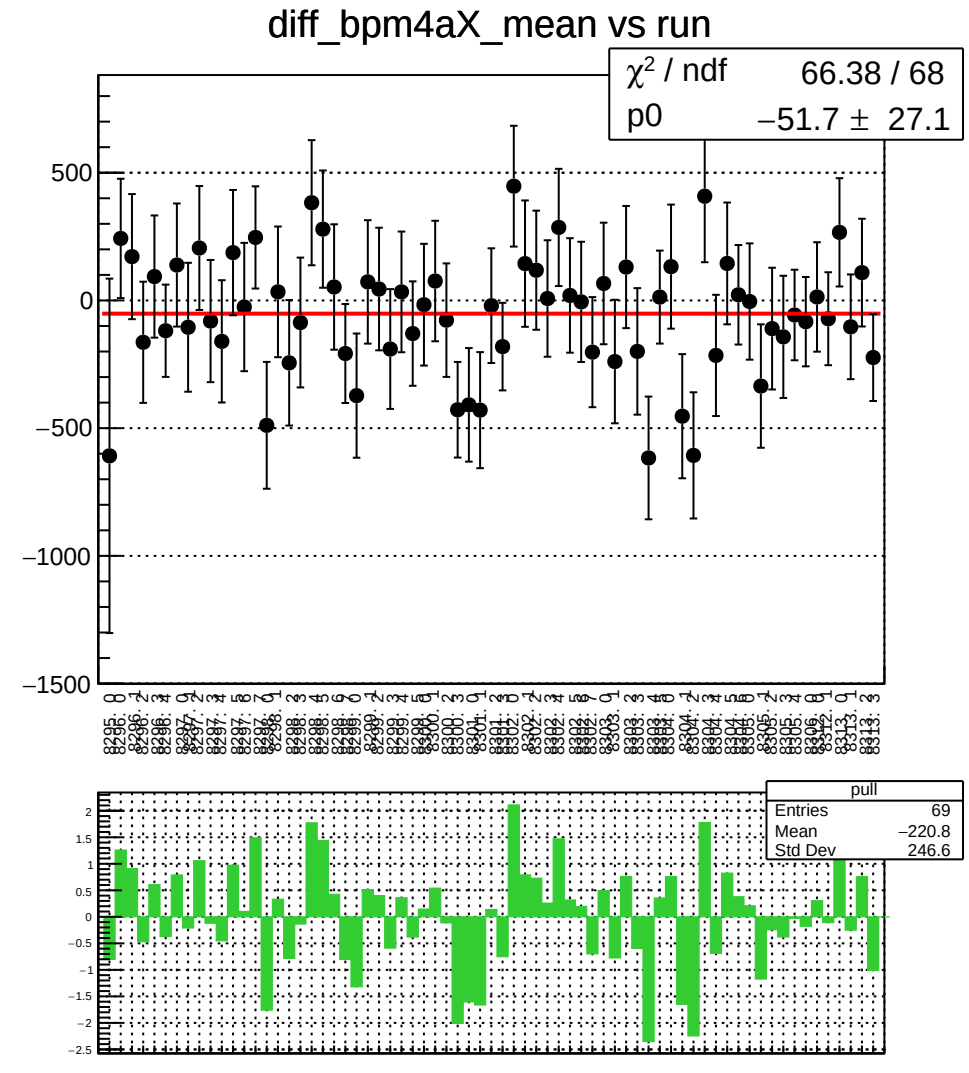
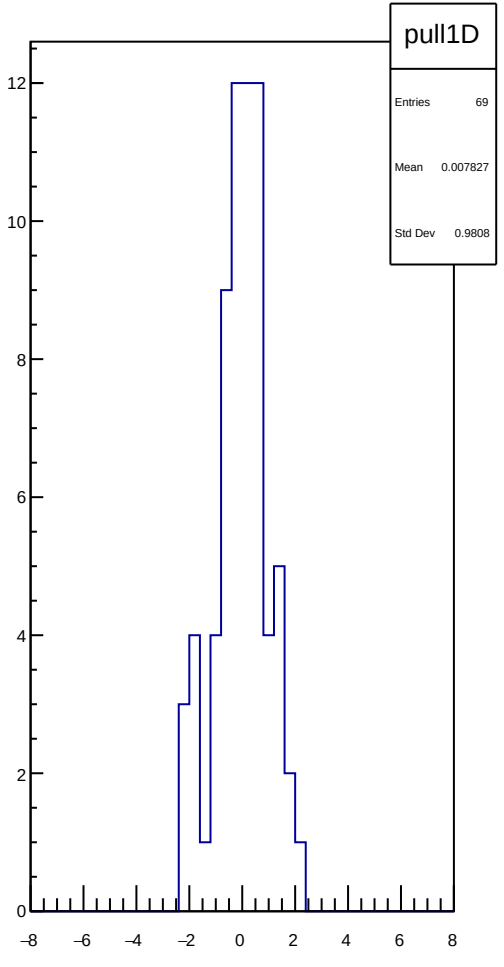
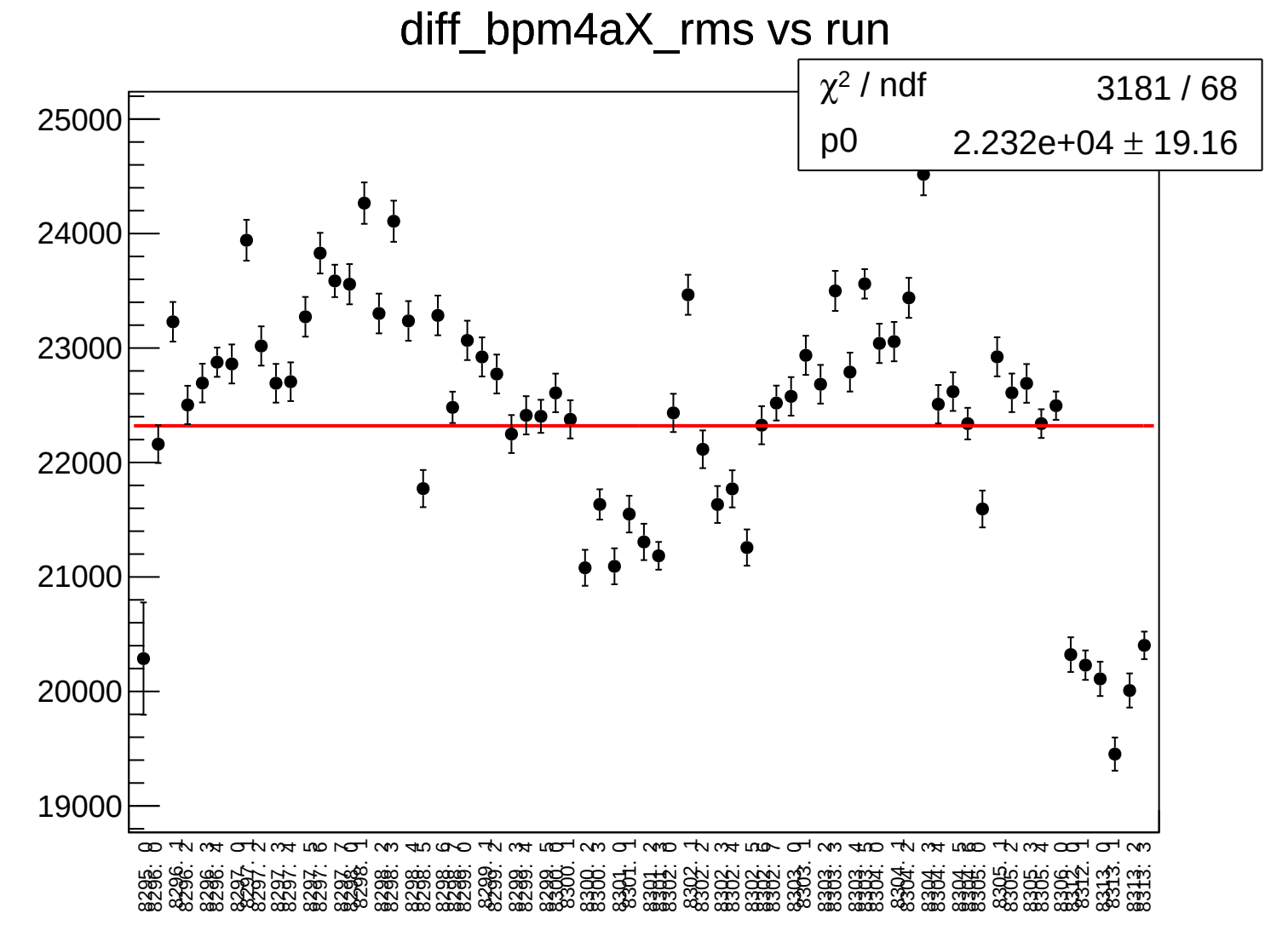
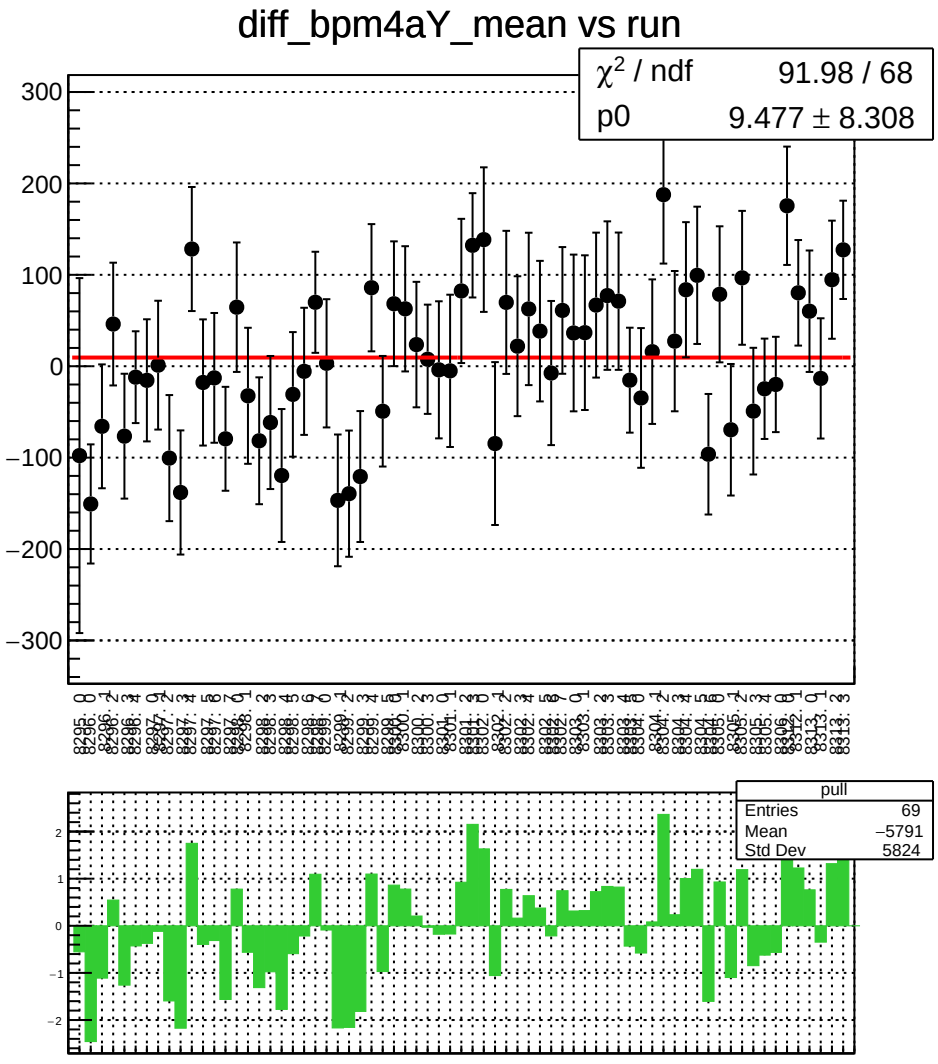
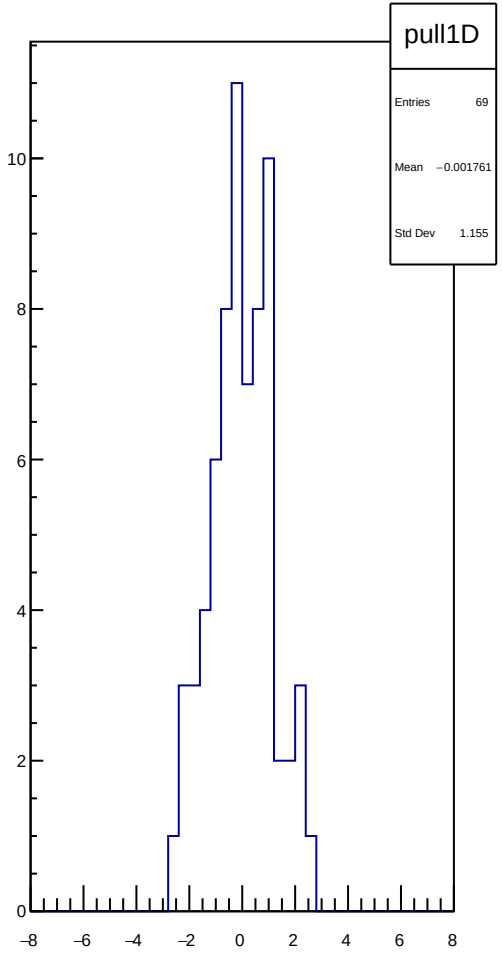
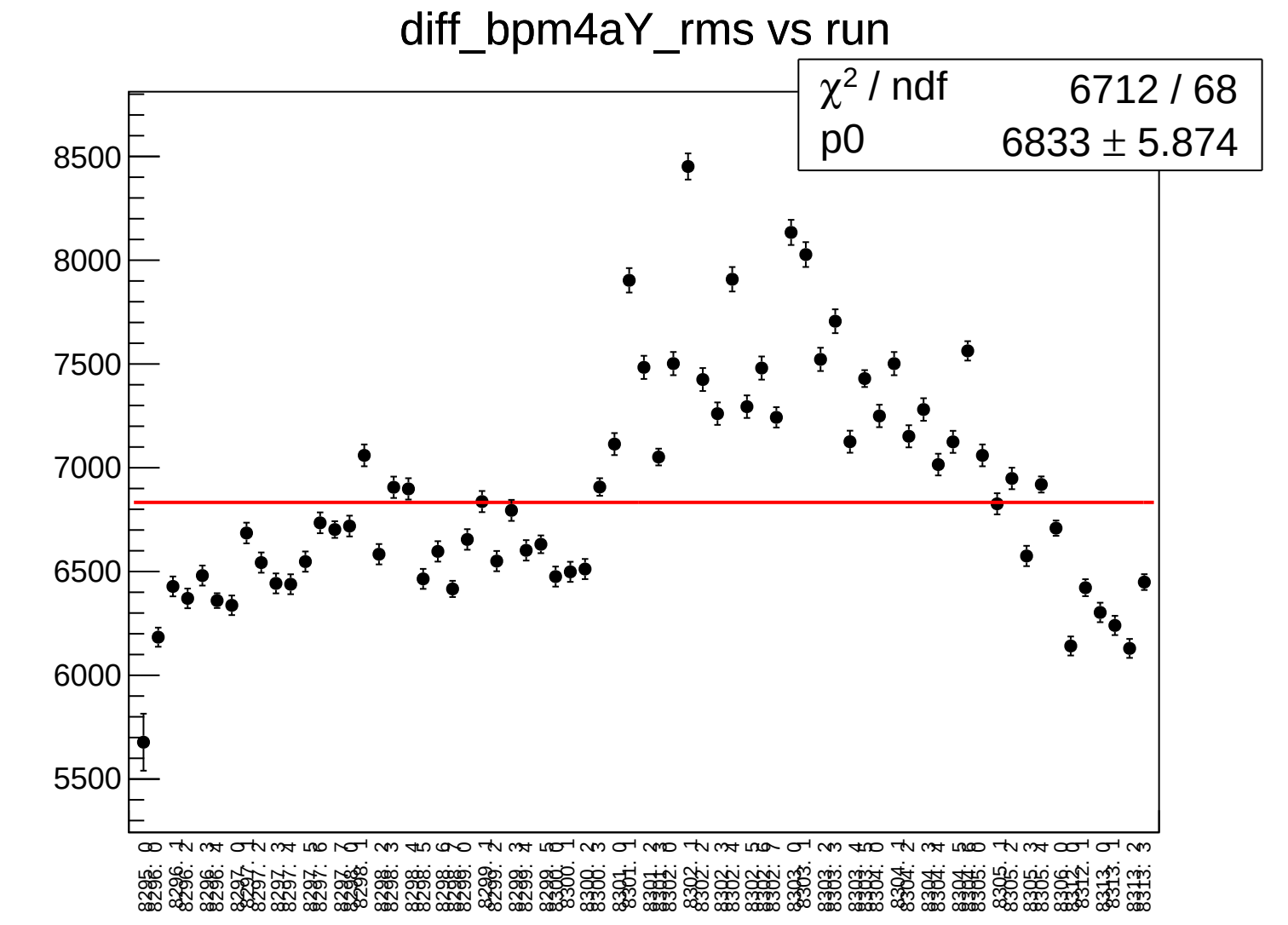

diff_bpm4aX_mean vs run
χ² / ndf 66.38 / 68
p0 −51.7 ± 27.1
500
0
−500
−1000
−1500
pull
Entries 69
Mean −220.8
Std Dev 246.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

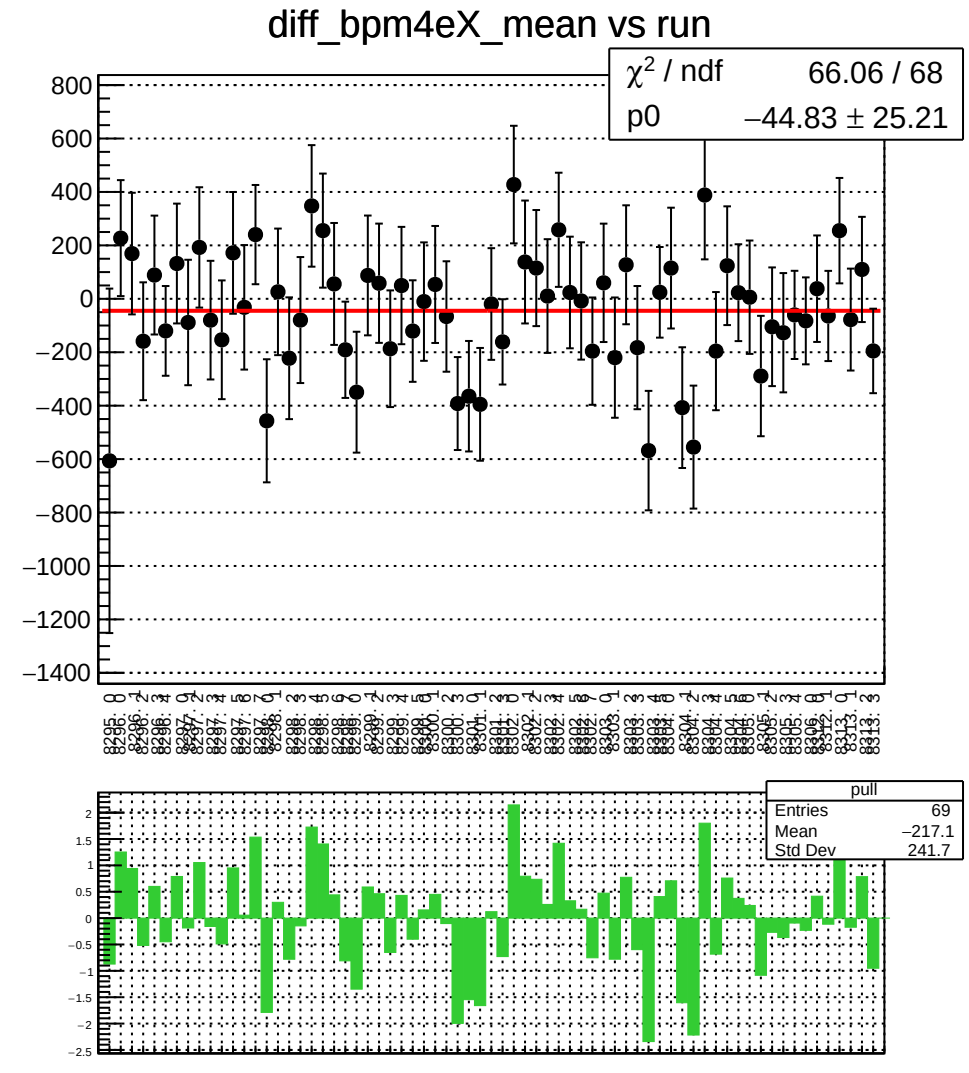

pull1D
Entries 69
Mean 0.007827
Std Dev 0.9808
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

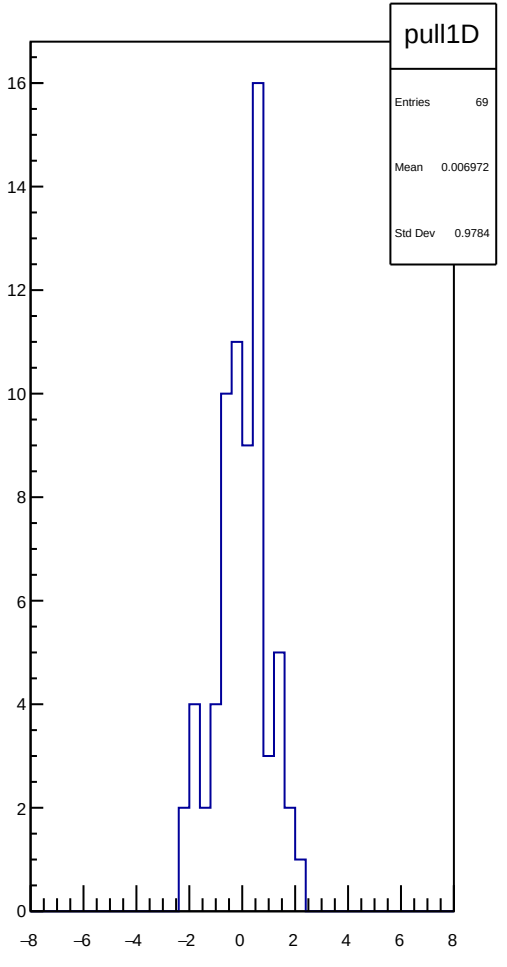

diff_bpm4aX_rms vs run
χ² / ndf 3181 / 68
p0 2.232e+04 ± 19.16
25000
24000
23000
22000
21000
20000
19000

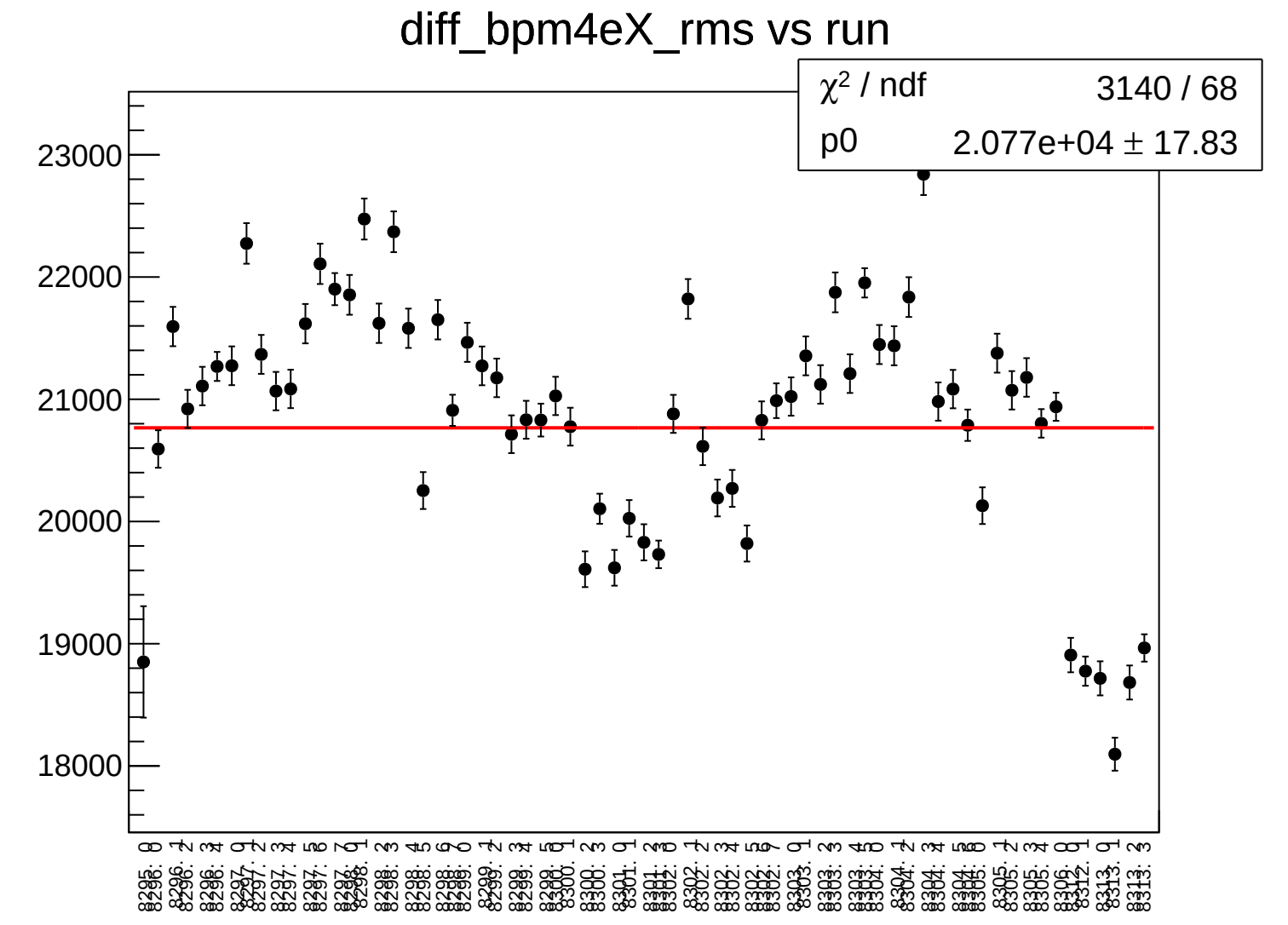

diff_bpm4aY_mean vs run
χ² / ndf 91.98 / 68
p0 9.477 ± 8.308
300
200
100
0
−100
−200
−300
pull
Entries 69
Mean −5791
Std Dev 5824
2
1
0
−1
−2

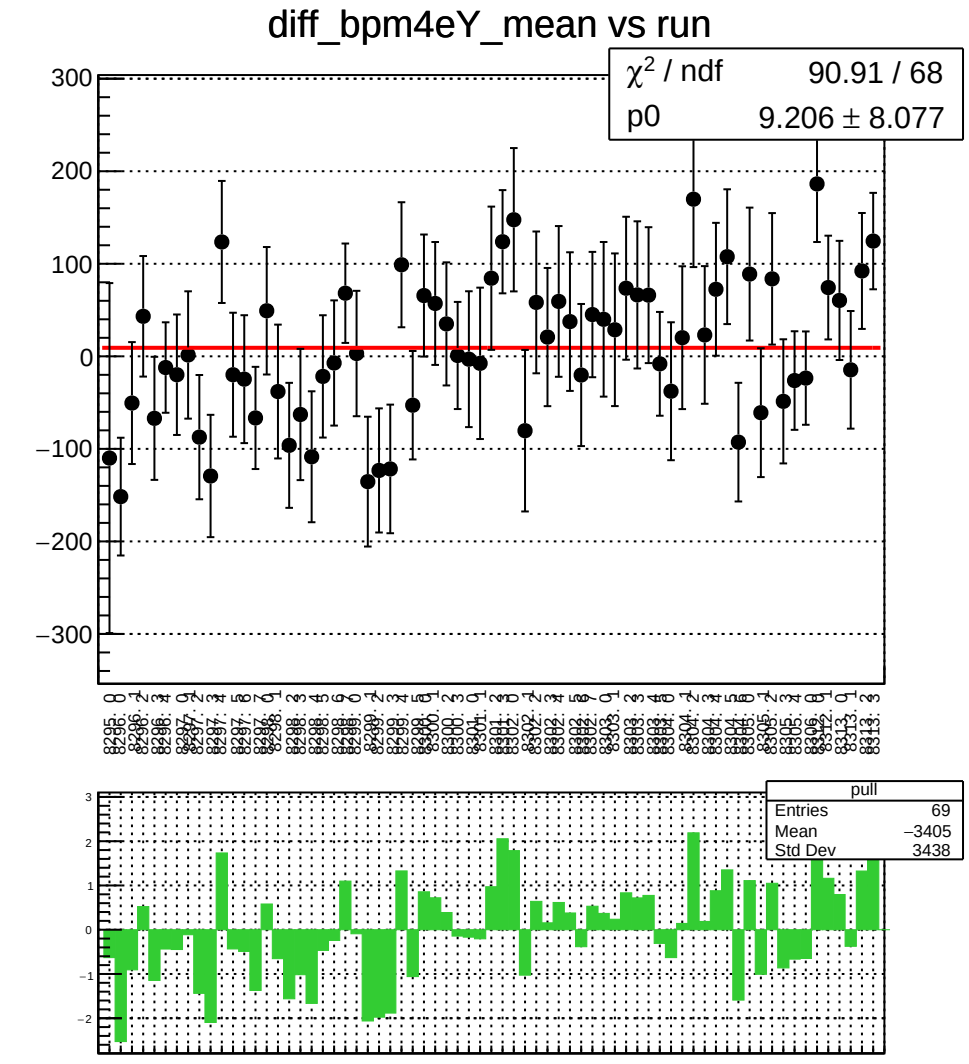

pull1D
Entries 69
Mean −0.001761
Std Dev 1.155
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

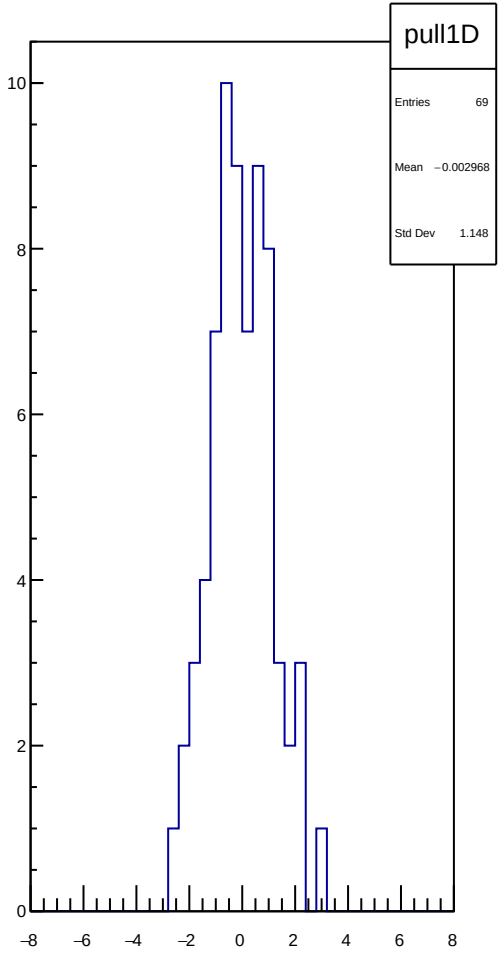

diff_bpm4aY_rms vs run
χ² / ndf 6712 / 68
p0 6833 ± 5.874
8500
8000
7500
7000
6500
6000
5500

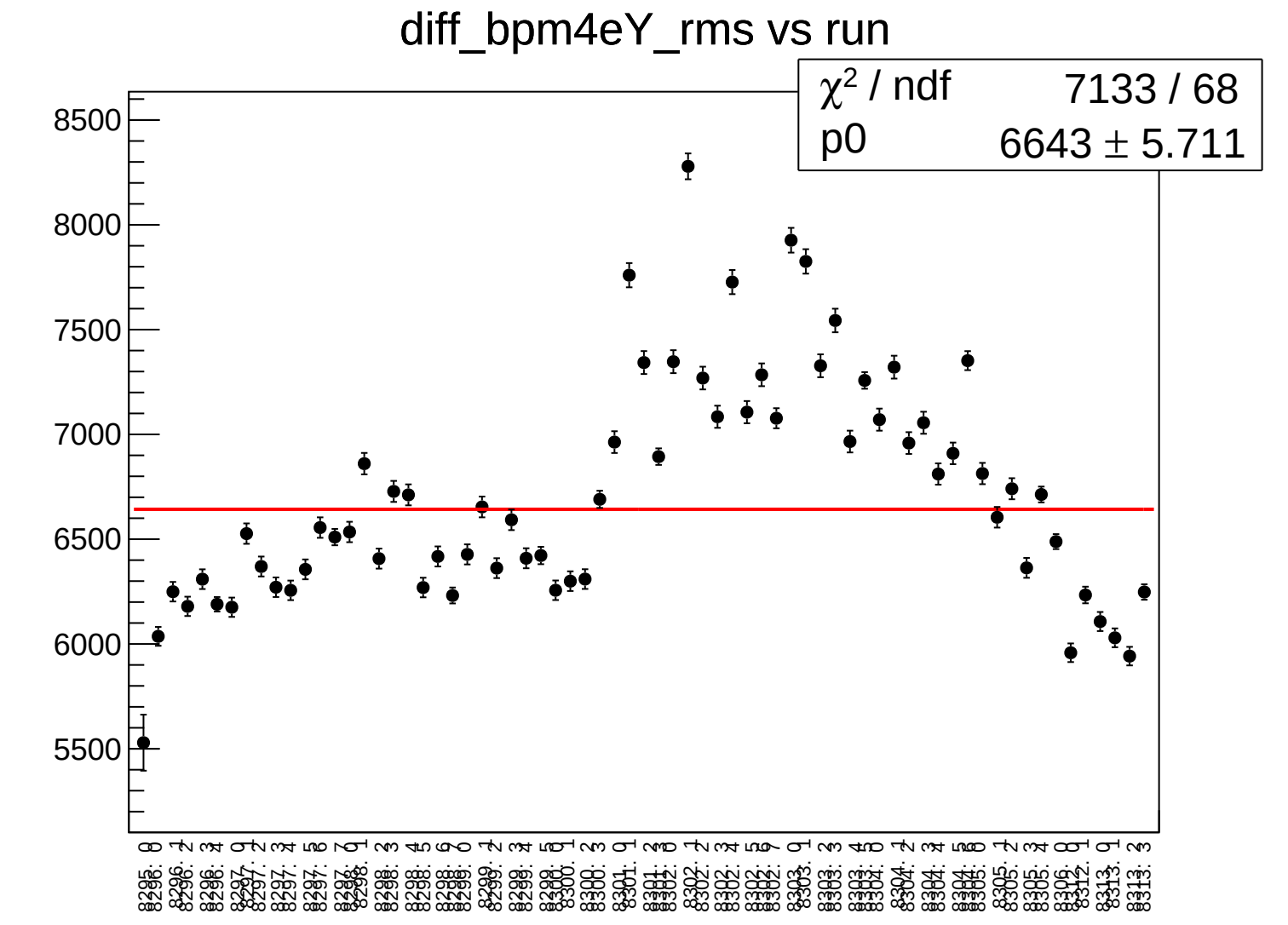

diff_bpm4eX_mean vs run
χ² / ndf 66.06 / 68
p0 −44.83 ± 25.21
pull
Entries 69
Mean −217.1
Std Dev 241.7

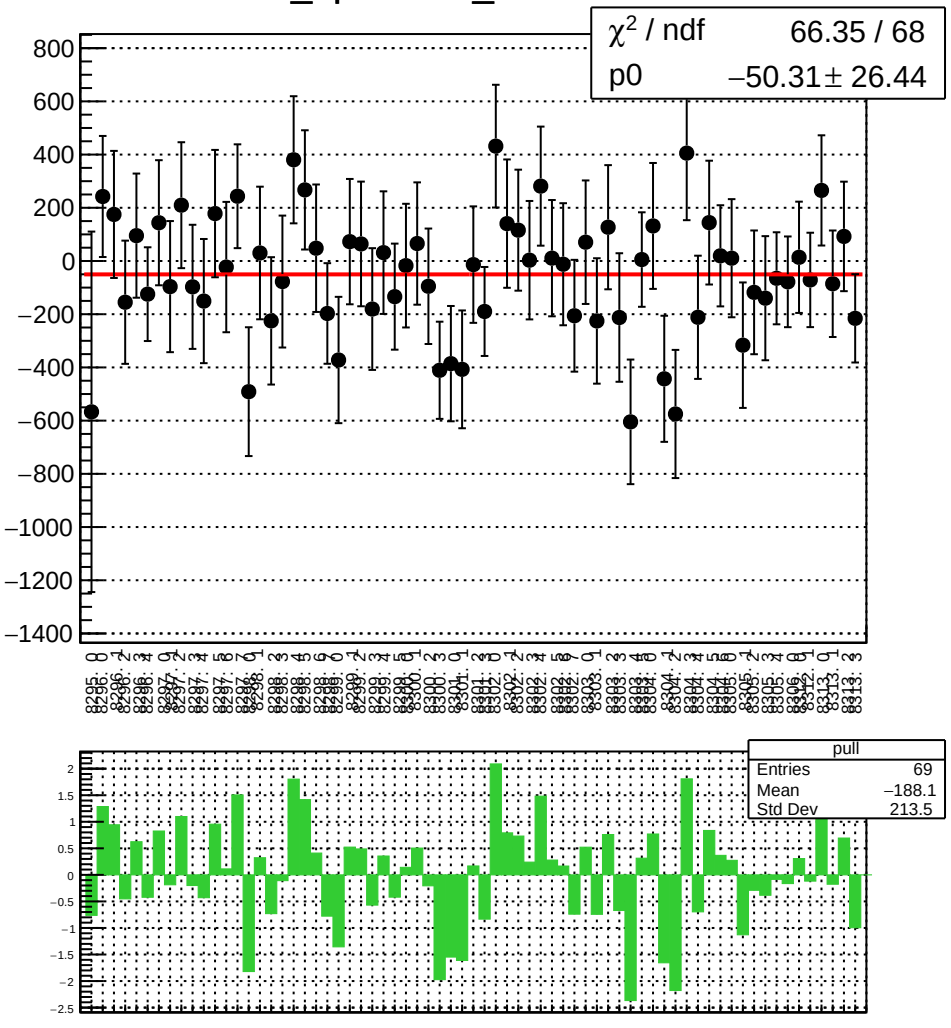

pull1D
Entries 69
Mean 0.006972
Std Dev 0.9784

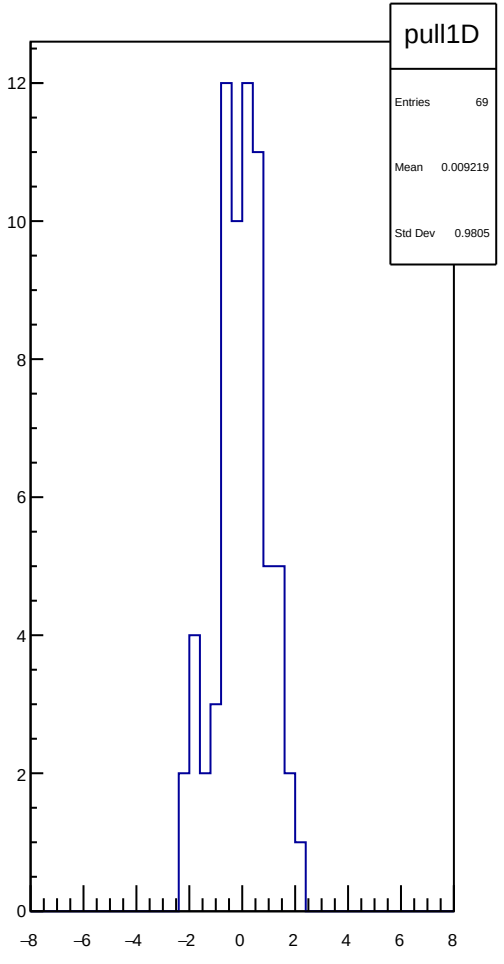

diff_bpm4eX_rms vs run
χ² / ndf 3140 / 68
p0 2.077e+04 ± 17.83
23000
22000
21000
20000
19000
18000

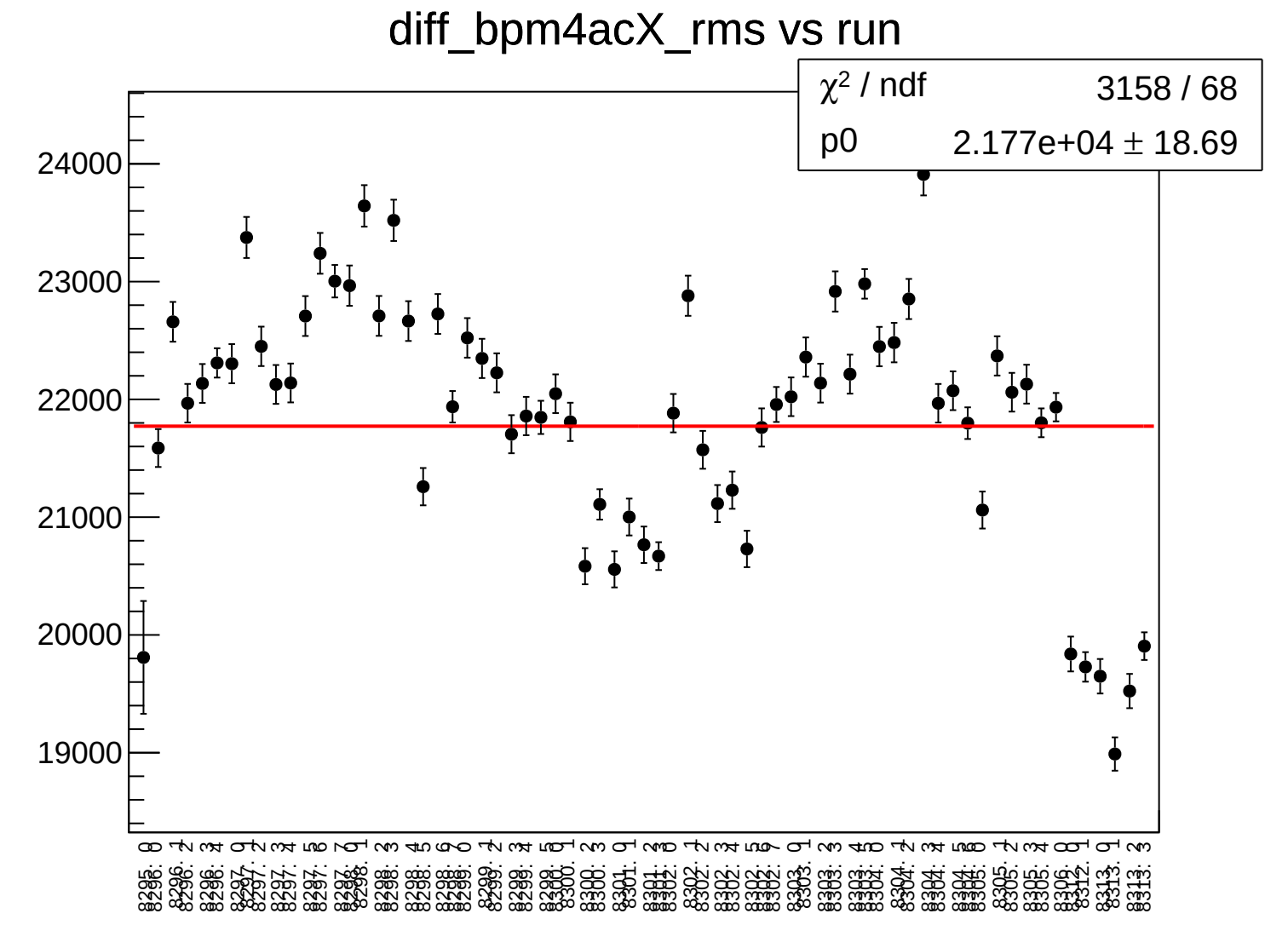

diff_bpm4eY_mean vs run
χ^2 / ndf 90.91 / 68
p0 9.206 ± 8.077
pull
Entries 69
Mean −3405
Std Dev 3438

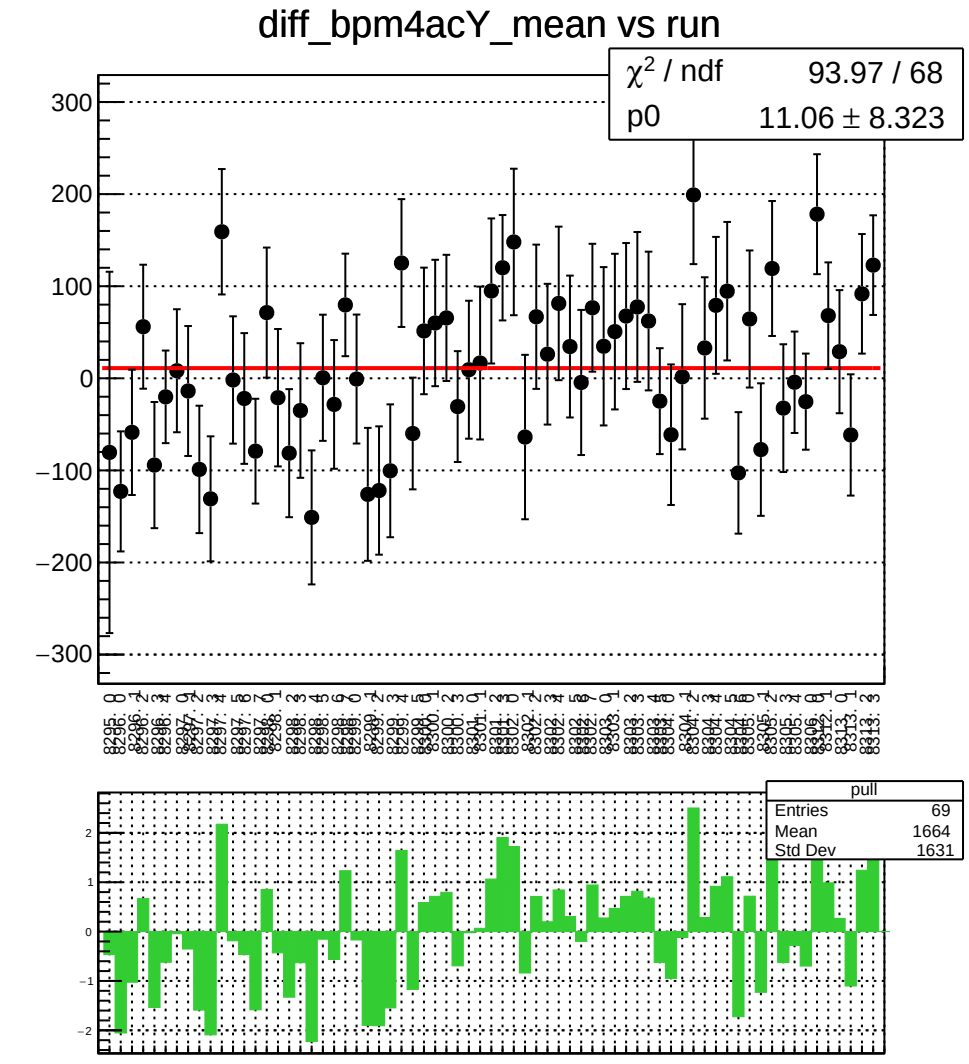

pull1D
Entries 69
Mean −0.002968
Std Dev 1.148

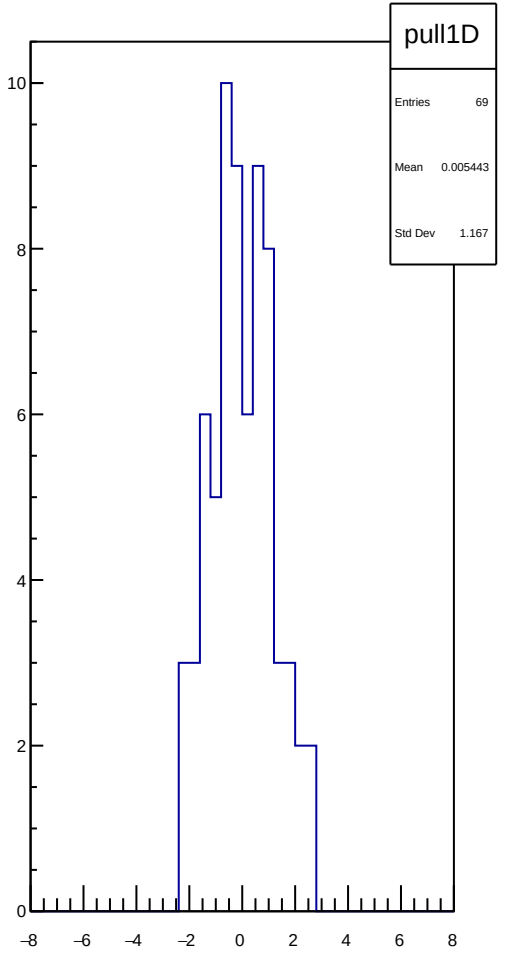

diff_bpm4eY_rms vs run
χ² / ndf 7133 / 68
p0 6643 ± 5.711
8500
8000
7500
7000
6500
6000
5500

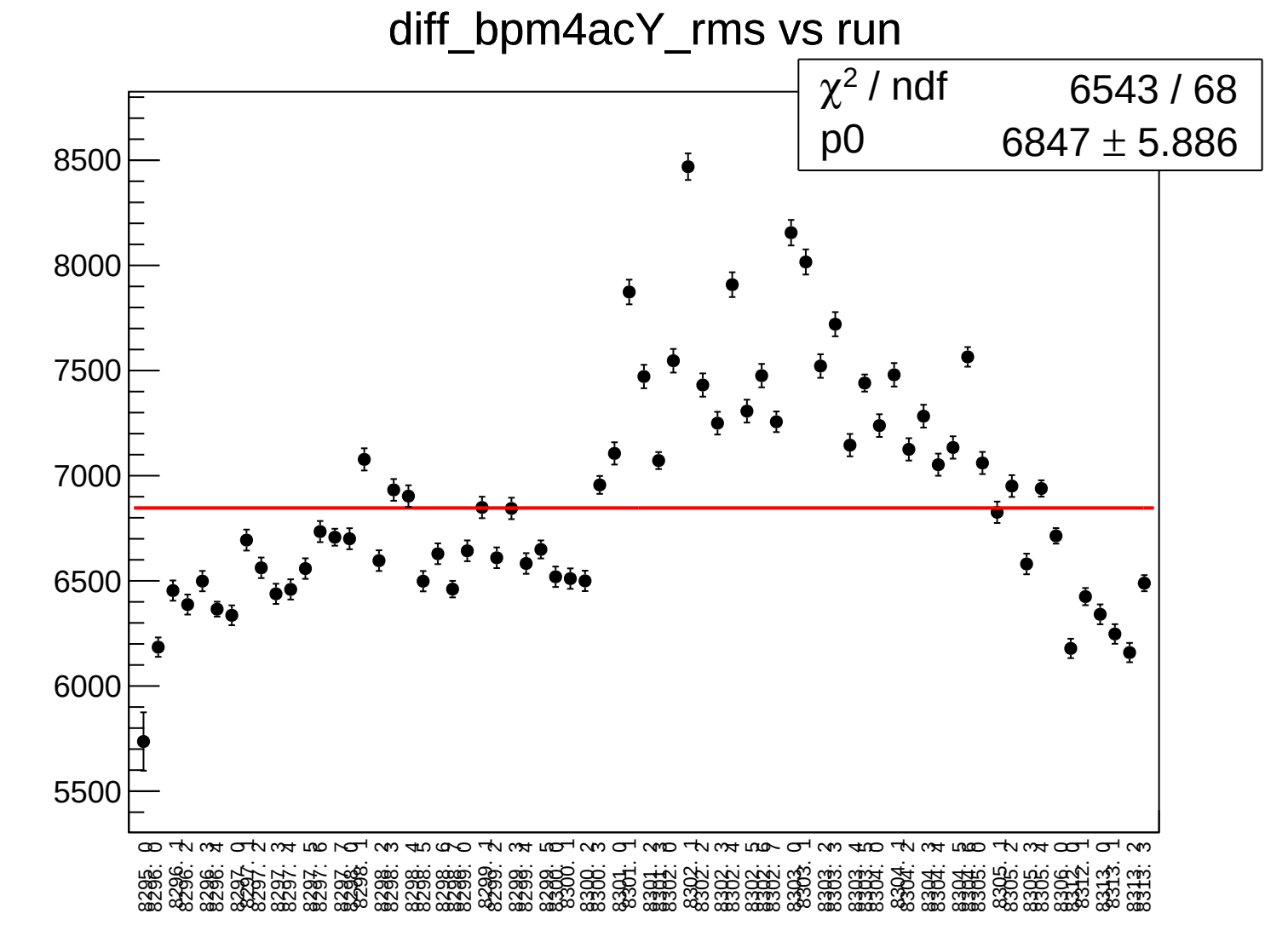

diff_bpm4acX_mean vs run
χ^2 / ndf 66.35 / 68
p0 −50.31 ± 26.44
pull
Entries 69
Mean −188.1
Std Dev 213.5

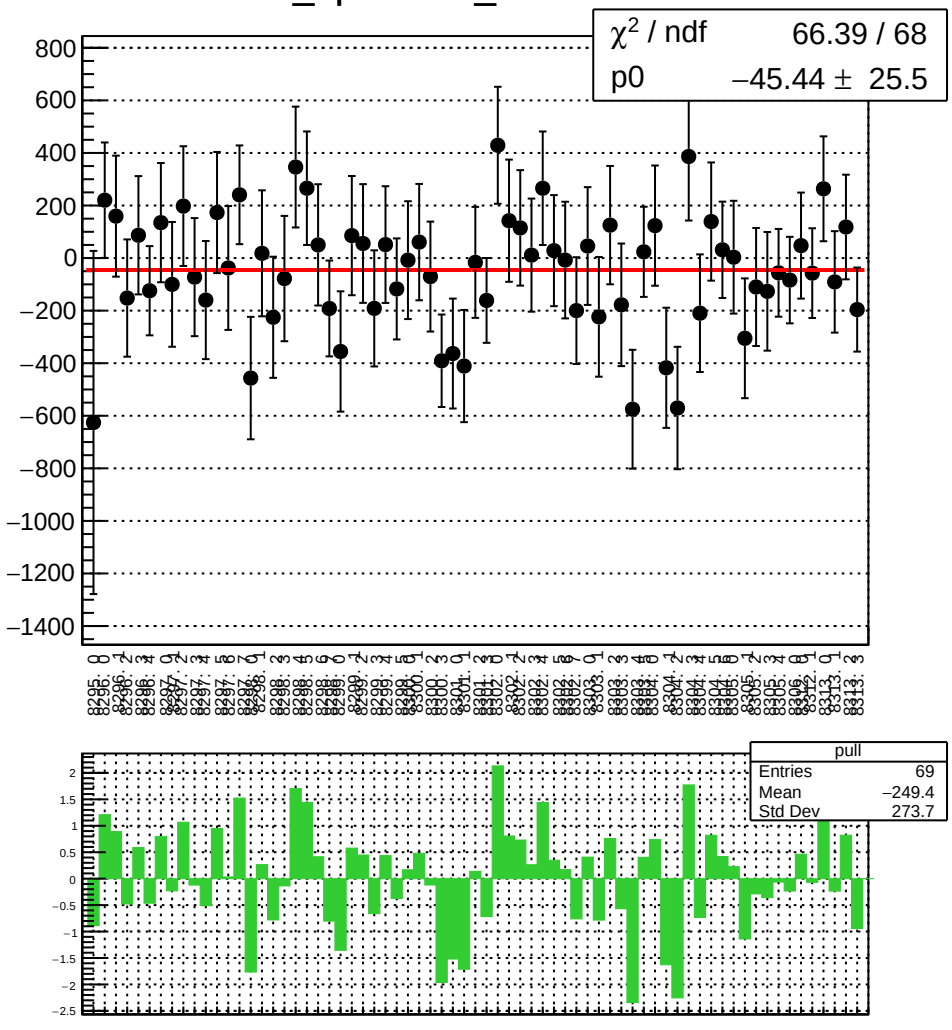

pull1D
Entries 69
Mean 0.009219
Std Dev 0.9805

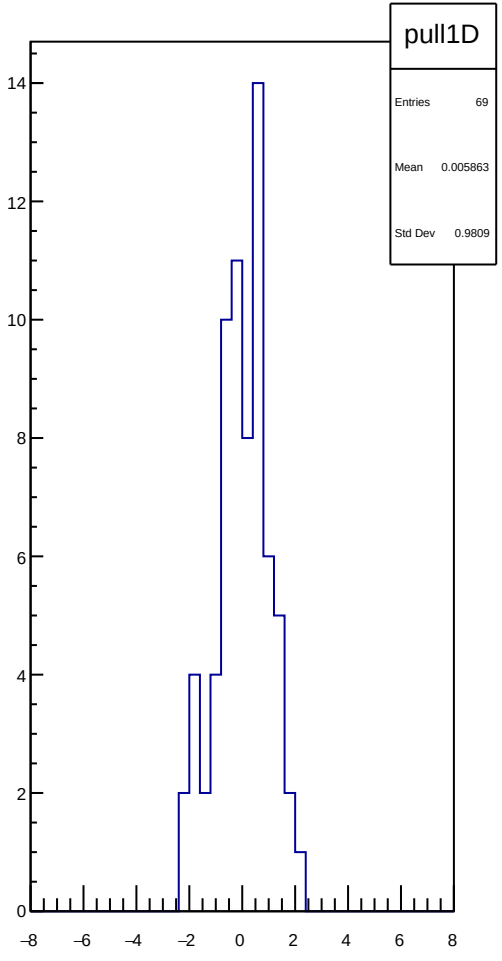

diff_bpm4acX_rms vs run
χ² / ndf 3158 / 68
p0 2.177e+04 ± 18.69
24000
23000
22000
21000
20000
19000

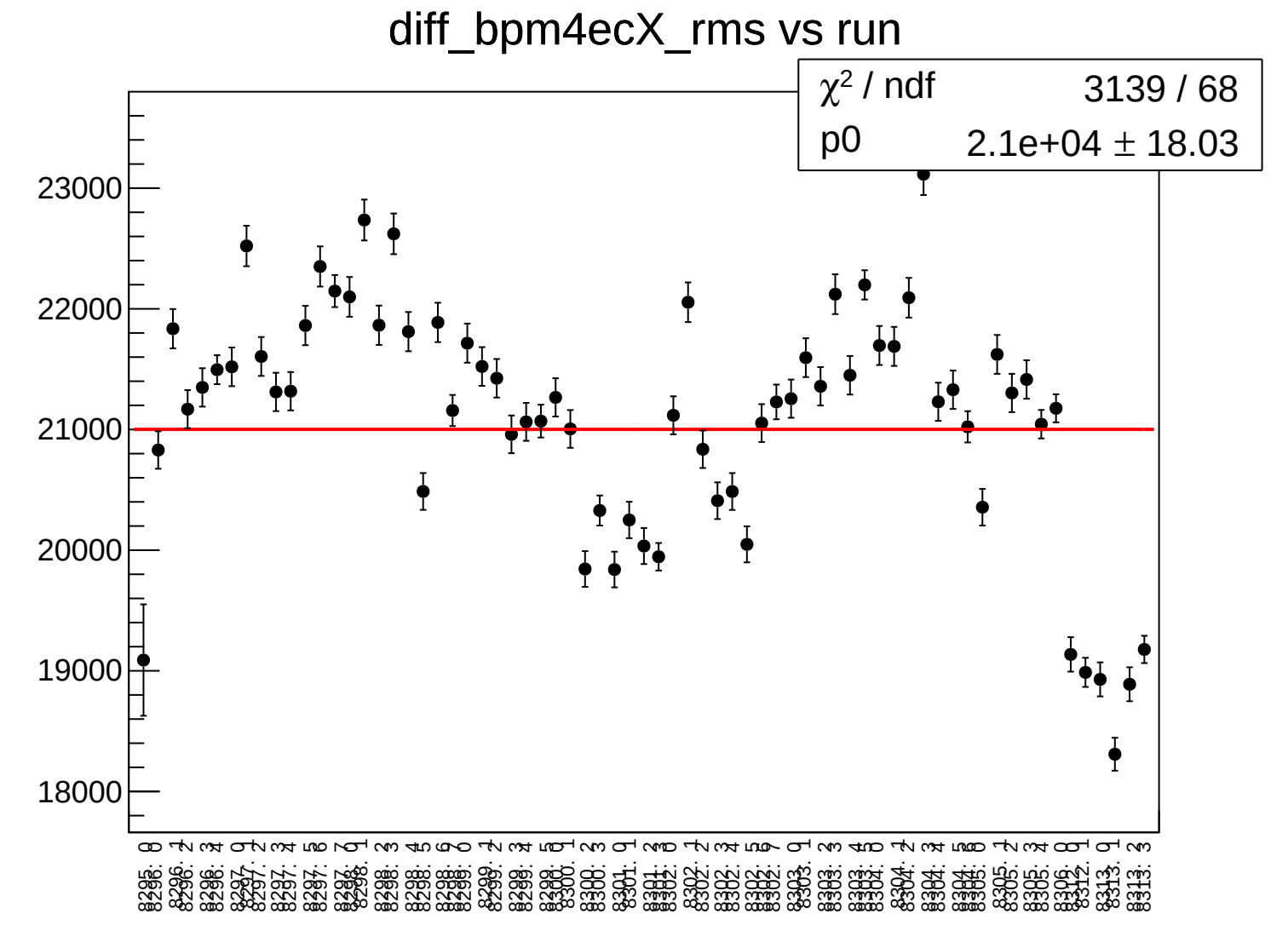

diff_bpm4acY_mean vs run
χ² / ndf 93.97 / 68
p0 11.06 ± 8.323
pull
Entries 69
Mean 1664
Std Dev 1631

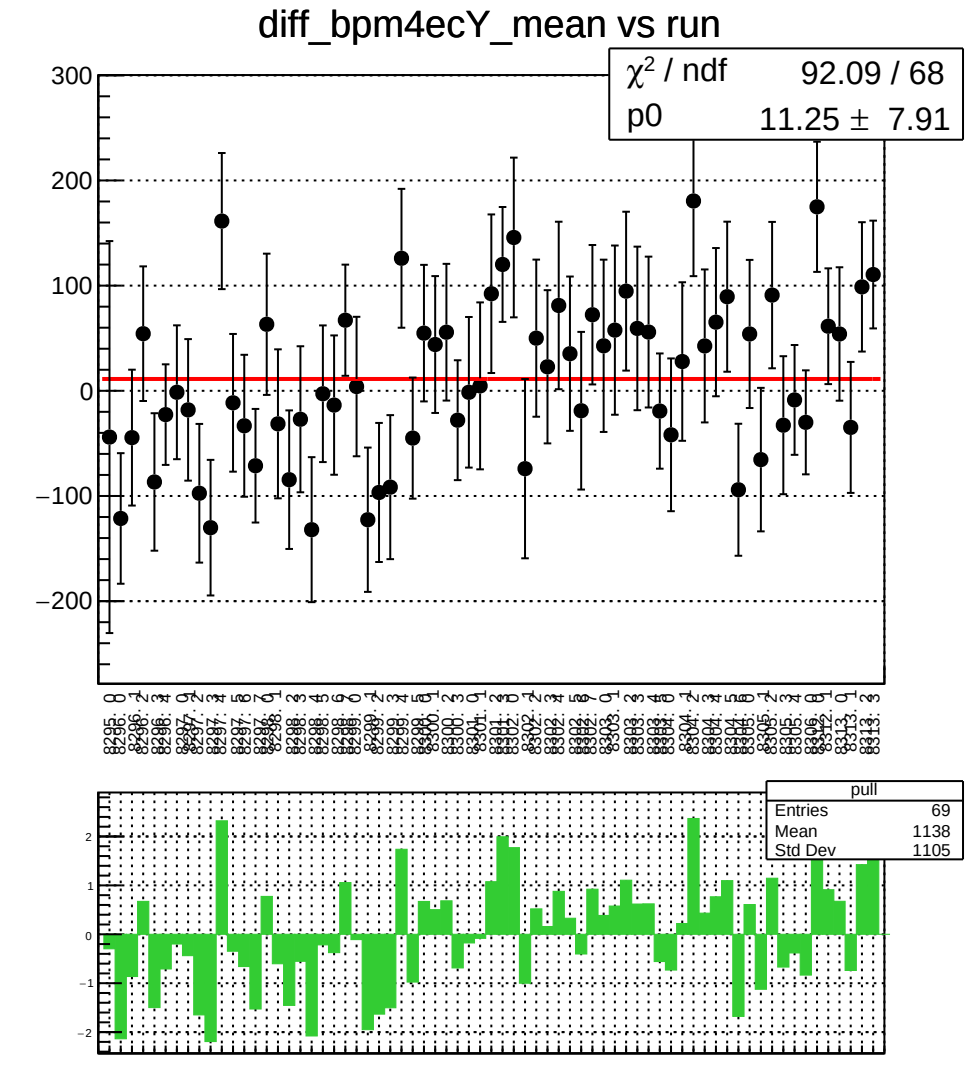

pull1D
Entries 69
Mean 0.005443
Std Dev 1.167

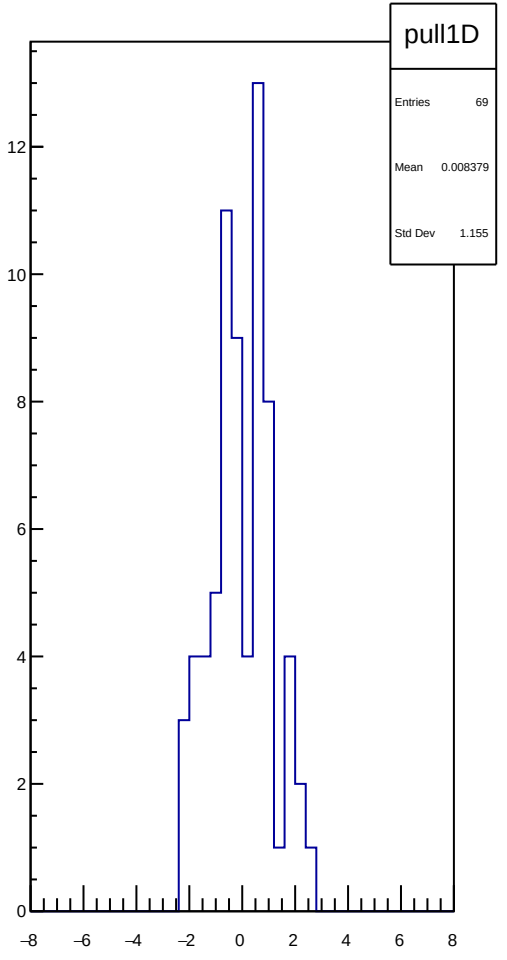

diff_bpm4acY_rms vs run
χ² / ndf 6543 / 68
p0 6847 ± 5.886
8500
8000
7500
7000
6500
6000
5500

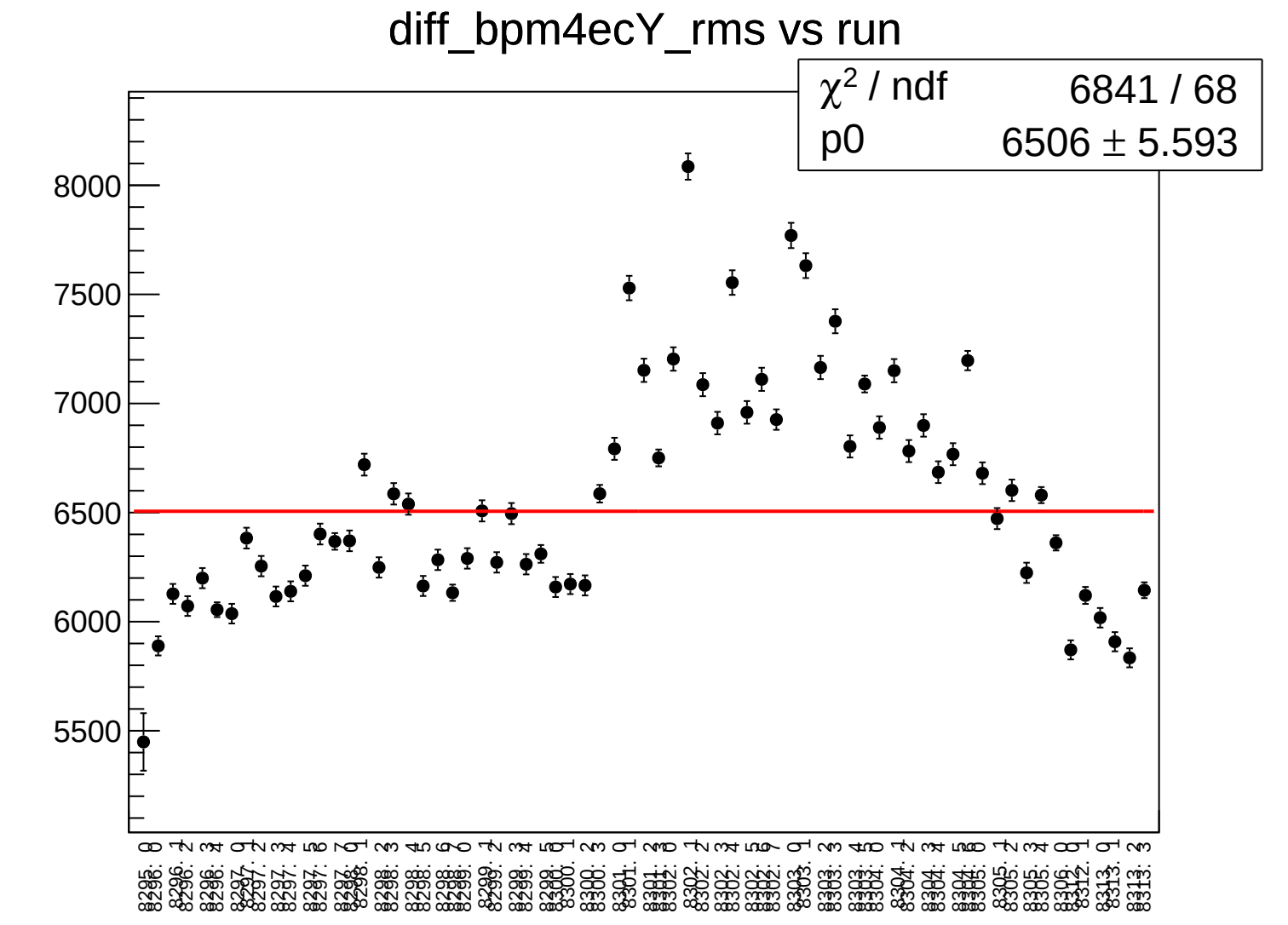

diff_bpm4ecX_mean vs run
χ² / ndf 66.39 / 68
p0 −45.44 ± 25.5
pull
Entries 69
Mean −249.4
Std Dev 273.7

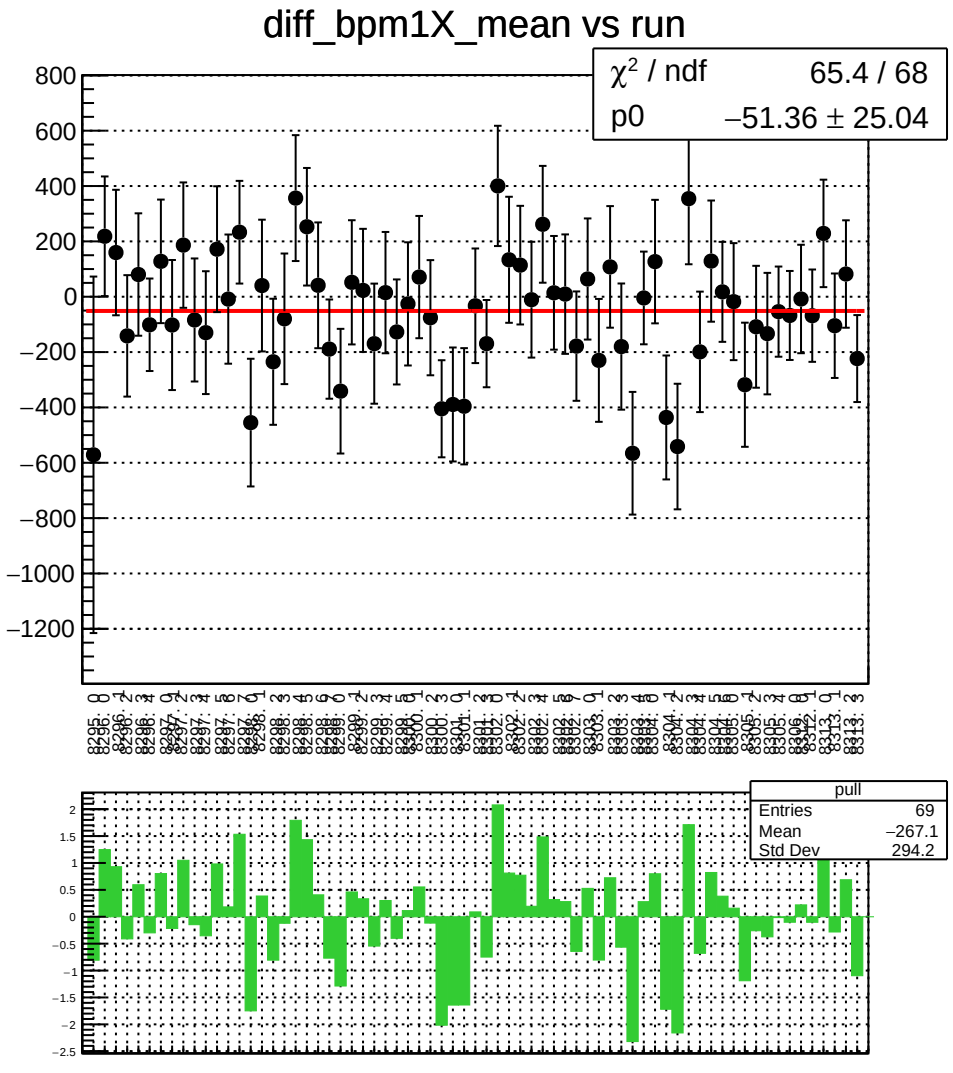

pull1D
Entries 69
Mean 0.005863
Std Dev 0.9809

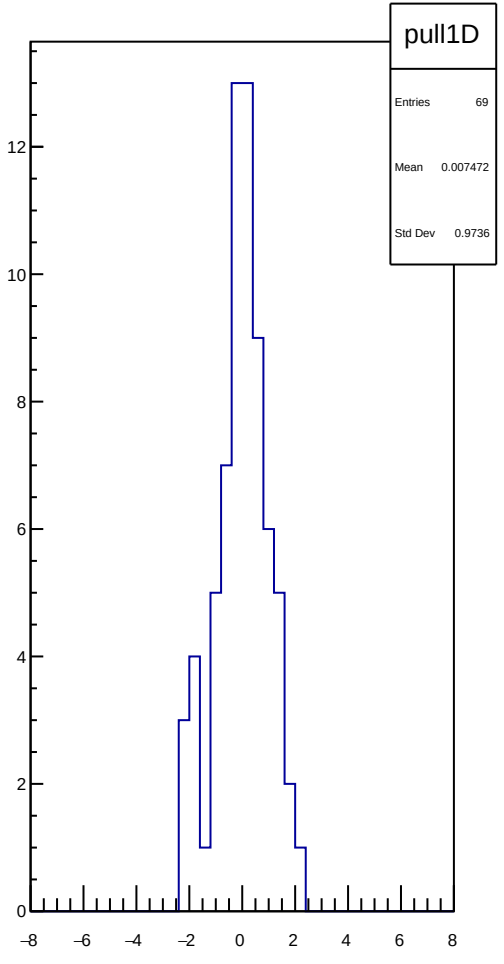

diff_bpm4ecX_rms vs run
χ² / ndf 3139 / 68
p0 2.1e+04 ± 18.03
23000
22000
21000
20000
19000
18000

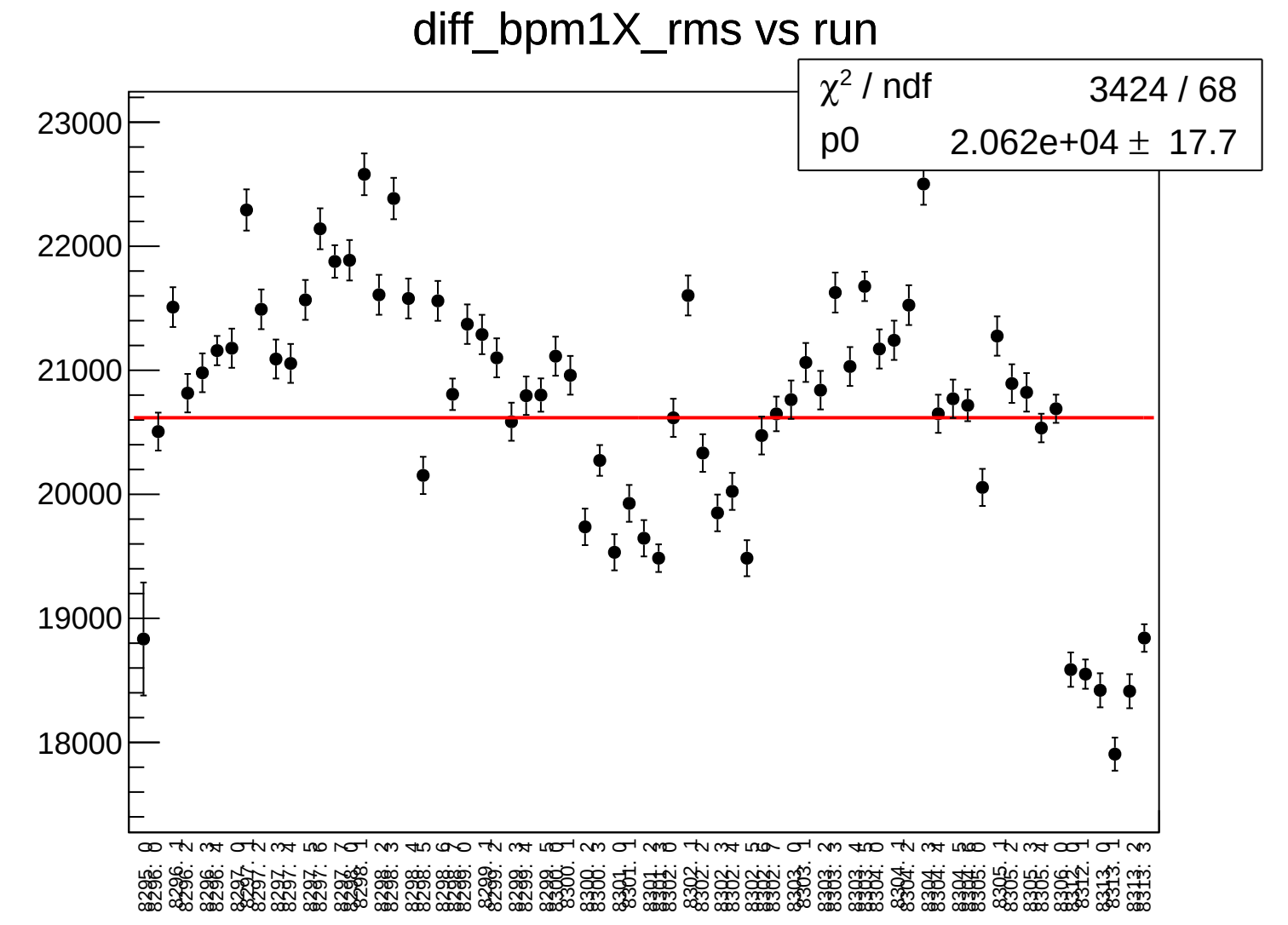

diff_bpm4ecY_mean vs run
χ² / ndf 92.09 / 68
p0 11.25 ± 7.91
pull
Entries 69
Mean 1138
Std Dev 1105

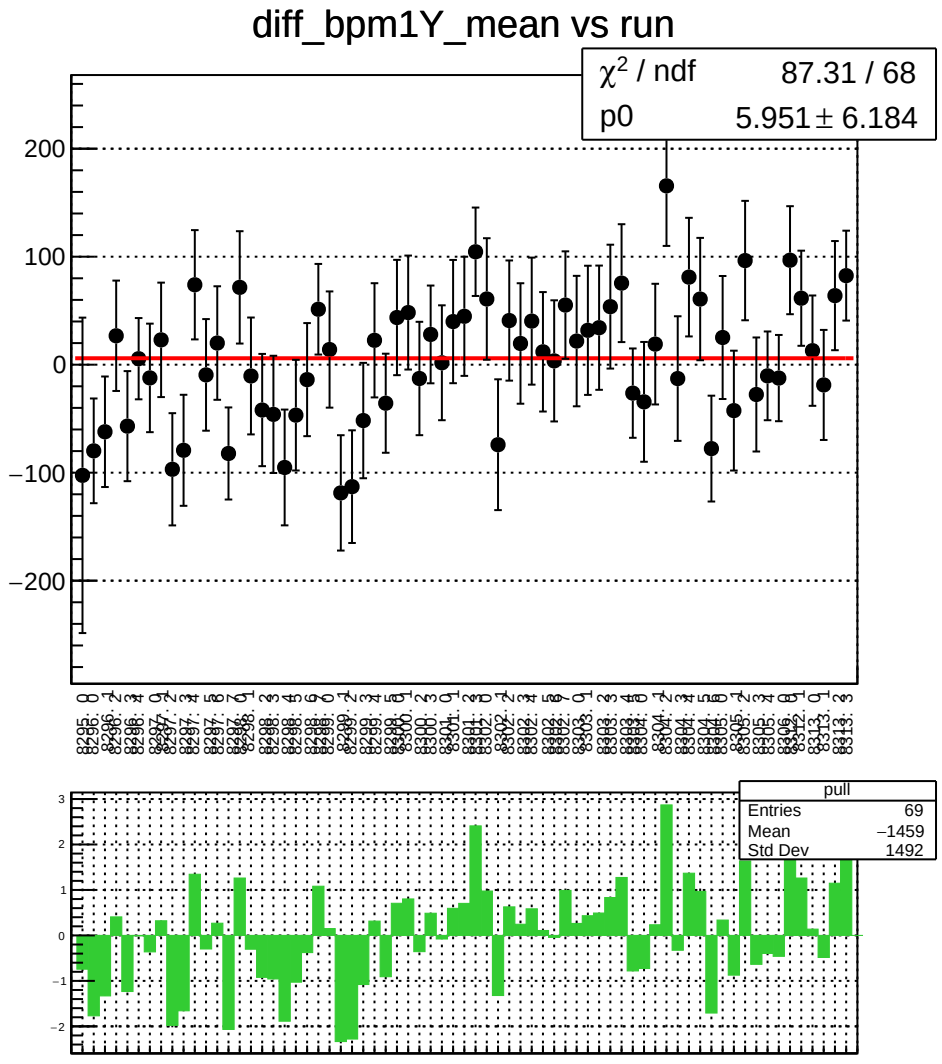

pull1D
Entries 69
Mean 0.008379
Std Dev 1.155

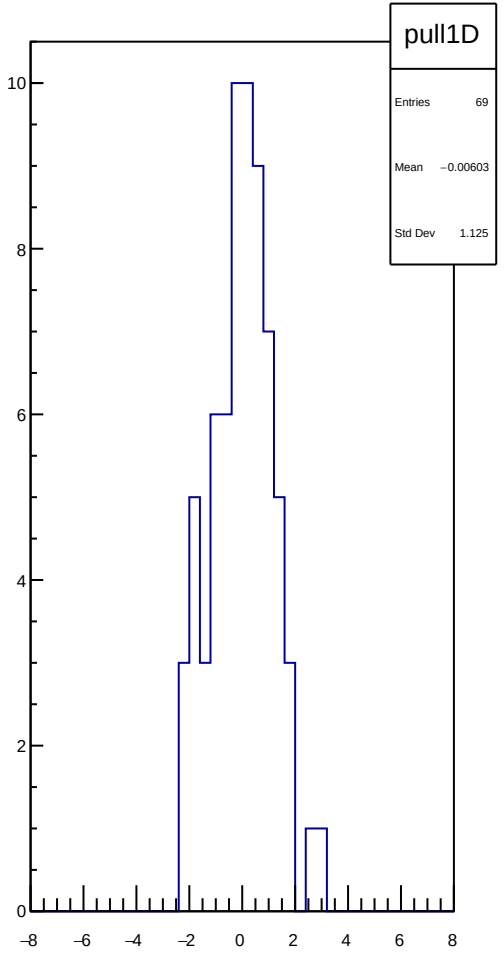

diff_bpm4ecY_rms vs run
χ² / ndf 6841 / 68
p0 6506 ± 5.593
8000
7500
7000
6500
6000
5500

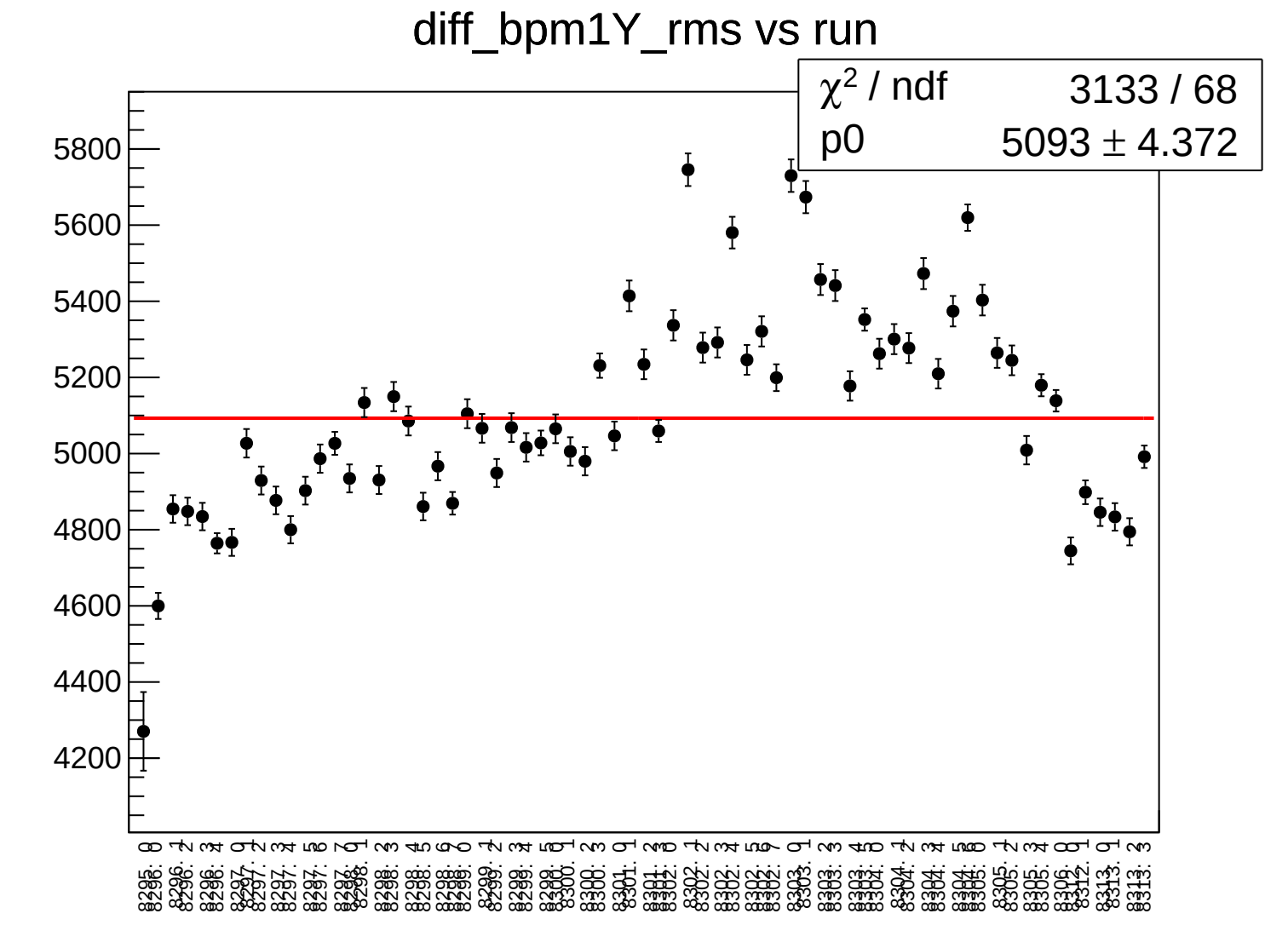

diff_bpm1X_mean vs run
χ² / ndf 65.4 / 68
p0 −51.36 ± 25.04
pull
Entries 69
Mean −267.1
Std Dev 294.2

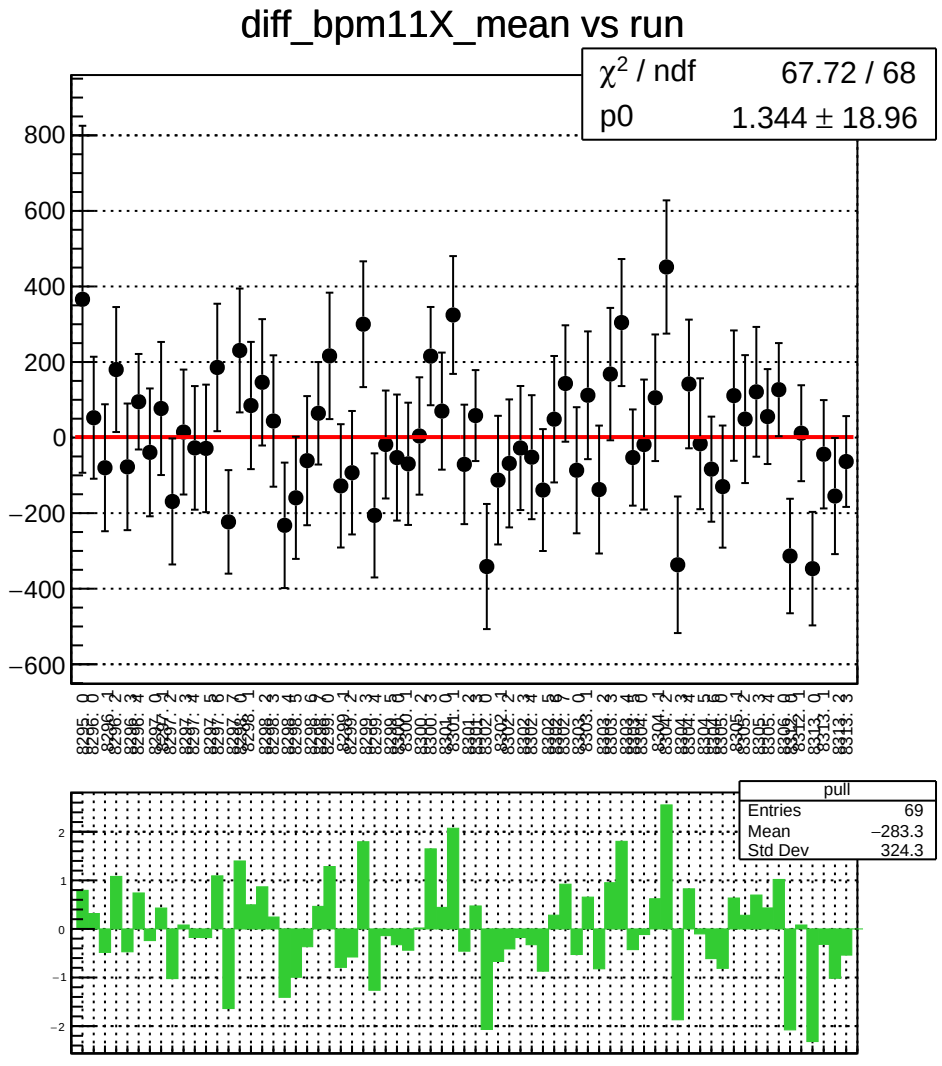

pull1D
Entries 69
Mean 0.007472
Std Dev 0.9736

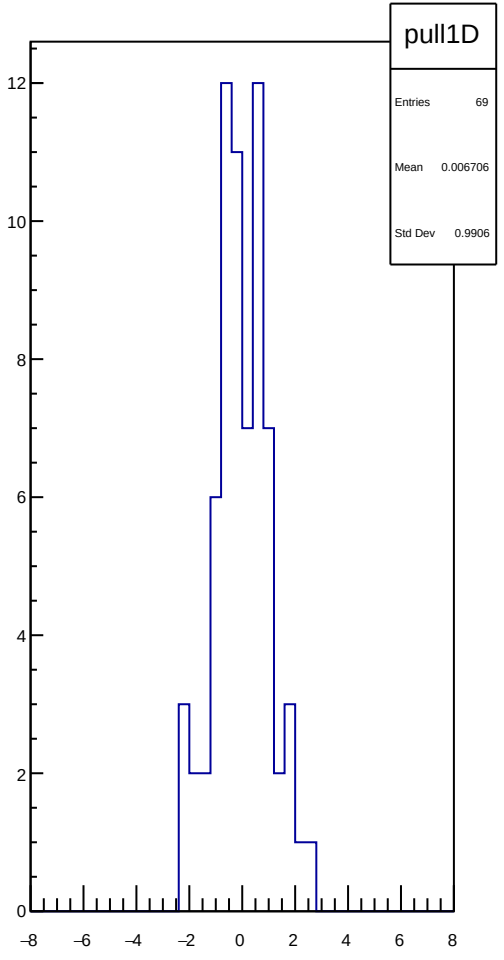

diff_bpm1X_rms vs run
χ² / ndf 3424 / 68
p0 2.062e+04 ± 17.7
23000
22000
21000
20000
19000
18000

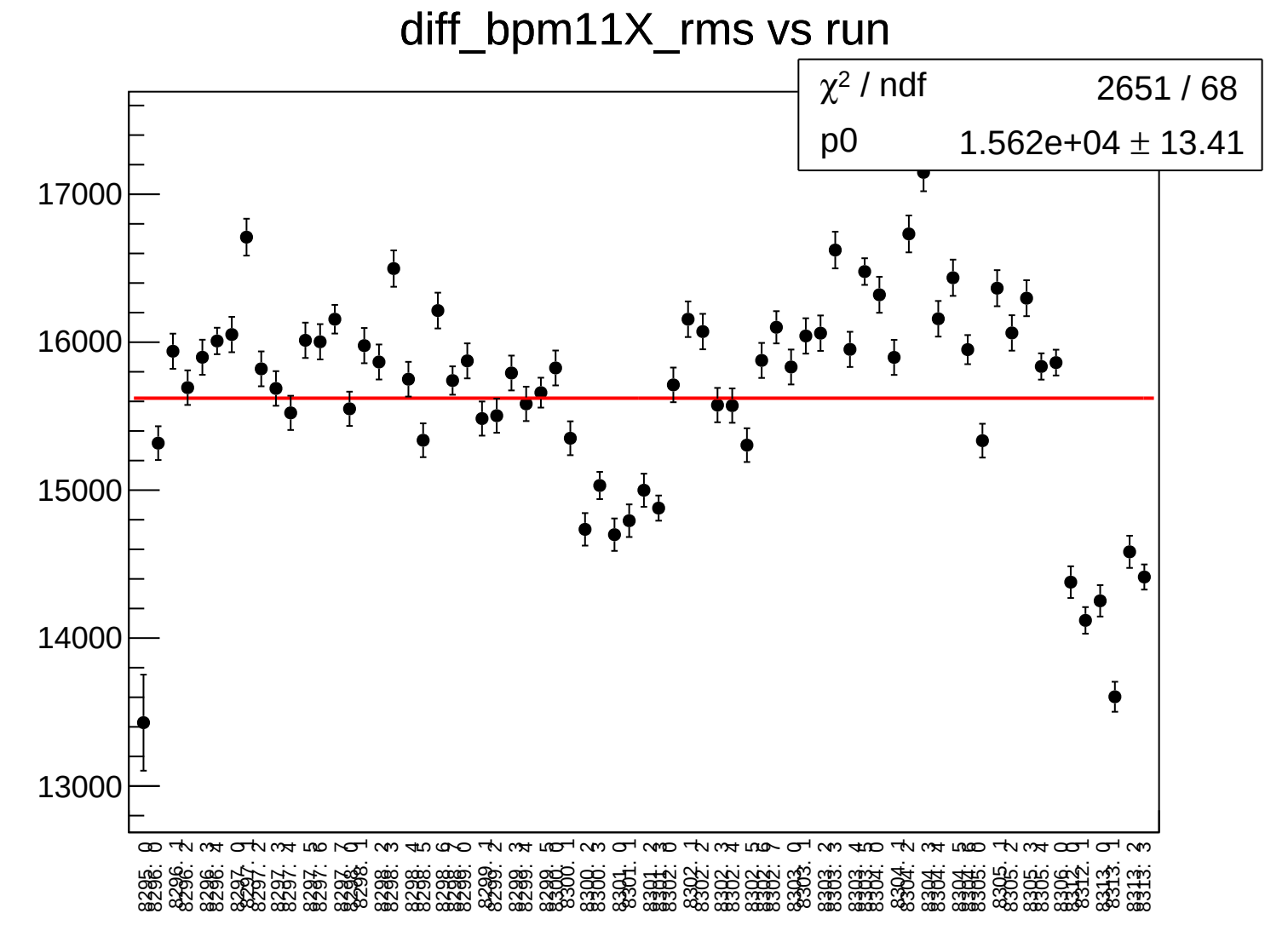

diff_bpm1Y_mean vs run
χ² / ndf 87.31 / 68
p0 5.951 ± 6.184
200
100
0
−100
−200
pull
Entries 69
Mean −1459
Std Dev 1492
3
2
1
0
−1
−2

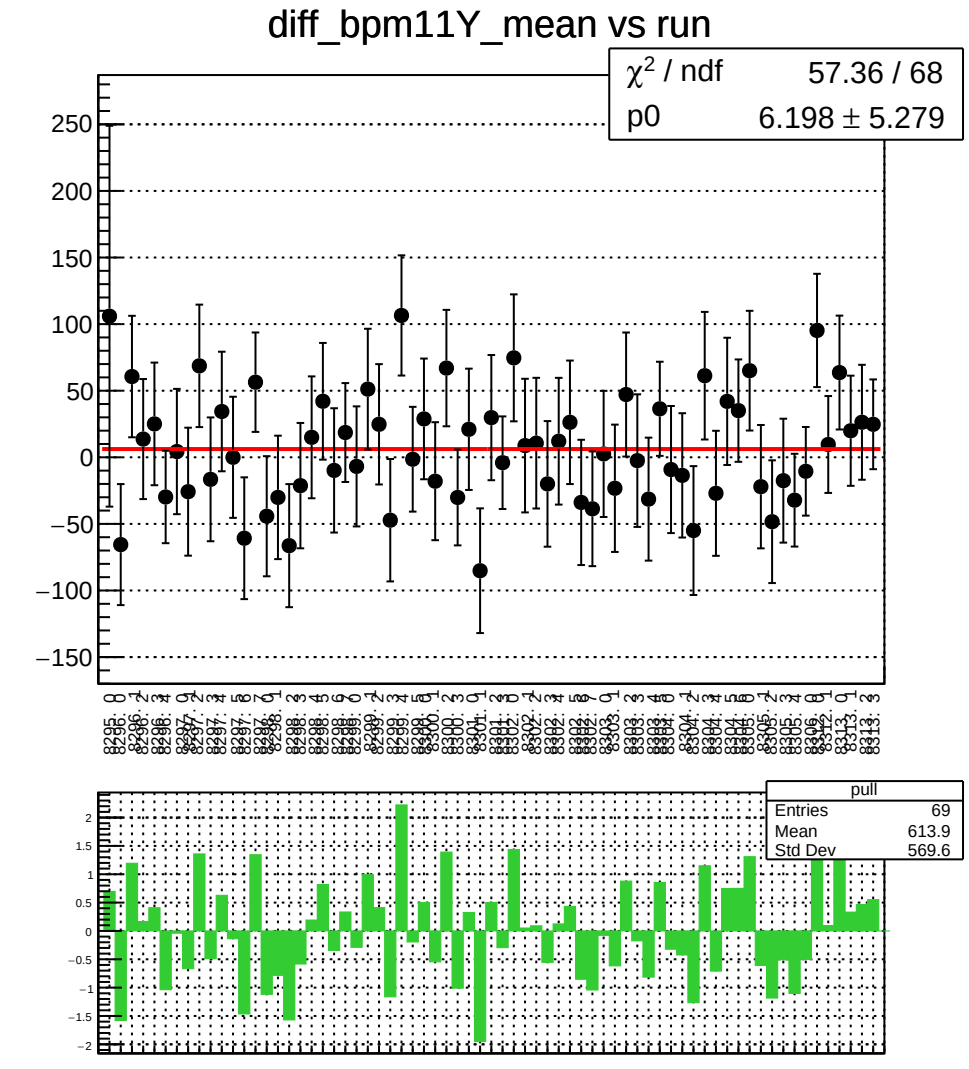

pull1D
Entries 69
Mean −0.00603
Std Dev 1.125
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

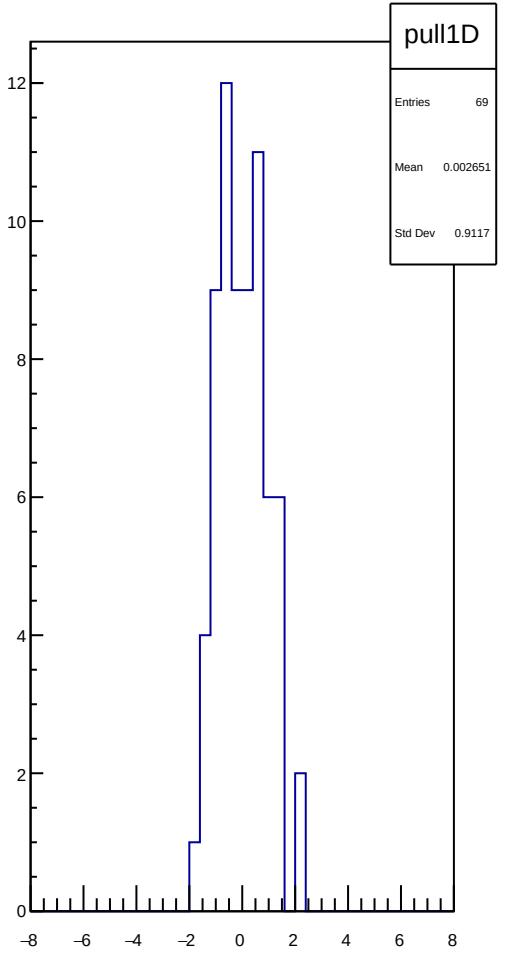

diff_bpm1Y_rms vs run
χ² / ndf 3133 / 68
p0 5093 ± 4.372
5800
5600
5400
5200
5000
4800
4600
4400
4200

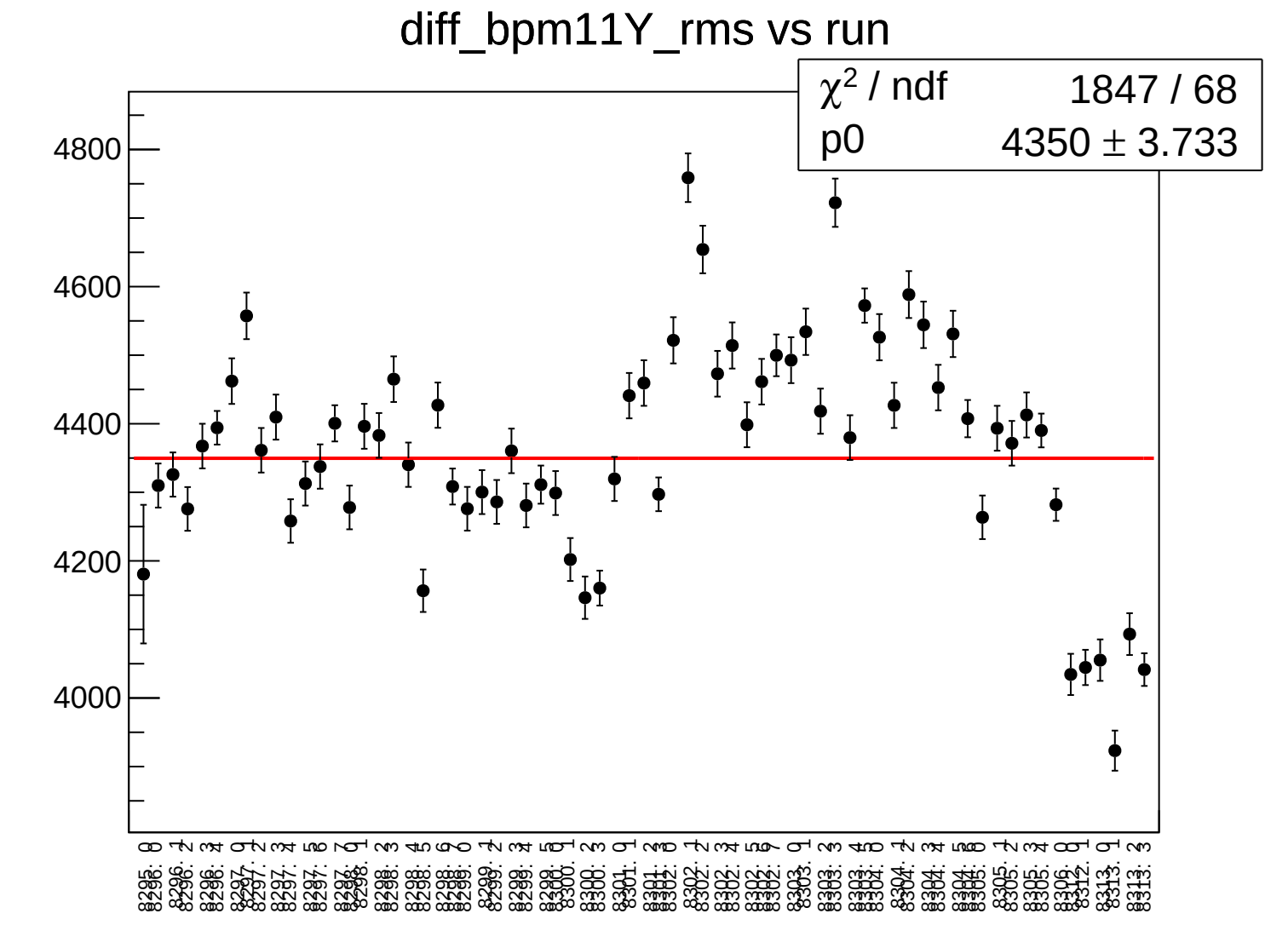

diff_bpm11X_mean vs run
χ² / ndf 67.72 / 68
p0 1.344 ± 18.96
pull
Entries 69
Mean −283.3
Std Dev 324.3

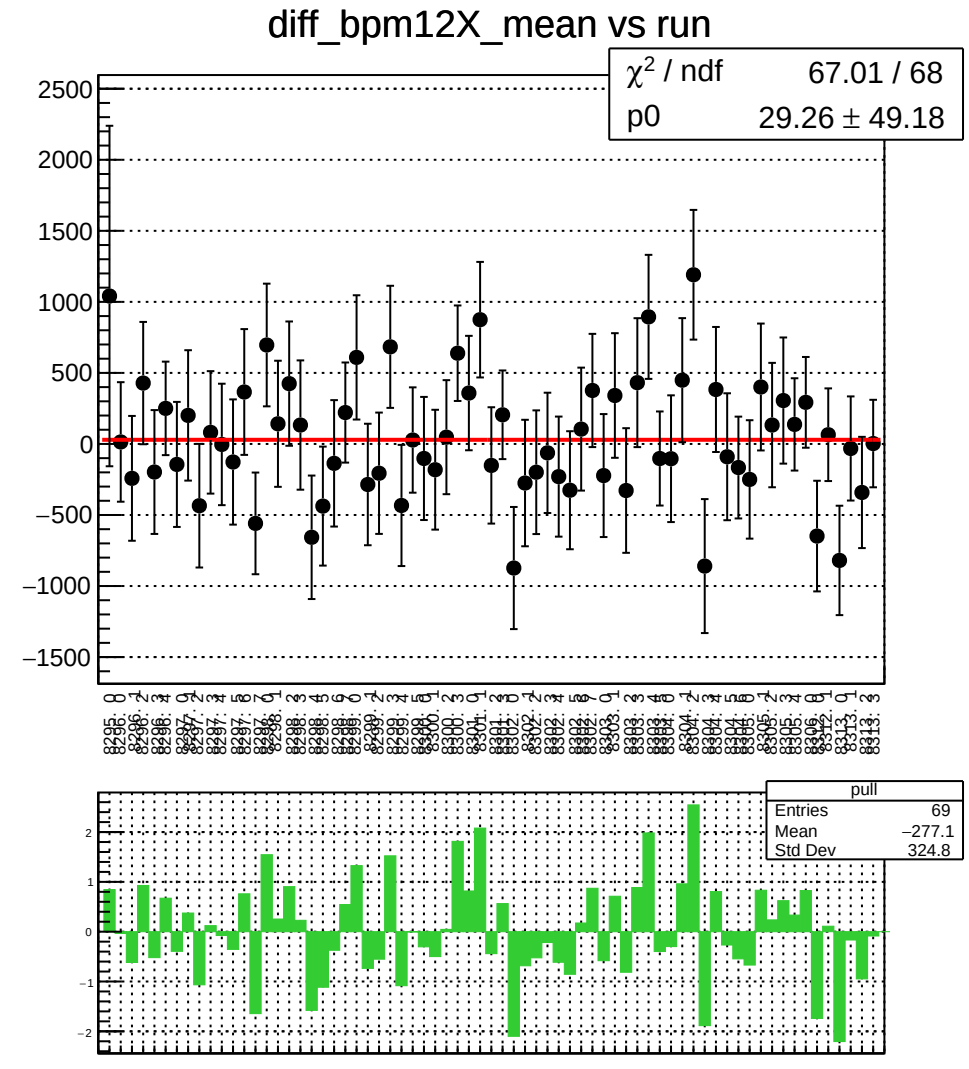

pull1D
Entries 69
Mean 0.006706
Std Dev 0.9906

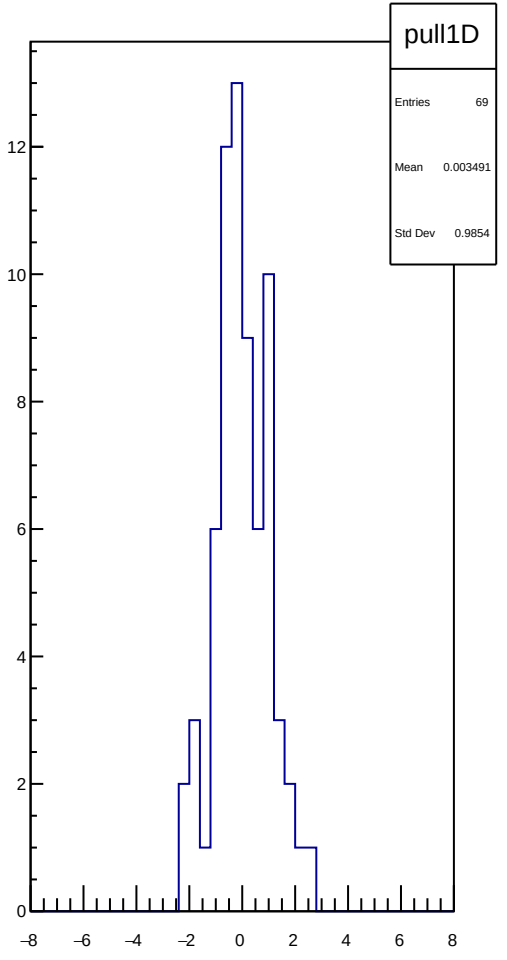

diff_bpm11X_rms vs run
χ² / ndf 2651 / 68
p0 1.562e+04 ± 13.41
17000
16000
15000
14000
13000

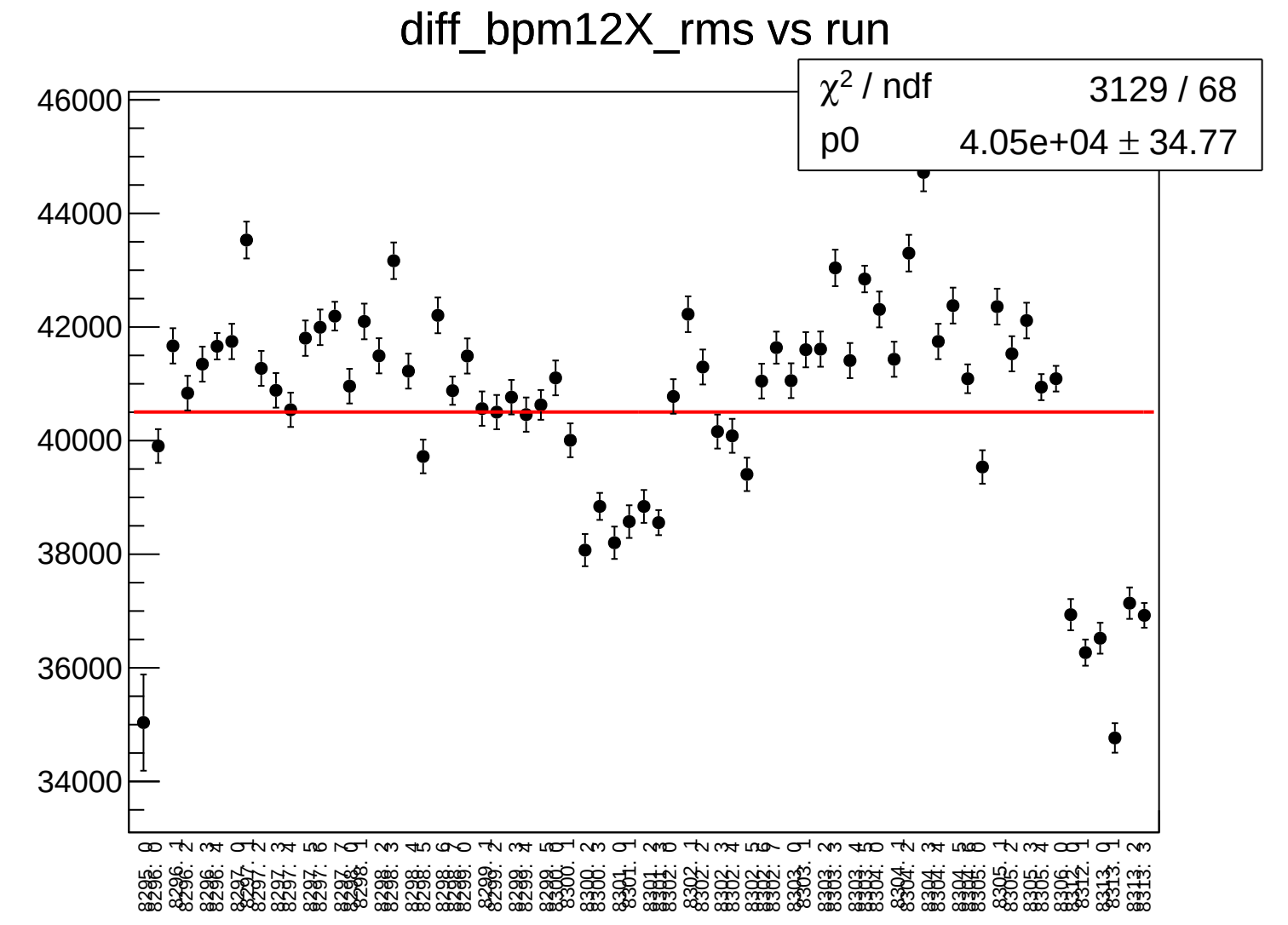

diff_bpm11Y_mean vs run
χ^2 / ndf 57.36 / 68
p0 6.198 ± 5.279
pull
Entries 69
Mean 613.9
Std Dev 569.6

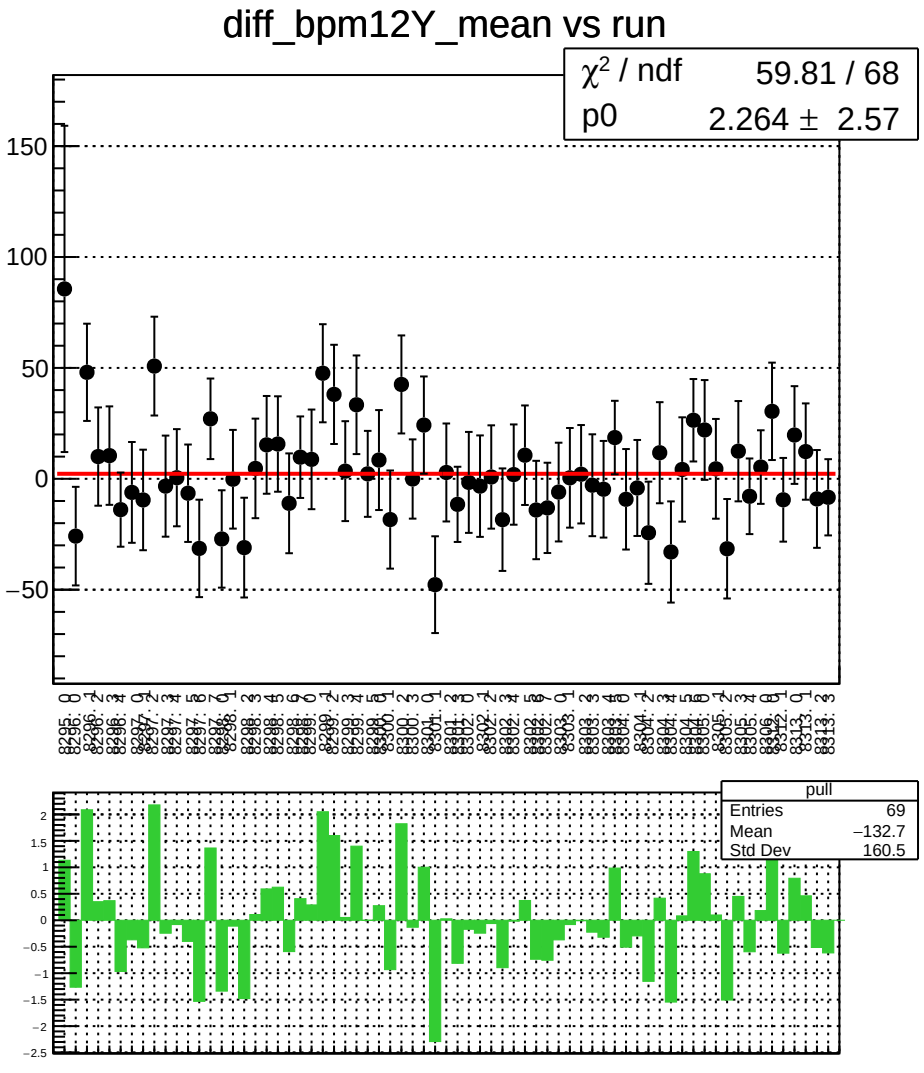

pull1D
Entries 69
Mean 0.002651
Std Dev 0.9117

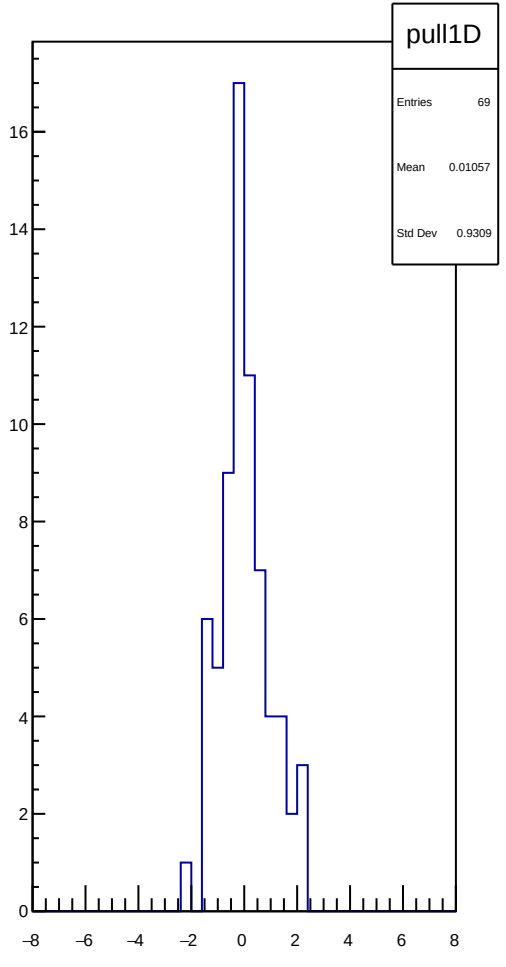

diff_bpm11Y_rms vs run
χ² / ndf 1847 / 68
p0 4350 ± 3.733
4800
4600
4400
4200
4000

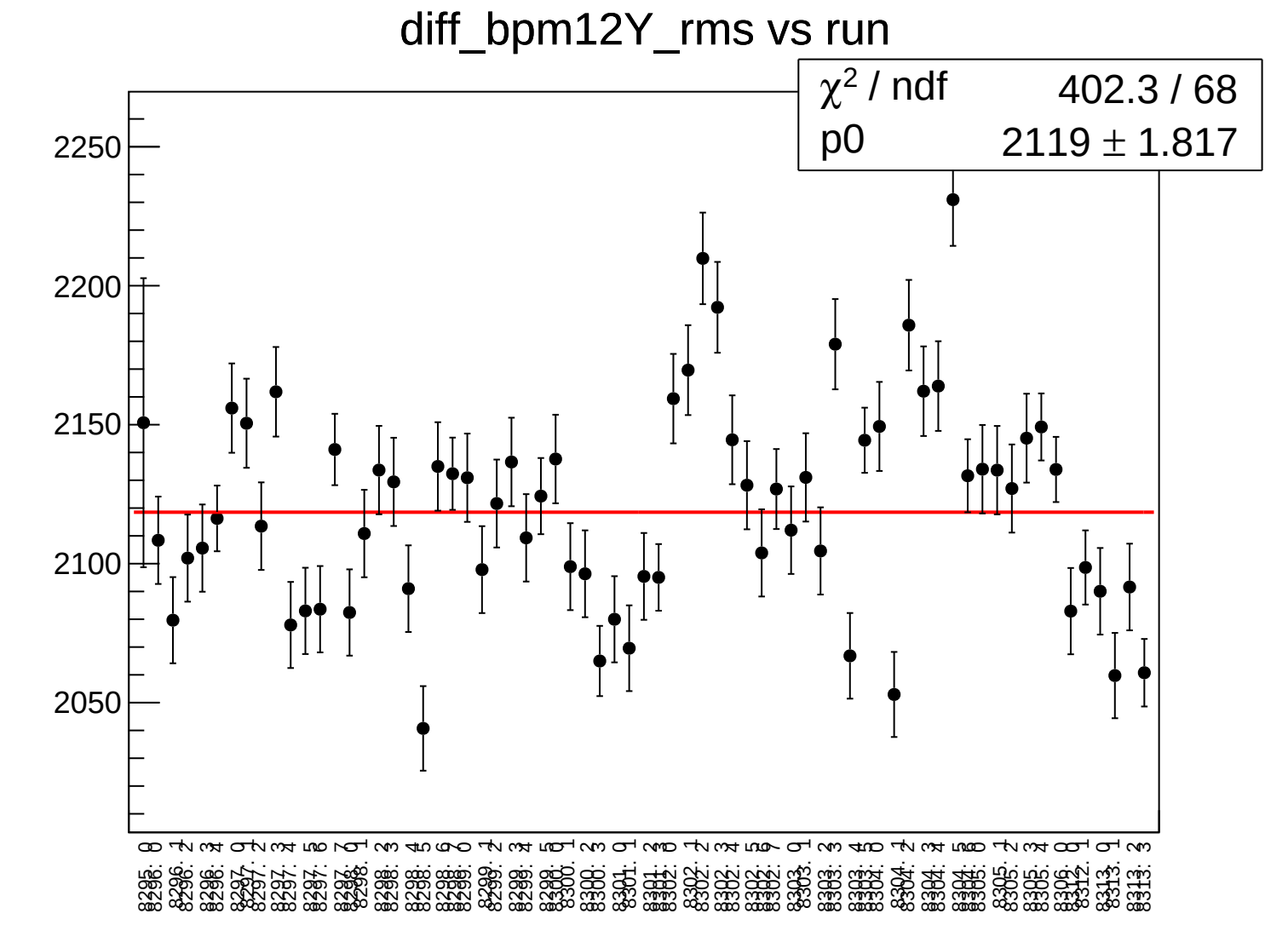

diff_bpm12X_mean vs run
χ² / ndf 67.01 / 68
p0 29.26 ± 49.18
pull
Entries 69
Mean −277.1
Std Dev 324.8

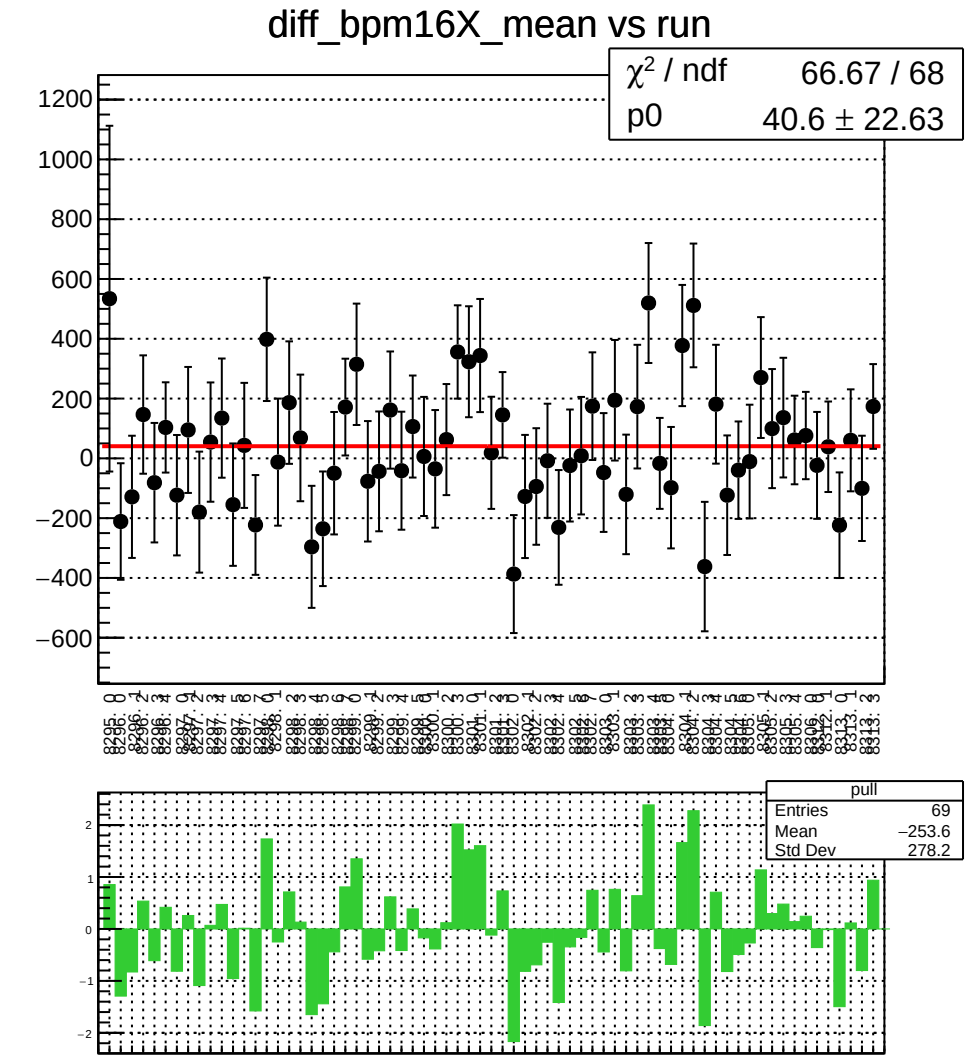

pull1D
Entries 69
Mean 0.003491
Std Dev 0.9854

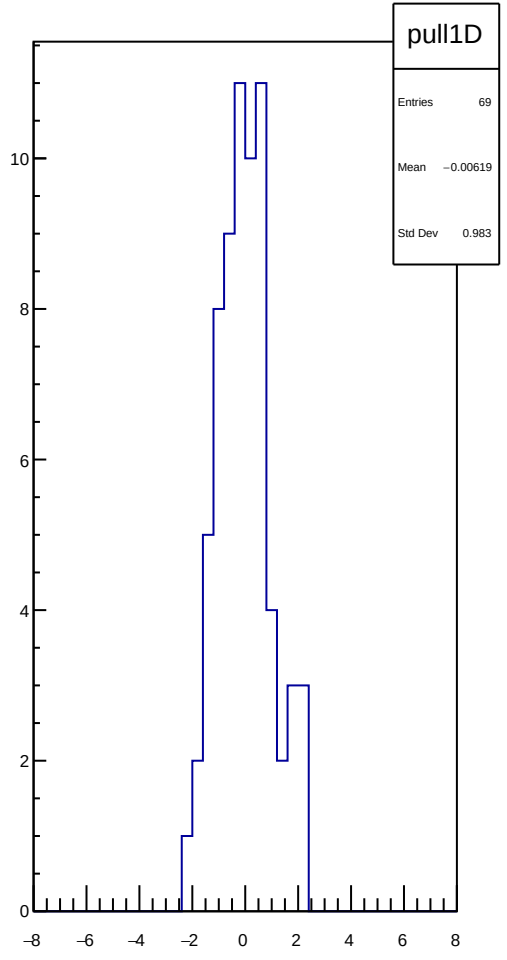

diff_bpm12X_rms vs run
χ² / ndf 3129 / 68
p0 4.05e+04 ± 34.77
46000
44000
42000
40000
38000
36000
34000

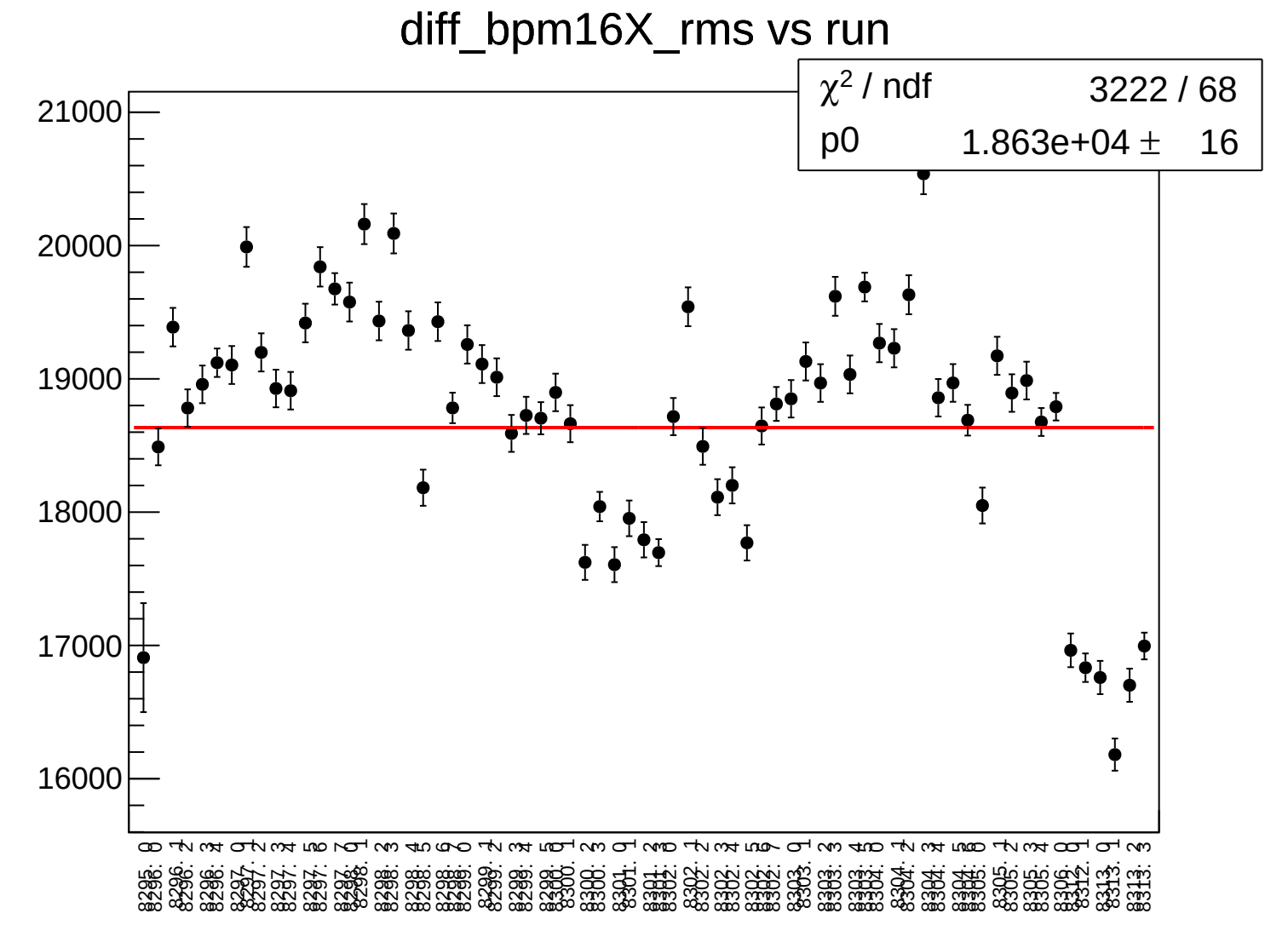

diff_bpm12Y_mean vs run
χ^2 / ndf 59.81 / 68
p0 2.264 ± 2.57
150
100
50
0
−50
pull
Entries 69
Mean −132.7
Std Dev 160.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

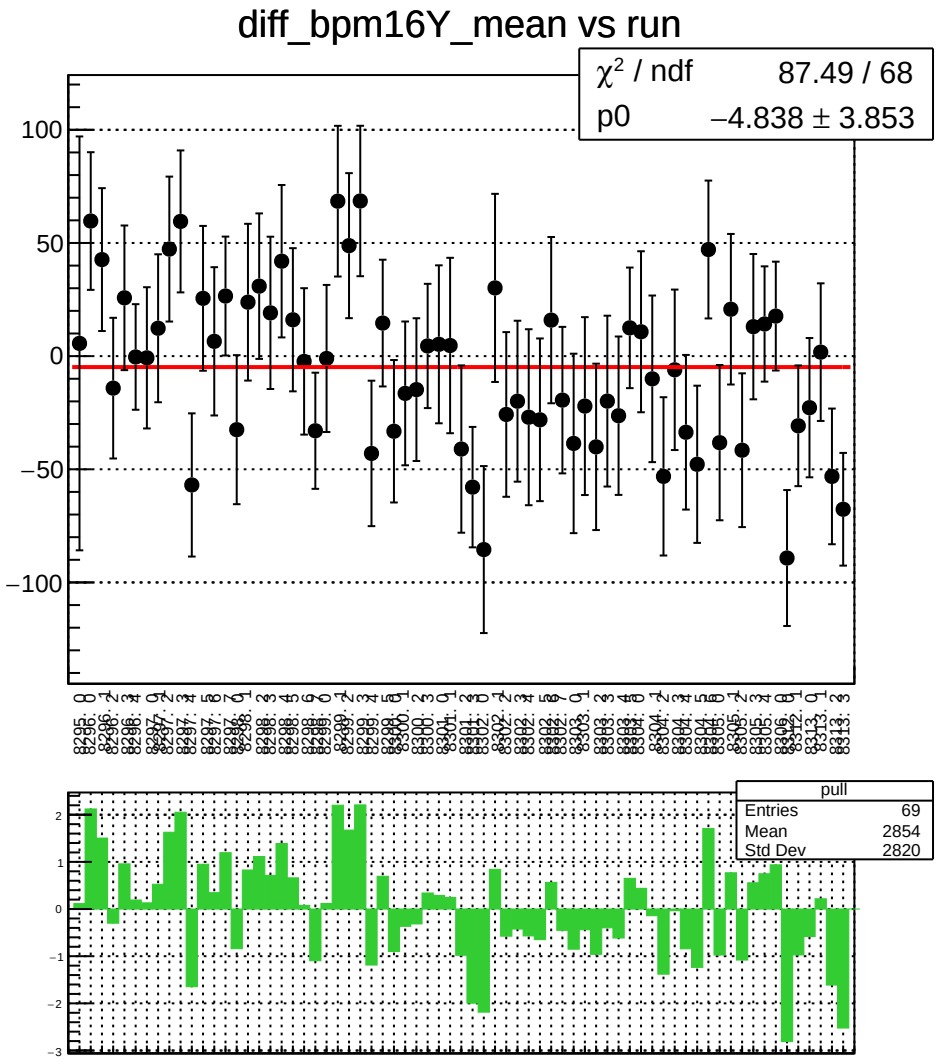

pull1D
Entries 69
Mean 0.01057
Std Dev 0.9309
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

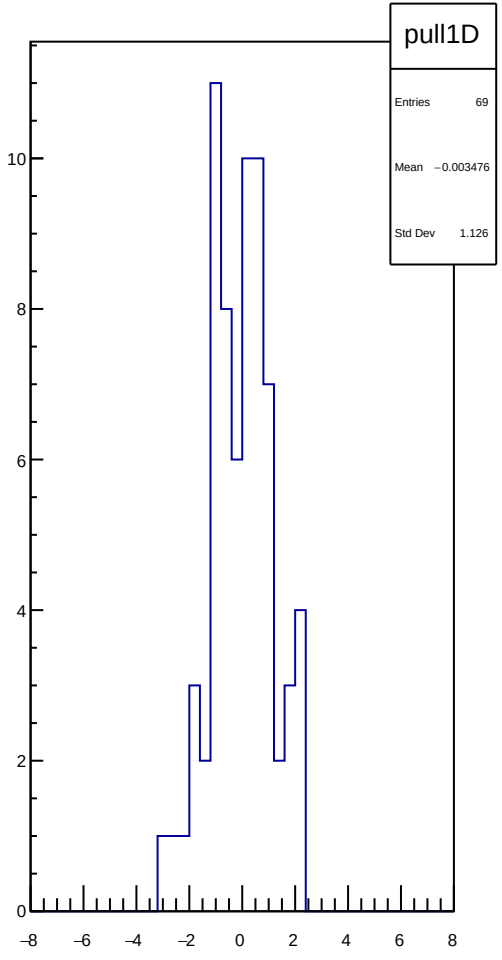

diff_bpm12Y_rms vs run
χ² / ndf 402.3 / 68
p0 2119 ± 1.817
2250
2200
2150
2100
2050

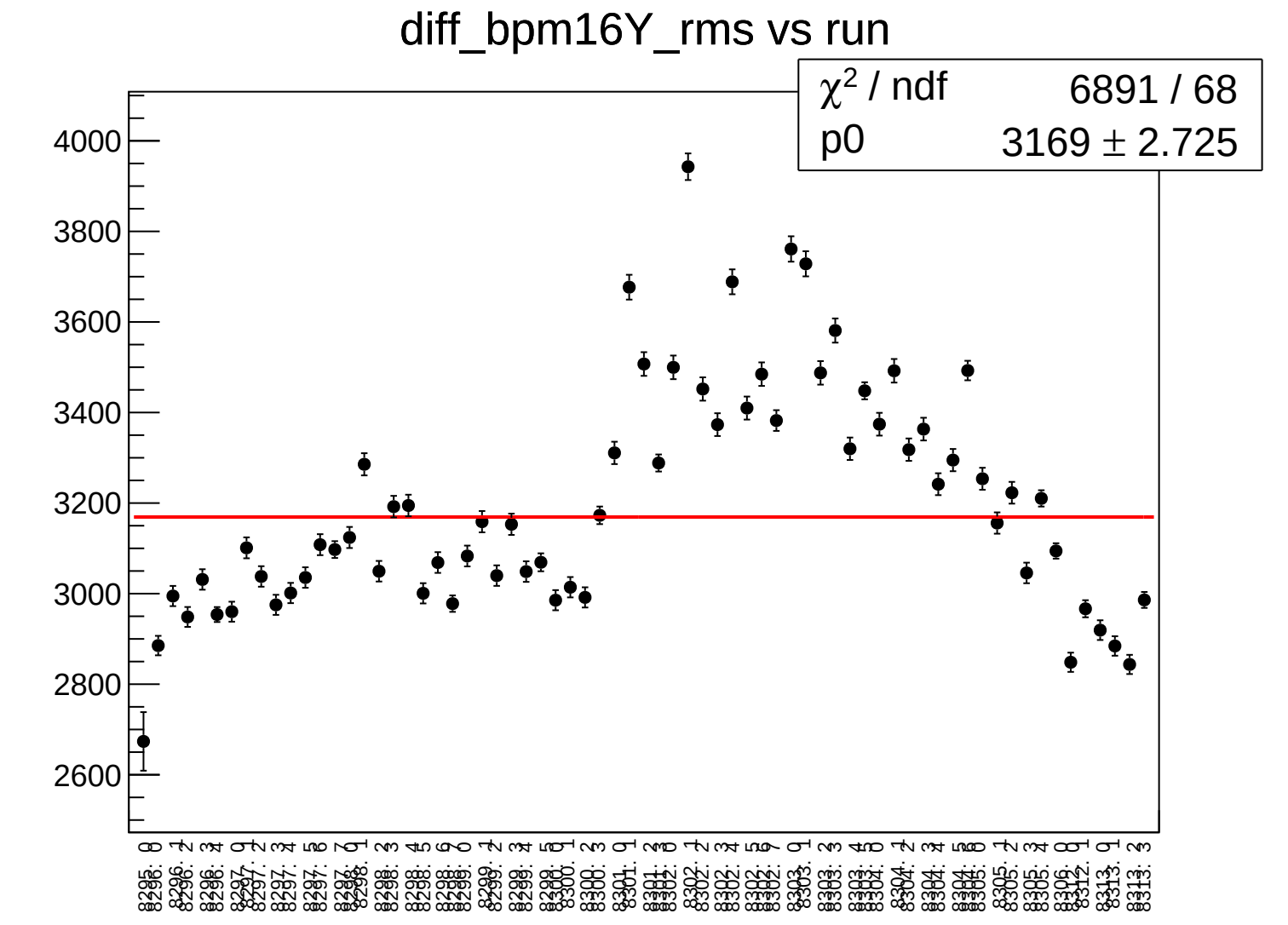

diff_bpm16X_mean vs run
χ² / ndf 66.67 / 68
p0 40.6 ± 22.63
pull
Entries 69
Mean −253.6
Std Dev 278.2

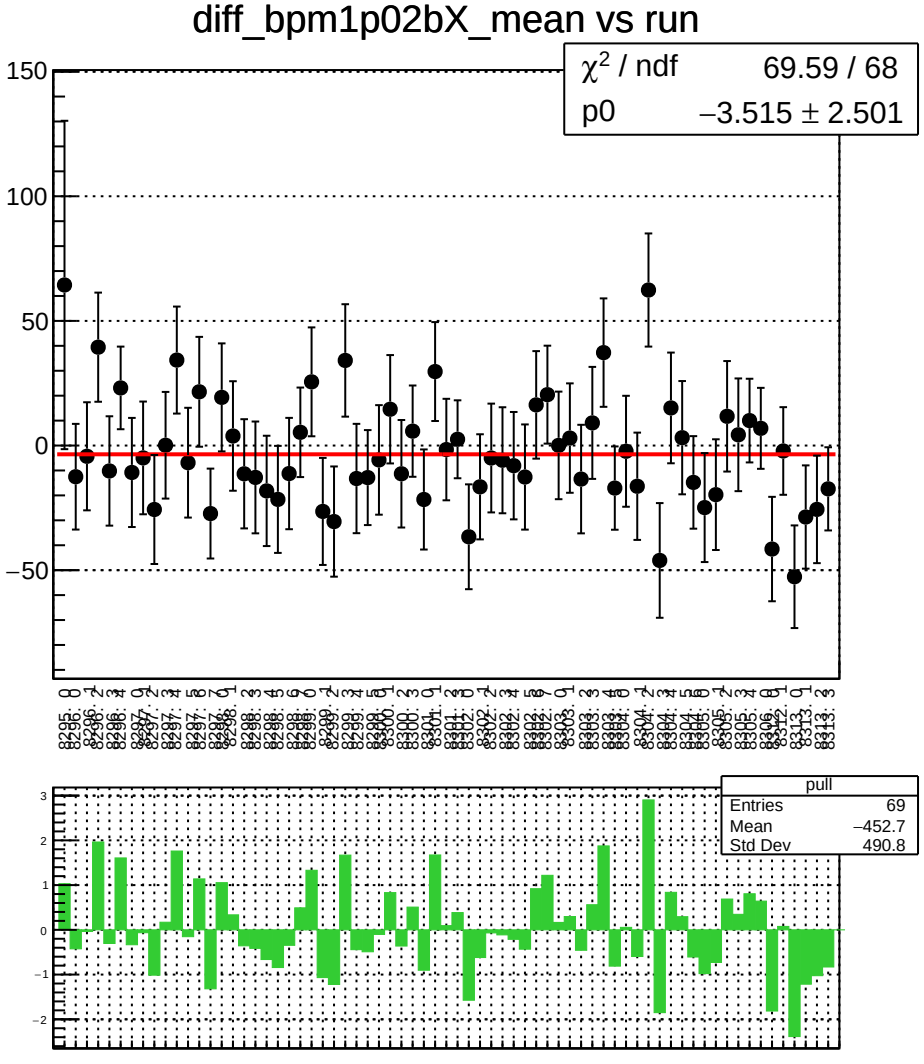

pull1D
Entries 69
Mean −0.00619
Std Dev 0.983

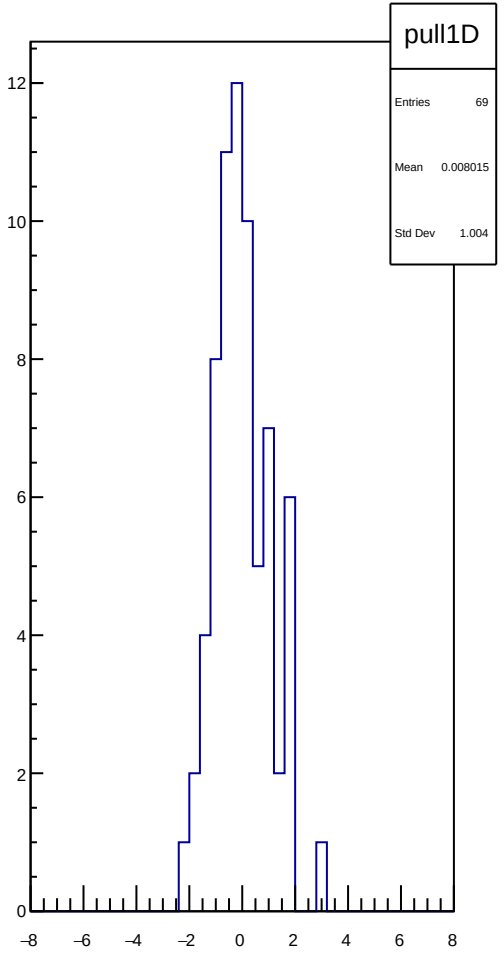

diff_bpm16X_rms vs run
χ² / ndf 3222 / 68
p0 1.863e+04 ± 16
21000
20000
19000
18000
17000
16000

