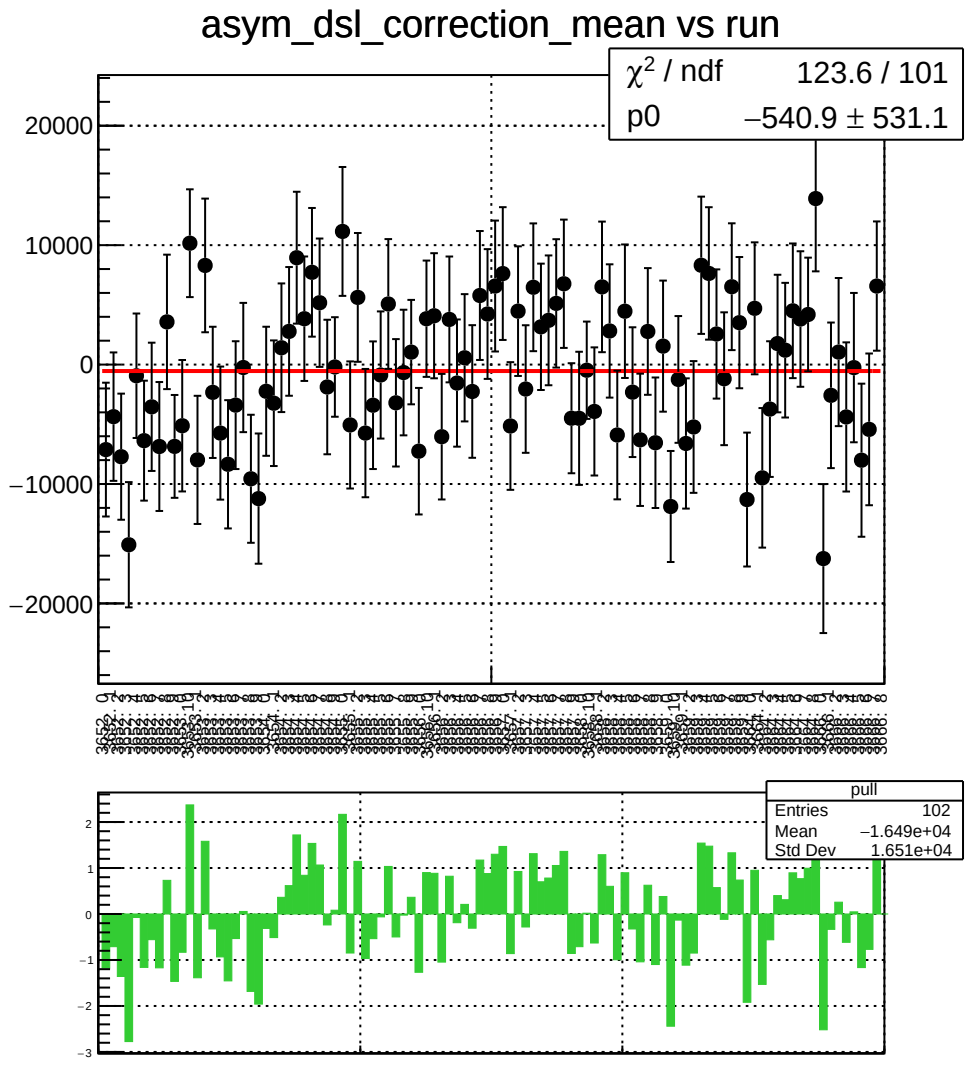

pull1D
Entries 102
Mean 0.005555
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

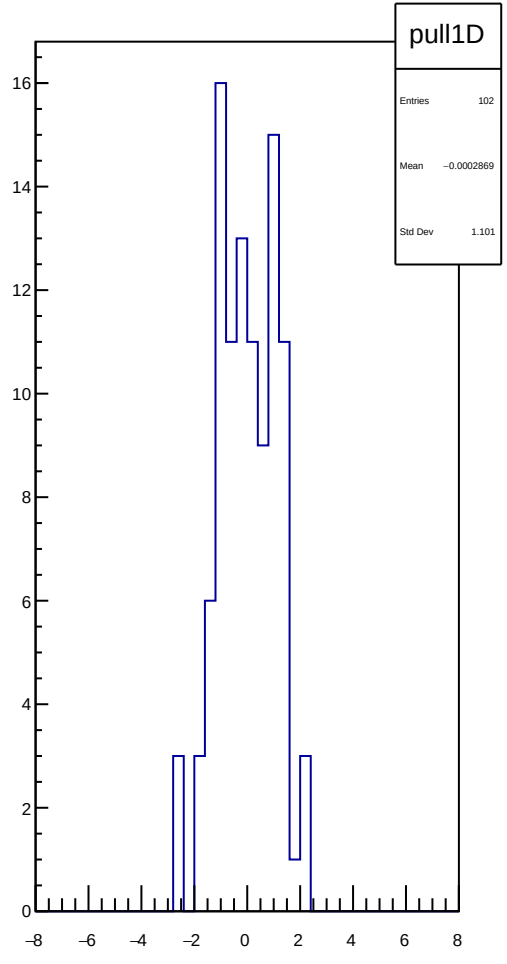

asym_usr_rms vs run
χ^2 / ndf 1497 / 101
p0 621.8 ± 0.4489
680
660
640
620
600
580

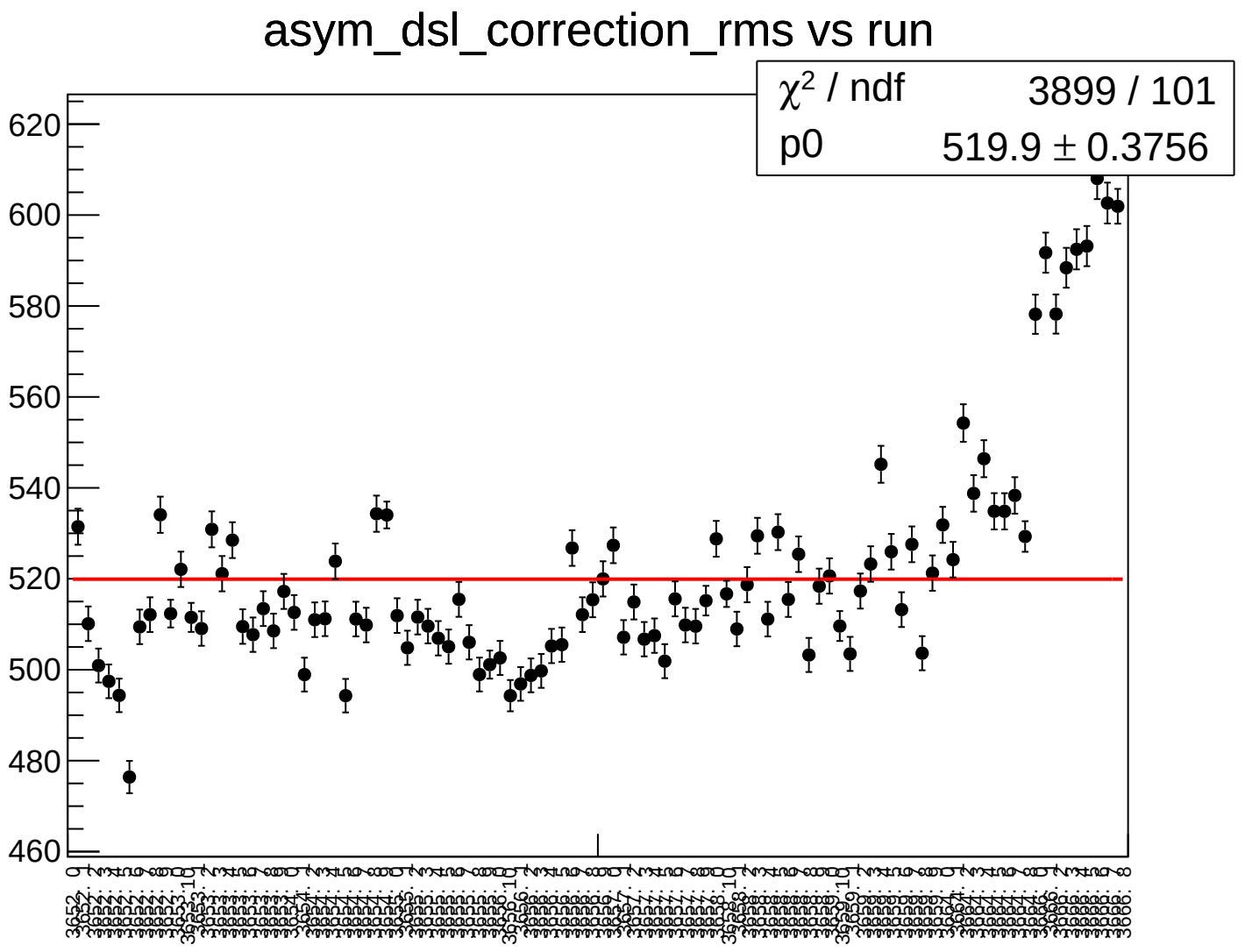

reg_asym_dsl_mean vs run
χ² / ndf 96.4 / 101
p0 345.9 ± 134.1
6000
4000
2000
0
−2000
−4000
pull
Entries 102
Mean −3.486
Std Dev 171.7
3
2
1
0
−1
−2

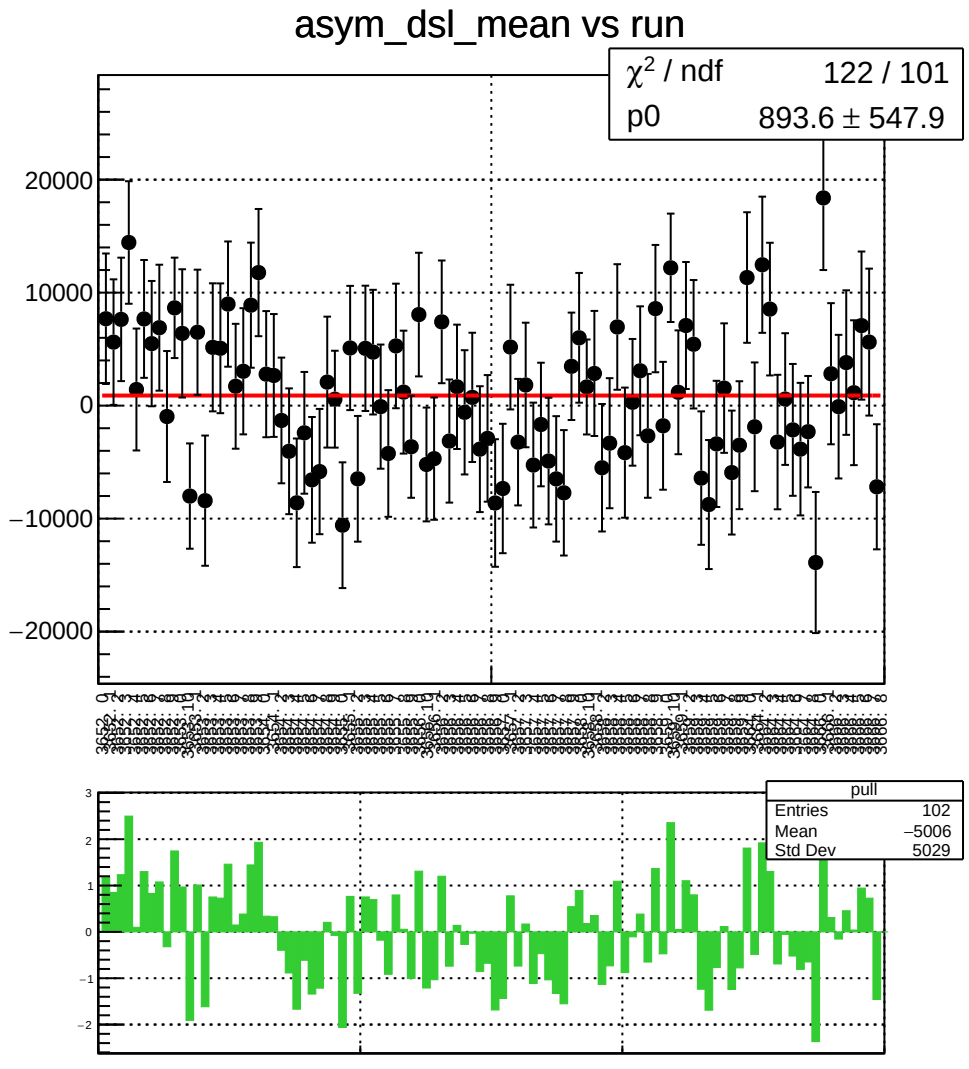

pull1D
Entries 102
Mean 0.004912
Std Dev 0.9721
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

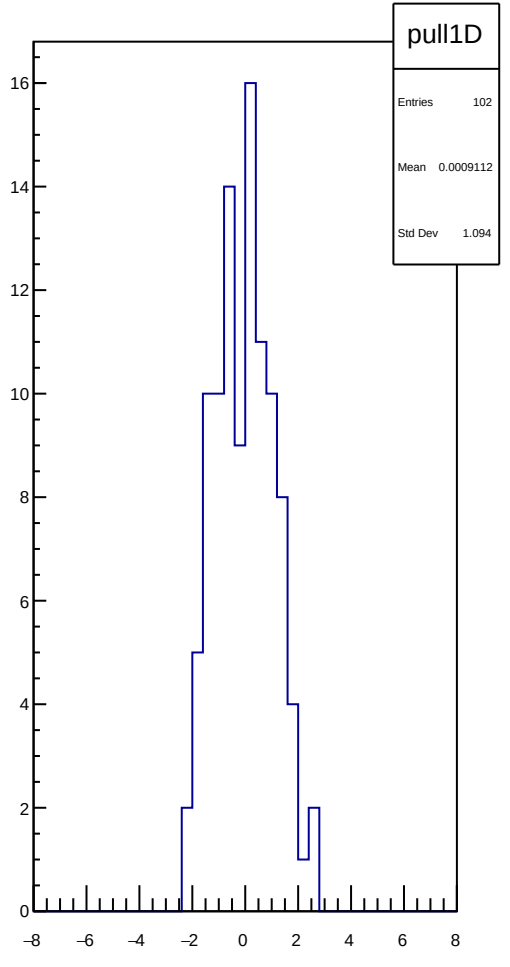

reg_asym_dsl_rms vs run
χ^2 / ndf 915.1 / 101
p0 131.3 ± 0.0948
144
142
140
138
136
134
132
130
128
126

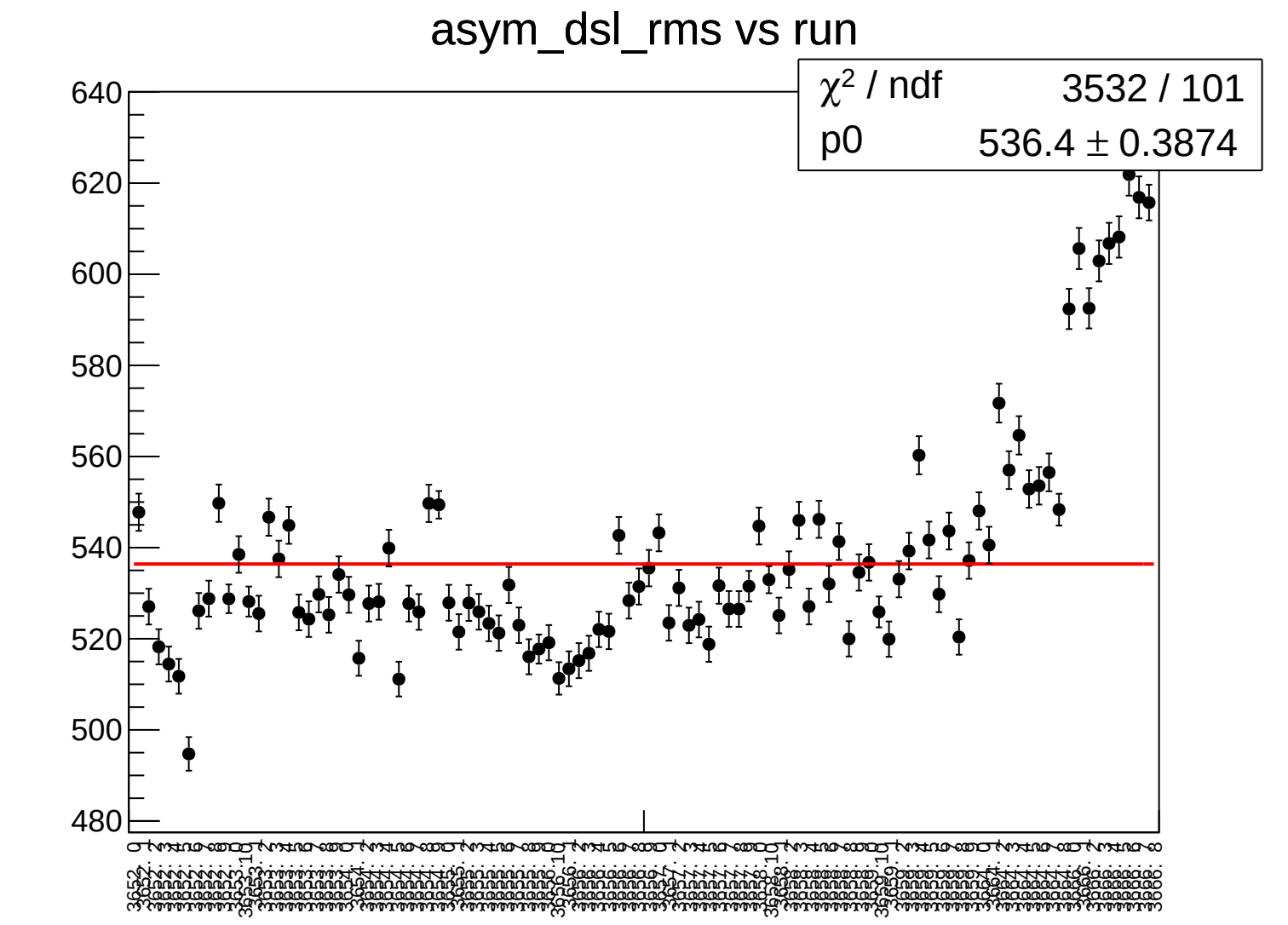

asym_dsl_correction_mean vs run
χ² / ndf 123.6 / 101
p0 −540.9 ± 531.1
20000
10000
0
−10000
−20000
pull
Entries 102
Mean −1.649e+04
Std Dev 1.651e+04
2
1
0
−1
−2
−3

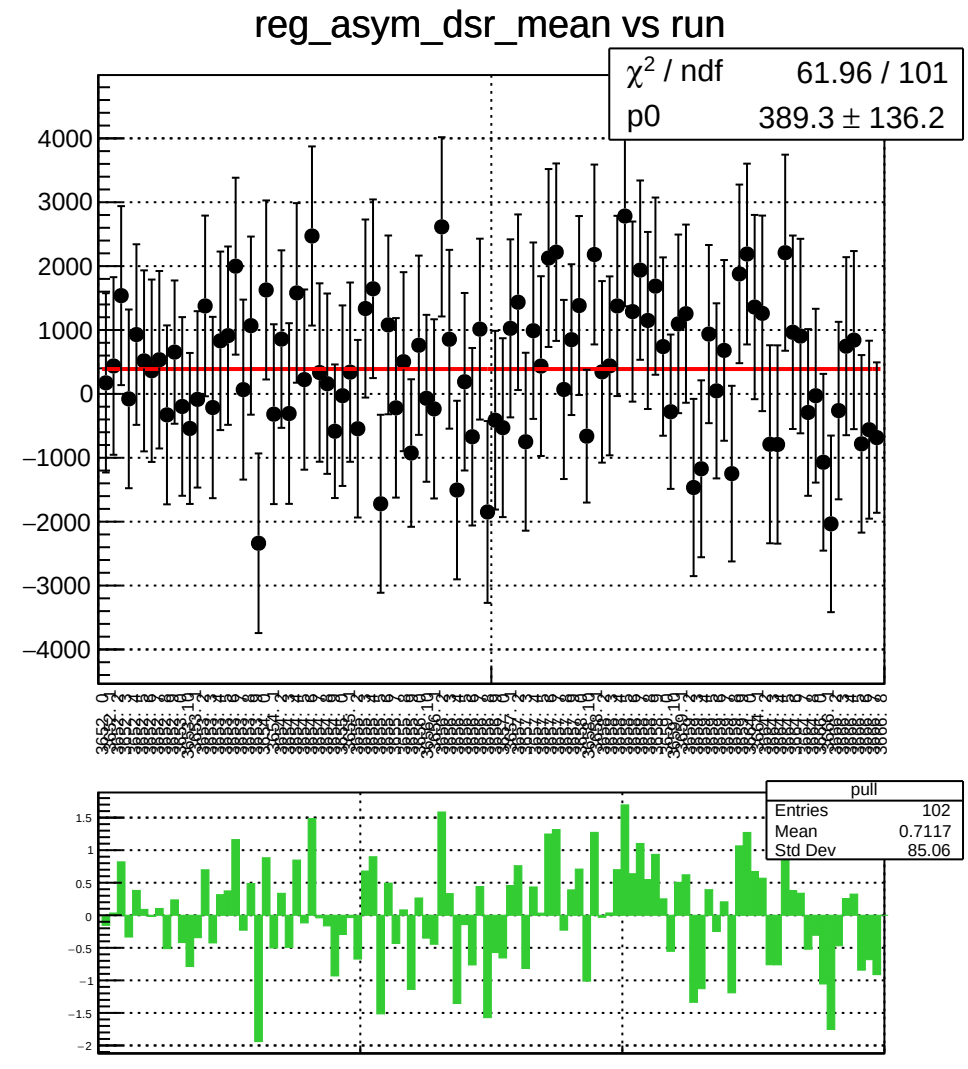

pull1D
Entries 102
Mean −0.0002869
Std Dev 1.101
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

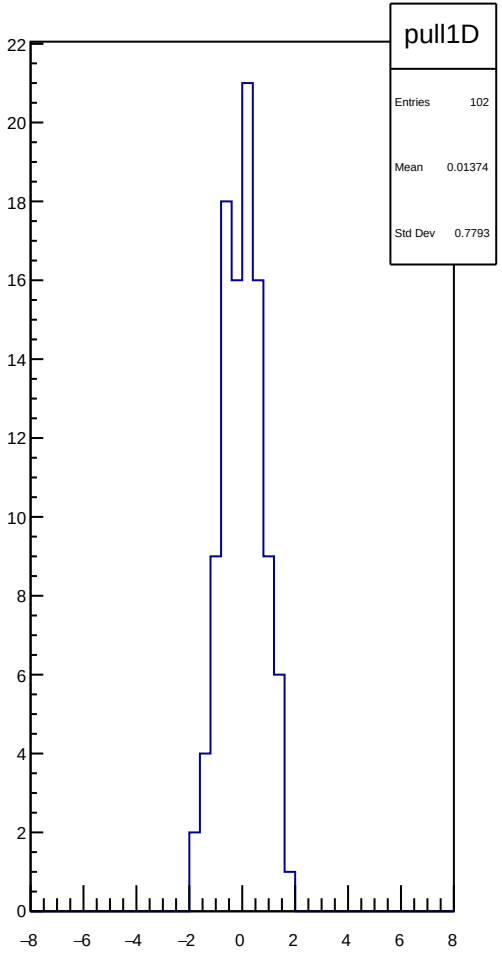

asym_dsl_correction_rms vs run
χ² / ndf 3899 / 101
p0 519.9 ± 0.3756
620
600
580
560
540
520
500
480
460

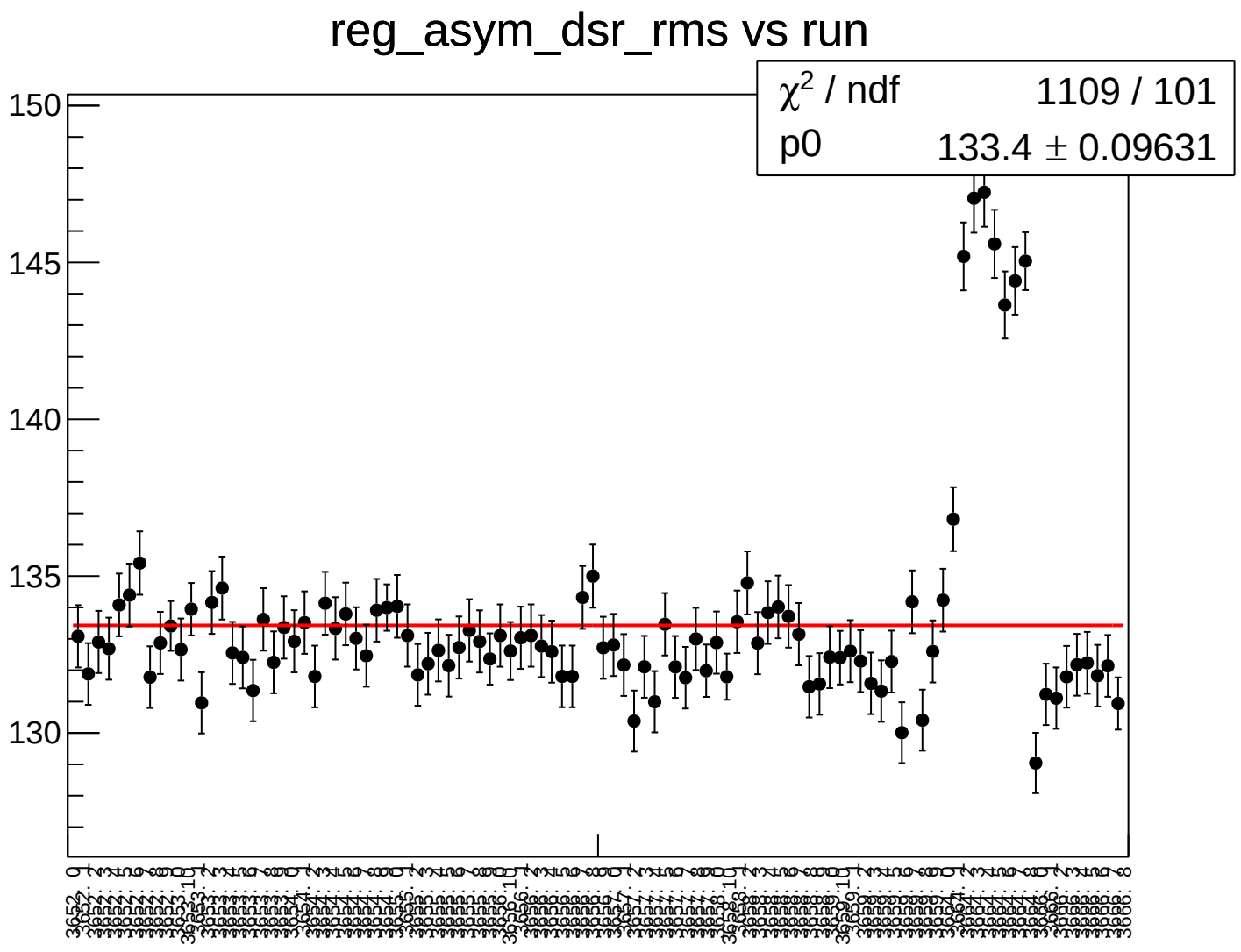

asym_dsl_mean vs run
χ² / ndf 122 / 101
p0 893.6 ± 547.9
20000
10000
0
−10000
−20000
pull
Entries 102
Mean −5006
Std Dev 5029
3
2
1
0
−1
−2

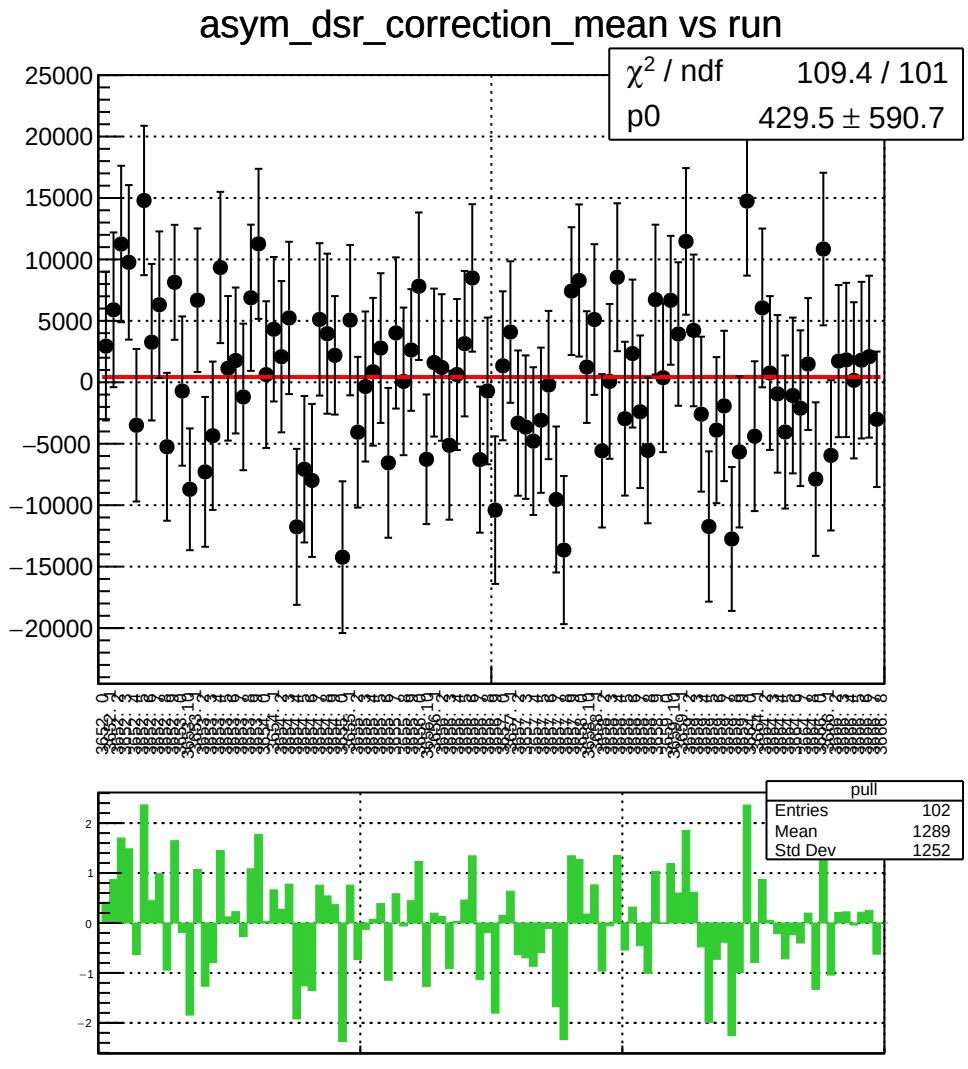

pull1D
Entries 102
Mean 0.0009112
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

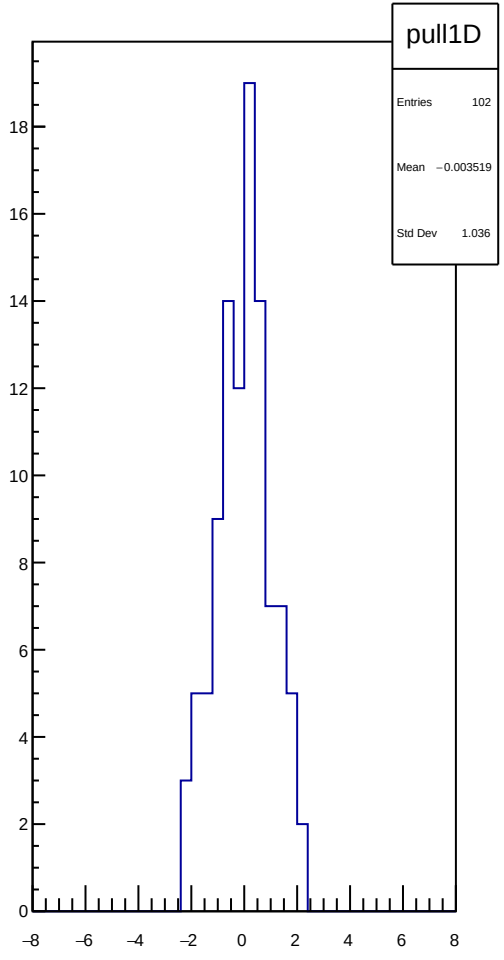

asym_dsl_rms vs run
χ² / ndf 3532 / 101
p0 536.4 ± 0.3874
640
620
600
580
560
540
520
500
480

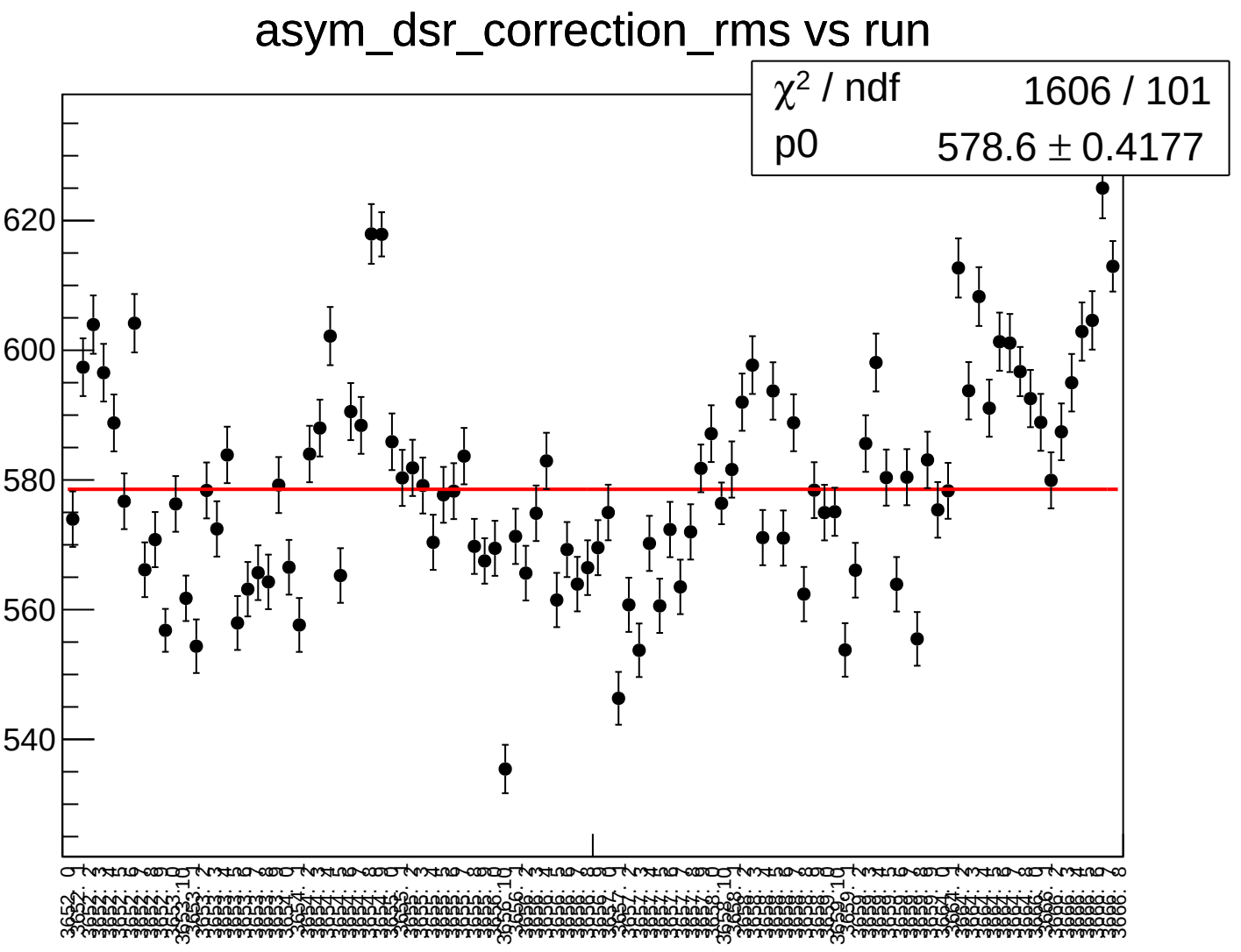

reg_asym_dsr_mean vs run
χ² / ndf 61.96 / 101
p0 389.3 ± 136.2
pull
Entries 102
Mean 0.7117
Std Dev 85.06

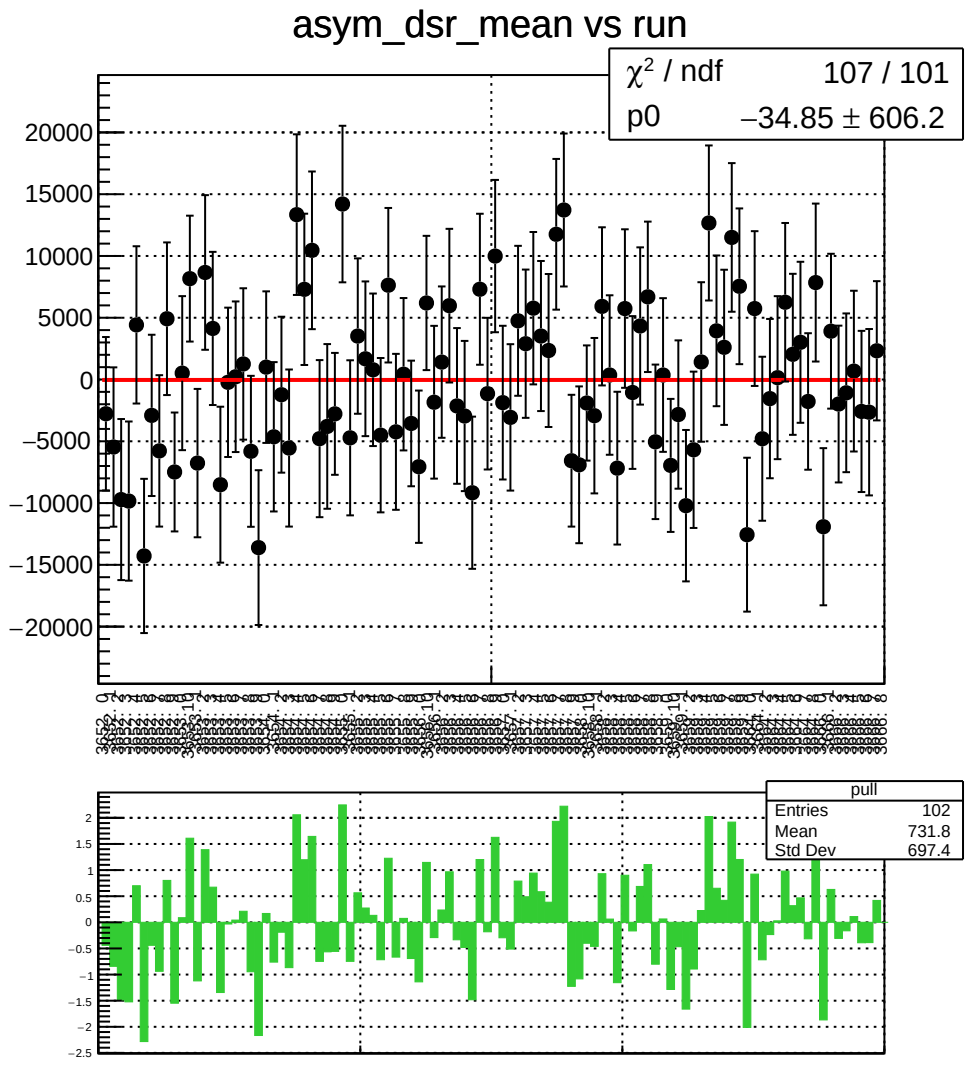

pull1D
Entries 102
Mean 0.01374
Std Dev 0.7793

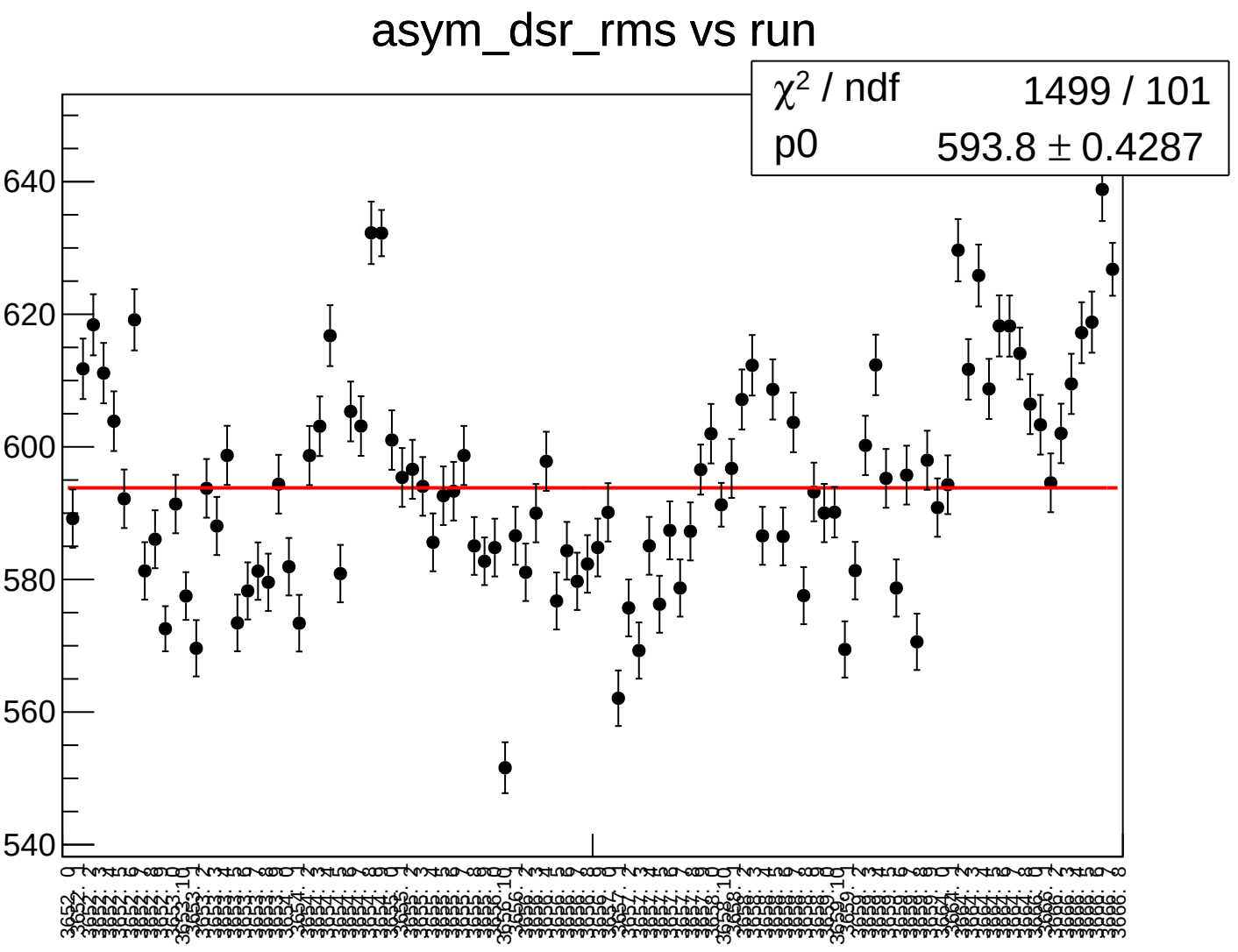

reg_asym_dsr_rms vs run
χ^2 / ndf 1109 / 101
p0 133.4 ± 0.09631
150
145
140
135
130

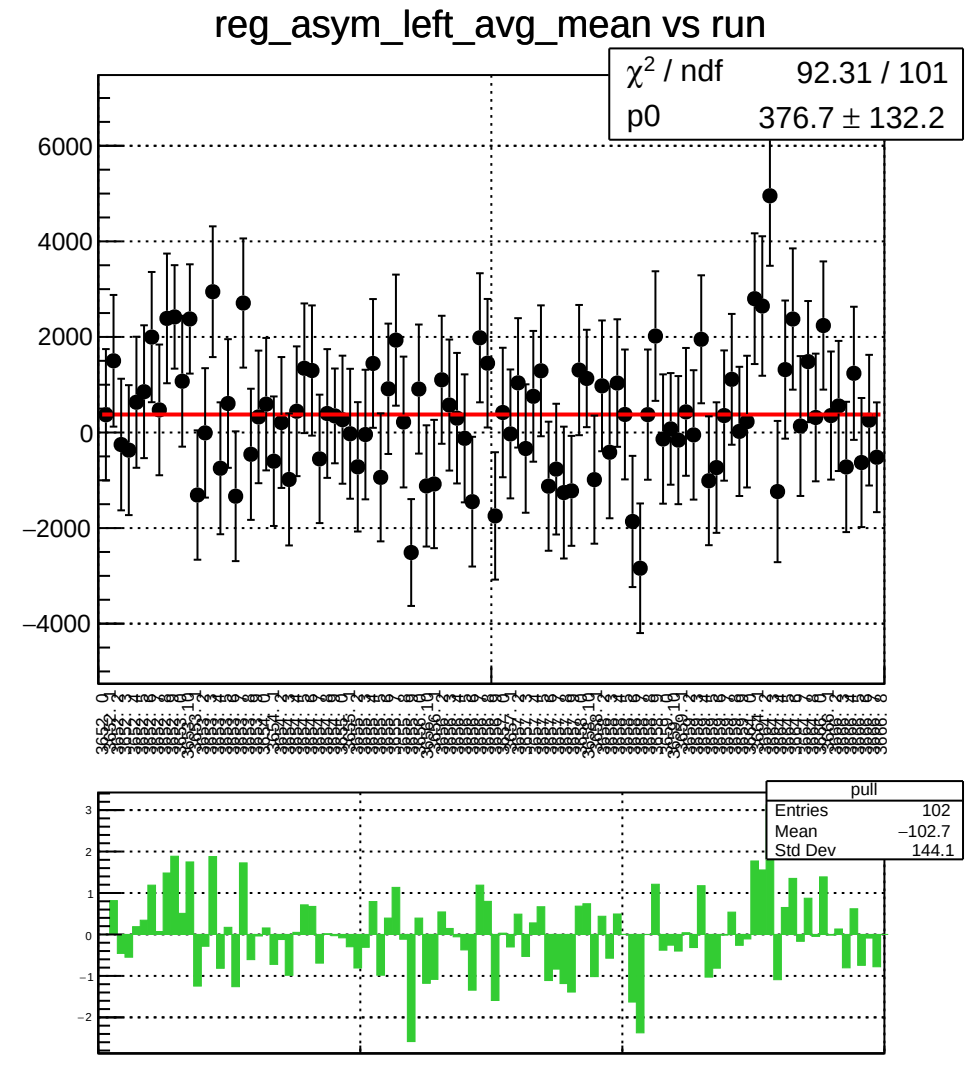

asym_dsr_correction_mean vs run
χ² / ndf 109.4 / 101
p0 429.5 ± 590.7
pull
Entries 102
Mean 1289
Std Dev 1252

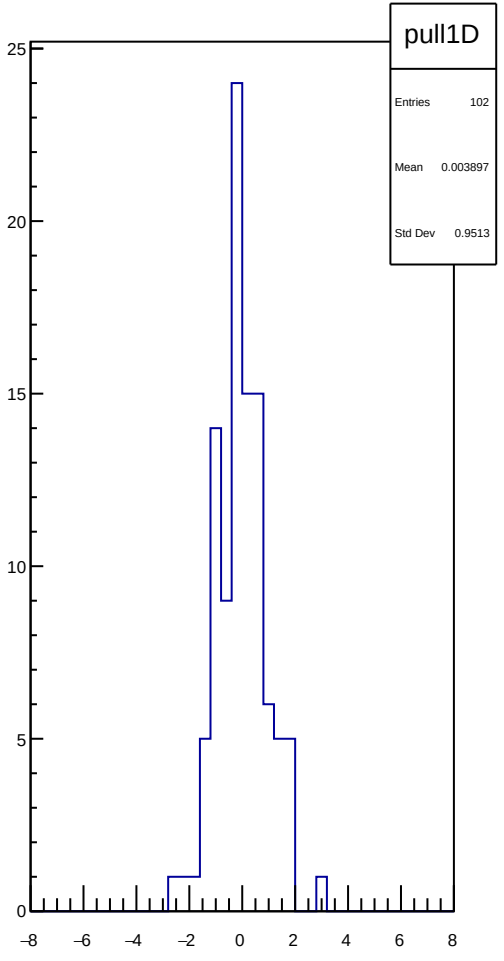

pull1D
Entries 102
Mean −0.003519
Std Dev 1.036

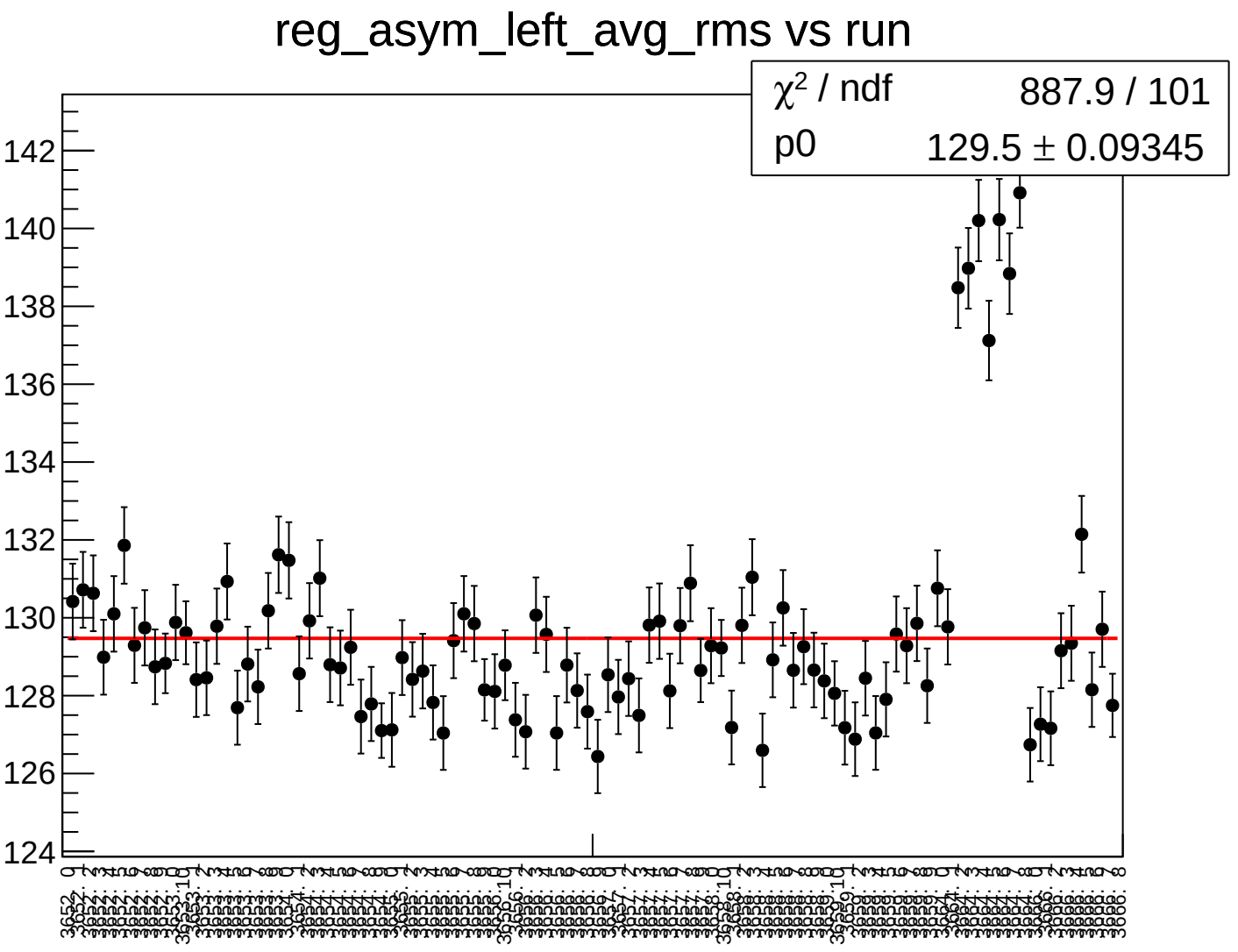

asym_dsr_correction_rms vs run
χ² / ndf 1606 / 101
p0 578.6 ± 0.4177
620
600
580
560
540

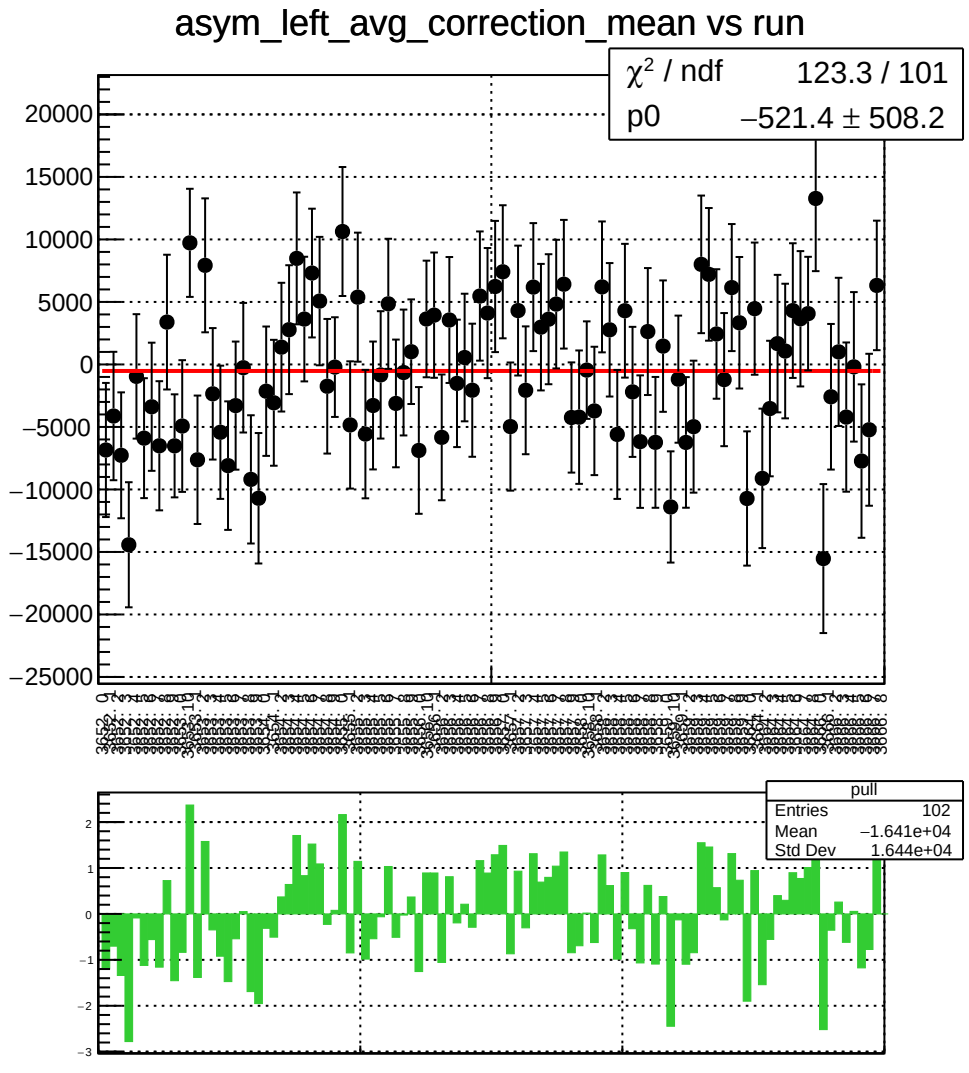

asym_dsr_mean vs run
χ² / ndf 107 / 101
p0 −34.85 ± 606.2
pull
Entries 102
Mean 731.8
Std Dev 697.4
pull1D
Entries 102
Mean 0.006059
Std Dev 1.024

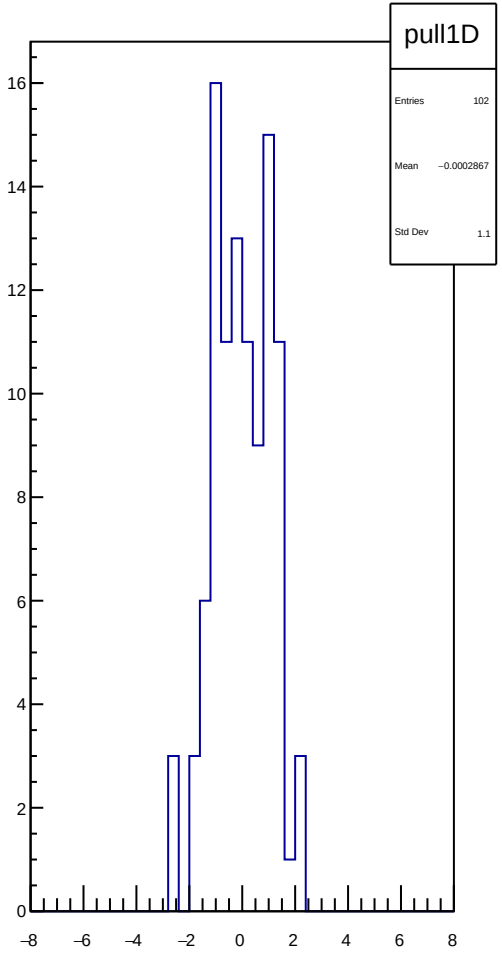

asym_dsr_rms vs run
χ² / ndf 1499 / 101
p0 593.8 ± 0.4287
640
620
600
580
560
540

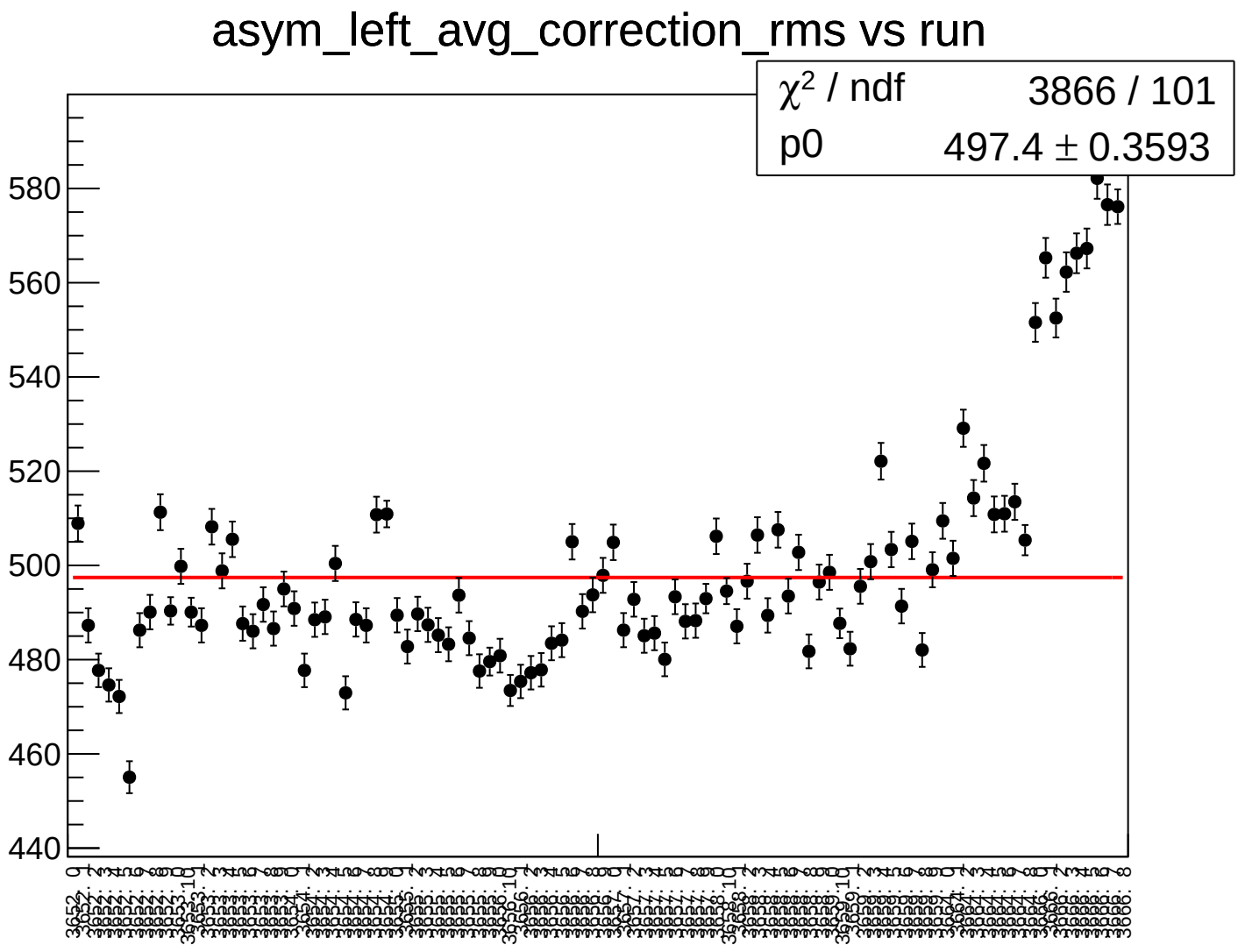

reg_asym_left_avg_mean vs run
χ^2 / ndf 92.31 / 101
p0 376.7 ± 132.2
6000
4000
2000
0
−2000
−4000
pull
Entries 102
Mean −102.7
Std Dev 144.1
3
2
1
0
−1
−2

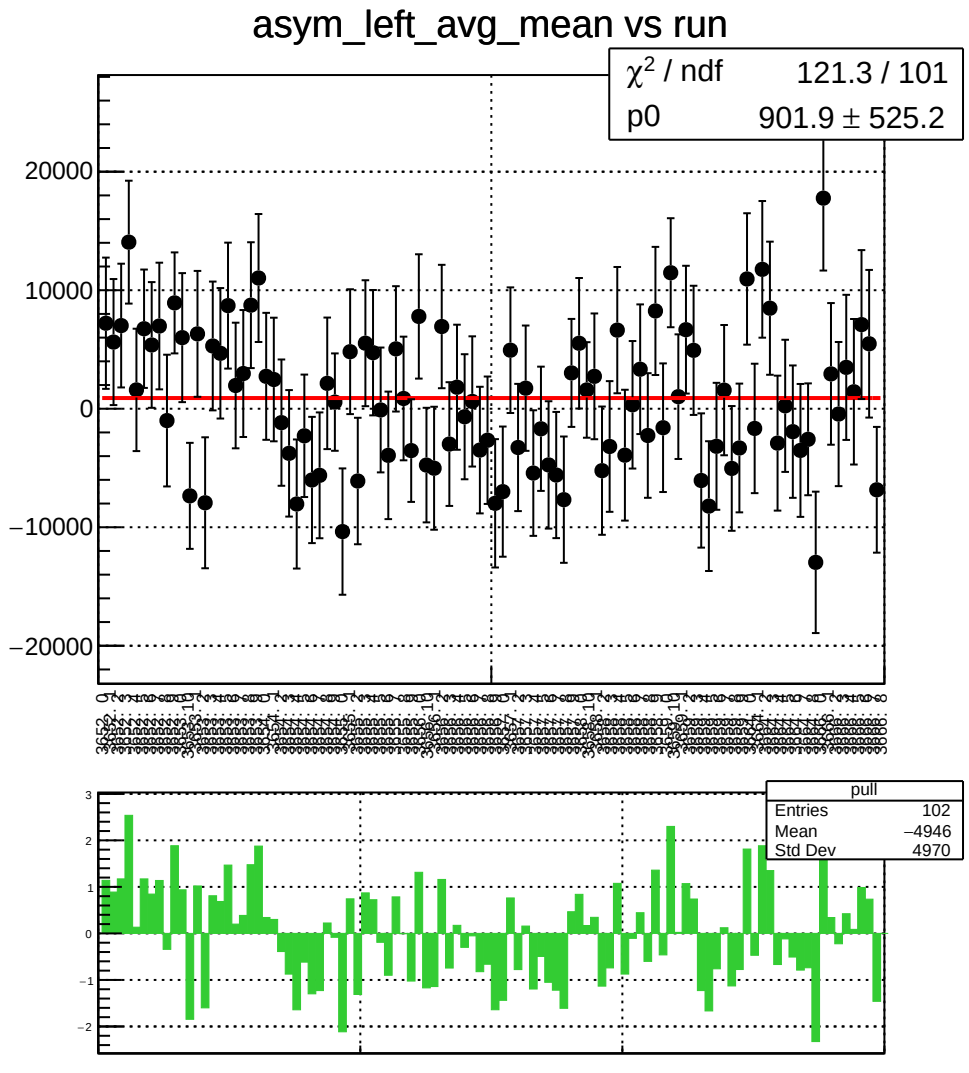

pull1D
Entries 102
Mean 0.003897
Std Dev 0.9513
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

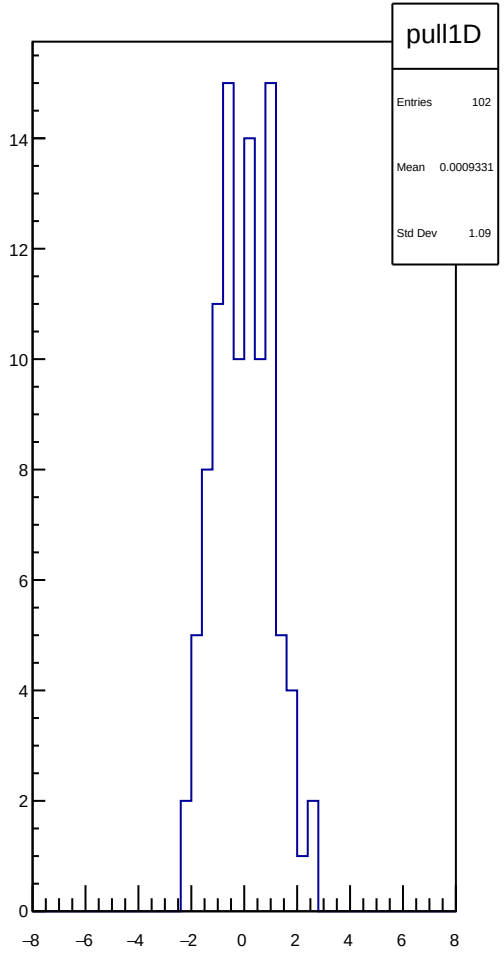

reg_asym_left_avg_rms vs run
χ^2 / ndf 887.9 / 101
p0 129.5 ± 0.09345
142
140
138
136
134
132
130
128
126
124

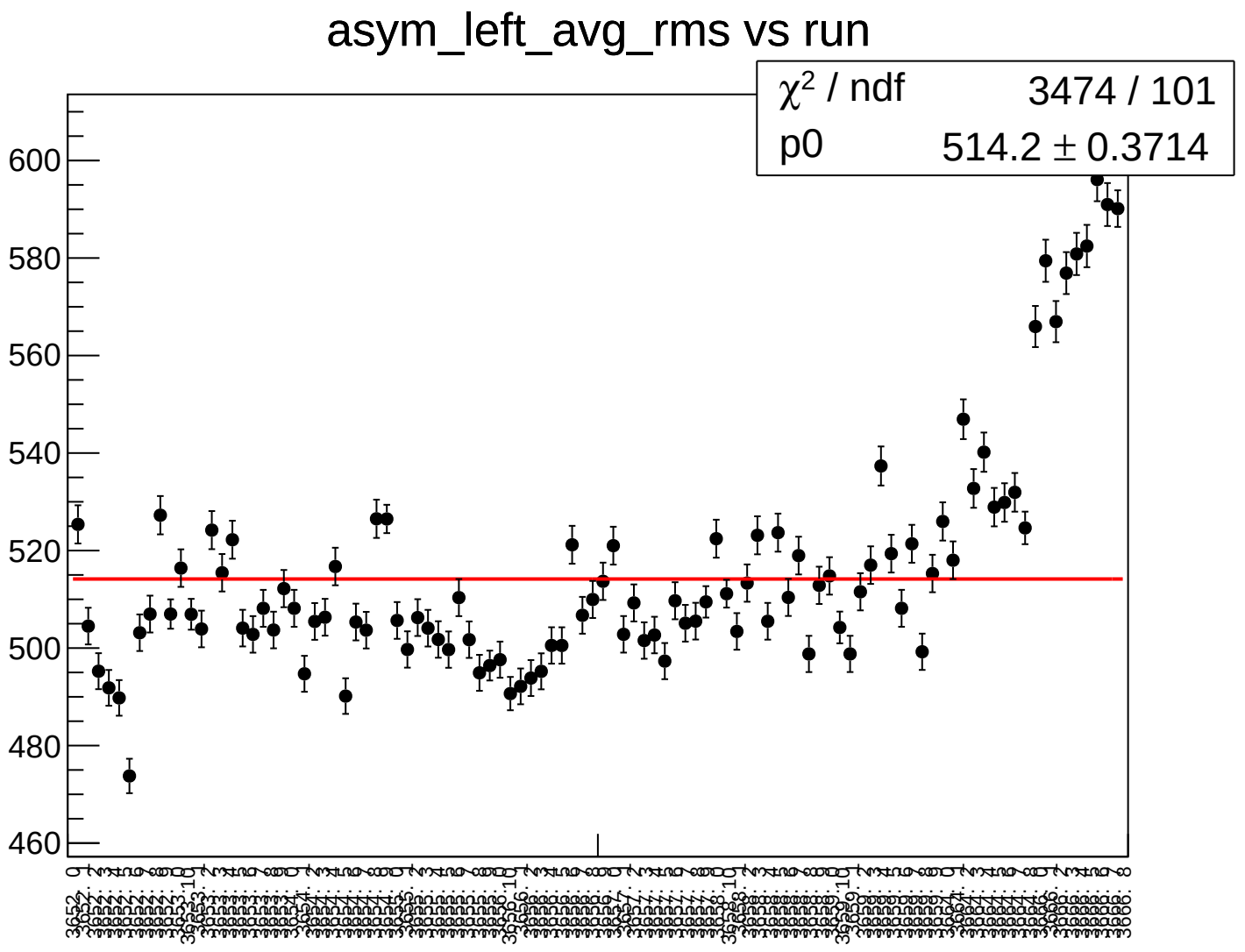

asym_left_avg_correction_mean vs run
χ² / ndf 123.3 / 101
p0 −521.4 ± 508.2
pull
Entries 102
Mean −1.641e+04
Std Dev 1.644e+04

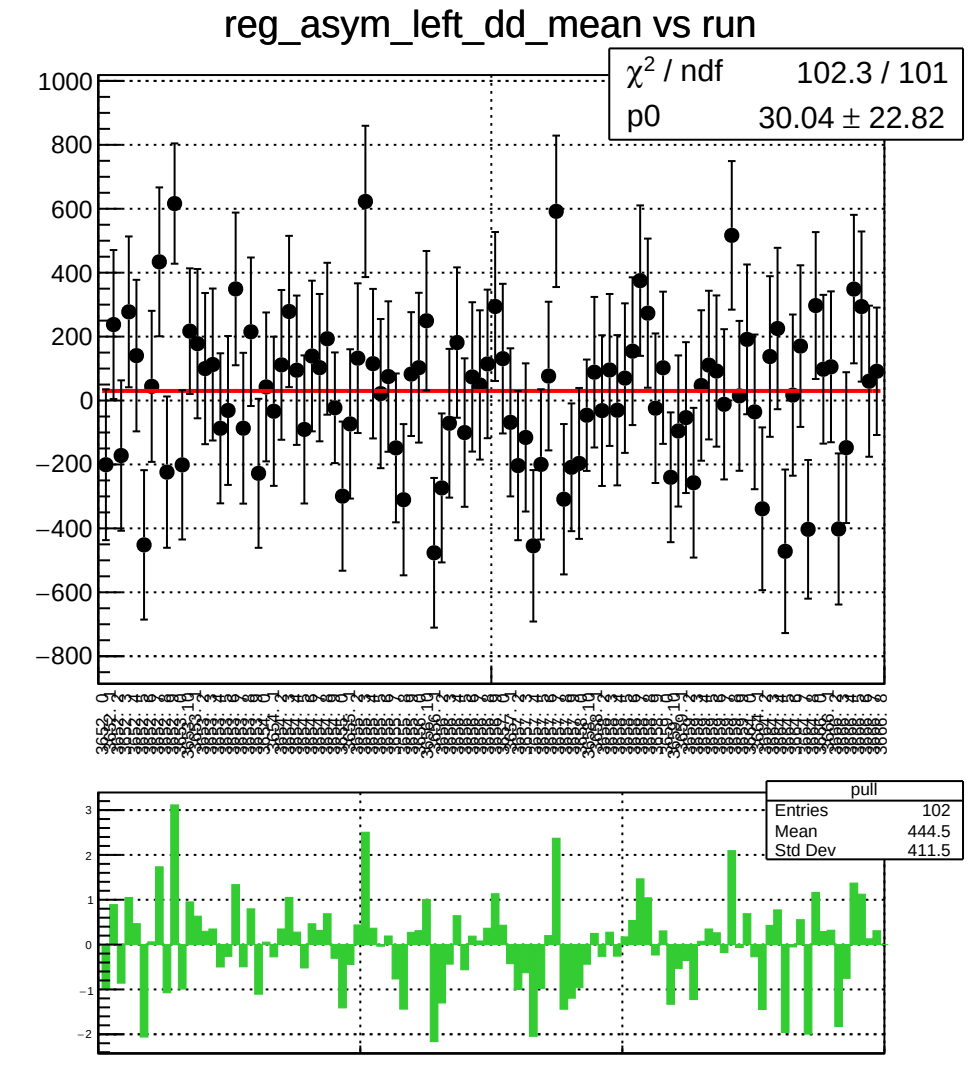

pull1D
Entries 102
Mean −0.0002867
Std Dev 1.1

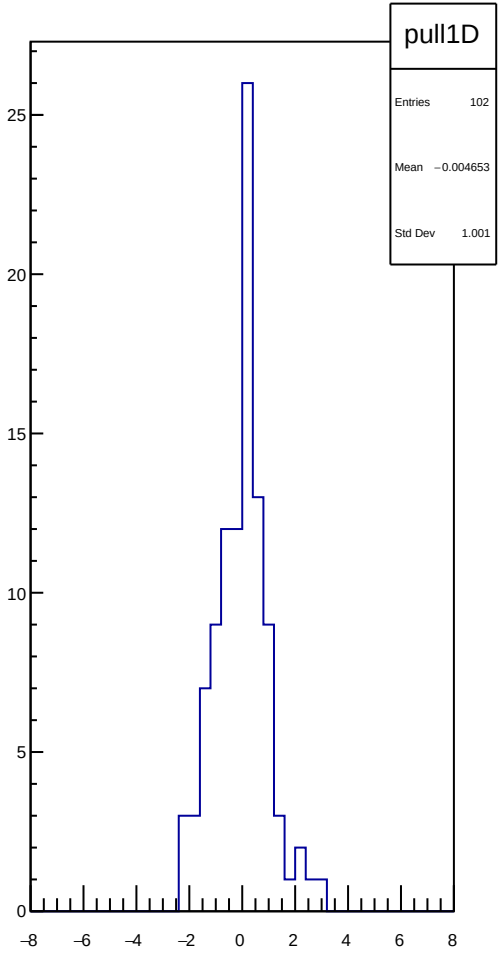

asym_left_avg_correction_rms vs run
χ² / ndf 3866 / 101
p0 497.4 ± 0.3593
580
560
540
520
500
480
460
440

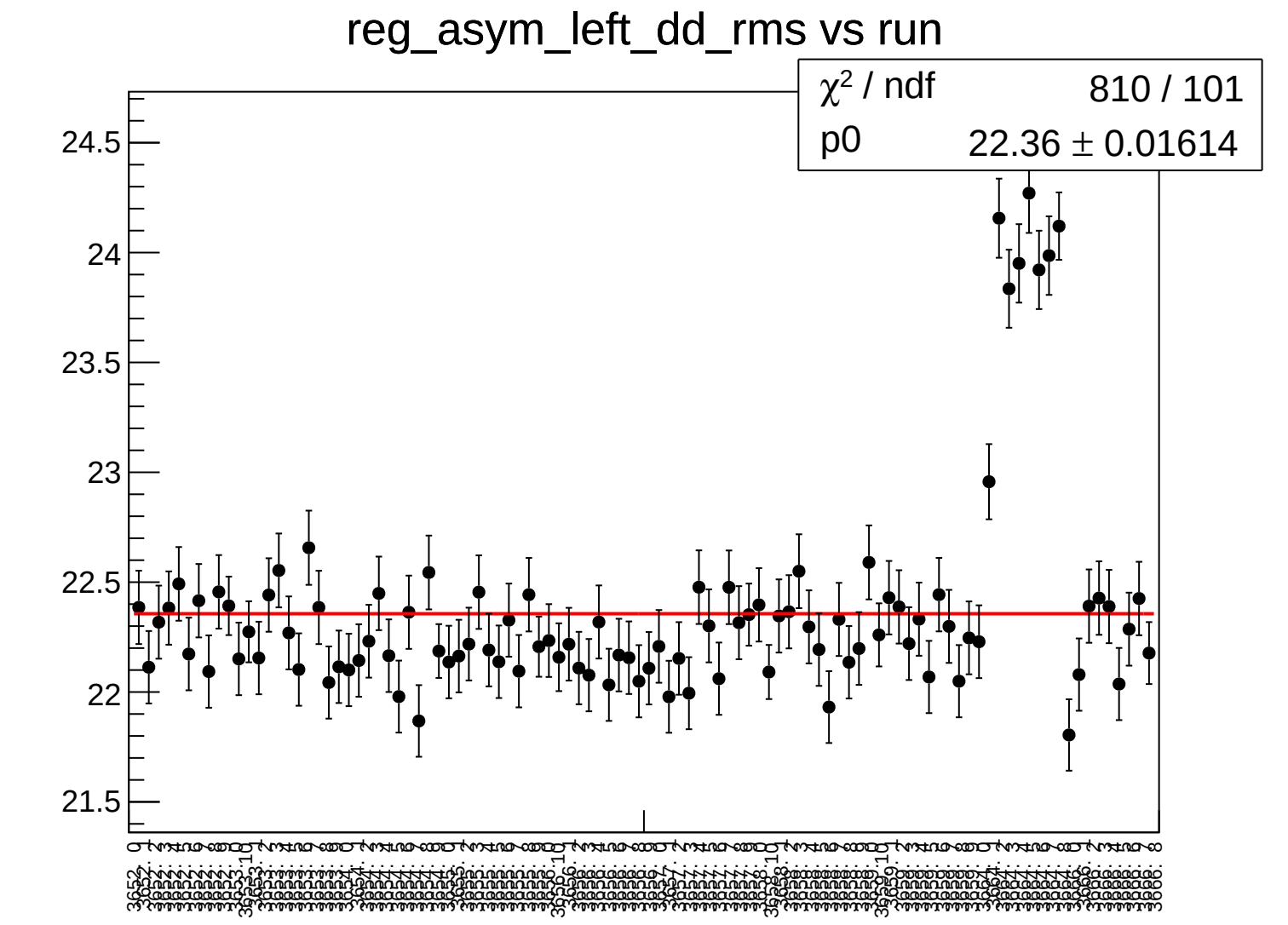

asym_left_avg_mean vs run
χ² / ndf 121.3 / 101
p0 901.9 ± 525.2
20000
10000
0
−10000
−20000
pull
Entries 102
Mean −4946
Std Dev 4970
3
2
1
0
−1
−2

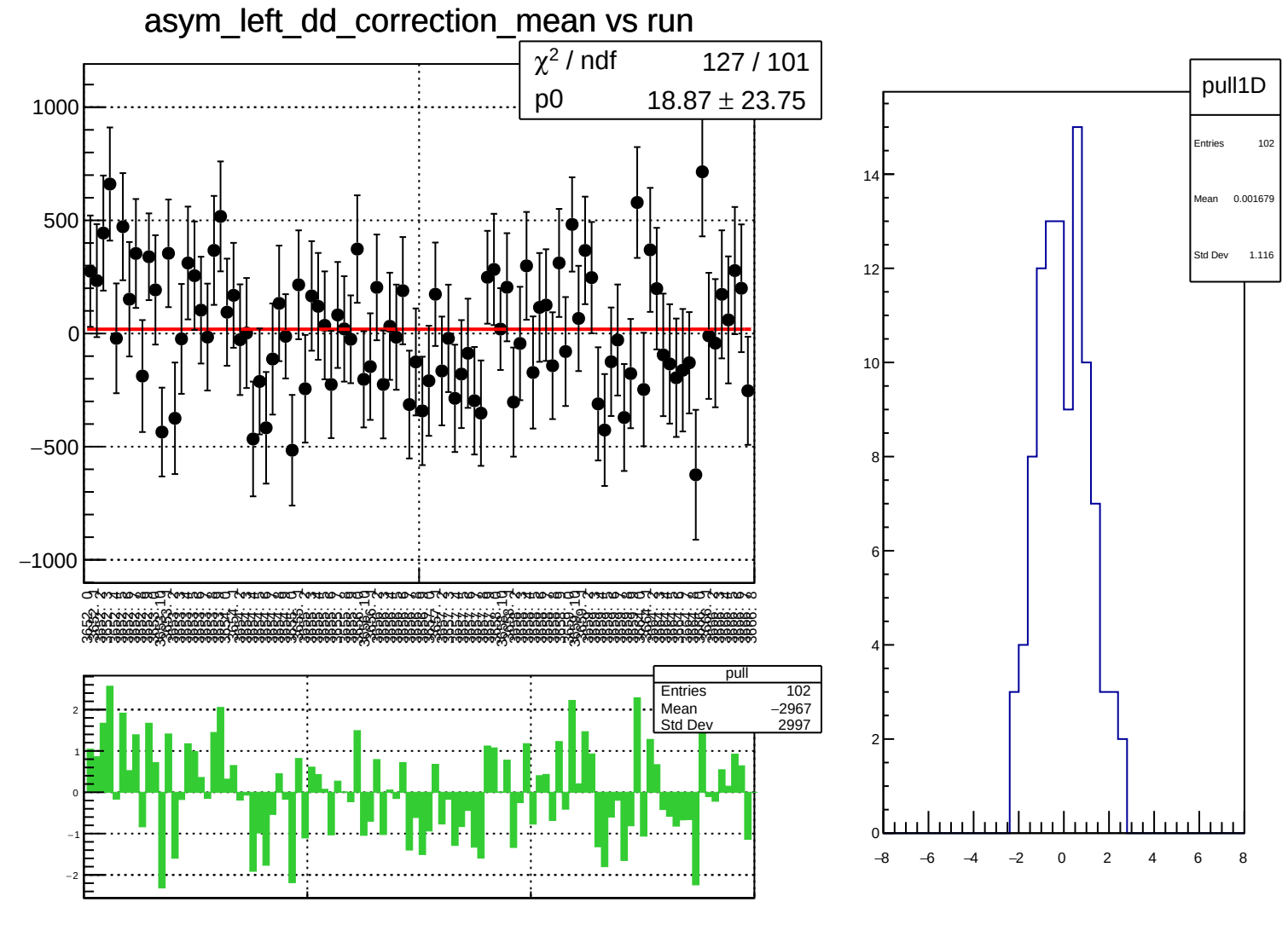

pull1D
Entries 102
Mean 0.0009331
Std Dev 1.09
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

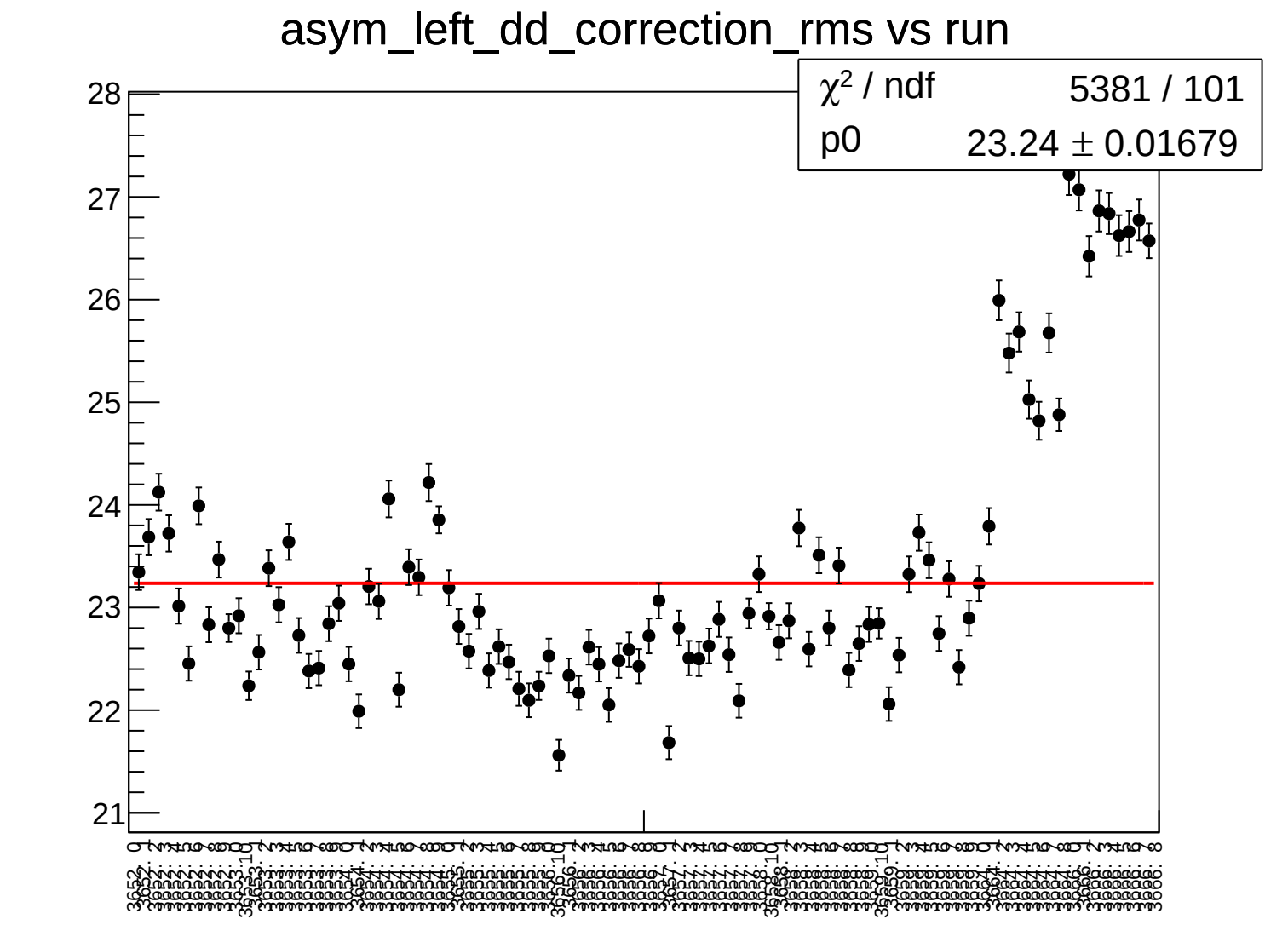

asym_left_avg_rms vs run
χ^2 / ndf 3474 / 101
p0 514.2 ± 0.3714
600
580
560
540
520
500
480
460

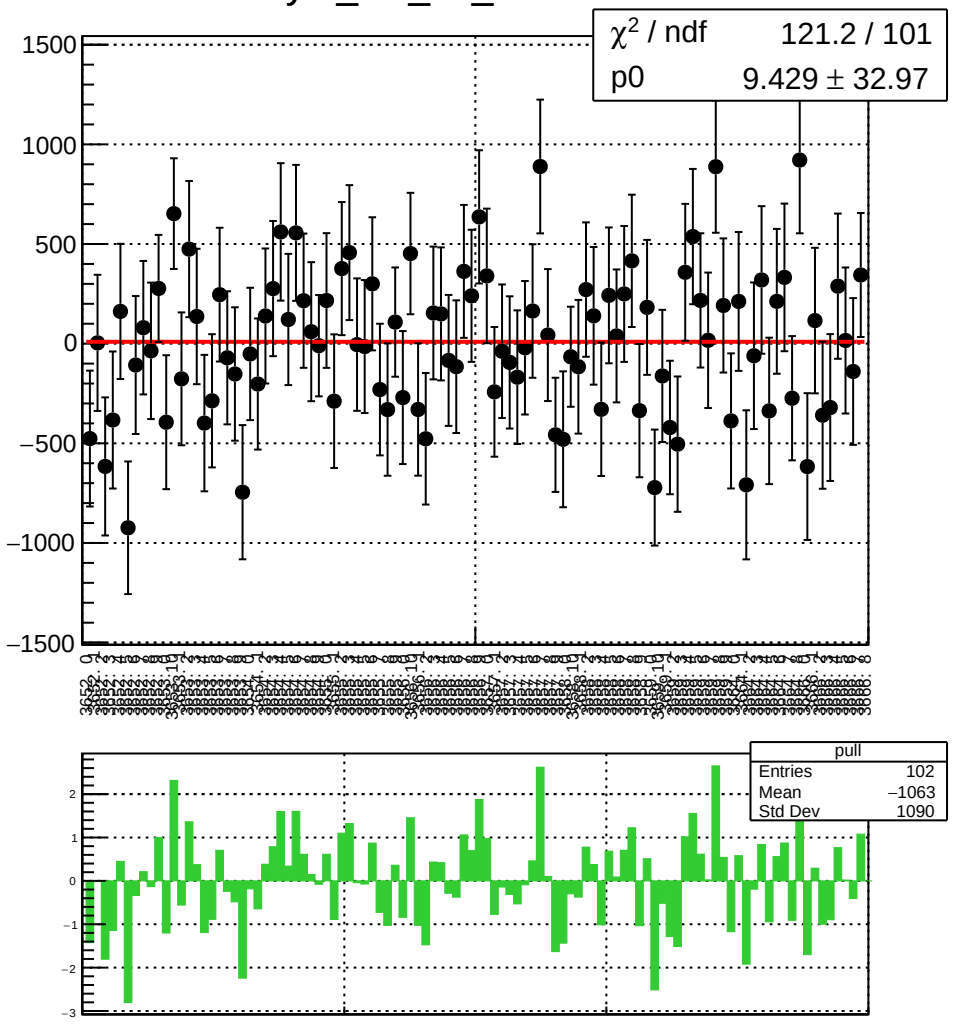

reg_asym_left_dd_mean vs run
χ² / ndf 102.3 / 101
p0 30.04 ± 22.82
pull
Entries 102
Mean 444.5
Std Dev 411.5

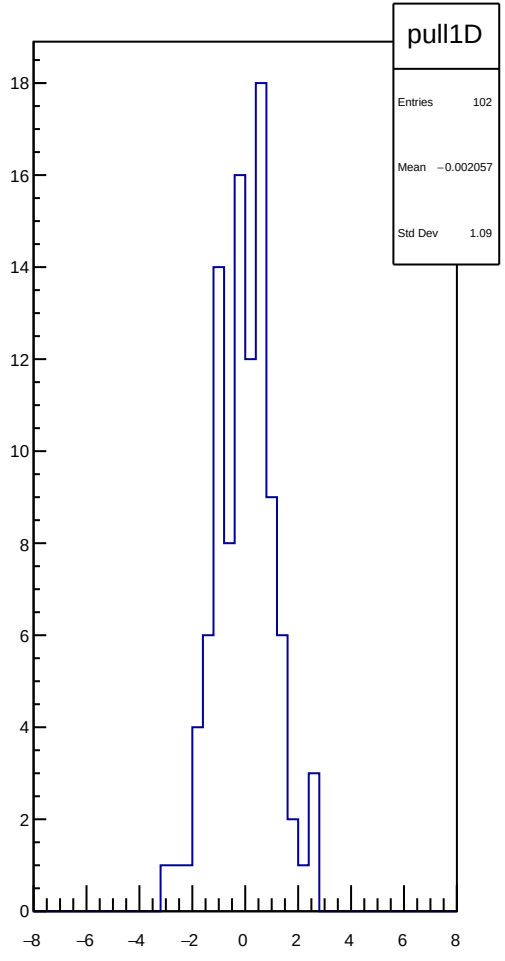

pull1D
Entries 102
Mean −0.004653
Std Dev 1.001

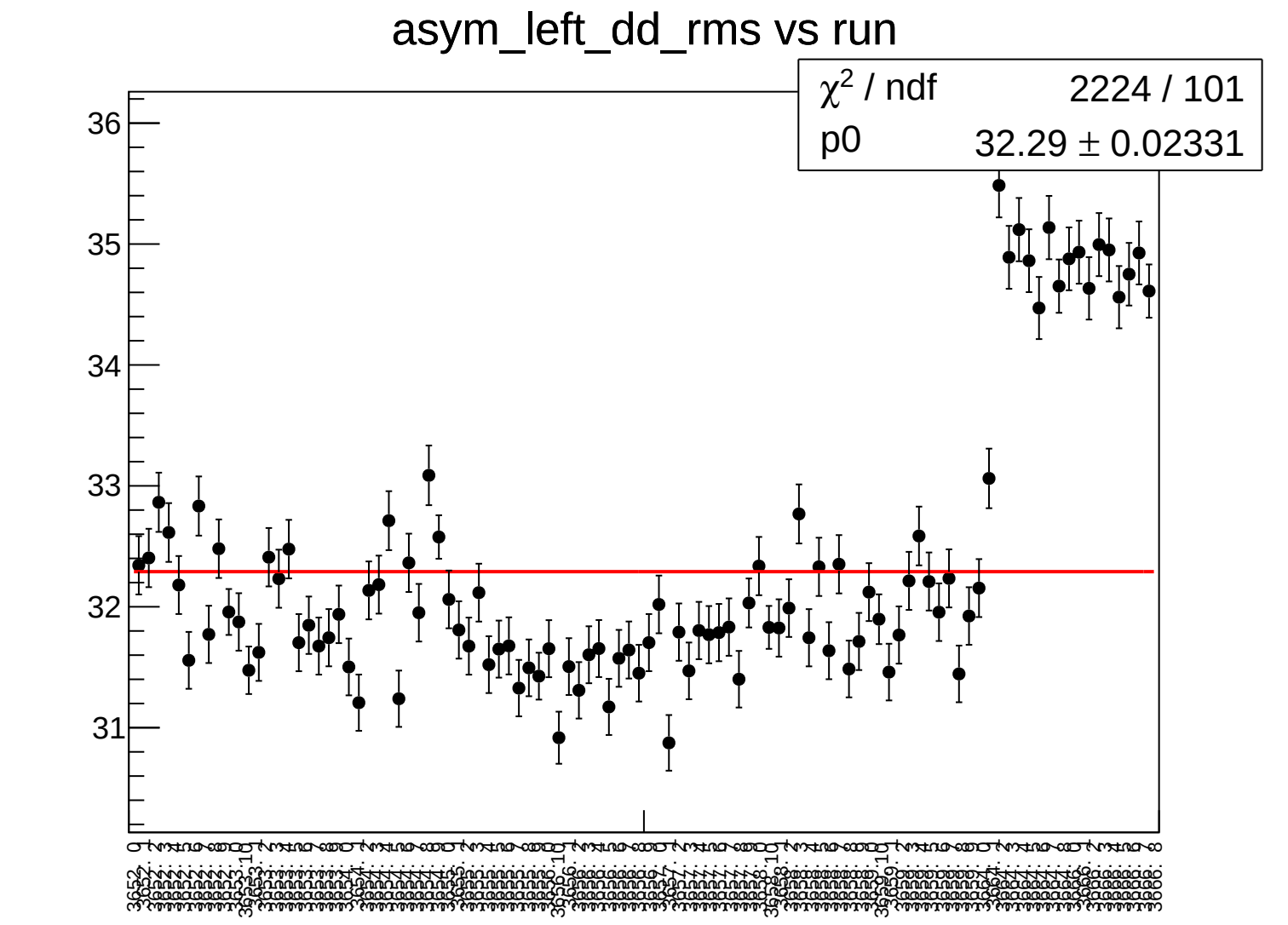

reg_asym_left_dd_rms vs run
χ² / ndf 810 / 101
p0 22.36 ± 0.01614
24.5
24
23.5
23
22.5
22
21.5

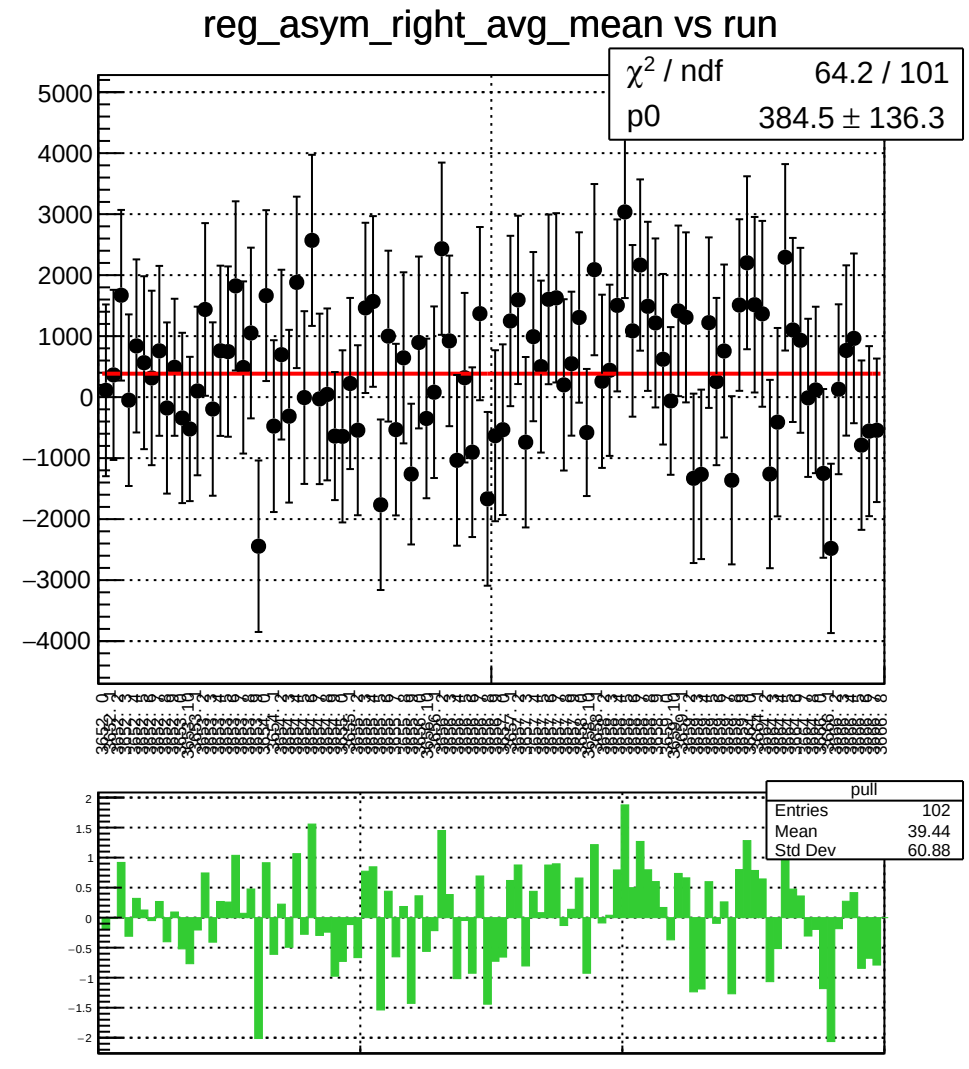

asym_left_dd_correction_mean vs run
χ² / ndf 127 / 101
p0 18.87 ± 23.75
1000
500
0
−500
−1000
pull
Entries 102
Mean −2967
Std Dev 2997
2
1
0
−1
−2
pull1D
Entries 102
Mean 0.001679
Std Dev 1.116
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

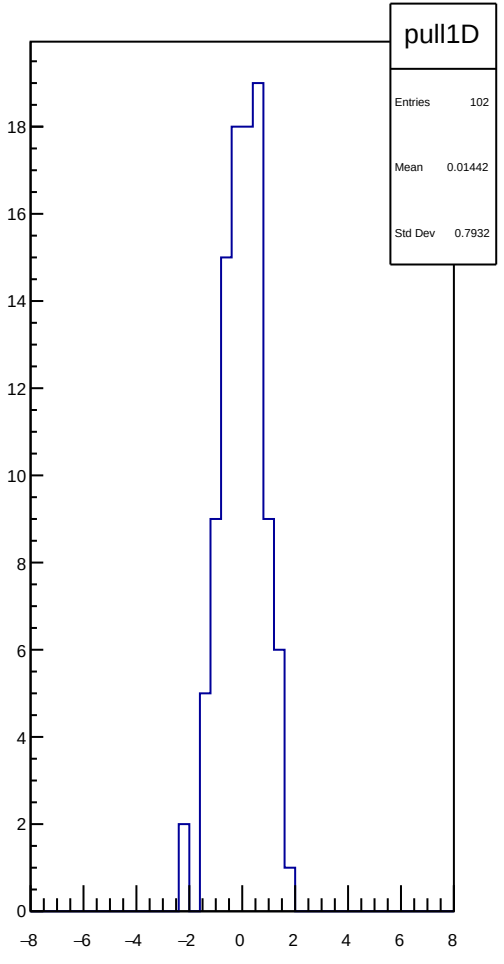

asym_left_dd_correction_rms vs run
χ² / ndf 5381 / 101
p0 23.24 ± 0.01679
28
27
26
25
24
23
22
21

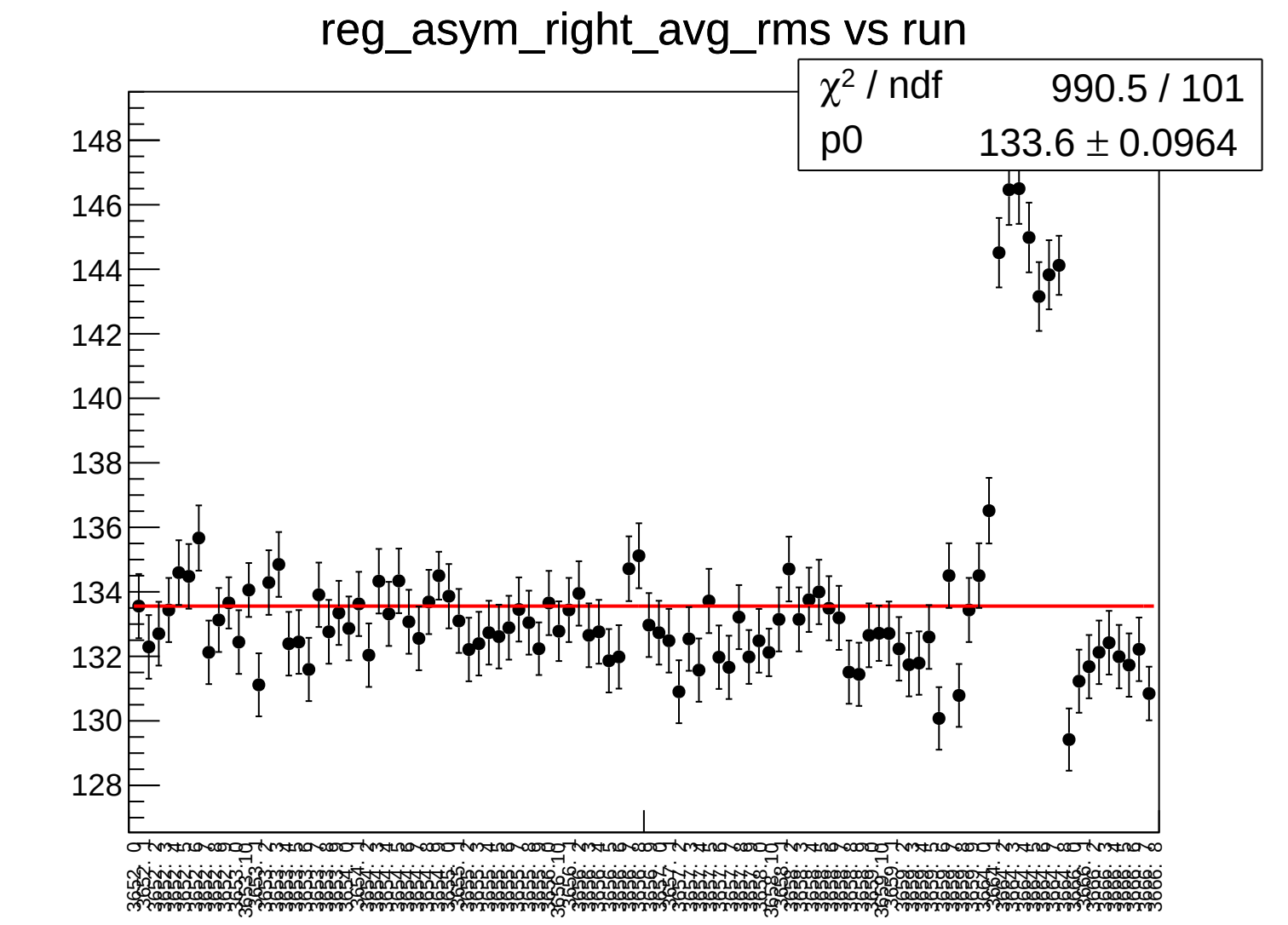

asym_left_dd_mean vs run
χ^2 / ndf 121.2 / 101
p0 9.429 ± 32.97
pull
Entries 102
Mean −1063
Std Dev 1090

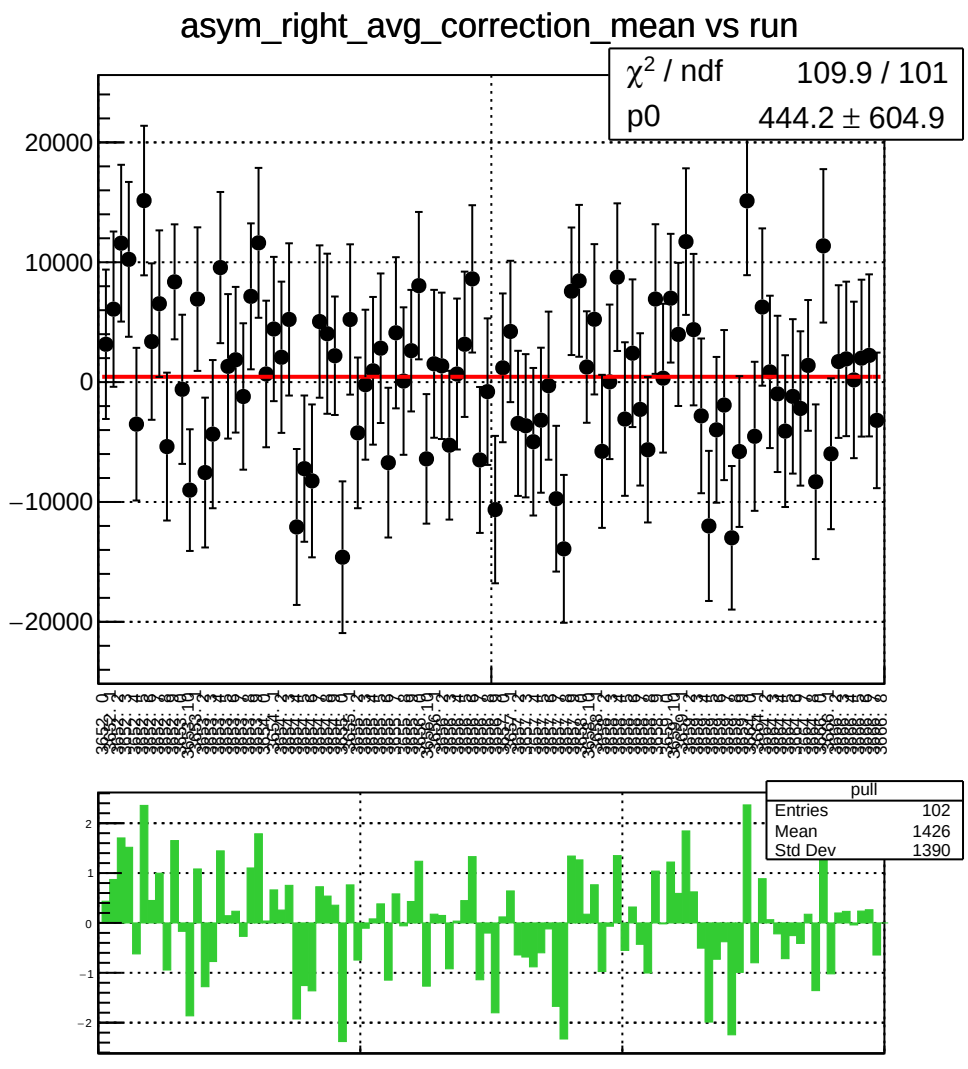

pull1D
Entries 102
Mean −0.002057
Std Dev 1.09

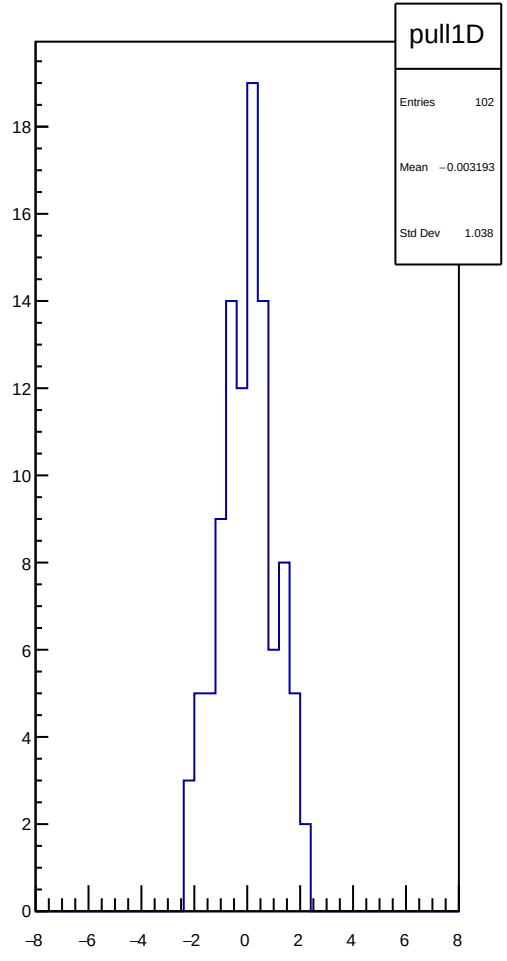

asym_left_dd_rms vs run
χ^2 / ndf 2224 / 101
p0 32.29 ± 0.02331
36
35
34
33
32
31

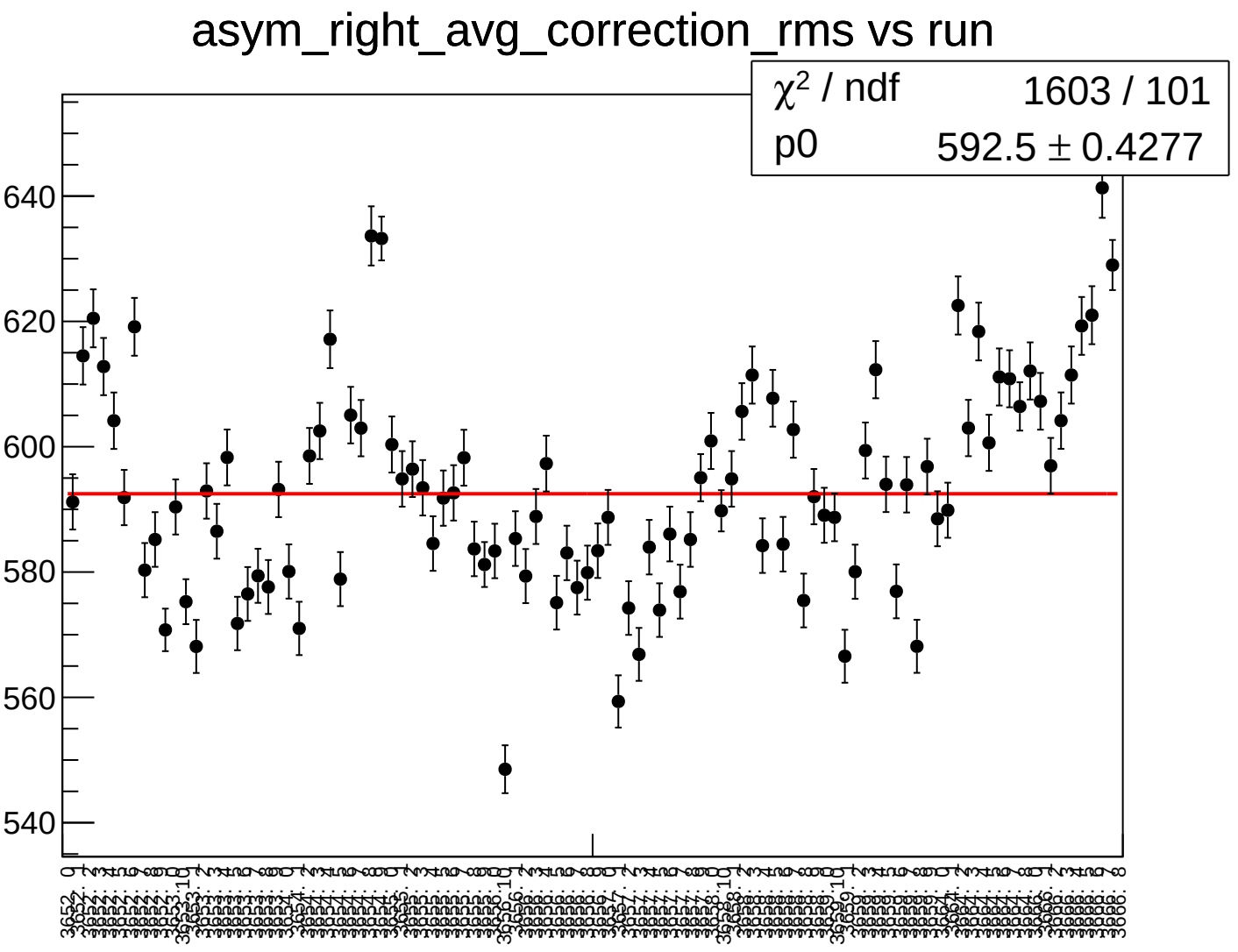

reg_asym_right_avg_mean vs run
χ² / ndf 64.2 / 101
p0 384.5 ± 136.3
pull
Entries 102
Mean 39.44
Std Dev 60.88

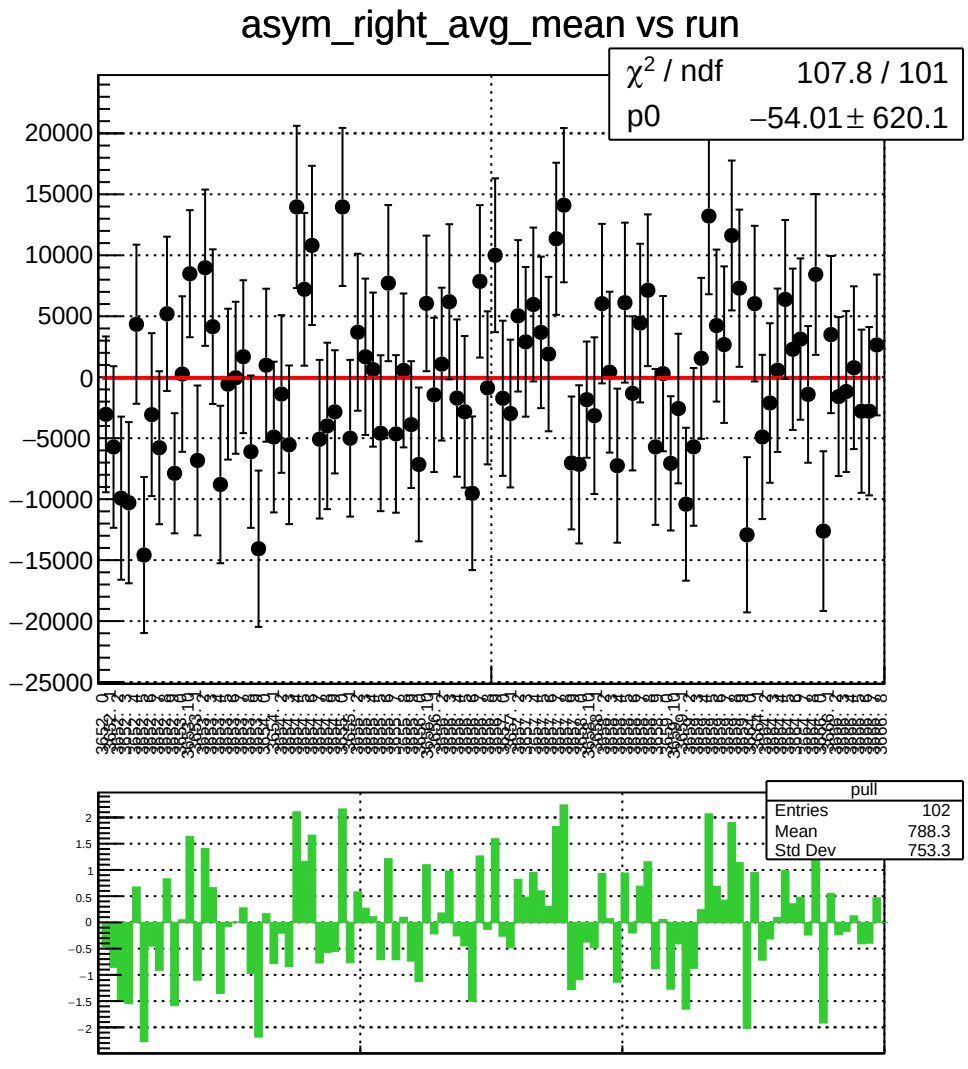

pull1D
Entries 102
Mean 0.01442
Std Dev 0.7932

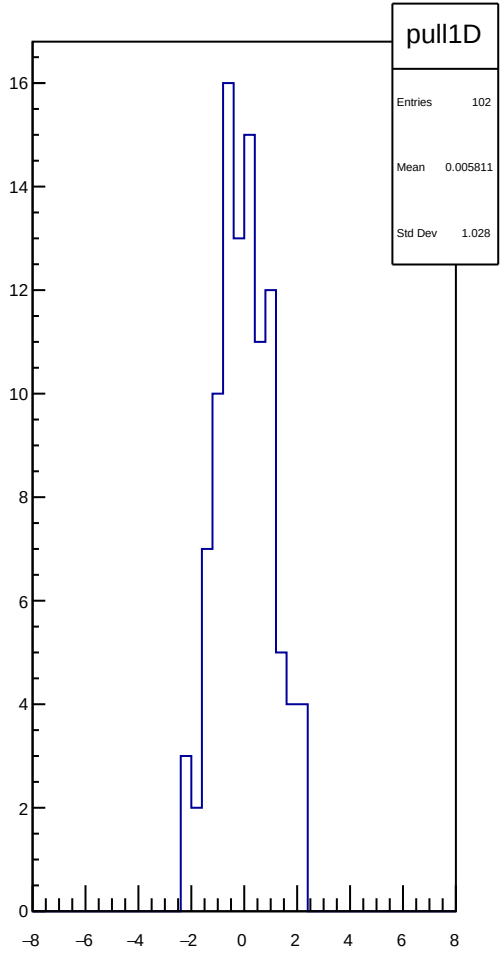

reg_asym_right_avg_rms vs run
χ^2 / ndf 990.5 / 101
p0 133.6 ± 0.0964
148
146
144
142
140
138
136
134
132
130
128

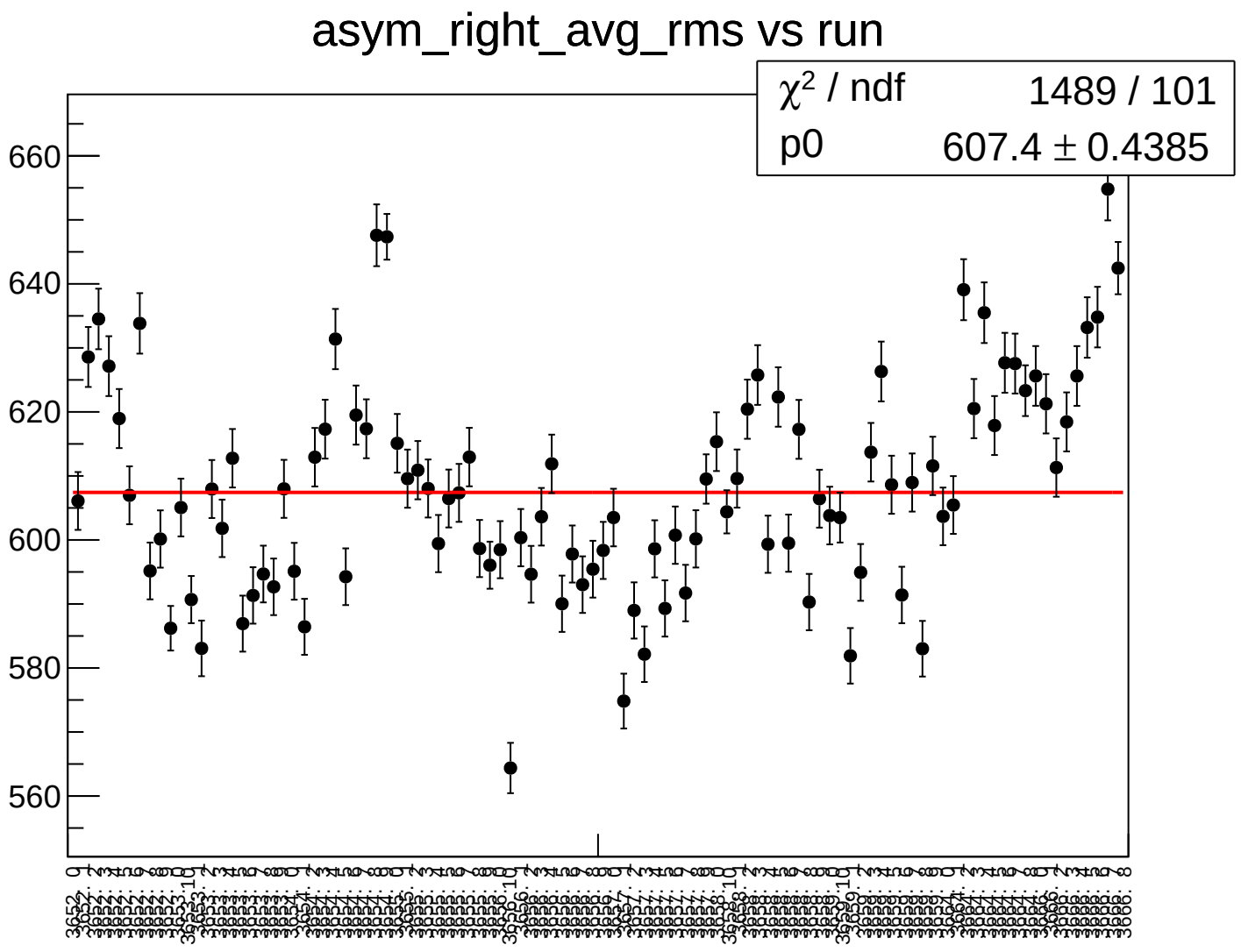

asym_right_avg_correction_mean vs run
χ² / ndf 109.9 / 101
p0 444.2 ± 604.9
20000
10000
0
−10000
−20000
pull
Entries 102
Mean 1426
Std Dev 1390
2
1
0
−1
−2

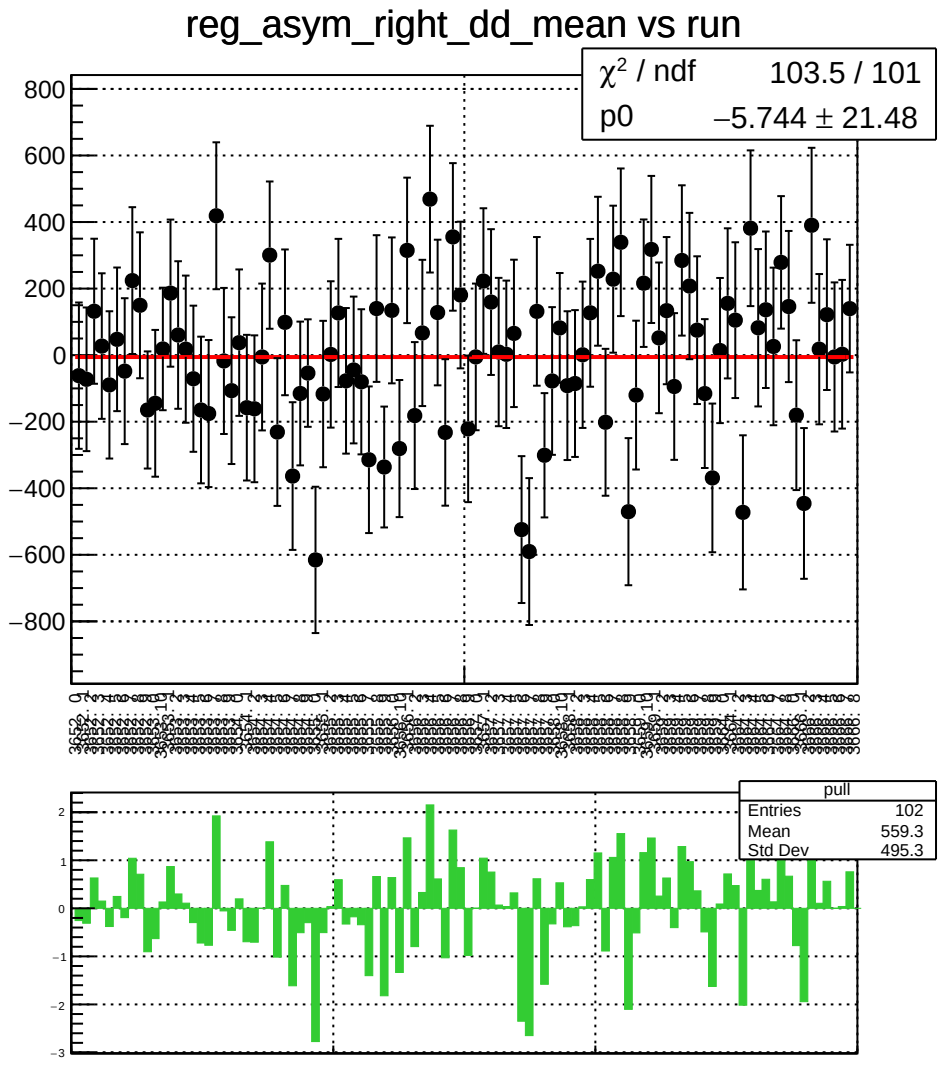

pull1D
Entries 102
Mean −0.003193
Std Dev 1.038
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

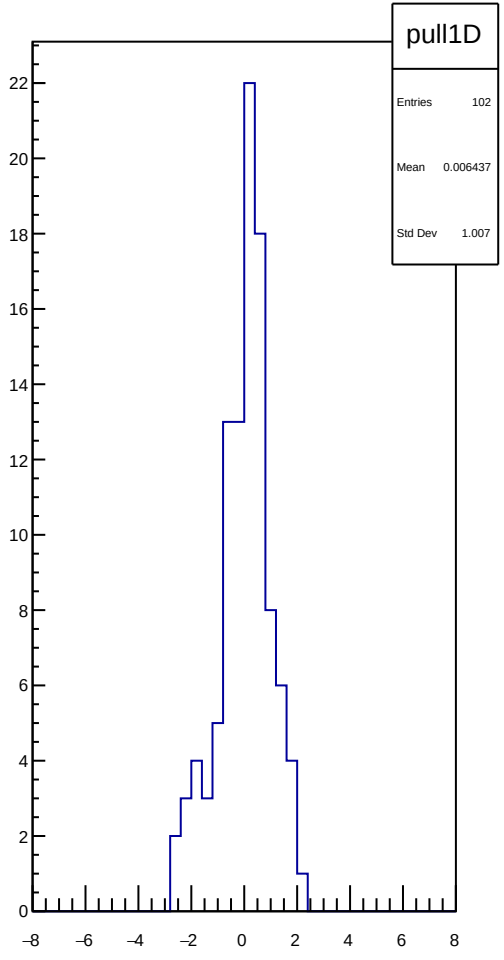

asym_right_avg_correction_rms vs run
χ^2 / ndf 1603 / 101
p0 592.5 ± 0.4277
640
620
600
580
560
540

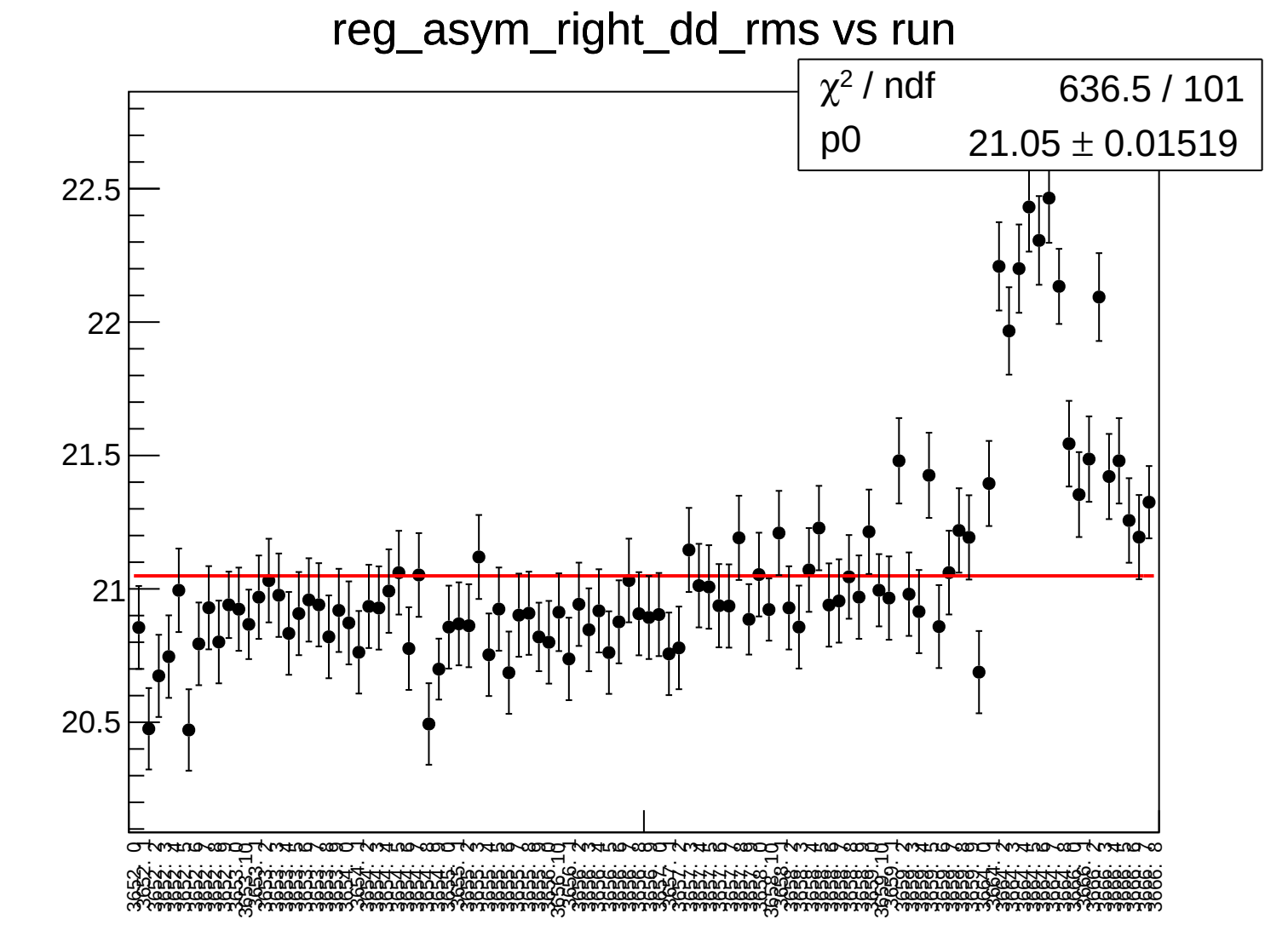

asym_right_avg_mean vs run
χ² / ndf 107.8 / 101
p0 −54.01 ± 620.1
pull
Entries 102
Mean 788.3
Std Dev 753.3

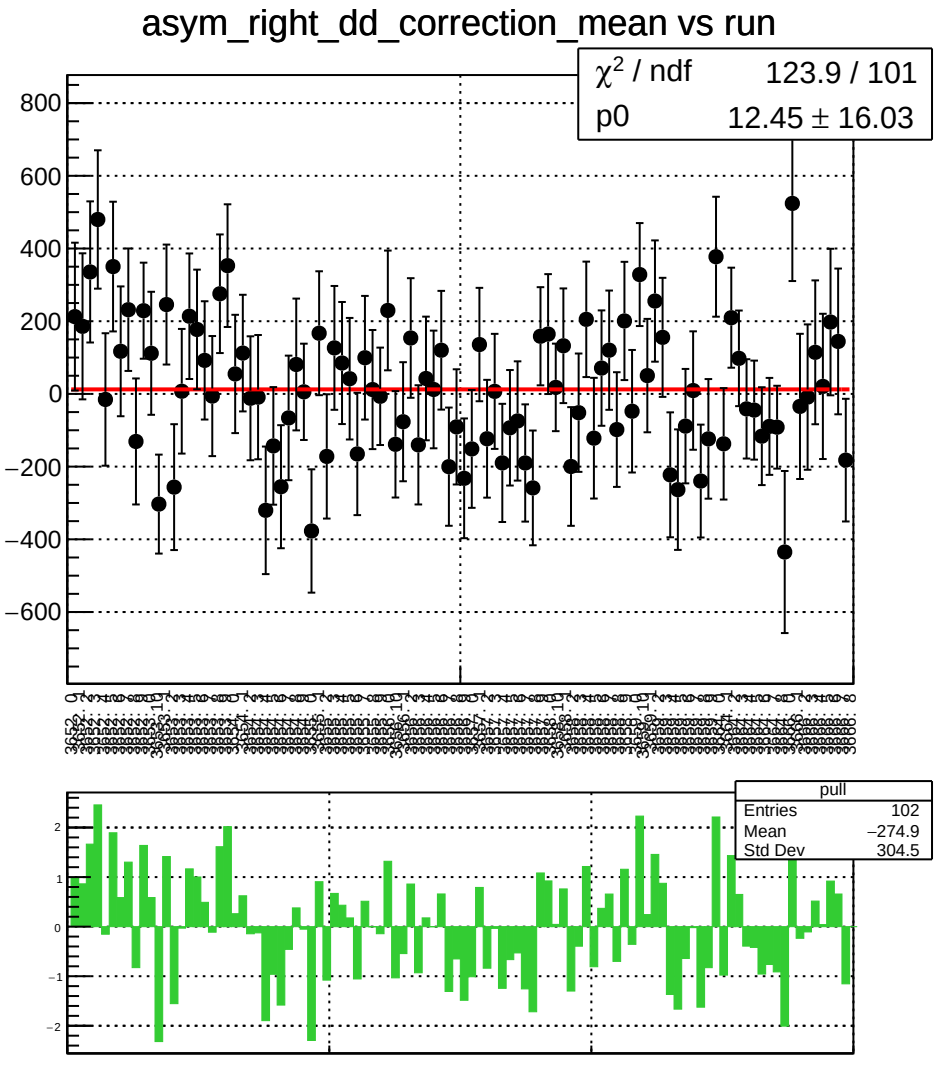

pull1D
Entries 102
Mean 0.005811
Std Dev 1.028

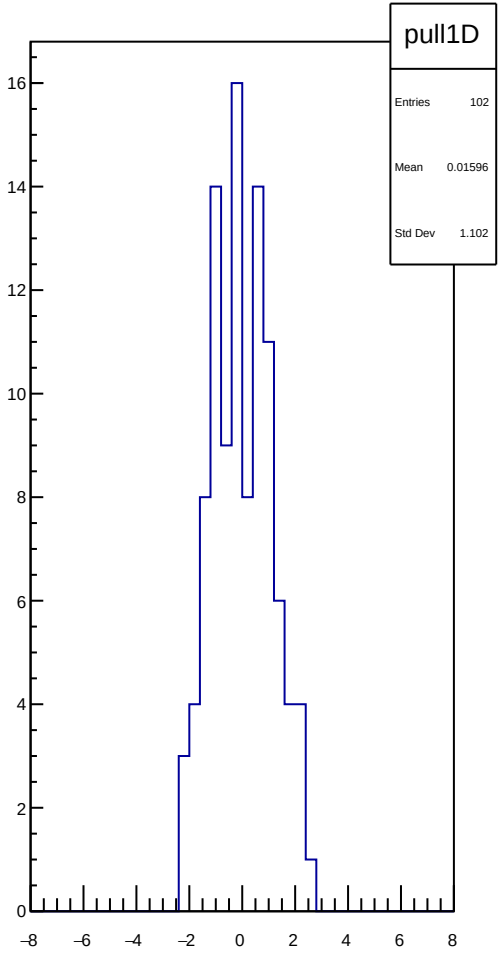

asym_right_avg_rms vs run
χ^2 / ndf 1489 / 101
p0 607.4 ± 0.4385
660
640
620
600
580
560

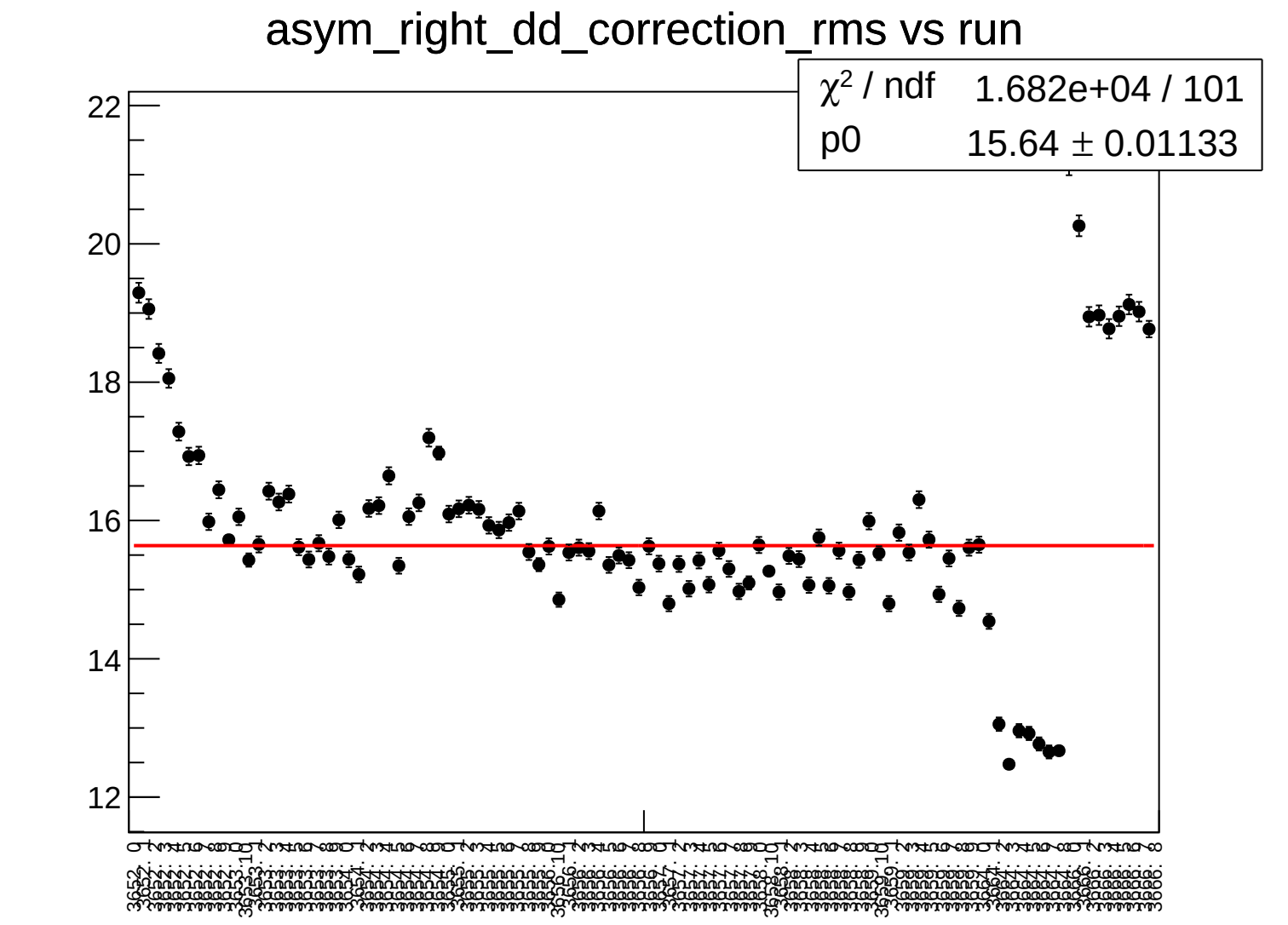

reg_asym_right_dd_mean vs run
χ² / ndf 103.5 / 101
p0 −5.744 ± 21.48
pull
Entries 102
Mean 559.3
Std Dev 495.3

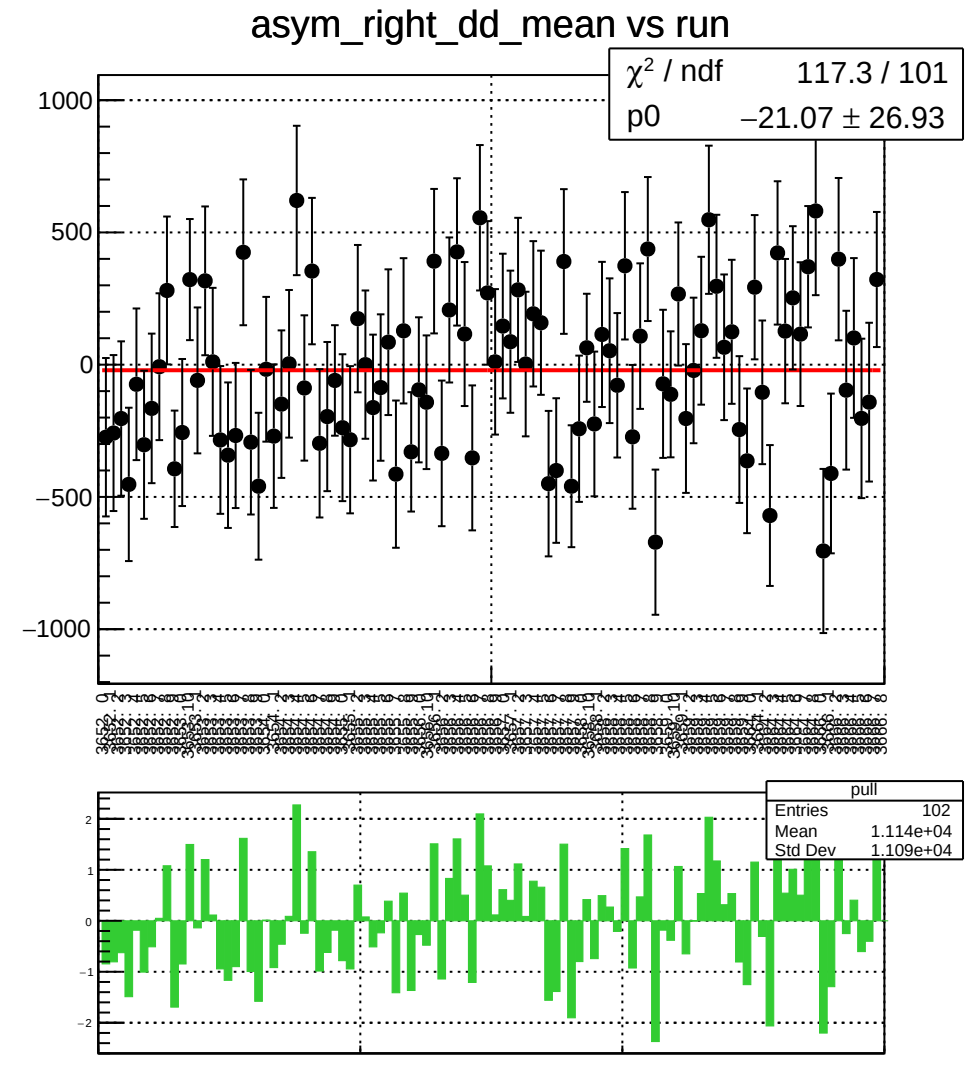

pull1D
Entries 102
Mean 0.006437
Std Dev 1.007

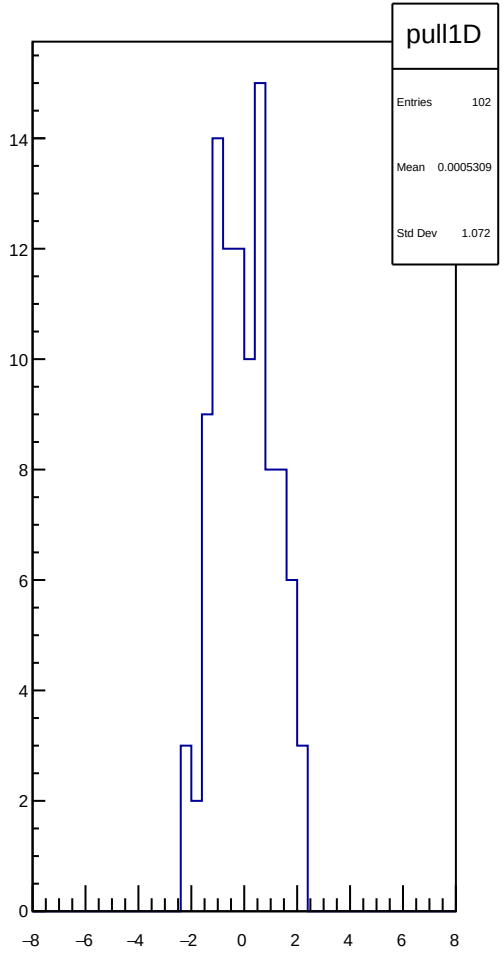

reg_asym_right_dd_rms vs run
χ^2 / ndf 636.5 / 101
p0 21.05 ± 0.01519
22.5
22
21.5
21
20.5

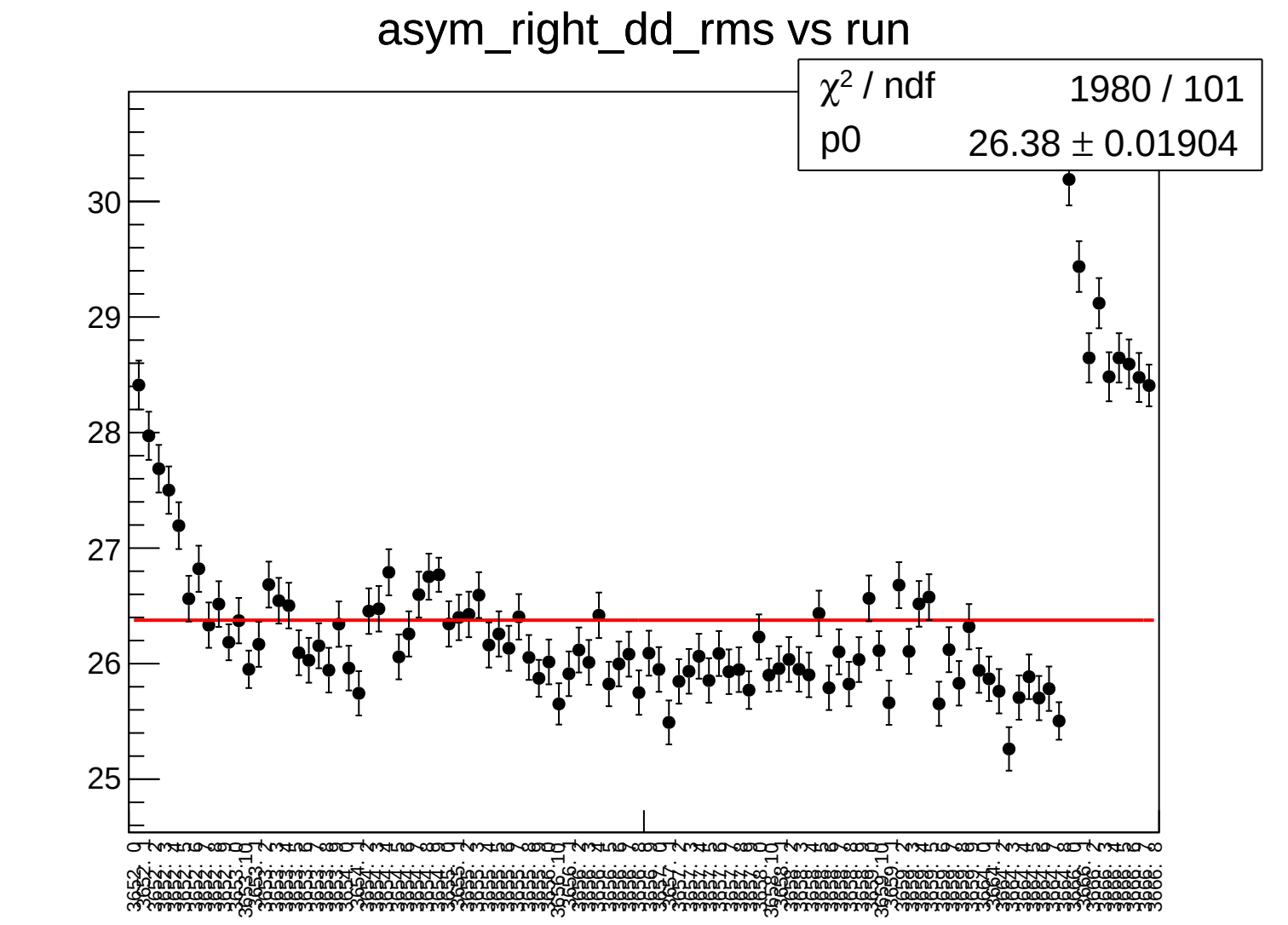

asym_right_dd_correction_mean vs run
χ² / ndf 123.9 / 101
p0 12.45 ± 16.03
pull
Entries 102
Mean −274.9
Std Dev 304.5

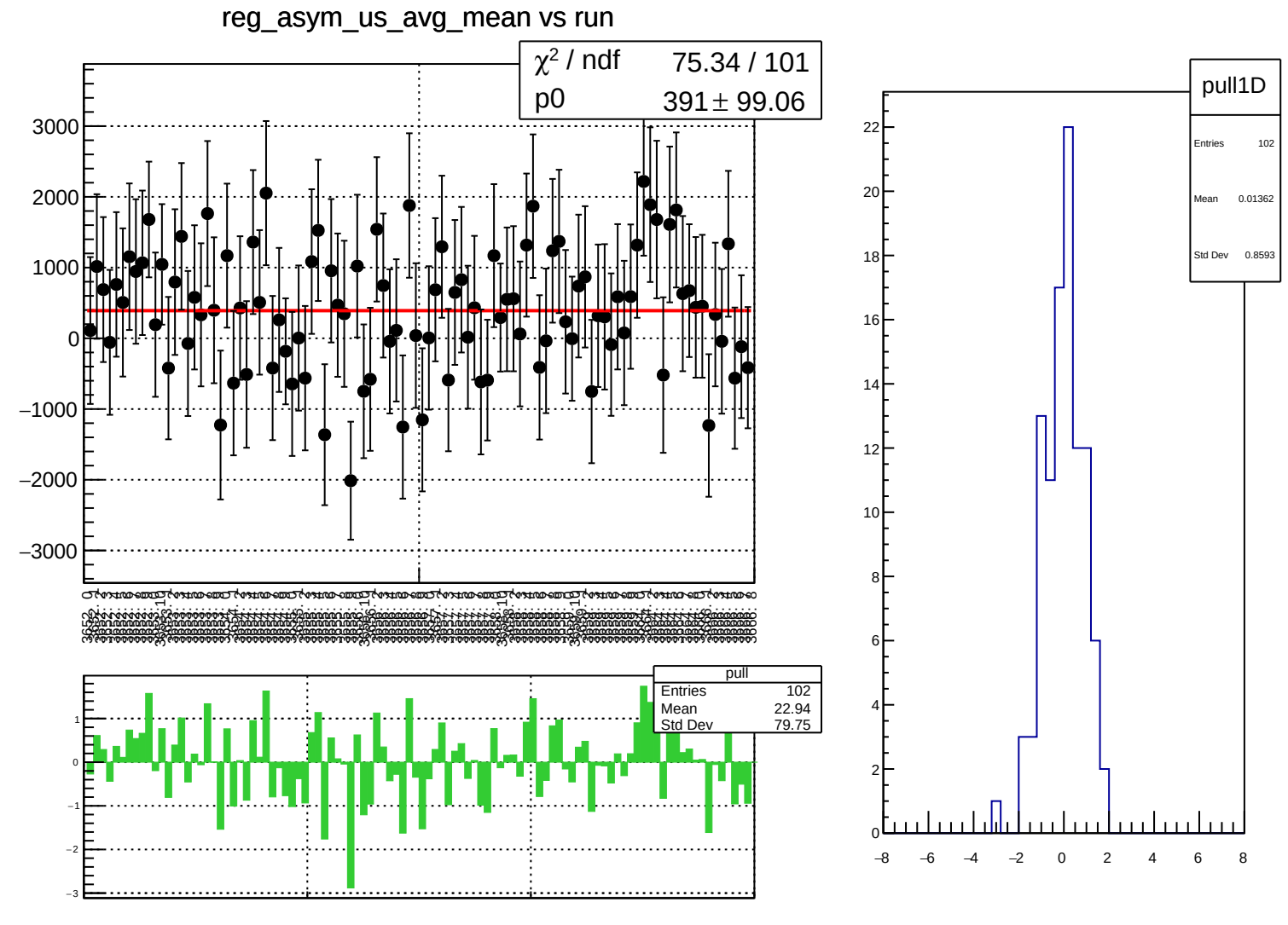

pull1D
Entries 102
Mean 0.01596
Std Dev 1.102

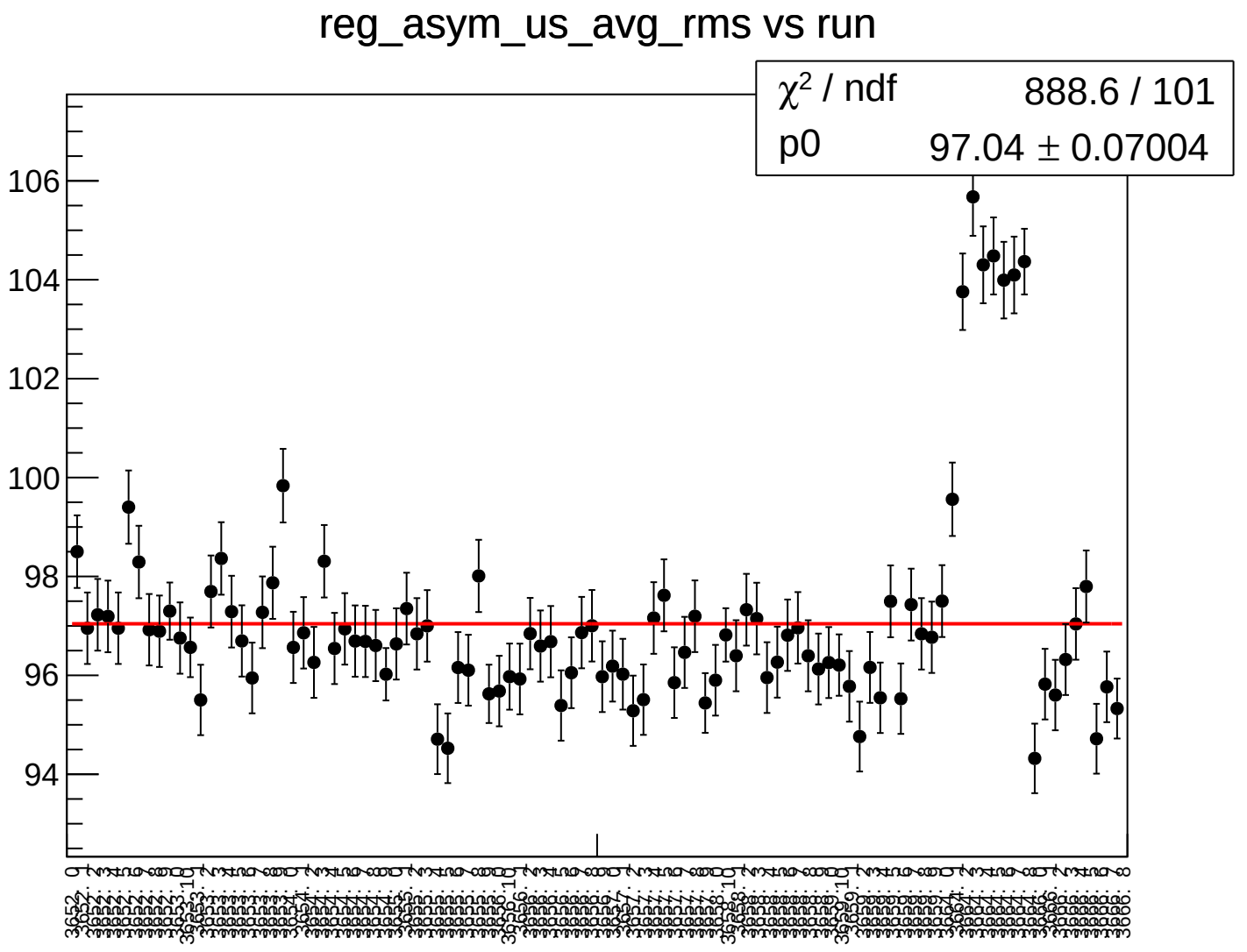

asym_right_dd_correction_rms vs run
χ² / ndf 1.682e+04 / 101
p0 15.64 ± 0.01133
22
20
18
16
14
12

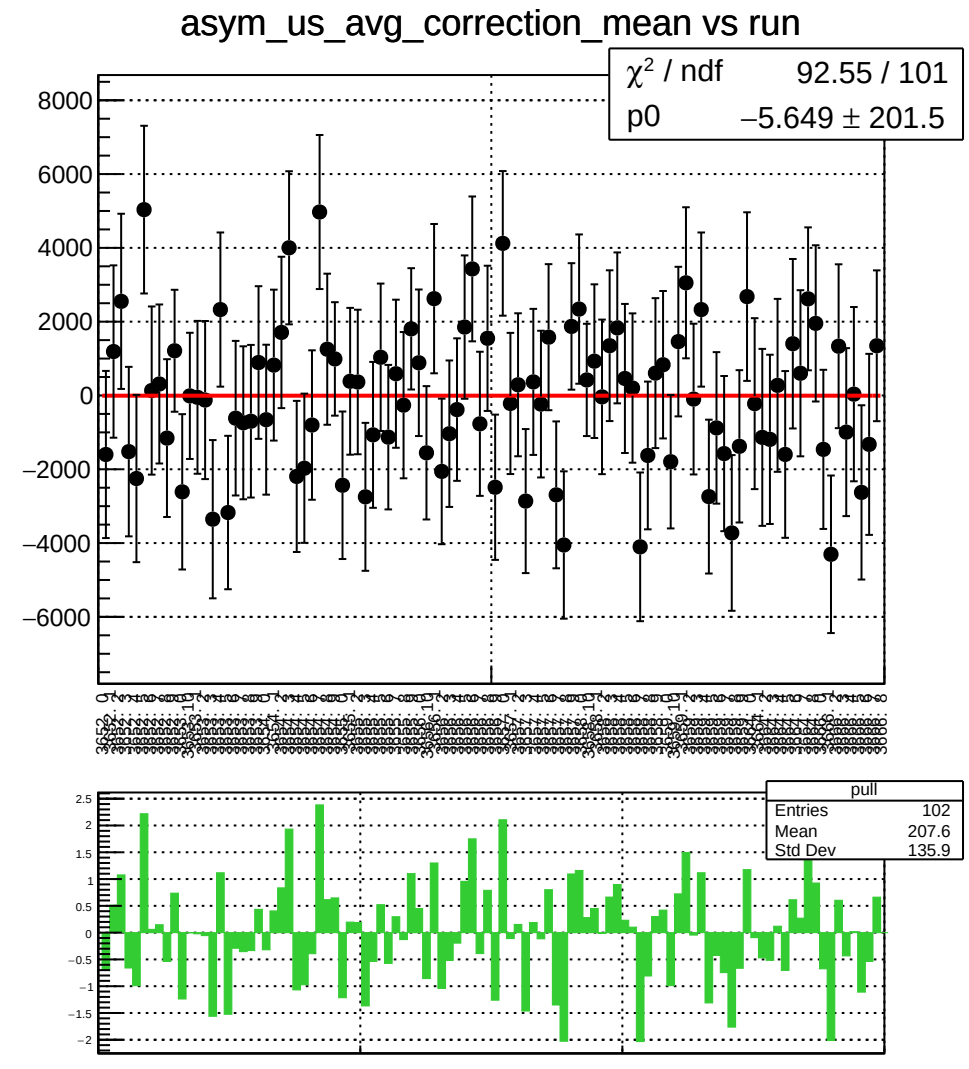

asym_right_dd_mean vs run
χ² / ndf 117.3 / 101
p0 −21.07 ± 26.93
1000
500
0
−500
−1000
pull
Entries 102
Mean 1.114e+04
Std Dev 1.109e+04
2
1
0
−1
−2

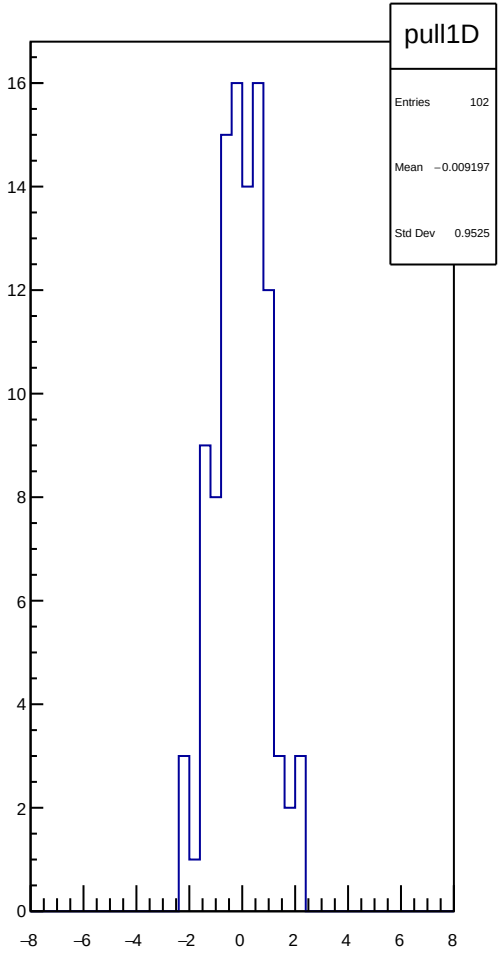

pull1D
Entries 102
Mean 0.0005309
Std Dev 1.072
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

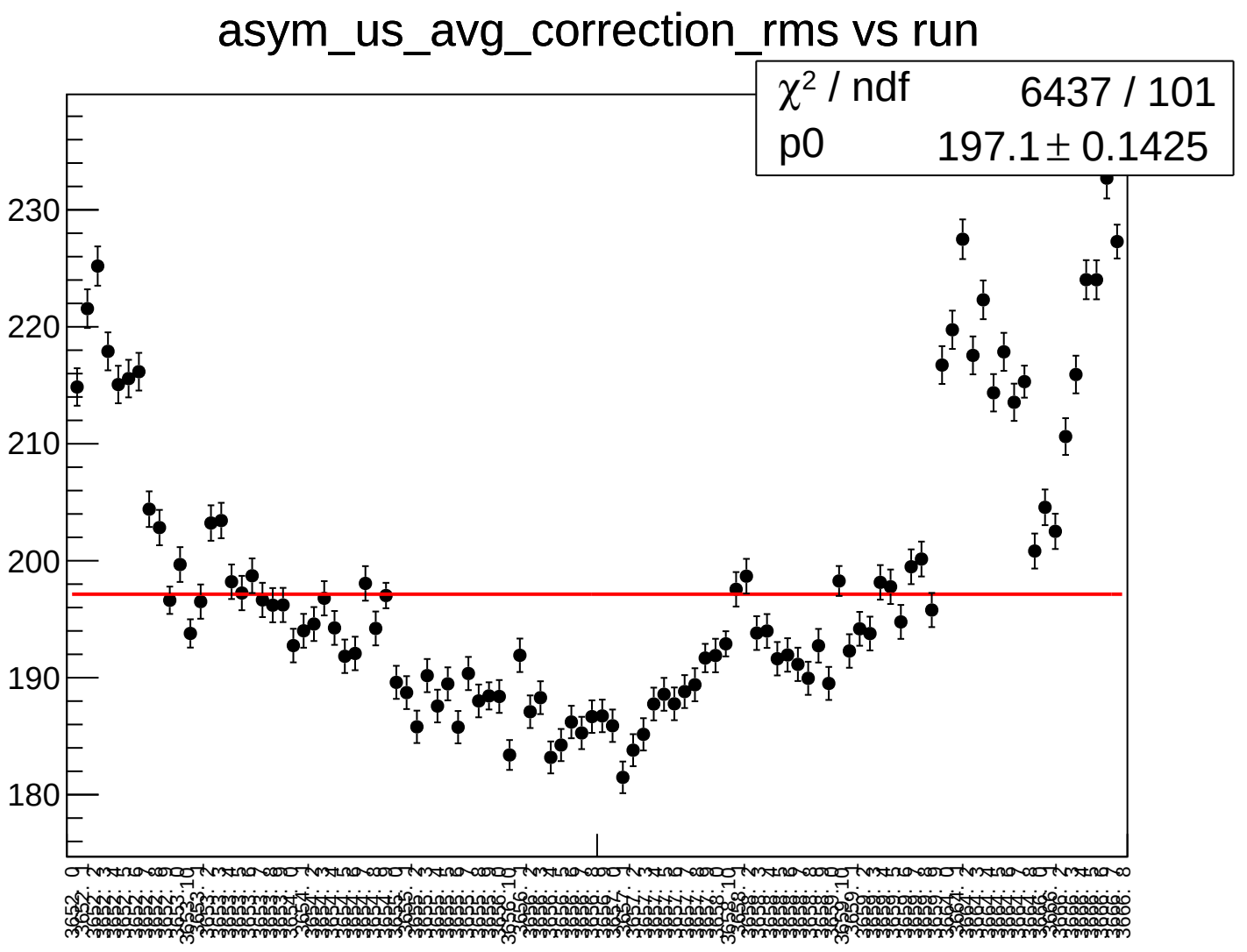

asym_right_dd_rms vs run
χ^2 / ndf 1980 / 101
p0 26.38 ± 0.01904
30
29
28
27
26
25

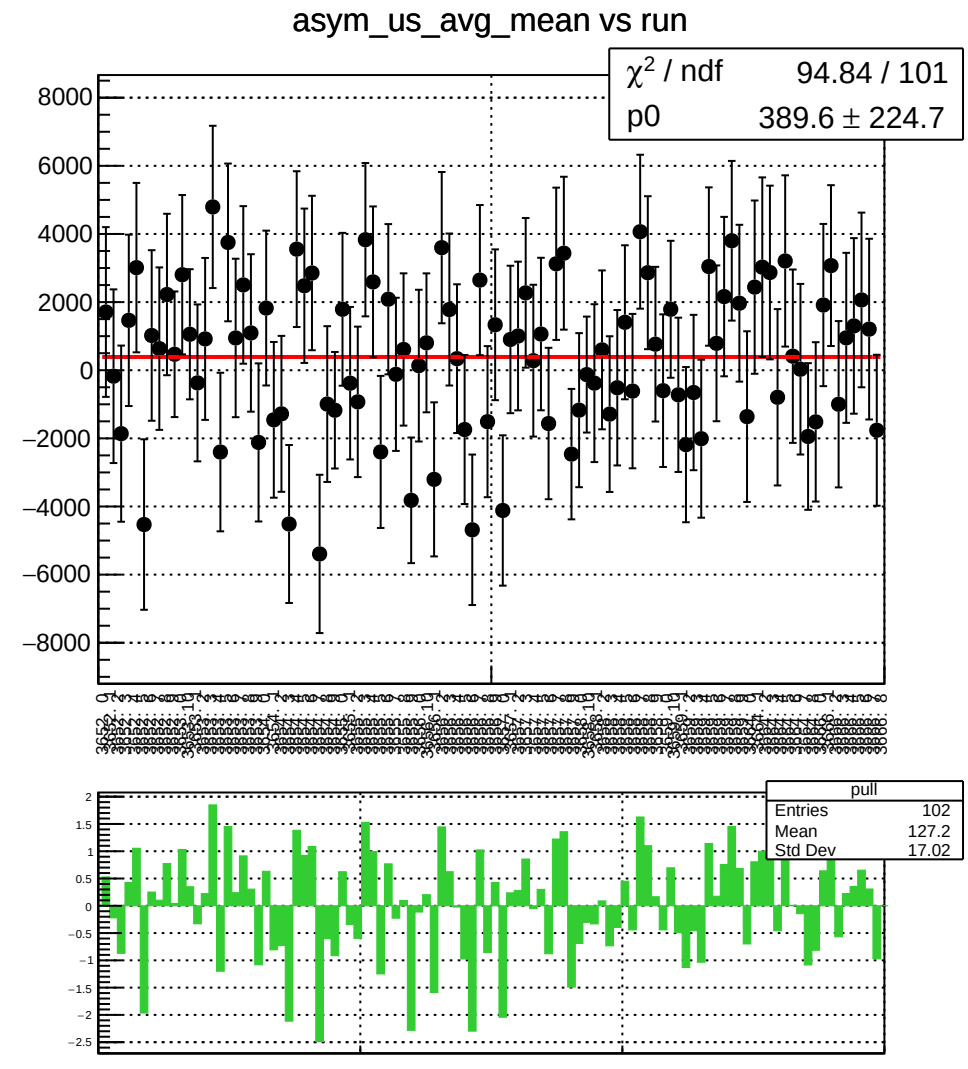

reg_asym_us_avg_mean vs run
χ² / ndf 75.34 / 101
p0 391 ± 99.06
pull
Entries 102
Mean 22.94
Std Dev 79.75
pull1D
Entries 102
Mean 0.01362
Std Dev 0.8593

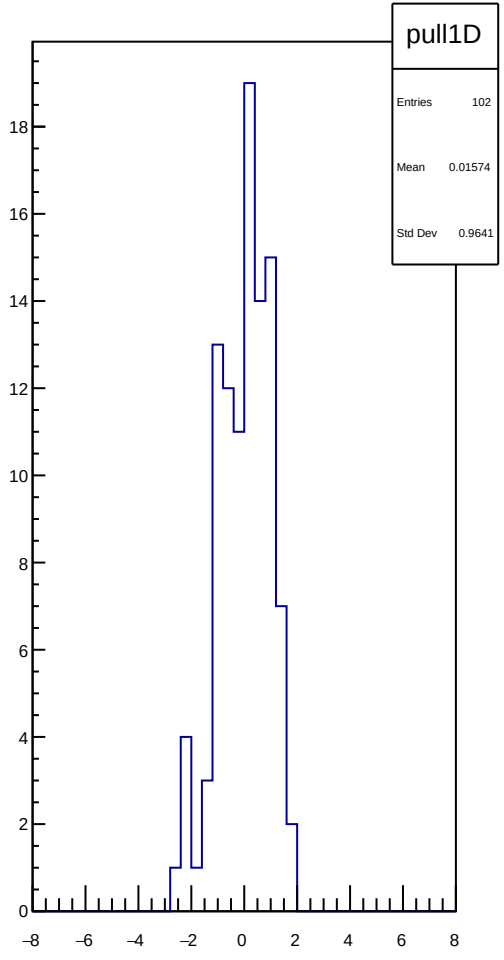

reg_asym_us_avg_rms vs run
χ^2 / ndf 888.6 / 101
p0 97.04 ± 0.07004
106
104
102
100
98
96
94

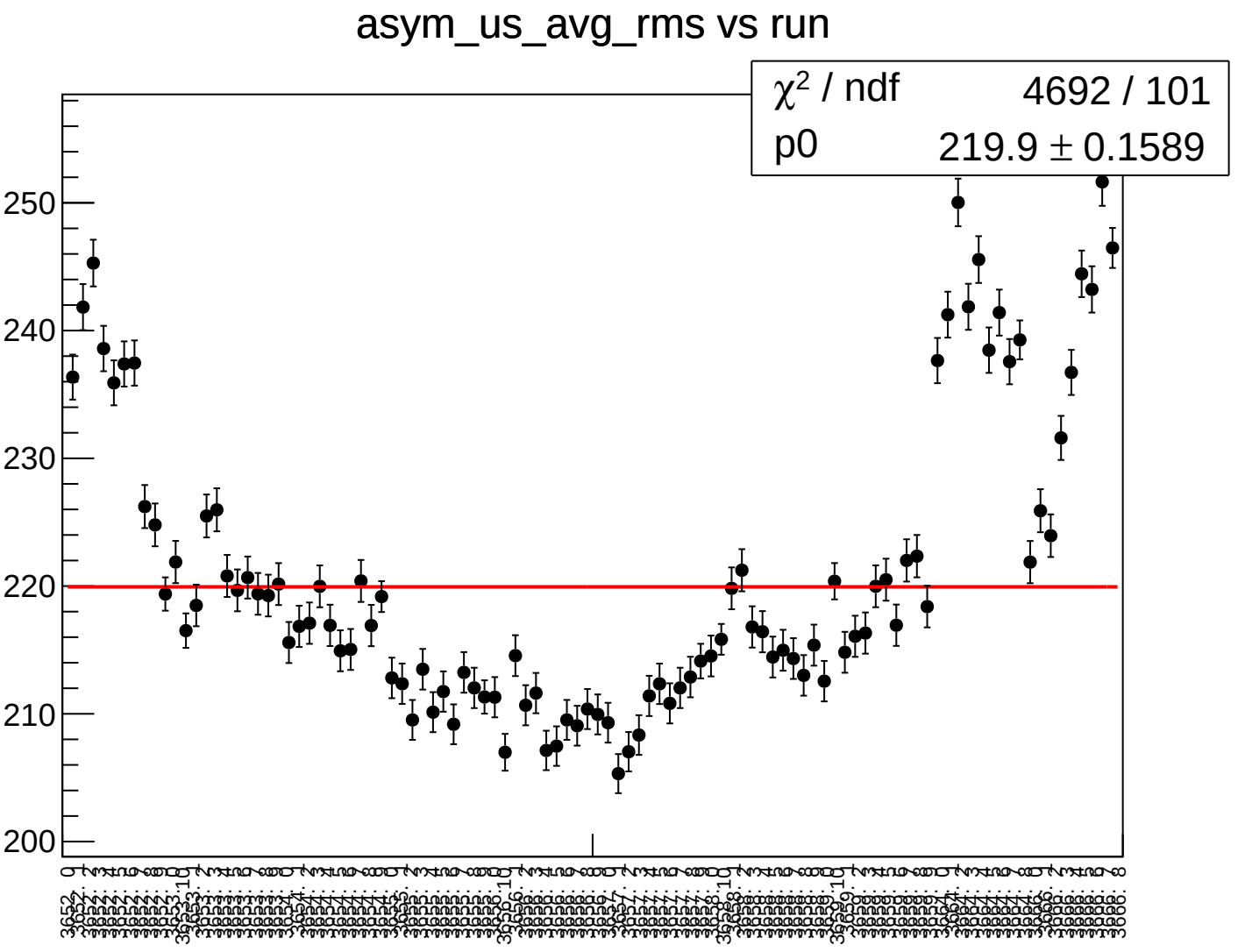

asym_us_avg_correction_mean vs run
χ² / ndf 92.55 / 101
p0 −5.649 ± 201.5
pull
Entries 102
Mean 207.6
Std Dev 135.9

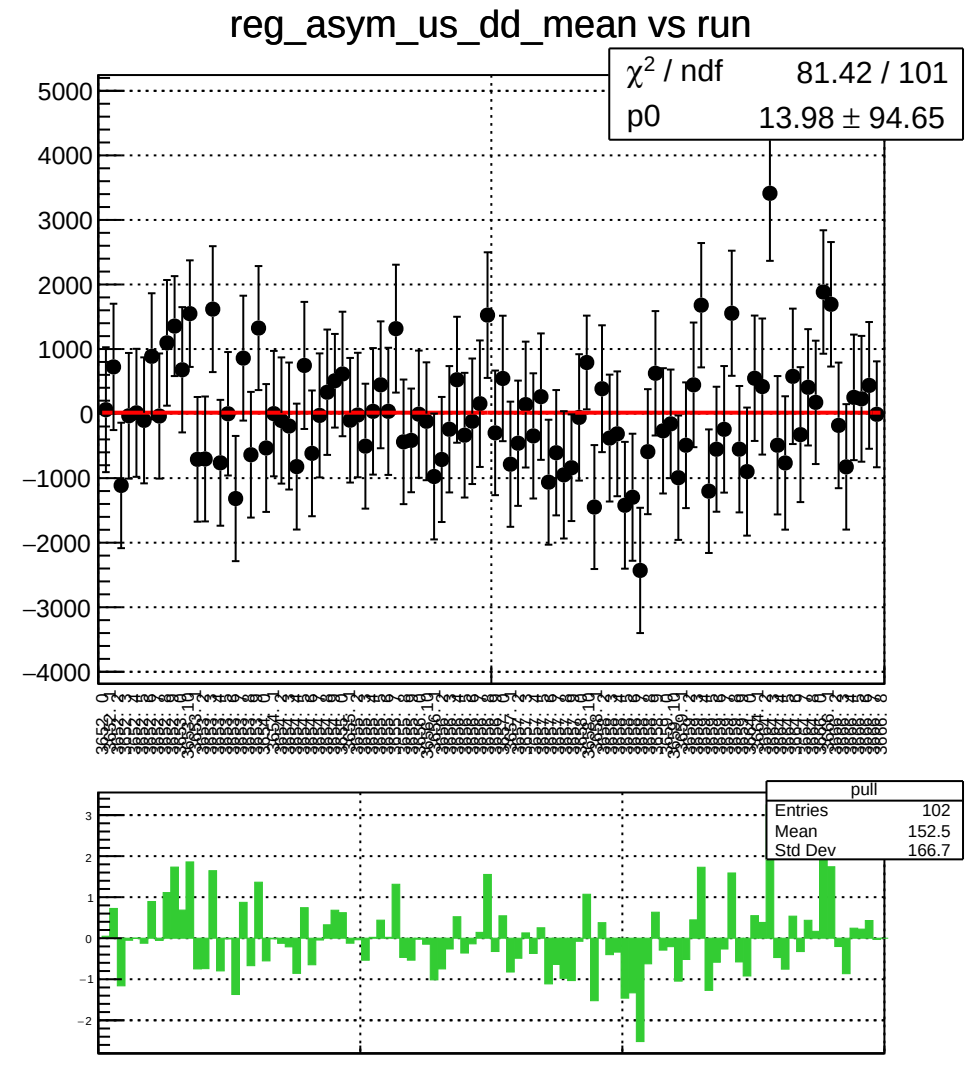

pull1D
Entries 102
Mean −0.009197
Std Dev 0.9525

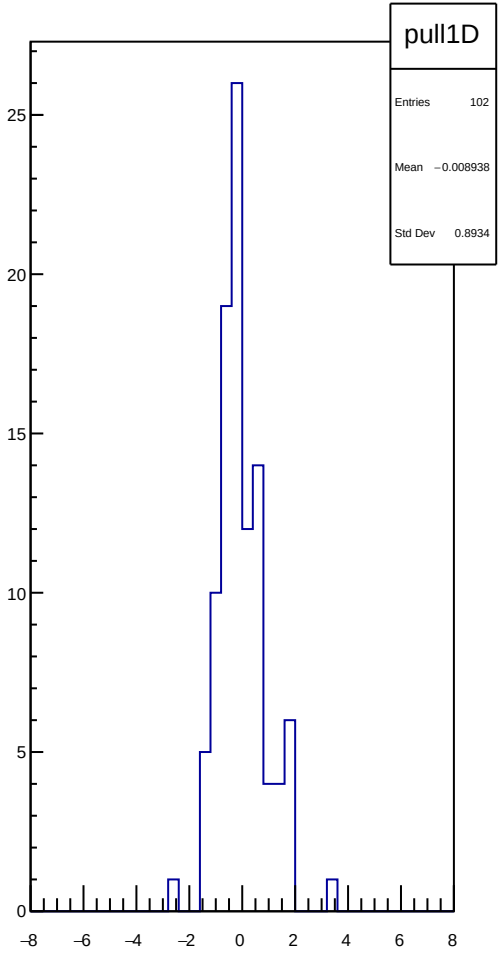

asym_us_avg_correction_rms vs run
χ² / ndf 6437 / 101
p0 197.1 ± 0.1425
230
220
210
200
190
180

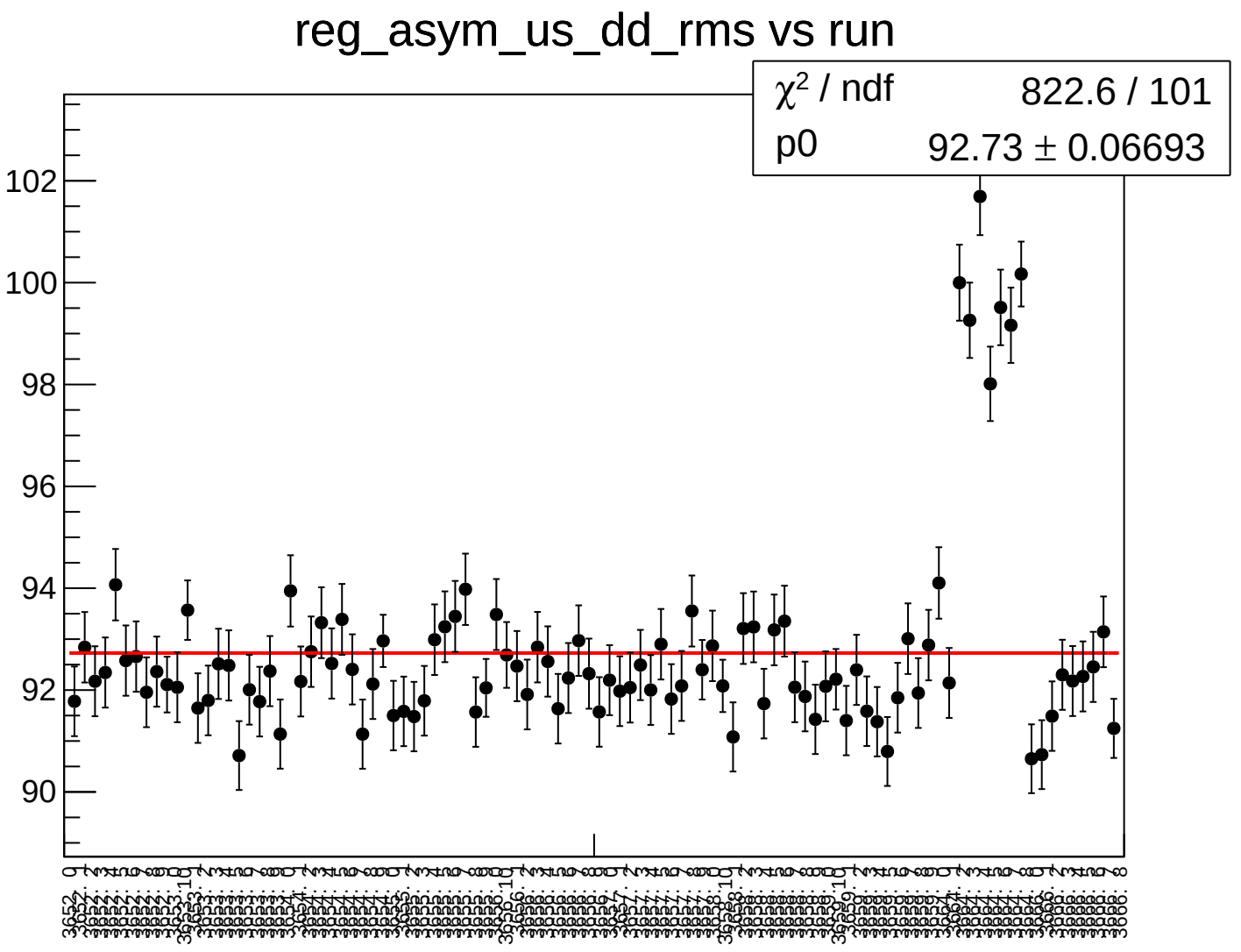

asym_us_avg_mean vs run
χ² / ndf 94.84 / 101
p0 389.6 ± 224.7
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 102
Mean 127.2
Std Dev 17.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

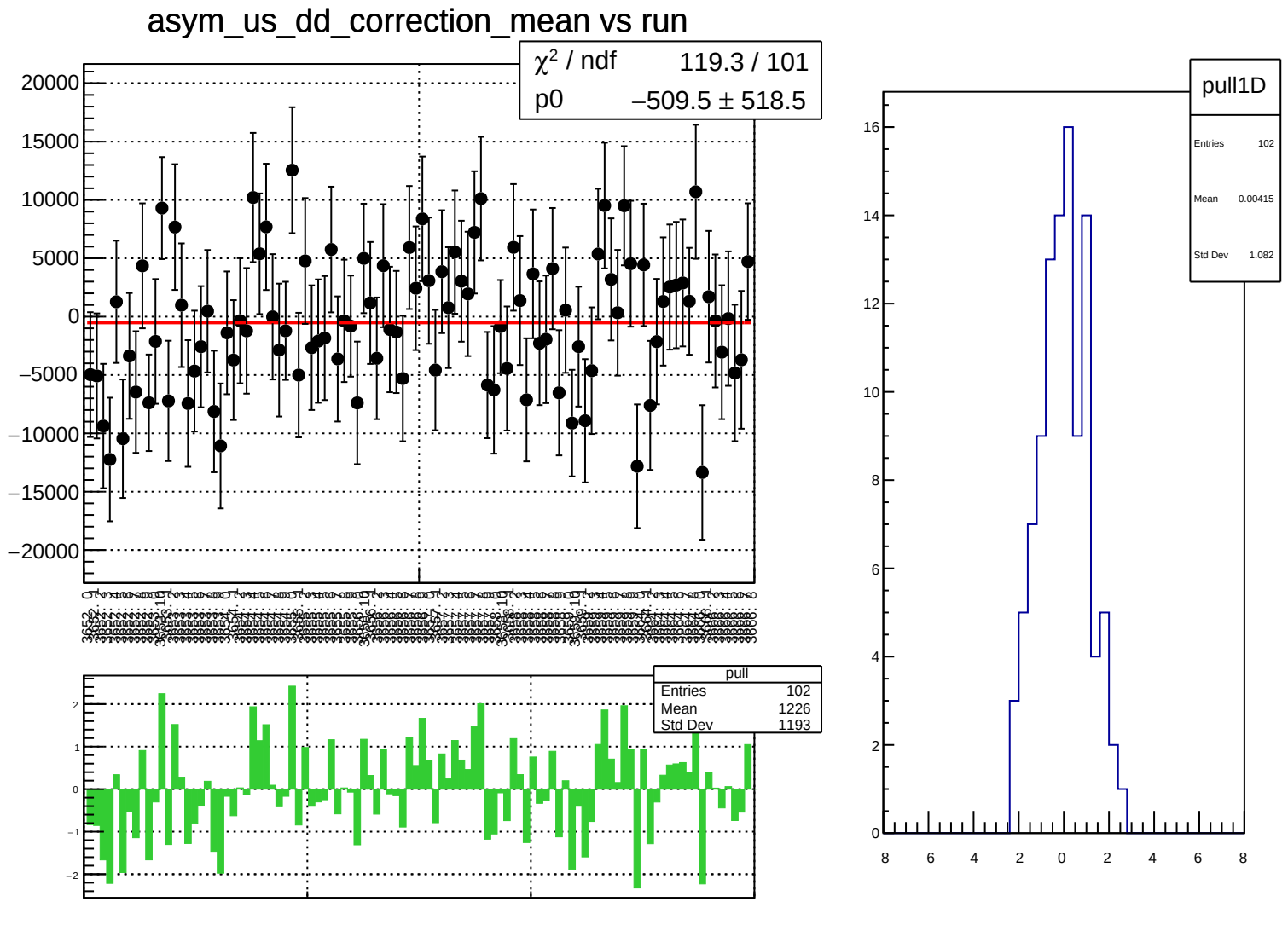

pull1D
Entries 102
Mean 0.01574
Std Dev 0.9641
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

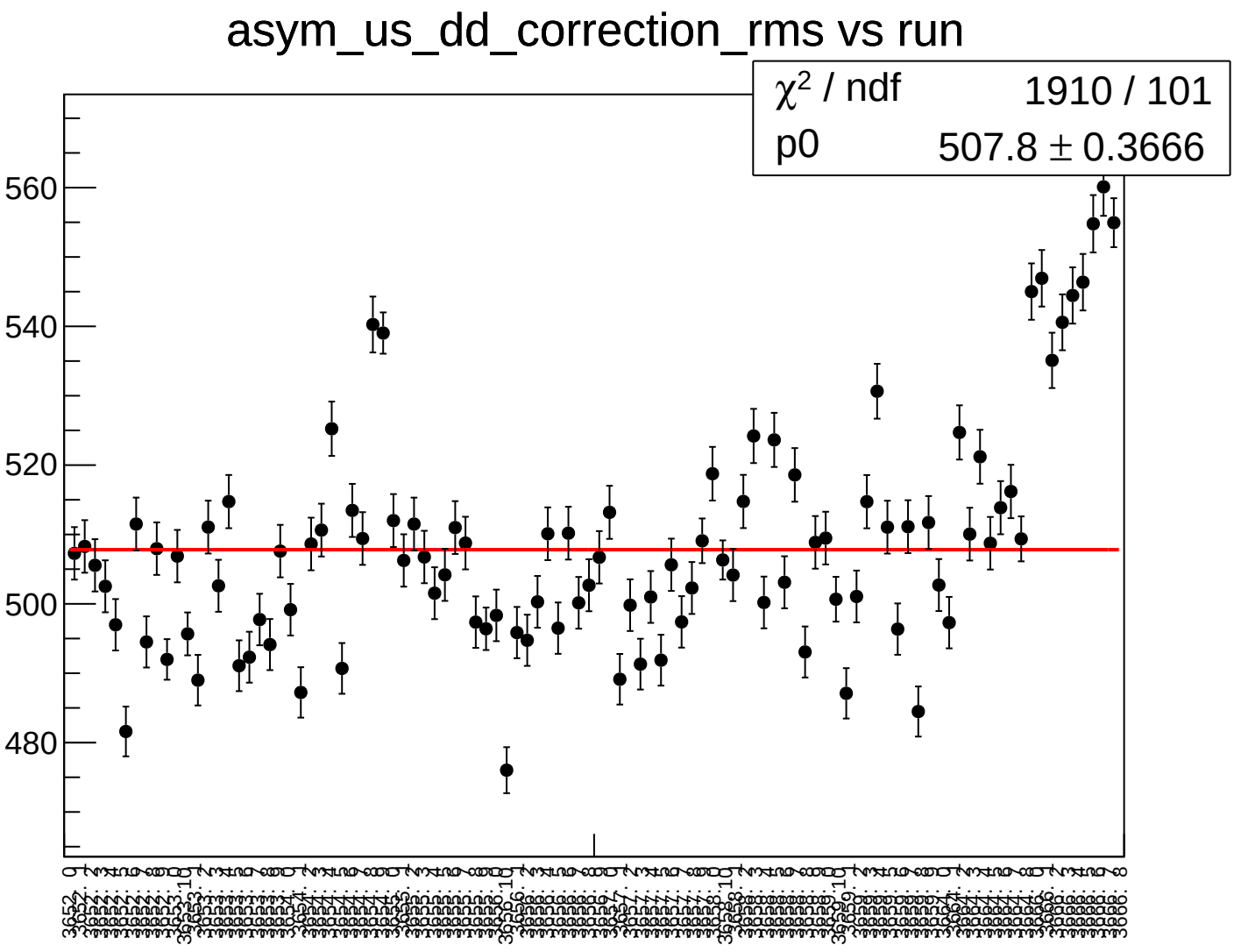

asym_us_avg_rms vs run
χ² / ndf 4692 / 101
p0 219.9 ± 0.1589
250
240
230
220
210
200

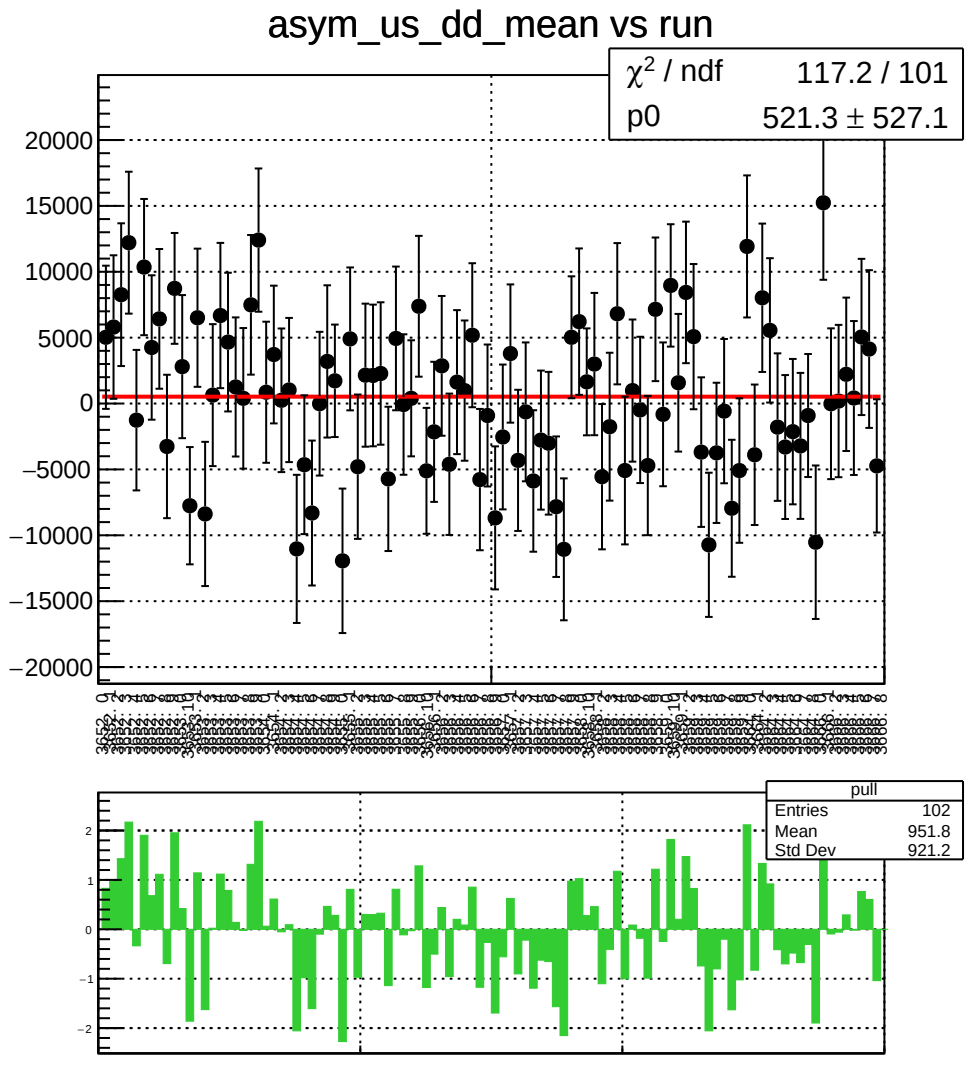

reg_asym_us_dd_mean vs run
χ^2 / ndf 81.42 / 101
p0 13.98 ± 94.65
pull
Entries 102
Mean 152.5
Std Dev 166.7

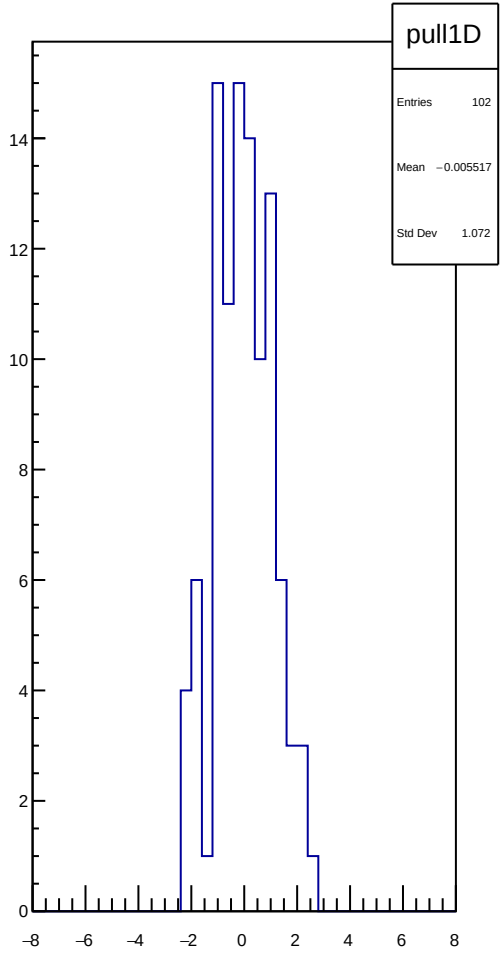

pull1D
Entries 102
Mean −0.008938
Std Dev 0.8934

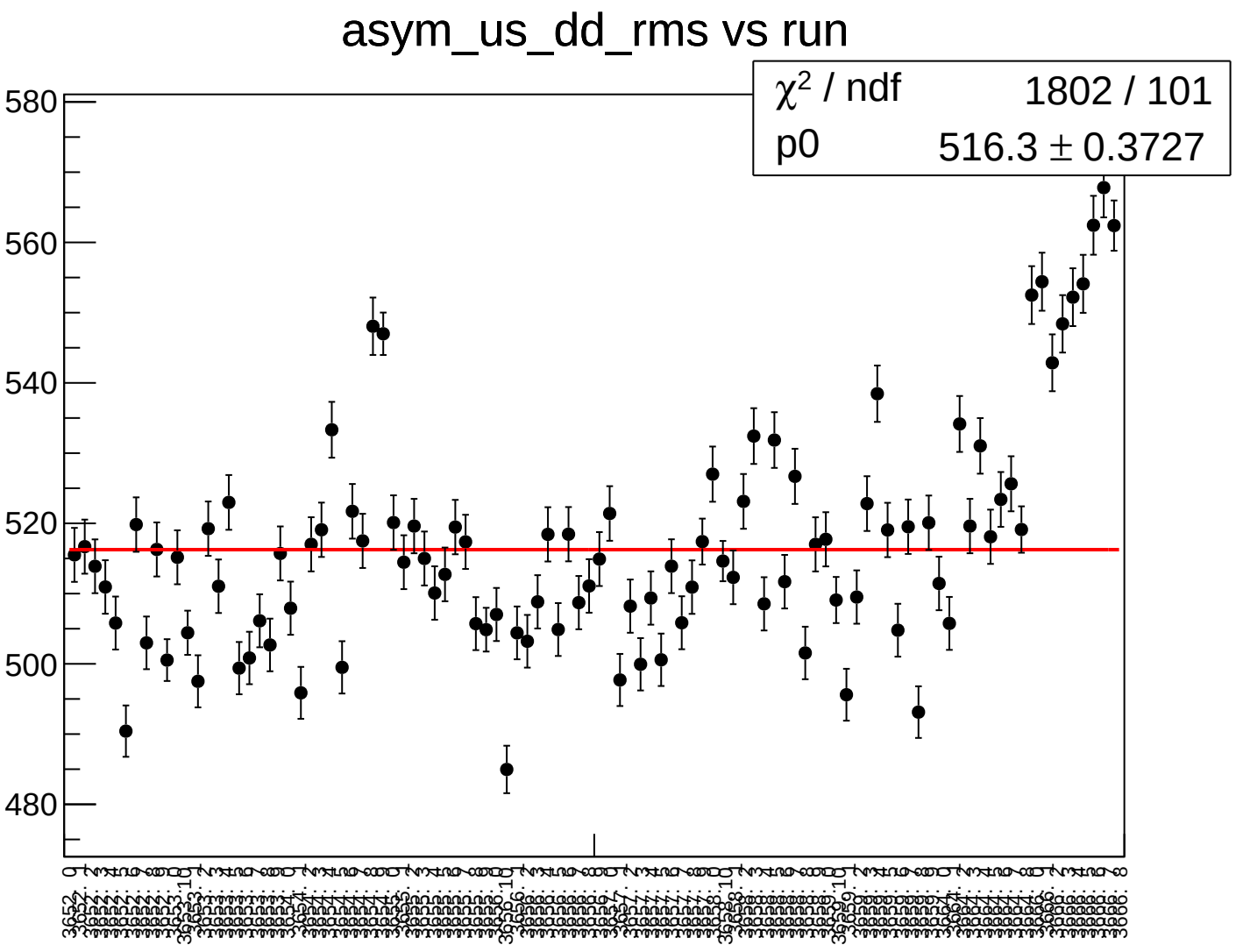

reg_asym_us_dd_rms vs run
χ² / ndf 822.6 / 101
p0 92.73 ± 0.06693
102
100
98
96
94
92
90

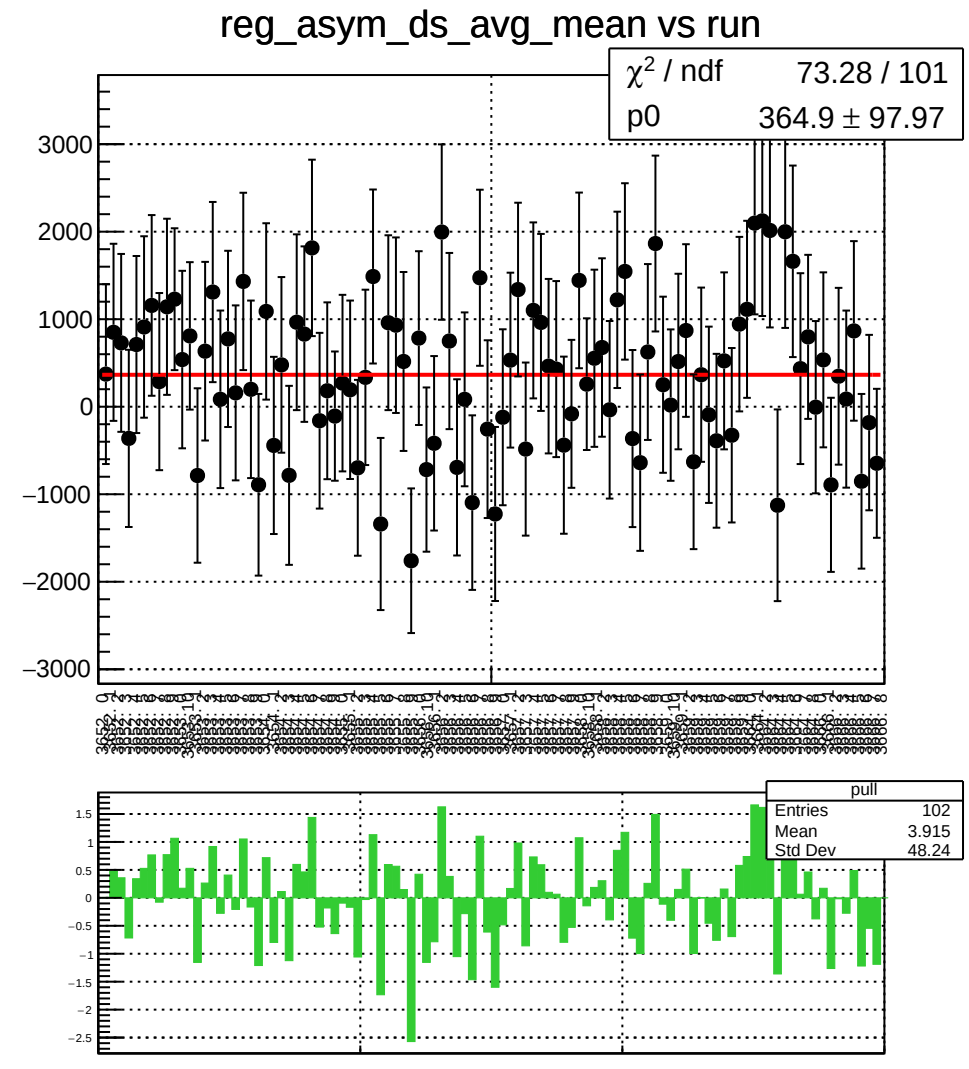

asym_us_dd_correction_mean vs run
χ² / ndf 119.3 / 101
p0 −509.5 ± 518.5
pull
Entries 102
Mean 1226
Std Dev 1193
pull1D
Entries 102
Mean 0.00415
Std Dev 1.082

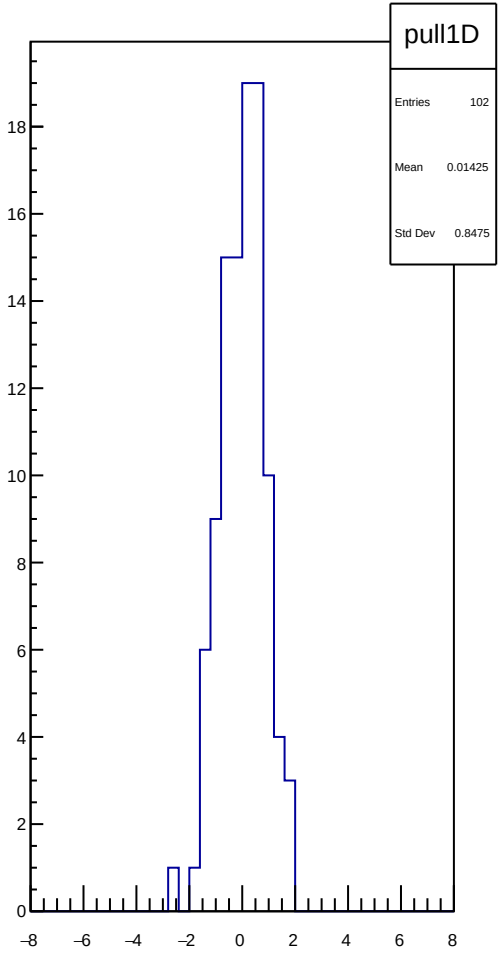

asym_us_dd_correction_rms vs run
χ² / ndf 1910 / 101
p0 507.8 ± 0.3666
560
540
520
500
480

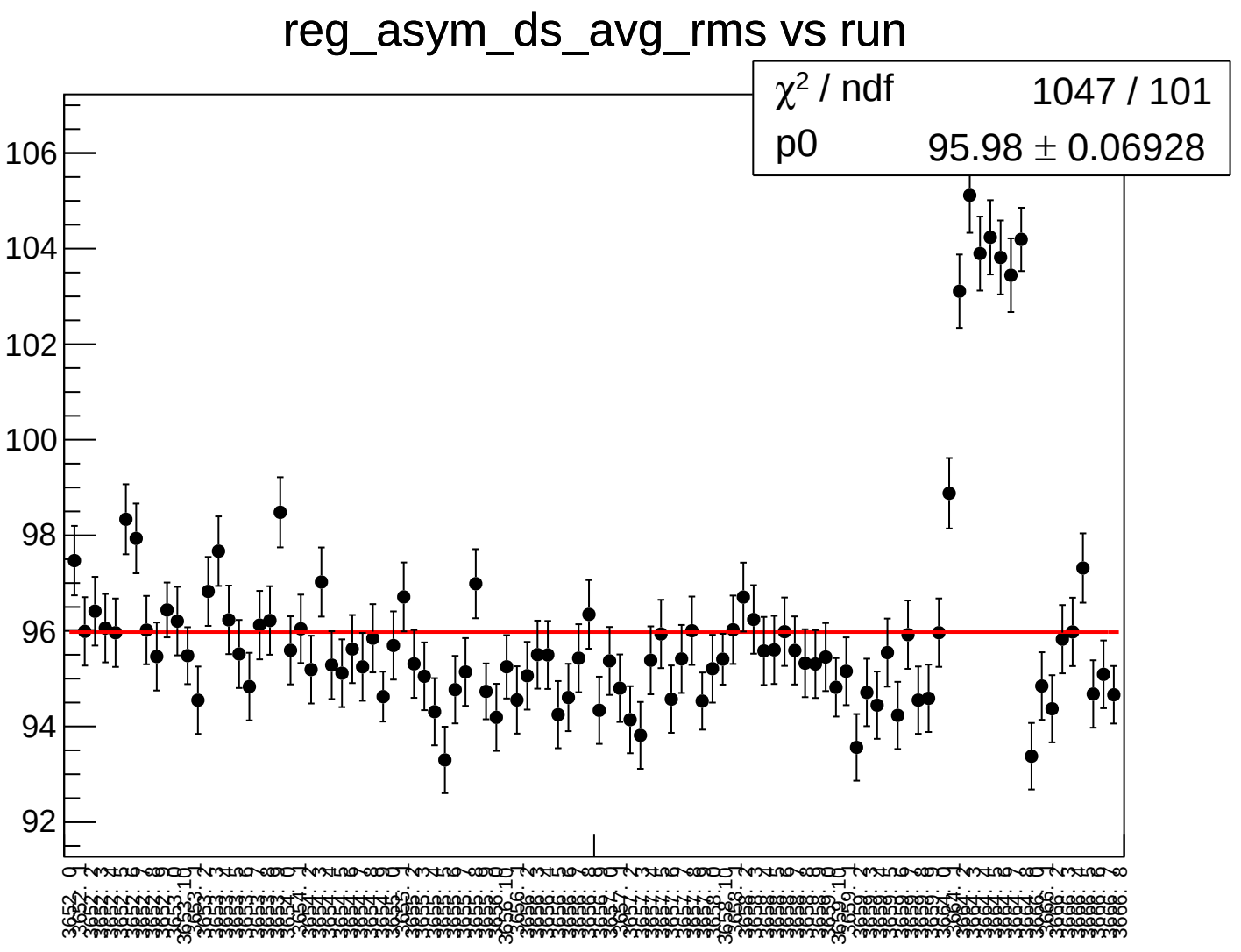

asym_us_dd_mean vs run
χ² / ndf 117.2 / 101
p0 521.3 ± 527.1
pull
Entries 102
Mean 951.8
Std Dev 921.2

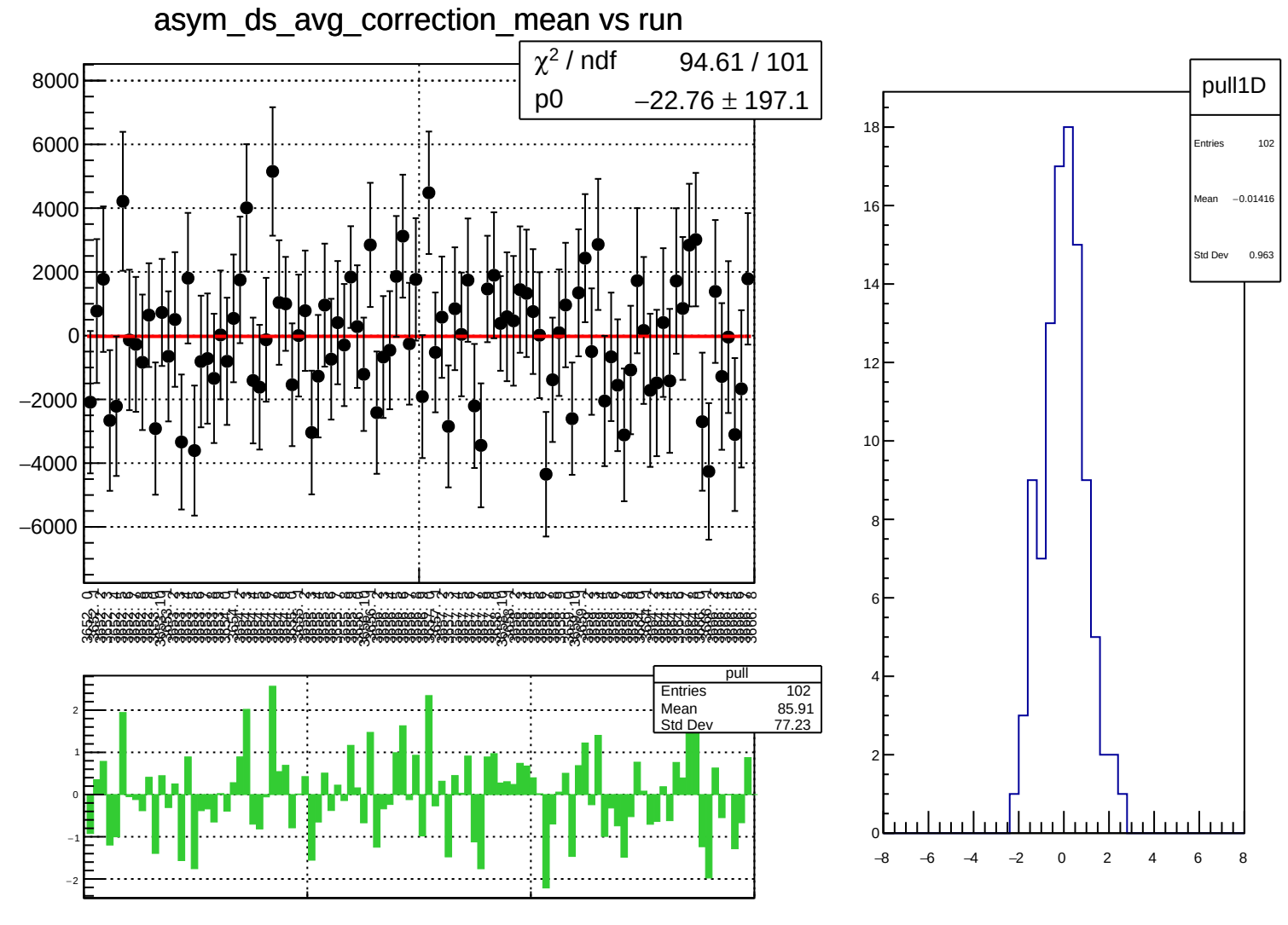

pull1D
Entries 102
Mean −0.005517
Std Dev 1.072

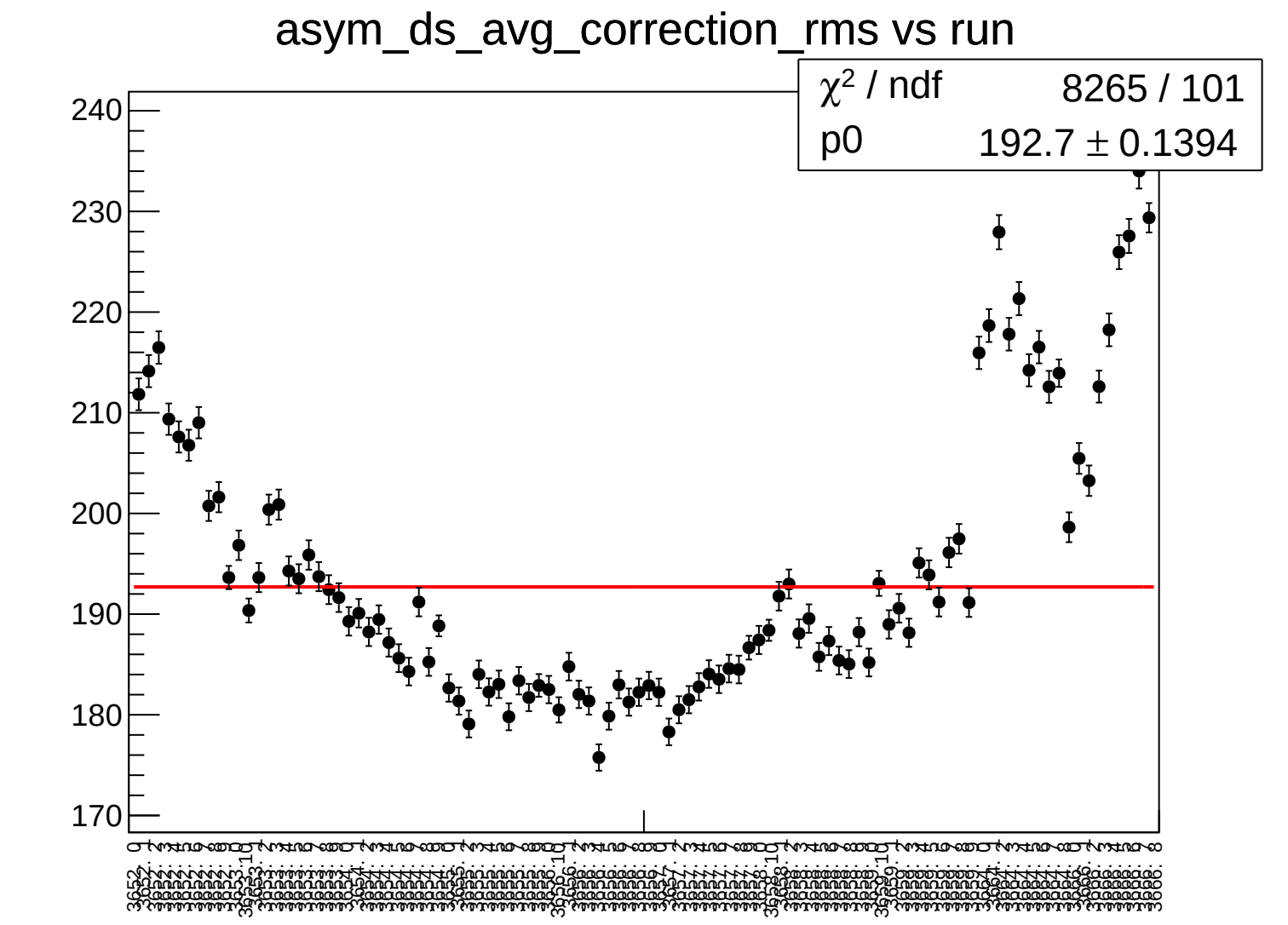

asym_us_dd_rms vs run
χ² / ndf 1802 / 101
p0 516.3 ± 0.3727
580
560
540
520
500
480

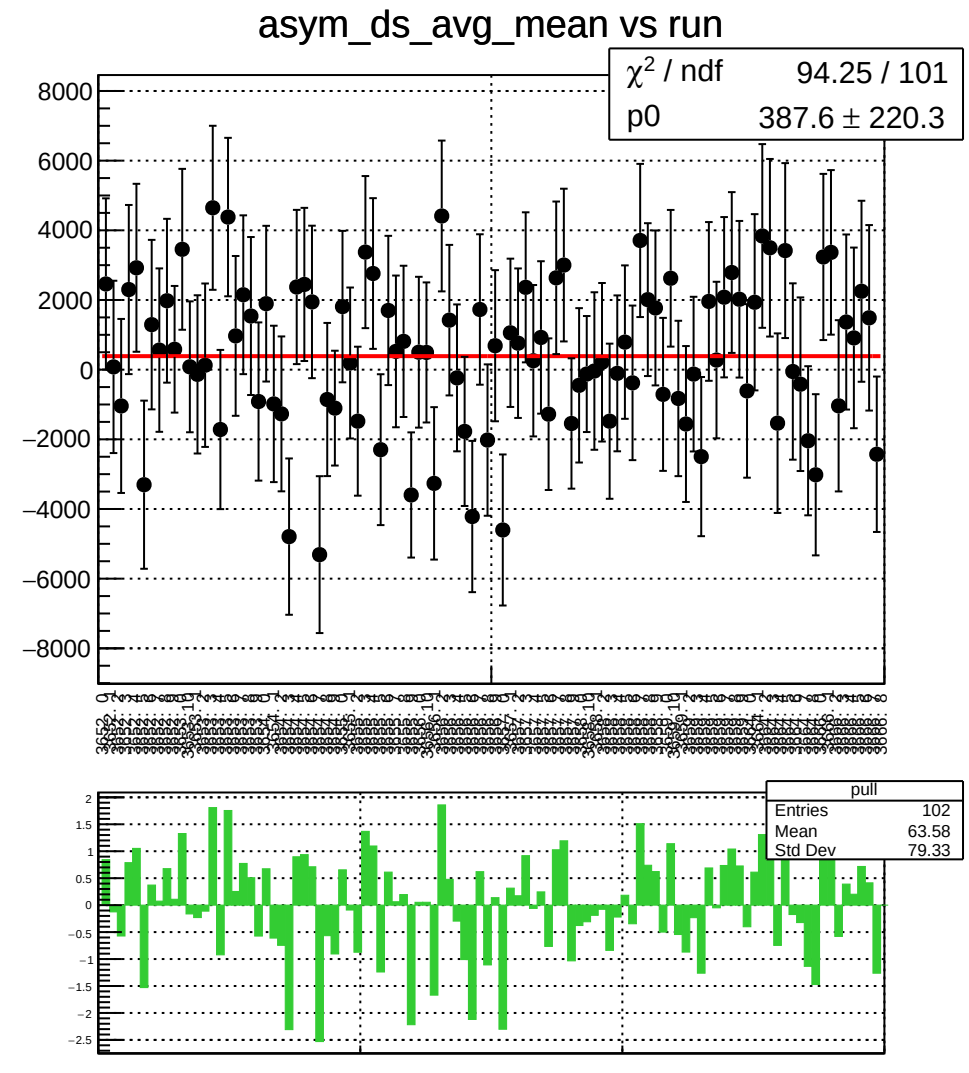

reg_asym_ds_avg_mean vs run
χ² / ndf 73.28 / 101
p0 364.9 ± 97.97
pull
Entries 102
Mean 3.915
Std Dev 48.24

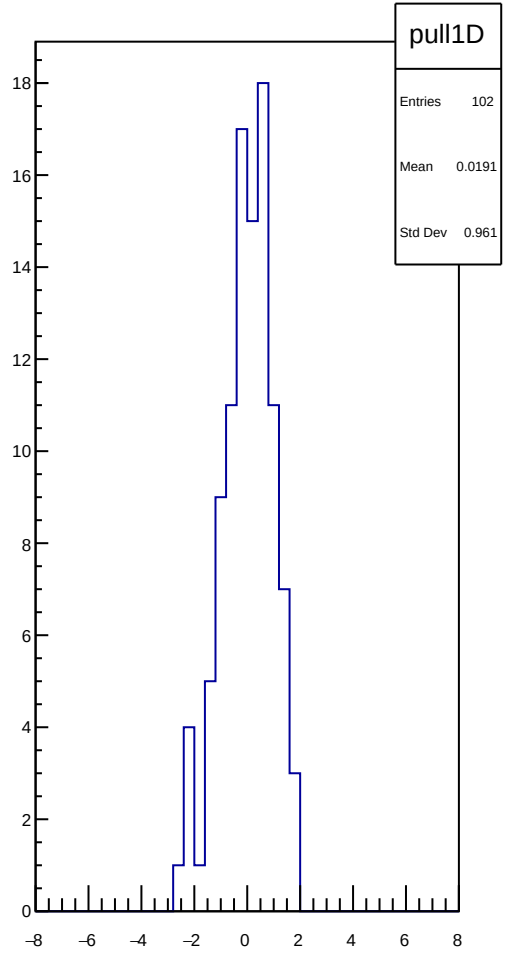

pull1D
Entries 102
Mean 0.01425
Std Dev 0.8475

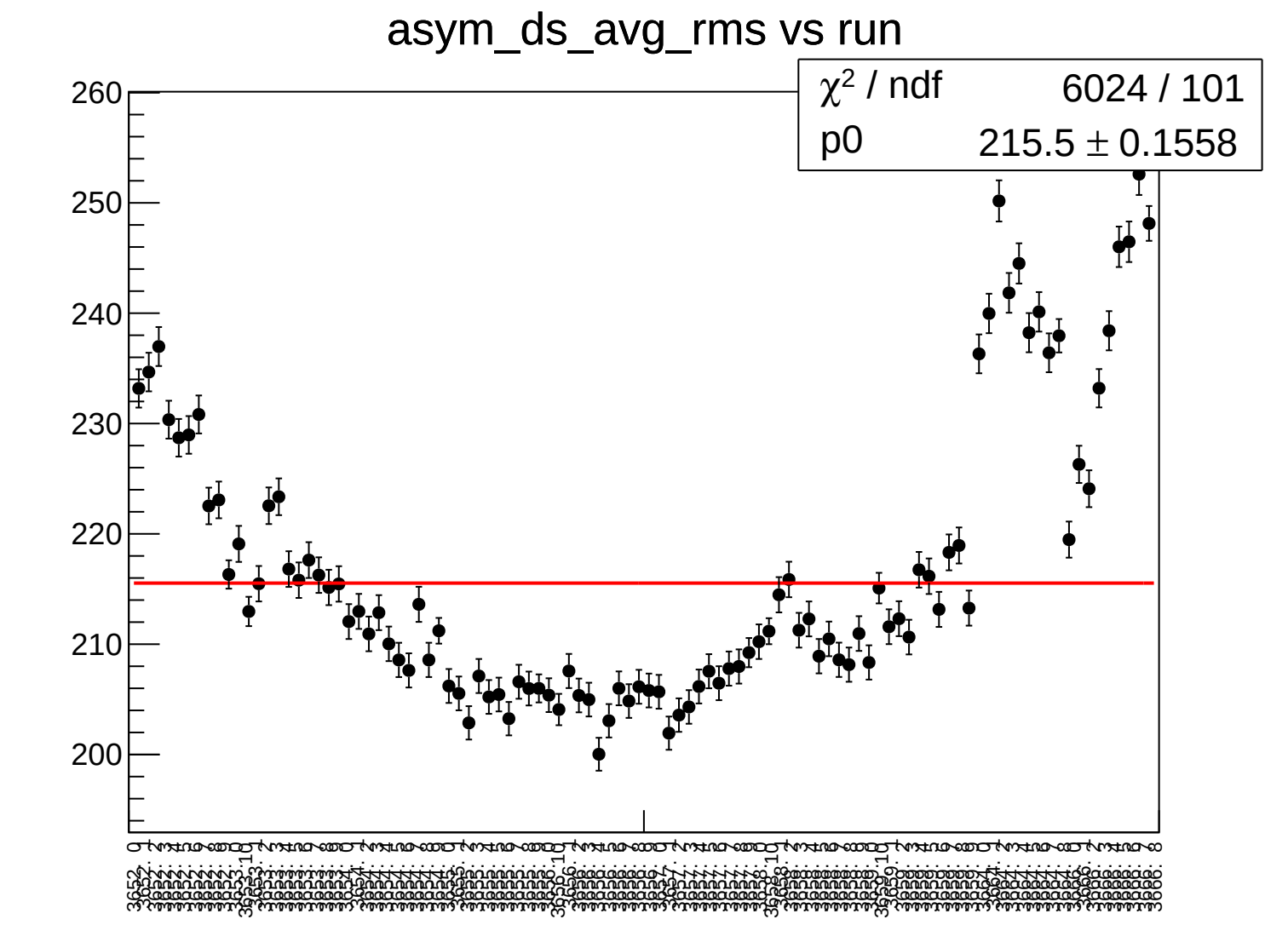

reg_asym_ds_avg_rms vs run
χ^2 / ndf 1047 / 101
p0 95.98 ± 0.06928
106
104
102
100
98
96
94
92

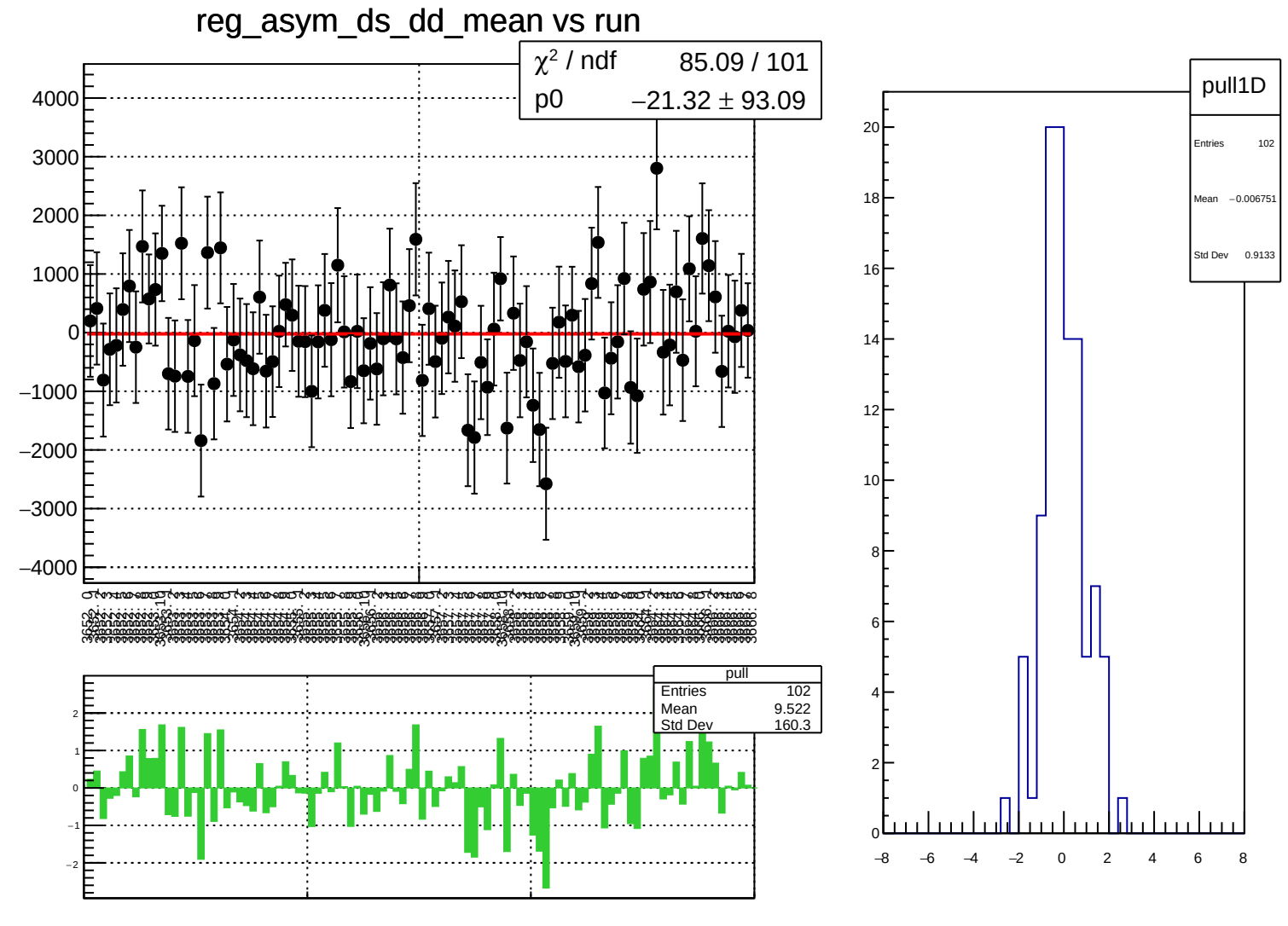

asym_ds_avg_correction_mean vs run
χ² / ndf 94.61 / 101
p0 −22.76 ± 197.1
pull
Entries 102
Mean 85.91
Std Dev 77.23
pull1D
Entries 102
Mean −0.01416
Std Dev 0.963

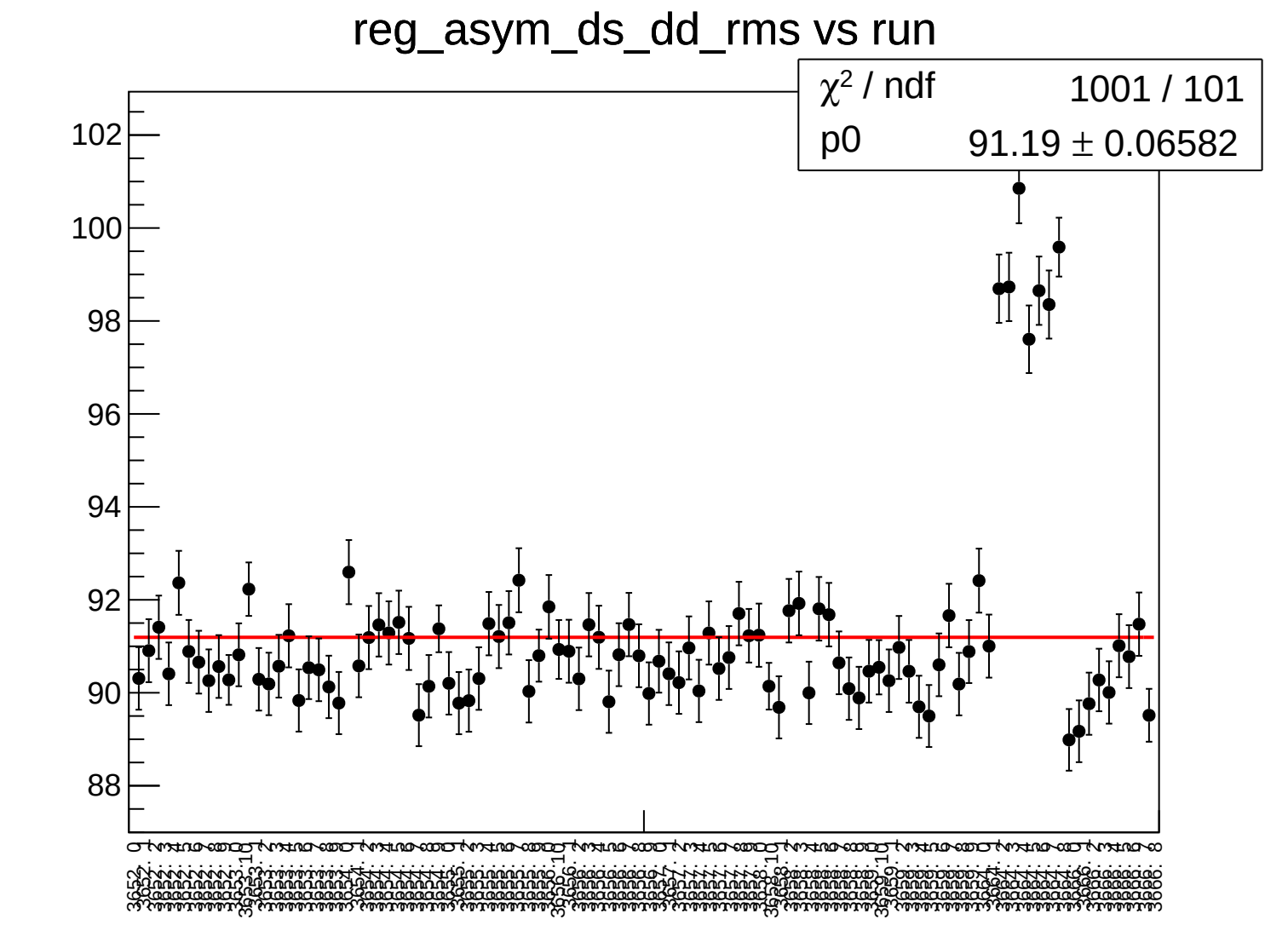

asym_ds_avg_correction_rms vs run
χ² / ndf 8265 / 101
p0 192.7 ± 0.1394
240
230
220
210
200
190
180
170

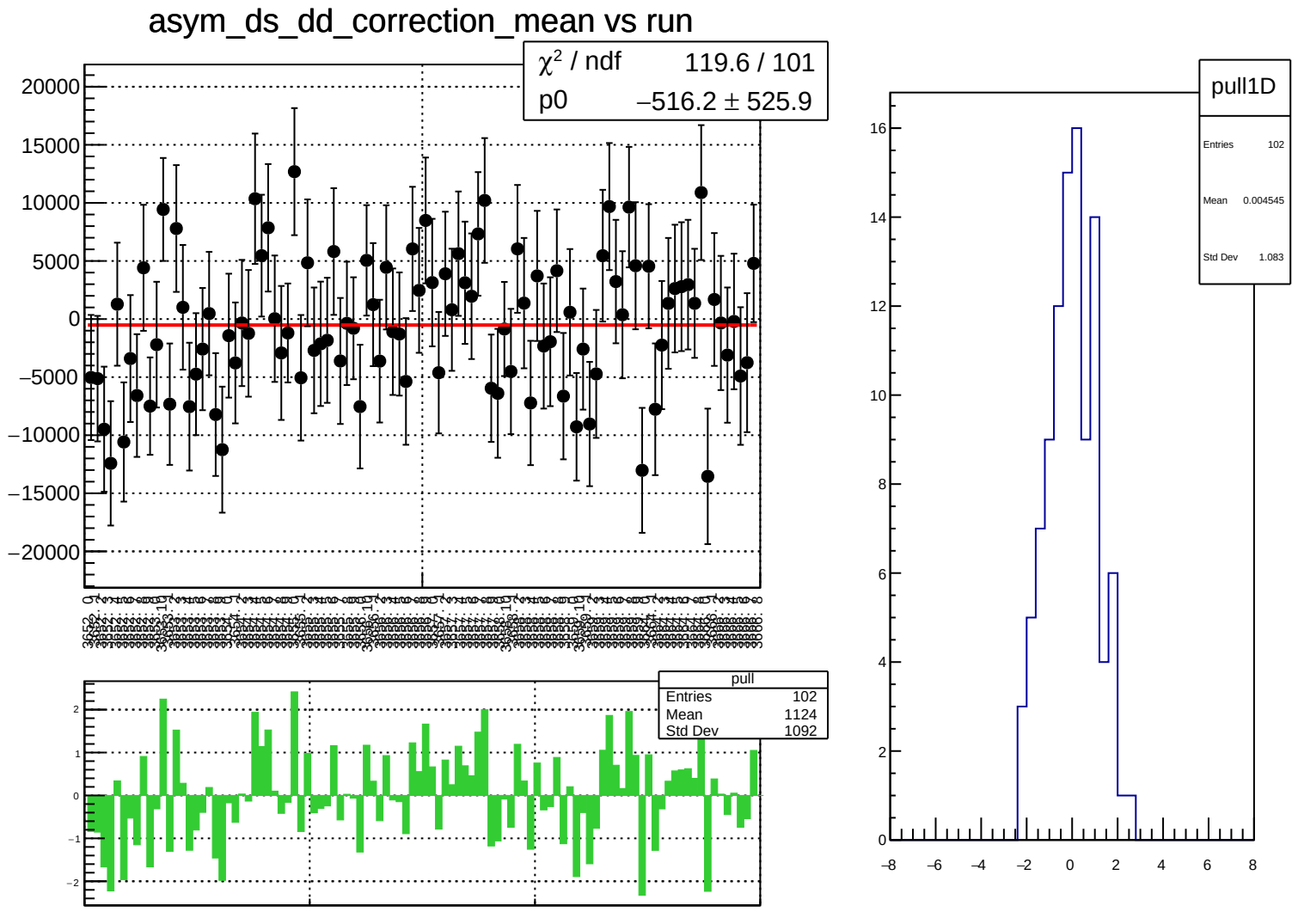

asym_ds_avg_mean vs run
χ² / ndf 94.25 / 101
p0 387.6 ± 220.3
pull
Entries 102
Mean 63.58
Std Dev 79.33

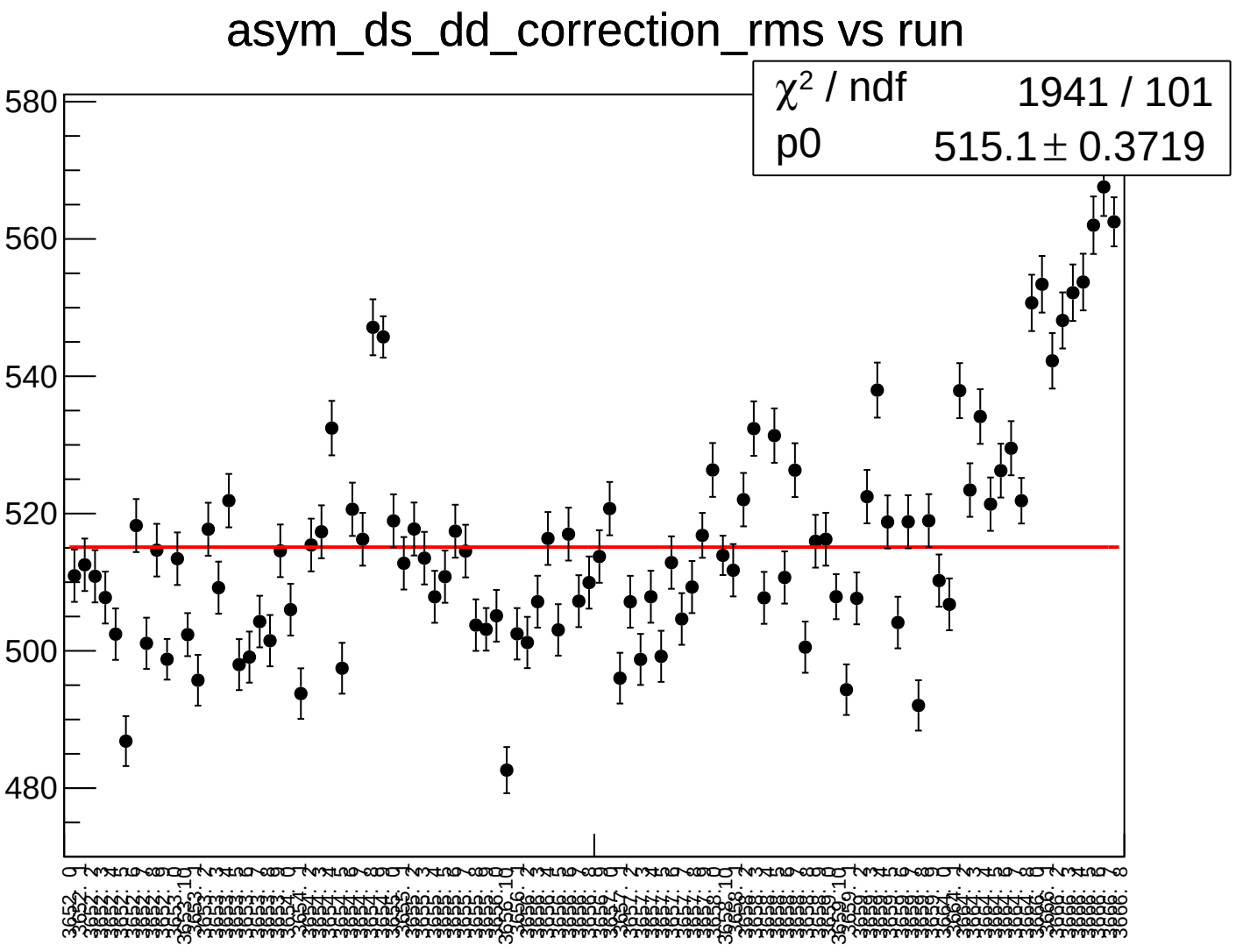

pull1D
Entries 102
Mean 0.0191
Std Dev 0.961

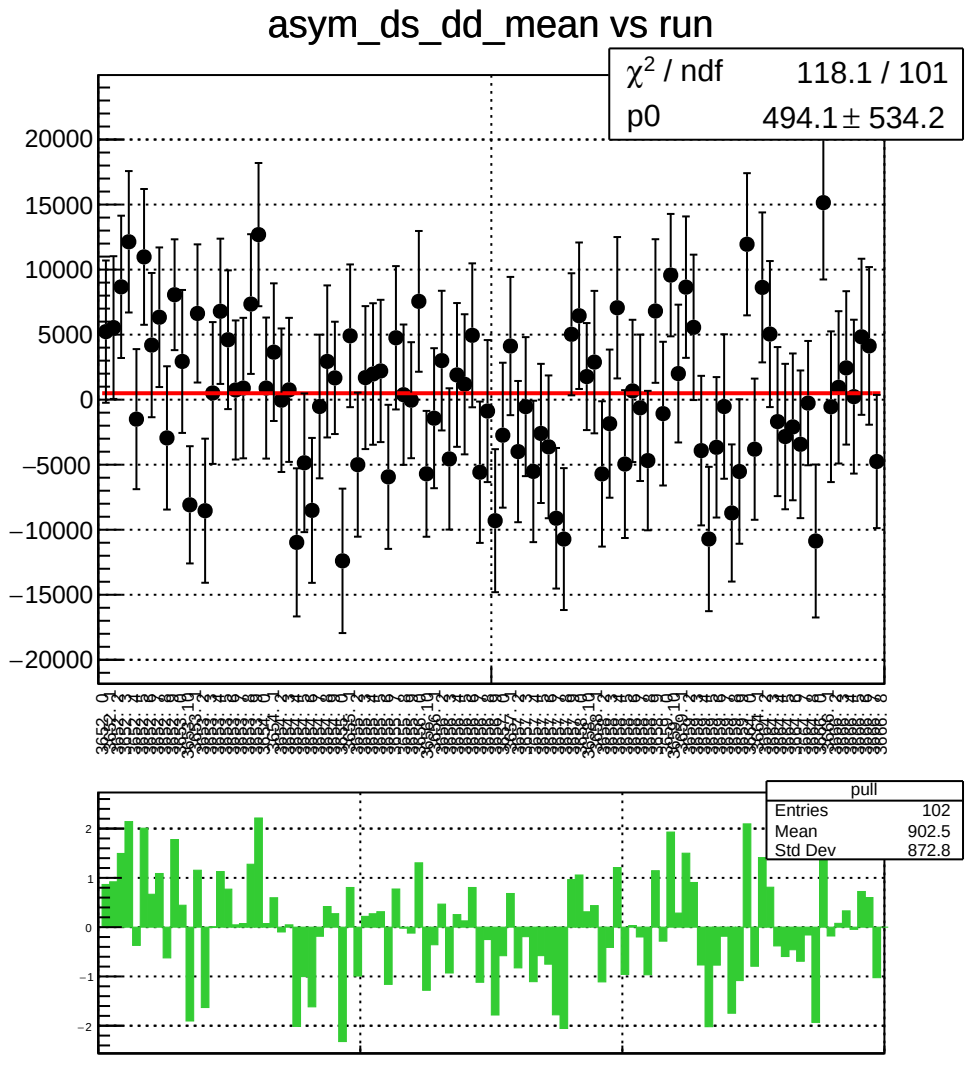

asym_ds_avg_rms vs run
χ^2 / ndf 6024 / 101
p0 215.5 ± 0.1558
260
250
240
230
220
210
200

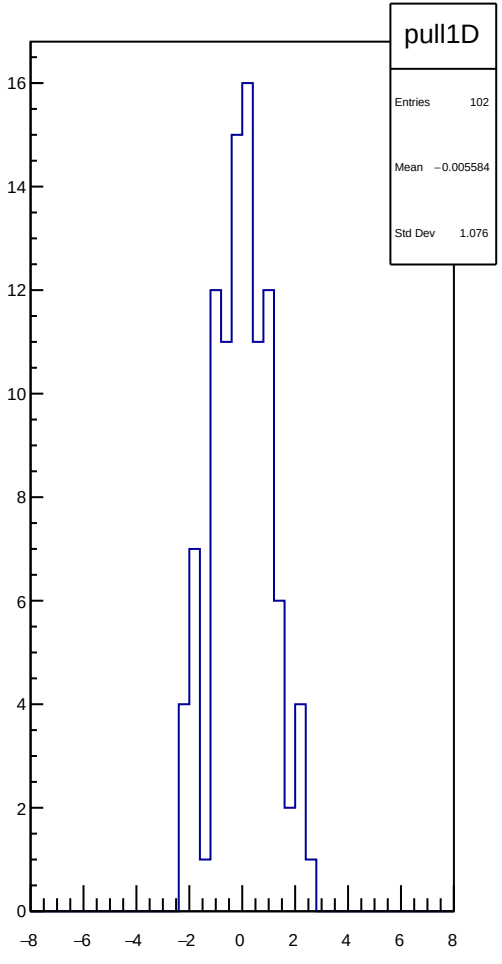

reg_asym_ds_dd_mean vs run
χ² / ndf 85.09 / 101
p0 −21.32 ± 93.09
pull
Entries 102
Mean 9.522
Std Dev 160.3
pull1D
Entries 102
Mean −0.006751
Std Dev 0.9133

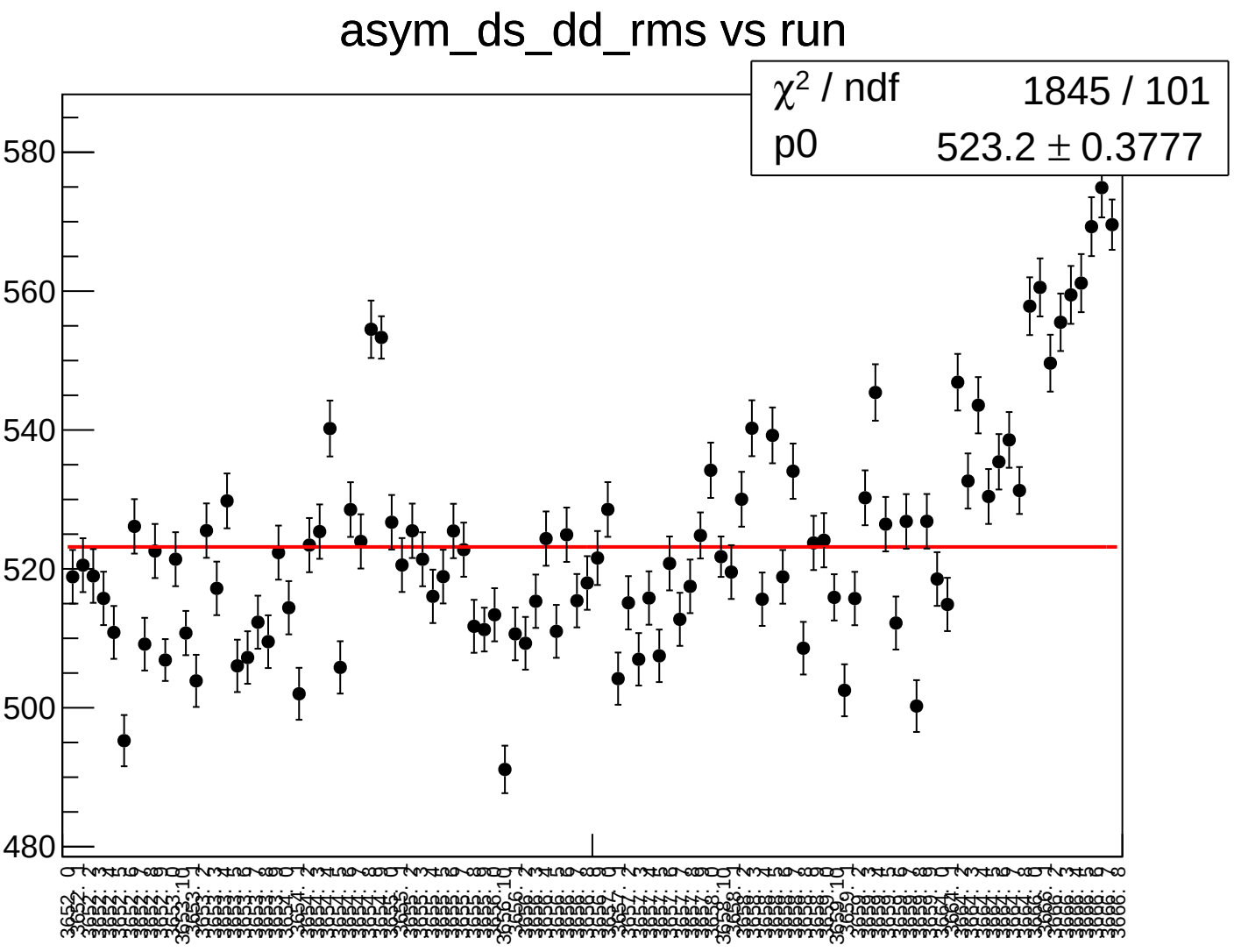

reg_asym_ds_dd_rms vs run
χ² / ndf 1001 / 101
p0 91.19 ± 0.06582
102
100
98
96
94
92
90
88

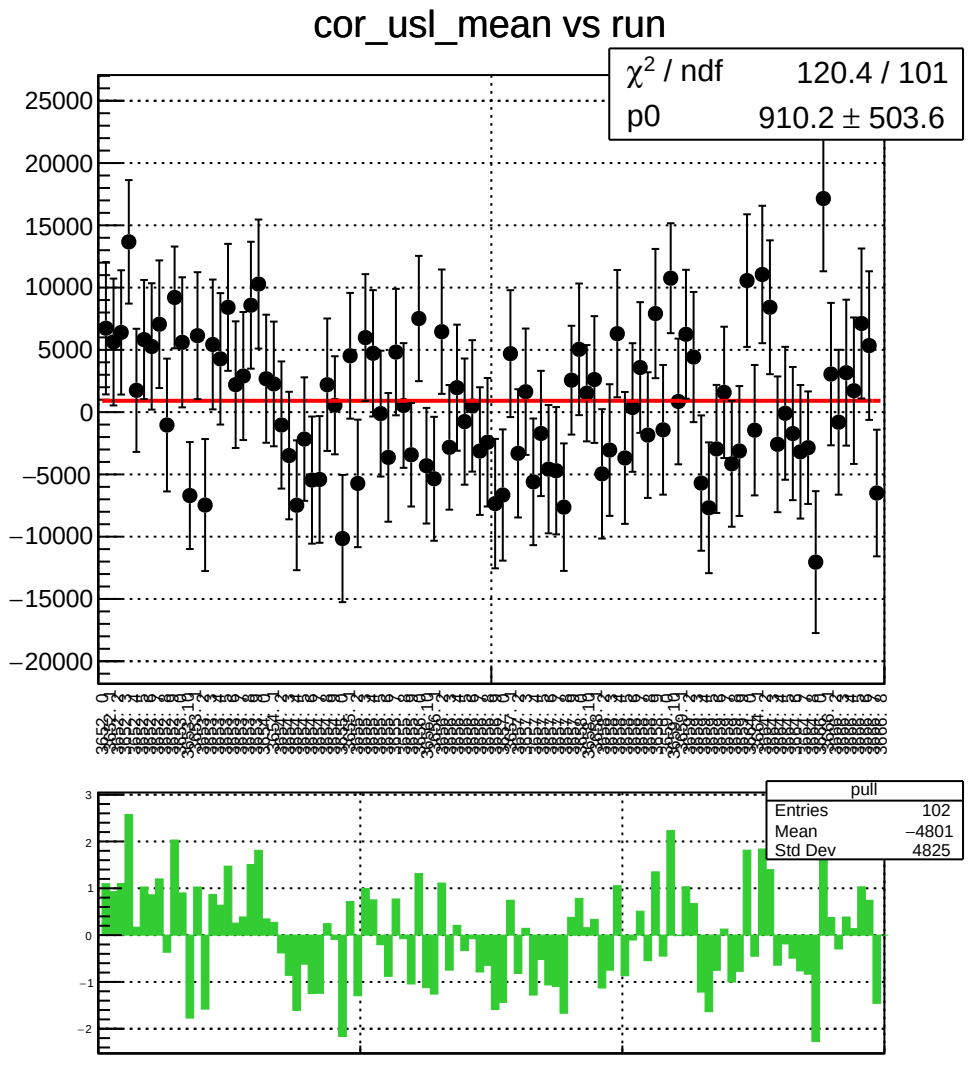

asym_ds_dd_correction_mean vs run
χ² / ndf 119.6 / 101
p0 −516.2 ± 525.9
pull
Entries 102
Mean 1124
Std Dev 1092
pull1D
Entries 102
Mean 0.004545
Std Dev 1.083

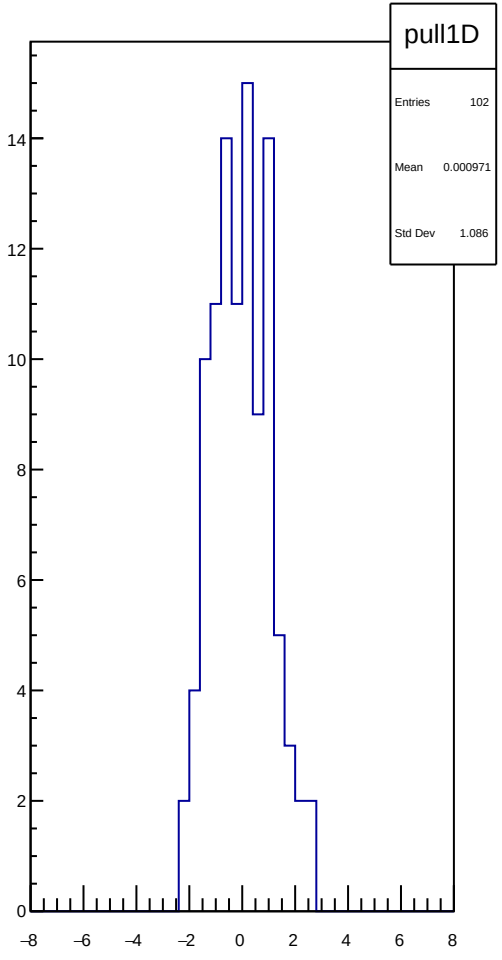

asym_ds_dd_correction_rms vs run
χ² / ndf 1941 / 101
p0 515.1 ± 0.3719
580
560
540
520
500
480

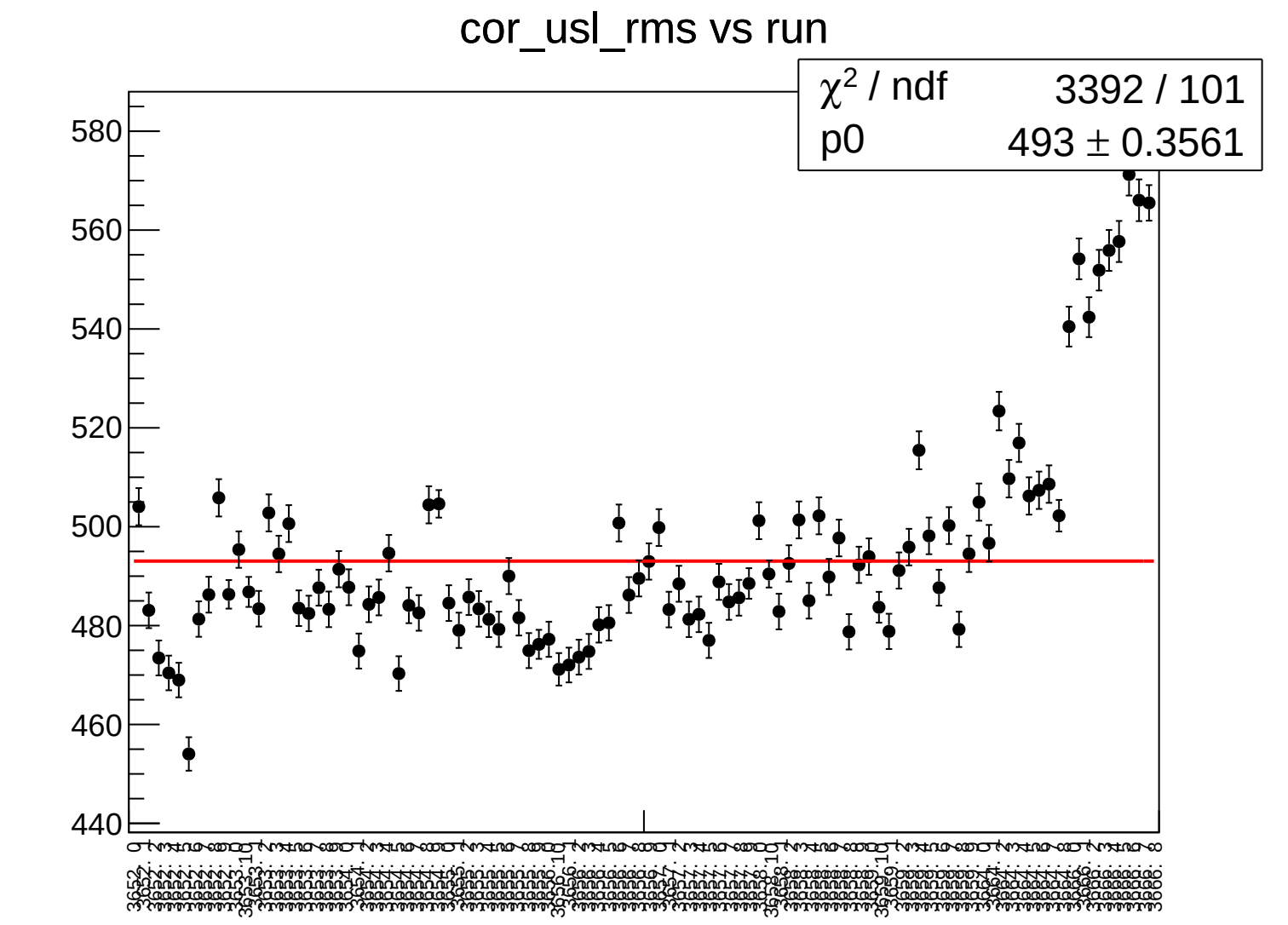

asym_ds_dd_mean vs run
χ² / ndf 118.1 / 101
p0 494.1 ± 534.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 102
Mean 902.5
Std Dev 872.8
2
1
0
−1
−2

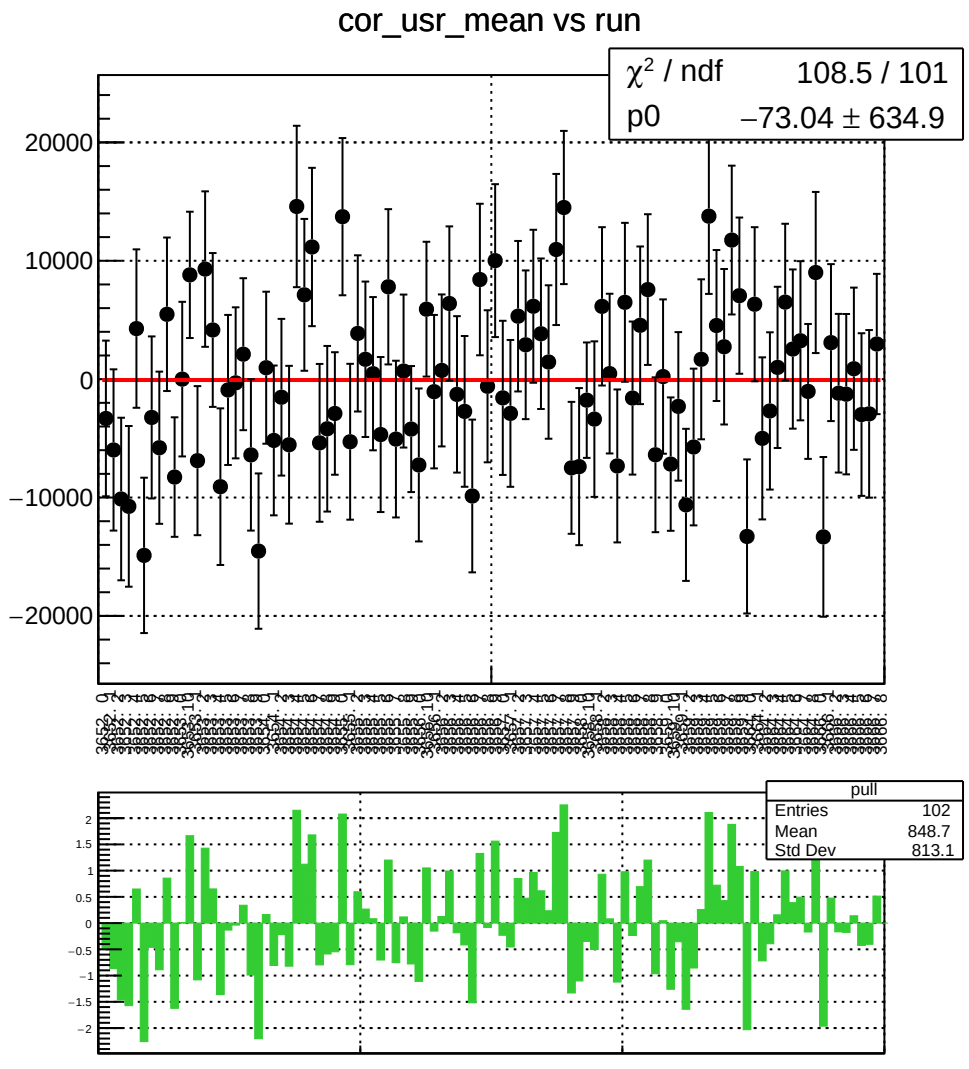

pull1D
Entries 102
Mean −0.005584
Std Dev 1.076
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

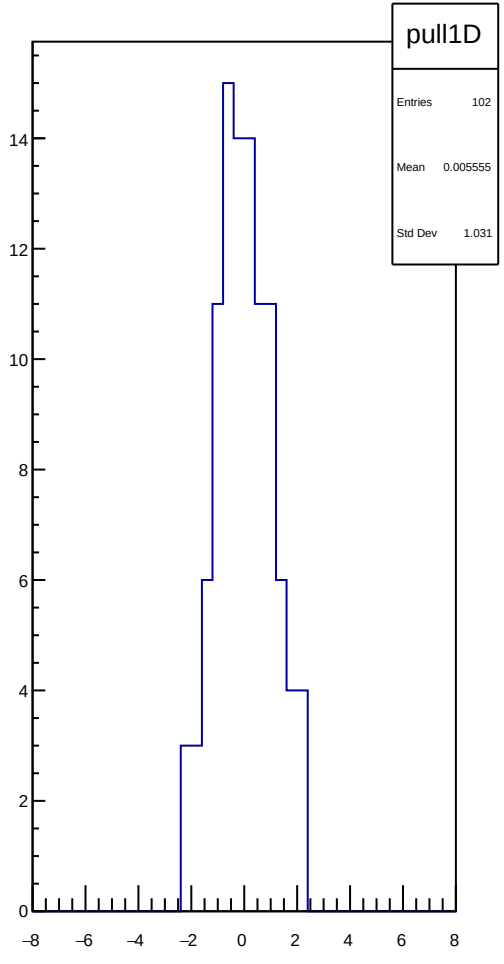

asym_ds_dd_rms vs run
χ² / ndf 1845 / 101
p0 523.2 ± 0.3777
580
560
540
520
500
480

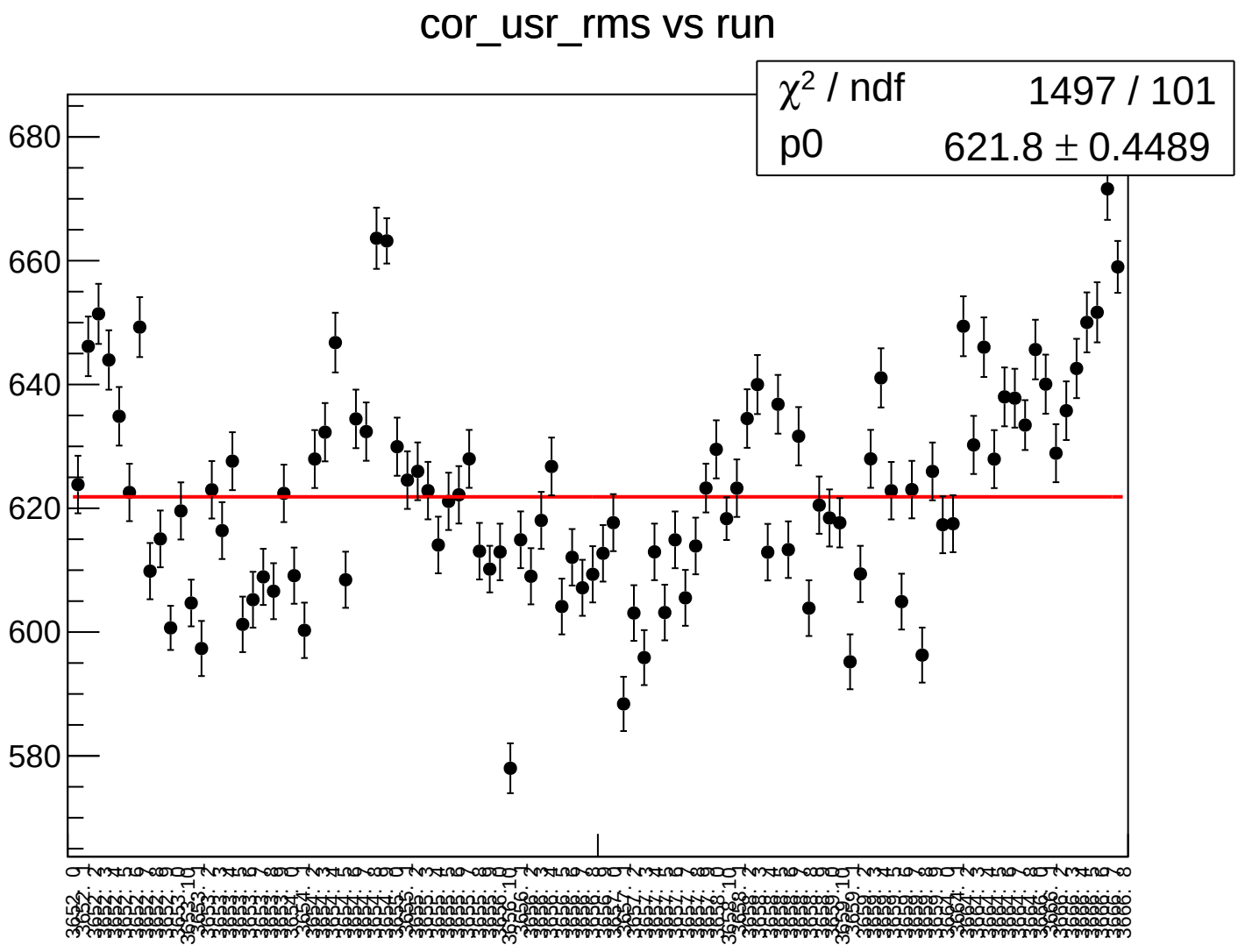

cor_usl_mean vs run
χ² / ndf 120.4 / 101
p0 910.2 ± 503.6
pull
Entries 102
Mean −4801
Std Dev 4825

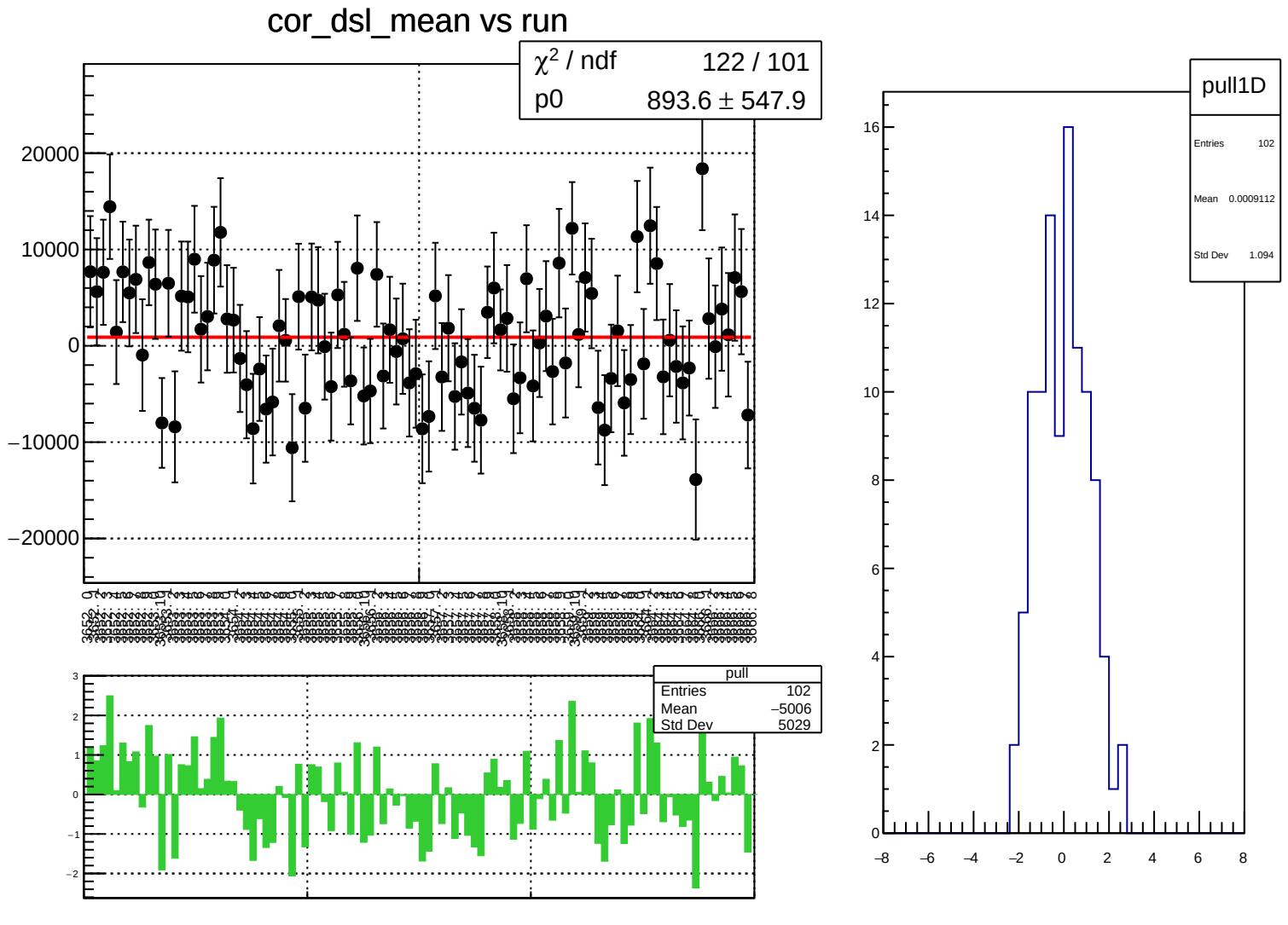

pull1D
Entries 102
Mean 0.000971
Std Dev 1.086

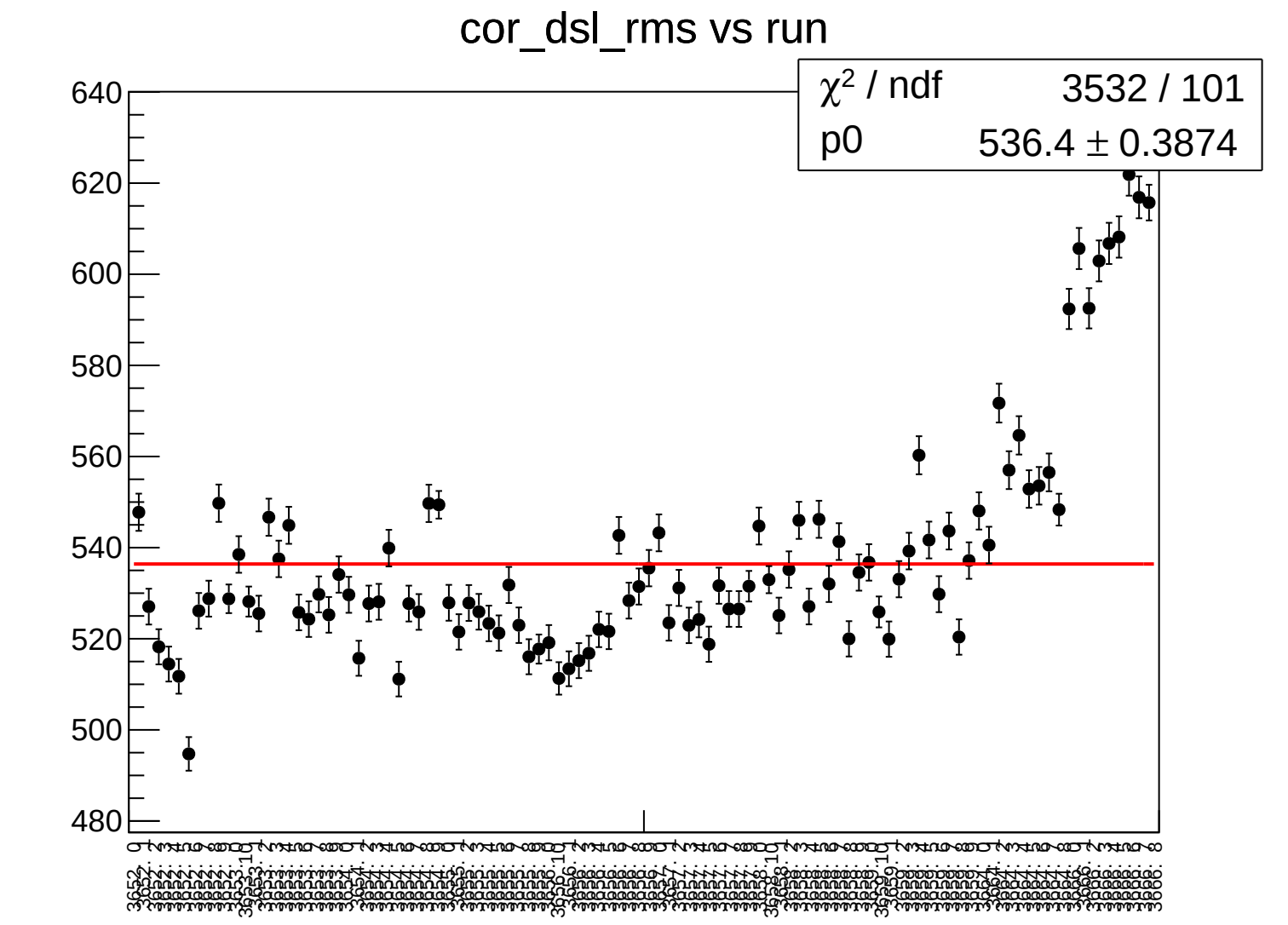

cor_usl_rms vs run
χ² / ndf 3392 / 101
p0 493 ± 0.3561
580
560
540
520
500
480
460
440

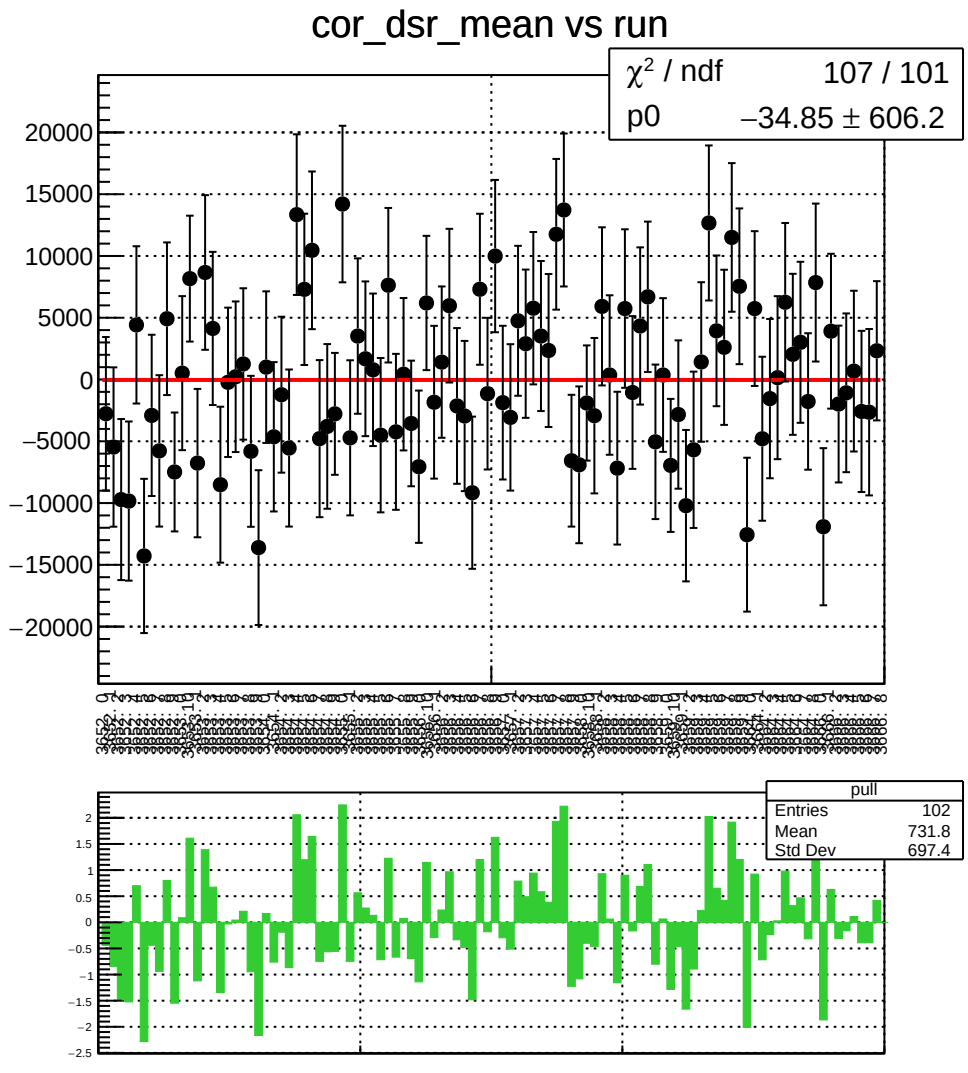

cor_usr_mean vs run
χ² / ndf 108.5 / 101
p0 −73.04 ± 634.9
20000
10000
0
−10000
−20000
pull
Entries 102
Mean 848.7
Std Dev 813.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

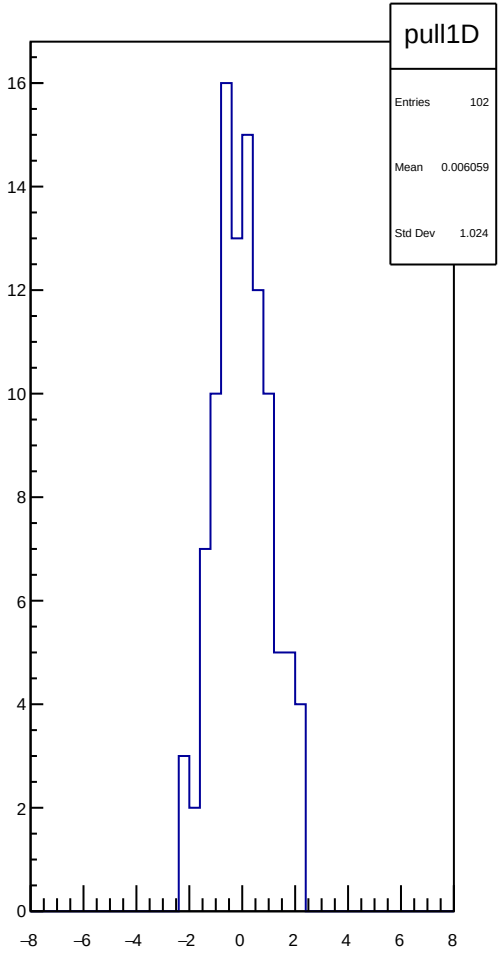

pull1D
Entries 102
Mean 0.005555
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

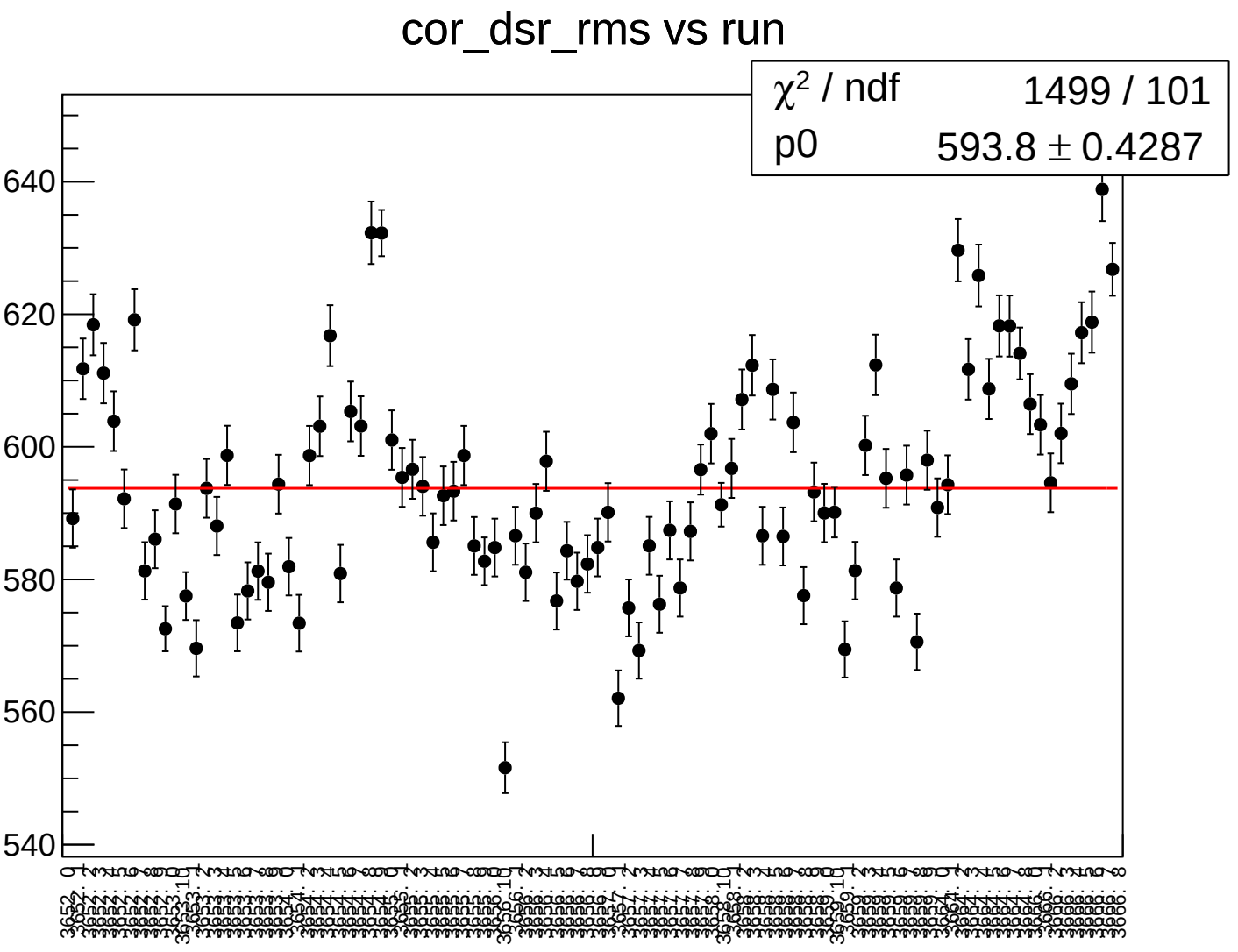

cor_usr_rms vs run
χ² / ndf 1497 / 101
p0 621.8 ± 0.4489
680
660
640
620
600
580

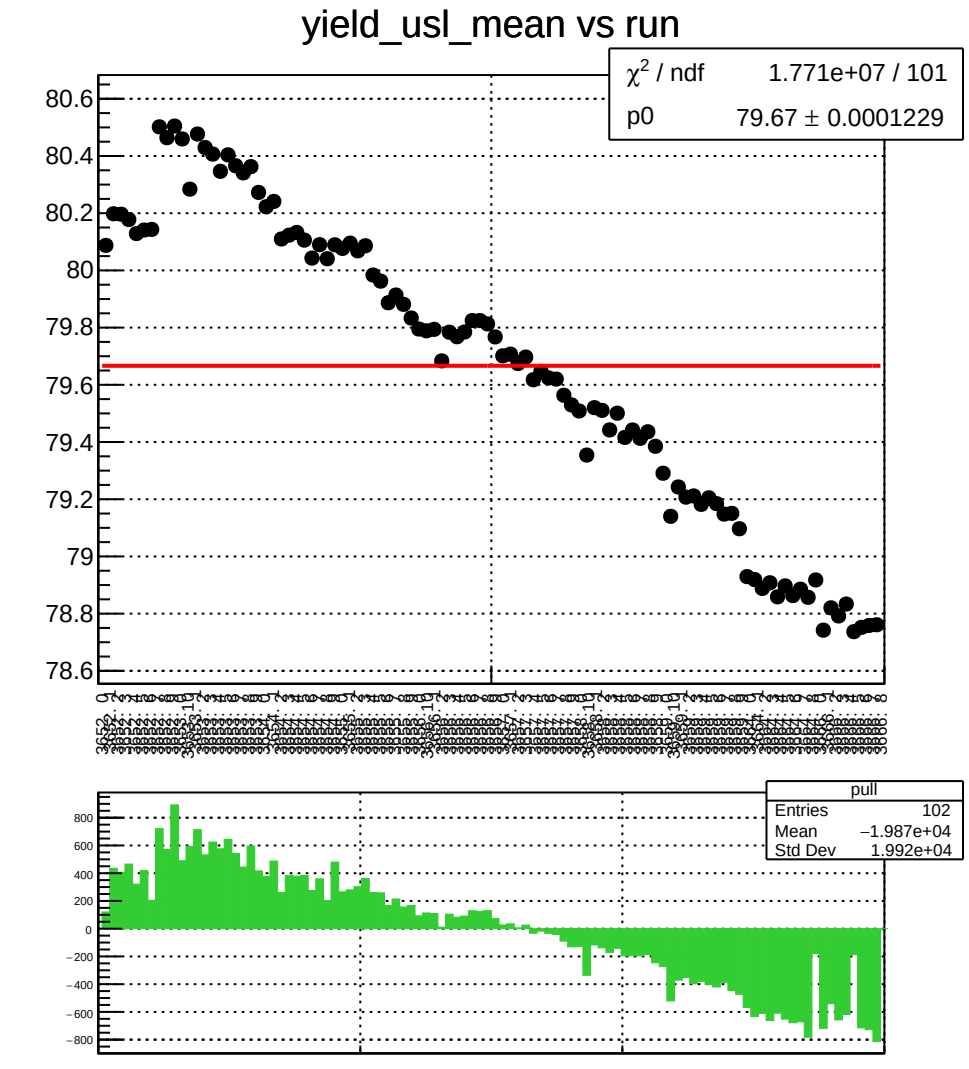

cor_dsl_mean vs run
χ² / ndf 122 / 101
p0 893.6 ± 547.9
20000
10000
0
−10000
−20000
pull
Entries 102
Mean −5006
Std Dev 5029
3
2
1
0
−1
−2
pull1D
Entries 102
Mean 0.0009112
Std Dev 1.094
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