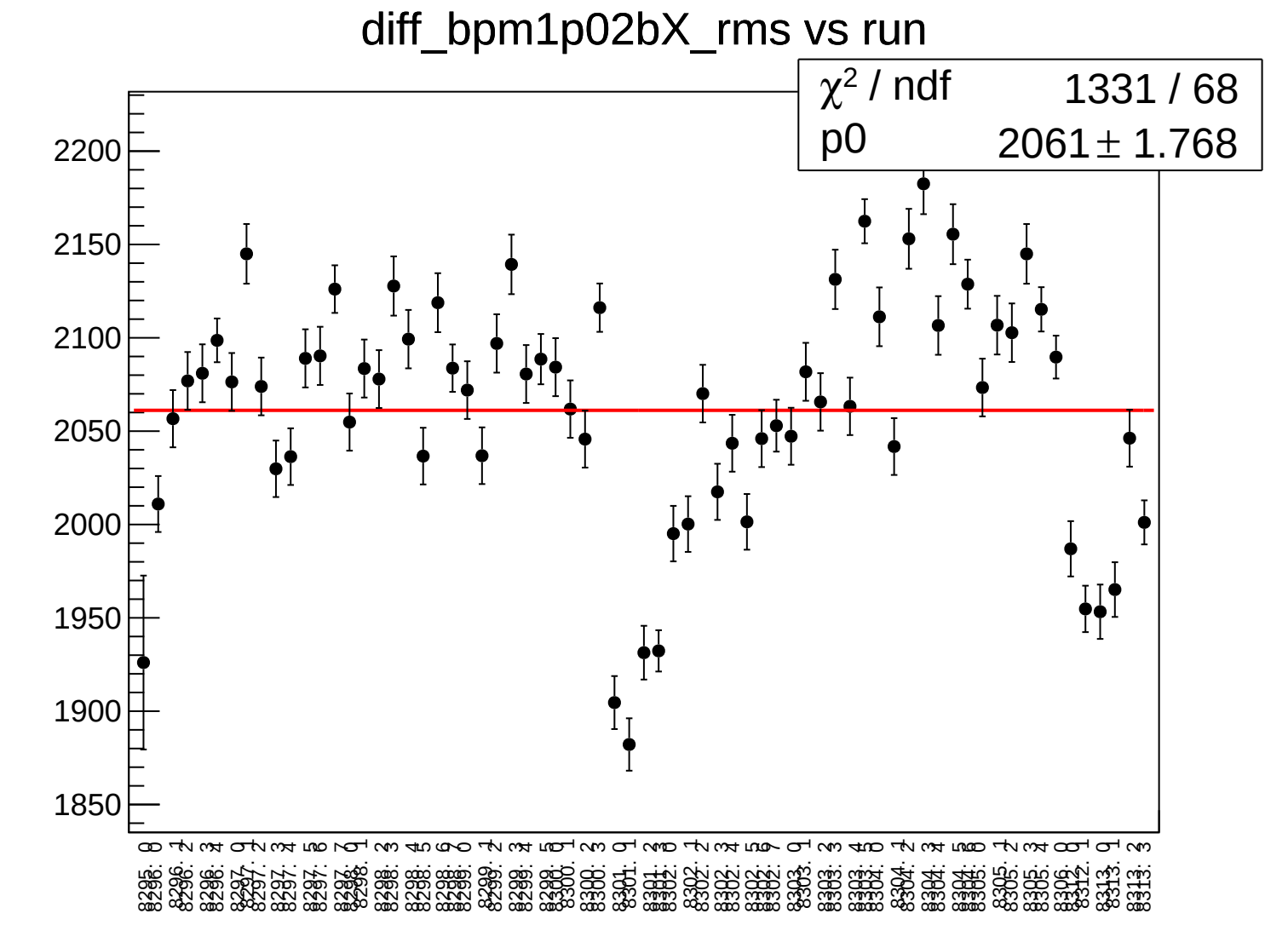

diff_bpm16Y_mean vs run
χ² / ndf 87.49 / 68
p0 −4.838 ± 3.853
100
50
0
−50
−100
pull
Entries 69
Mean 2854
Std Dev 2820
2
1
0
−1
−2
−3

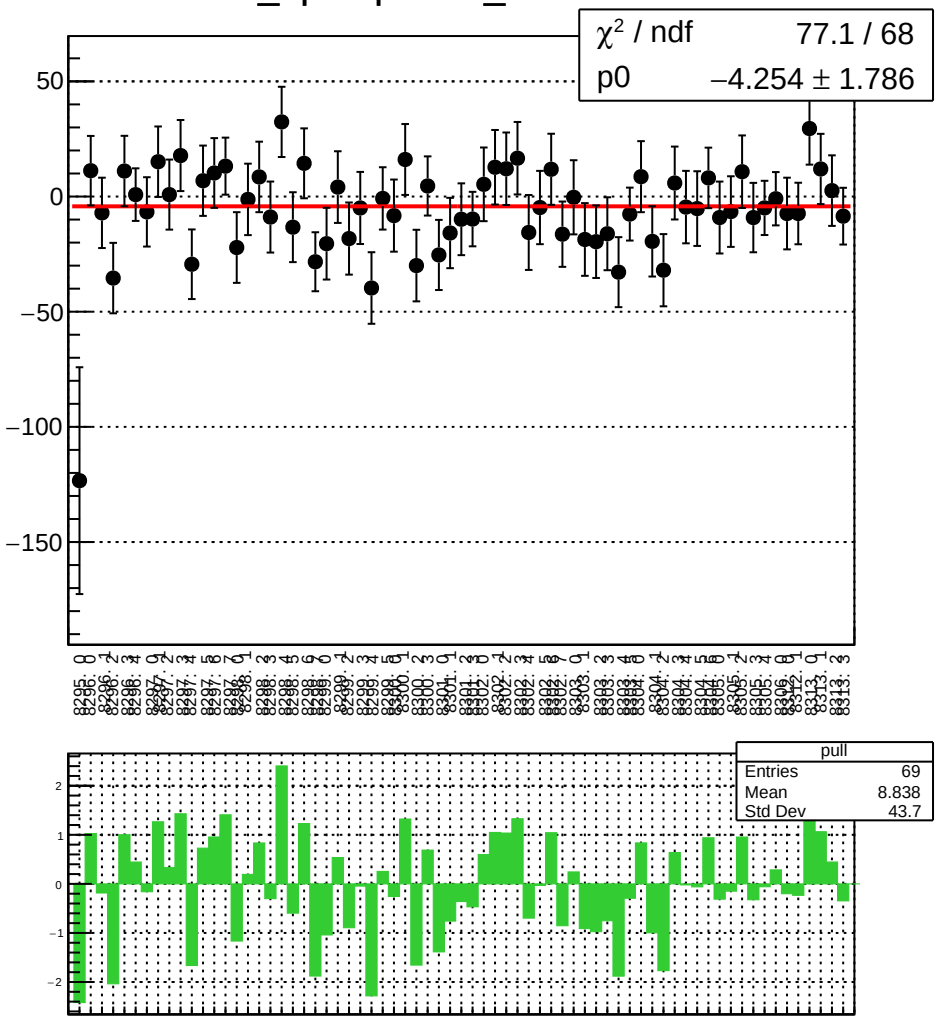

pull1D
Entries 69
Mean −0.003476
Std Dev 1.126
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

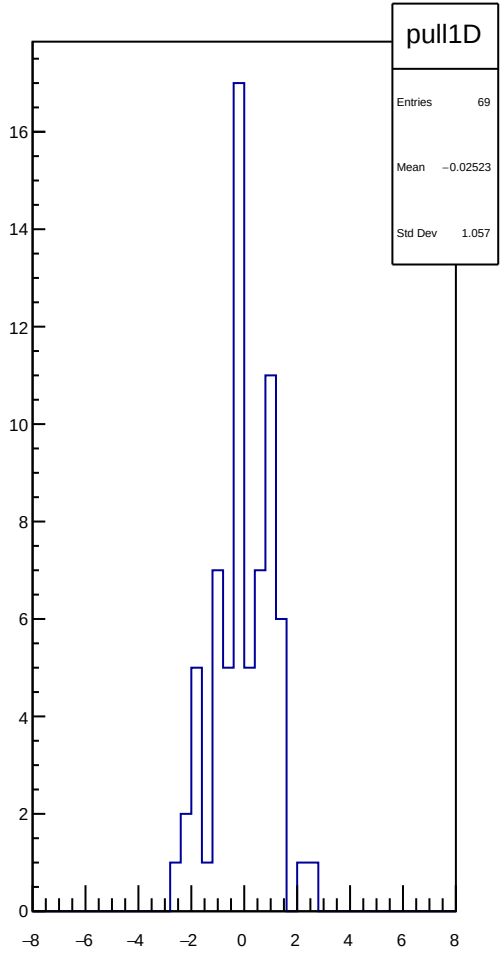

diff_bpm16Y_rms vs run
χ² / ndf 6891 / 68
p0 3169 ± 2.725
4000
3800
3600
3400
3200
3000
2800
2600

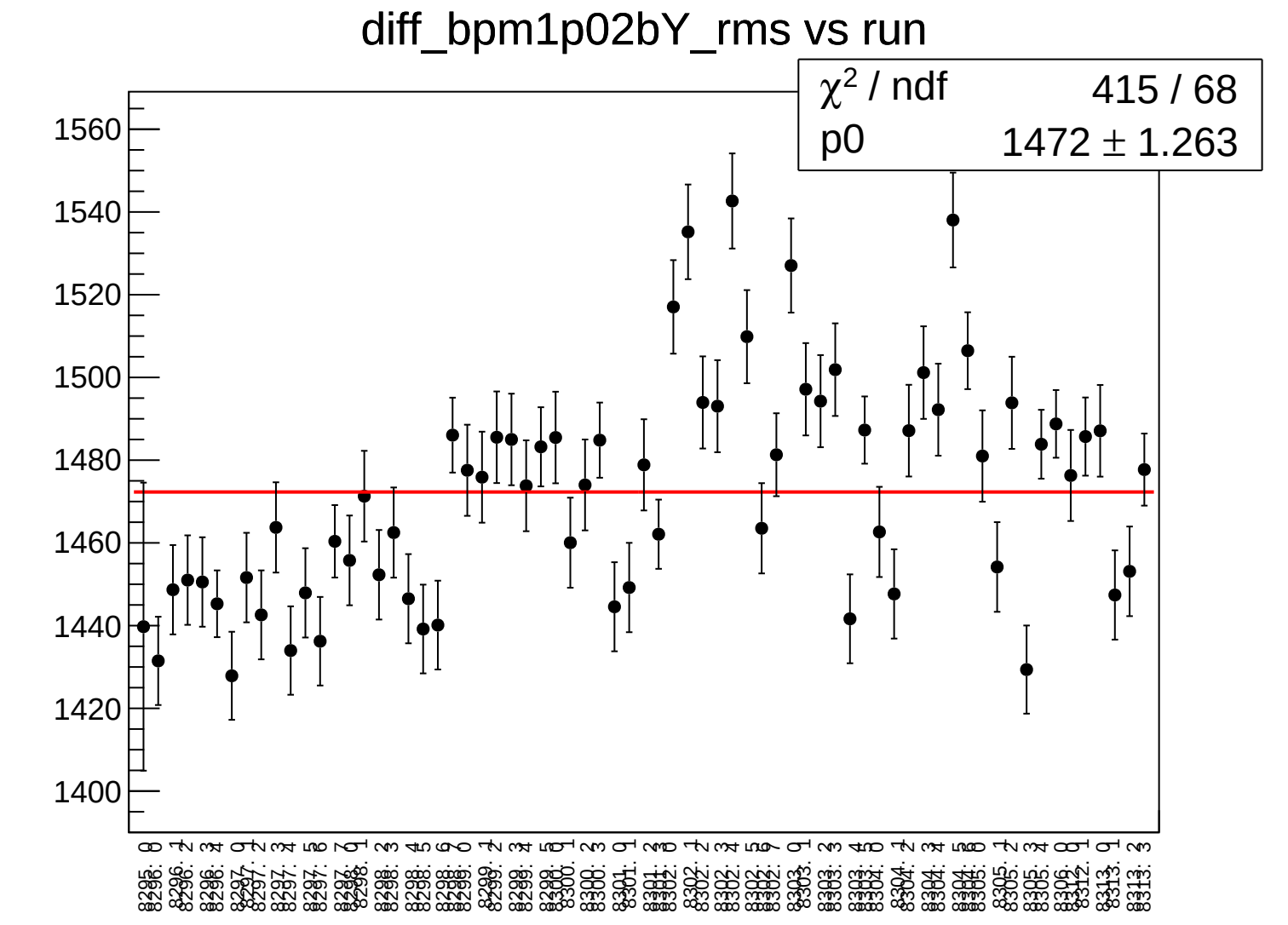

diff_bpm1p02bX_mean vs run
χ^2 / ndf 69.59 / 68
p0 −3.515 ± 2.501
150
100
50
0
−50
pull
Entries 69
Mean −452.7
Std Dev 490.8
3
2
1
0
−1
−2

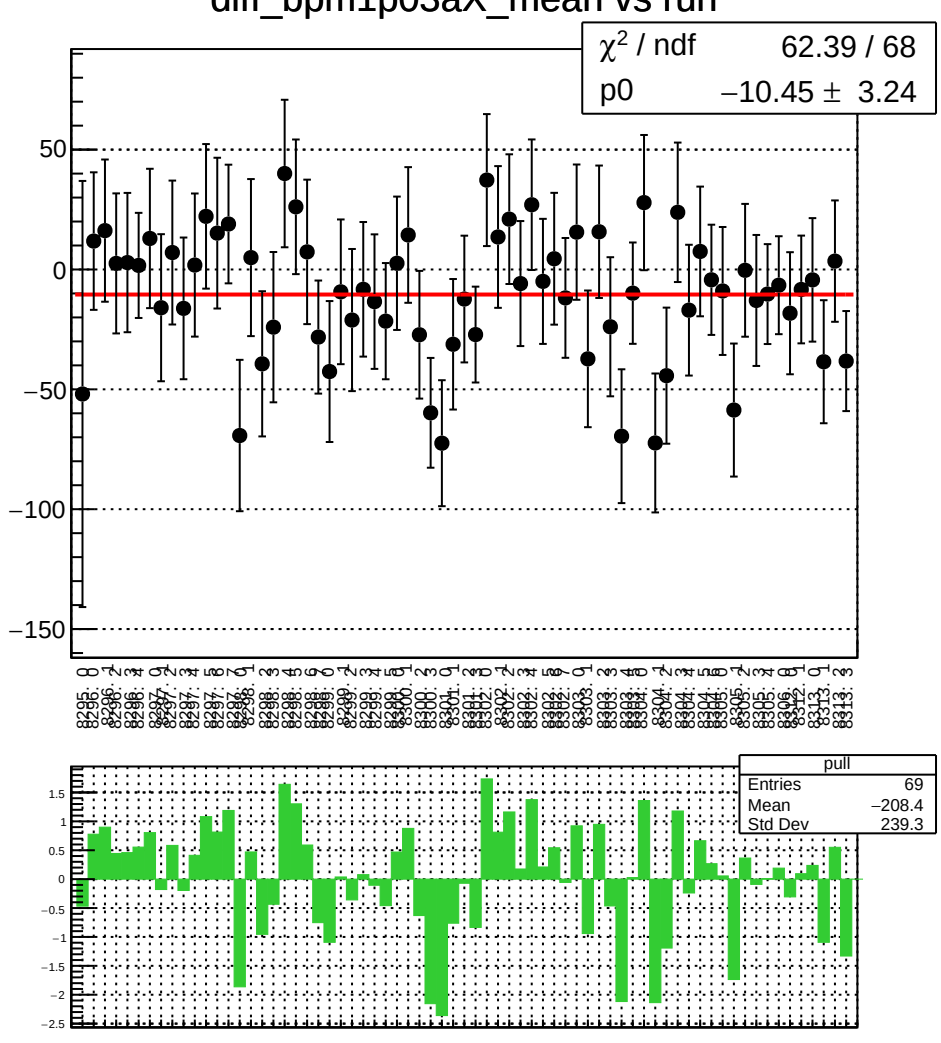

pull1D
Entries 69
Mean 0.008015
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

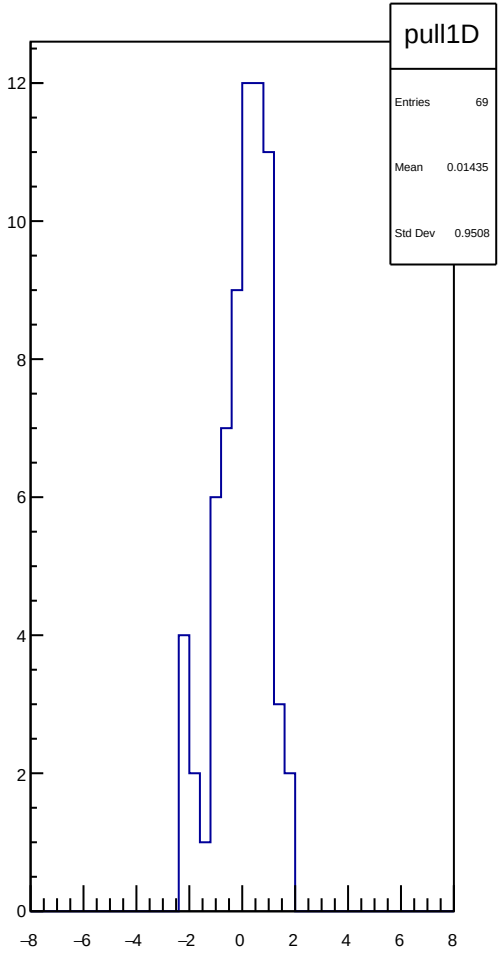

diff_bpm1p02bX_rms vs run
χ² / ndf 1331 / 68
p0 2061 ± 1.768
2200
2150
2100
2050
2000
1950
1900
1850

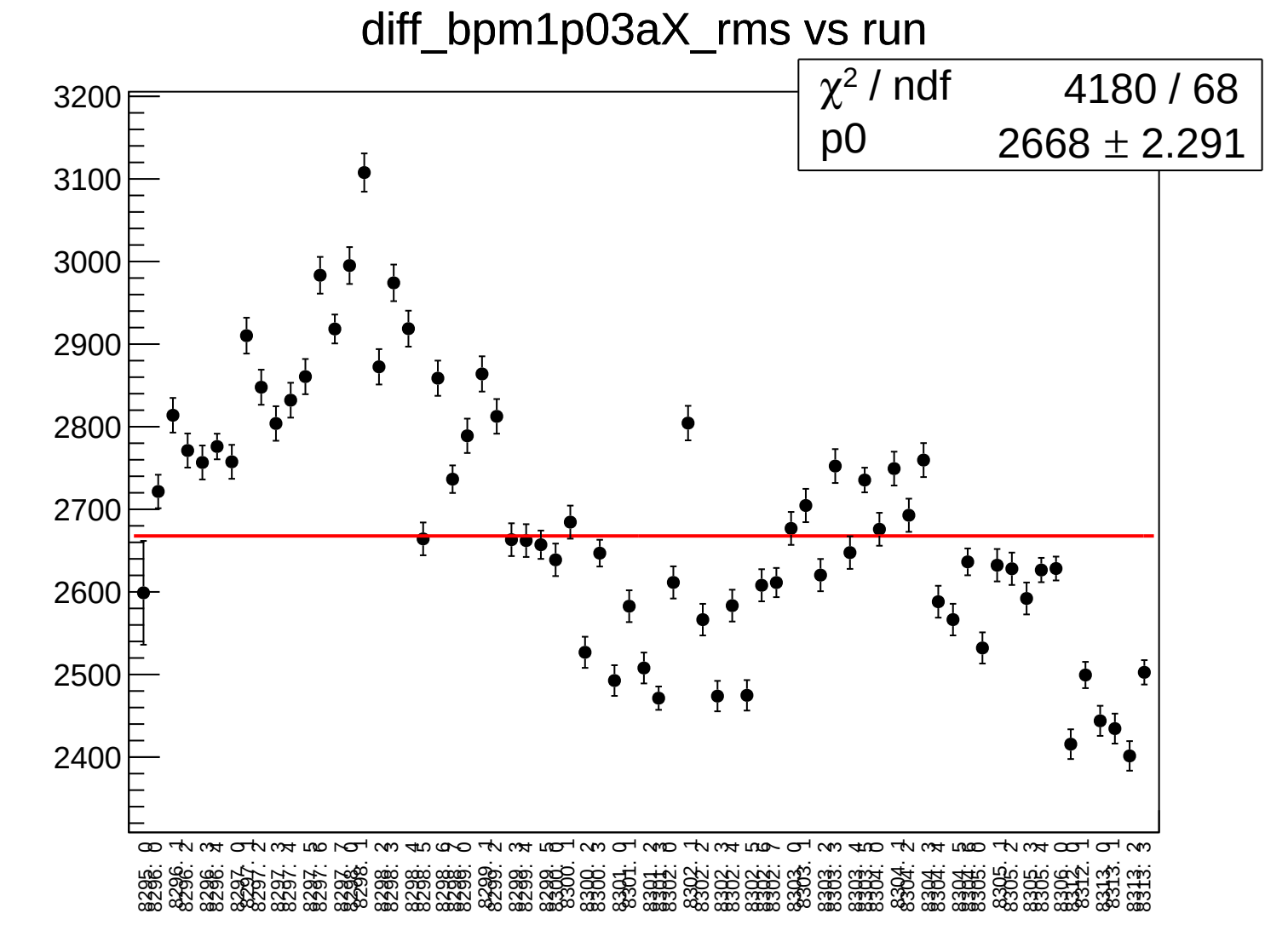

diff_bpm1p02bY_mean vs run
χ² / ndf 77.1 / 68
p0 −4.254 ± 1.786
50
0
−50
−100
−150
pull
Entries 69
Mean 8.838
Std Dev 43.7
2
1
0
−1
−2

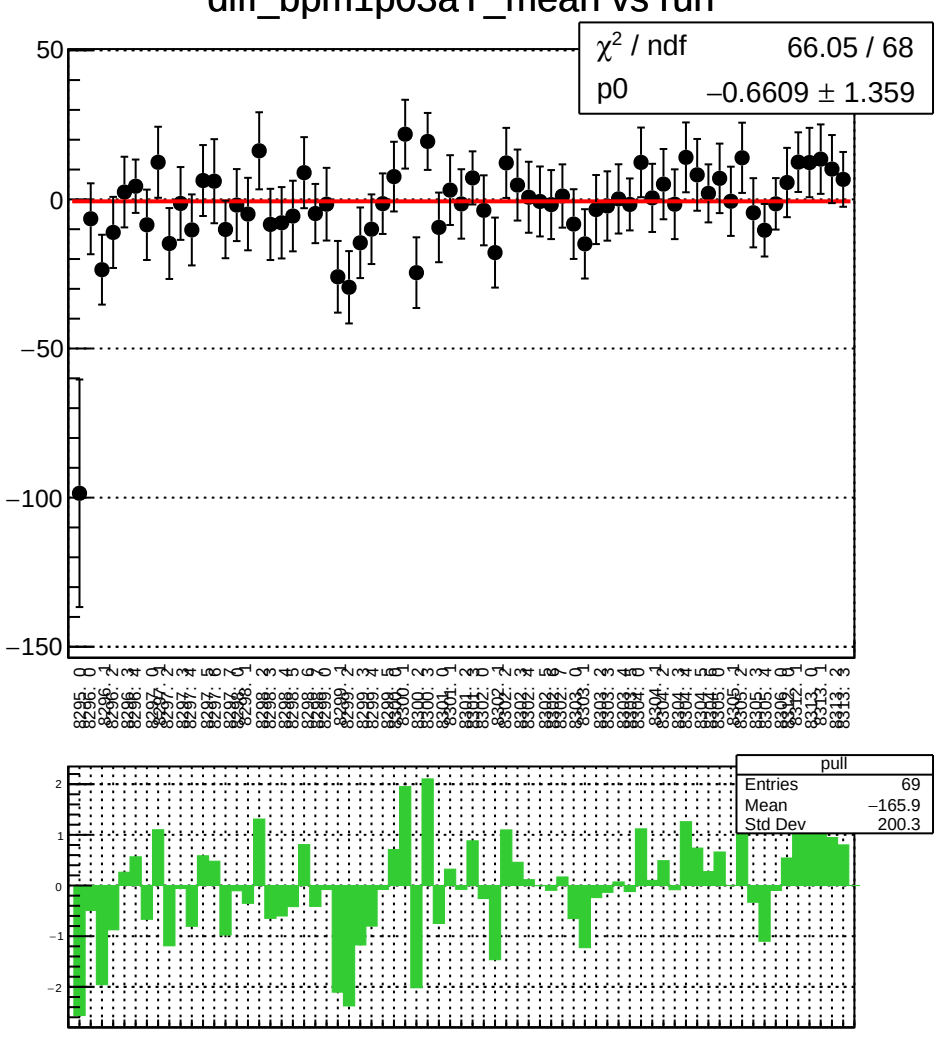

pull1D
Entries 69
Mean −0.02523
Std Dev 1.057
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

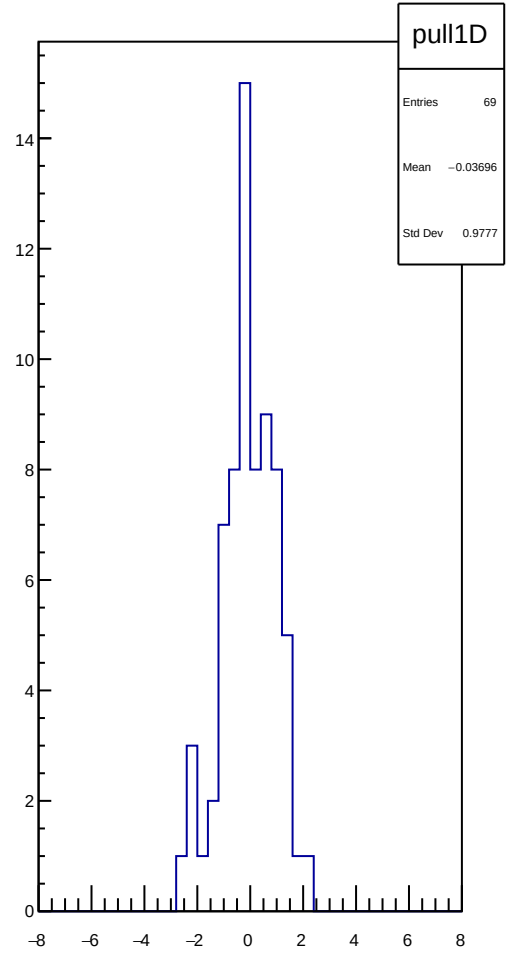

diff_bpm1p02bY_rms vs run
χ² / ndf 415 / 68
p0 1472 ± 1.263
1560
1540
1520
1500
1480
1460
1440
1420
1400

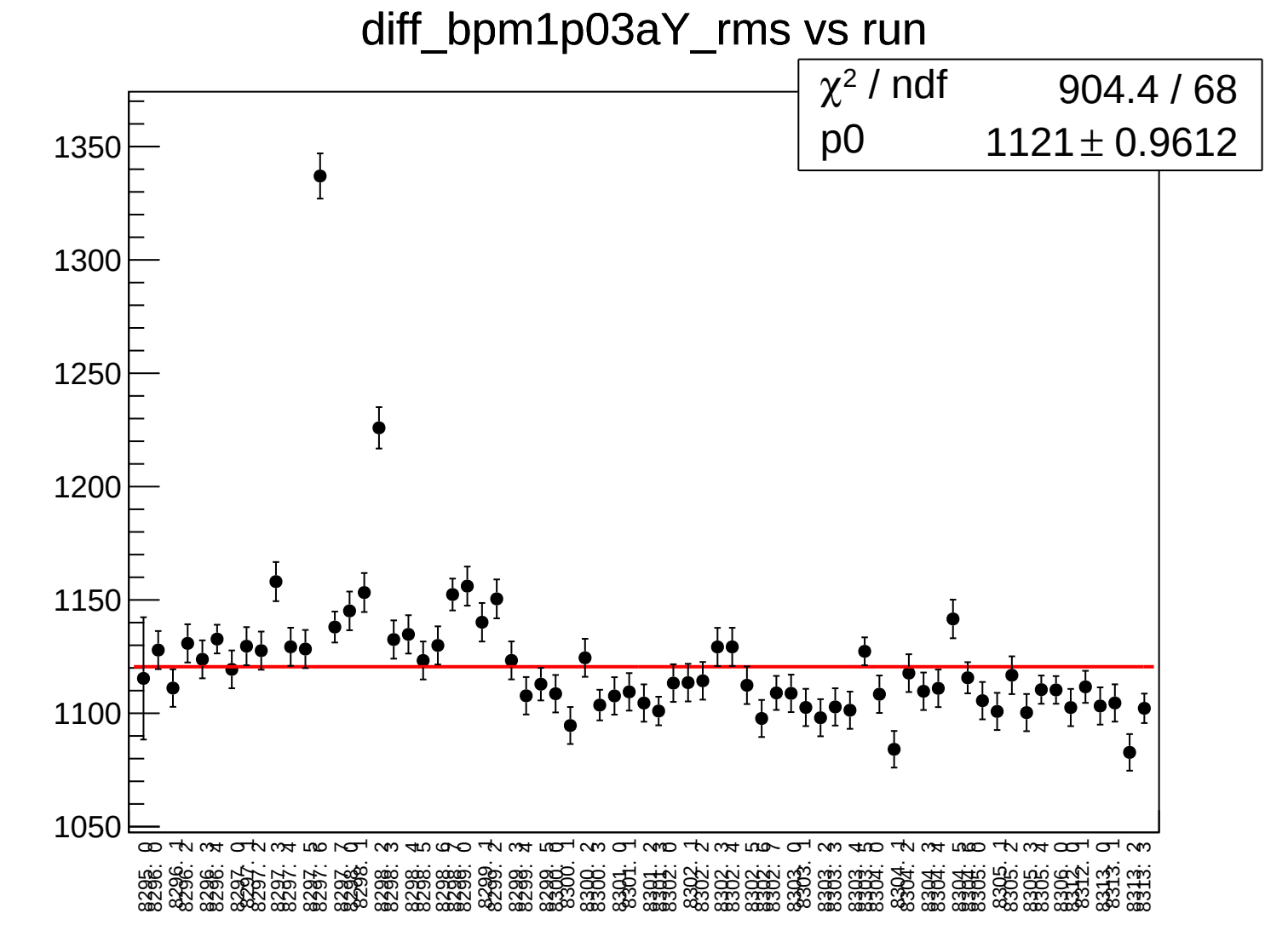

diff_bpm1p03aX_mean vs run
χ² / ndf 62.39 / 68
p0 −10.45 ± 3.24
pull
Entries 69
Mean −208.4
Std Dev 239.3

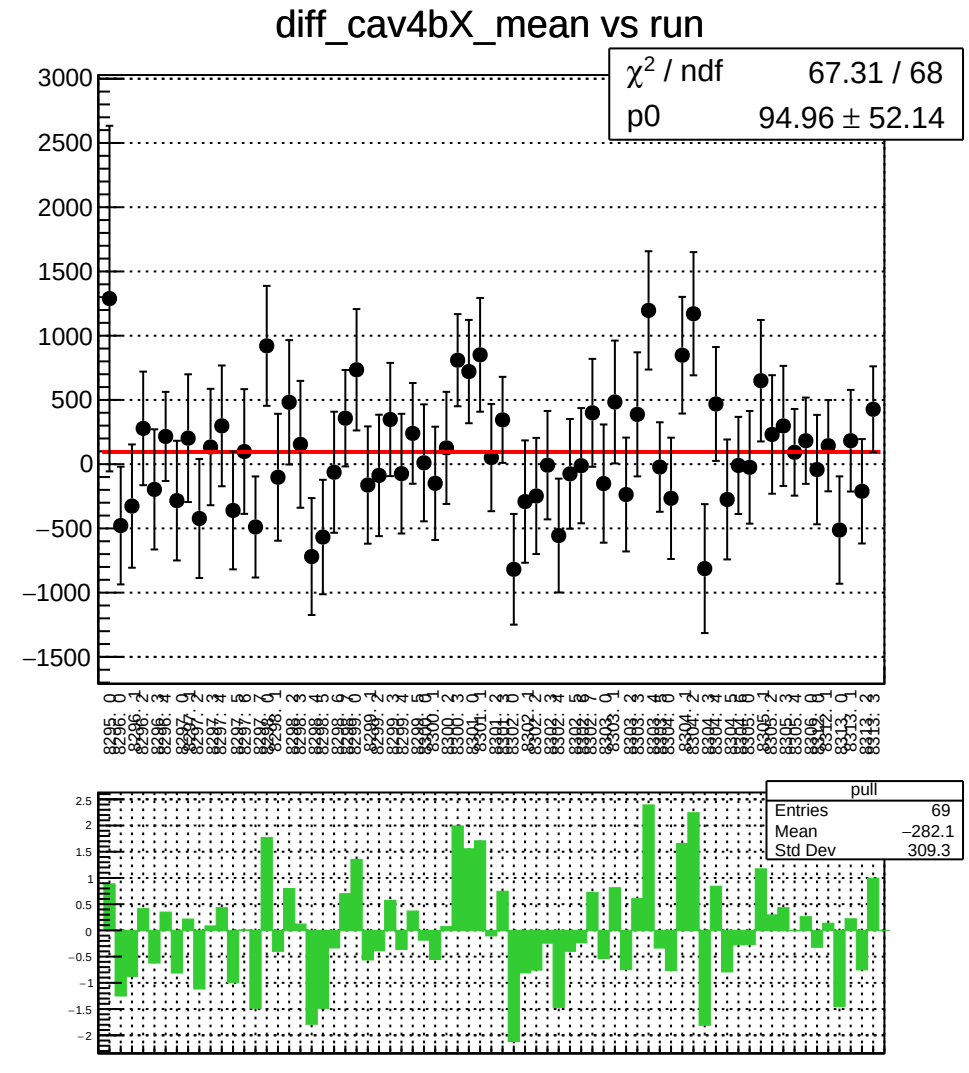

pull1D
Entries 69
Mean 0.01435
Std Dev 0.9508

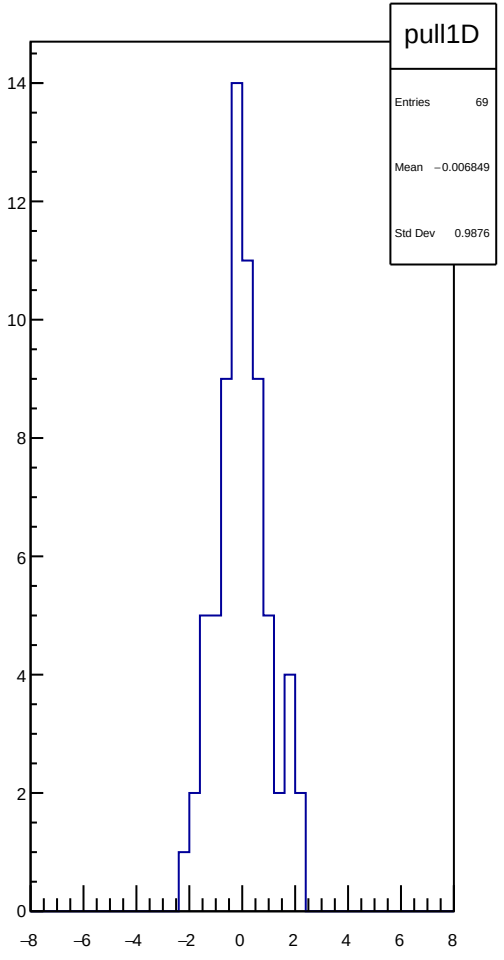

diff_bpm1p03aX_rms vs run
χ² / ndf 4180 / 68
p0 2668 ± 2.291
3200
3100
3000
2900
2800
2700
2600
2500
2400

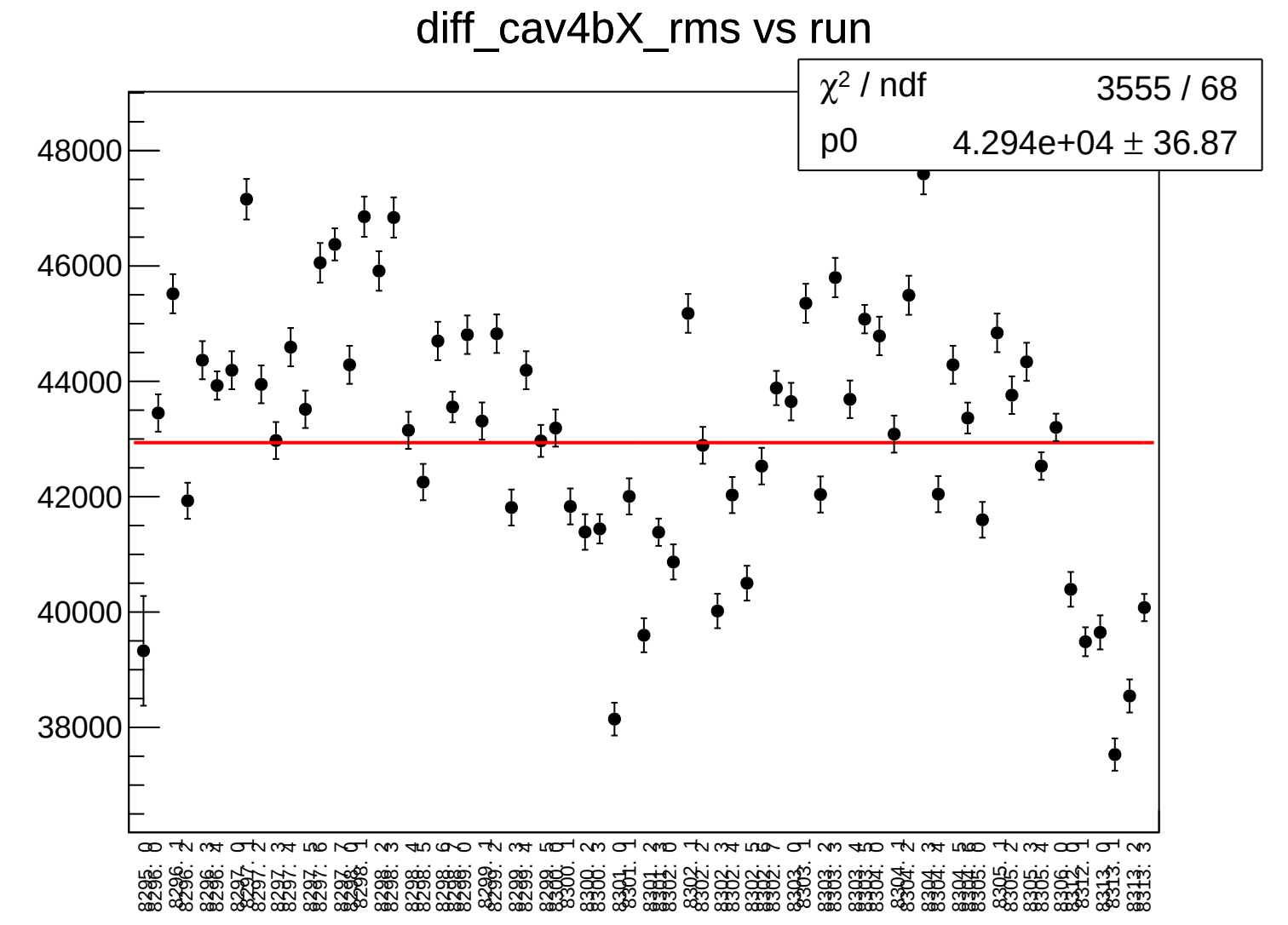

diff_bpm1p03aY_mean vs run
χ² / ndf 66.05 / 68
p0 −0.6609 ± 1.359
pull
Entries 69
Mean −165.9
Std Dev 200.3

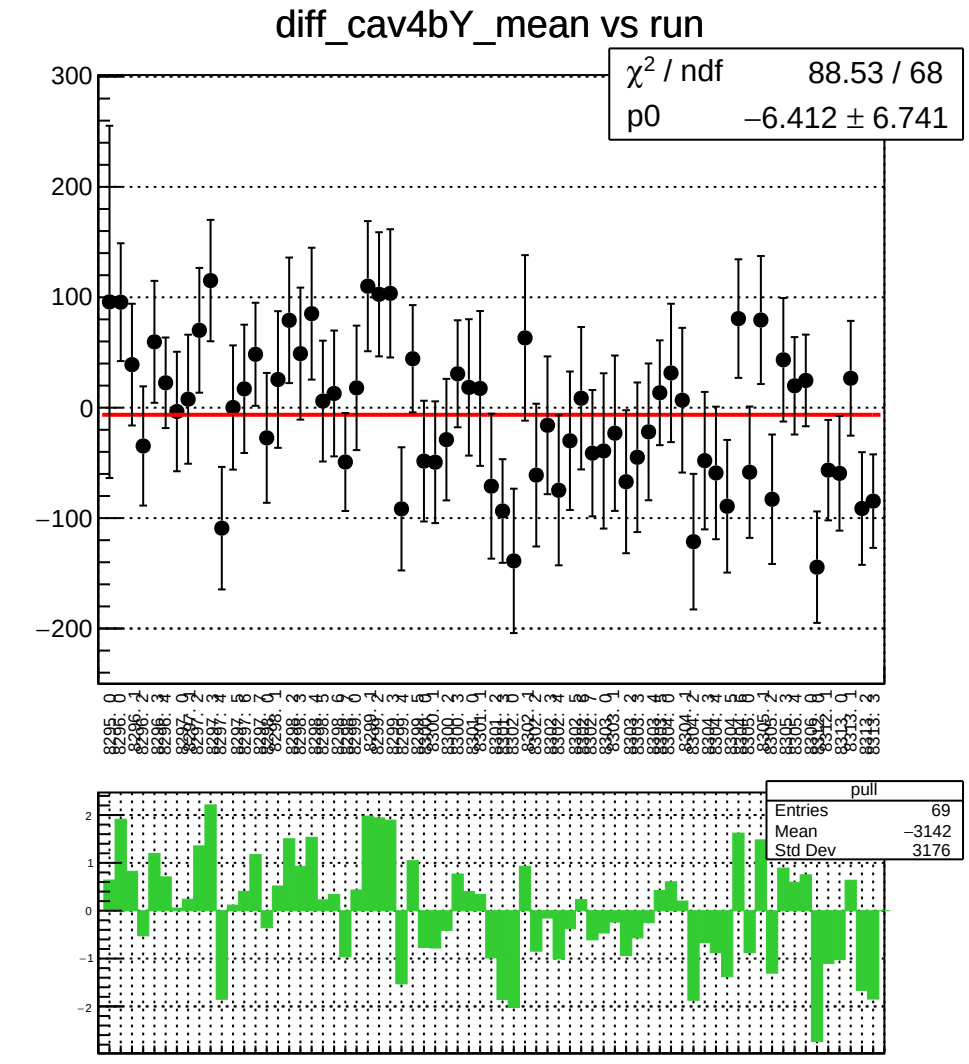

pull1D
Entries 69
Mean −0.03696
Std Dev 0.9777

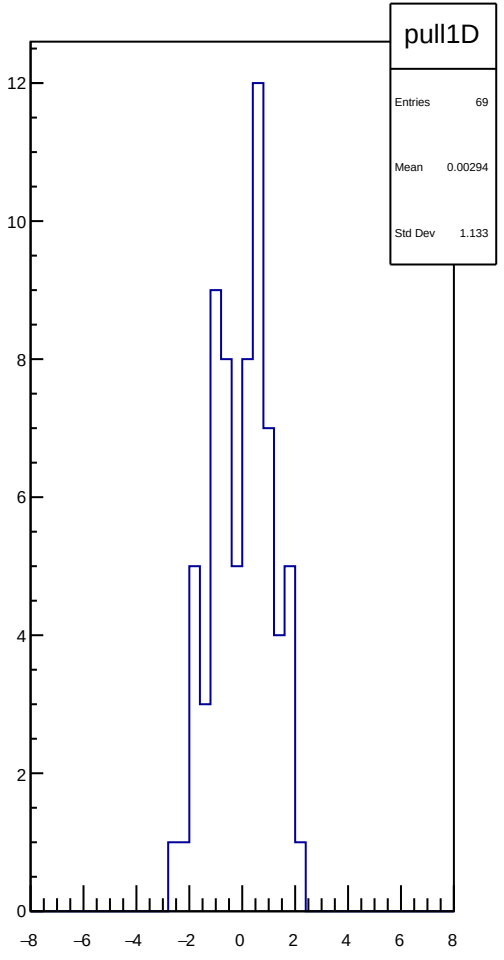

diff_bpm1p03aY_rms vs run
χ² / ndf 904.4 / 68
p0 1121 ± 0.9612
1350
1300
1250
1200
1150
1100
1050

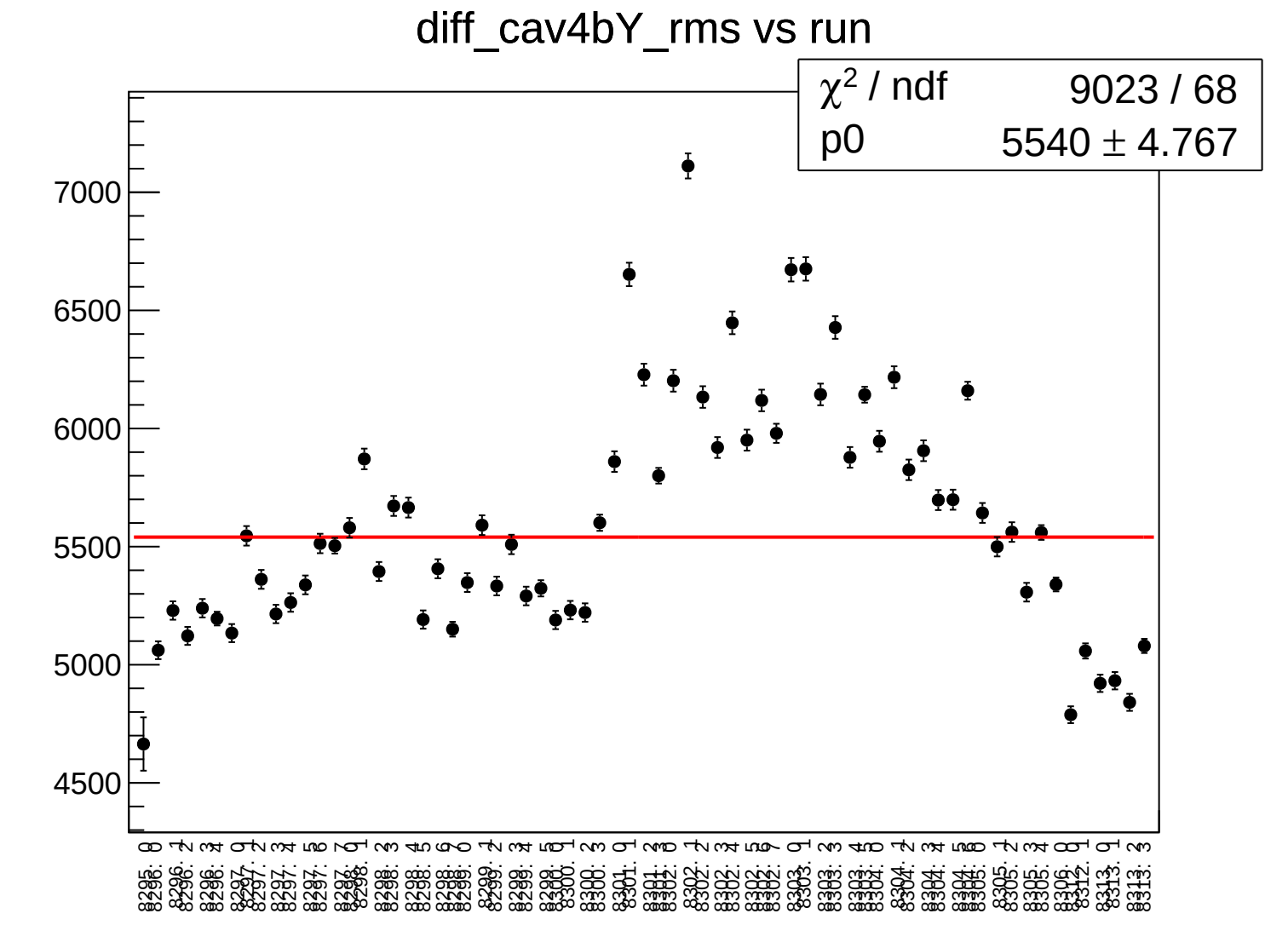

diff_cav4bX_mean vs run
χ² / ndf 67.31 / 68
p0 94.96 ± 52.14
pull
Entries 69
Mean −282.1
Std Dev 309.3

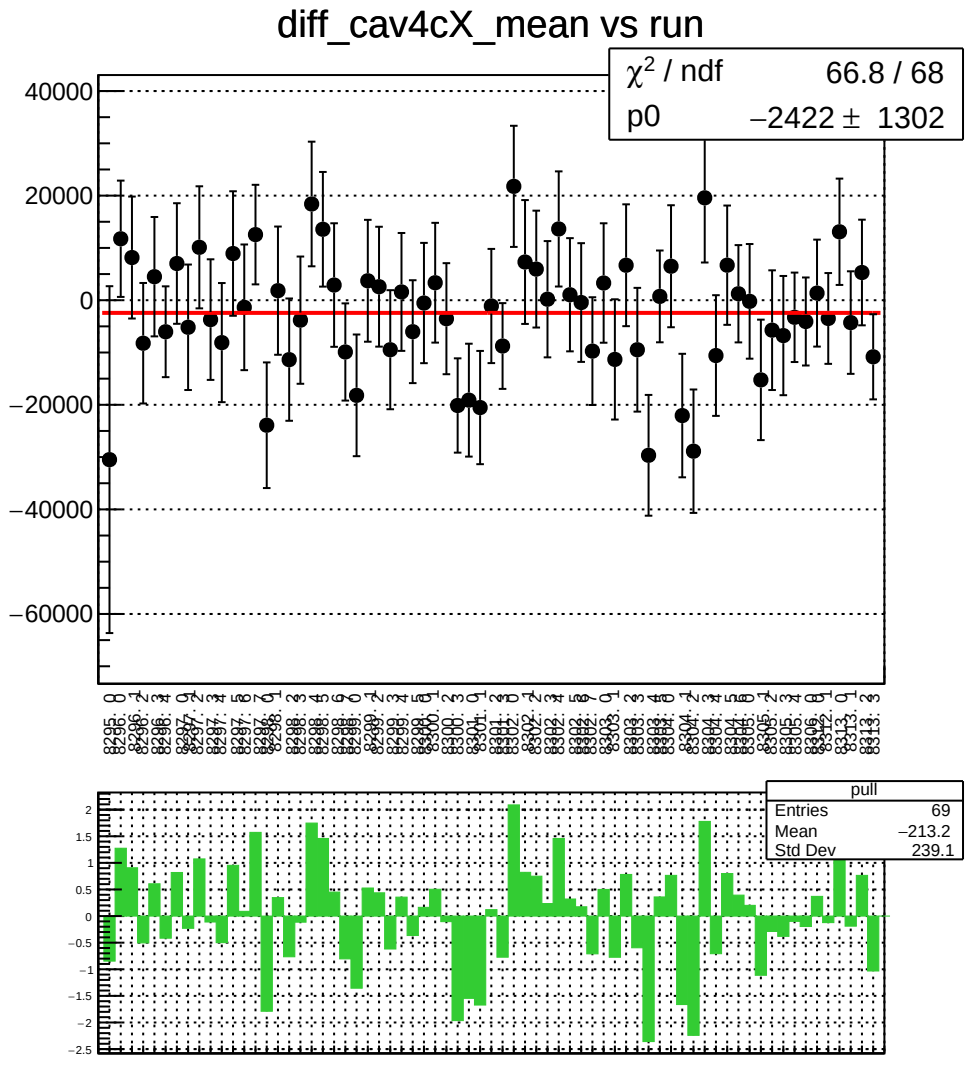

pull1D
Entries 69
Mean −0.006849
Std Dev 0.9876

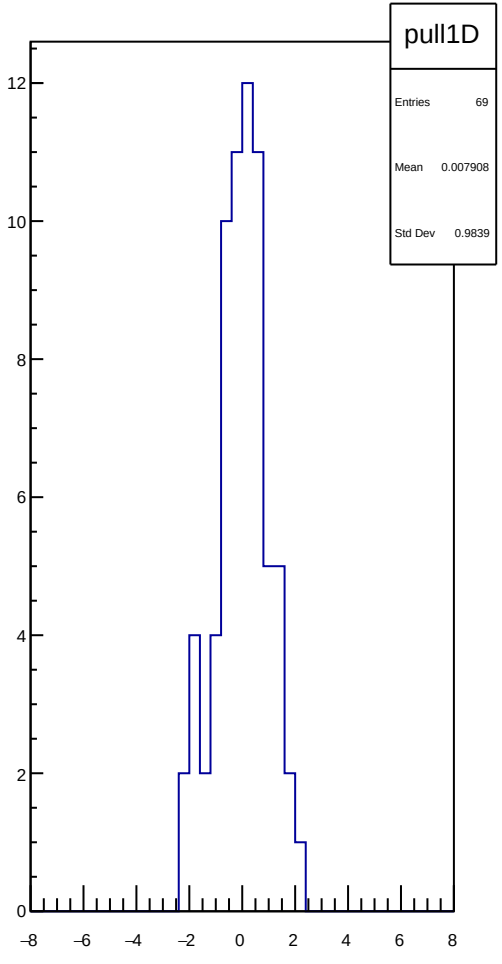

diff_cav4bX_rms vs run
χ² / ndf 3555 / 68
p0 4.294e+04 ± 36.87
48000
46000
44000
42000
40000
38000

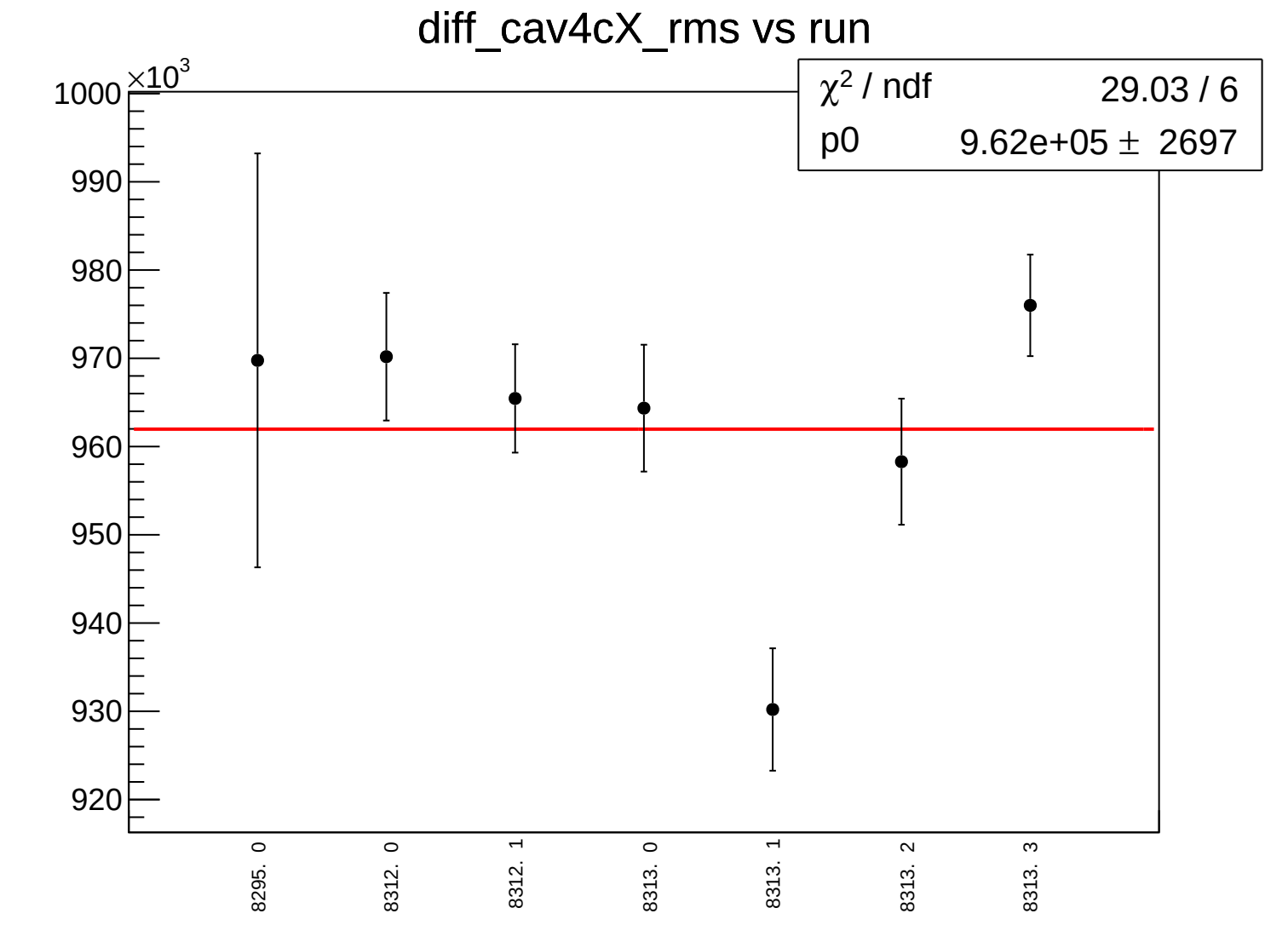

diff_cav4bY_mean vs run
χ² / ndf 88.53 / 68
p0 −6.412 ± 6.741
pull
Entries 69
Mean −3142
Std Dev 3176

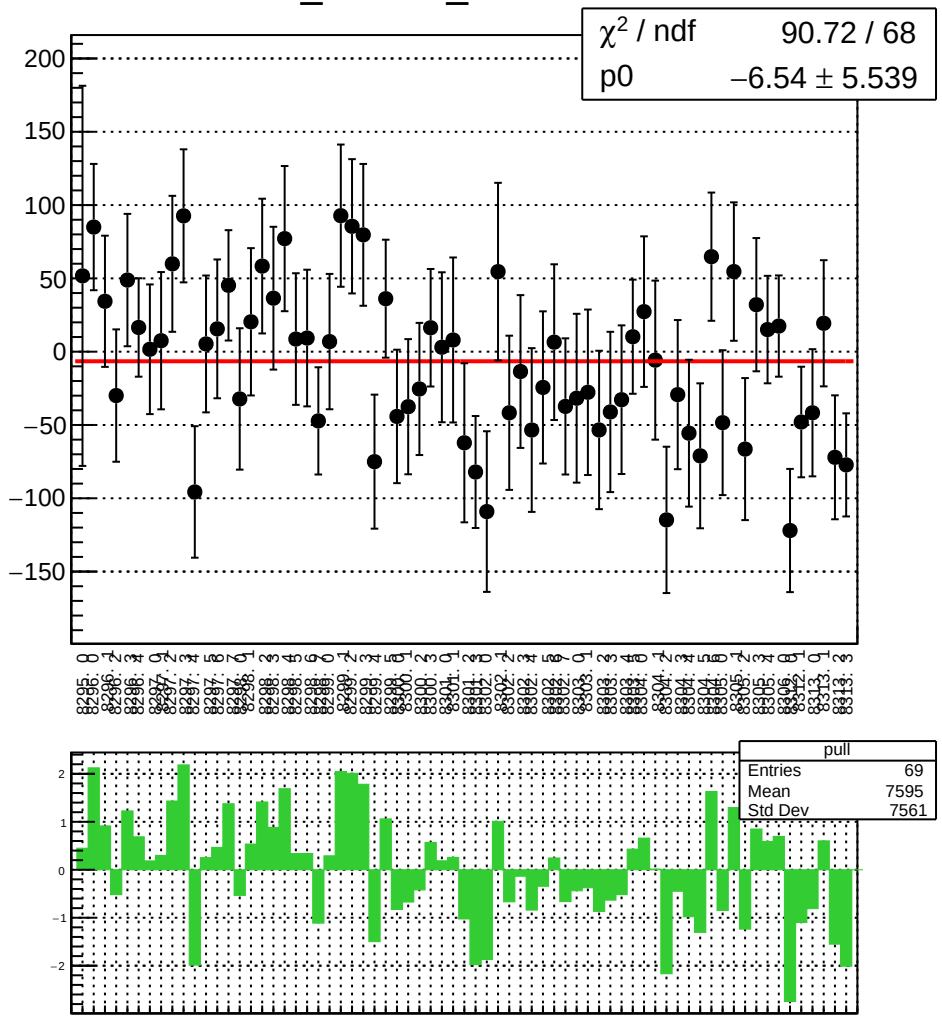

pull1D
Entries 69
Mean 0.00294
Std Dev 1.133

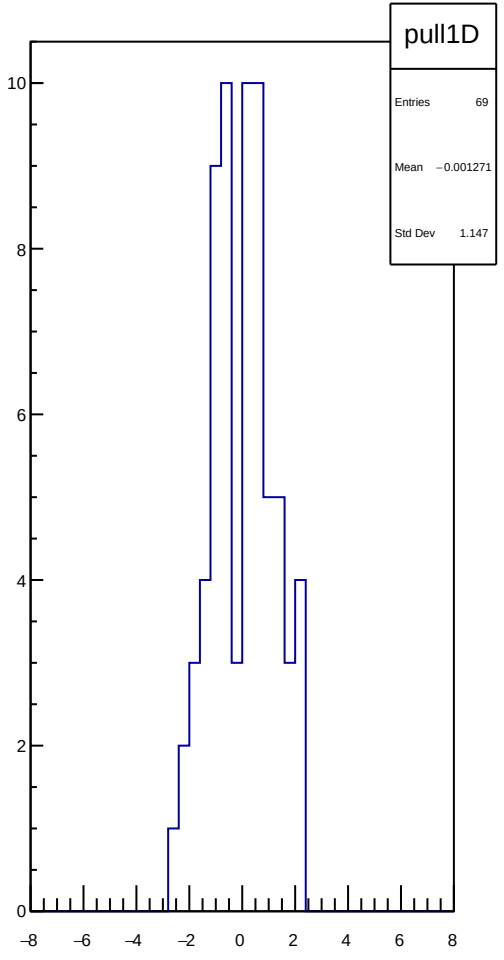

diff_cav4bY_rms vs run
χ² / ndf 9023 / 68
p0 5540 ± 4.767
7000
6500
6000
5500
5000
4500

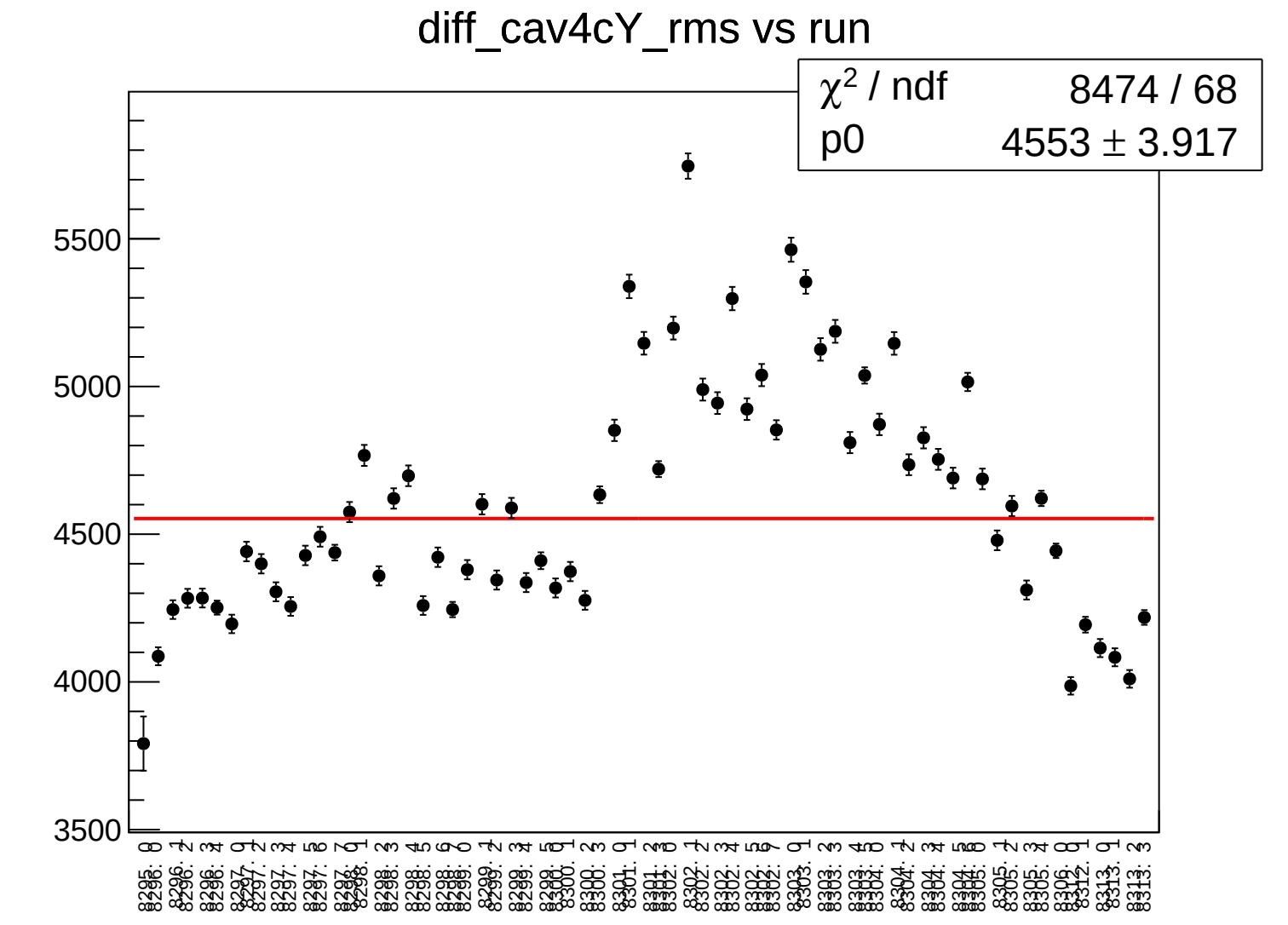

diff_cav4cX_mean vs run
χ² / ndf 66.8 / 68
p0 −2422 ± 1302
pull
Entries 69
Mean −213.2
Std Dev 239.1

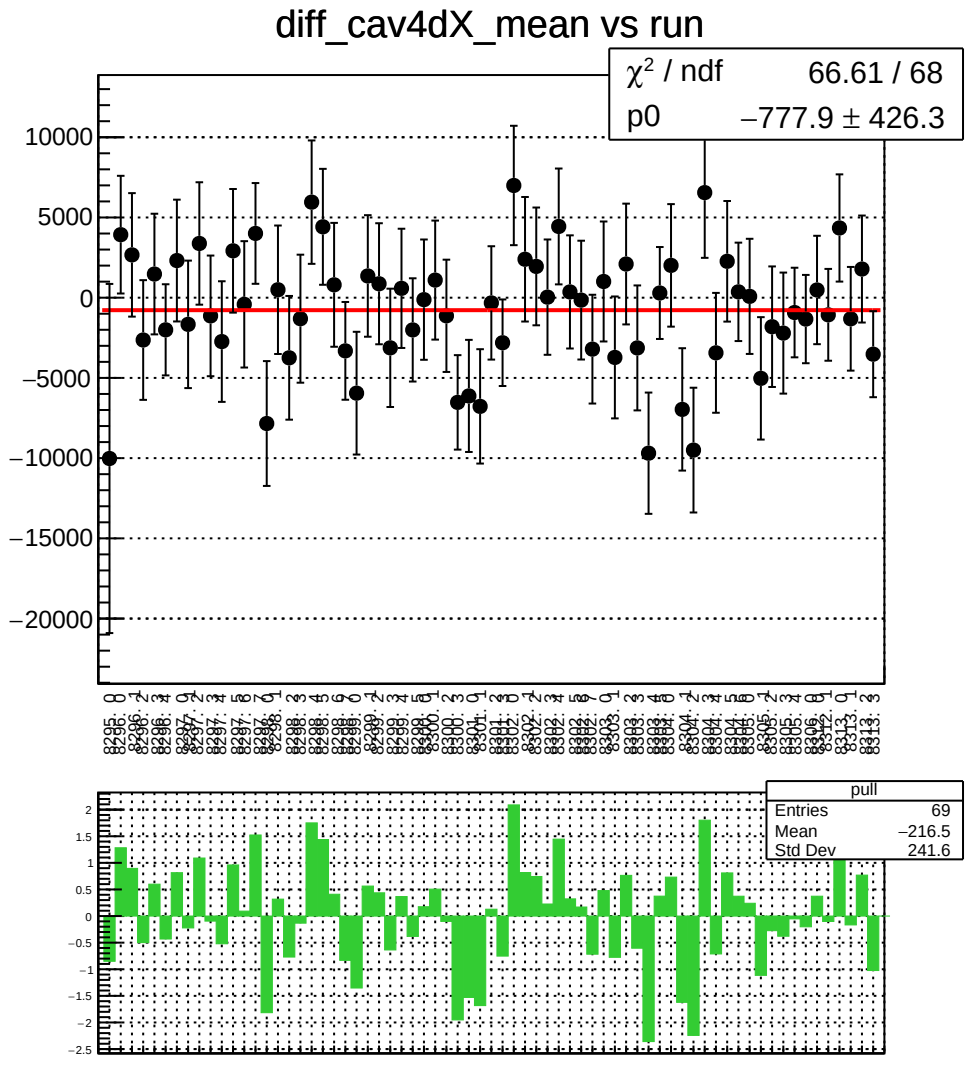

pull1D
Entries 69
Mean 0.007908
Std Dev 0.9839

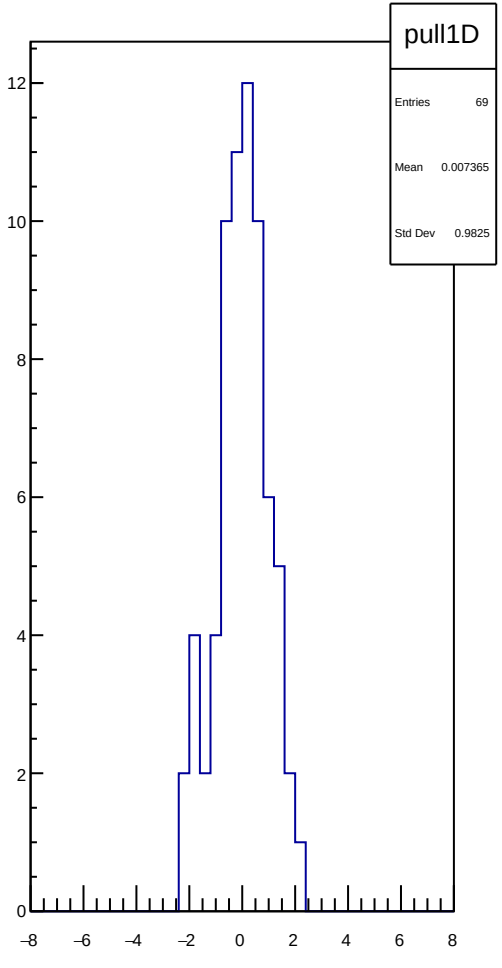

diff_cav4cX_rms vs run
χ^2 / ndf 29.03 / 6
p0 9.62e+05 ± 2697
×10^3
1000
990
980
970
960
950
940
930
920
8295. 0
8312. 0
8312. 1
8313. 0
8313. 1
8313. 2
8313. 3

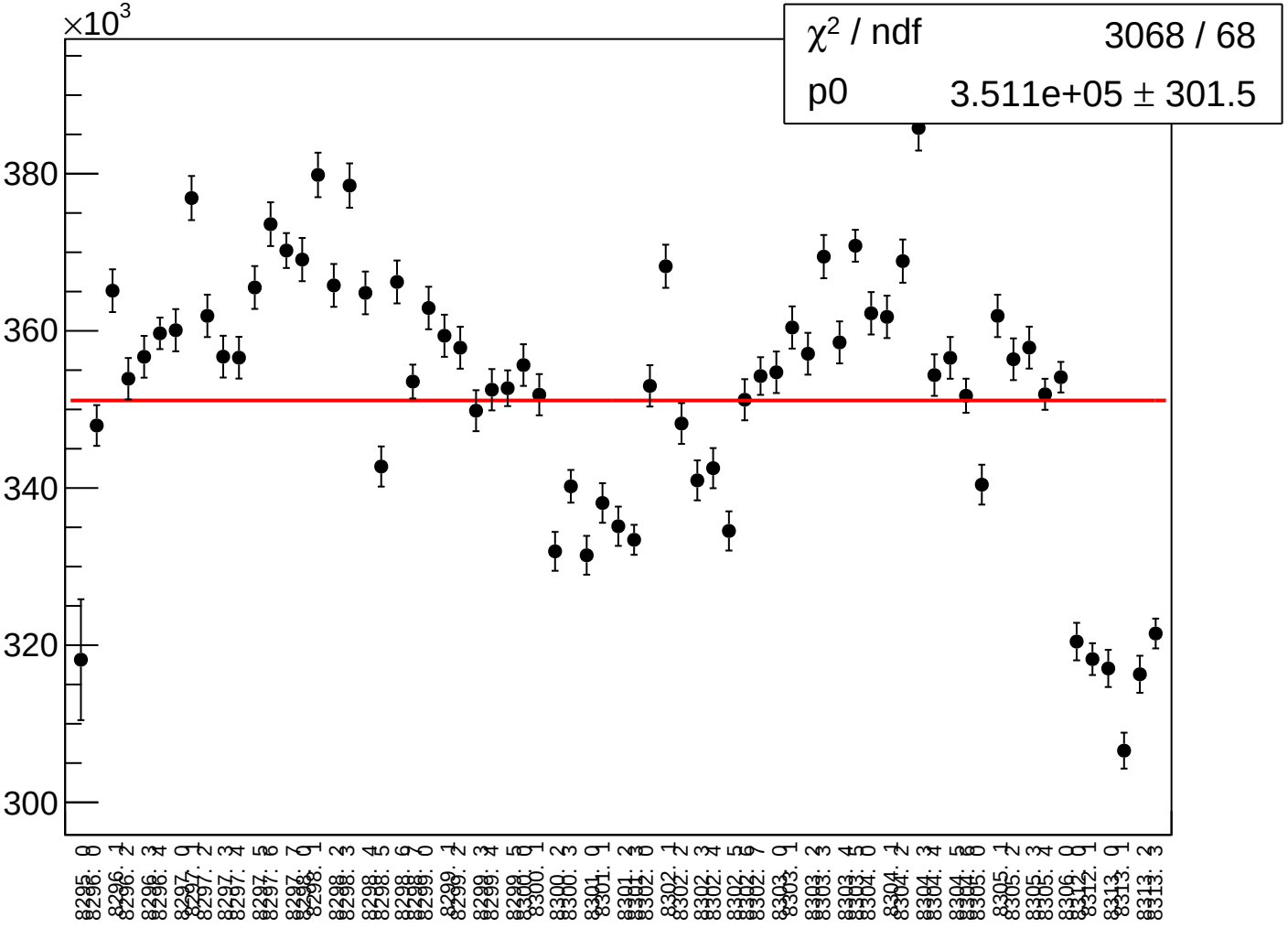

diff_cav4cY_mean vs run
χ² / ndf 90.72 / 68
p0 −6.54 ± 5.539
pull
Entries 69
Mean 7595
Std Dev 7561

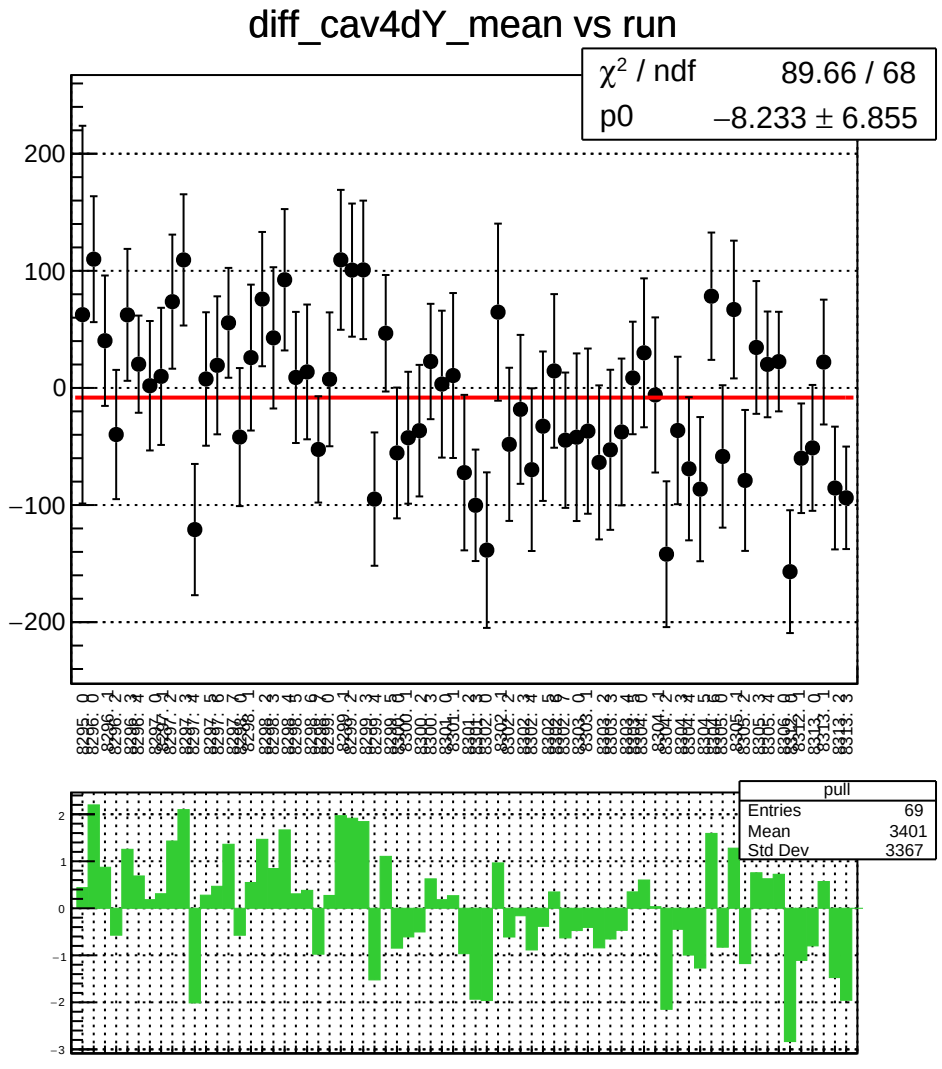

pull1D
Entries 69
Mean −0.001271
Std Dev 1.147

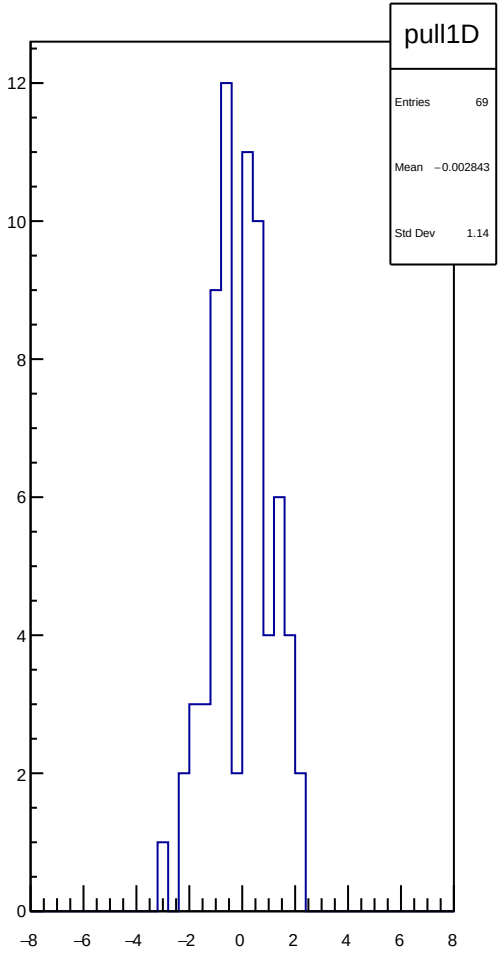

diff_cav4cY_rms vs run
χ² / ndf 8474 / 68
p0 4553 ± 3.917
5500
5000
4500
4000
3500

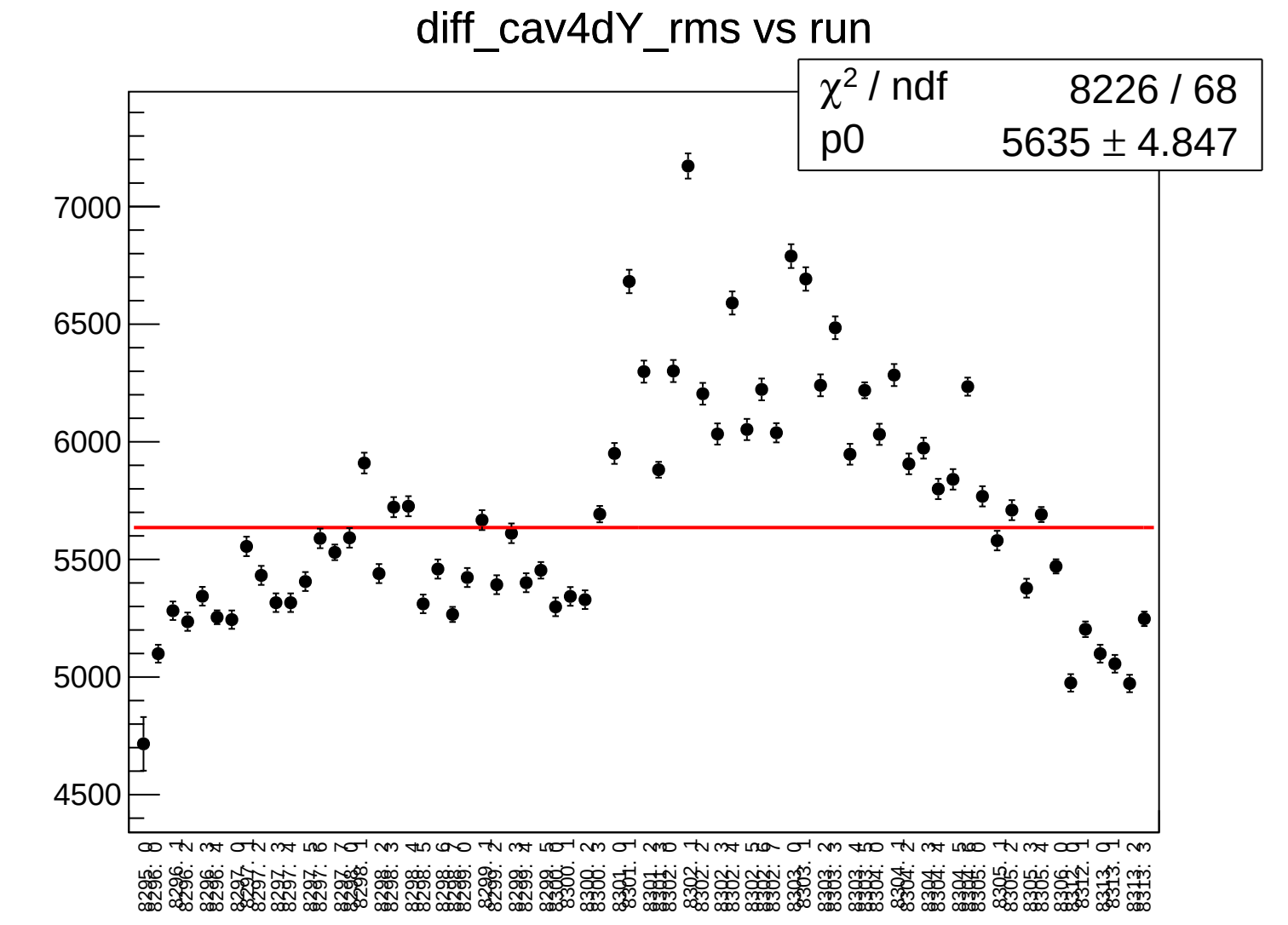

diff_cav4dX_mean vs run
χ² / ndf 66.61 / 68
p0 −777.9 ± 426.3
pull
Entries 69
Mean −216.5
Std Dev 241.6

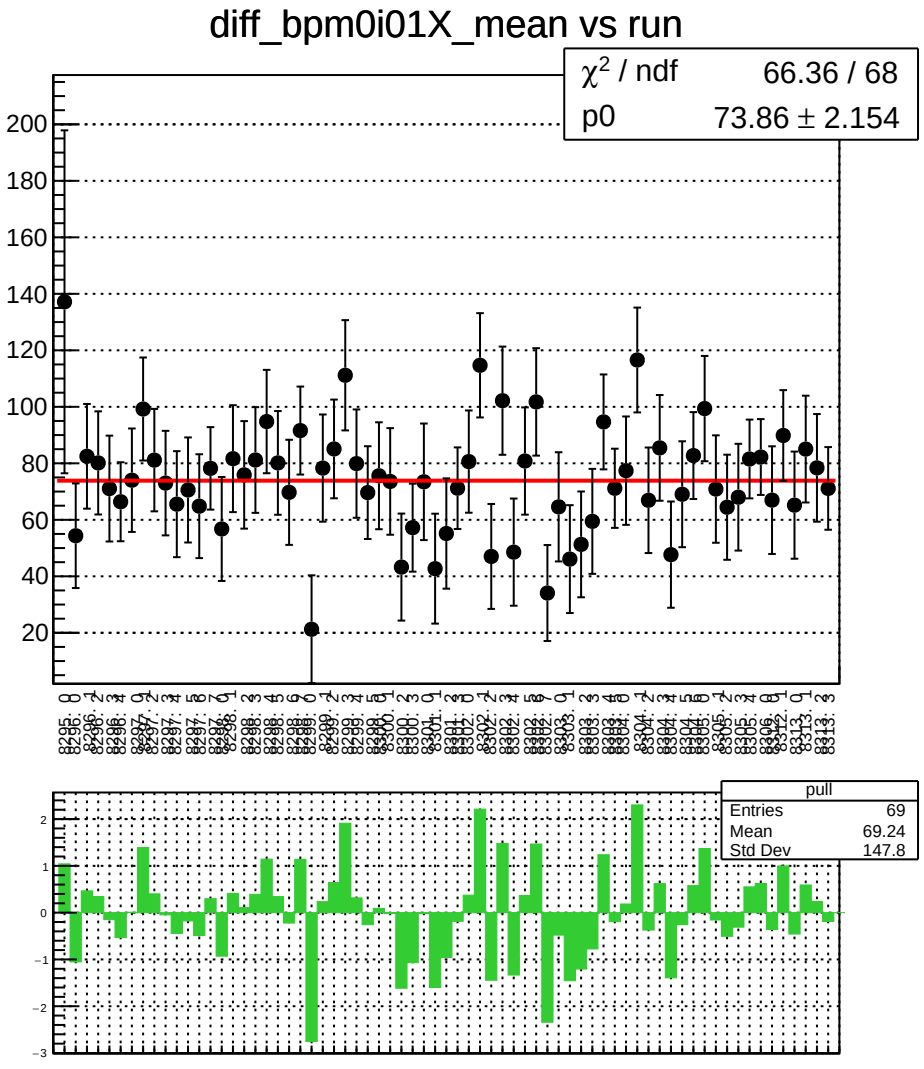

pull1D
Entries 69
Mean 0.007365
Std Dev 0.9825

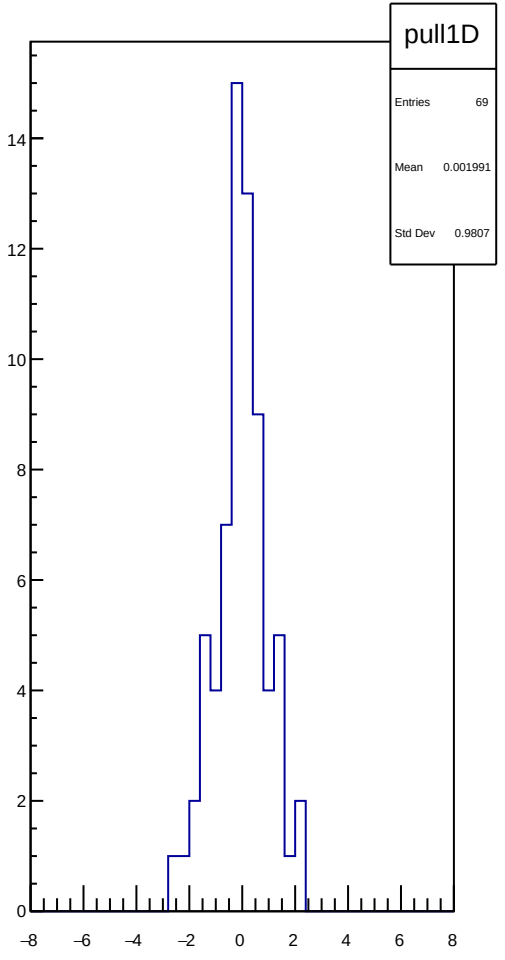

diff_cav4dX_rms vs run
×10^3
χ² / ndf 3068 / 68
p0 3.511e+05 ± 301.5
380
360
340
320
300

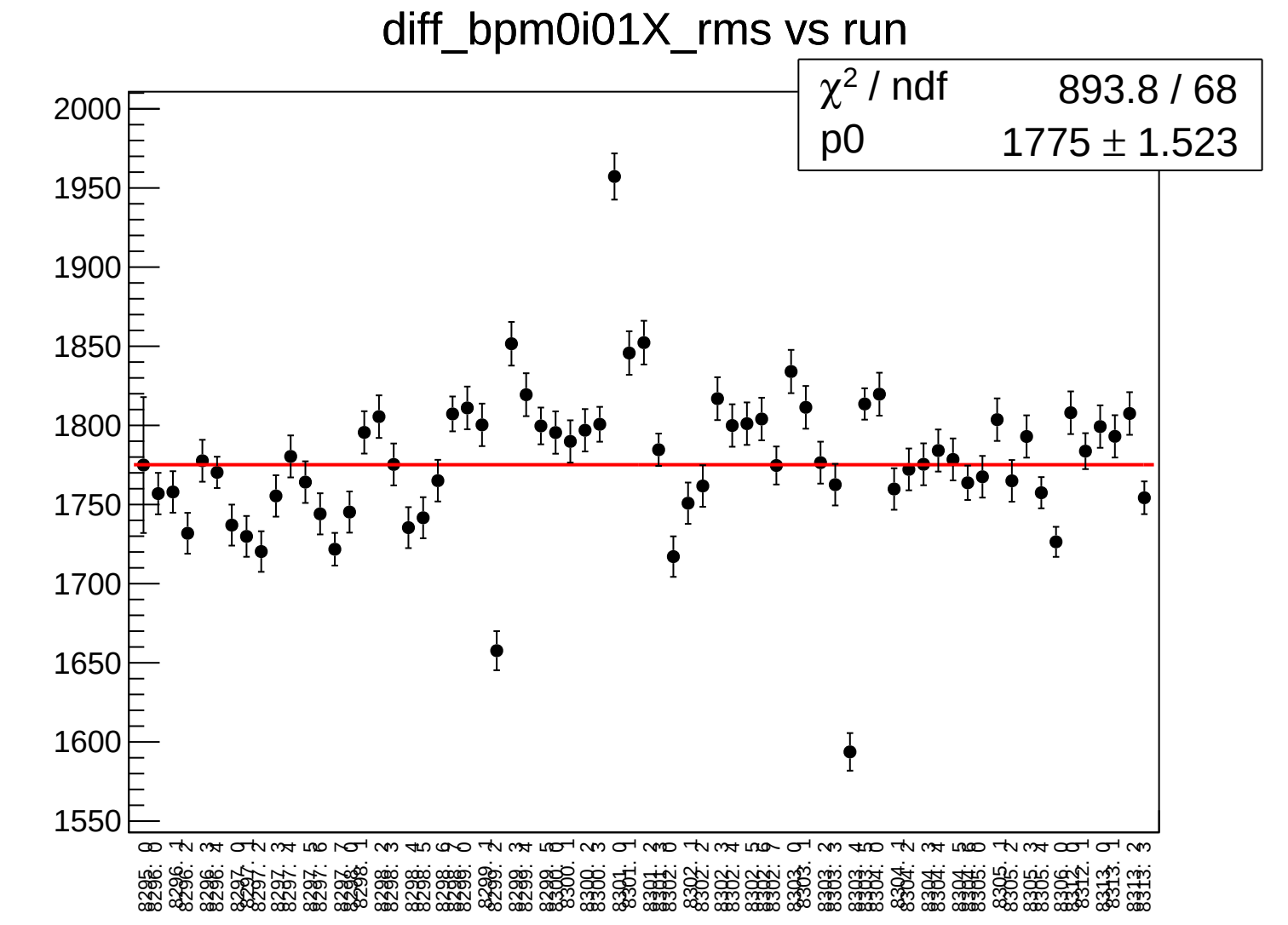

diff_cav4dY_mean vs run
χ² / ndf 89.66 / 68
p0 −8.233 ± 6.855
pull
Entries 69
Mean 3401
Std Dev 3367

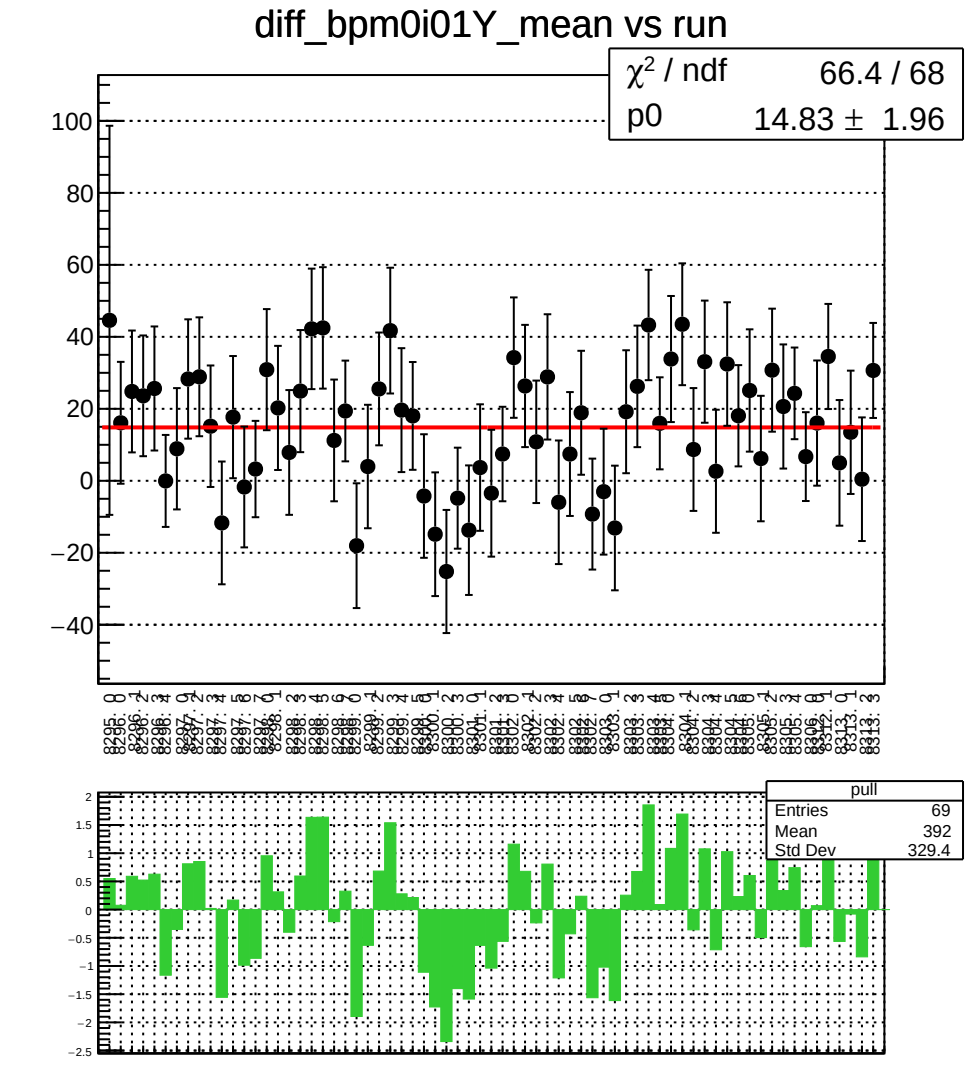

pull1D
Entries 69
Mean −0.002843
Std Dev 1.14

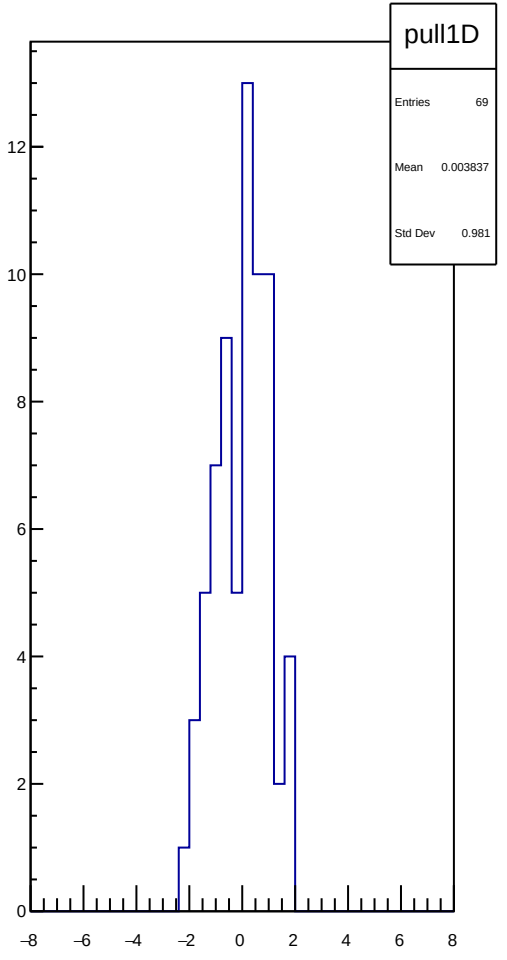

diff_cav4dY_rms vs run
χ² / ndf 8226 / 68
p0 5635 ± 4.847
7000
6500
6000
5500
5000
4500

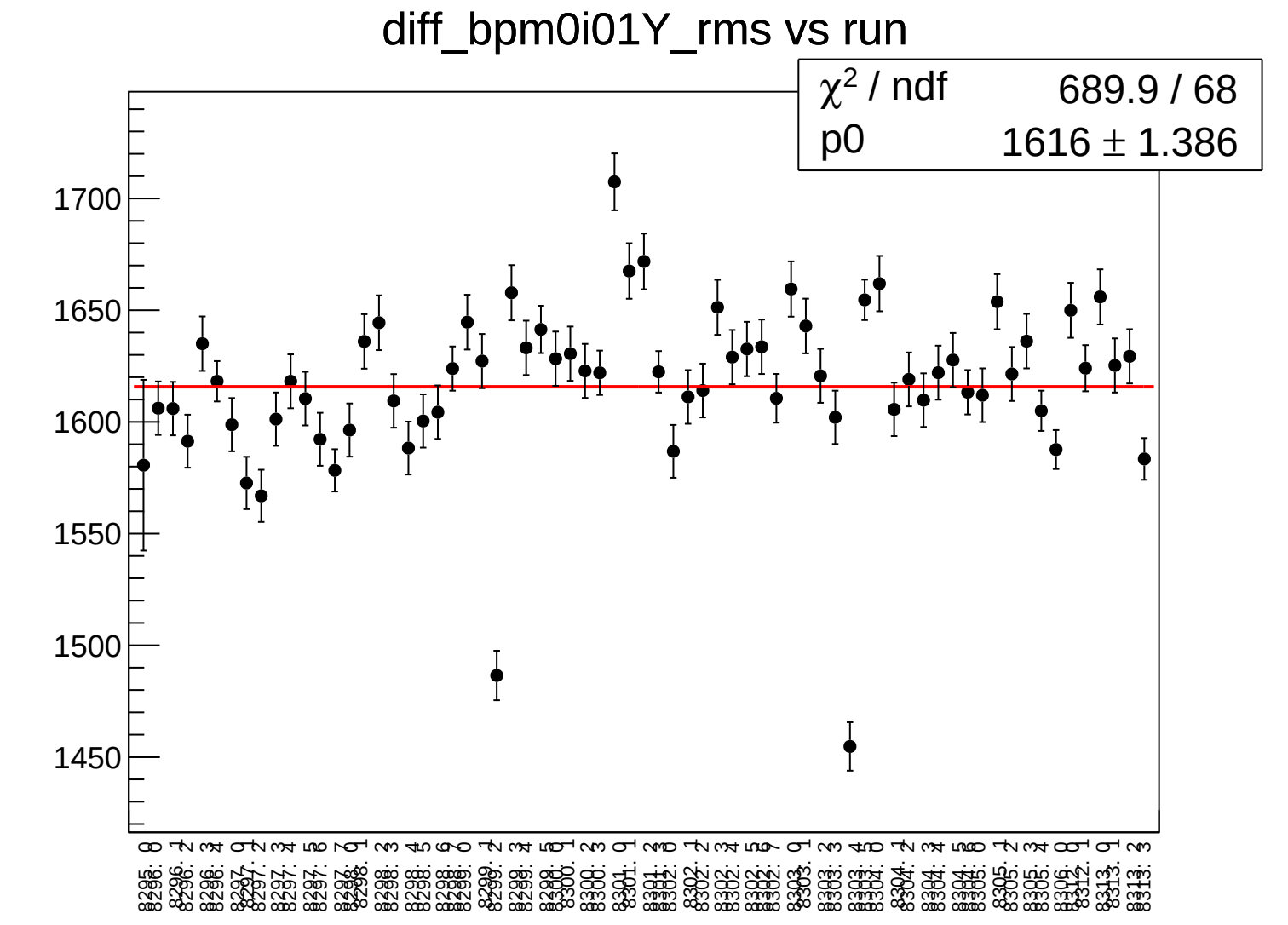

diff_bpm0i01X_mean vs run
χ^2 / ndf 66.36 / 68
p0 73.86 ± 2.154
pull
Entries 69
Mean 69.24
Std Dev 147.8

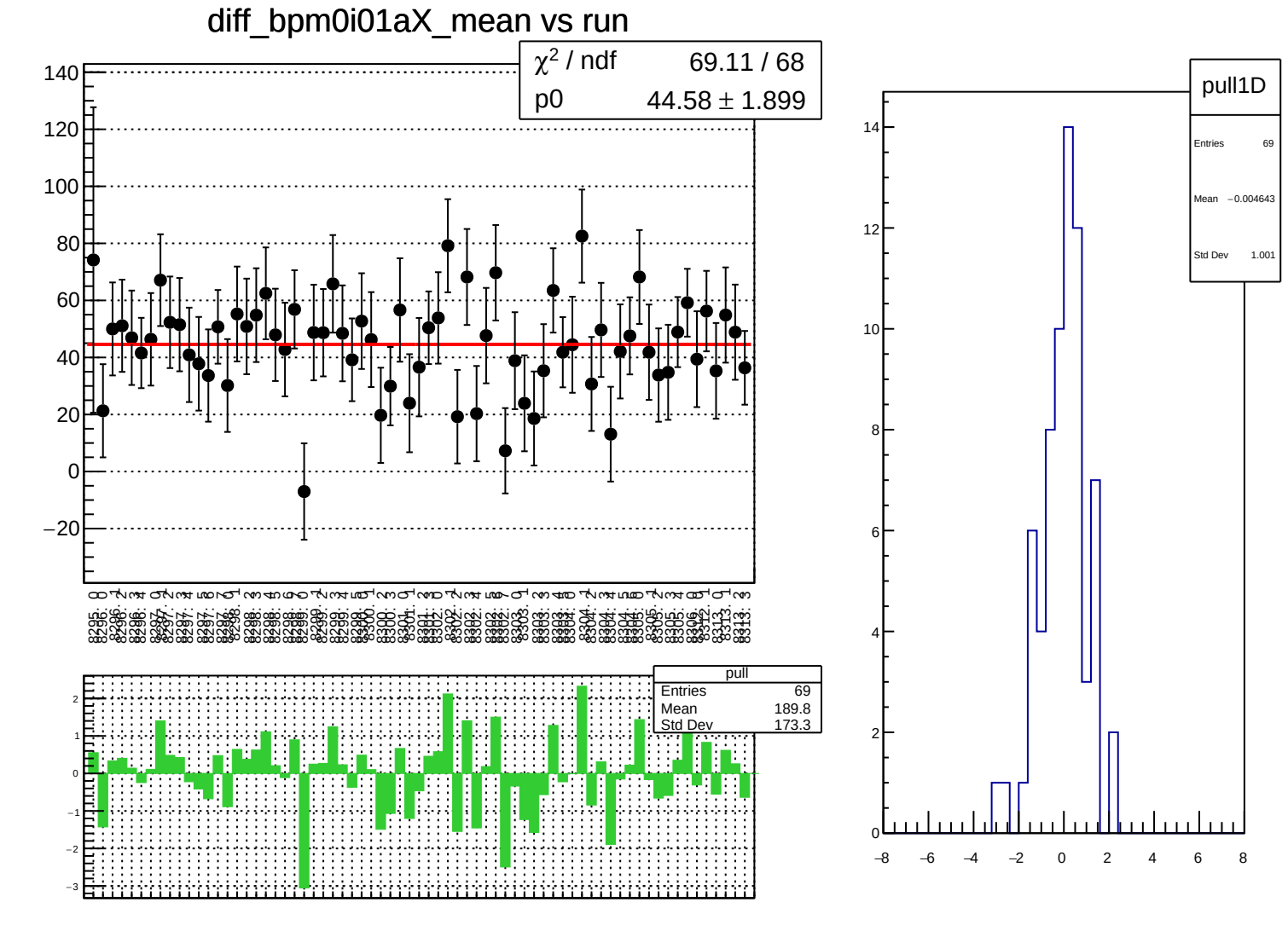

pull1D
Entries 69
Mean 0.001991
Std Dev 0.9807

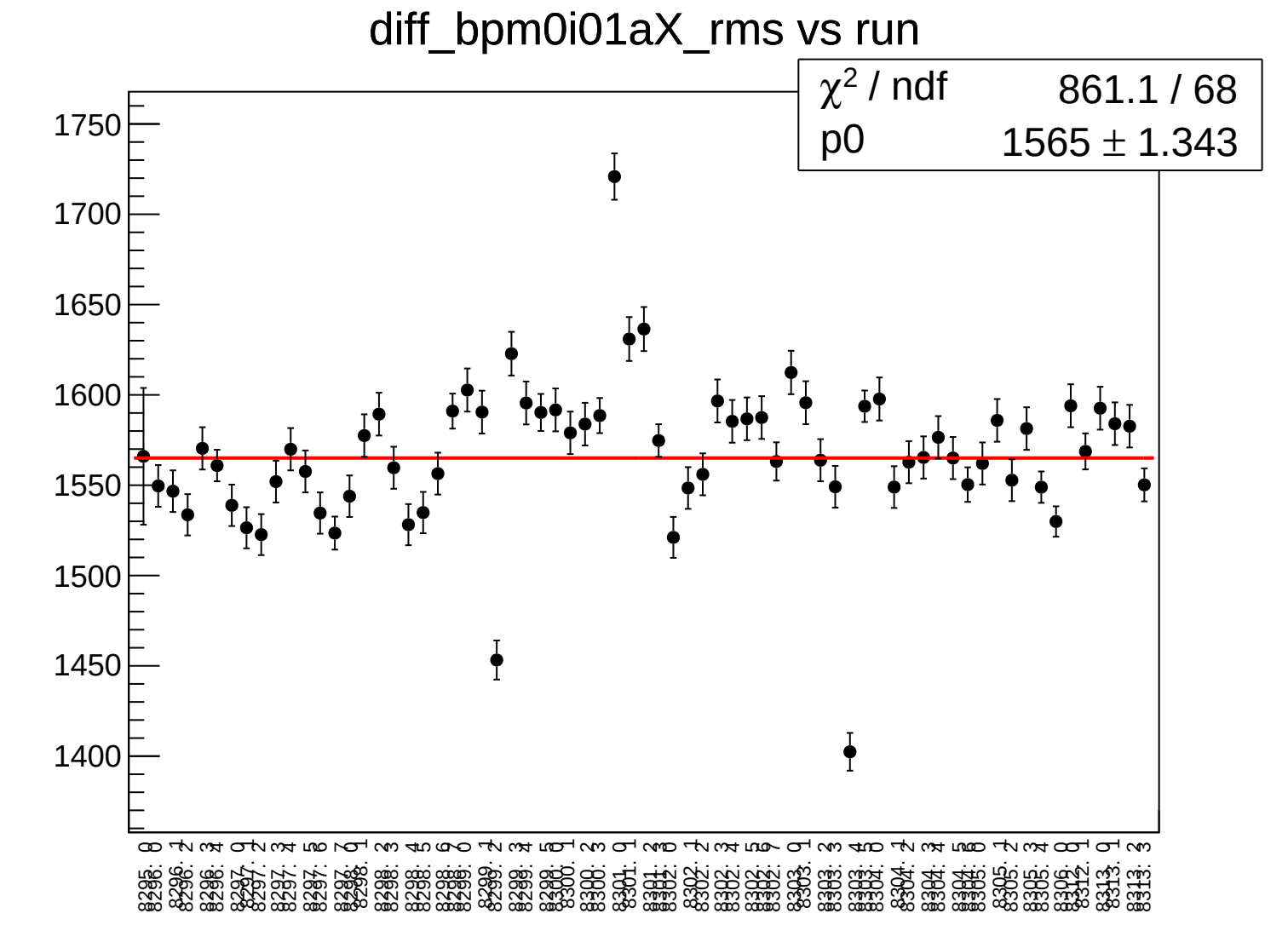

diff_bpm0i01X_rms vs run
χ^2 / ndf 893.8 / 68
p0 1775 ± 1.523
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

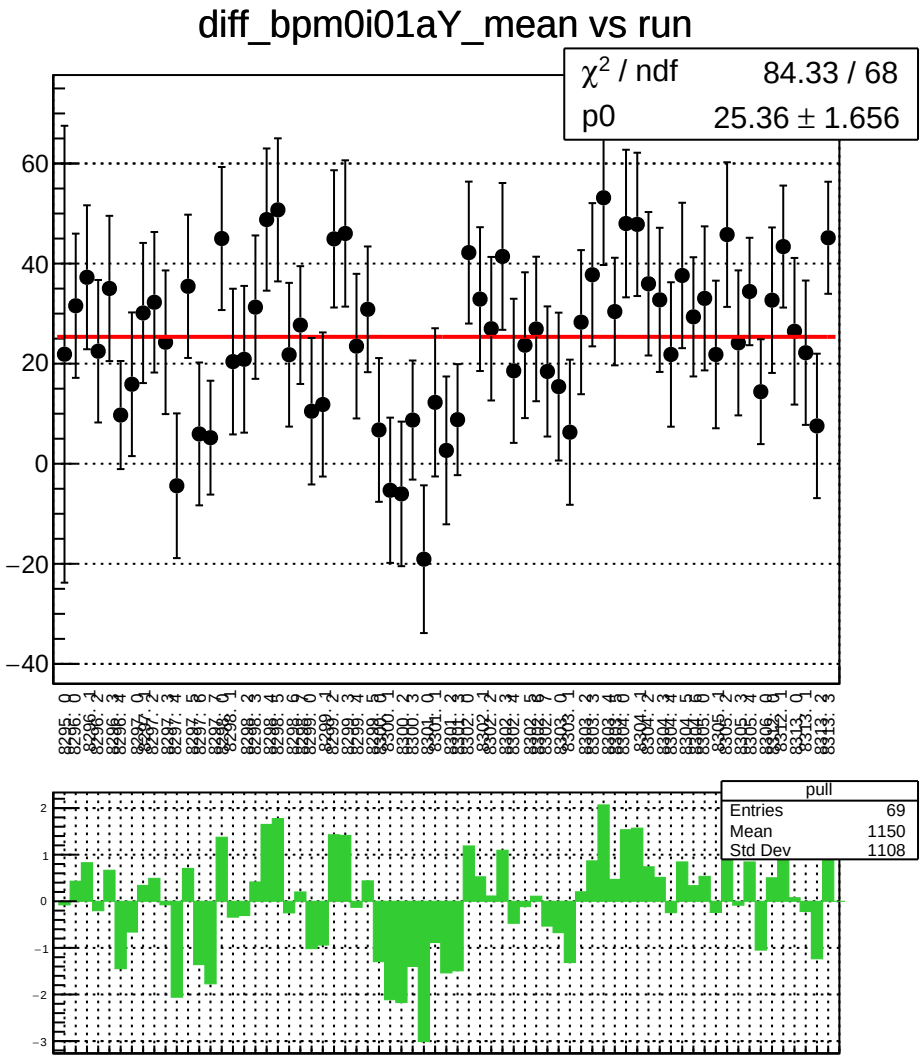

diff_bpm0i01Y_mean vs run
χ² / ndf 66.4 / 68
p0 14.83 ± 1.96
pull
Entries 69
Mean 392
Std Dev 329.4

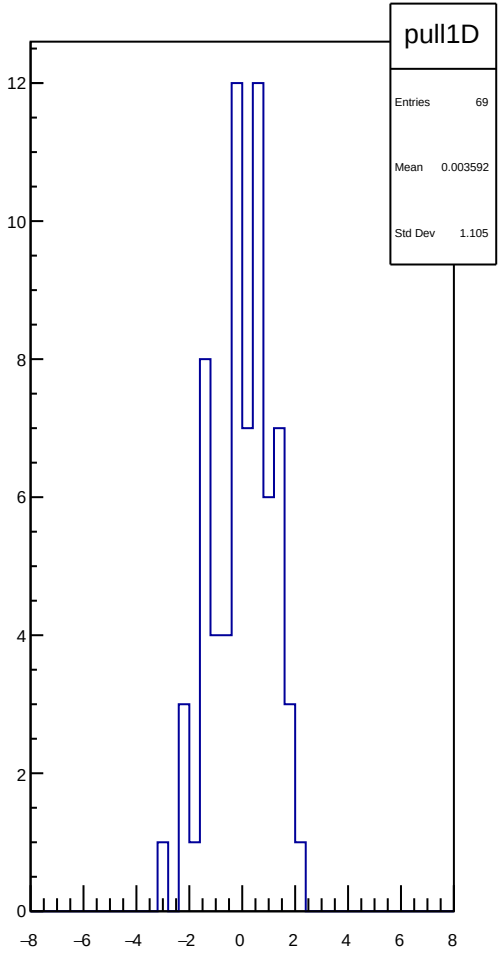

pull1D
Entries 69
Mean 0.003837
Std Dev 0.981

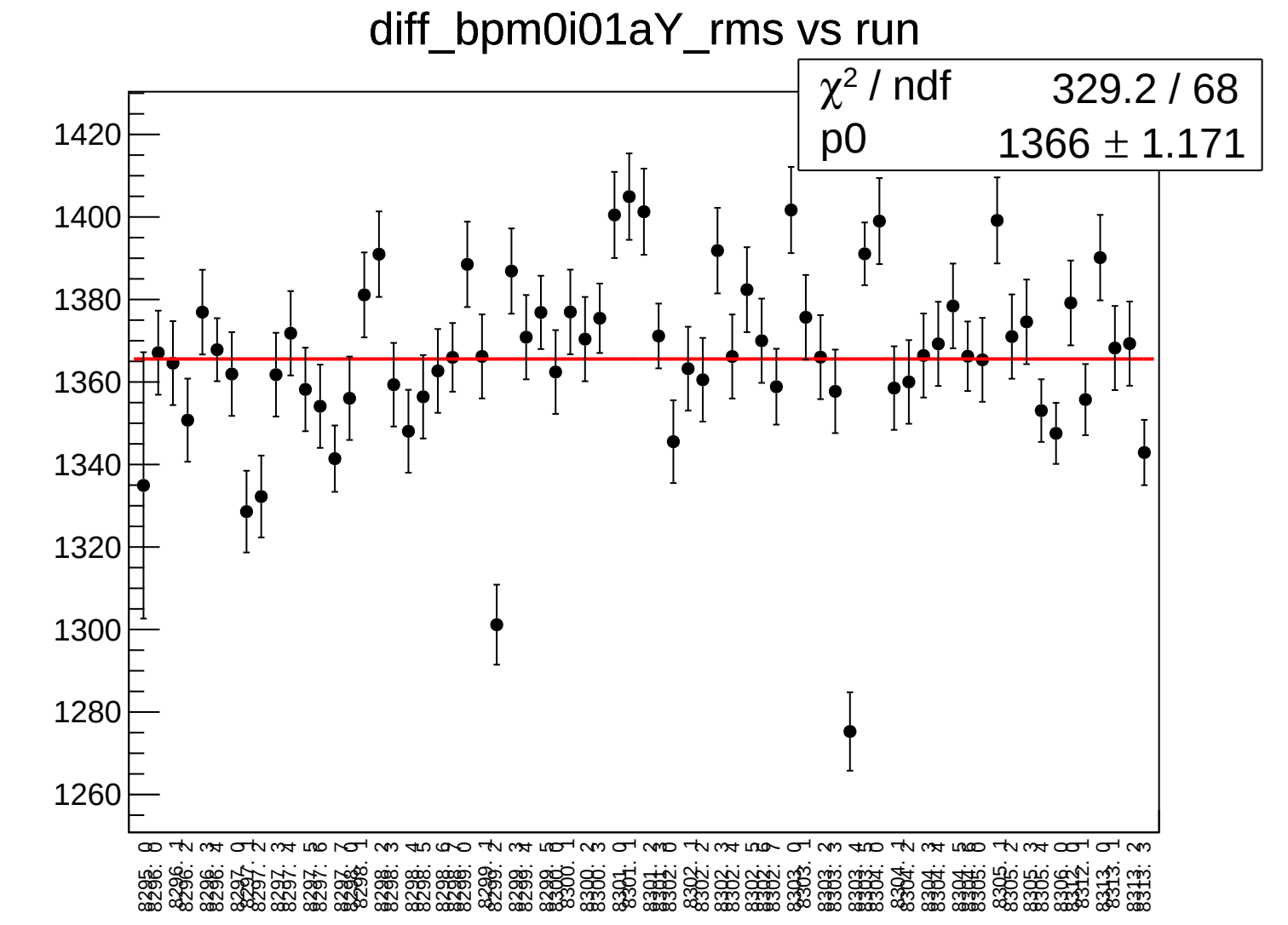

diff_bpm0i01Y_rms vs run
χ² / ndf 689.9 / 68
p0 1616 ± 1.386
1700
1650
1600
1550
1500
1450

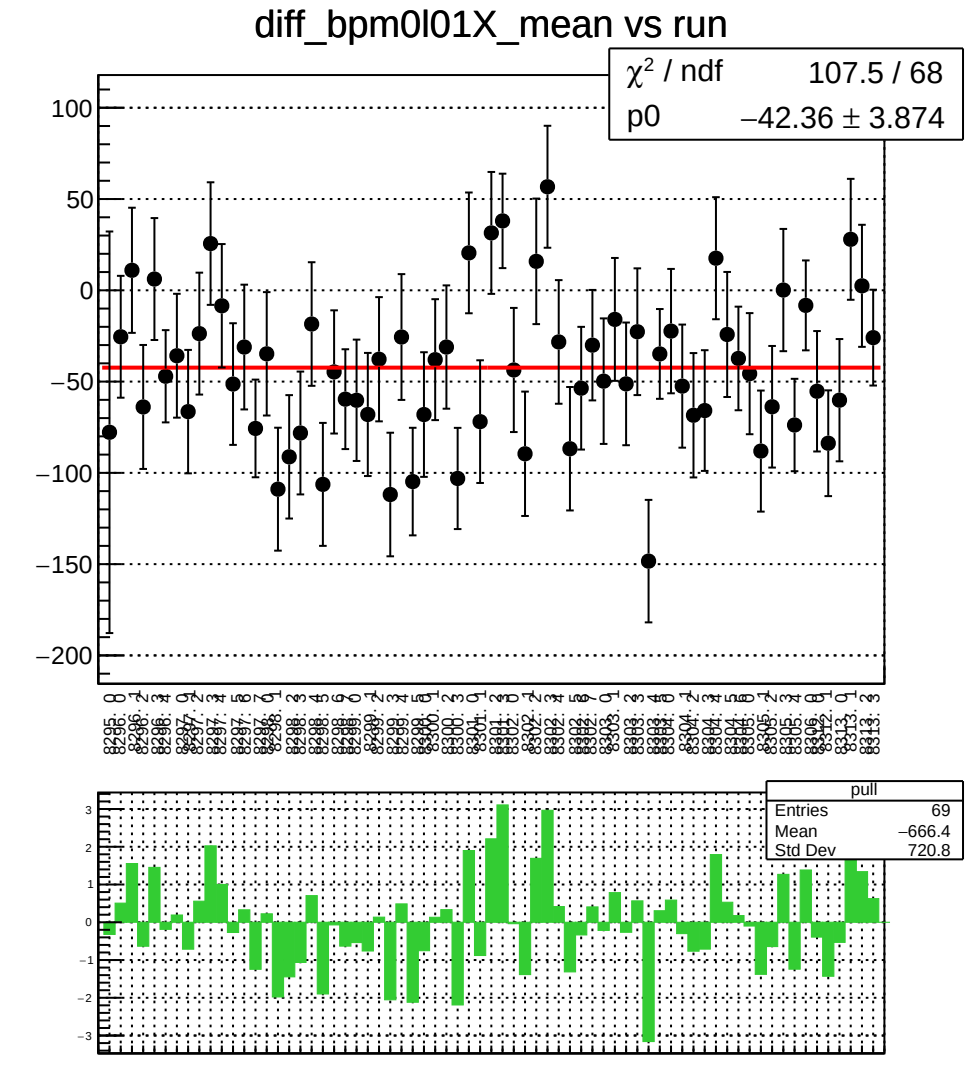

diff_bpm0i01aX_mean vs run
χ² / ndf 69.11 / 68
p0 44.58 ± 1.899
pull
Entries 69
Mean 189.8
Std Dev 173.3
pull1D
Entries 69
Mean −0.004643
Std Dev 1.001

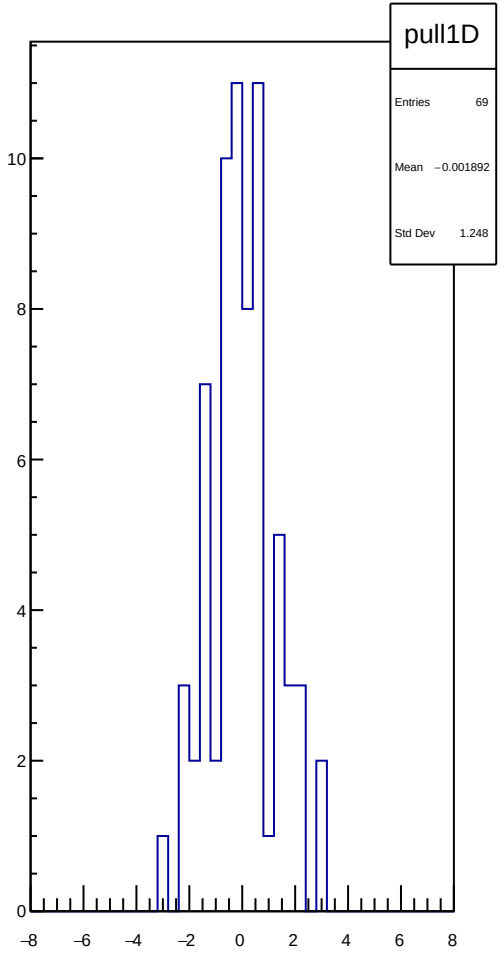

diff_bpm0i01aX_rms vs run
χ^2 / ndf 861.1 / 68
p0 1565 ± 1.343
1750
1700
1650
1600
1550
1500
1450
1400

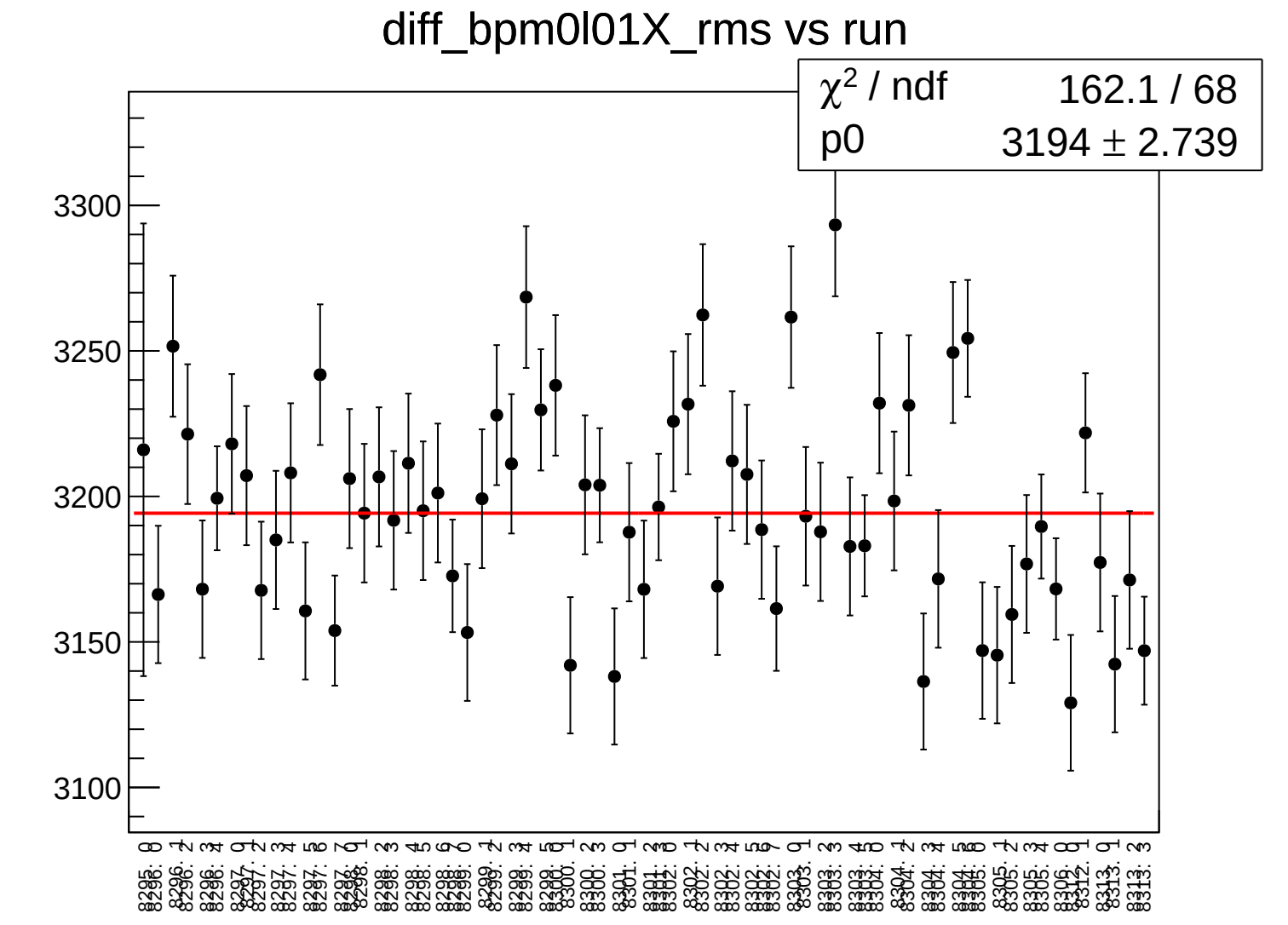

diff_bpm0i01aY_mean vs run
χ² / ndf 84.33 / 68
p0 25.36 ± 1.656
pull
Entries 69
Mean 1150
Std Dev 1108

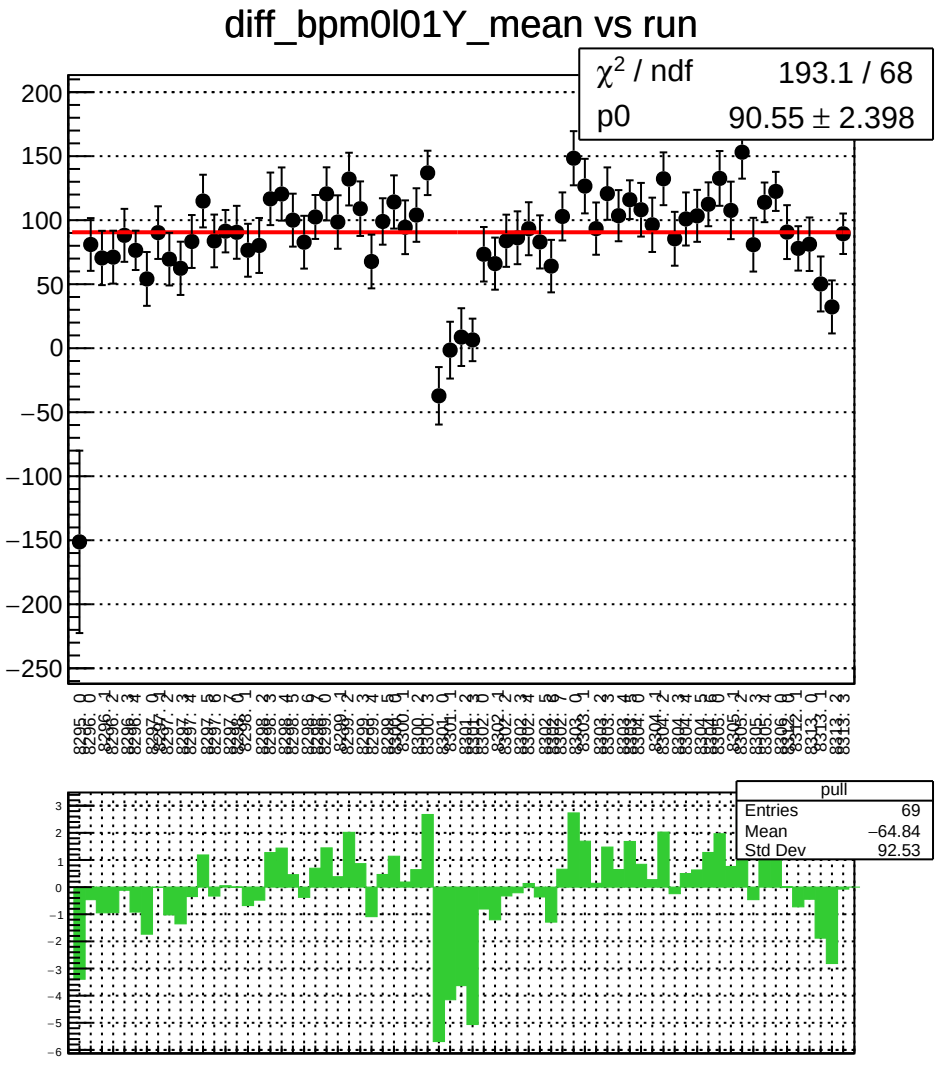

pull1D
Entries 69
Mean 0.003592
Std Dev 1.105

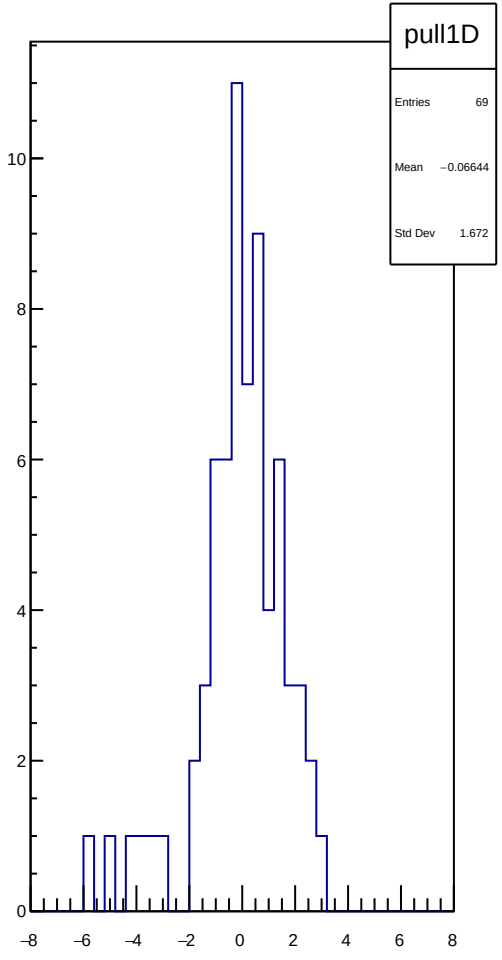

diff_bpm0i01aY_rms vs run
χ² / ndf 329.2 / 68
p0 1366 ± 1.171
1420
1400
1380
1360
1340
1320
1300
1280
1260

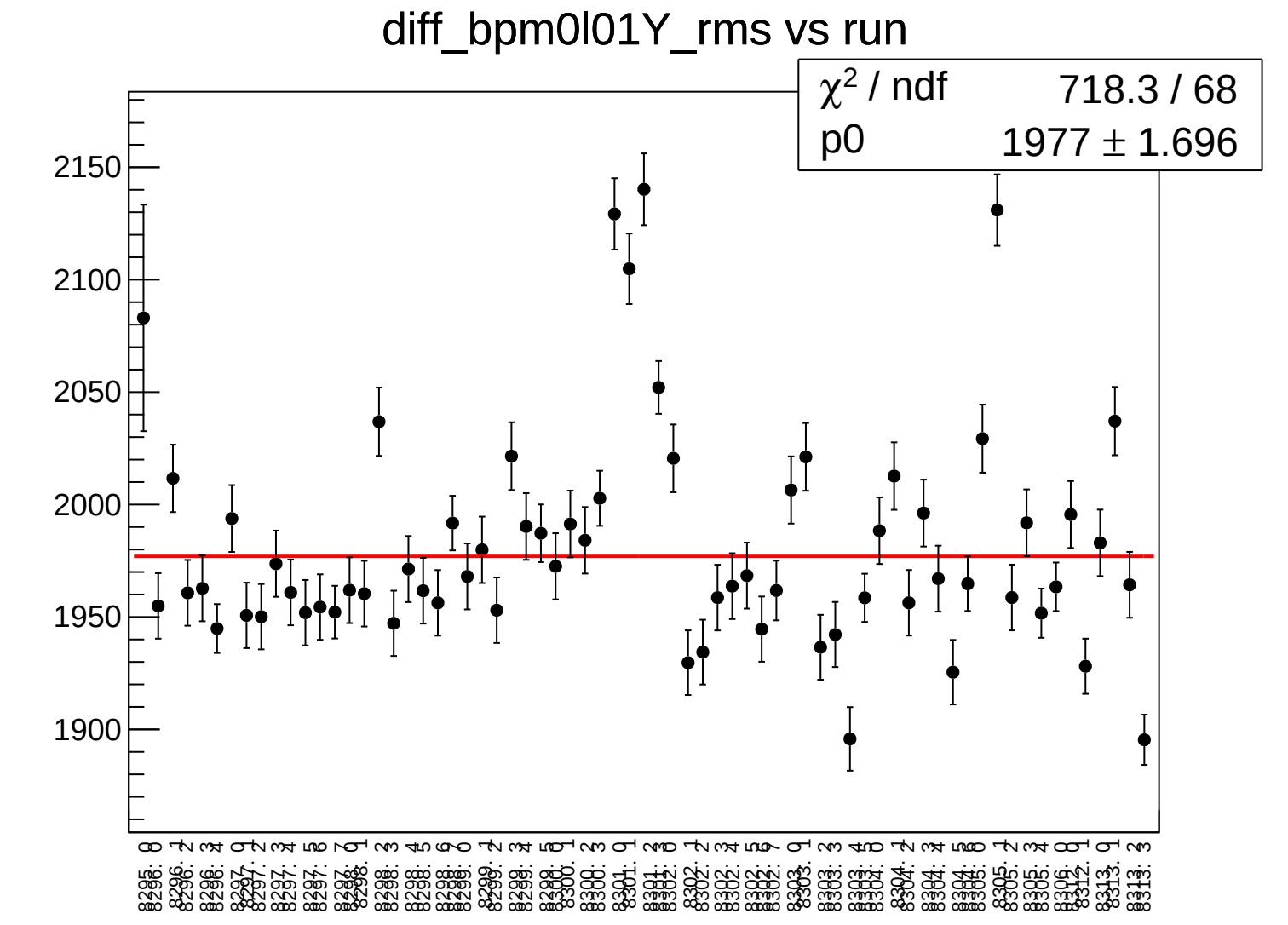

diff_bpm0l01X_mean vs run
χ² / ndf 107.5 / 68
p0 −42.36 ± 3.874
pull
Entries 69
Mean −666.4
Std Dev 720.8

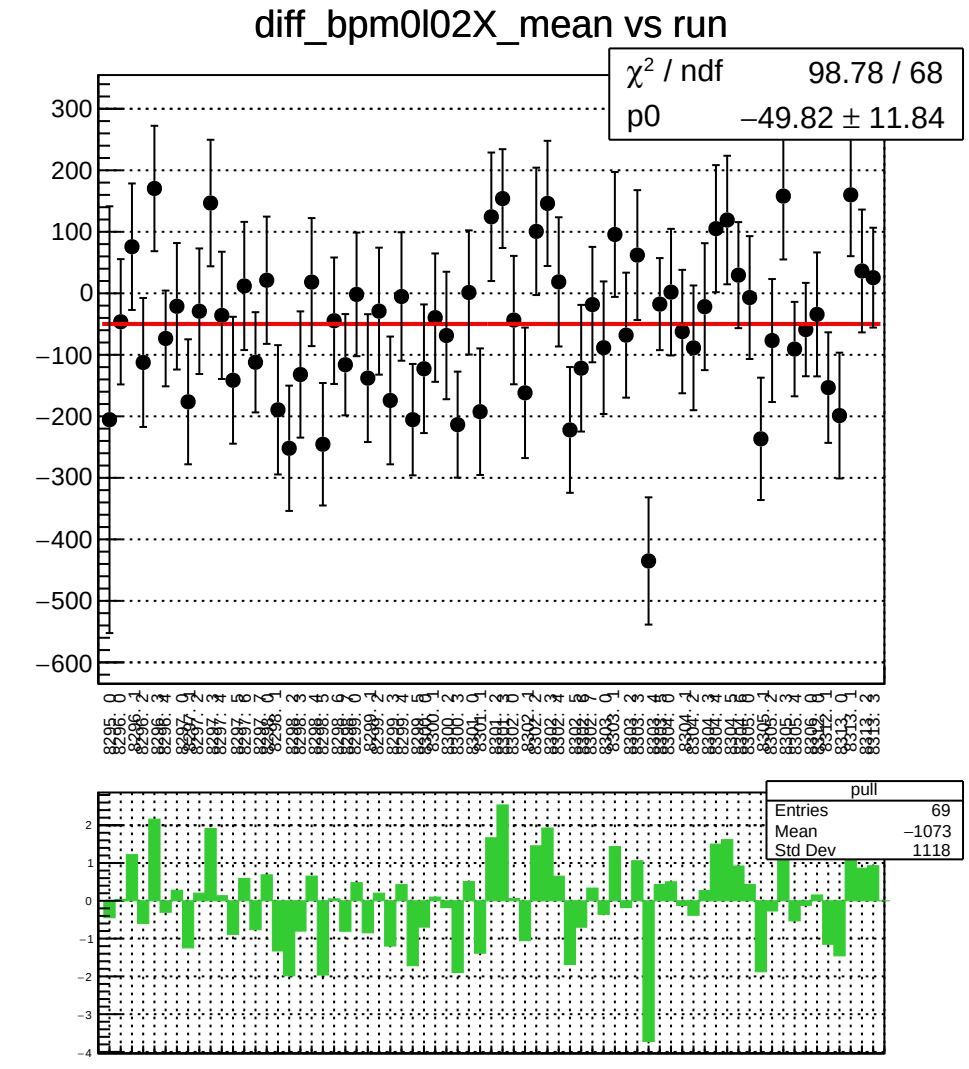

pull1D
Entries 69
Mean −0.001892
Std Dev 1.248

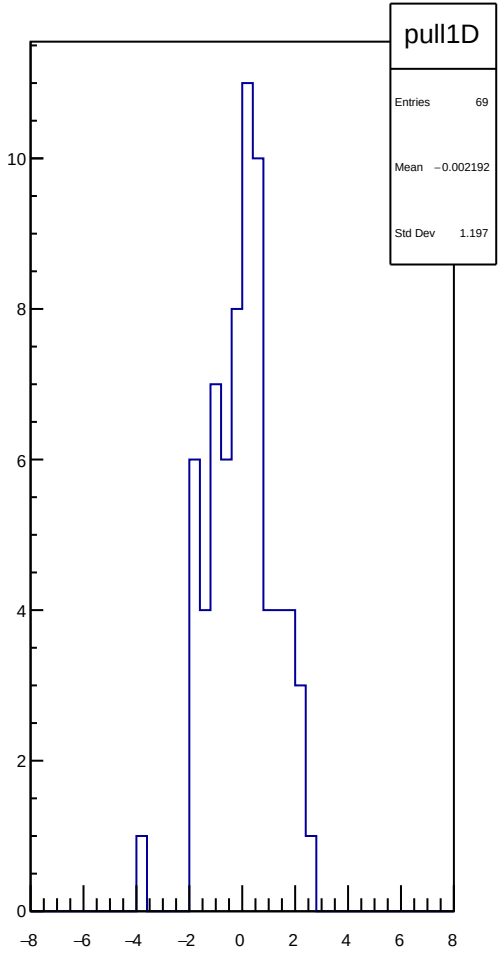

diff_bpm0l01X_rms vs run
χ² / ndf 162.1 / 68
p0 3194 ± 2.739
3300
3250
3200
3150
3100

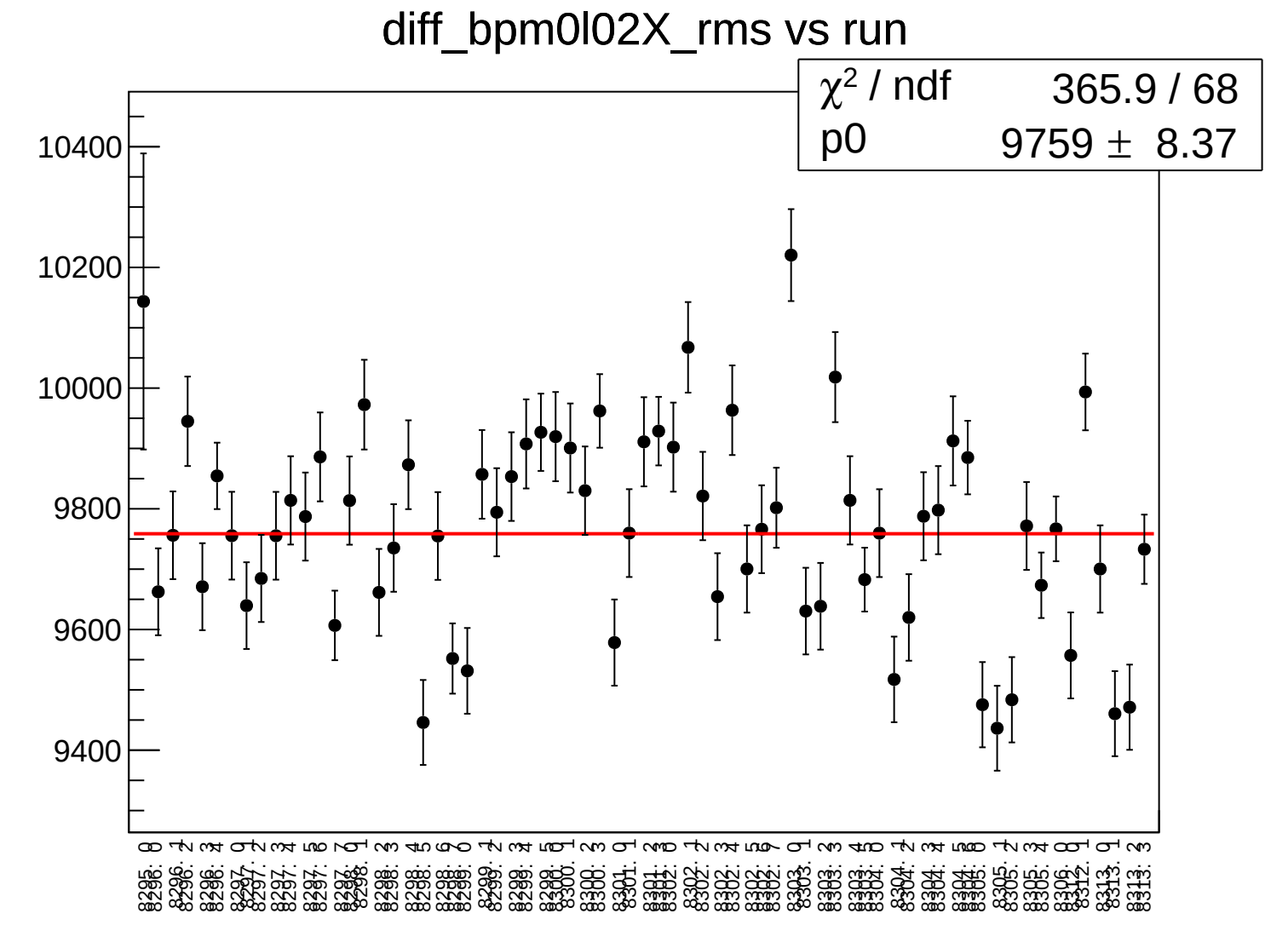

diff_bpm0l01Y_mean vs run
χ² / ndf 193.1 / 68
p0 90.55 ± 2.398
pull
Entries 69
Mean −64.84
Std Dev 92.53

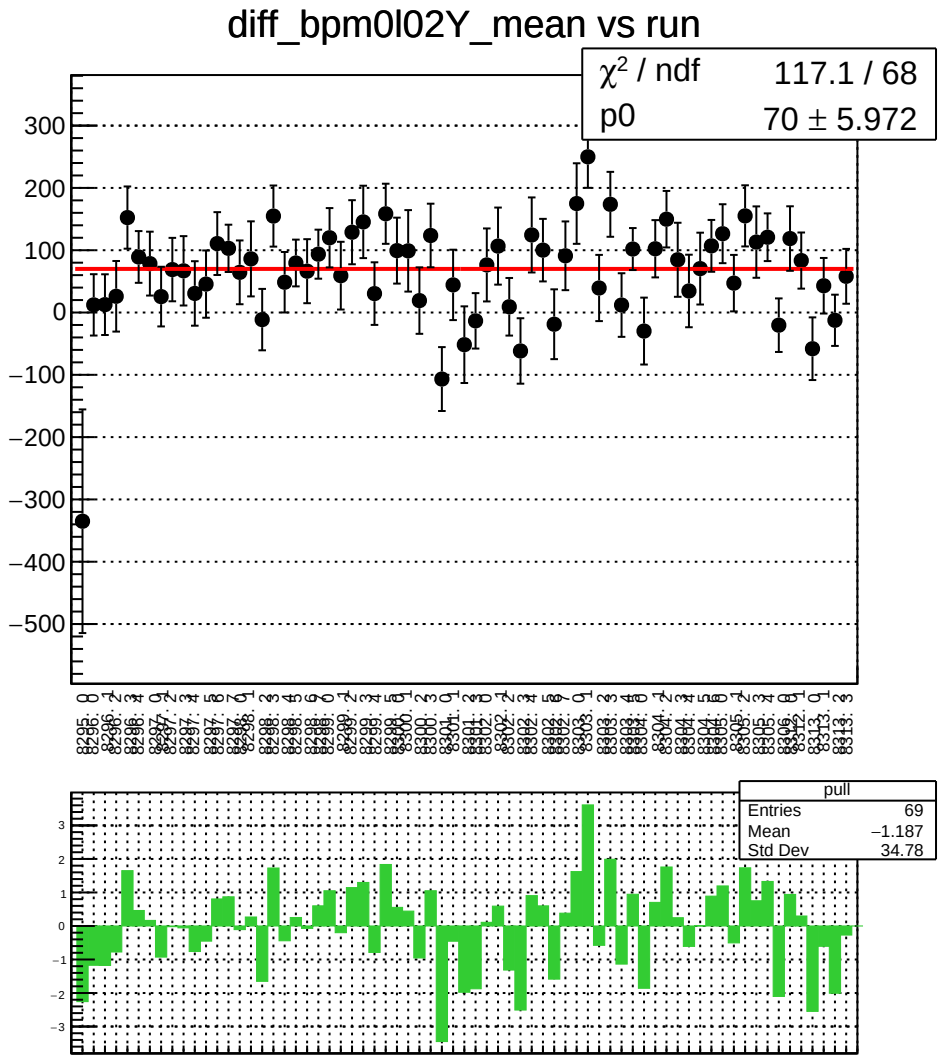

pull1D
Entries 69
Mean −0.06644
Std Dev 1.672

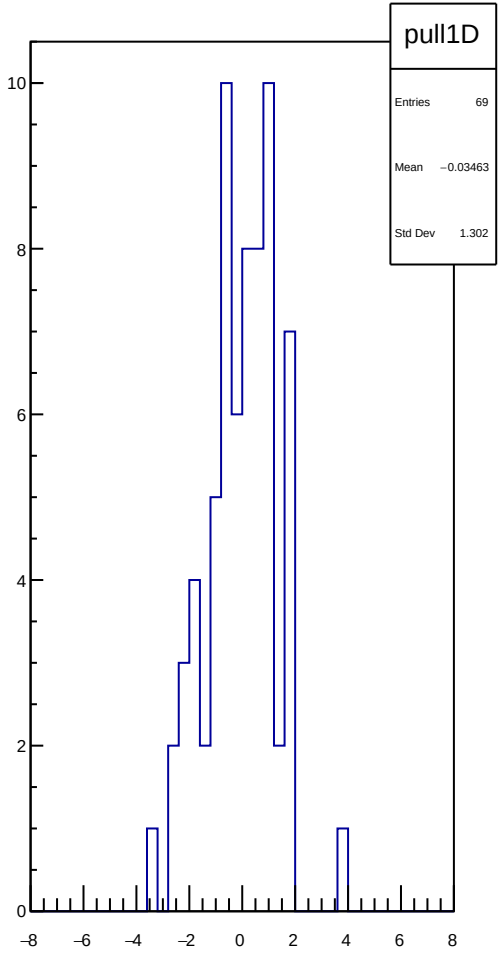

diff_bpm0l01Y_rms vs run
χ² / ndf 718.3 / 68
p0 1977 ± 1.696
2150
2100
2050
2000
1950
1900

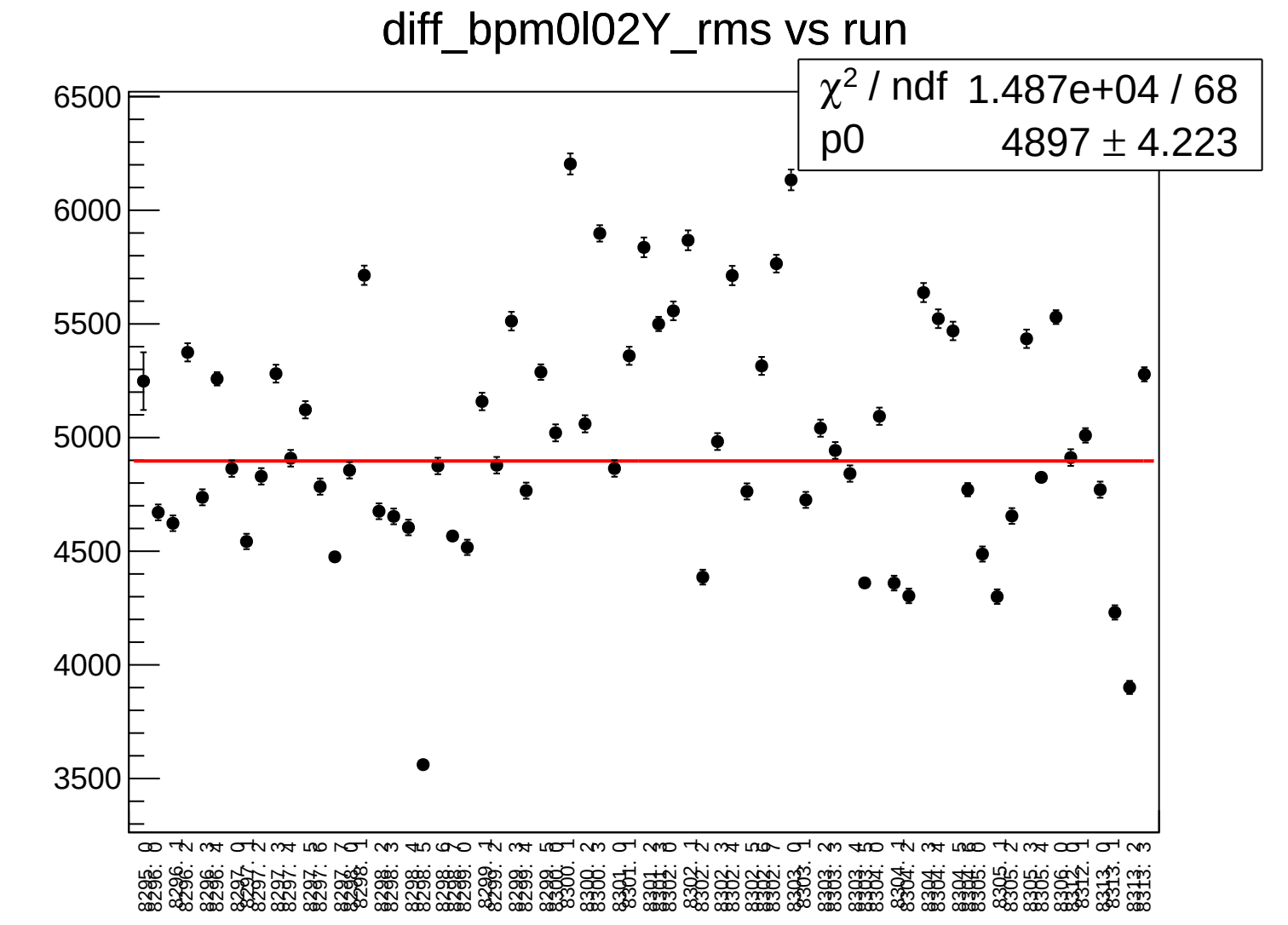

diff_bpm0l02X_mean vs run
χ² / ndf 98.78 / 68
p0 −49.82 ± 11.84
pull
Entries 69
Mean −1073
Std Dev 1118

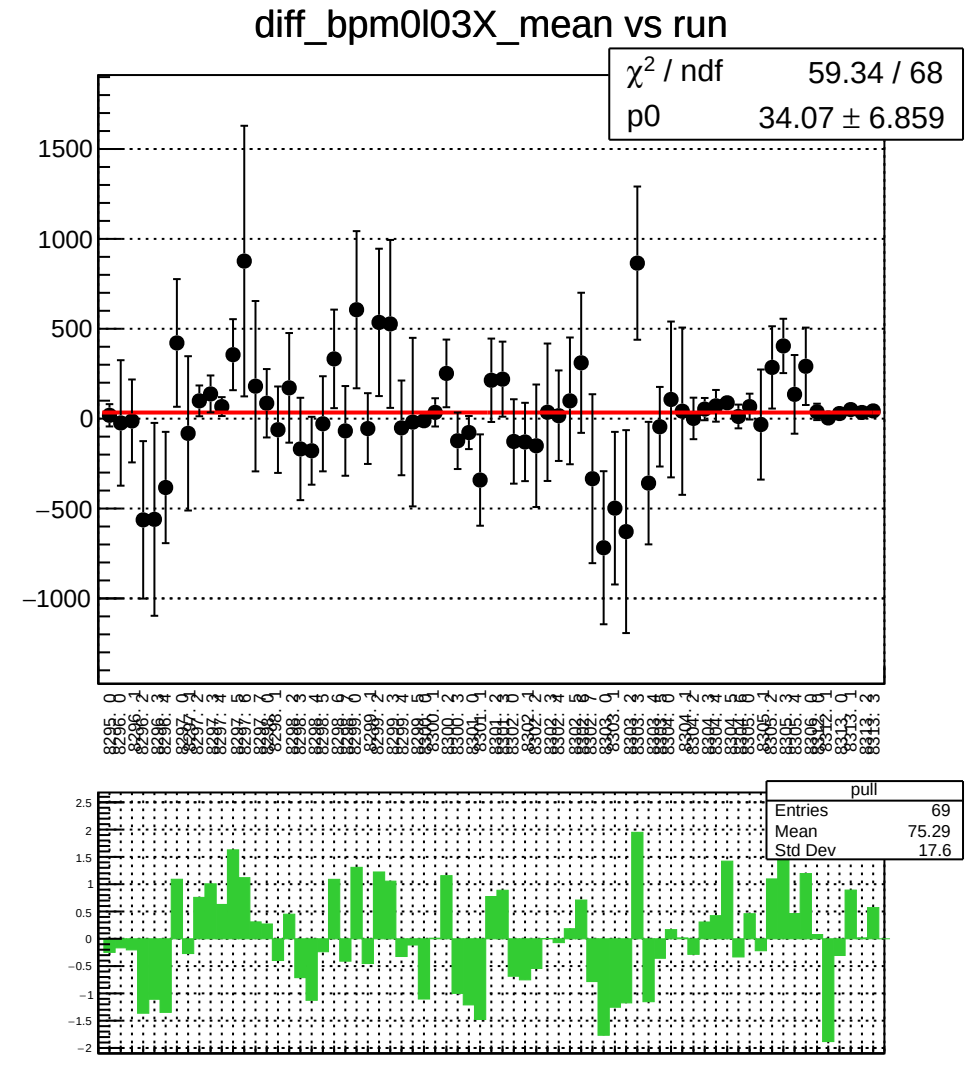

pull1D
Entries 69
Mean −0.002192
Std Dev 1.197

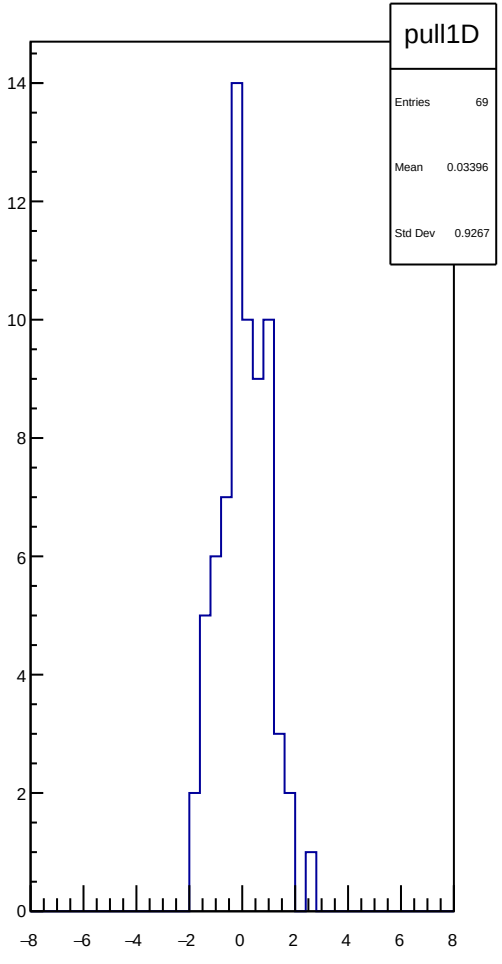

diff_bpm0l02X_rms vs run
χ² / ndf 365.9 / 68
p0 9759 ± 8.37
10400
10200
10000
9800
9600
9400

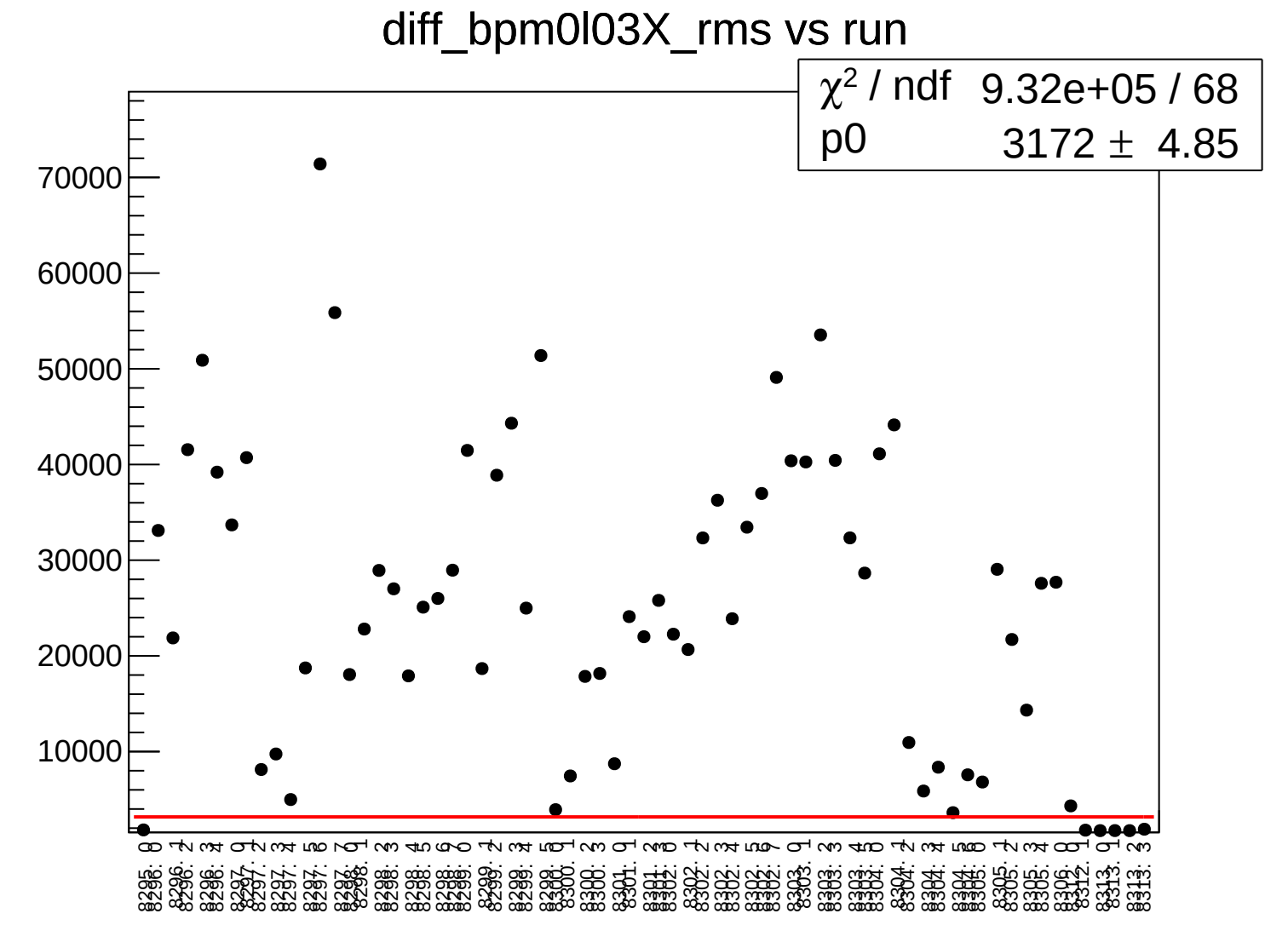

diff_bpm0l02Y_mean vs run
χ² / ndf 117.1 / 68
p0 70 ± 5.972
pull
Entries 69
Mean −1.187
Std Dev 34.78

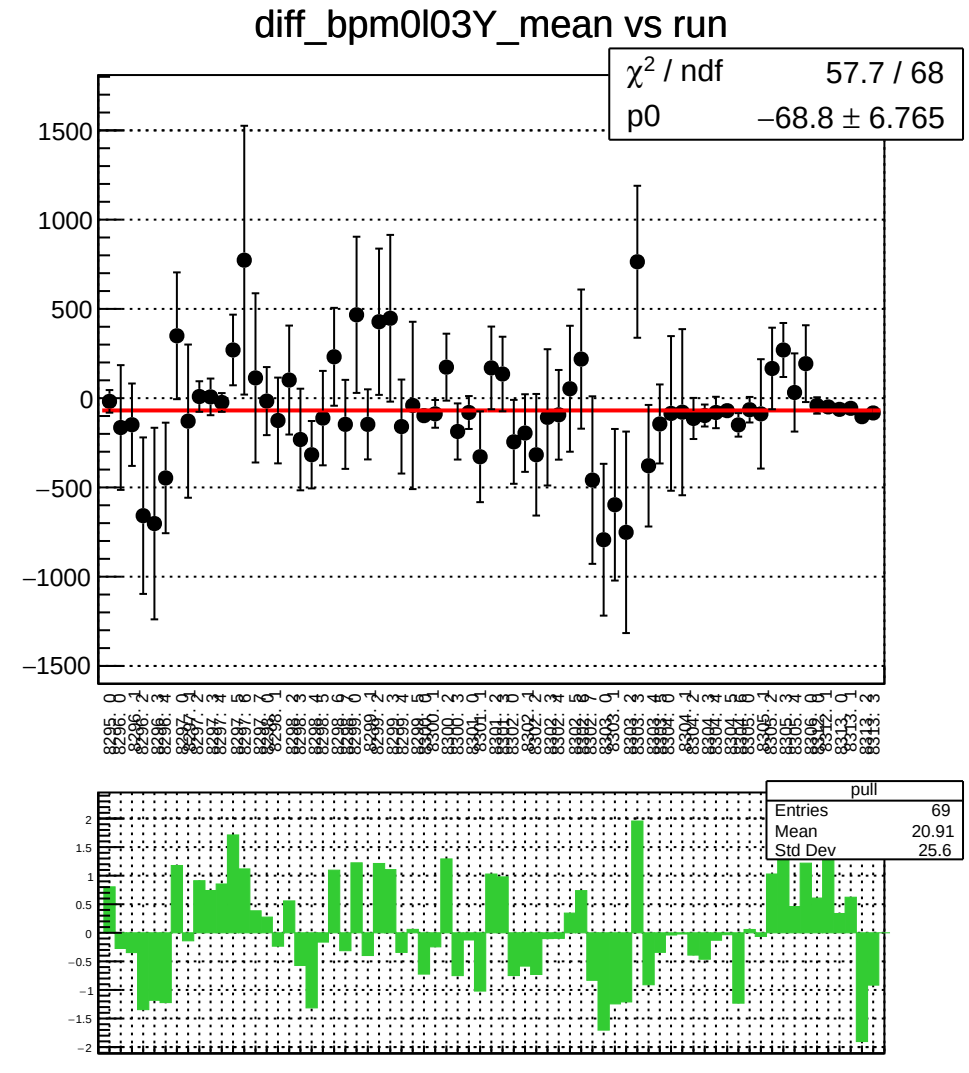

pull1D
Entries 69
Mean −0.03463
Std Dev 1.302

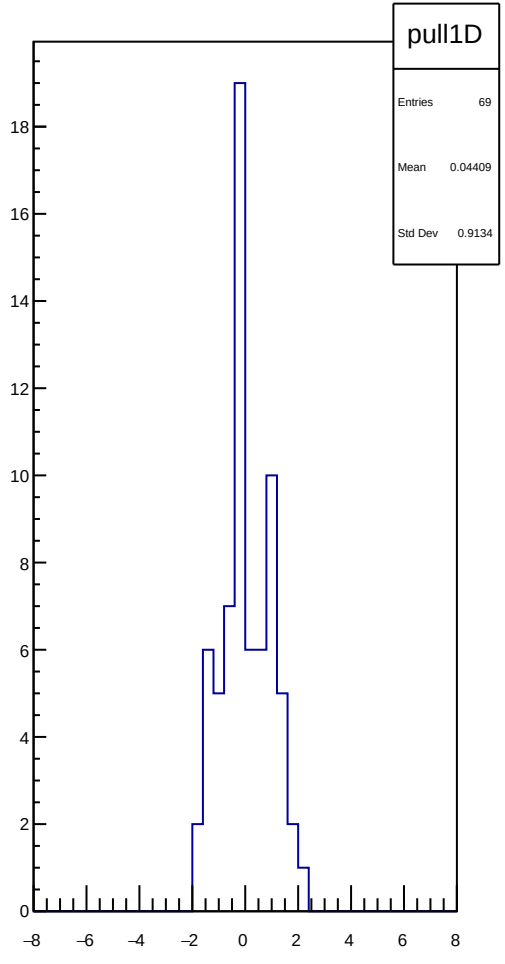

diff_bpm0l02Y_rms vs run
χ² / ndf 1.487e+04 / 68
p0 4897 ± 4.223
6500
6000
5500
5000
4500
4000
3500

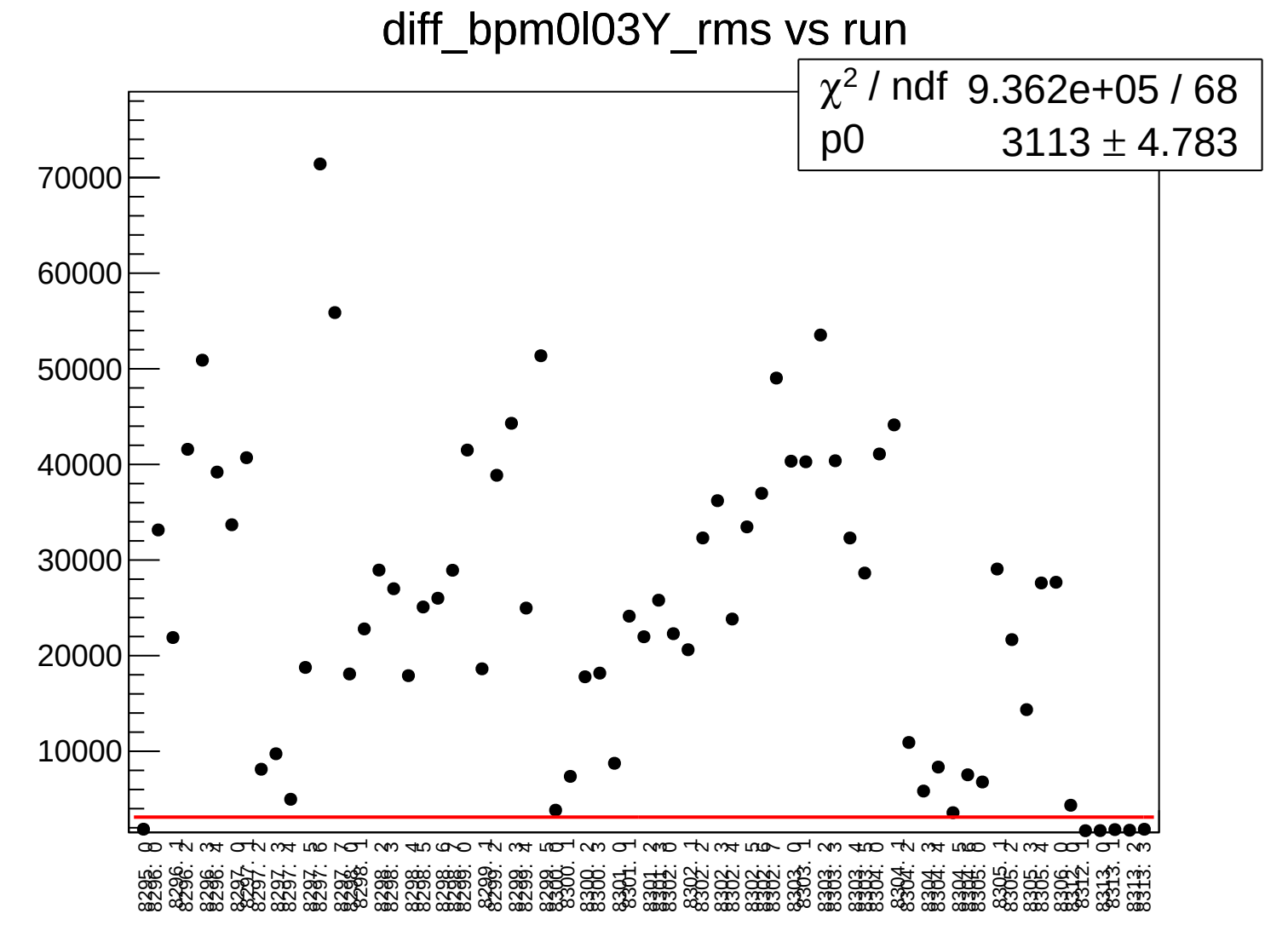

diff_bpm0l03X_mean vs run
χ^2 / ndf 59.34 / 68
p0 34.07 ± 6.859
pull
Entries 69
Mean 75.29
Std Dev 17.6

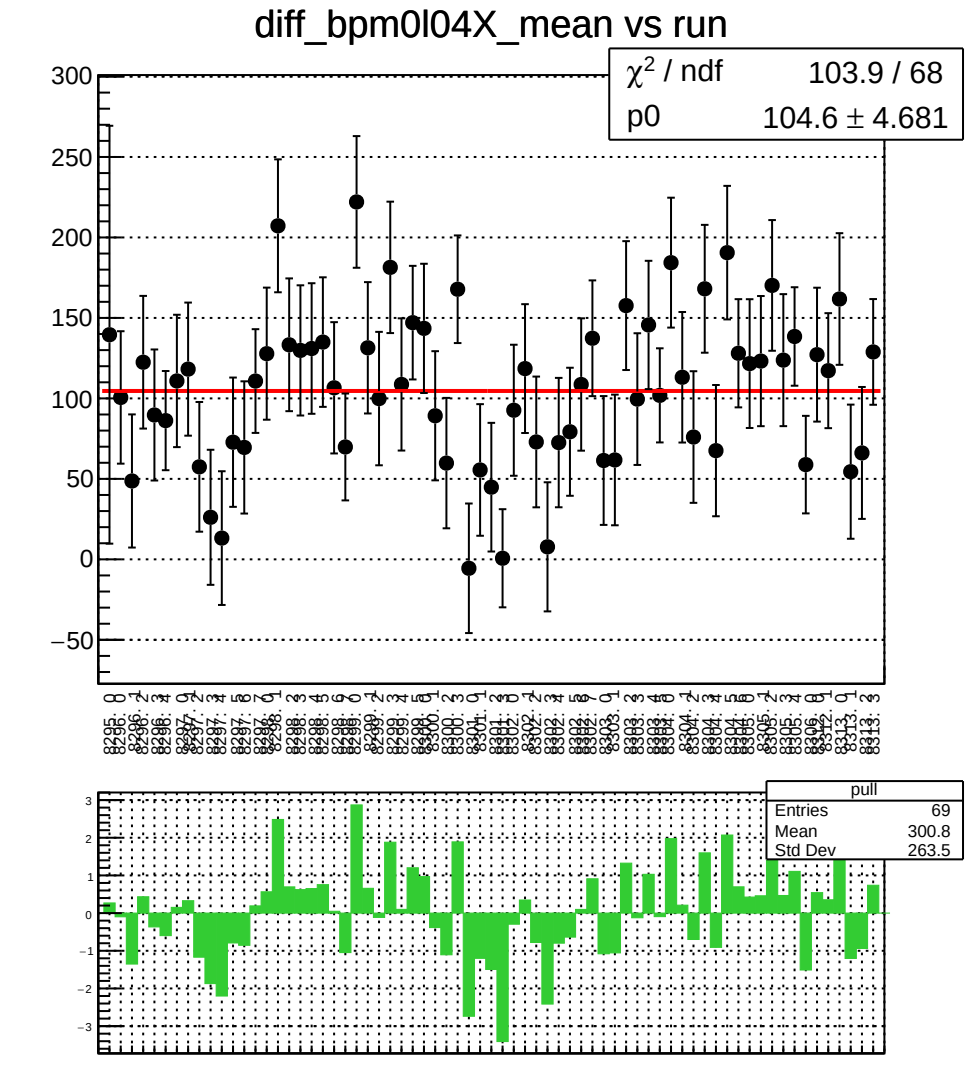

pull1D
Entries 69
Mean 0.03396
Std Dev 0.9267

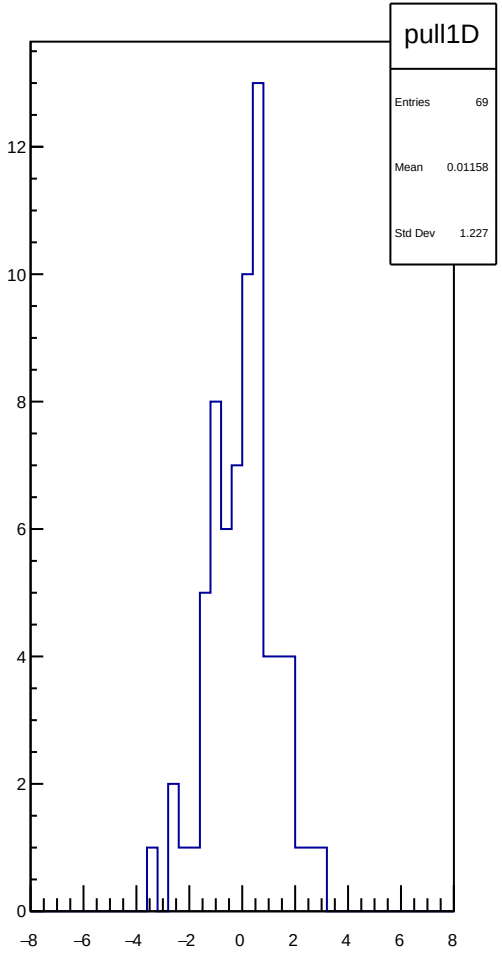

diff_bpm0l03X_rms vs run
χ^2 / ndf 9.32e+05 / 68
p0 3172 ± 4.85
70000
60000
50000
40000
30000
20000
10000

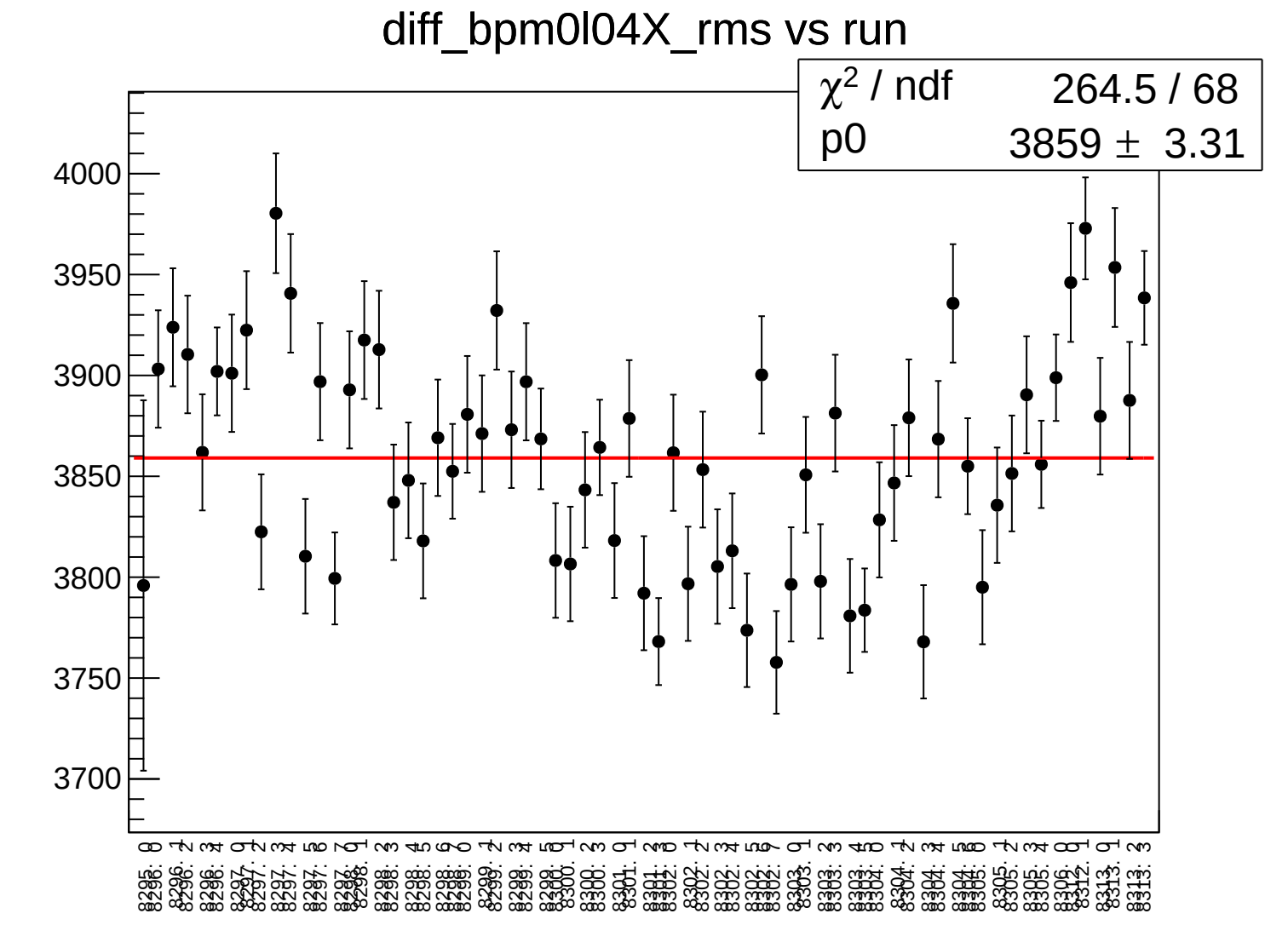

diff_bpm0l03Y_mean vs run
χ² / ndf 57.7 / 68
p0 −68.8 ± 6.765
pull
Entries 69
Mean 20.91
Std Dev 25.6

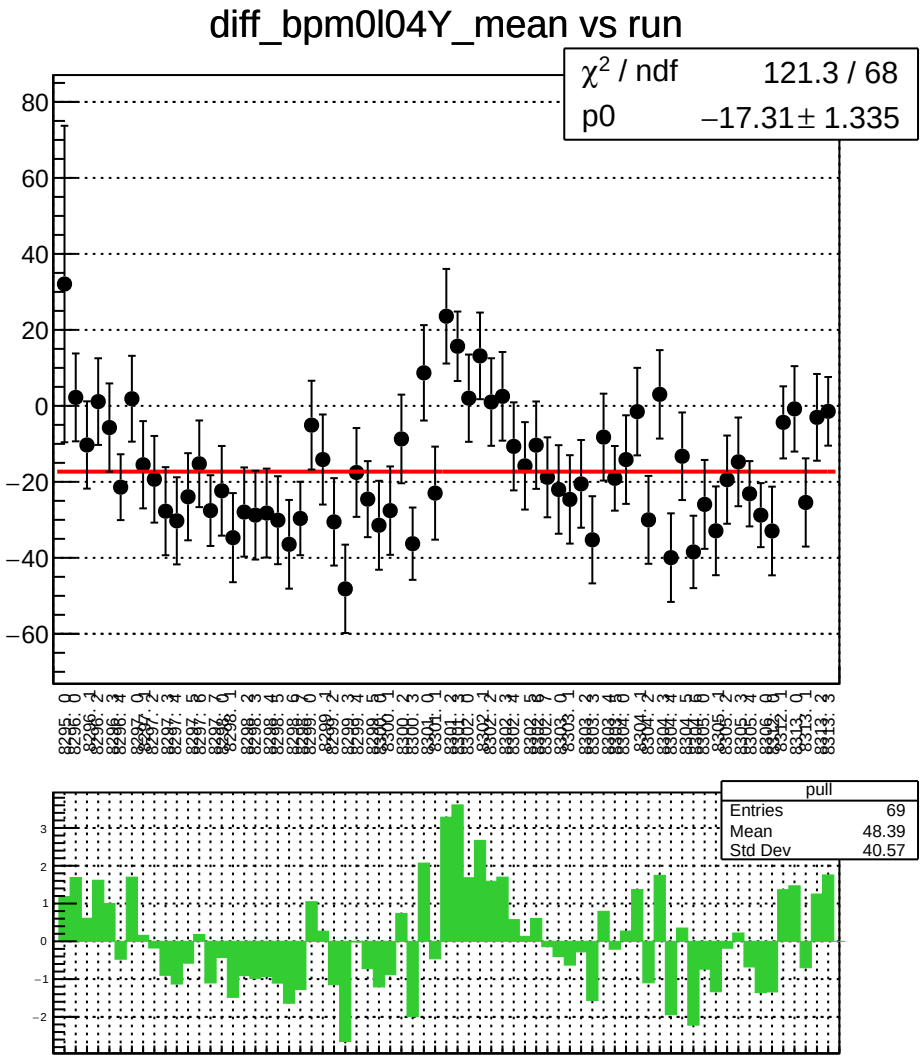

pull1D
Entries 69
Mean 0.04409
Std Dev 0.9134

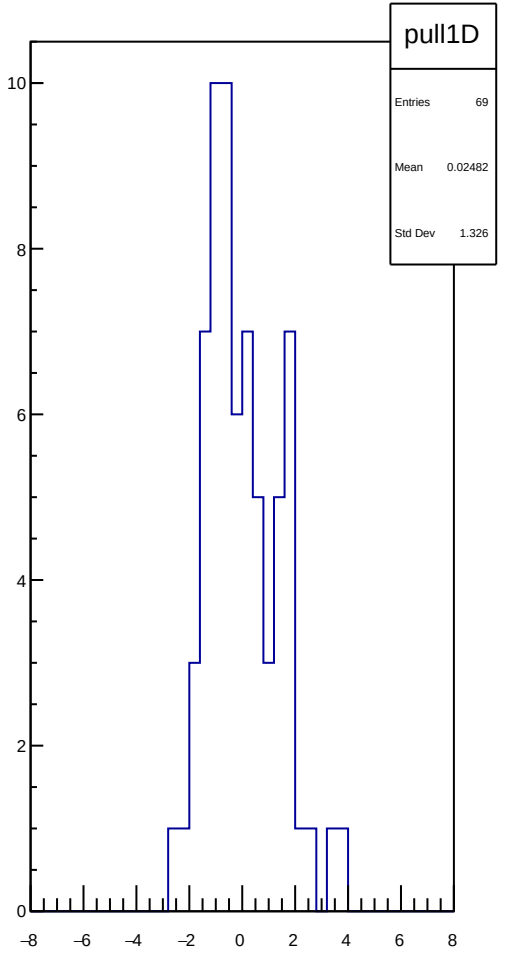

diff_bpm0l03Y_rms vs run
χ^2 / ndf 9.362e+05 / 68
p0 3113 ± 4.783
70000
60000
50000
40000
30000
20000
10000

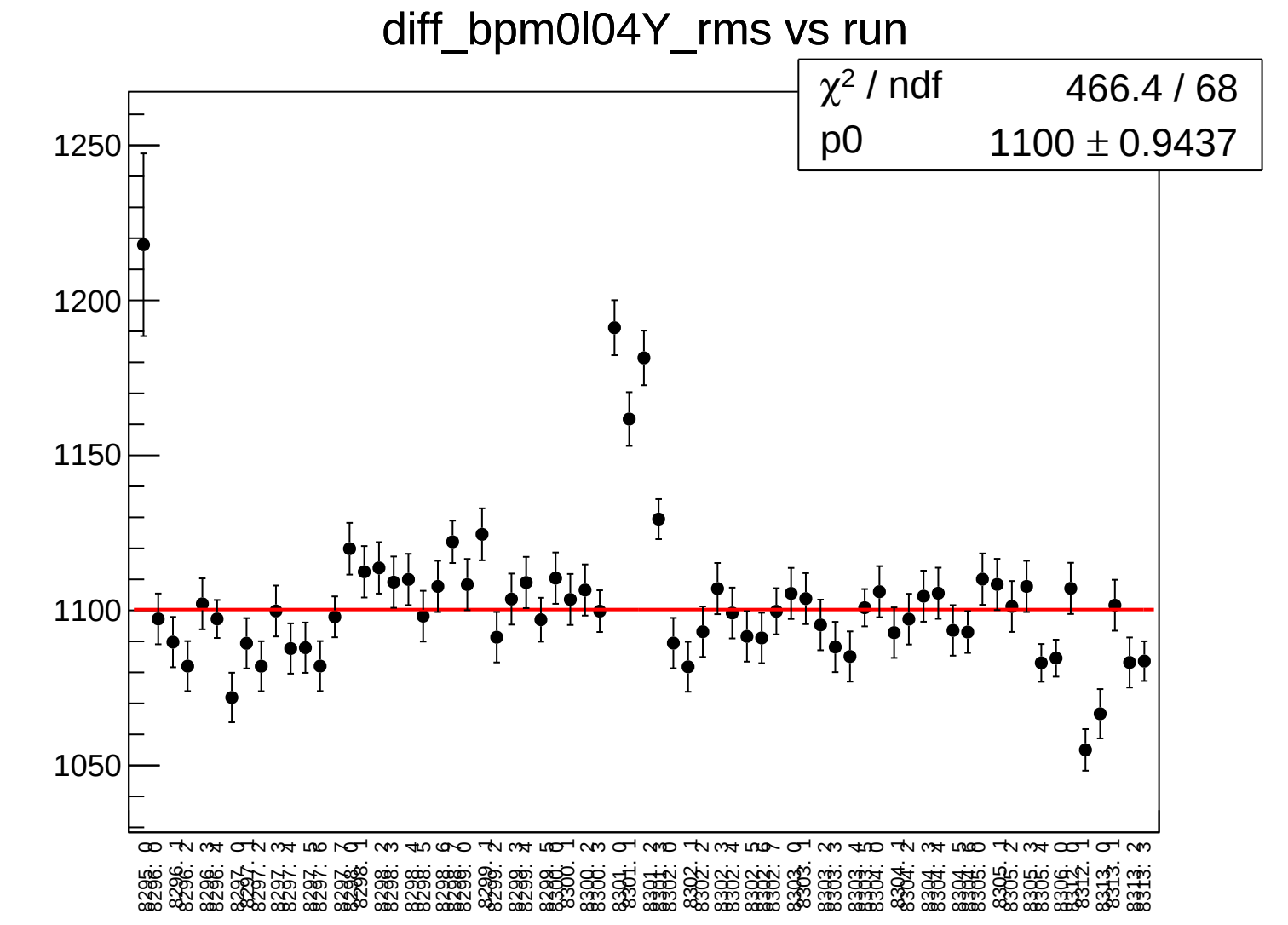

diff_bpm0l04X_mean vs run
χ² / ndf 103.9 / 68
p0 104.6 ± 4.681
pull
Entries 69
Mean 300.8
Std Dev 263.5

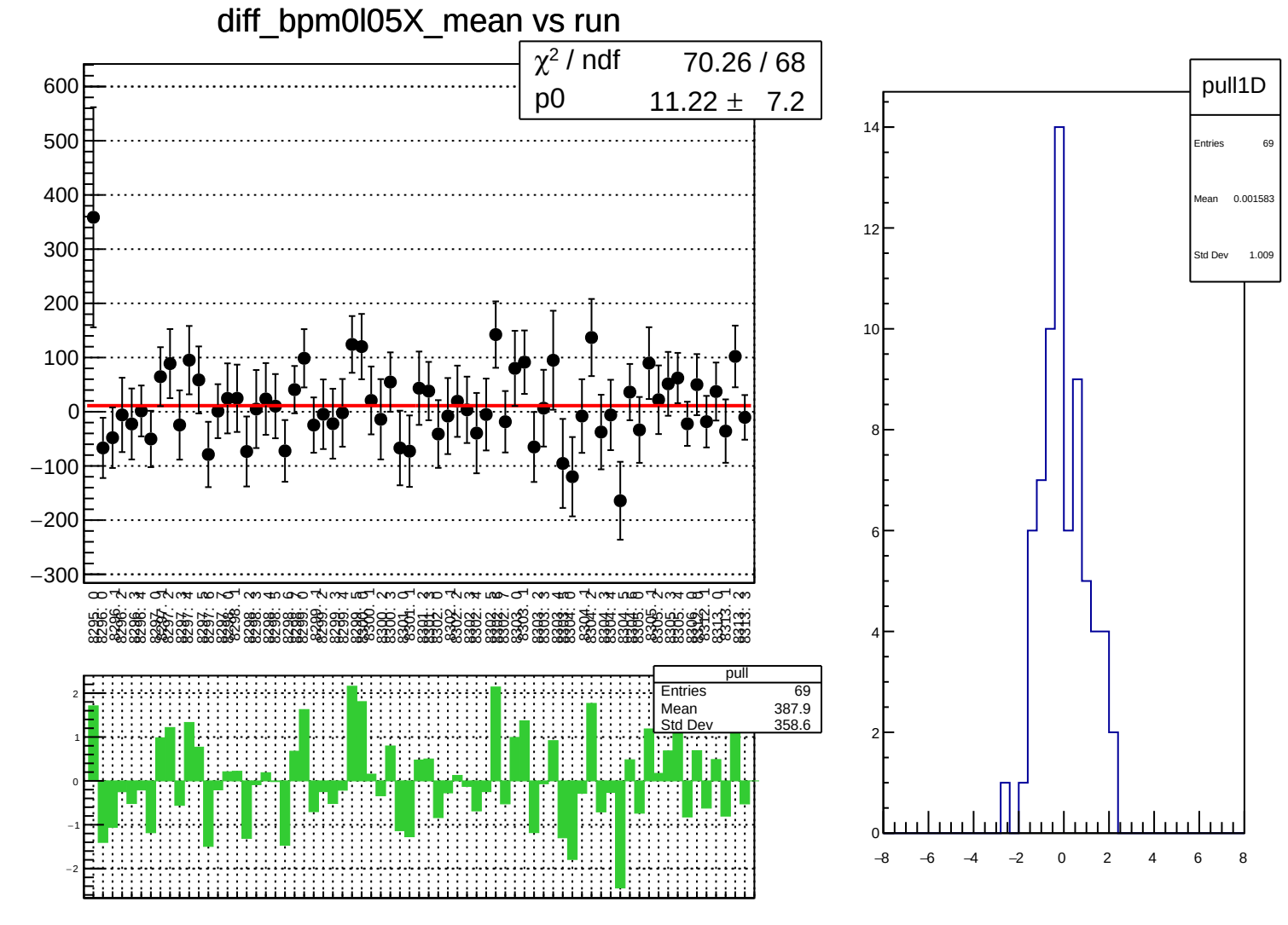

pull1D
Entries 69
Mean 0.01158
Std Dev 1.227

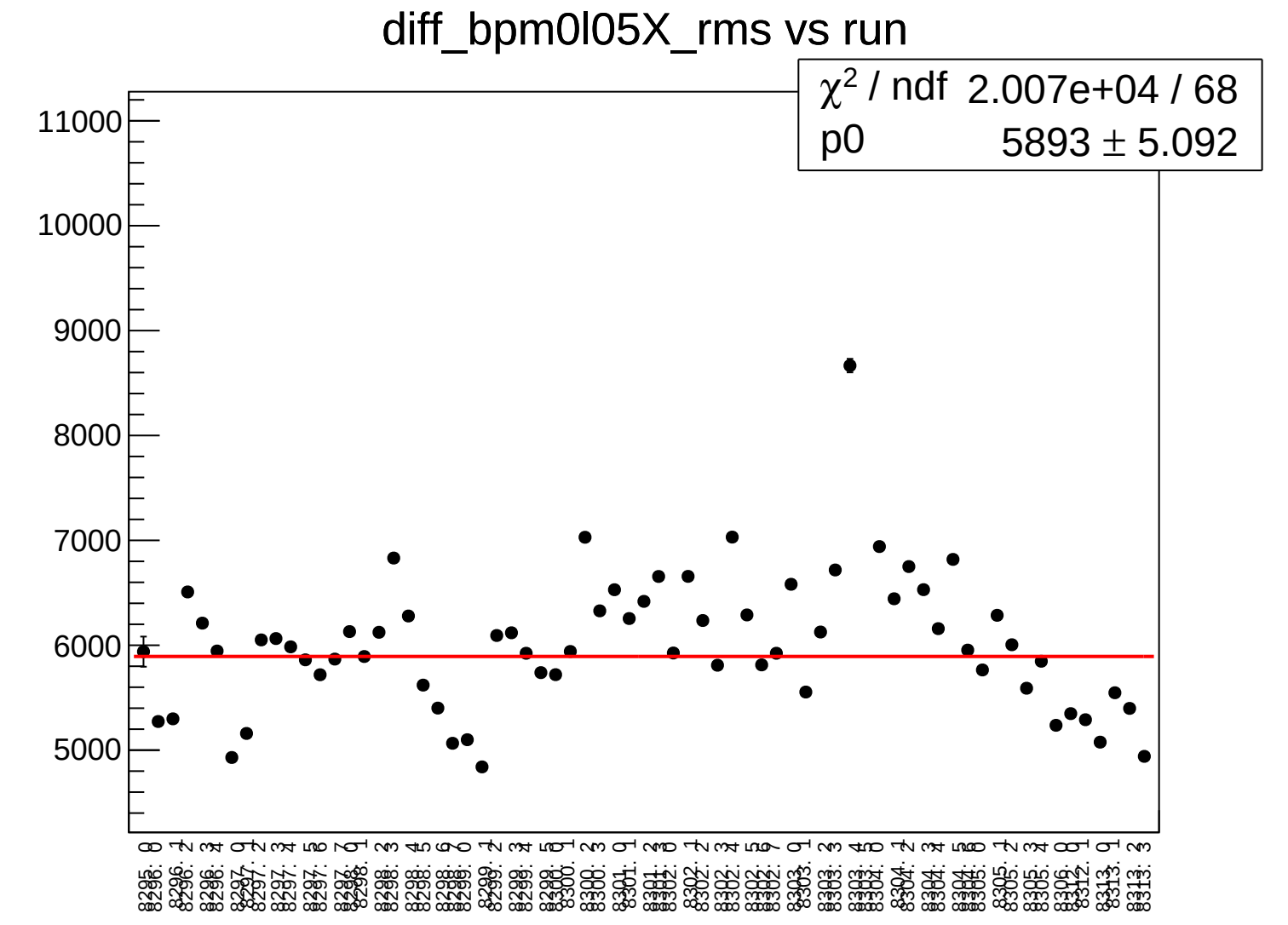

diff_bpm0l04X_rms vs run
χ² / ndf 264.5 / 68
p0 3859 ± 3.31
4000
3950
3900
3850
3800
3750
3700

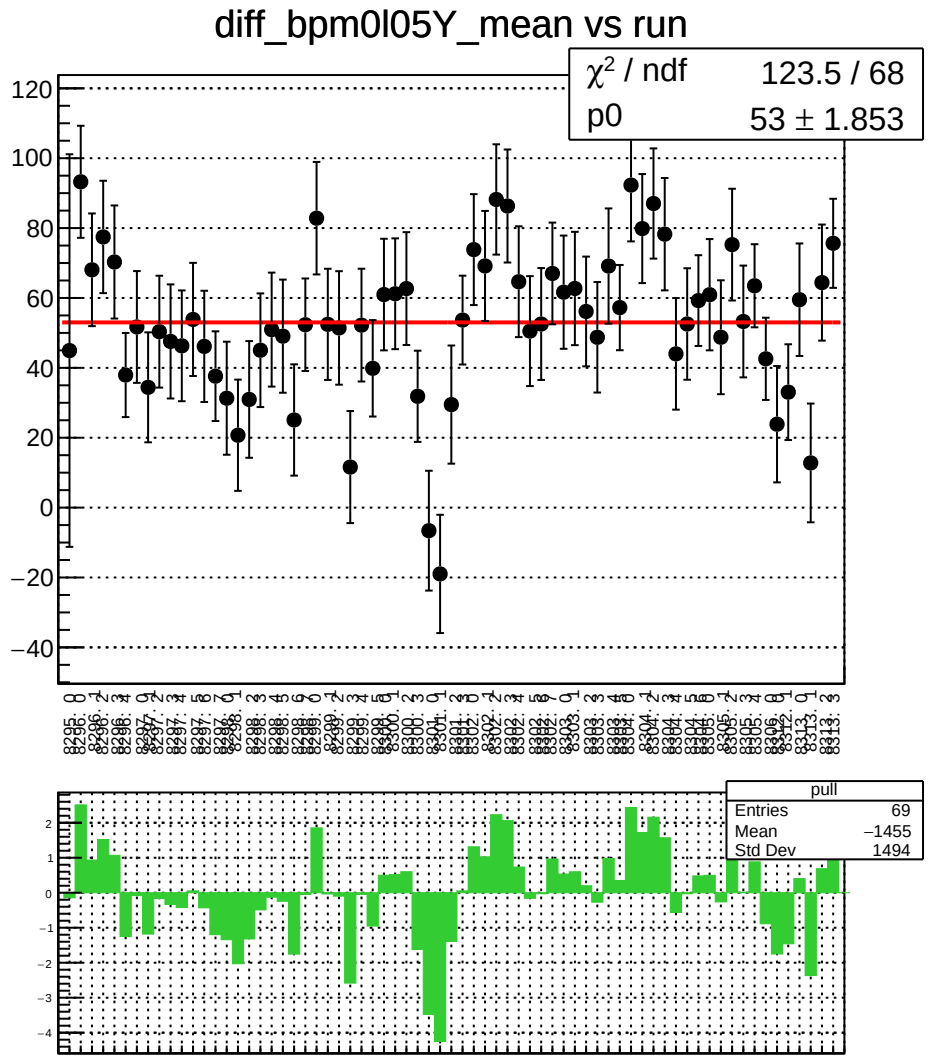

diff_bpm0l04Y_mean vs run
χ² / ndf 121.3 / 68
p0 −17.31 ± 1.335
pull
Entries 69
Mean 48.39
Std Dev 40.57

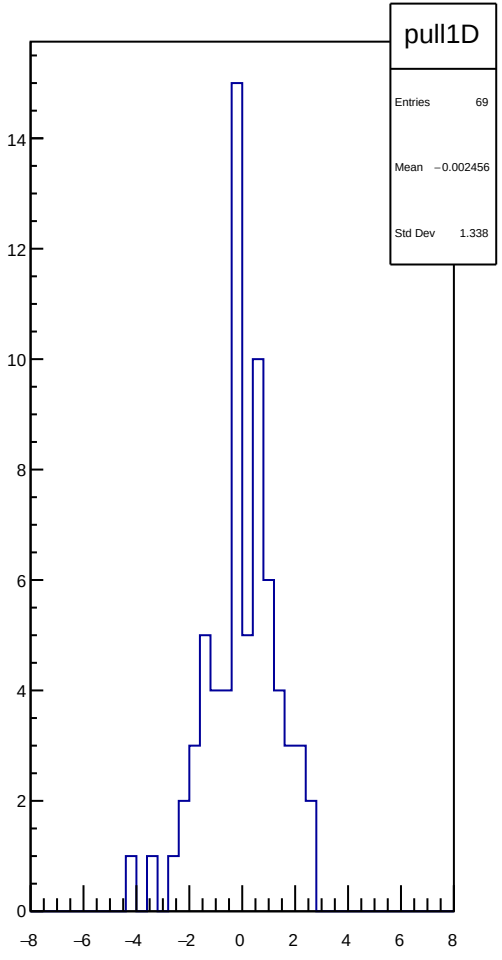

pull1D
Entries 69
Mean 0.02482
Std Dev 1.326

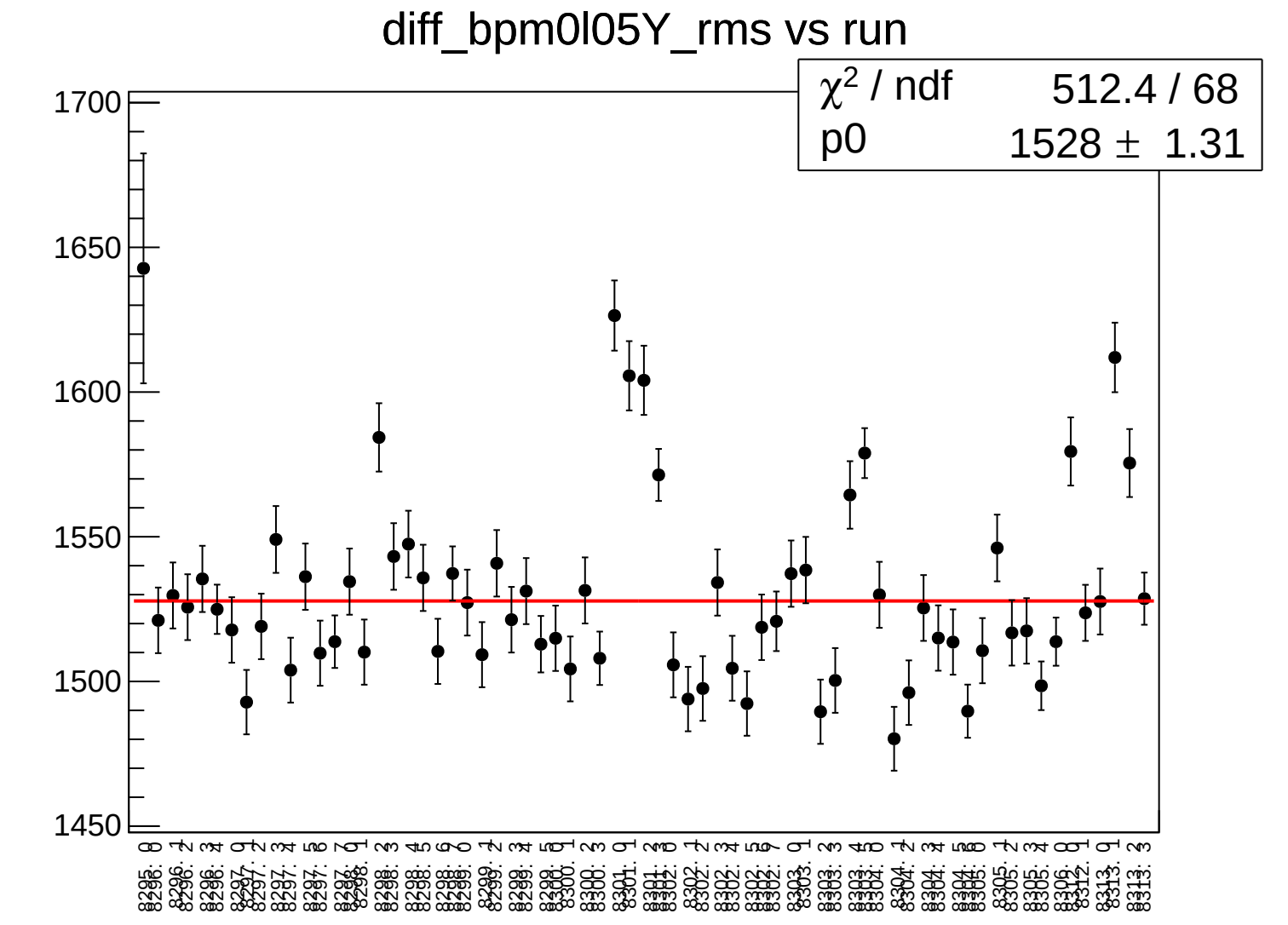

diff_bpm0l04Y_rms vs run
χ² / ndf 466.4 / 68
p0 1100 ± 0.9437
1250
1200
1150
1100
1050

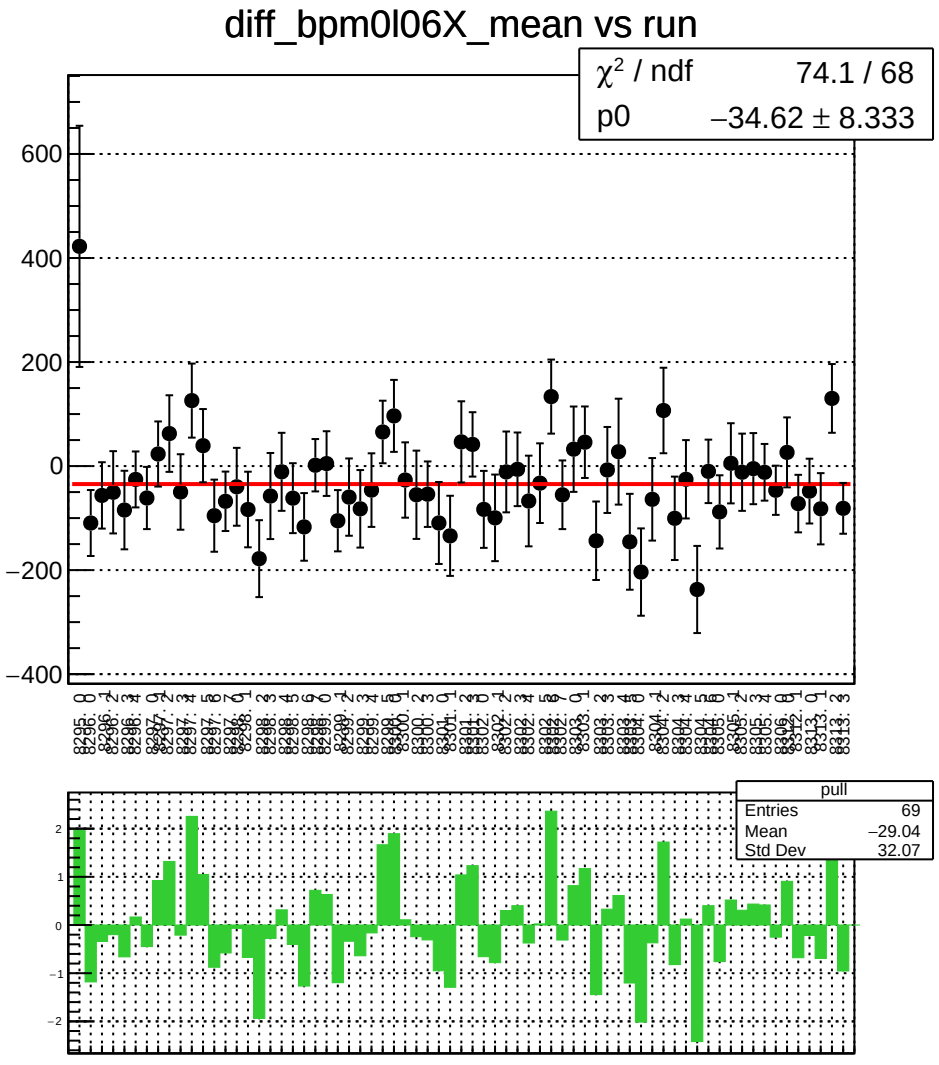

diff_bpm0l05X_mean vs run
χ² / ndf 70.26 / 68
p0 11.22 ± 7.2
pull
Entries 69
Mean 387.9
Std Dev 358.6
pull1D
Entries 69
Mean 0.001583
Std Dev 1.009

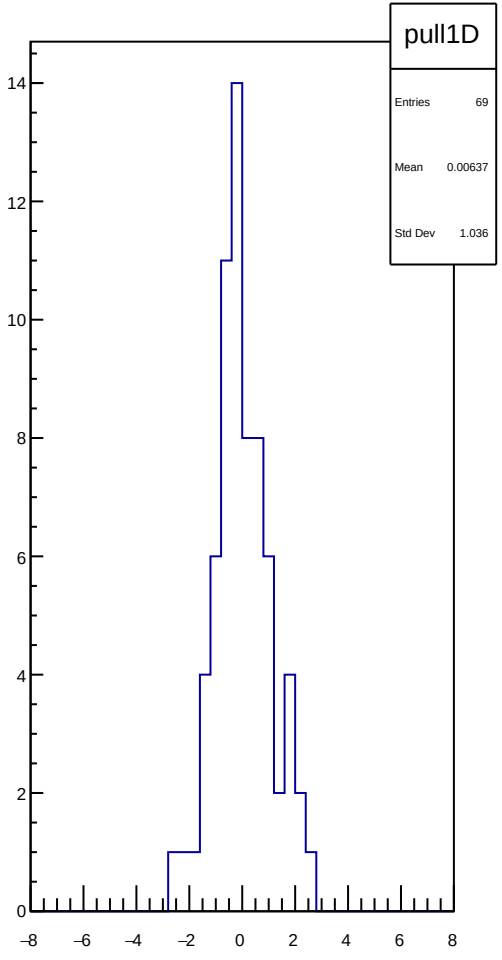

diff_bpm0l05X_rms vs run
χ² / ndf 2.007e+04 / 68
p0 5893 ± 5.092
11000
10000
9000
8000
7000
6000
5000

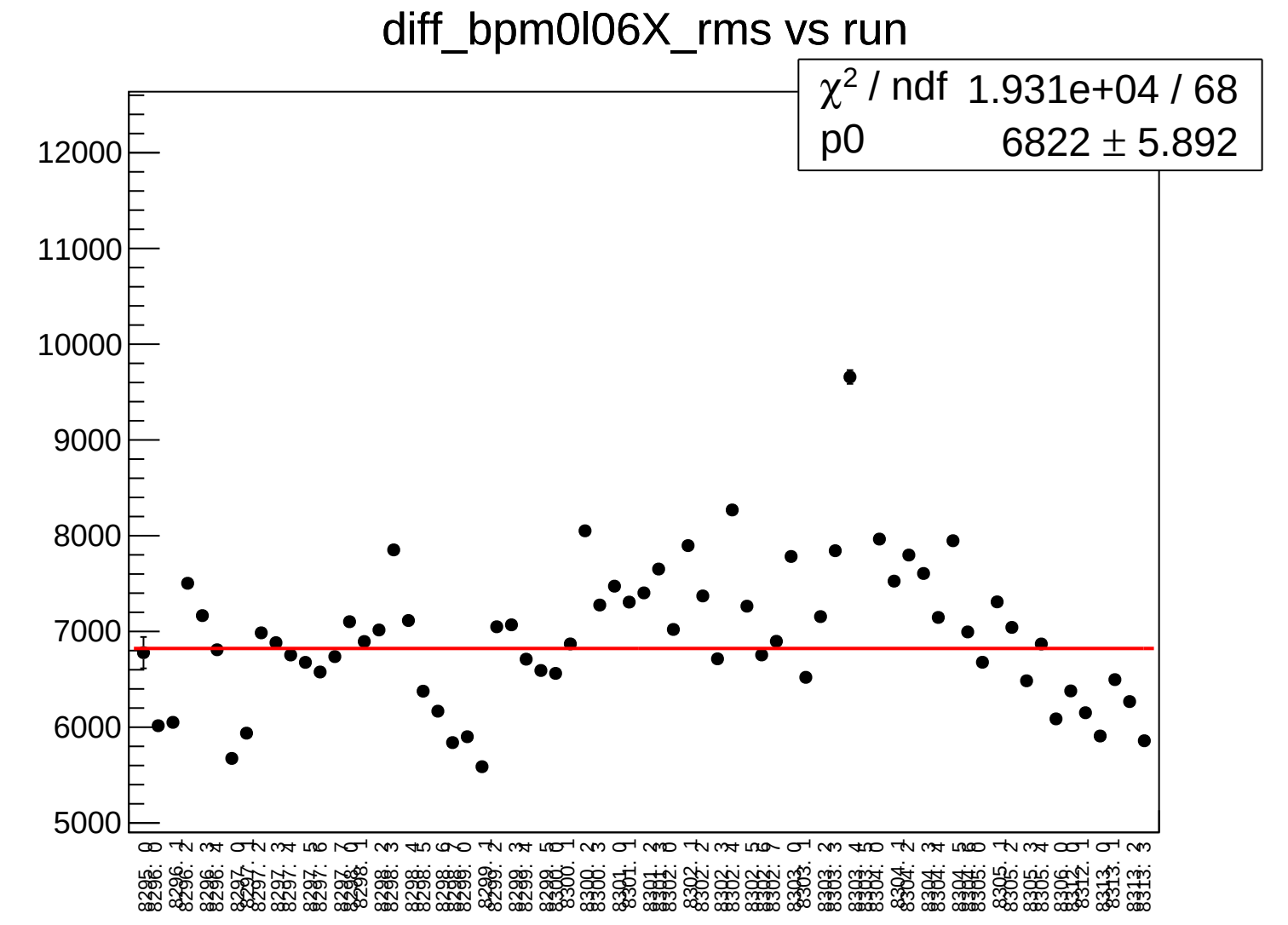

diff_bpm0l05Y_mean vs run
χ² / ndf 123.5 / 68
p0 53 ± 1.853
pull
Entries 69
Mean −1455
Std Dev 1494

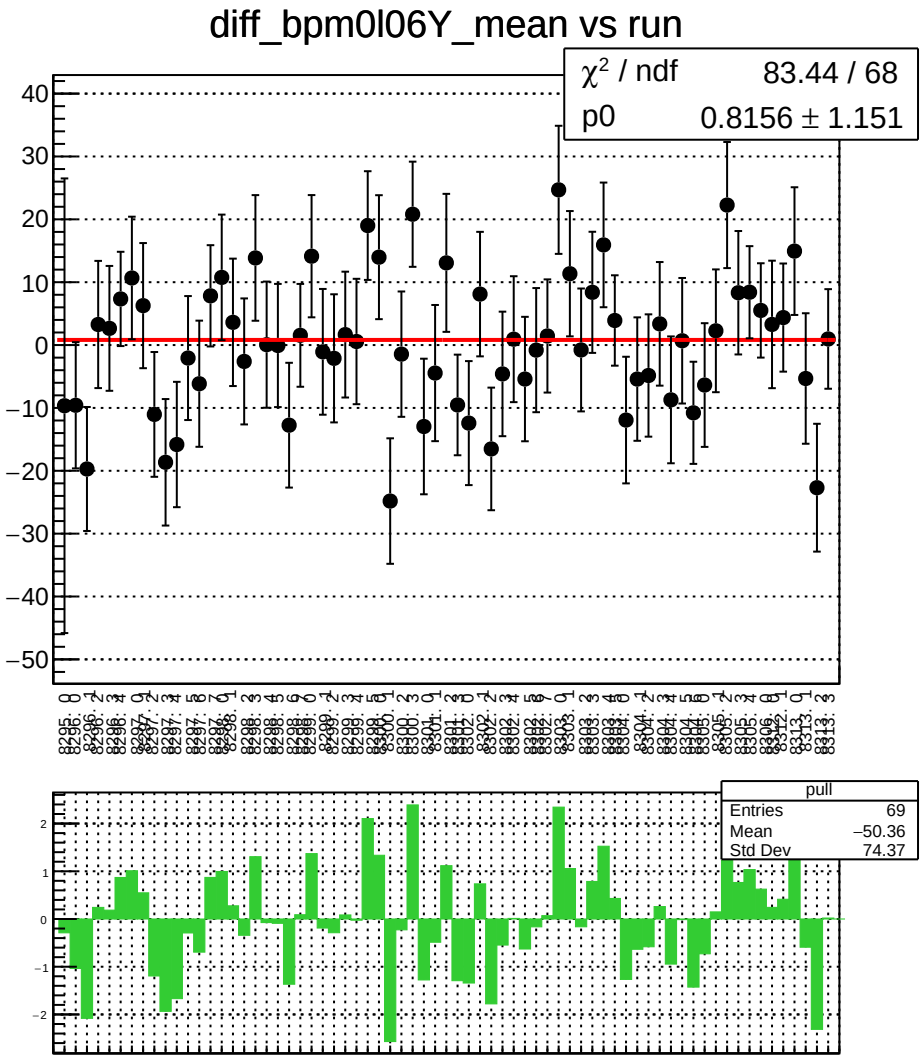

pull1D
Entries 69
Mean −0.002456
Std Dev 1.338

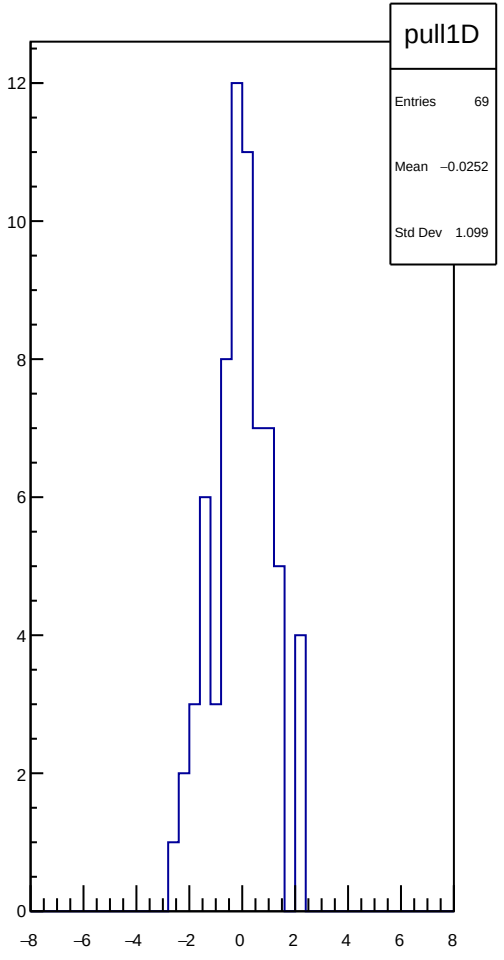

diff_bpm0l05Y_rms vs run
χ² / ndf 512.4 / 68
p0 1528 ± 1.31
1700
1650
1600
1550
1500
1450

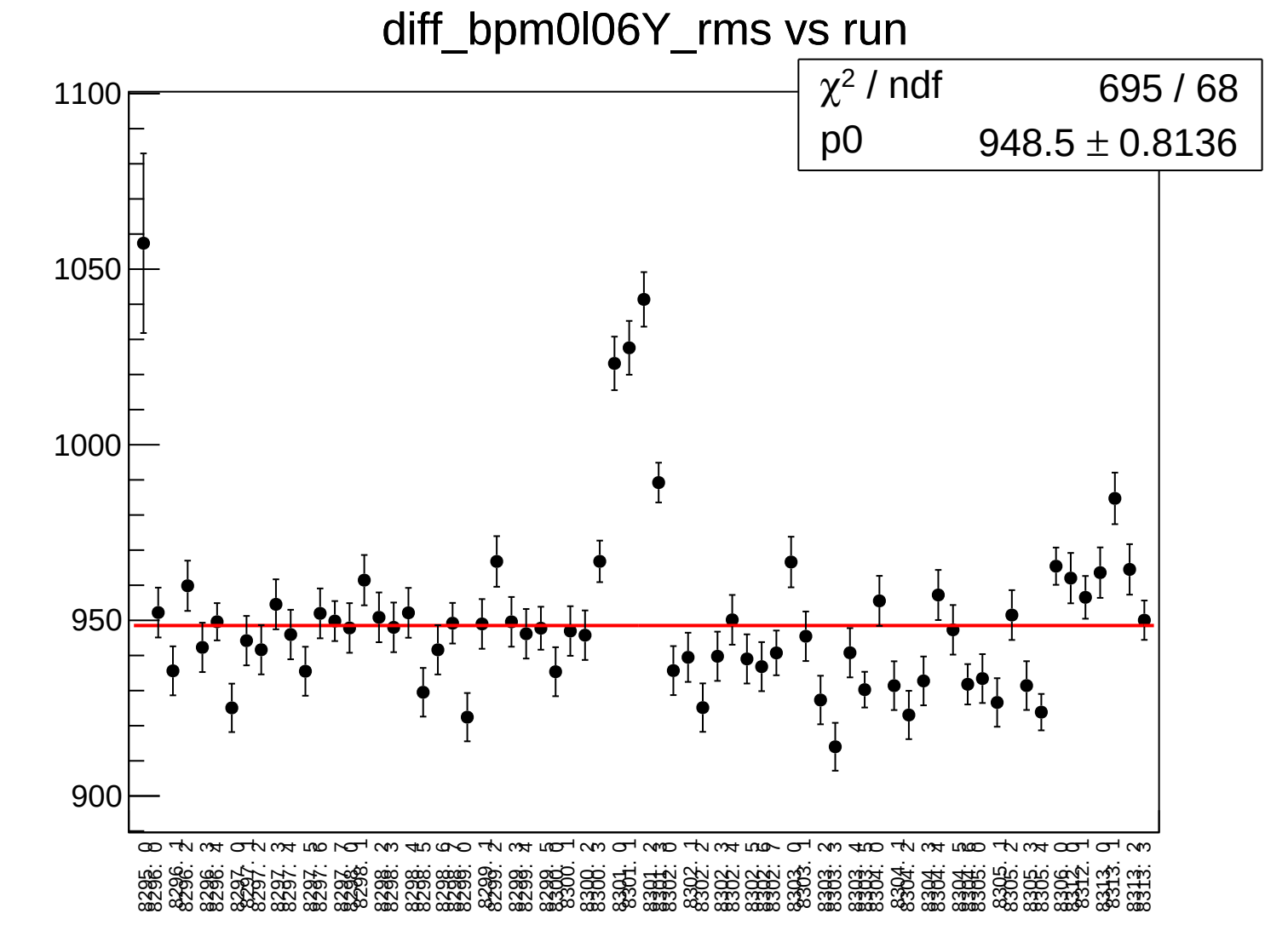

diff_bpm0l06X_mean vs run
χ² / ndf 74.1 / 68
p0 −34.62 ± 8.333
pull
Entries 69
Mean −29.04
Std Dev 32.07

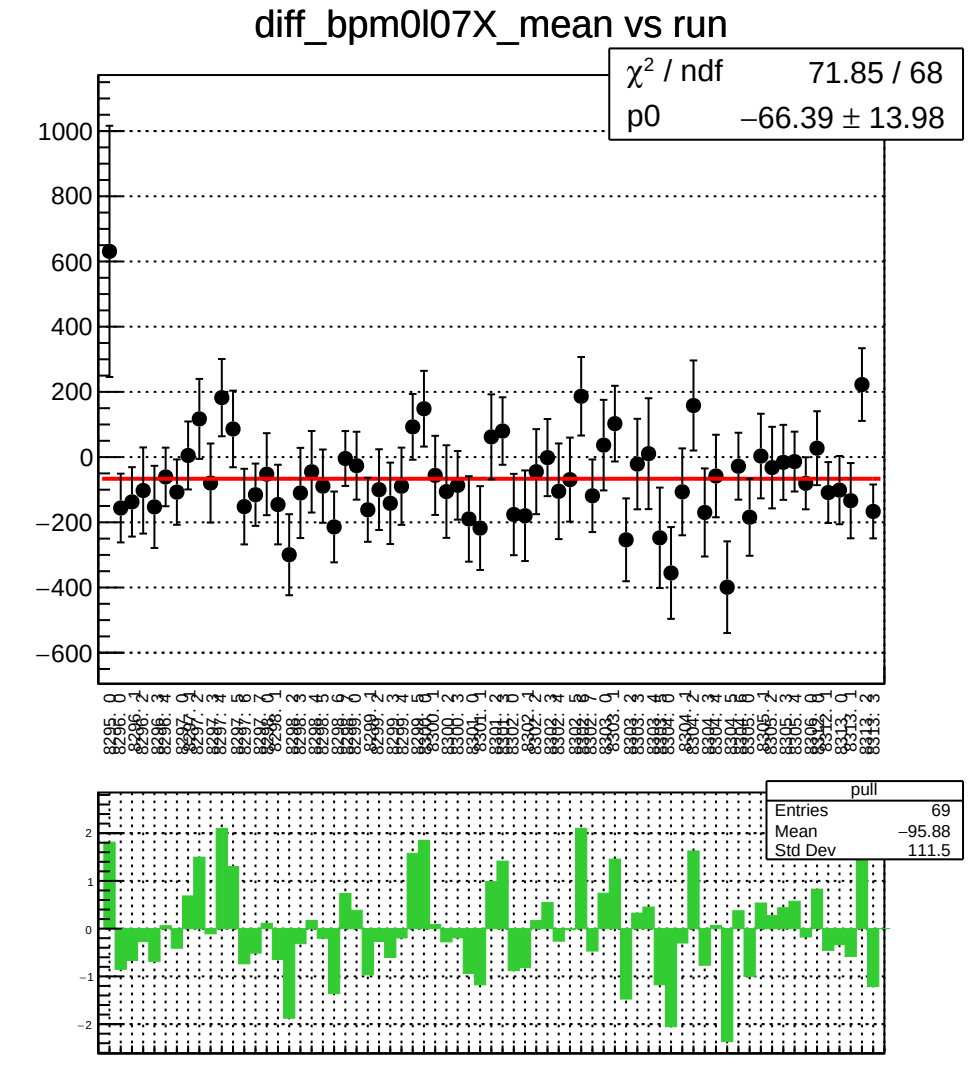

pull1D
Entries 69
Mean 0.00637
Std Dev 1.036

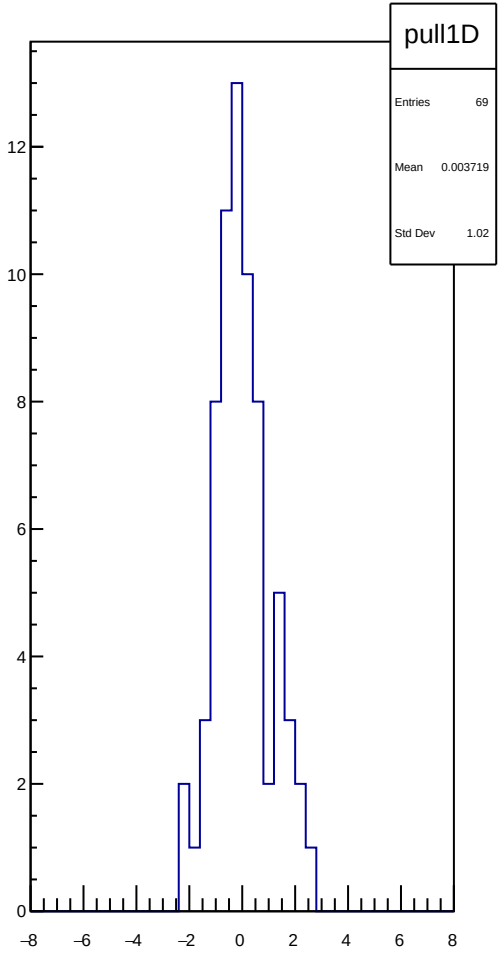

diff_bpm0l06X_rms vs run
χ² / ndf 1.931e+04 / 68
p0 6822 ± 5.892
12000
11000
10000
9000
8000
7000
6000
5000

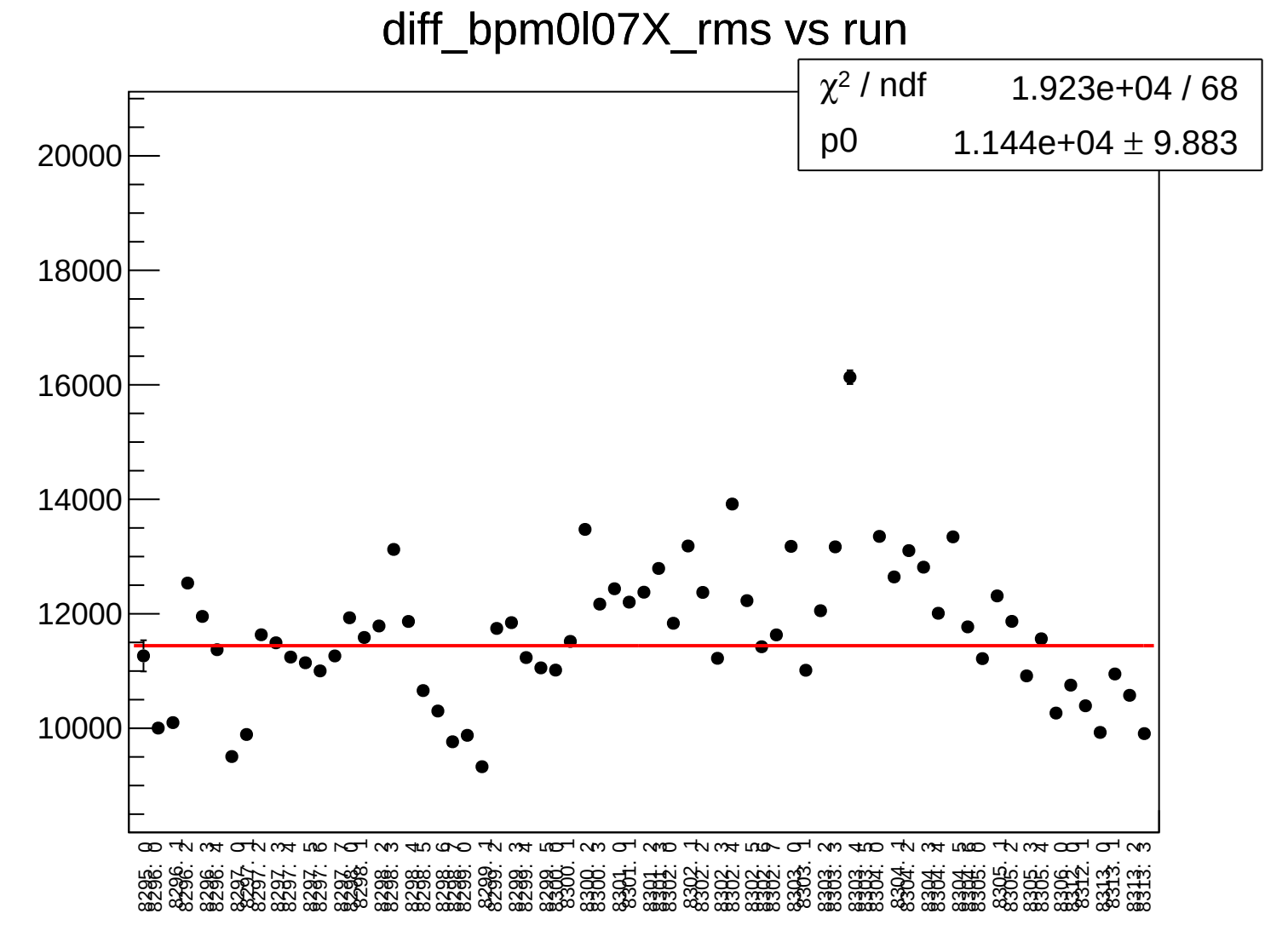

diff_bpm0l06Y_mean vs run
χ² / ndf 83.44 / 68
p0 0.8156 ± 1.151
pull
Entries 69
Mean −50.36
Std Dev 74.37

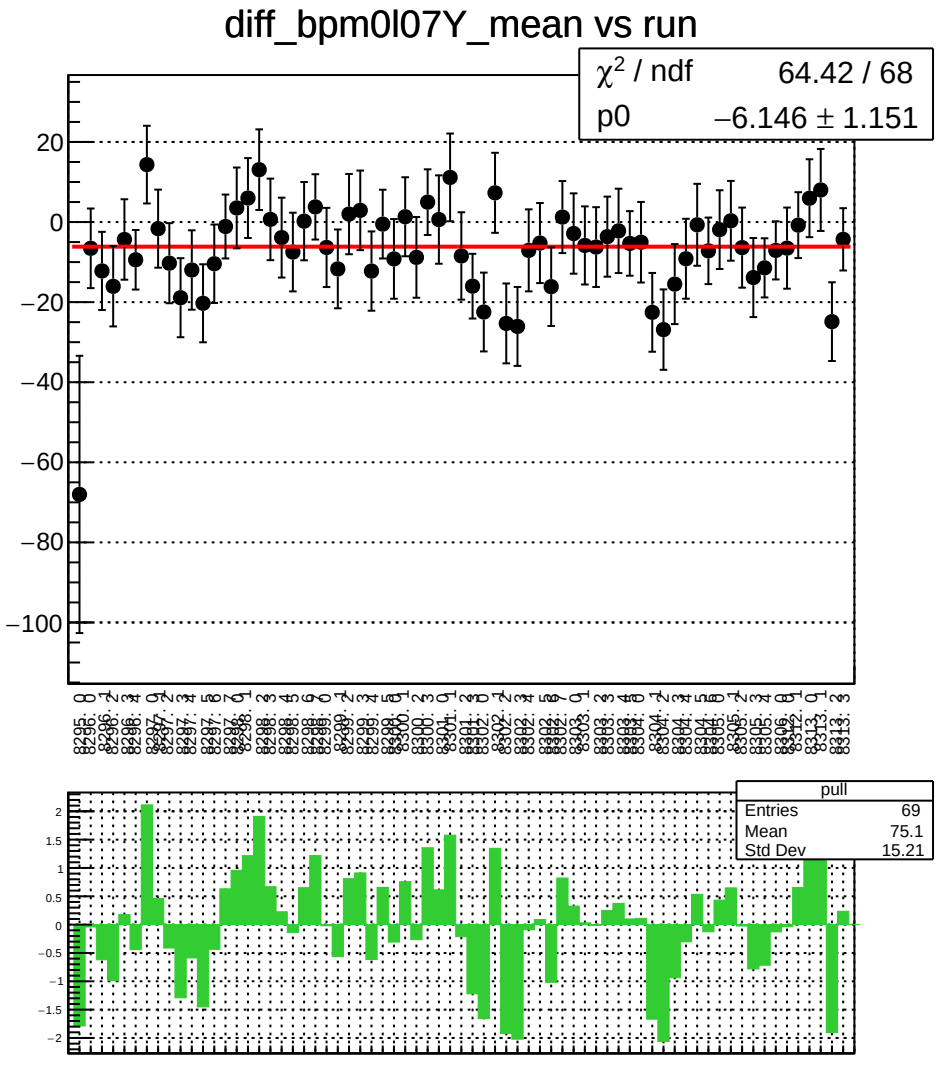

pull1D
Entries 69
Mean −0.0252
Std Dev 1.099

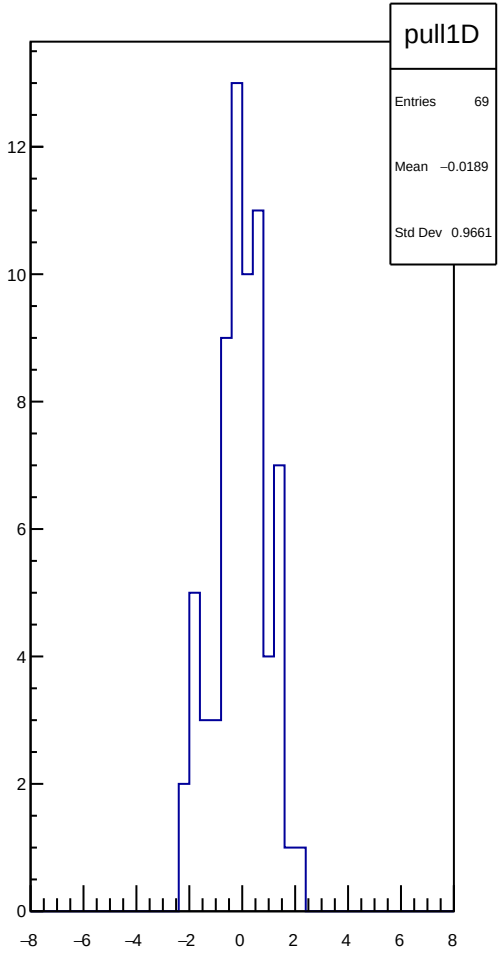

diff_bpm0l06Y_rms vs run
χ² / ndf 695 / 68
p0 948.5 ± 0.8136
1100
1050
1000
950
900

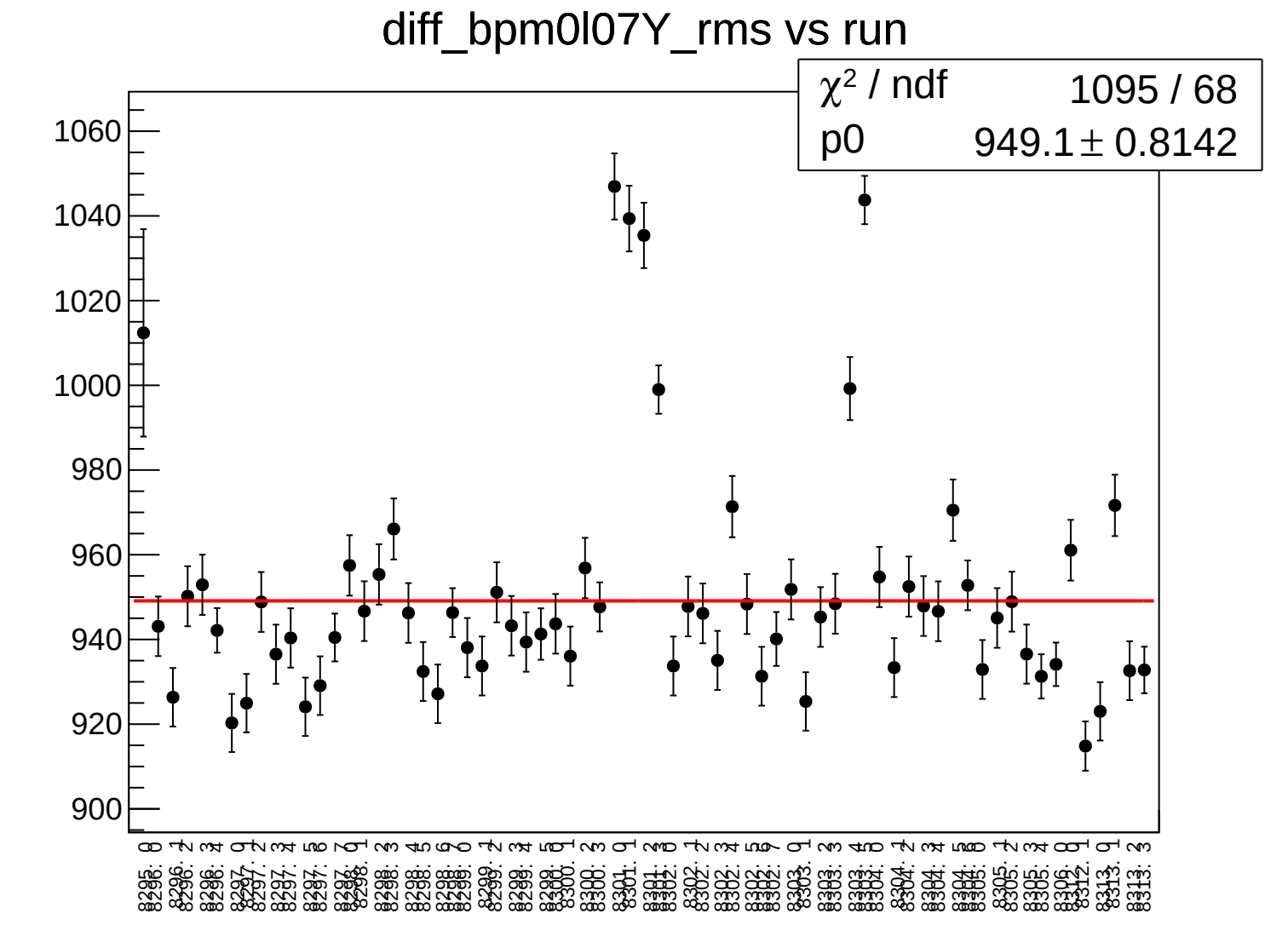

diff_bpm0l07X_mean vs run
χ² / ndf 71.85 / 68
p0 −66.39 ± 13.98
pull
Entries 69
Mean −95.88
Std Dev 111.5

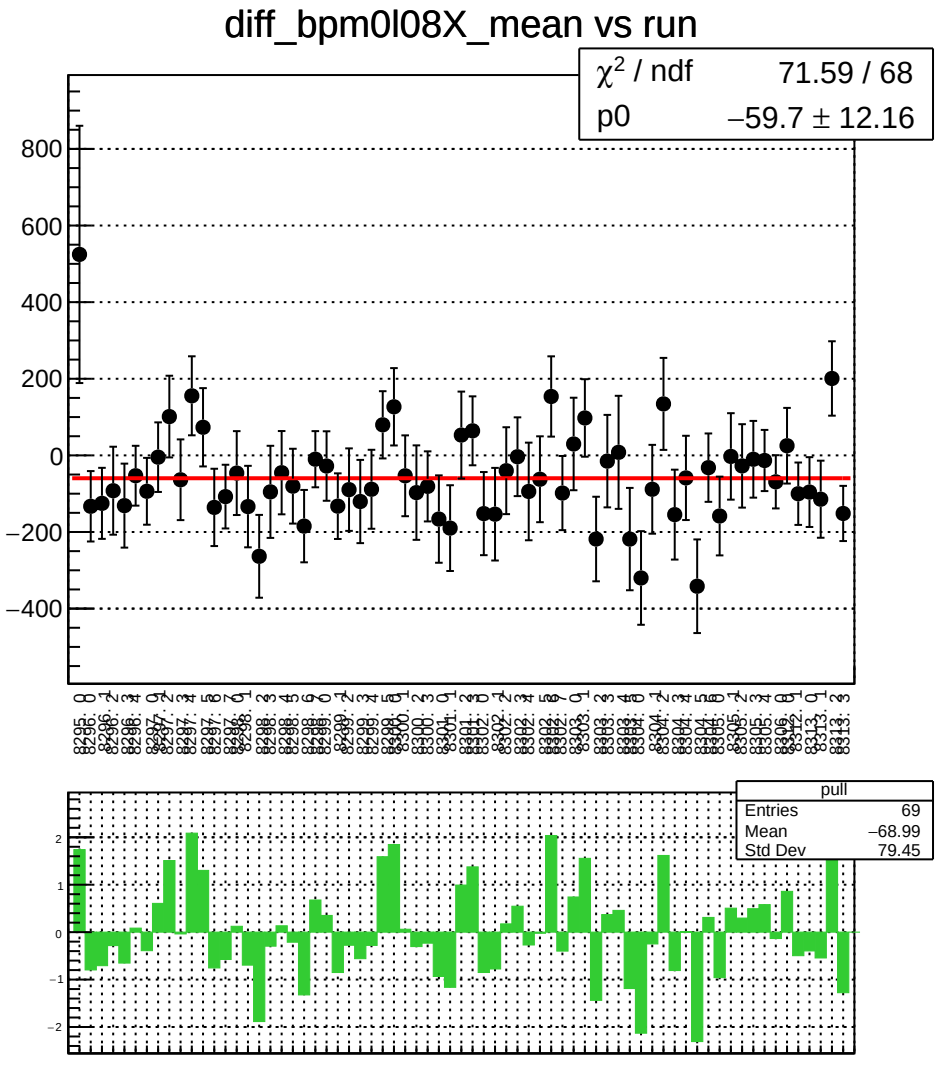

pull1D
Entries 69
Mean 0.003719
Std Dev 1.02

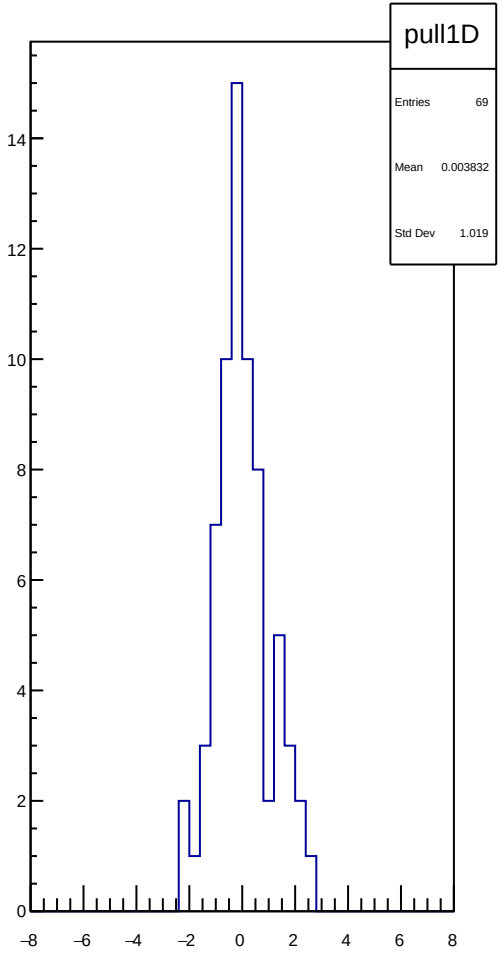

diff_bpm0l07X_rms vs run
χ² / ndf 1.923e+04 / 68
p0 1.144e+04 ± 9.883
20000
18000
16000
14000
12000
10000

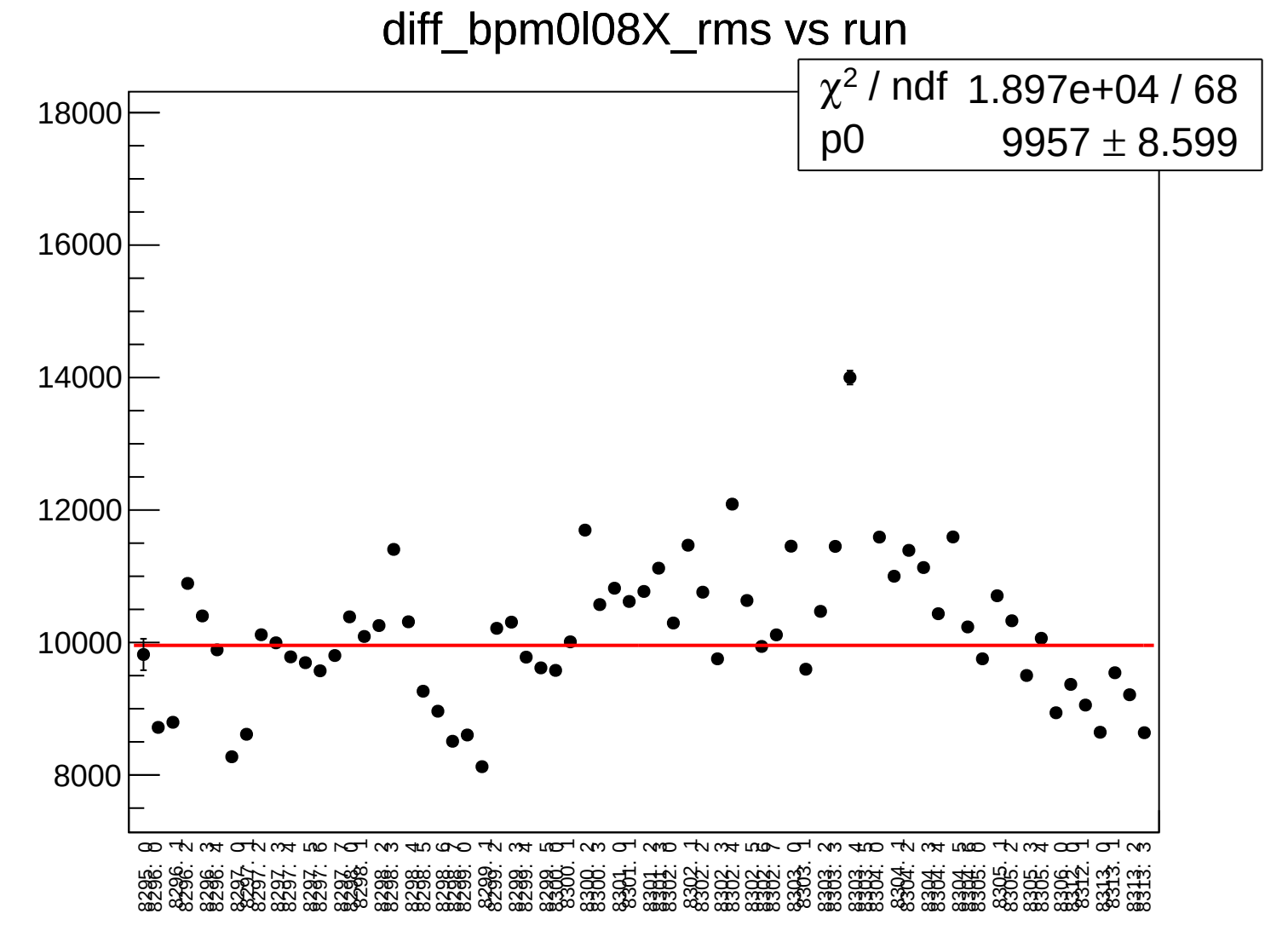

diff_bpm0l07Y_mean vs run
χ^2 / ndf 64.42 / 68
p0 −6.146 ± 1.151
pull
Entries 69
Mean 75.1
Std Dev 15.21

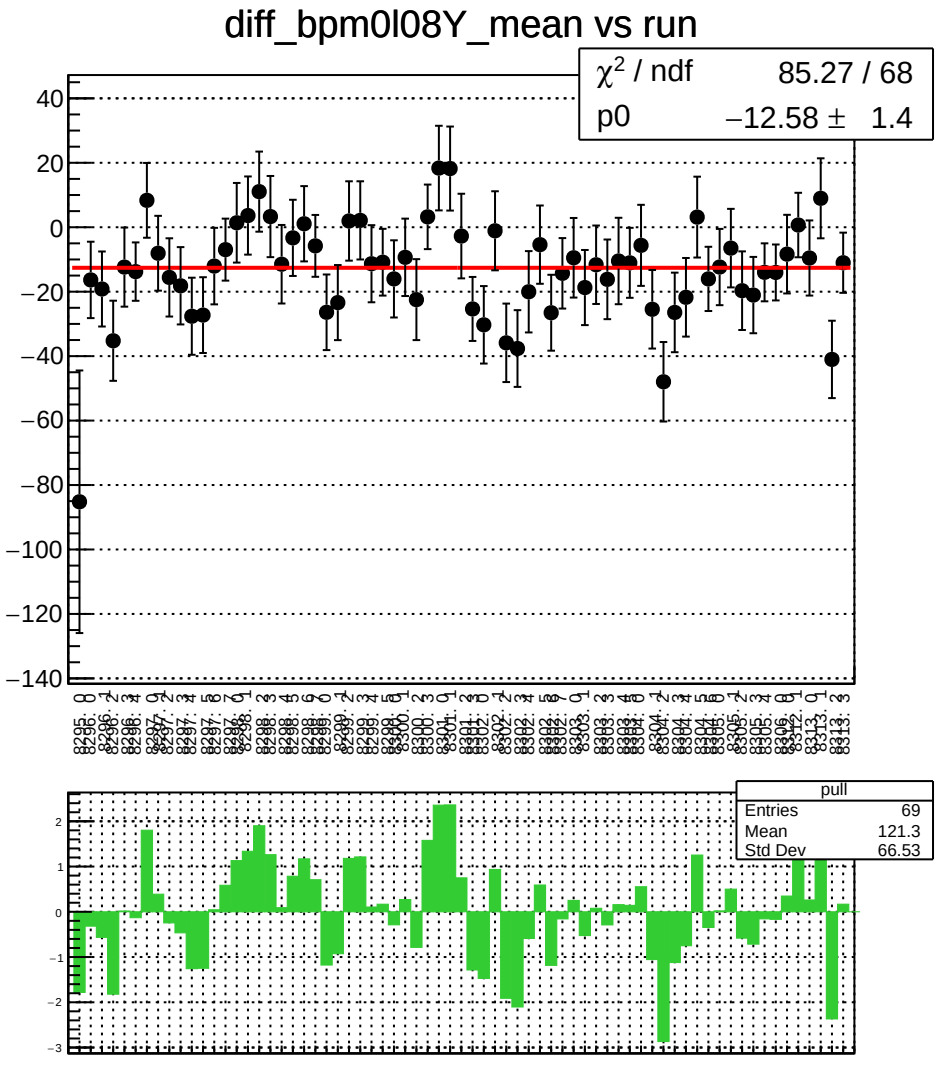

pull1D
Entries 69
Mean −0.0189
Std Dev 0.9661

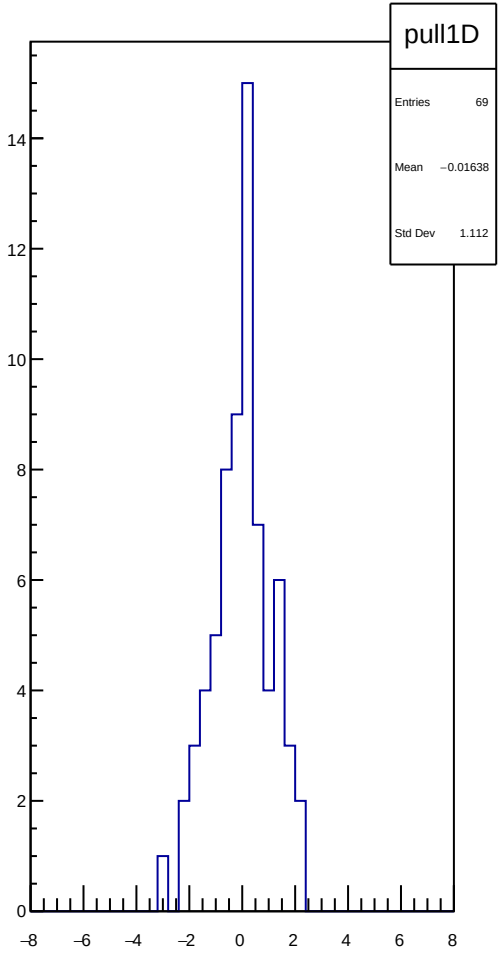

diff_bpm0l07Y_rms vs run
χ² / ndf 1095 / 68
p0 949.1 ± 0.8142
1060
1040
1020
1000
980
960
940
920
900

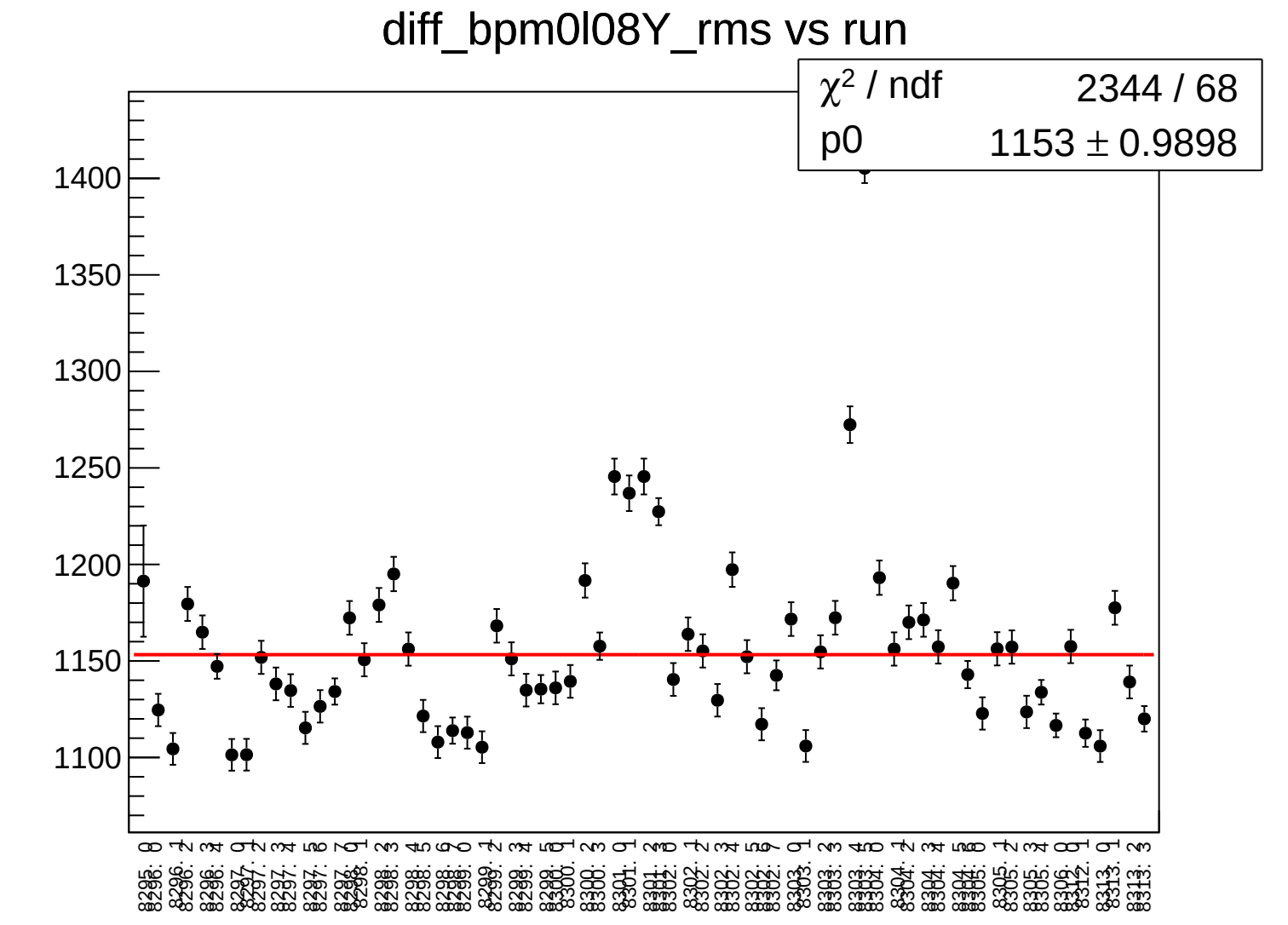

diff_bpm0l08X_mean vs run
χ^2 / ndf 71.59 / 68
p0 −59.7 ± 12.16
pull
Entries 69
Mean −68.99
Std Dev 79.45

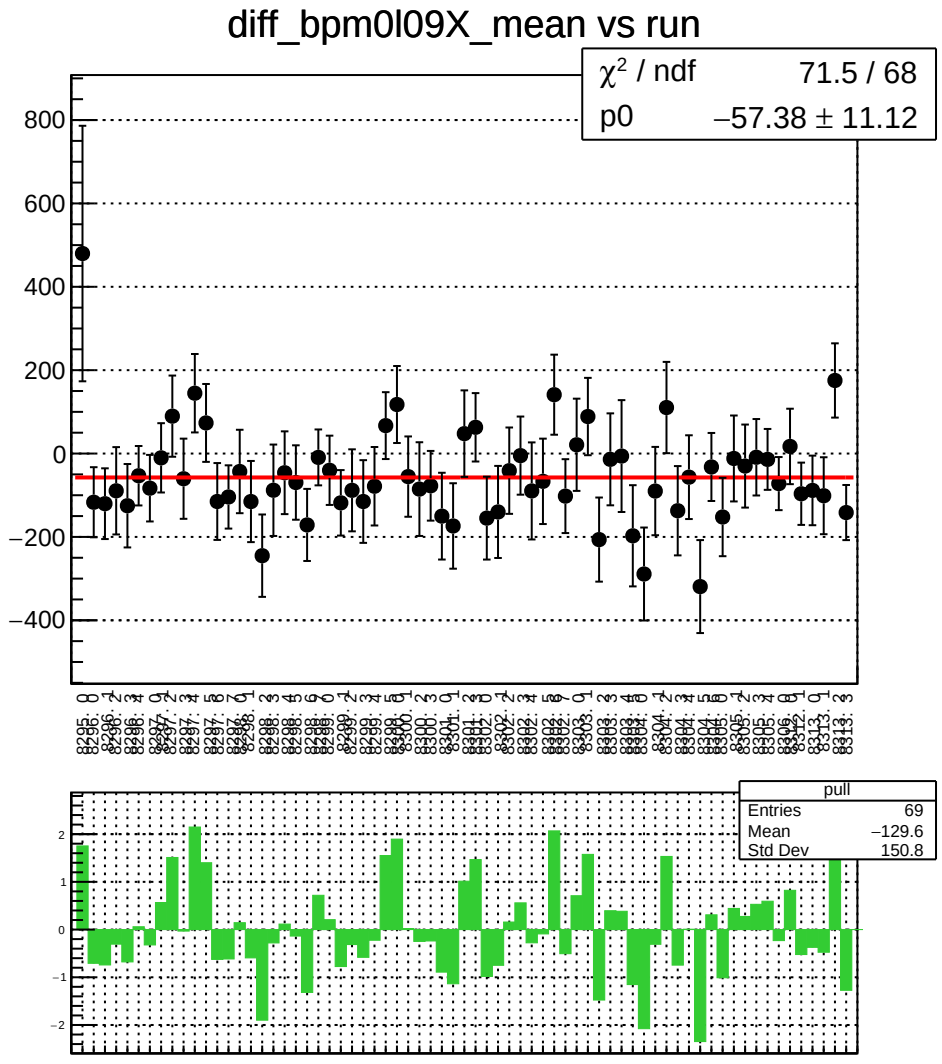

pull1D
Entries 69
Mean 0.003832
Std Dev 1.019

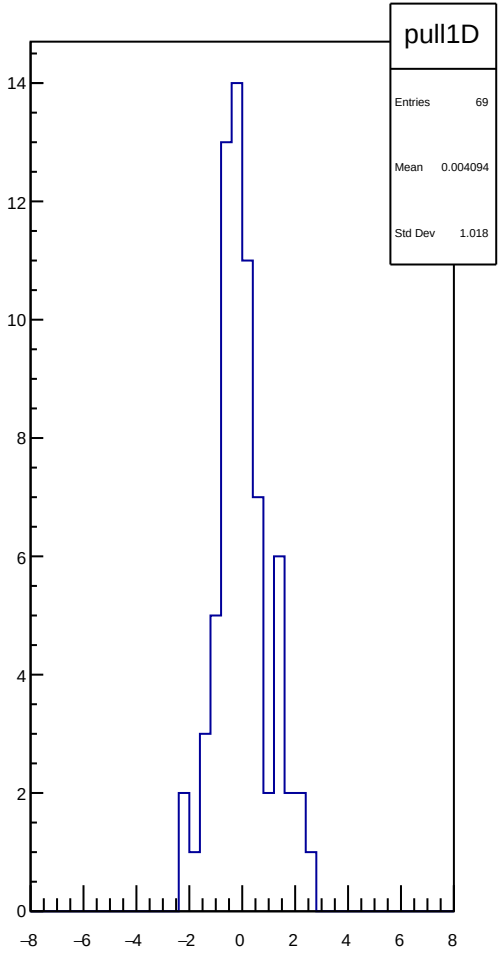

diff_bpm0l08X_rms vs run
χ² / ndf 1.897e+04 / 68
p0 9957 ± 8.599
18000
16000
14000
12000
10000
8000

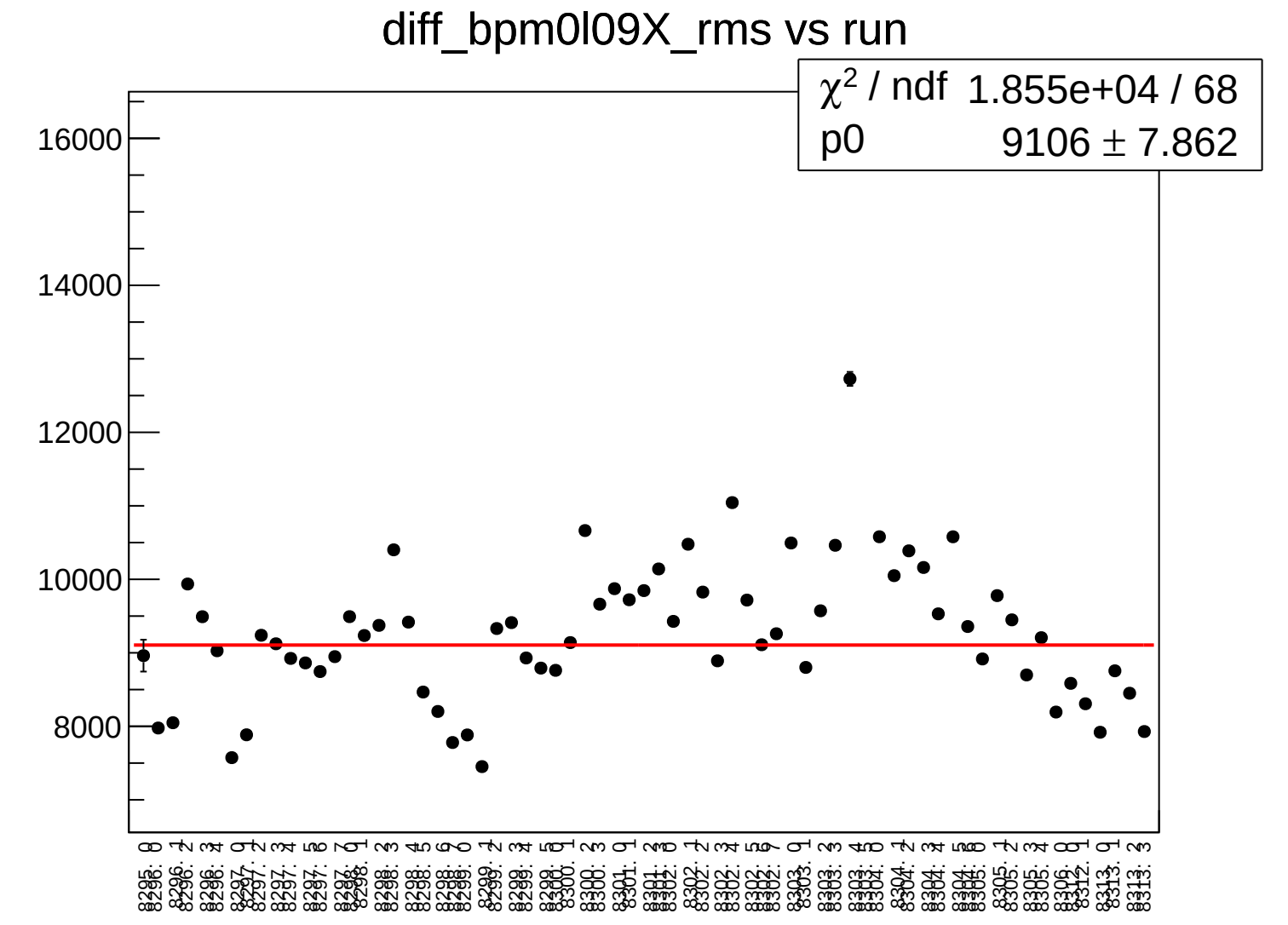

diff_bpm0l08Y_mean vs run
χ² / ndf 85.27 / 68
p0 −12.58 ± 1.4
pull
Entries 69
Mean 121.3
Std Dev 66.53

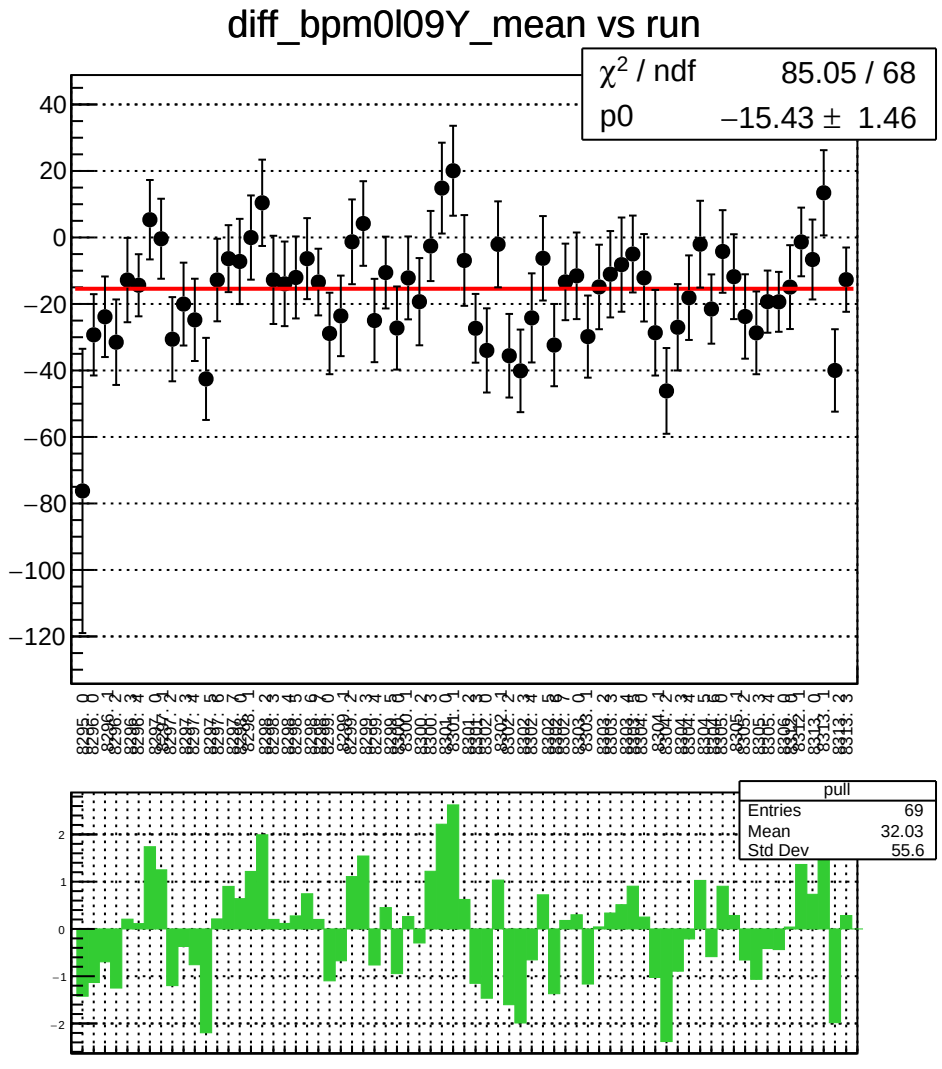

pull1D
Entries 69
Mean −0.01638
Std Dev 1.112

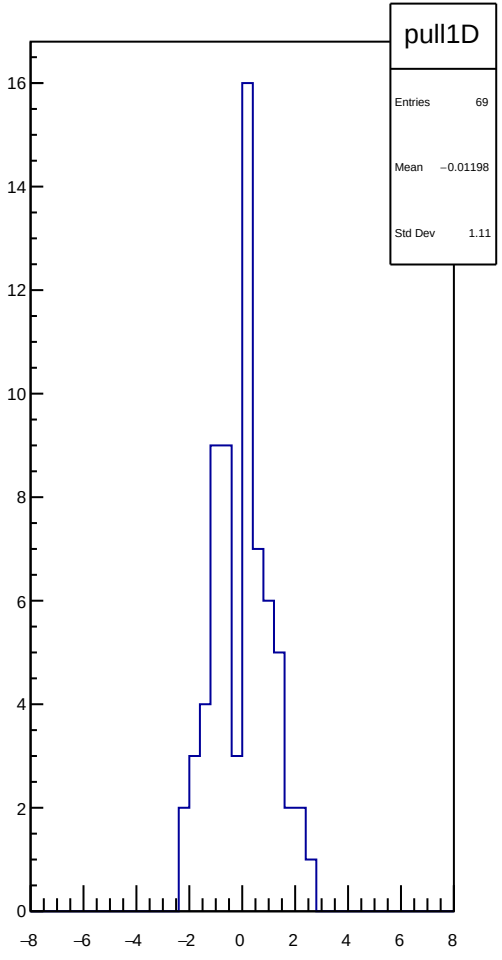

diff_bpm0l08Y_rms vs run
χ² / ndf 2344 / 68
p0 1153 ± 0.9898
1400
1350
1300
1250
1200
1150
1100

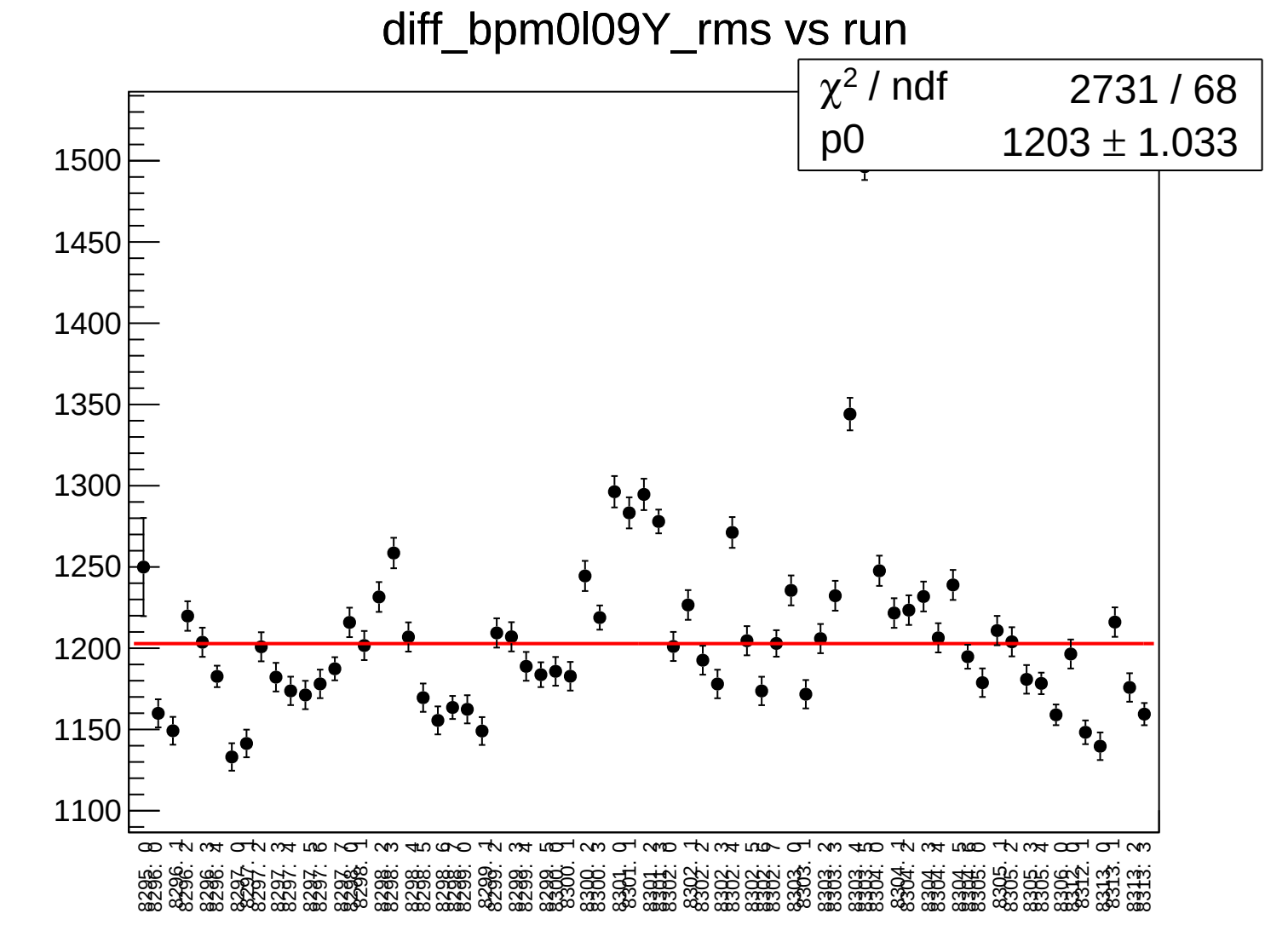

diff_bpm0l09X_mean vs run
χ² / ndf 71.5 / 68
p0 −57.38 ± 11.12
pull
Entries 69
Mean −129.6
Std Dev 150.8

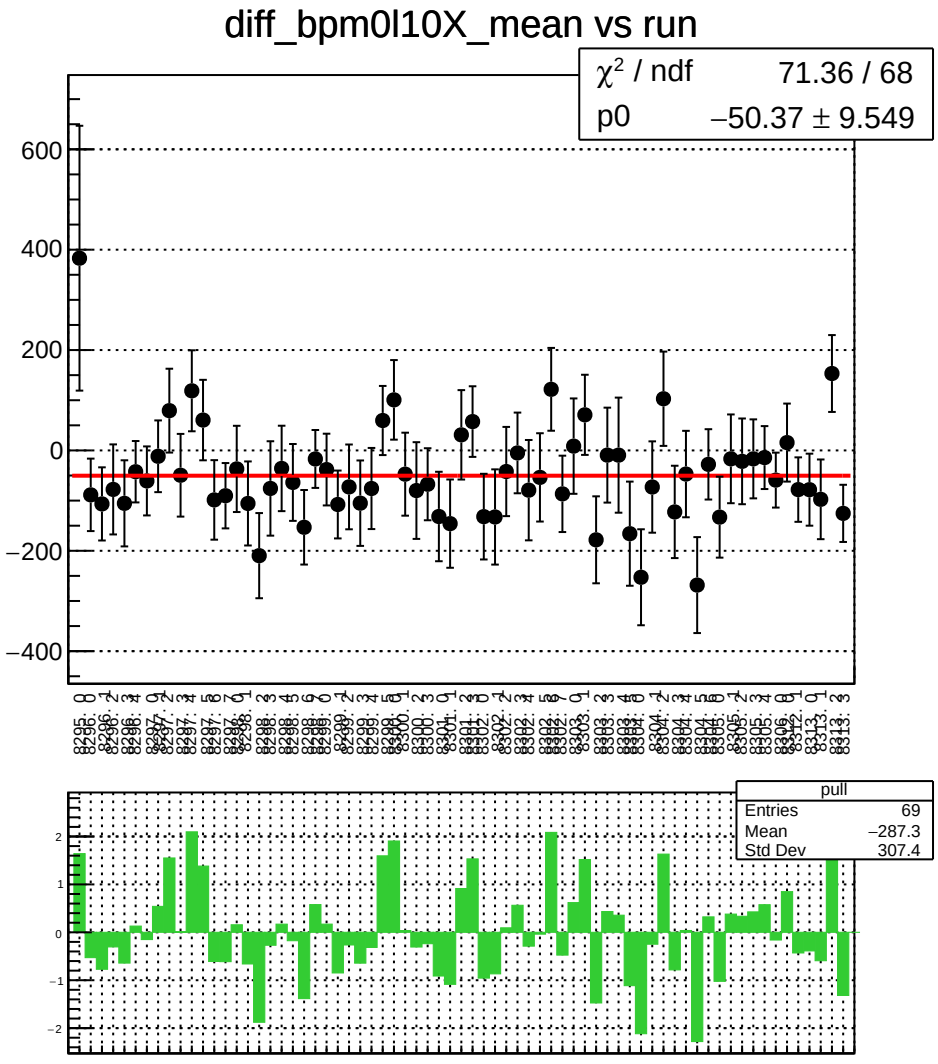

pull1D
Entries 69
Mean 0.004094
Std Dev 1.018

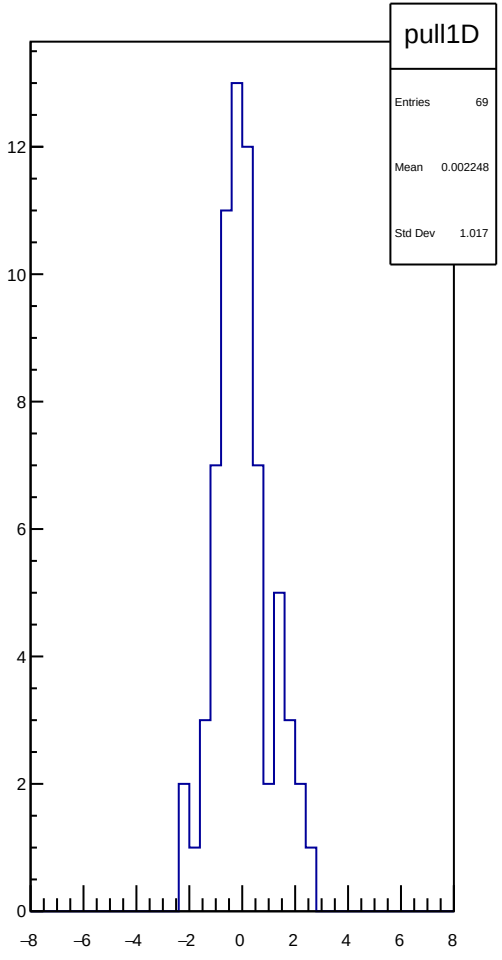

diff_bpm0l09X_rms vs run
χ² / ndf 1.855e+04 / 68
p0 9106 ± 7.862
16000
14000
12000
10000
8000

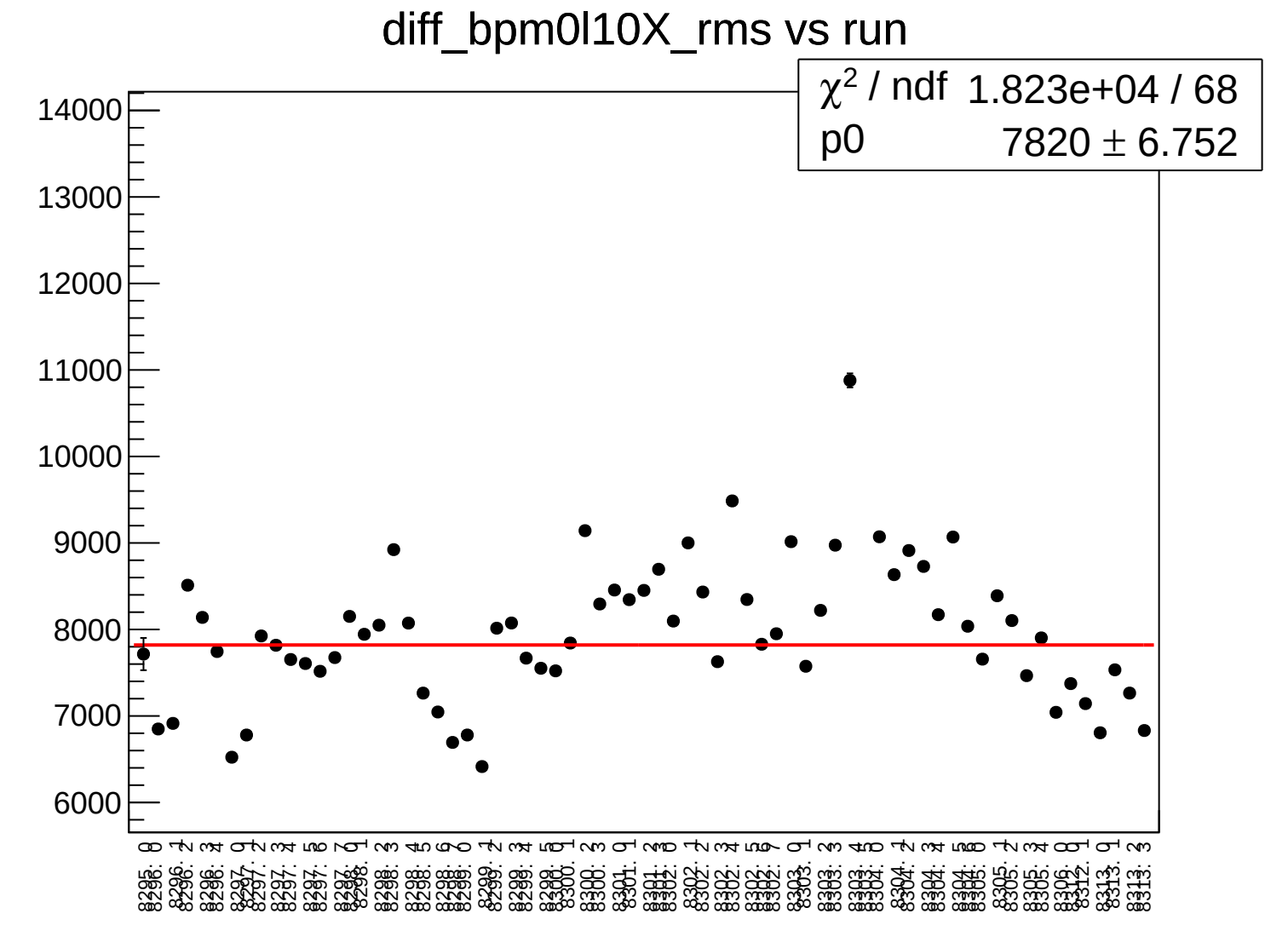

diff_bpm0l09Y_mean vs run
χ² / ndf 85.05 / 68
p0 −15.43 ± 1.46
pull
Entries 69
Mean 32.03
Std Dev 55.6

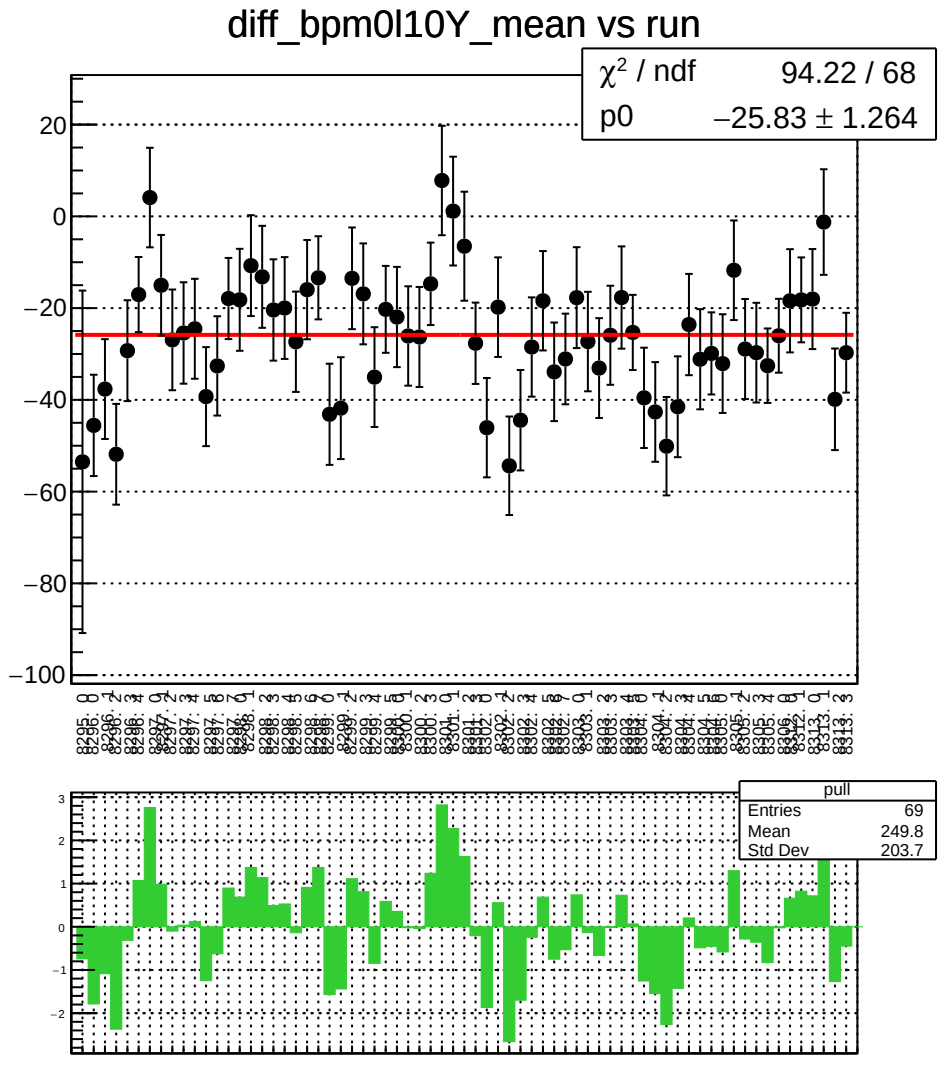

pull1D
Entries 69
Mean −0.01198
Std Dev 1.11

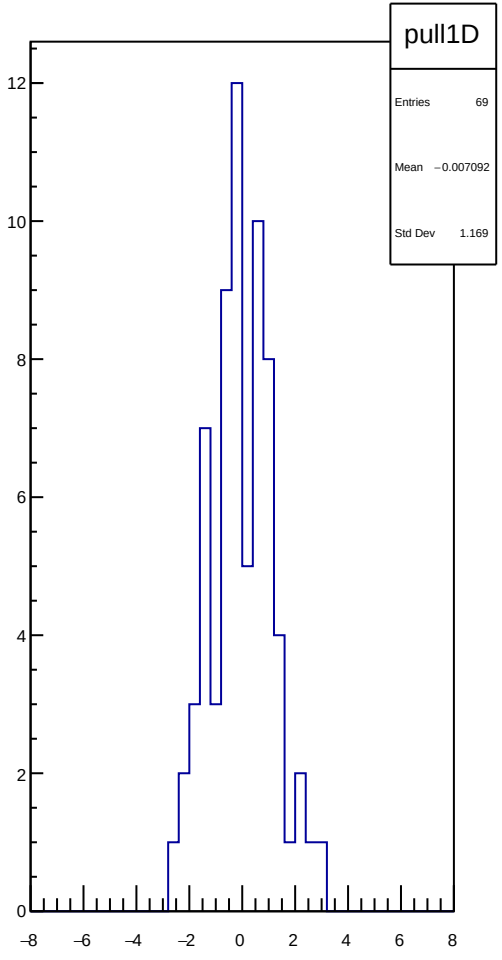

diff_bpm0l09Y_rms vs run
χ² / ndf 2731 / 68
p0 1203 ± 1.033
1500
1450
1400
1350
1300
1250
1200
1150
1100

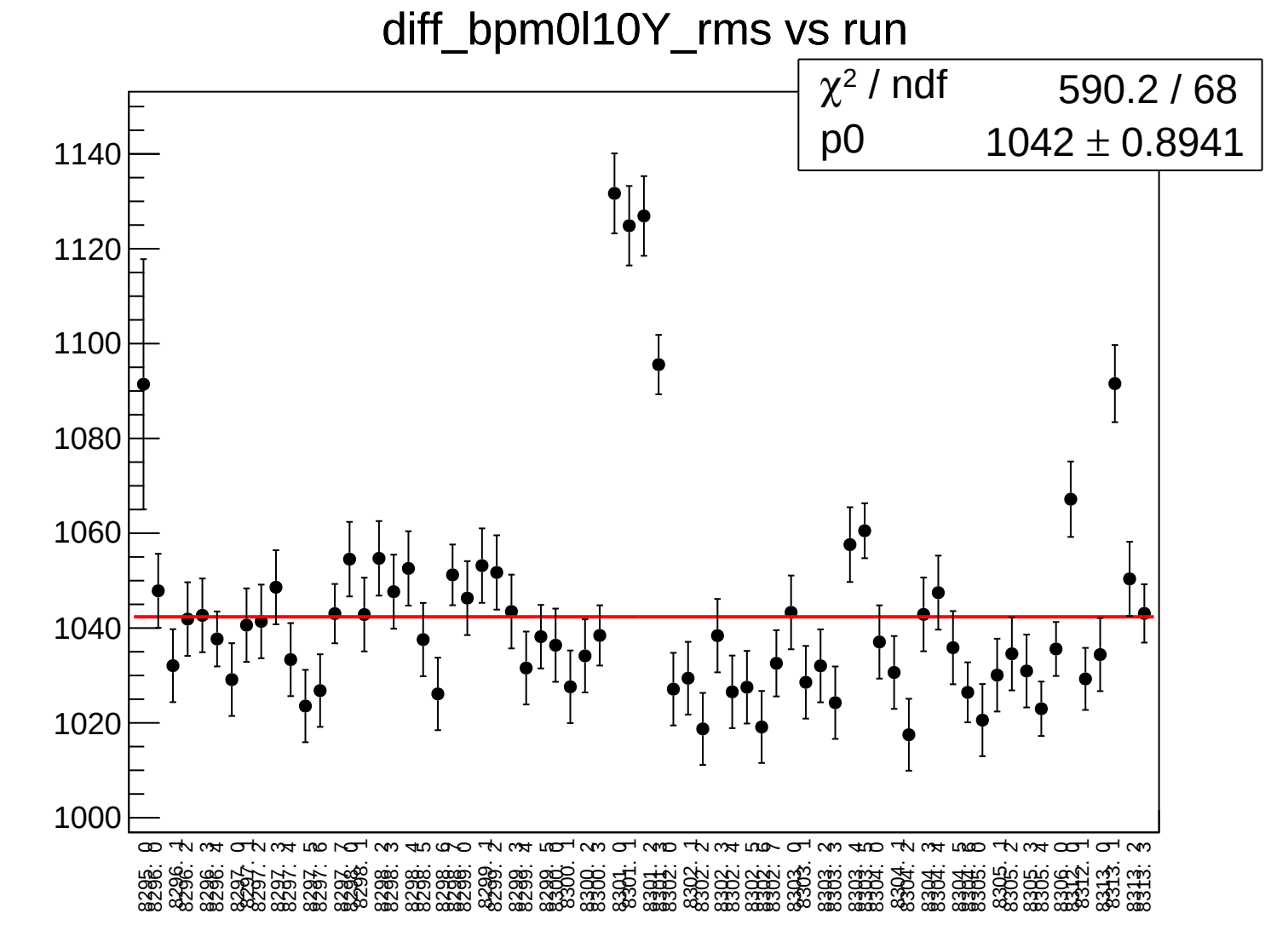

diff_bpm0l10X_mean vs run
χ² / ndf 71.36 / 68
p0 −50.37 ± 9.549
pull
Entries 69
Mean −287.3
Std Dev 307.4