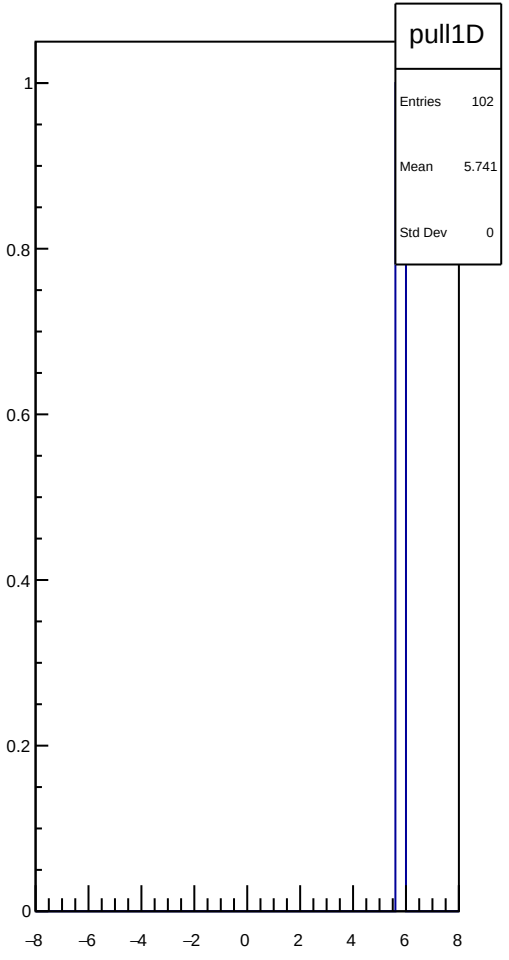

cor_dsl_rms vs run
χ² / ndf 3532 / 101
p0 536.4 ± 0.3874
640
620
600
580
560
540
520
500
480

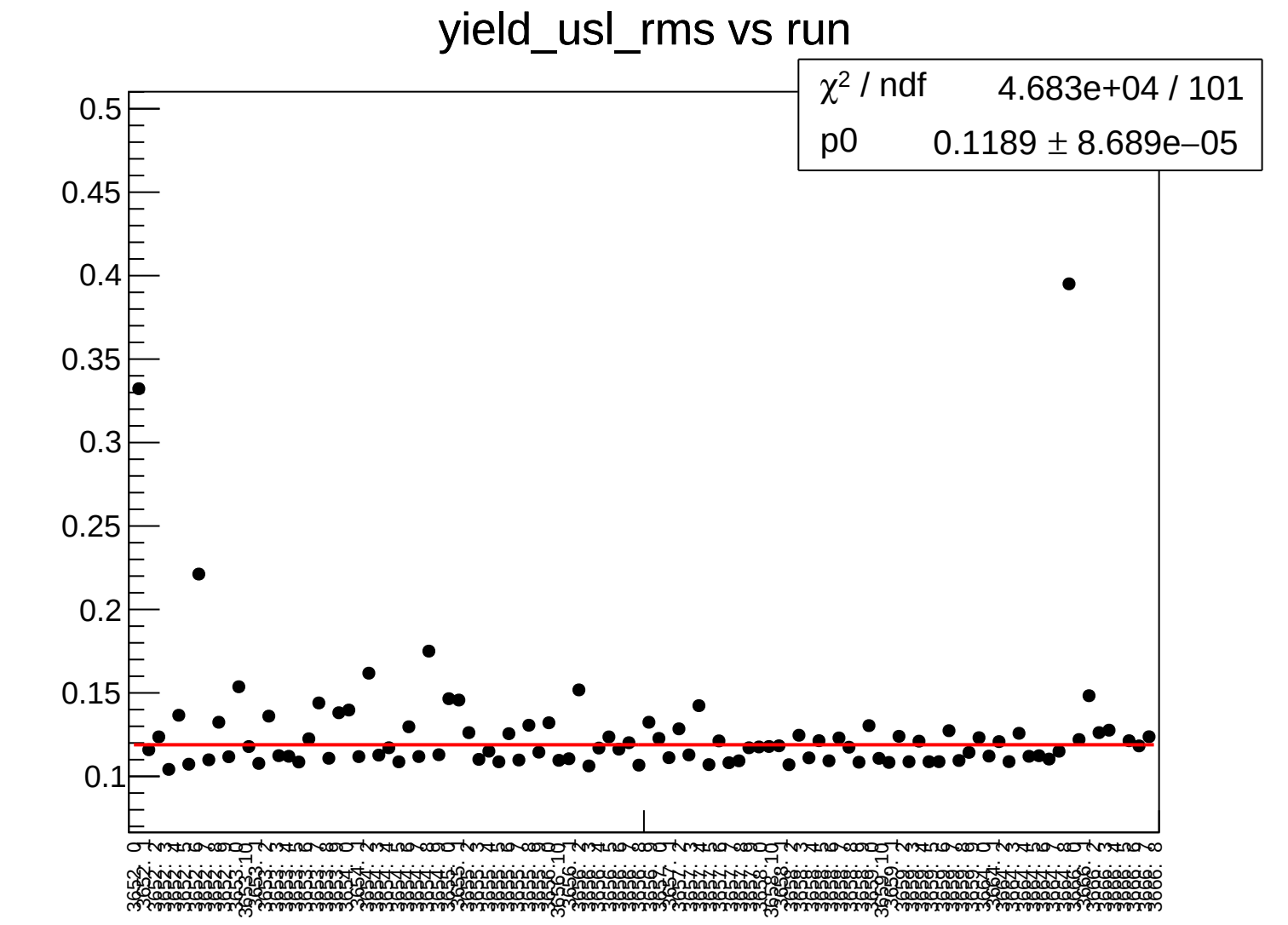

cor_dsr_mean vs run
χ² / ndf 107 / 101
p0 −34.85 ± 606.2
20000
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 102
Mean 731.8
Std Dev 697.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

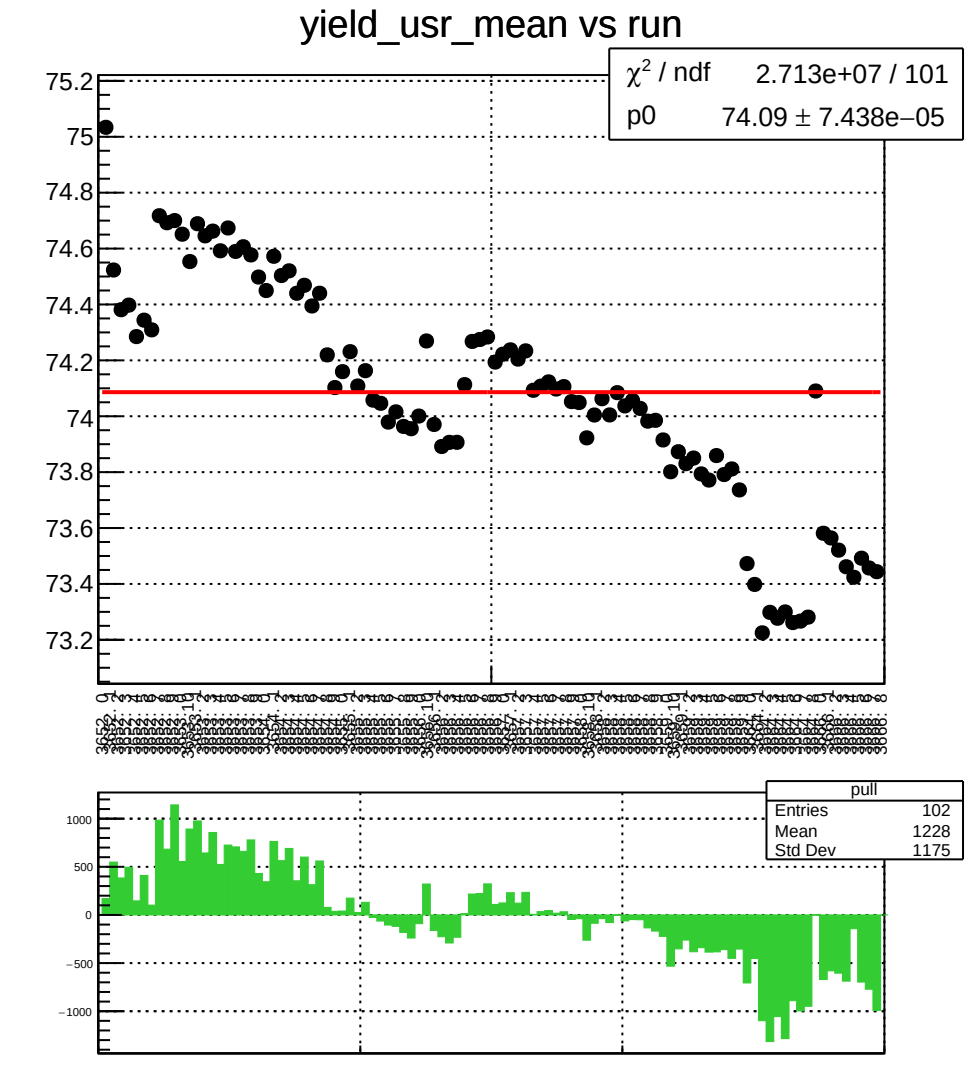

pull1D
Entries 102
Mean 0.006059
Std Dev 1.024
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

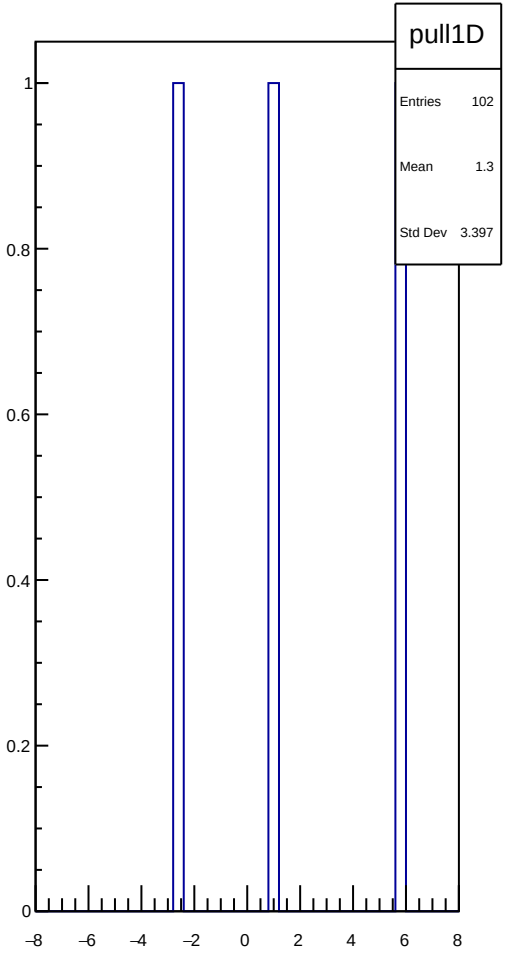

cor_dsr_rms vs run
χ² / ndf 1499 / 101
p0 593.8 ± 0.4287
640
620
600
580
560
540

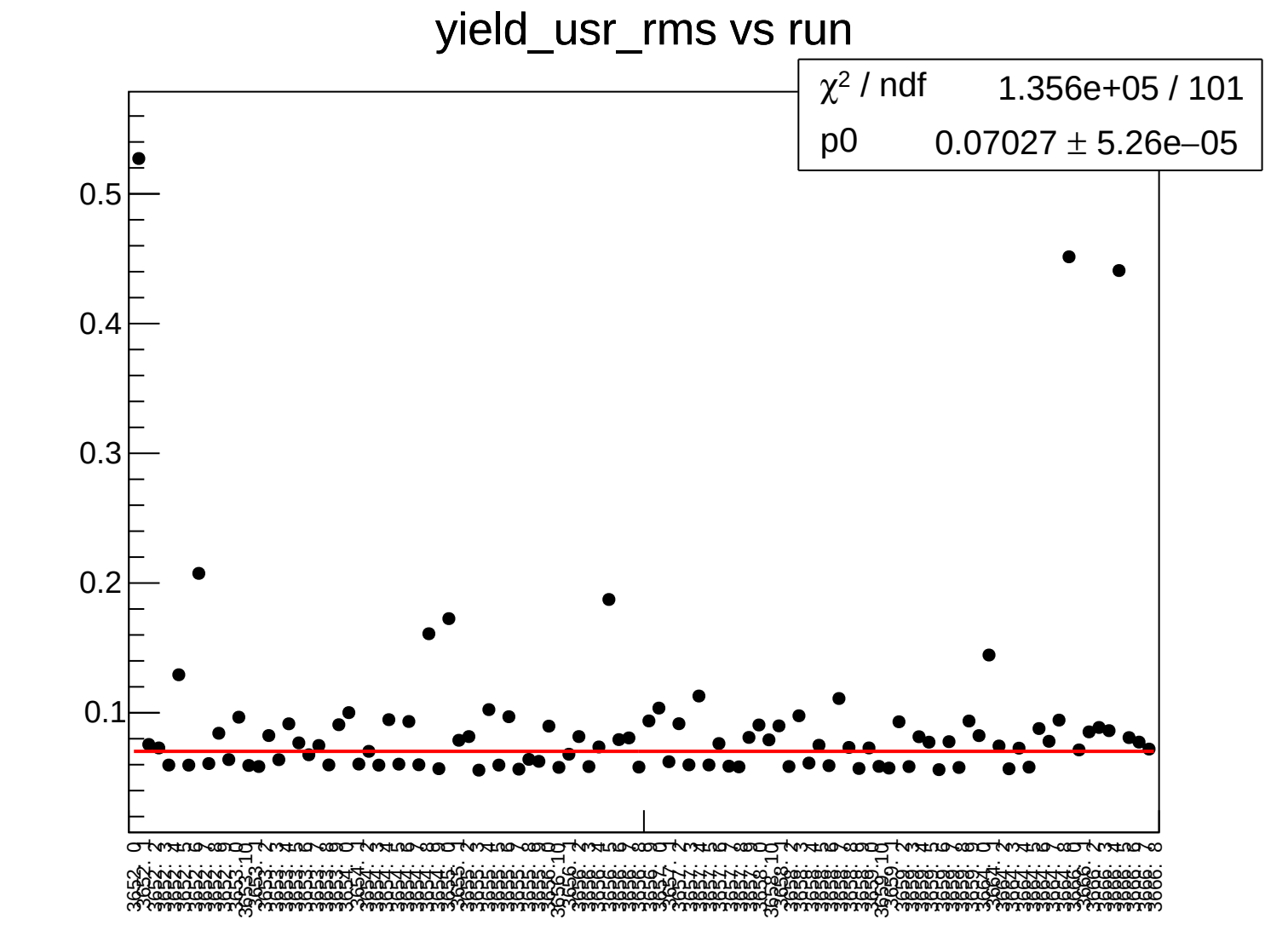

yield_usl_mean vs run
χ² / ndf 1.771e+07 / 101
p0 79.67 ± 0.0001229
80.6
80.4
80.2
80
79.8
79.6
79.4
79.2
79
78.8
78.6
pull
Entries 102
Mean −1.987e+04
Std Dev 1.992e+04
800
600
400
200
0
−200
−400
−600
−800

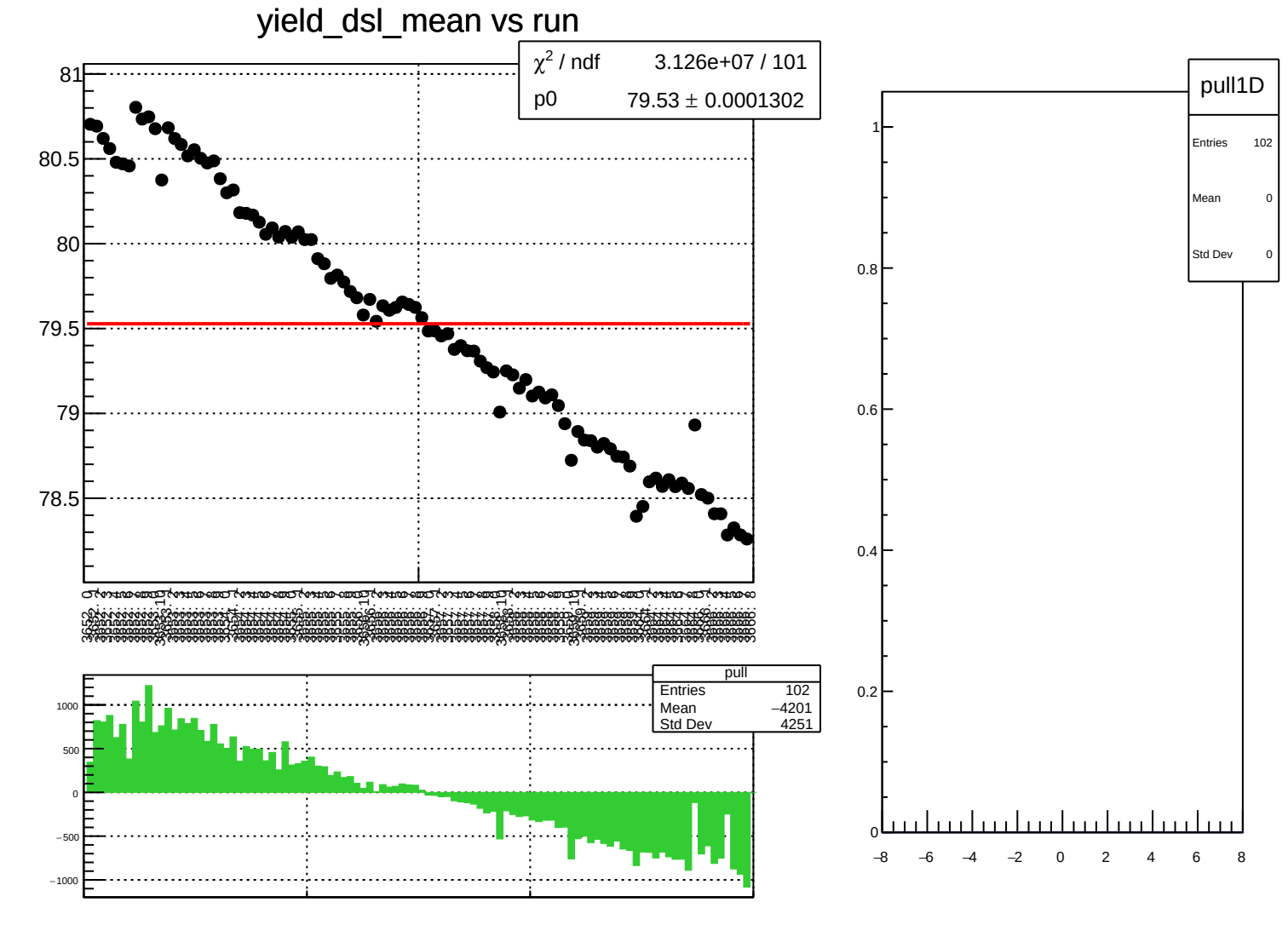

pull1D
Entries 102
Mean 5.741
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

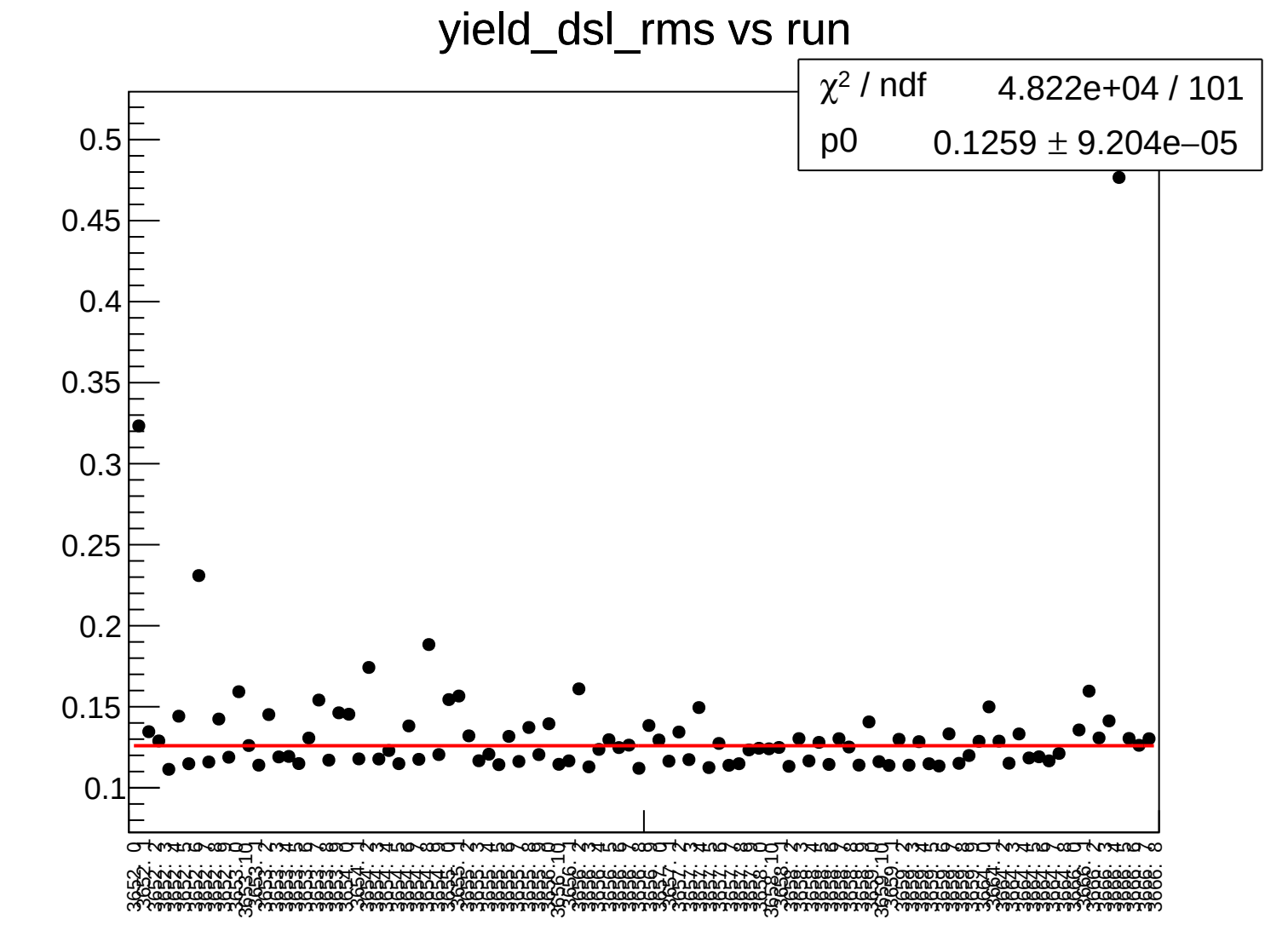

yield_usl_rms vs run
χ² / ndf 4.683e+04 / 101
p0 0.1189 ± 8.689e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

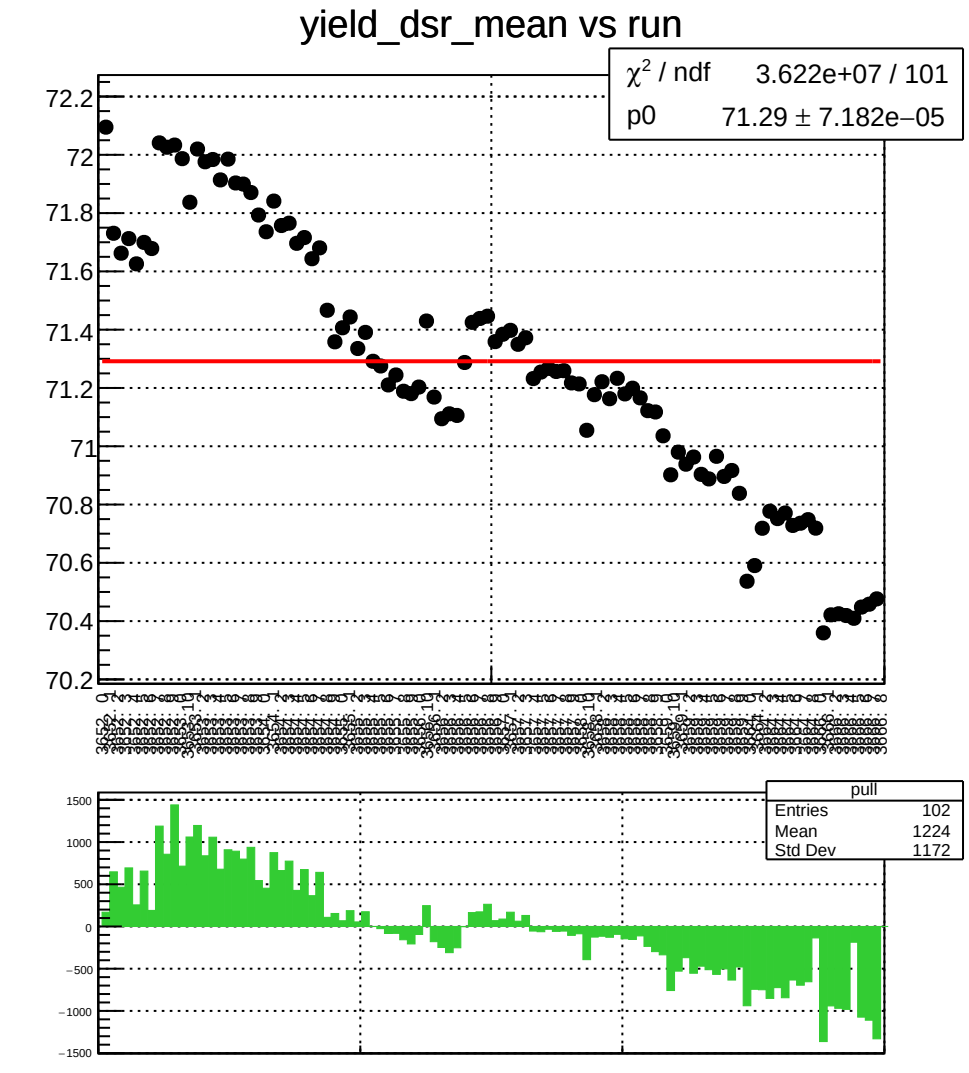

yield_usr_mean vs run
χ² / ndf 2.713e+07 / 101
p0 74.09 ± 7.438e−05
75.2
75
74.8
74.6
74.4
74.2
74
73.8
73.6
73.4
73.2
pull
Entries 102
Mean 1228
Std Dev 1175
1000
500
0
−500
−1000

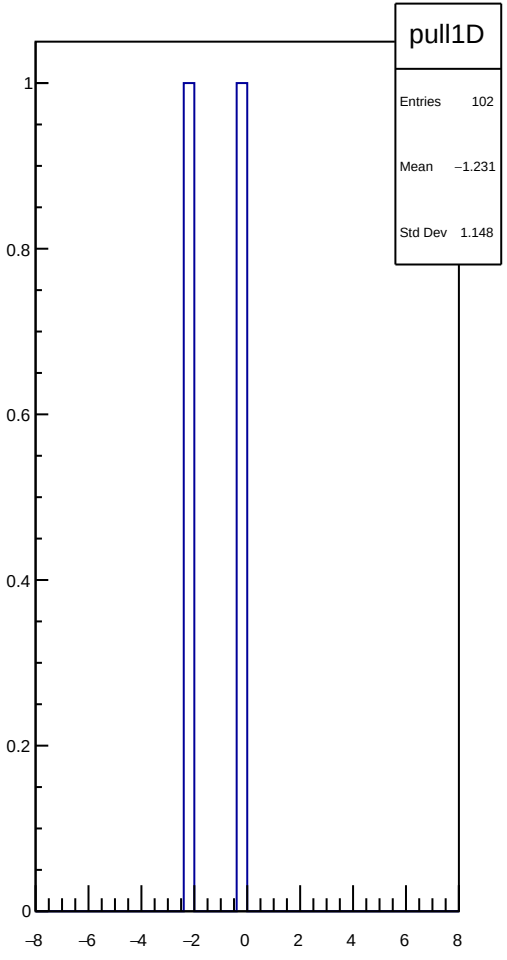

pull1D
Entries 102
Mean 1.3
Std Dev 3.397
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

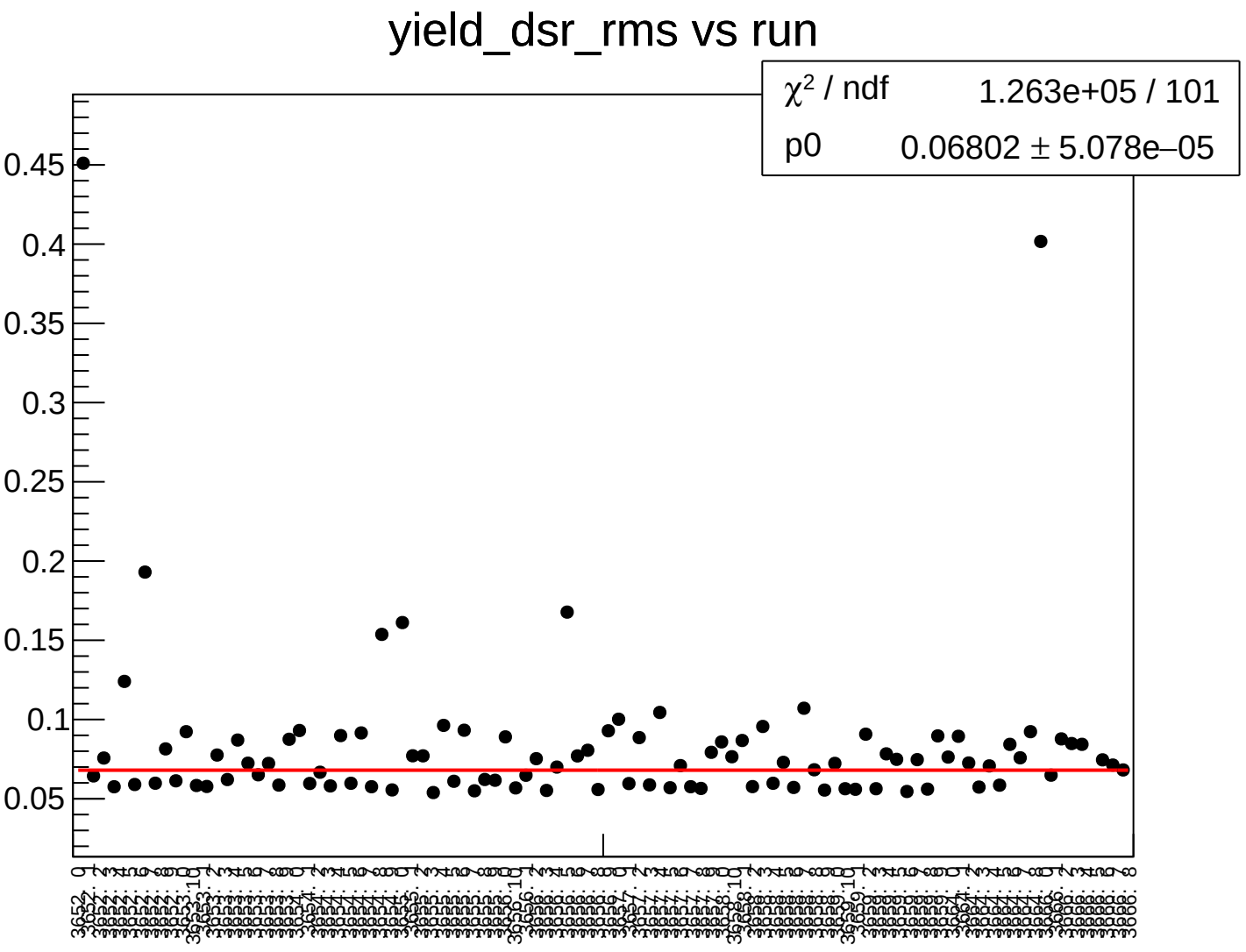

yield_usr_rms vs run
χ² / ndf 1.356e+05 / 101
p0 0.07027 ± 5.26e−05
0.5
0.4
0.3
0.2
0.1

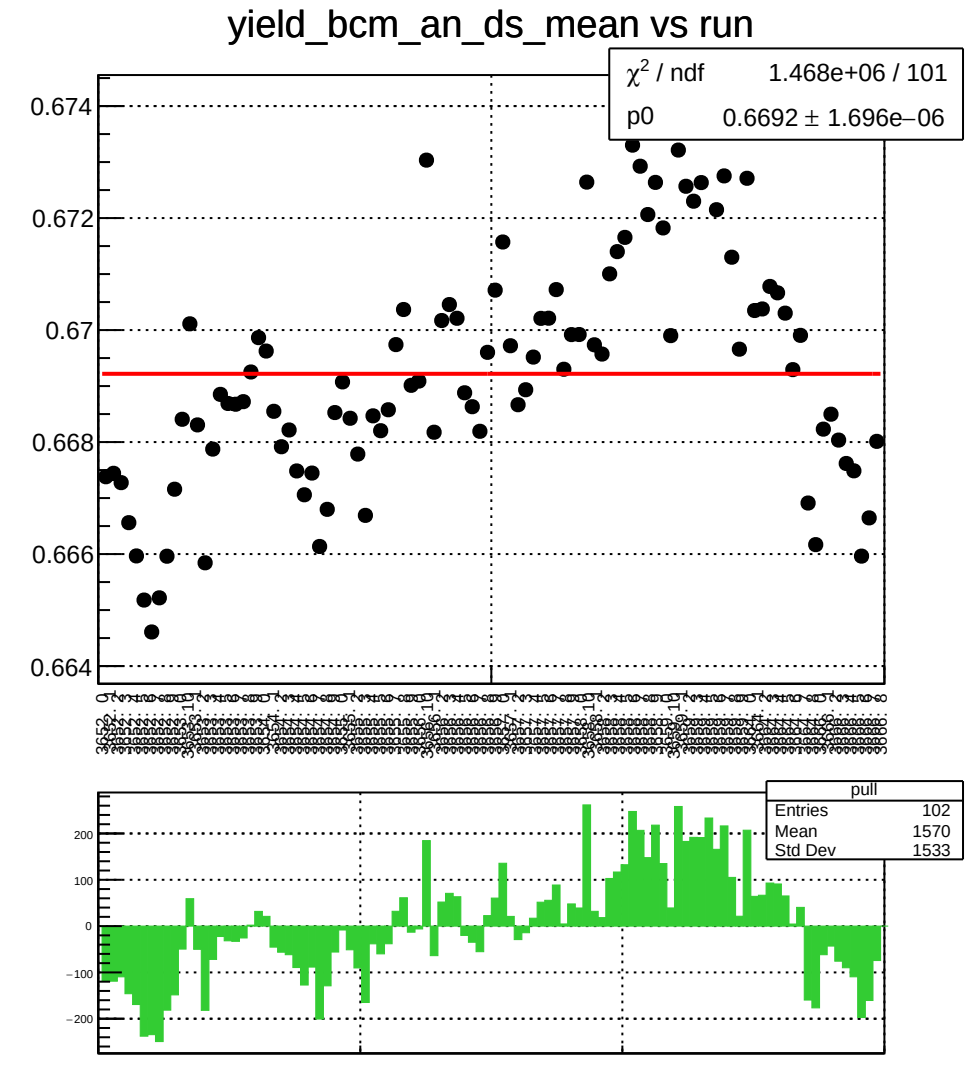

yield_dsl_mean vs run
χ² / ndf 3.126e+07 / 101
p0 79.53 ± 0.0001302
81
80.5
80
79.5
79
78.5
pull
Entries 102
Mean −4201
Std Dev 4251
1000
500
0
−500
−1000
pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

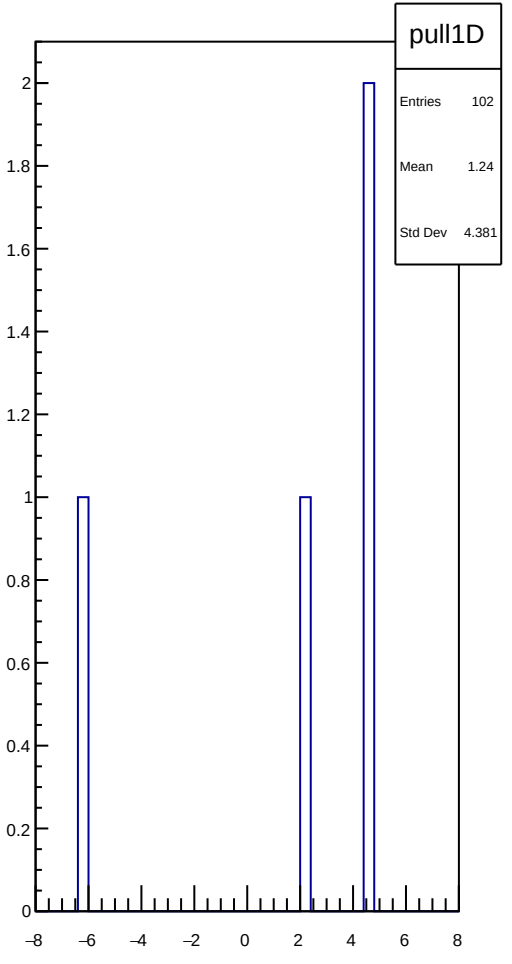

yield_dsl_rms vs run
χ² / ndf 4.822e+04 / 101
p0 0.1259 ± 9.204e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1

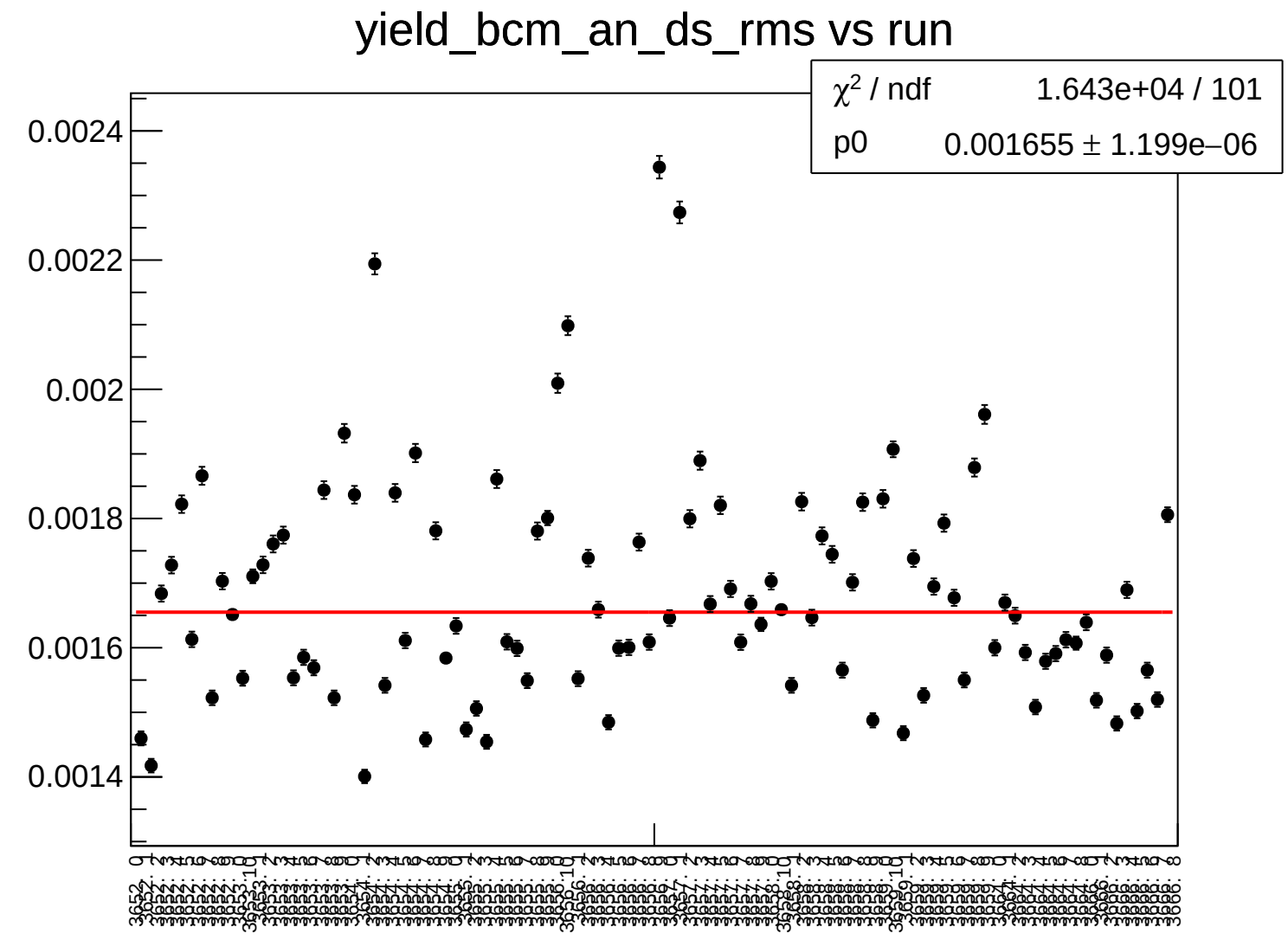

yield_dsr_mean vs run
χ² / ndf 3.622e+07 / 101
p0 71.29 ± 7.182e−05
72.2
72
71.8
71.6
71.4
71.2
71
70.8
70.6
70.4
70.2
pull
Entries 102
Mean 1224
Std Dev 1172
1500
1000
500
0
−500
−1000
−1500

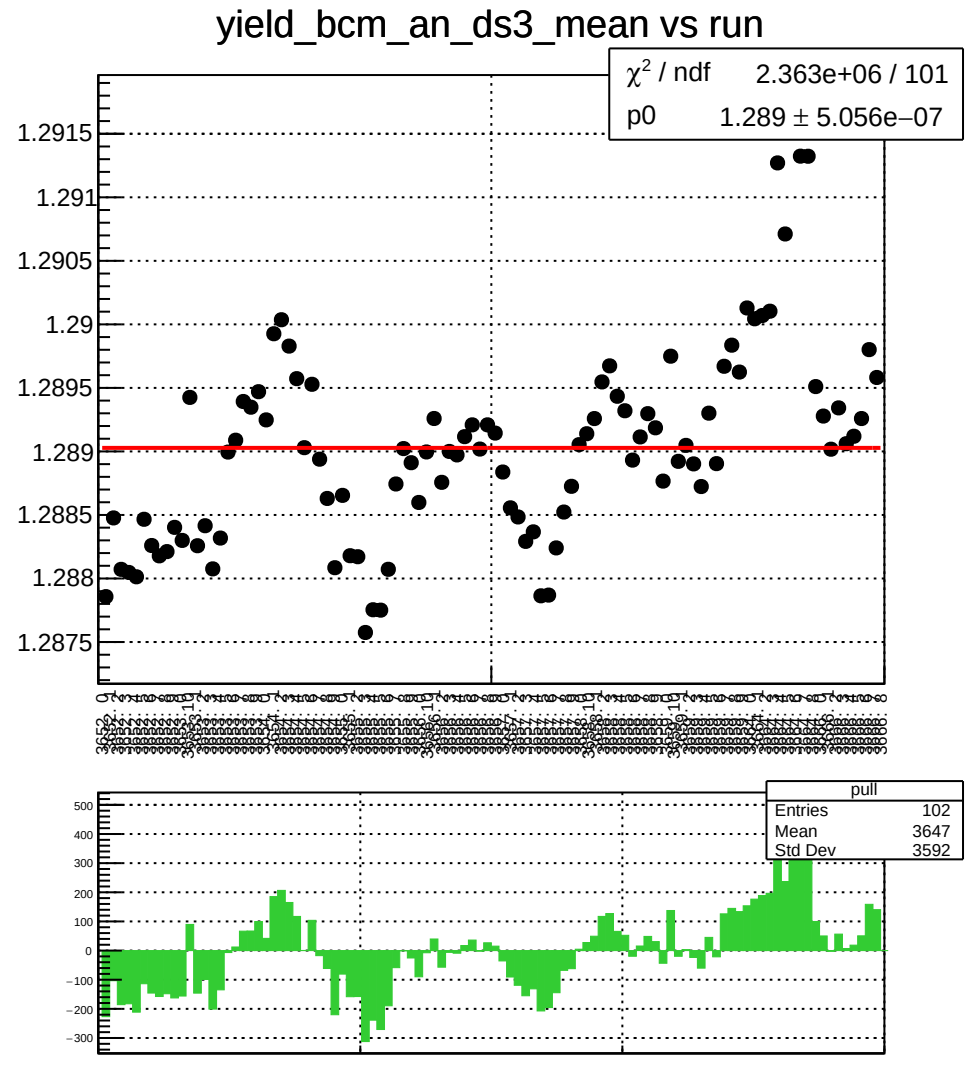

pull1D
Entries 102
Mean −1.231
Std Dev 1.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

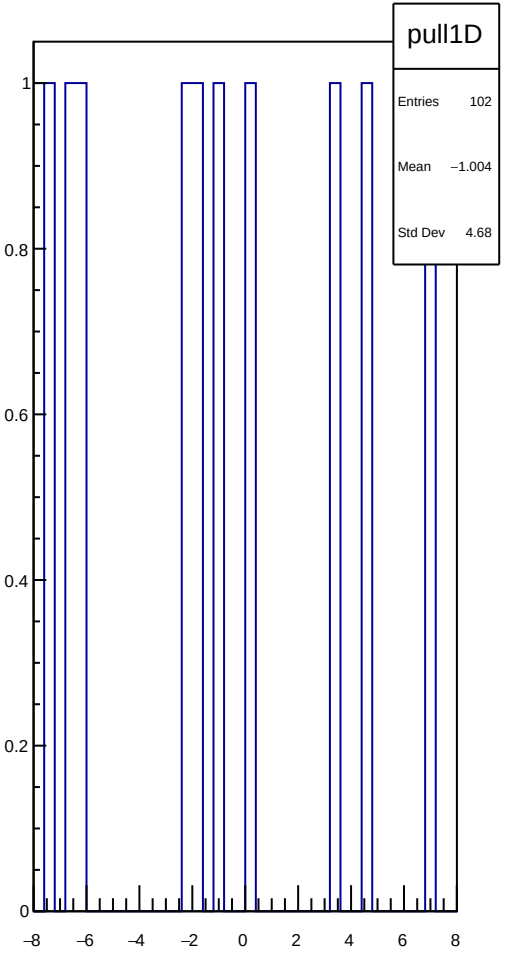

yield_dsr_rms vs run
χ² / ndf 1.263e+05 / 101
p0 0.06802 ± 5.078e−05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

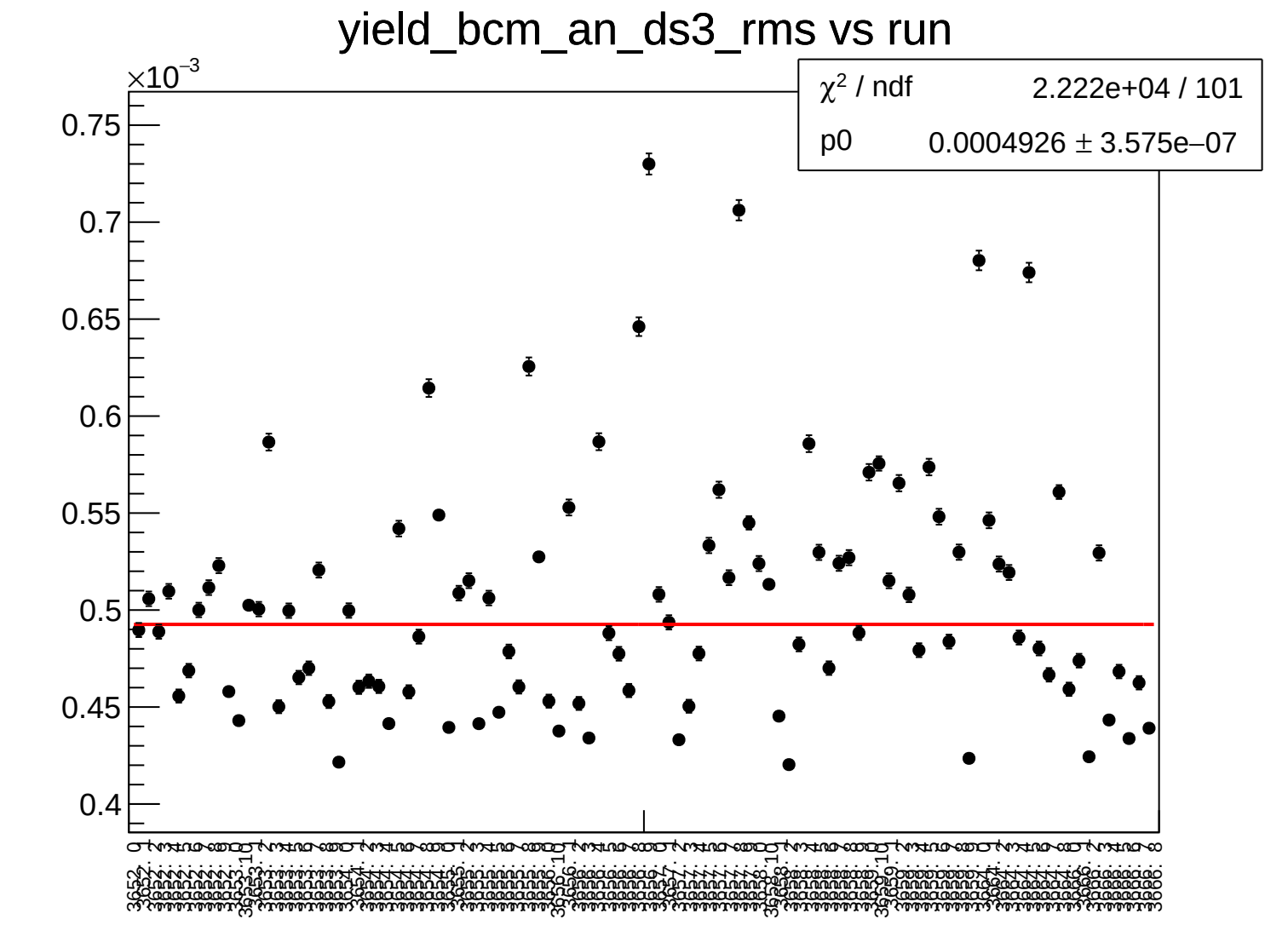

yield_bcm_an_ds_mean vs run
χ² / ndf 1.468e+06 / 101
p0 0.6692 ± 1.696e−06
0.674
0.672
0.67
0.668
0.666
0.664
pull
Entries 102
Mean 1570
Std Dev 1533
200
100
0
−100
−200

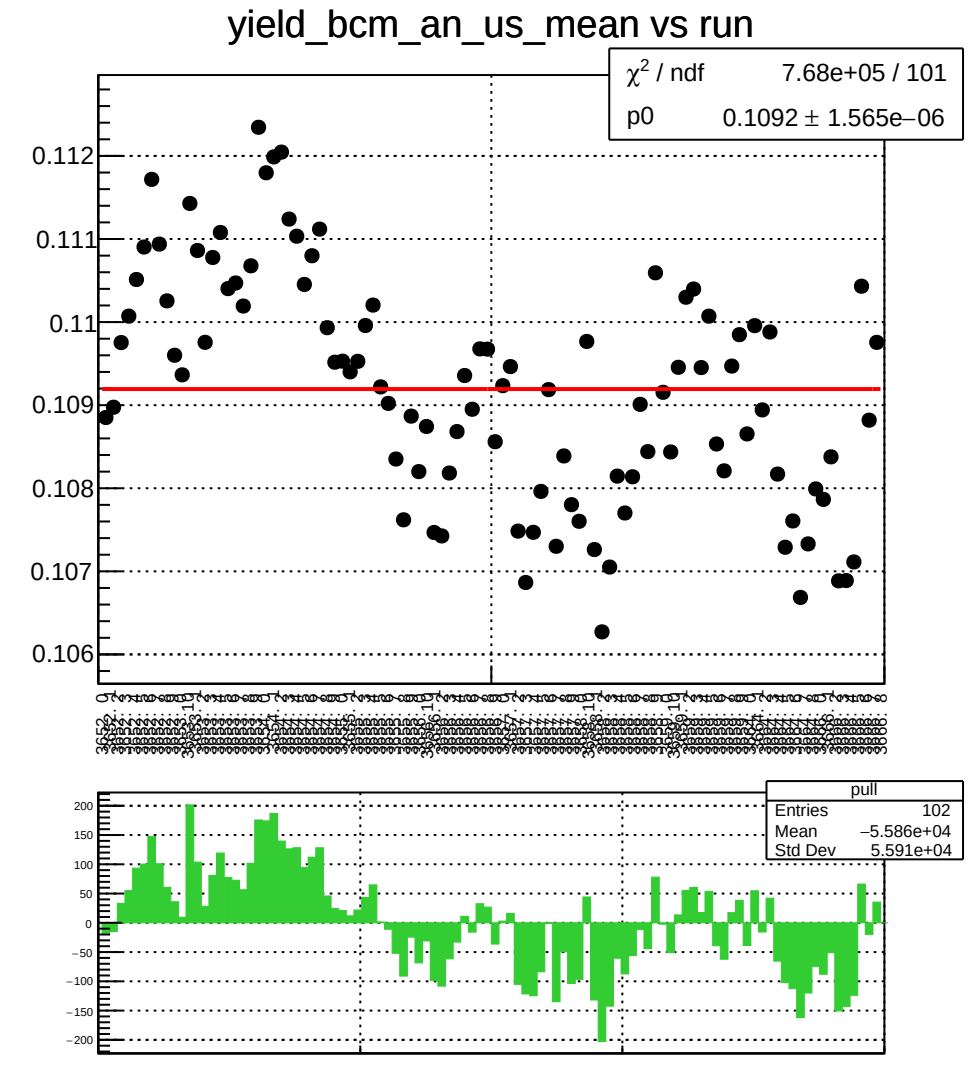

pull1D
Entries 102
Mean 1.24
Std Dev 4.381
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

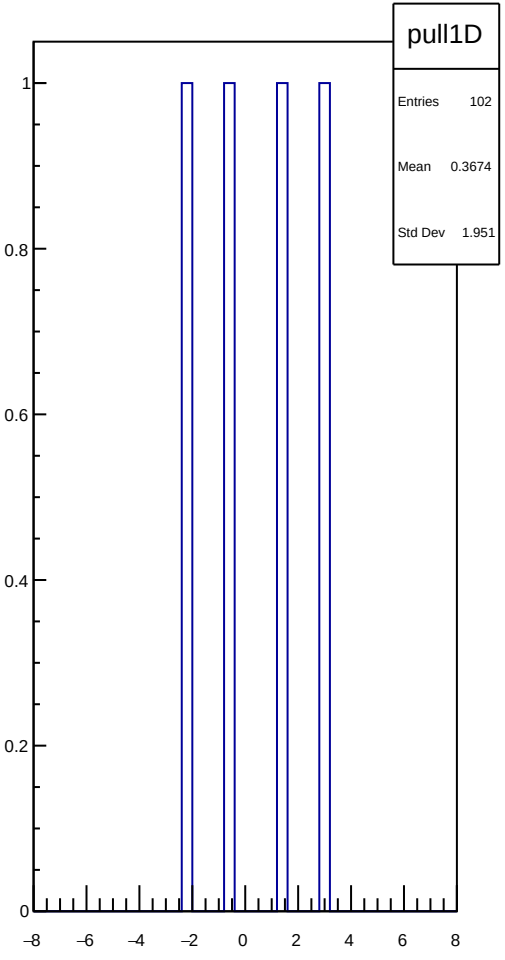

yield_bcm_an_ds_rms vs run
χ² / ndf 1.643e+04 / 101
p0 0.001655 ± 1.199e−06
0.0024
0.0022
0.002
0.0018
0.0016
0.0014

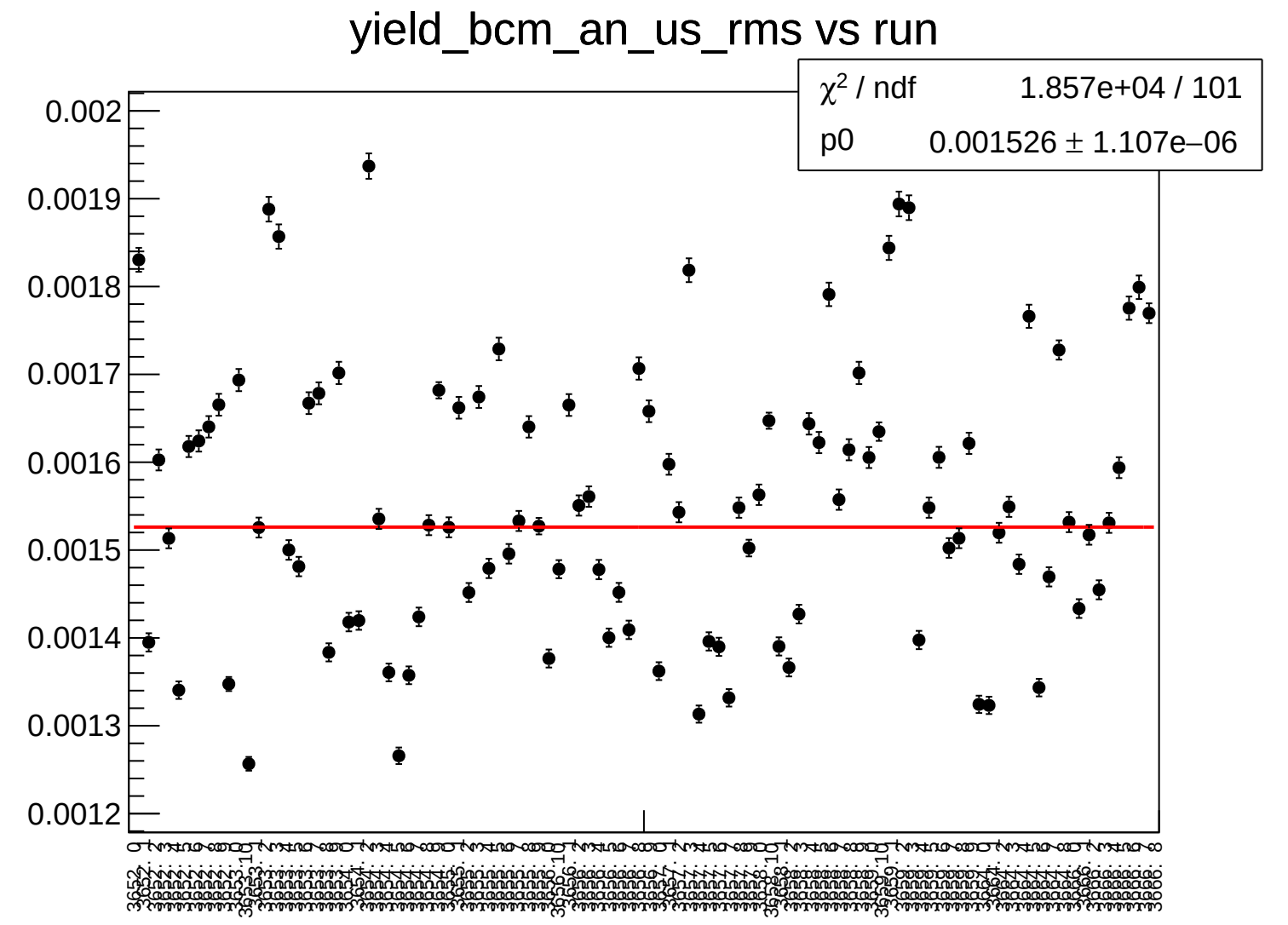

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.363e+06 / 101
p0 1.289 ± 5.056e−07
1.2915
1.291
1.2905
1.29
1.2895
1.289
1.2885
1.288
1.2875
pull
Entries 102
Mean 3647
Std Dev 3592
500
400
300
200
100
0
−100
−200
−300

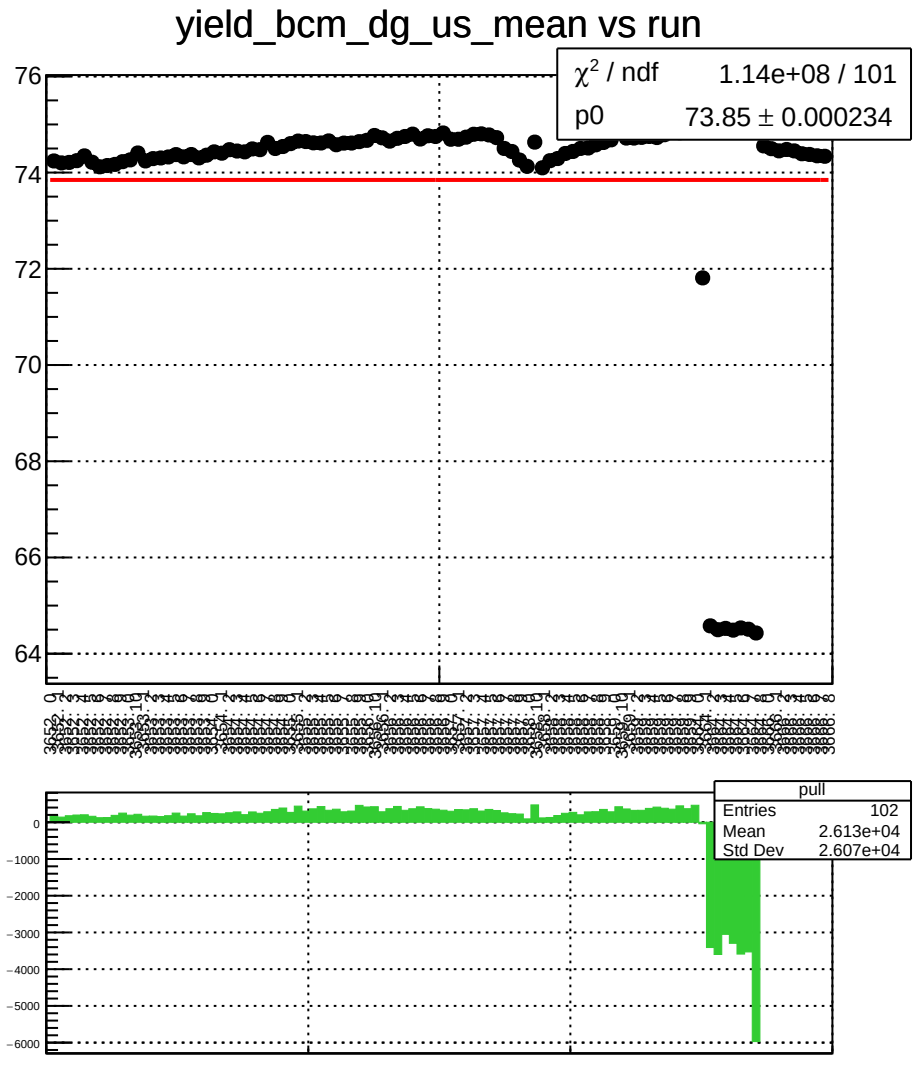

pull1D
Entries 102
Mean −1.004
Std Dev 4.68
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

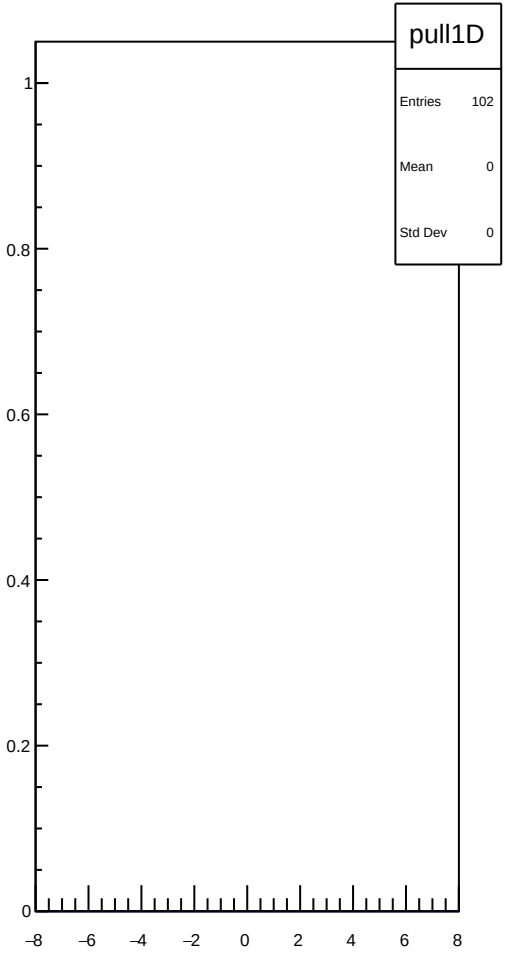

yield_bcm_an_ds3_rms vs run
×10⁻³
χ² / ndf 2.222e+04 / 101
p0 0.0004926 ± 3.575e−07
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4

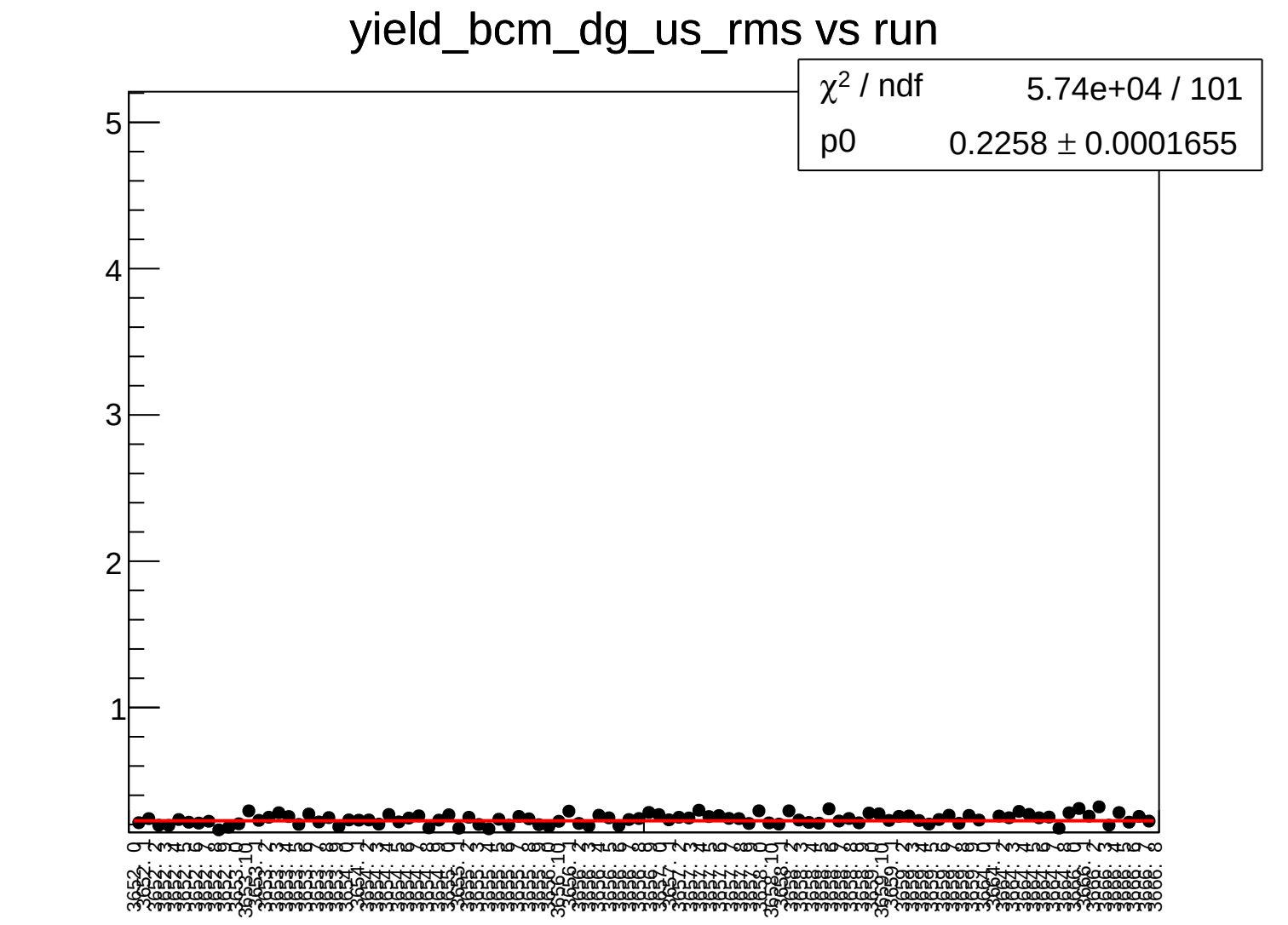

yield_bcm_an_us_mean vs run
χ² / ndf 7.68e+05 / 101
p0 0.1092 ± 1.565e−06
0.112
0.111
0.11
0.109
0.108
0.107
0.106
pull
Entries 102
Mean −5.586e+04
Std Dev 5.591e+04
200
150
100
50
0
−50
−100
−150
−200

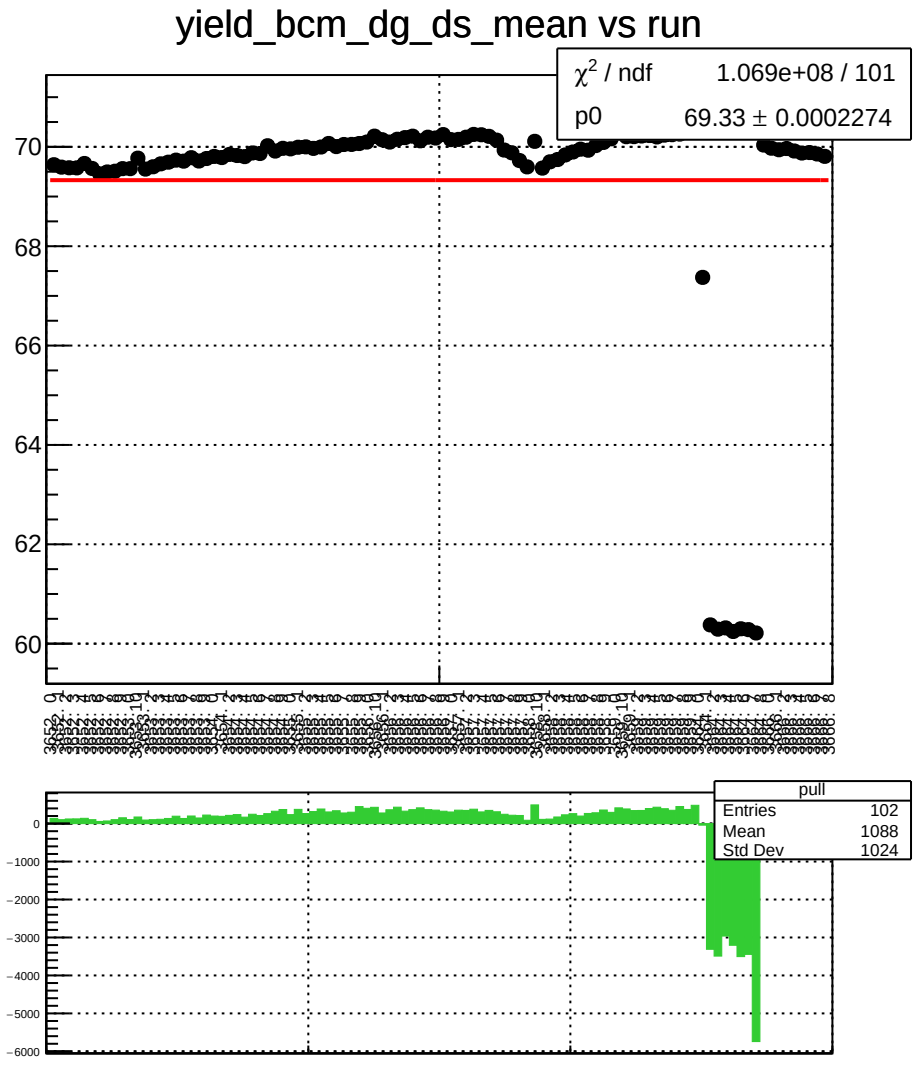

pull1D
Entries 102
Mean 0.3674
Std Dev 1.951
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

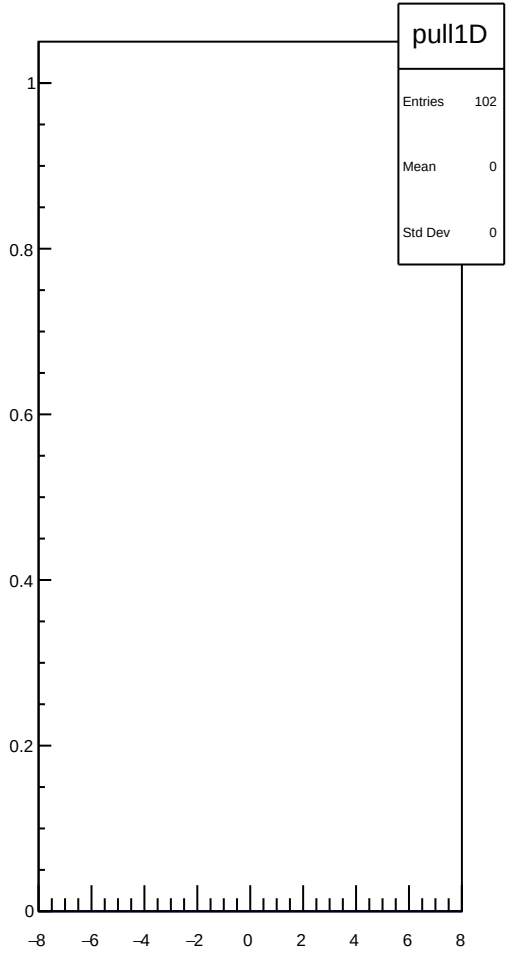

yield_bcm_an_us_rms vs run
χ² / ndf 1.857e+04 / 101
p0 0.001526 ± 1.107e−06
0.002
0.0019
0.0018
0.0017
0.0016
0.0015
0.0014
0.0013
0.0012

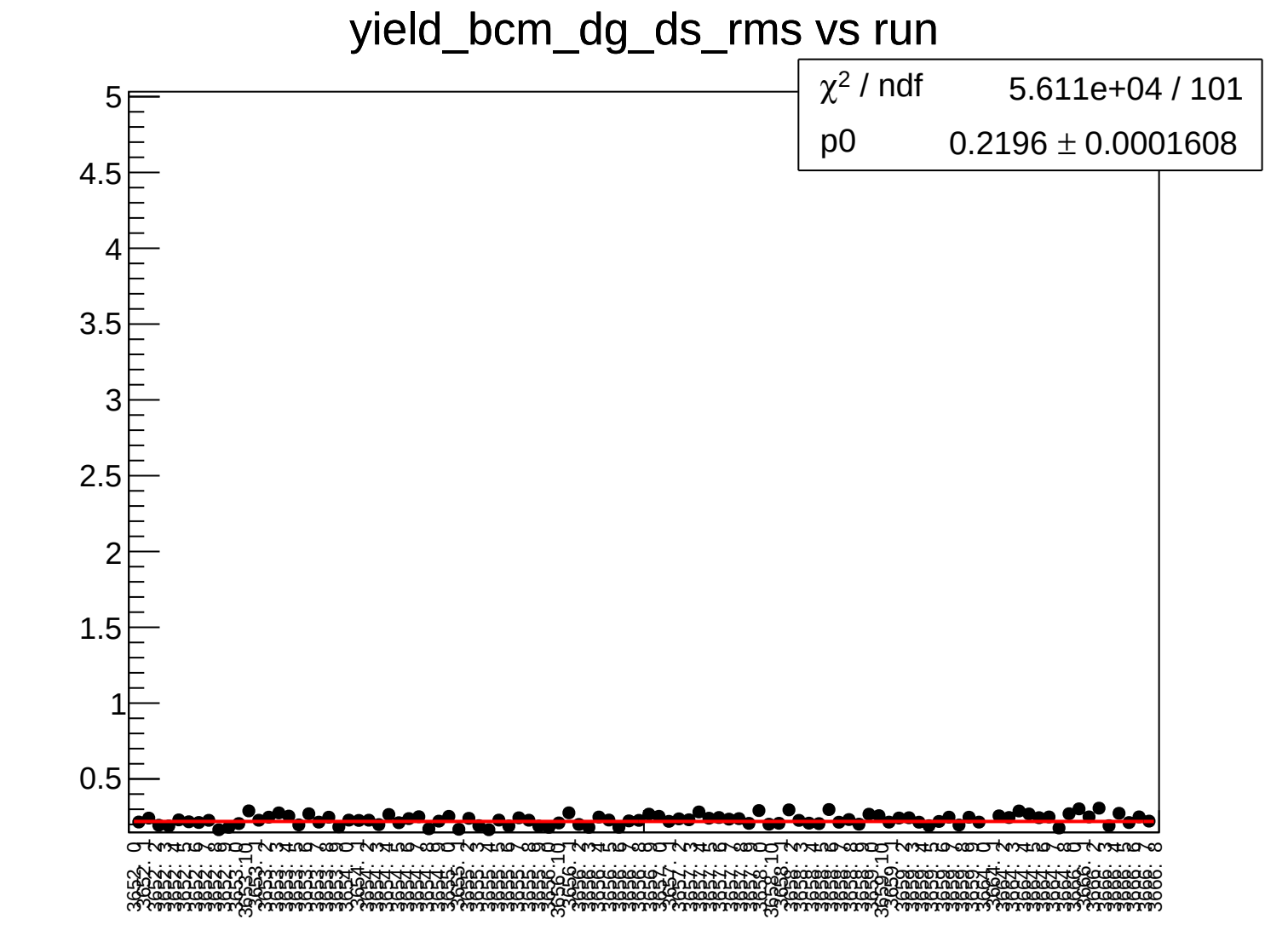

yield_bcm_dg_us_mean vs run
χ² / ndf 1.14e+08 / 101
p0 73.85 ± 0.000234
76
74
72
70
68
66
64
pull
Entries 102
Mean 2.613e+04
Std Dev 2.607e+04
0
−1000
−2000
−3000
−4000
−5000
−6000

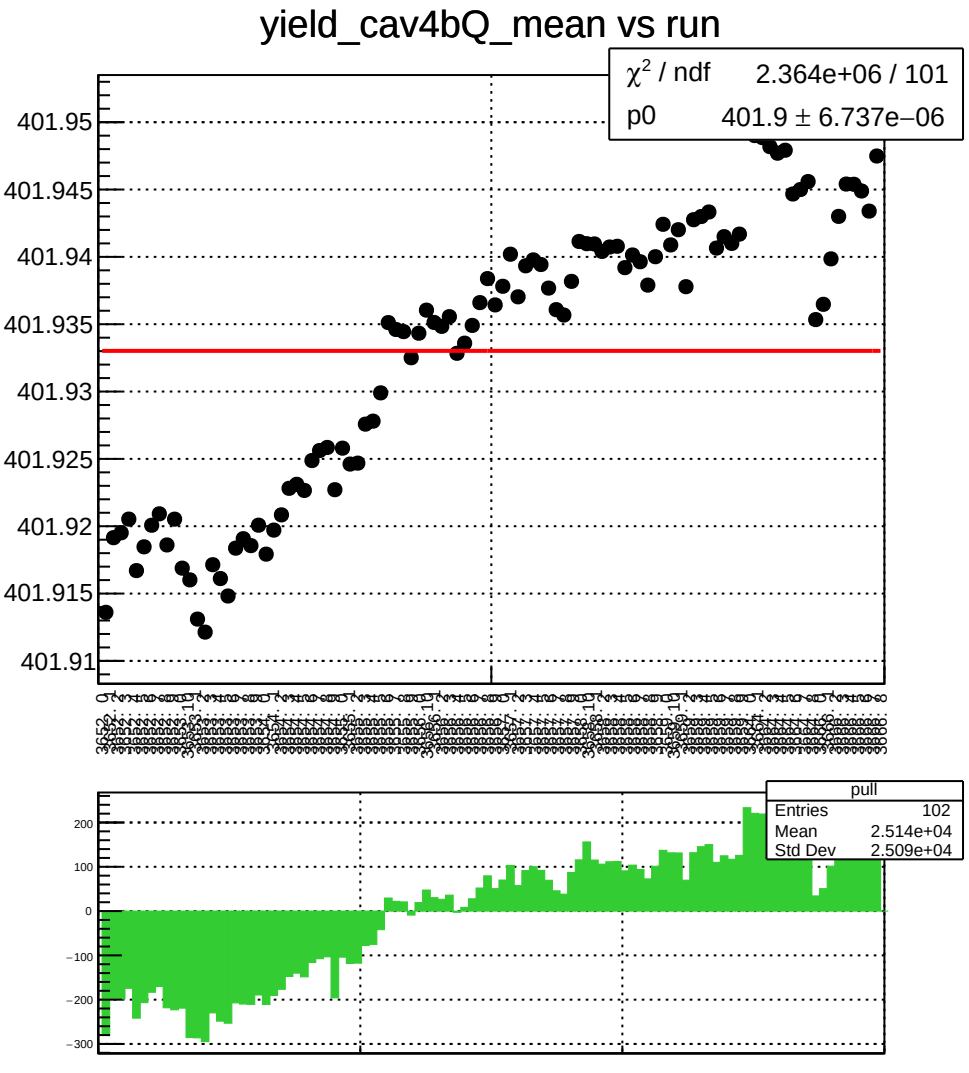

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

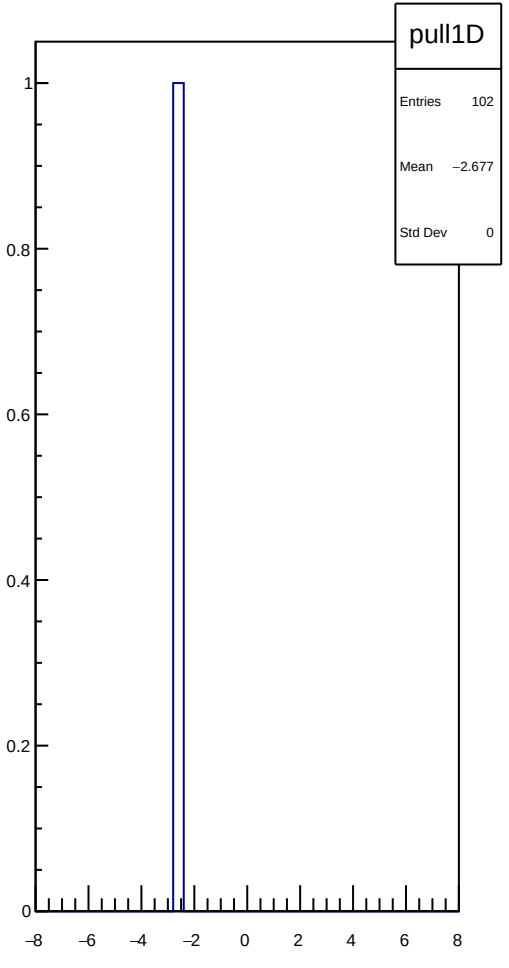

yield_bcm_dg_us_rms vs run
χ² / ndf 5.74e+04 / 101
p0 0.2258 ± 0.0001655
5
4
3
2
1

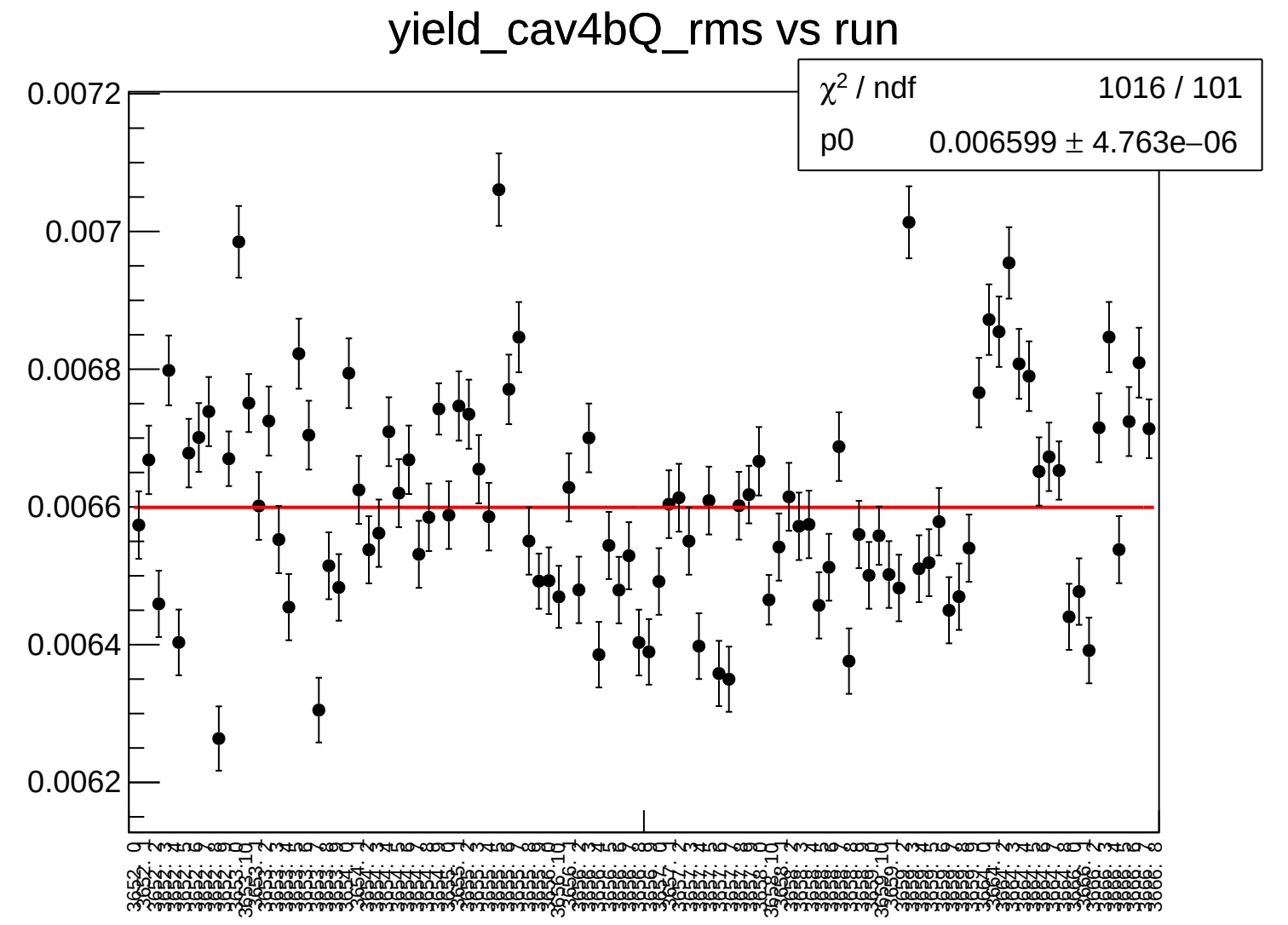

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.069e+08 / 101
p0 69.33 ± 0.0002274
70
68
66
64
62
60
pull
Entries 102
Mean 1088
Std Dev 1024
0
−1000
−2000
−3000
−4000
−5000
−6000

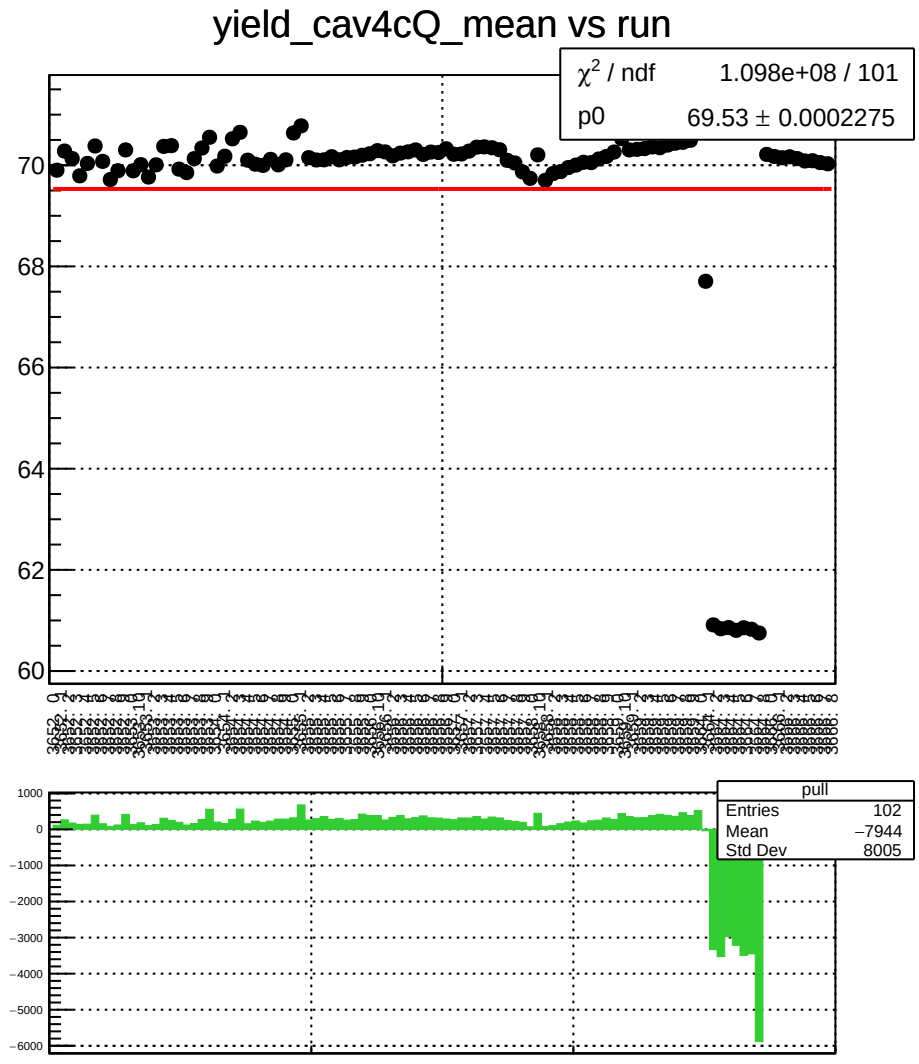

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

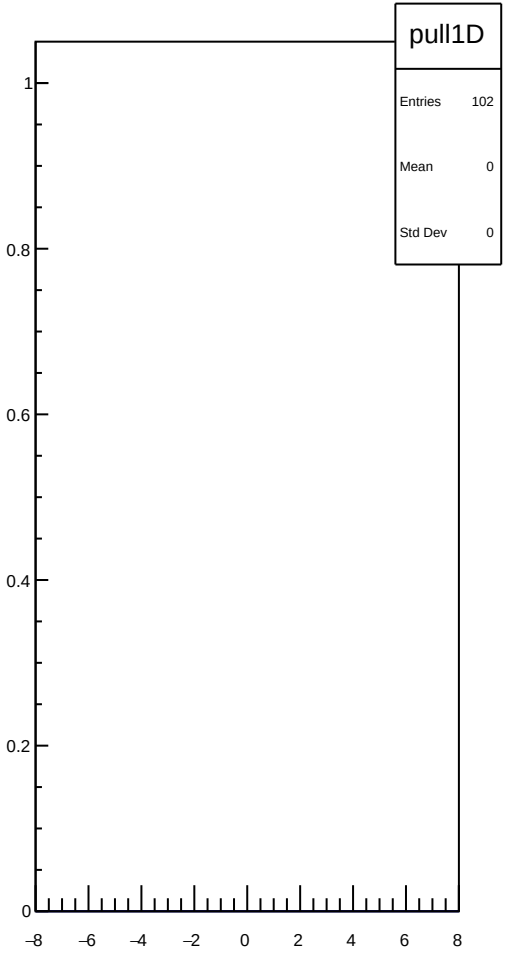

yield_bcm_dg_ds_rms vs run
χ² / ndf 5.611e+04 / 101
p0 0.2196 ± 0.0001608
5
4.5
4
3.5
3
2.5
2
1.5
1
0.5

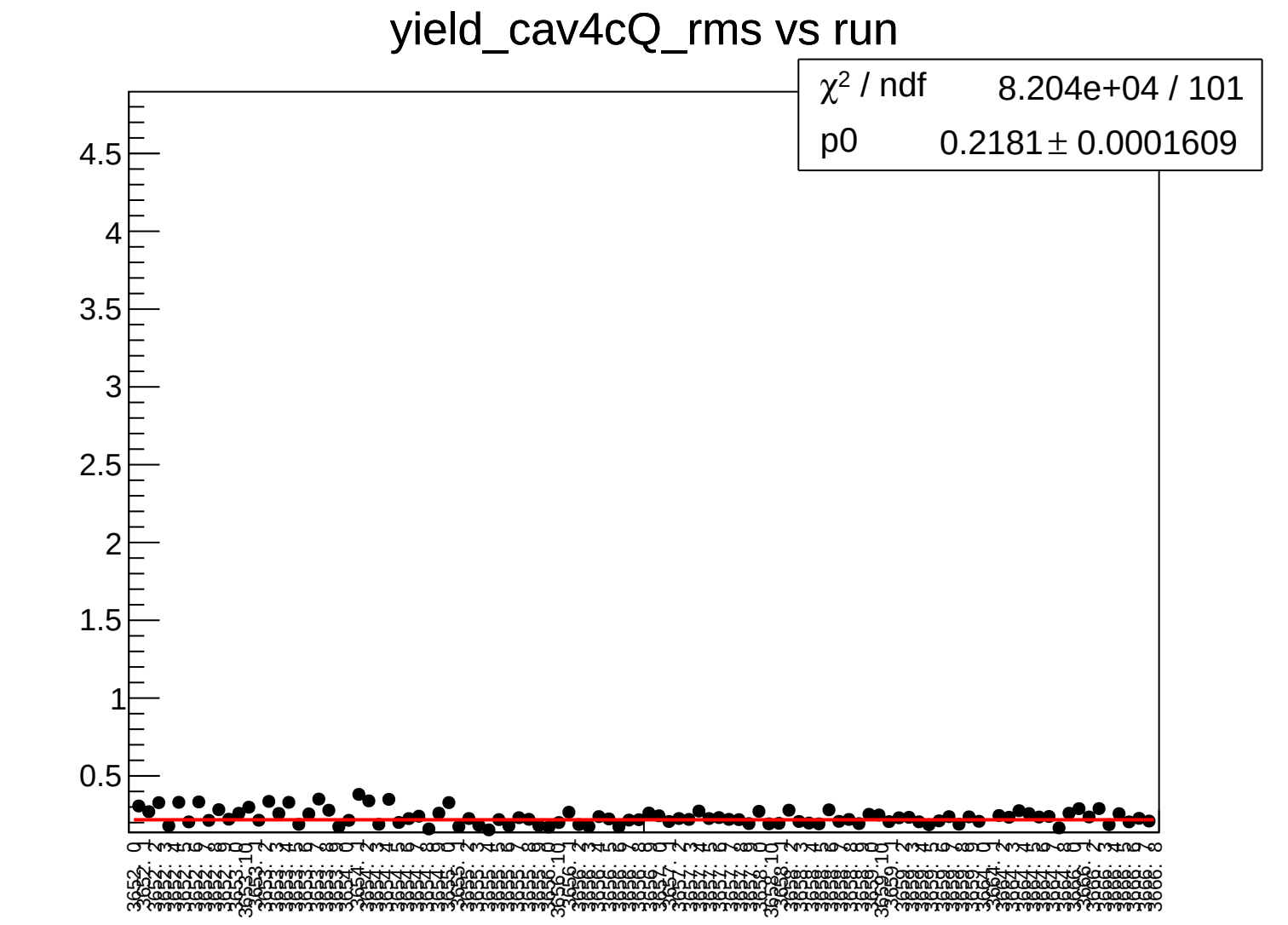

yield_cav4bQ_mean vs run
χ² / ndf 2.364e+06 / 101
p0 401.9 ± 6.737e−06
401.95
401.945
401.94
401.935
401.93
401.925
401.92
401.915
401.91
pull
Entries 102
Mean 2.514e+04
Std Dev 2.509e+04
200
100
0
−100
−200
−300

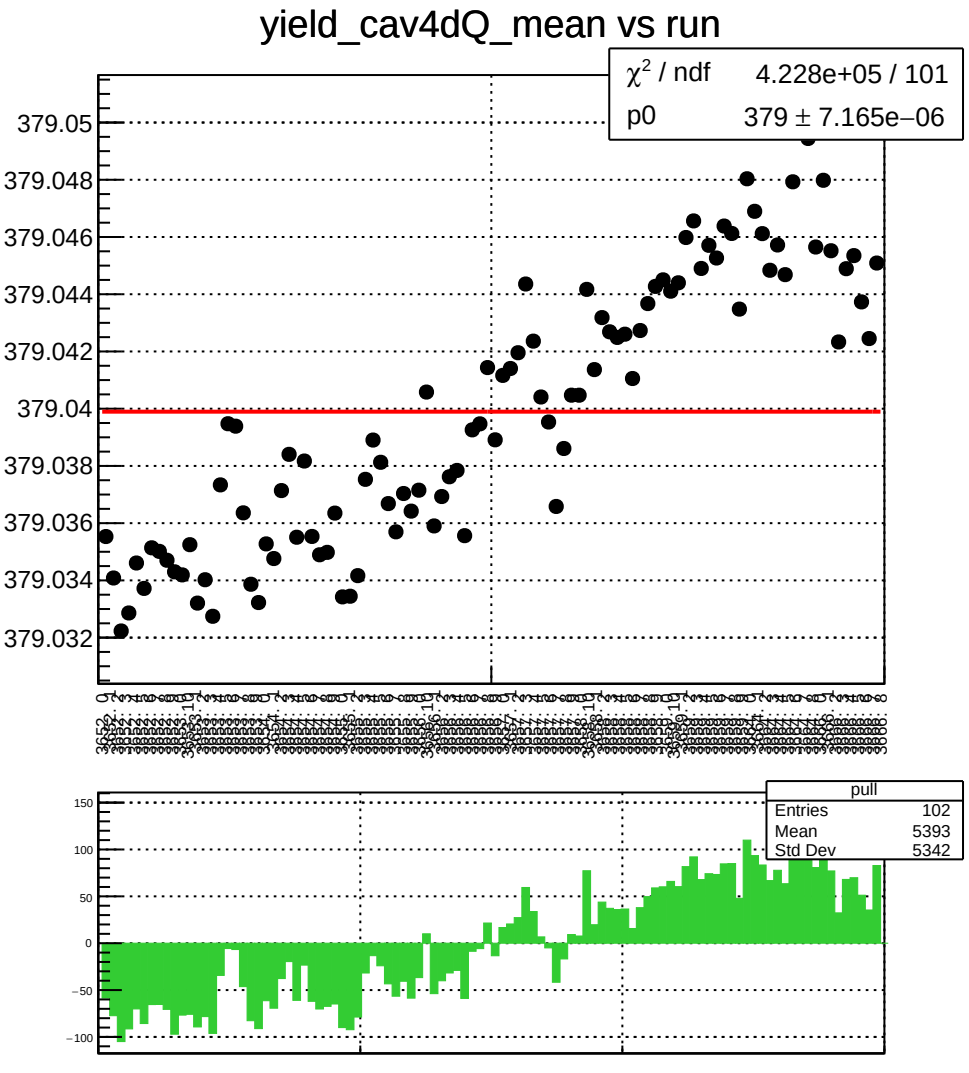

pull1D
Entries 102
Mean −2.677
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

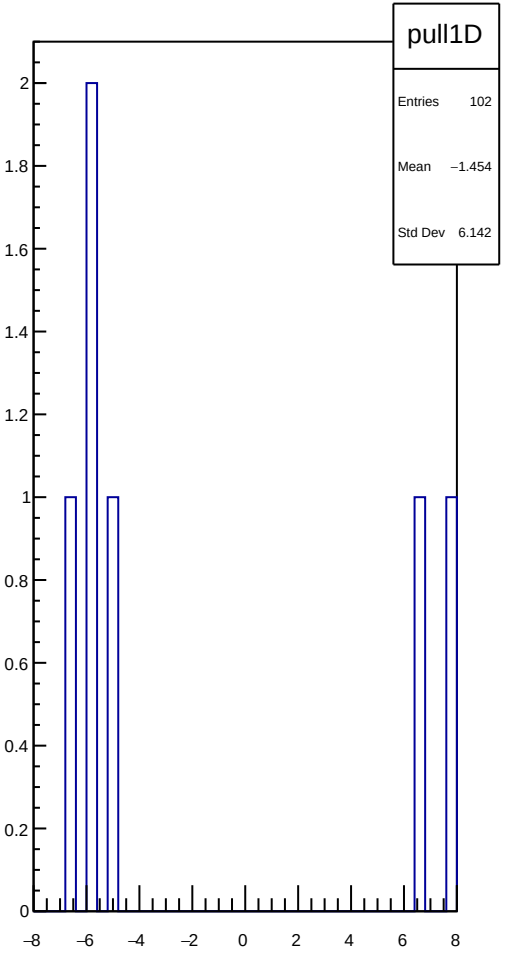

yield_cav4bQ_rms vs run
χ² / ndf 1016 / 101
p0 0.006599 ± 4.763e−06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062

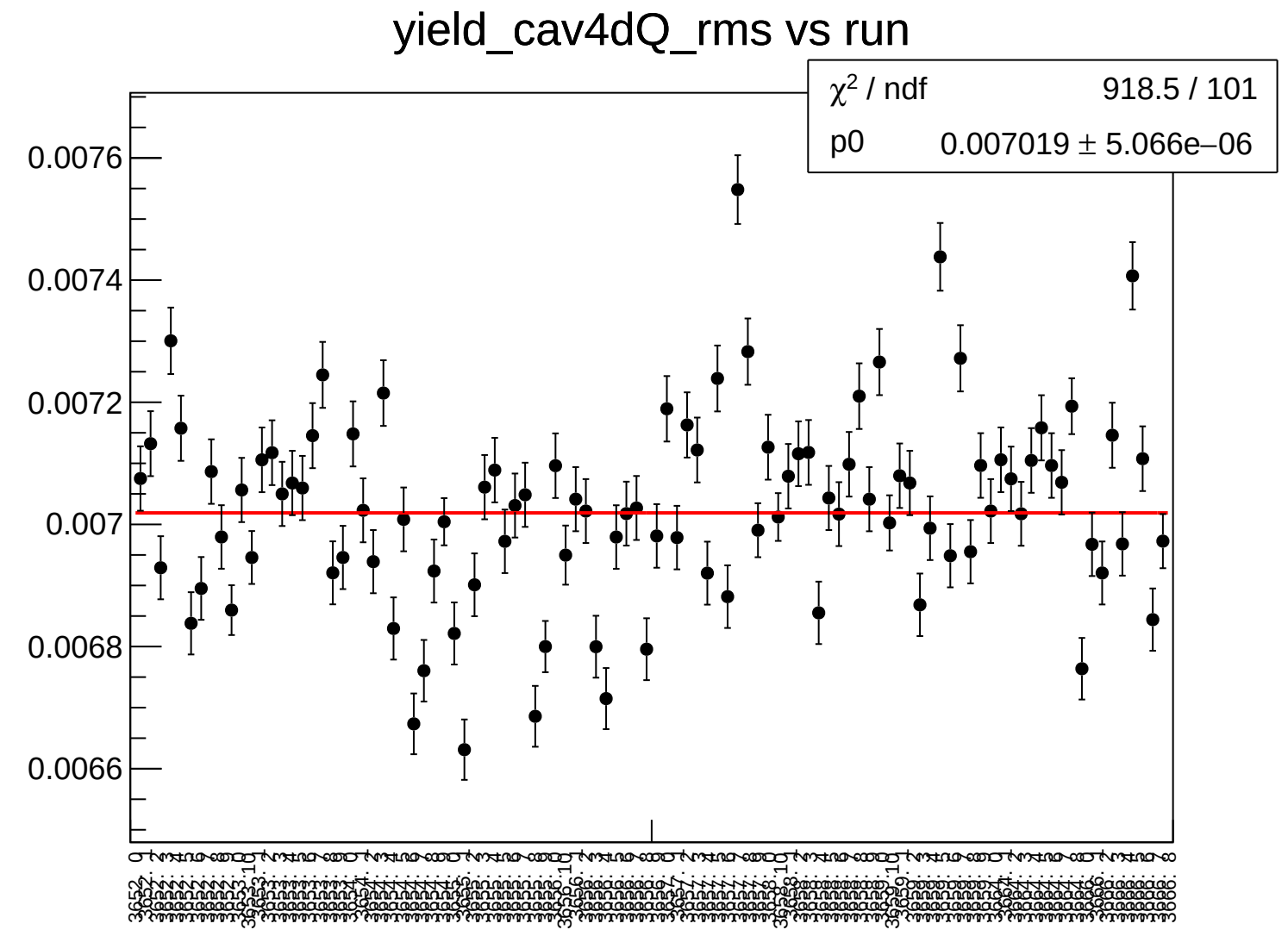

yield_cav4cQ_mean vs run
χ² / ndf 1.098e+08 / 101
p0 69.53 ± 0.0002275
70
68
66
64
62
60
pull
Entries 102
Mean −7944
Std Dev 8005
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

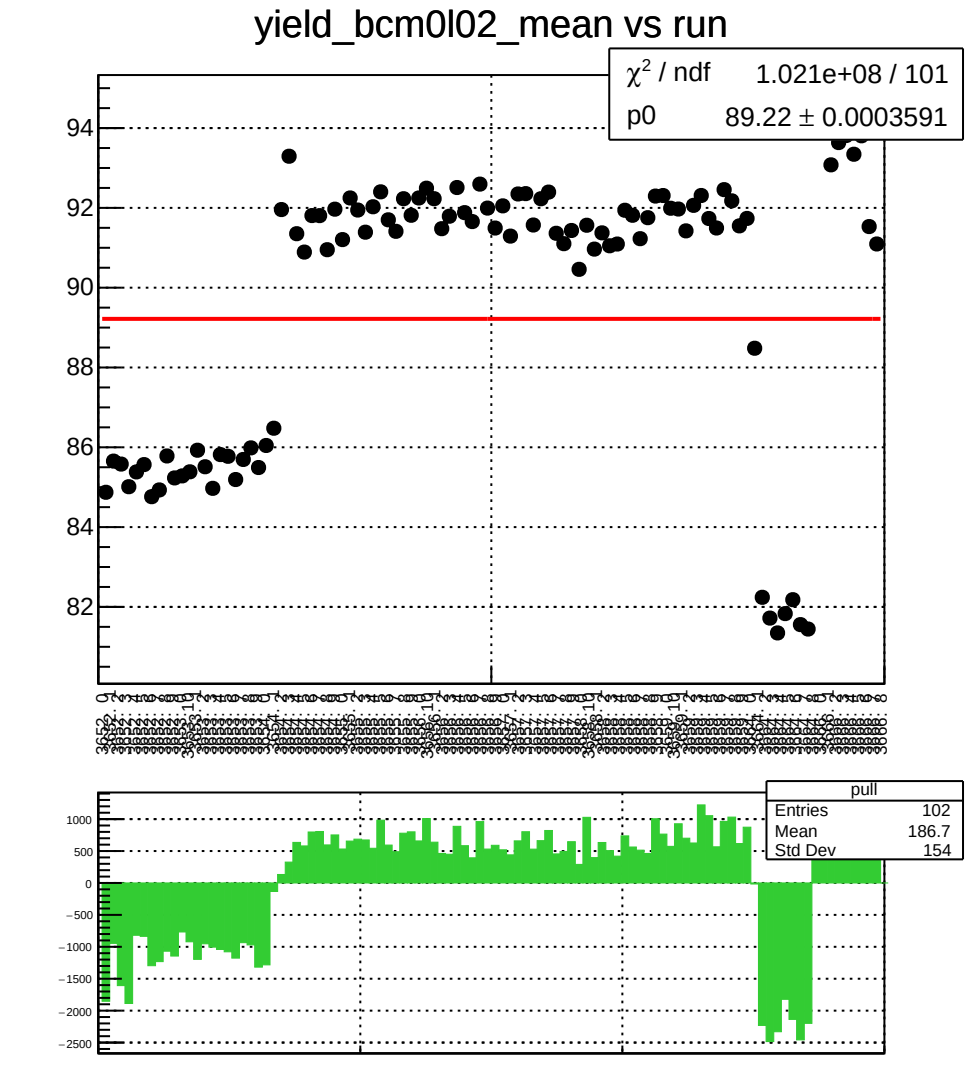

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

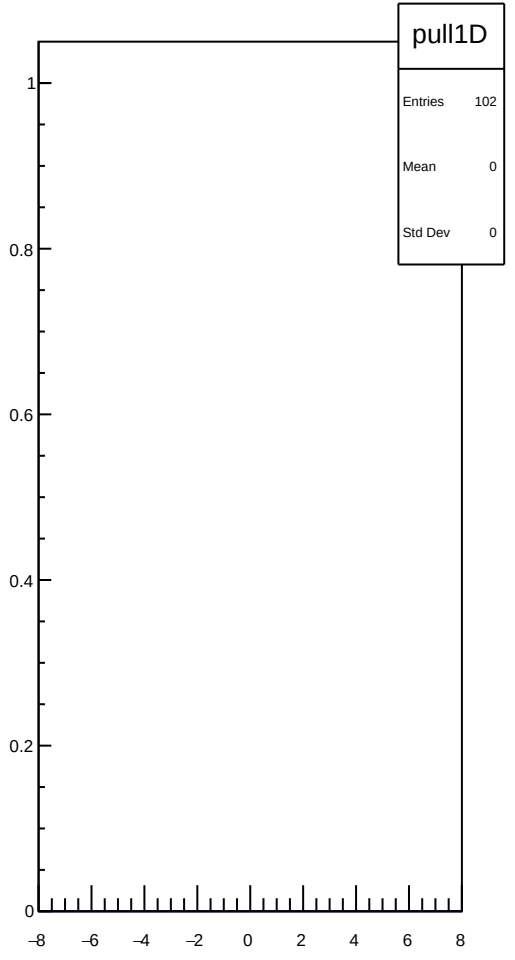

yield_cav4cQ_rms vs run
χ² / ndf 8.204e+04 / 101
p0 0.2181 ± 0.0001609
4.5
4
3.5
3
2.5
2
1.5
1
0.5

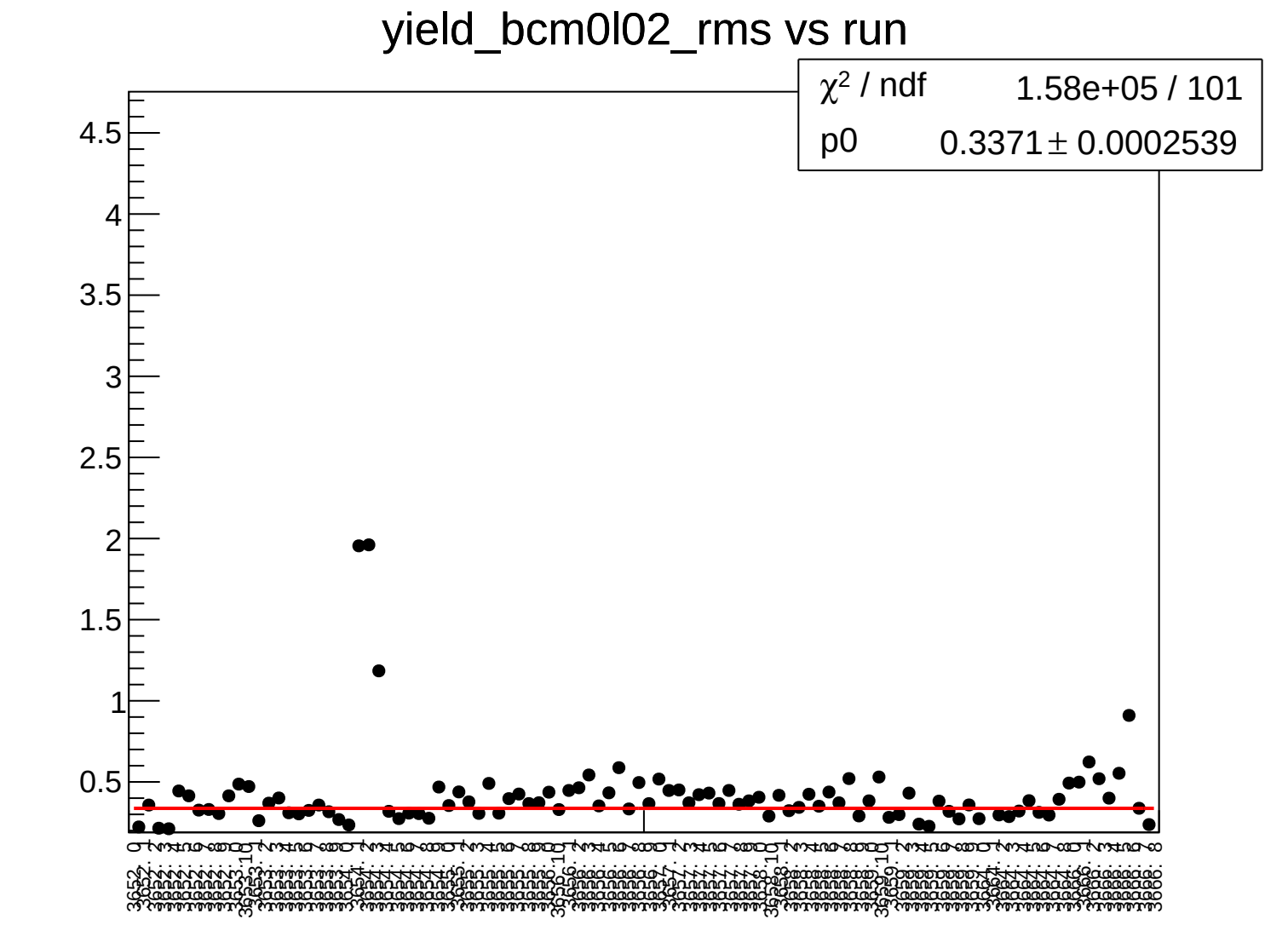

yield_cav4dQ_mean vs run
χ² / ndf 4.228e+05 / 101
p0 379 ± 7.165e−06
379.05
379.048
379.046
379.044
379.042
379.04
379.038
379.036
379.034
379.032
pull
Entries 102
Mean 5393
Std Dev 5342
150
100
50
0
−50
−100

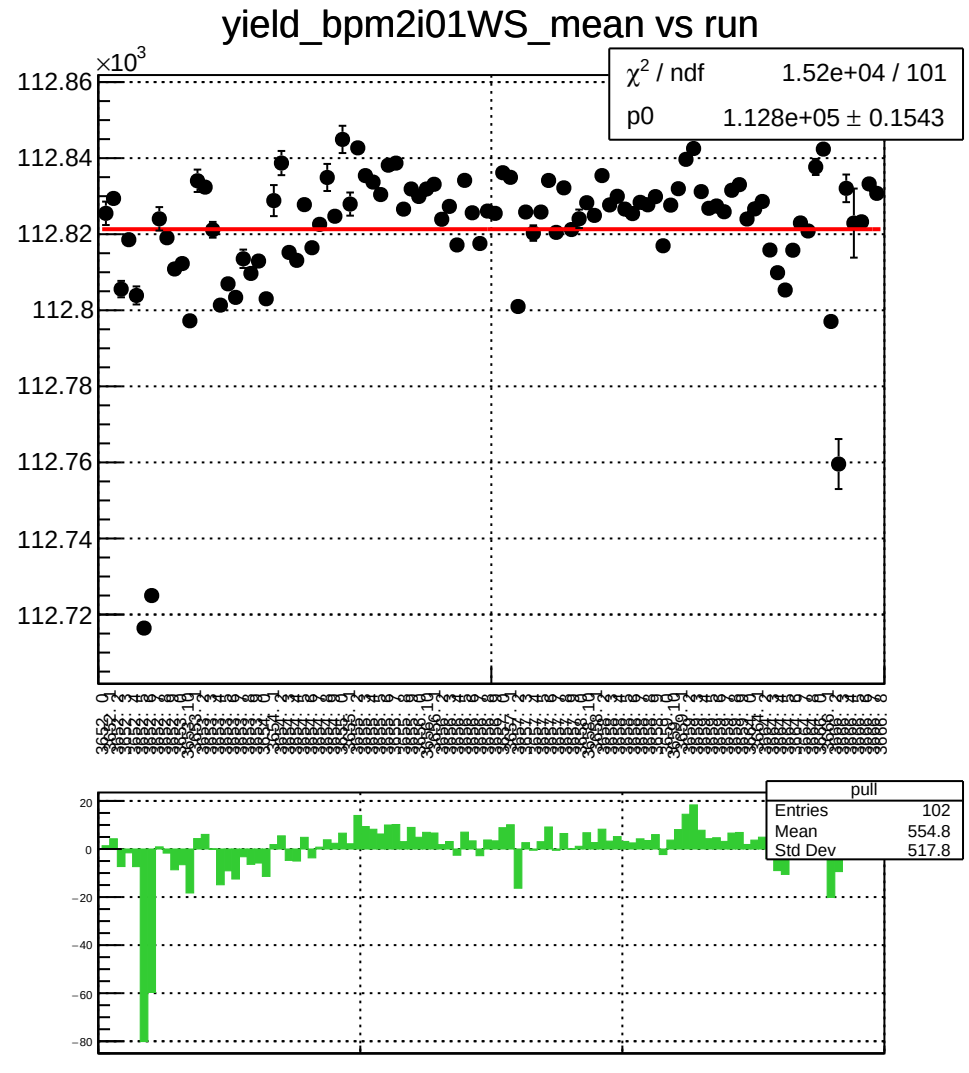

pull1D
Entries 102
Mean −1.454
Std Dev 6.142
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

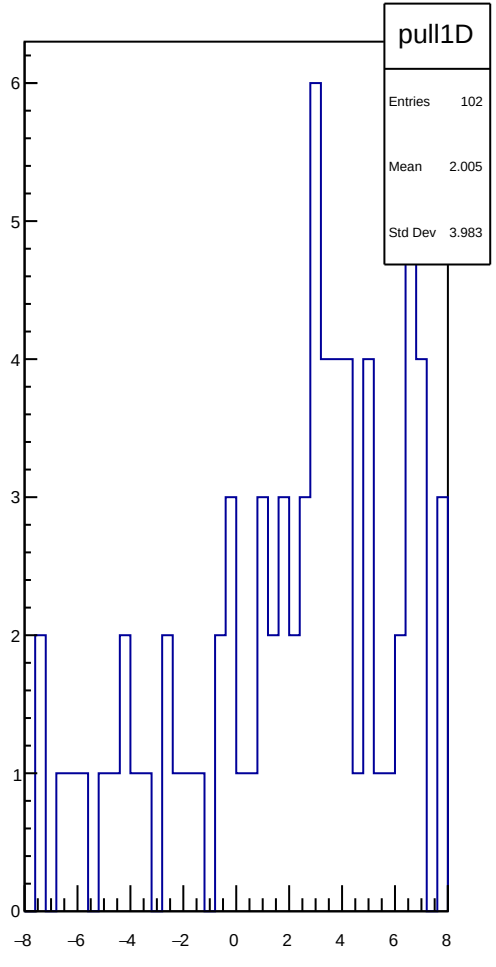

yield_cav4dQ_rms vs run
χ² / ndf 918.5 / 101
p0 0.007019 ± 5.066e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

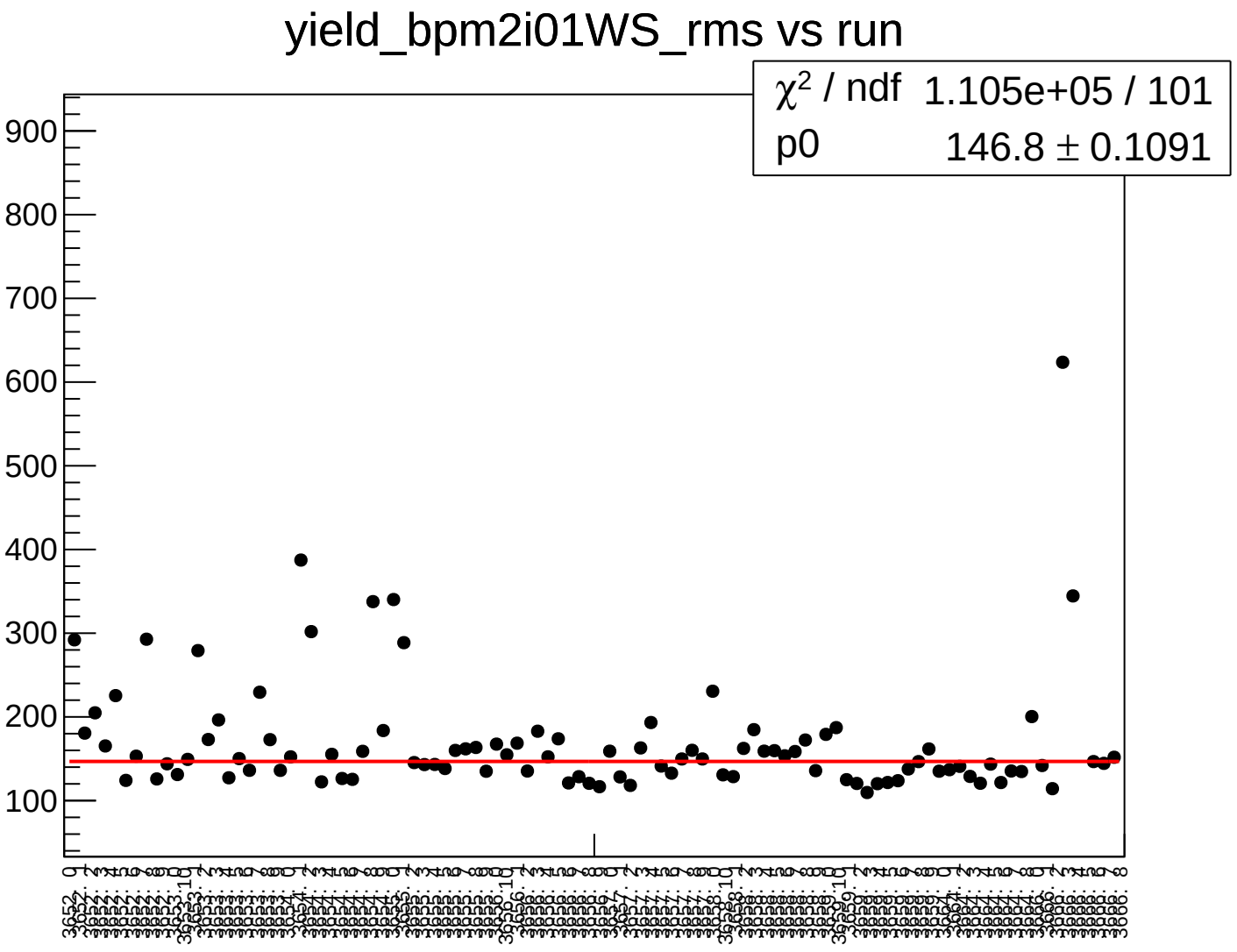

yield_bcm0l02_mean vs run
χ² / ndf 1.021e+08 / 101
p0 89.22 ± 0.0003591
94
92
90
88
86
84
82
pull
Entries 102
Mean 186.7
Std Dev 154
1000
500
0
−500
−1000
−1500
−2000
−2500

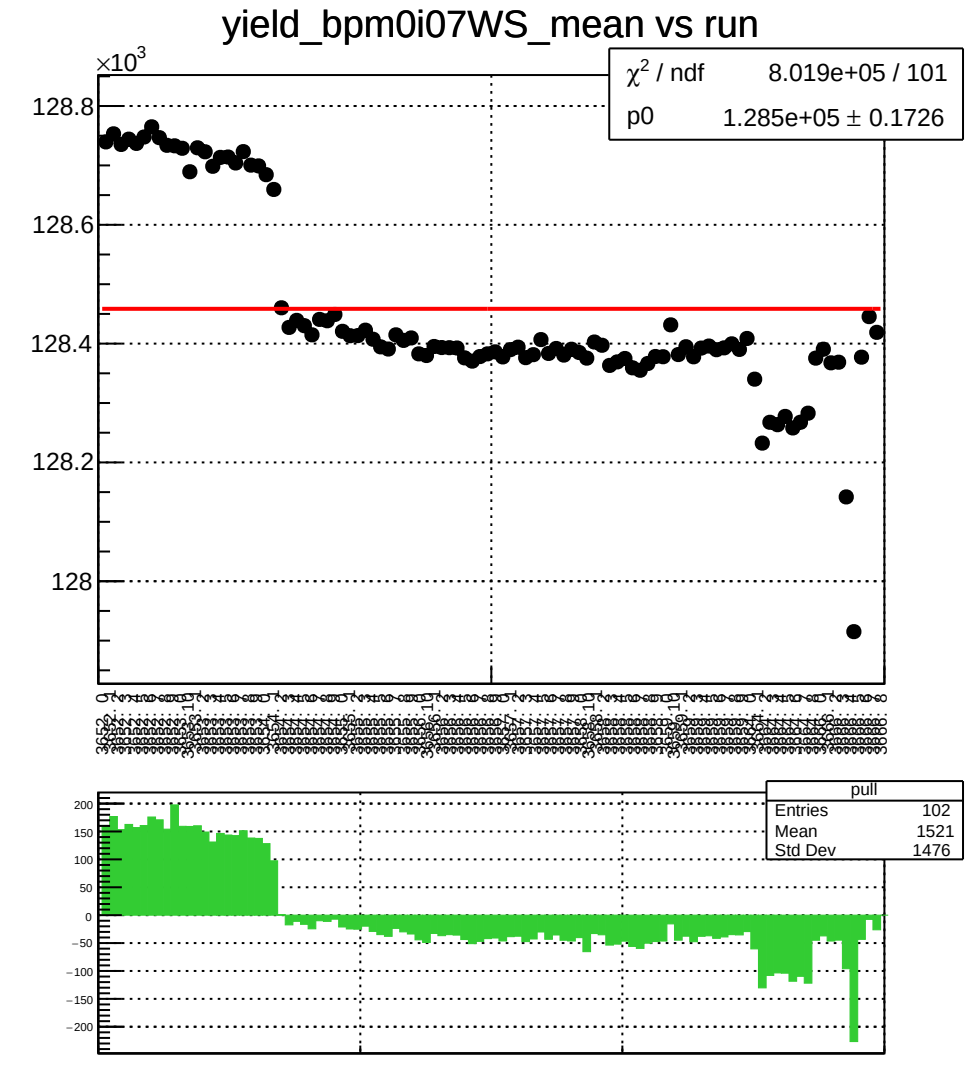

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

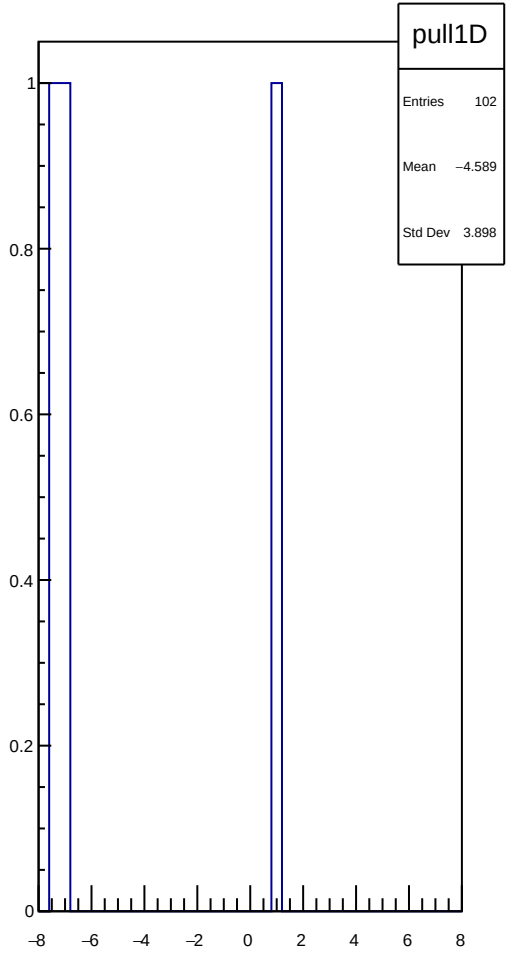

yield_bcm0l02_rms vs run
χ² / ndf 1.58e+05 / 101
p0 0.3371 ± 0.0002539
4.5
4
3.5
3
2.5
2
1.5
1
0.5

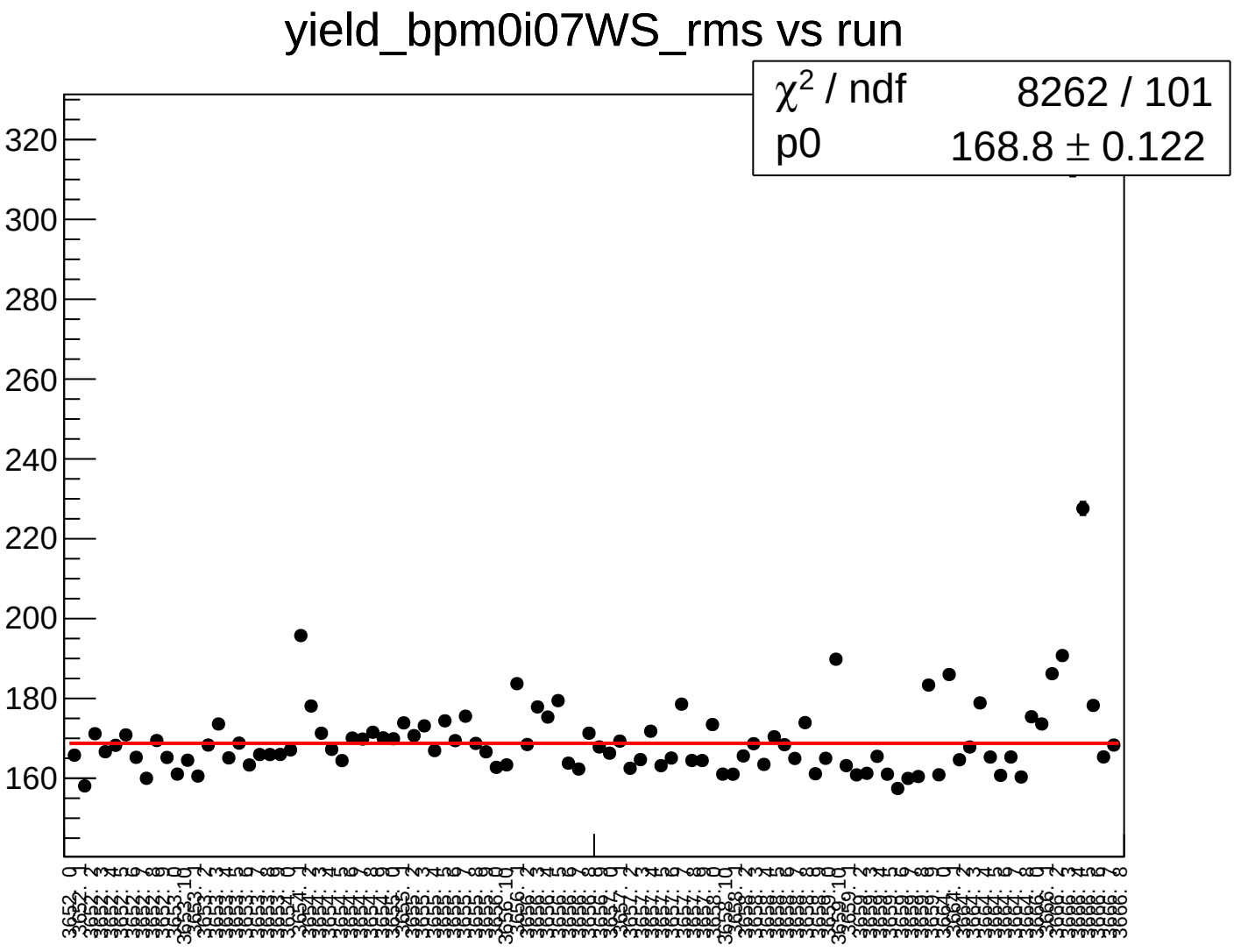

yield_bpm2i01WS_mean vs run
×10^3
112.86
112.84
112.82
112.8
112.78
112.76
112.74
112.72
χ² / ndf 1.52e+04 / 101
p0 1.128e+05 ± 0.1543
pull
Entries 102
Mean 554.8
Std Dev 517.8
20
0
−20
−40
−60
−80

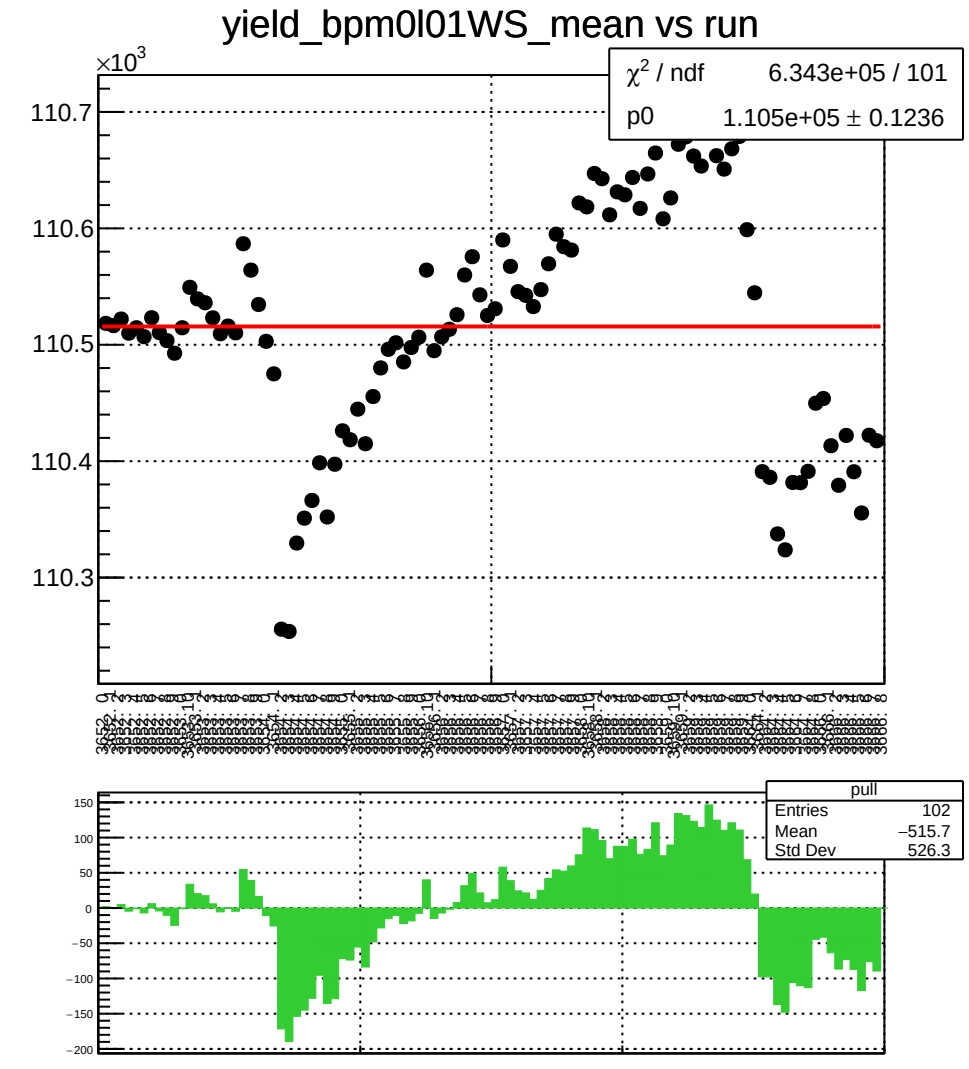

pull1D
Entries 102
Mean 2.005
Std Dev 3.983
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

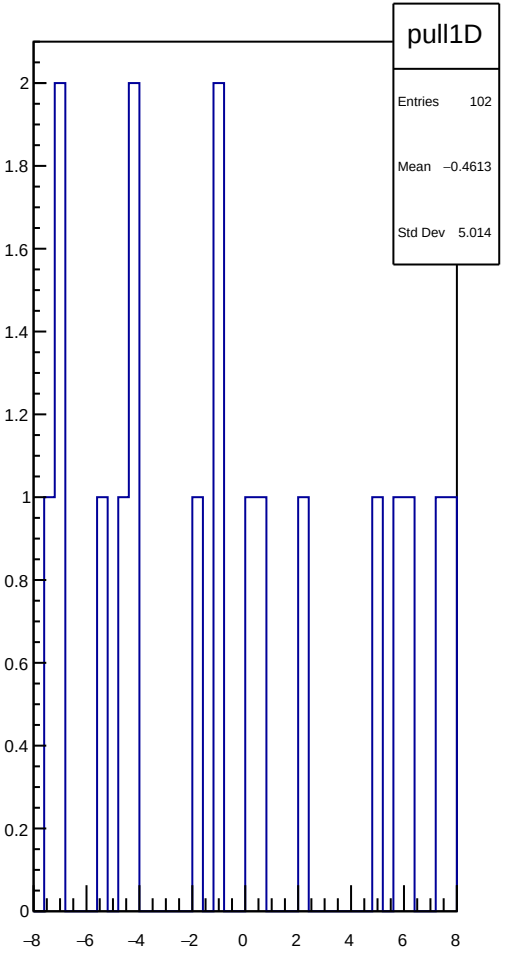

yield_bpm2i01WS_rms vs run
χ^2 / ndf 1.105e+05 / 101
p0 146.8 ± 0.1091
900
800
700
600
500
400
300
200
100

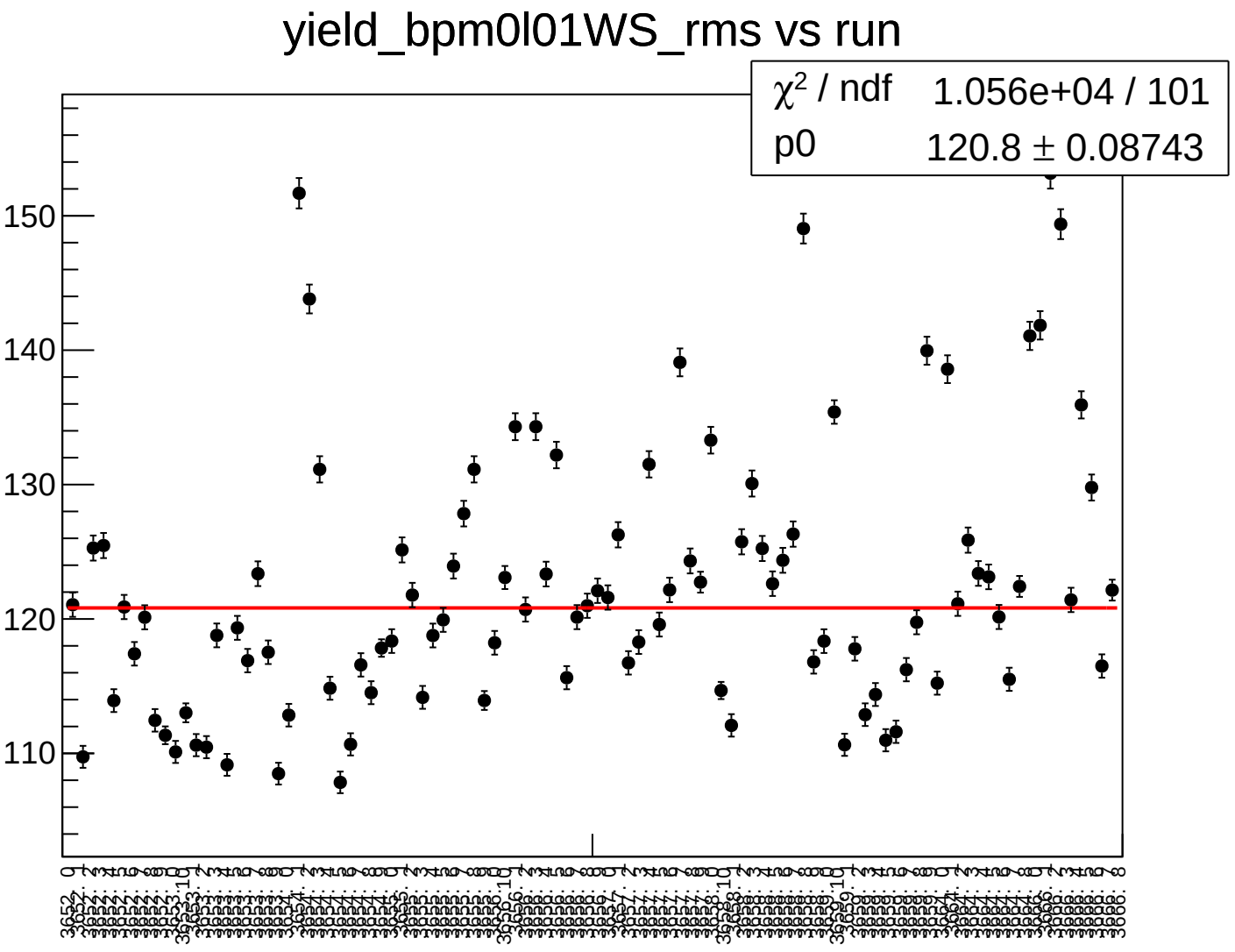

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 8.019e+05 / 101
p0 1.285e+05 ± 0.1726
128.8
128.6
128.4
128.2
128
pull
Entries 102
Mean 1521
Std Dev 1476
200
150
100
50
0
−50
−100
−150
−200

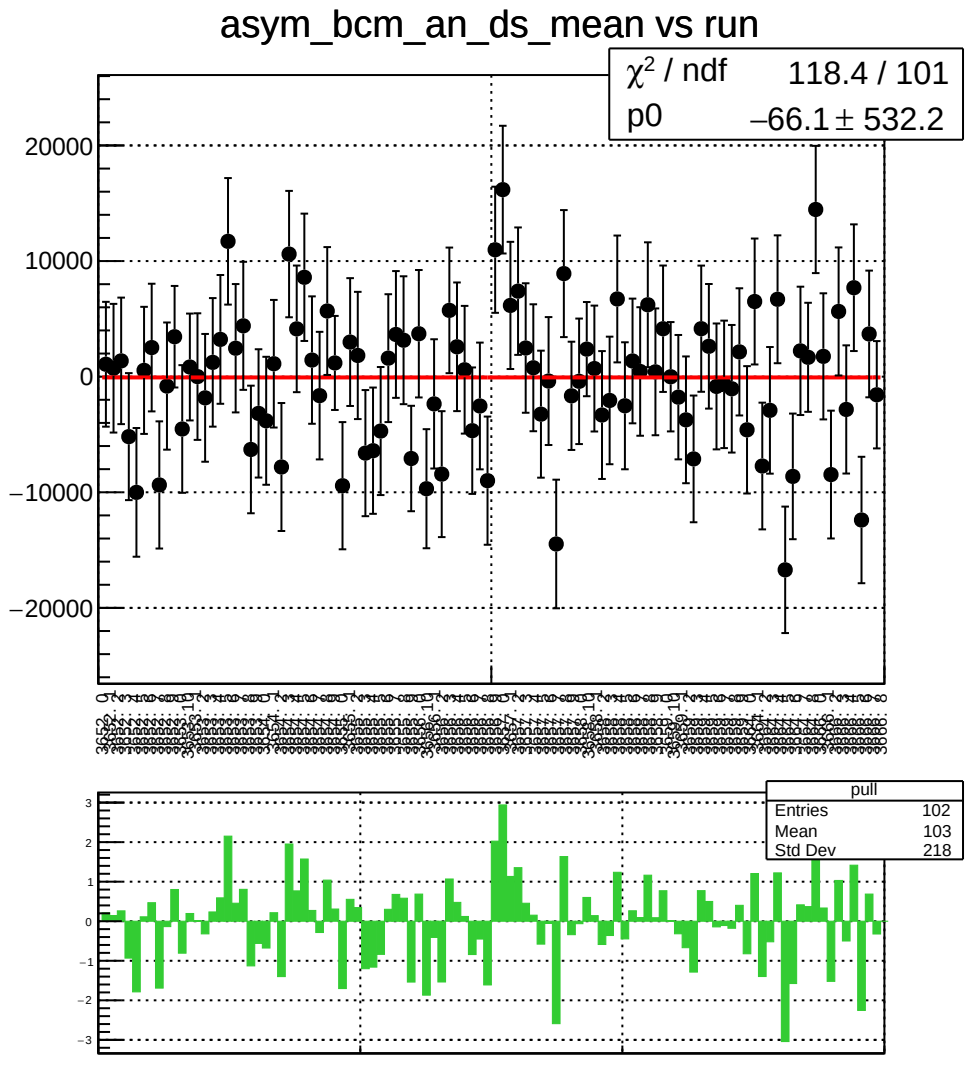

pull1D
Entries 102
Mean −4.589
Std Dev 3.898
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

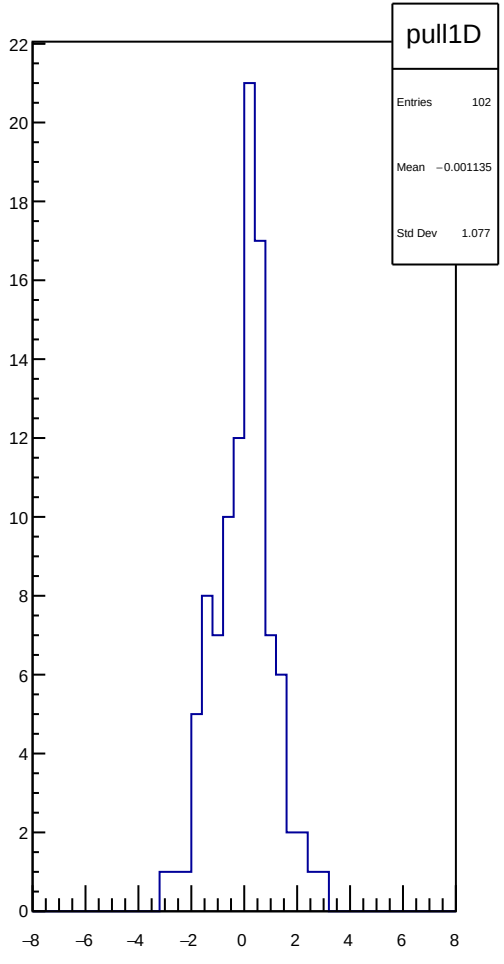

yield_bpm0i07WS_rms vs run
χ² / ndf 8262 / 101
p0 168.8 ± 0.122
320
300
280
260
240
220
200
180
160

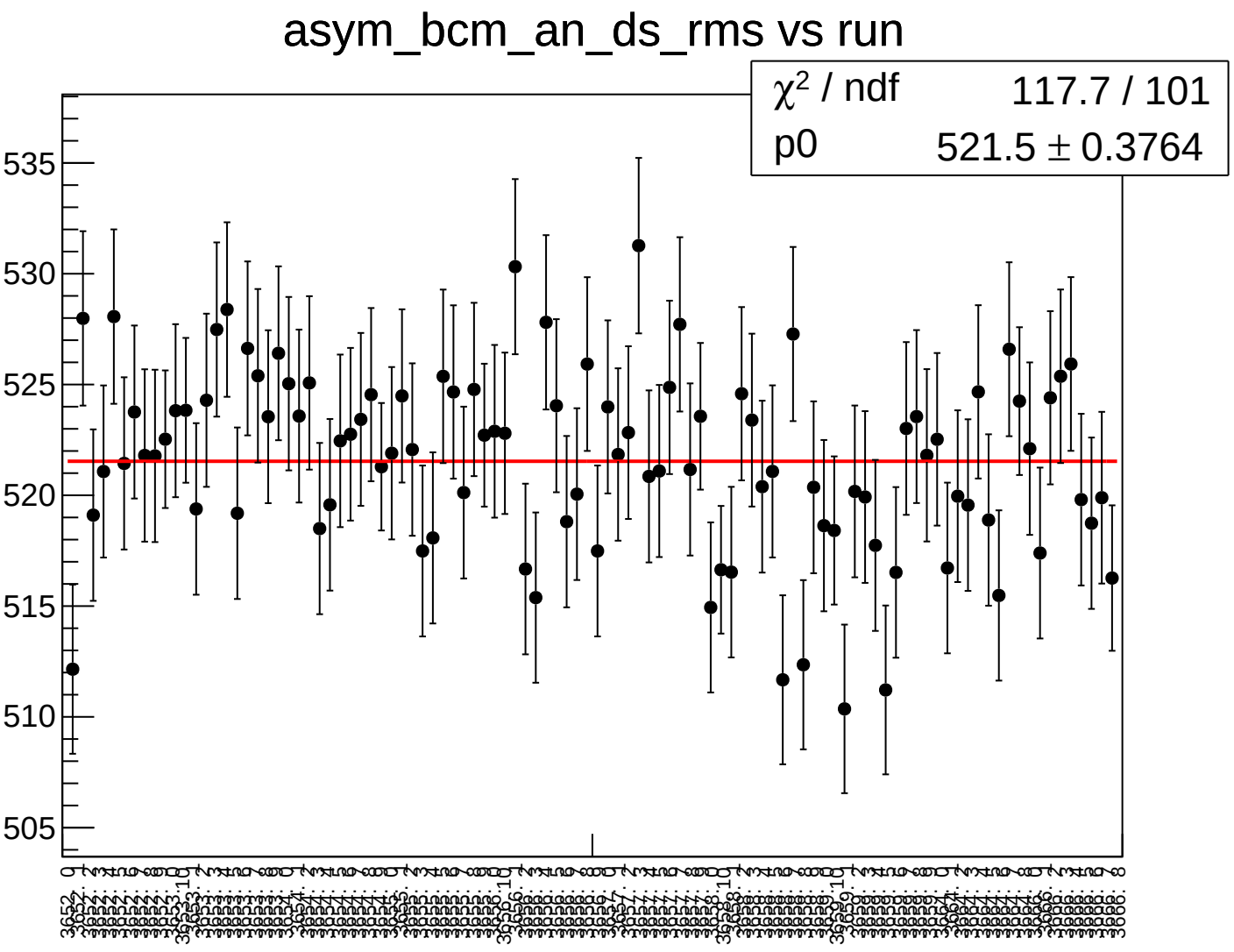

yield_bpm0l01WS_mean vs run
×10^3
χ^2 / ndf 6.343e+05 / 101
p0 1.105e+05 ± 0.1236
110.7
110.6
110.5
110.4
110.3
pull
Entries 102
Mean −515.7
Std Dev 526.3
150
100
50
0
−50
−100
−150
−200

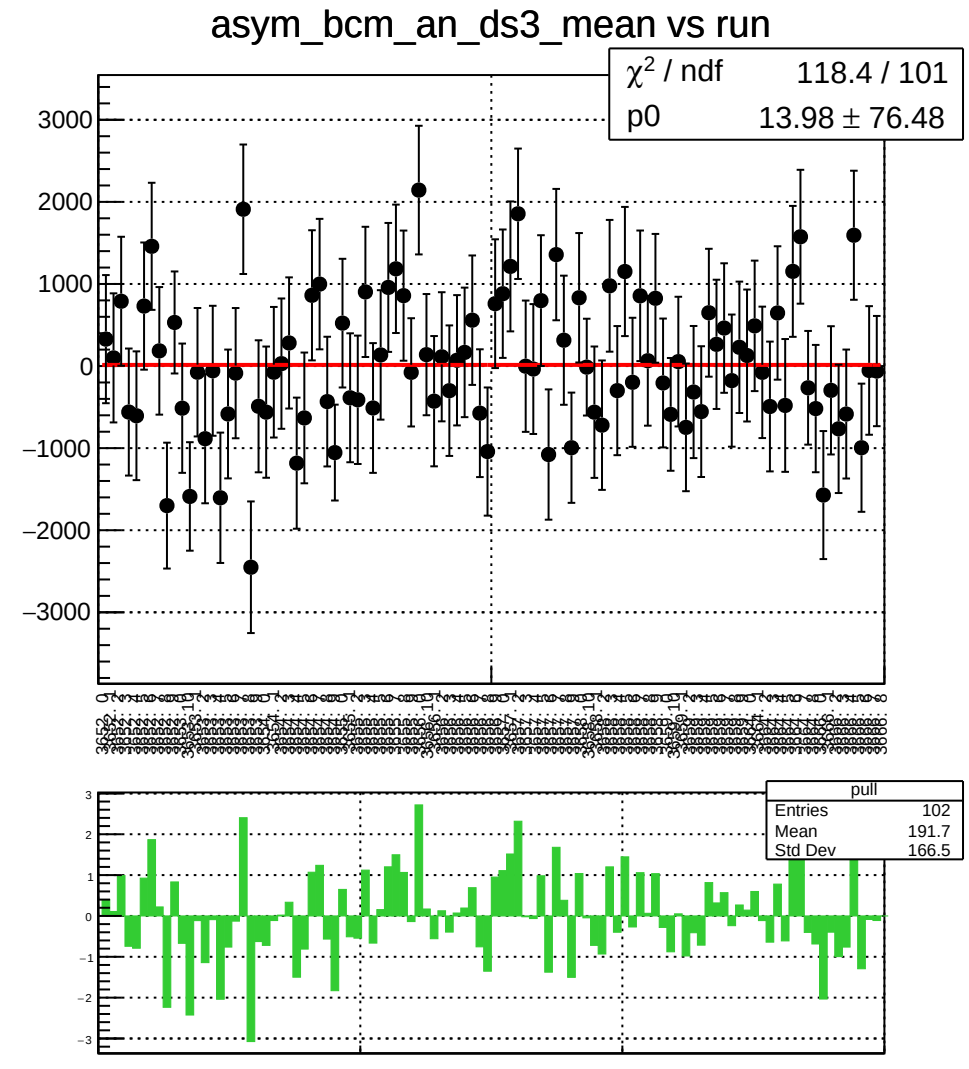

pull1D
Entries 102
Mean −0.4613
Std Dev 5.014
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

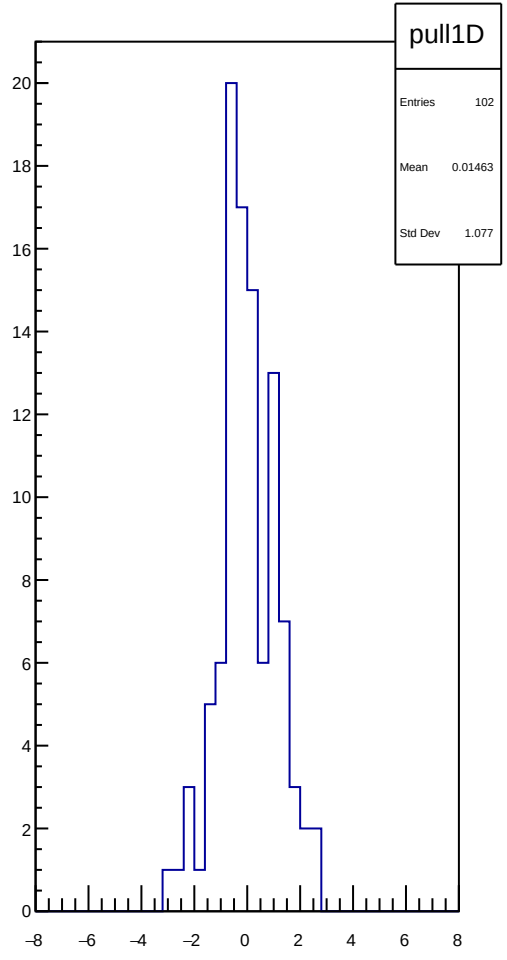

yield_bpm0l01WS_rms vs run
χ² / ndf 1.056e+04 / 101
p0 120.8 ± 0.08743
150
140
130
120
110

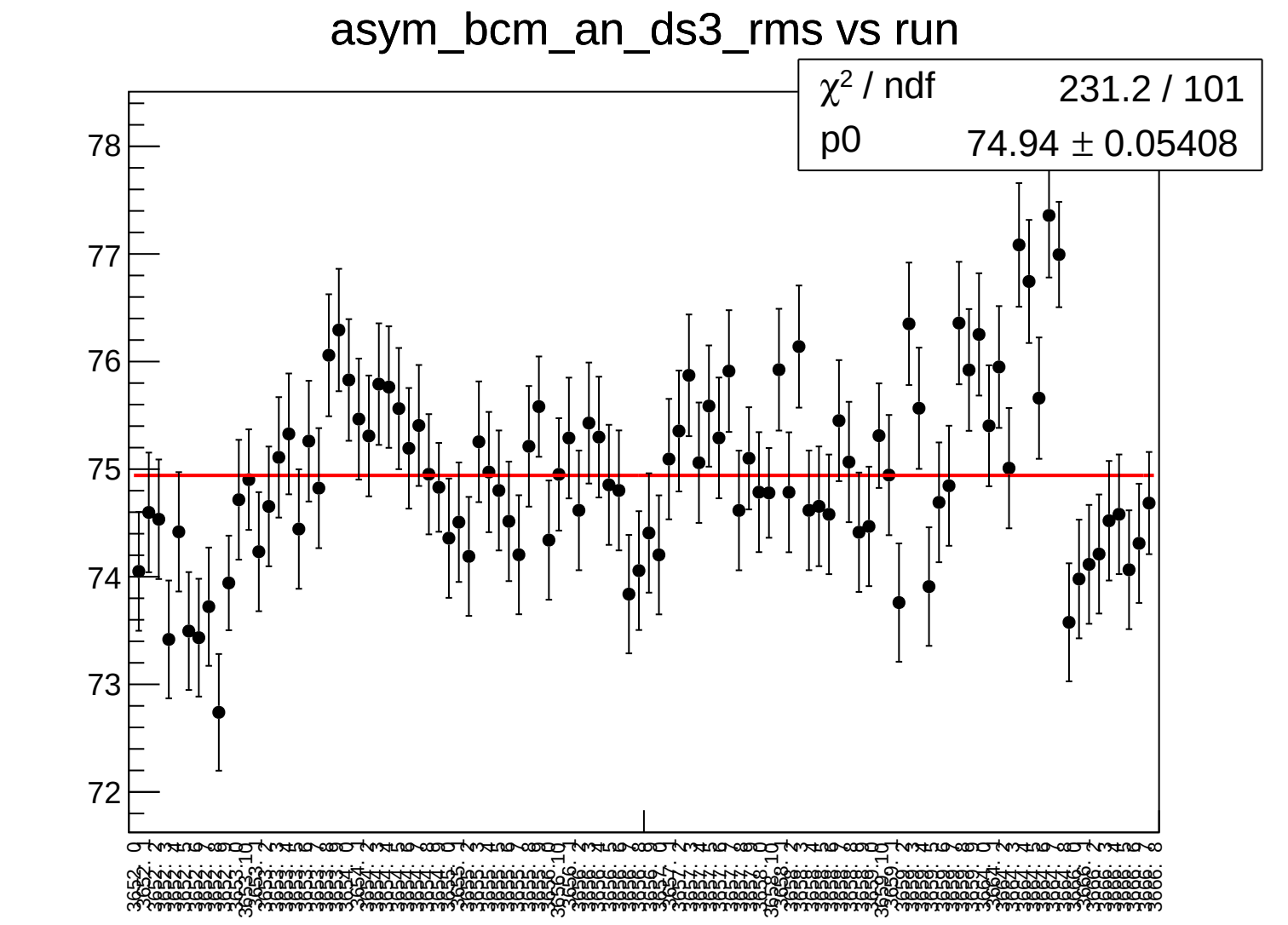

asym_bcm_an_ds_mean vs run
χ² / ndf 118.4 / 101
p0 −66.1 ± 532.2
20000
10000
0
−10000
−20000
pull
Entries 102
Mean 103
Std Dev 218
3
2
1
0
−1
−2
−3

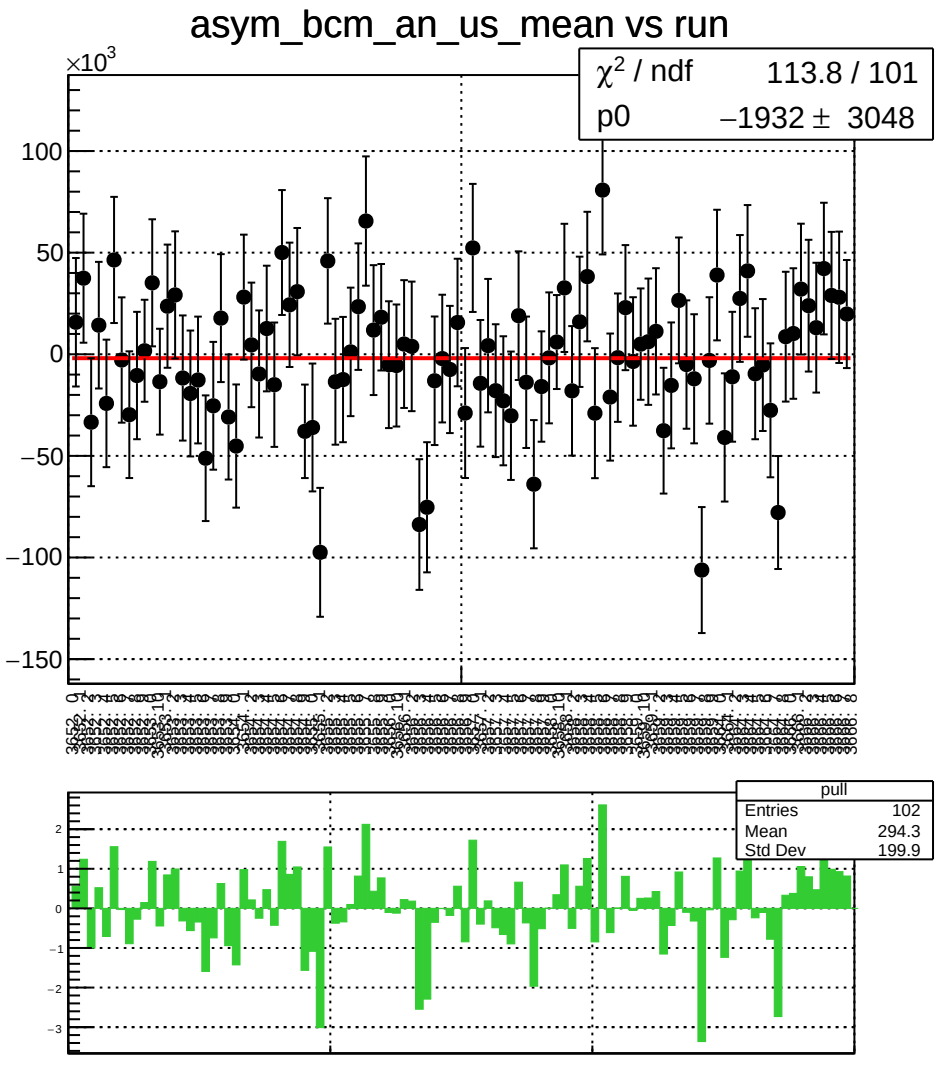

pull1D
Entries 102
Mean −0.001135
Std Dev 1.077
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

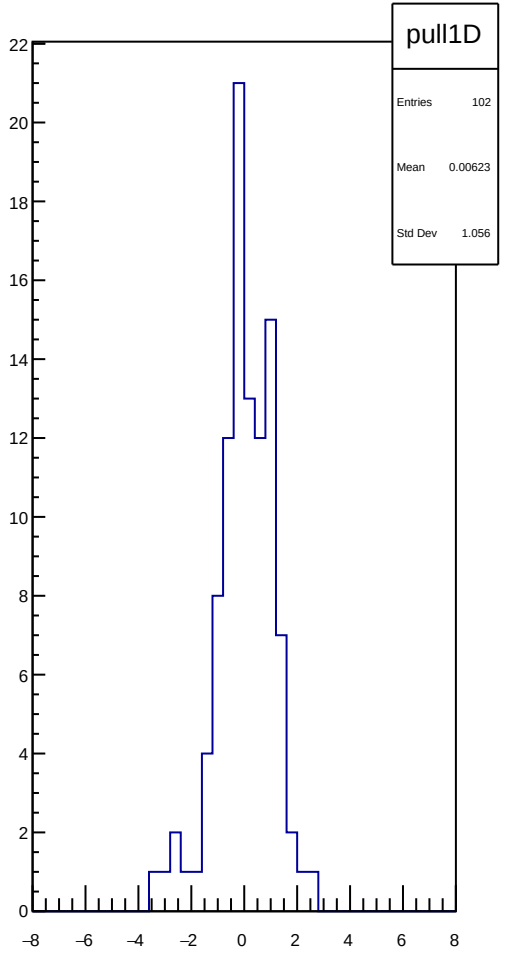

asym_bcm_an_ds_rms vs run
χ² / ndf 117.7 / 101
p0 521.5 ± 0.3764
535
530
525
520
515
510
505

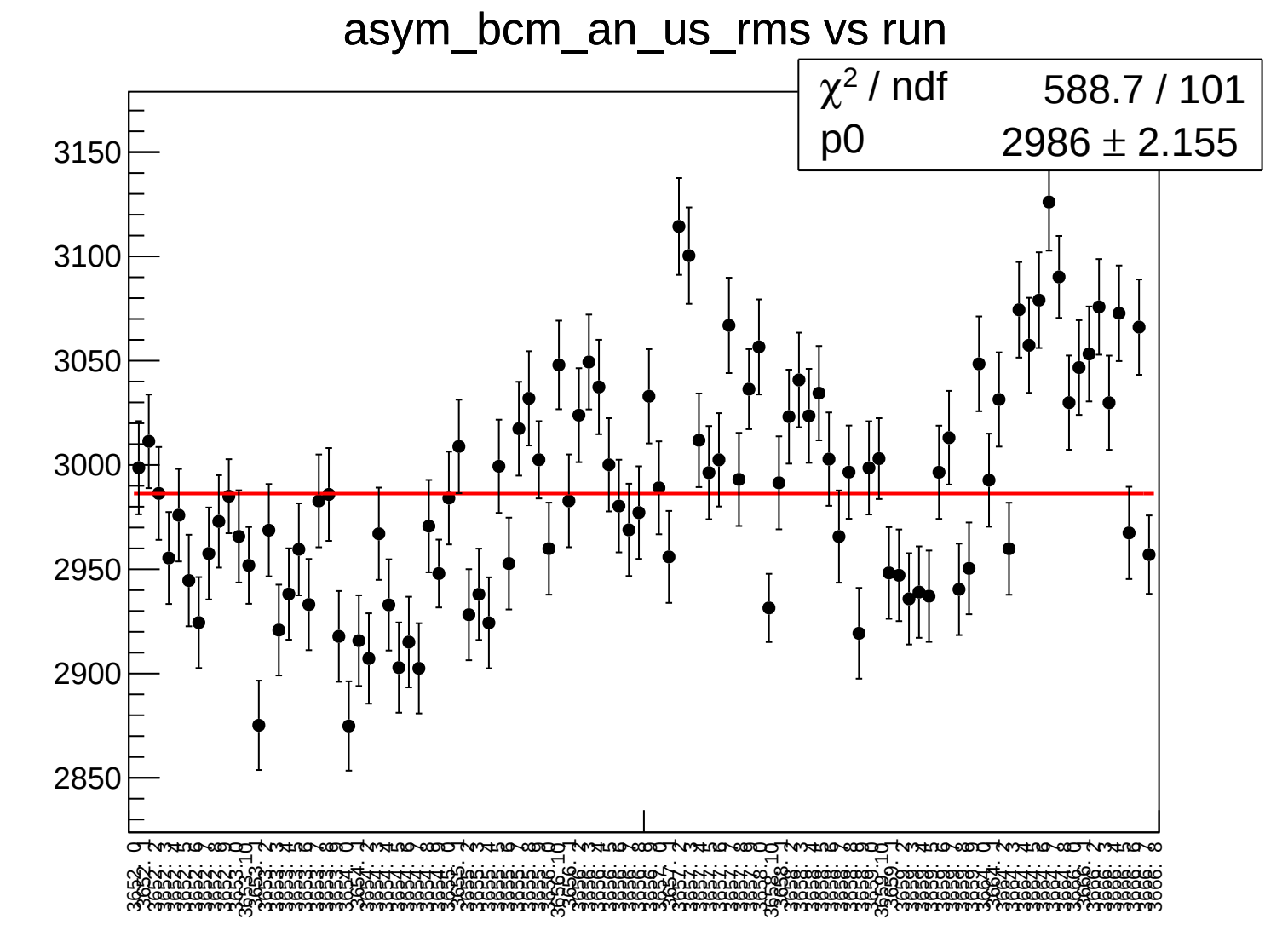

asym_bcm_an_ds3_mean vs run
χ² / ndf 118.4 / 101
p0 13.98 ± 76.48
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 102
Mean 191.7
Std Dev 166.5
3
2
1
0
−1
−2
−3

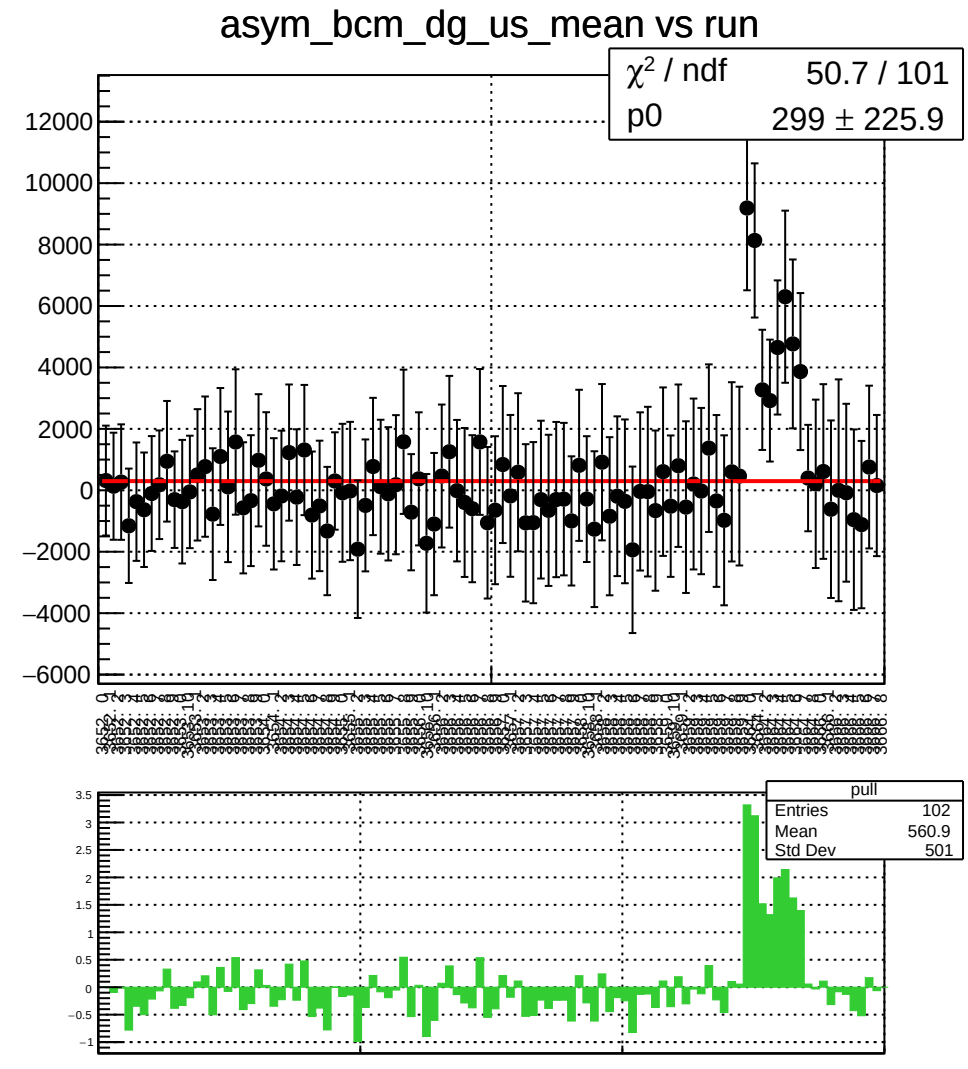

pull1D
Entries 102
Mean 0.01463
Std Dev 1.077
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

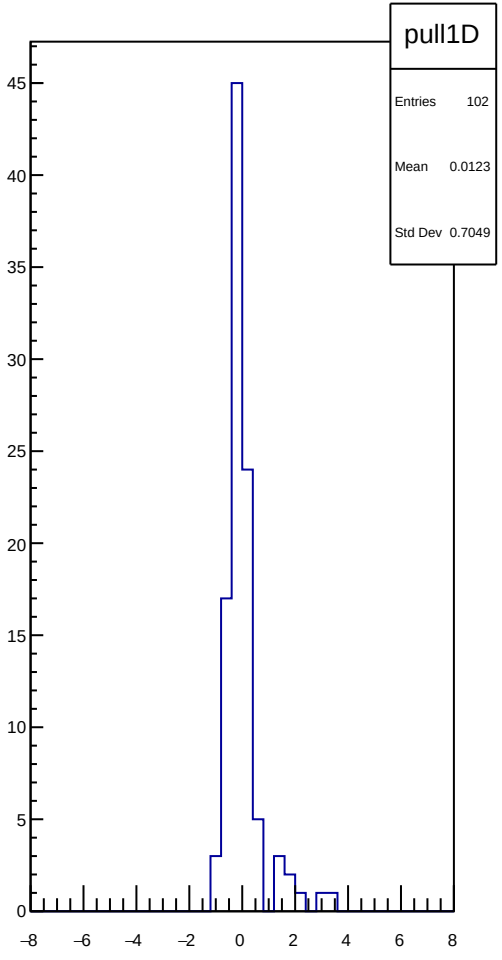

asym_bcm_an_ds3_rms vs run
χ² / ndf 231.2 / 101
p0 74.94 ± 0.05408
78
77
76
75
74
73
72

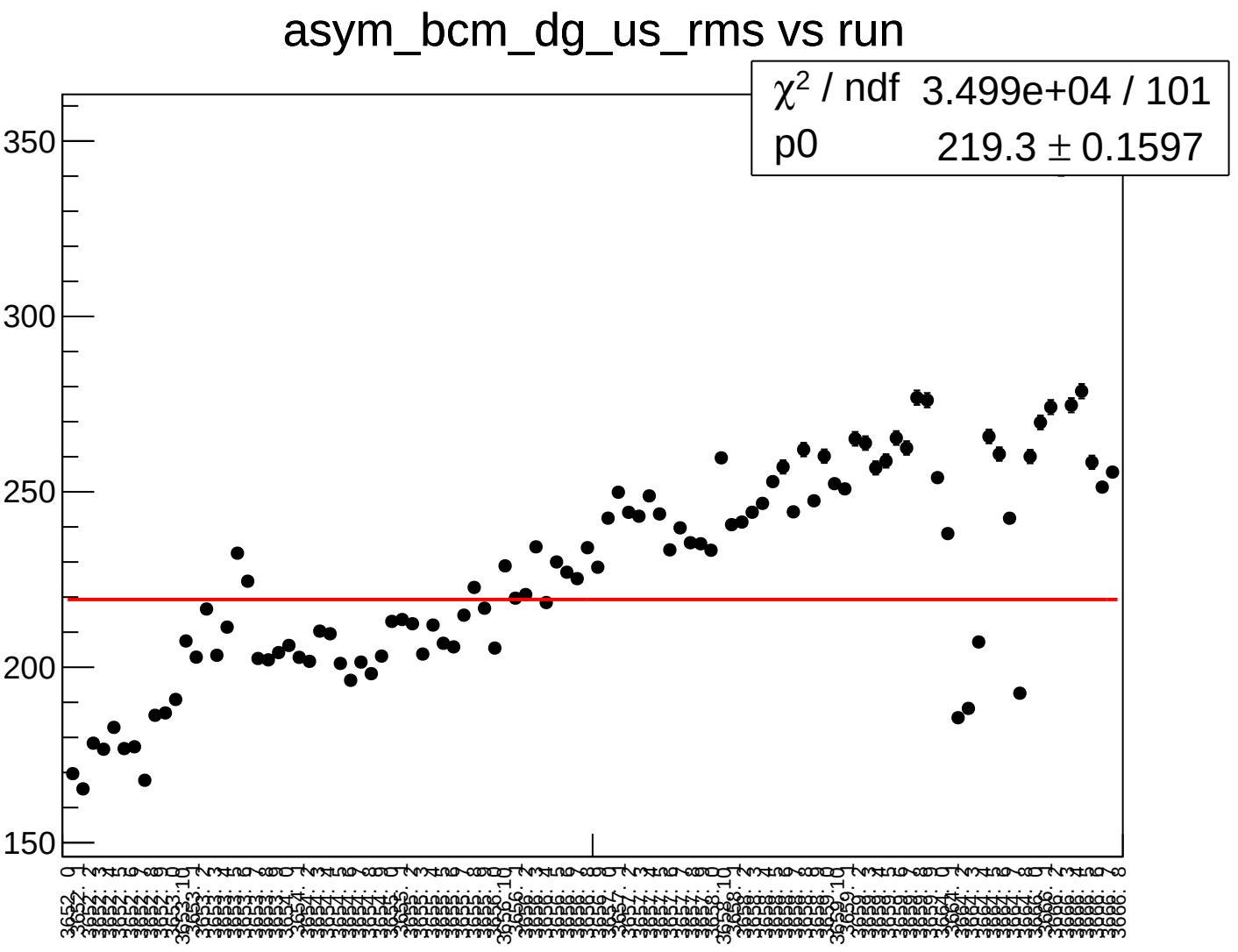

asym_bcm_an_us_mean vs run
×10^3
χ^2 / ndf 113.8 / 101
p0 −1932 ± 3048
100
50
0
−50
−100
−150
pull
Entries 102
Mean 294.3
Std Dev 199.9
2
1
0
−1
−2
−3

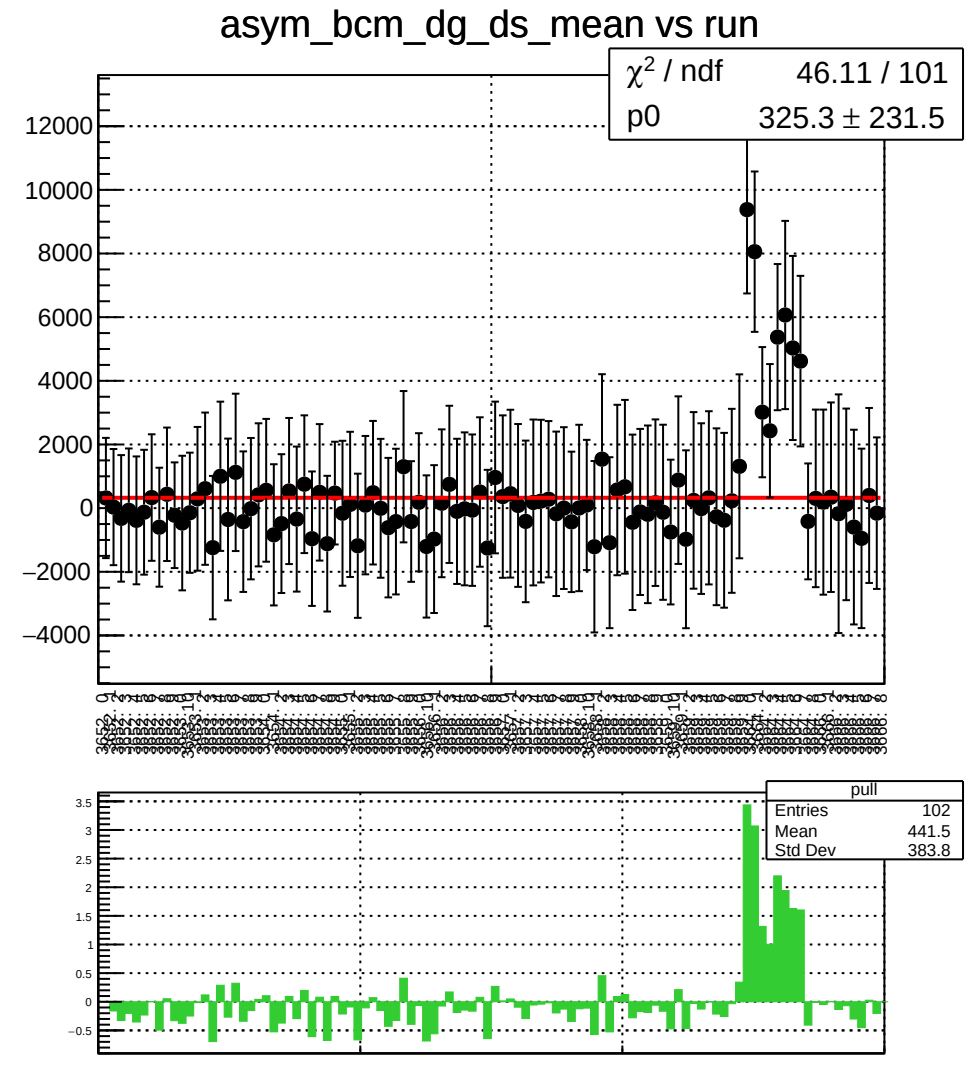

pull1D
Entries 102
Mean 0.00623
Std Dev 1.056
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

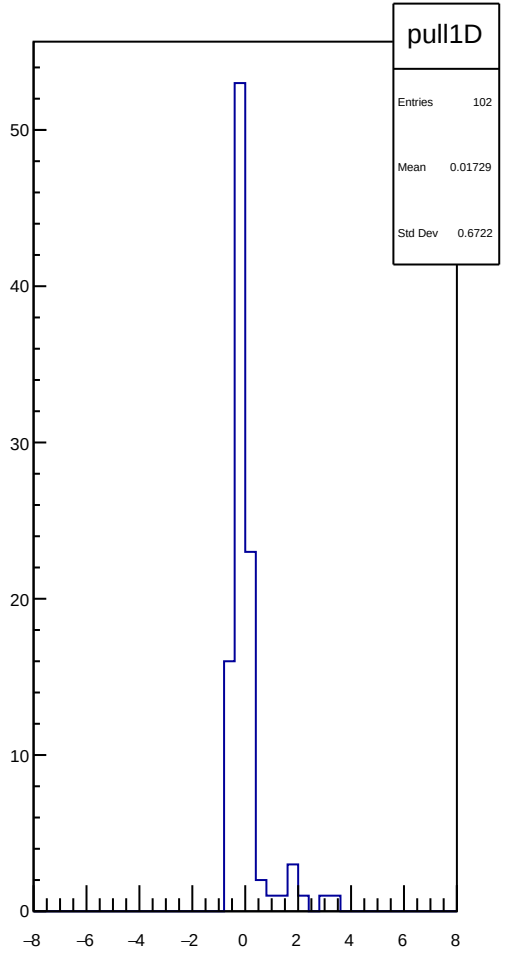

asym_bcm_an_us_rms vs run
χ^2 / ndf 588.7 / 101
p0 2986 ± 2.155
3150
3100
3050
3000
2950
2900
2850

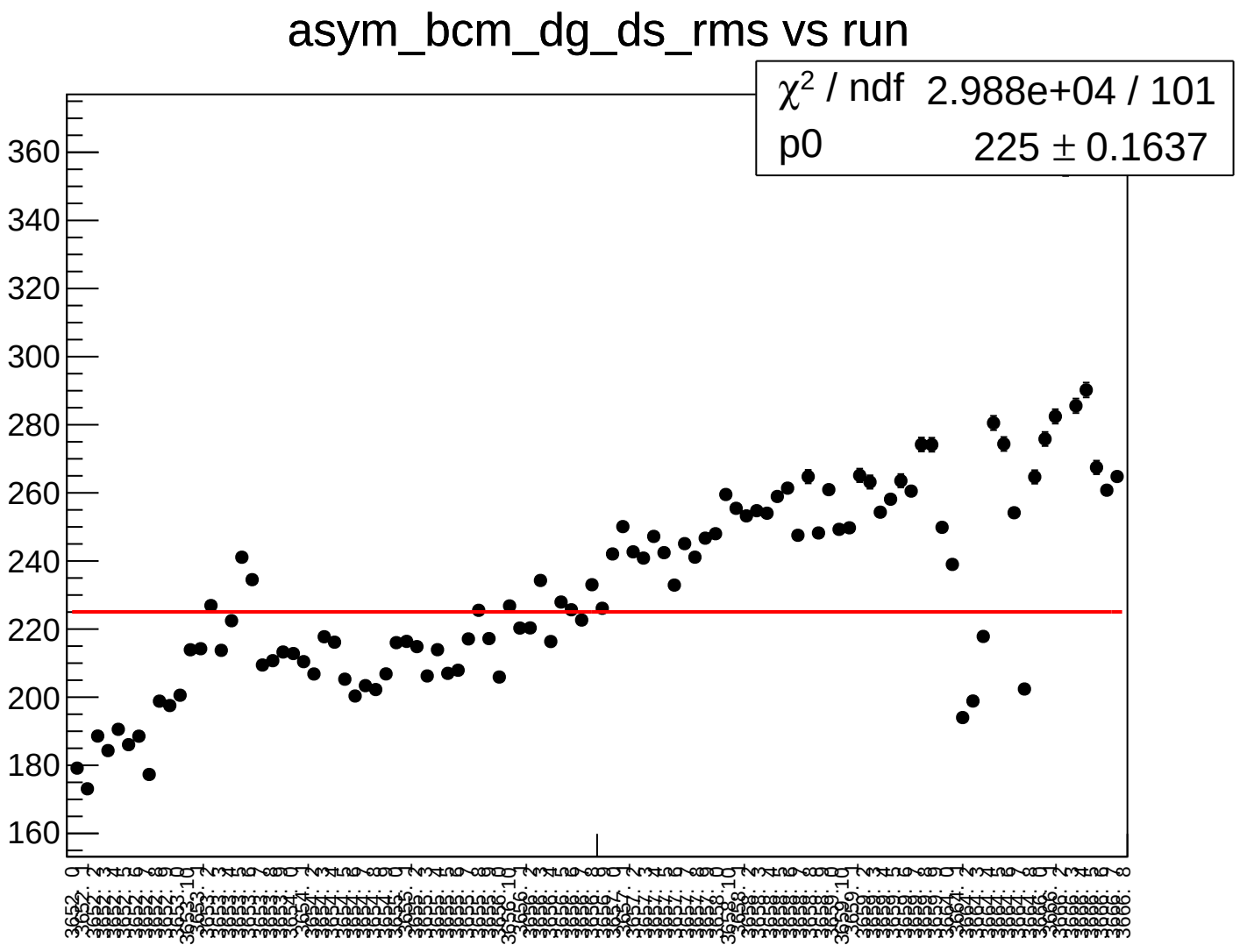

asym_bcm_dg_us_mean vs run
χ² / ndf 50.7 / 101
p0 299 ± 225.9
pull
Entries 102
Mean 560.9
Std Dev 501

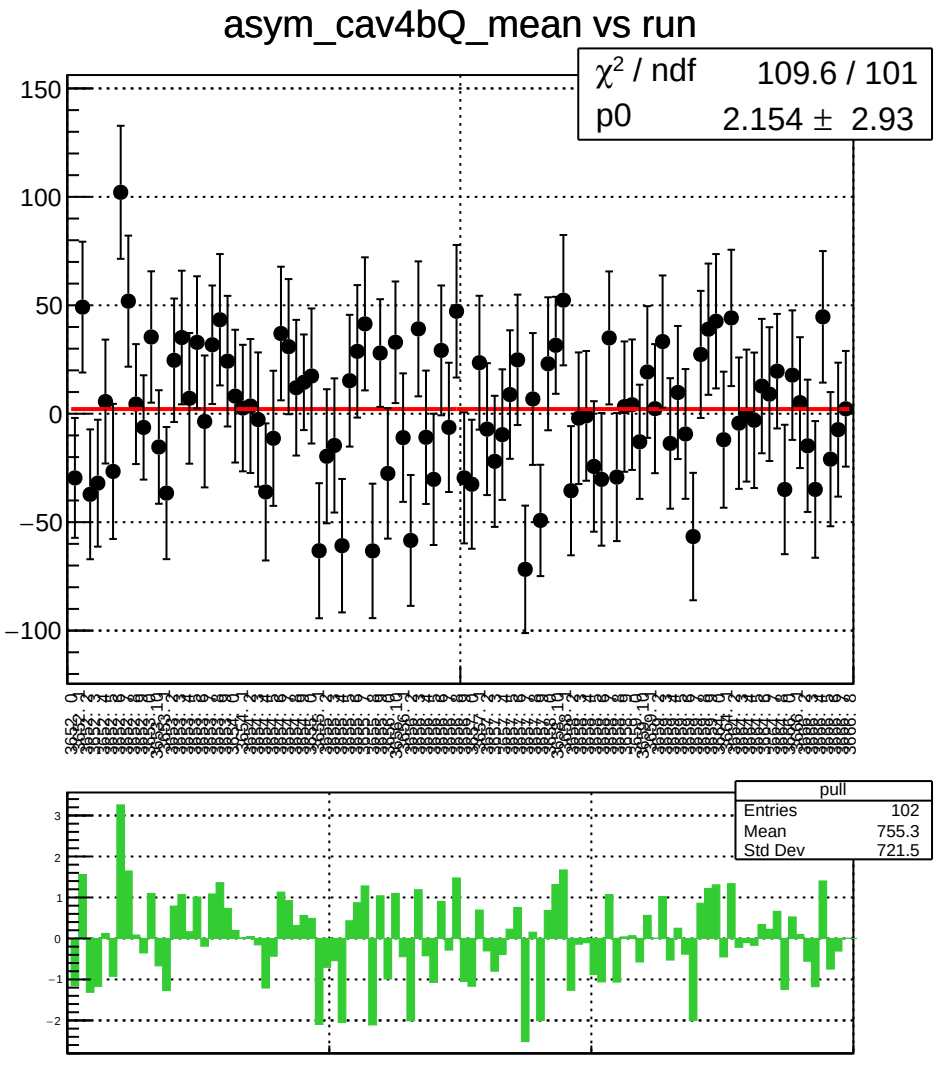

pull1D
Entries 102
Mean 0.0123
Std Dev 0.7049

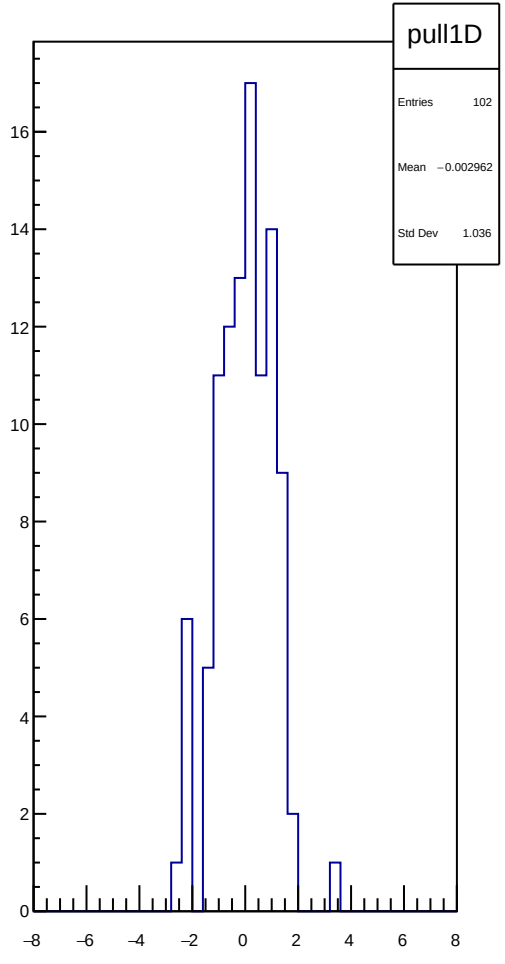

asym_bcm_dg_us_rms vs run
χ^2 / ndf 3.499e+04 / 101
p0 219.3 ± 0.1597
350
300
250
200
150

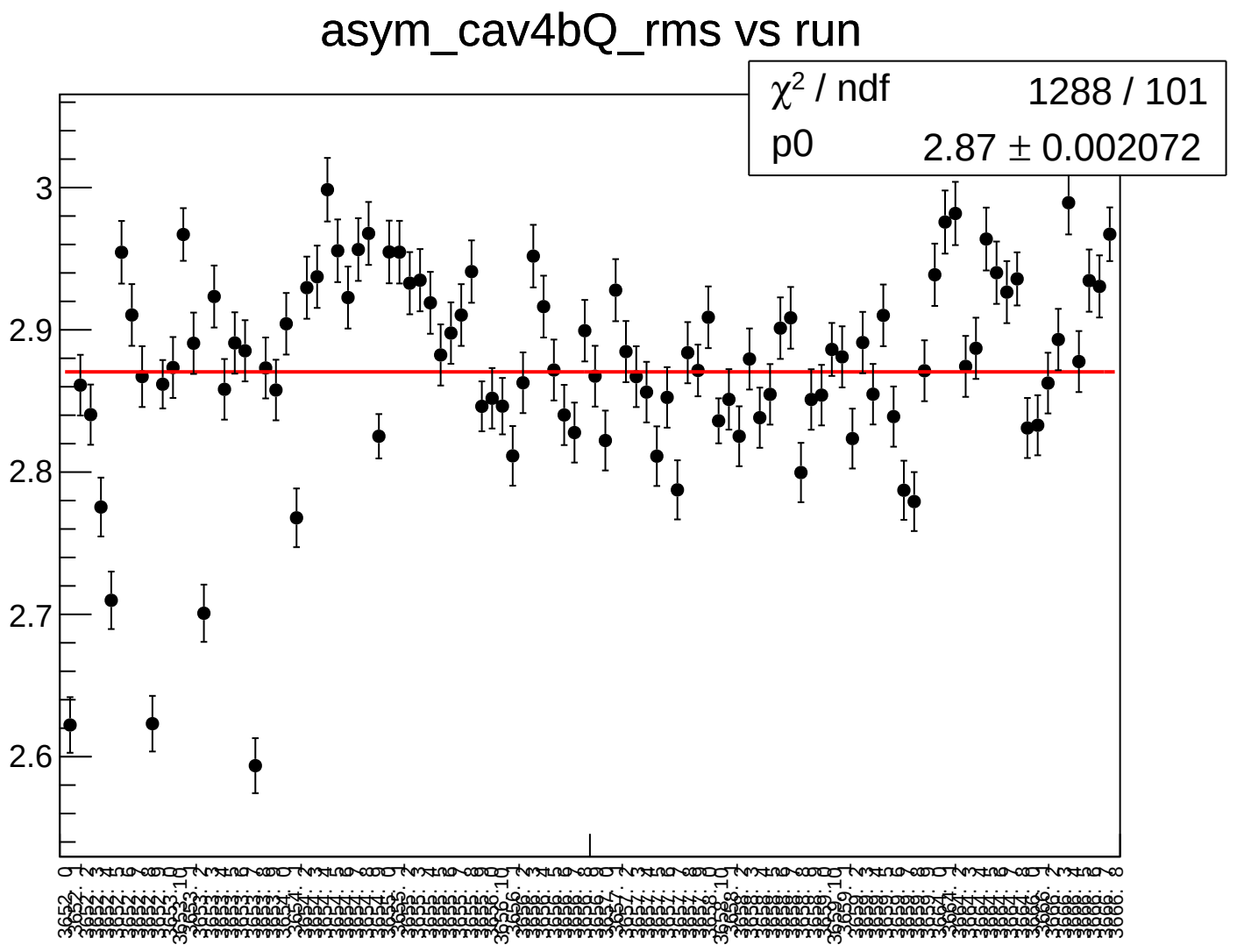

asym_bcm_dg_ds_mean vs run
χ² / ndf 46.11 / 101
p0 325.3 ± 231.5
12000
10000
8000
6000
4000
2000
0
−2000
−4000
pull
Entries 102
Mean 441.5
Std Dev 383.8
3.5
3
2.5
2
1.5
1
0.5
0
−0.5

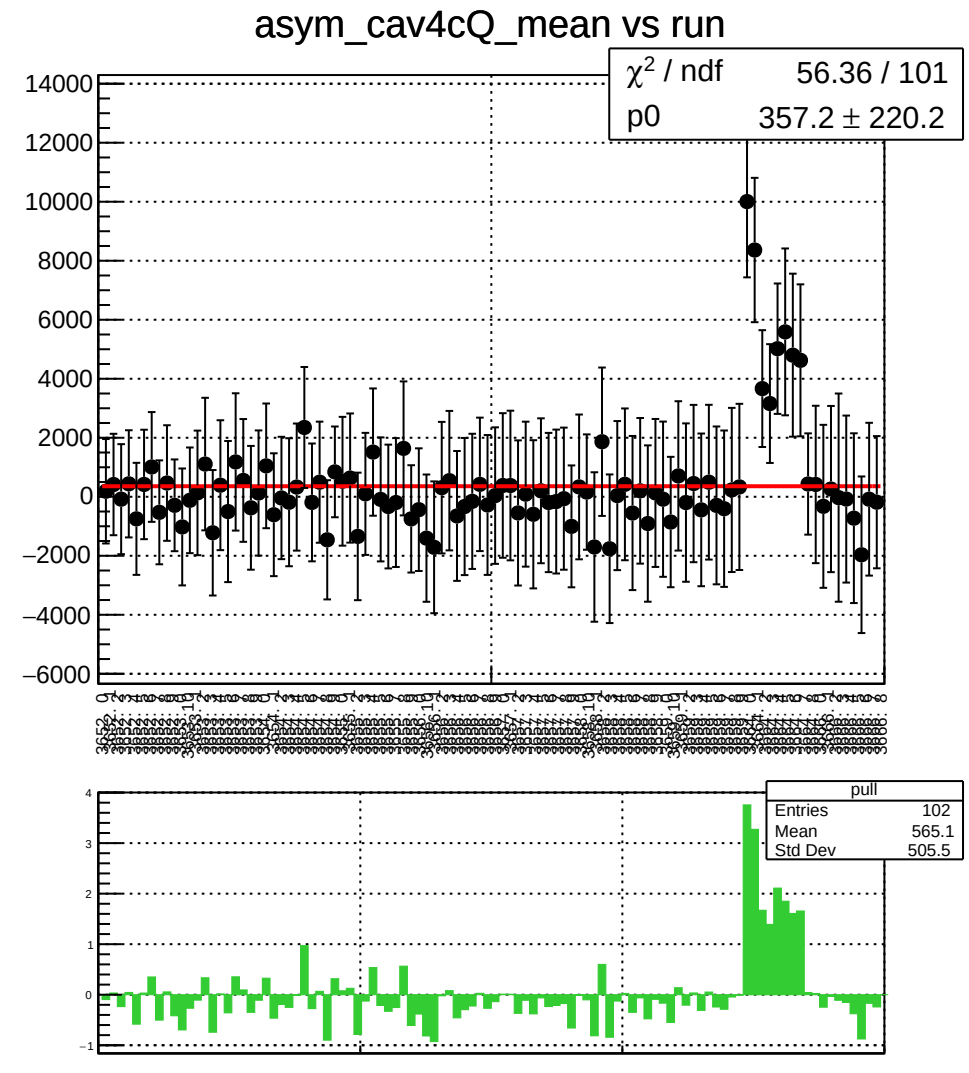

pull1D
Entries 102
Mean 0.01729
Std Dev 0.6722
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

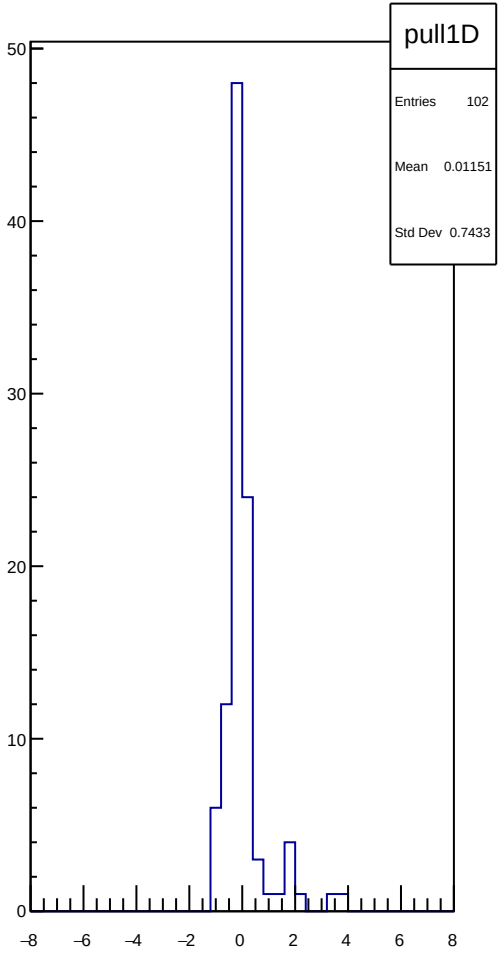

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2.988e+04 / 101
p0 225 ± 0.1637
360
340
320
300
280
260
240
220
200
180
160

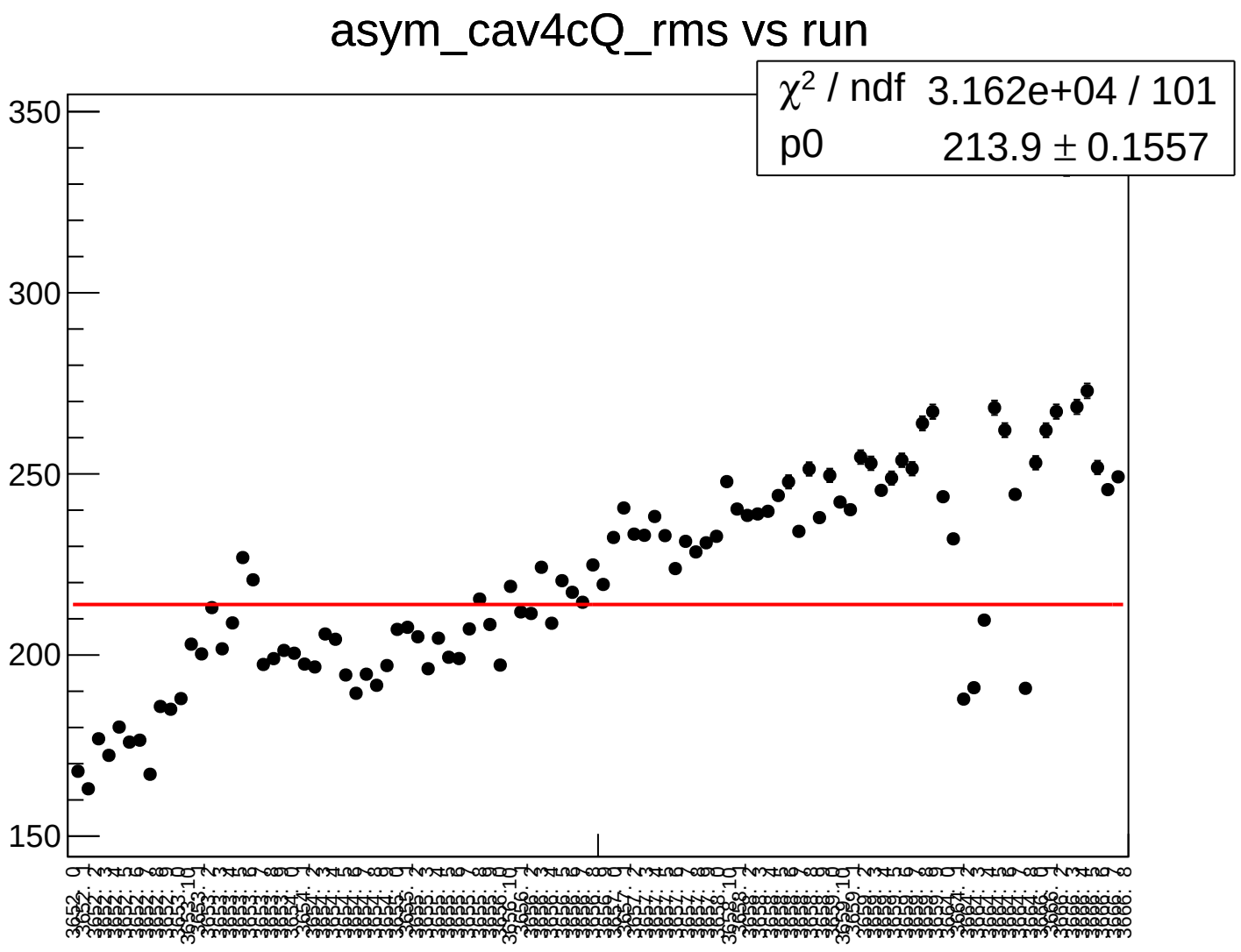

asym_cav4bQ_mean vs run
χ² / ndf 109.6 / 101
p0 2.154 ± 2.93
150
100
50
0
−50
−100
pull
Entries 102
Mean 755.3
Std Dev 721.5
3
2
1
0
−1
−2

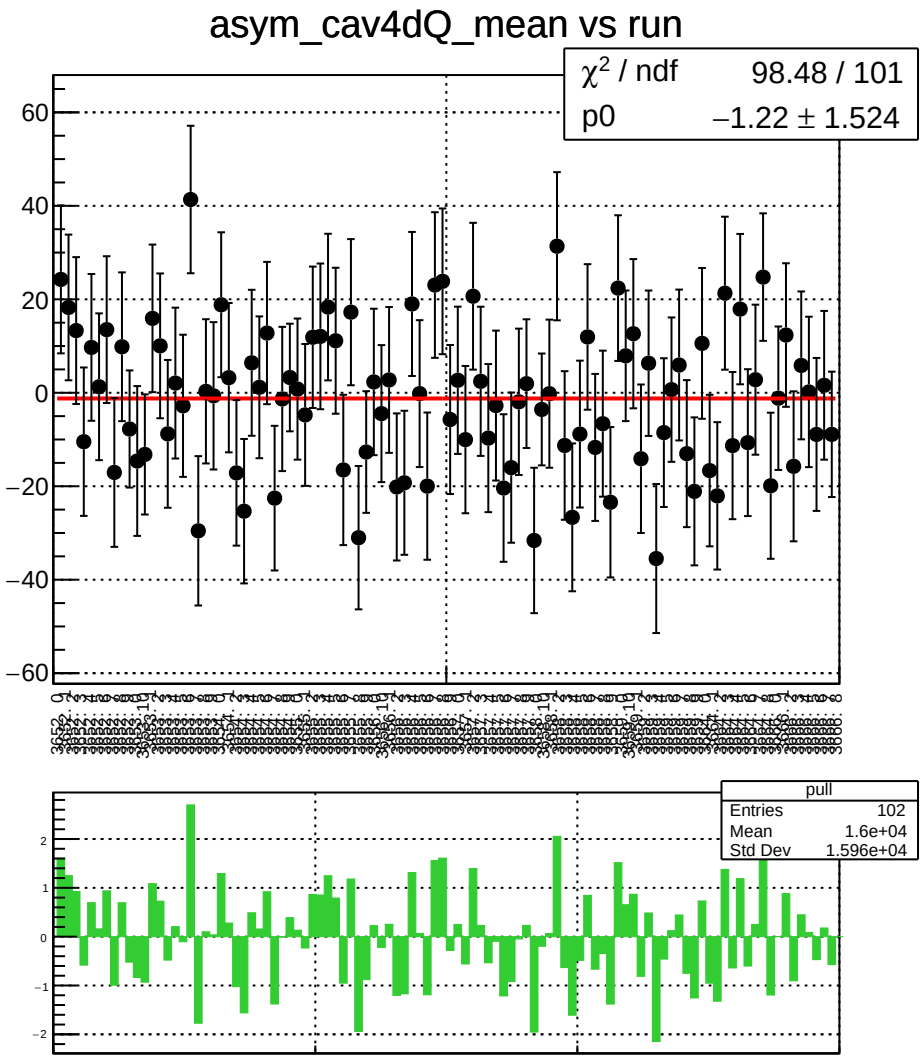

pull1D
Entries 102
Mean −0.002962
Std Dev 1.036
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

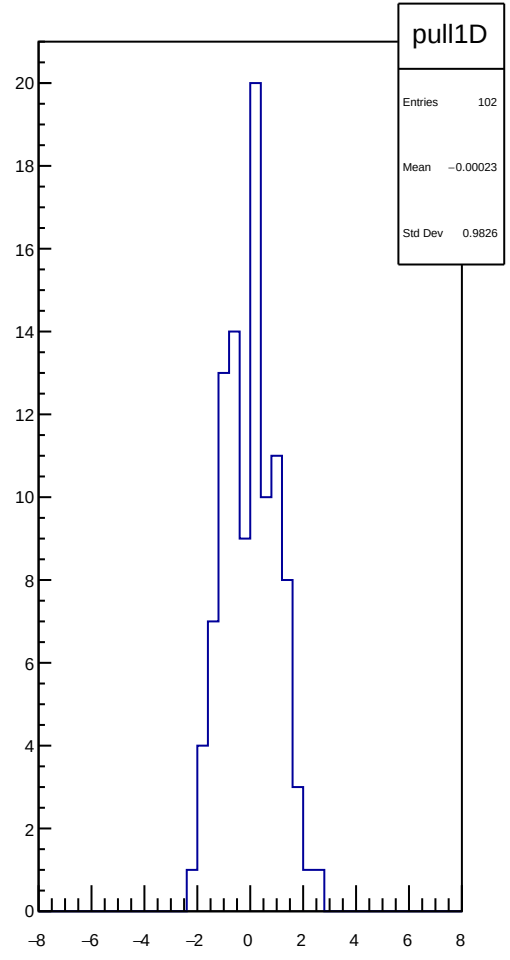

asym_cav4bQ_rms vs run
χ² / ndf 1288 / 101
p0 2.87 ± 0.002072
3
2.9
2.8
2.7
2.6

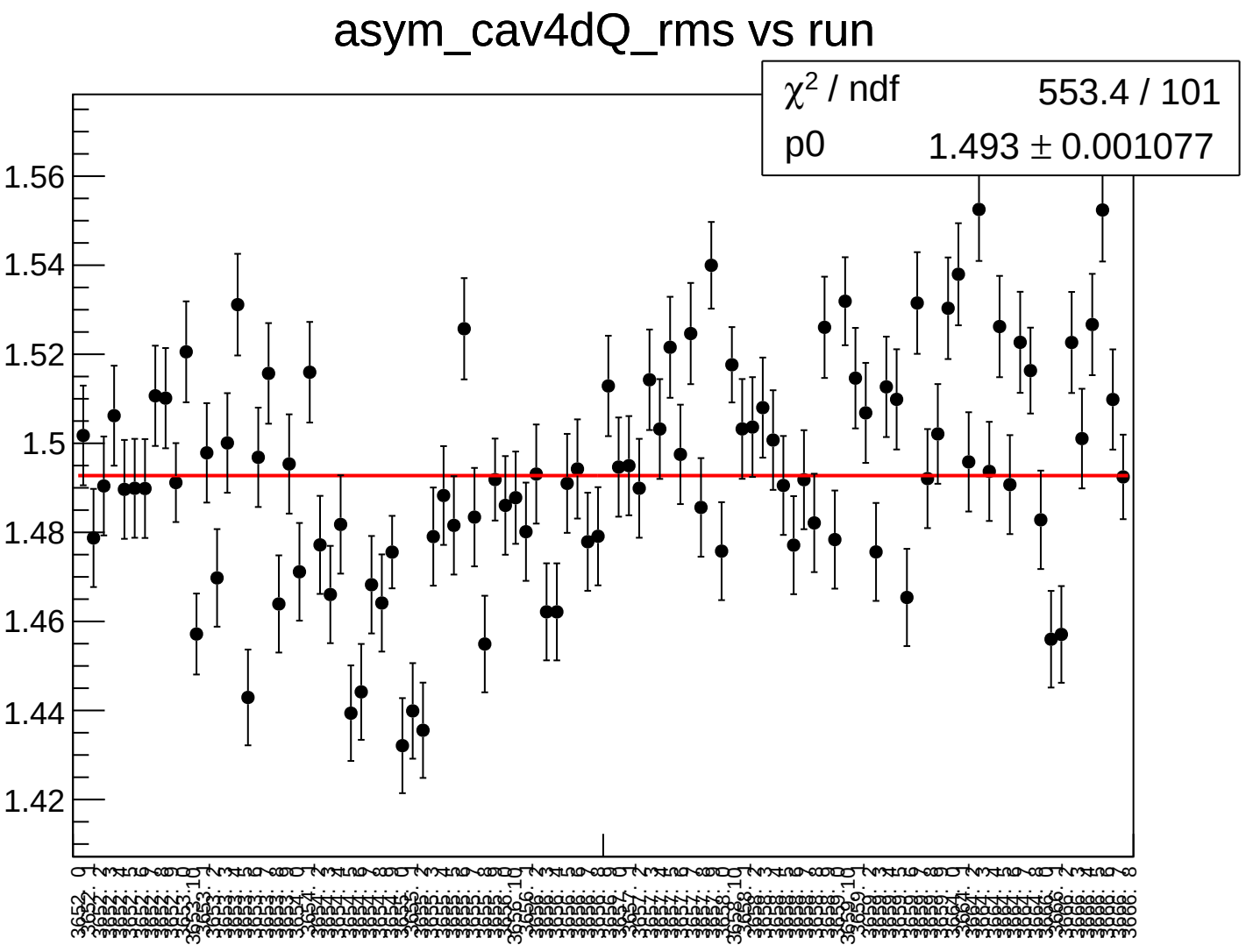

asym_cav4cQ_mean vs run
χ² / ndf 56.36 / 101
p0 357.2 ± 220.2
pull
Entries 102
Mean 565.1
Std Dev 505.5

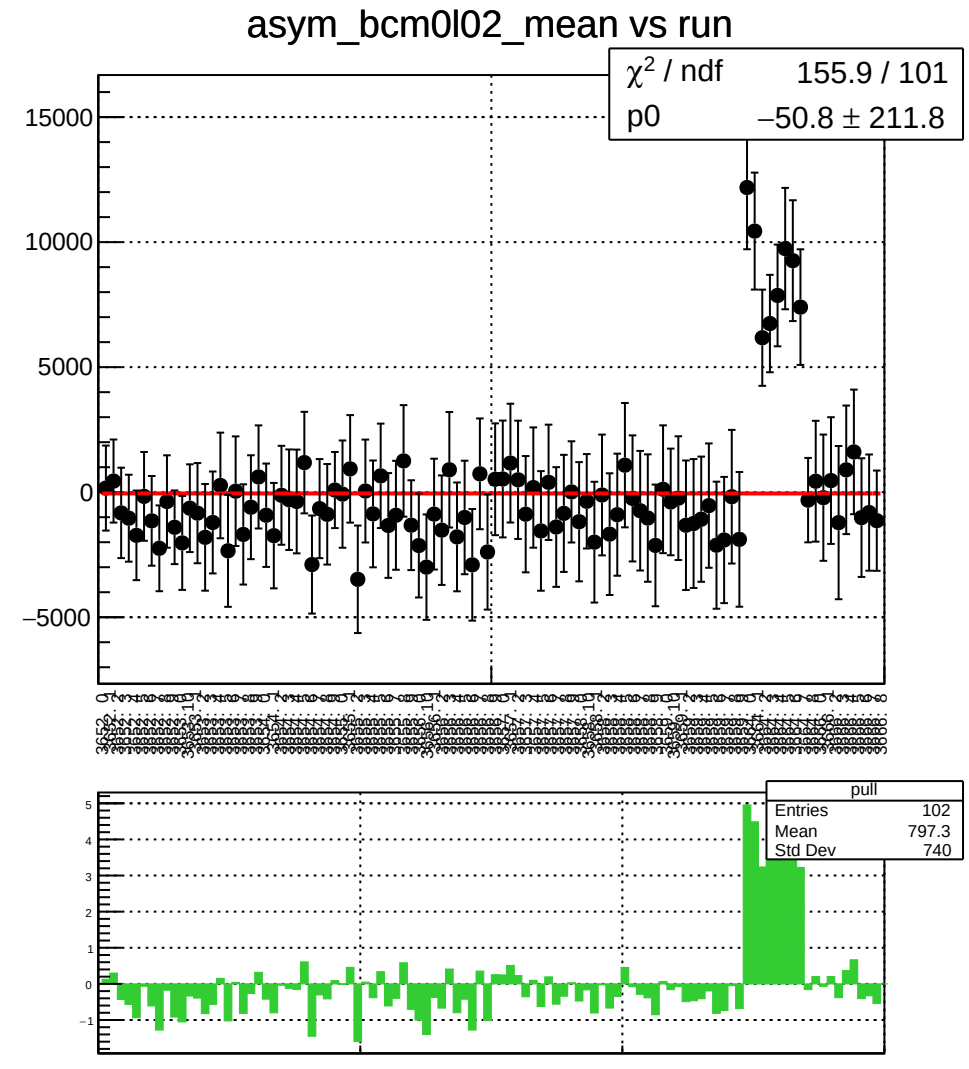

pull1D
Entries 102
Mean 0.01151
Std Dev 0.7433

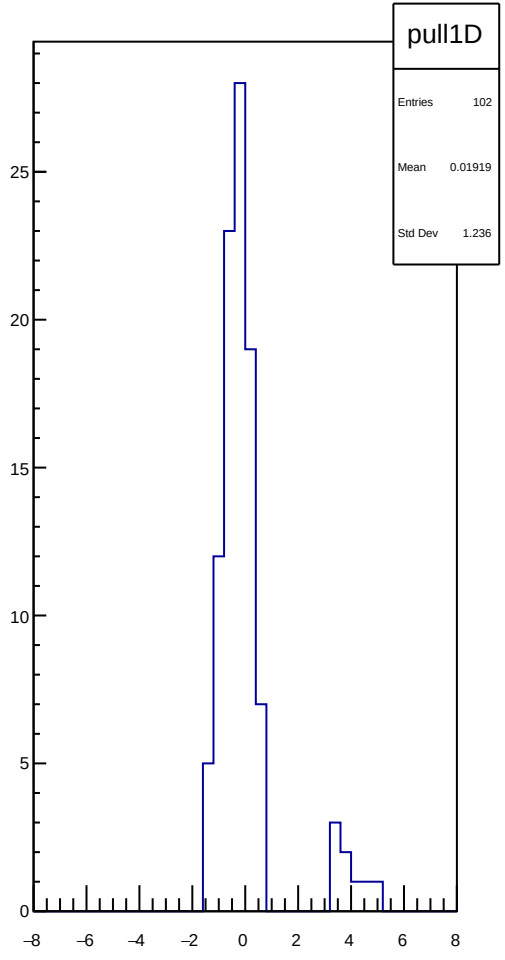

asym_cav4cQ_rms vs run
χ² / ndf 3.162e+04 / 101
p0 213.9 ± 0.1557
350
300
250
200
150

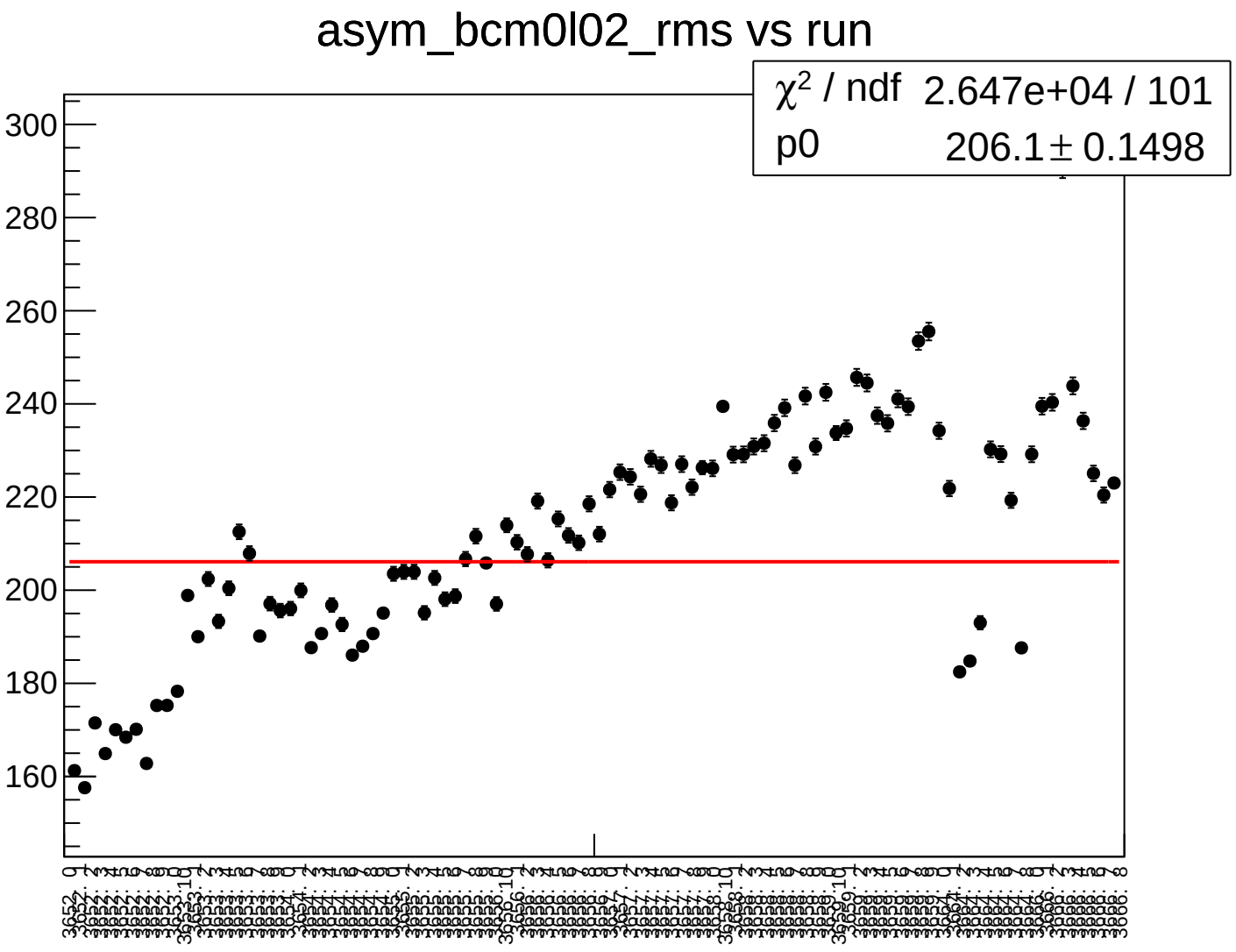

asym_cav4dQ_mean vs run
χ² / ndf 98.48 / 101
p0 −1.22 ± 1.524
pull
Entries 102
Mean 1.6e+04
Std Dev 1.596e+04

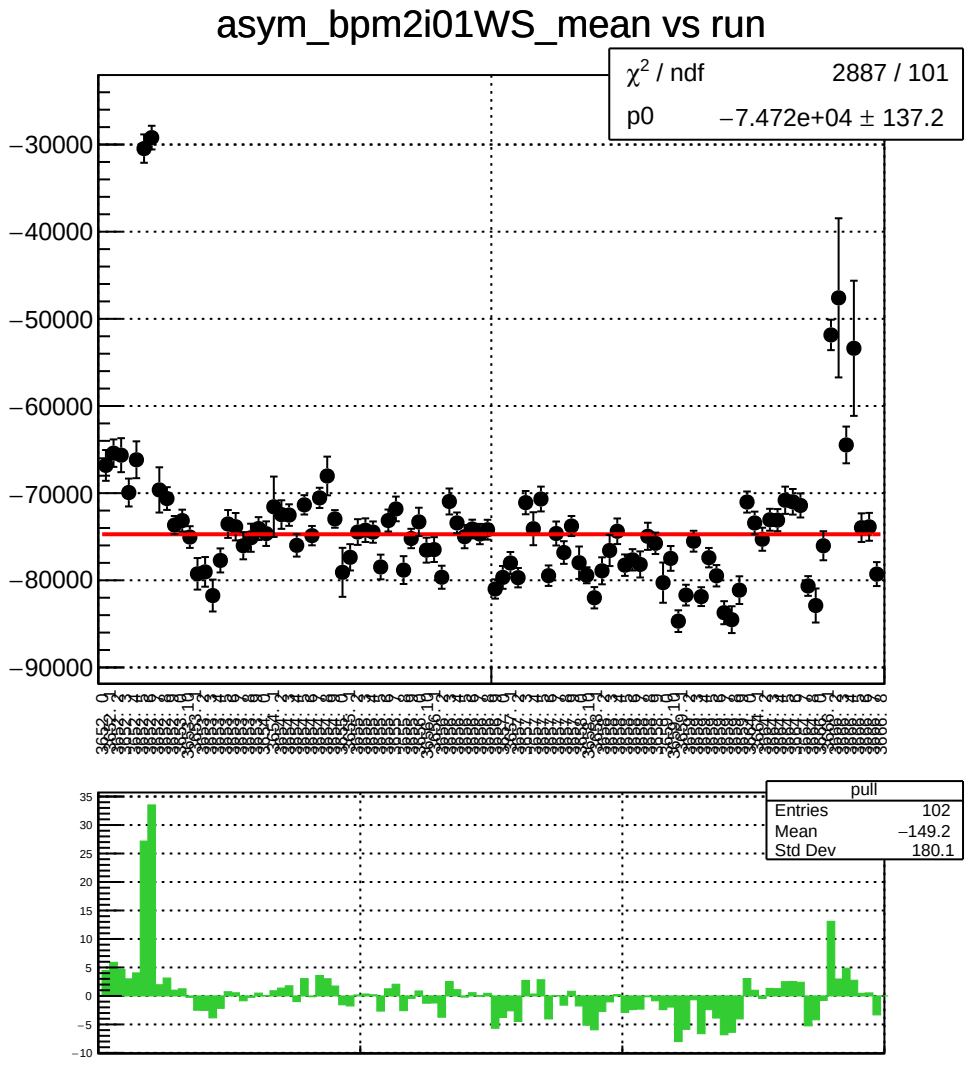

pull1D
Entries 102
Mean −0.00023
Std Dev 0.9826

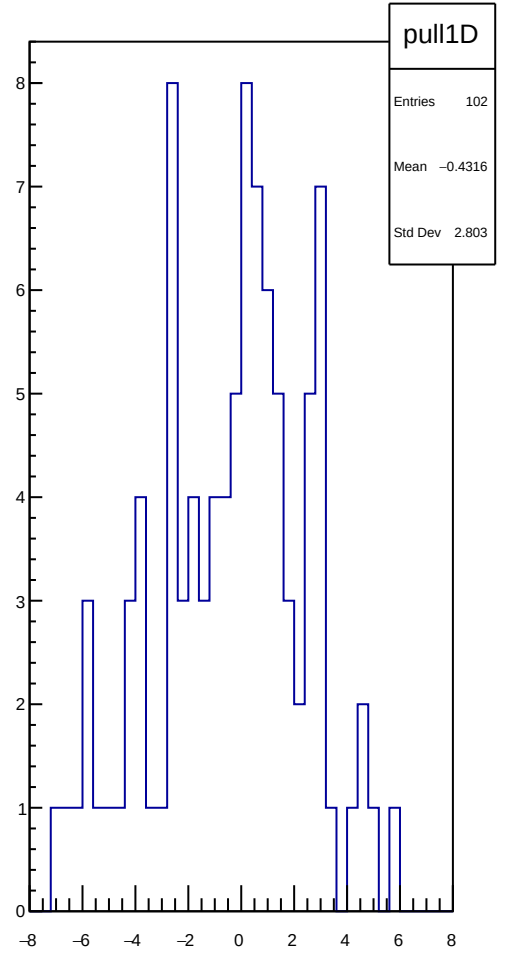

asym_cav4dQ_rms vs run
χ² / ndf 553.4 / 101
p0 1.493 ± 0.001077
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42

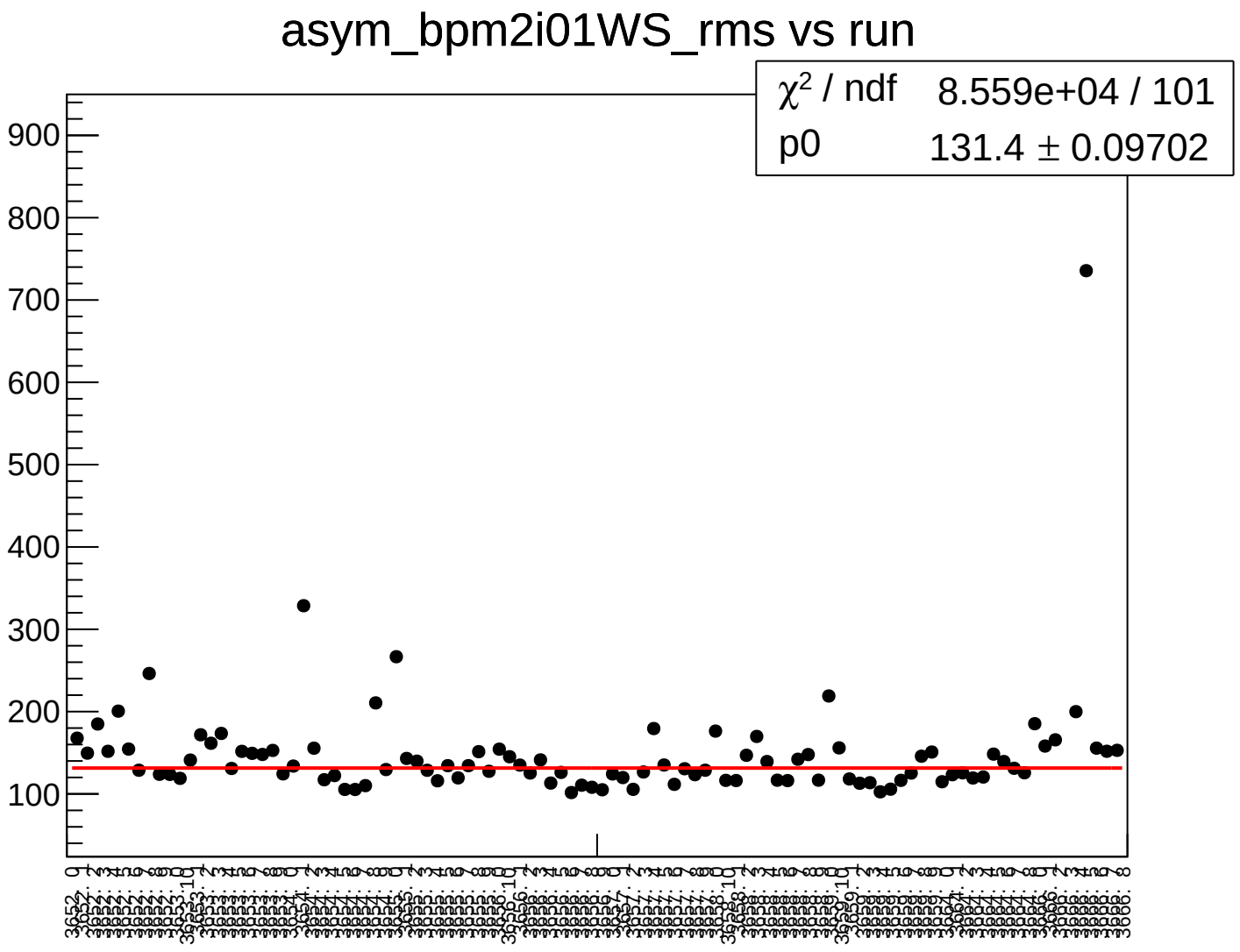

asym_bcm0l02_mean vs run
χ² / ndf 155.9 / 101
p0 −50.8 ± 211.8
15000
10000
5000
0
−5000
pull
Entries 102
Mean 797.3
Std Dev 740
5
4
3
2
1
0
−1

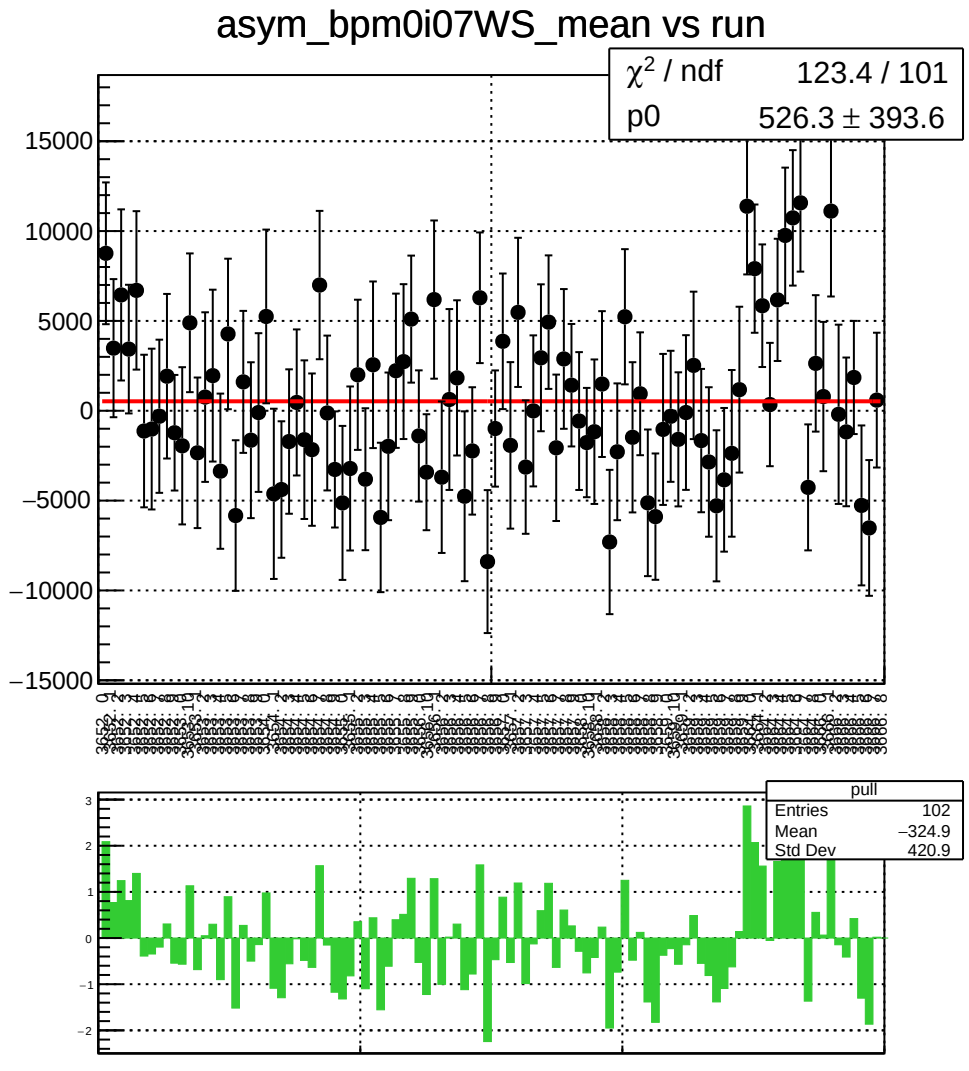

pull1D
Entries 102
Mean 0.01919
Std Dev 1.236
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

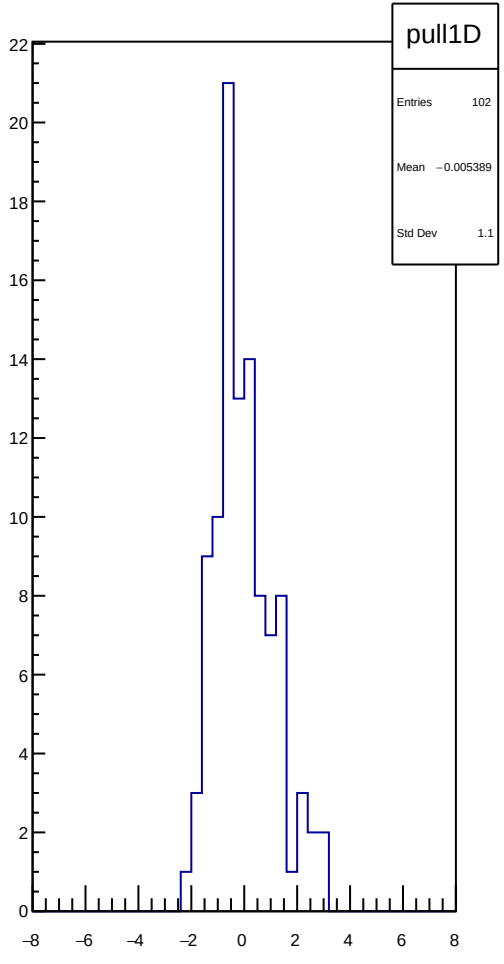

asym_bcm0l02_rms vs run
χ² / ndf 2.647e+04 / 101
p0 206.1 ± 0.1498
300
280
260
240
220
200
180
160

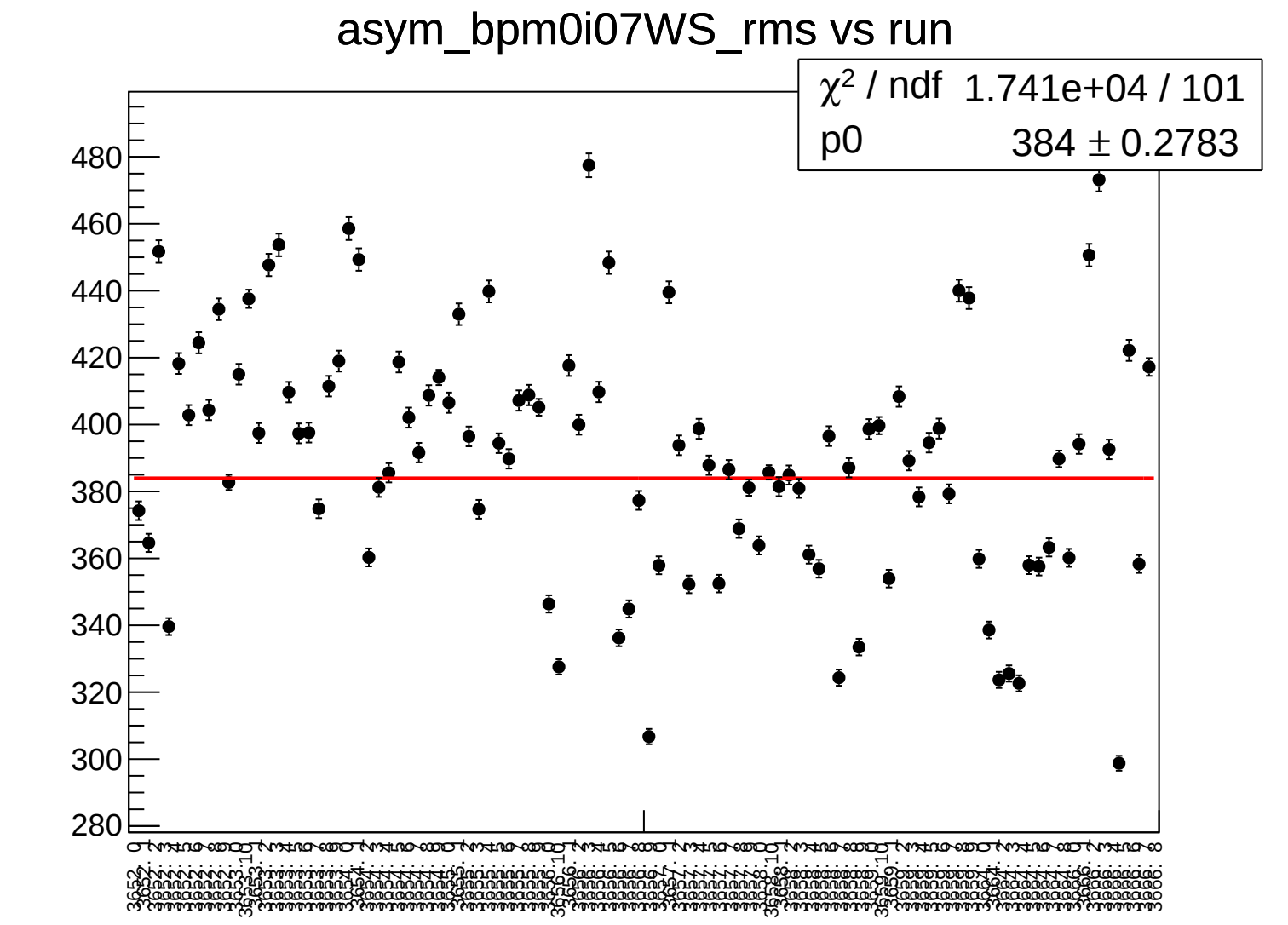

asym_bpm2i01WS_mean vs run
χ² / ndf 2887 / 101
p0 −7.472e+04 ± 137.2
−30000
−40000
−50000
−60000
−70000
−80000
−90000
pull
Entries 102
Mean −149.2
Std Dev 180.1
35
30
25
20
15
10
5
0
−5
−10

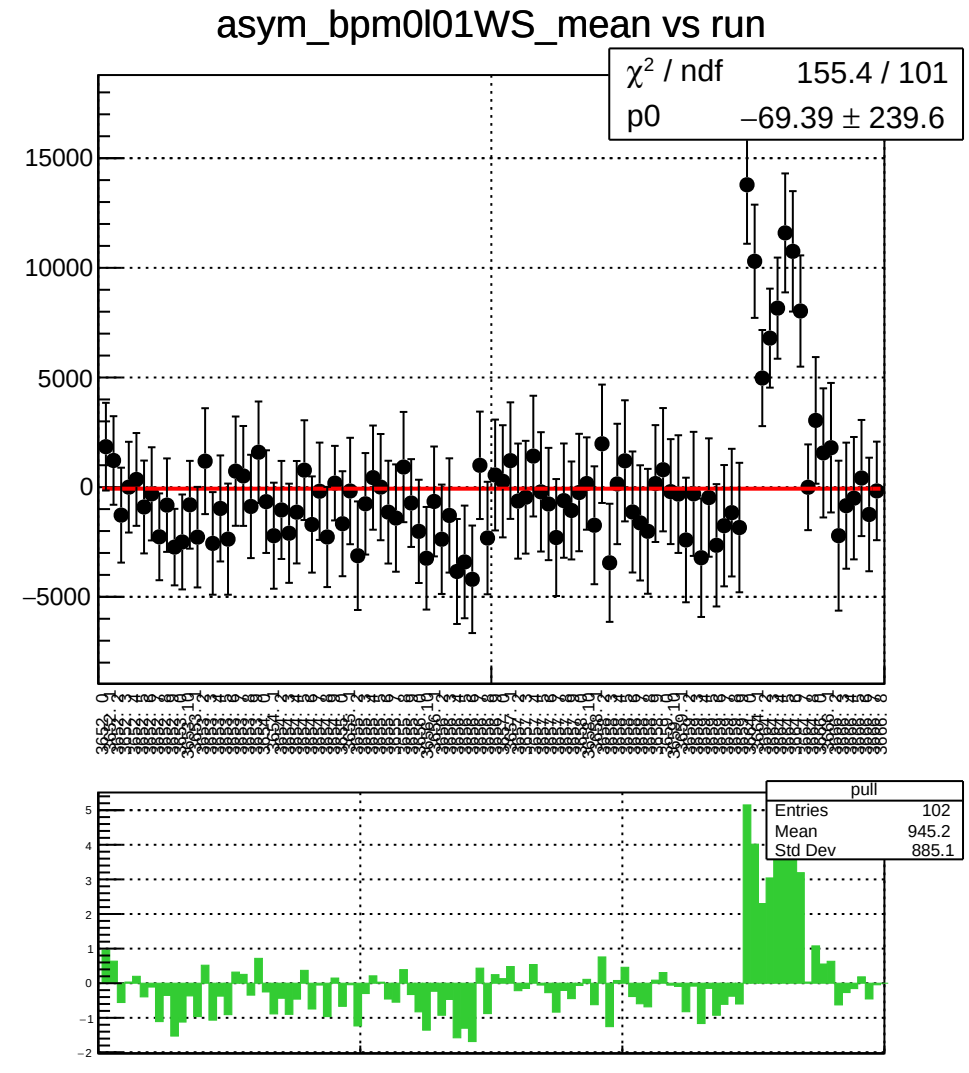

pull1D
Entries 102
Mean −0.4316
Std Dev 2.803
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

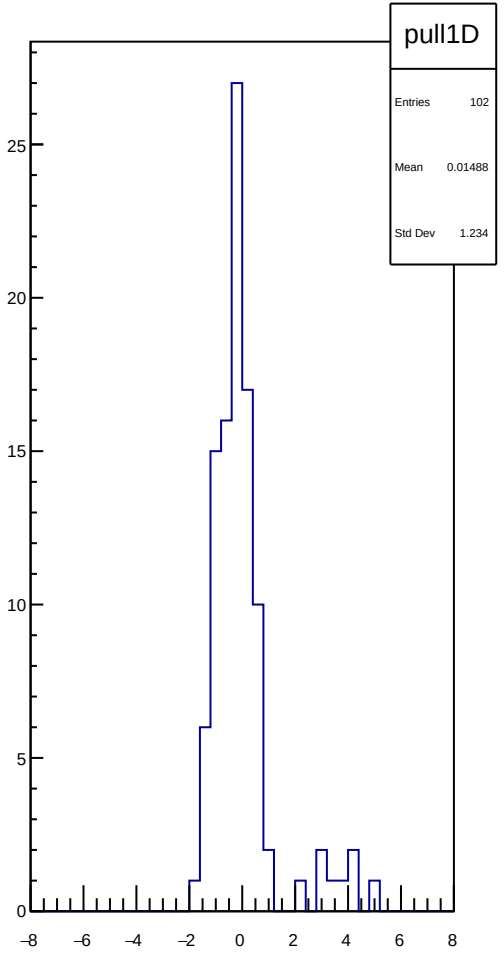

asym_bpm2i01WS_rms vs run
χ^2 / ndf 8.559e+04 / 101
p0 131.4 ± 0.09702
900
800
700
600
500
400
300
200
100

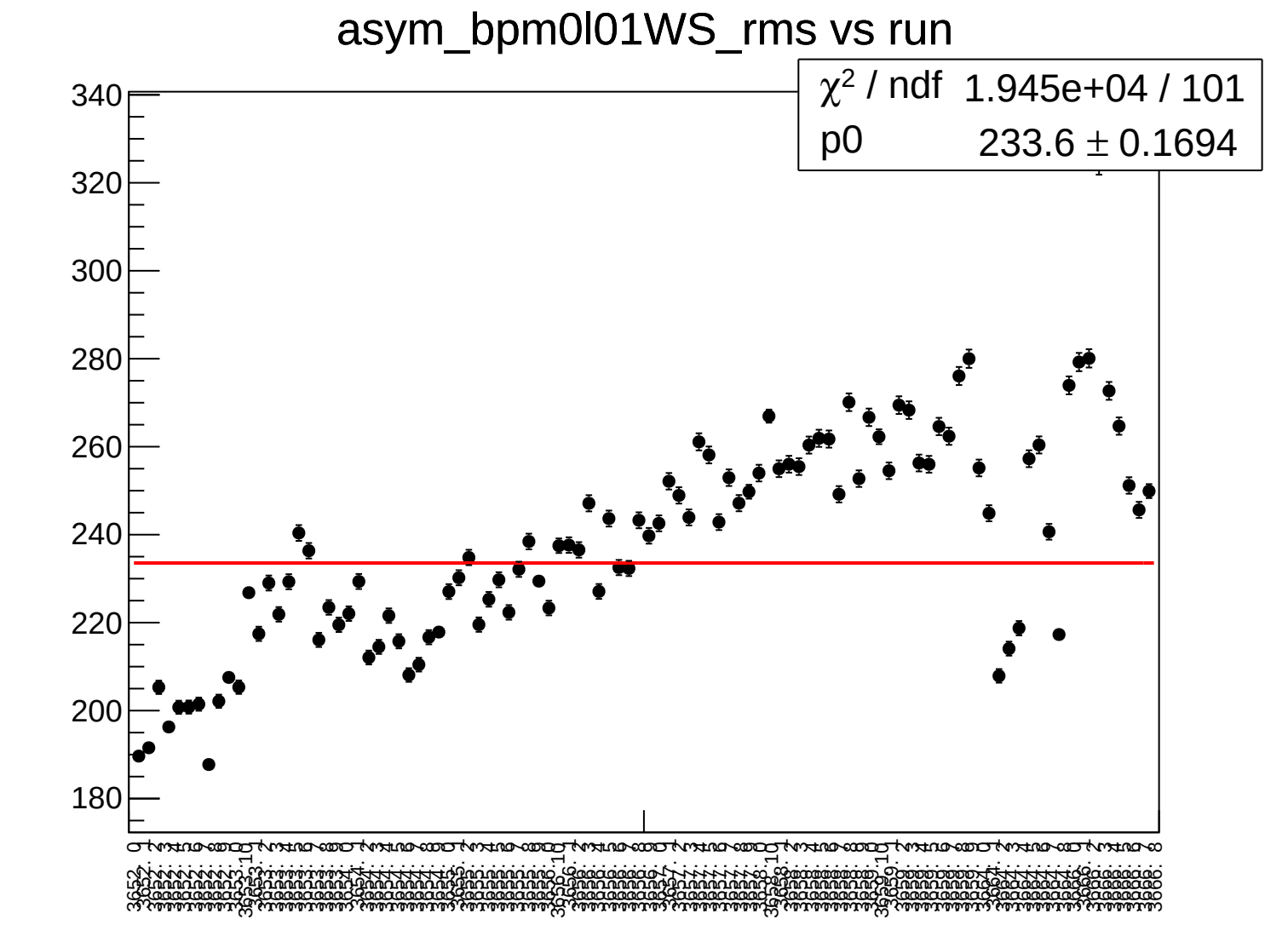

asym_bpm0i07WS_mean vs run
χ² / ndf 123.4 / 101
p0 526.3 ± 393.6
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 102
Mean −324.9
Std Dev 420.9
3
2
1
0
−1
−2

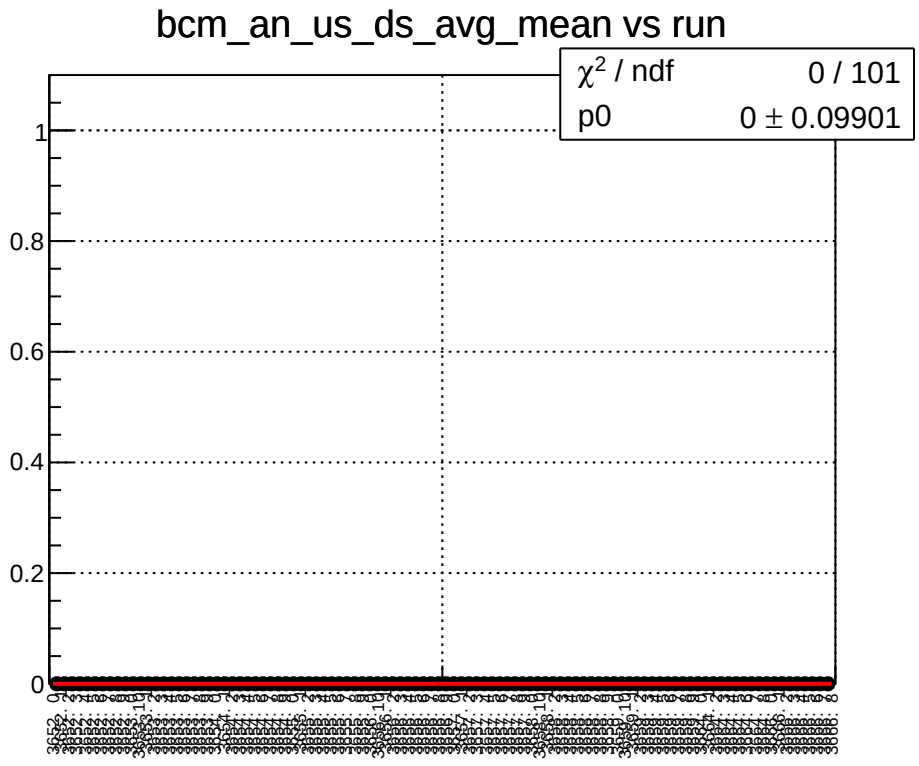

pull1D
Entries 102
Mean −0.005389
Std Dev 1.1
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

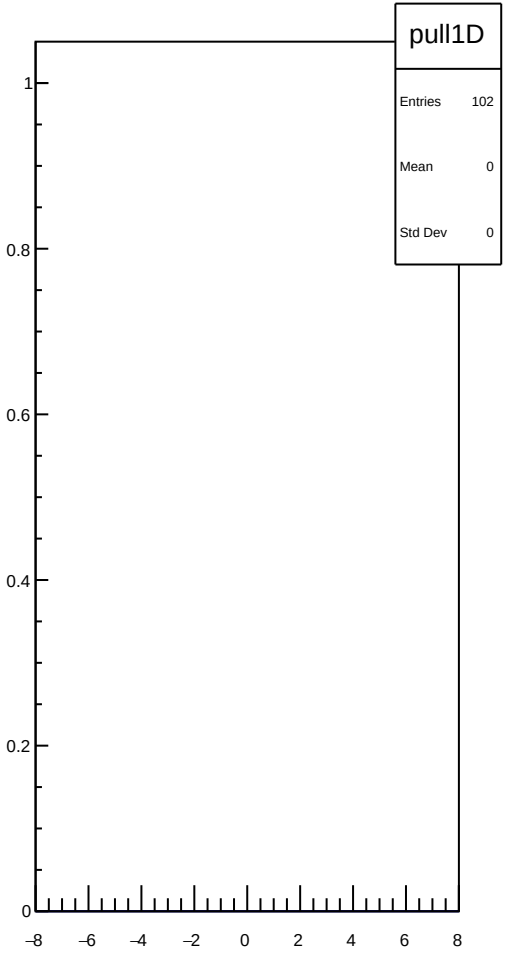

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.741e+04 / 101
p0 384 ± 0.2783
480
460
440
420
400
380
360
340
320
300
280

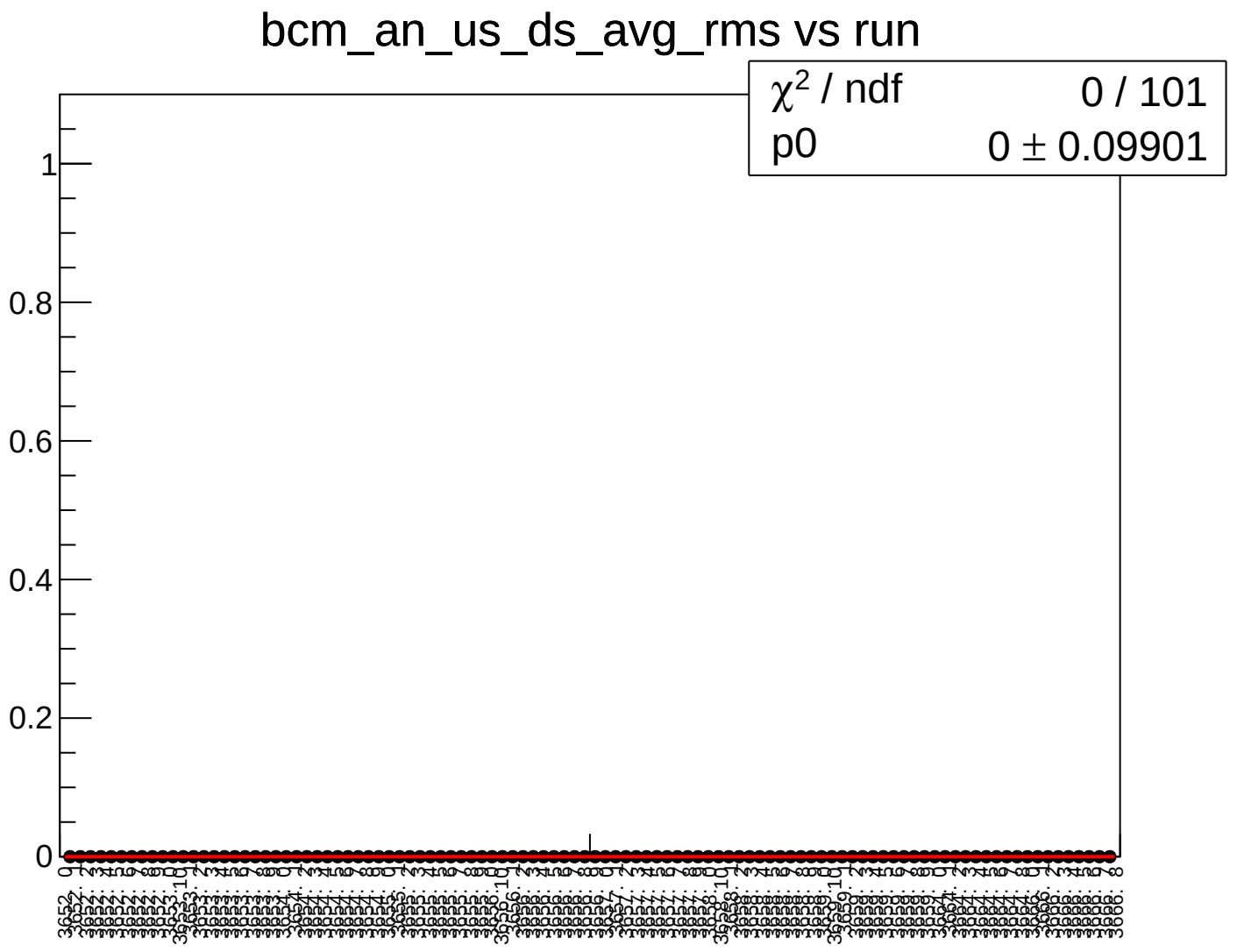

asym_bpm0l01WS_mean vs run
χ² / ndf 155.4 / 101
p0 −69.39 ± 239.6
15000
10000
5000
0
−5000
pull
Entries 102
Mean 945.2
Std Dev 885.1
5
4
3
2
1
0
−1
−2

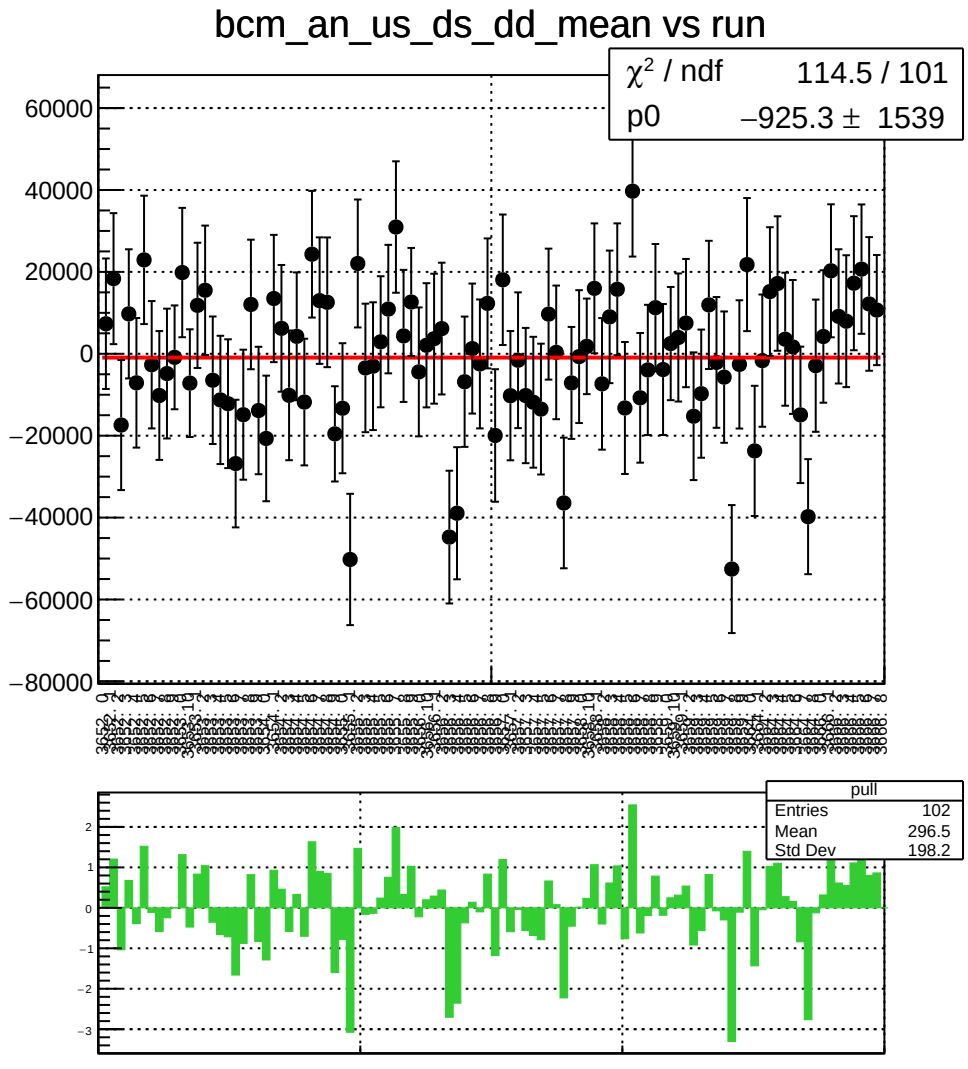

pull1D
Entries 102
Mean 0.01488
Std Dev 1.234
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

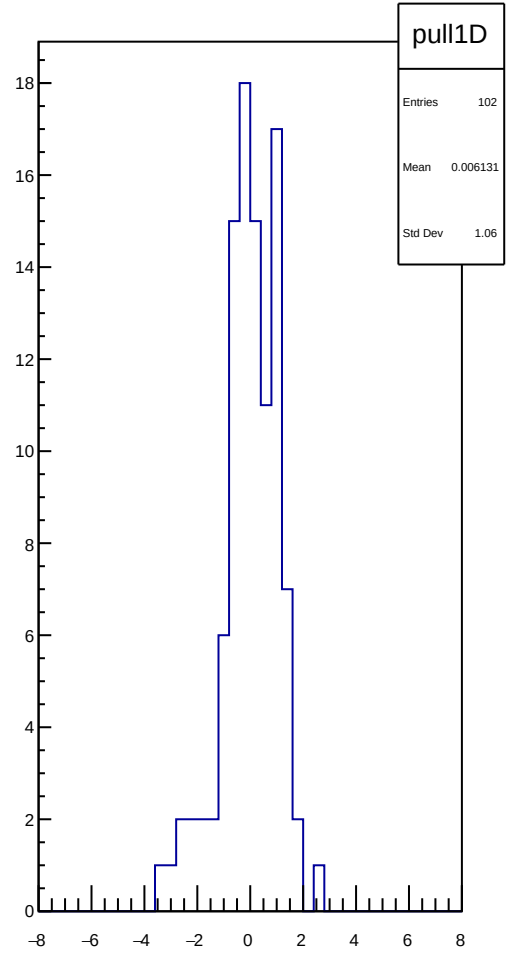

asym_bpm0l01WS_rms vs run
χ² / ndf 1.945e+04 / 101
p0 233.6 ± 0.1694
340
320
300
280
260
240
220
200
180

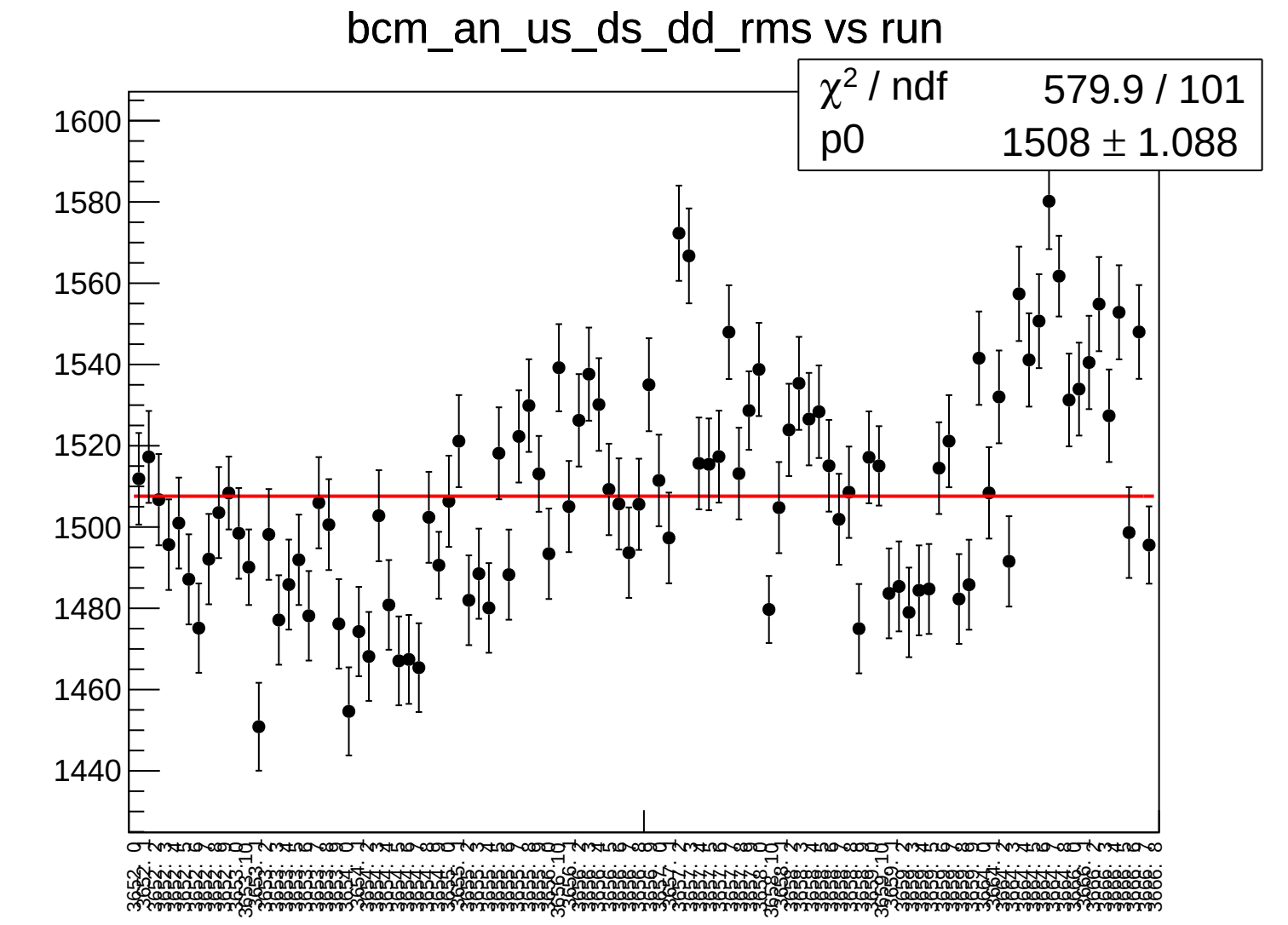

bcm_an_us_ds_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

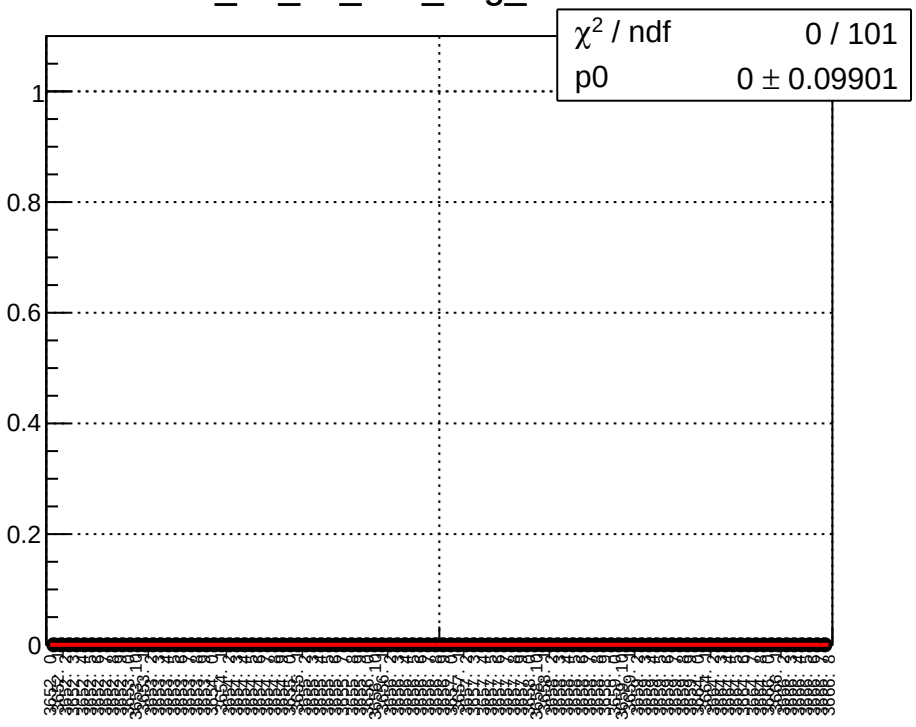

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

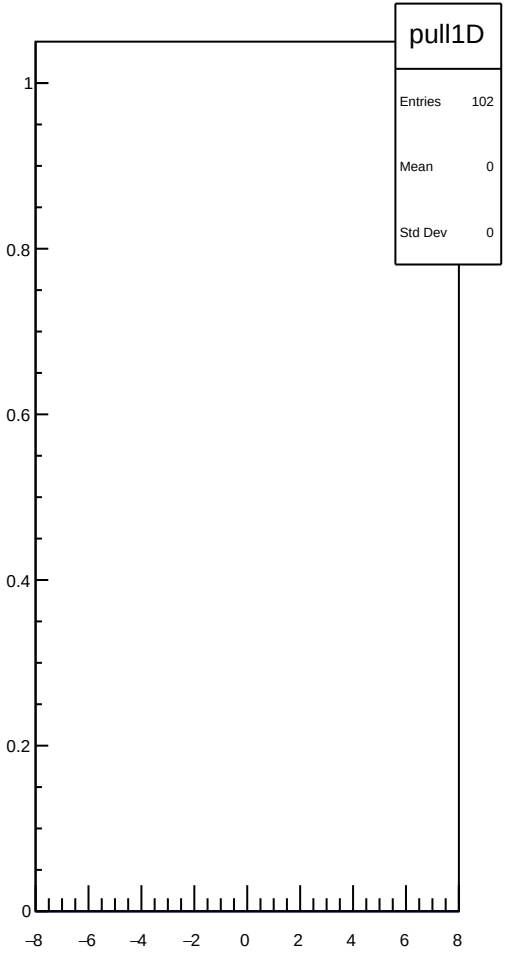

bcm_an_us_ds_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

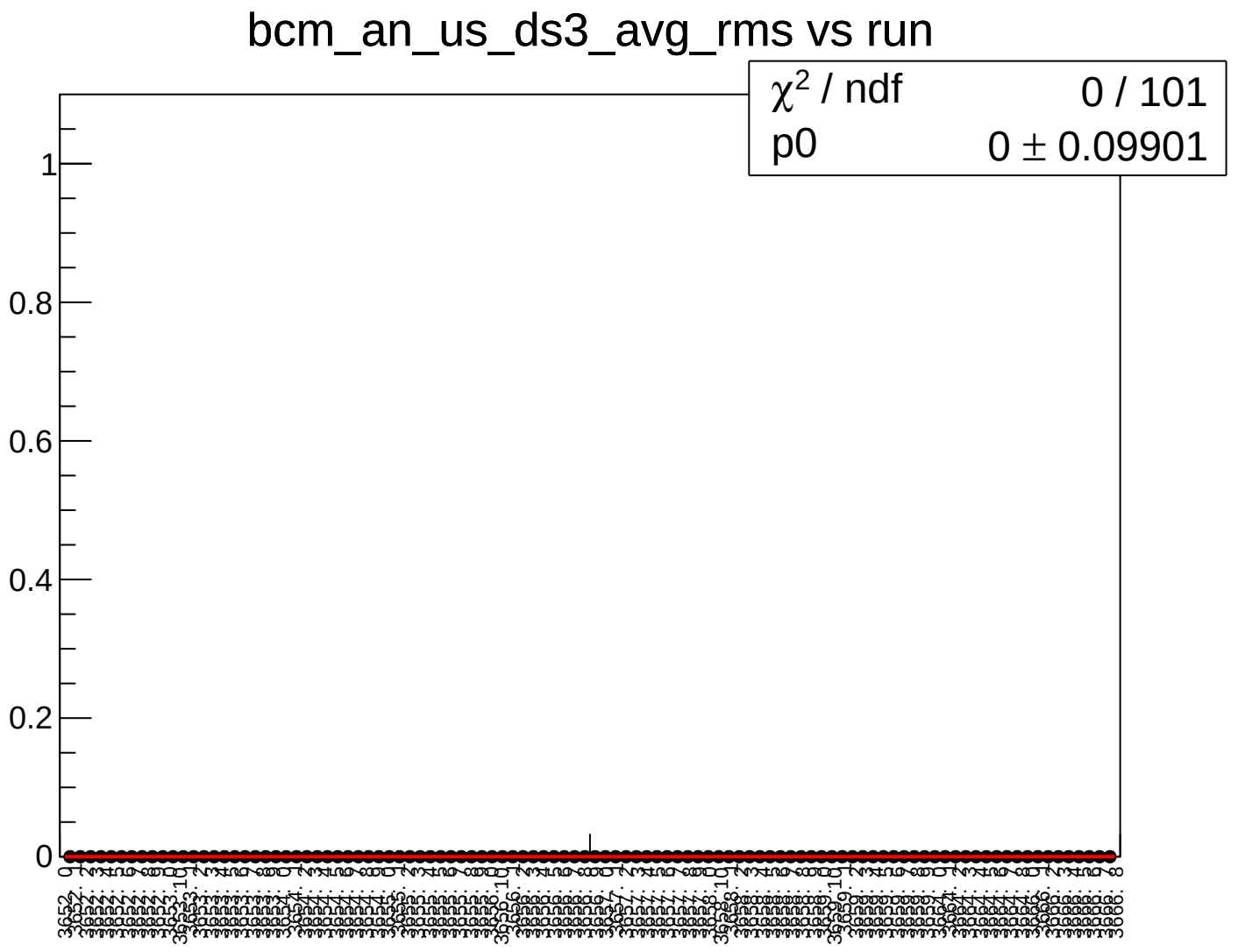

bcm_an_us_ds_dd_mean vs run
χ² / ndf 114.5 / 101
p0 −925.3 ± 1539
pull
Entries 102
Mean 296.5
Std Dev 198.2

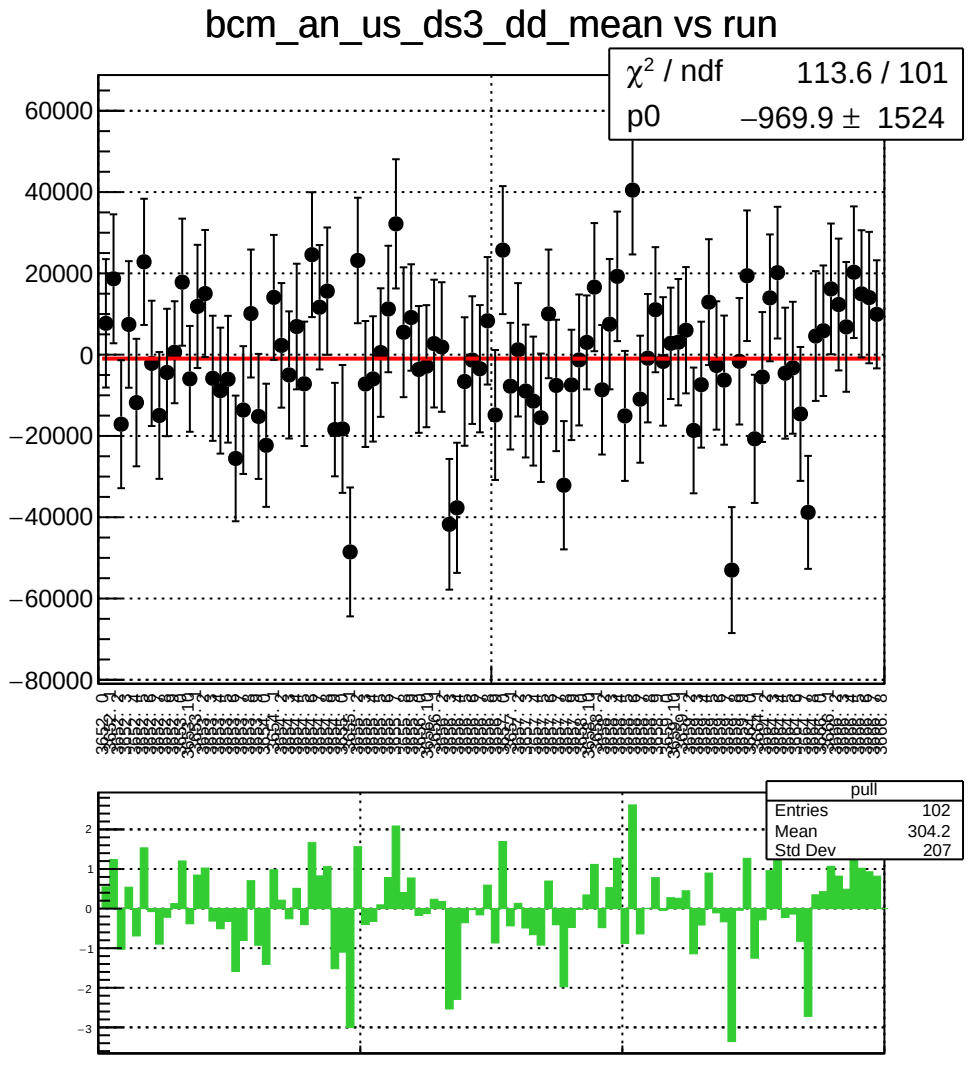

pull1D
Entries 102
Mean 0.006131
Std Dev 1.06

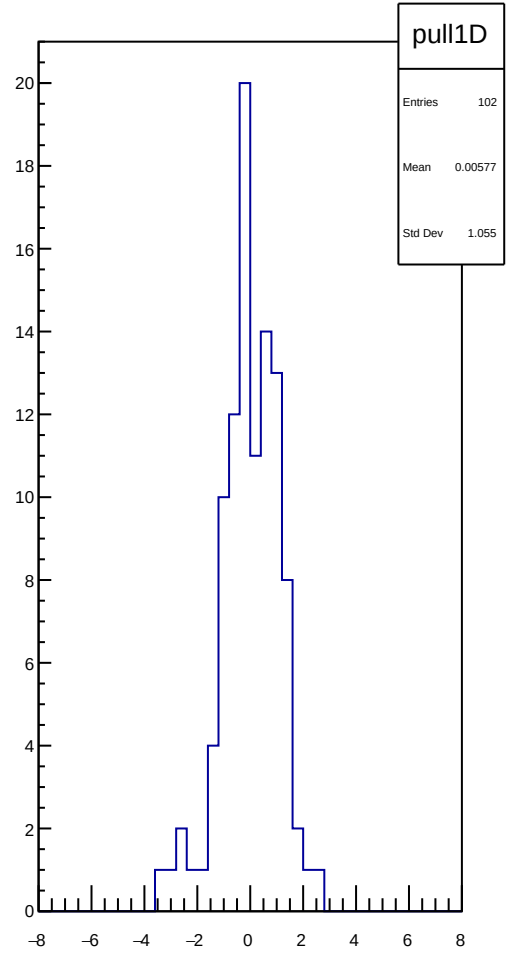

bcm_an_us_ds_dd_rms vs run
χ² / ndf 579.9 / 101
p0 1508 ± 1.088
1600
1580
1560
1540
1520
1500
1480
1460
1440

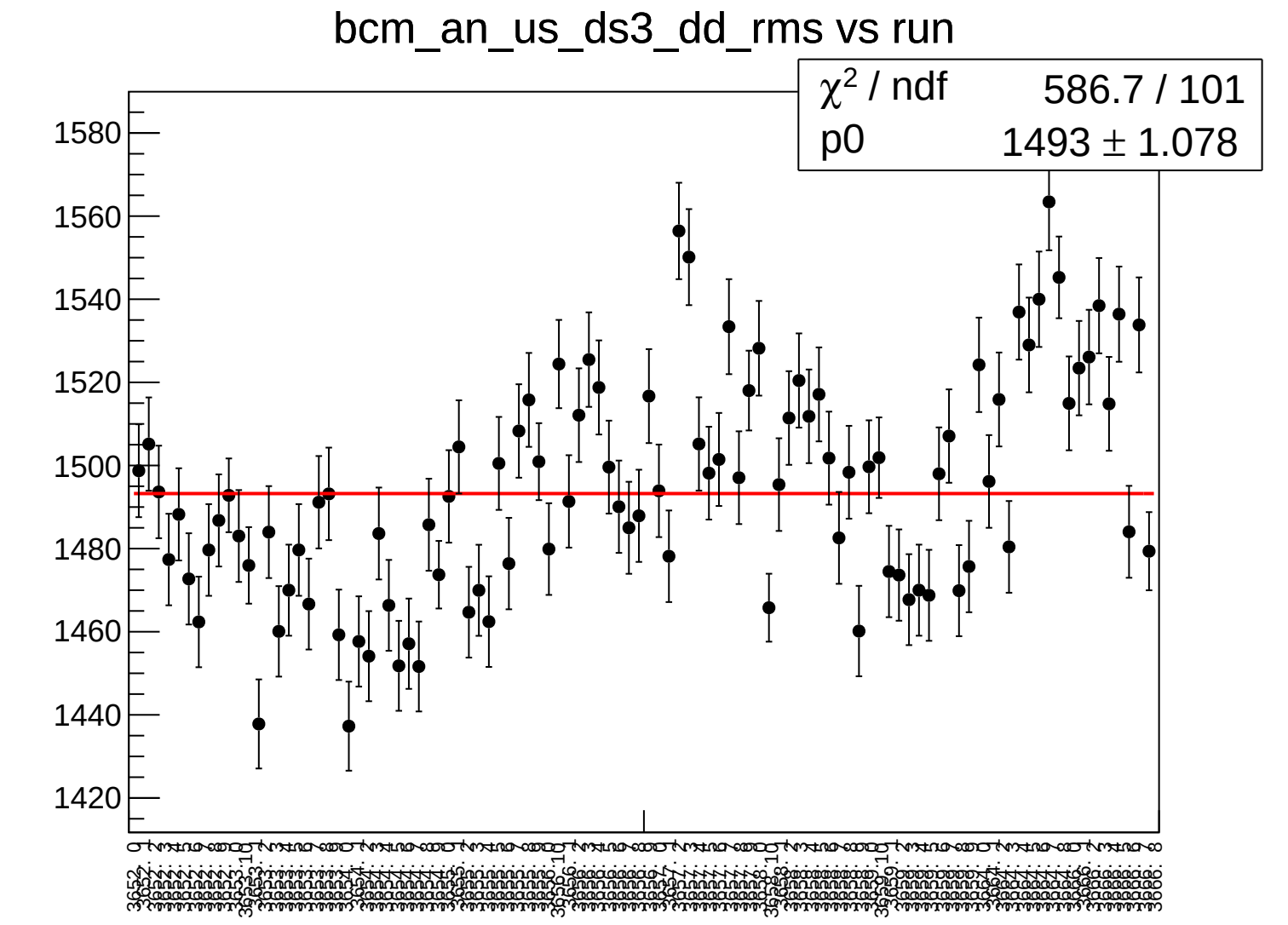

bcm_an_us_ds3_avg_mean vs run
χ^2 / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

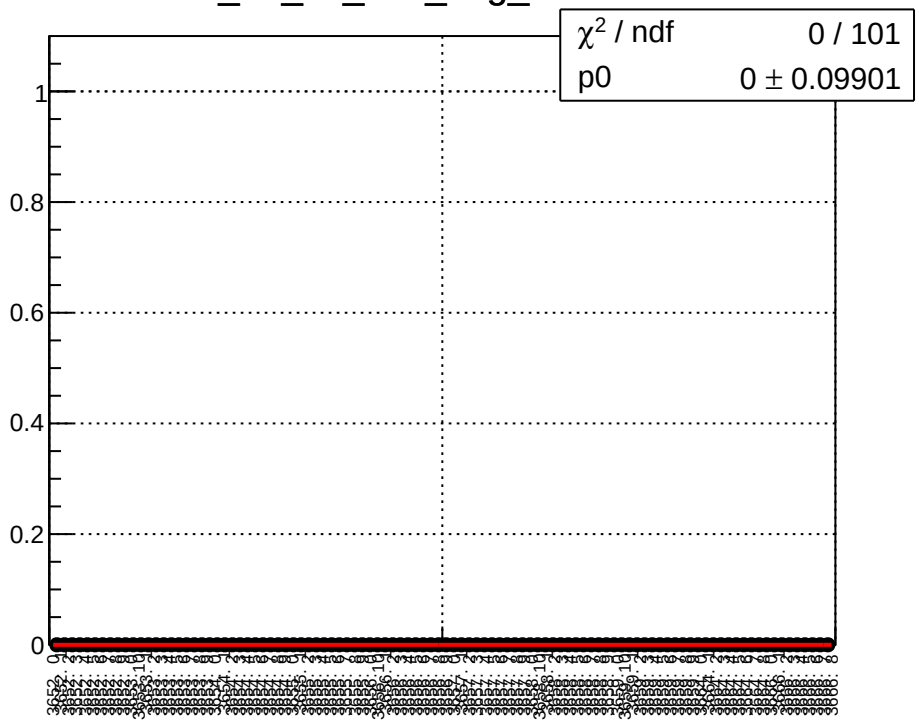

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

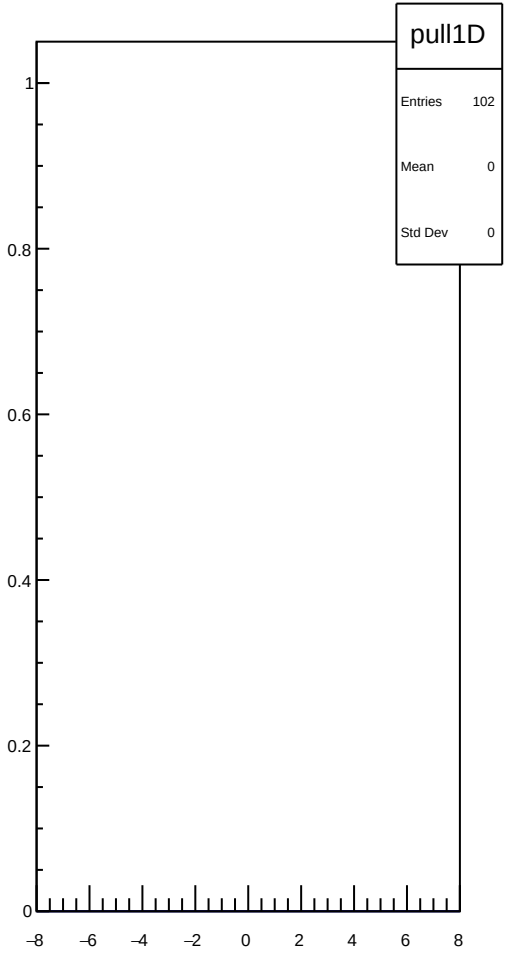

bcm_an_us_ds3_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

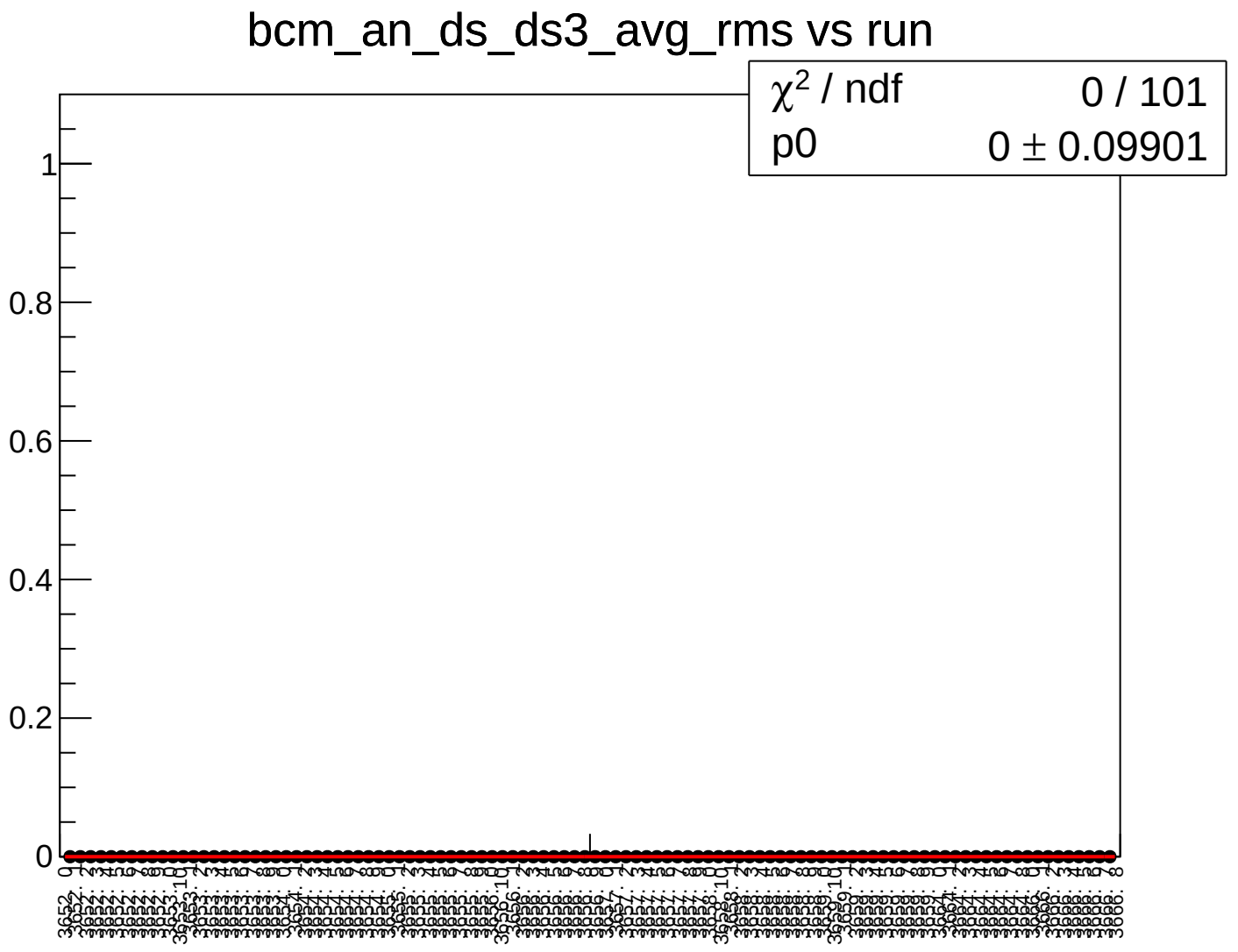

bcm_an_us_ds3_dd_mean vs run
χ² / ndf 113.6 / 101
p0 −969.9 ± 1524
pull
Entries 102
Mean 304.2
Std Dev 207