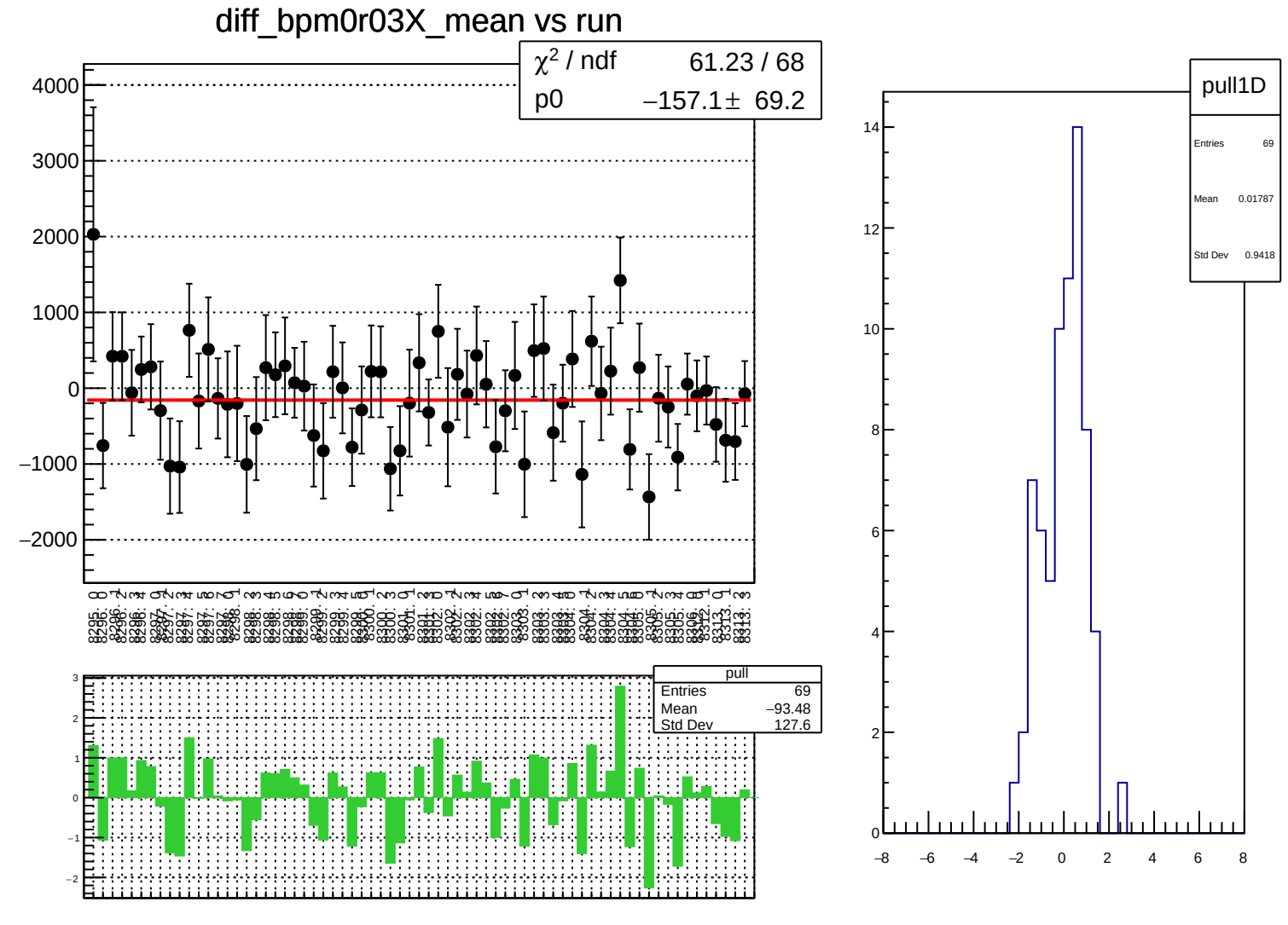

pull1D
Entries 69
Mean 0.002248
Std Dev 1.017

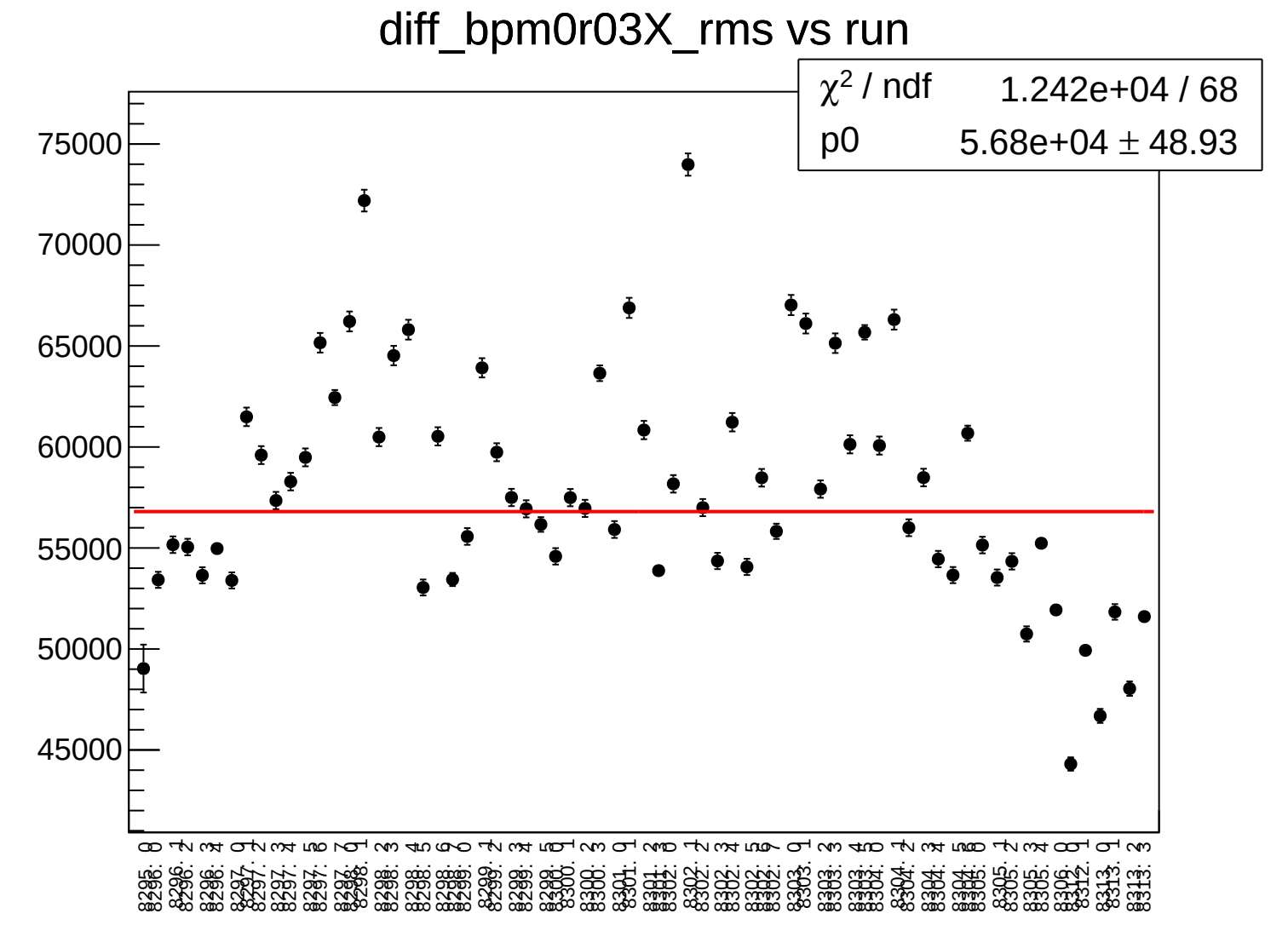

diff_bpm0l10X_rms vs run
χ² / ndf 1.823e+04 / 68
p0 7820 ± 6.752
14000
13000
12000
11000
10000
9000
8000
7000
6000

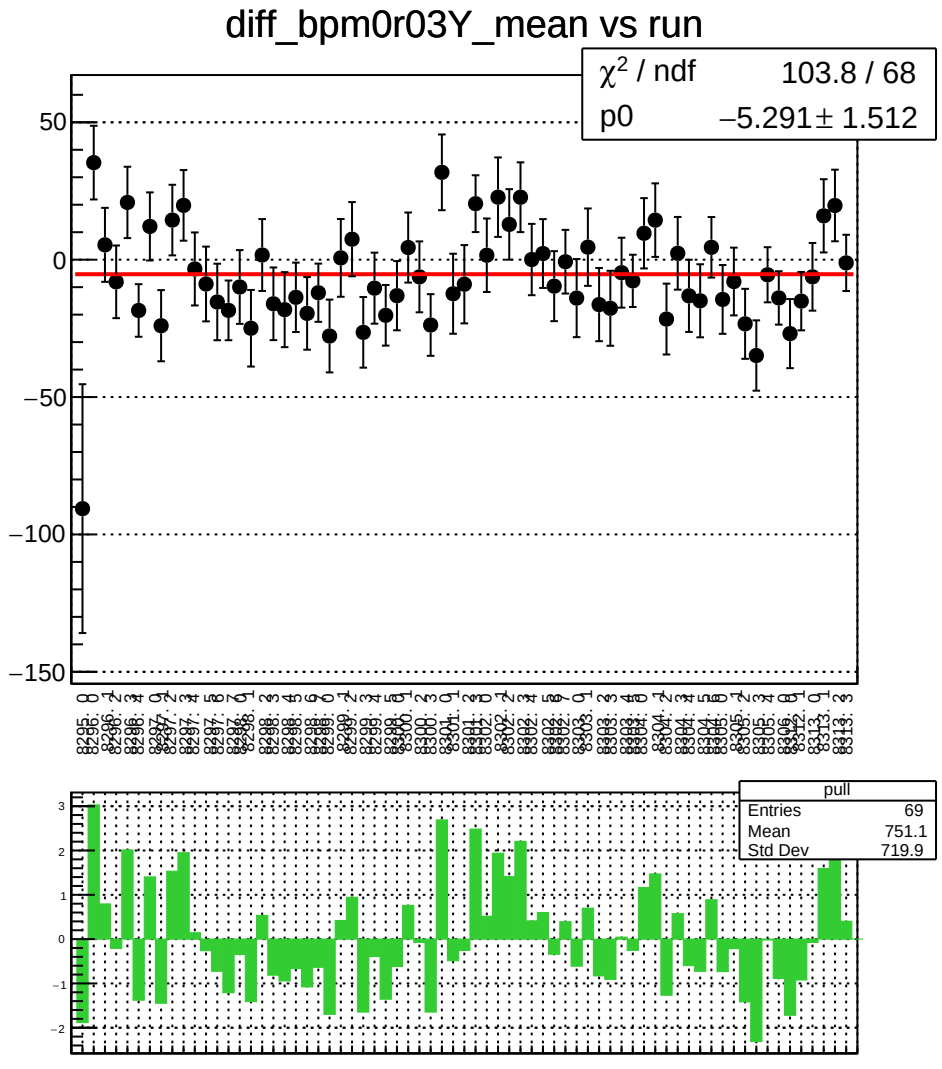

diff_bpm0l10Y_mean vs run
χ² / ndf 94.22 / 68
p0 −25.83 ± 1.264
pull
Entries 69
Mean 249.8
Std Dev 203.7

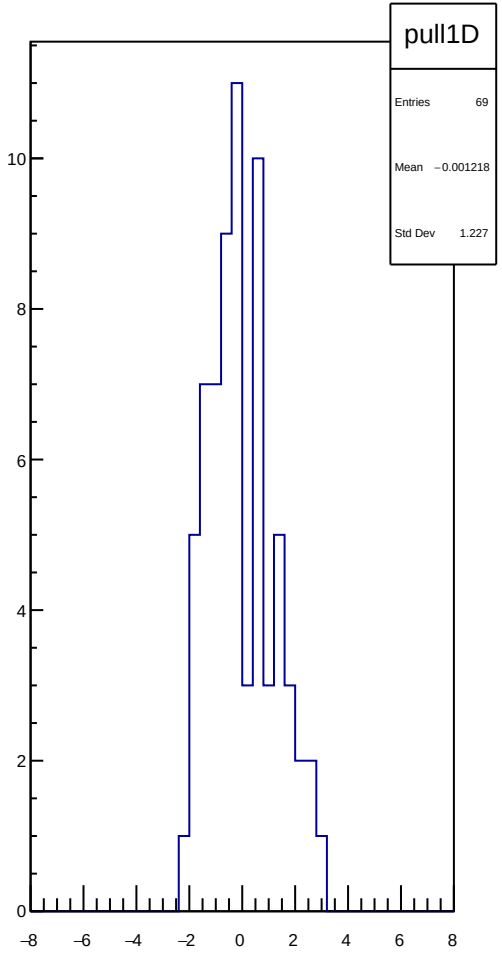

pull1D
Entries 69
Mean −0.007092
Std Dev 1.169

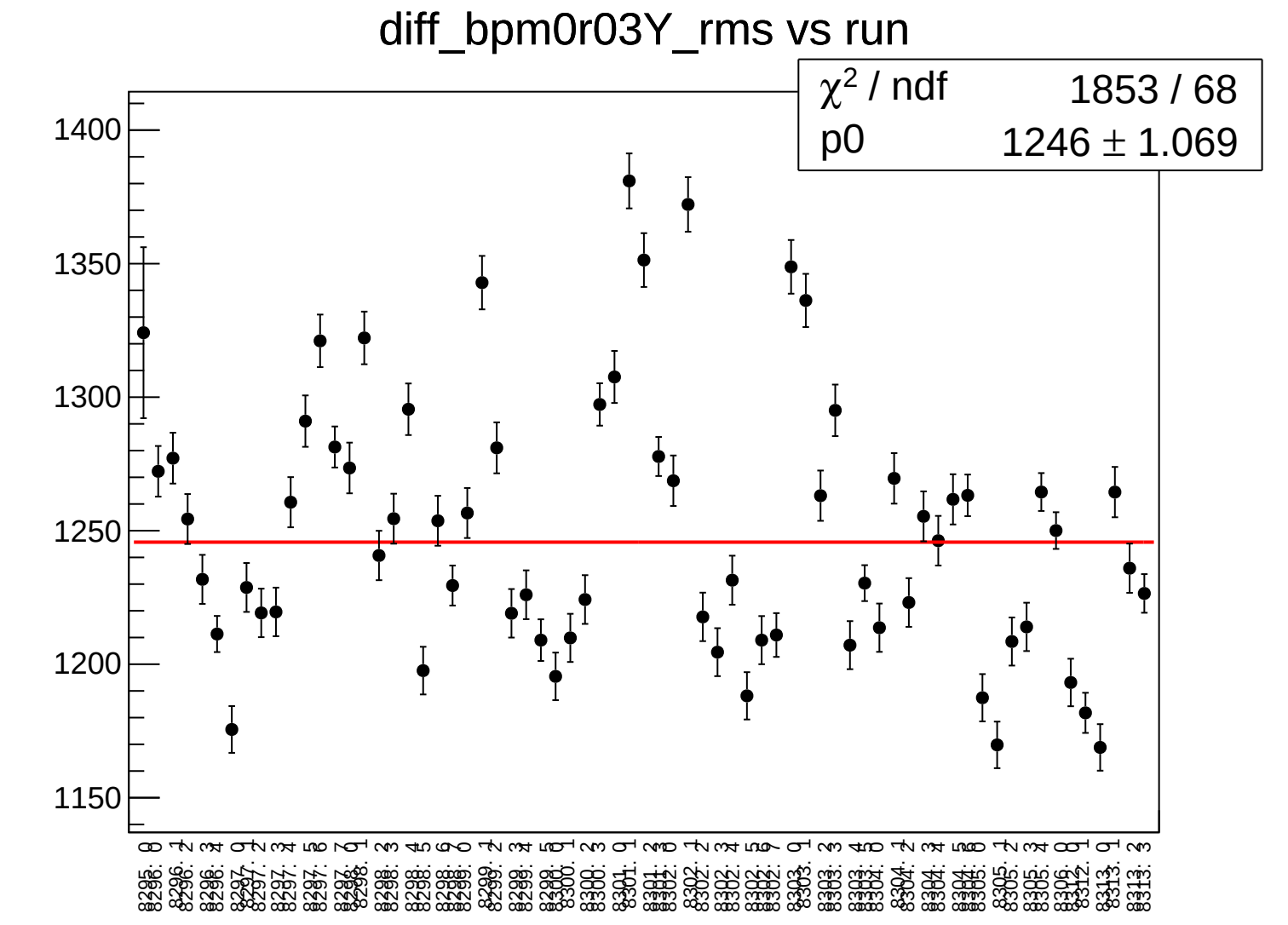

diff_bpm0l10Y_rms vs run
χ² / ndf 590.2 / 68
p0 1042 ± 0.8941
1140
1120
1100
1080
1060
1040
1020
1000

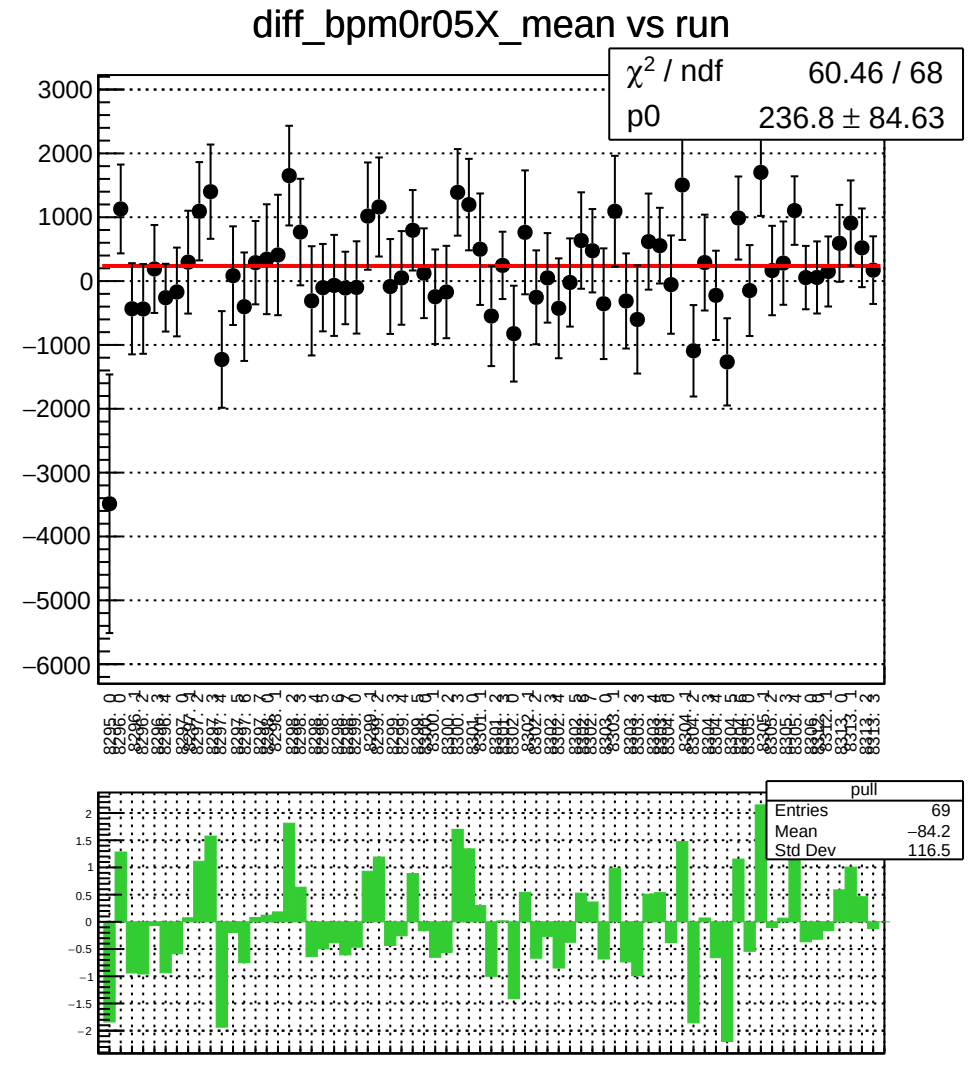

diff_bpm0r03X_mean vs run
χ² / ndf 61.23 / 68
p0 −157.1± 69.2
pull
Entries 69
Mean −93.48
Std Dev 127.6
pull1D
Entries 69
Mean 0.01787
Std Dev 0.9418

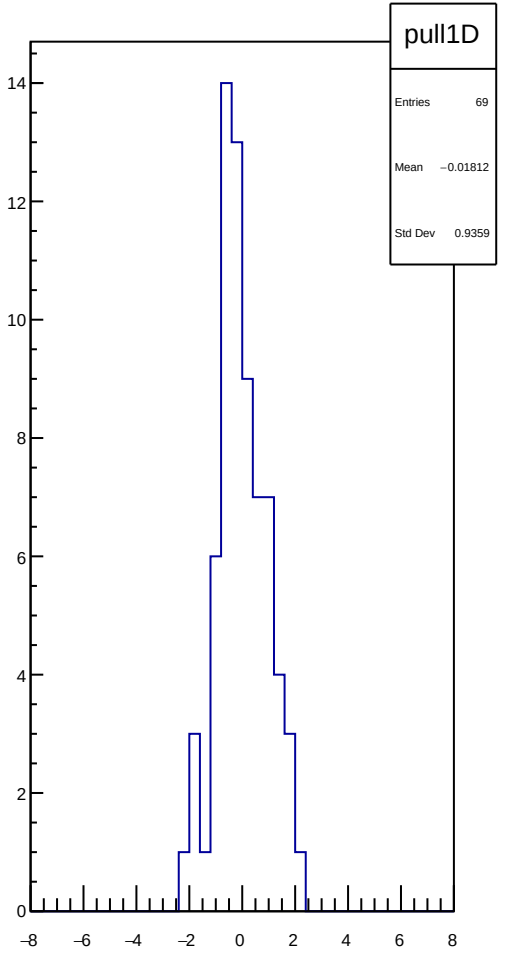

diff_bpm0r03X_rms vs run
χ² / ndf 1.242e+04 / 68
p0 5.68e+04 ± 48.93
75000
70000
65000
60000
55000
50000
45000

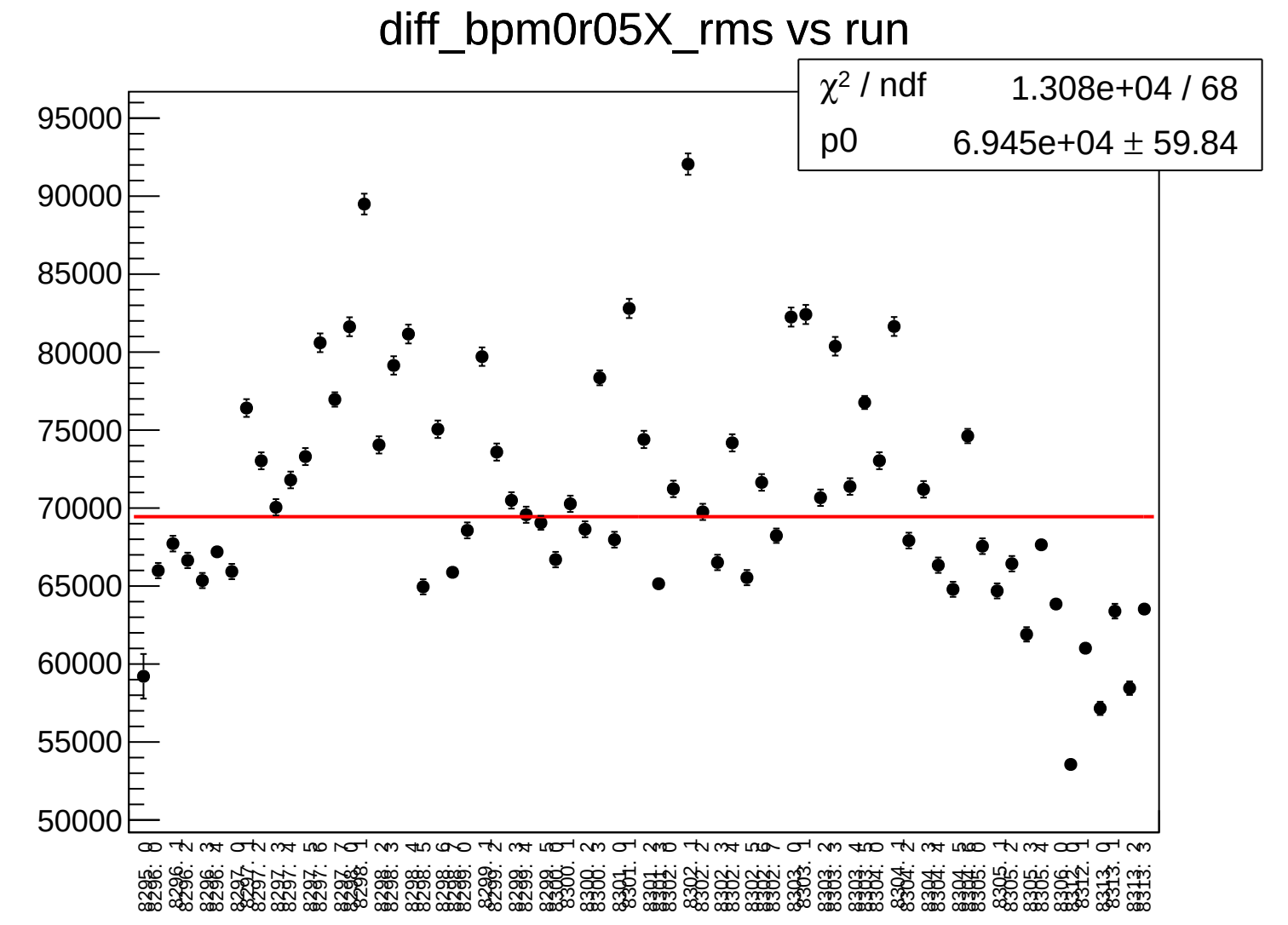

diff_bpm0r03Y_mean vs run
χ² / ndf 103.8 / 68
p0 −5.291 ± 1.512
pull
Entries 69
Mean 751.1
Std Dev 719.9

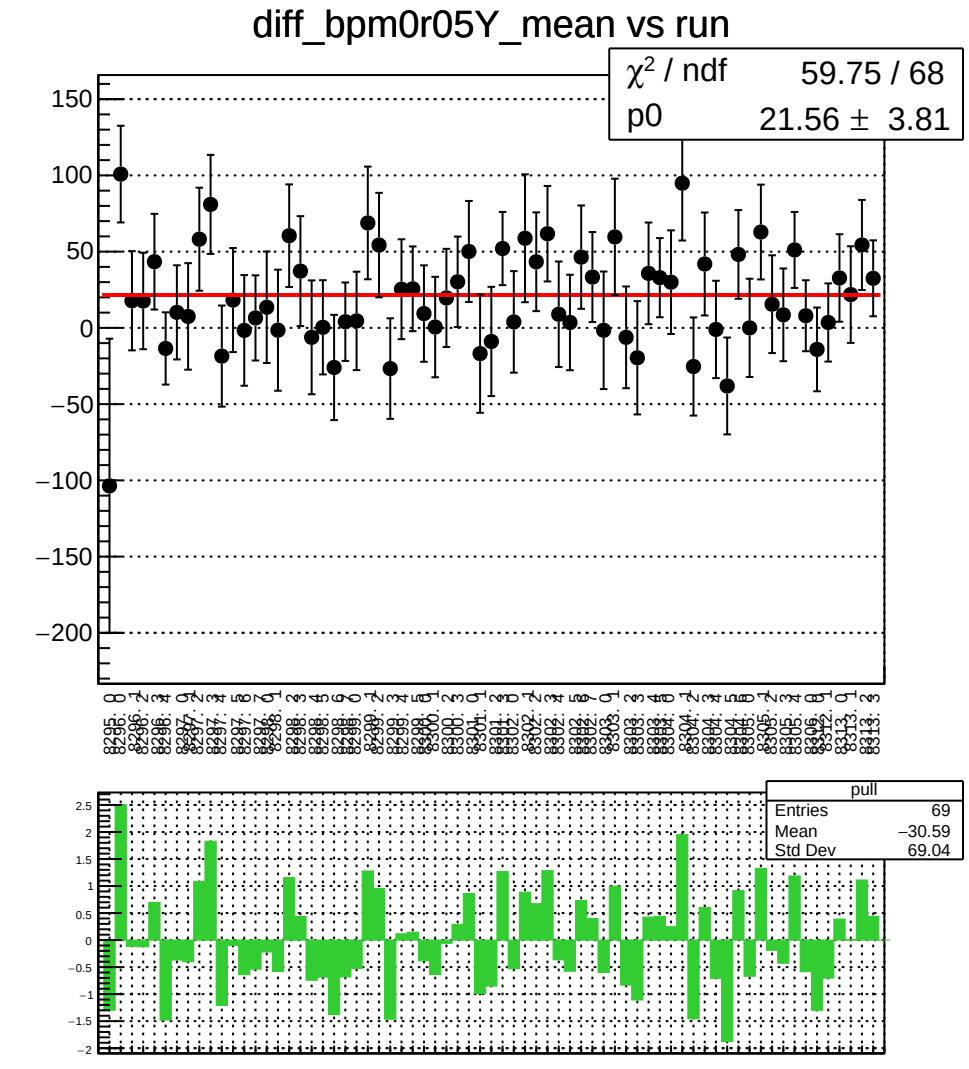

pull1D
Entries 69
Mean −0.001218
Std Dev 1.227

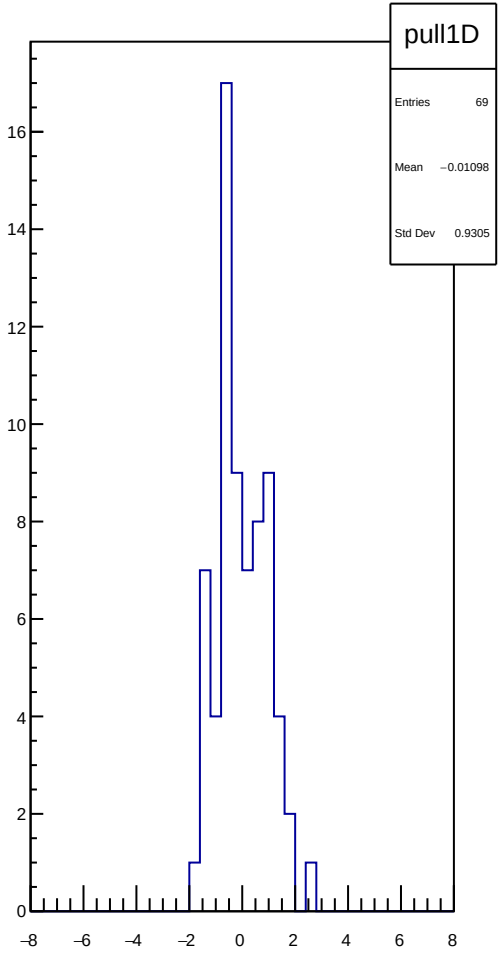

diff_bpm0r03Y_rms vs run
χ² / ndf 1853 / 68
p0 1246 ± 1.069
1400
1350
1300
1250
1200
1150

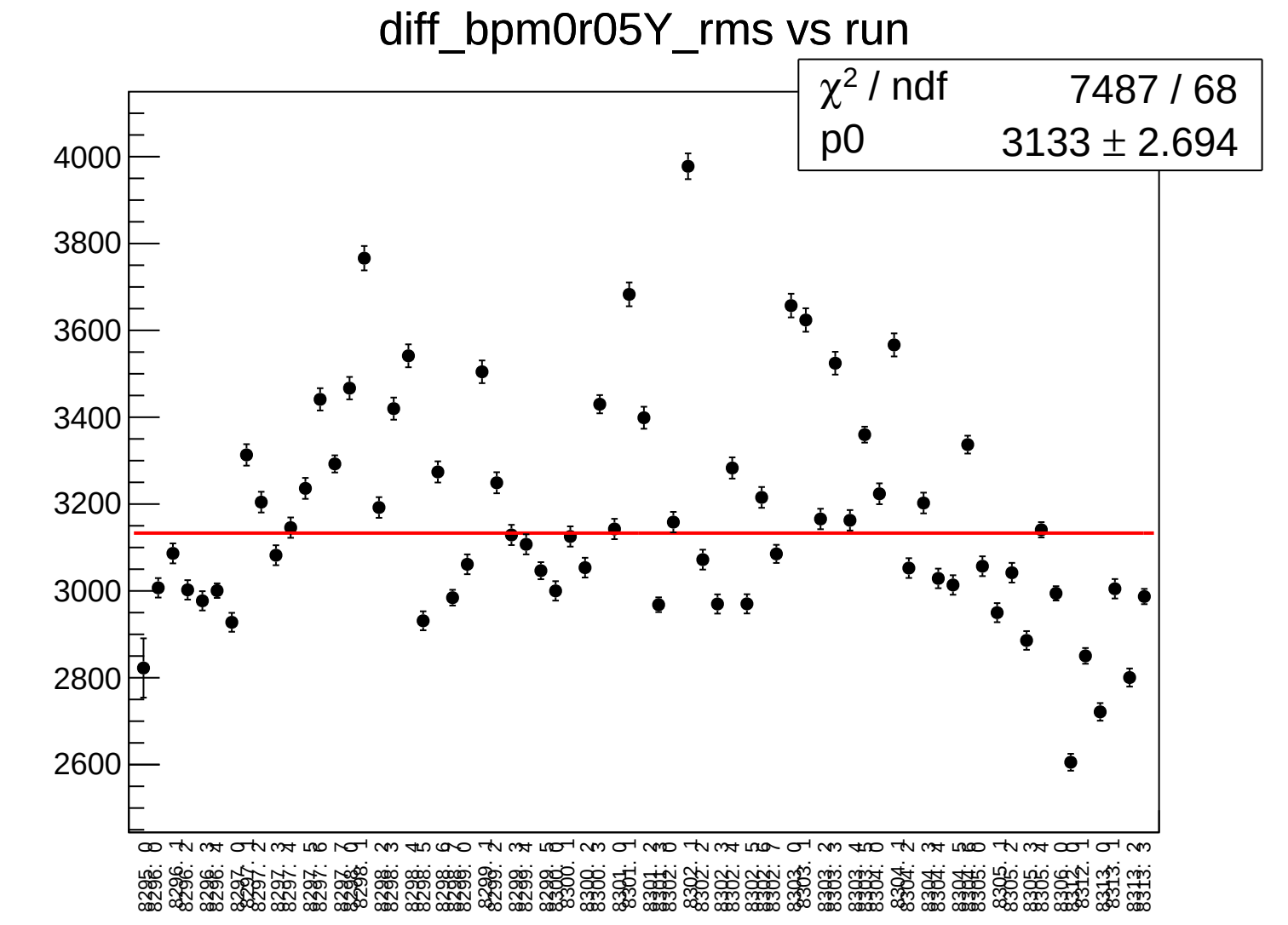

diff_bpm0r05X_mean vs run
χ² / ndf 60.46 / 68
p0 236.8 ± 84.63
pull
Entries 69
Mean −84.2
Std Dev 116.5

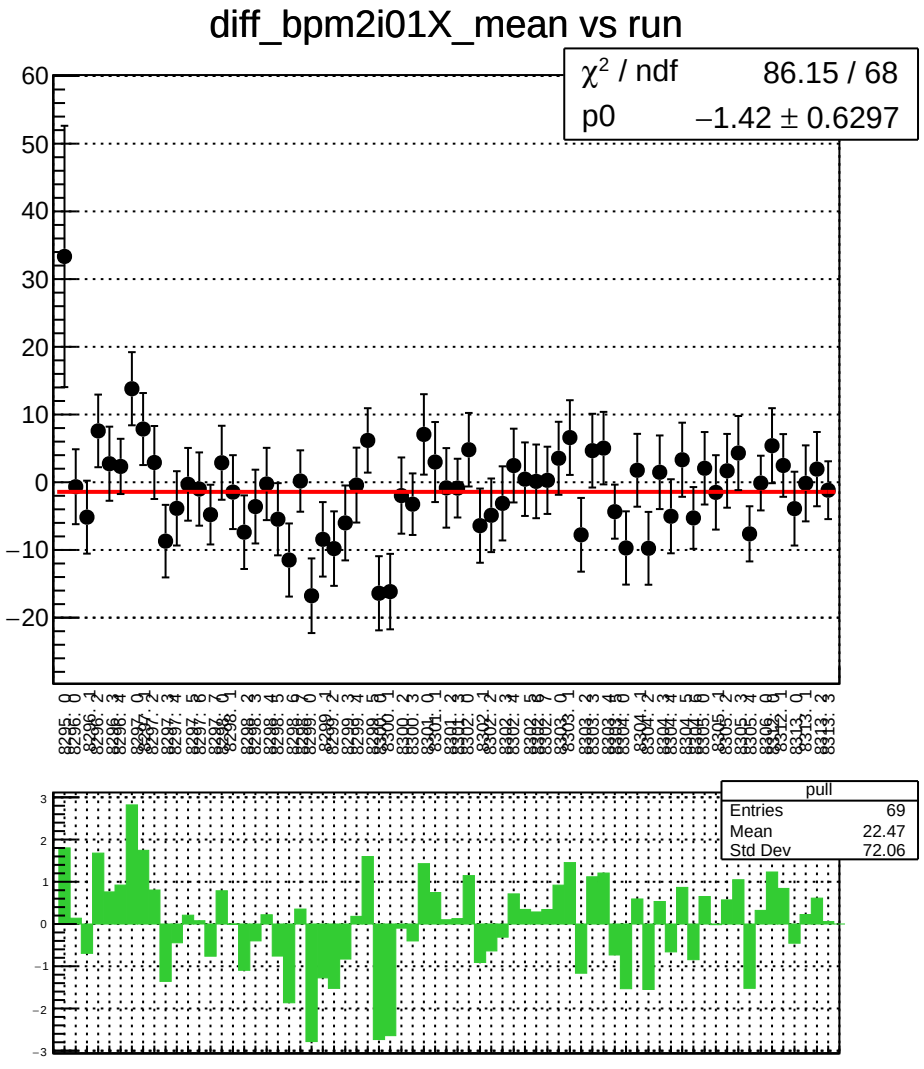

pull1D
Entries 69
Mean −0.01812
Std Dev 0.9359

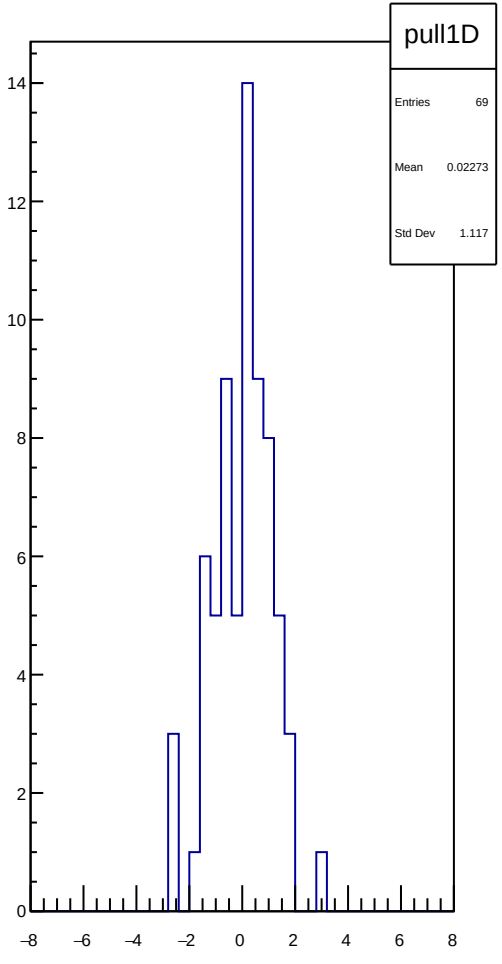

diff_bpm0r05X_rms vs run
χ² / ndf 1.308e+04 / 68
p0 6.945e+04 ± 59.84
95000
90000
85000
80000
75000
70000
65000
60000
55000
50000

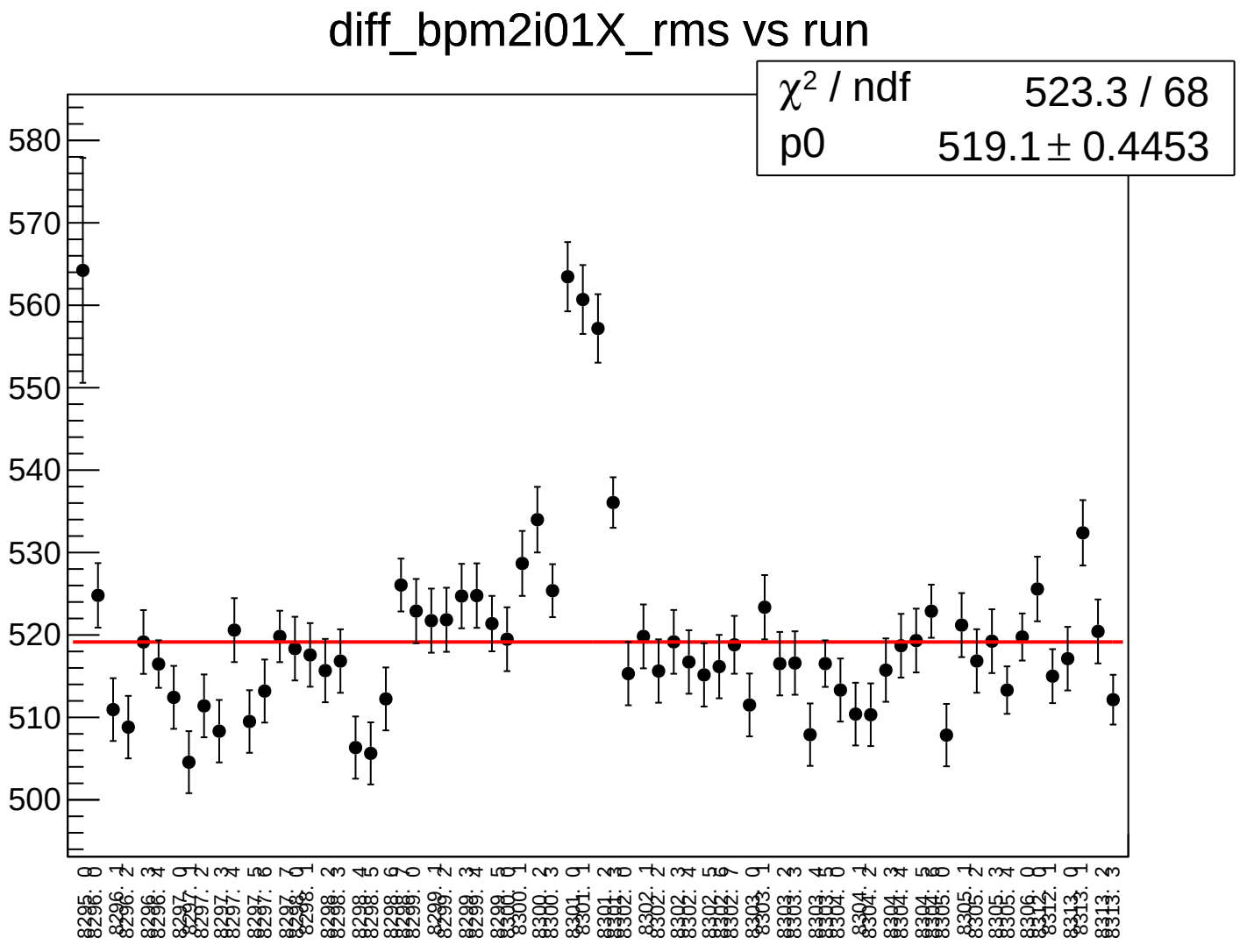

diff_bpm0r05Y_mean vs run
χ² / ndf 59.75 / 68
p0 21.56 ± 3.81
pull
Entries 69
Mean −30.59
Std Dev 69.04

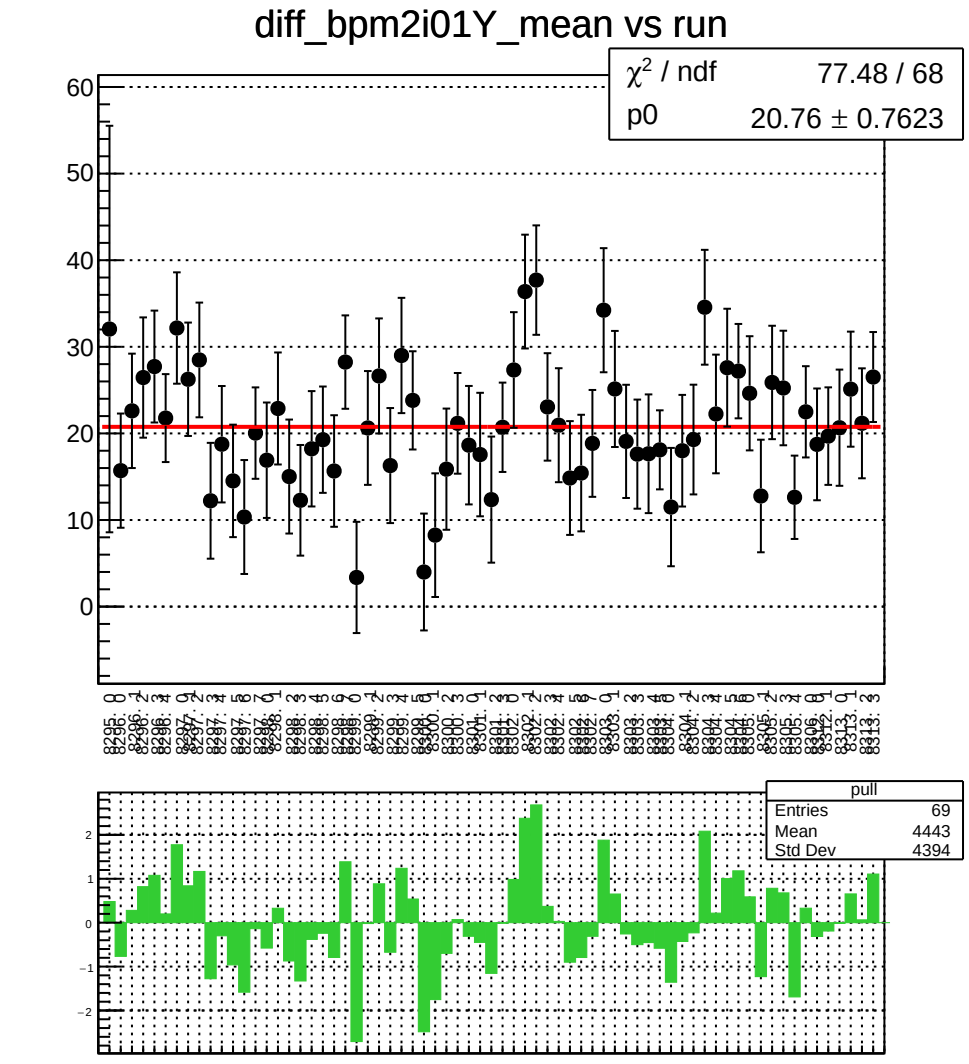

pull1D
Entries 69
Mean −0.01098
Std Dev 0.9305

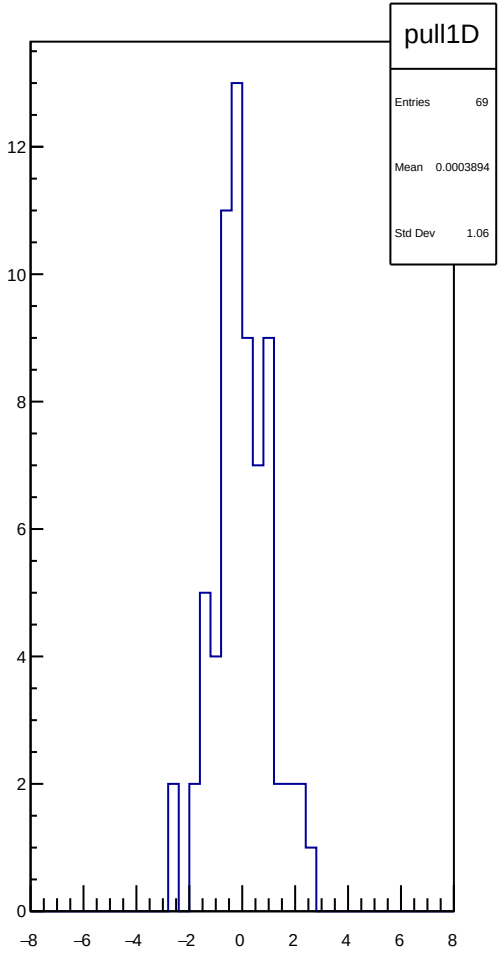

diff_bpm0r05Y_rms vs run
χ² / ndf 7487 / 68
p0 3133 ± 2.694
4000
3800
3600
3400
3200
3000
2800
2600

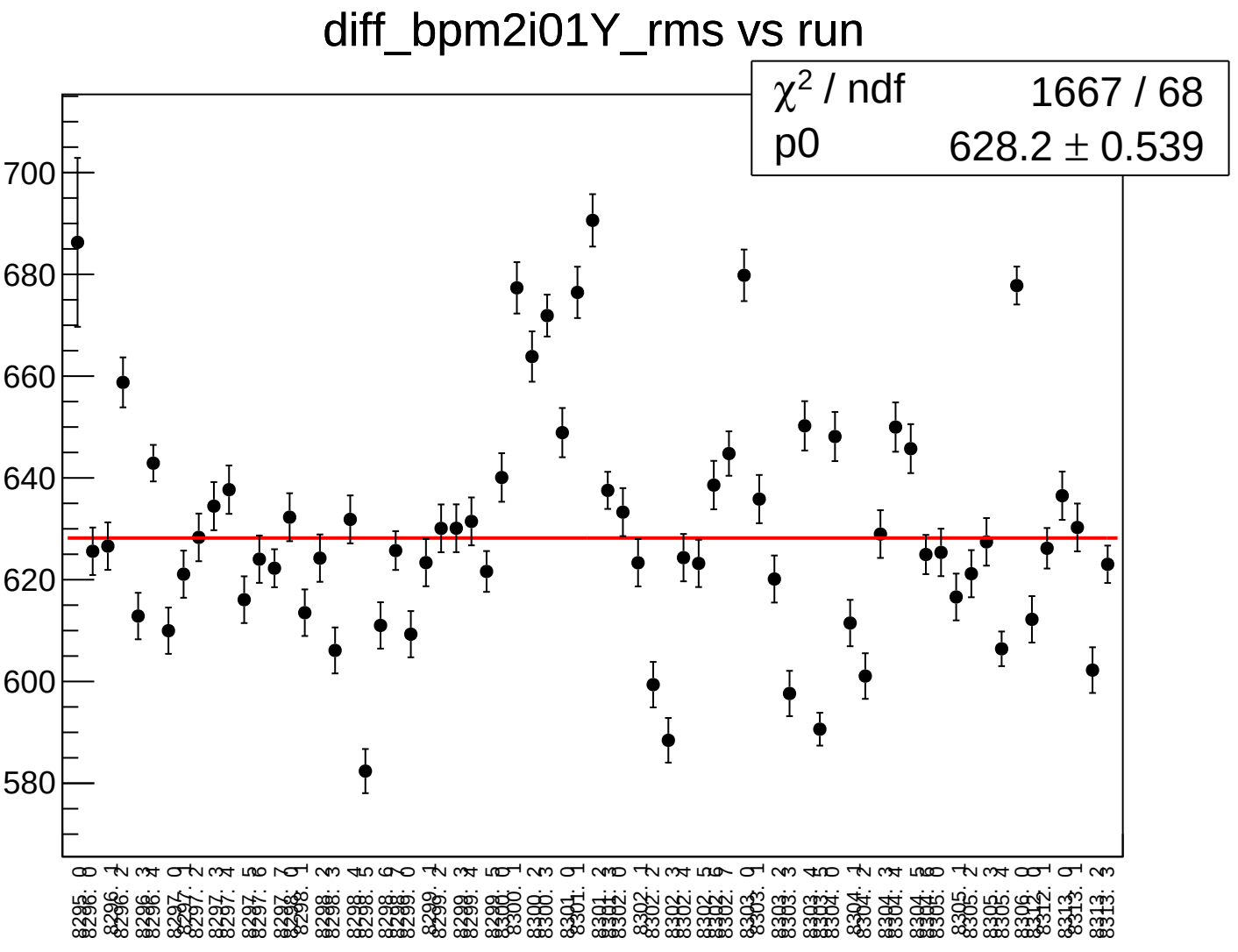

diff_bpm2i01X_mean vs run
χ^2 / ndf 86.15 / 68
p0 −1.42 ± 0.6297
pull
Entries 69
Mean 22.47
Std Dev 72.06

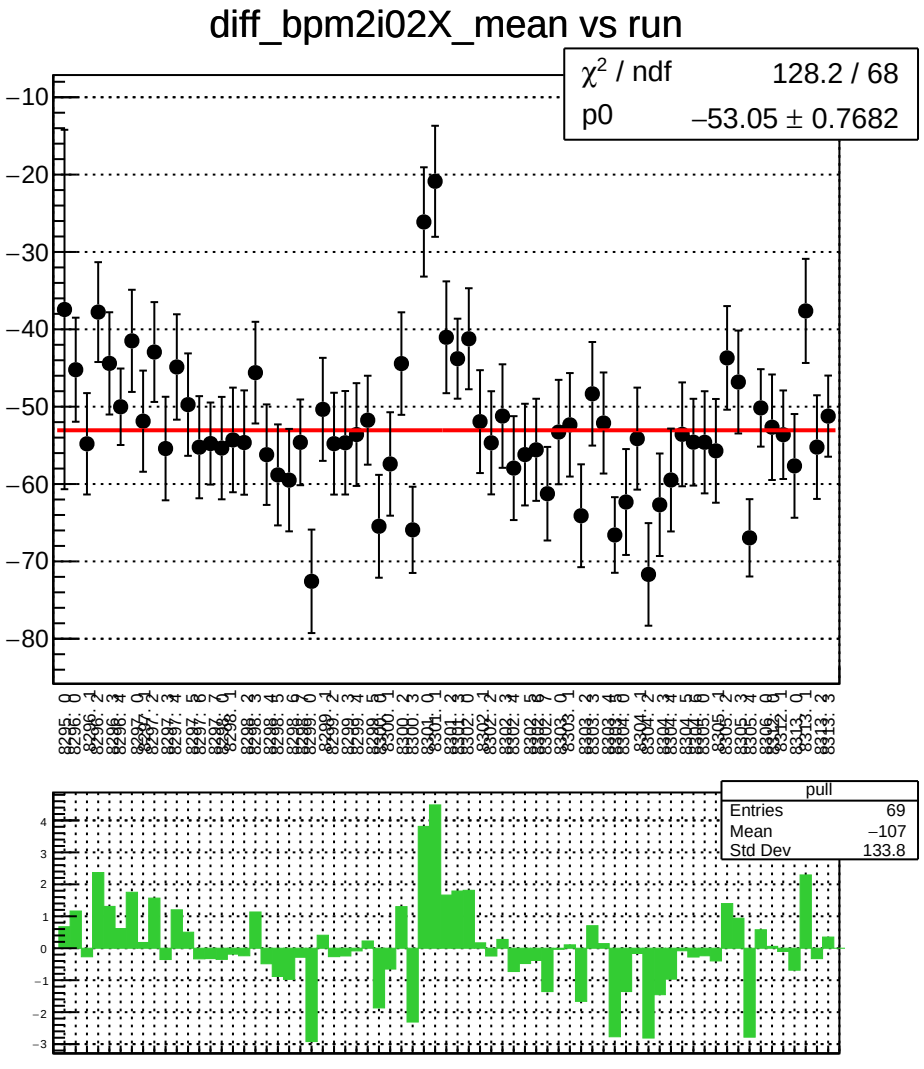

pull1D
Entries 69
Mean 0.02273
Std Dev 1.117

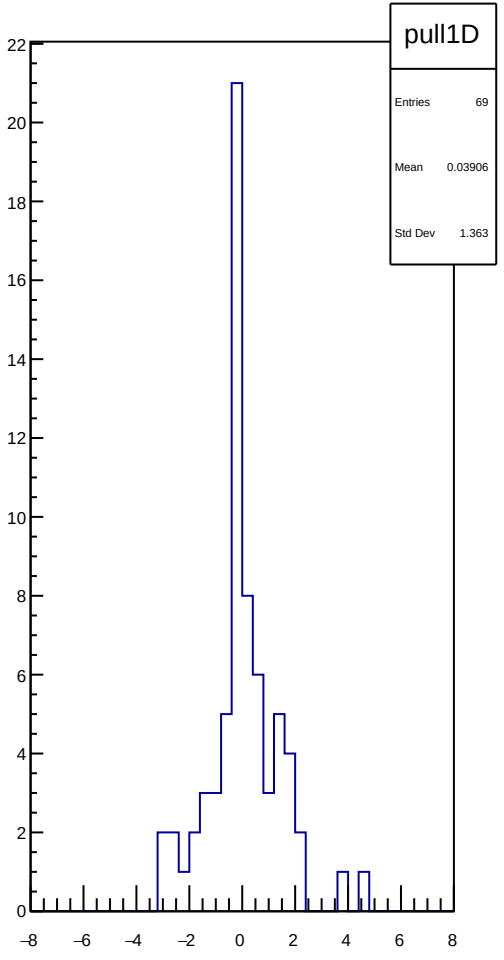

diff_bpm2i01X_rms vs run
χ² / ndf 523.3 / 68
p0 519.1 ± 0.4453
580
570
560
550
540
530
520
510
500

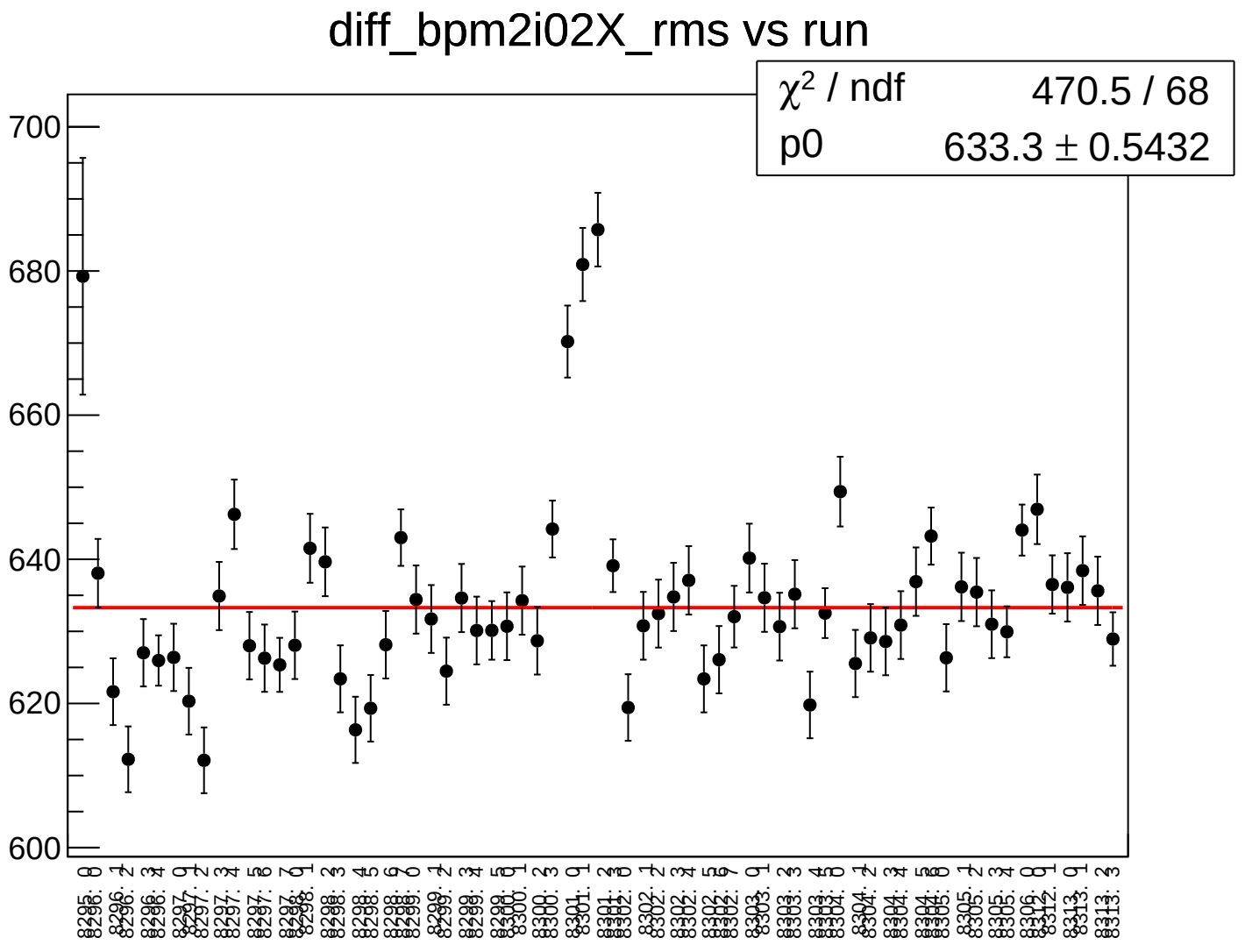

diff_bpm2i01Y_mean vs run
χ² / ndf 77.48 / 68
p0 20.76 ± 0.7623
pull
Entries 69
Mean 4443
Std Dev 4394

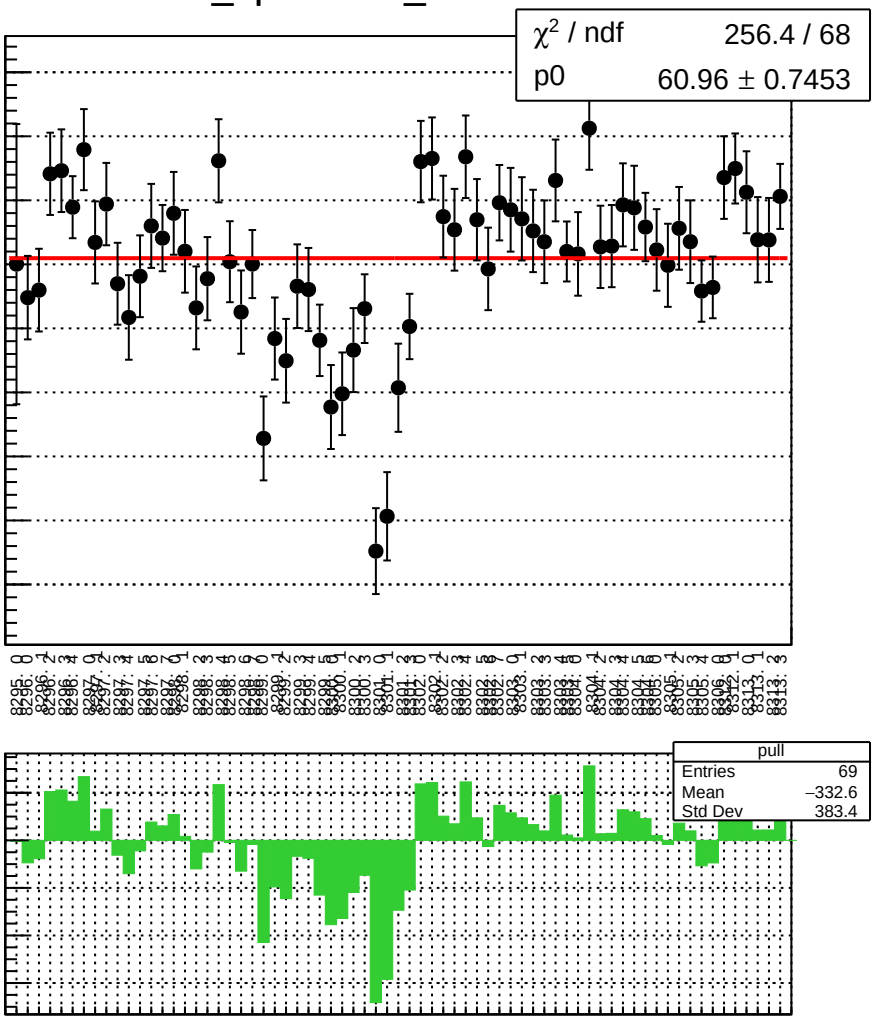

pull1D
Entries 69
Mean 0.0003894
Std Dev 1.06

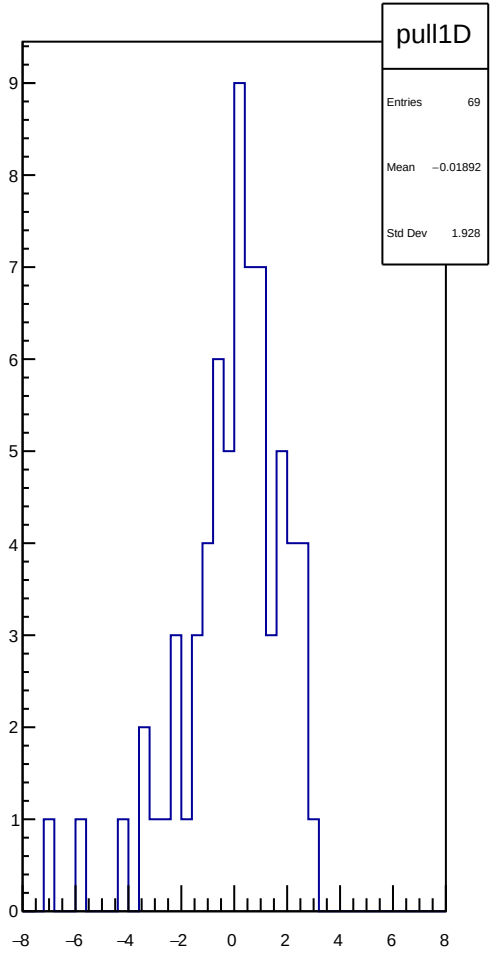

diff_bpm2i01Y_rms vs run
χ² / ndf 1667 / 68
p0 628.2 ± 0.539
700
680
660
640
620
600
580

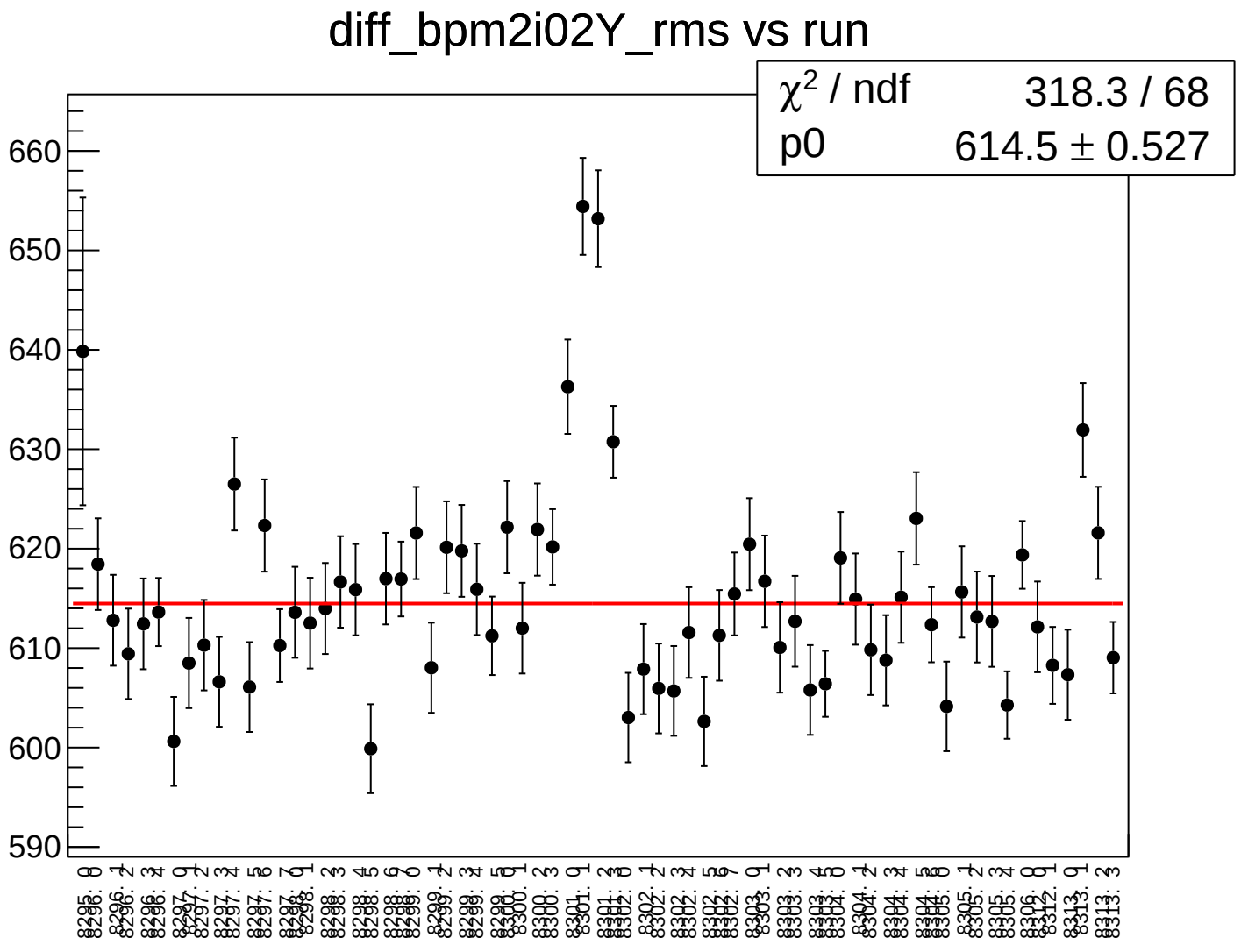

diff_bpm2i02X_mean vs run
χ² / ndf 128.2 / 68
p0 −53.05 ± 0.7682
pull
Entries 69
Mean −107
Std Dev 133.8

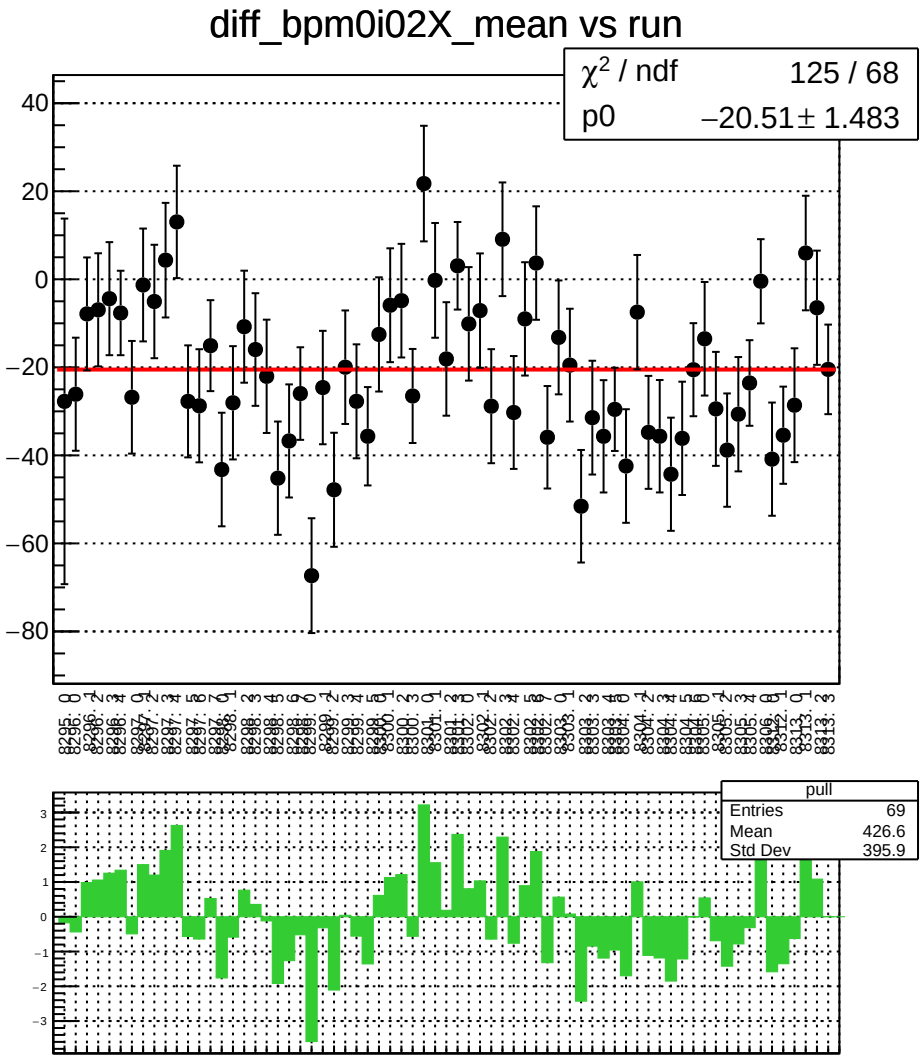

pull1D
Entries 69
Mean 0.03906
Std Dev 1.363

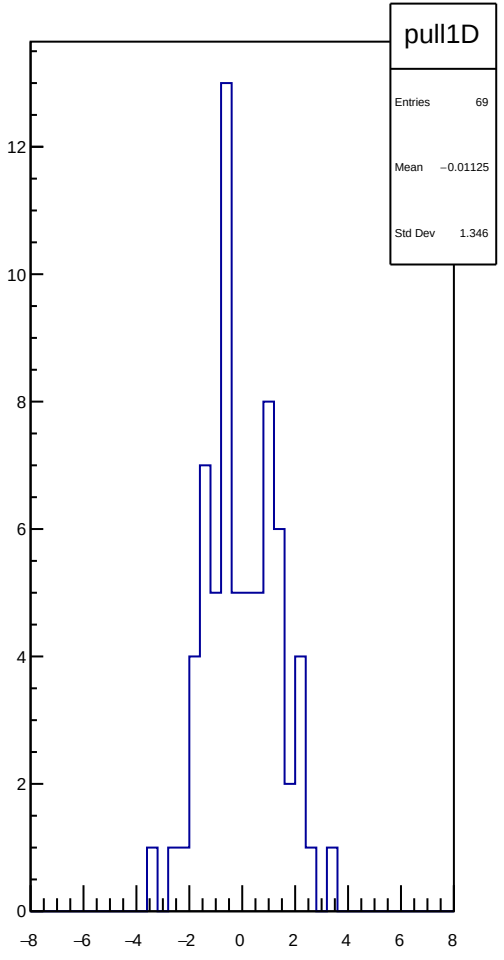

diff_bpm2i02X_rms vs run
χ² / ndf 470.5 / 68
p0 633.3 ± 0.5432
700
680
660
640
620
600

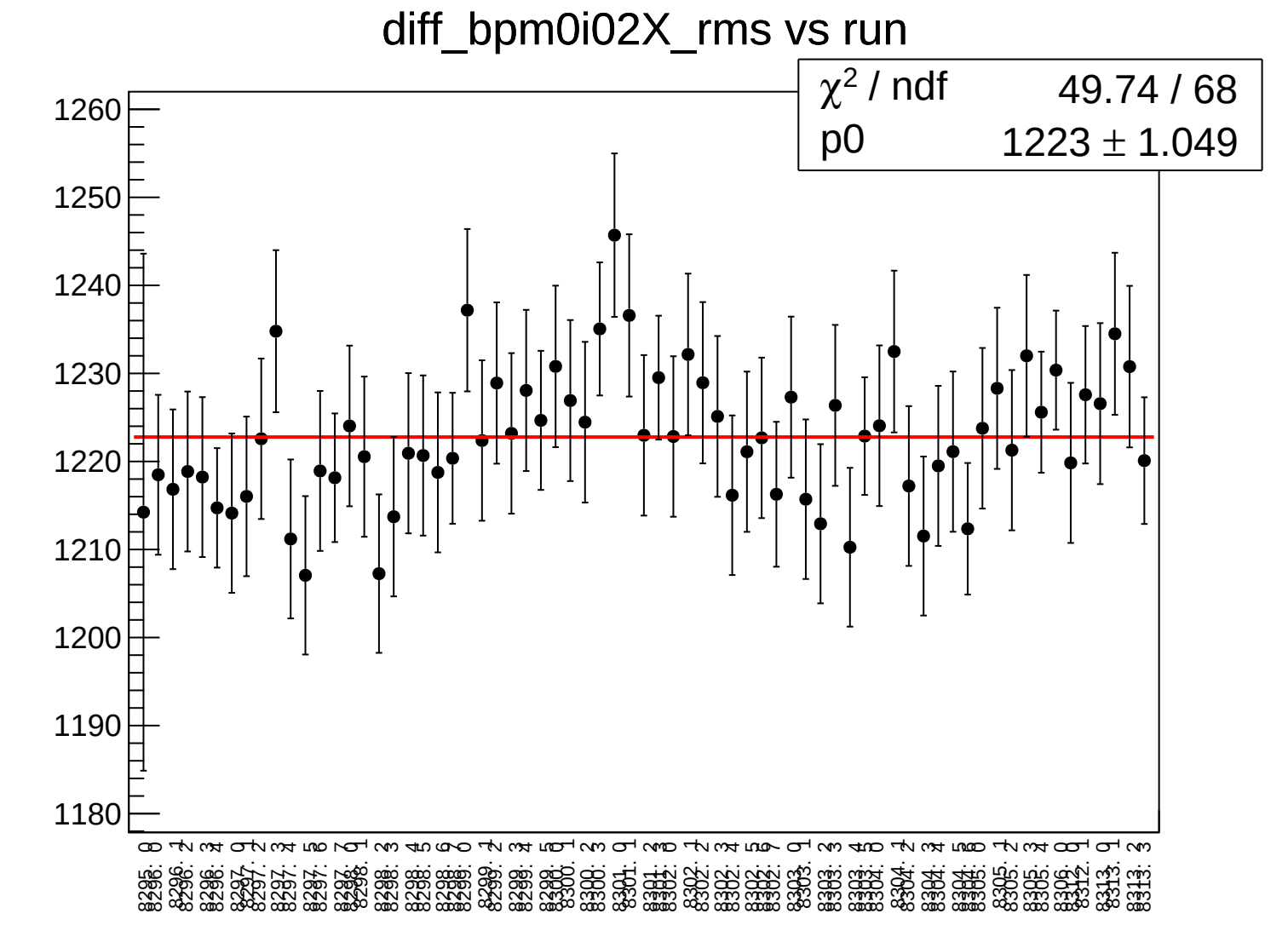

diff_bpm2i02Y_mean vs run
χ² / ndf 256.4 / 68
p0 60.96 ± 0.7453
pull
Entries 69
Mean −332.6
Std Dev 383.4

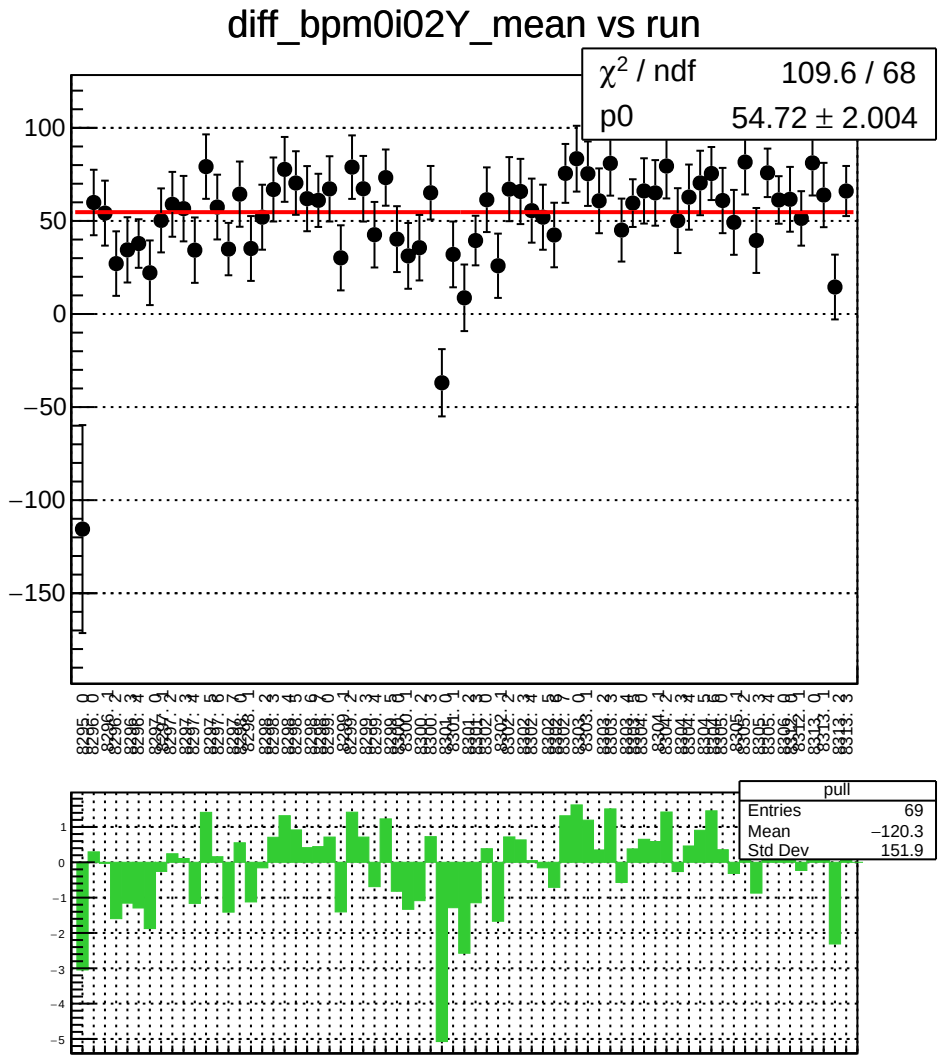

pull1D
Entries 69
Mean −0.01892
Std Dev 1.928

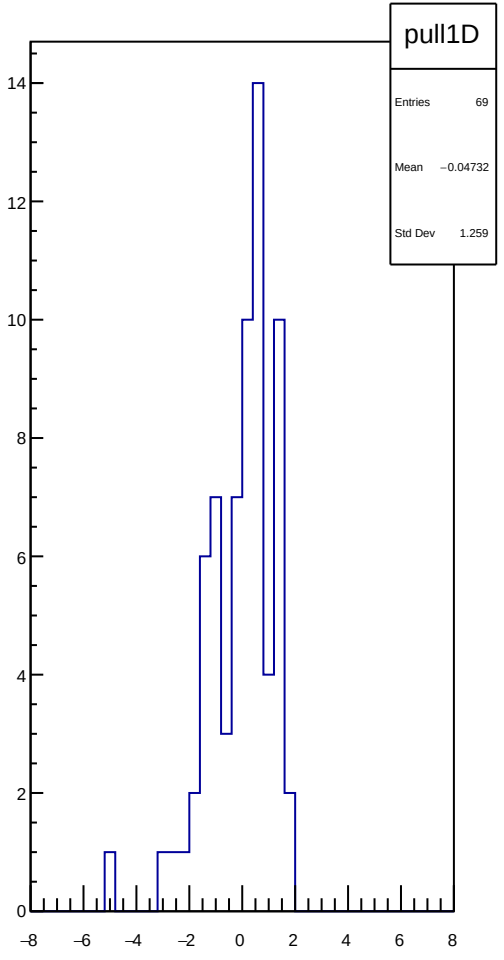

diff_bpm2i02Y_rms vs run
χ² / ndf 318.3 / 68
p0 614.5 ± 0.527
660
650
640
630
620
610
600
590

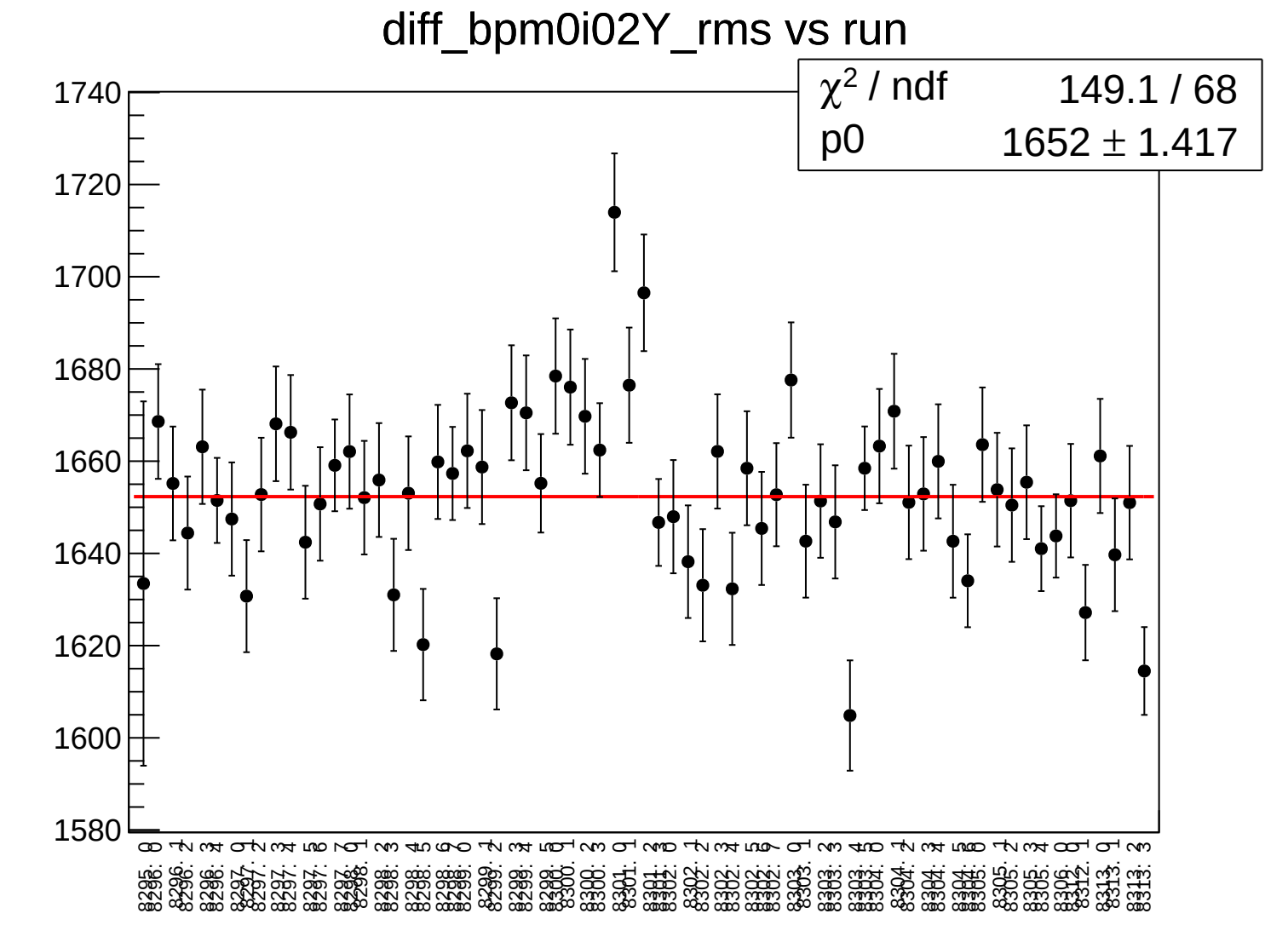

diff_bpm0i02X_mean vs run
χ² / ndf 125 / 68
p0 −20.51 ± 1.483
pull
Entries 69
Mean 426.6
Std Dev 395.9

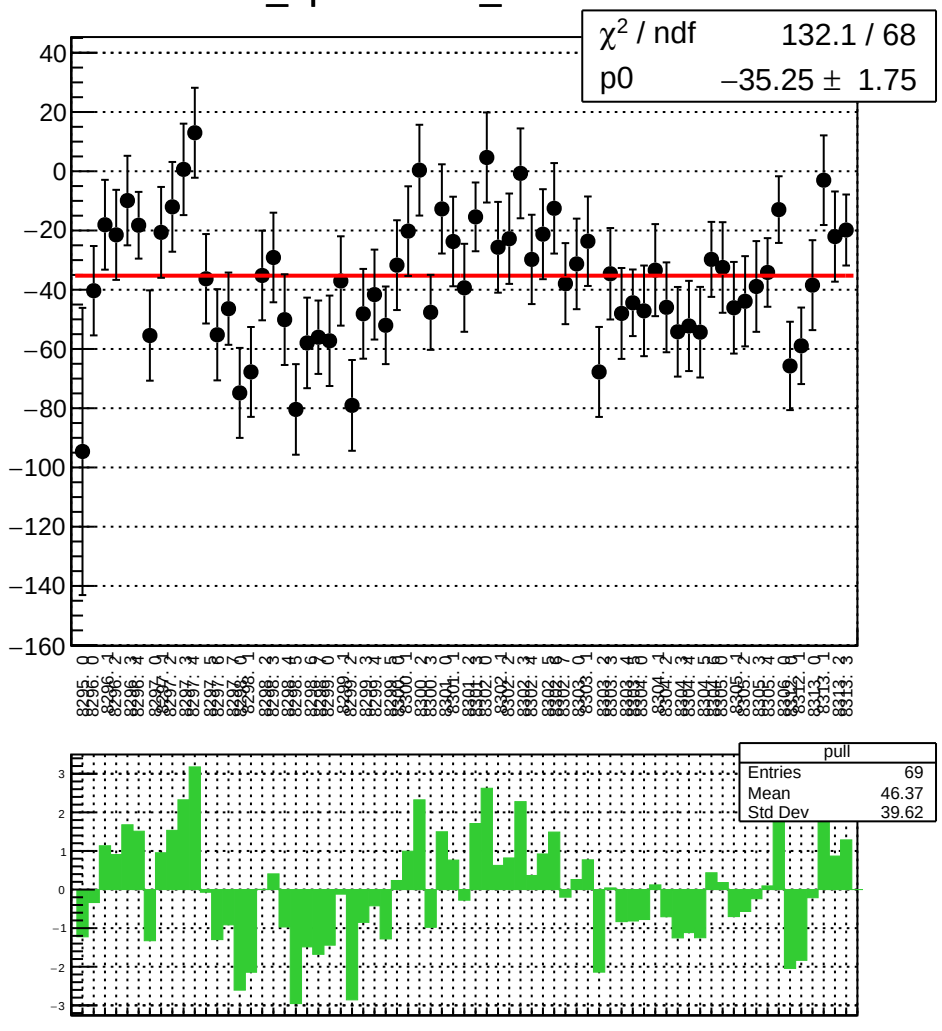

pull1D
Entries 69
Mean −0.01125
Std Dev 1.346

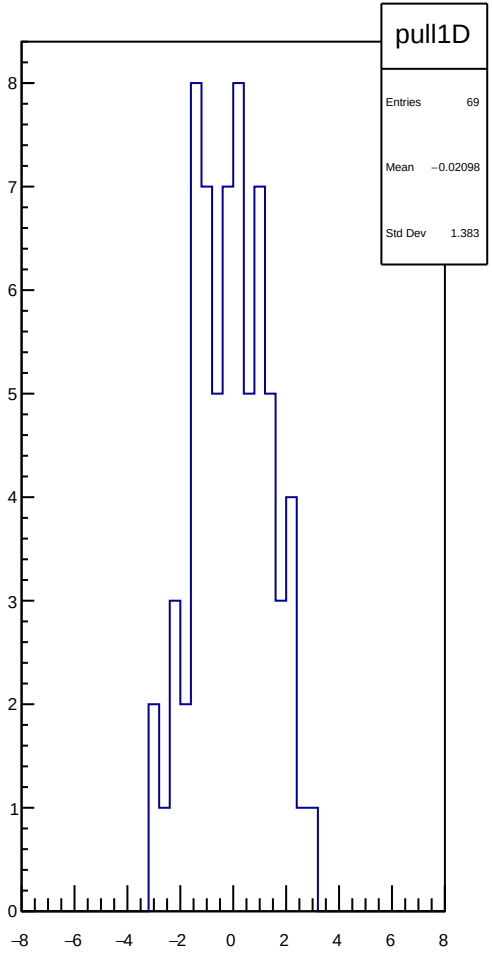

diff_bpm0i02X_rms vs run
χ² / ndf 49.74 / 68
p0 1223 ± 1.049
1260
1250
1240
1230
1220
1210
1200
1190
1180

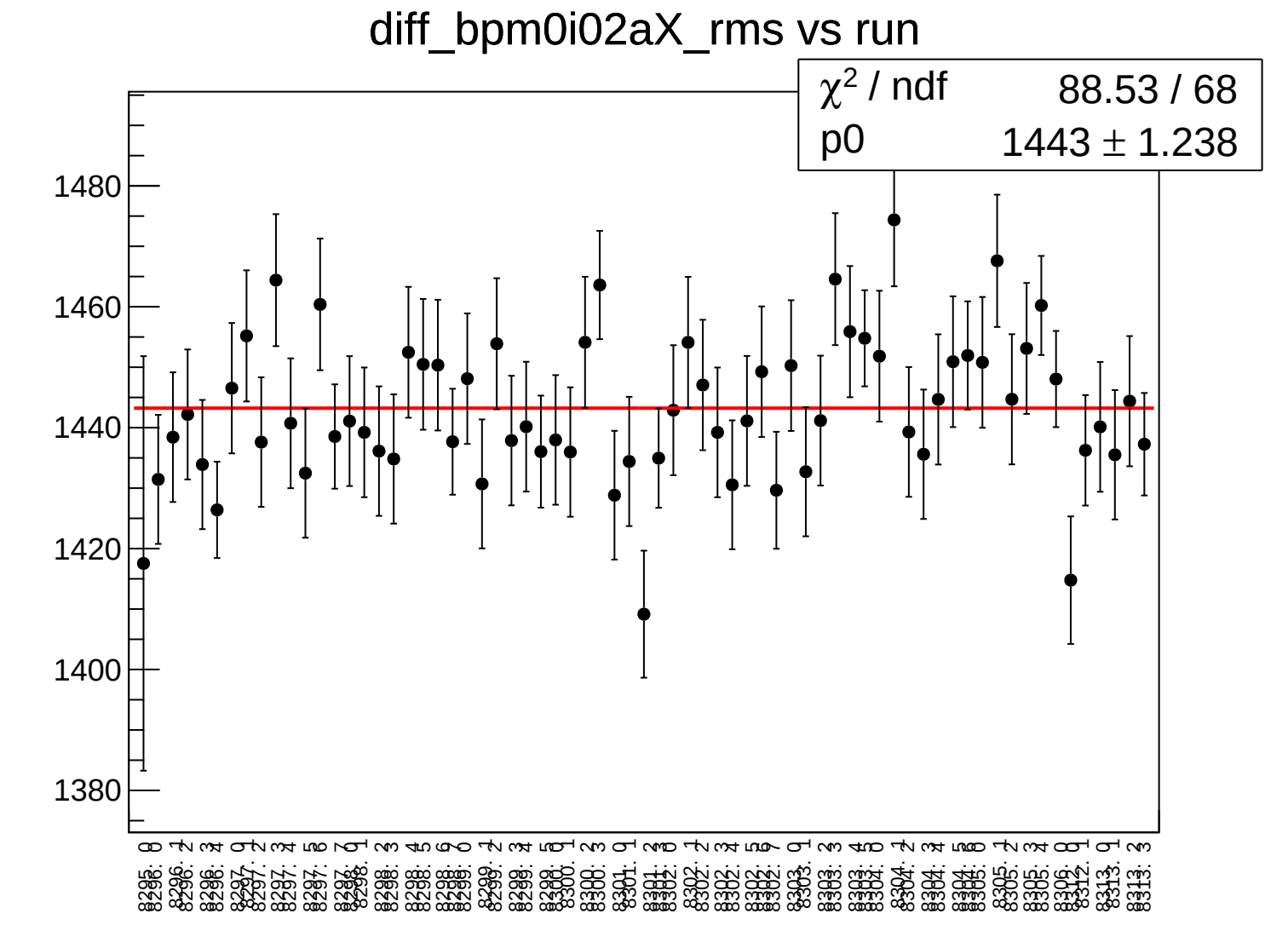

diff_bpm0i02Y_mean vs run
χ^2 / ndf 109.6 / 68
p0 54.72 ± 2.004
pull
Entries 69
Mean −120.3
Std Dev 151.9

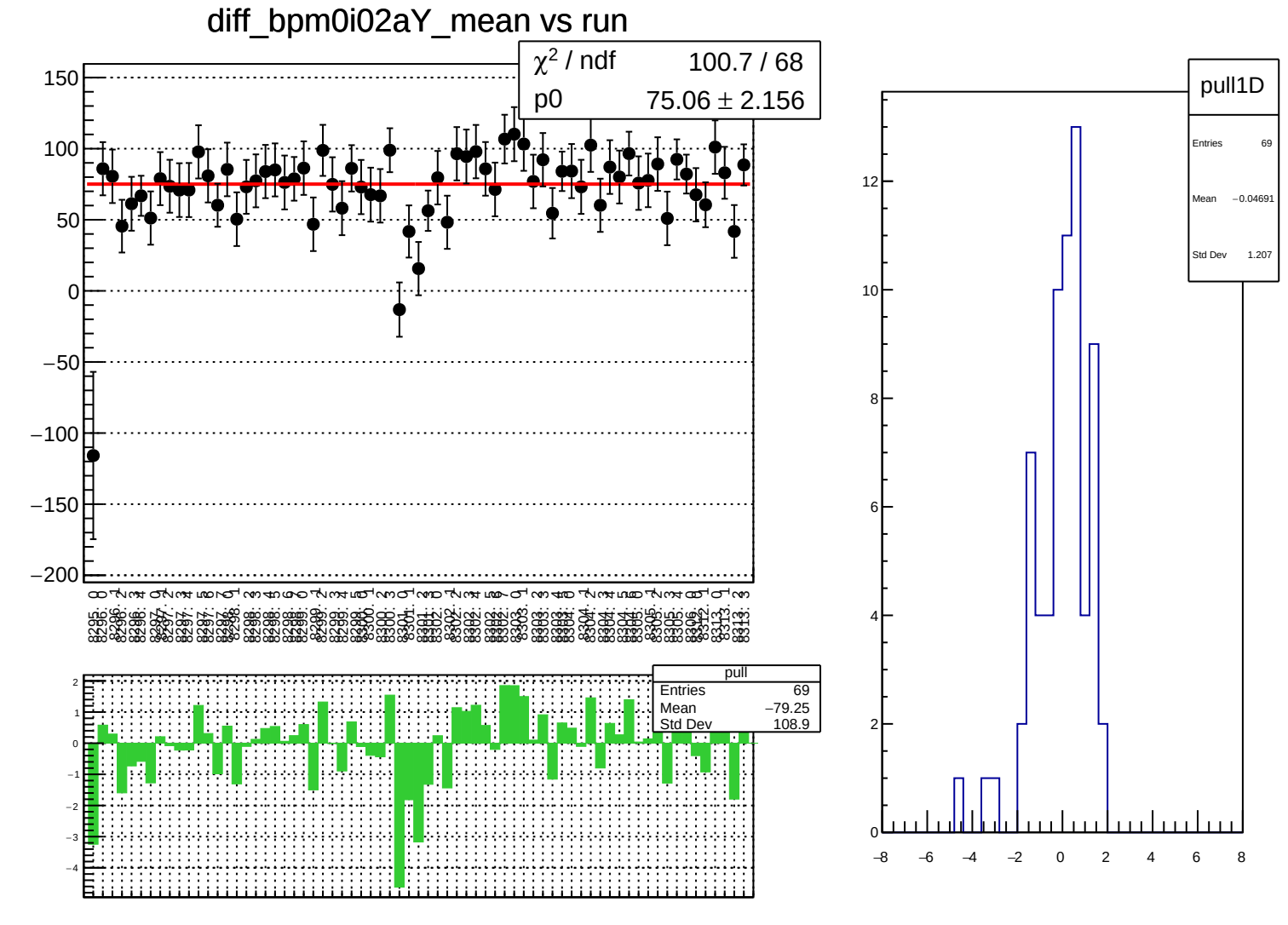

pull1D
Entries 69
Mean −0.04732
Std Dev 1.259

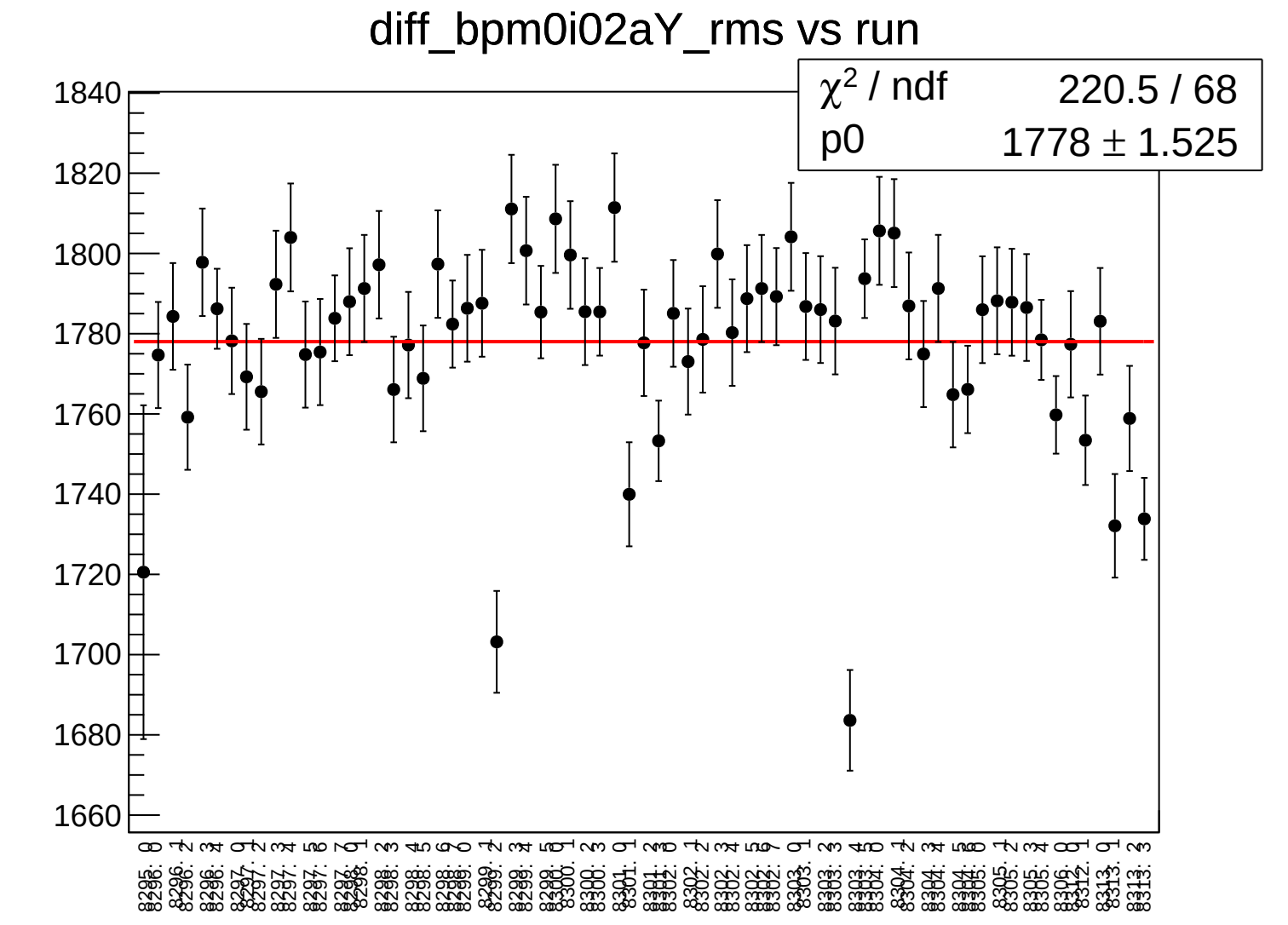

diff_bpm0i02Y_rms vs run
χ² / ndf 149.1 / 68
p0 1652 ± 1.417
1740
1720
1700
1680
1660
1640
1620
1600
1580

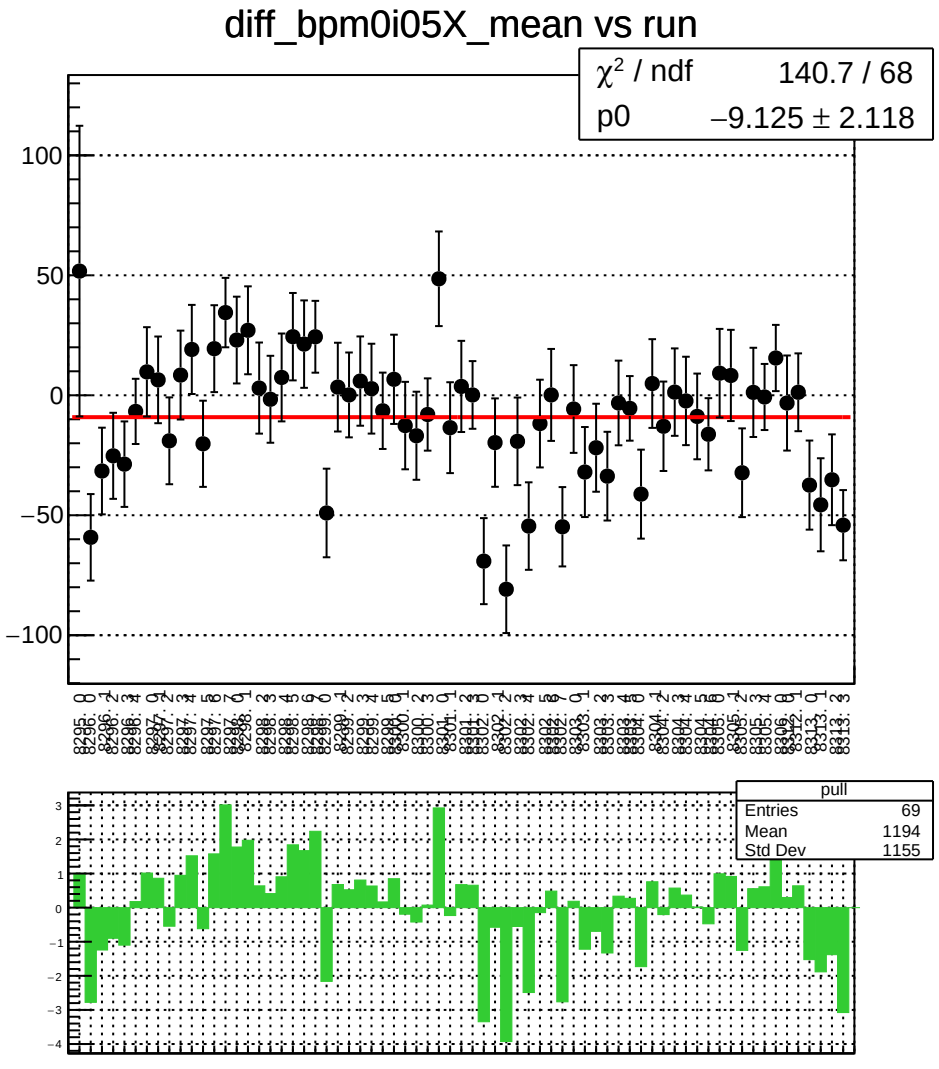

diff_bpm0i02aX_mean vs run
χ^2 / ndf 132.1 / 68
p0 −35.25 ± 1.75
pull
Entries 69
Mean 46.37
Std Dev 39.62

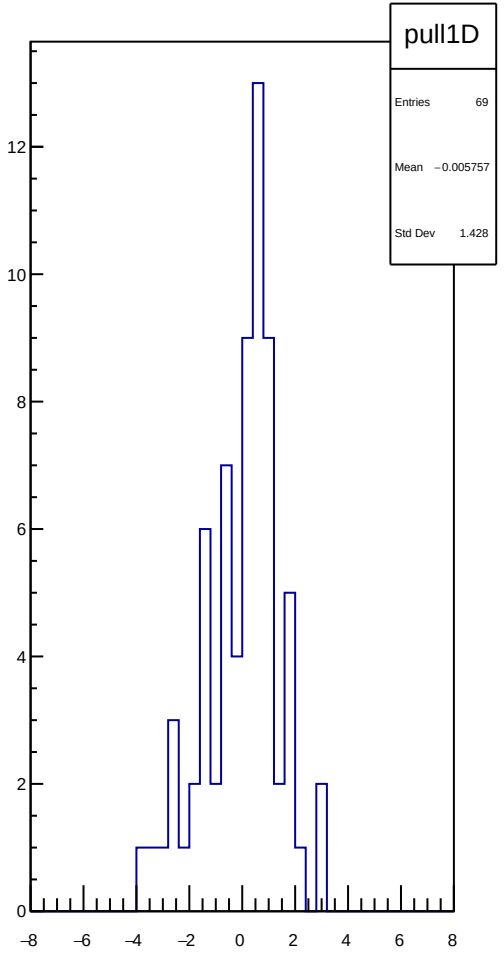

pull1D
Entries 69
Mean −0.02098
Std Dev 1.383

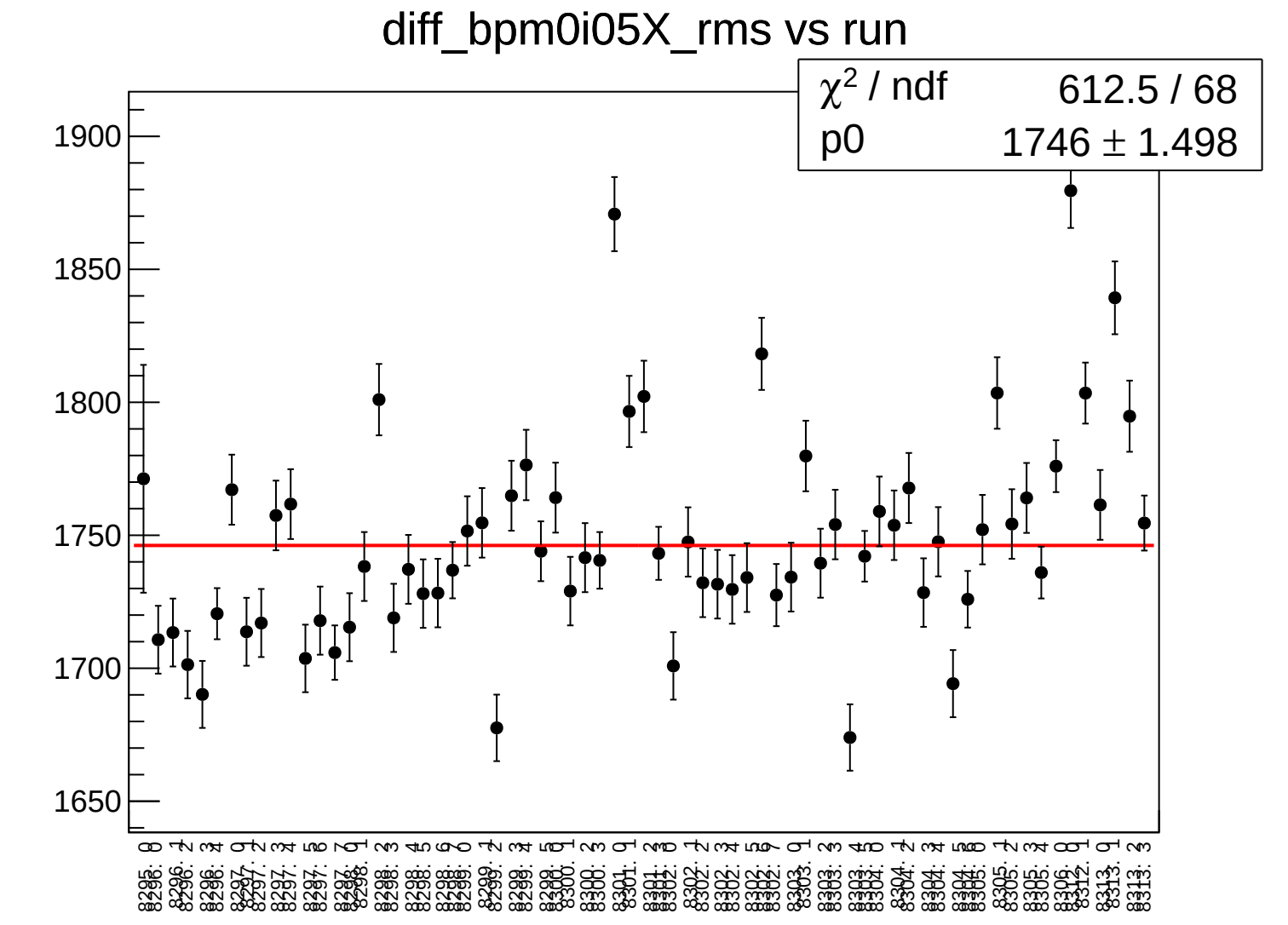

diff_bpm0i02aX_rms vs run
χ² / ndf 88.53 / 68
p0 1443 ± 1.238
1480
1460
1440
1420
1400
1380

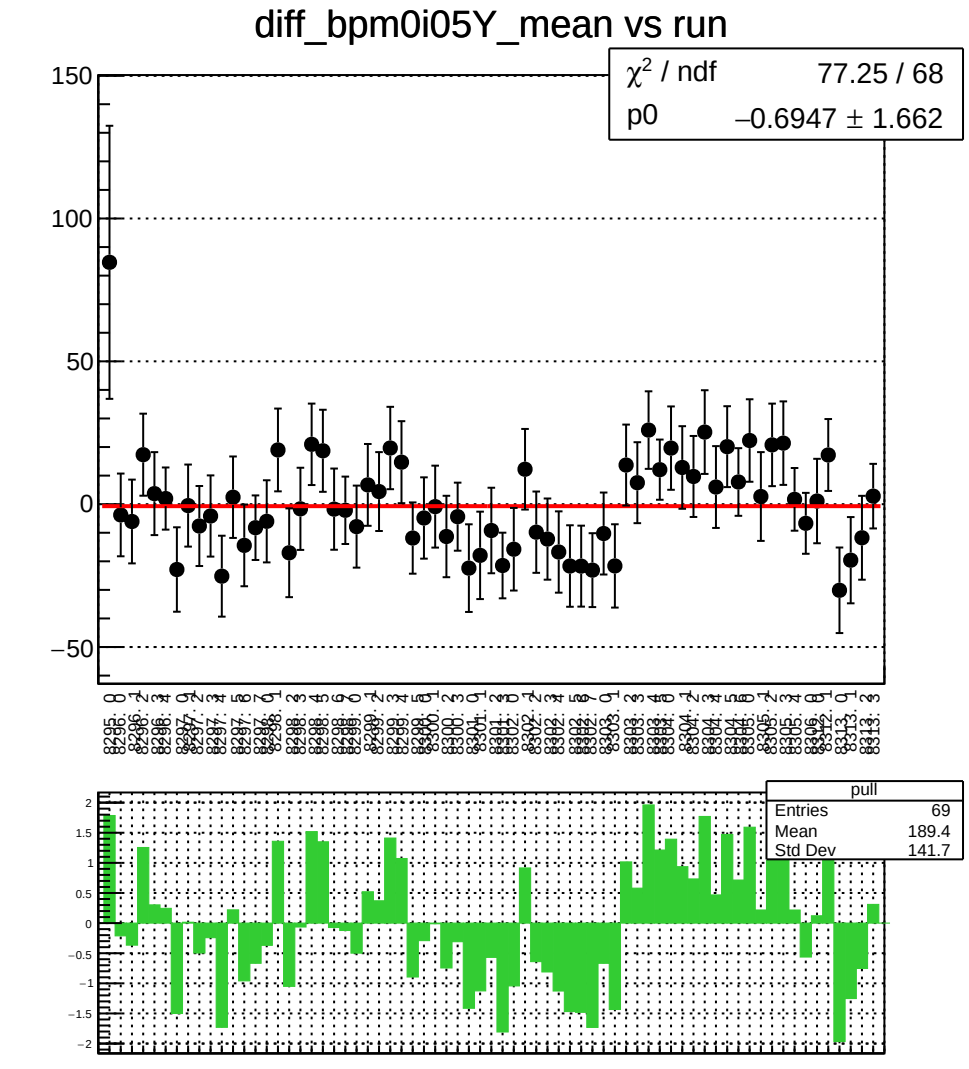

diff_bpm0i02aY_mean vs run
χ² / ndf 100.7 / 68
p0 75.06 ± 2.156
pull
Entries 69
Mean −79.25
Std Dev 108.9
pull1D
Entries 69
Mean −0.04691
Std Dev 1.207

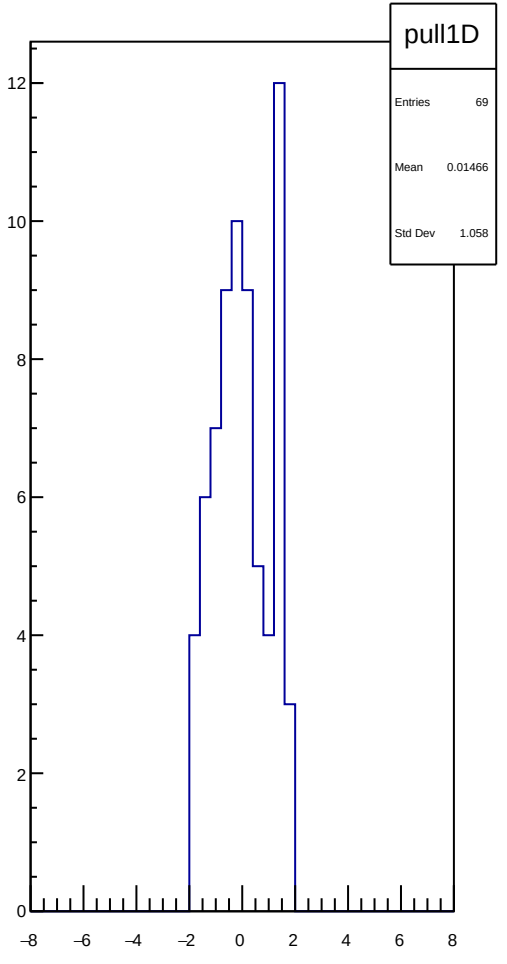

diff_bpm0i02aY_rms vs run
χ² / ndf 220.5 / 68
p0 1778 ± 1.525
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

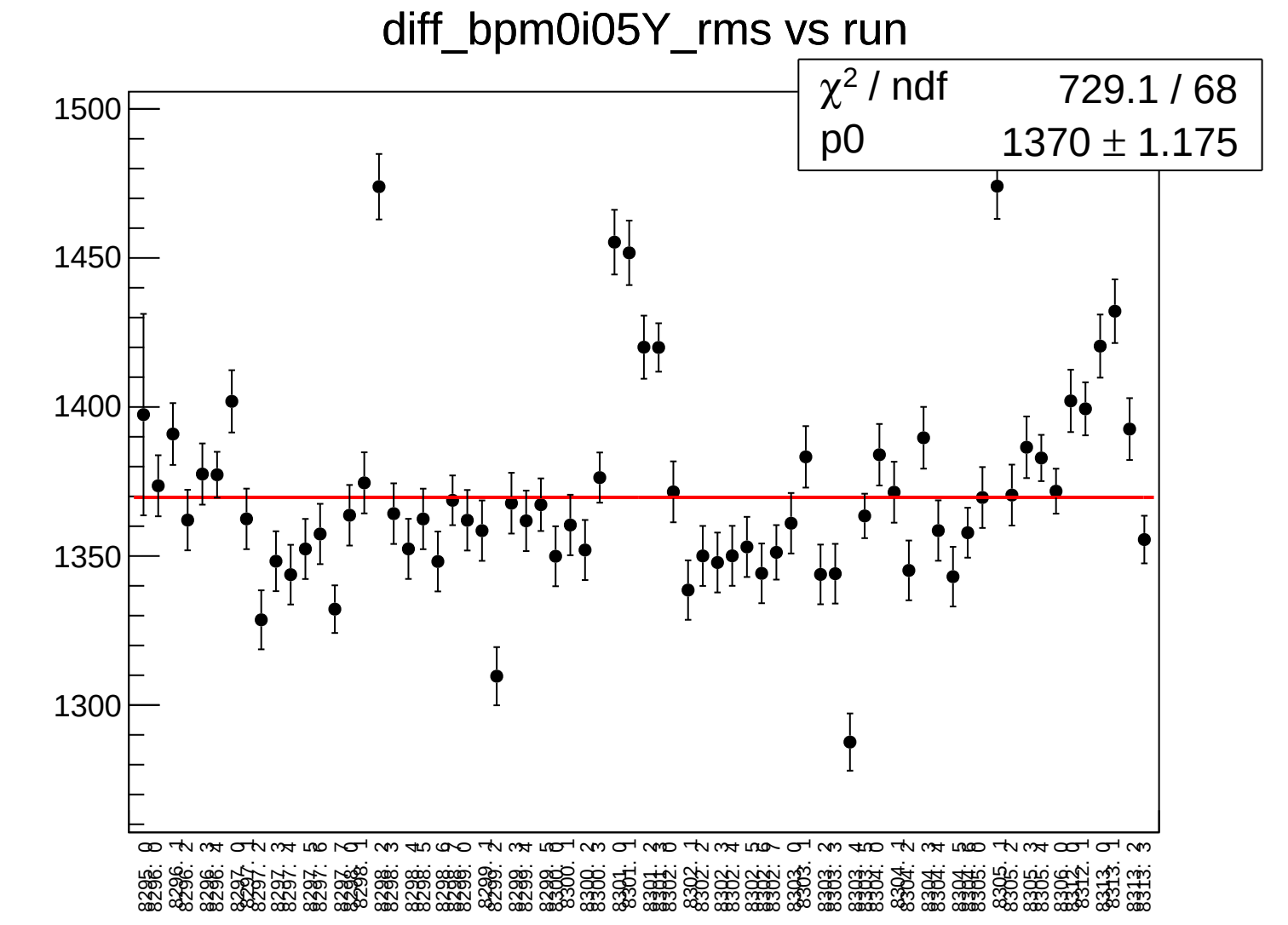

diff_bpm0i05X_mean vs run
χ² / ndf 140.7 / 68
p0 −9.125 ± 2.118
100
50
0
−50
−100
pull
Entries 69
Mean 1194
Std Dev 1155
3
2
1
0
−1
−2
−3
−4

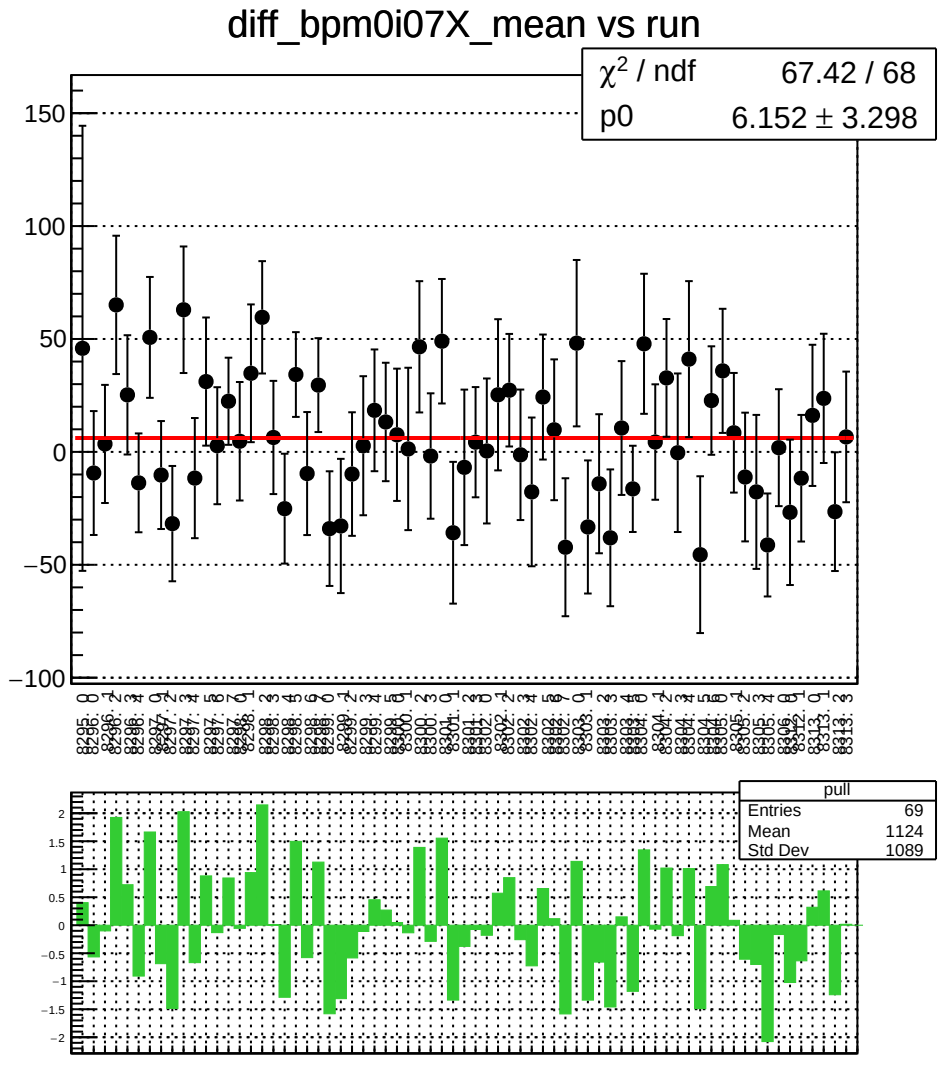

pull1D
Entries 69
Mean −0.005757
Std Dev 1.428
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

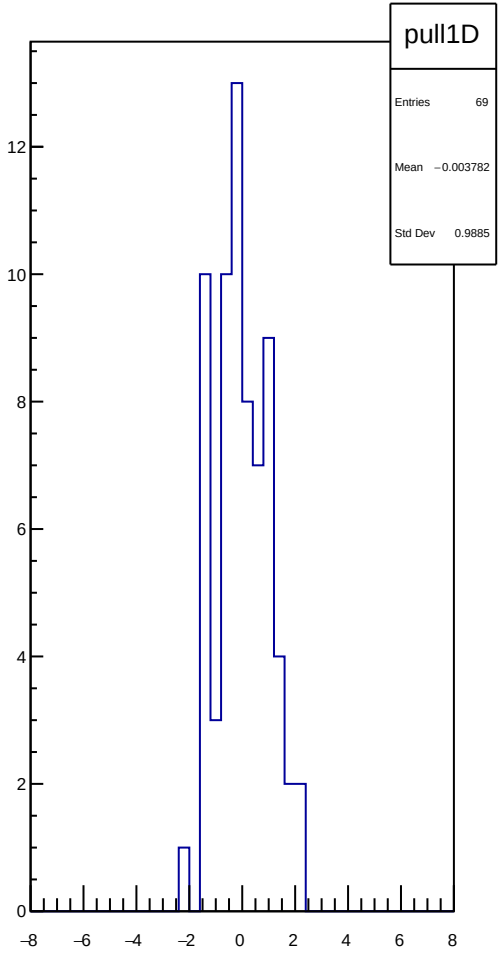

diff_bpm0i05X_rms vs run
χ² / ndf 612.5 / 68
p0 1746 ± 1.498
1900
1850
1800
1750
1700
1650

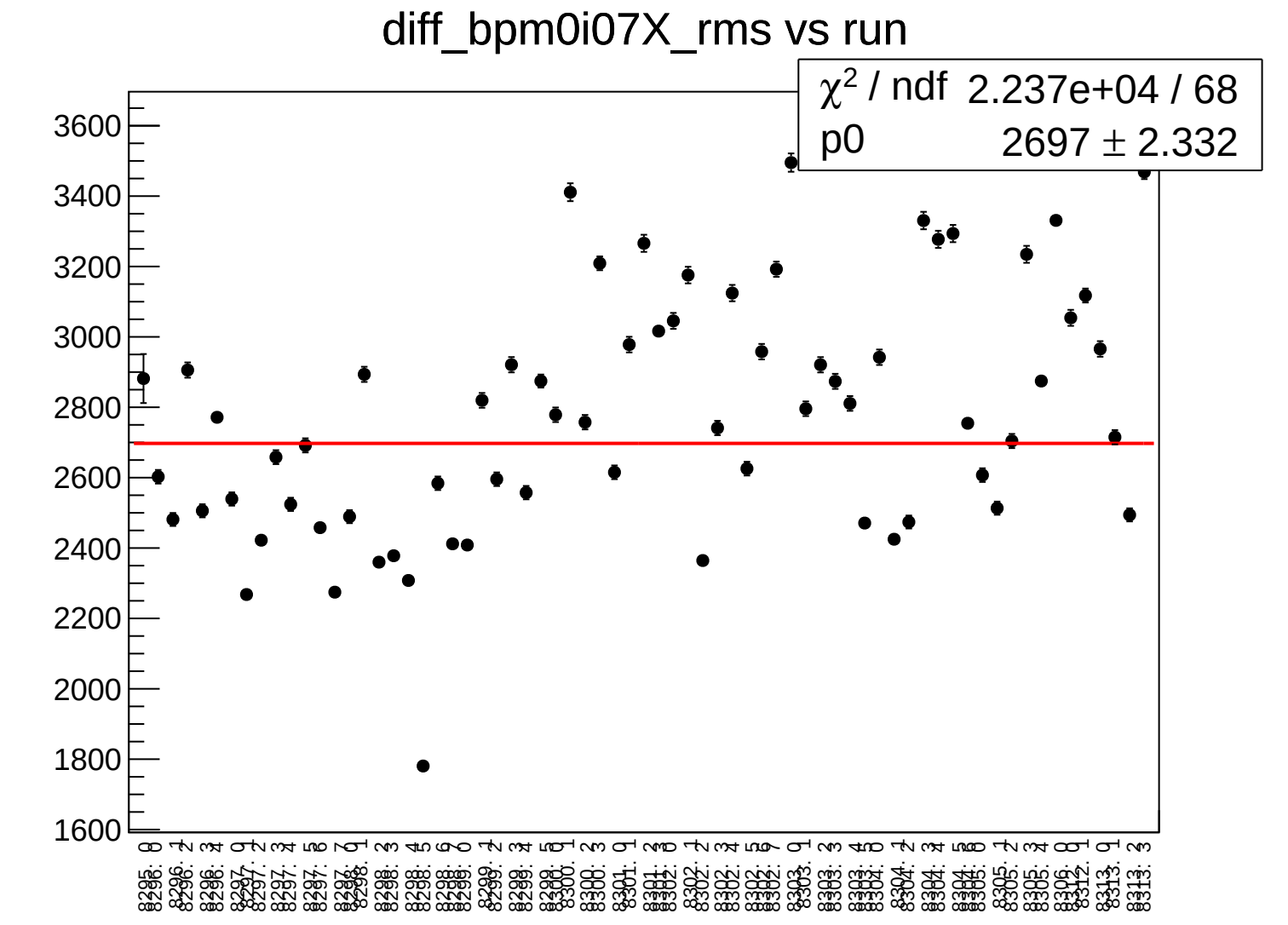

diff_bpm0i05Y_mean vs run
χ^2 / ndf 77.25 / 68
p0 −0.6947 ± 1.662
150
100
50
0
−50
pull
Entries 69
Mean 189.4
Std Dev 141.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

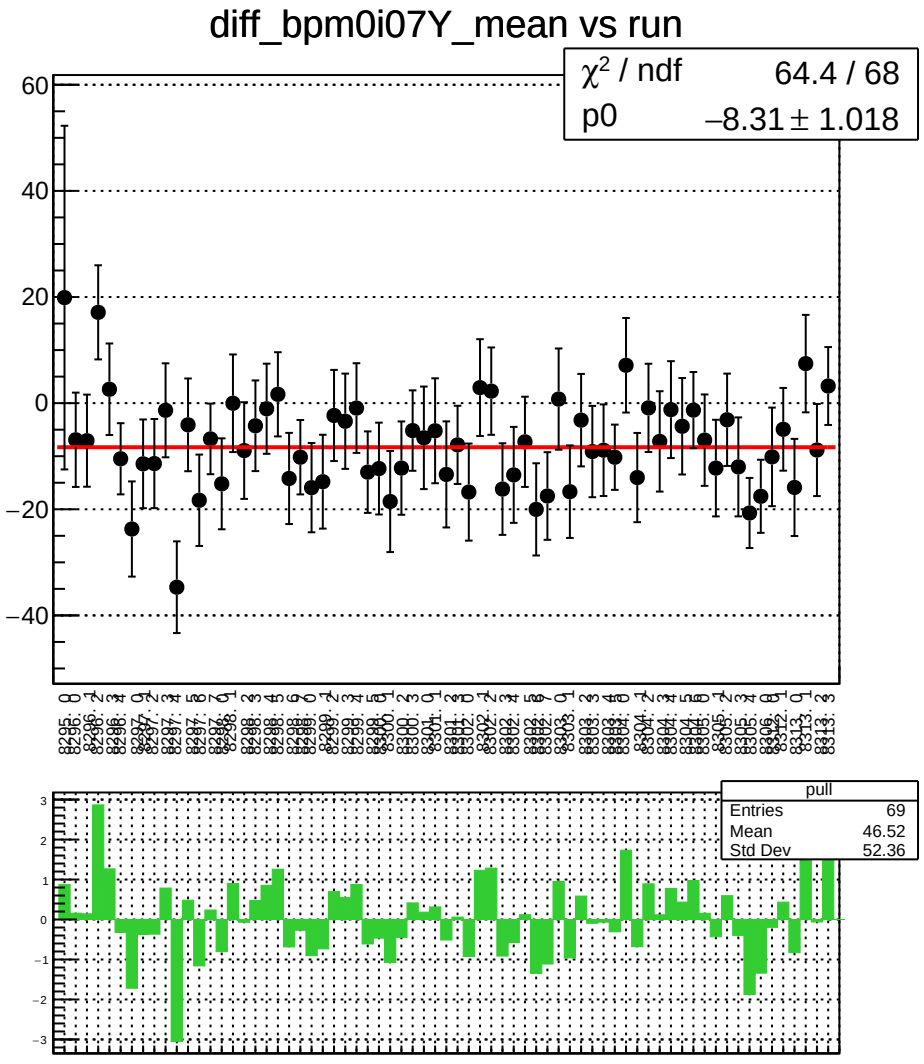

pull1D
Entries 69
Mean 0.01466
Std Dev 1.058
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

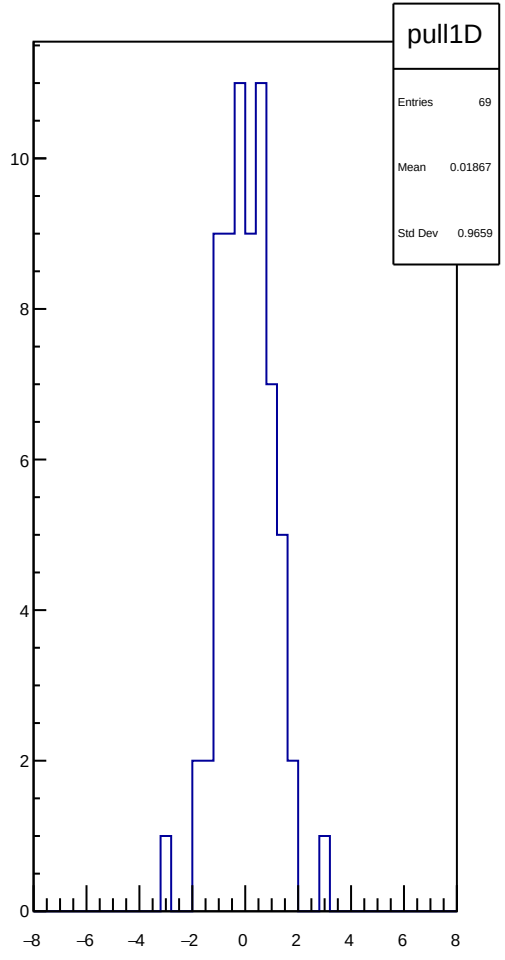

diff_bpm0i05Y_rms vs run
χ² / ndf 729.1 / 68
p0 1370 ± 1.175
1500
1450
1400
1350
1300

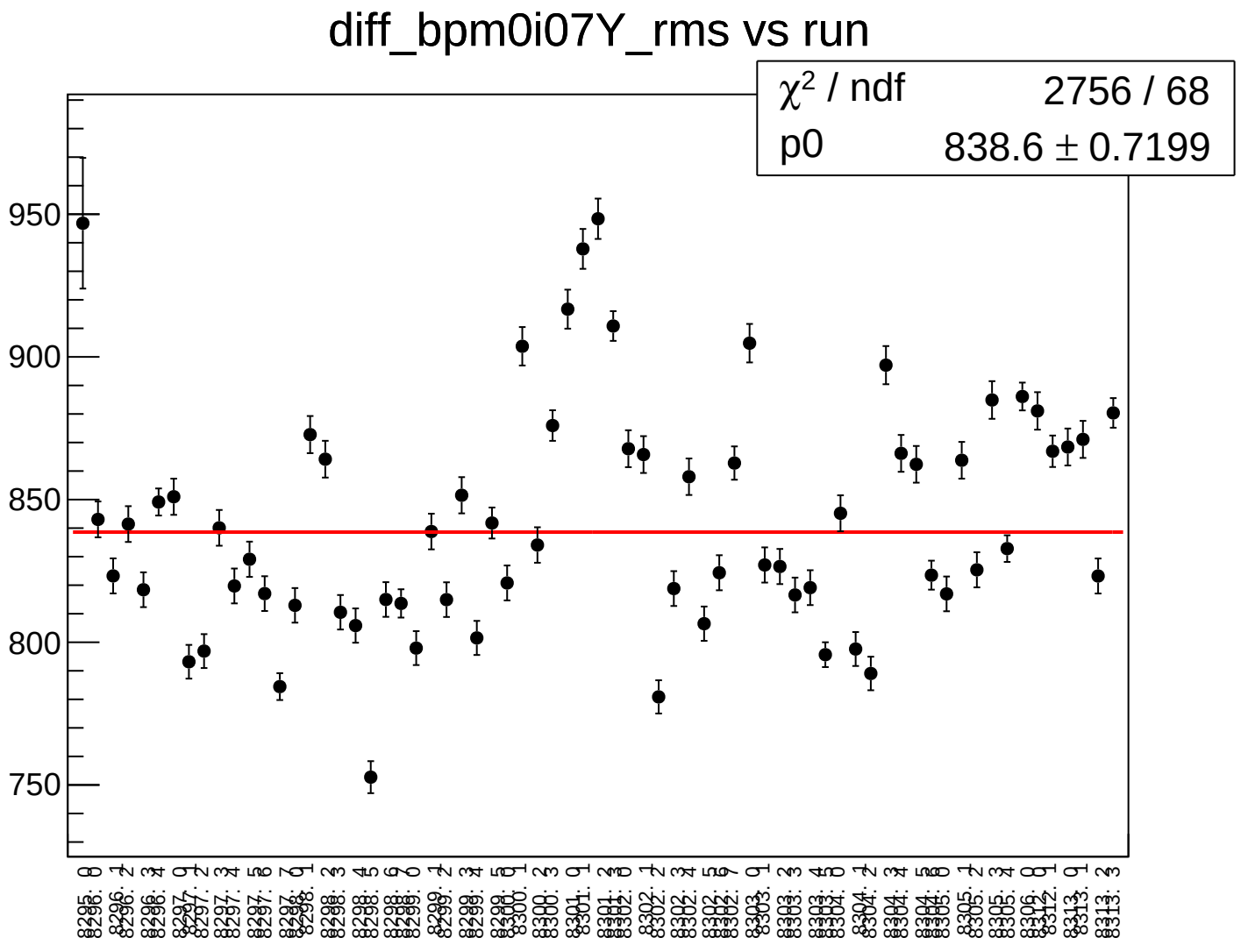

diff_bpm0i07X_mean vs run
χ^2 / ndf 67.42 / 68
p0 6.152 ± 3.298
pull
Entries 69
Mean 1124
Std Dev 1089

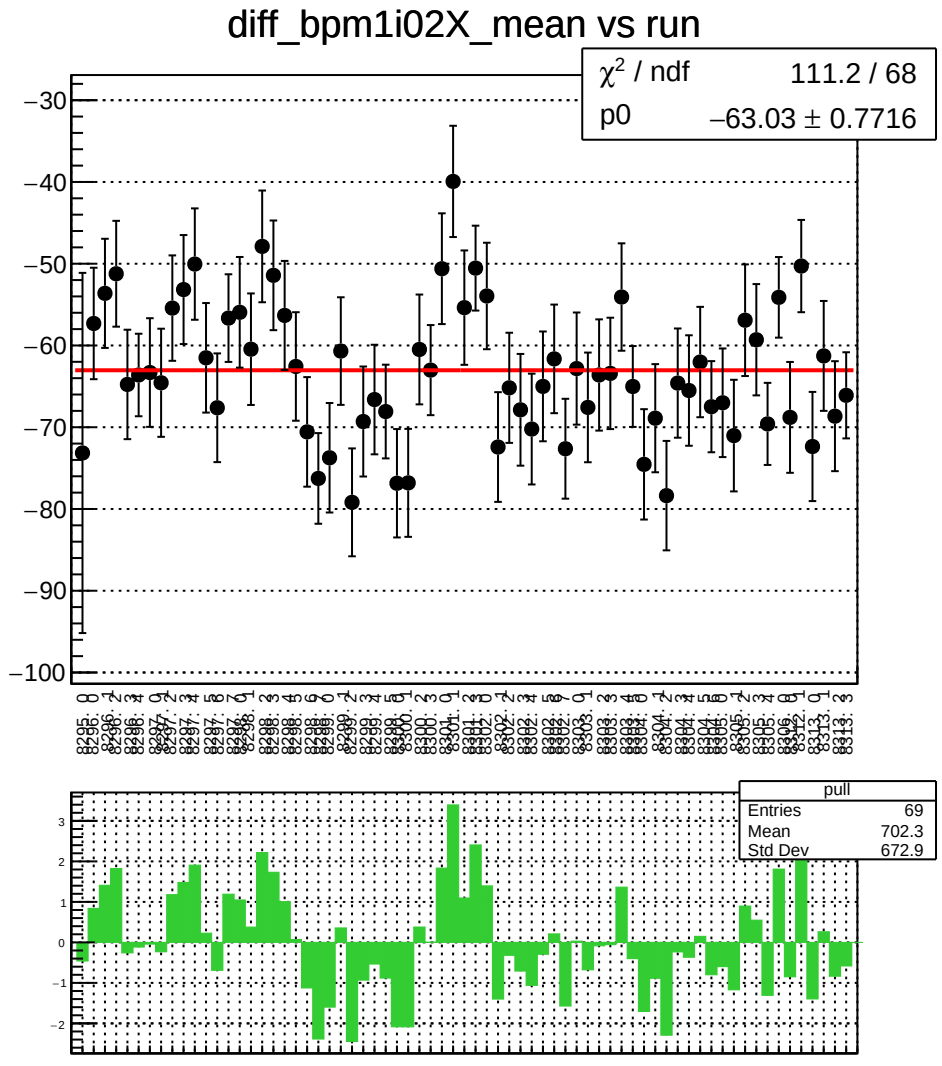

pull1D
Entries 69
Mean −0.003782
Std Dev 0.9885

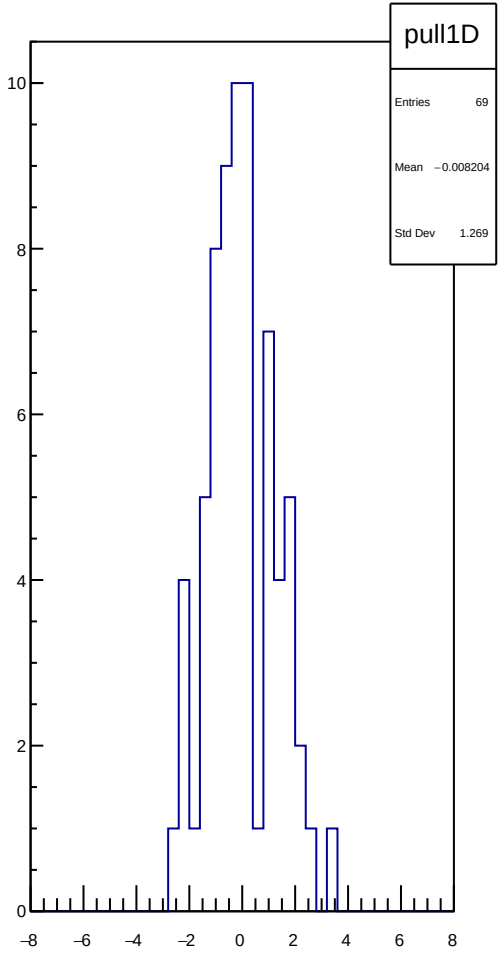

diff_bpm0i07X_rms vs run
χ² / ndf 2.237e+04 / 68
p0 2697 ± 2.332
3600
3400
3200
3000
2800
2600
2400
2200
2000
1800
1600

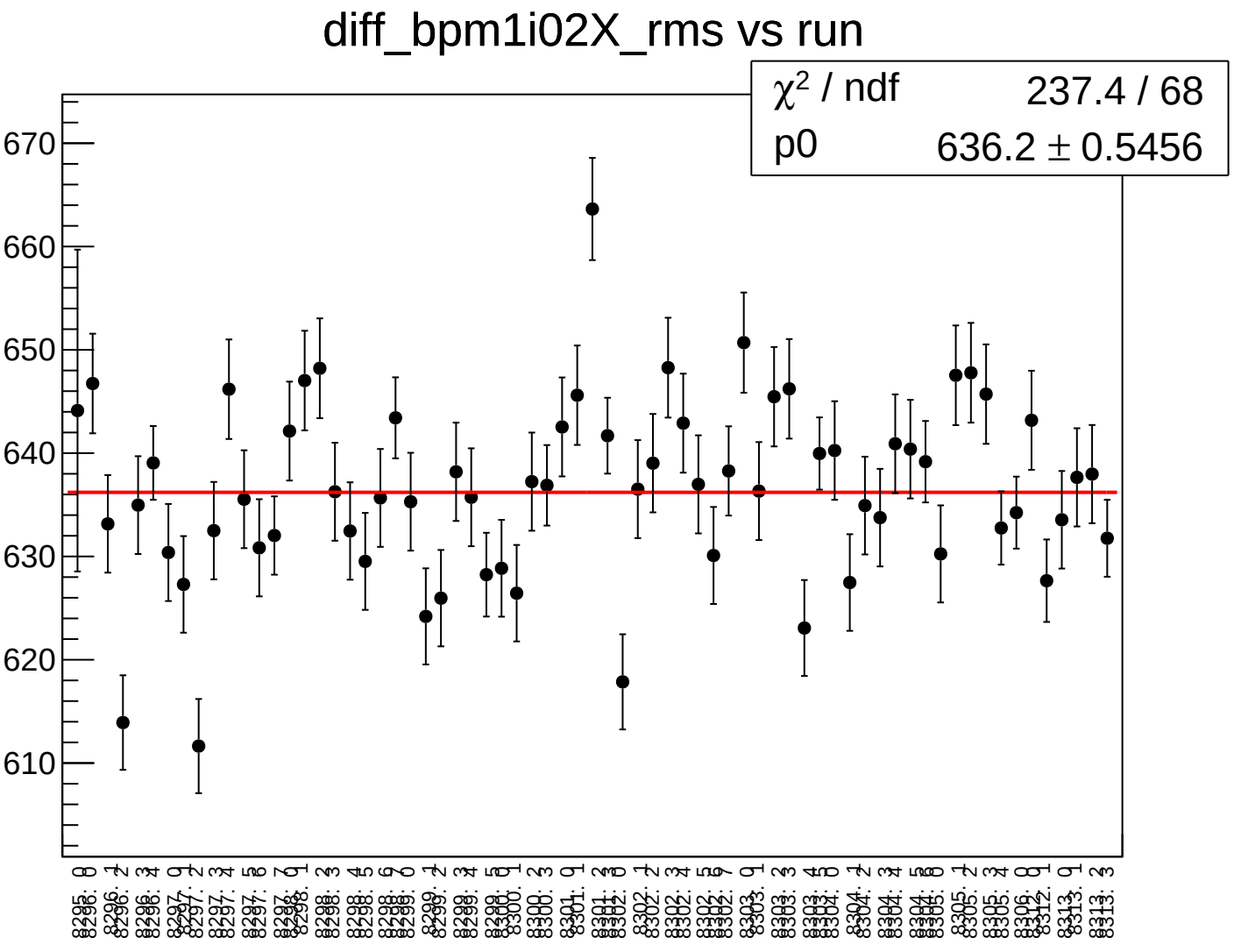

diff_bpm0i07Y_mean vs run
χ² / ndf 64.4 / 68
p0 −8.31 ± 1.018
pull
Entries 69
Mean 46.52
Std Dev 52.36

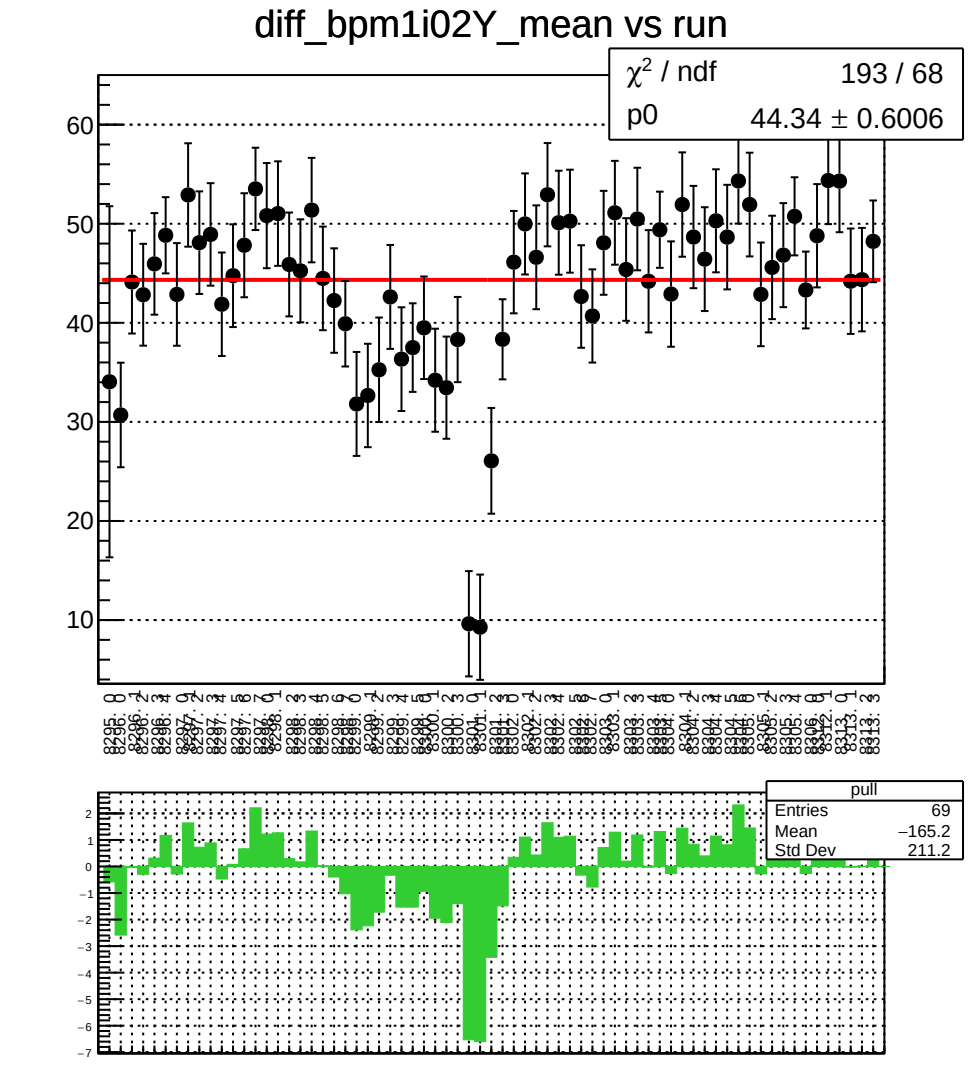

pull1D
Entries 69
Mean 0.01867
Std Dev 0.9659

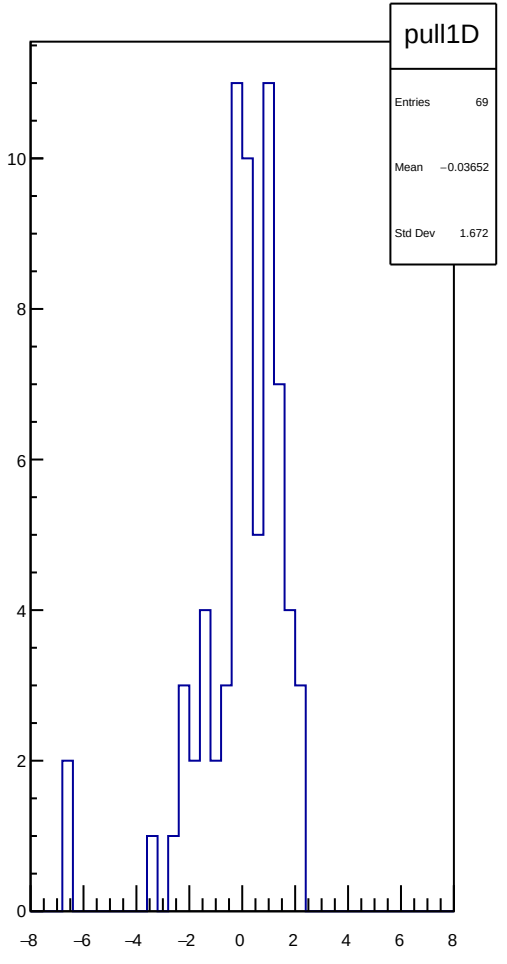

diff_bpm0i07Y_rms vs run
χ² / ndf 2756 / 68
p0 838.6 ± 0.7199
950
900
850
800
750

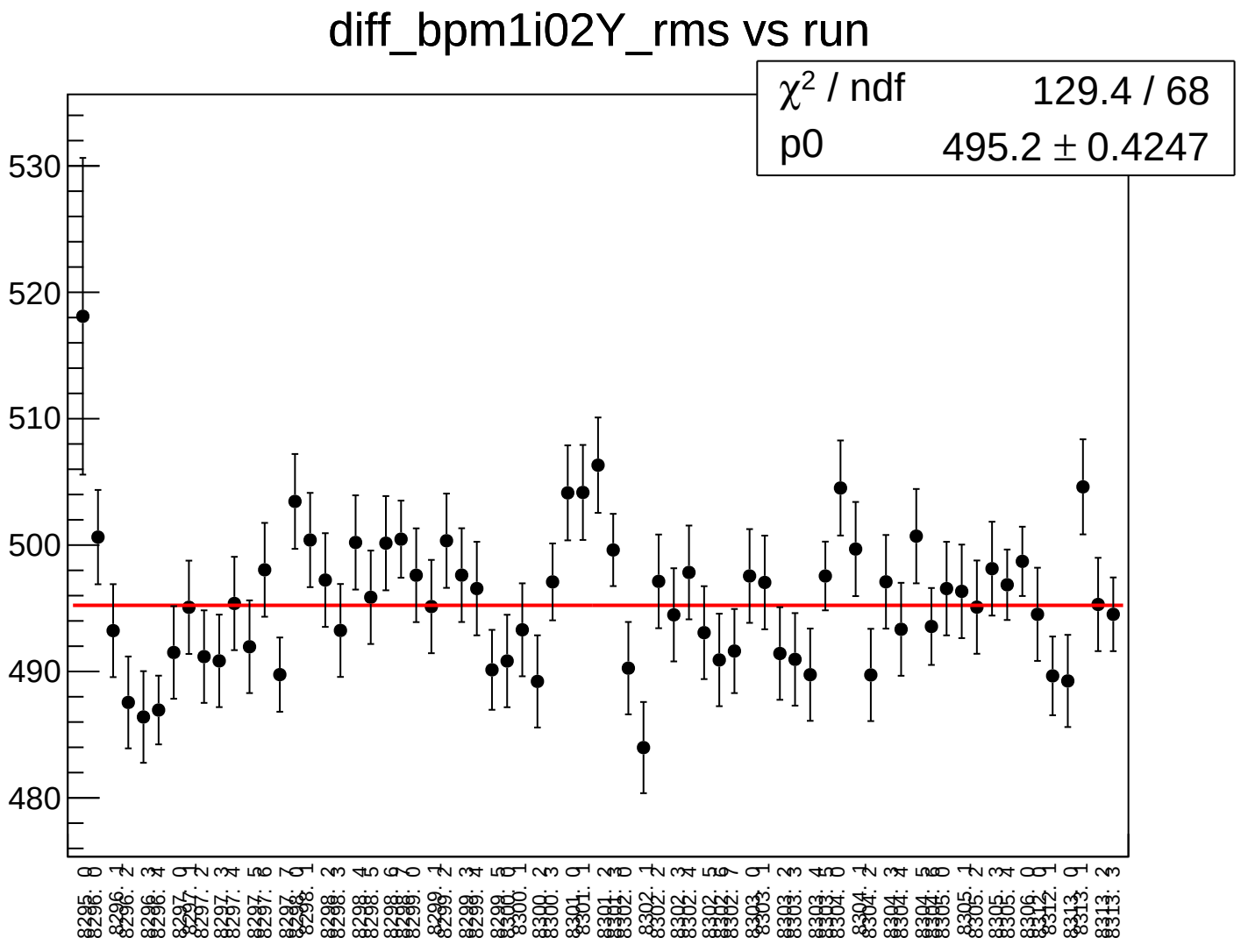

diff_bpm1i02X_mean vs run
χ² / ndf 111.2 / 68
p0 −63.03 ± 0.7716
pull
Entries 69
Mean 702.3
Std Dev 672.9

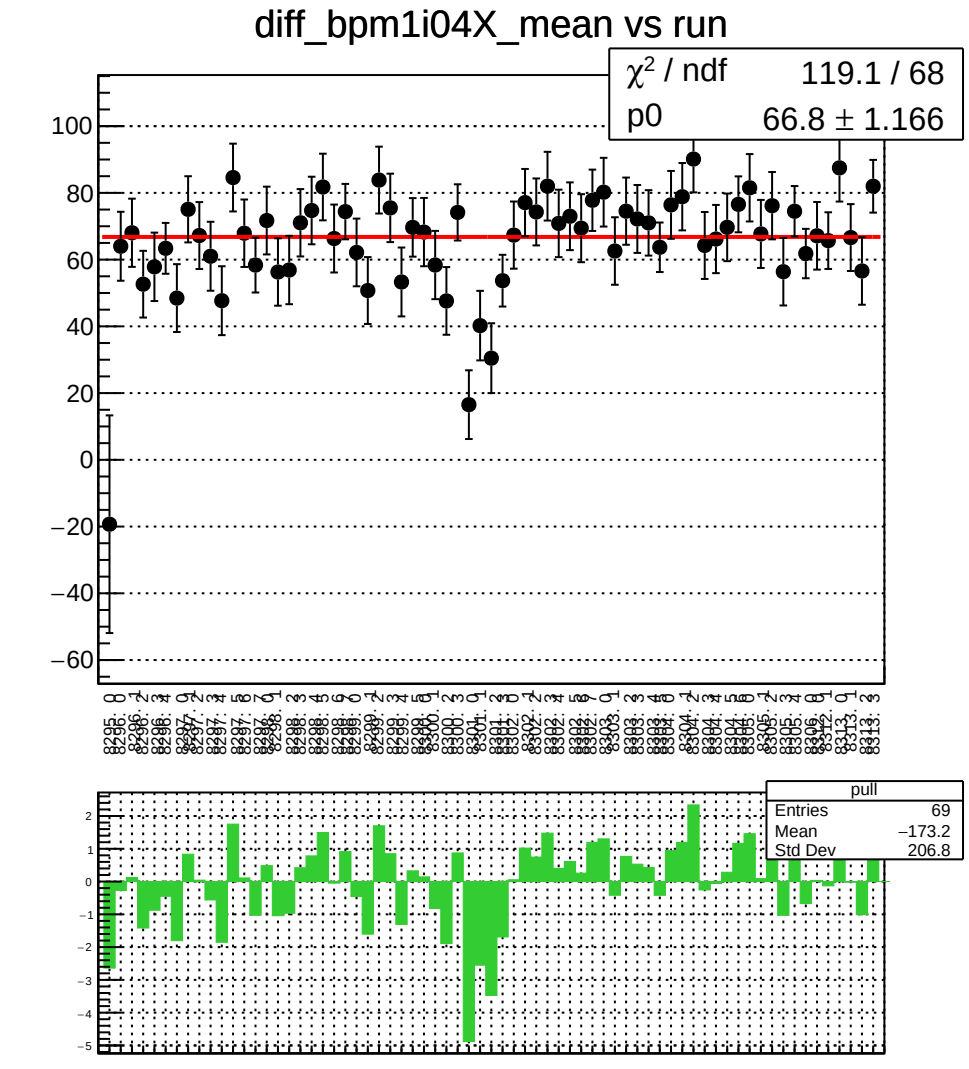

pull1D
Entries 69
Mean −0.008204
Std Dev 1.269

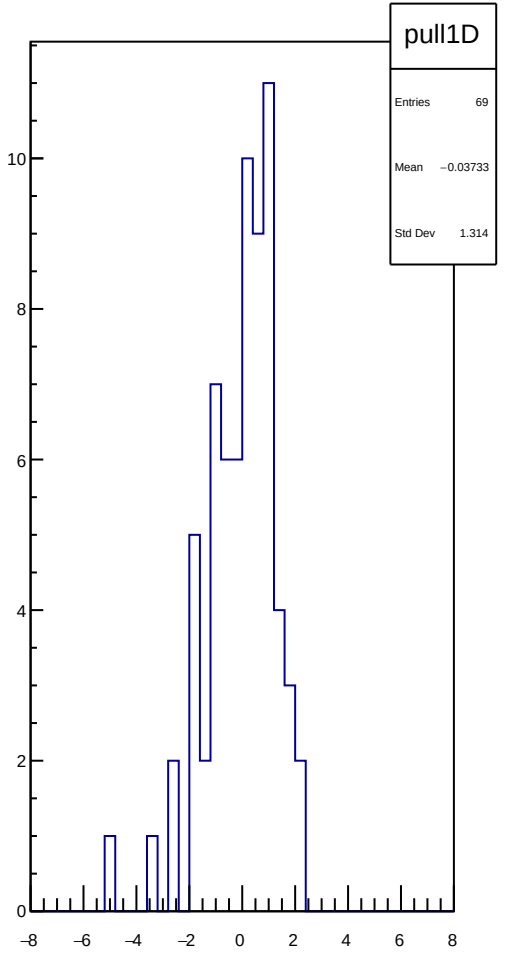

diff_bpm1i02X_rms vs run
χ² / ndf 237.4 / 68
p0 636.2 ± 0.5456
670
660
650
640
630
620
610

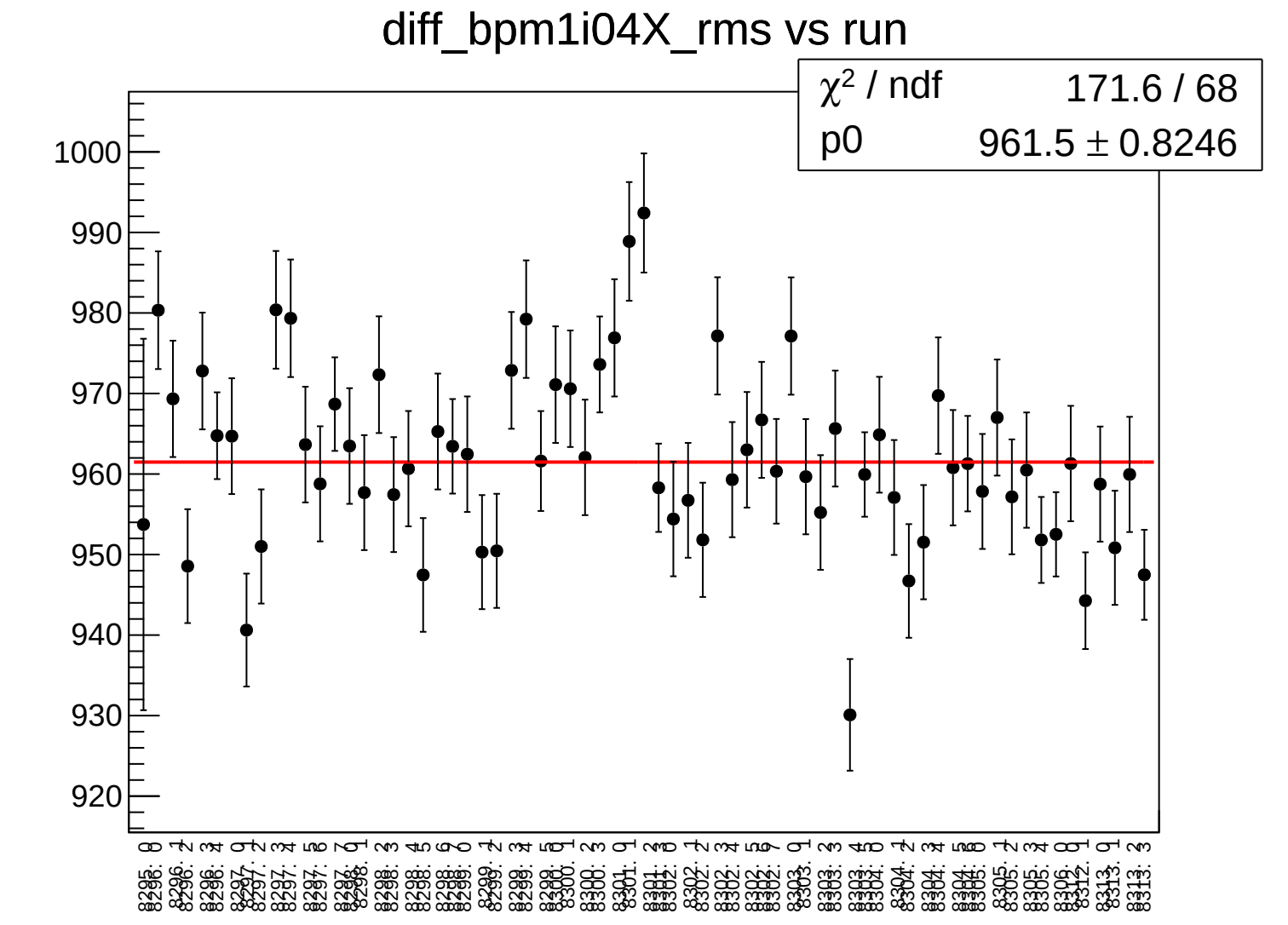

diff_bpm1i02Y_mean vs run
χ² / ndf 193 / 68
p0 44.34 ± 0.6006
pull
Entries 69
Mean −165.2
Std Dev 211.2

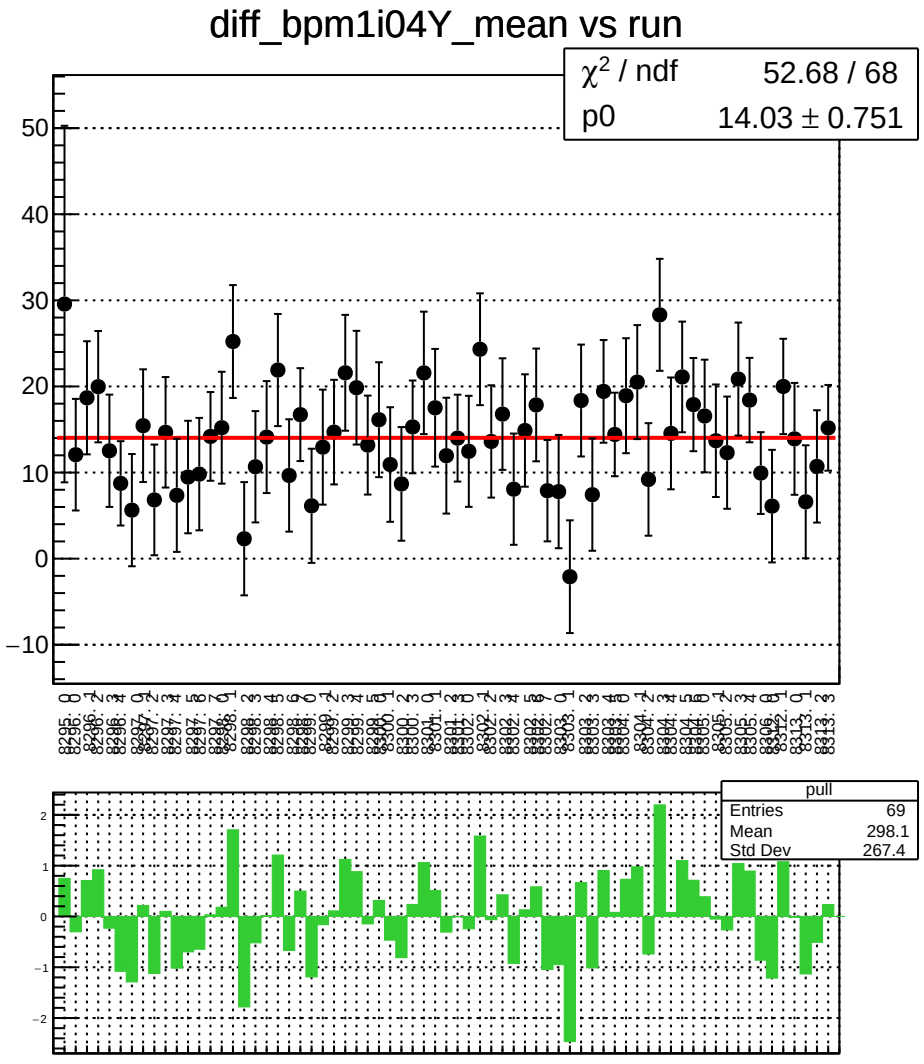

pull1D
Entries 69
Mean −0.03652
Std Dev 1.672

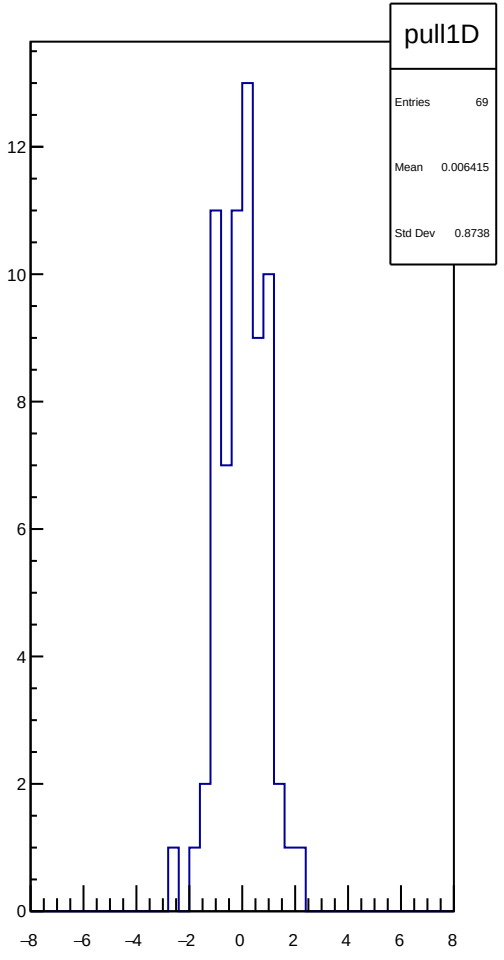

diff_bpm1i02Y_rms vs run
χ² / ndf 129.4 / 68
p0 495.2 ± 0.4247
530
520
510
500
490
480

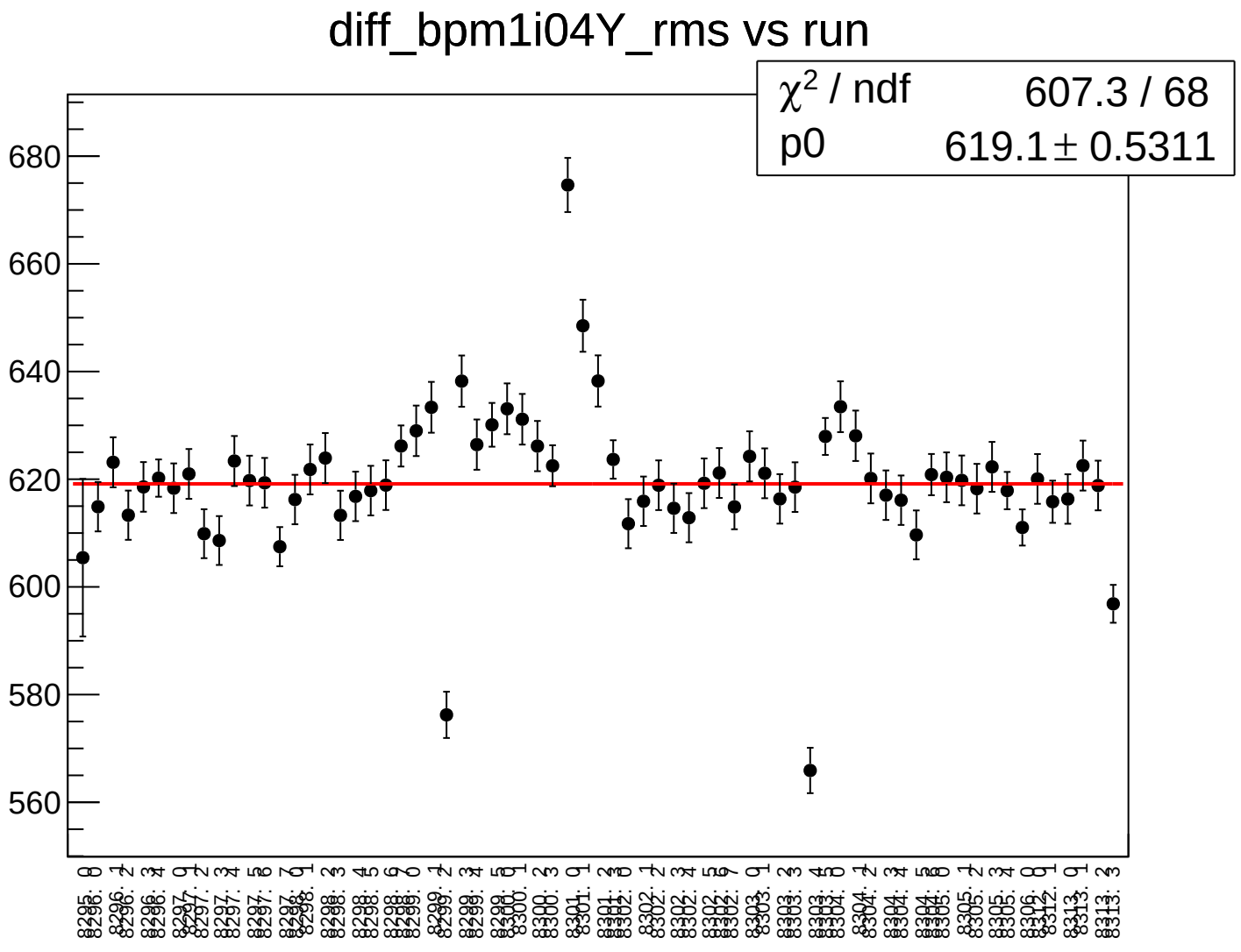

diff_bpm1i04X_mean vs run
χ² / ndf 119.1 / 68
p0 66.8 ± 1.166
pull
Entries 69
Mean −173.2
Std Dev 206.8

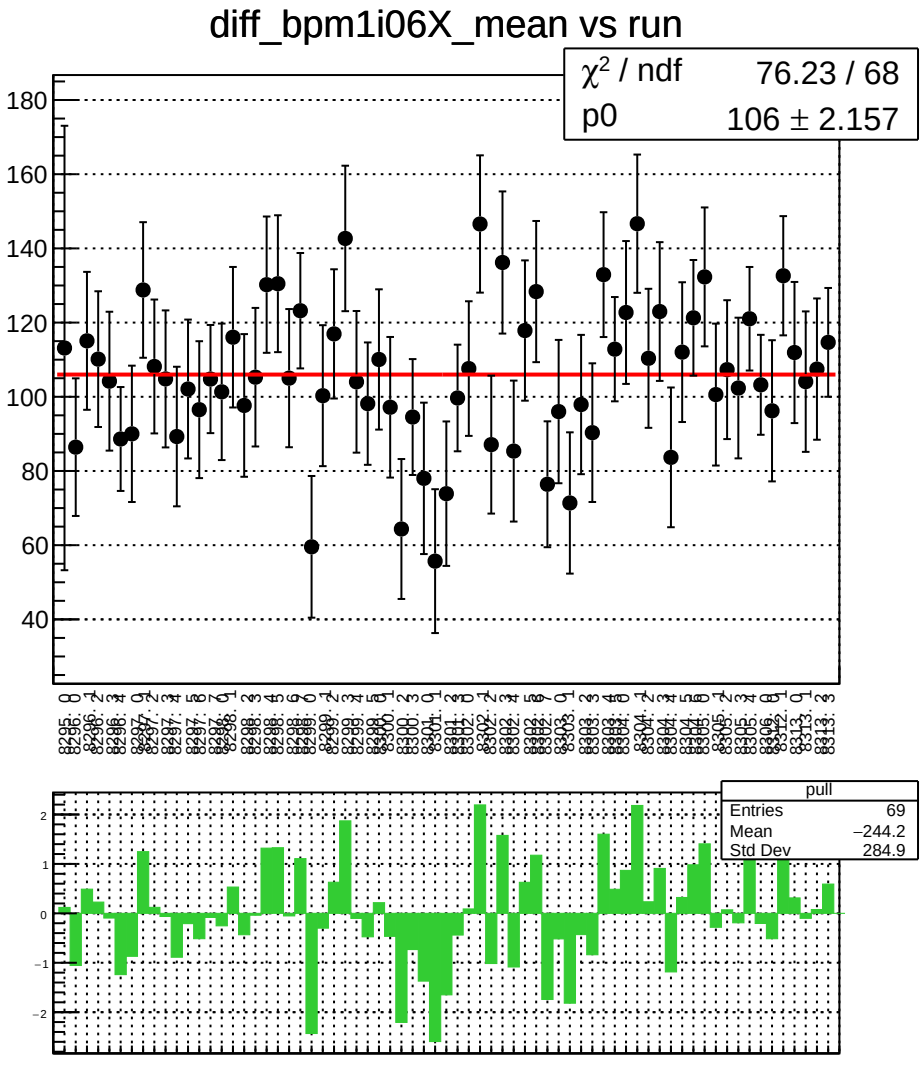

pull1D
Entries 69
Mean −0.03733
Std Dev 1.314

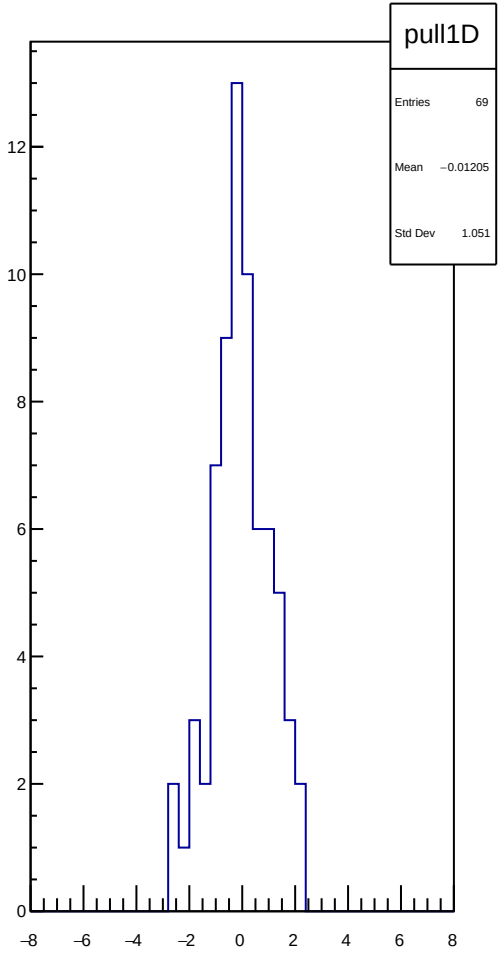

diff_bpm1i04X_rms vs run
χ² / ndf 171.6 / 68
p0 961.5 ± 0.8246
1000
990
980
970
960
950
940
930
920

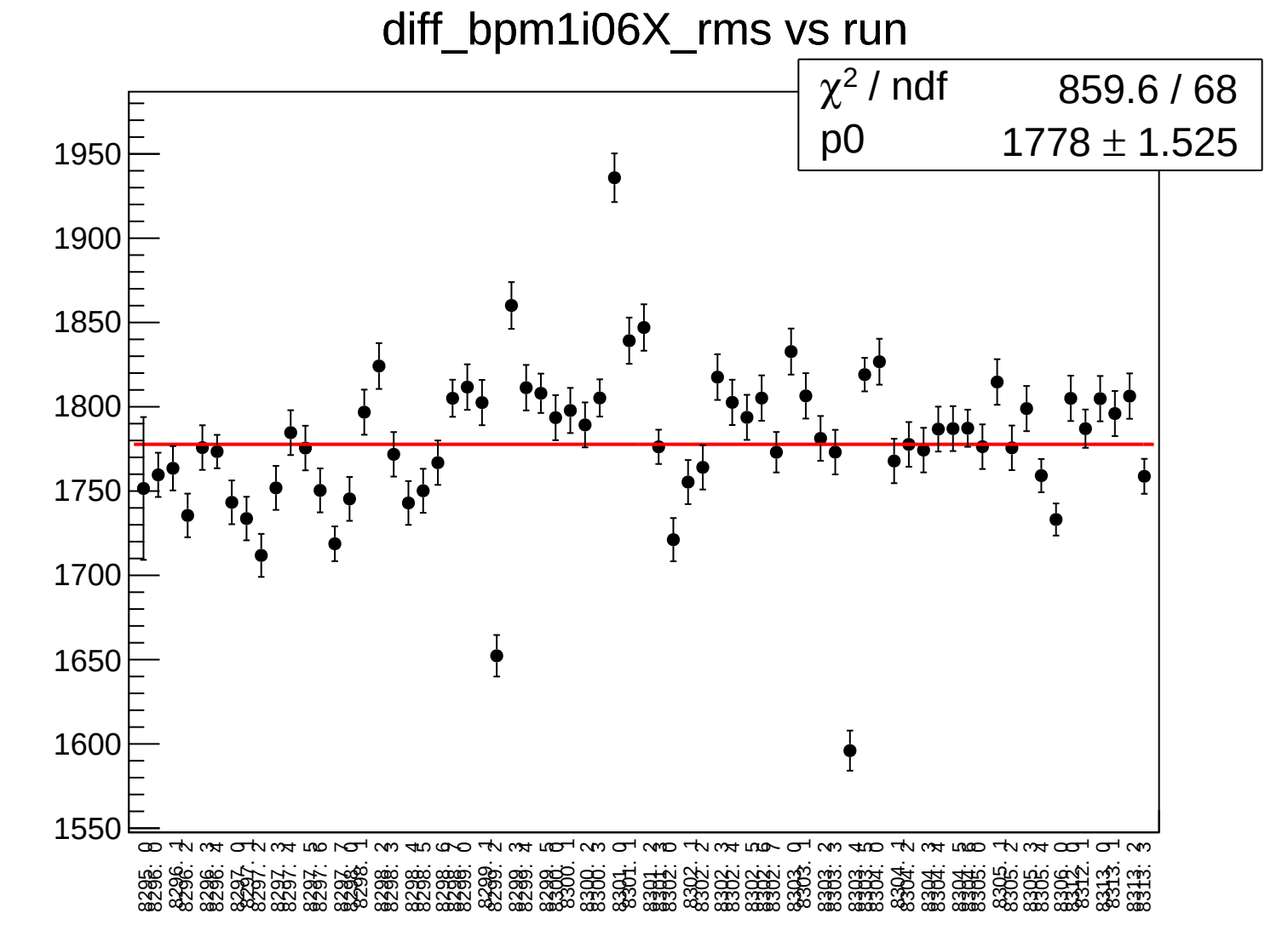

diff_bpm1i04Y_mean vs run
χ^2 / ndf 52.68 / 68
p0 14.03 ± 0.751
pull
Entries 69
Mean 298.1
Std Dev 267.4

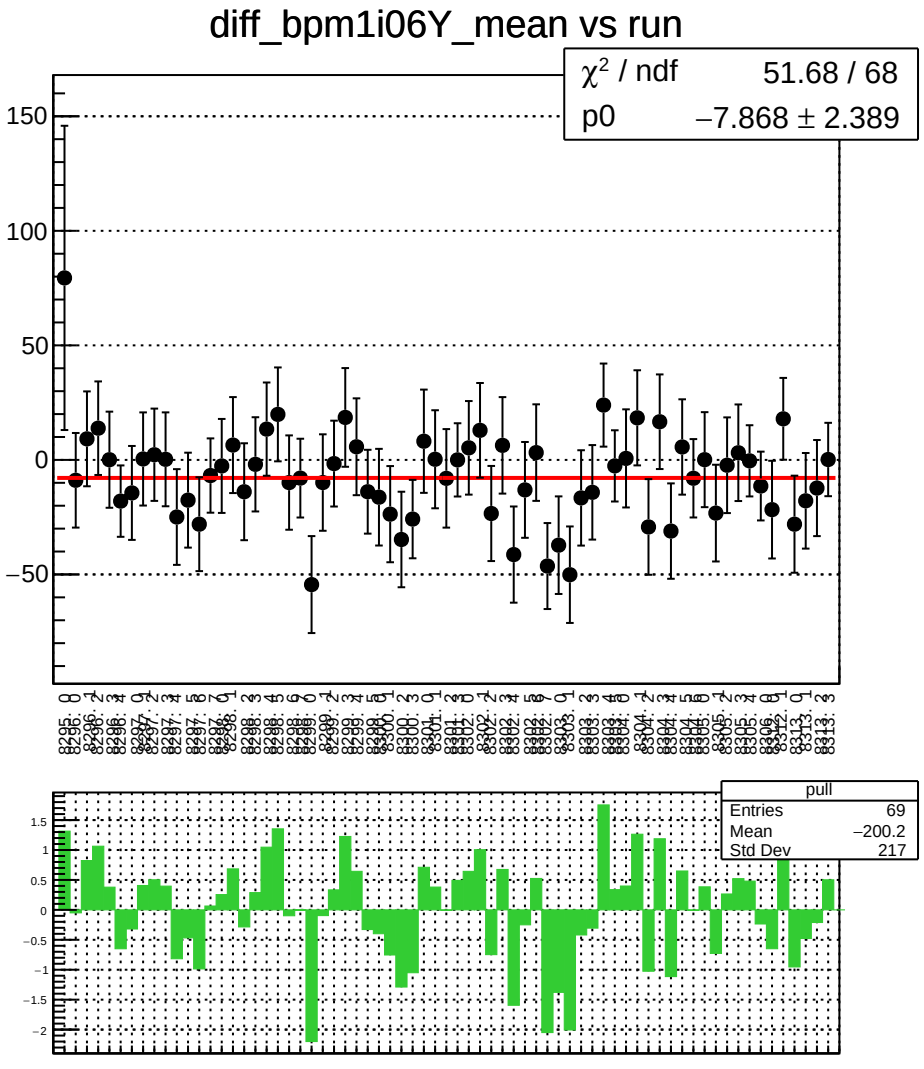

pull1D
Entries 69
Mean 0.006415
Std Dev 0.8738

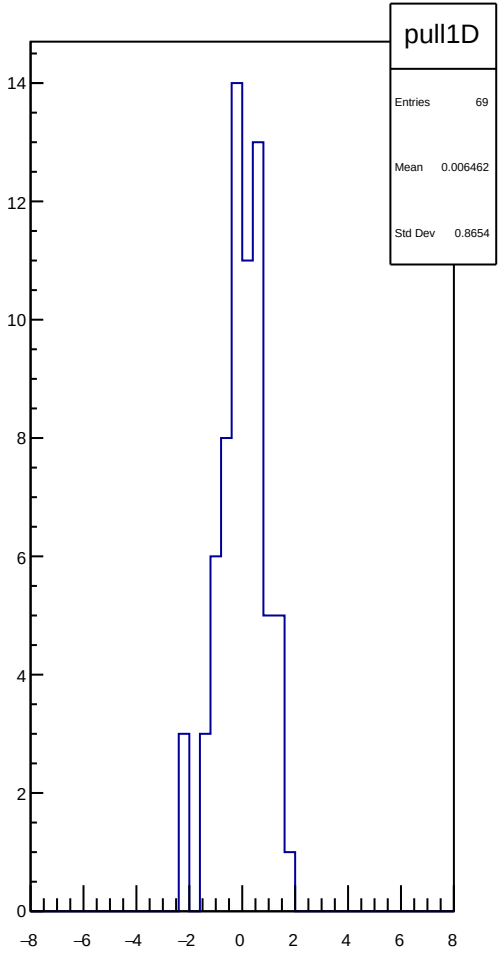

diff_bpm1i04Y_rms vs run
χ² / ndf 607.3 / 68
p0 619.1 ± 0.5311
680
660
640
620
600
580
560

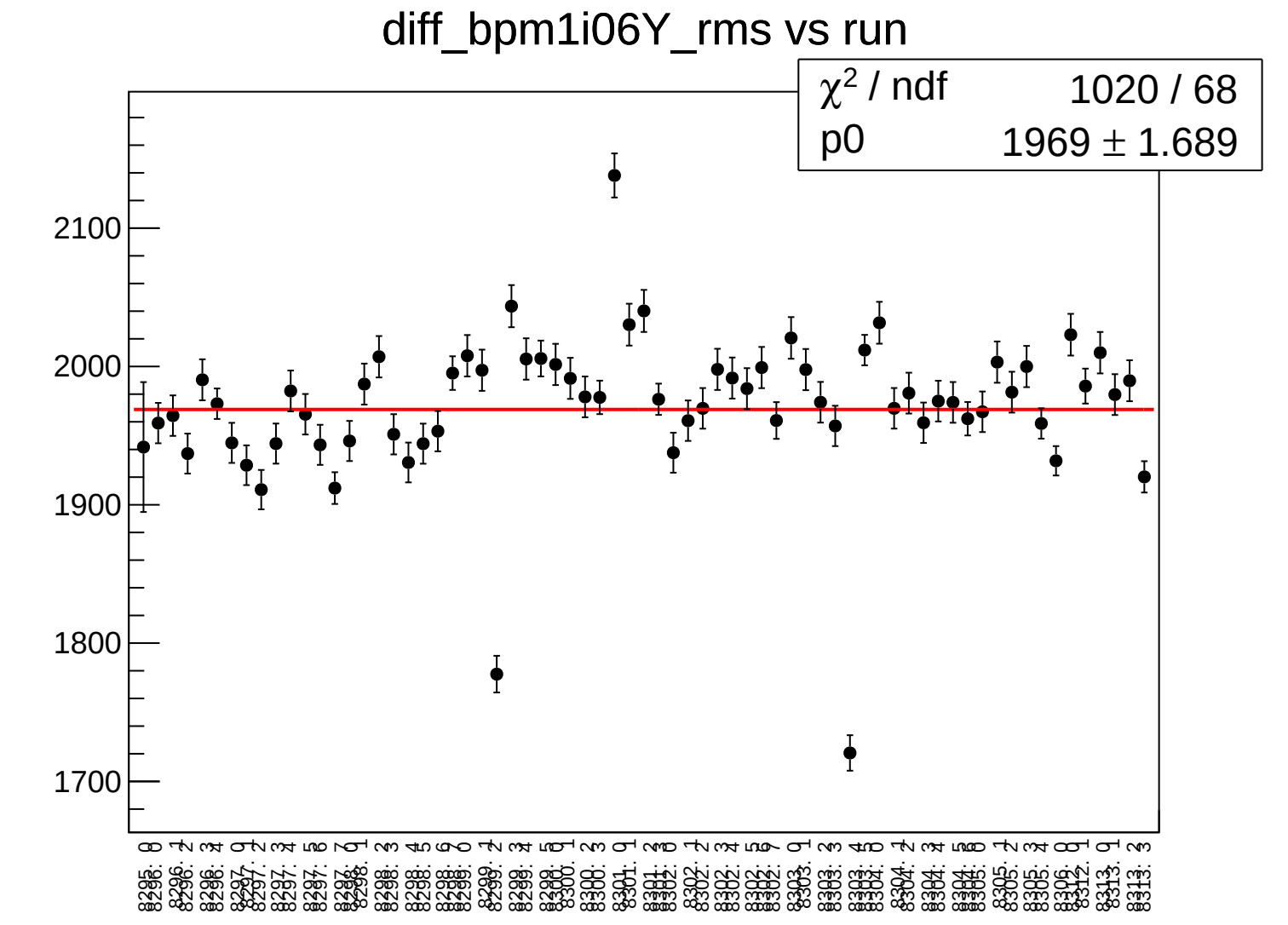

diff_bpm1i06X_mean vs run
χ² / ndf 76.23 / 68
p0 106 ± 2.157
pull
Entries 69
Mean −244.2
Std Dev 284.9

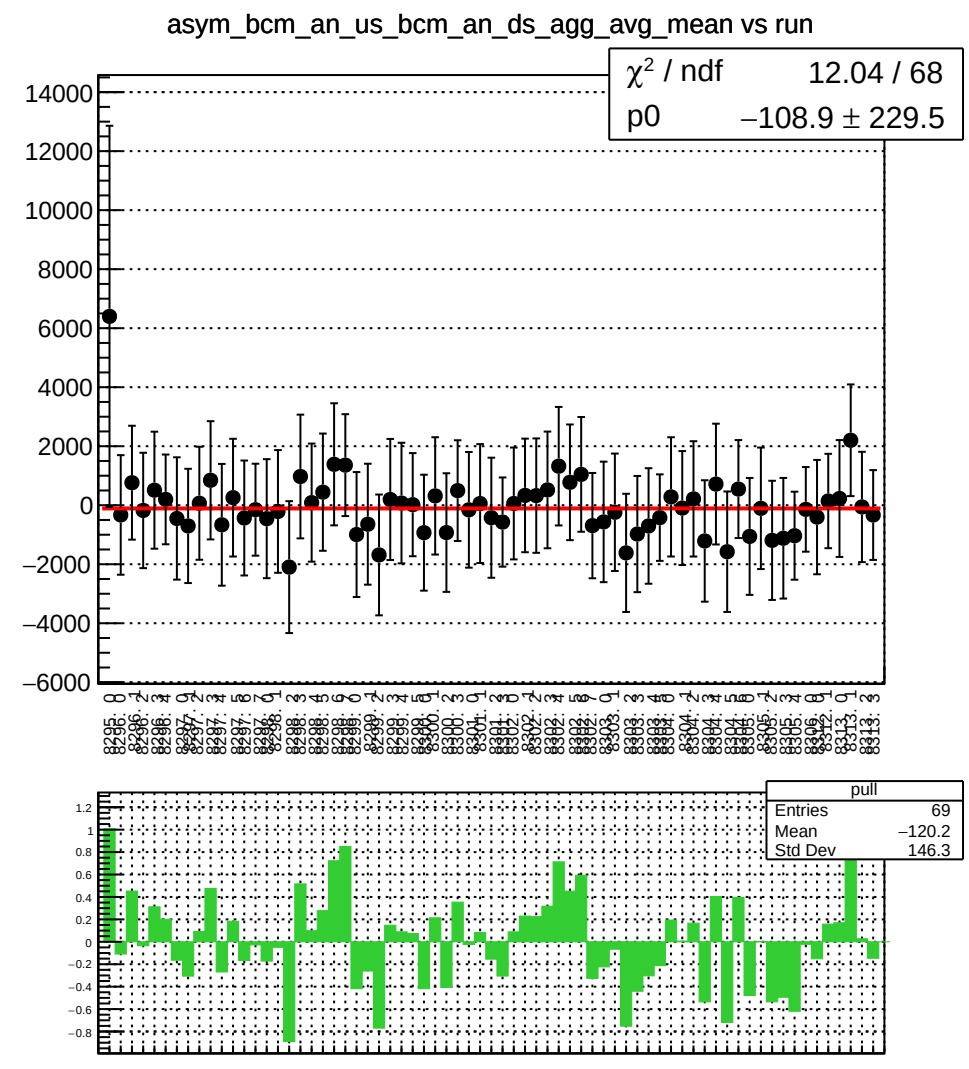

pull1D
Entries 69
Mean −0.01205
Std Dev 1.051

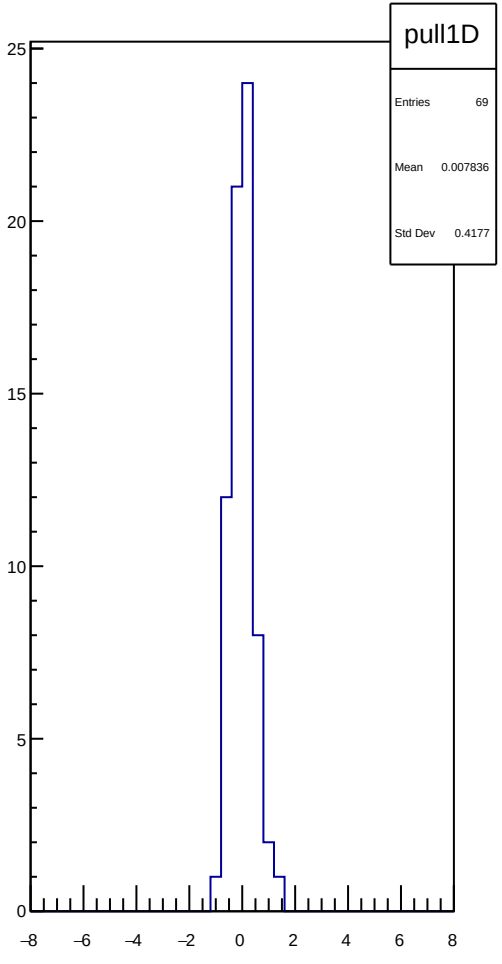

diff_bpm1i06X_rms vs run
χ² / ndf 859.6 / 68
p0 1778 ± 1.525
1950
1900
1850
1800
1750
1700
1650
1600
1550

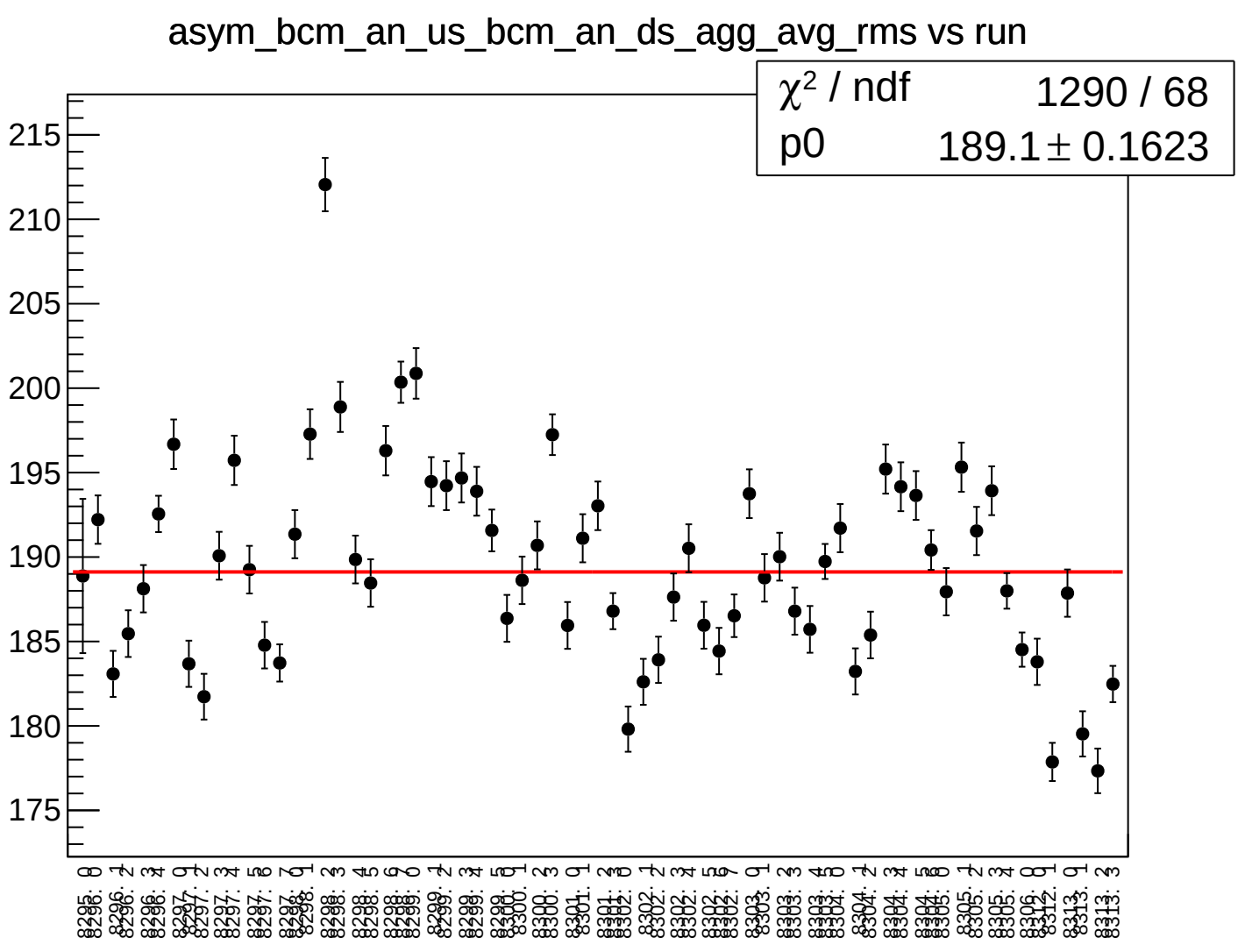

diff_bpm1i06Y_mean vs run
χ^2 / ndf 51.68 / 68
p0 −7.868 ± 2.389
150
100
50
0
−50
pull
Entries 69
Mean −200.2
Std Dev 217
1.5
1
0.5
0
−0.5
−1
−1.5
−2

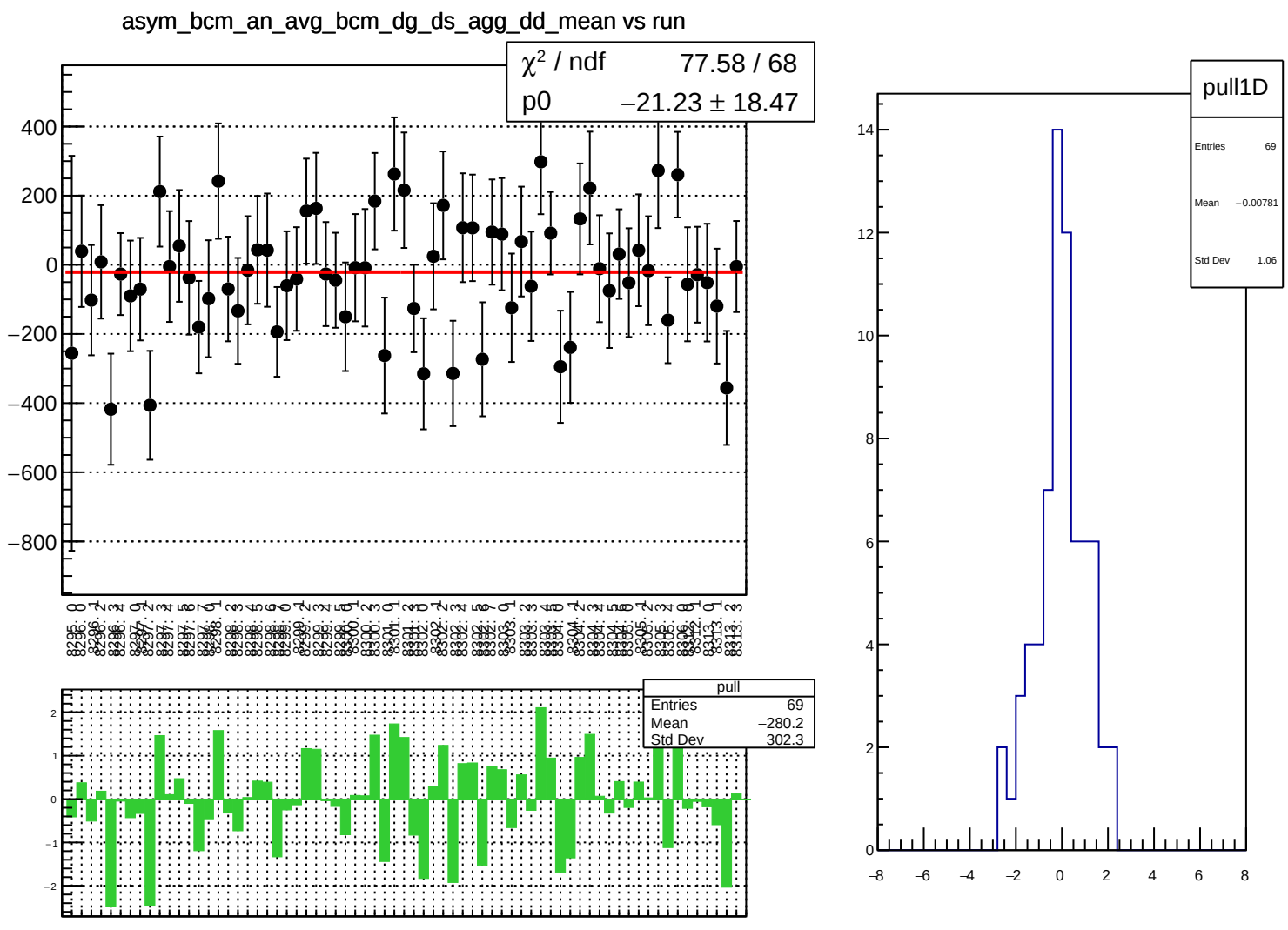

pull1D
Entries 69
Mean 0.006462
Std Dev 0.8654
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

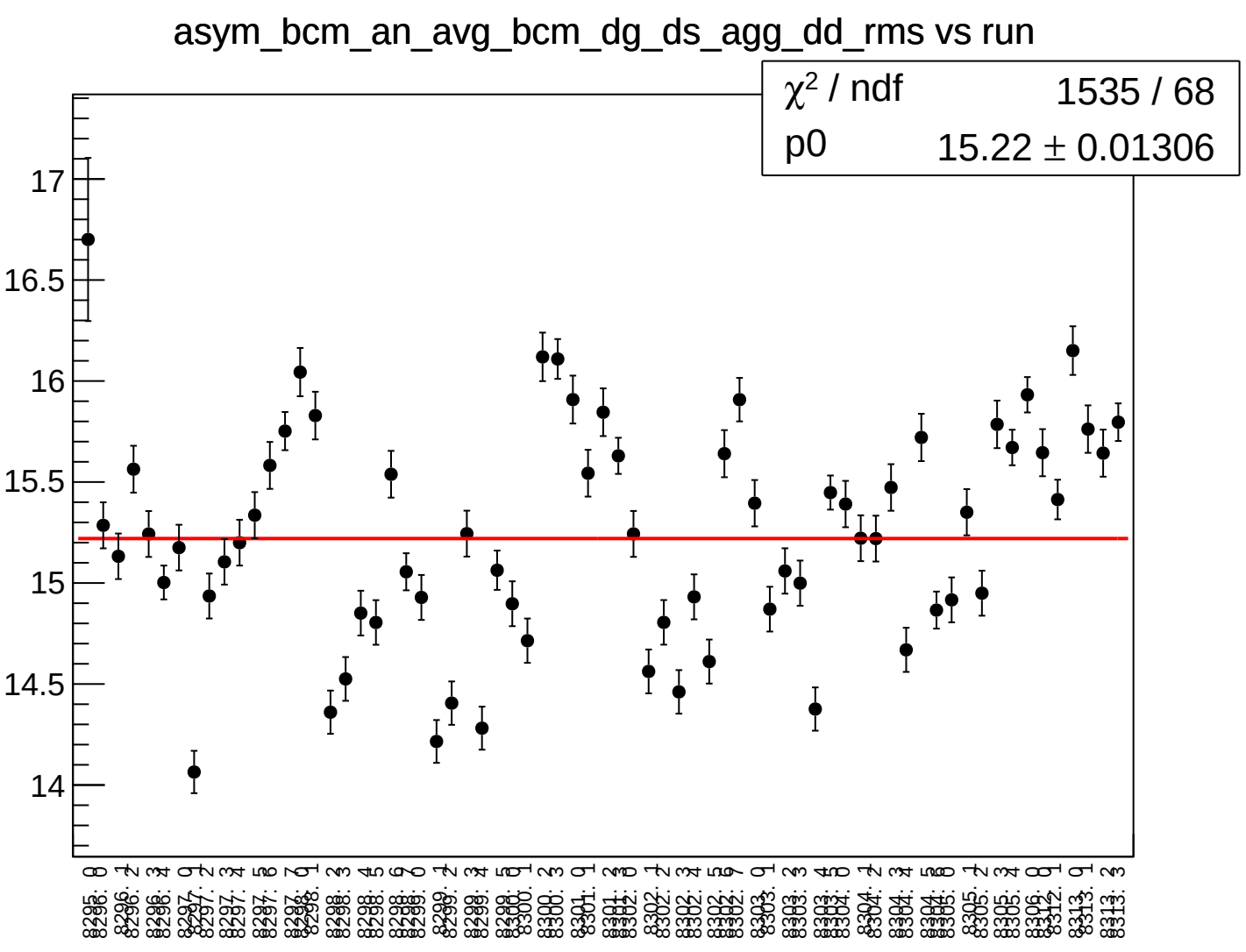

diff_bpm1i06Y_rms vs run
χ² / ndf 1020 / 68
p0 1969 ± 1.689
2100
2000
1900
1800
1700

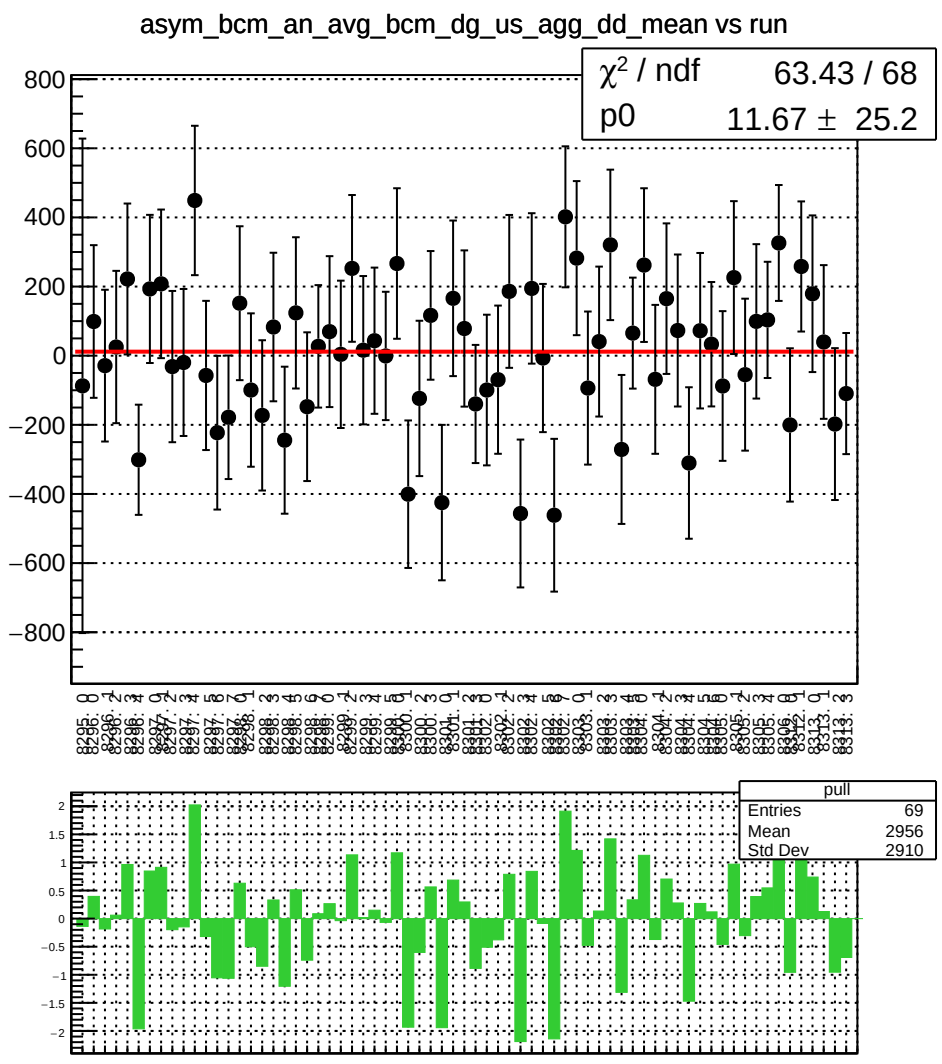

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.04 / 68
p0 −108.9 ± 229.5
pull
Entries 69
Mean −120.2
Std Dev 146.3

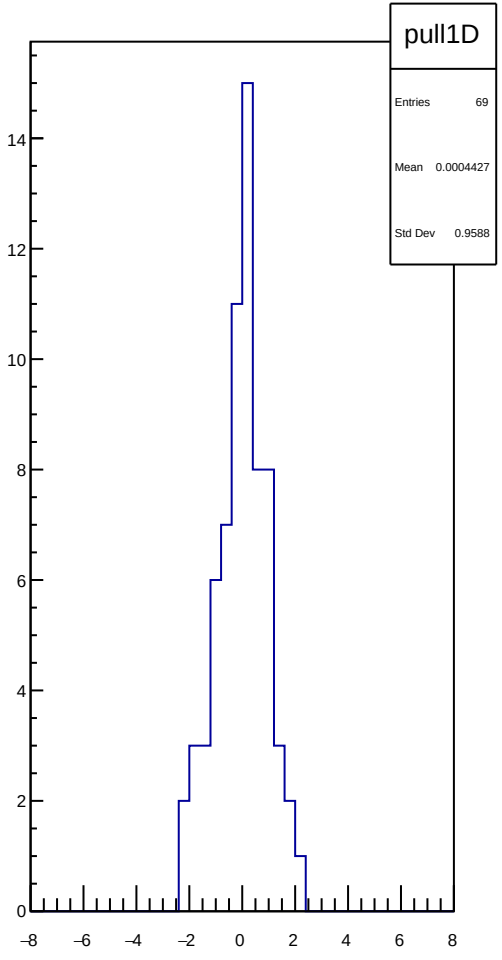

pull1D
Entries 69
Mean 0.007836
Std Dev 0.4177

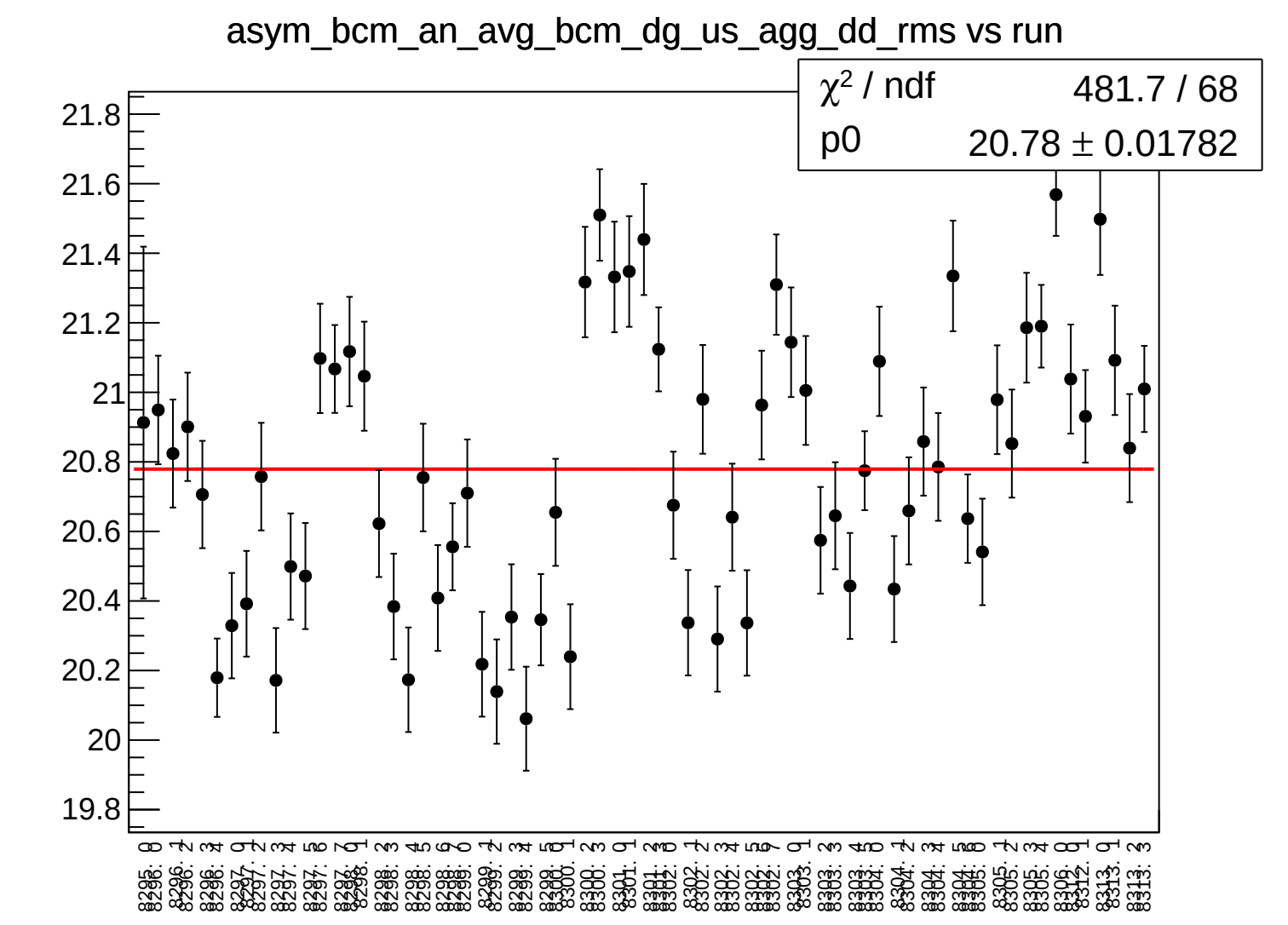

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1290 / 68
p0 189.1 ± 0.1623
215
210
205
200
195
190
185
180
175

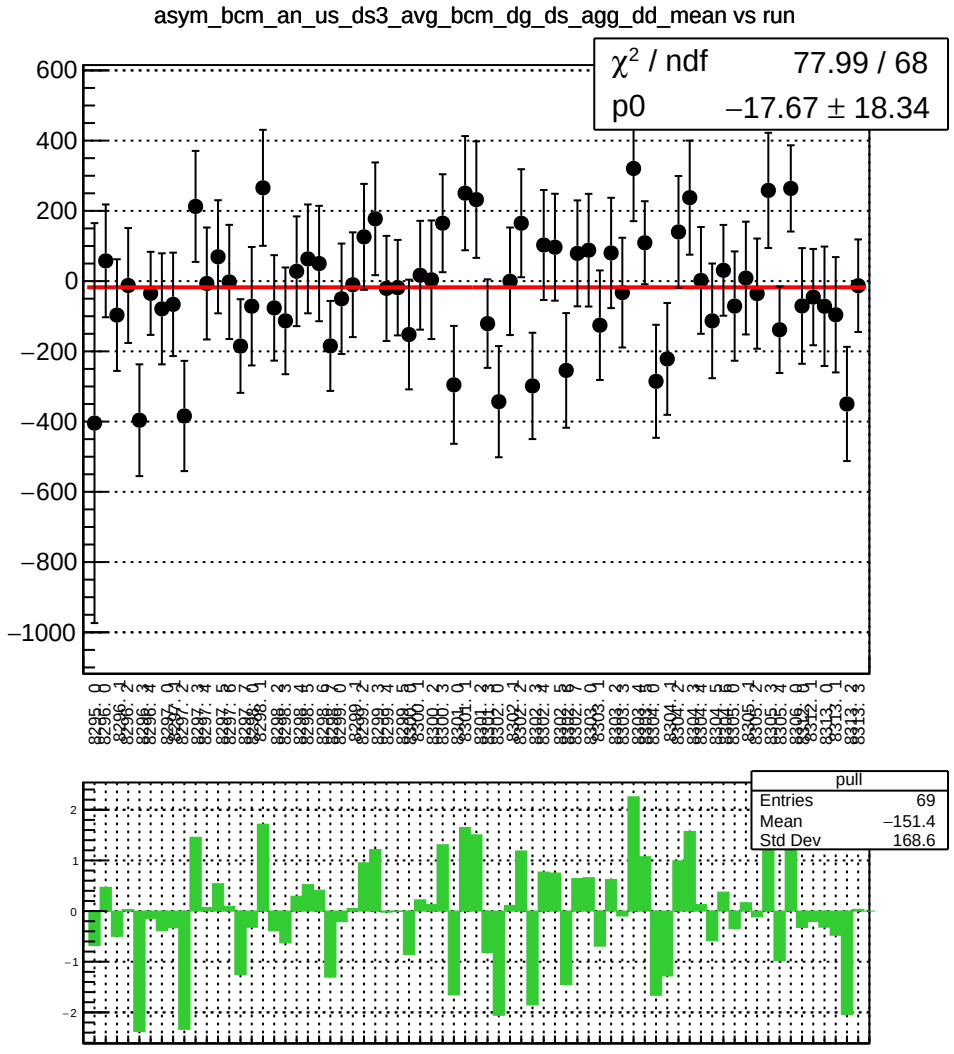

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.58 / 68
p0 −21.23 ± 18.47
pull
Entries 69
Mean −280.2
Std Dev 302.3
pull1D
Entries 69
Mean −0.00781
Std Dev 1.06

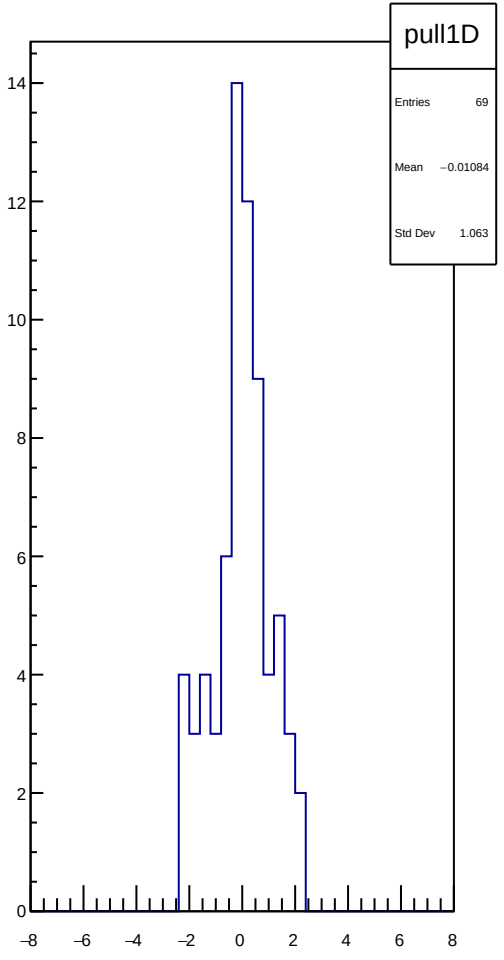

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1535 / 68
p0 15.22 ± 0.01306
17
16.5
16
15.5
15
14.5
14

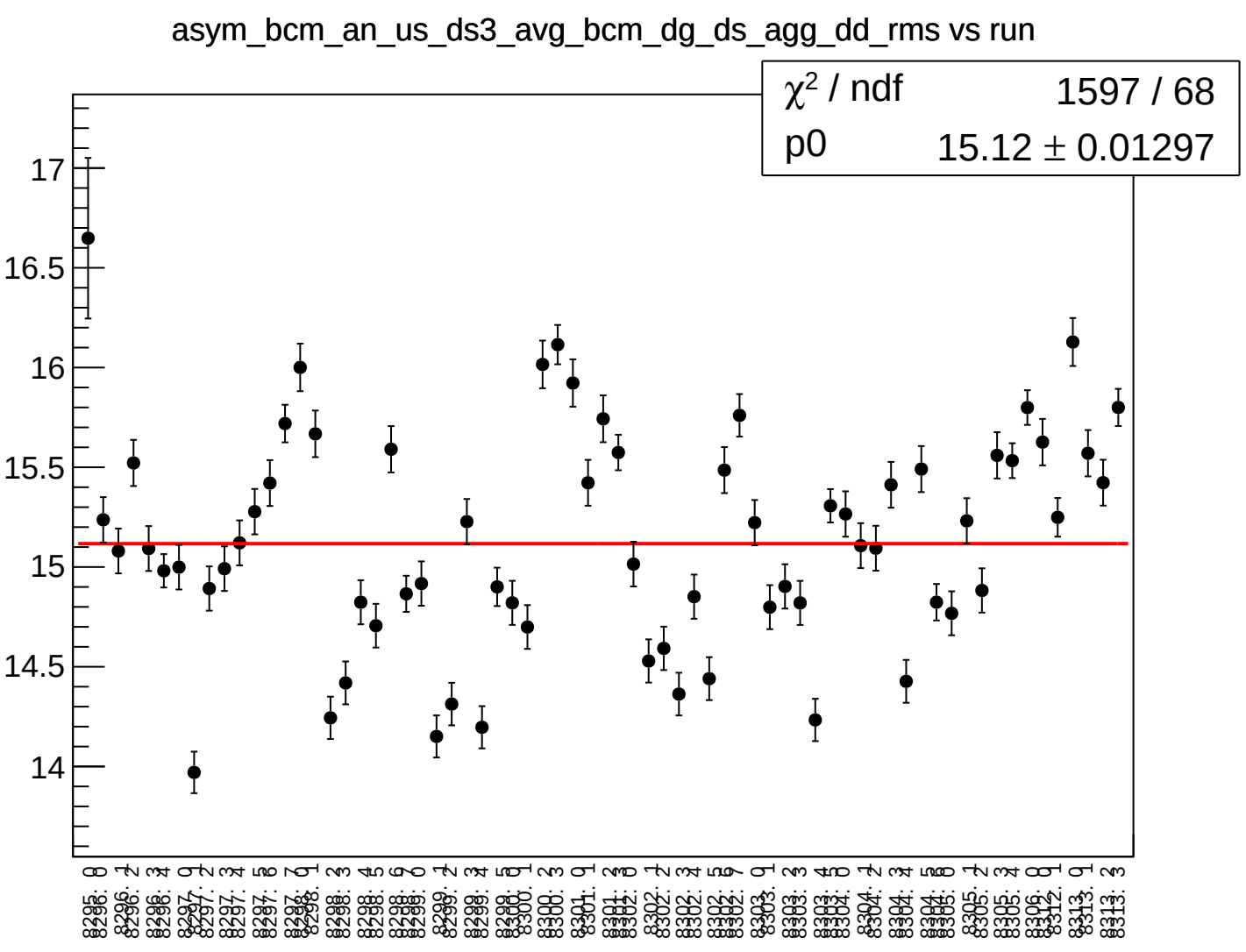

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 63.43 / 68
p0 11.67 ± 25.2
pull
Entries 69
Mean 2956
Std Dev 2910

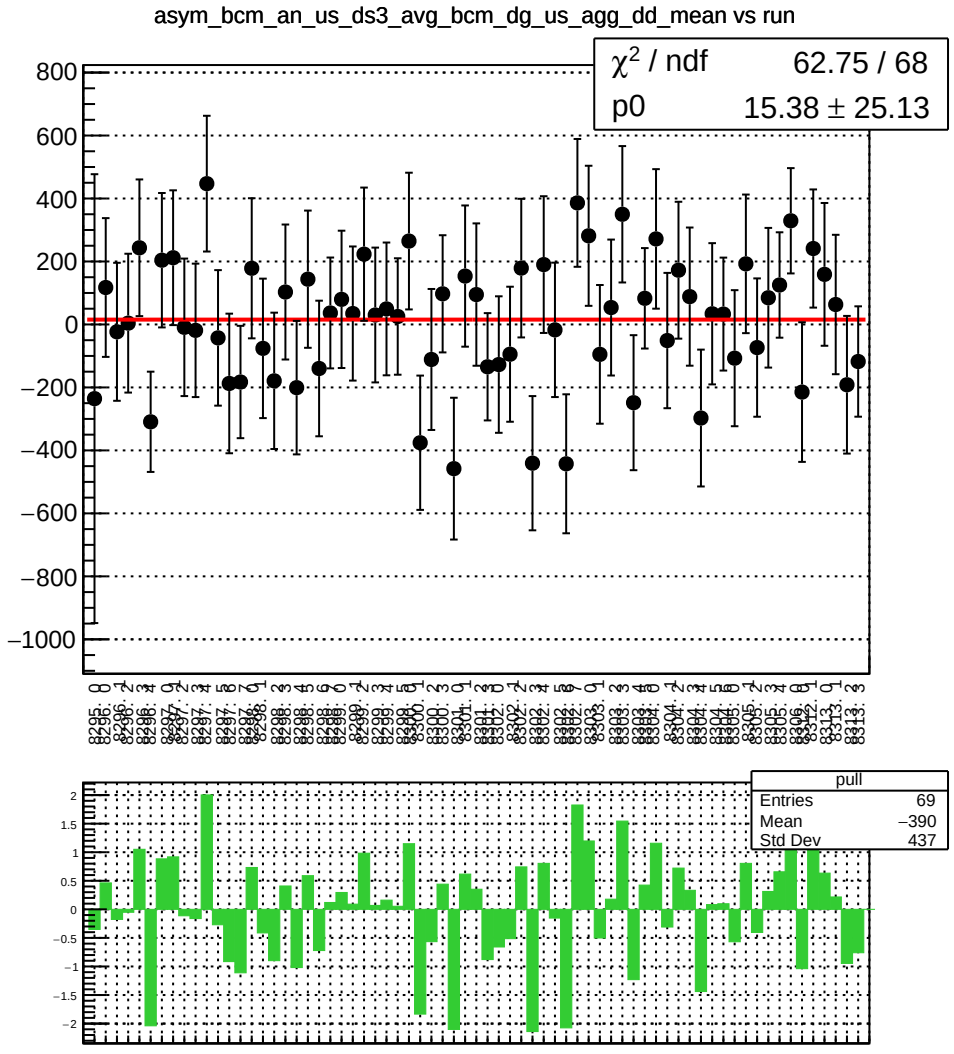

pull1D
Entries 69
Mean 0.0004427
Std Dev 0.9588

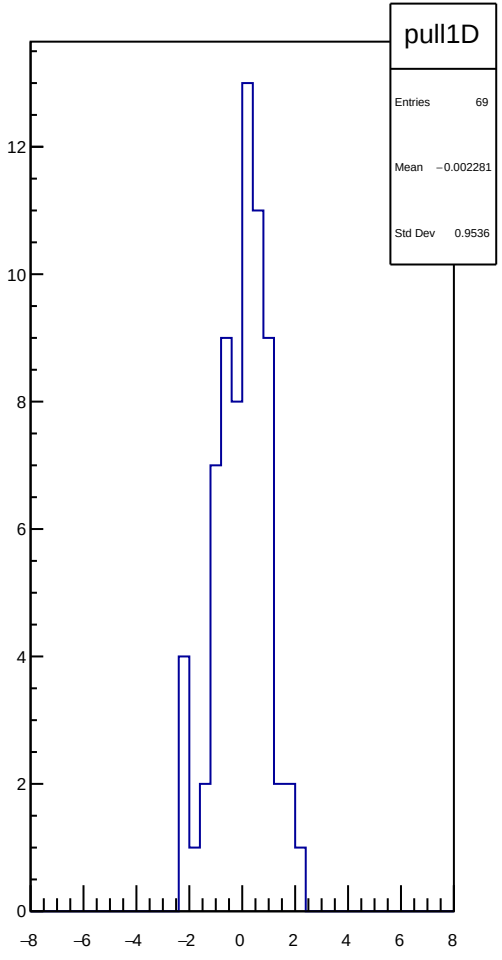

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 481.7 / 68
p0 20.78 ± 0.01782
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2
20
19.8

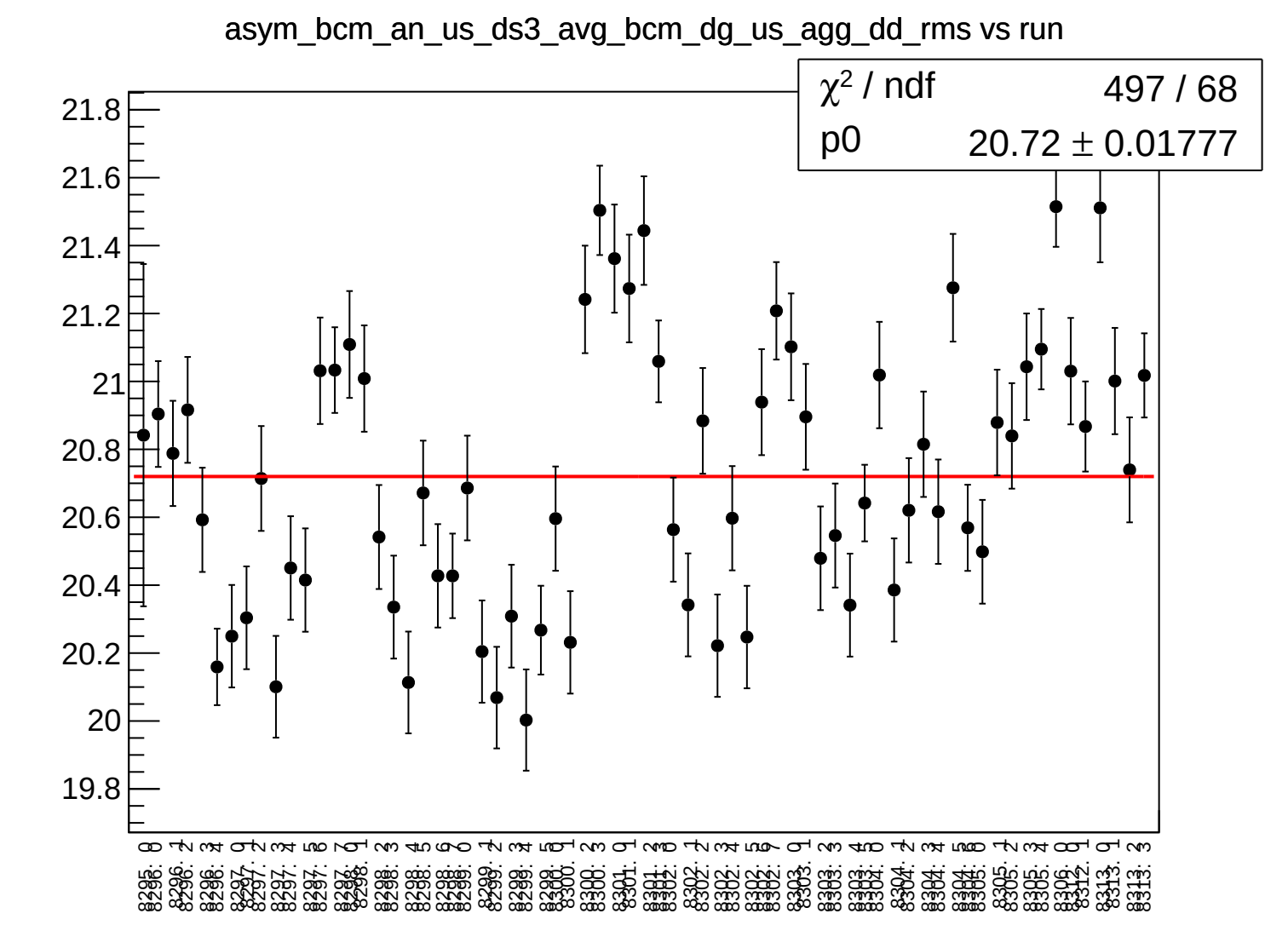

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.99 / 68
p0 −17.67 ± 18.34
pull
Entries 69
Mean −151.4
Std Dev 168.6

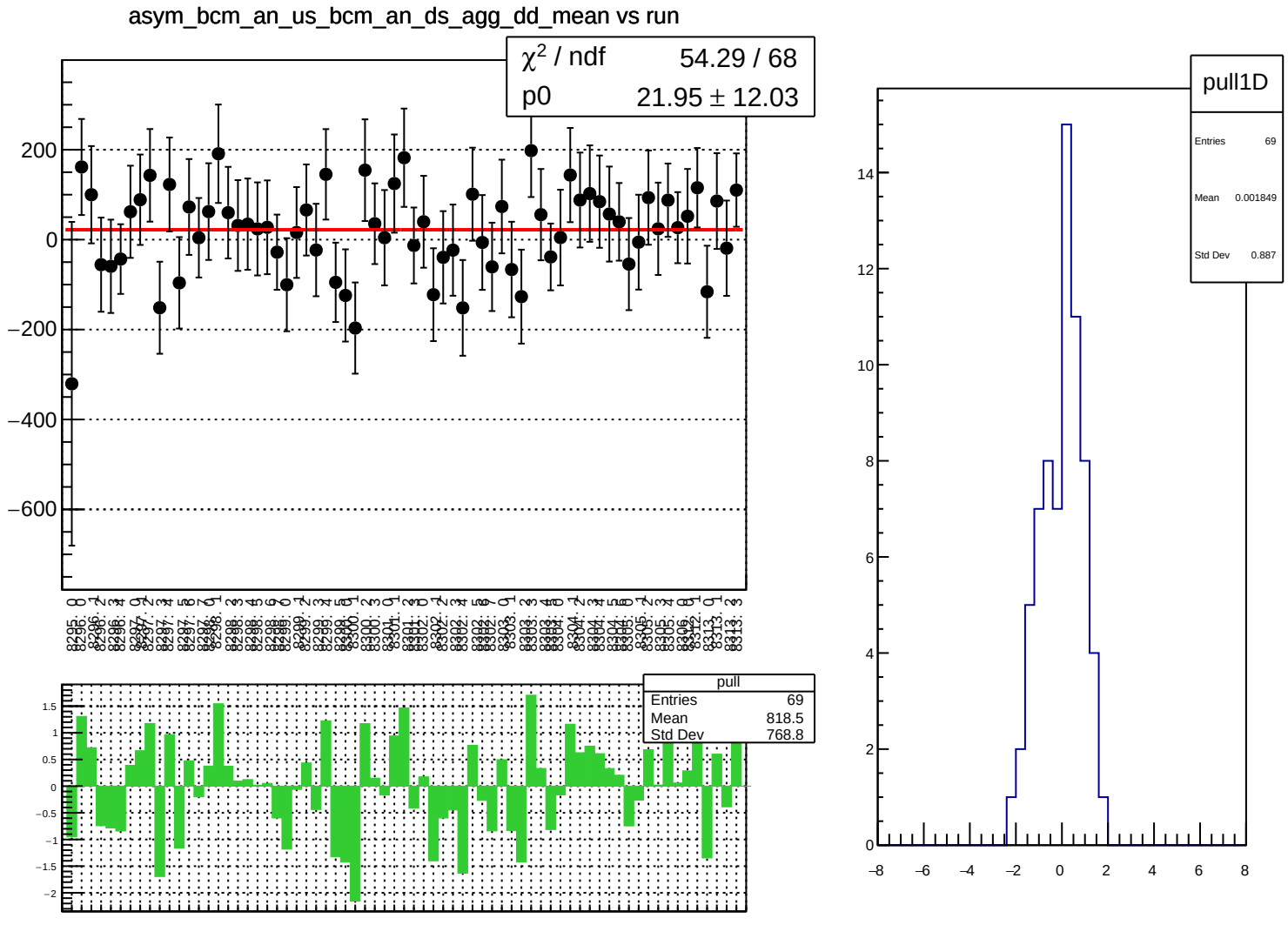

pull1D
Entries 69
Mean −0.01084
Std Dev 1.063

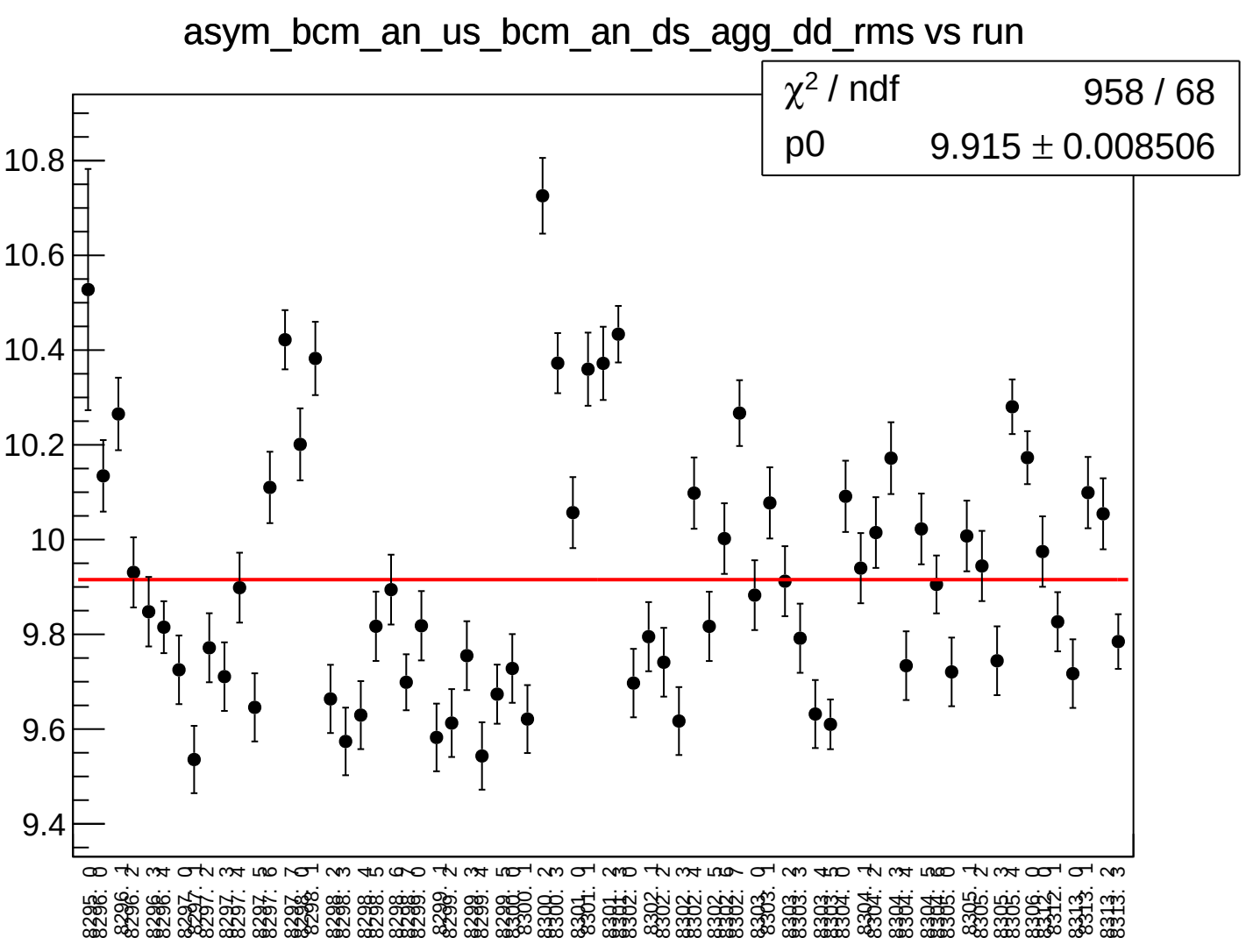

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1597 / 68
p0 15.12 ± 0.01297
17
16.5
16
15.5
15
14.5
14

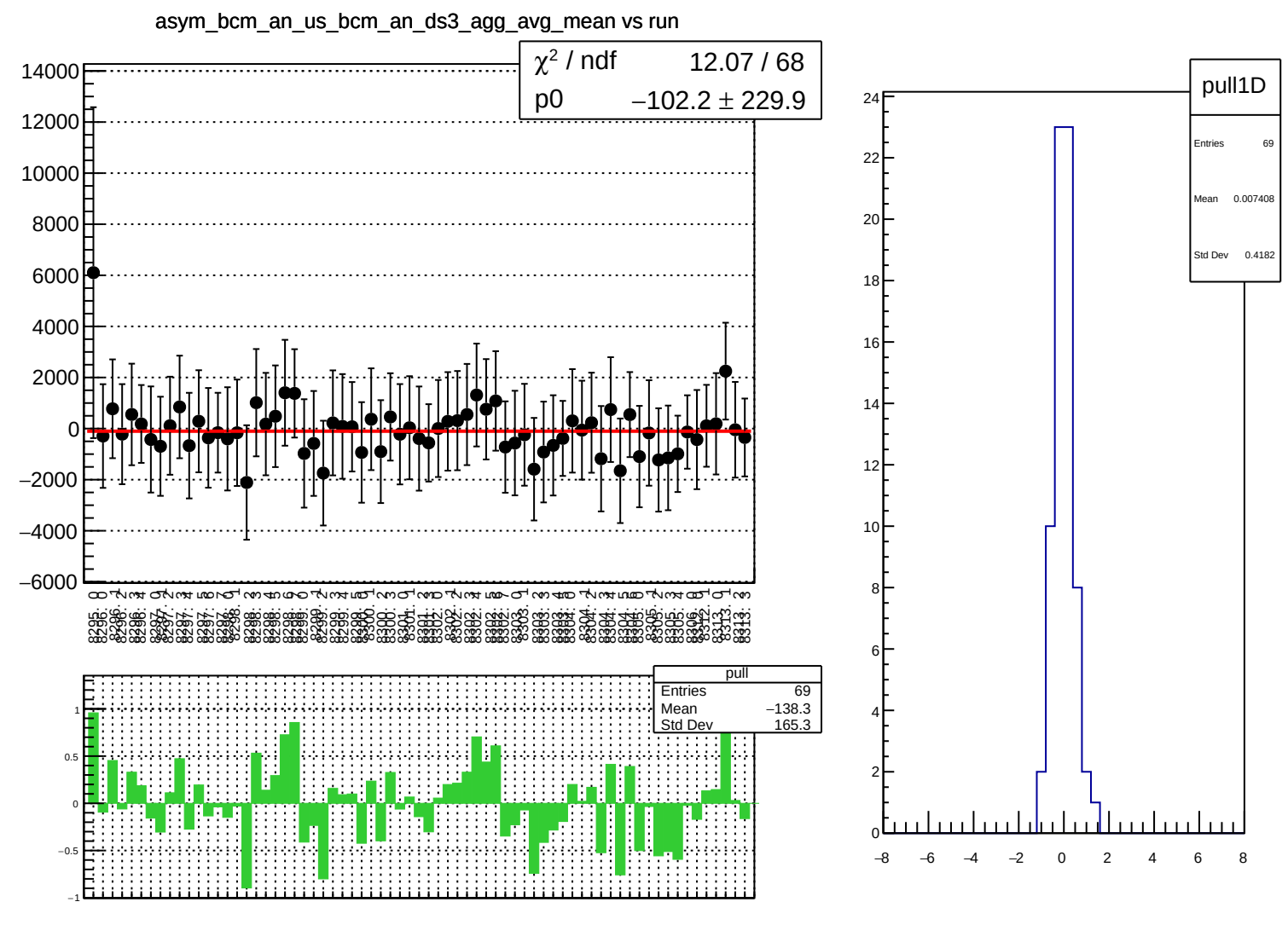

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 62.75 / 68
p0 15.38 ± 25.13
pull
Entries 69
Mean −390
Std Dev 437

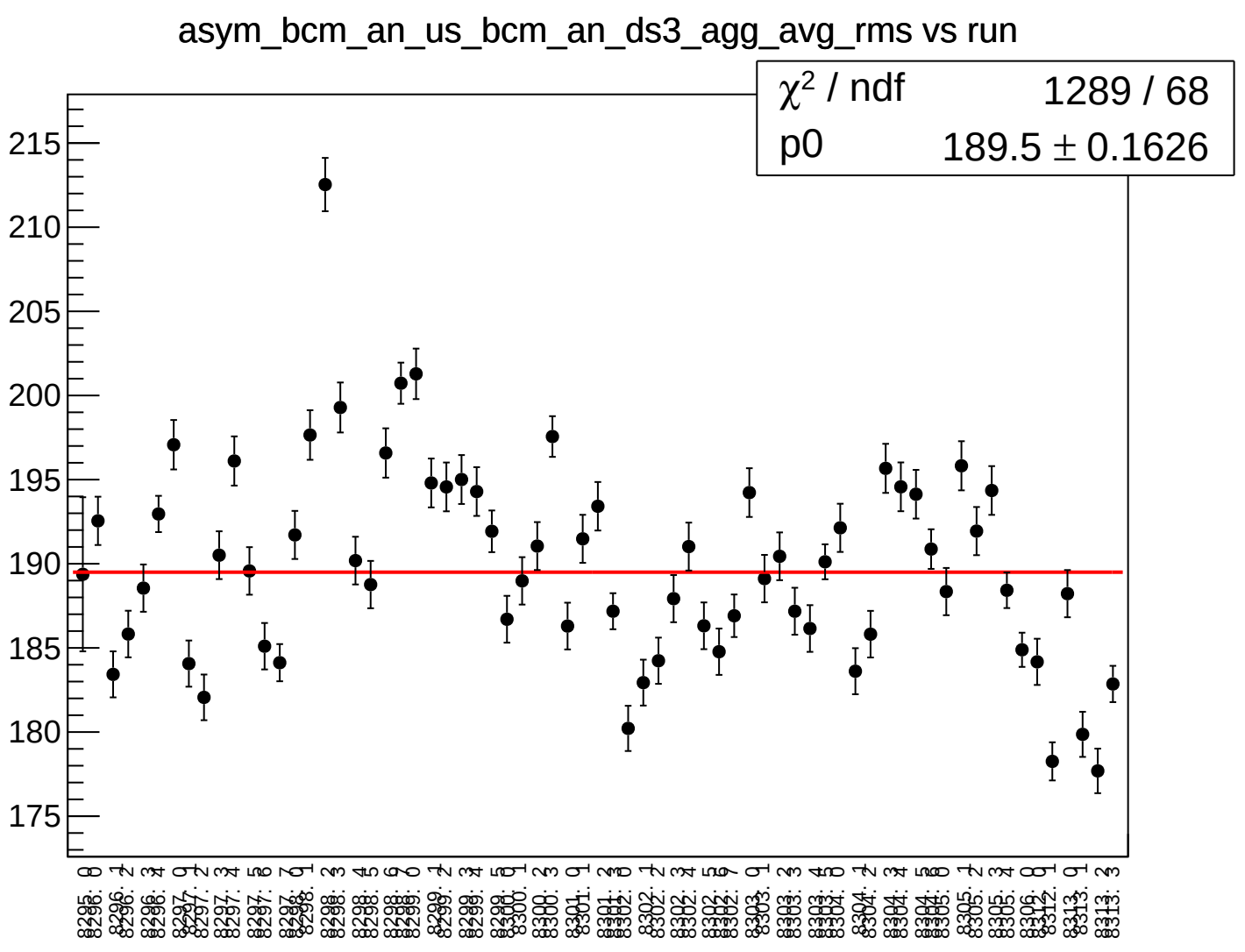

pull1D
Entries 69
Mean −0.002281
Std Dev 0.9536

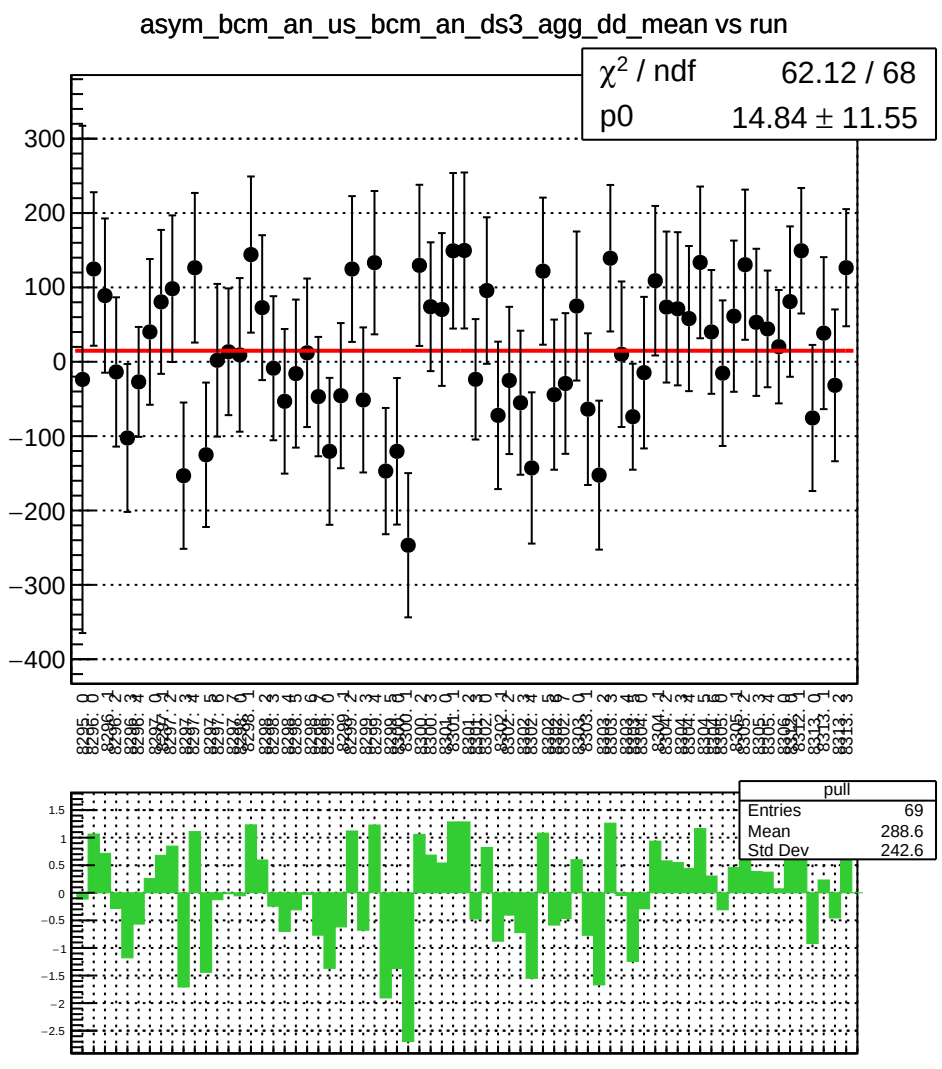

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 497 / 68
p0 20.72 ± 0.01777
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2
20
19.8

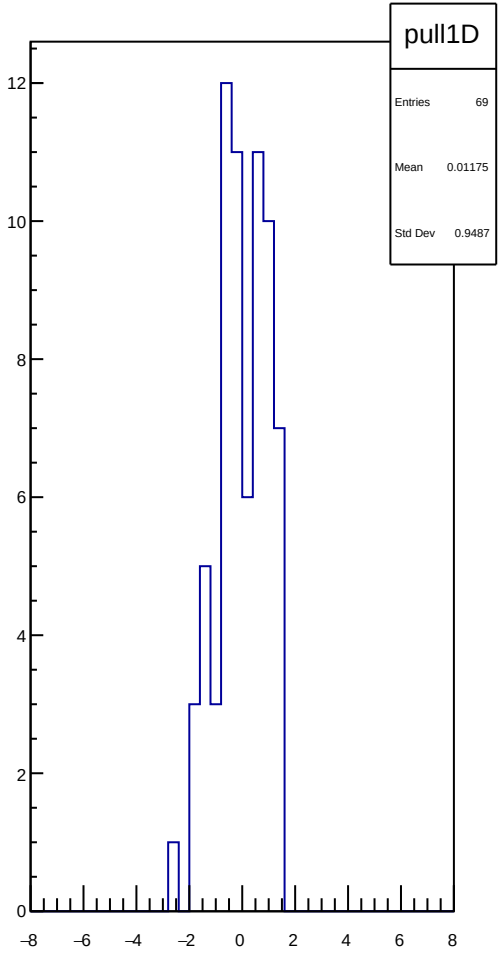

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 54.29 / 68
p0 21.95 ± 12.03
pull
Entries 69
Mean 818.5
Std Dev 768.8
pull1D
Entries 69
Mean 0.001849
Std Dev 0.887

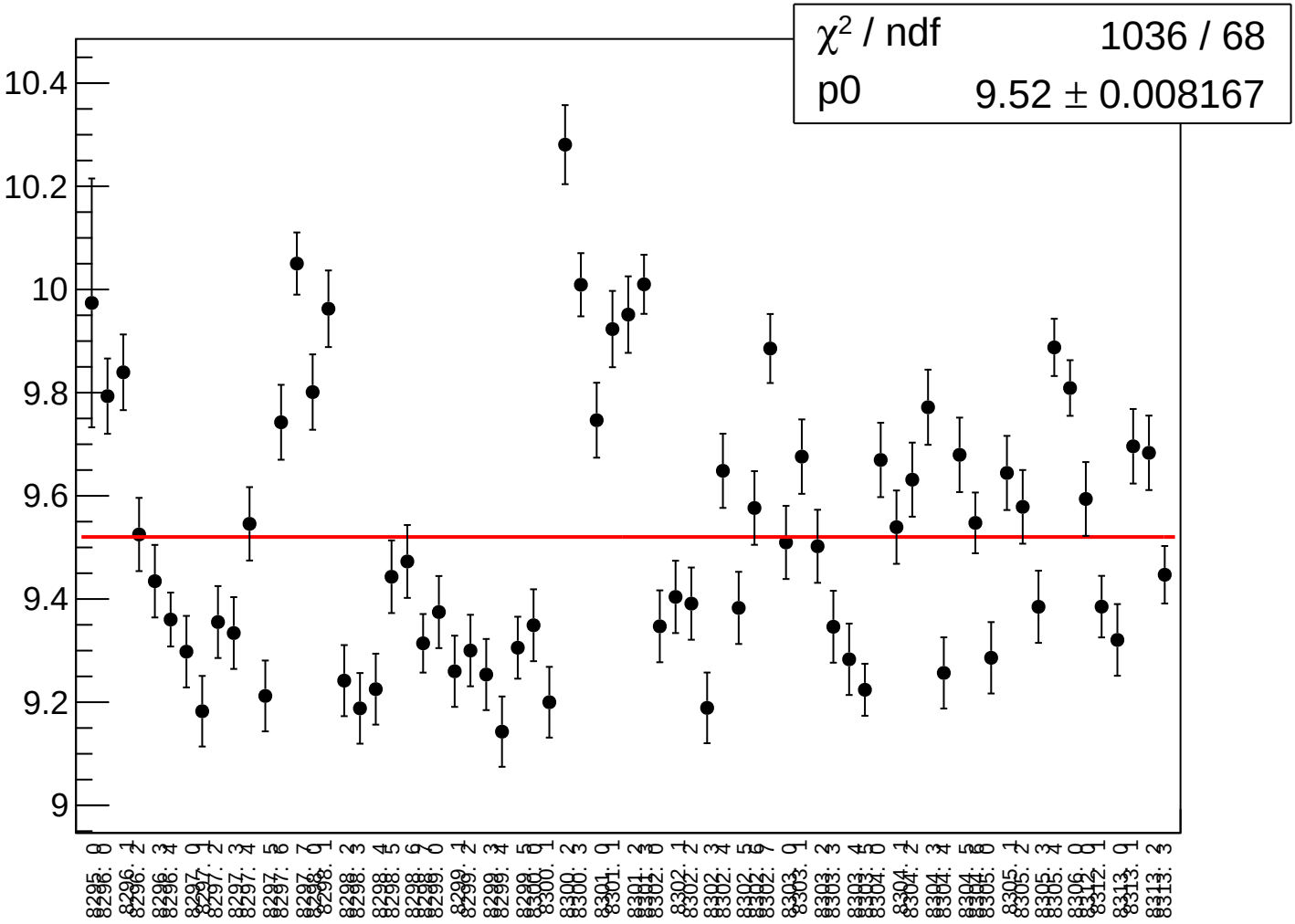

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 958 / 68
p0 9.915 ± 0.008506
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

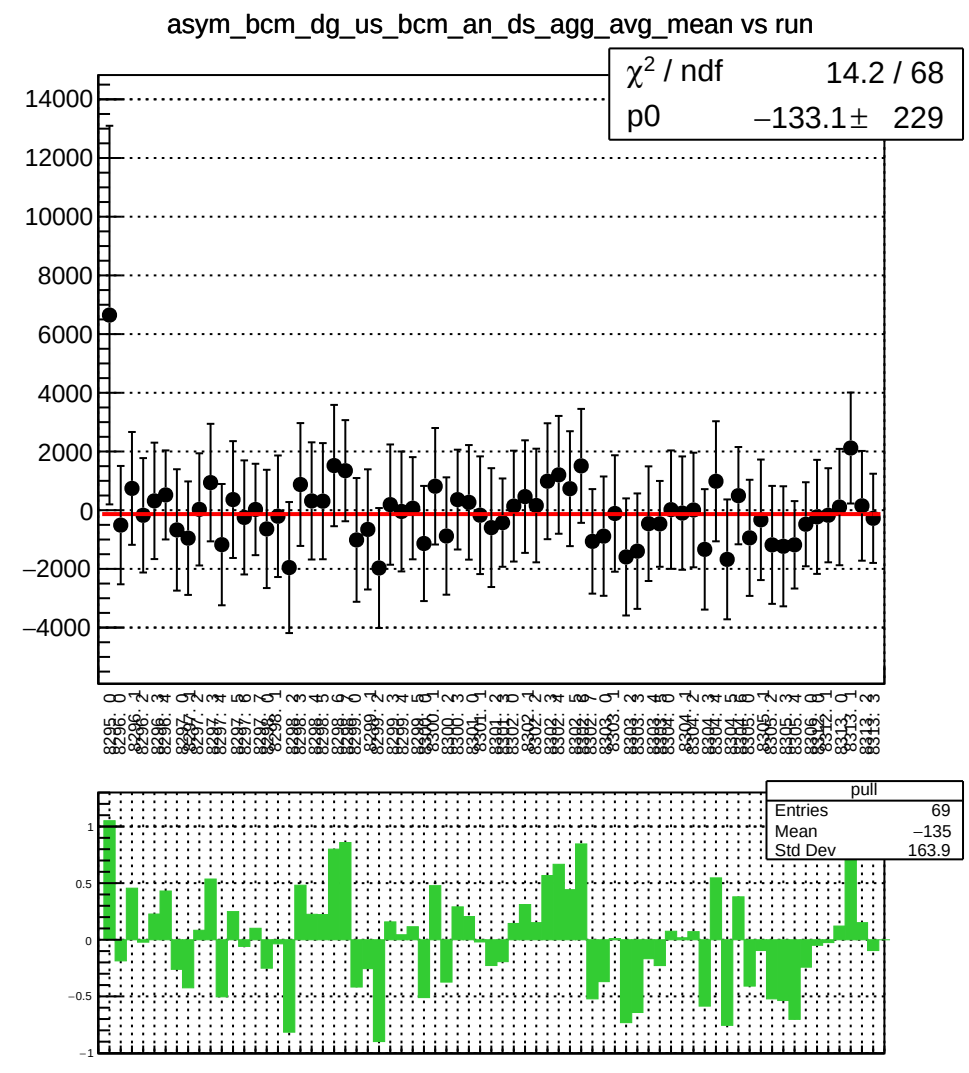

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.07 / 68
p0 −102.2 ± 229.9
pull
Entries 69
Mean −138.3
Std Dev 165.3
pull1D
Entries 69
Mean 0.007408
Std Dev 0.4182

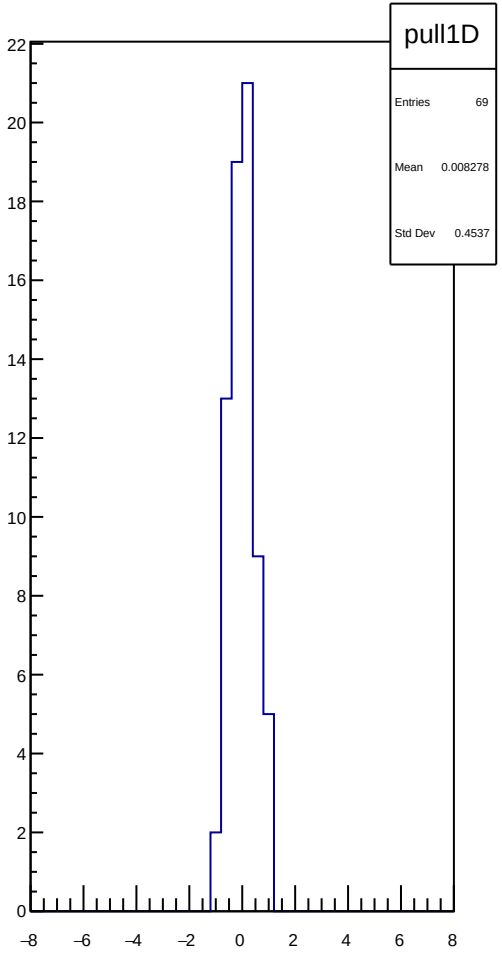

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1289 / 68
p0 189.5 ± 0.1626
215
210
205
200
195
190
185
180
175

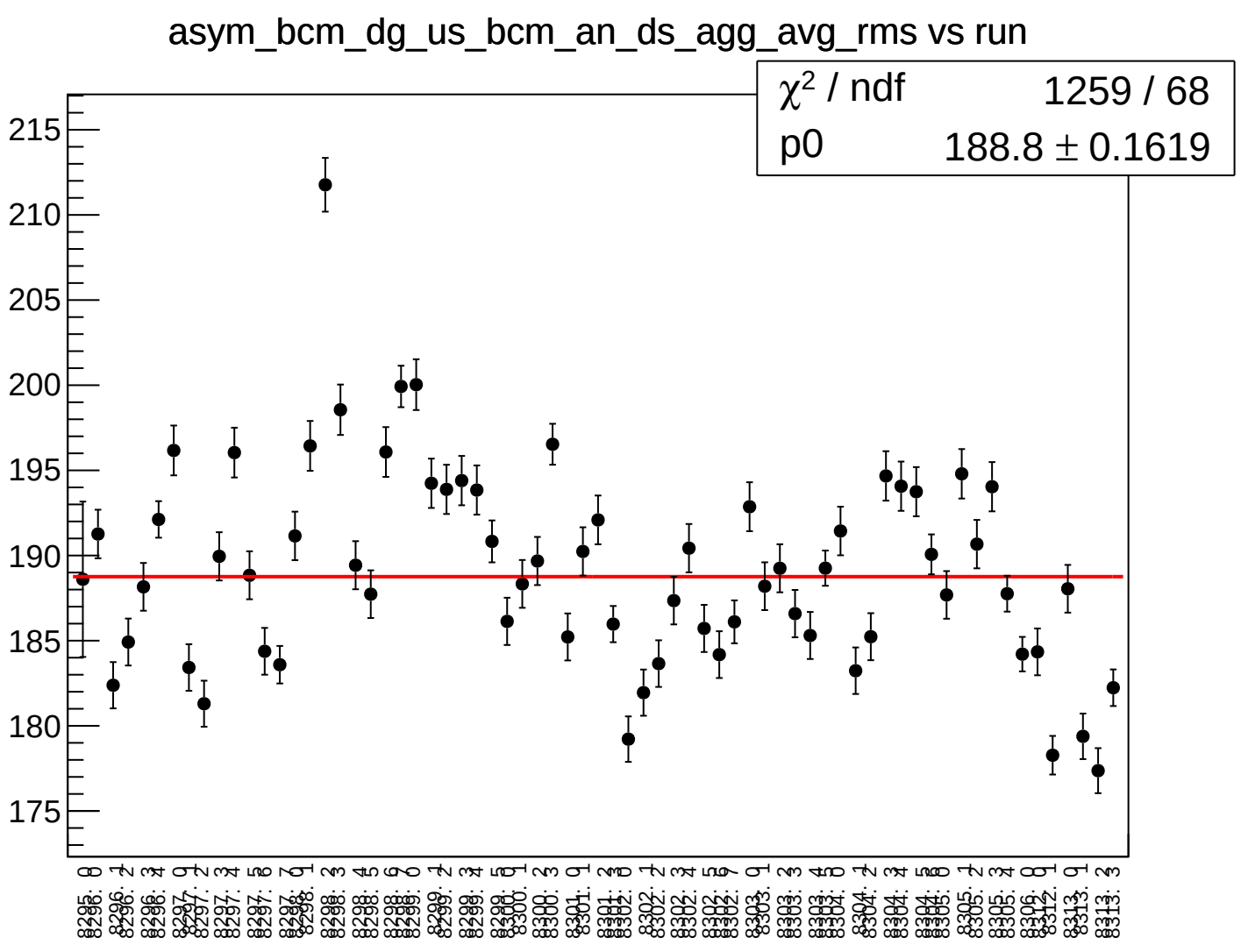

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 62.12 / 68
p0 14.84 ± 11.55
pull
Entries 69
Mean 288.6
Std Dev 242.6

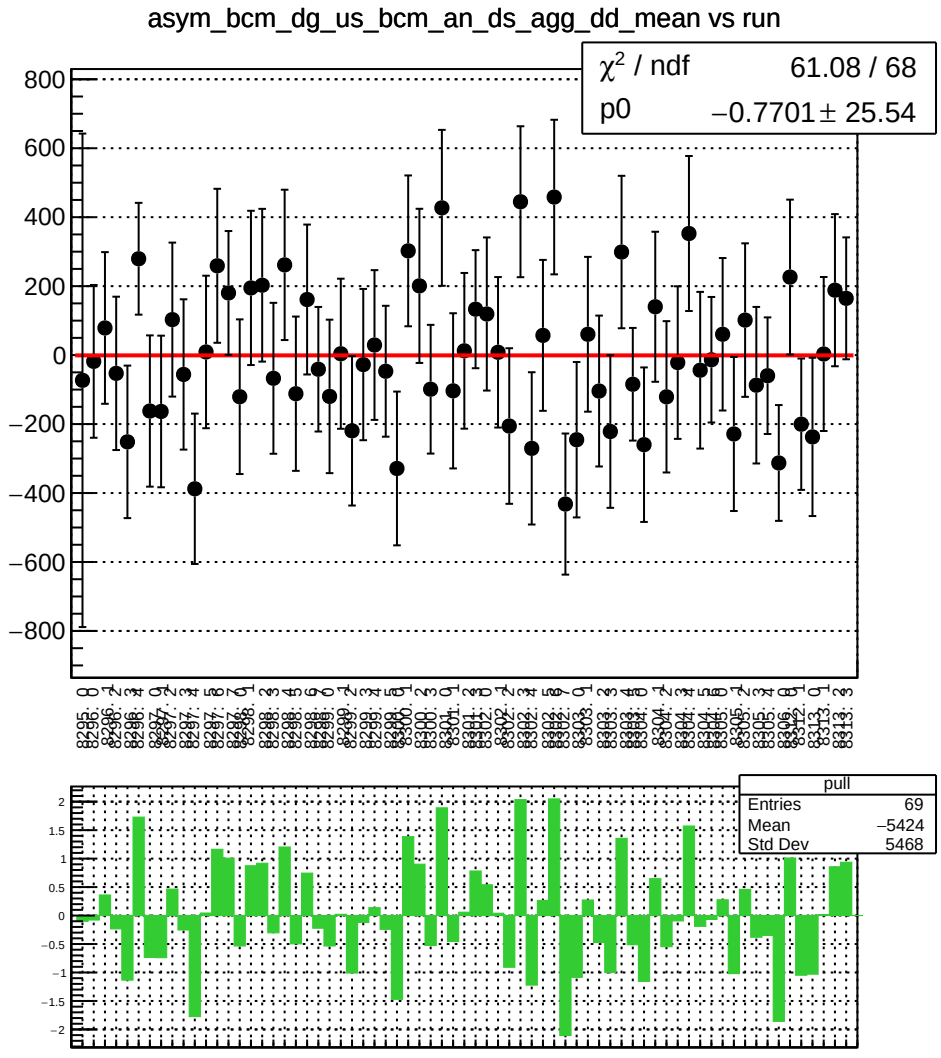

pull1D
Entries 69
Mean 0.01175
Std Dev 0.9487

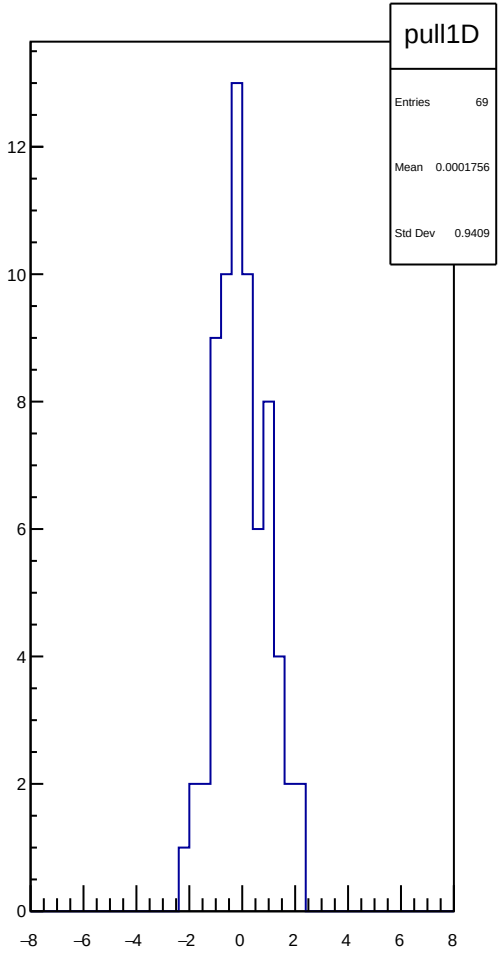

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1036 / 68
p0 9.52 ± 0.008167
10.4
10.2
10
9.8
9.6
9.4
9.2
9

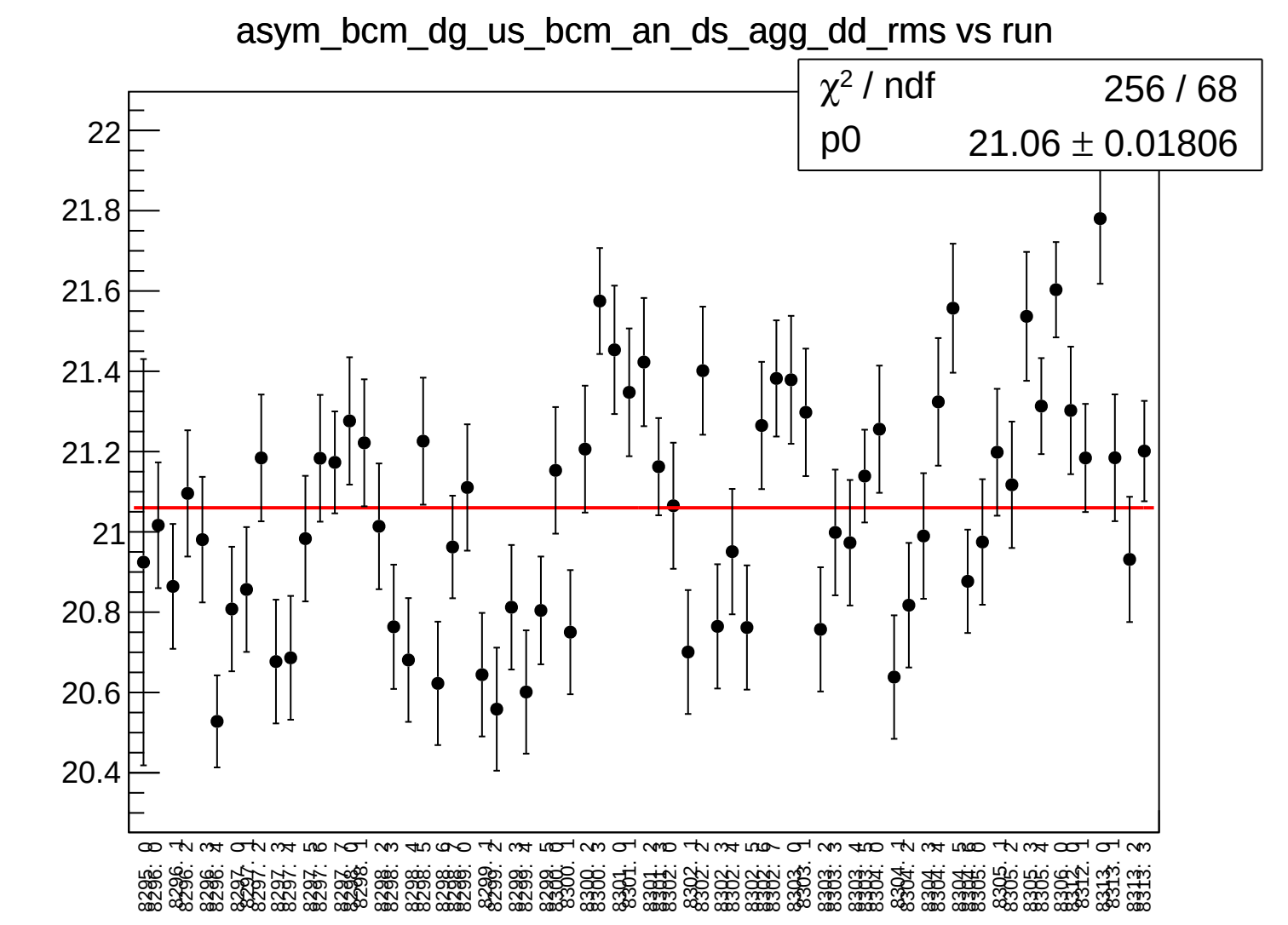

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.2 / 68
p0 −133.1± 229
pull
Entries 69
Mean −135
Std Dev 163.9

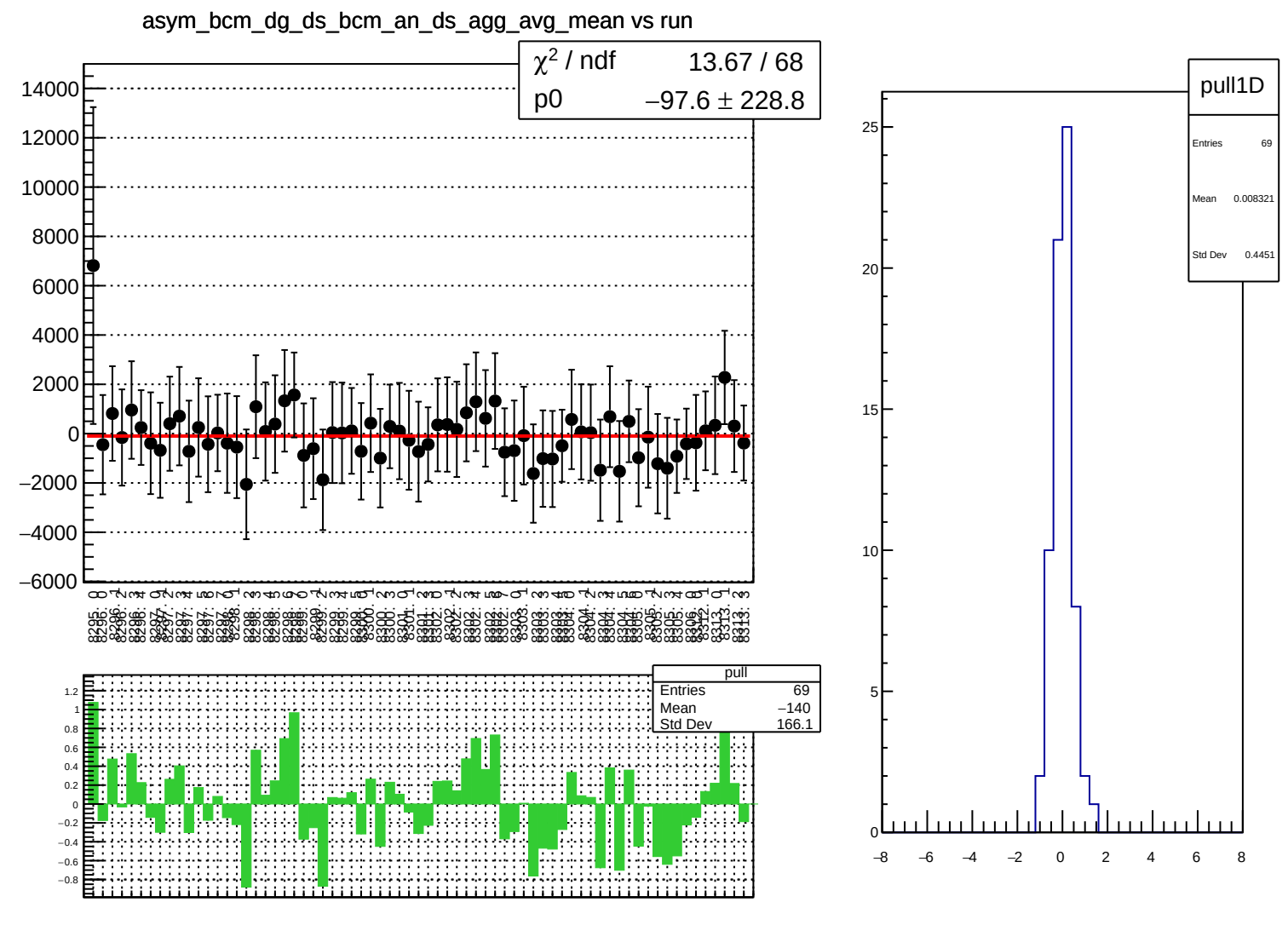

pull1D
Entries 69
Mean 0.008278
Std Dev 0.4537

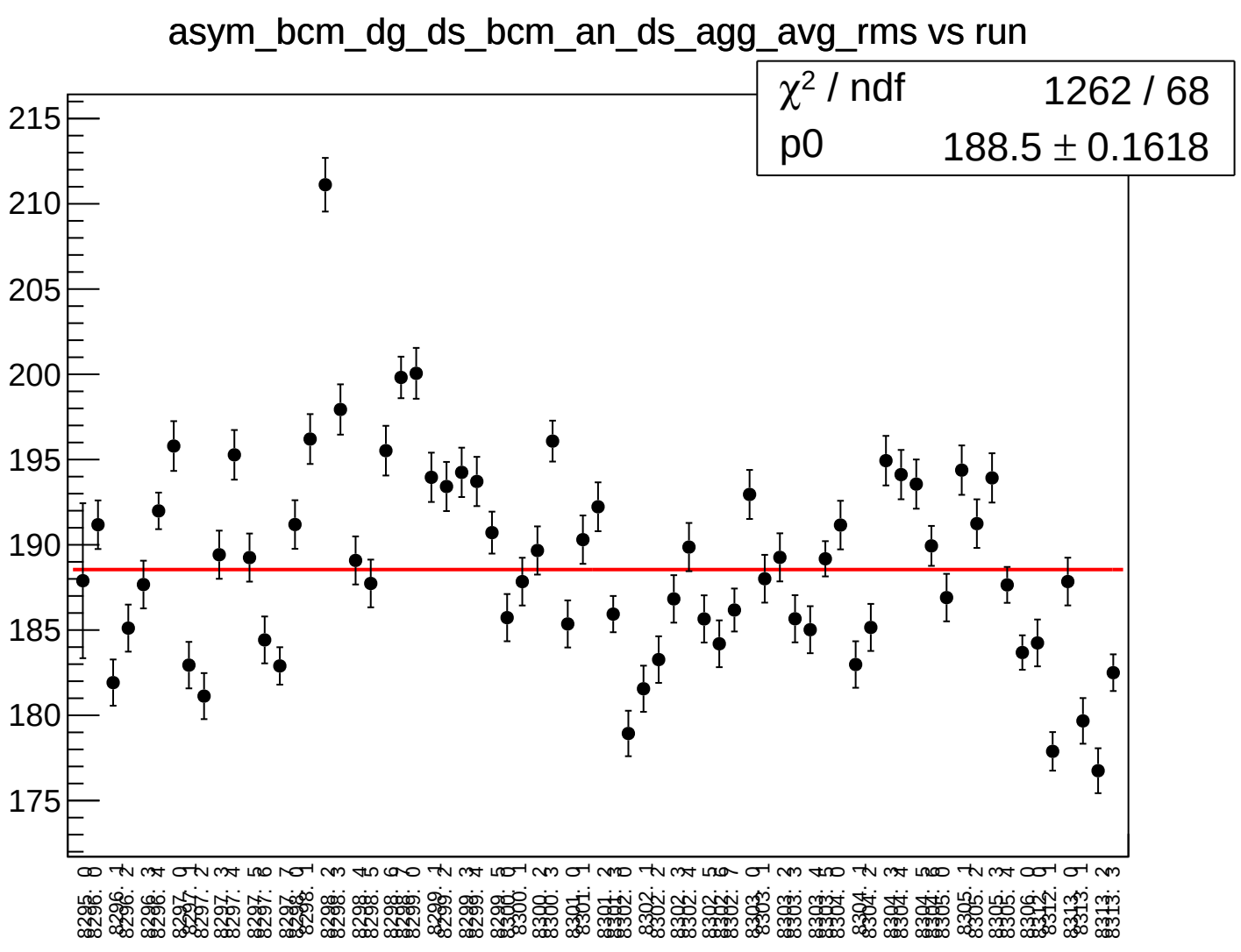

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1259 / 68
p0 188.8 ± 0.1619
215
210
205
200
195
190
185
180
175

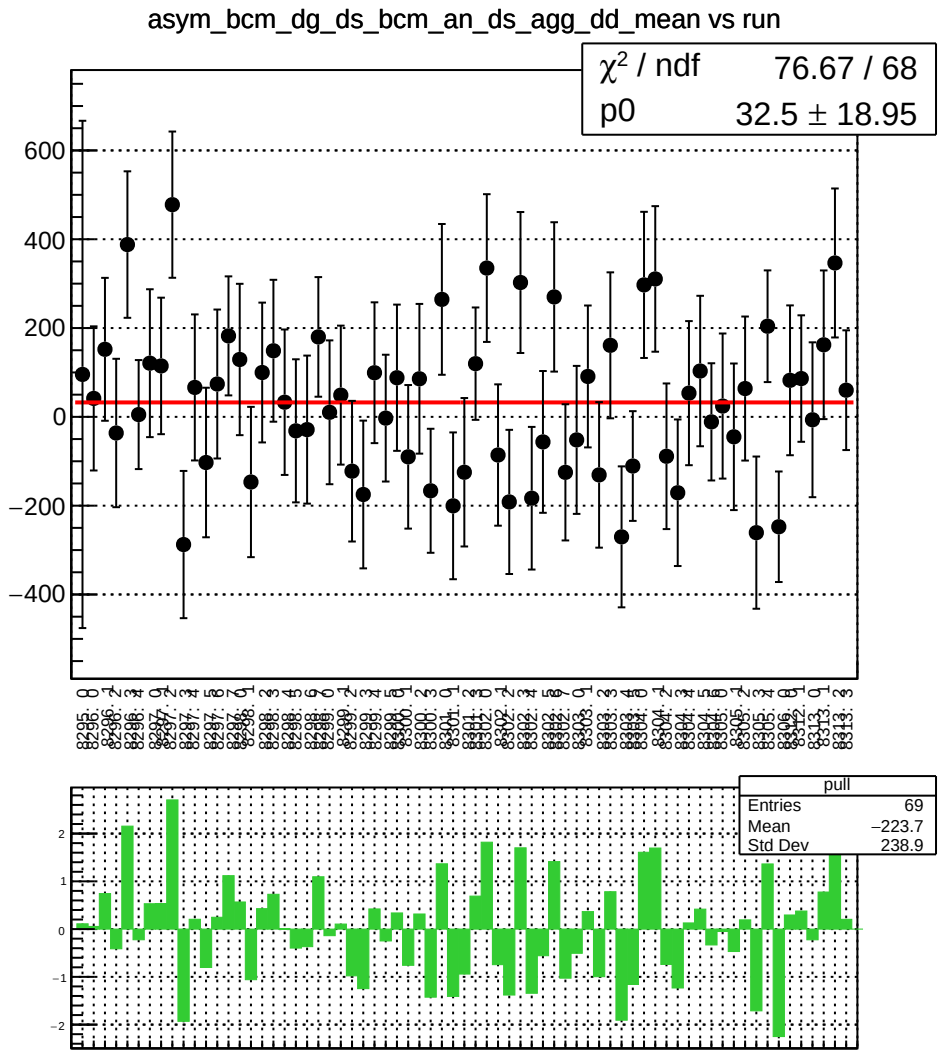

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 61.08 / 68
p0 −0.7701 ± 25.54
pull
Entries 69
Mean −5424
Std Dev 5468

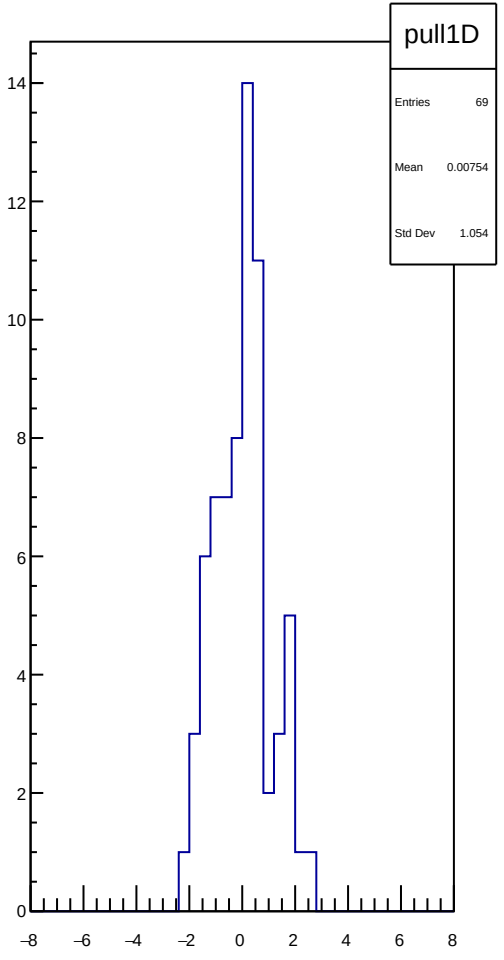

pull1D
Entries 69
Mean 0.0001756
Std Dev 0.9409

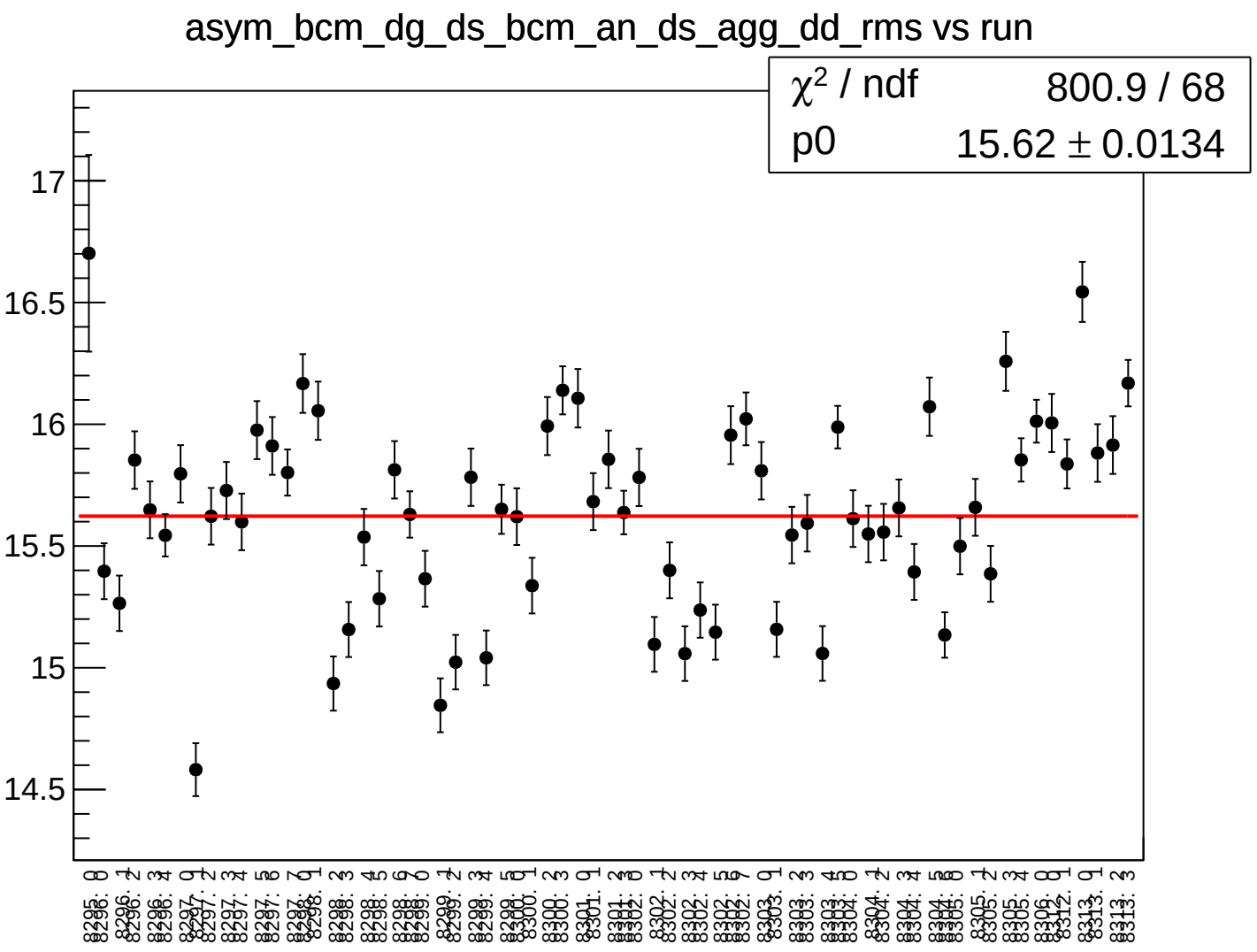

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 256 / 68
p0 21.06 ± 0.01806
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

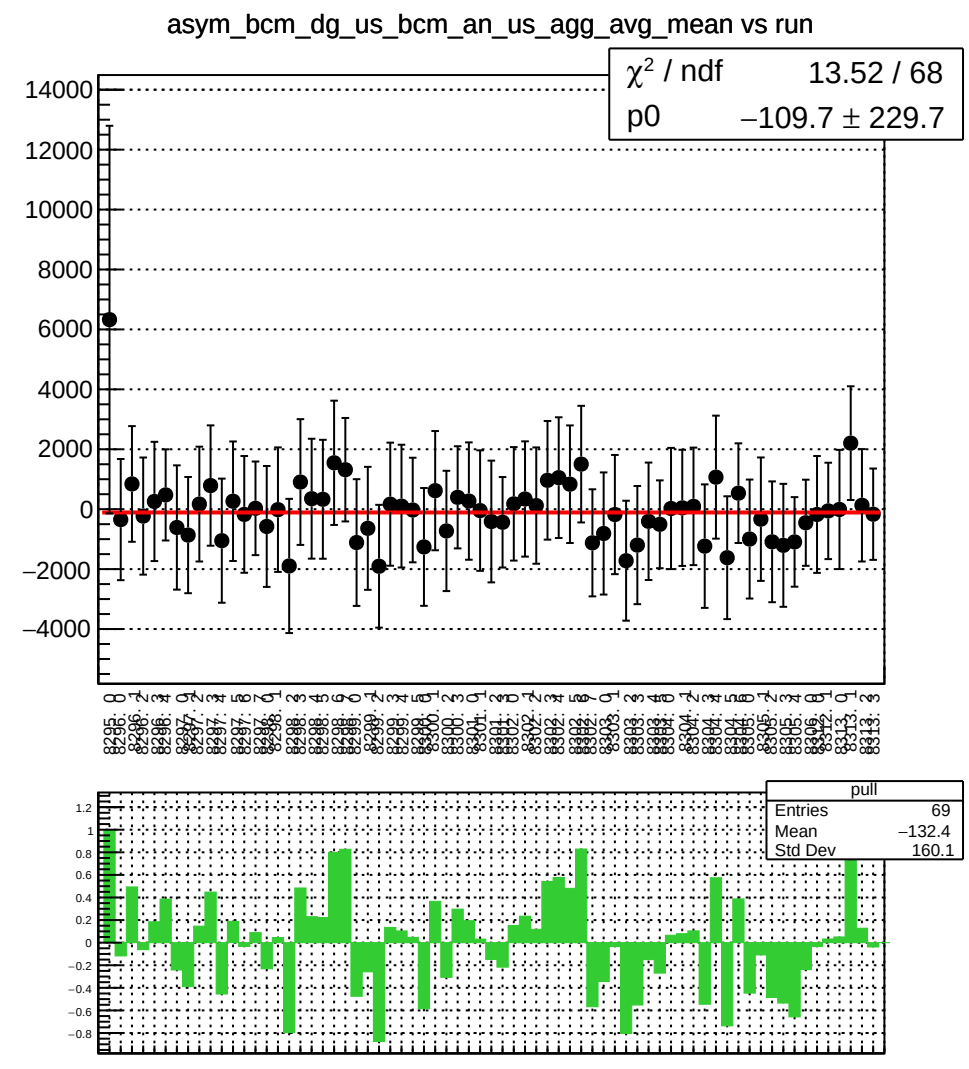

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.67 / 68
p0 −97.6 ± 228.8
pull
Entries 69
Mean −140
Std Dev 166.1
pull1D
Entries 69
Mean 0.008321
Std Dev 0.4451

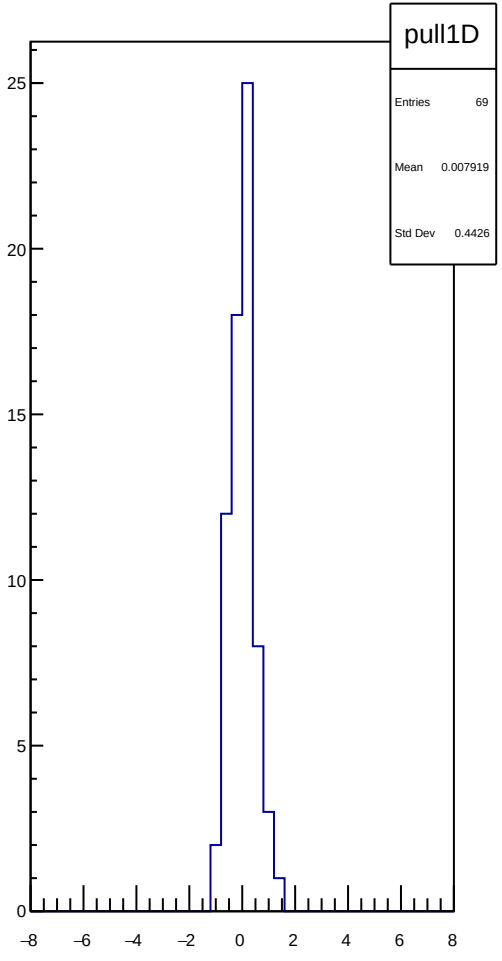

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1262 / 68
p0 188.5 ± 0.1618
215
210
205
200
195
190
185
180
175