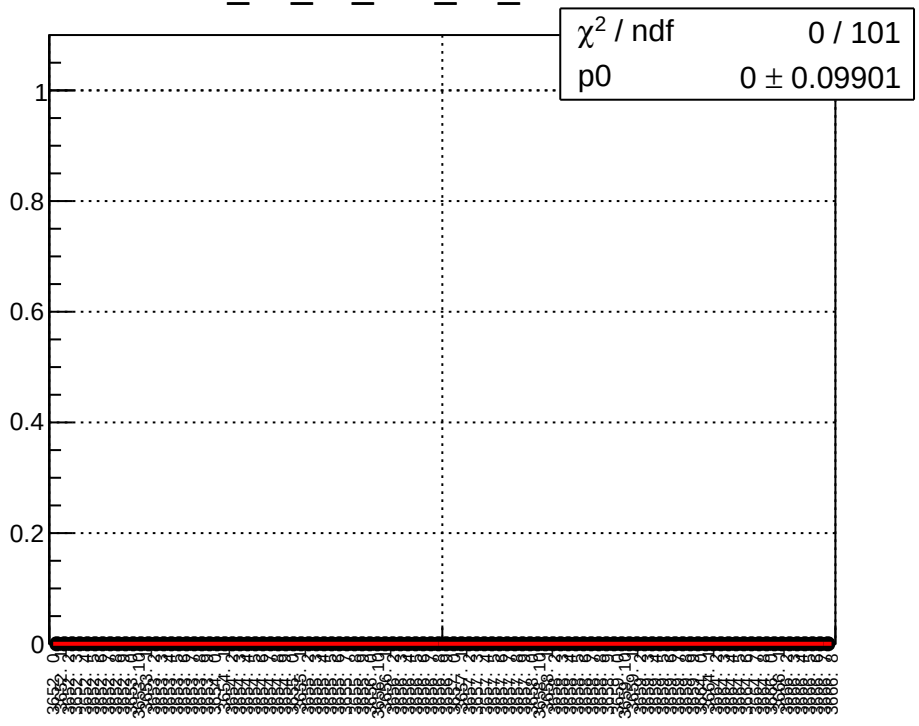

pull1D
Entries 102
Mean 0.00577
Std Dev 1.055

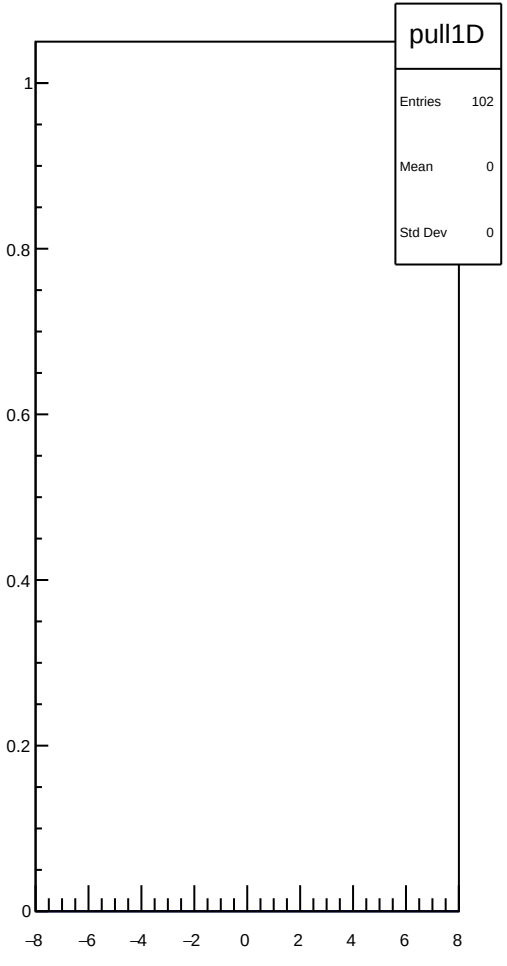

bcm_an_us_ds3_dd_rms vs run
χ² / ndf 586.7 / 101
p0 1493 ± 1.078
1580
1560
1540
1520
1500
1480
1460
1440
1420

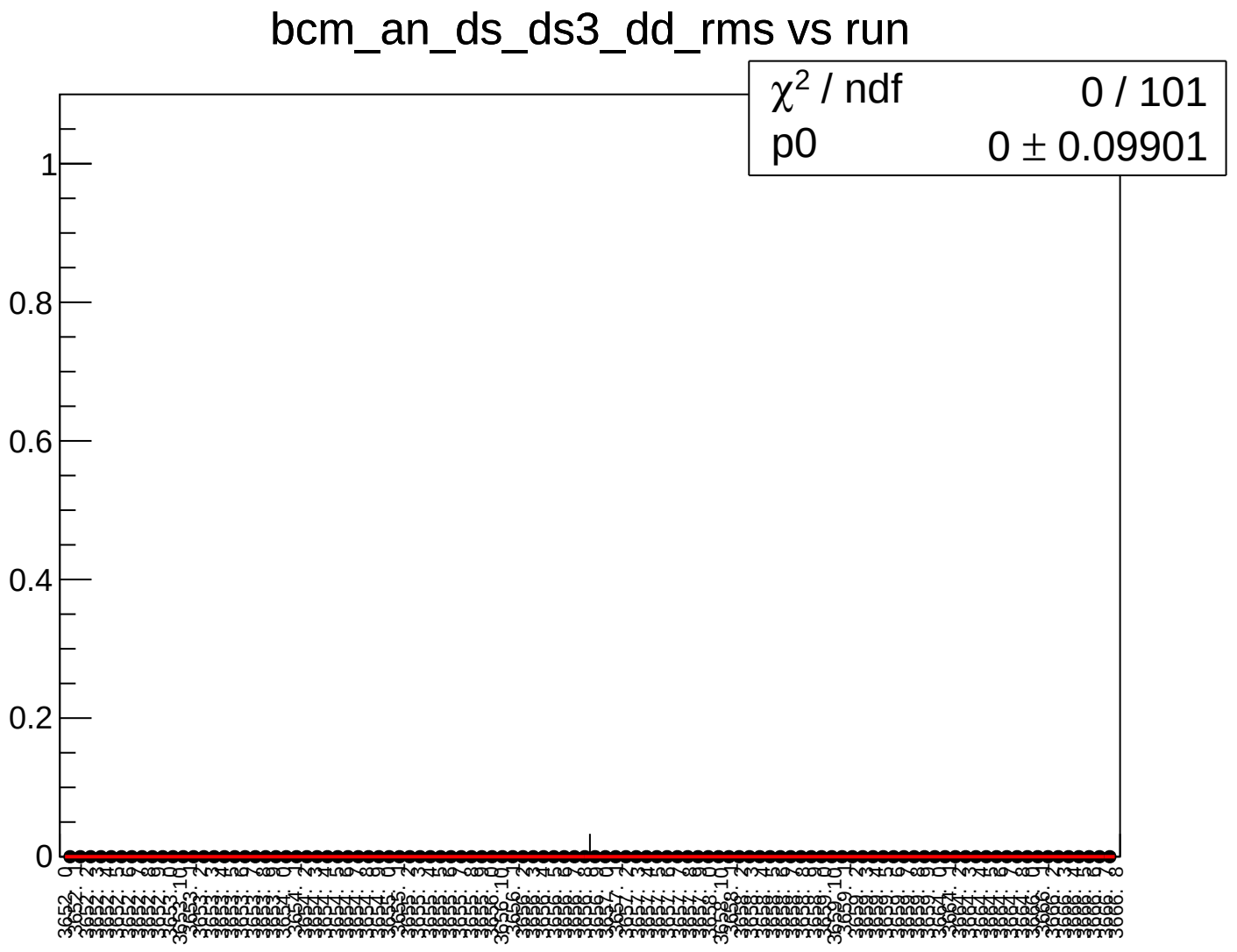

bcm_an_ds_ds3_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

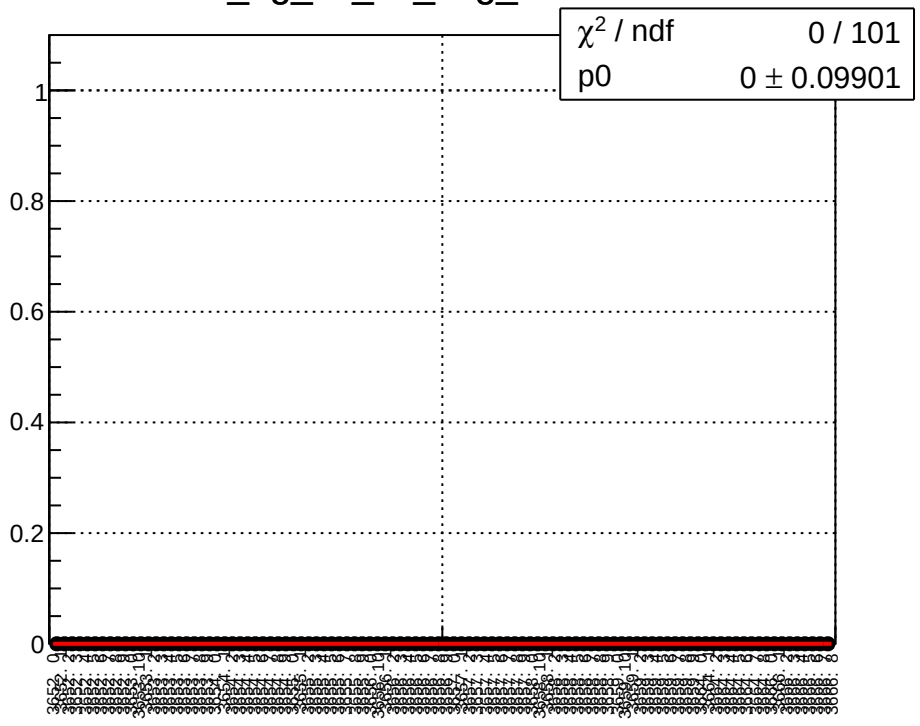

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

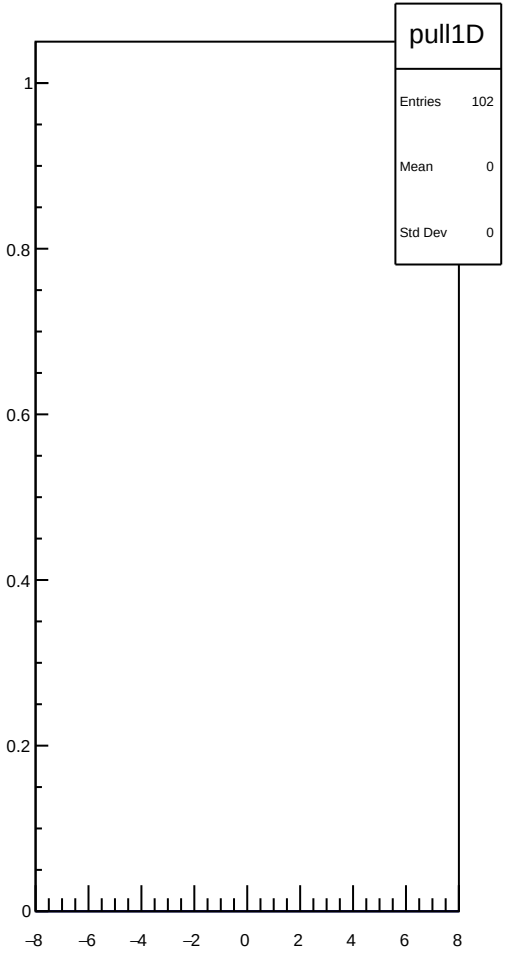

bcm_an_ds_ds3_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

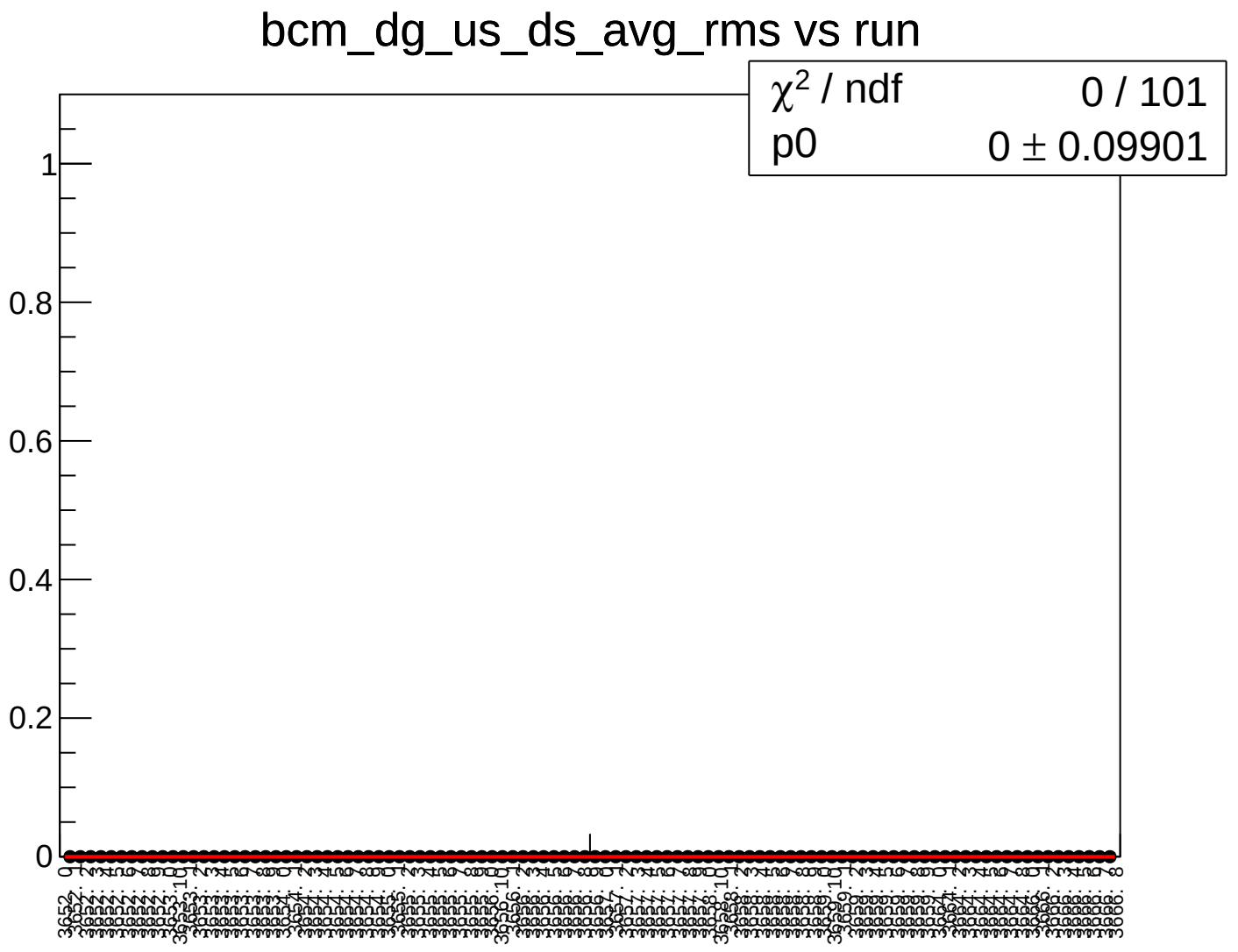

bcm_an_ds_ds3_dd_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

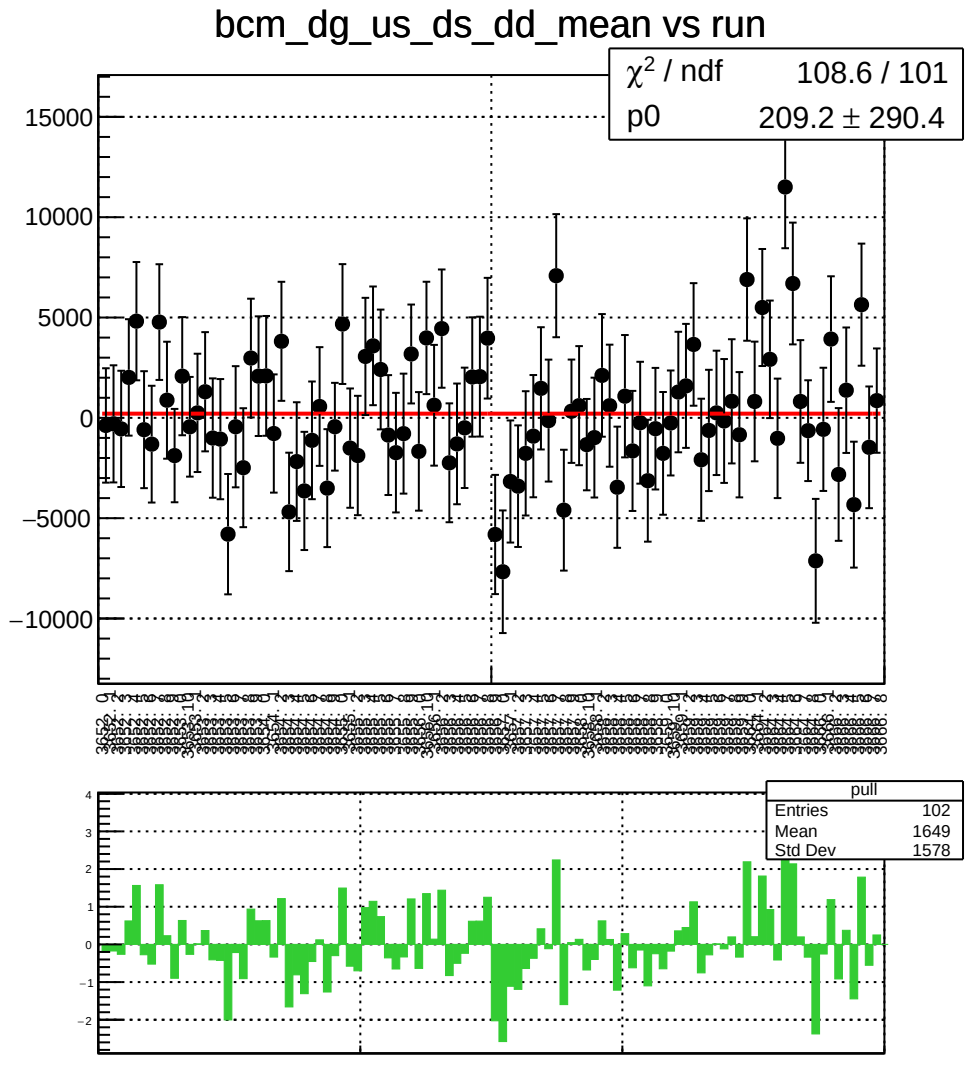

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

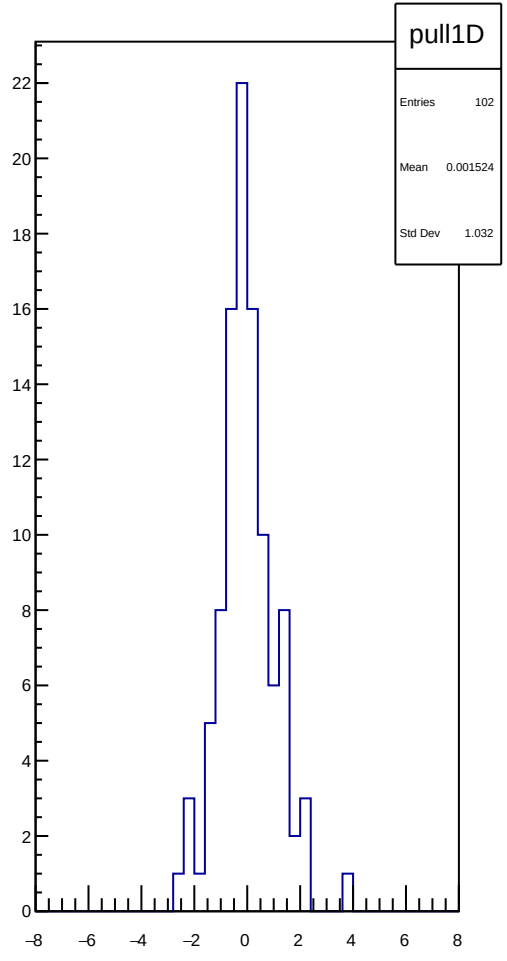

bcm_an_ds_ds3_dd_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

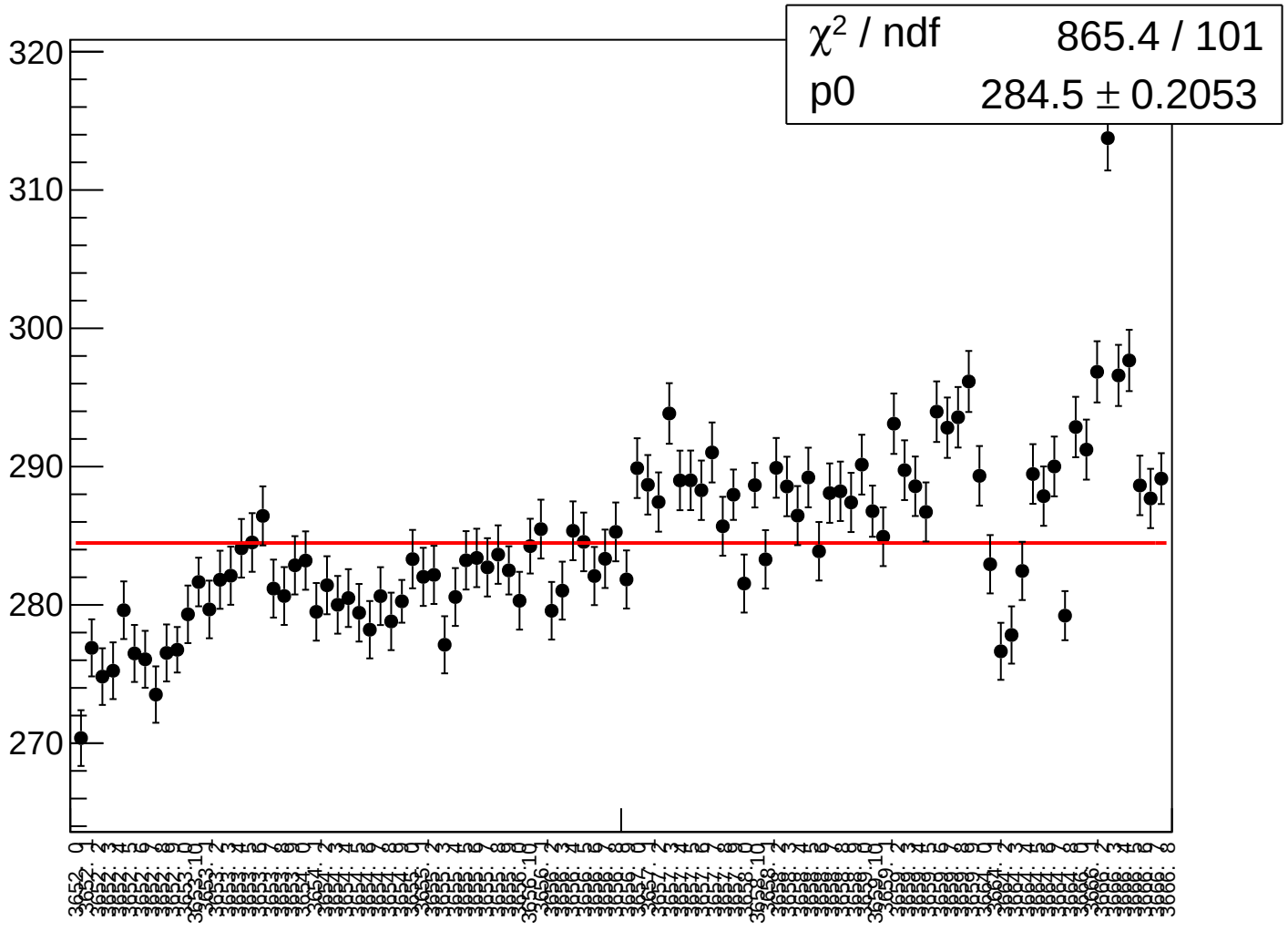

bcm_dg_us_ds_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

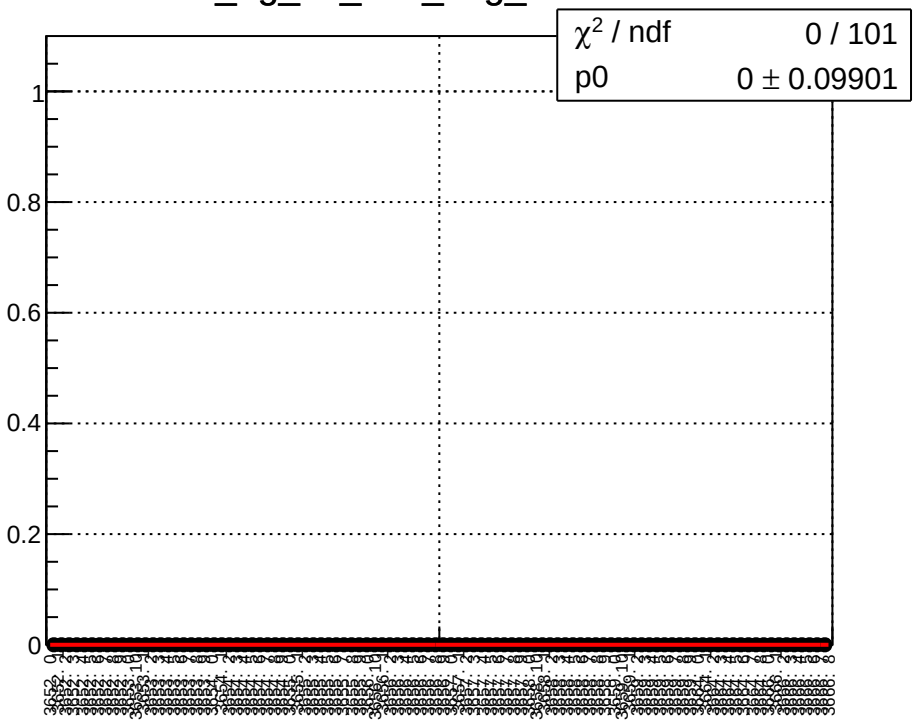

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

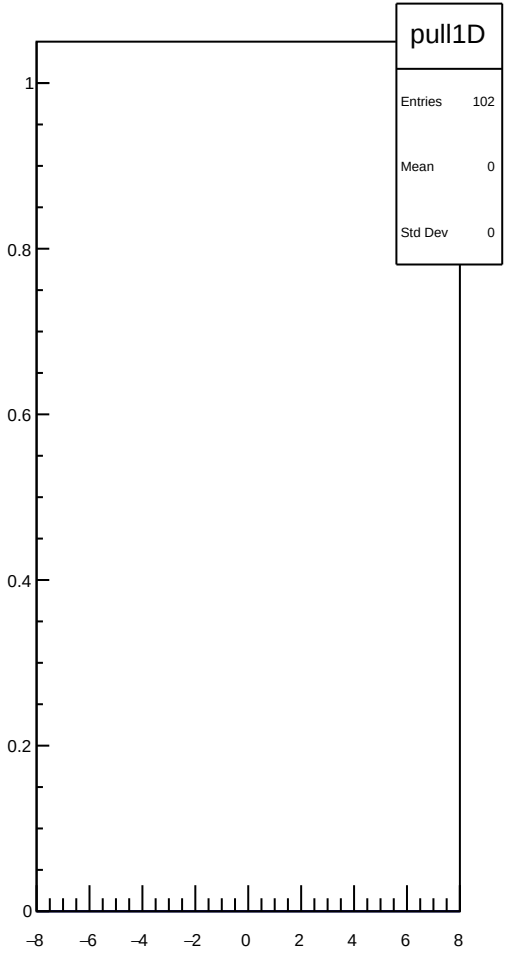

bcm_dg_us_ds_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

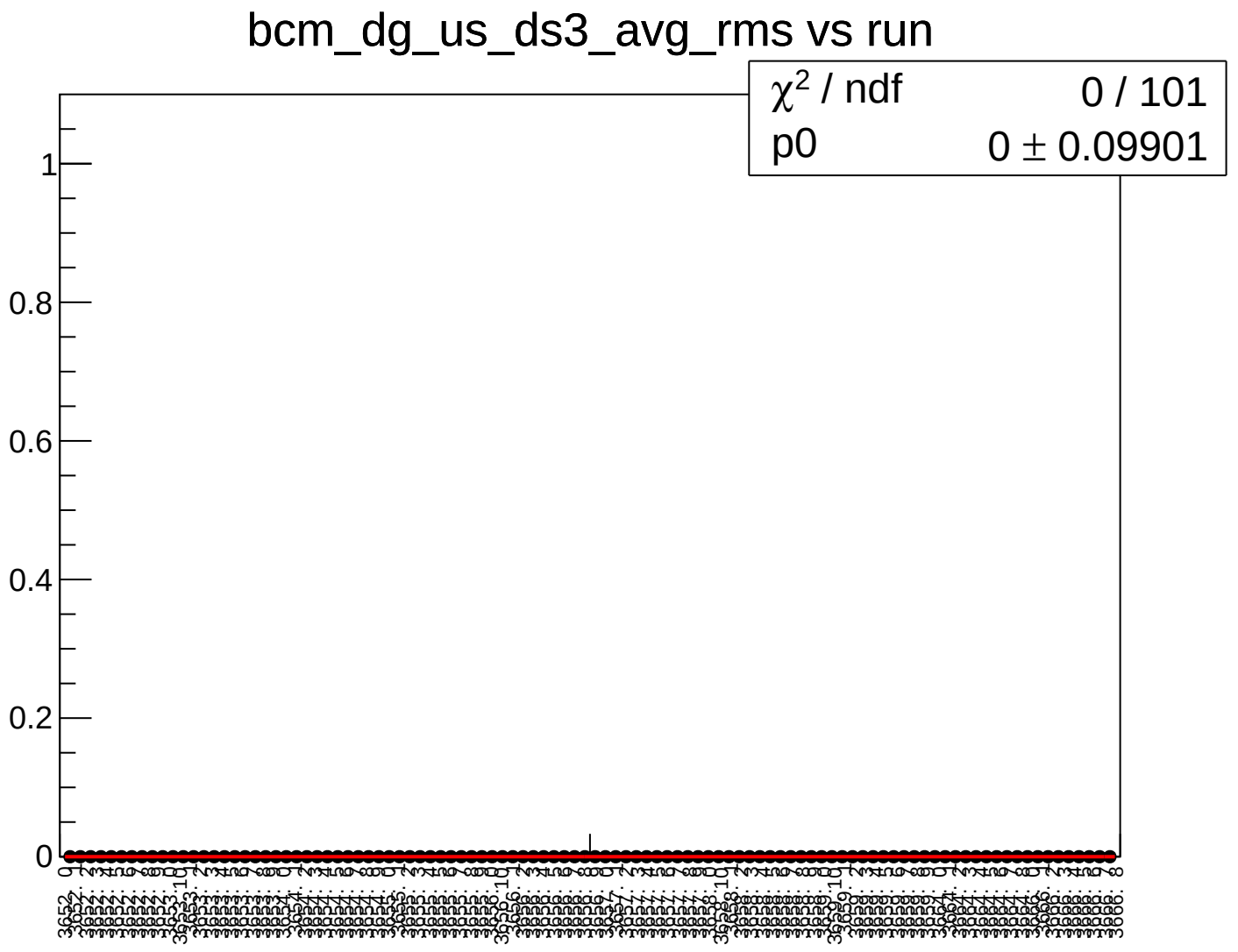

bcm_dg_us_ds_dd_mean vs run
χ² / ndf 108.6 / 101
p0 209.2 ± 290.4
15000
10000
5000
0
−5000
−10000
pull
Entries 102
Mean 1649
Std Dev 1578
4
3
2
1
0
−1
−2

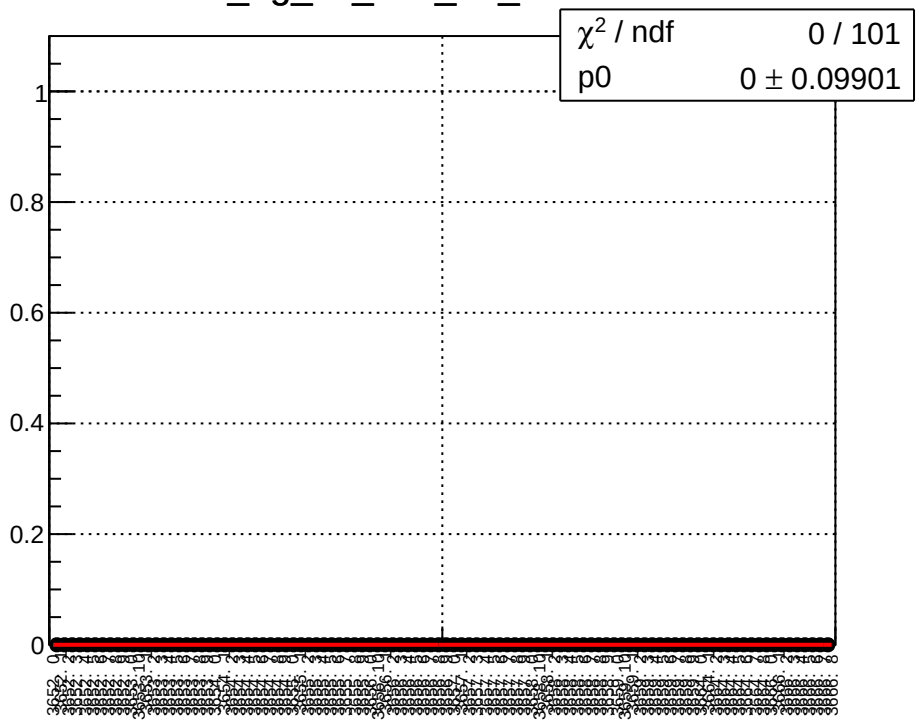

pull1D
Entries 102
Mean 0.001524
Std Dev 1.032
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

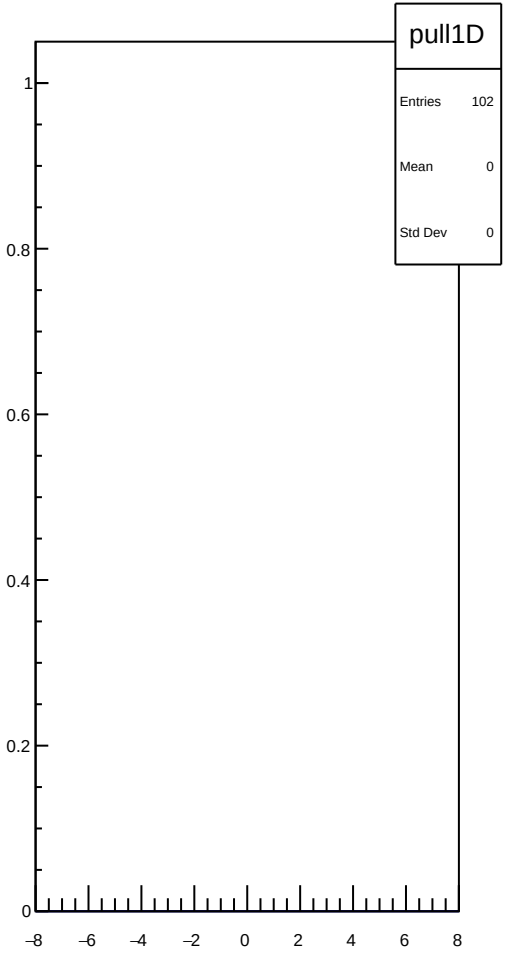

bcm_dg_us_ds_dd_rms vs run
χ² / ndf 865.4 / 101
p0 284.5 ± 0.2053
320
310
300
290
280
270

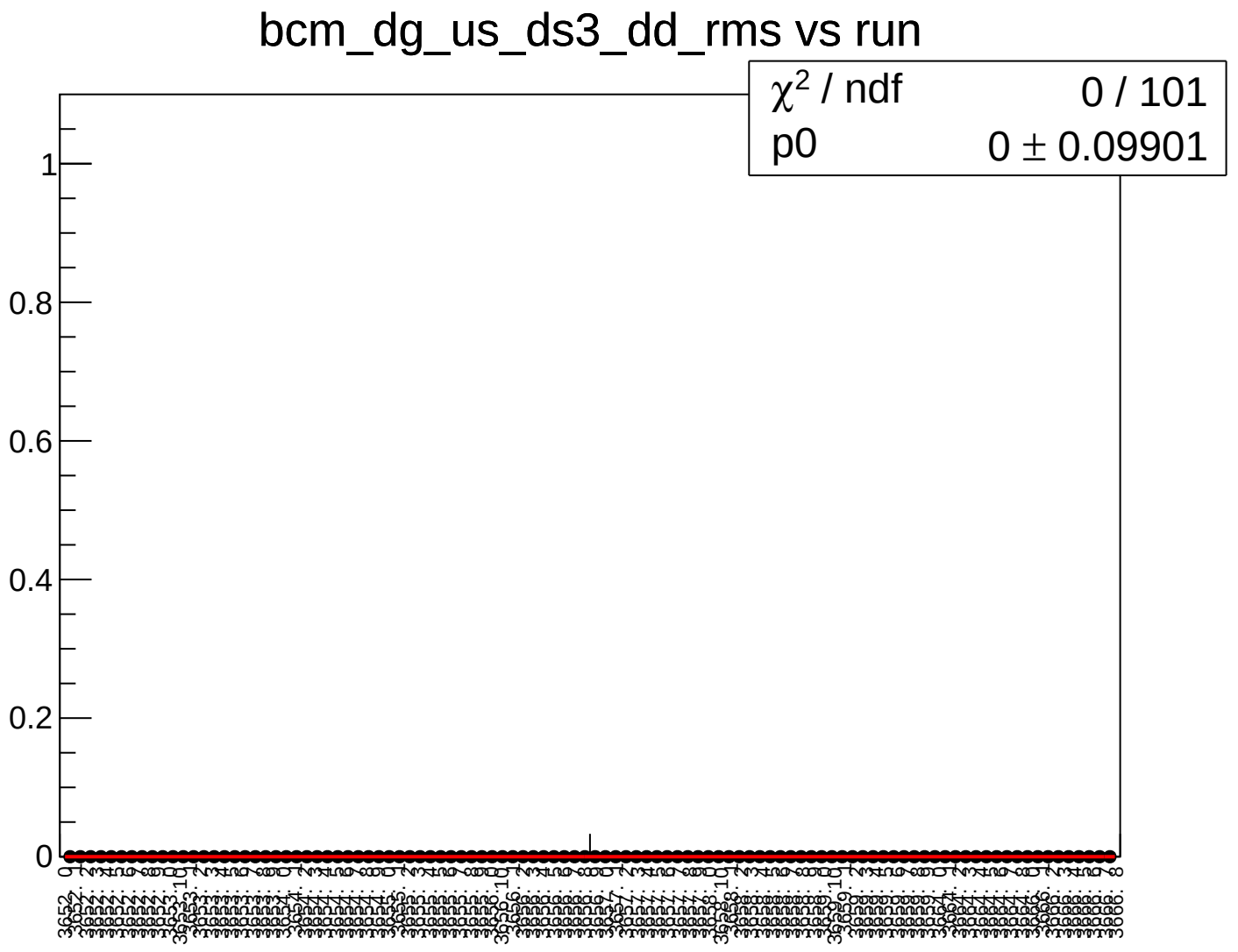

bcm_dg_us_ds3_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

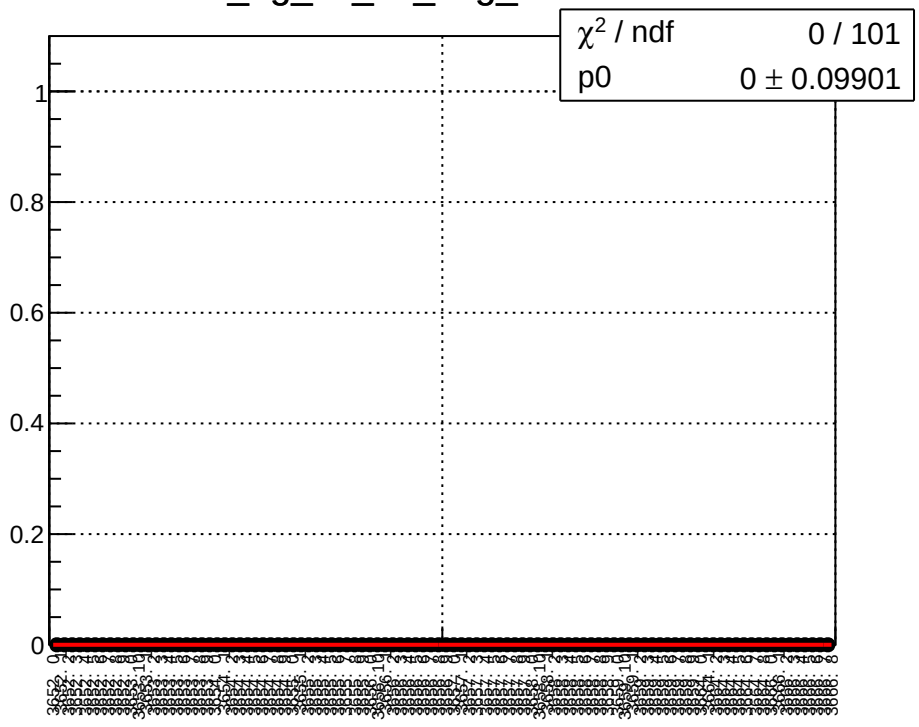

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

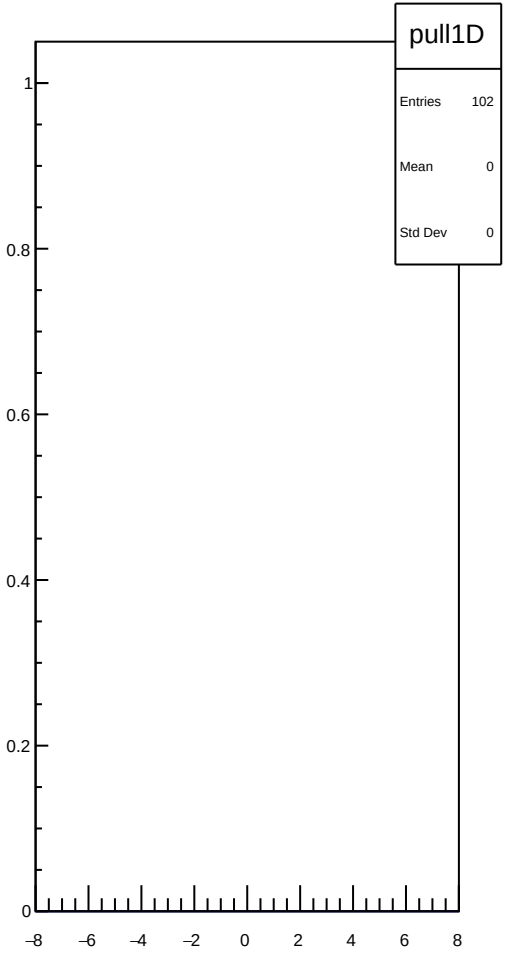

bcm_dg_us_ds3_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

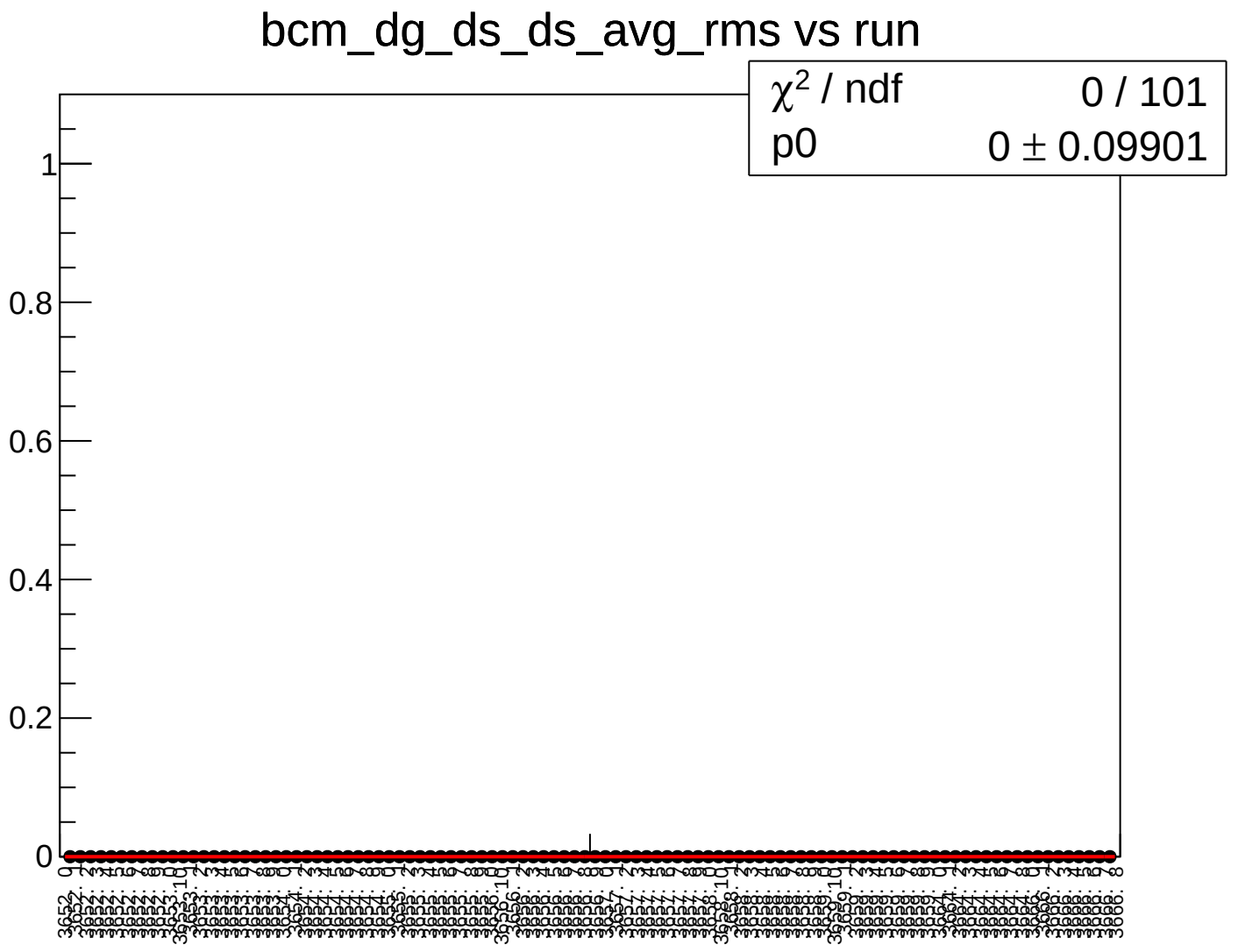

bcm_dg_us_ds3_dd_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

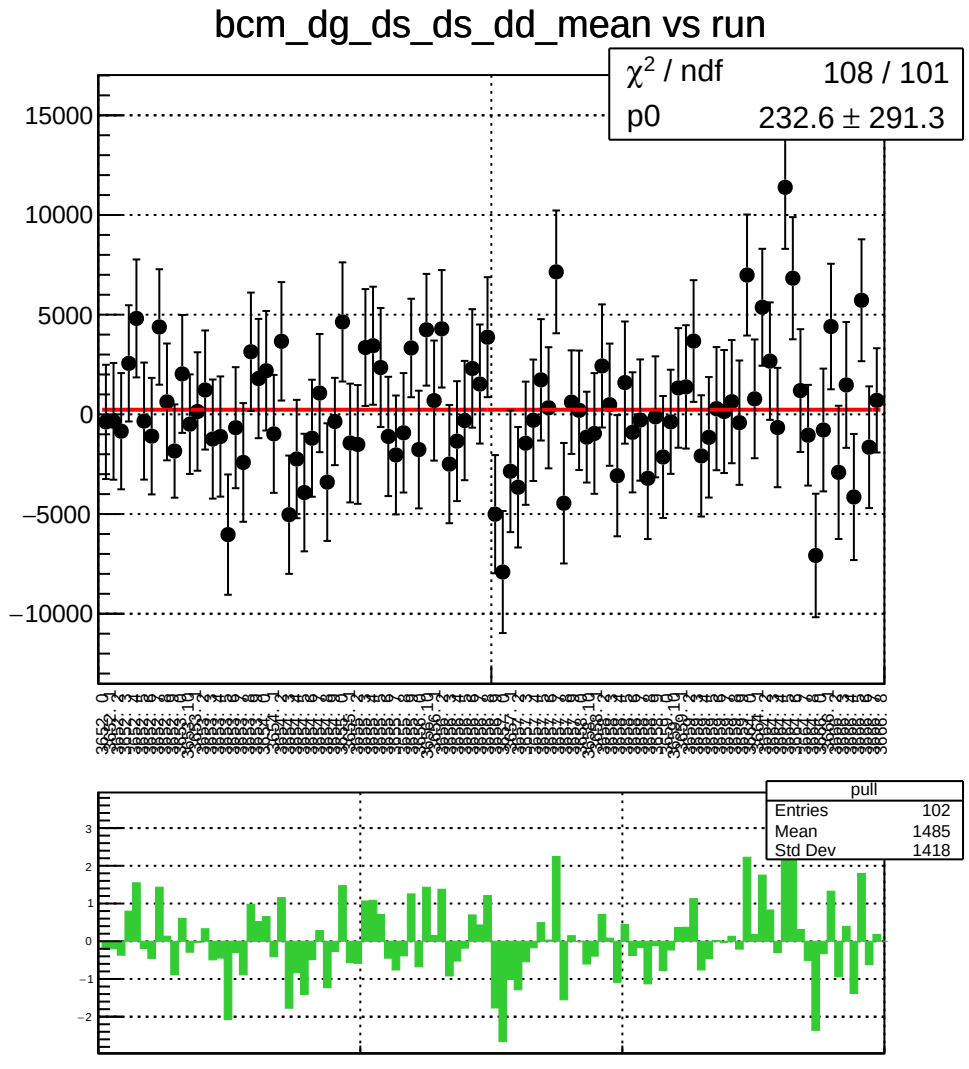

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

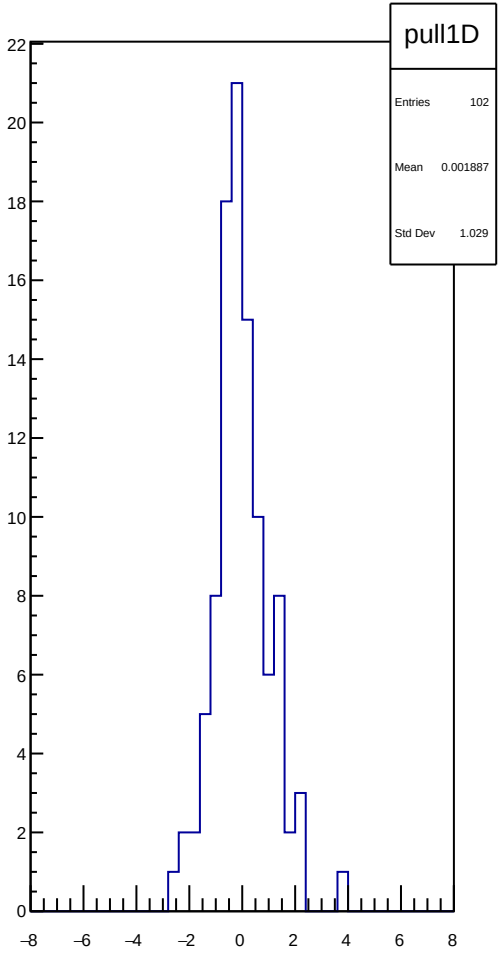

bcm_dg_us_ds3_dd_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

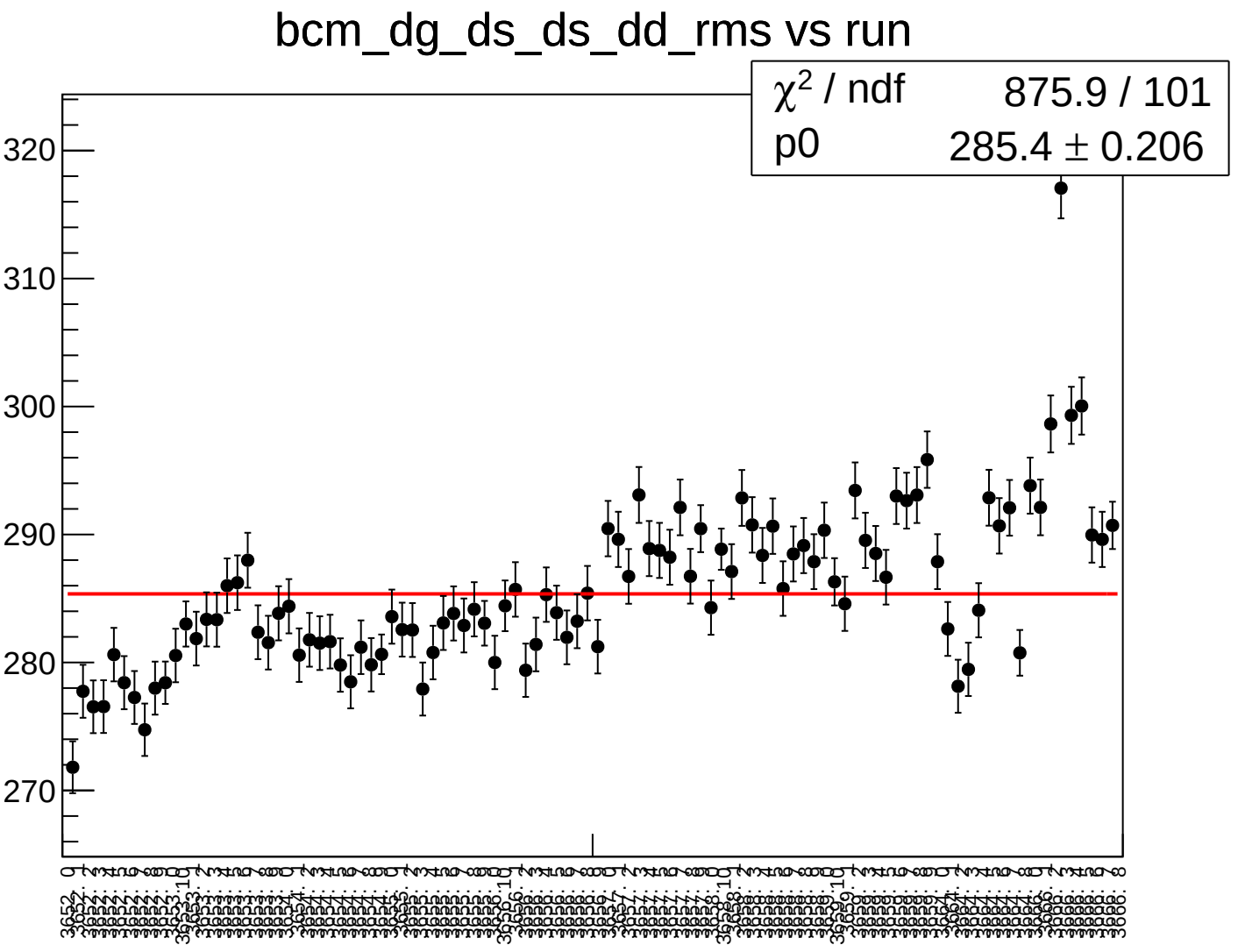

bcm_dg_ds_ds_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

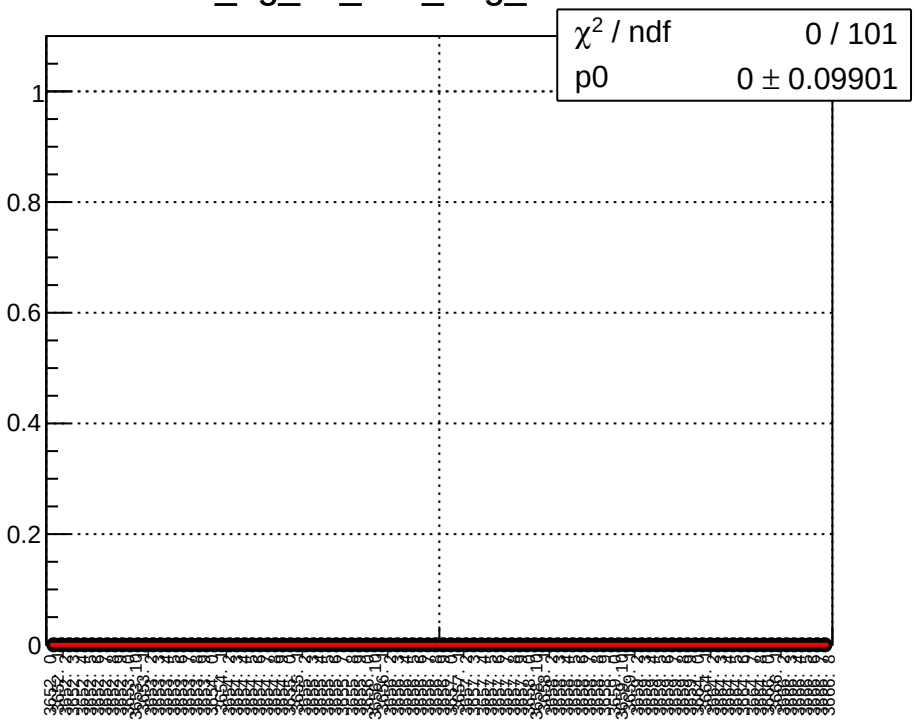

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

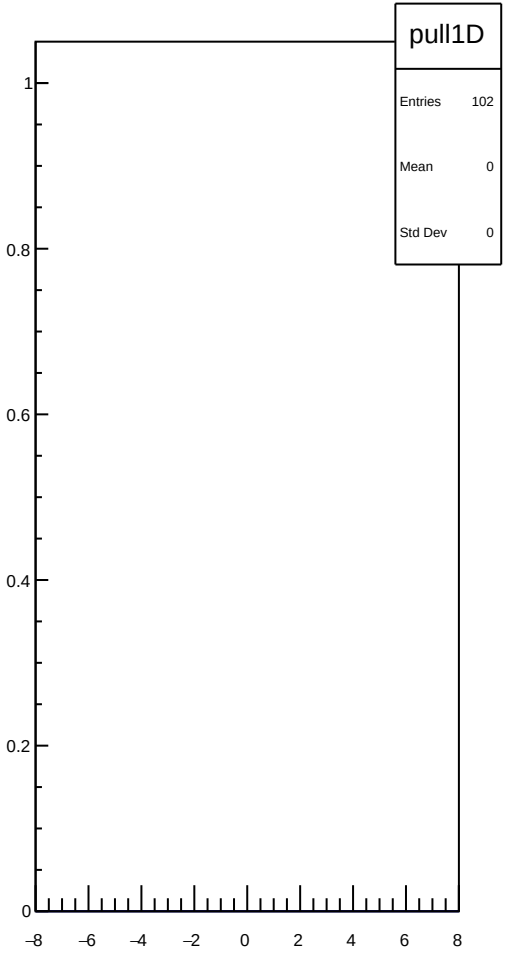

bcm_dg_ds_ds_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

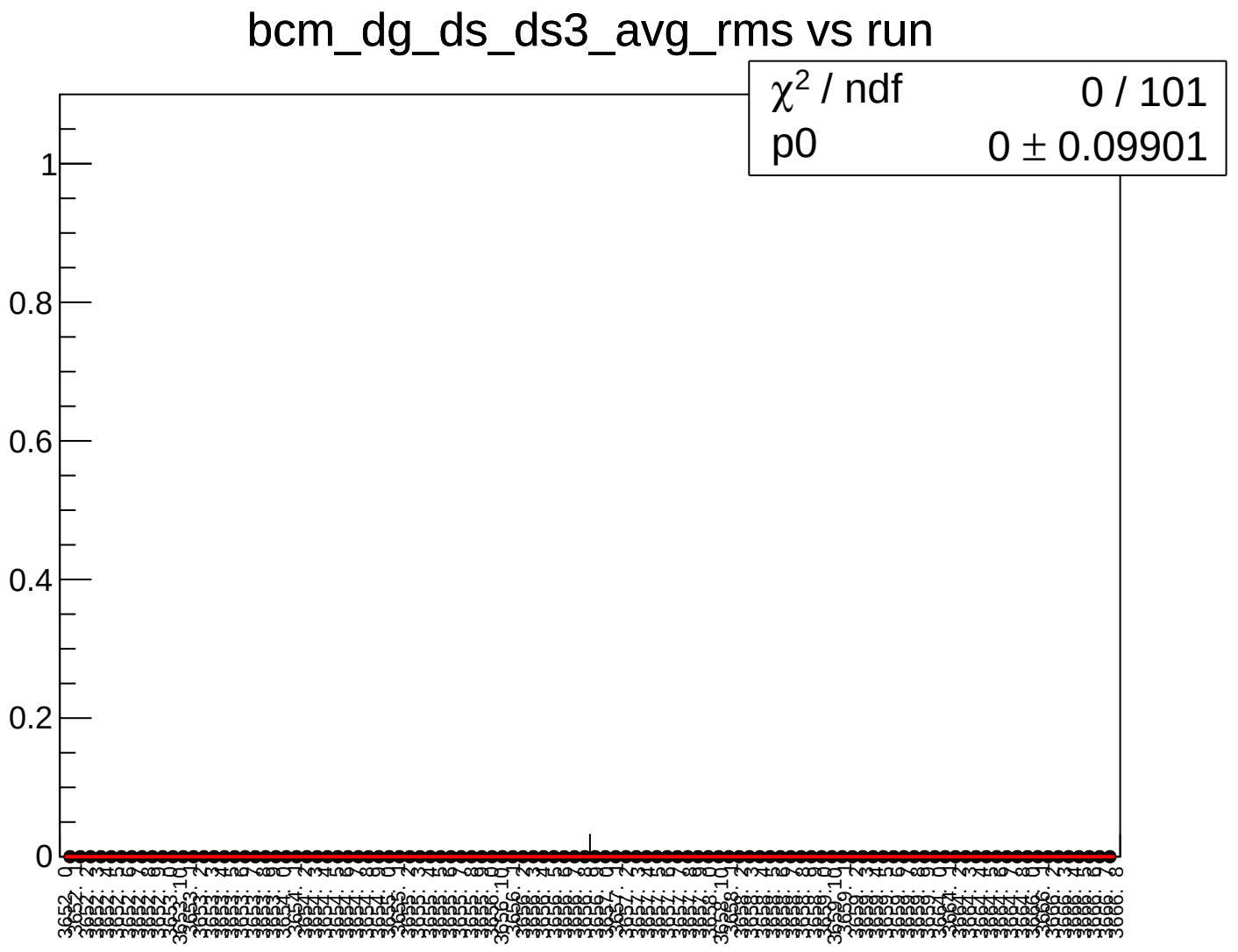

bcm_dg_ds_ds_dd_mean vs run
χ² / ndf 108 / 101
p0 232.6 ± 291.3
15000
10000
5000
0
−5000
−10000
pull
Entries 102
Mean 1485
Std Dev 1418
3
2
1
0
−1
−2

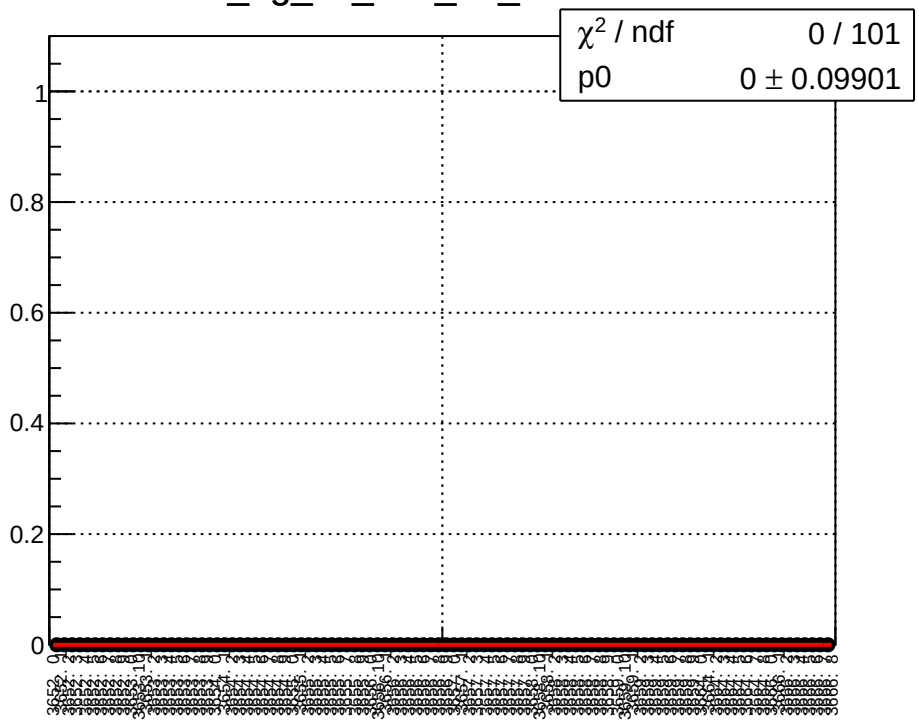

pull1D
Entries 102
Mean 0.001887
Std Dev 1.029
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

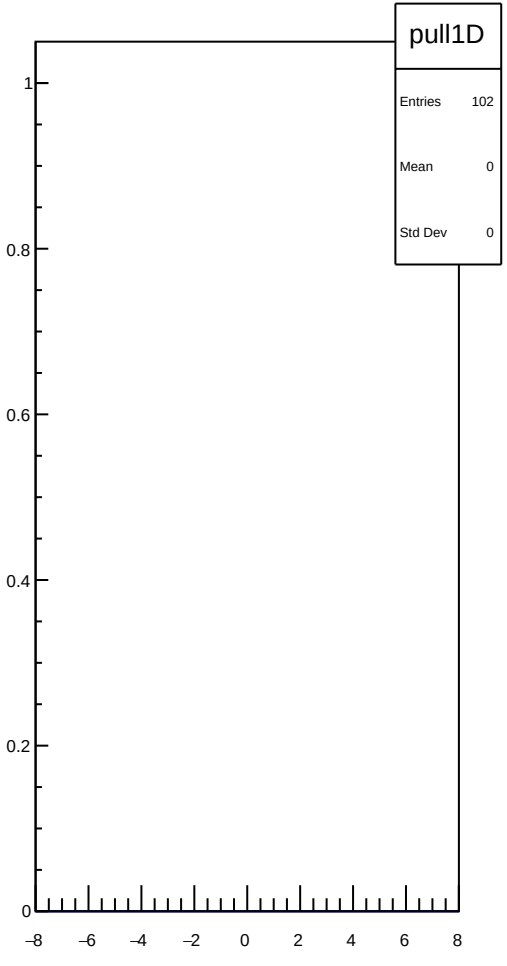

bcm_dg_ds_ds_dd_rms vs run
χ^2 / ndf 875.9 / 101
p0 285.4 ± 0.206
320
310
300
290
280
270

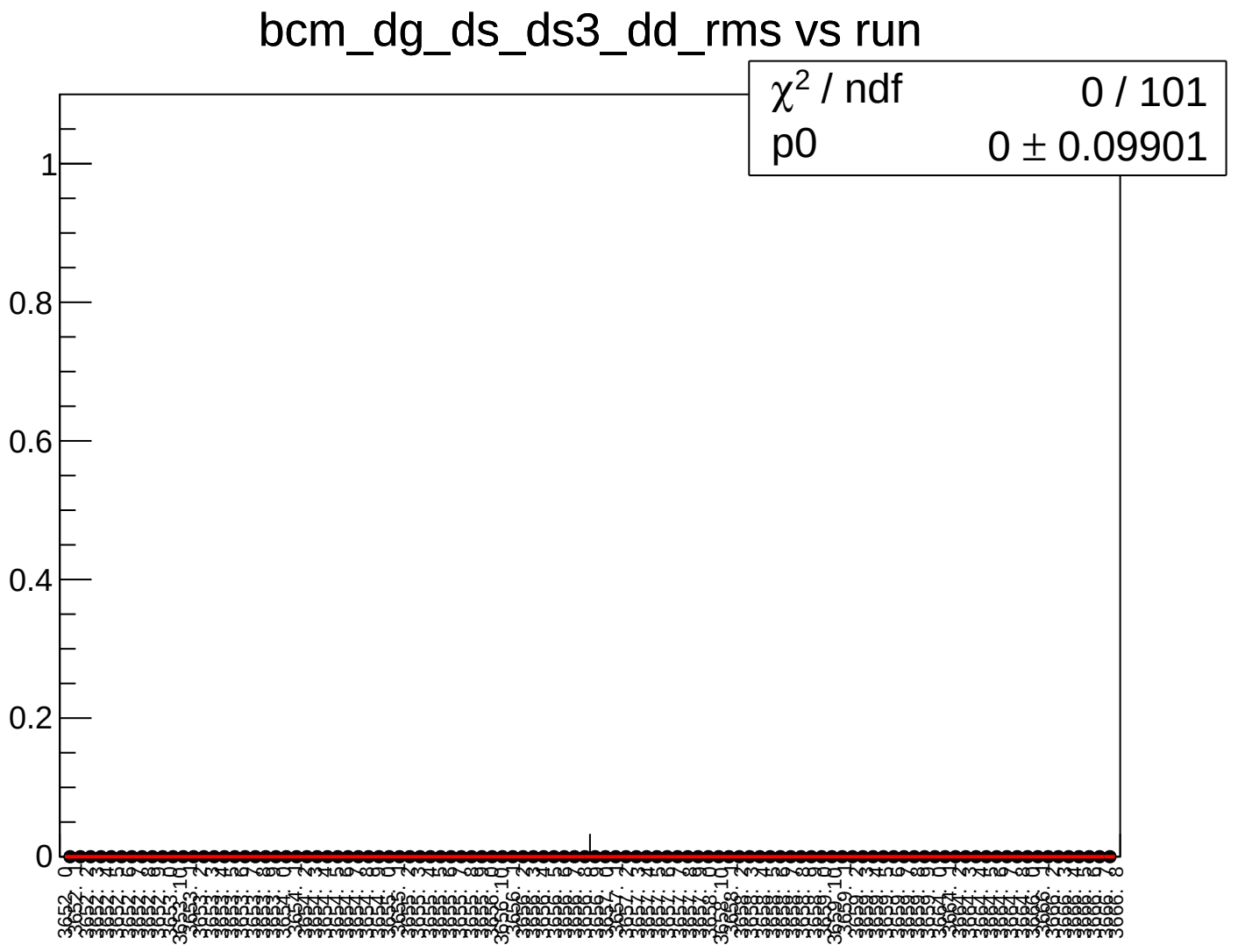

bcm_dg_ds_ds3_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

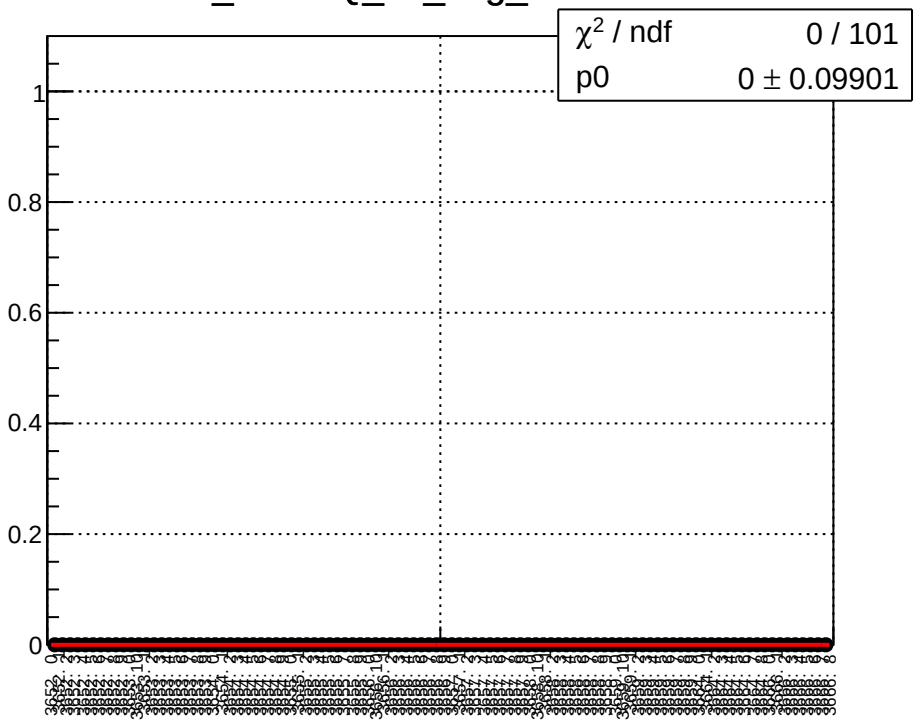

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

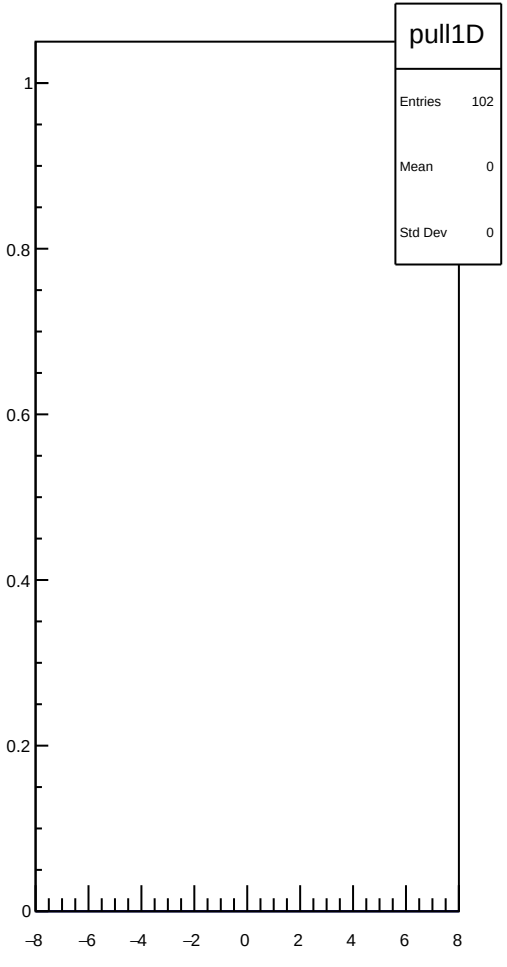

bcm_dg_ds_ds3_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

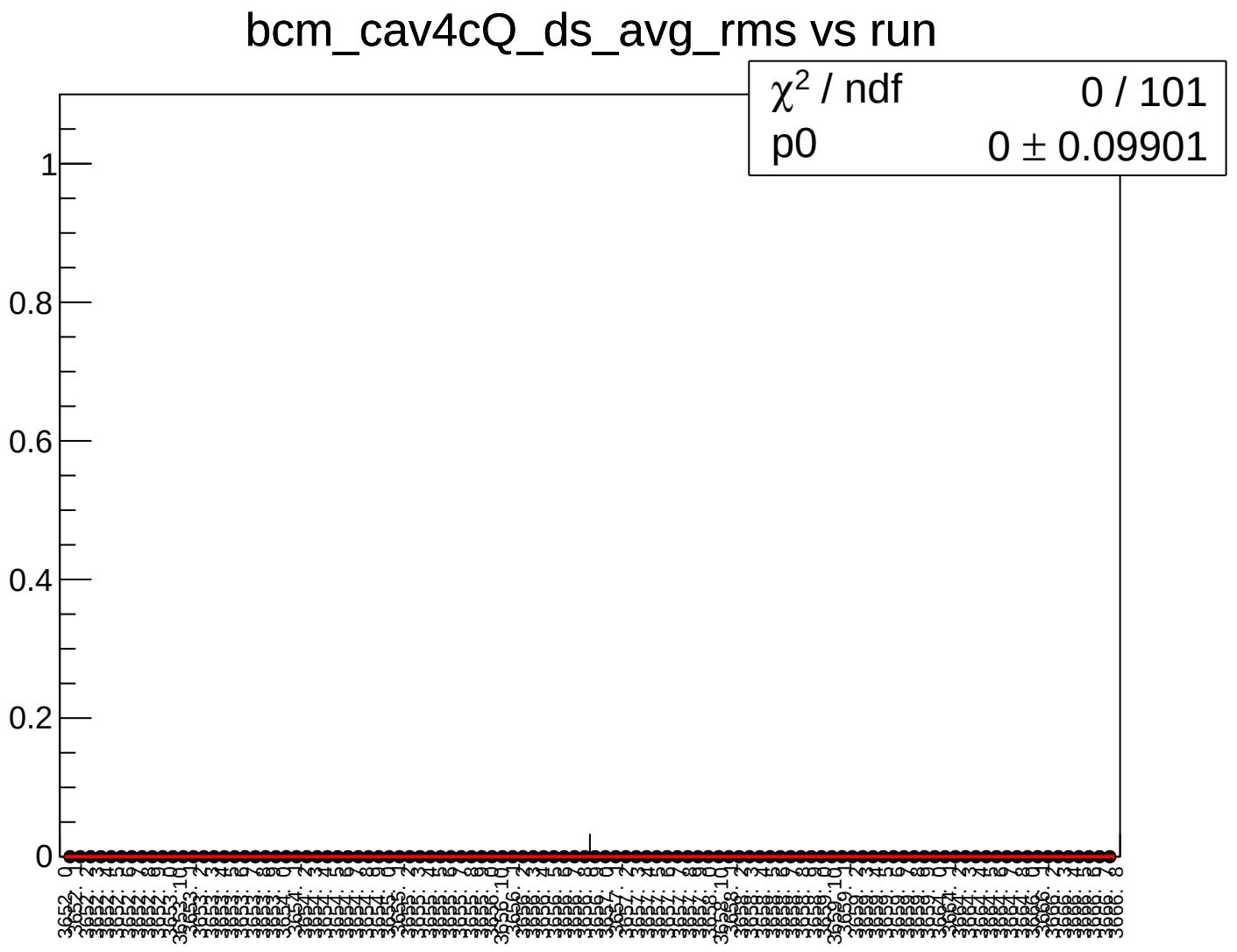

bcm_dg_ds_ds3_dd_mean vs run
χ^2 / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

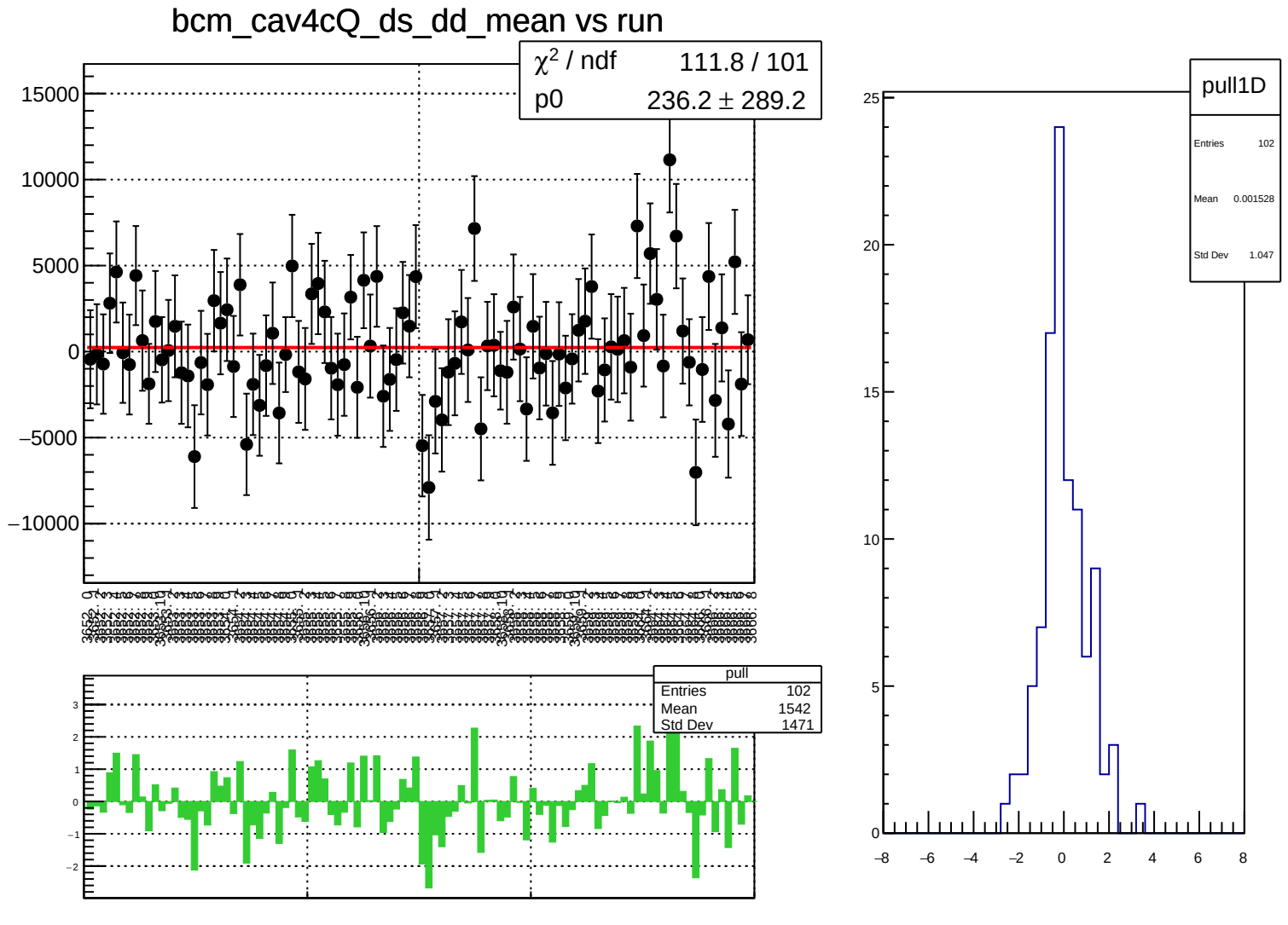

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

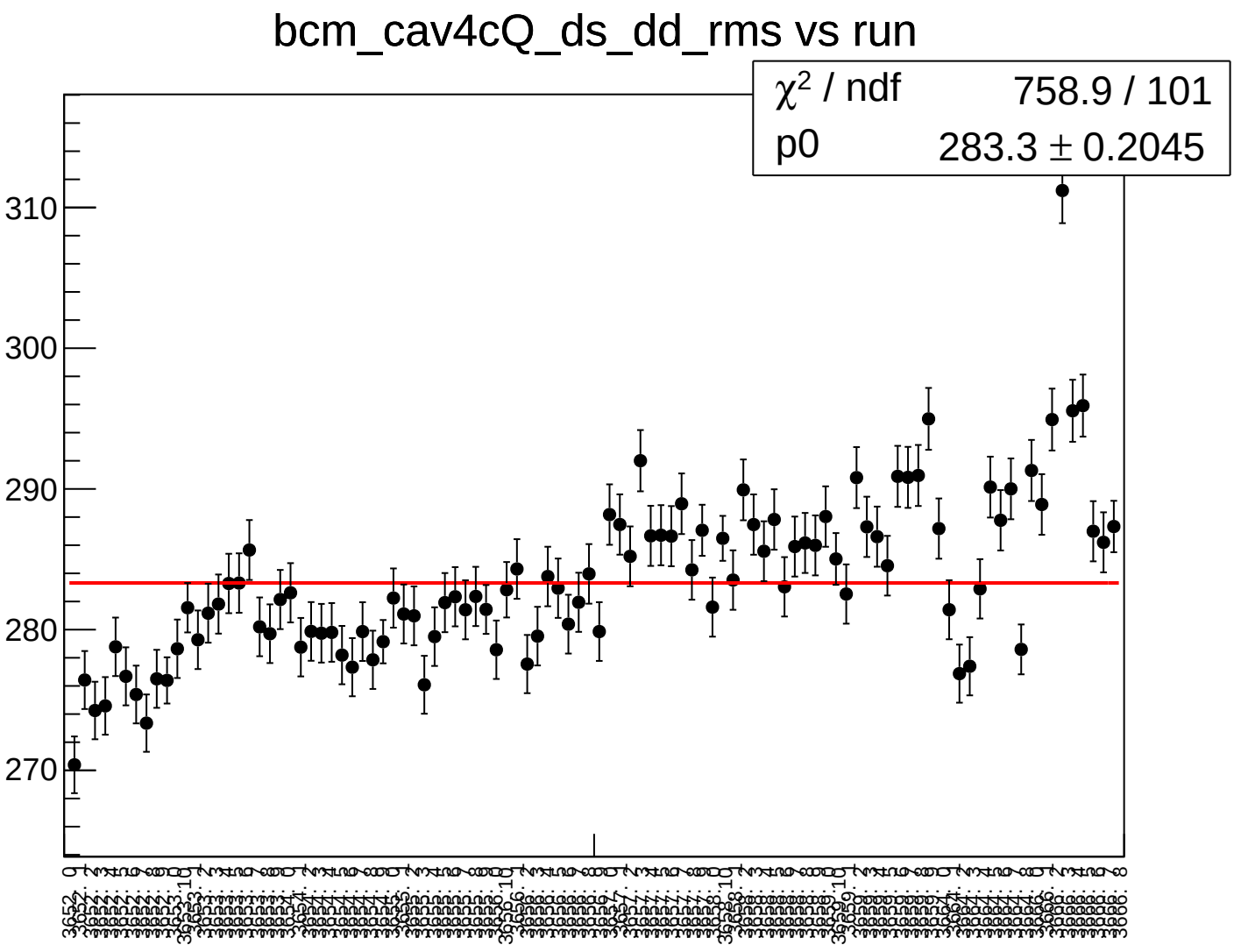

bcm_dg_ds_ds3_dd_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

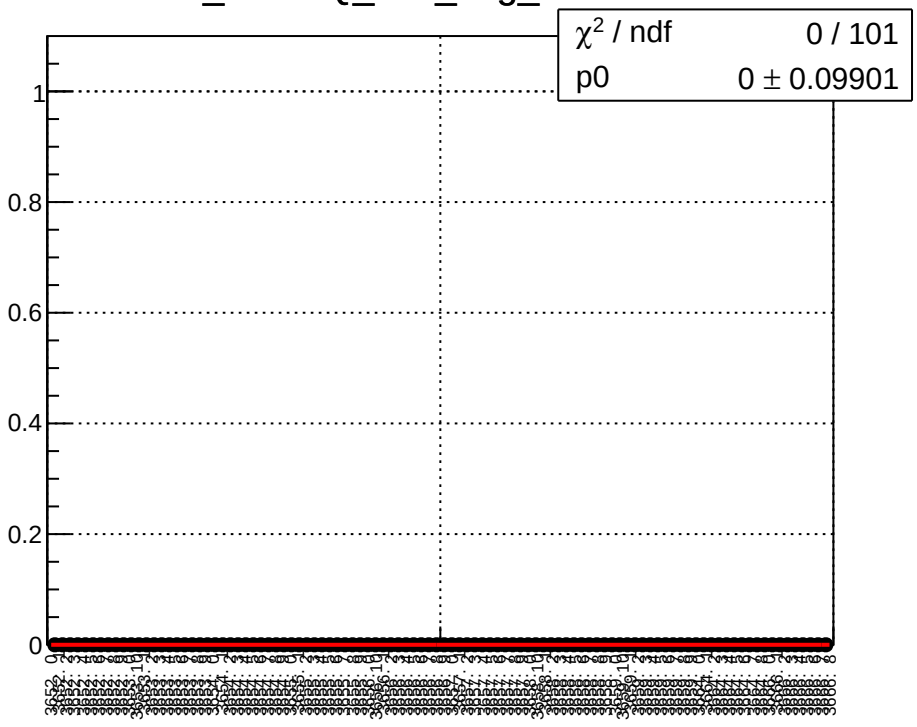

bcm_cav4cQ_ds_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

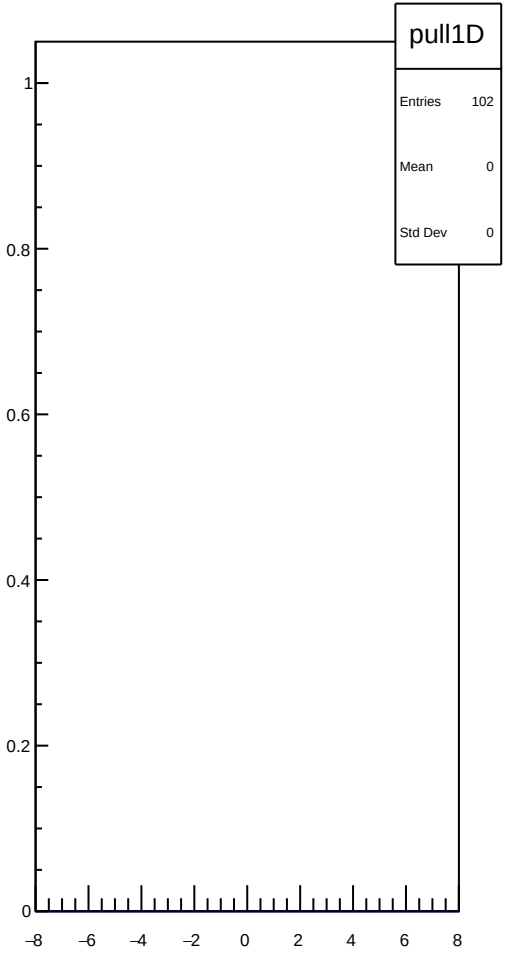

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

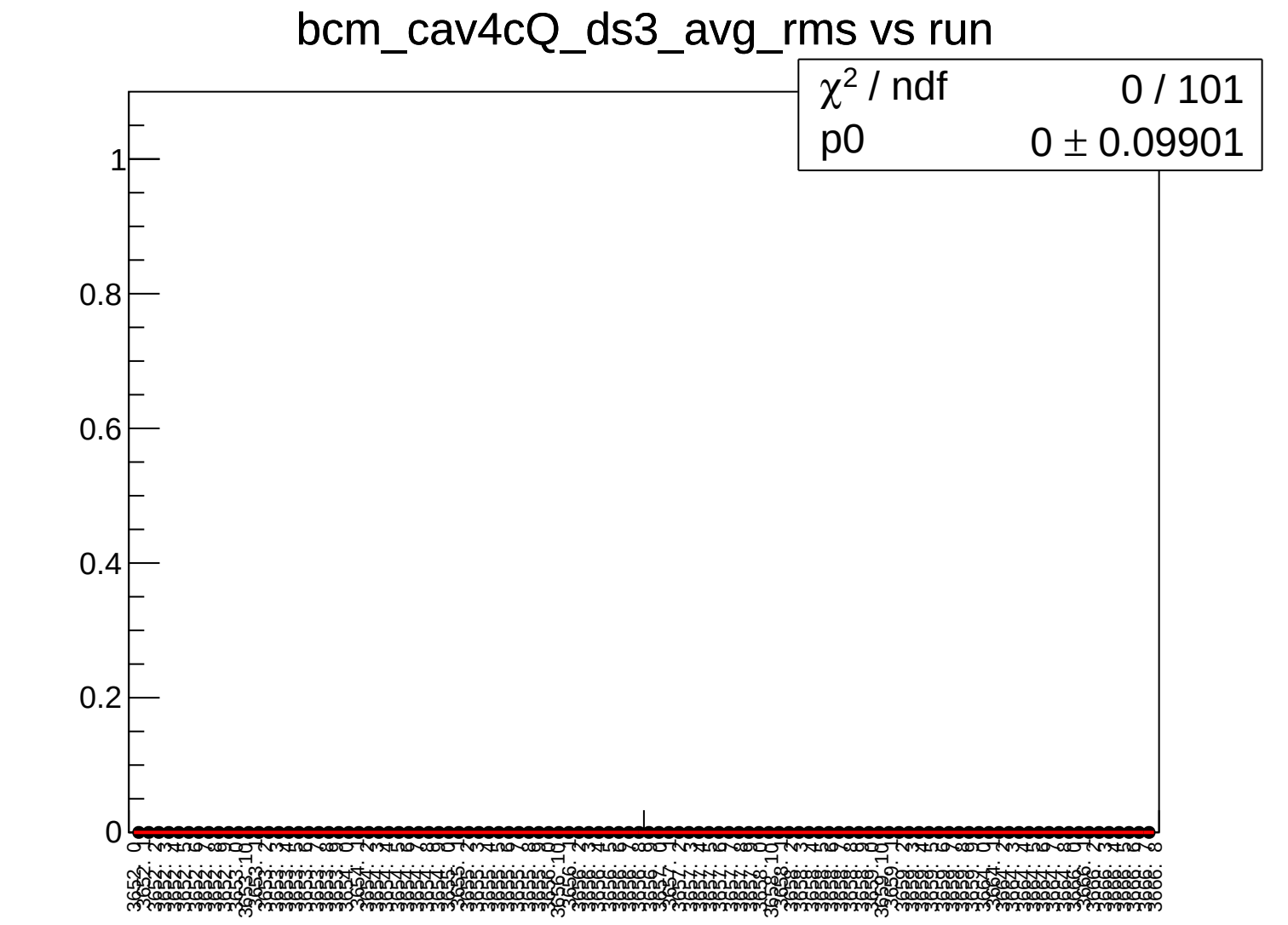

bcm_cav4cQ_ds_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

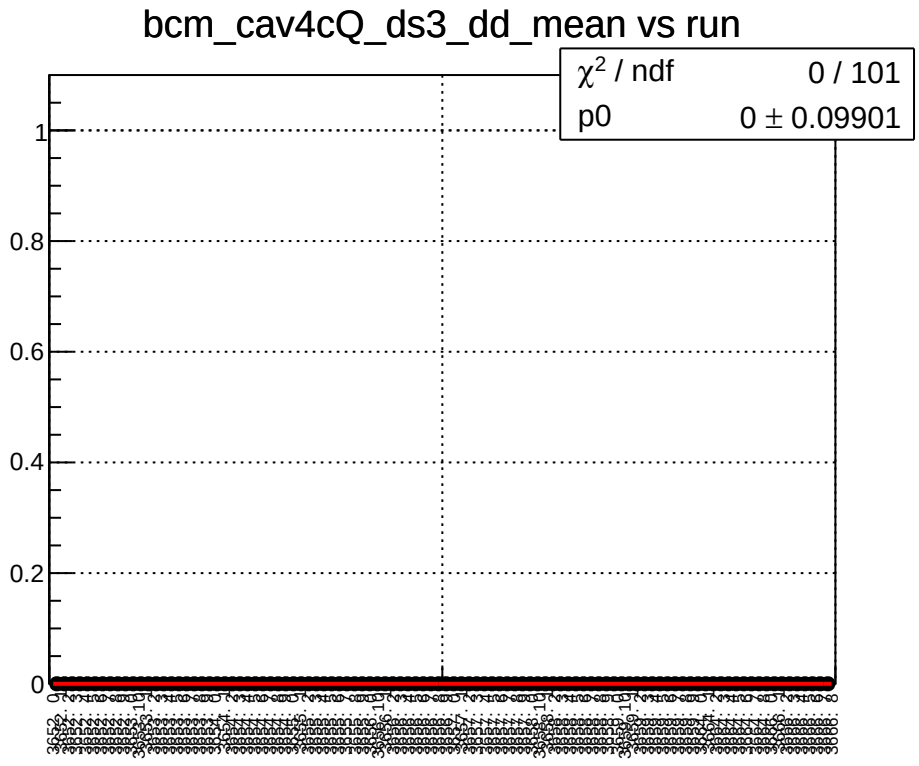

bcm_cav4cQ_ds_dd_mean vs run
χ² / ndf 111.8 / 101
p0 236.2 ± 289.2
15000
10000
5000
0
−5000
−10000
pull
Entries 102
Mean 1542
Std Dev 1471
3
2
1
0
−1
−2
pull1D
Entries 102
Mean 0.001528
Std Dev 1.047
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

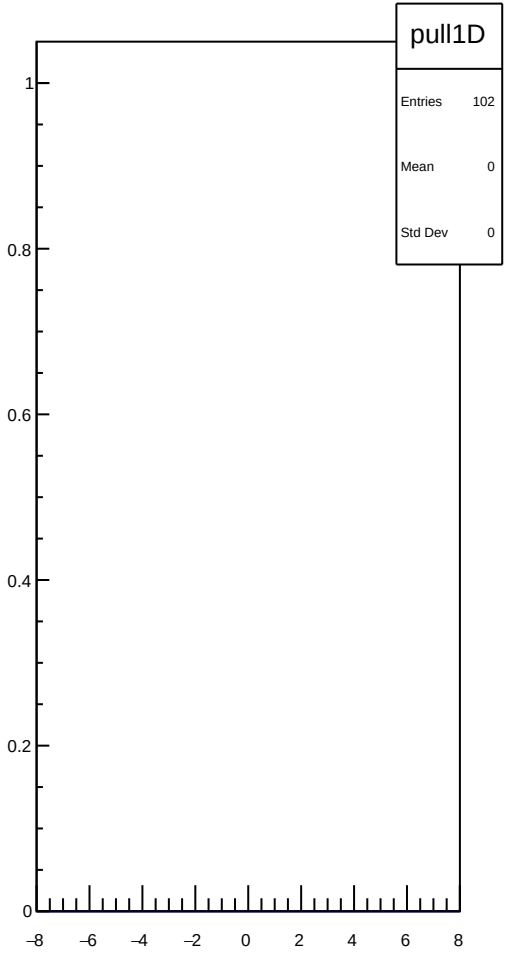

bcm_cav4cQ_ds_dd_rms vs run
χ² / ndf 758.9 / 101
p0 283.3 ± 0.2045
310
300
290
280
270

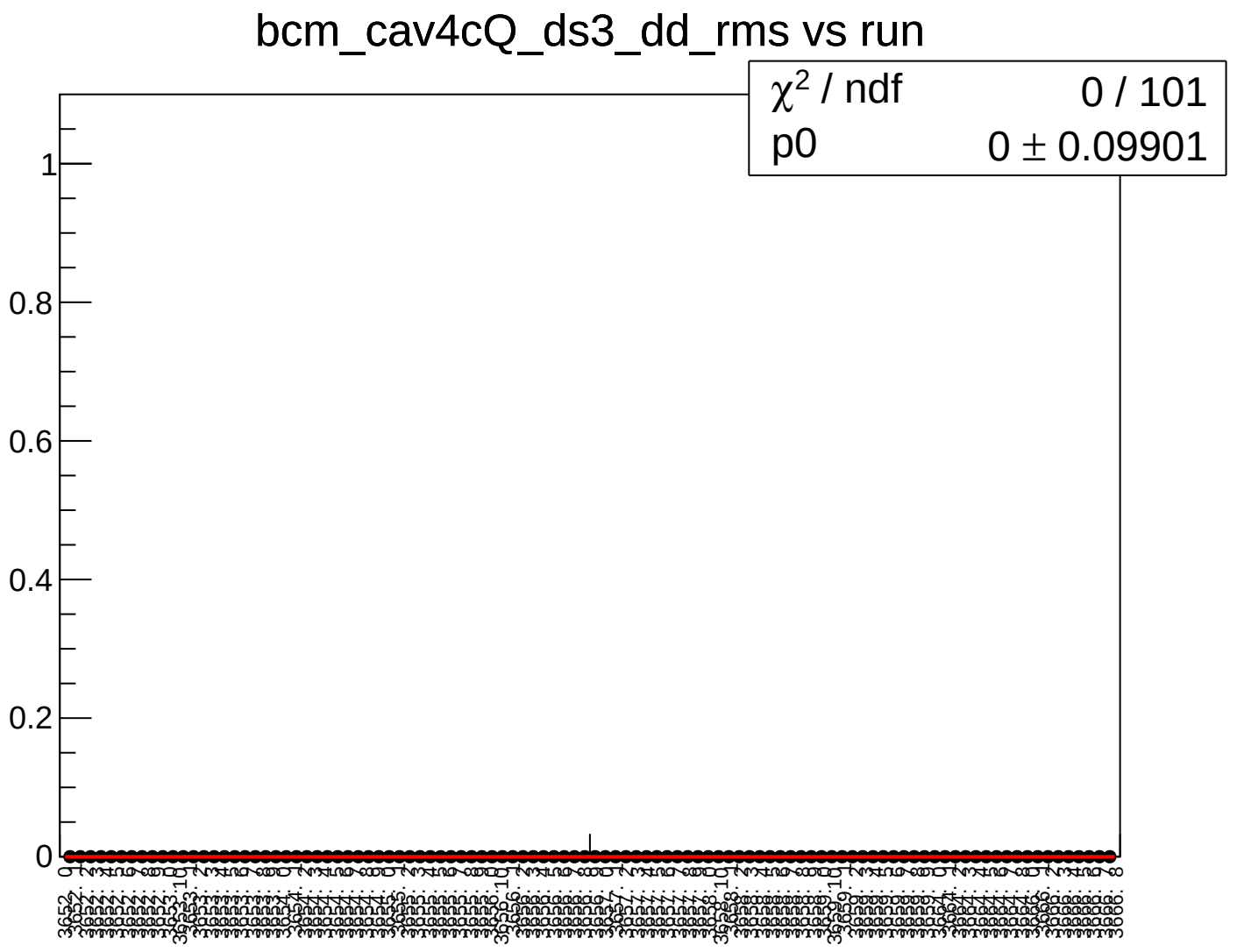

bcm_cav4cQ_ds3_avg_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

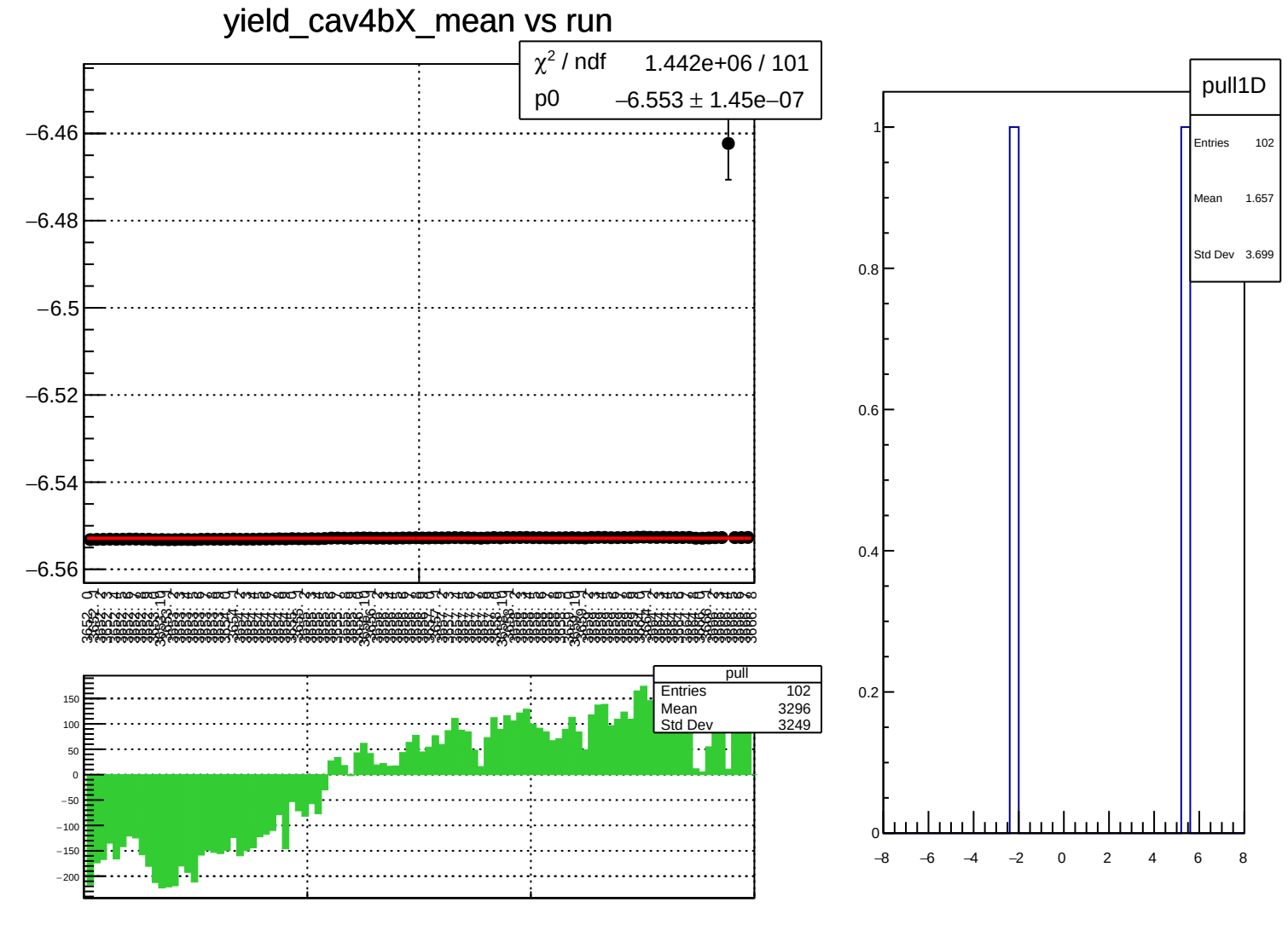

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

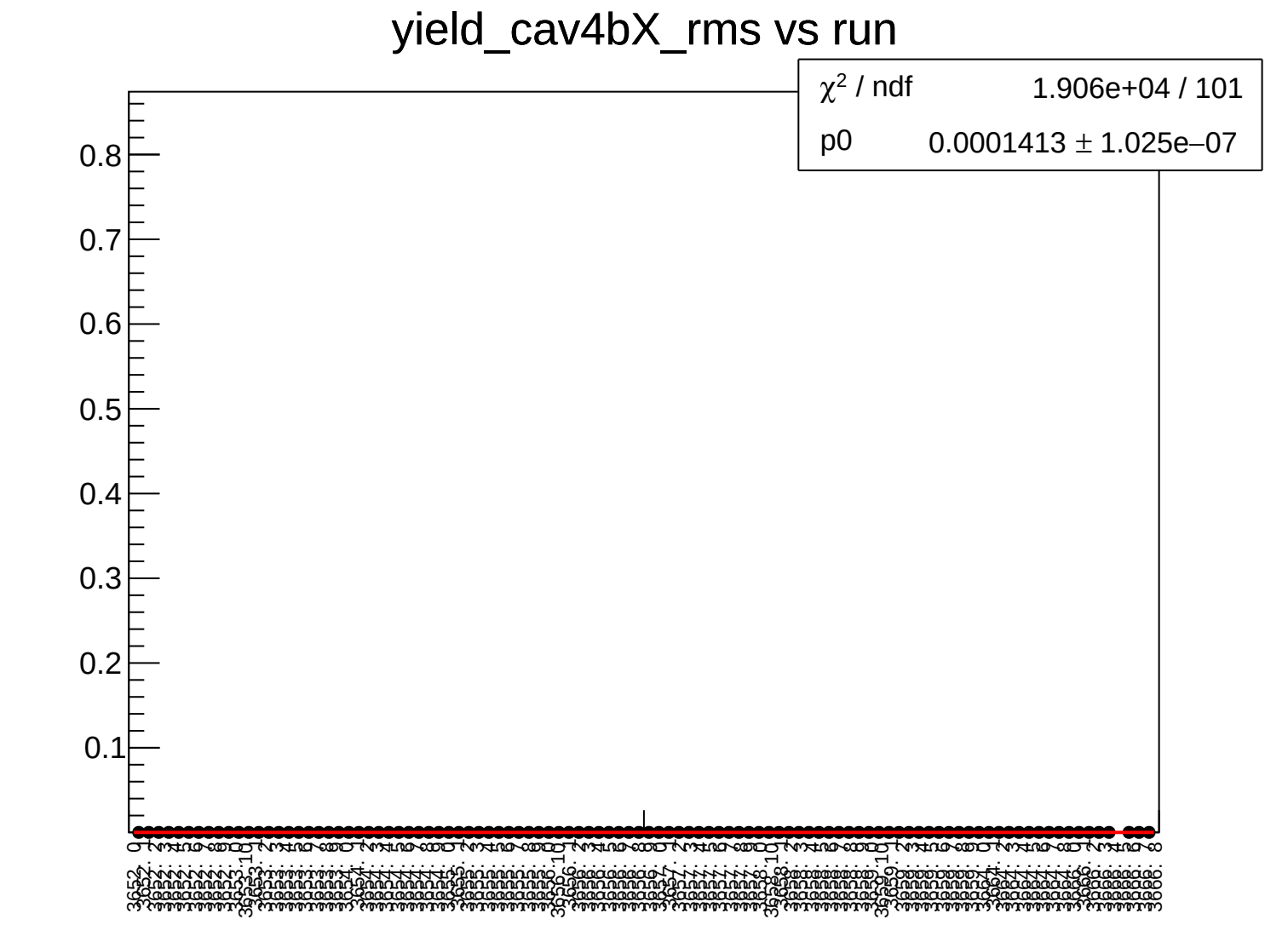

bcm_cav4cQ_ds3_avg_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

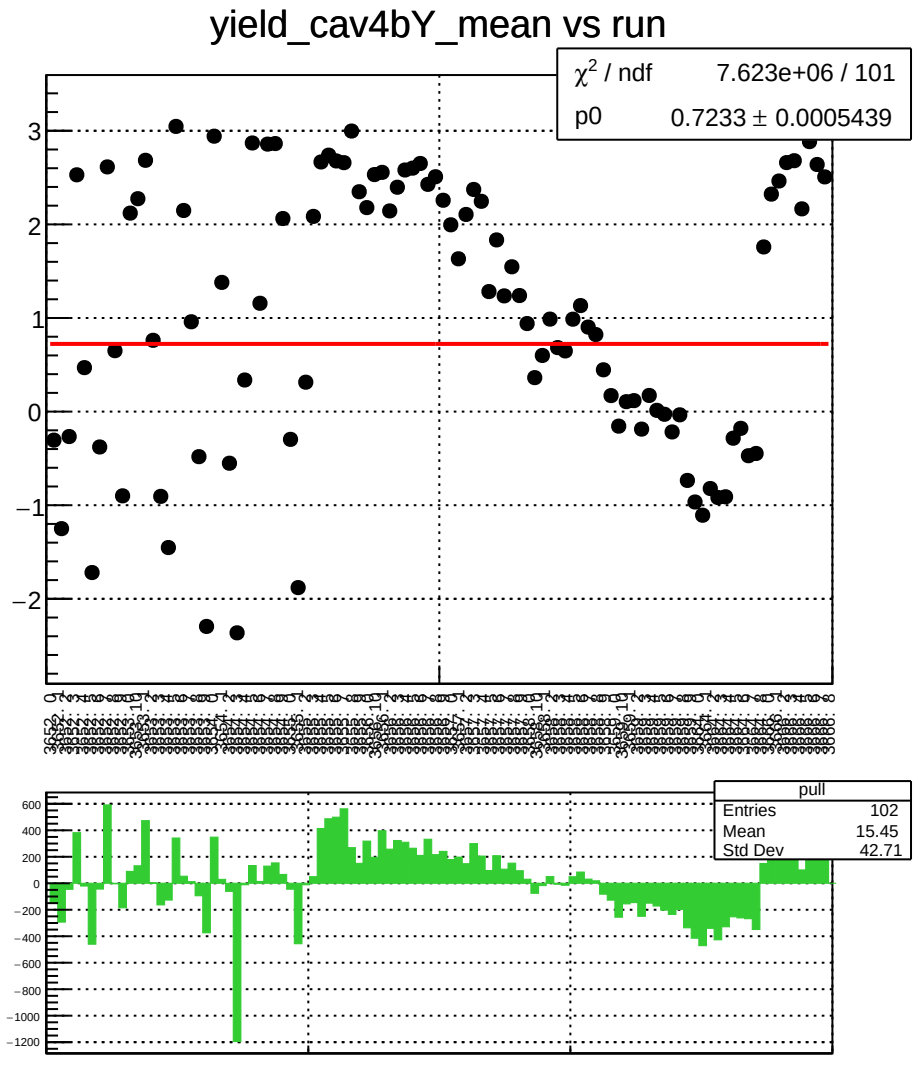

bcm_cav4cQ_ds3_dd_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

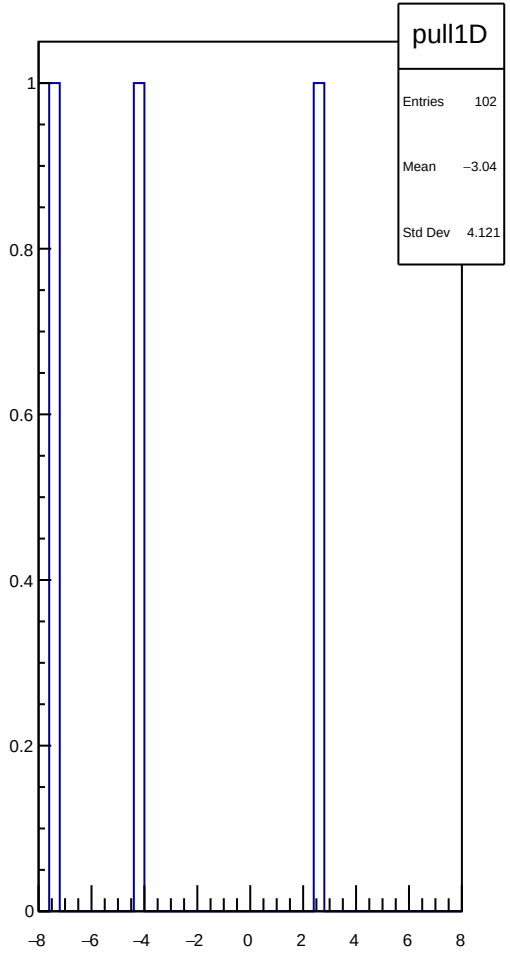

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

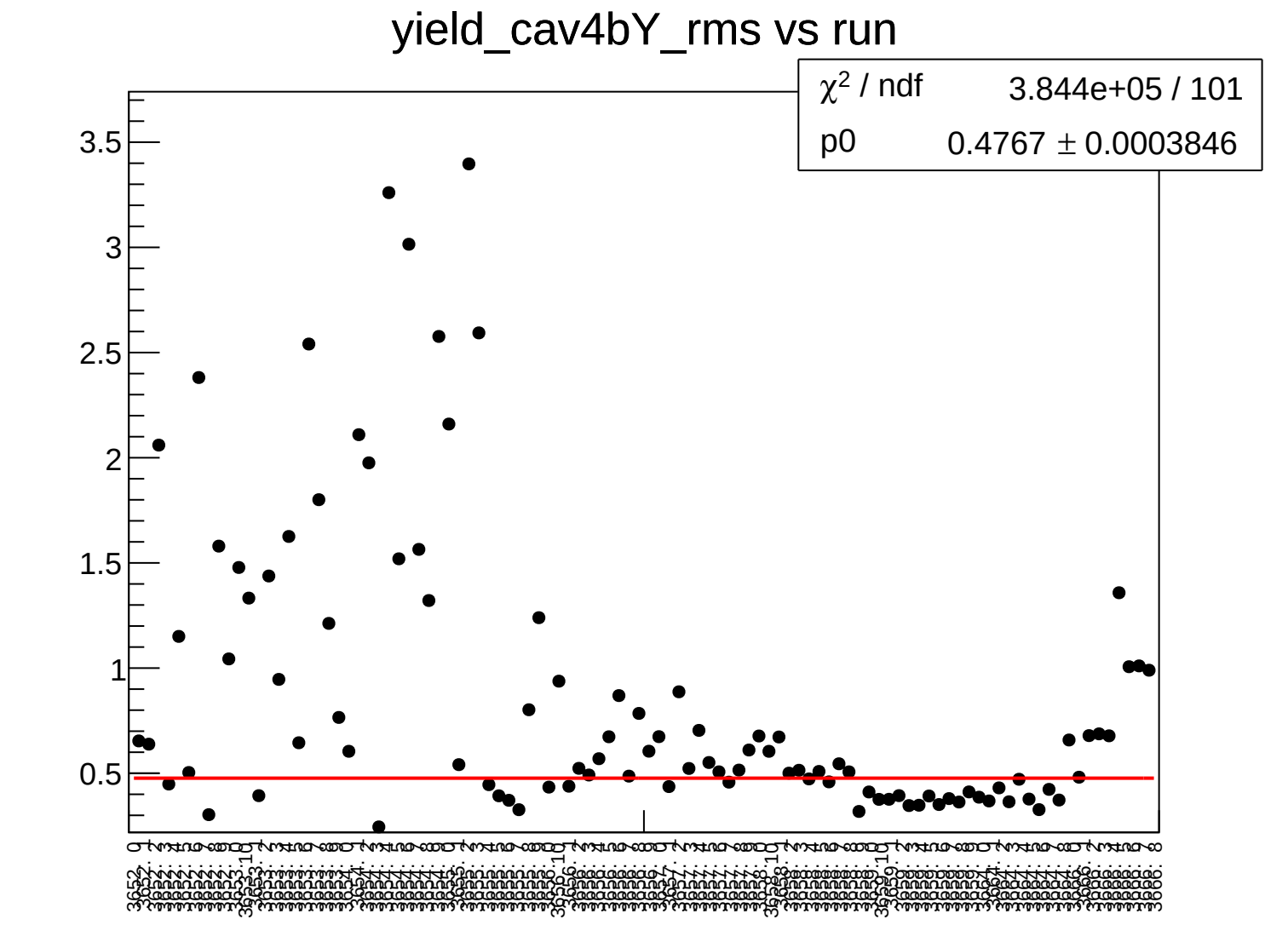

bcm_cav4cQ_ds3_dd_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

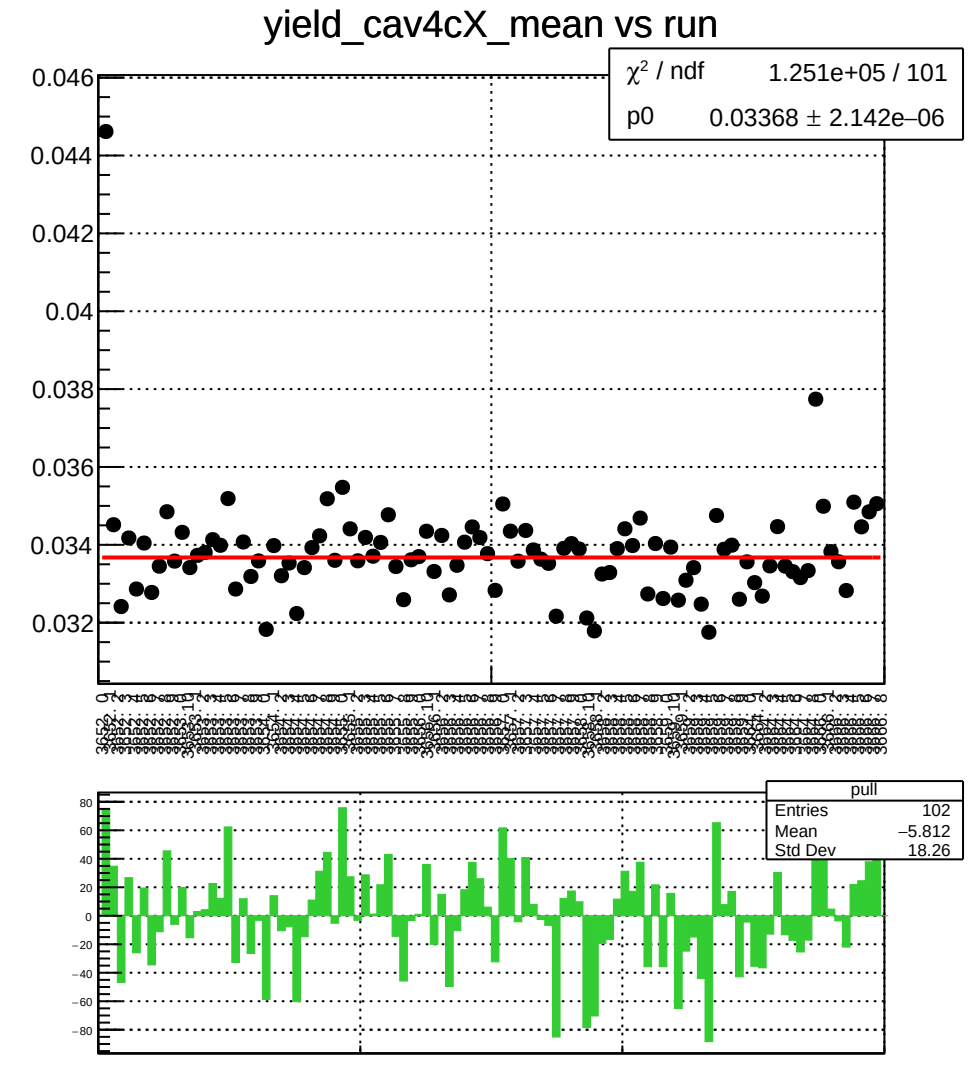

yield_cav4bX_mean vs run
χ² / ndf 1.442e+06 / 101
p0 −6.553 ± 1.45e−07
−6.46
−6.48
−6.5
−6.52
−6.54
−6.56
pull
Entries 102
Mean 3296
Std Dev 3249
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 102
Mean 1.657
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

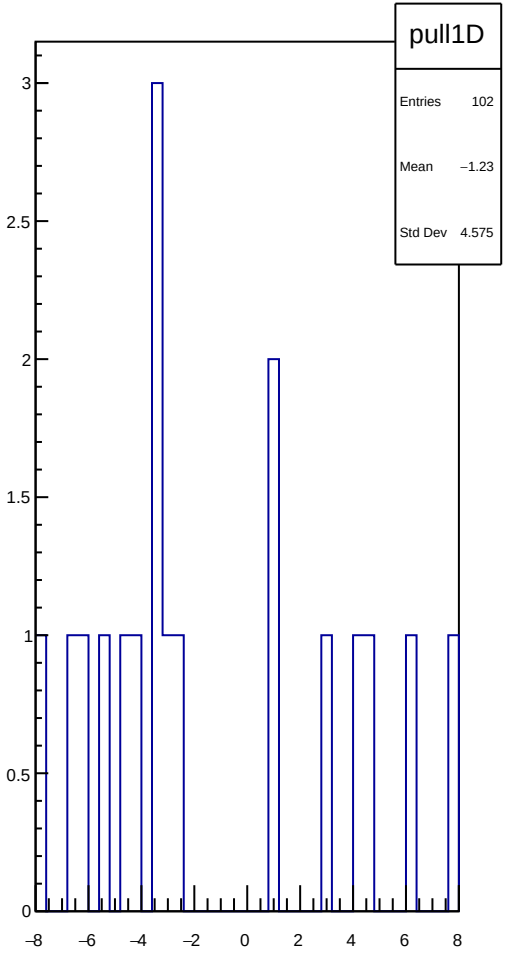

yield_cav4bX_rms vs run
χ² / ndf 1.906e+04 / 101
p0 0.0001413 ± 1.025e−07
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

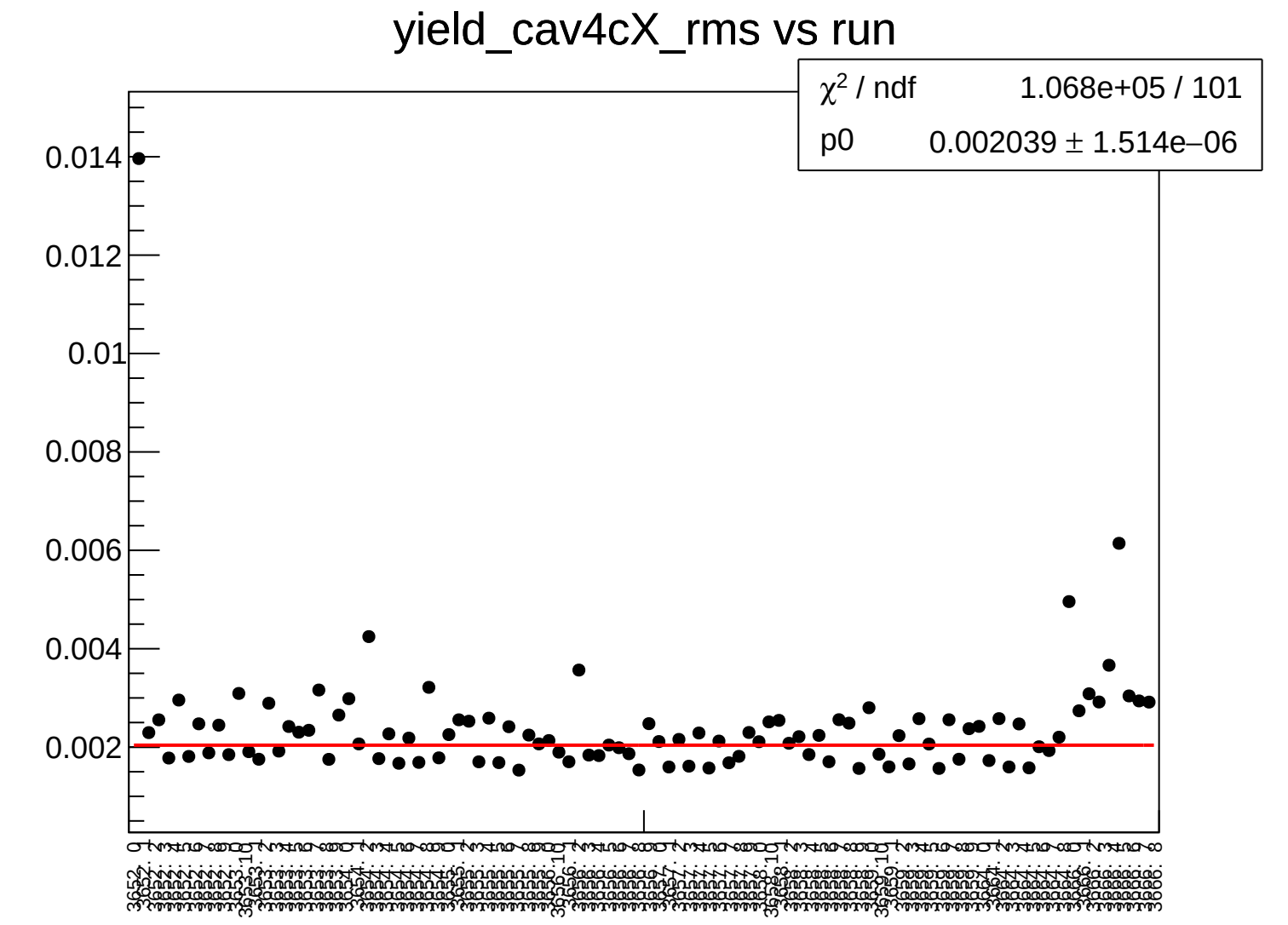

yield_cav4bY_mean vs run
χ² / ndf 7.623e+06 / 101
p0 0.7233 ± 0.0005439
pull
Entries 102
Mean 15.45
Std Dev 42.71

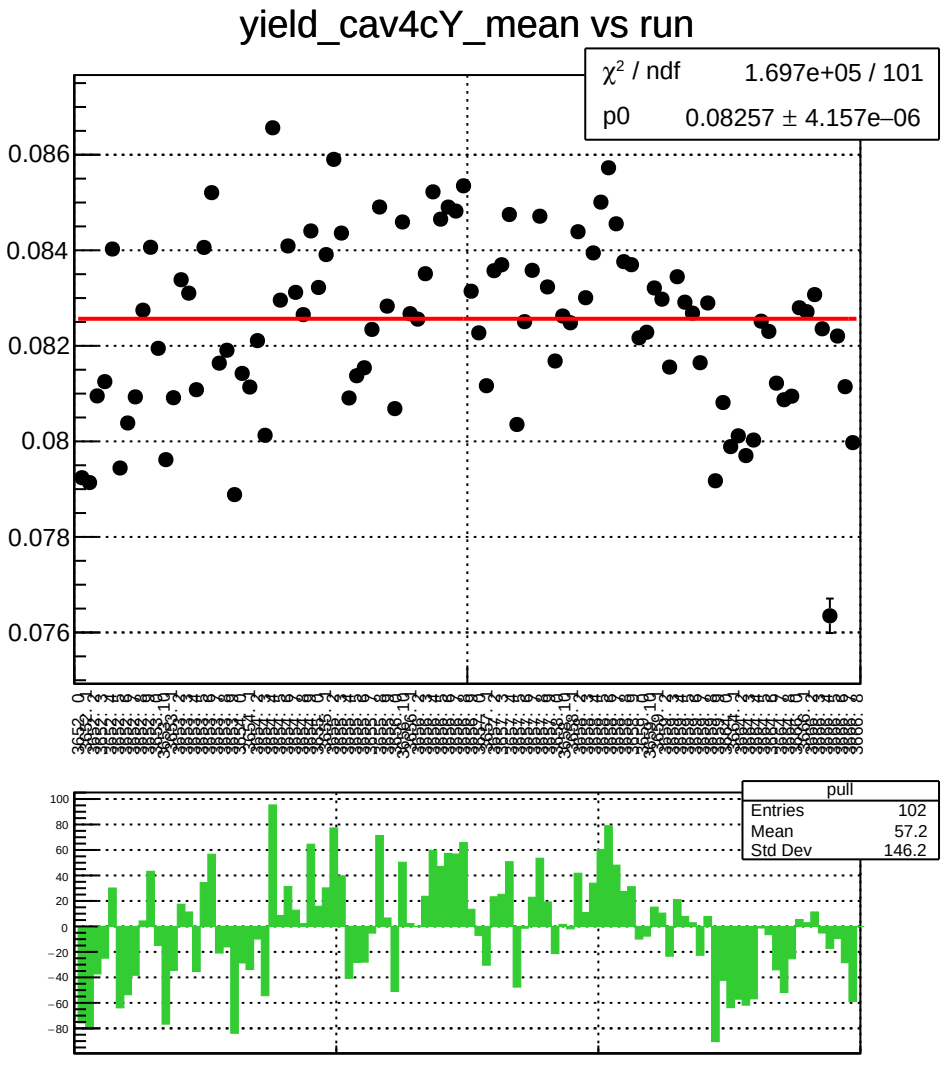

pull1D
Entries 102
Mean −3.04
Std Dev 4.121

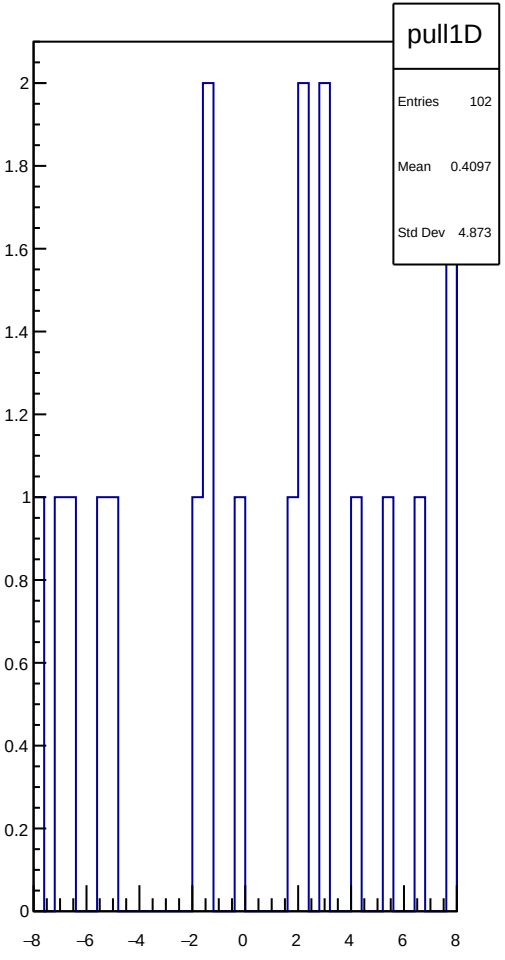

yield_cav4bY_rms vs run
χ² / ndf 3.844e+05 / 101
p0 0.4767 ± 0.0003846
3.5
3
2.5
2
1.5
1
0.5

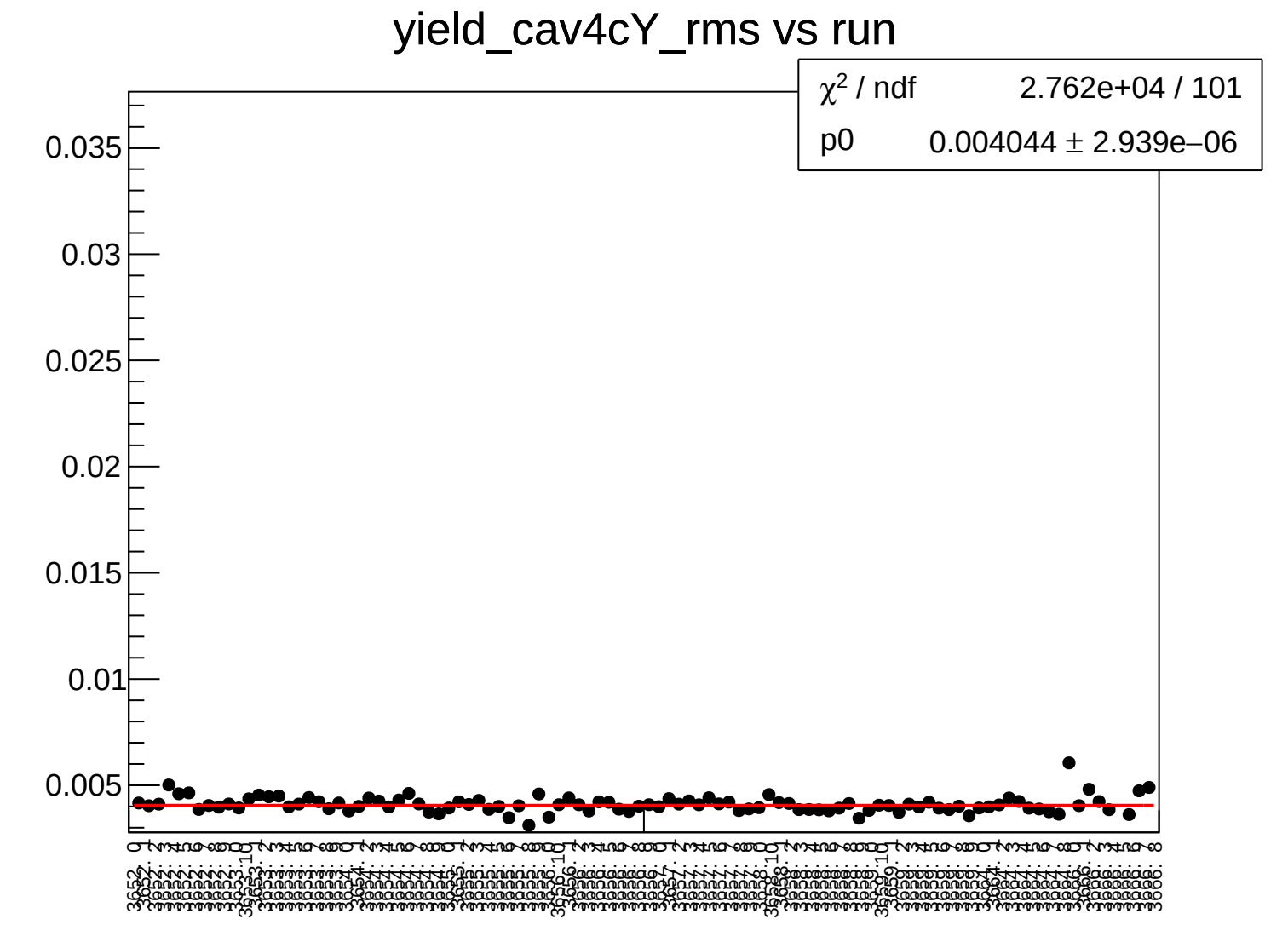

yield_cav4cX_mean vs run
χ² / ndf 1.251e+05 / 101
p0 0.03368 ± 2.142e−06
0.046
0.044
0.042
0.04
0.038
0.036
0.034
0.032
pull
Entries 102
Mean −5.812
Std Dev 18.26
80
60
40
20
0
−20
−40
−60
−80

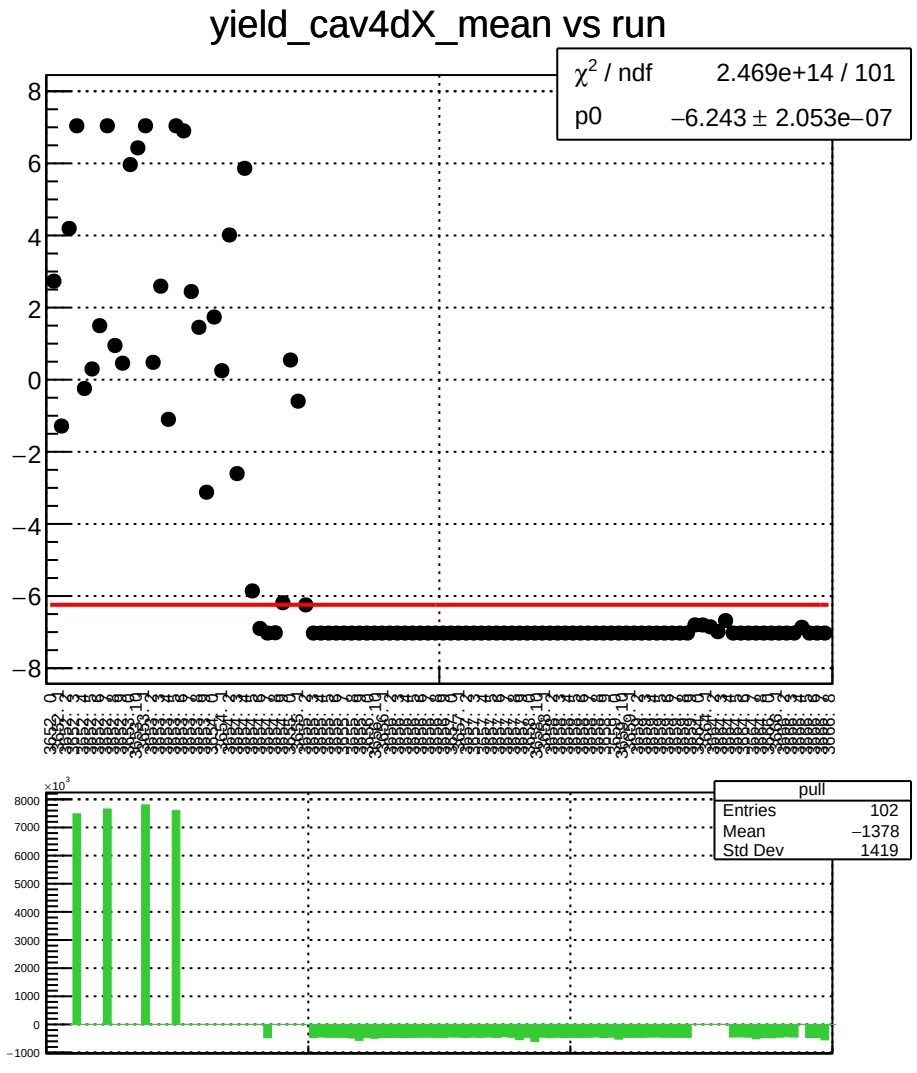

pull1D
Entries 102
Mean −1.23
Std Dev 4.575
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

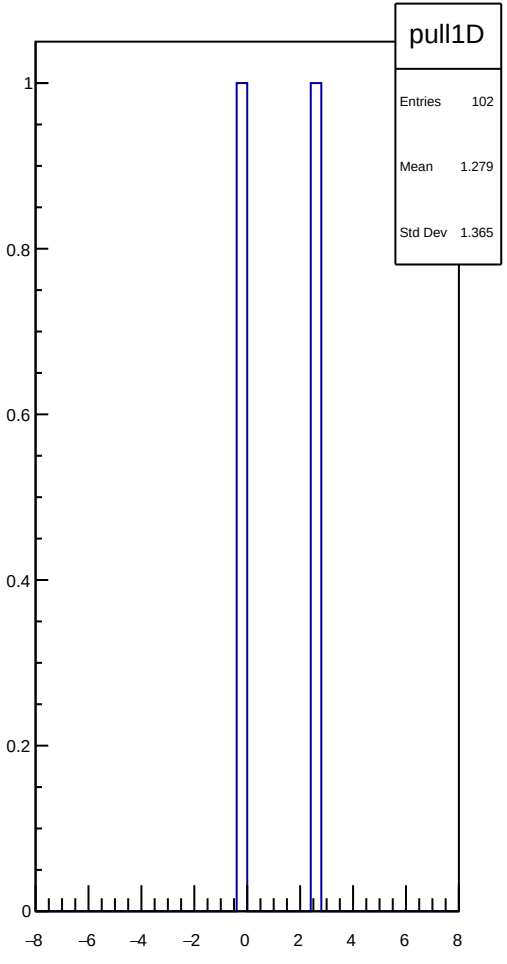

yield_cav4cX_rms vs run
χ² / ndf 1.068e+05 / 101
p0 0.002039 ± 1.514e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

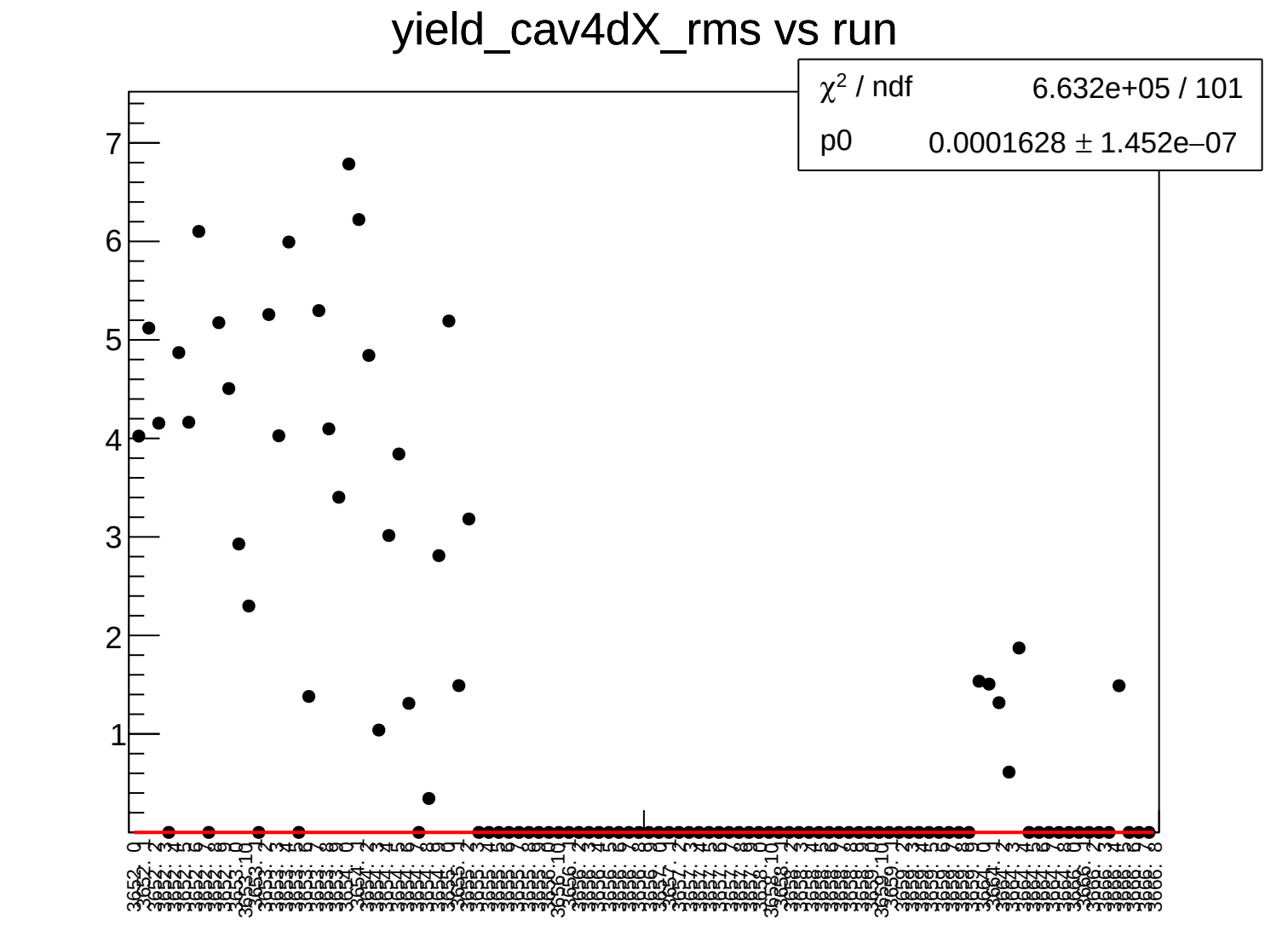

yield_cav4cY_mean vs run
χ² / ndf 1.697e+05 / 101
p0 0.08257 ± 4.157e−06
0.086
0.084
0.082
0.08
0.078
0.076
pull
Entries 102
Mean 57.2
Std Dev 146.2
100
80
60
40
20
0
−20
−40
−60
−80

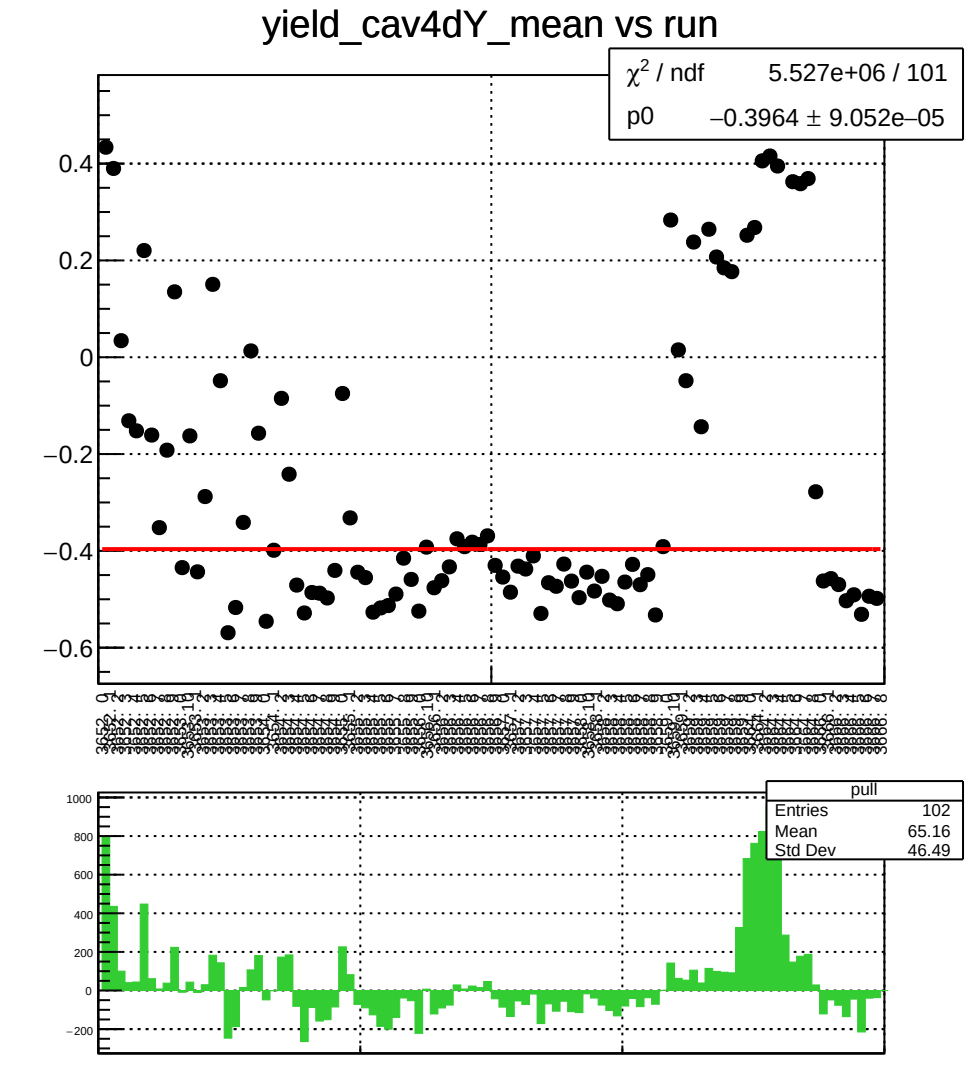

pull1D
Entries 102
Mean 0.4097
Std Dev 4.873
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

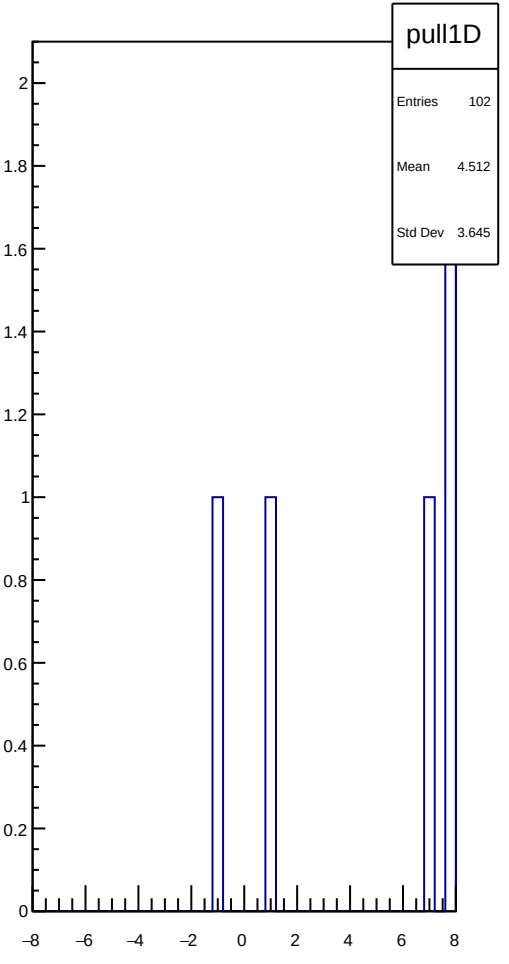

yield_cav4cY_rms vs run
χ² / ndf 2.762e+04 / 101
p0 0.004044 ± 2.939e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

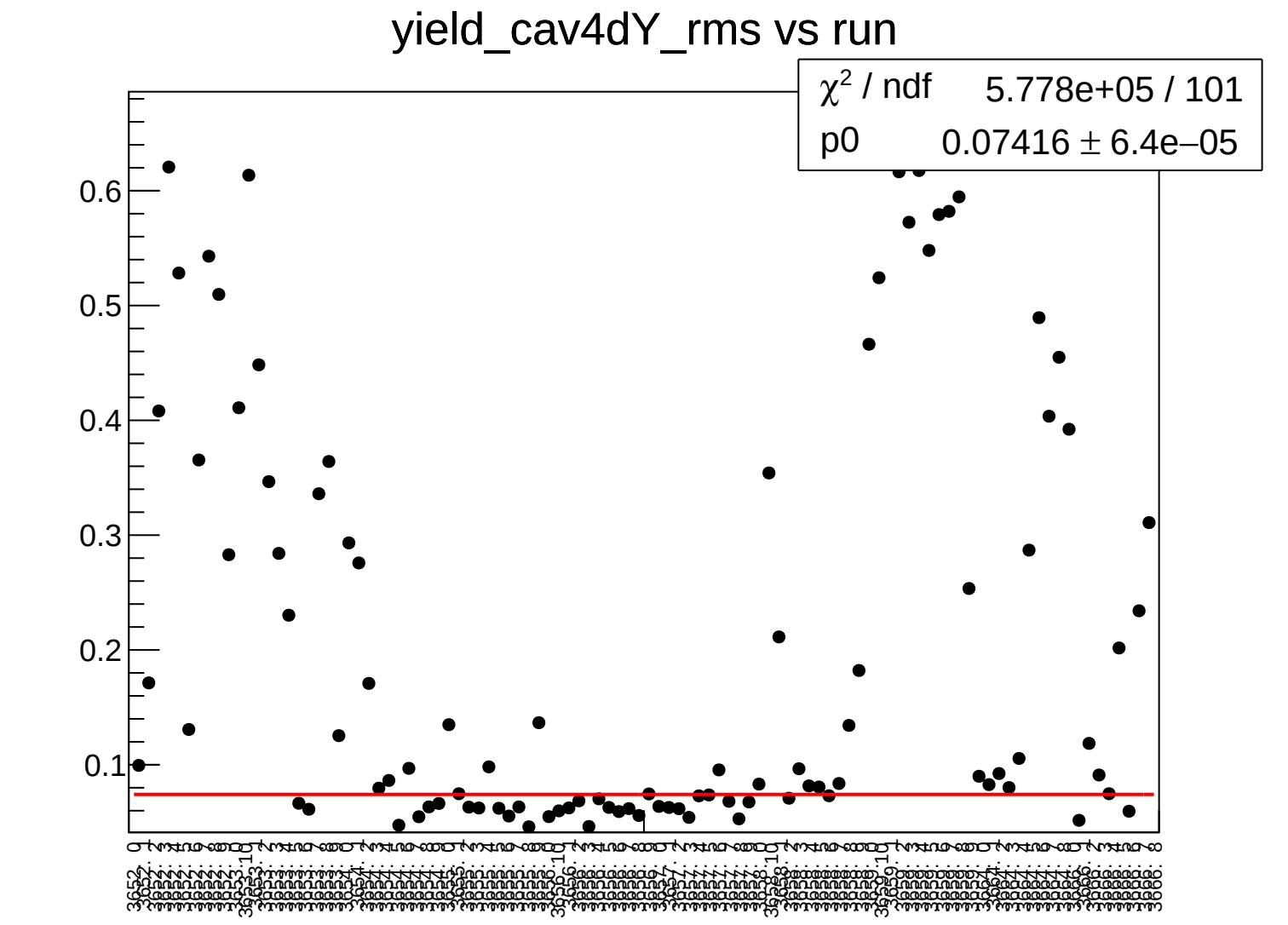

yield_cav4dX_mean vs run
χ² / ndf 2.469e+14 / 101
p0 −6.243 ± 2.053e−07
pull
Entries 102
Mean −1378
Std Dev 1419

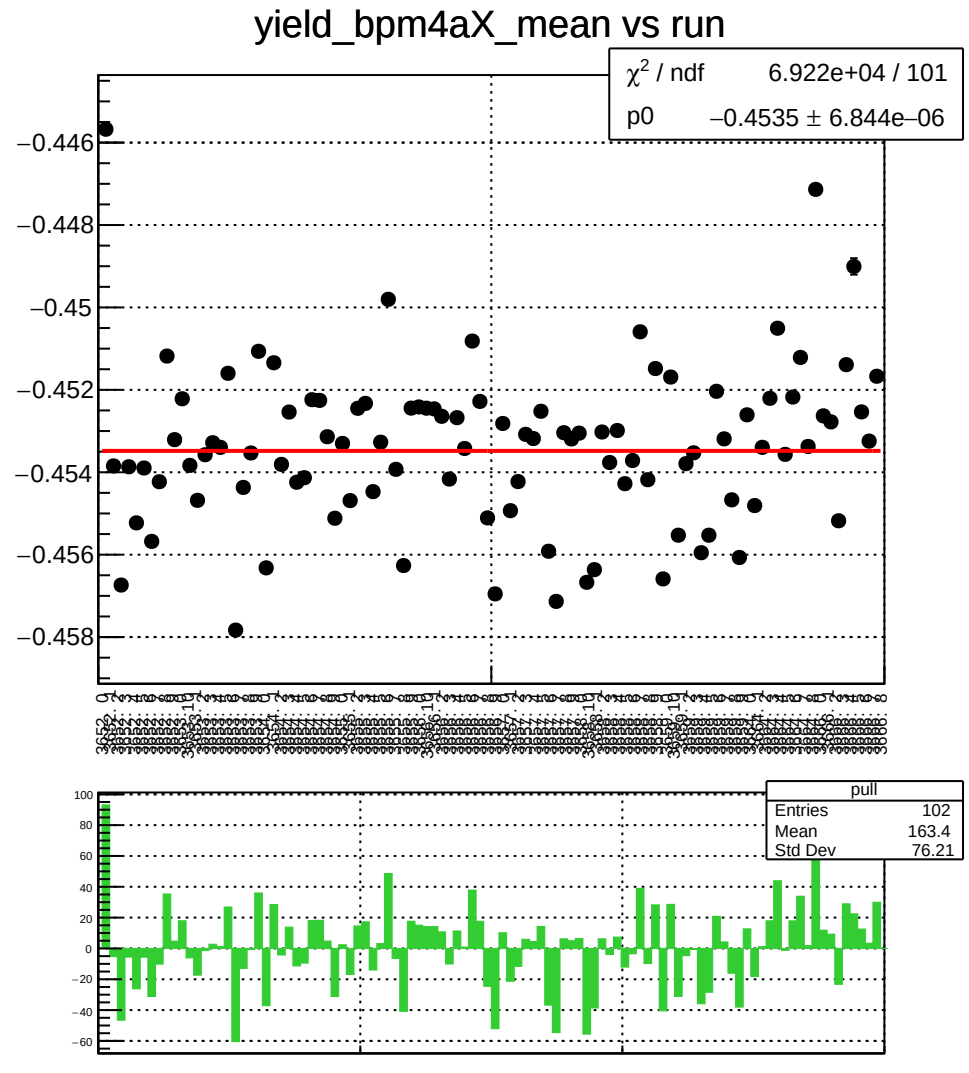

pull1D
Entries 102
Mean 1.279
Std Dev 1.365

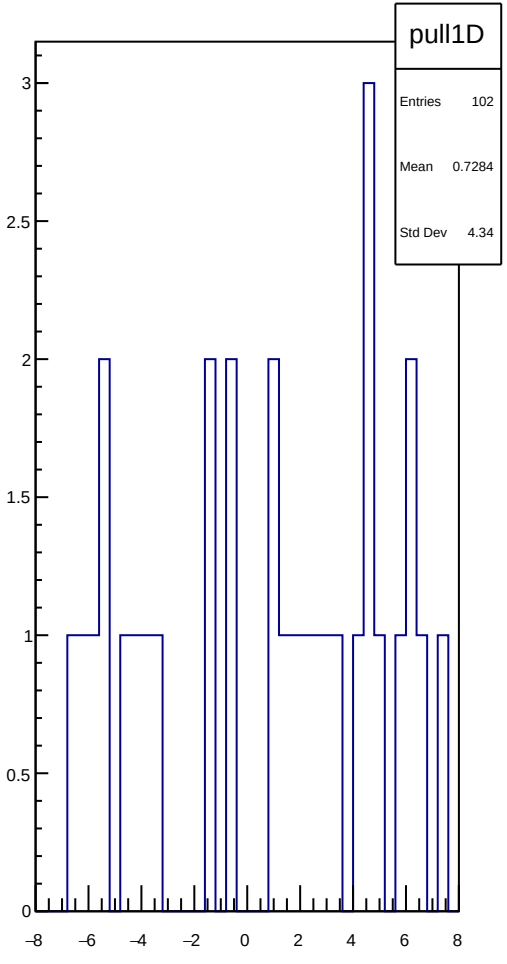

yield_cav4dX_rms vs run
χ² / ndf 6.632e+05 / 101
p0 0.0001628 ± 1.452e−07
7
6
5
4
3
2
1

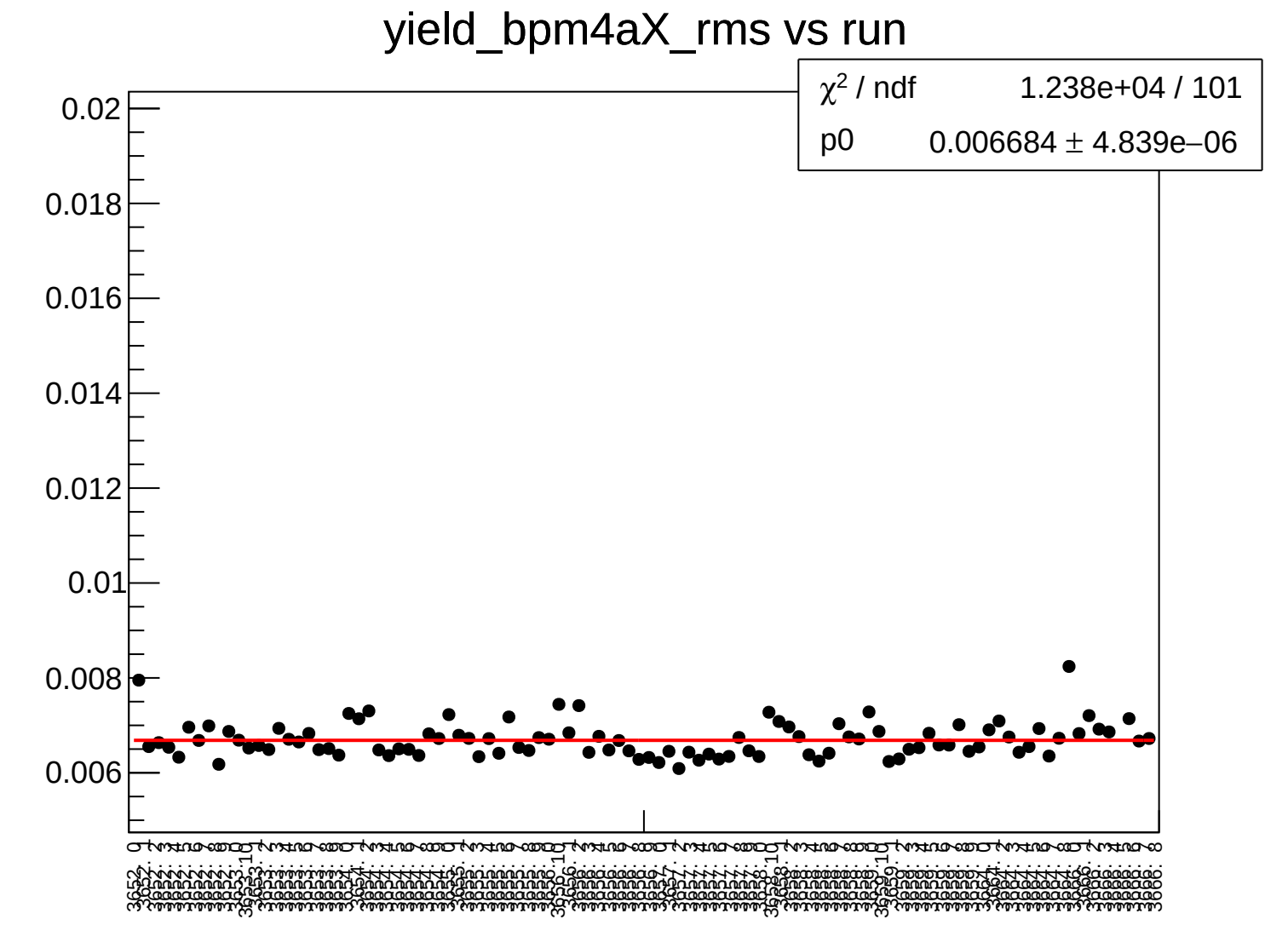

yield_cav4dY_mean vs run
χ² / ndf 5.527e+06 / 101
p0 −0.3964 ± 9.052e−05
0.4
0.2
0
−0.2
−0.4
−0.6
pull
Entries 102
Mean 65.16
Std Dev 46.49
1000
800
600
400
200
0
−200

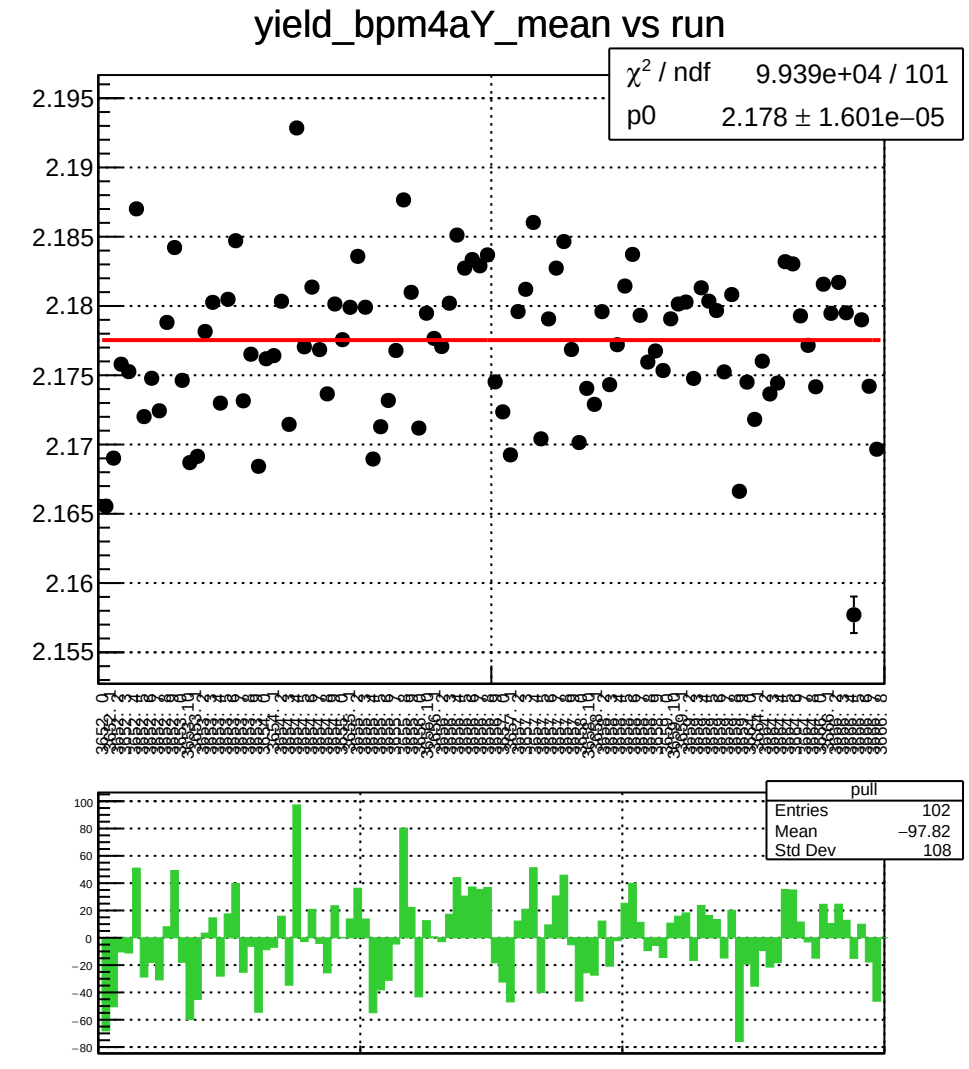

pull1D
Entries 102
Mean 4.512
Std Dev 3.645
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

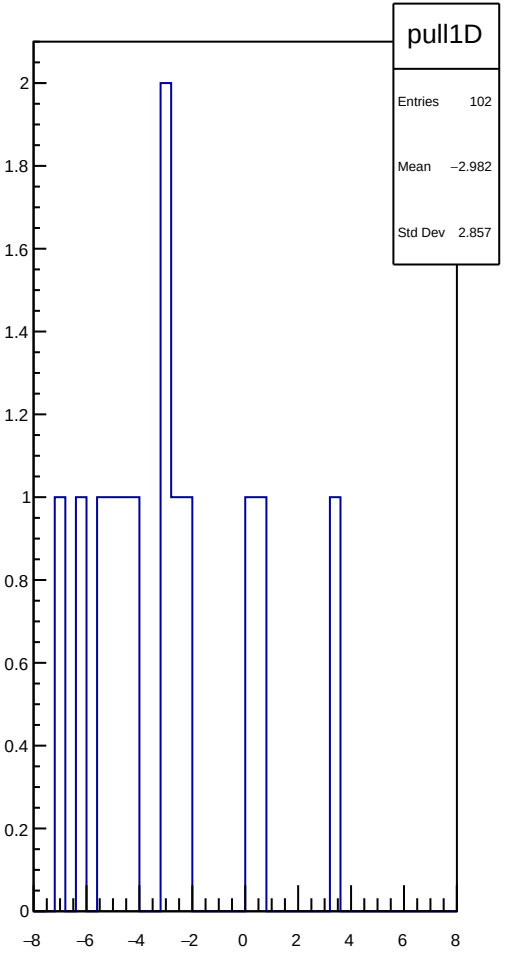

yield_cav4dY_rms vs run
χ^2 / ndf 5.778e+05 / 101
p0 0.07416 ± 6.4e−05
0.6
0.5
0.4
0.3
0.2
0.1

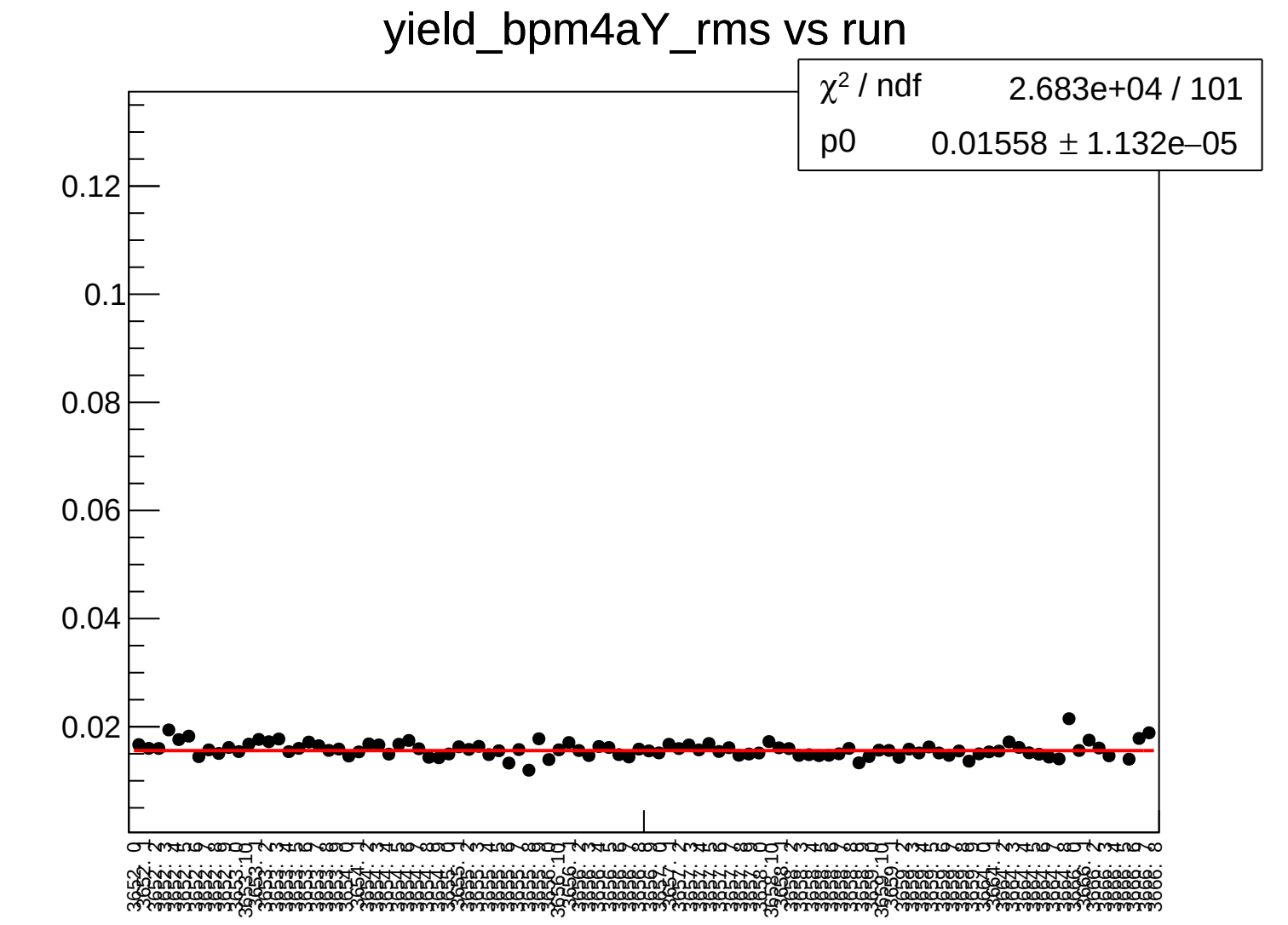

yield_bpm4aX_mean vs run
χ² / ndf 6.922e+04 / 101
p0 −0.4535 ± 6.844e−06
−0.446
−0.448
−0.45
−0.452
−0.454
−0.456
−0.458
pull
Entries 102
Mean 163.4
Std Dev 76.21
100
80
60
40
20
0
−20
−40
−60

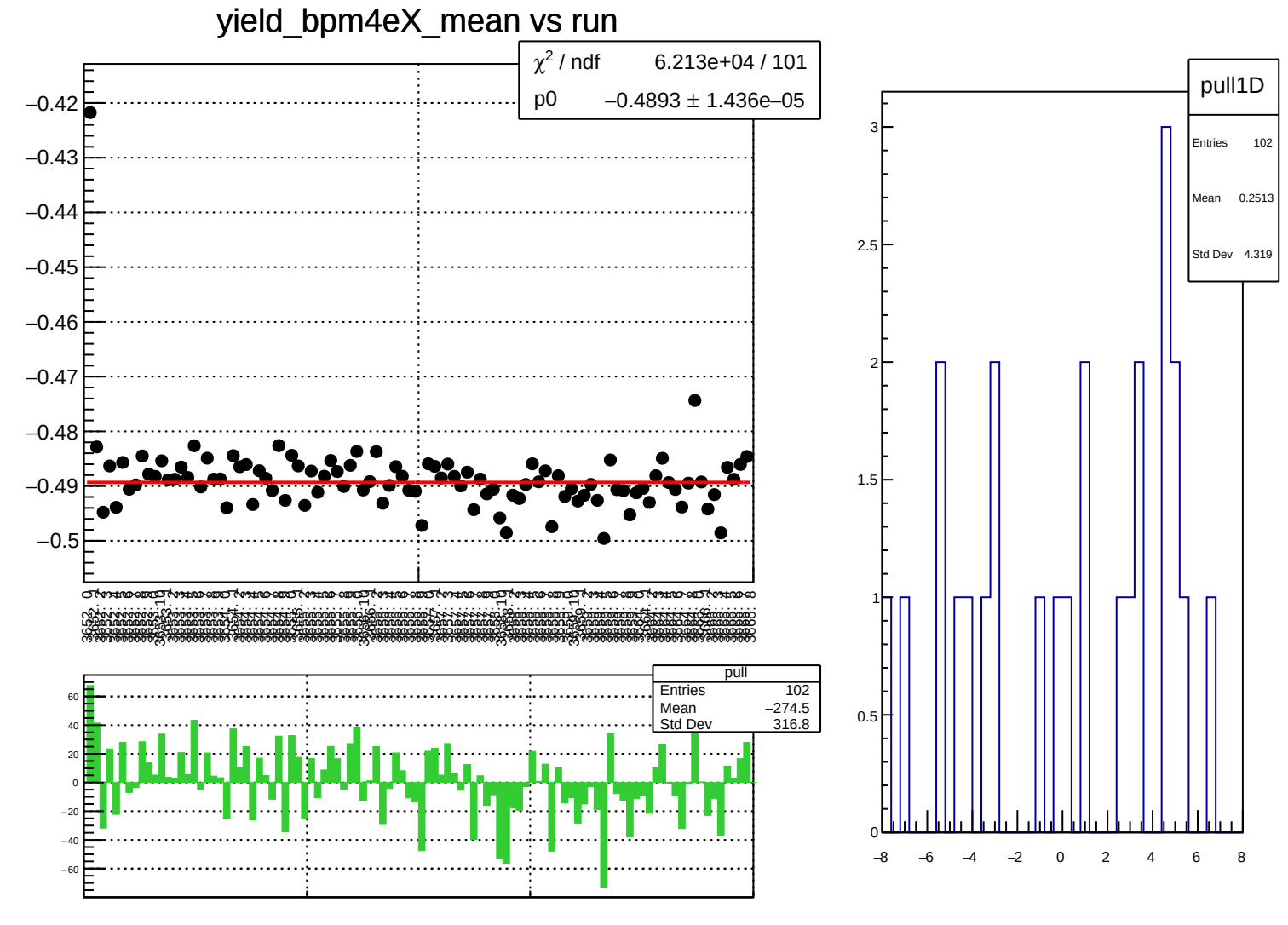

pull1D
Entries 102
Mean 0.7284
Std Dev 4.34
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

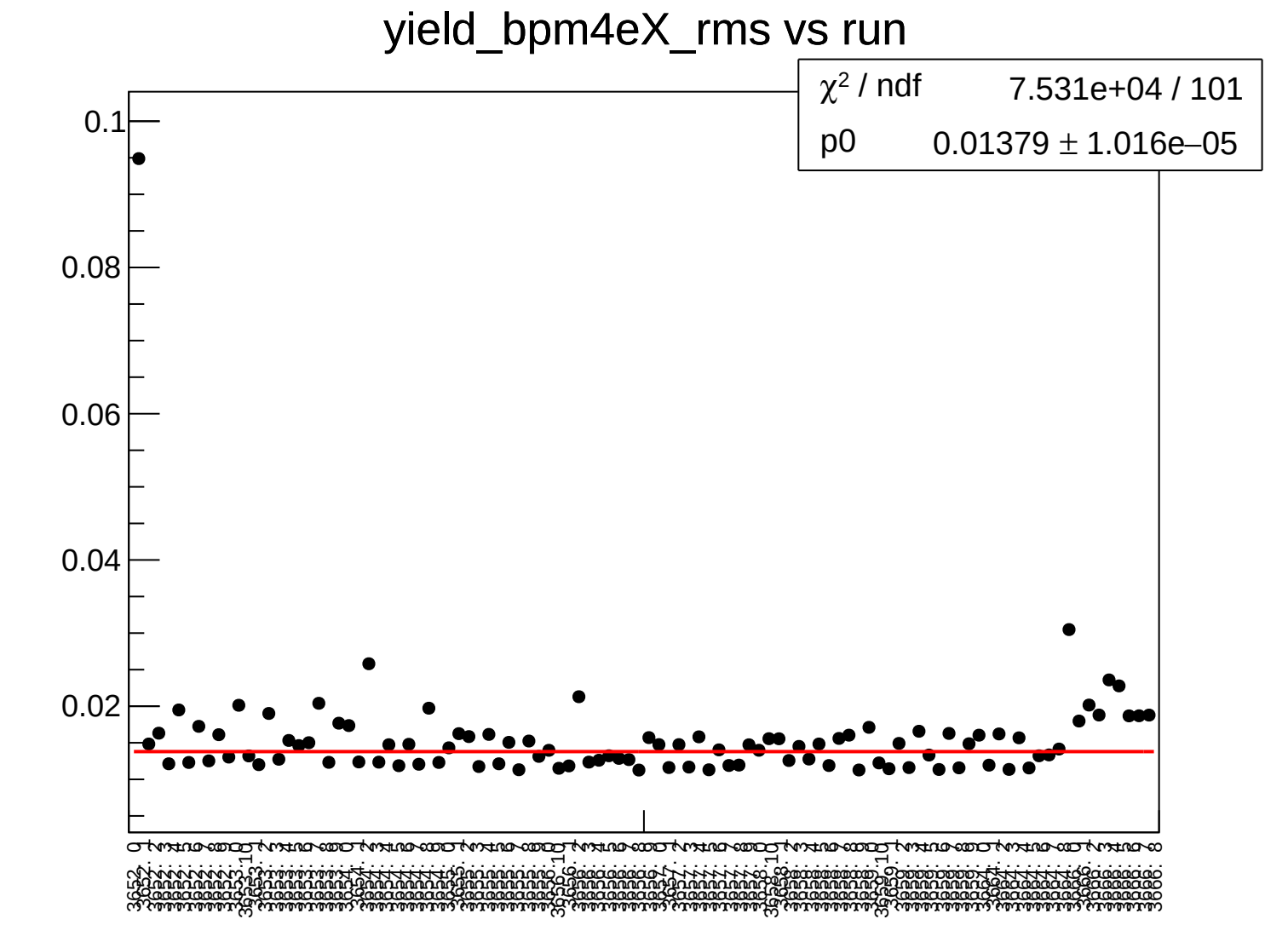

yield_bpm4aX_rms vs run
χ^2 / ndf 1.238e+04 / 101
p0 0.006684 ± 4.839e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

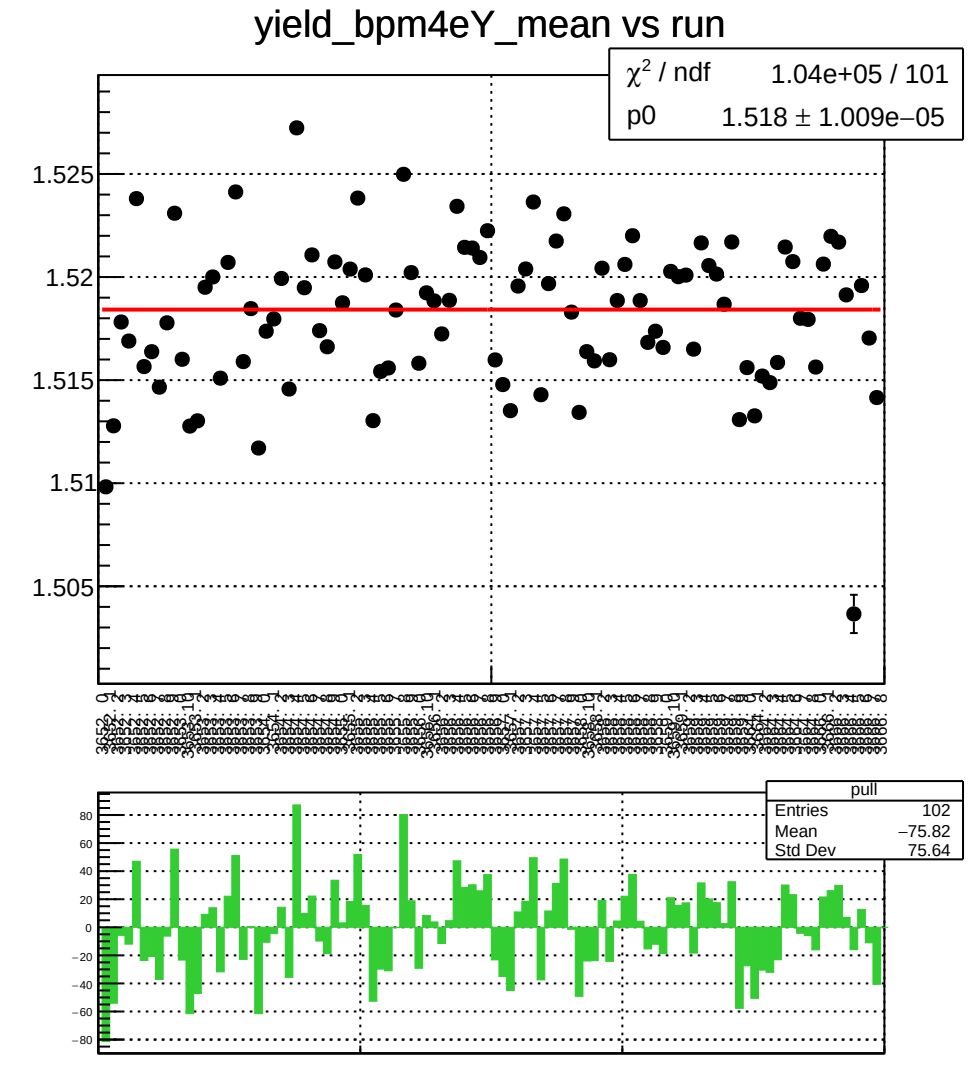

yield_bpm4aY_mean vs run
χ² / ndf 9.939e+04 / 101
p0 2.178 ± 1.601e−05
2.195
2.19
2.185
2.18
2.175
2.17
2.165
2.16
2.155
pull
Entries 102
Mean −97.82
Std Dev 108
100
80
60
40
20
0
−20
−40
−60
−80

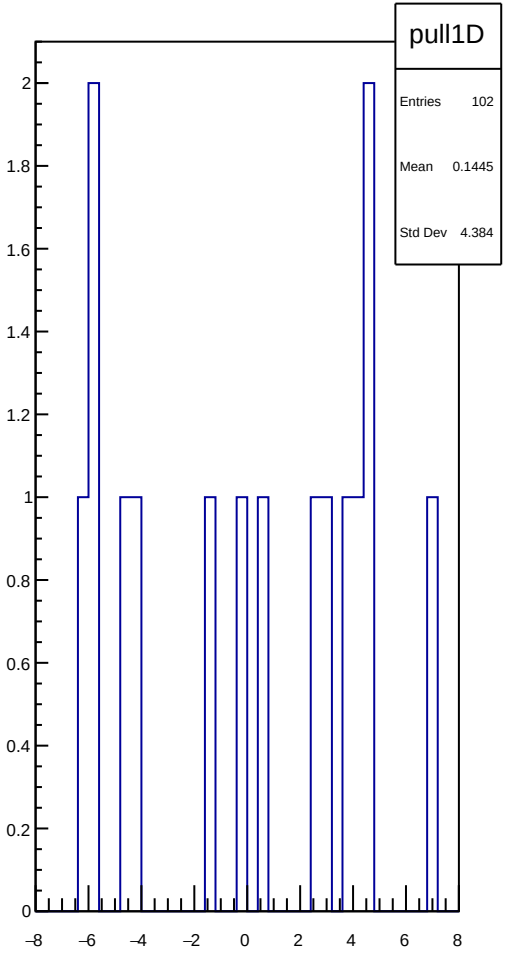

pull1D
Entries 102
Mean −2.982
Std Dev 2.857
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

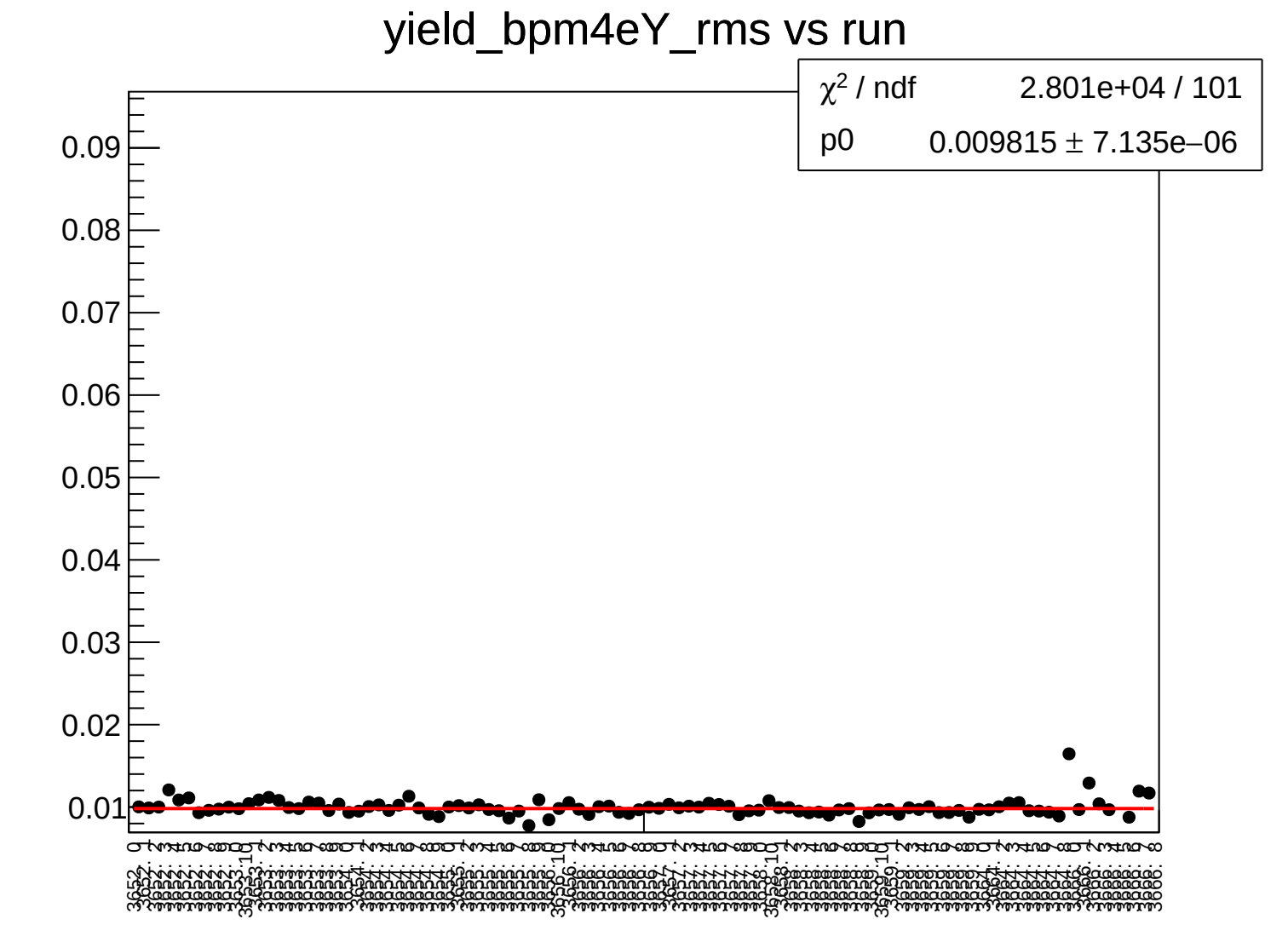

yield_bpm4aY_rms vs run
χ² / ndf 2.683e+04 / 101
p0 0.01558 ± 1.132e−05
0.12
0.1
0.08
0.06
0.04
0.02

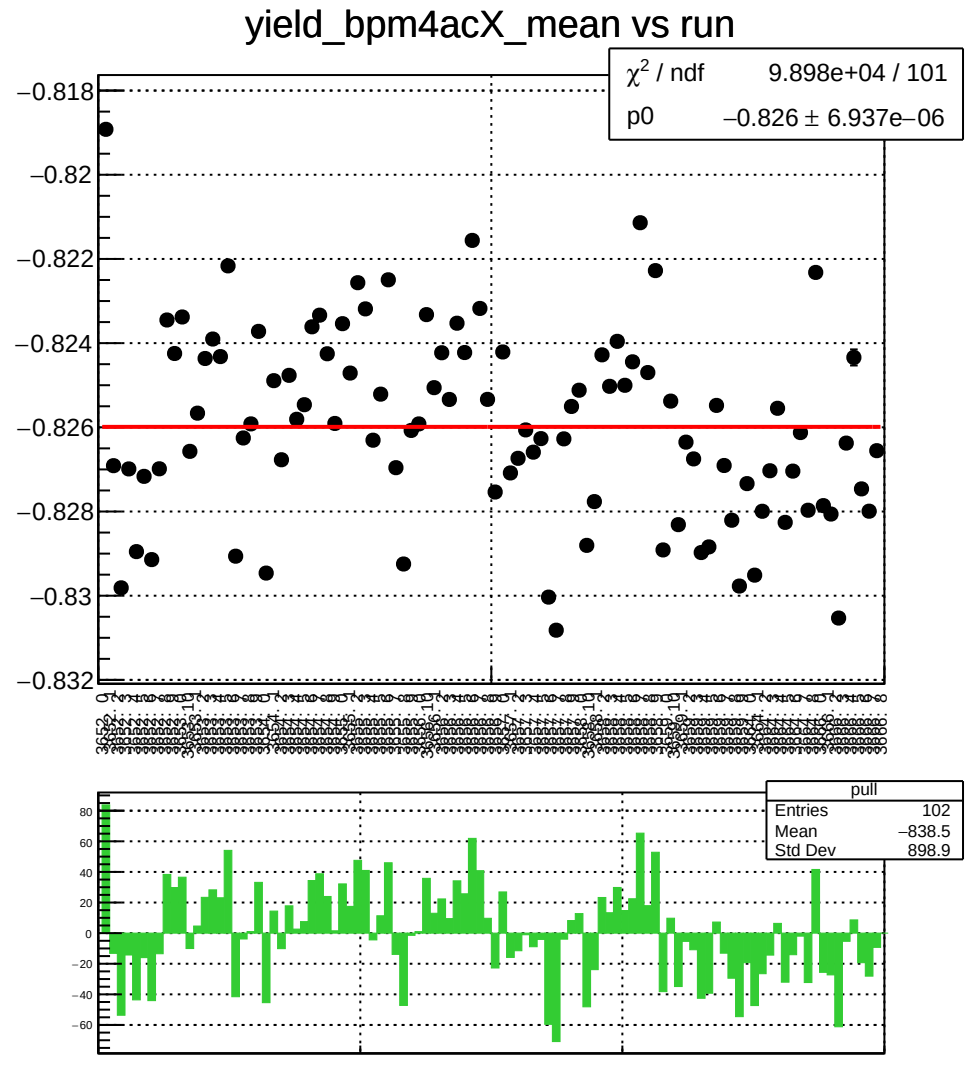

yield_bpm4eX_mean vs run
χ² / ndf 6.213e+04 / 101
p0 −0.4893 ± 1.436e−05
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
pull
Entries 102
Mean −274.5
Std Dev 316.8
60
40
20
0
−20
−40
−60
pull1D
Entries 102
Mean 0.2513
Std Dev 4.319
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

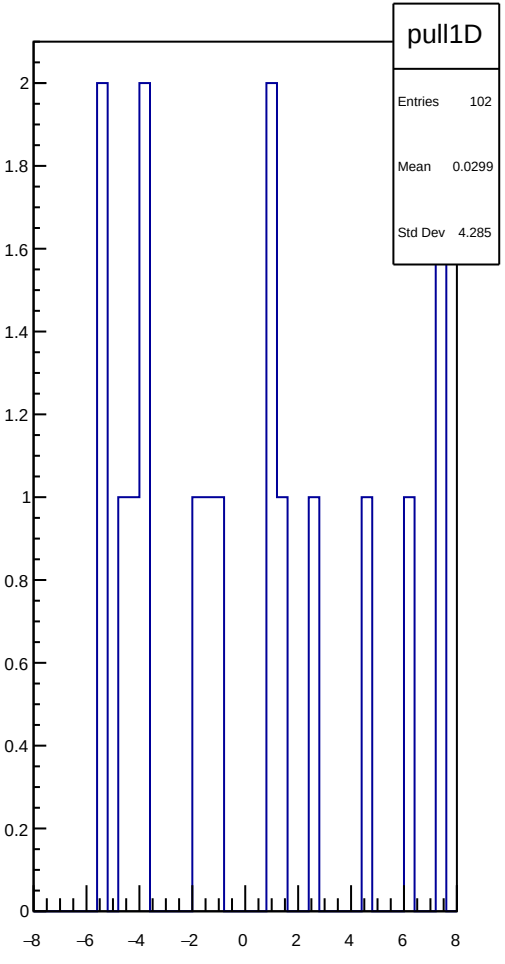

yield_bpm4eX_rms vs run
χ² / ndf 7.531e+04 / 101
p0 0.01379 ± 1.016e−05
0.1
0.08
0.06
0.04
0.02

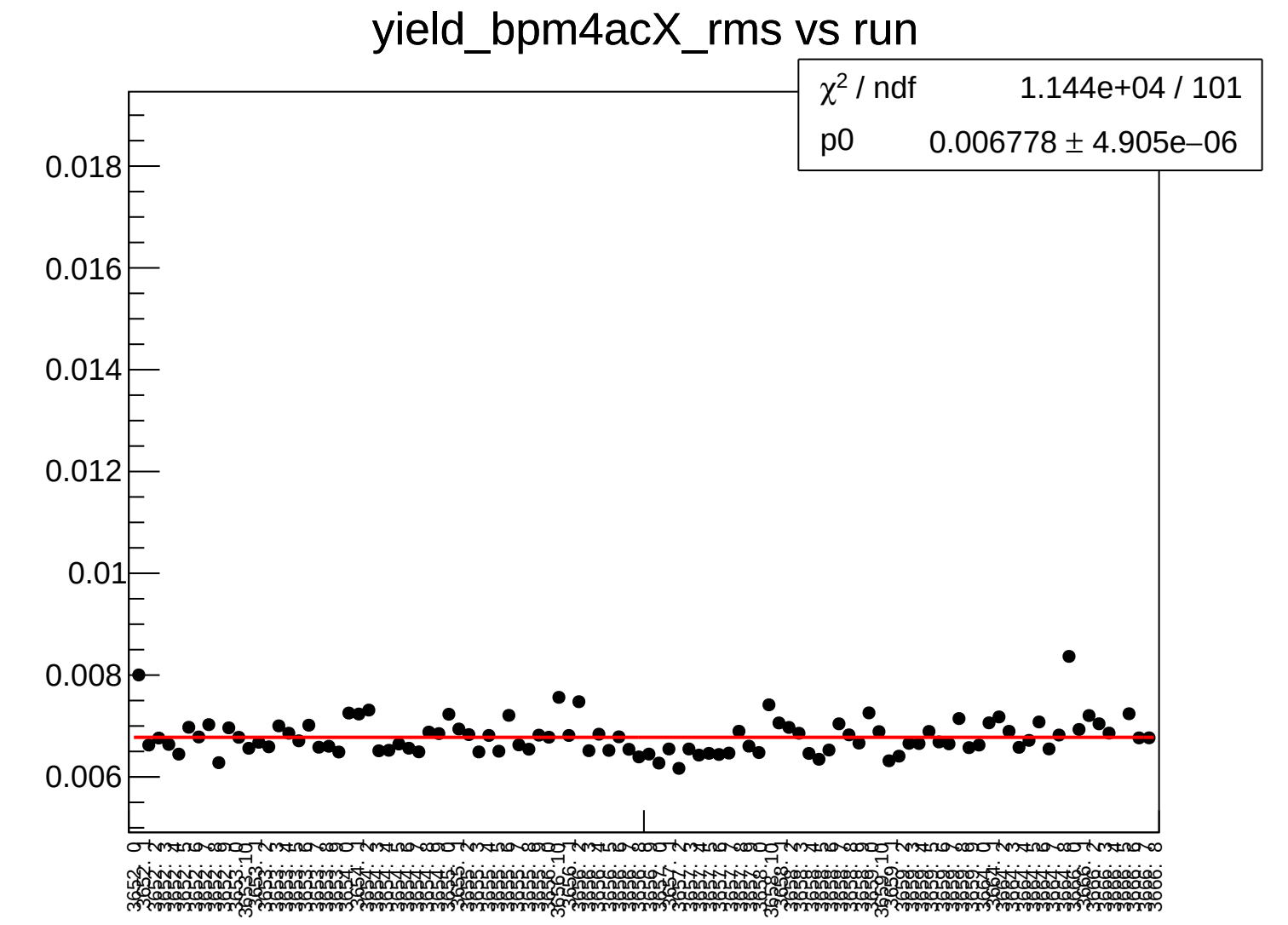

yield_bpm4eY_mean vs run
χ² / ndf 1.04e+05 / 101
p0 1.518 ± 1.009e−05
1.525
1.52
1.515
1.51
1.505
pull
Entries 102
Mean −75.82
Std Dev 75.64
80
60
40
20
0
−20
−40
−60
−80

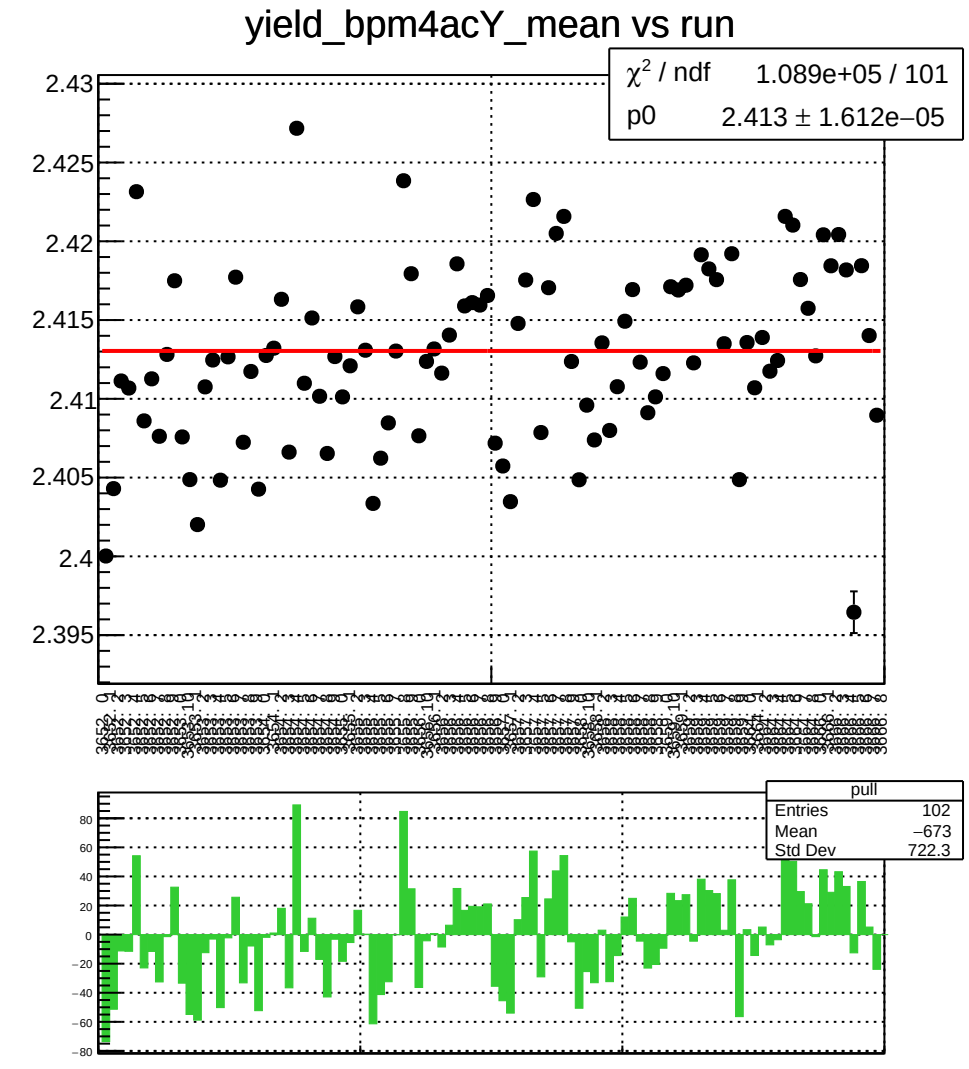

pull1D
Entries 102
Mean 0.1445
Std Dev 4.384
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

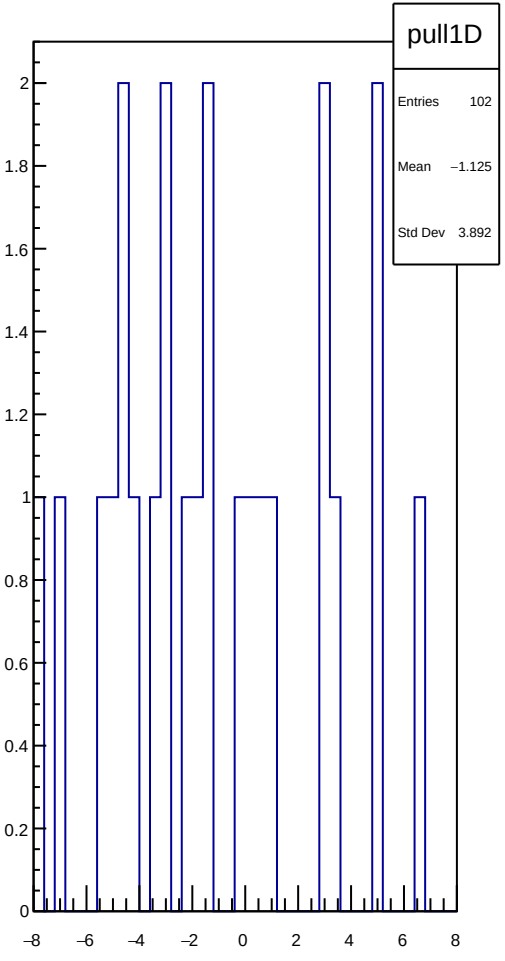

yield_bpm4eY_rms vs run
χ² / ndf 2.801e+04 / 101
p0 0.009815 ± 7.135e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

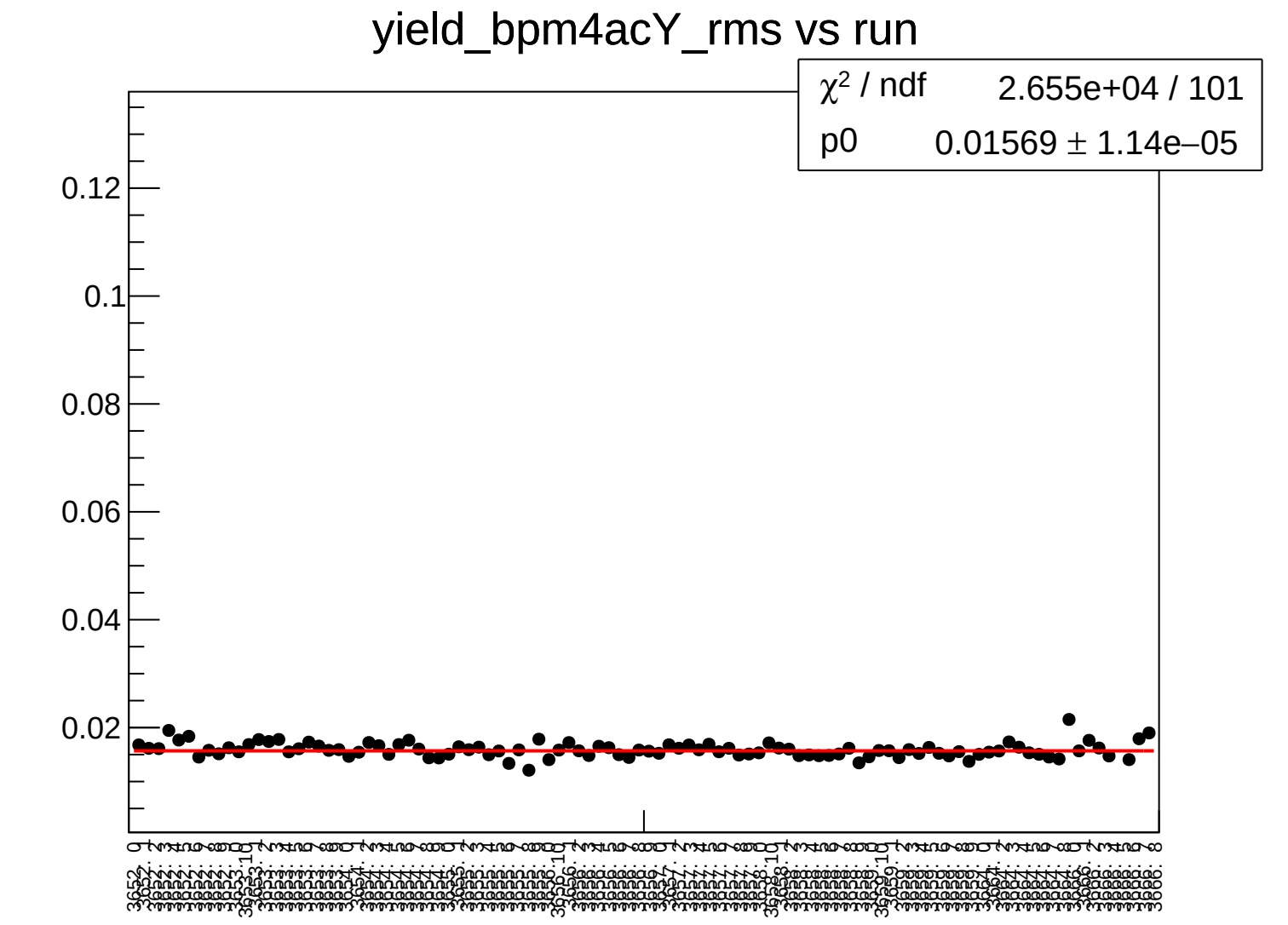

yield_bpm4acX_mean vs run
χ² / ndf 9.898e+04 / 101
p0 −0.826 ± 6.937e−06
−0.818
−0.82
−0.822
−0.824
−0.826
−0.828
−0.83
−0.832
pull
Entries 102
Mean −838.5
Std Dev 898.9
80
60
40
20
0
−20
−40
−60

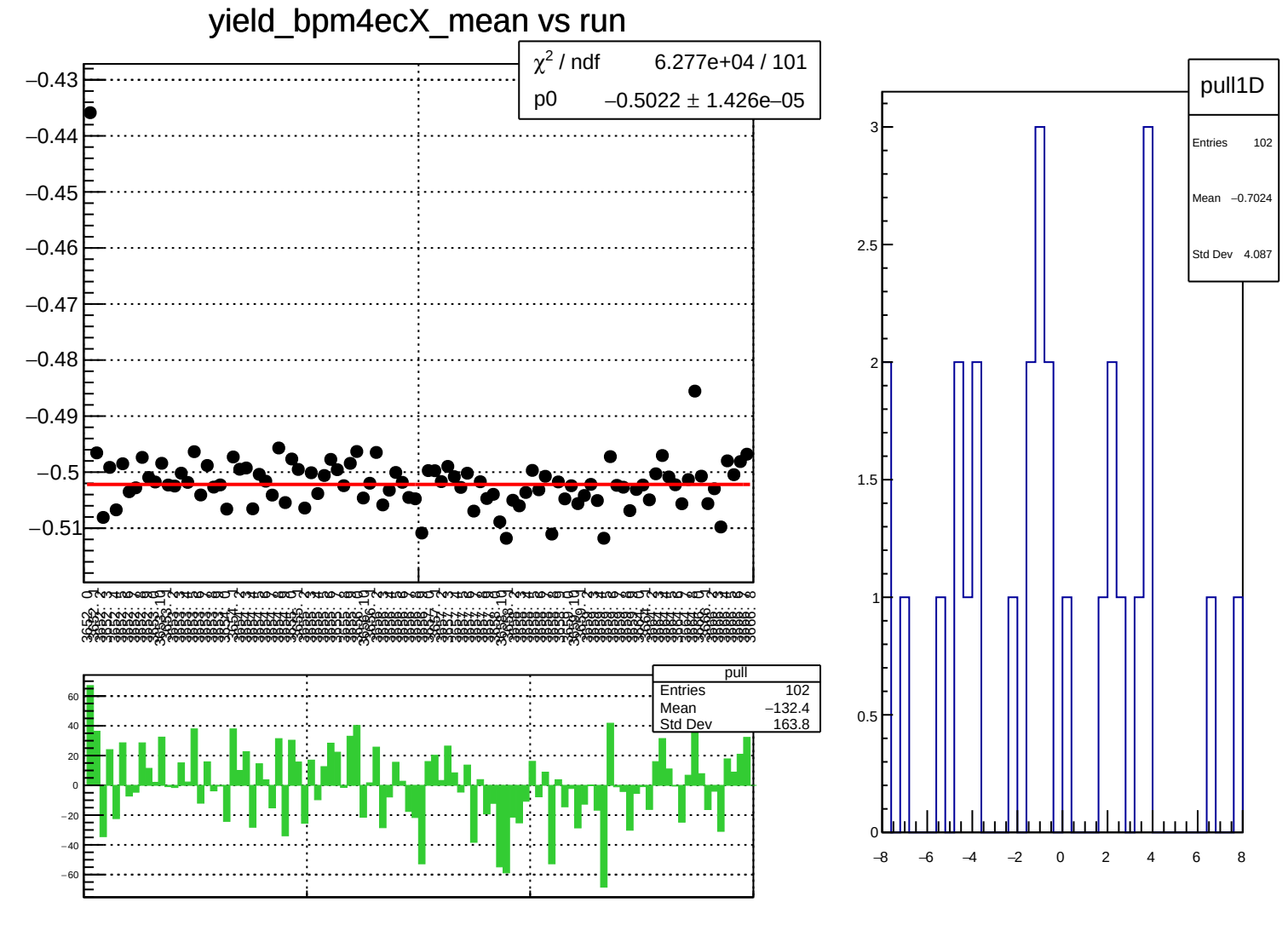

pull1D
Entries 102
Mean 0.0299
Std Dev 4.285
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

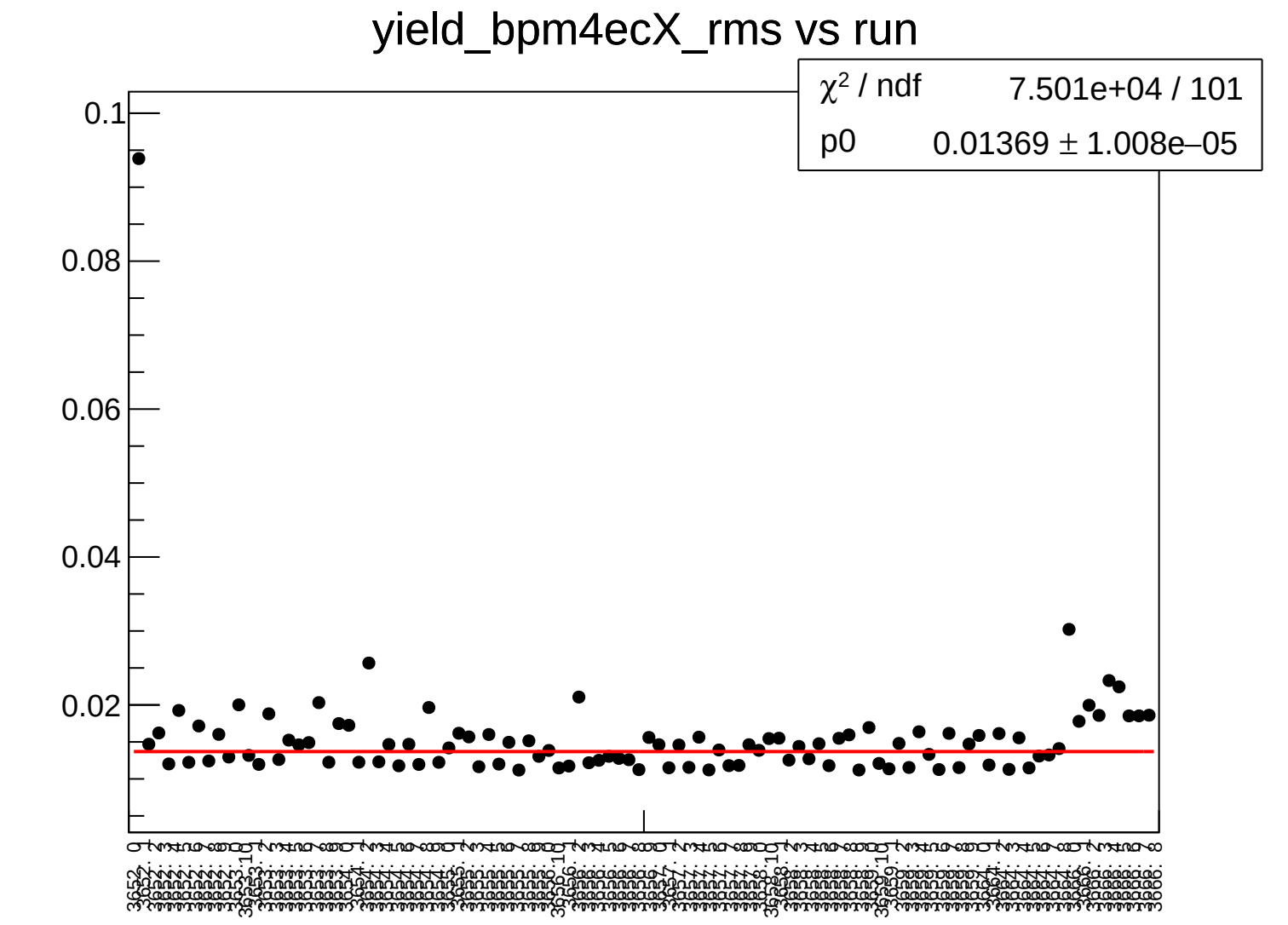

yield_bpm4acX_rms vs run
χ² / ndf 1.144e+04 / 101
p0 0.006778 ± 4.905e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

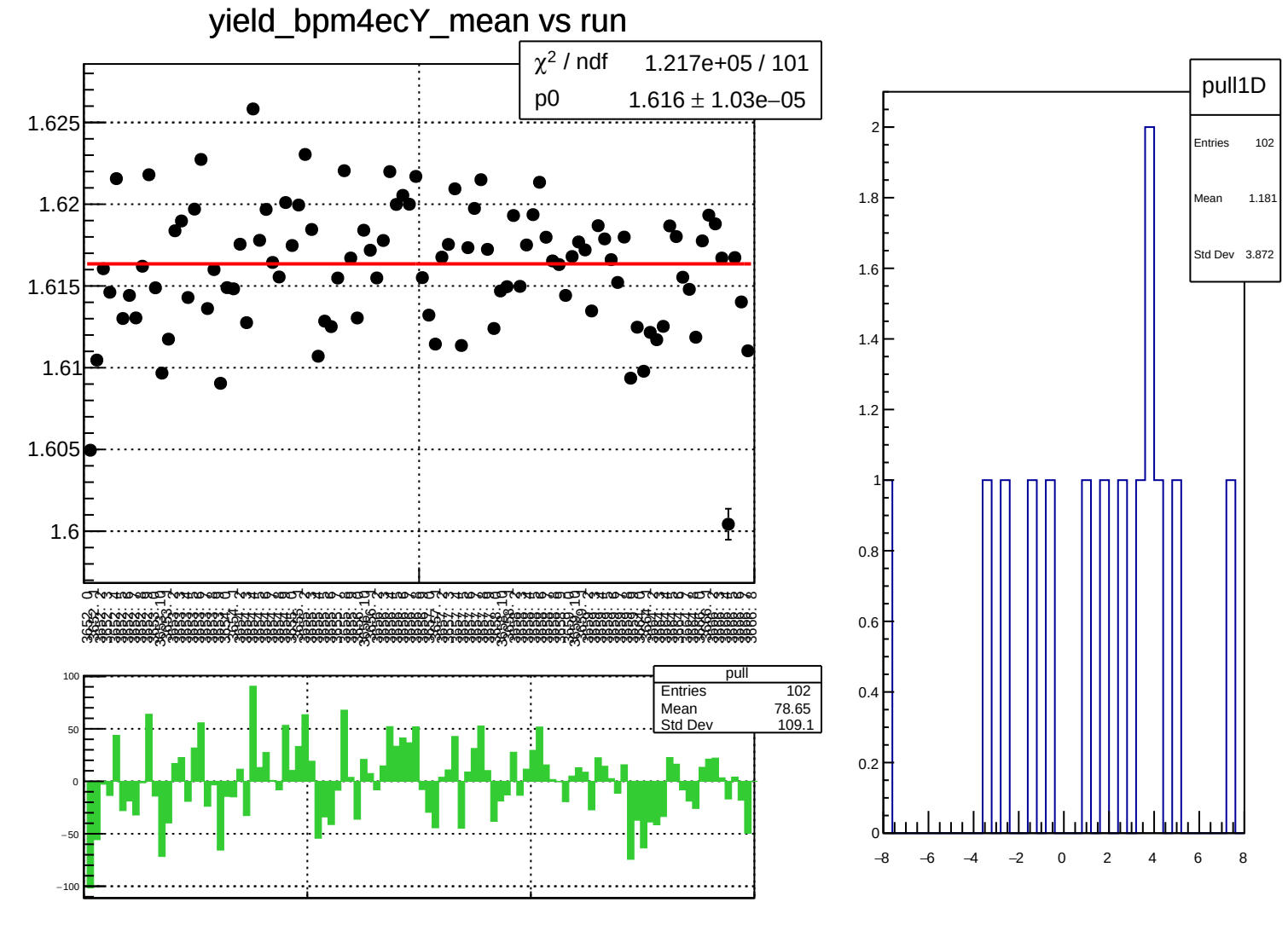

yield_bpm4acY_mean vs run
χ² / ndf 1.089e+05 / 101
p0 2.413 ± 1.612e−05
pull
Entries 102
Mean −673
Std Dev 722.3

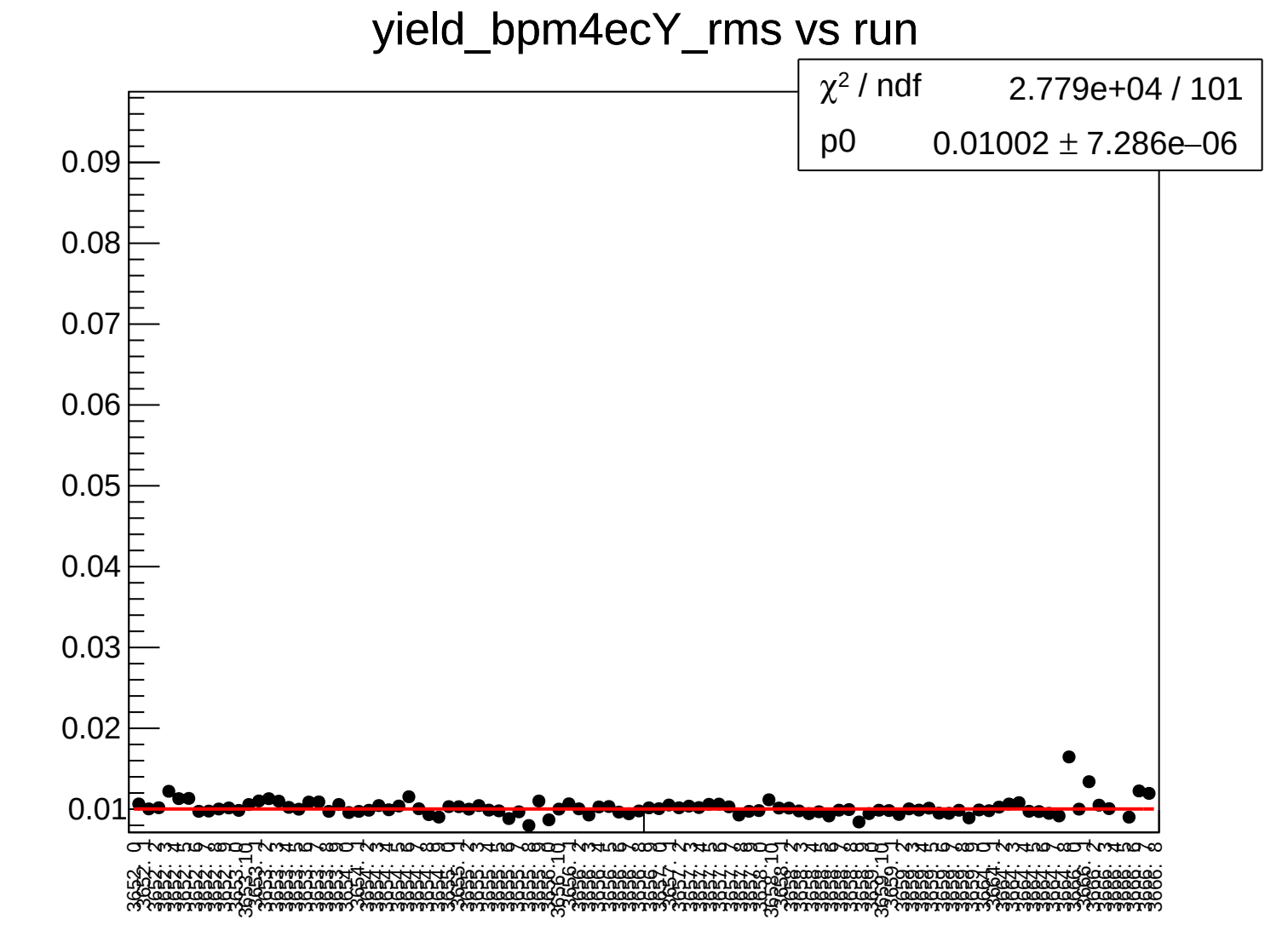

pull1D
Entries 102
Mean −1.125
Std Dev 3.892

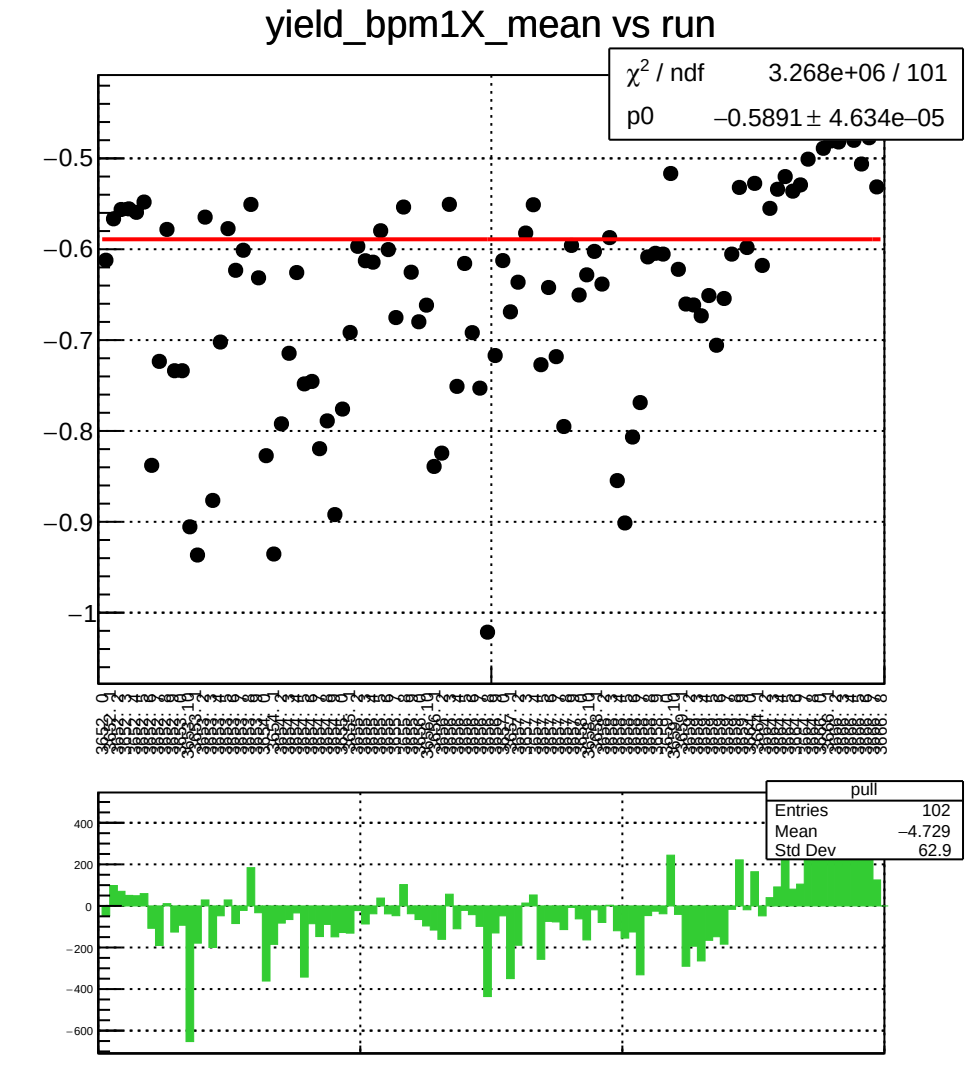

yield_bpm4acY_rms vs run
χ² / ndf 2.655e+04 / 101
p0 0.01569 ± 1.14e−05
0.12
0.1
0.08
0.06
0.04
0.02

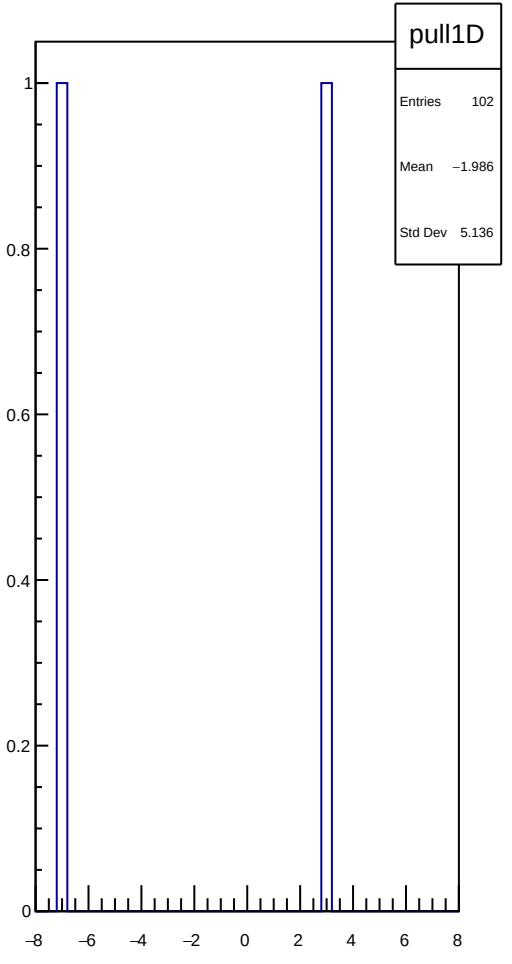

yield_bpm4ecX_mean vs run
χ² / ndf 6.277e+04 / 101
p0 −0.5022 ± 1.426e−05
−0.43
−0.44
−0.45
−0.46
−0.47
−0.48
−0.49
−0.5
−0.51
pull
Entries 102
Mean −132.4
Std Dev 163.8
60
40
20
0
−20
−40
−60
pull1D
Entries 102
Mean −0.7024
Std Dev 4.087
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

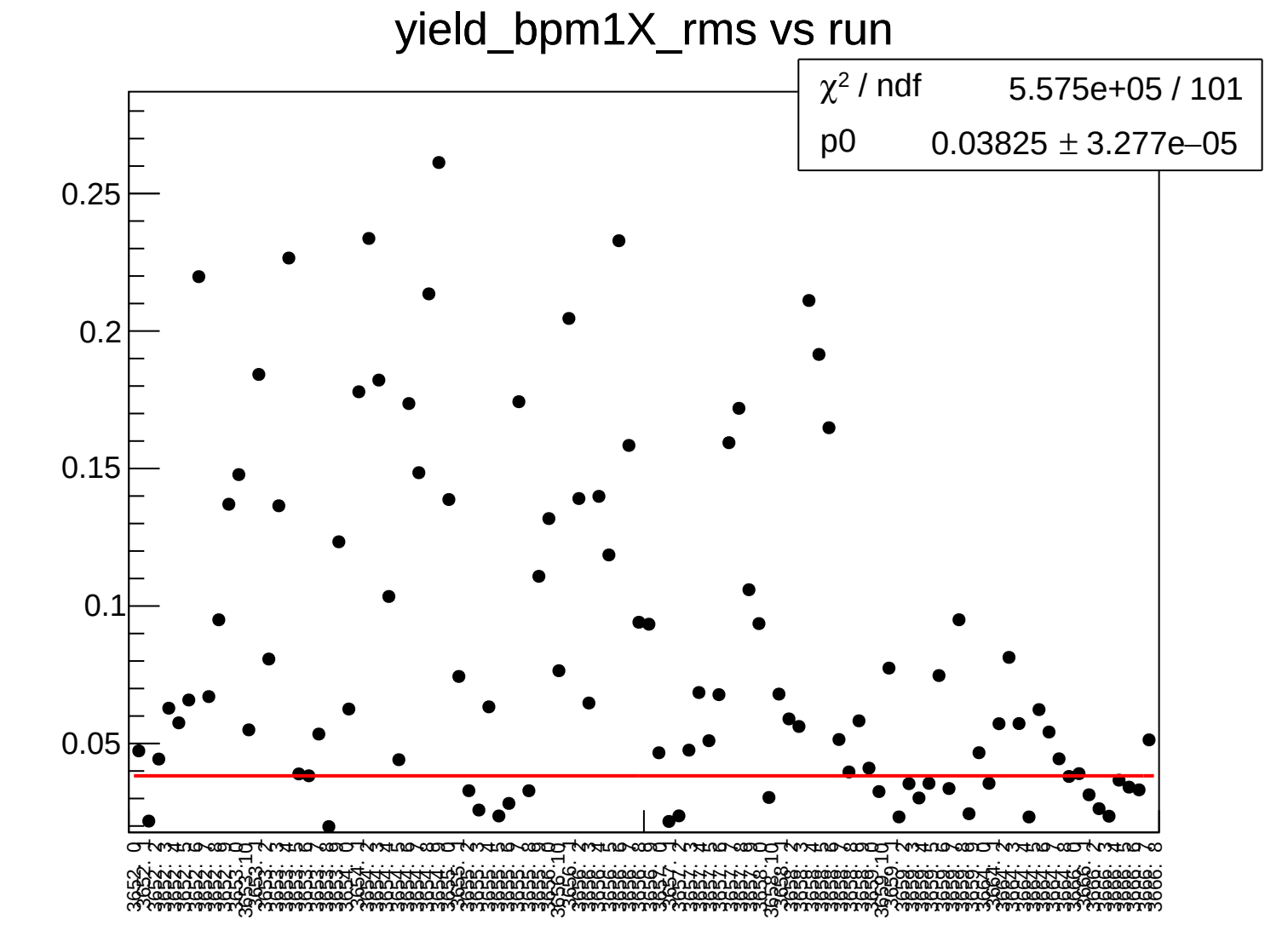

yield_bpm4ecX_rms vs run
χ² / ndf 7.501e+04 / 101
p0 0.01369 ± 1.008e–05
0.1
0.08
0.06
0.04
0.02

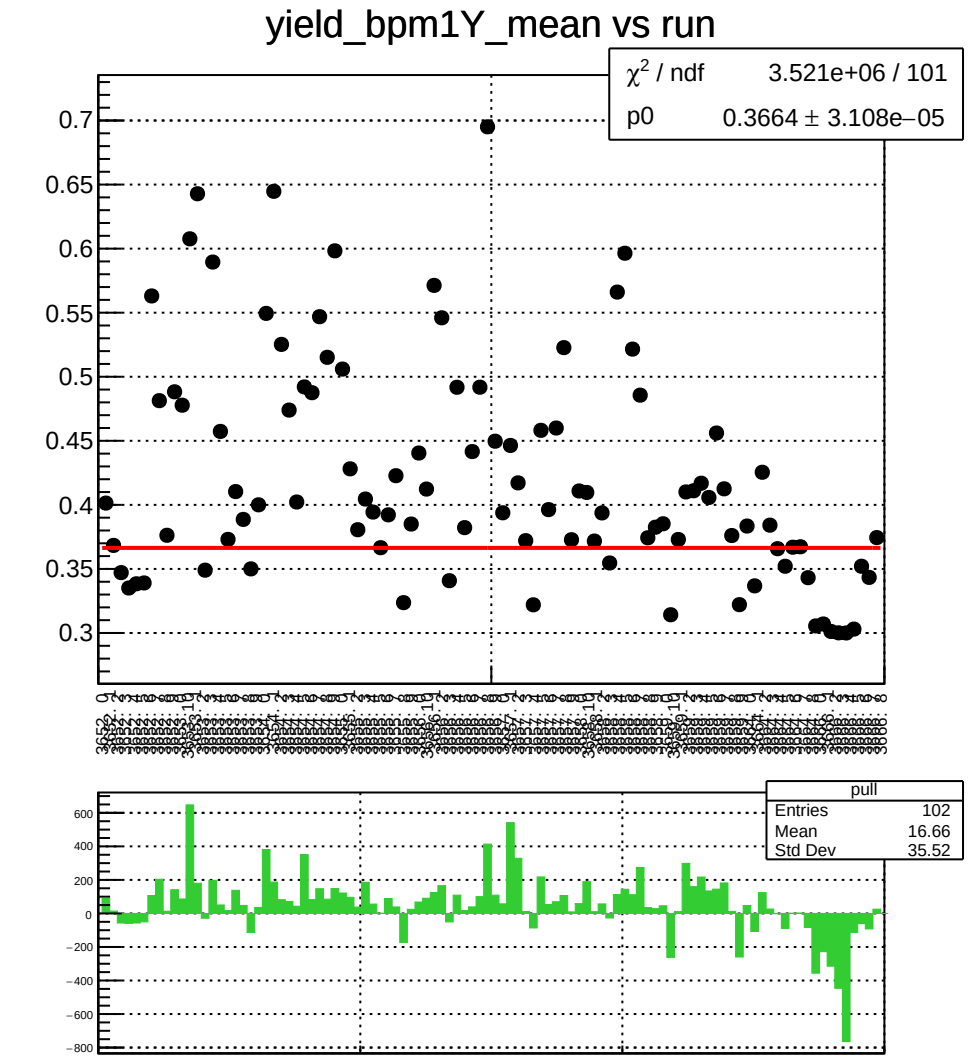

yield_bpm4ecY_mean vs run
χ² / ndf 1.217e+05 / 101
p0 1.616 ± 1.03e−05
1.625
1.62
1.615
1.61
1.605
1.6
pull
Entries 102
Mean 78.65
Std Dev 109.1
100
50
0
−50
−100
pull1D
Entries 102
Mean 1.181
Std Dev 3.872
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

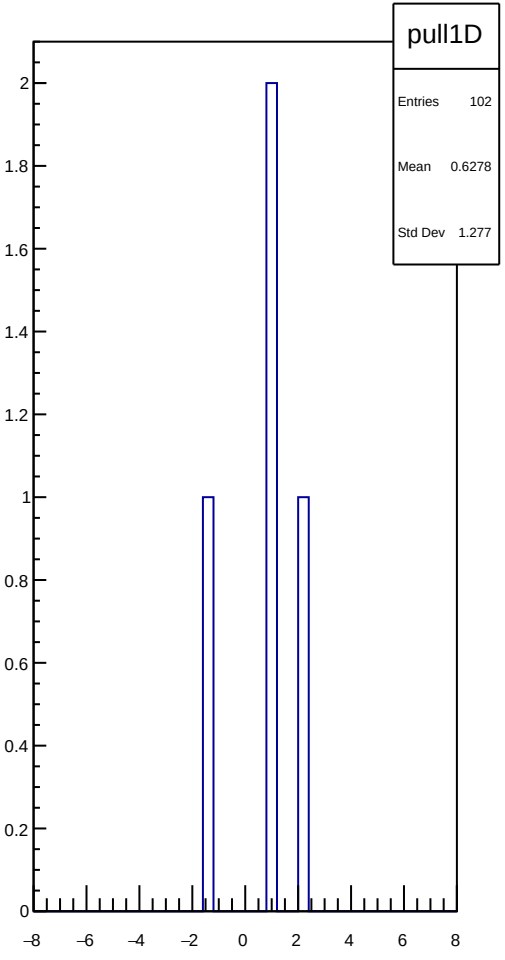

yield_bpm4ecY_rms vs run
χ² / ndf 2.779e+04 / 101
p0 0.01002 ± 7.286e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

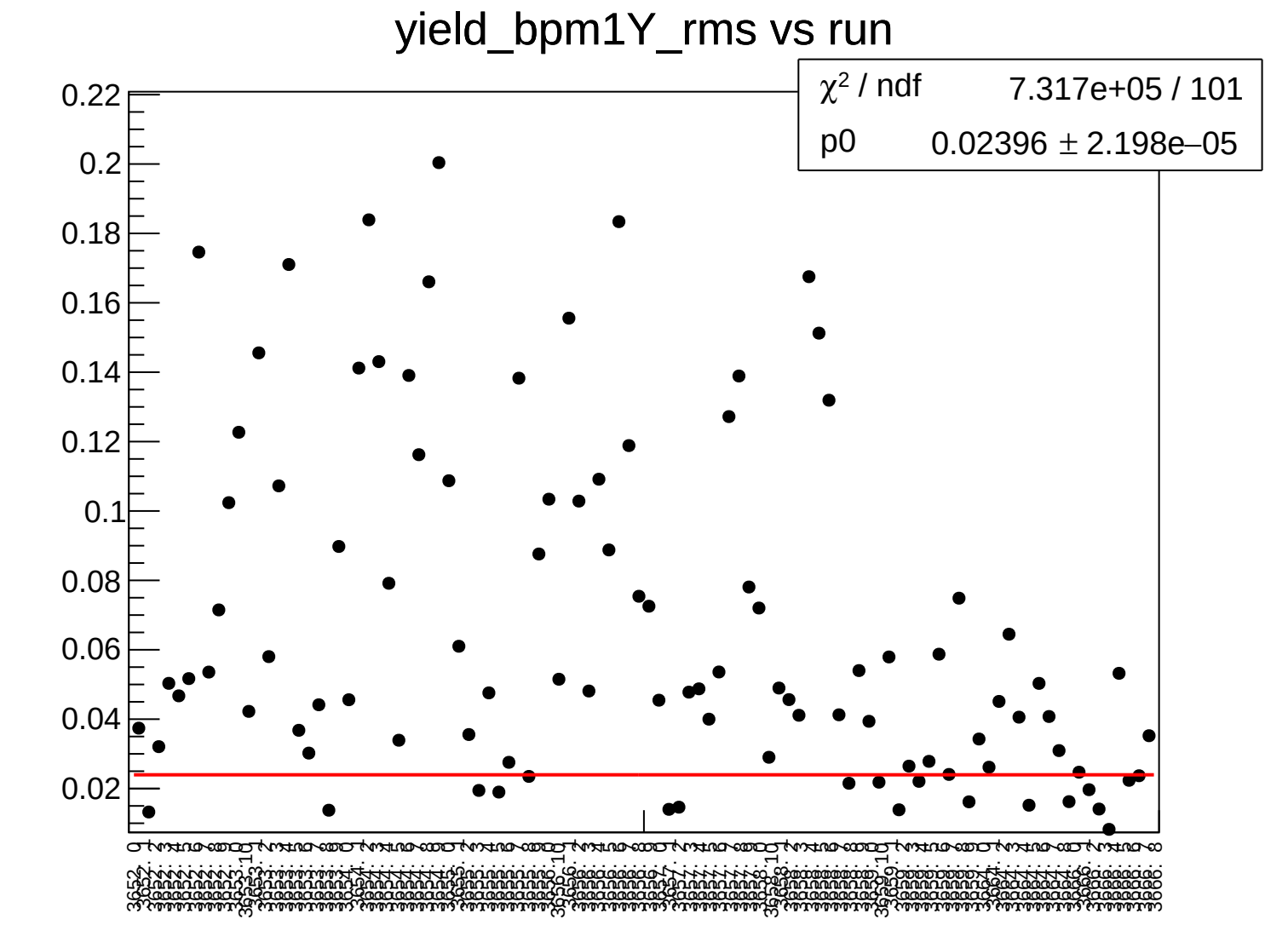

yield_bpm1X_mean vs run
χ² / ndf 3.268e+06 / 101
p0 −0.5891 ± 4.634e−05
−0.5
−0.6
−0.7
−0.8
−0.9
−1
pull
Entries 102
Mean −4.729
Std Dev 62.9
400
200
0
−200
−400
−600

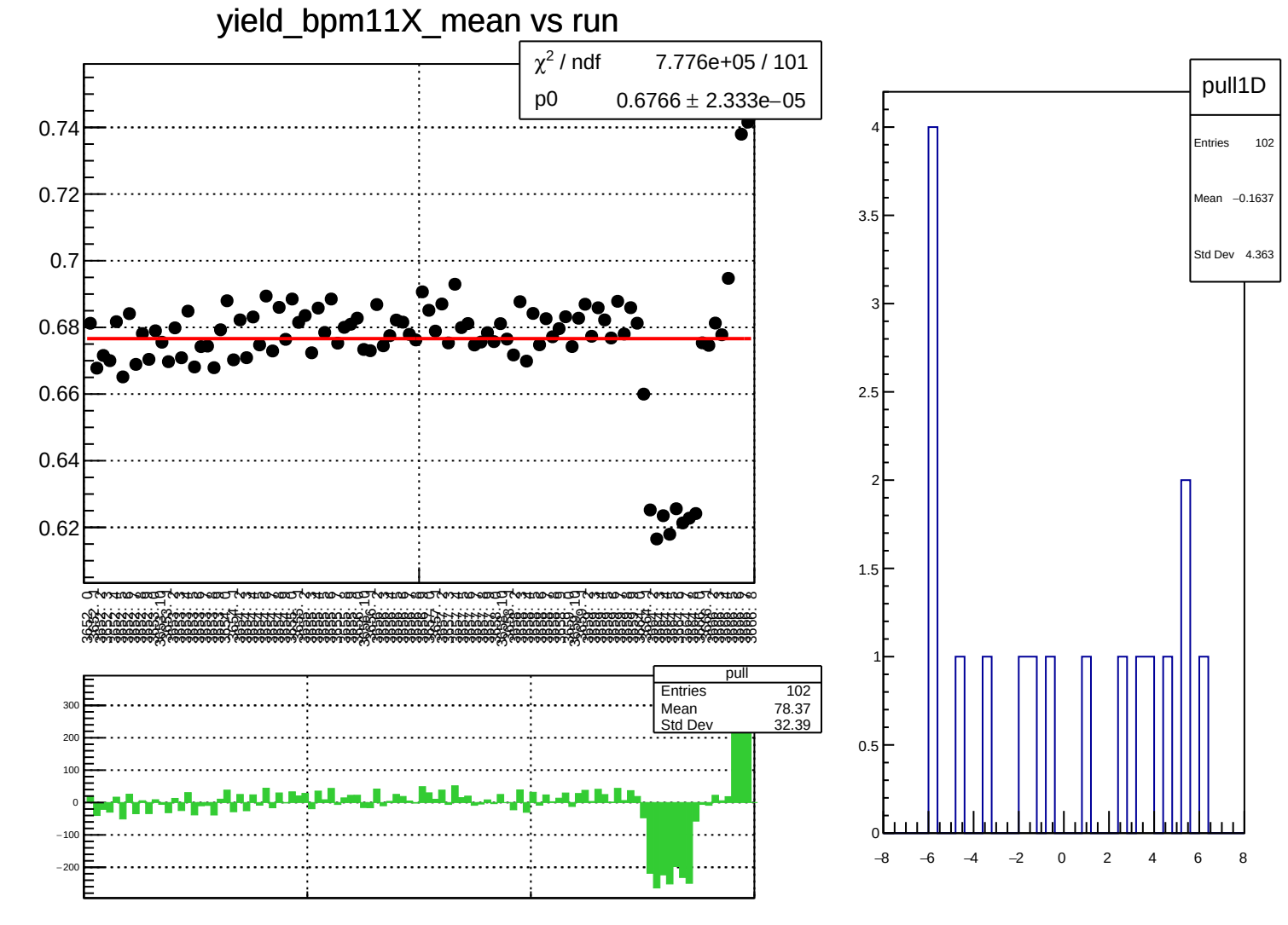

pull1D
Entries 102
Mean −1.986
Std Dev 5.136
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

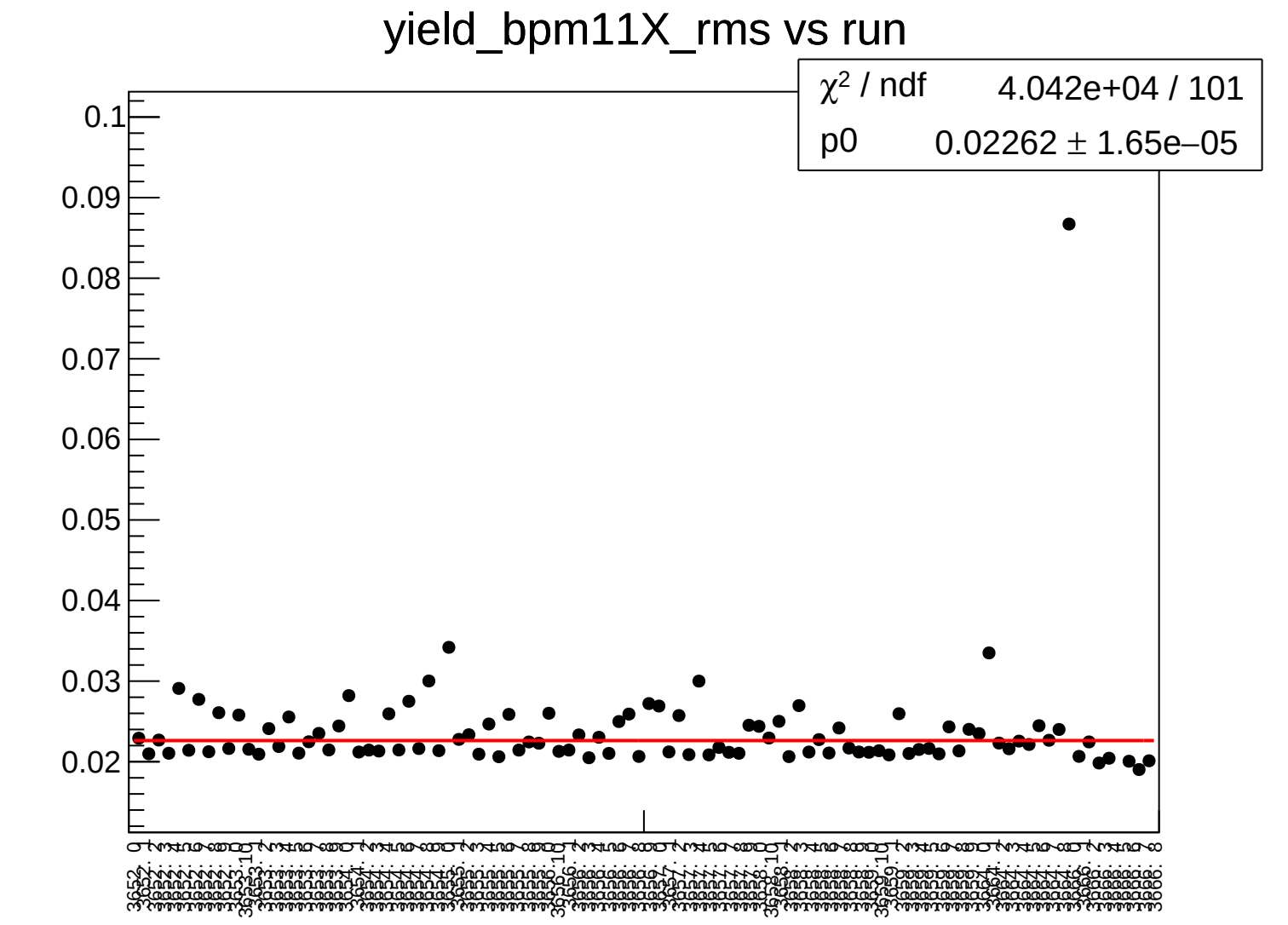

yield_bpm1X_rms vs run
χ² / ndf 5.575e+05 / 101
p0 0.03825 ± 3.277e–05
0.25
0.2
0.15
0.1
0.05

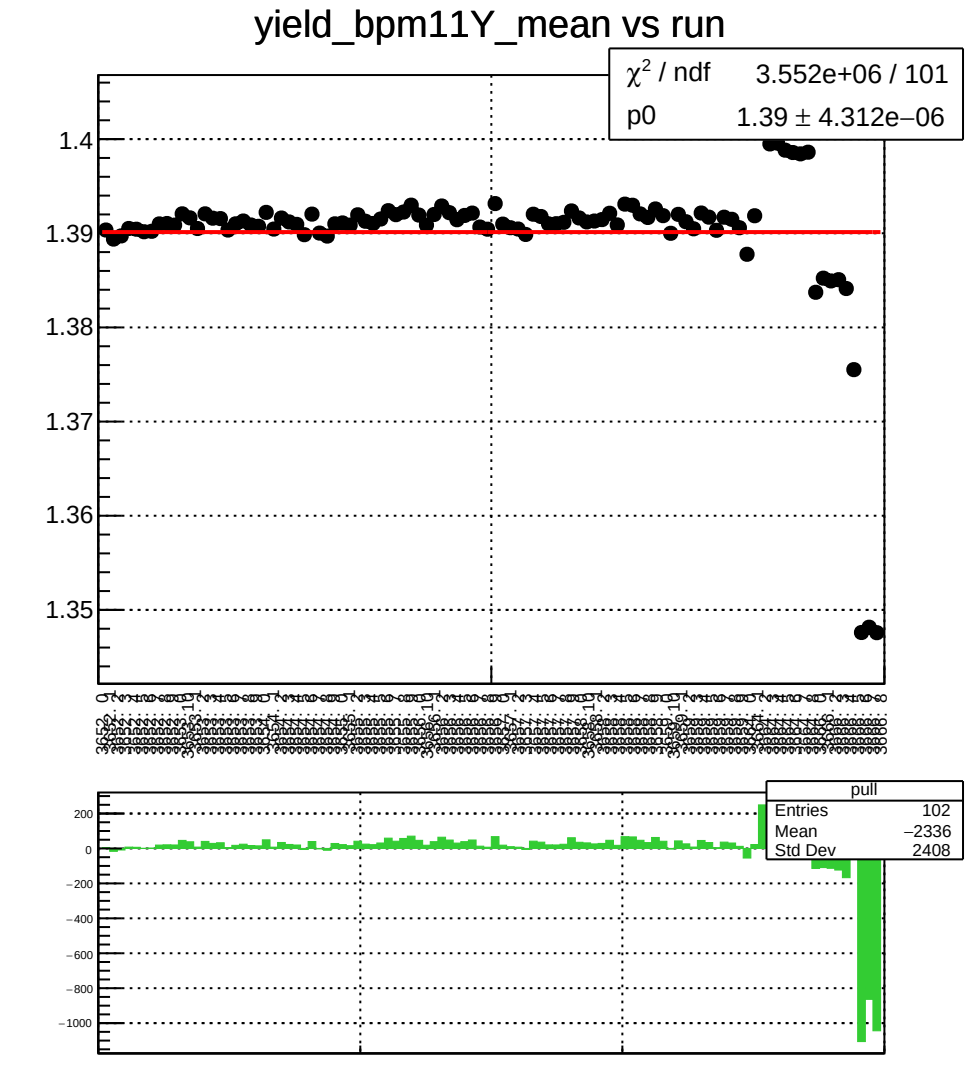

yield_bpm1Y_mean vs run
χ² / ndf 3.521e+06 / 101
p0 0.3664 ± 3.108e−05
pull
Entries 102
Mean 16.66
Std Dev 35.52

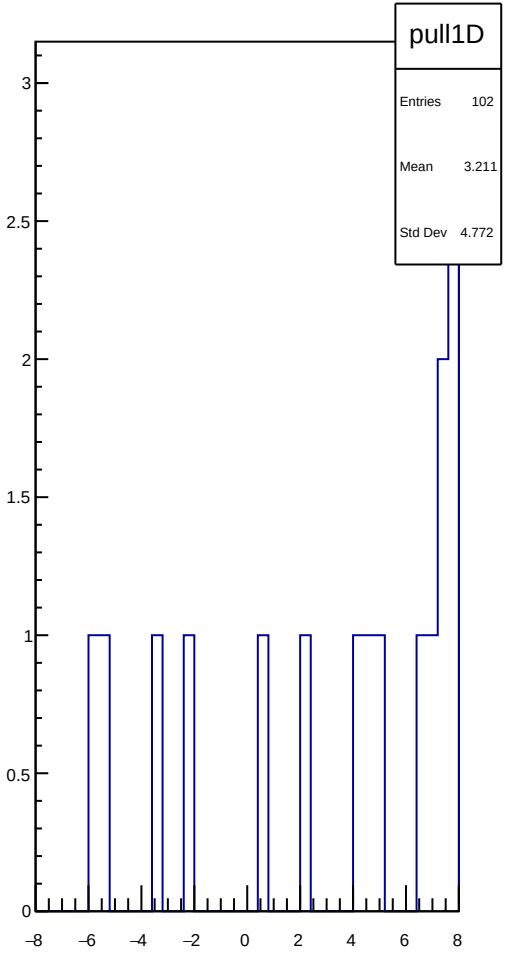

pull1D
Entries 102
Mean 0.6278
Std Dev 1.277

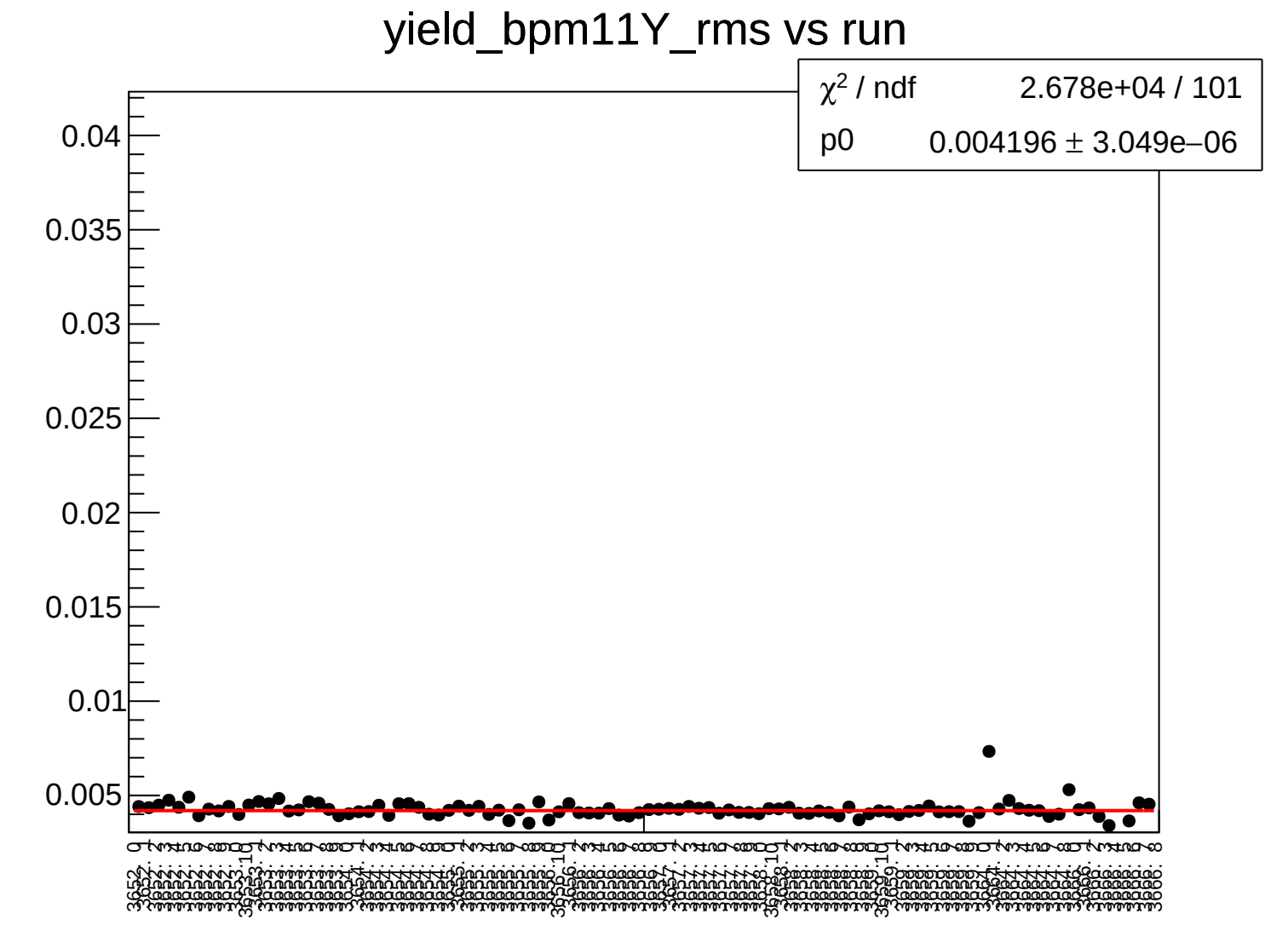

yield_bpm1Y_rms vs run
χ² / ndf 7.317e+05 / 101
p0 0.02396 ± 2.198e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

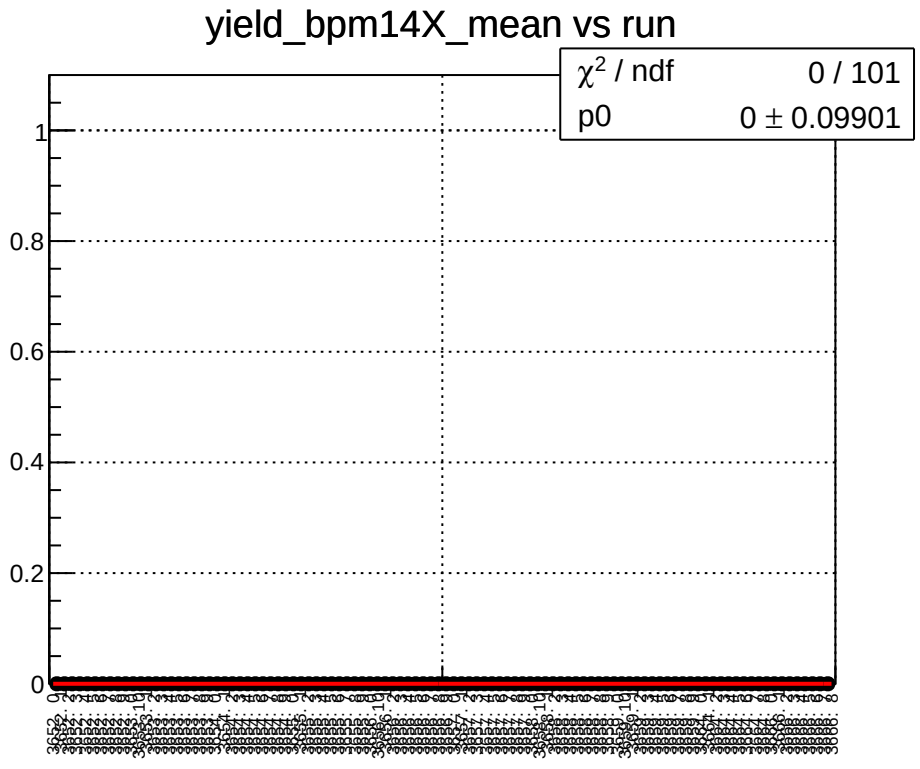

yield_bpm11X_mean vs run
χ² / ndf 7.776e+05 / 101
p0 0.6766 ± 2.333e−05
0.74
0.72
0.7
0.68
0.66
0.64
0.62
pull
Entries 102
Mean 78.37
Std Dev 32.39
300
200
100
0
−100
−200
pull1D
Entries 102
Mean −0.1637
Std Dev 4.363
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

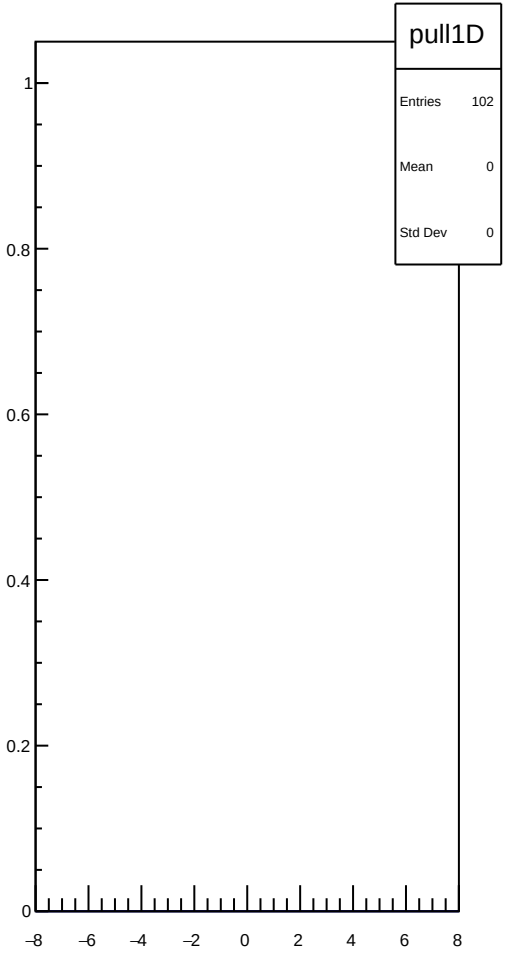

yield_bpm11X_rms vs run
χ² / ndf 4.042e+04 / 101
p0 0.02262 ± 1.65e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

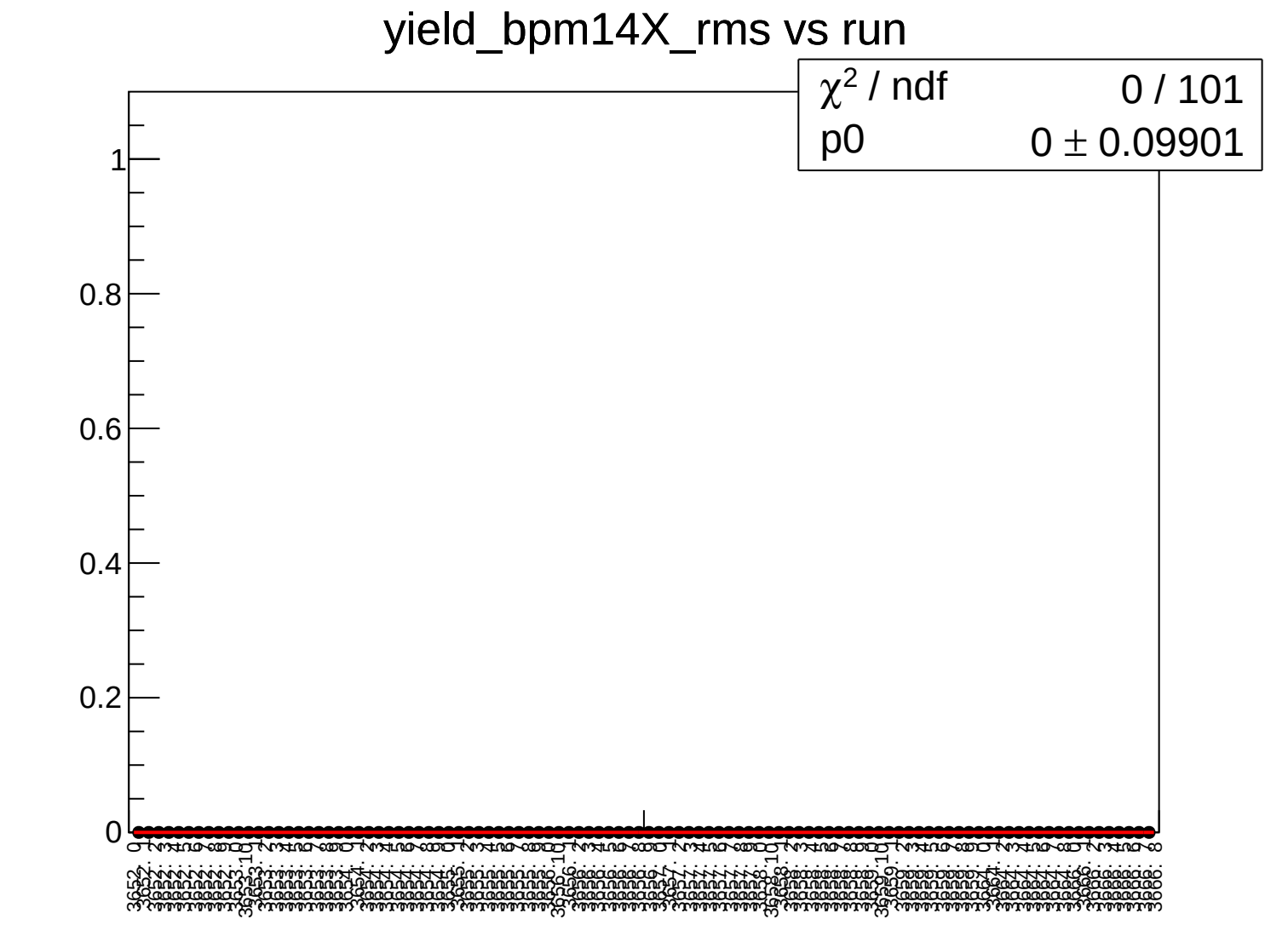

yield_bpm11Y_mean vs run
χ² / ndf 3.552e+06 / 101
p0 1.39 ± 4.312e−06
1.4
1.39
1.38
1.37
1.36
1.35
pull
Entries 102
Mean −2336
Std Dev 2408
200
0
−200
−400
−600
−800
−1000

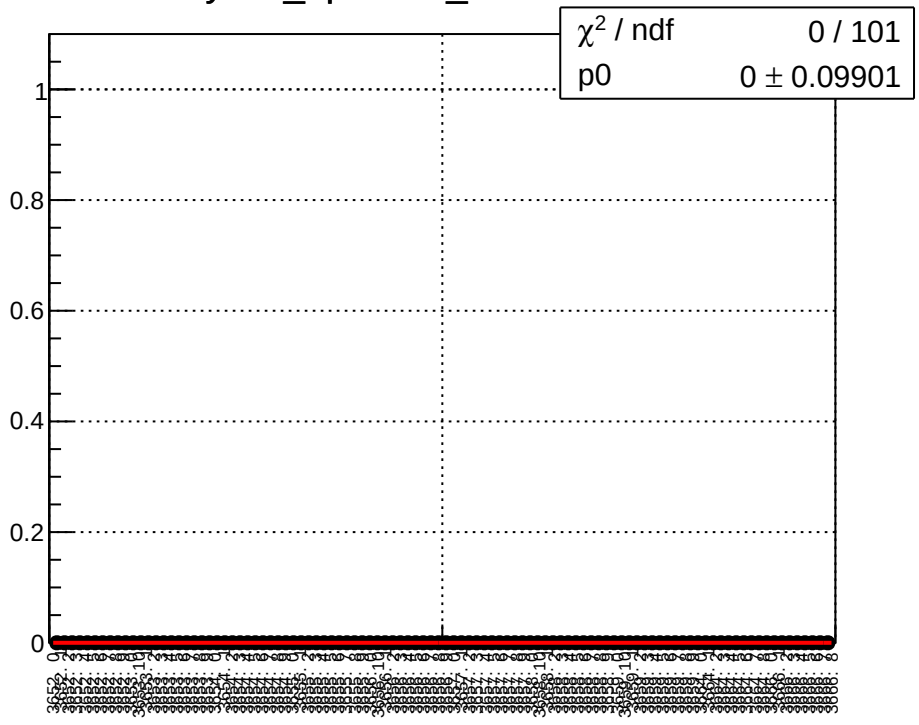

pull1D
Entries 102
Mean 3.211
Std Dev 4.772
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

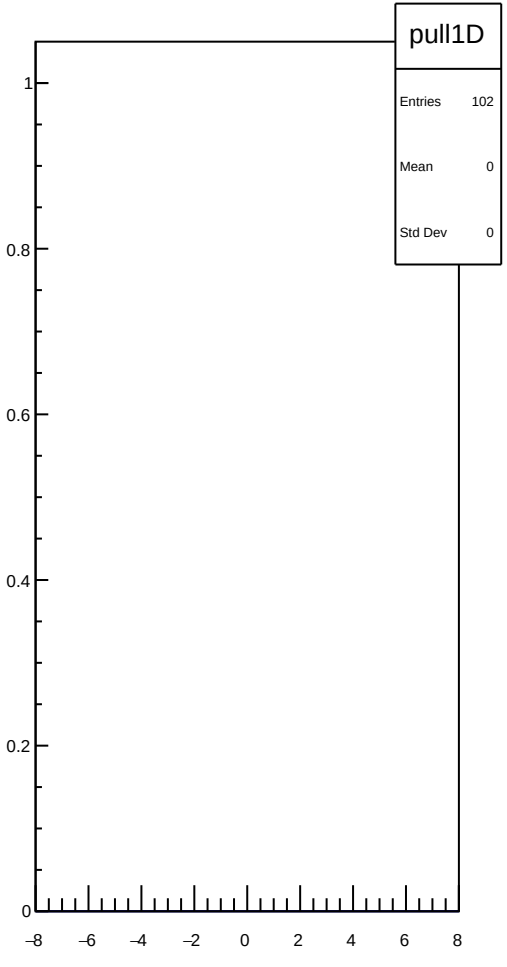

yield_bpm11Y_rms vs run
χ² / ndf 2.678e+04 / 101
p0 0.004196 ± 3.049e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

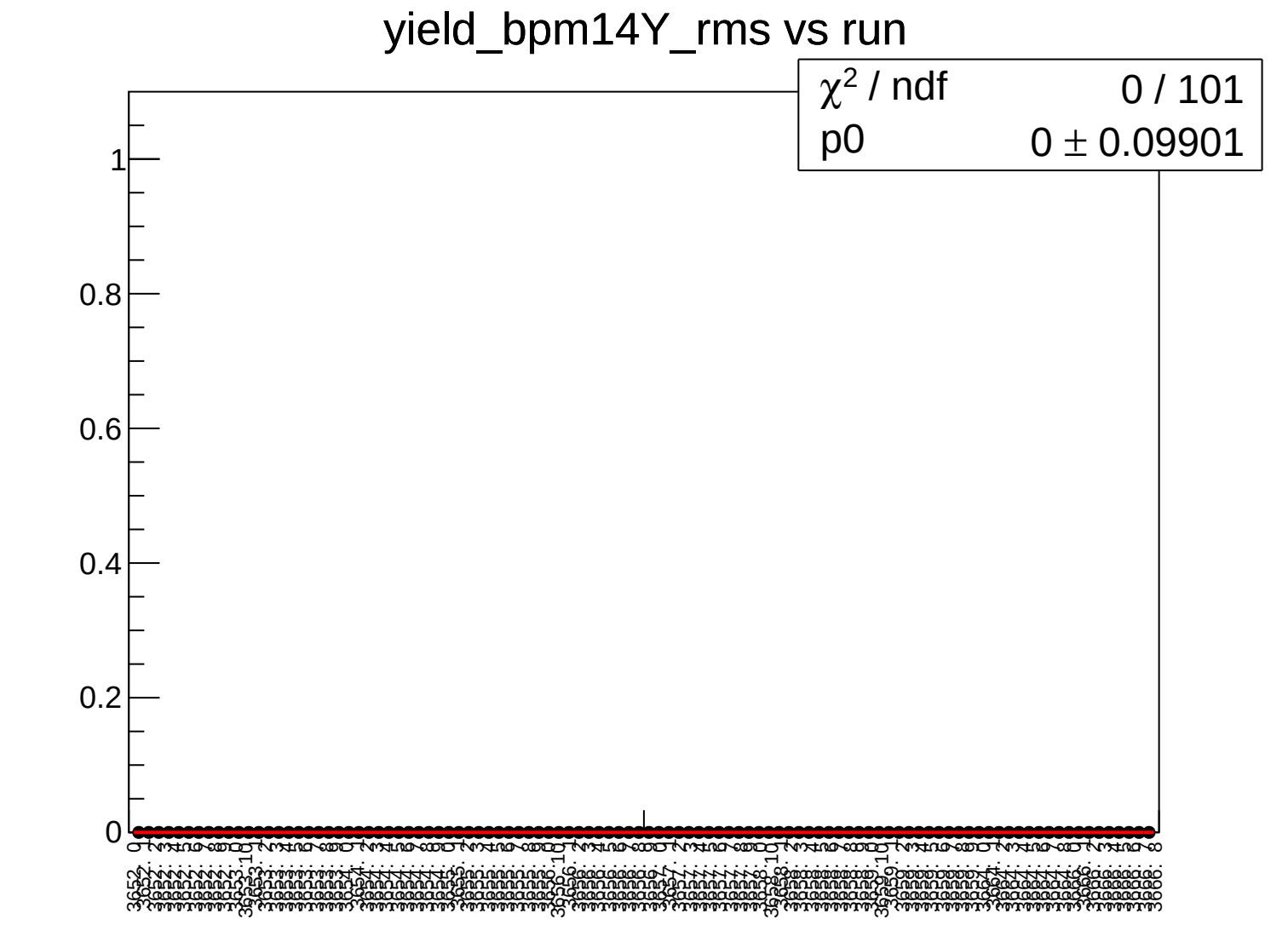

yield_bpm14X_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

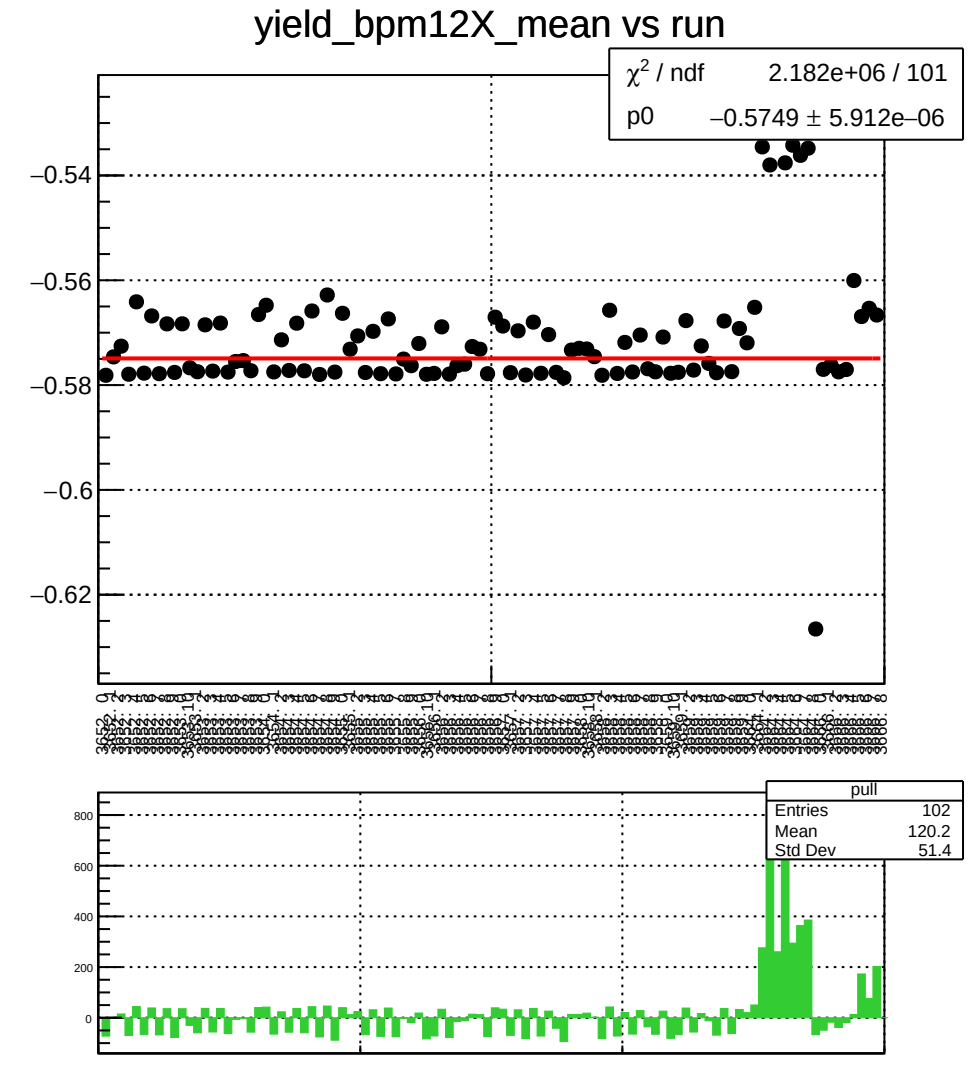

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

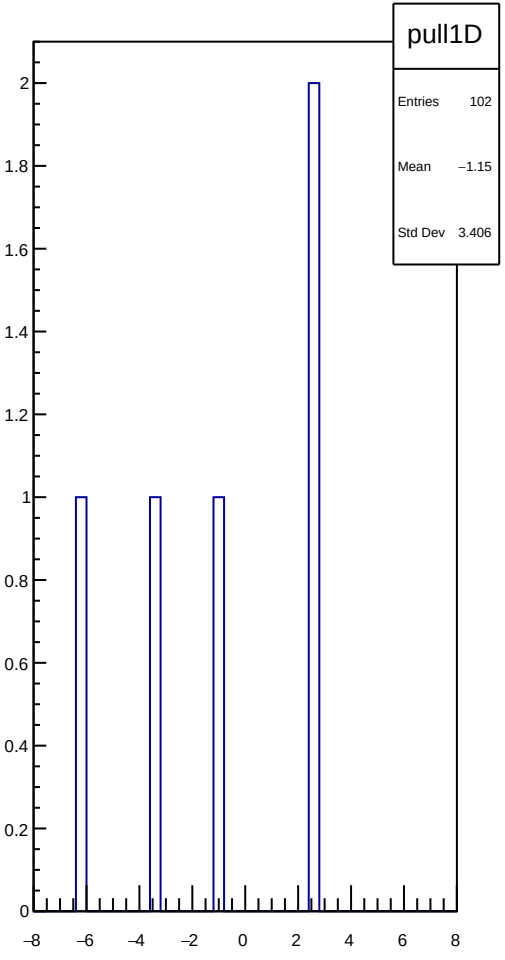

yield_bpm14X_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

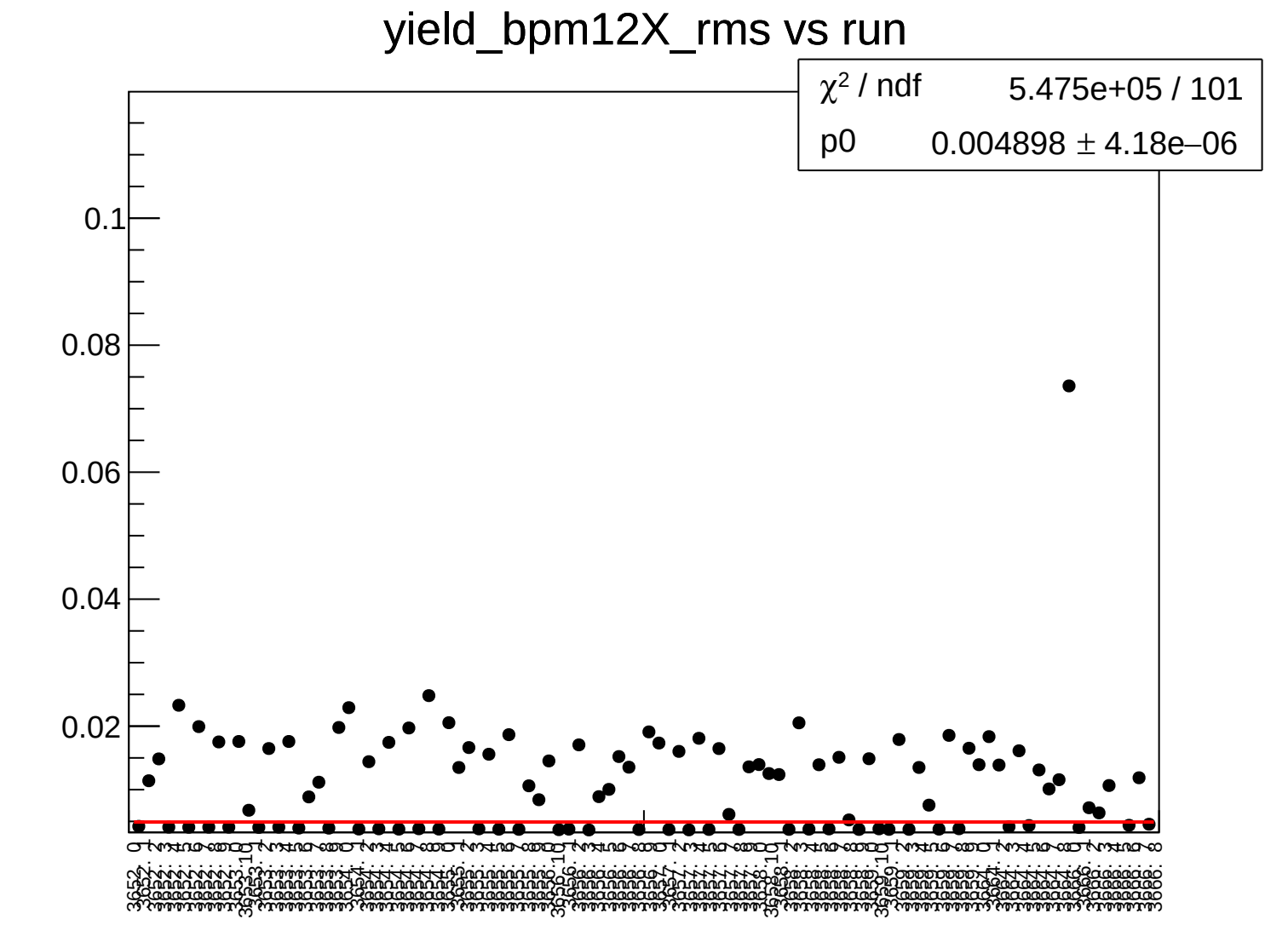

yield_bpm14Y_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

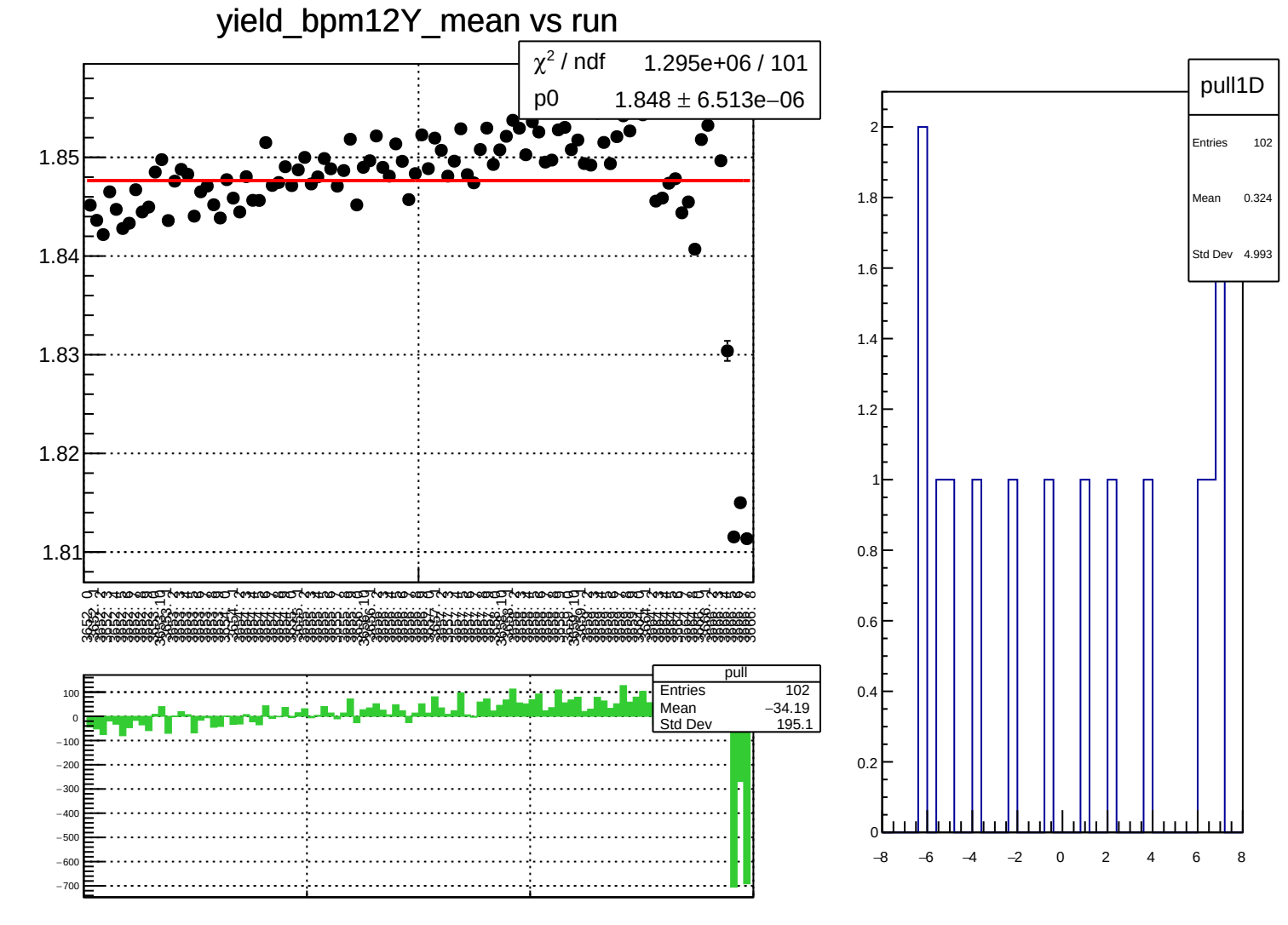

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

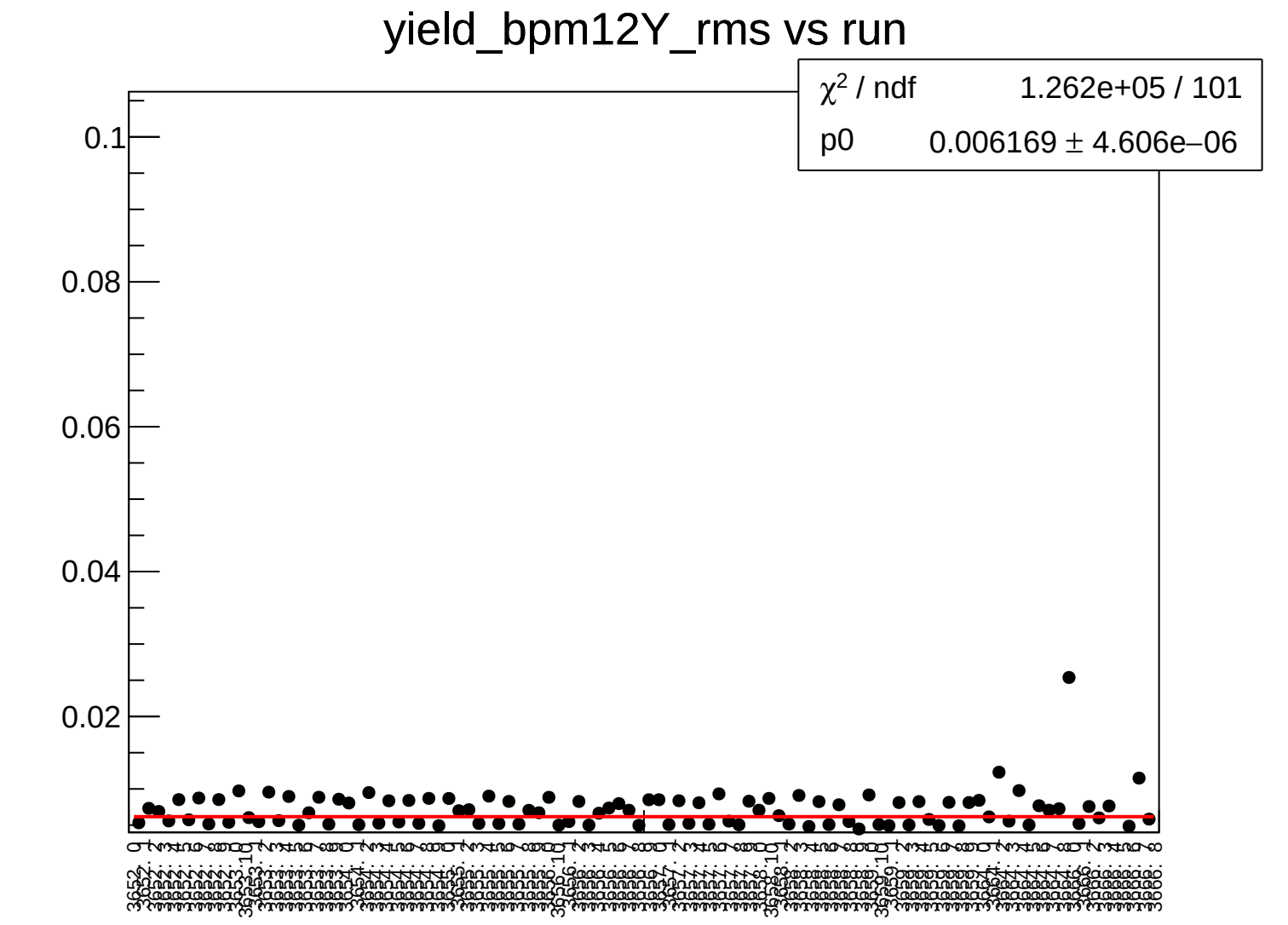

yield_bpm14Y_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

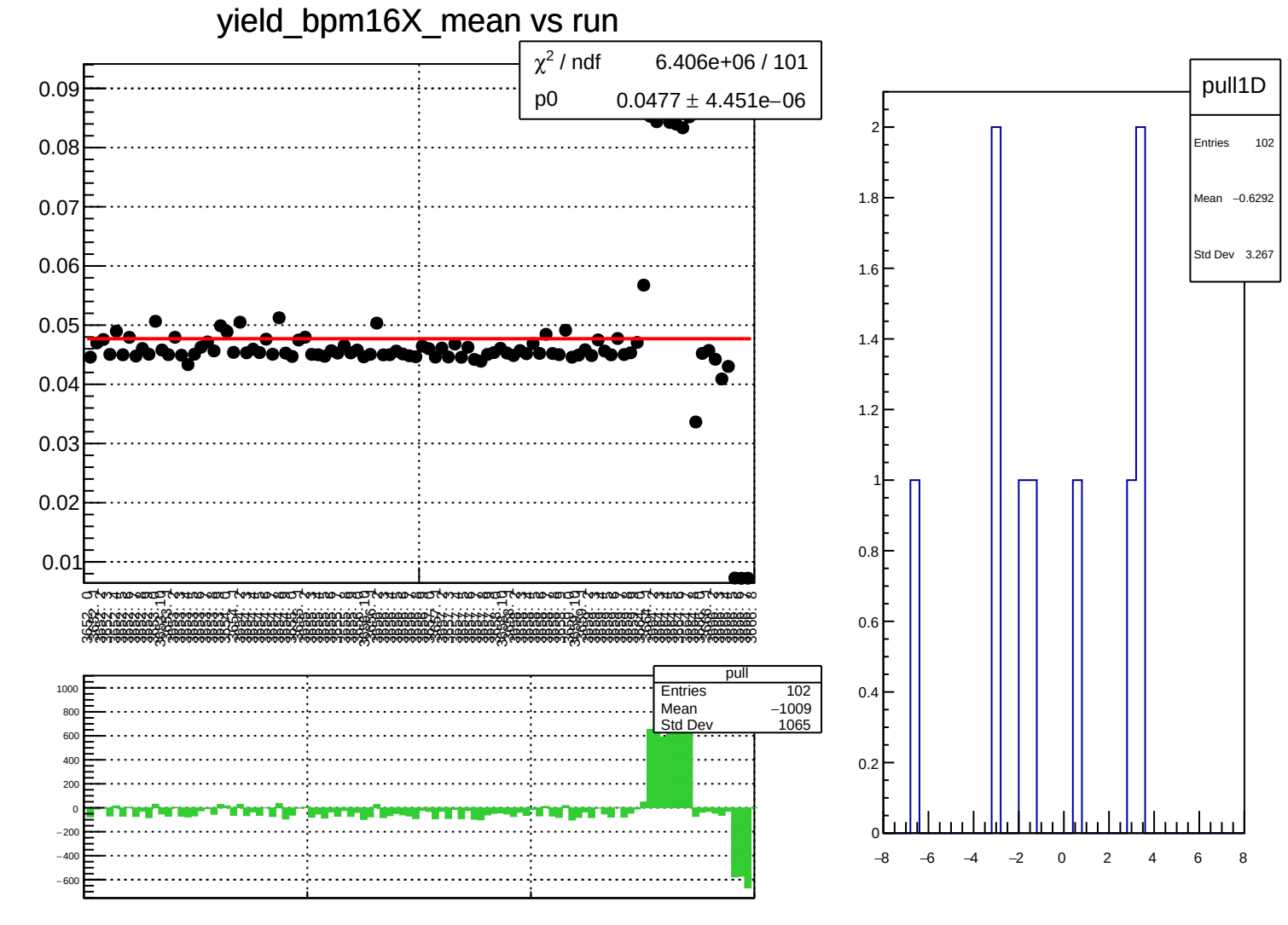

yield_bpm12X_mean vs run
χ² / ndf 2.182e+06 / 101
p0 −0.5749 ± 5.912e−06
−0.54
−0.56
−0.58
−0.6
−0.62
pull
Entries 102
Mean 120.2
Std Dev 51.4
800
600
400
200
0

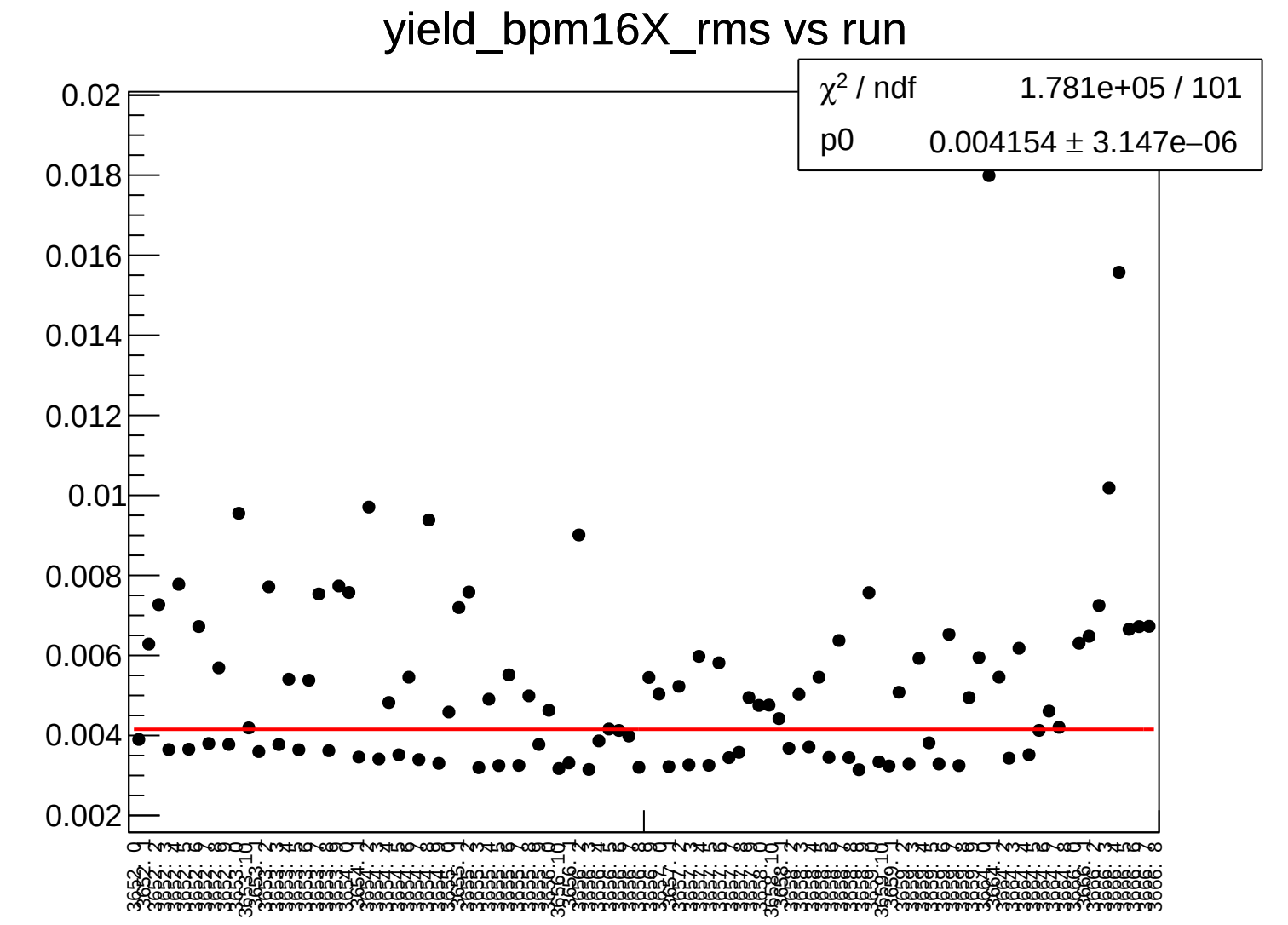

pull1D
Entries 102
Mean −1.15
Std Dev 3.406
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

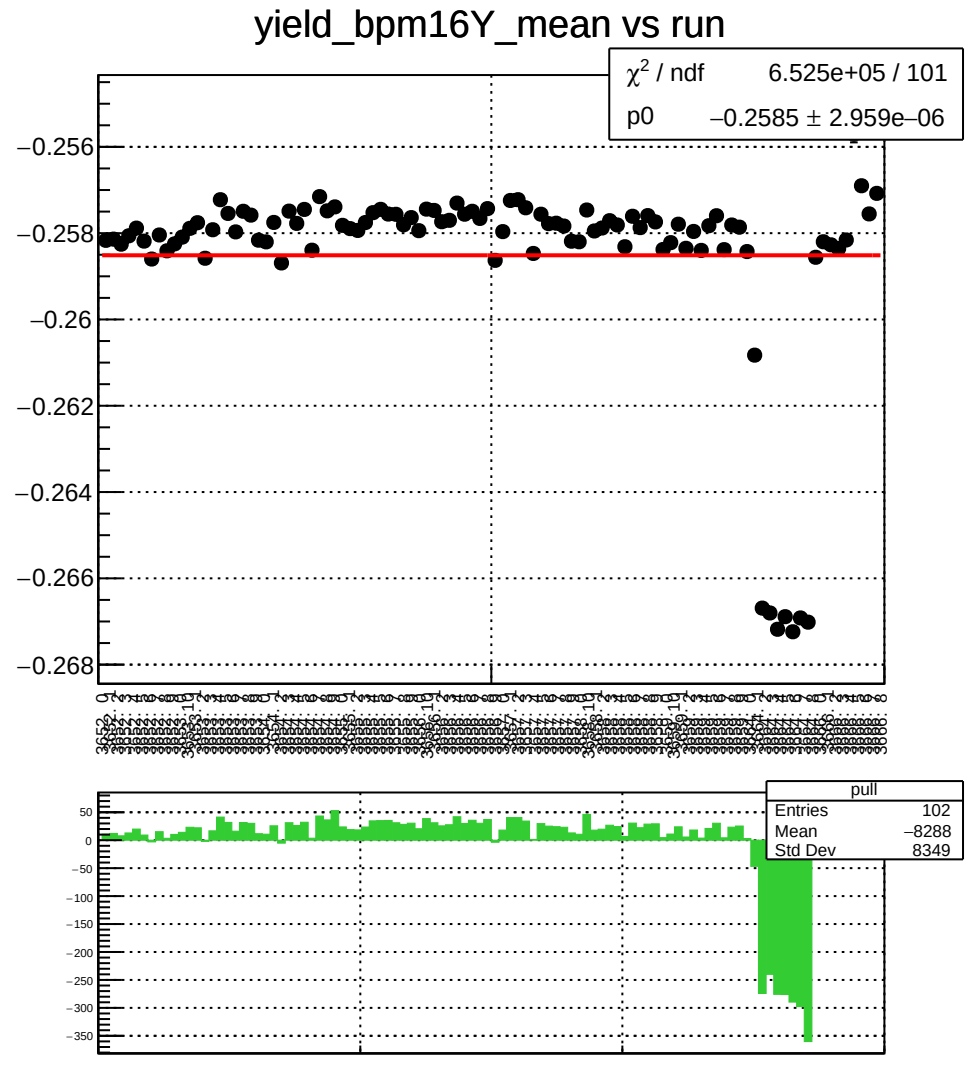

yield_bpm12X_rms vs run
χ² / ndf 5.475e+05 / 101
p0 0.004898 ± 4.18e–06
0.1
0.08
0.06
0.04
0.02

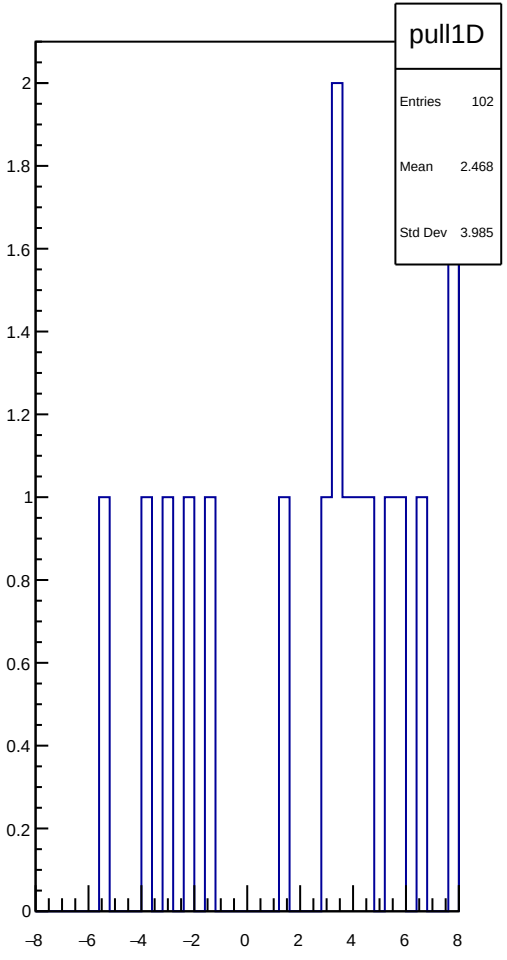

yield_bpm12Y_mean vs run
χ² / ndf 1.295e+06 / 101
p0 1.848 ± 6.513e−06
1.85
1.84
1.83
1.82
1.81
pull
Entries 102
Mean −34.19
Std Dev 195.1
100
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 102
Mean 0.324
Std Dev 4.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

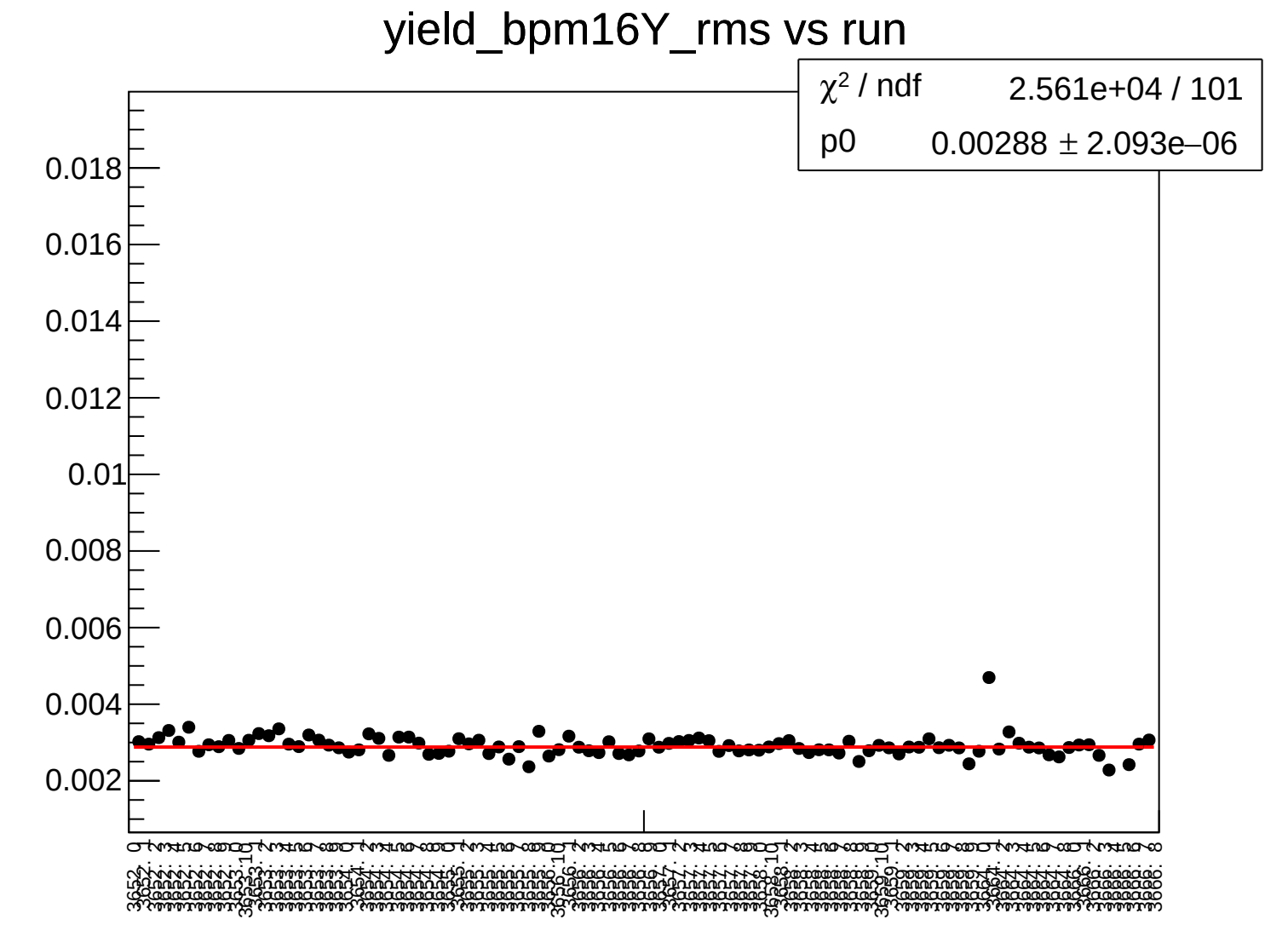

yield_bpm12Y_rms vs run
χ² / ndf 1.262e+05 / 101
p0 0.006169 ± 4.606e−06
0.1
0.08
0.06
0.04
0.02

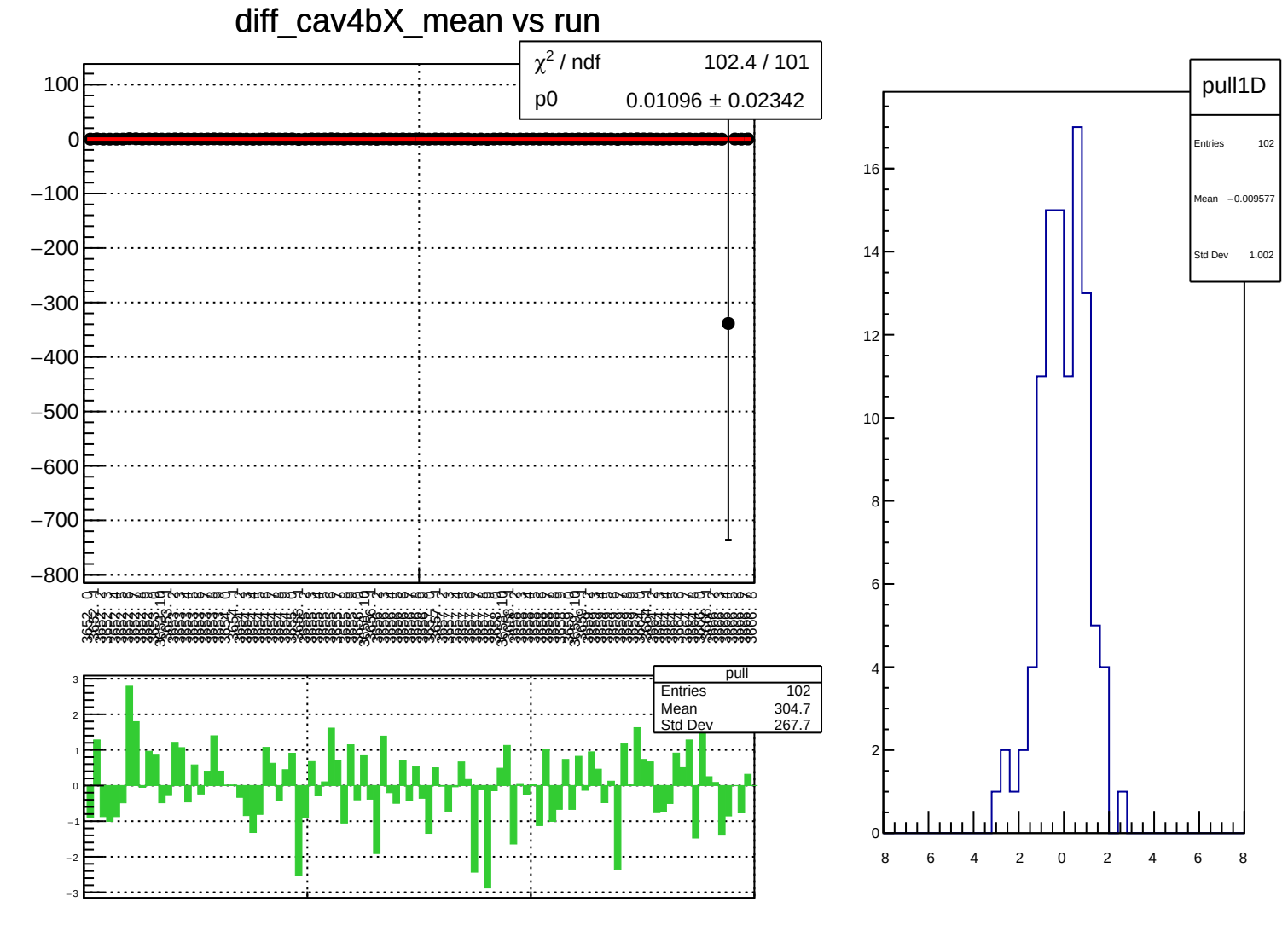

yield_bpm16X_mean vs run
χ² / ndf 6.406e+06 / 101
p0 0.0477 ± 4.451e−06
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 102
Mean −1009
Std Dev 1065
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 102
Mean −0.6292
Std Dev 3.267
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

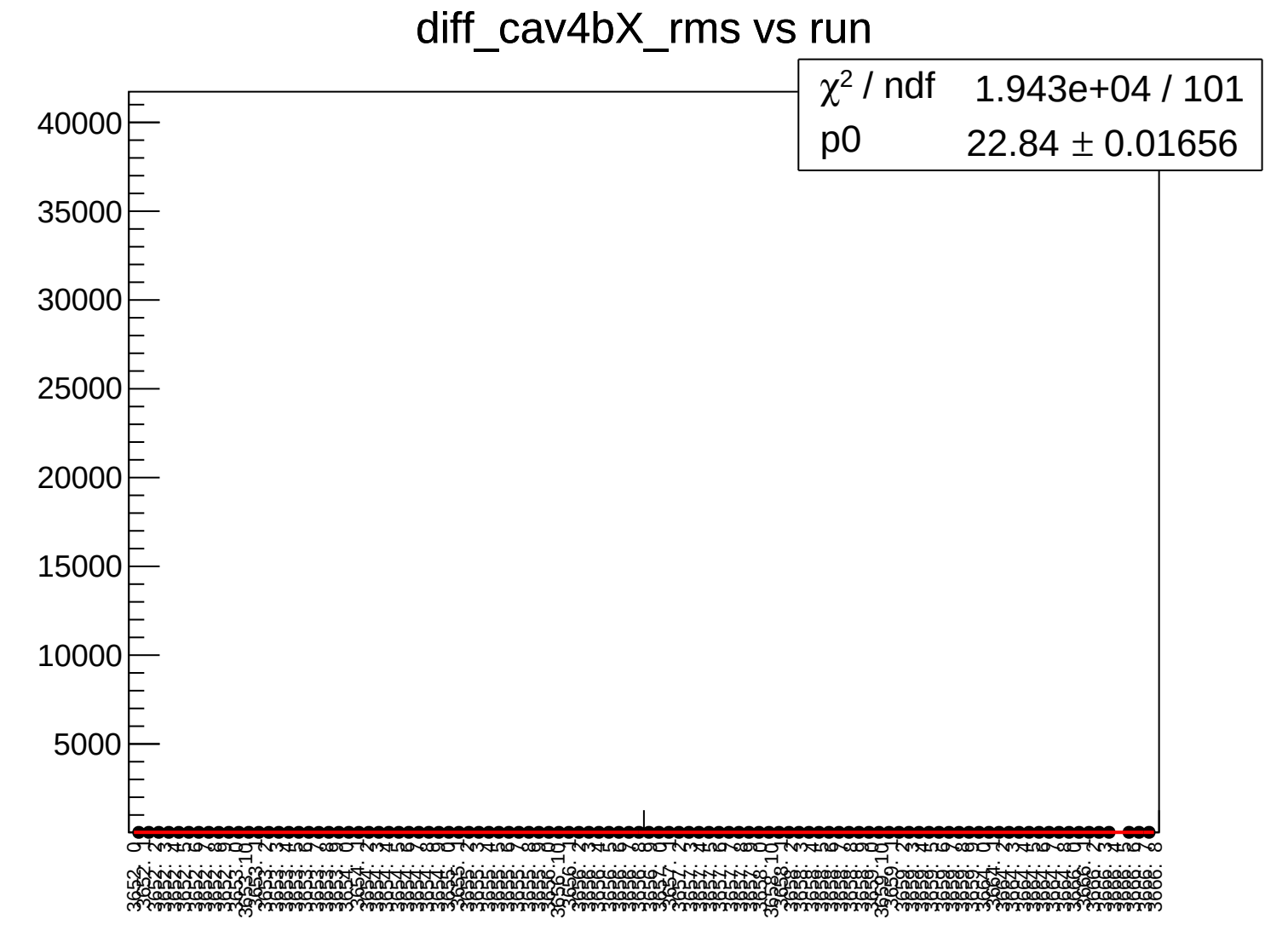

yield_bpm16X_rms vs run
χ² / ndf 1.781e+05 / 101
p0 0.004154 ± 3.147e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

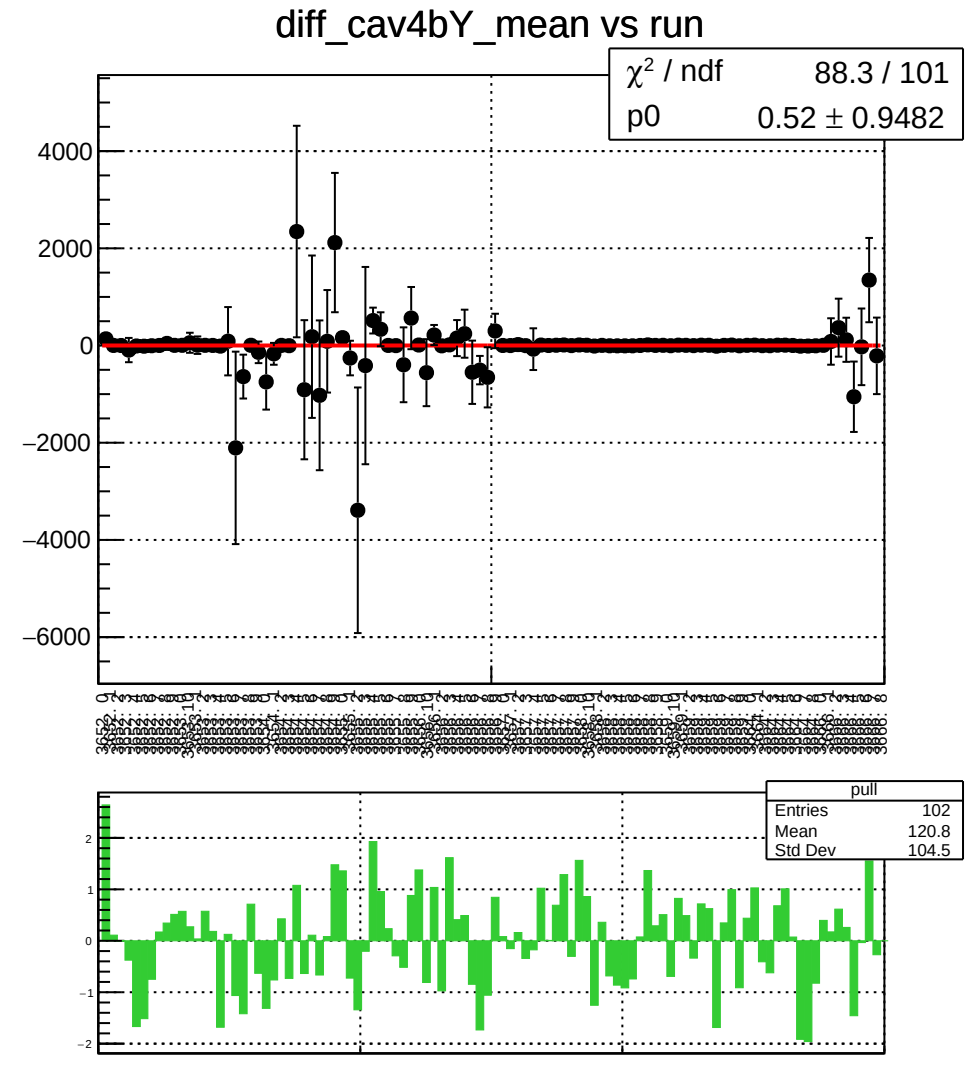

yield_bpm16Y_mean vs run
χ² / ndf 6.525e+05 / 101
p0 −0.2585 ± 2.959e−06
−0.256
−0.258
−0.26
−0.262
−0.264
−0.266
−0.268
pull
Entries 102
Mean −8288
Std Dev 8349
50
0
−50
−100
−150
−200
−250
−300
−350

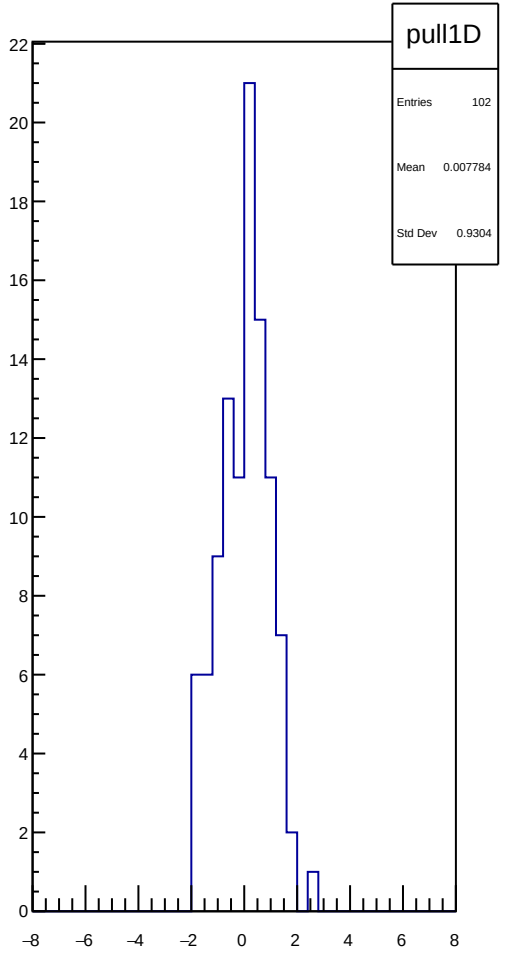

pull1D
Entries 102
Mean 2.468
Std Dev 3.985
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

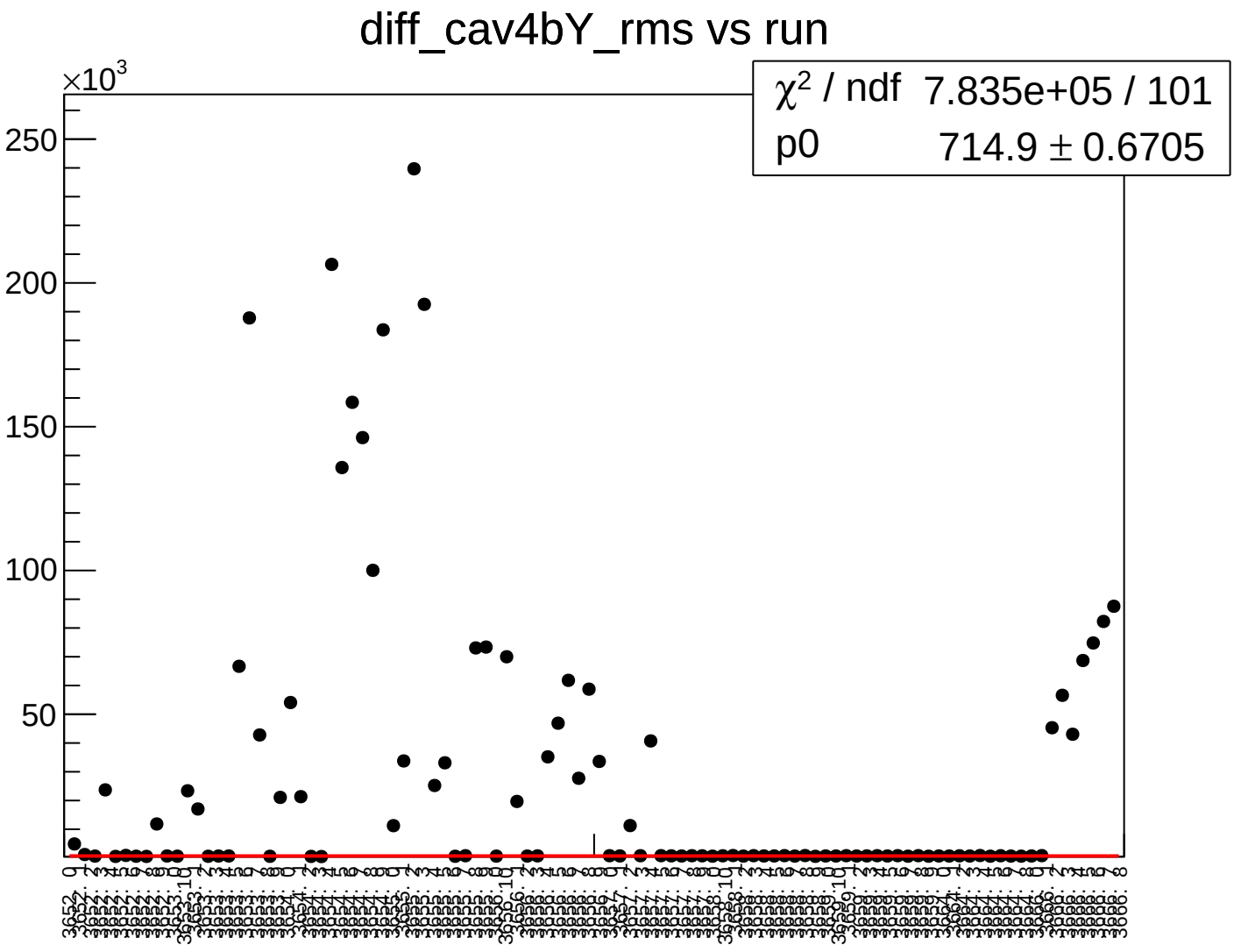

yield_bpm16Y_rms vs run
χ² / ndf 2.561e+04 / 101
p0 0.00288 ± 2.093e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

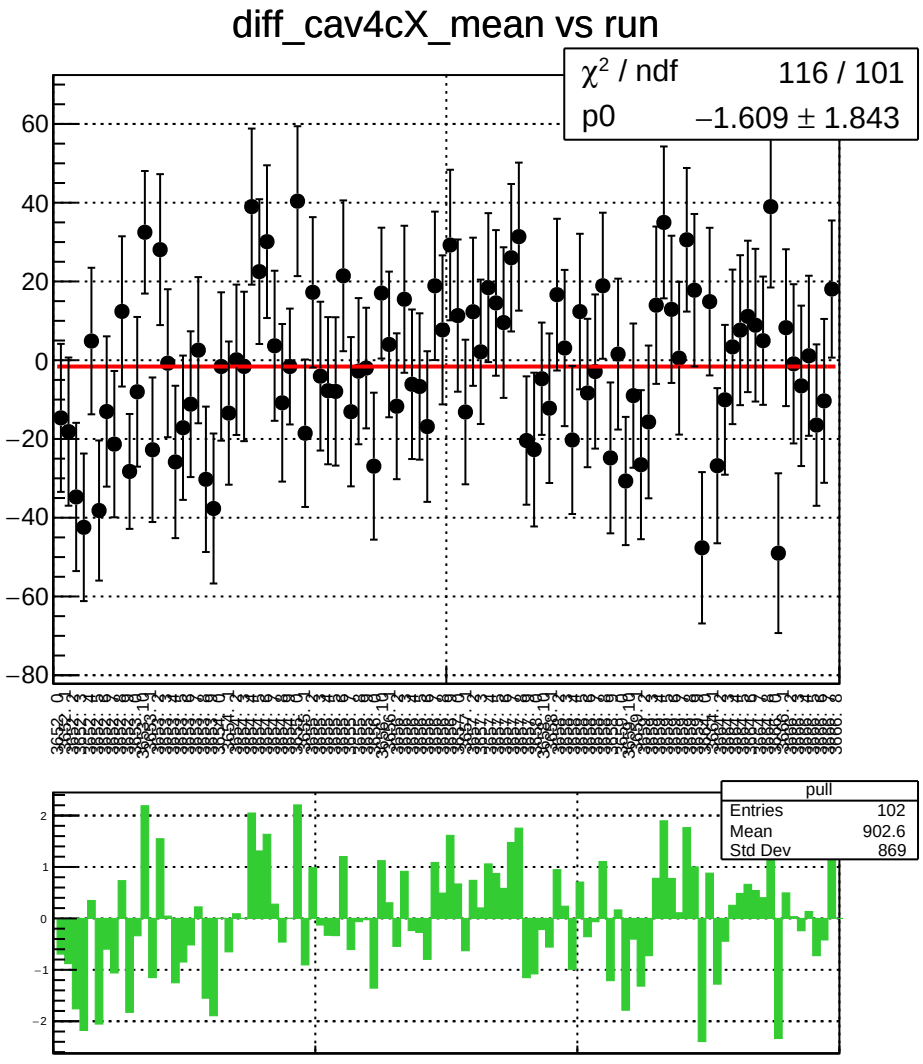

diff_cav4bX_mean vs run
χ² / ndf 102.4 / 101
p0 0.01096 ± 0.02342
pull
Entries 102
Mean 304.7
Std Dev 267.7
pull1D
Entries 102
Mean −0.009577
Std Dev 1.002

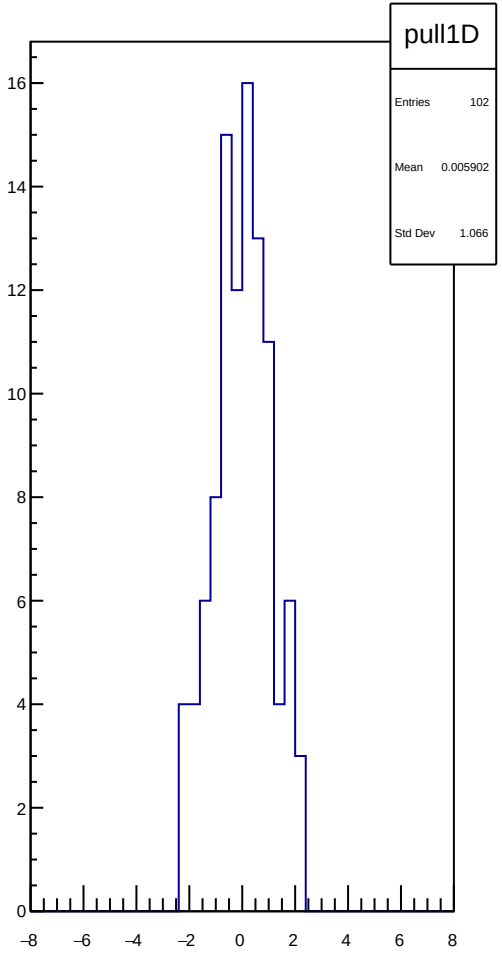

diff_cav4bX_rms vs run
χ^2 / ndf 1.943e+04 / 101
p0 22.84 ± 0.01656
40000
35000
30000
25000
20000
15000
10000
5000

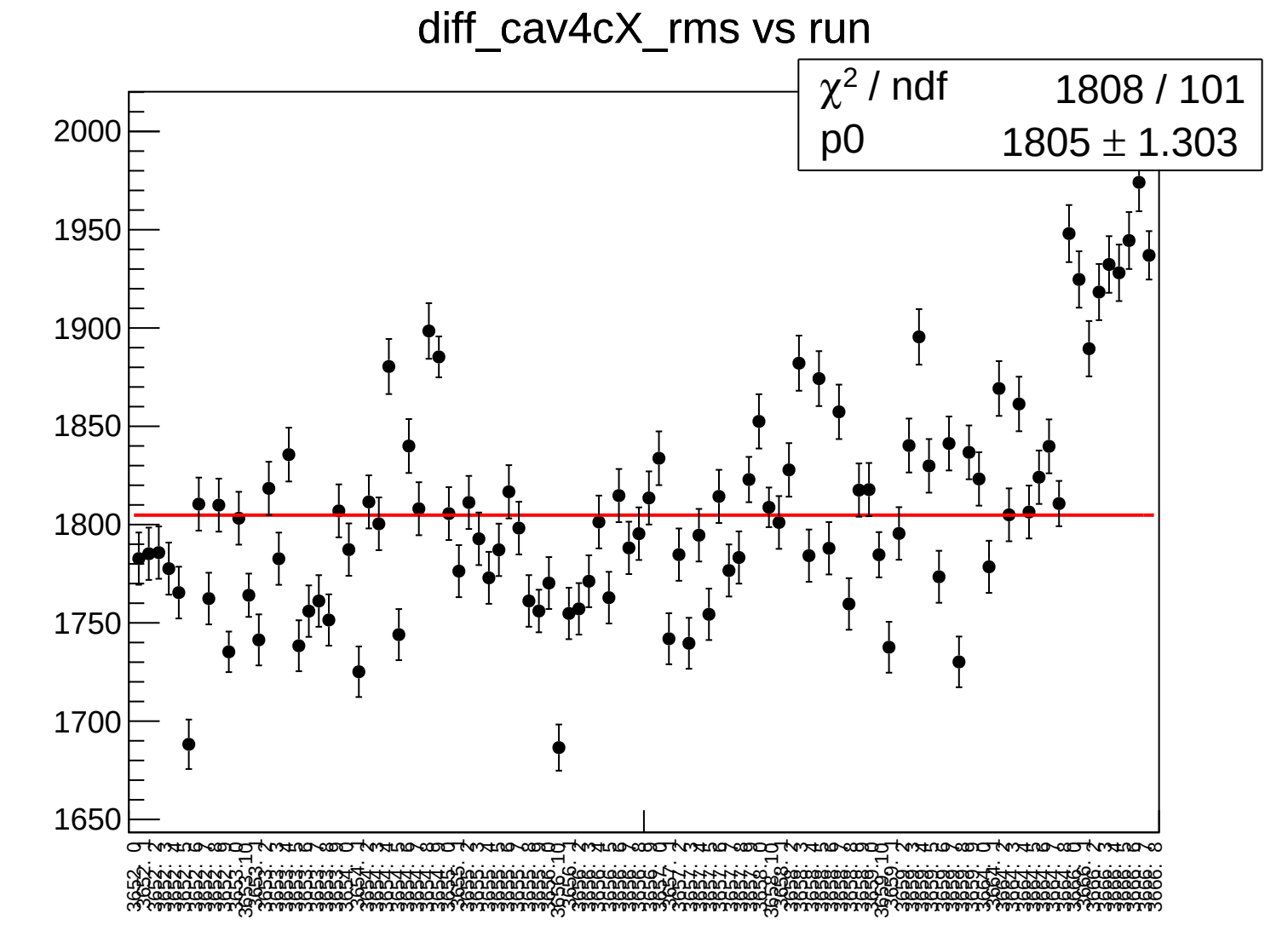

diff_cav4bY_mean vs run
χ² / ndf 88.3 / 101
p0 0.52 ± 0.9482
4000
2000
0
−2000
−4000
−6000
pull
Entries 102
Mean 120.8
Std Dev 104.5
2
1
0
−1
−2

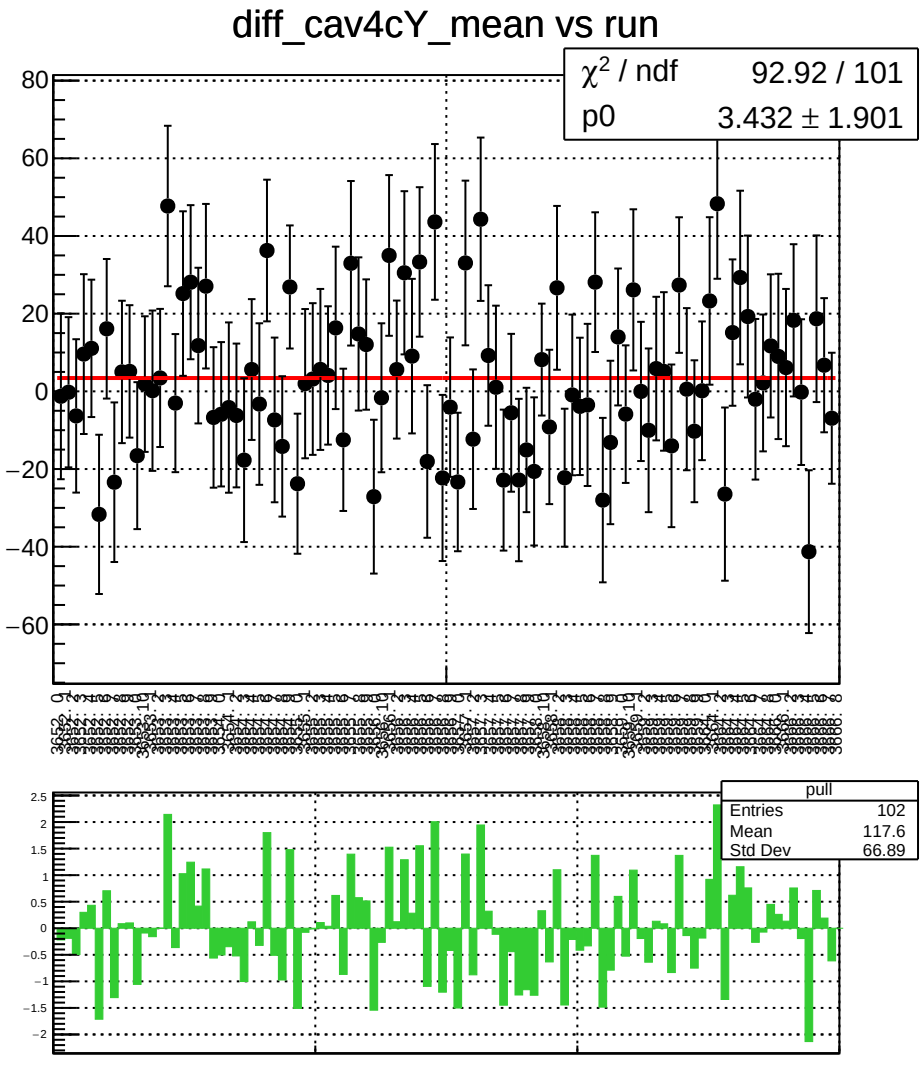

pull1D
Entries 102
Mean 0.007784
Std Dev 0.9304
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

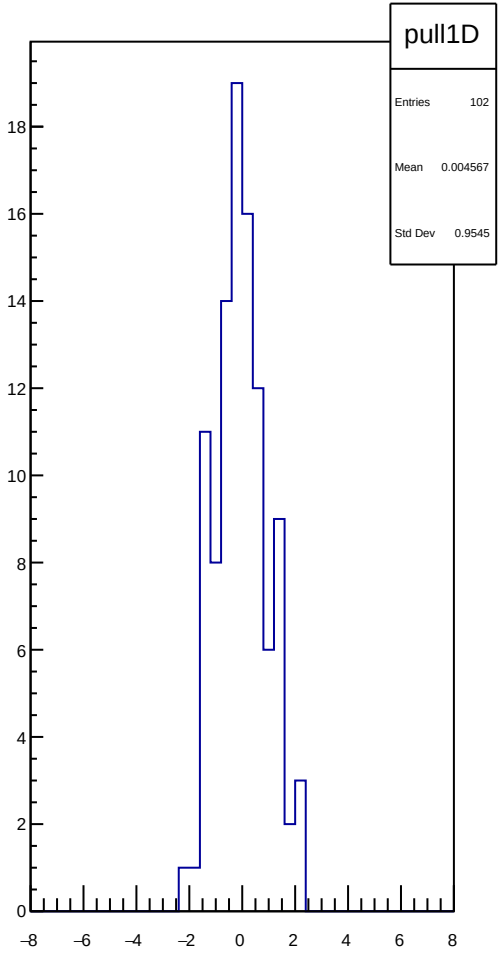

diff_cav4bY_rms vs run
×10^3
250
200
150
100
50
χ² / ndf 7.835e+05 / 101
p0 714.9 ± 0.6705

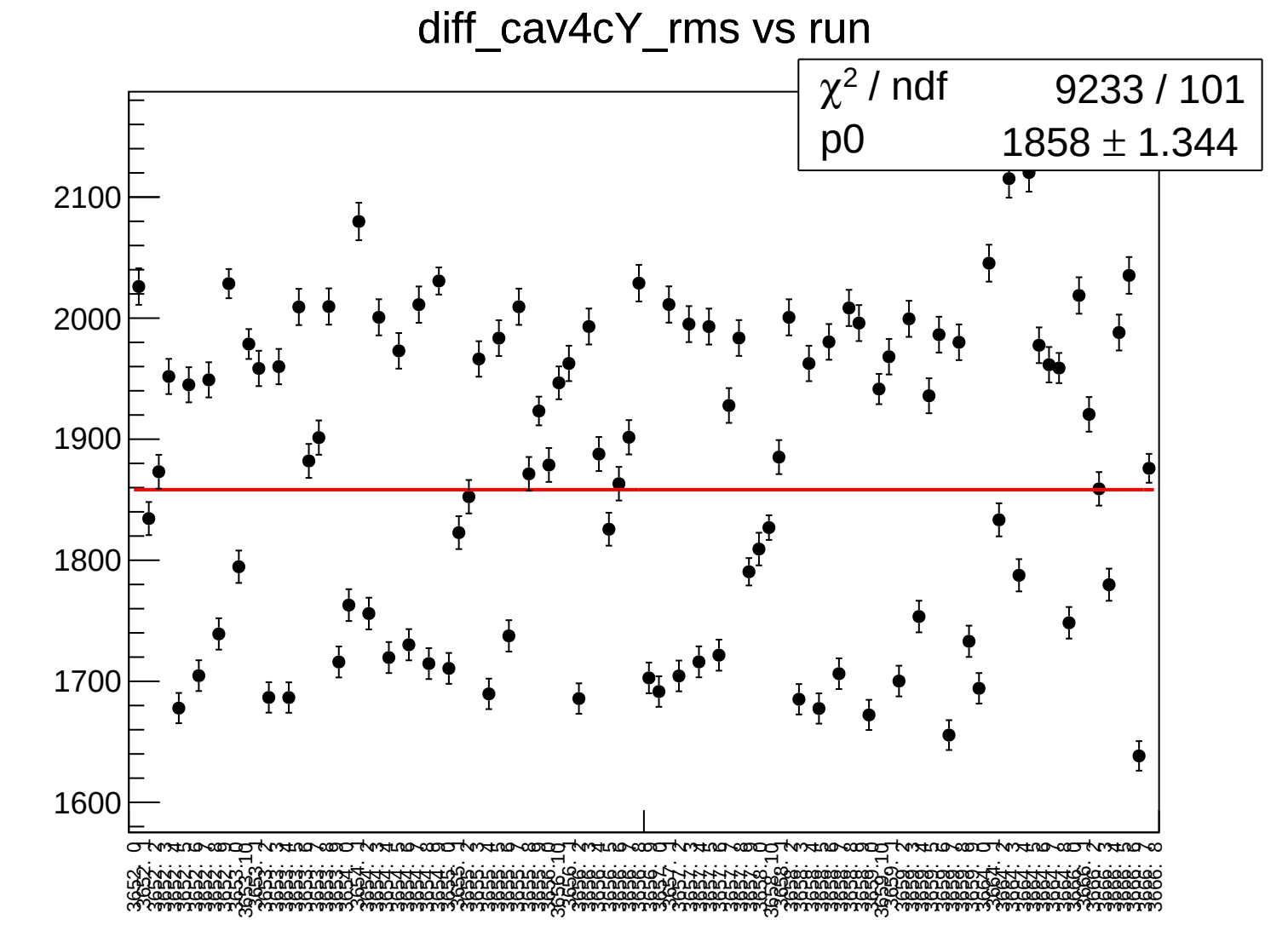

diff_cav4cX_mean vs run
χ² / ndf 116 / 101
p0 −1.609 ± 1.843
pull
Entries 102
Mean 902.6
Std Dev 869

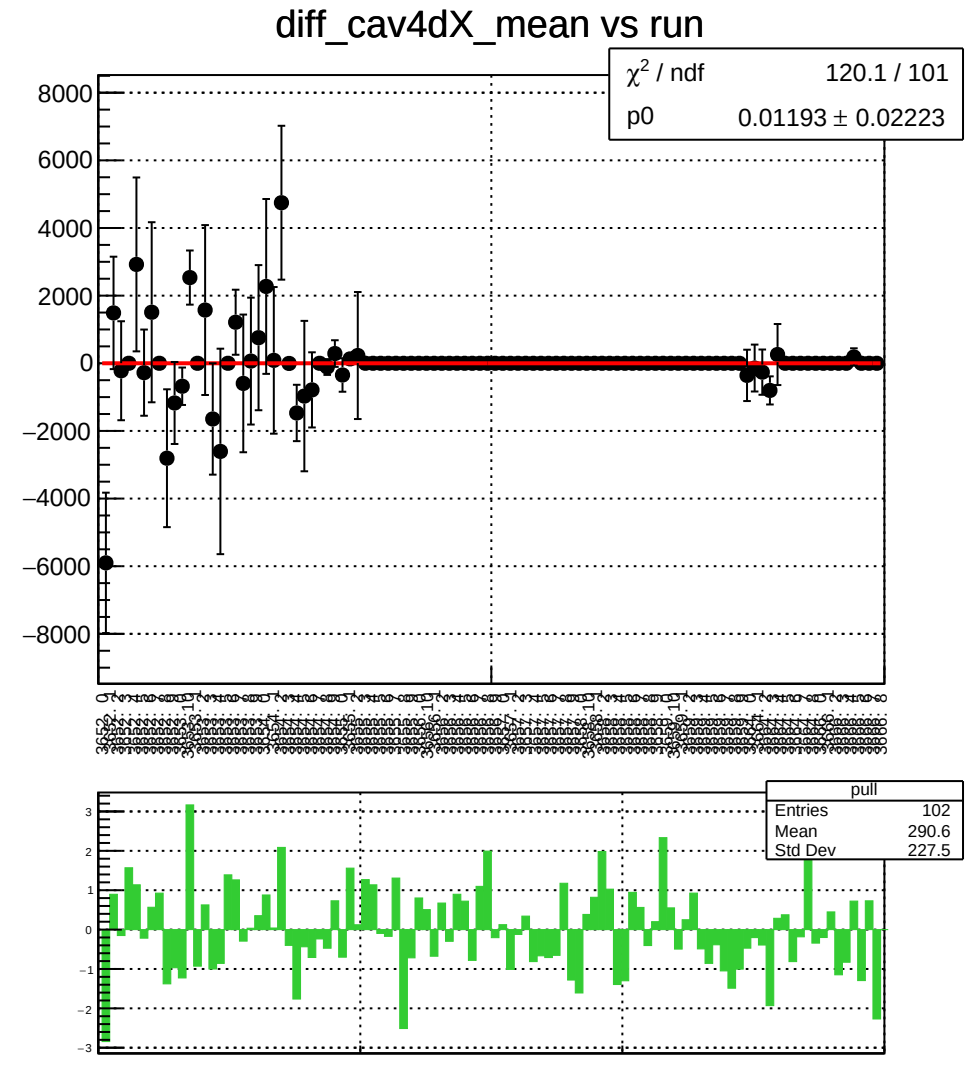

pull1D
Entries 102
Mean 0.005902
Std Dev 1.066

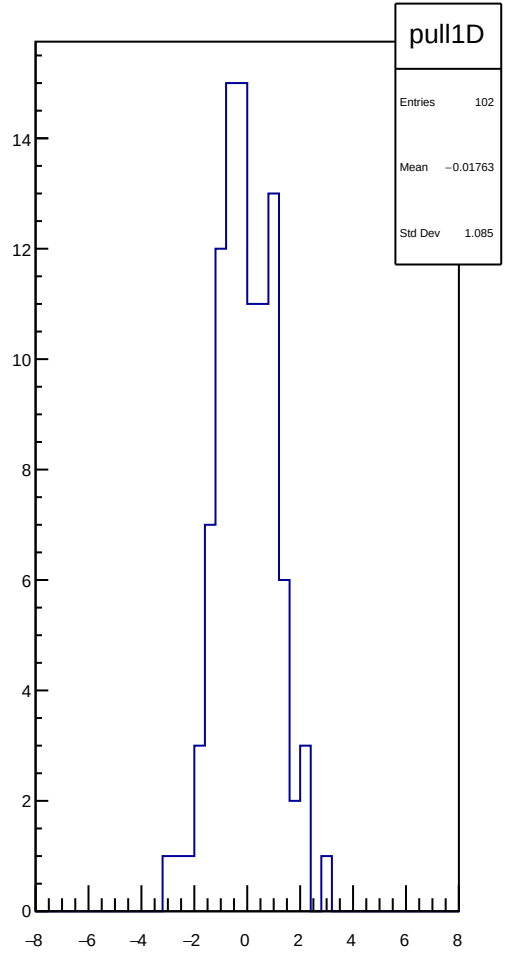

diff_cav4cX_rms vs run
χ² / ndf 1808 / 101
p0 1805 ± 1.303
2000
1950
1900
1850
1800
1750
1700
1650

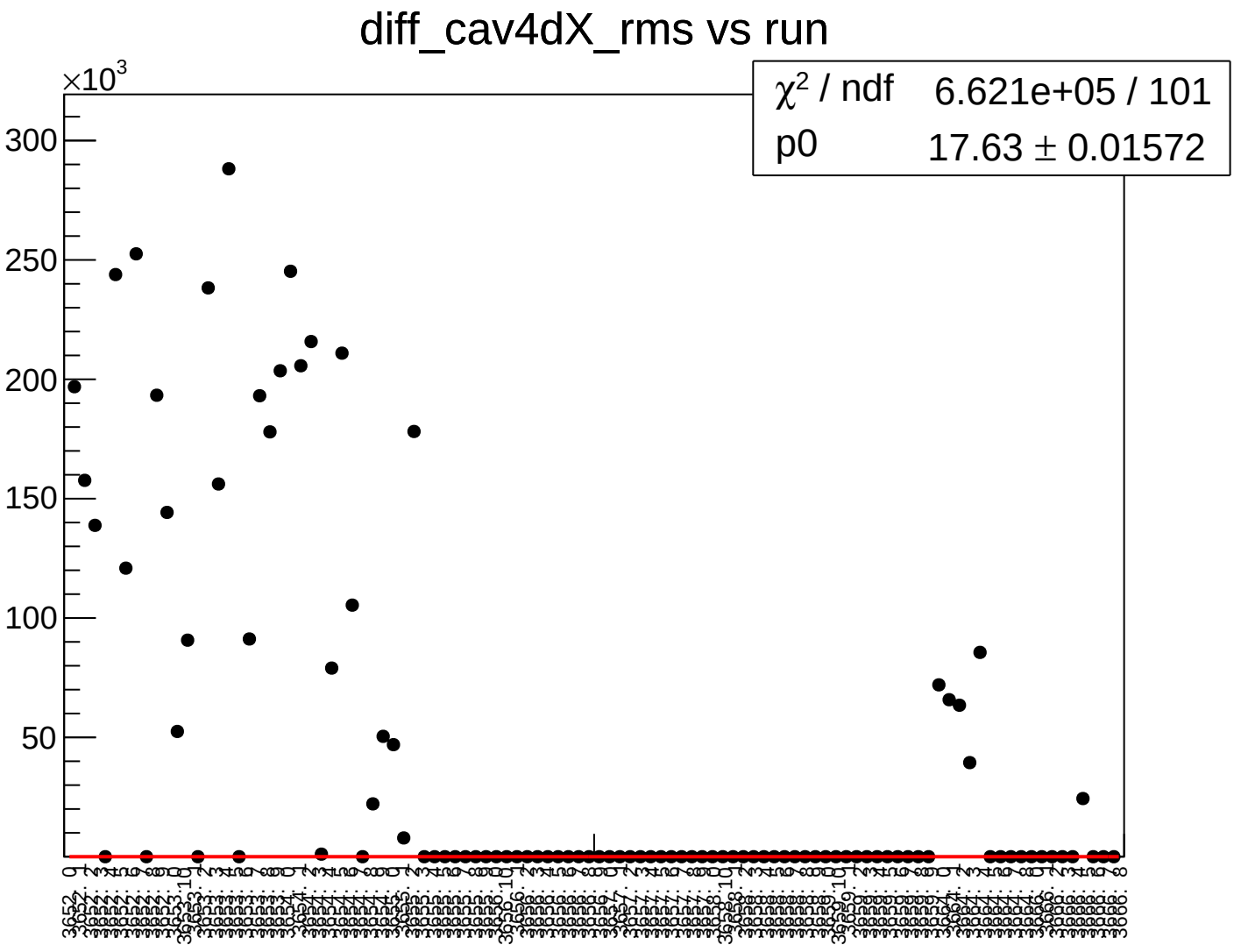

diff_cav4cY_mean vs run
χ² / ndf 92.92 / 101
p0 3.432 ± 1.901
pull
Entries 102
Mean 117.6
Std Dev 66.89

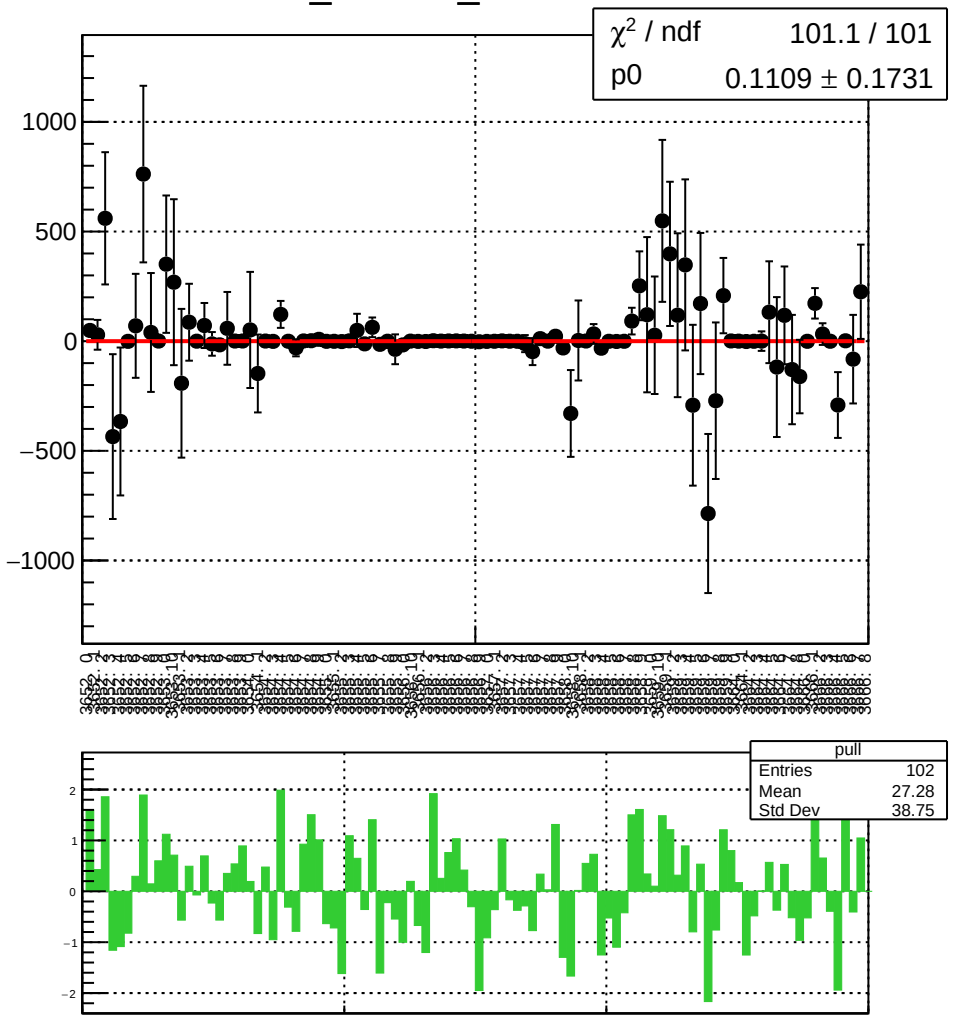

pull1D
Entries 102
Mean 0.004567
Std Dev 0.9545

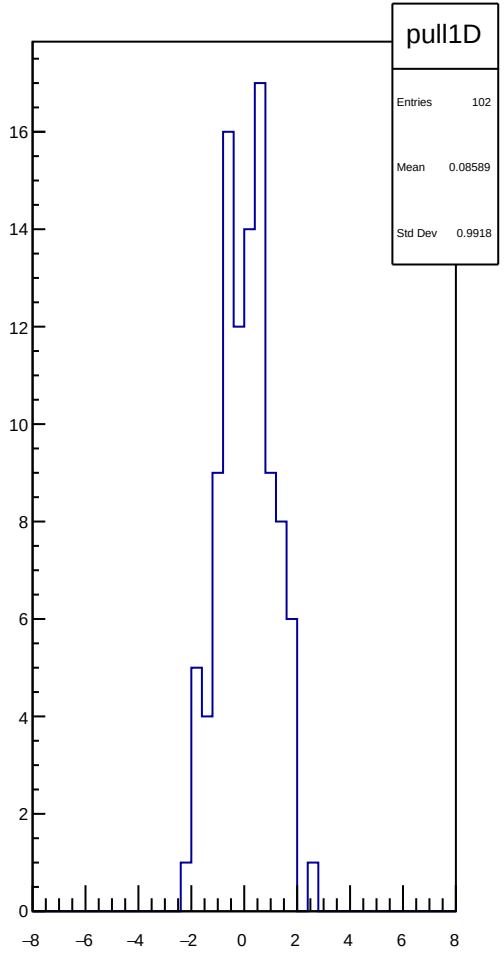

diff_cav4cY_rms vs run
χ^2 / ndf 9233 / 101
p0 1858 ± 1.344
2100
2000
1900
1800
1700
1600

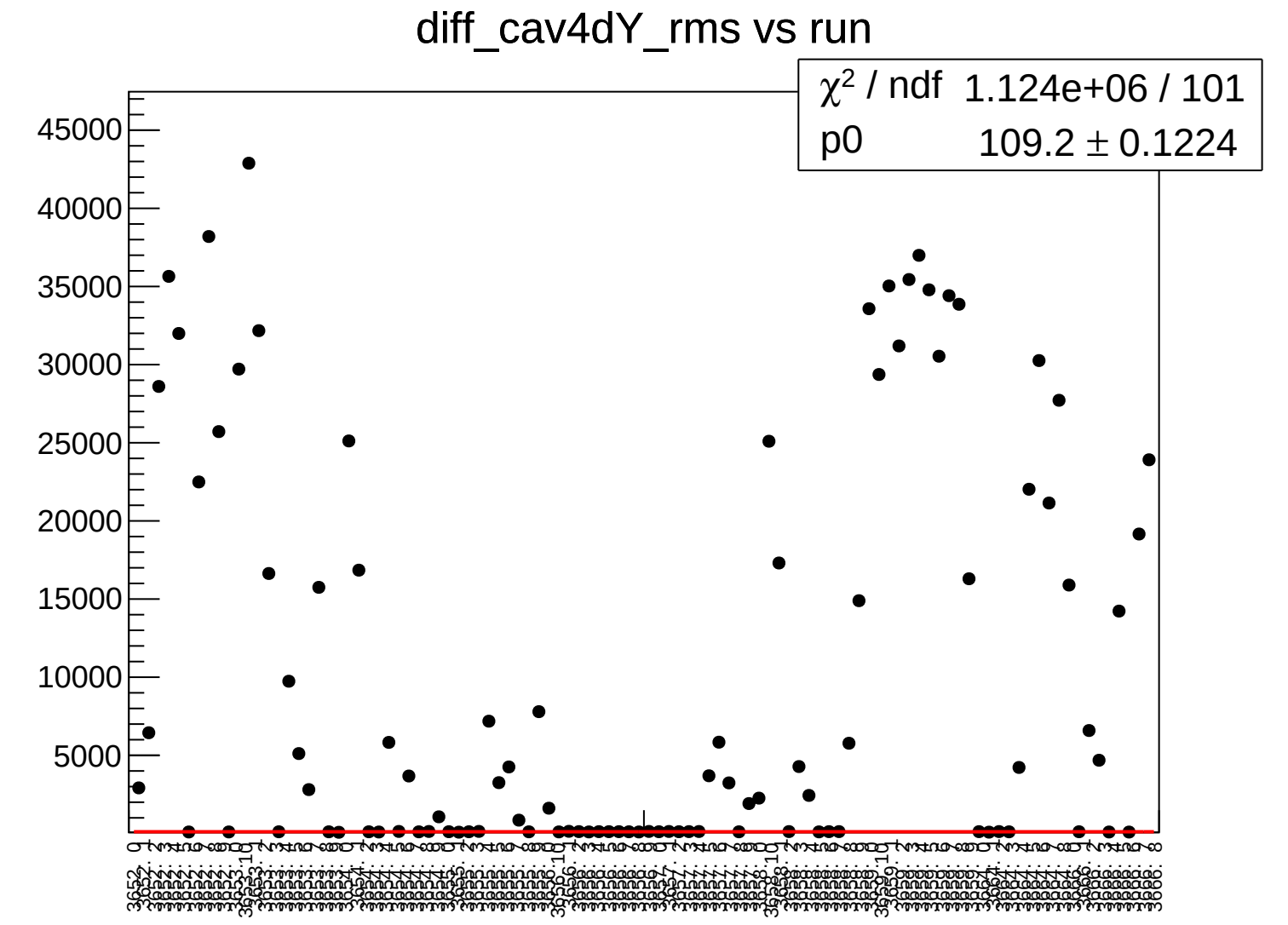

diff_cav4dX_mean vs run
χ² / ndf 120.1 / 101
p0 0.01193 ± 0.02223
8000
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 102
Mean 290.6
Std Dev 227.5
3
2
1
0
−1
−2
−3

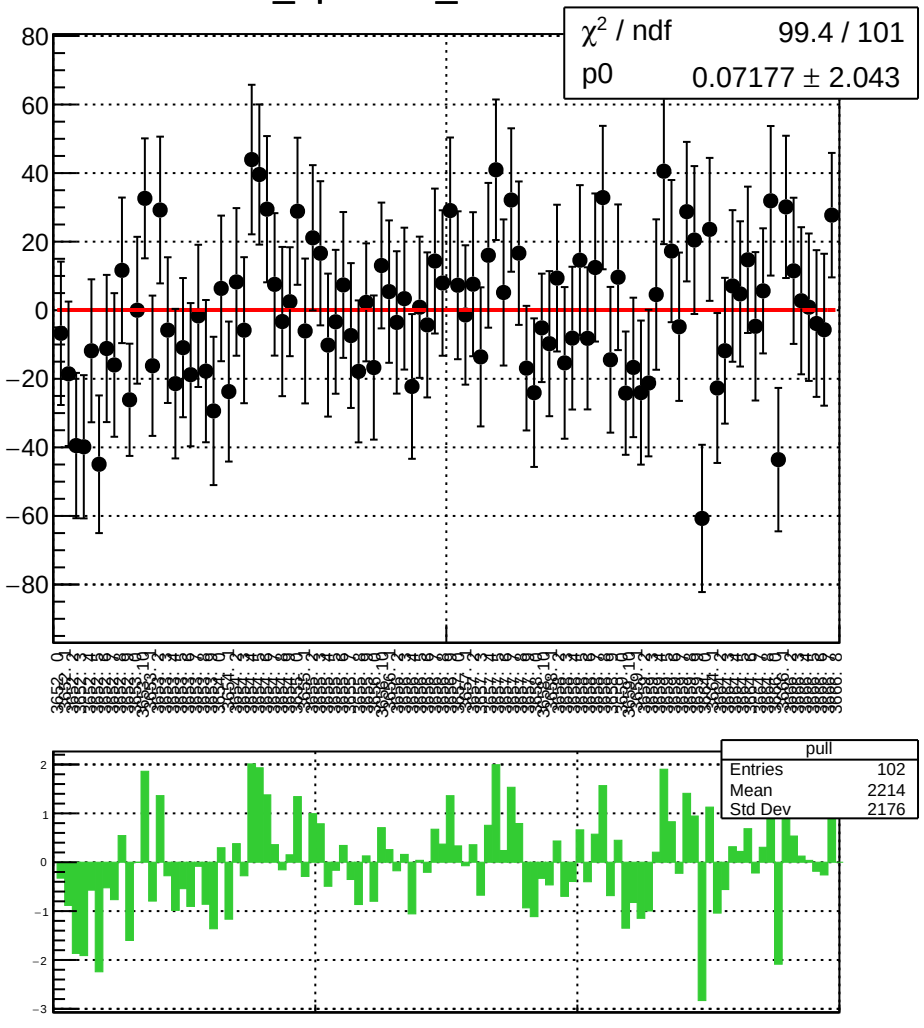

pull1D
Entries 102
Mean −0.01763
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

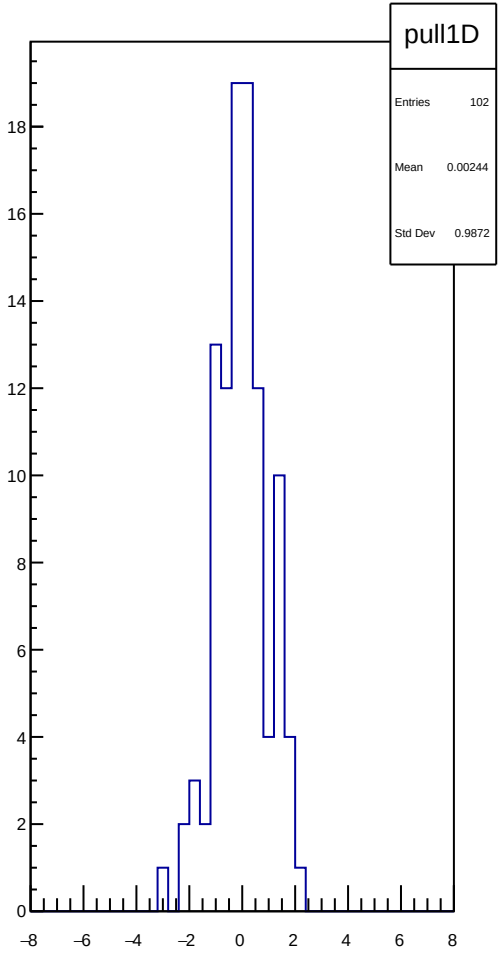

diff_cav4dX_rms vs run
×10^3
300
250
200
150
100
50
χ² / ndf 6.621e+05 / 101
p0 17.63 ± 0.01572

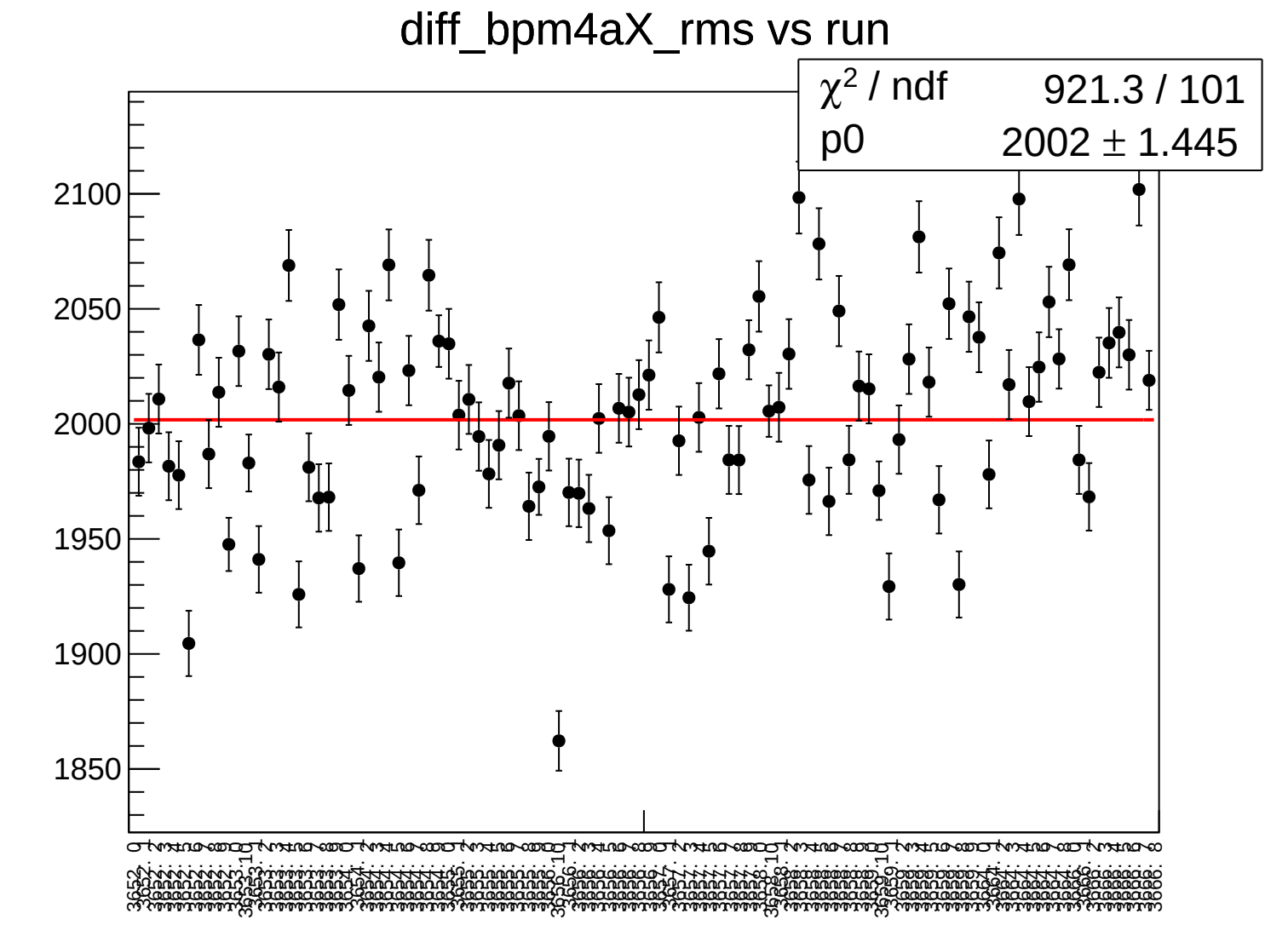

diff_cav4dY_mean vs run
χ² / ndf 101.1 / 101
p0 0.1109 ± 0.1731
1000
500
0
−500
−1000
pull
Entries 102
Mean 27.28
Std Dev 38.75
2
1
0
−1
−2

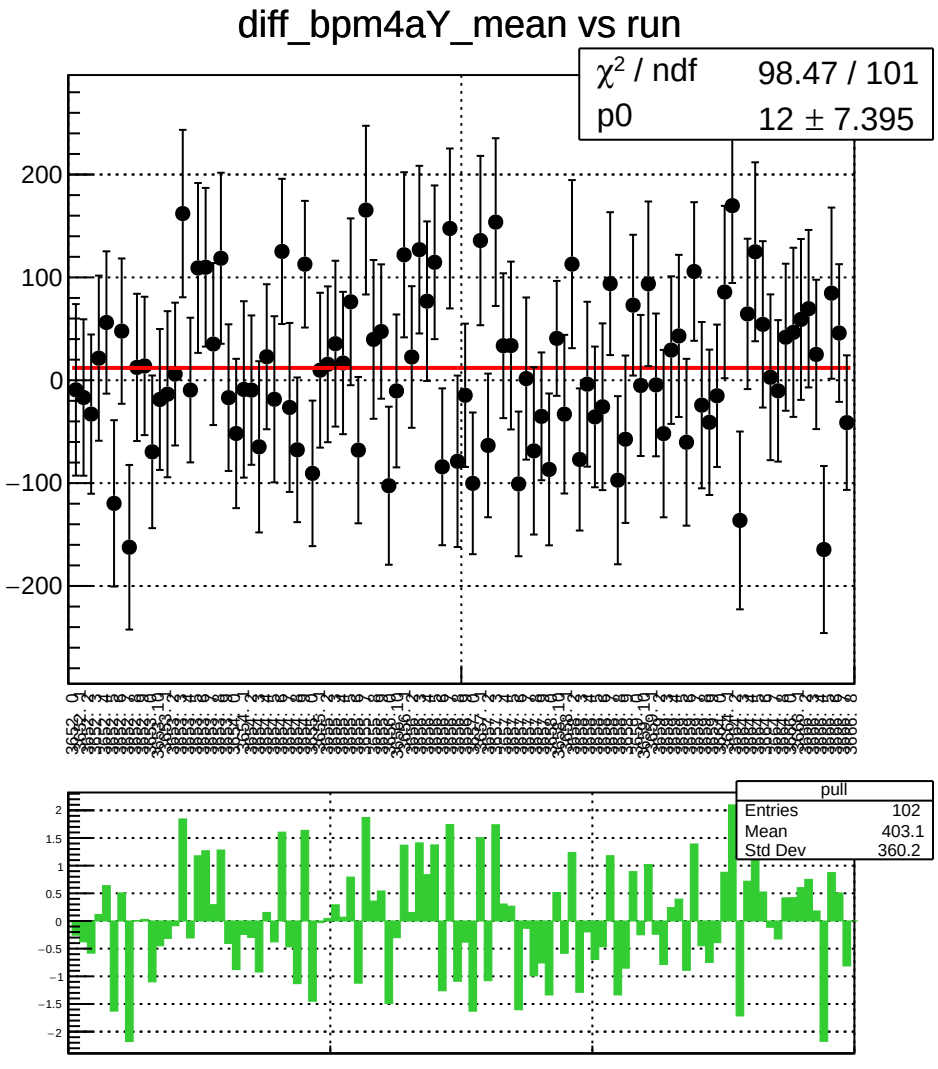

pull1D
Entries 102
Mean 0.08589
Std Dev 0.9918
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

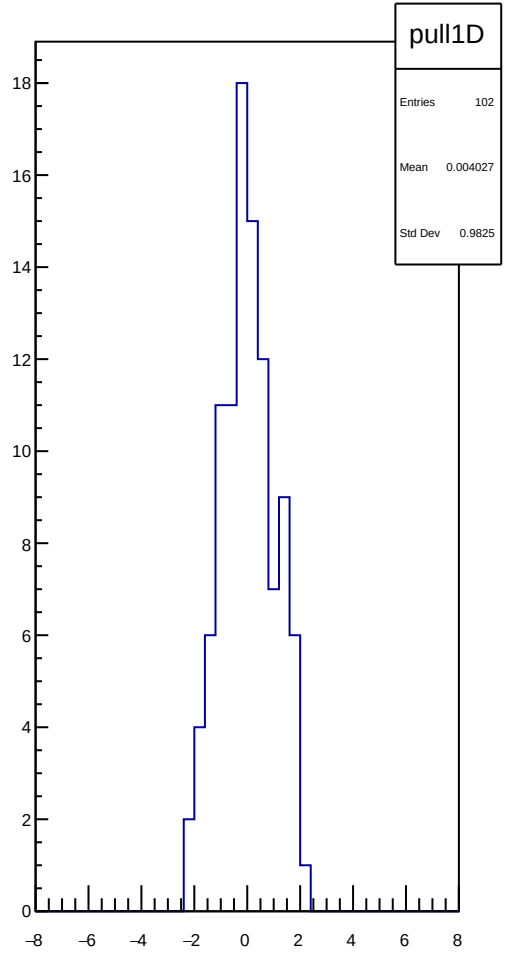

diff_cav4dY_rms vs run
χ^2 / ndf 1.124e+06 / 101
p0 109.2 ± 0.1224
45000
40000
35000
30000
25000
20000
15000
10000
5000

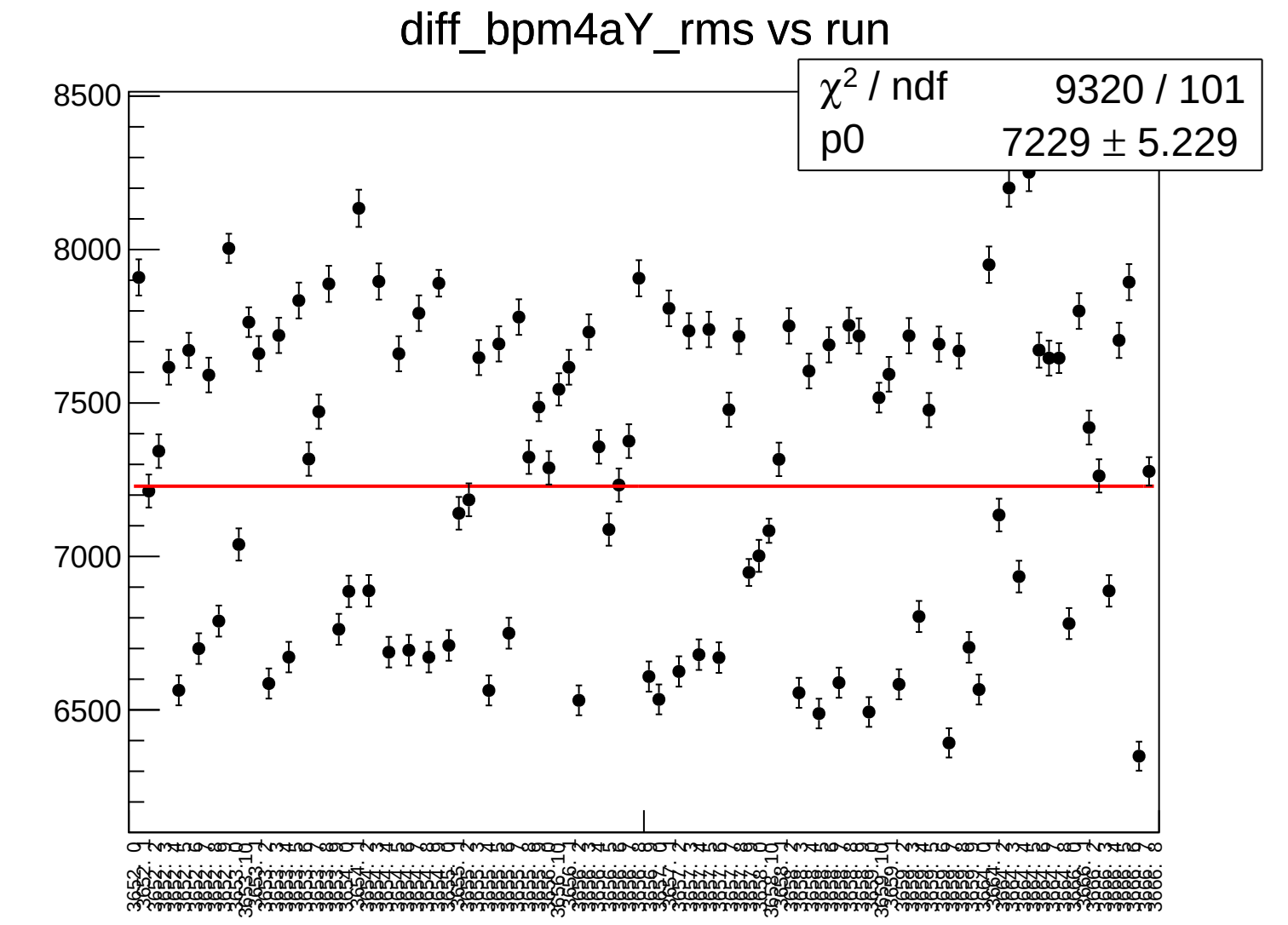

diff_bpm4aX_mean vs run
χ² / ndf 99.4 / 101
p0 0.07177 ± 2.043
pull
Entries 102
Mean 2214
Std Dev 2176

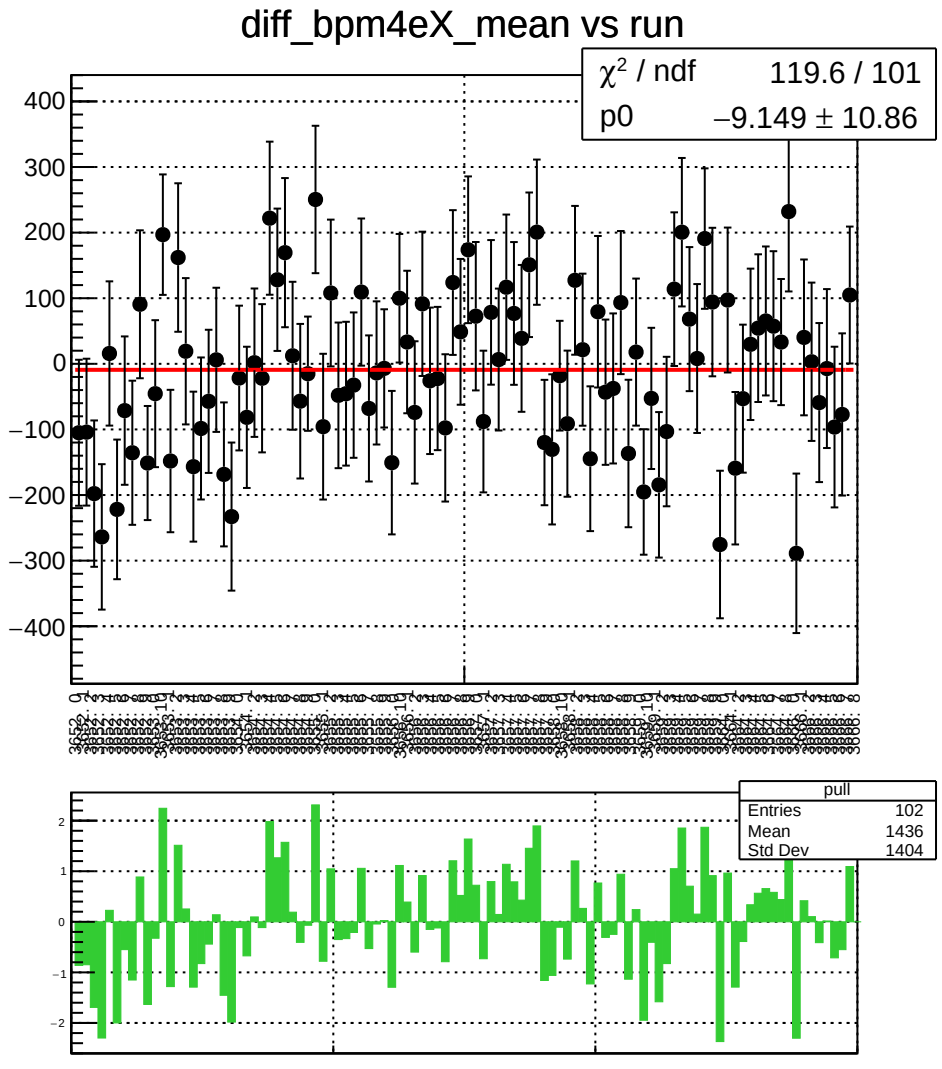

pull1D
Entries 102
Mean 0.00244
Std Dev 0.9872

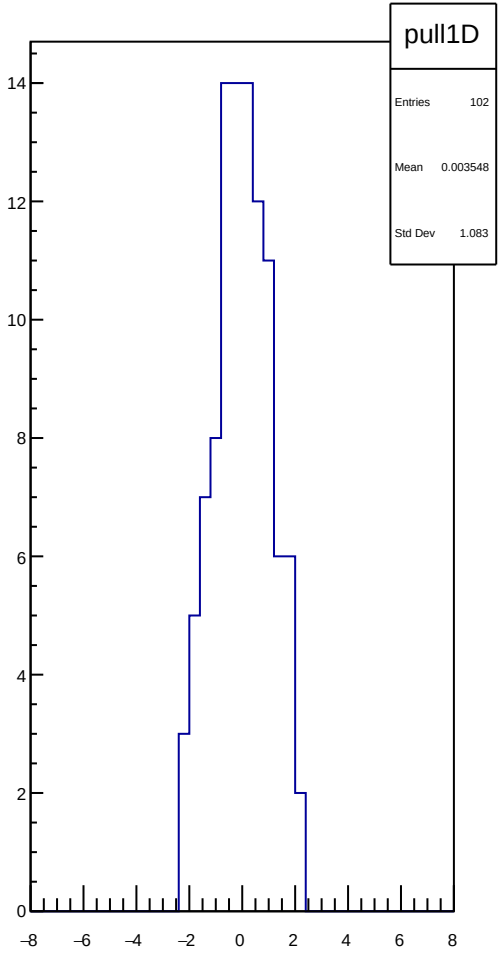

diff_bpm4aX_rms vs run
χ^2 / ndf 921.3 / 101
p0 2002 ± 1.445
2100
2050
2000
1950
1900
1850

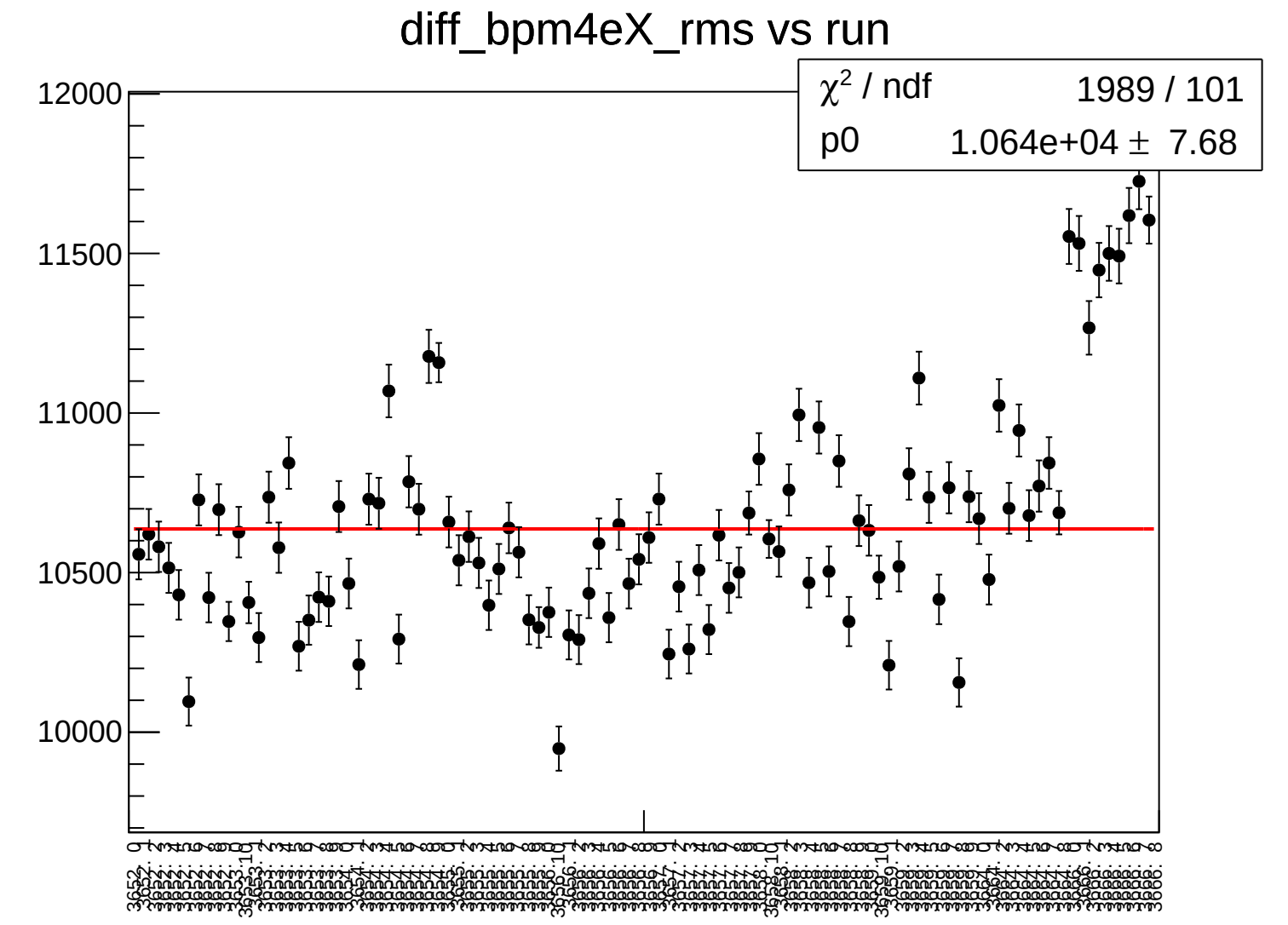

diff_bpm4aY_mean vs run
χ² / ndf 98.47 / 101
p0 12 ± 7.395
200
100
0
−100
−200
pull
Entries 102
Mean 403.1
Std Dev 360.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

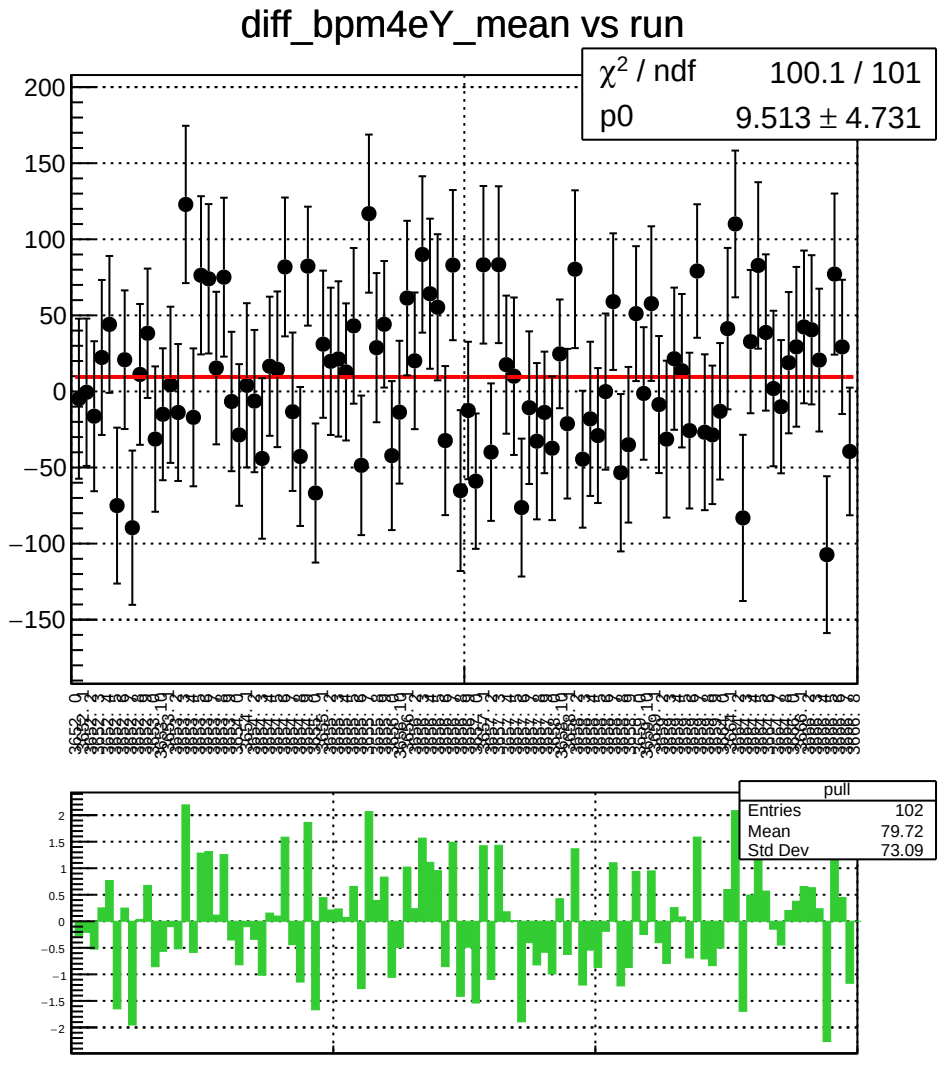

pull1D
Entries 102
Mean 0.004027
Std Dev 0.9825
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

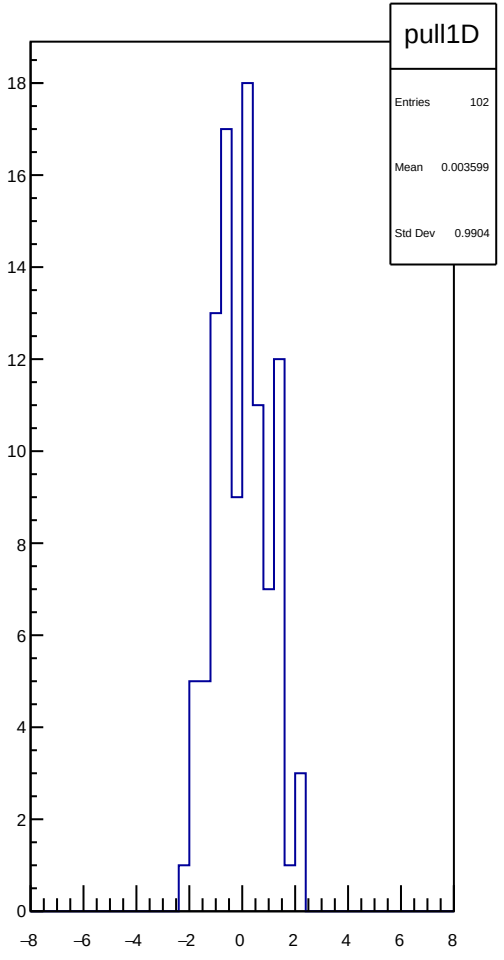

diff_bpm4aY_rms vs run
χ² / ndf 9320 / 101
p0 7229 ± 5.229
8500
8000
7500
7000
6500

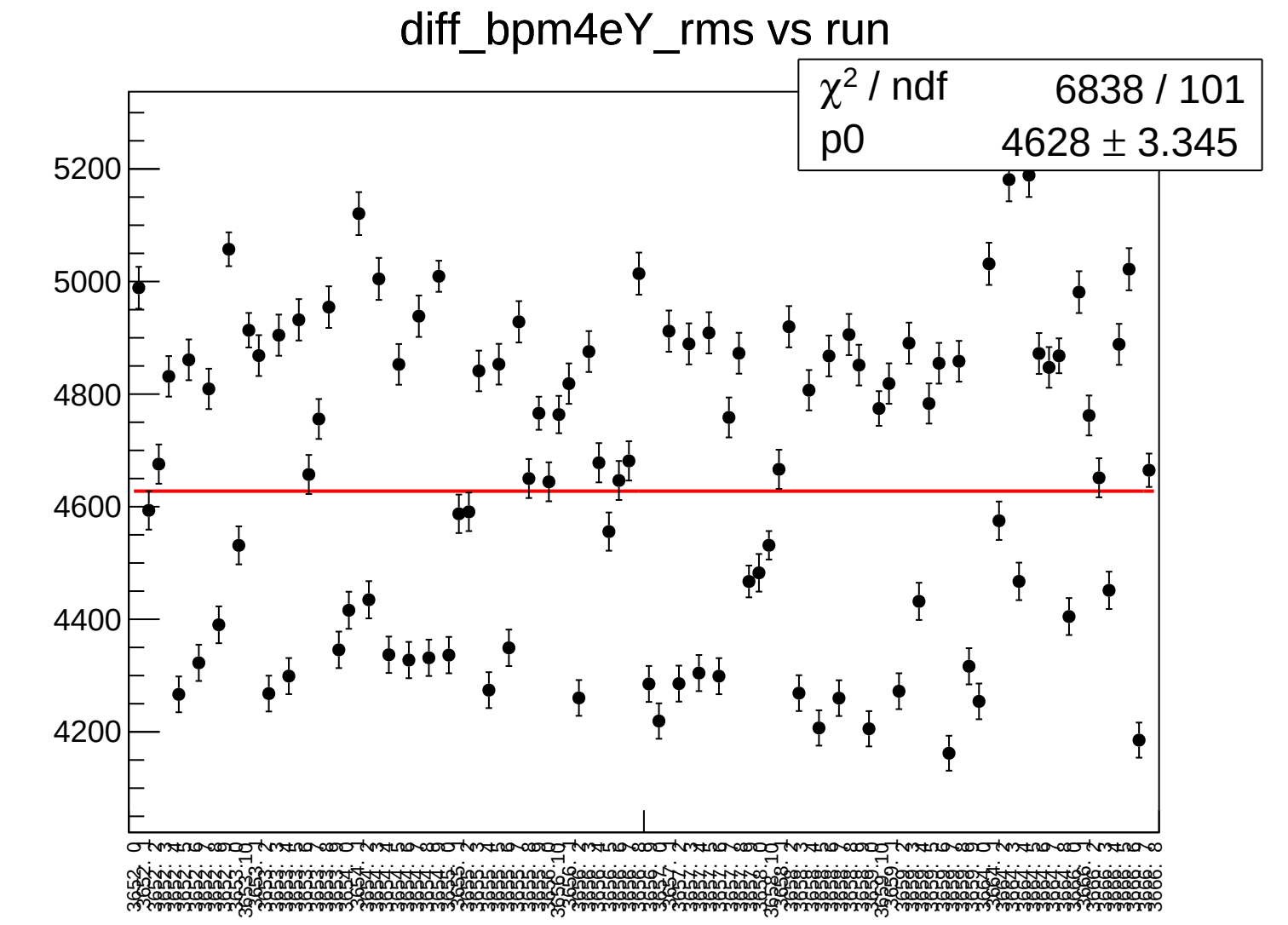

diff_bpm4eX_mean vs run
χ² / ndf 119.6 / 101
p0 −9.149 ± 10.86
pull
Entries 102
Mean 1436
Std Dev 1404

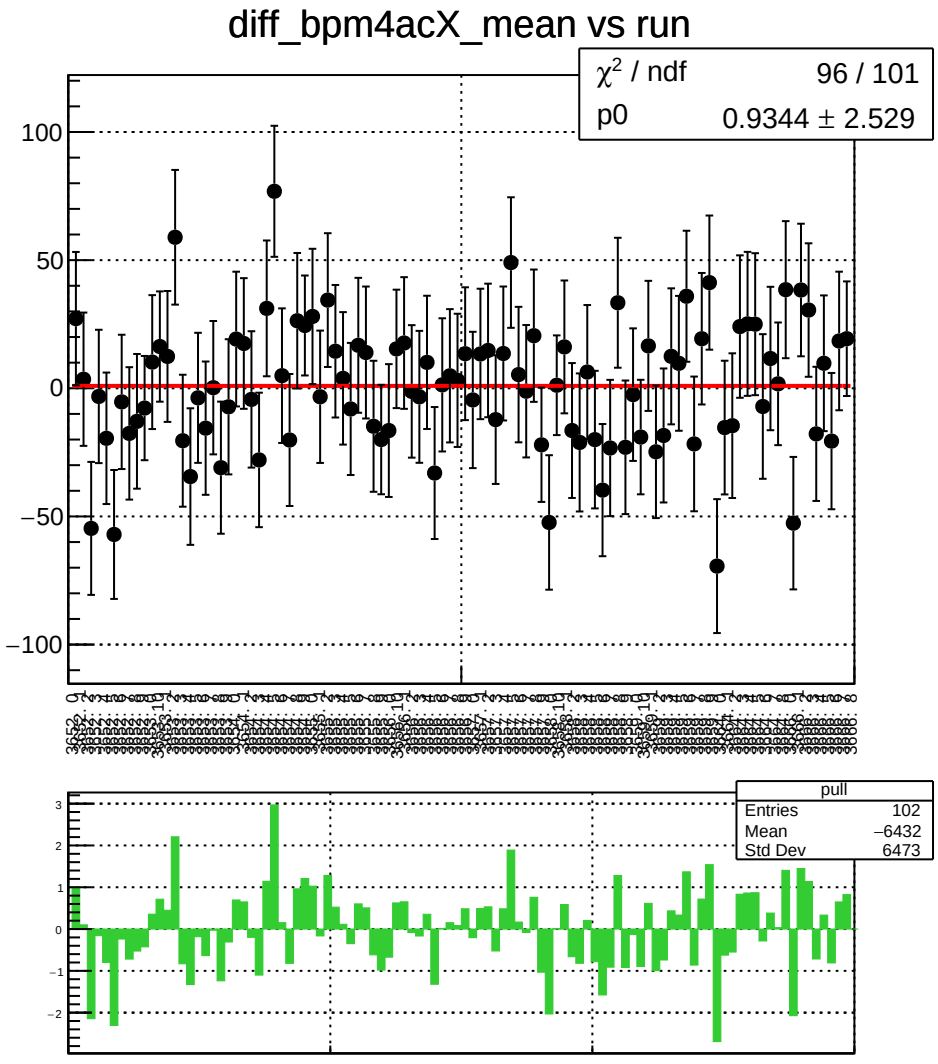

pull1D
Entries 102
Mean 0.003548
Std Dev 1.083

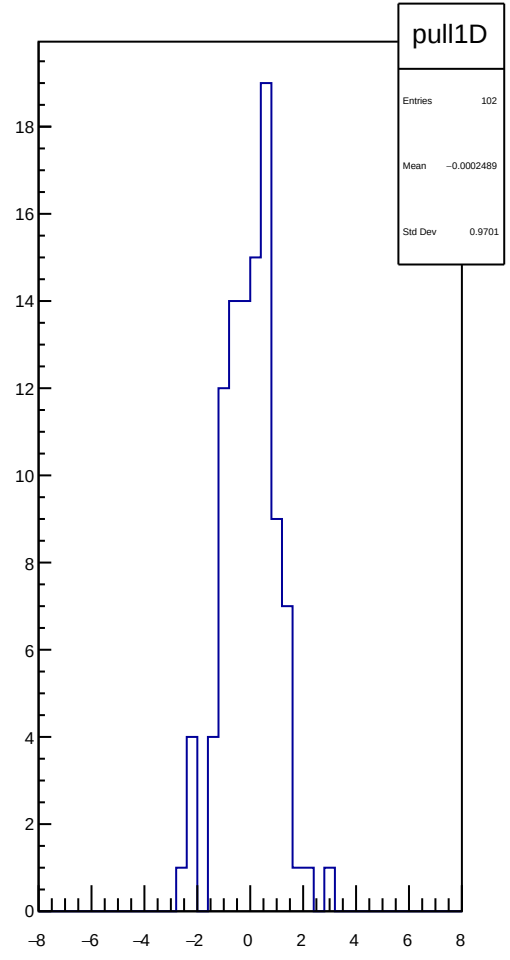

diff_bpm4eX_rms vs run
χ² / ndf 1989 / 101
p0 1.064e+04 ± 7.68
12000
11500
11000
10500
10000

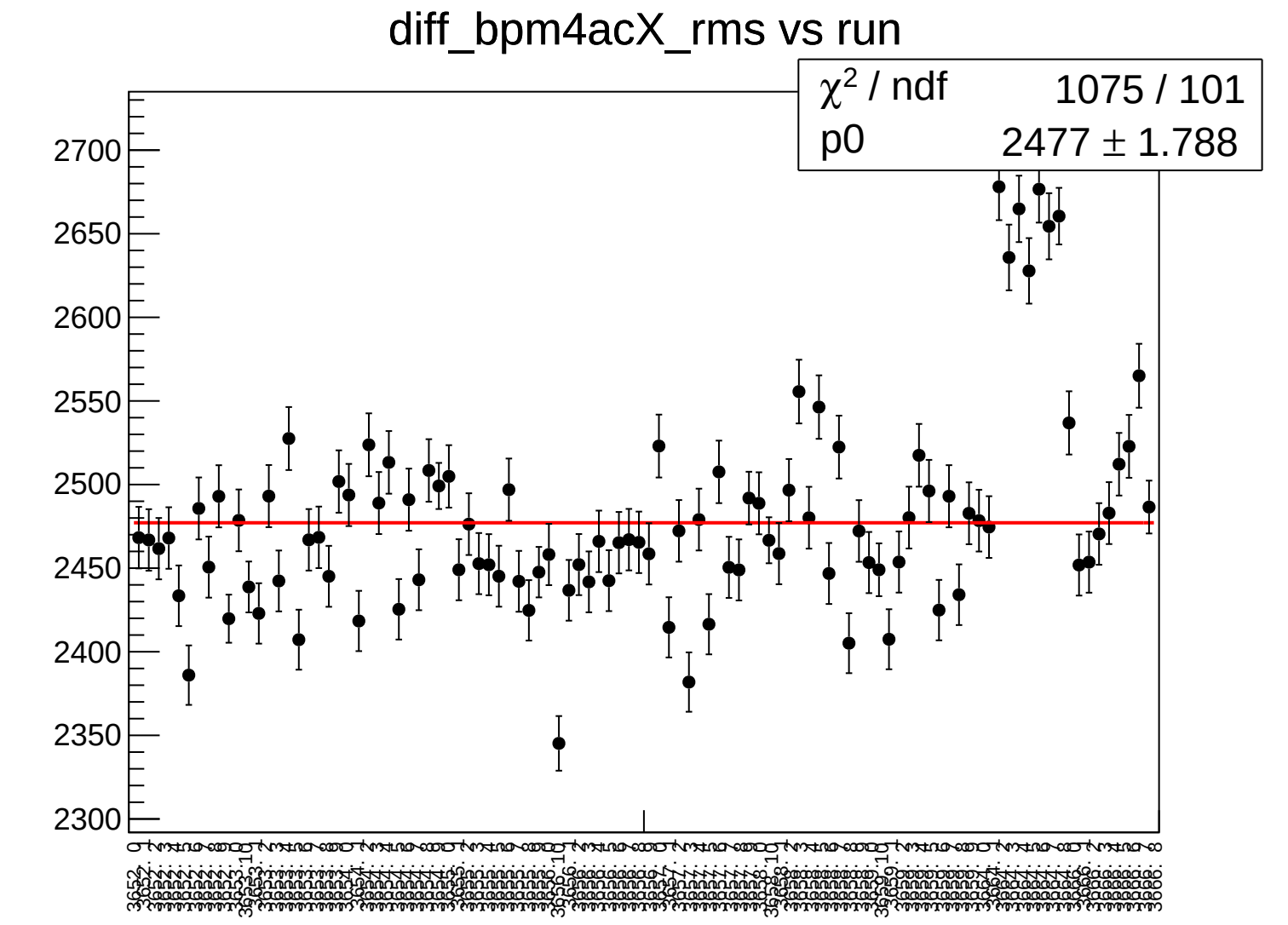

diff_bpm4eY_mean vs run
χ² / ndf 100.1 / 101
p0 9.513 ± 4.731
pull
Entries 102
Mean 79.72
Std Dev 73.09

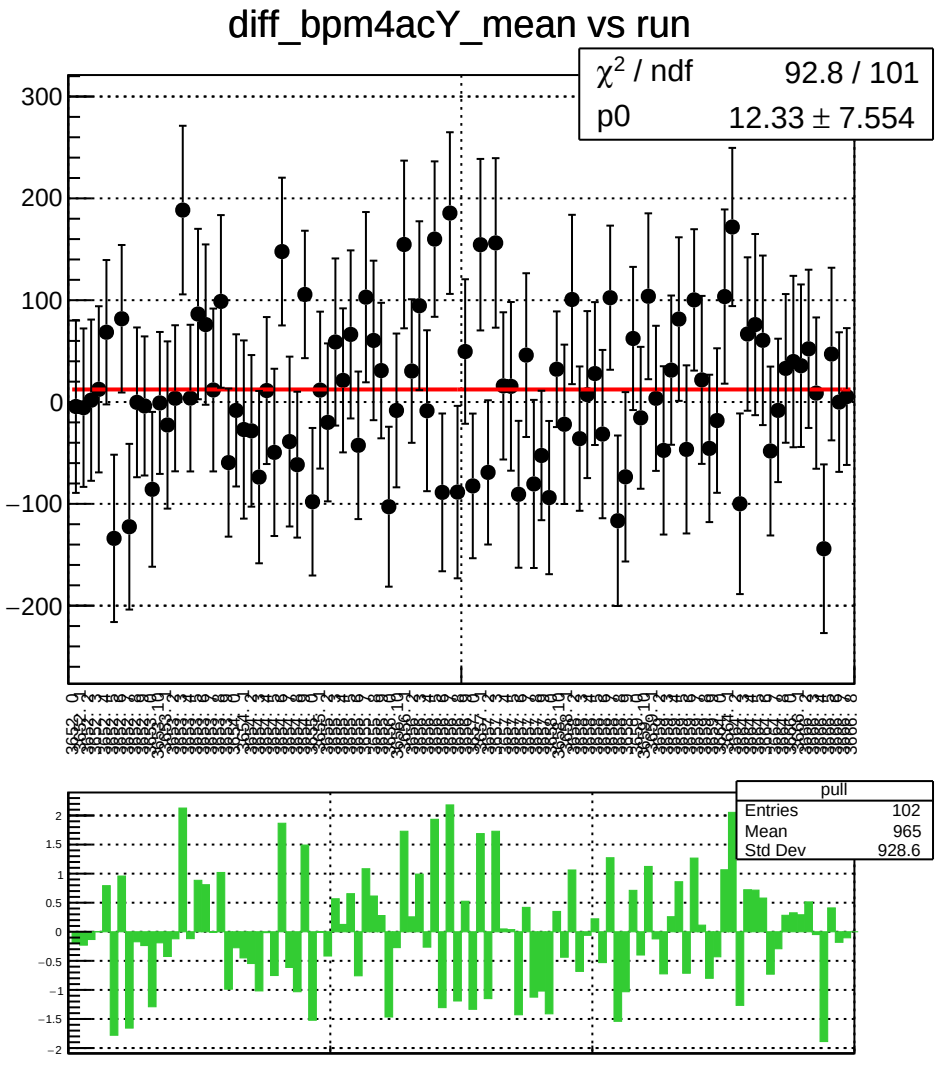

pull1D
Entries 102
Mean 0.003599
Std Dev 0.9904

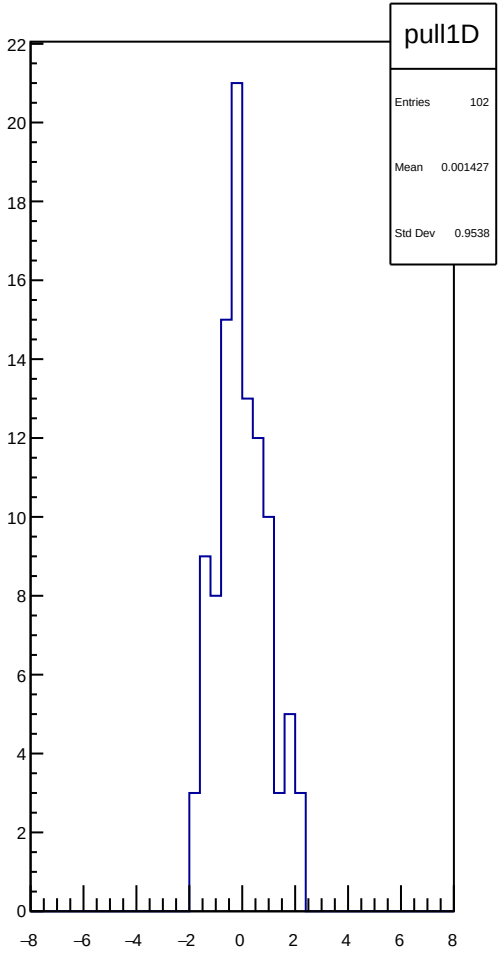

diff_bpm4eY_rms vs run
χ^2 / ndf 6838 / 101
p0 4628 ± 3.345
5200
5000
4800
4600
4400
4200

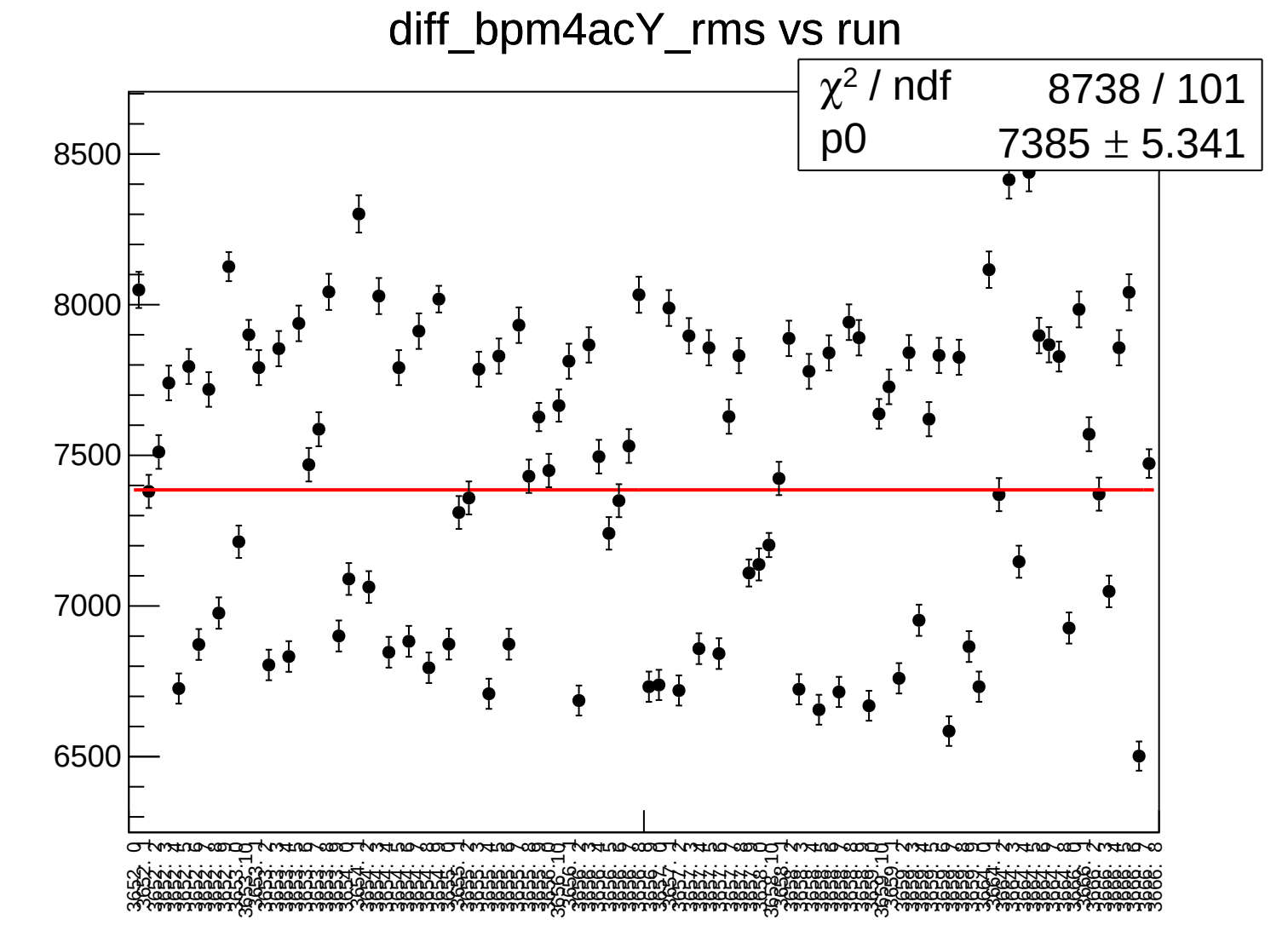

diff_bpm4acX_mean vs run
χ² / ndf 96 / 101
p0 0.9344 ± 2.529
100
50
0
−50
−100
pull
Entries 102
Mean −6432
Std Dev 6473
3
2
1
0
−1
−2

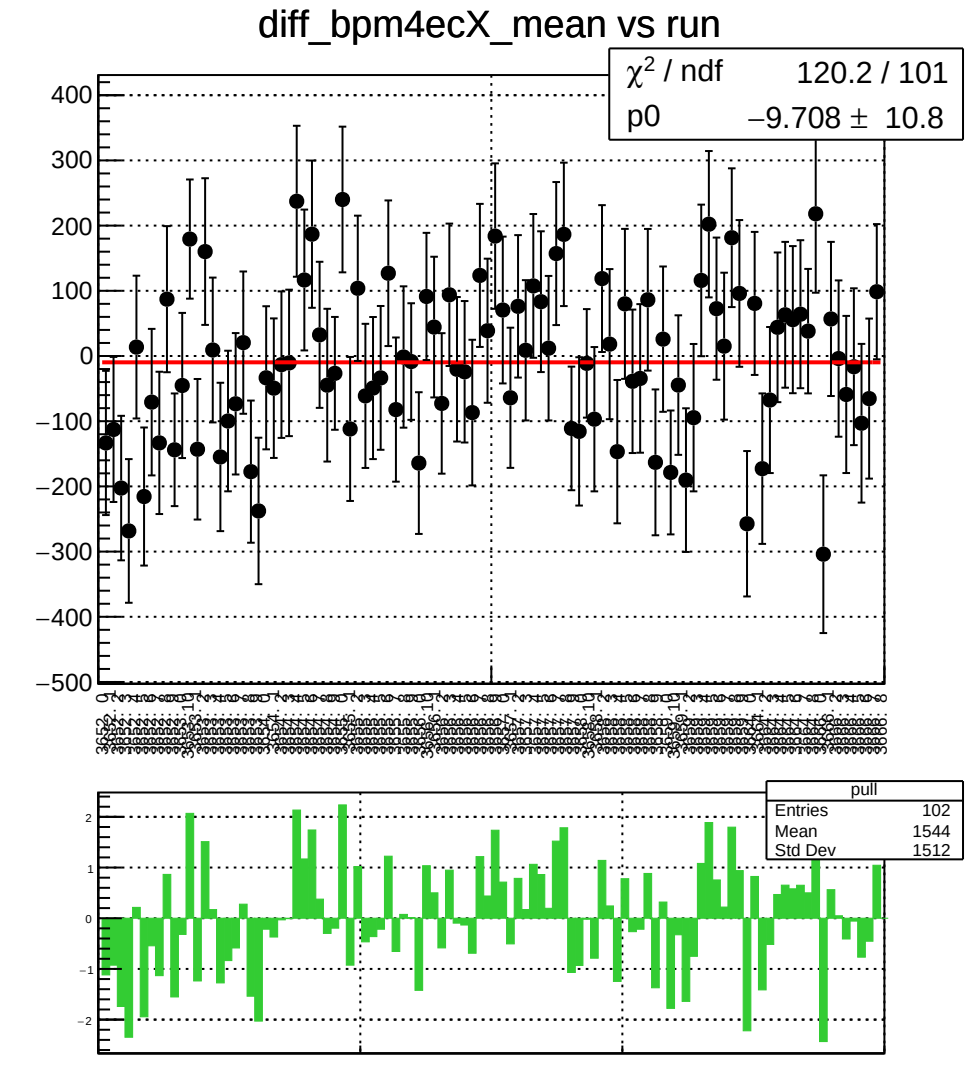

pull1D
Entries 102
Mean −0.0002489
Std Dev 0.9701
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

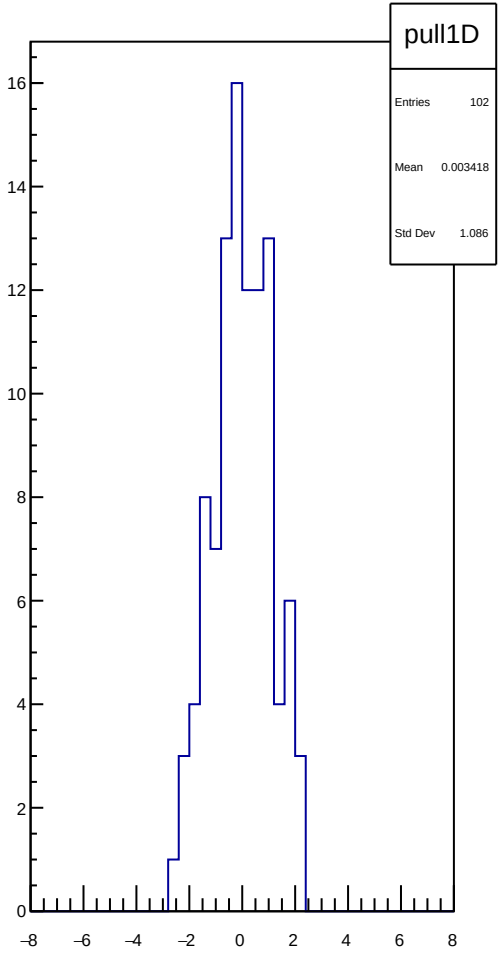

diff_bpm4acX_rms vs run
χ^2 / ndf 1075 / 101
p0 2477 ± 1.788
2700
2650
2600
2550
2500
2450
2400
2350
2300

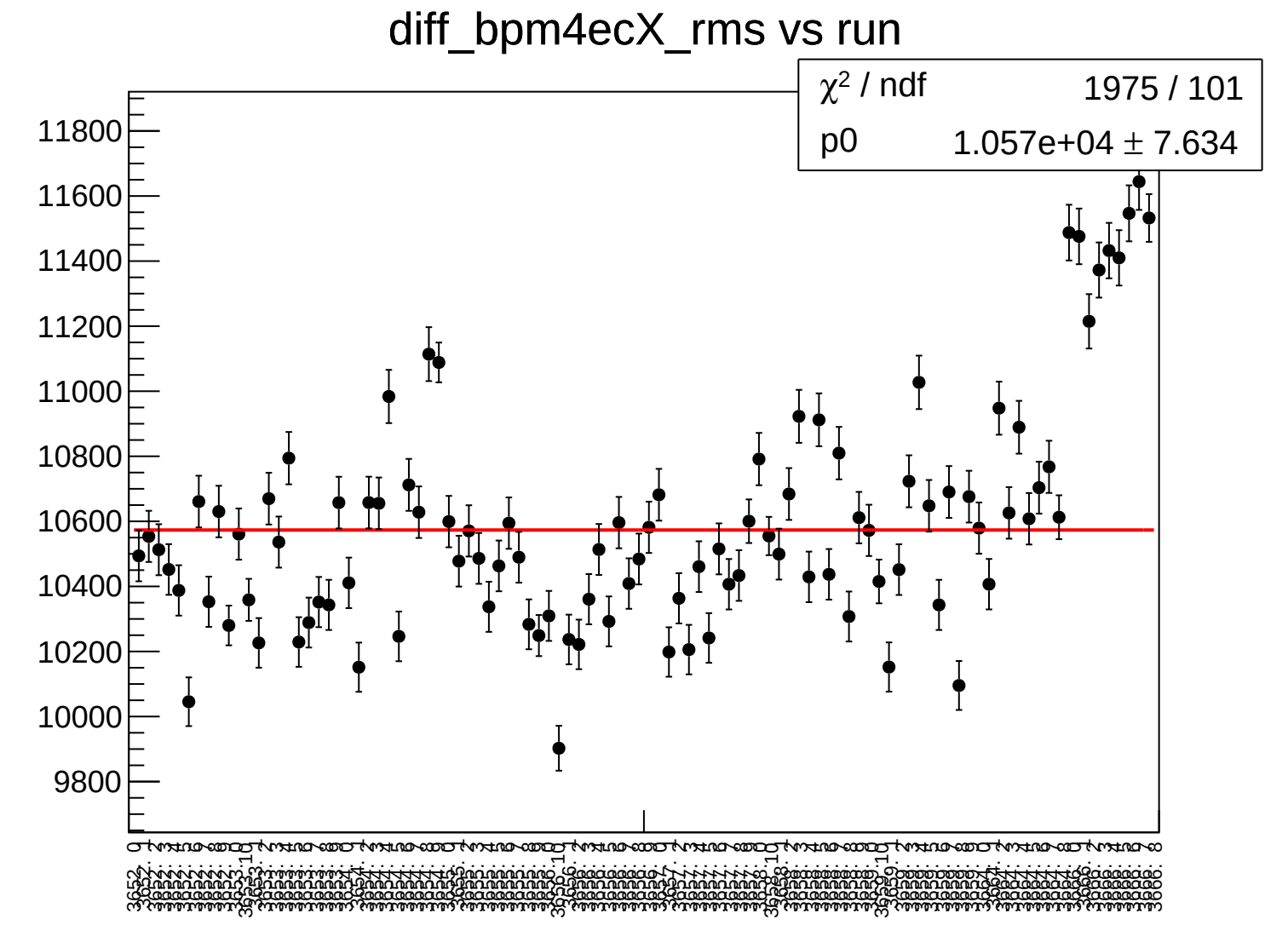

diff_bpm4acY_mean vs run
χ² / ndf 92.8 / 101
p0 12.33 ± 7.554
pull
Entries 102
Mean 965
Std Dev 928.6

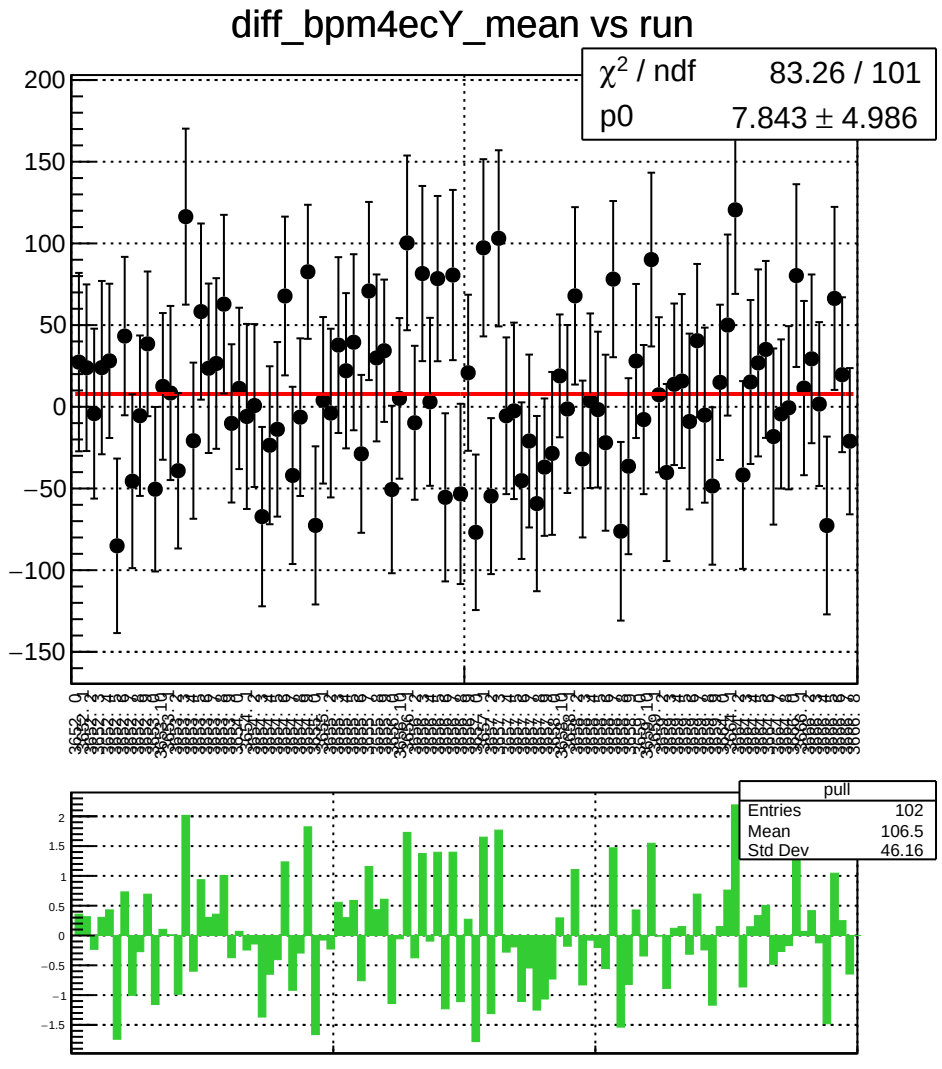

pull1D
Entries 102
Mean 0.001427
Std Dev 0.9538

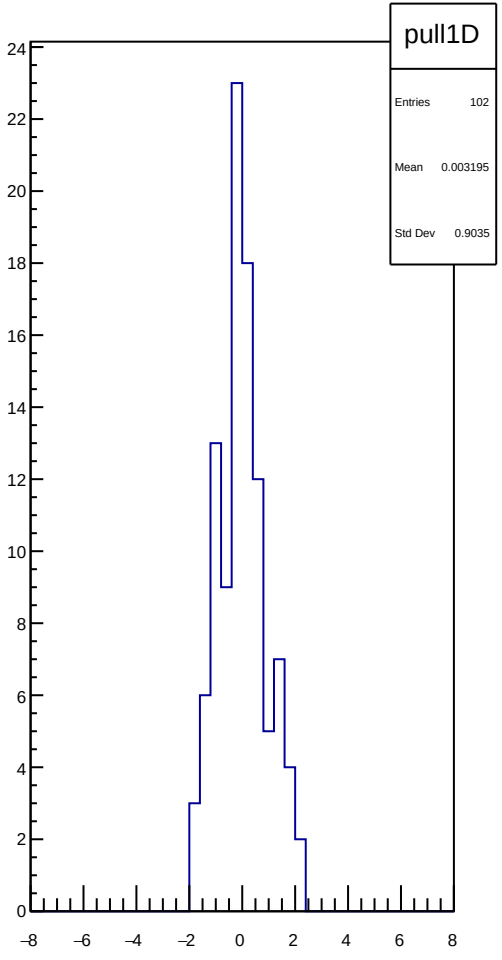

diff_bpm4acY_rms vs run
χ² / ndf 8738 / 101
p0 7385 ± 5.341
8500
8000
7500
7000
6500

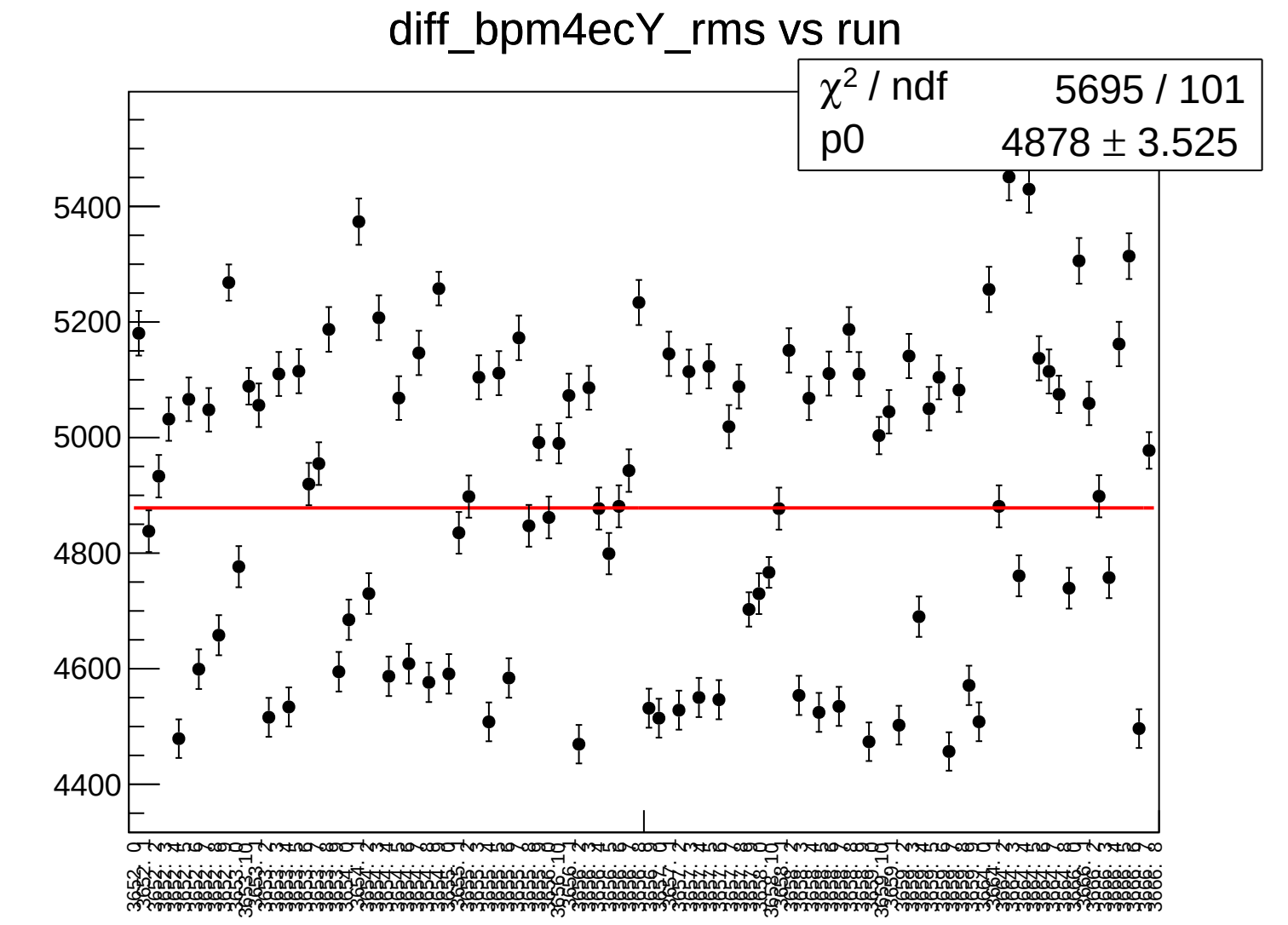

diff_bpm4ecX_mean vs run
χ² / ndf 120.2 / 101
p0 −9.708 ± 10.8
pull
Entries 102
Mean 1544
Std Dev 1512

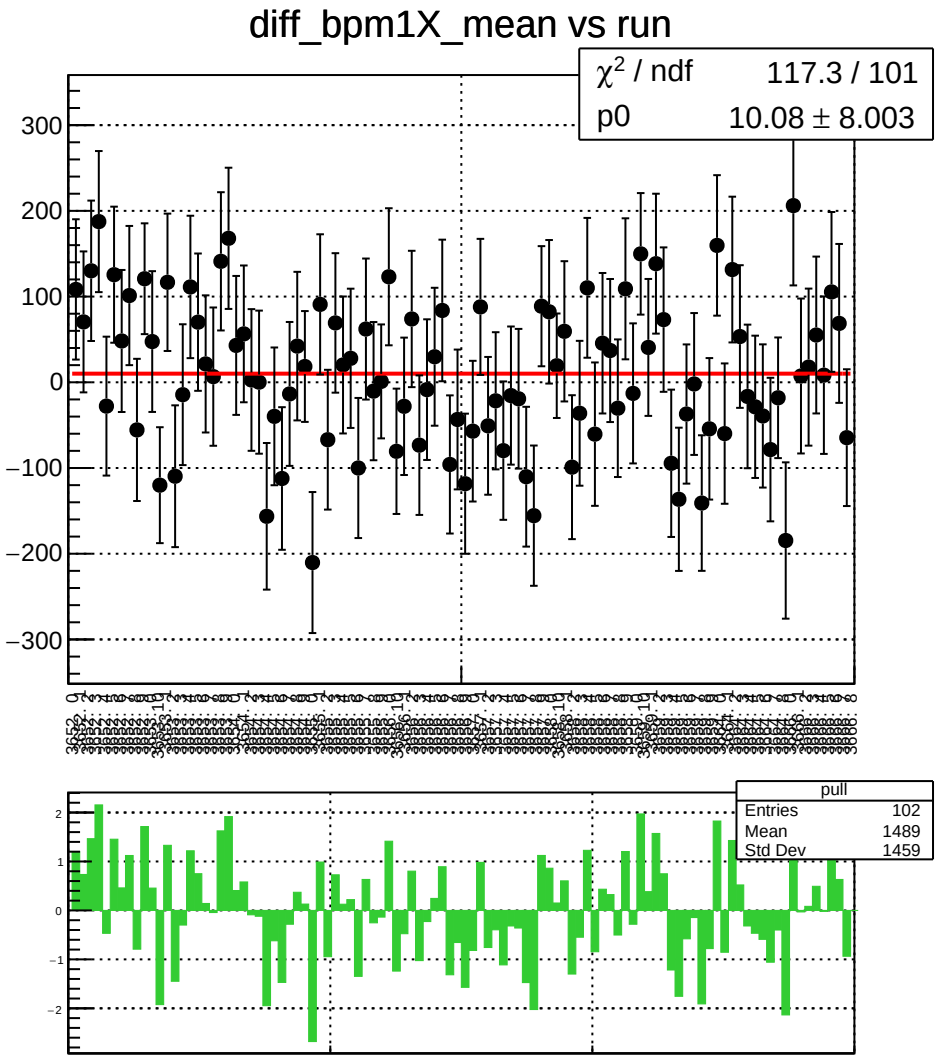

pull1D
Entries 102
Mean 0.003418
Std Dev 1.086

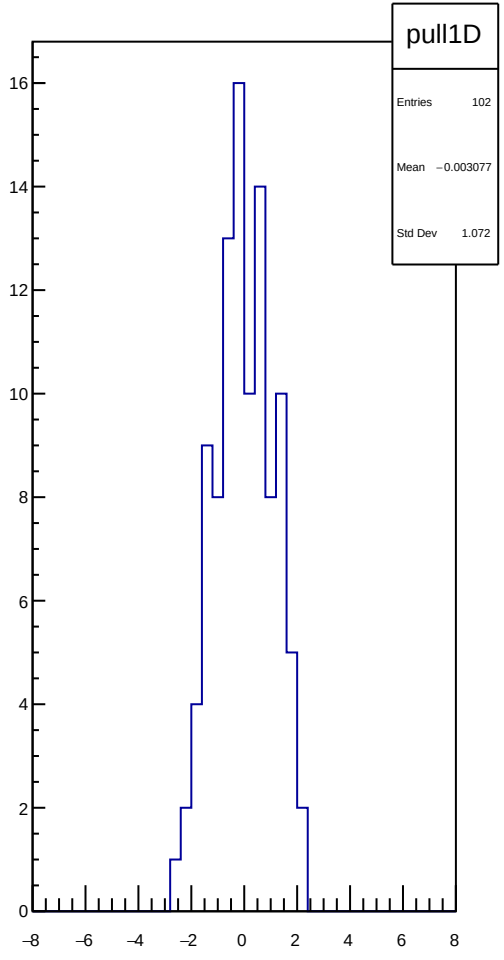

diff_bpm4ecX_rms vs run
χ² / ndf 1975 / 101
p0 1.057e+04 ± 7.634
11800
11600
11400
11200
11000
10800
10600
10400
10200
10000
9800

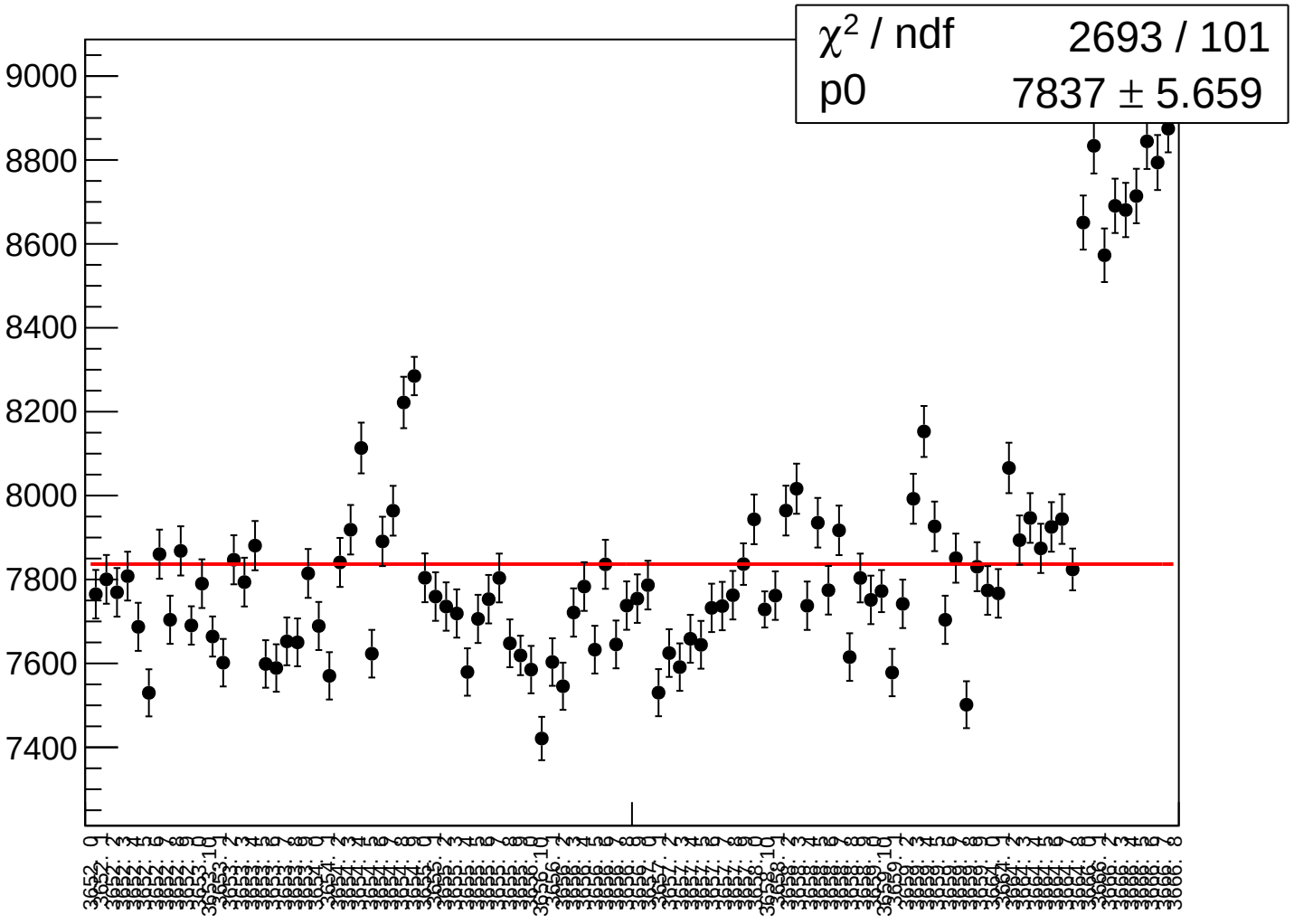

diff_bpm4ecY_mean vs run
χ² / ndf 83.26 / 101
p0 7.843 ± 4.986
pull
Entries 102
Mean 106.5
Std Dev 46.16

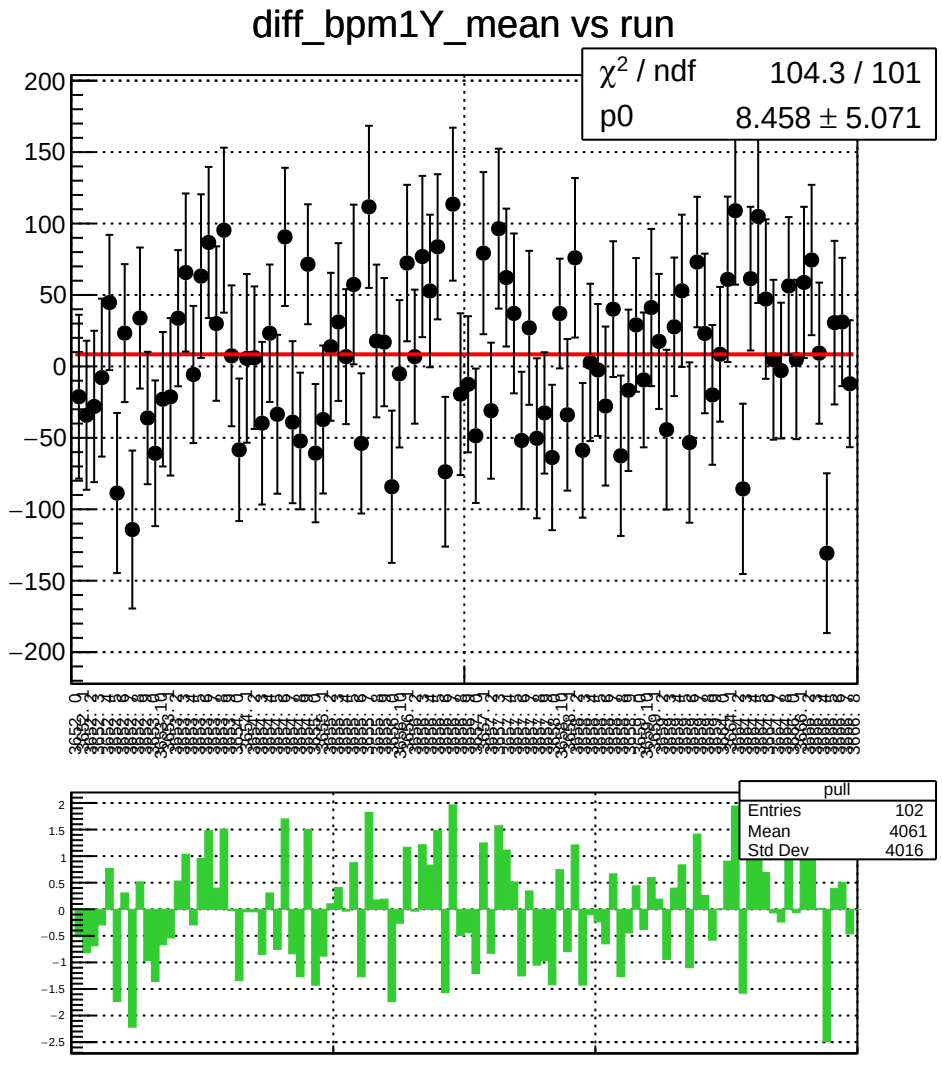

pull1D
Entries 102
Mean 0.003195
Std Dev 0.9035

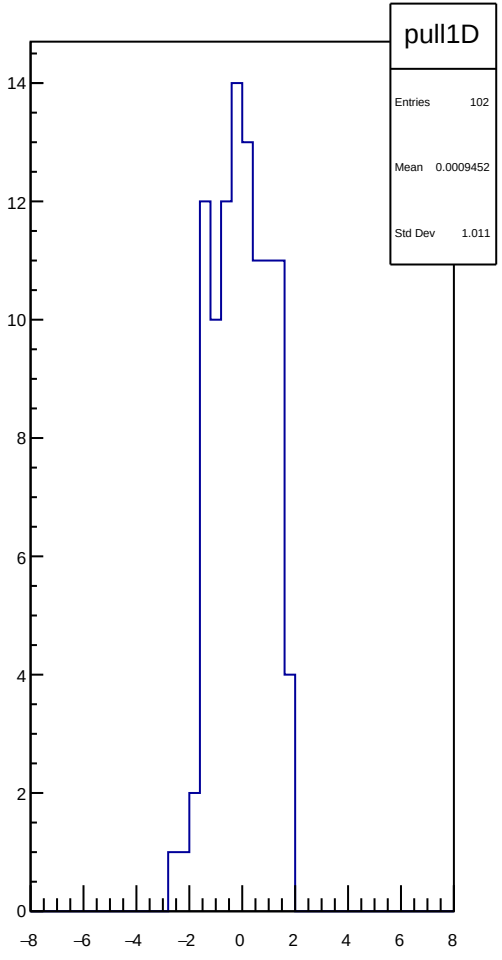

diff_bpm4ecY_rms vs run
χ^2 / ndf 5695 / 101
p0 4878 ± 3.525
5400
5200
5000
4800
4600
4400

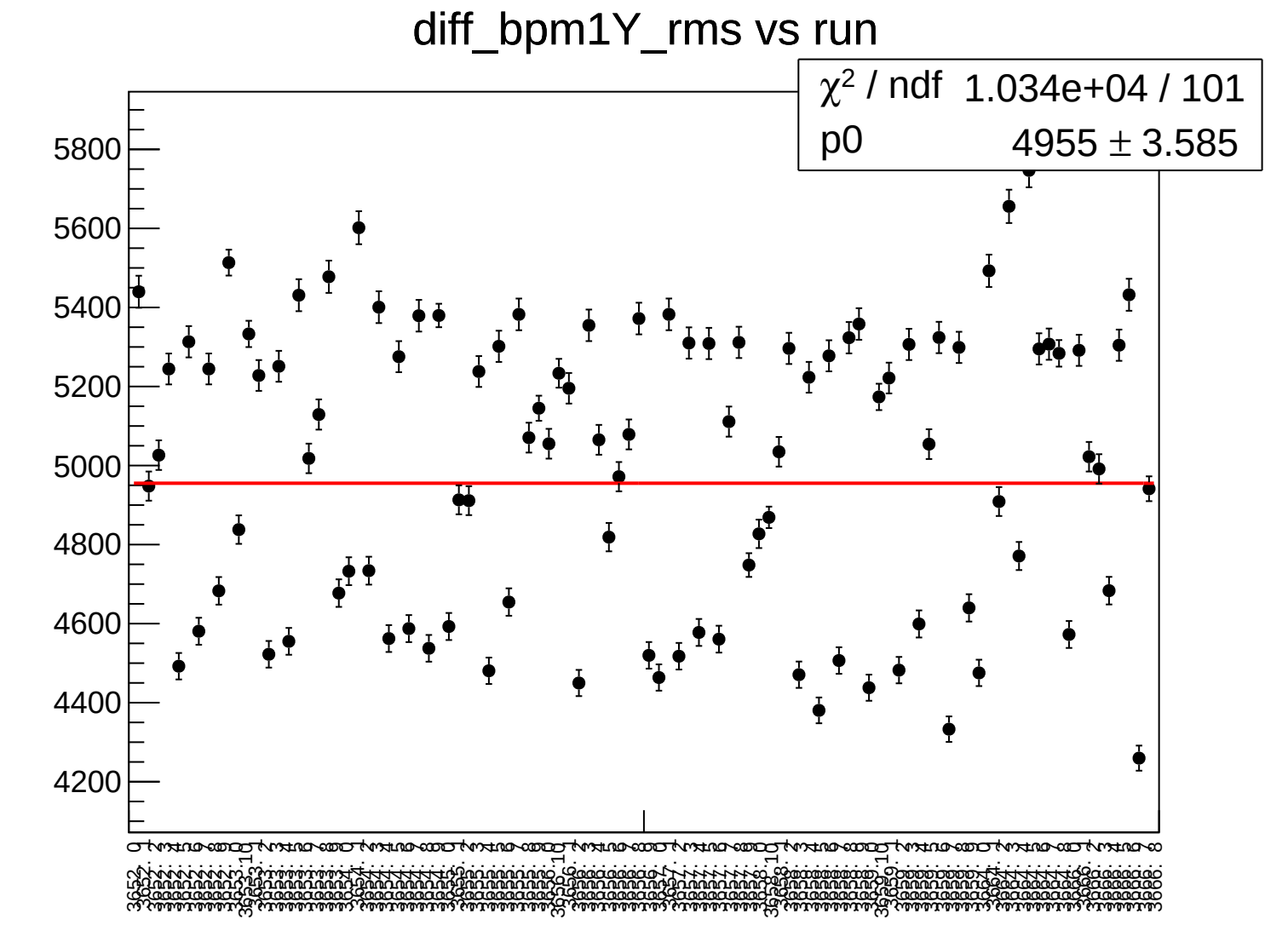

diff_bpm1X_mean vs run
χ² / ndf 117.3 / 101
p0 10.08 ± 8.003
300
200
100
0
−100
−200
−300
pull
Entries 102
Mean 1489
Std Dev 1459
2
1
0
−1
−2

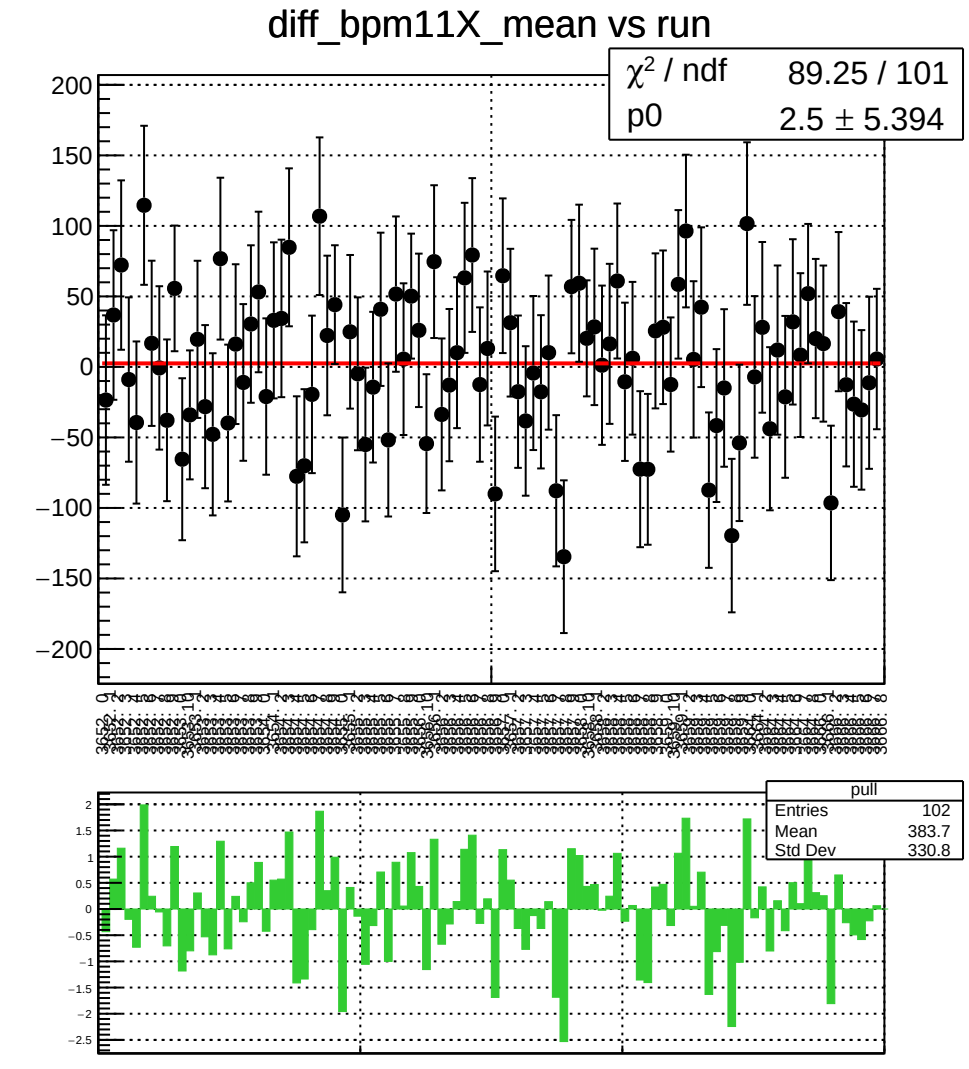

pull1D
Entries 102
Mean −0.003077
Std Dev 1.072
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

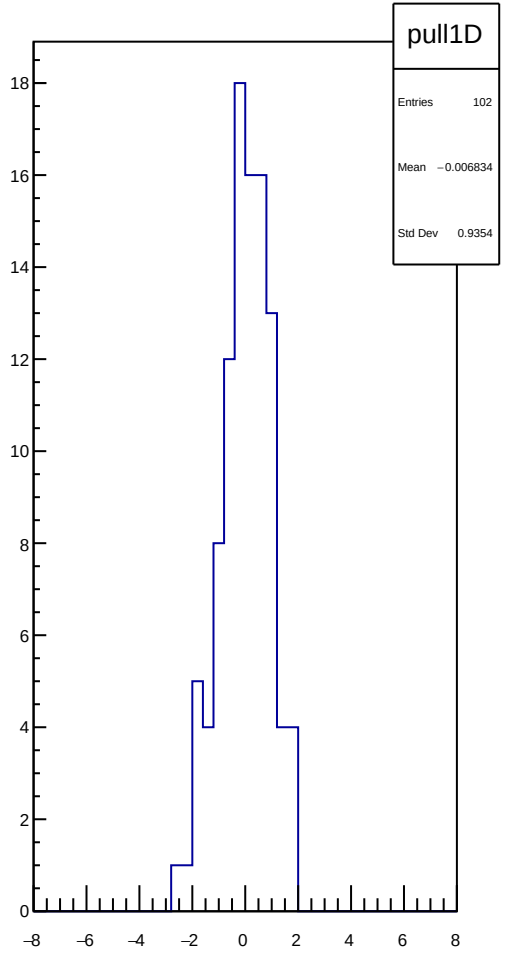

diff_bpm1X_rms vs run
χ^2 / ndf 2693 / 101
p0 7837 ± 5.659
9000
8800
8600
8400
8200
8000
7800
7600
7400

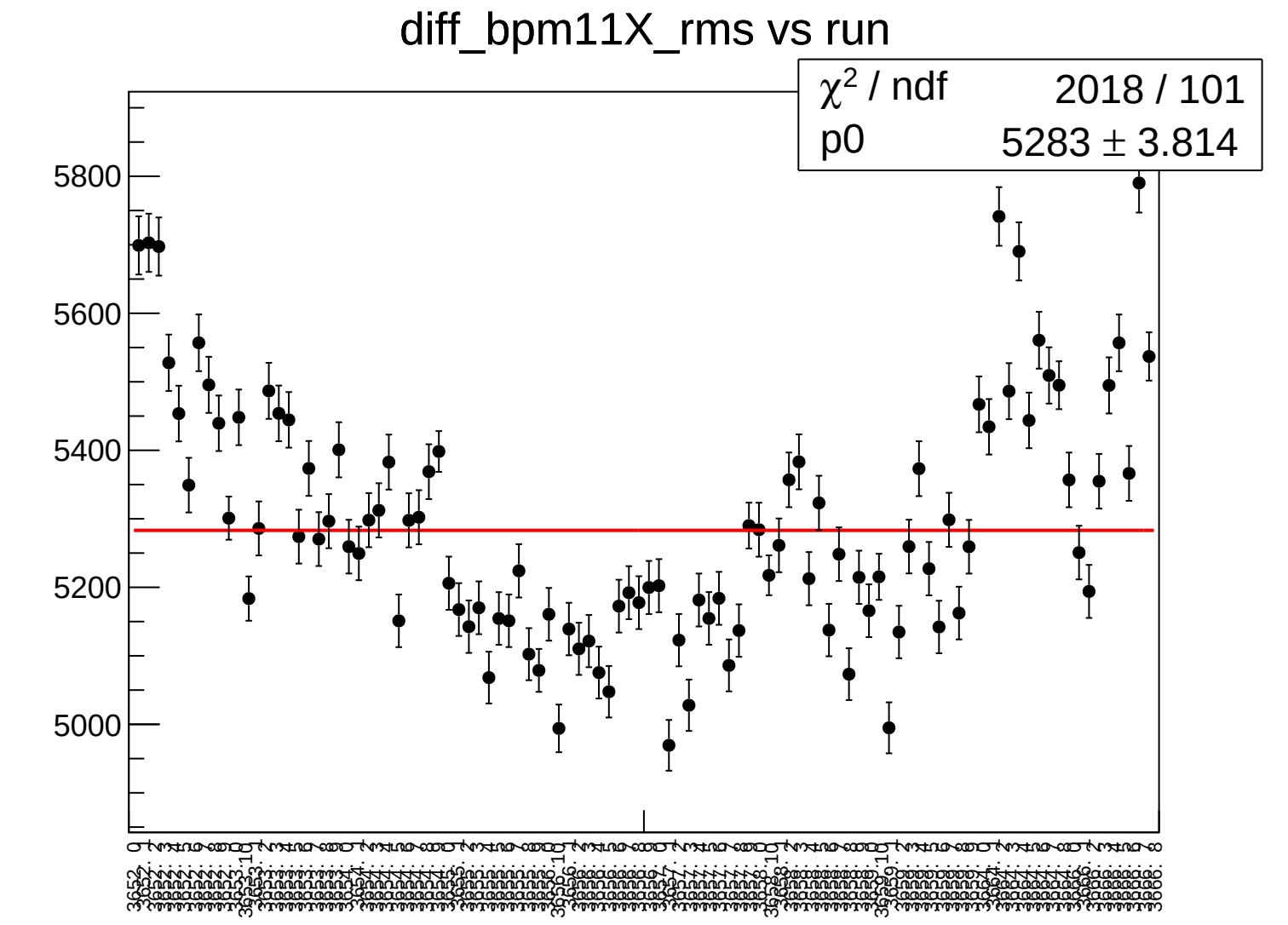

diff_bpm1Y_mean vs run
χ² / ndf 104.3 / 101
p0 8.458 ± 5.071
pull
Entries 102
Mean 4061
Std Dev 4016

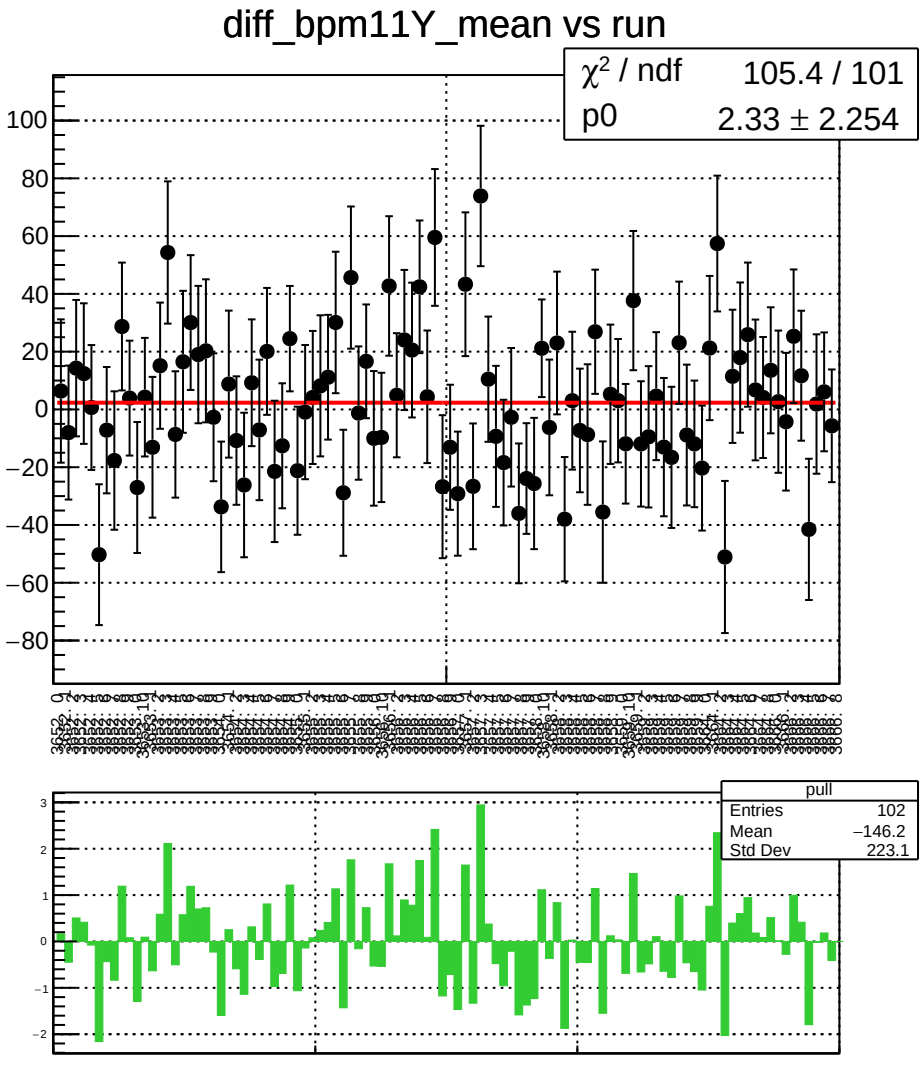

pull1D
Entries 102
Mean 0.0009452
Std Dev 1.011

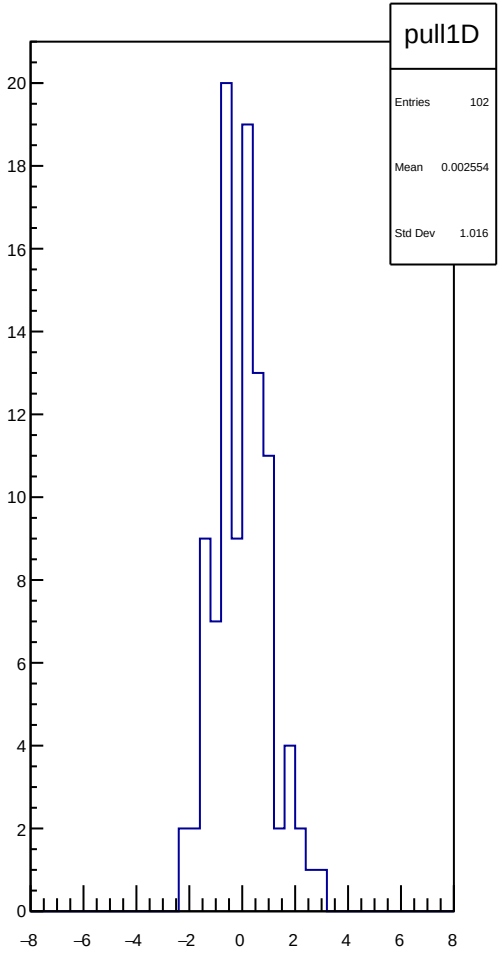

diff_bpm1Y_rms vs run
χ² / ndf 1.034e+04 / 101
p0 4955 ± 3.585
5800
5600
5400
5200
5000
4800
4600
4400
4200

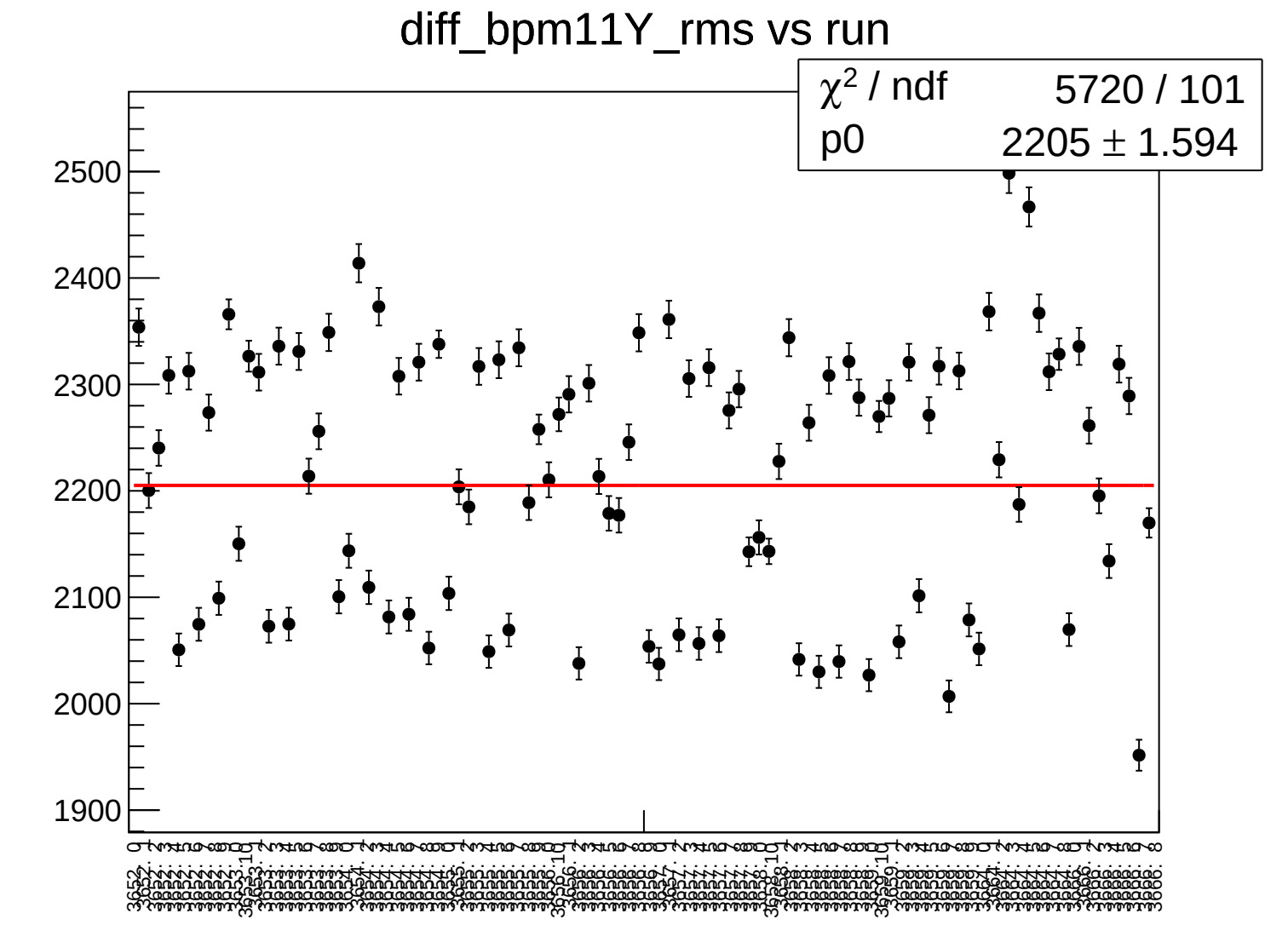

diff_bpm11X_mean vs run
χ² / ndf 89.25 / 101
p0 2.5 ± 5.394
pull
Entries 102
Mean 383.7
Std Dev 330.8

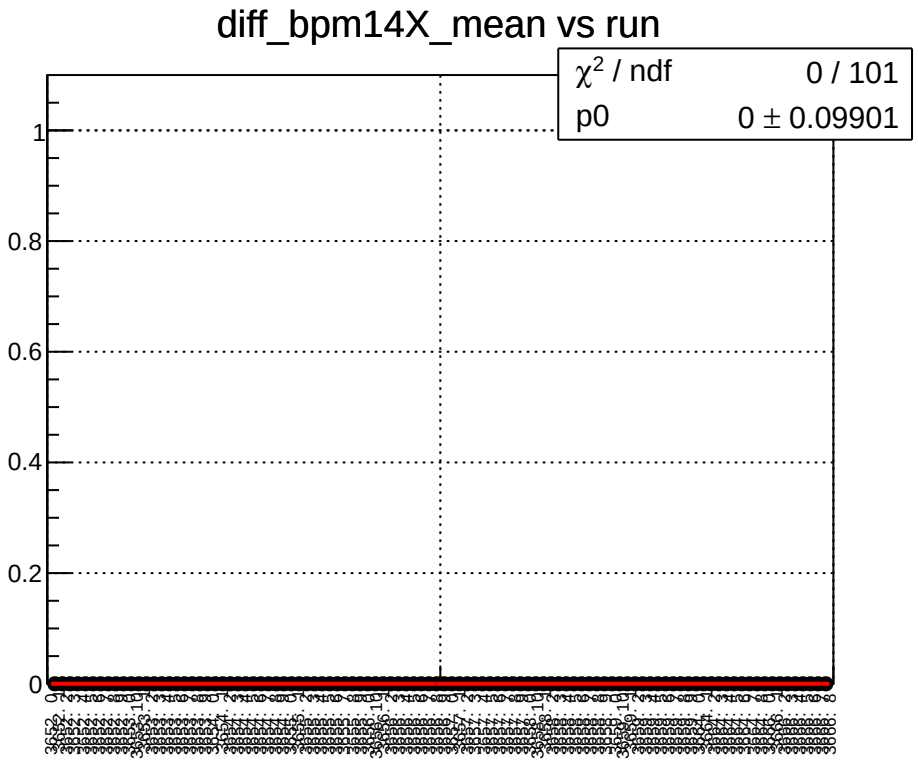

pull1D
Entries 102
Mean −0.006834
Std Dev 0.9354

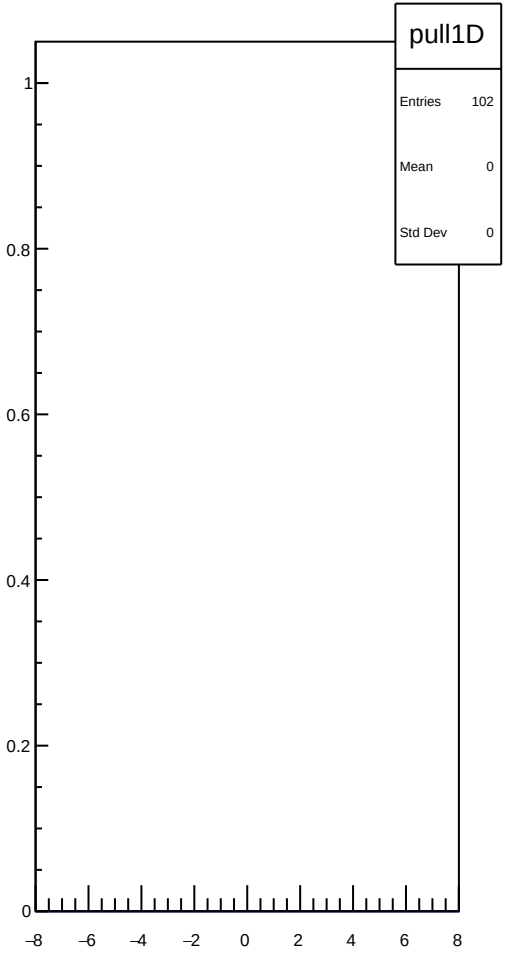

diff_bpm11X_rms vs run
χ² / ndf 2018 / 101
p0 5283 ± 3.814
5800
5600
5400
5200
5000

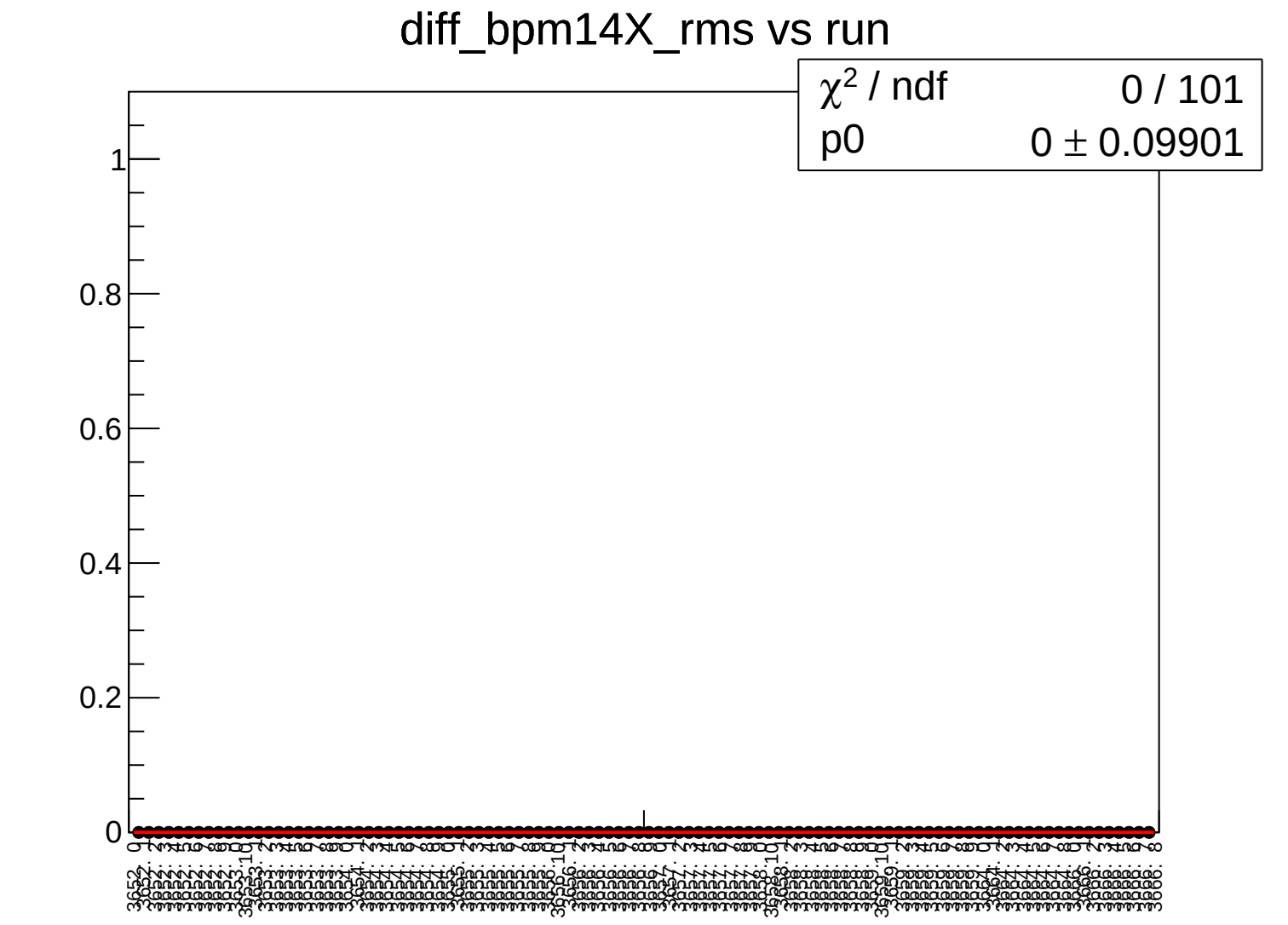

diff_bpm11Y_mean vs run
χ² / ndf 105.4 / 101
p0 2.33 ± 2.254
pull
Entries 102
Mean −146.2
Std Dev 223.1

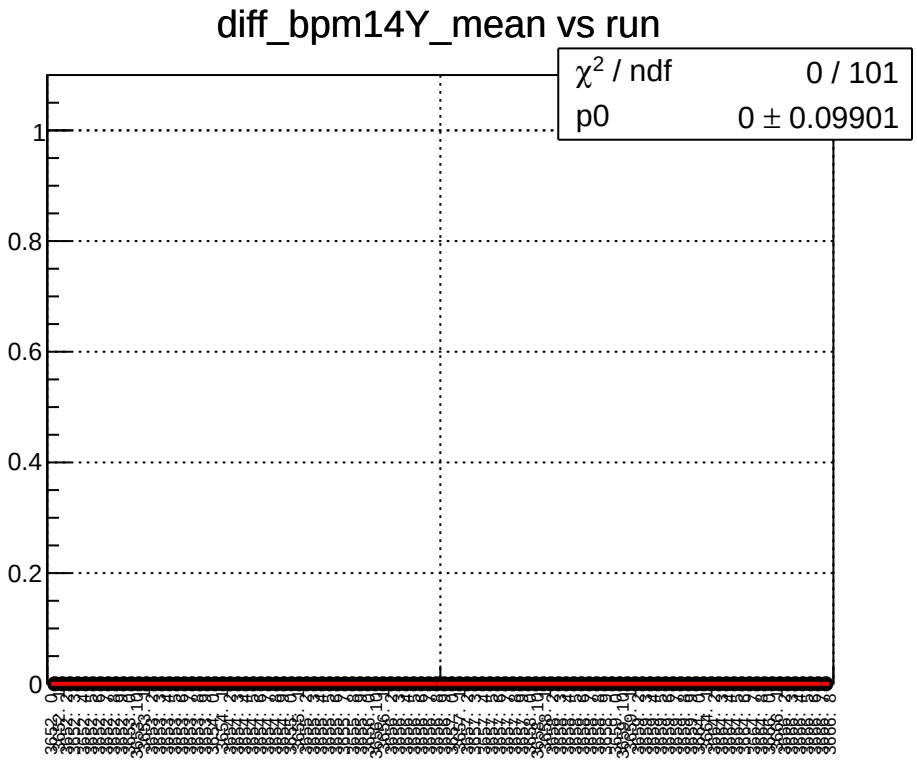

pull1D
Entries 102
Mean 0.002554
Std Dev 1.016

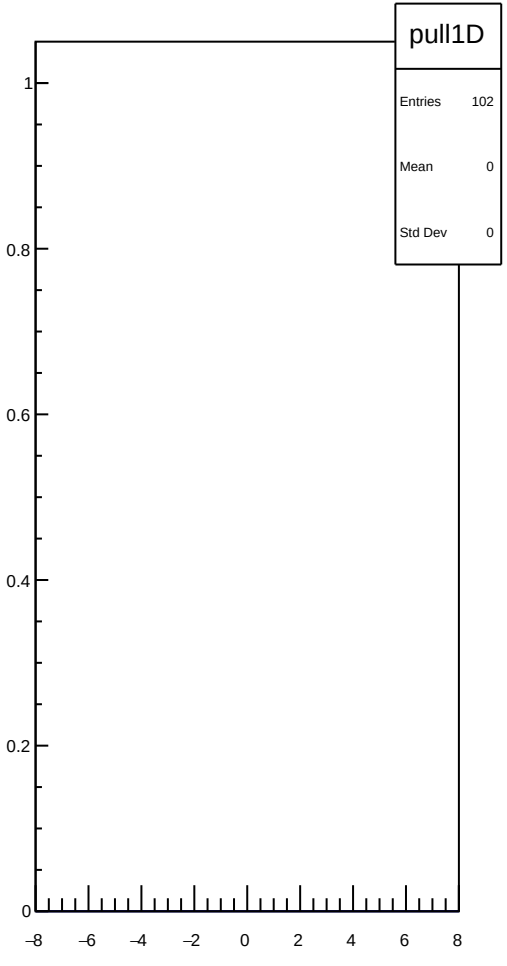

diff_bpm11Y_rms vs run
χ² / ndf 5720 / 101
p0 2205 ± 1.594
2500
2400
2300
2200
2100
2000
1900

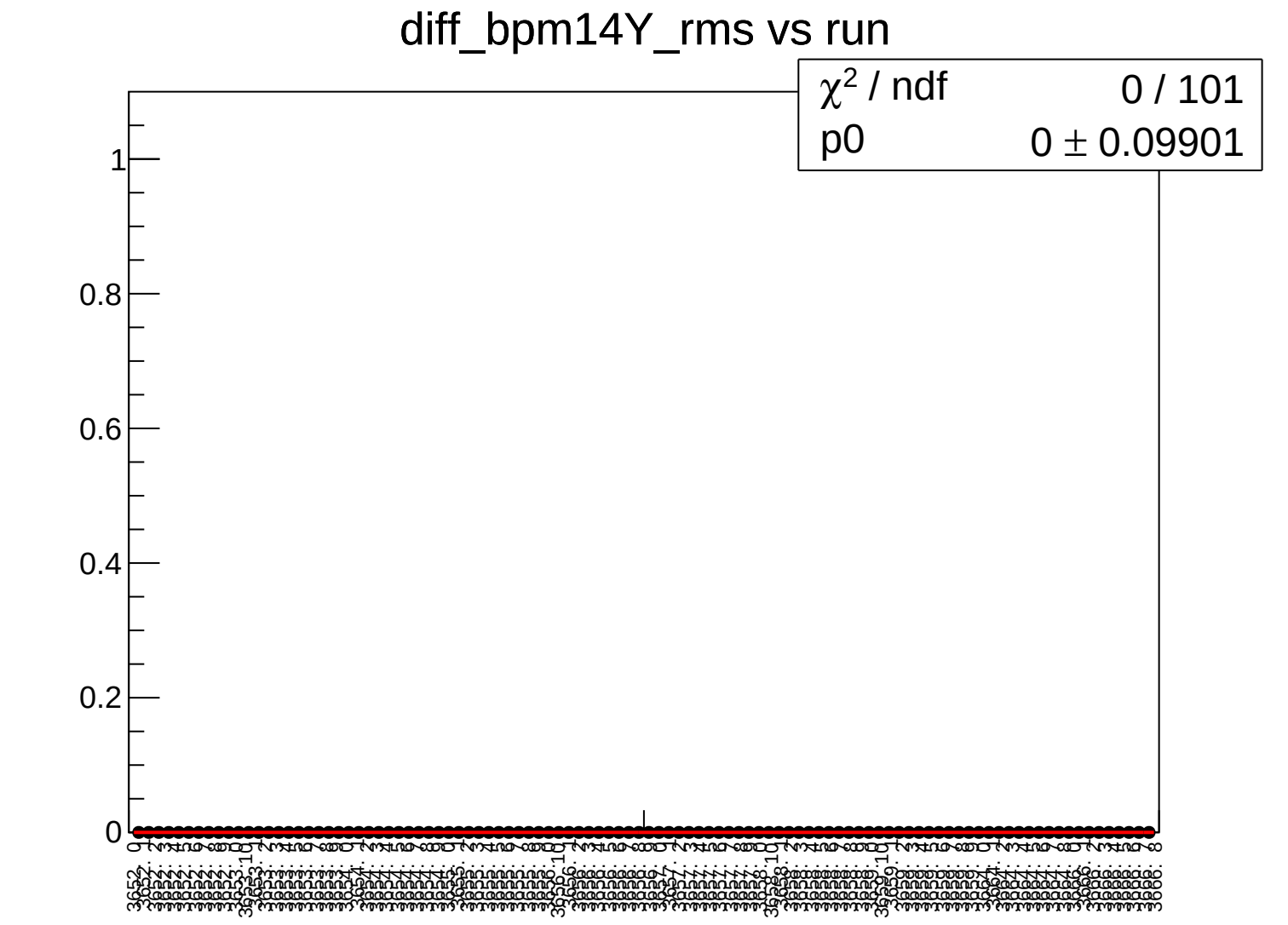

diff_bpm14X_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

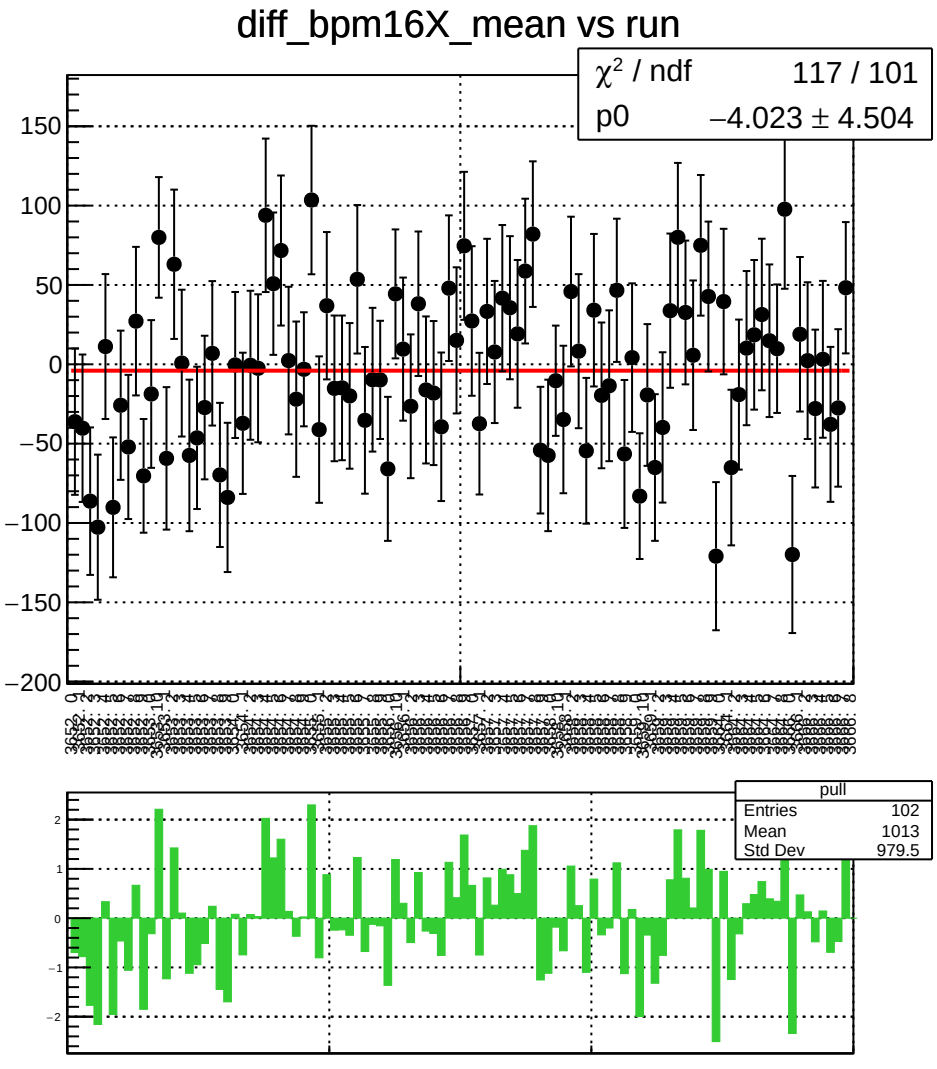

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

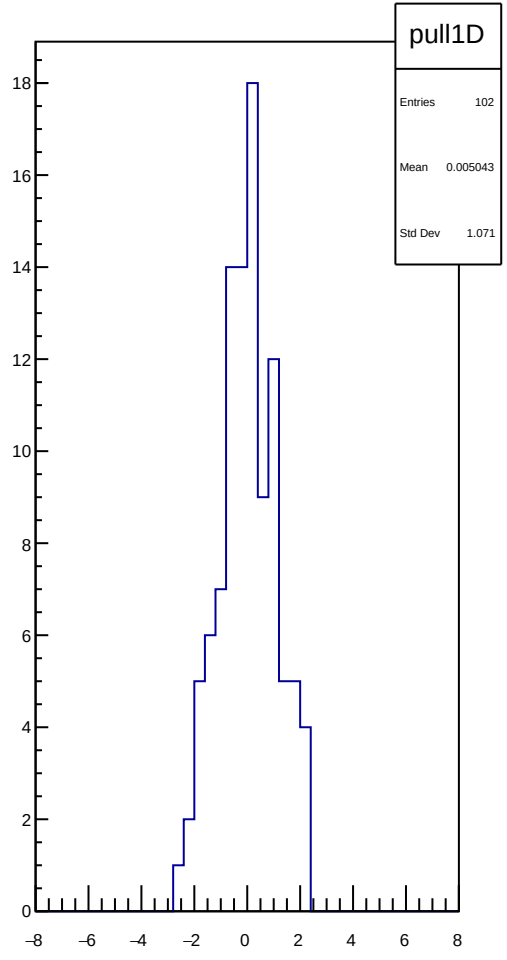

diff_bpm14X_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

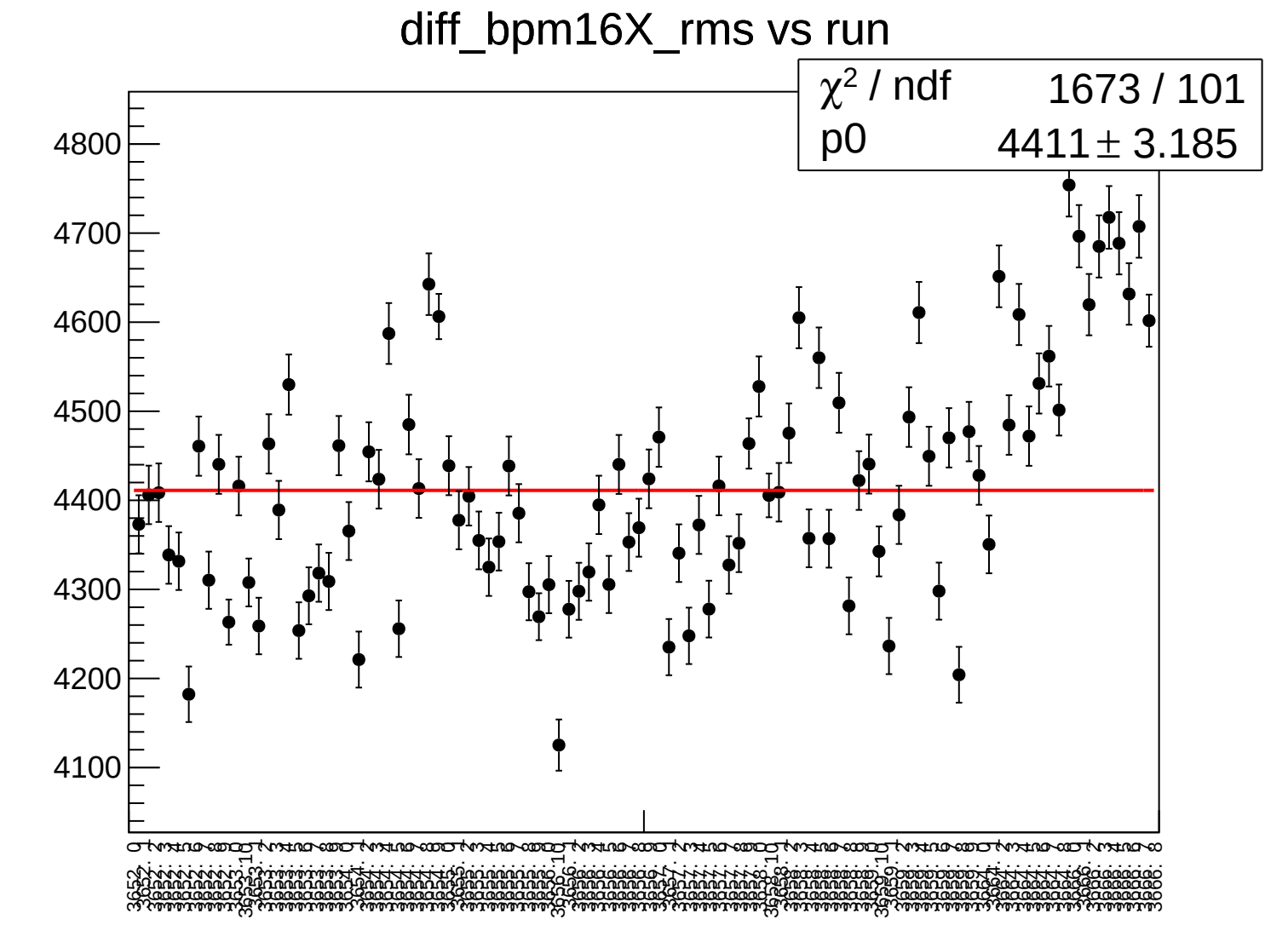

diff_bpm14Y_mean vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

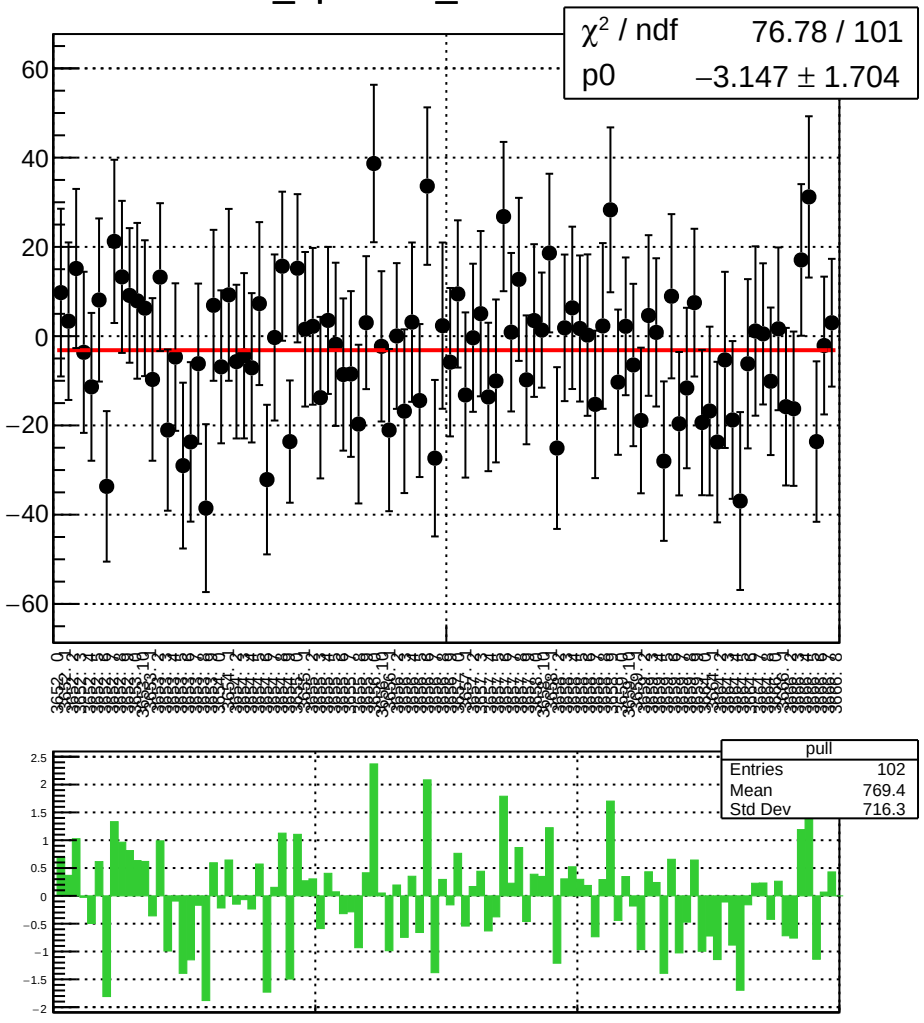

pull1D
Entries 102
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

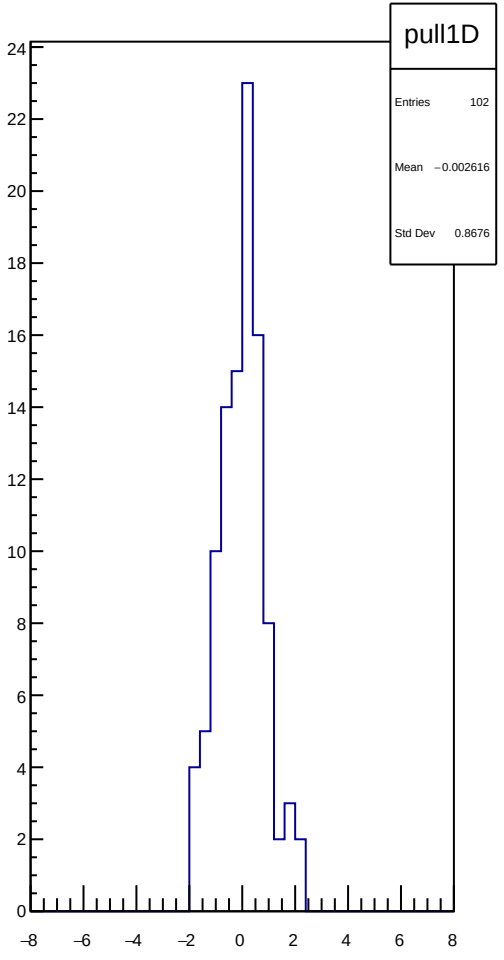

diff_bpm14Y_rms vs run
χ² / ndf 0 / 101
p0 0 ± 0.09901
1
0.8
0.6
0.4
0.2
0

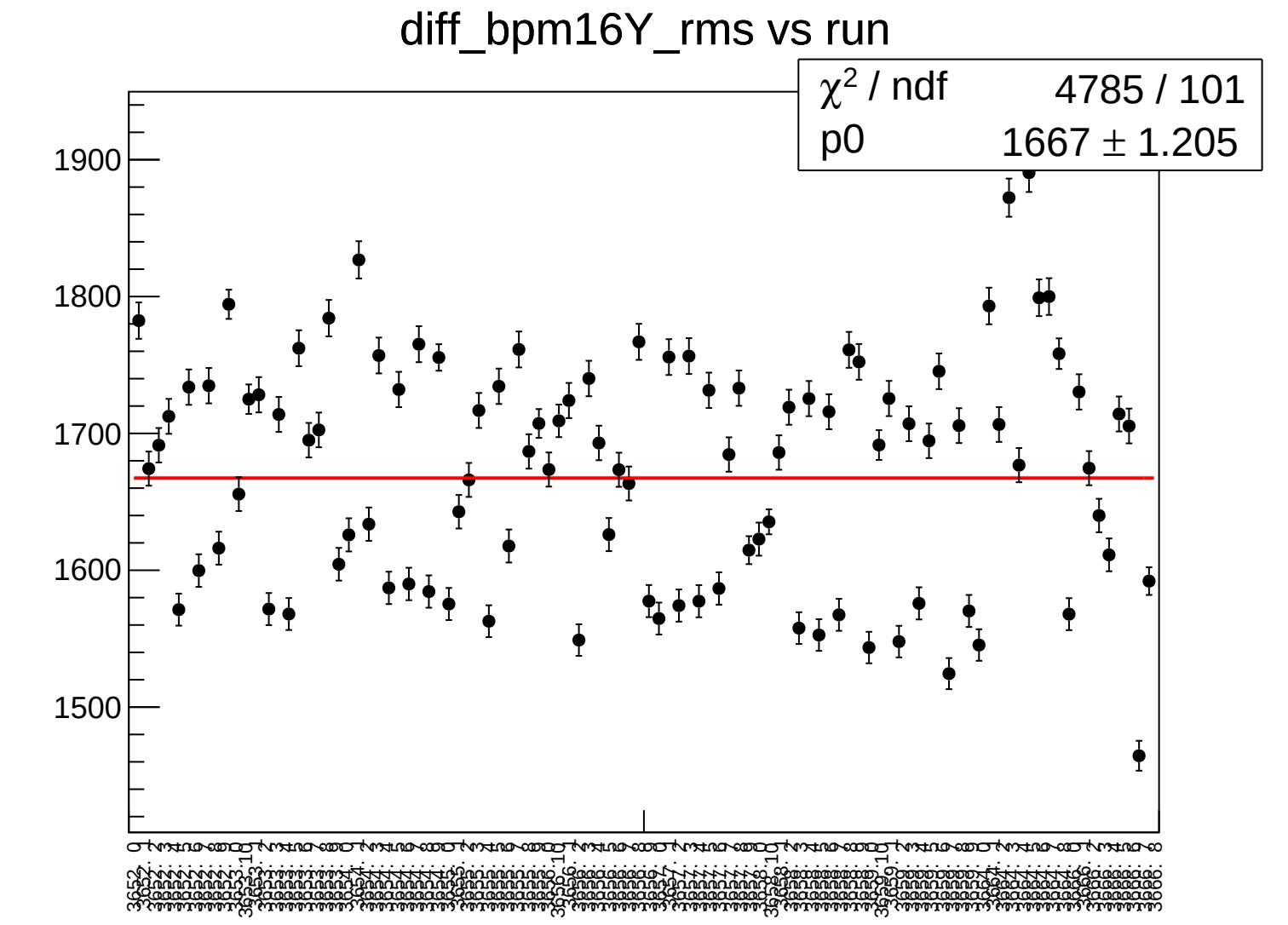

diff_bpm16X_mean vs run
χ² / ndf 117 / 101
p0 −4.023 ± 4.504
150
100
50
0
−50
−100
−150
−200
pull
Entries 102
Mean 1013
Std Dev 979.5
2
1
0
−1
−2

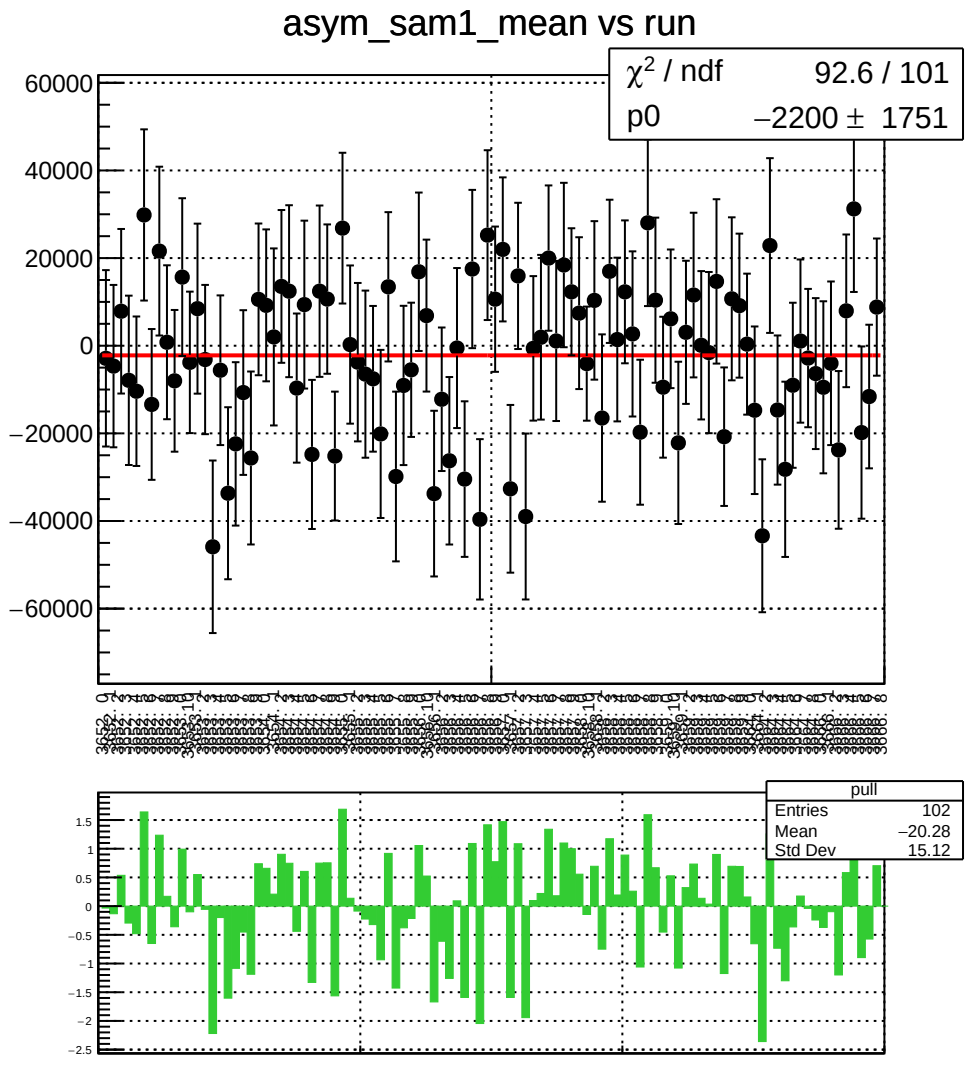

pull1D
Entries 102
Mean 0.005043
Std Dev 1.071
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

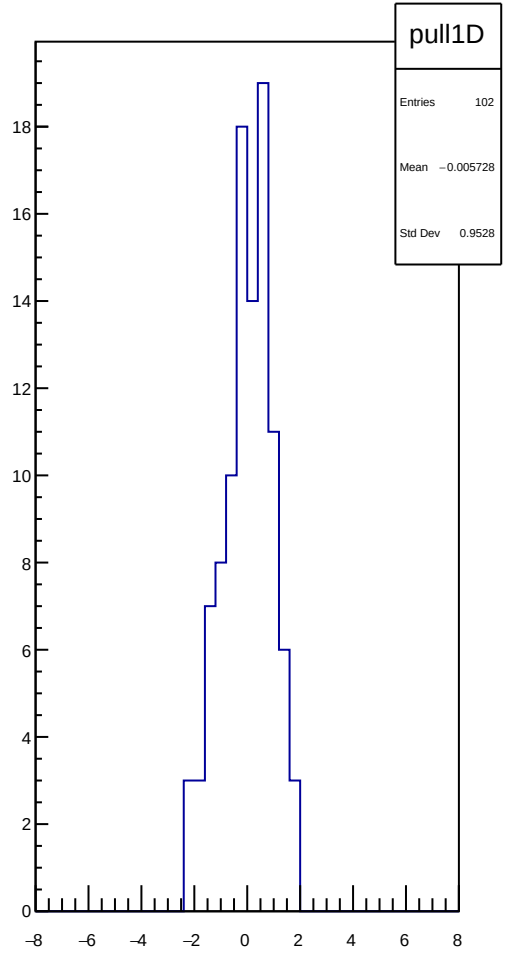

diff_bpm16X_rms vs run
χ² / ndf 1673 / 101
p0 4411 ± 3.185
4800
4700
4600
4500
4400
4300
4200
4100

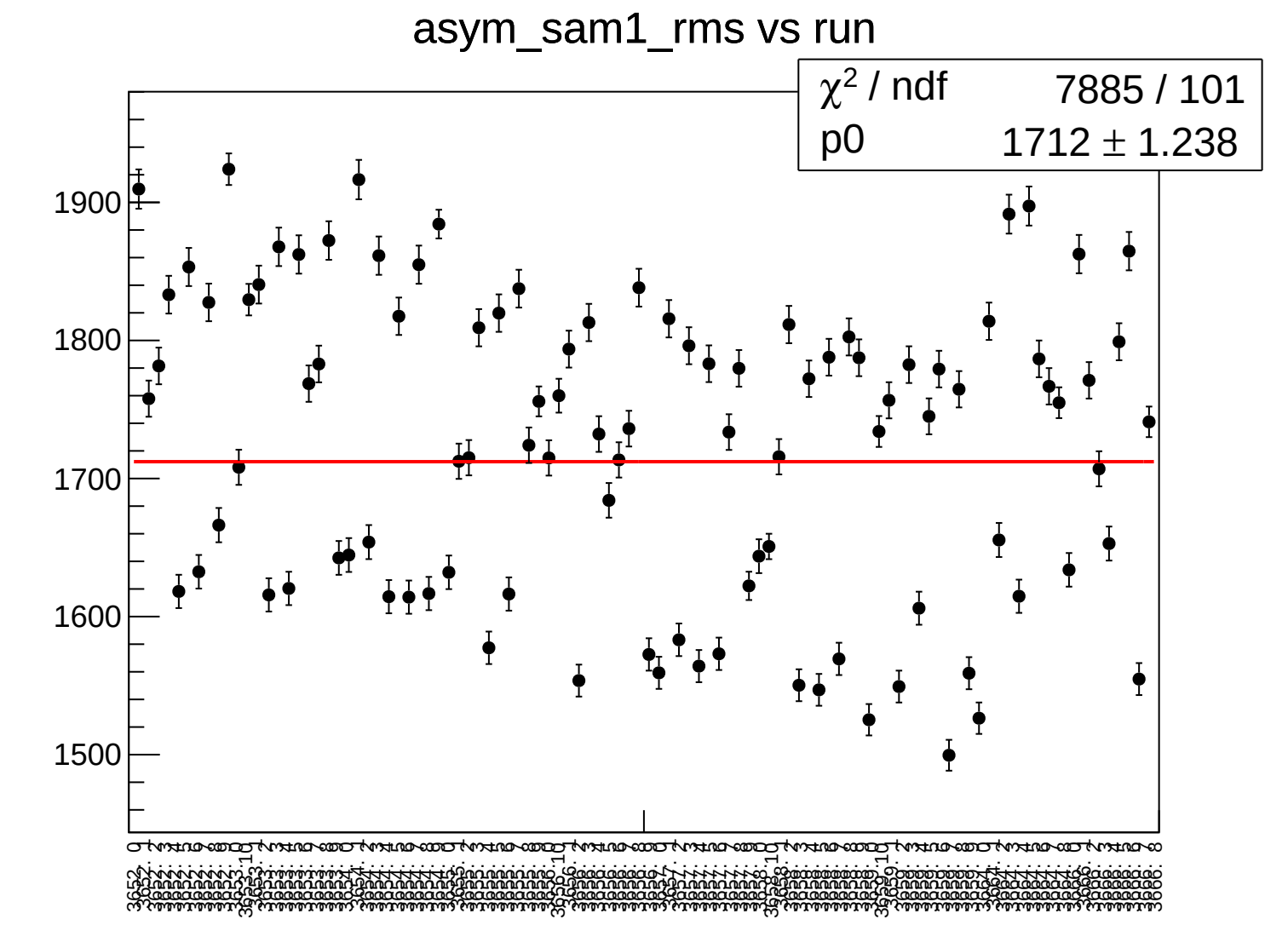

diff_bpm16Y_mean vs run
χ² / ndf 76.78 / 101
p0 −3.147 ± 1.704
pull
Entries 102
Mean 769.4
Std Dev 716.3

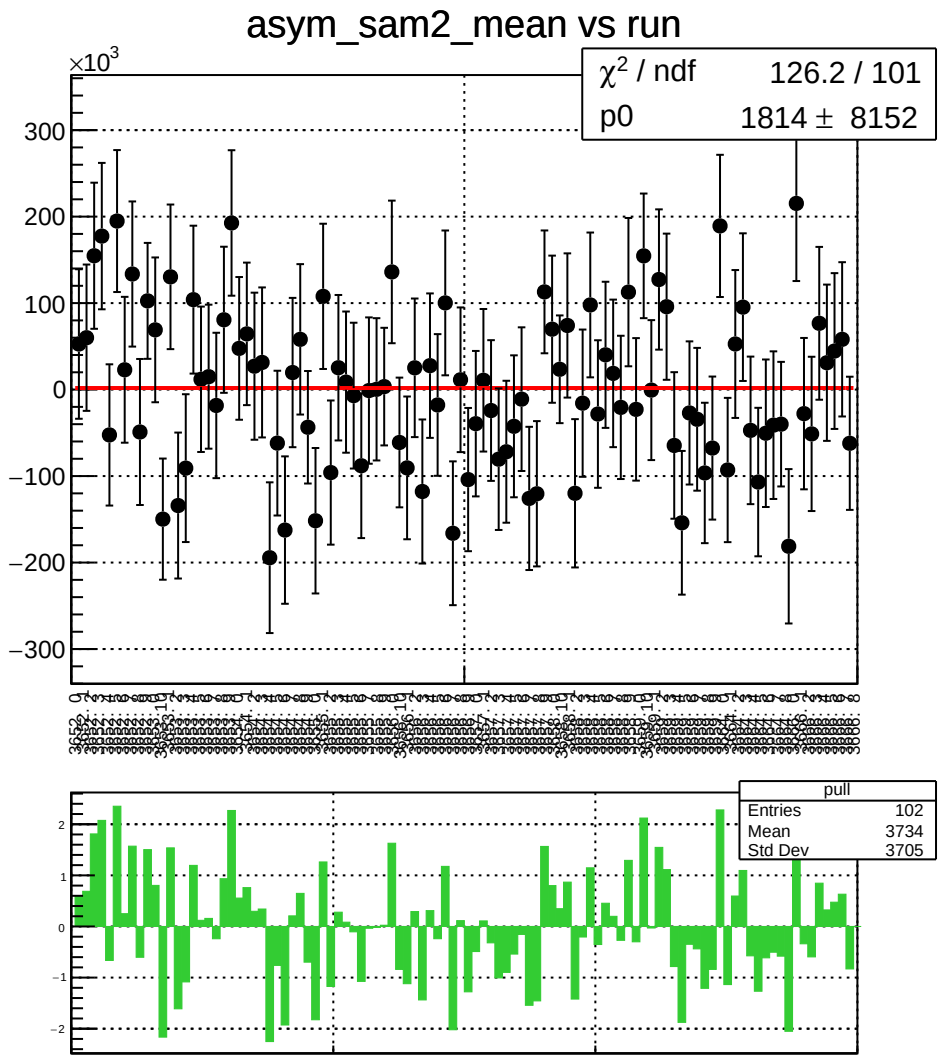

pull1D
Entries 102
Mean −0.002616
Std Dev 0.8676

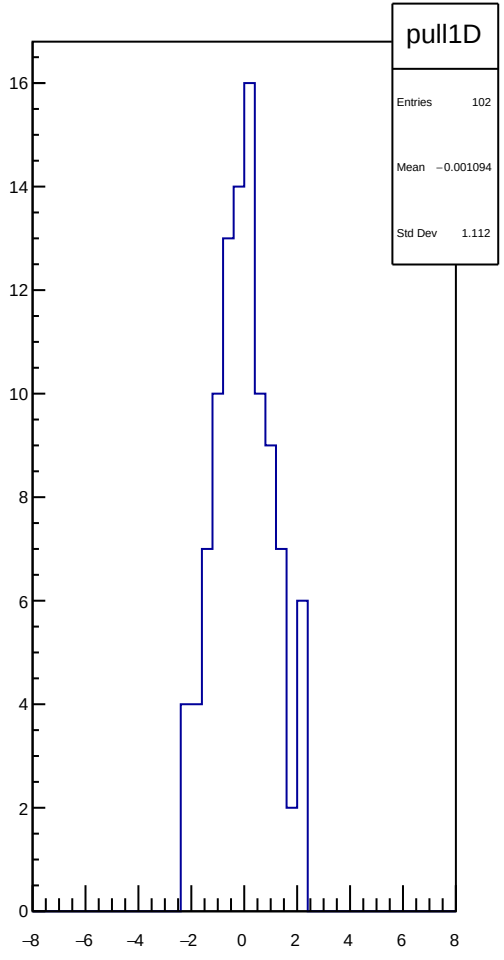

diff_bpm16Y_rms vs run
χ² / ndf 4785 / 101
p0 1667 ± 1.205
1900
1800
1700
1600
1500

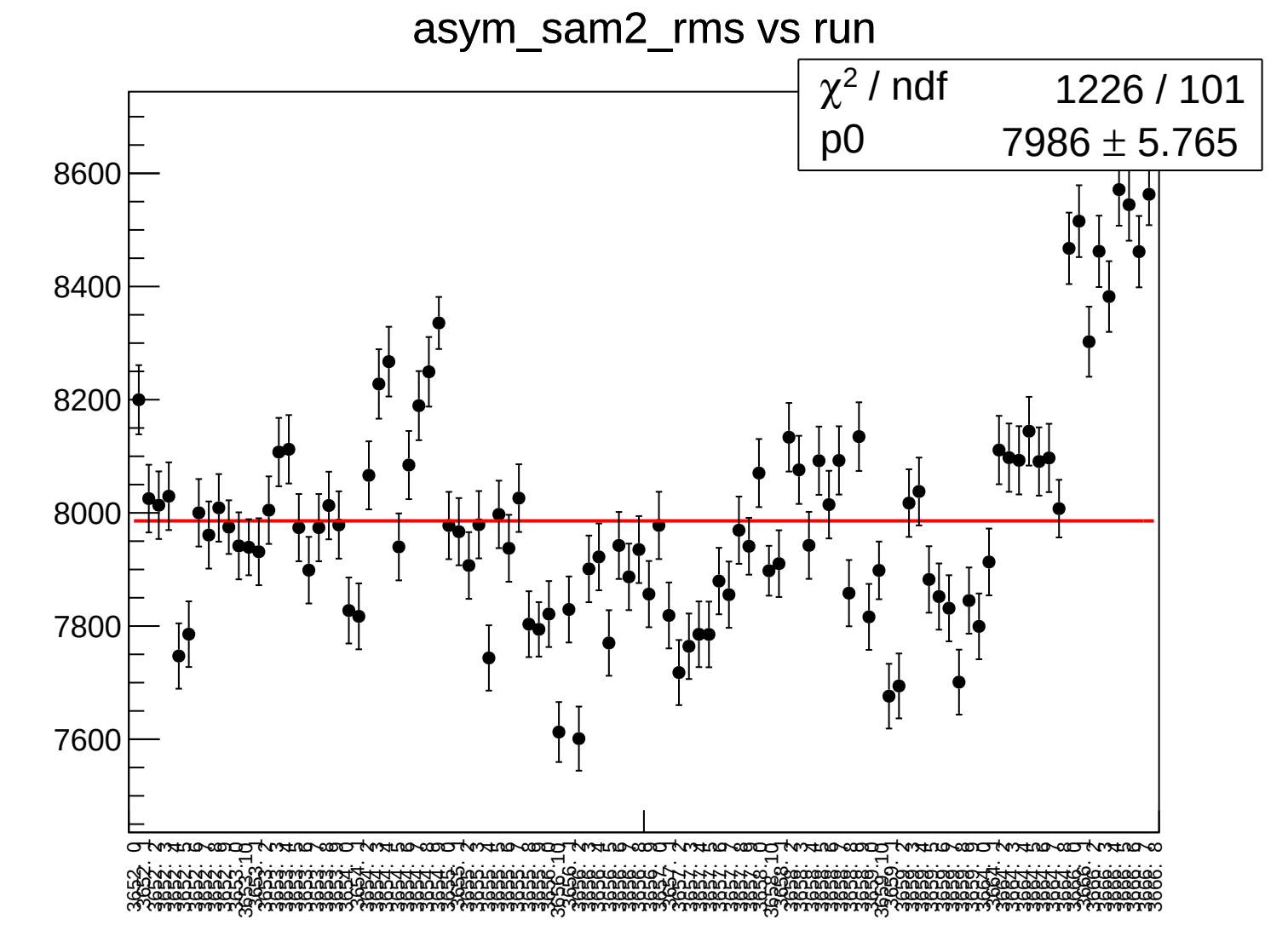

asym_sam1_mean vs run
χ² / ndf 92.6 / 101
p0 −2200 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 102
Mean −20.28
Std Dev 15.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

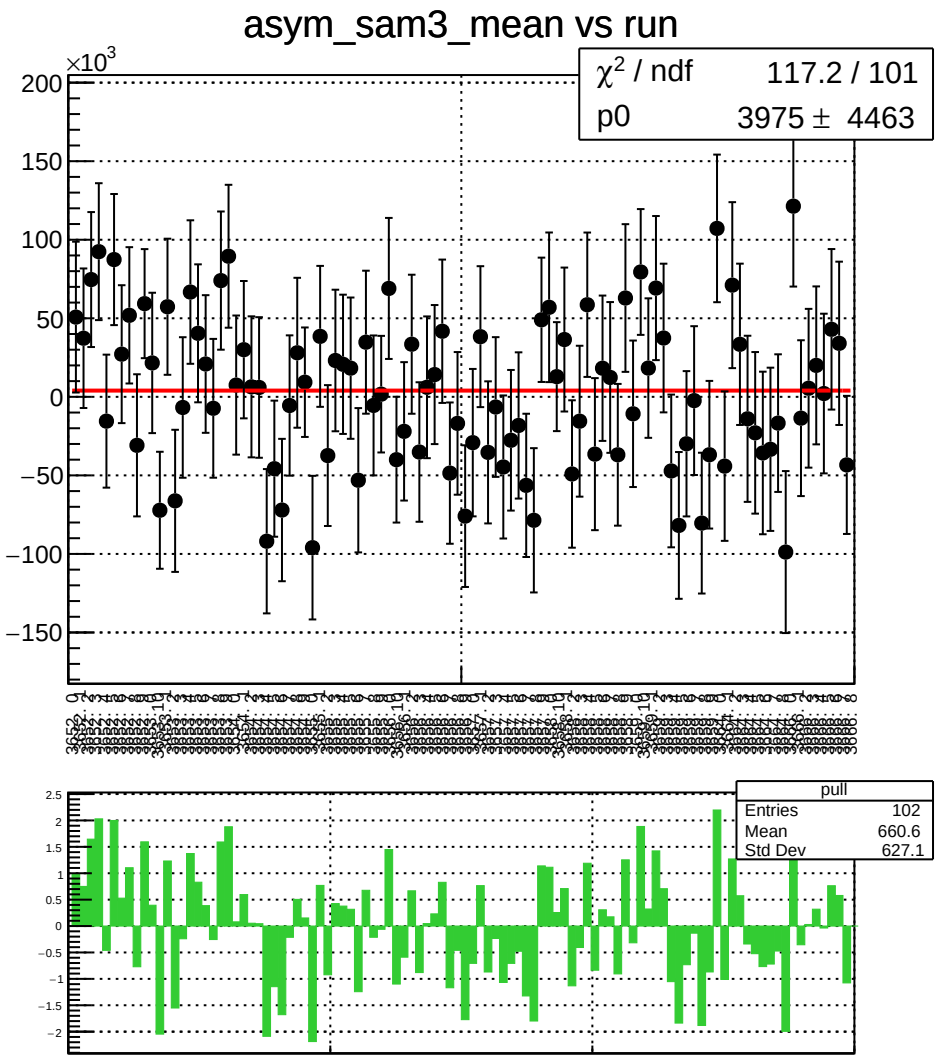

pull1D
Entries 102
Mean −0.005728
Std Dev 0.9528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

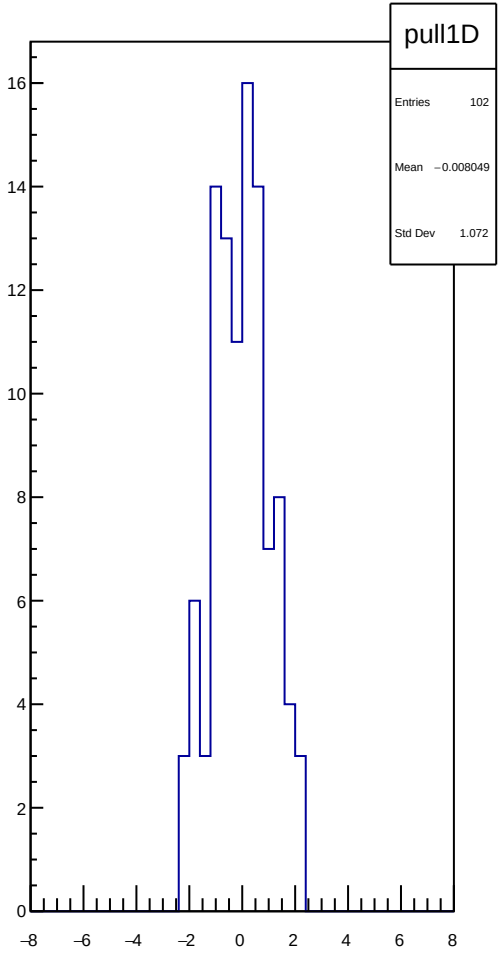

asym_sam1_rms vs run
χ^2 / ndf 7885 / 101
p0 1712 ± 1.238
1900
1800
1700
1600
1500

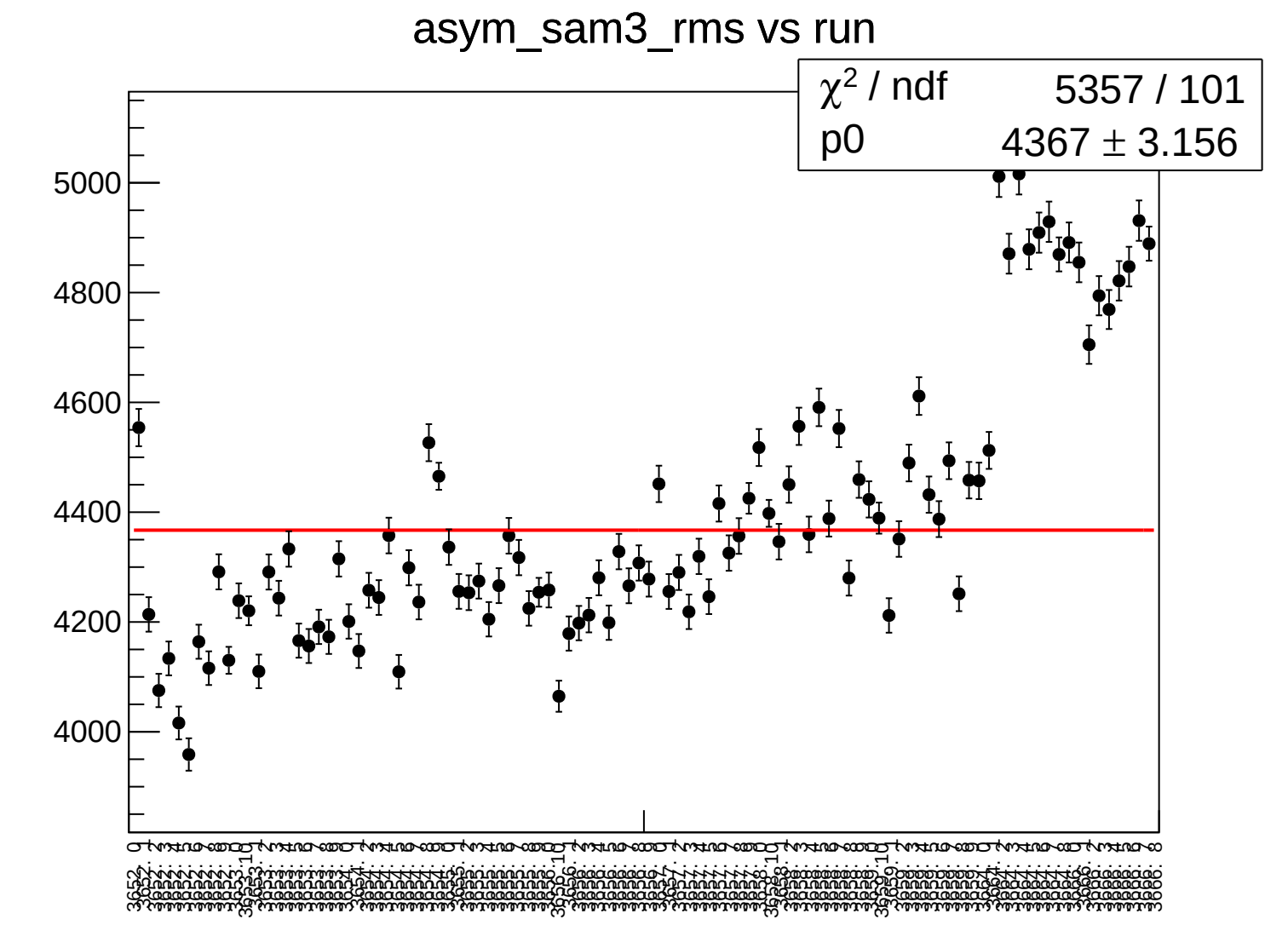

asym_sam2_mean vs run
×10^3
χ^2 / ndf 126.2 / 101
p0 1814 ± 8152
300
200
100
0
−100
−200
−300
pull
Entries 102
Mean 3734
Std Dev 3705
2
1
0
−1
−2

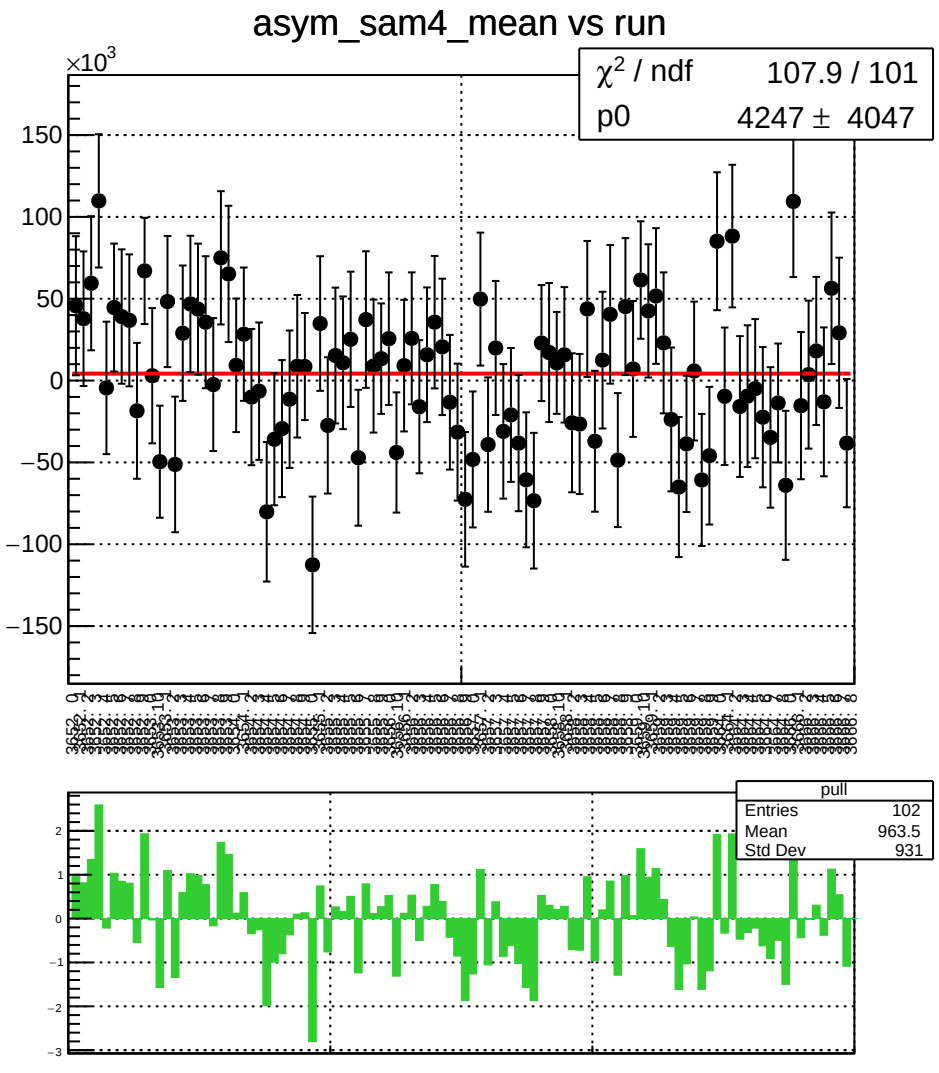

pull1D
Entries 102
Mean −0.001094
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

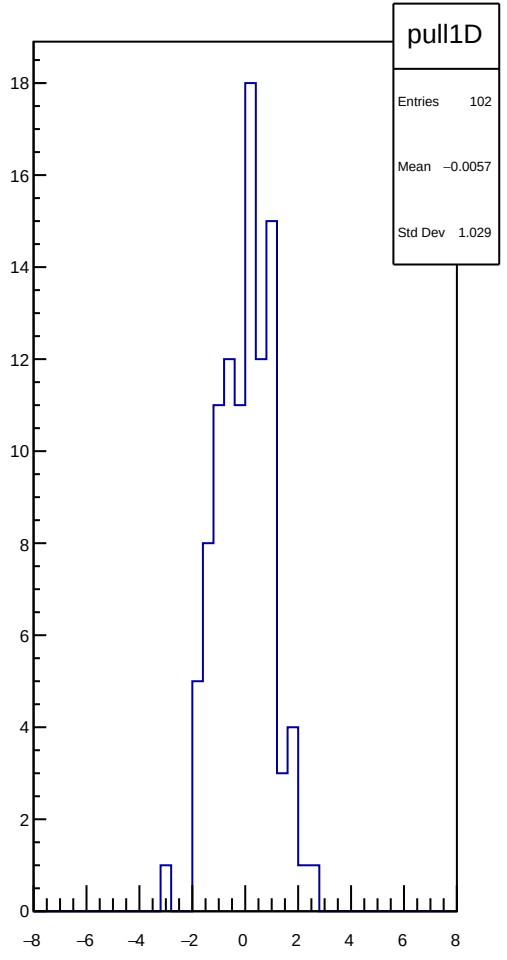

asym_sam2_rms vs run
χ^2 / ndf 1226 / 101
p0 7986 ± 5.765
8600
8400
8200
8000
7800
7600

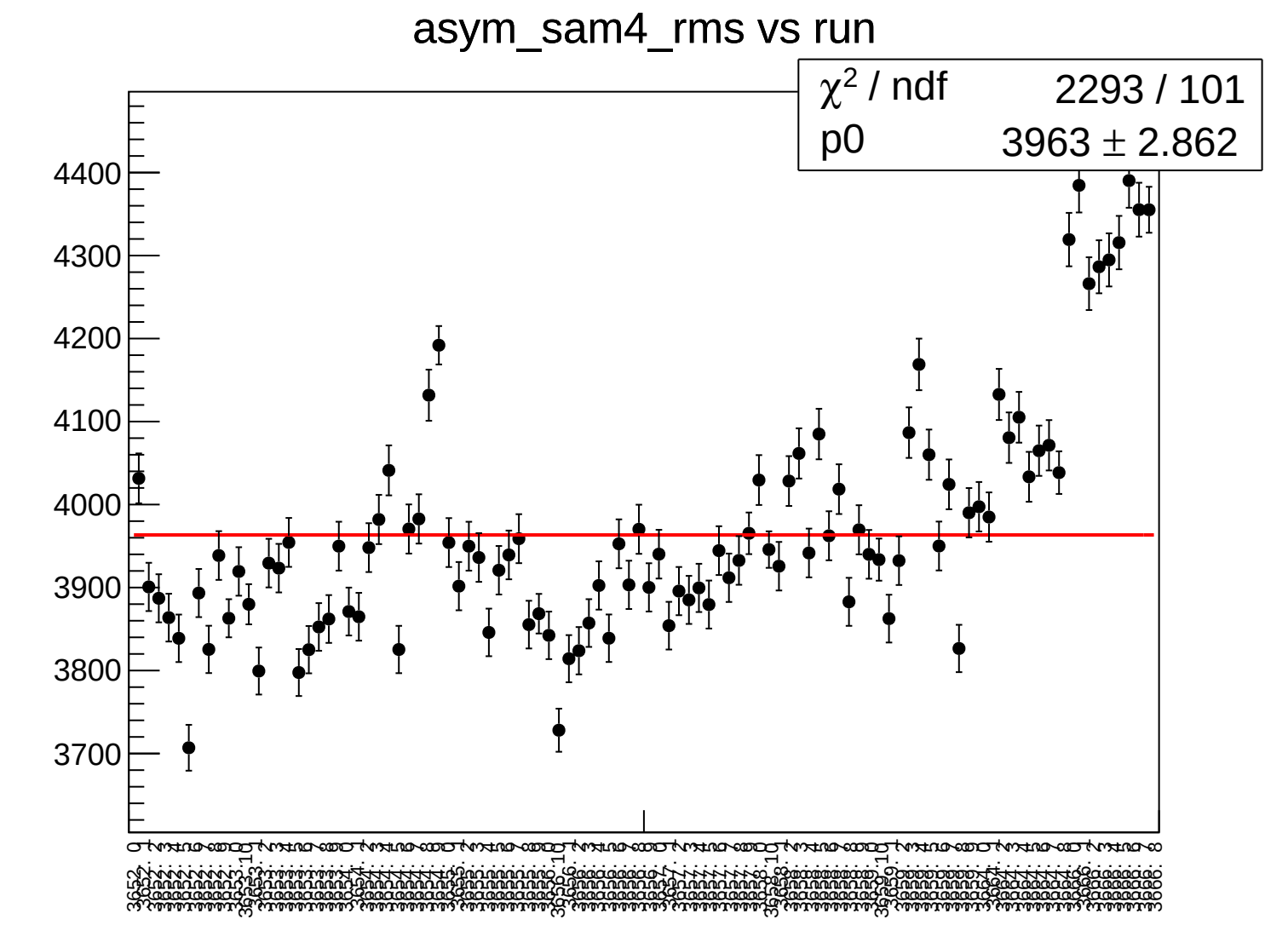

asym_sam3_mean vs run
×10^3
χ^2 / ndf 117.2 / 101
p0 3975 ± 4463
pull
Entries 102
Mean 660.6
Std Dev 627.1

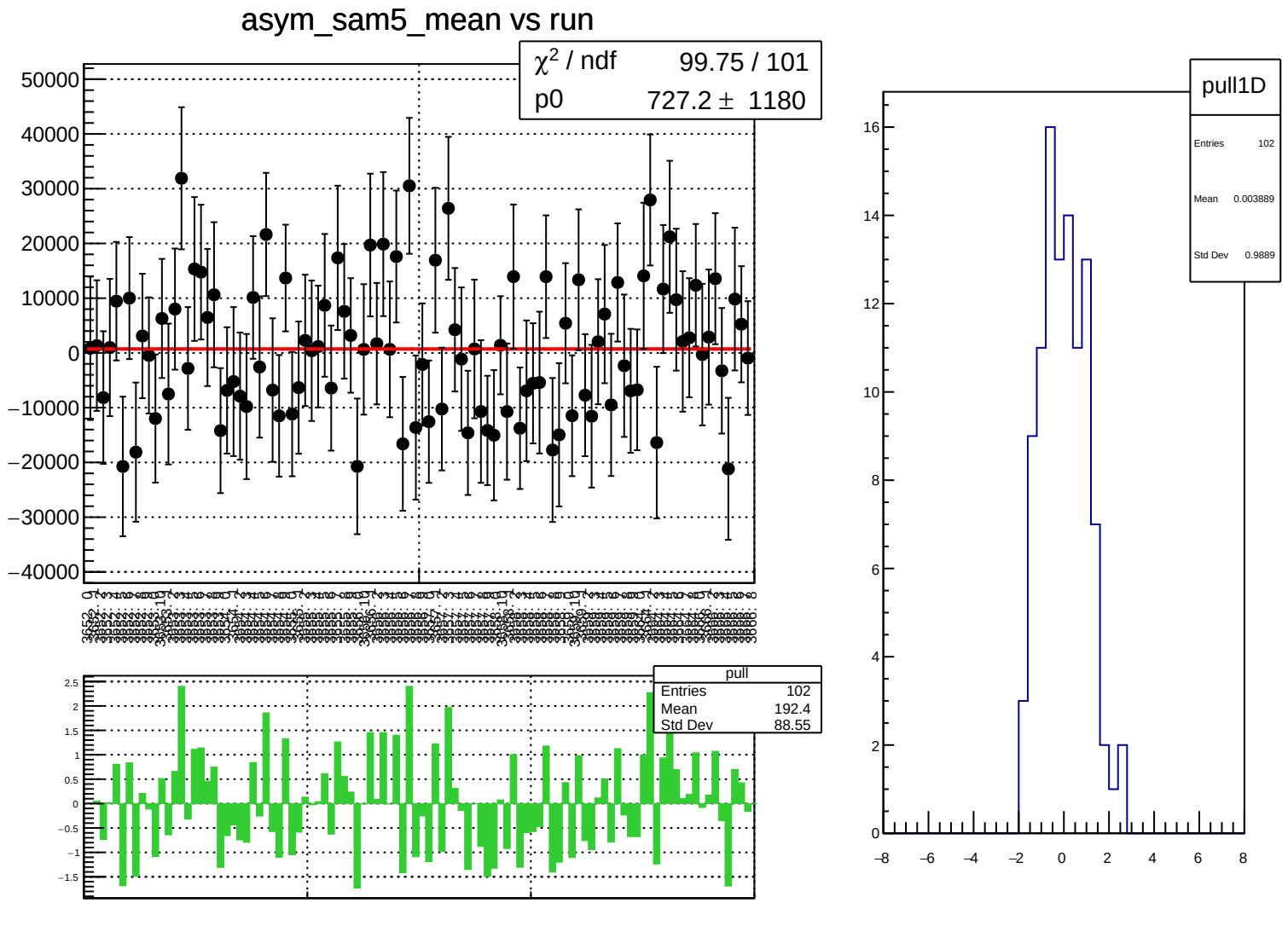

pull1D
Entries 102
Mean −0.008049
Std Dev 1.072

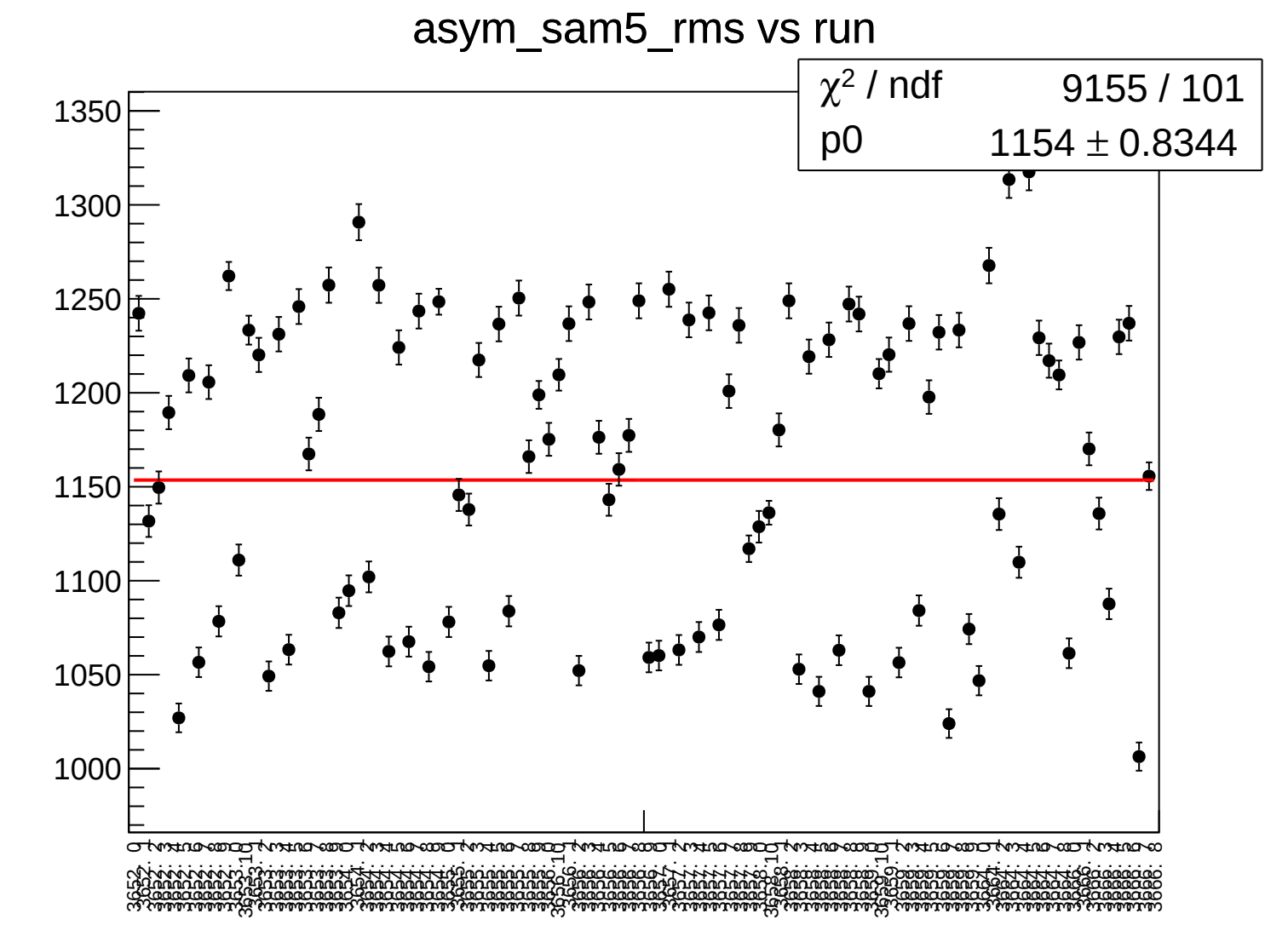

asym_sam3_rms vs run
χ^2 / ndf 5357 / 101
p0 4367 ± 3.156
5000
4800
4600
4400
4200
4000

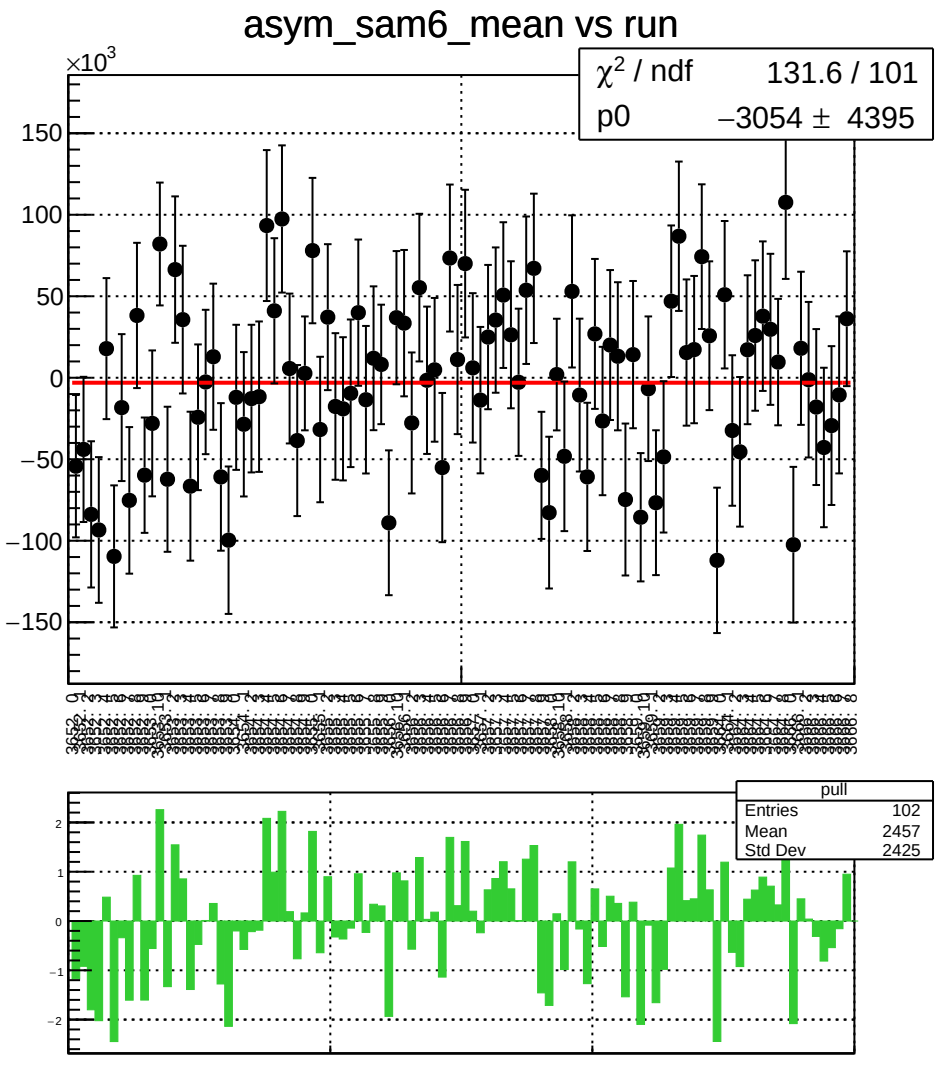

asym_sam4_mean vs run
×10^3
χ^2 / ndf 107.9 / 101
p0 4247 ± 4047
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 963.5
Std Dev 931
2
1
0
−1
−2
−3

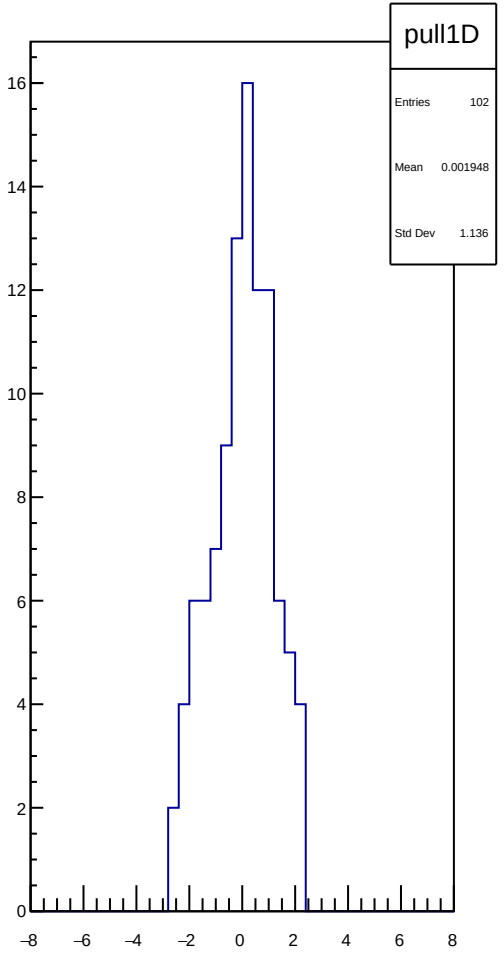

pull1D
Entries 102
Mean −0.0057
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

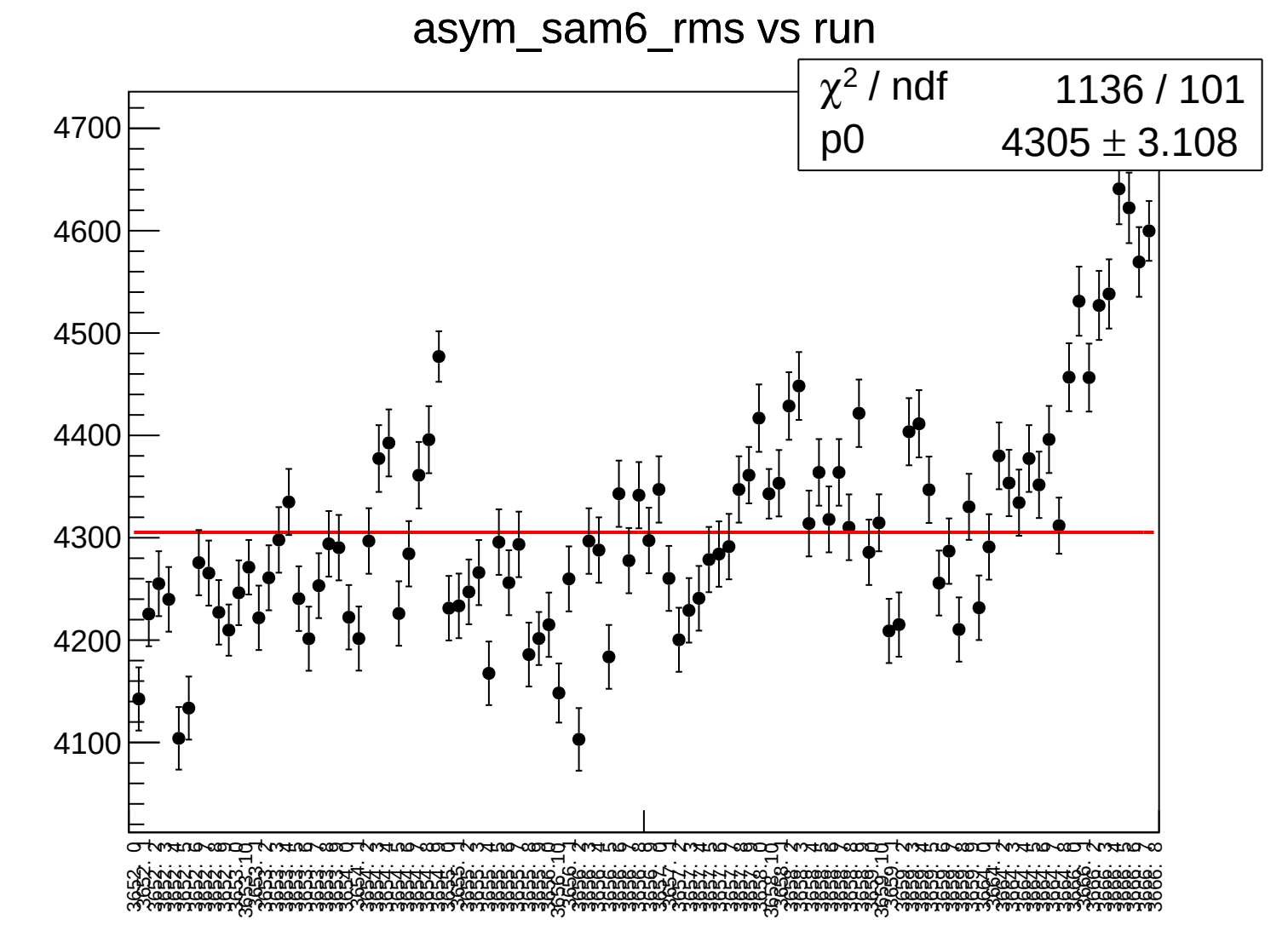

asym_sam4_rms vs run
χ² / ndf 2293 / 101
p0 3963 ± 2.862
4400
4300
4200
4100
4000
3900
3800
3700

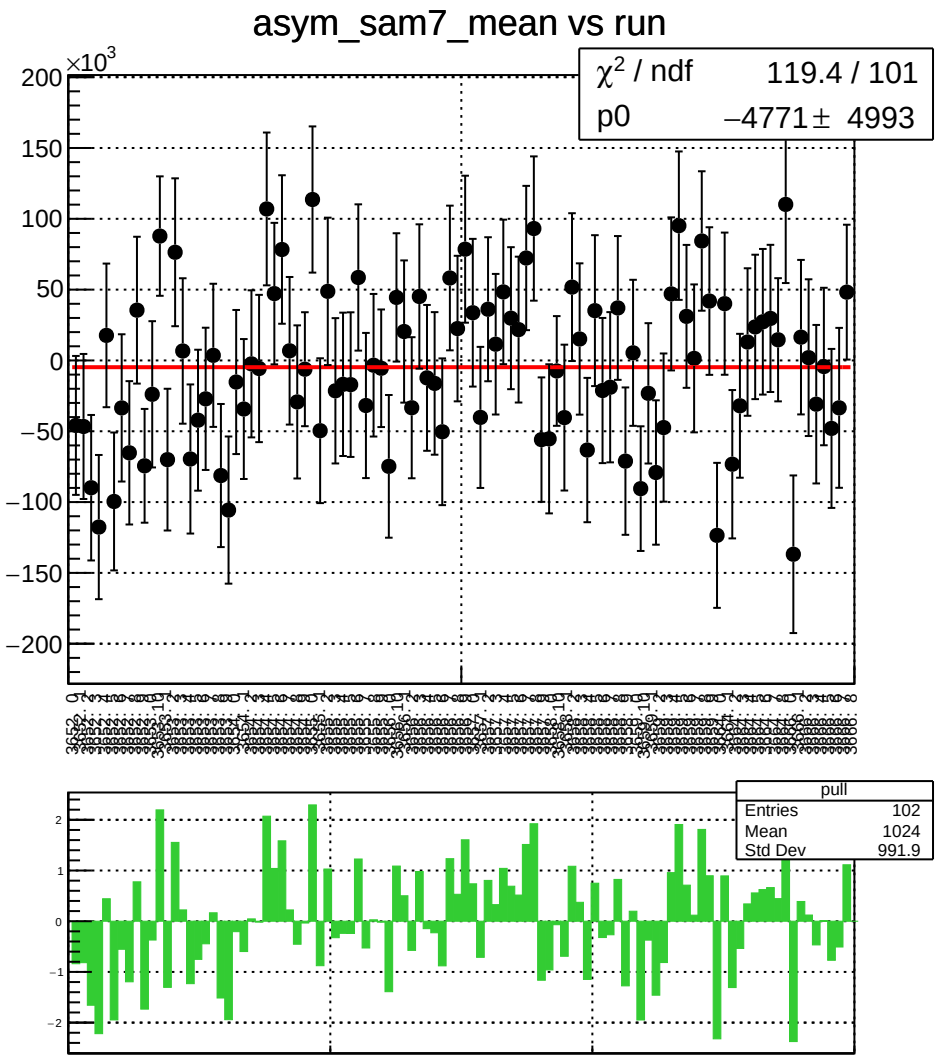

asym_sam5_mean vs run
χ² / ndf 99.75 / 101
p0 727.2 ± 1180
pull
Entries 102
Mean 192.4
Std Dev 88.55
pull1D
Entries 102
Mean 0.003889
Std Dev 0.9889

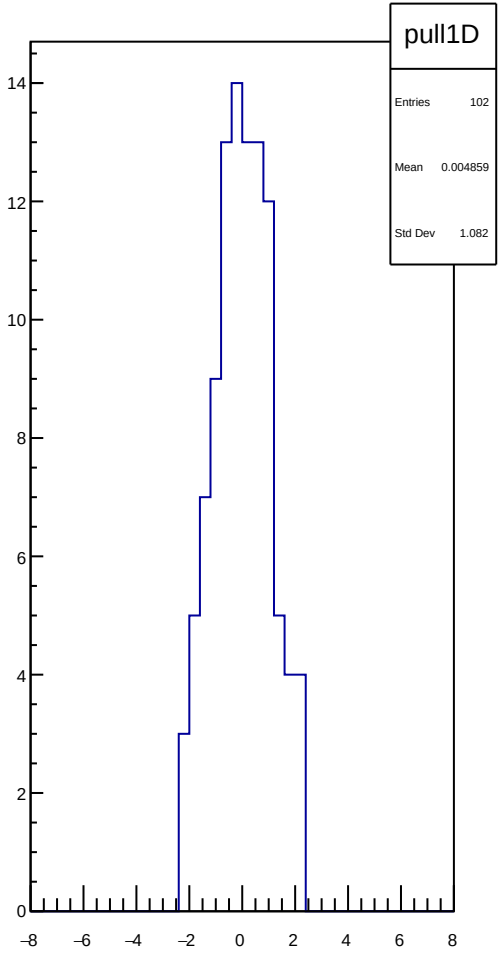

asym_sam5_rms vs run
χ^2 / ndf 9155 / 101
p0 1154 ± 0.8344
1350
1300
1250
1200
1150
1100
1050
1000

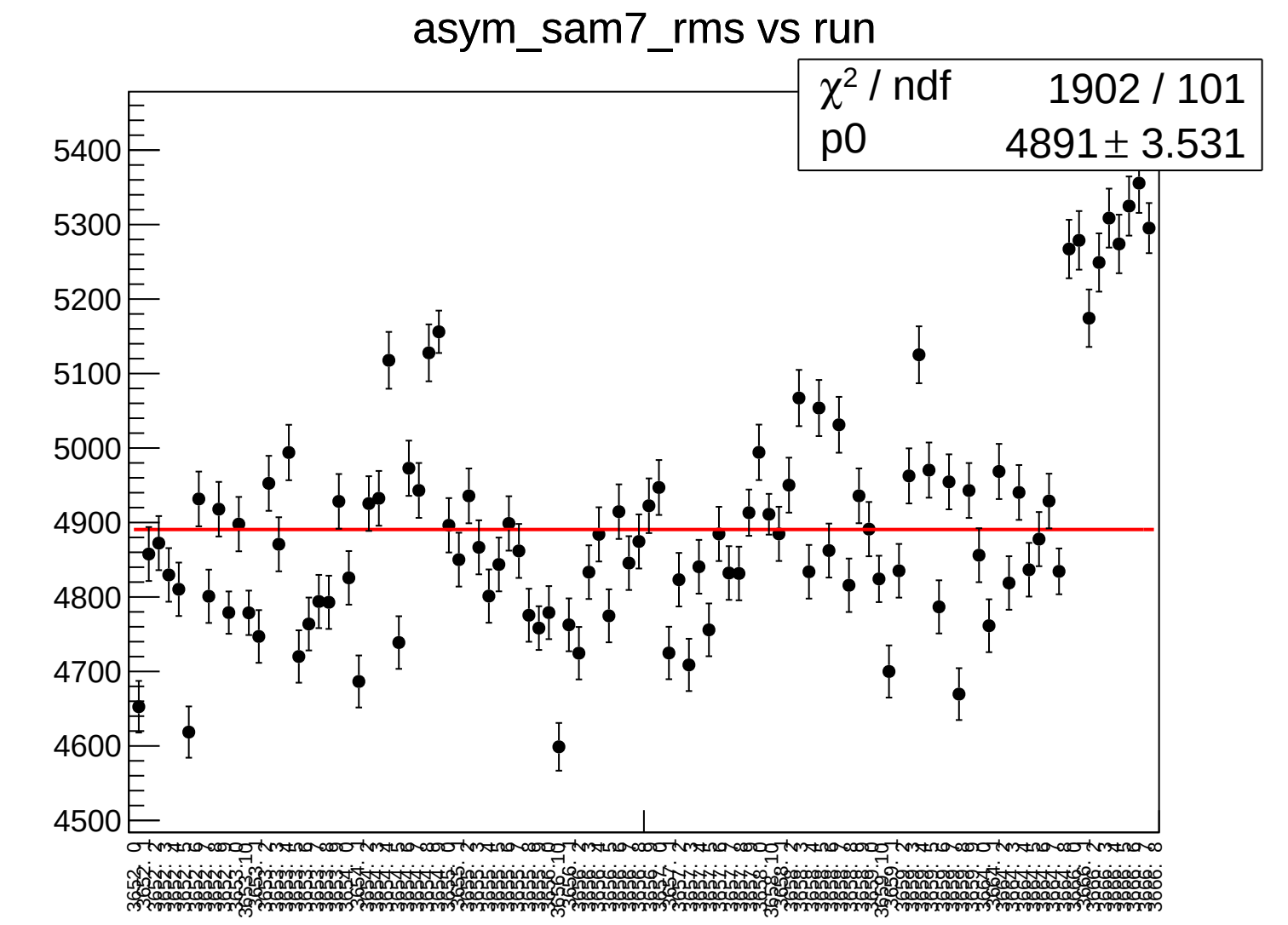

asym_sam6_mean vs run
×10^3
χ^2 / ndf 131.6 / 101
p0 −3054 ± 4395
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 2457
Std Dev 2425
2
1
0
−1
−2

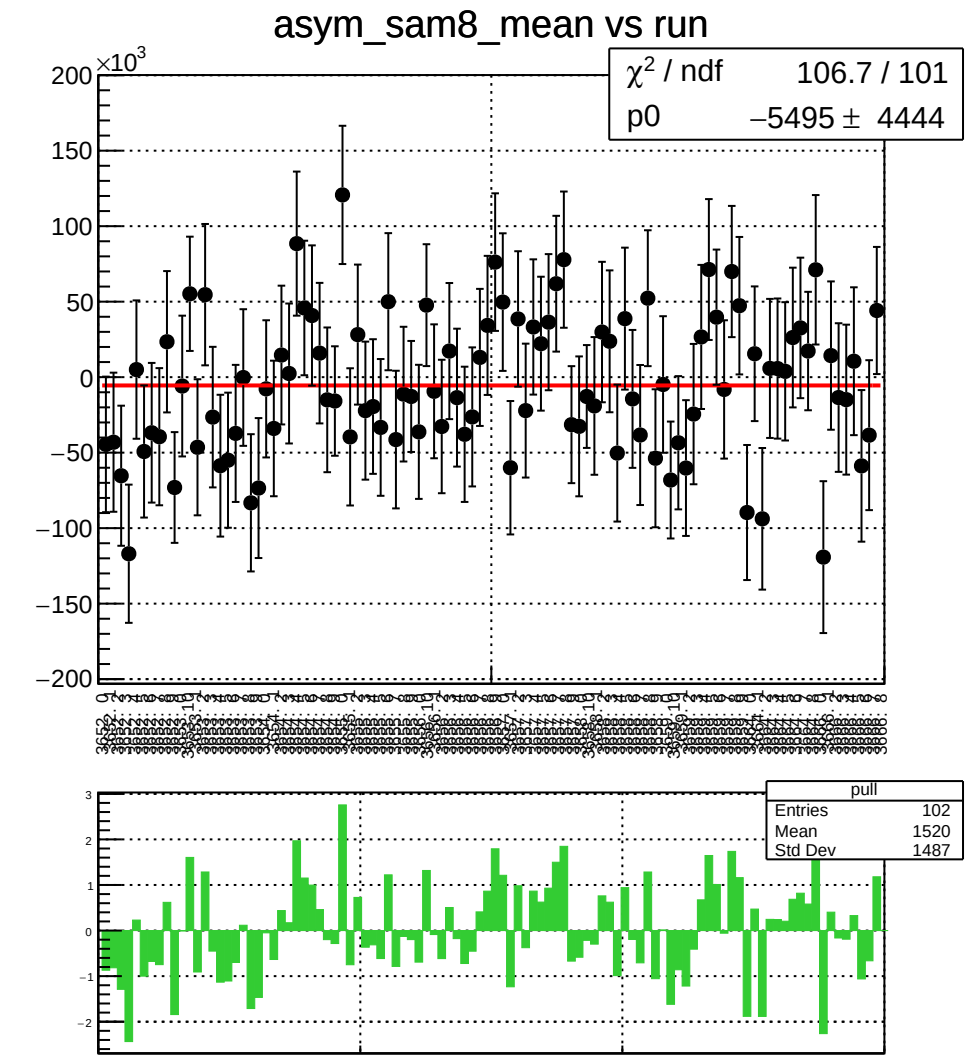

pull1D
Entries 102
Mean 0.001948
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

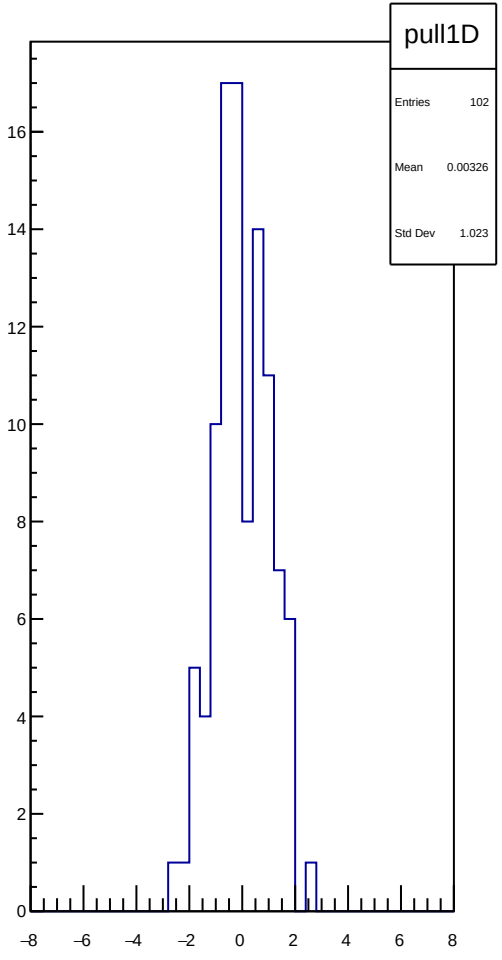

asym_sam6_rms vs run
χ² / ndf 1136 / 101
p0 4305 ± 3.108
4700
4600
4500
4400
4300
4200
4100

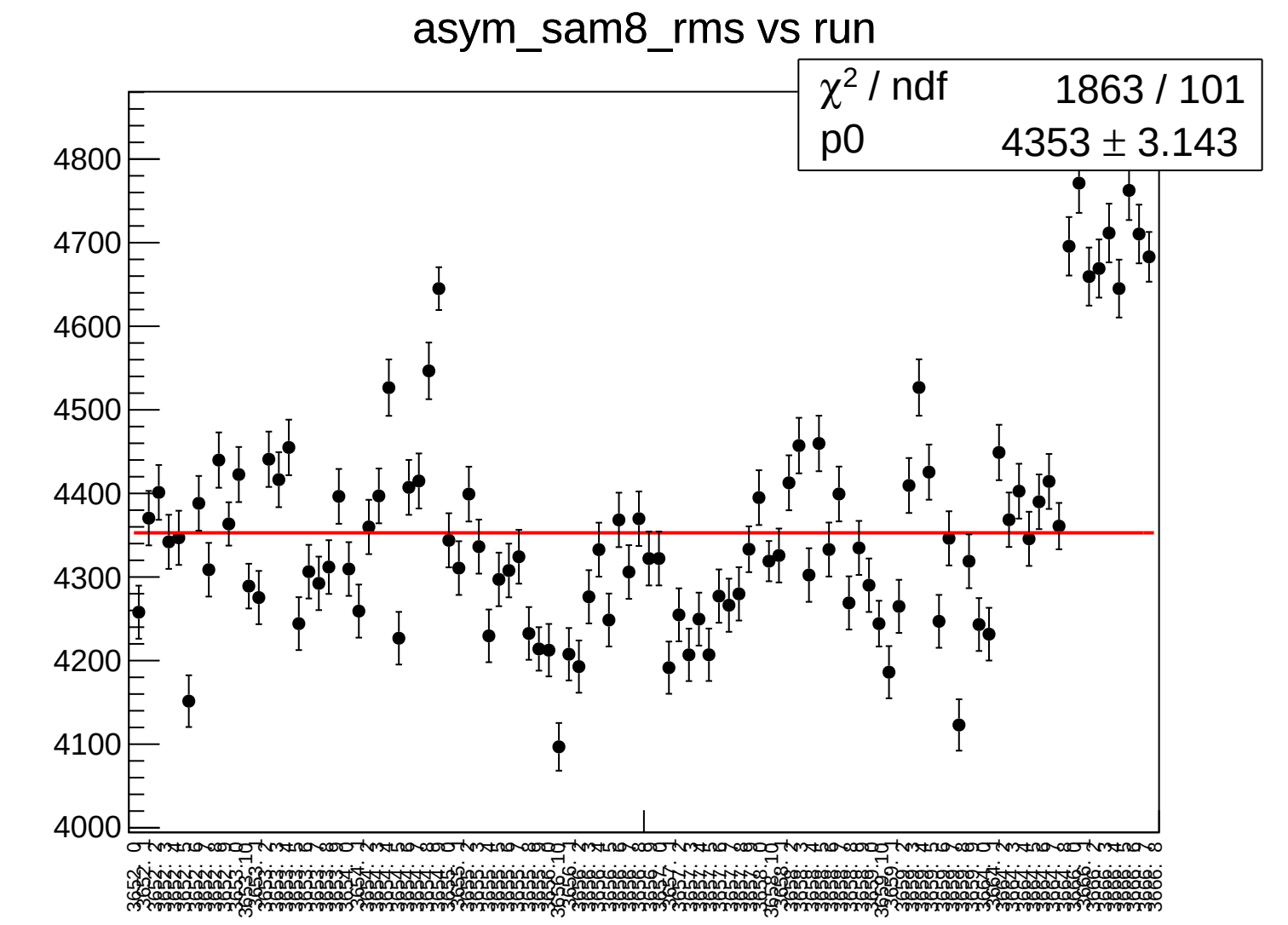

asym_sam7_mean vs run
×10^3
χ² / ndf 119.4 / 101
p0 −4771 ± 4993
pull
Entries 102
Mean 1024
Std Dev 991.9

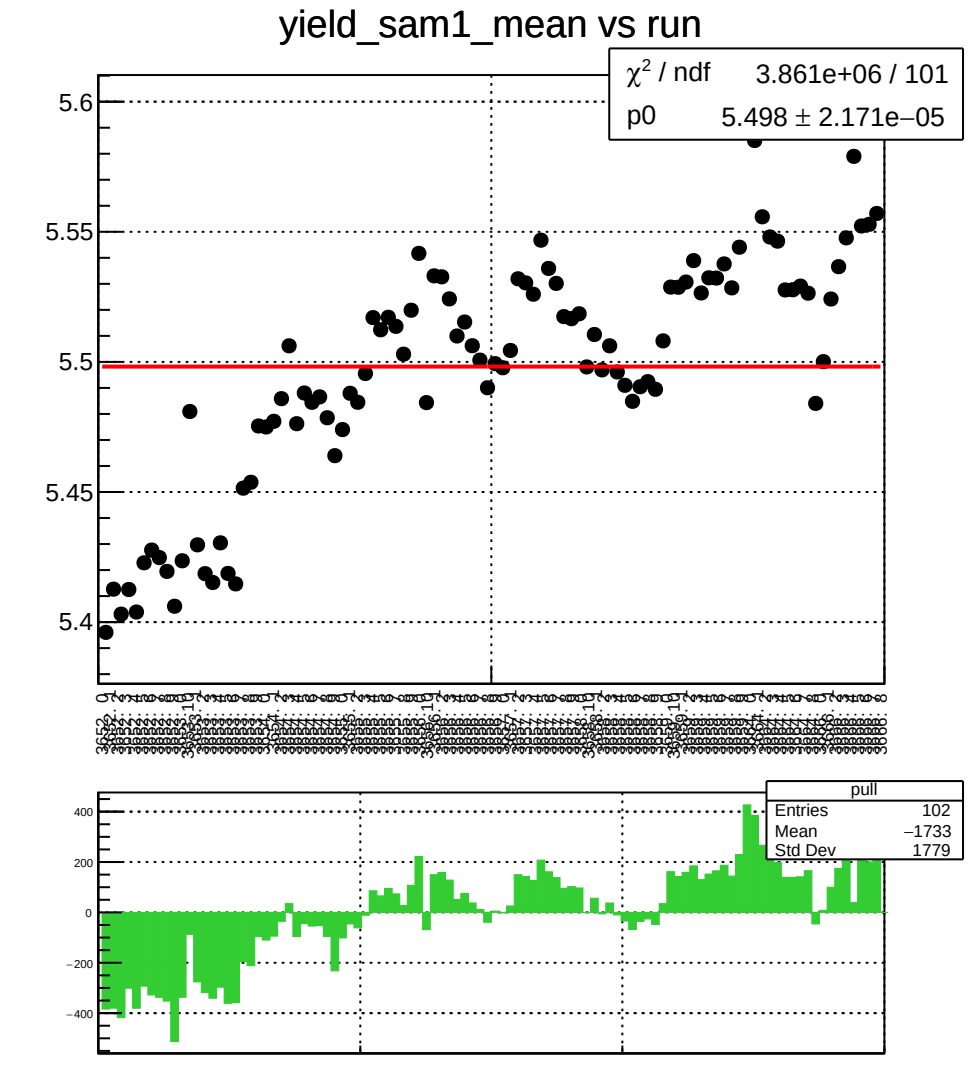

pull1D
Entries 102
Mean 0.004859
Std Dev 1.082

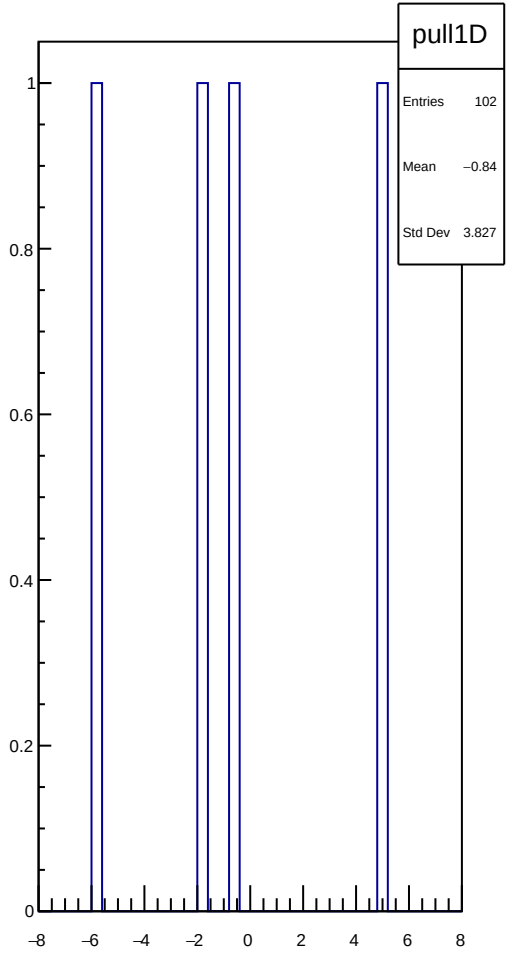

asym_sam7_rms vs run
χ² / ndf 1902 / 101
p0 4891 ± 3.531
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500

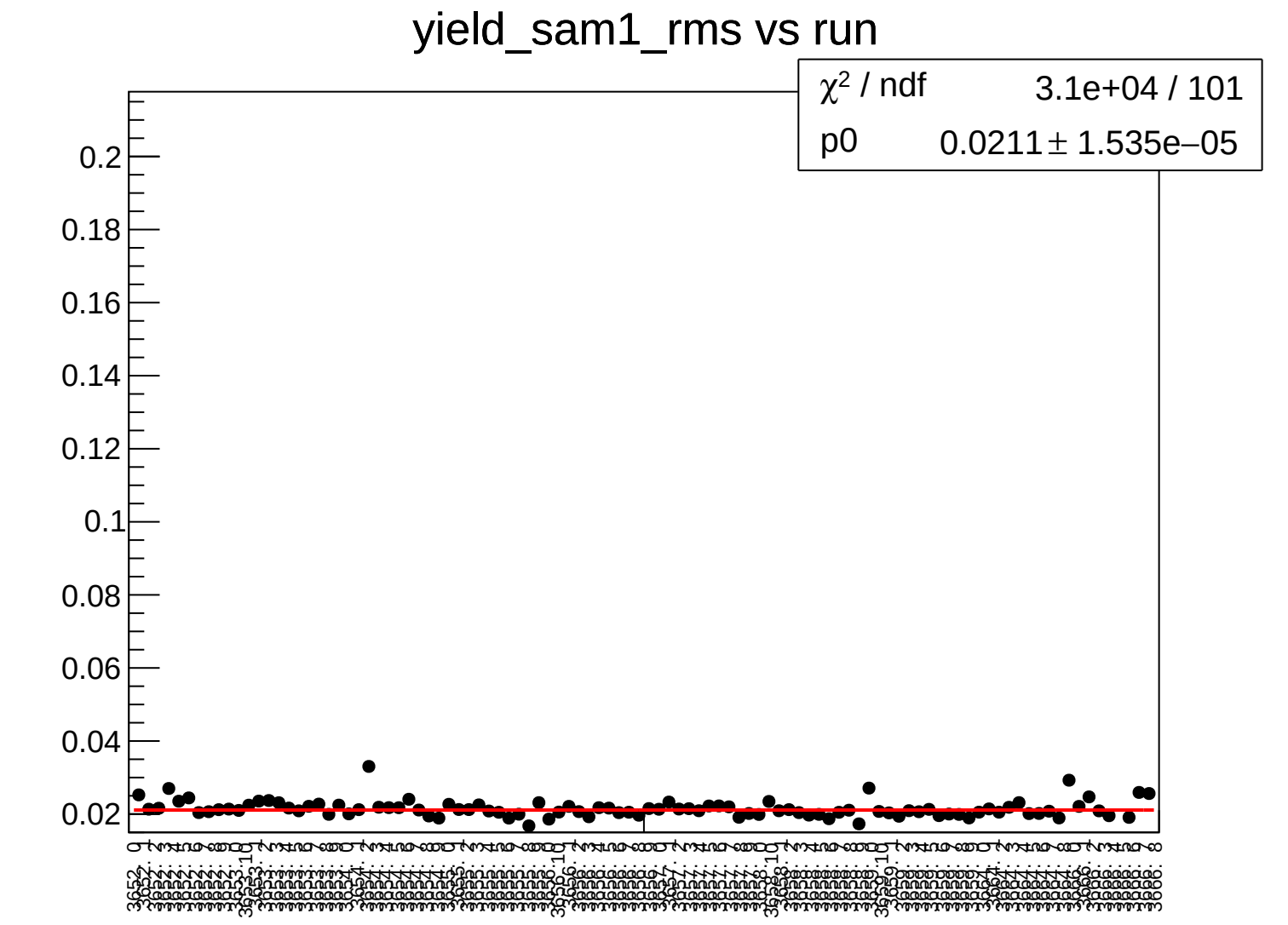

asym_sam8_mean vs run
χ² / ndf 106.7 / 101
p0 −5495 ± 4444
×10³
200
150
100
50
0
−50
−100
−150
−200
pull
Entries 102
Mean 1520
Std Dev 1487
3
2
1
0
−1
−2