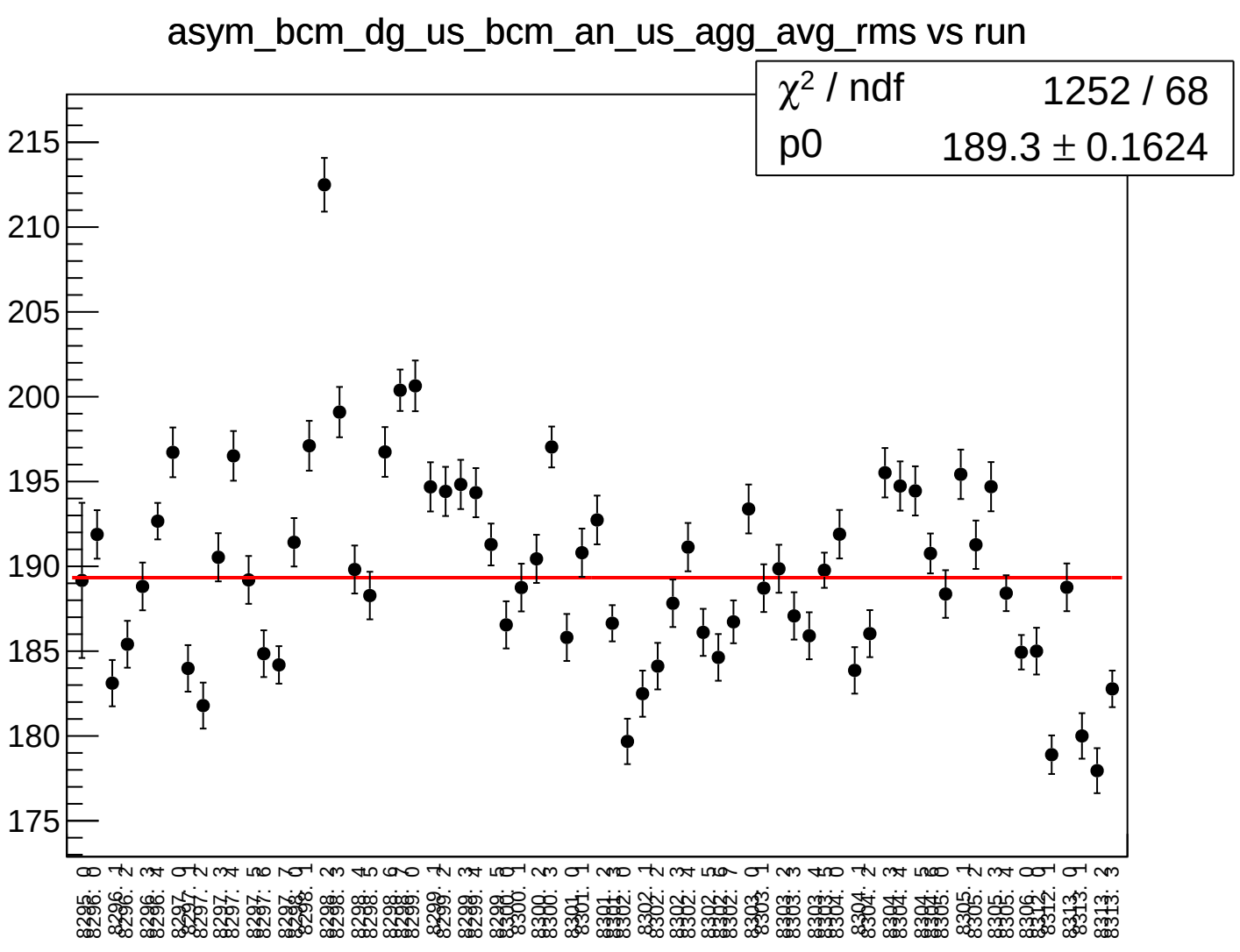

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 76.67 / 68
p0 32.5 ± 18.95
pull
Entries 69
Mean −223.7
Std Dev 238.9

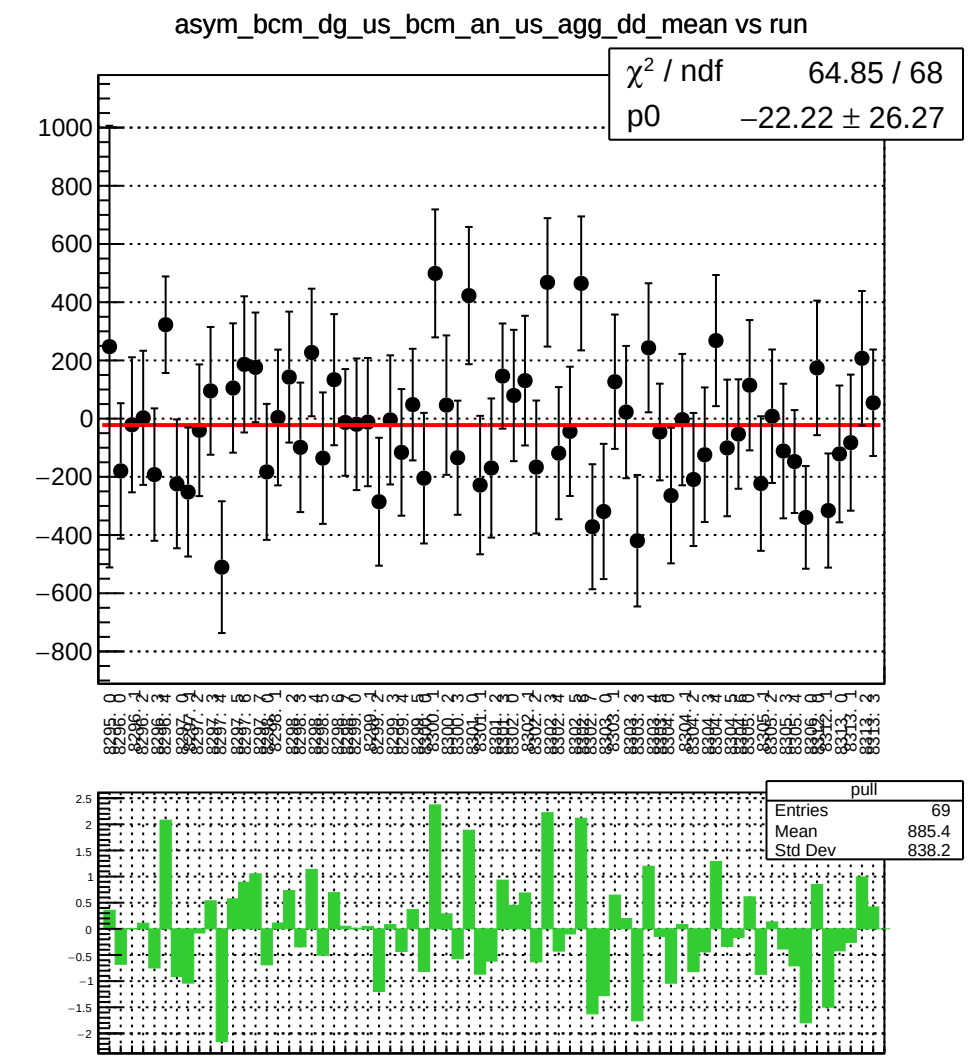

pull1D
Entries 69
Mean 0.00754
Std Dev 1.054

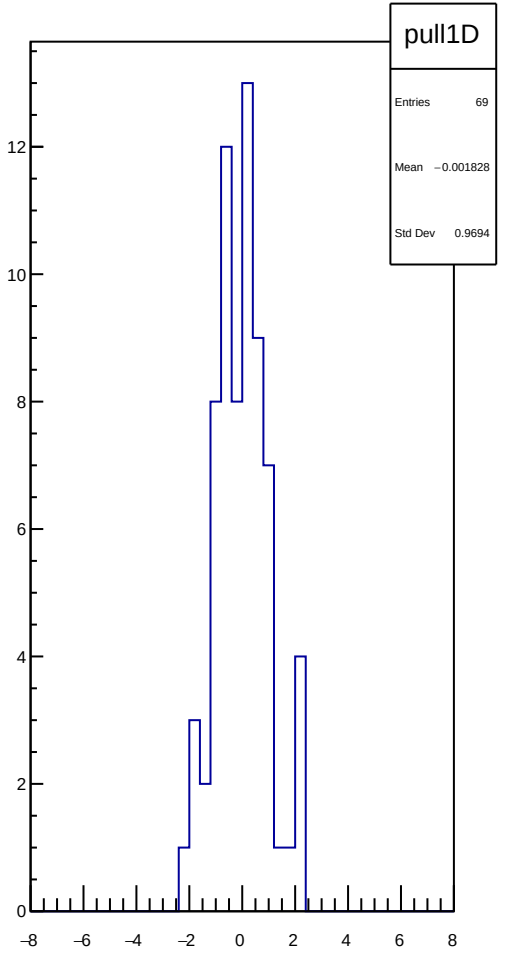

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 800.9 / 68
p0 15.62 ± 0.0134
17
16.5
16
15.5
15
14.5

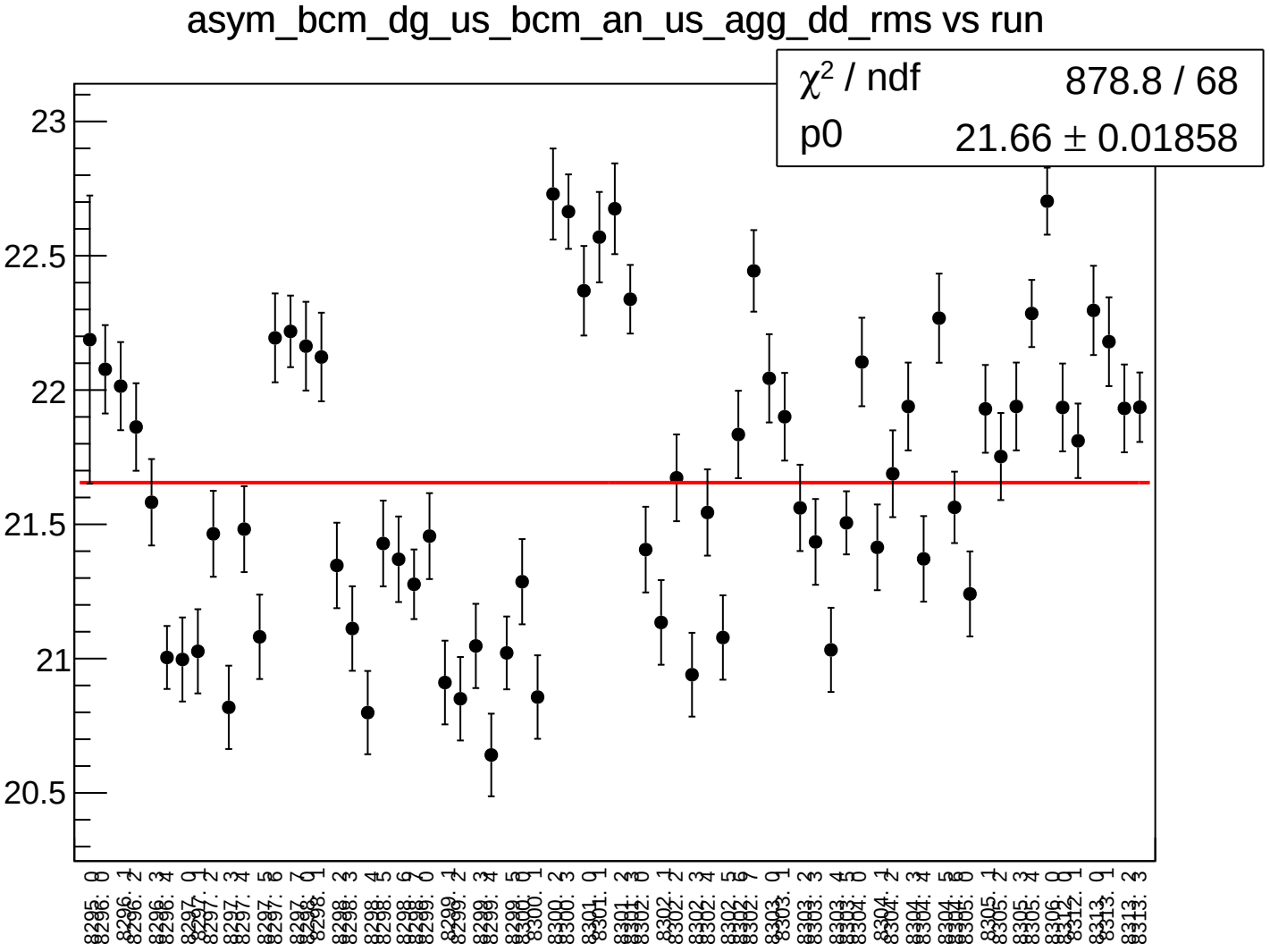

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.52 / 68
p0 −109.7 ± 229.7
pull
Entries 69
Mean −132.4
Std Dev 160.1

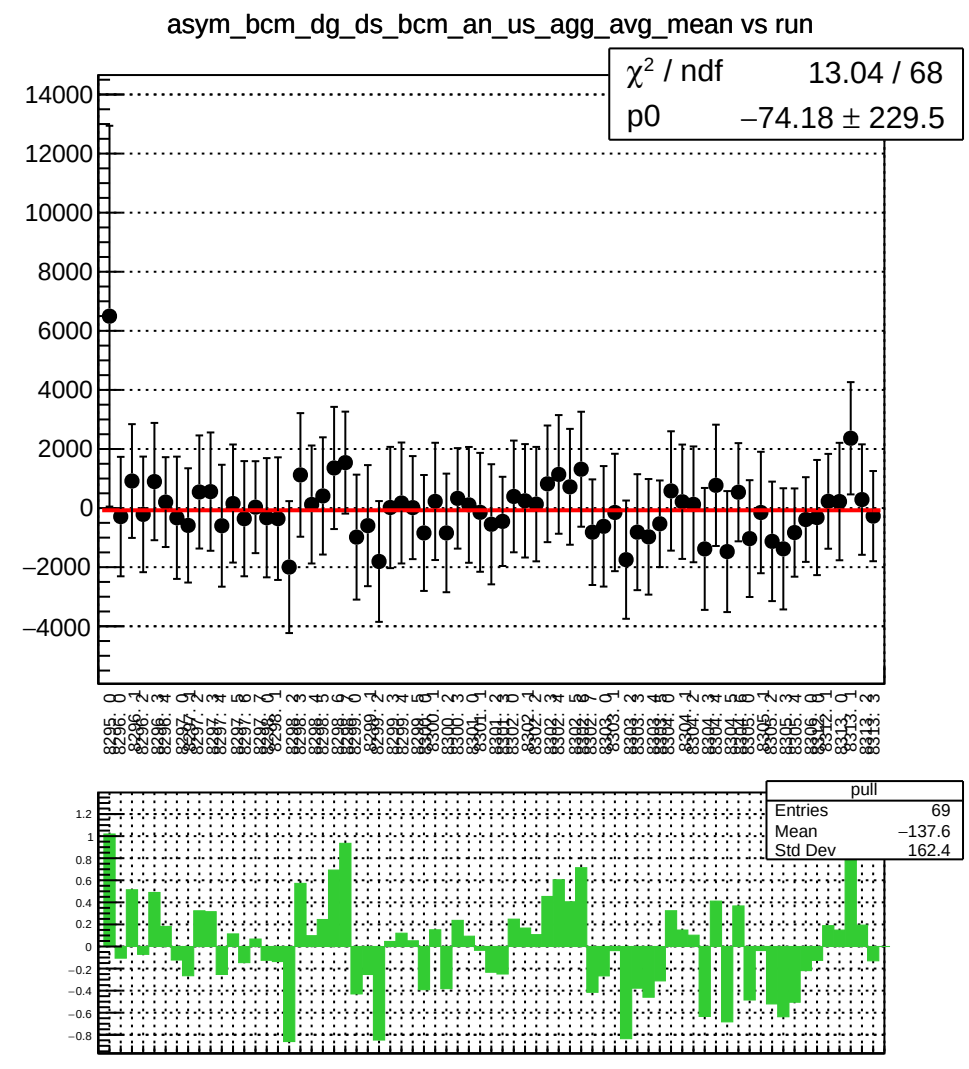

pull1D
Entries 69
Mean 0.007919
Std Dev 0.4426

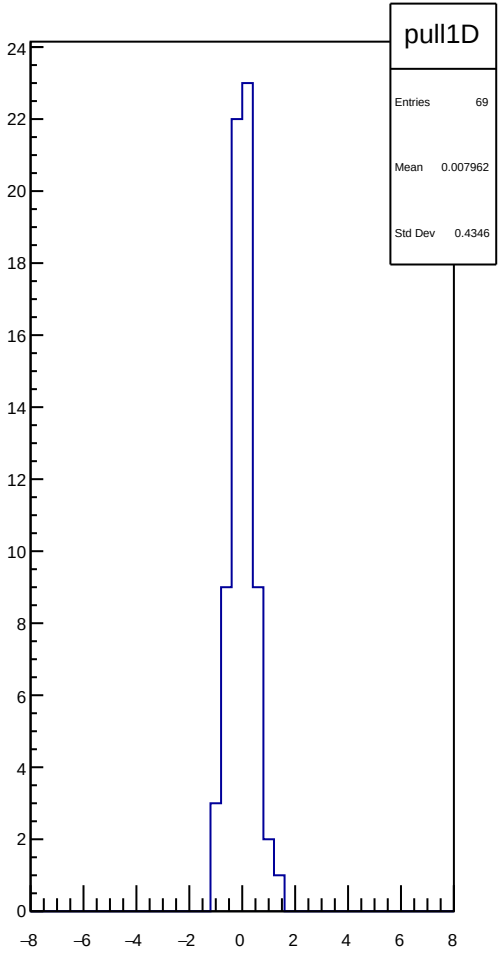

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1252 / 68
p0 189.3 ± 0.1624
215
210
205
200
195
190
185
180
175

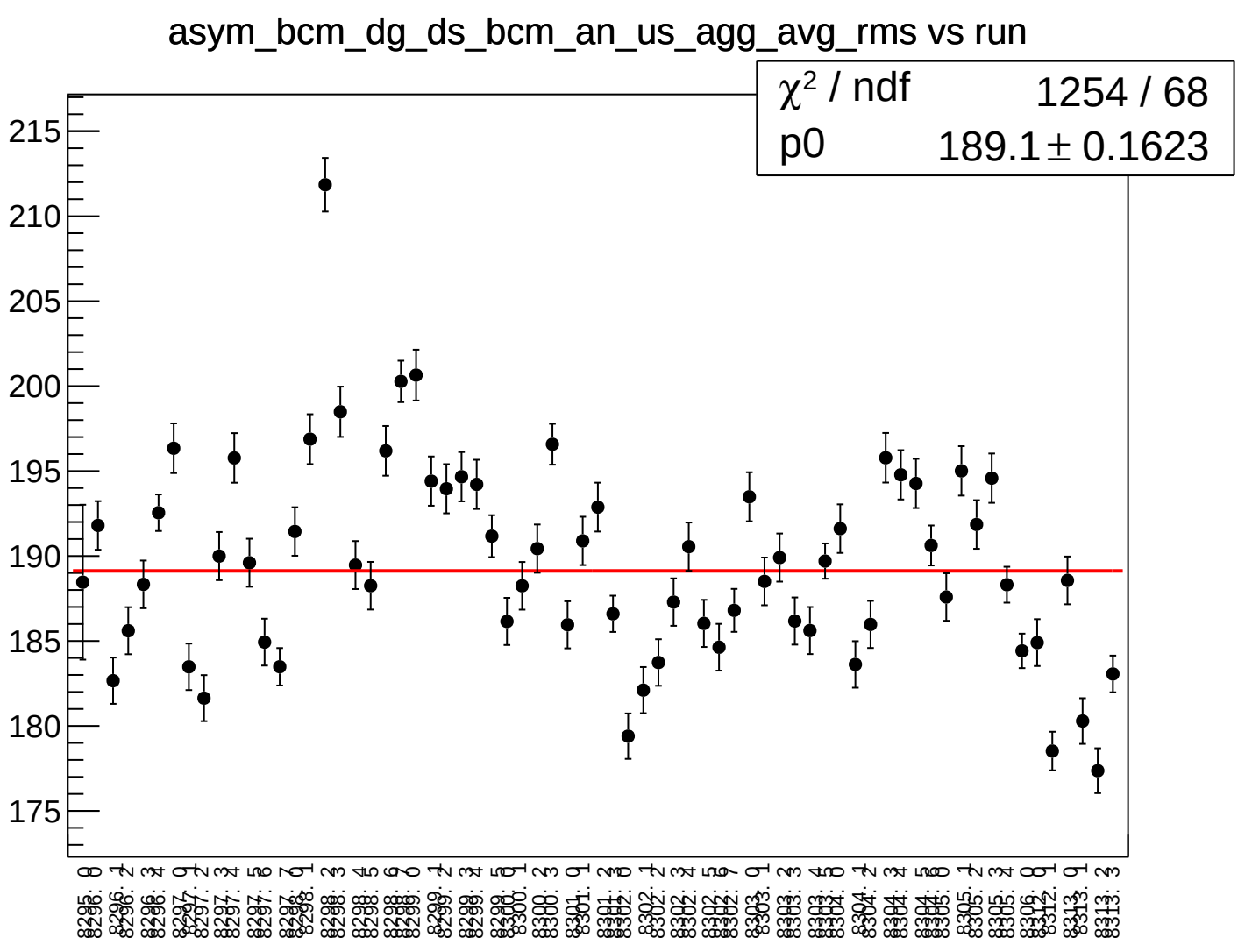

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 64.85 / 68
p0 −22.22 ± 26.27
pull
Entries 69
Mean 885.4
Std Dev 838.2

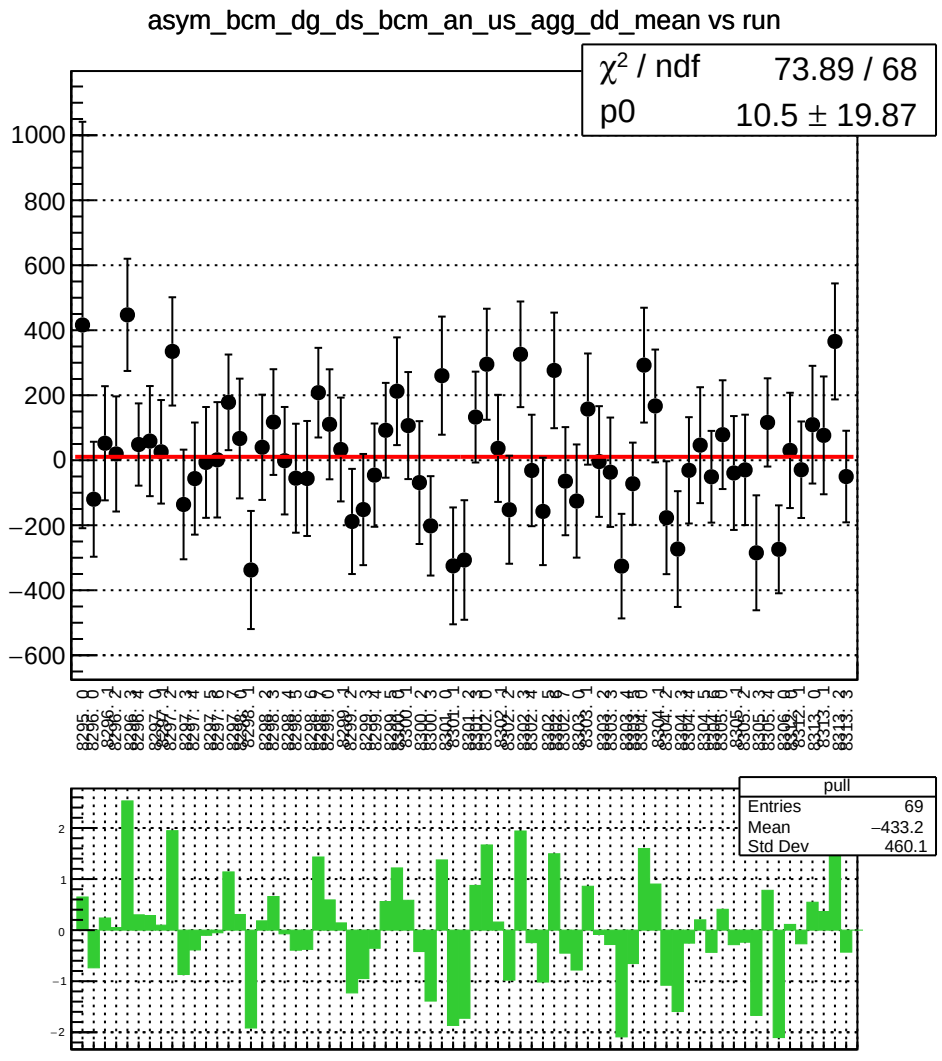

pull1D
Entries 69
Mean −0.001828
Std Dev 0.9694

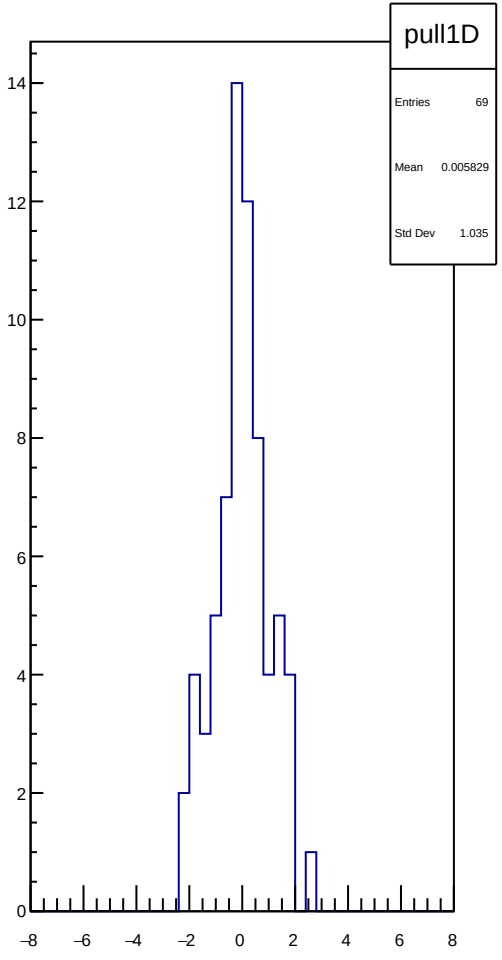

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 878.8 / 68
p0 21.66 ± 0.01858
23
22.5
22
21.5
21
20.5

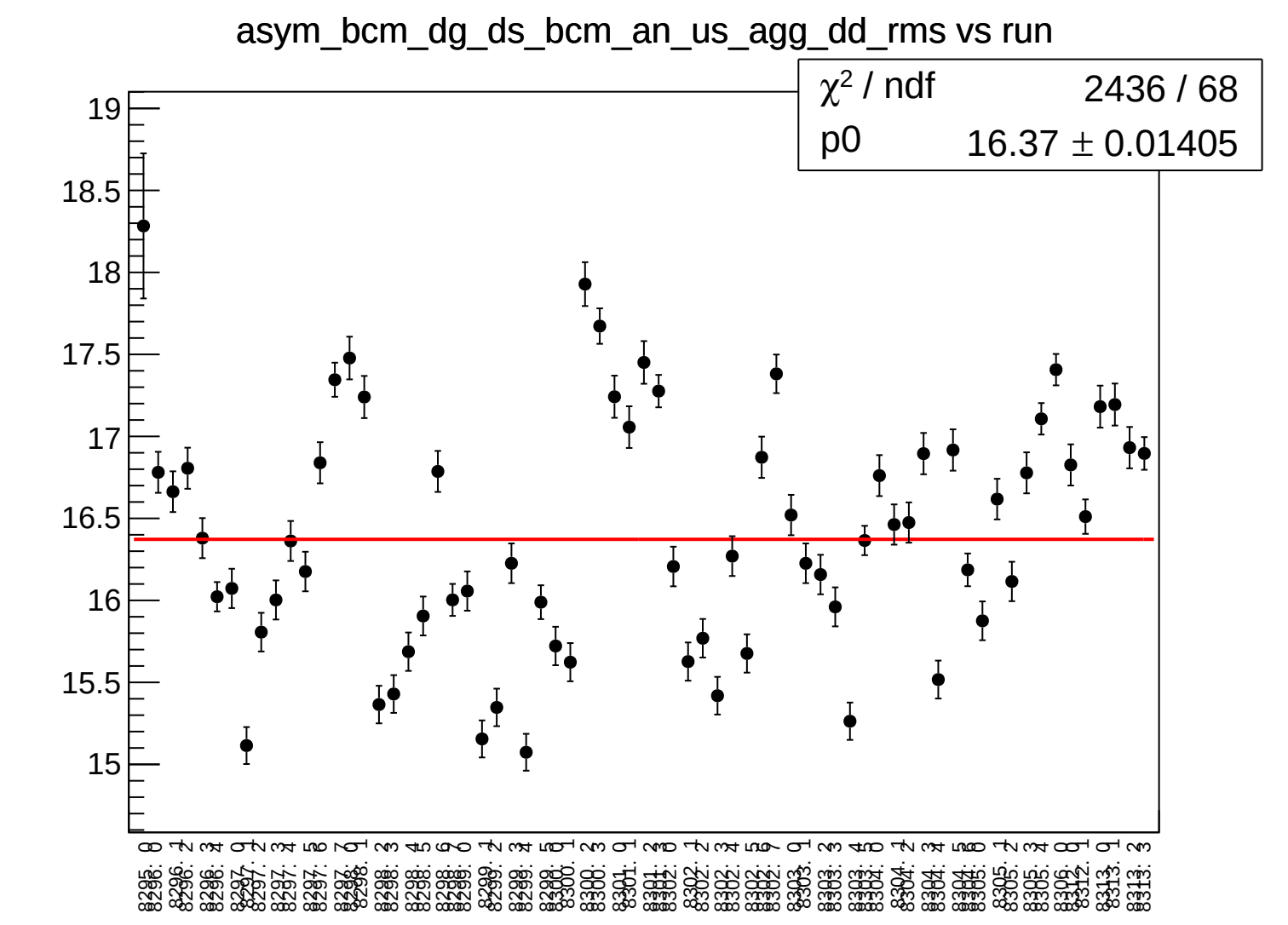

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.04 / 68
p0 −74.18 ± 229.5
pull
Entries 69
Mean −137.6
Std Dev 162.4

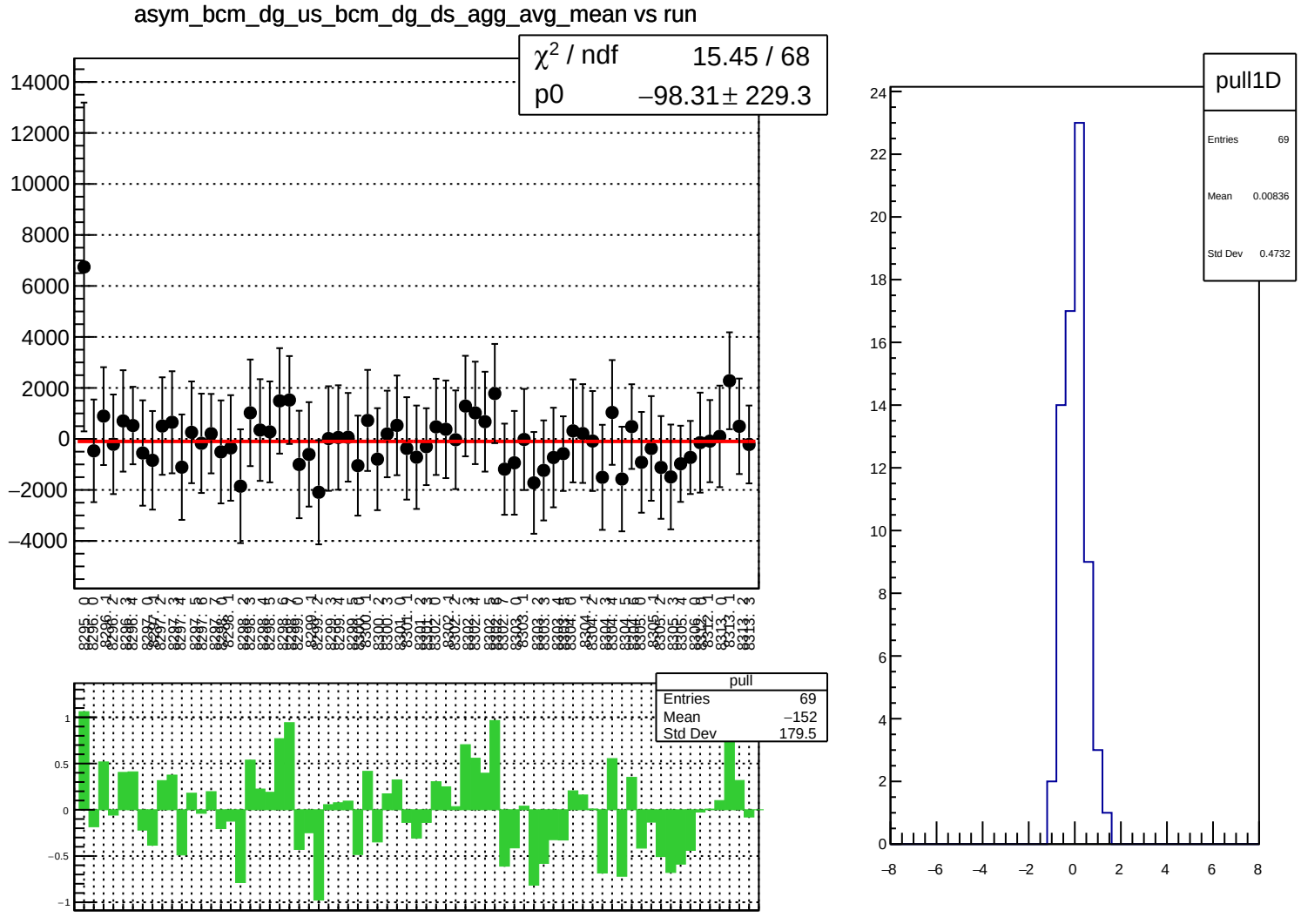

pull1D
Entries 69
Mean 0.007962
Std Dev 0.4346

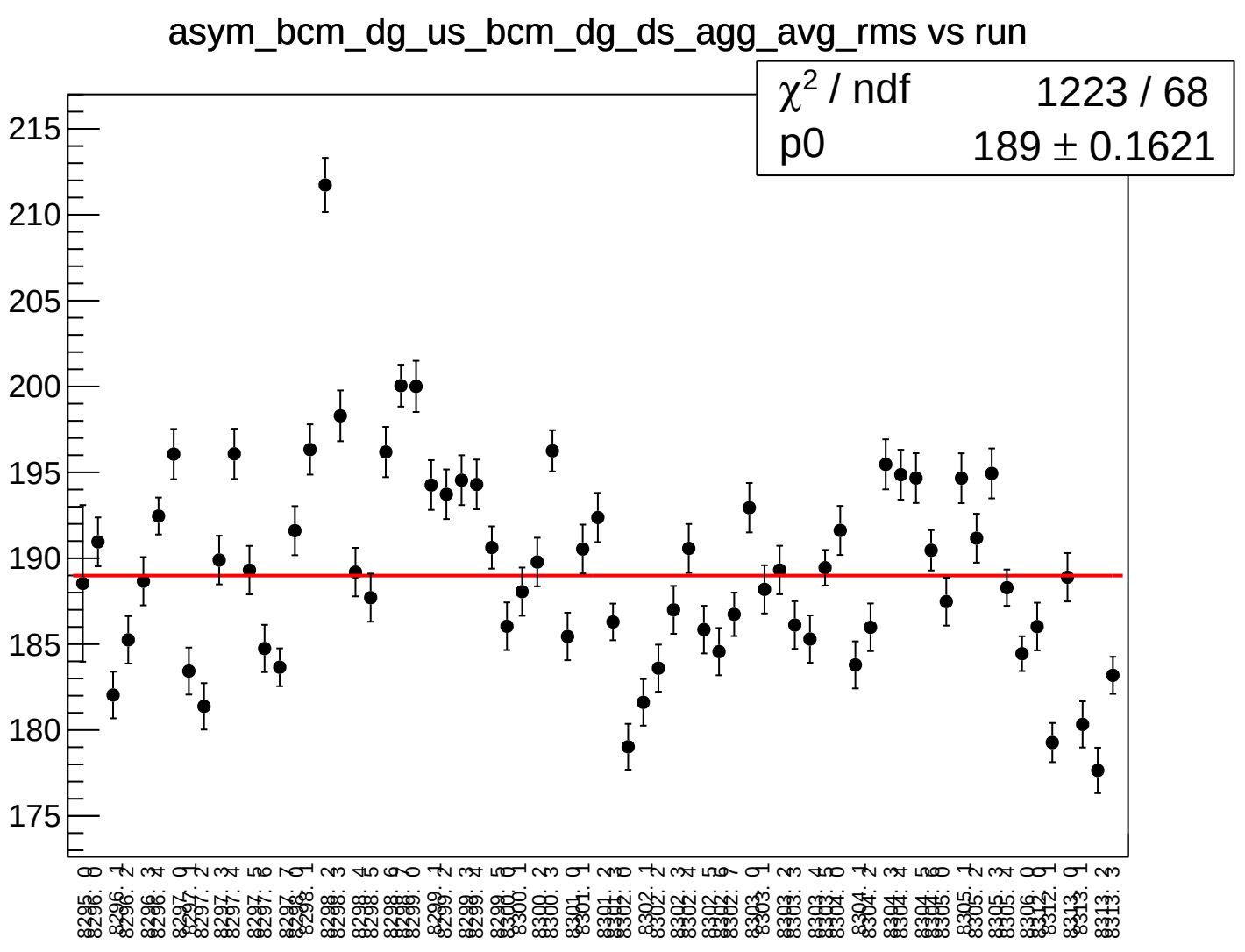

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1254 / 68
p0 189.1 ± 0.1623
215
210
205
200
195
190
185
180
175

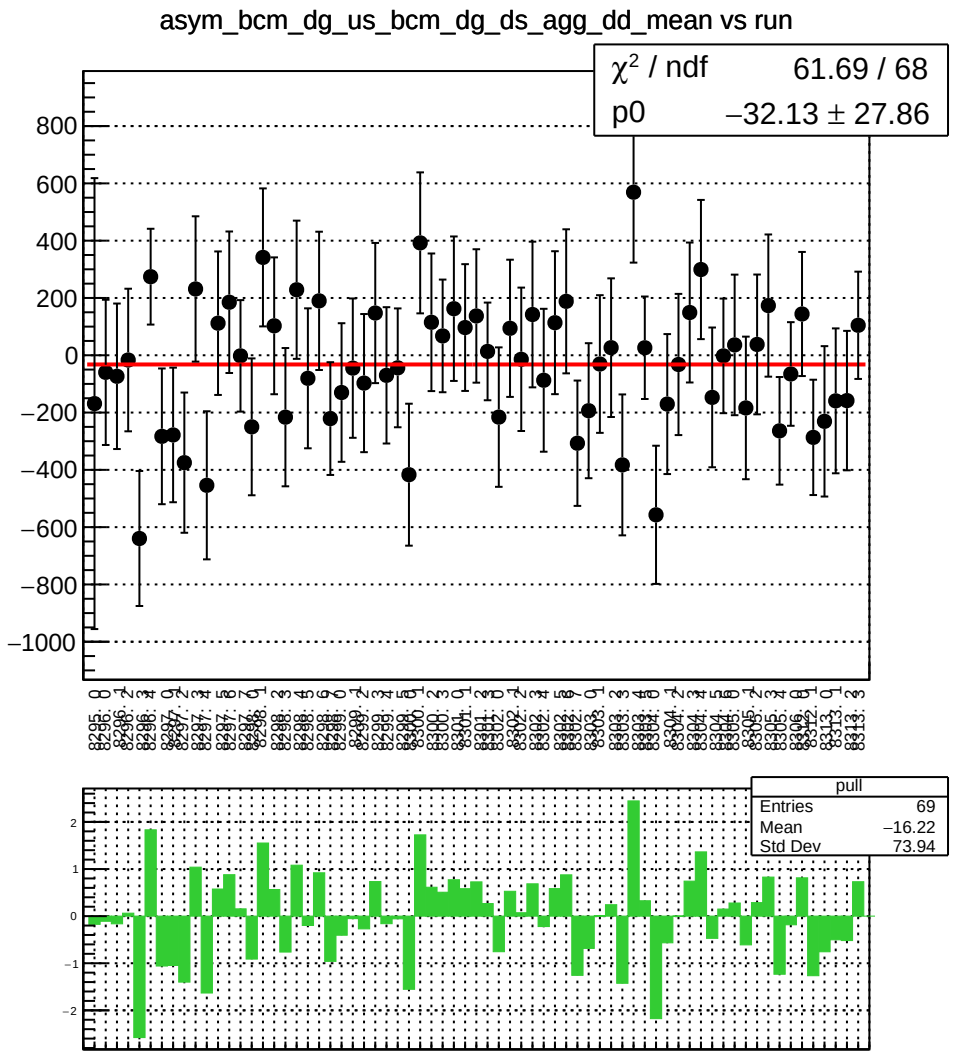

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.89 / 68
p0 10.5 ± 19.87
pull
Entries 69
Mean −433.2
Std Dev 460.1

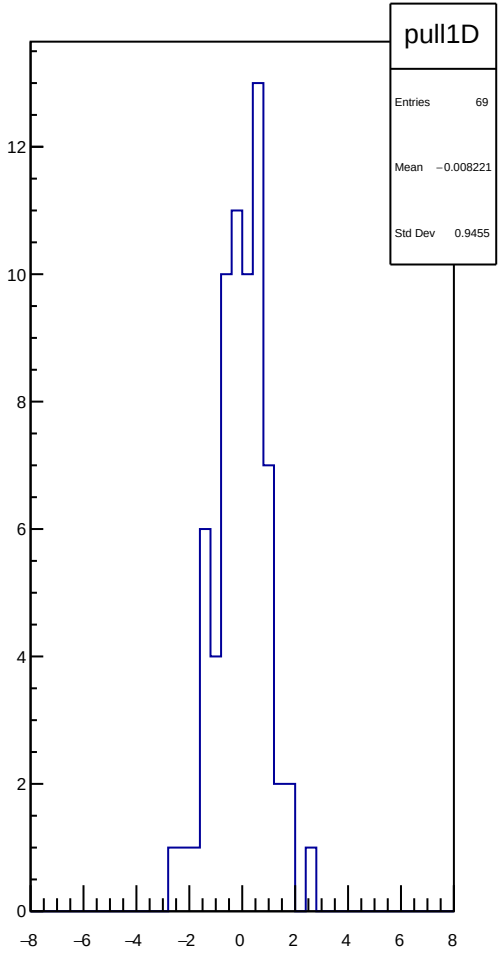

pull1D
Entries 69
Mean 0.005829
Std Dev 1.035

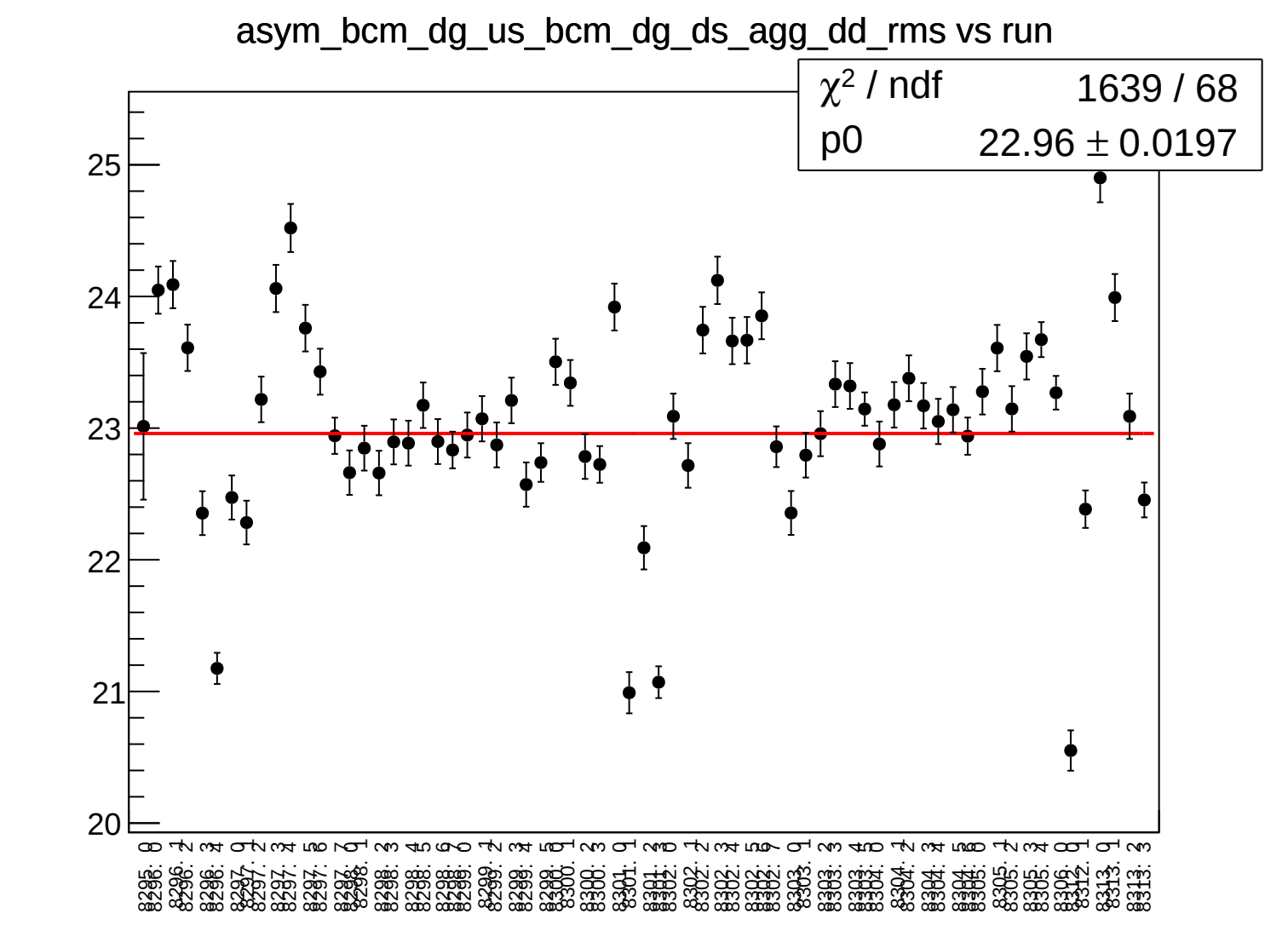

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2436 / 68
p0 16.37 ± 0.01405
19
18.5
18
17.5
17
16.5
16
15.5
15

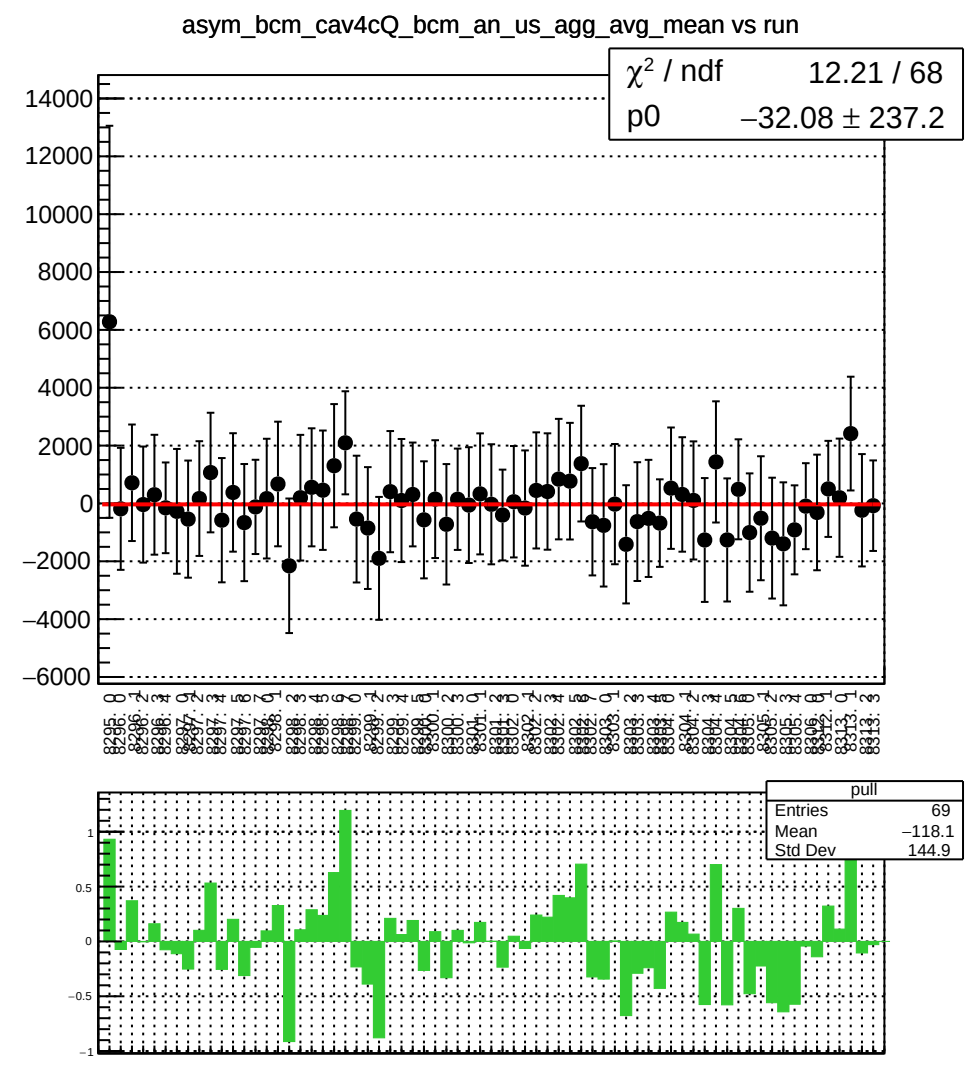

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.45 / 68
p0 −98.31 ± 229.3
pull
Entries 69
Mean −152
Std Dev 179.5
pull1D
Entries 69
Mean 0.00836
Std Dev 0.4732

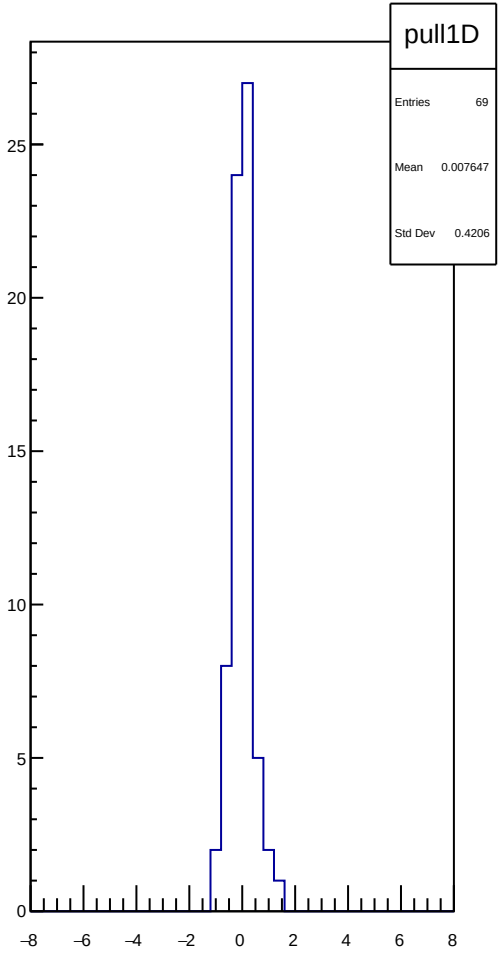

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1223 / 68
p0 189 ± 0.1621
215
210
205
200
195
190
185
180
175

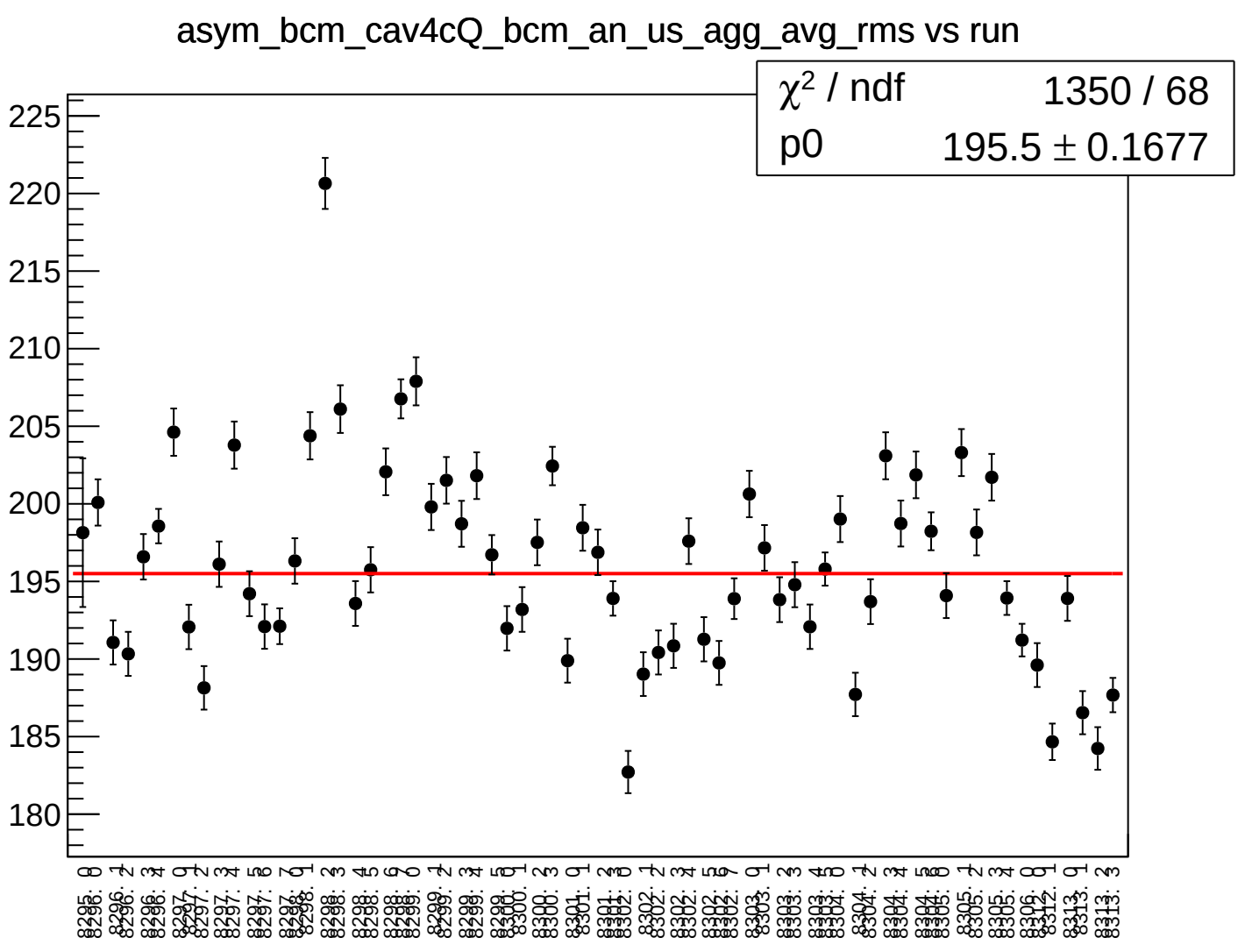

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 61.69 / 68
p0 −32.13 ± 27.86
pull
Entries 69
Mean −16.22
Std Dev 73.94

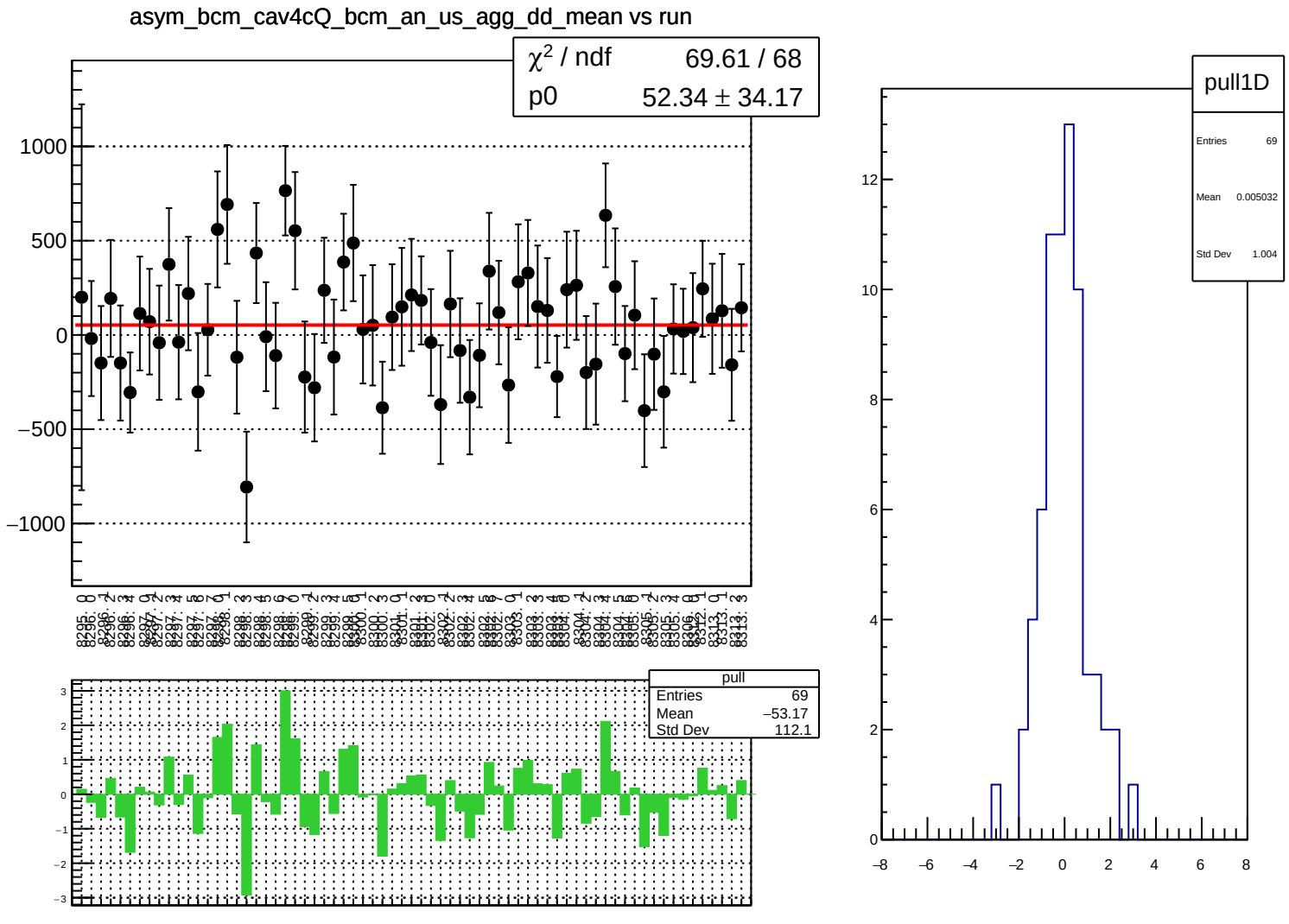

pull1D
Entries 69
Mean −0.008221
Std Dev 0.9455

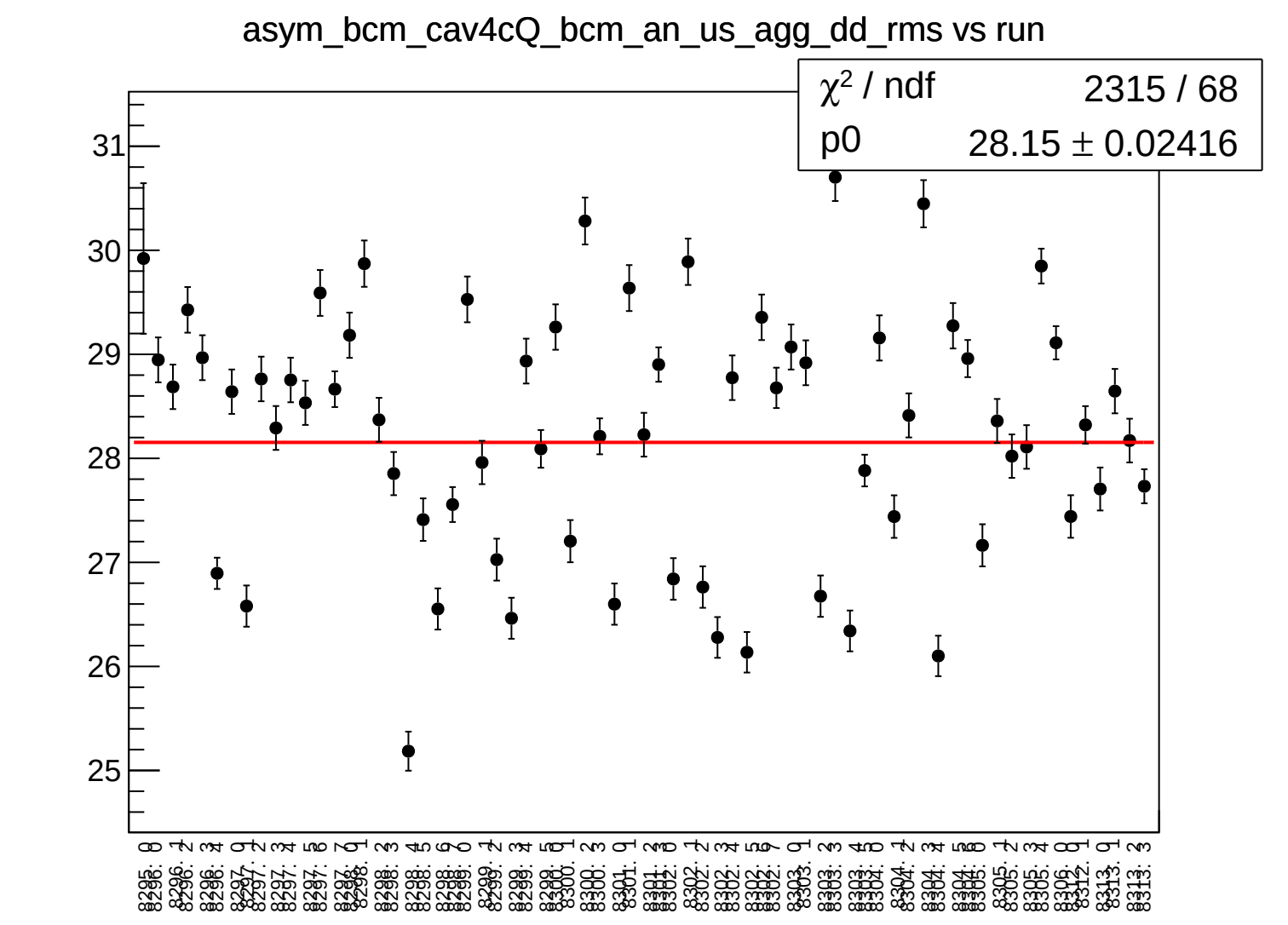

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1639 / 68
p0 22.96 ± 0.0197
25
24
23
22
21
20

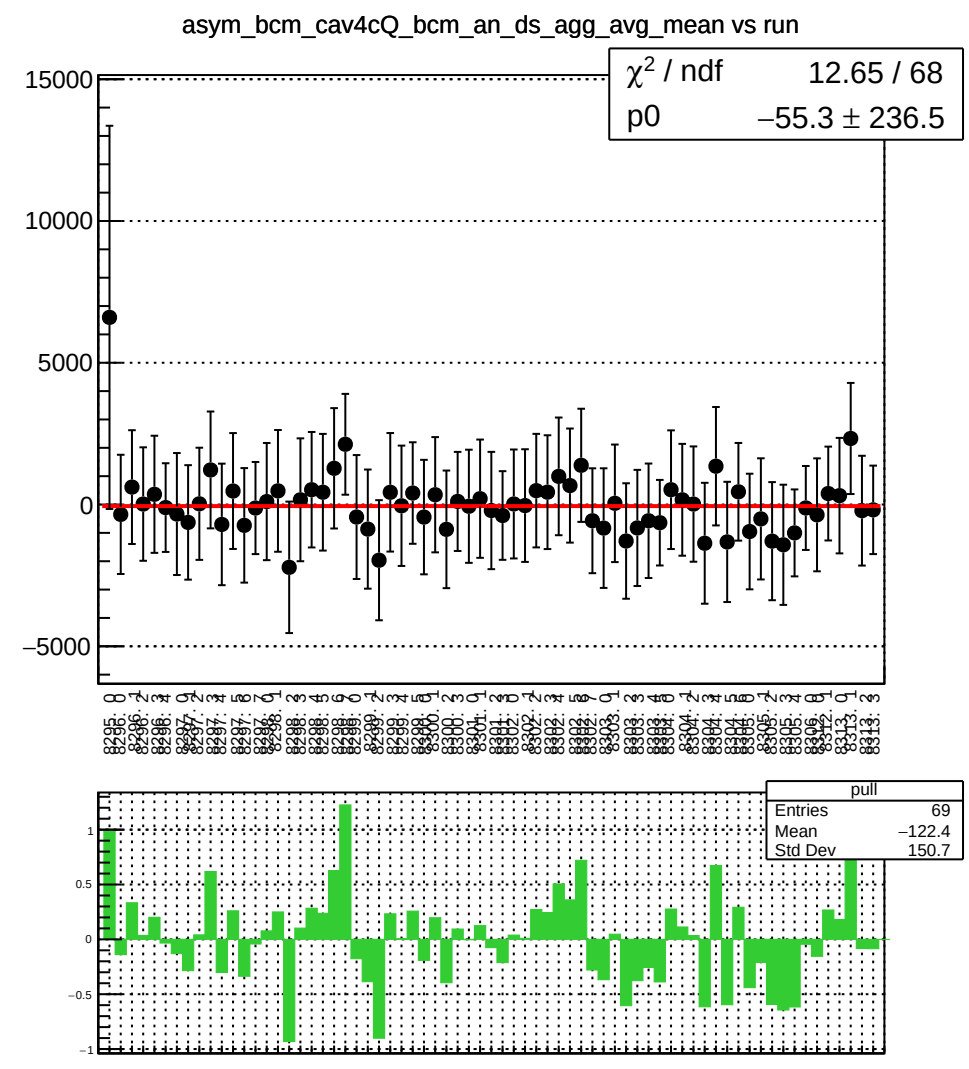

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.21 / 68
p0 −32.08 ± 237.2
pull
Entries 69
Mean −118.1
Std Dev 144.9

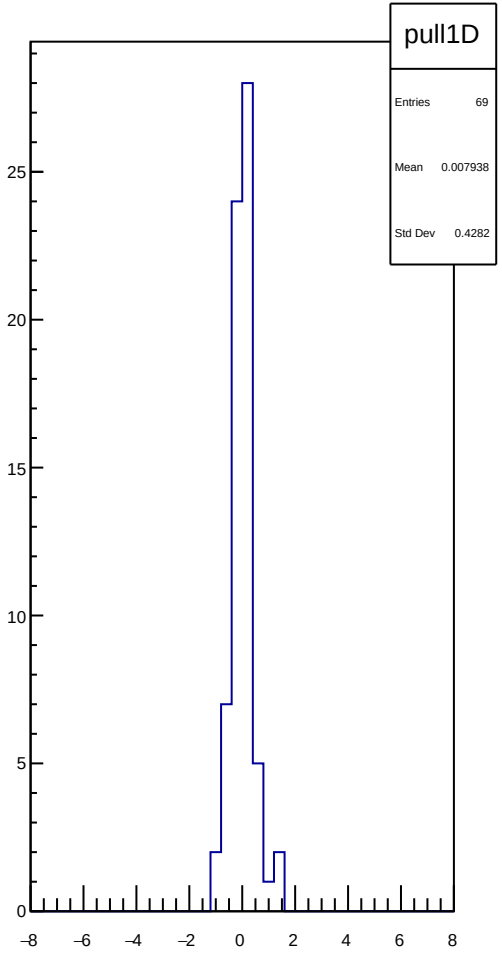

pull1D
Entries 69
Mean 0.007647
Std Dev 0.4206

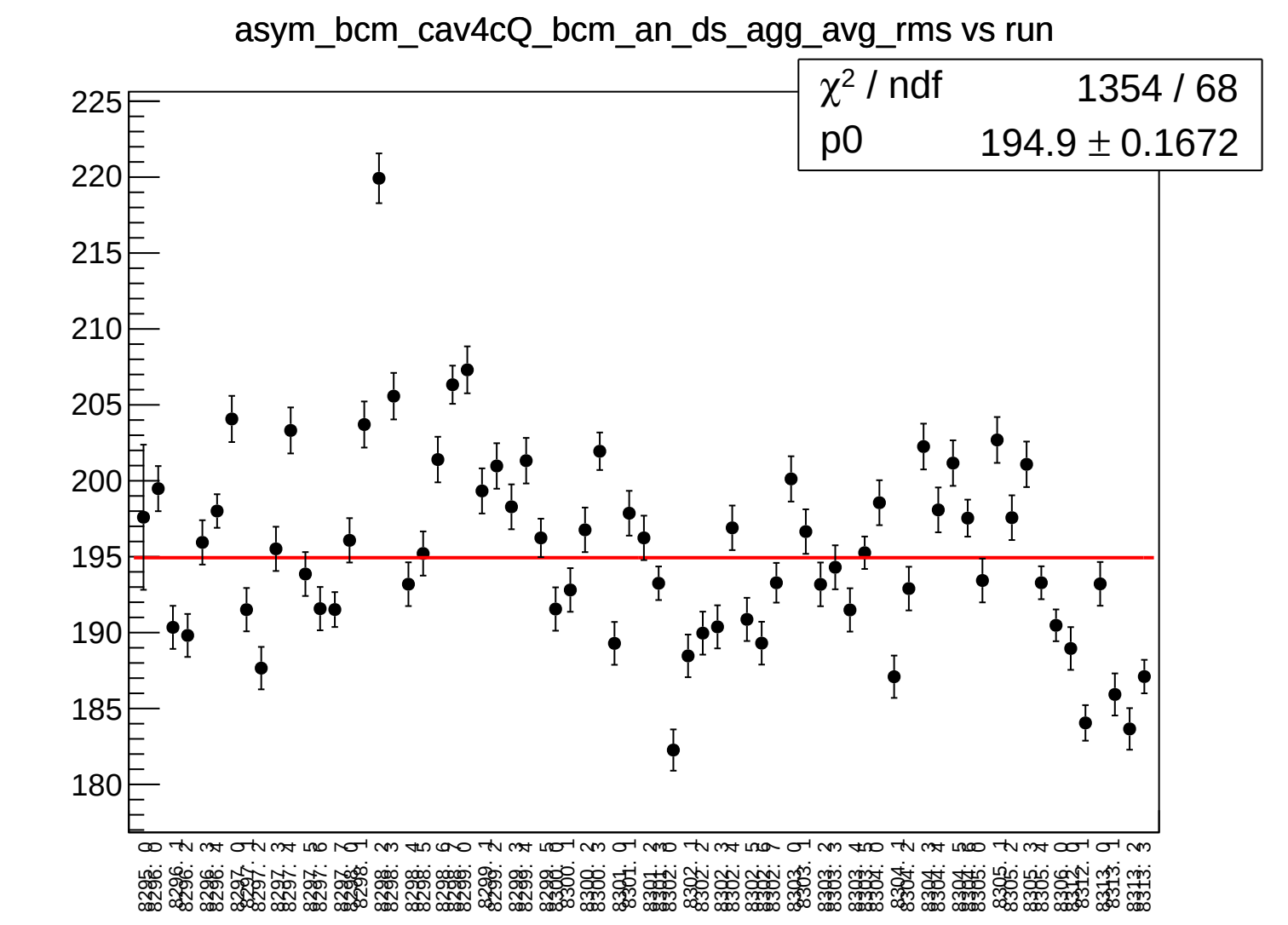

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1350 / 68
p0 195.5 ± 0.1677
225
220
215
210
205
200
195
190
185
180

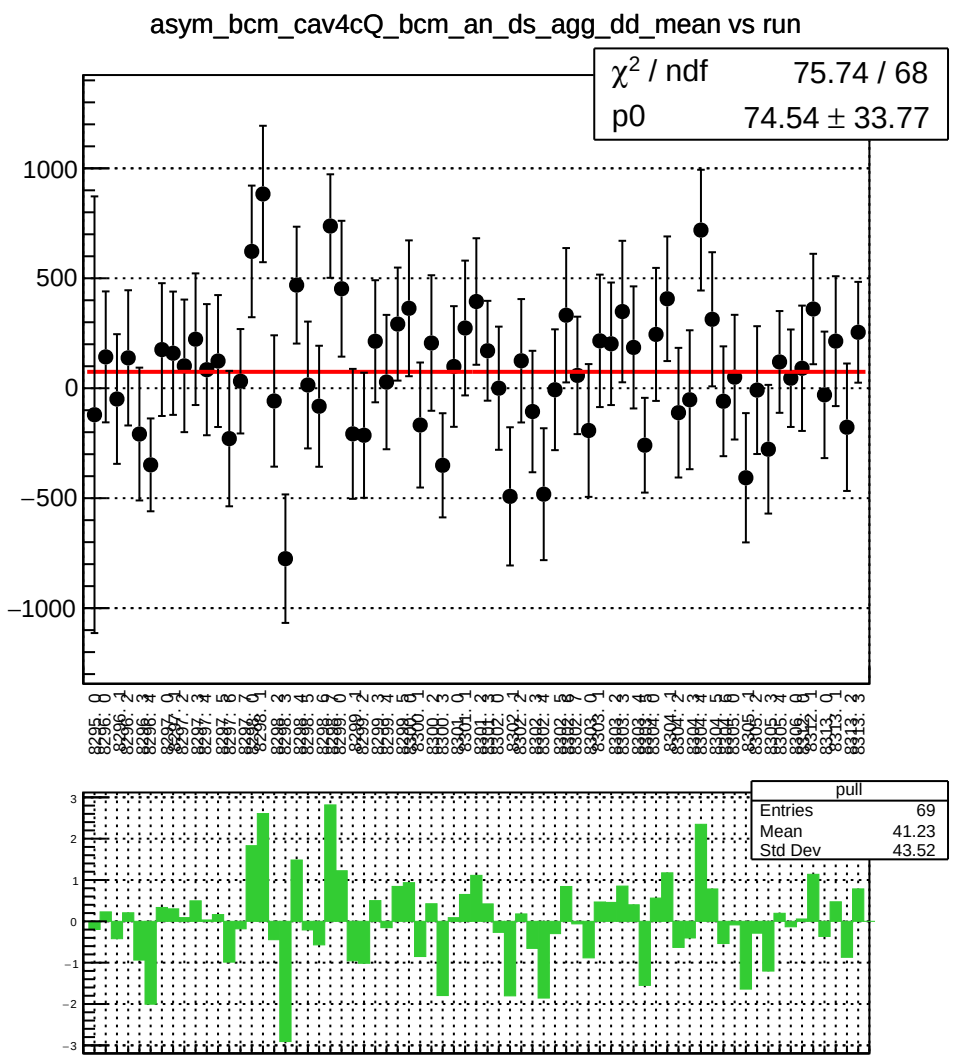

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 69.61 / 68
p0 52.34 ± 34.17
1000
500
0
−500
−1000
pull
Entries 69
Mean −53.17
Std Dev 112.1
pull1D
Entries 69
Mean 0.005032
Std Dev 1.004
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

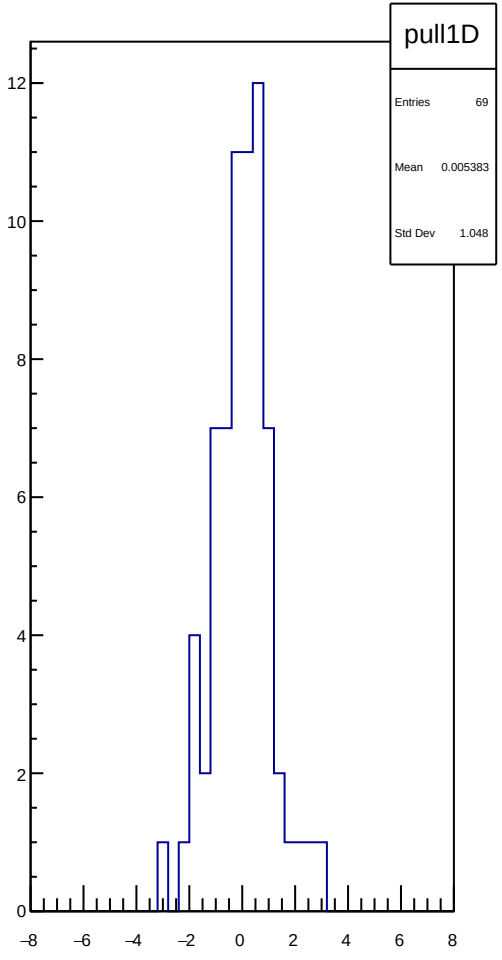

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2315 / 68
p0 28.15 ± 0.02416
31
30
29
28
27
26
25

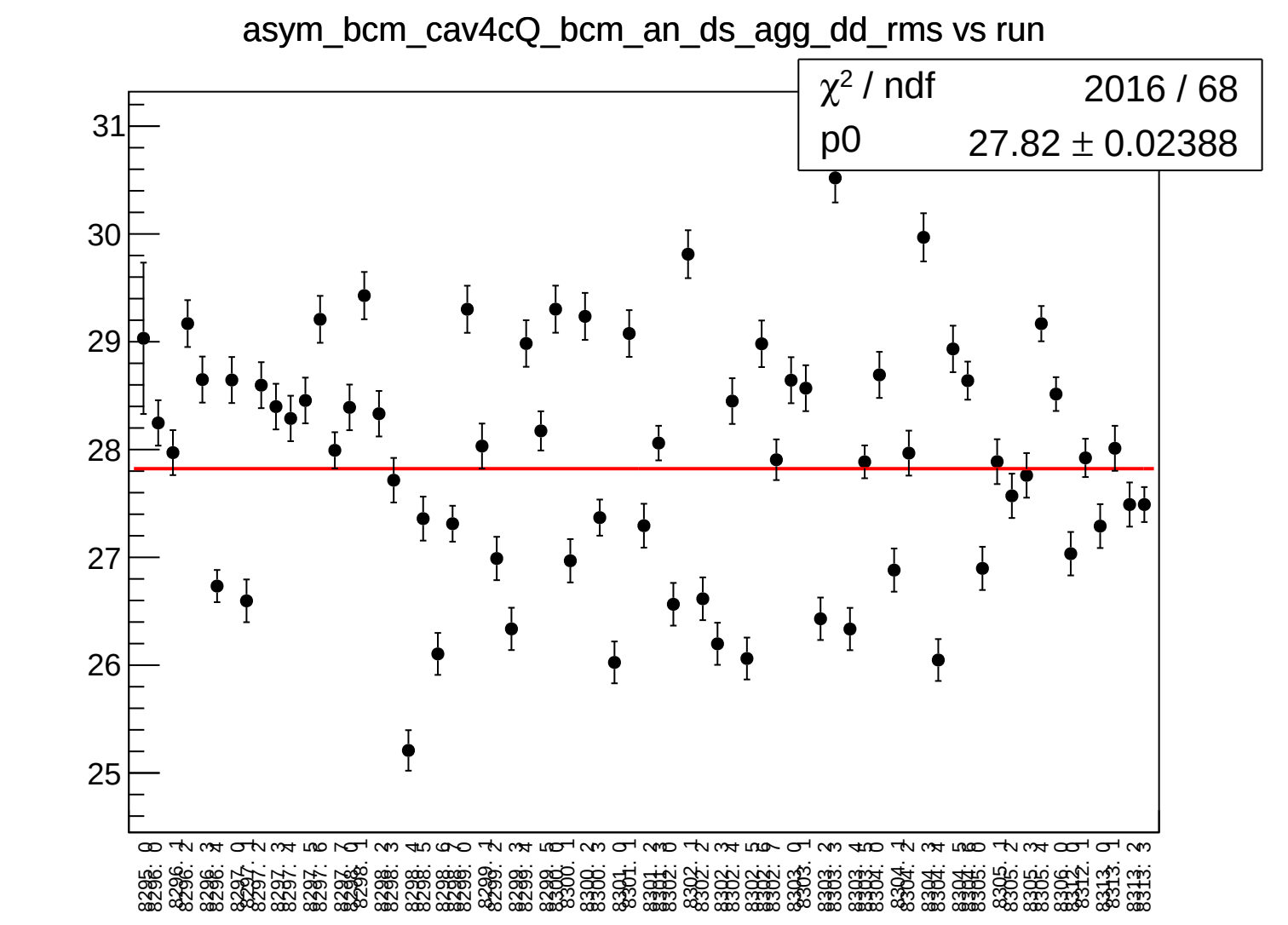

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.65 / 68
p0 −55.3 ± 236.5
15000
10000
5000
0
−5000
pull
Entries 69
Mean −122.4
Std Dev 150.7
1
0.5
0
−0.5
−1

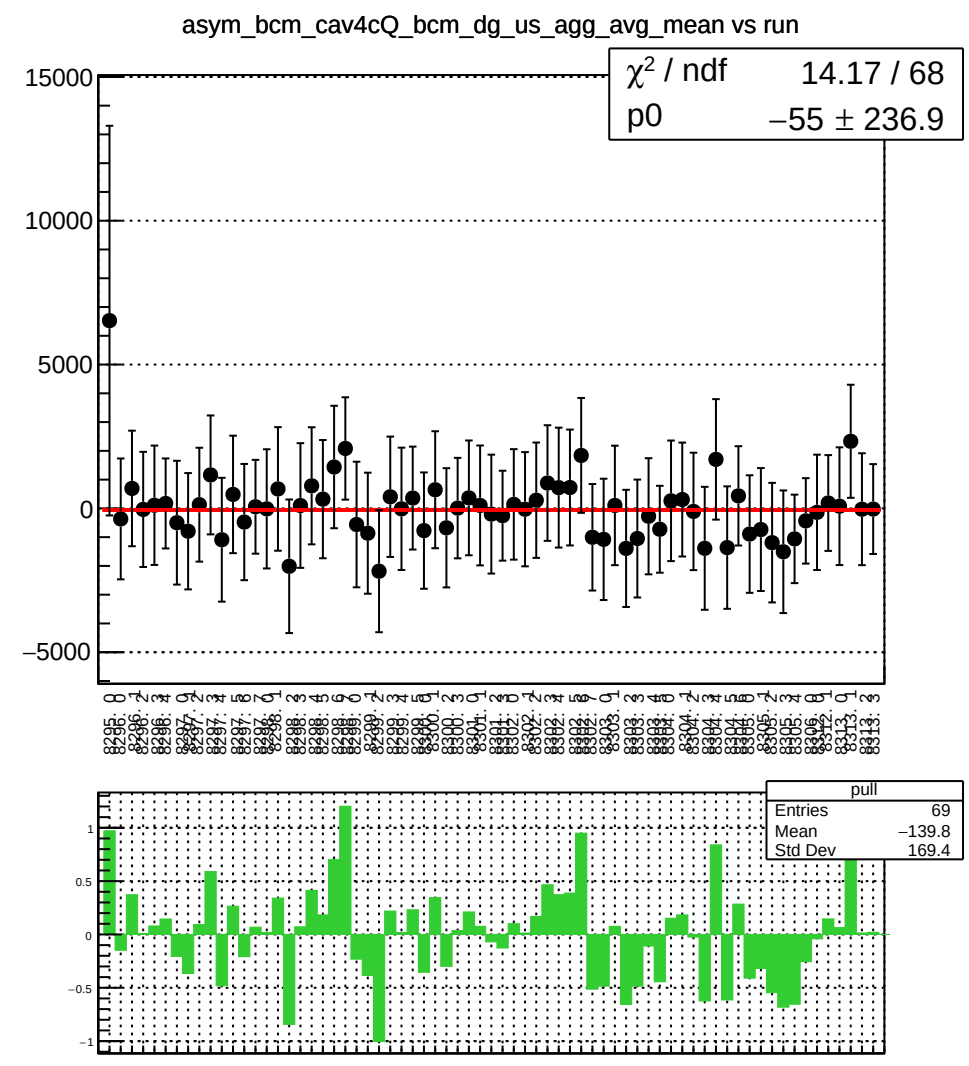

pull1D
Entries 69
Mean 0.007938
Std Dev 0.4282
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

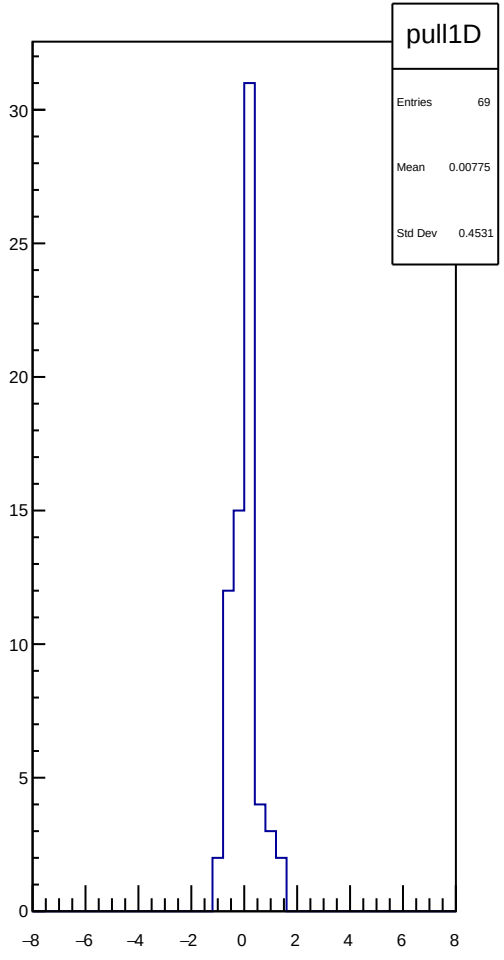

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1354 / 68
p0 194.9 ± 0.1672
225
220
215
210
205
200
195
190
185
180

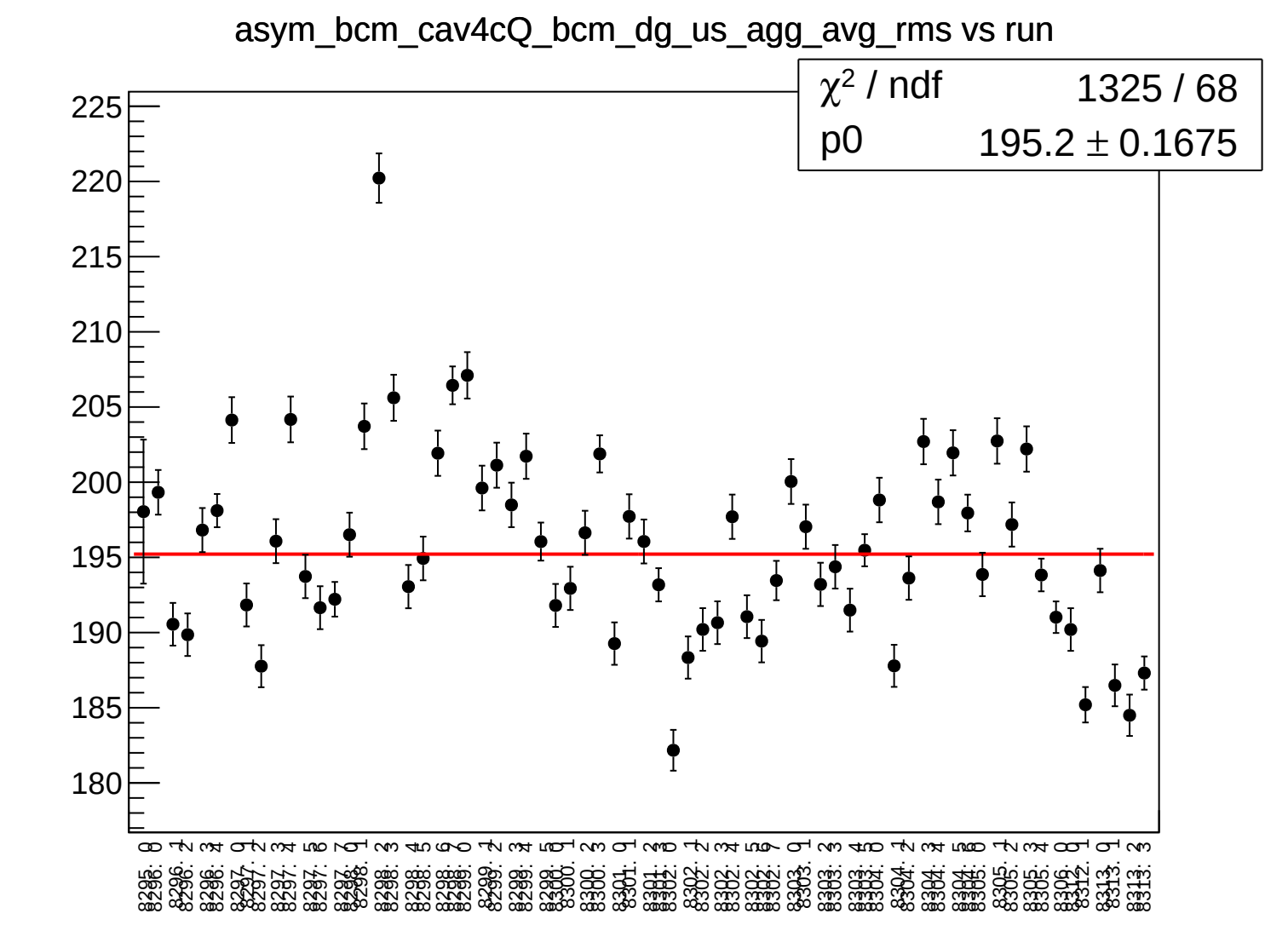

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 75.74 / 68
p0 74.54 ± 33.77
1000
500
0
−500
−1000
pull
Entries 69
Mean 41.23
Std Dev 43.52
3
2
1
0
−1
−2
−3

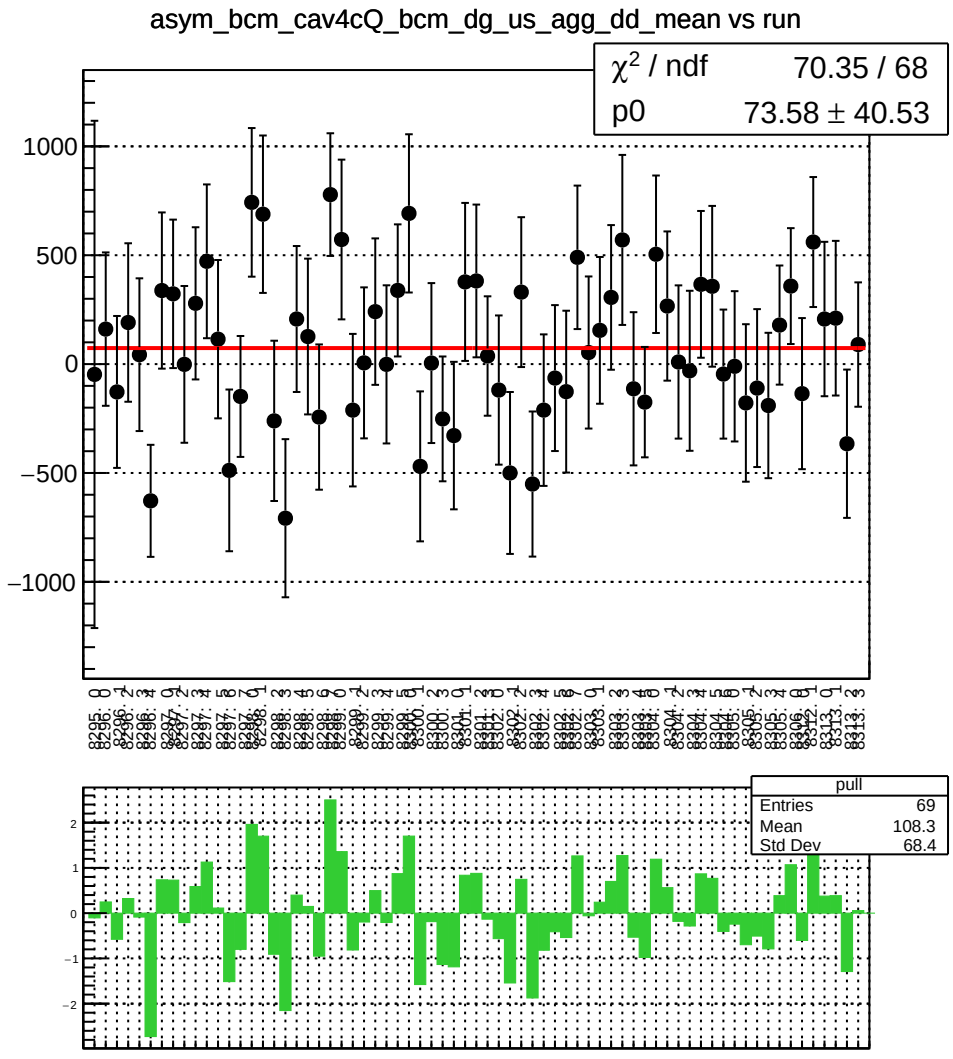

pull1D
Entries 69
Mean 0.005383
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

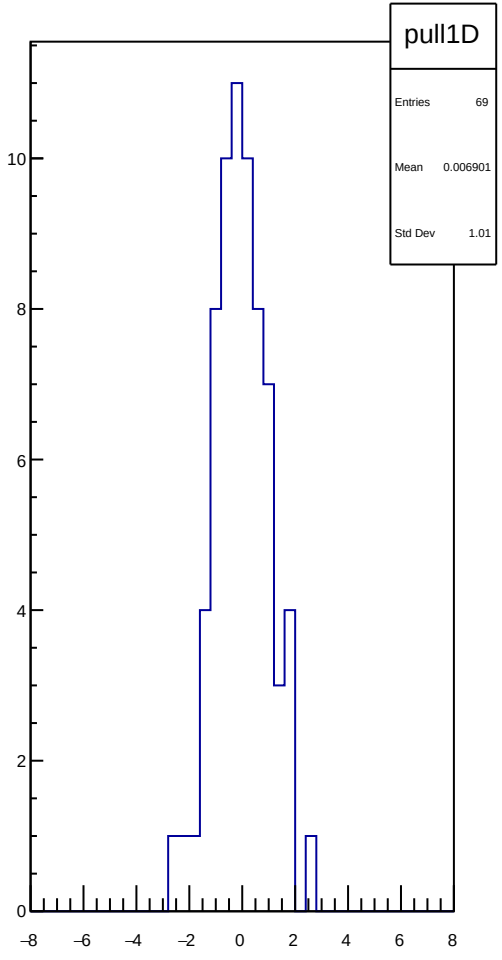

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2016 / 68
p0 27.82 ± 0.02388
31
30
29
28
27
26
25

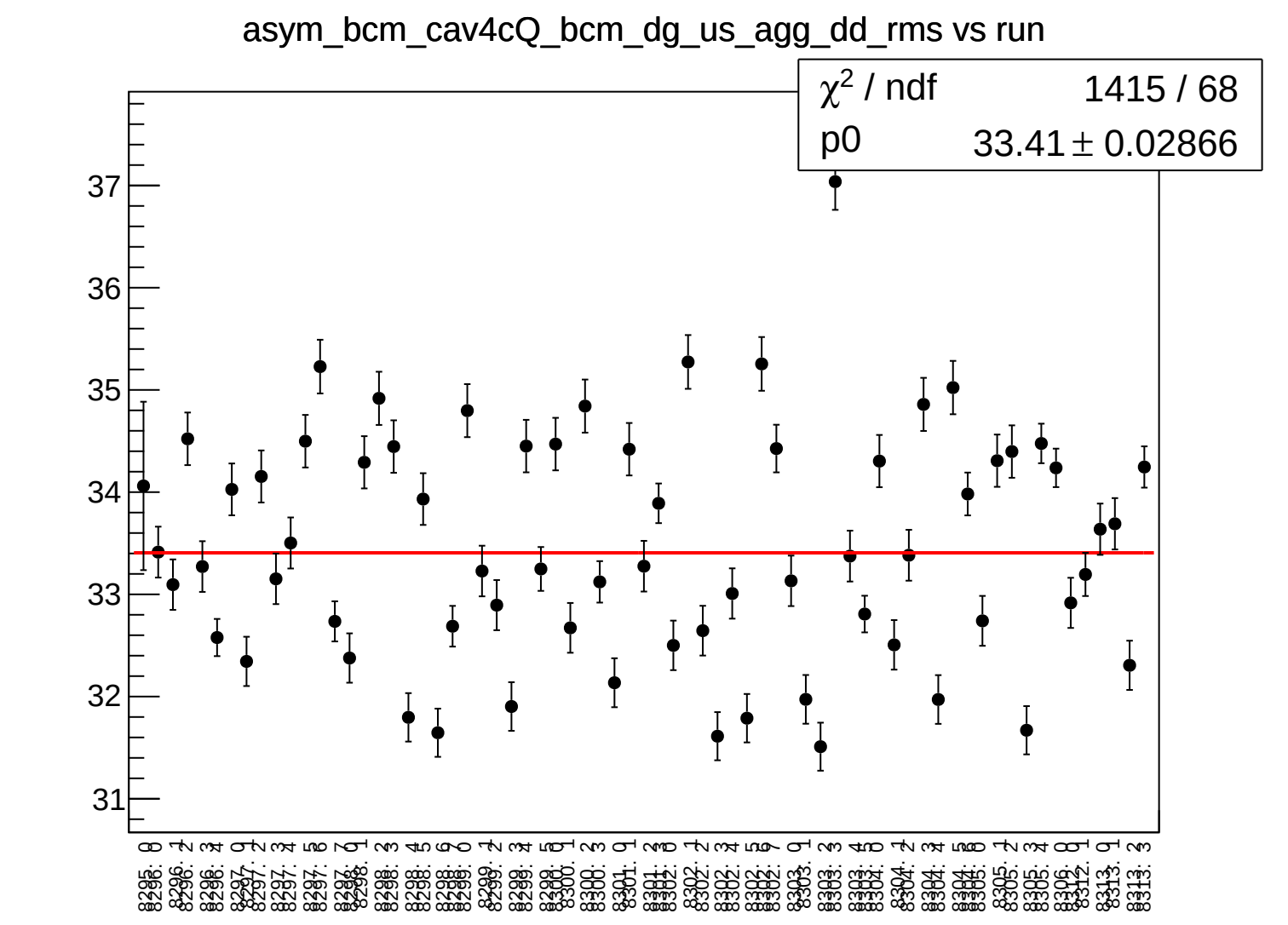

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.17 / 68
p0 −55 ± 236.9
15000
10000
5000
0
−5000
pull
Entries 69
Mean −139.8
Std Dev 169.4
1
0.5
0
−0.5
−1

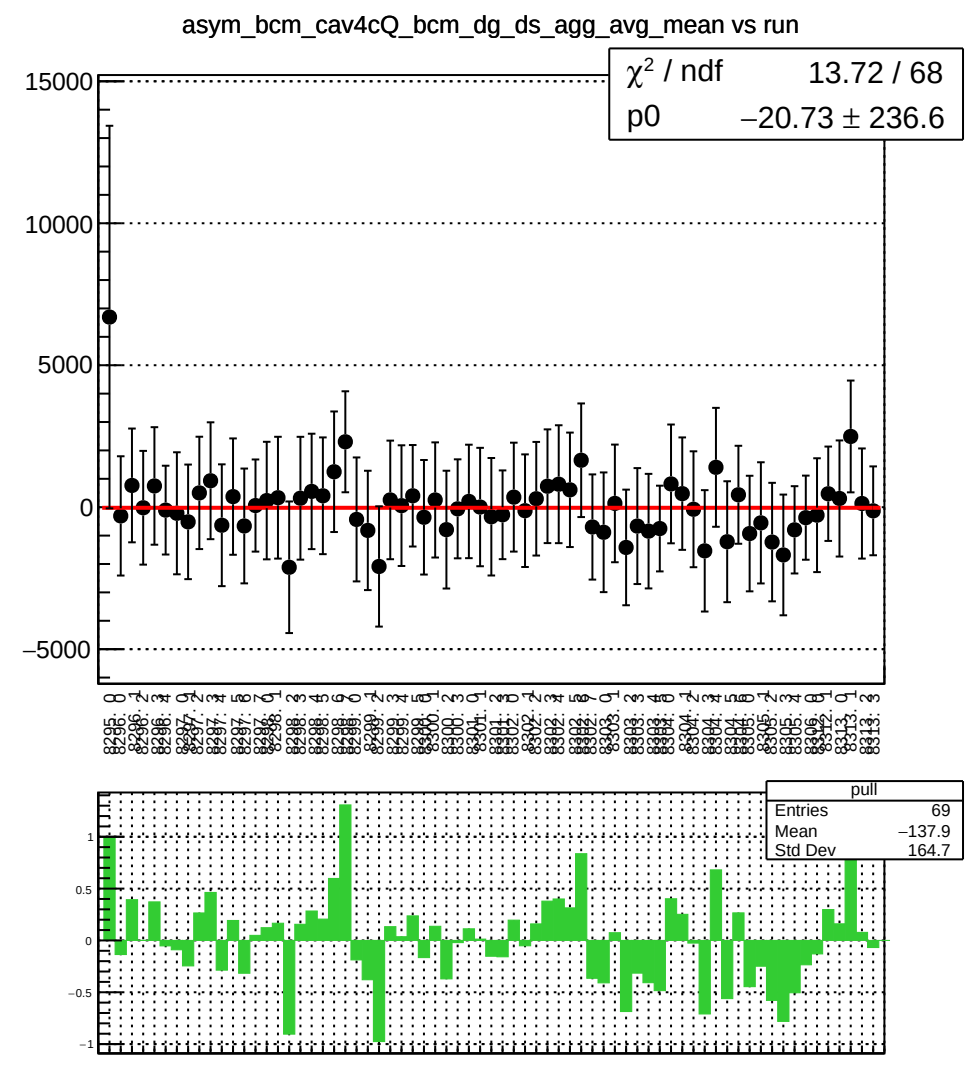

pull1D
Entries 69
Mean 0.00775
Std Dev 0.4531
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

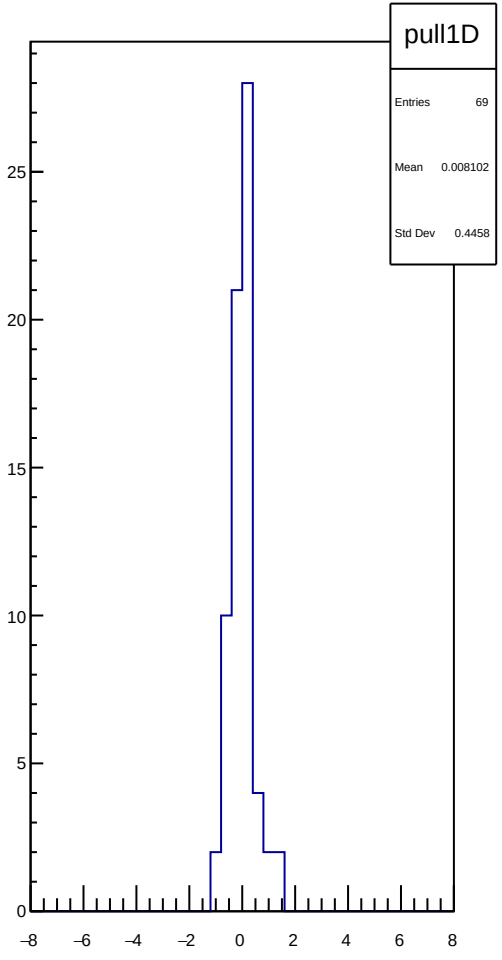

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1325 / 68
p0 195.2 ± 0.1675
225
220
215
210
205
200
195
190
185
180

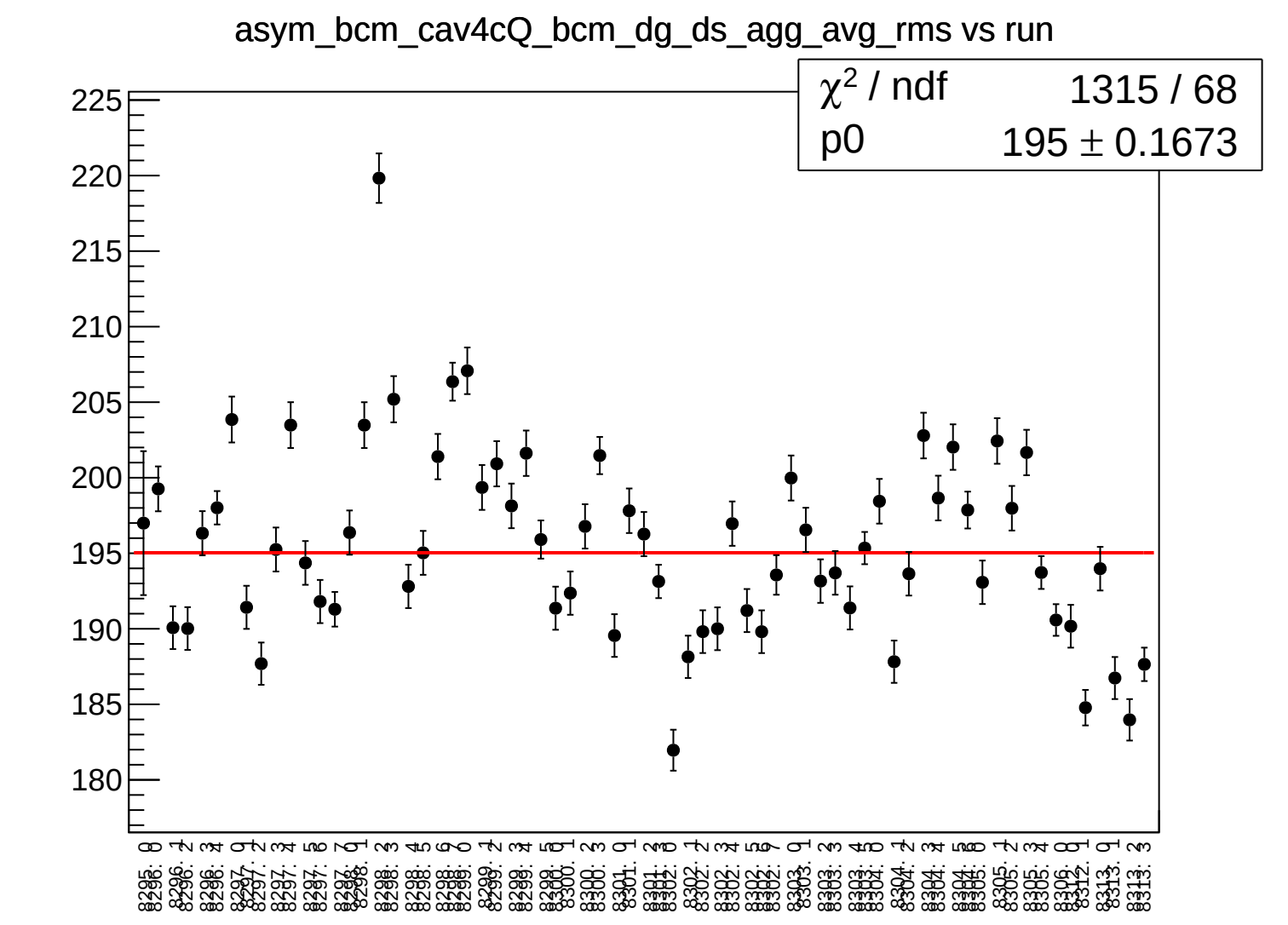

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.35 / 68
p0 73.58 ± 40.53
1000
500
0
−500
−1000
pull
Entries 69
Mean 108.3
Std Dev 68.4
2
1
0
−1
−2

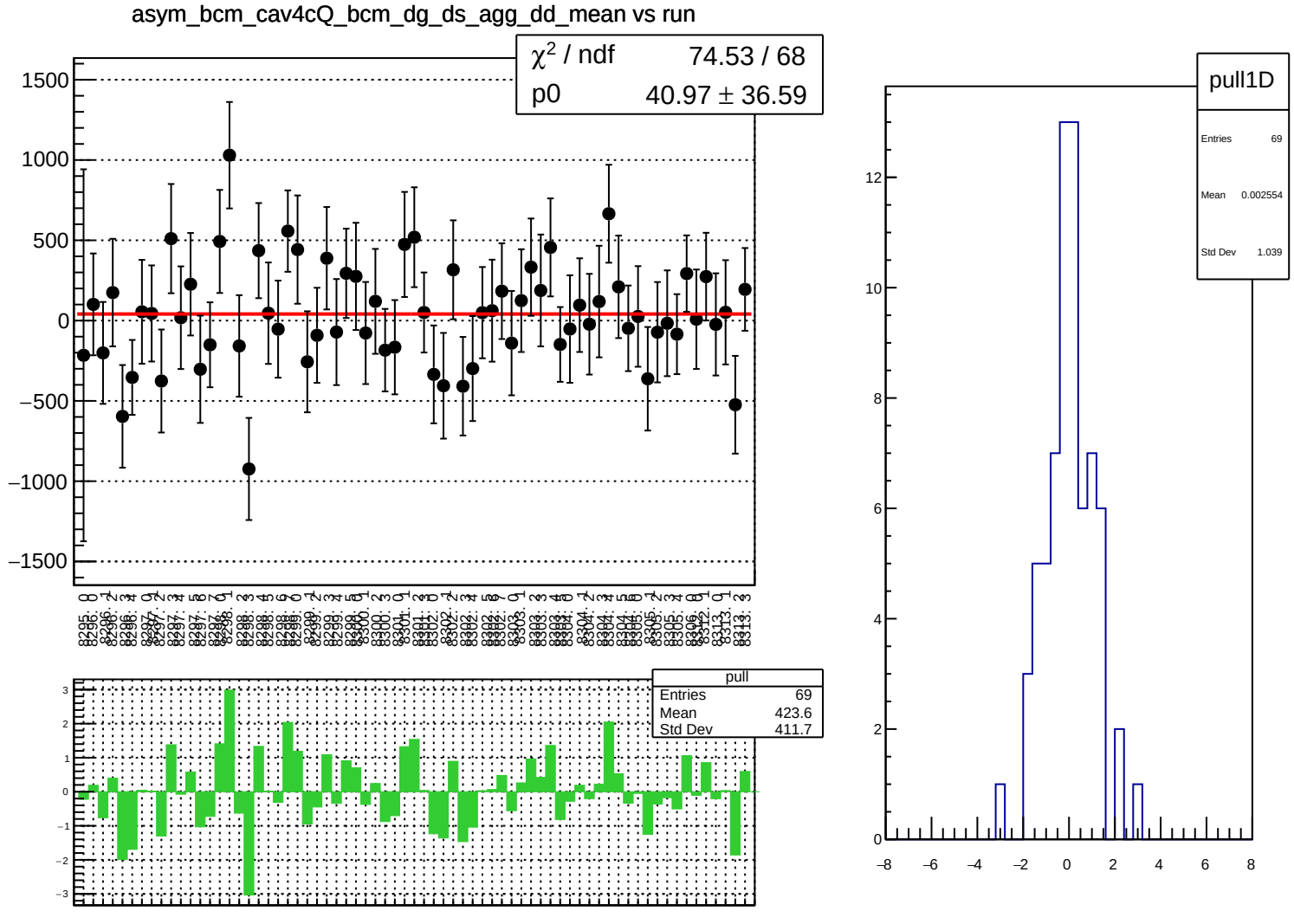

pull1D
Entries 69
Mean 0.006901
Std Dev 1.01
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

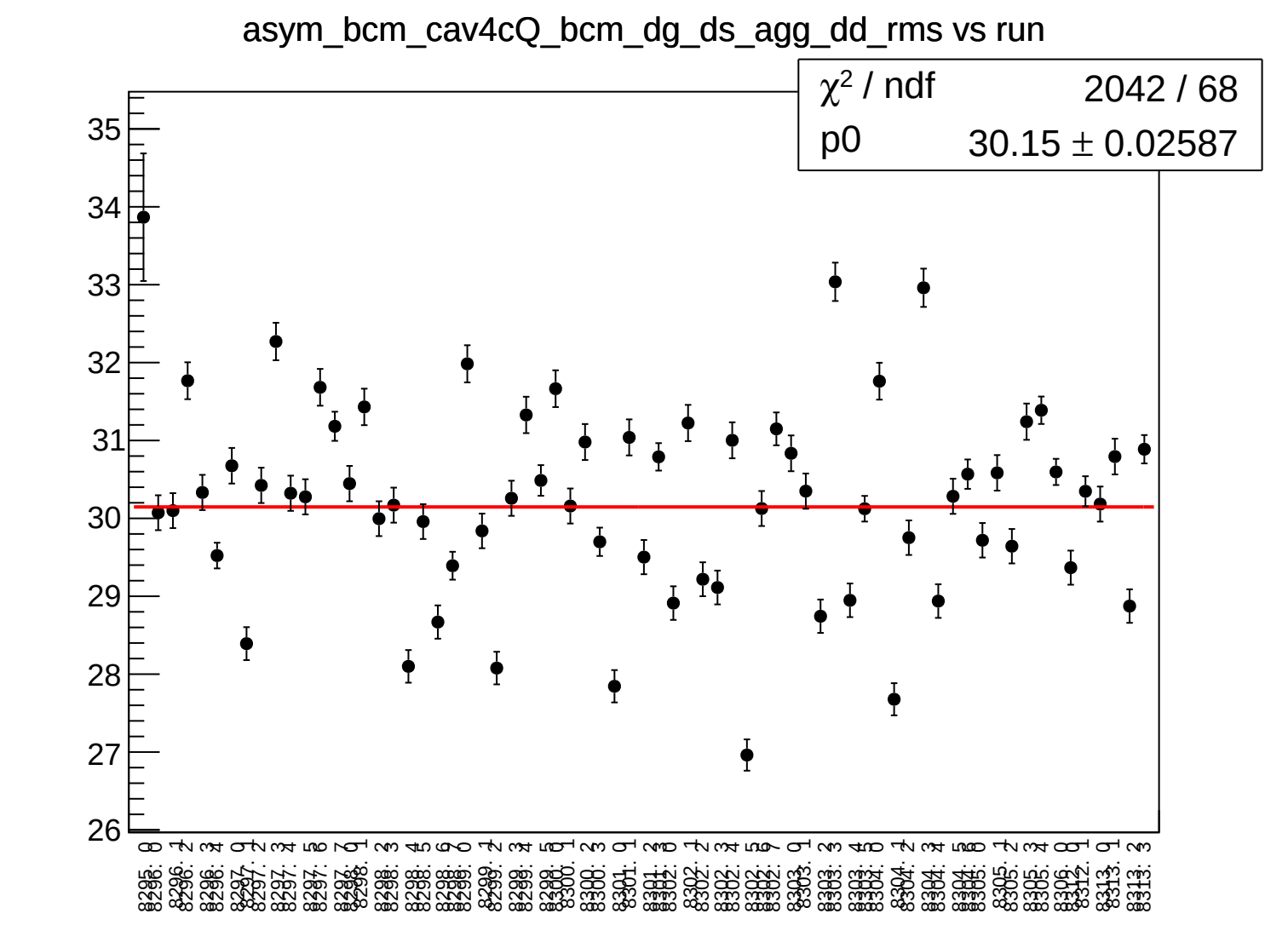

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1415 / 68
p0 33.41 ± 0.02866
37
36
35
34
33
32
31

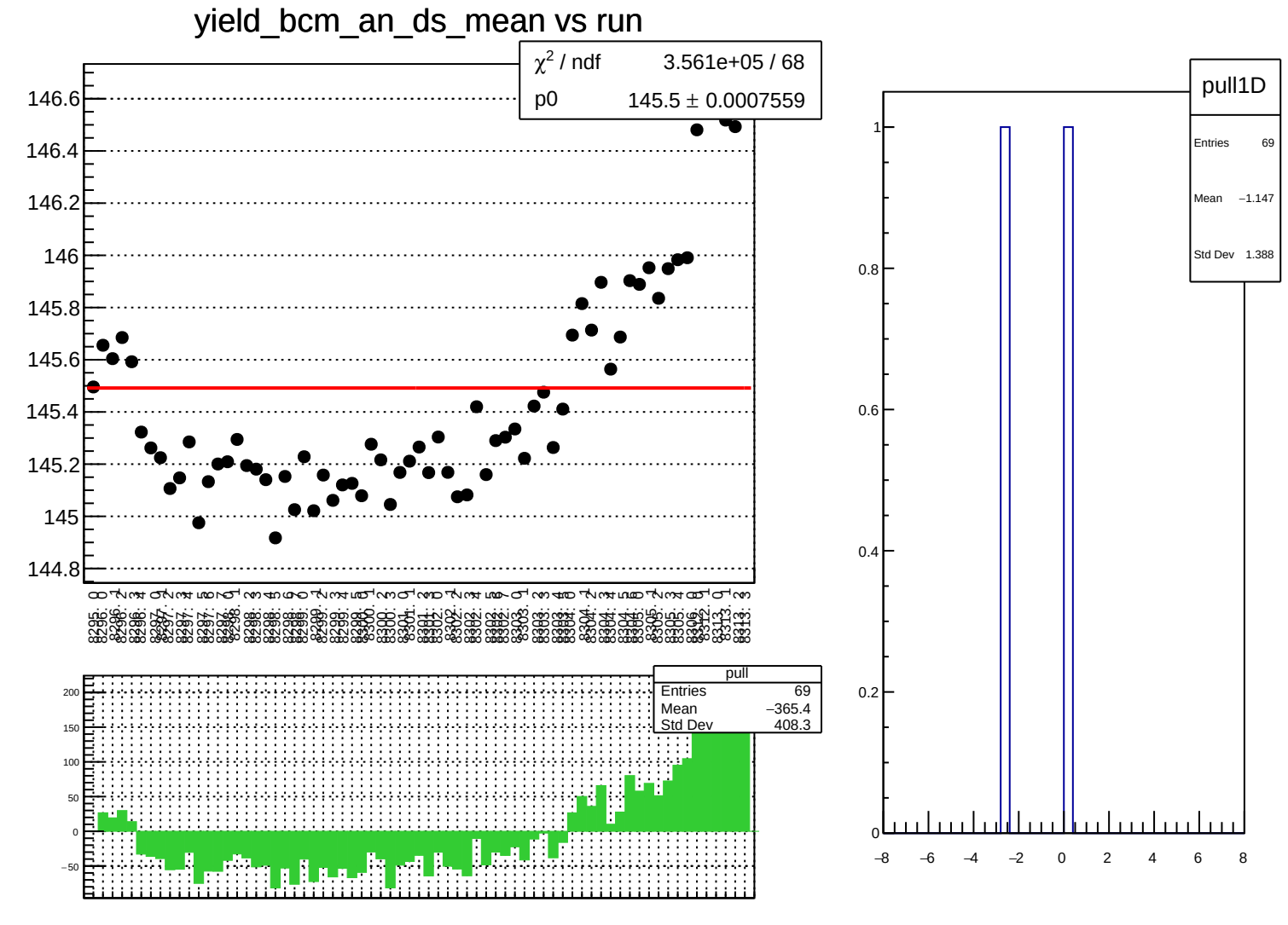

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.72 / 68
p0 −20.73 ± 236.6
15000
10000
5000
0
−5000
pull
Entries 69
Mean −137.9
Std Dev 164.7
1
0.5
0
−0.5
−1

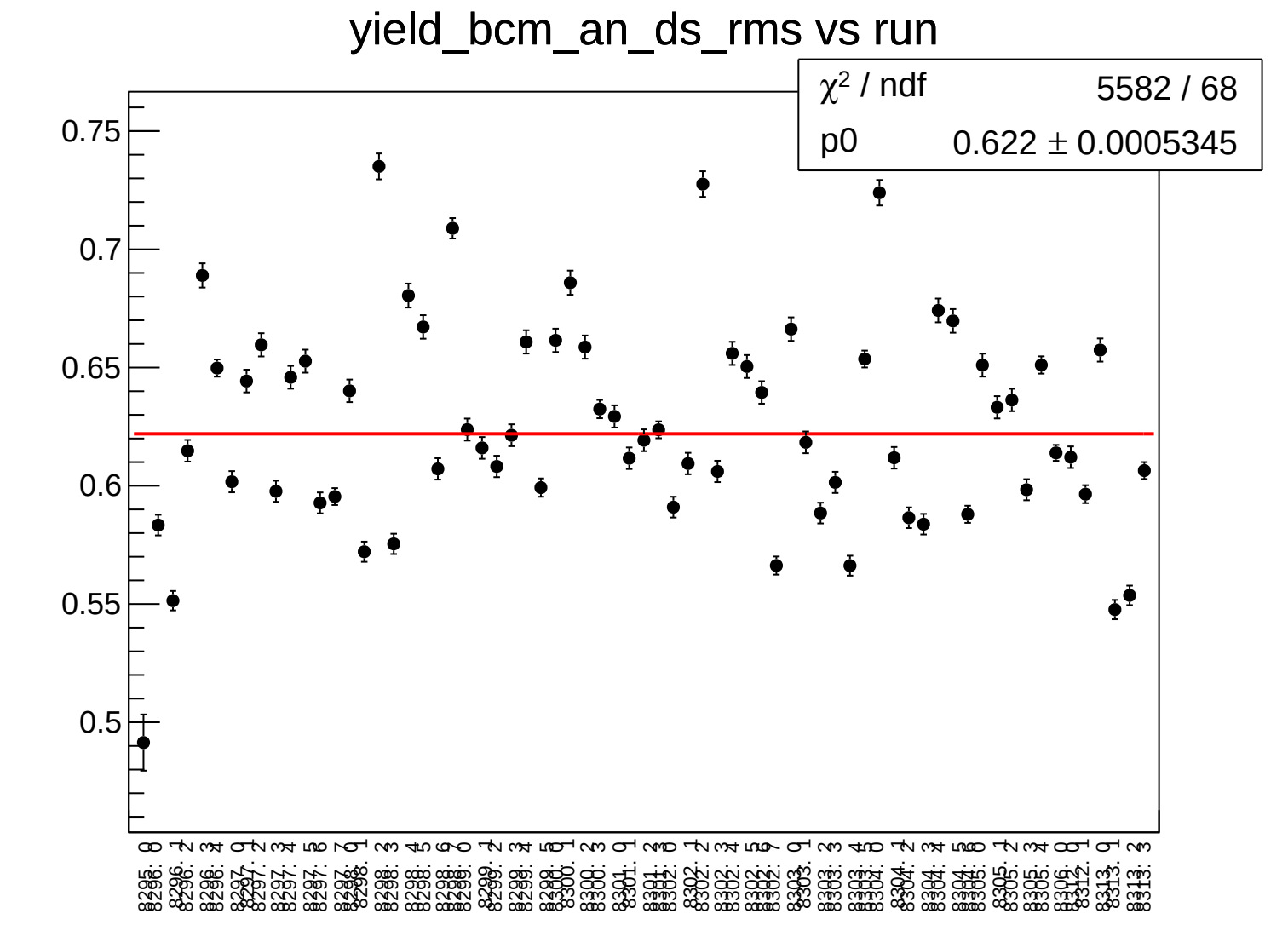

pull1D
Entries 69
Mean 0.008102
Std Dev 0.4458
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

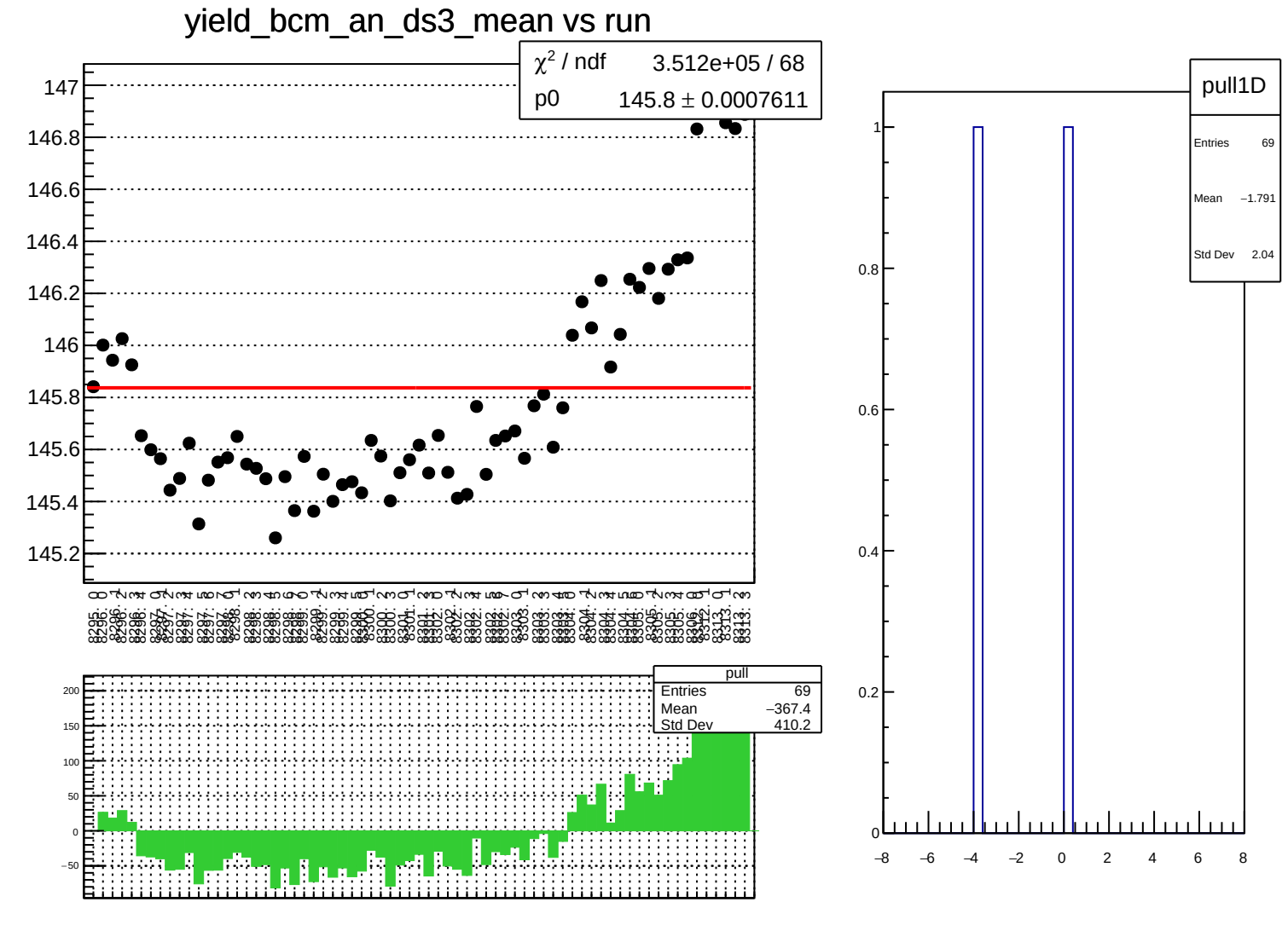

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1315 / 68
p0 195 ± 0.1673
225
220
215
210
205
200
195
190
185
180

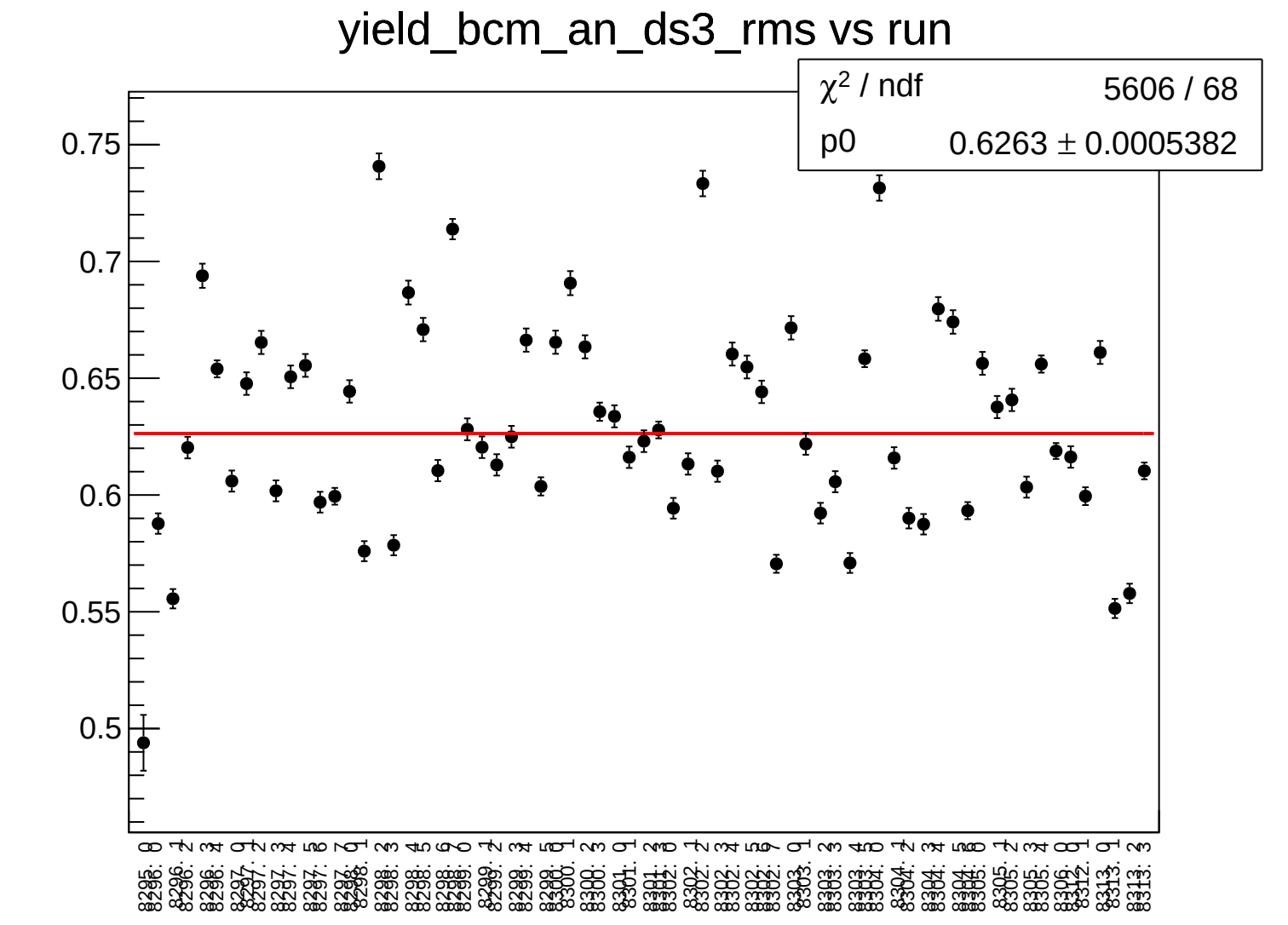

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 74.53 / 68
p0 40.97 ± 36.59
pull
Entries 69
Mean 423.6
Std Dev 411.7
pull1D
Entries 69
Mean 0.002554
Std Dev 1.039

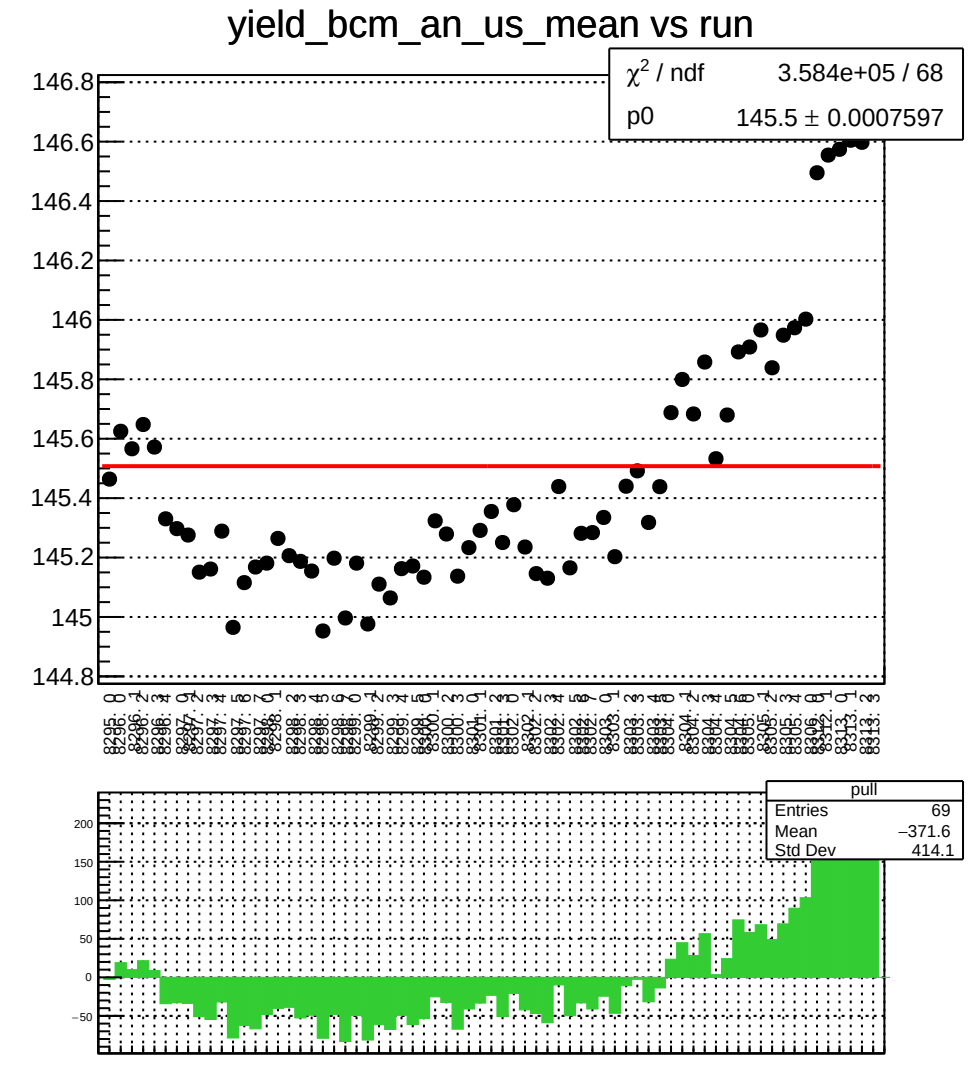

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2042 / 68
p0 30.15 ± 0.02587
35
34
33
32
31
30
29
28
27
26

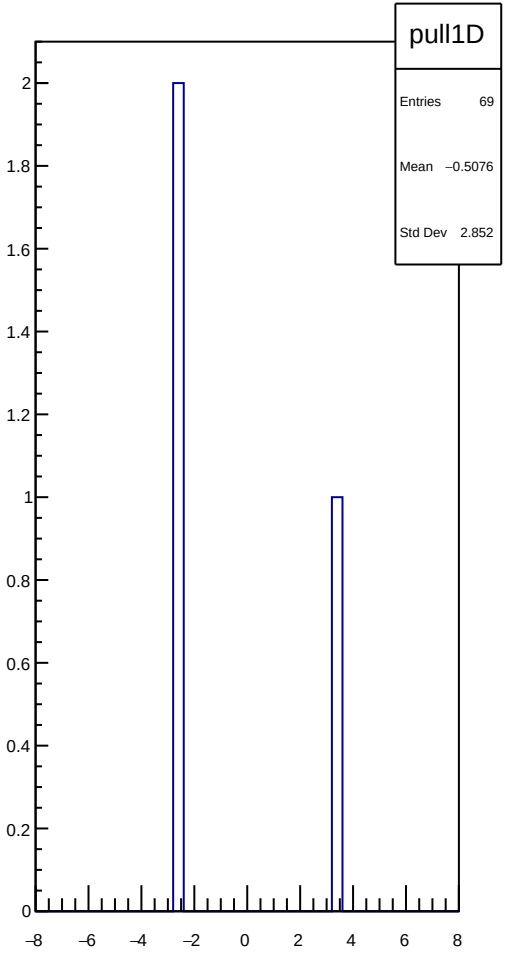

yield_bcm_an_ds_mean vs run
χ² / ndf 3.561e+05 / 68
p0 145.5 ± 0.0007559
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
pull
Entries 69
Mean −365.4
Std Dev 408.3
200
150
100
50
0
−50
pull1D
Entries 69
Mean −1.147
Std Dev 1.388
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

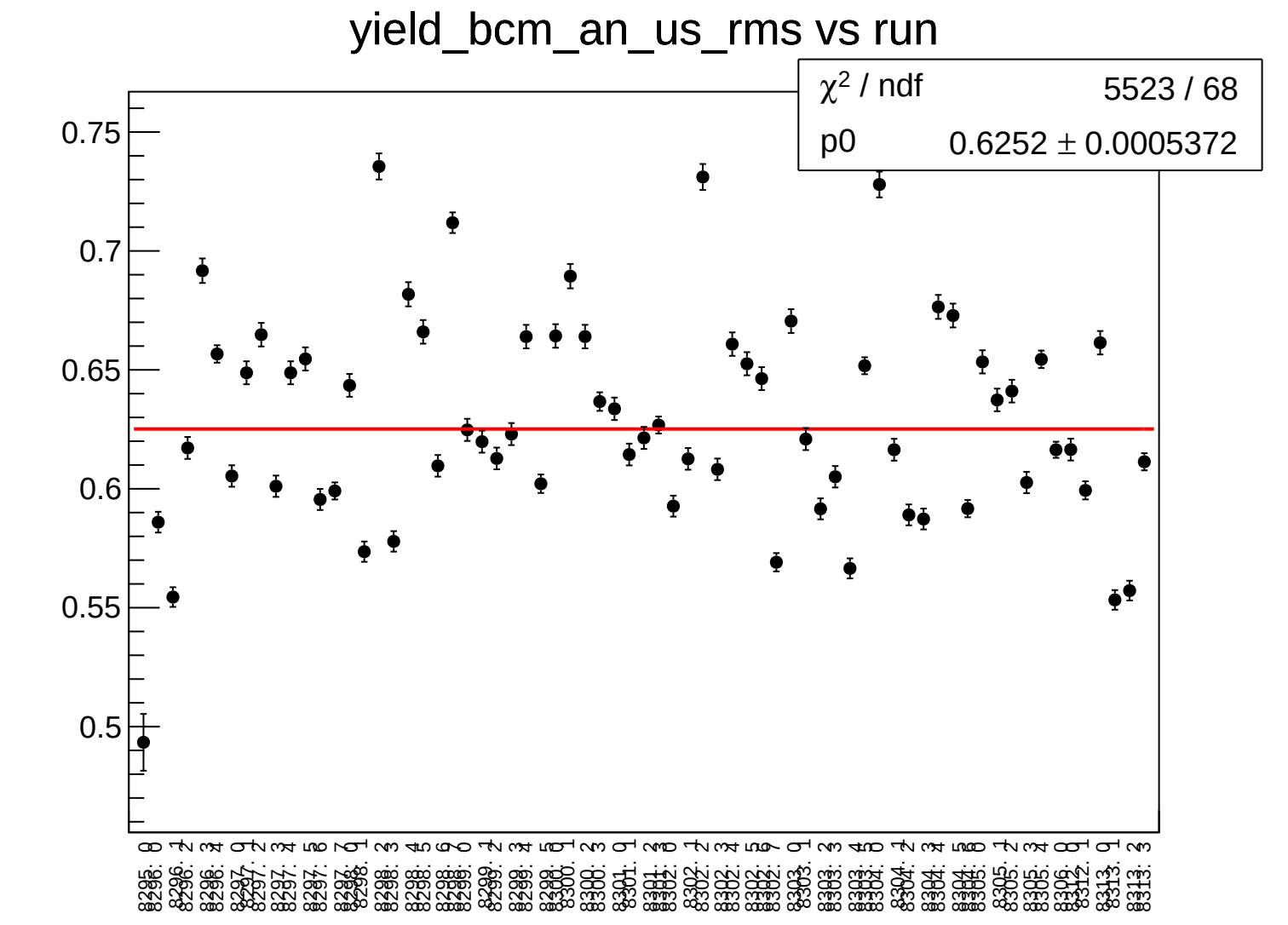

yield_bcm_an_ds_rms vs run
χ² / ndf 5582 / 68
p0 0.622 ± 0.0005345
0.75
0.7
0.65
0.6
0.55
0.5

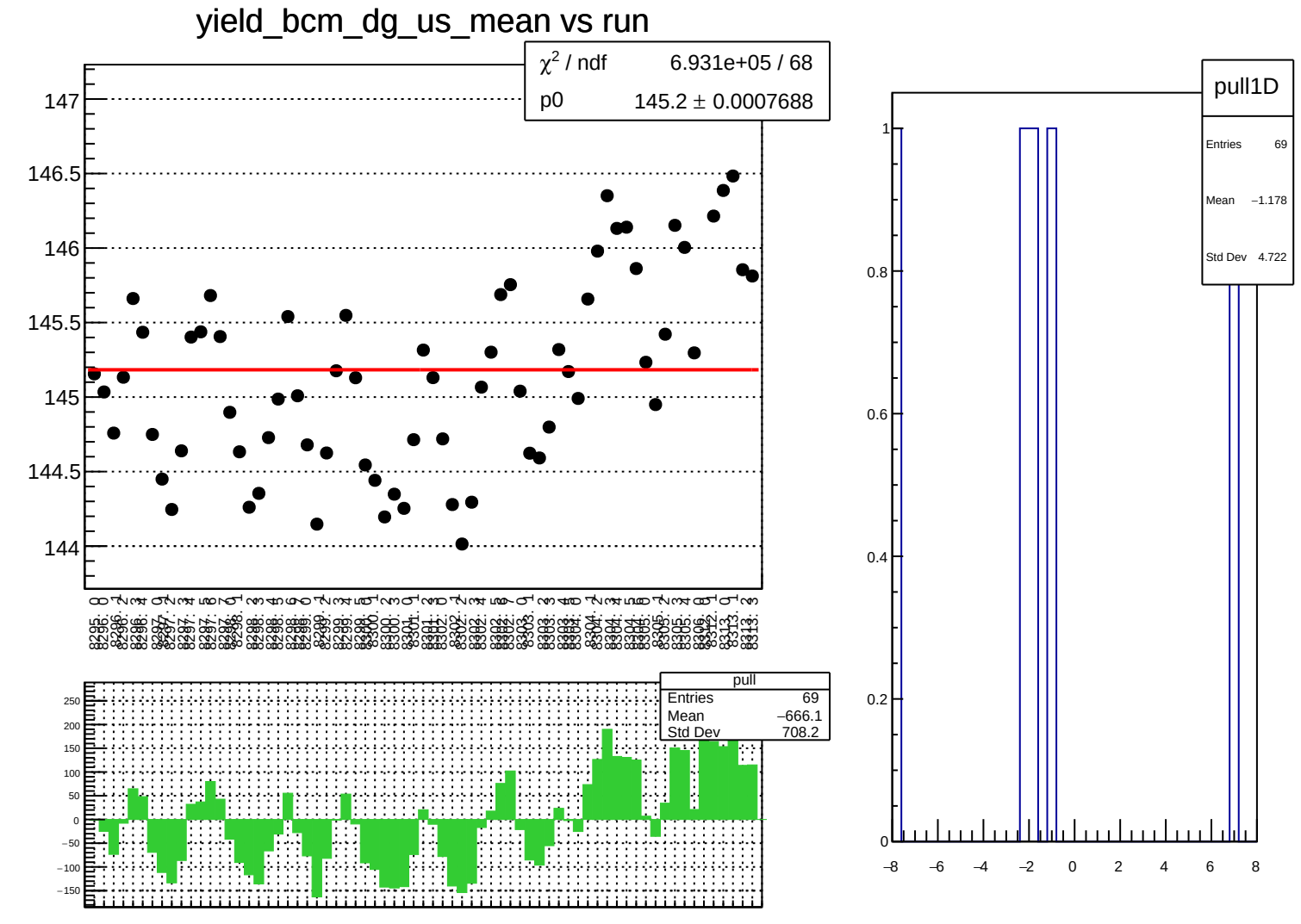

yield_bcm_an_ds3_mean vs run
χ² / ndf 3.512e+05 / 68
p0 145.8 ± 0.0007611
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 69
Mean −367.4
Std Dev 410.2
200
150
100
50
0
−50
pull1D
Entries 69
Mean −1.791
Std Dev 2.04
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

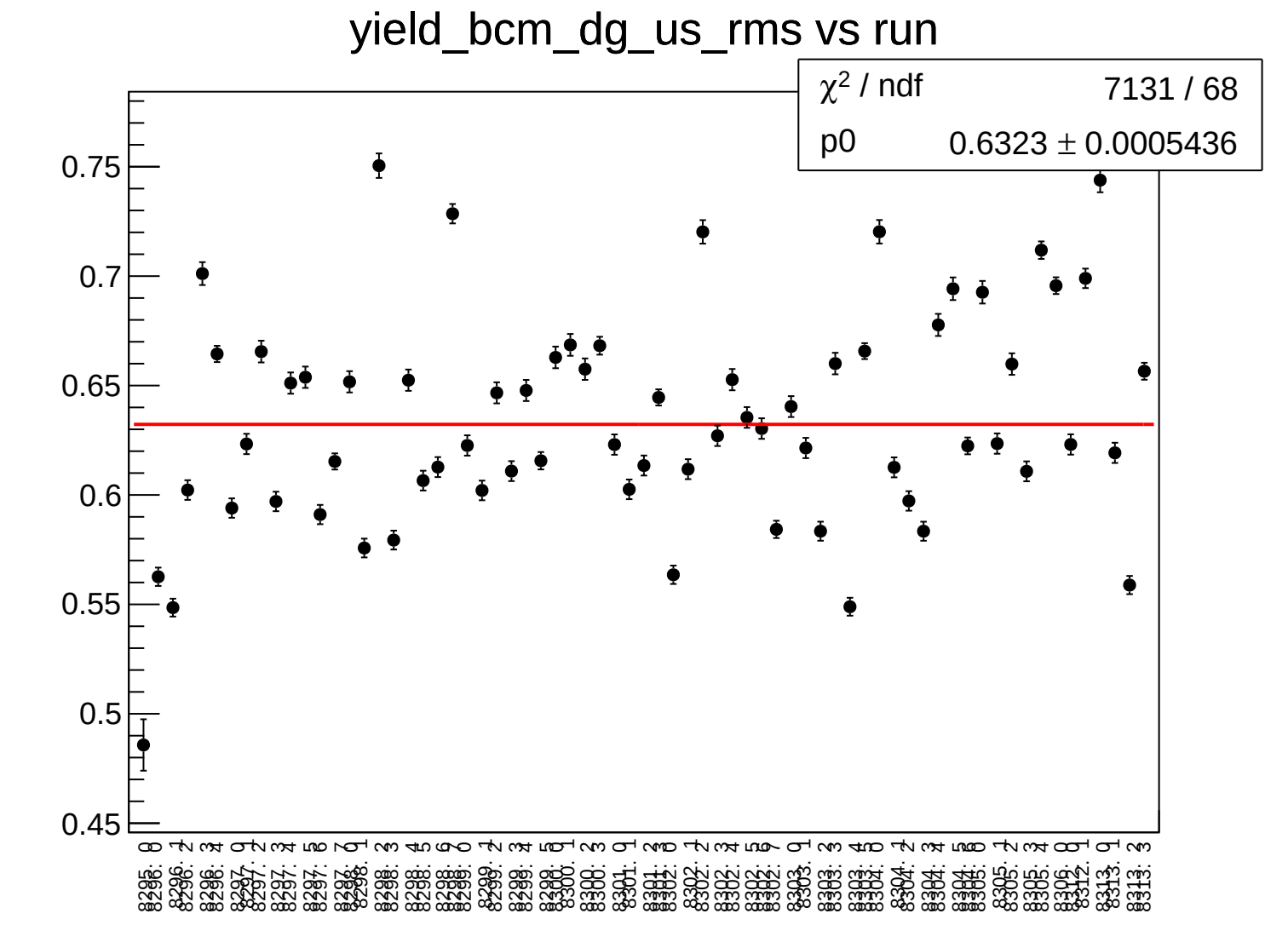

yield_bcm_an_ds3_rms vs run
χ² / ndf 5606 / 68
p0 0.6263 ± 0.0005382
0.75
0.7
0.65
0.6
0.55
0.5