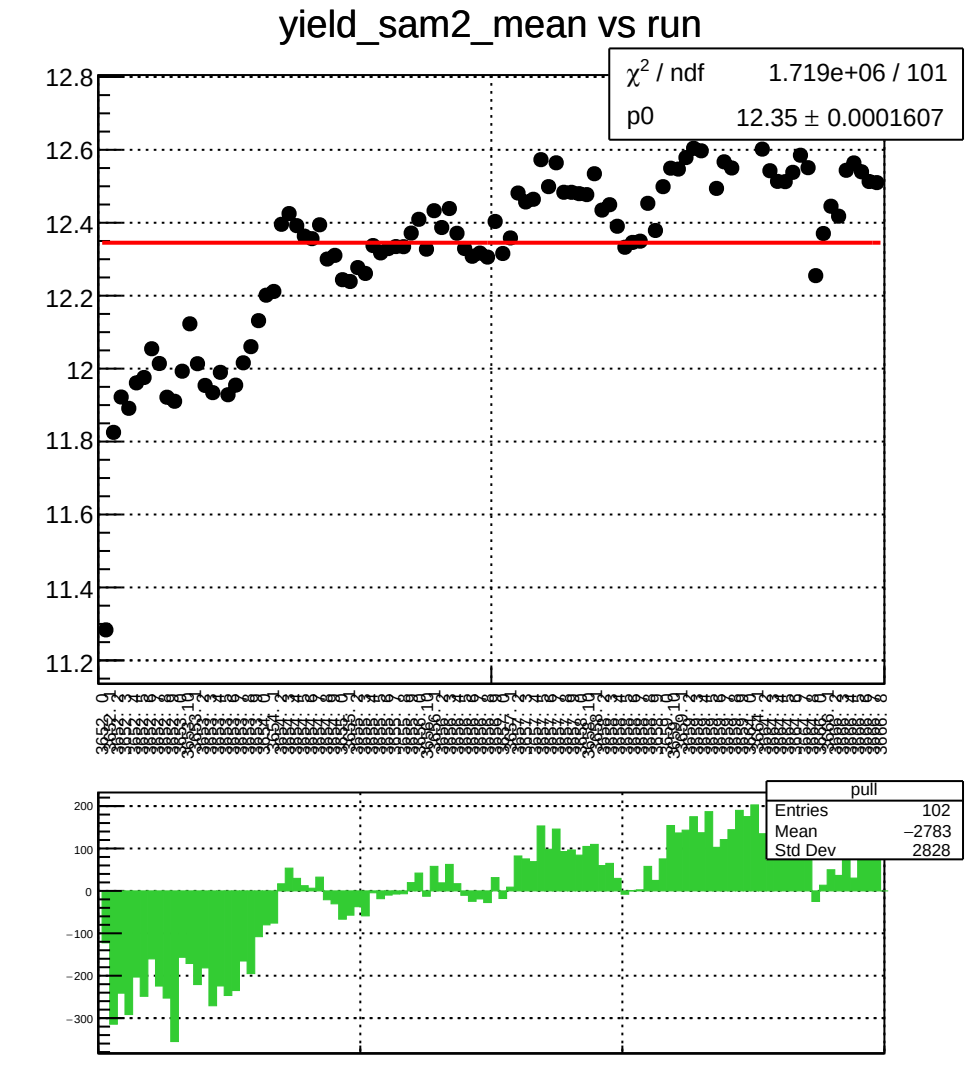

pull1D
Entries 102
Mean 0.00326
Std Dev 1.023
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

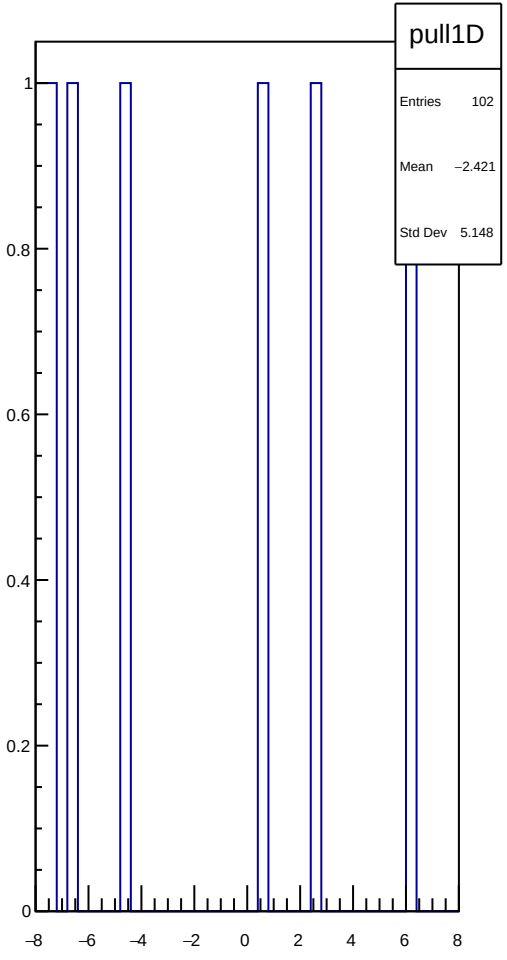

asym_sam8_rms vs run
χ^2 / ndf 1863 / 101
p0 4353 ± 3.143
4800
4700
4600
4500
4400
4300
4200
4100
4000

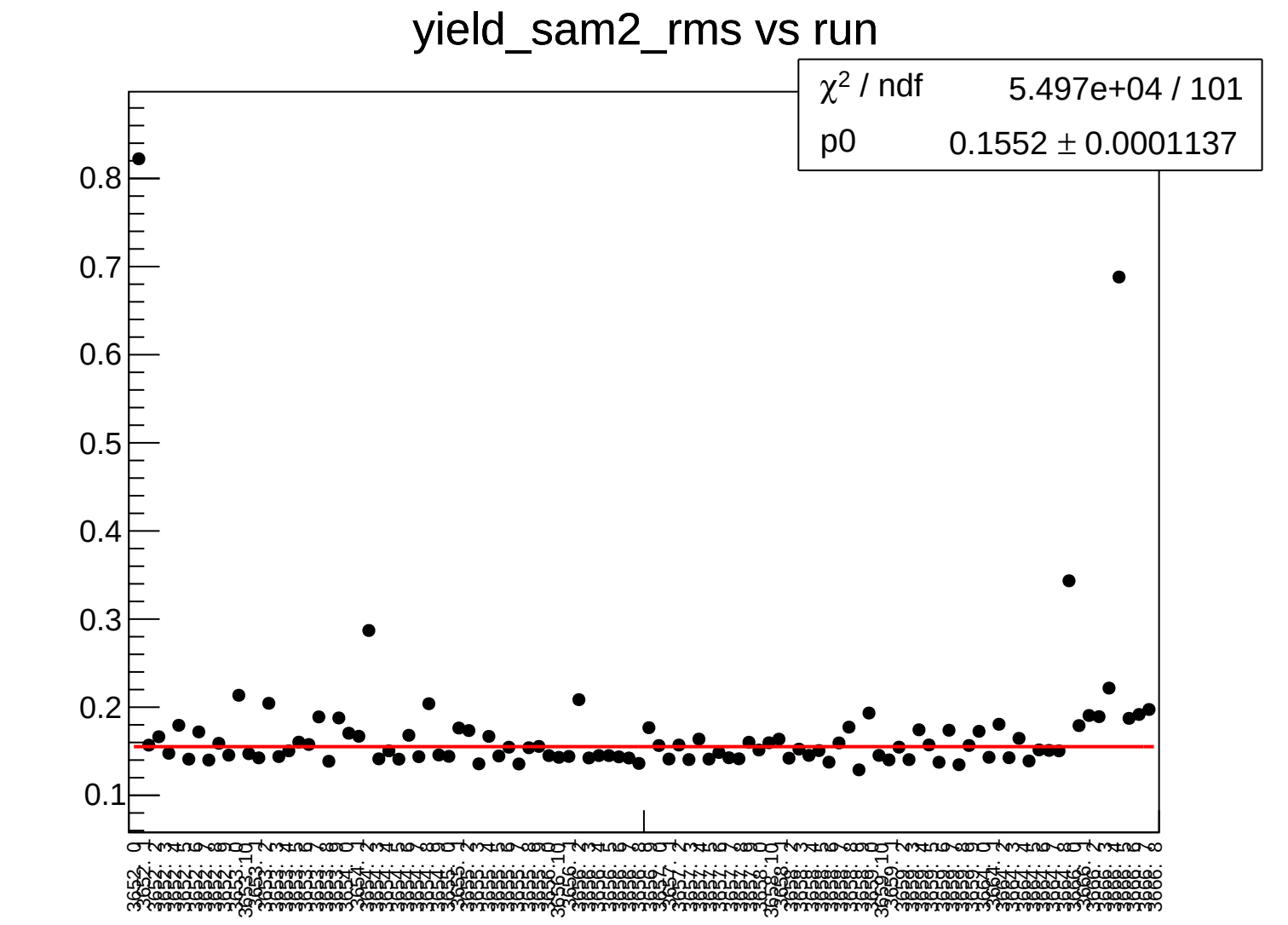

yield_sam1_mean vs run
χ² / ndf 3.861e+06 / 101
p0 5.498 ± 2.171e−05
5.6
5.55
5.5
5.45
5.4
pull
Entries 102
Mean −1733
Std Dev 1779
400
200
0
−200
−400

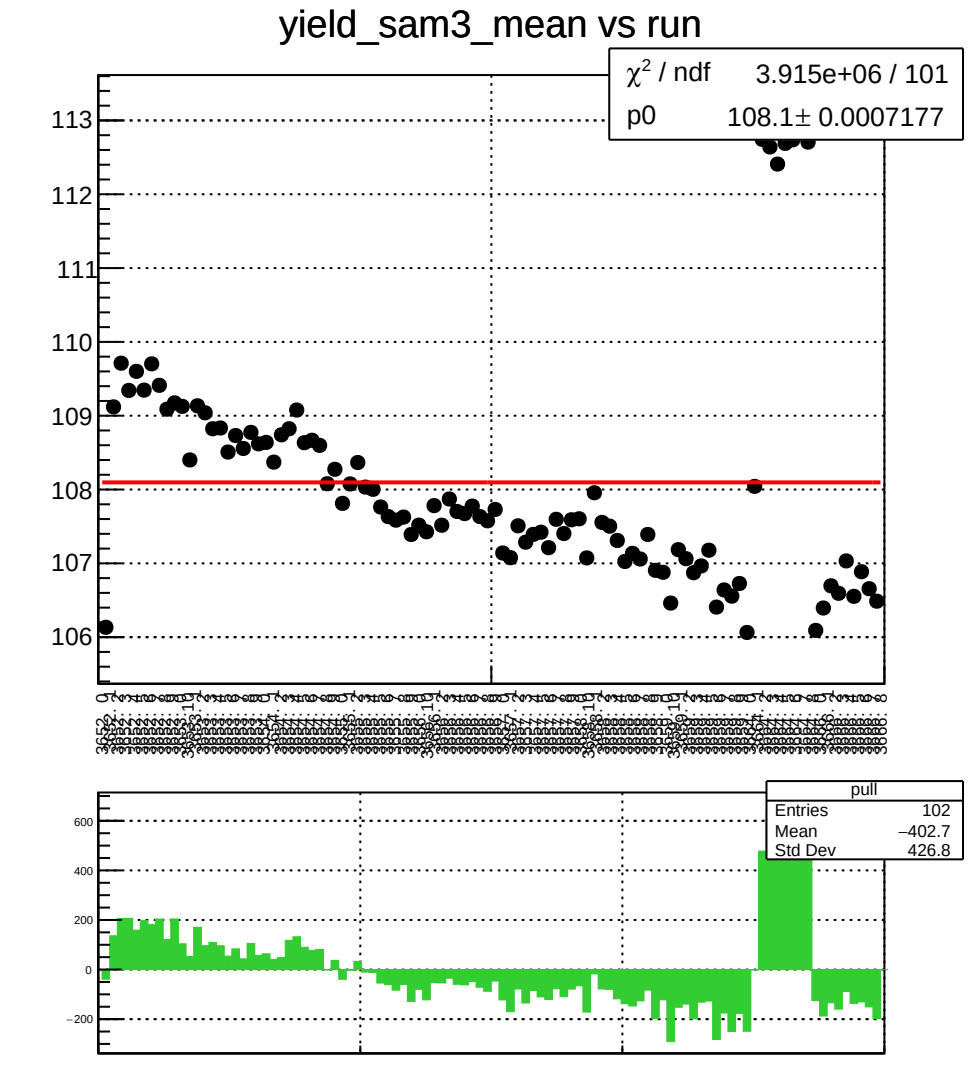

pull1D
Entries 102
Mean −0.84
Std Dev 3.827
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

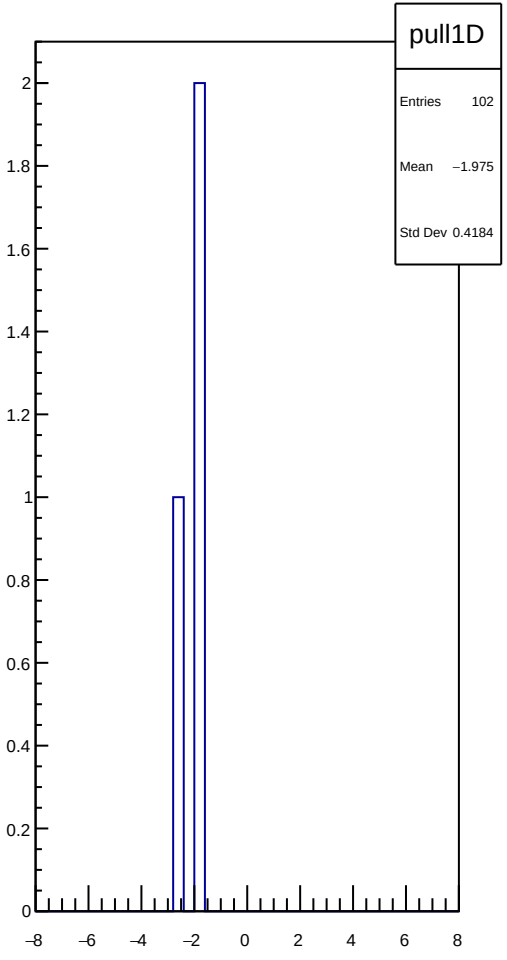

yield_sam1_rms vs run
χ² / ndf 3.1e+04 / 101
p0 0.0211 ± 1.535e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

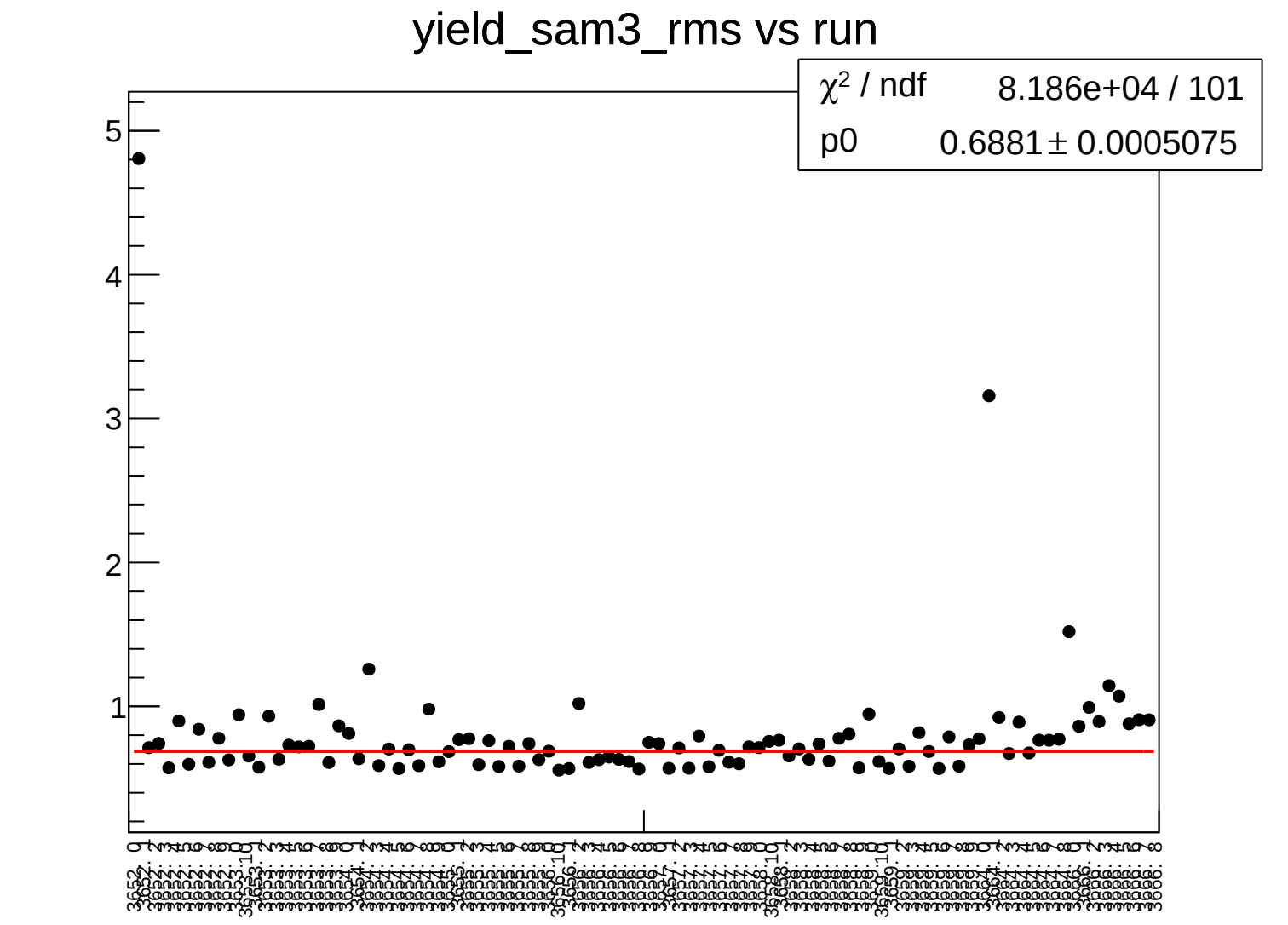

yield_sam2_mean vs run
χ² / ndf 1.719e+06 / 101
p0 12.35 ± 0.0001607
12.8
12.6
12.4
12.2
12
11.8
11.6
11.4
11.2
pull
Entries 102
Mean −2783
Std Dev 2828
200
100
0
−100
−200
−300

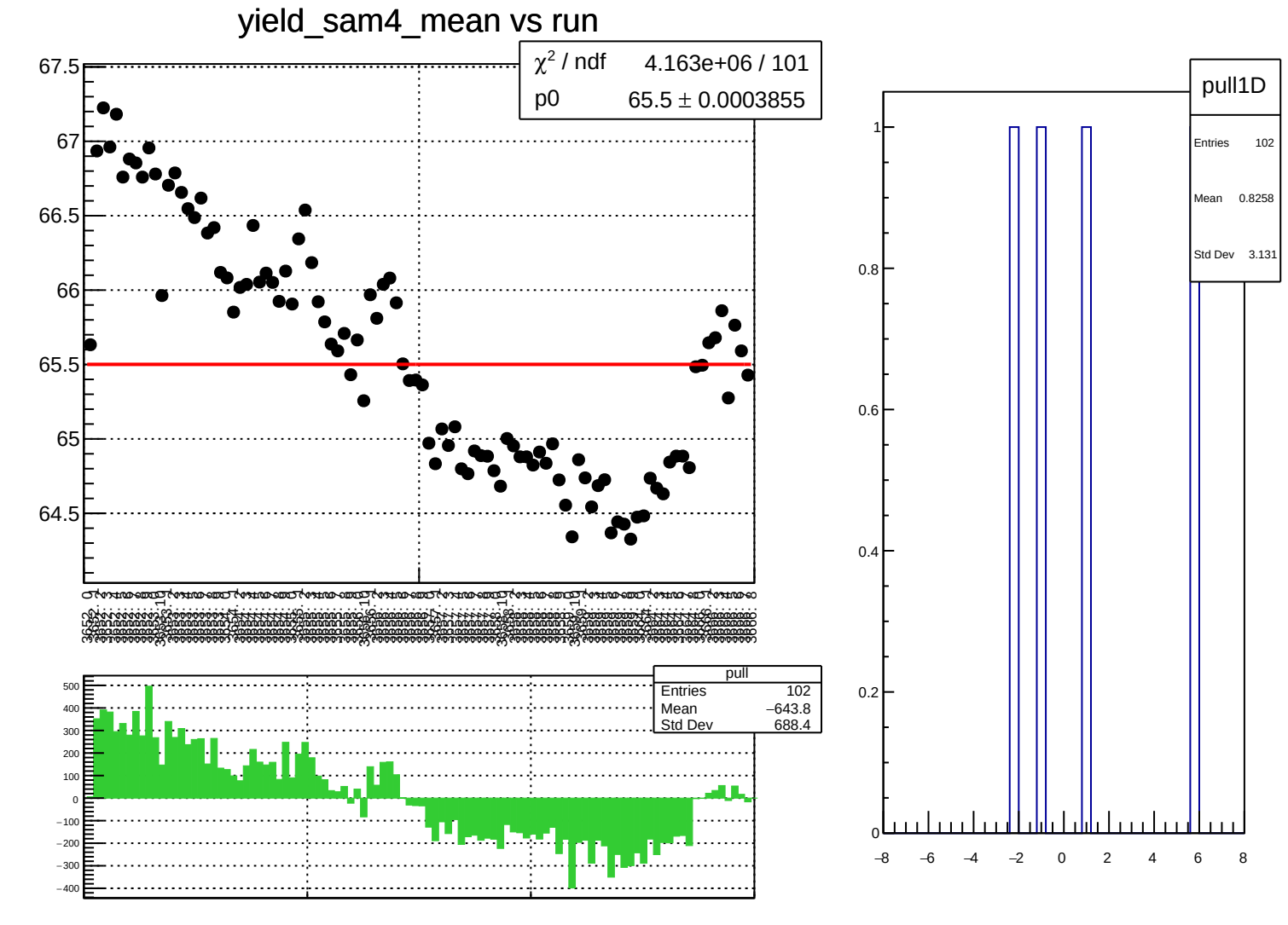

pull1D
Entries 102
Mean −2.421
Std Dev 5.148
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

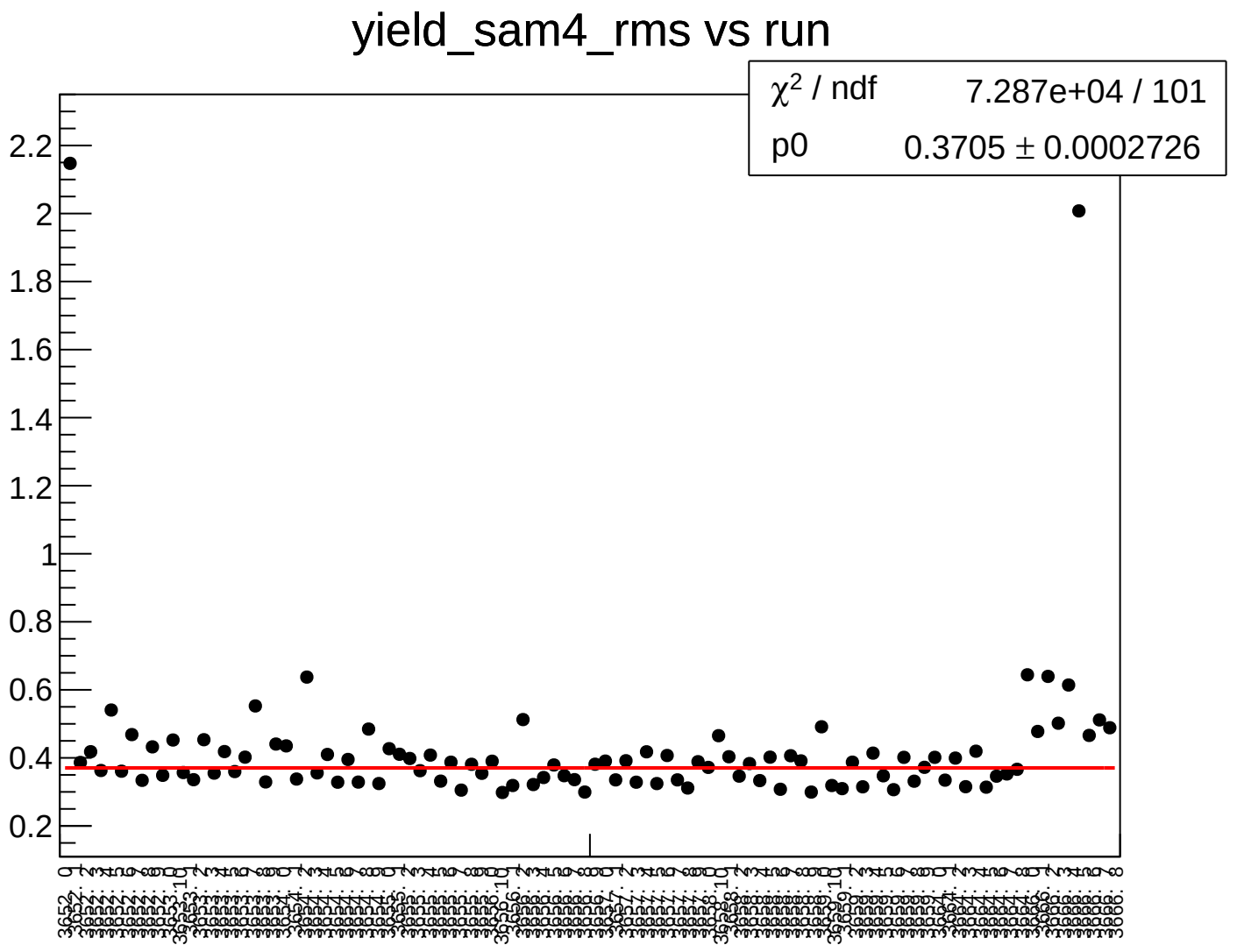

yield_sam2_rms vs run
χ² / ndf 5.497e+04 / 101
p0 0.1552 ± 0.0001137
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

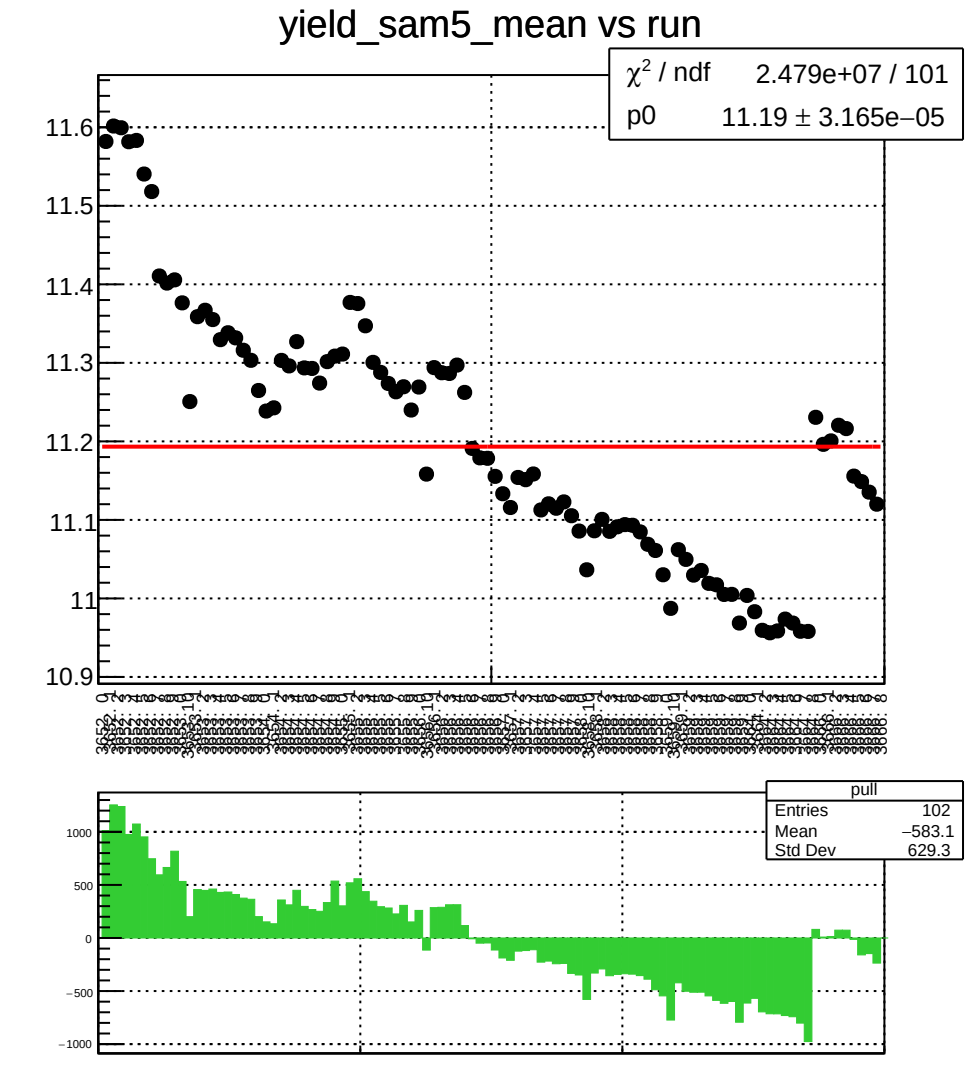

yield_sam3_mean vs run
χ² / ndf 3.915e+06 / 101
p0 108.1± 0.0007177
113
112
111
110
109
108
107
106
pull
Entries 102
Mean −402.7
Std Dev 426.8
600
400
200
0
−200

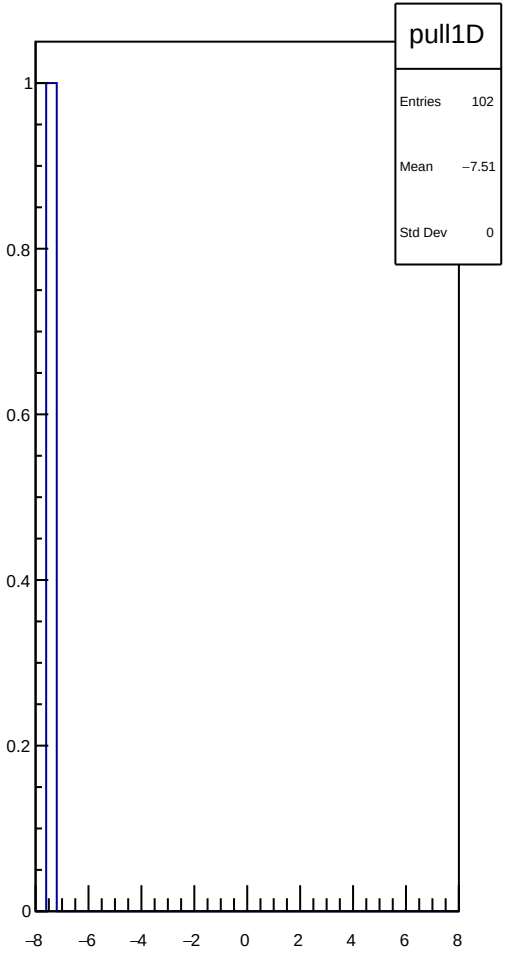

pull1D
Entries 102
Mean −1.975
Std Dev 0.4184
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

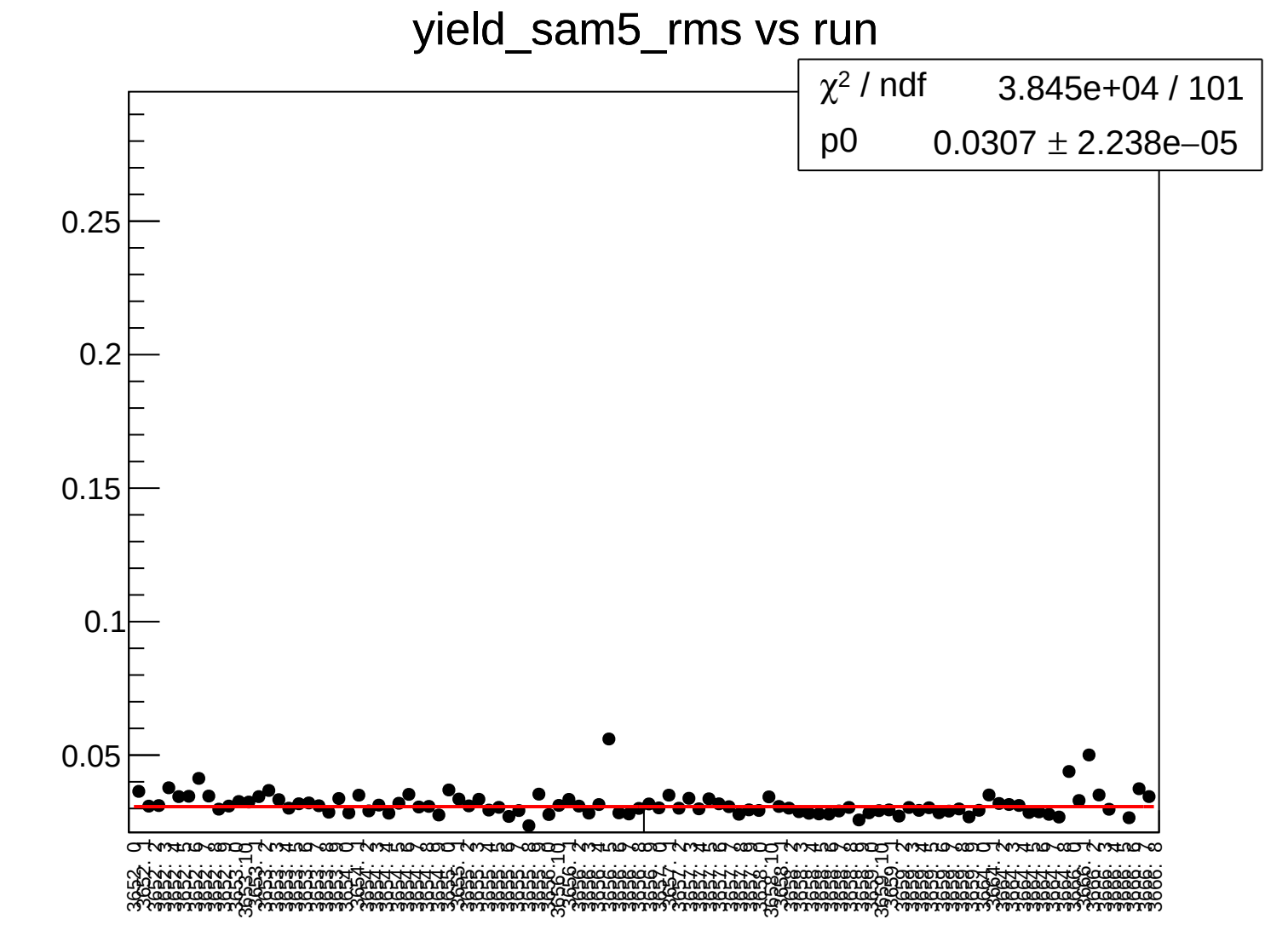

yield_sam3_rms vs run
χ^2 / ndf 8.186e+04 / 101
p0 0.6881 ± 0.0005075
5
4
3
2
1

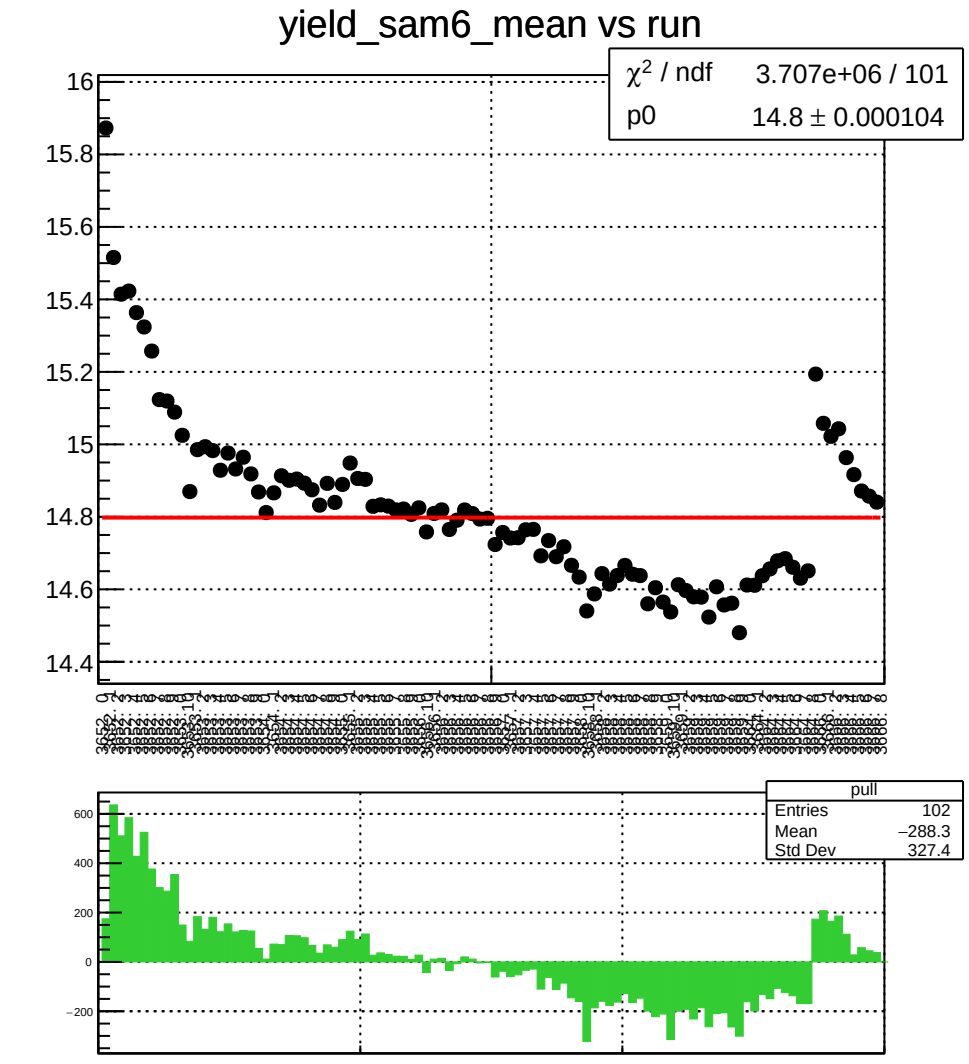

yield_sam4_mean vs run
χ² / ndf 4.163e+06 / 101
p0 65.5 ± 0.0003855
67.5
67
66.5
66
65.5
65
64.5
pull
Entries 102
Mean −643.8
Std Dev 688.4
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 102
Mean 0.8258
Std Dev 3.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

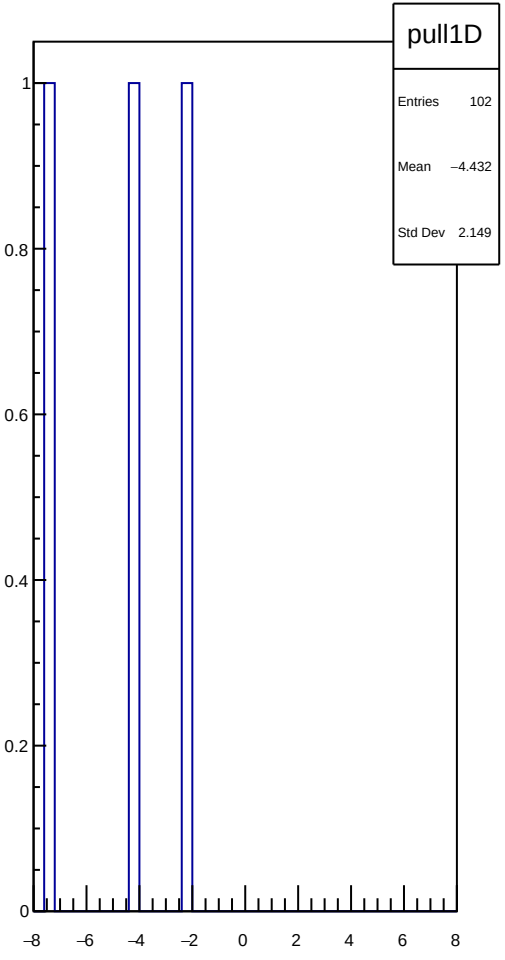

yield_sam4_rms vs run
χ^2 / ndf 7.287e+04 / 101
p0 0.3705 ± 0.0002726
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

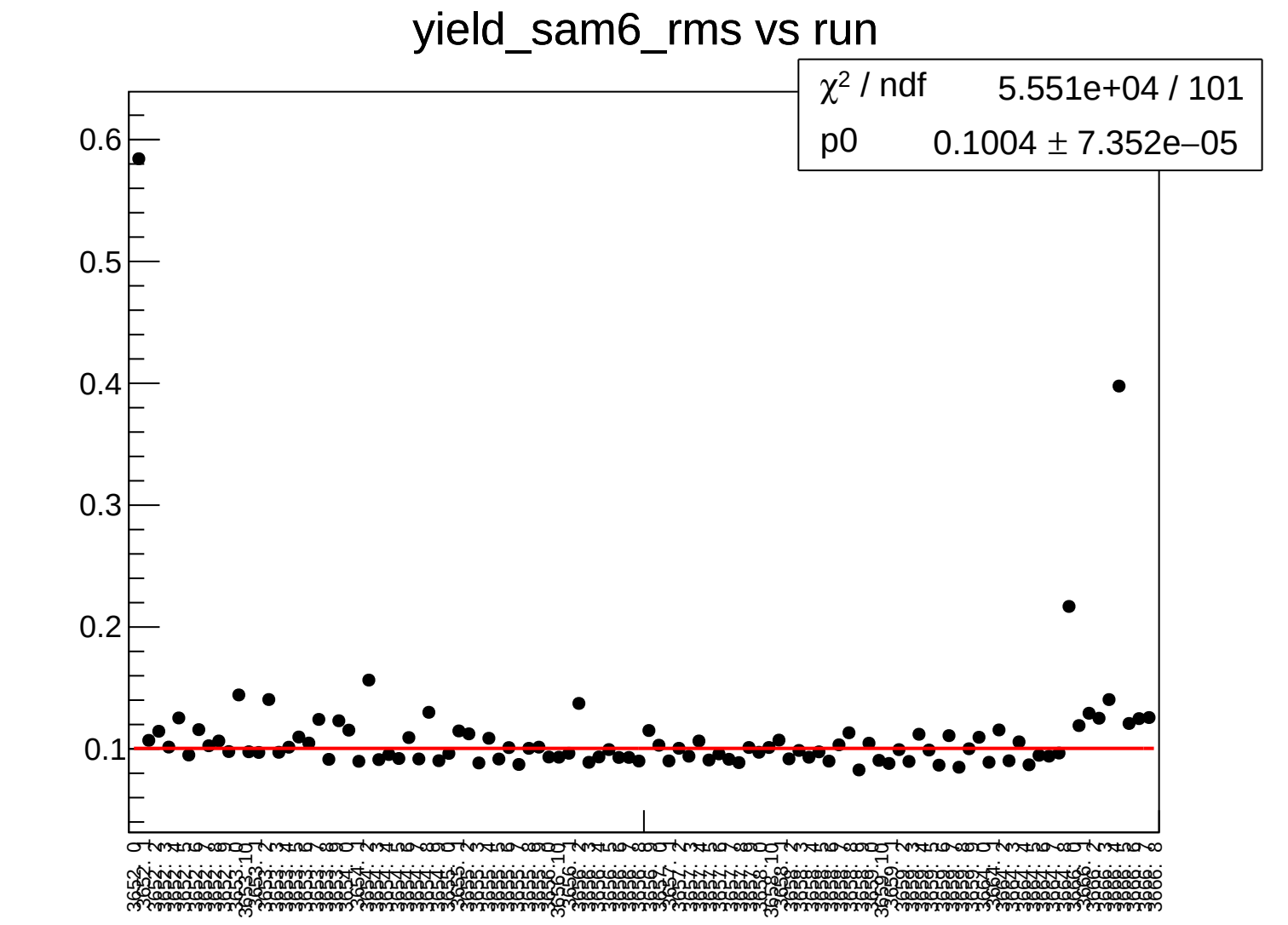

yield_sam5_mean vs run
χ² / ndf 2.479e+07 / 101
p0 11.19 ± 3.165e−05
11.6
11.5
11.4
11.3
11.2
11.1
11
10.9
pull
Entries 102
Mean −583.1
Std Dev 629.3
1000
500
0
−500
−1000

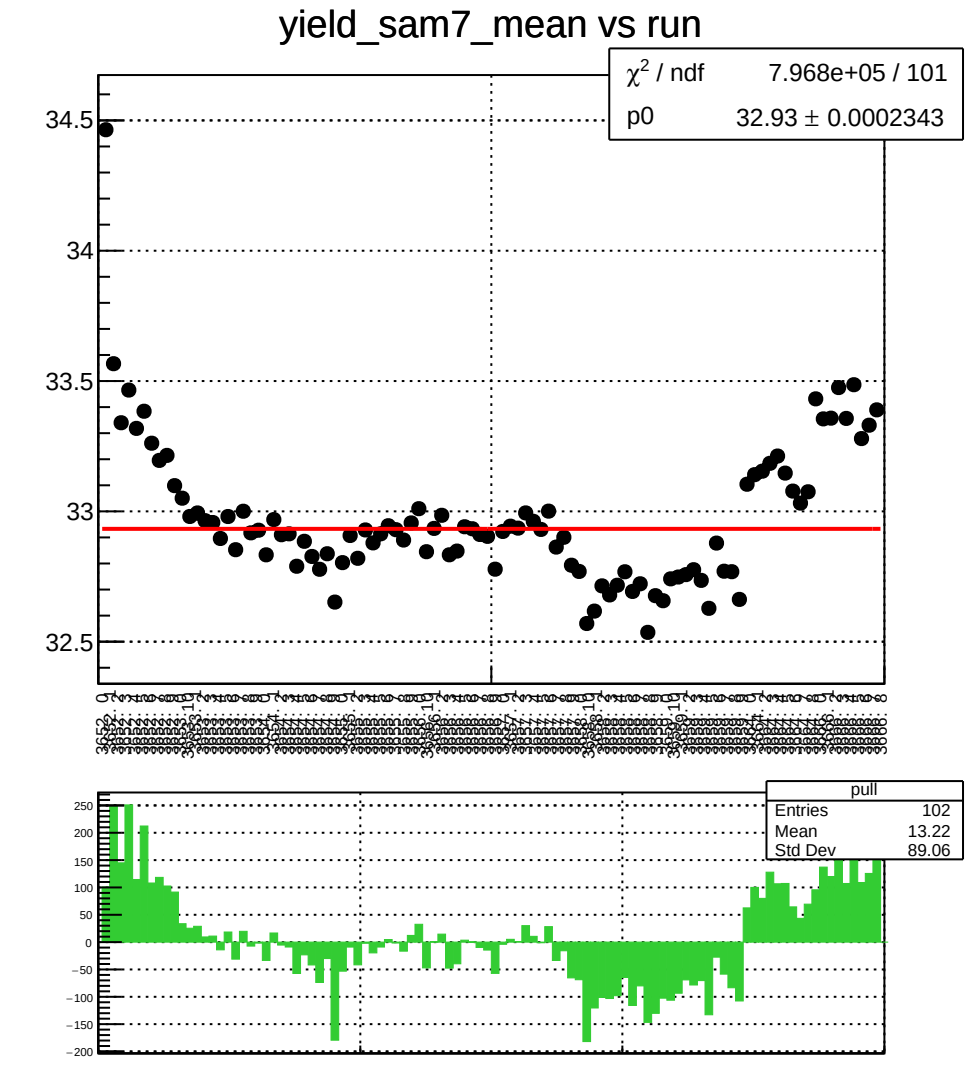

pull1D
Entries 102
Mean −7.51
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

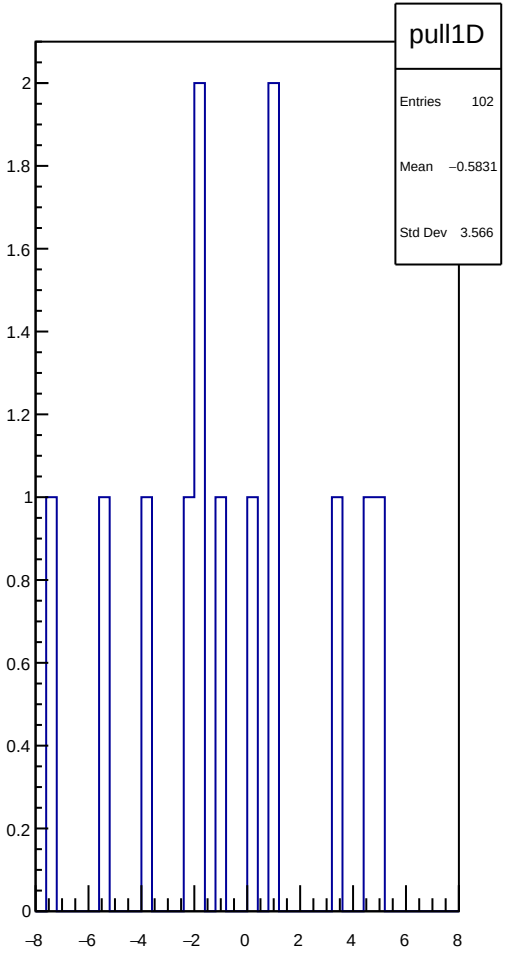

yield_sam5_rms vs run
χ² / ndf 3.845e+04 / 101
p0 0.0307 ± 2.238e−05
0.25
0.2
0.15
0.1
0.05

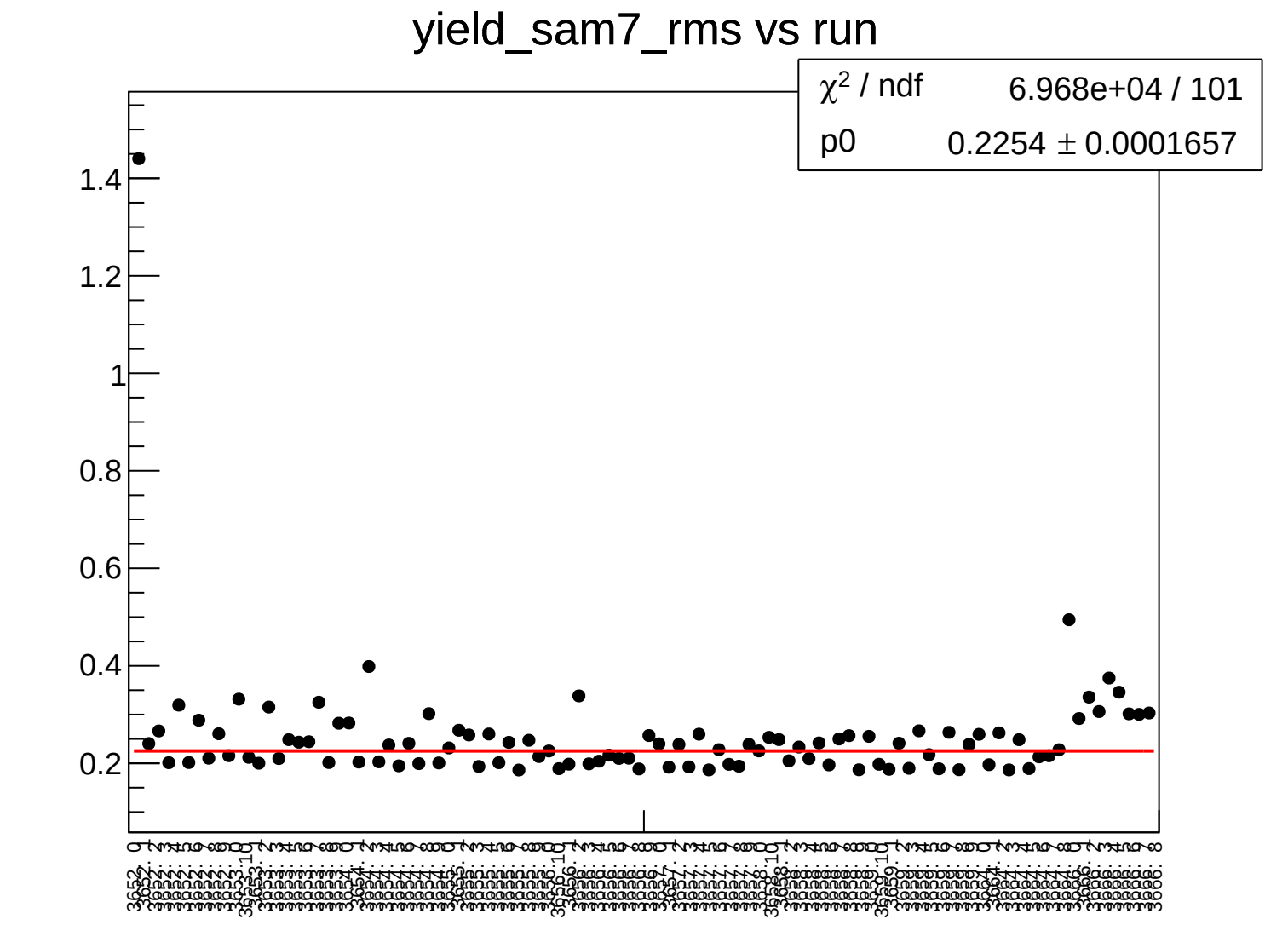

yield_sam6_mean vs run
χ² / ndf 3.707e+06 / 101
p0 14.8 ± 0.000104
pull
Entries 102
Mean −288.3
Std Dev 327.4

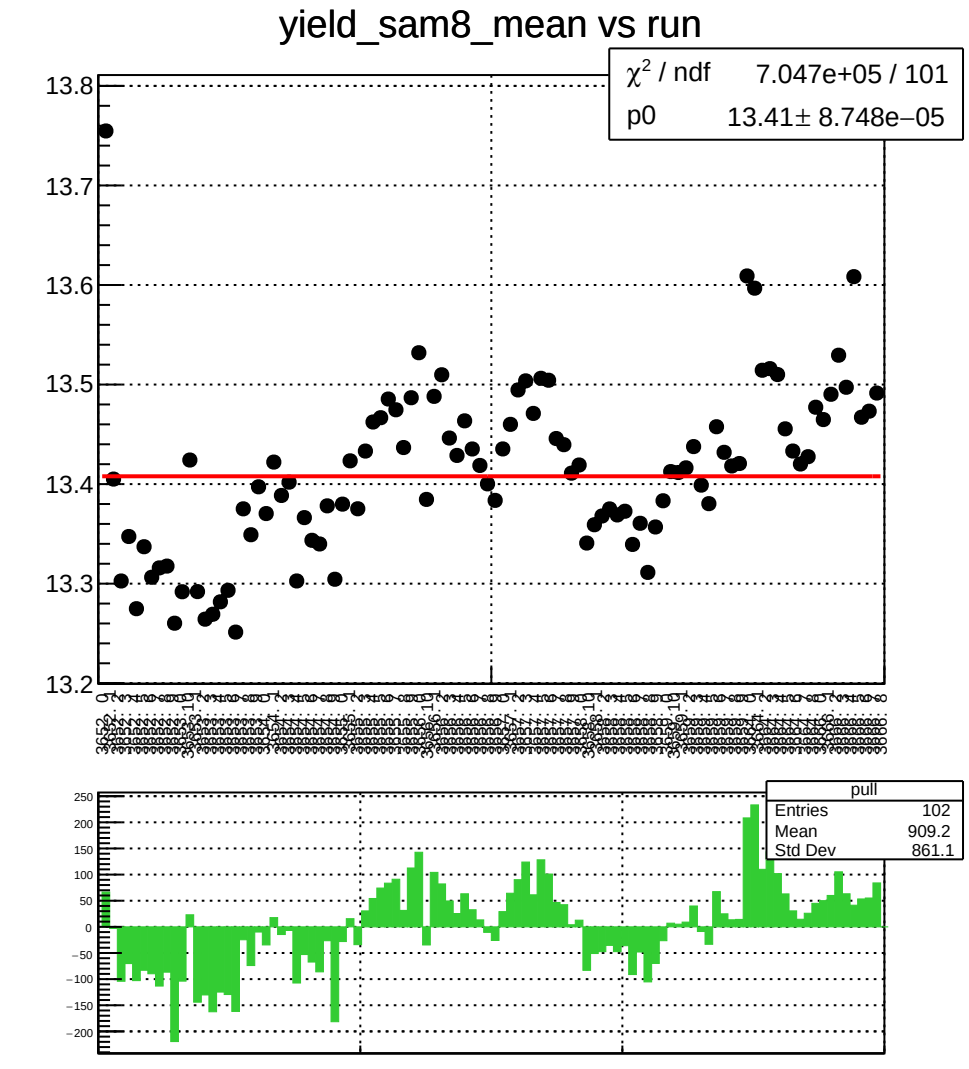

pull1D
Entries 102
Mean −4.432
Std Dev 2.149

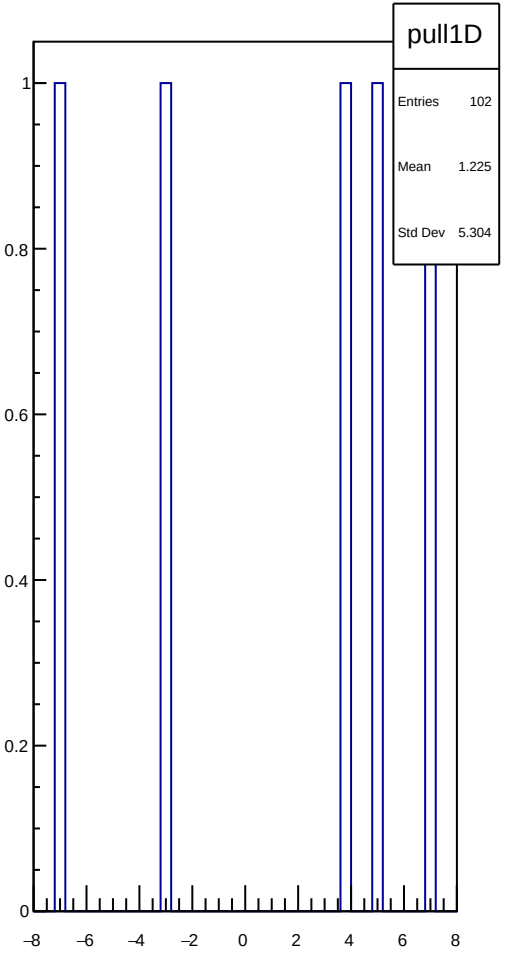

yield_sam6_rms vs run
χ² / ndf 5.551e+04 / 101
p0 0.1004 ± 7.352e−05
0.6
0.5
0.4
0.3
0.2
0.1

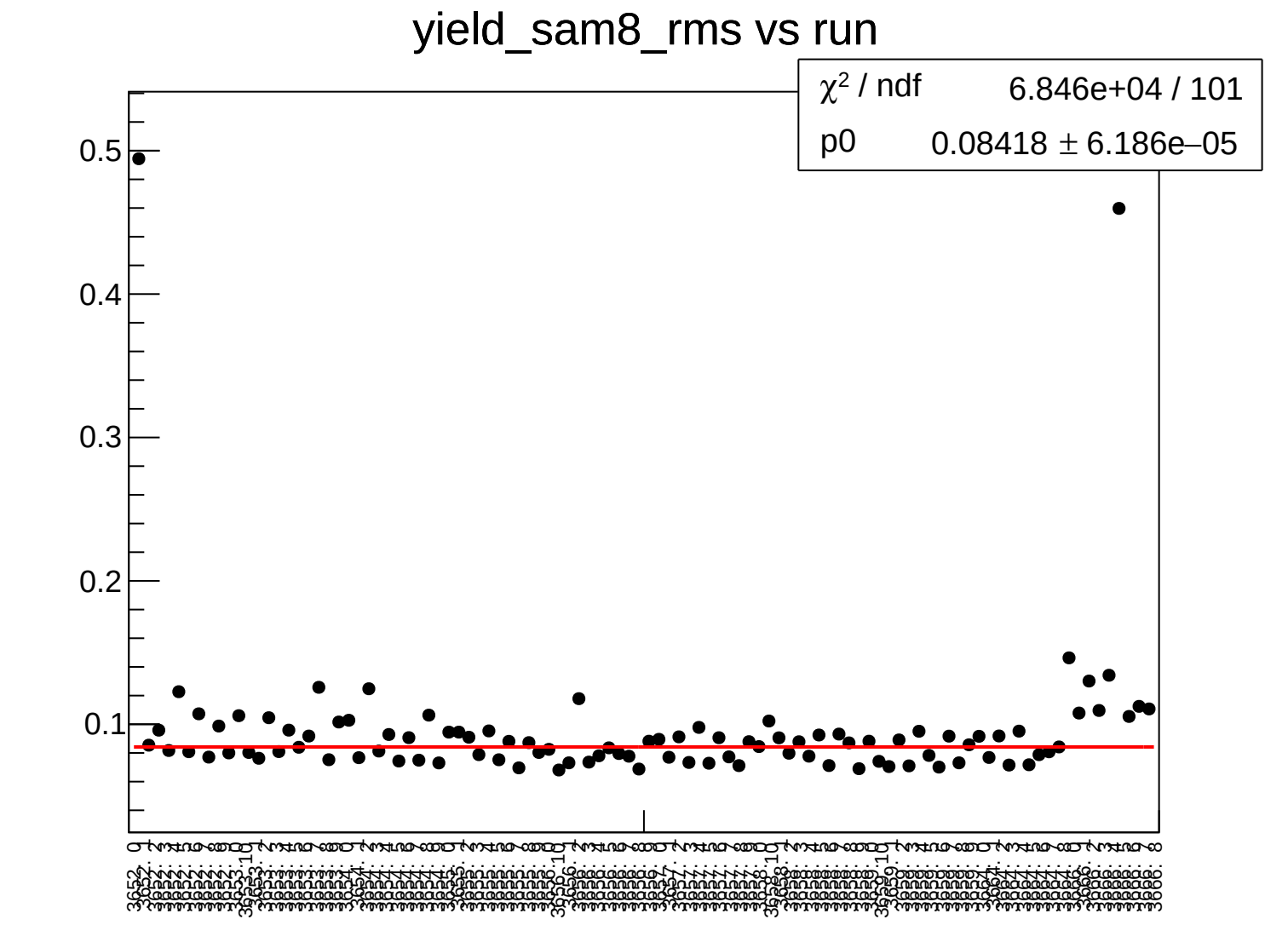

yield_sam7_mean vs run
χ² / ndf 7.968e+05 / 101
p0 32.93 ± 0.0002343
34.5
34
33.5
33
32.5
pull
Entries 102
Mean 13.22
Std Dev 89.06
250
200
150
100
50
0
−50
−100
−150
−200

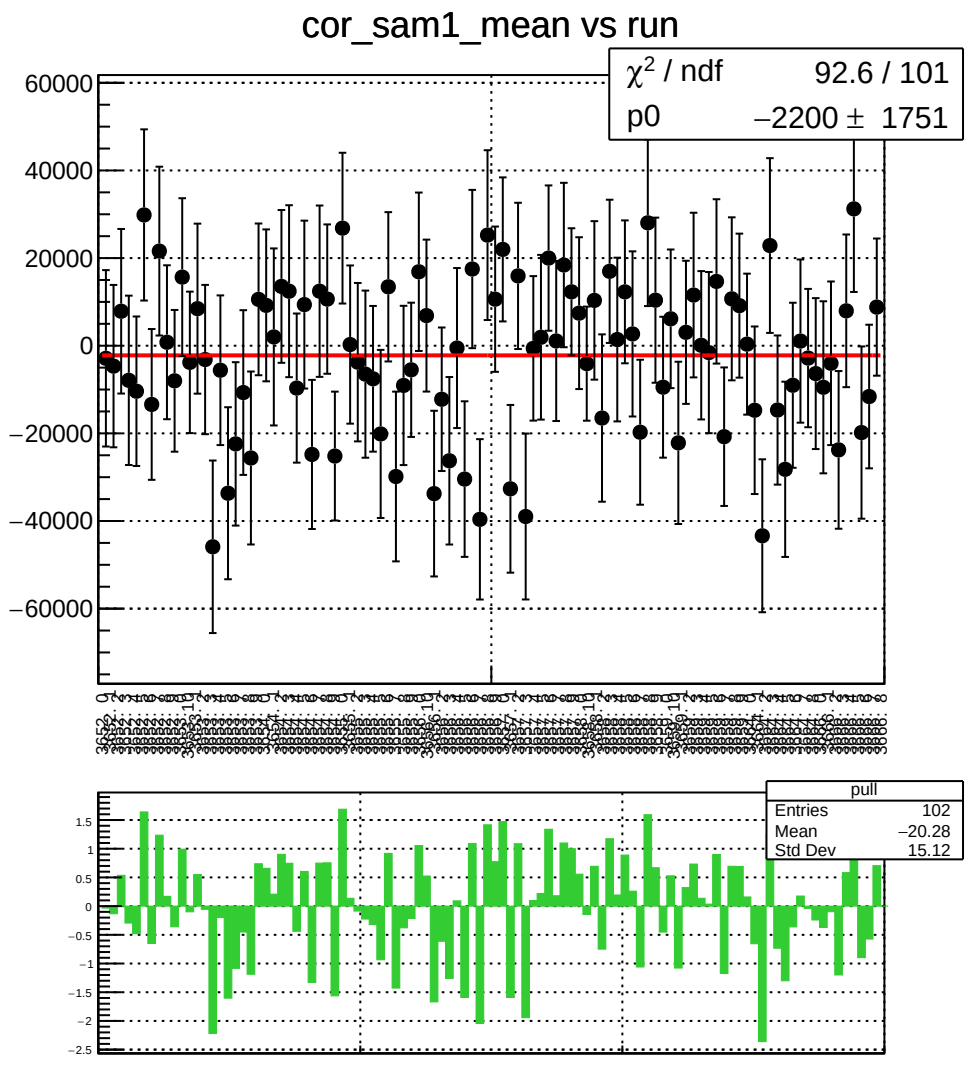

pull1D
Entries 102
Mean −0.5831
Std Dev 3.566
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

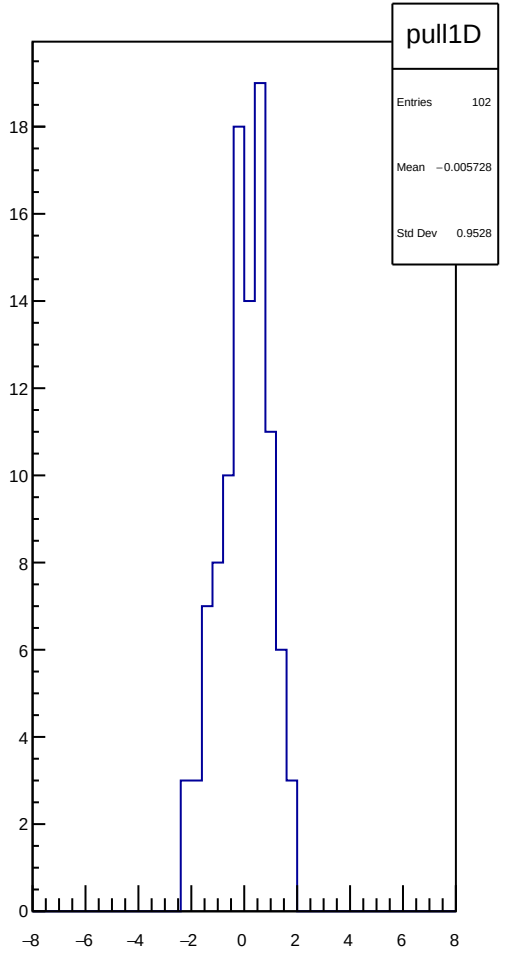

yield_sam7_rms vs run
χ² / ndf 6.968e+04 / 101
p0 0.2254 ± 0.0001657
1.4
1.2
1
0.8
0.6
0.4
0.2

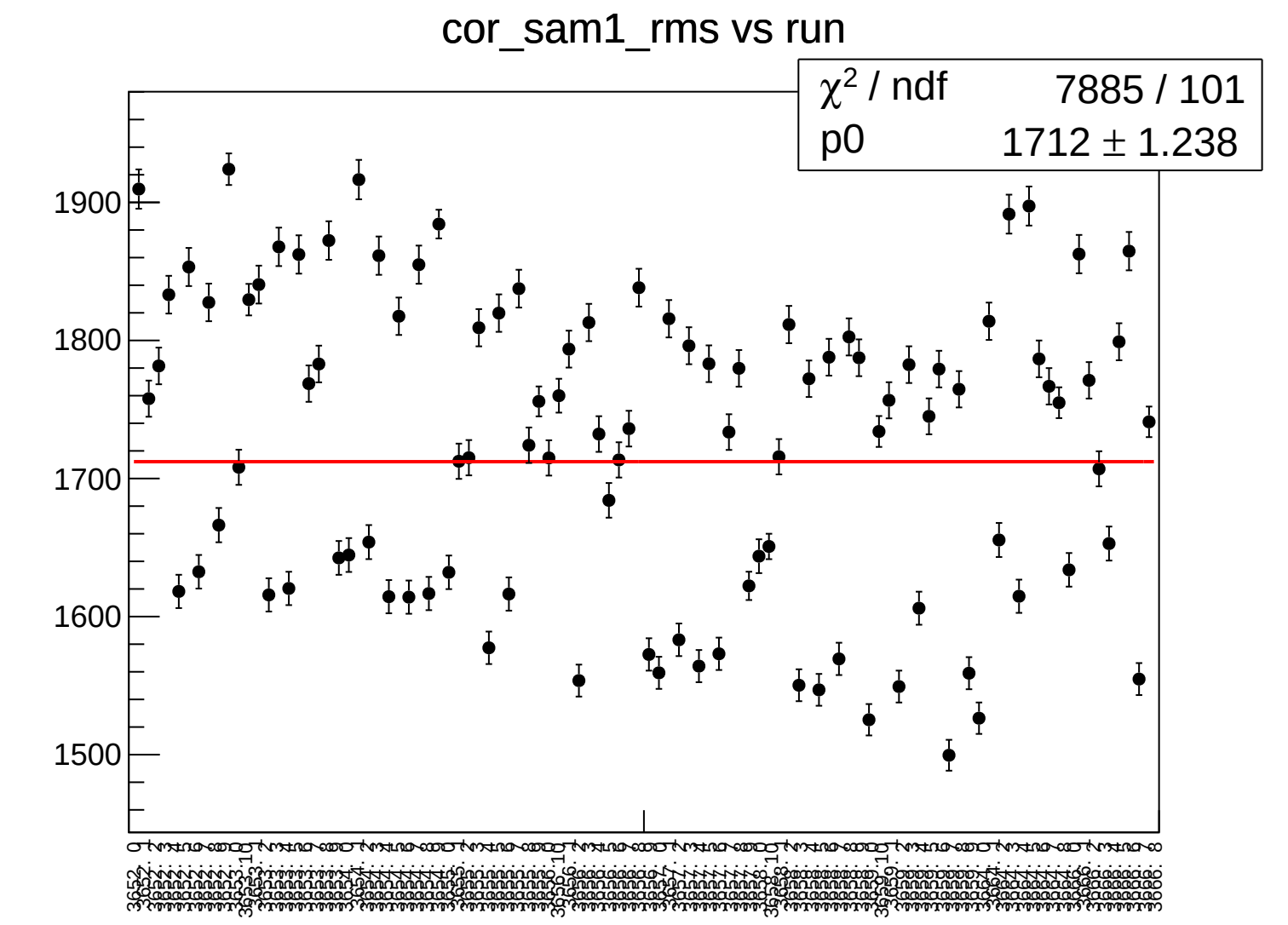

yield_sam8_mean vs run
χ² / ndf 7.047e+05 / 101
p0 13.41± 8.748e−05
13.8
13.7
13.6
13.5
13.4
13.3
13.2
pull
Entries 102
Mean 909.2
Std Dev 861.1
250
200
150
100
50
0
−50
−100
−150
−200

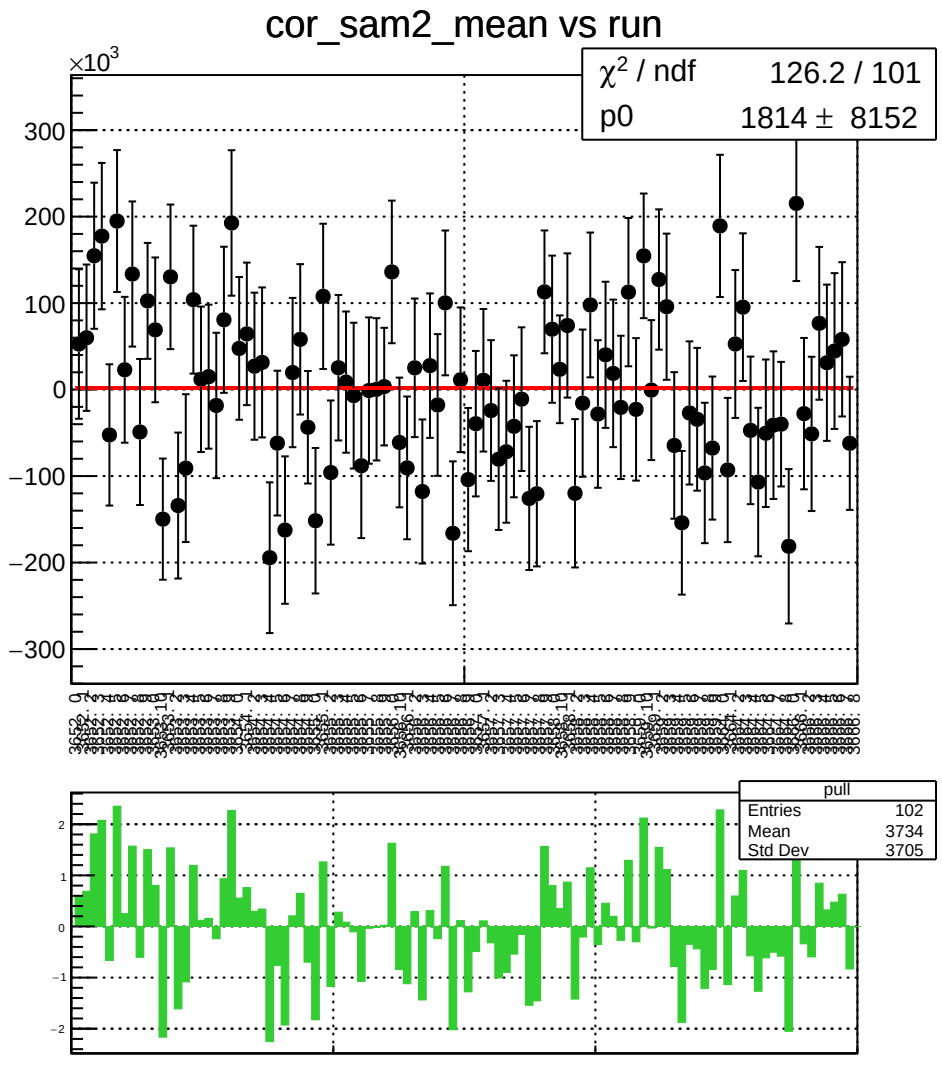

pull1D
Entries 102
Mean 1.225
Std Dev 5.304
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

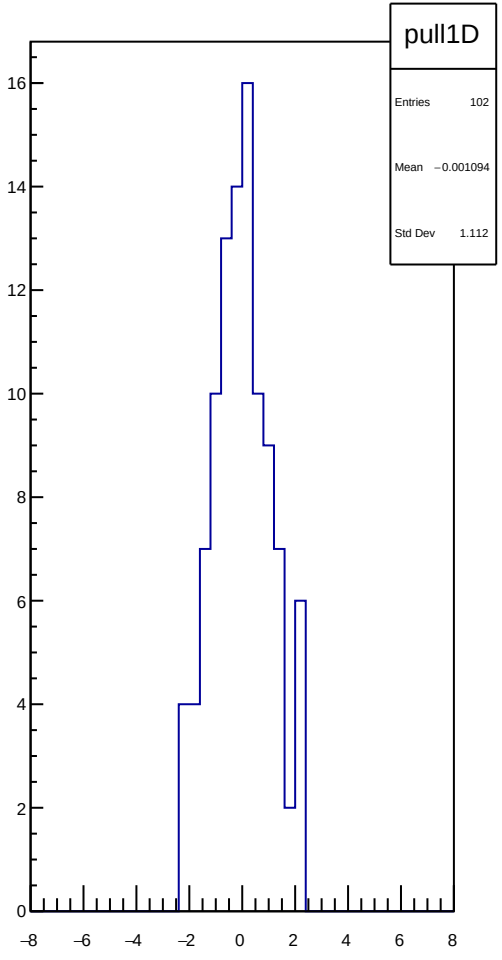

yield_sam8_rms vs run
χ² / ndf 6.846e+04 / 101
p0 0.08418 ± 6.186e–05
0.5
0.4
0.3
0.2
0.1

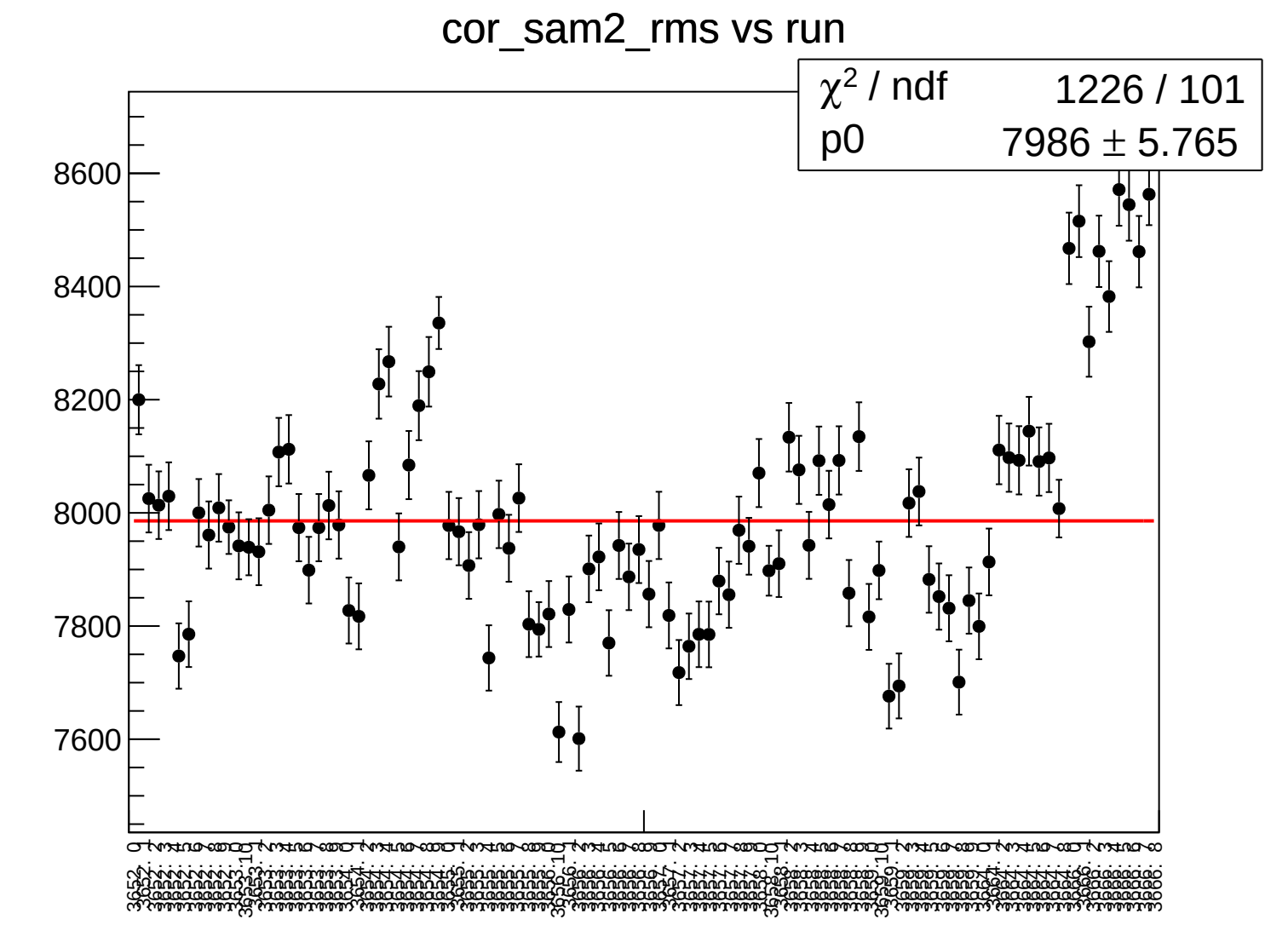

cor_sam1_mean vs run
χ² / ndf 92.6 / 101
p0 −2200 ± 1751
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 102
Mean −20.28
Std Dev 15.12
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

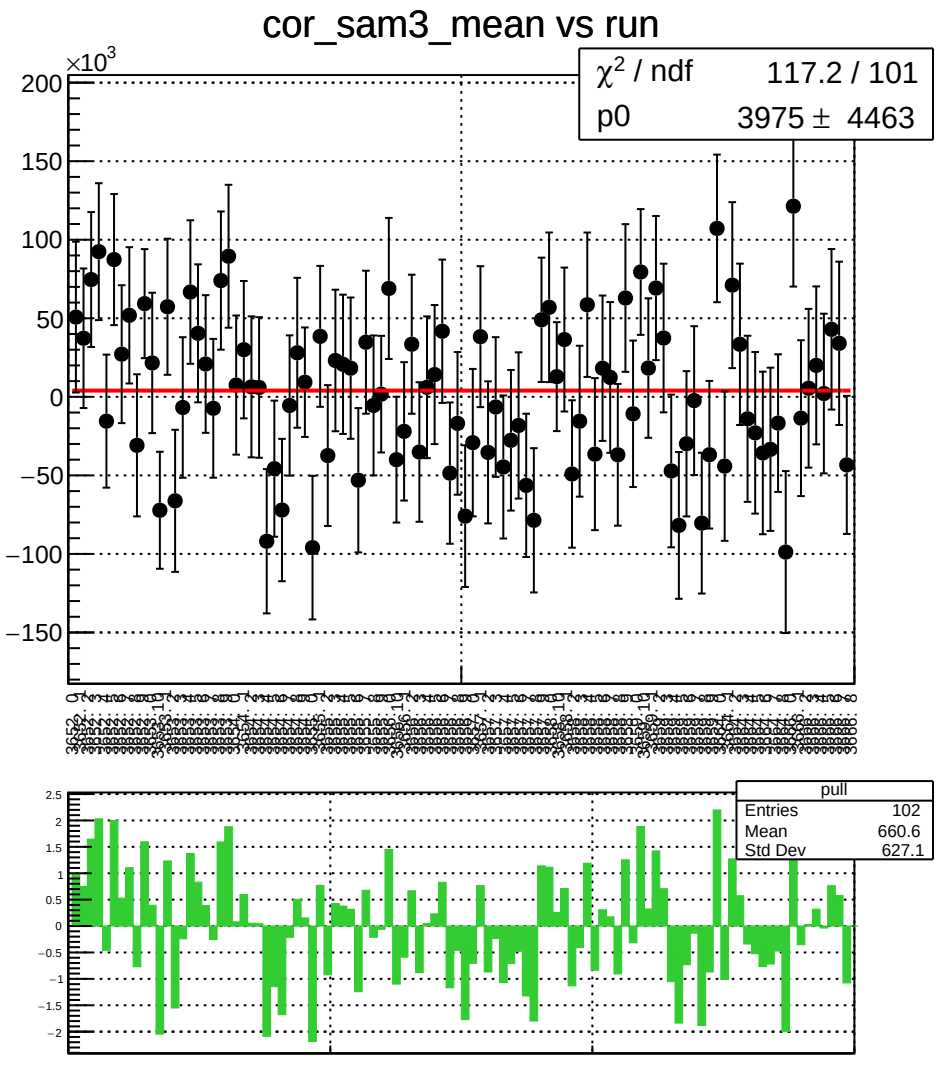

pull1D
Entries 102
Mean −0.005728
Std Dev 0.9528
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

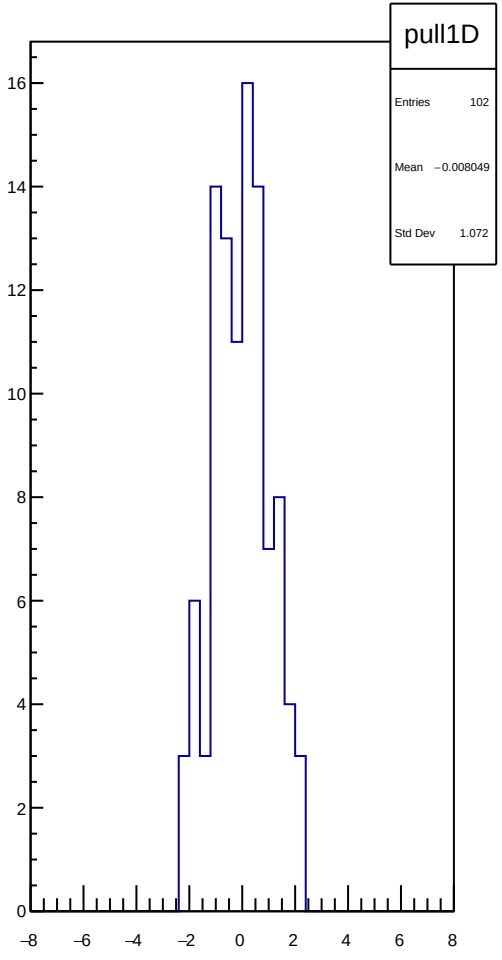

cor_sam1_rms vs run
χ^2 / ndf 7885 / 101
p0 1712 ± 1.238
1900
1800
1700
1600
1500

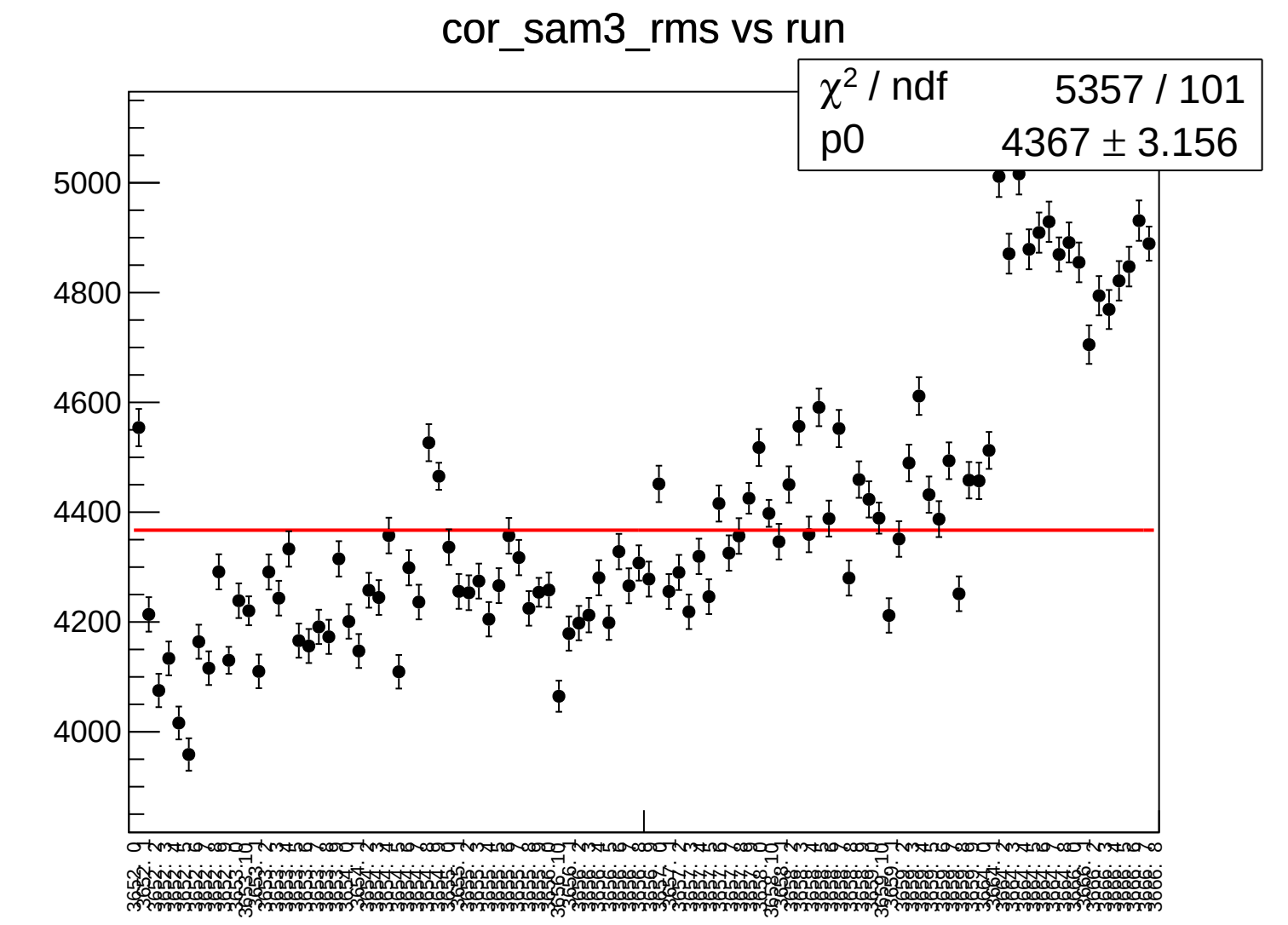

cor_sam2_mean vs run
×10^3
χ^2 / ndf 126.2 / 101
p0 1814 ± 8152
300
200
100
0
−100
−200
−300
pull
Entries 102
Mean 3734
Std Dev 3705
2
1
0
−1
−2

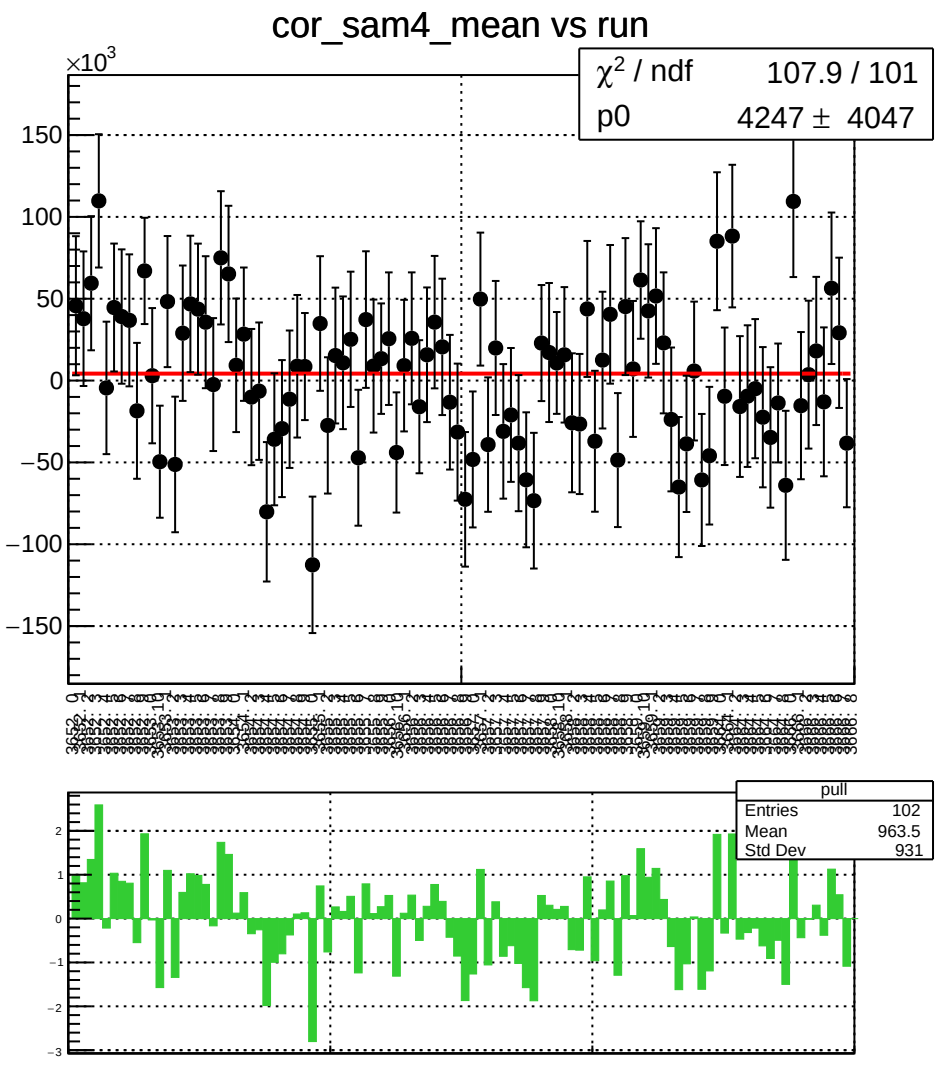

pull1D
Entries 102
Mean −0.001094
Std Dev 1.112
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

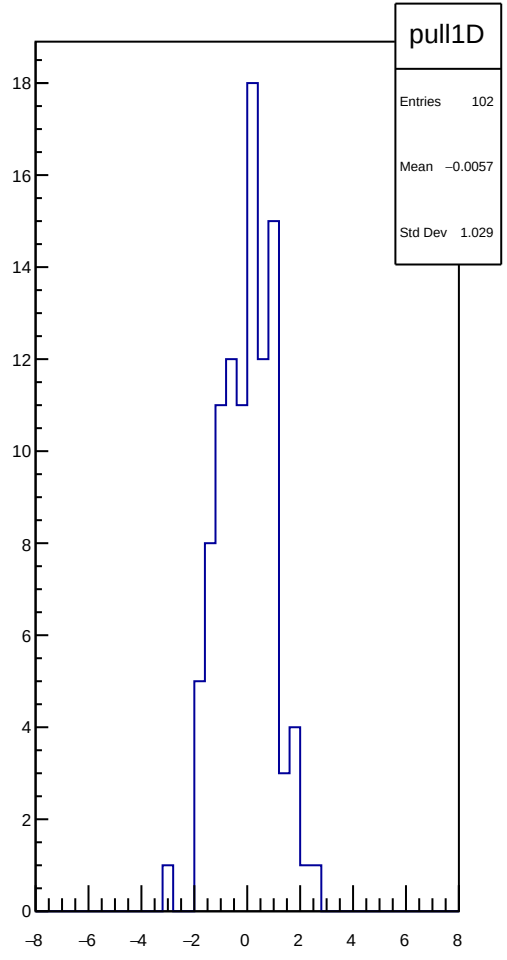

cor_sam2_rms vs run
χ^2 / ndf 1226 / 101
p0 7986 ± 5.765
8600
8400
8200
8000
7800
7600

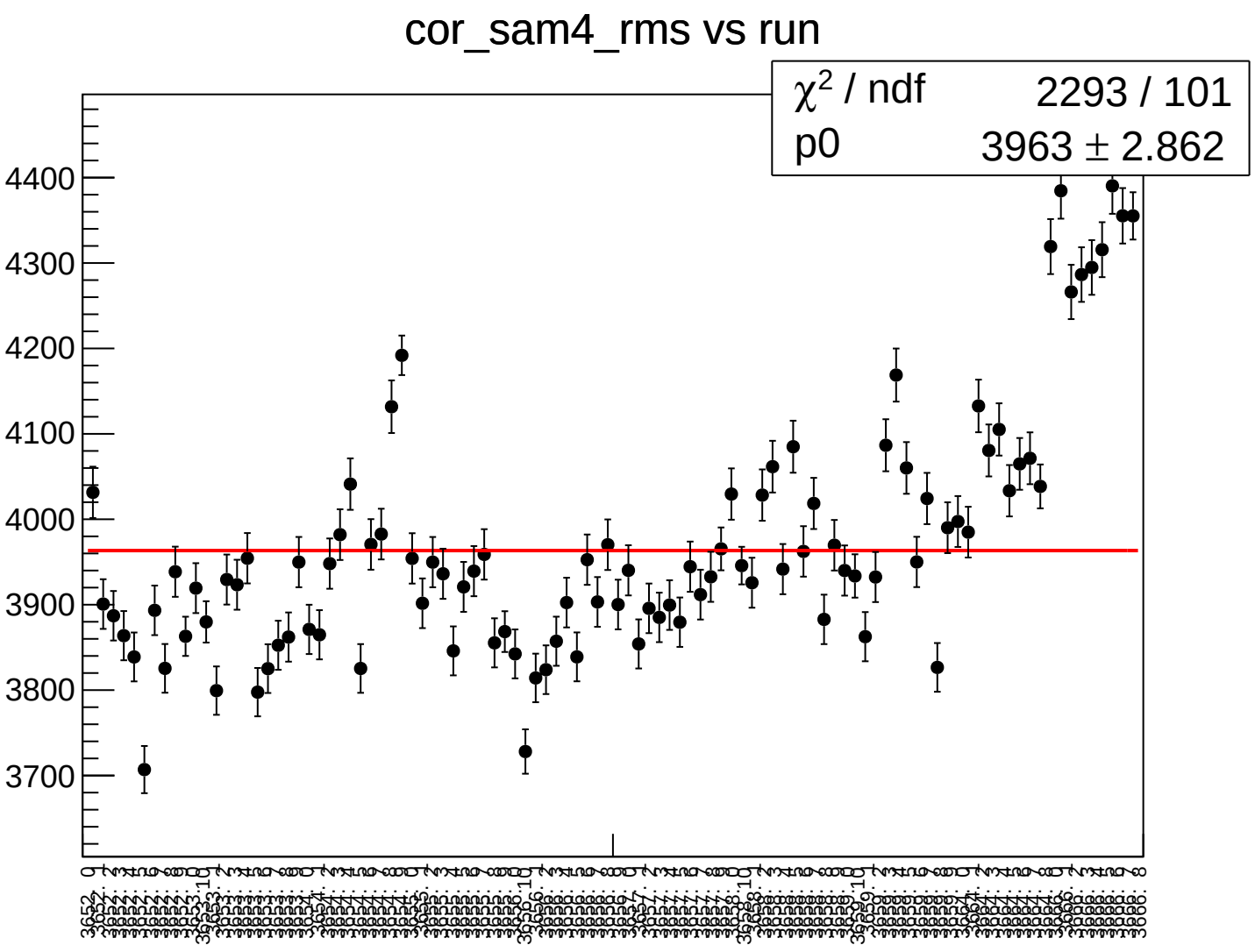

cor_sam3_mean vs run
×10^3
χ^2 / ndf 117.2 / 101
p0 3975 ± 4463
pull
Entries 102
Mean 660.6
Std Dev 627.1

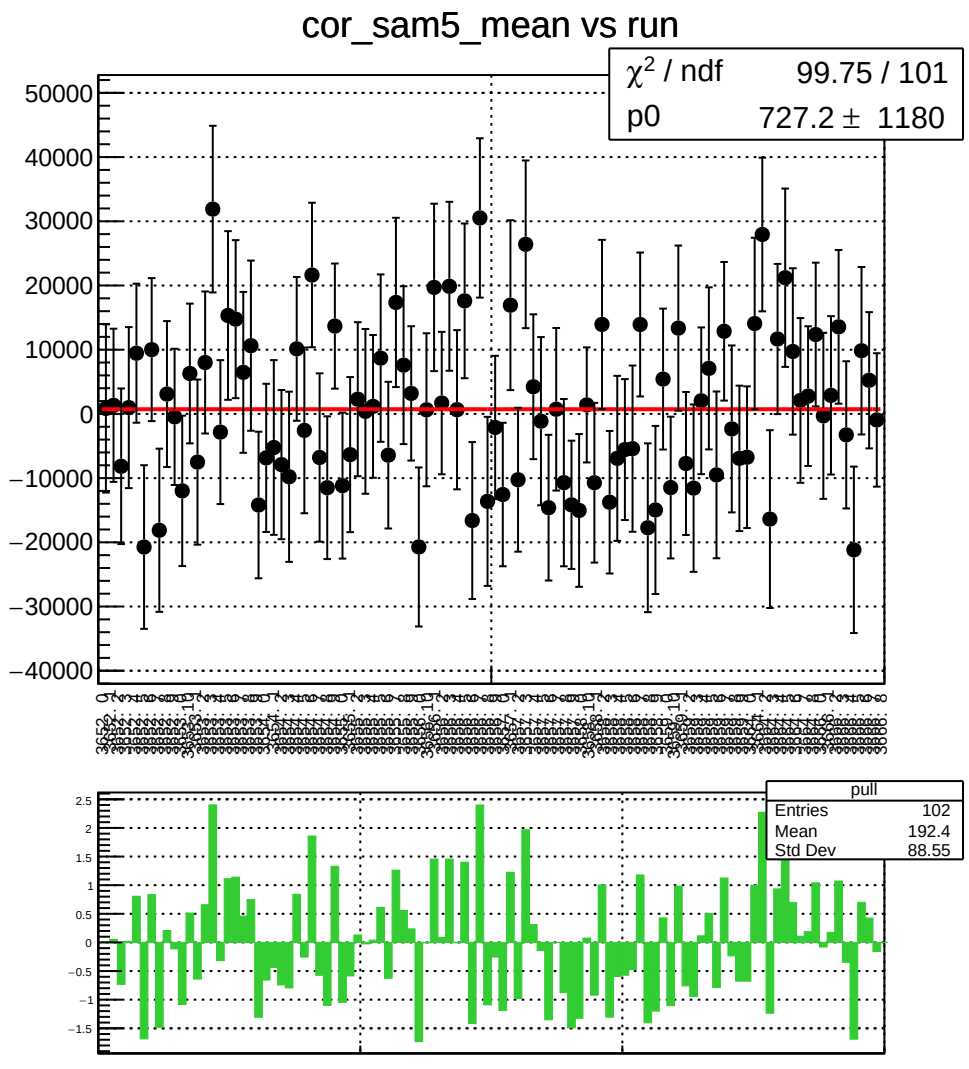

pull1D
Entries 102
Mean −0.008049
Std Dev 1.072

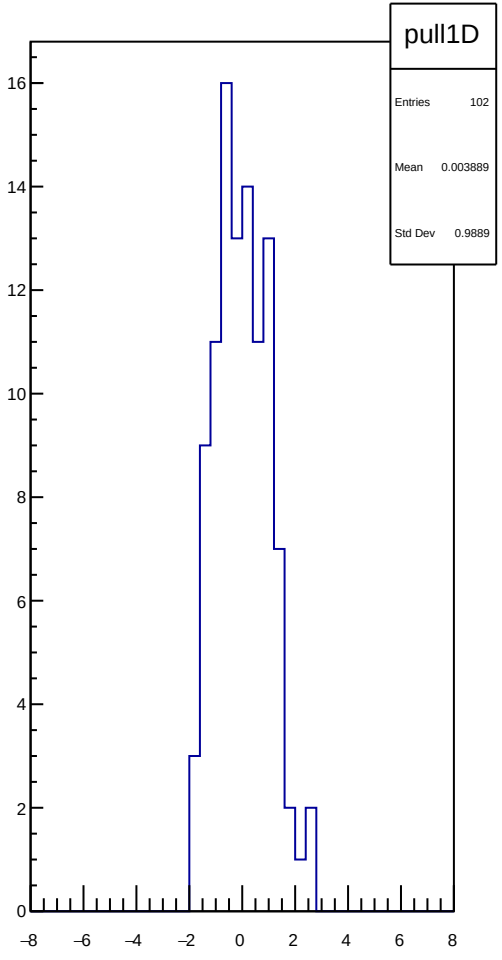

cor_sam3_rms vs run
χ² / ndf 5357 / 101
p0 4367 ± 3.156
5000
4800
4600
4400
4200
4000

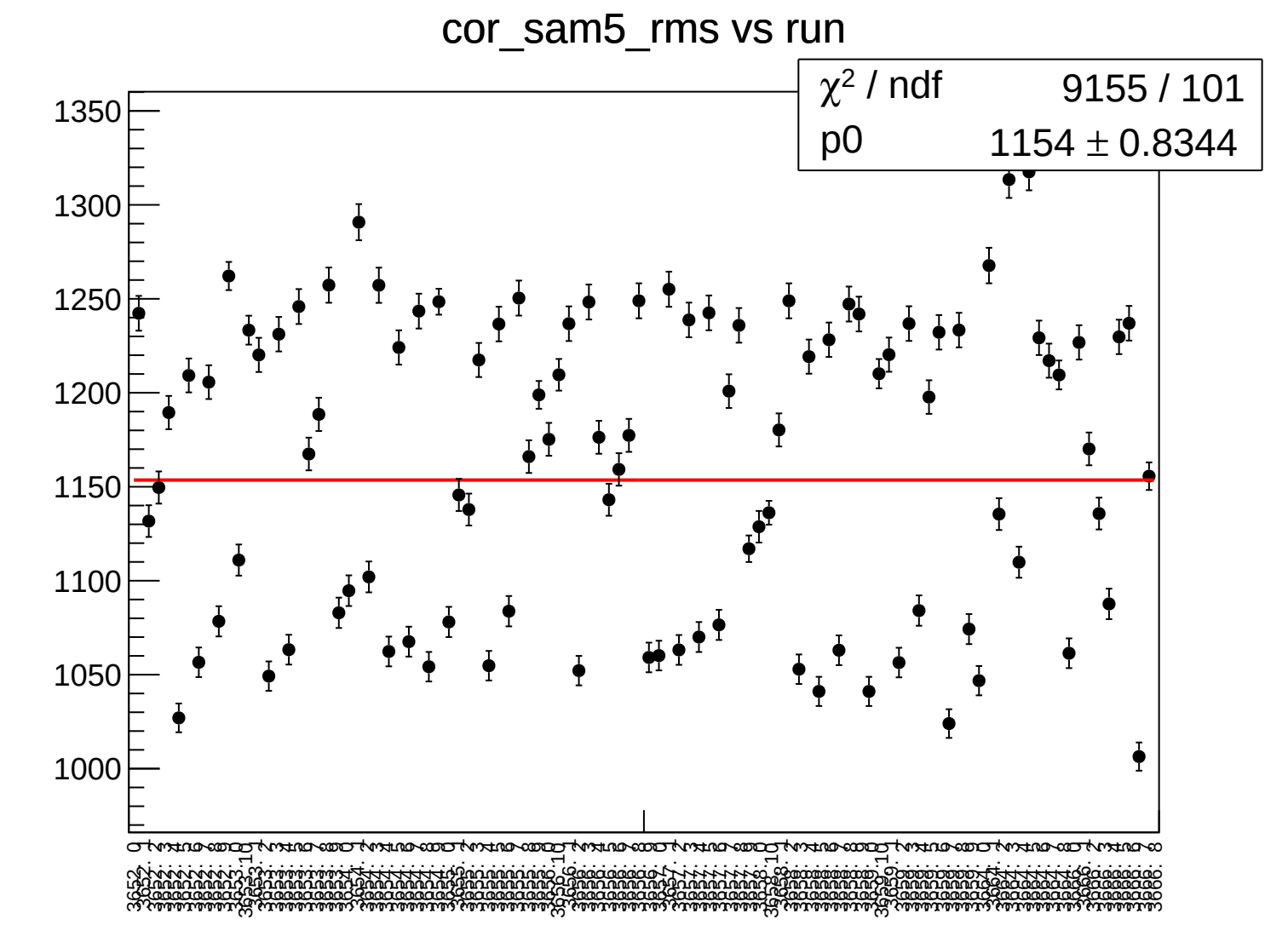

cor_sam4_mean vs run
×10^3
χ^2 / ndf 107.9 / 101
p0 4247 ± 4047
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 963.5
Std Dev 931
2
1
0
−1
−2
−3

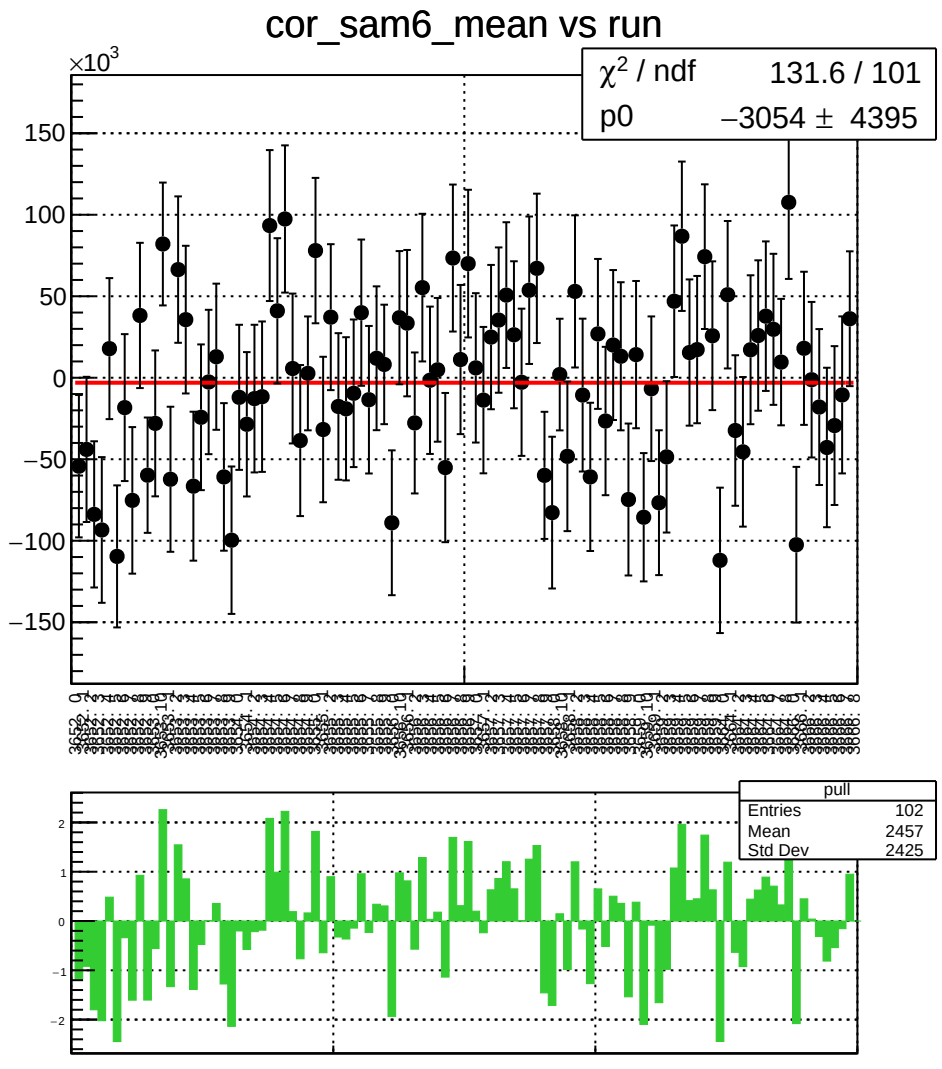

pull1D
Entries 102
Mean −0.0057
Std Dev 1.029
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

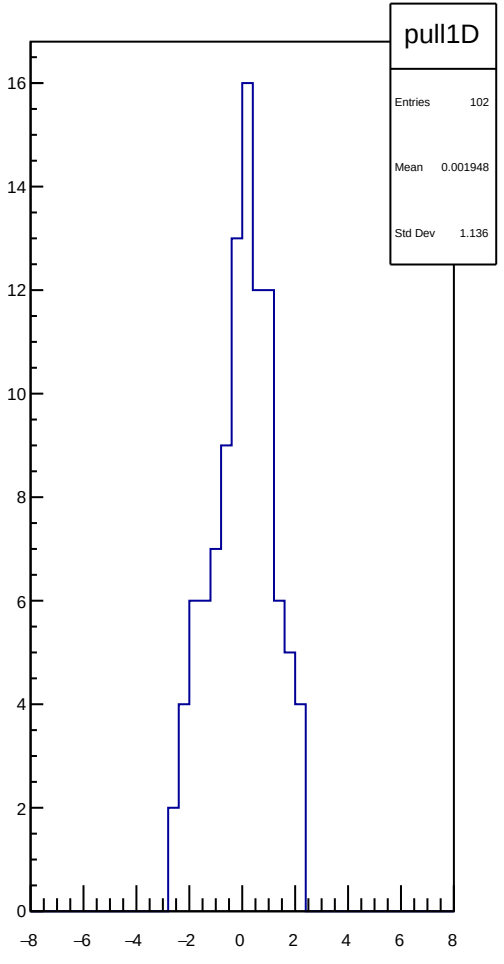

cor_sam4_rms vs run
χ^2 / ndf 2293 / 101
p0 3963 ± 2.862
4400
4300
4200
4100
4000
3900
3800
3700

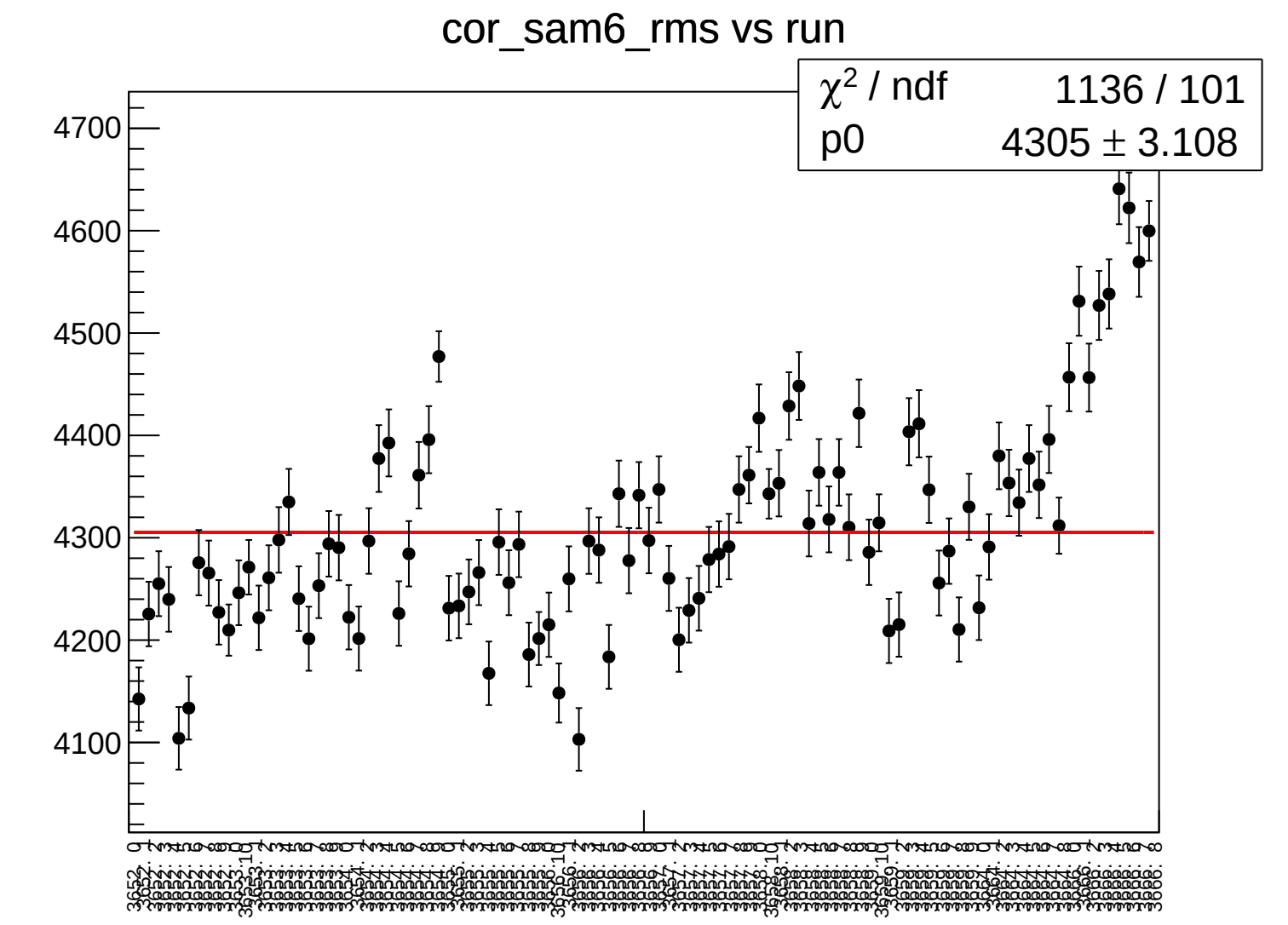

cor_sam5_mean vs run
χ² / ndf 99.75 / 101
p0 727.2 ± 1180
pull
Entries 102
Mean 192.4
Std Dev 88.55

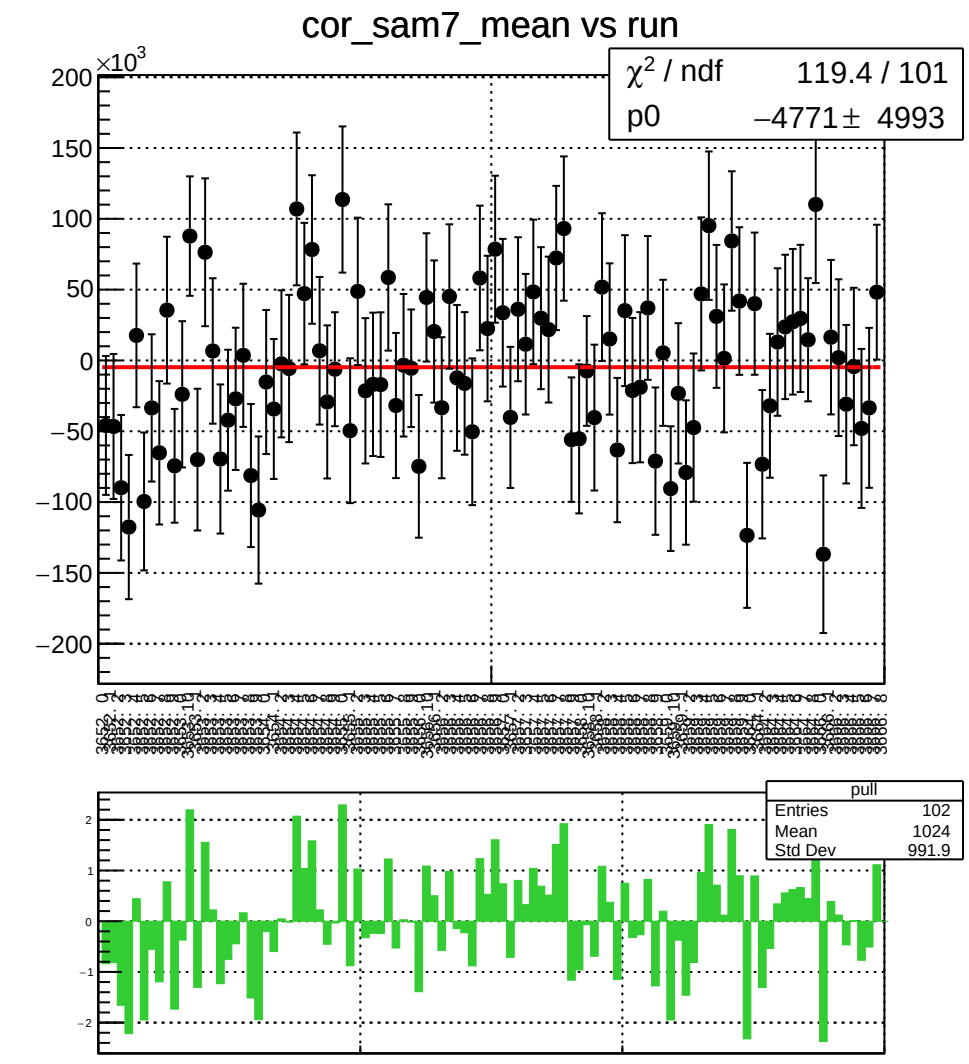

pull1D
Entries 102
Mean 0.003889
Std Dev 0.9889

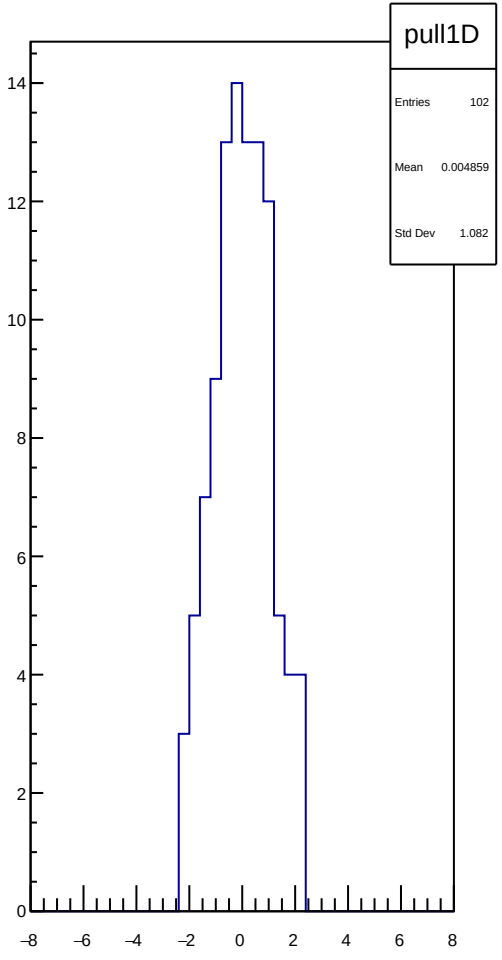

cor_sam5_rms vs run
χ^2 / ndf 9155 / 101
p0 1154 ± 0.8344
1350
1300
1250
1200
1150
1100
1050
1000

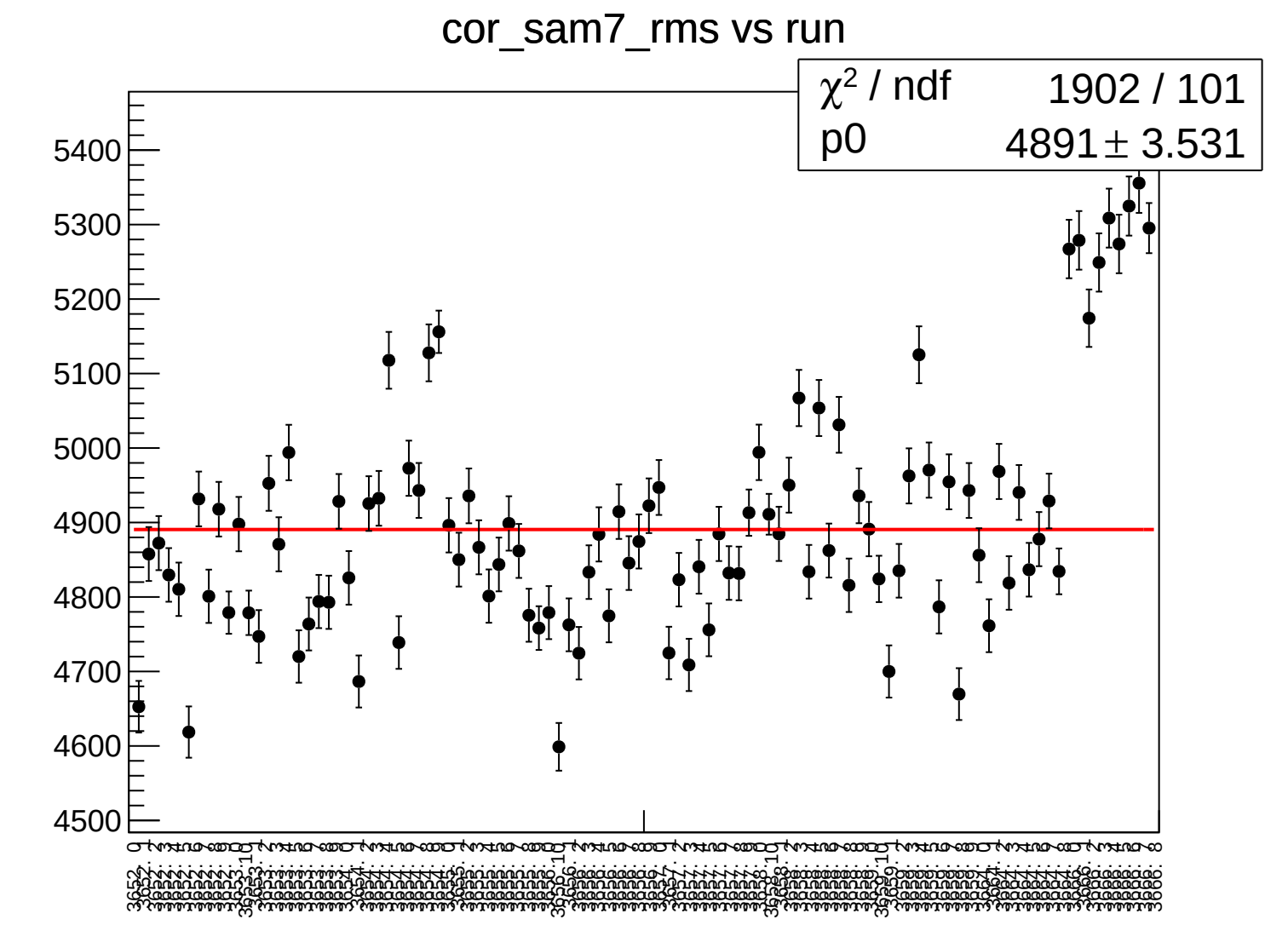

cor_sam6_mean vs run
×10^3
χ^2 / ndf 131.6 / 101
p0 −3054 ± 4395
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 2457
Std Dev 2425
2
1
0
−1
−2

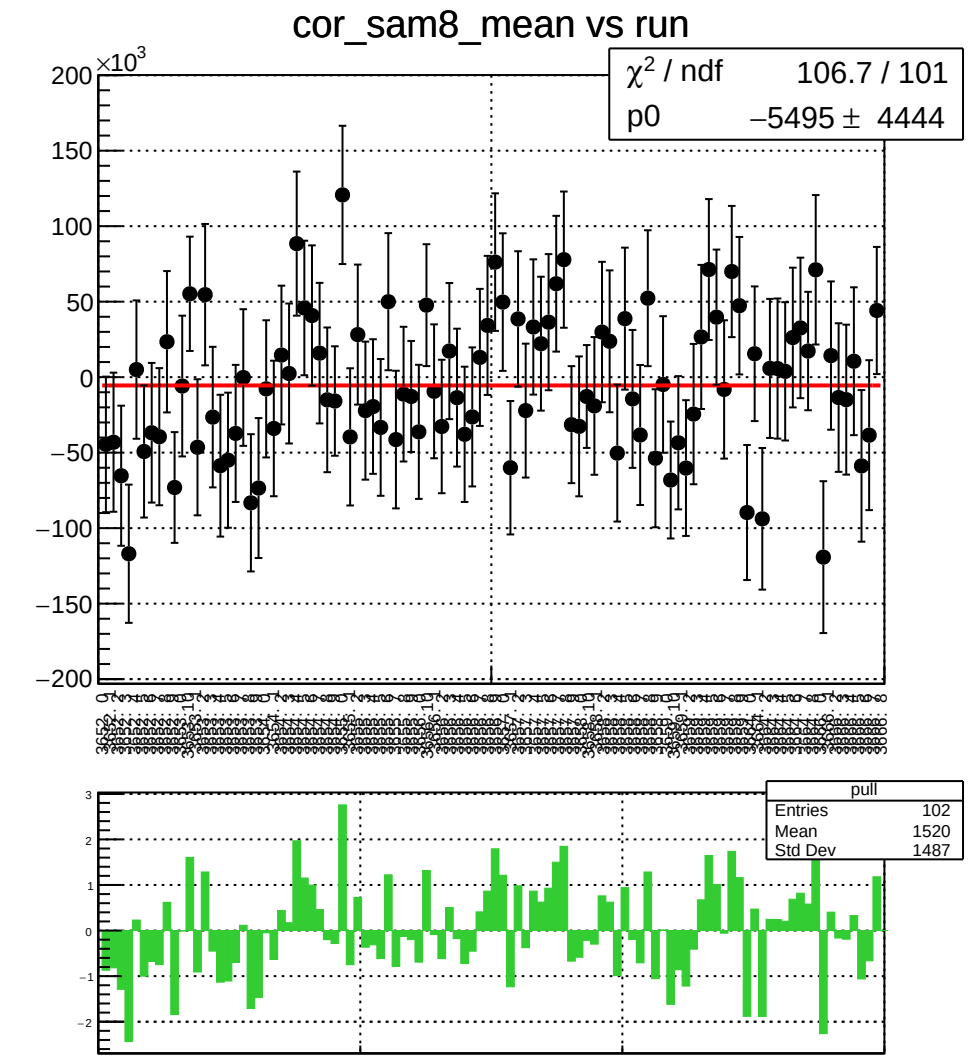

pull1D
Entries 102
Mean 0.001948
Std Dev 1.136
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

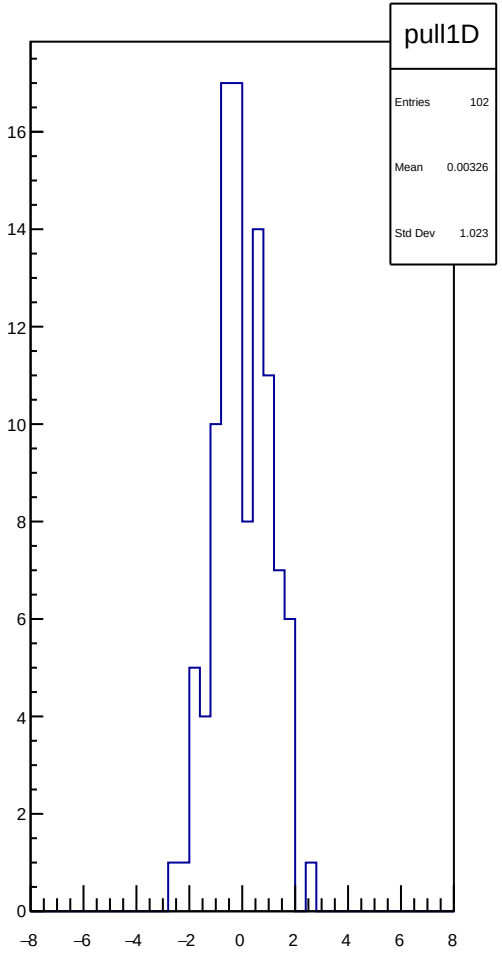

cor_sam6_rms vs run
χ² / ndf 1136 / 101
p0 4305 ± 3.108
4700
4600
4500
4400
4300
4200
4100

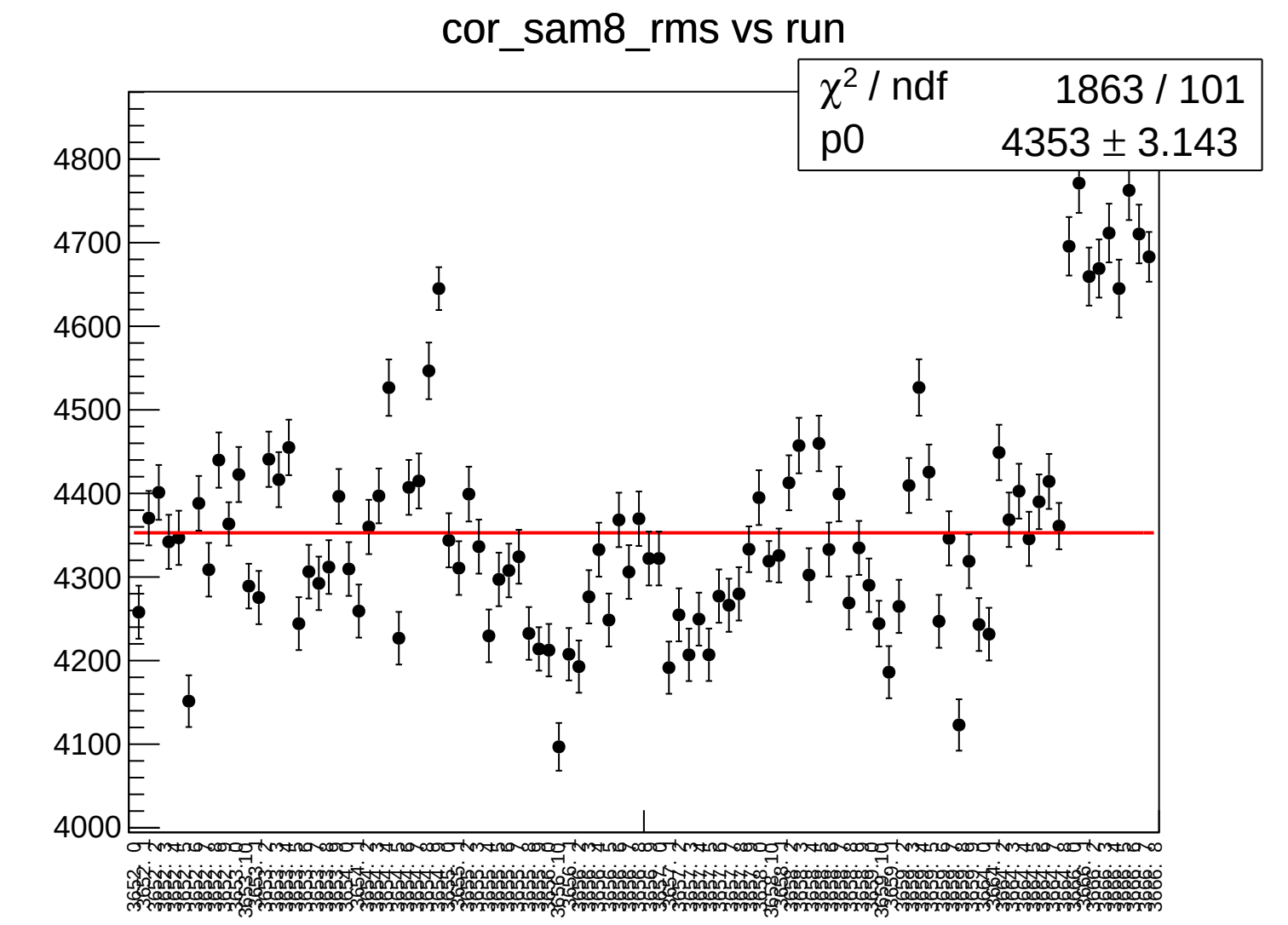

cor_sam7_mean vs run
χ² / ndf 119.4 / 101
p0 −4771 ± 4993
×10³
pull
Entries 102
Mean 1024
Std Dev 991.9

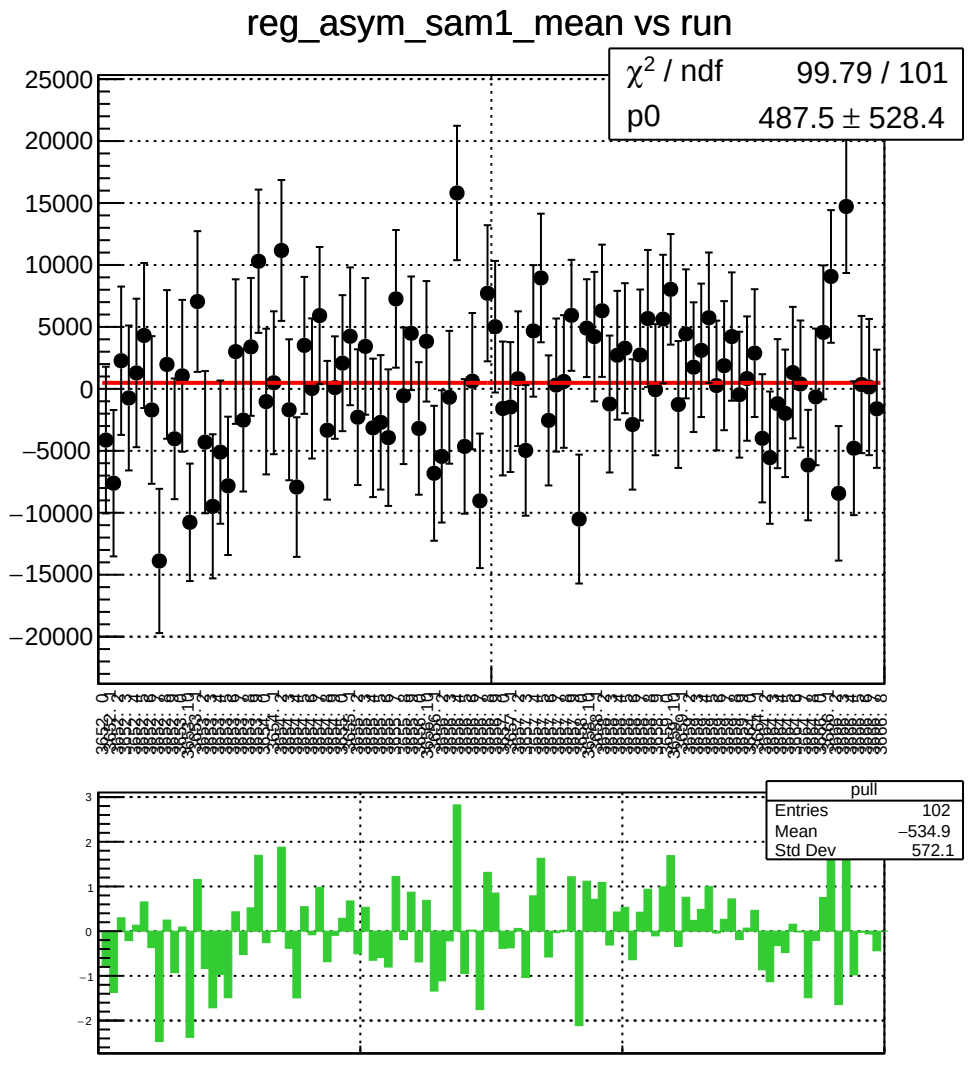

pull1D
Entries 102
Mean 0.004859
Std Dev 1.082

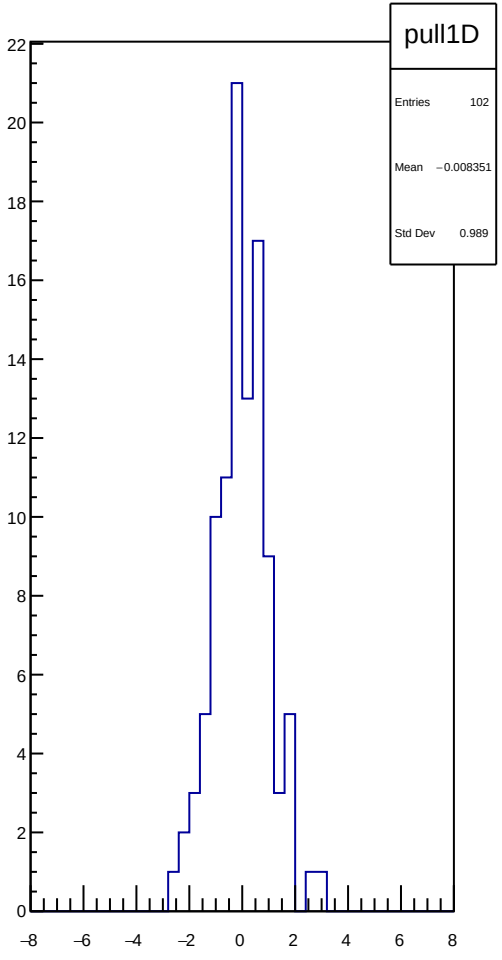

cor_sam7_rms vs run
χ² / ndf 1902 / 101
p0 4891 ± 3.531
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500

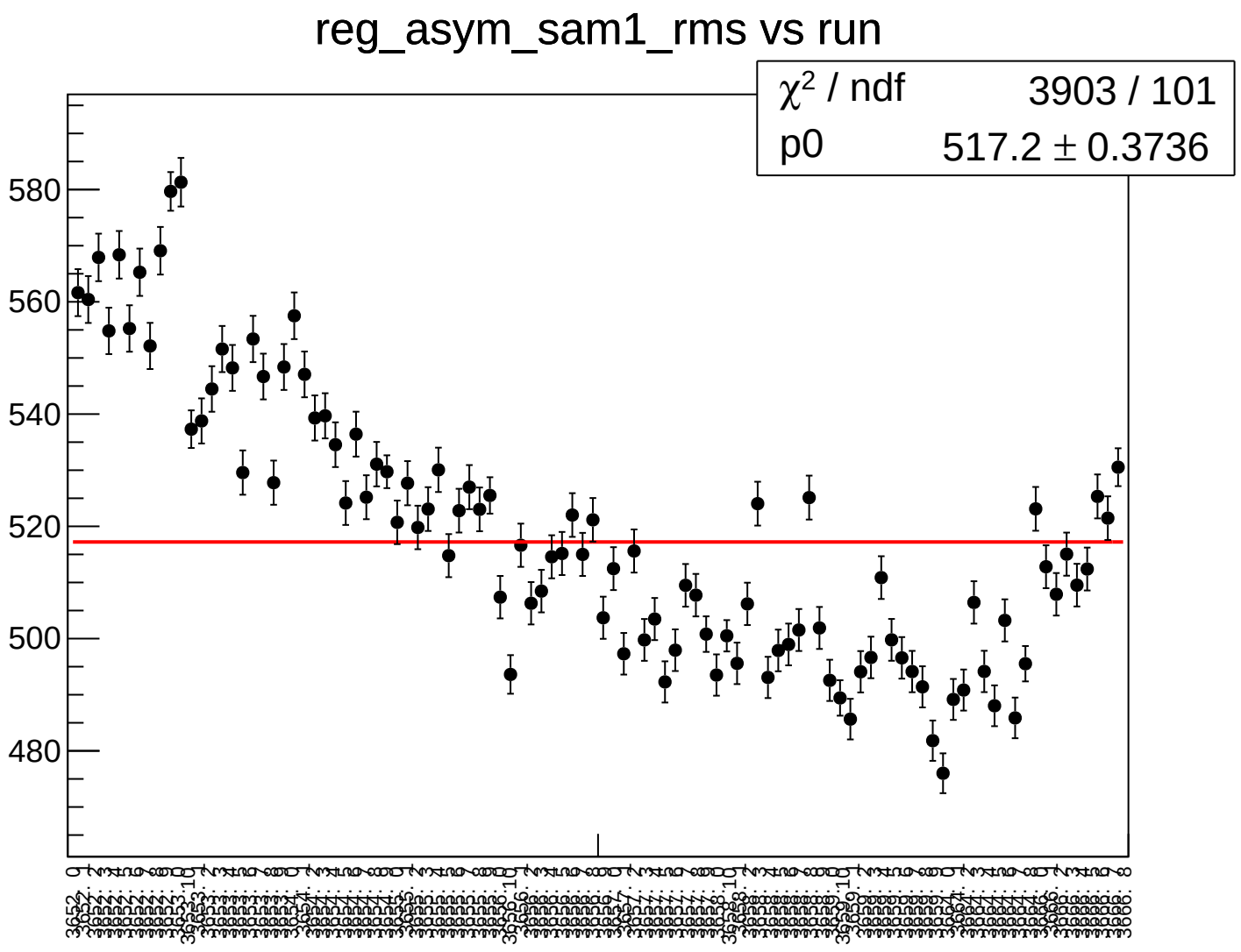

cor_sam8_mean vs run
χ² / ndf 106.7 / 101
p0 −5495 ± 4444
×10³
pull
Entries 102
Mean 1520
Std Dev 1487

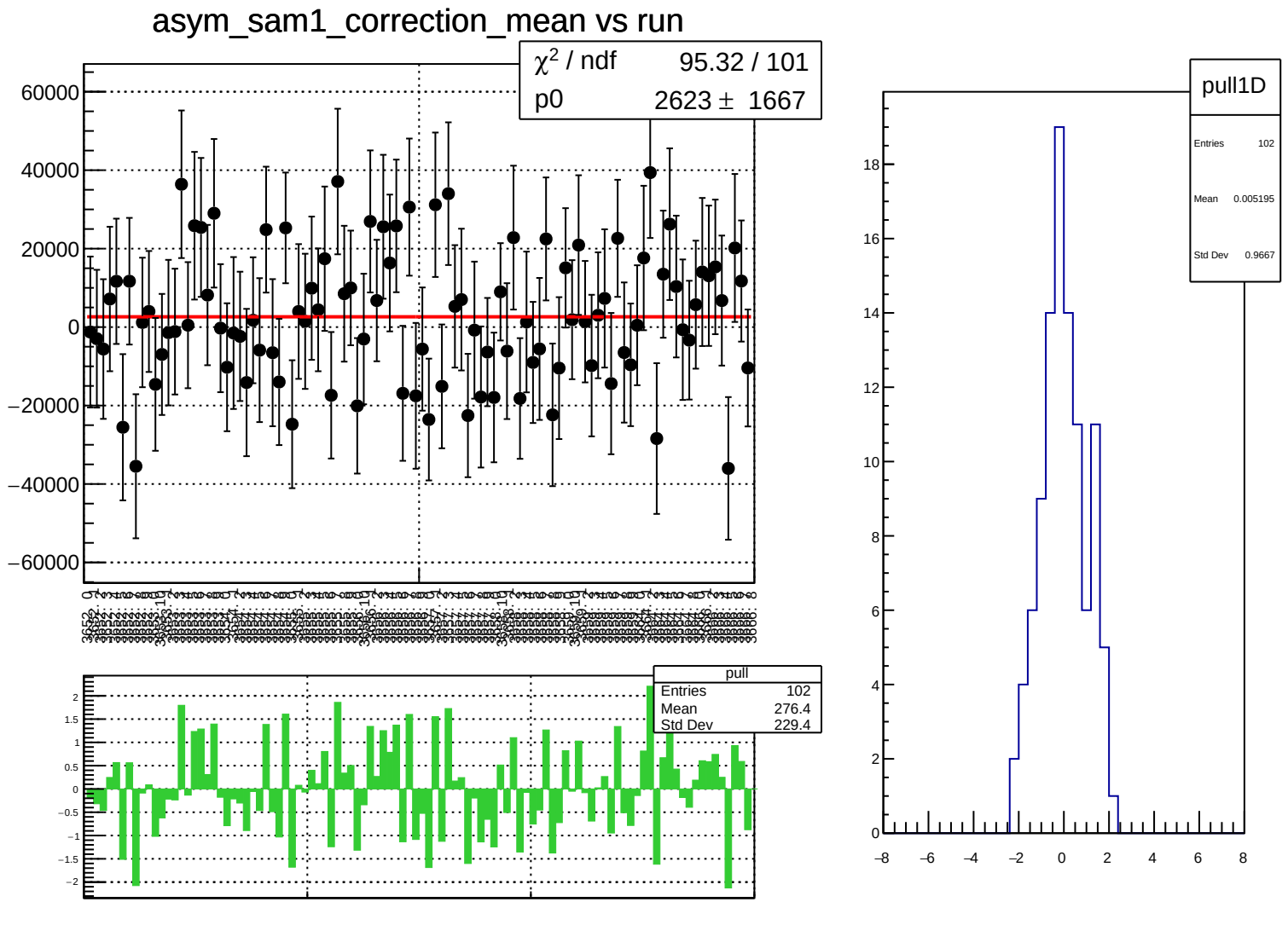

pull1D
Entries 102
Mean 0.00326
Std Dev 1.023

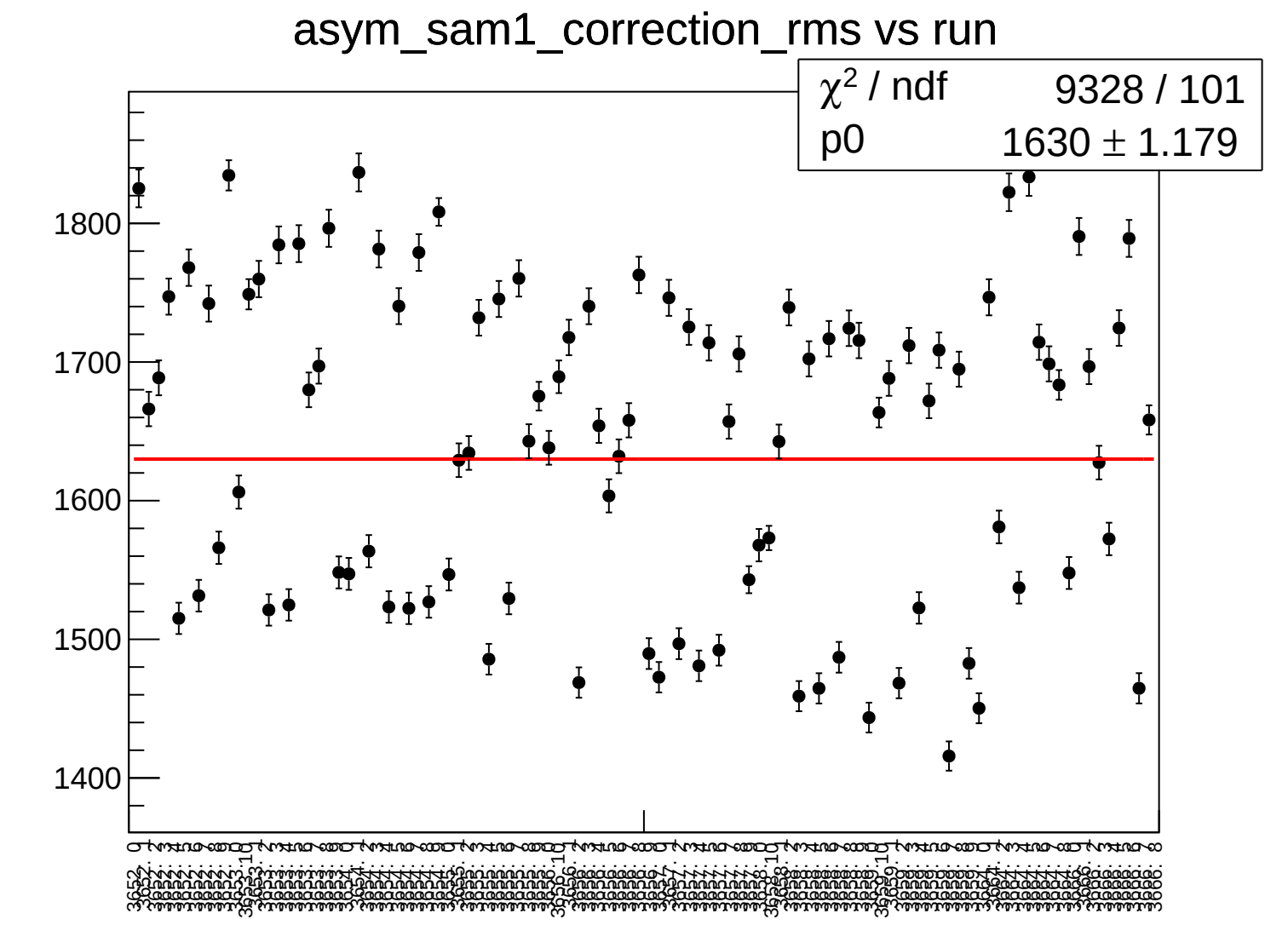

cor_sam8_rms vs run
χ² / ndf 1863 / 101
p0 4353 ± 3.143
4800
4700
4600
4500
4400
4300
4200
4100
4000

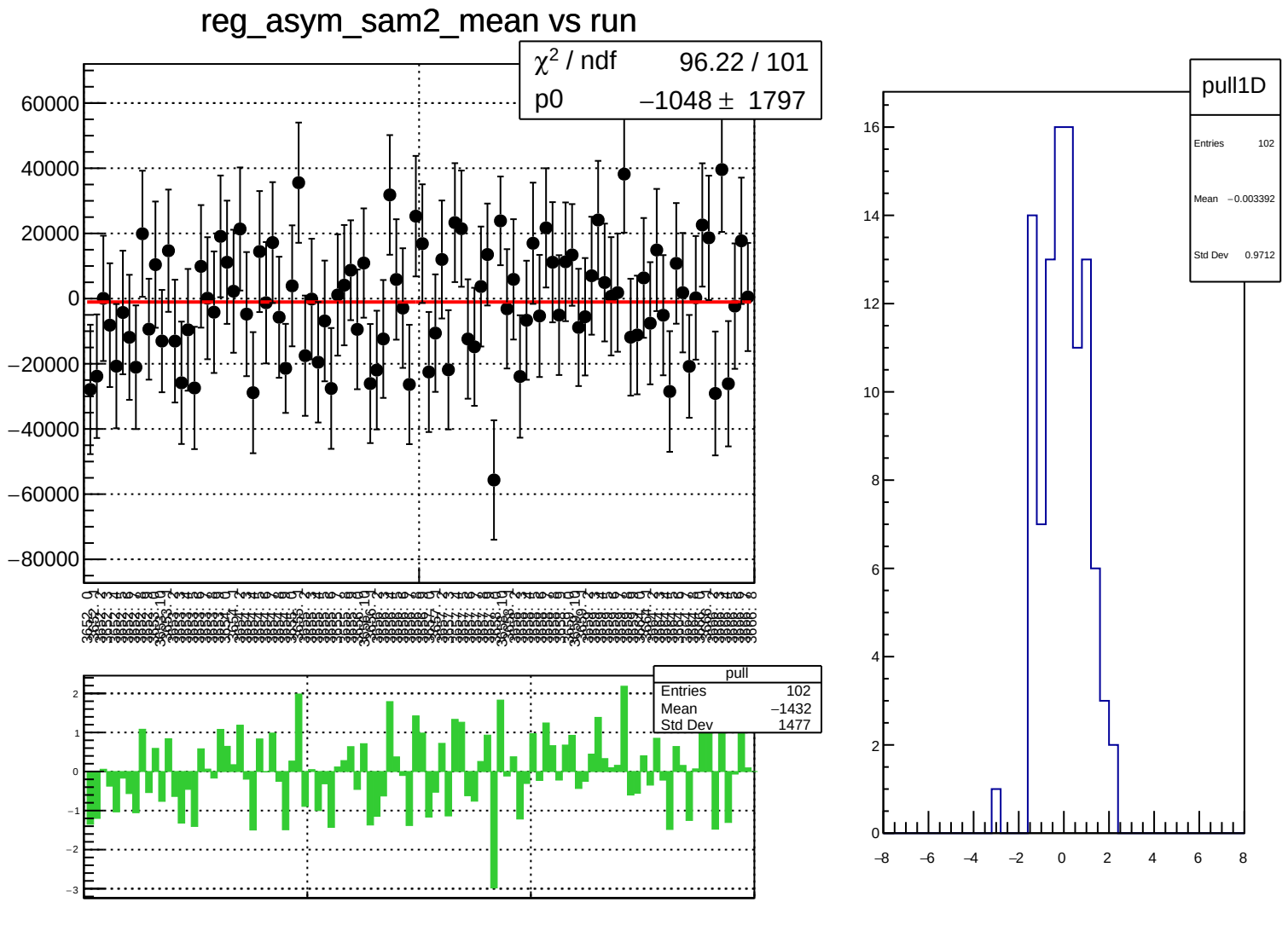

reg_asym_sam1_mean vs run
χ² / ndf 99.79 / 101
p0 487.5 ± 528.4
pull
Entries 102
Mean −534.9
Std Dev 572.1

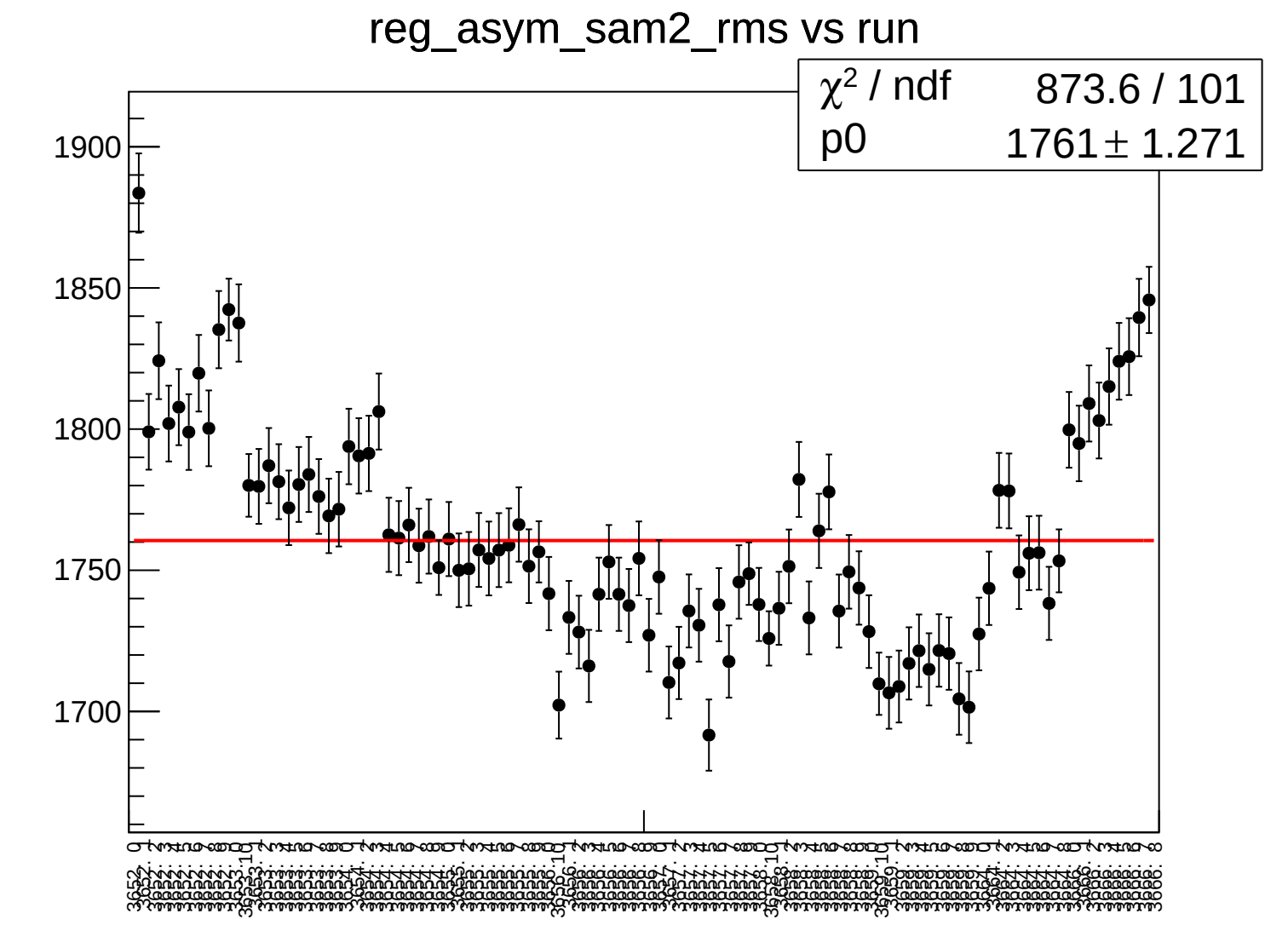

pull1D
Entries 102
Mean −0.008351
Std Dev 0.989

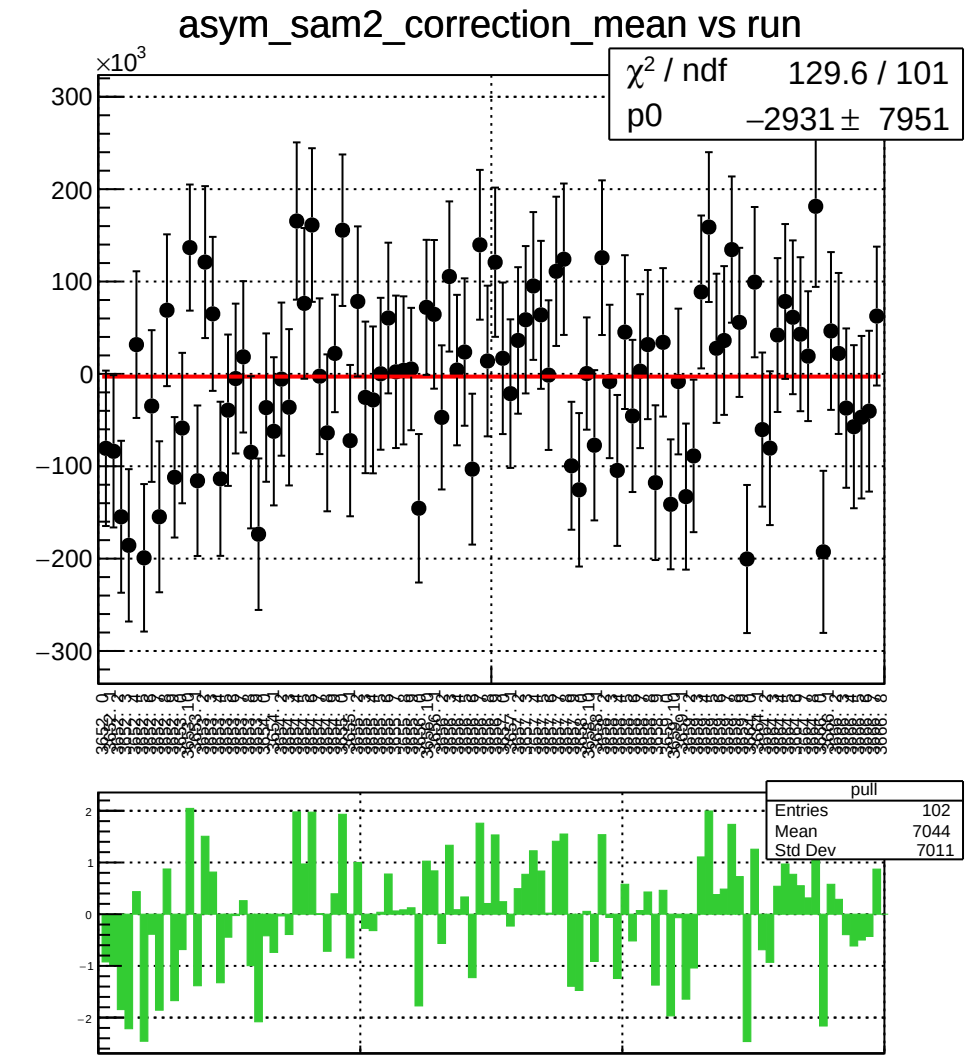

reg_asym_sam1_rms vs run
χ² / ndf 3903 / 101
p0 517.2 ± 0.3736
580
560
540
520
500
480

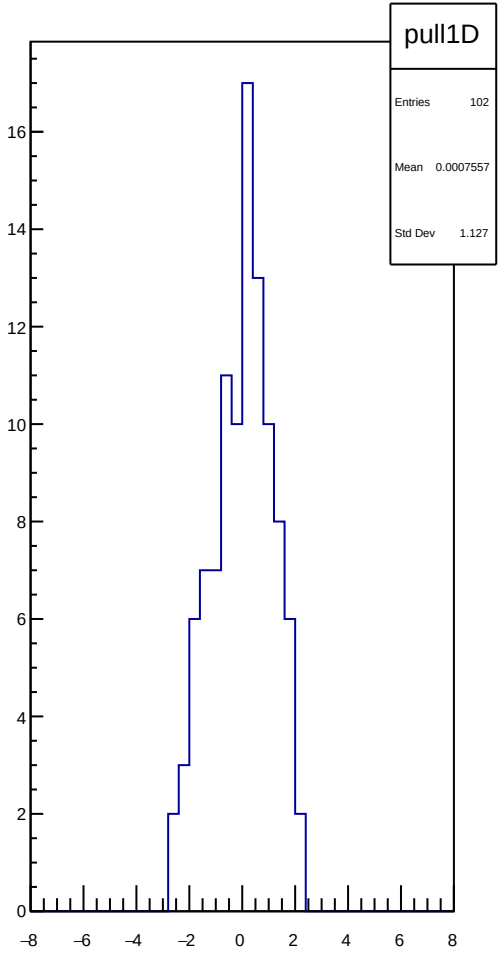

asym_sam1_correction_mean vs run
χ² / ndf 95.32 / 101
p0 2623 ± 1667
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 102
Mean 276.4
Std Dev 229.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean 0.005195
Std Dev 0.9667
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

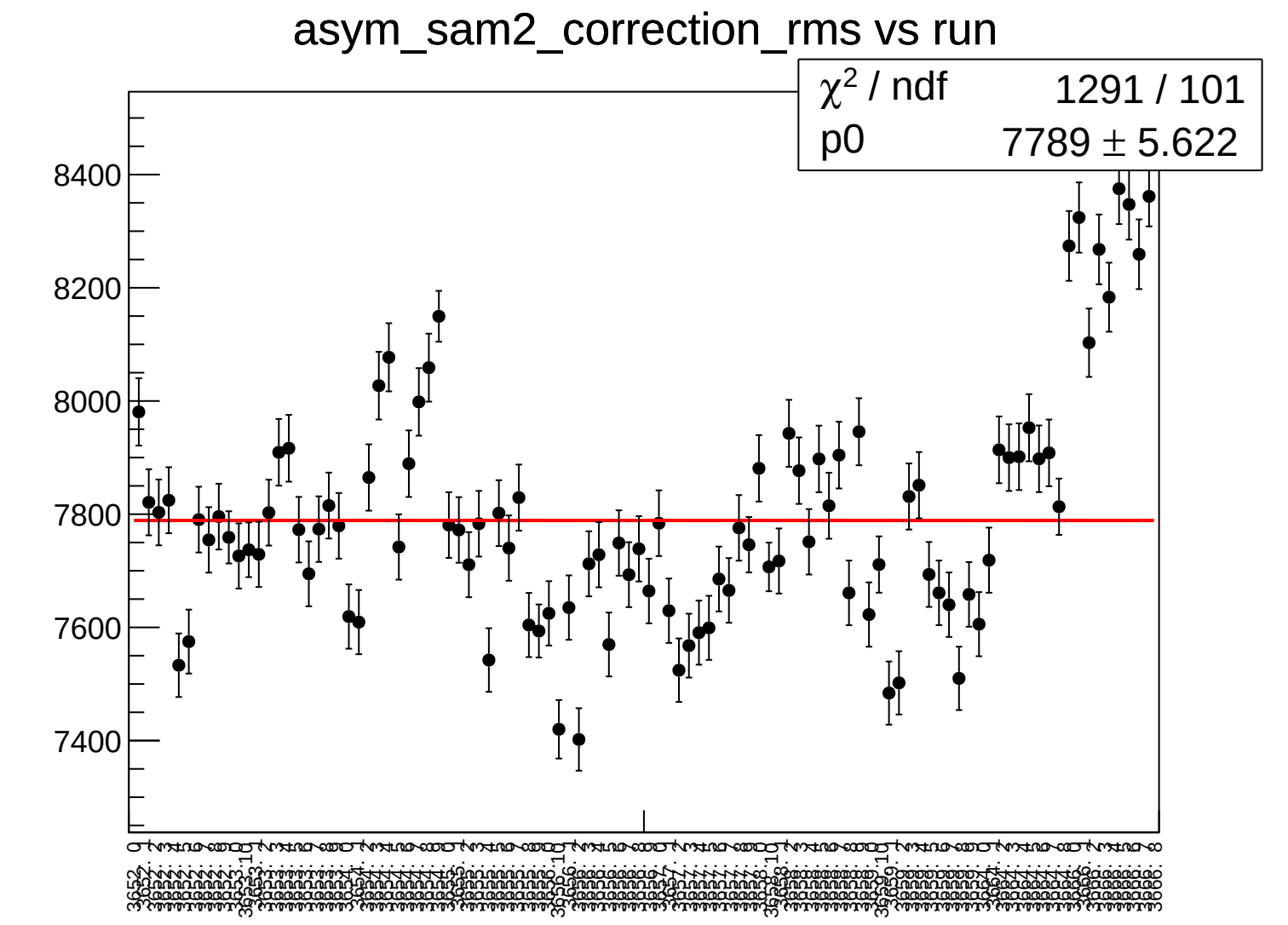

asym_sam1_correction_rms vs run
χ² / ndf 9328 / 101
p0 1630 ± 1.179
1800
1700
1600
1500
1400

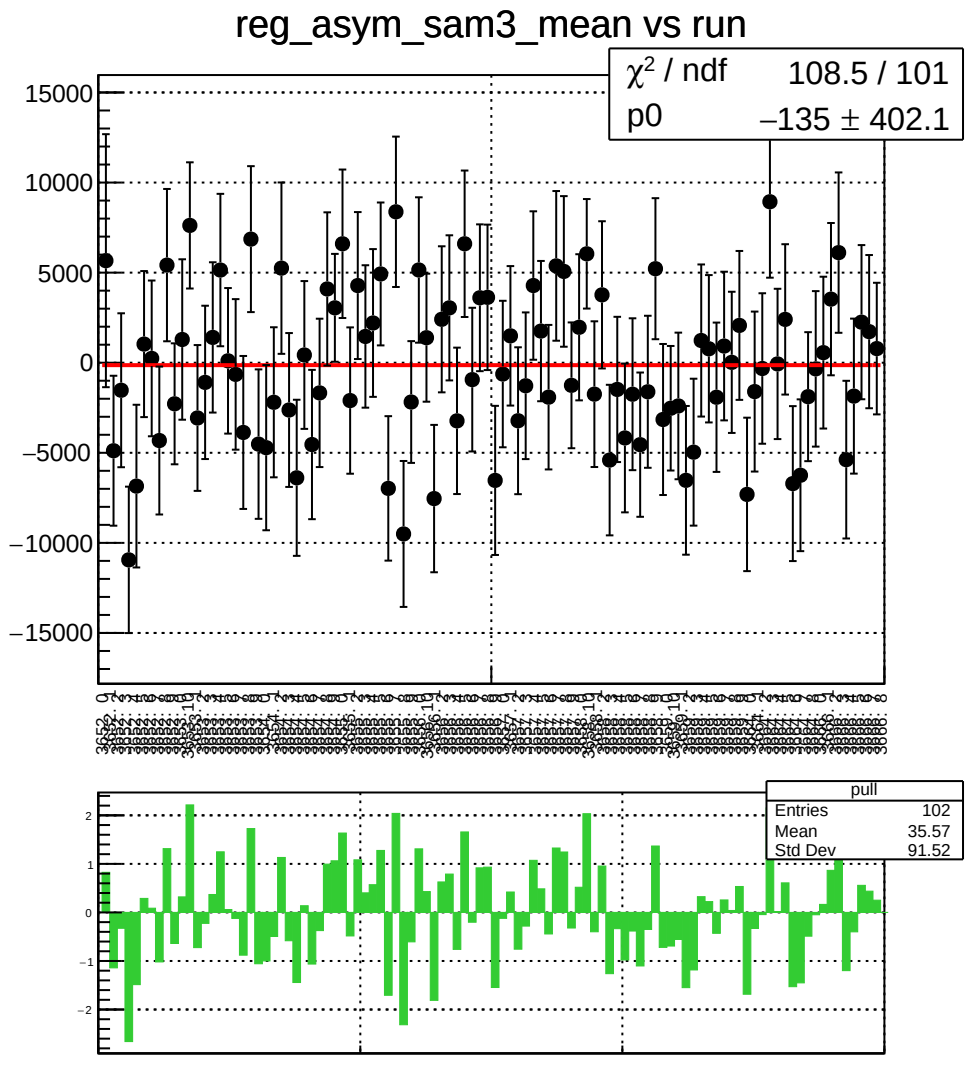

reg_asym_sam2_mean vs run
χ² / ndf 96.22 / 101
p0 −1048 ± 1797
60000
40000
20000
0
−20000
−40000
−60000
−80000
pull
Entries 102
Mean −1432
Std Dev 1477
2
1
0
−1
−2
−3
pull1D
Entries 102
Mean −0.003392
Std Dev 0.9712
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

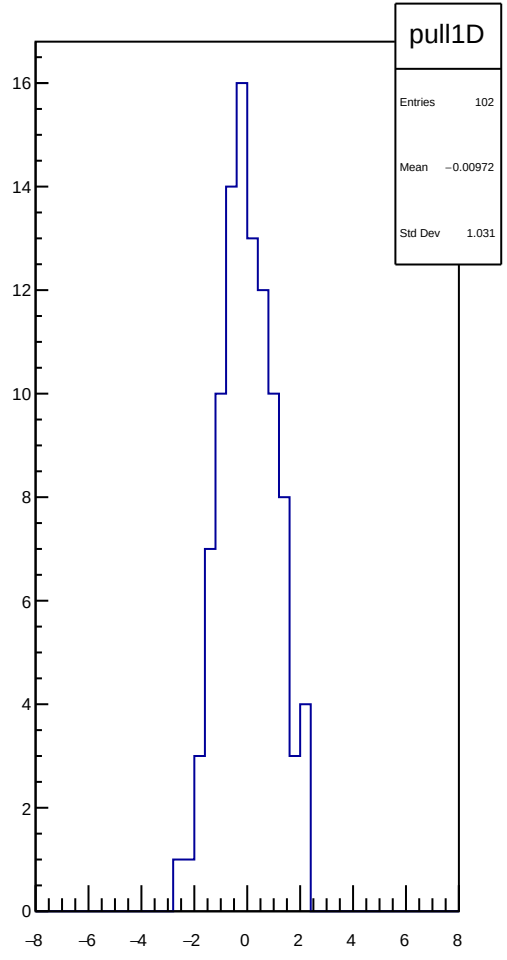

reg_asym_sam2_rms vs run
χ^2 / ndf 873.6 / 101
p0 1761 ± 1.271
1900
1850
1800
1750
1700

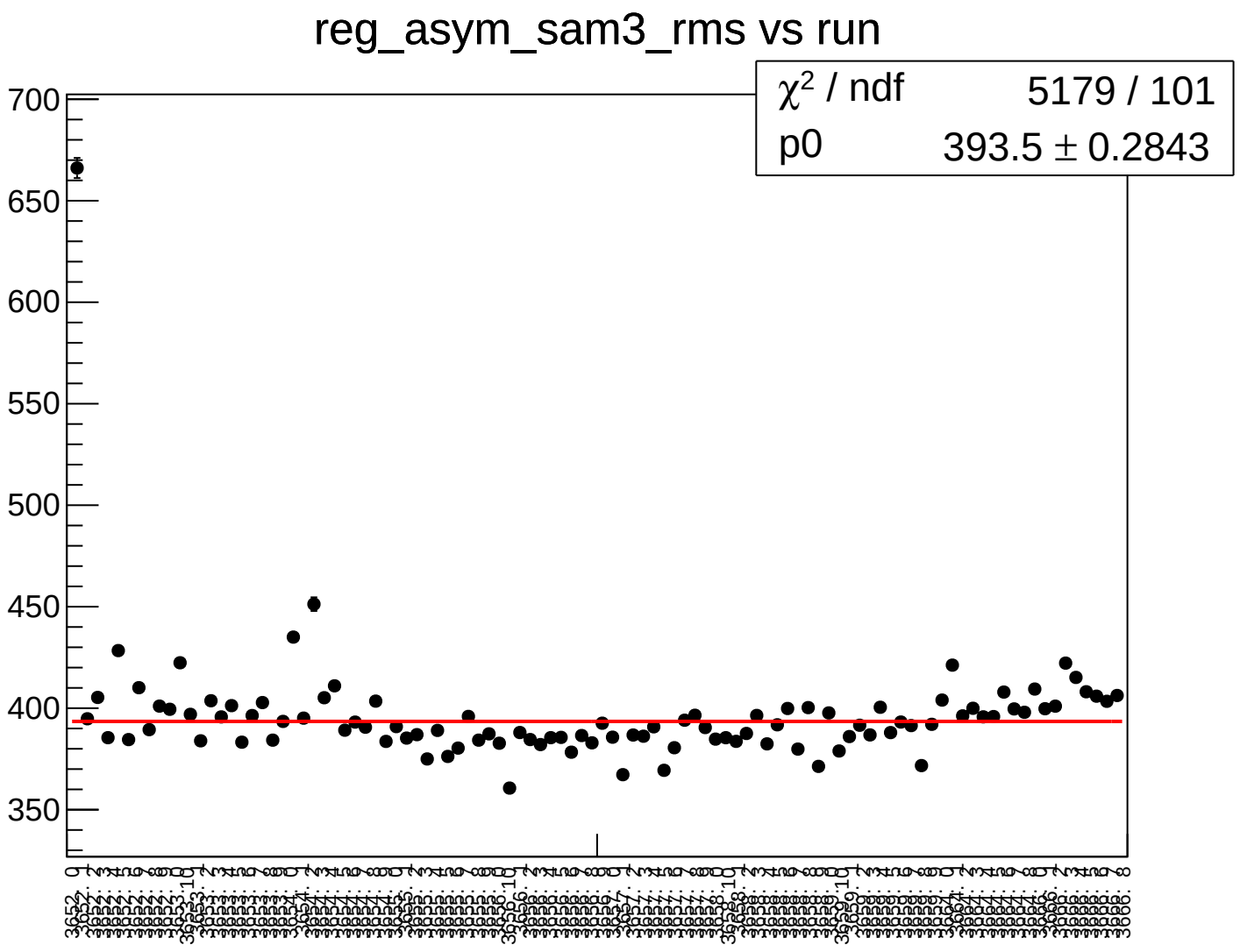

asym_sam2_correction_mean vs run
×10^3
χ² / ndf 129.6 / 101
p0 −2931 ± 7951
300
200
100
0
−100
−200
−300
pull
Entries 102
Mean 7044
Std Dev 7011
2
1
0
−1
−2

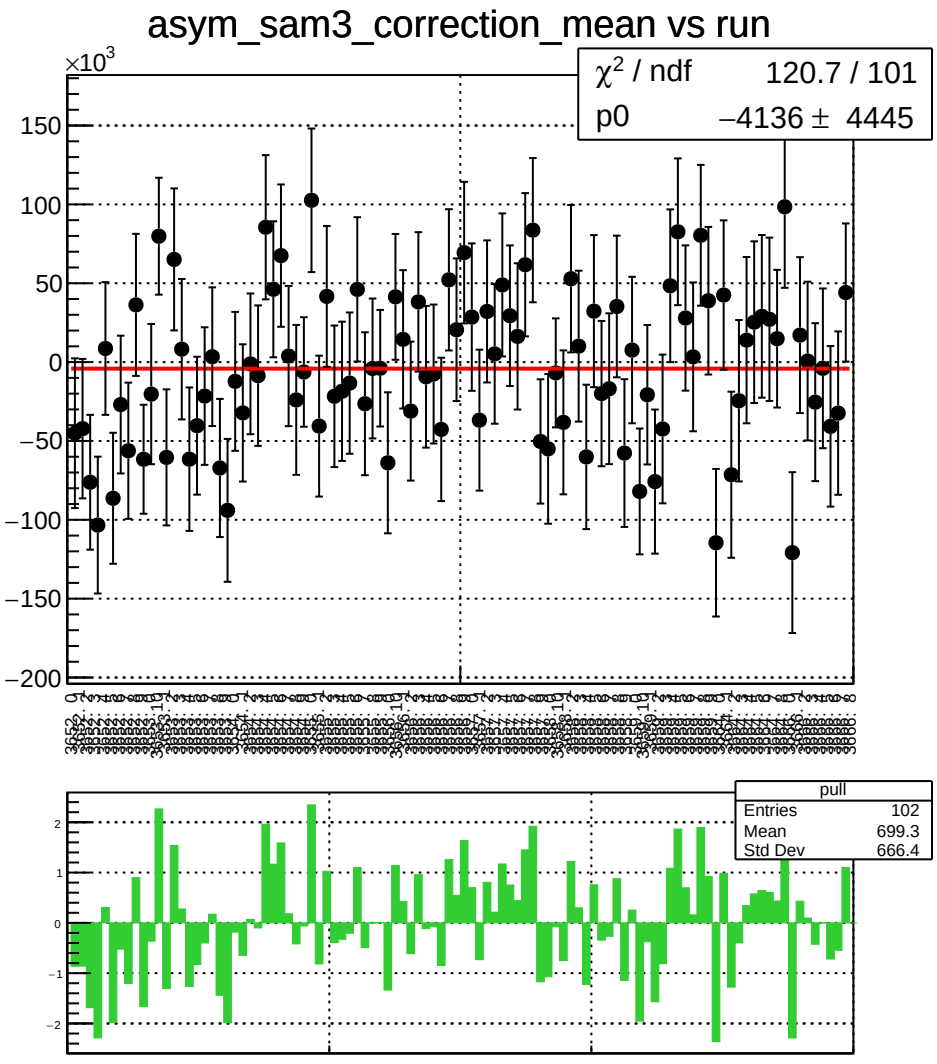

pull1D
Entries 102
Mean 0.0007557
Std Dev 1.127
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

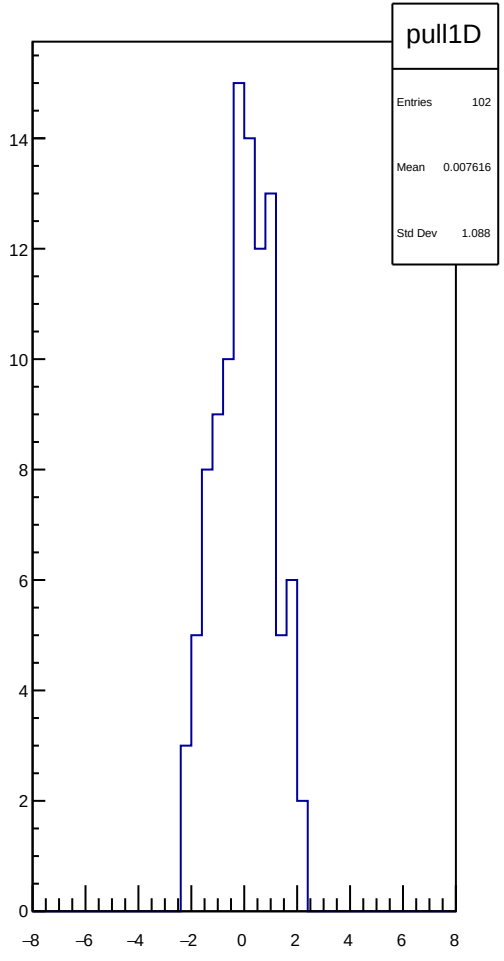

asym_sam2_correction_rms vs run
χ² / ndf 1291 / 101
p0 7789 ± 5.622
8400
8200
8000
7800
7600
7400

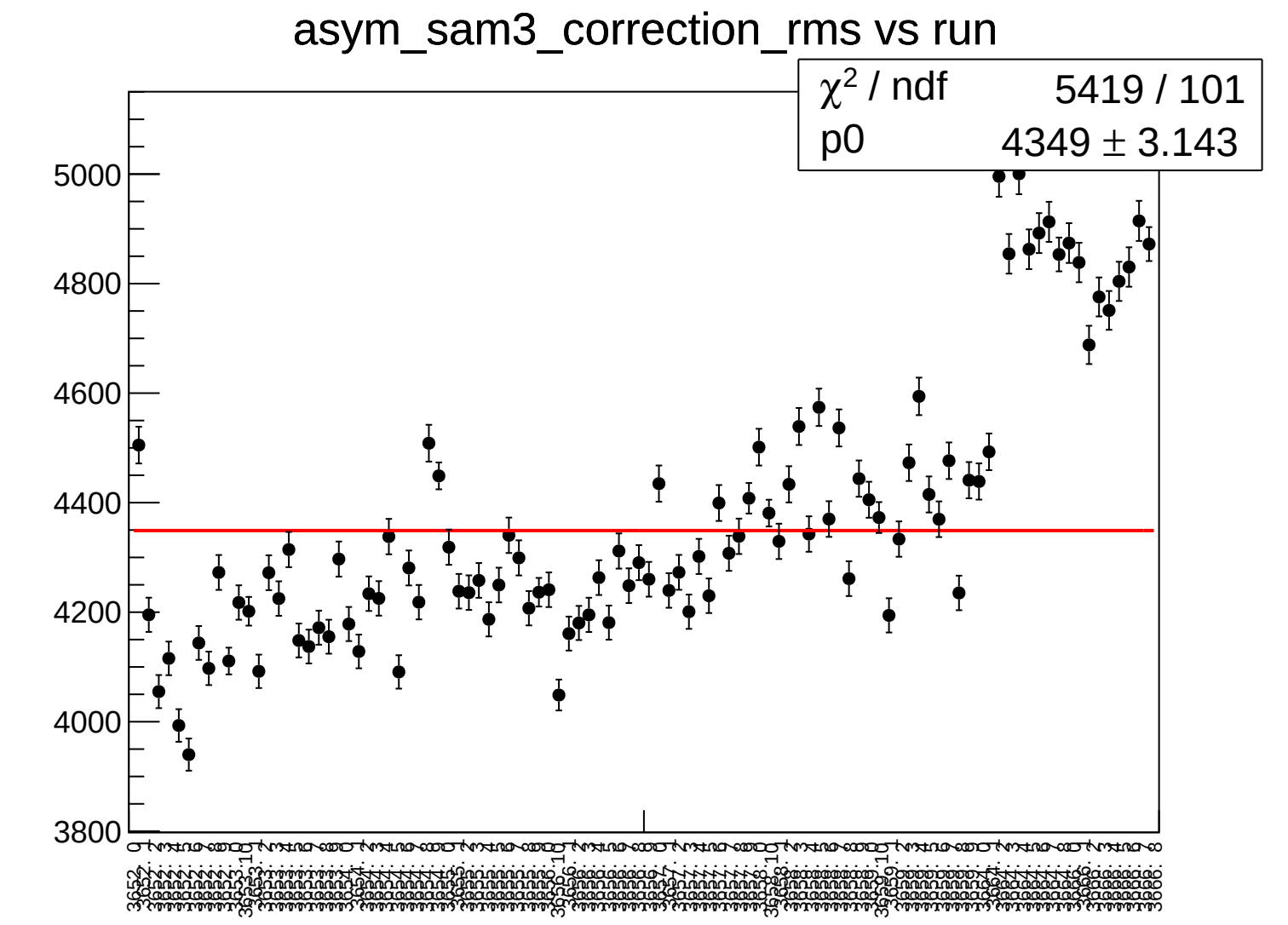

reg_asym_sam3_mean vs run
χ² / ndf 108.5 / 101
p0 −135 ± 402.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 102
Mean 35.57
Std Dev 91.52
2
1
0
−1
−2

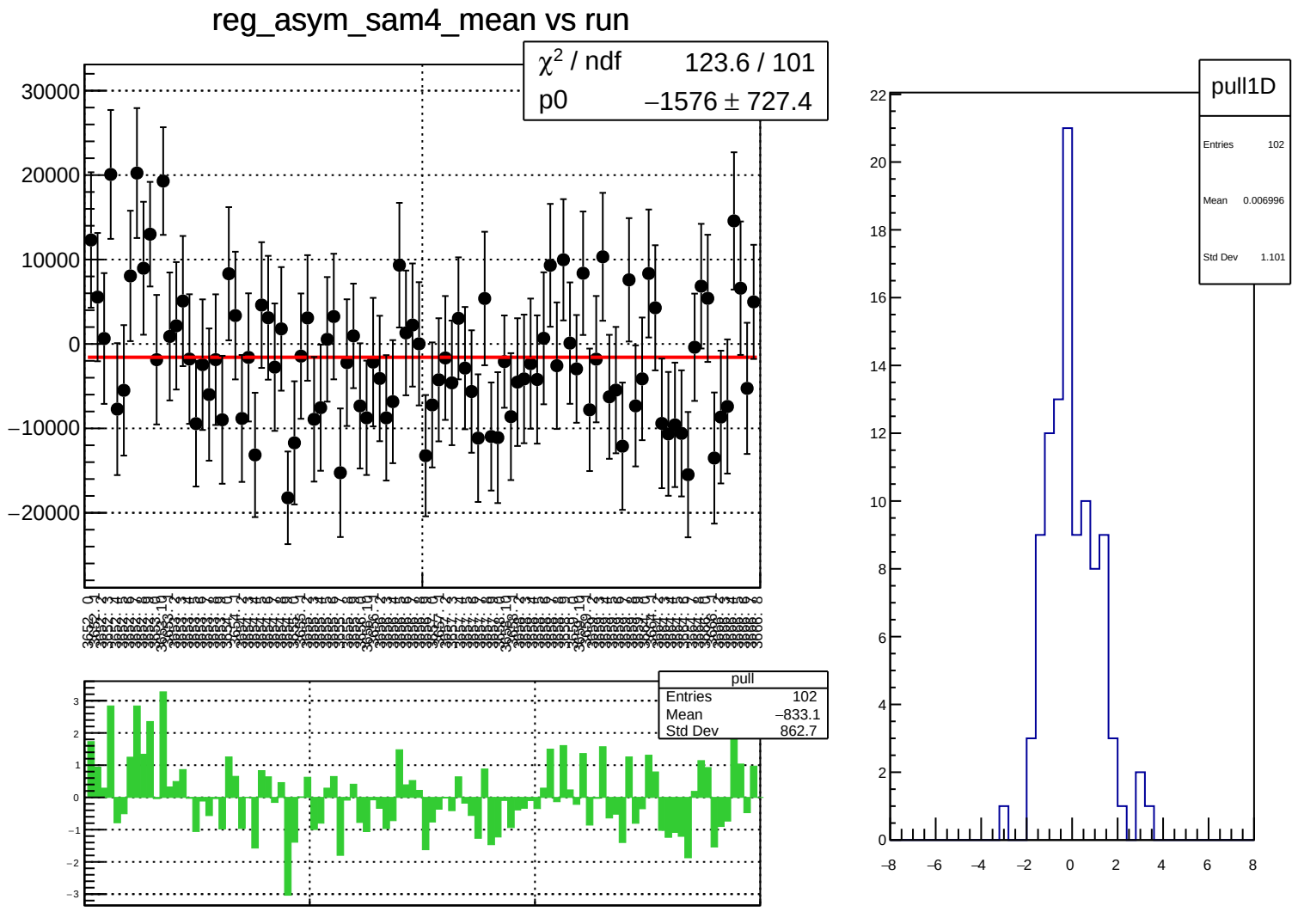

pull1D
Entries 102
Mean −0.00972
Std Dev 1.031
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

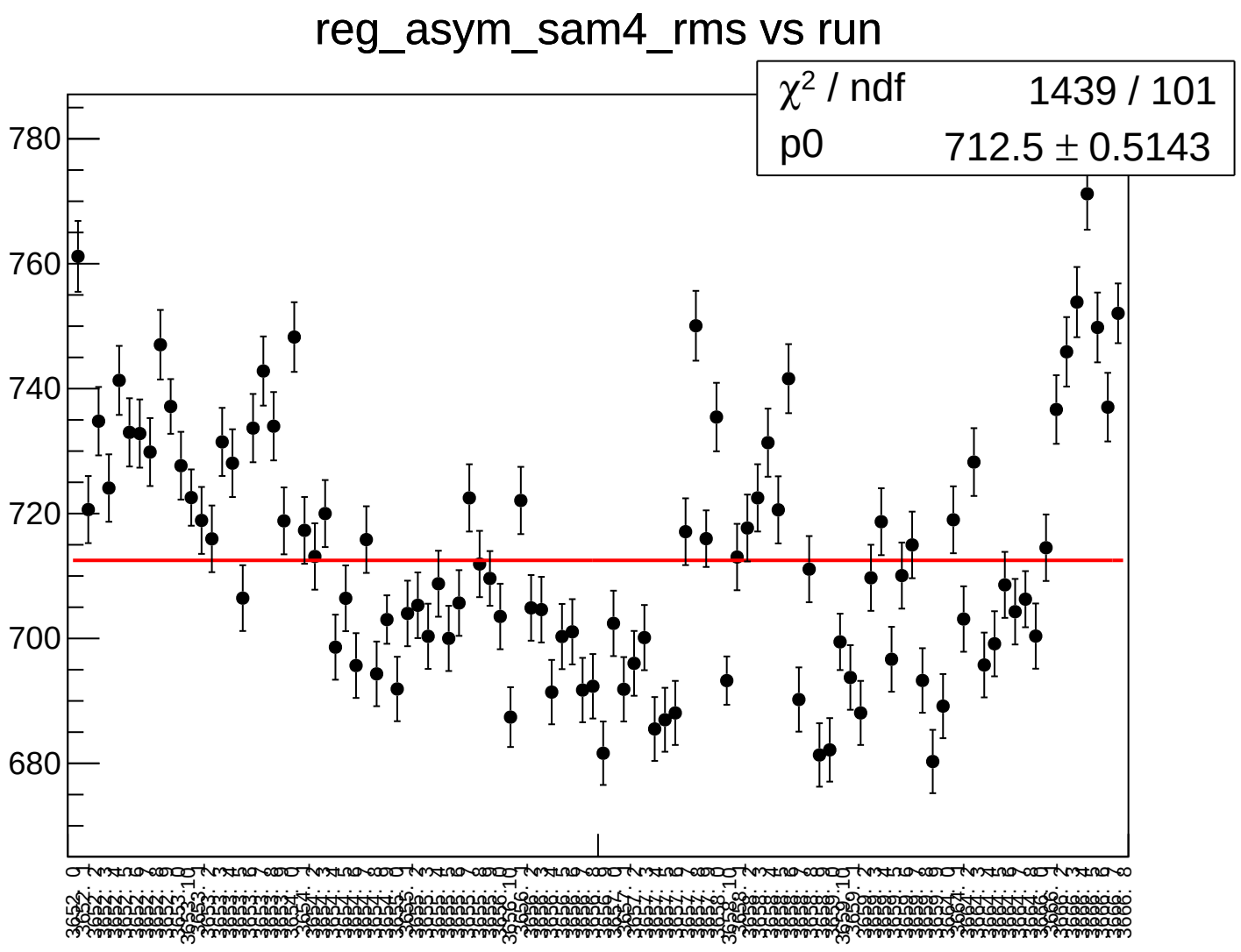

reg_asym_sam3_rms vs run
χ² / ndf 5179 / 101
p0 393.5 ± 0.2843
700
650
600
550
500
450
400
350

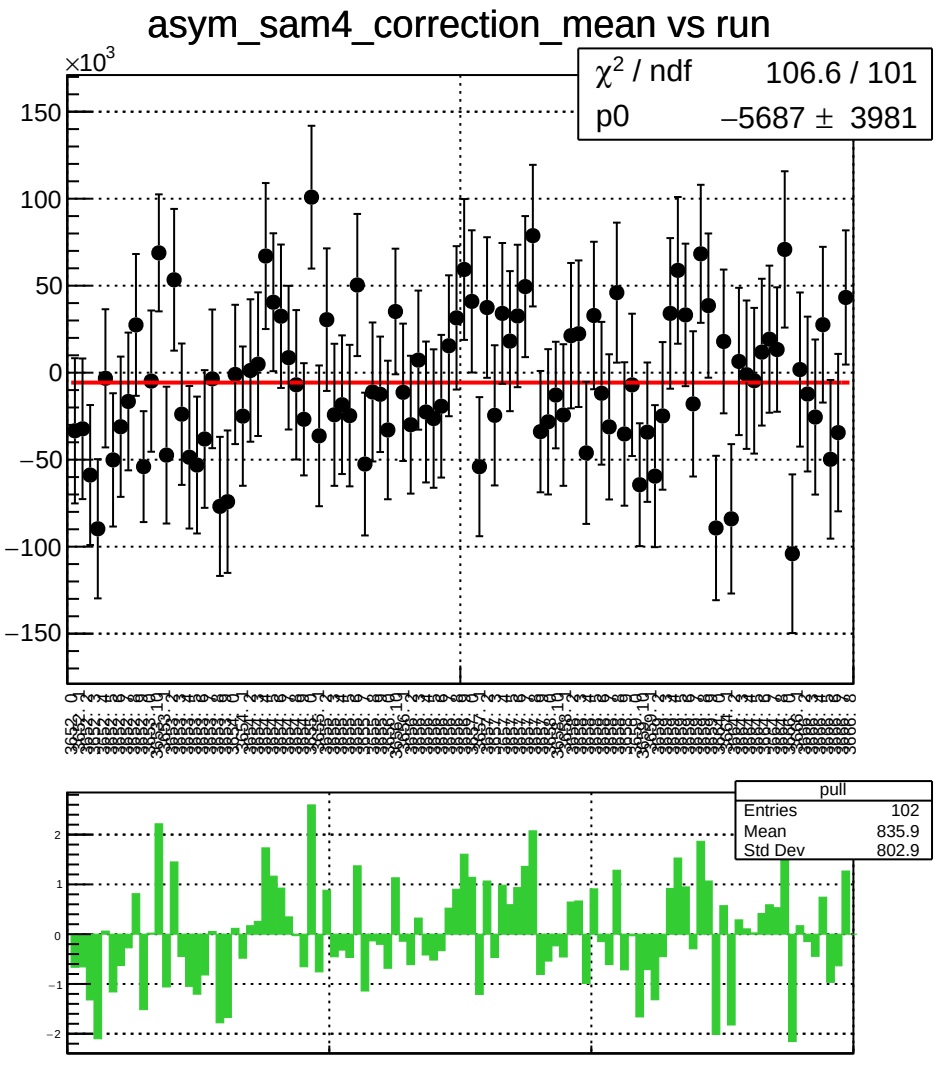

asym_sam3_correction_mean vs run
×10^3
χ^2 / ndf 120.7 / 101
p0 −4136 ± 4445
150
100
50
0
−50
−100
−150
−200
pull
Entries 102
Mean 699.3
Std Dev 666.4
2
1
0
−1
−2

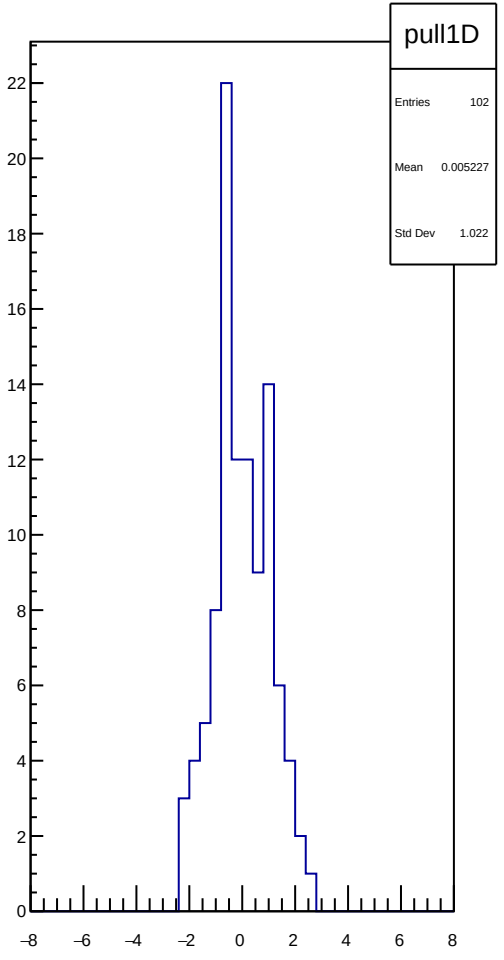

pull1D
Entries 102
Mean 0.007616
Std Dev 1.088
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

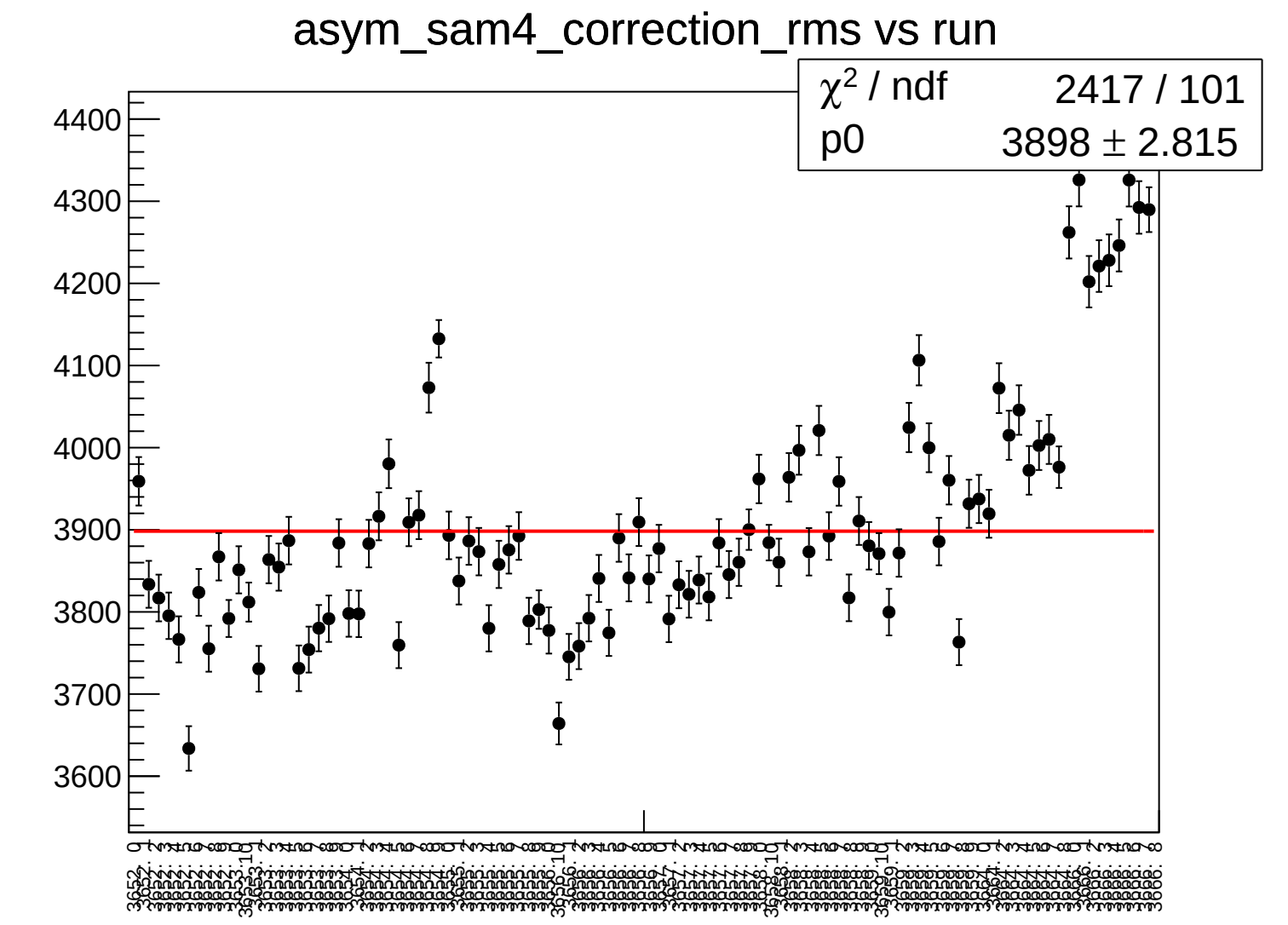

asym_sam3_correction_rms vs run
χ² / ndf 5419 / 101
p0 4349 ± 3.143
5000
4800
4600
4400
4200
4000
3800

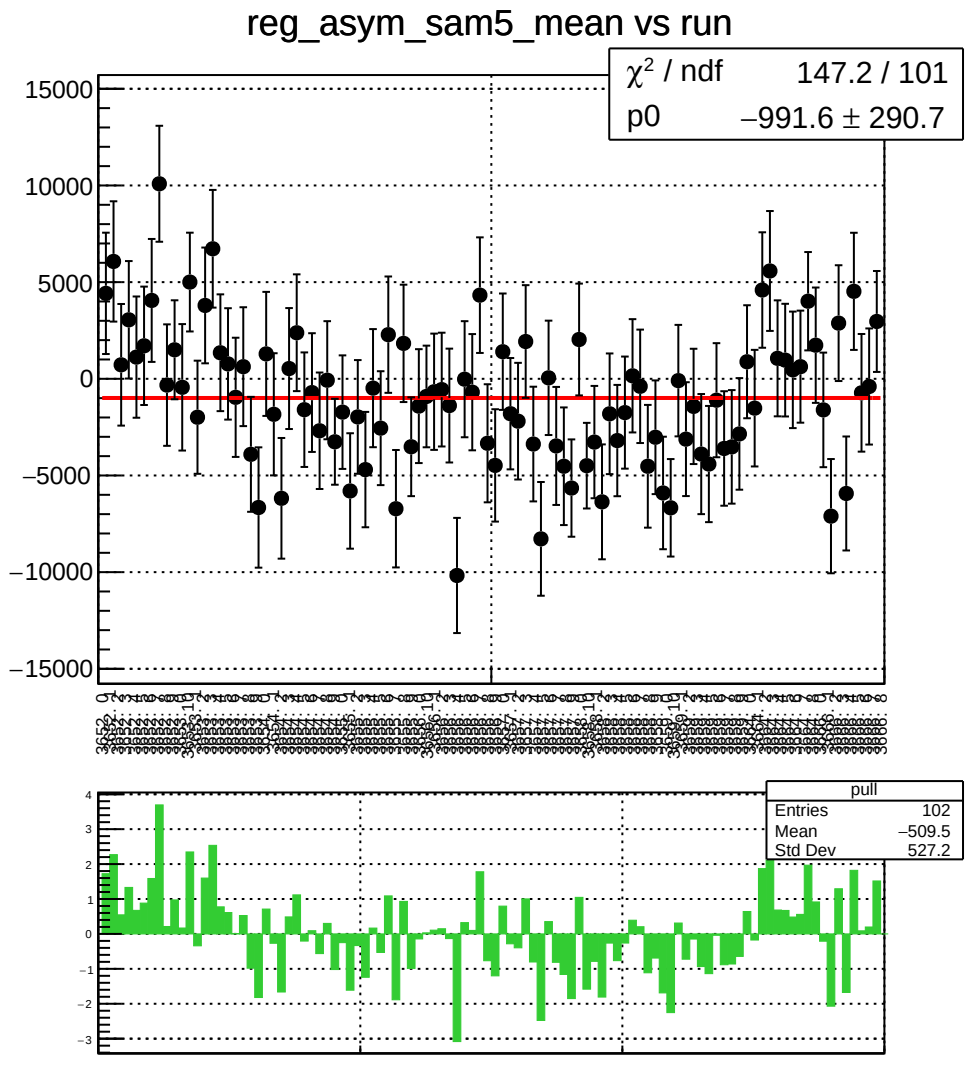

reg_asym_sam4_mean vs run
χ² / ndf 123.6 / 101
p0 −1576 ± 727.4
30000
20000
10000
0
−10000
−20000
pull
Entries 102
Mean −833.1
Std Dev 862.7
3
2
1
0
−1
−2
−3
pull1D
Entries 102
Mean 0.006996
Std Dev 1.101
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

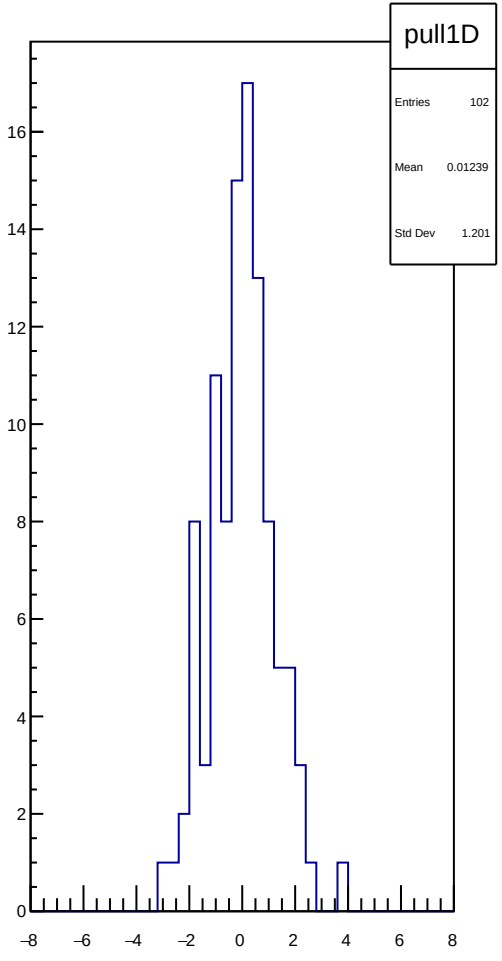

reg_asym_sam4_rms vs run
χ^2 / ndf 1439 / 101
p0 712.5 ± 0.5143
780
760
740
720
700
680

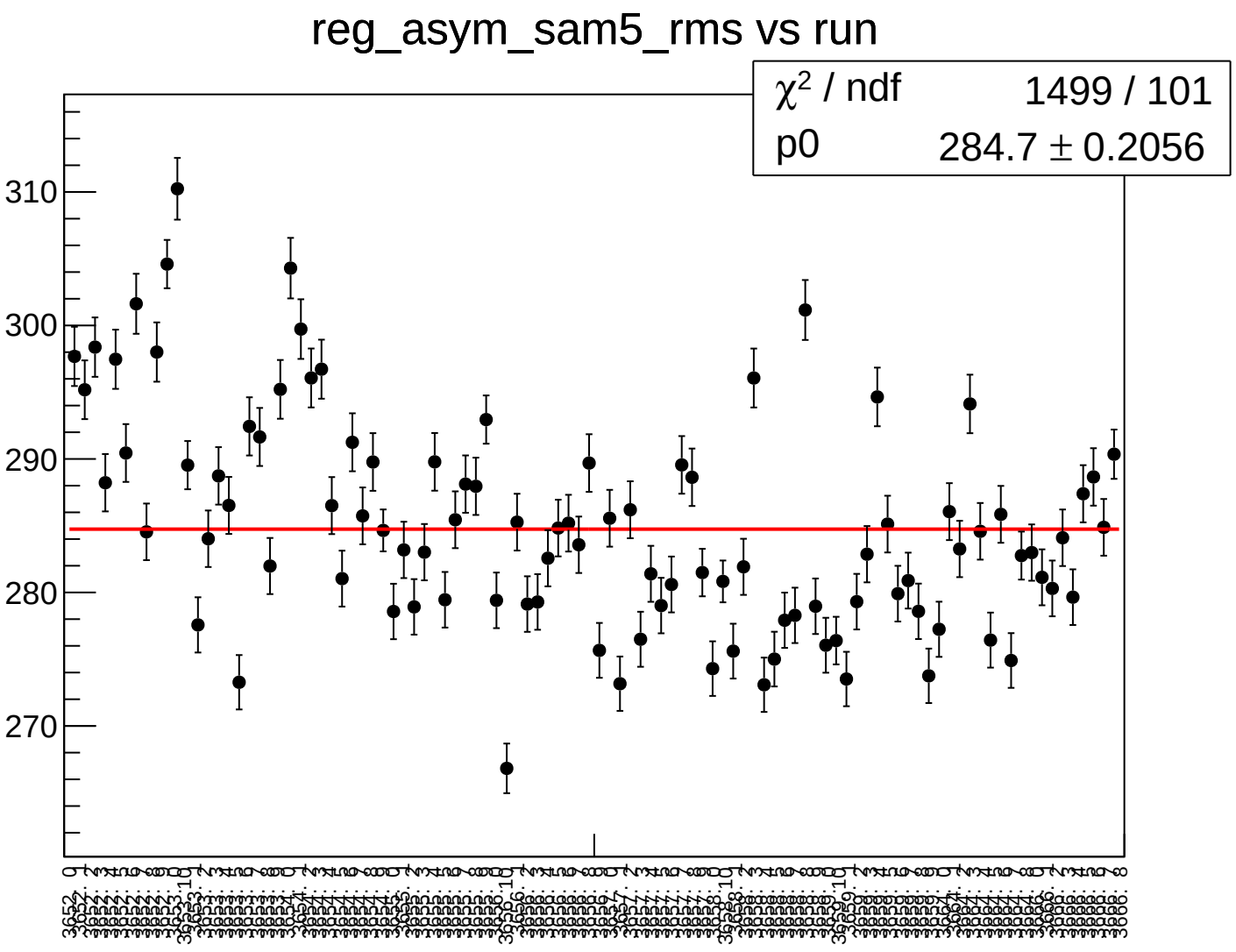

asym_sam4_correction_mean vs run
×10^3
χ² / ndf 106.6 / 101
p0 −5687 ± 3981
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 835.9
Std Dev 802.9
2
1
0
−1
−2

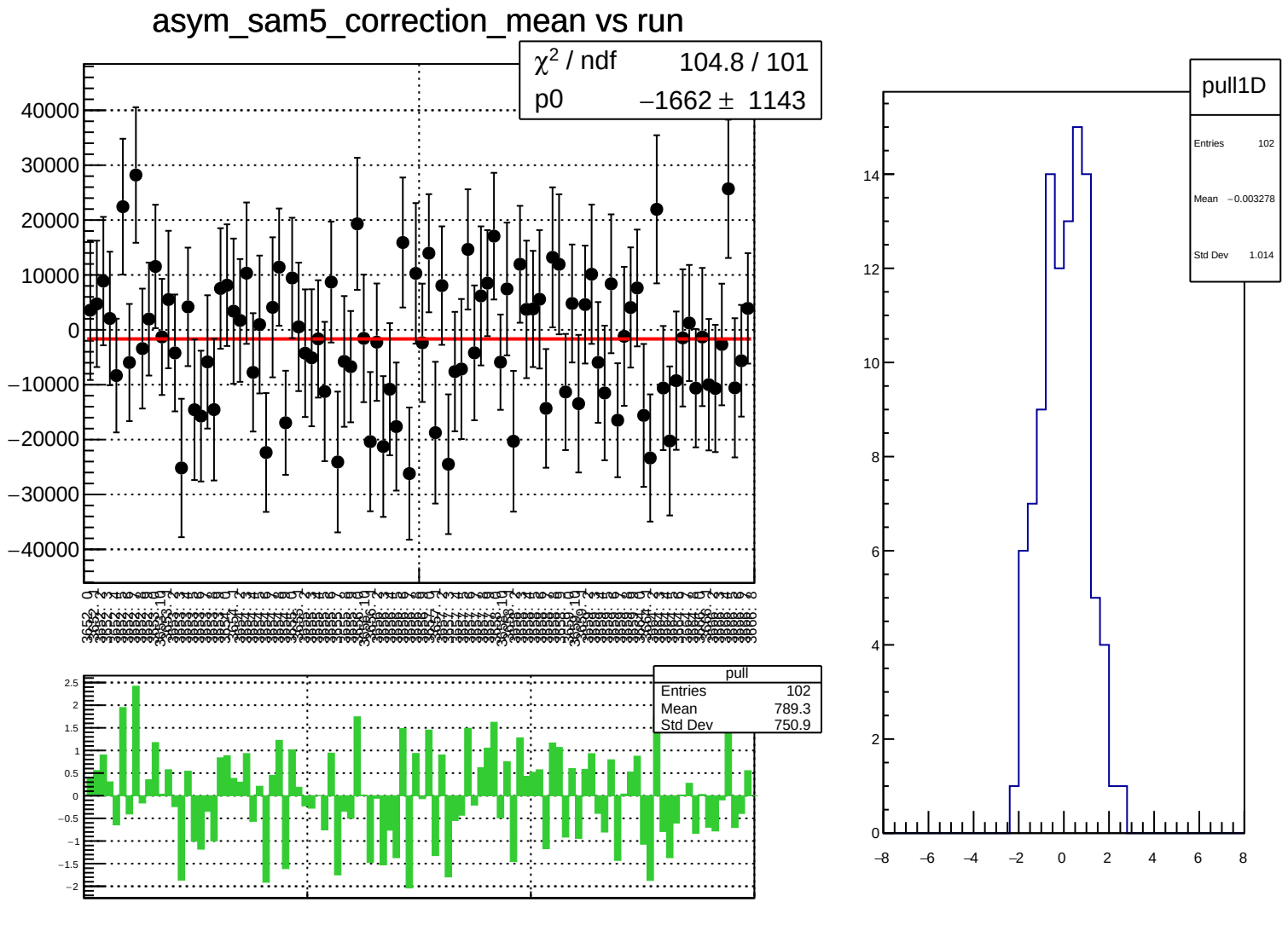

pull1D
Entries 102
Mean 0.005227
Std Dev 1.022
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

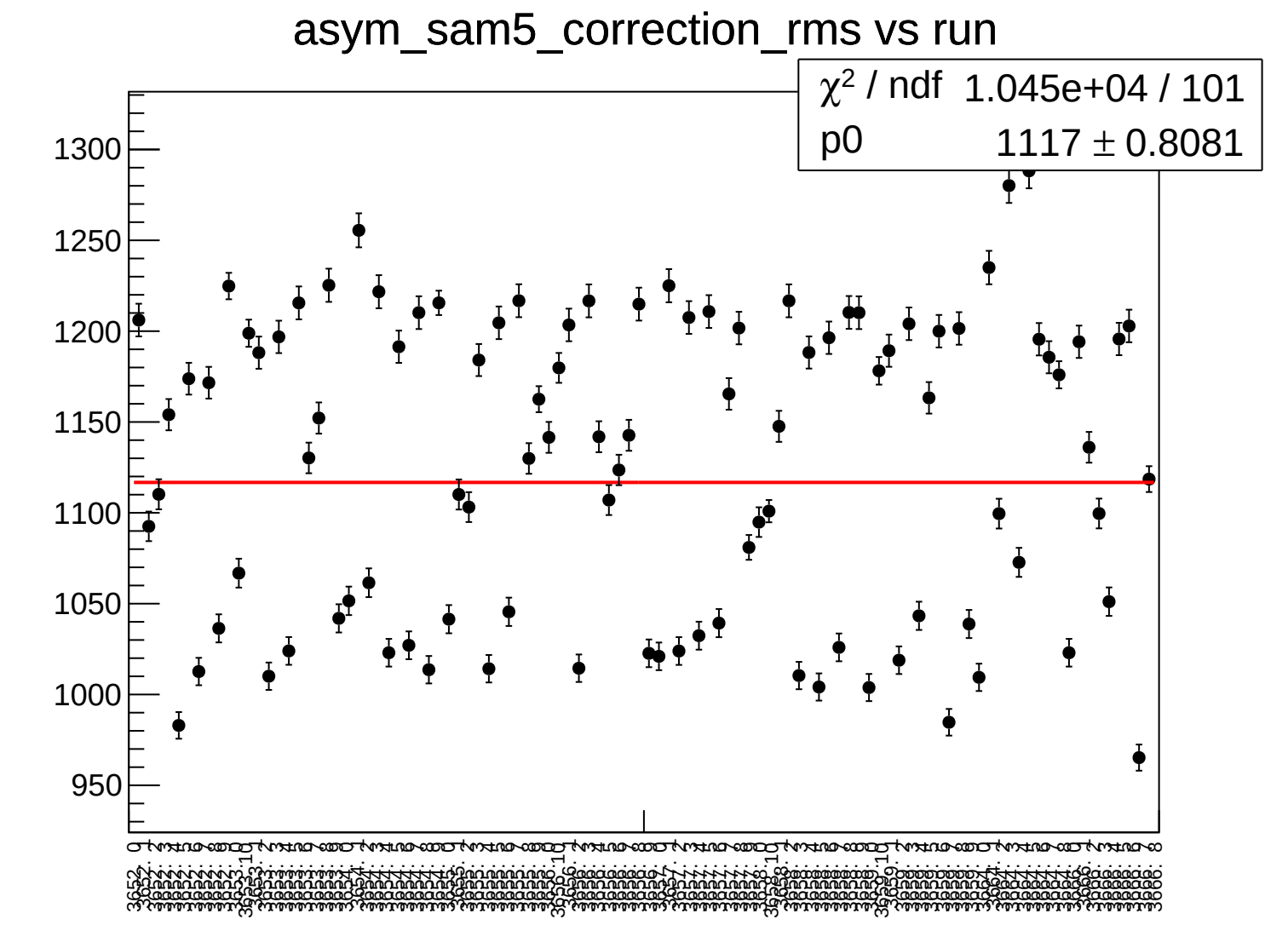

asym_sam4_correction_rms vs run
χ² / ndf 2417 / 101
p0 3898 ± 2.815
4400
4300
4200
4100
4000
3900
3800
3700
3600

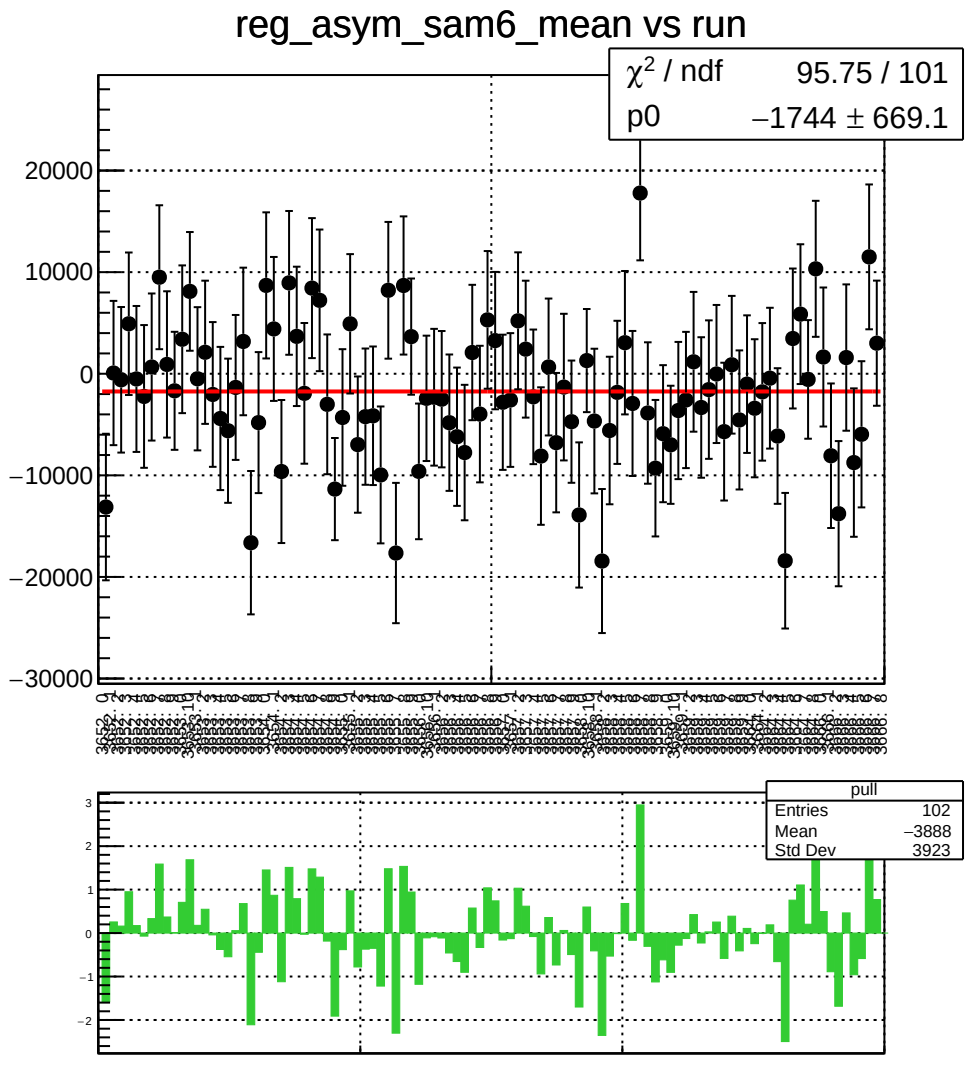

reg_asym_sam5_mean vs run
χ² / ndf 147.2 / 101
p0 −991.6 ± 290.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 102
Mean −509.5
Std Dev 527.2
4
3
2
1
0
−1
−2
−3

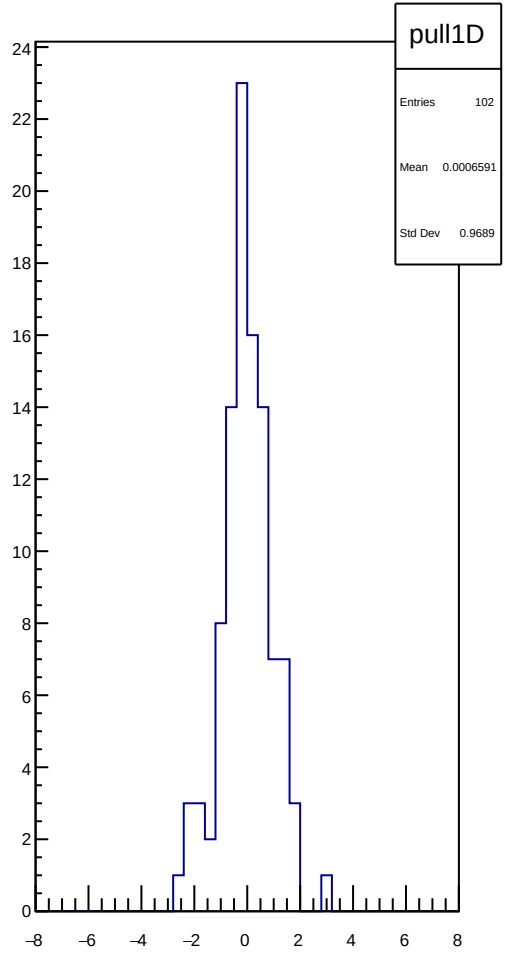

pull1D
Entries 102
Mean 0.01239
Std Dev 1.201
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

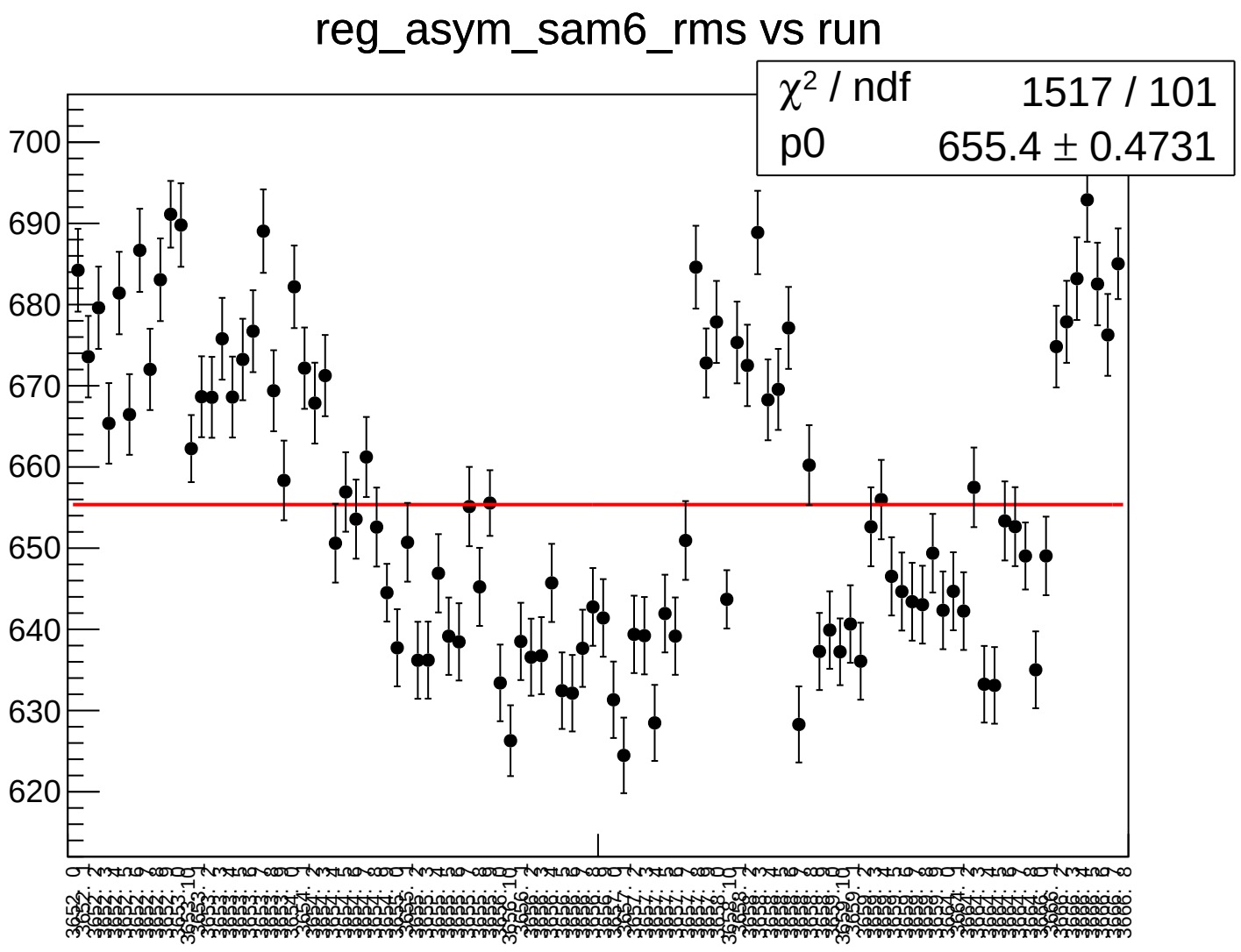

reg_asym_sam5_rms vs run
χ^2 / ndf 1499 / 101
p0 284.7 ± 0.2056
310
300
290
280
270

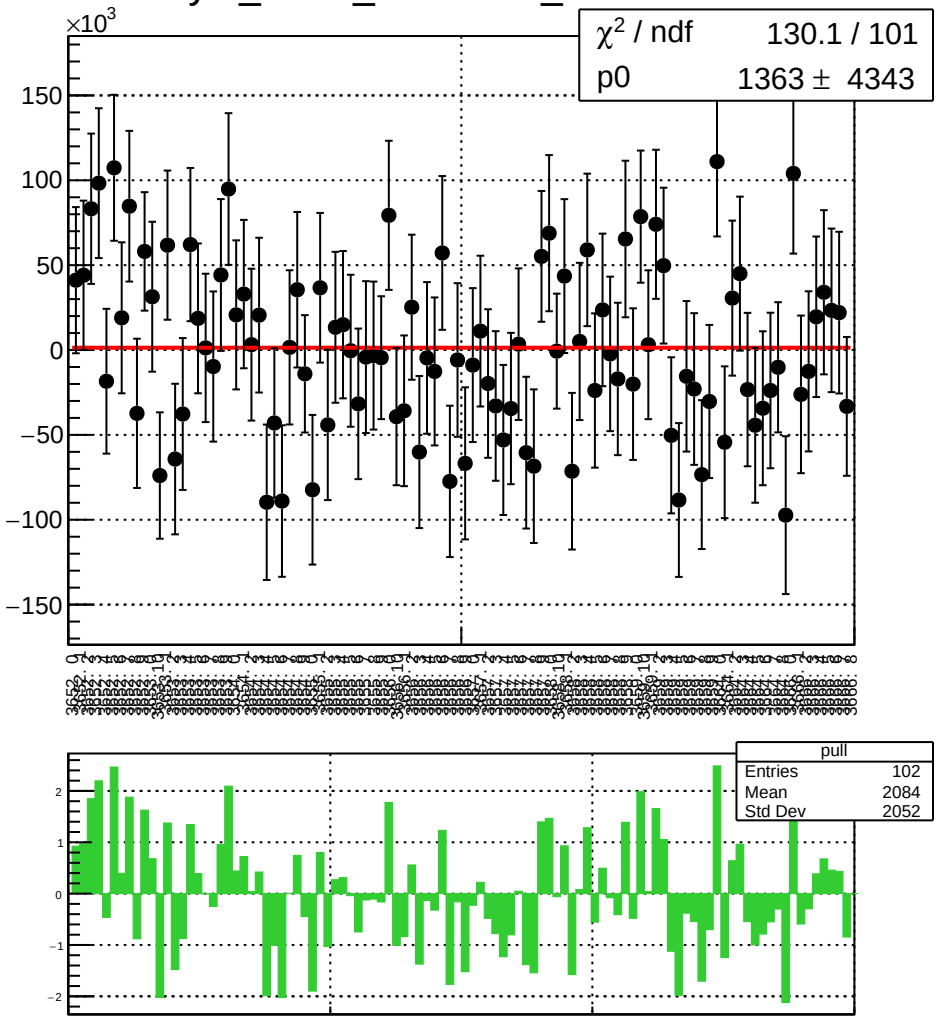

asym_sam5_correction_mean vs run
χ² / ndf 104.8 / 101
p0 −1662 ± 1143
40000
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 102
Mean 789.3
Std Dev 750.9
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean −0.003278
Std Dev 1.014
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

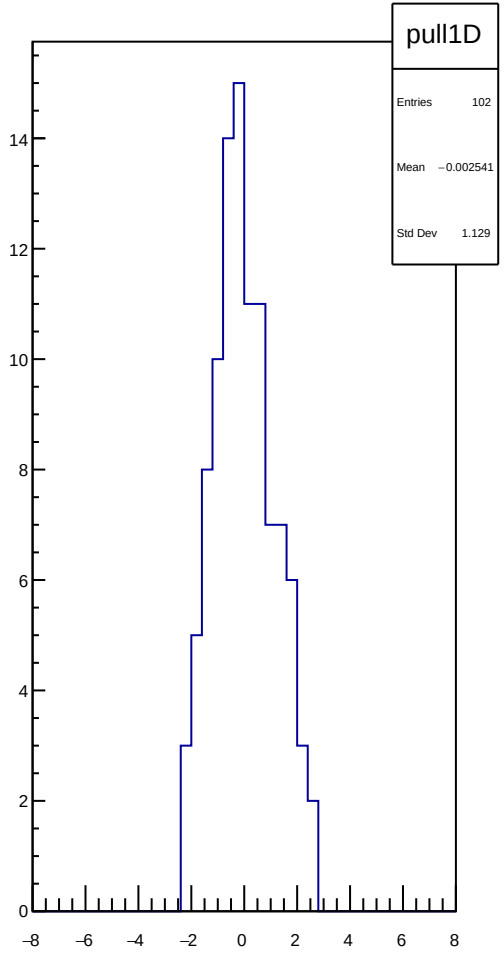

asym_sam5_correction_rms vs run
χ² / ndf 1.045e+04 / 101
p0 1117 ± 0.8081
1300
1250
1200
1150
1100
1050
1000
950

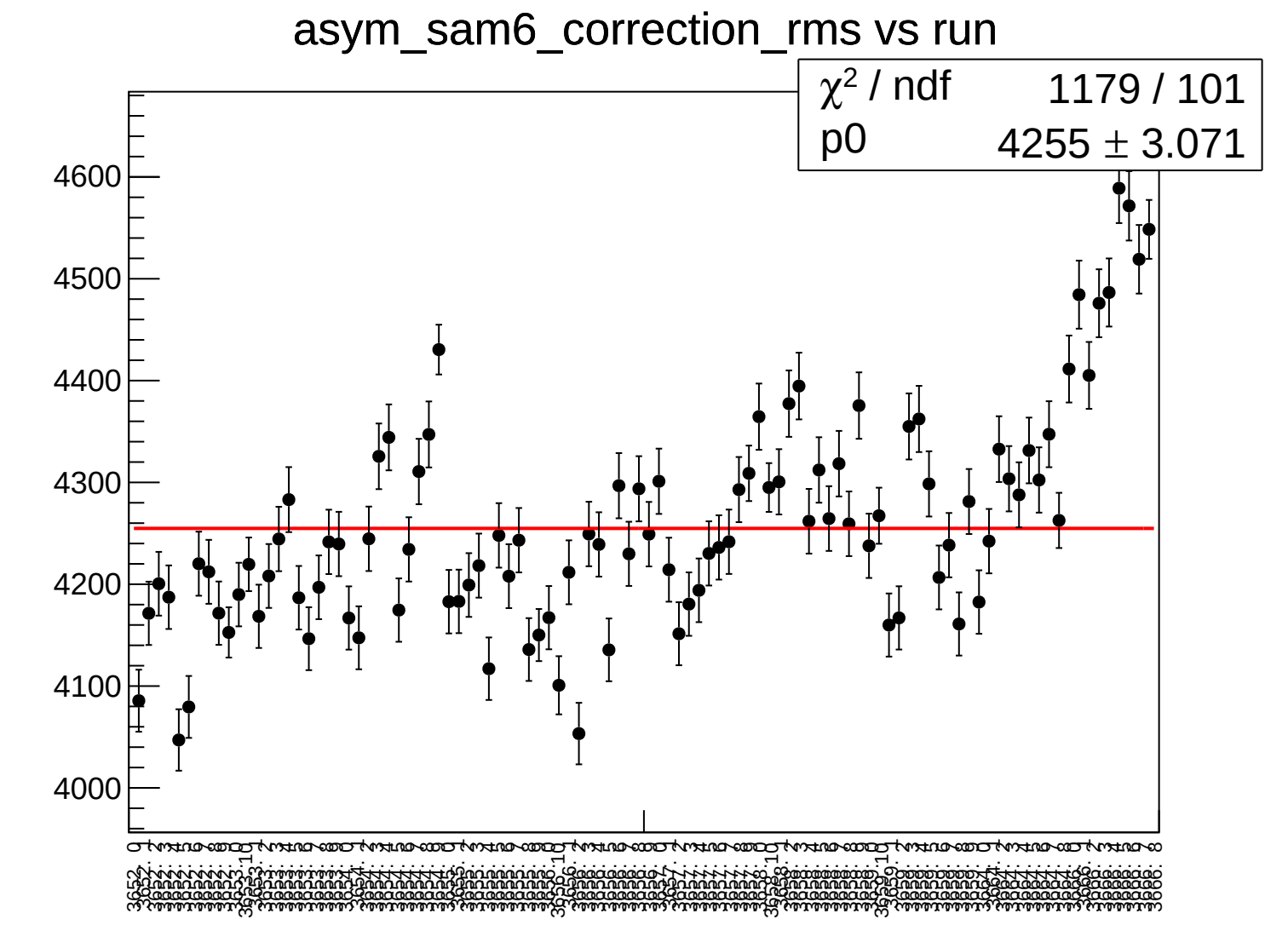

reg_asym_sam6_mean vs run
χ² / ndf 95.75 / 101
p0 −1744 ± 669.1
20000
10000
0
−10000
−20000
−30000
pull
Entries 102
Mean −3888
Std Dev 3923
3
2
1
0
−1
−2

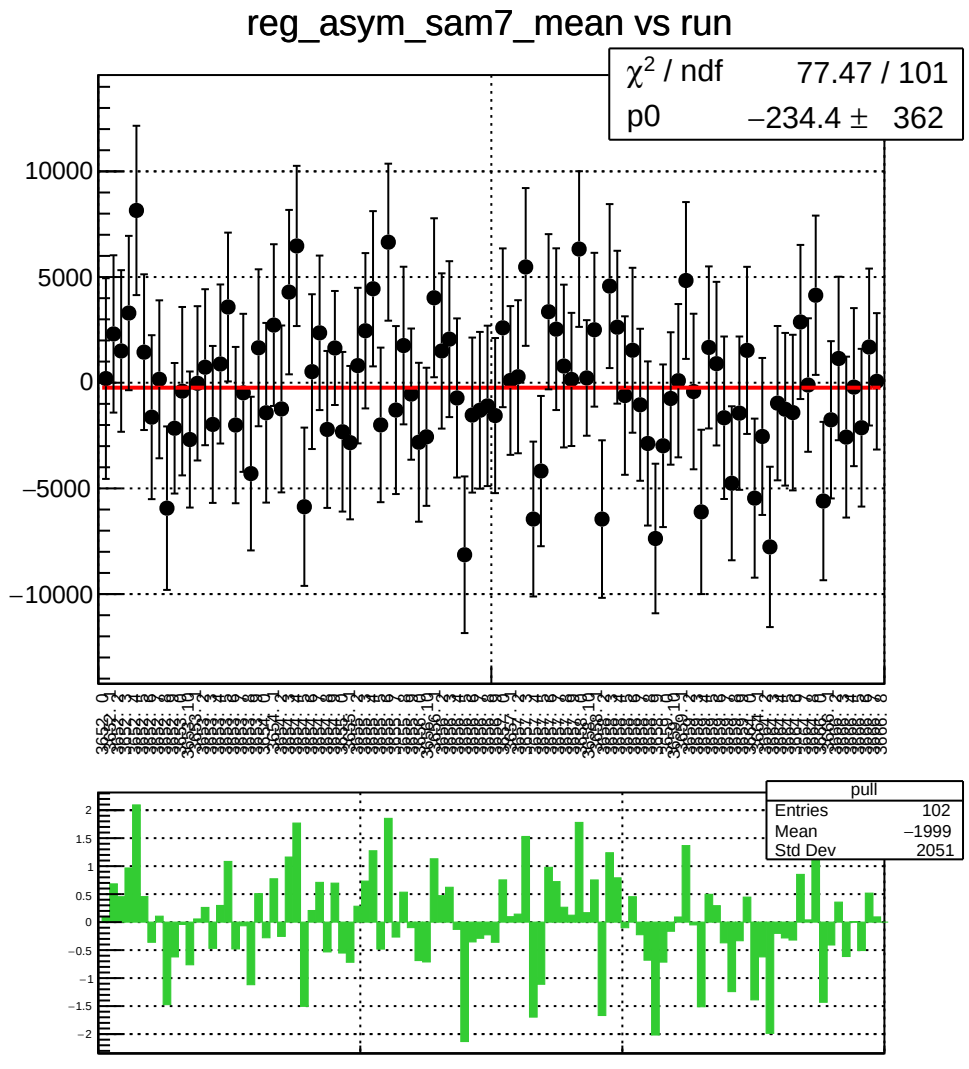

pull1D
Entries 102
Mean 0.0006591
Std Dev 0.9689
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

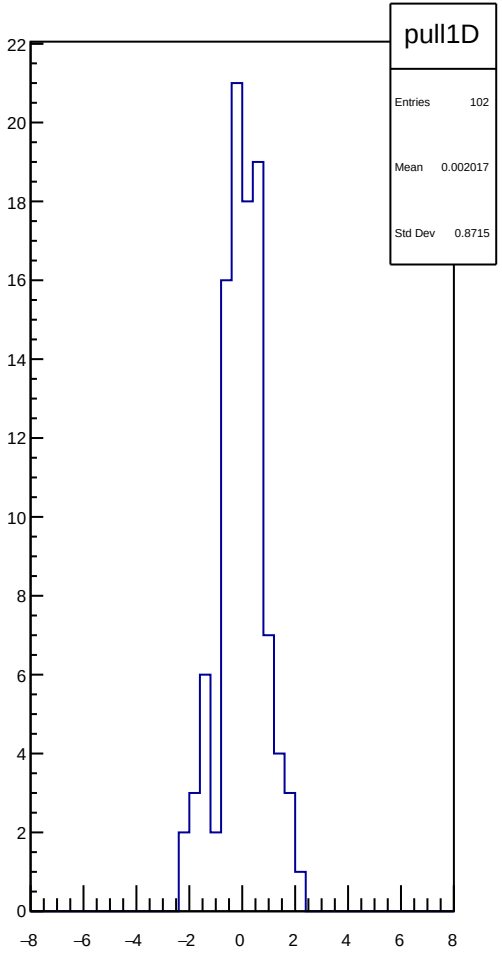

reg_asym_sam6_rms vs run
χ² / ndf 1517 / 101
p0 655.4 ± 0.4731
700
690
680
670
660
650
640
630
620

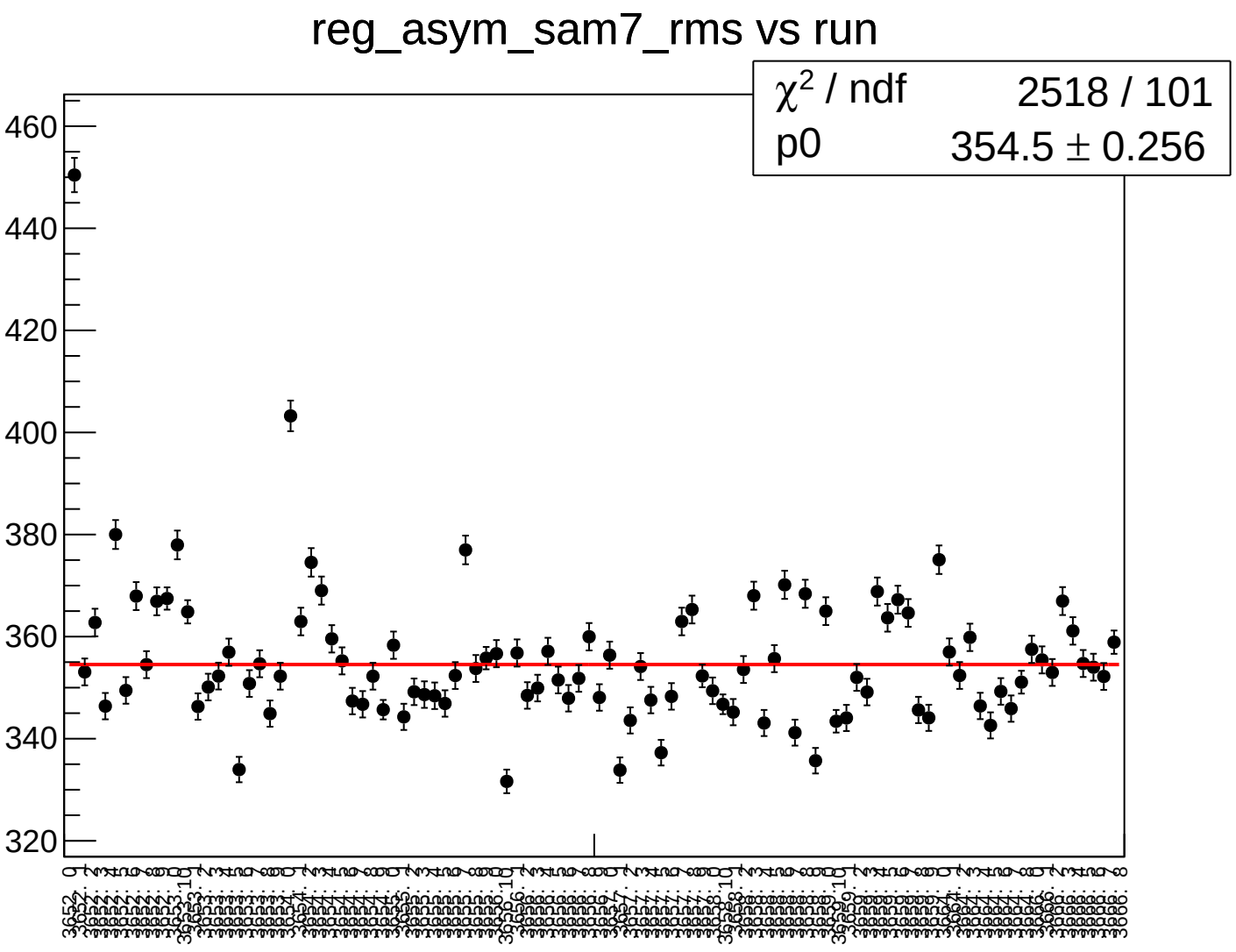

asym_sam6_correction_mean vs run
×10^3
χ^2 / ndf 130.1 / 101
p0 1363 ± 4343
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 2084
Std Dev 2052
2
1
0
−1
−2

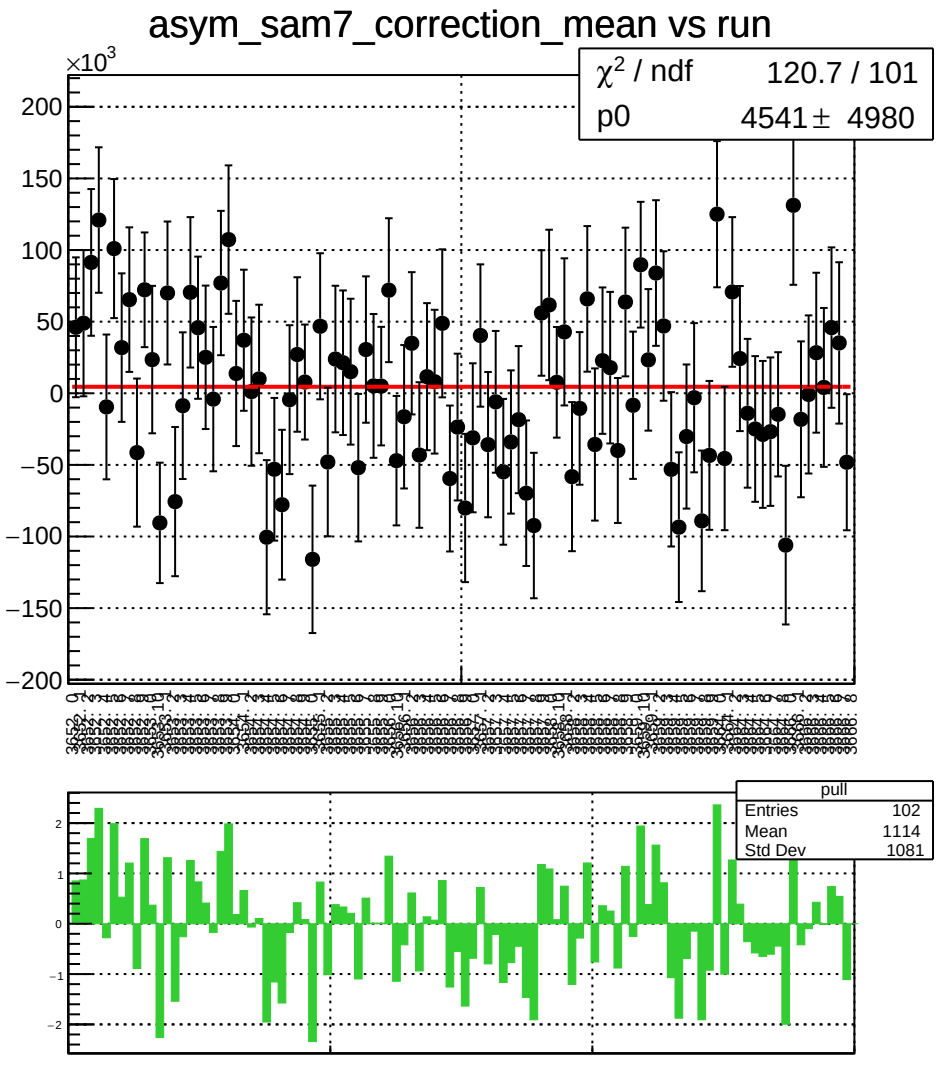

pull1D
Entries 102
Mean −0.002541
Std Dev 1.129
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

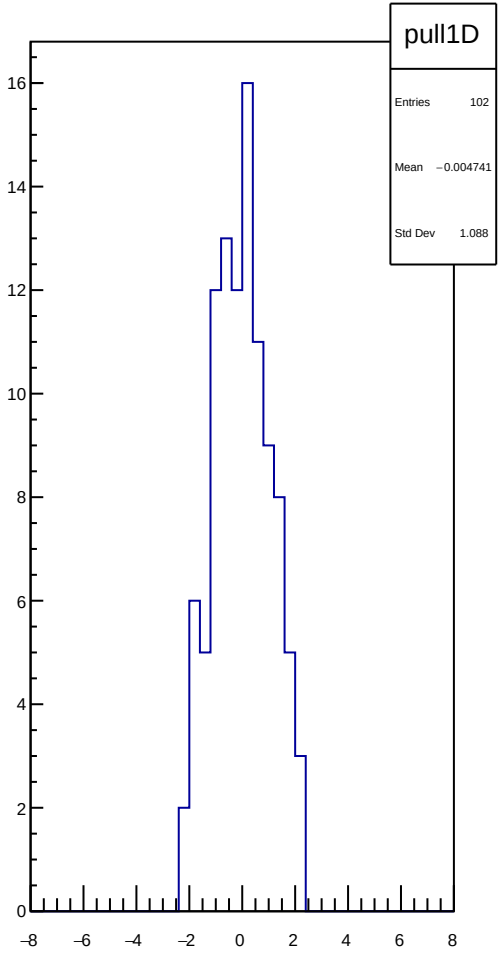

asym_sam6_correction_rms vs run
χ² / ndf 1179 / 101
p0 4255 ± 3.071
4600
4500
4400
4300
4200
4100
4000

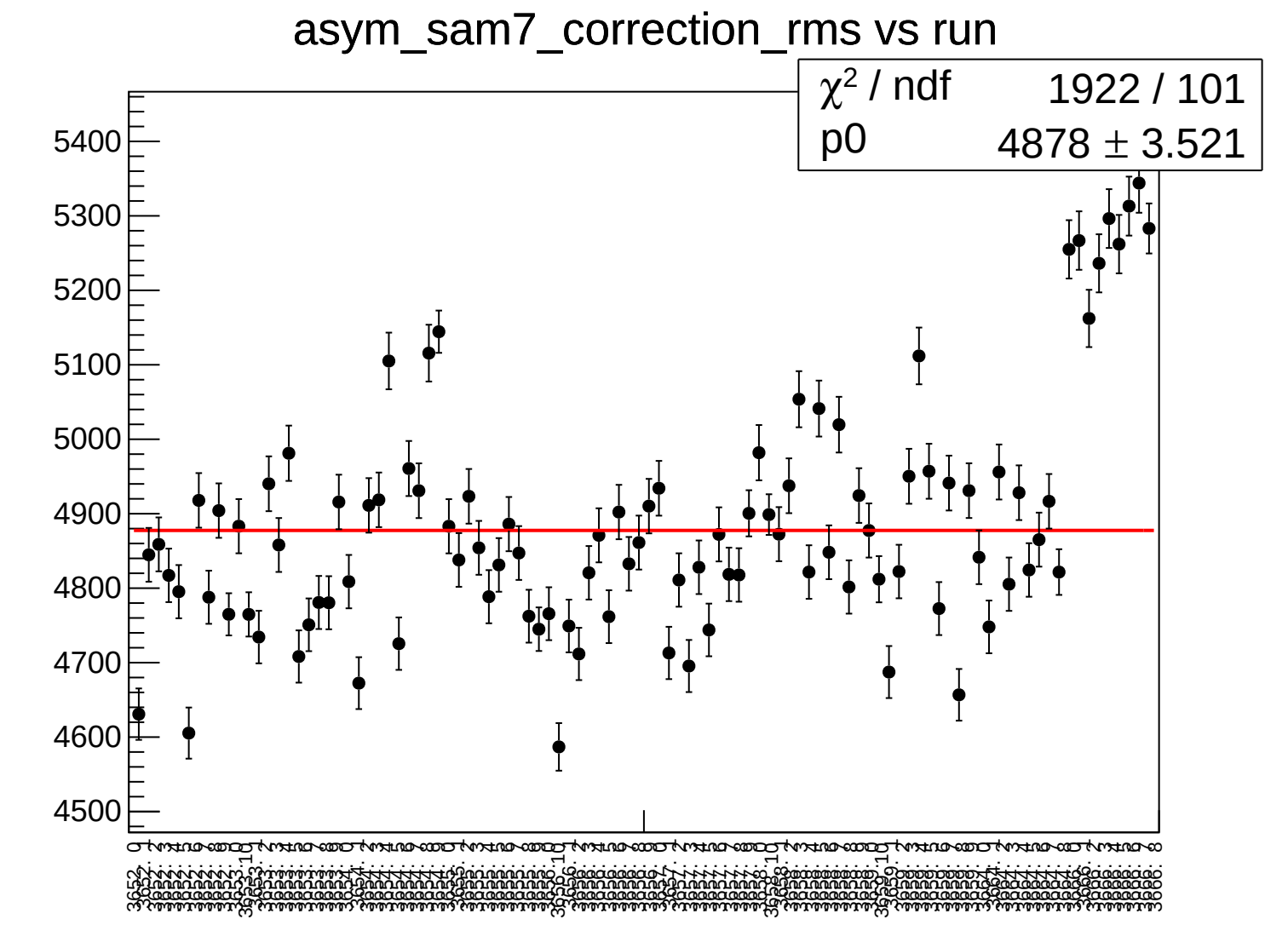

reg_asym_sam7_mean vs run
χ² / ndf 77.47 / 101
p0 −234.4 ± 362
10000
5000
0
−5000
−10000
pull
Entries 102
Mean −1999
Std Dev 2051
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

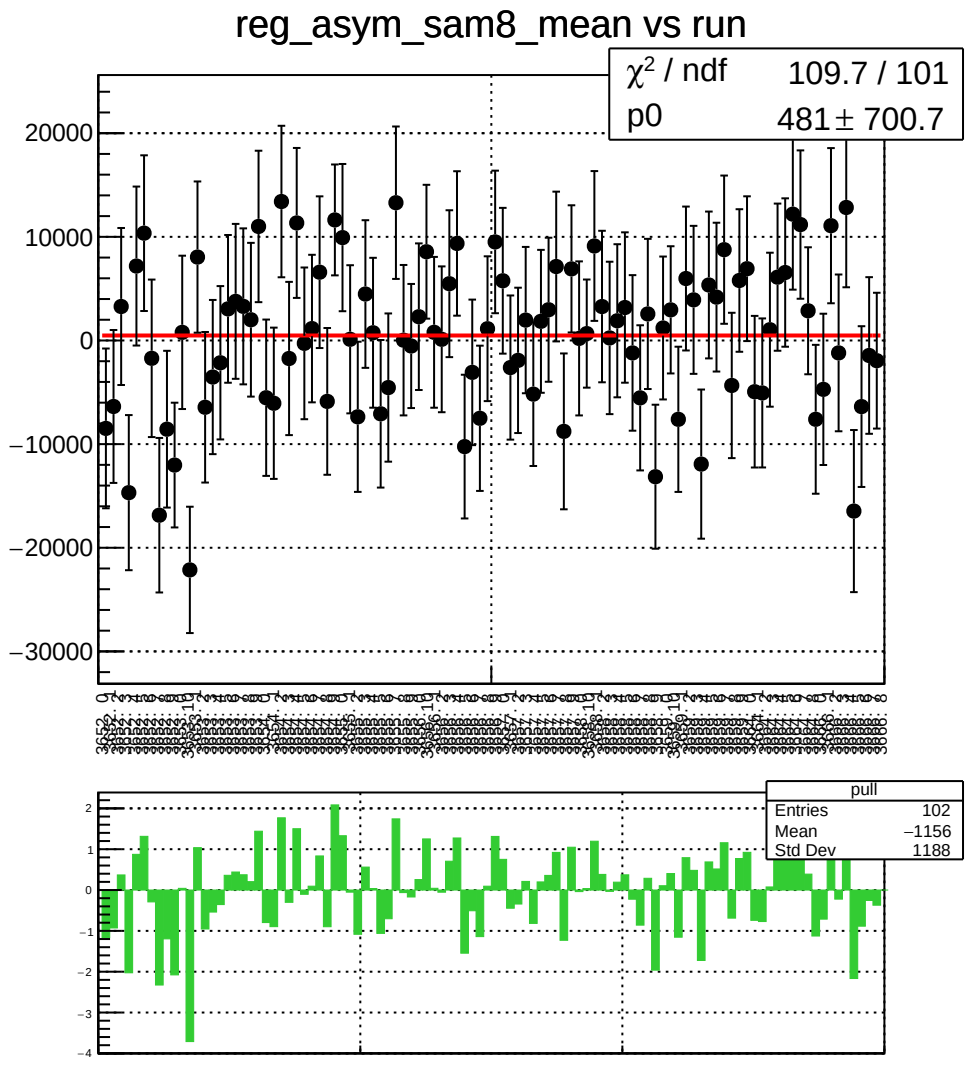

pull1D
Entries 102
Mean 0.002017
Std Dev 0.8715
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

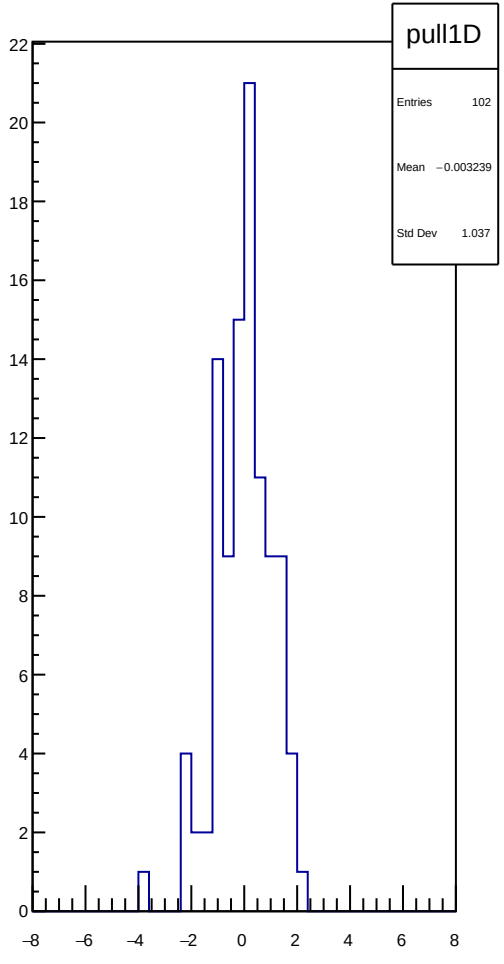

reg_asym_sam7_rms vs run
χ^2 / ndf 2518 / 101
p0 354.5 ± 0.256
460
440
420
400
380
360
340
320

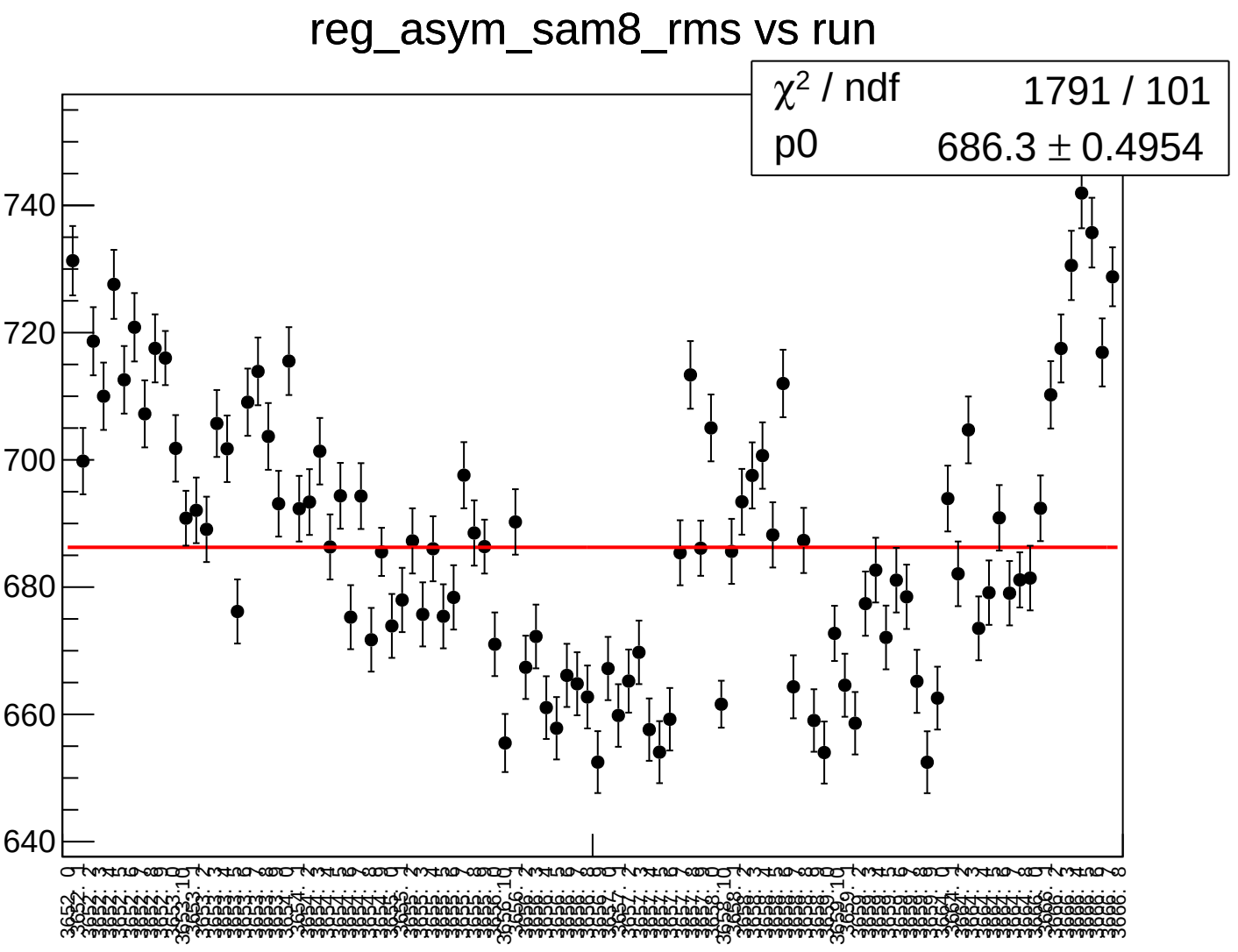

asym_sam7_correction_mean vs run
×10^3
χ^2 / ndf 120.7 / 101
p0 4541 ± 4980
pull
Entries 102
Mean 1114
Std Dev 1081

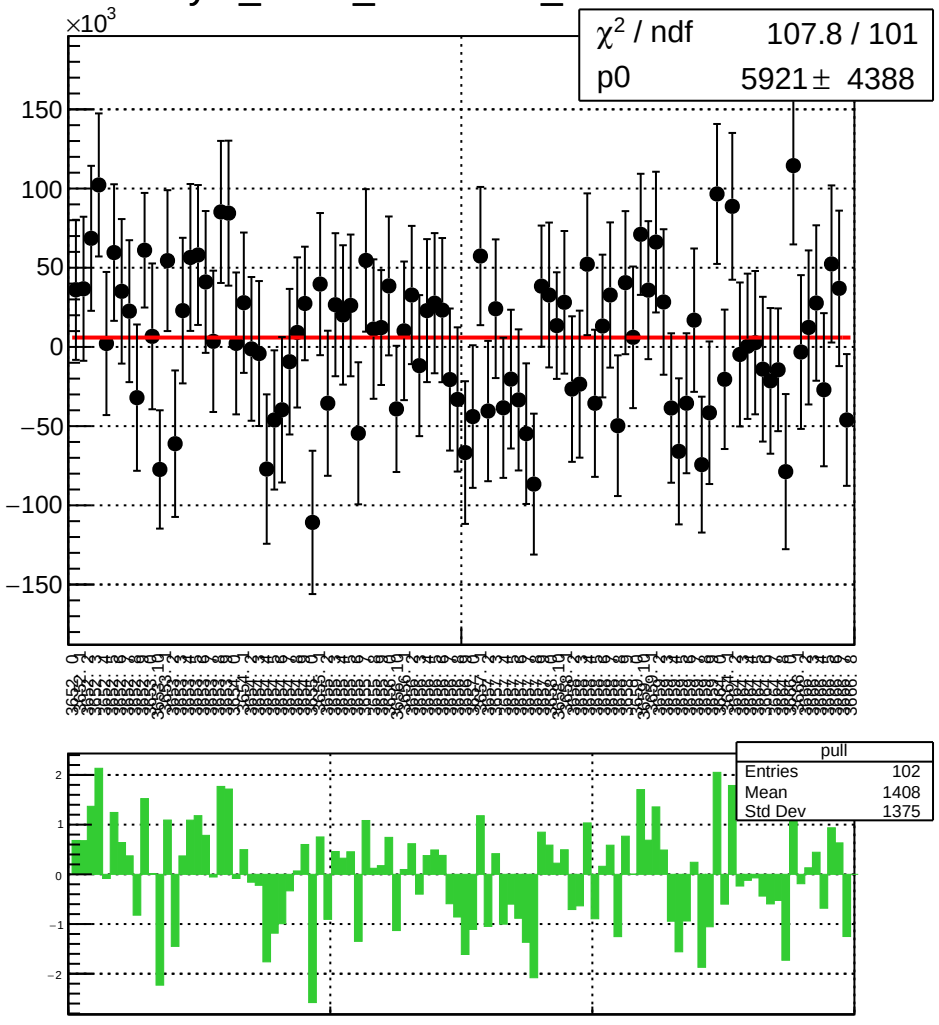

pull1D
Entries 102
Mean −0.004741
Std Dev 1.088

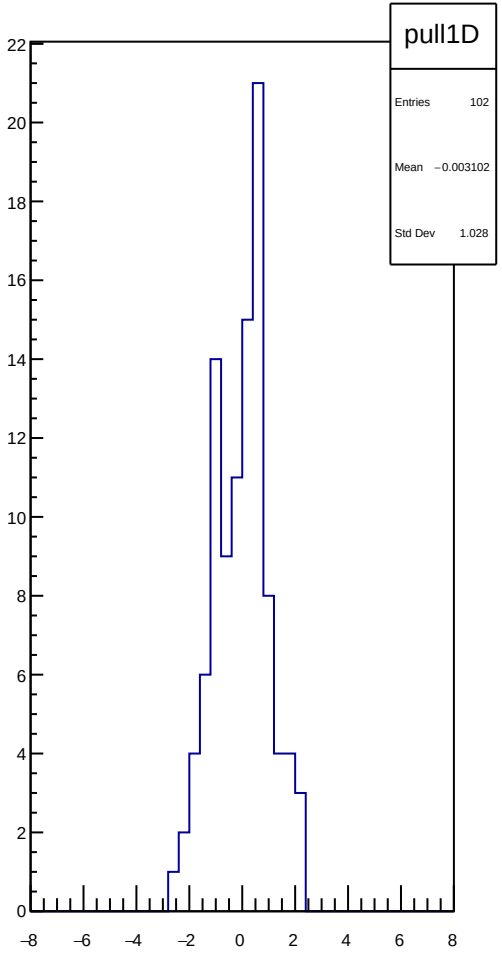

asym_sam7_correction_rms vs run
χ² / ndf 1922 / 101
p0 4878 ± 3.521
5400
5300
5200
5100
5000
4900
4800
4700
4600
4500

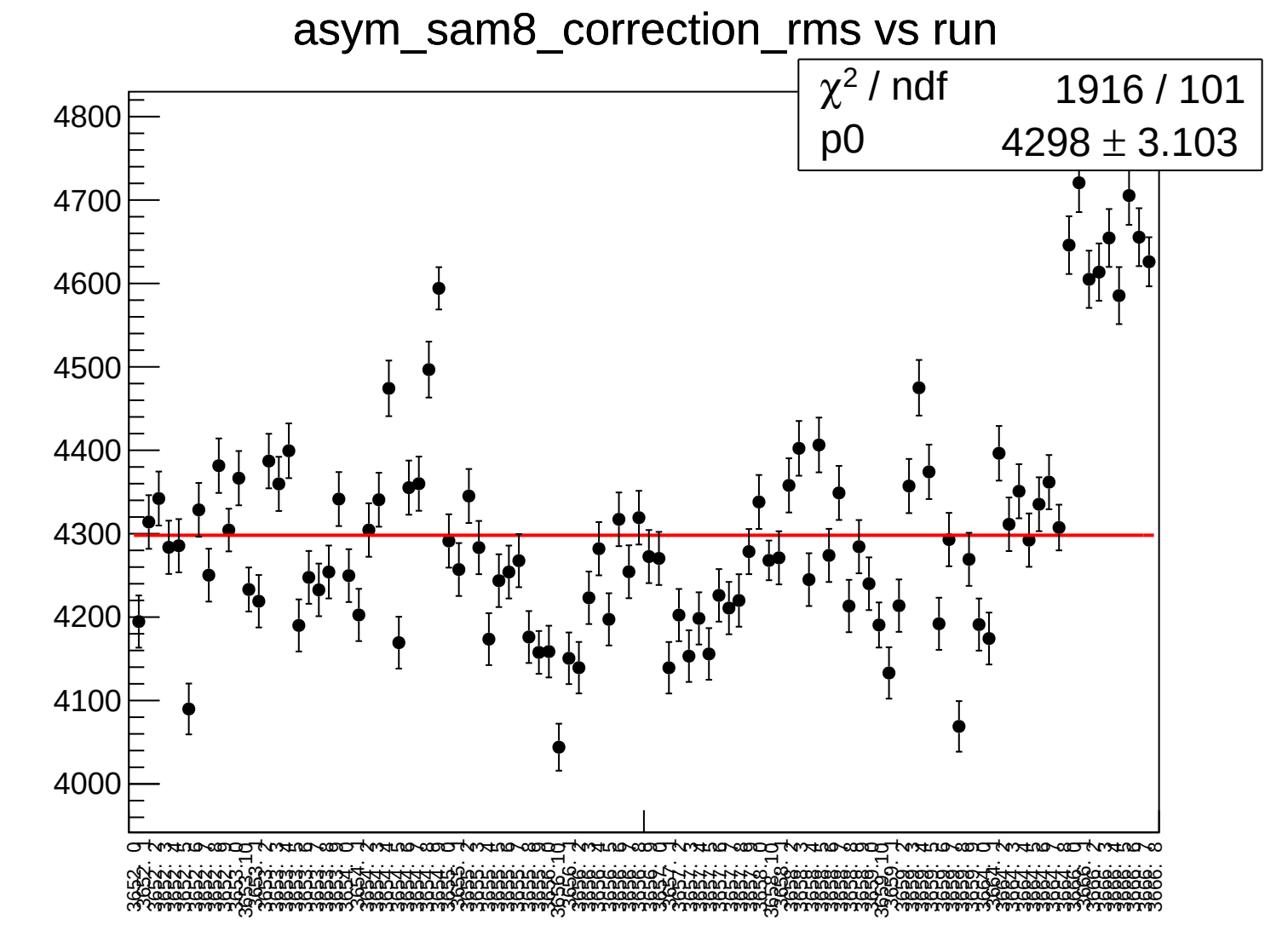

reg_asym_sam8_mean vs run
χ² / ndf 109.7 / 101
p0 481 ± 700.7
20000
10000
0
−10000
−20000
−30000
pull
Entries 102
Mean −1156
Std Dev 1188
2
1
0
−1
−2
−3
−4

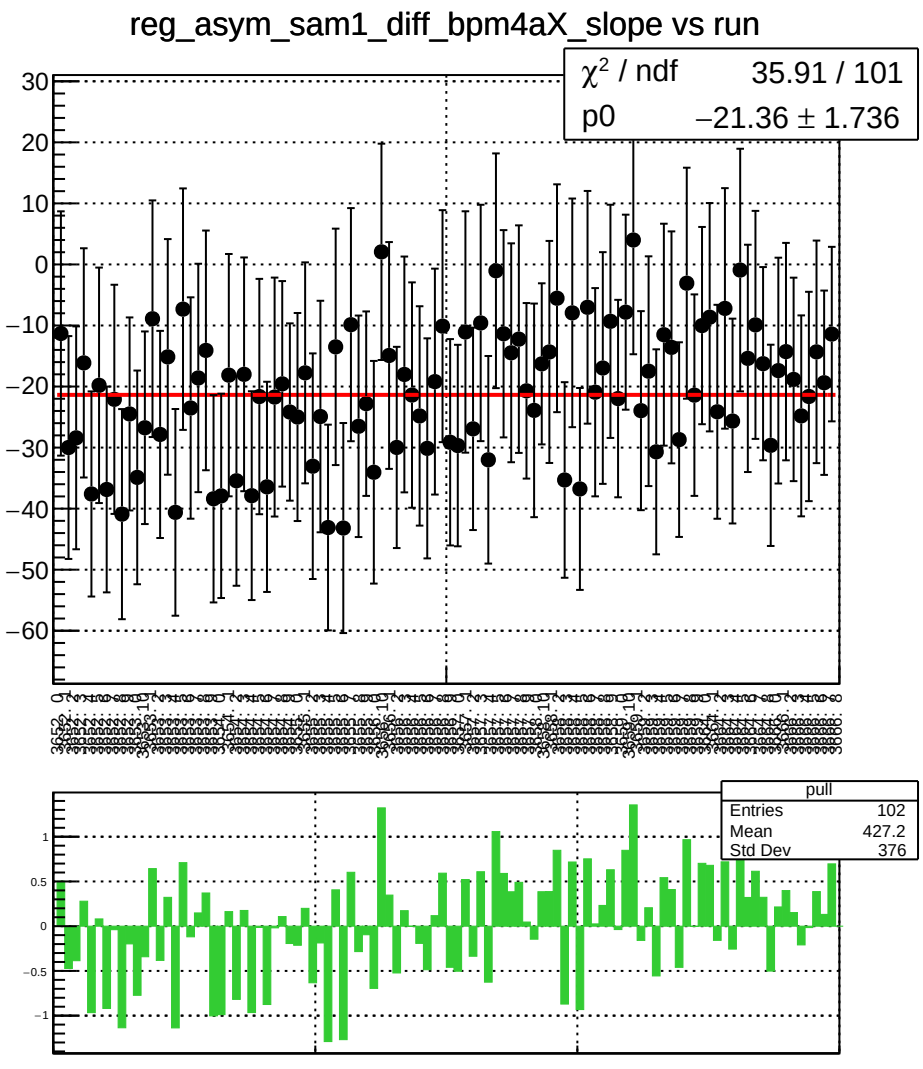

pull1D
Entries 102
Mean −0.003239
Std Dev 1.037
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

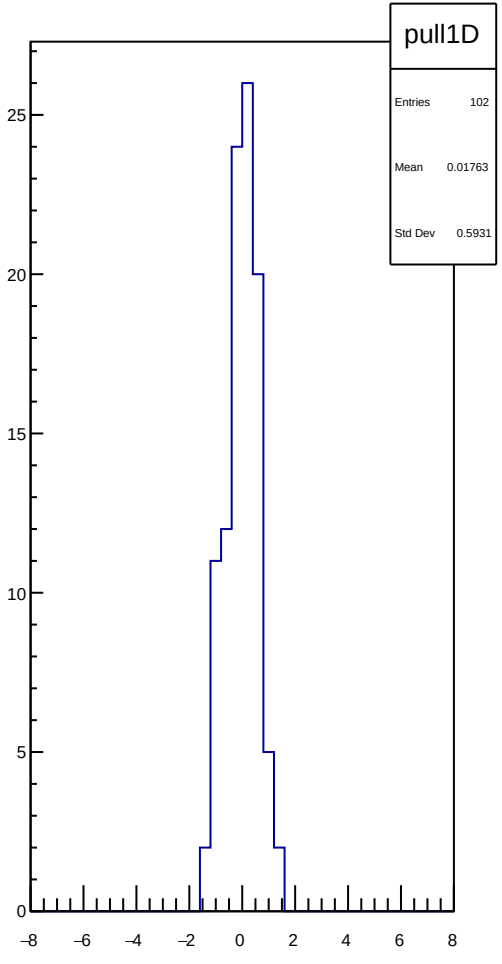

reg_asym_sam8_rms vs run
χ² / ndf 1791 / 101
p0 686.3 ± 0.4954
740
720
700
680
660
640

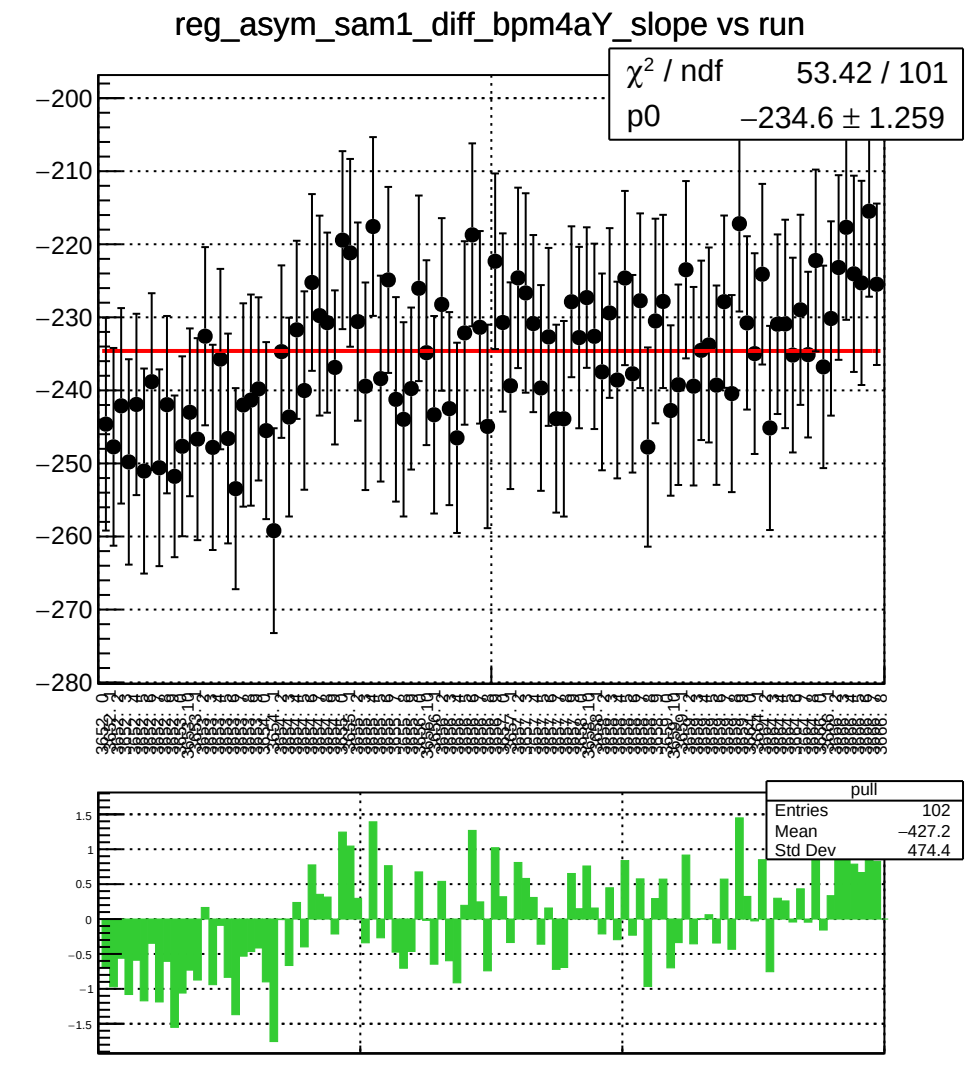

asym_sam8_correction_mean vs run
×10^3
χ^2 / ndf 107.8 / 101
p0 5921 ± 4388
150
100
50
0
−50
−100
−150
pull
Entries 102
Mean 1408
Std Dev 1375
2
1
0
−1
−2

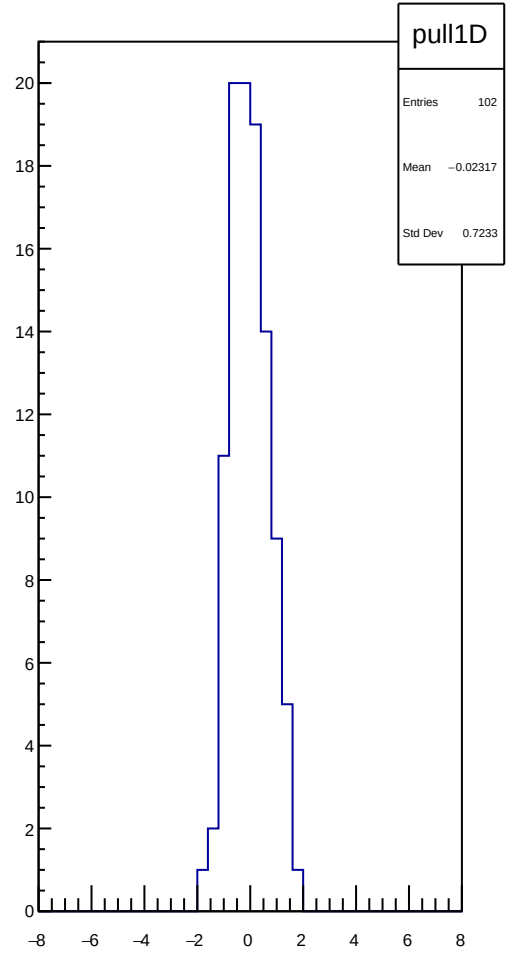

pull1D
Entries 102
Mean −0.003102
Std Dev 1.028
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

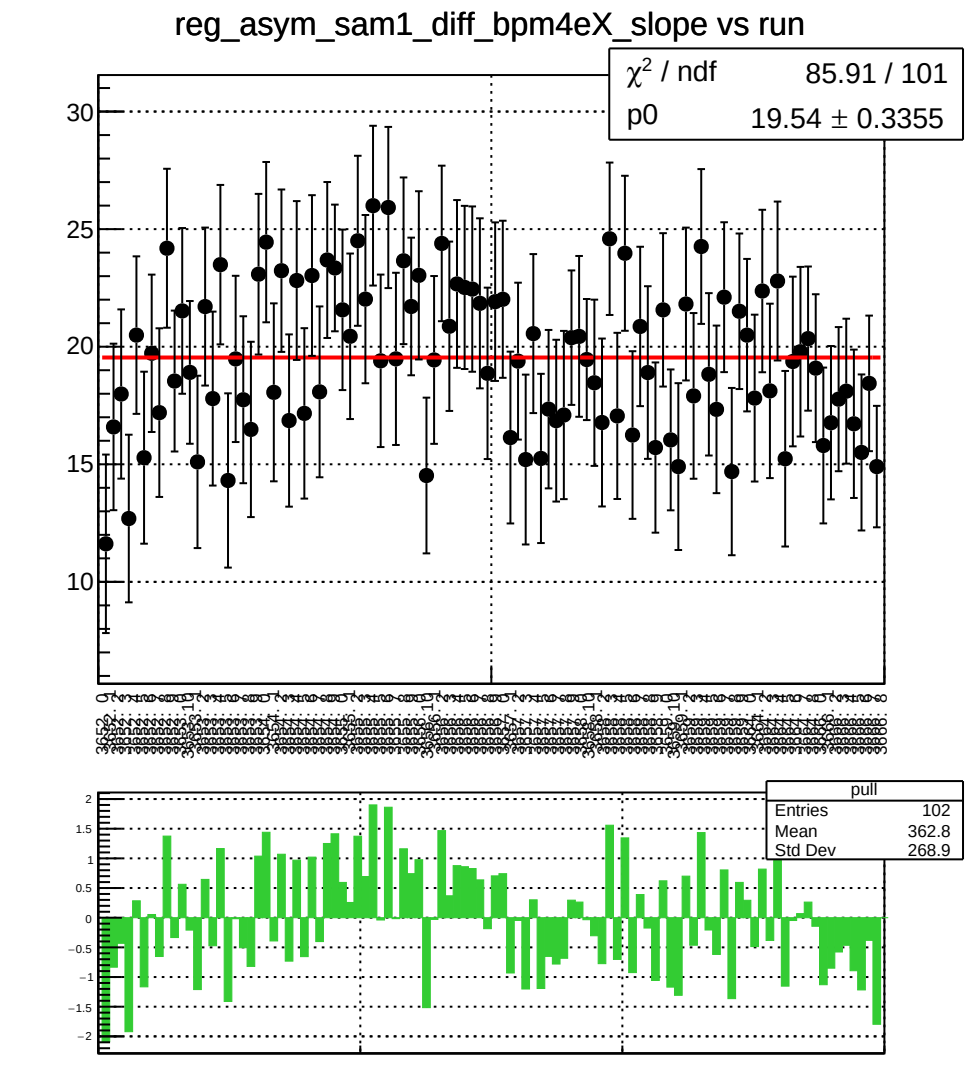

asym_sam8_correction_rms vs run
χ² / ndf 1916 / 101
p0 4298 ± 3.103
4800
4700
4600
4500
4400
4300
4200
4100
4000

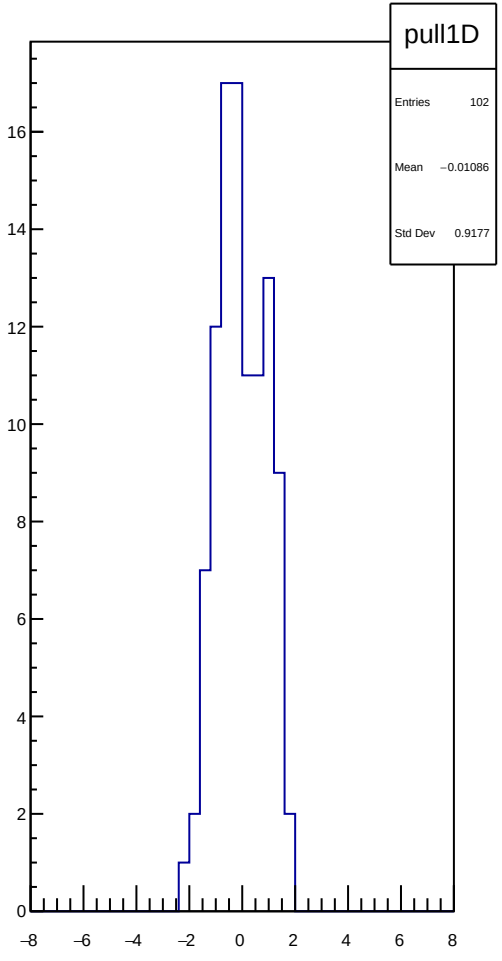

reg_asym_sam1_diff_bpm4aX_slope vs run
χ² / ndf 35.91 / 101
p0 −21.36 ± 1.736
pull
Entries 102
Mean 427.2
Std Dev 376

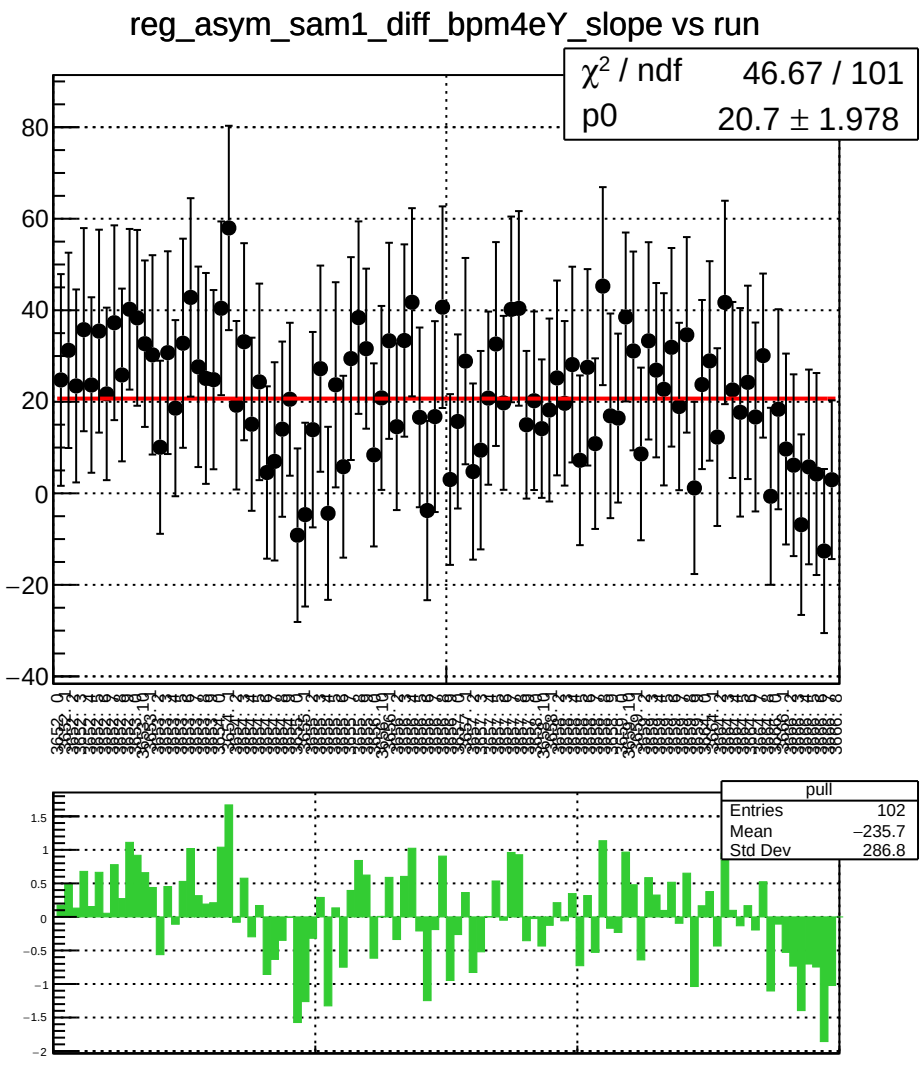

pull1D
Entries 102
Mean 0.01763
Std Dev 0.5931

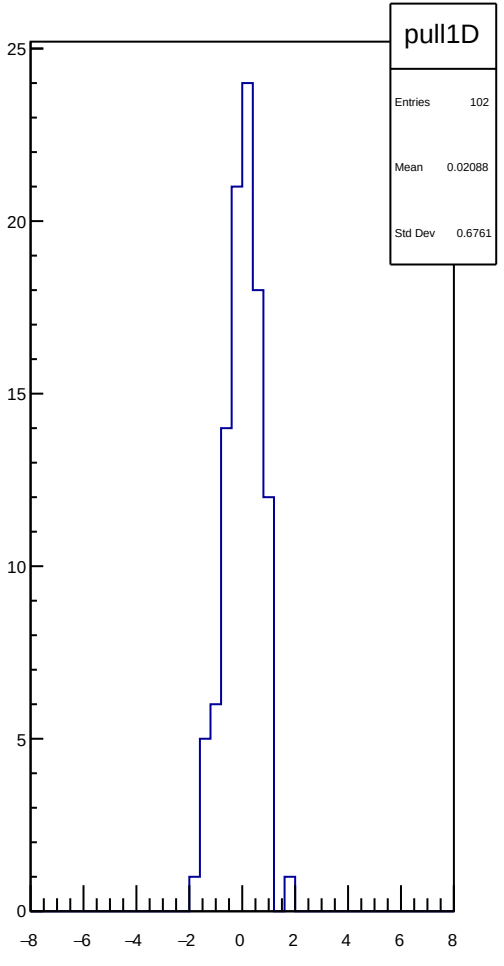

reg_asym_sam1_diff_bpm4aY_slope vs run
χ² / ndf 53.42 / 101
p0 −234.6 ± 1.259
pull
Entries 102
Mean −427.2
Std Dev 474.4

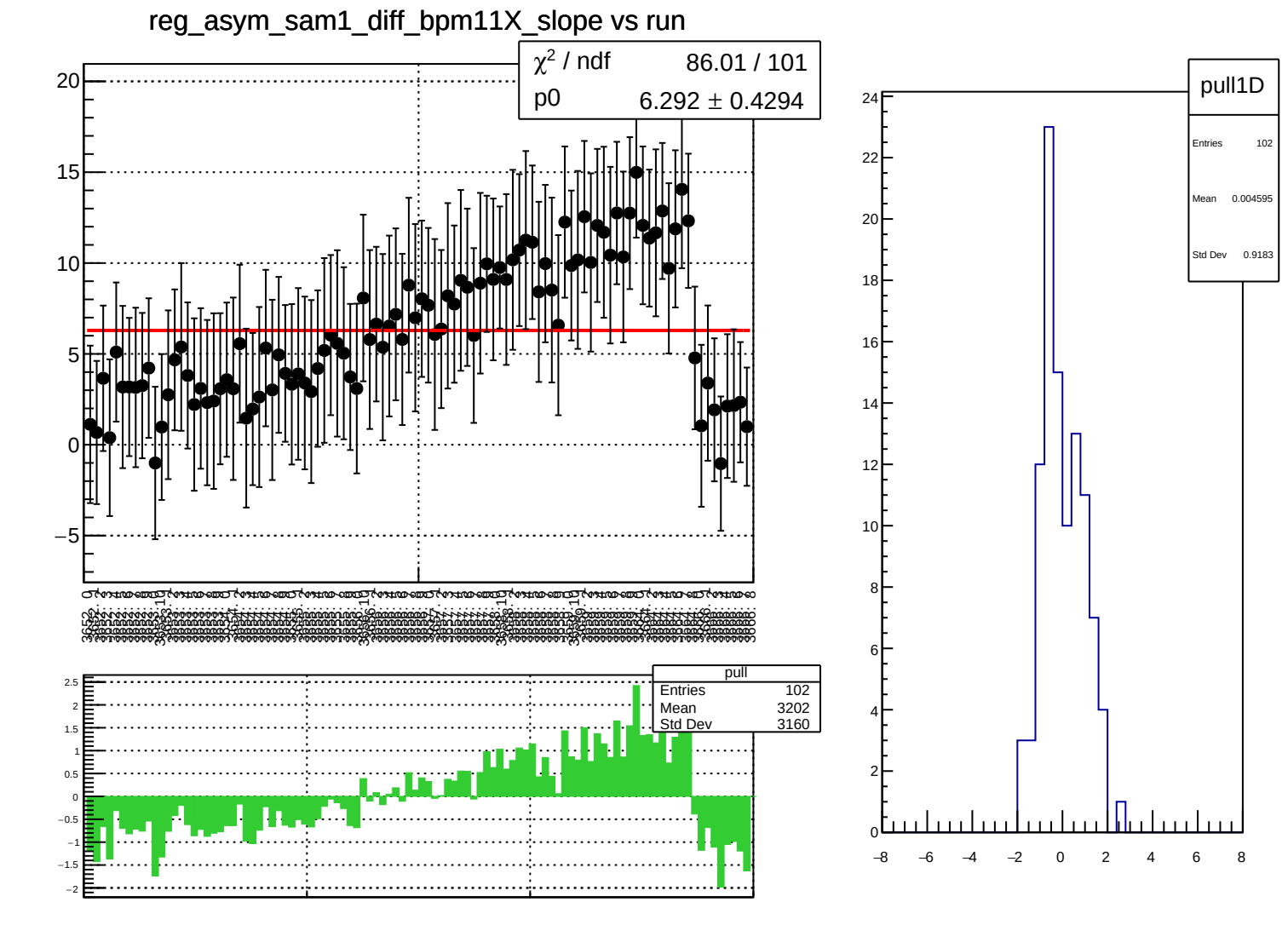

pull1D
Entries 102
Mean −0.02317
Std Dev 0.7233

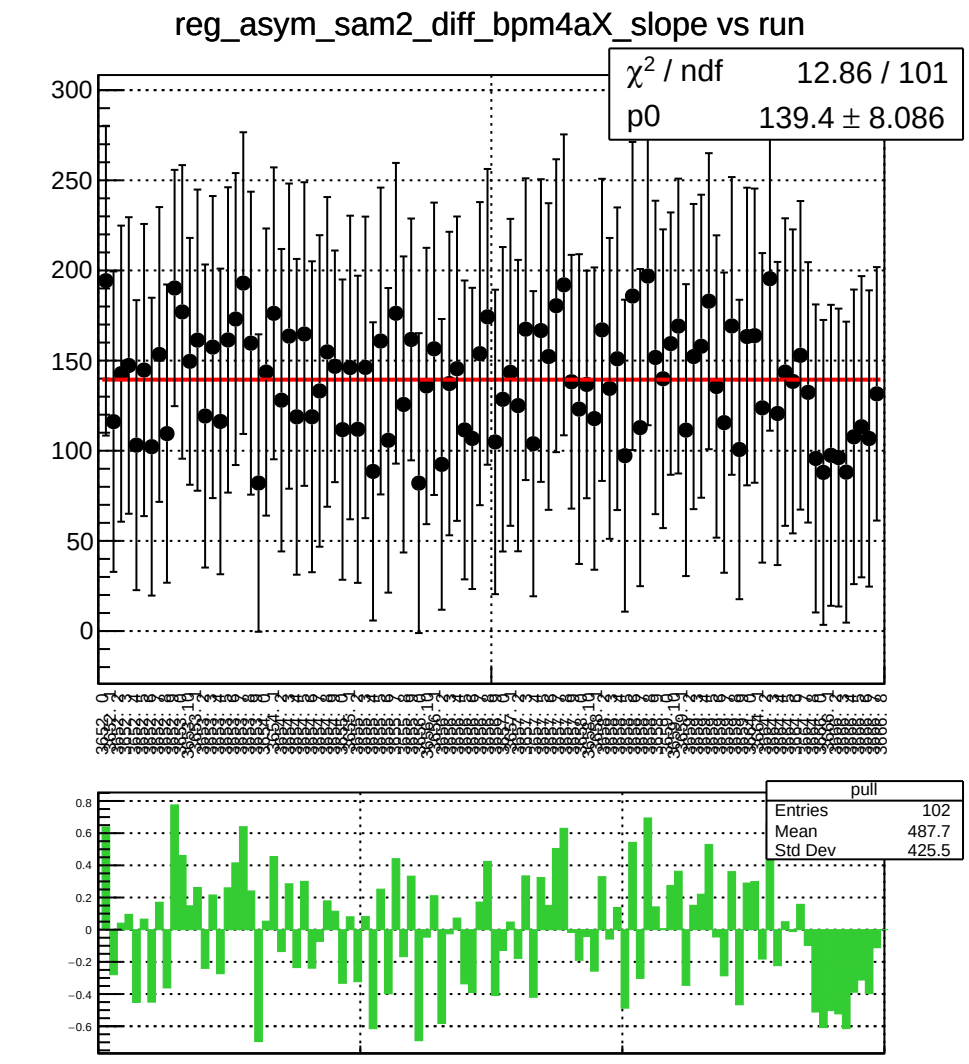

reg_asym_sam1_diff_bpm4eX_slope vs run
χ² / ndf 85.91 / 101
p0 19.54 ± 0.3355
pull
Entries 102
Mean 362.8
Std Dev 268.9

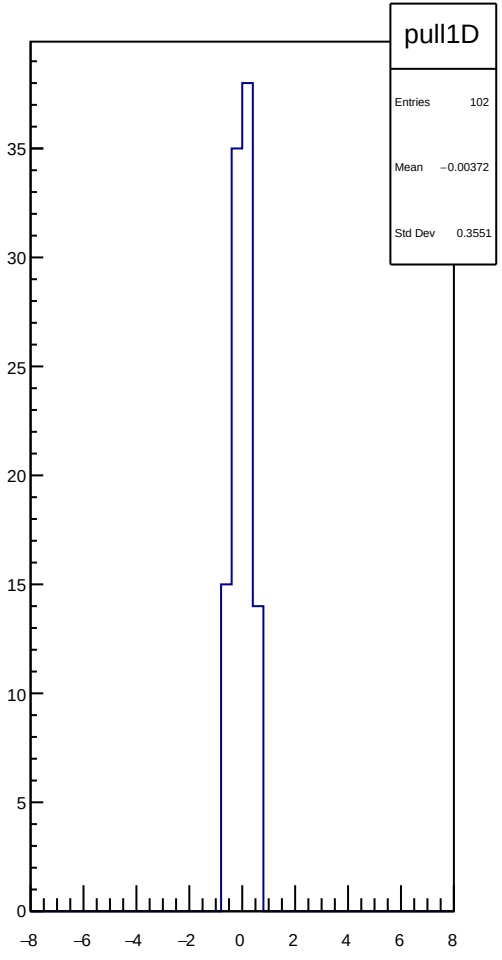

pull1D
Entries 102
Mean −0.01086
Std Dev 0.9177

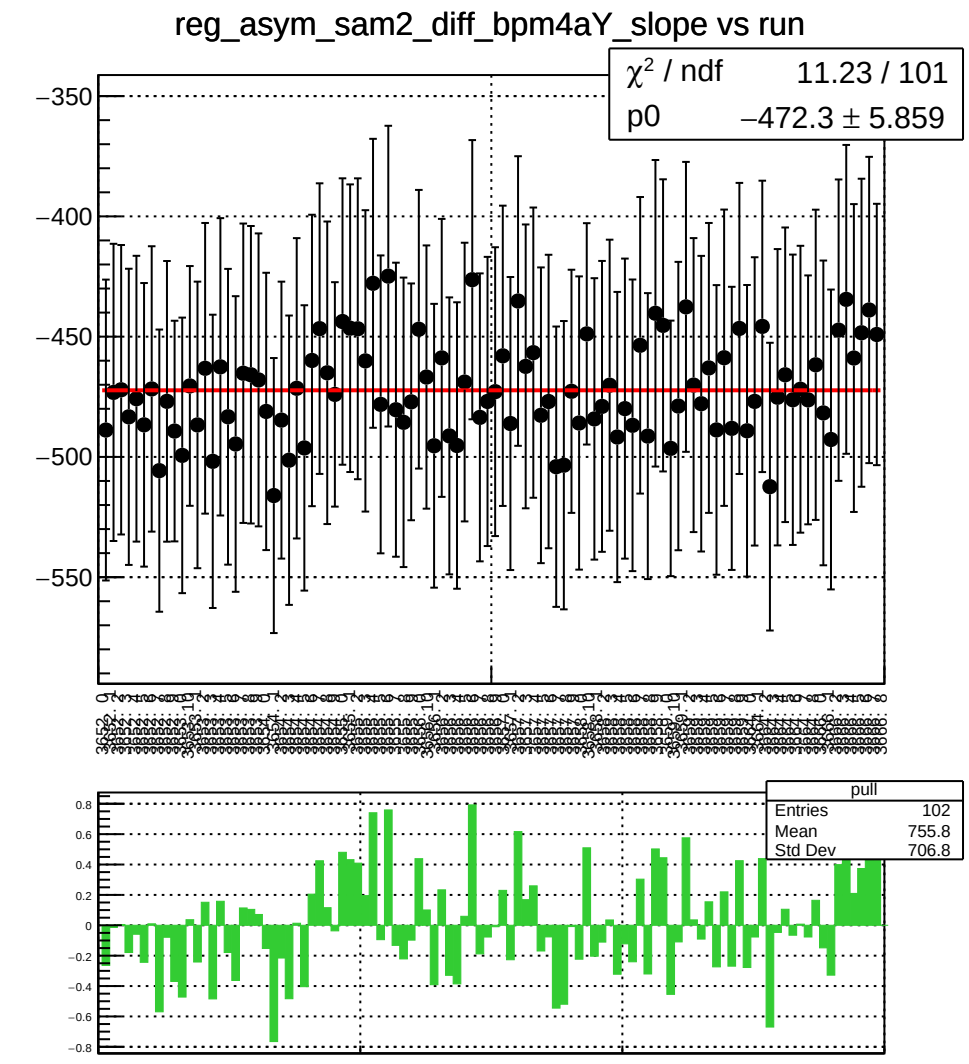

reg_asym_sam1_diff_bpm4eY_slope vs run
χ² / ndf 46.67 / 101
p0 20.7 ± 1.978
pull
Entries 102
Mean −235.7
Std Dev 286.8

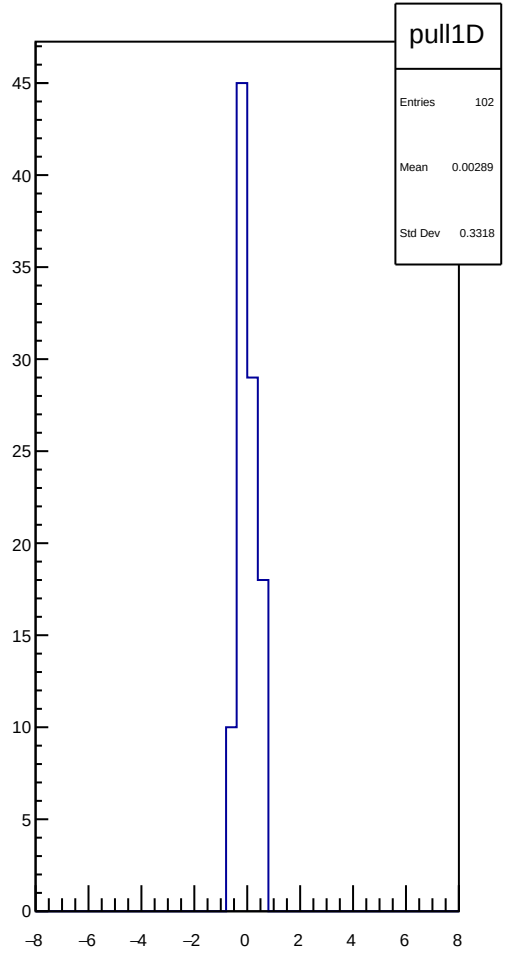

pull1D
Entries 102
Mean 0.02088
Std Dev 0.6761

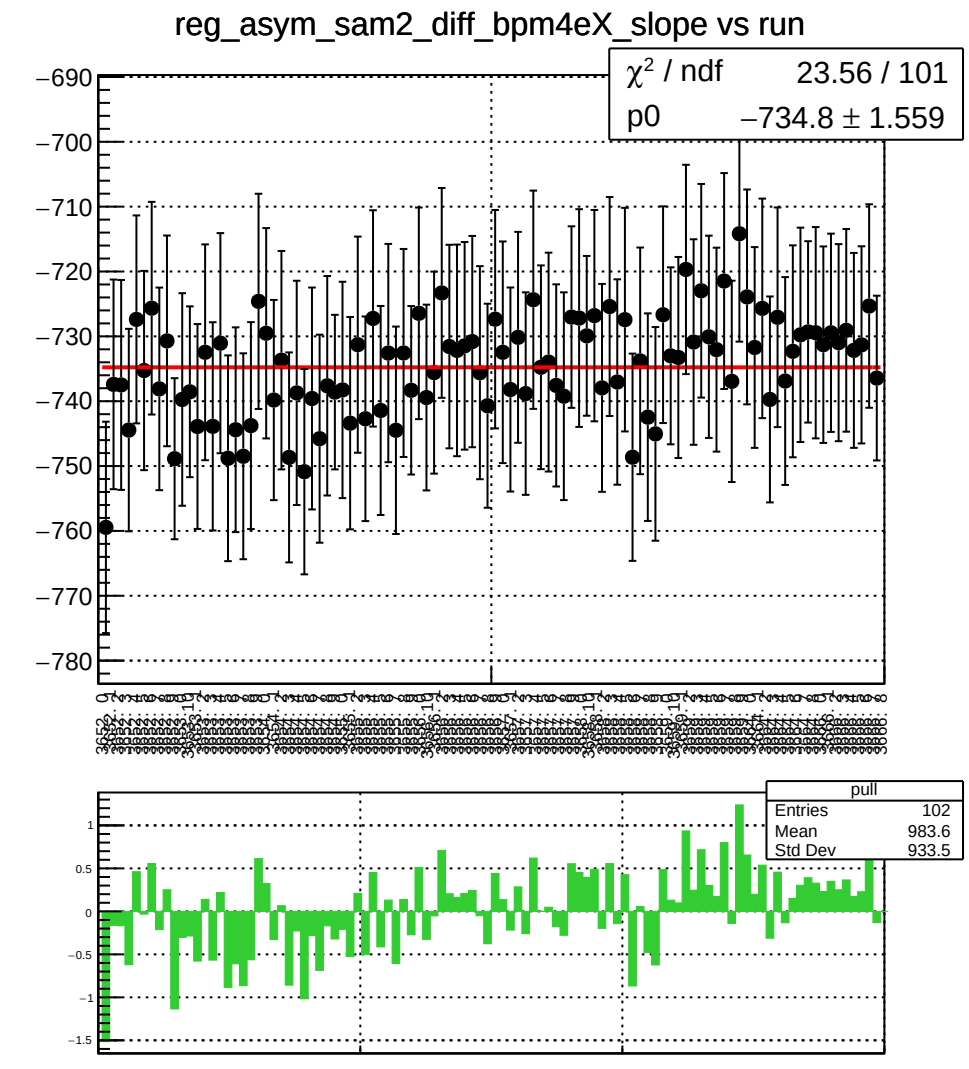

reg_asym_sam1_diff_bpm11X_slope vs run
χ² / ndf 86.01 / 101
p0 6.292 ± 0.4294
pull
Entries 102
Mean 3202
Std Dev 3160
pull1D
Entries 102
Mean 0.004595
Std Dev 0.9183

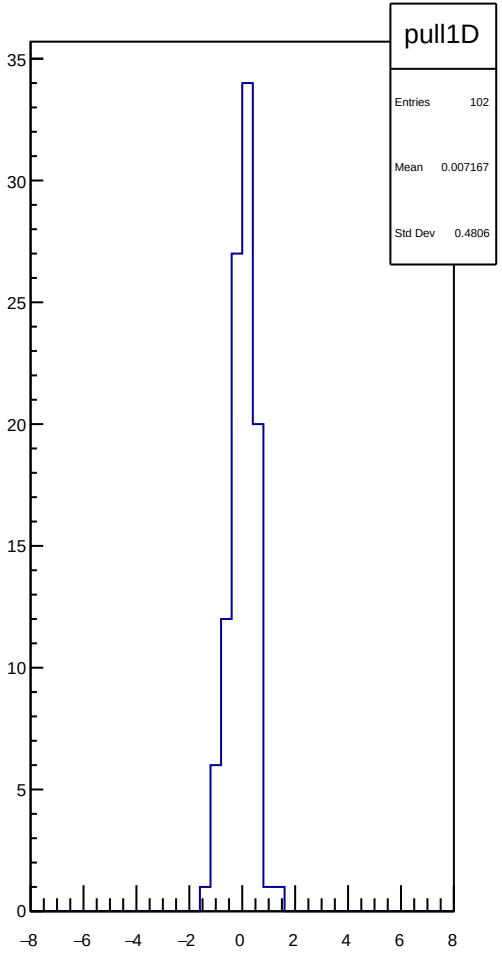

reg_asym_sam2_diff_bpm4aX_slope vs run
χ² / ndf 12.86 / 101
p0 139.4 ± 8.086
pull
Entries 102
Mean 487.7
Std Dev 425.5

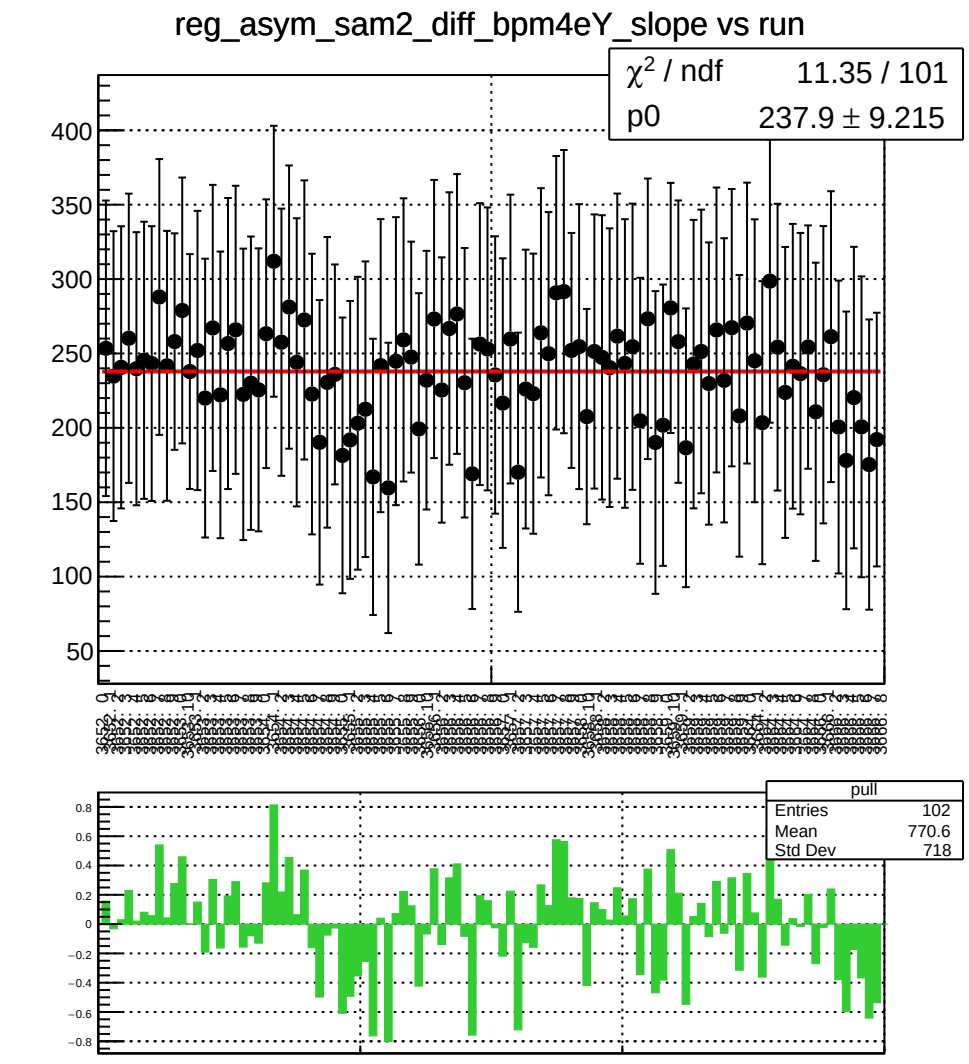

pull1D
Entries 102
Mean −0.00372
Std Dev 0.3551

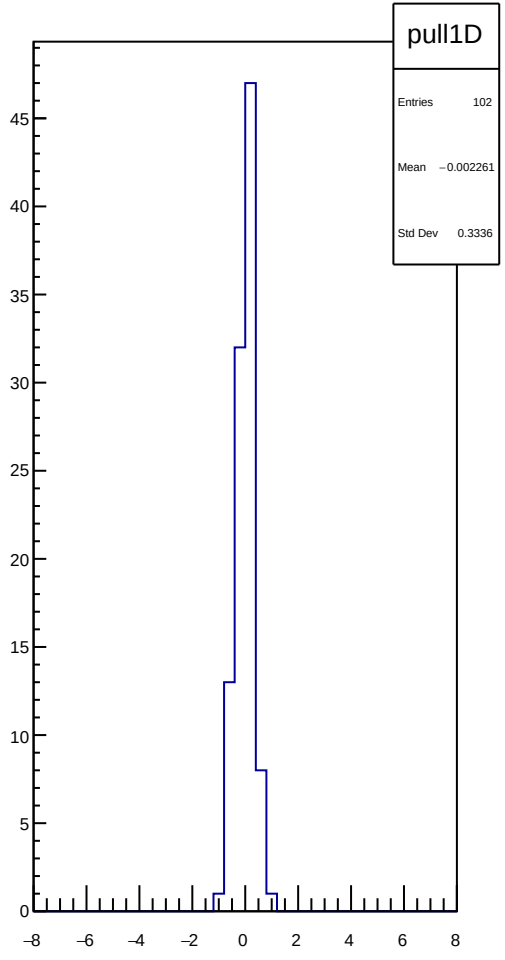

reg_asym_sam2_diff_bpm4aY_slope vs run
χ² / ndf 11.23 / 101
p0 −472.3 ± 5.859
−350
−400
−450
−500
−550
pull
Entries 102
Mean 755.8
Std Dev 706.8
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

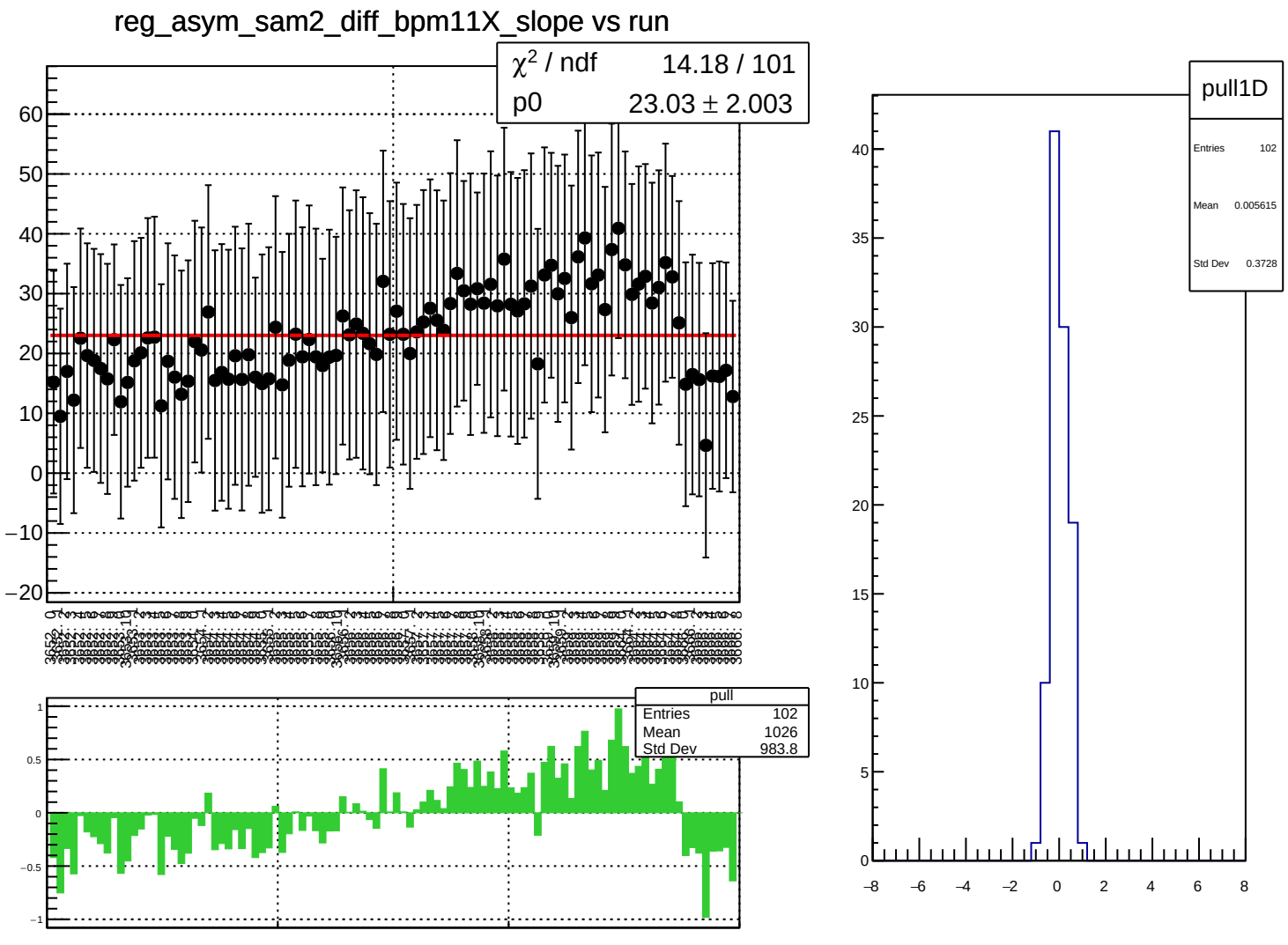

pull1D
Entries 102
Mean 0.00289
Std Dev 0.3318
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

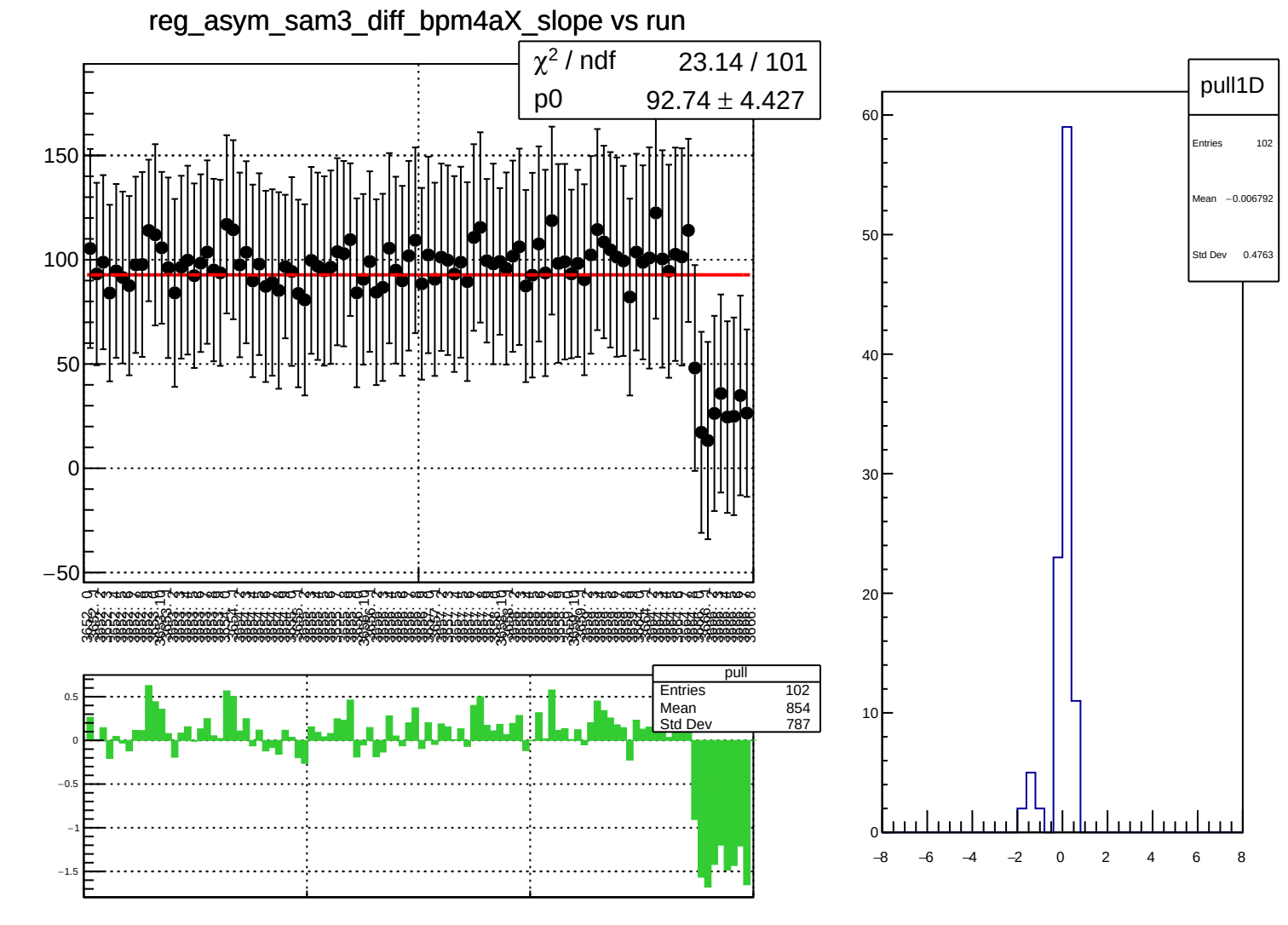

reg_asym_sam2_diff_bpm4eX_slope vs run
χ² / ndf 23.56 / 101
p0 −734.8 ± 1.559
pull
Entries 102
Mean 983.6
Std Dev 933.5

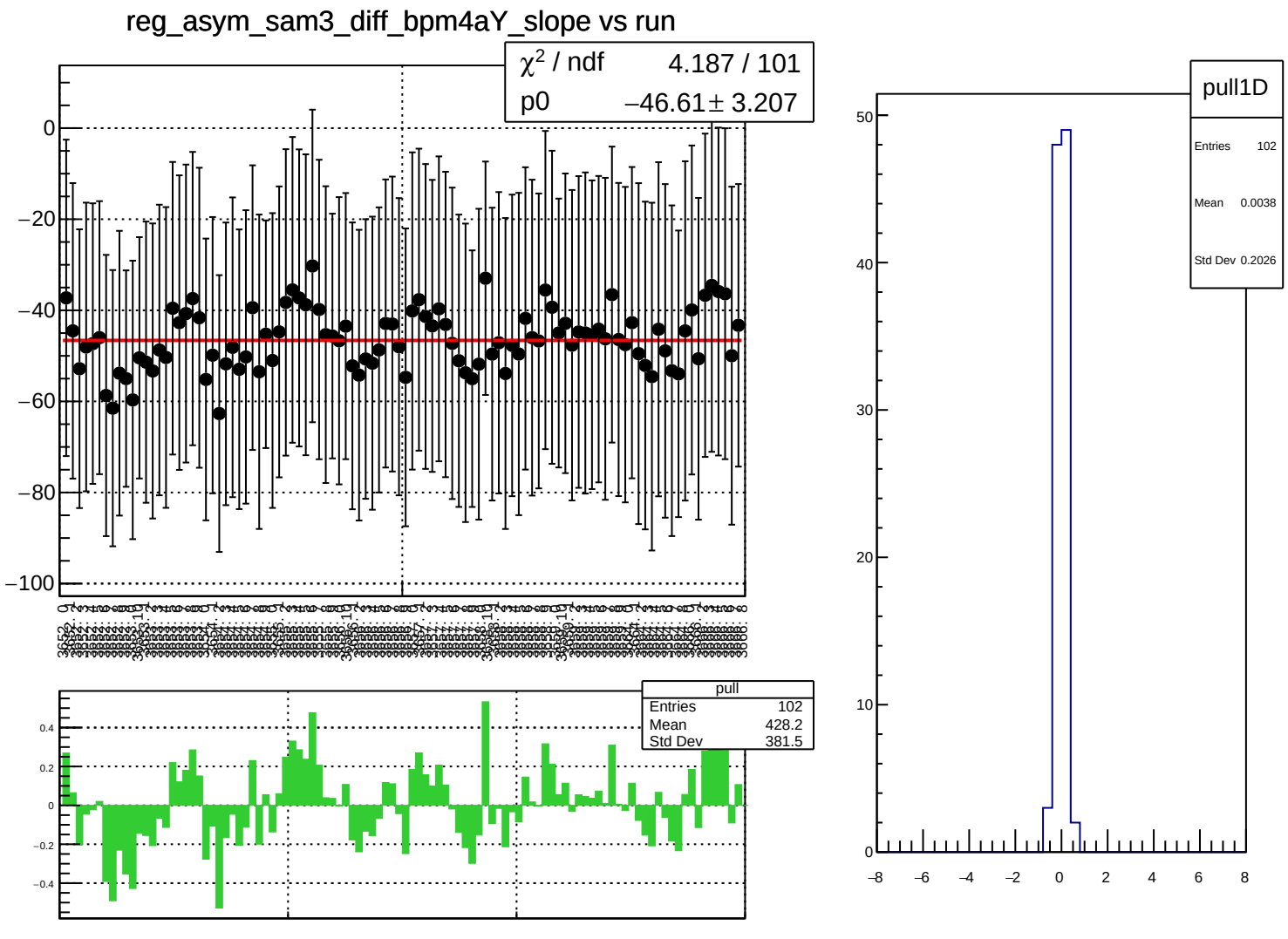

pull1D
Entries 102
Mean 0.007167
Std Dev 0.4806

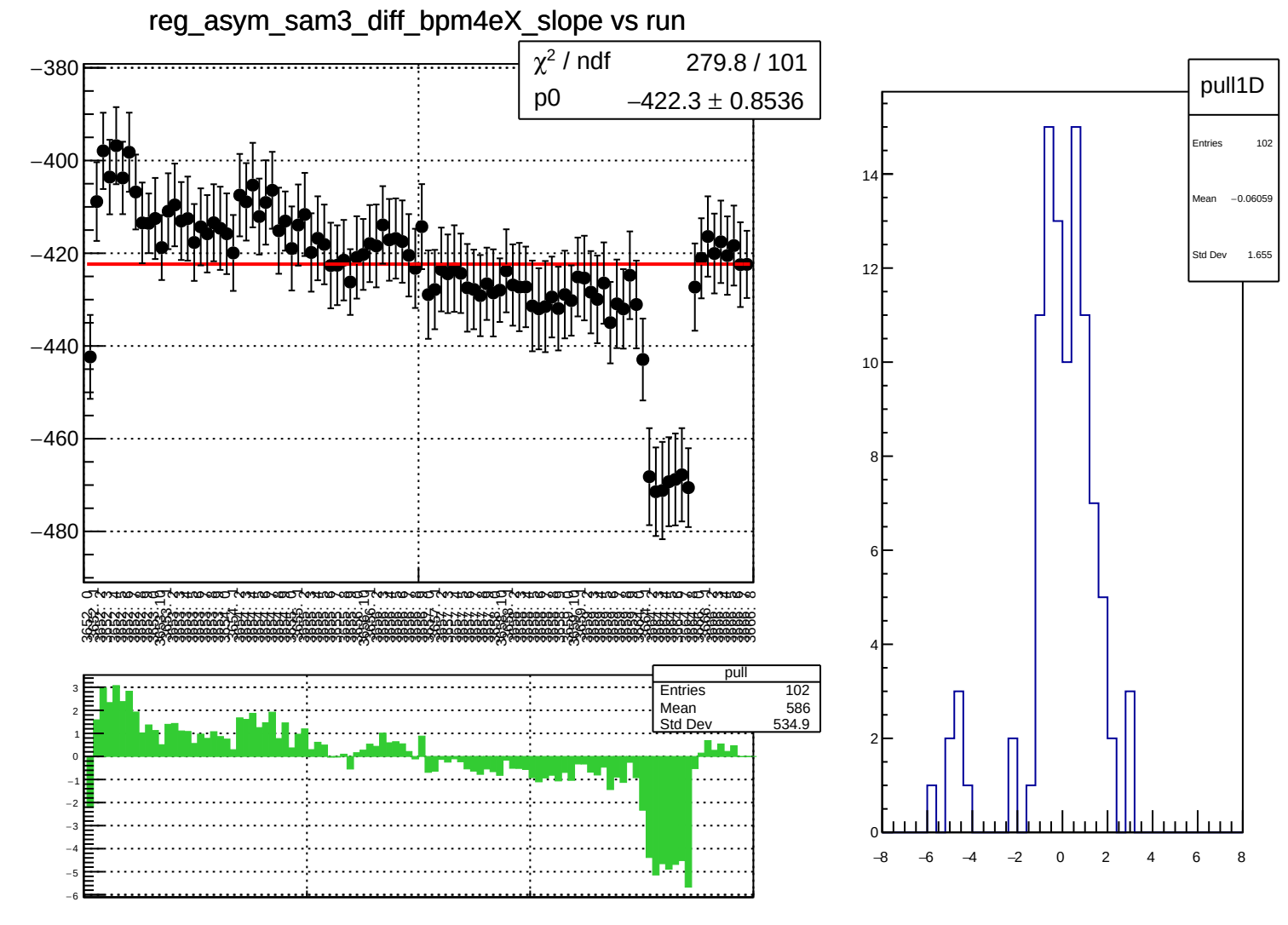

reg_asym_sam2_diff_bpm4eY_slope vs run
χ² / ndf 11.35 / 101
p0 237.9 ± 9.215
pull
Entries 102
Mean 770.6
Std Dev 718

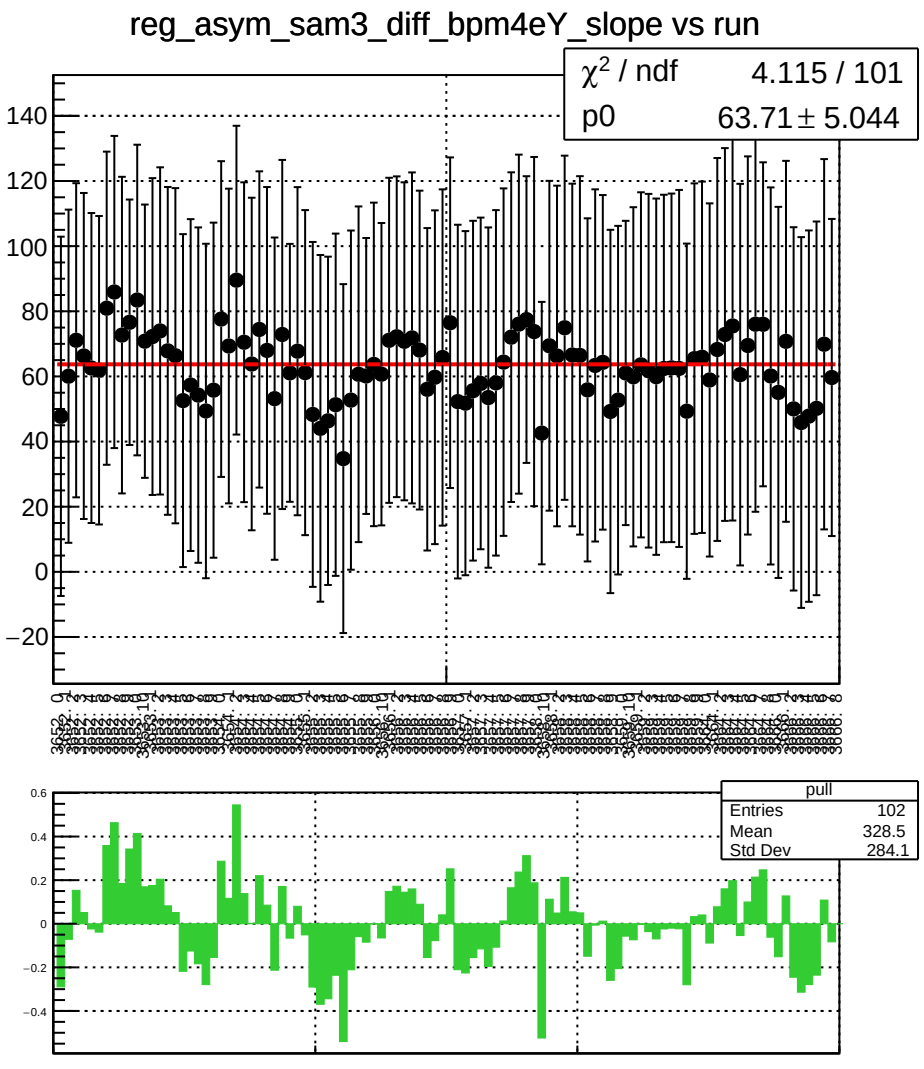

pull1D
Entries 102
Mean −0.002261
Std Dev 0.3336

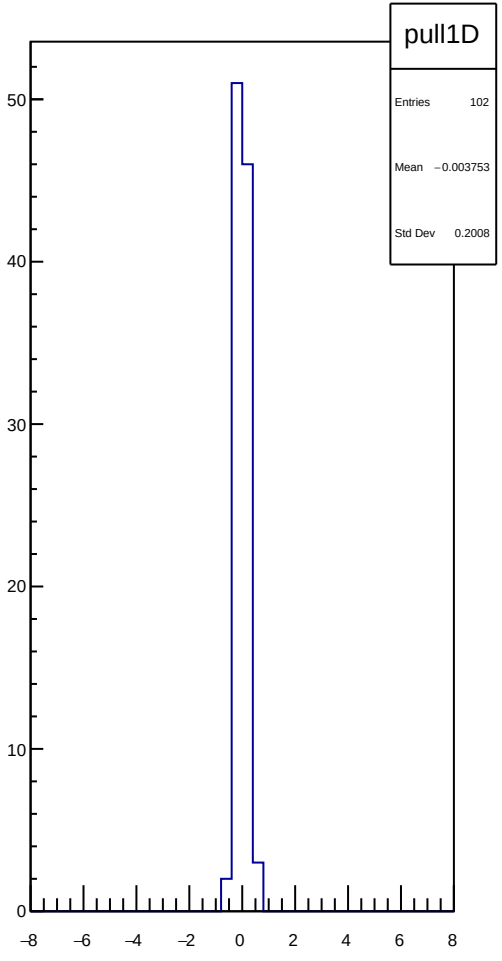

reg_asym_sam2_diff_bpm11X_slope vs run
χ² / ndf 14.18 / 101
p0 23.03 ± 2.003
pull
Entries 102
Mean 1026
Std Dev 983.8
pull1D
Entries 102
Mean 0.005615
Std Dev 0.3728

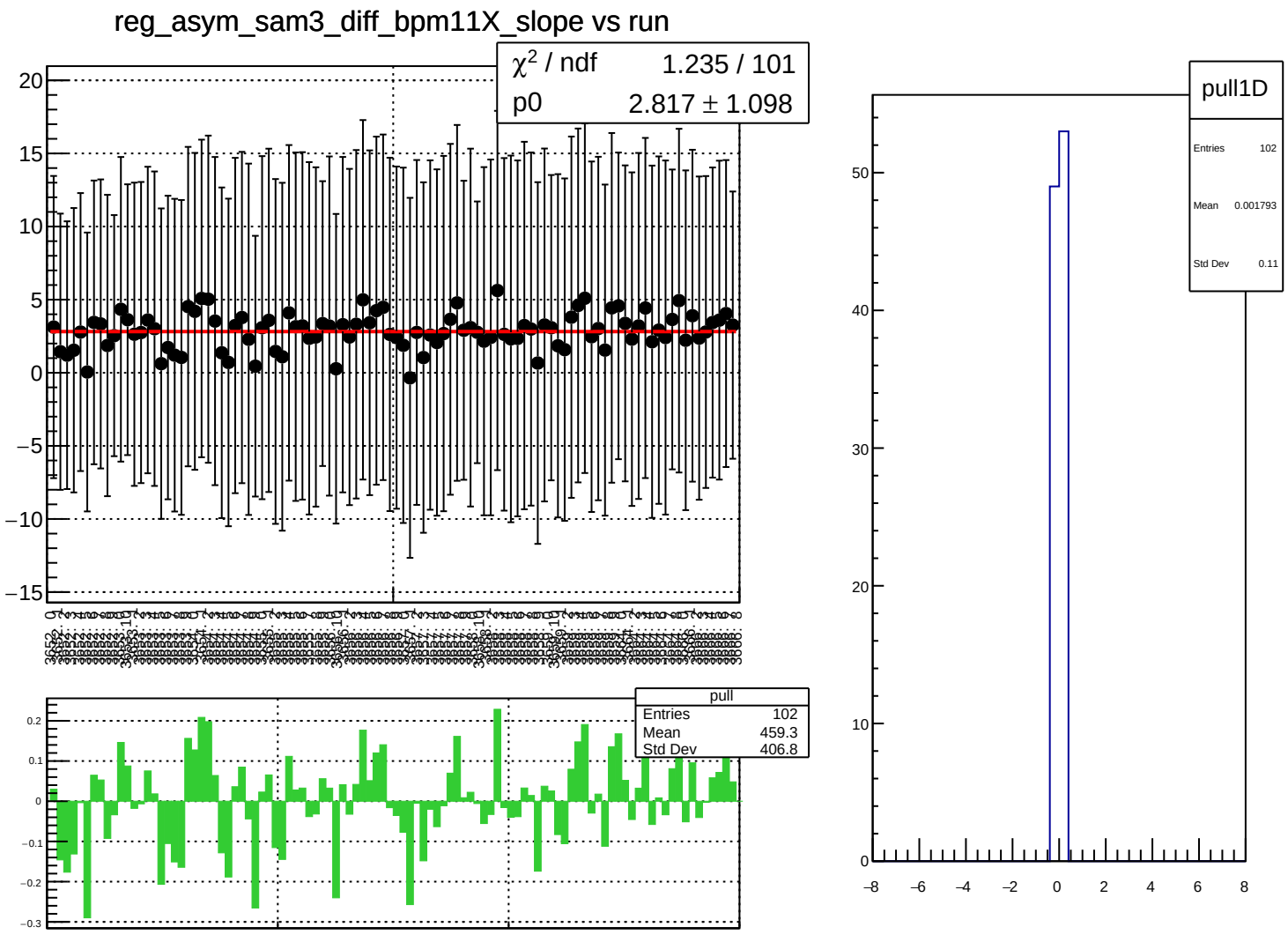

reg_asym_sam3_diff_bpm4aX_slope vs run
χ² / ndf 23.14 / 101
p0 92.74 ± 4.427
150
100
50
0
−50
pull
Entries 102
Mean 854
Std Dev 787
0.5
0
−0.5
−1
−1.5
pull1D
Entries 102
Mean −0.006792
Std Dev 0.4763
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

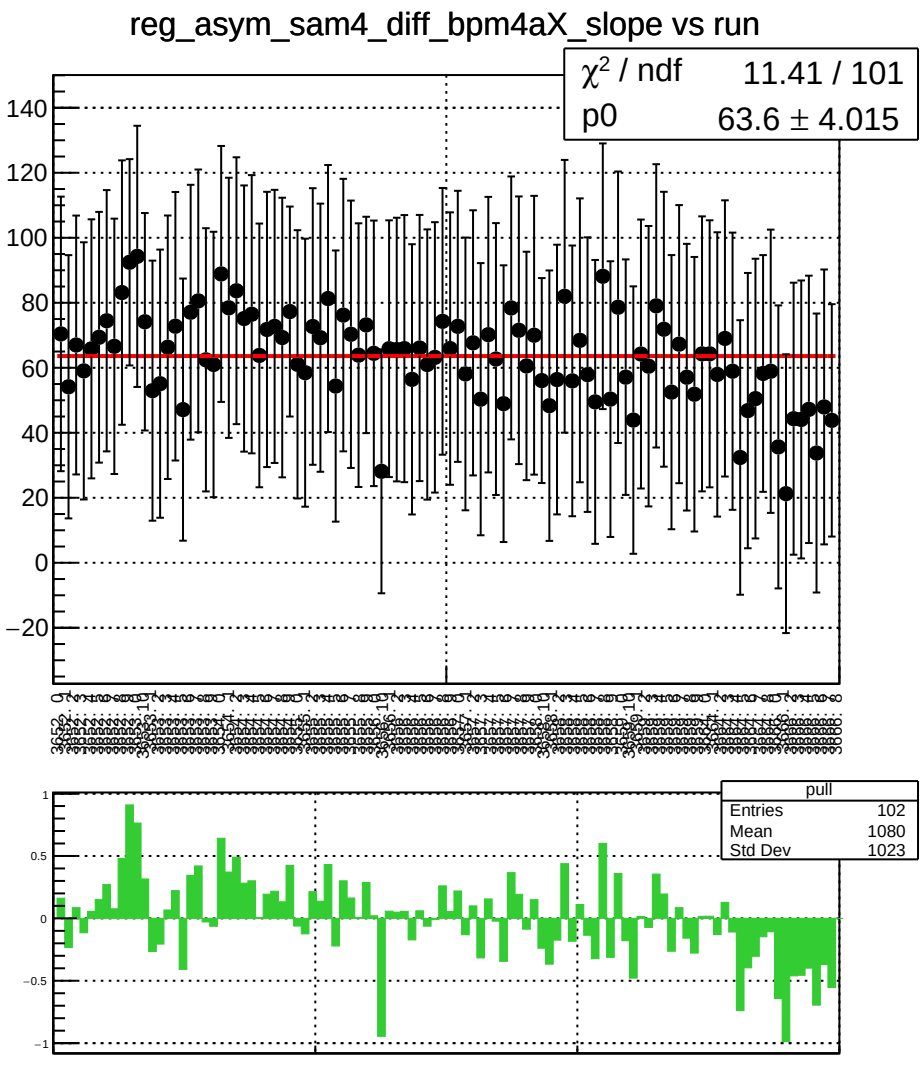

reg_asym_sam3_diff_bpm4aY_slope vs run
χ² / ndf 4.187 / 101
p0 −46.61 ± 3.207
pull
Entries 102
Mean 428.2
Std Dev 381.5
pull1D
Entries 102
Mean 0.0038
Std Dev 0.2026

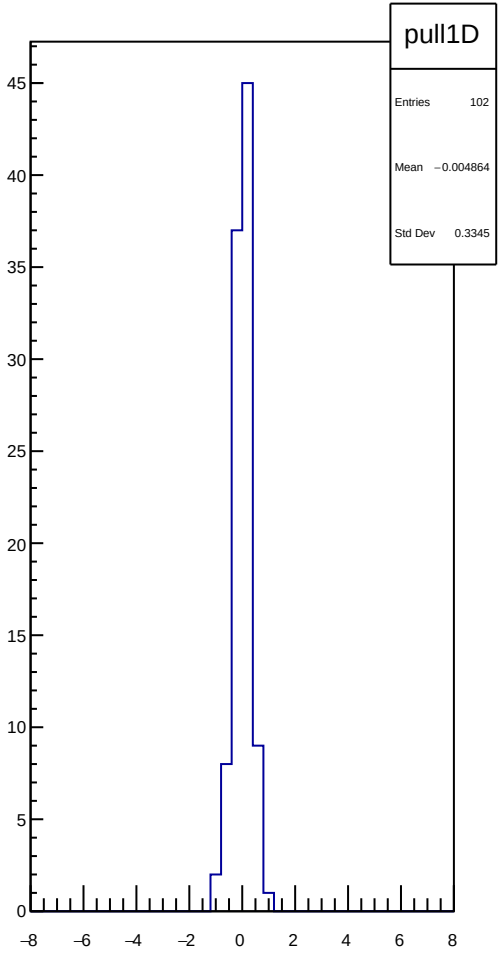

reg_asym_sam3_diff_bpm4eX_slope vs run
χ² / ndf 279.8 / 101
p0 −422.3 ± 0.8536
−380
−400
−420
−440
−460
−480
pull
Entries 102
Mean 586
Std Dev 534.9
3
2
1
0
−1
−2
−3
−4
−5
−6
pull1D
Entries 102
Mean −0.06059
Std Dev 1.655
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

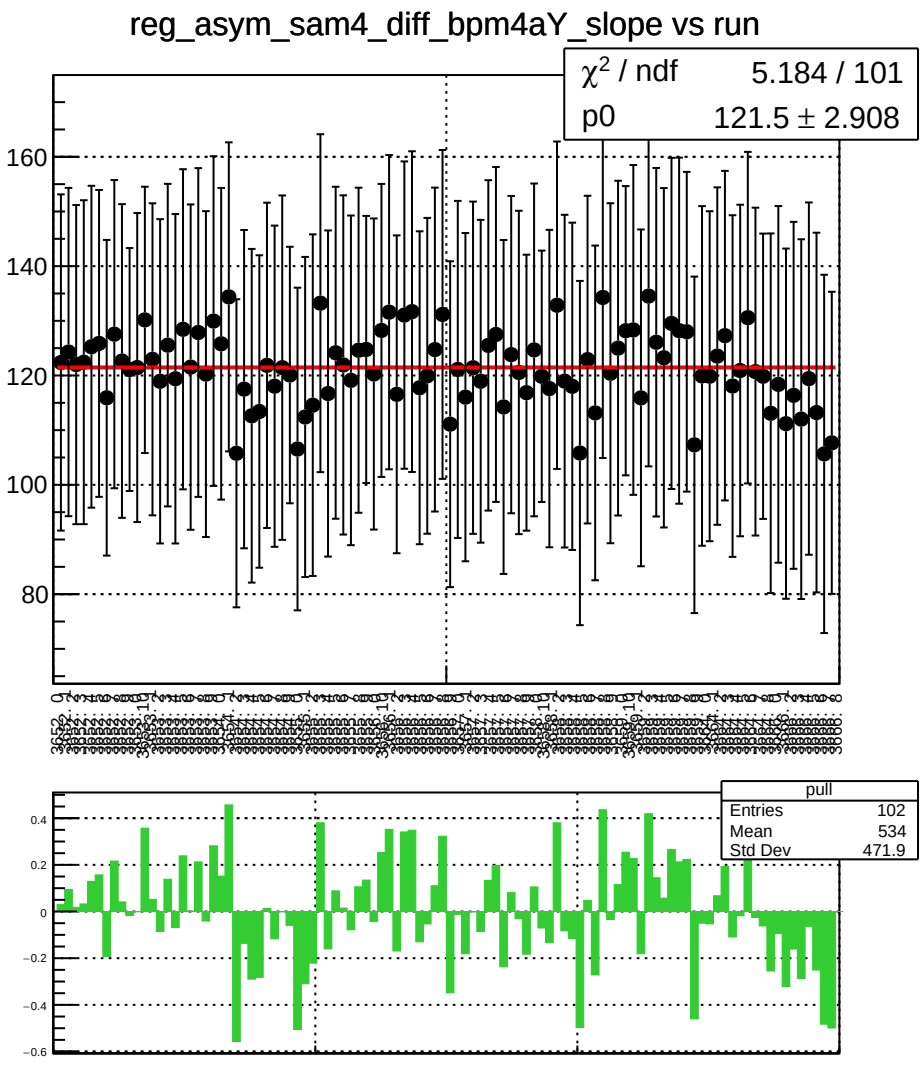

reg_asym_sam3_diff_bpm4eY_slope vs run
χ² / ndf 4.115 / 101
p0 63.71 ± 5.044
pull
Entries 102
Mean 328.5
Std Dev 284.1

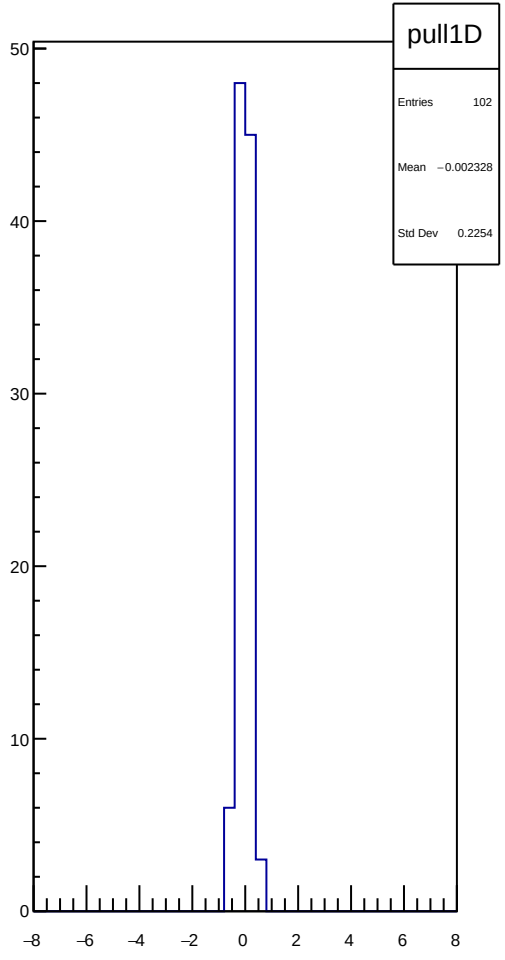

pull1D
Entries 102
Mean −0.003753
Std Dev 0.2008

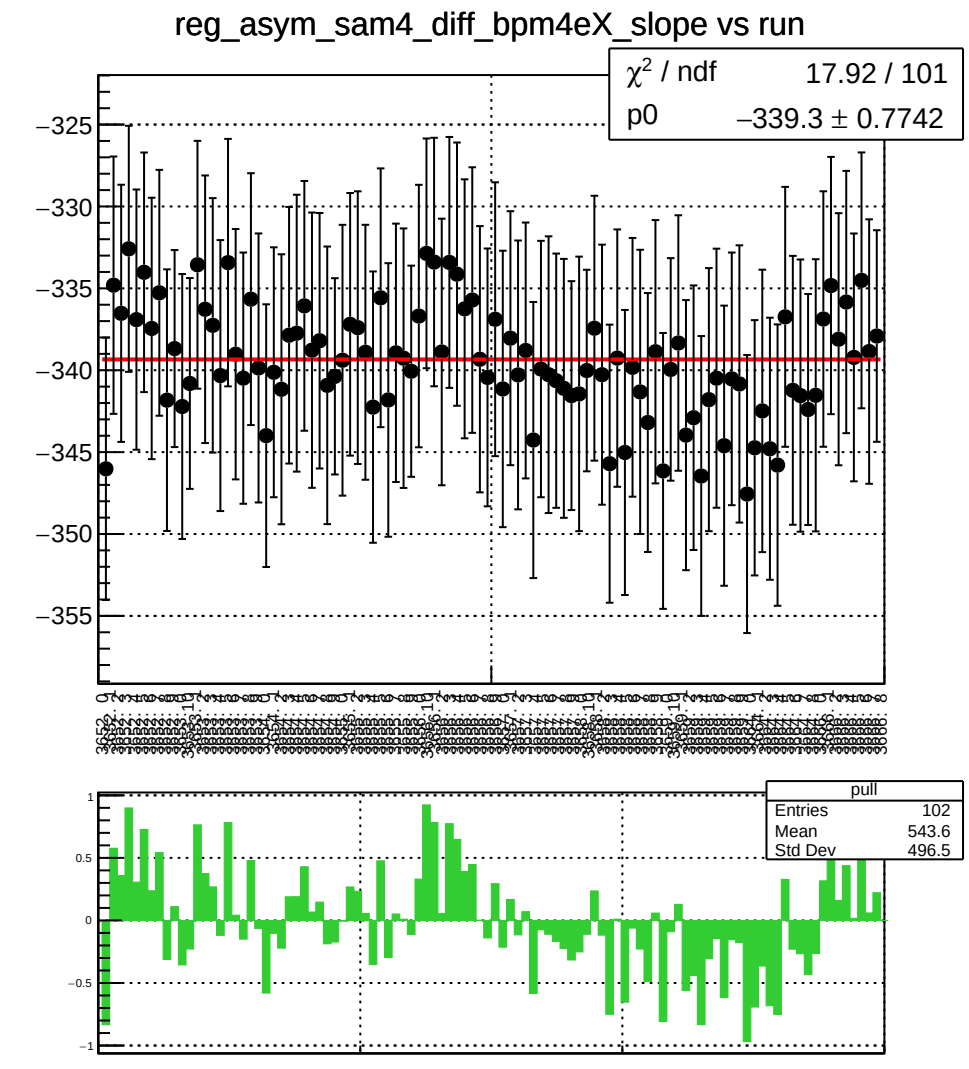

reg_asym_sam3_diff_bpm11X_slope vs run
χ² / ndf 1.235 / 101
p0 2.817 ± 1.098
pull
Entries 102
Mean 459.3
Std Dev 406.8
pull1D
Entries 102
Mean 0.001793
Std Dev 0.11

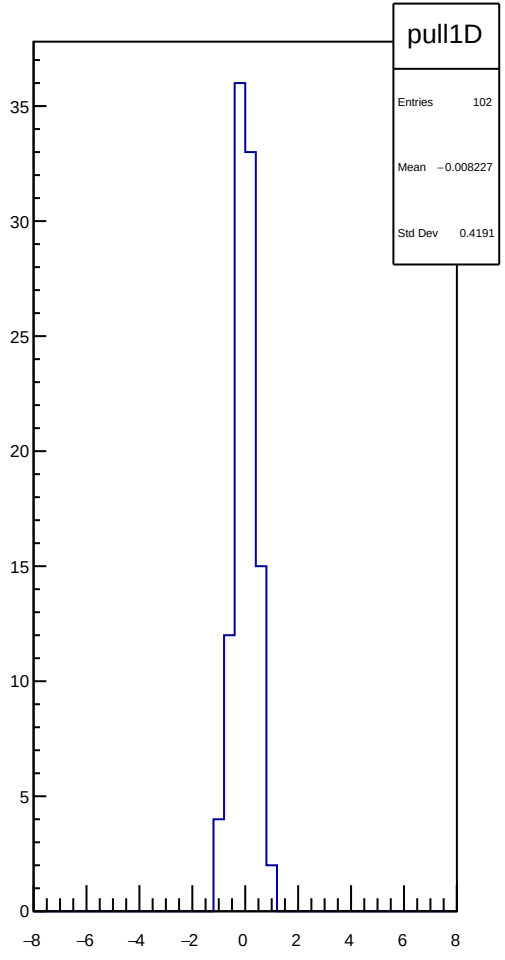

reg_asym_sam4_diff_bpm4aX_slope vs run
χ² / ndf 11.41 / 101
p0 63.6 ± 4.015
pull
Entries 102
Mean 1080
Std Dev 1023

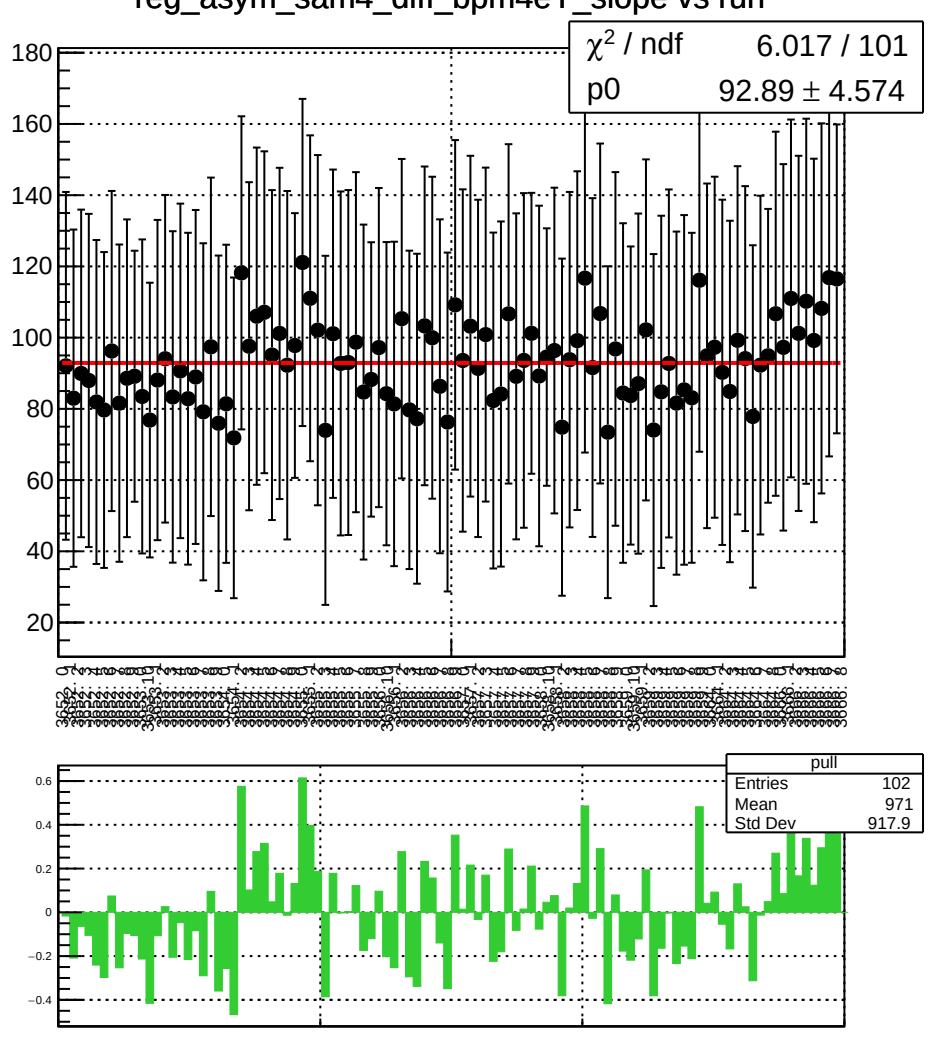

pull1D
Entries 102
Mean −0.004864
Std Dev 0.3345

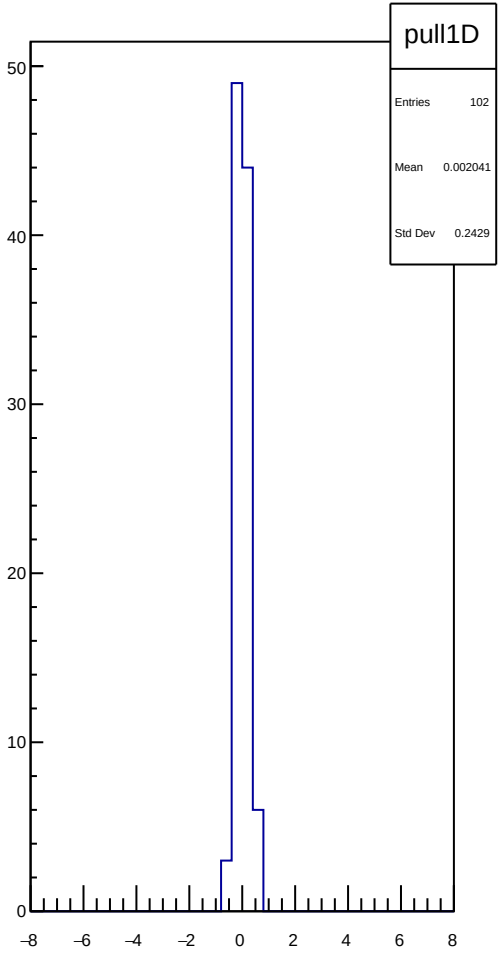

reg_asym_sam4_diff_bpm4aY_slope vs run
χ² / ndf 5.184 / 101
p0 121.5 ± 2.908
160
140
120
100
80
pull
Entries 102
Mean 534
Std Dev 471.9
0.4
0.2
0
−0.2
−0.4
−0.6

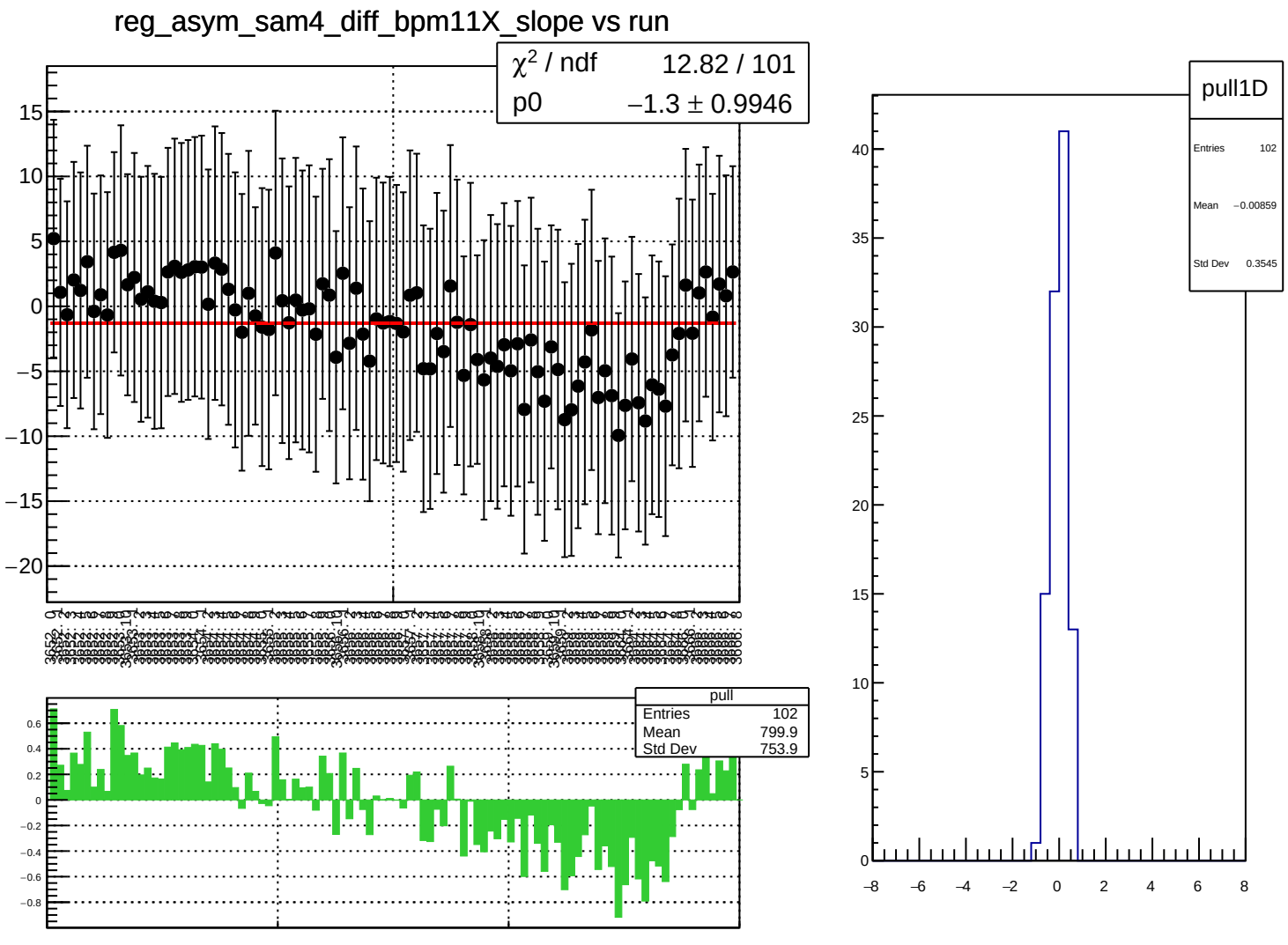

pull1D
Entries 102
Mean −0.002328
Std Dev 0.2254
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

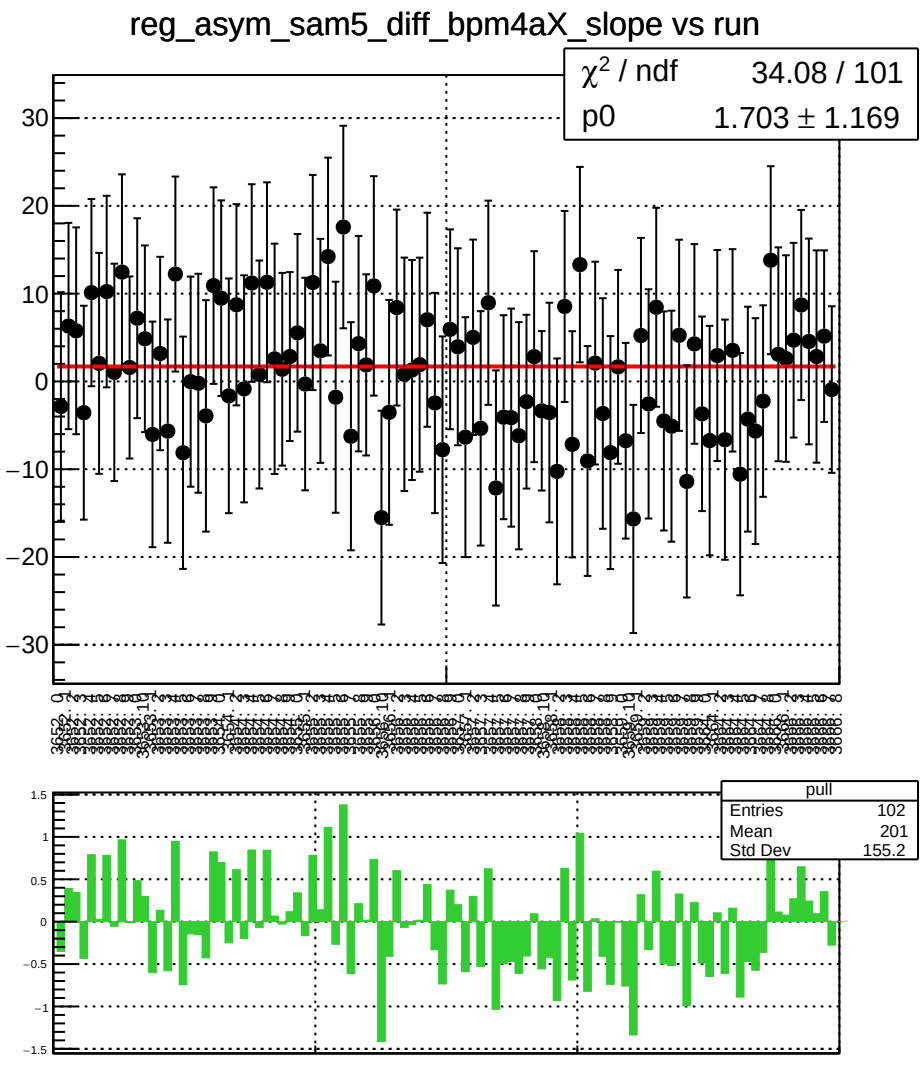

reg_asym_sam4_diff_bpm4eX_slope vs run
χ² / ndf 17.92 / 101
p0 −339.3 ± 0.7742
−325
−330
−335
−340
−345
−350
−355
pull
Entries 102
Mean 543.6
Std Dev 496.5
1
0.5
0
−0.5
−1

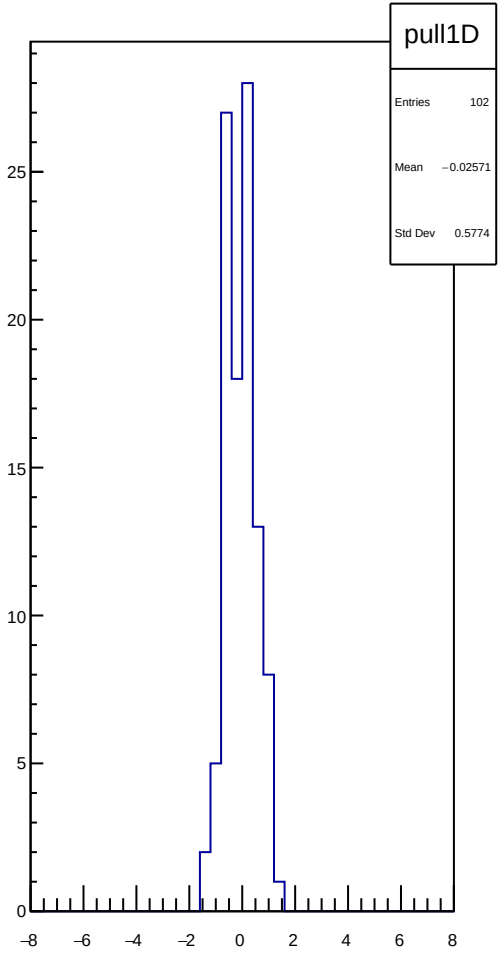

pull1D
Entries 102
Mean −0.008227
Std Dev 0.4191
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

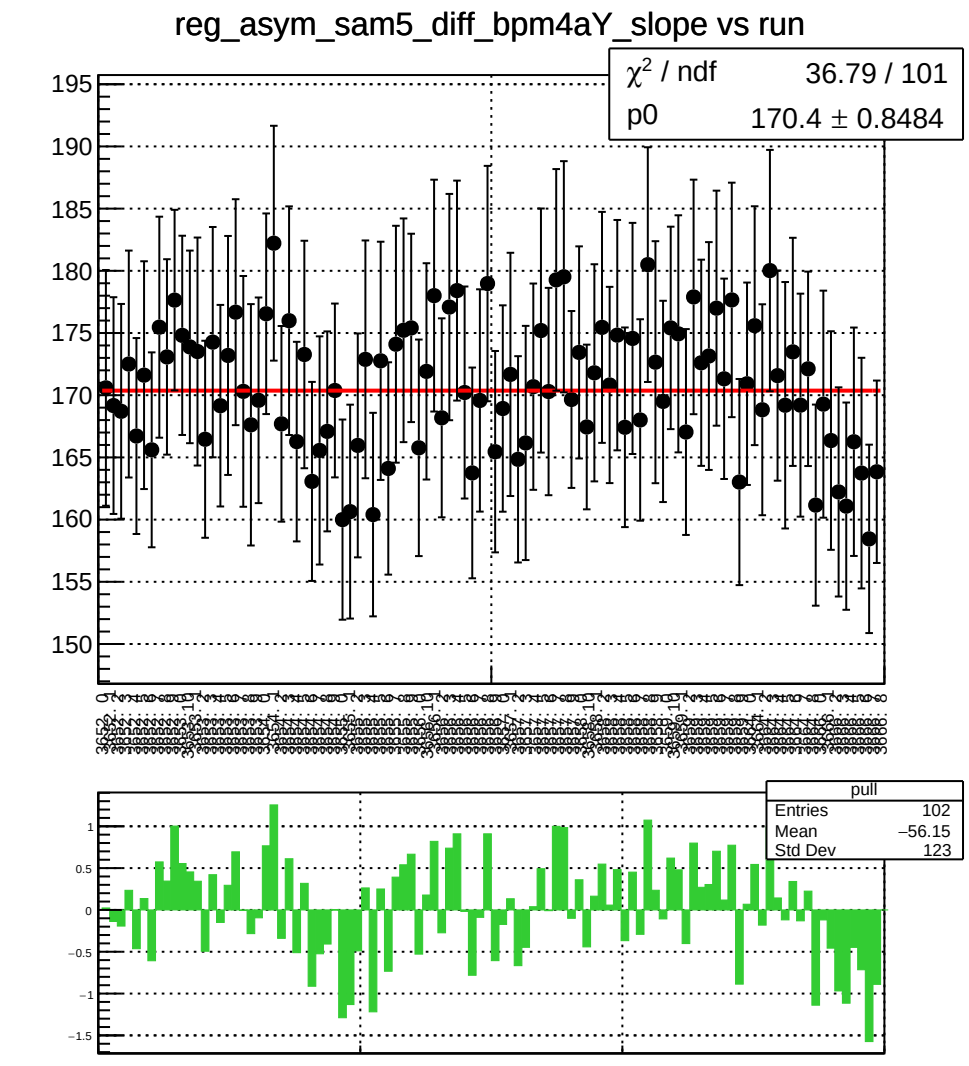

reg_asym_sam4_diff_bpm4eY_slope vs run
χ² / ndf 6.017 / 101
p0 92.89 ± 4.574
pull
Entries 102
Mean 971
Std Dev 917.9

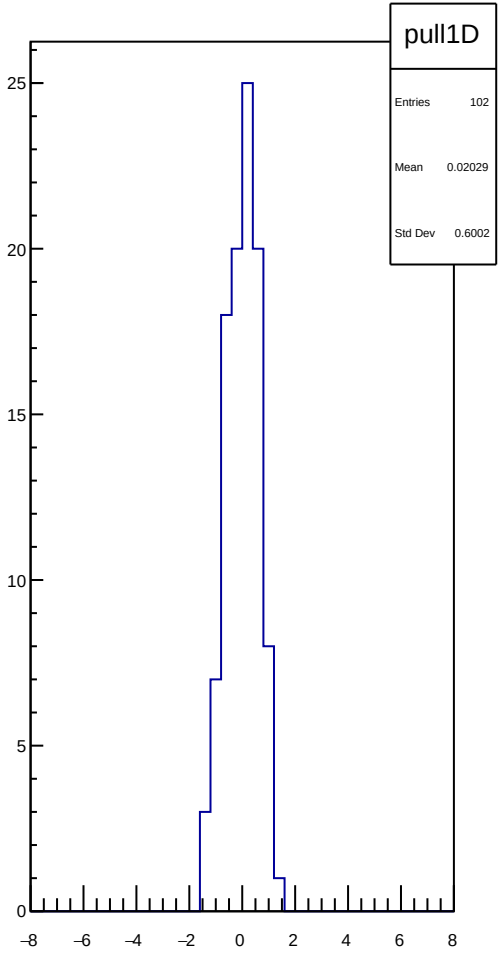

pull1D
Entries 102
Mean 0.002041
Std Dev 0.2429

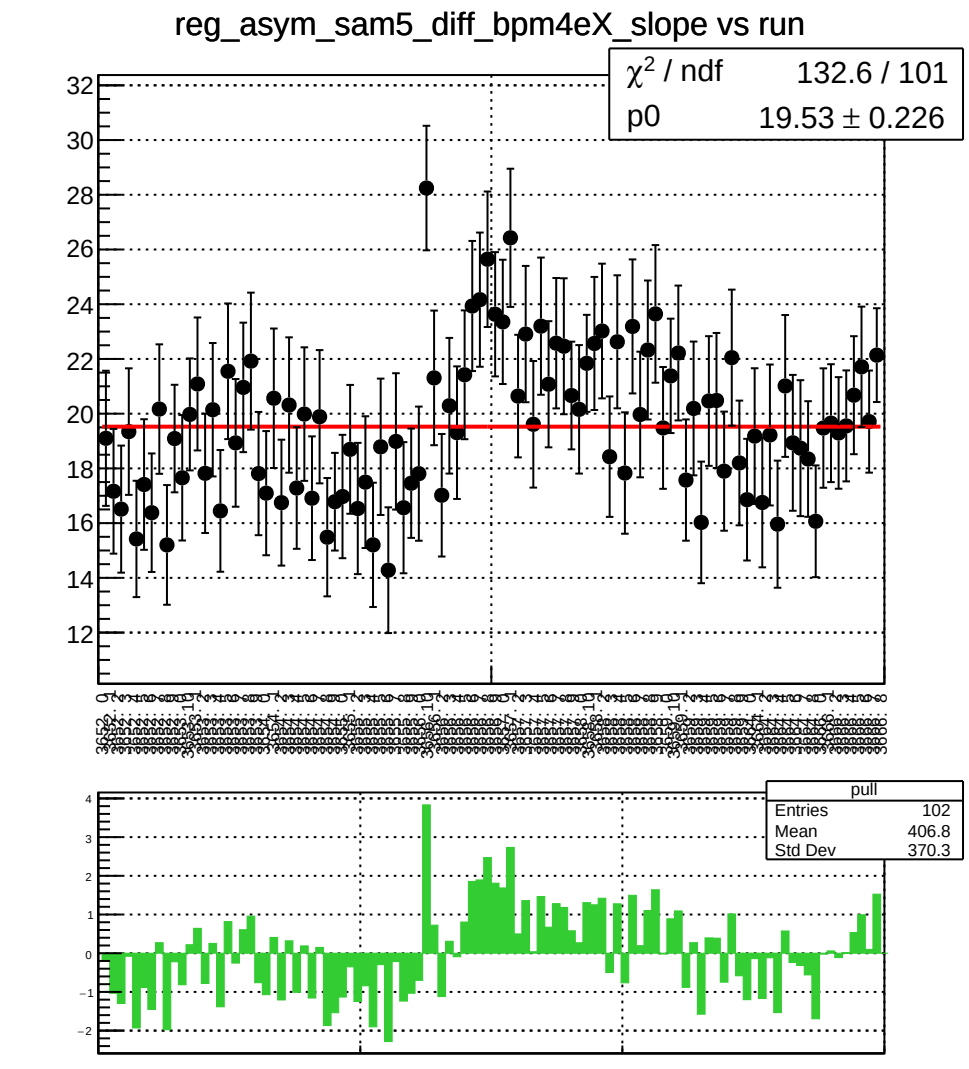

reg_asym_sam4_diff_bpm11X_slope vs run
χ² / ndf 12.82 / 101
p0 −1.3 ± 0.9946
pull
Entries 102
Mean 799.9
Std Dev 753.9
pull1D
Entries 102
Mean −0.00859
Std Dev 0.3545

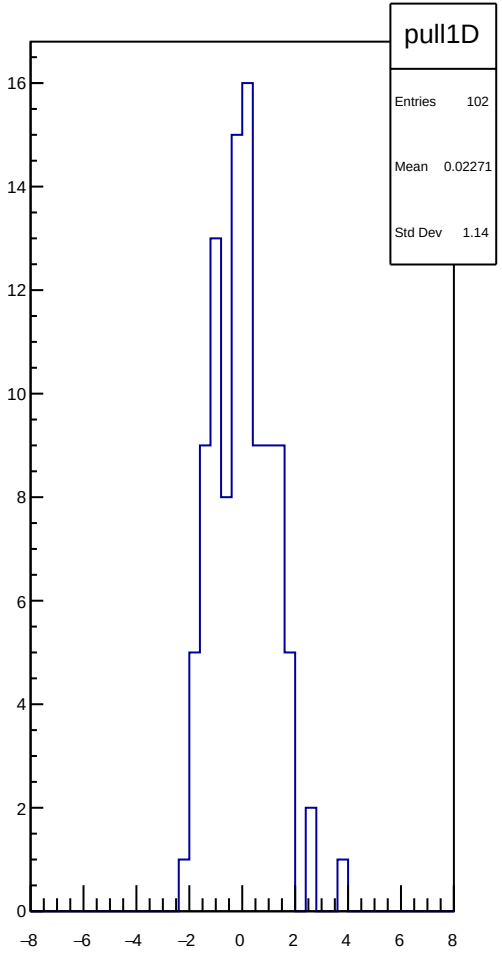

reg_asym_sam5_diff_bpm4aX_slope vs run
χ² / ndf 34.08 / 101
p0 1.703 ± 1.169
pull
Entries 102
Mean 201
Std Dev 155.2

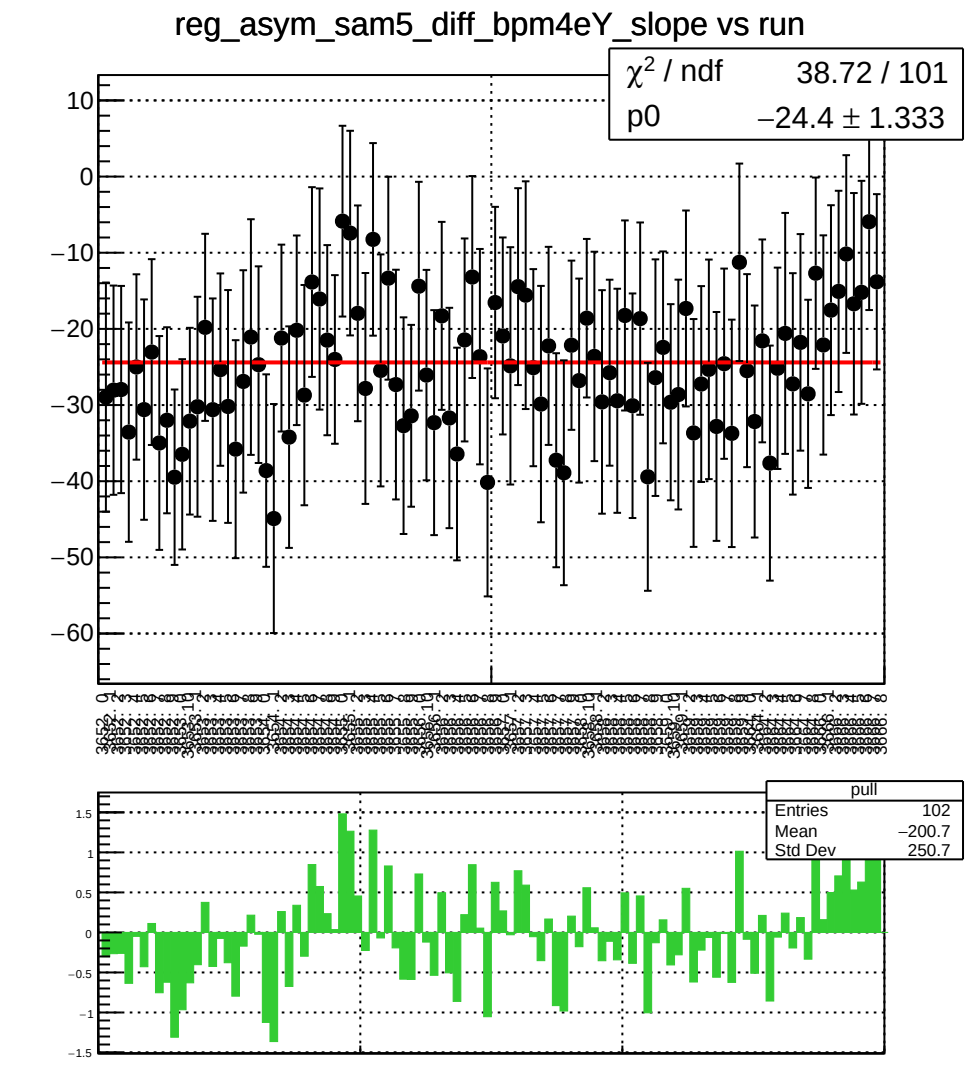

pull1D
Entries 102
Mean −0.02571
Std Dev 0.5774

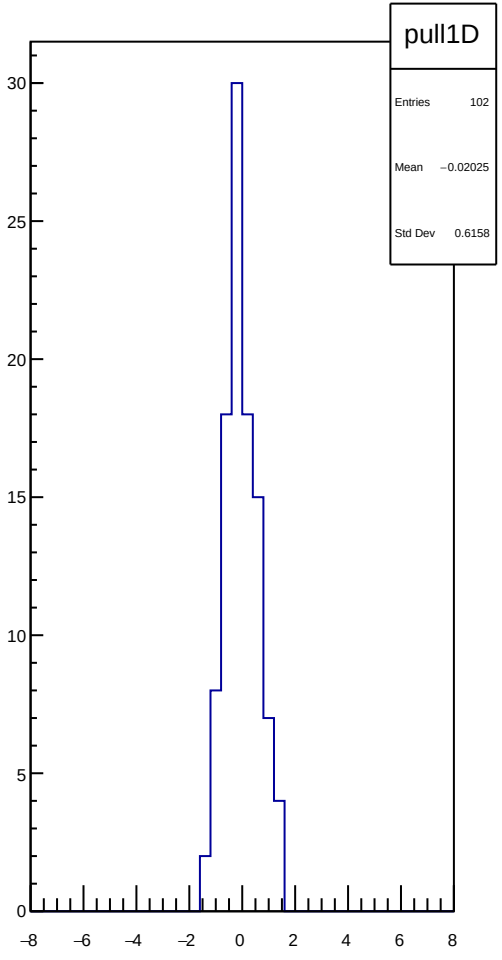

reg_asym_sam5_diff_bpm4aY_slope vs run
χ² / ndf 36.79 / 101
p0 170.4 ± 0.8484
pull
Entries 102
Mean −56.15
Std Dev 123

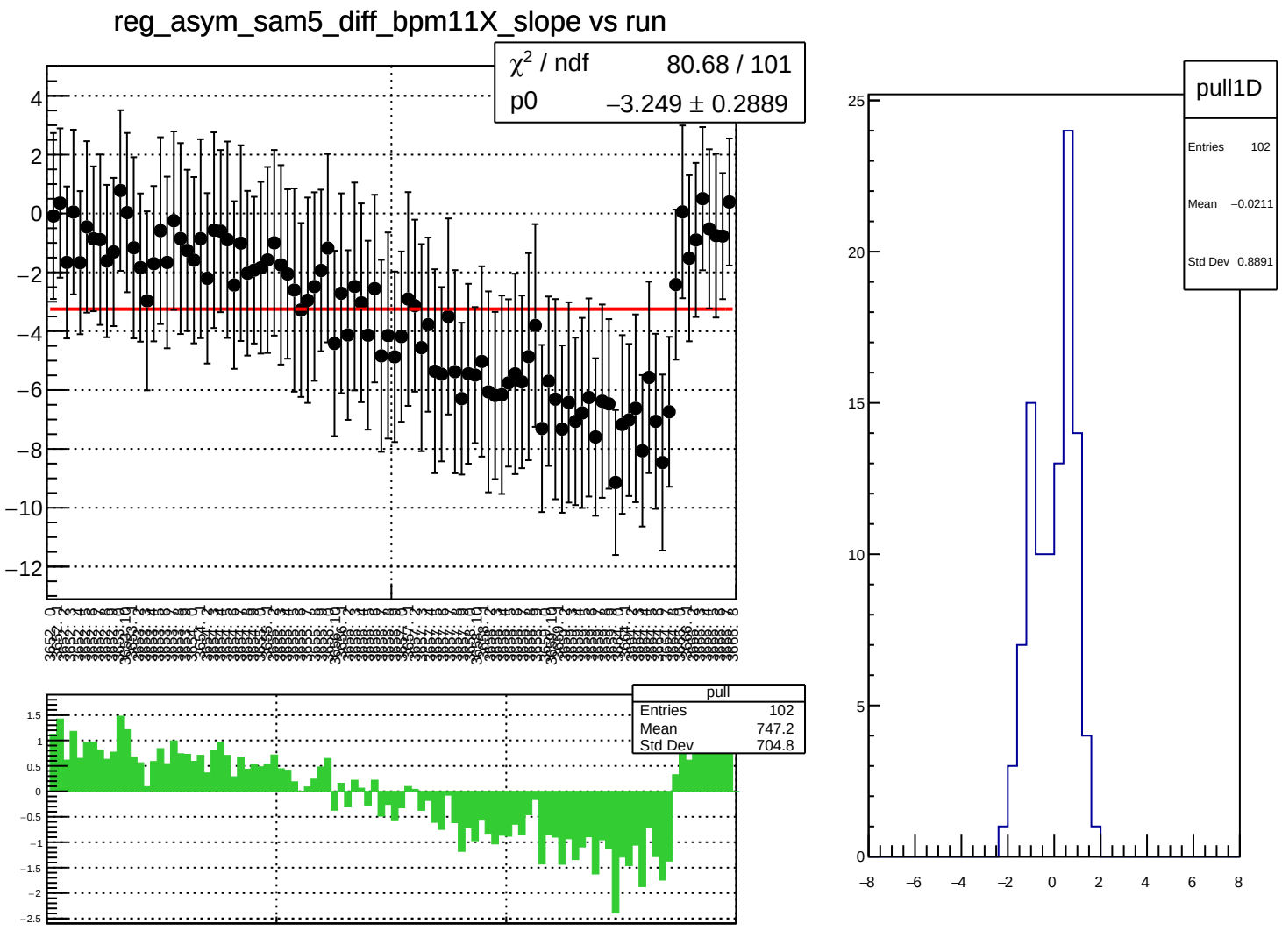

pull1D
Entries 102
Mean 0.02029
Std Dev 0.6002

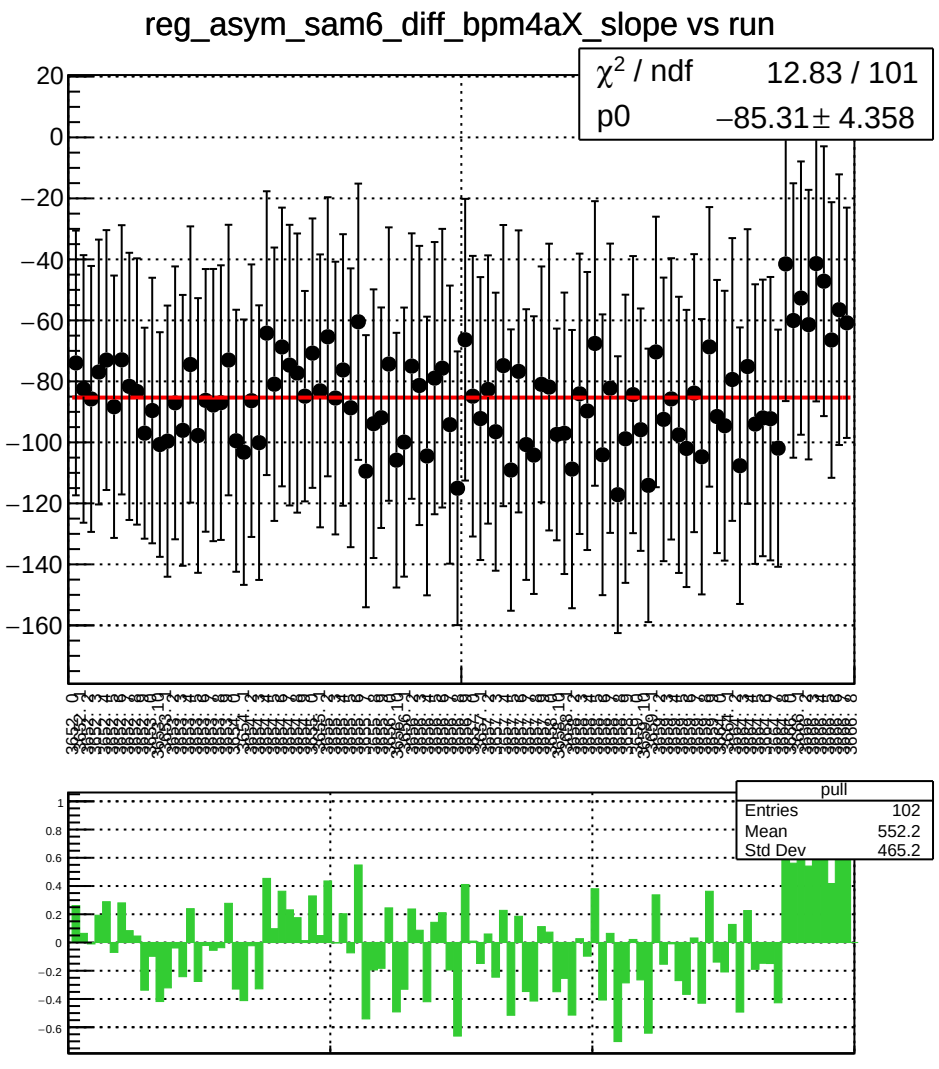

reg_asym_sam5_diff_bpm4eX_slope vs run
χ² / ndf 132.6 / 101
p0 19.53 ± 0.226
pull
Entries 102
Mean 406.8
Std Dev 370.3

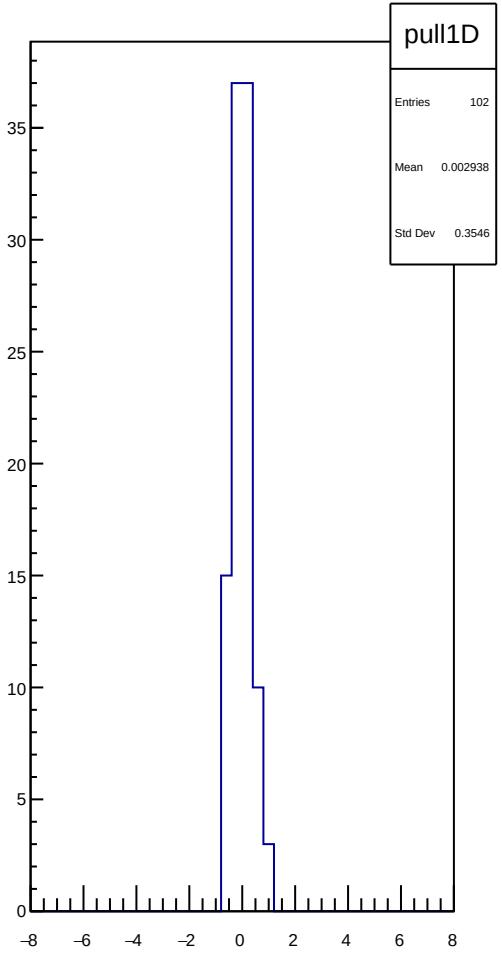

pull1D
Entries 102
Mean 0.02271
Std Dev 1.14

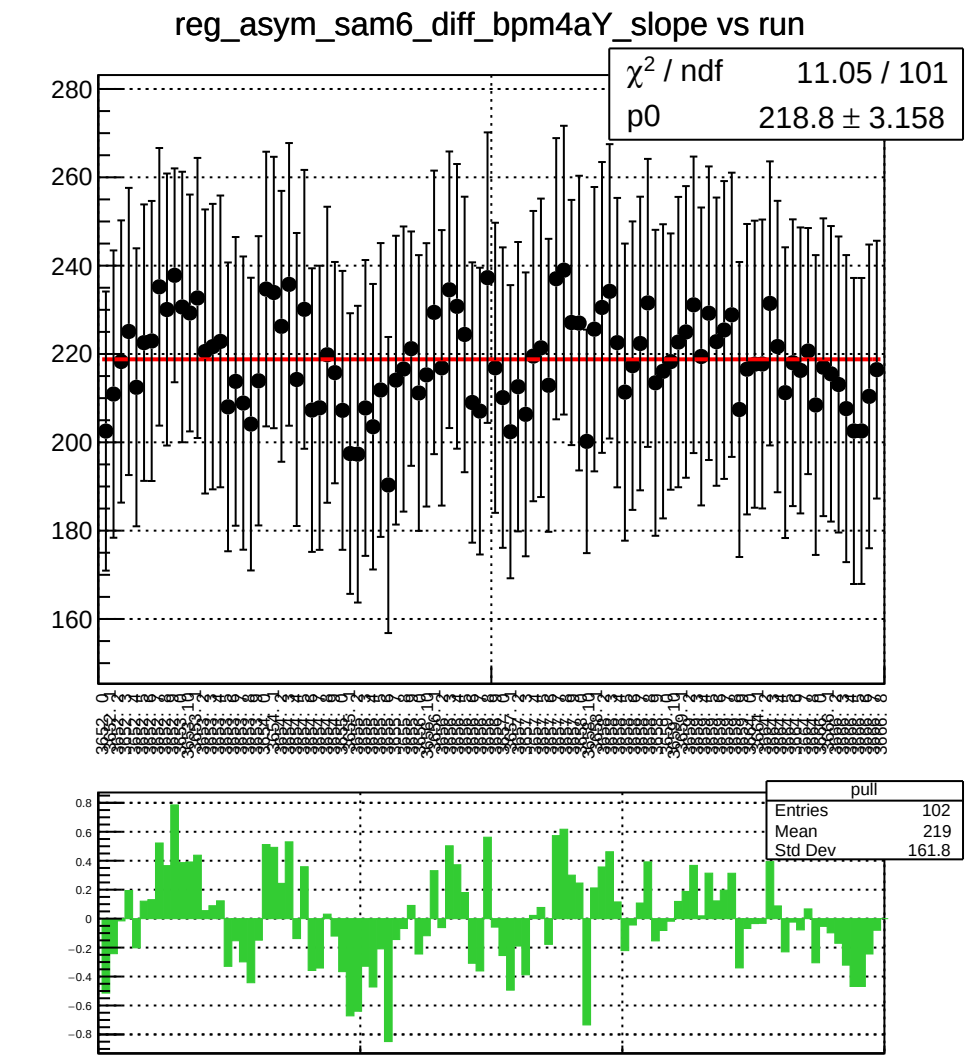

reg_asym_sam5_diff_bpm4eY_slope vs run
χ² / ndf 38.72 / 101
p0 −24.4 ± 1.333
pull
Entries 102
Mean −200.7
Std Dev 250.7

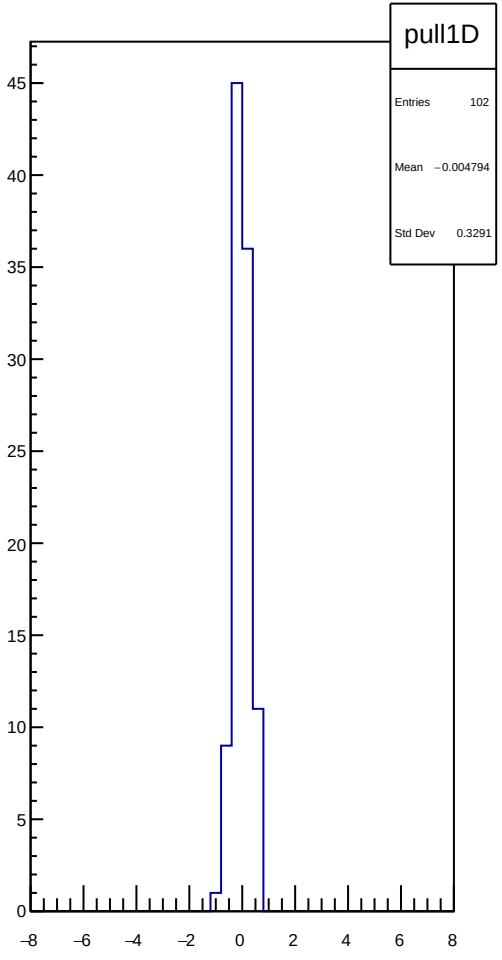

pull1D
Entries 102
Mean −0.02025
Std Dev 0.6158

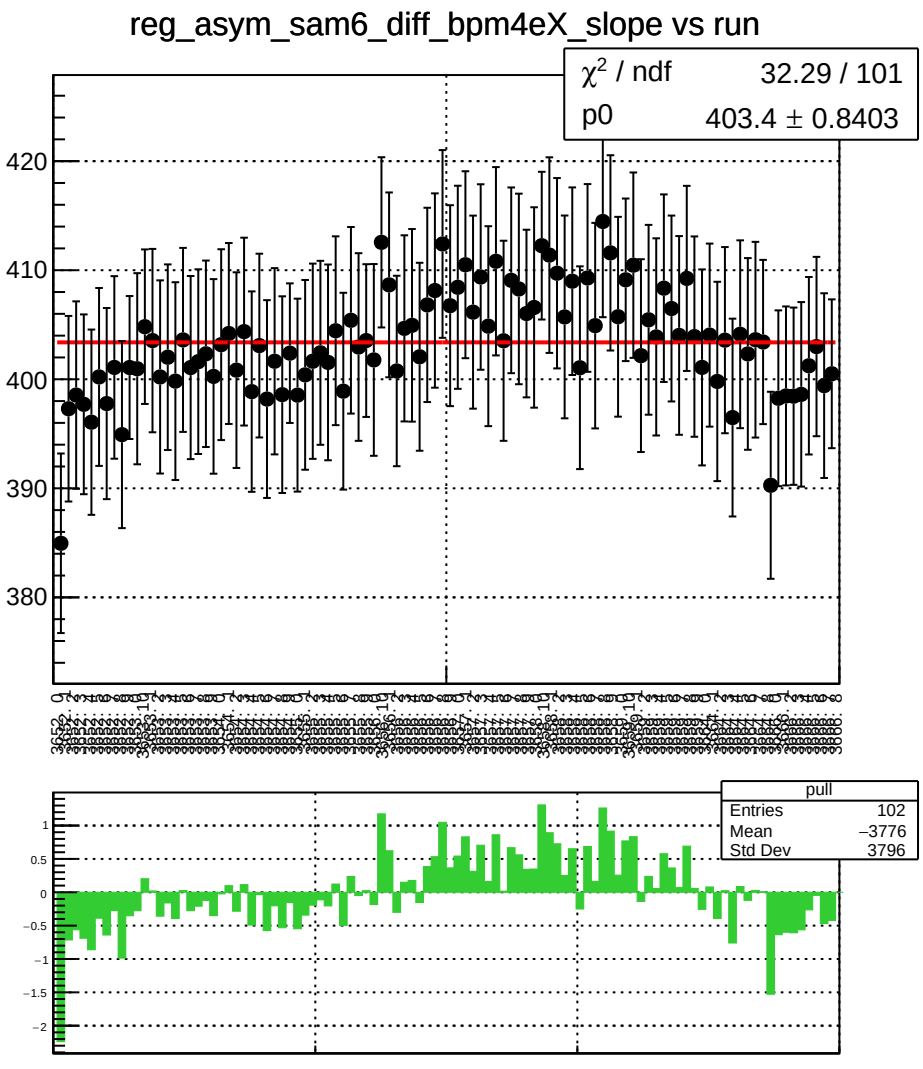

reg_asym_sam5_diff_bpm11X_slope vs run
χ² / ndf 80.68 / 101
p0 −3.249 ± 0.2889
pull
Entries 102
Mean 747.2
Std Dev 704.8
pull1D
Entries 102
Mean −0.0211
Std Dev 0.8891

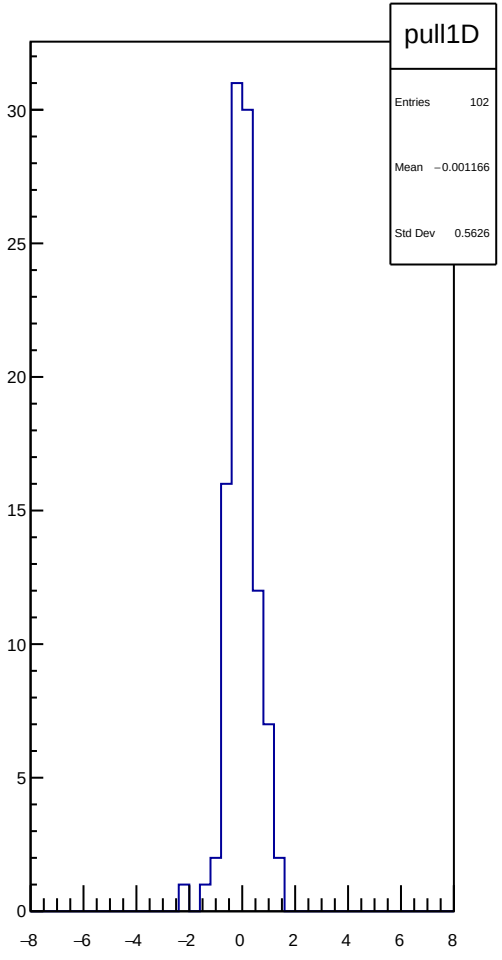

reg_asym_sam6_diff_bpm4aX_slope vs run
χ² / ndf 12.83 / 101
p0 −85.31 ± 4.358
pull
Entries 102
Mean 552.2
Std Dev 465.2

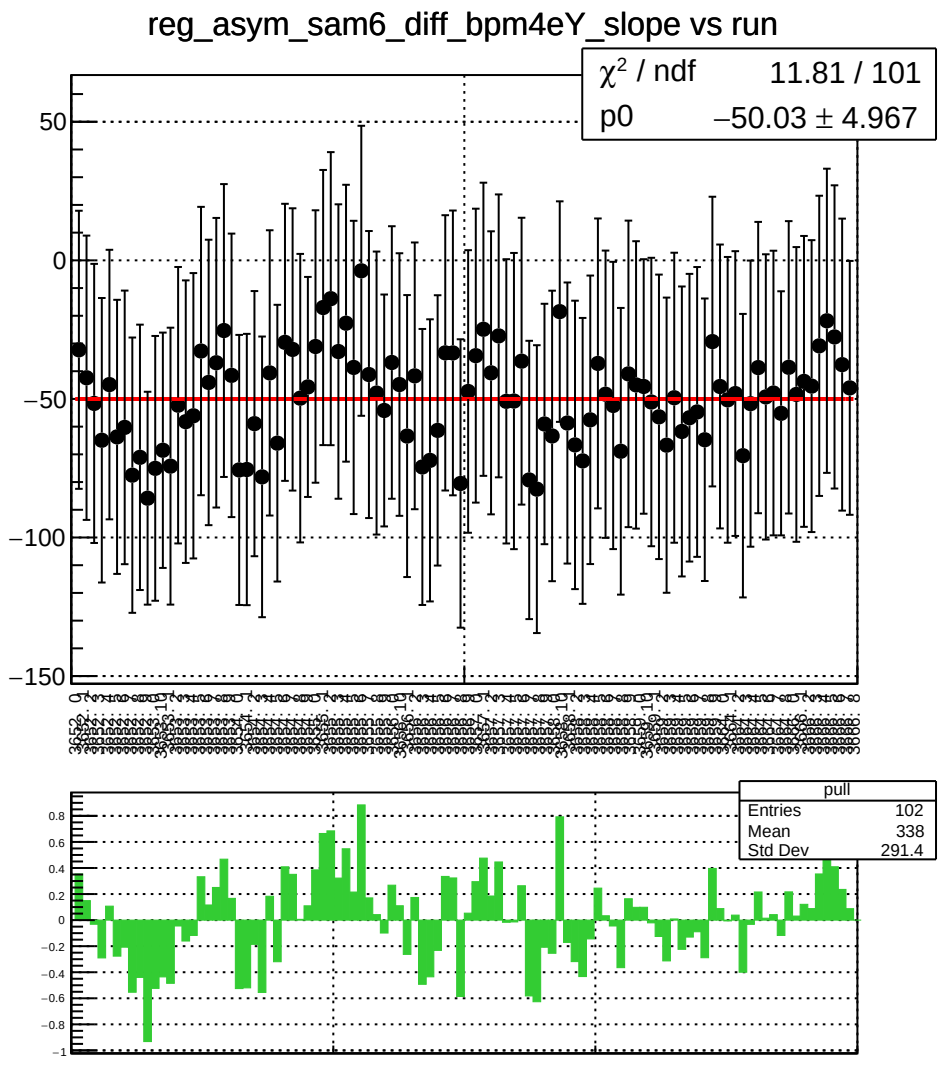

pull1D
Entries 102
Mean 0.002938
Std Dev 0.3546

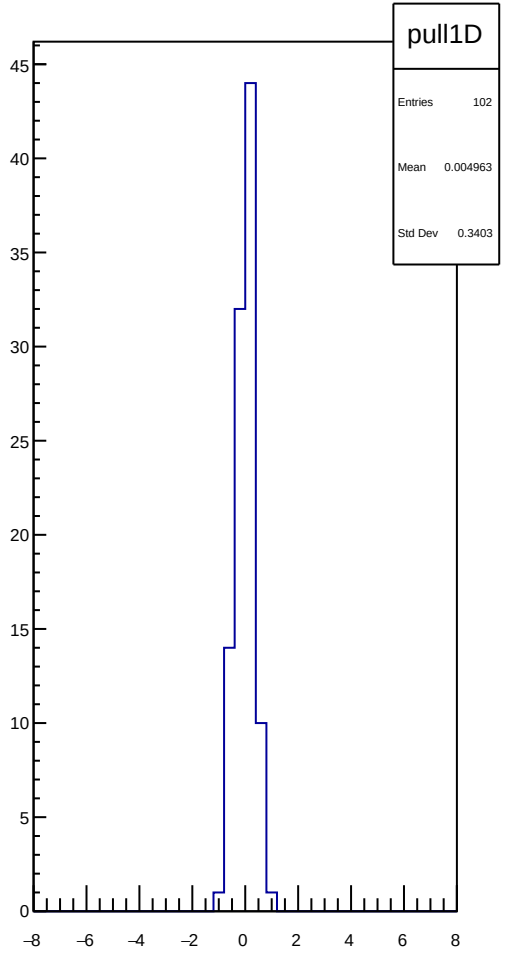

reg_asym_sam6_diff_bpm4aY_slope vs run
χ² / ndf 11.05 / 101
p0 218.8 ± 3.158
pull
Entries 102
Mean 219
Std Dev 161.8

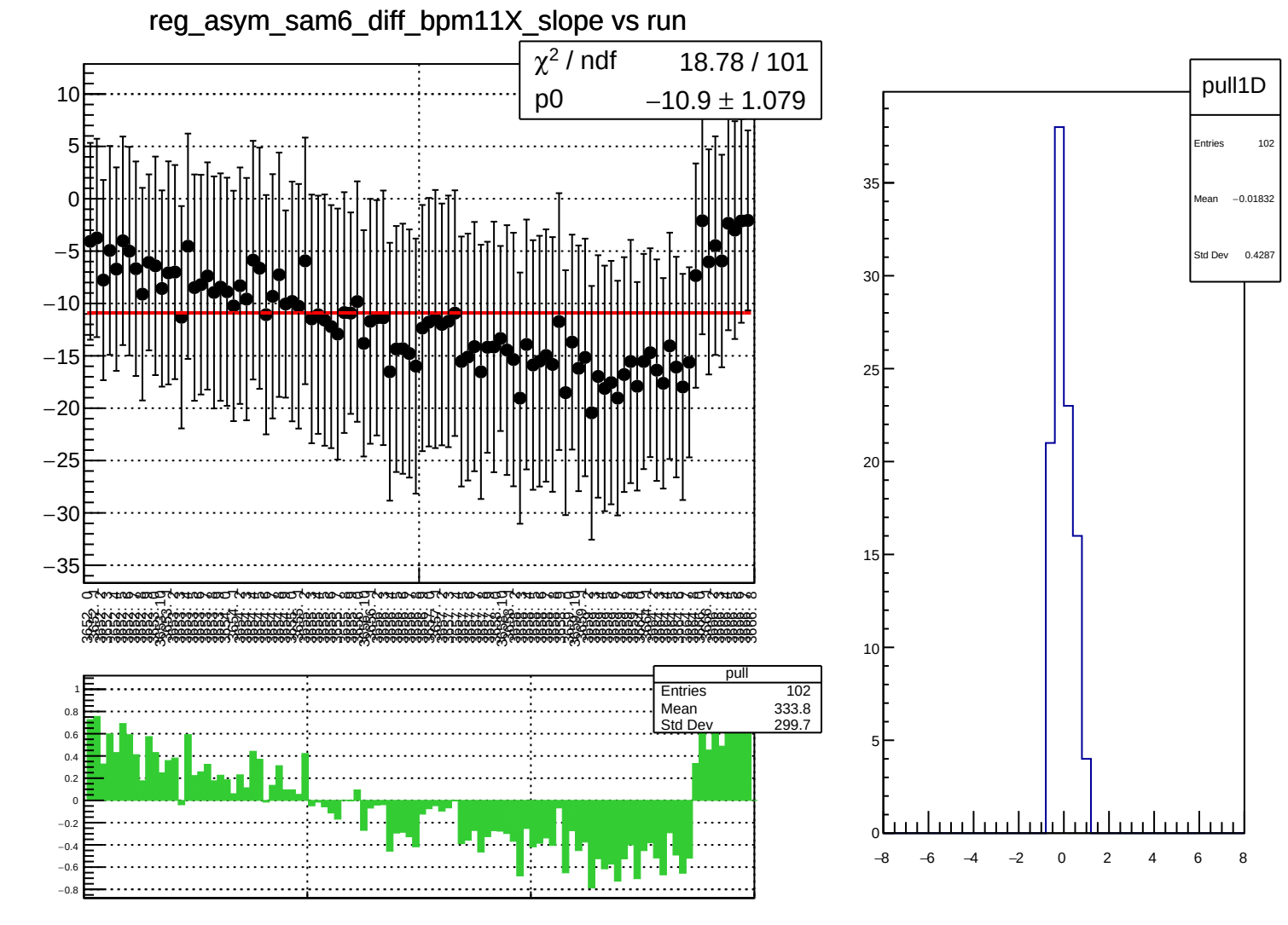

pull1D
Entries 102
Mean −0.004794
Std Dev 0.3291

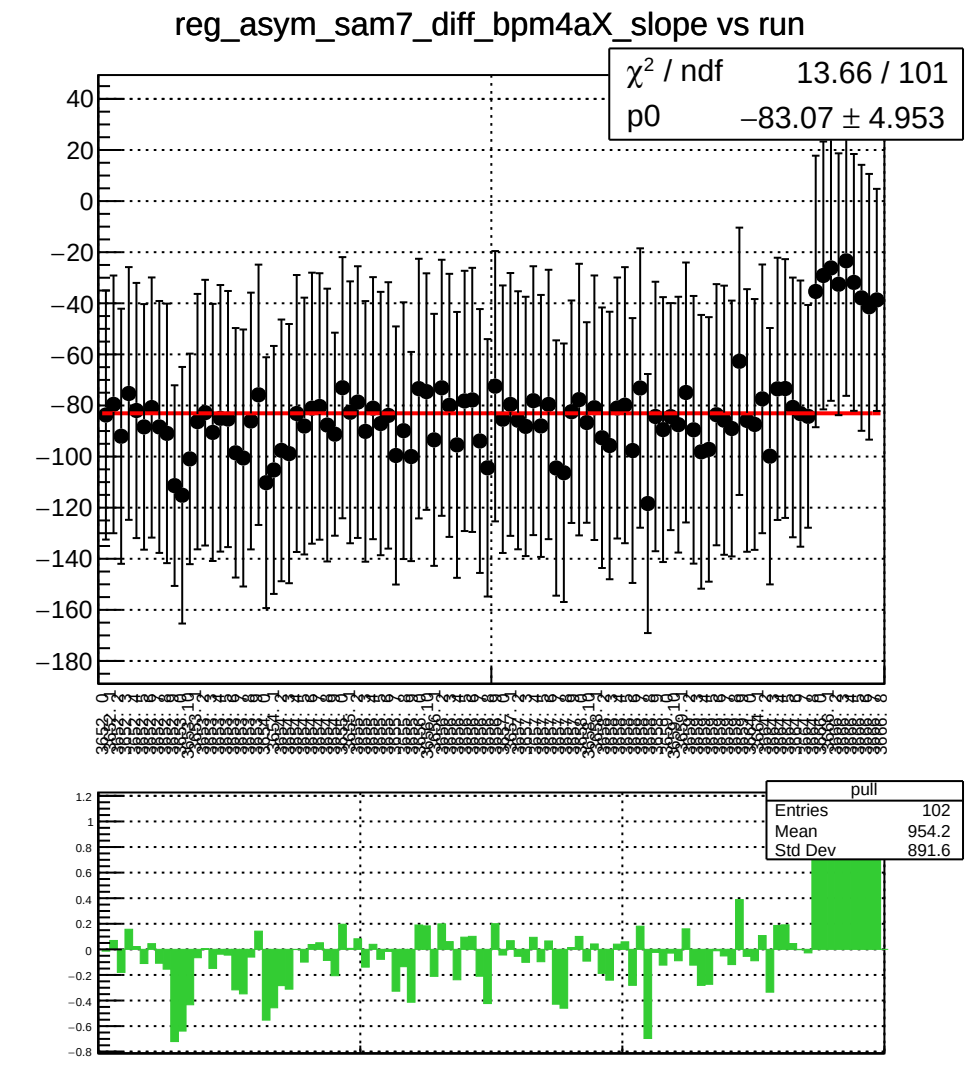

reg_asym_sam6_diff_bpm4eX_slope vs run
χ² / ndf 32.29 / 101
p0 403.4 ± 0.8403
420
410
400
390
380
pull
Entries 102
Mean −3776
Std Dev 3796
1
0.5
0
−0.5
−1
−1.5
−2

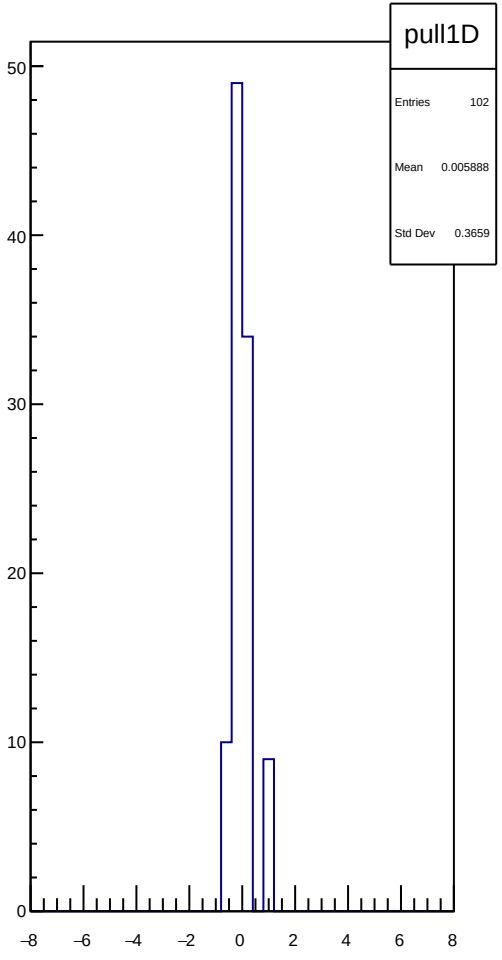

pull1D
Entries 102
Mean −0.001166
Std Dev 0.5626
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

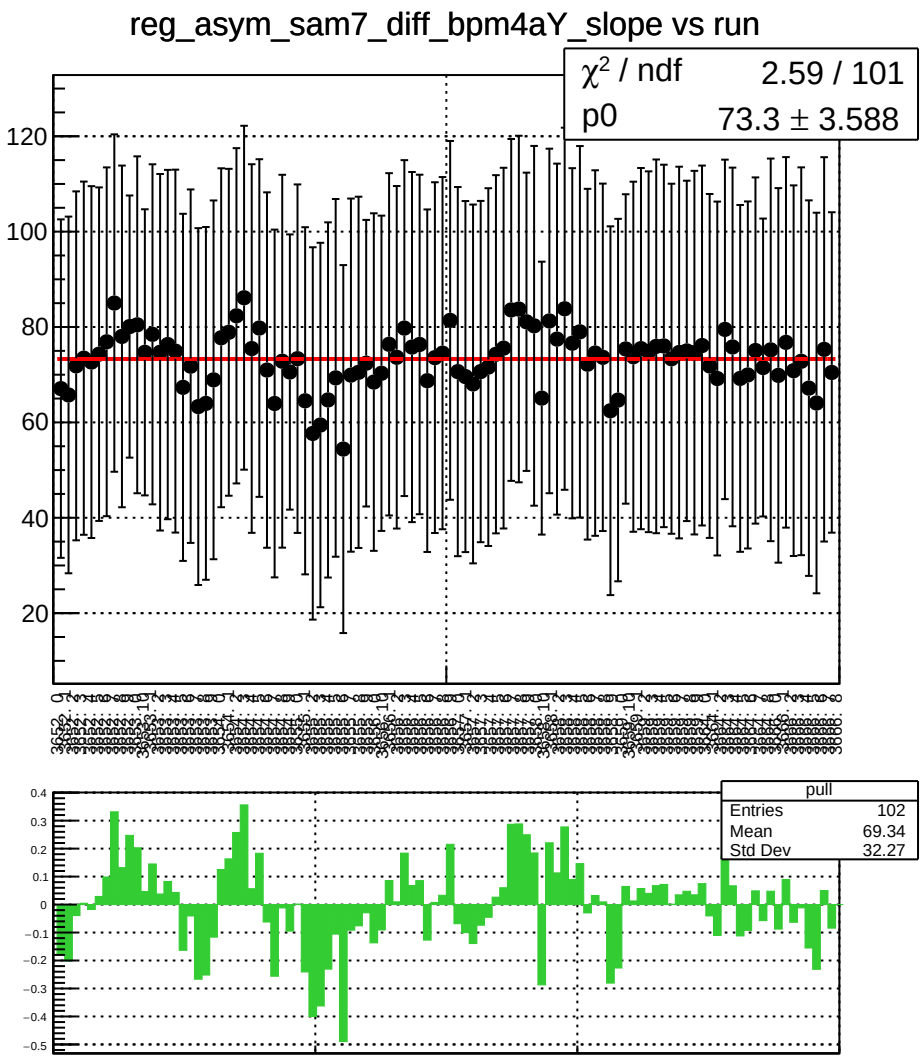

reg_asym_sam6_diff_bpm4eY_slope vs run
χ² / ndf 11.81 / 101
p0 −50.03 ± 4.967
50
0
−50
−100
−150
pull
Entries 102
Mean 338
Std Dev 291.4
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

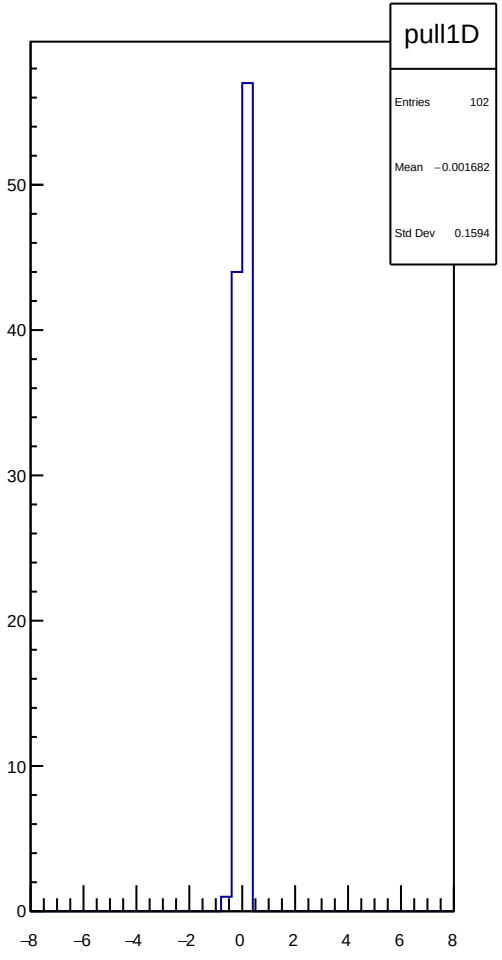

pull1D
Entries 102
Mean 0.004963
Std Dev 0.3403
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

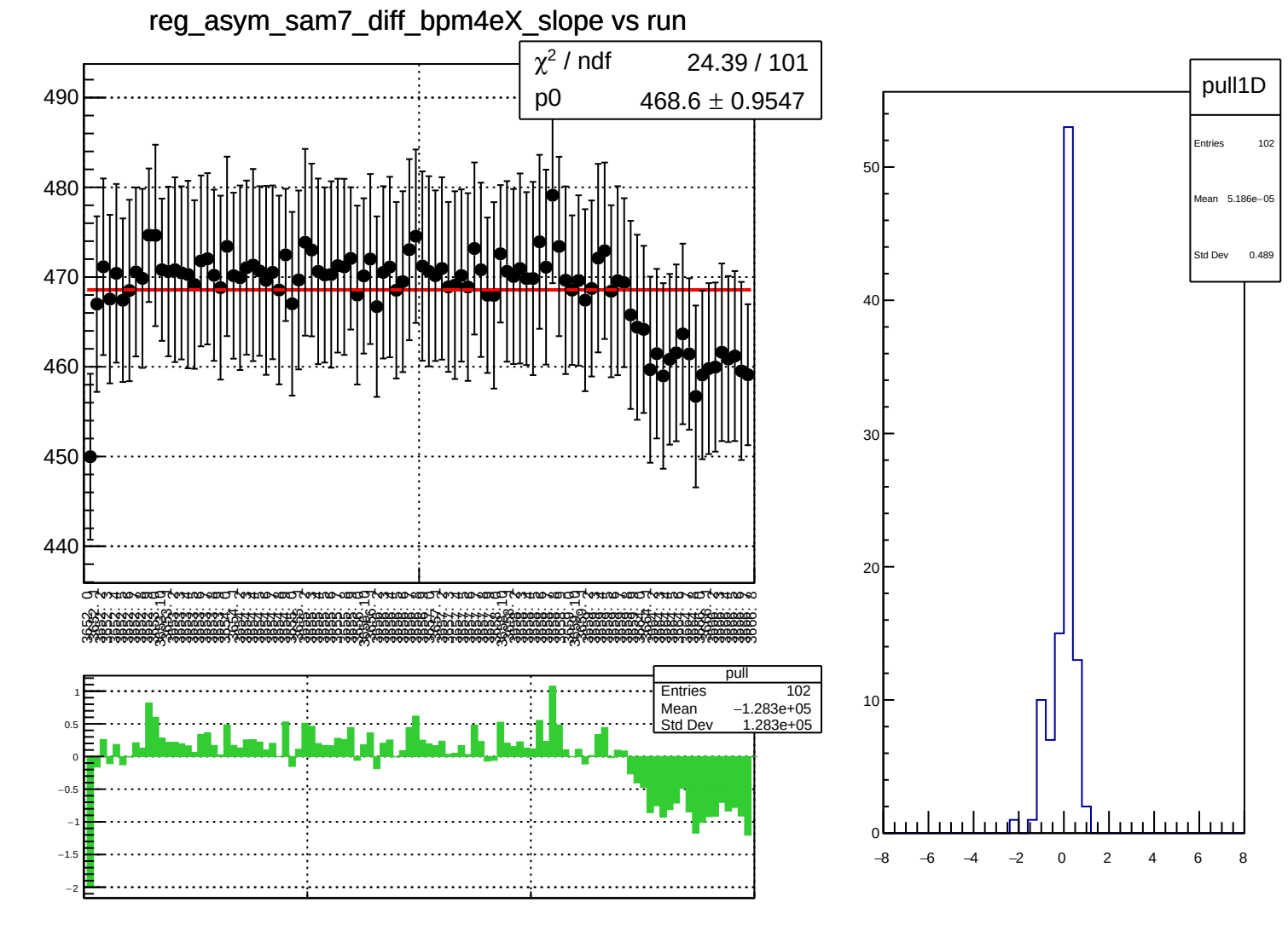

reg_asym_sam6_diff_bpm11X_slope vs run
χ² / ndf 18.78 / 101
p0 −10.9 ± 1.079
pull
Entries 102
Mean 333.8
Std Dev 299.7
pull1D
Entries 102
Mean −0.01832
Std Dev 0.4287

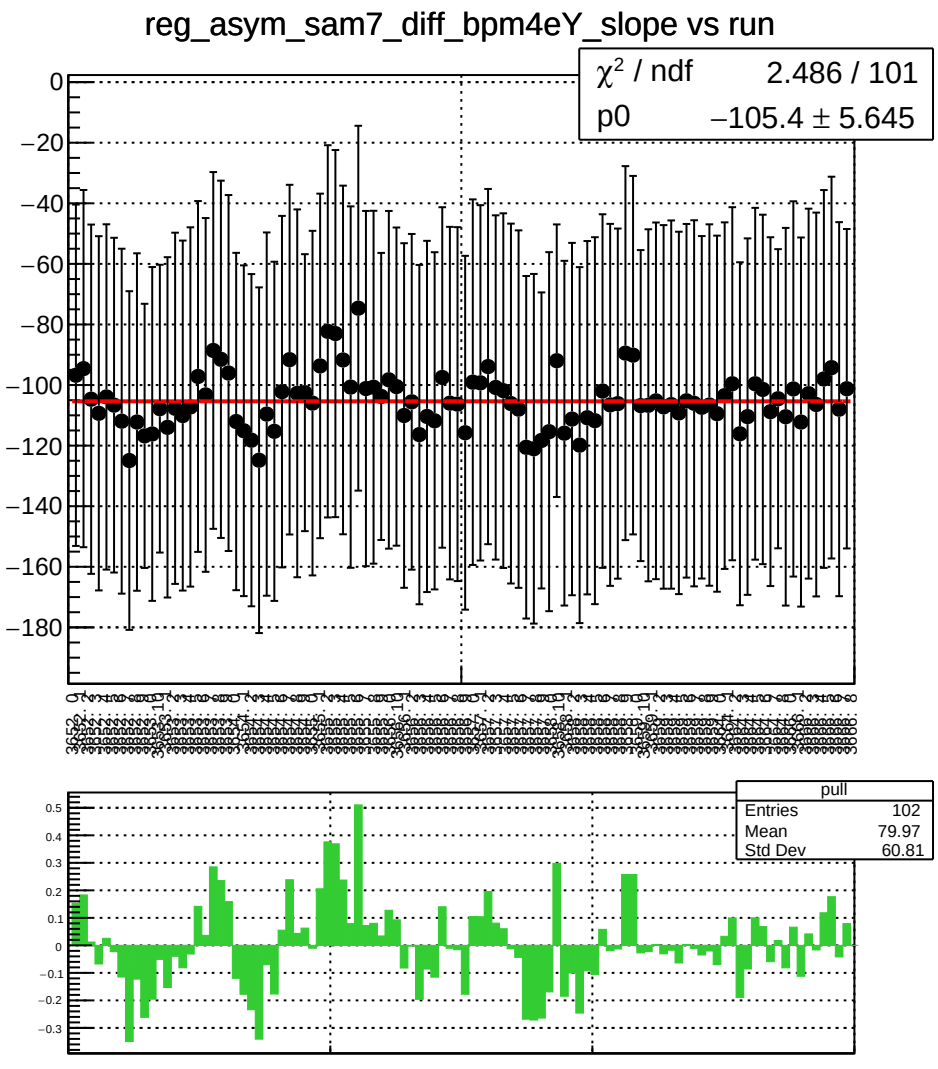

reg_asym_sam7_diff_bpm4aX_slope vs run
χ² / ndf 13.66 / 101
p0 −83.07 ± 4.953
pull
Entries 102
Mean 954.2
Std Dev 891.6

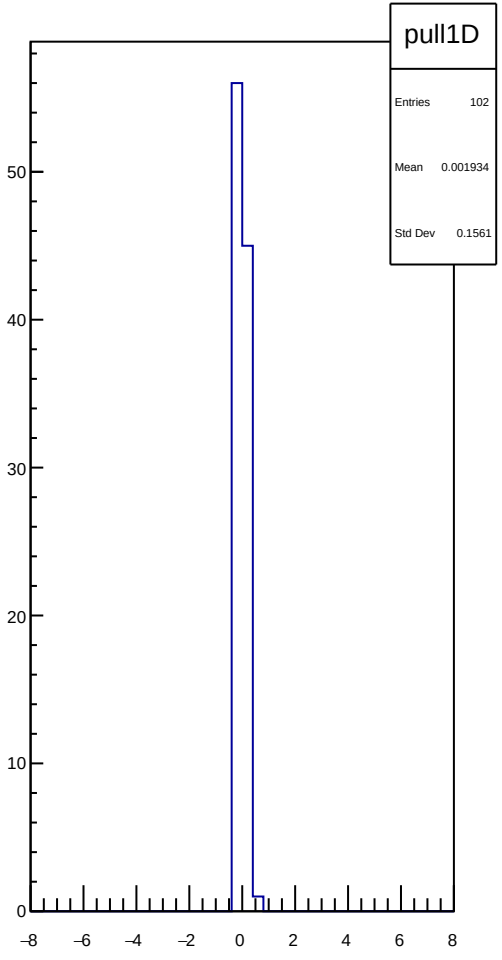

pull1D
Entries 102
Mean 0.005888
Std Dev 0.3659

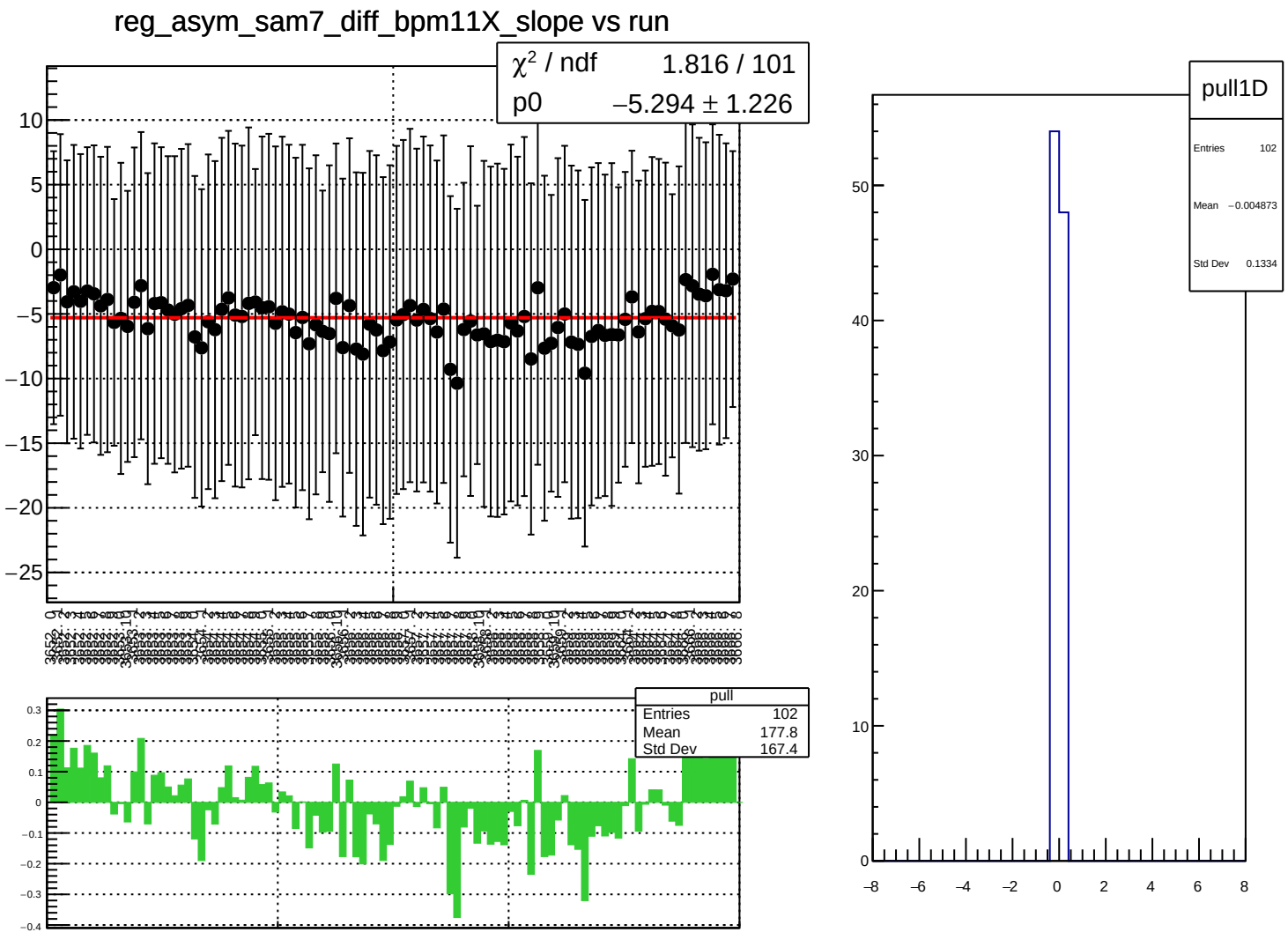

reg_asym_sam7_diff_bpm4aY_slope vs run
χ² / ndf 2.59 / 101
p0 73.3 ± 3.588
pull
Entries 102
Mean 69.34
Std Dev 32.27

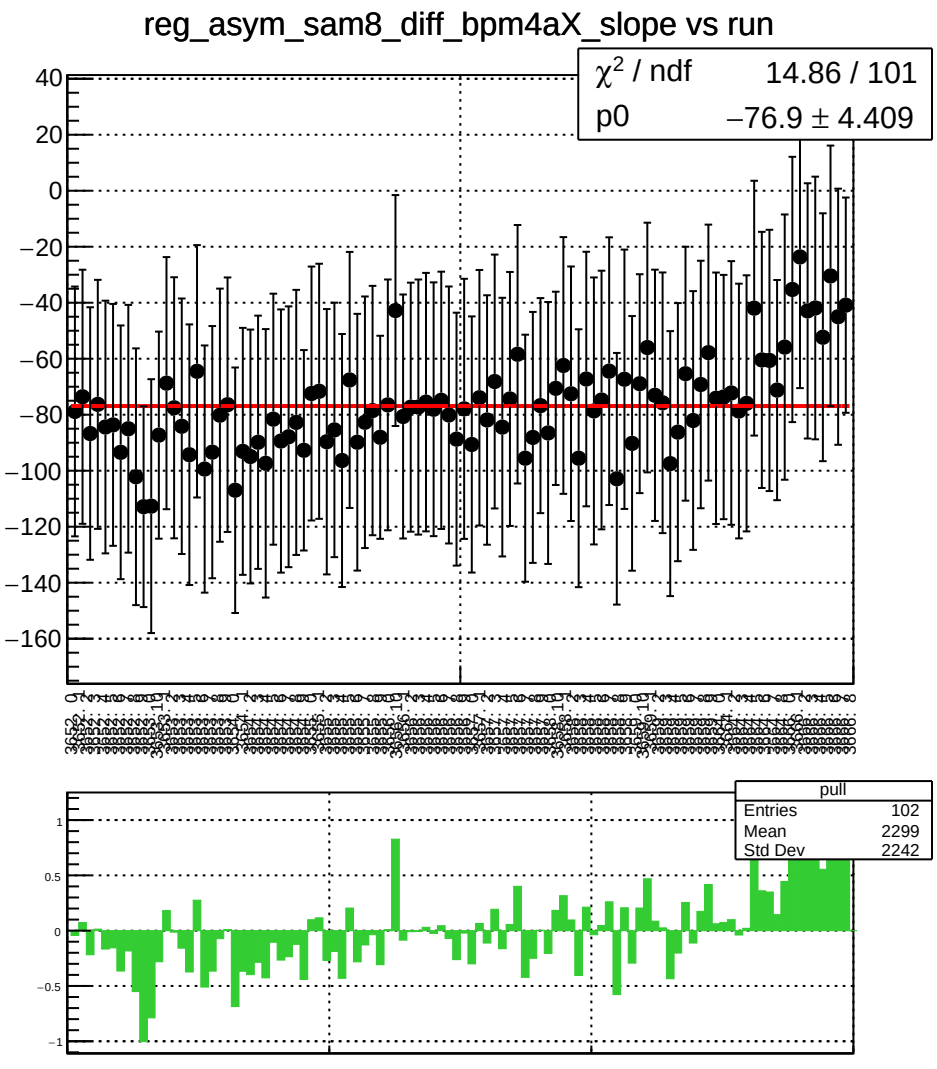

pull1D
Entries 102
Mean −0.001682
Std Dev 0.1594

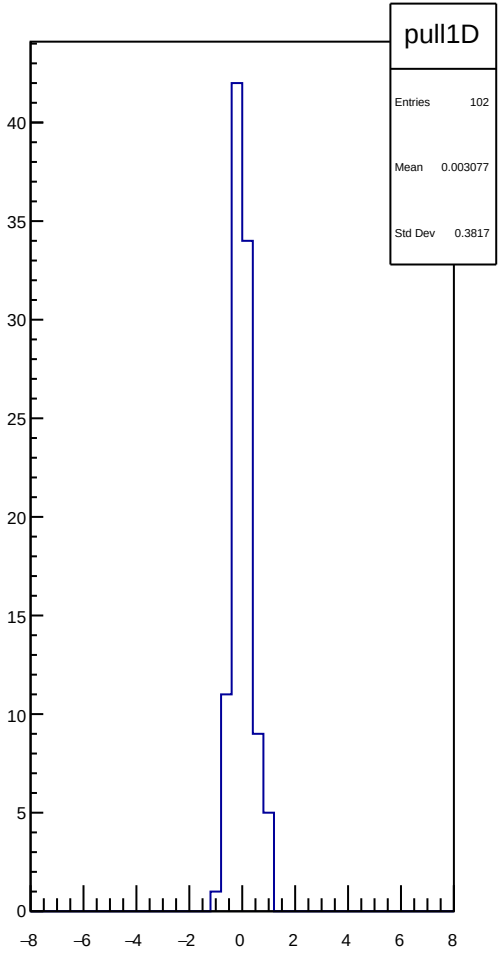

reg_asym_sam7_diff_bpm4eX_slope vs run
χ² / ndf 24.39 / 101
p0 468.6 ± 0.9547
490
480
470
460
450
440
pull
Entries 102
Mean −1.283e+05
Std Dev 1.283e+05
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean 5.186e−05
Std Dev 0.489
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

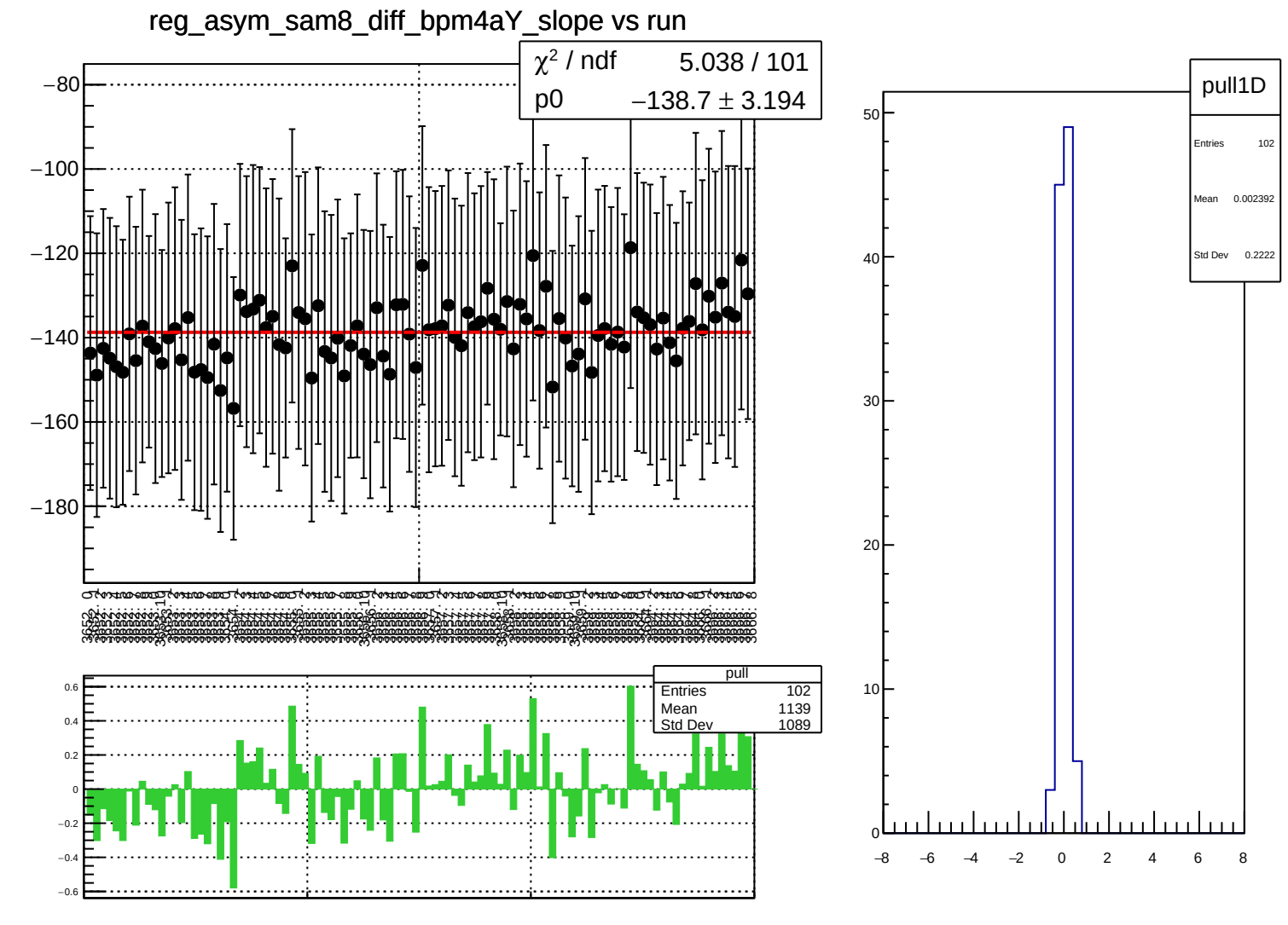

reg_asym_sam7_diff_bpm4eY_slope vs run
χ² / ndf 2.486 / 101
p0 −105.4 ± 5.645
pull
Entries 102
Mean 79.97
Std Dev 60.81

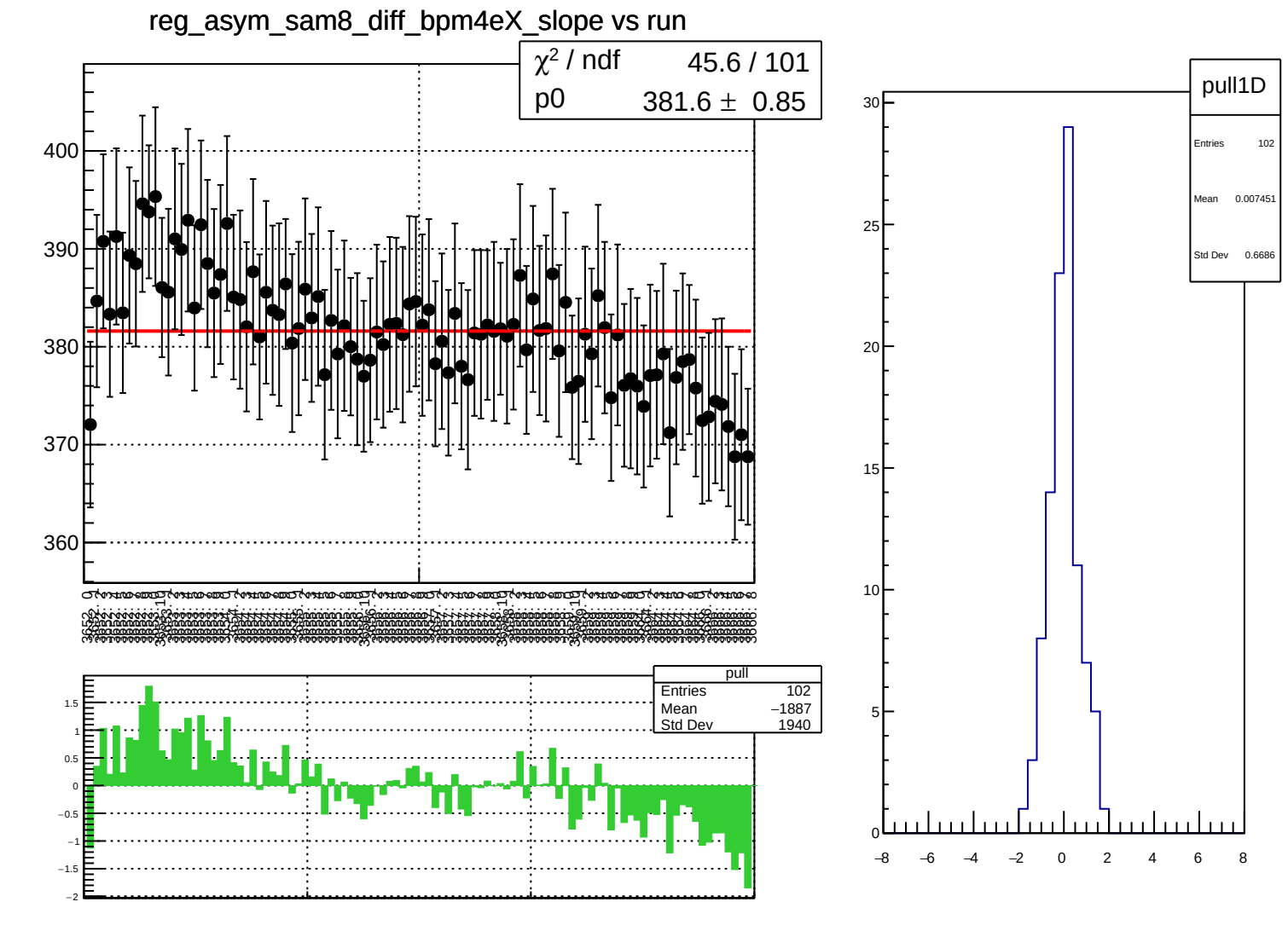

pull1D
Entries 102
Mean 0.001934
Std Dev 0.1561

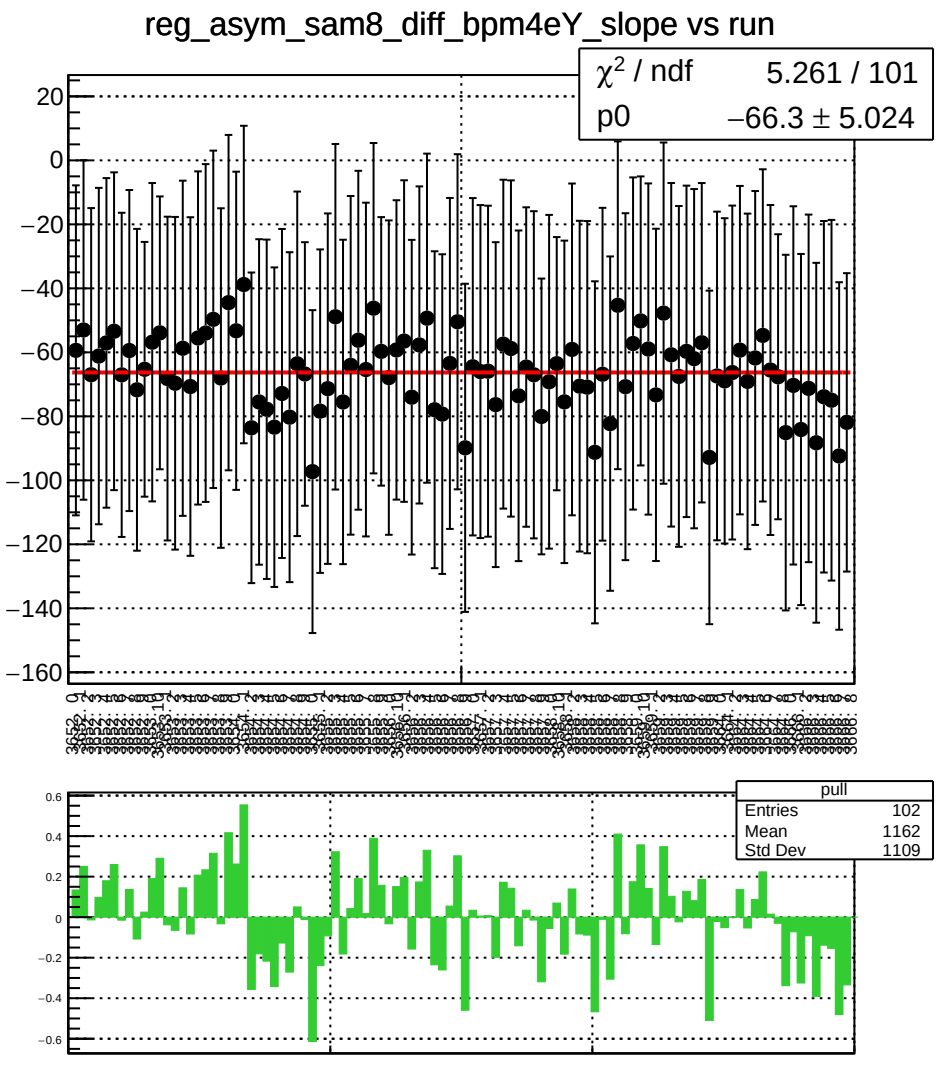

reg_asym_sam7_diff_bpm11X_slope vs run
χ² / ndf 1.816 / 101
p0 −5.294 ± 1.226
pull
Entries 102
Mean 177.8
Std Dev 167.4
pull1D
Entries 102
Mean −0.004873
Std Dev 0.1334

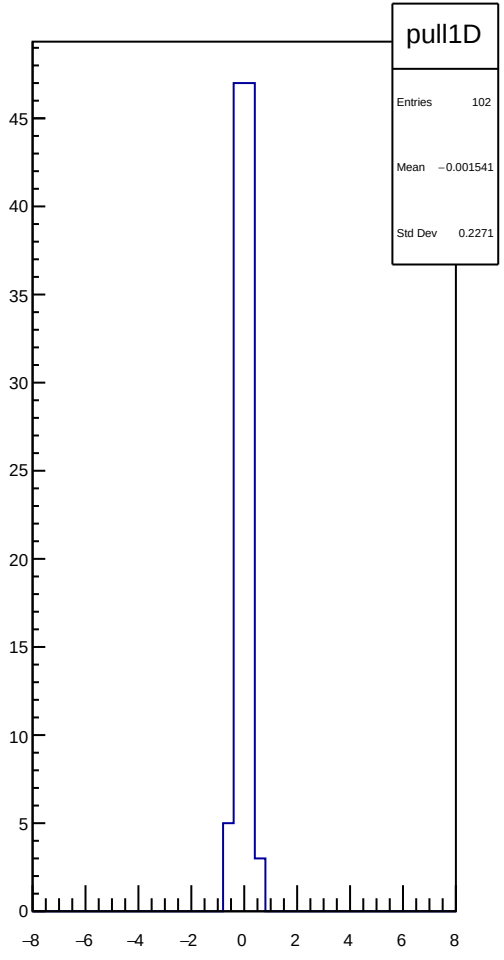

reg_asym_sam8_diff_bpm4aX_slope vs run
χ² / ndf 14.86 / 101
p0 −76.9 ± 4.409
pull
Entries 102
Mean 2299
Std Dev 2242

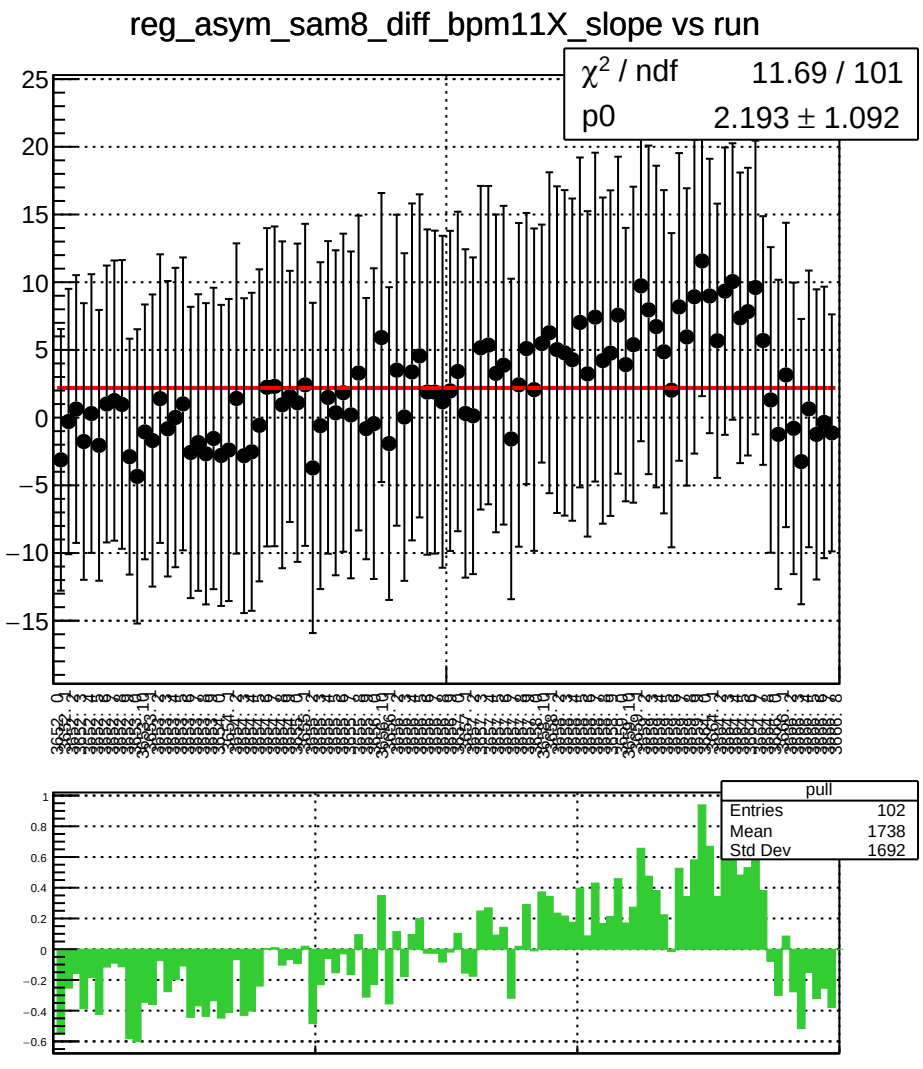

pull1D
Entries 102
Mean 0.003077
Std Dev 0.3817

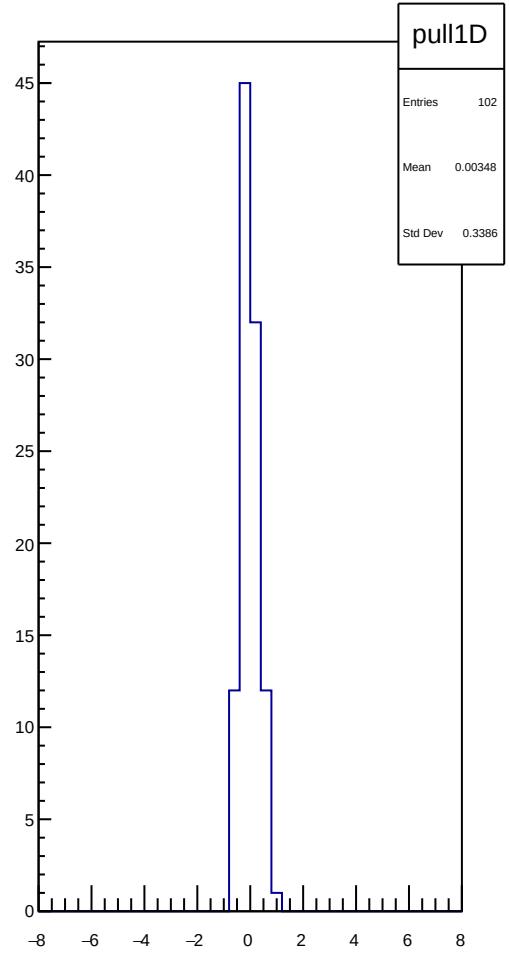

reg_asym_sam8_diff_bpm4aY_slope vs run
χ² / ndf 5.038 / 101
p0 −138.7 ± 3.194
−80
−100
−120
−140
−160
−180
pull
Entries 102
Mean 1139
Std Dev 1089
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 102
Mean 0.002392
Std Dev 0.2222
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

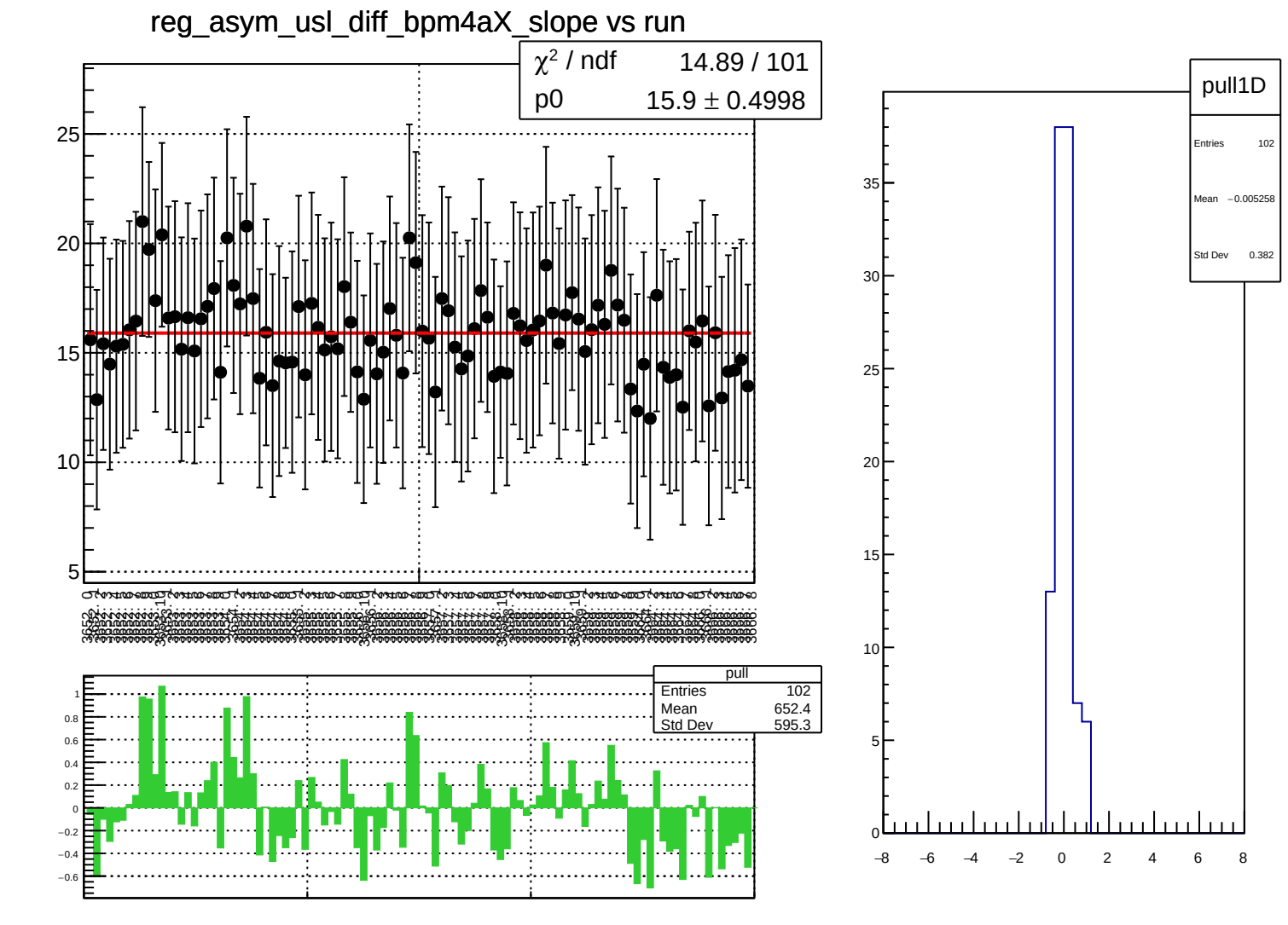

reg_asym_sam8_diff_bpm4eX_slope vs run
χ² / ndf 45.6 / 101
p0 381.6 ± 0.85
400
390
380
370
360
pull
Entries 102
Mean −1887
Std Dev 1940
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean 0.007451
Std Dev 0.6686
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

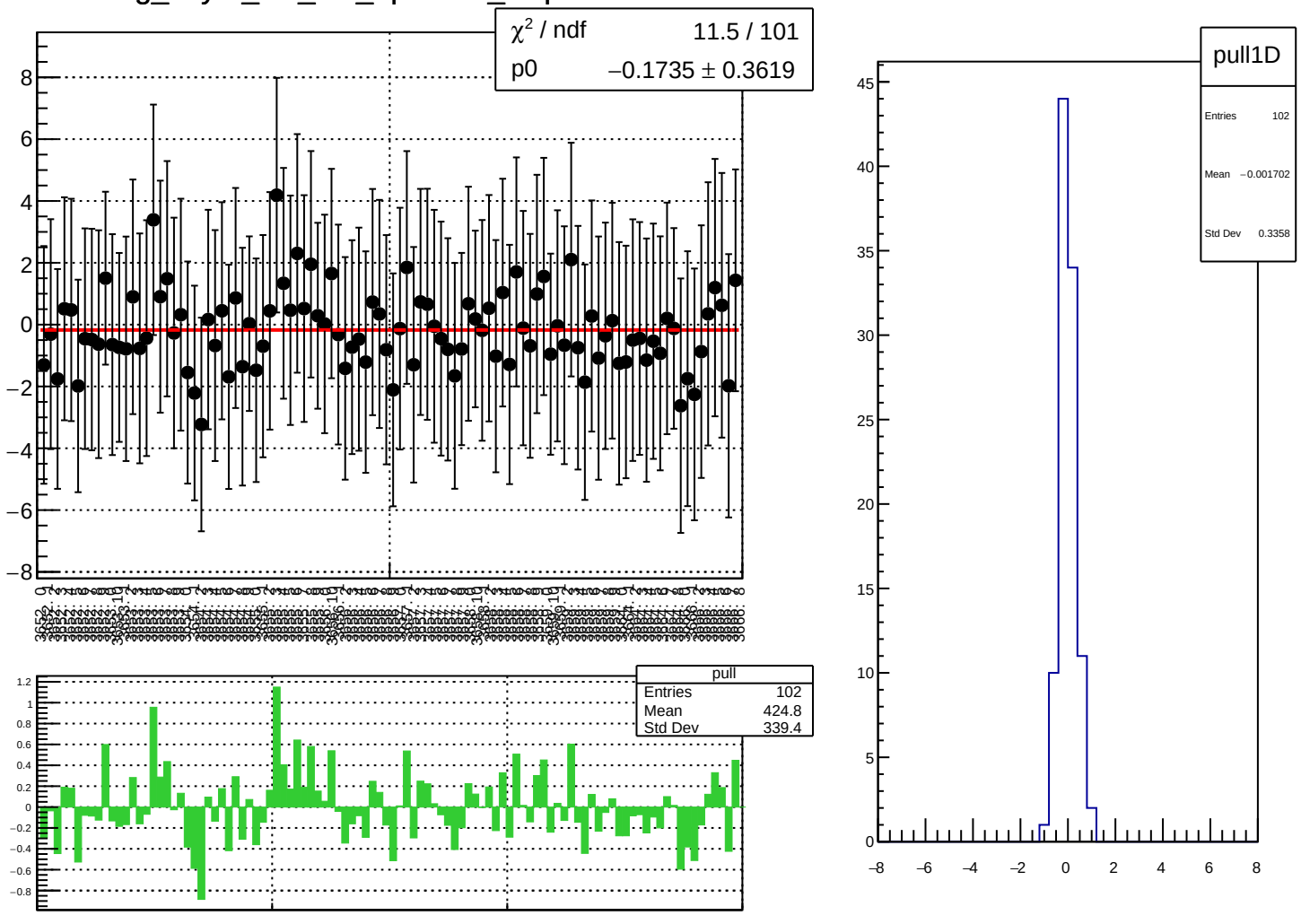

reg_asym_sam8_diff_bpm4eY_slope vs run
χ² / ndf 5.261 / 101
p0 −66.3 ± 5.024
pull
Entries 102
Mean 1162
Std Dev 1109

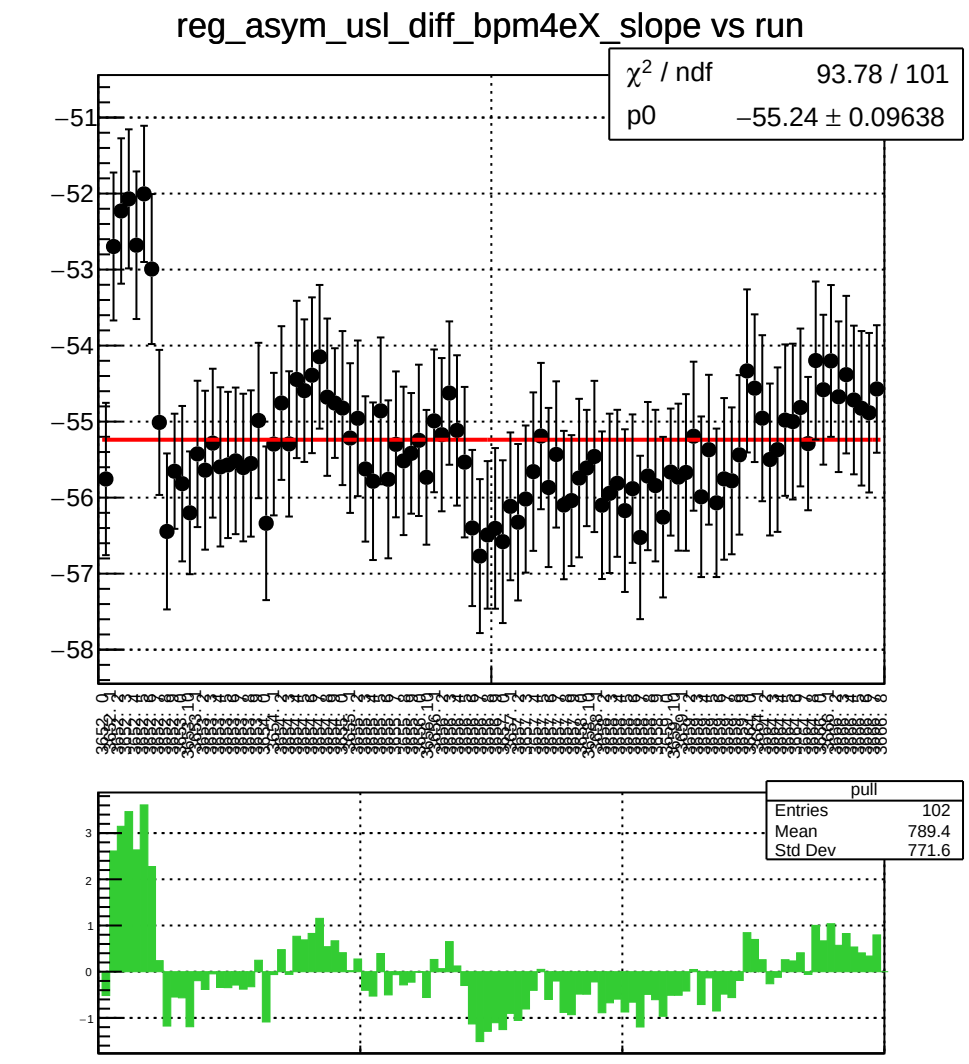

pull1D
Entries 102
Mean −0.001541
Std Dev 0.2271

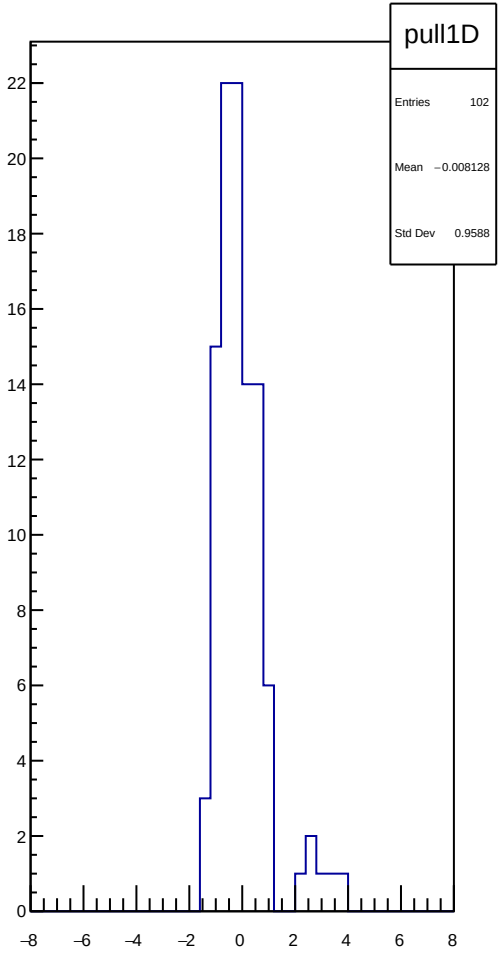

reg_asym_sam8_diff_bpm11X_slope vs run
χ² / ndf 11.69 / 101
p0 2.193 ± 1.092
pull
Entries 102
Mean 1738
Std Dev 1692

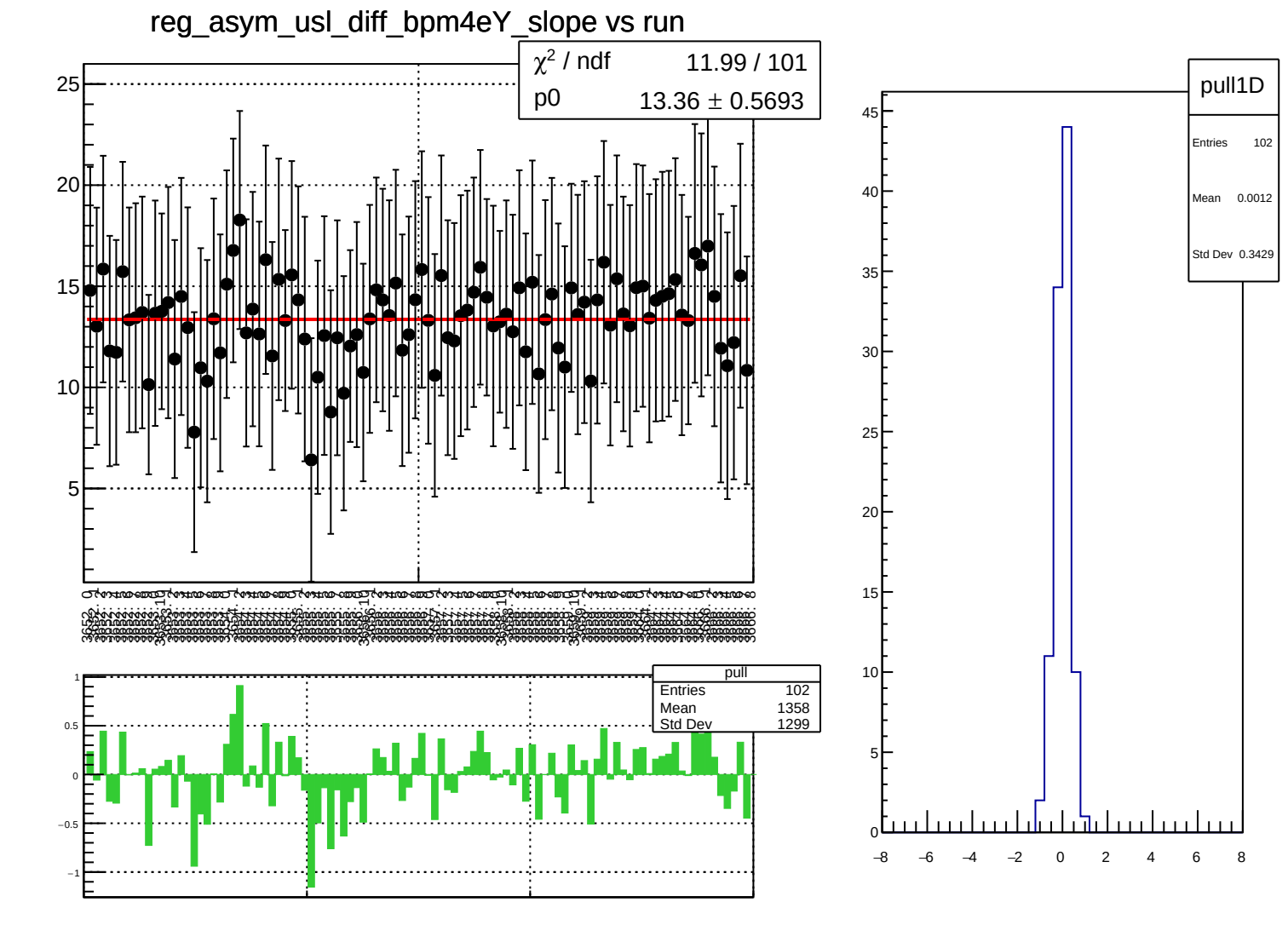

pull1D
Entries 102
Mean 0.00348
Std Dev 0.3386

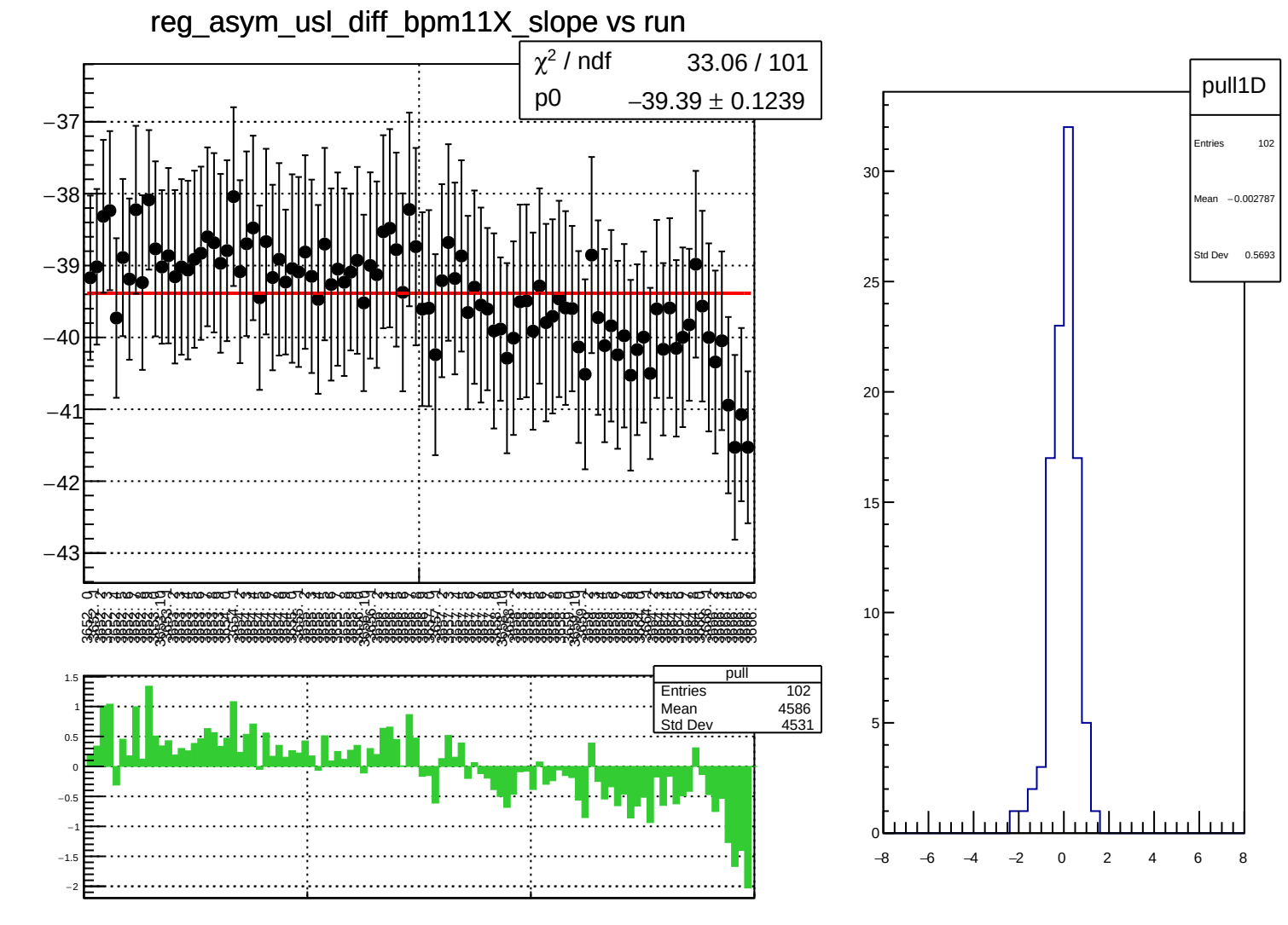

reg_asym_usl_diff_bpm4aX_slope vs run
χ² / ndf 14.89 / 101
p0 15.9 ± 0.4998
pull
Entries 102
Mean 652.4
Std Dev 595.3
pull1D
Entries 102
Mean −0.005258
Std Dev 0.382

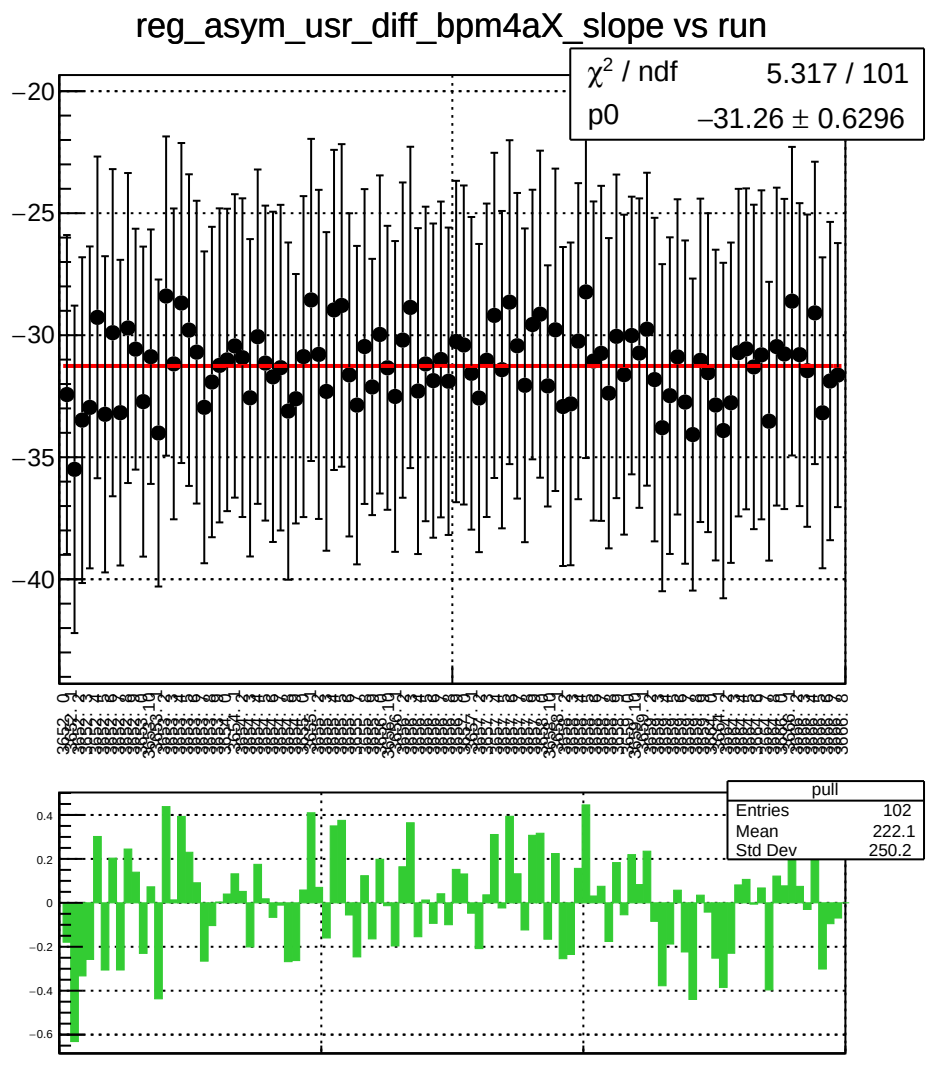

reg_asym_usl_diff_bpm4aY_slope vs run
χ² / ndf 11.5 / 101
p0 −0.1735 ± 0.3619
pull
Entries 102
Mean 424.8
Std Dev 339.4
pull1D
Entries 102
Mean −0.001702
Std Dev 0.3358

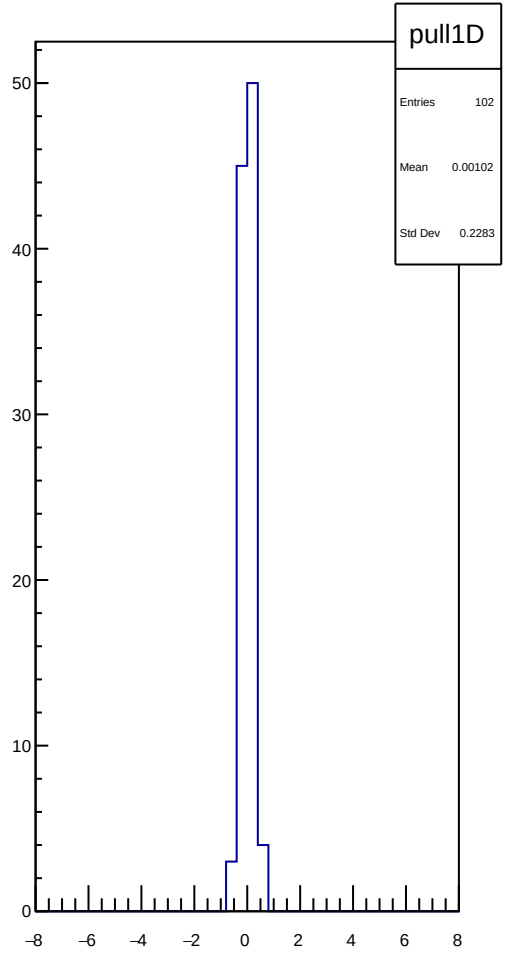

reg_asym_usl_diff_bpm4eX_slope vs run
χ² / ndf 93.78 / 101
p0 −55.24 ± 0.09638
pull
Entries 102
Mean 789.4
Std Dev 771.6

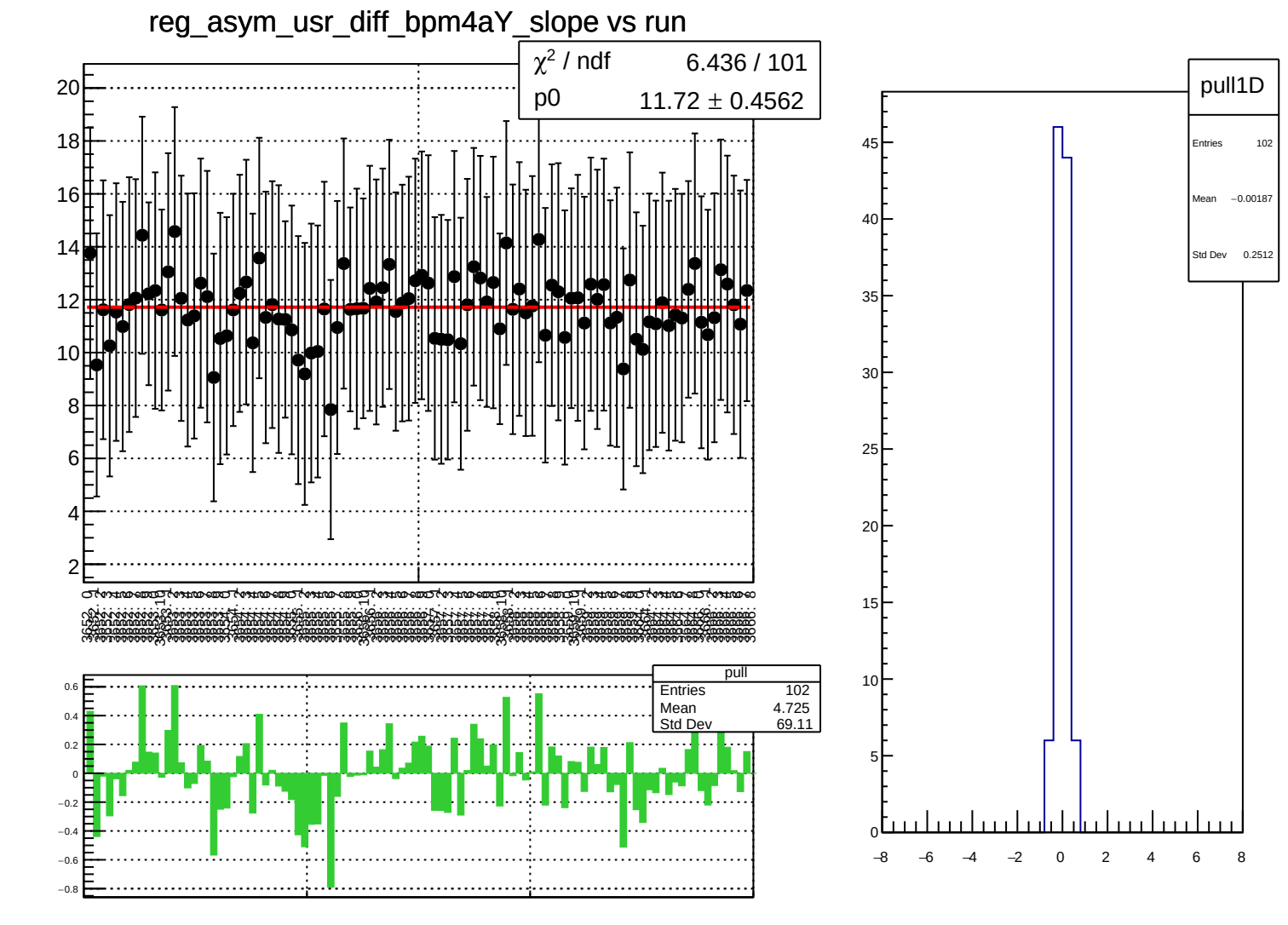

pull1D
Entries 102
Mean −0.008128
Std Dev 0.9588

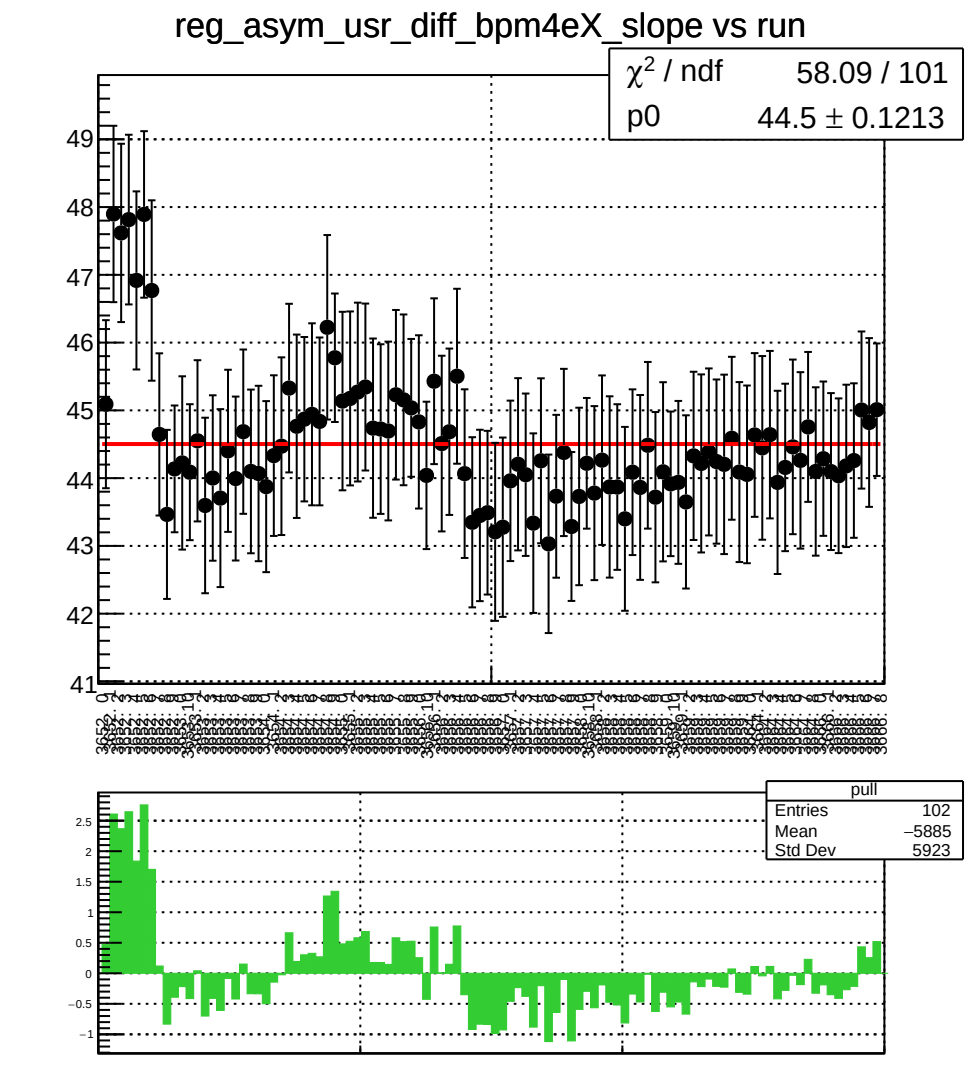

reg_asym_usl_diff_bpm4eY_slope vs run
χ² / ndf 11.99 / 101
p0 13.36 ± 0.5693
pull
Entries 102
Mean 1358
Std Dev 1299
pull1D
Entries 102
Mean 0.0012
Std Dev 0.3429

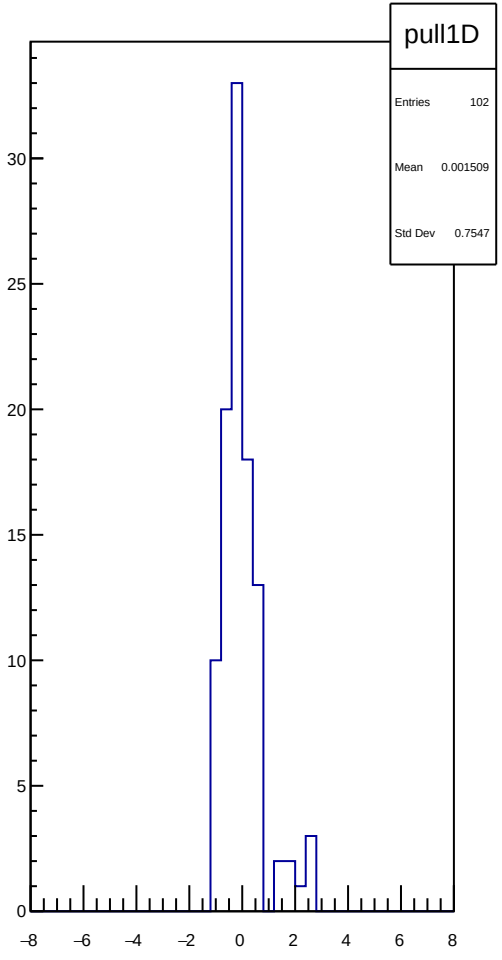

reg_asym_usl_diff_bpm11X_slope vs run
χ² / ndf 33.06 / 101
p0 −39.39 ± 0.1239
pull
Entries 102
Mean 4586
Std Dev 4531
pull1D
Entries 102
Mean −0.002787
Std Dev 0.5693

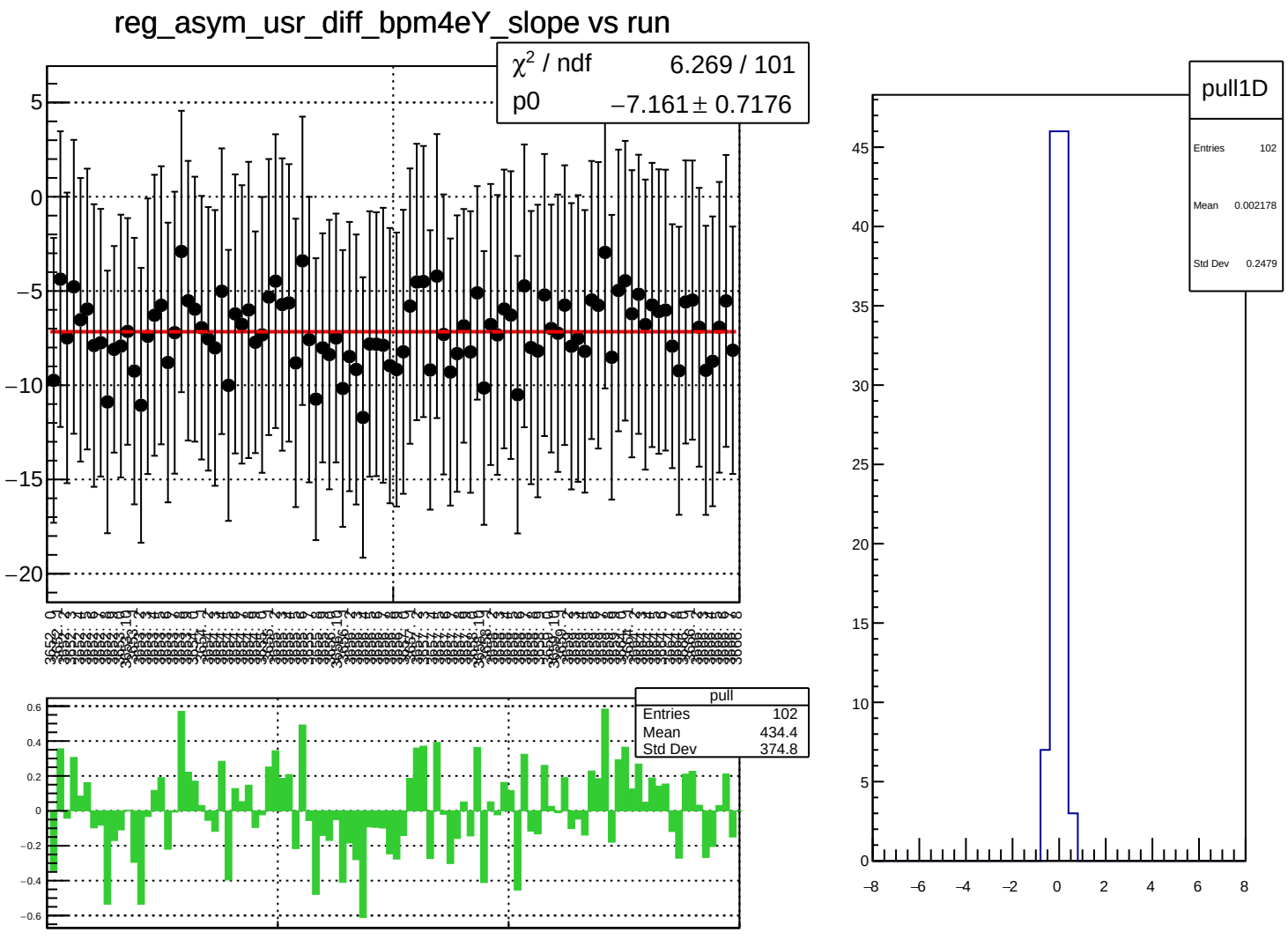

reg_asym_usr_diff_bpm4aX_slope vs run
χ² / ndf 5.317 / 101
p0 −31.26 ± 0.6296
pull
Entries 102
Mean 222.1
Std Dev 250.2

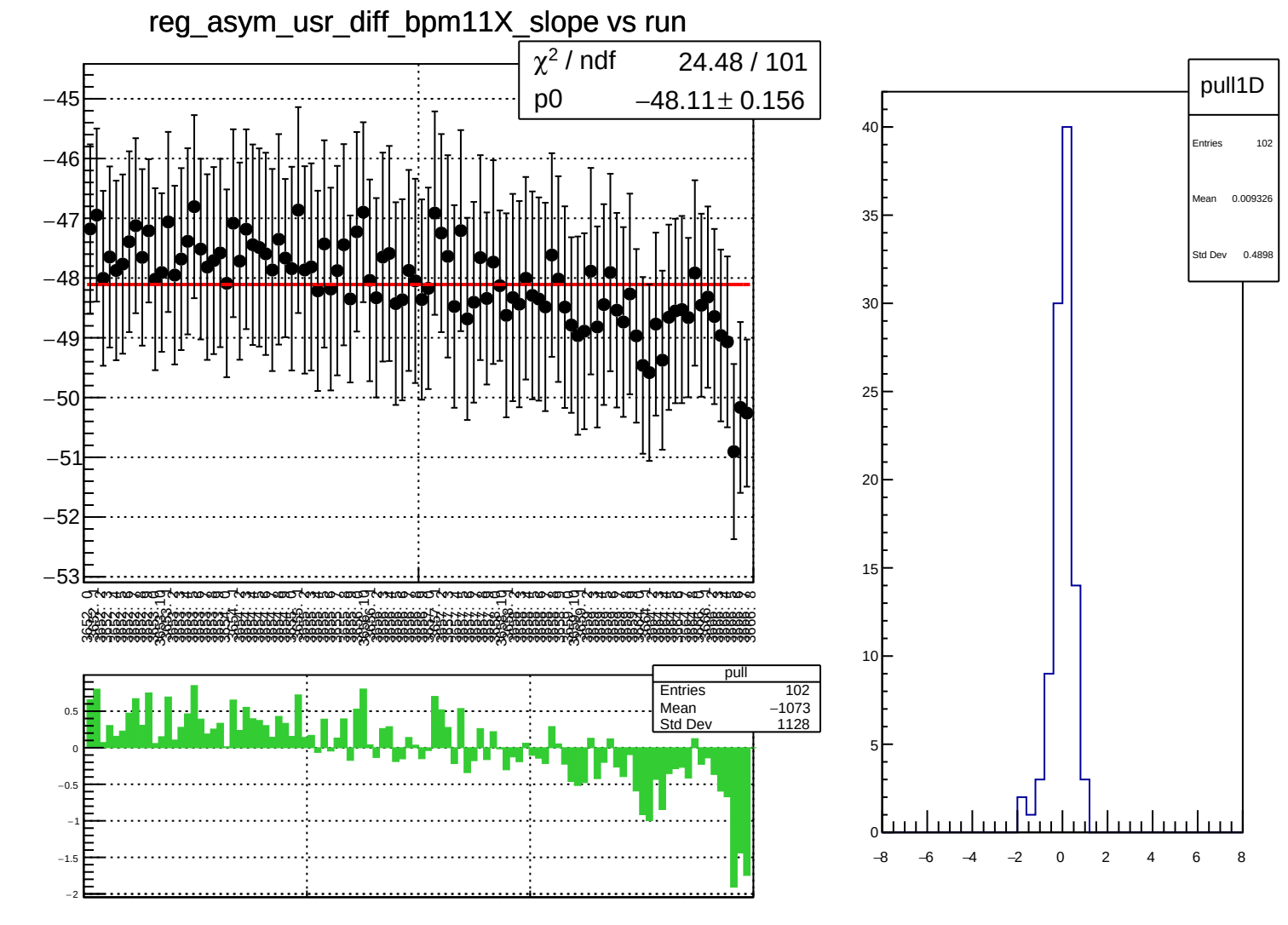

pull1D
Entries 102
Mean 0.00102
Std Dev 0.2283

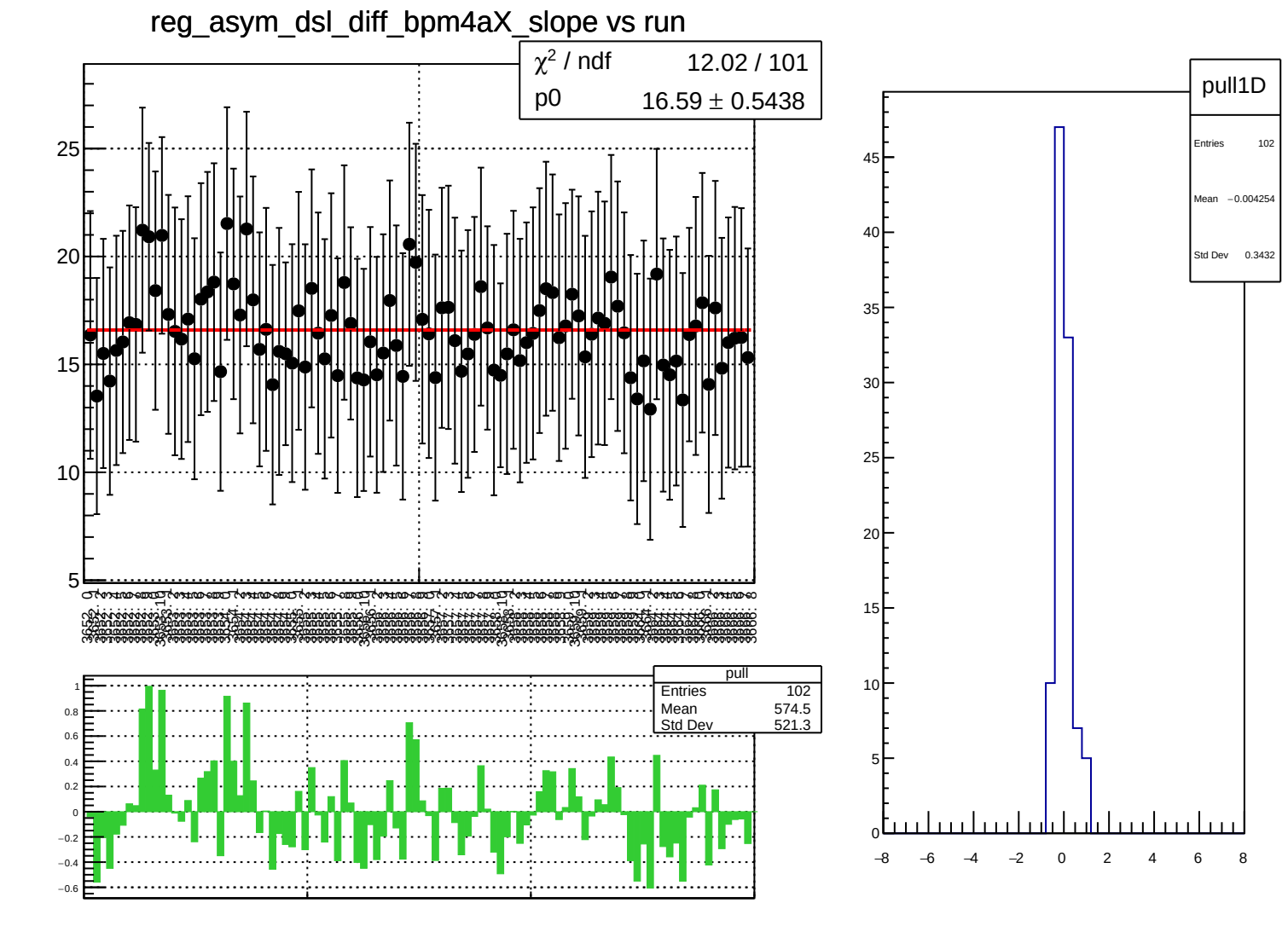

reg_asym_usr_diff_bpm4aY_slope vs run
χ² / ndf 6.436 / 101
p0 11.72 ± 0.4562
pull
Entries 102
Mean 4.725
Std Dev 69.11
pull1D
Entries 102
Mean −0.00187
Std Dev 0.2512

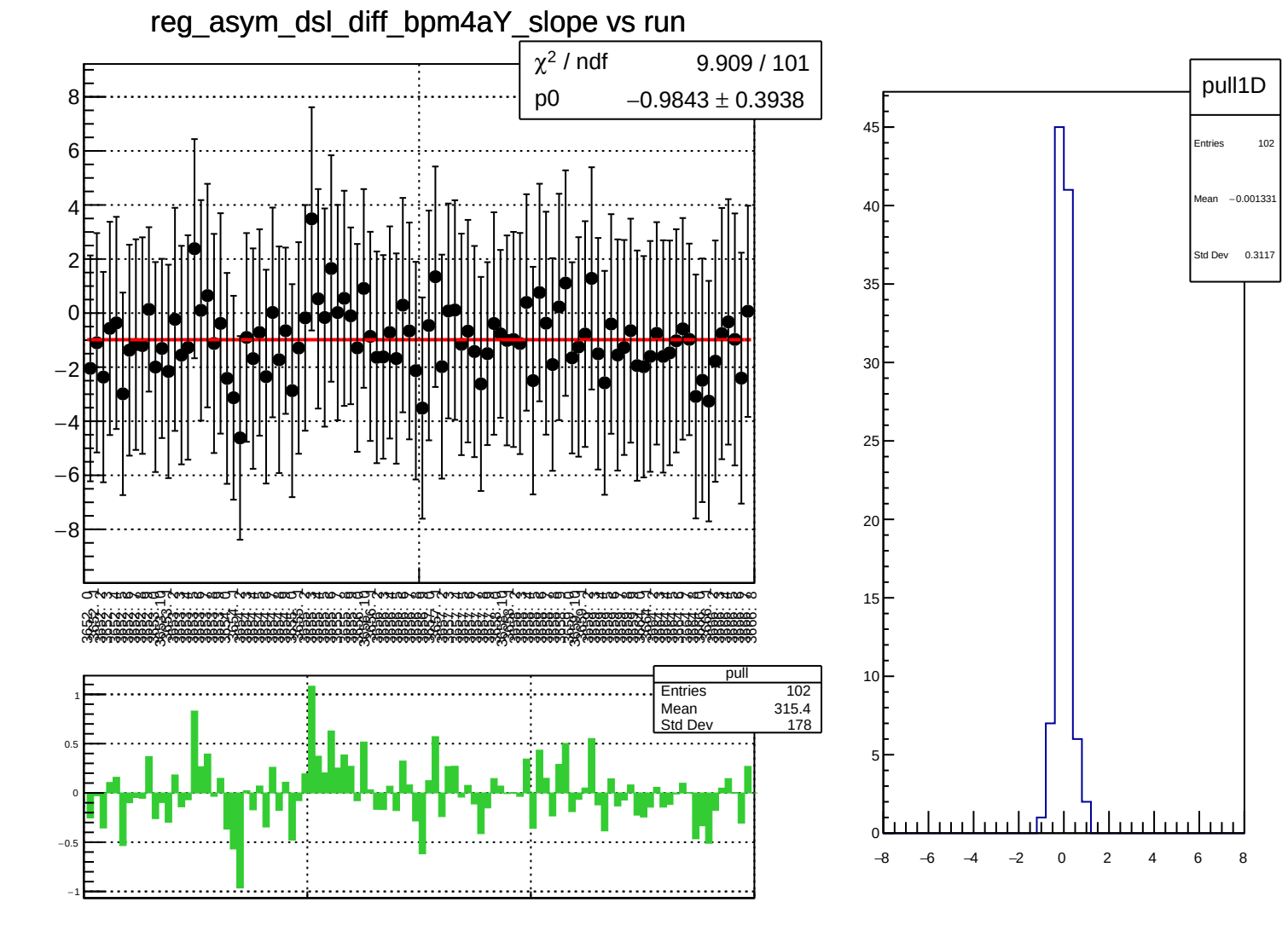

reg_asym_usr_diff_bpm4eX_slope vs run
χ² / ndf 58.09 / 101
p0 44.5 ± 0.1213
pull
Entries 102
Mean −5885
Std Dev 5923

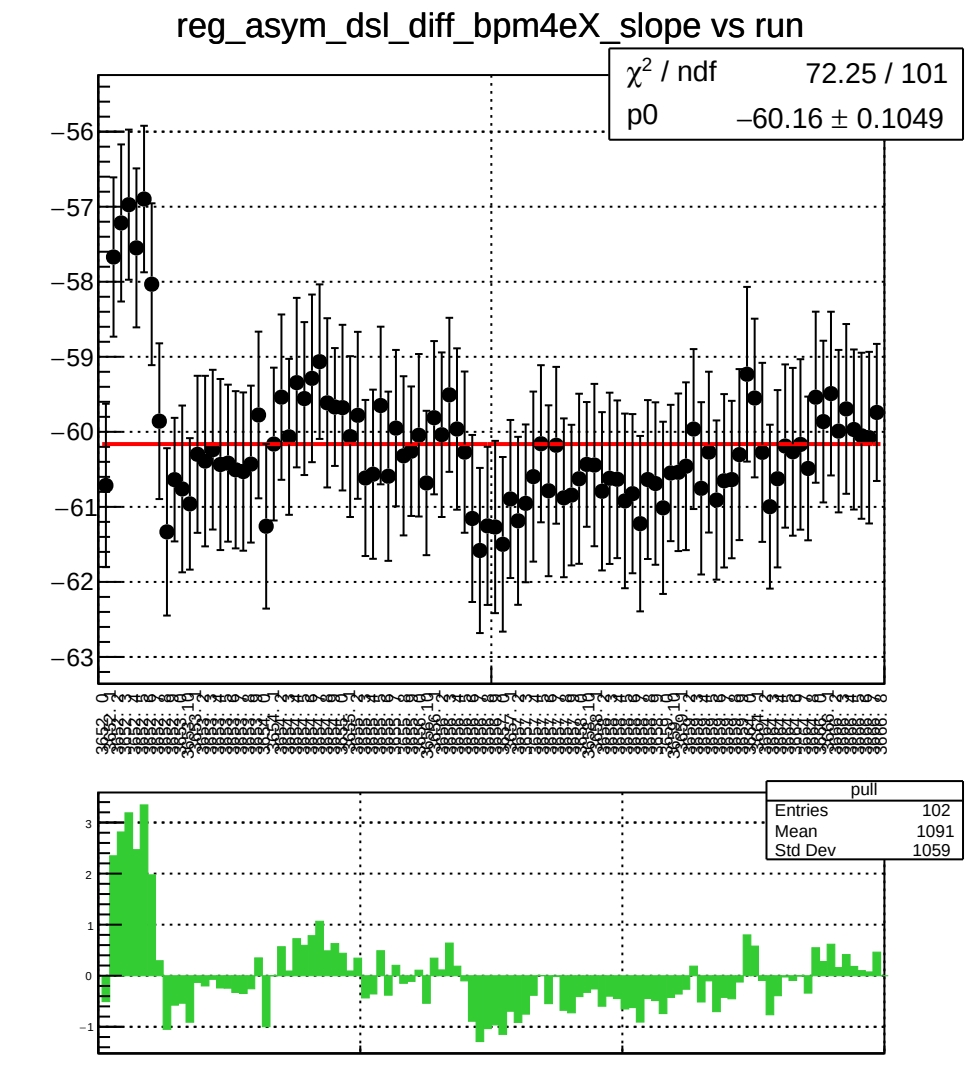

pull1D
Entries 102
Mean 0.001509
Std Dev 0.7547

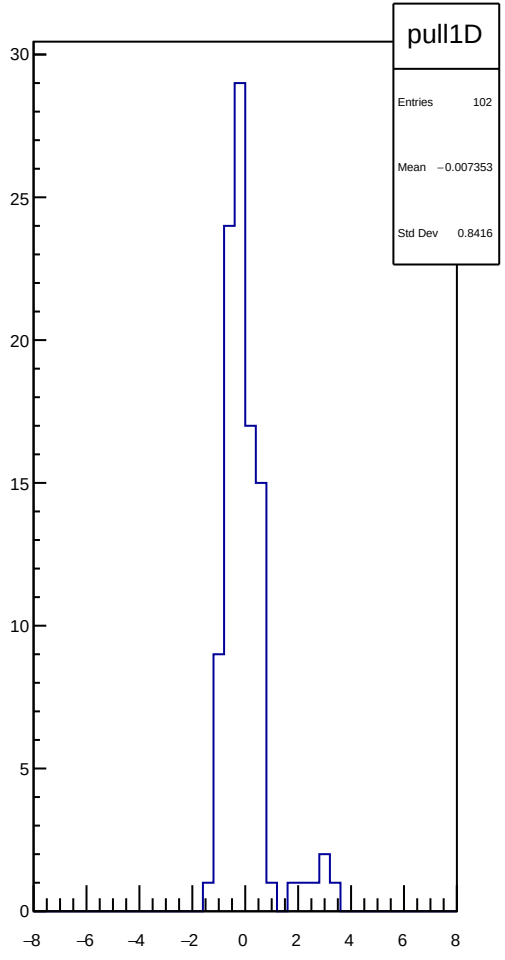

reg_asym_usr_diff_bpm4eY_slope vs run
χ² / ndf 6.269 / 101
p0 −7.161 ± 0.7176
pull
Entries 102
Mean 434.4
Std Dev 374.8
pull1D
Entries 102
Mean 0.002178
Std Dev 0.2479

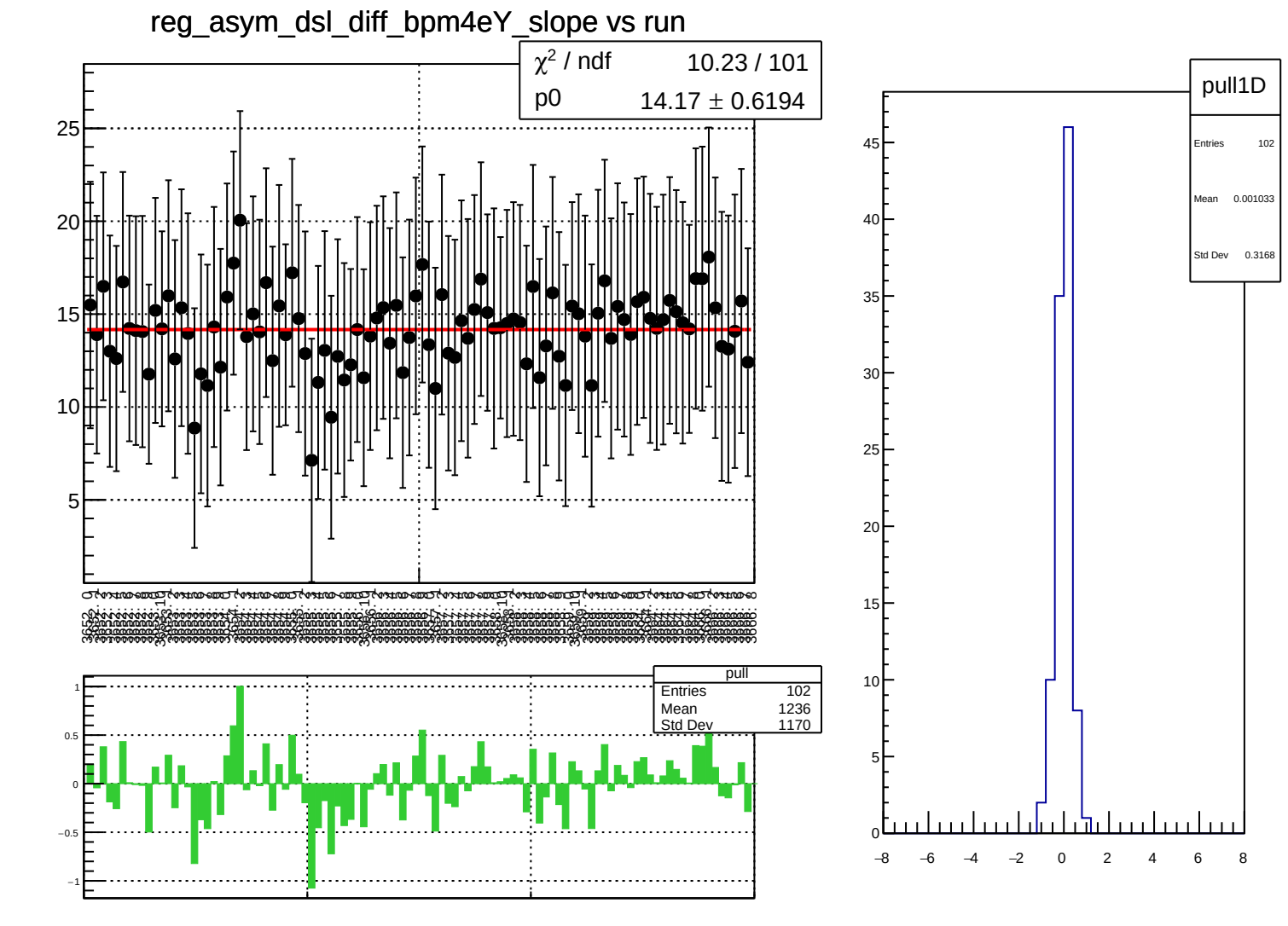

reg_asym_usr_diff_bpm11X_slope vs run
χ² / ndf 24.48 / 101
p0 −48.11 ± 0.156
pull
Entries 102
Mean −1073
Std Dev 1128
pull1D
Entries 102
Mean 0.009326
Std Dev 0.4898

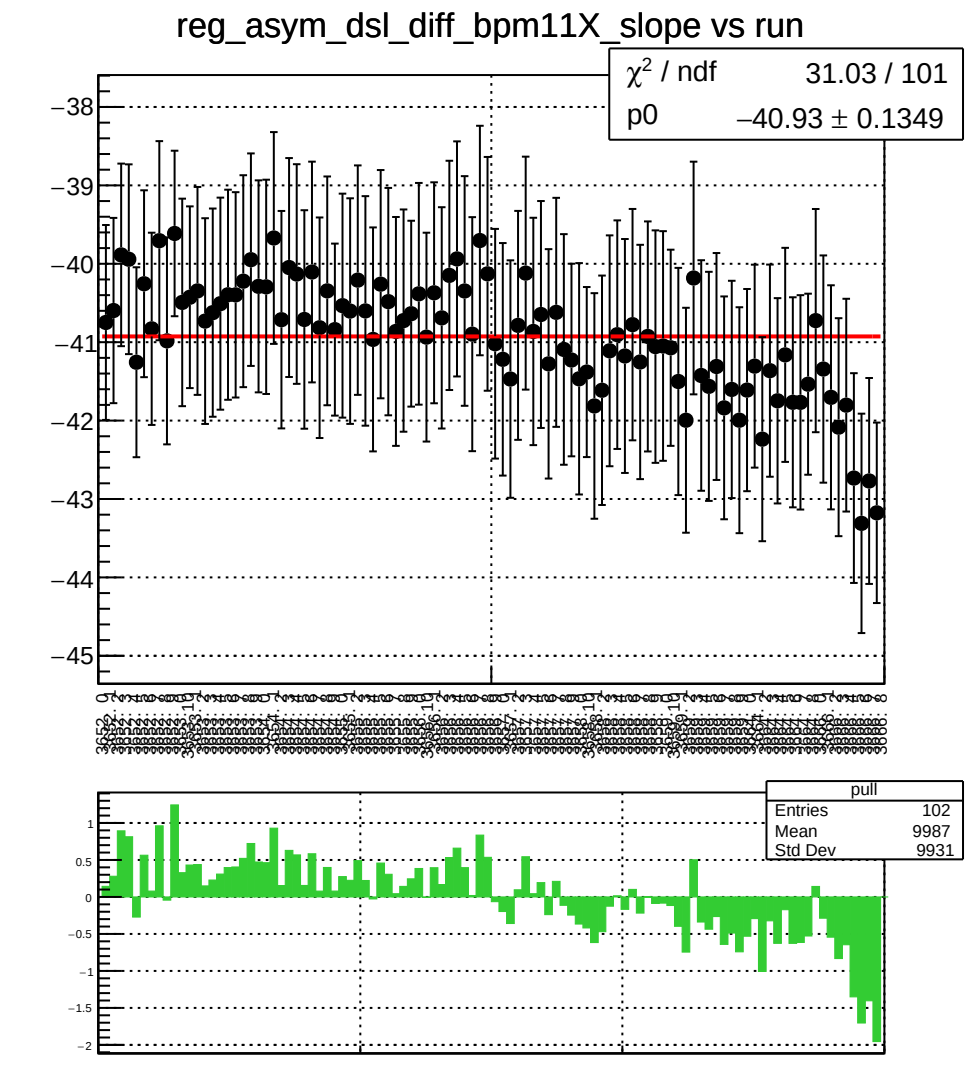

reg_asym_dsl_diff_bpm4aX_slope vs run
χ² / ndf 12.02 / 101
p0 16.59 ± 0.5438
pull
Entries 102
Mean 574.5
Std Dev 521.3
pull1D
Entries 102
Mean −0.004254
Std Dev 0.3432

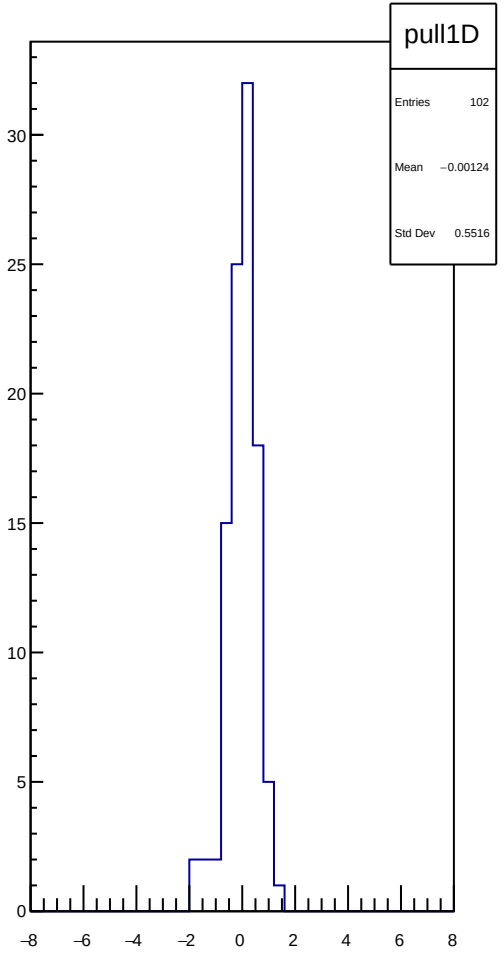

reg_asym_dsl_diff_bpm4aY_slope vs run
χ² / ndf 9.909 / 101
p0 −0.9843 ± 0.3938
pull
Entries 102
Mean 315.4
Std Dev 178
pull1D
Entries 102
Mean −0.001331
Std Dev 0.3117

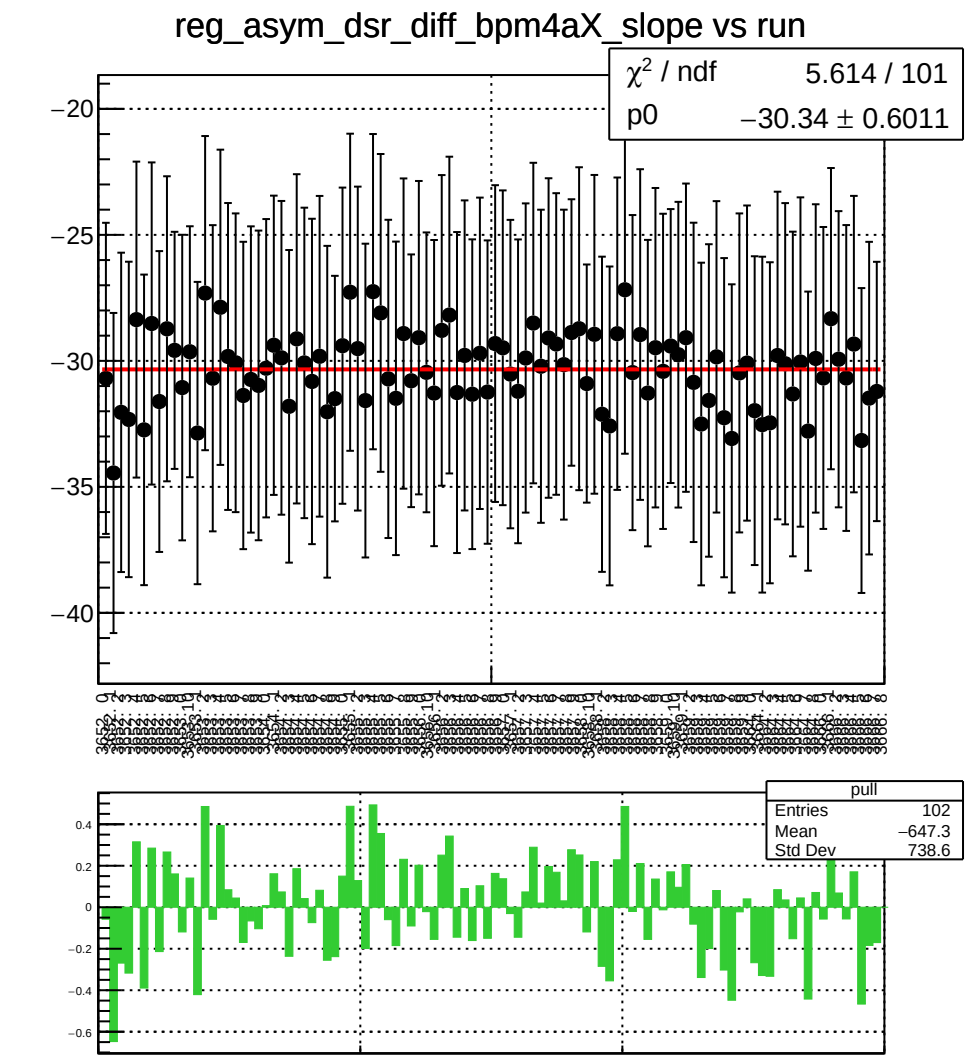

reg_asym_dsl_diff_bpm4eX_slope vs run
χ² / ndf 72.25 / 101
p0 −60.16 ± 0.1049
−56
−57
−58
−59
−60
−61
−62
−63
pull
Entries 102
Mean 1091
Std Dev 1059
3
2
1
0
−1

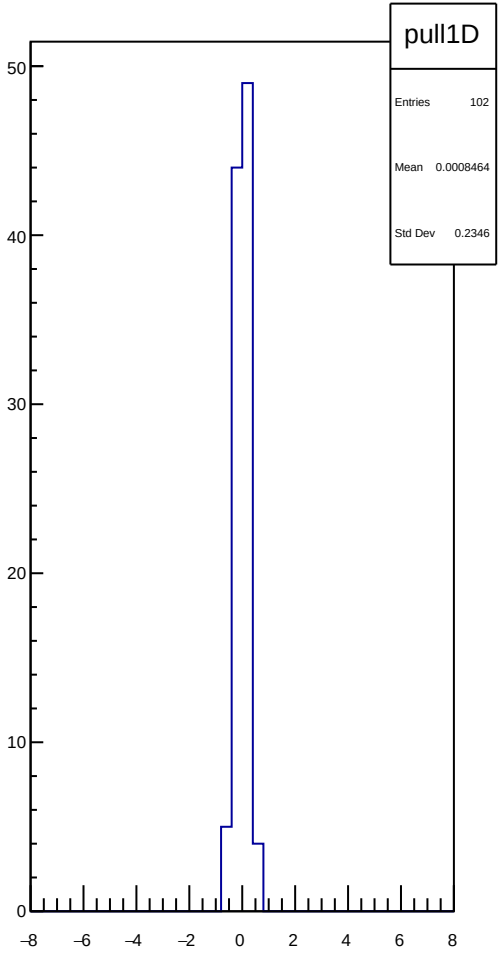

pull1D
Entries 102
Mean −0.007353
Std Dev 0.8416
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

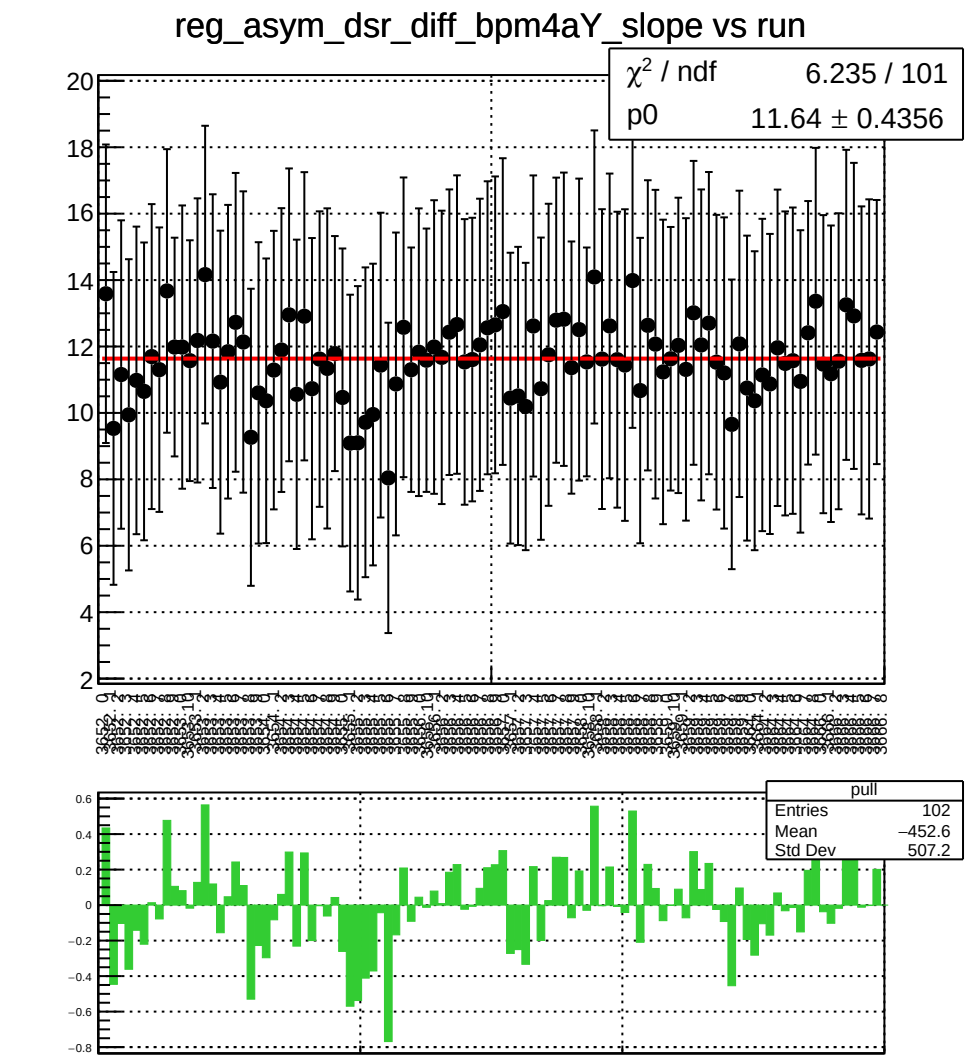

reg_asym_dsl_diff_bpm4eY_slope vs run
χ² / ndf 10.23 / 101
p0 14.17 ± 0.6194
pull
Entries 102
Mean 1236
Std Dev 1170
pull1D
Entries 102
Mean 0.001033
Std Dev 0.3168

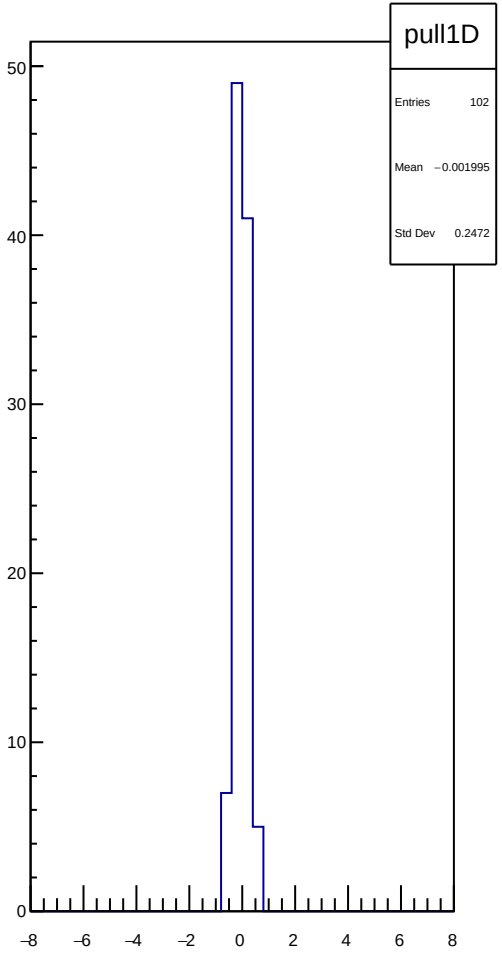

reg_asym_dsl_diff_bpm11X_slope vs run
χ² / ndf 31.03 / 101
p0 −40.93 ± 0.1349
pull
Entries 102
Mean 9987
Std Dev 9931

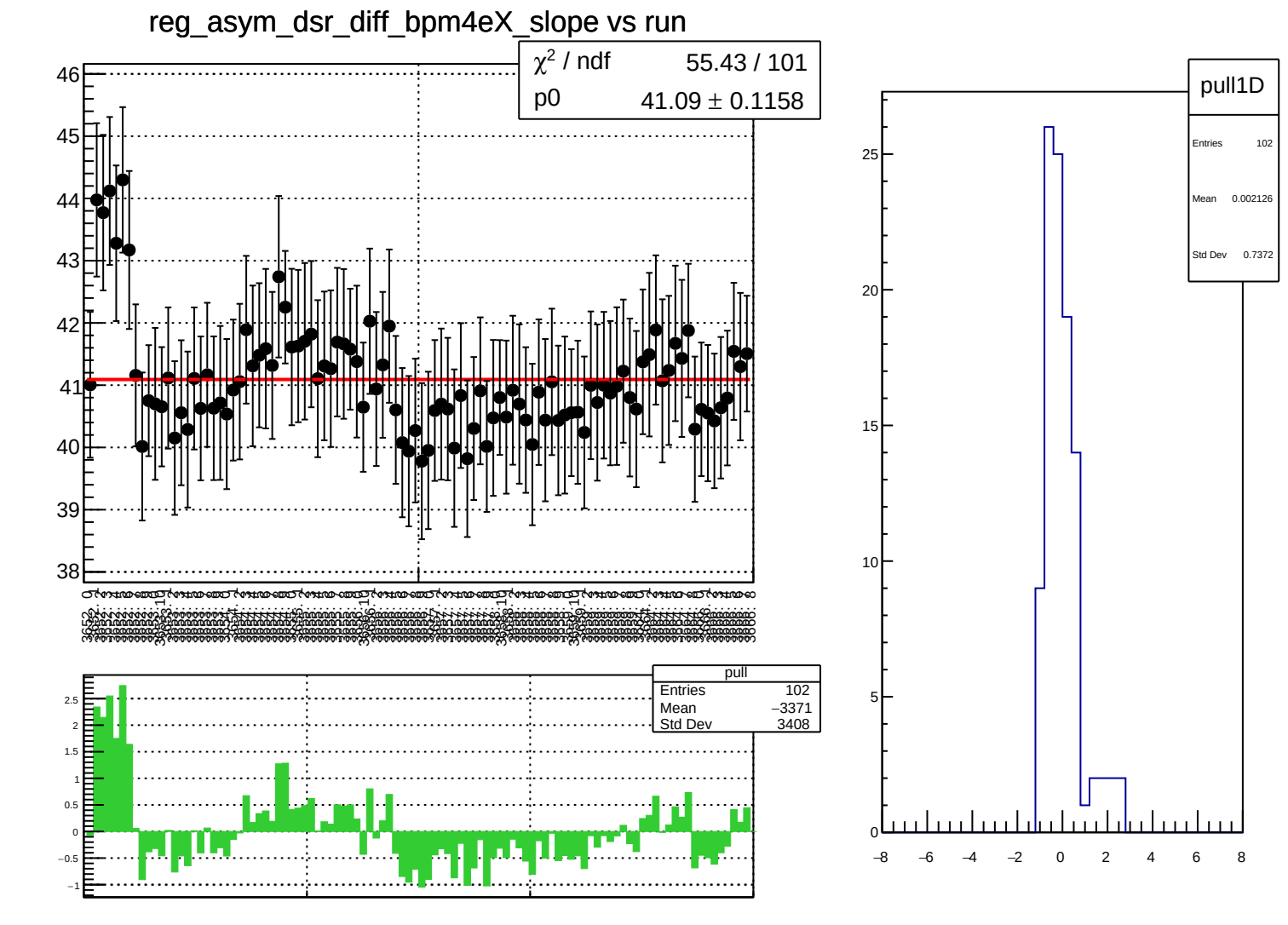

pull1D
Entries 102
Mean −0.00124
Std Dev 0.5516

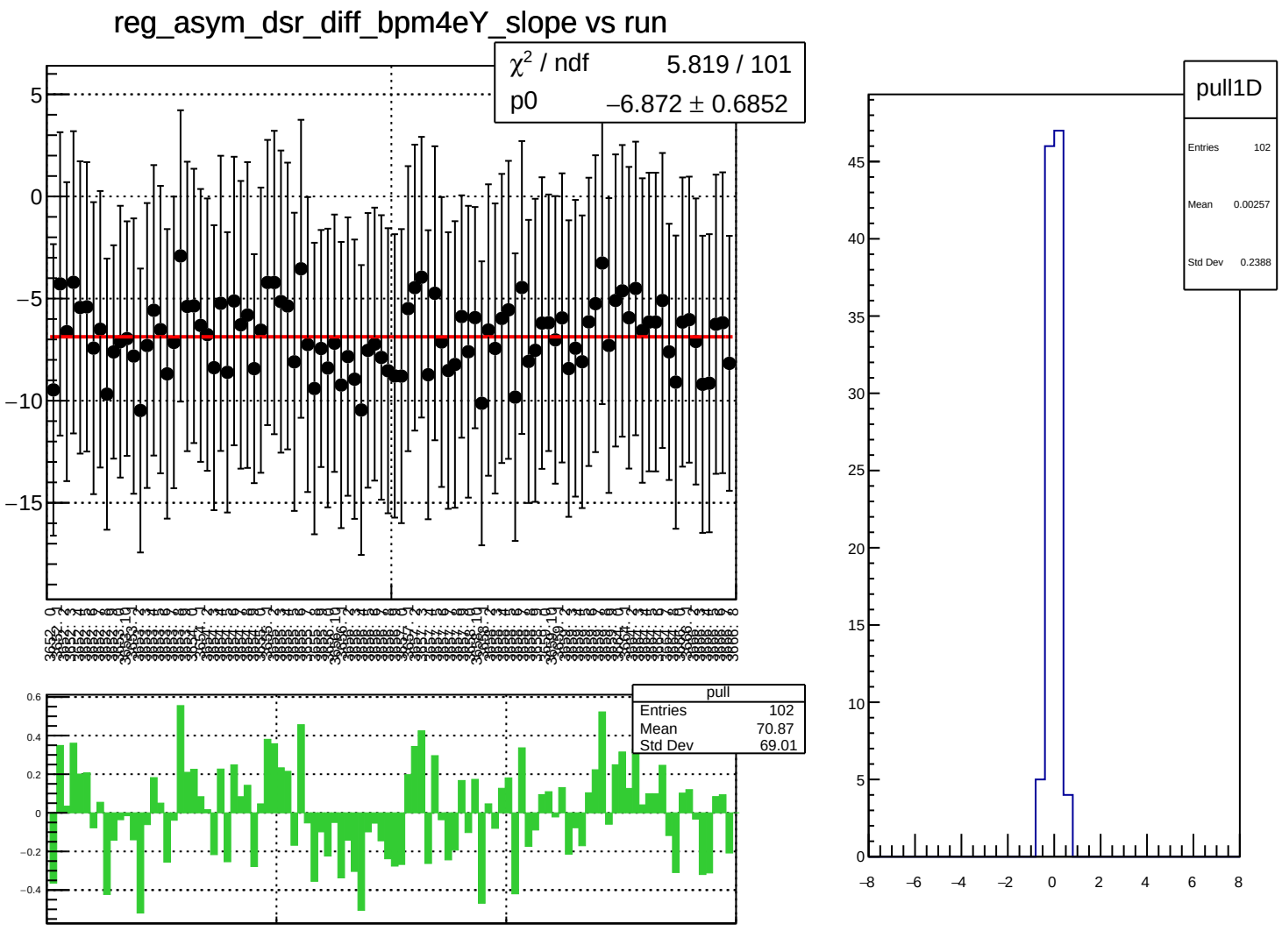

reg_asym_dsr_diff_bpm4aX_slope vs run
χ² / ndf 5.614 / 101
p0 −30.34 ± 0.6011
pull
Entries 102
Mean −647.3
Std Dev 738.6

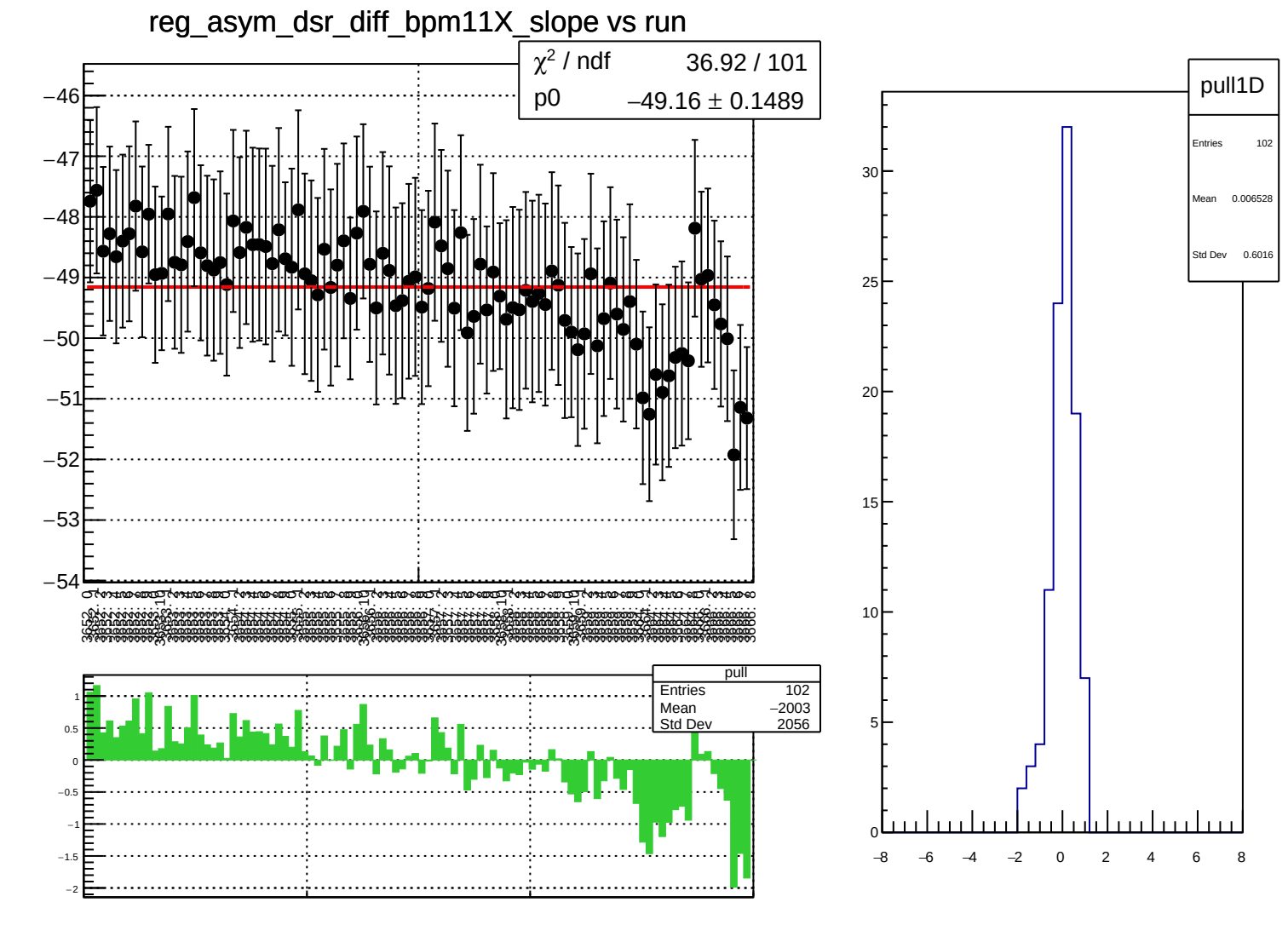

pull1D
Entries 102
Mean 0.0008464
Std Dev 0.2346

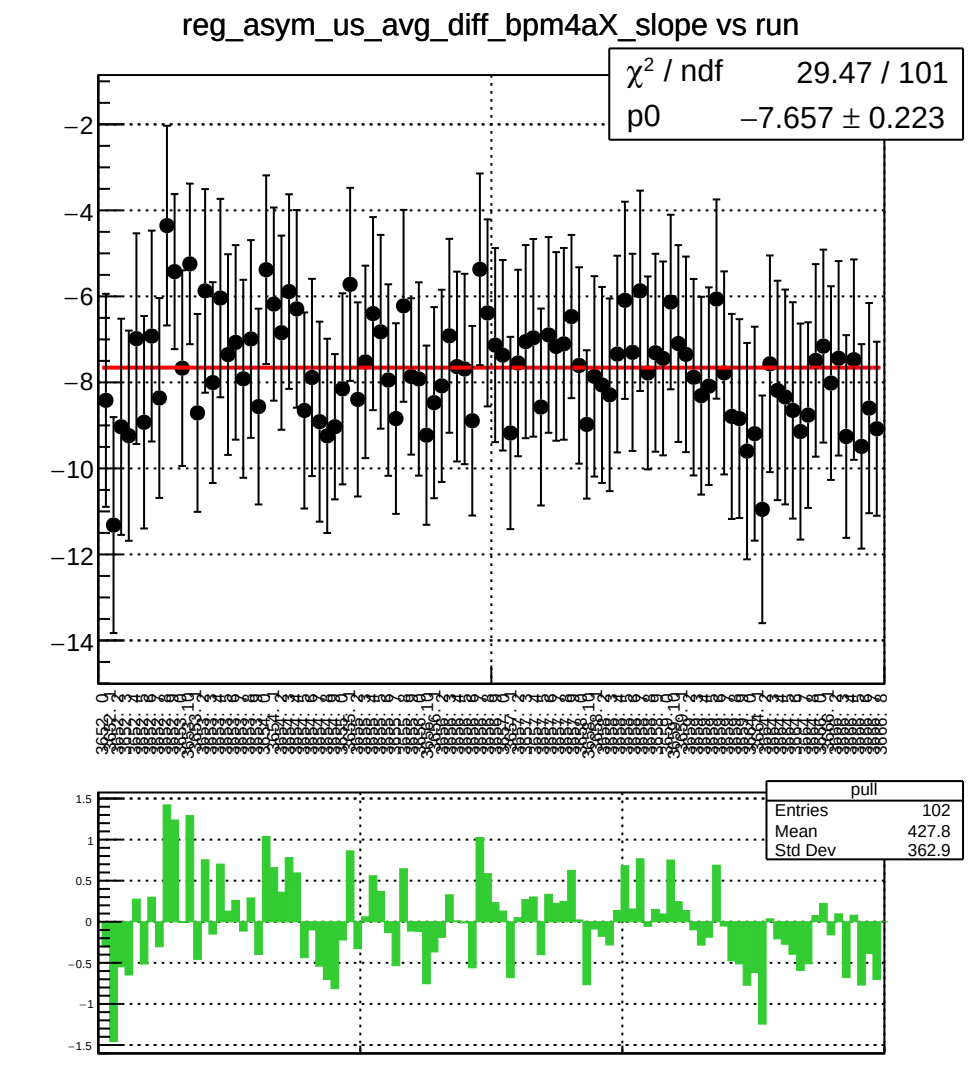

reg_asym_dsr_diff_bpm4aY_slope vs run
χ² / ndf 6.235 / 101
p0 11.64 ± 0.4356
pull
Entries 102
Mean −452.6
Std Dev 507.2

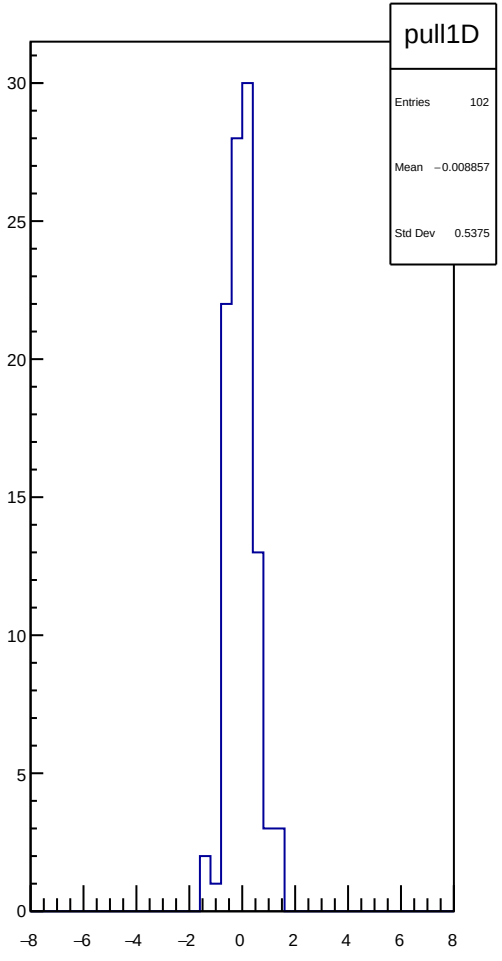

pull1D
Entries 102
Mean −0.001995
Std Dev 0.2472

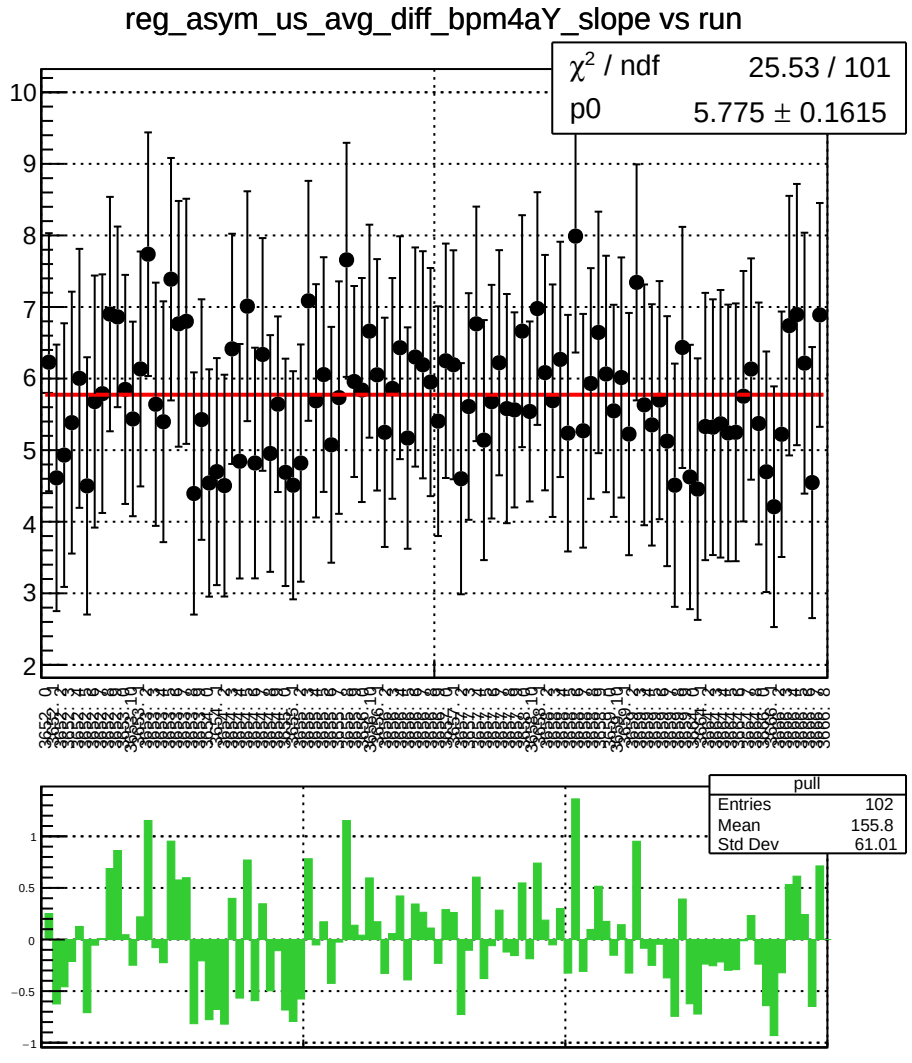

reg_asym_dsr_diff_bpm4eX_slope vs run
χ² / ndf 55.43 / 101
p0 41.09 ± 0.1158
pull
Entries 102
Mean −3371
Std Dev 3408
pull1D
Entries 102
Mean 0.002126
Std Dev 0.7372

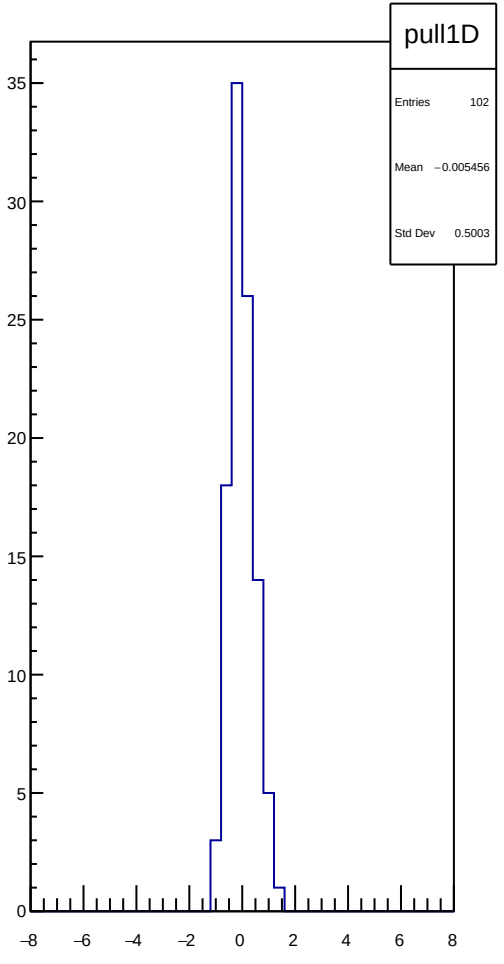

reg_asym_dsr_diff_bpm4eY_slope vs run
χ² / ndf 5.819 / 101
p0 −6.872 ± 0.6852
pull
Entries 102
Mean 70.87
Std Dev 69.01
pull1D
Entries 102
Mean 0.00257
Std Dev 0.2388

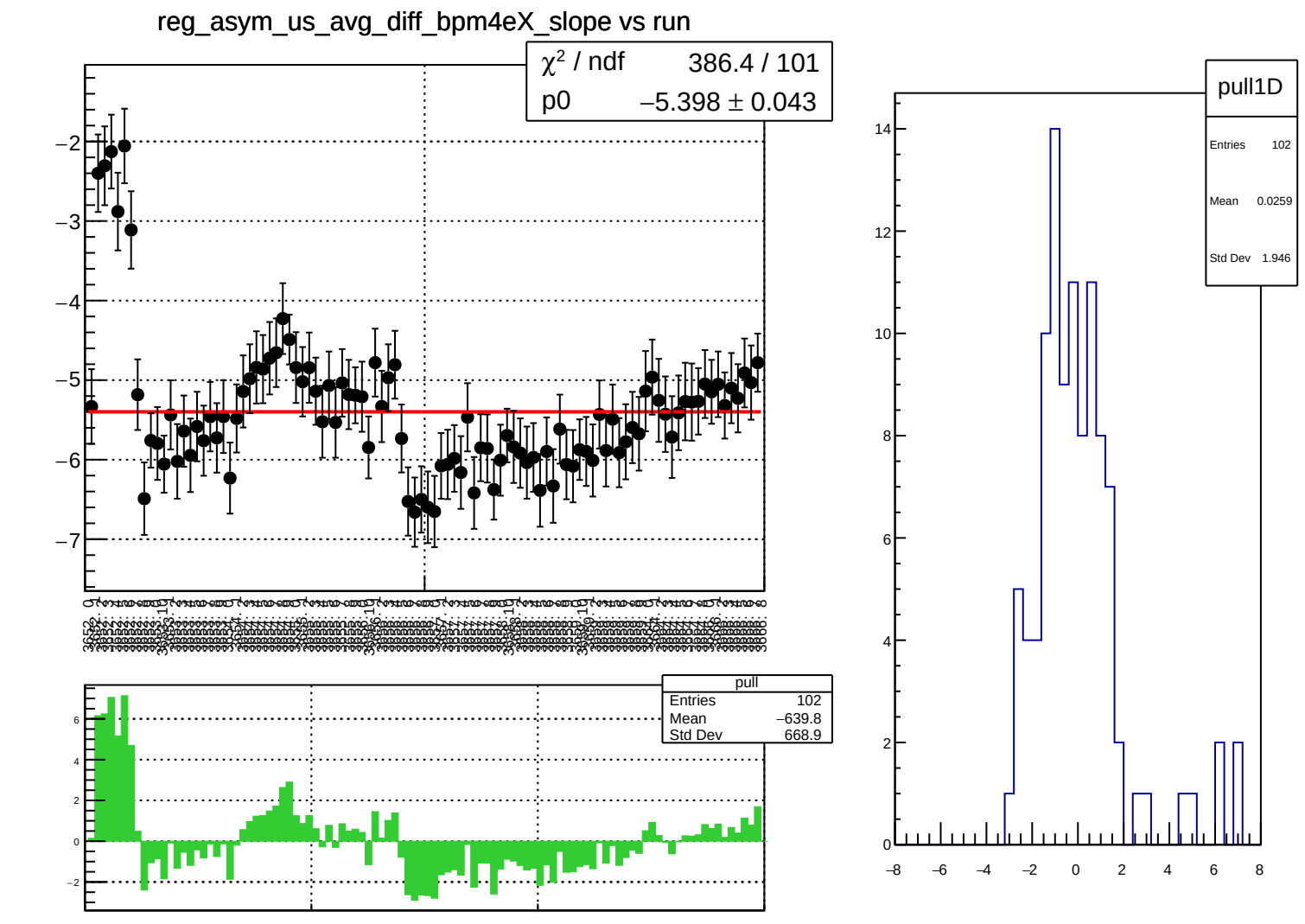

reg_asym_dsr_diff_bpm11X_slope vs run
χ² / ndf 36.92 / 101
p0 −49.16 ± 0.1489
pull
Entries 102
Mean −2003
Std Dev 2056
pull1D
Entries 102
Mean 0.006528
Std Dev 0.6016

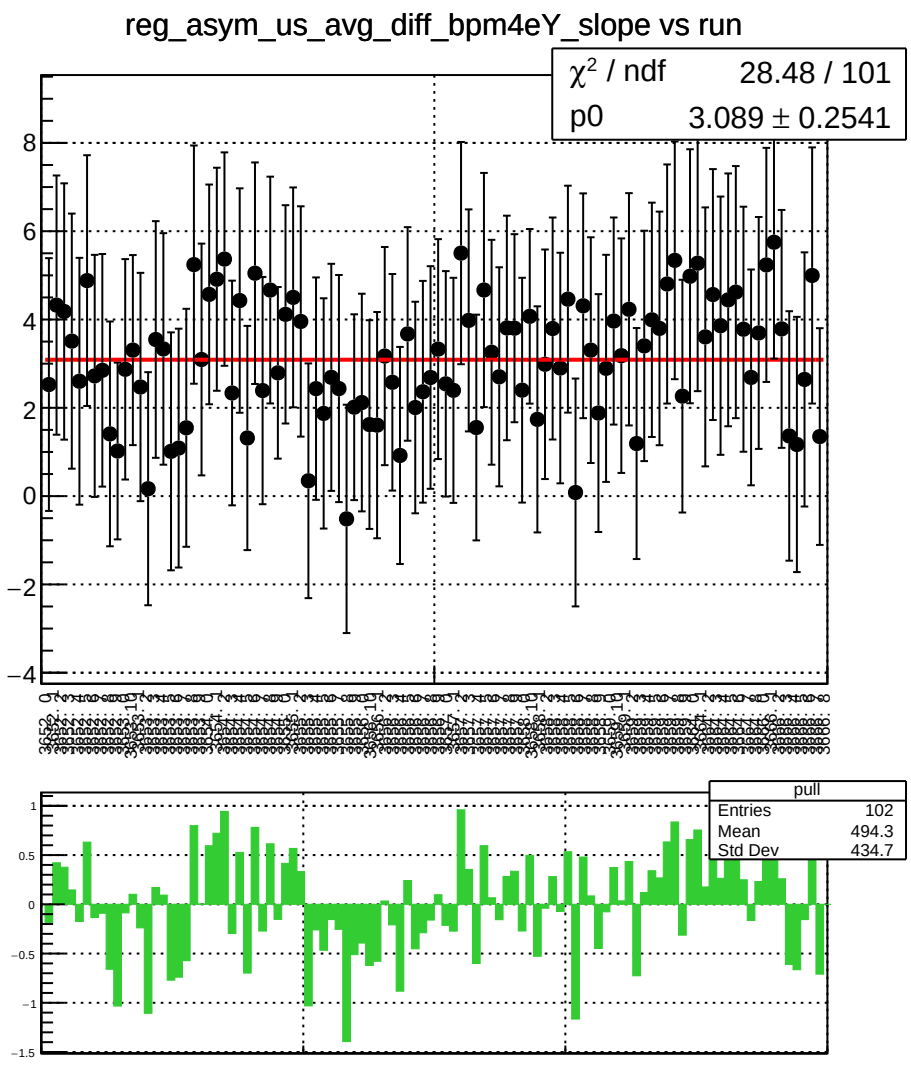

reg_asym_us_avg_diff_bpm4aX_slope vs run
χ² / ndf 29.47 / 101
p0 −7.657 ± 0.223
pull
Entries 102
Mean 427.8
Std Dev 362.9

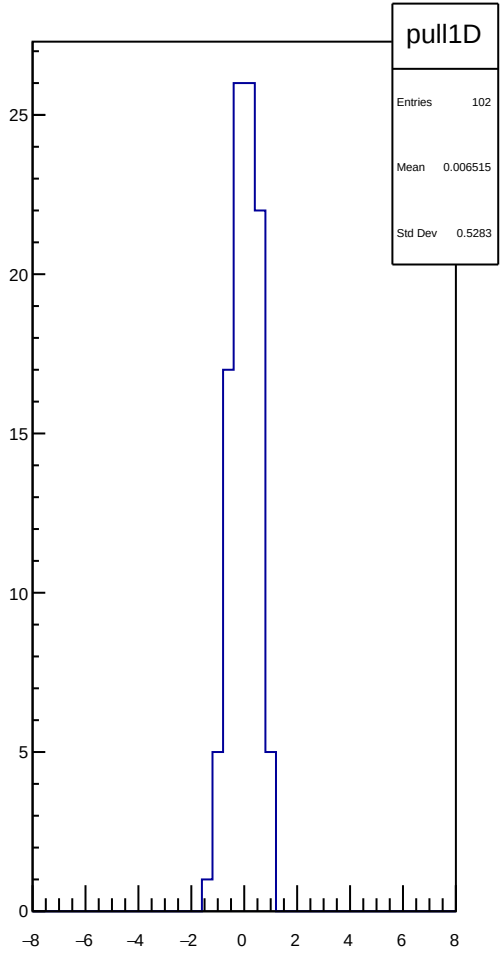

pull1D
Entries 102
Mean −0.008857
Std Dev 0.5375

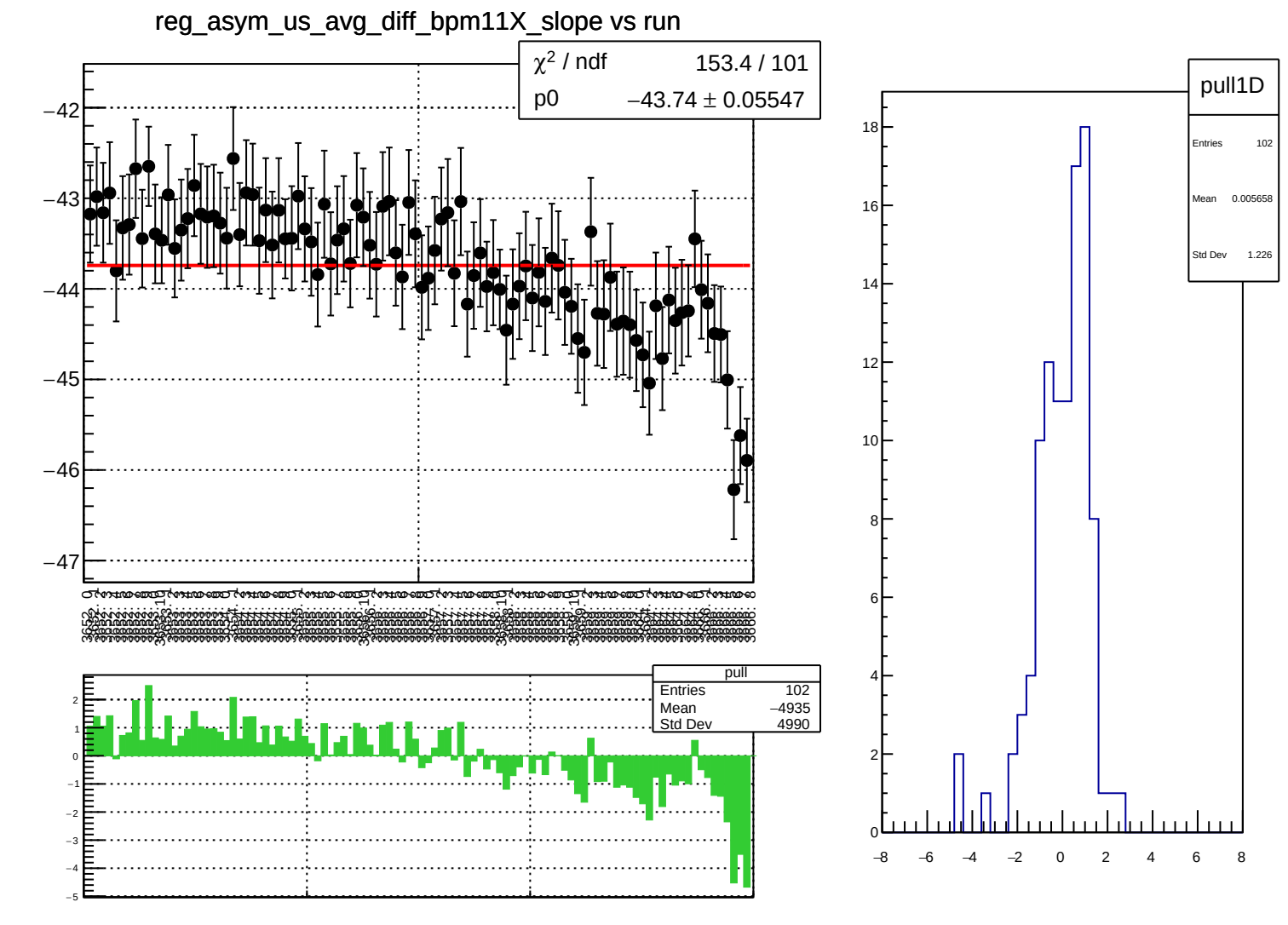

reg_asym_us_avg_diff_bpm4aY_slope vs run
χ² / ndf 25.53 / 101
p0 5.775 ± 0.1615
pull
Entries 102
Mean 155.8
Std Dev 61.01

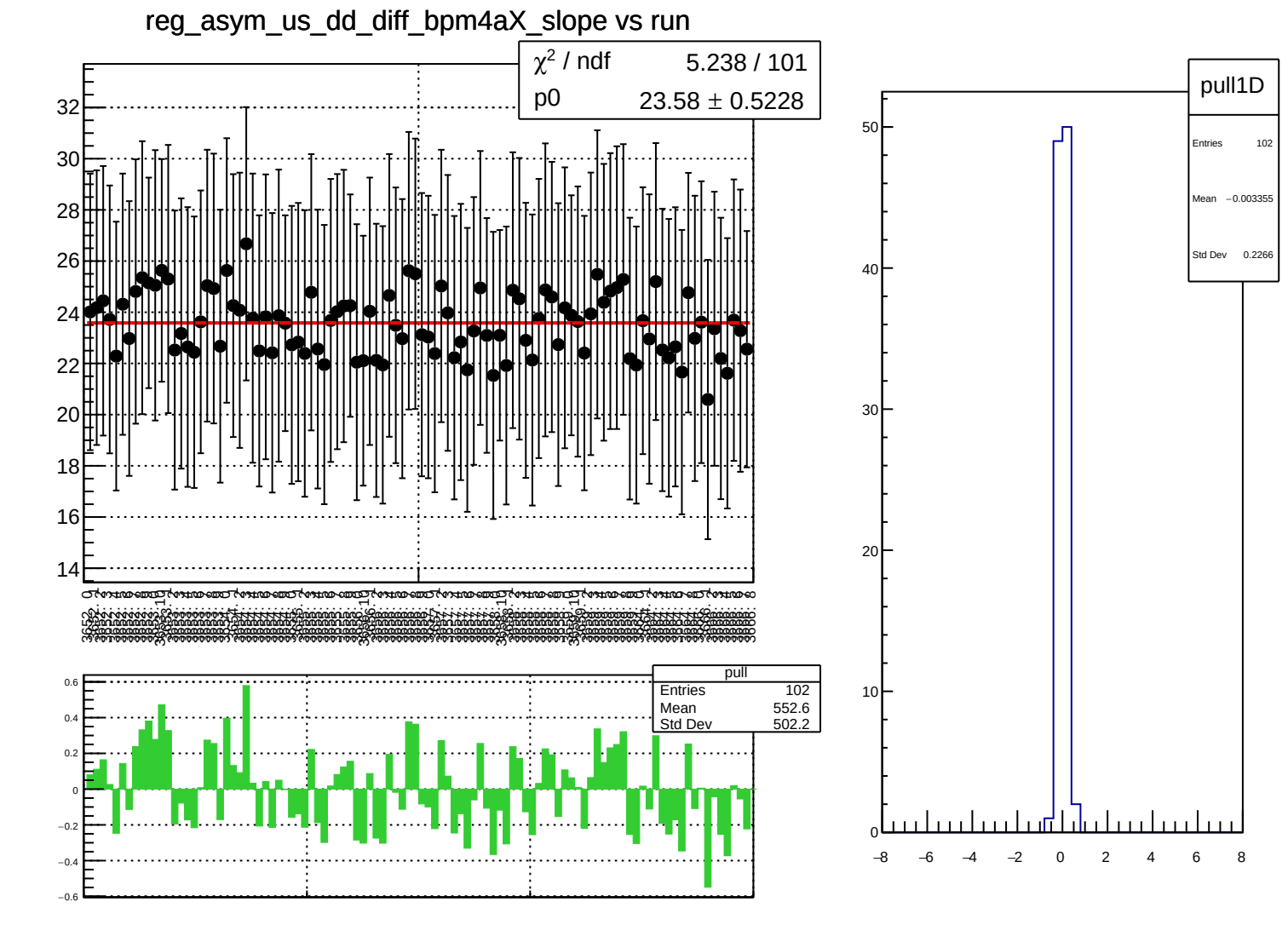

pull1D
Entries 102
Mean −0.005456
Std Dev 0.5003

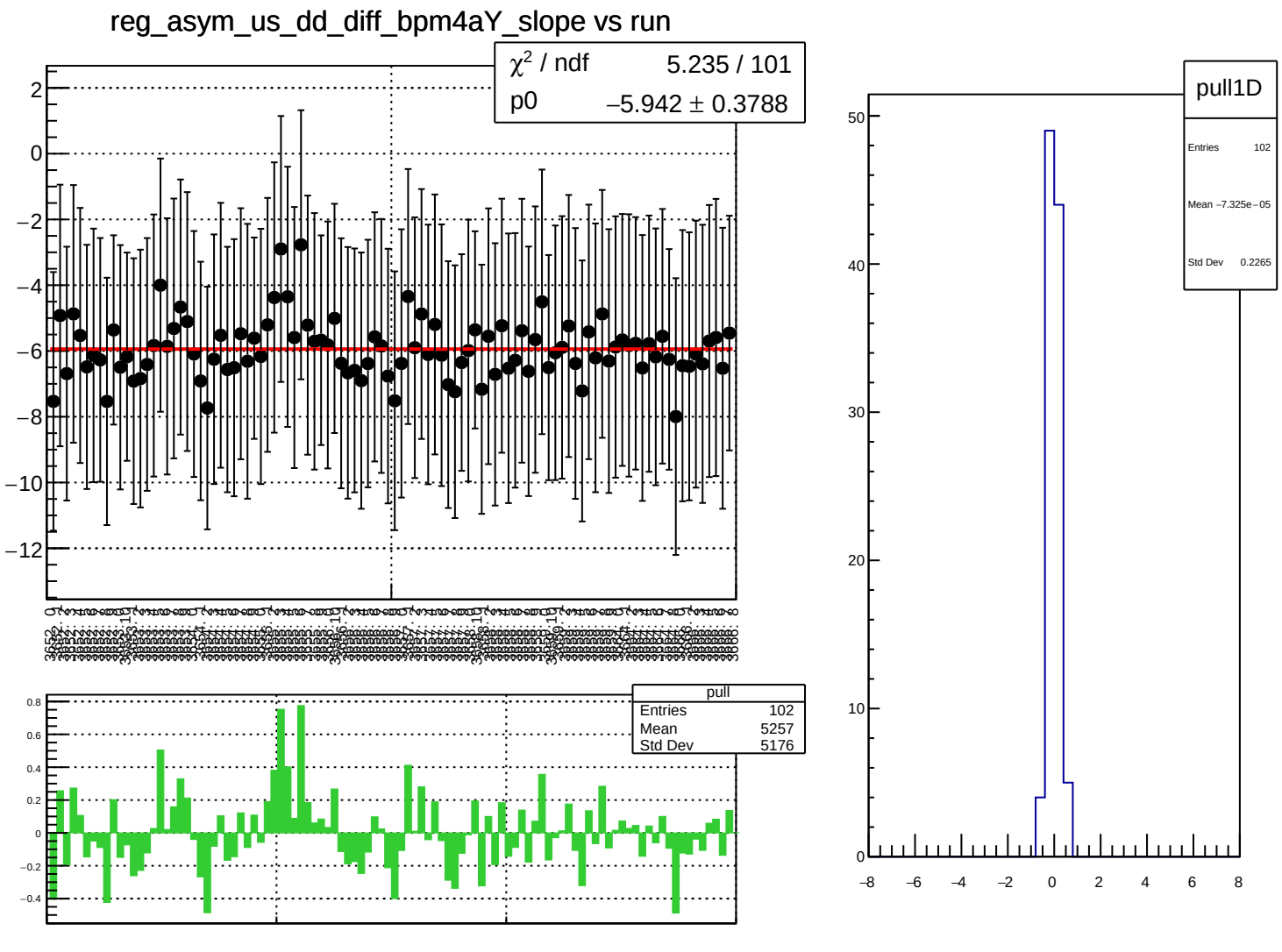

reg_asym_us_avg_diff_bpm4eX_slope vs run
χ² / ndf 386.4 / 101
p0 −5.398 ± 0.043
pull
Entries 102
Mean −639.8
Std Dev 668.9
pull1D
Entries 102
Mean 0.0259
Std Dev 1.946