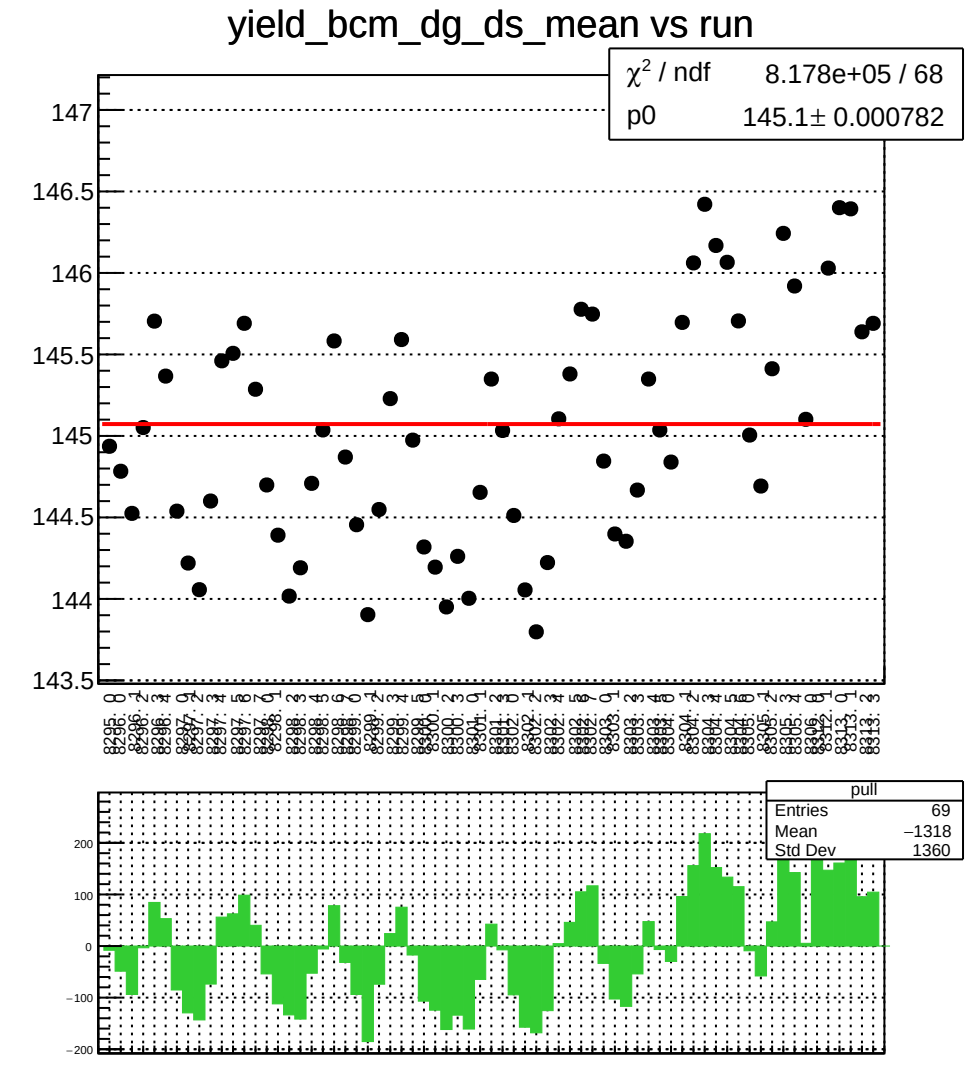

yield_bcm_an_us_mean vs run
χ² / ndf 3.584e+05 / 68
p0 145.5 ± 0.0007597
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
144.8
pull
Entries 69
Mean −371.6
Std Dev 414.1
200
150
100
50
0
−50

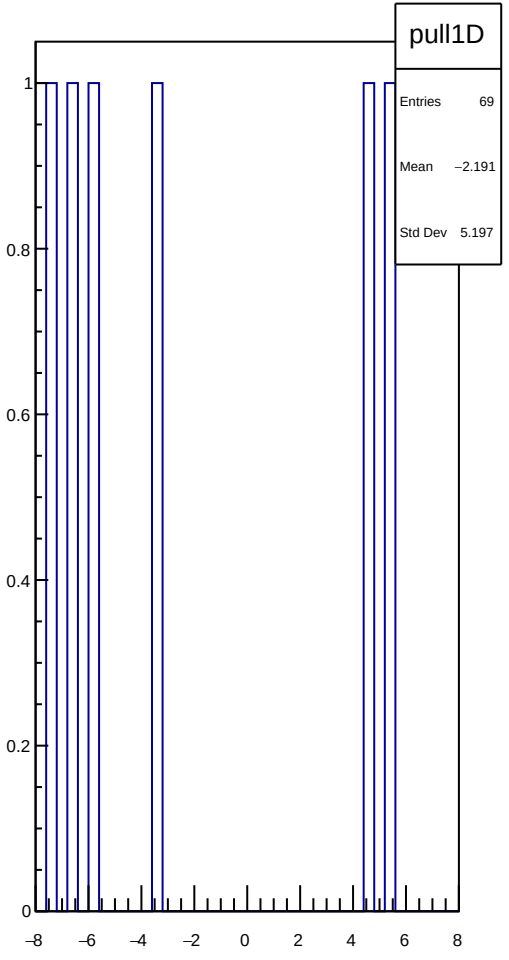

pull1D
Entries 69
Mean −0.5076
Std Dev 2.852
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

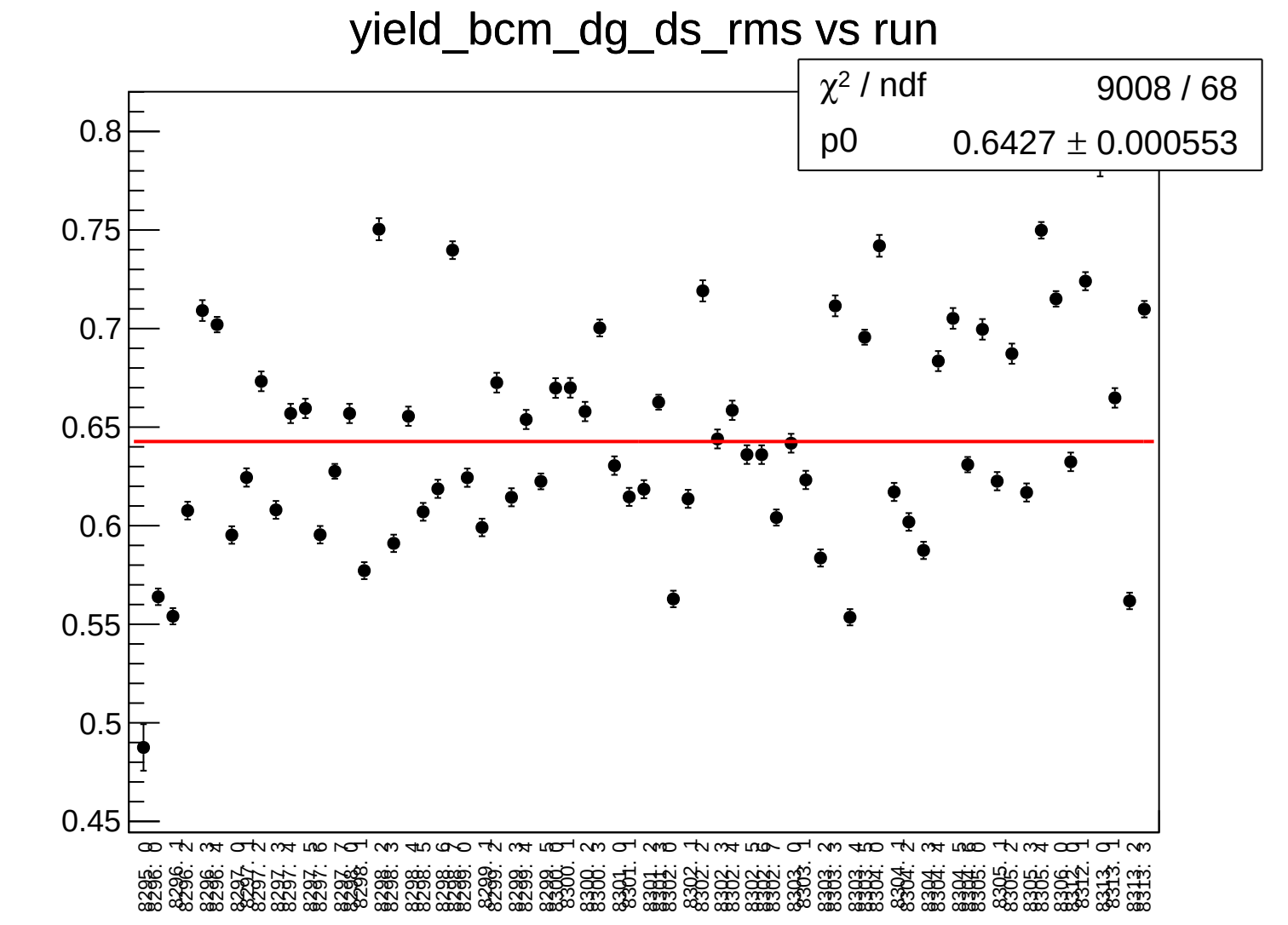

yield_bcm_an_us_rms vs run
χ² / ndf 5523 / 68
p0 0.6252 ± 0.0005372
0.75
0.7
0.65
0.6
0.55
0.5

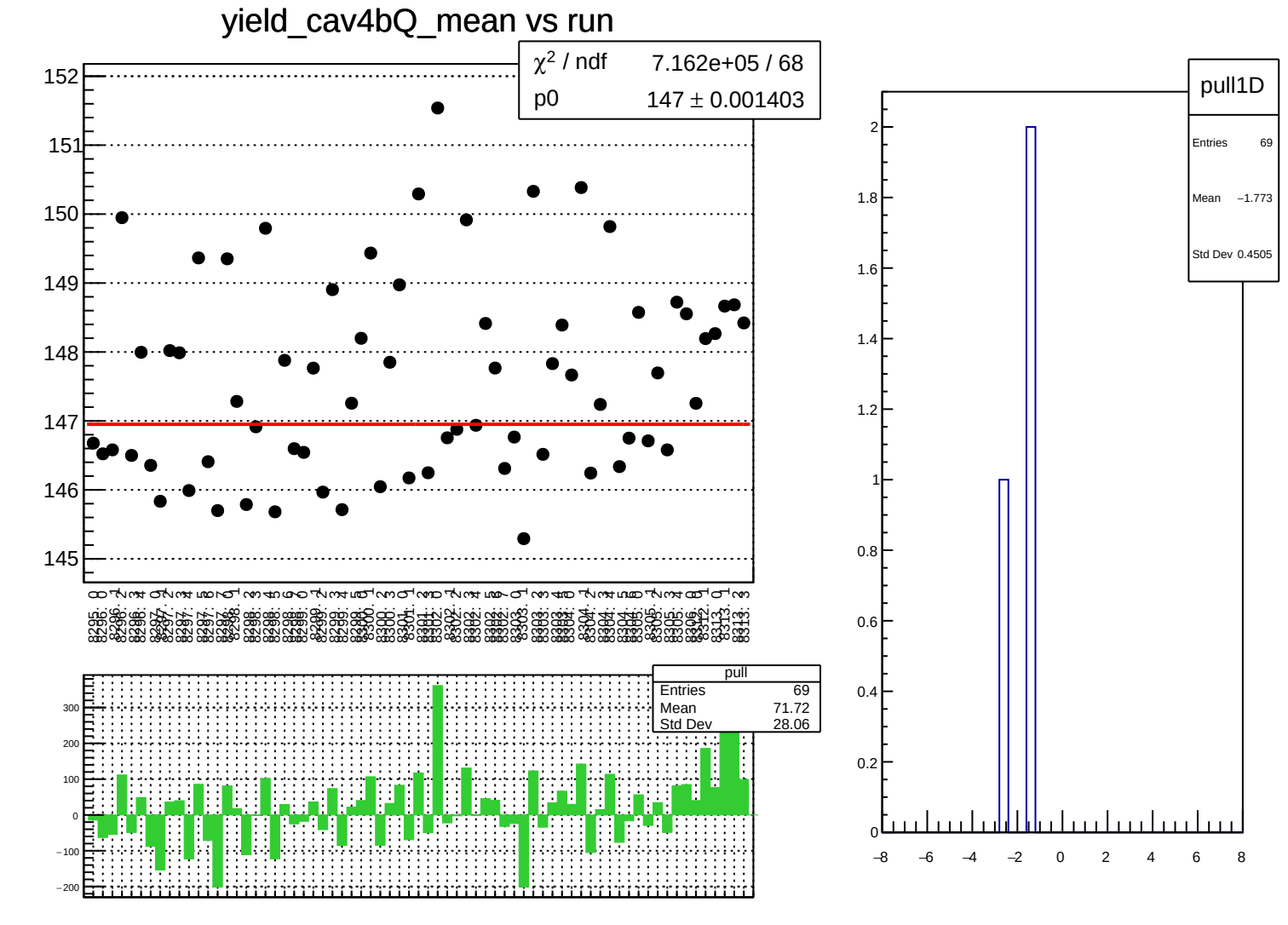

yield_bcm_dg_us_mean vs run
χ² / ndf 6.931e+05 / 68
p0 145.2 ± 0.0007688
147
146.5
146
145.5
145
144.5
144
pull
Entries 69
Mean −666.1
Std Dev 708.2
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 69
Mean −1.178
Std Dev 4.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

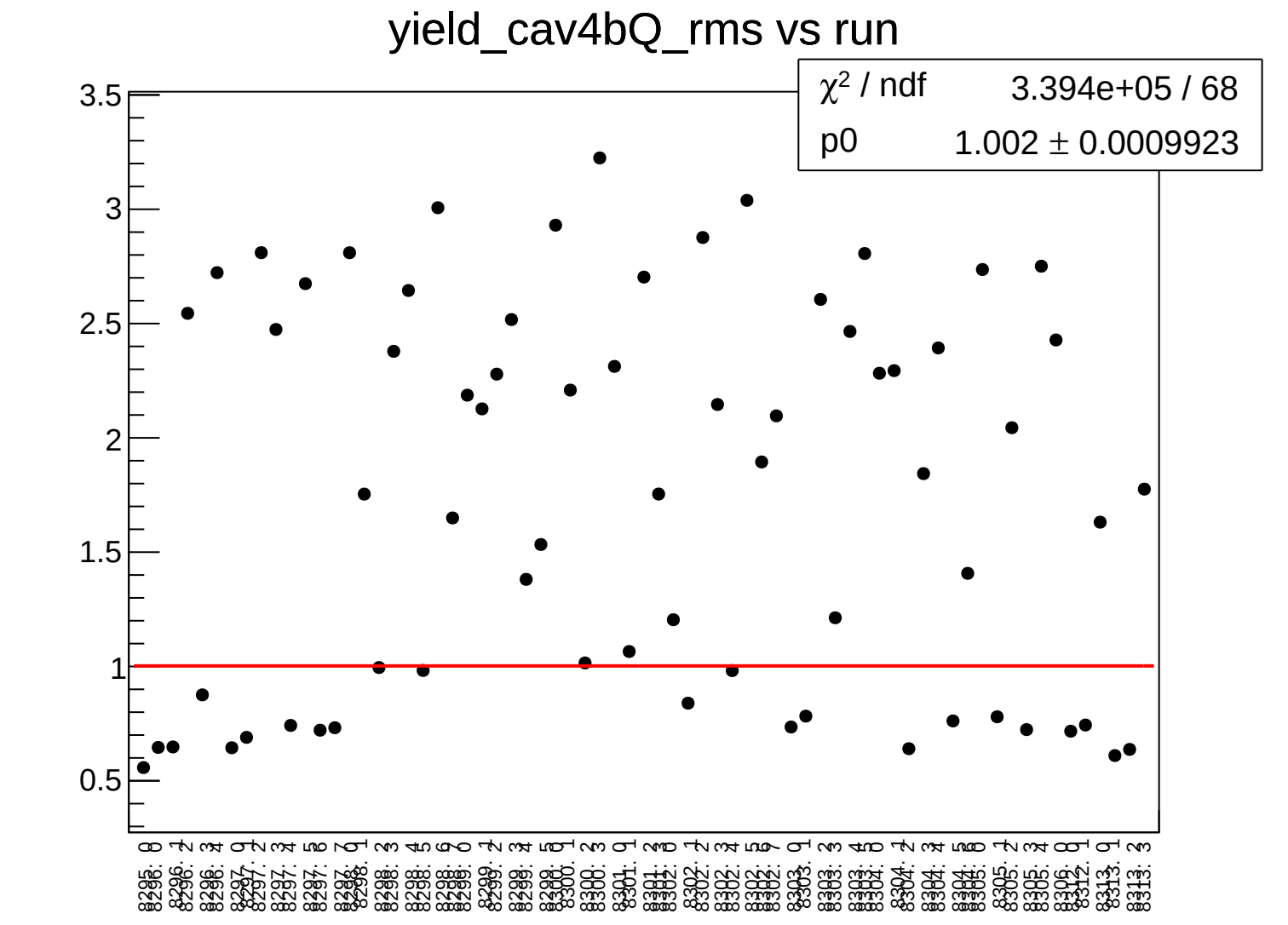

yield_bcm_dg_us_rms vs run
χ² / ndf 7131 / 68
p0 0.6323 ± 0.0005436
0.75
0.7
0.65
0.6
0.55
0.5
0.45

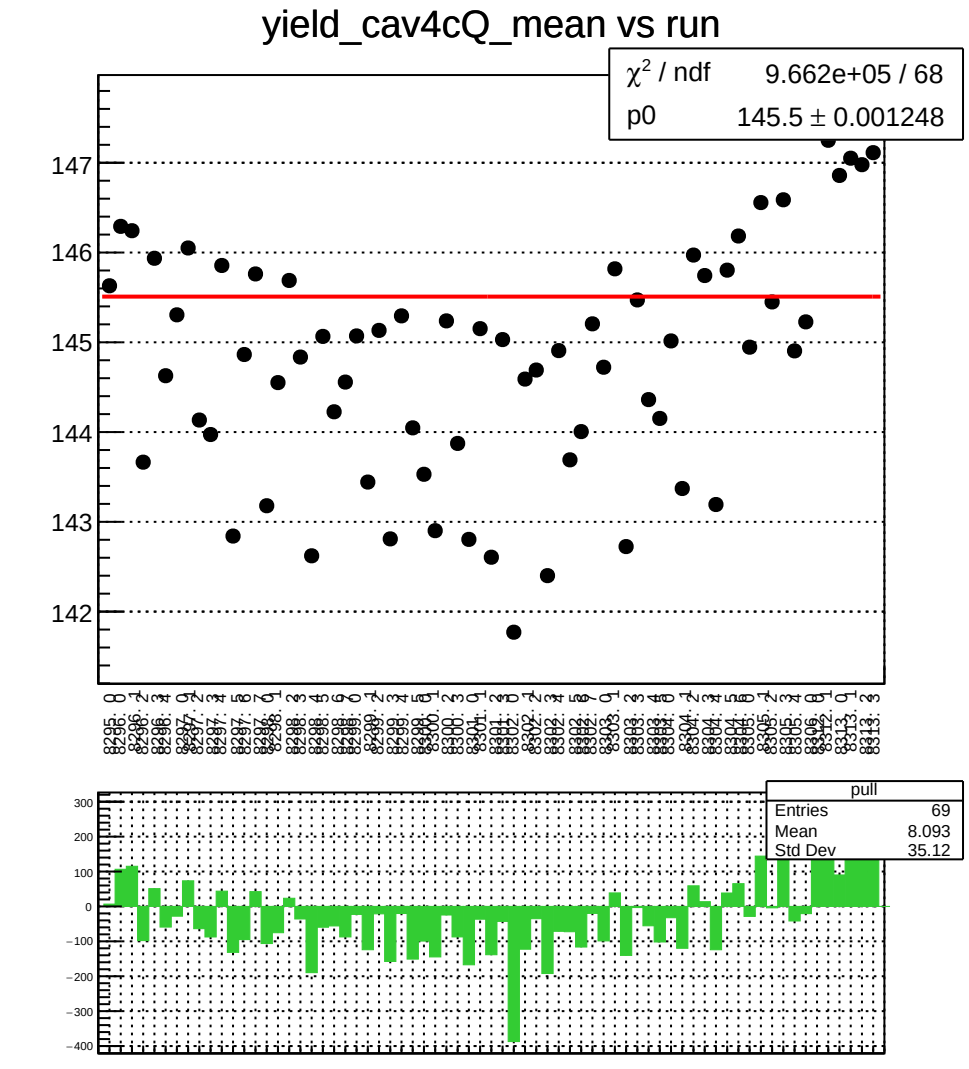

yield_bcm_dg_ds_mean vs run
χ² / ndf 8.178e+05 / 68
p0 145.1± 0.000782
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 69
Mean −1318
Std Dev 1360
200
100
0
−100
−200

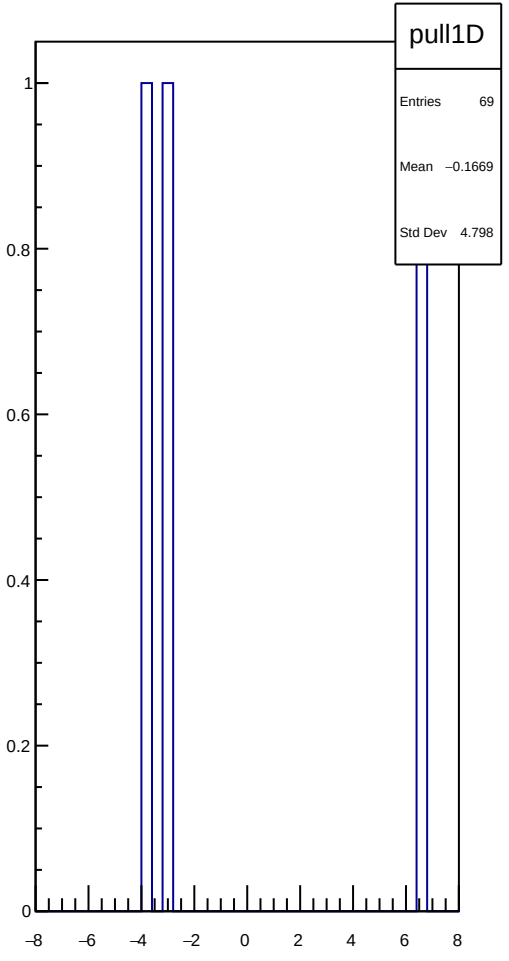

pull1D
Entries 69
Mean −2.191
Std Dev 5.197
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

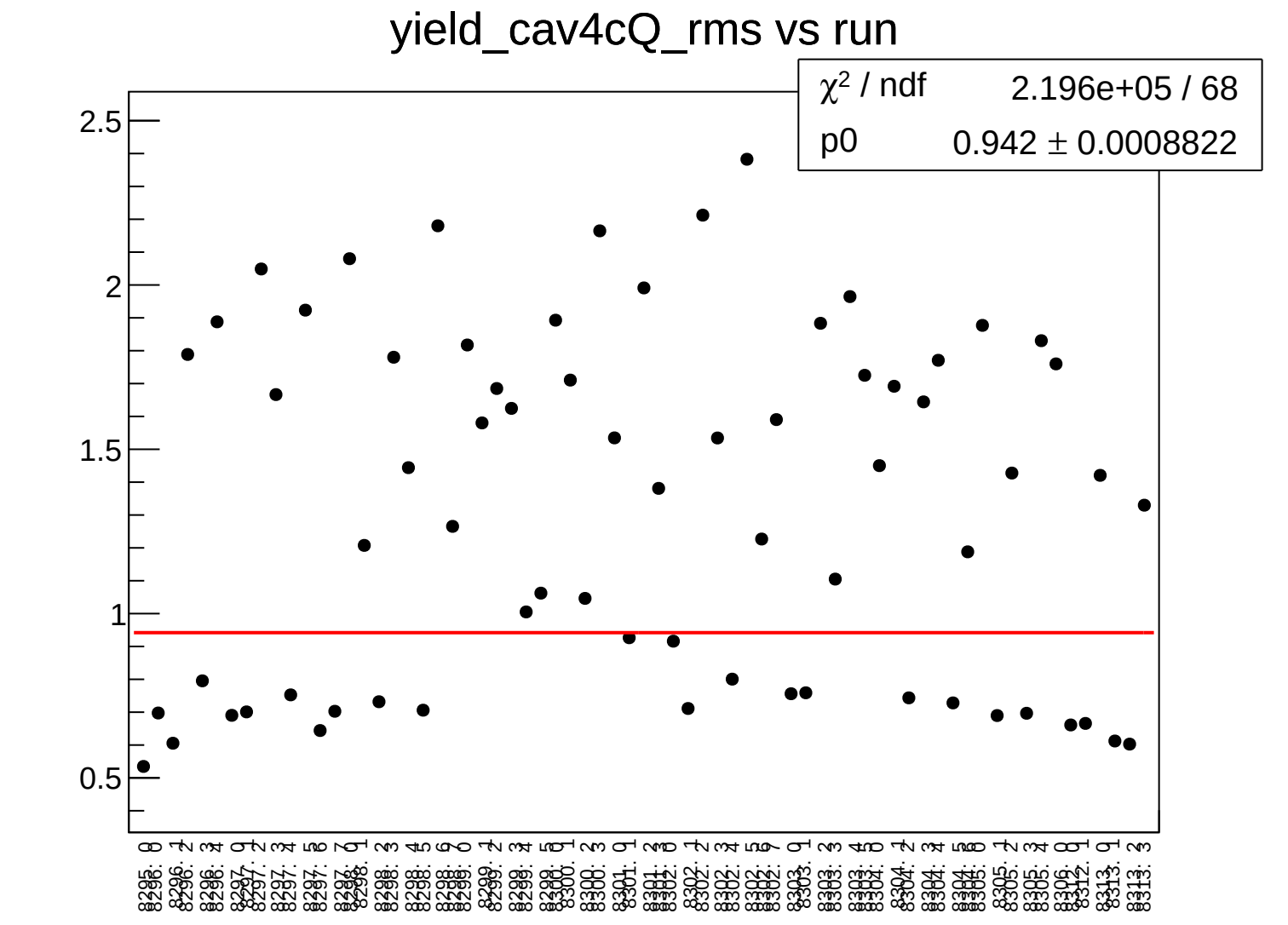

yield_bcm_dg_ds_rms vs run
χ² / ndf 9008 / 68
p0 0.6427 ± 0.000553
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

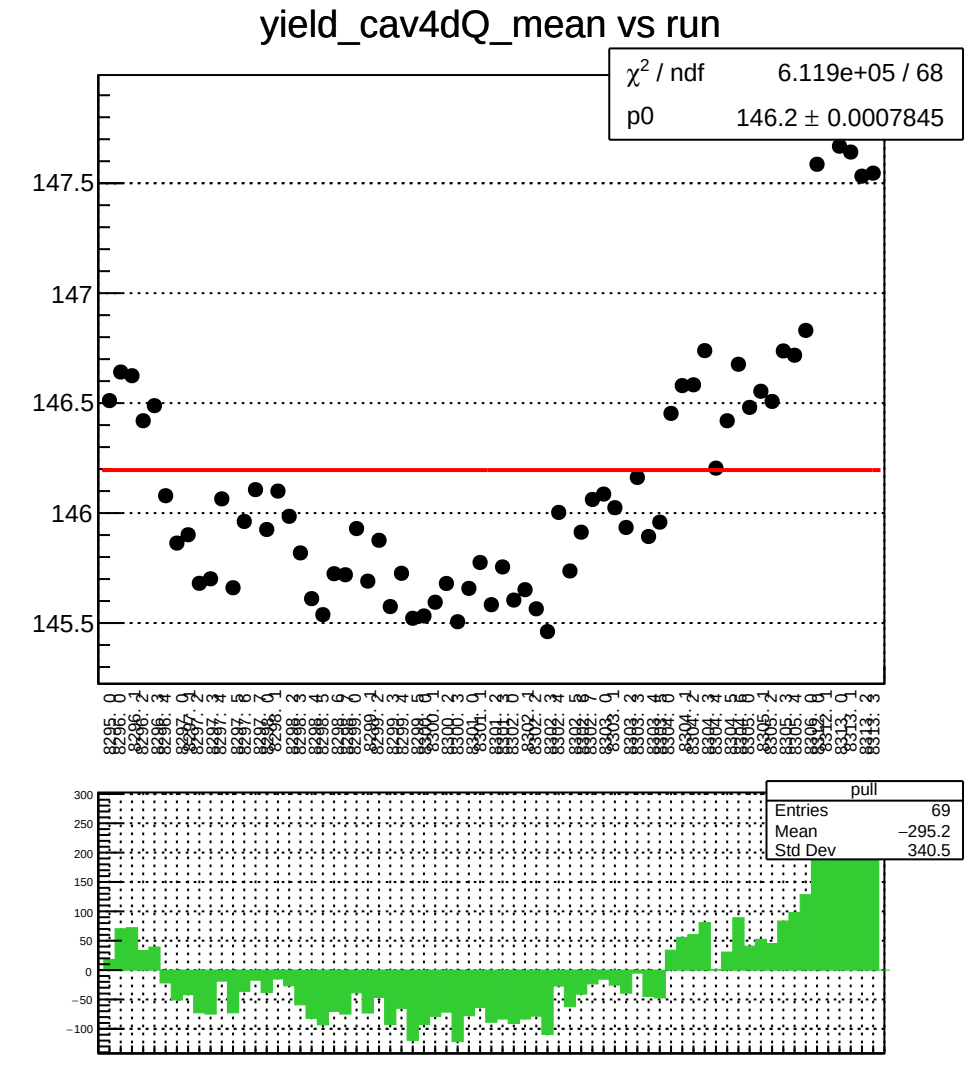

yield_cav4bQ_mean vs run
χ² / ndf 7.162e+05 / 68
p0 147 ± 0.001403
pull
Entries 69
Mean 71.72
Std Dev 28.06
pull1D
Entries 69
Mean −1.773
Std Dev 0.4505

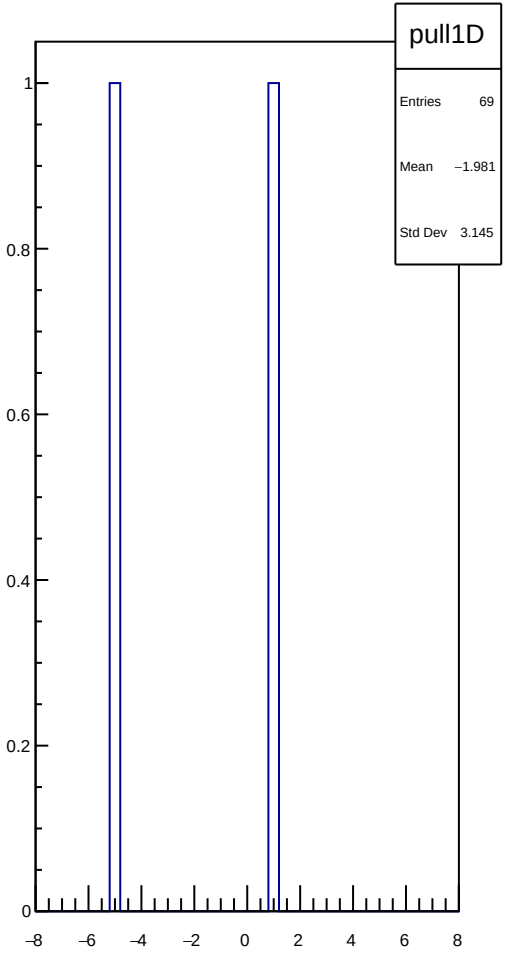

yield_cav4bQ_rms vs run
χ² / ndf 3.394e+05 / 68
p0 1.002 ± 0.0009923
3.5
3
2.5
2
1.5
1
0.5

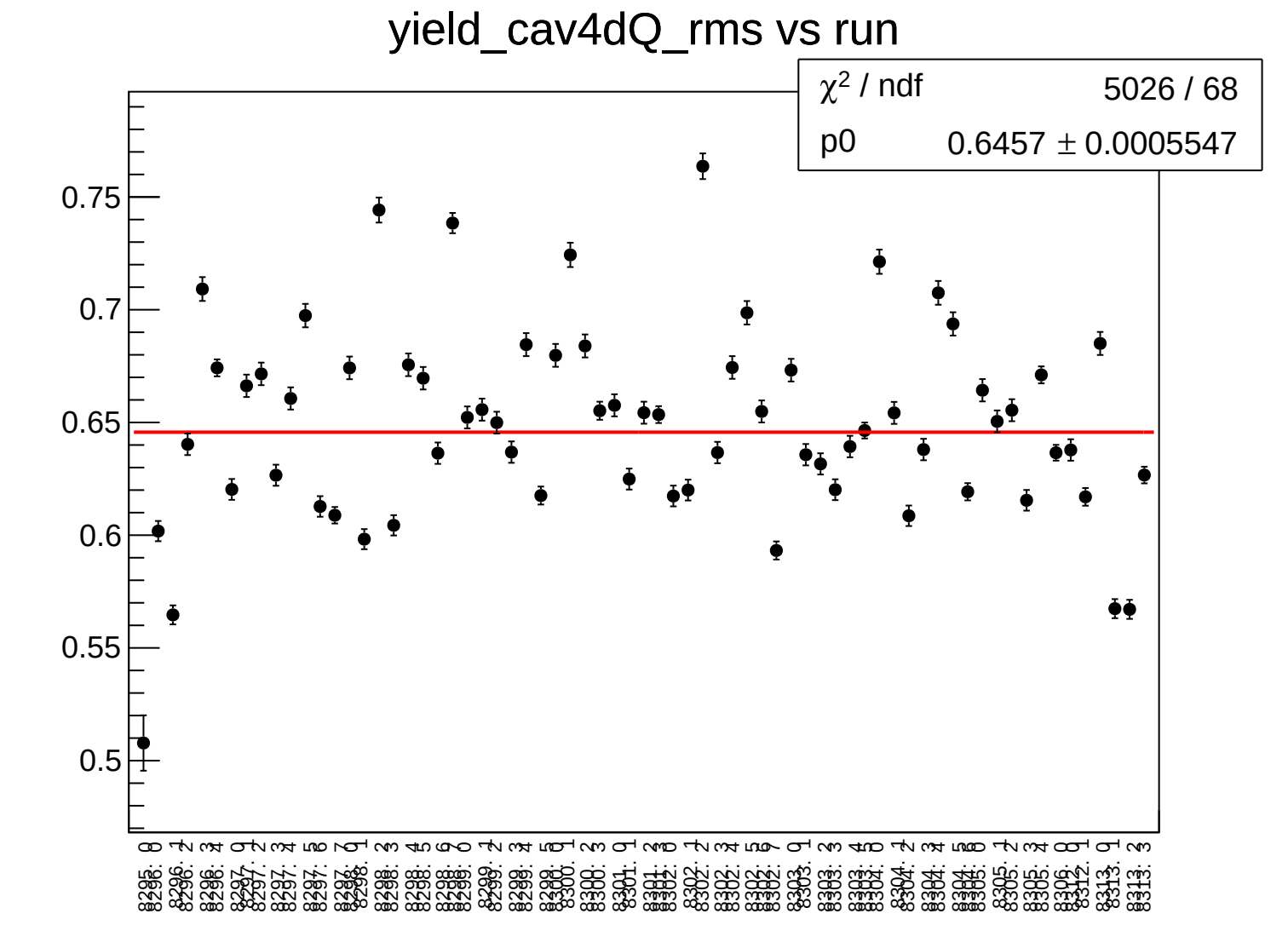

yield_cav4cQ_mean vs run
χ² / ndf 9.662e+05 / 68
p0 145.5 ± 0.001248
147
146
145
144
143
142
pull
Entries 69
Mean 8.093
Std Dev 35.12
300
200
100
0
−100
−200
−300
−400

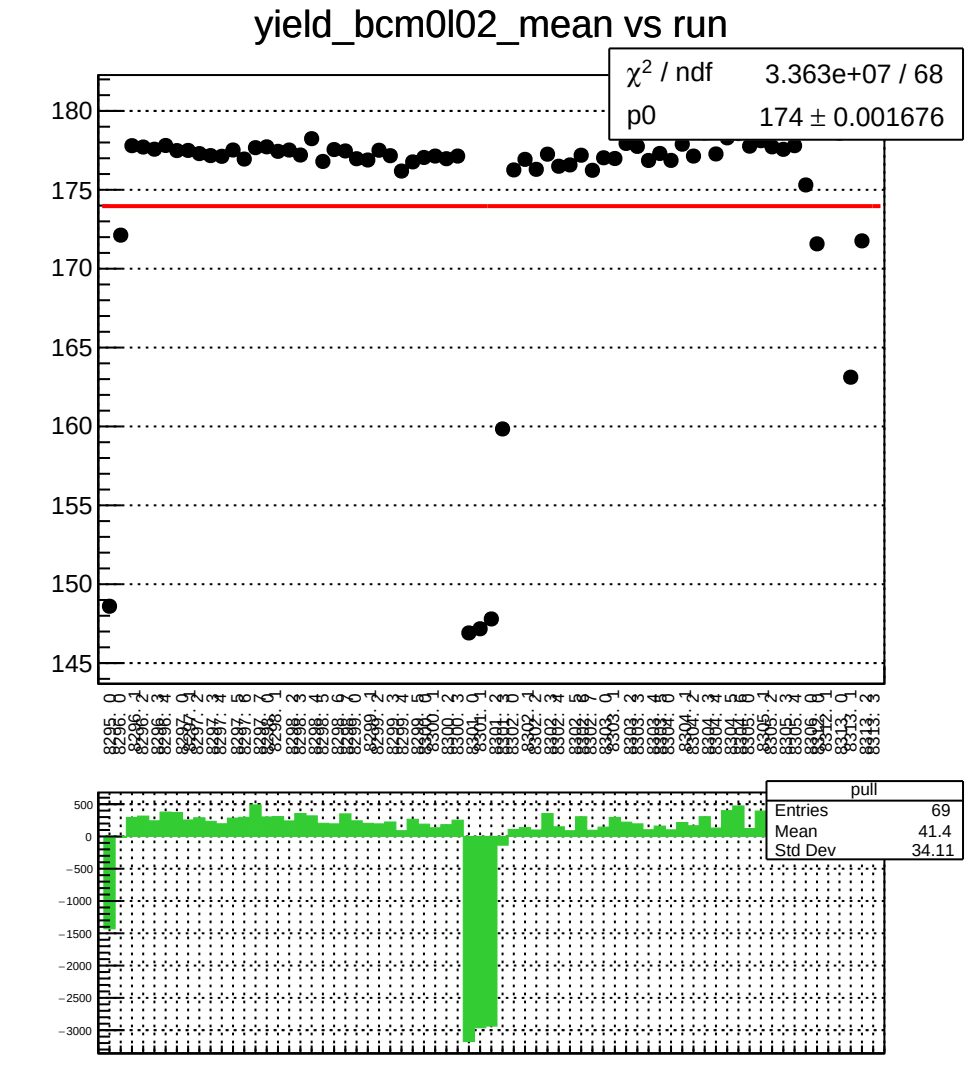

pull1D
Entries 69
Mean −0.1669
Std Dev 4.798
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

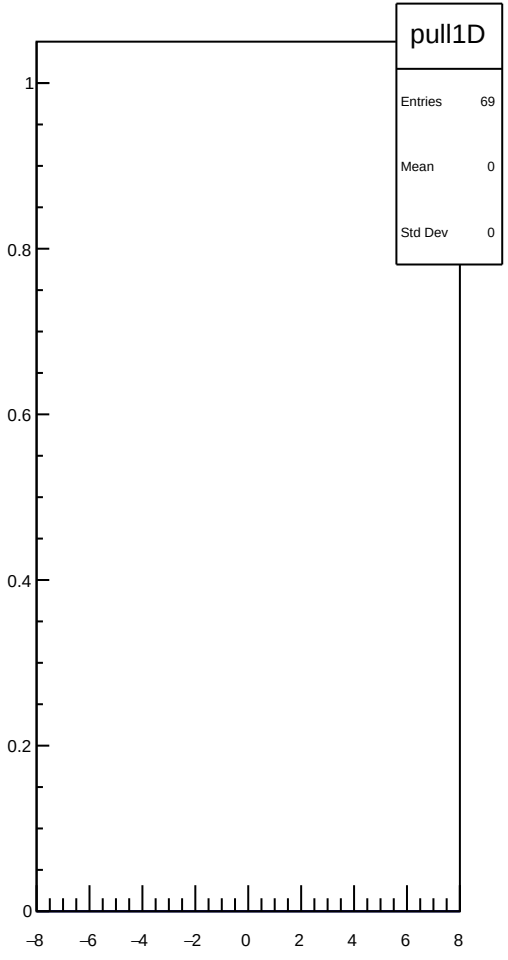

yield_cav4cQ_rms vs run
χ² / ndf 2.196e+05 / 68
p0 0.942 ± 0.0008822
2.5
2
1.5
1
0.5

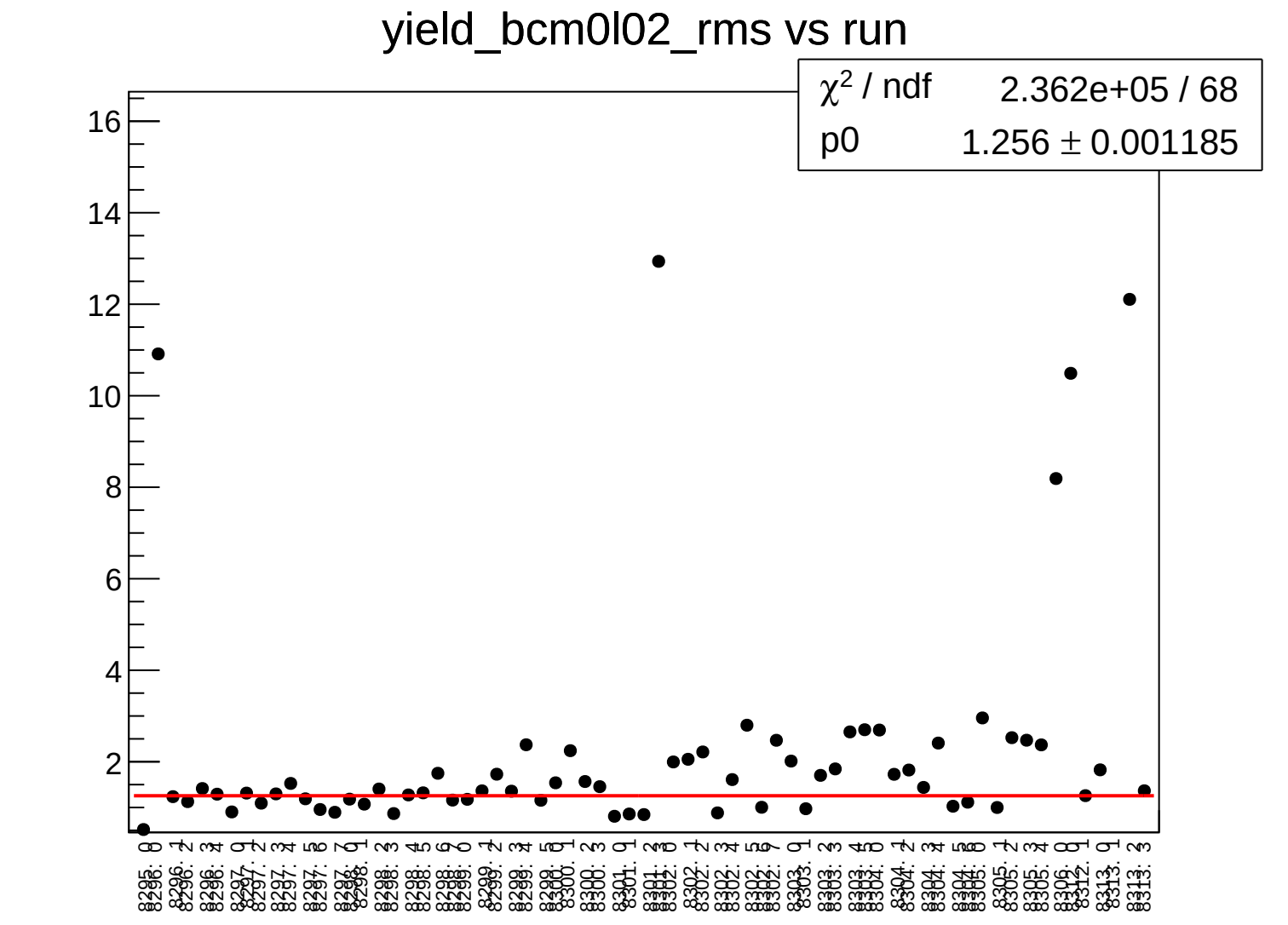

yield_cav4dQ_mean vs run
χ² / ndf 6.119e+05 / 68
p0 146.2 ± 0.0007845
147.5
147
146.5
146
145.5
pull
Entries 69
Mean −295.2
Std Dev 340.5
300
250
200
150
100
50
0
−50
−100

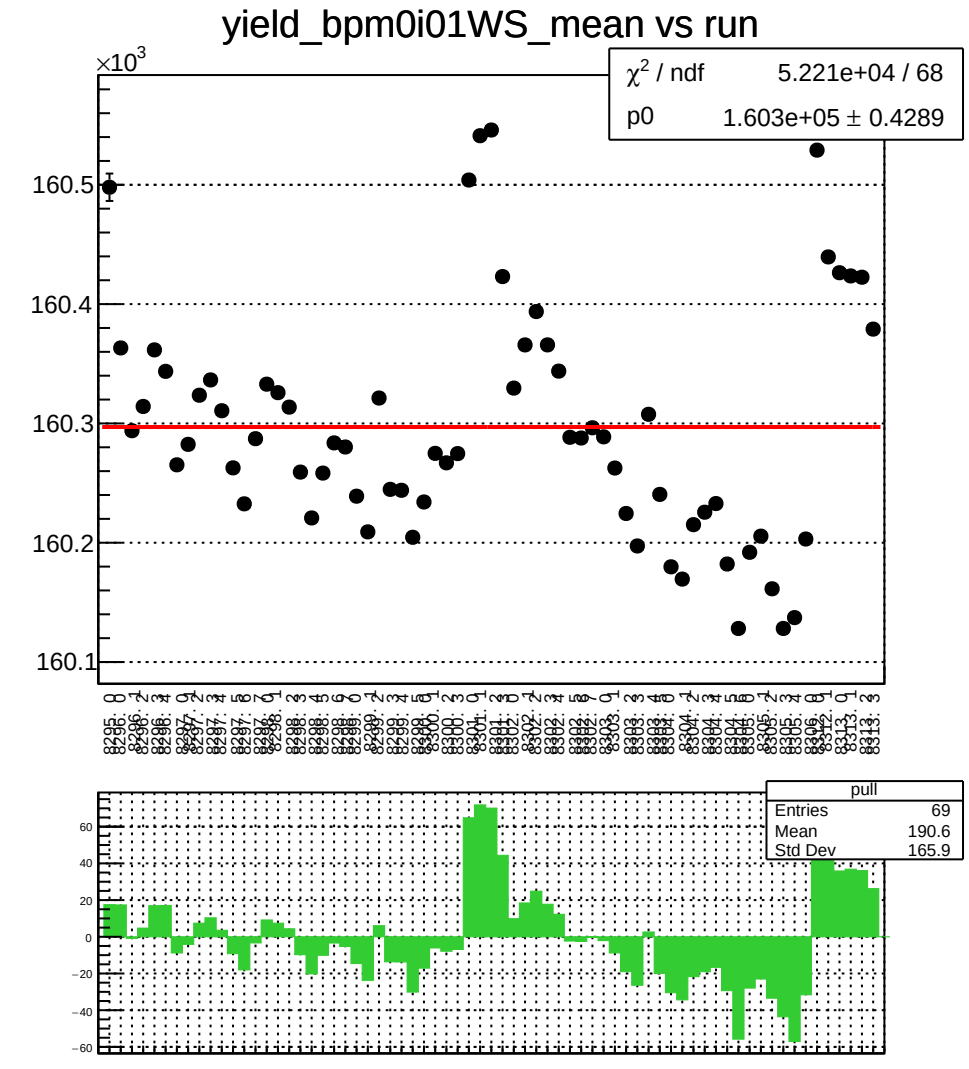

pull1D
Entries 69
Mean −1.981
Std Dev 3.145
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

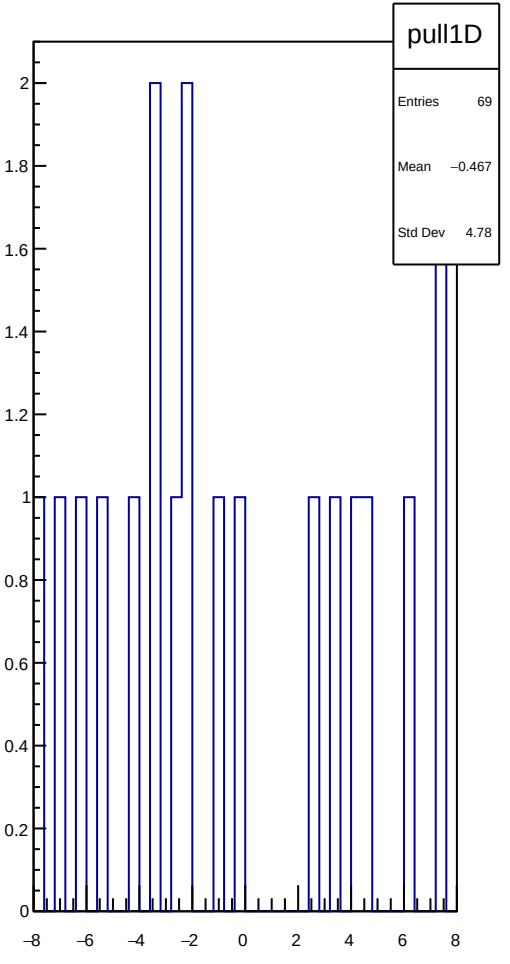

yield_cav4dQ_rms vs run
χ² / ndf 5026 / 68
p0 0.6457 ± 0.0005547
0.75
0.7
0.65
0.6
0.55
0.5

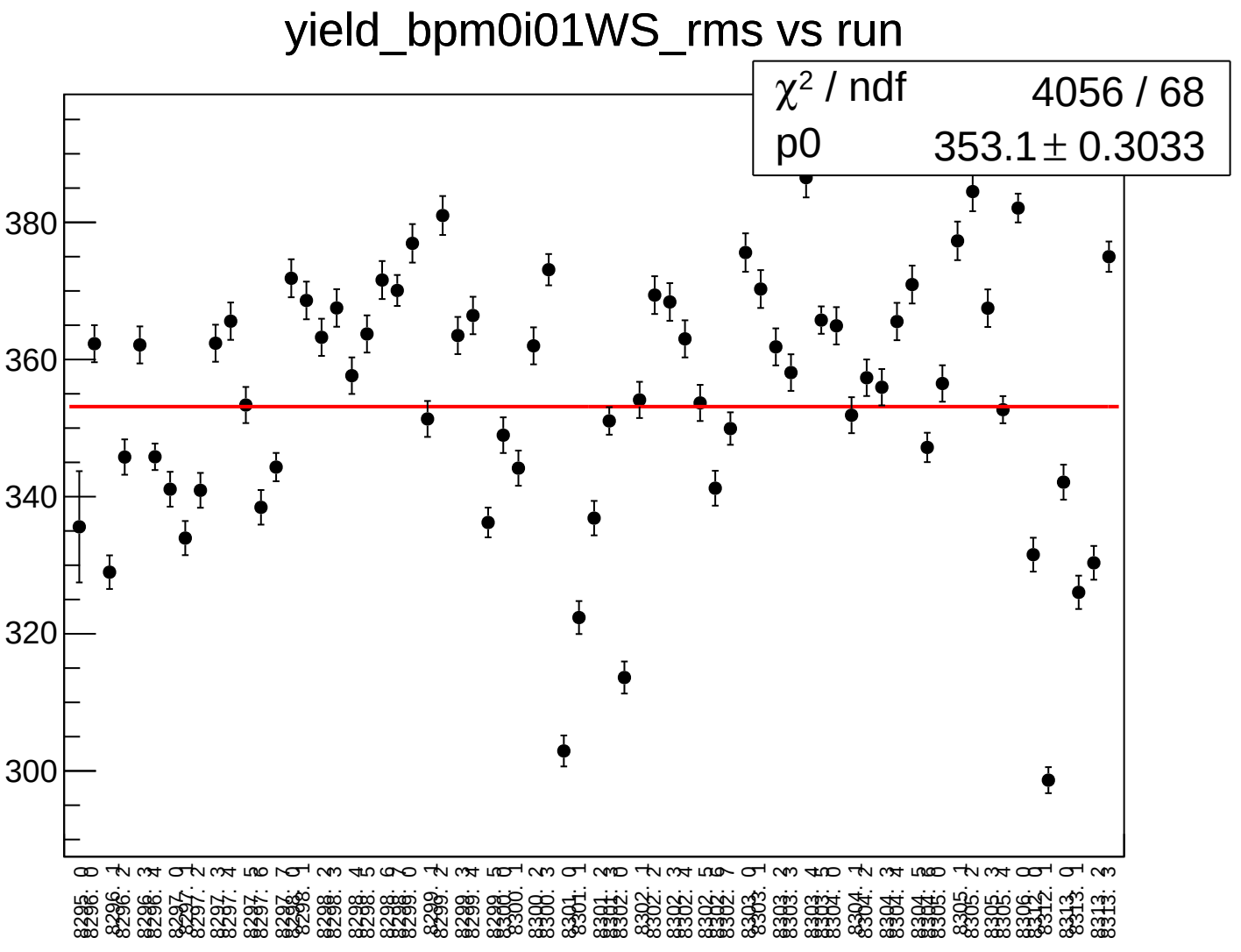

yield_bcm0l02_mean vs run
χ² / ndf 3.363e+07 / 68
p0 174 ± 0.001676
pull
Entries 69
Mean 41.4
Std Dev 34.11

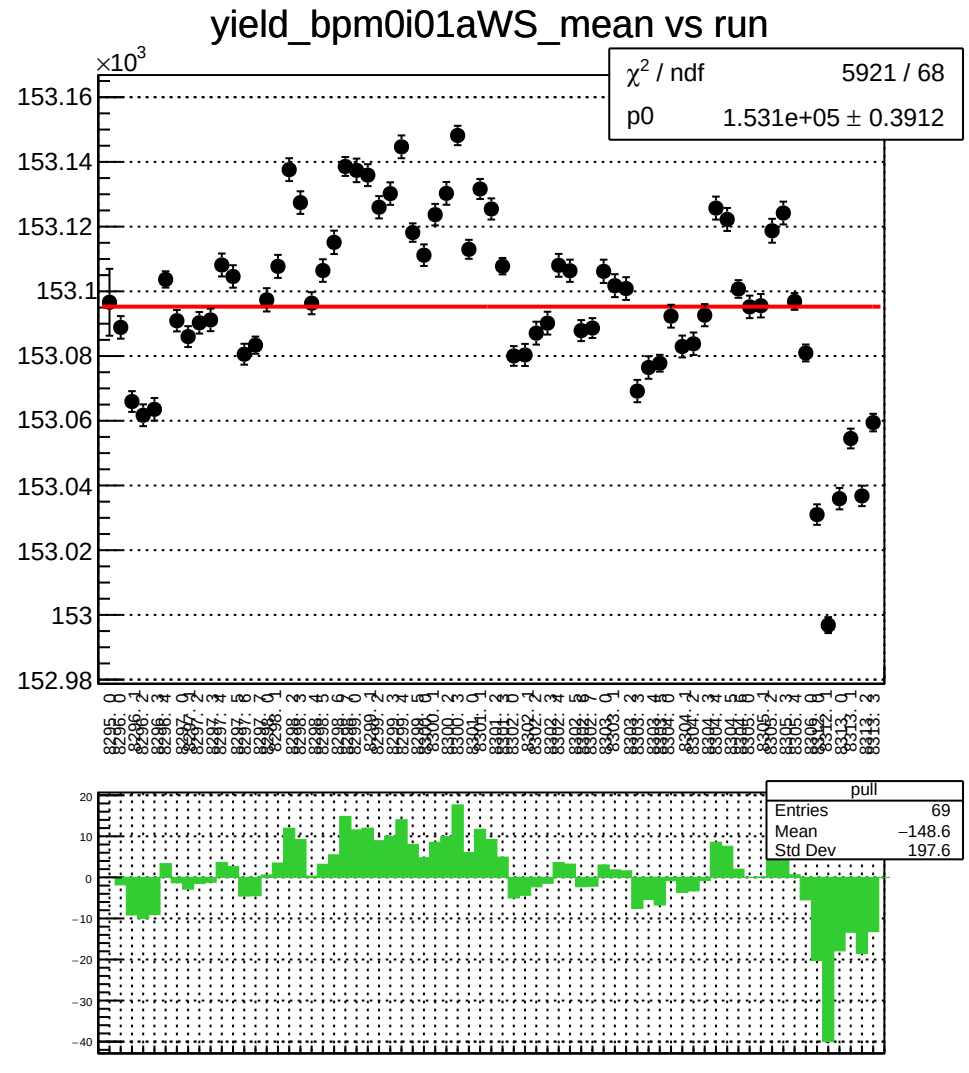

pull1D
Entries 69
Mean 0
Std Dev 0

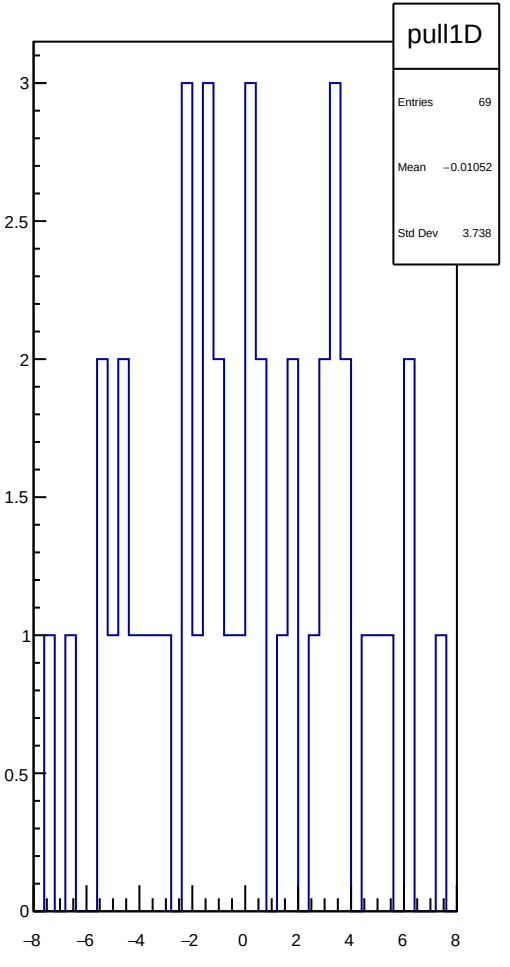

yield_bcm0l02_rms vs run
χ² / ndf 2.362e+05 / 68
p0 1.256 ± 0.001185
16
14
12
10
8
6
4
2

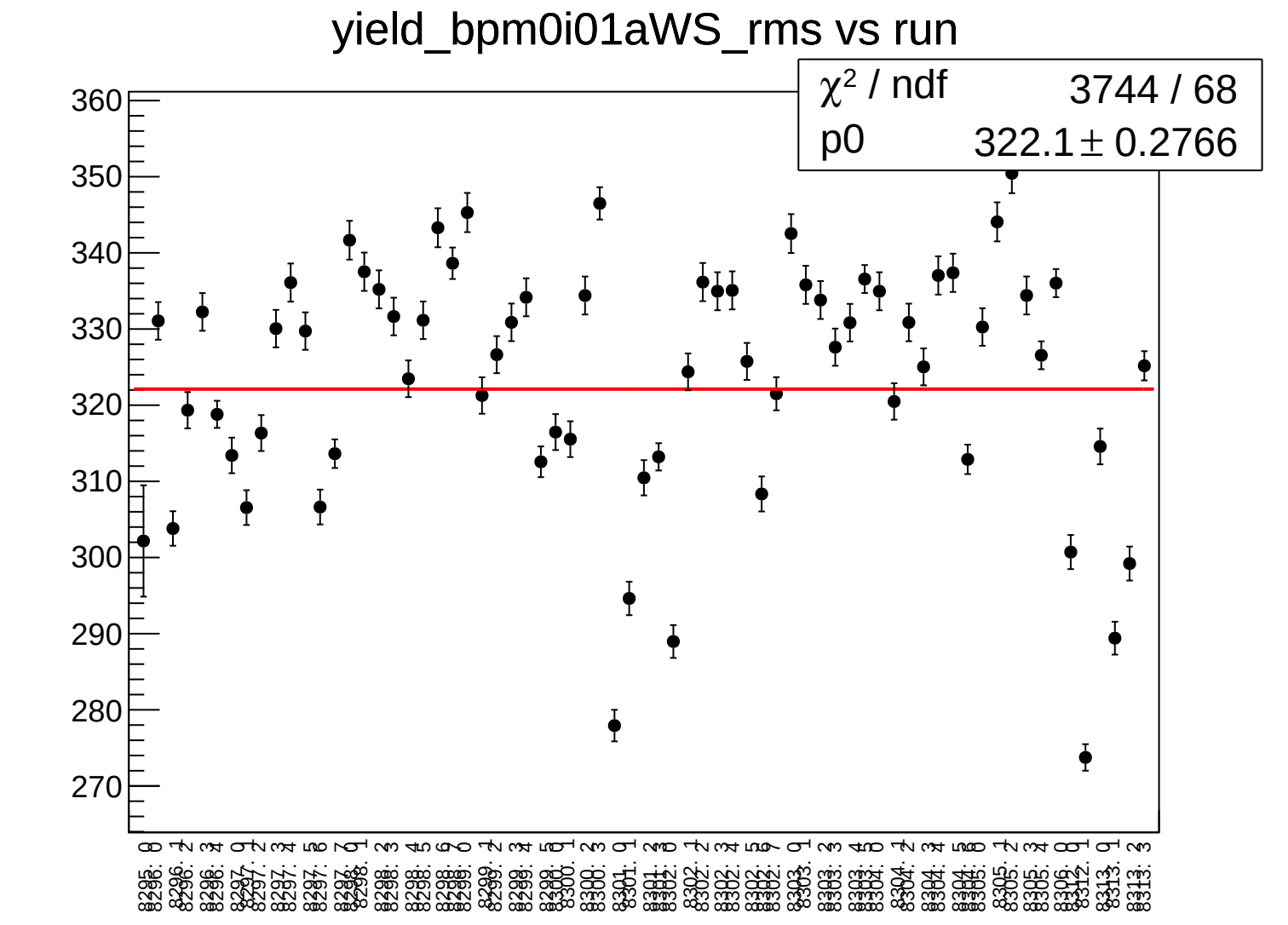

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.221e+04 / 68
p0 1.603e+05 ± 0.4289
160.5
160.4
160.3
160.2
160.1
pull
Entries 69
Mean 190.6
Std Dev 165.9
60
40
20
0
−20
−40
−60

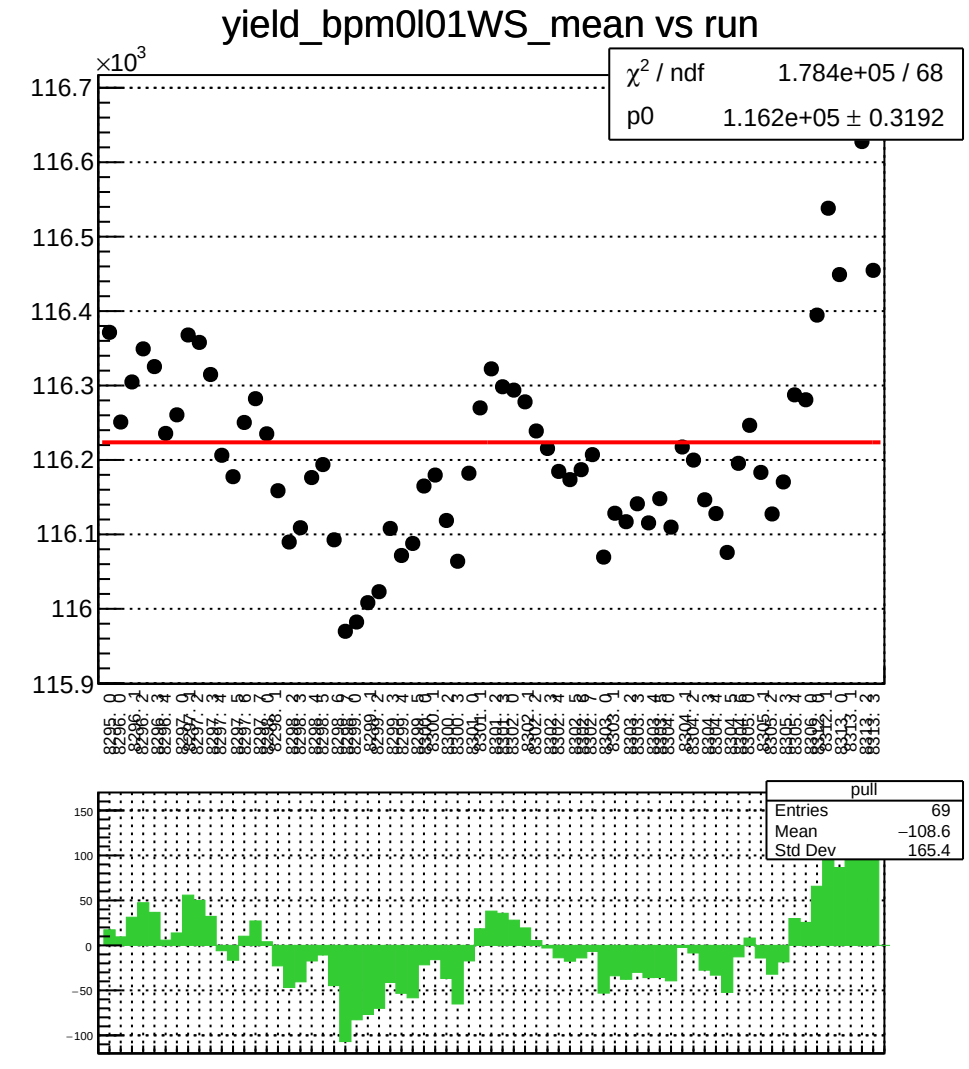

pull1D
Entries 69
Mean −0.467
Std Dev 4.78
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

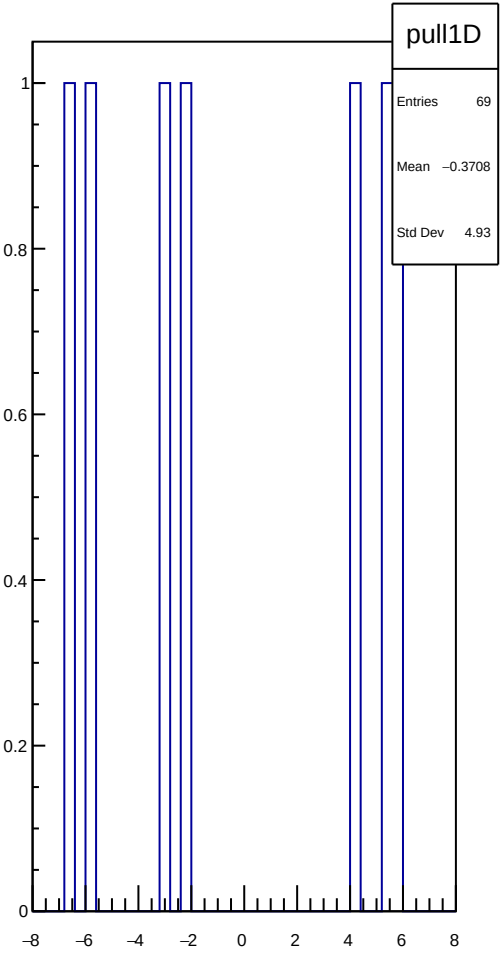

yield_bpm0i01WS_rms vs run
χ² / ndf 4056 / 68
p0 353.1 ± 0.3033
380
360
340
320
300

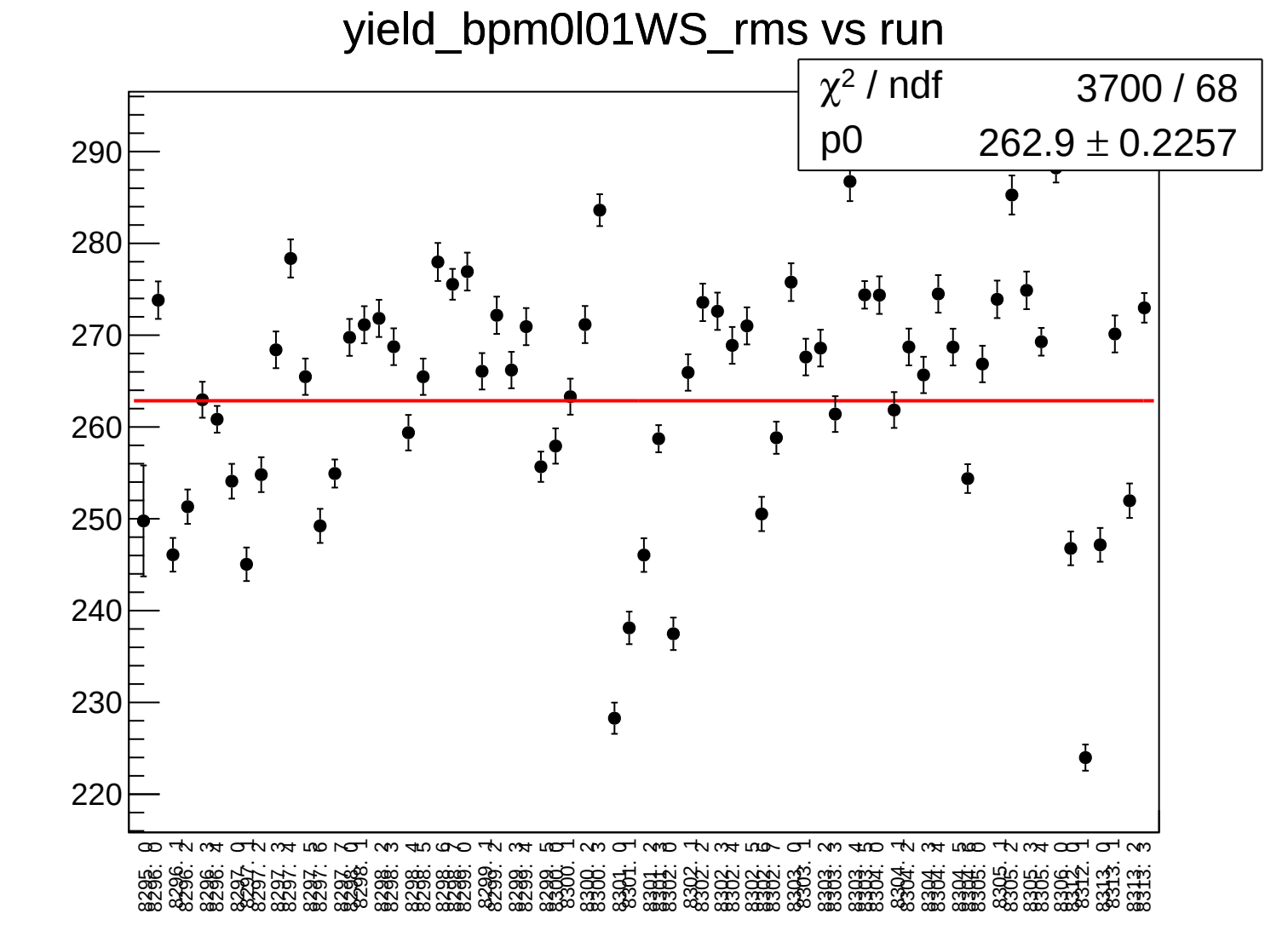

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5921 / 68
p0 1.531e+05 ± 0.3912
153.16
153.14
153.12
153.1
153.08
153.06
153.04
153.02
153
152.98
pull
Entries 69
Mean −148.6
Std Dev 197.6
20
10
0
−10
−20
−30
−40

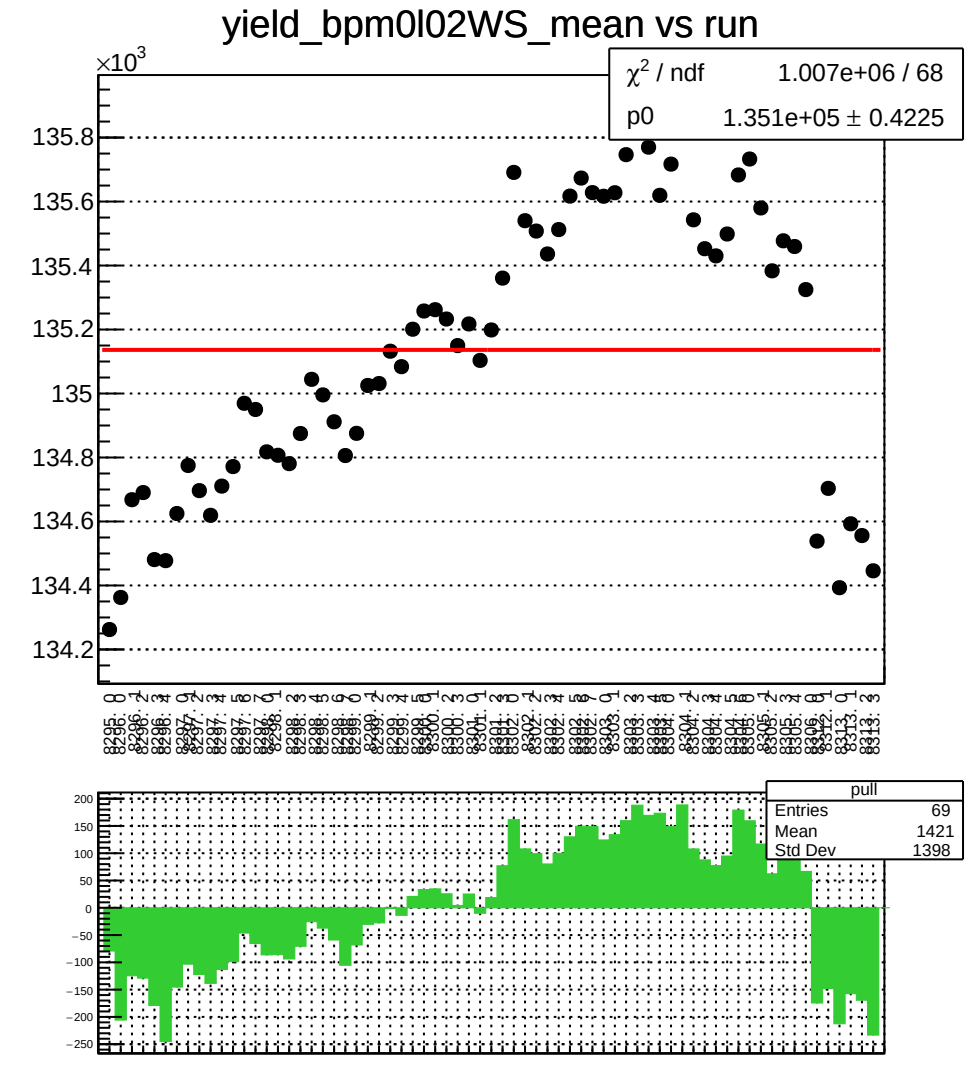

pull1D
Entries 69
Mean −0.01052
Std Dev 3.738
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

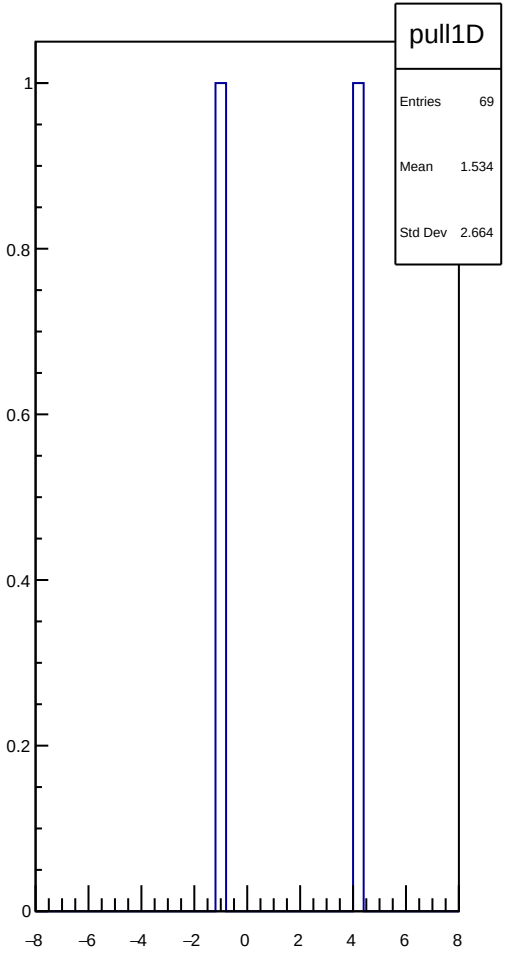

yield_bpm0i01aWS_rms vs run
χ² / ndf 3744 / 68
p0 322.1 ± 0.2766
360
350
340
330
320
310
300
290
280
270

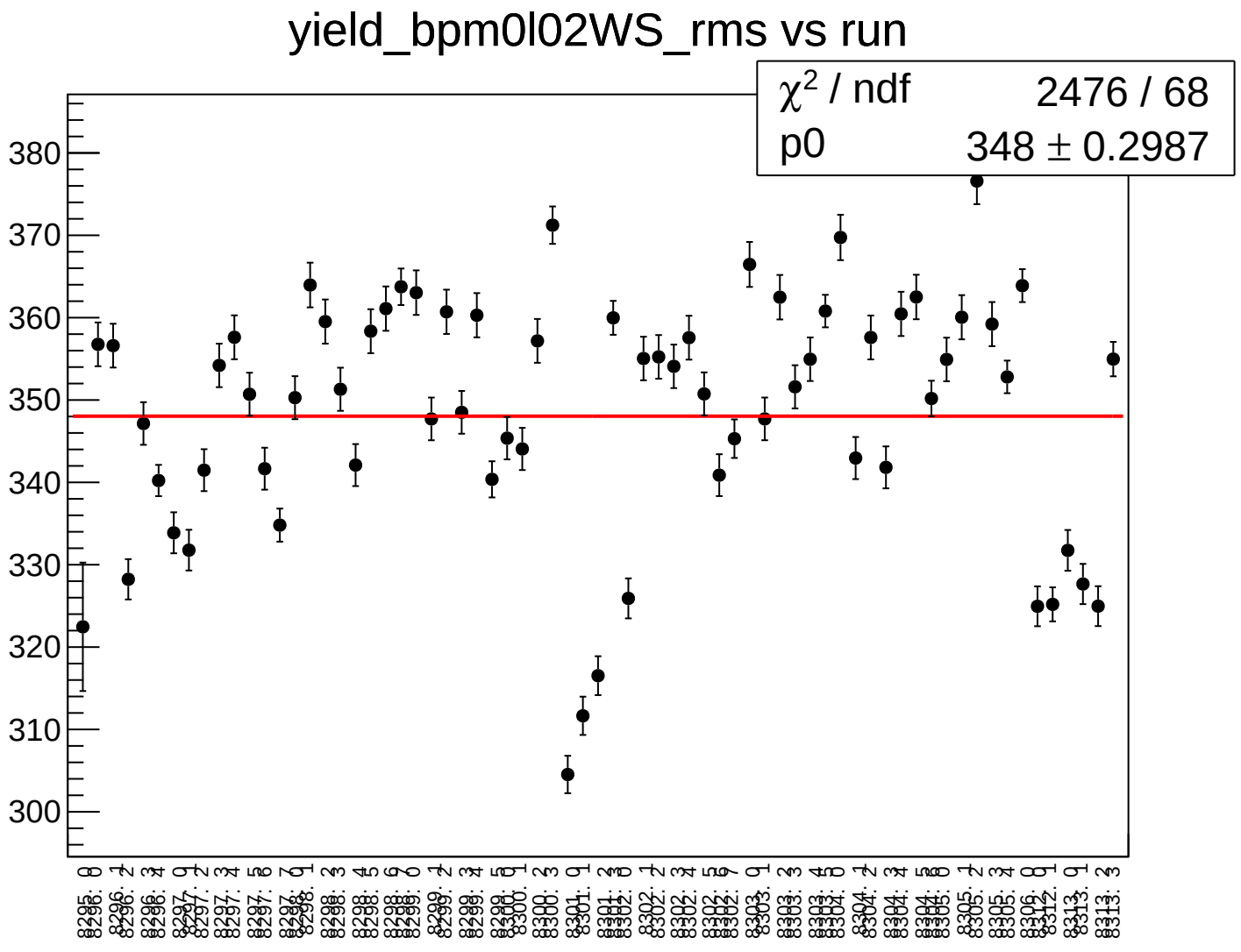

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.784e+05 / 68
p0 1.162e+05 ± 0.3192
116.7
116.6
116.5
116.4
116.3
116.2
116.1
116
115.9
pull
Entries 69
Mean −108.6
Std Dev 165.4
150
100
50
0
−50
−100

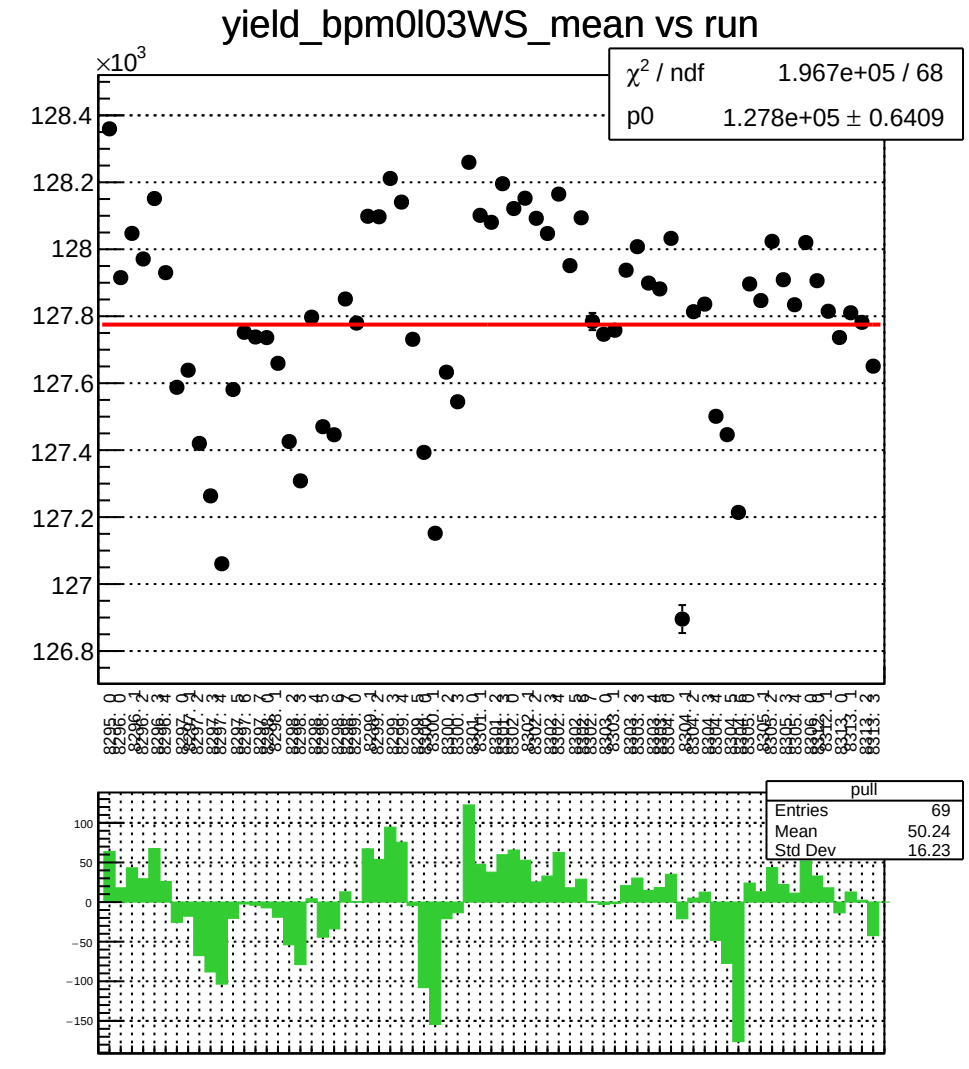

pull1D
Entries 69
Mean −0.3708
Std Dev 4.93
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

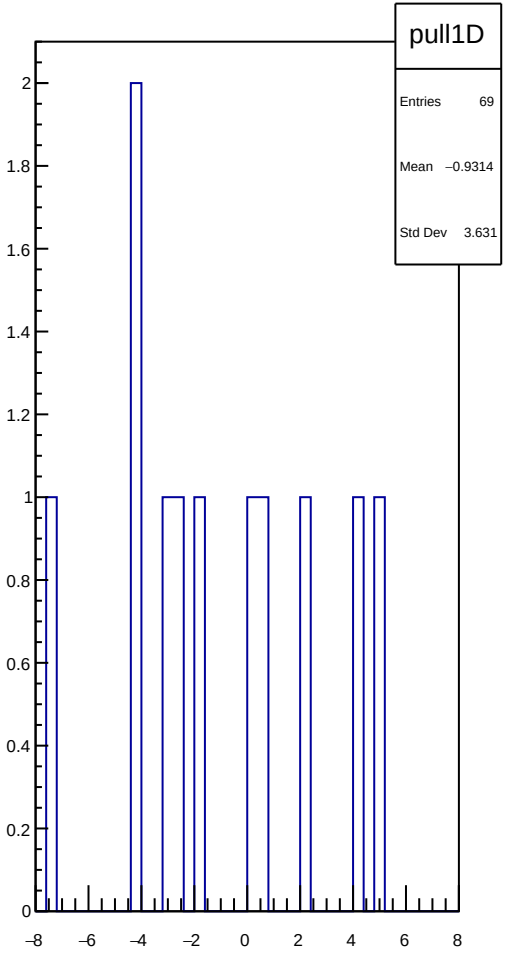

yield_bpm0l01WS_rms vs run
χ² / ndf 3700 / 68
p0 262.9 ± 0.2257
290
280
270
260
250
240
230
220

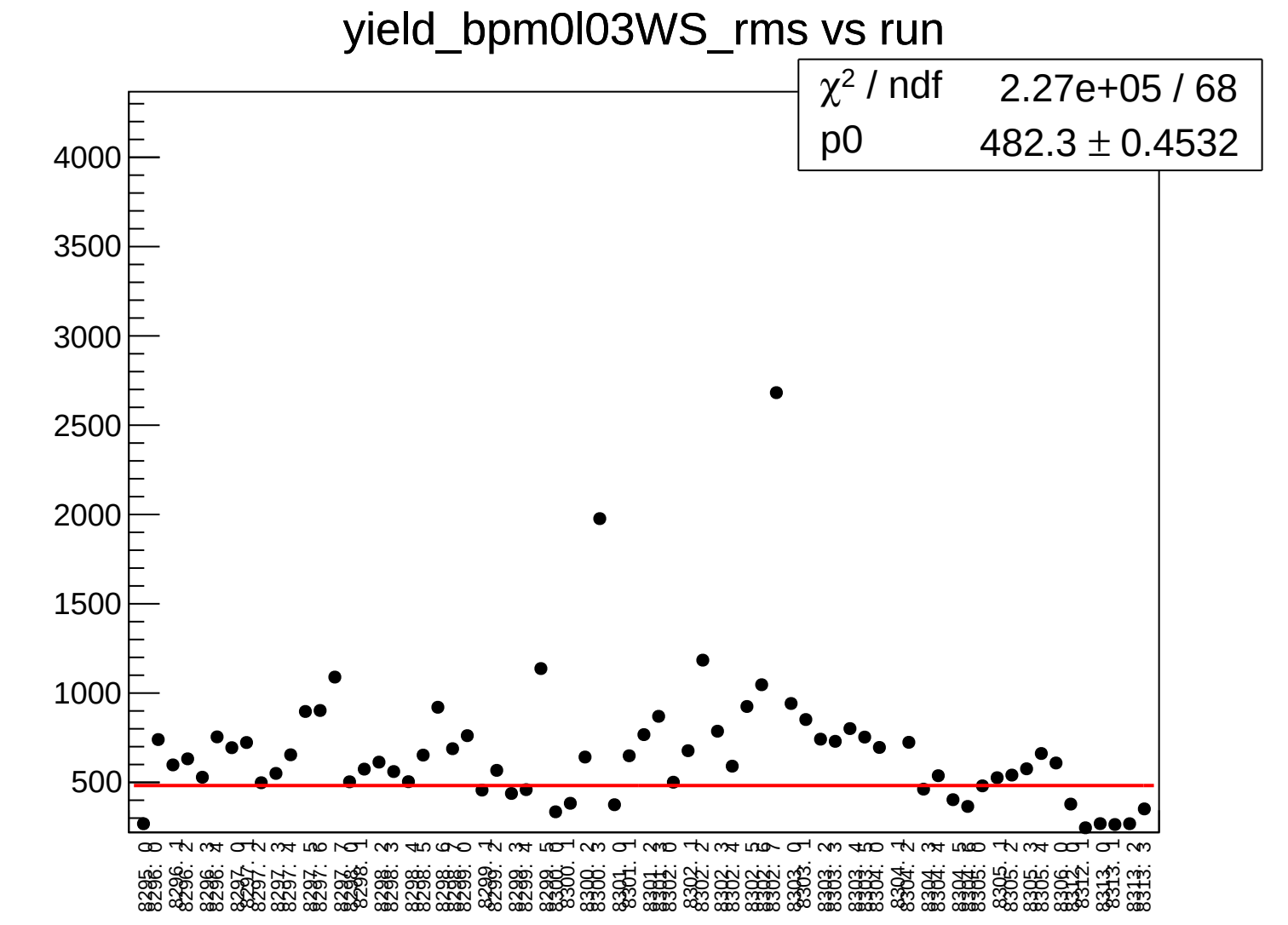

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.007e+06 / 68
p0 1.351e+05 ± 0.4225
135.8
135.6
135.4
135.2
135
134.8
134.6
134.4
134.2
pull
Entries 69
Mean 1421
Std Dev 1398
200
150
100
50
0
−50
−100
−150
−200
−250

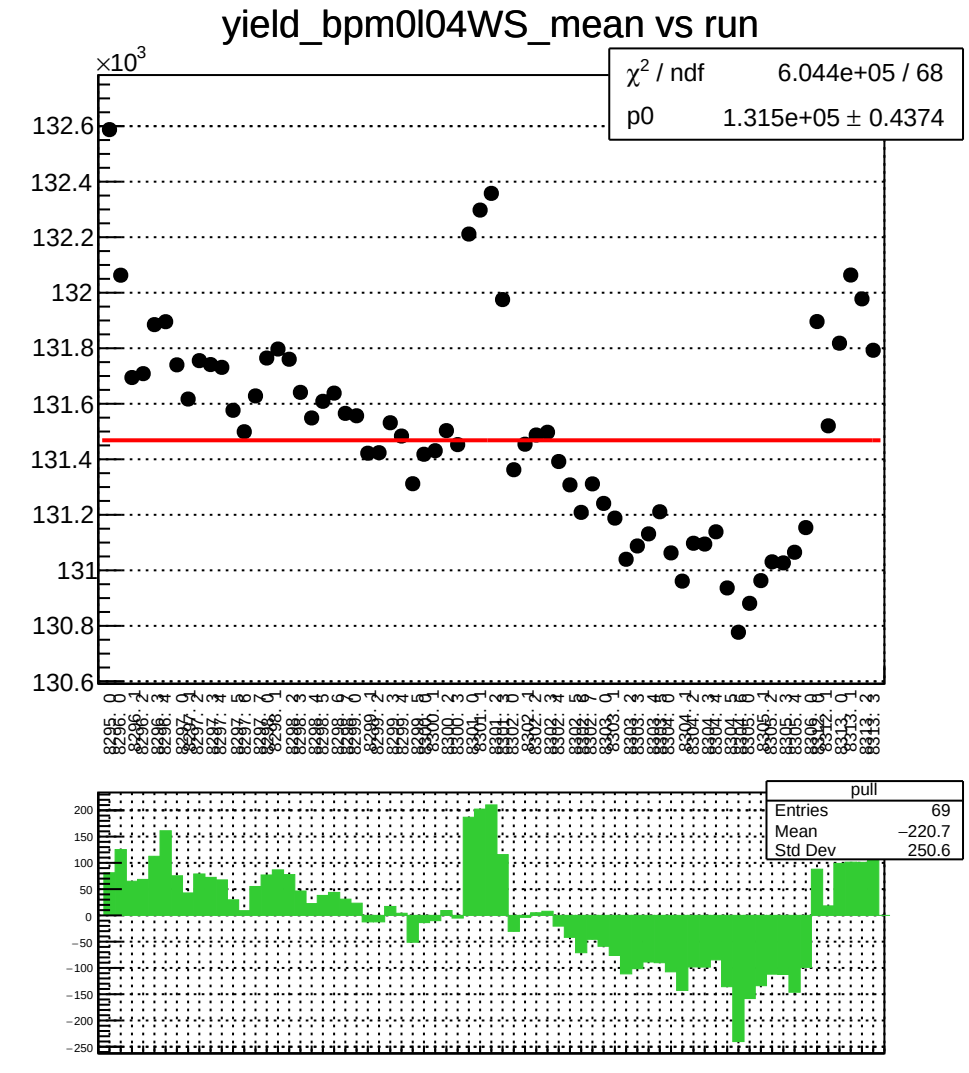

pull1D
Entries 69
Mean 1.534
Std Dev 2.664
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

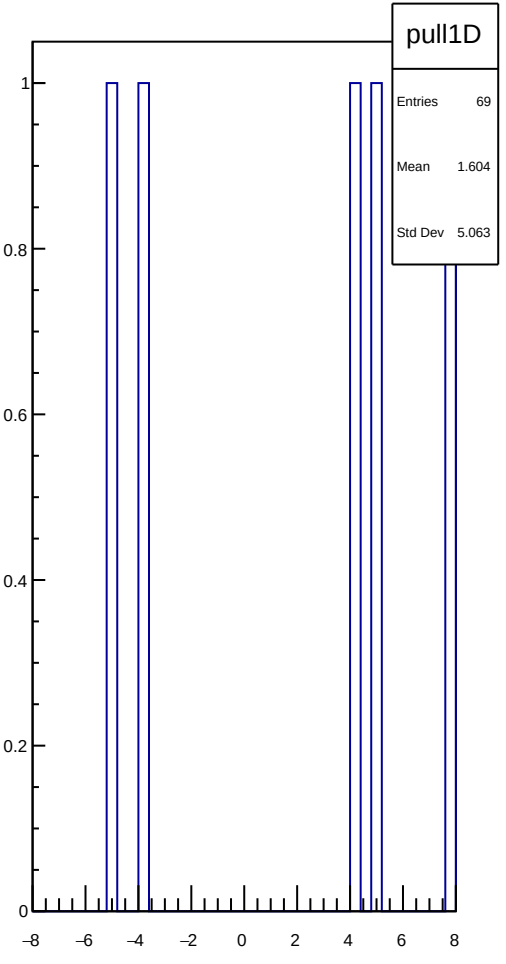

yield_bpm0l02WS_rms vs run
χ² / ndf 2476 / 68
p0 348 ± 0.2987
380
370
360
350
340
330
320
310
300

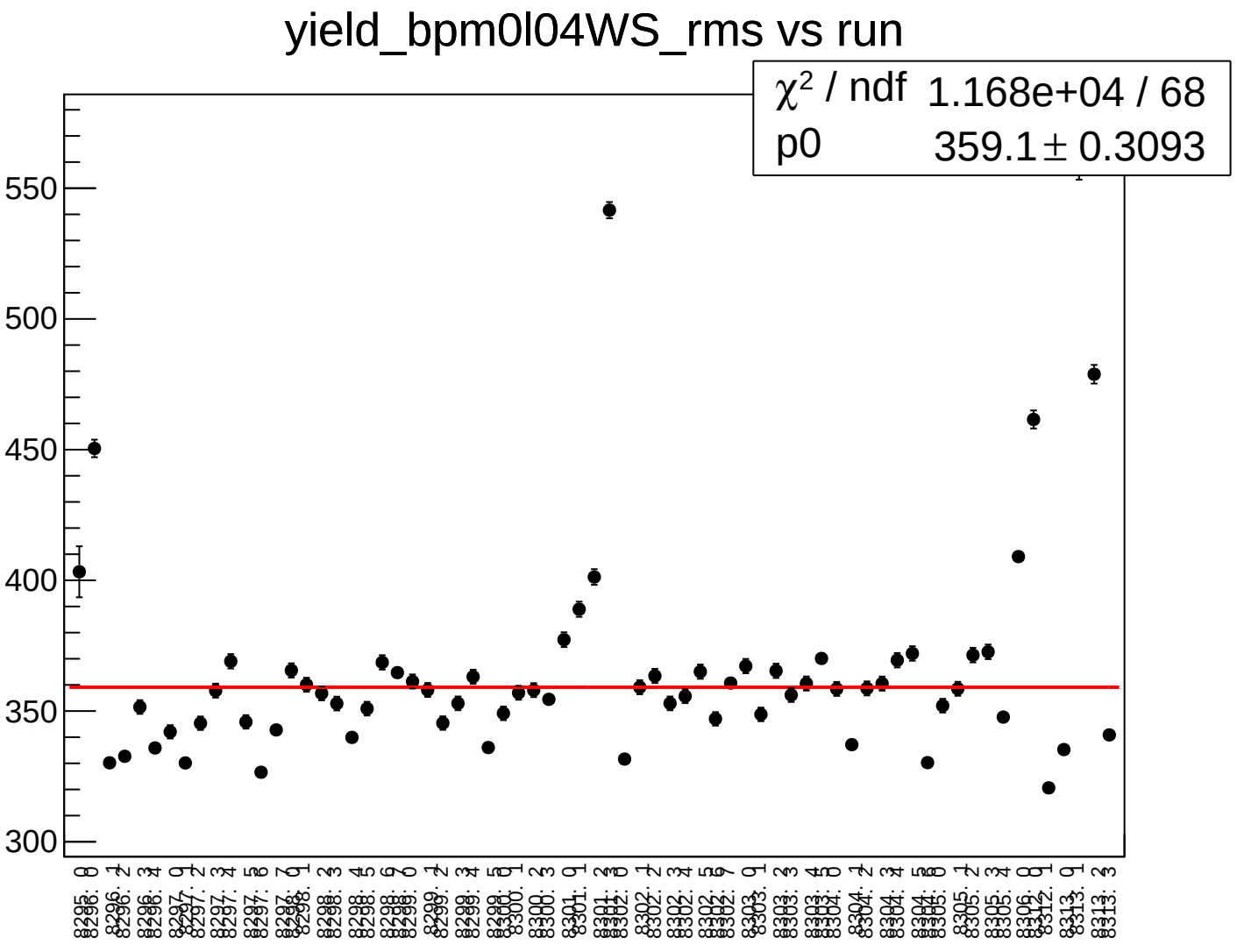

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.967e+05 / 68
p0 1.278e+05 ± 0.6409
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
pull
Entries 69
Mean 50.24
Std Dev 16.23
100
50
0
−50
−100
−150

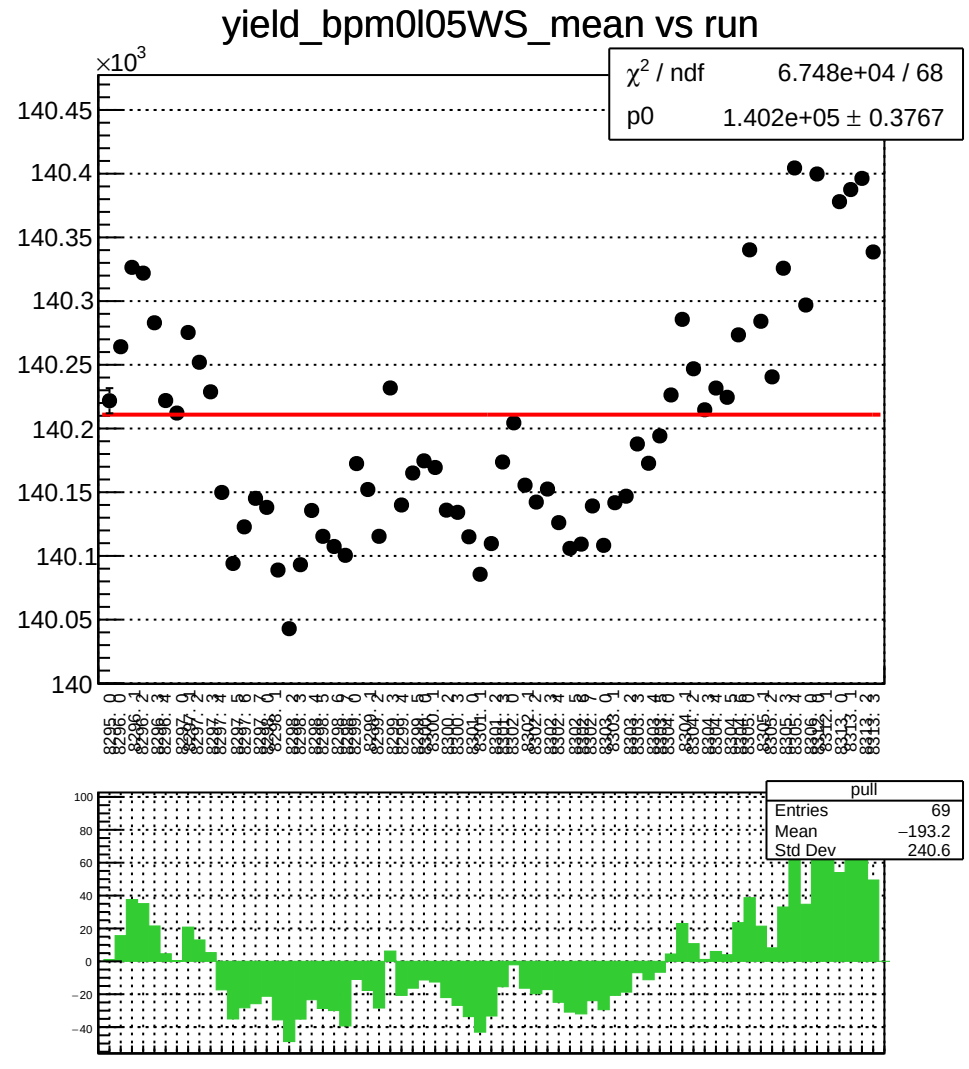

pull1D
Entries 69
Mean −0.9314
Std Dev 3.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

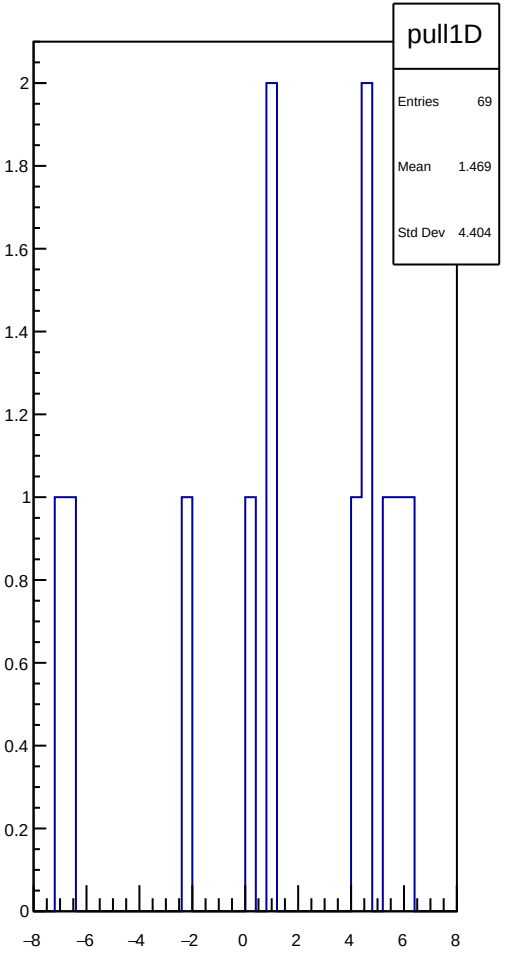

yield_bpm0l03WS_rms vs run
χ² / ndf 2.27e+05 / 68
p0 482.3 ± 0.4532
4000
3500
3000
2500
2000
1500
1000
500

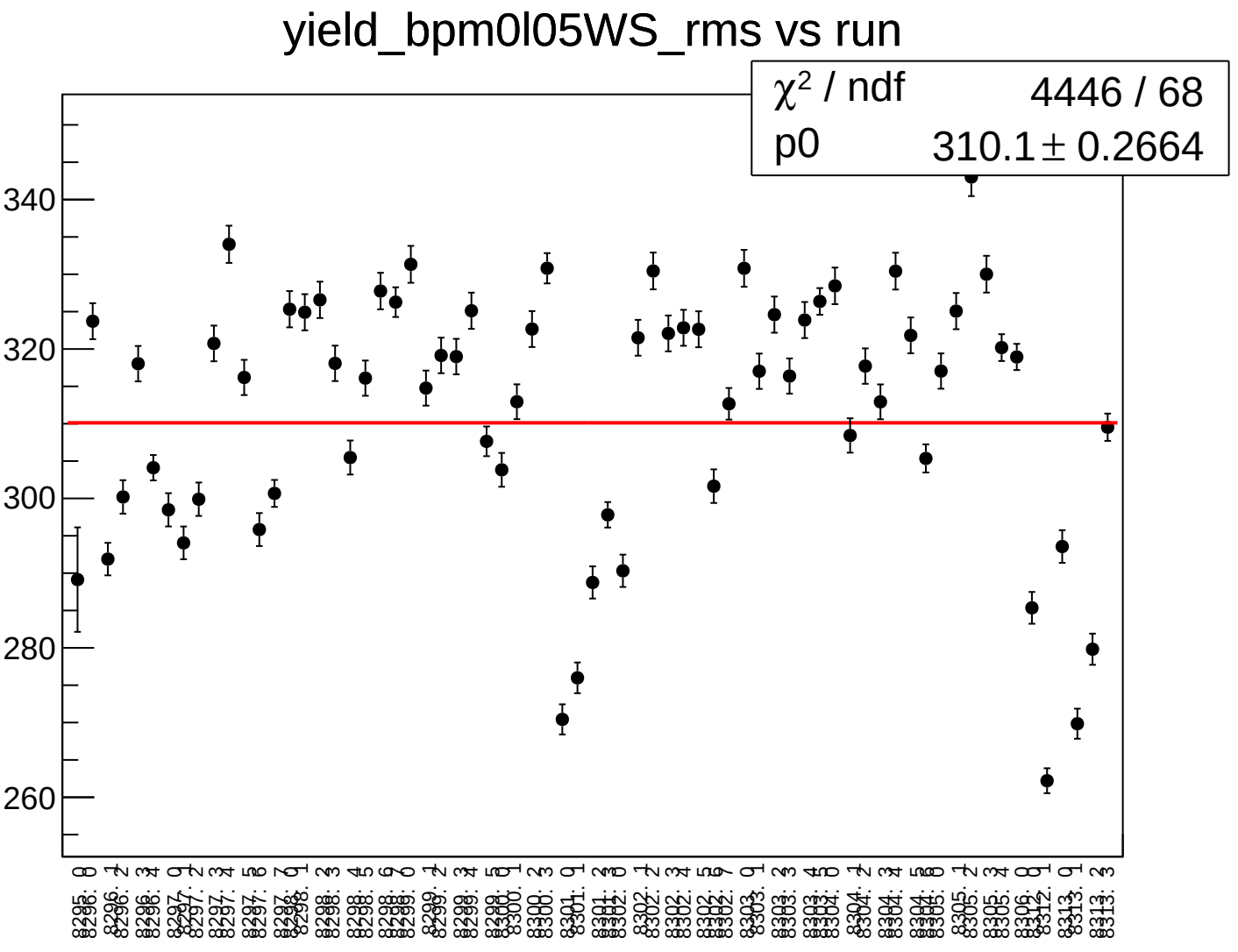

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 6.044e+05 / 68
p0 1.315e+05 ± 0.4374
132.6
132.4
132.2
132
131.8
131.6
131.4
131.2
131
130.8
130.6
pull
Entries 69
Mean −220.7
Std Dev 250.6
200
150
100
50
0
−50
−100
−150
−200
−250

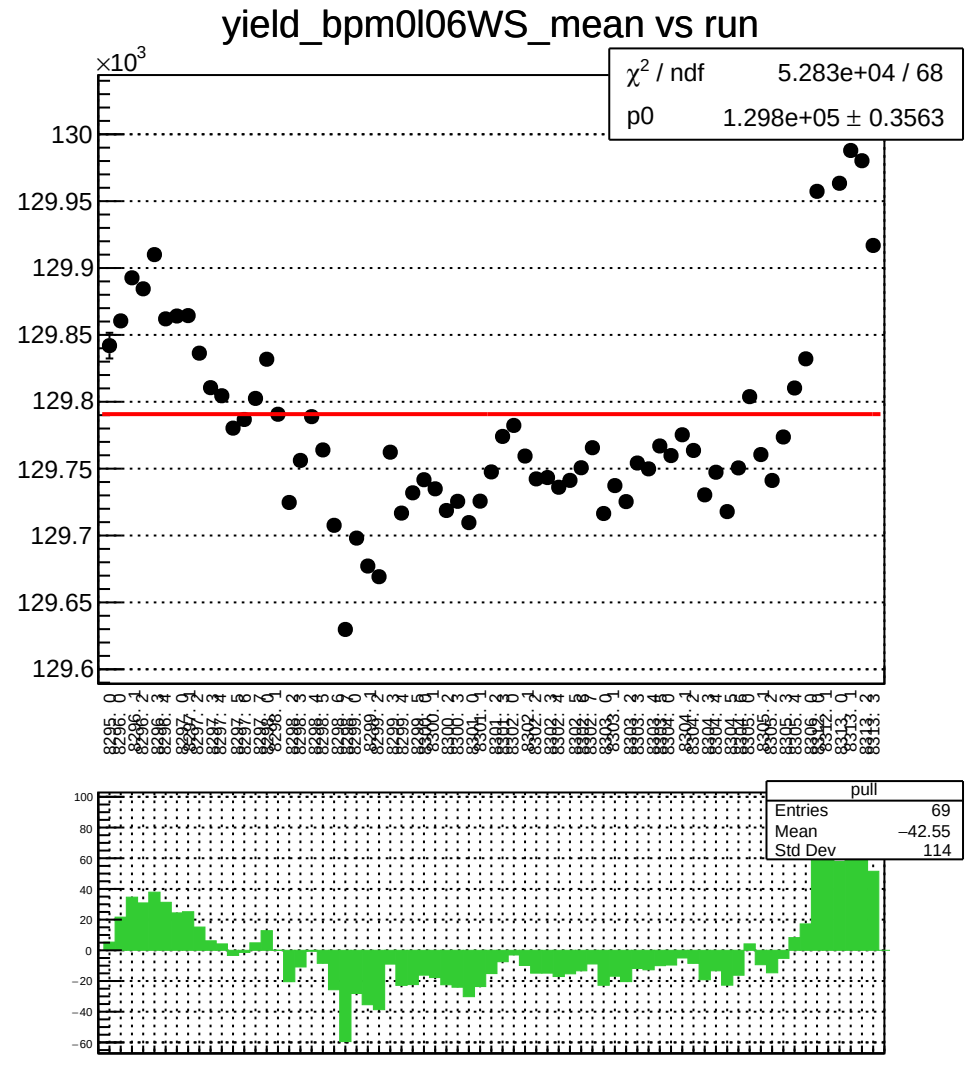

pull1D
Entries 69
Mean 1.604
Std Dev 5.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

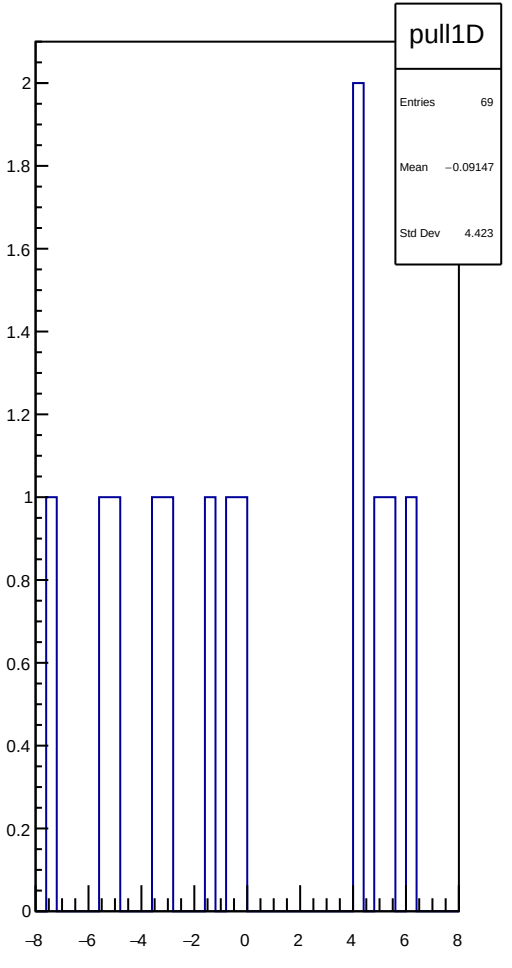

yield_bpm0l04WS_rms vs run
χ² / ndf 1.168e+04 / 68
p0 359.1 ± 0.3093
550
500
450
400
350
300

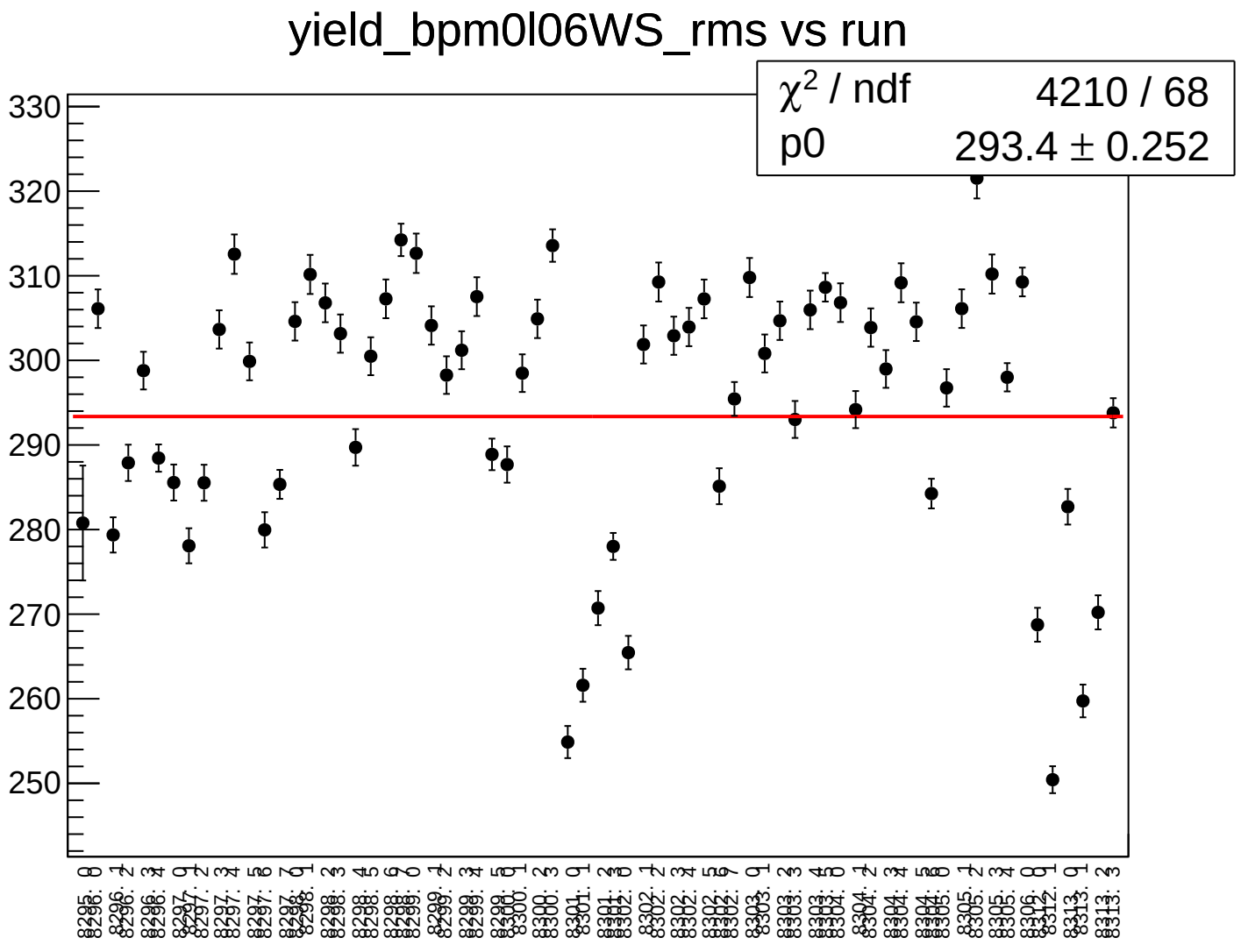

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 6.748e+04 / 68
p0 1.402e+05 ± 0.3767
140.45
140.4
140.35
140.3
140.25
140.2
140.15
140.1
140.05
140
pull
Entries 69
Mean −193.2
Std Dev 240.6
100
80
60
40
20
0
−20
−40

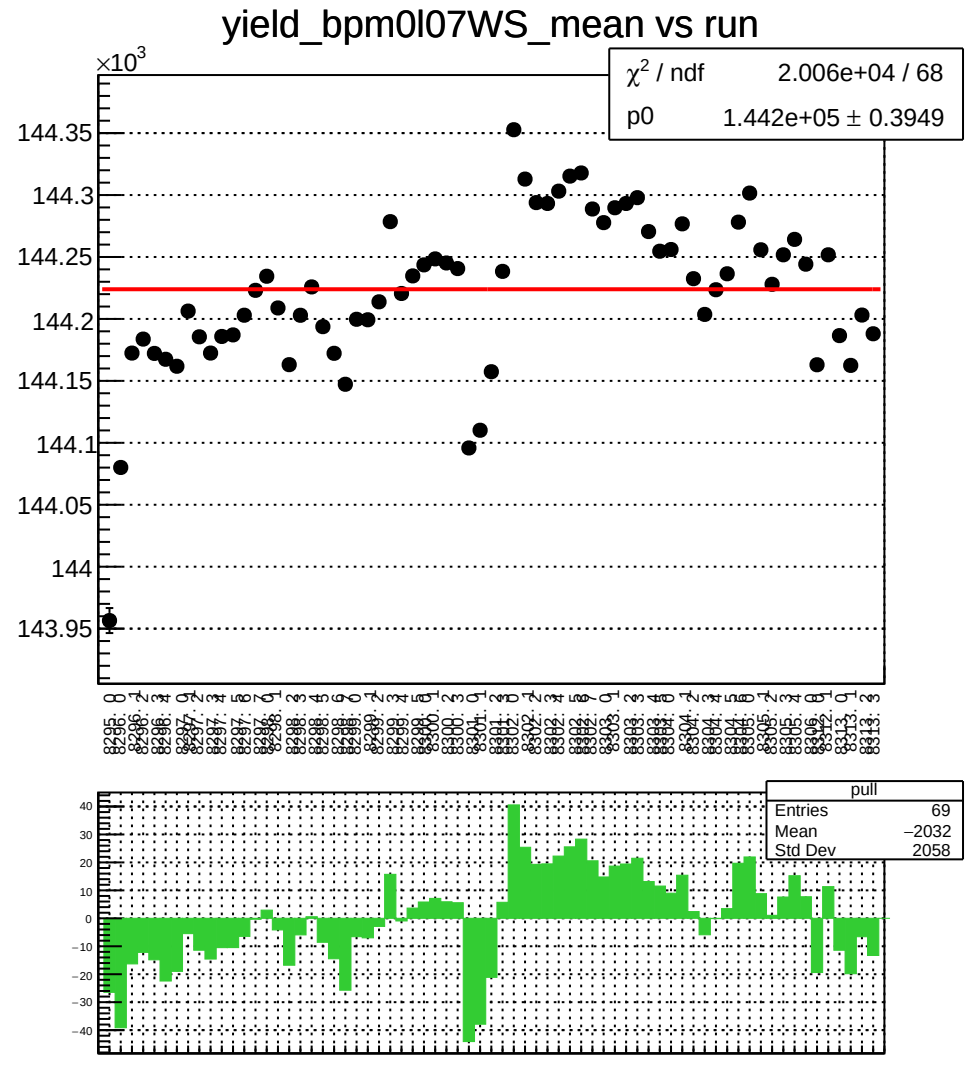

pull1D
Entries 69
Mean 1.469
Std Dev 4.404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

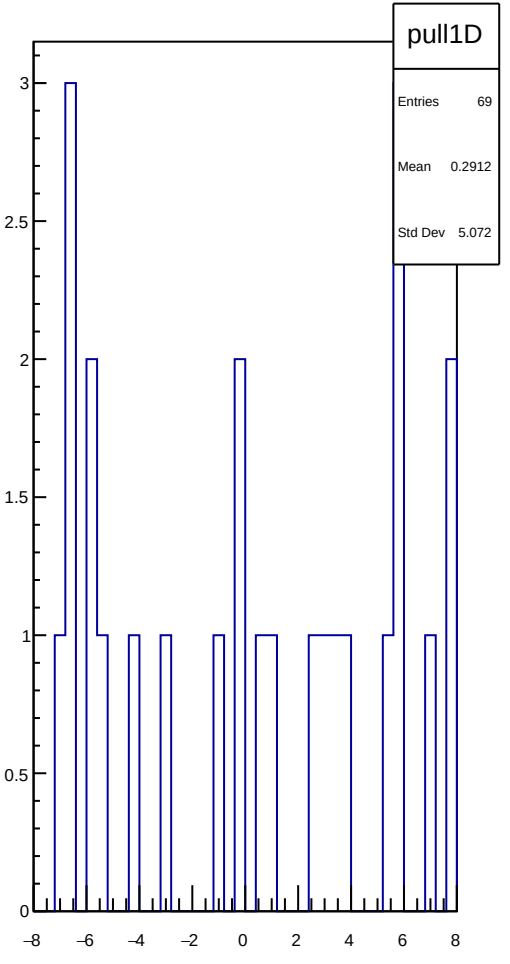

yield_bpm0l05WS_rms vs run
χ² / ndf 4446 / 68
p0 310.1 ± 0.2664
340
320
300
280
260

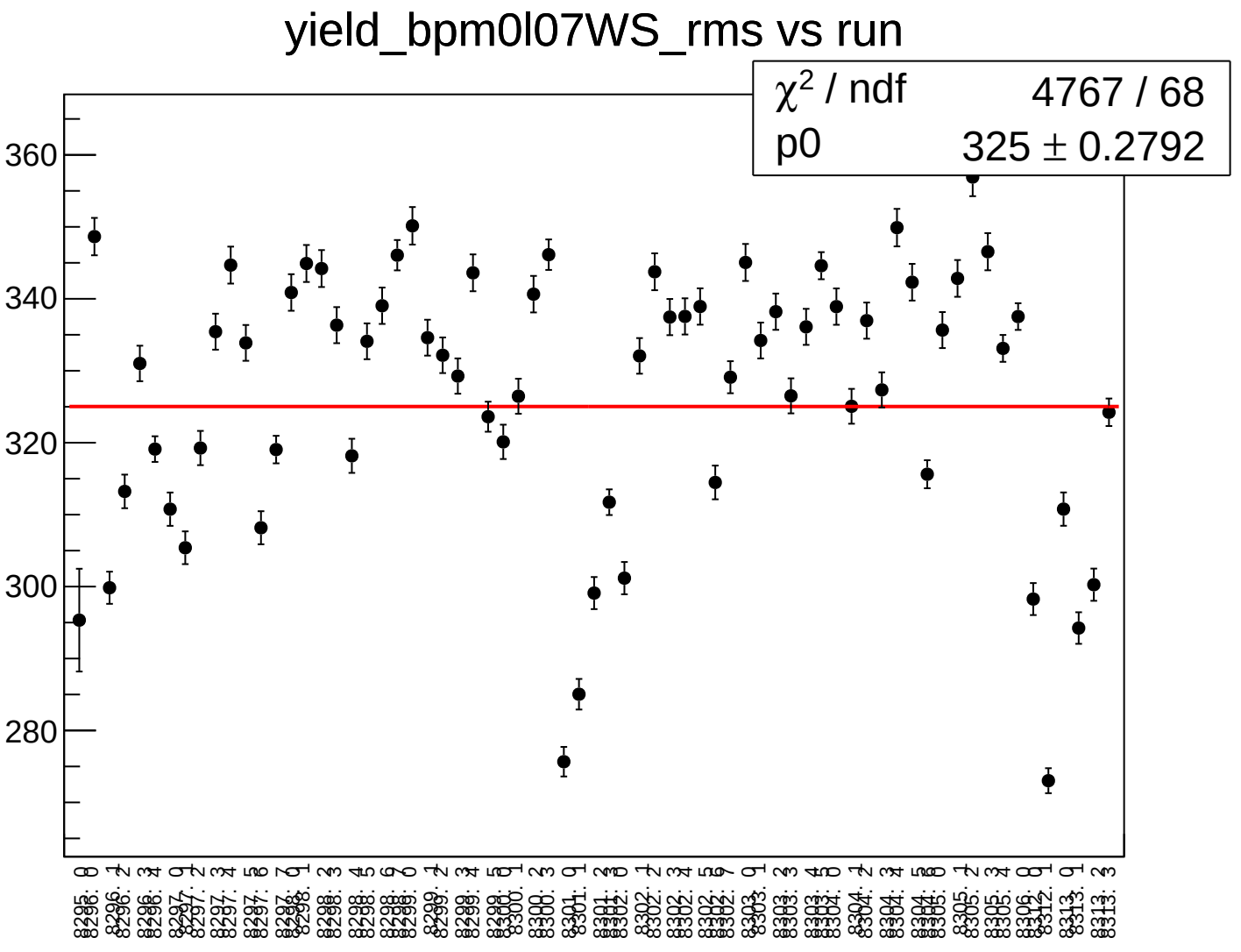

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 5.283e+04 / 68
p0 1.298e+05 ± 0.3563
130
129.95
129.9
129.85
129.8
129.75
129.7
129.65
129.6
pull
Entries 69
Mean −42.55
Std Dev 114
100
80
60
40
20
0
−20
−40
−60

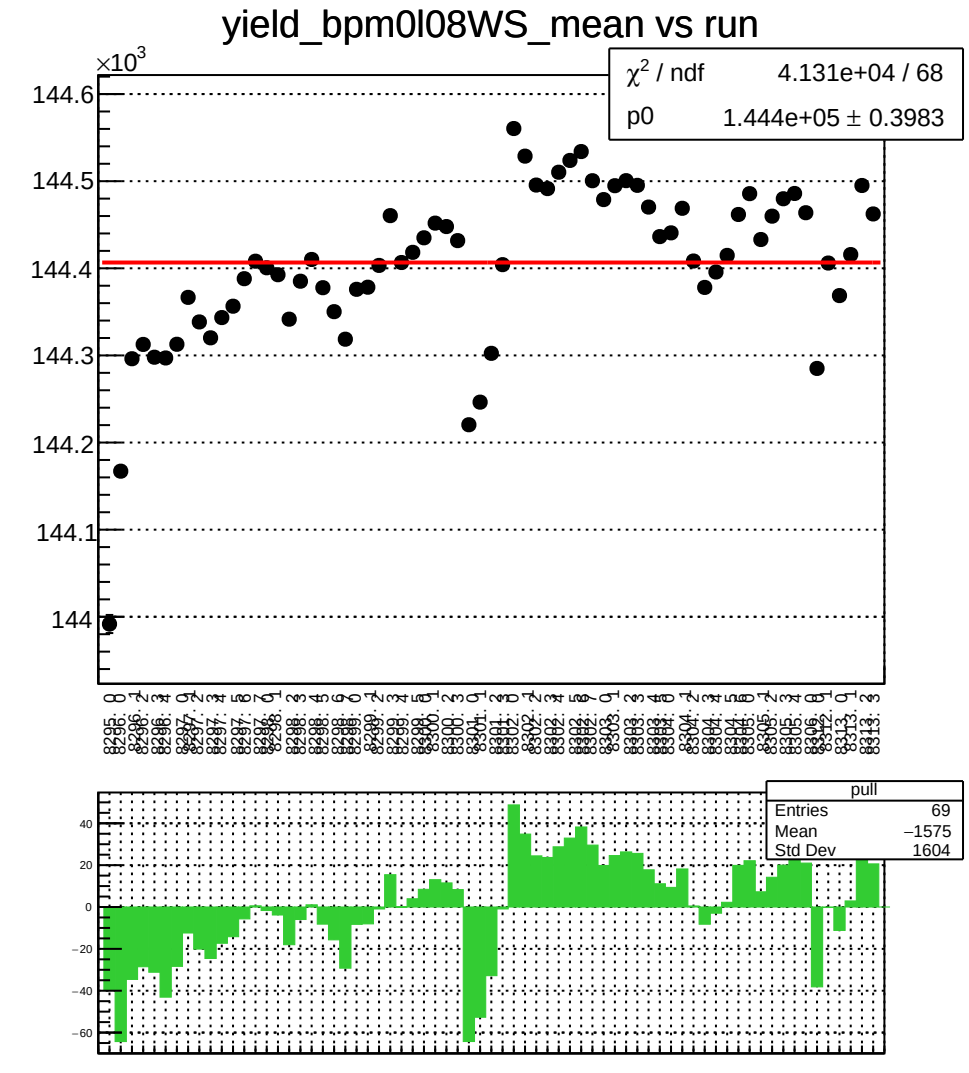

pull1D
Entries 69
Mean −0.09147
Std Dev 4.423
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

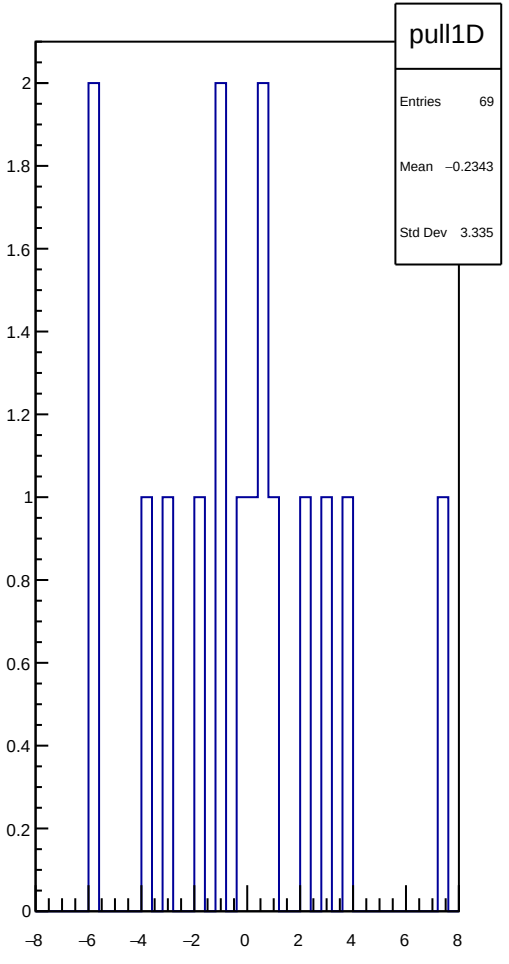

yield_bpm0l06WS_rms vs run
χ² / ndf 4210 / 68
p0 293.4 ± 0.252
330
320
310
300
290
280
270
260
250

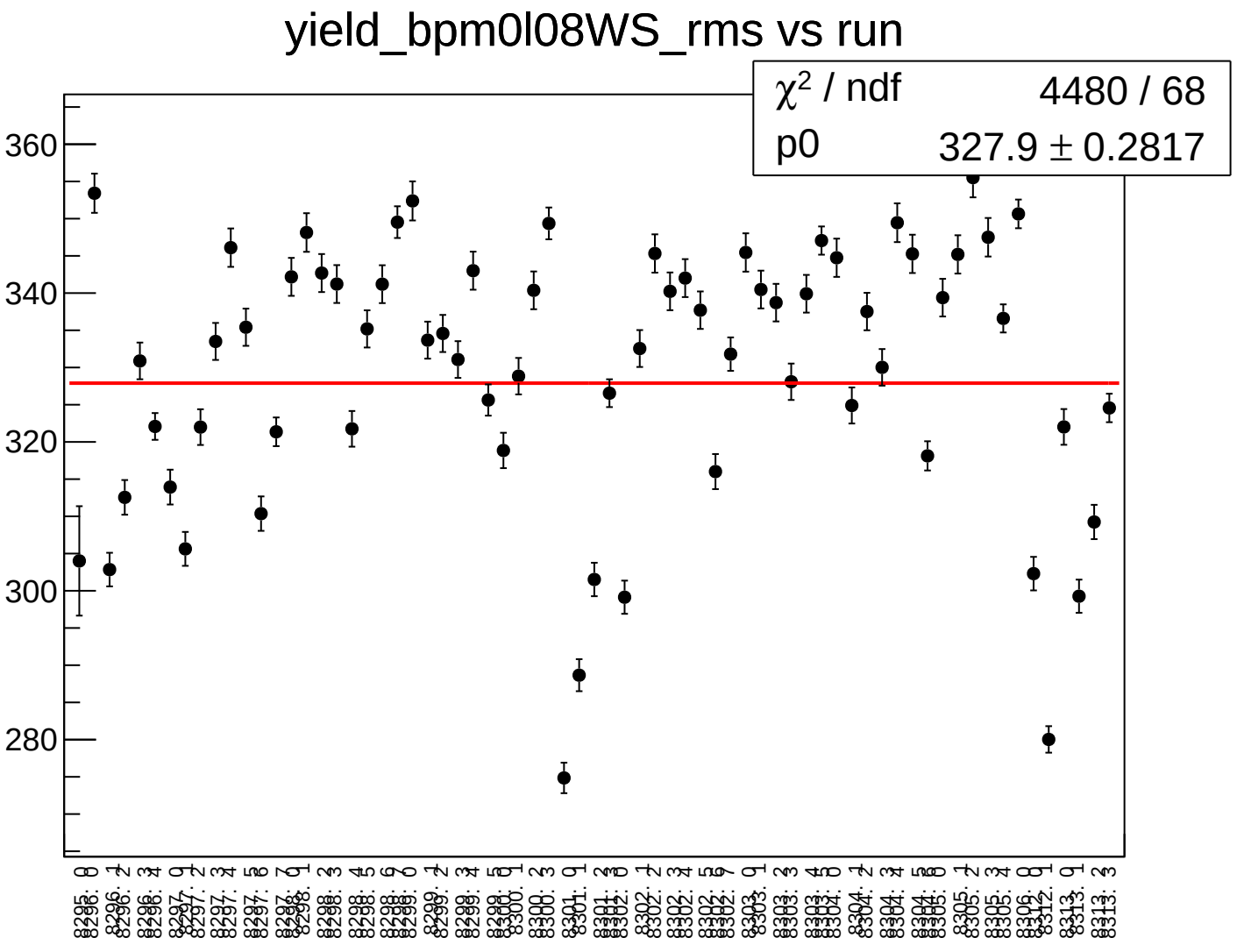

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.006e+04 / 68
p0 1.442e+05 ± 0.3949
144.35
144.3
144.25
144.2
144.15
144.1
144.05
144
143.95
pull
Entries 69
Mean −2032
Std Dev 2058
40
30
20
10
0
−10
−20
−30
−40

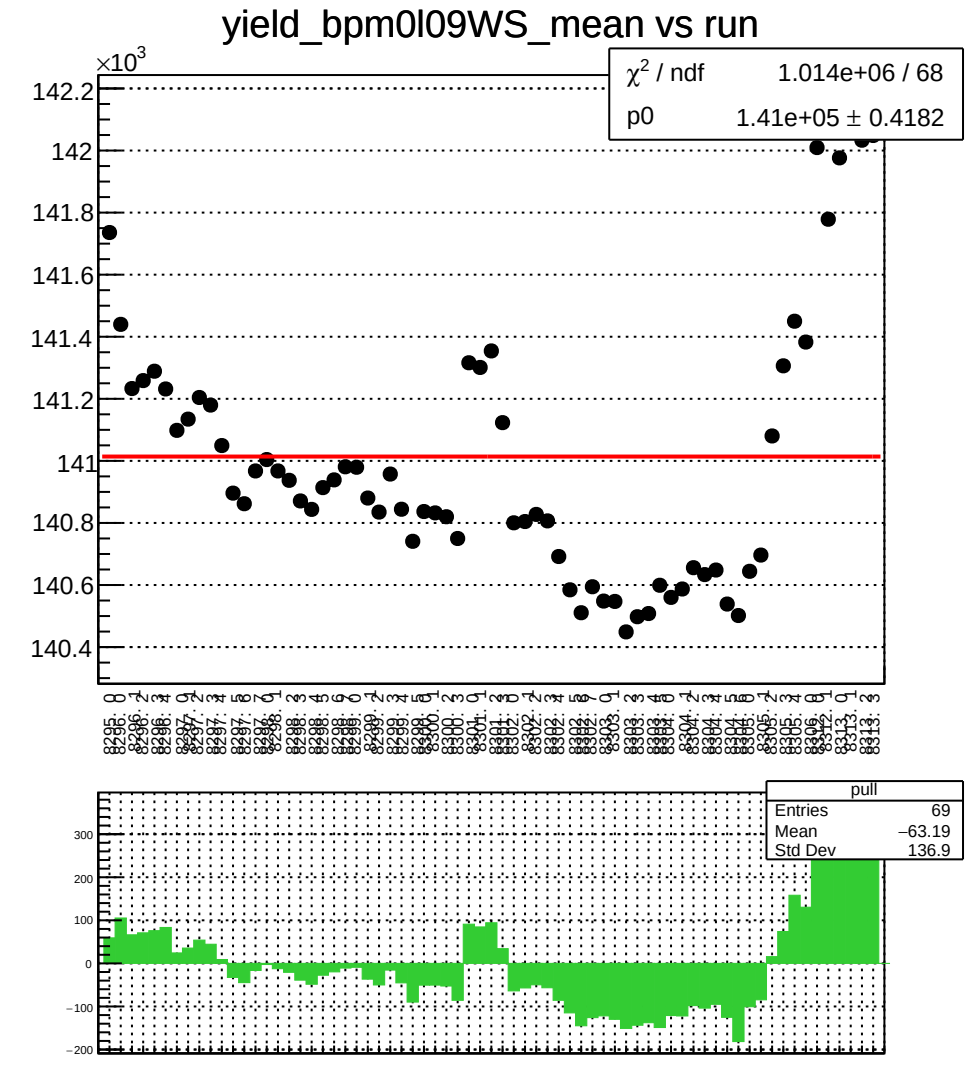

pull1D
Entries 69
Mean 0.2912
Std Dev 5.072
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

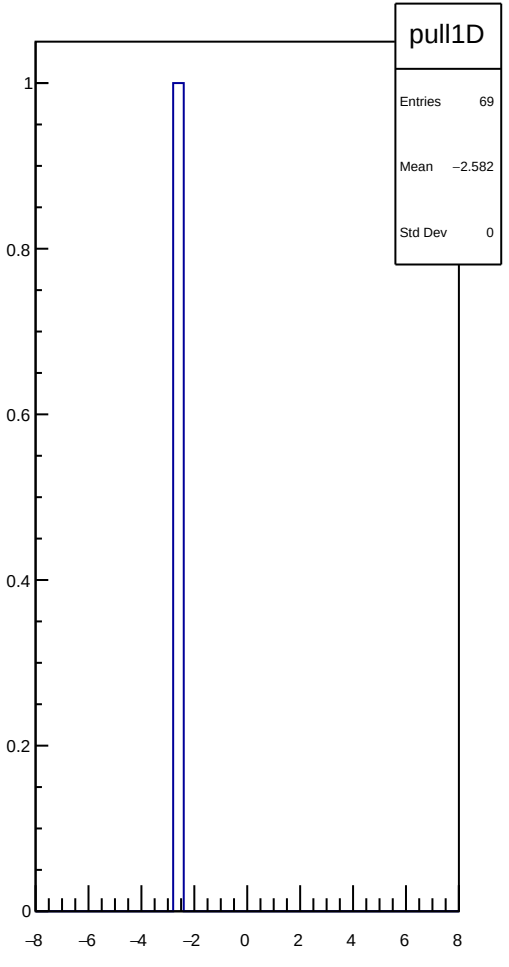

yield_bpm0l07WS_rms vs run
χ² / ndf 4767 / 68
p0 325 ± 0.2792
360
340
320
300
280

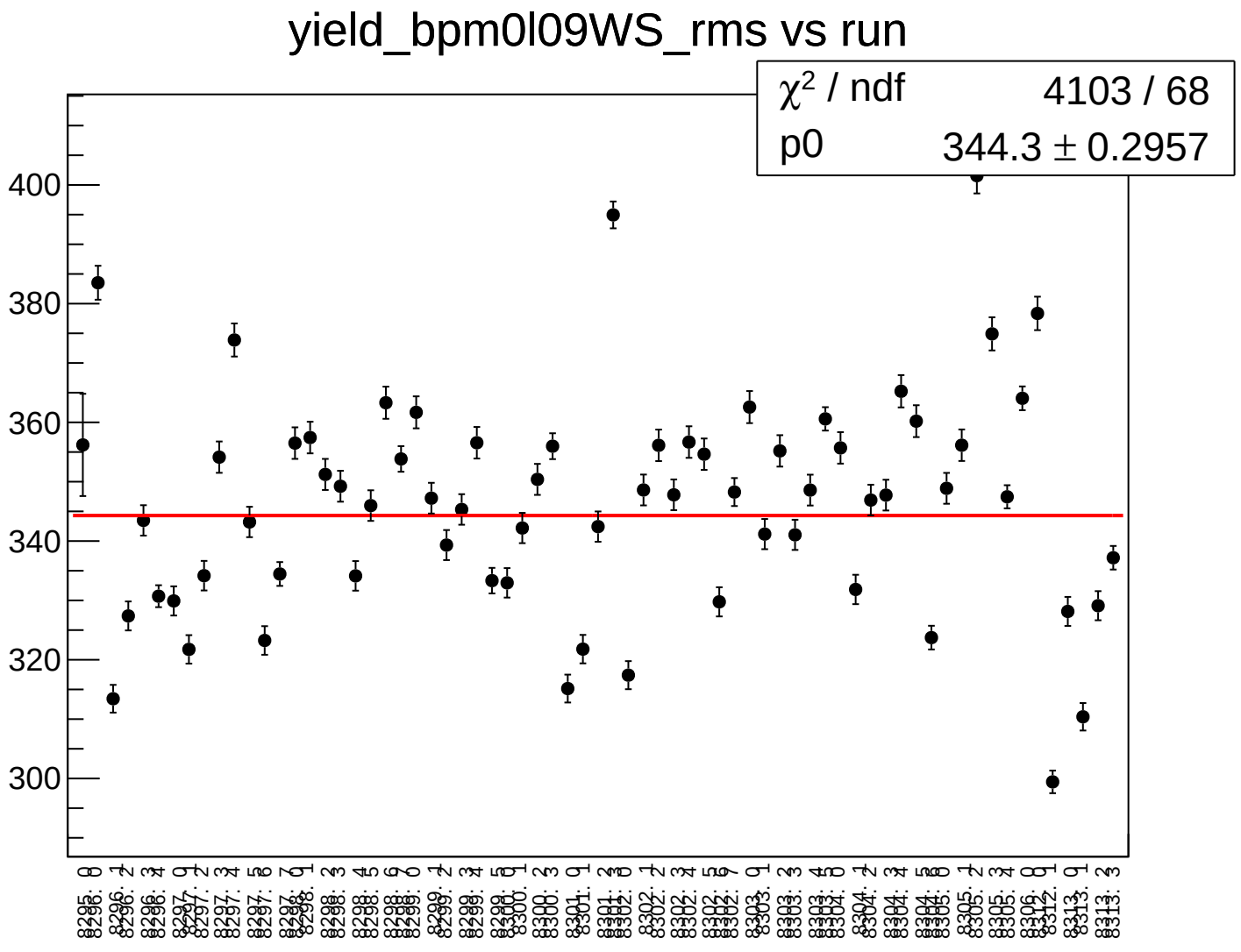

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.131e+04 / 68
p0 1.444e+05 ± 0.3983
144.6
144.5
144.4
144.3
144.2
144.1
144
pull
Entries 69
Mean −1575
Std Dev 1604
40
20
0
−20
−40
−60

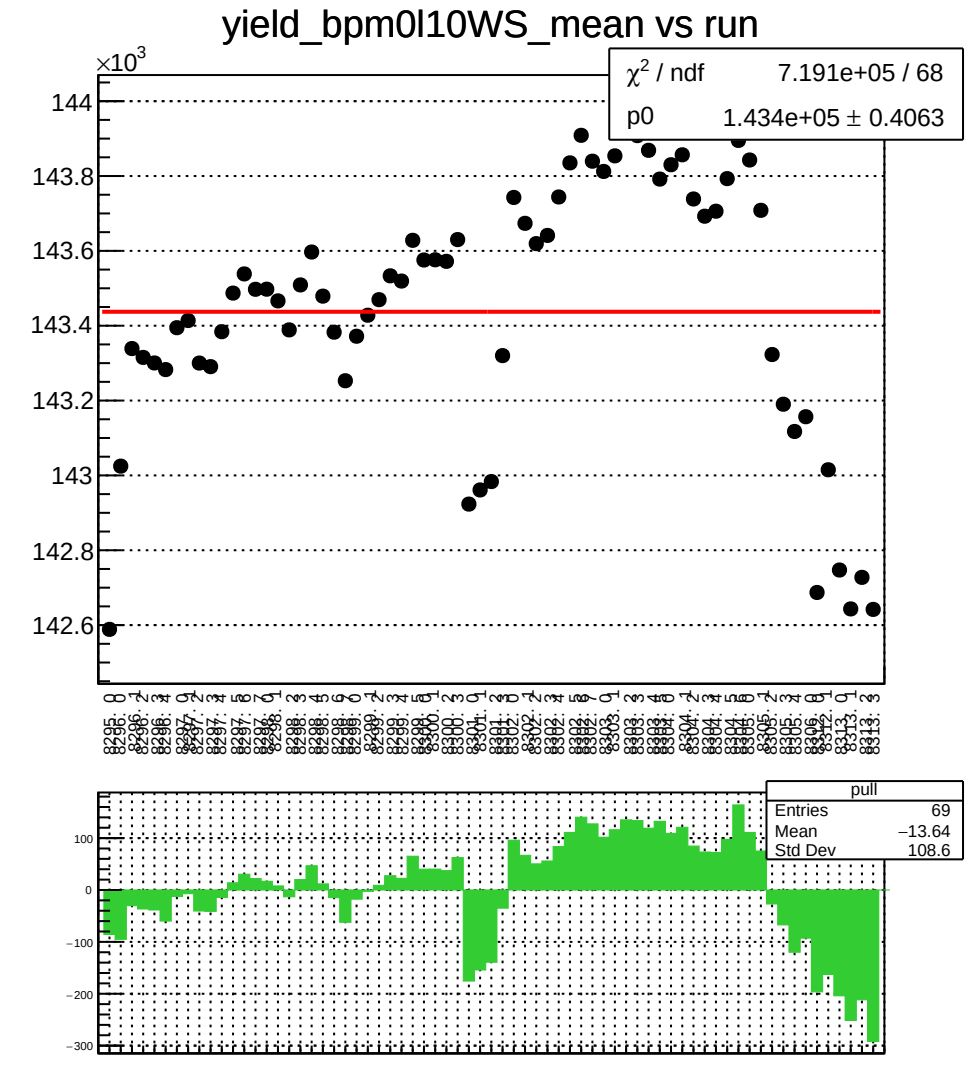

pull1D
Entries 69
Mean −0.2343
Std Dev 3.335
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

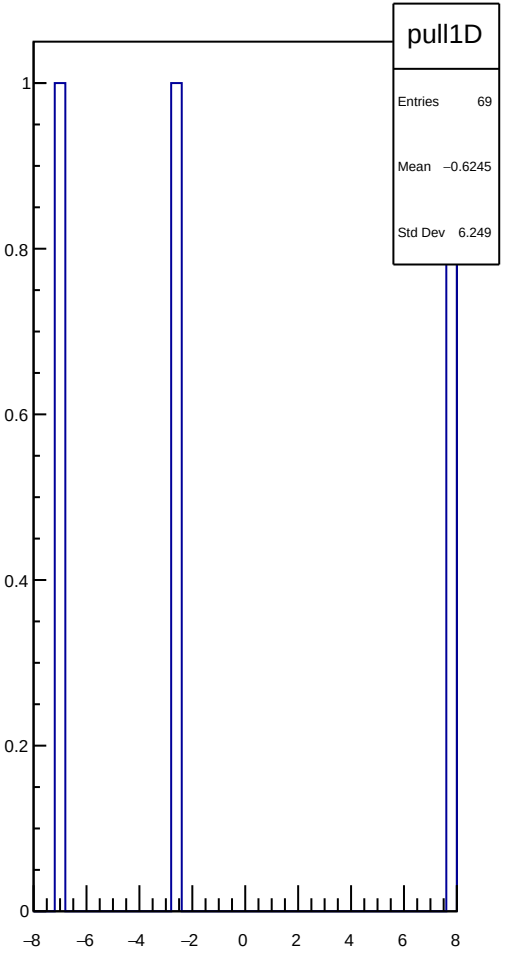

yield_bpm0l08WS_rms vs run
χ² / ndf 4480 / 68
p0 327.9 ± 0.2817
360
340
320
300
280