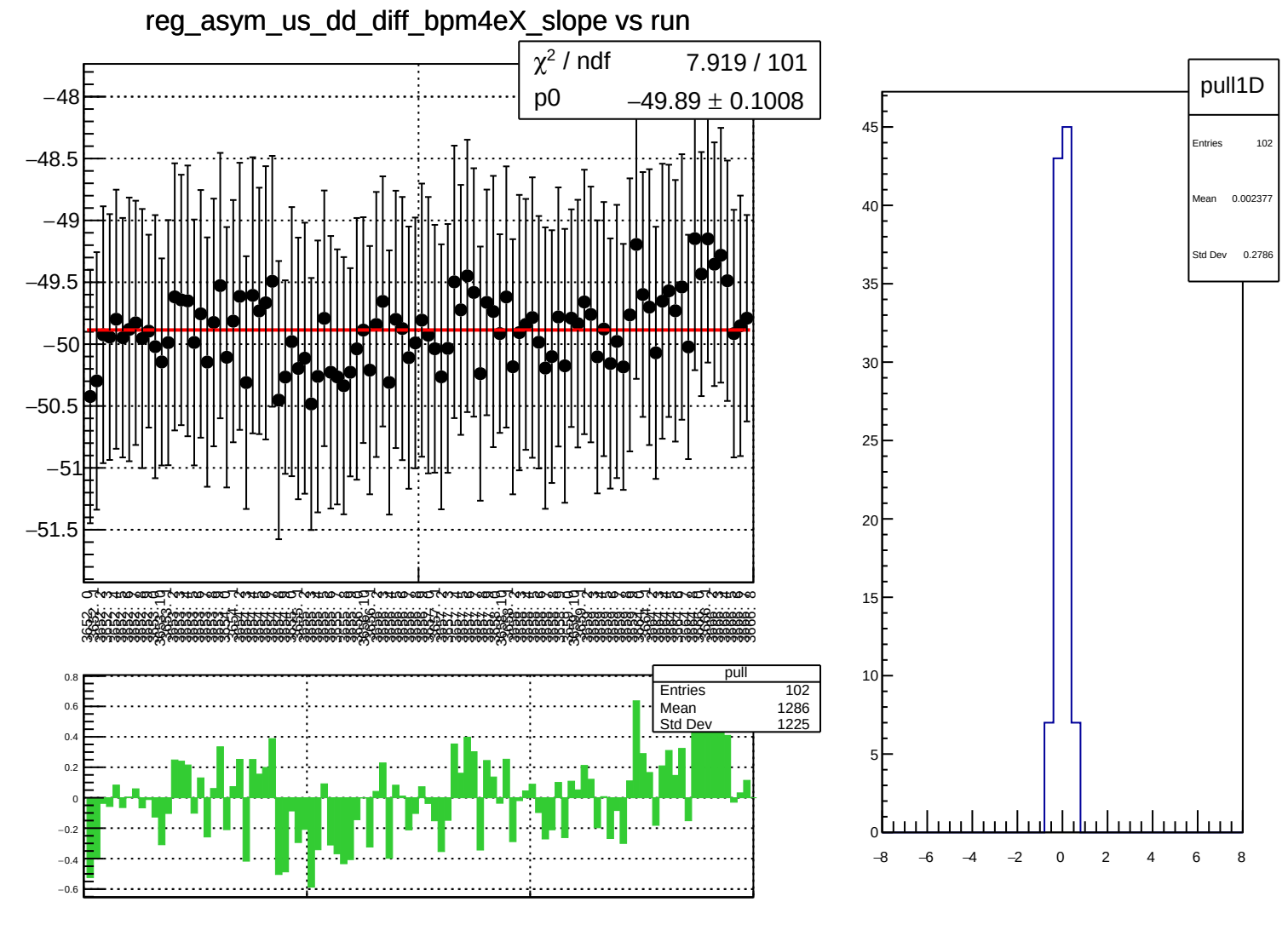

reg_asym_us_avg_diff_bpm4eY_slope vs run
χ² / ndf 28.48 / 101
p0 3.089 ± 0.2541
pull
Entries 102
Mean 494.3
Std Dev 434.7

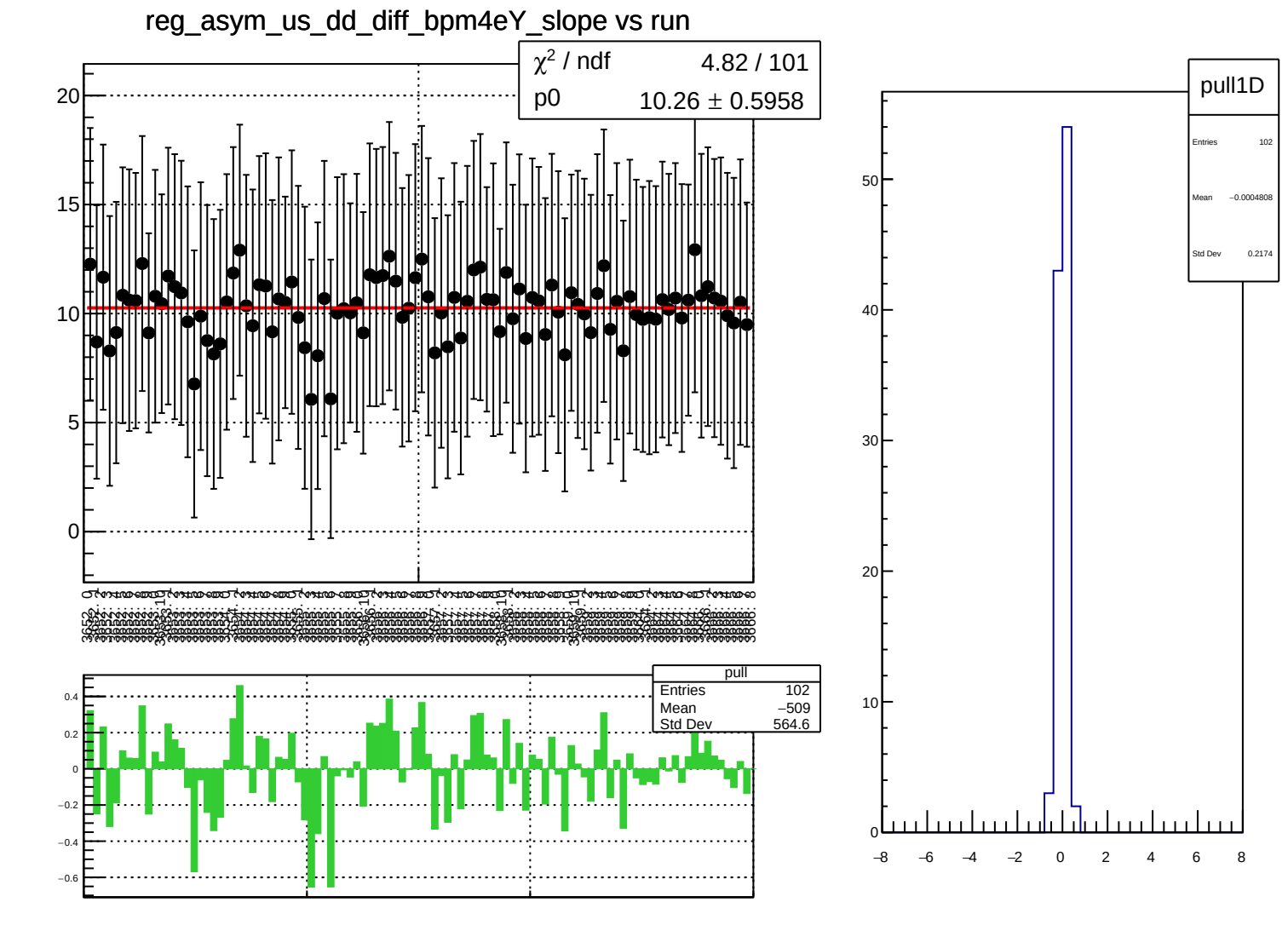

pull1D
Entries 102
Mean 0.006515
Std Dev 0.5283

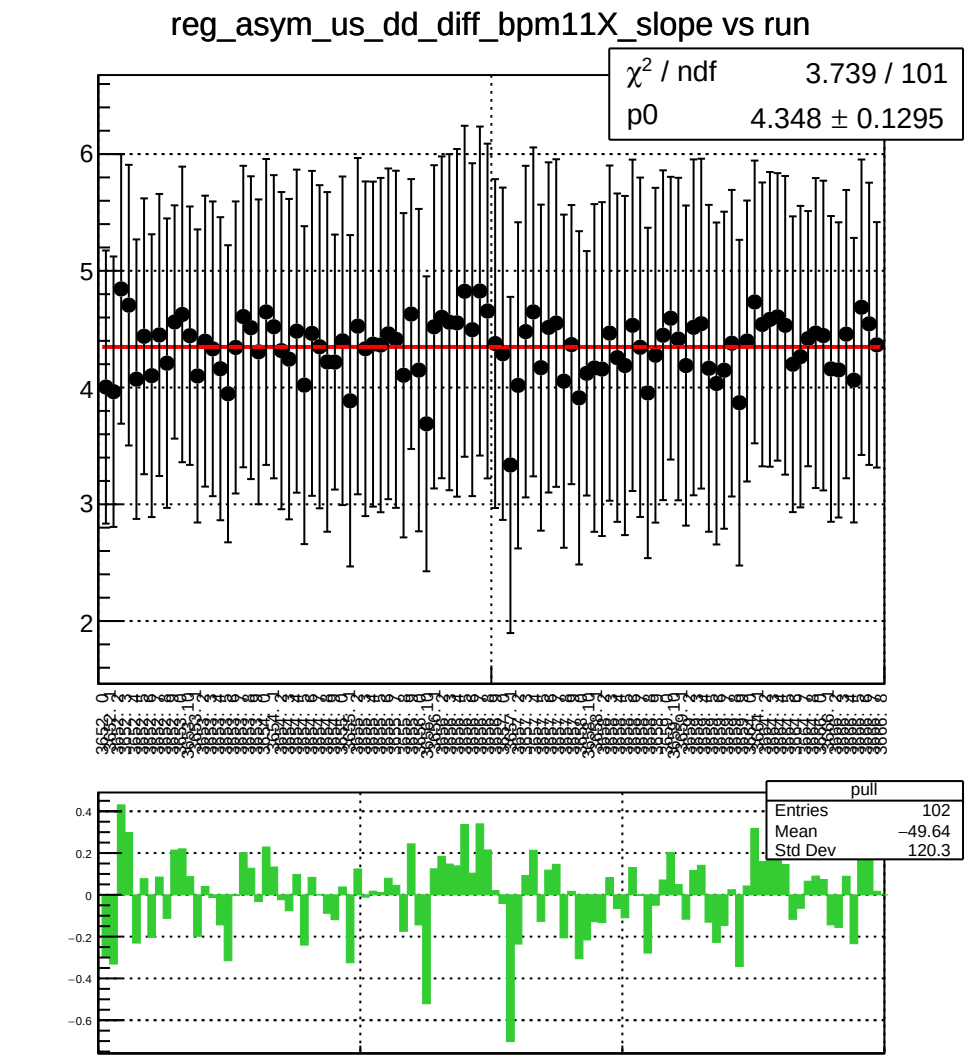

reg_asym_us_avg_diff_bpm11X_slope vs run
χ² / ndf 153.4 / 101
p0 −43.74 ± 0.05547
pull
Entries 102
Mean −4935
Std Dev 4990
pull1D
Entries 102
Mean 0.005658
Std Dev 1.226

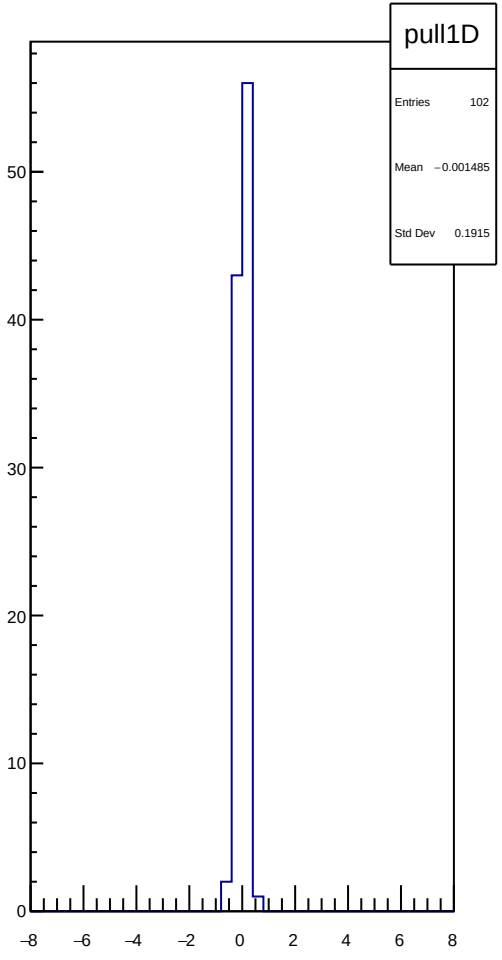

reg_asym_us_dd_diff_bpm4aX_slope vs run
χ² / ndf 5.238 / 101
p0 23.58 ± 0.5228
pull
Entries 102
Mean 552.6
Std Dev 502.2
pull1D
Entries 102
Mean −0.003355
Std Dev 0.2266

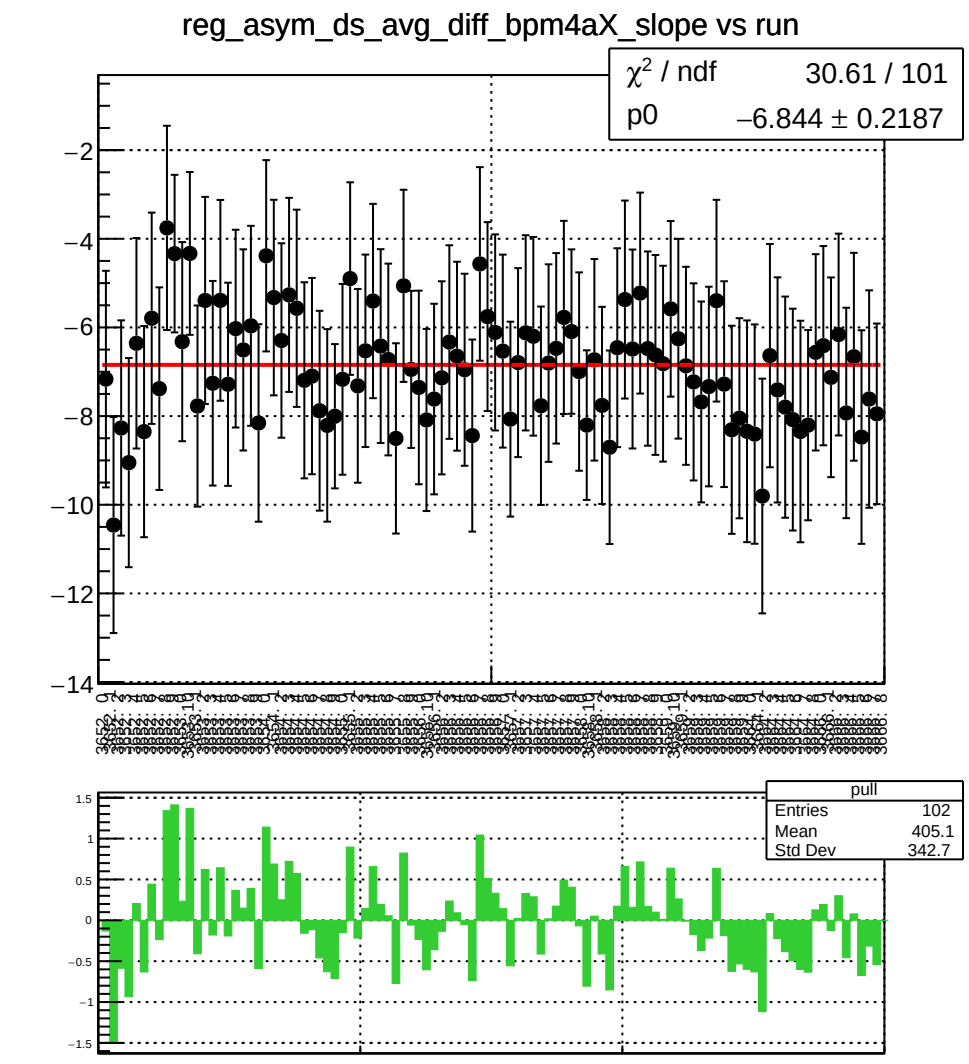

reg_asym_us_dd_diff_bpm4aY_slope vs run
χ² / ndf 5.235 / 101
p0 −5.942 ± 0.3788
pull
Entries 102
Mean 5257
Std Dev 5176
pull1D
Entries 102
Mean −7.325e−05
Std Dev 0.2265

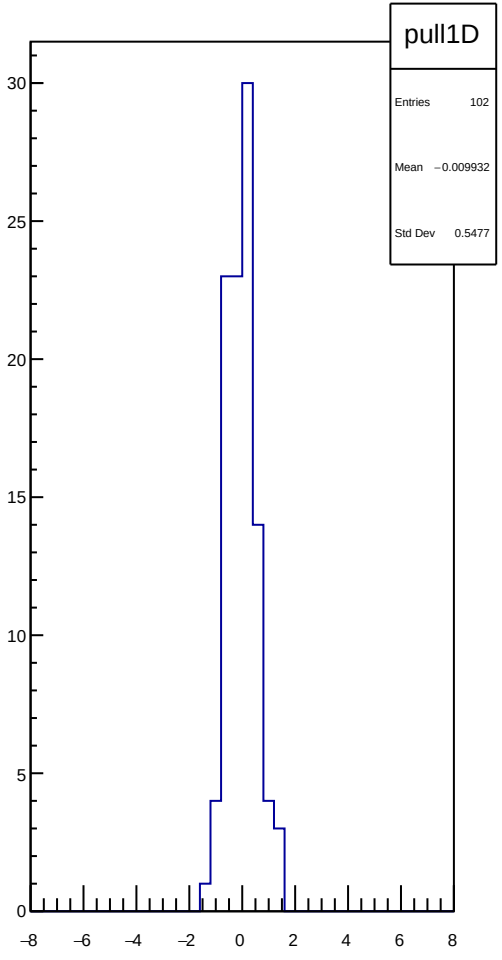

reg_asym_us_dd_diff_bpm4eX_slope vs run
χ² / ndf 7.919 / 101
p0 −49.89 ± 0.1008
−48
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
pull
Entries 102
Mean 1286
Std Dev 1225
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 102
Mean 0.002377
Std Dev 0.2786
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

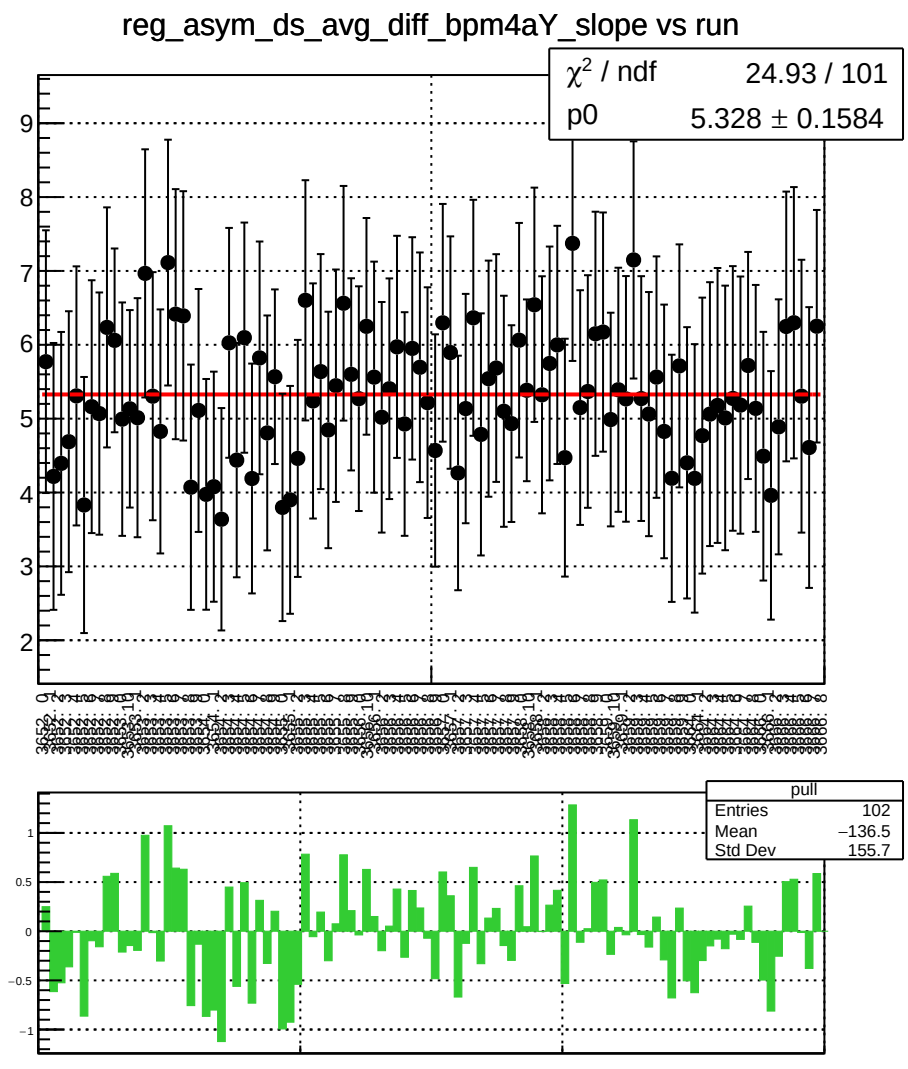

reg_asym_us_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.82 / 101
p0 10.26 ± 0.5958
pull
Entries 102
Mean −509
Std Dev 564.6
pull1D
Entries 102
Mean −0.0004808
Std Dev 0.2174

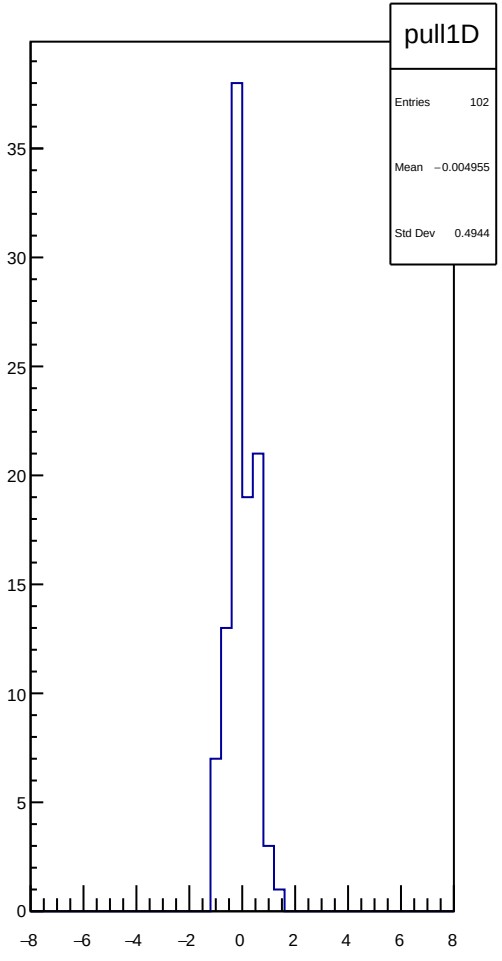

reg_asym_us_dd_diff_bpm11X_slope vs run
χ² / ndf 3.739 / 101
p0 4.348 ± 0.1295
pull
Entries 102
Mean −49.64
Std Dev 120.3

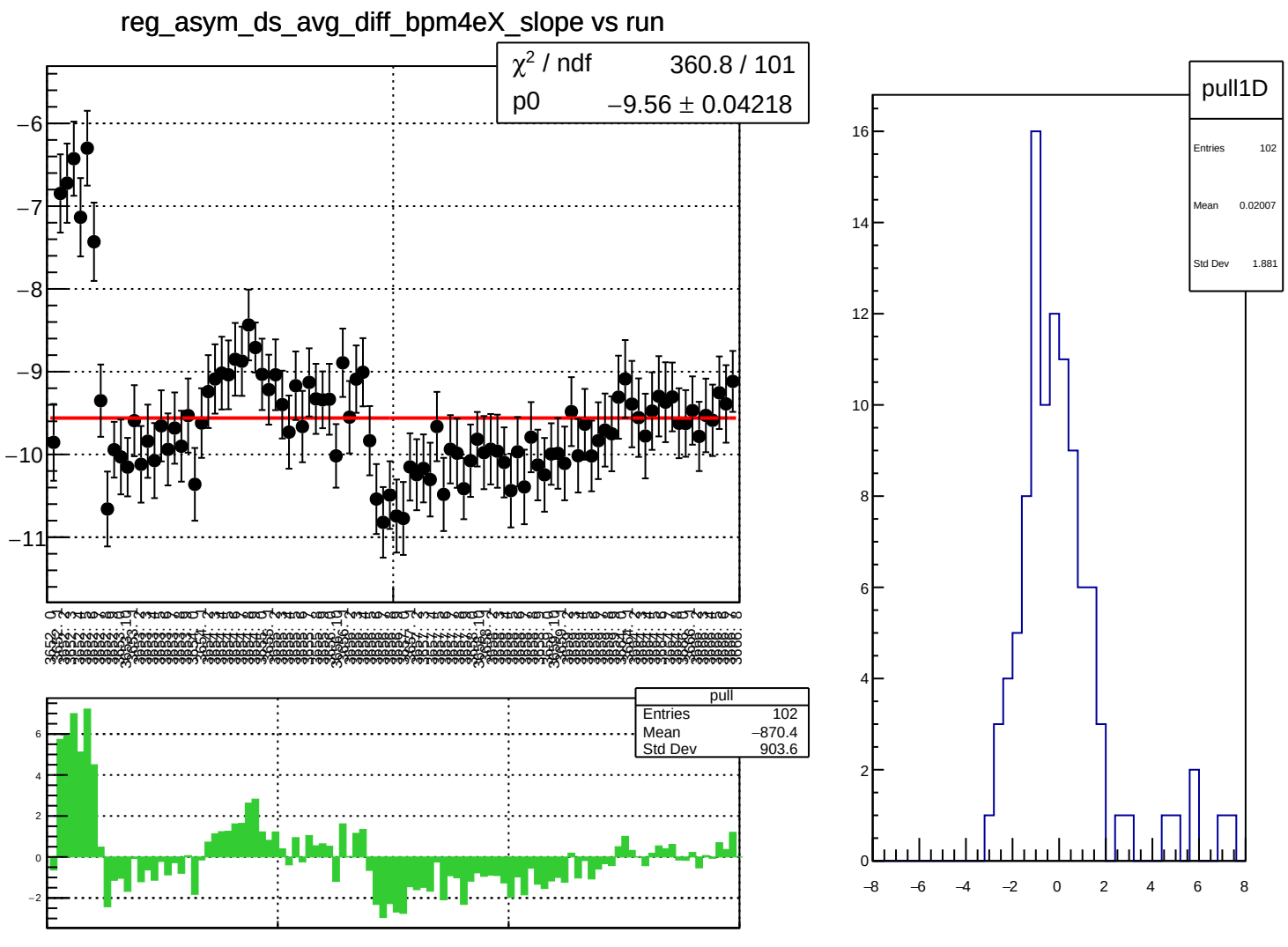

pull1D
Entries 102
Mean −0.001485
Std Dev 0.1915

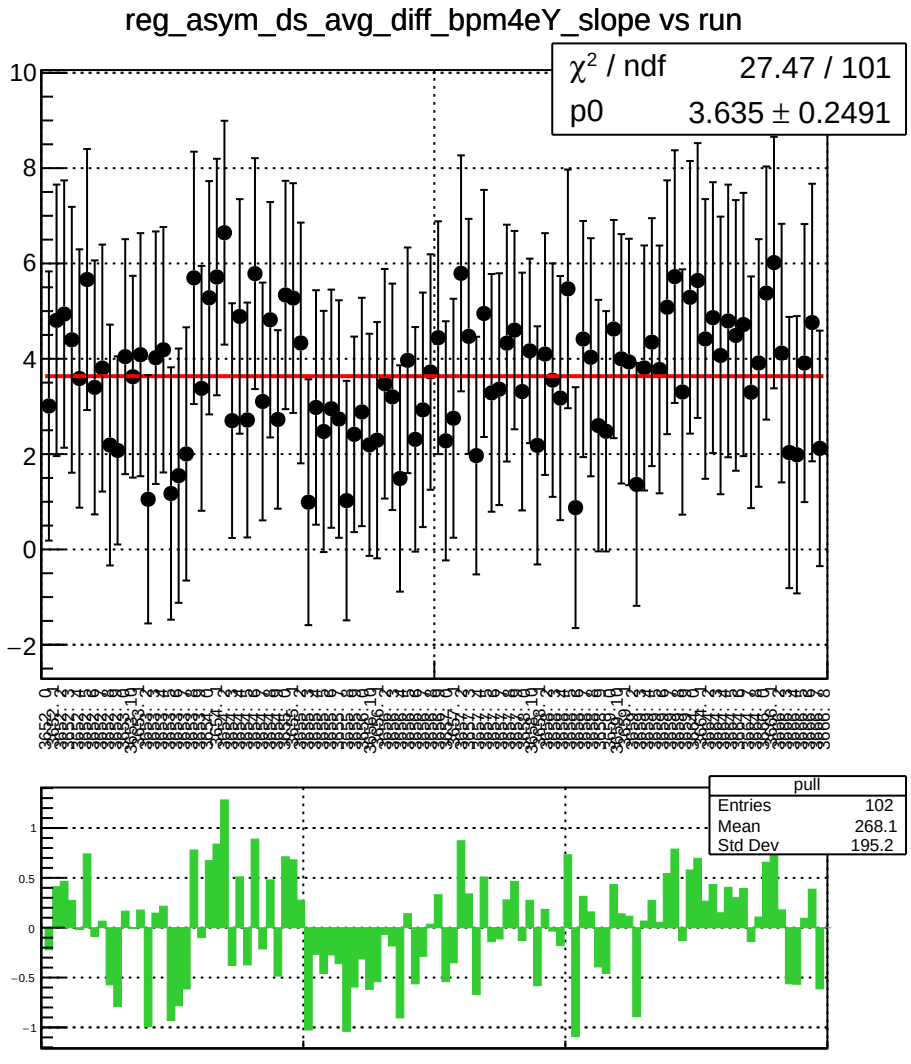

reg_asym_ds_avg_diff_bpm4aX_slope vs run
χ² / ndf 30.61 / 101
p0 −6.844 ± 0.2187
pull
Entries 102
Mean 405.1
Std Dev 342.7

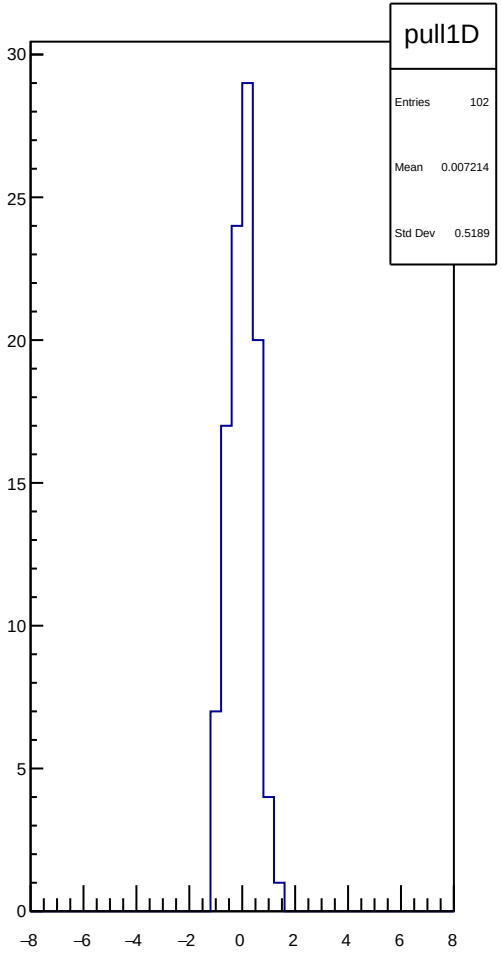

pull1D
Entries 102
Mean −0.009932
Std Dev 0.5477

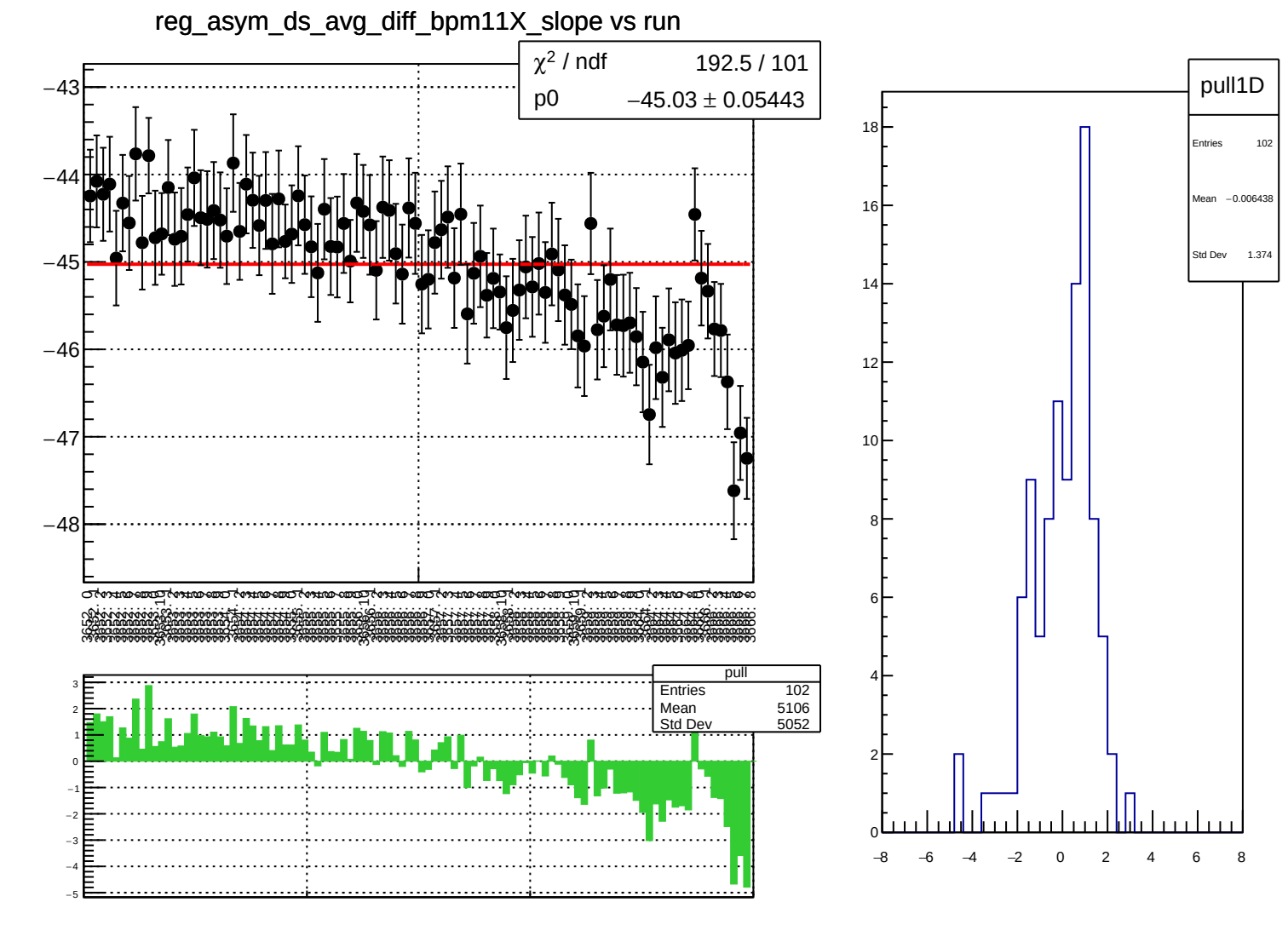

reg_asym_ds_avg_diff_bpm4aY_slope vs run
χ² / ndf 24.93 / 101
p0 5.328 ± 0.1584
pull
Entries 102
Mean −136.5
Std Dev 155.7

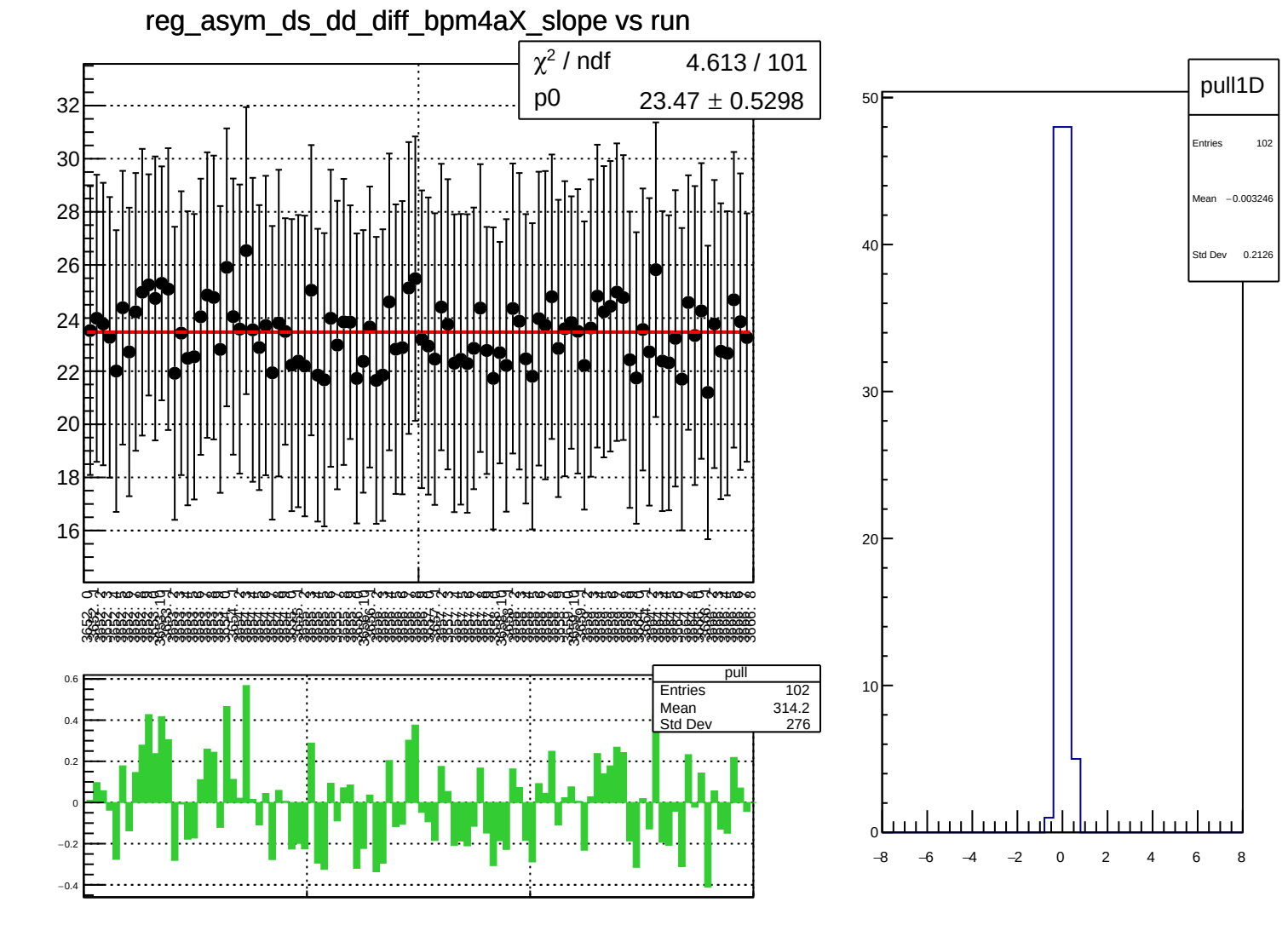

pull1D
Entries 102
Mean −0.004955
Std Dev 0.4944

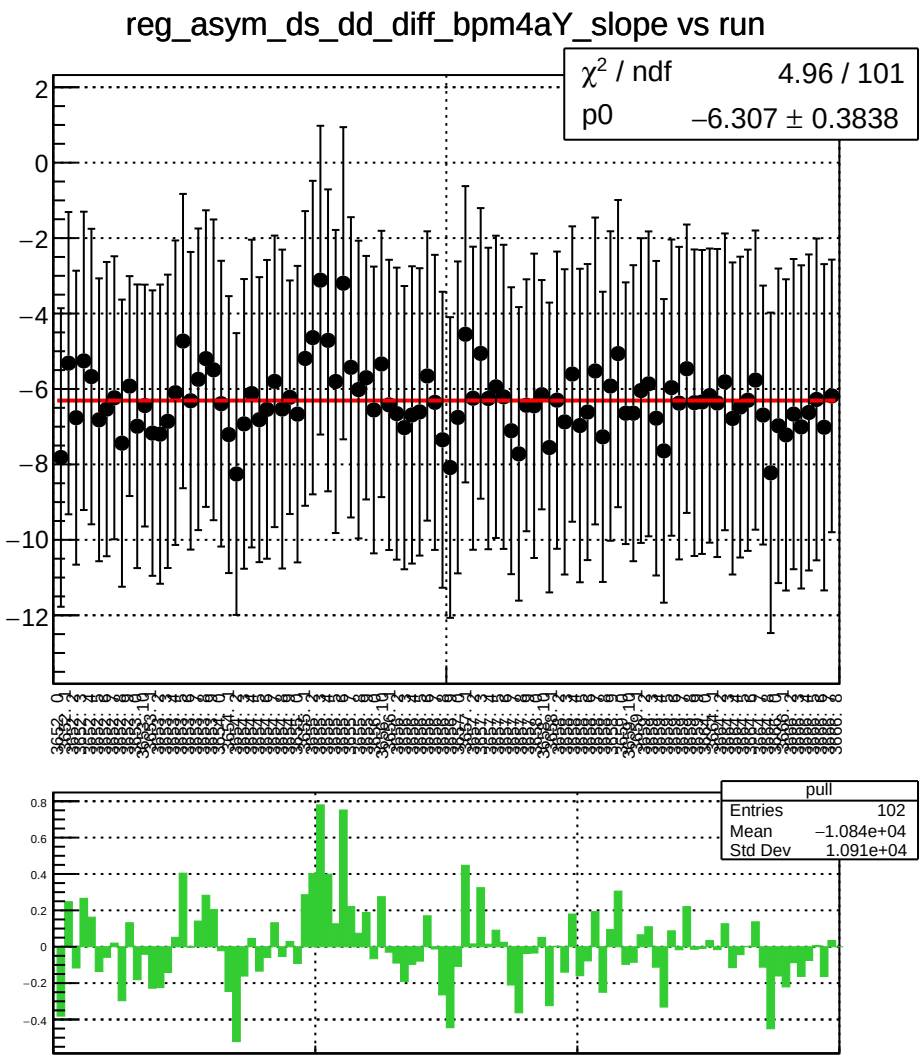

reg_asym_ds_avg_diff_bpm4eX_slope vs run
χ² / ndf 360.8 / 101
p0 −9.56 ± 0.04218
pull
Entries 102
Mean −870.4
Std Dev 903.6
pull1D
Entries 102
Mean 0.02007
Std Dev 1.881

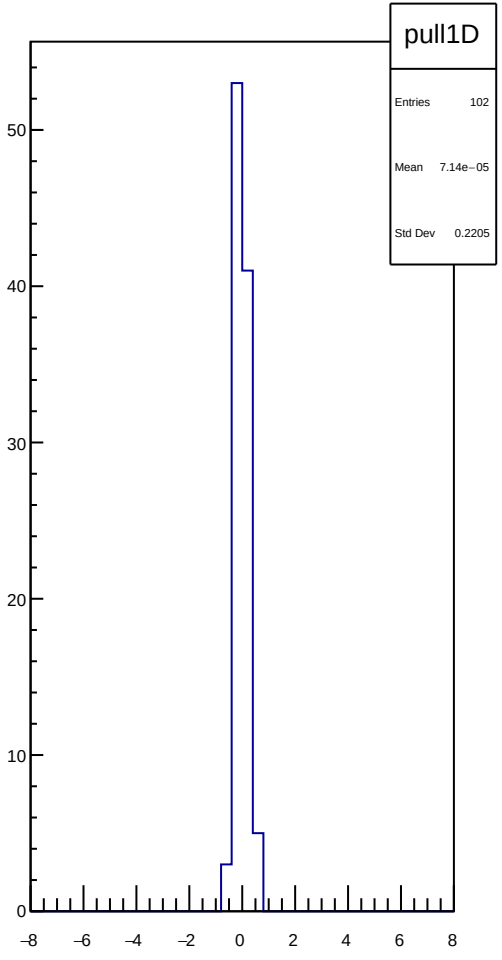

reg_asym_ds_avg_diff_bpm4eY_slope vs run
χ² / ndf 27.47 / 101
p0 3.635 ± 0.2491
pull
Entries 102
Mean 268.1
Std Dev 195.2

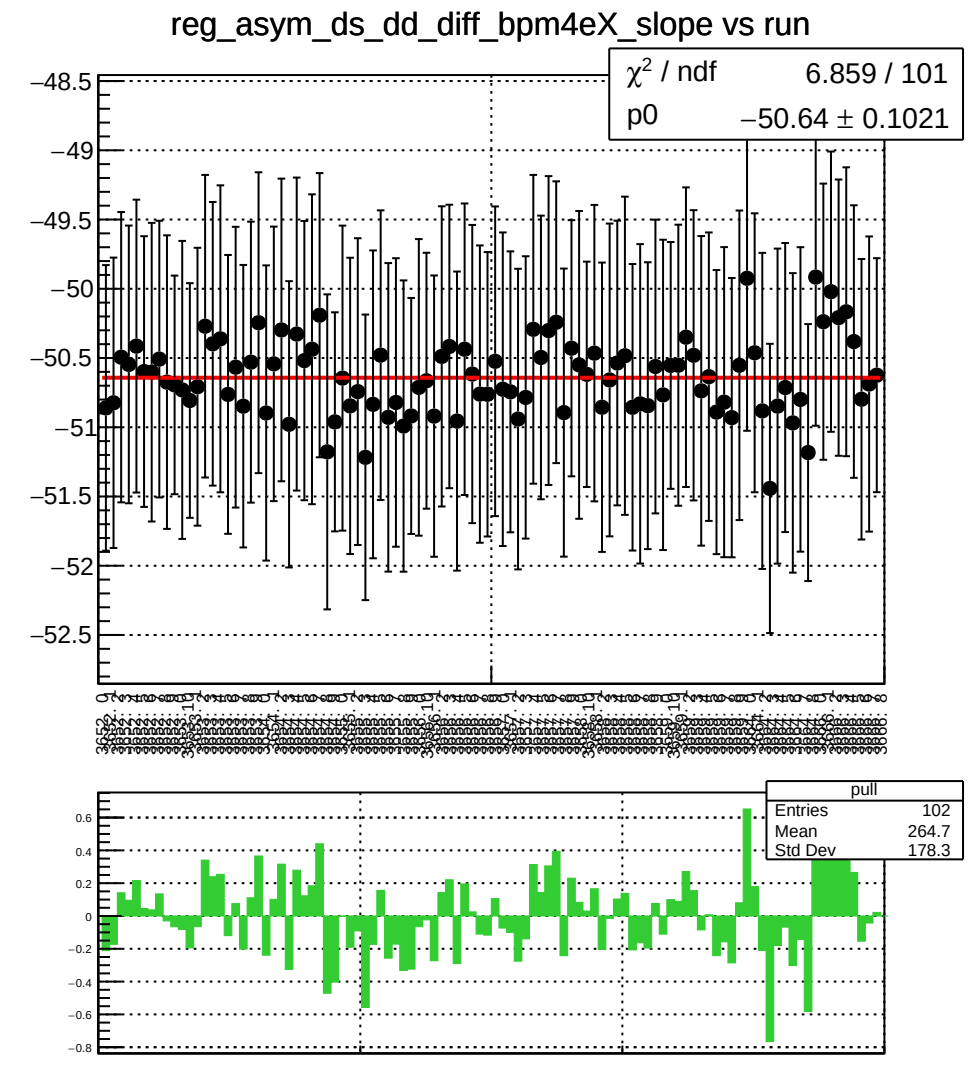

pull1D
Entries 102
Mean 0.007214
Std Dev 0.5189

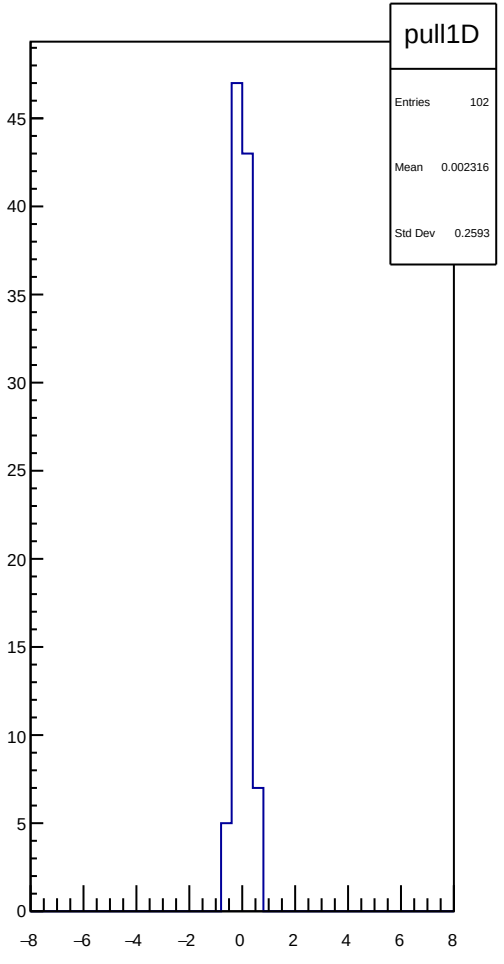

reg_asym_ds_avg_diff_bpm11X_slope vs run
χ² / ndf 192.5 / 101
p0 −45.03 ± 0.05443
pull
Entries 102
Mean 5106
Std Dev 5052
pull1D
Entries 102
Mean −0.006438
Std Dev 1.374

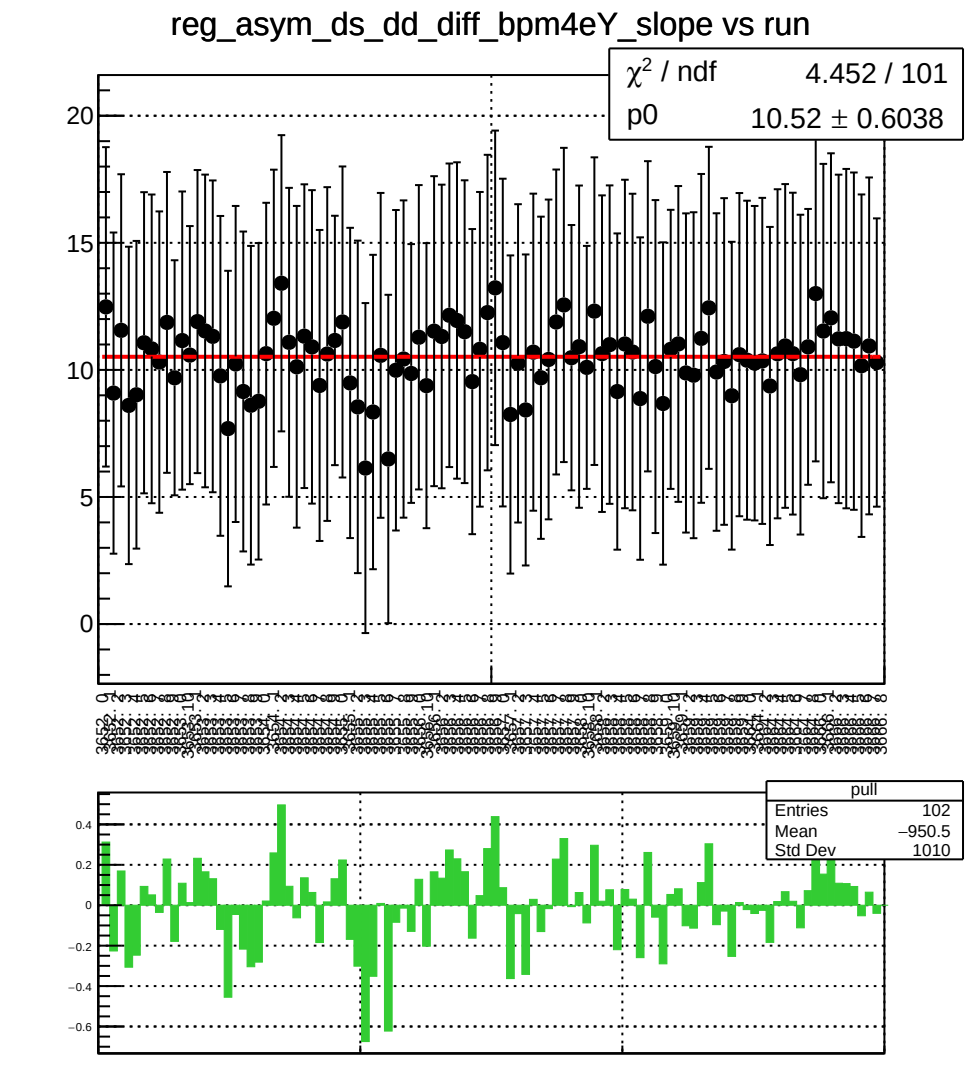

reg_asym_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 4.613 / 101
p0 23.47 ± 0.5298
pull
Entries 102
Mean 314.2
Std Dev 276
pull1D
Entries 102
Mean −0.003246
Std Dev 0.2126

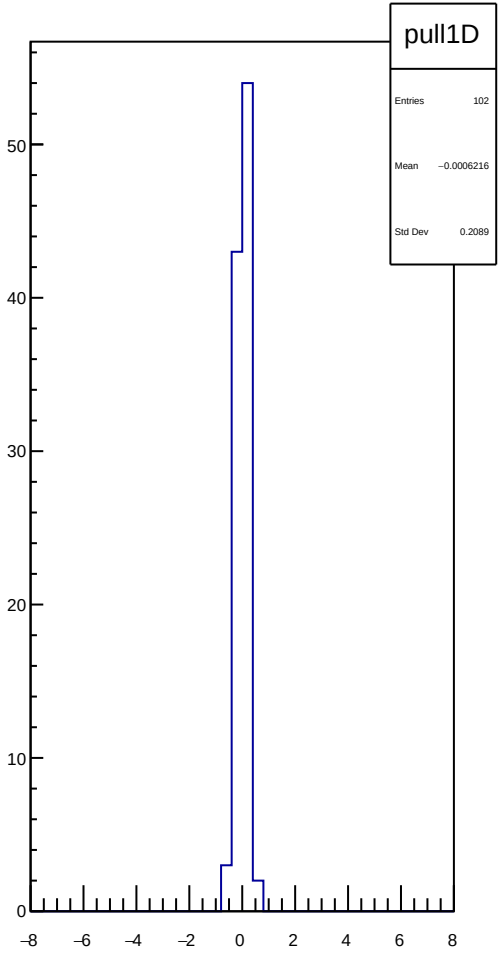

reg_asym_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.96 / 101
p0 −6.307 ± 0.3838
pull
Entries 102
Mean −1.084e+04
Std Dev 1.091e+04

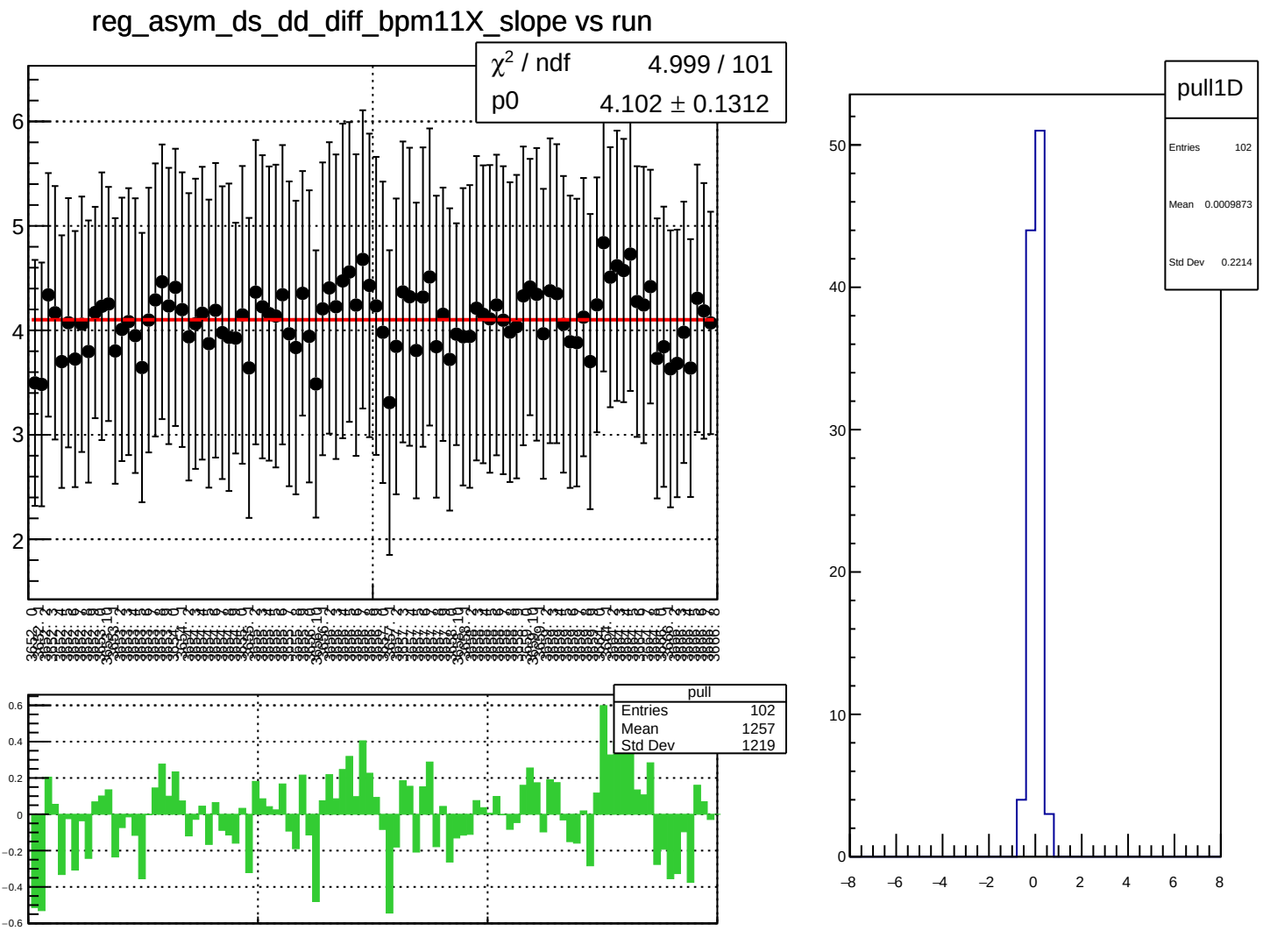

pull1D
Entries 102
Mean 7.14e−05
Std Dev 0.2205

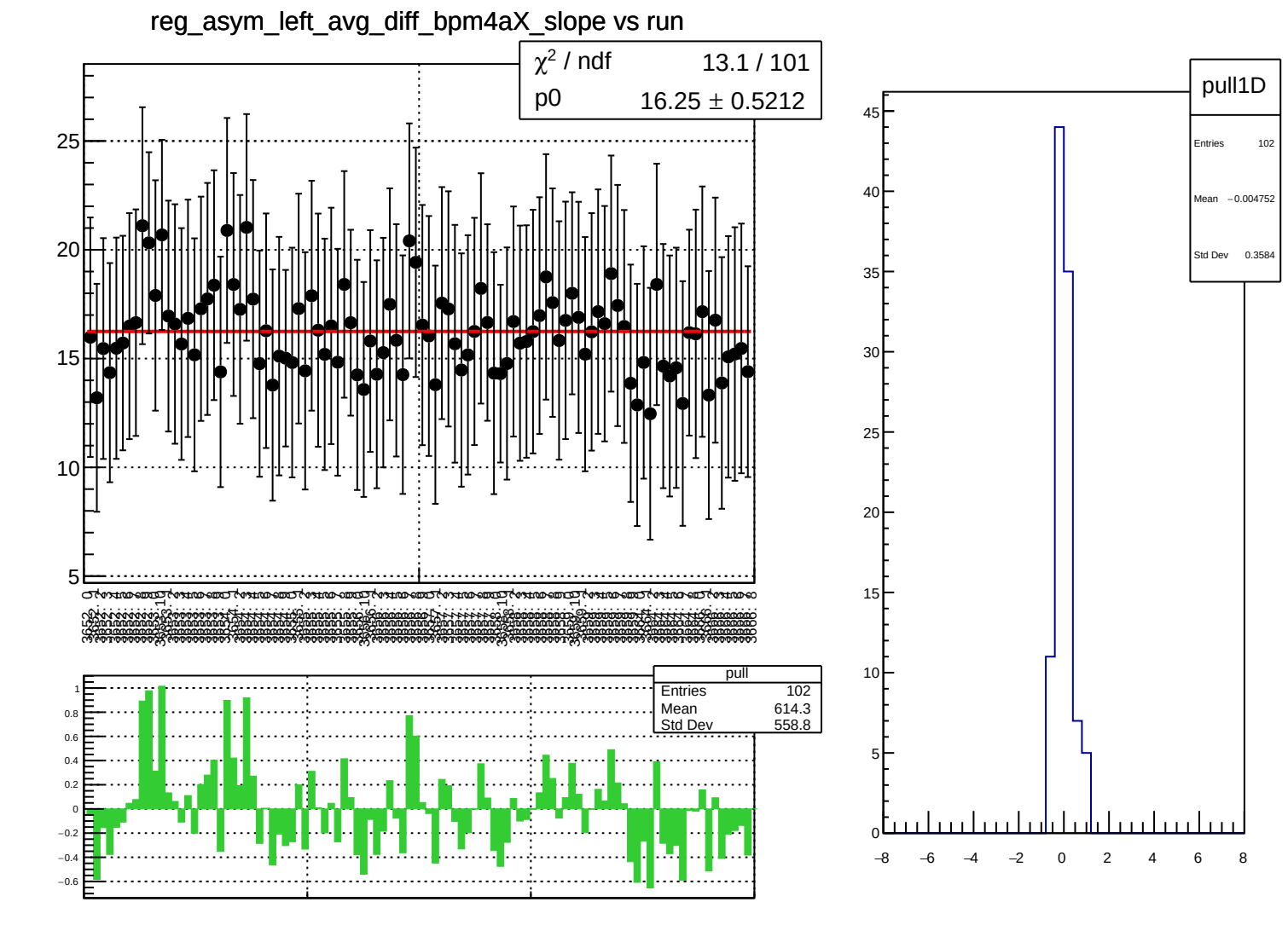

reg_asym_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 6.859 / 101
p0 −50.64 ± 0.1021
−48.5
−49
−49.5
−50
−50.5
−51
−51.5
−52
−52.5
pull
Entries 102
Mean 264.7
Std Dev 178.3
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

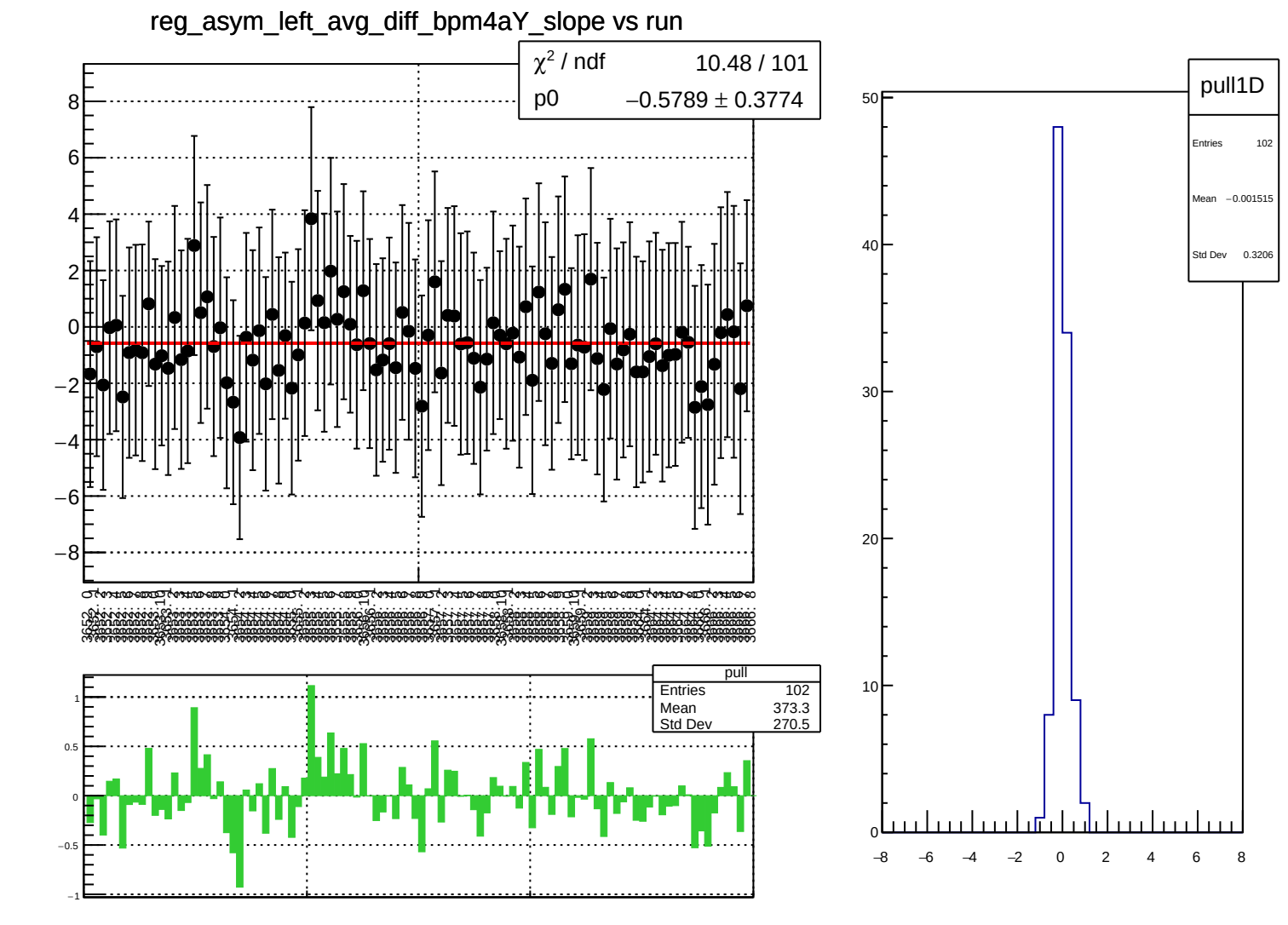

pull1D
Entries 102
Mean 0.002316
Std Dev 0.2593
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

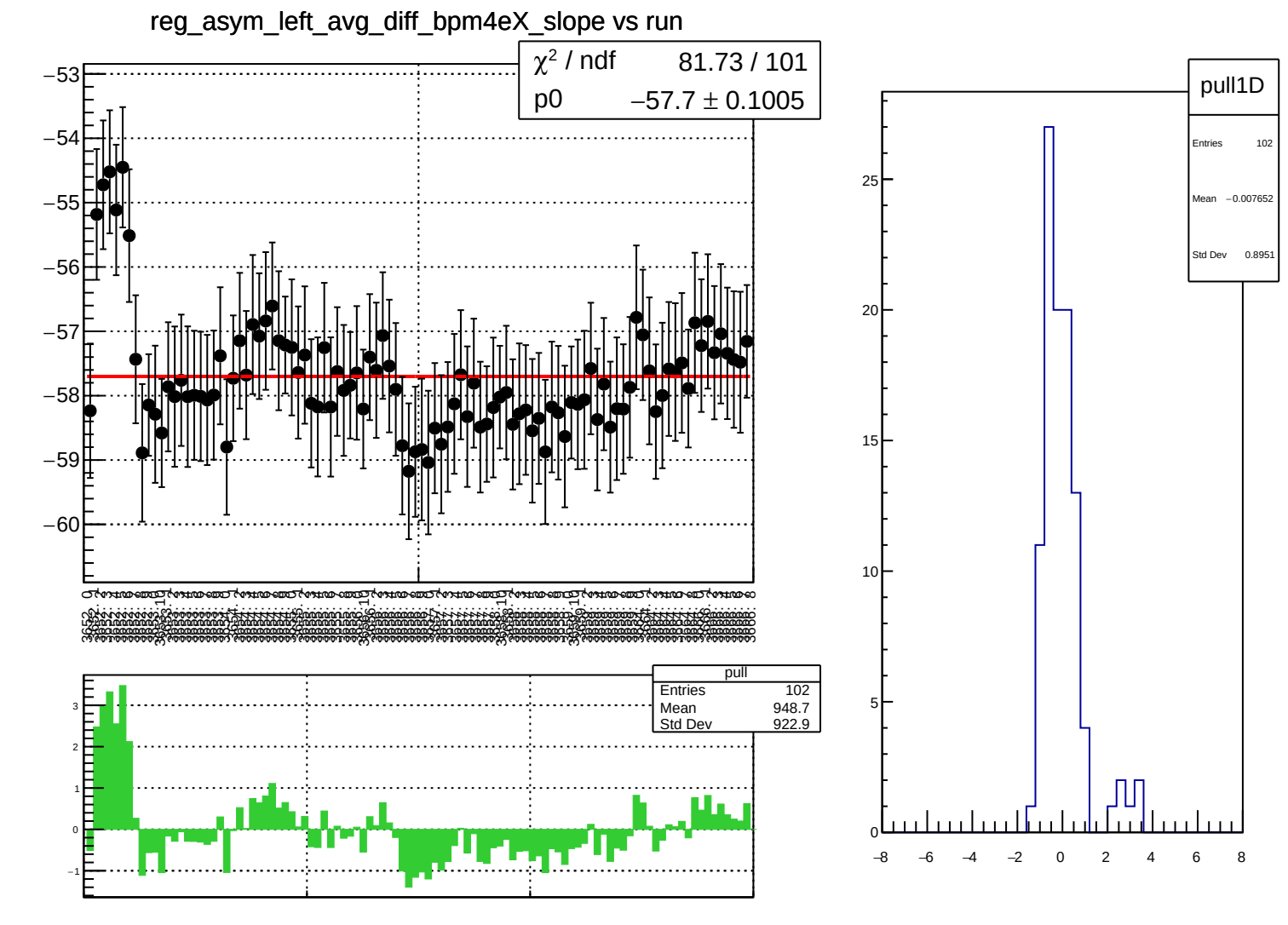

reg_asym_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 4.452 / 101
p0 10.52 ± 0.6038
pull
Entries 102
Mean −950.5
Std Dev 1010

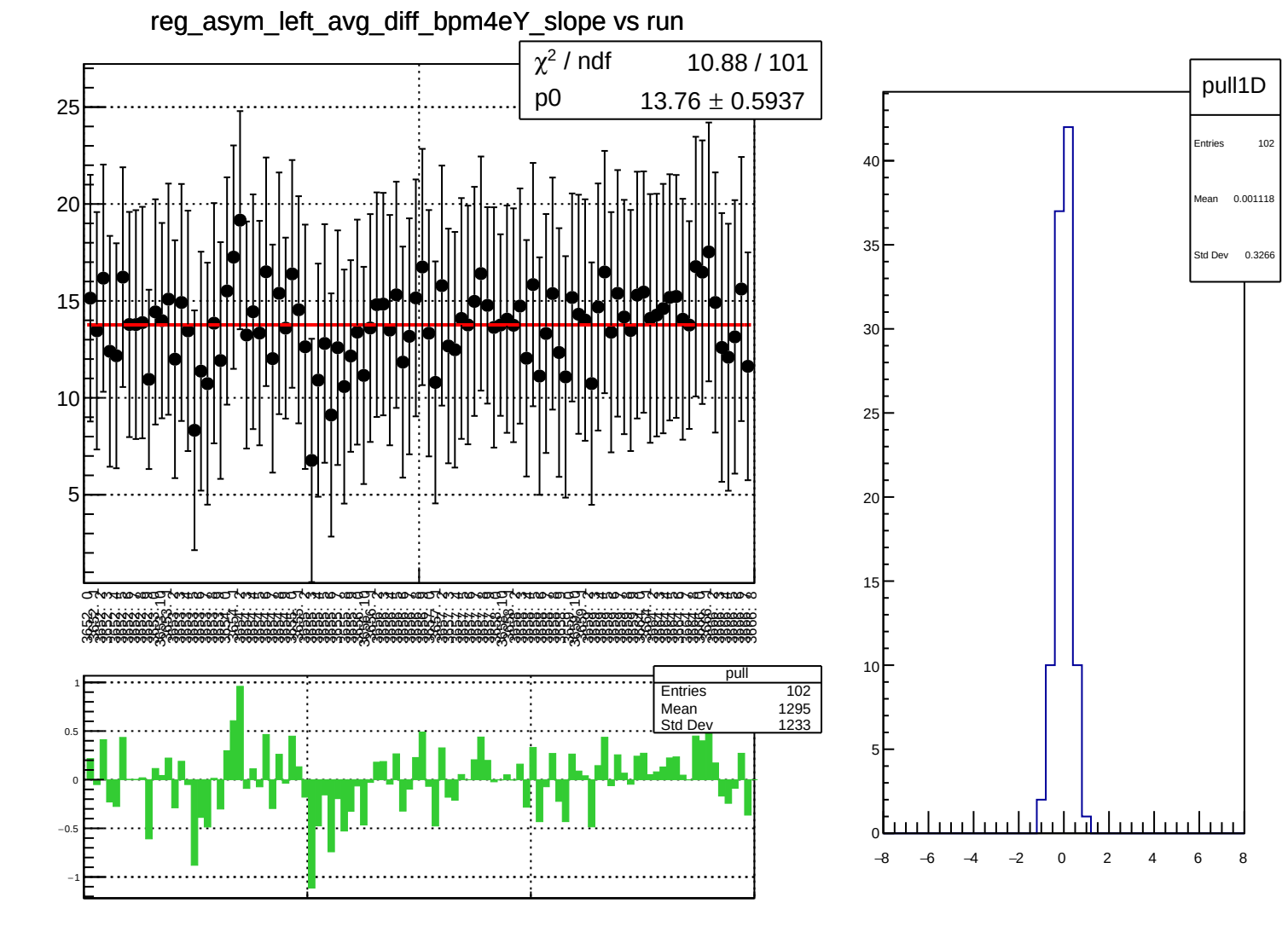

pull1D
Entries 102
Mean −0.0006216
Std Dev 0.2089

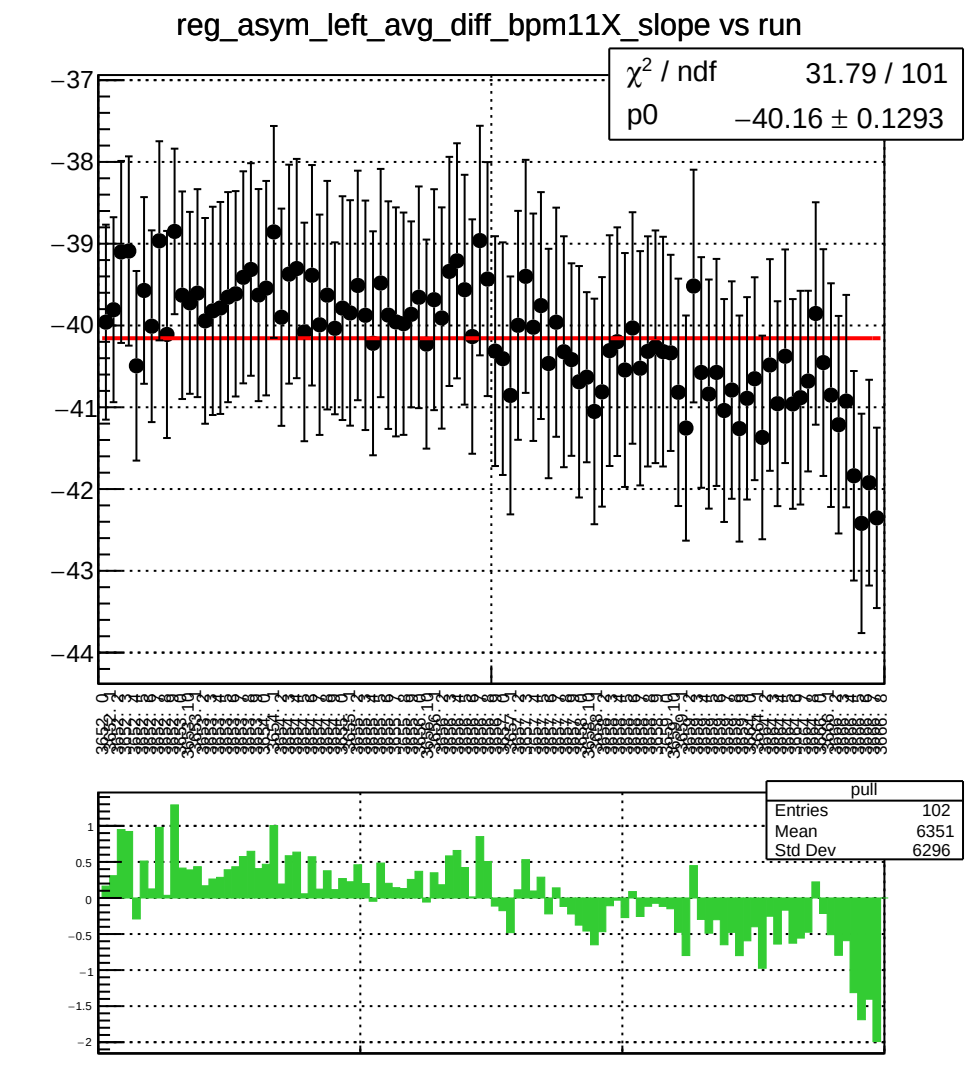

reg_asym_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 4.999 / 101
p0 4.102 ± 0.1312
pull
Entries 102
Mean 1257
Std Dev 1219
pull1D
Entries 102
Mean 0.0009873
Std Dev 0.2214

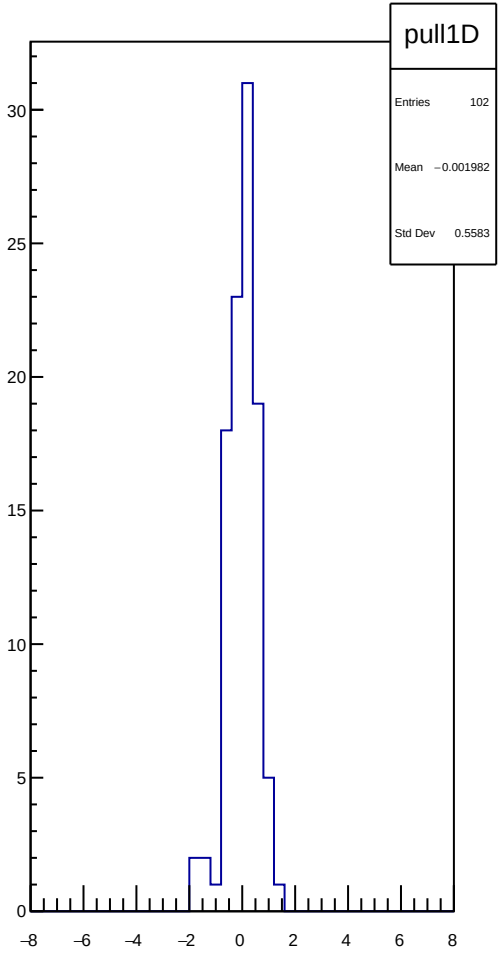

reg_asym_left_avg_diff_bpm4aX_slope vs run
χ² / ndf 13.1 / 101
p0 16.25 ± 0.5212
pull
Entries 102
Mean 614.3
Std Dev 558.8
pull1D
Entries 102
Mean −0.004752
Std Dev 0.3584

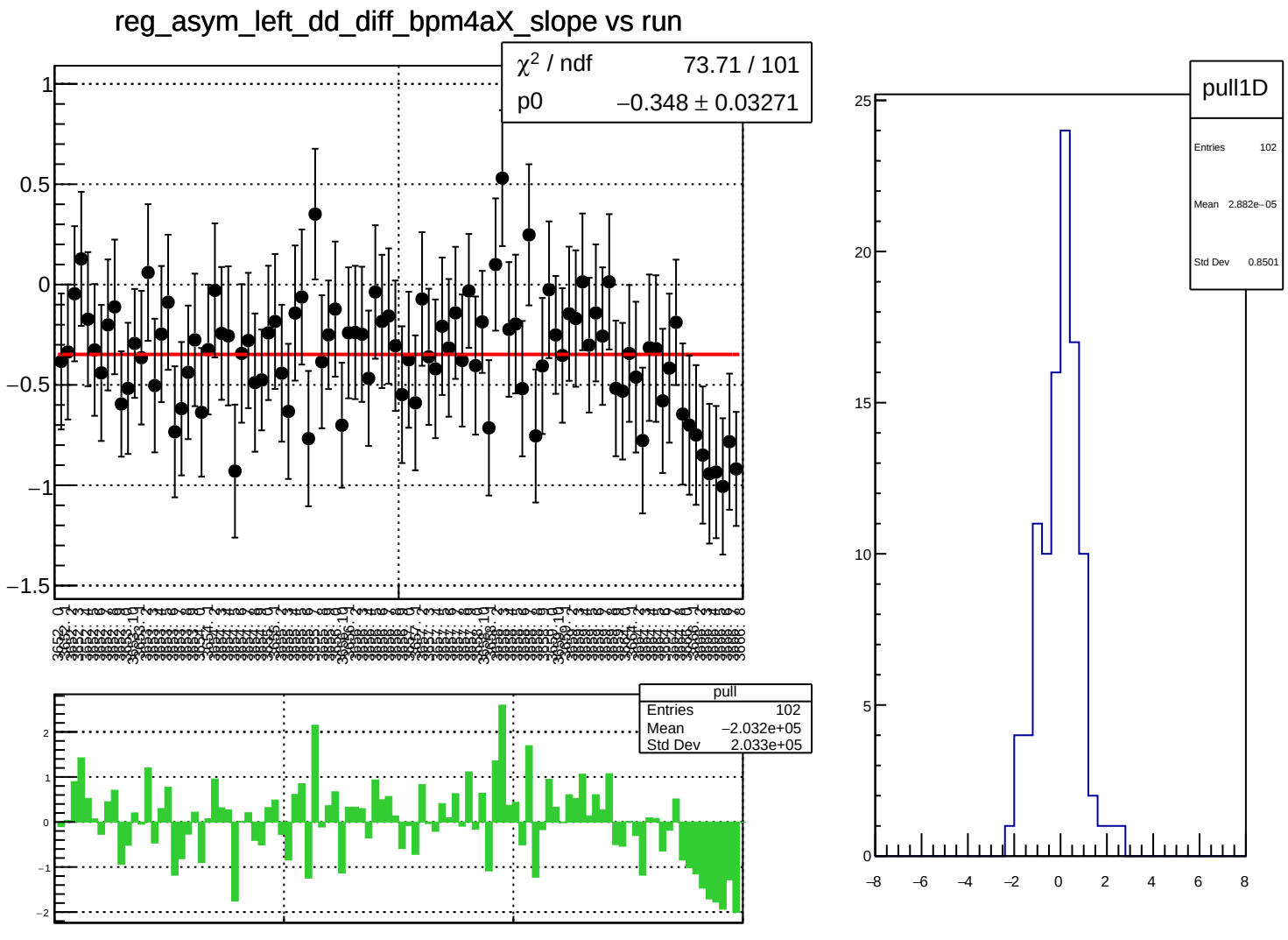

reg_asym_left_avg_diff_bpm4aY_slope vs run
χ² / ndf 10.48 / 101
p0 −0.5789 ± 0.3774
pull
Entries 102
Mean 373.3
Std Dev 270.5
pull1D
Entries 102
Mean −0.001515
Std Dev 0.3206

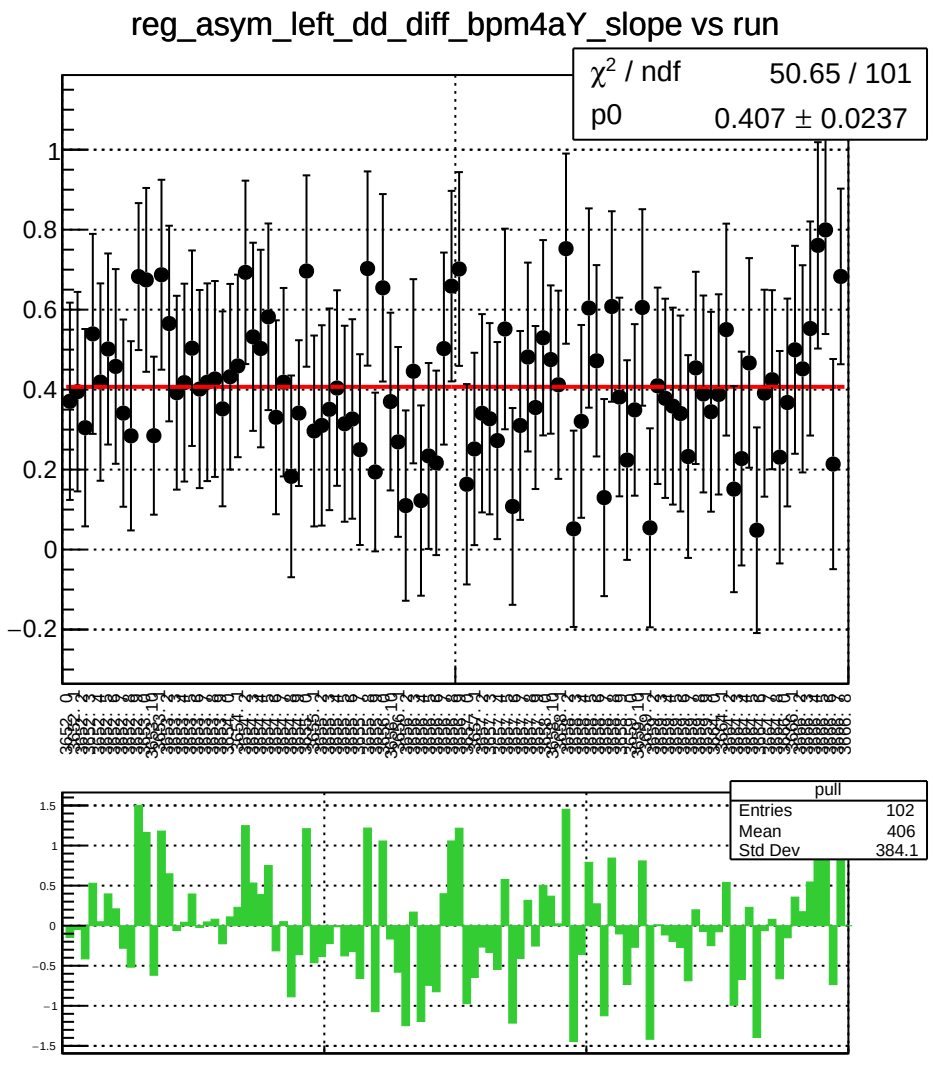

reg_asym_left_avg_diff_bpm4eX_slope vs run
χ² / ndf 81.73 / 101
p0 −57.7 ± 0.1005
pull
Entries 102
Mean 948.7
Std Dev 922.9
pull1D
Entries 102
Mean −0.007652
Std Dev 0.8951

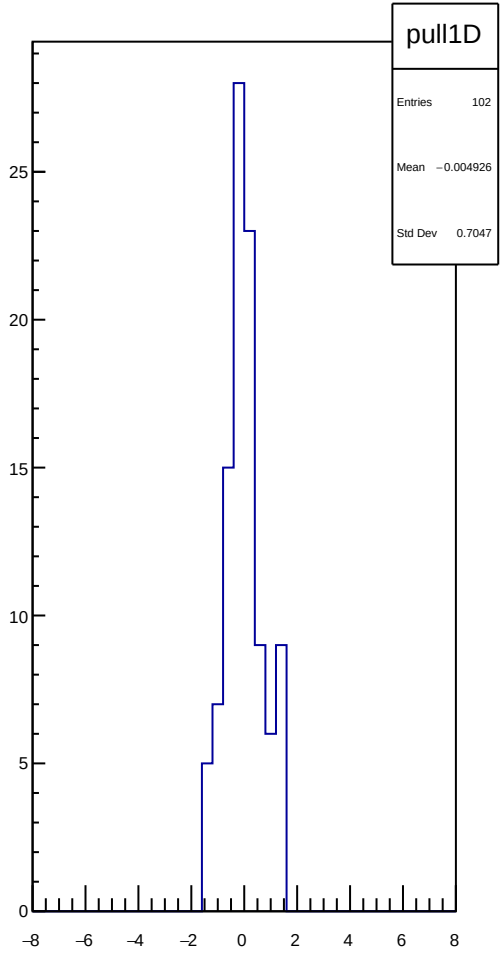

reg_asym_left_avg_diff_bpm4eY_slope vs run
χ² / ndf 10.88 / 101
p0 13.76 ± 0.5937
pull
Entries 102
Mean 1295
Std Dev 1233
pull1D
Entries 102
Mean 0.001118
Std Dev 0.3266

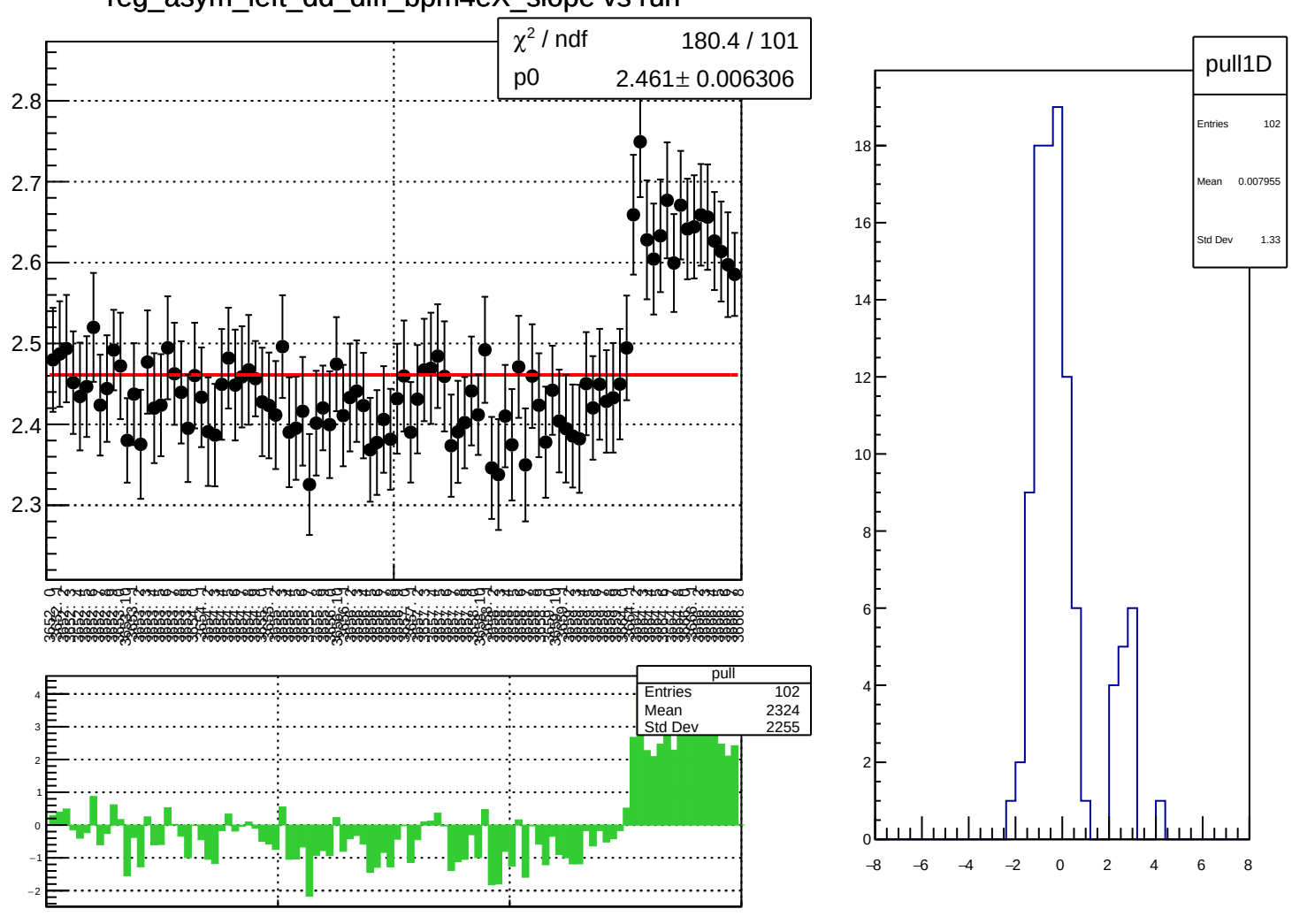

reg_asym_left_avg_diff_bpm11X_slope vs run
χ² / ndf 31.79 / 101
p0 −40.16 ± 0.1293
pull
Entries 102
Mean 6351
Std Dev 6296

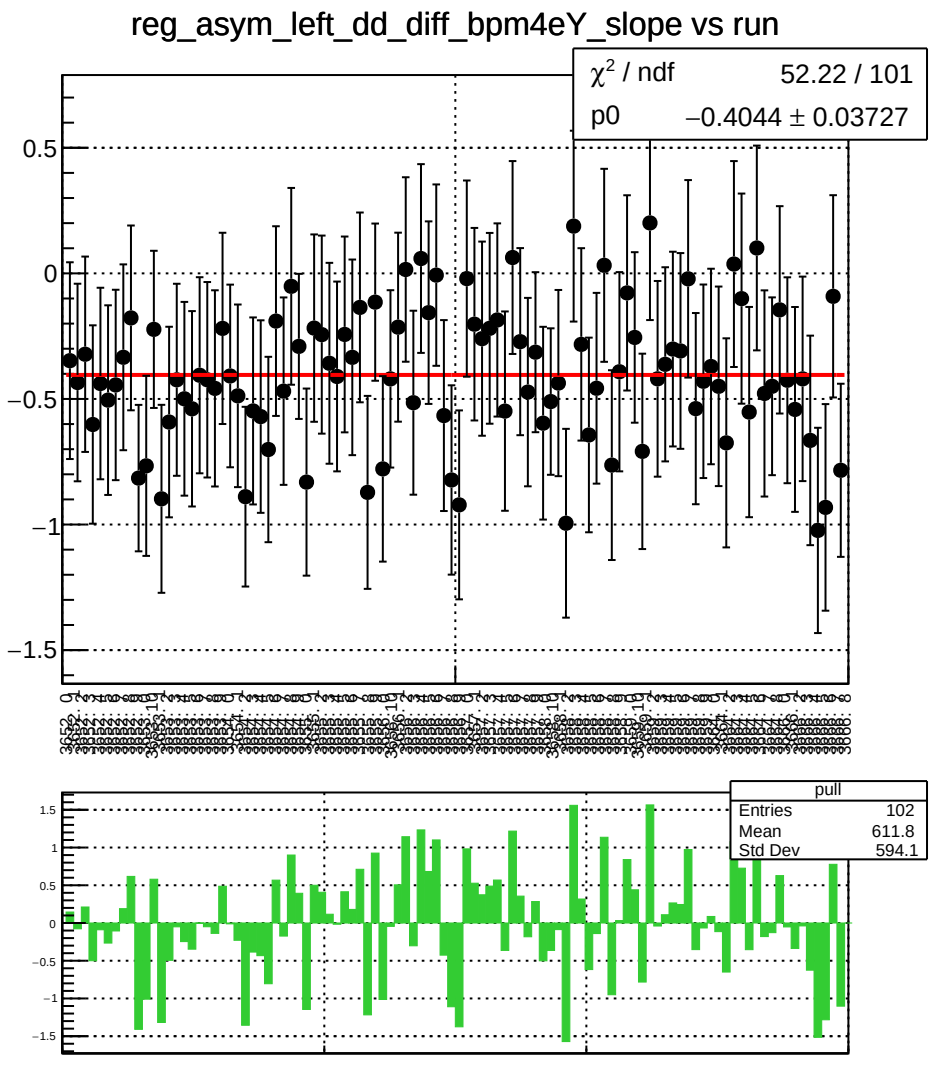

pull1D
Entries 102
Mean −0.001982
Std Dev 0.5583

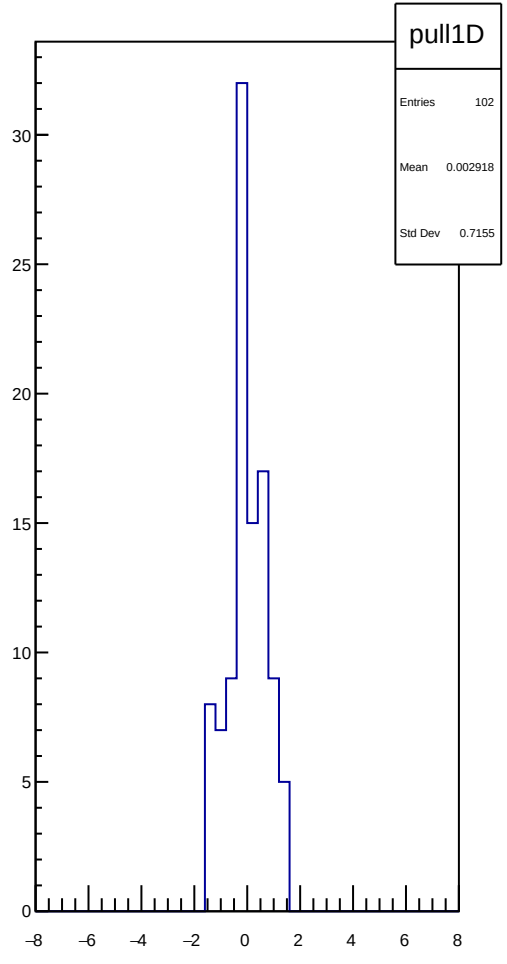

reg_asym_left_dd_diff_bpm4aX_slope vs run
χ² / ndf 73.71 / 101
p0 −0.348 ± 0.03271
pull
Entries 102
Mean −2.032e+05
Std Dev 2.033e+05
pull1D
Entries 102
Mean 2.882e−05
Std Dev 0.8501

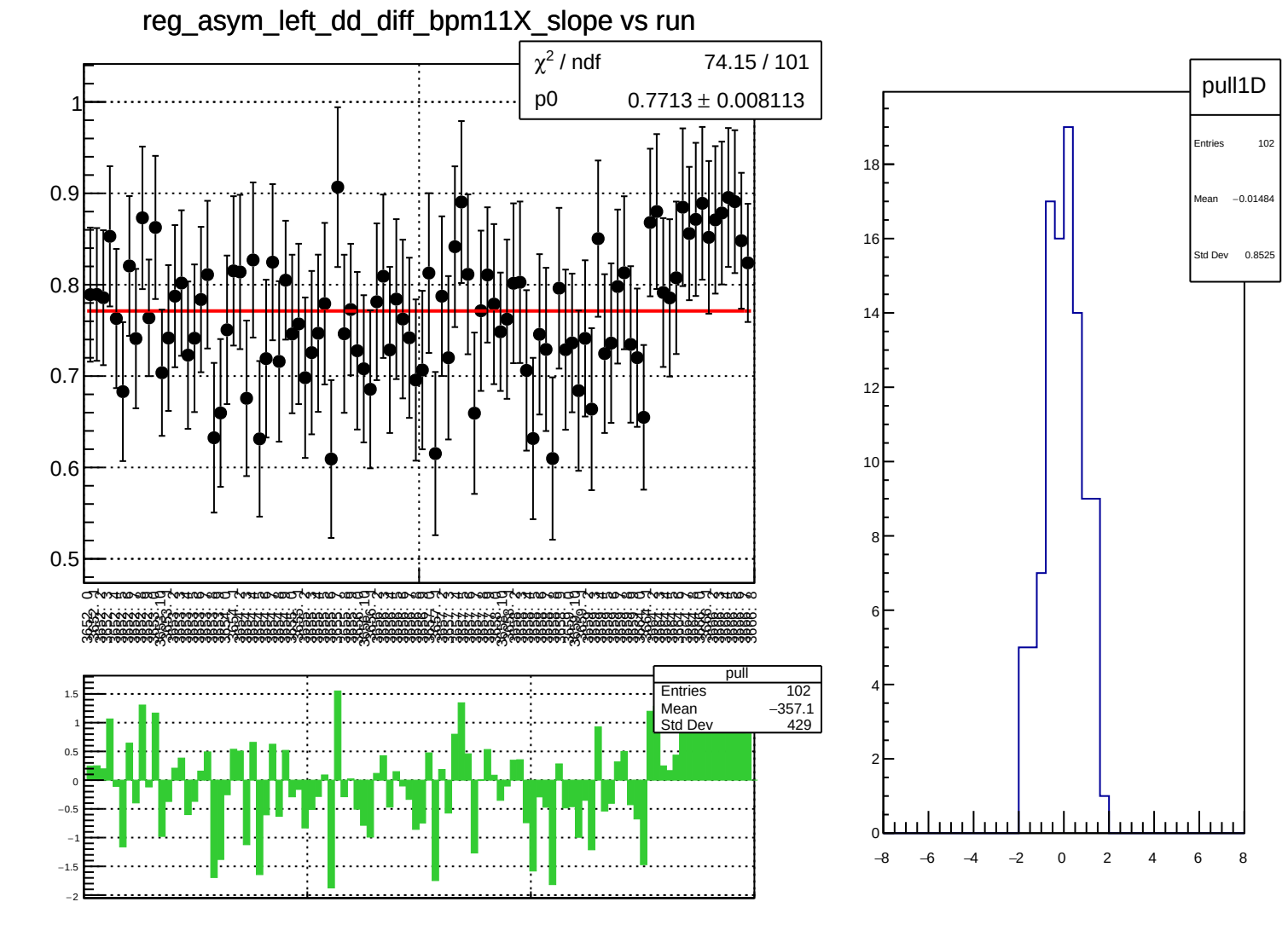

reg_asym_left_dd_diff_bpm4aY_slope vs run
χ² / ndf 50.65 / 101
p0 0.407 ± 0.0237
pull
Entries 102
Mean 406
Std Dev 384.1

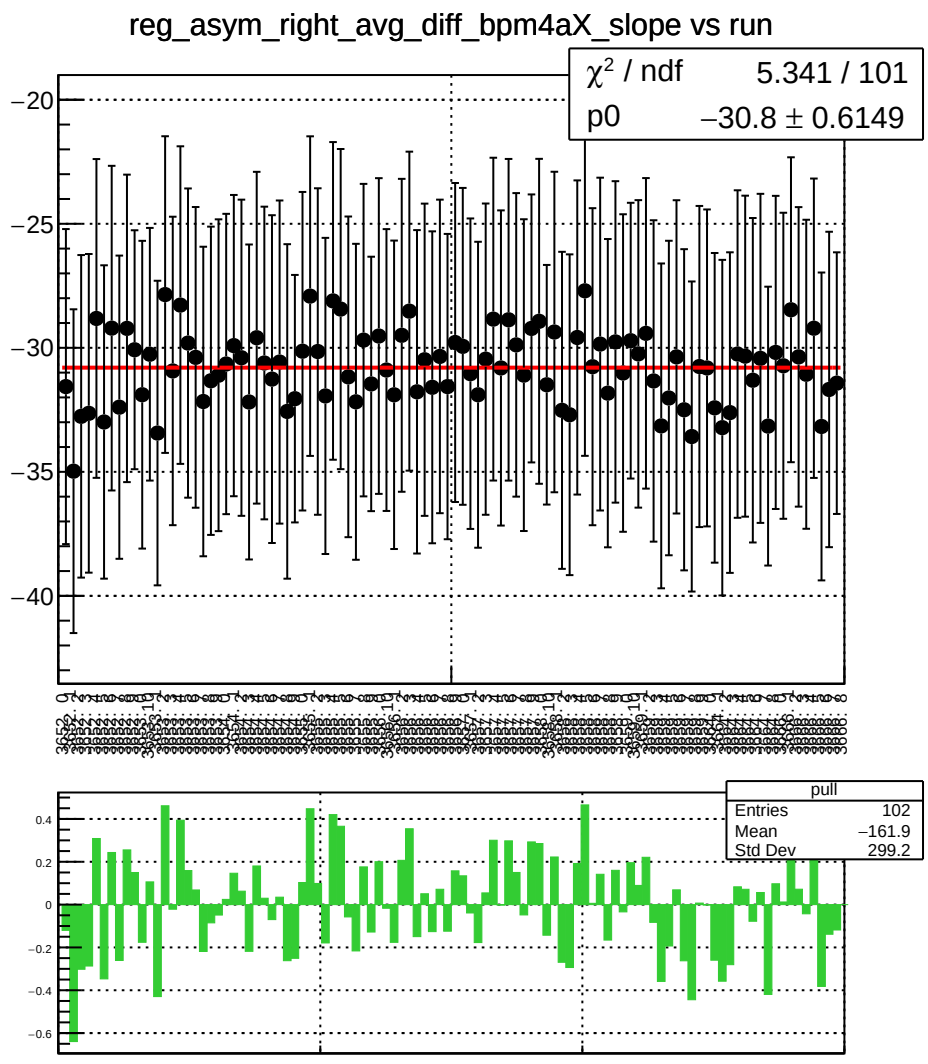

pull1D
Entries 102
Mean −0.004926
Std Dev 0.7047

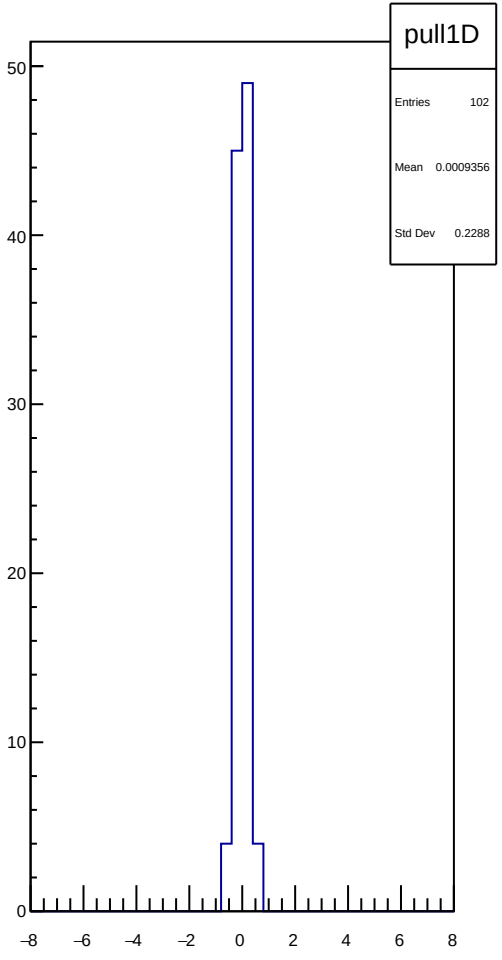

reg_asym_left_dd_diff_bpm4eX_slope vs run
χ² / ndf 180.4 / 101
p0 2.461± 0.006306
pull
Entries 102
Mean 2324
Std Dev 2255
pull1D
Entries 102
Mean 0.007955
Std Dev 1.33

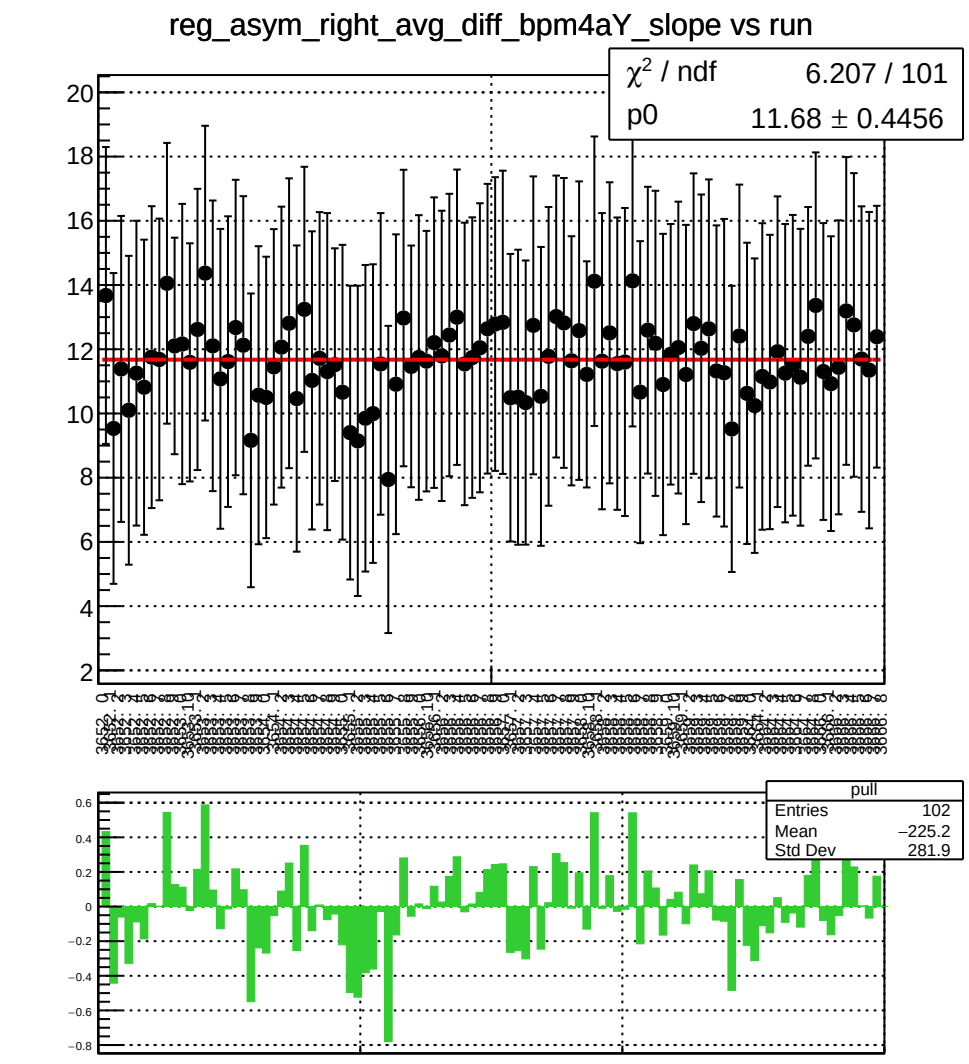

reg_asym_left_dd_diff_bpm4eY_slope vs run
χ² / ndf 52.22 / 101
p0 −0.4044 ± 0.03727
0.5
0
−0.5
−1
−1.5
pull
Entries 102
Mean 611.8
Std Dev 594.1
1.5
1
0.5
0
−0.5
−1
−1.5

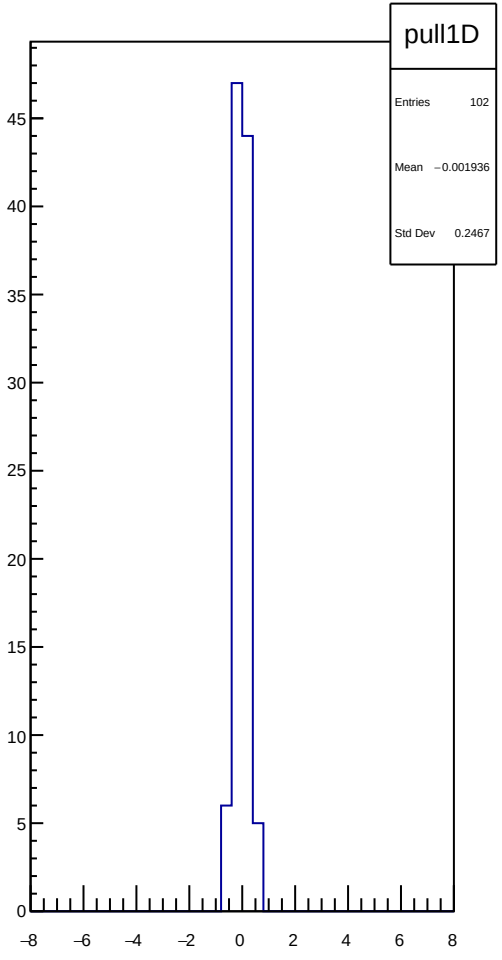

pull1D
Entries 102
Mean 0.002918
Std Dev 0.7155
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

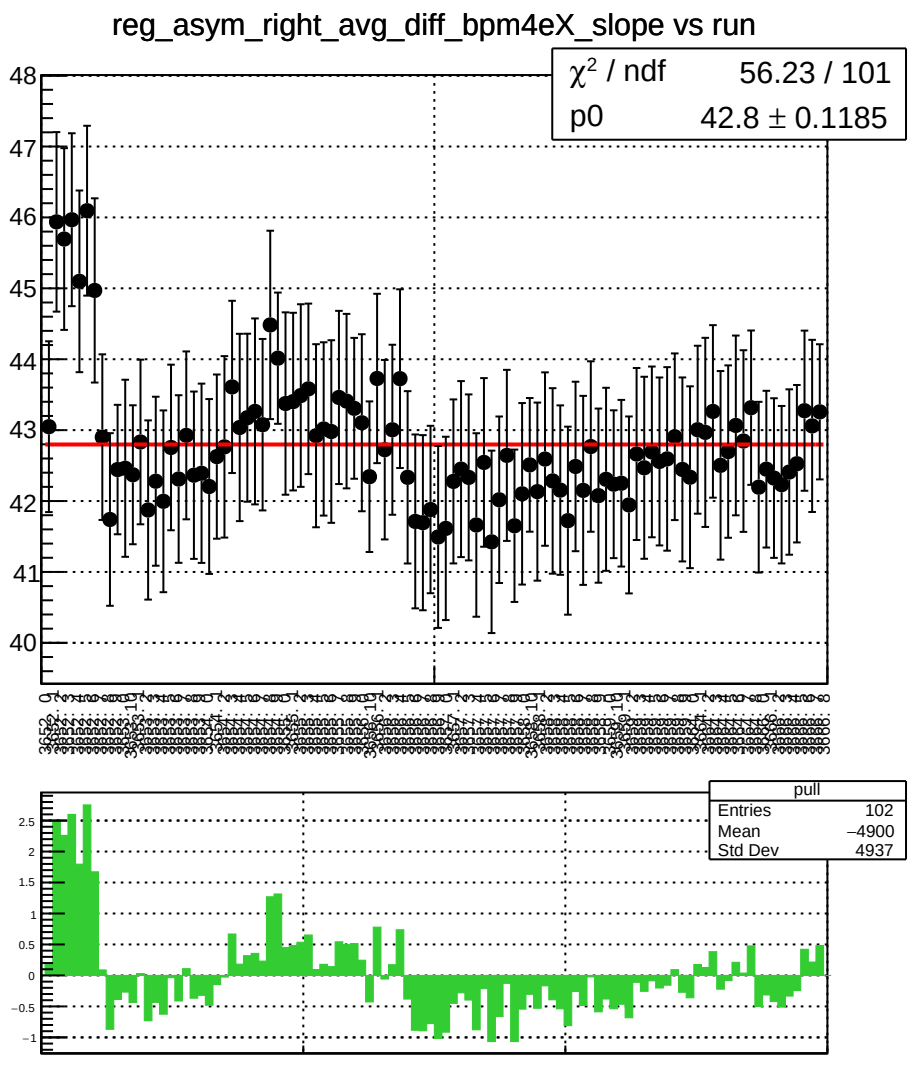

reg_asym_left_dd_diff_bpm11X_slope vs run
χ² / ndf 74.15 / 101
p0 0.7713 ± 0.008113
pull
Entries 102
Mean −357.1
Std Dev 429
pull1D
Entries 102
Mean −0.01484
Std Dev 0.8525

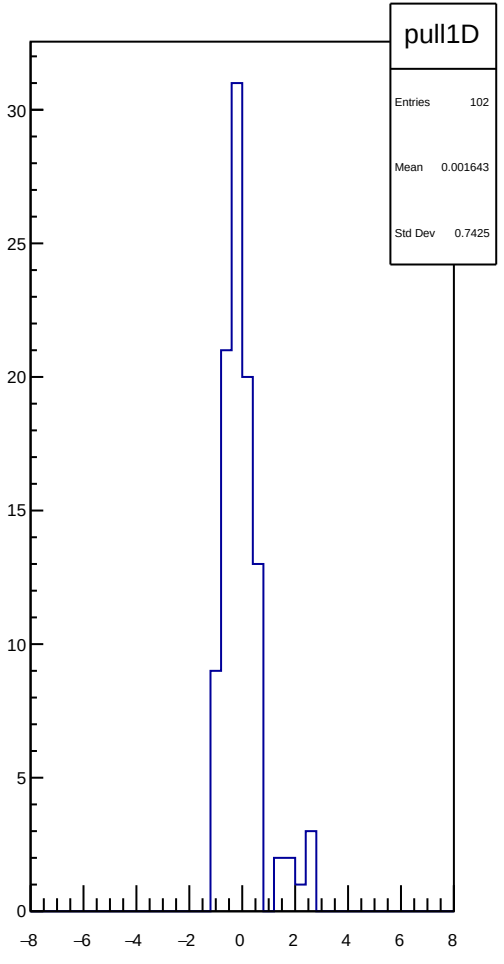

reg_asym_right_avg_diff_bpm4aX_slope vs run
χ² / ndf 5.341 / 101
p0 −30.8 ± 0.6149
−20
−25
−30
−35
−40
pull
Entries 102
Mean −161.9
Std Dev 299.2
0.4
0.2
0
−0.2
−0.4
−0.6

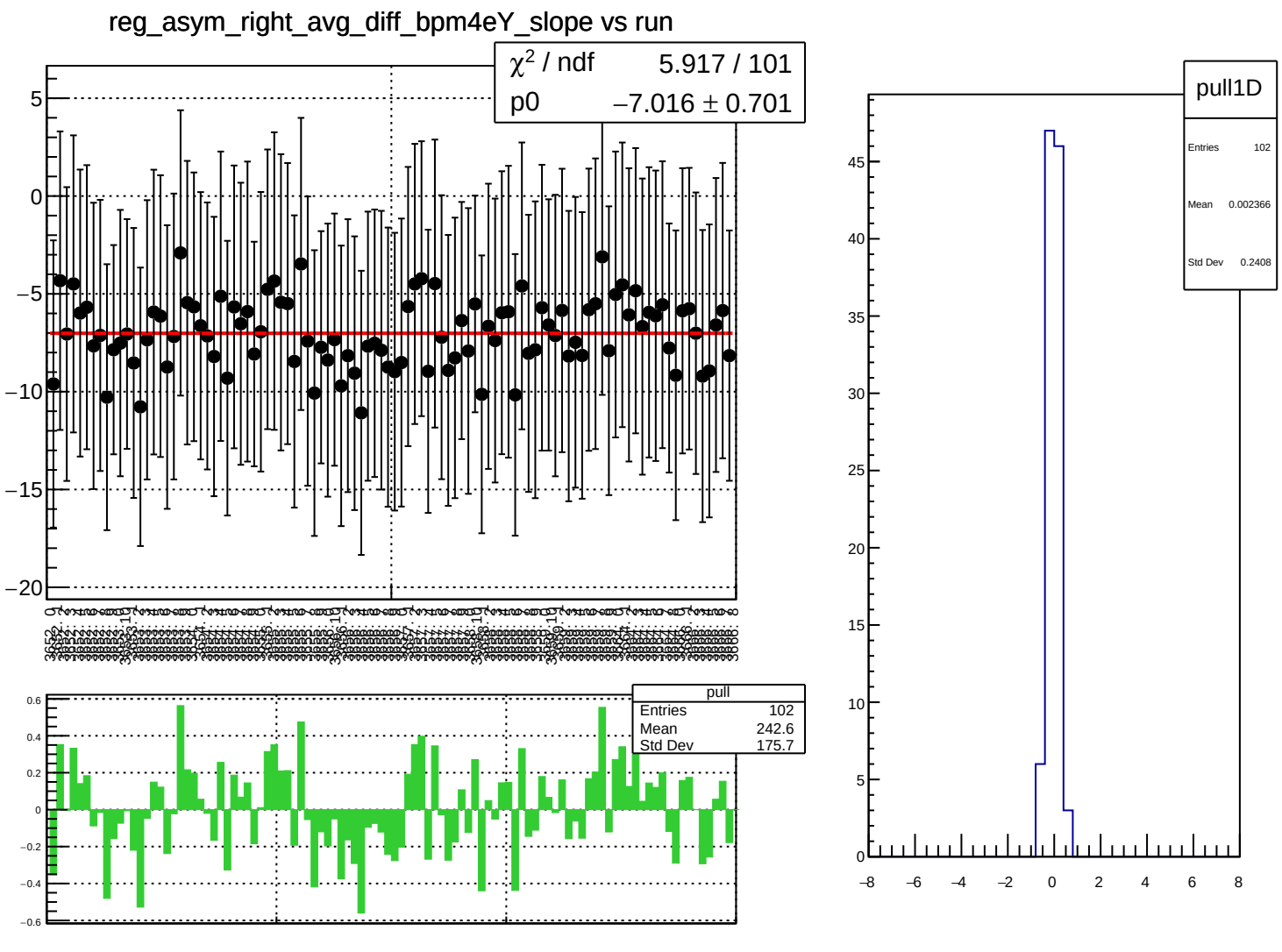

pull1D
Entries 102
Mean 0.0009356
Std Dev 0.2288
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

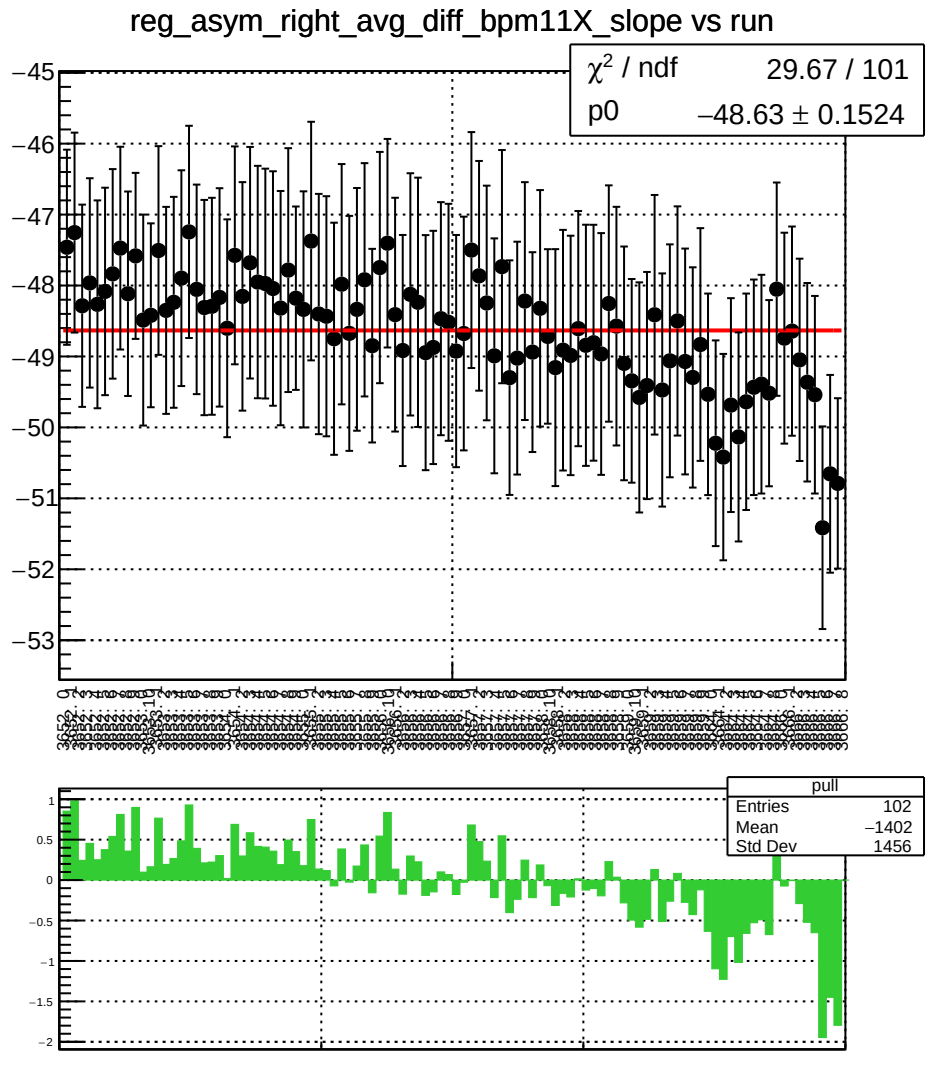

reg_asym_right_avg_diff_bpm4aY_slope vs run
χ² / ndf 6.207 / 101
p0 11.68 ± 0.4456
pull
Entries 102
Mean −225.2
Std Dev 281.9

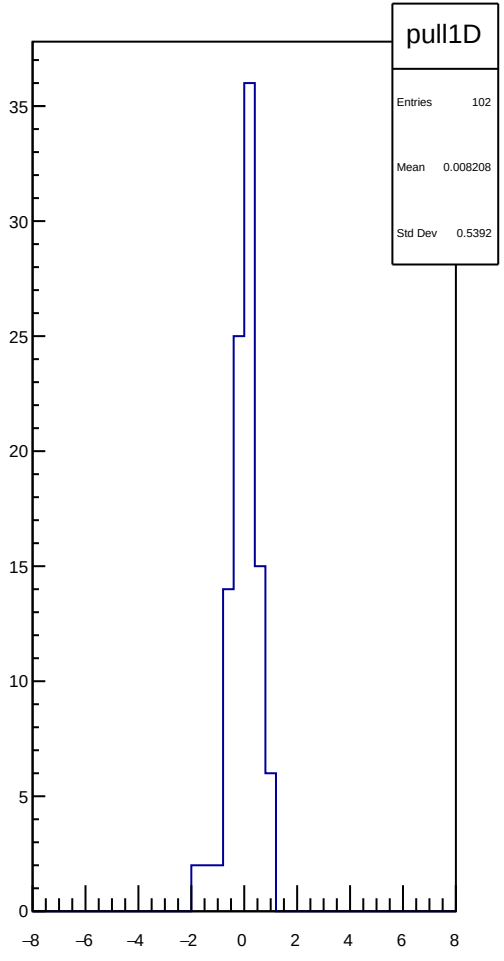

pull1D
Entries 102
Mean −0.001936
Std Dev 0.2467

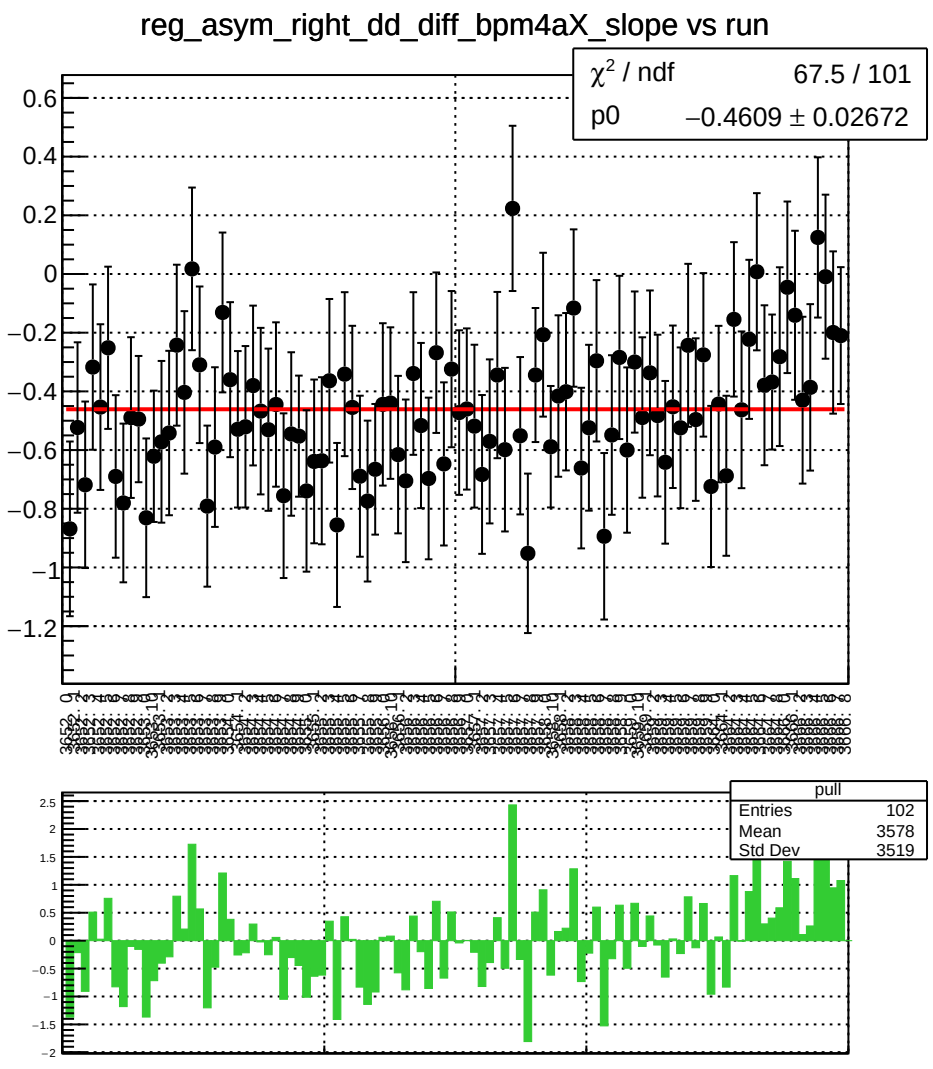

reg_asym_right_avg_diff_bpm4eX_slope vs run
χ² / ndf 56.23 / 101
p0 42.8 ± 0.1185
pull
Entries 102
Mean −4900
Std Dev 4937

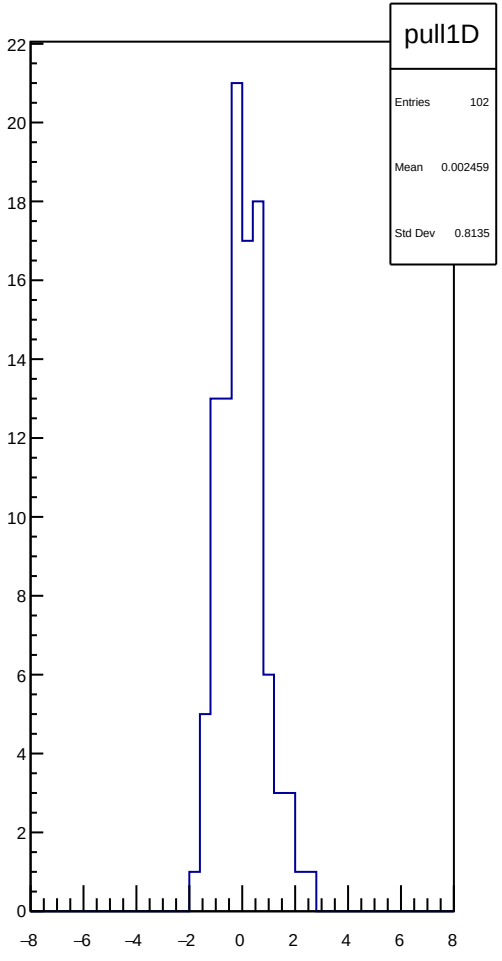

pull1D
Entries 102
Mean 0.001643
Std Dev 0.7425

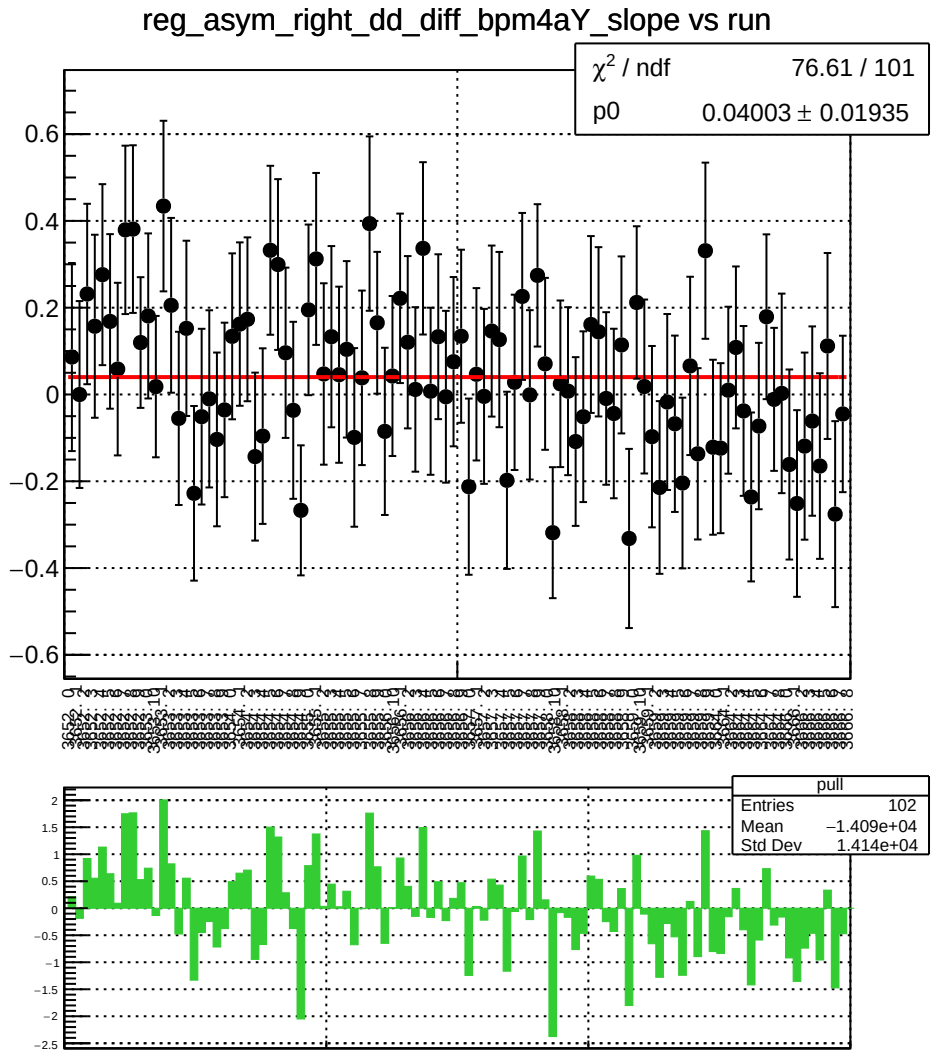

reg_asym_right_avg_diff_bpm4eY_slope vs run
χ² / ndf 5.917 / 101
p0 −7.016 ± 0.701
pull
Entries 102
Mean 242.6
Std Dev 175.7
pull1D
Entries 102
Mean 0.002366
Std Dev 0.2408

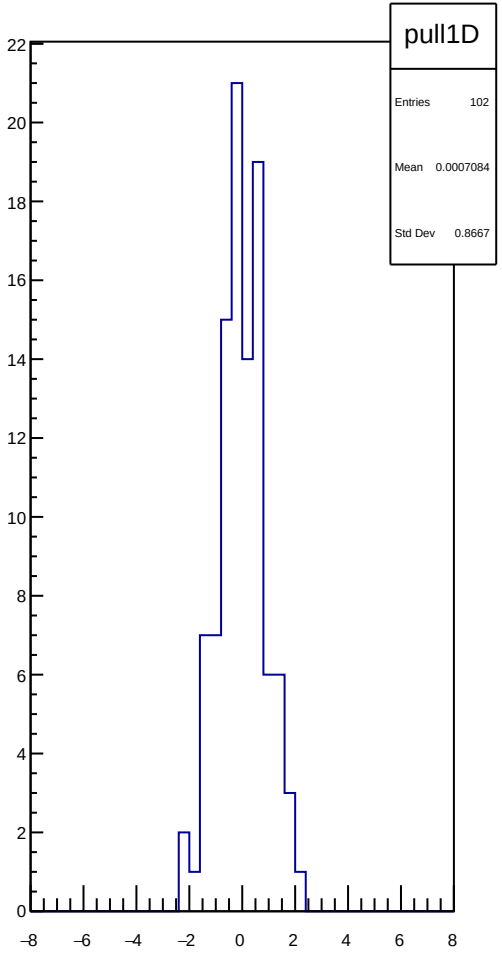

reg_asym_right_avg_diff_bpm11X_slope vs run
χ² / ndf 29.67 / 101
p0 −48.63 ± 0.1524
pull
Entries 102
Mean −1402
Std Dev 1456

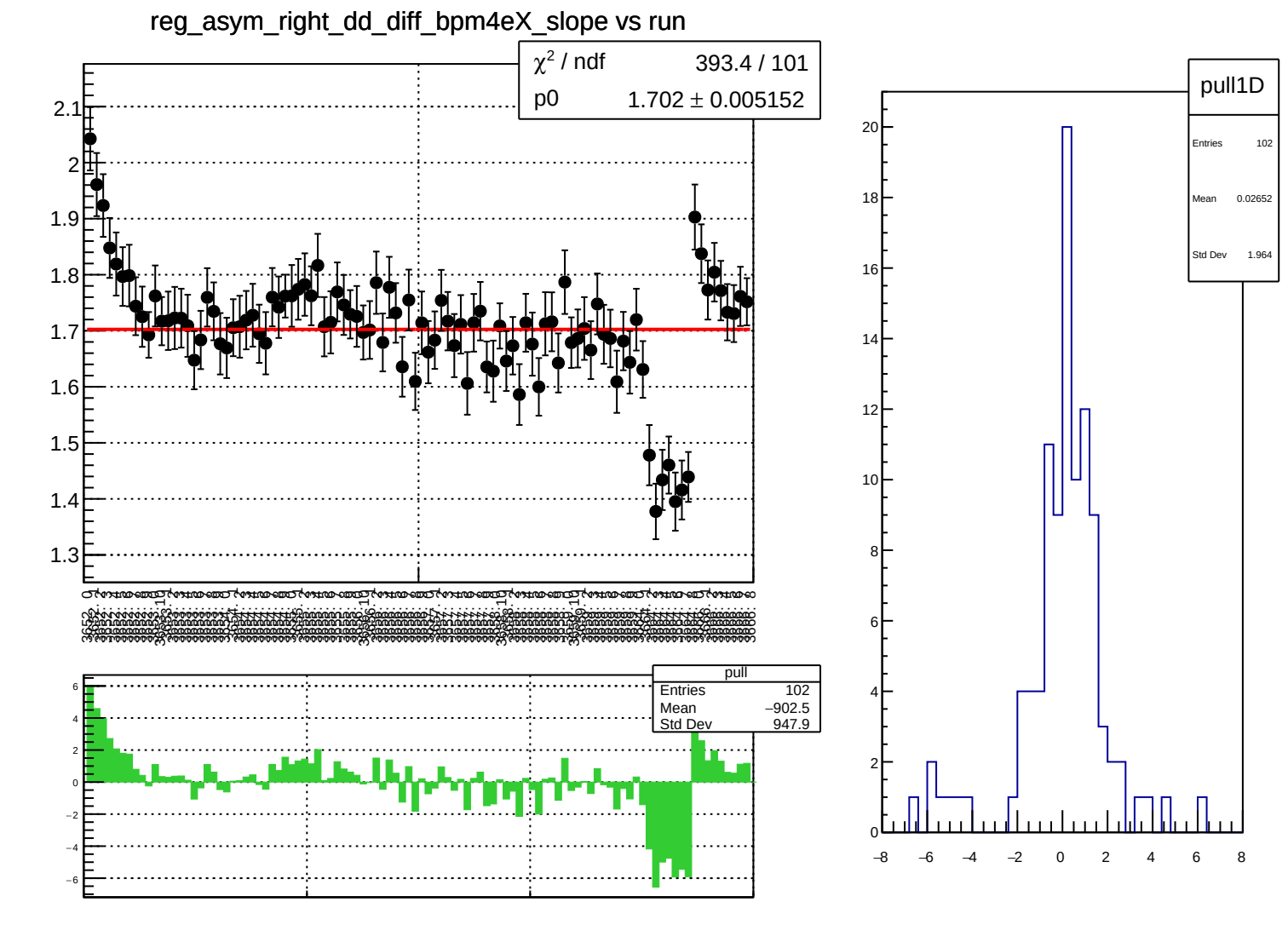

pull1D
Entries 102
Mean 0.008208
Std Dev 0.5392

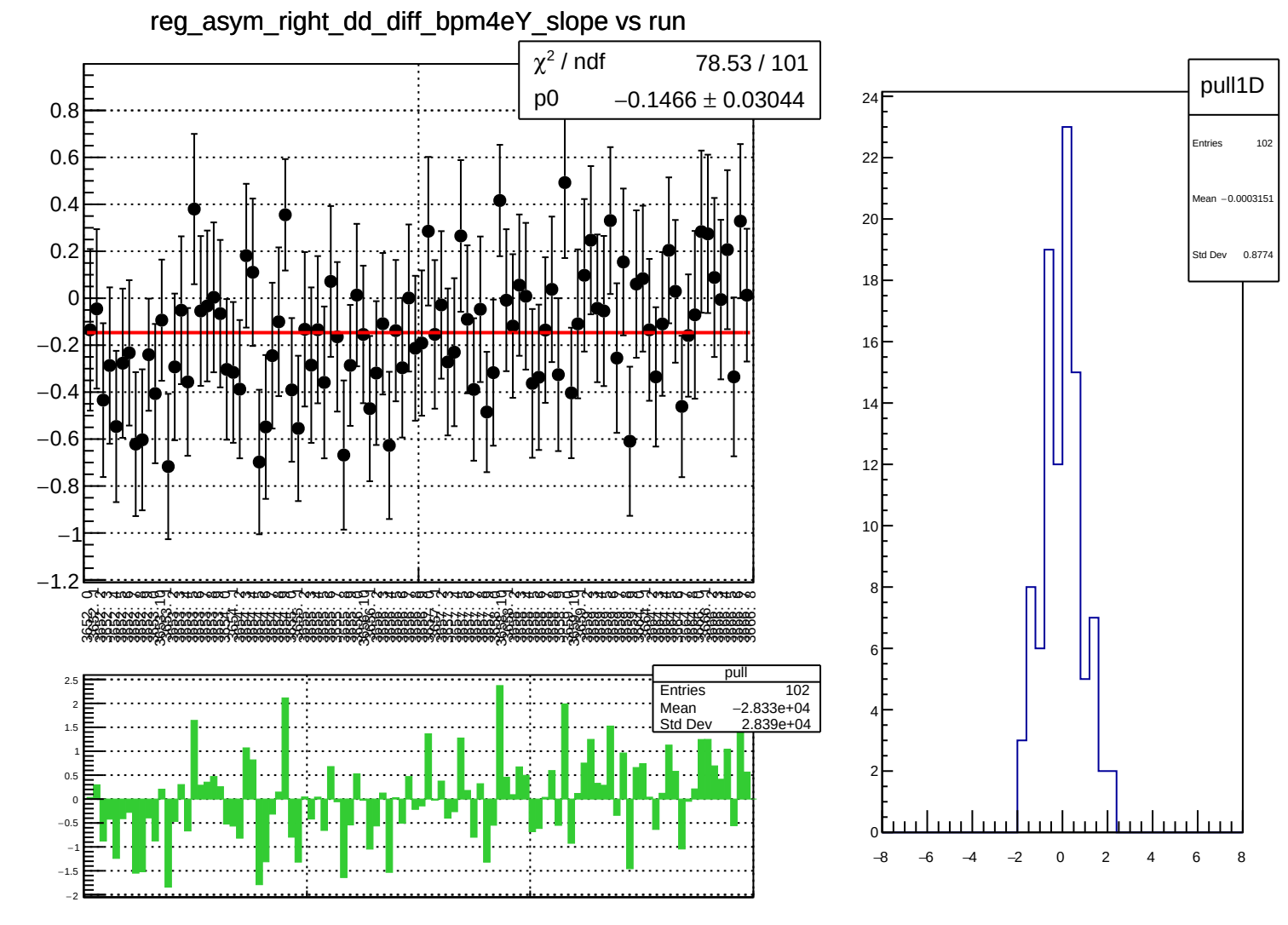

reg_asym_right_dd_diff_bpm4aX_slope vs run
χ² / ndf 67.5 / 101
p0 −0.4609 ± 0.02672
pull
Entries 102
Mean 3578
Std Dev 3519

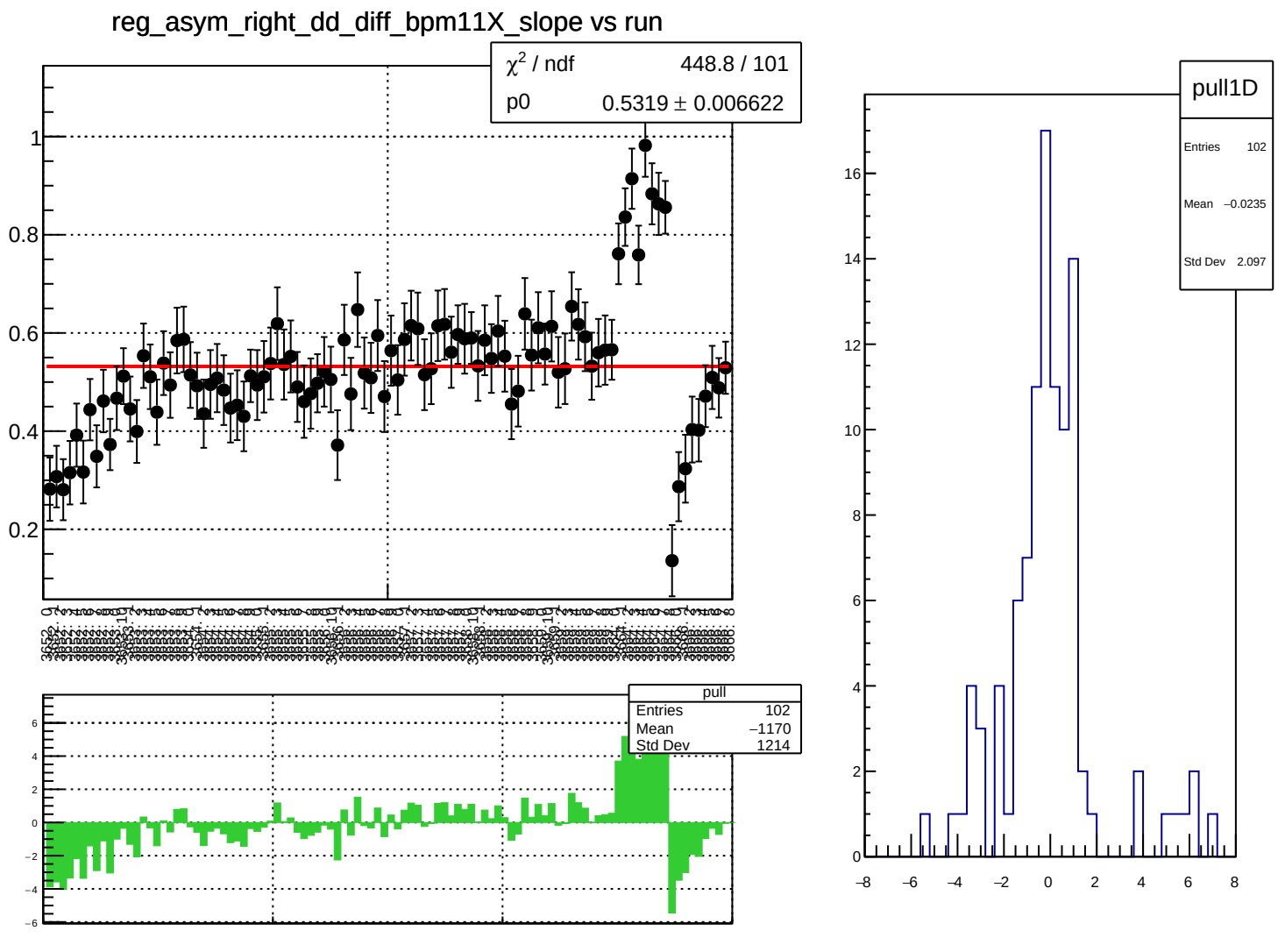

pull1D
Entries 102
Mean 0.002459
Std Dev 0.8135

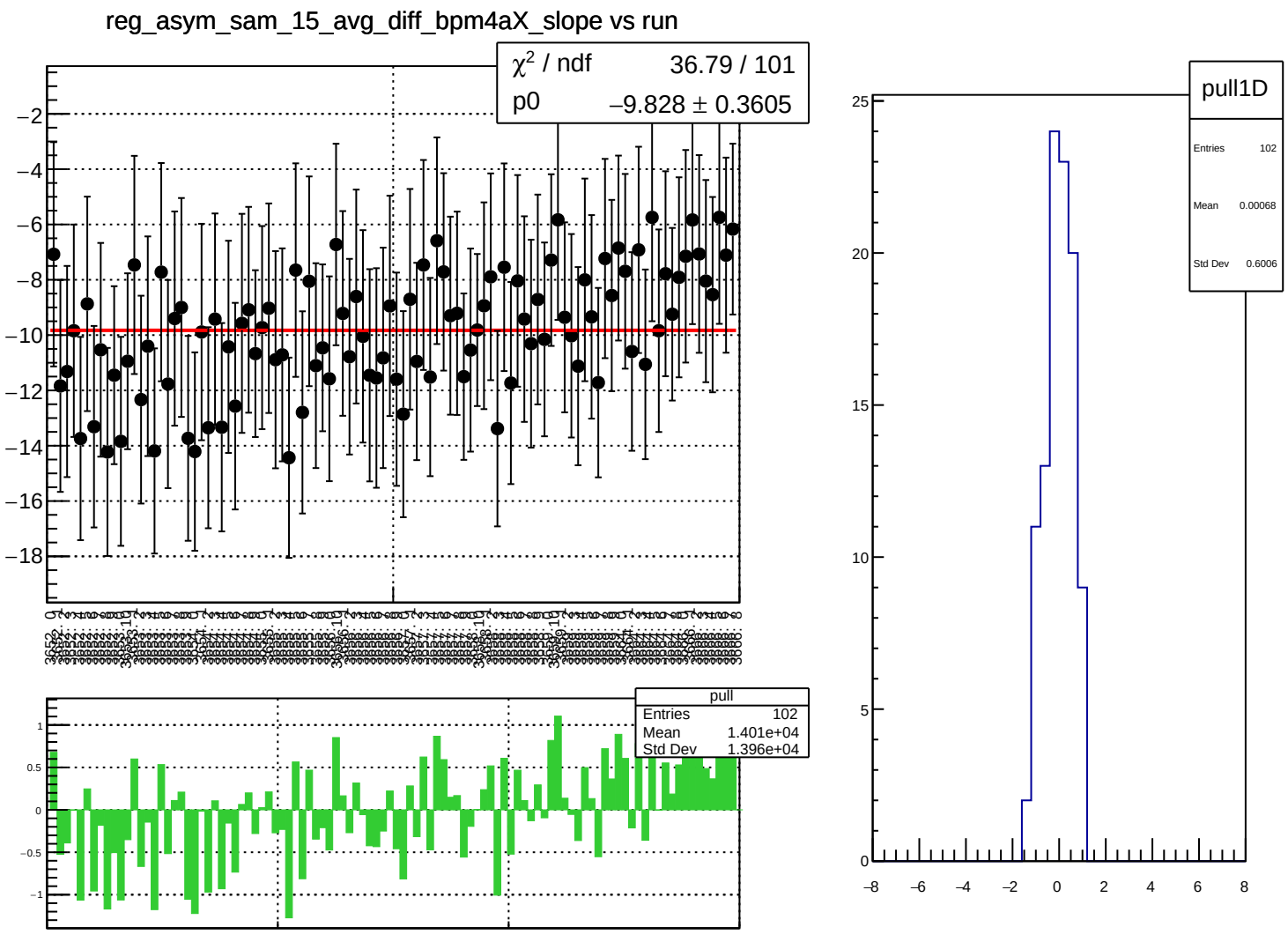

reg_asym_right_dd_diff_bpm4aY_slope vs run
χ² / ndf 76.61 / 101
p0 0.04003 ± 0.01935
pull
Entries 102
Mean −1.409e+04
Std Dev 1.414e+04

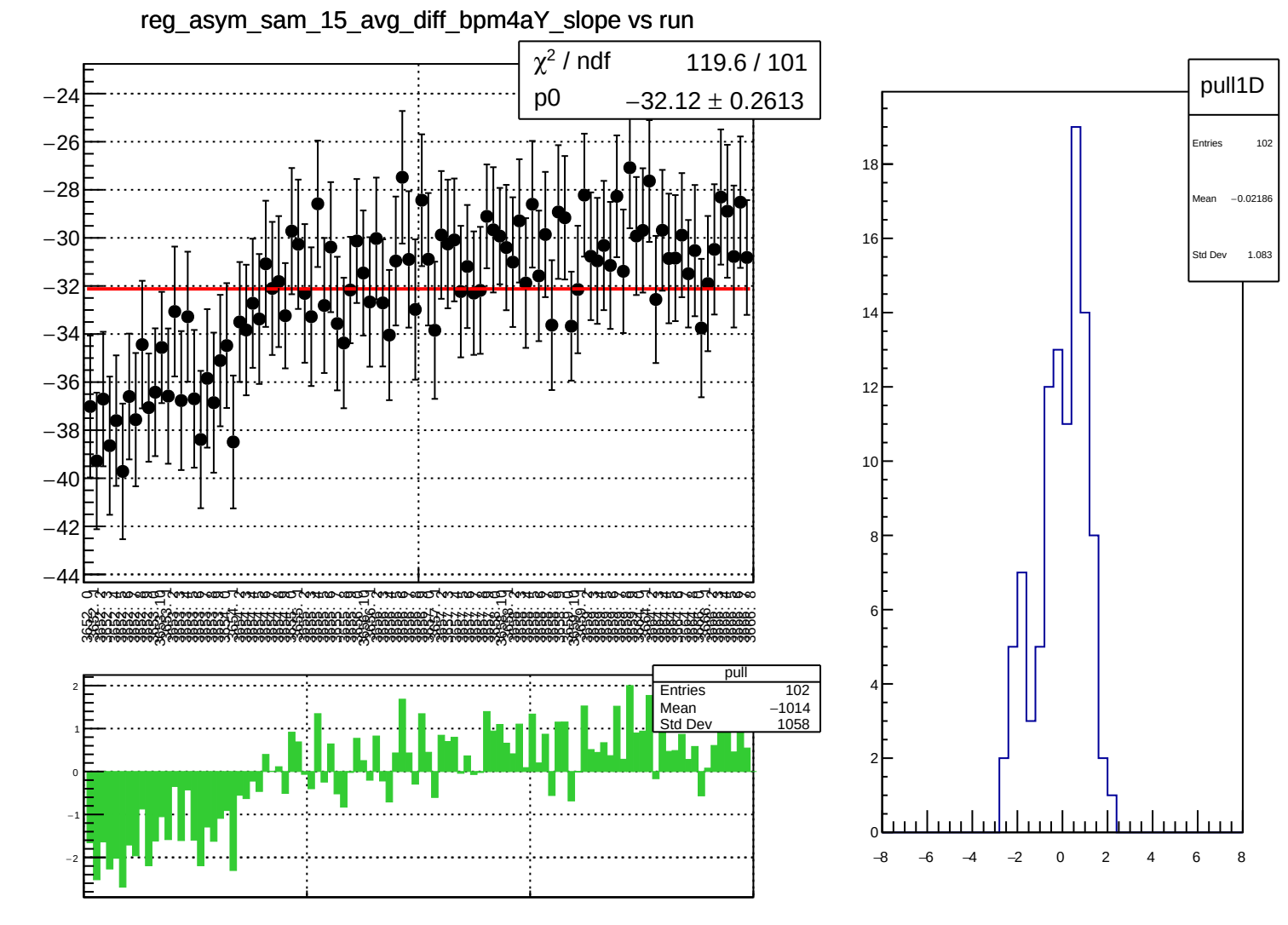

pull1D
Entries 102
Mean 0.0007084
Std Dev 0.8667

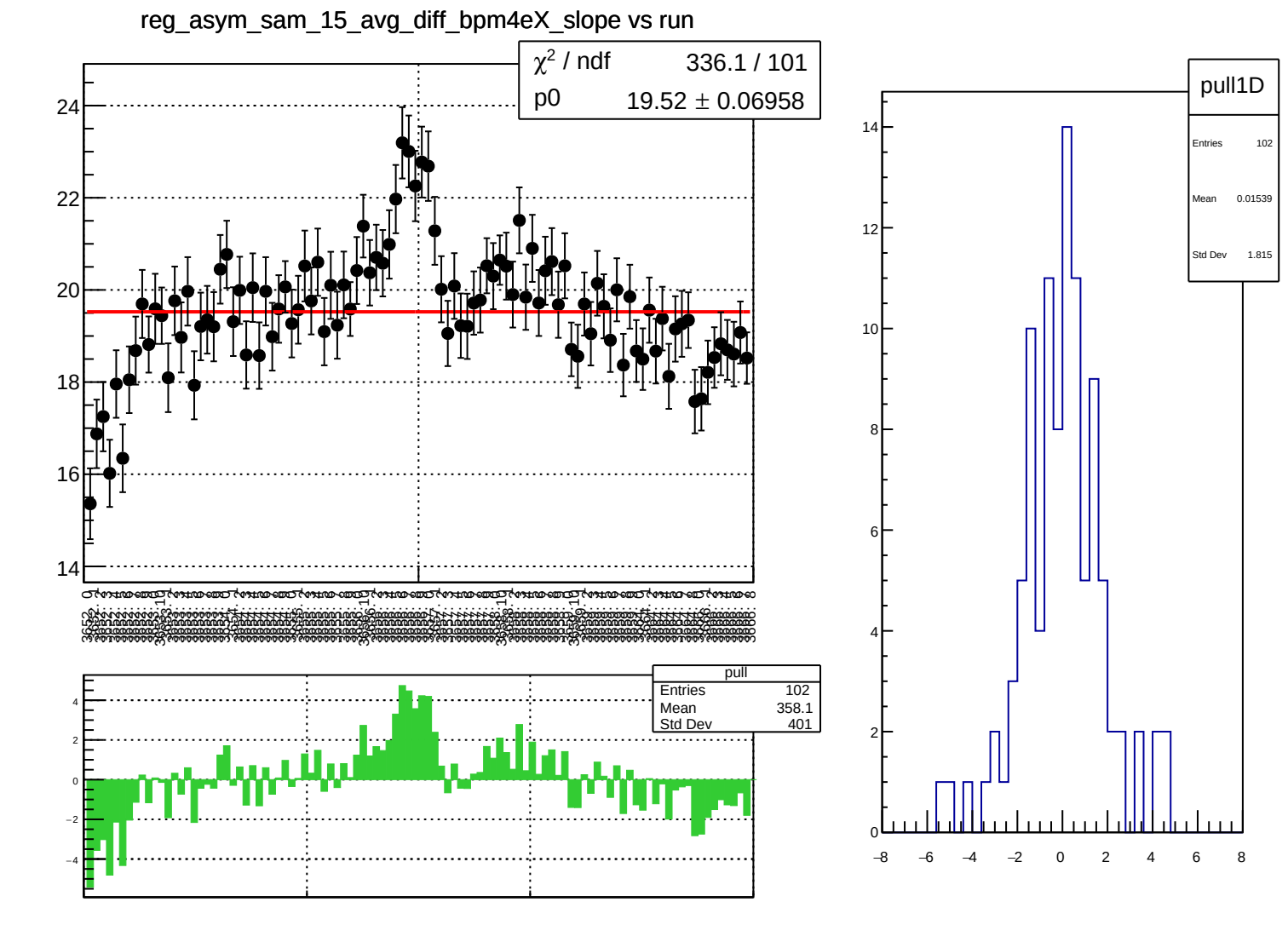

reg_asym_right_dd_diff_bpm4eX_slope vs run
χ² / ndf 393.4 / 101
p0 1.702 ± 0.005152
pull
Entries 102
Mean −902.5
Std Dev 947.9
pull1D
Entries 102
Mean 0.02652
Std Dev 1.964

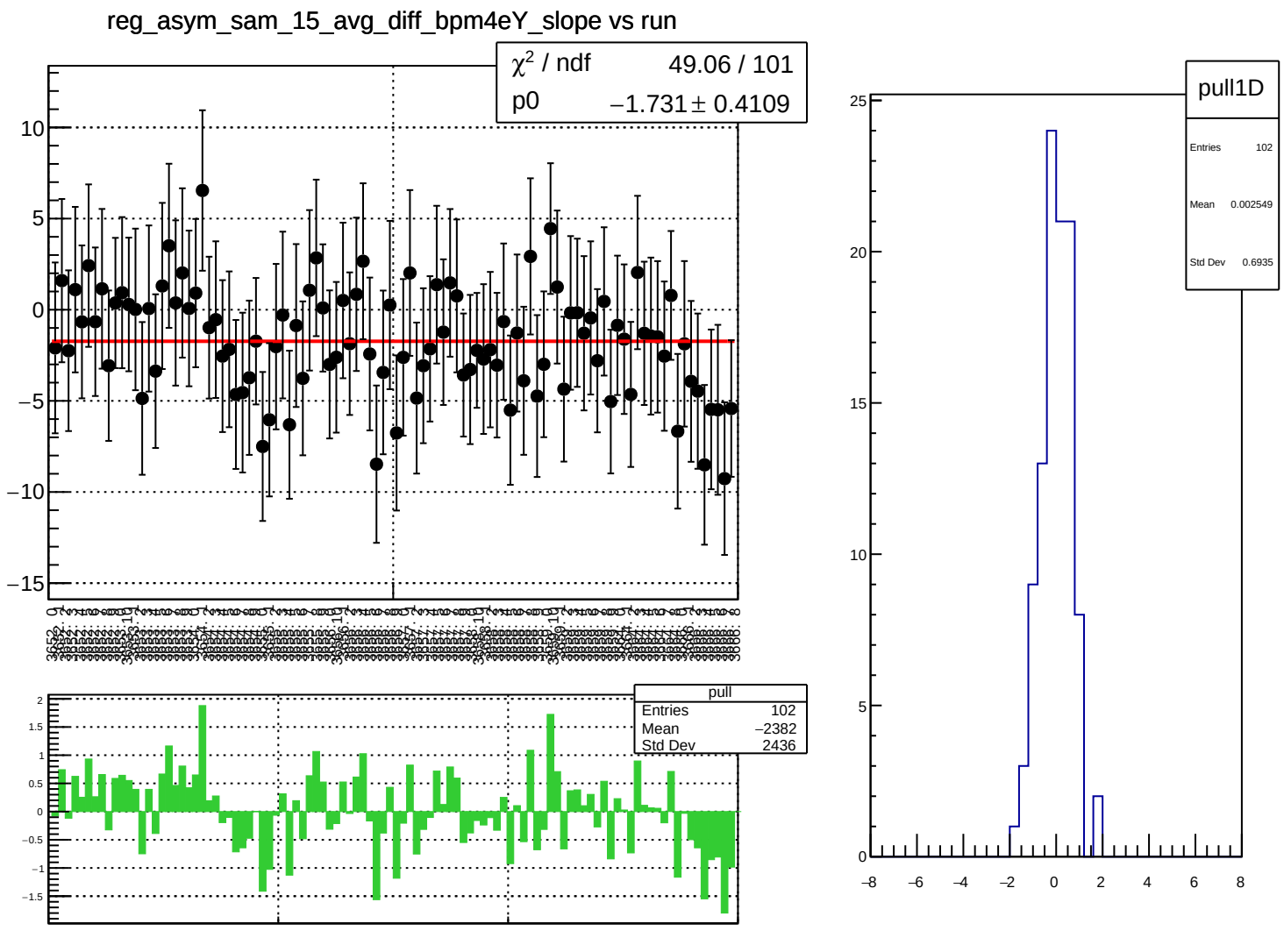

reg_asym_right_dd_diff_bpm4eY_slope vs run
χ² / ndf 78.53 / 101
p0 −0.1466 ± 0.03044
pull
Entries 102
Mean −2.833e+04
Std Dev 2.839e+04
pull1D
Entries 102
Mean −0.0003151
Std Dev 0.8774

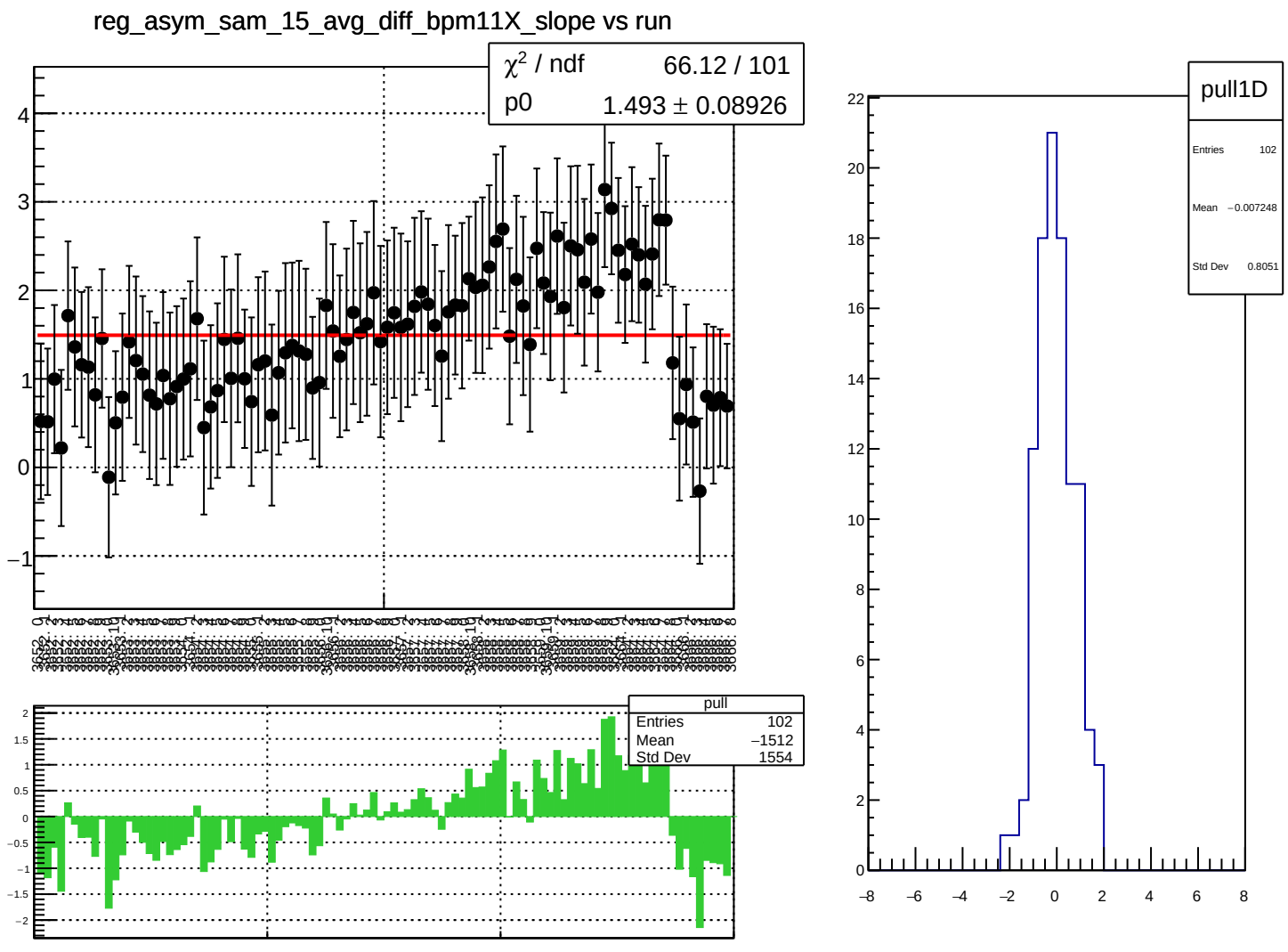

reg_asym_right_dd_diff_bpm11X_slope vs run
χ² / ndf 448.8 / 101
p0 0.5319 ± 0.006622
pull
Entries 102
Mean −1170
Std Dev 1214
pull1D
Entries 102
Mean −0.0235
Std Dev 2.097

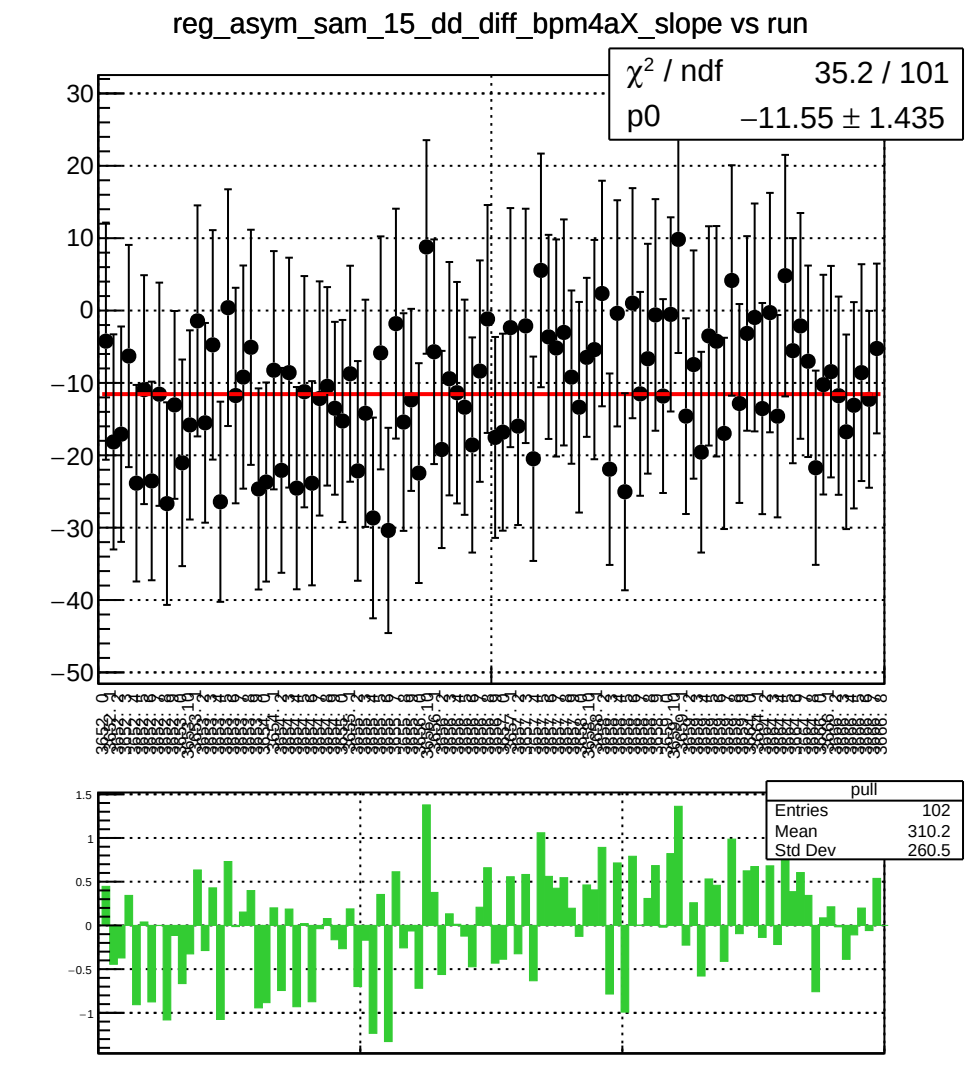

reg_asym_sam_15_avg_diff_bpm4aX_slope vs run
χ² / ndf 36.79 / 101
p0 −9.828 ± 0.3605
pull
Entries 102
Mean 1.401e+04
Std Dev 1.396e+04
pull1D
Entries 102
Mean 0.00068
Std Dev 0.6006

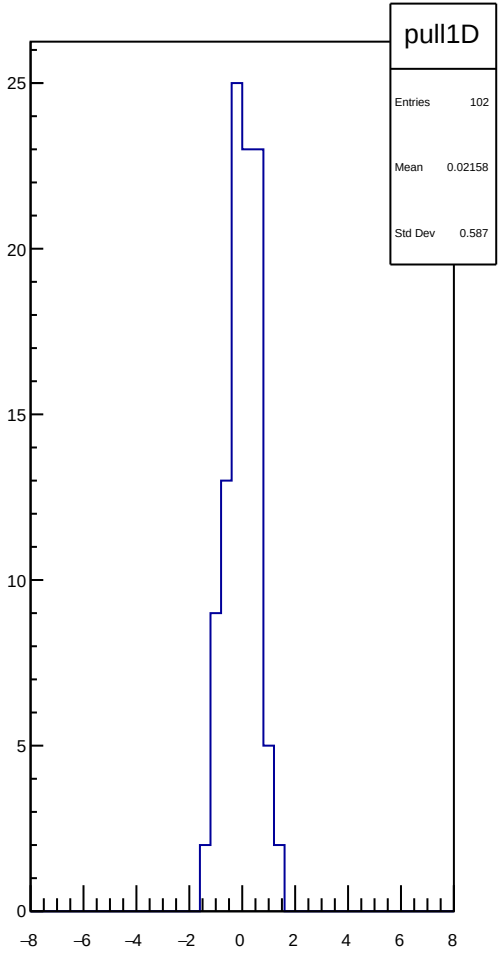

reg_asym_sam_15_avg_diff_bpm4aY_slope vs run
χ² / ndf 119.6 / 101
p0 −32.12 ± 0.2613
pull
Entries 102
Mean −1014
Std Dev 1058
pull1D
Entries 102
Mean −0.02186
Std Dev 1.083

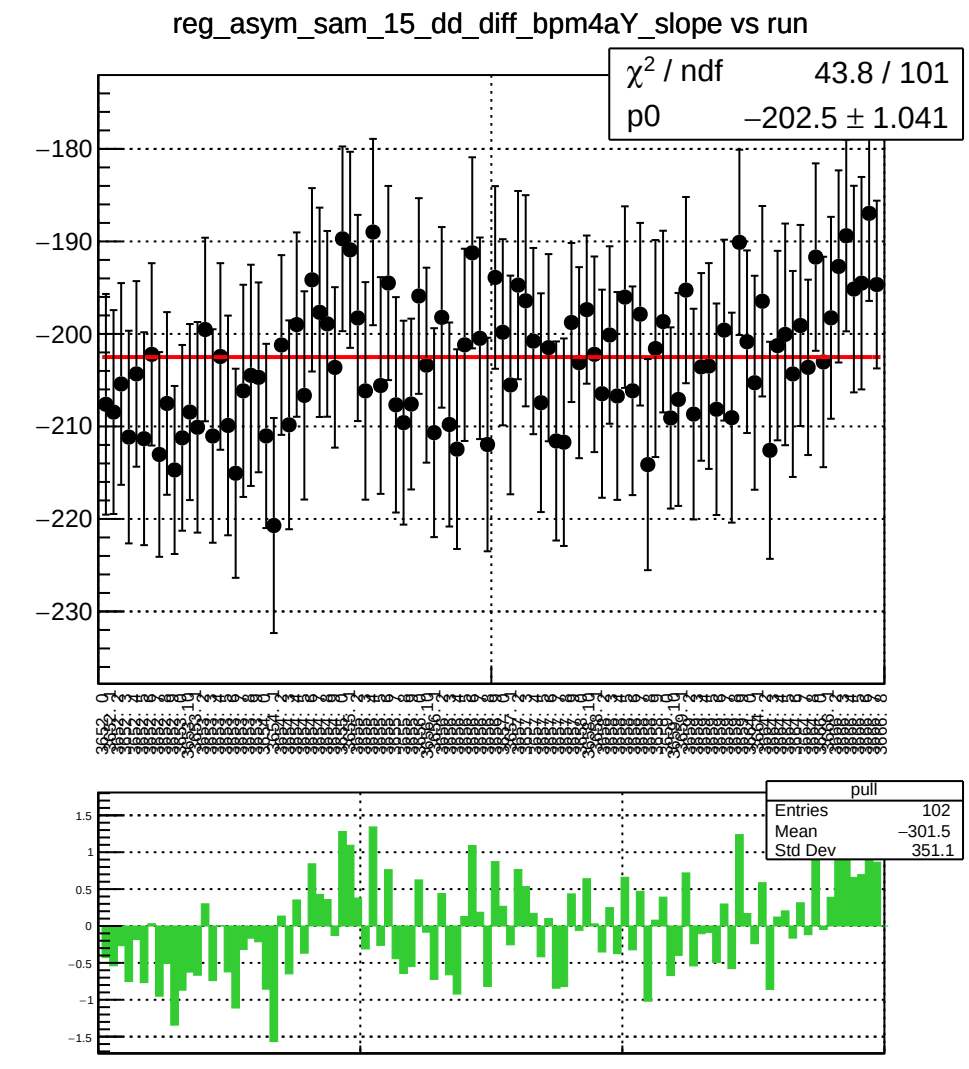

reg_asym_sam_15_avg_diff_bpm4eX_slope vs run
χ² / ndf 336.1 / 101
p0 19.52 ± 0.06958
pull
Entries 102
Mean 358.1
Std Dev 401
pull1D
Entries 102
Mean 0.01539
Std Dev 1.815

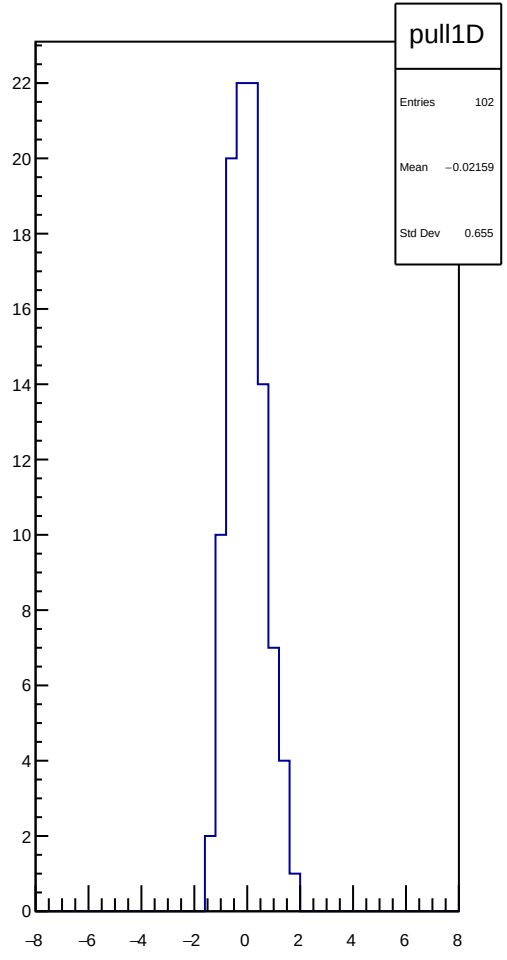

reg_asym_sam_15_avg_diff_bpm4eY_slope vs run
χ² / ndf 49.06 / 101
p0 −1.731 ± 0.4109
pull
Entries 102
Mean −2382
Std Dev 2436
pull1D
Entries 102
Mean 0.002549
Std Dev 0.6935

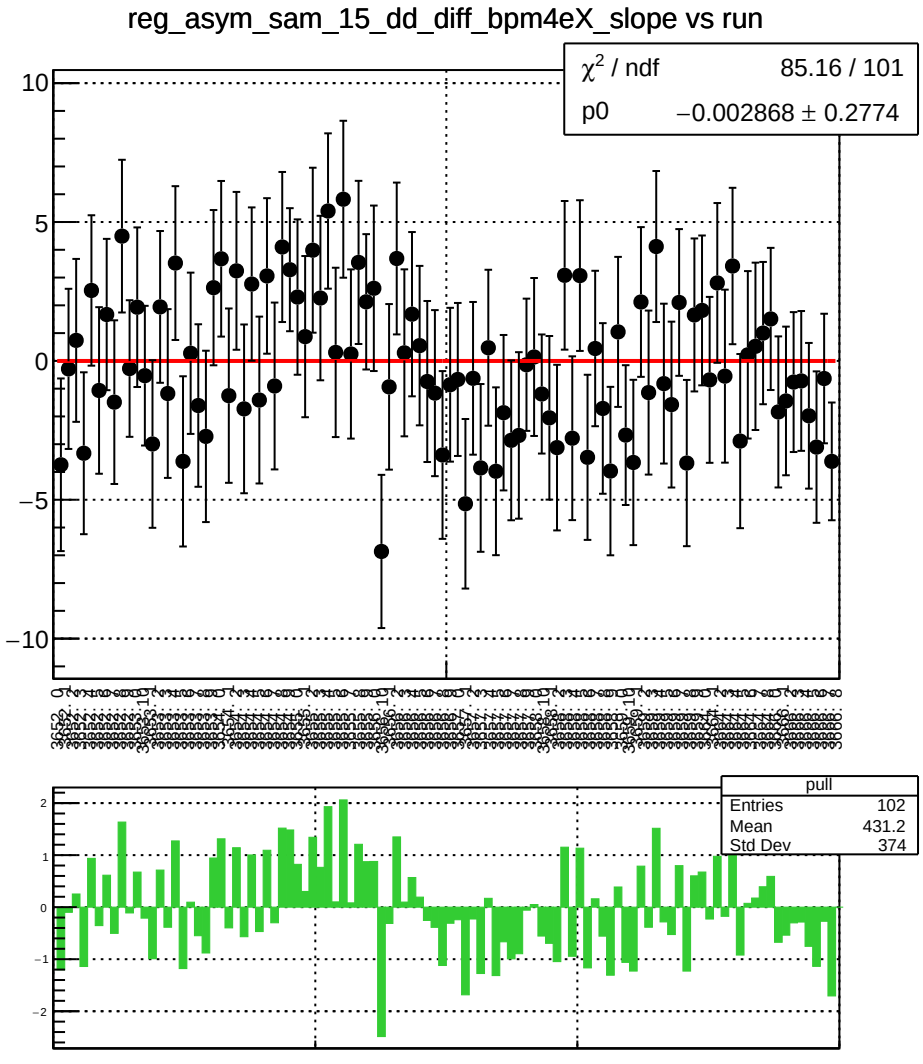

reg_asym_sam_15_avg_diff_bpm11X_slope vs run
χ² / ndf 66.12 / 101
p0 1.493 ± 0.08926
pull
Entries 102
Mean −1512
Std Dev 1554
pull1D
Entries 102
Mean −0.007248
Std Dev 0.8051

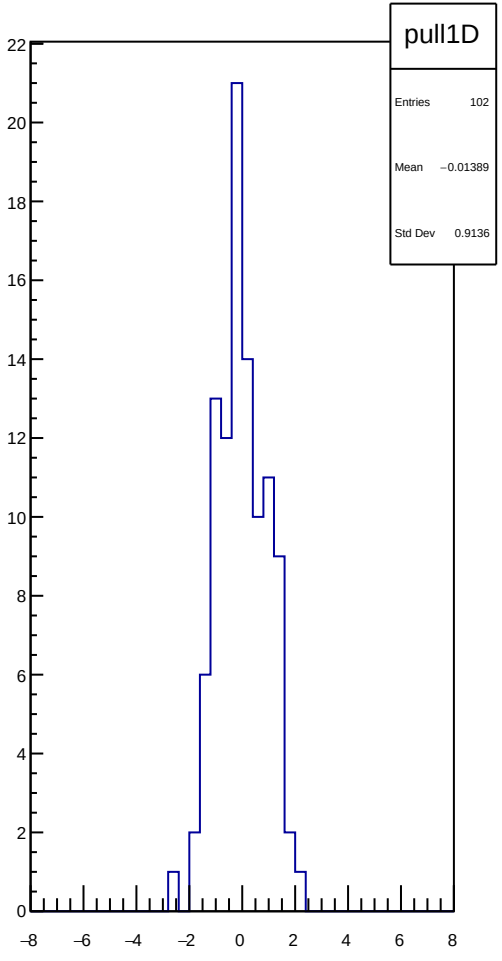

reg_asym_sam_15_dd_diff_bpm4aX_slope vs run
χ² / ndf 35.2 / 101
p0 −11.55 ± 1.435
pull
Entries 102
Mean 310.2
Std Dev 260.5

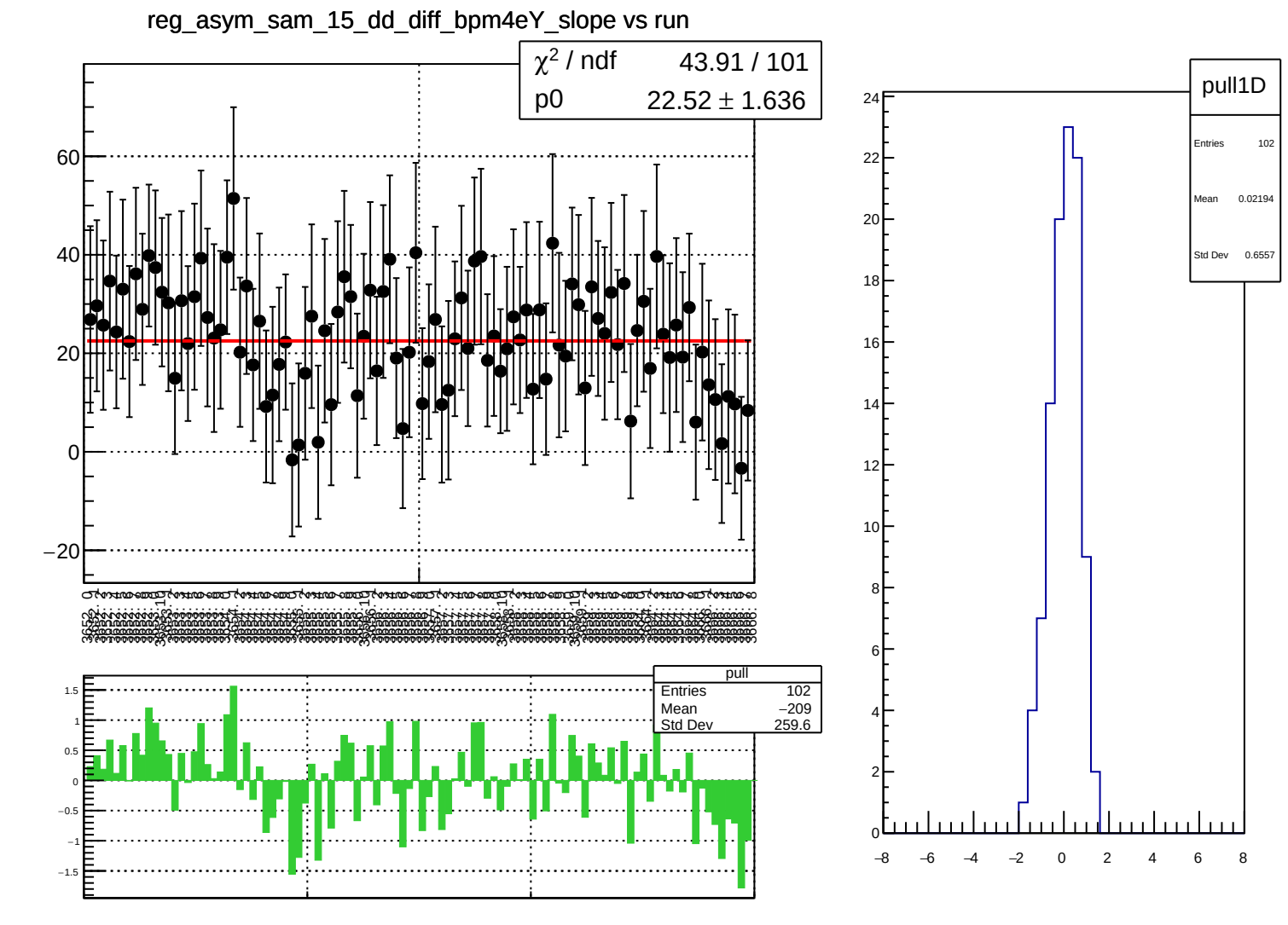

pull1D
Entries 102
Mean 0.02158
Std Dev 0.587

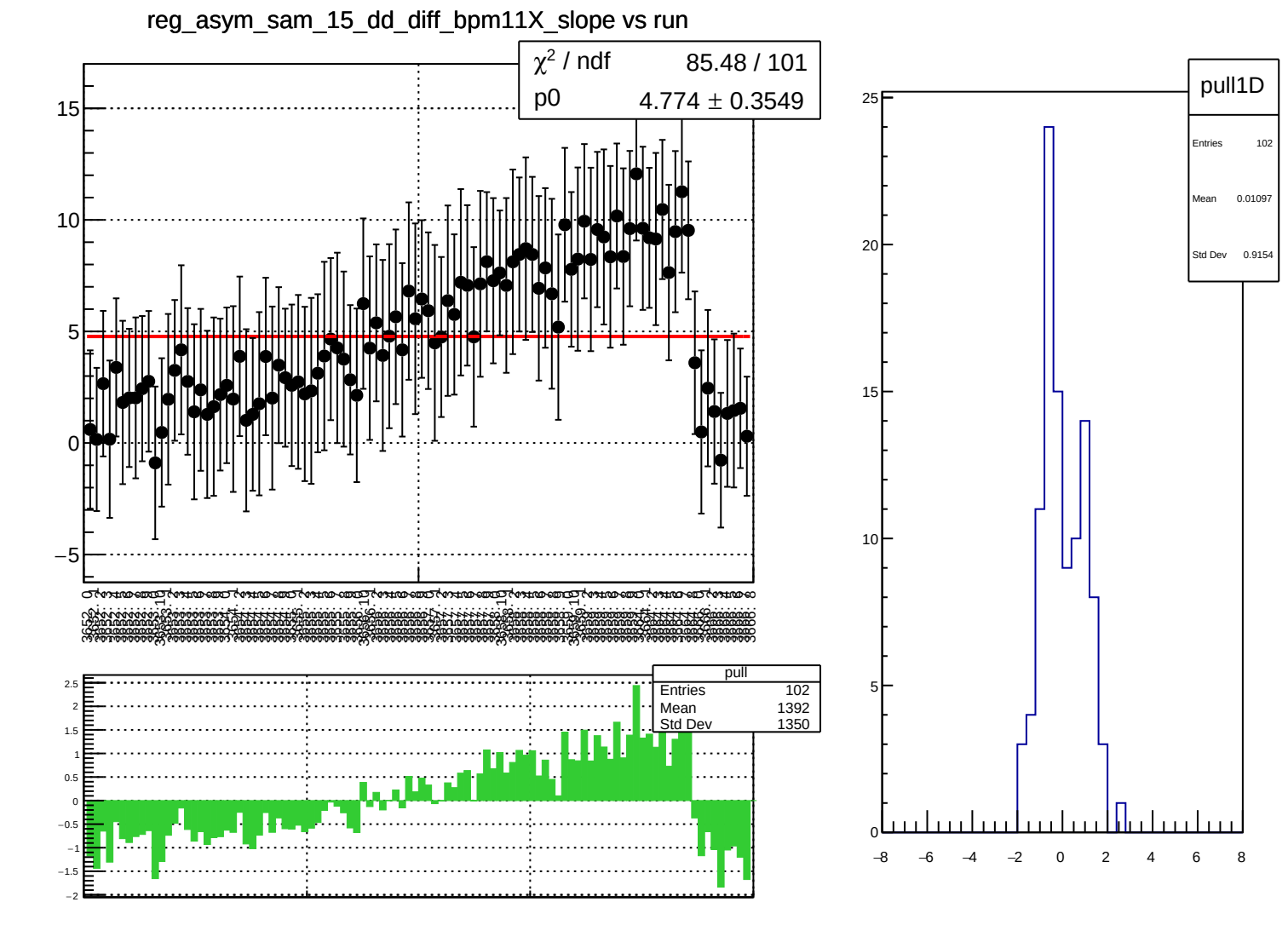

reg_asym_sam_15_dd_diff_bpm4aY_slope vs run
χ² / ndf 43.8 / 101
p0 −202.5 ± 1.041
−180
−190
−200
−210
−220
−230
pull
Entries 102
Mean −301.5
Std Dev 351.1
1.5
1
0.5
0
−0.5
−1
−1.5

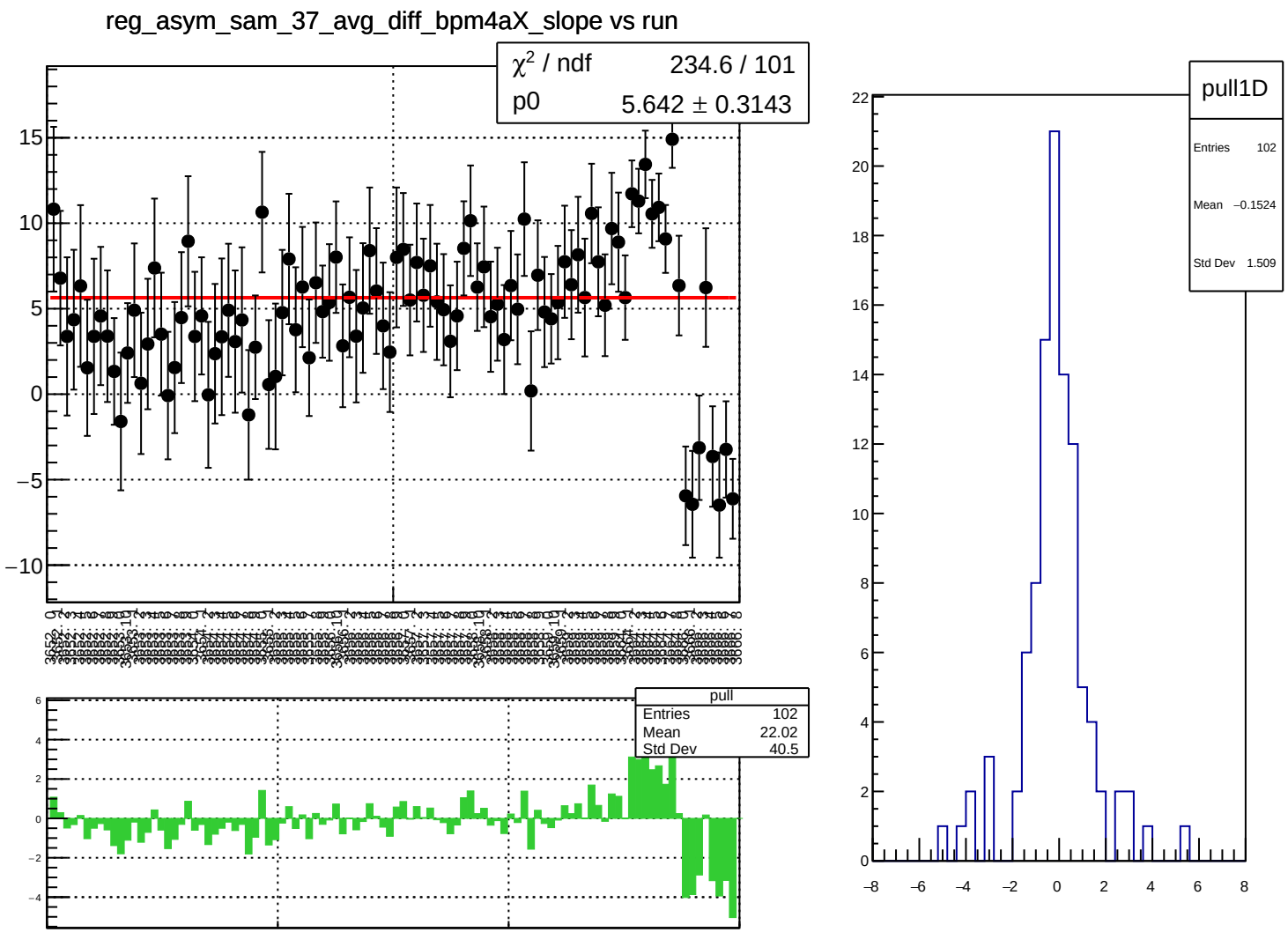

pull1D
Entries 102
Mean −0.02159
Std Dev 0.655
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

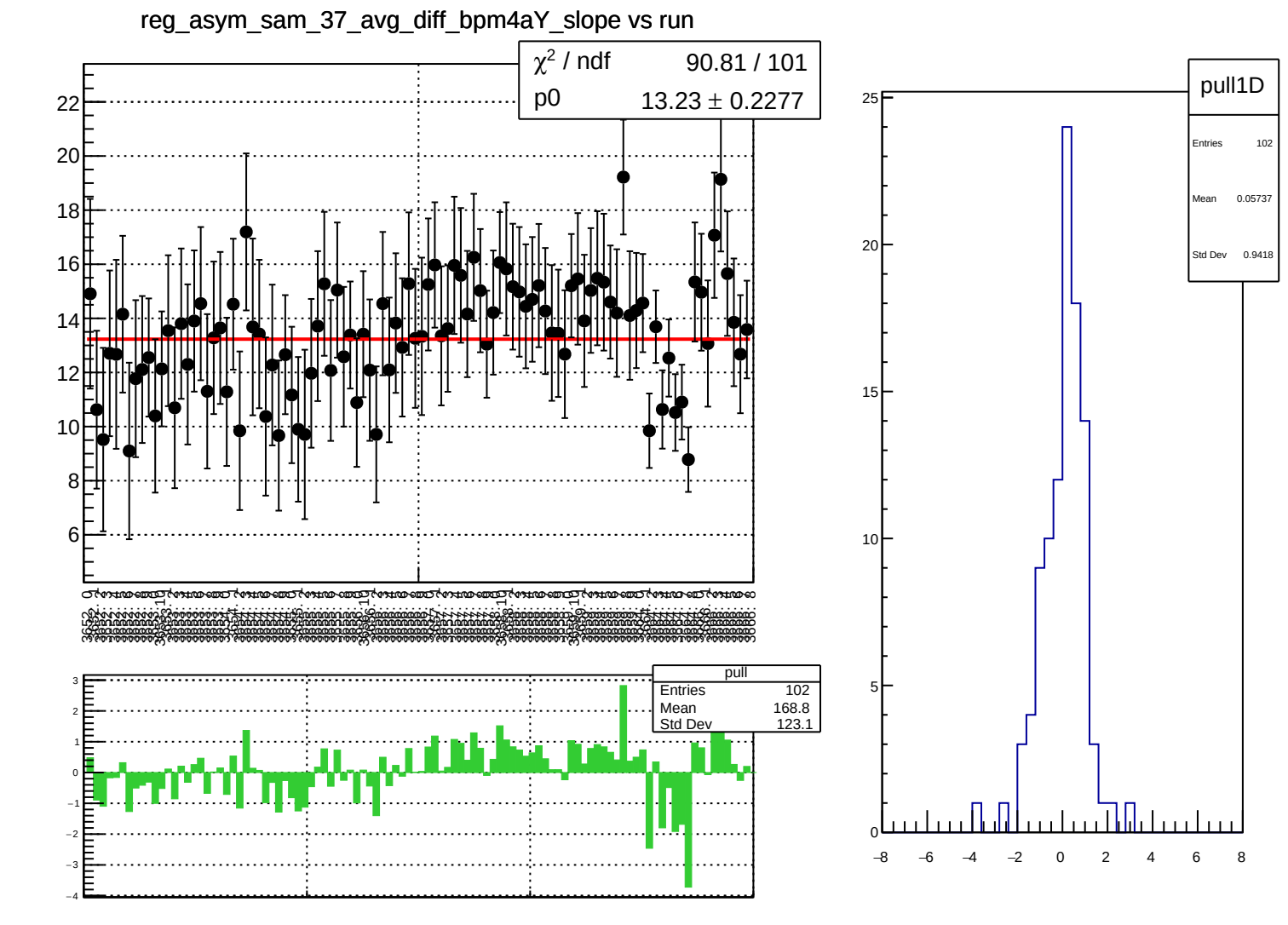

reg_asym_sam_15_dd_diff_bpm4eX_slope vs run
χ² / ndf 85.16 / 101
p0 −0.002868 ± 0.2774
pull
Entries 102
Mean 431.2
Std Dev 374

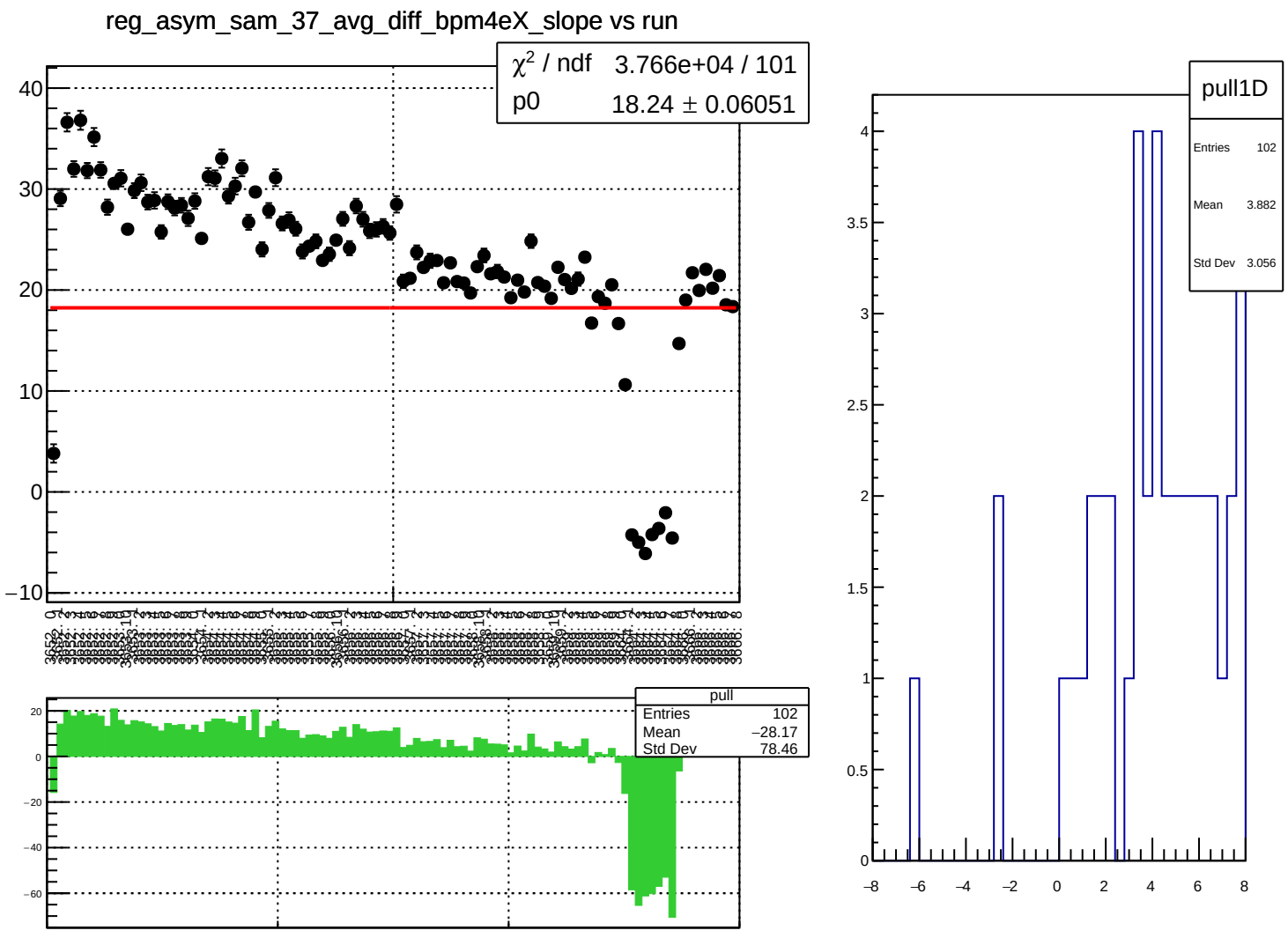

pull1D
Entries 102
Mean −0.01389
Std Dev 0.9136

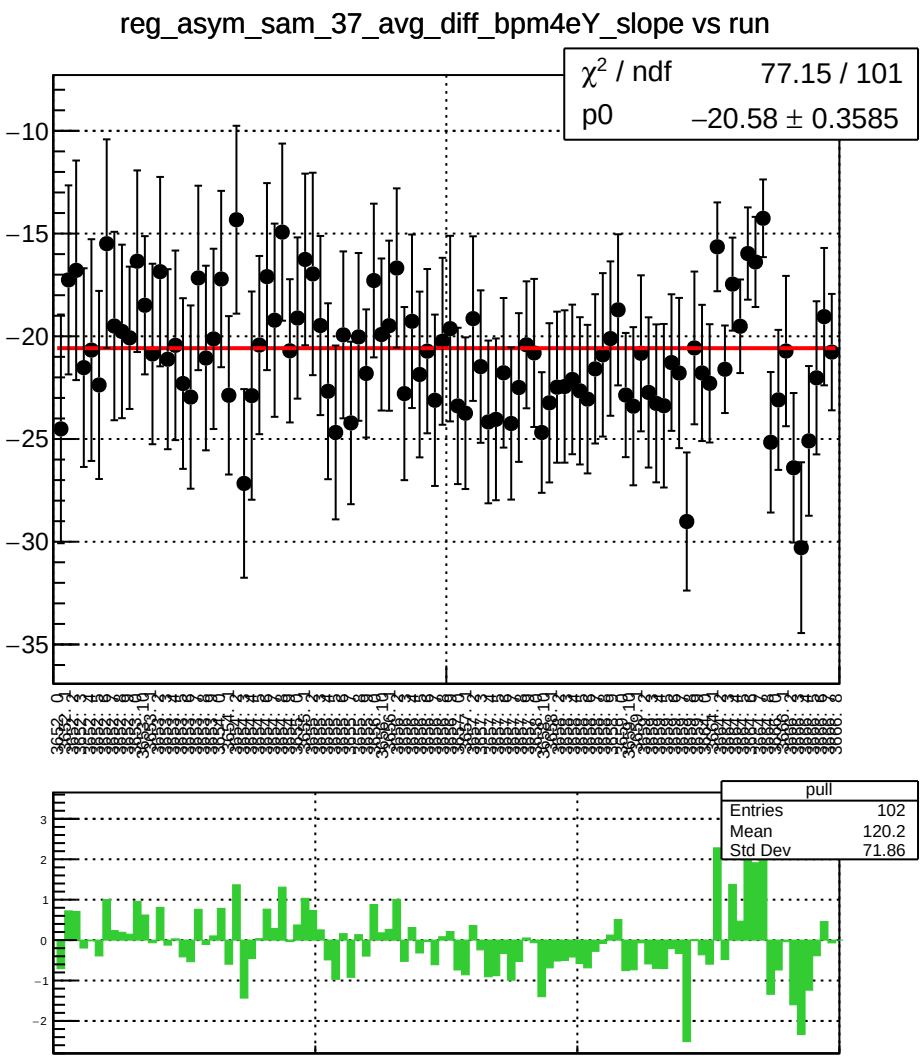

reg_asym_sam_15_dd_diff_bpm4eY_slope vs run
χ² / ndf 43.91 / 101
p0 22.52 ± 1.636
60
40
20
0
−20
pull
Entries 102
Mean −209
Std Dev 259.6
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 102
Mean 0.02194
Std Dev 0.6557
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

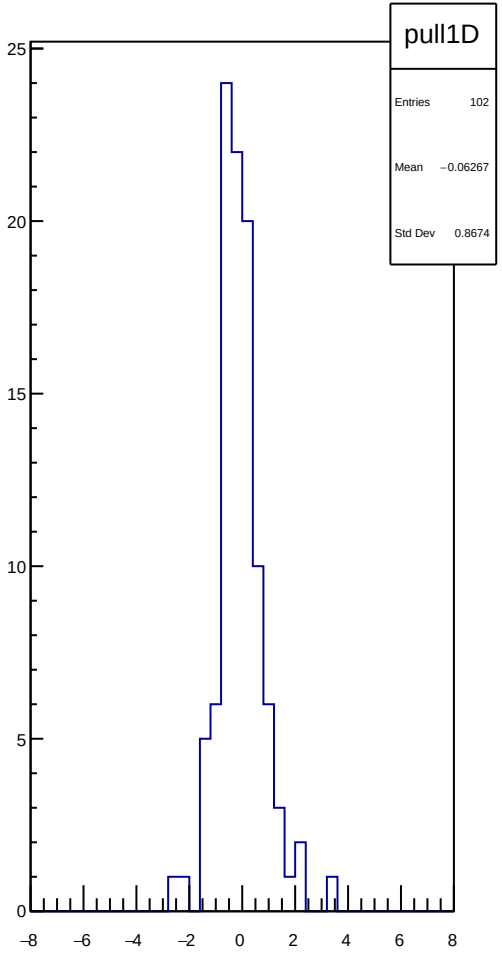

reg_asym_sam_15_dd_diff_bpm11X_slope vs run
χ² / ndf 85.48 / 101
p0 4.774 ± 0.3549
pull
Entries 102
Mean 1392
Std Dev 1350
pull1D
Entries 102
Mean 0.01097
Std Dev 0.9154

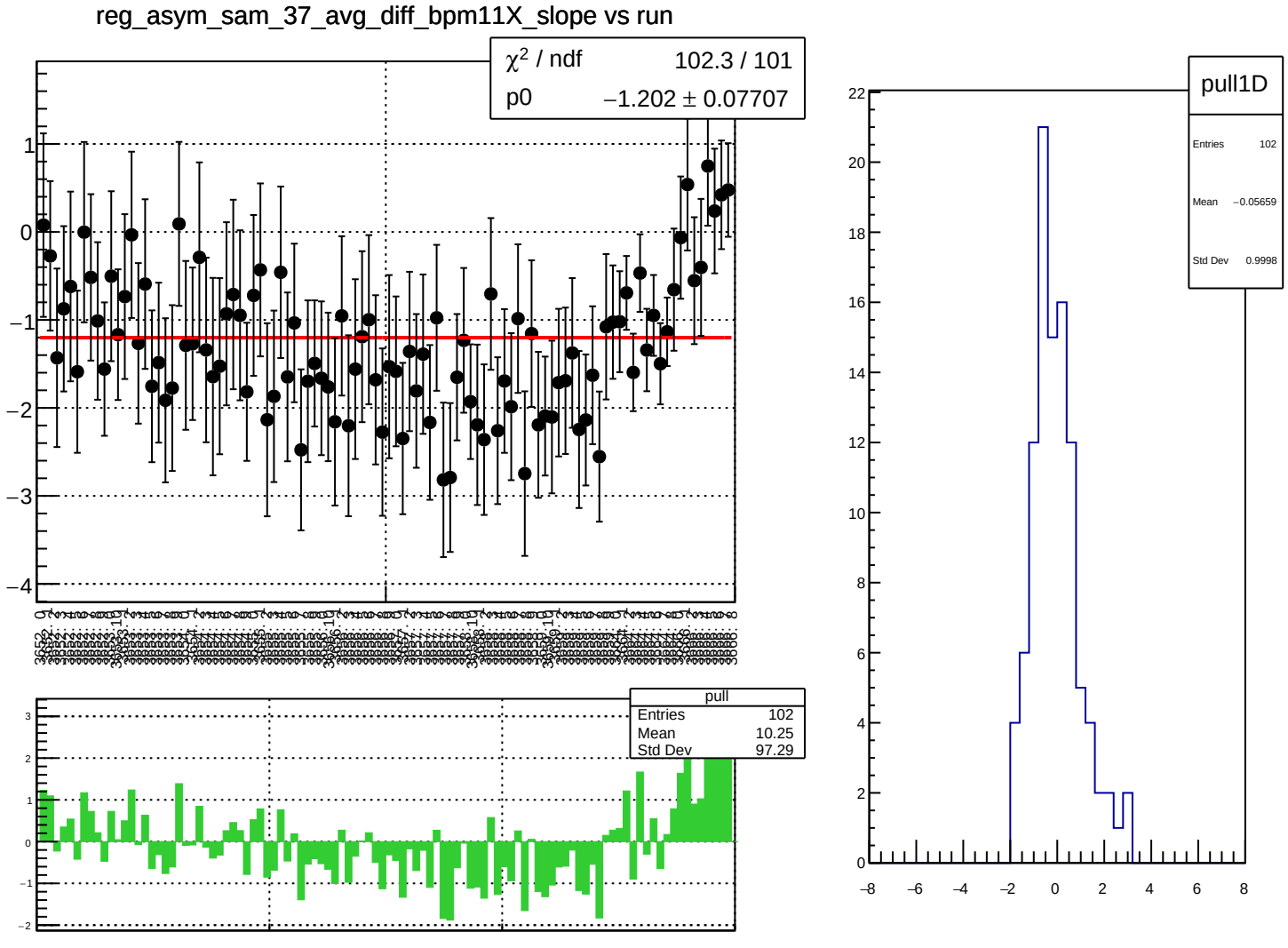

reg_asym_sam_37_avg_diff_bpm4aX_slope vs run
χ² / ndf 234.6 / 101
p0 5.642 ± 0.3143
pull
Entries 102
Mean 22.02
Std Dev 40.5
pull1D
Entries 102
Mean −0.1524
Std Dev 1.509

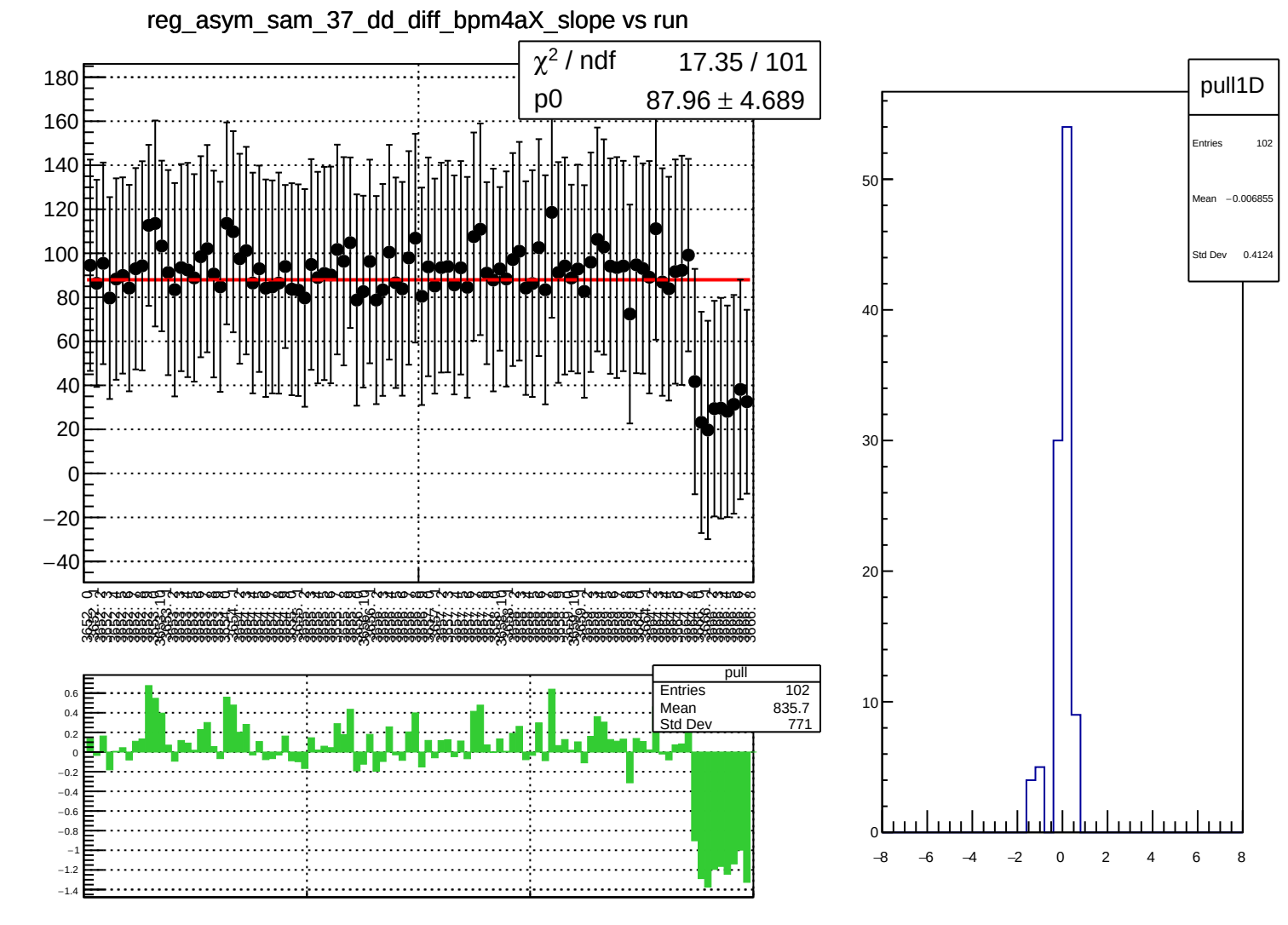

reg_asym_sam_37_avg_diff_bpm4aY_slope vs run
χ² / ndf 90.81 / 101
p0 13.23 ± 0.2277
pull
Entries 102
Mean 168.8
Std Dev 123.1
pull1D
Entries 102
Mean 0.05737
Std Dev 0.9418

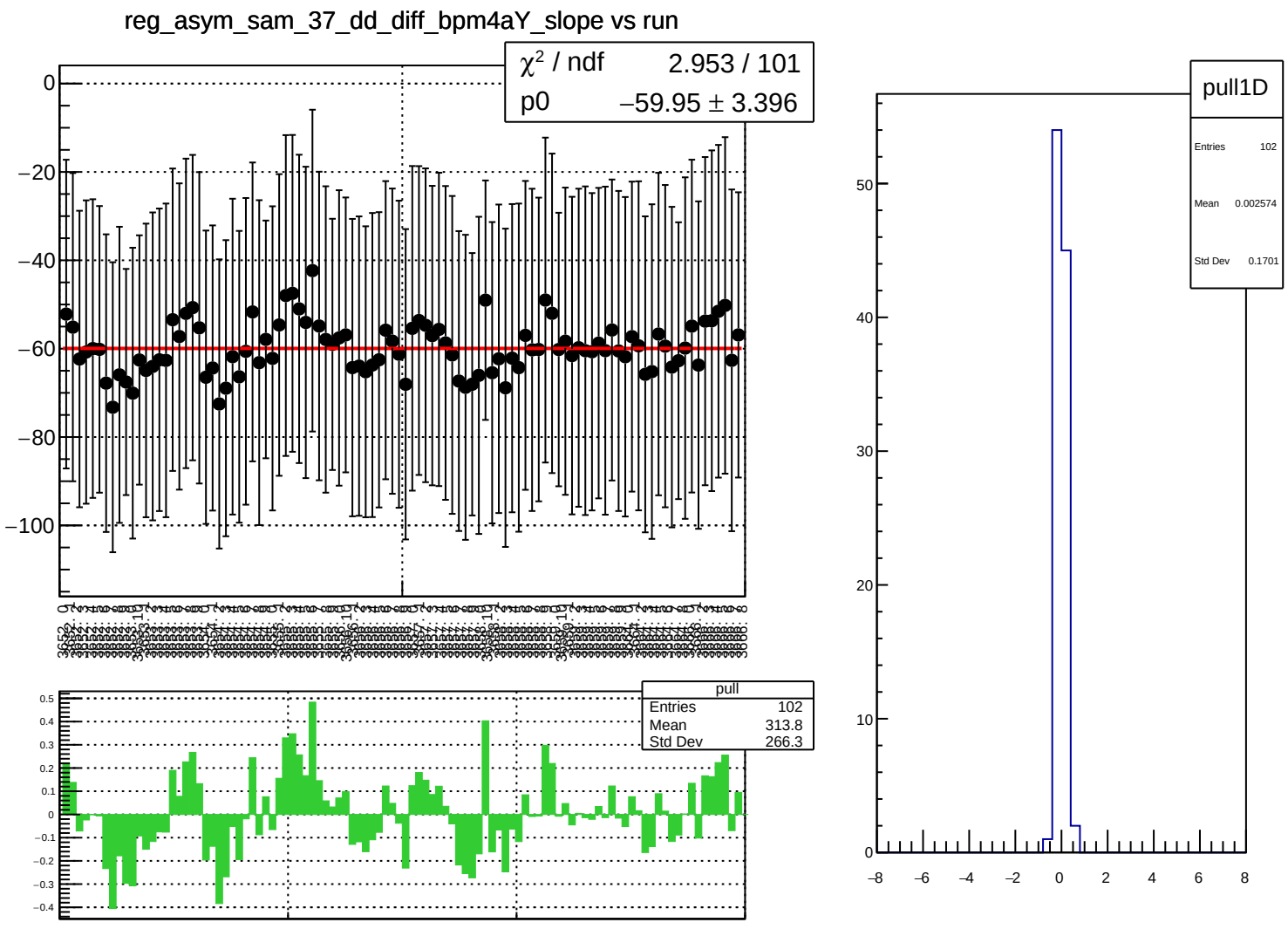

reg_asym_sam_37_avg_diff_bpm4eX_slope vs run
χ² / ndf 3.766e+04 / 101
p0 18.24 ± 0.06051
pull
Entries 102
Mean −28.17
Std Dev 78.46
pull1D
Entries 102
Mean 3.882
Std Dev 3.056

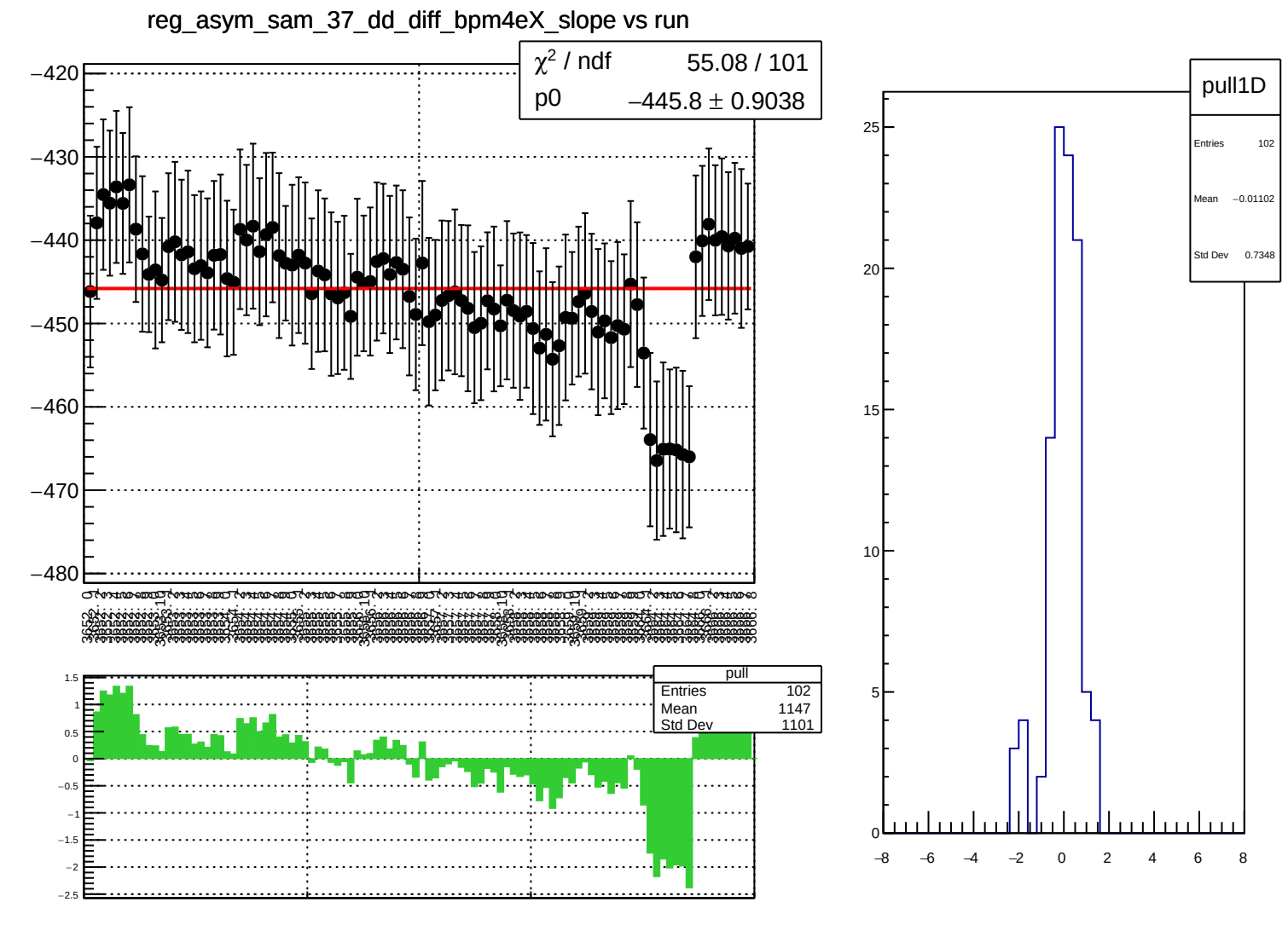

reg_asym_sam_37_avg_diff_bpm4eY_slope vs run
χ² / ndf 77.15 / 101
p0 −20.58 ± 0.3585
pull
Entries 102
Mean 120.2
Std Dev 71.86

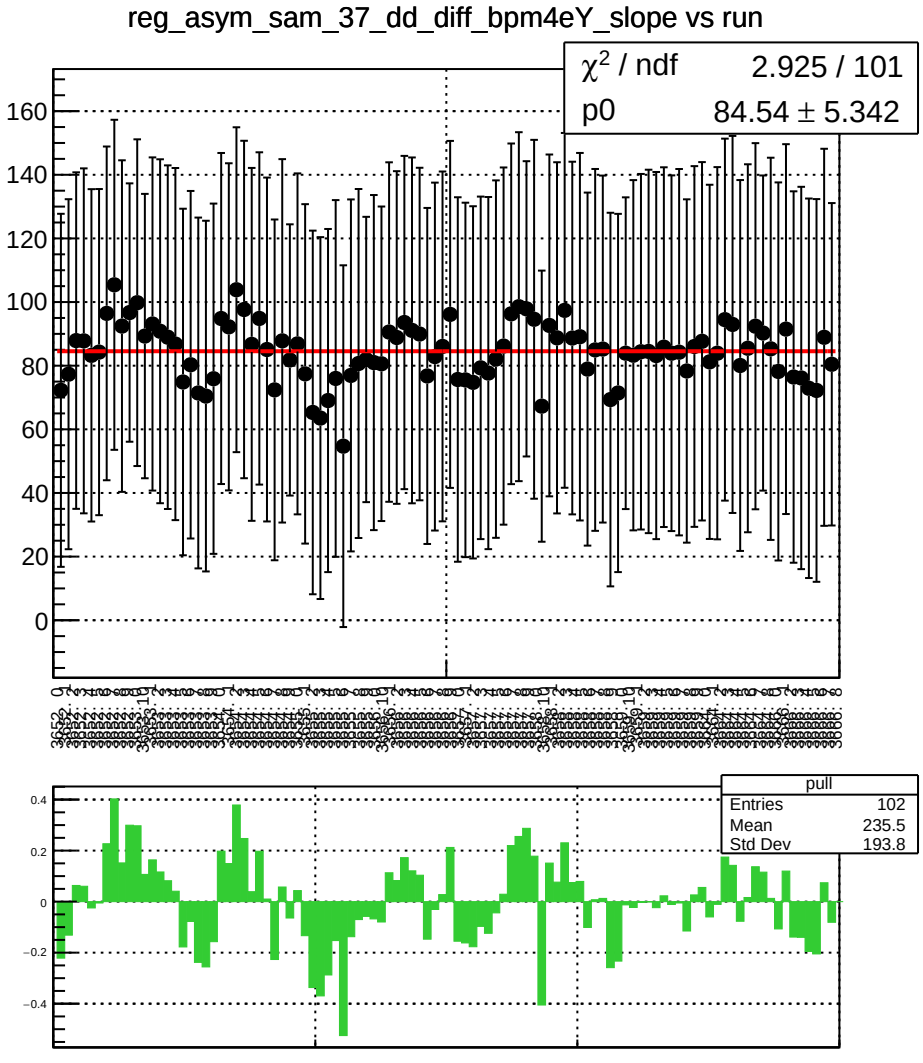

pull1D
Entries 102
Mean −0.06267
Std Dev 0.8674

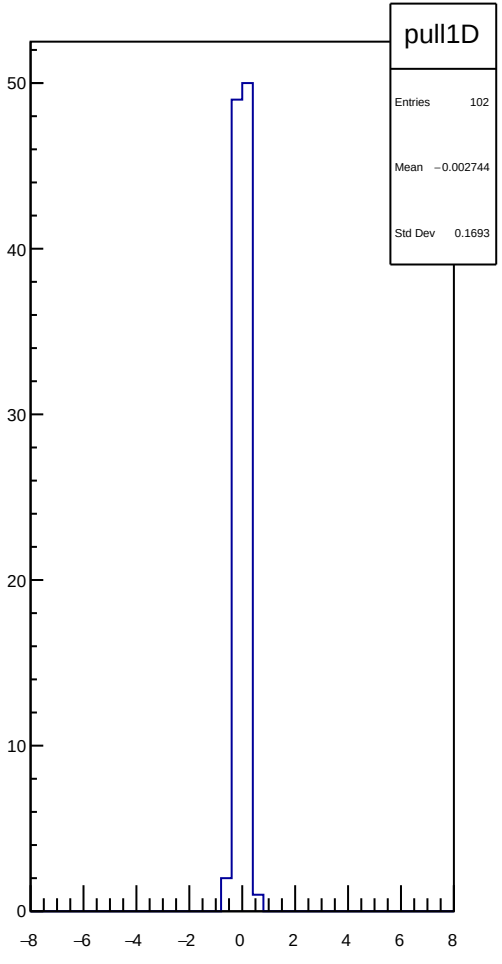

reg_asym_sam_37_avg_diff_bpm11X_slope vs run
χ² / ndf 102.3 / 101
p0 −1.202 ± 0.07707
pull
Entries 102
Mean 10.25
Std Dev 97.29
pull1D
Entries 102
Mean −0.05659
Std Dev 0.9998

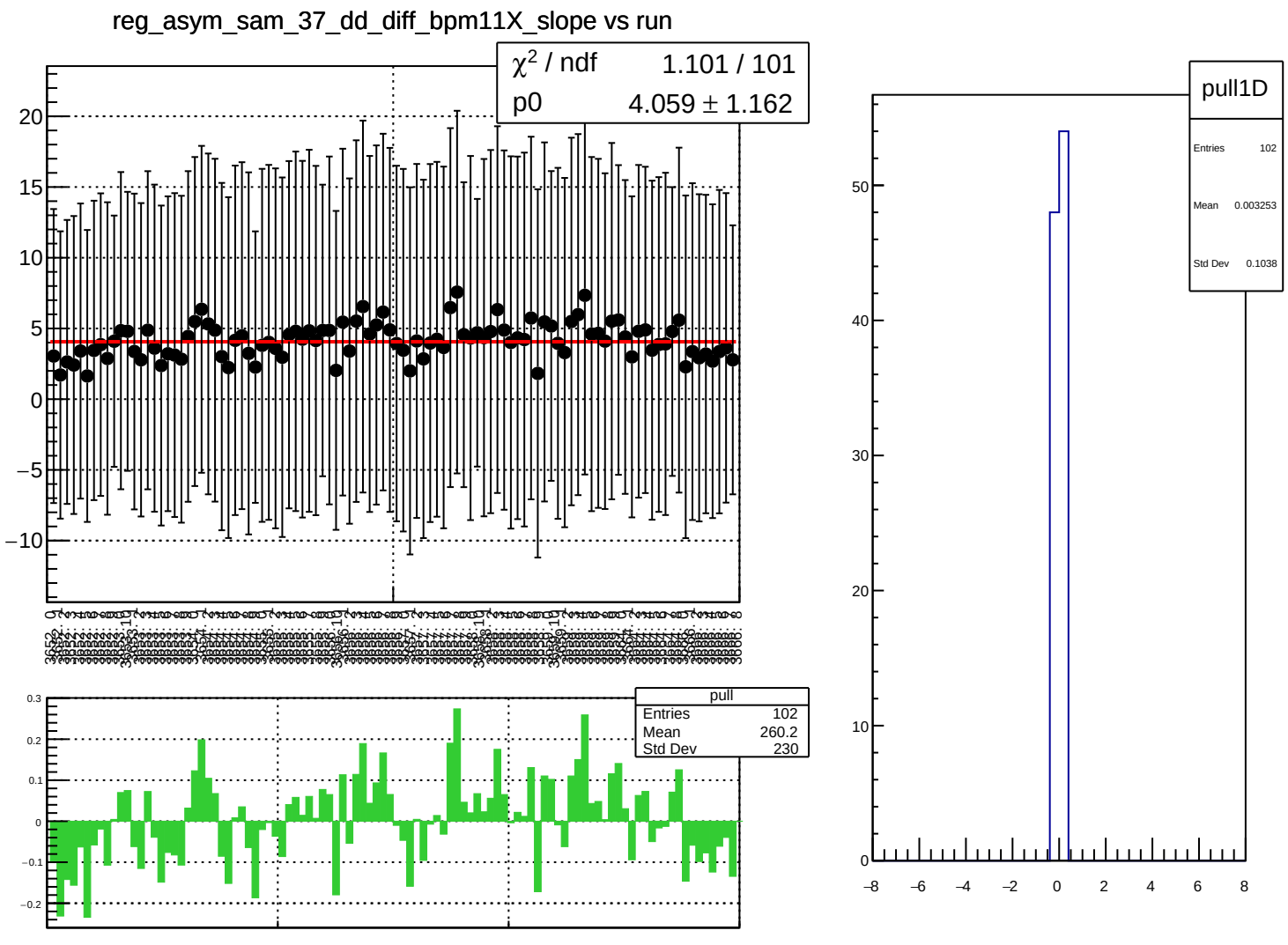

reg_asym_sam_37_dd_diff_bpm4aX_slope vs run
χ² / ndf 17.35 / 101
p0 87.96 ± 4.689
pull
Entries 102
Mean 835.7
Std Dev 771
pull1D
Entries 102
Mean −0.006855
Std Dev 0.4124

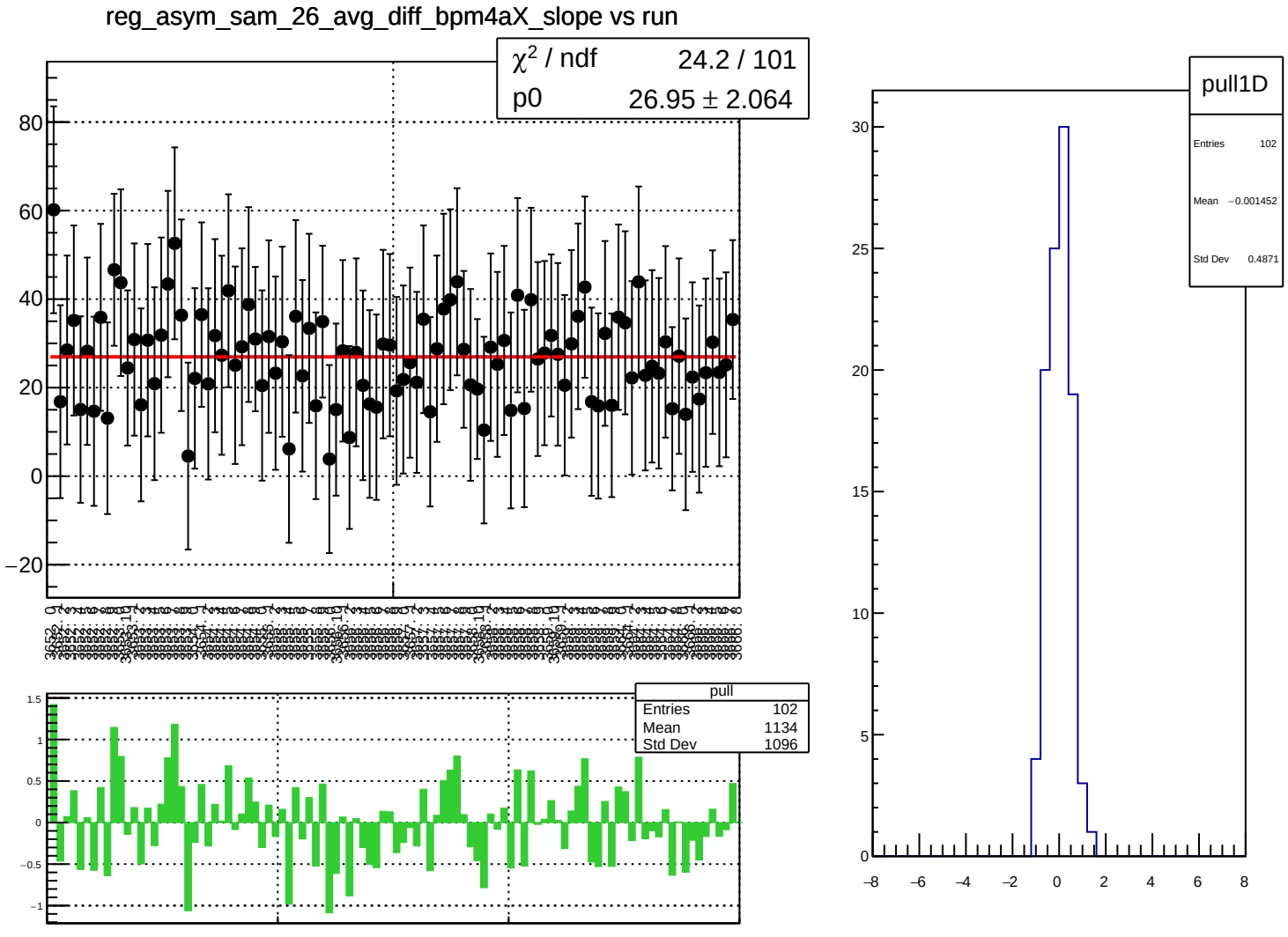

reg_asym_sam_37_dd_diff_bpm4aY_slope vs run
χ² / ndf 2.953 / 101
p0 −59.95 ± 3.396
0
−20
−40
−60
−80
−100
pull
Entries 102
Mean 313.8
Std Dev 266.3
0.5
0.4
0.3
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull1D
Entries 102
Mean 0.002574
Std Dev 0.1701
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

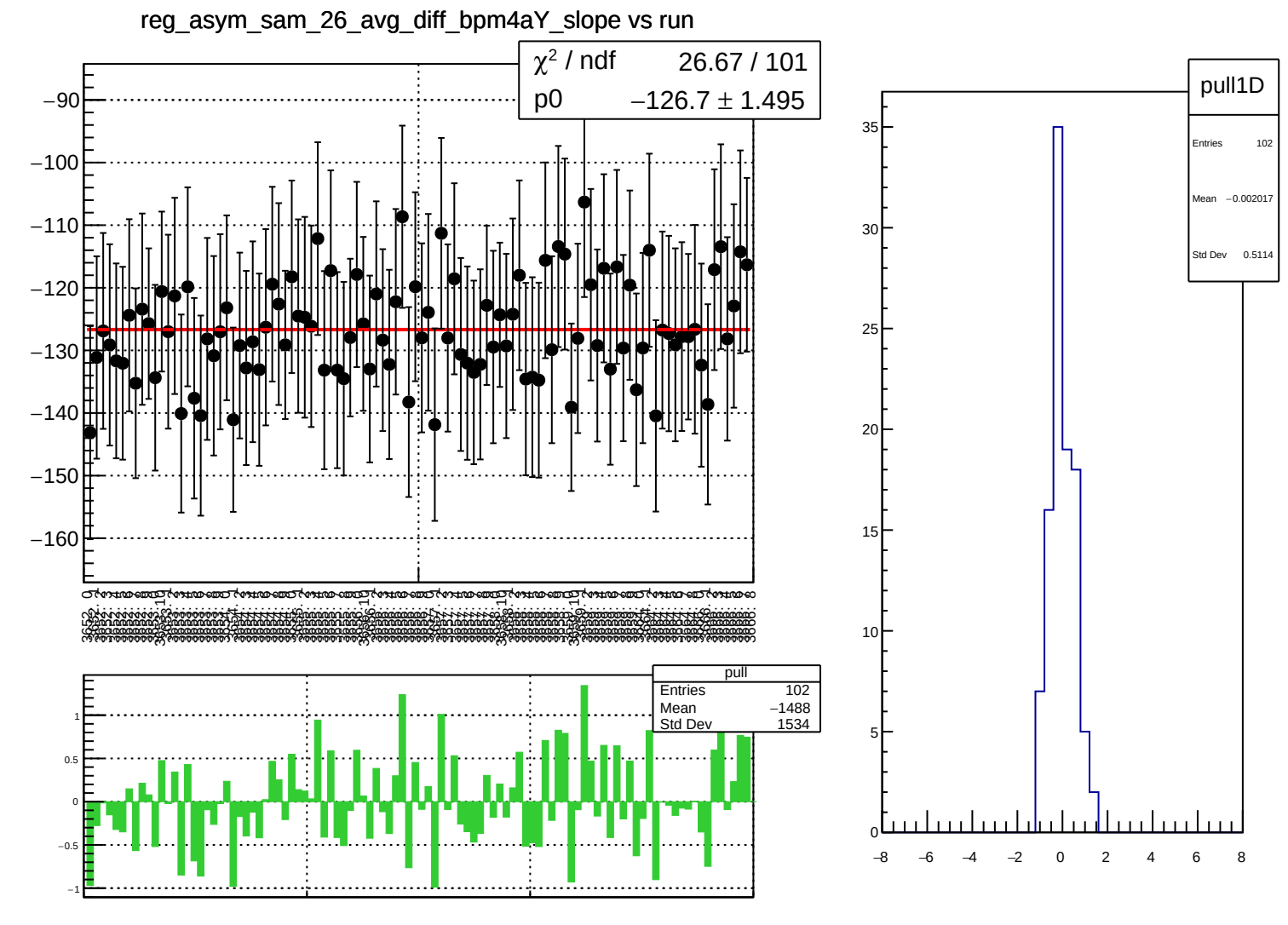

reg_asym_sam_37_dd_diff_bpm4eX_slope vs run
χ² / ndf 55.08 / 101
p0 −445.8 ± 0.9038
pull
Entries 102
Mean 1147
Std Dev 1101
pull1D
Entries 102
Mean −0.01102
Std Dev 0.7348

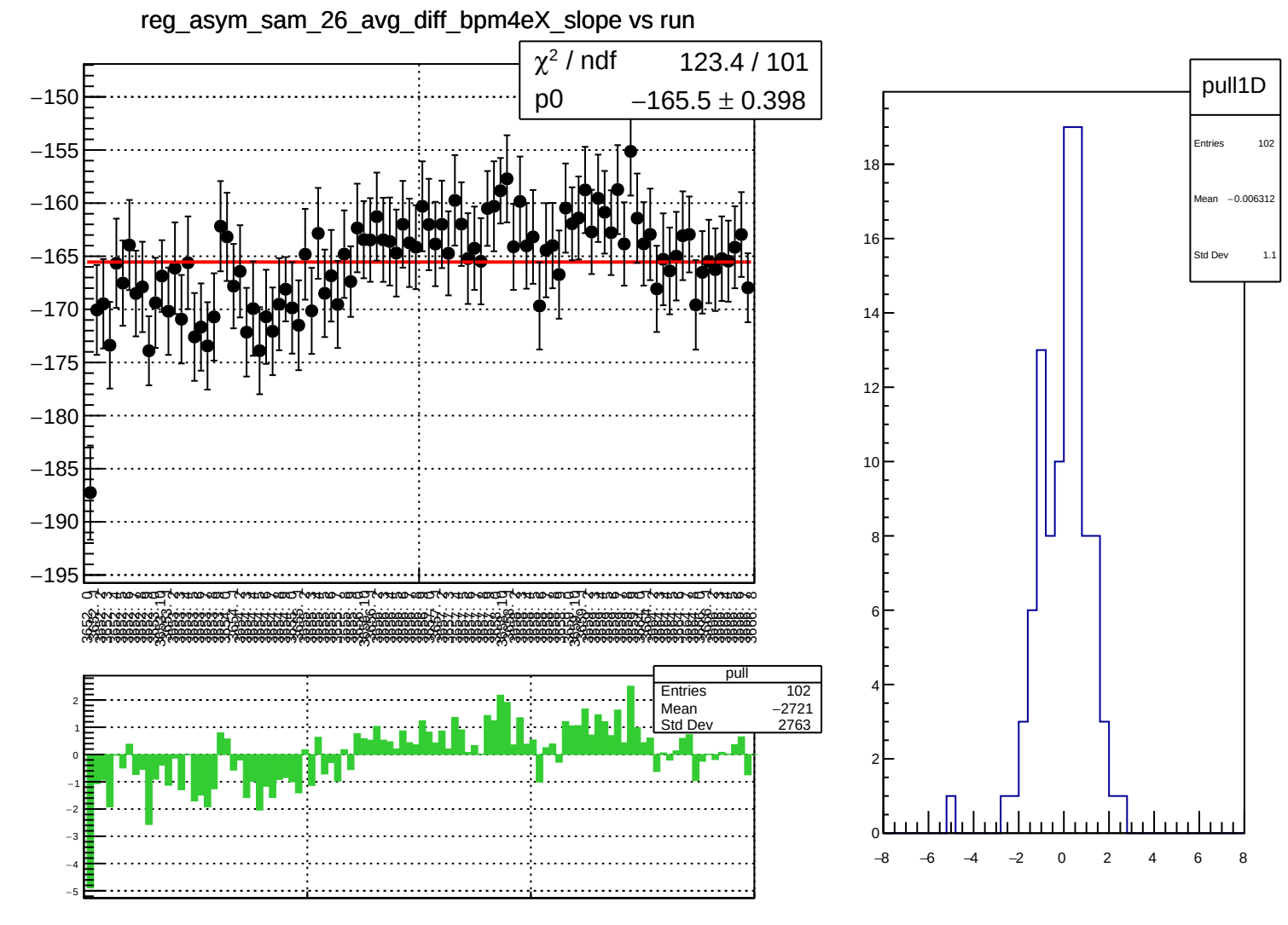

reg_asym_sam_37_dd_diff_bpm4eY_slope vs run
χ² / ndf 2.925 / 101
p0 84.54 ± 5.342
pull
Entries 102
Mean 235.5
Std Dev 193.8

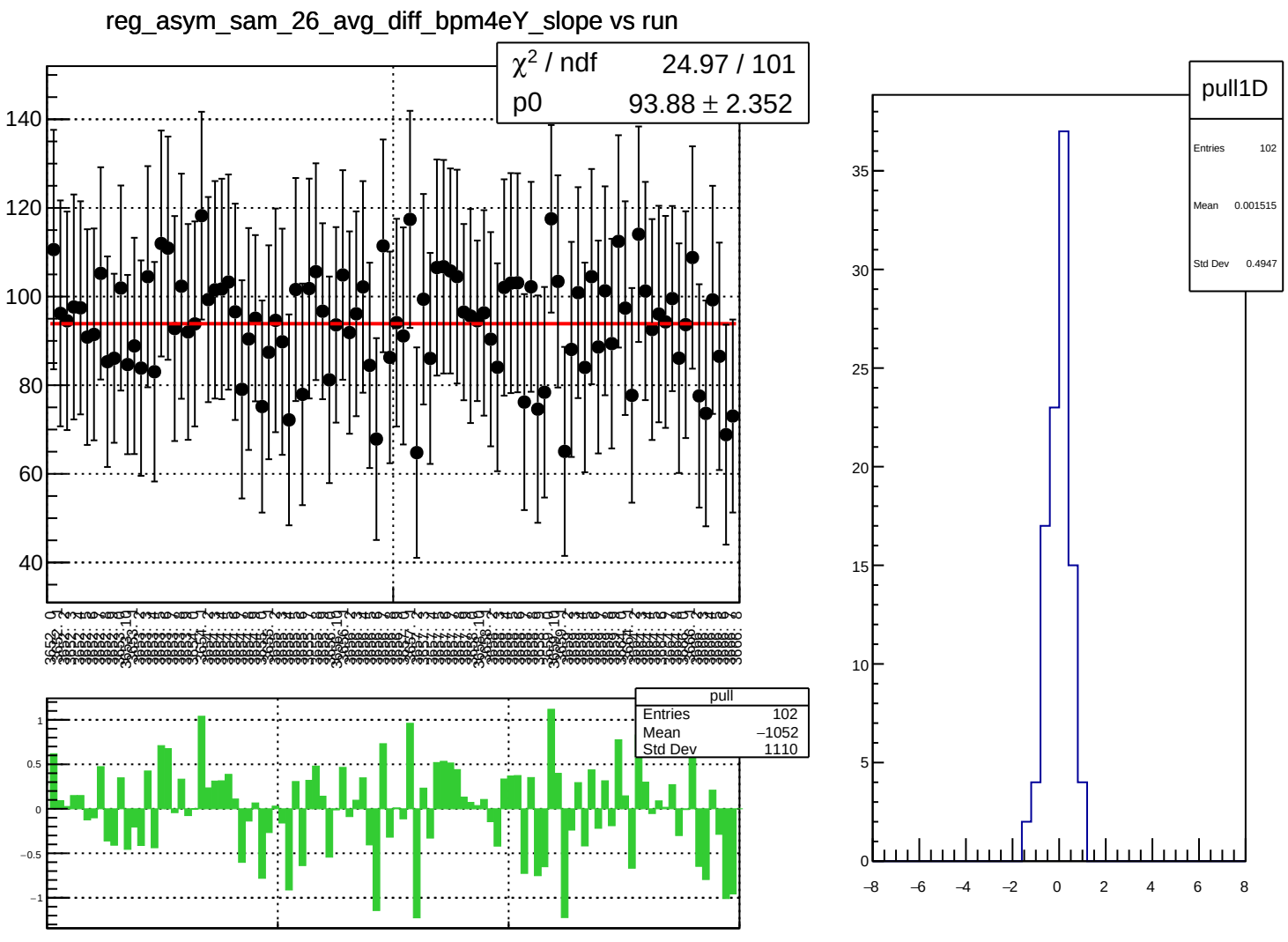

pull1D
Entries 102
Mean −0.002744
Std Dev 0.1693

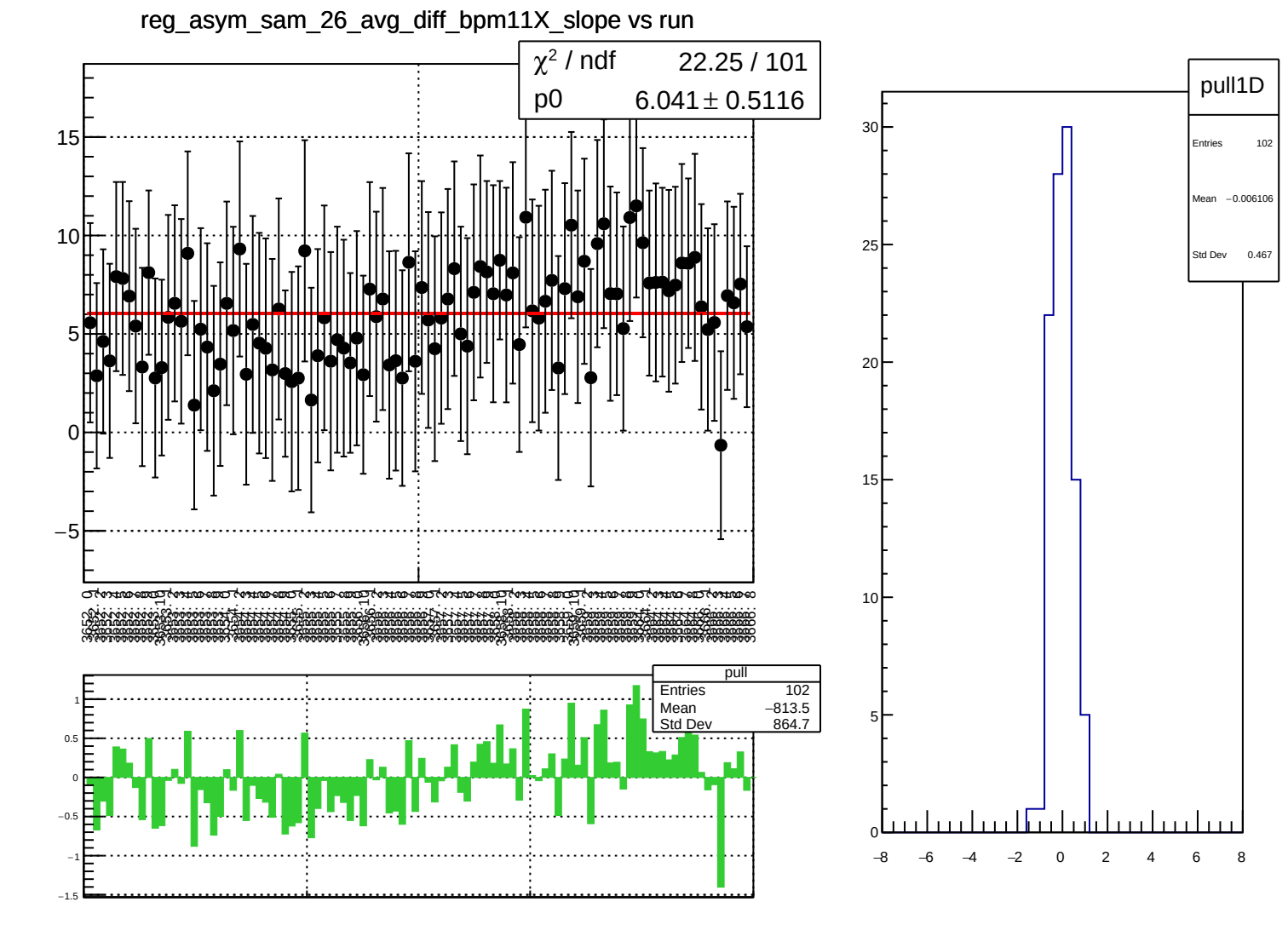

reg_asym_sam_37_dd_diff_bpm11X_slope vs run
χ² / ndf 1.101 / 101
p0 4.059 ± 1.162
pull
Entries 102
Mean 260.2
Std Dev 230
pull1D
Entries 102
Mean 0.003253
Std Dev 0.1038

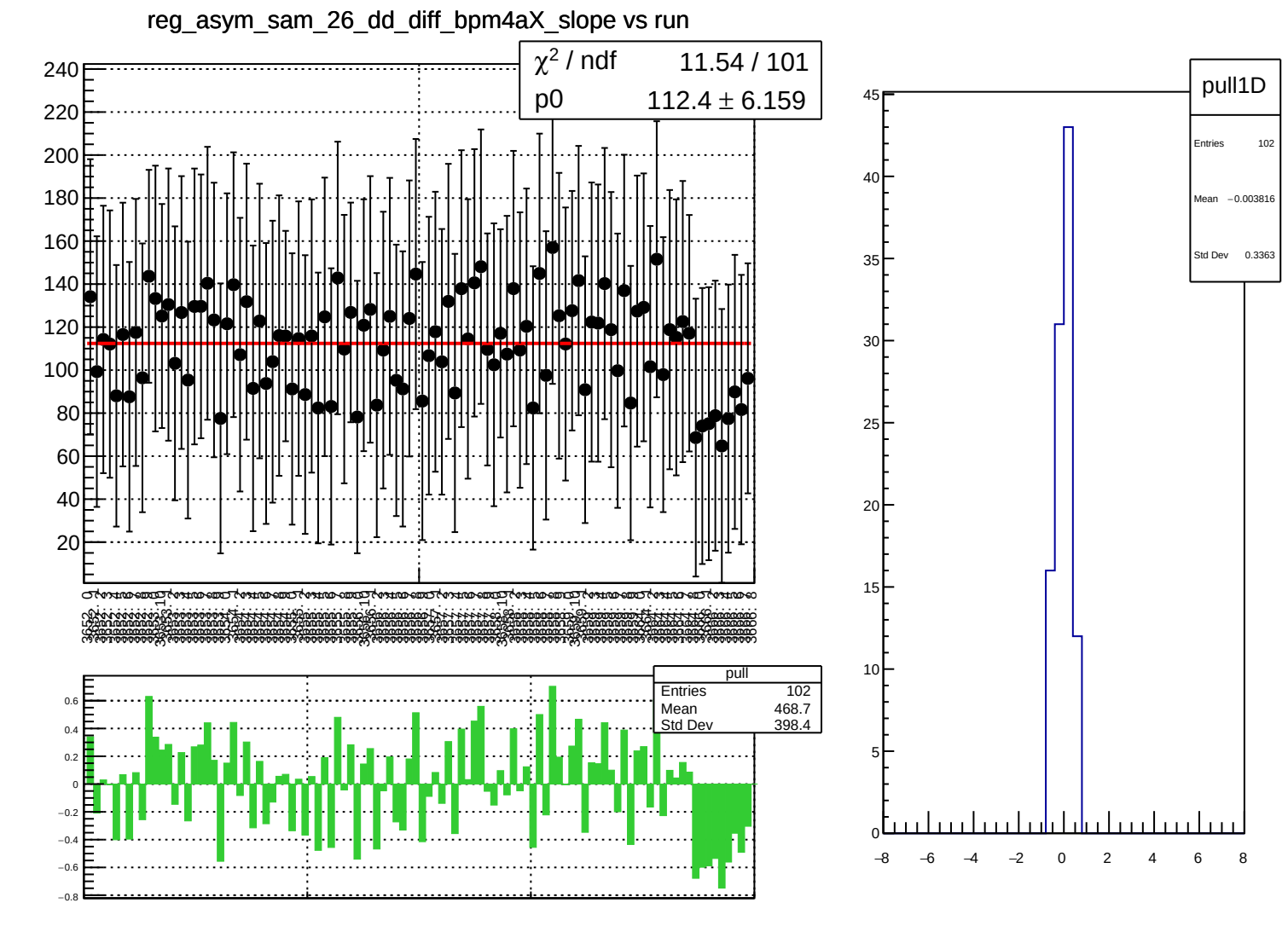

reg_asym_sam_26_avg_diff_bpm4aX_slope vs run
χ² / ndf 24.2 / 101
p0 26.95 ± 2.064
pull
Entries 102
Mean 1134
Std Dev 1096
pull1D
Entries 102
Mean −0.001452
Std Dev 0.4871

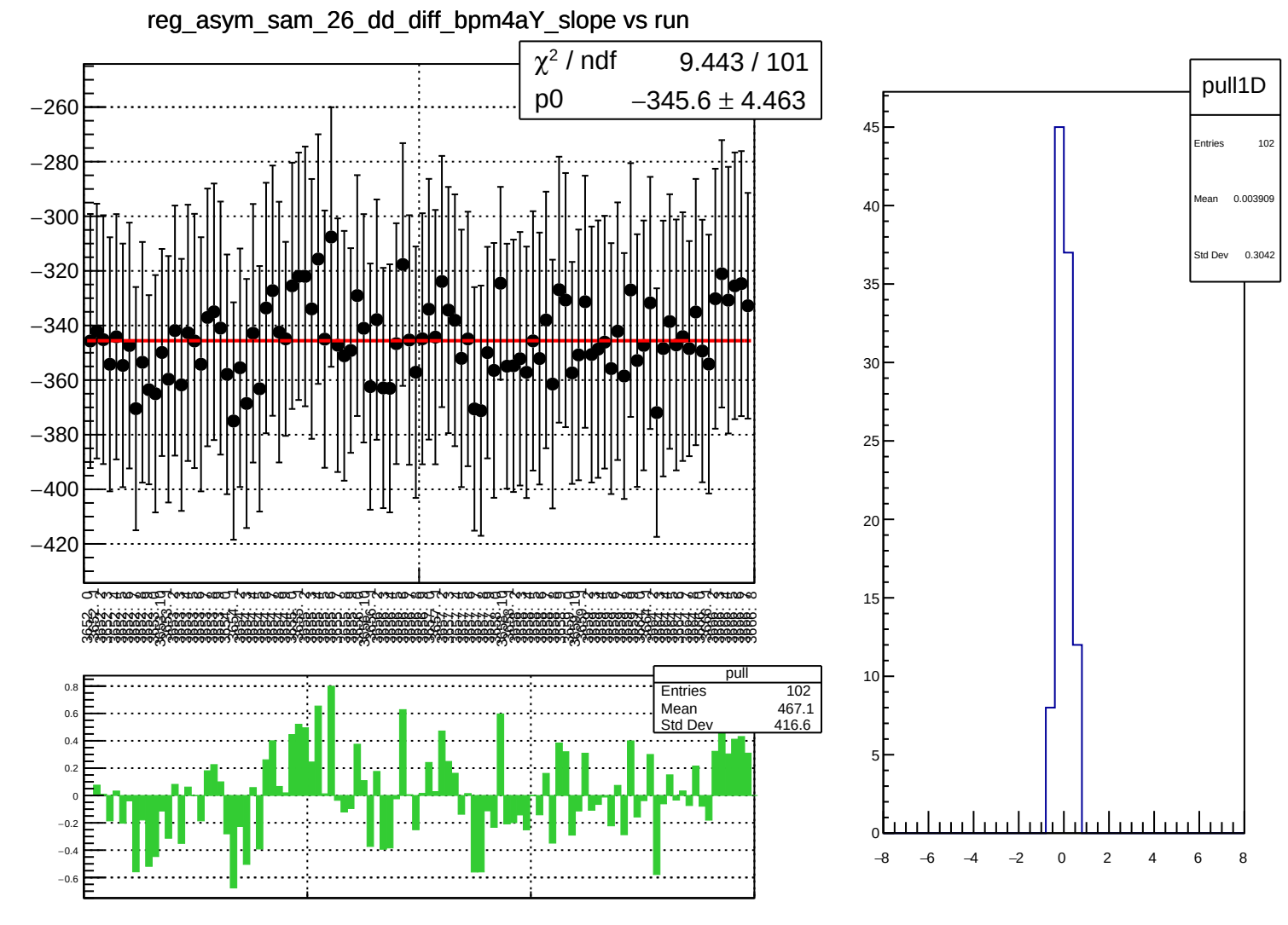

reg_asym_sam_26_avg_diff_bpm4aY_slope vs run
χ² / ndf 26.67 / 101
p0 −126.7 ± 1.495
pull
Entries 102
Mean −1488
Std Dev 1534
pull1D
Entries 102
Mean −0.002017
Std Dev 0.5114

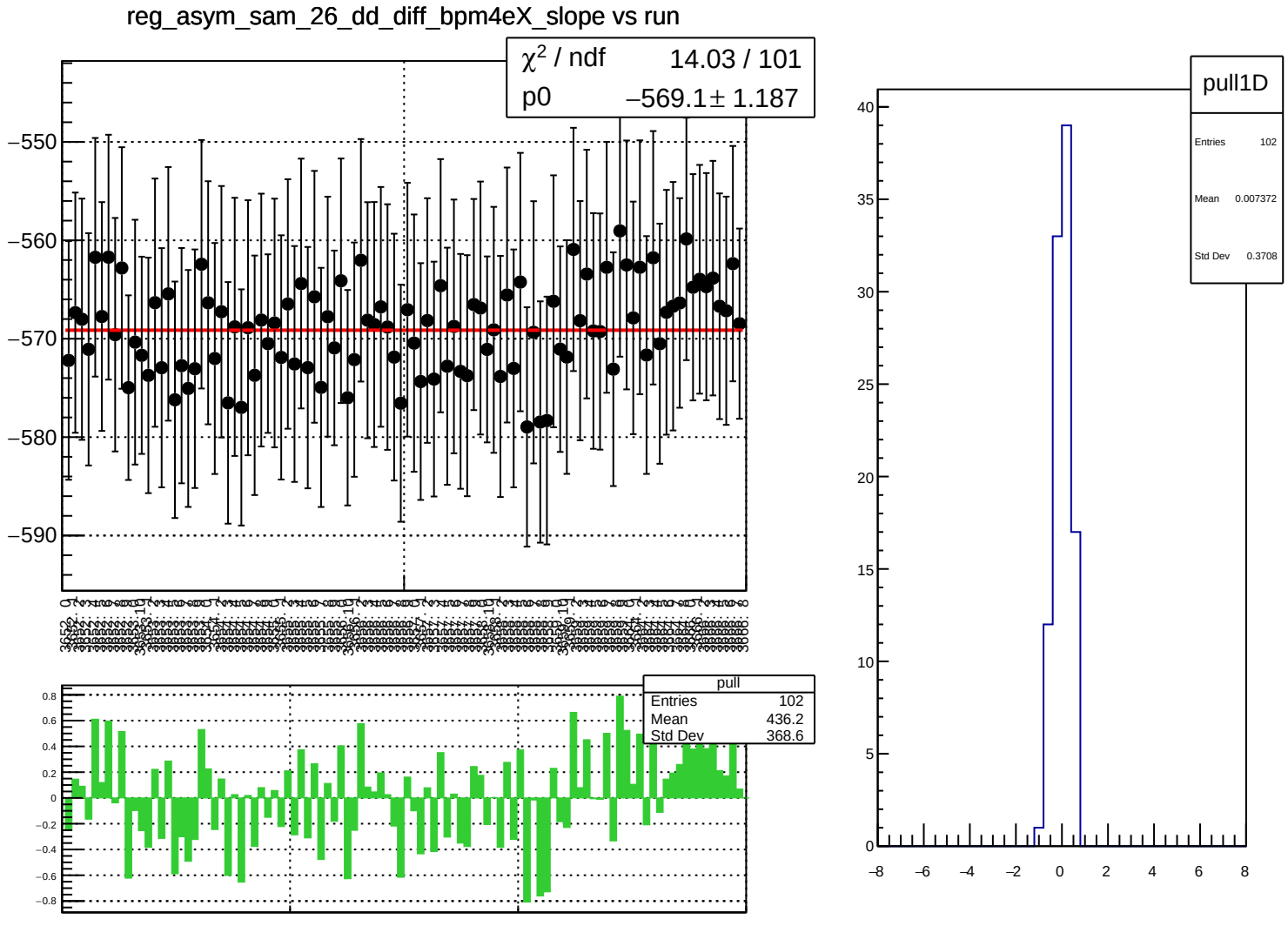

reg_asym_sam_26_avg_diff_bpm4eX_slope vs run
χ² / ndf 123.4 / 101
p0 −165.5 ± 0.398
pull
Entries 102
Mean −2721
Std Dev 2763
pull1D
Entries 102
Mean −0.006312
Std Dev 1.1

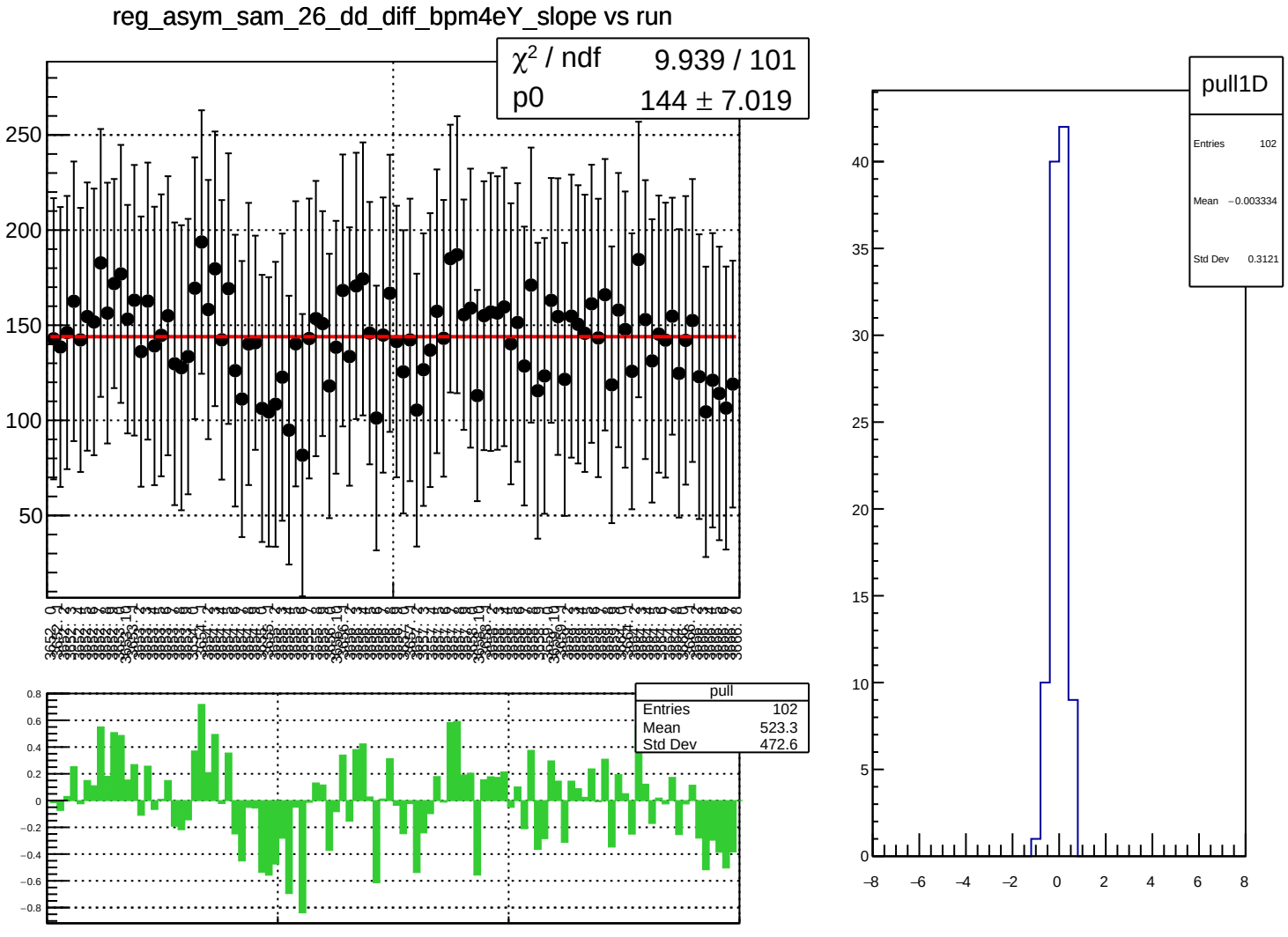

reg_asym_sam_26_avg_diff_bpm4eY_slope vs run
χ² / ndf 24.97 / 101
p0 93.88 ± 2.352
140
120
100
80
60
40
pull
Entries 102
Mean −1052
Std Dev 1110
1
0.5
0
−0.5
−1
pull1D
Entries 102
Mean 0.001515
Std Dev 0.4947
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

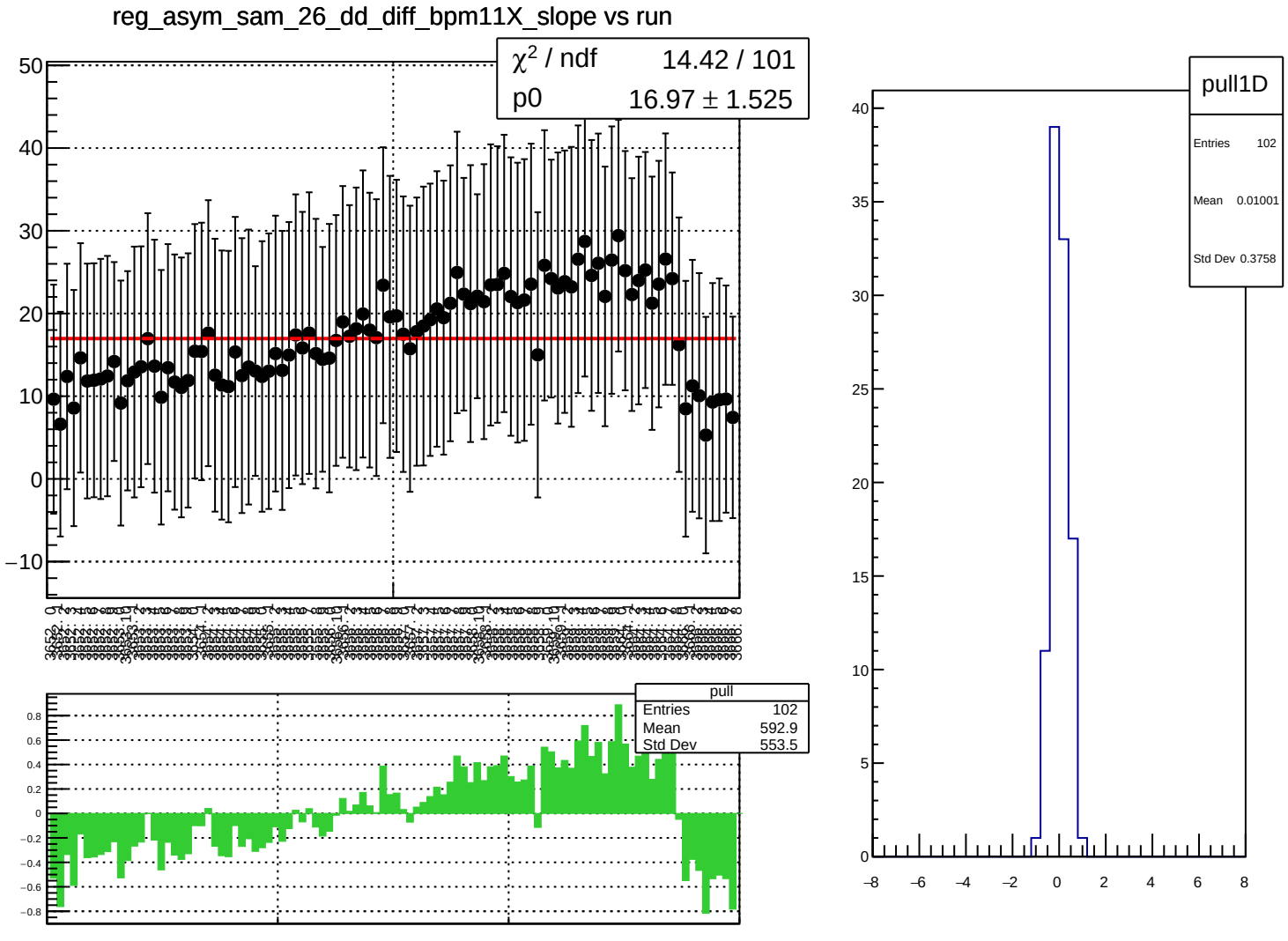

reg_asym_sam_26_avg_diff_bpm11X_slope vs run
χ² / ndf 22.25 / 101
p0 6.041 ± 0.5116
pull
Entries 102
Mean −813.5
Std Dev 864.7
pull1D
Entries 102
Mean −0.006106
Std Dev 0.467

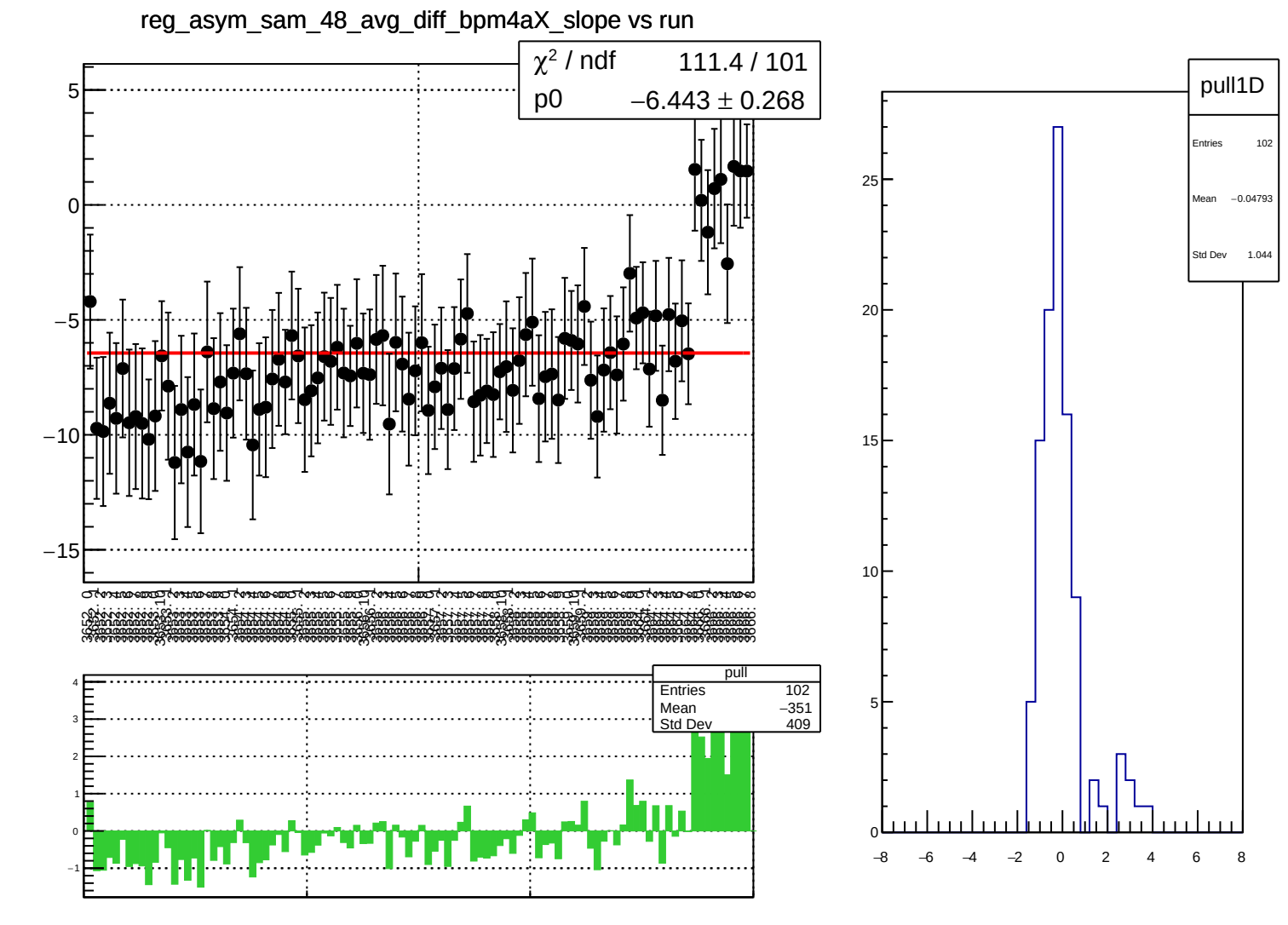

reg_asym_sam_26_dd_diff_bpm4aX_slope vs run
χ² / ndf 11.54 / 101
p0 112.4 ± 6.159
pull
Entries 102
Mean 468.7
Std Dev 398.4
pull1D
Entries 102
Mean −0.003816
Std Dev 0.3363

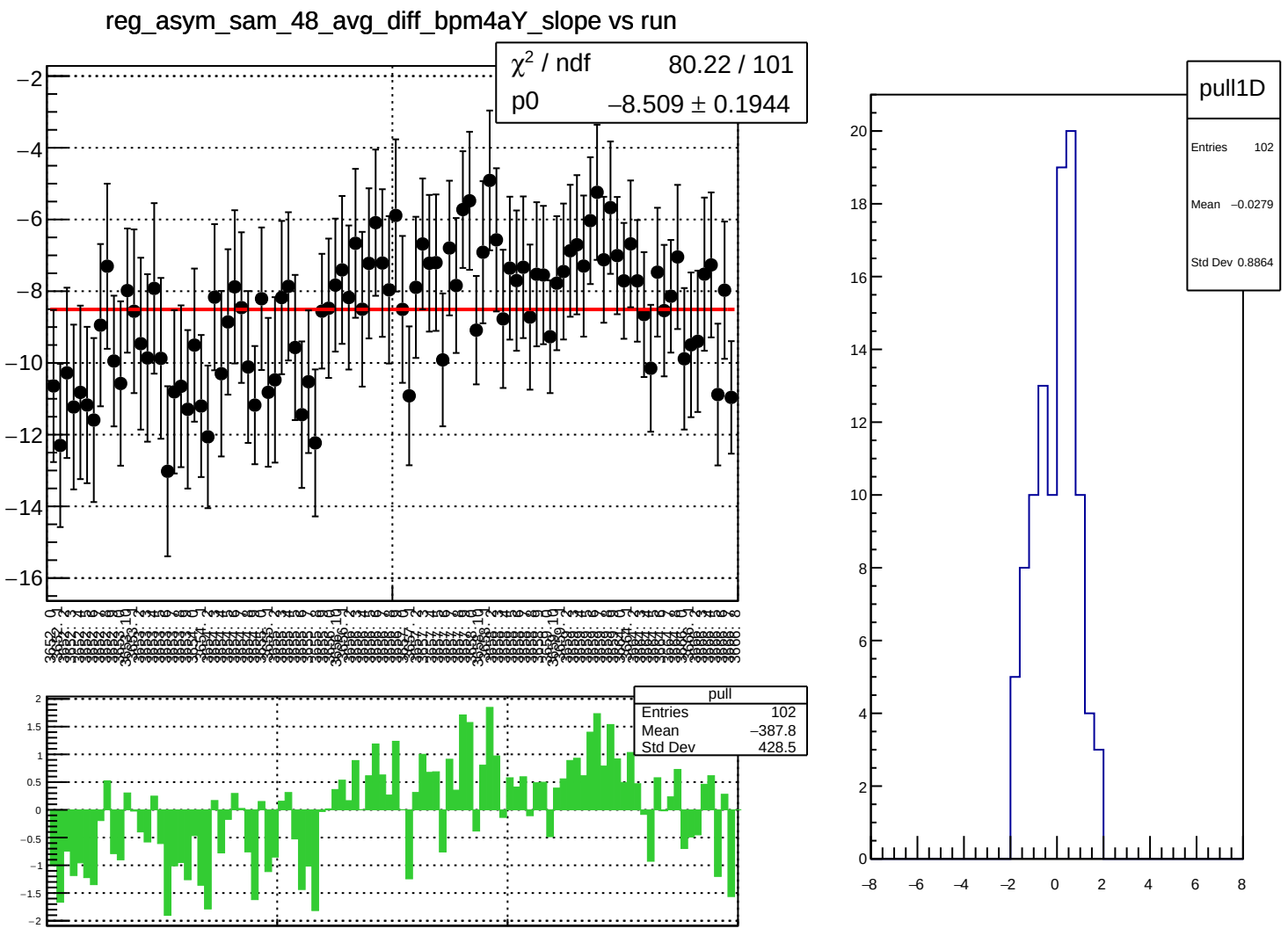

reg_asym_sam_26_dd_diff_bpm4aY_slope vs run
χ² / ndf 9.443 / 101
p0 −345.6 ± 4.463
−260
−280
−300
−320
−340
−360
−380
−400
−420
pull
Entries 102
Mean 467.1
Std Dev 416.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 102
Mean 0.003909
Std Dev 0.3042
45
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

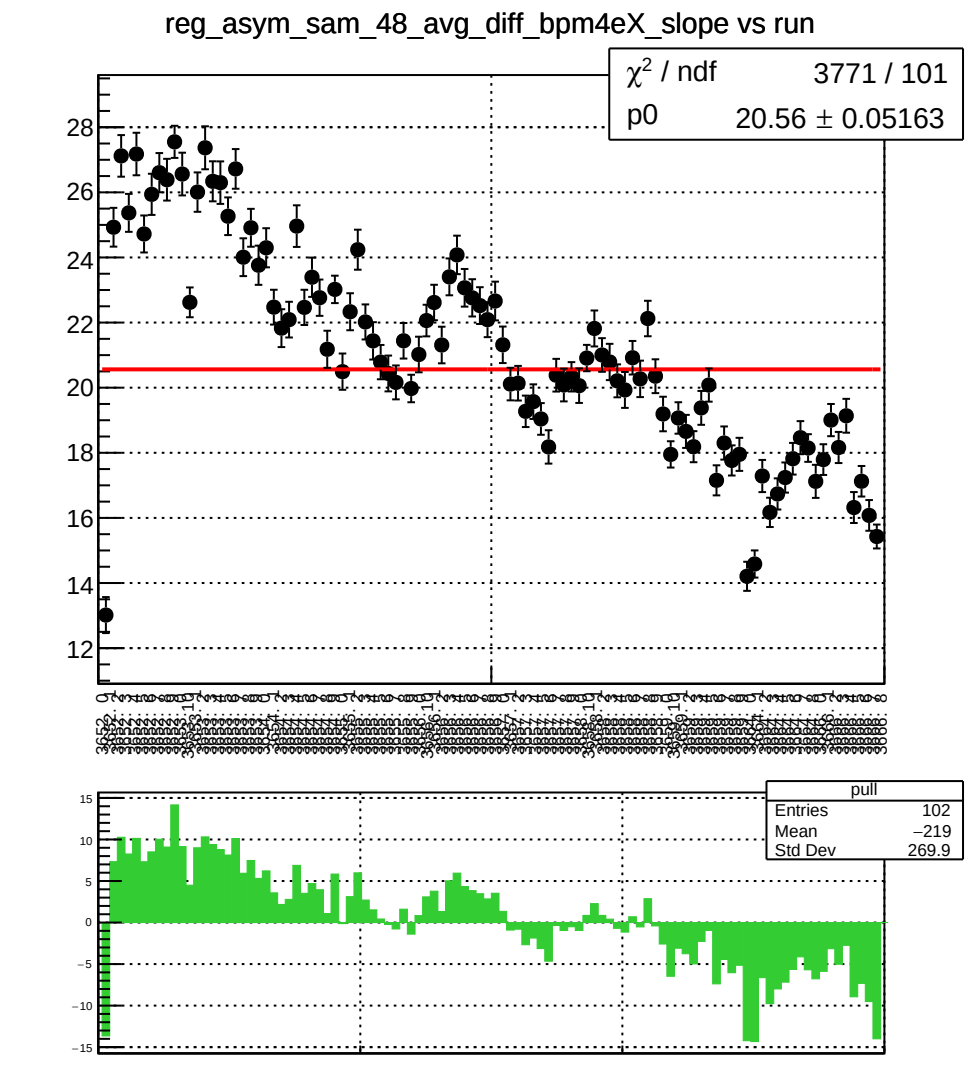

reg_asym_sam_26_dd_diff_bpm4eX_slope vs run
χ² / ndf 14.03 / 101
p0 −569.1± 1.187
−550
−560
−570
−580
−590
pull
Entries 102
Mean 436.2
Std Dev 368.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 102
Mean 0.007372
Std Dev 0.3708
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

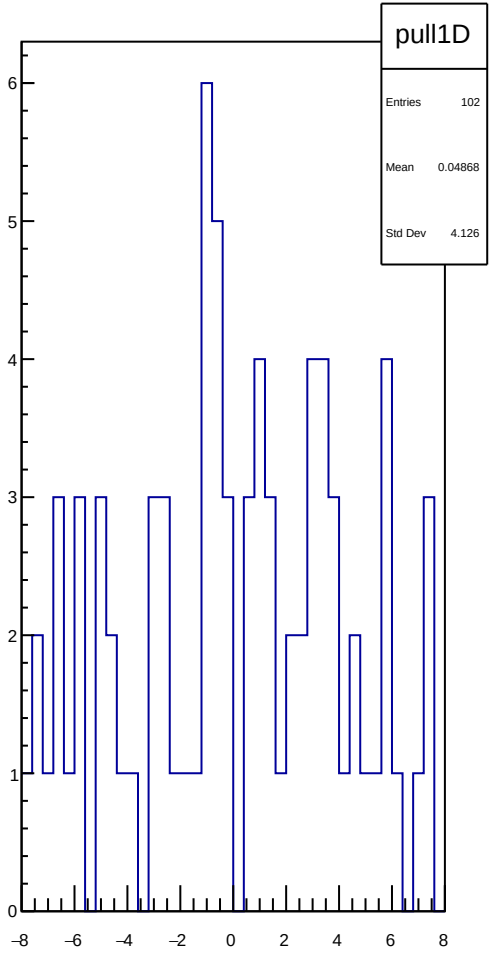

reg_asym_sam_26_dd_diff_bpm4eY_slope vs run
χ² / ndf 9.939 / 101
p0 144 ± 7.019
250
200
150
100
50
pull
Entries 102
Mean 523.3
Std Dev 472.6
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
pull1D
Entries 102
Mean −0.003334
Std Dev 0.3121
40
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

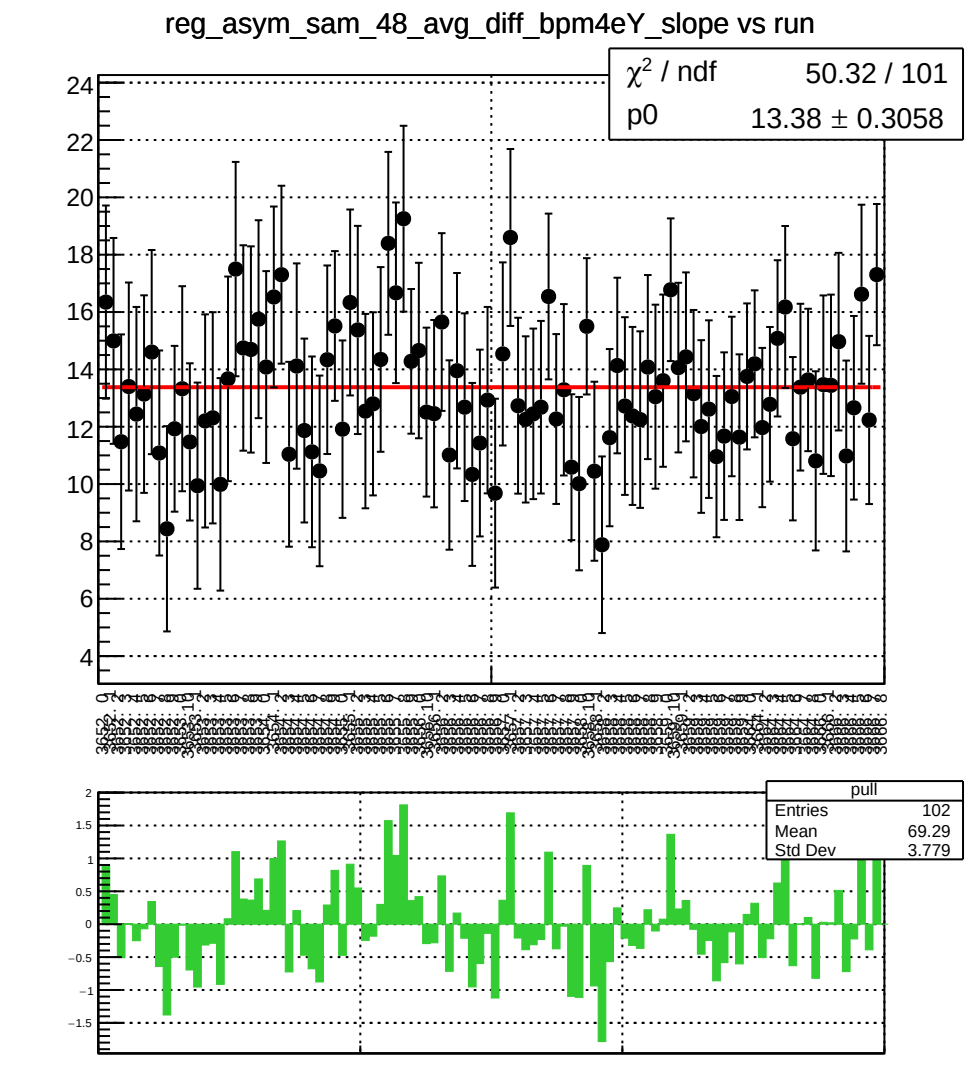

reg_asym_sam_26_dd_diff_bpm11X_slope vs run
χ² / ndf 14.42 / 101
p0 16.97 ± 1.525
pull
Entries 102
Mean 592.9
Std Dev 553.5
pull1D
Entries 102
Mean 0.01001
Std Dev 0.3758

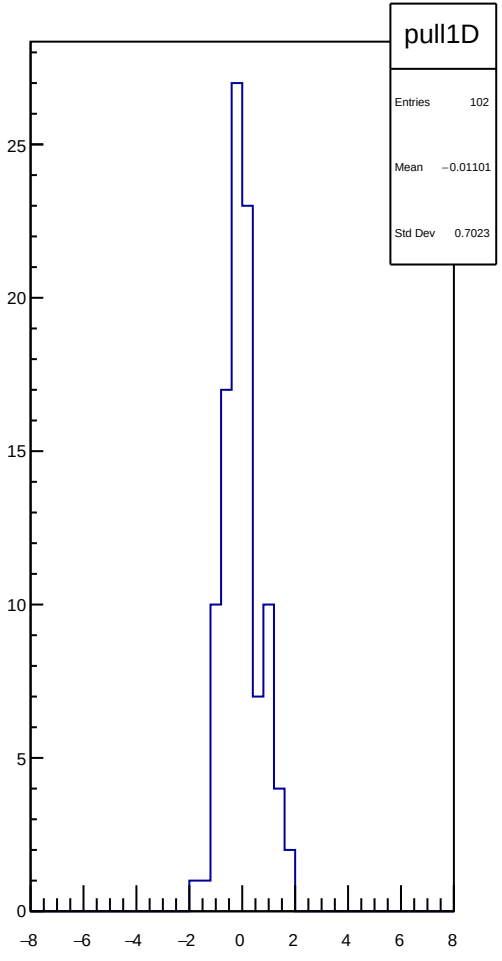

reg_asym_sam_48_avg_diff_bpm4aX_slope vs run
χ² / ndf 111.4 / 101
p0 −6.443 ± 0.268
pull
Entries 102
Mean −351
Std Dev 409
pull1D
Entries 102
Mean −0.04793
Std Dev 1.044

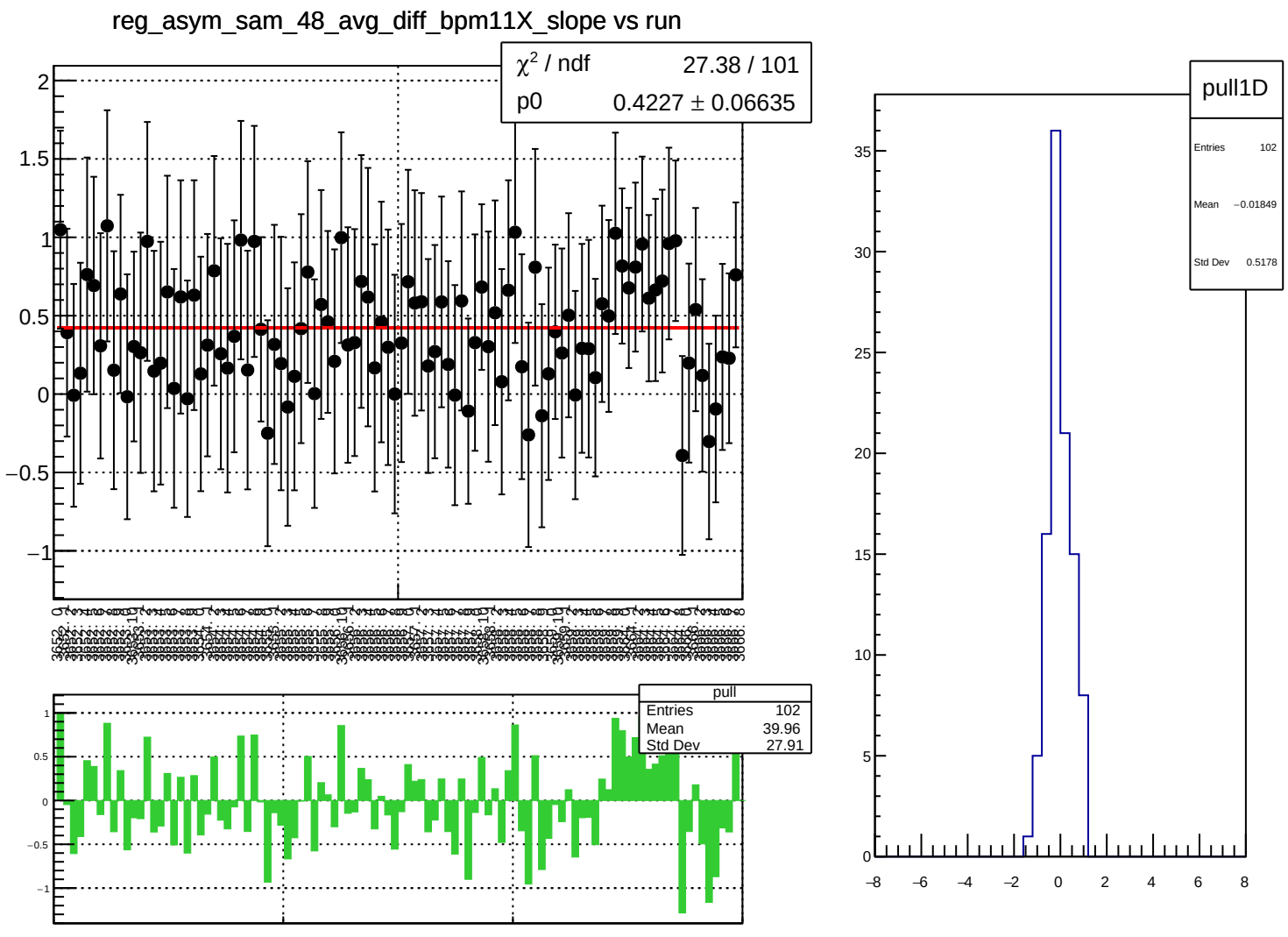

reg_asym_sam_48_avg_diff_bpm4aY_slope vs run
χ² / ndf 80.22 / 101
p0 −8.509 ± 0.1944
pull
Entries 102
Mean −387.8
Std Dev 428.5
pull1D
Entries 102
Mean −0.0279
Std Dev 0.8864

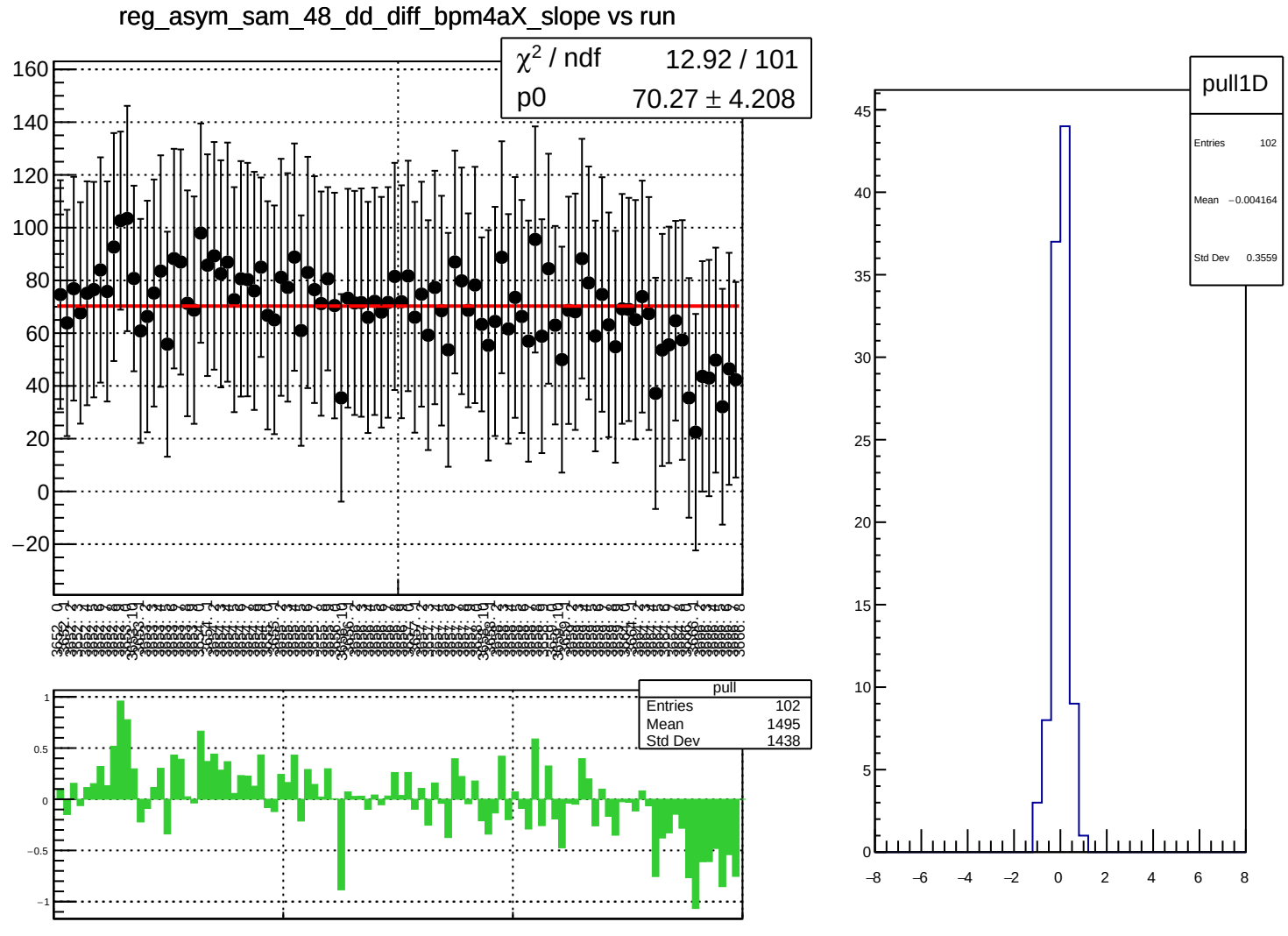

reg_asym_sam_48_avg_diff_bpm4eX_slope vs run
χ² / ndf 3771 / 101
p0 20.56 ± 0.05163
pull
Entries 102
Mean −219
Std Dev 269.9

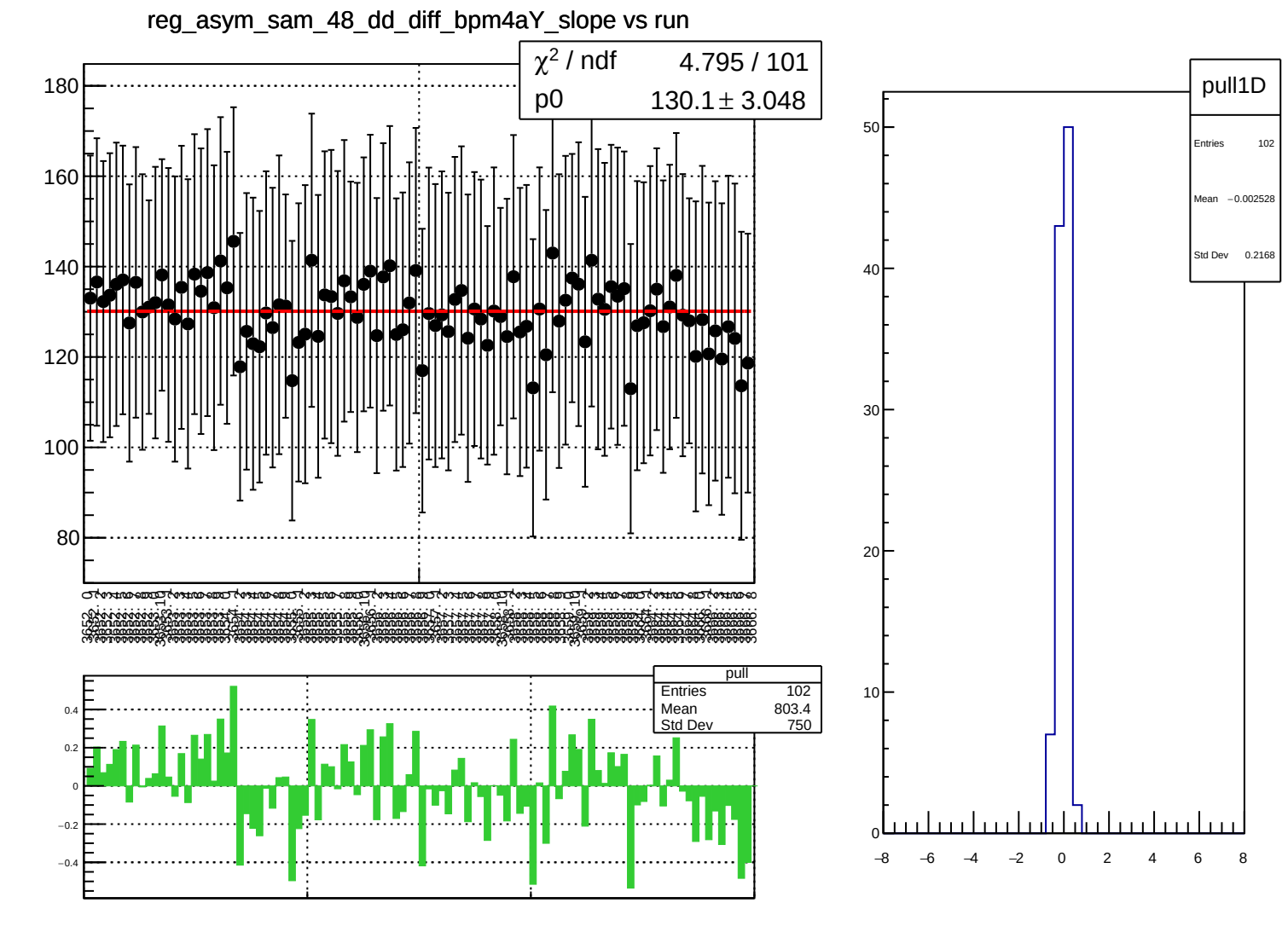

pull1D
Entries 102
Mean 0.04868
Std Dev 4.126

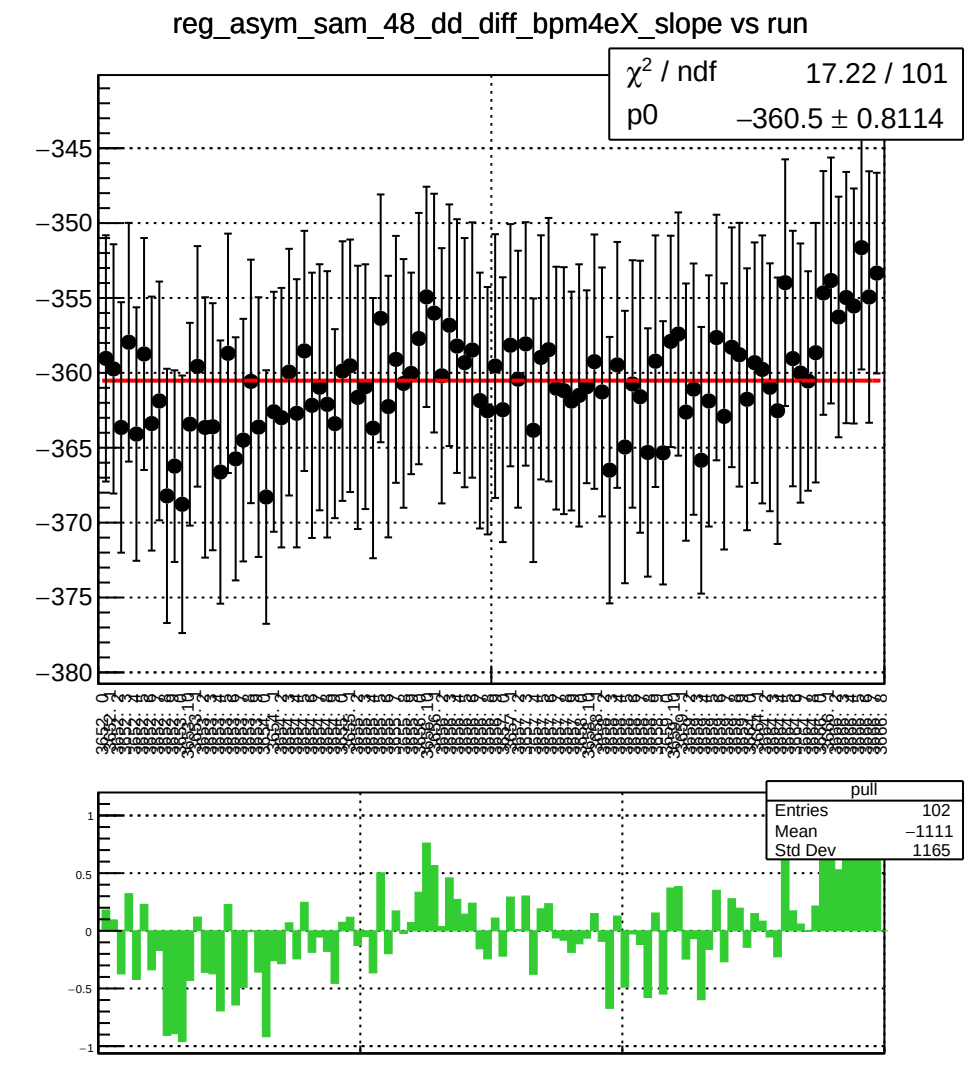

reg_asym_sam_48_avg_diff_bpm4eY_slope vs run
χ² / ndf 50.32 / 101
p0 13.38 ± 0.3058
pull
Entries 102
Mean 69.29
Std Dev 3.779

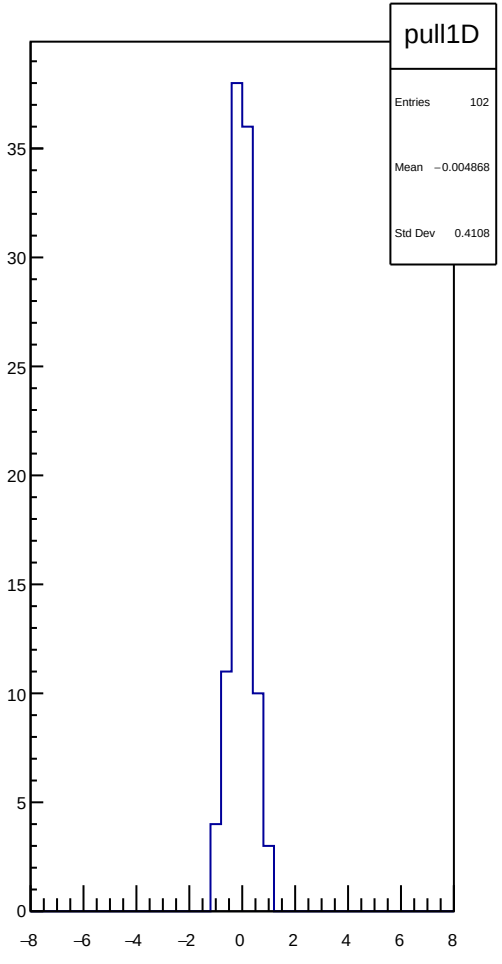

pull1D
Entries 102
Mean −0.01101
Std Dev 0.7023

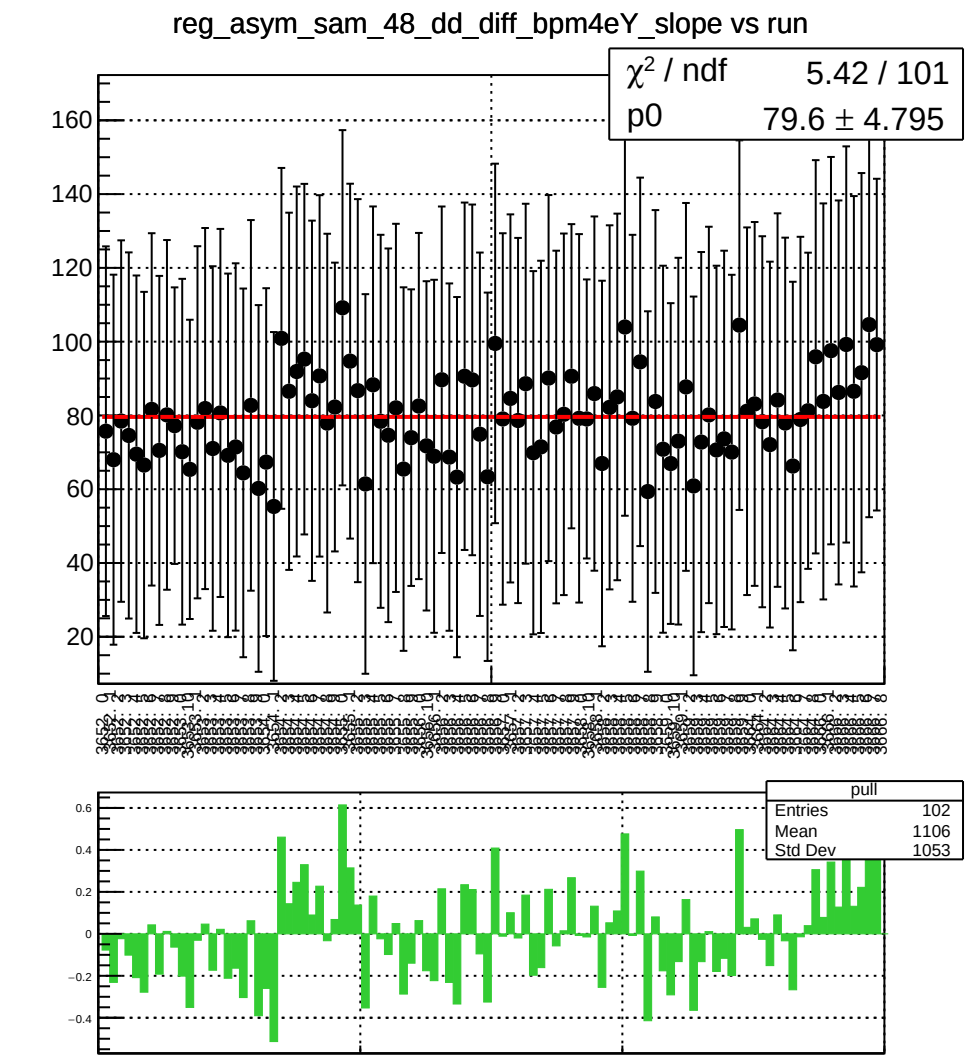

reg_asym_sam_48_avg_diff_bpm11X_slope vs run
χ² / ndf 27.38 / 101
p0 0.4227 ± 0.06635
pull
Entries 102
Mean 39.96
Std Dev 27.91
pull1D
Entries 102
Mean −0.01849
Std Dev 0.5178

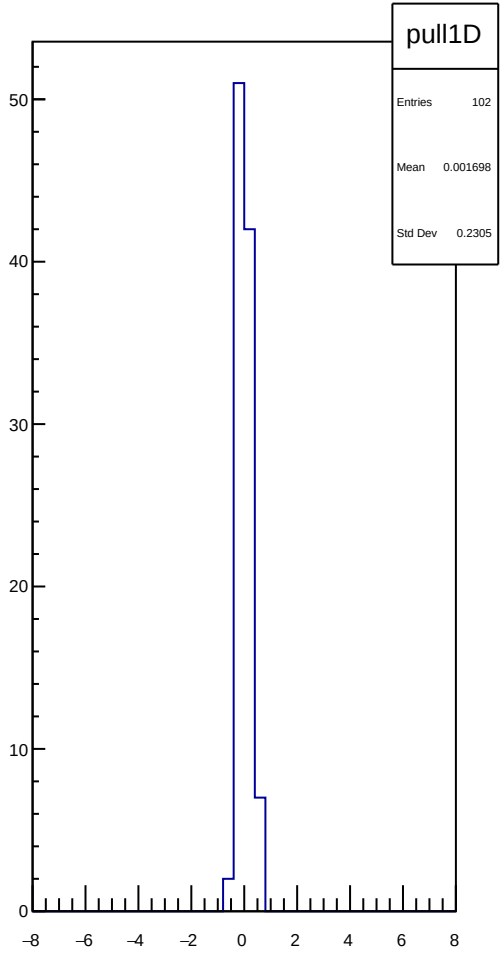

reg_asym_sam_48_dd_diff_bpm4aX_slope vs run
χ² / ndf 12.92 / 101
p0 70.27 ± 4.208
pull
Entries 102
Mean 1495
Std Dev 1438
pull1D
Entries 102
Mean −0.004164
Std Dev 0.3559

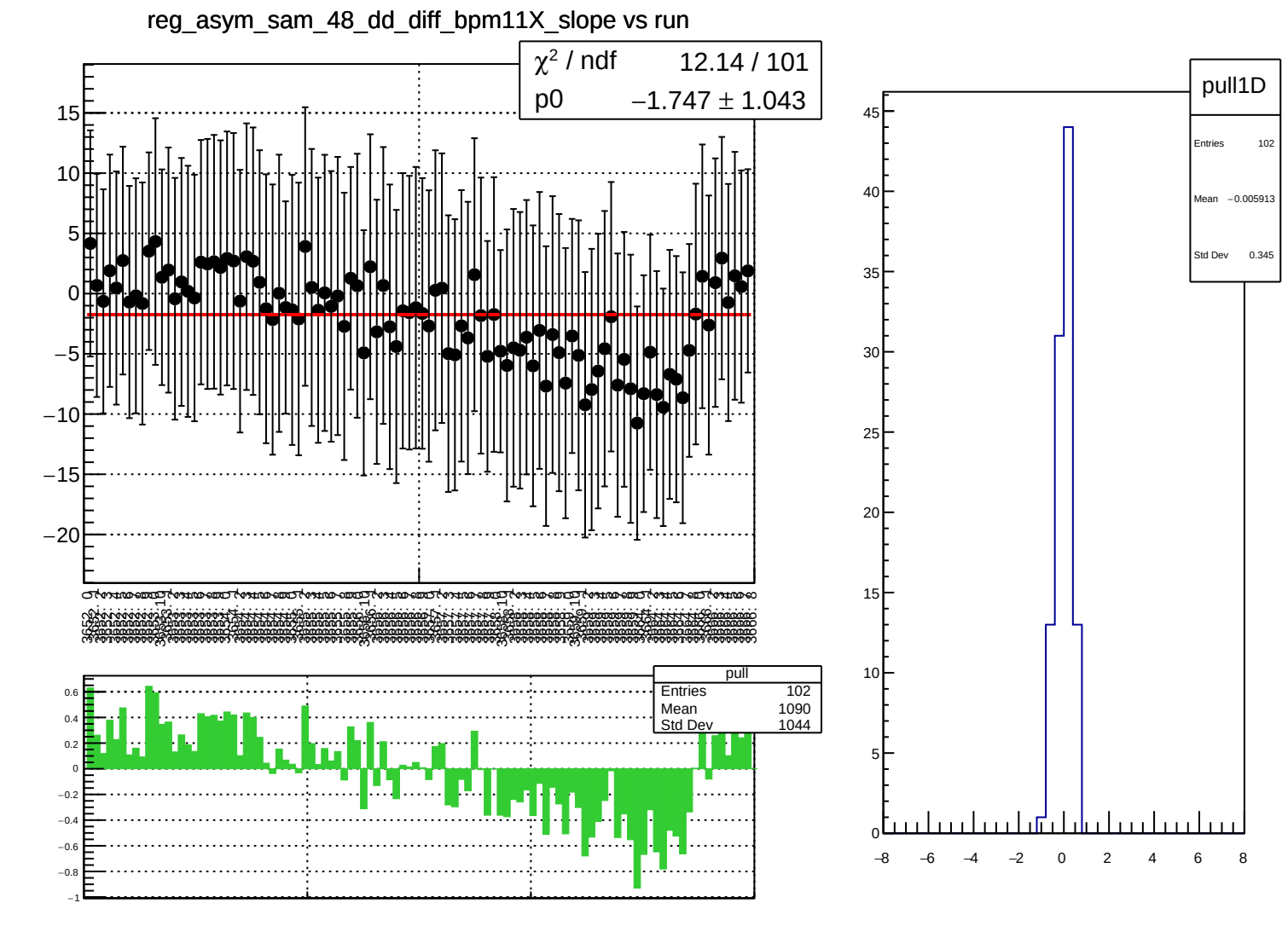

reg_asym_sam_48_dd_diff_bpm4aY_slope vs run
χ² / ndf 4.795 / 101
p0 130.1 ± 3.048
180
160
140
120
100
80
pull
Entries 102
Mean 803.4
Std Dev 750
0.4
0.2
0
−0.2
−0.4
pull1D
Entries 102
Mean −0.002528
Std Dev 0.2168
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

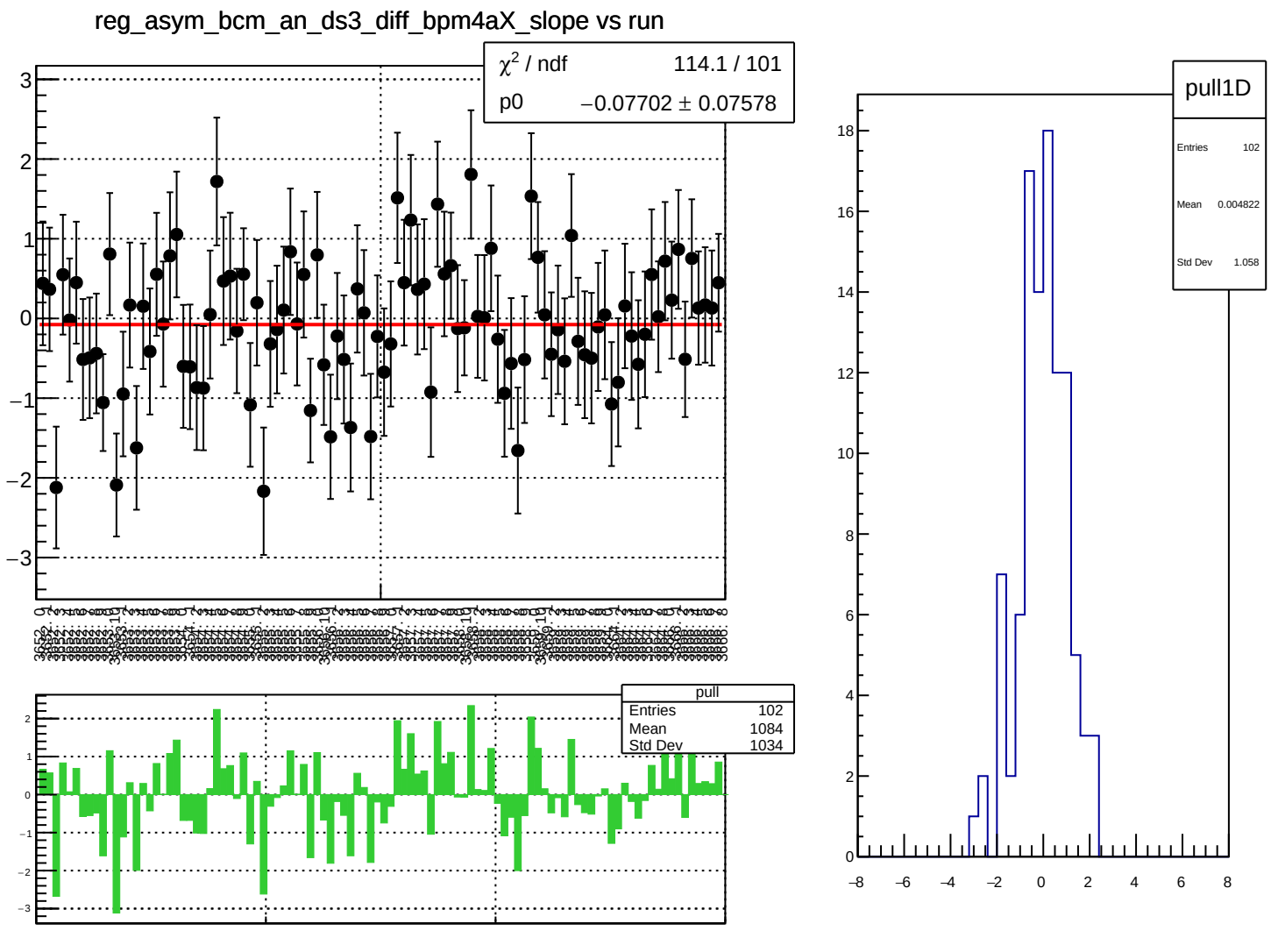

reg_asym_sam_48_dd_diff_bpm4eX_slope vs run
χ² / ndf 17.22 / 101
p0 −360.5 ± 0.8114
−345
−350
−355
−360
−365
−370
−375
−380
pull
Entries 102
Mean −1111
Std Dev 1165
1
0.5
0
−0.5
−1

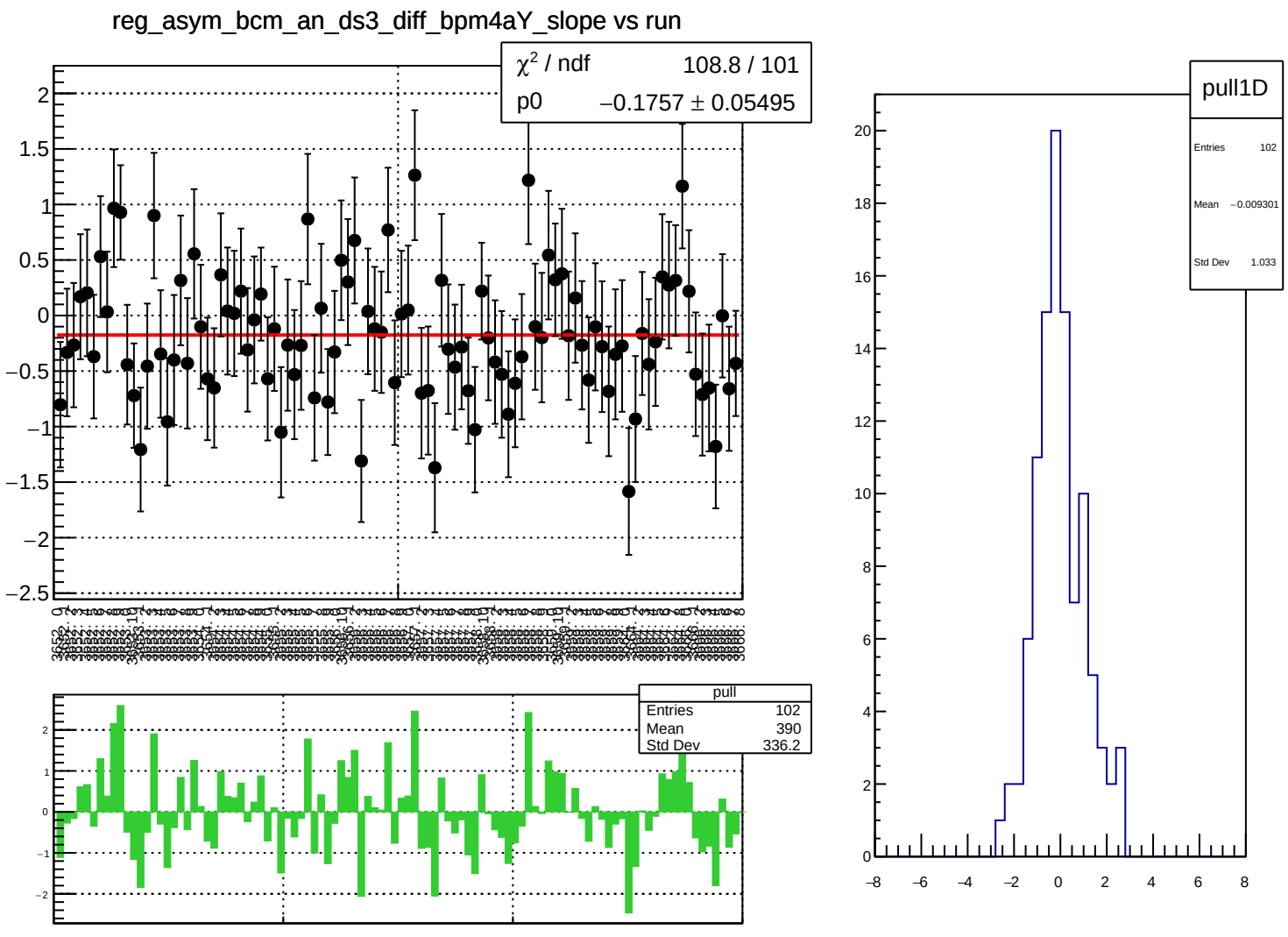

pull1D
Entries 102
Mean −0.004868
Std Dev 0.4108
35
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

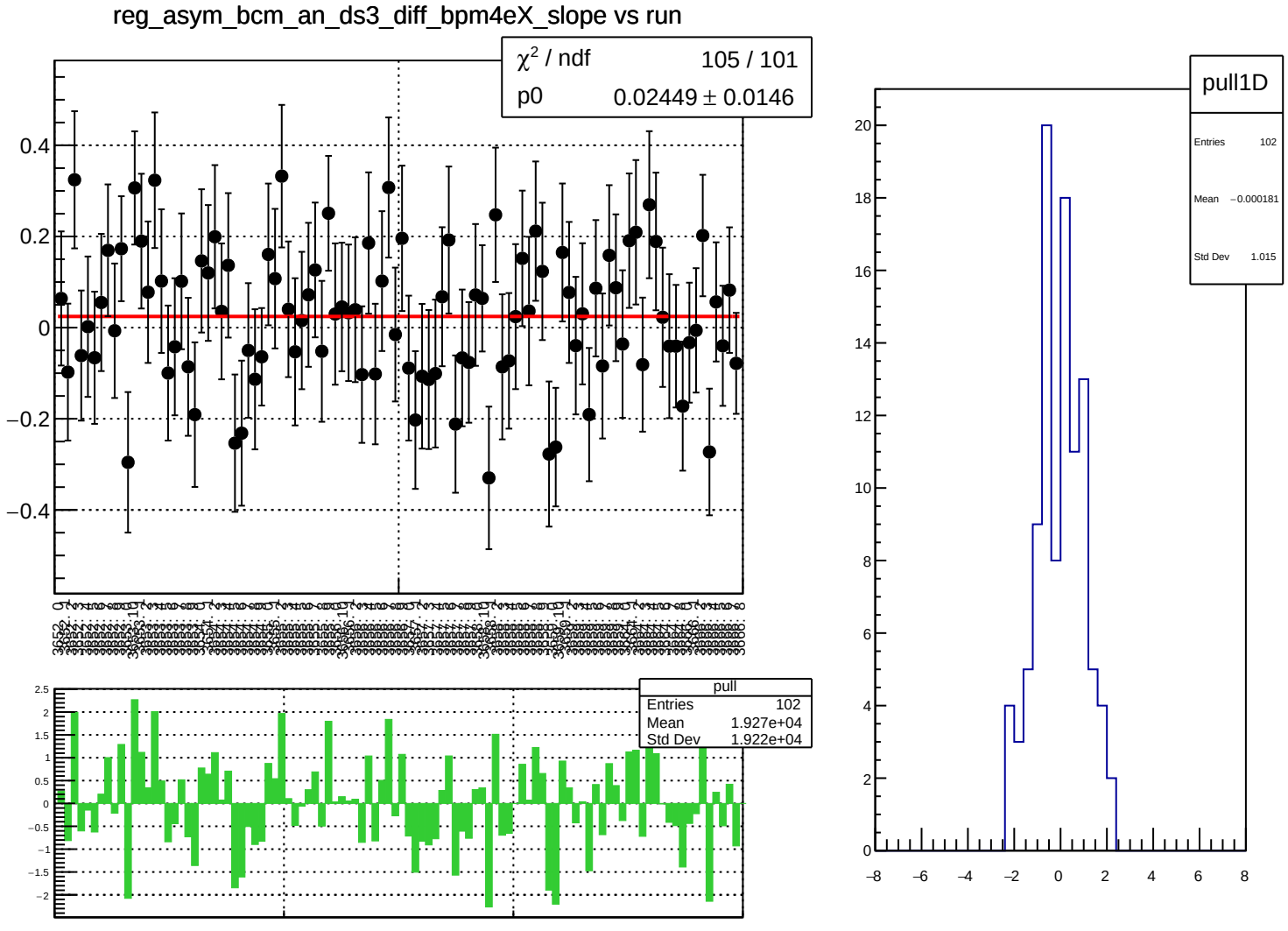

reg_asym_sam_48_dd_diff_bpm4eY_slope vs run
χ² / ndf 5.42 / 101
p0 79.6 ± 4.795
160
140
120
100
80
60
40
20
pull
Entries 102
Mean 1106
Std Dev 1053
0.6
0.4
0.2
0
−0.2
−0.4

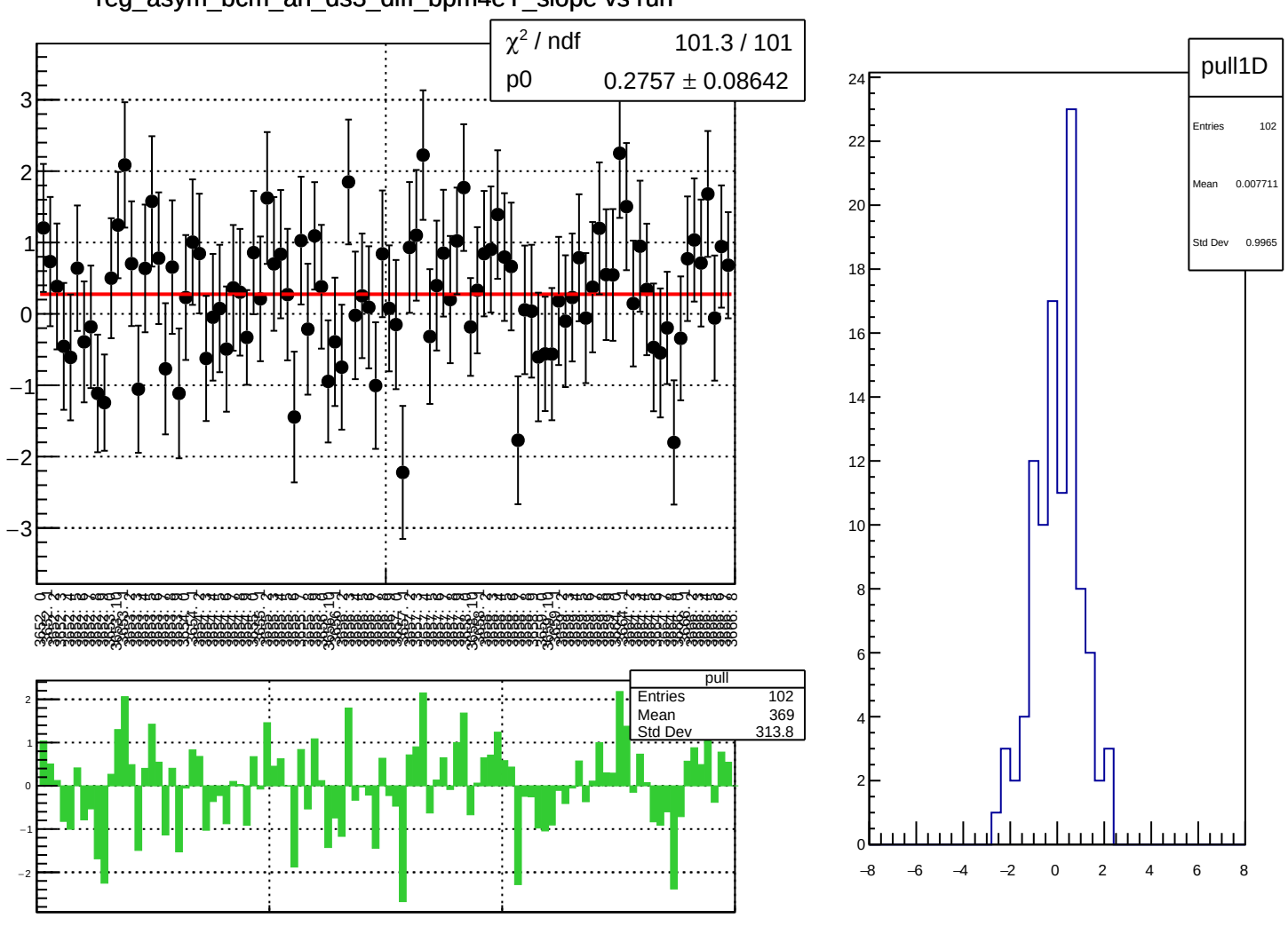

pull1D
Entries 102
Mean 0.001698
Std Dev 0.2305
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

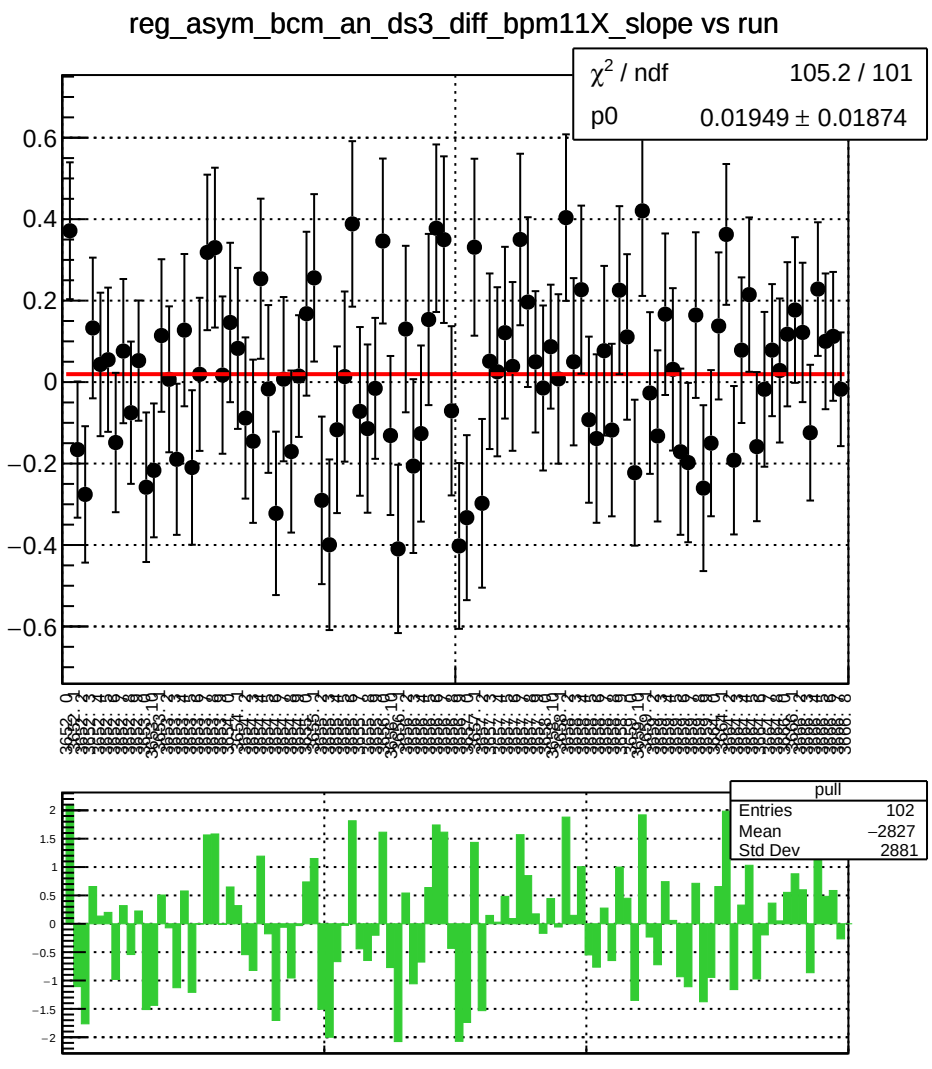

reg_asym_sam_48_dd_diff_bpm11X_slope vs run
χ² / ndf 12.14 / 101
p0 −1.747 ± 1.043
pull
Entries 102
Mean 1090
Std Dev 1044
pull1D
Entries 102
Mean −0.005913
Std Dev 0.345

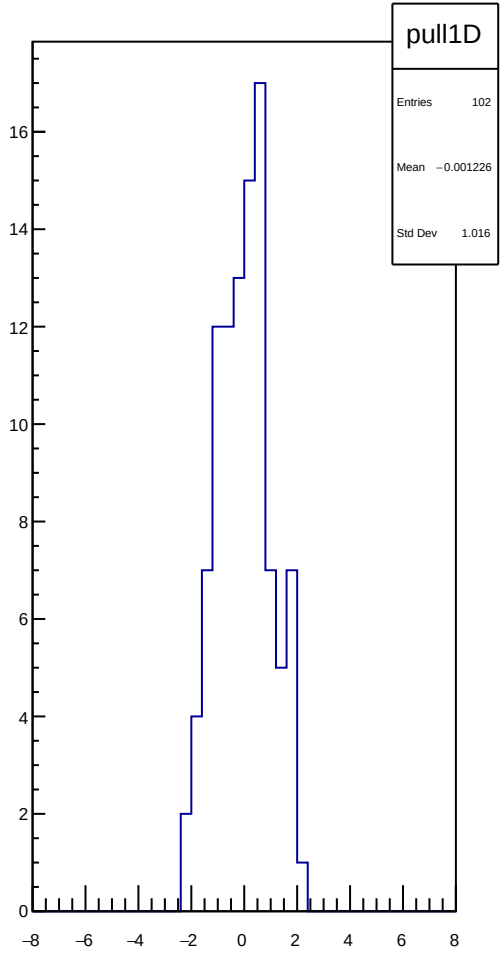

reg_asym_bcm_an_ds3_diff_bpm4aX_slope vs run
χ² / ndf 114.1 / 101
p0 −0.07702 ± 0.07578
pull
Entries 102
Mean 1084
Std Dev 1034
pull1D
Entries 102
Mean 0.004822
Std Dev 1.058

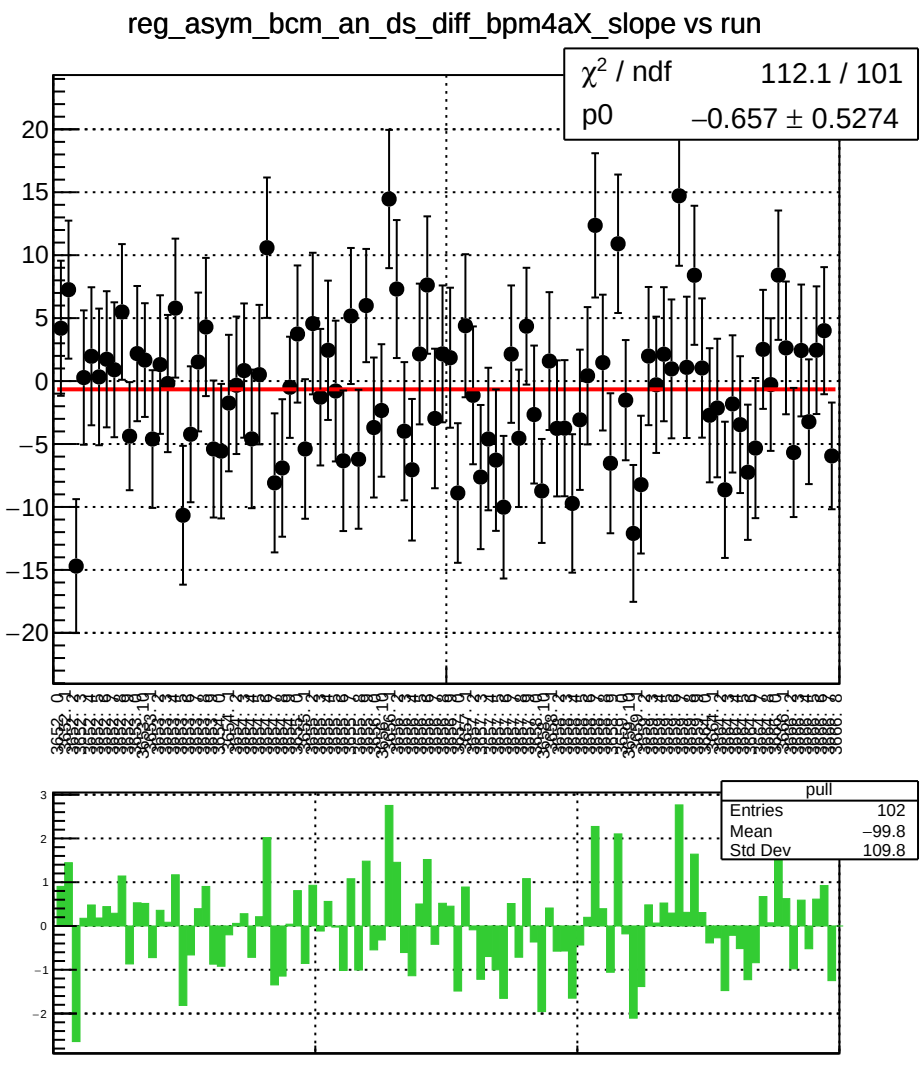

reg_asym_bcm_an_ds3_diff_bpm4aY_slope vs run
χ² / ndf 108.8 / 101
p0 −0.1757 ± 0.05495
pull
Entries 102
Mean 390
Std Dev 336.2
pull1D
Entries 102
Mean −0.009301
Std Dev 1.033

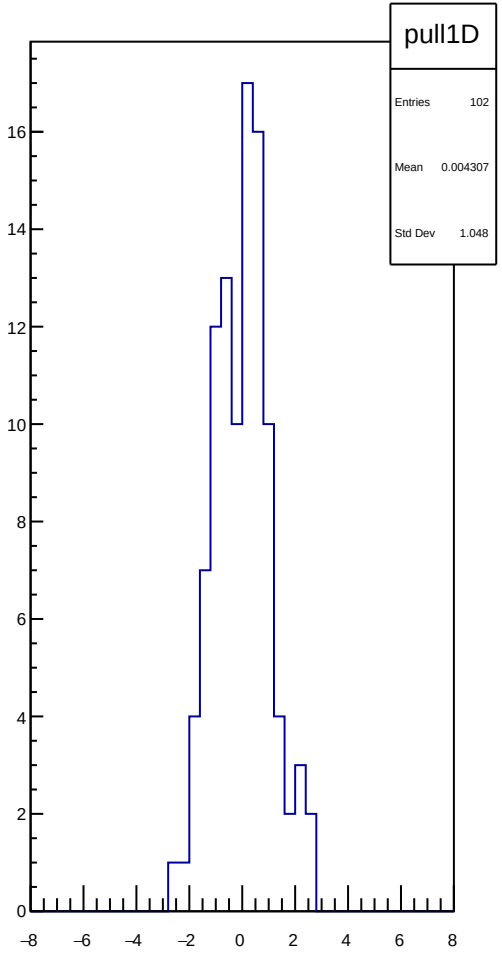

reg_asym_bcm_an_ds3_diff_bpm4eX_slope vs run
χ² / ndf 105 / 101
p0 0.02449 ± 0.0146
pull
Entries 102
Mean 1.927e+04
Std Dev 1.922e+04
pull1D
Entries 102
Mean −0.000181
Std Dev 1.015

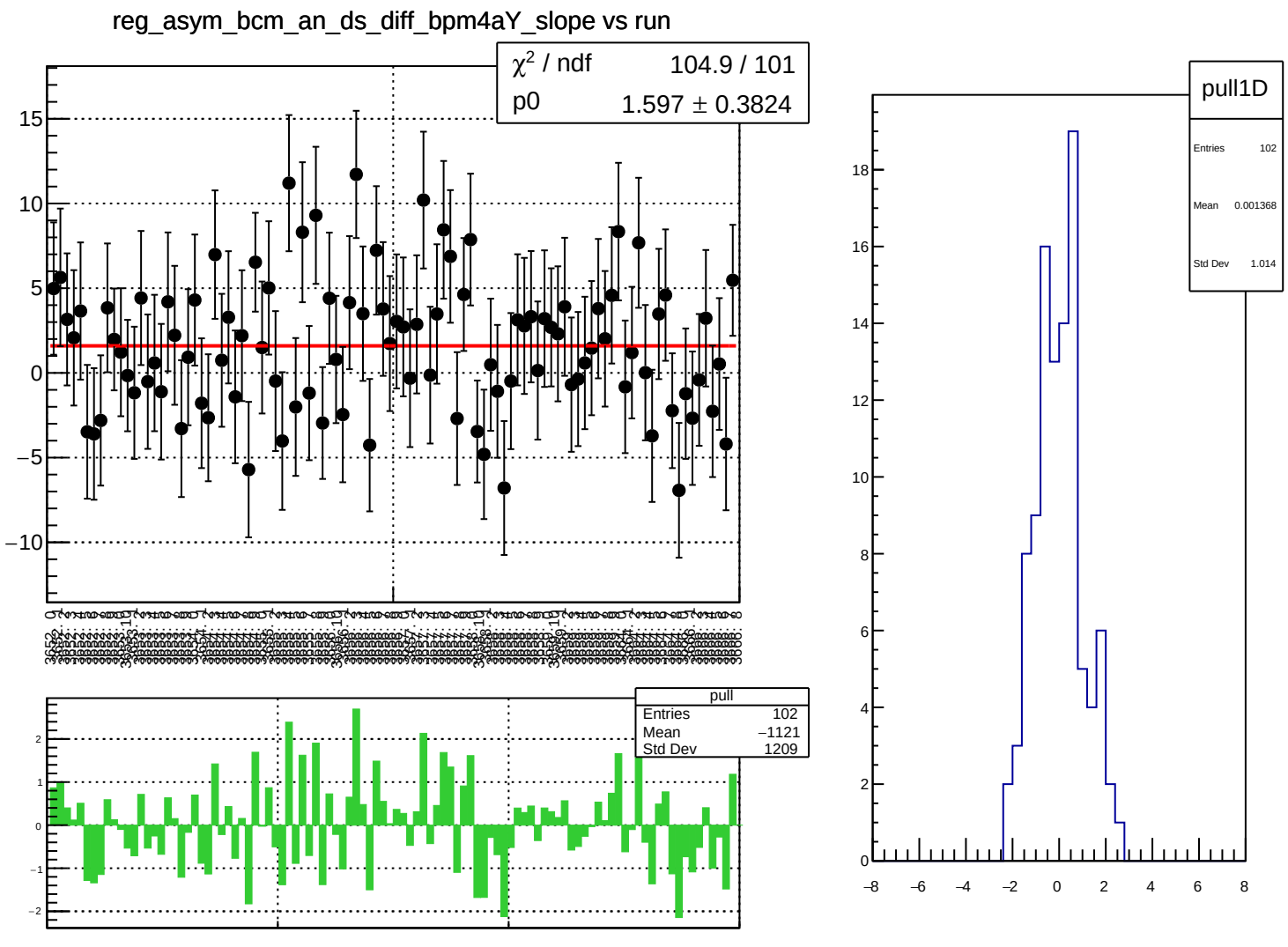

reg_asym_bcm_an_ds3_diff_bpm4eY_slope vs run
χ² / ndf 101.3 / 101
p0 0.2757 ± 0.08642
pull
Entries 102
Mean 369
Std Dev 313.8
pull1D
Entries 102
Mean 0.007711
Std Dev 0.9965

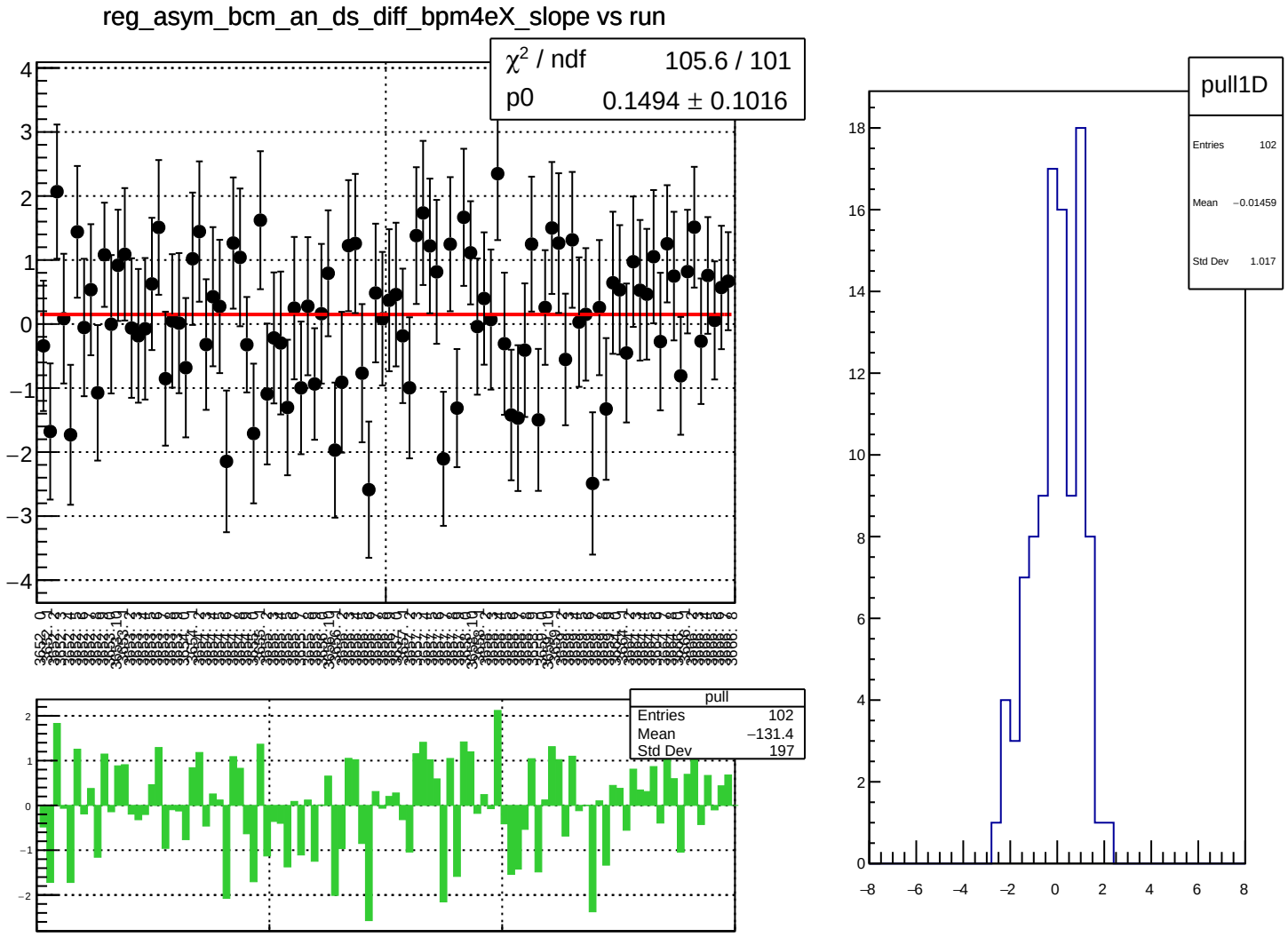

reg_asym_bcm_an_ds3_diff_bpm11X_slope vs run
χ² / ndf 105.2 / 101
p0 0.01949 ± 0.01874
pull
Entries 102
Mean −2827
Std Dev 2881

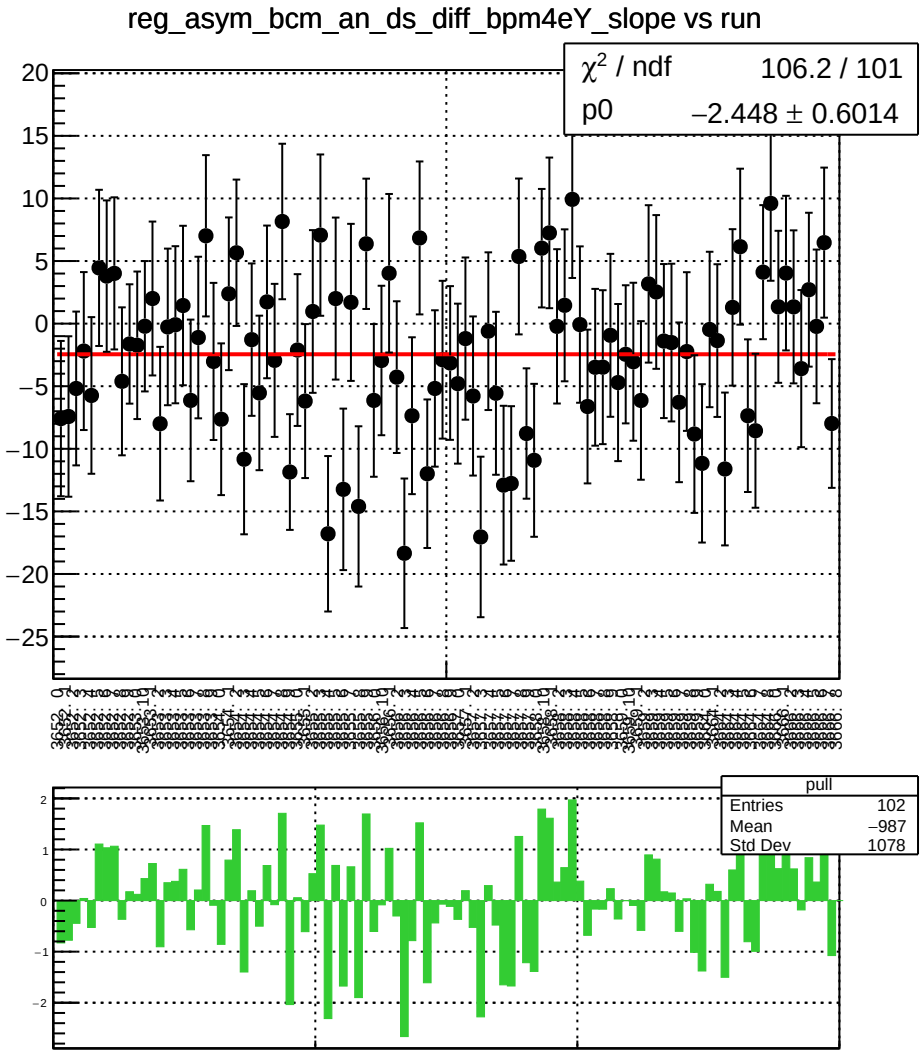

pull1D
Entries 102
Mean −0.001226
Std Dev 1.016

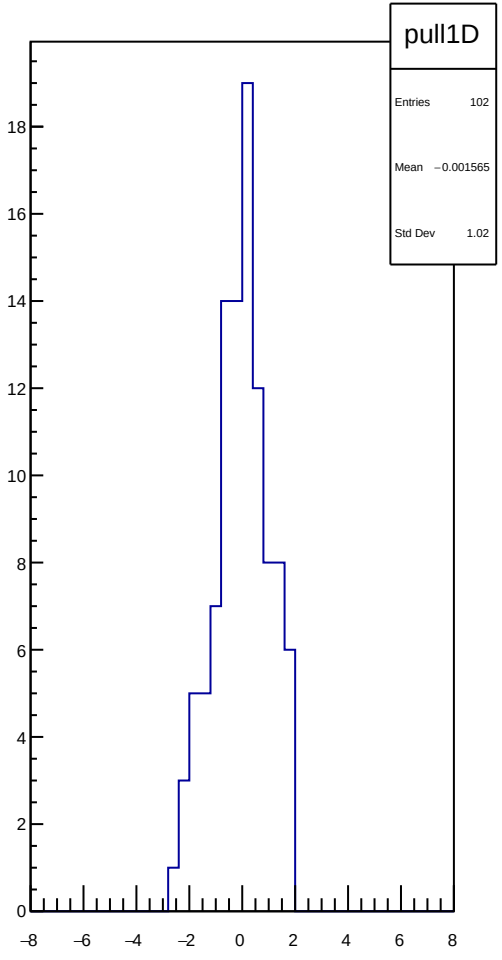

reg_asym_bcm_an_ds_diff_bpm4aX_slope vs run
χ² / ndf 112.1 / 101
p0 −0.657 ± 0.5274
pull
Entries 102
Mean −99.8
Std Dev 109.8

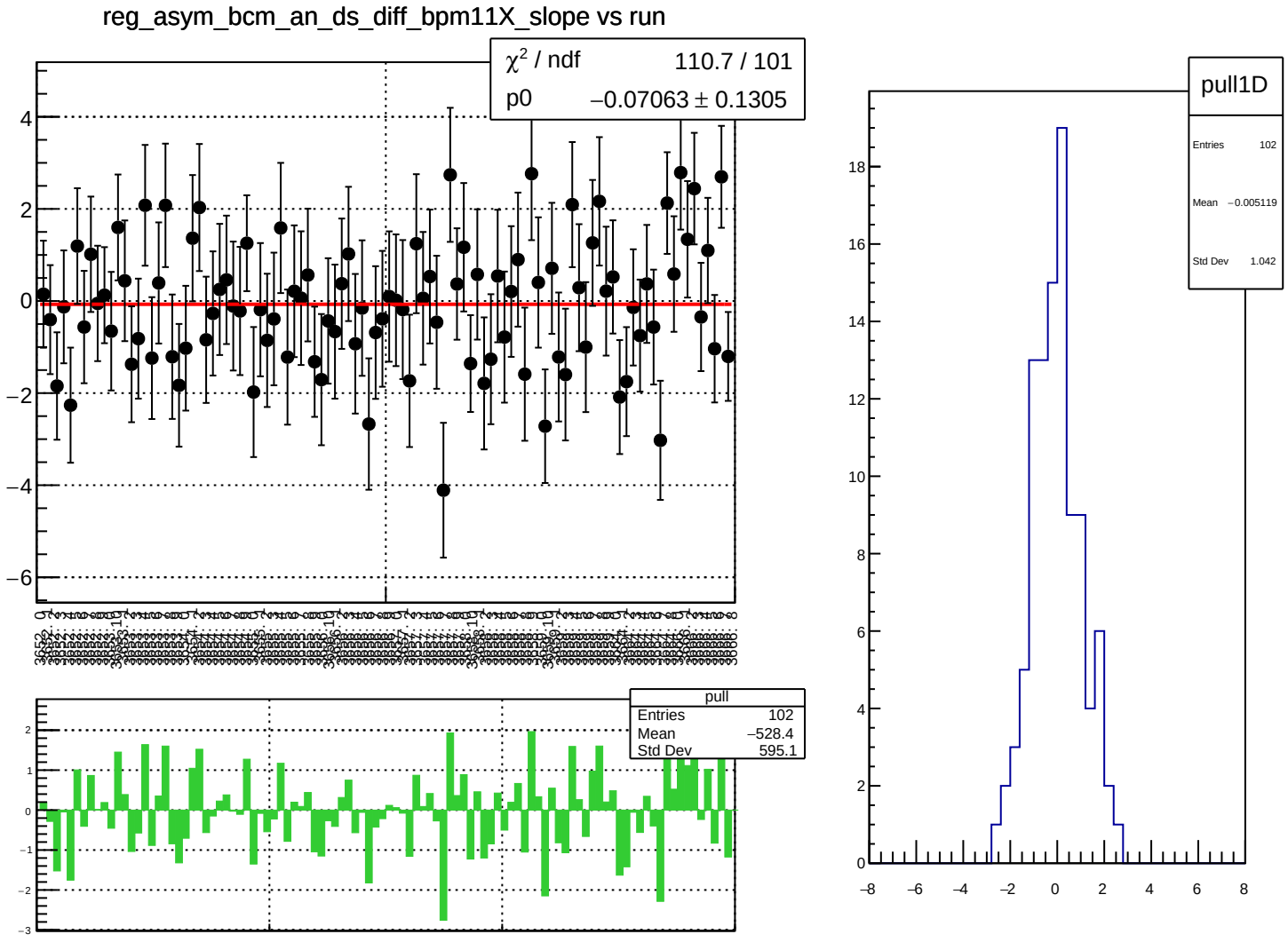

pull1D
Entries 102
Mean 0.004307
Std Dev 1.048

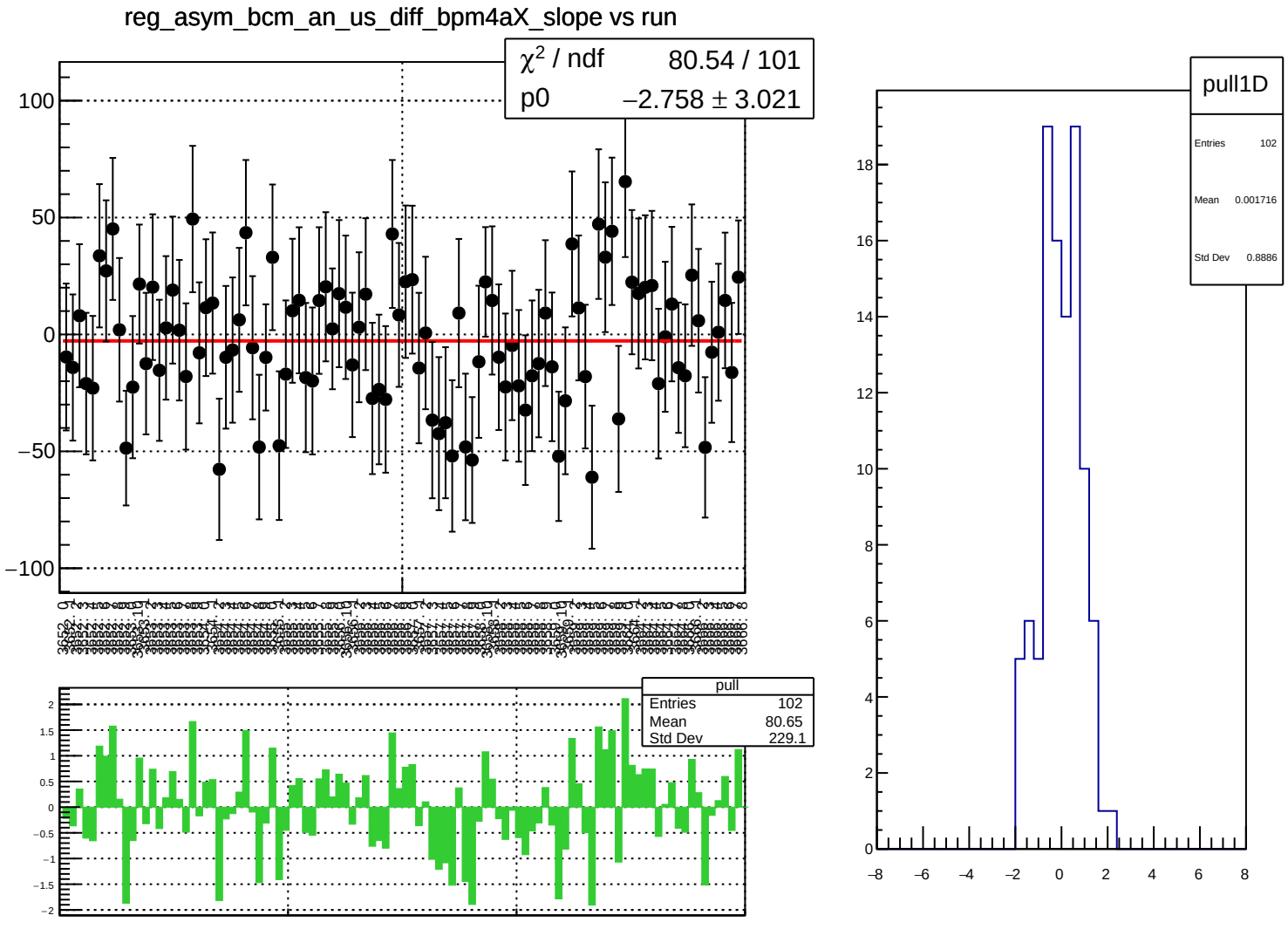

reg_asym_bcm_an_ds_diff_bpm4aY_slope vs run
χ² / ndf 104.9 / 101
p0 1.597 ± 0.3824
pull
Entries 102
Mean −1121
Std Dev 1209
pull1D
Entries 102
Mean 0.001368
Std Dev 1.014

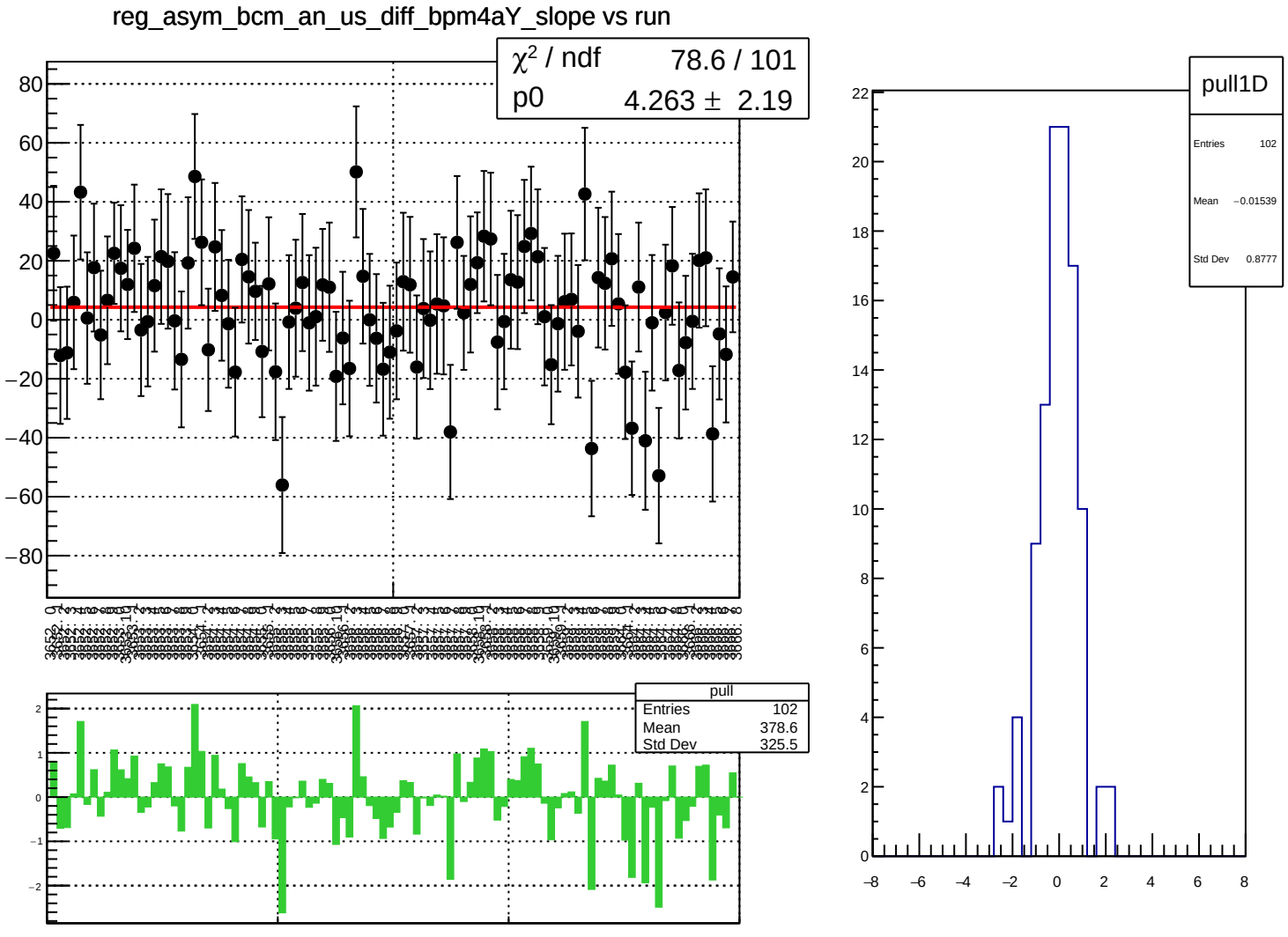

reg_asym_bcm_an_ds_diff_bpm4eX_slope vs run
χ² / ndf 105.6 / 101
p0 0.1494 ± 0.1016
pull
Entries 102
Mean −131.4
Std Dev 197
pull1D
Entries 102
Mean −0.01459
Std Dev 1.017

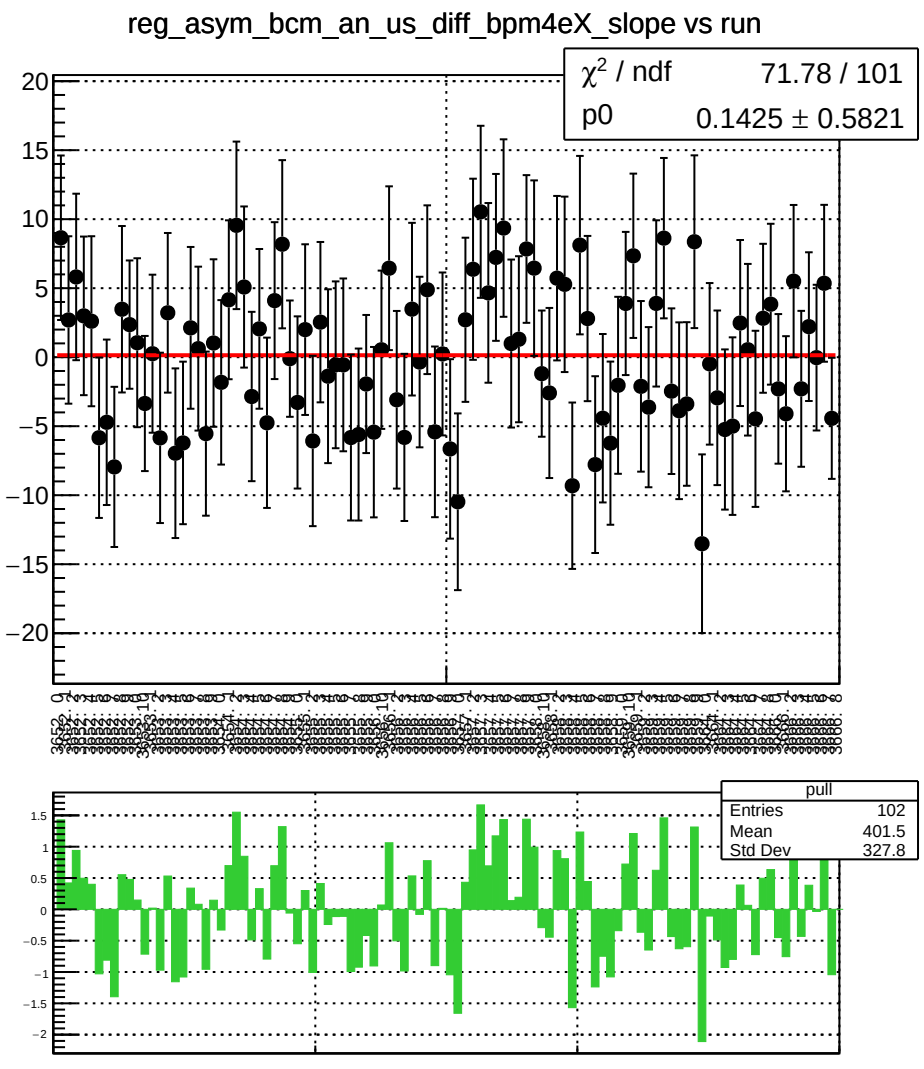

reg_asym_bcm_an_ds_diff_bpm4eY_slope vs run
χ² / ndf 106.2 / 101
p0 −2.448 ± 0.6014
pull
Entries 102
Mean −987
Std Dev 1078

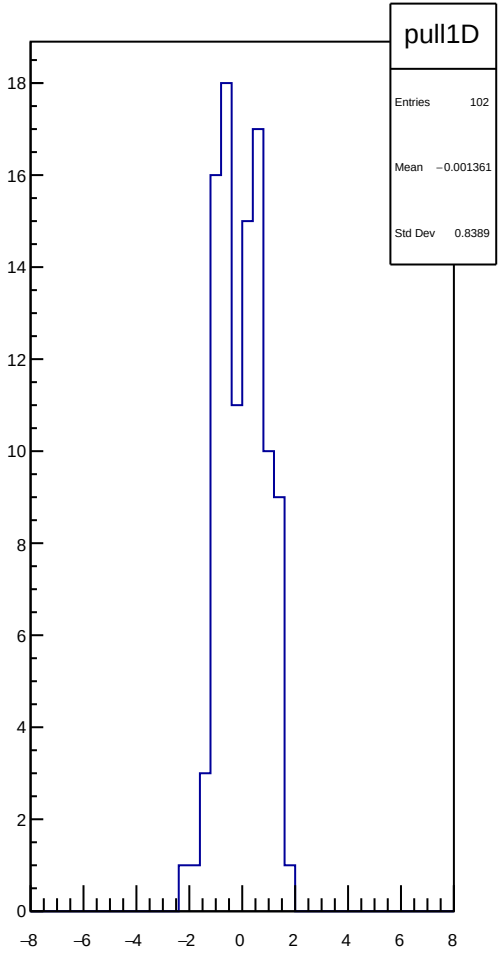

pull1D
Entries 102
Mean −0.001565
Std Dev 1.02

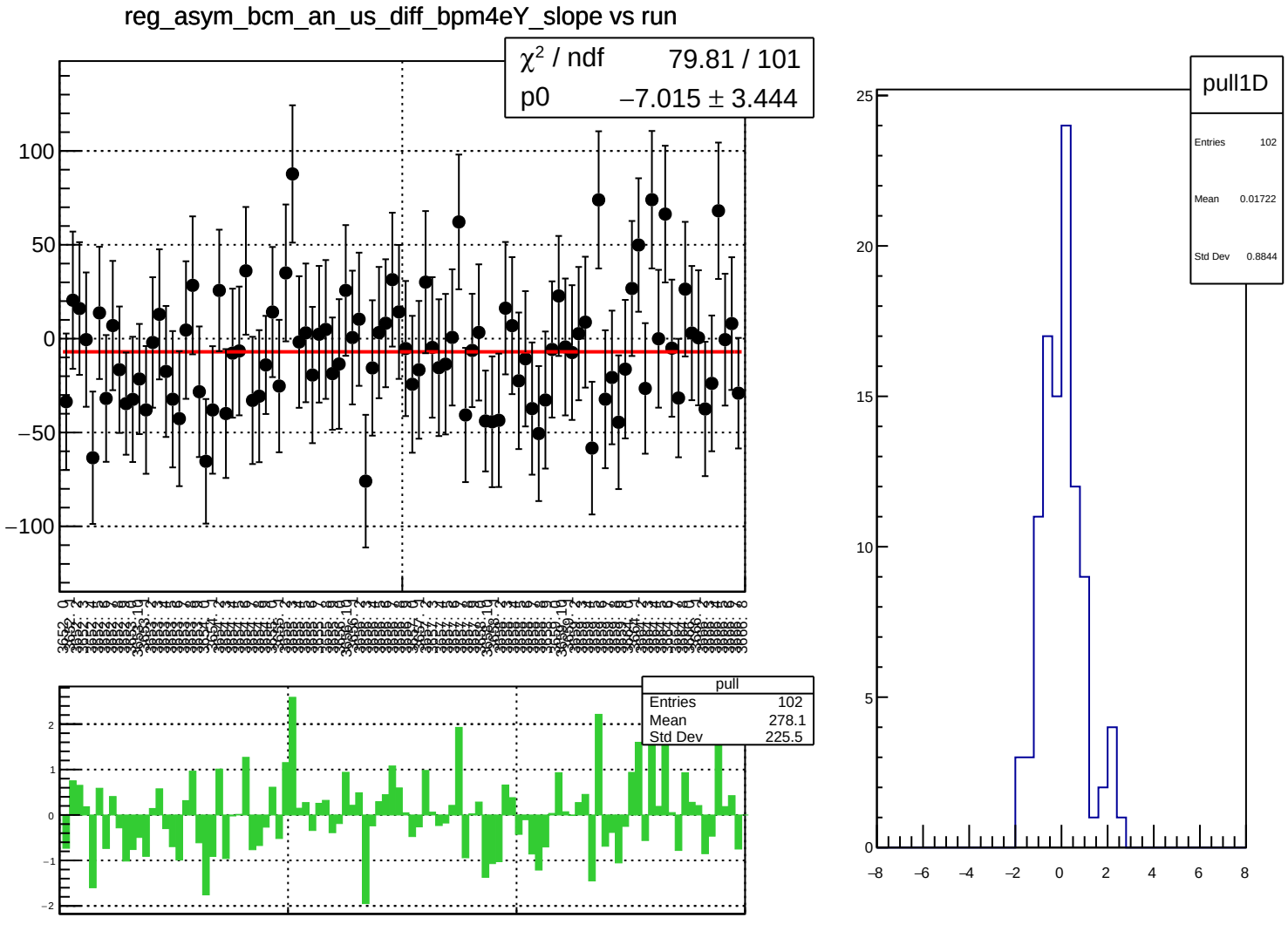

reg_asym_bcm_an_ds_diff_bpm11X_slope vs run
χ² / ndf 110.7 / 101
p0 −0.07063 ± 0.1305
pull
Entries 102
Mean −528.4
Std Dev 595.1
pull1D
Entries 102
Mean −0.005119
Std Dev 1.042

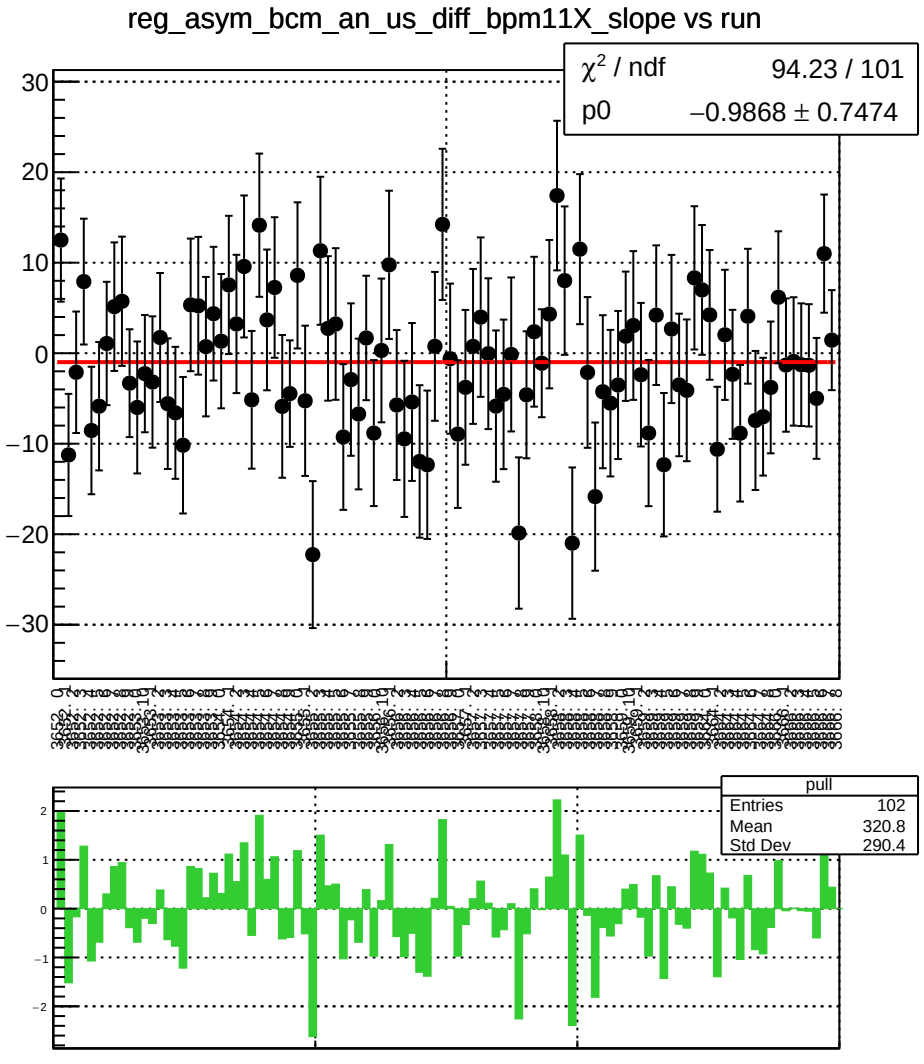

reg_asym_bcm_an_us_diff_bpm4aX_slope vs run
χ² / ndf 80.54 / 101
p0 −2.758 ± 3.021
100
50
0
−50
−100
pull
Entries 102
Mean 80.65
Std Dev 229.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 102
Mean 0.001716
Std Dev 0.8886
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

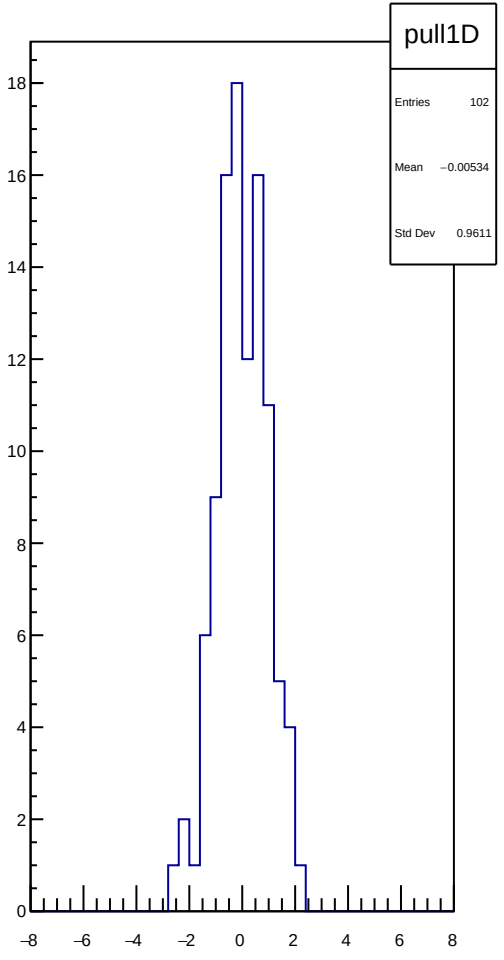

reg_asym_bcm_an_us_diff_bpm4aY_slope vs run
χ² / ndf 78.6 / 101
p0 4.263 ± 2.19
pull
Entries 102
Mean 378.6
Std Dev 325.5
pull1D
Entries 102
Mean −0.01539
Std Dev 0.8777

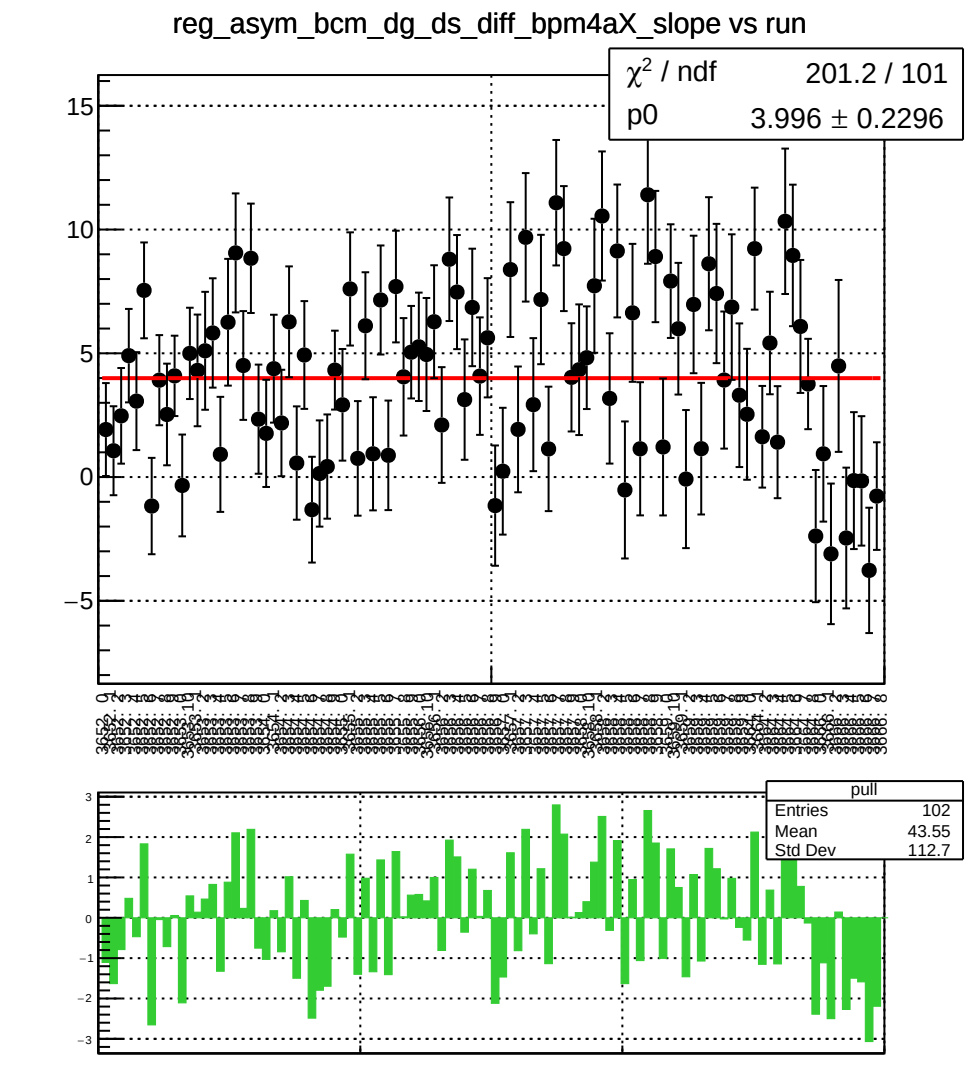

reg_asym_bcm_an_us_diff_bpm4eX_slope vs run
χ² / ndf 71.78 / 101
p0 0.1425 ± 0.5821
pull
Entries 102
Mean 401.5
Std Dev 327.8

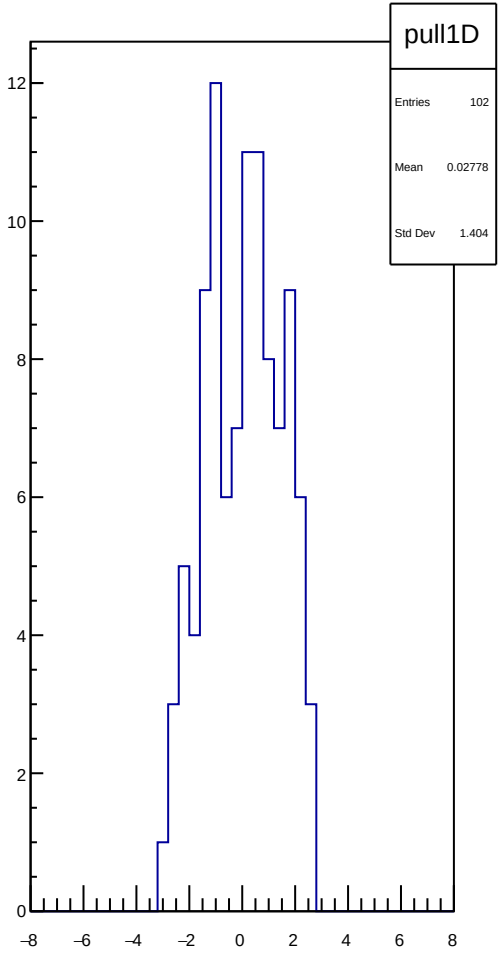

pull1D
Entries 102
Mean −0.001361
Std Dev 0.8389

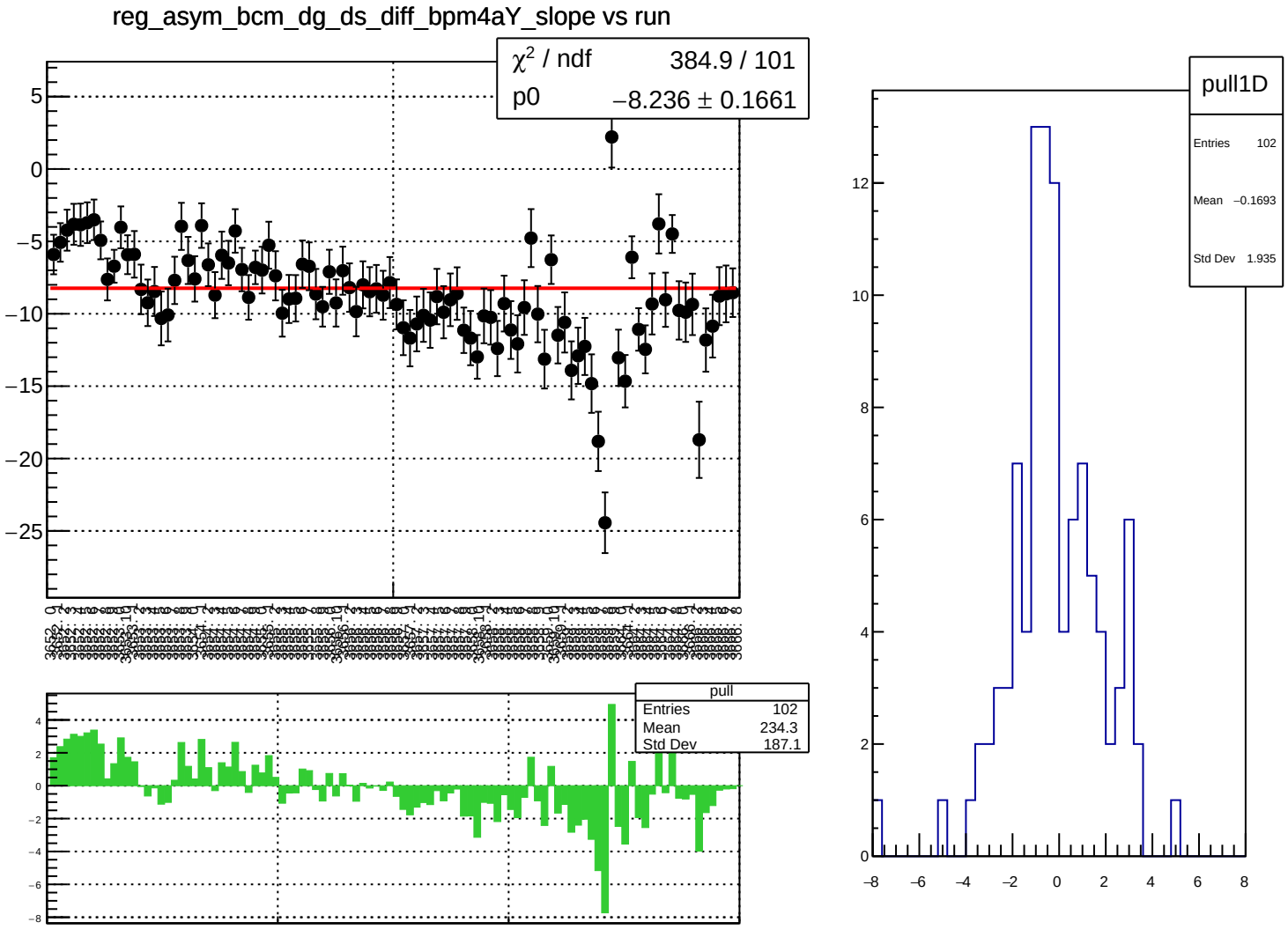

reg_asym_bcm_an_us_diff_bpm4eY_slope vs run
χ² / ndf 79.81 / 101
p0 −7.015 ± 3.444
100
50
0
−50
−100
pull
Entries 102
Mean 278.1
Std Dev 225.5
2
1
0
−1
−2
pull1D
Entries 102
Mean 0.01722
Std Dev 0.8844
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

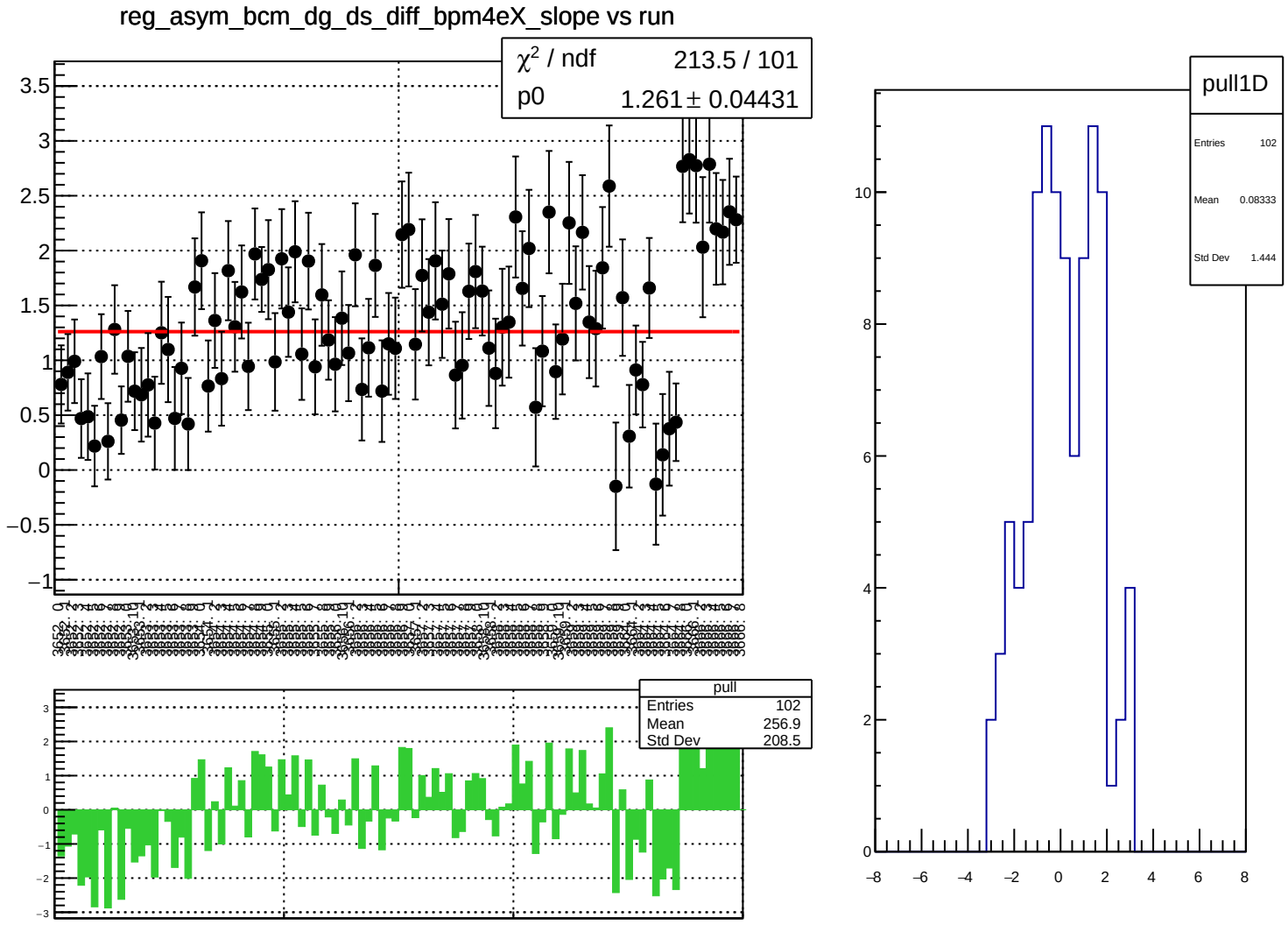

reg_asym_bcm_an_us_diff_bpm11X_slope vs run
χ² / ndf 94.23 / 101
p0 −0.9868 ± 0.7474
pull
Entries 102
Mean 320.8
Std Dev 290.4

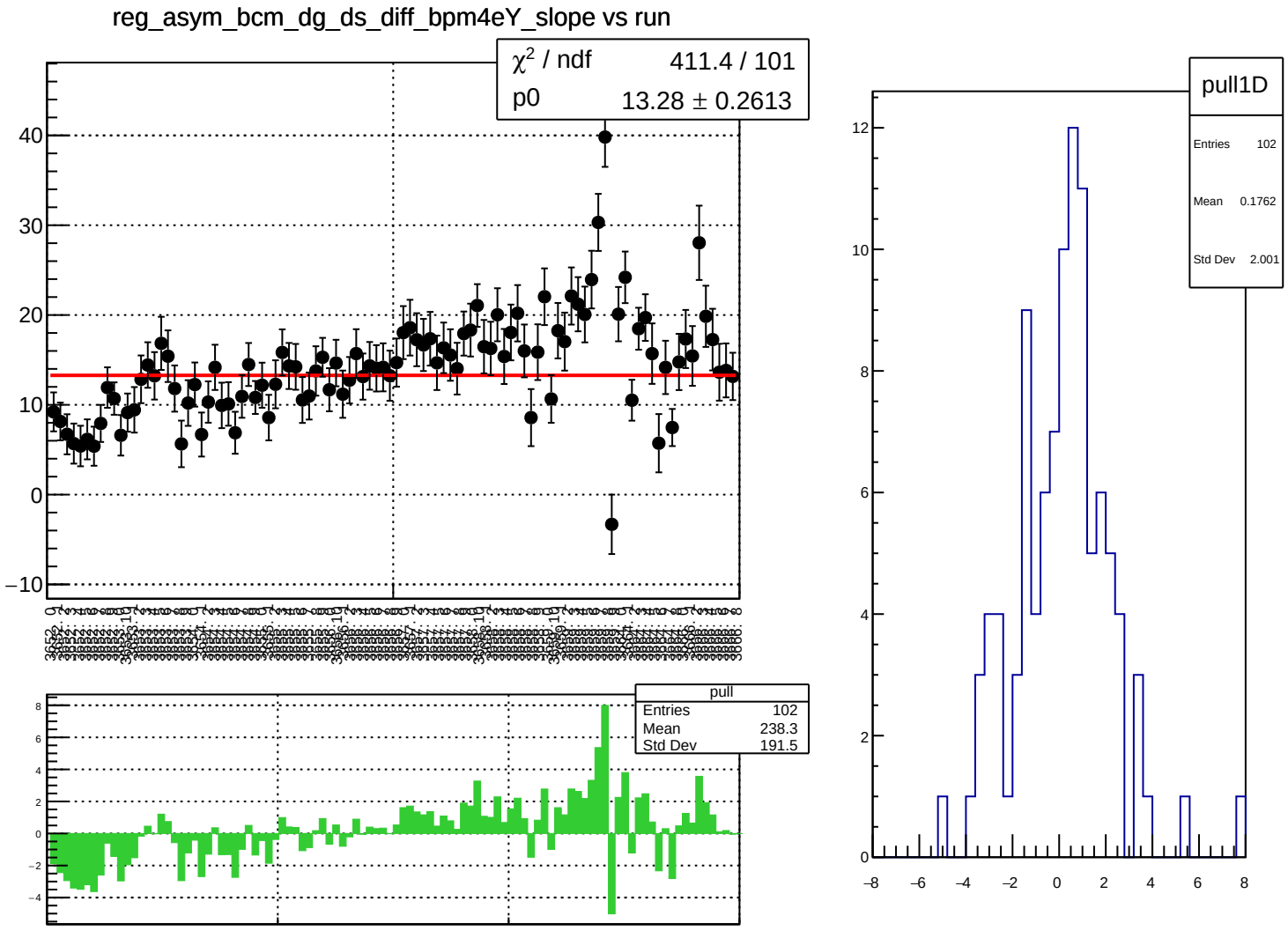

pull1D
Entries 102
Mean −0.00534
Std Dev 0.9611

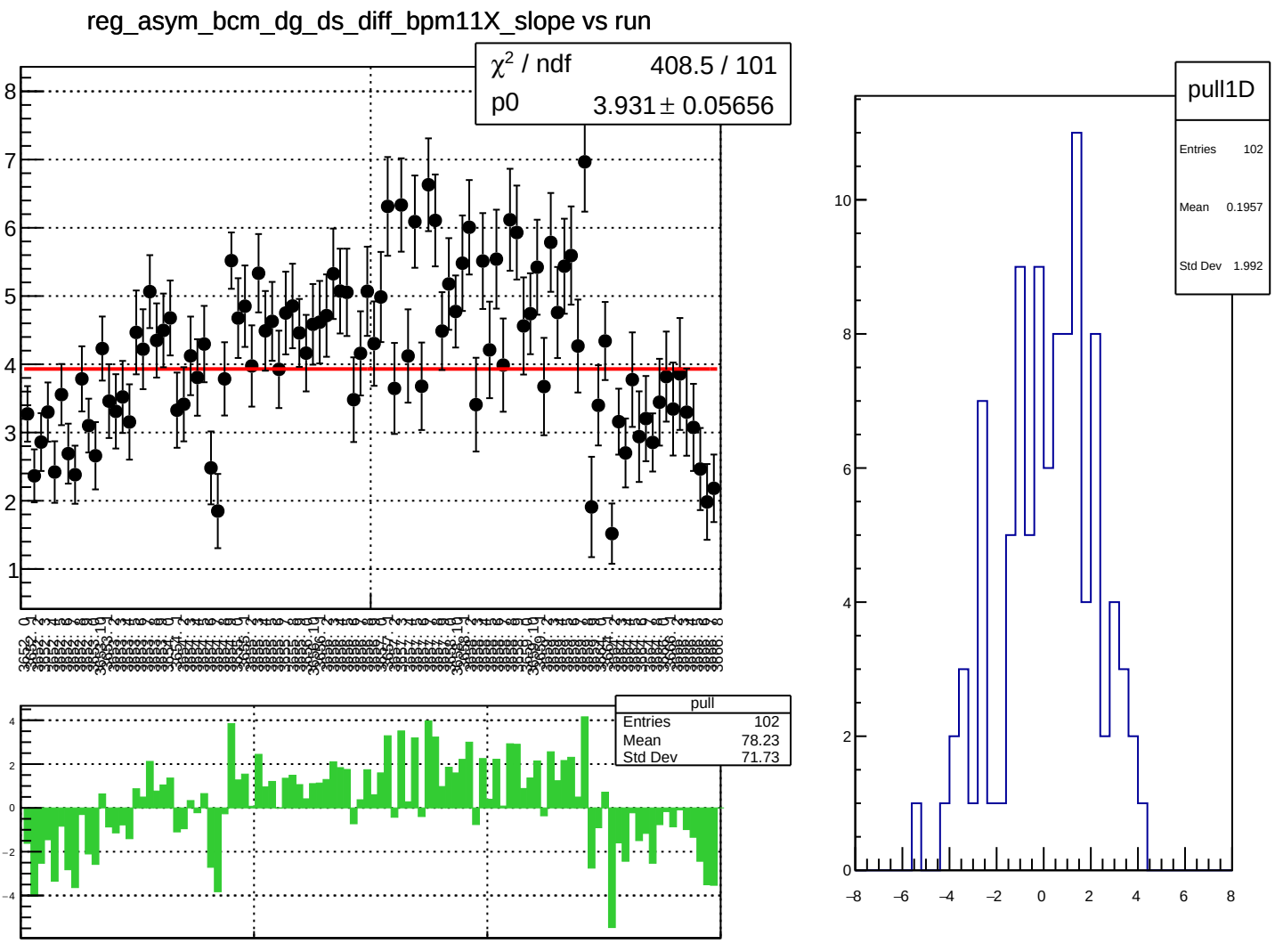

reg_asym_bcm_dg_ds_diff_bpm4aX_slope vs run
χ² / ndf 201.2 / 101
p0 3.996 ± 0.2296
pull
Entries 102
Mean 43.55
Std Dev 112.7

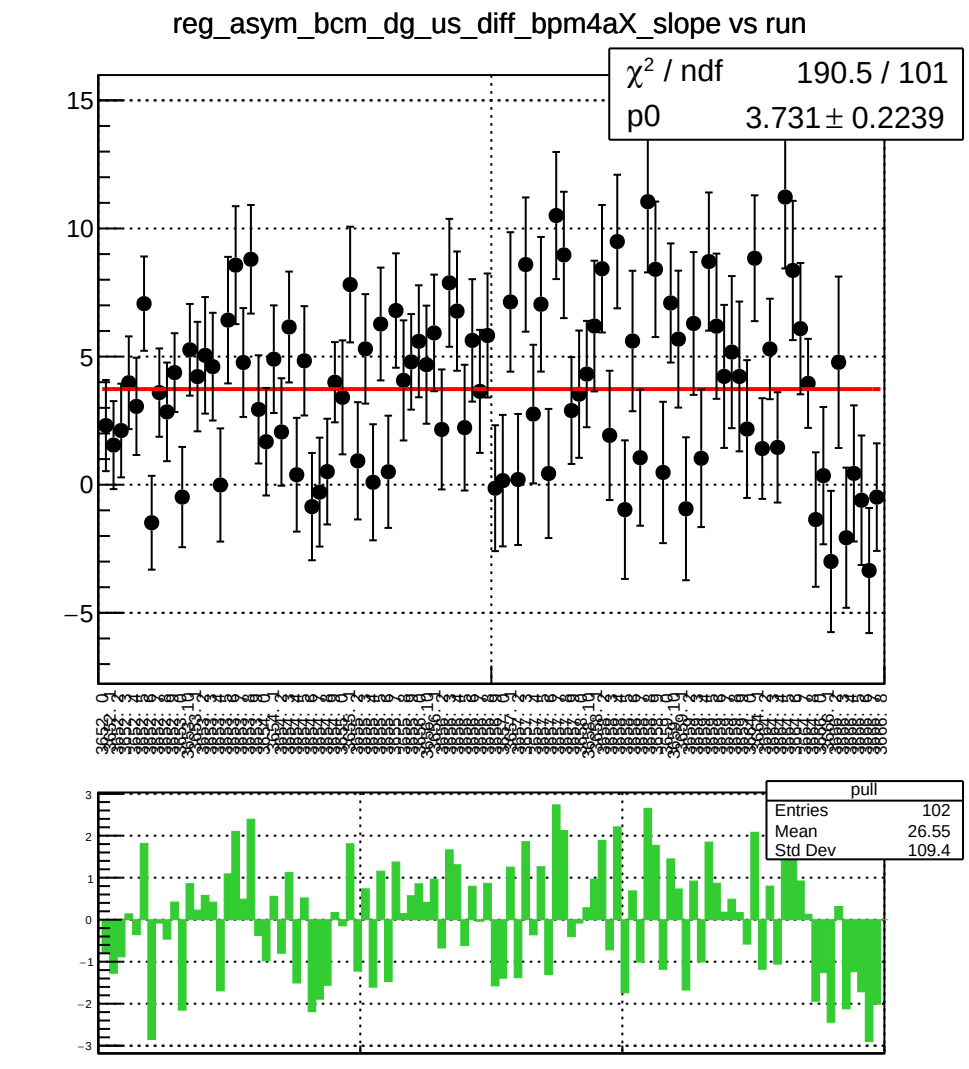

pull1D
Entries 102
Mean 0.02778
Std Dev 1.404

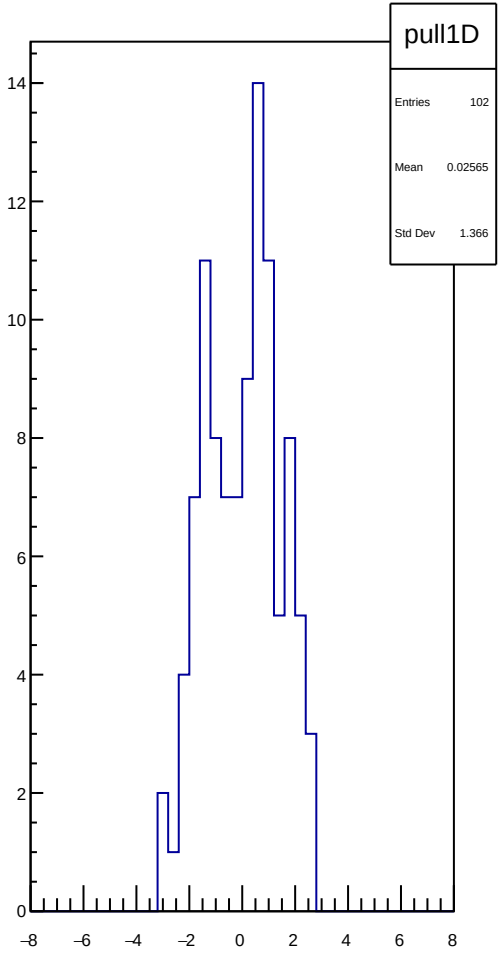

reg_asym_bcm_dg_ds_diff_bpm4aY_slope vs run
χ² / ndf 384.9 / 101
p0 −8.236 ± 0.1661
pull
Entries 102
Mean 234.3
Std Dev 187.1
pull1D
Entries 102
Mean −0.1693
Std Dev 1.935

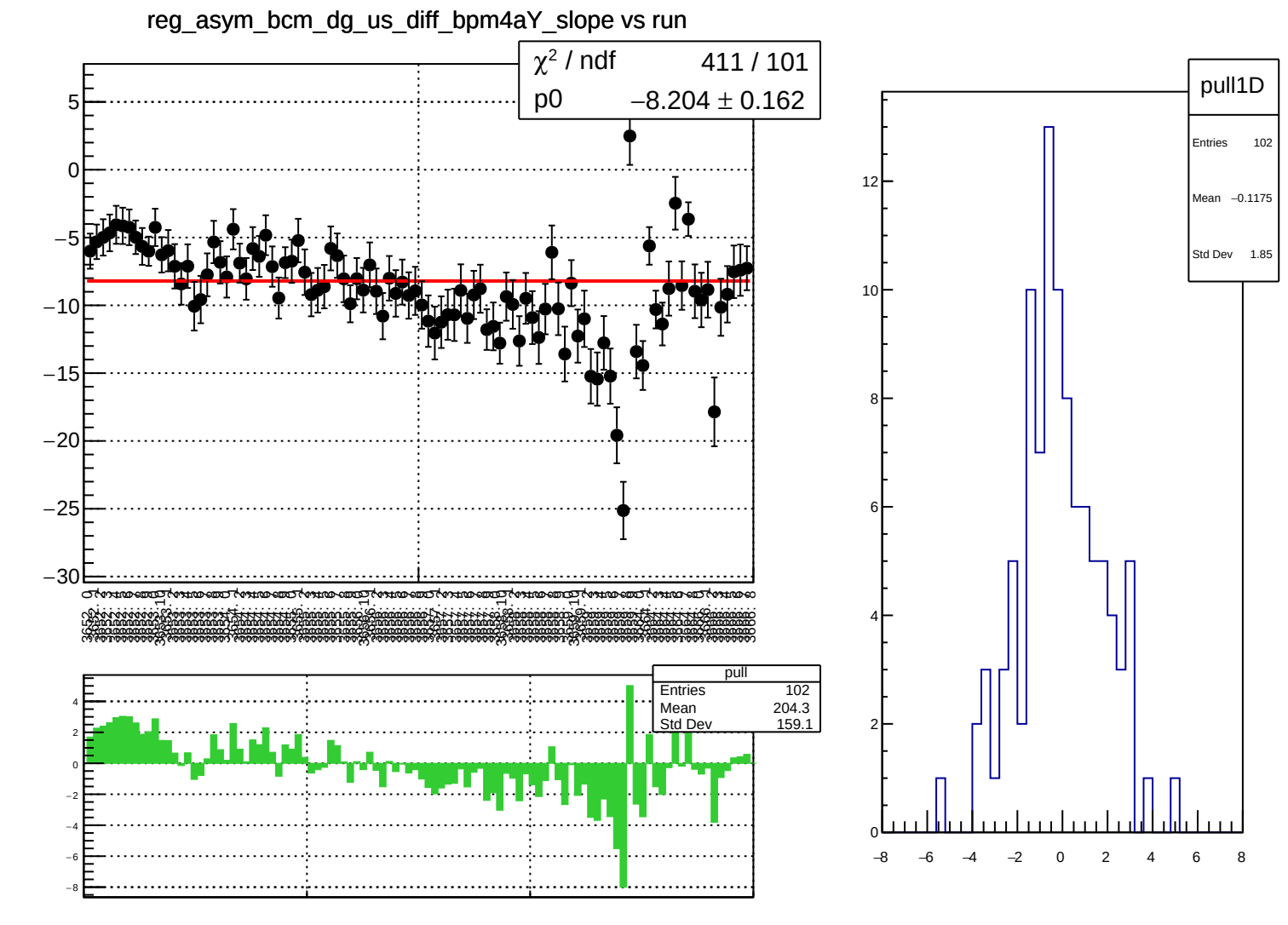

reg_asym_bcm_dg_ds_diff_bpm4eX_slope vs run
χ² / ndf 213.5 / 101
p0 1.261 ± 0.04431
pull
Entries 102
Mean 256.9
Std Dev 208.5
pull1D
Entries 102
Mean 0.08333
Std Dev 1.444

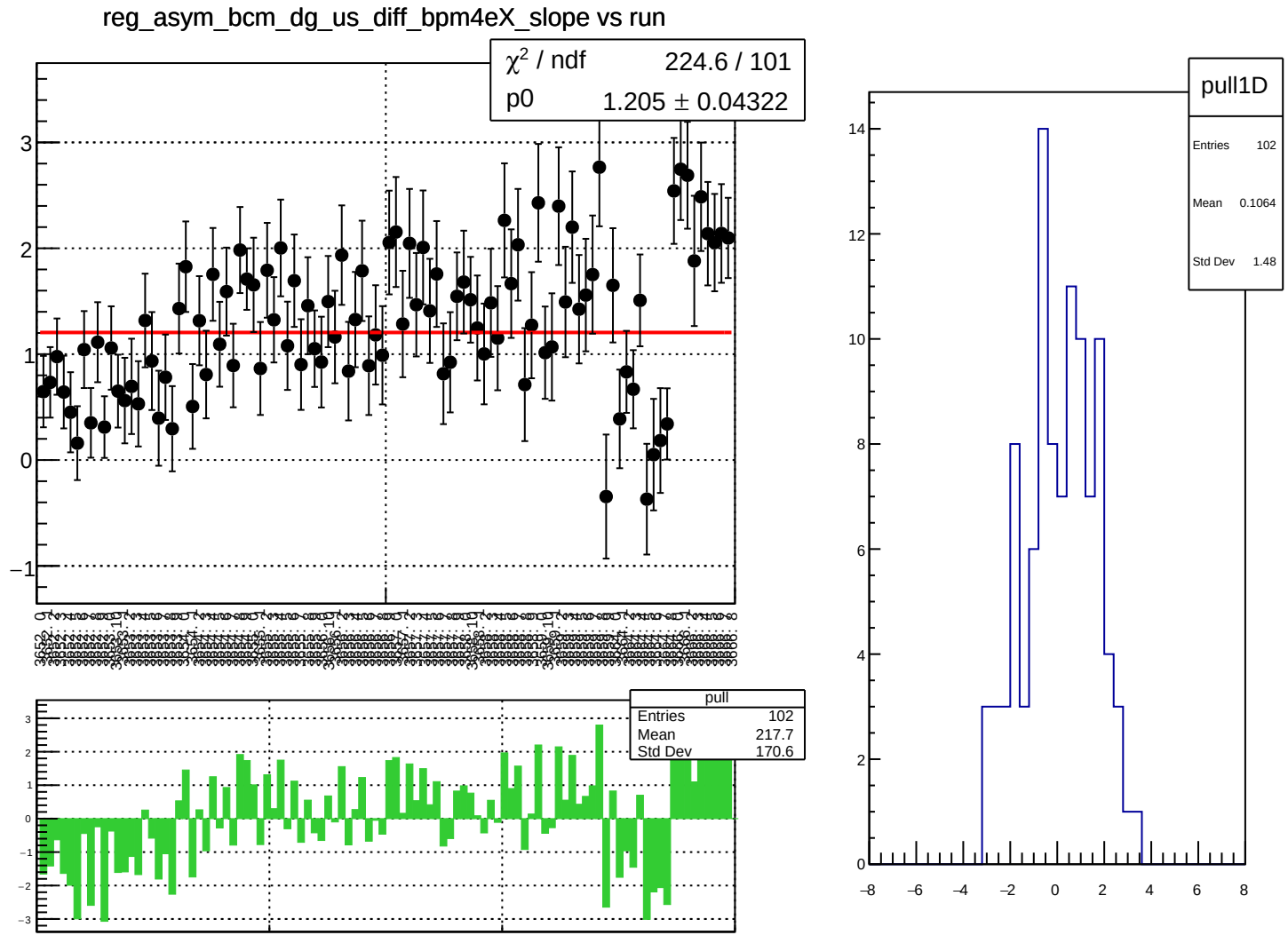

reg_asym_bcm_dg_ds_diff_bpm4eY_slope vs run
χ² / ndf 411.4 / 101
p0 13.28 ± 0.2613
pull
Entries 102
Mean 238.3
Std Dev 191.5
pull1D
Entries 102
Mean 0.1762
Std Dev 2.001

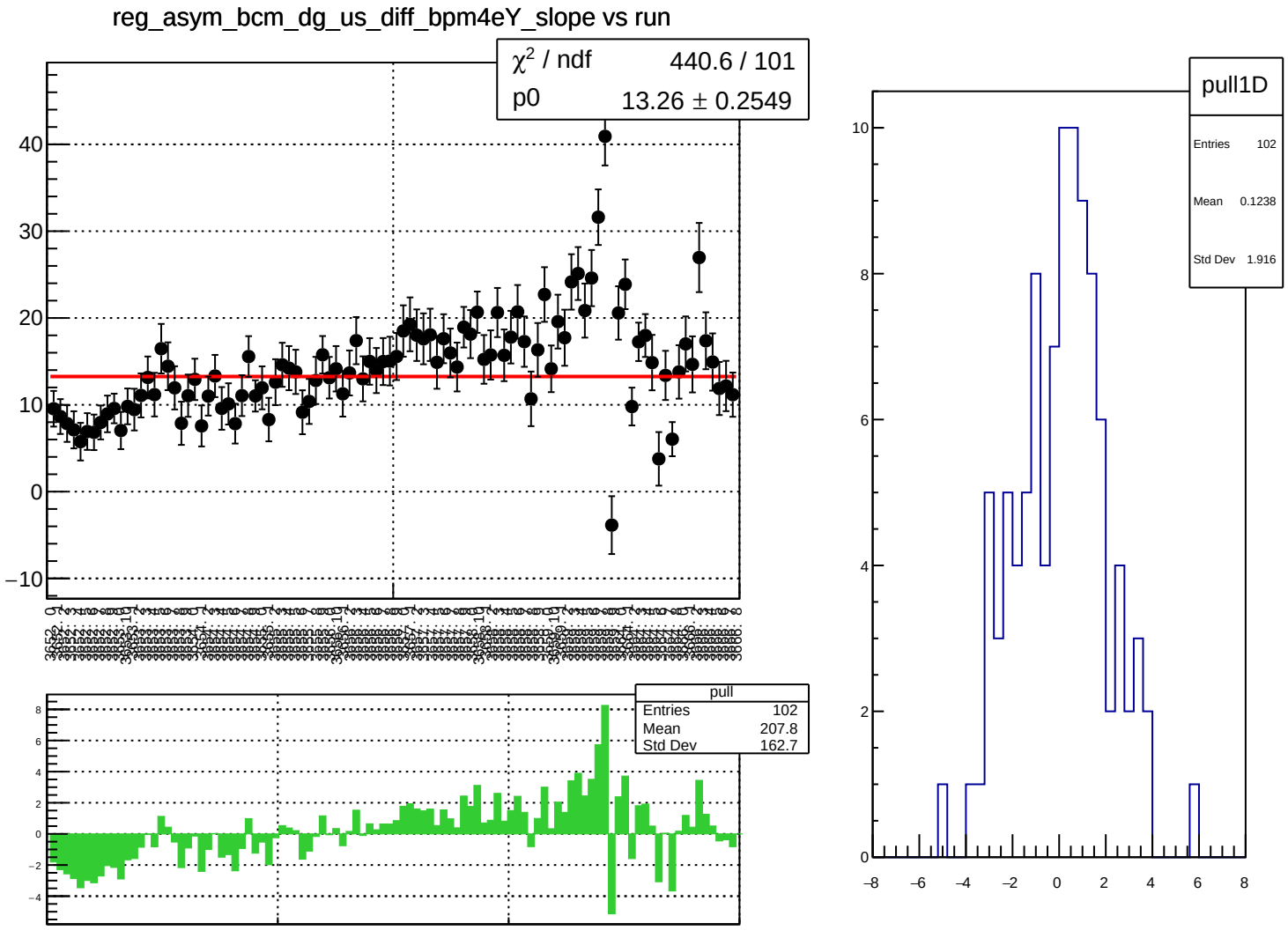

reg_asym_bcm_dg_ds_diff_bpm11X_slope vs run
χ² / ndf 408.5 / 101
p0 3.931 ± 0.05656
pull
Entries 102
Mean 78.23
Std Dev 71.73
pull1D
Entries 102
Mean 0.1957
Std Dev 1.992

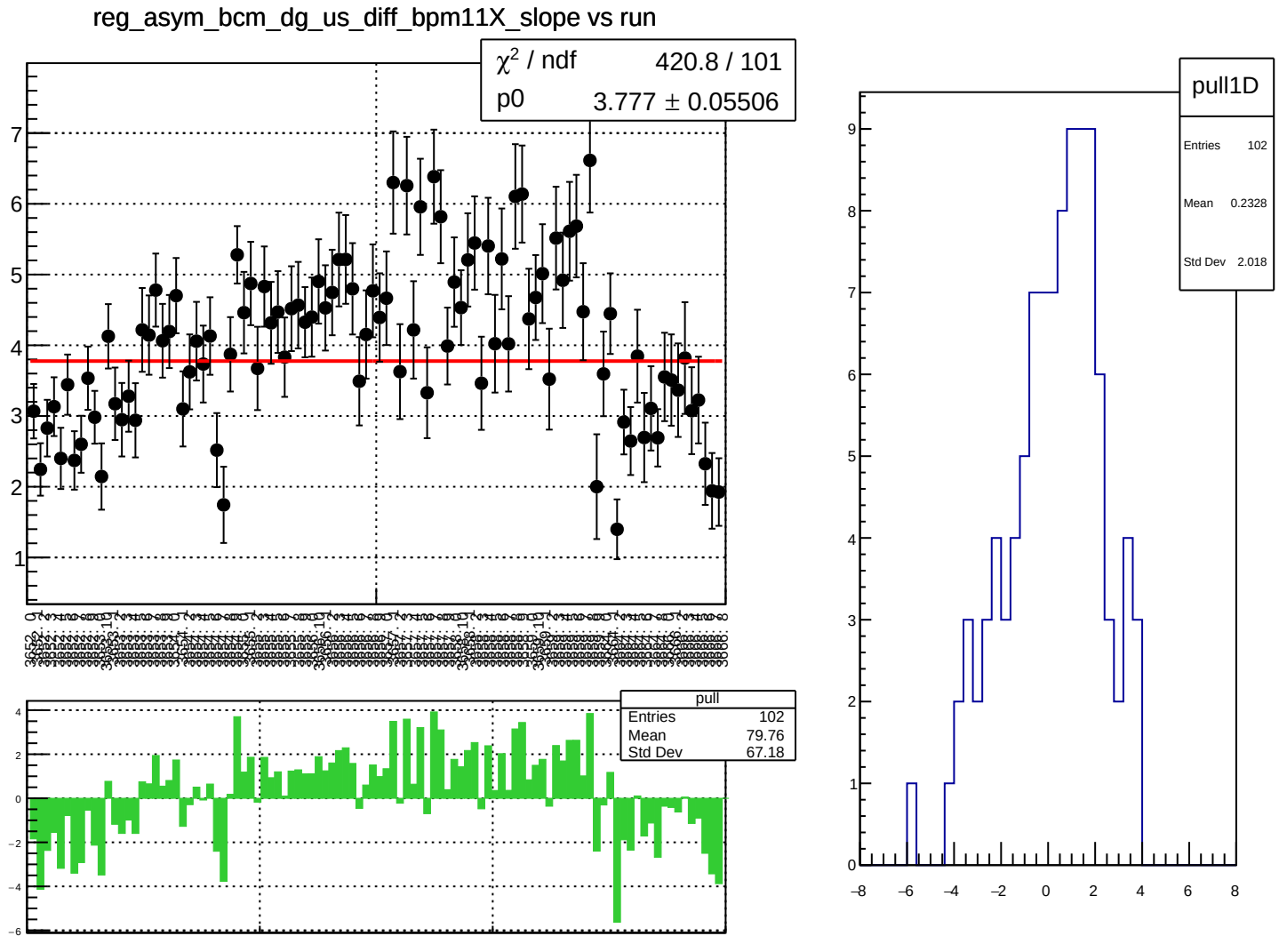

reg_asym_bcm_dg_us_diff_bpm4aX_slope vs run
χ² / ndf 190.5 / 101
p0 3.731 ± 0.2239
pull
Entries 102
Mean 26.55
Std Dev 109.4

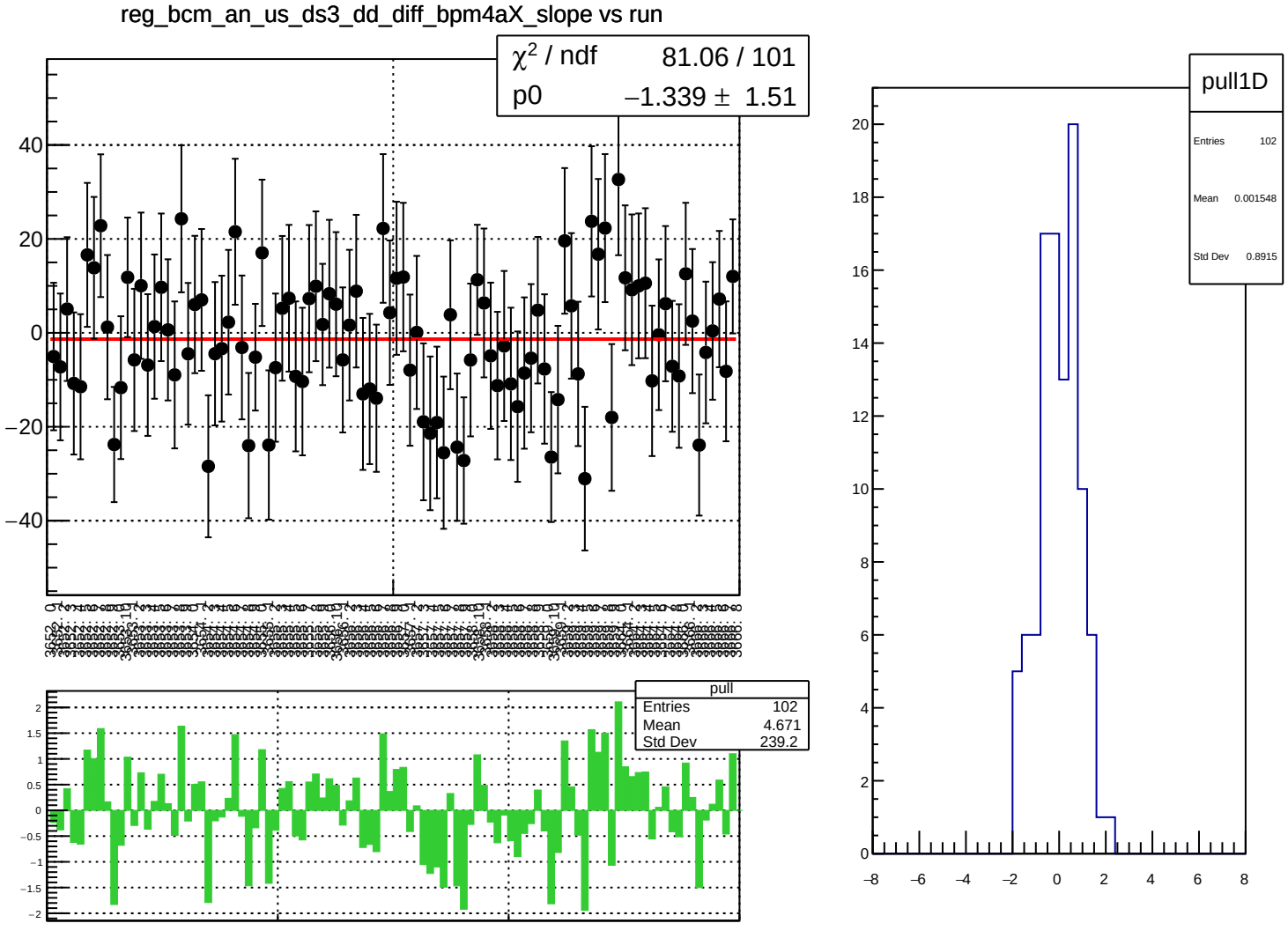

pull1D
Entries 102
Mean 0.02565
Std Dev 1.366

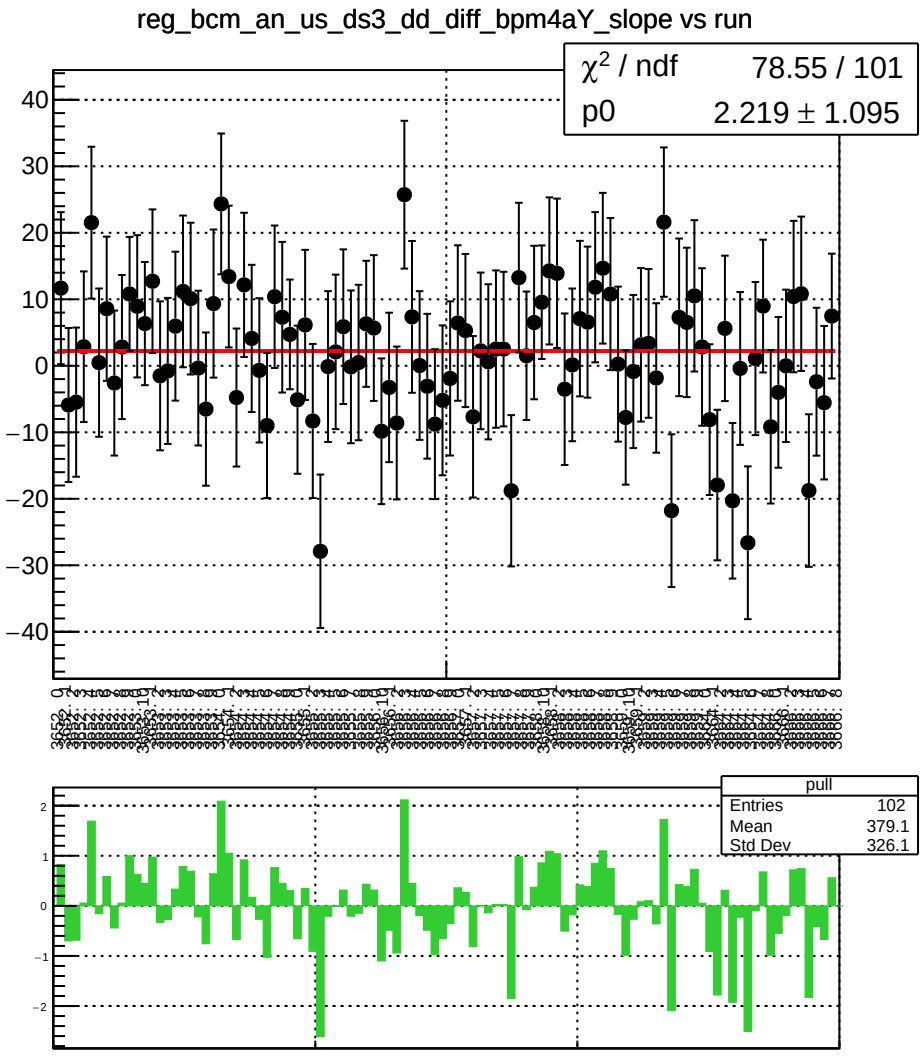

reg_asym_bcm_dg_us_diff_bpm4aY_slope vs run
χ² / ndf 411 / 101
p0 −8.204 ± 0.162
pull
Entries 102
Mean 204.3
Std Dev 159.1
pull1D
Entries 102
Mean −0.1175
Std Dev 1.85

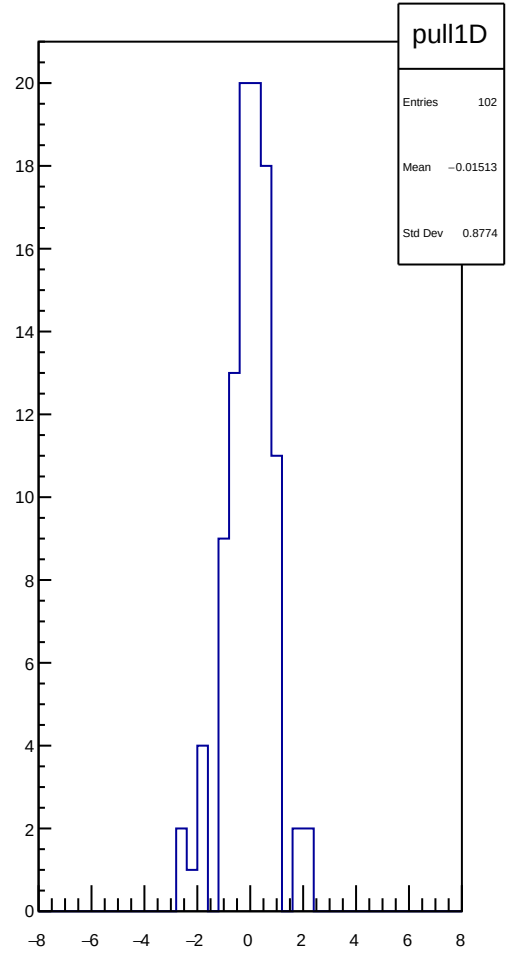

reg_asym_bcm_dg_us_diff_bpm4eX_slope vs run
χ² / ndf 224.6 / 101
p0 1.205 ± 0.04322
pull
Entries 102
Mean 217.7
Std Dev 170.6
pull1D
Entries 102
Mean 0.1064
Std Dev 1.48

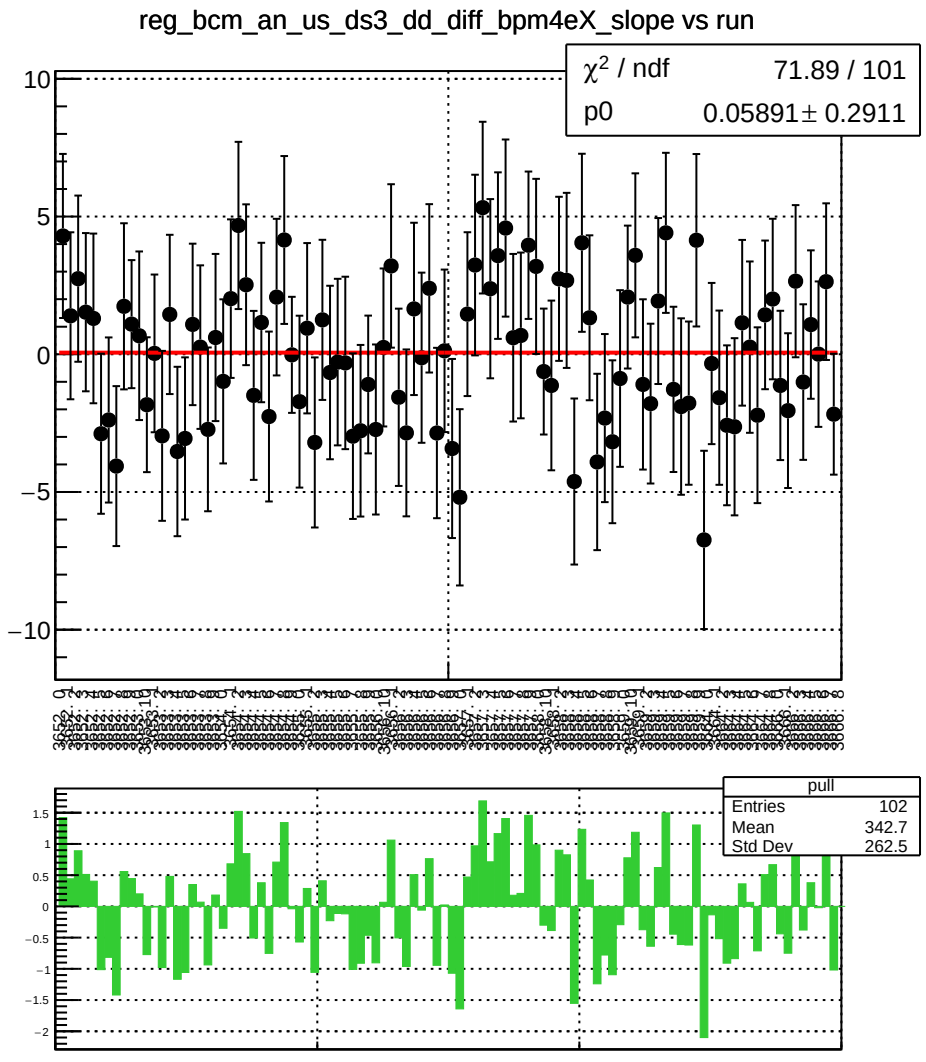

reg_asym_bcm_dg_us_diff_bpm4eY_slope vs run
χ² / ndf 440.6 / 101
p0 13.26 ± 0.2549
pull
Entries 102
Mean 207.8
Std Dev 162.7
pull1D
Entries 102
Mean 0.1238
Std Dev 1.916

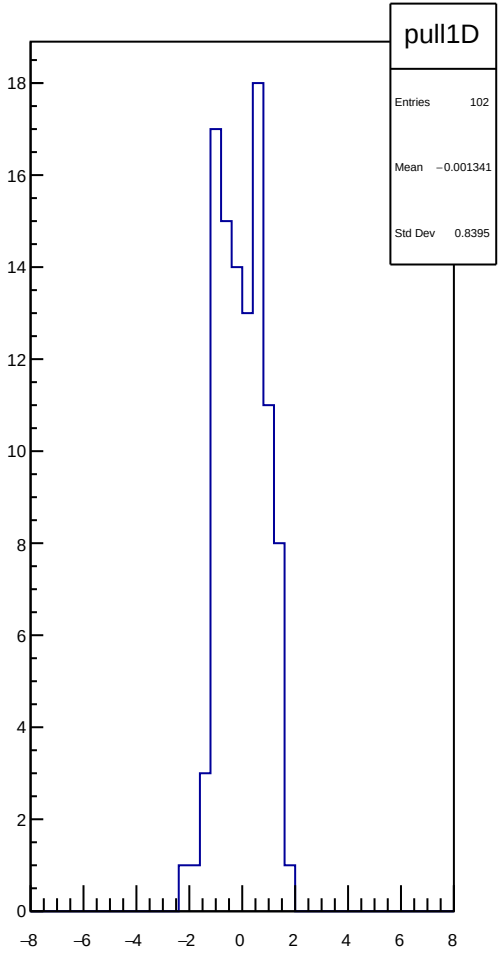

reg_asym_bcm_dg_us_diff_bpm11X_slope vs run
χ² / ndf 420.8 / 101
p0 3.777 ± 0.05506
pull
Entries 102
Mean 79.76
Std Dev 67.18
pull1D
Entries 102
Mean 0.2328
Std Dev 2.018

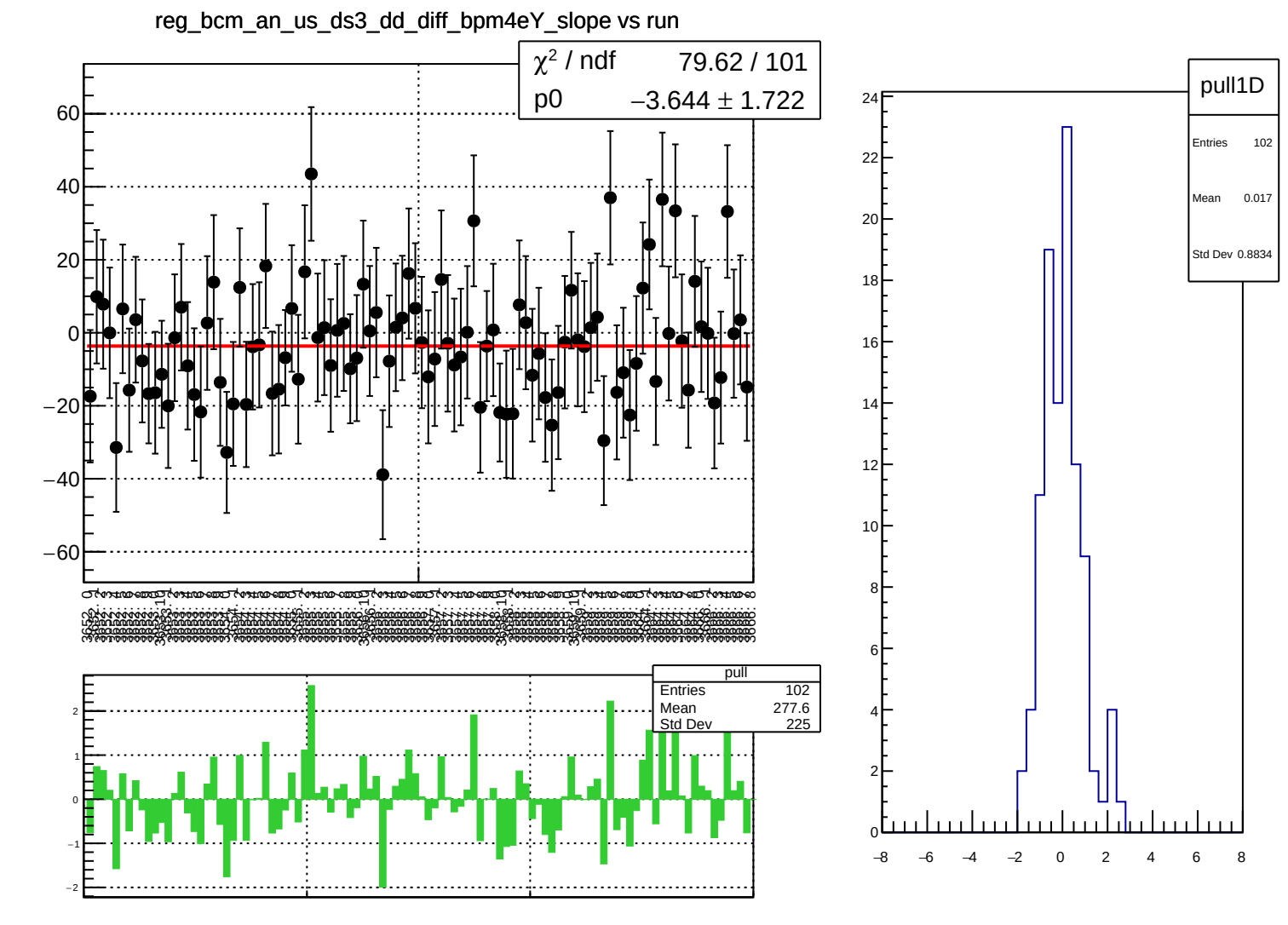

reg_bcm_an_us_ds3_dd_diff_bpm4aX_slope vs run
χ² / ndf 81.06 / 101
p0 −1.339 ± 1.51
pull
Entries 102
Mean 4.671
Std Dev 239.2
pull1D
Entries 102
Mean 0.001548
Std Dev 0.8915

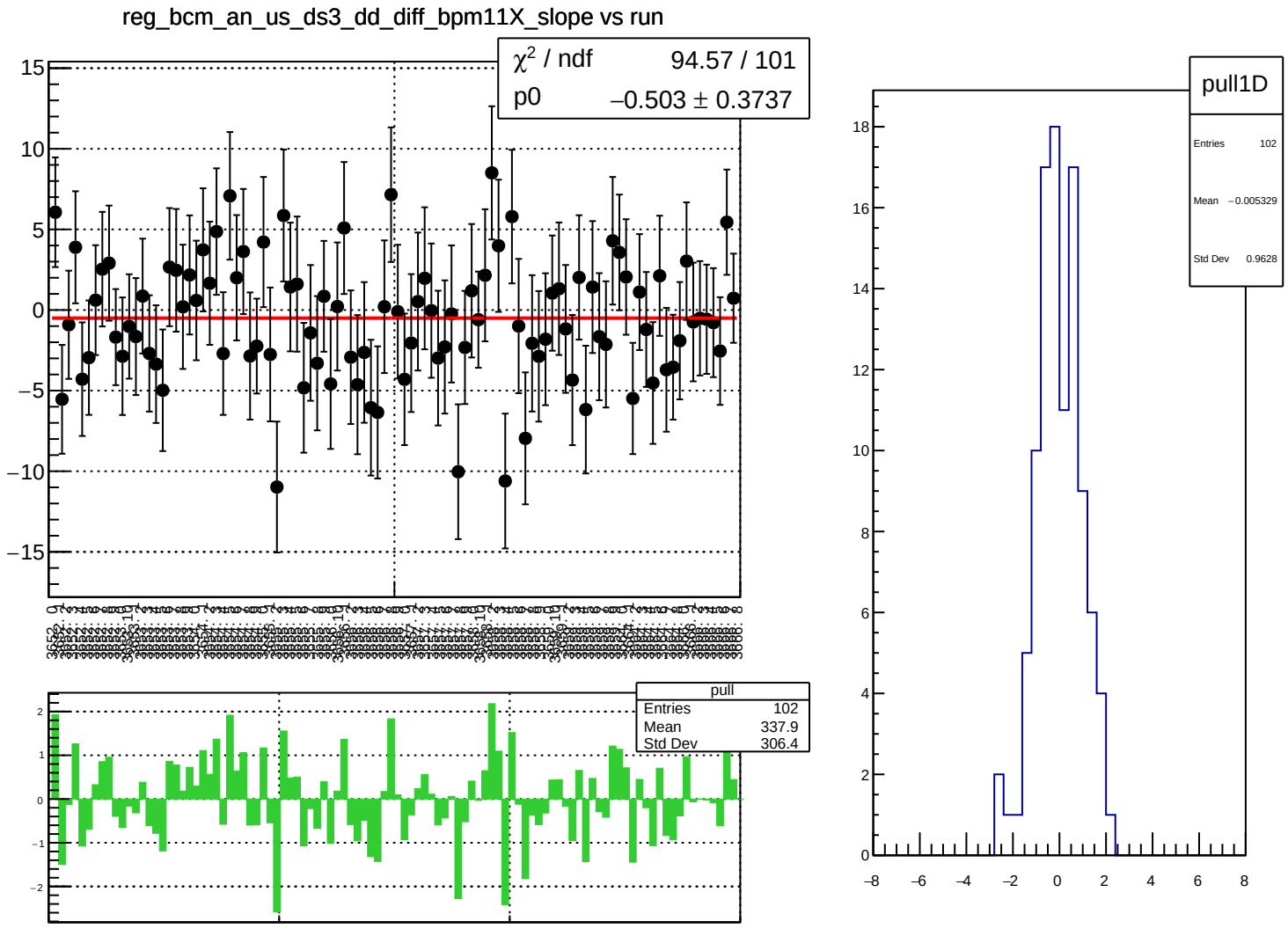

reg_bcm_an_us_ds3_dd_diff_bpm4aY_slope vs run
χ² / ndf 78.55 / 101
p0 2.219 ± 1.095
pull
Entries 102
Mean 379.1
Std Dev 326.1

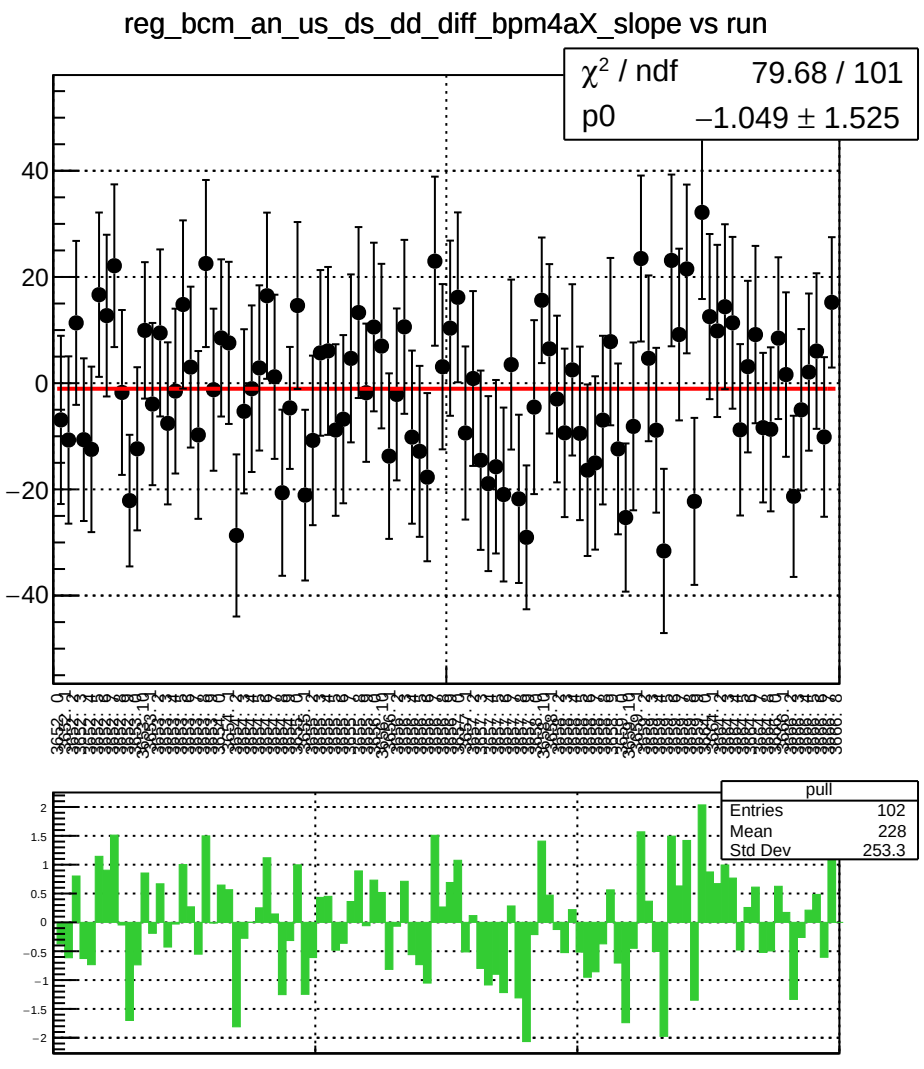

pull1D
Entries 102
Mean −0.01513
Std Dev 0.8774

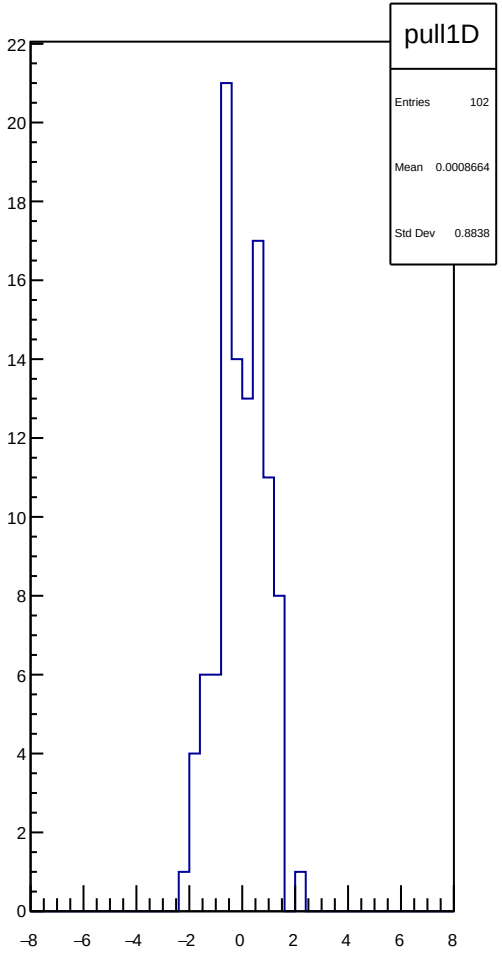

reg_bcm_an_us_ds3_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.89 / 101
p0 0.05891 ± 0.2911
pull
Entries 102
Mean 342.7
Std Dev 262.5

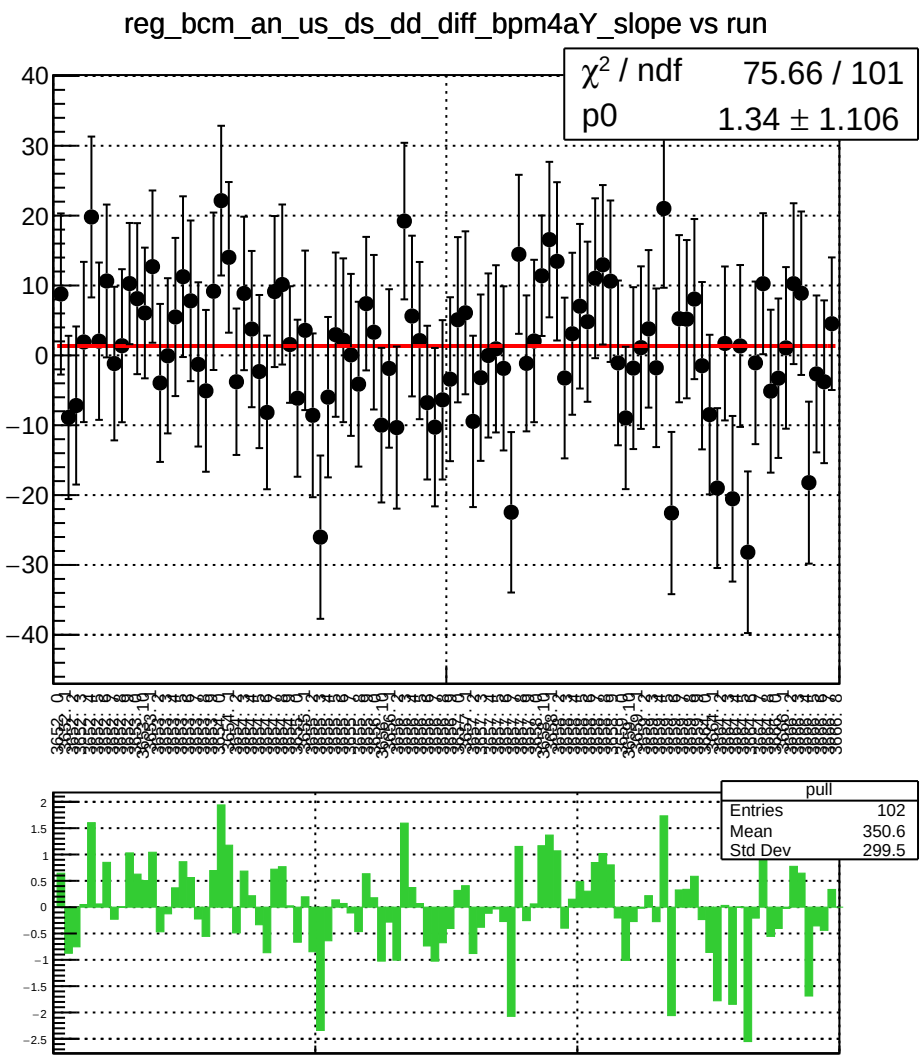

pull1D
Entries 102
Mean −0.001341
Std Dev 0.8395

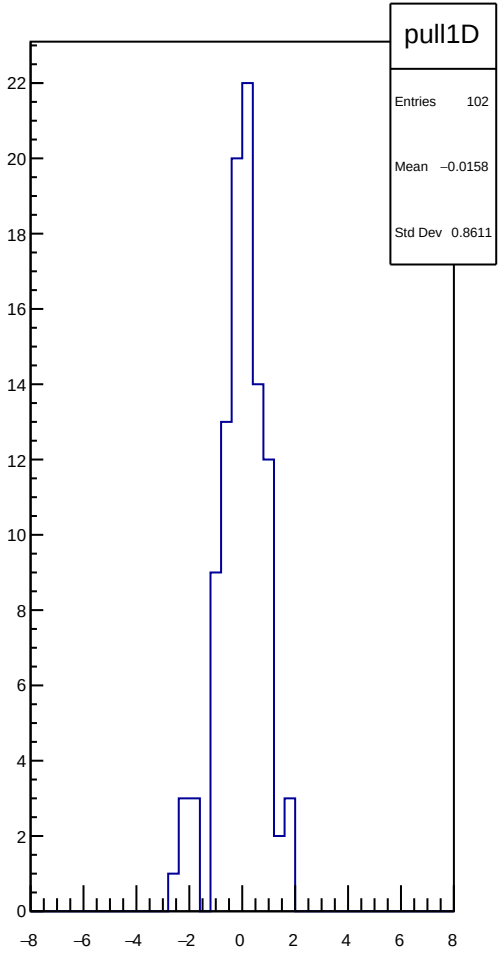

reg_bcm_an_us_ds3_dd_diff_bpm4eY_slope vs run
χ² / ndf 79.62 / 101
p0 −3.644 ± 1.722
pull
Entries 102
Mean 277.6
Std Dev 225
pull1D
Entries 102
Mean 0.017
Std Dev 0.8834

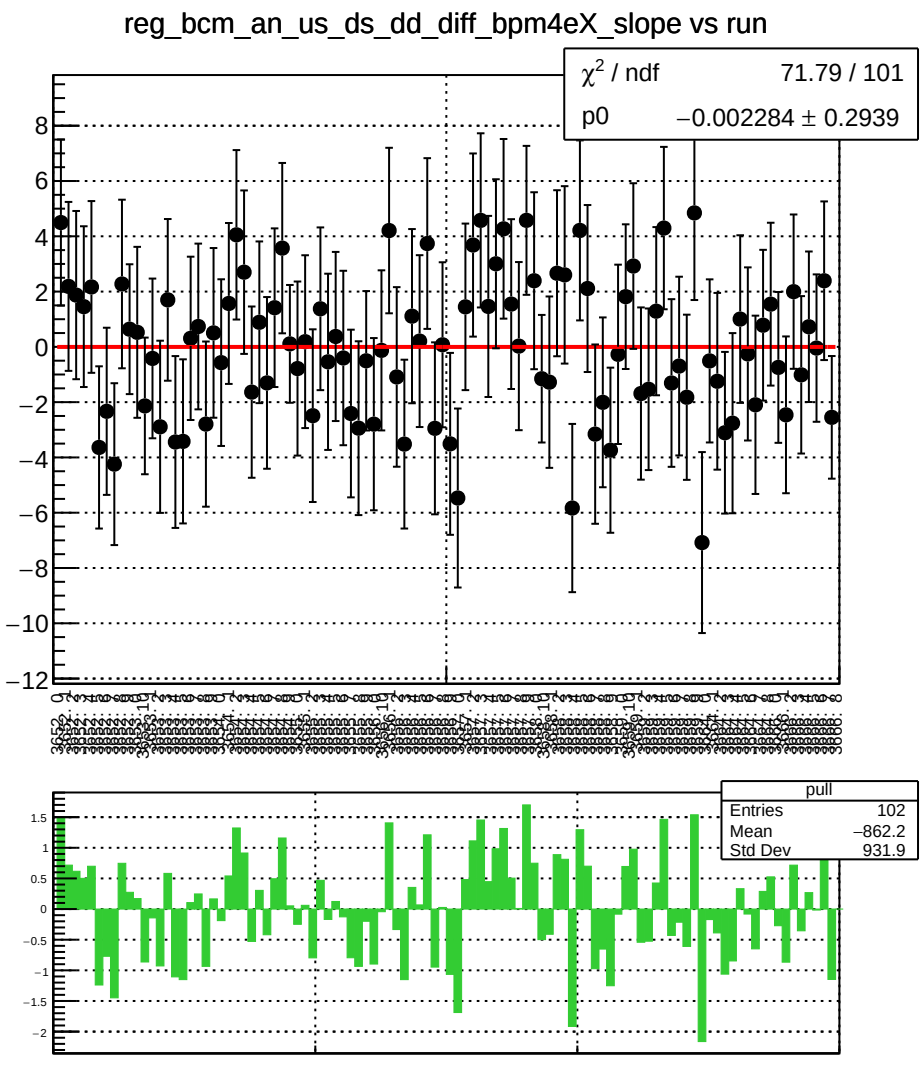

reg_bcm_an_us_ds3_dd_diff_bpm11X_slope vs run
χ² / ndf 94.57 / 101
p0 −0.503 ± 0.3737
pull
Entries 102
Mean 337.9
Std Dev 306.4
pull1D
Entries 102
Mean −0.005329
Std Dev 0.9628

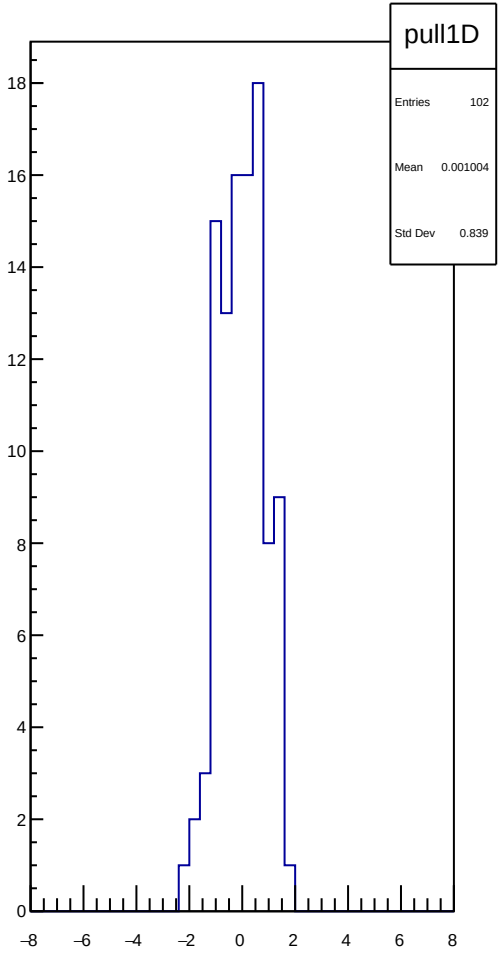

reg_bcm_an_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 79.68 / 101
p0 −1.049 ± 1.525
pull
Entries 102
Mean 228
Std Dev 253.3

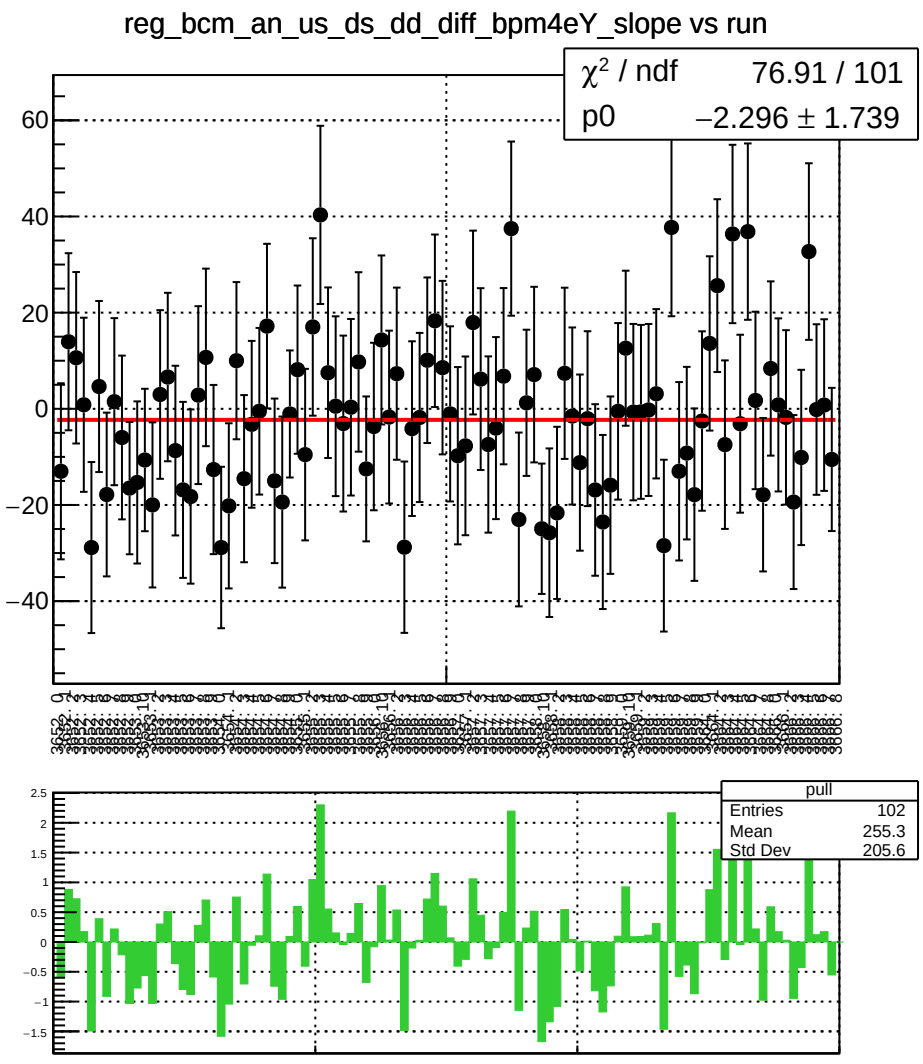

pull1D
Entries 102
Mean 0.0008664
Std Dev 0.8838

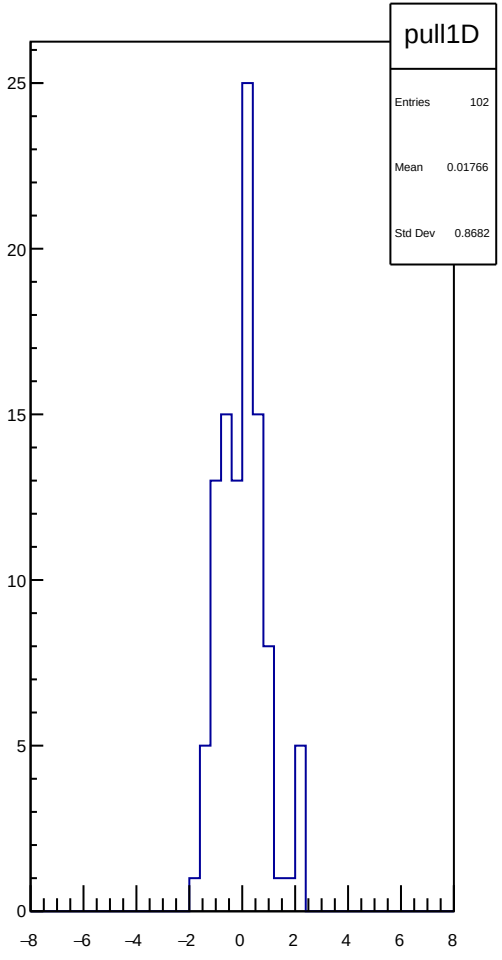

reg_bcm_an_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 75.66 / 101
p0 1.34 ± 1.106
pull
Entries 102
Mean 350.6
Std Dev 299.5

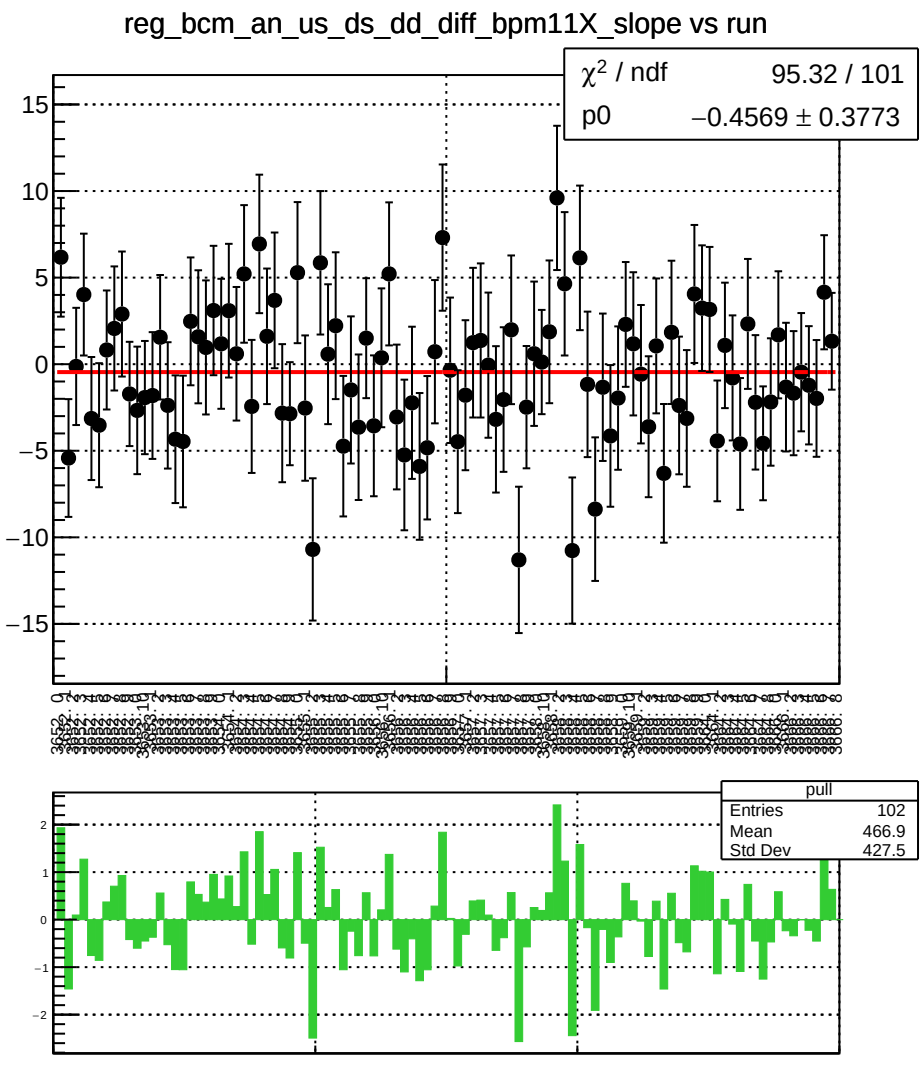

pull1D
Entries 102
Mean −0.0158
Std Dev 0.8611

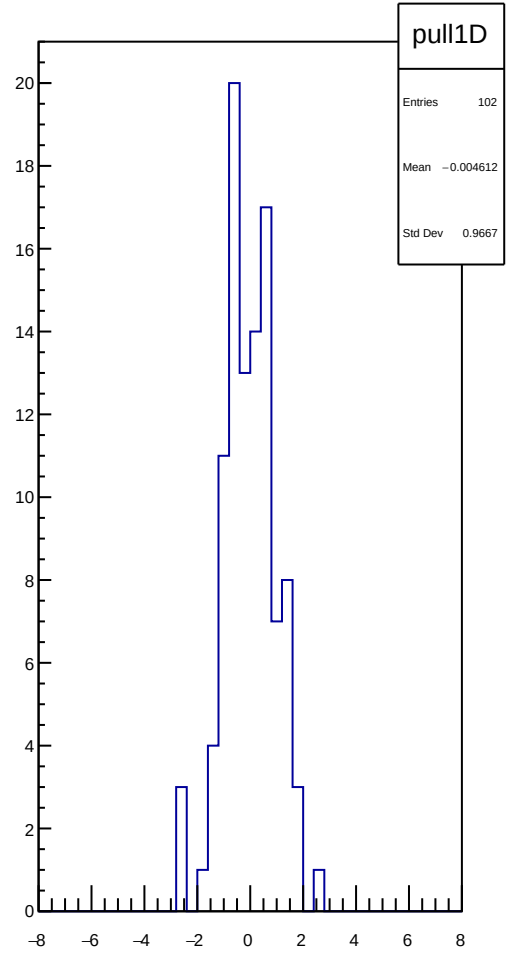

reg_bcm_an_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 71.79 / 101
p0 −0.002284 ± 0.2939
pull
Entries 102
Mean −862.2
Std Dev 931.9

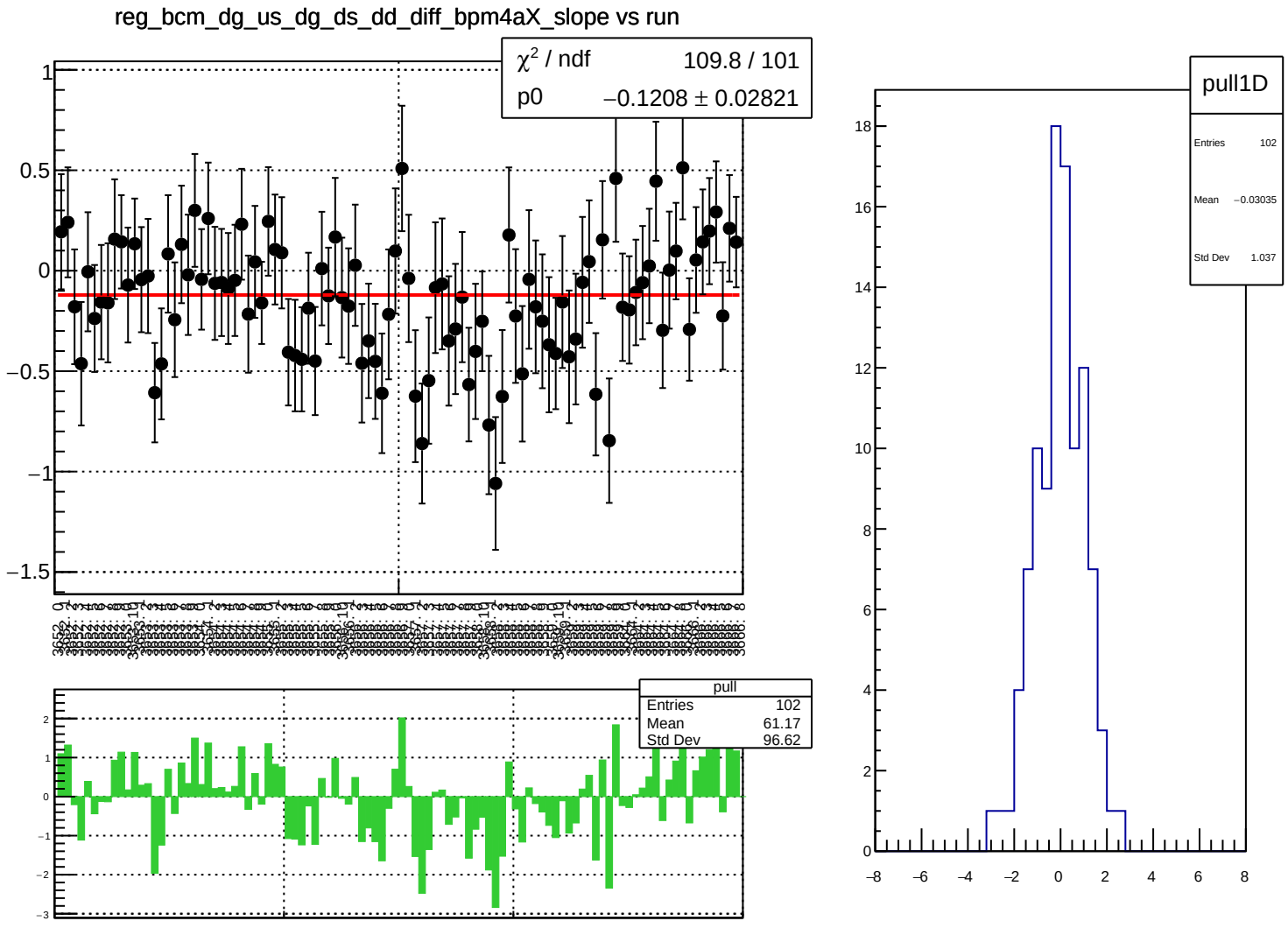

pull1D
Entries 102
Mean 0.001004
Std Dev 0.839

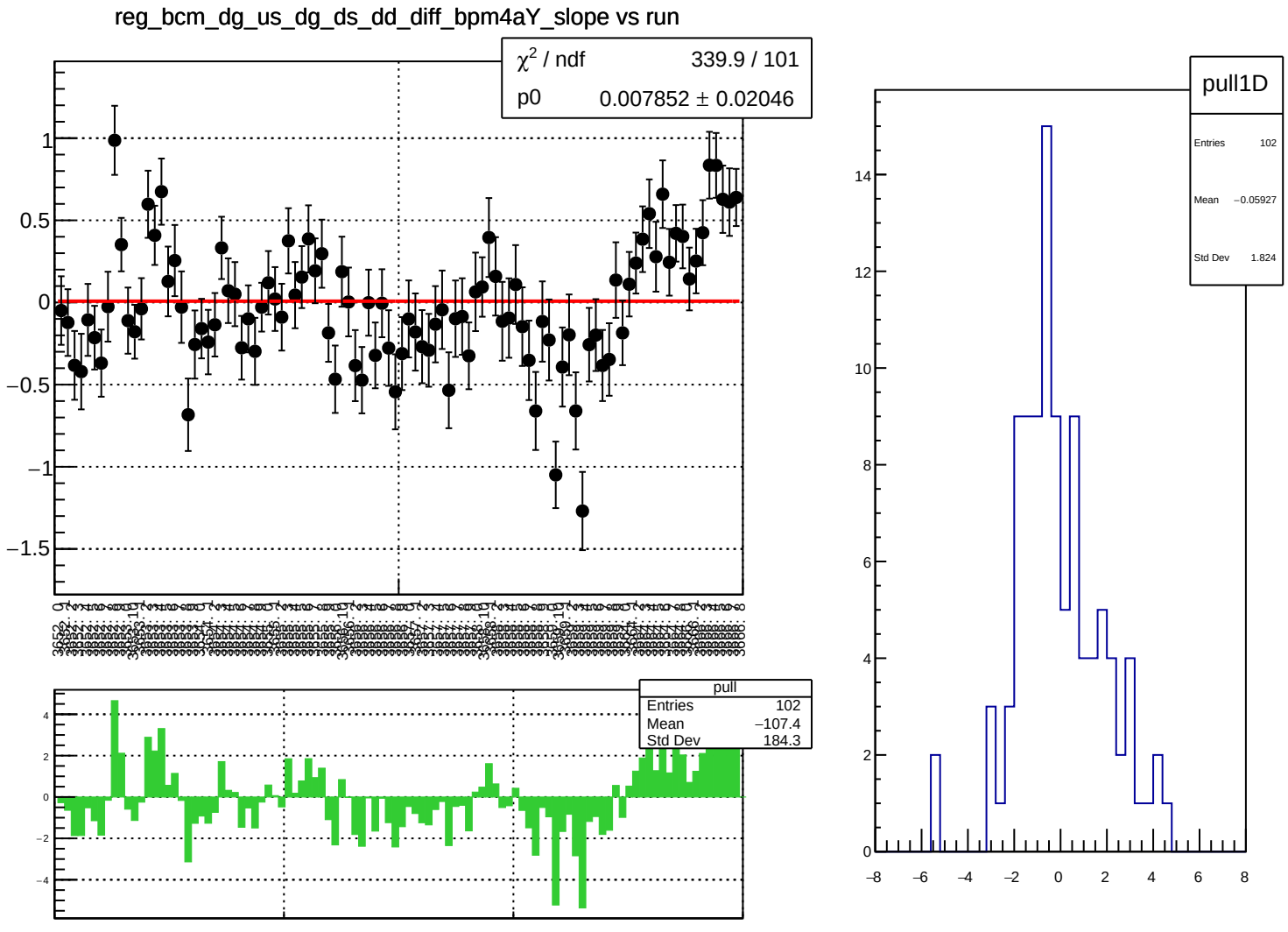

reg_bcm_an_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 76.91 / 101
p0 −2.296 ± 1.739
pull
Entries 102
Mean 255.3
Std Dev 205.6

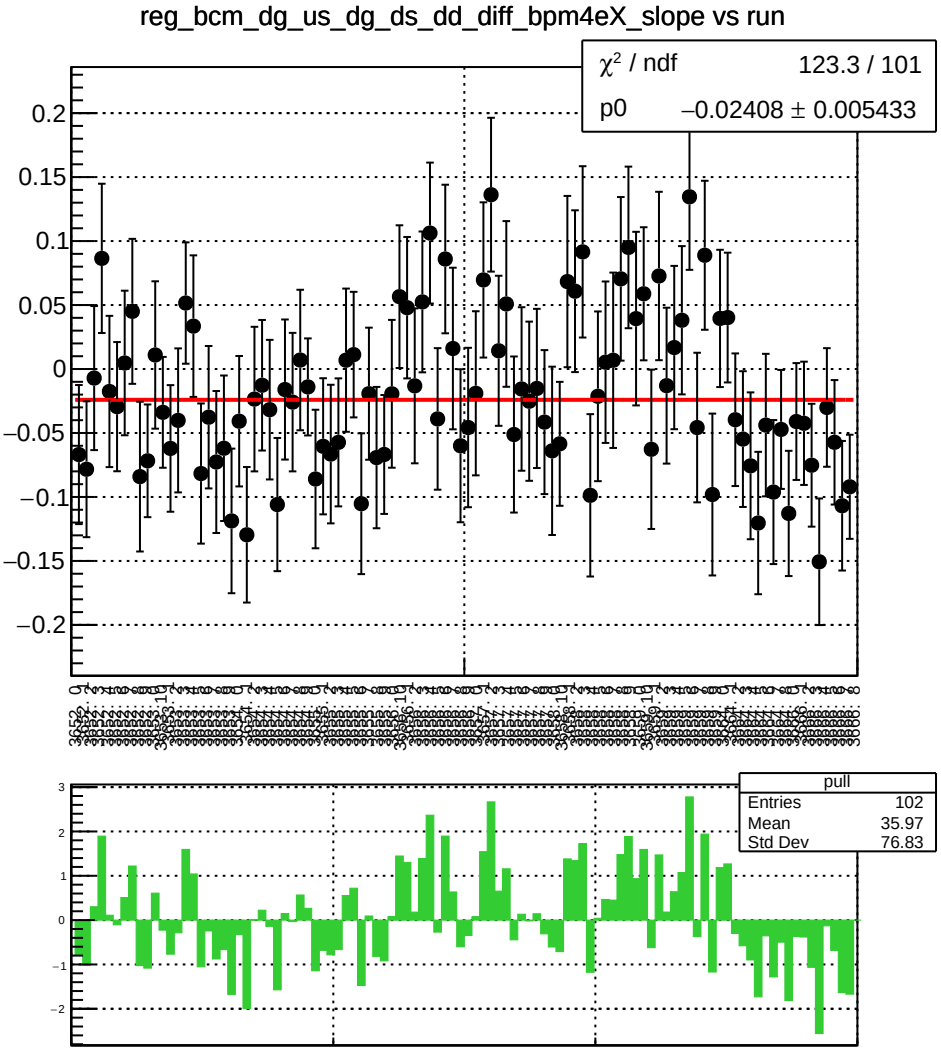

pull1D
Entries 102
Mean 0.01766
Std Dev 0.8682

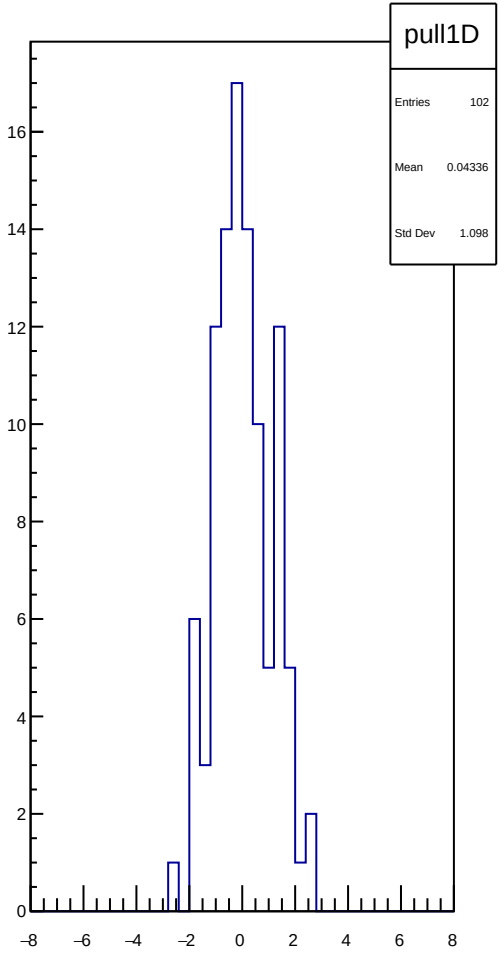

reg_bcm_an_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 95.32 / 101
p0 −0.4569 ± 0.3773
pull
Entries 102
Mean 466.9
Std Dev 427.5

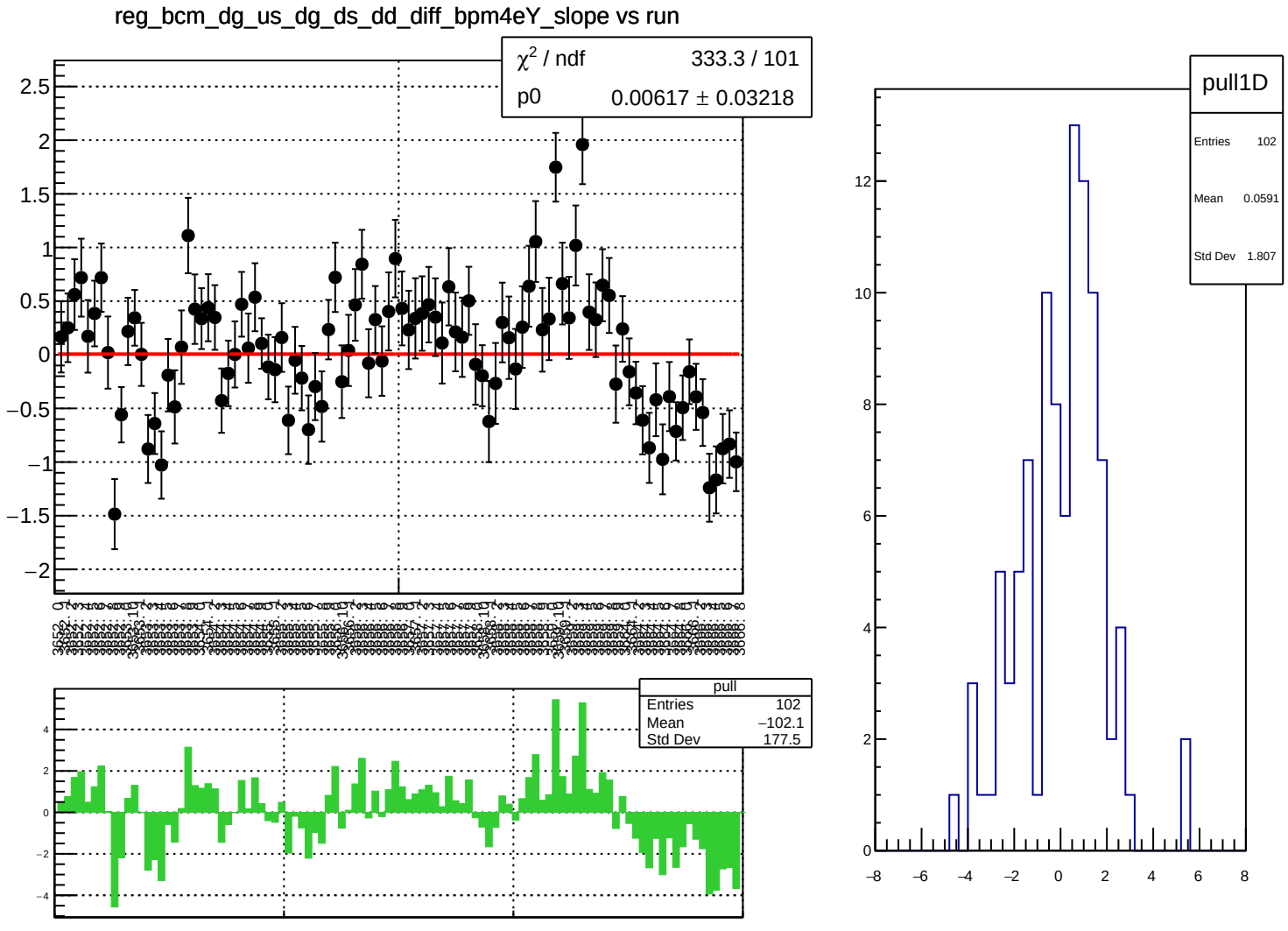

pull1D
Entries 102
Mean −0.004612
Std Dev 0.9667

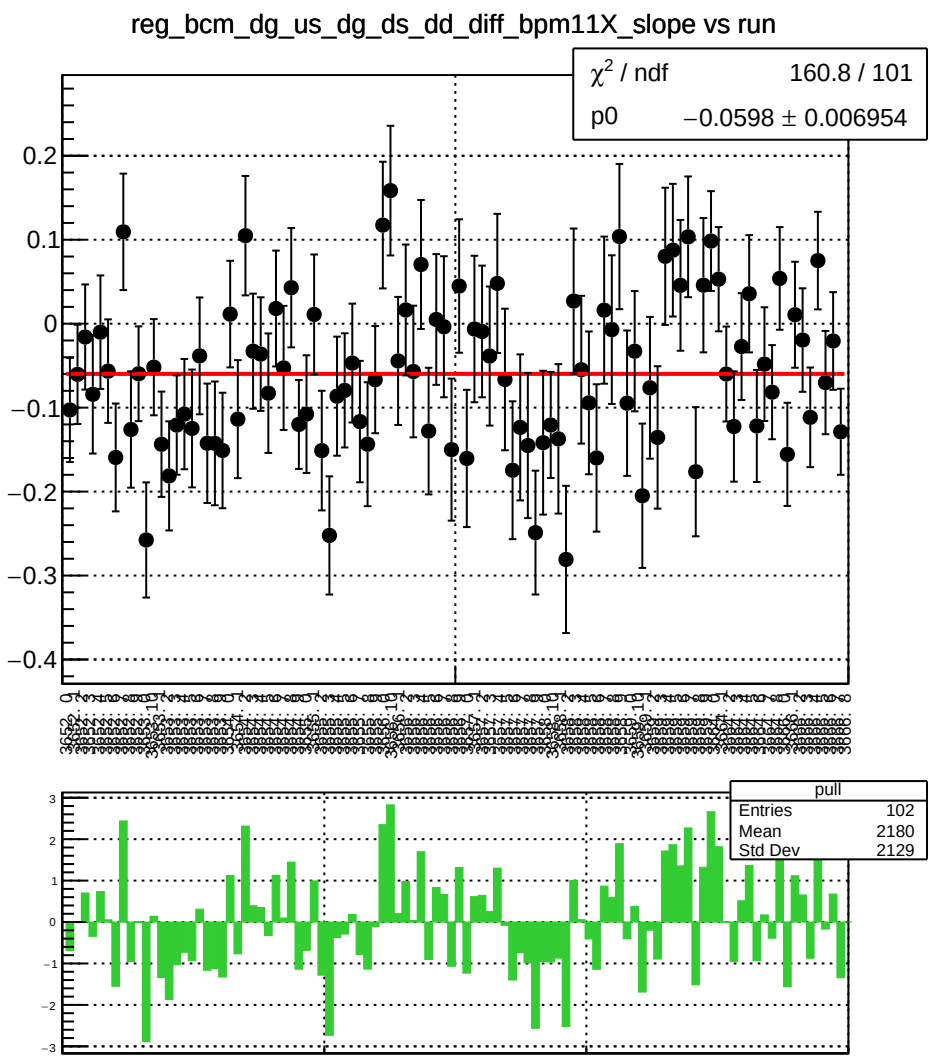

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 109.8 / 101
p0 −0.1208 ± 0.02821
pull
Entries 102
Mean 61.17
Std Dev 96.62
pull1D
Entries 102
Mean −0.03035
Std Dev 1.037

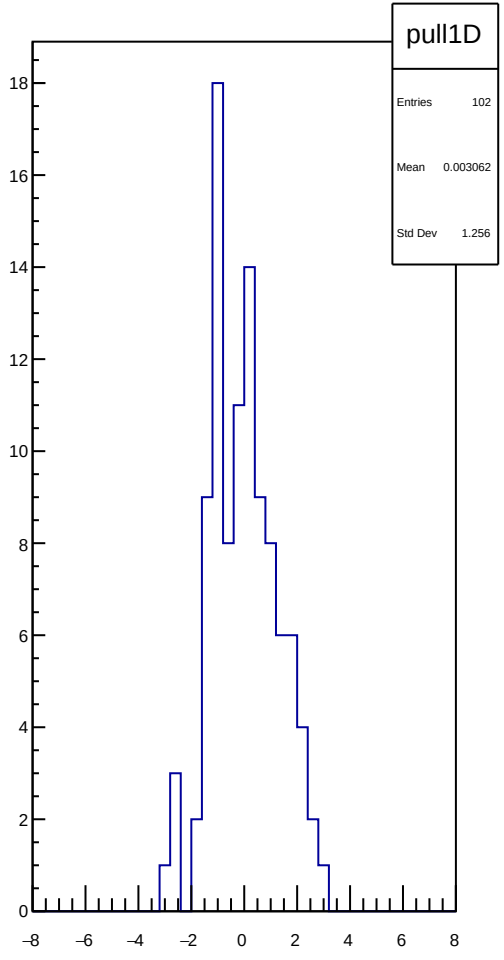

reg_bcm_dg_us_dg_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 339.9 / 101
p0 0.007852 ± 0.02046
pull
Entries 102
Mean −107.4
Std Dev 184.3
pull1D
Entries 102
Mean −0.05927
Std Dev 1.824

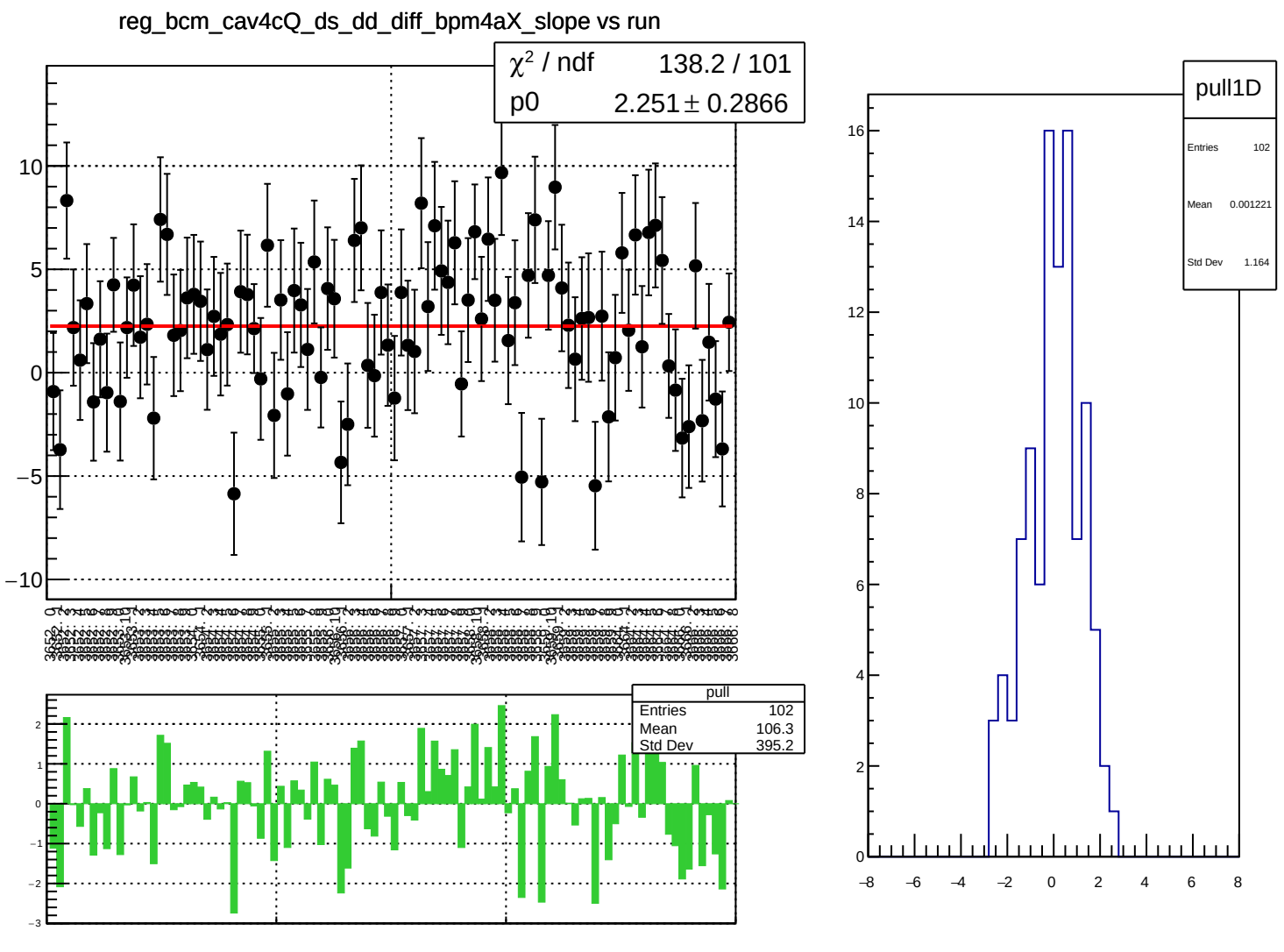

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 123.3 / 101
p0 −0.02408 ± 0.005433
pull
Entries 102
Mean 35.97
Std Dev 76.83

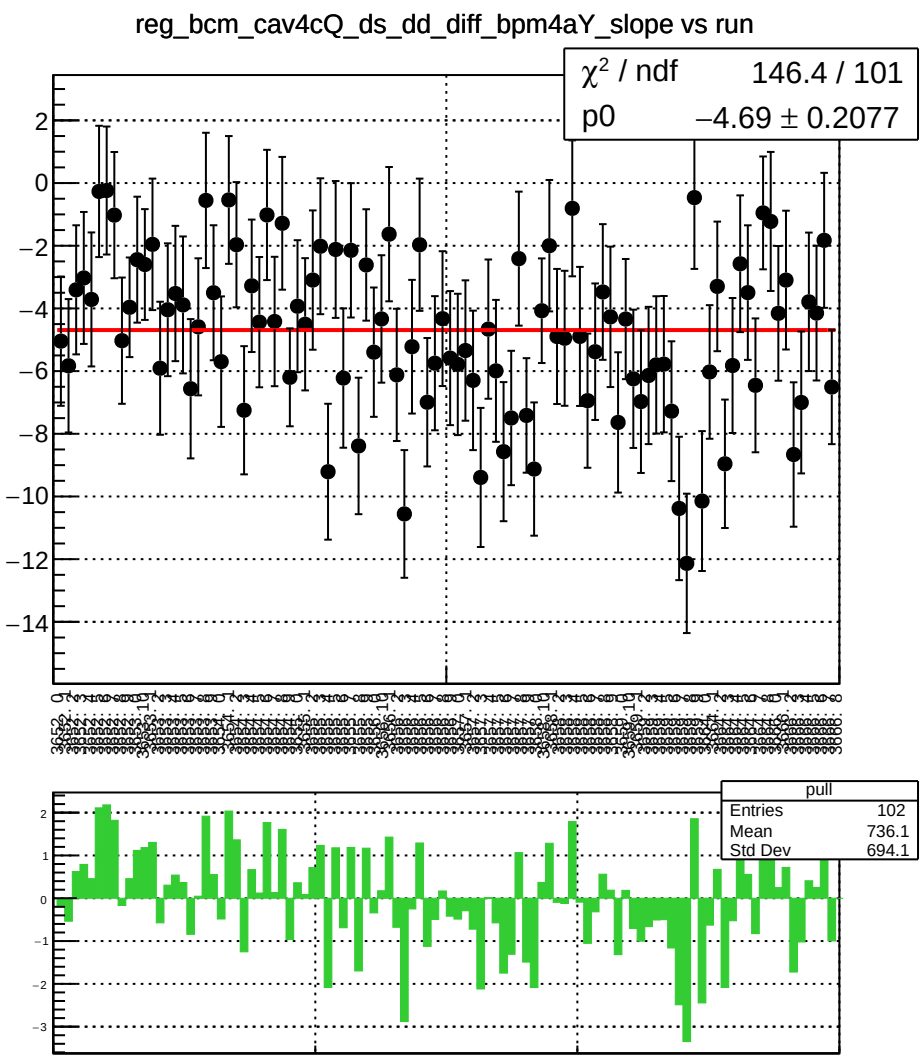

pull1D
Entries 102
Mean 0.04336
Std Dev 1.098

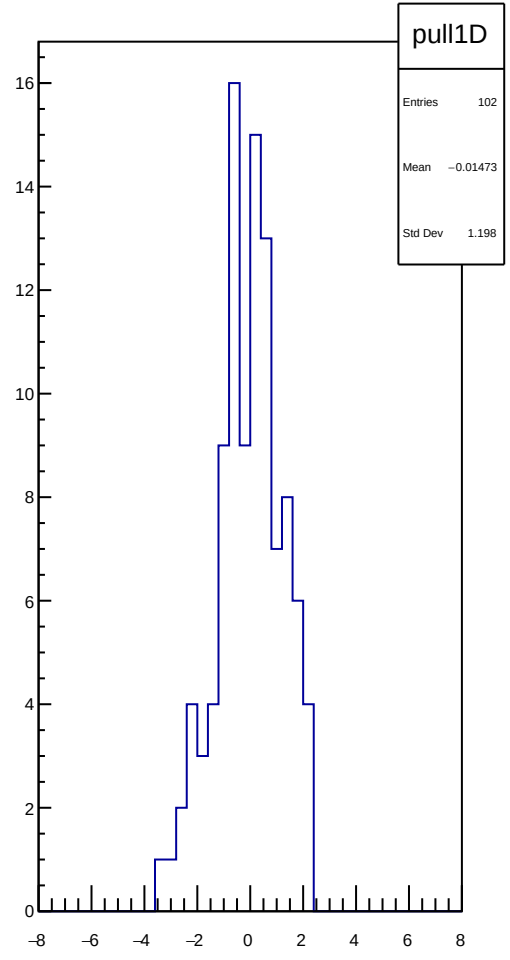

reg_bcm_dg_us_dg_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 333.3 / 101
p0 0.00617 ± 0.03218
pull
Entries 102
Mean −102.1
Std Dev 177.5
pull1D
Entries 102
Mean 0.0591
Std Dev 1.807

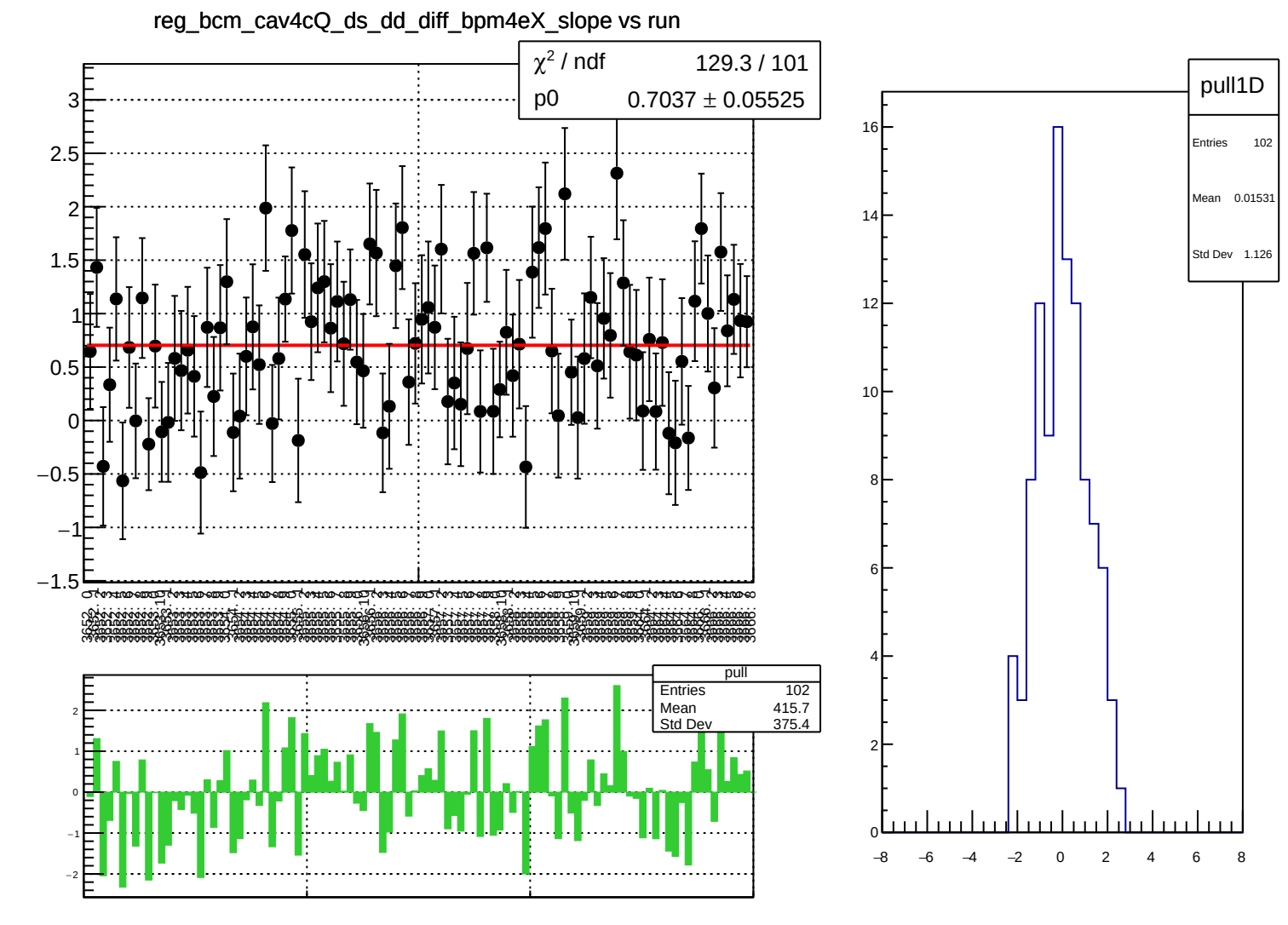

reg_bcm_dg_us_dg_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 160.8 / 101
p0 −0.0598 ± 0.006954
pull
Entries 102
Mean 2180
Std Dev 2129

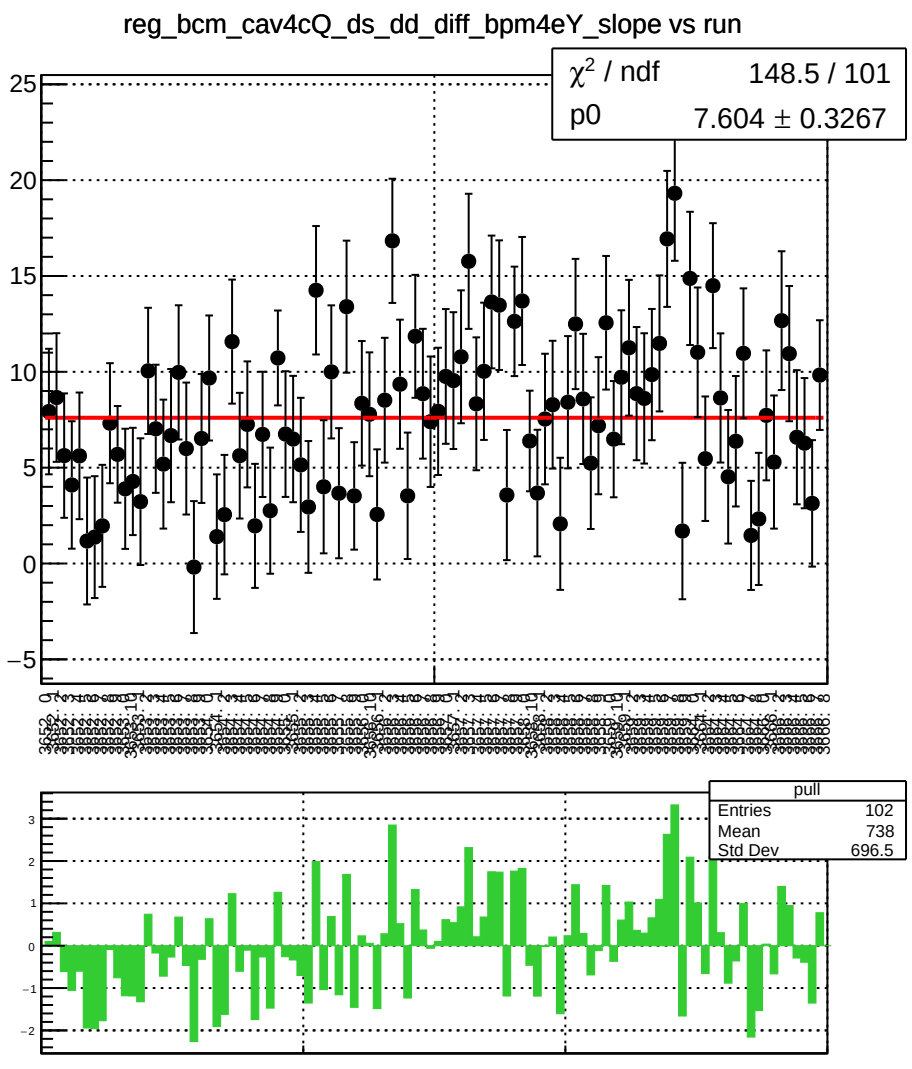

pull1D
Entries 102
Mean 0.003062
Std Dev 1.256

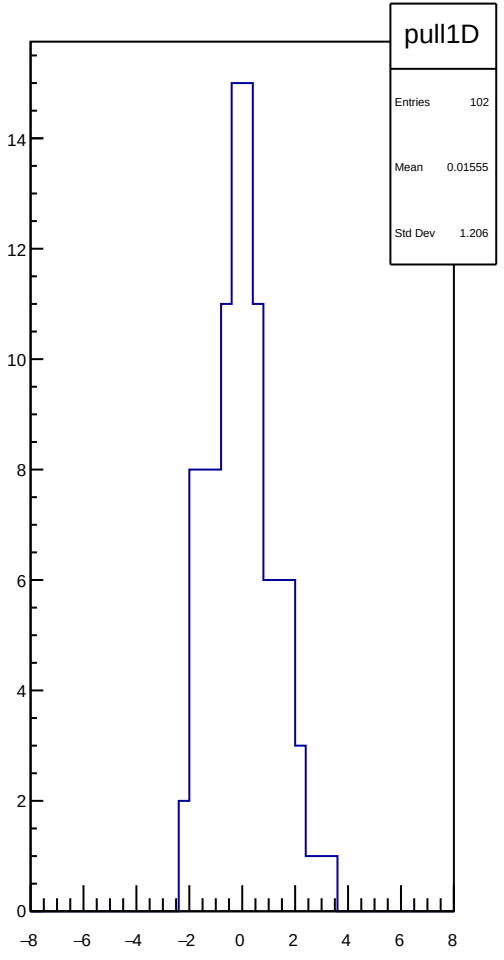

reg_bcm_cav4cQ_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 138.2 / 101
p0 2.251 ± 0.2866
pull
Entries 102
Mean 106.3
Std Dev 395.2
pull1D
Entries 102
Mean 0.001221
Std Dev 1.164

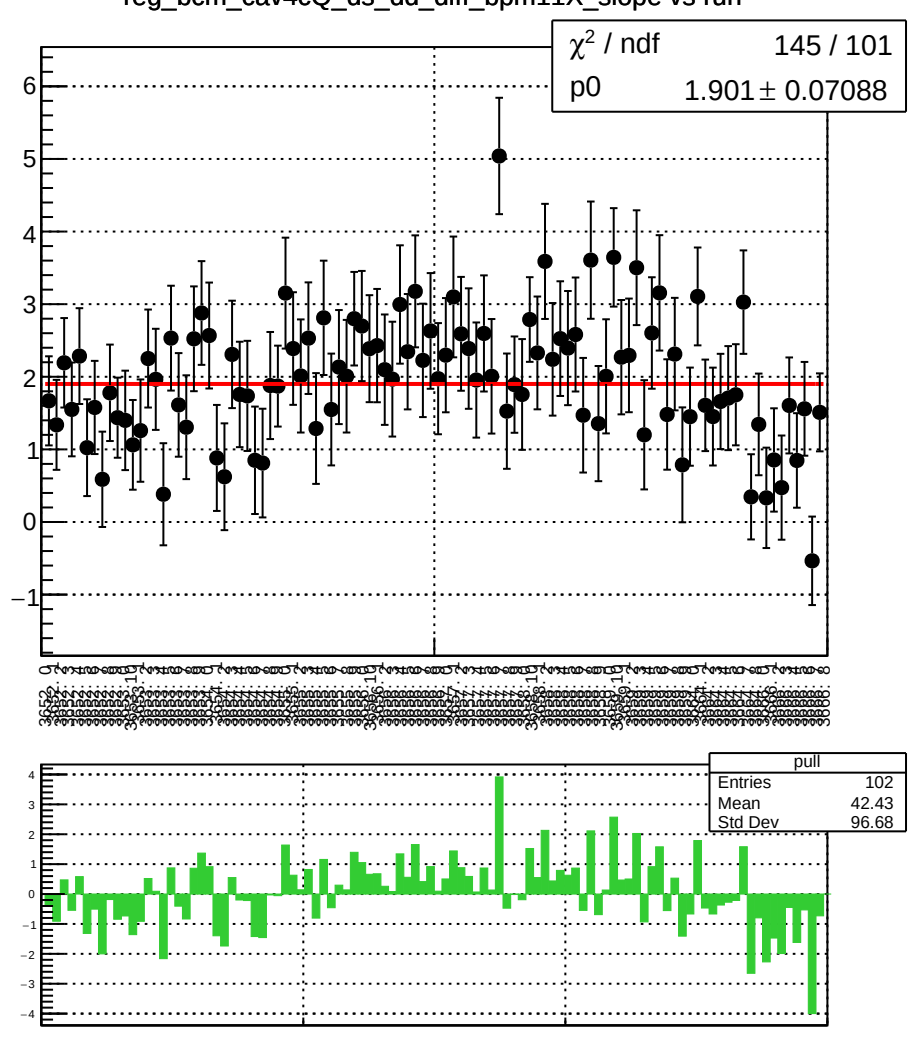

reg_bcm_cav4cQ_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 146.4 / 101
p0 −4.69 ± 0.2077
pull
Entries 102
Mean 736.1
Std Dev 694.1

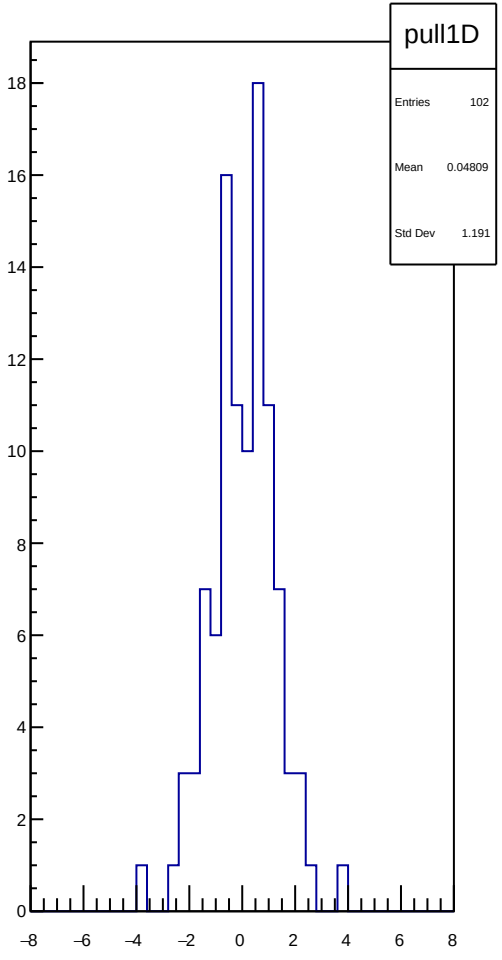

pull1D
Entries 102
Mean −0.01473
Std Dev 1.198

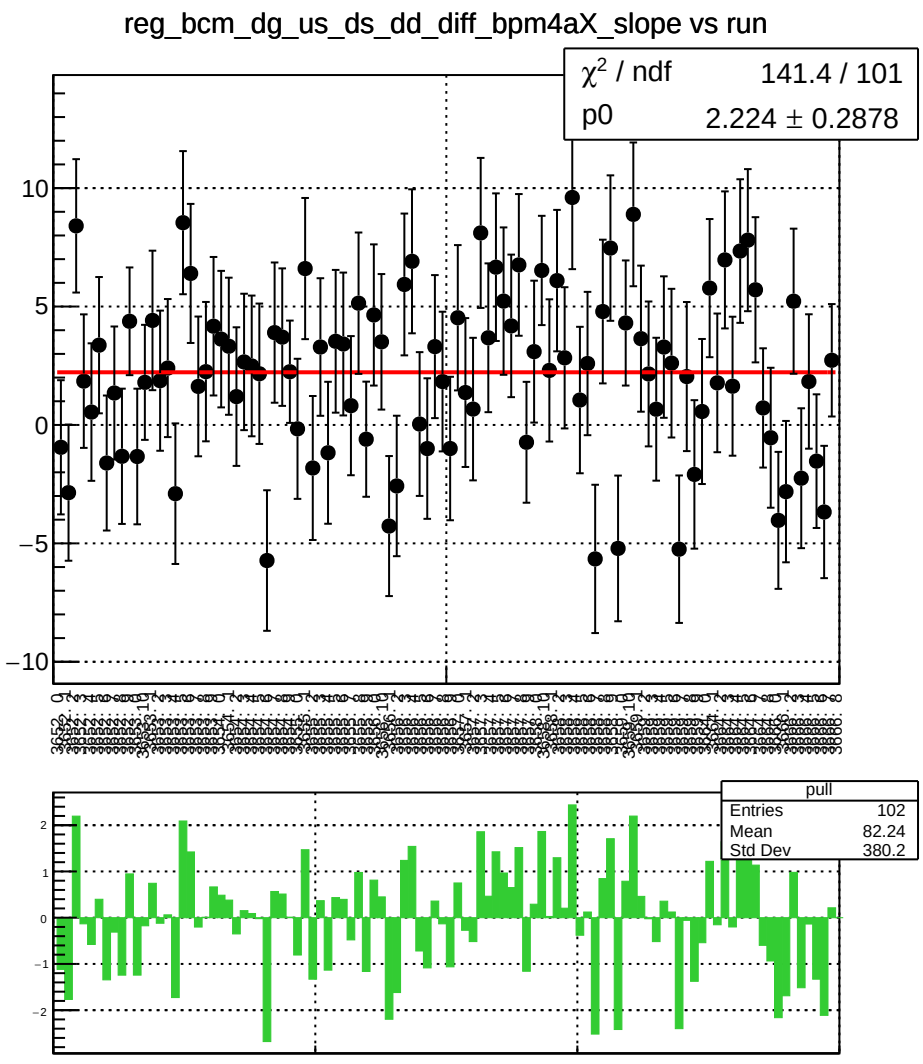

reg_bcm_cav4cQ_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 129.3 / 101
p0 0.7037 ± 0.05525
pull
Entries 102
Mean 415.7
Std Dev 375.4
pull1D
Entries 102
Mean 0.01531
Std Dev 1.126

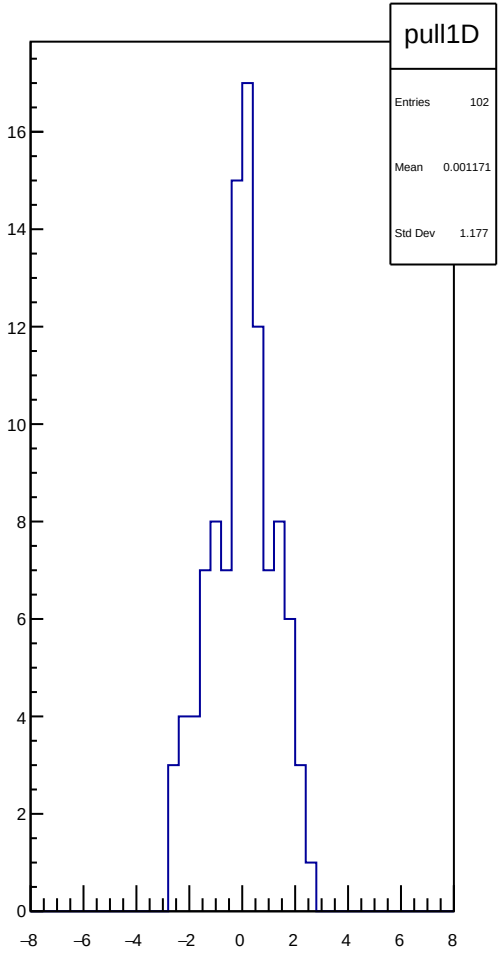

reg_bcm_cav4cQ_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 148.5 / 101
p0 7.604 ± 0.3267
pull
Entries 102
Mean 738
Std Dev 696.5

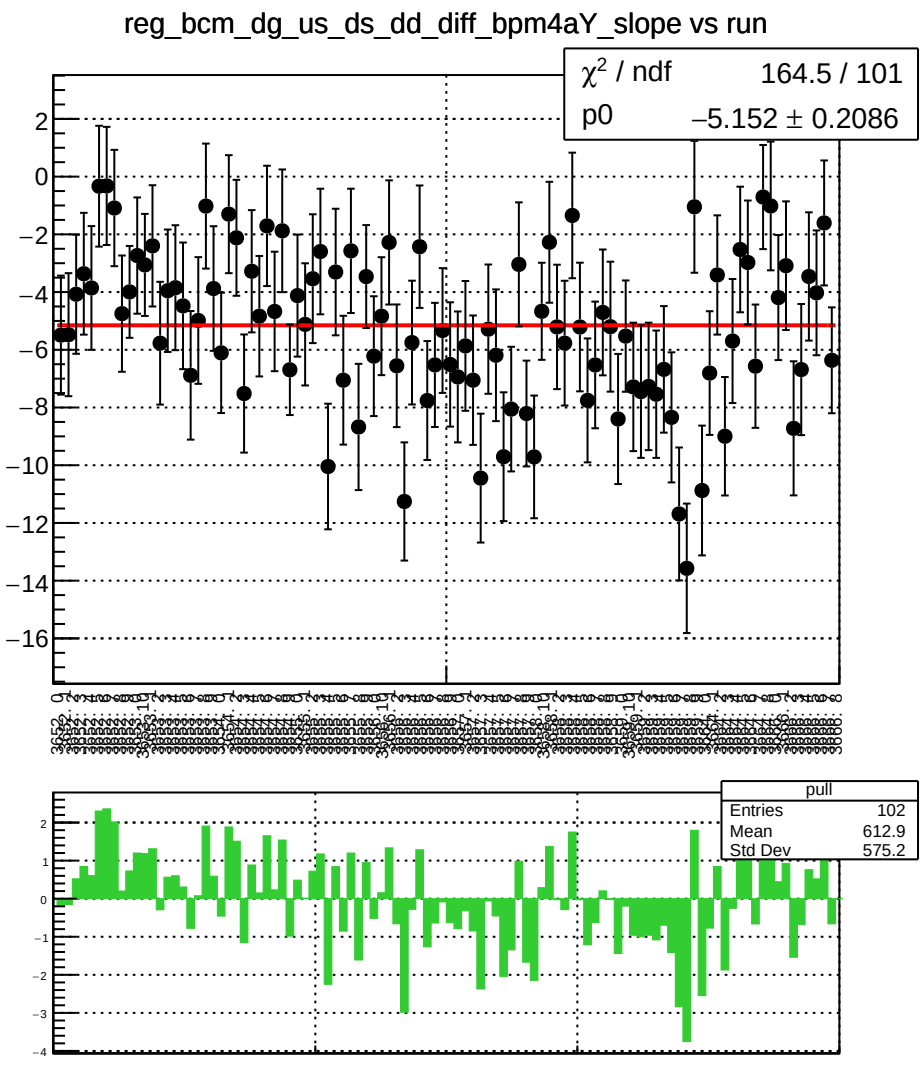

pull1D
Entries 102
Mean 0.01555
Std Dev 1.206

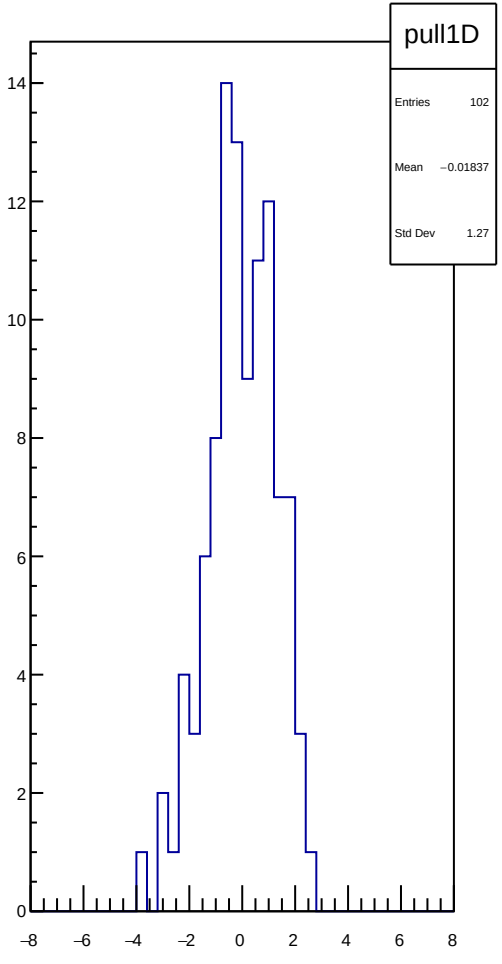

reg_bcm_cav4cQ_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 145 / 101
p0 1.901 ± 0.07088
pull
Entries 102
Mean 42.43
Std Dev 96.68

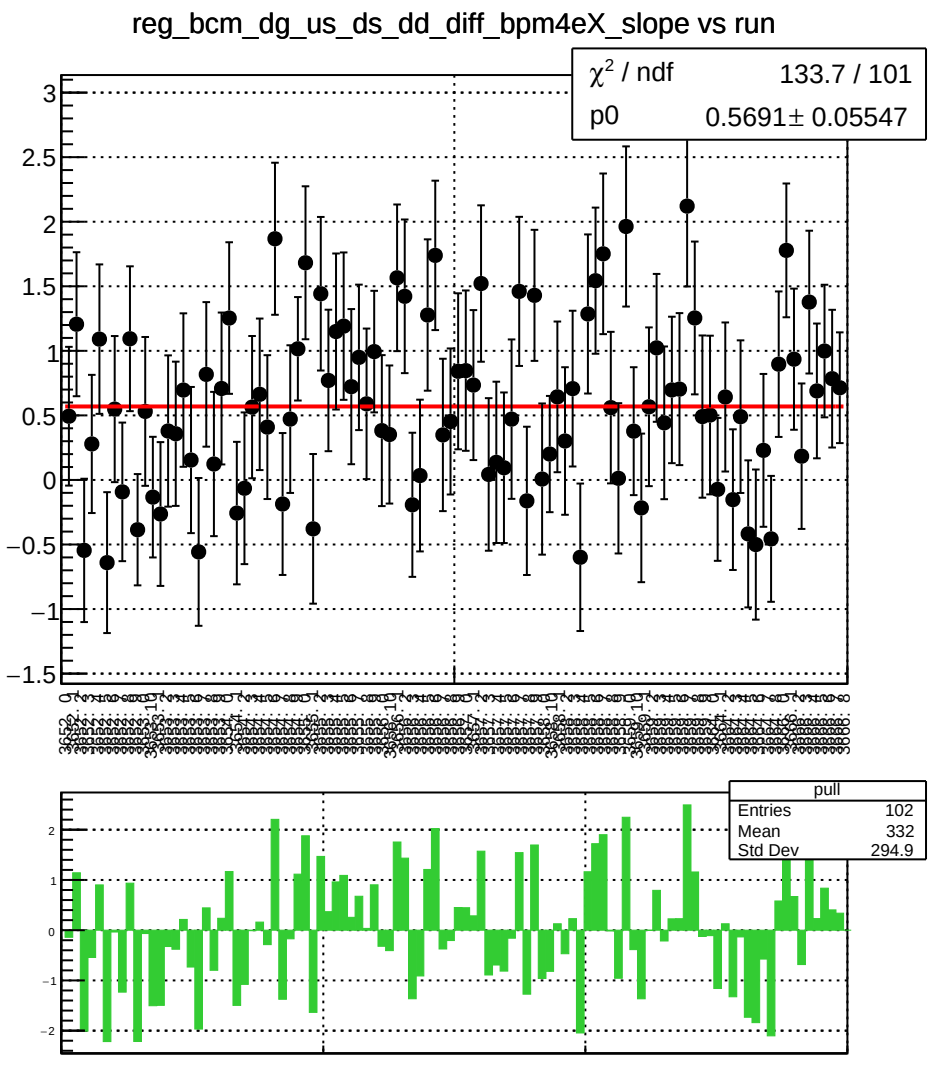

pull1D
Entries 102
Mean 0.04809
Std Dev 1.191

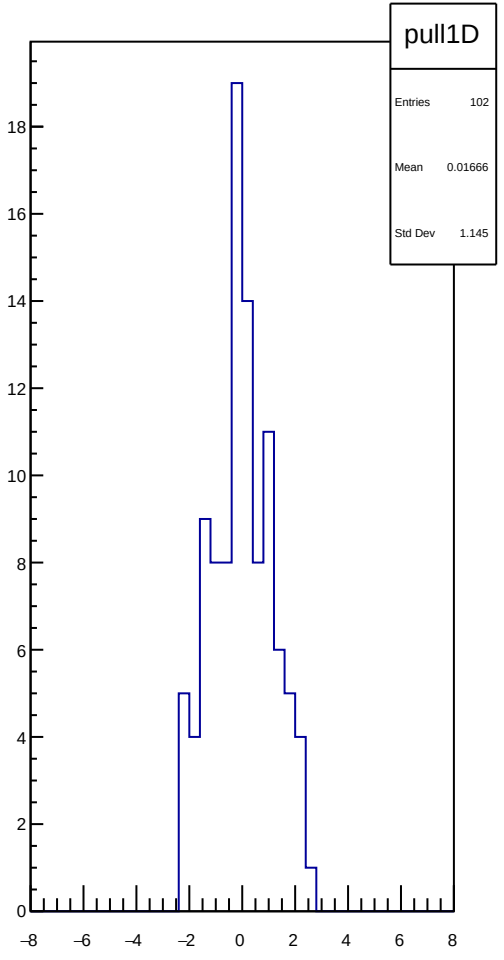

reg_bcm_dg_us_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 141.4 / 101
p0 2.224 ± 0.2878
pull
Entries 102
Mean 82.24
Std Dev 380.2

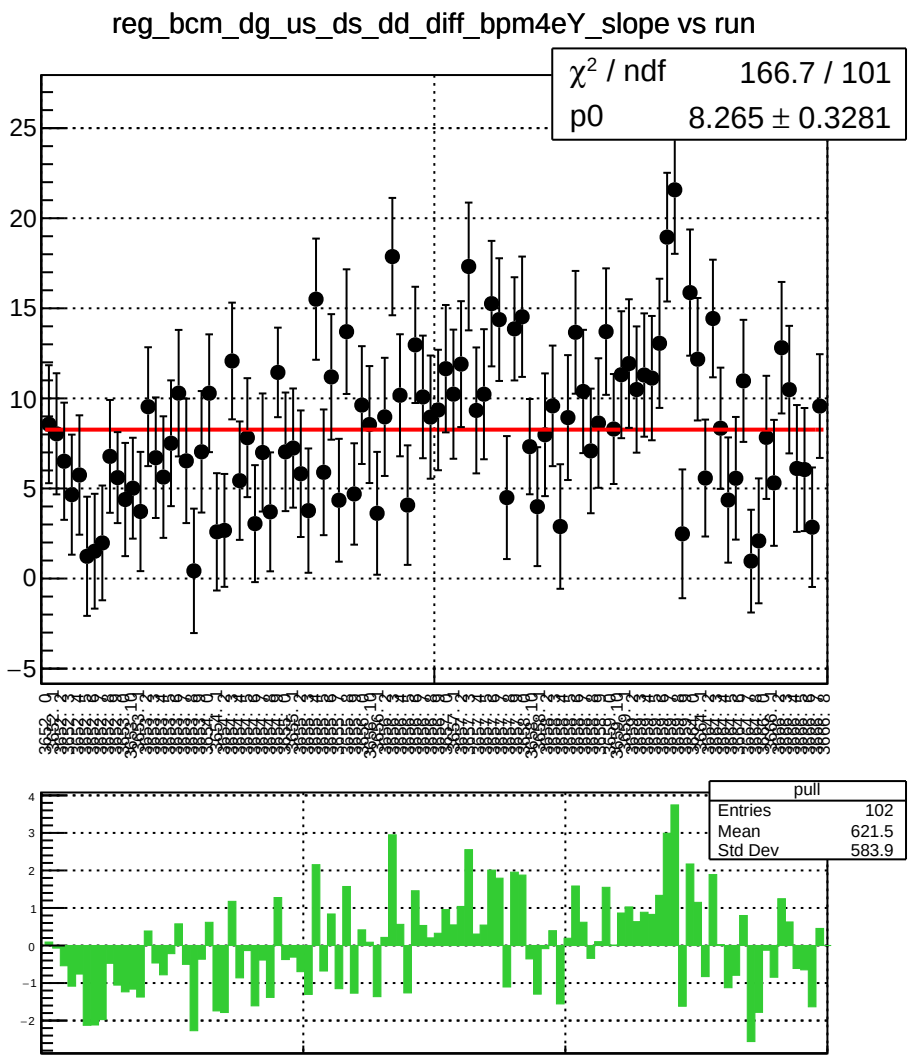

pull1D
Entries 102
Mean 0.001171
Std Dev 1.177

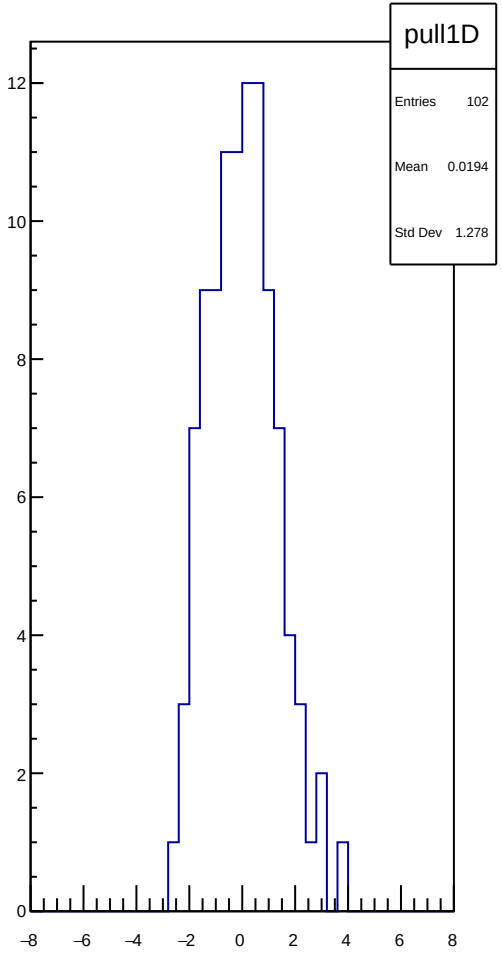

reg_bcm_dg_us_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 164.5 / 101
p0 −5.152 ± 0.2086
pull
Entries 102
Mean 612.9
Std Dev 575.2

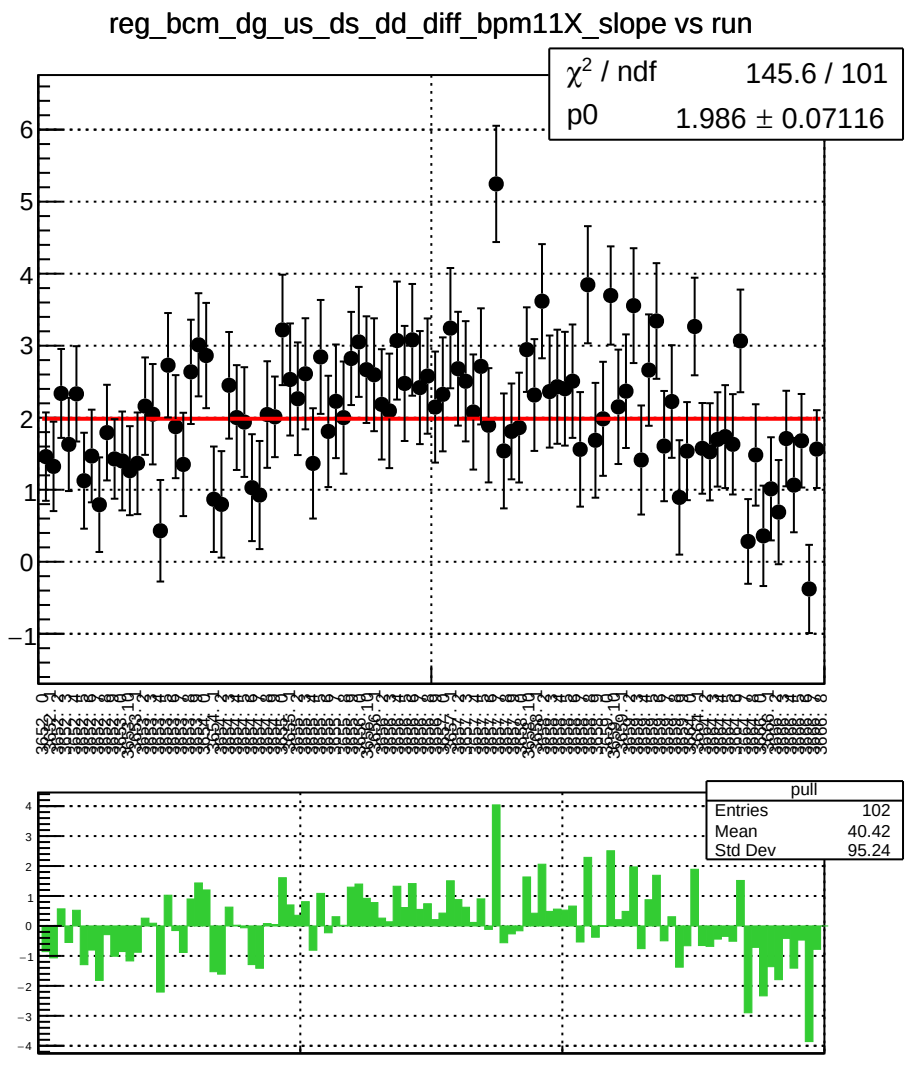

pull1D
Entries 102
Mean −0.01837
Std Dev 1.27

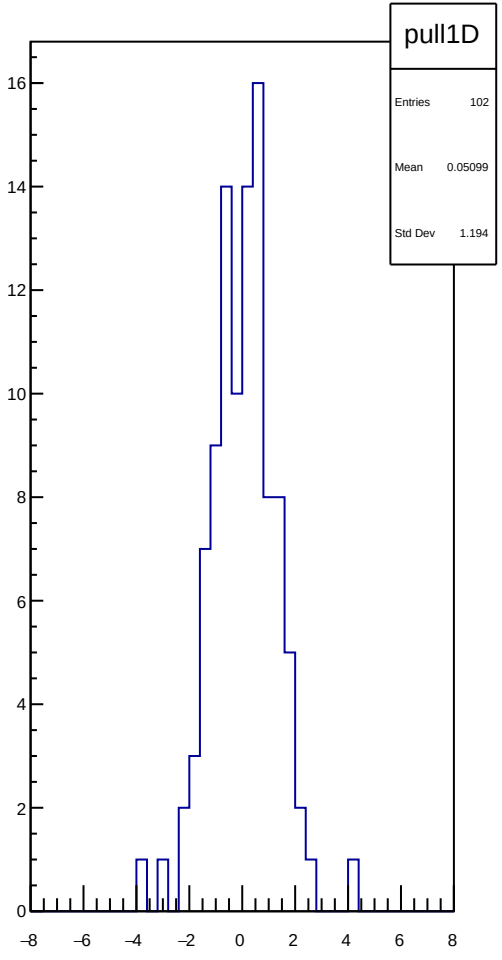

reg_bcm_dg_us_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 133.7 / 101
p0 0.5691± 0.05547
pull
Entries 102
Mean 332
Std Dev 294.9

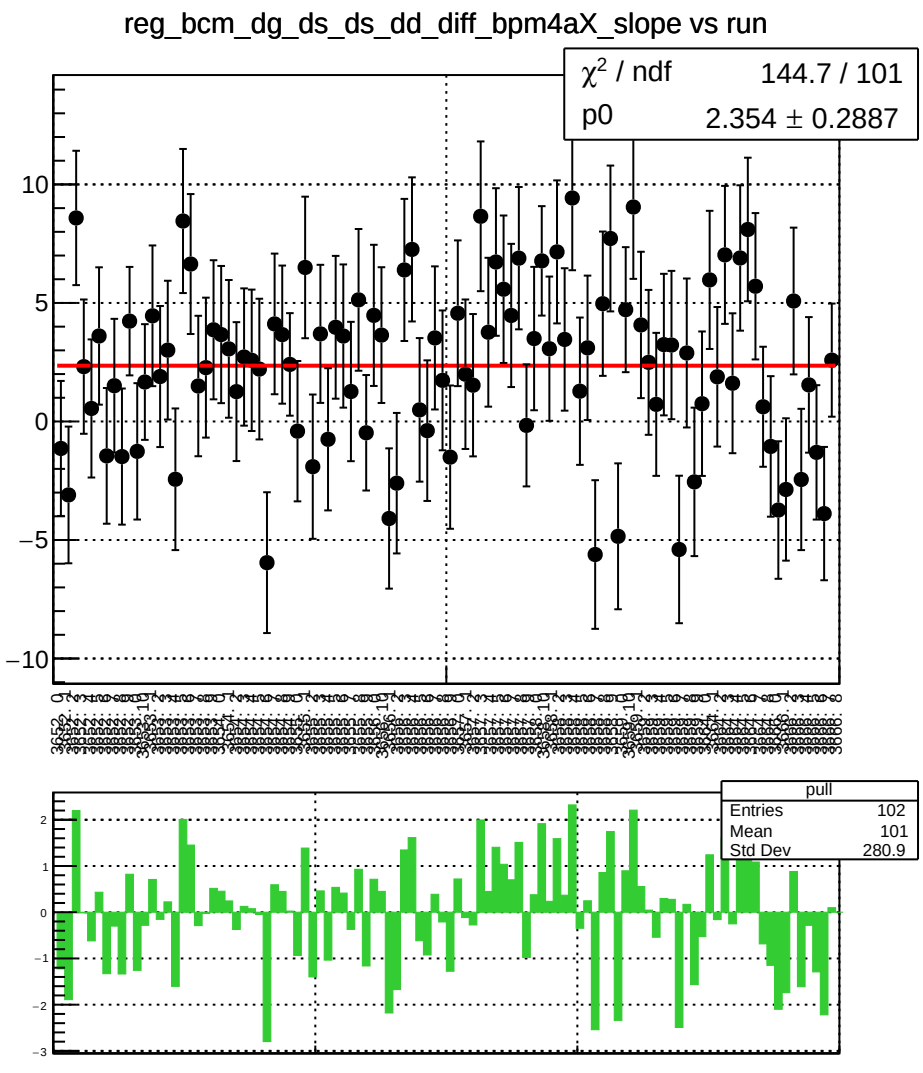

pull1D
Entries 102
Mean 0.01666
Std Dev 1.145

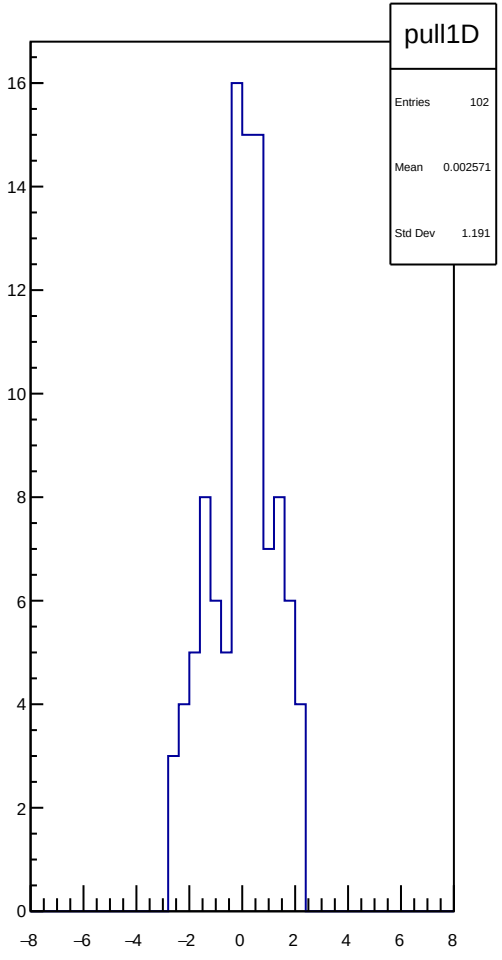

reg_bcm_dg_us_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 166.7 / 101
p0 8.265 ± 0.3281
pull
Entries 102
Mean 621.5
Std Dev 583.9

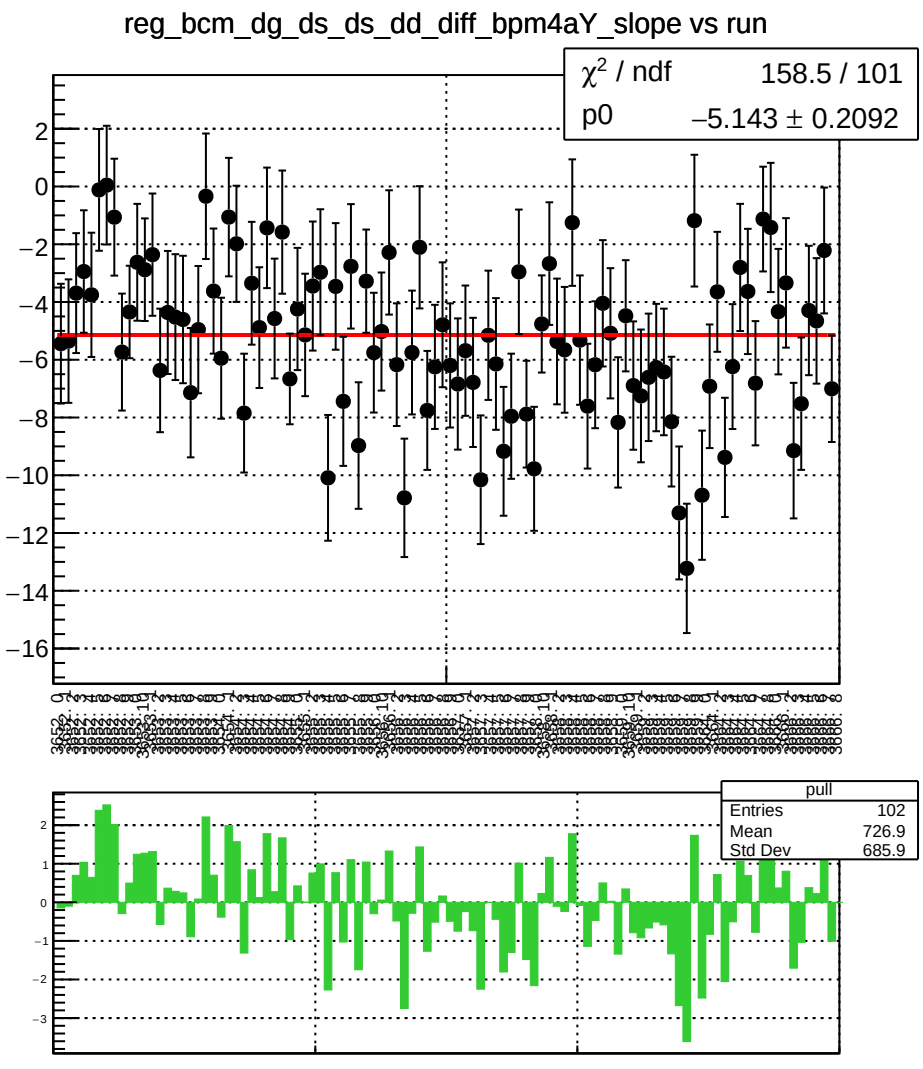

pull1D
Entries 102
Mean 0.0194
Std Dev 1.278

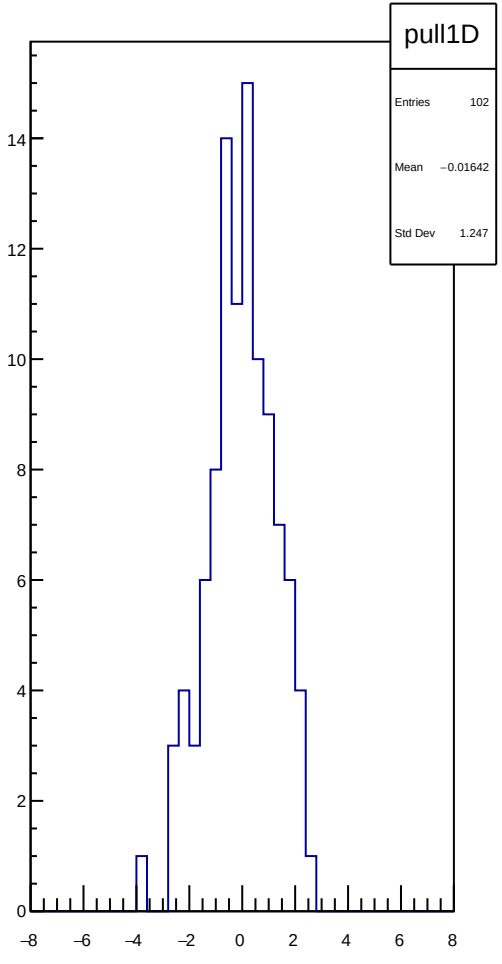

reg_bcm_dg_us_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 145.6 / 101
p0 1.986 ± 0.07116
pull
Entries 102
Mean 40.42
Std Dev 95.24

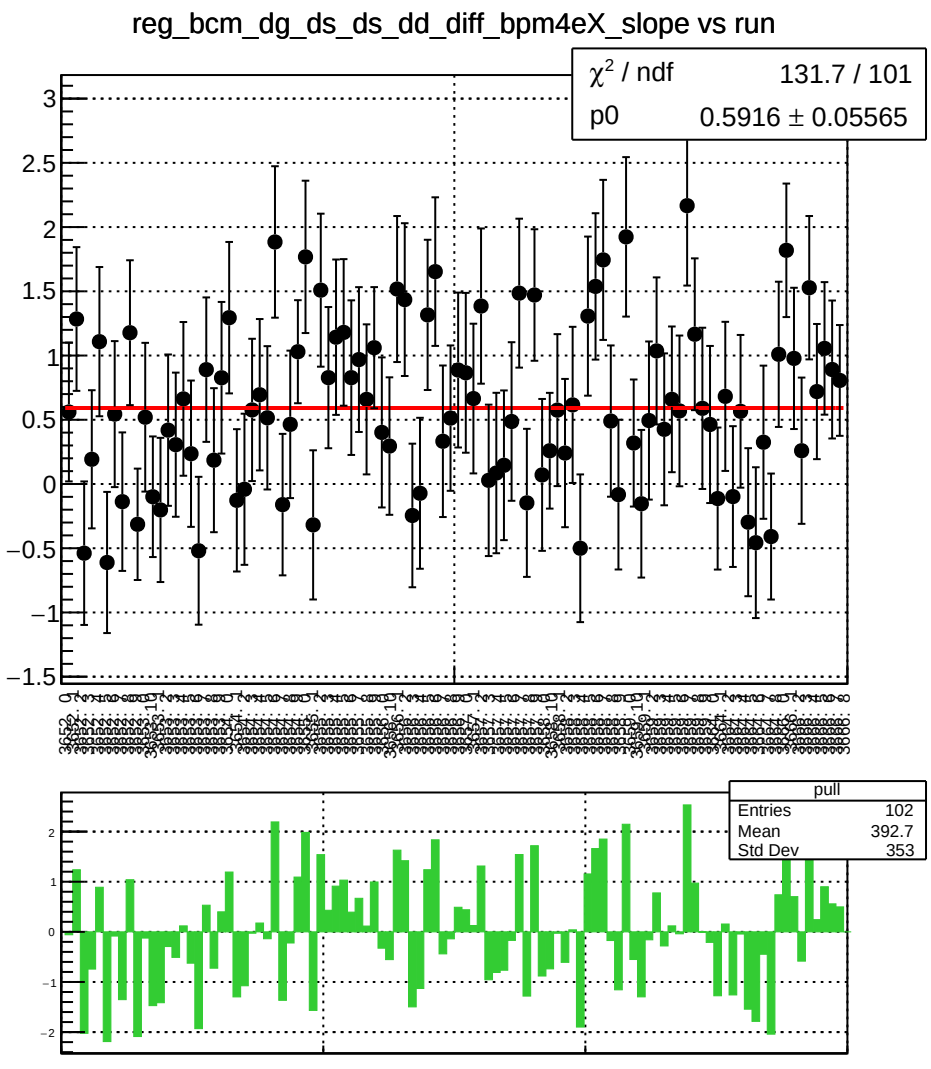

pull1D
Entries 102
Mean 0.05099
Std Dev 1.194

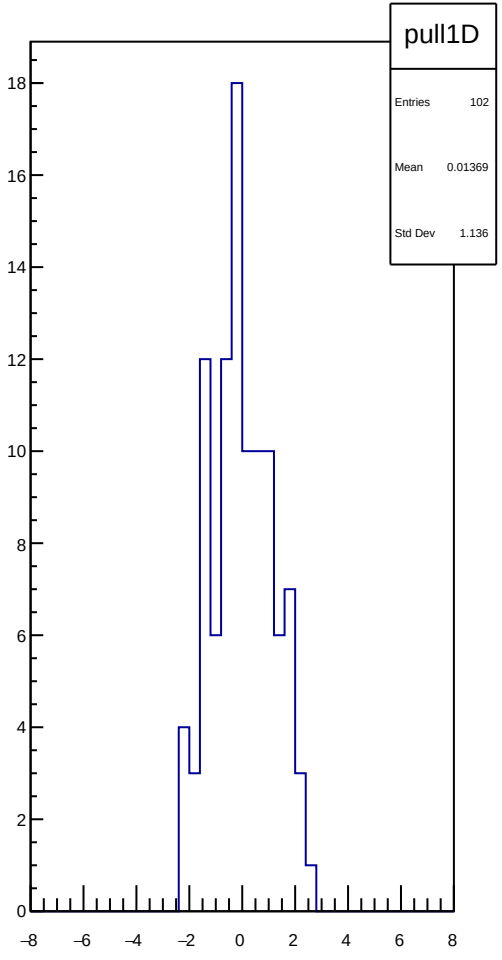

reg_bcm_dg_ds_ds_dd_diff_bpm4aX_slope vs run
χ² / ndf 144.7 / 101
p0 2.354 ± 0.2887
pull
Entries 102
Mean 101
Std Dev 280.9

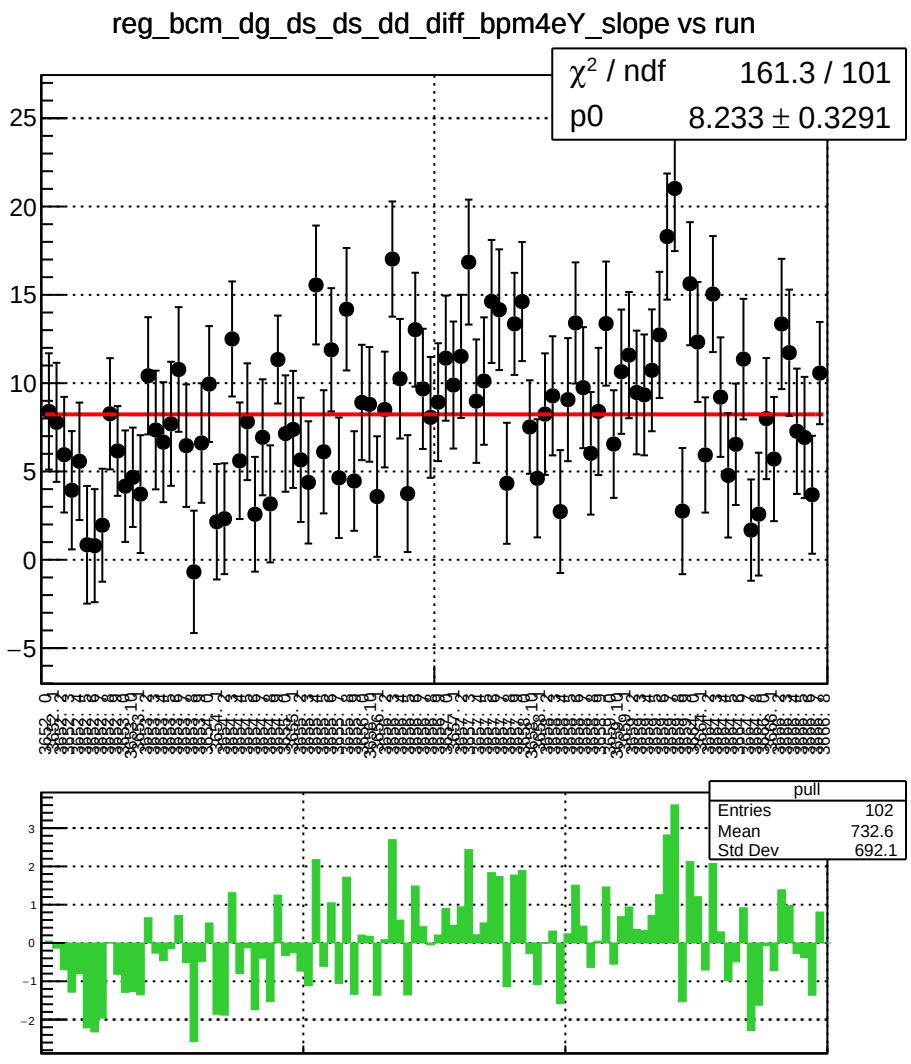

pull1D
Entries 102
Mean 0.002571
Std Dev 1.191

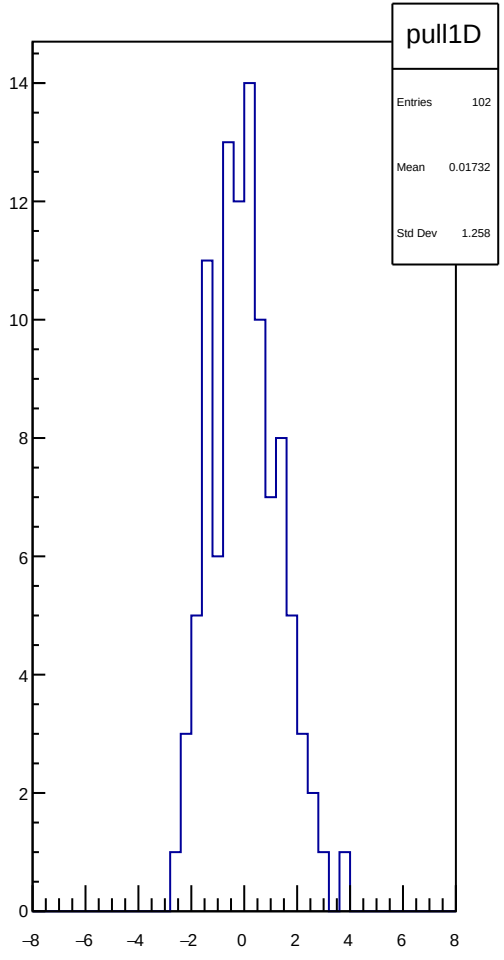

reg_bcm_dg_ds_ds_dd_diff_bpm4aY_slope vs run
χ² / ndf 158.5 / 101
p0 −5.143 ± 0.2092
pull
Entries 102
Mean 726.9
Std Dev 685.9

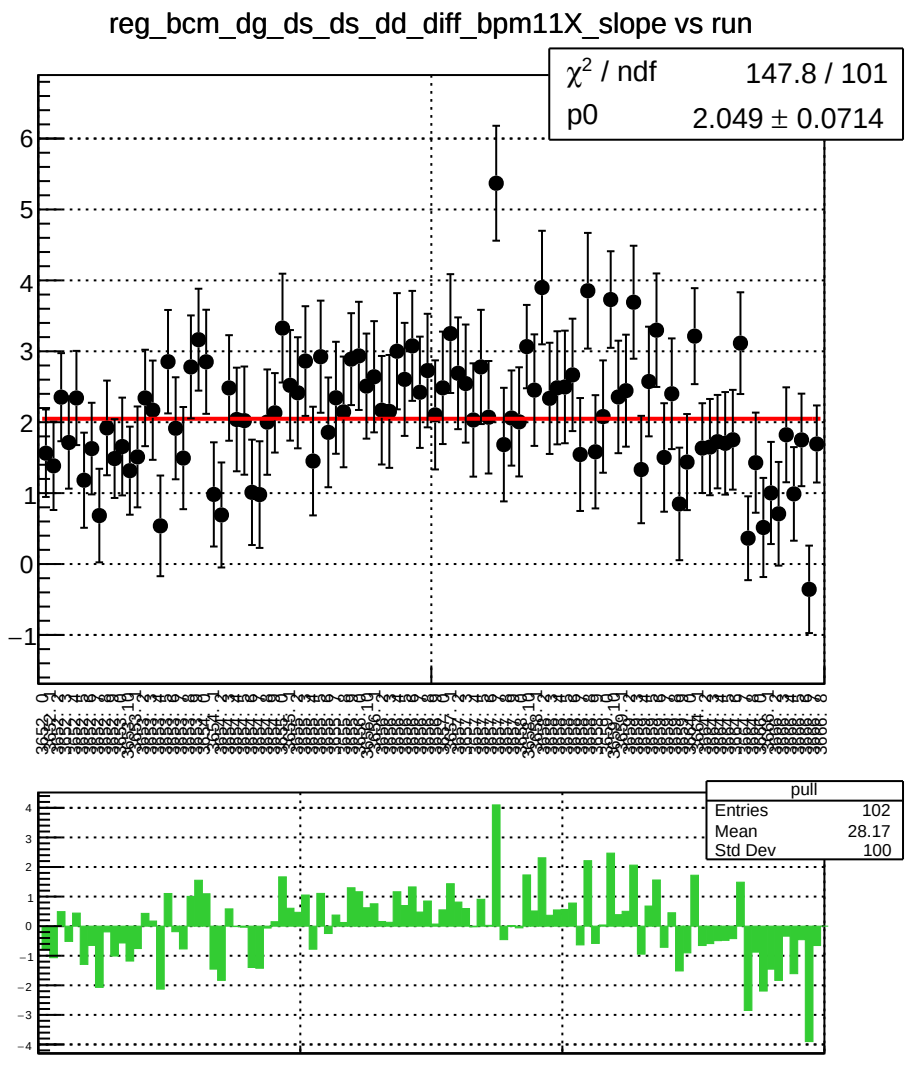

pull1D
Entries 102
Mean −0.01642
Std Dev 1.247

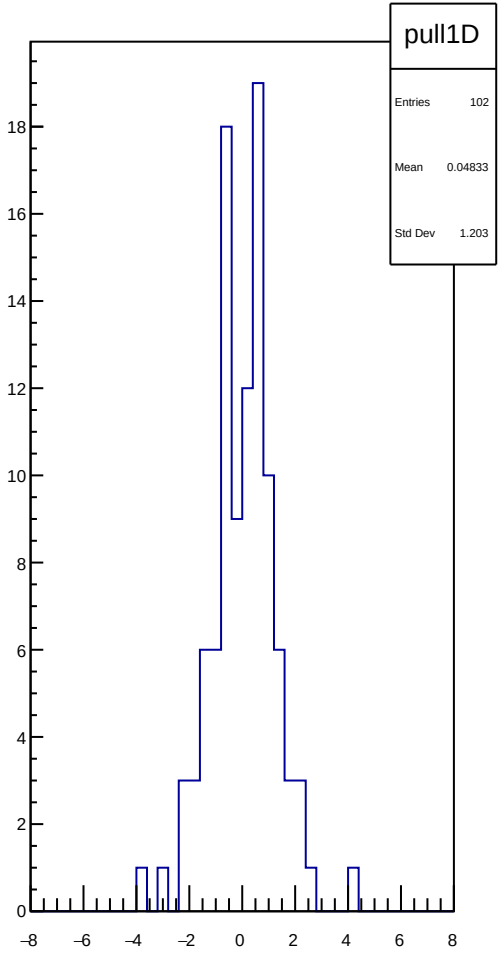

reg_bcm_dg_ds_ds_dd_diff_bpm4eX_slope vs run
χ² / ndf 131.7 / 101
p0 0.5916 ± 0.05565
pull
Entries 102
Mean 392.7
Std Dev 353

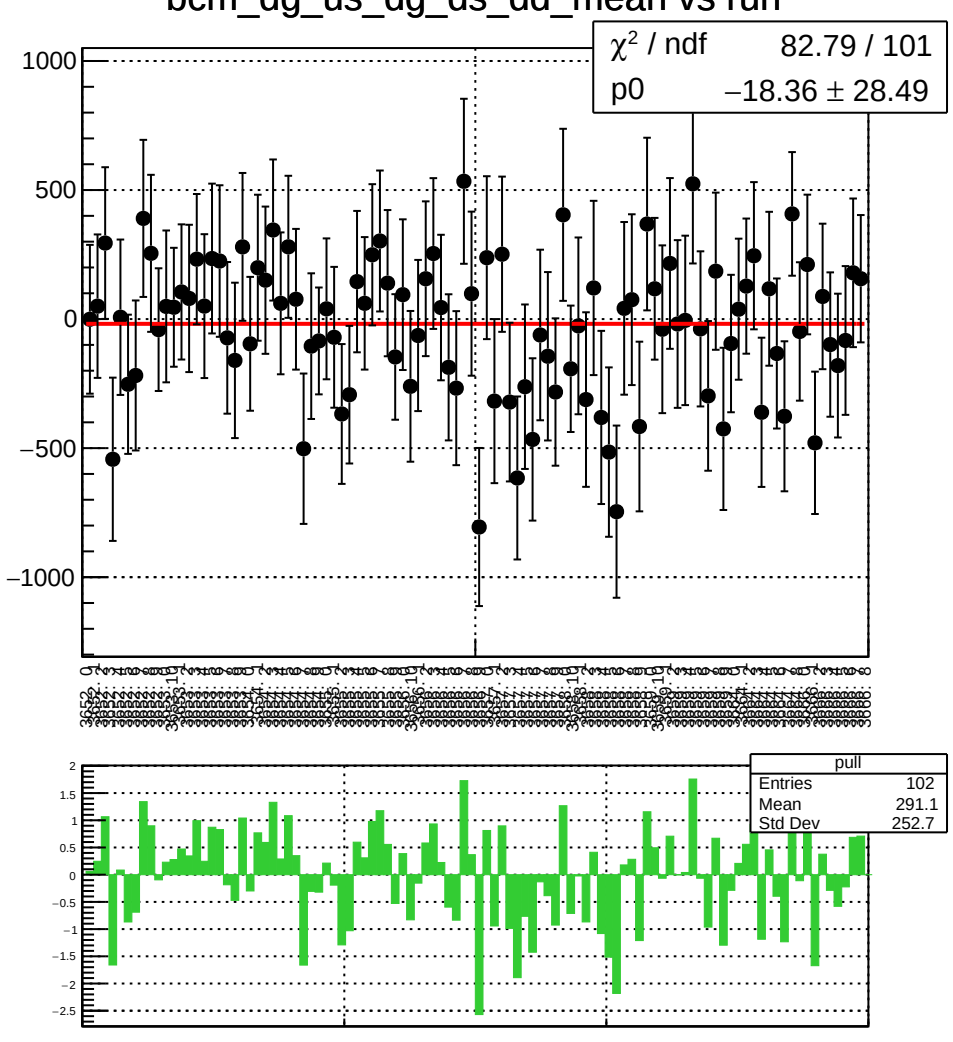

pull1D
Entries 102
Mean 0.01369
Std Dev 1.136

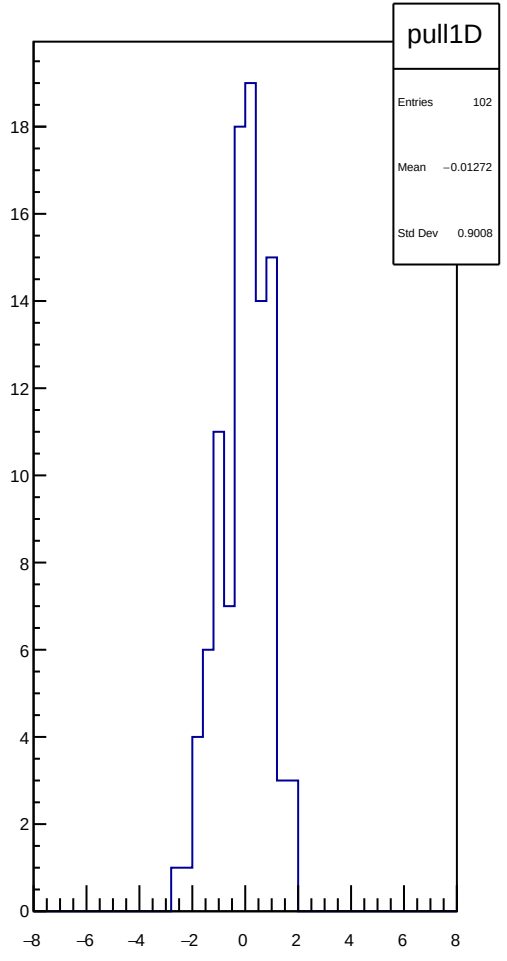

reg_bcm_dg_ds_ds_dd_diff_bpm4eY_slope vs run
χ² / ndf 161.3 / 101
p0 8.233 ± 0.3291
pull
Entries 102
Mean 732.6
Std Dev 692.1

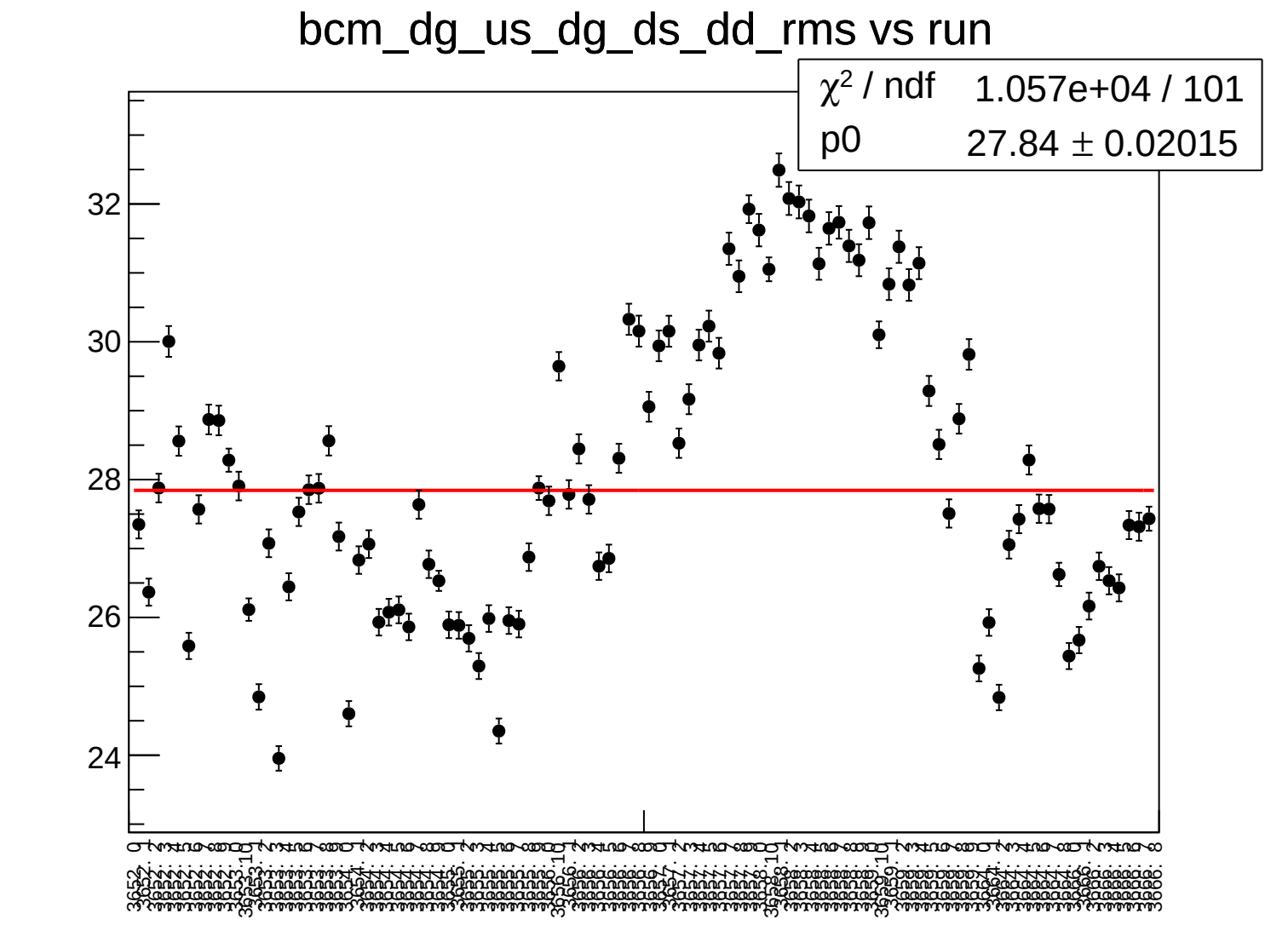

pull1D
Entries 102
Mean 0.01732
Std Dev 1.258


reg_bcm_dg_ds_ds_dd_diff_bpm11X_slope vs run
χ² / ndf 147.8 / 101
p0 2.049 ± 0.0714
pull
Entries 102
Mean 28.17
Std Dev 100


pull1D
Entries 102
Mean 0.04833
Std Dev 1.203


bcm_dg_us_dg_ds_dd_mean vs run
χ² / ndf 82.79 / 101
p0 −18.36 ± 28.49
1000
500
0
−500
−1000
pull
Entries 102
Mean 291.1
Std Dev 252.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5


pull1D
Entries 102
Mean −0.01272
Std Dev 0.9008
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


bcm_dg_us_dg_ds_dd_rms vs run
χ² / ndf 1.057e+04 / 101
p0 27.84 ± 0.02015
32
30
28
26
24