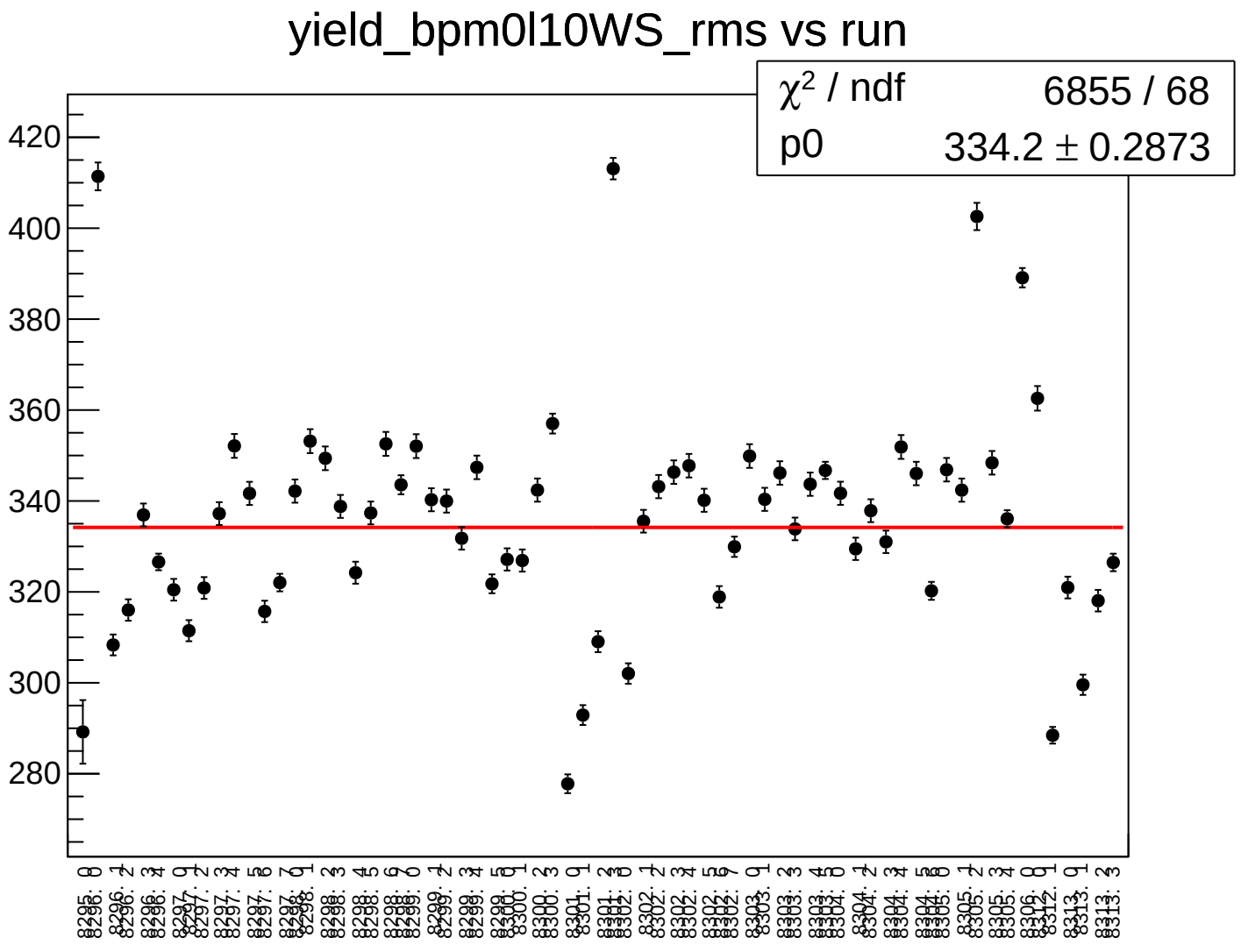

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.014e+06 / 68
p0 1.41e+05 ± 0.4182
142.2
142
141.8
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 69
Mean −63.19
Std Dev 136.9
300
200
100
0
−100
−200

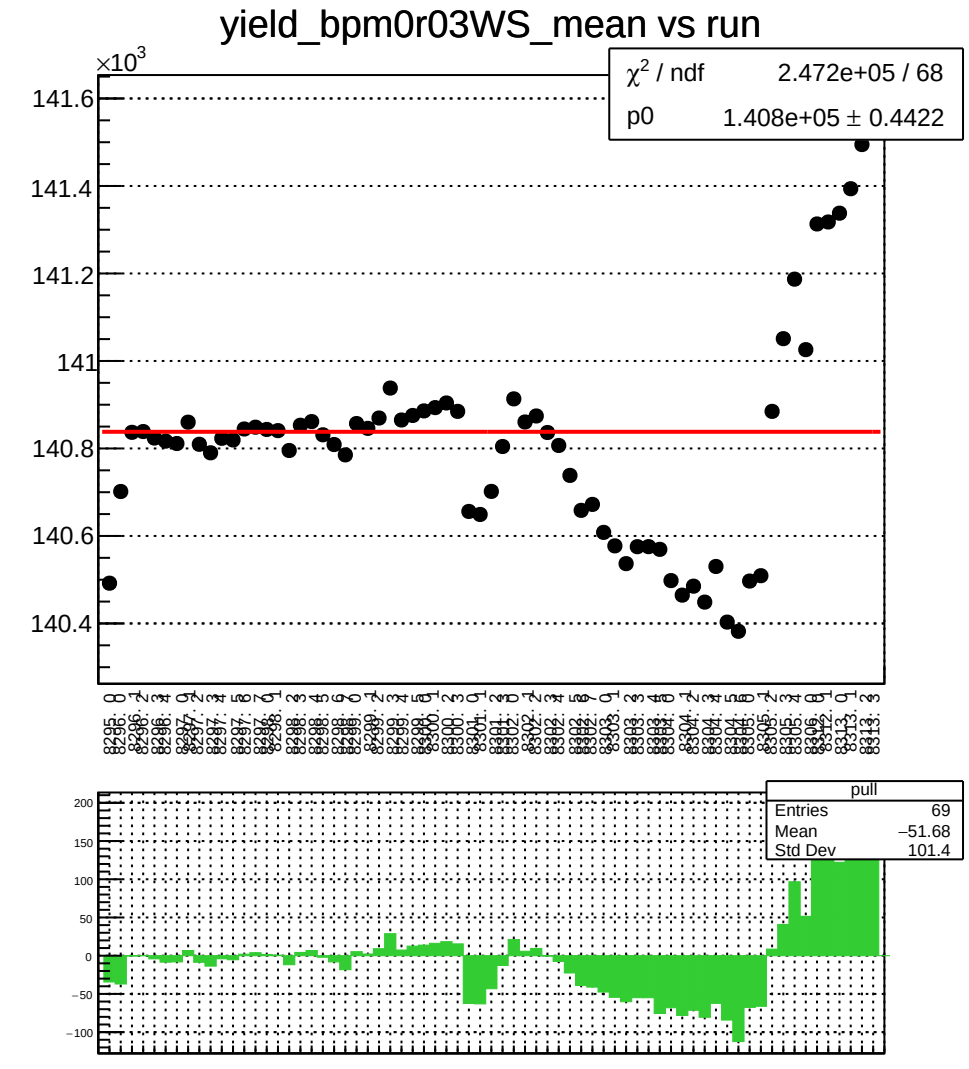

pull1D
Entries 69
Mean −2.582
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

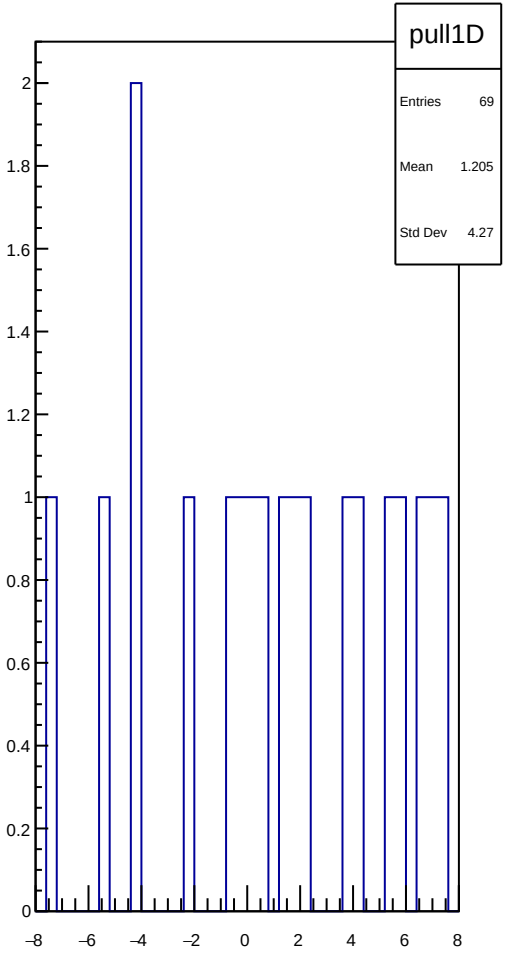

yield_bpm0l09WS_rms vs run
χ² / ndf 4103 / 68
p0 344.3 ± 0.2957
400
380
360
340
320
300

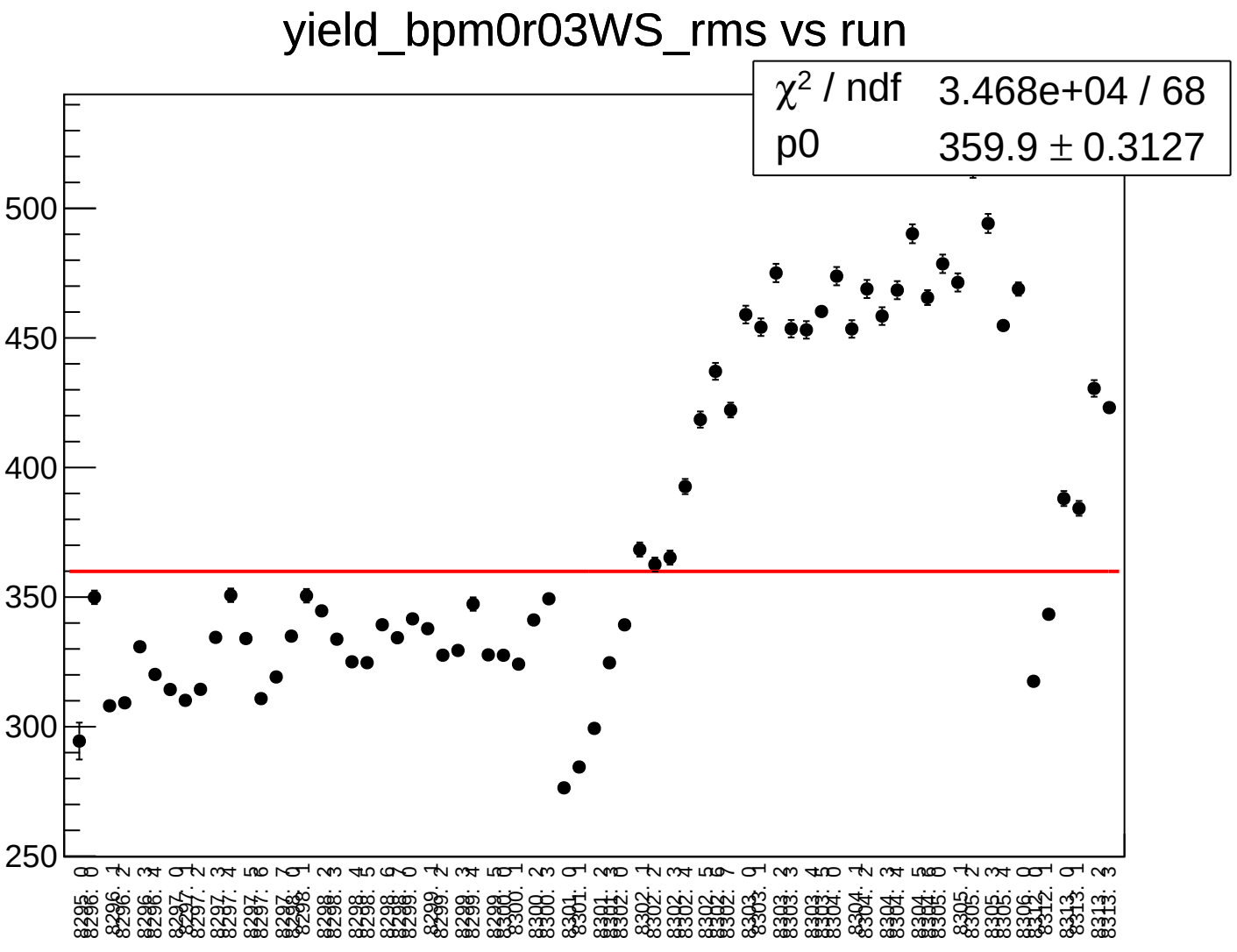

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.191e+05 / 68
p0 1.434e+05 ± 0.4063
144
143.8
143.6
143.4
143.2
143
142.8
142.6
pull
Entries 69
Mean −13.64
Std Dev 108.6
100
0
−100
−200
−300

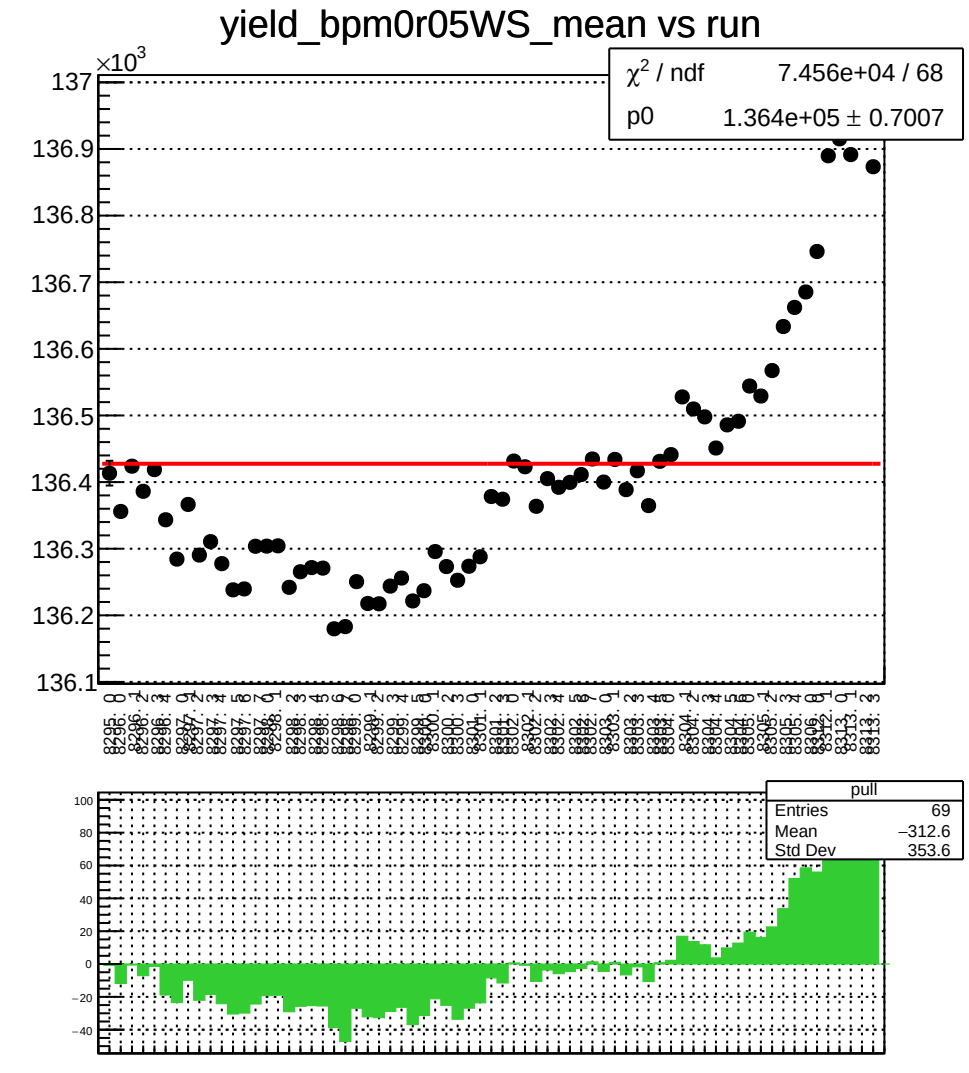

pull1D
Entries 69
Mean −0.6245
Std Dev 6.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

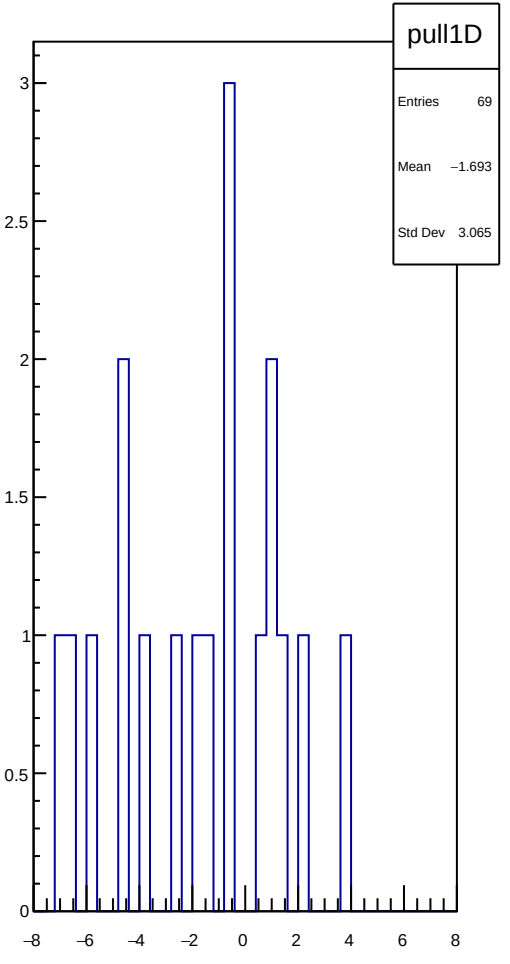

yield_bpm0l10WS_rms vs run
χ² / ndf 6855 / 68
p0 334.2 ± 0.2873
420
400
380
360
340
320
300
280

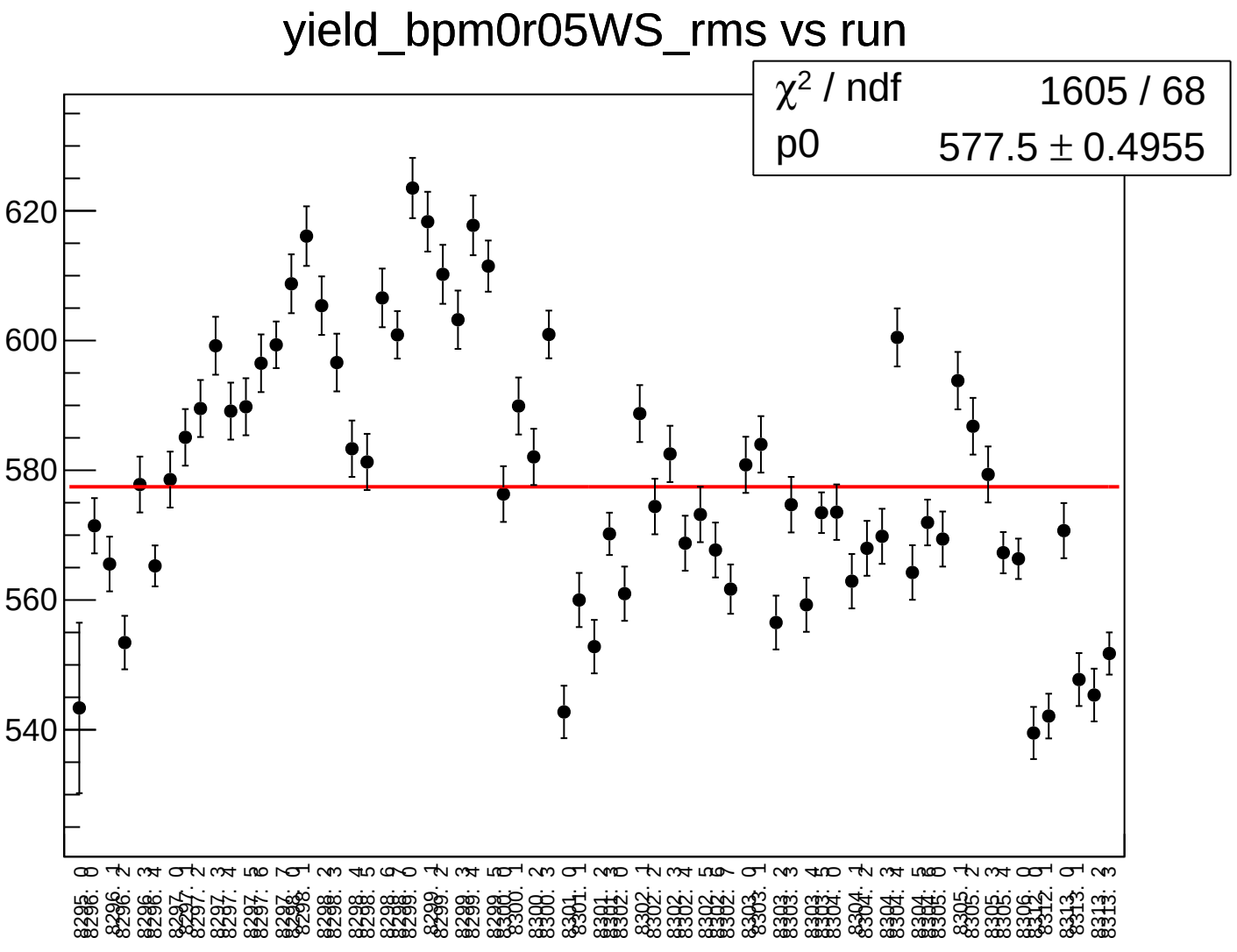

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.472e+05 / 68
p0 1.408e+05 ± 0.4422
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 69
Mean −51.68
Std Dev 101.4
200
150
100
50
0
−50
−100

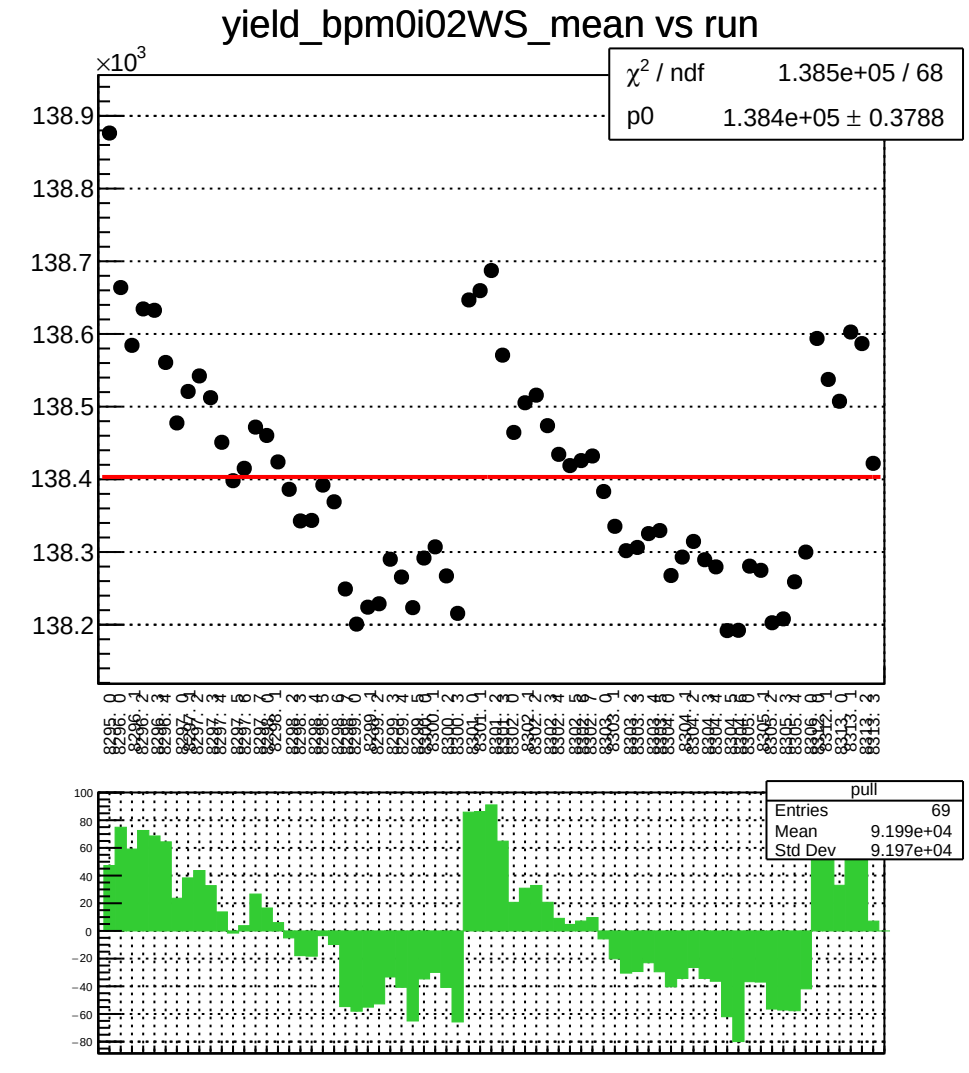

pull1D
Entries 69
Mean 1.205
Std Dev 4.27
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

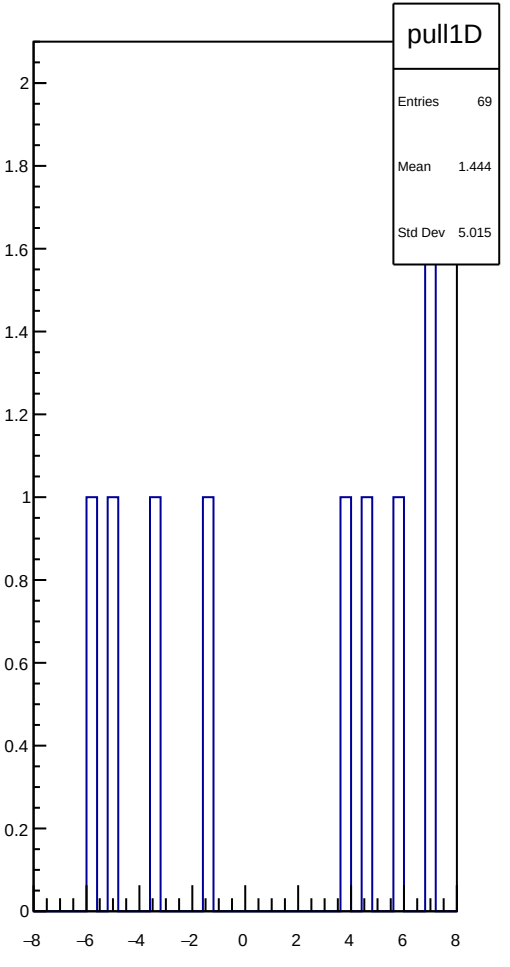

yield_bpm0r03WS_rms vs run
χ² / ndf 3.468e+04 / 68
p0 359.9 ± 0.3127
500
450
400
350
300
250

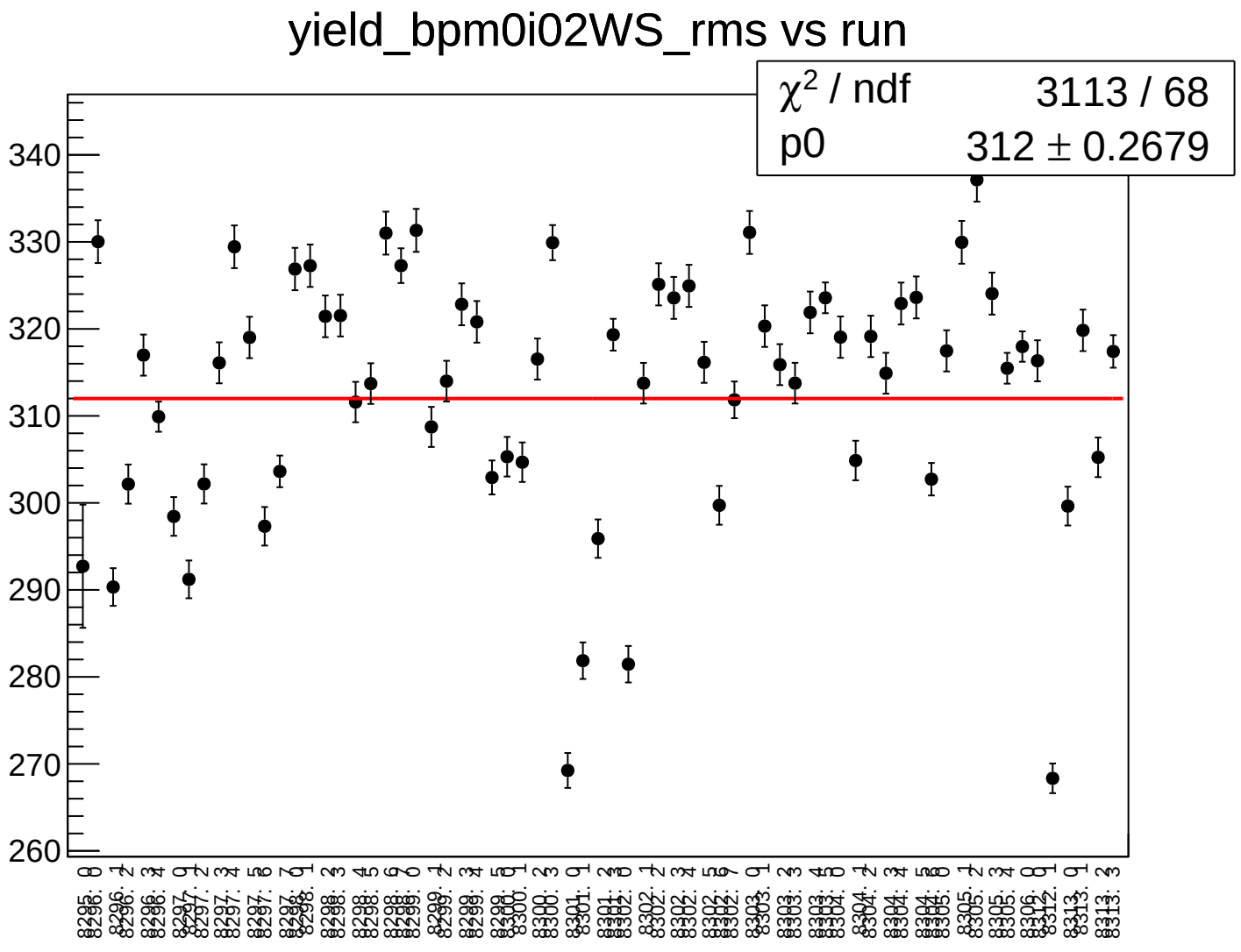

yield_bpm0r05WS_mean vs run
×10^3
137
136.9
136.8
136.7
136.6
136.5
136.4
136.3
136.2
136.1
χ² / ndf 7.456e+04 / 68
p0 1.364e+05 ± 0.7007
pull
Entries 69
Mean −312.6
Std Dev 353.6
100
80
60
40
20
0
−20
−40

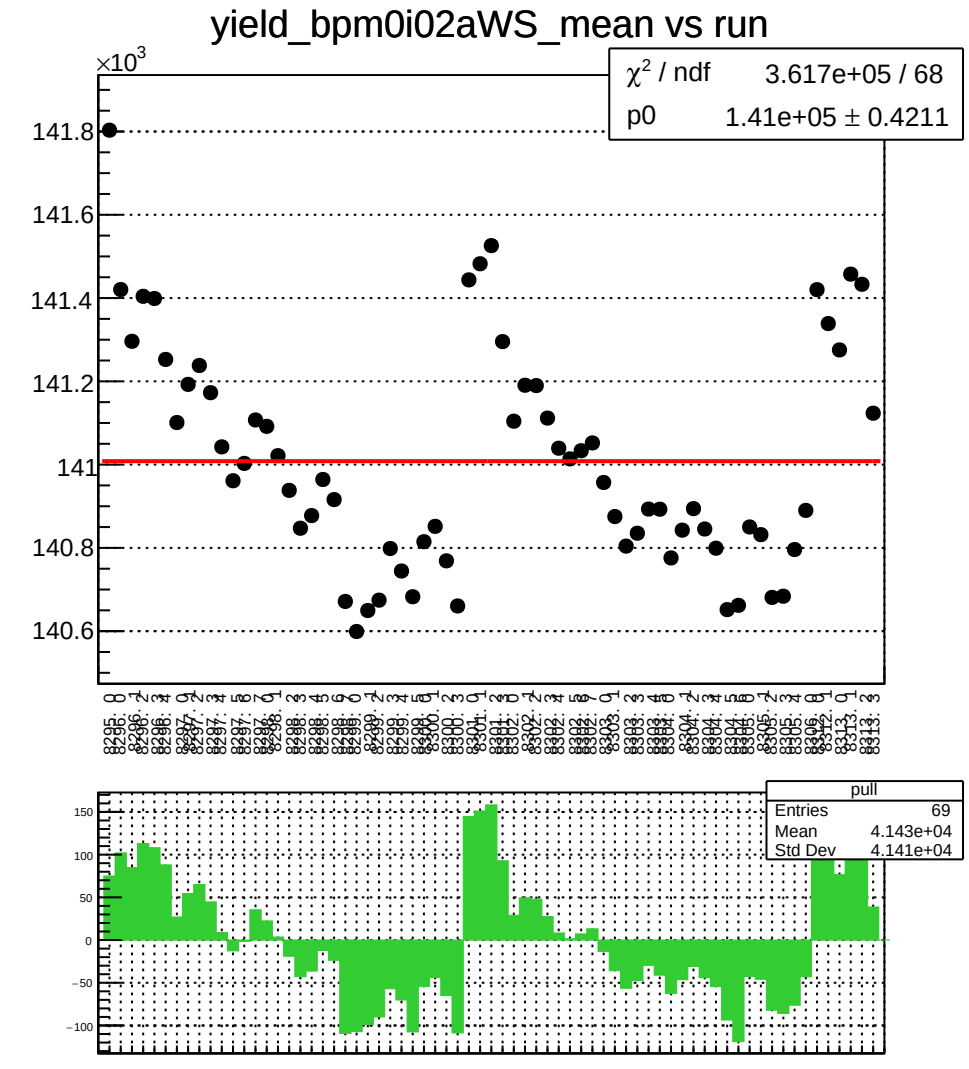

pull1D
Entries 69
Mean −1.693
Std Dev 3.065
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

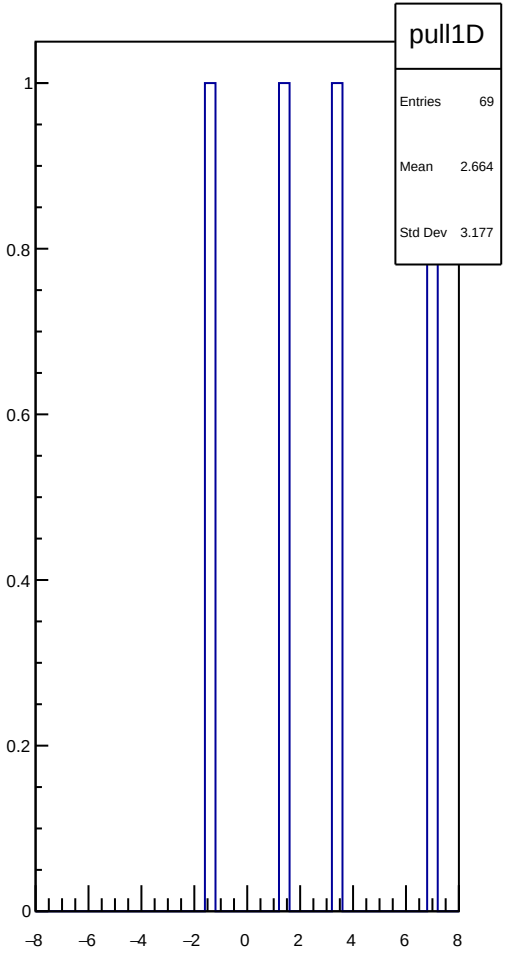

yield_bpm0r05WS_rms vs run
χ² / ndf 1605 / 68
p0 577.5 ± 0.4955
620
600
580
560
540

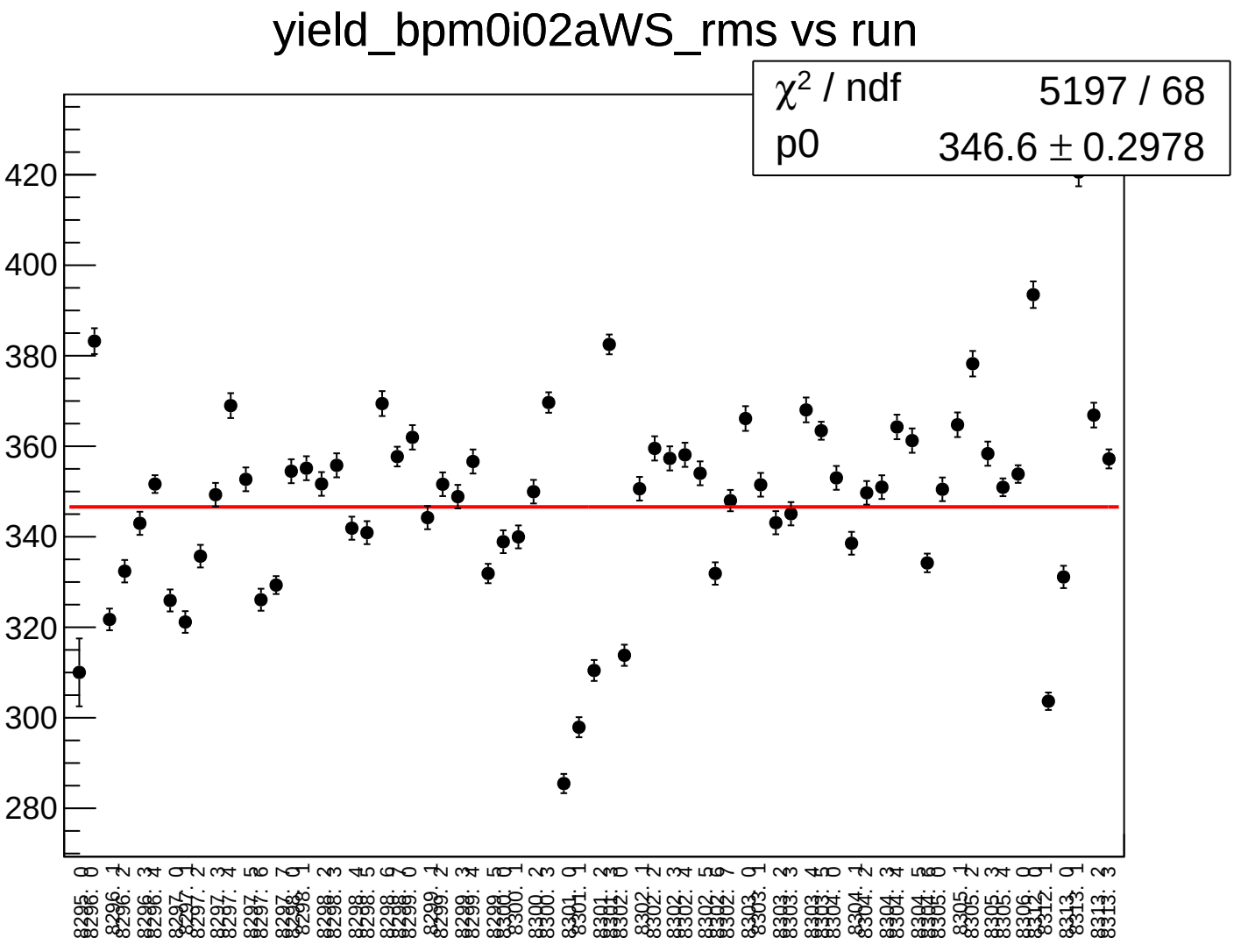

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.385e+05 / 68
p0 1.384e+05 ± 0.3788
138.9
138.8
138.7
138.6
138.5
138.4
138.3
138.2
pull
Entries 69
Mean 9.199e+04
Std Dev 9.197e+04
100
80
60
40
20
0
−20
−40
−60
−80

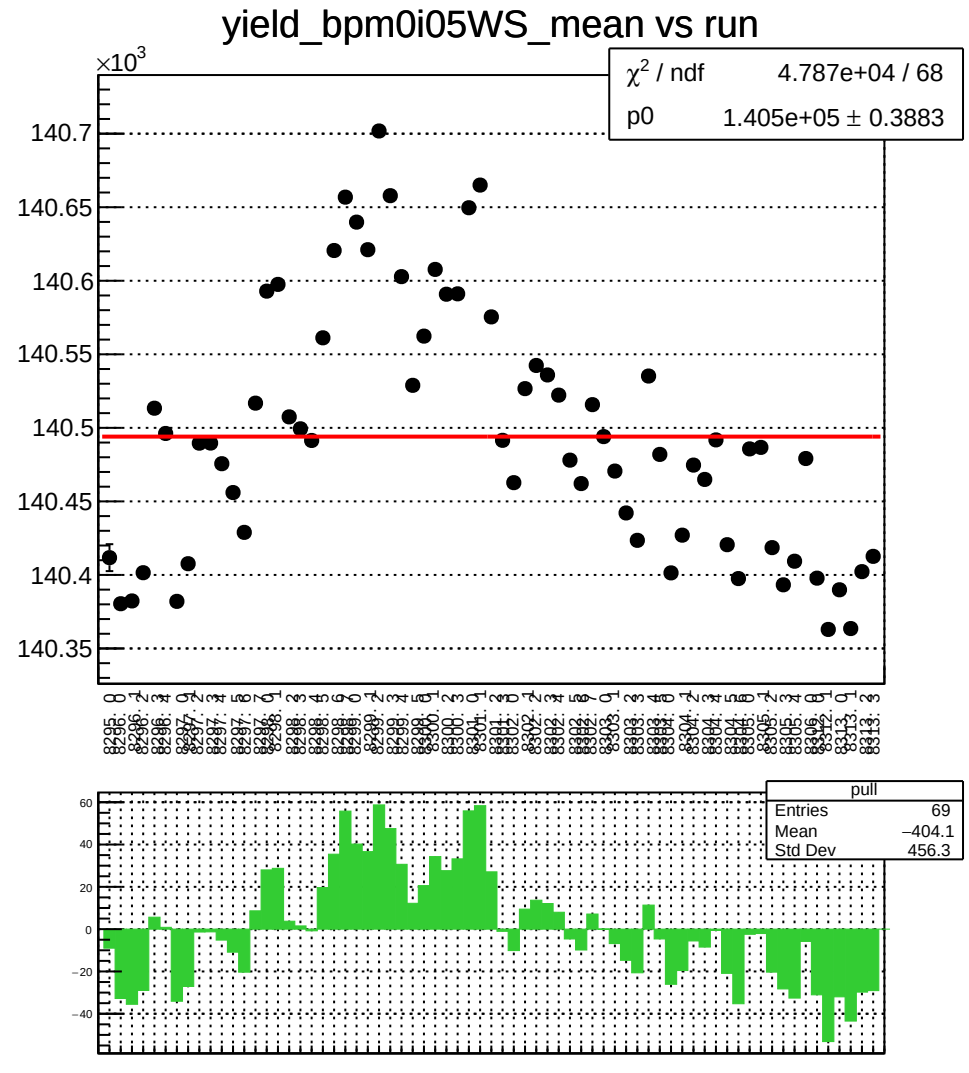

pull1D
Entries 69
Mean 1.444
Std Dev 5.015
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

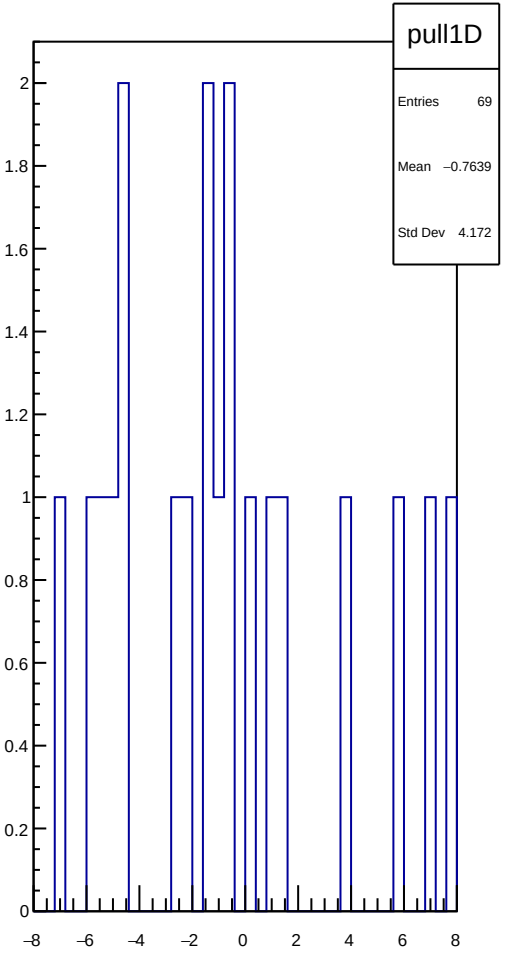

yield_bpm0i02WS_rms vs run
χ² / ndf 3113 / 68
p0 312 ± 0.2679
340
330
320
310
300
290
280
270
260

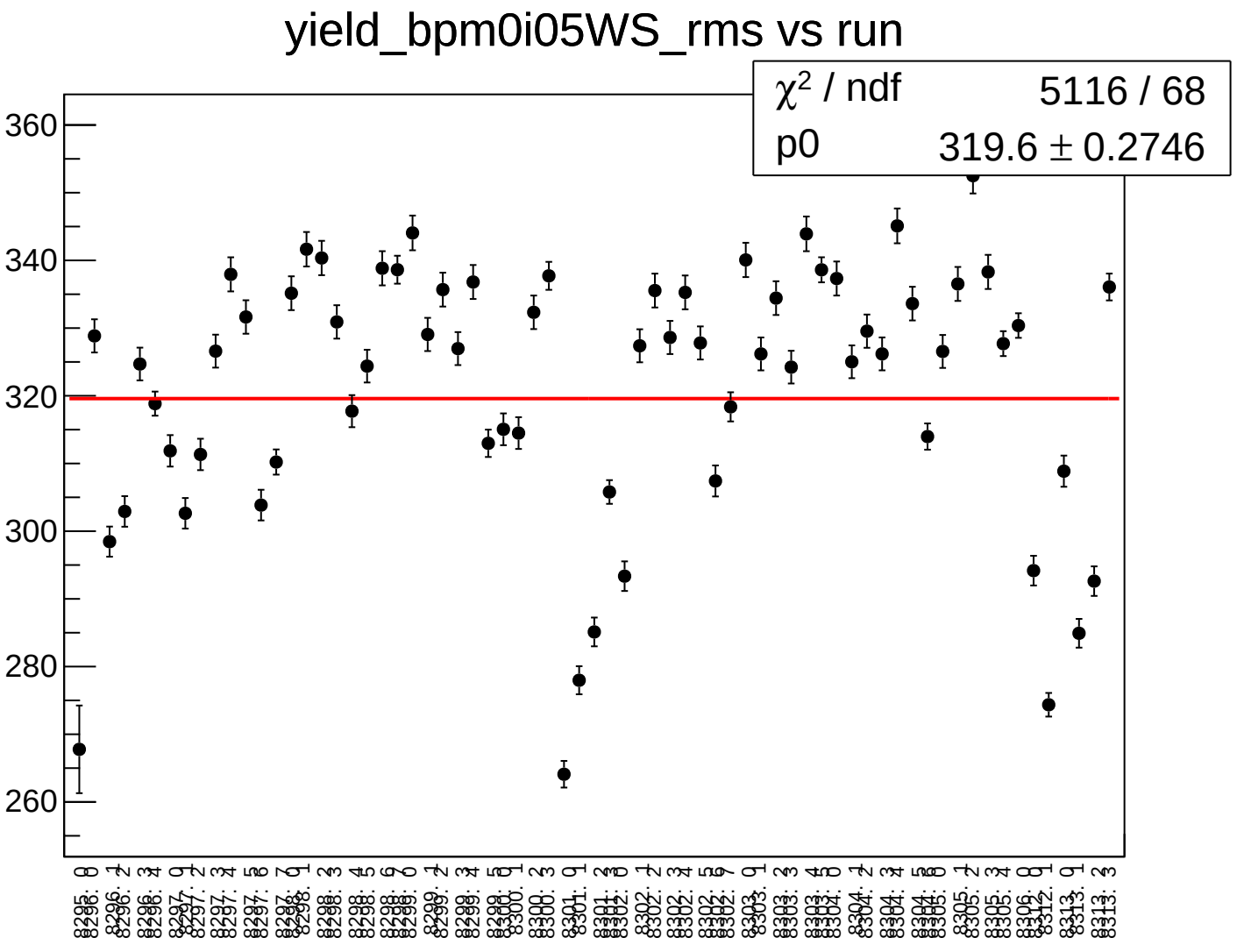

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.617e+05 / 68
p0 1.41e+05 ± 0.4211
141.8
141.6
141.4
141.2
141
140.8
140.6
pull
Entries 69
Mean 4.143e+04
Std Dev 4.141e+04
150
100
50
0
−50
−100

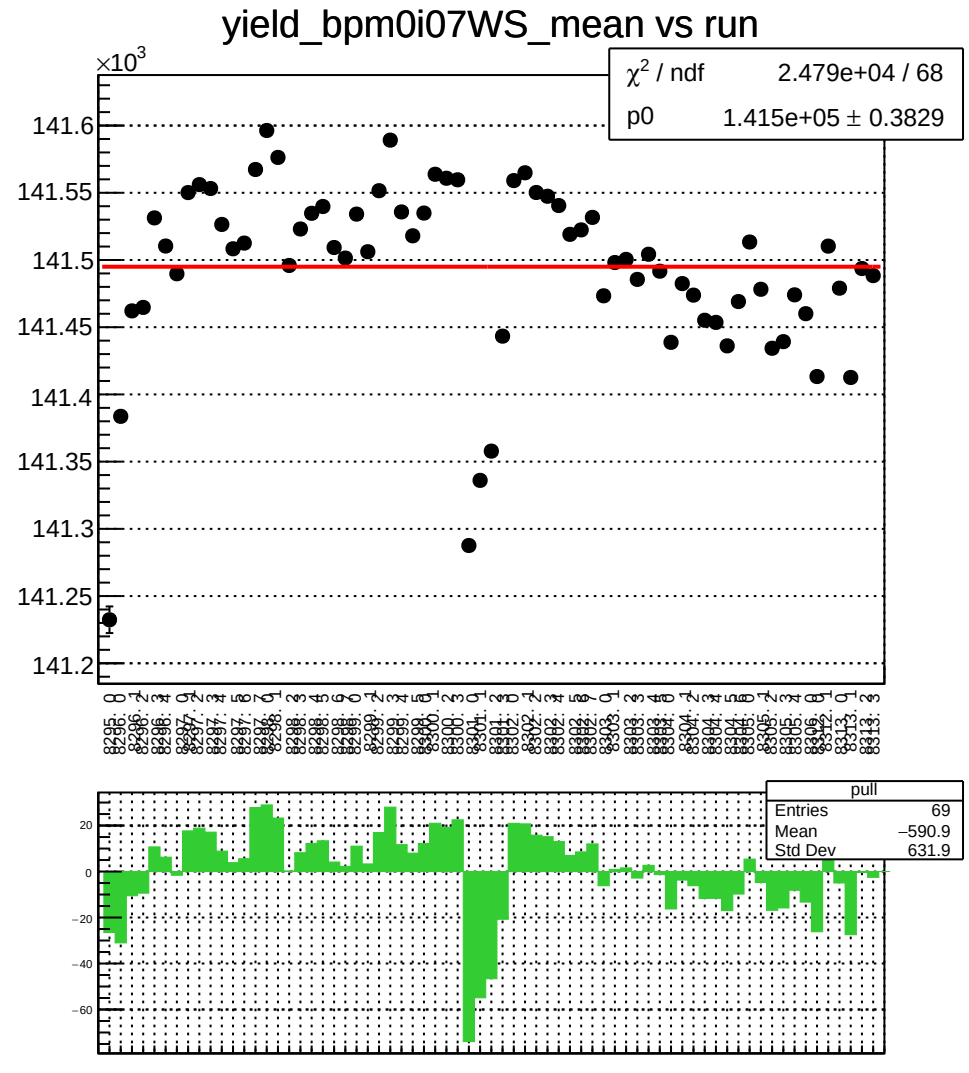

pull1D
Entries 69
Mean 2.664
Std Dev 3.177
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

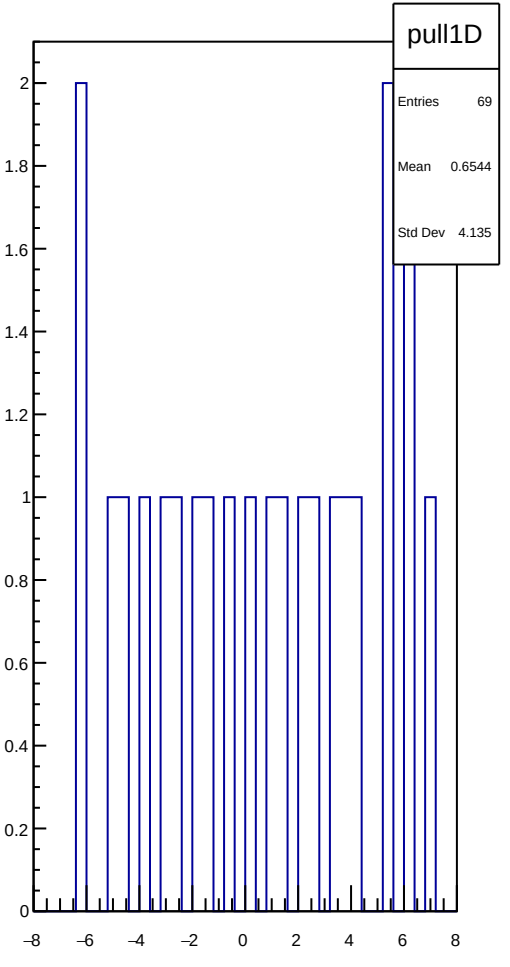

yield_bpm0i02aWS_rms vs run
χ² / ndf 5197 / 68
p0 346.6 ± 0.2978
420
400
380
360
340
320
300
280

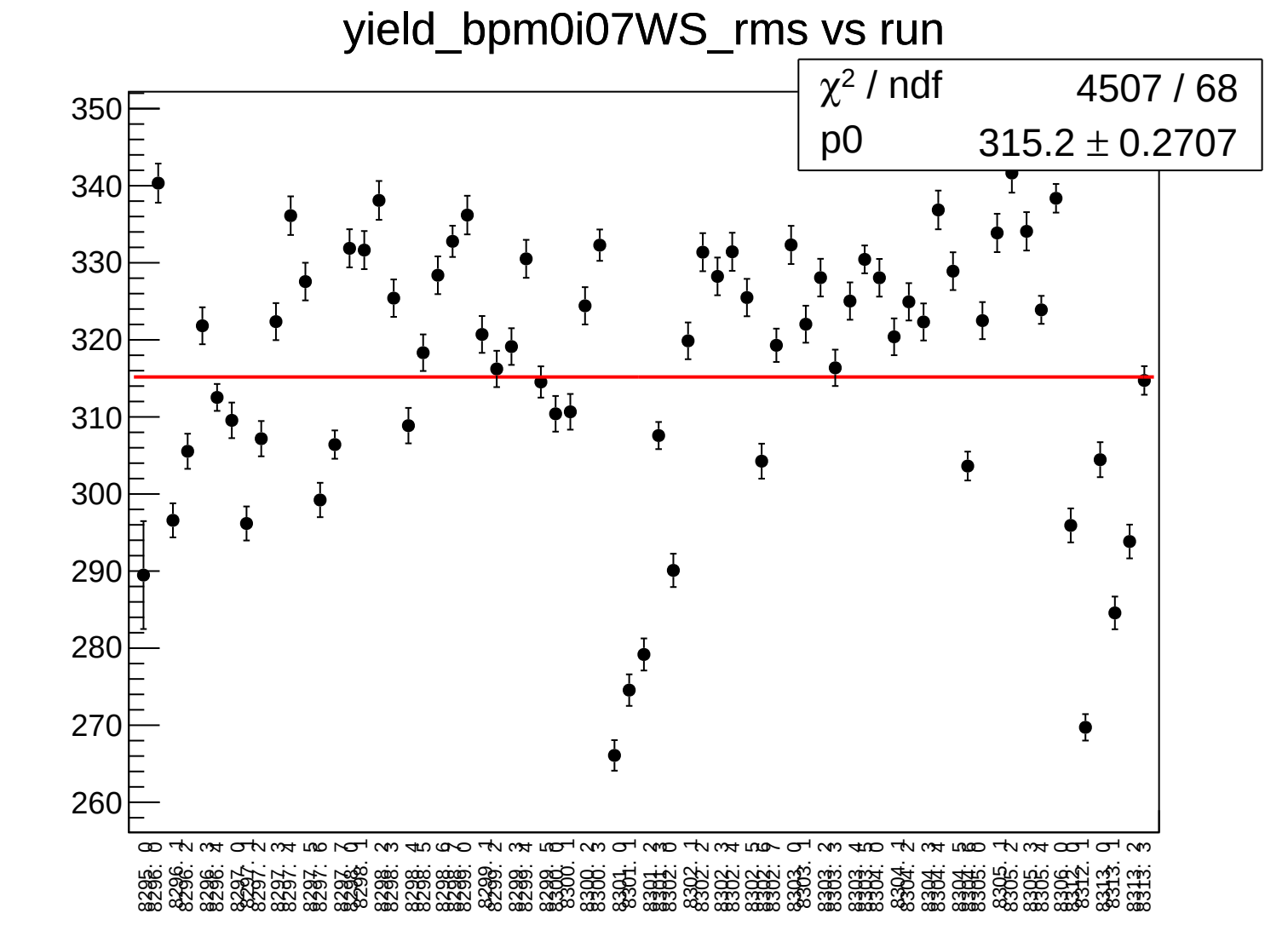

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 4.787e+04 / 68
p0 1.405e+05 ± 0.3883
140.7
140.65
140.6
140.55
140.5
140.45
140.4
140.35
pull
Entries 69
Mean −404.1
Std Dev 456.3
60
40
20
0
−20
−40

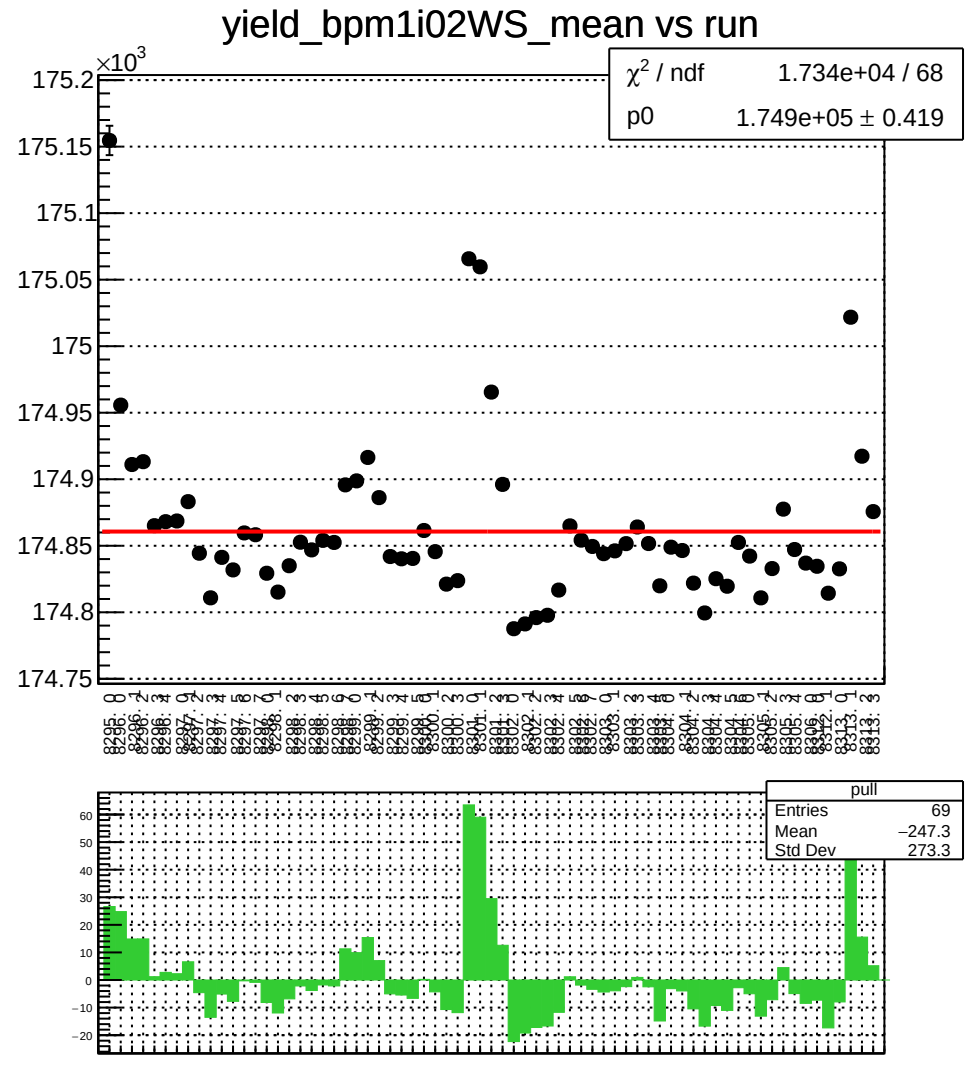

pull1D
Entries 69
Mean −0.7639
Std Dev 4.172
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

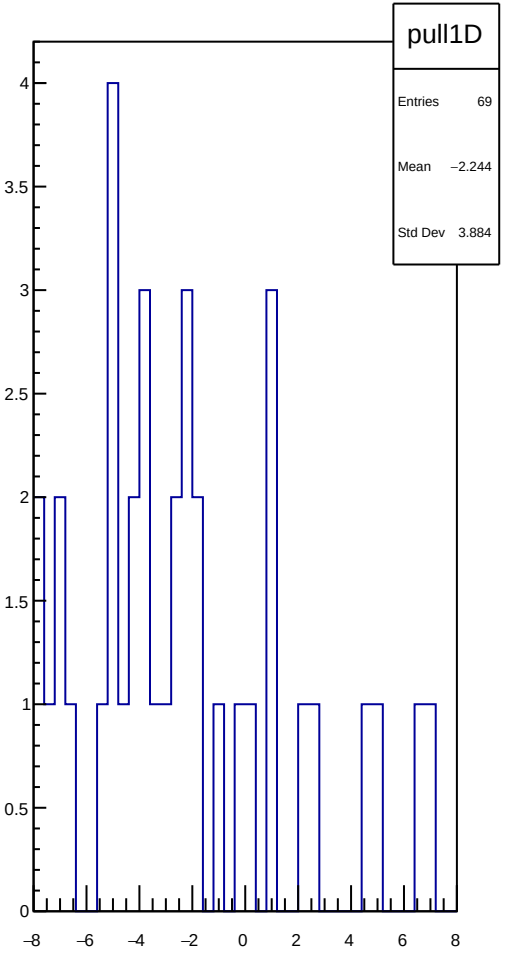

yield_bpm0i05WS_rms vs run
χ² / ndf 5116 / 68
p0 319.6 ± 0.2746
360
340
320
300
280
260

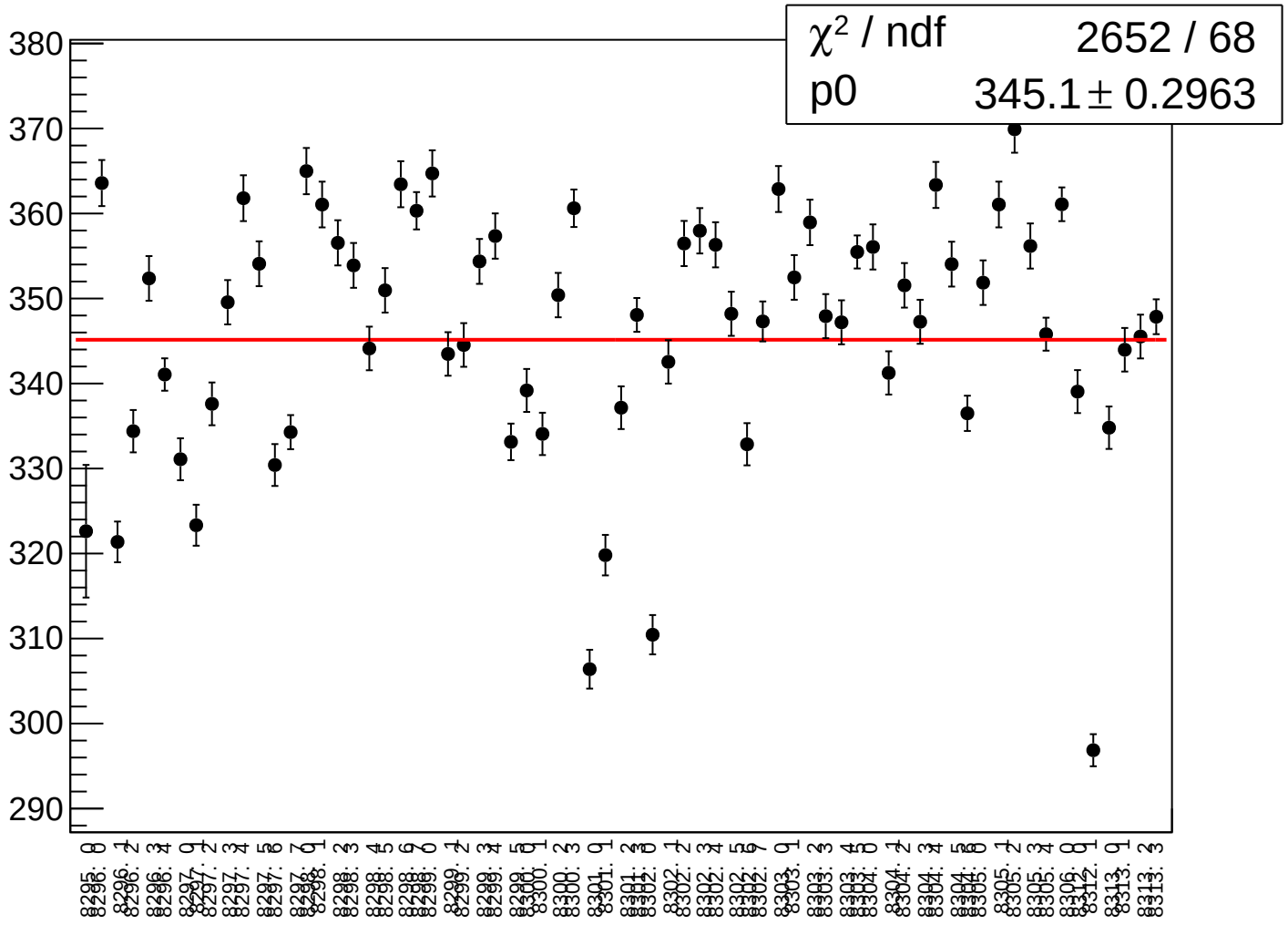

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.479e+04 / 68
p0 1.415e+05 ± 0.3829
141.6
141.55
141.5
141.45
141.4
141.35
141.3
141.25
141.2
pull
Entries 69
Mean −590.9
Std Dev 631.9
20
0
−20
−40
−60

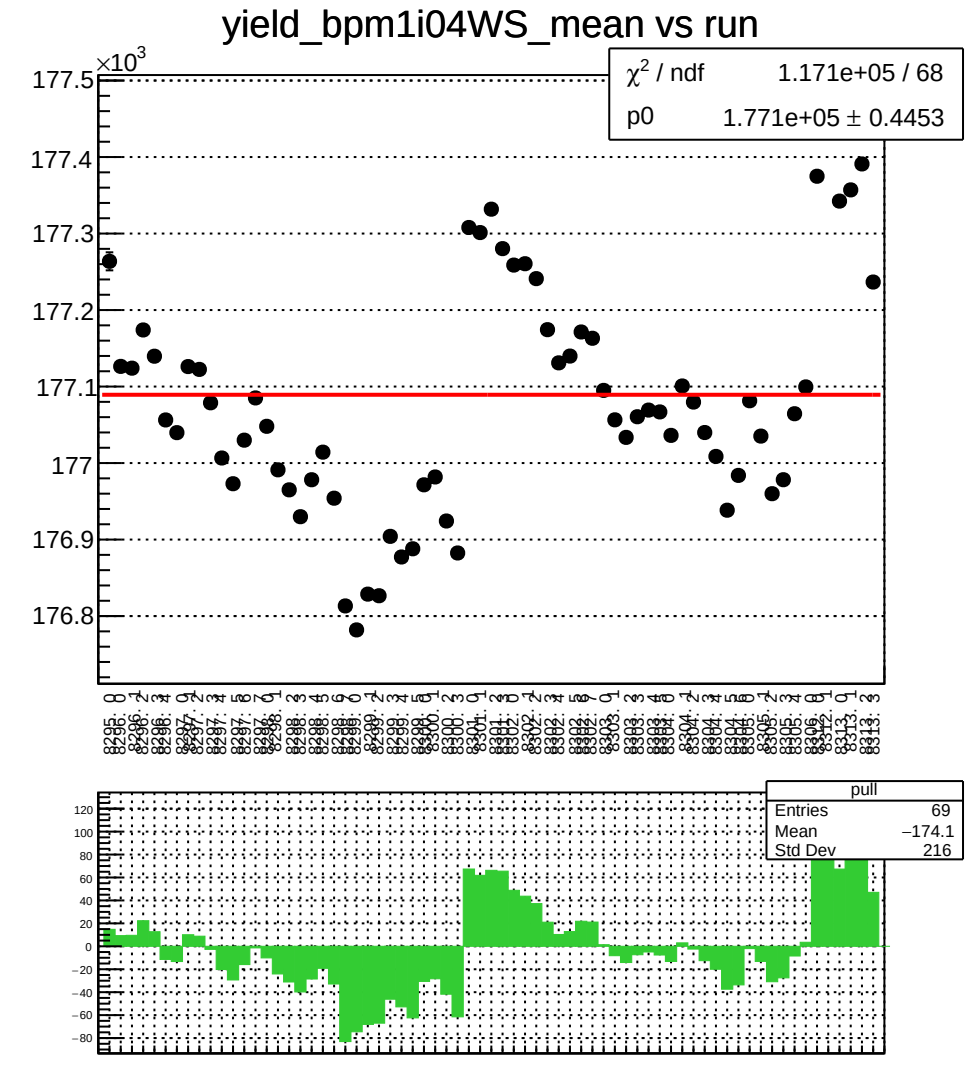

pull1D
Entries 69
Mean 0.6544
Std Dev 4.135
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

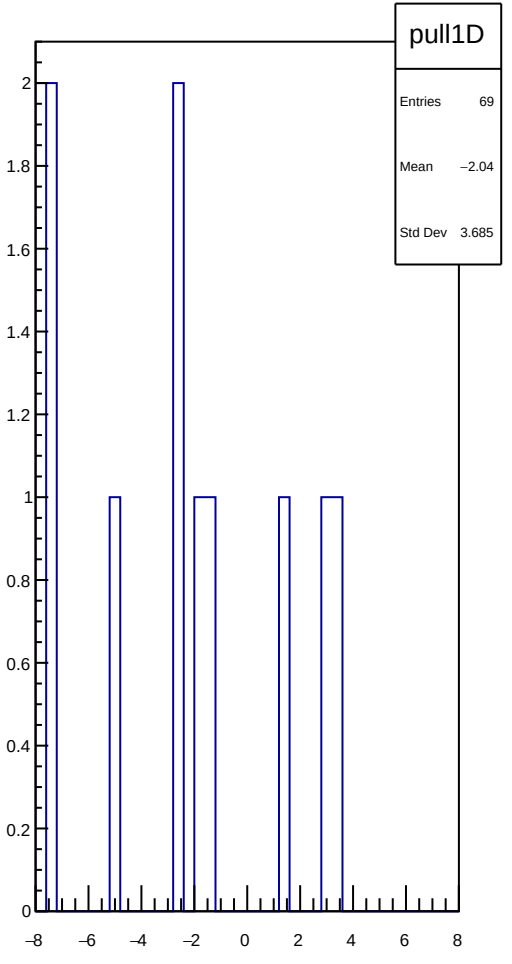

yield_bpm0i07WS_rms vs run
χ² / ndf 4507 / 68
p0 315.2 ± 0.2707
350
340
330
320
310
300
290
280
270
260

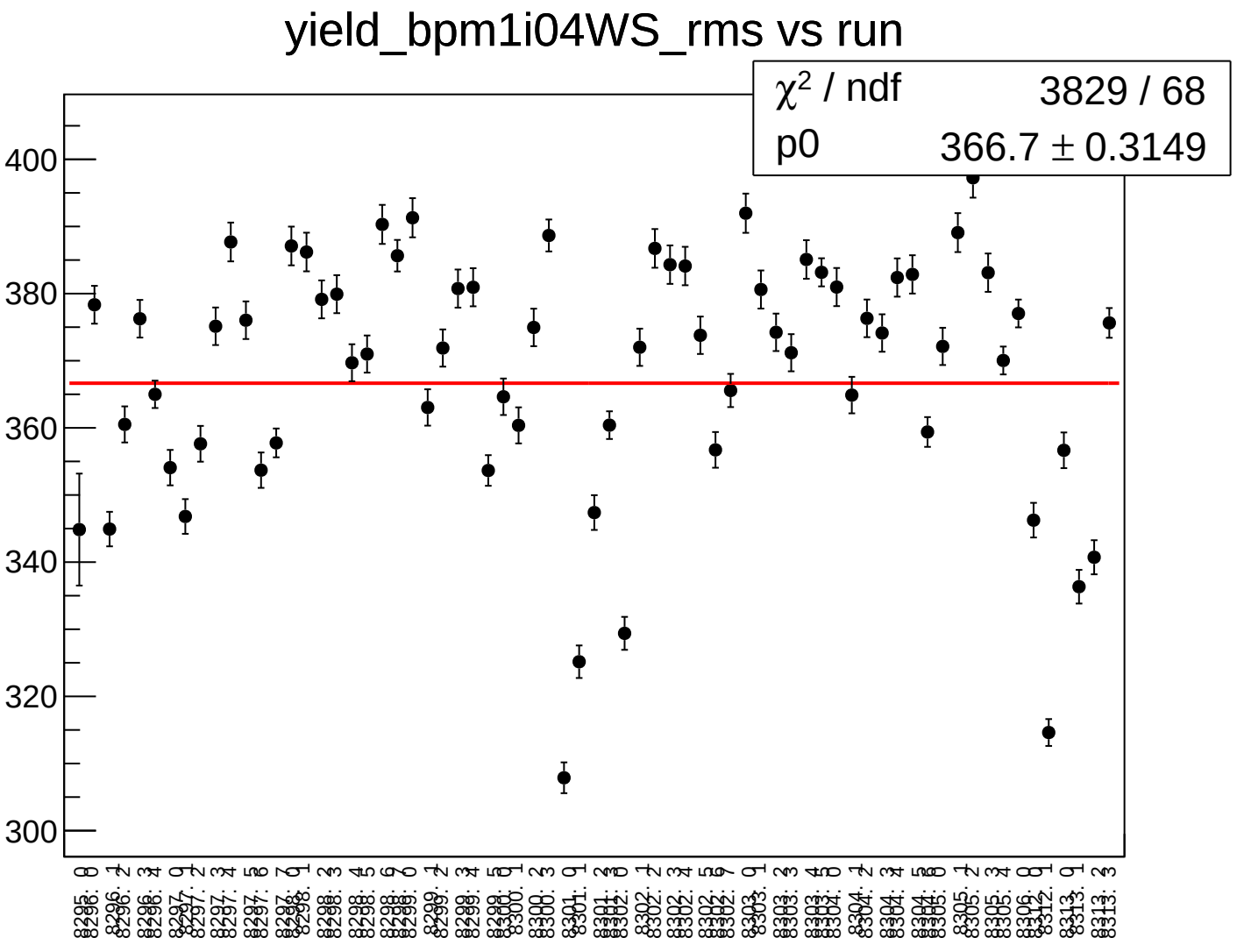

yield_bpm1i02WS_mean vs run
χ² / ndf 1.734e+04 / 68
p0 1.749e+05 ± 0.419
×10³
pull
Entries 69
Mean −247.3
Std Dev 273.3

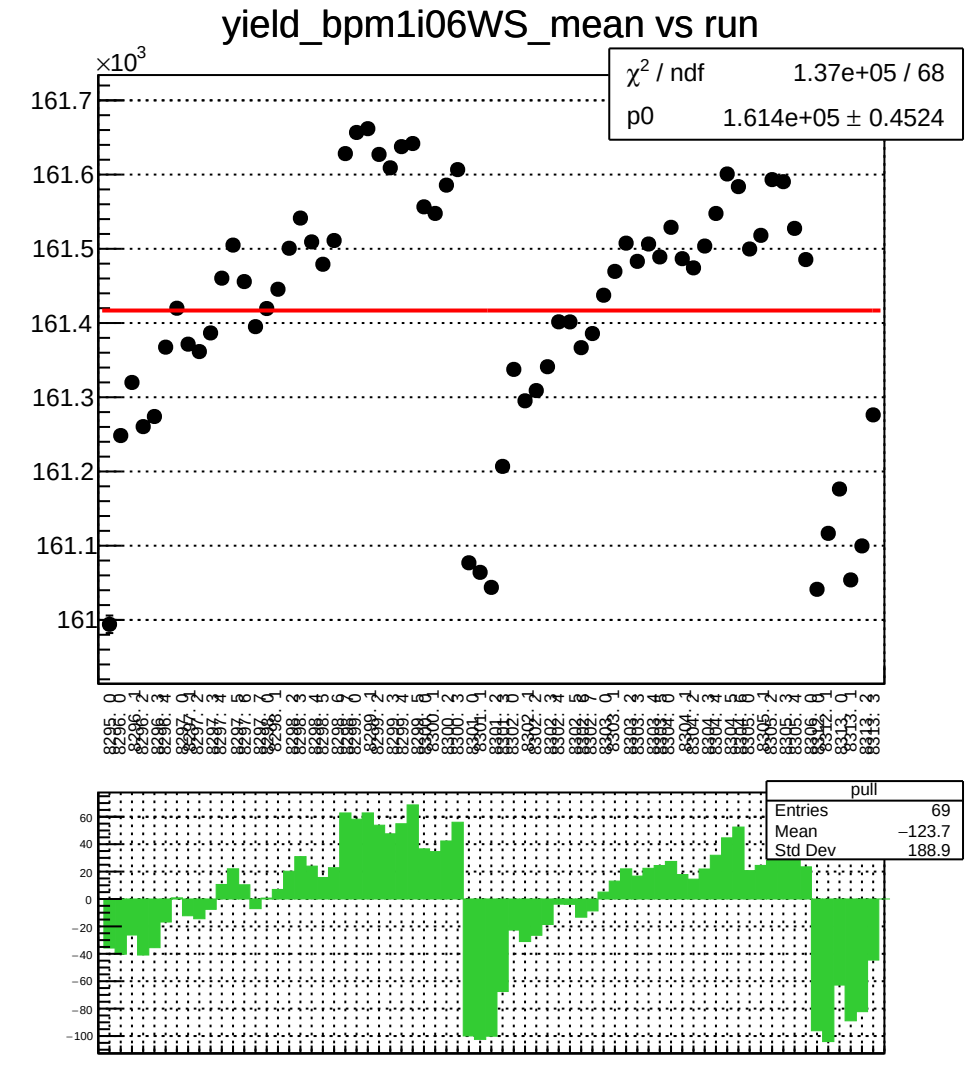

pull1D
Entries 69
Mean −2.244
Std Dev 3.884

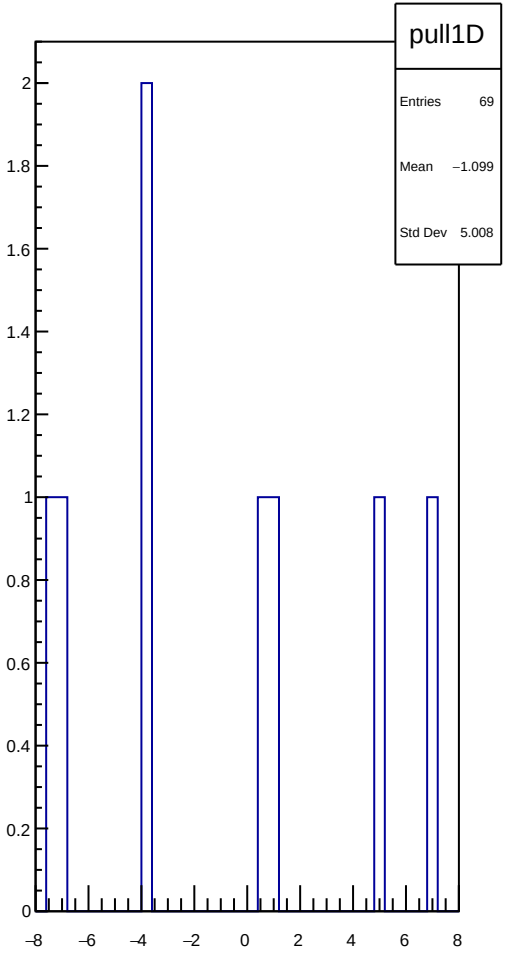

yield_bpm1i02WS_rms vs run
χ² / ndf 2652 / 68
p0 345.1 ± 0.2963
380
370
360
350
340
330
320
310
300
290

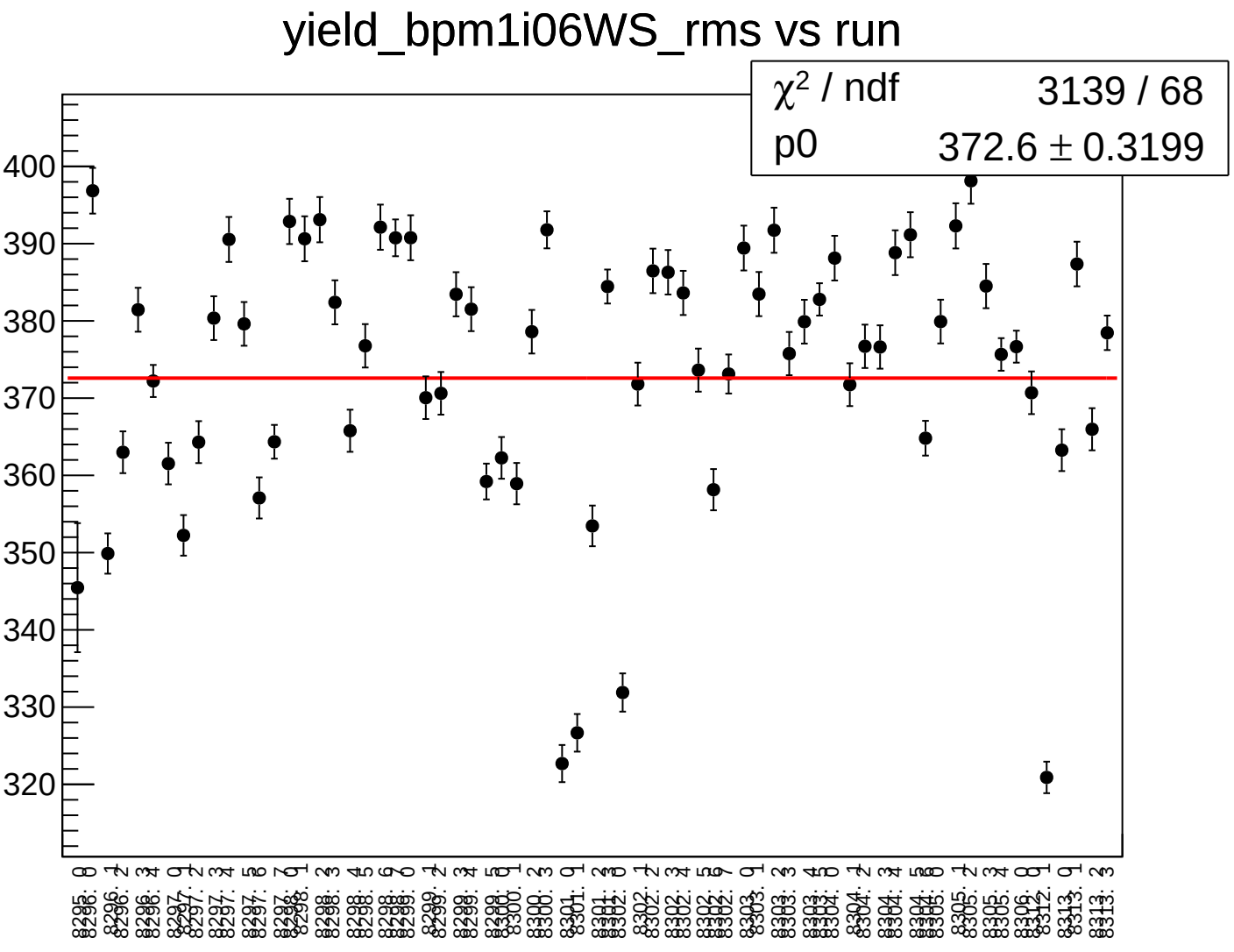

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.171e+05 / 68
p0 1.771e+05 ± 0.4453
177.5
177.4
177.3
177.2
177.1
177
176.9
176.8
pull
Entries 69
Mean −174.1
Std Dev 216
120
100
80
60
40
20
0
−20
−40
−60
−80

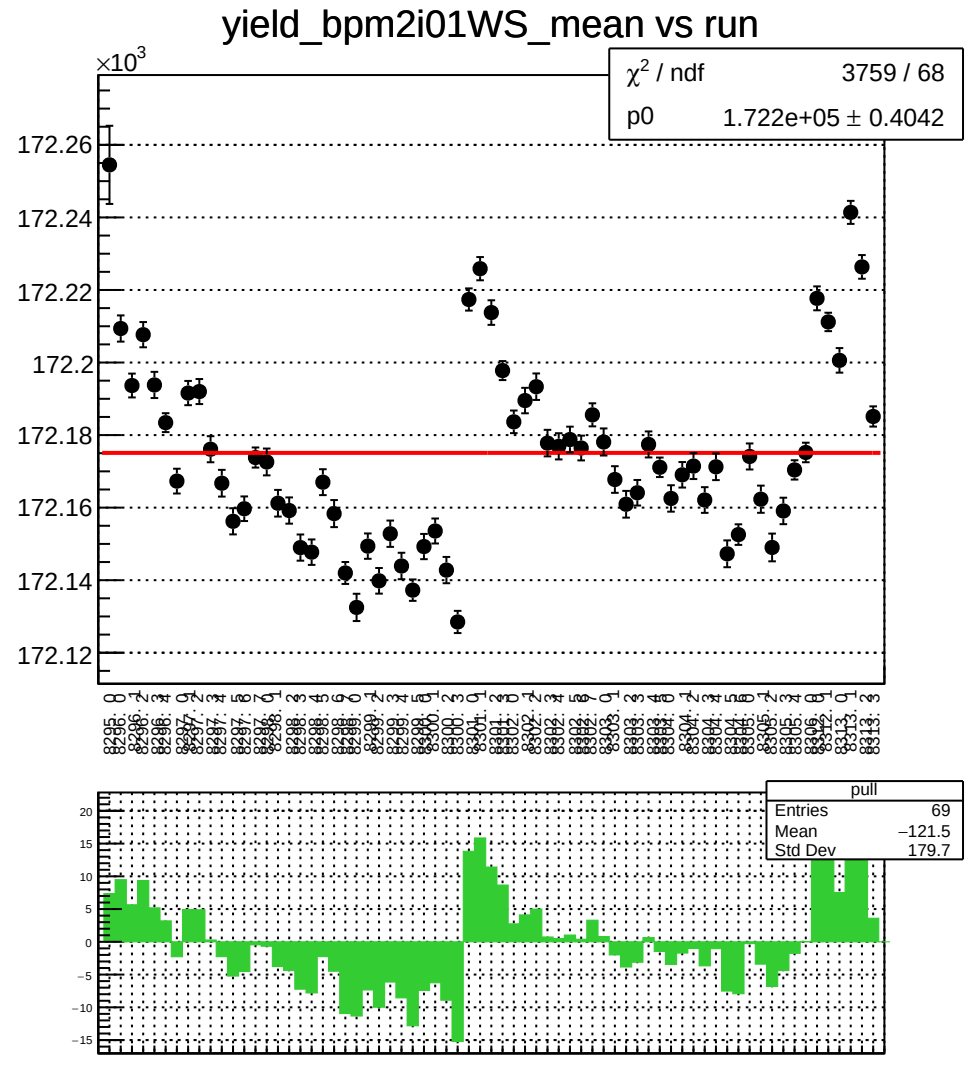

pull1D
Entries 69
Mean −2.04
Std Dev 3.685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

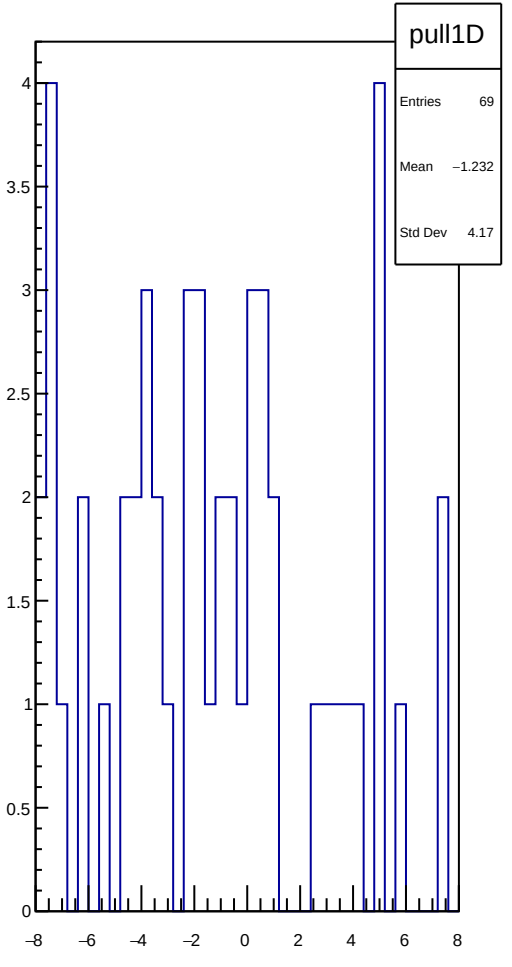

yield_bpm1i04WS_rms vs run
χ² / ndf 3829 / 68
p0 366.7 ± 0.3149
400
380
360
340
320
300

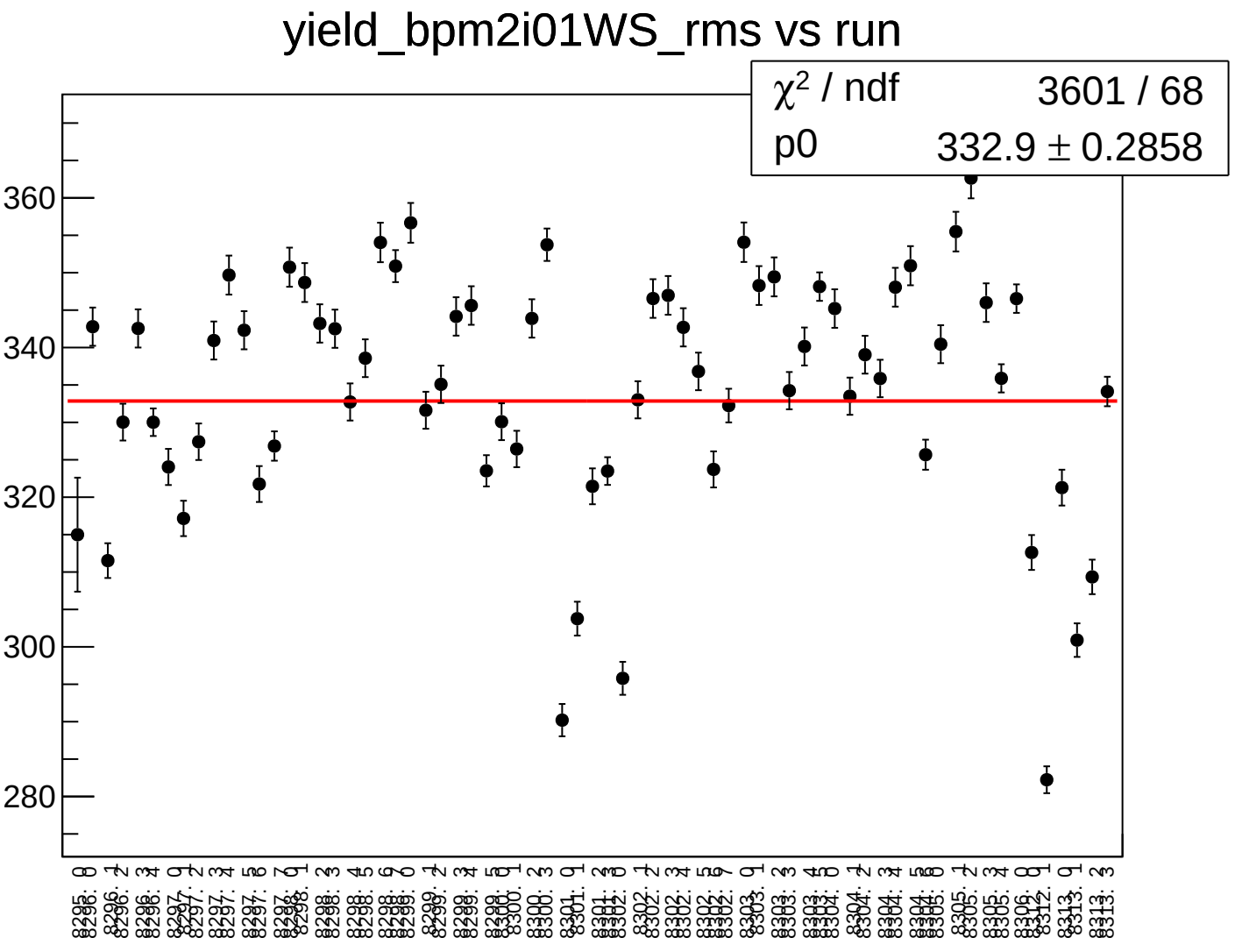

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.37e+05 / 68
p0 1.614e+05 ± 0.4524
161.7
161.6
161.5
161.4
161.3
161.2
161.1
161
pull
Entries 69
Mean −123.7
Std Dev 188.9
60
40
20
0
−20
−40
−60
−80
−100

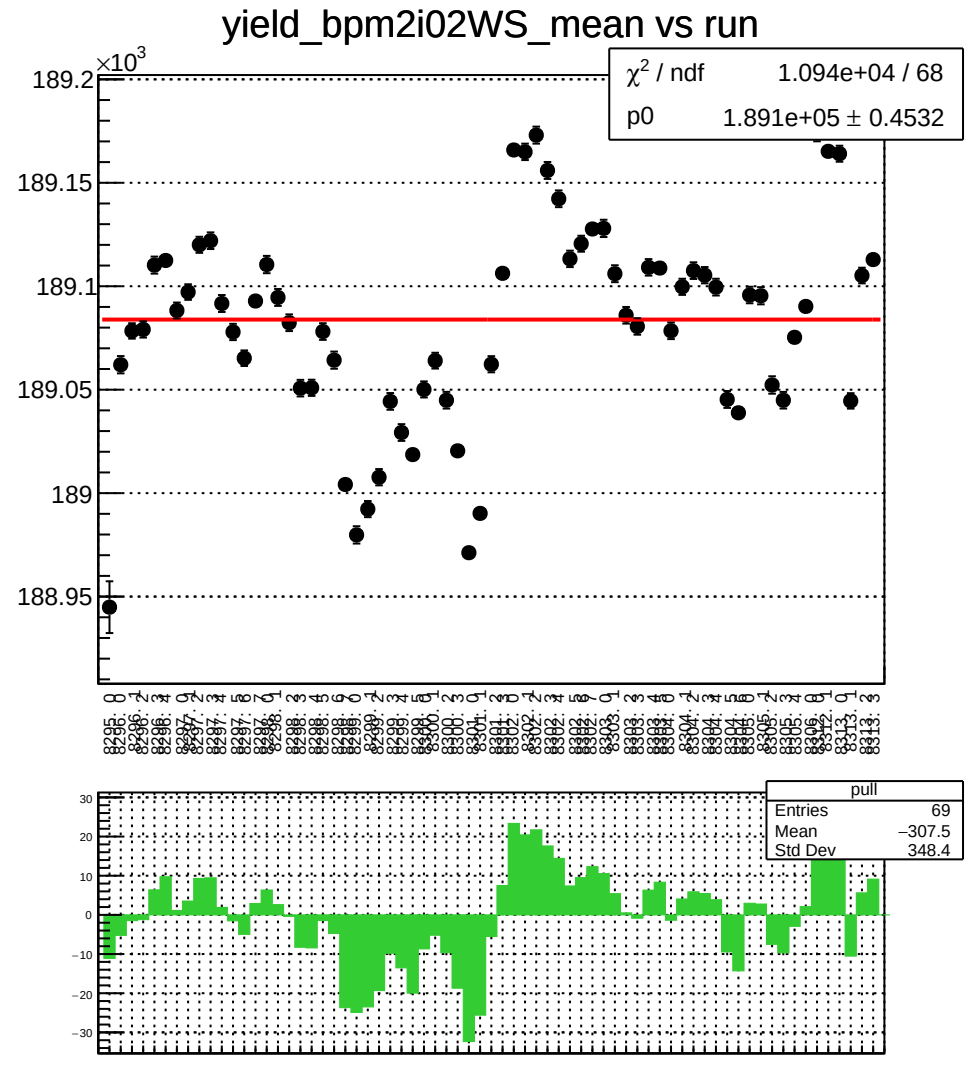

pull1D
Entries 69
Mean −1.099
Std Dev 5.008
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

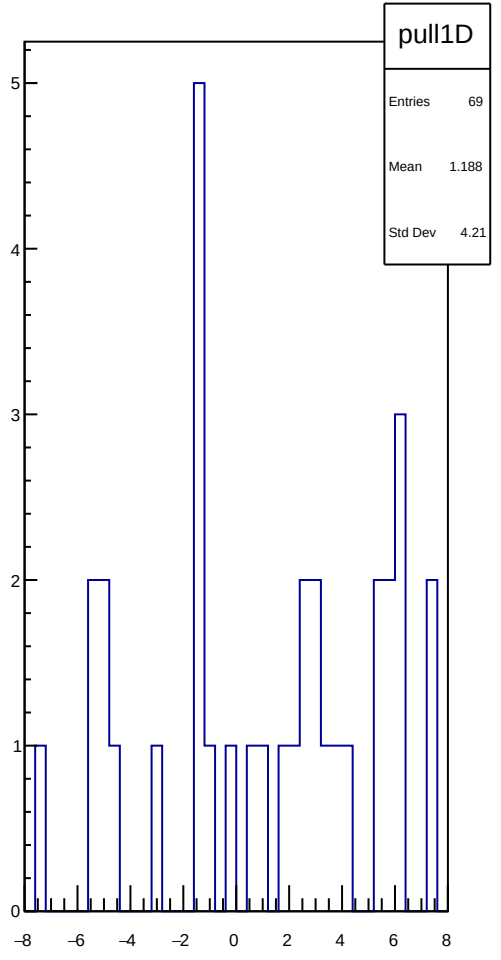

yield_bpm1i06WS_rms vs run
χ² / ndf 3139 / 68
p0 372.6 ± 0.3199
400
390
380
370
360
350
340
330
320

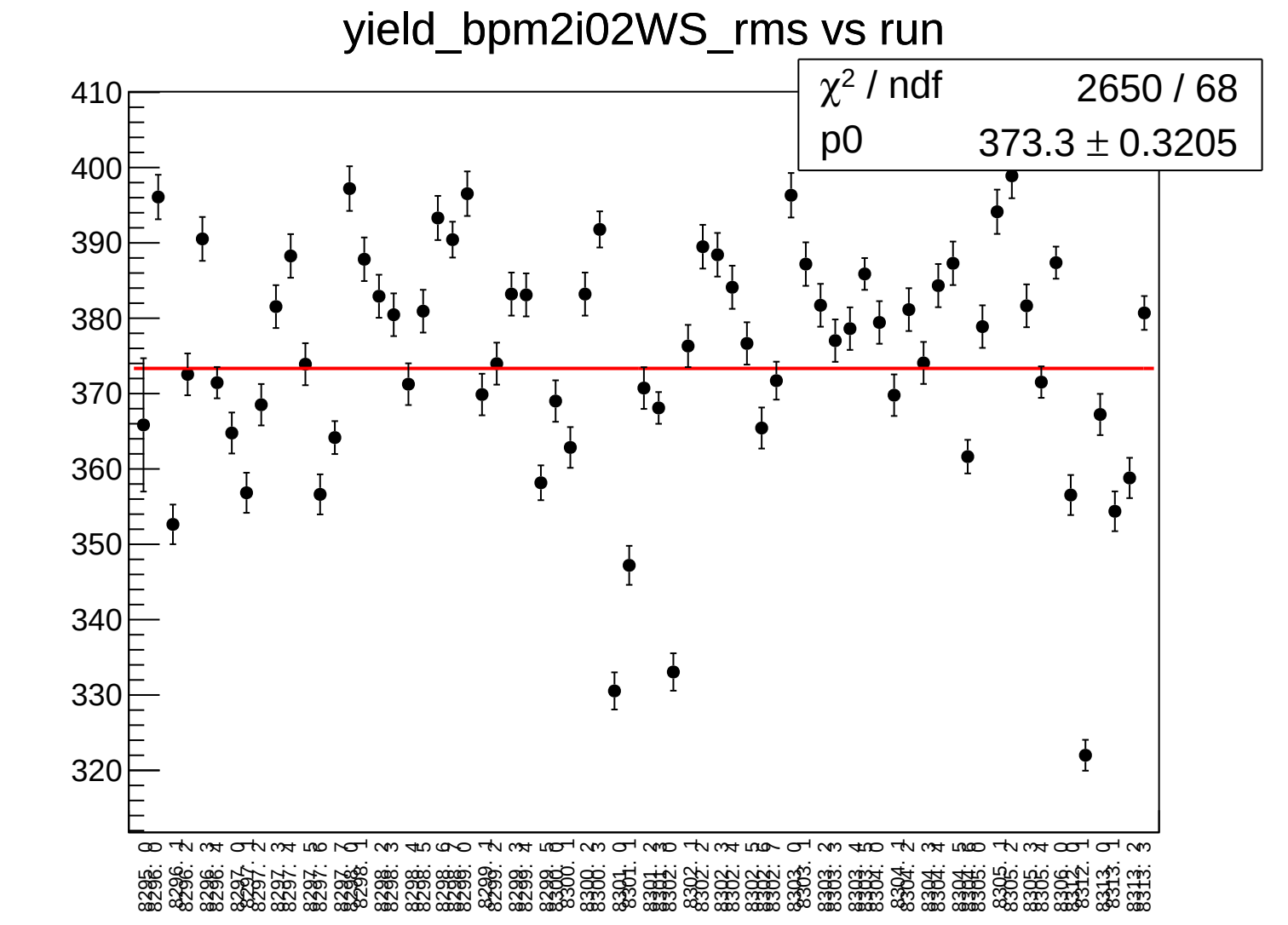

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3759 / 68
p0 1.722e+05 ± 0.4042
172.26
172.24
172.22
172.2
172.18
172.16
172.14
172.12
pull
Entries 69
Mean −121.5
Std Dev 179.7
20
15
10
5
0
−5
−10
−15

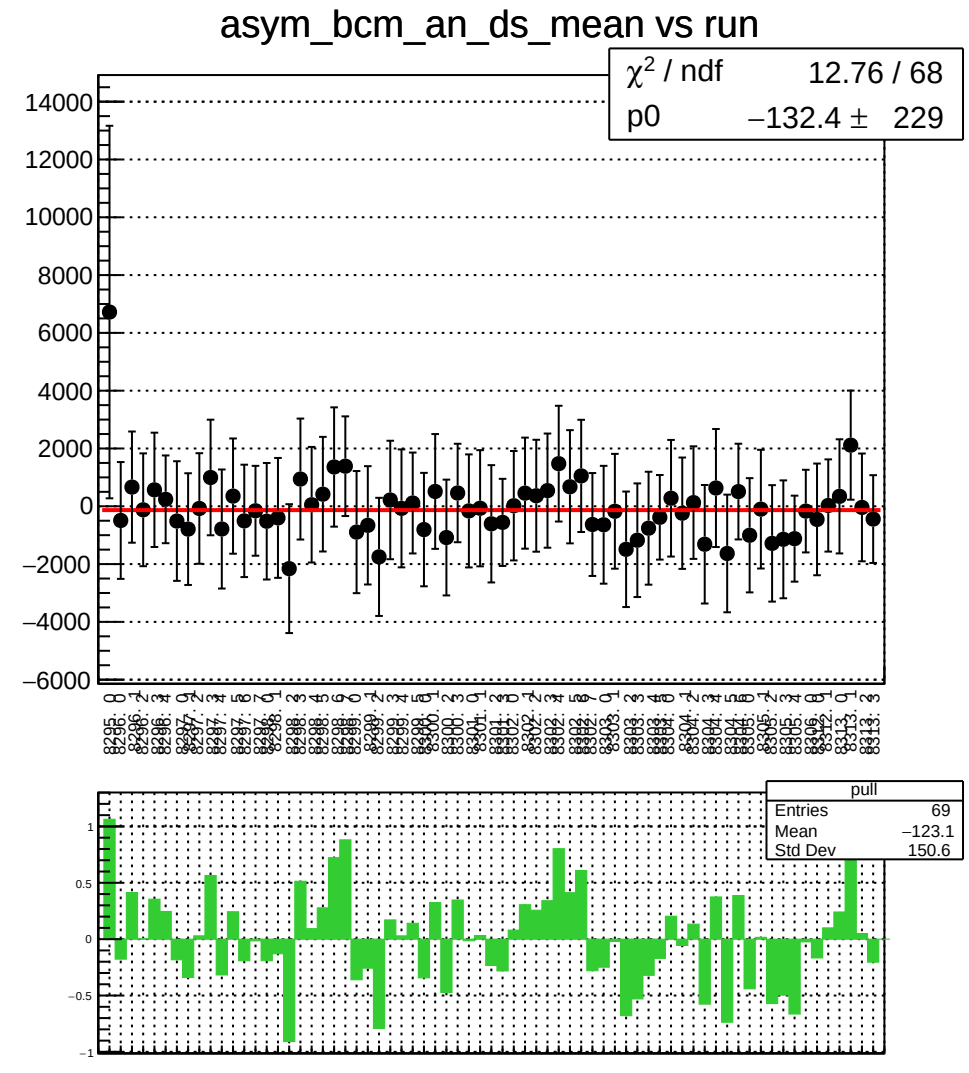

pull1D
Entries 69
Mean −1.232
Std Dev 4.17
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

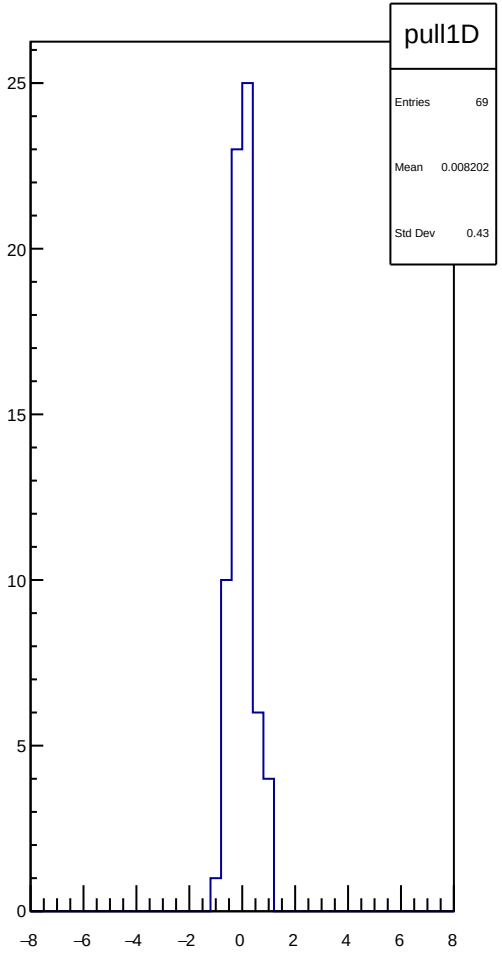

yield_bpm2i01WS_rms vs run
χ² / ndf 3601 / 68
p0 332.9 ± 0.2858
360
340
320
300
280

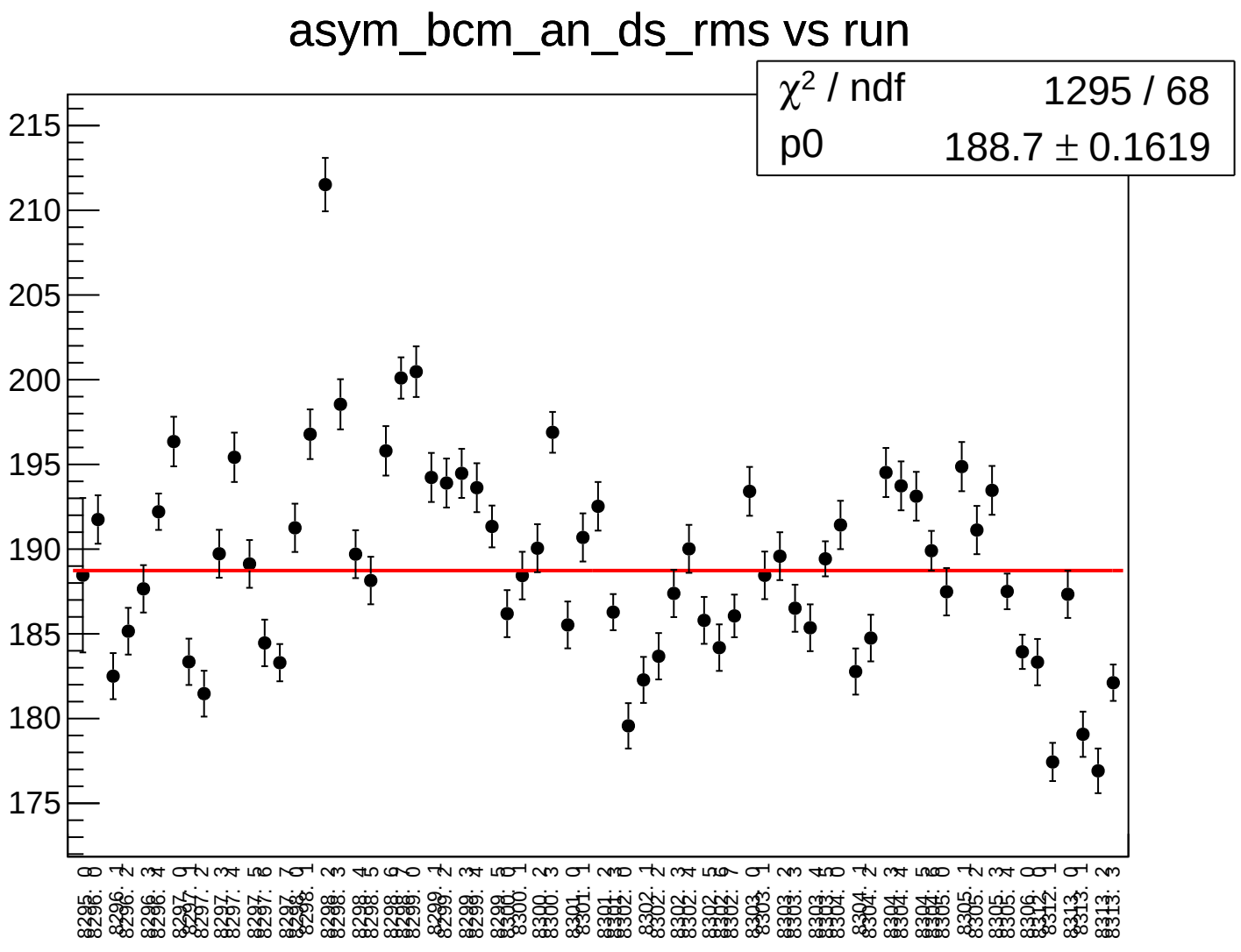

yield_bpm2i02WS_mean vs run
×10^3
189.2
189.15
189.1
189.05
189
188.95
χ² / ndf 1.094e+04 / 68
p0 1.891e+05 ± 0.4532
pull
Entries 69
Mean −307.5
Std Dev 348.4
30
20
10
0
−10
−20
−30

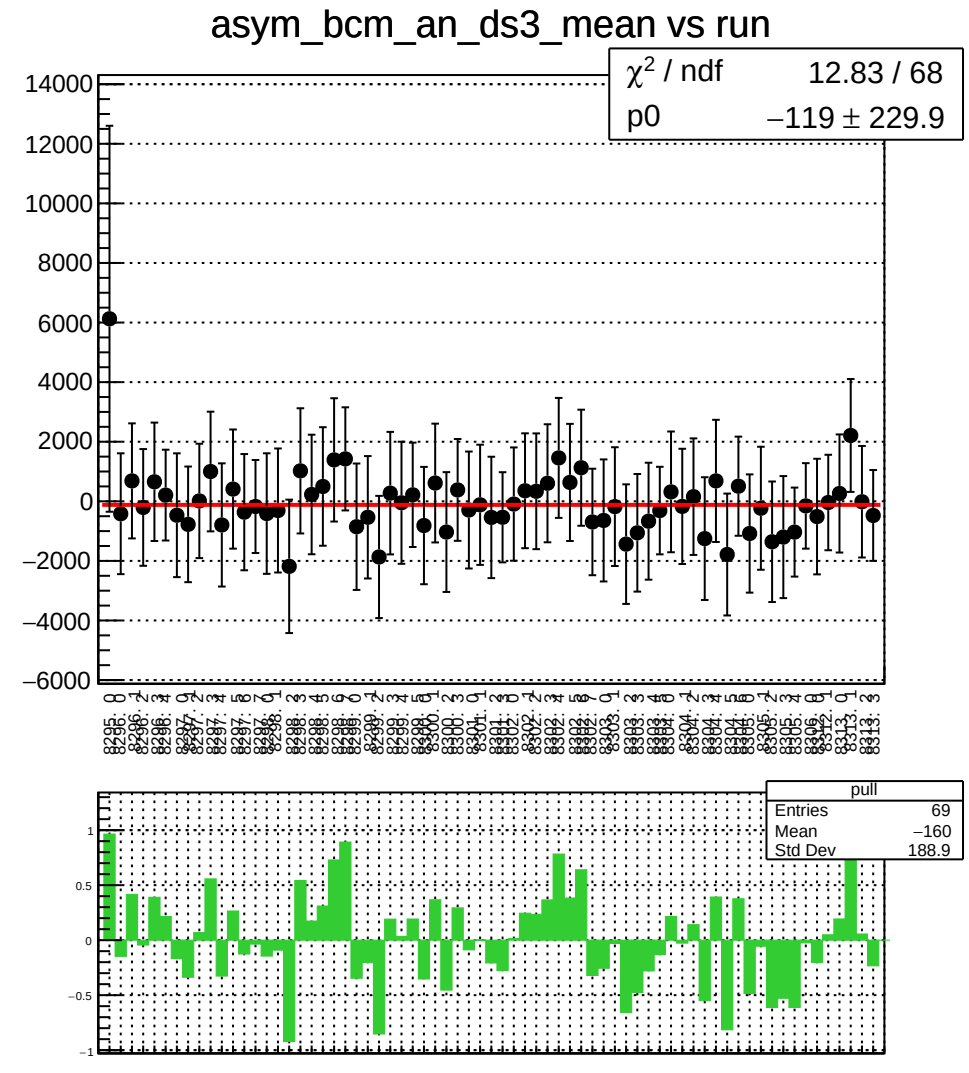

pull1D
Entries 69
Mean 1.188
Std Dev 4.21
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

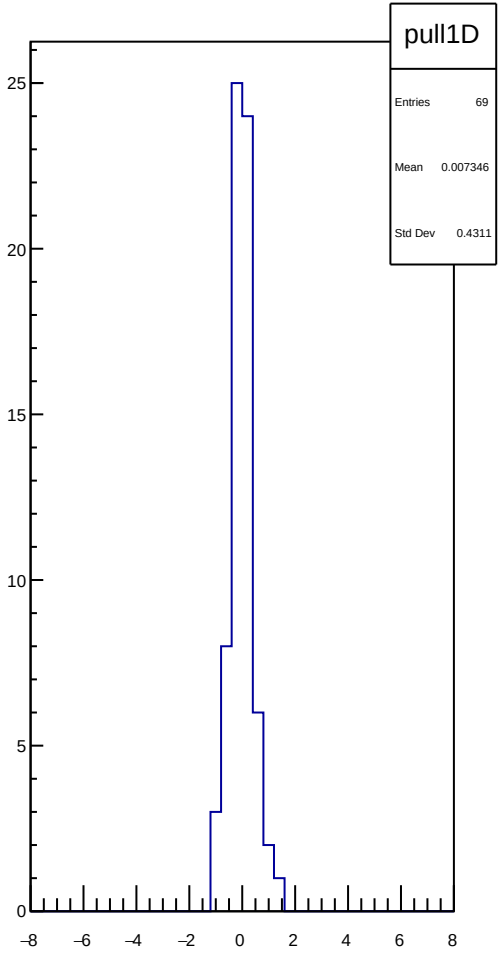

yield_bpm2i02WS_rms vs run
χ² / ndf 2650 / 68
p0 373.3 ± 0.3205
410
400
390
380
370
360
350
340
330
320

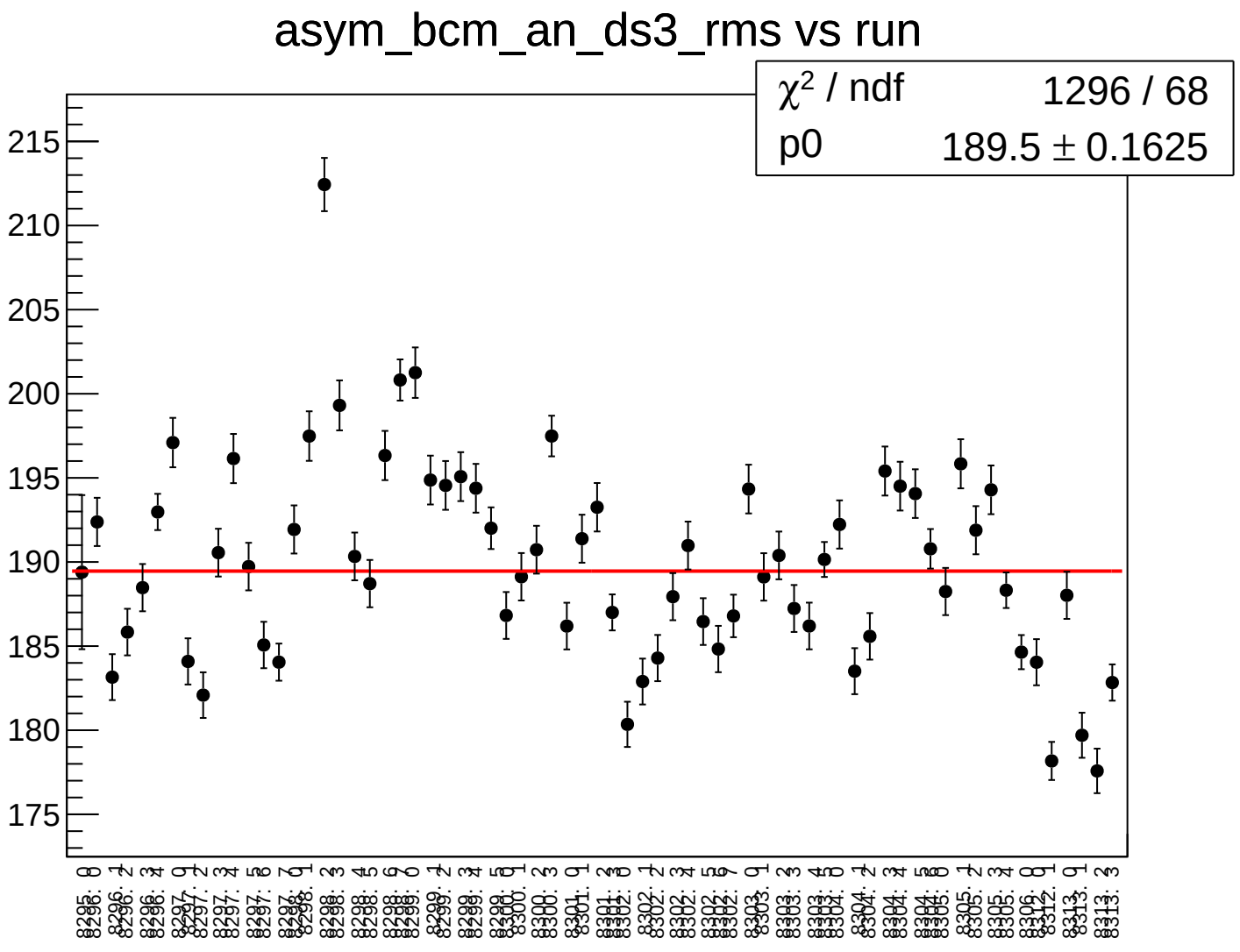

asym_bcm_an_ds_mean vs run
χ² / ndf 12.76 / 68
p0 −132.4 ± 229
pull
Entries 69
Mean −123.1
Std Dev 150.6

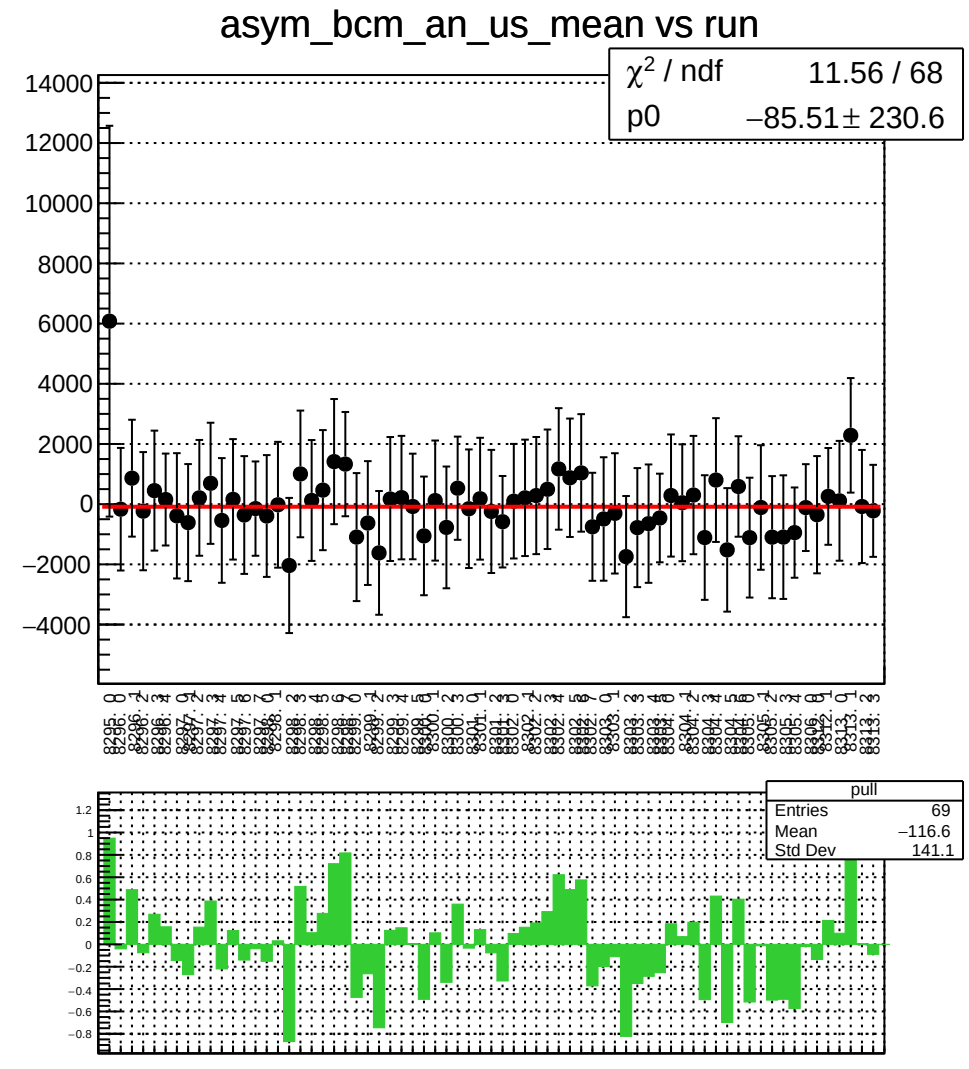

pull1D
Entries 69
Mean 0.008202
Std Dev 0.43

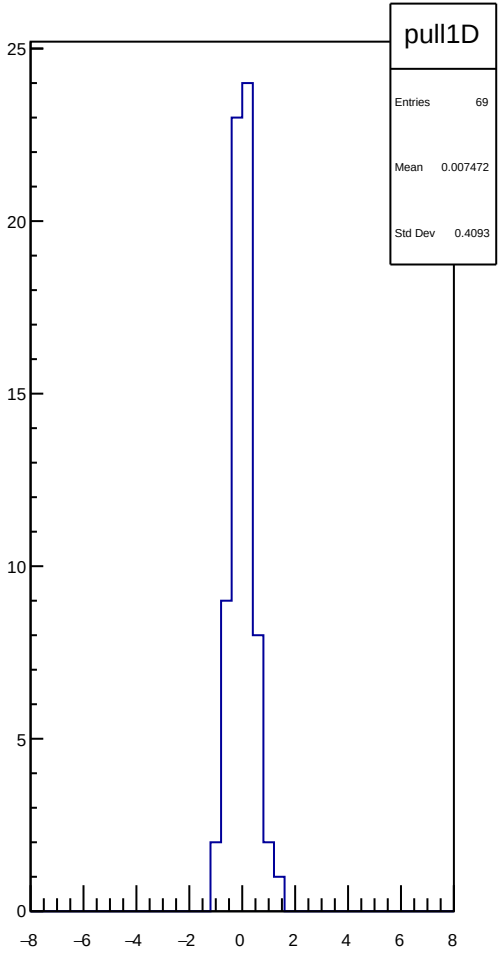

asym_bcm_an_ds_rms vs run
χ² / ndf 1295 / 68
p0 188.7 ± 0.1619
215
210
205
200
195
190
185
180
175

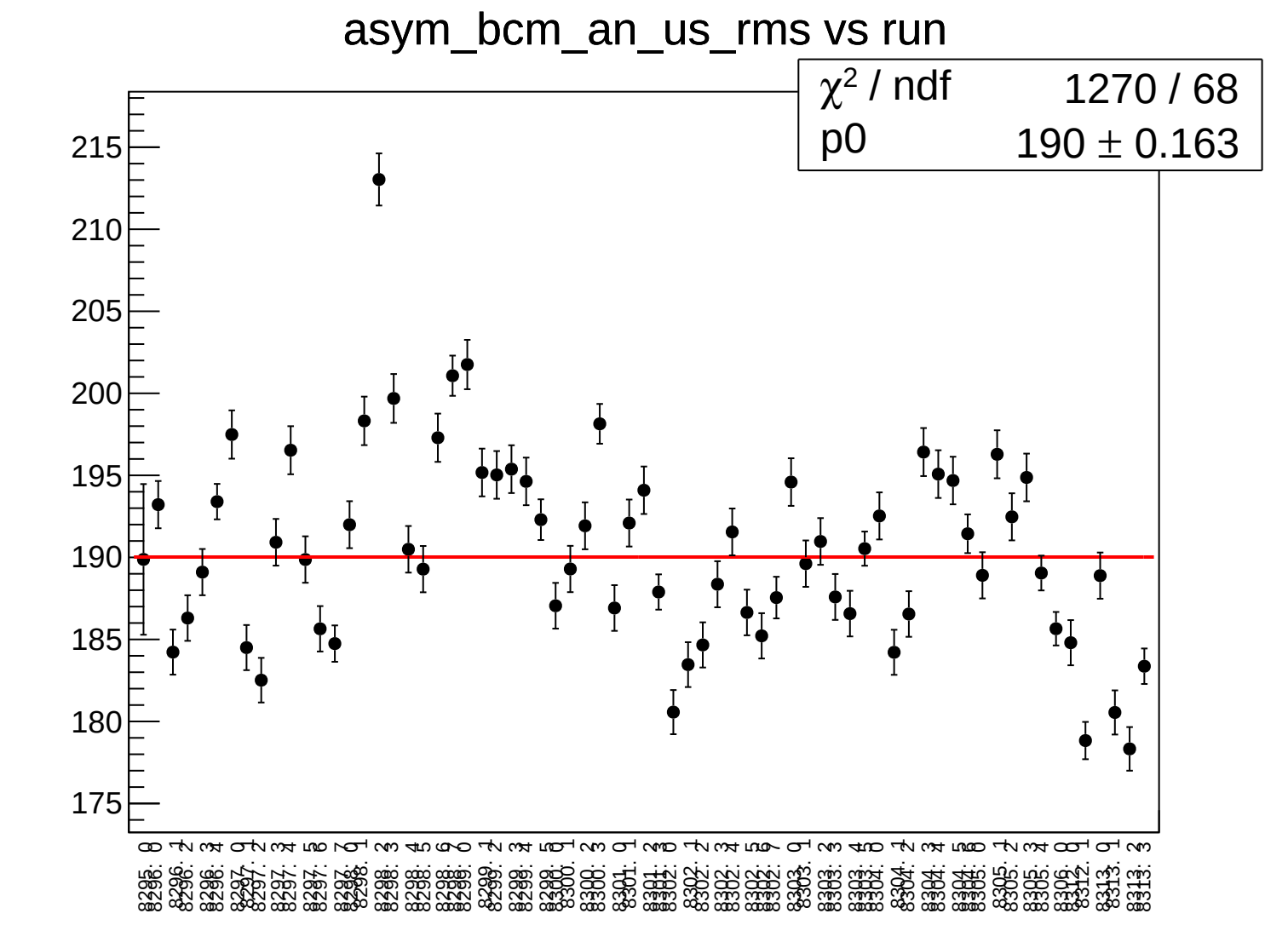

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.83 / 68
p0 −119 ± 229.9
pull
Entries 69
Mean −160
Std Dev 188.9

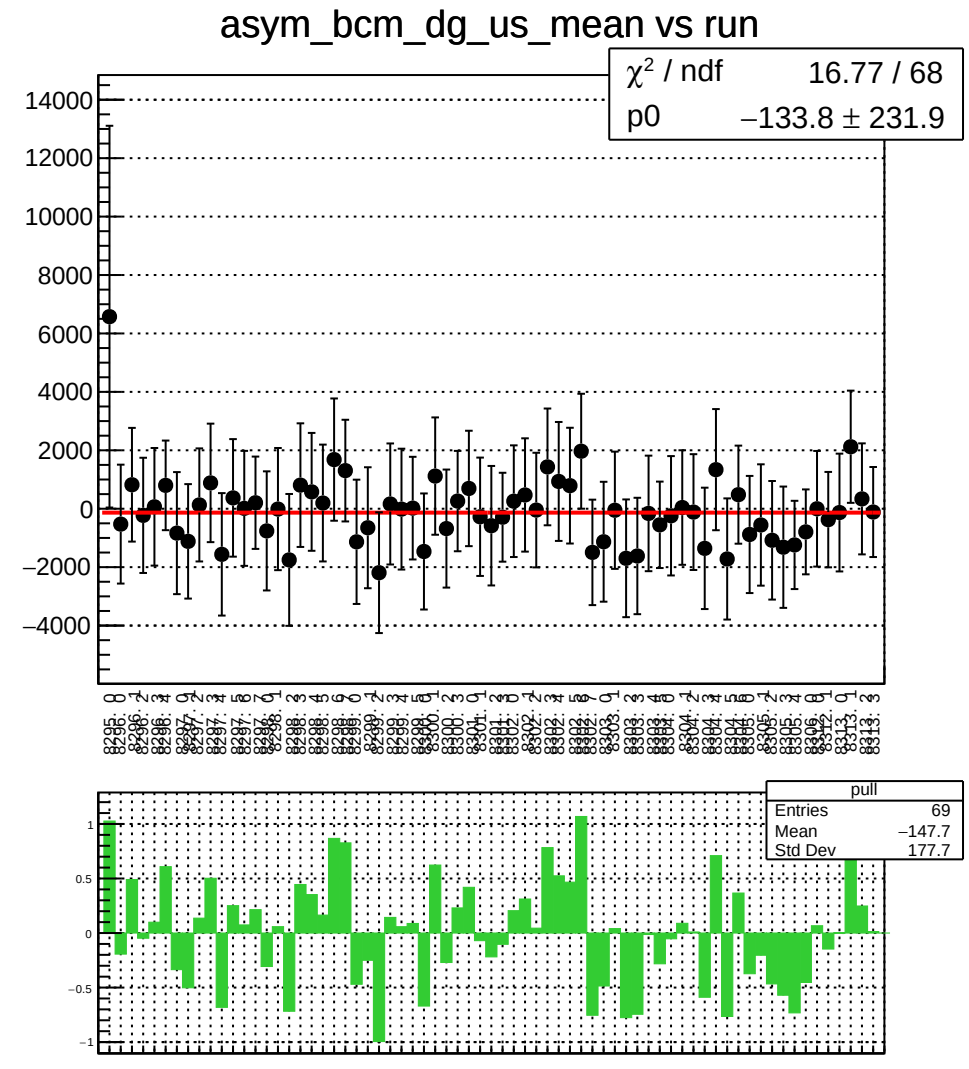

pull1D
Entries 69
Mean 0.007346
Std Dev 0.4311

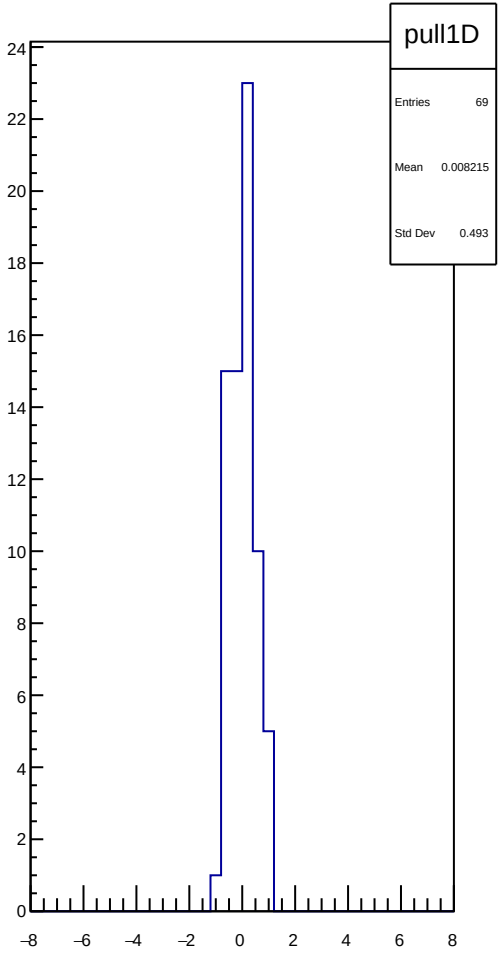

asym_bcm_an_ds3_rms vs run
χ² / ndf 1296 / 68
p0 189.5 ± 0.1625
215
210
205
200
195
190
185
180
175

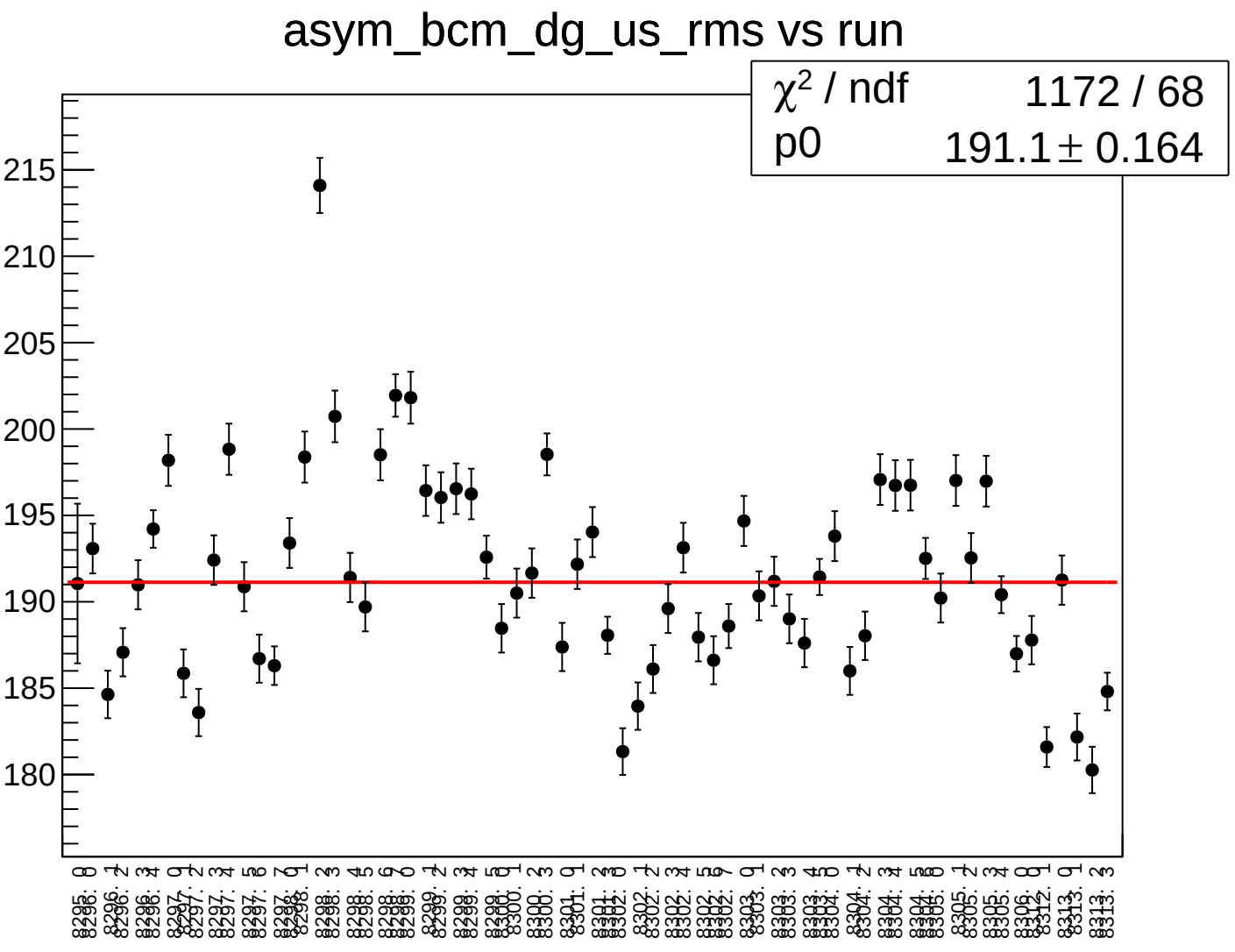

asym_bcm_an_us_mean vs run
χ² / ndf 11.56 / 68
p0 −85.51 ± 230.6
pull
Entries 69
Mean −116.6
Std Dev 141.1

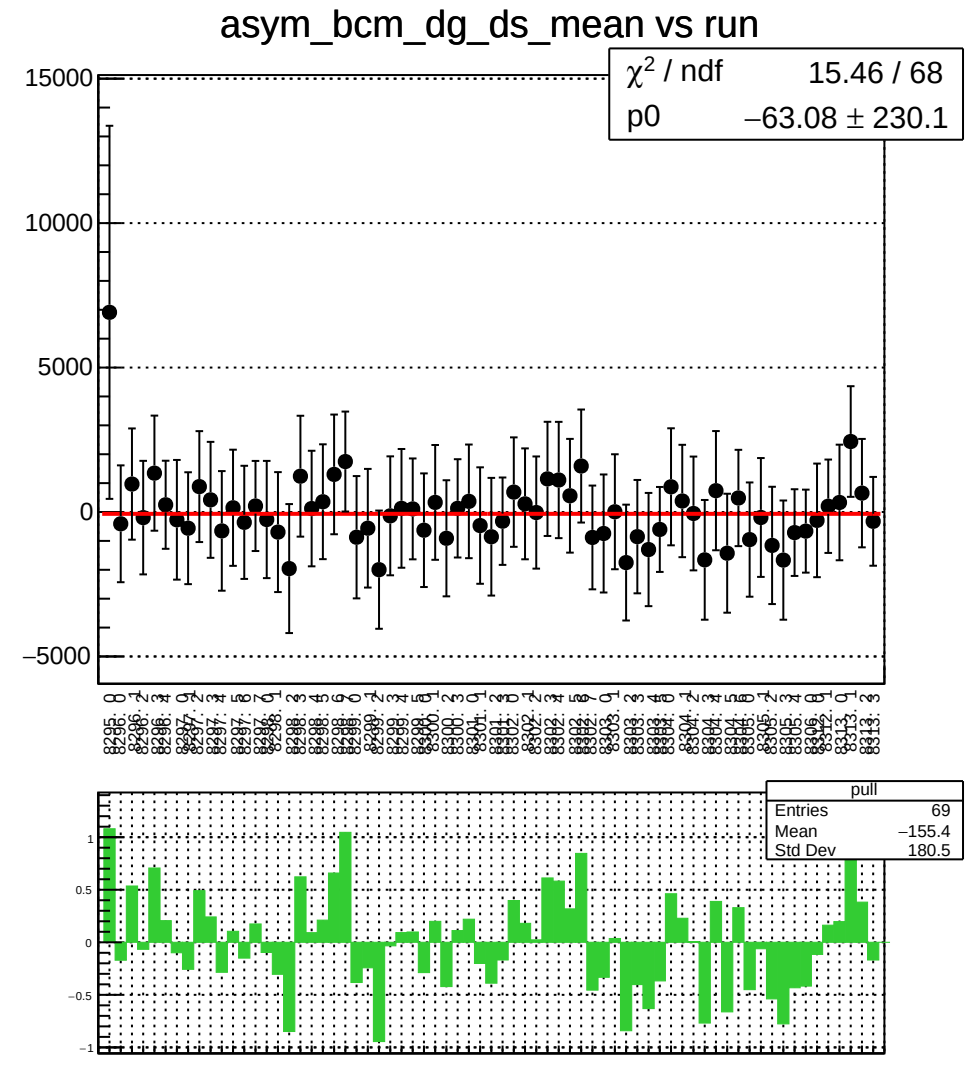

pull1D
Entries 69
Mean 0.007472
Std Dev 0.4093

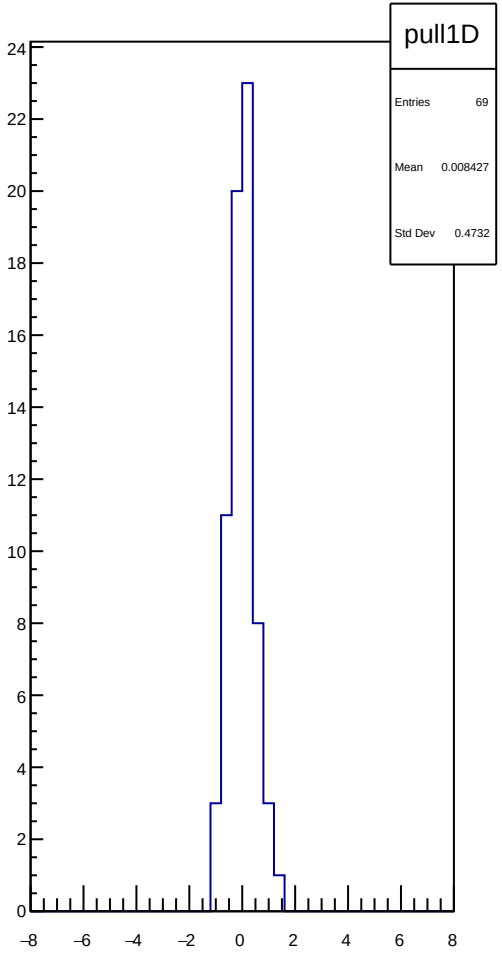

asym_bcm_an_us_rms vs run
χ² / ndf 1270 / 68
p0 190 ± 0.163
215
210
205
200
195
190
185
180
175

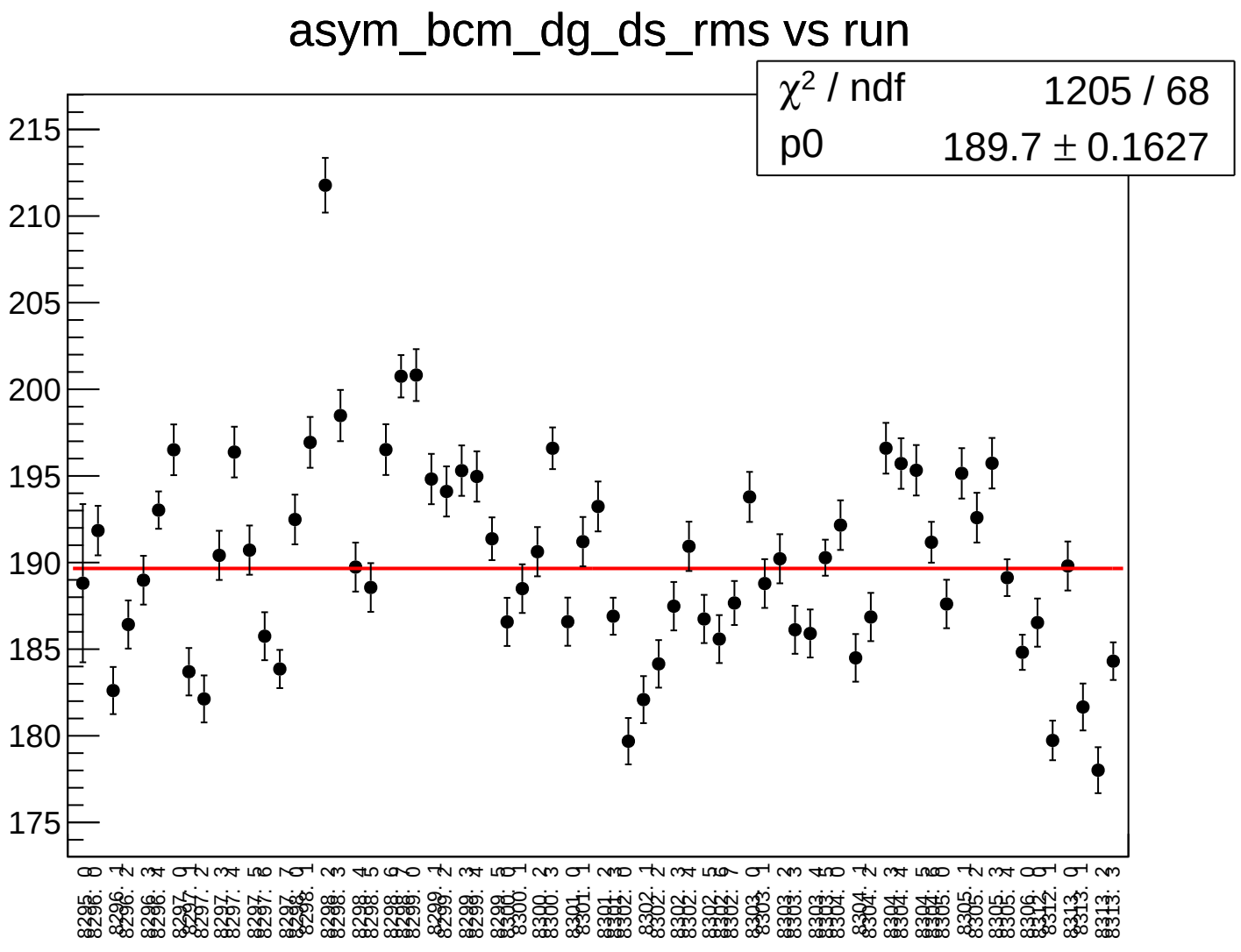

asym_bcm_dg_us_mean vs run
χ² / ndf 16.77 / 68
p0 −133.8 ± 231.9
pull
Entries 69
Mean −147.7
Std Dev 177.7

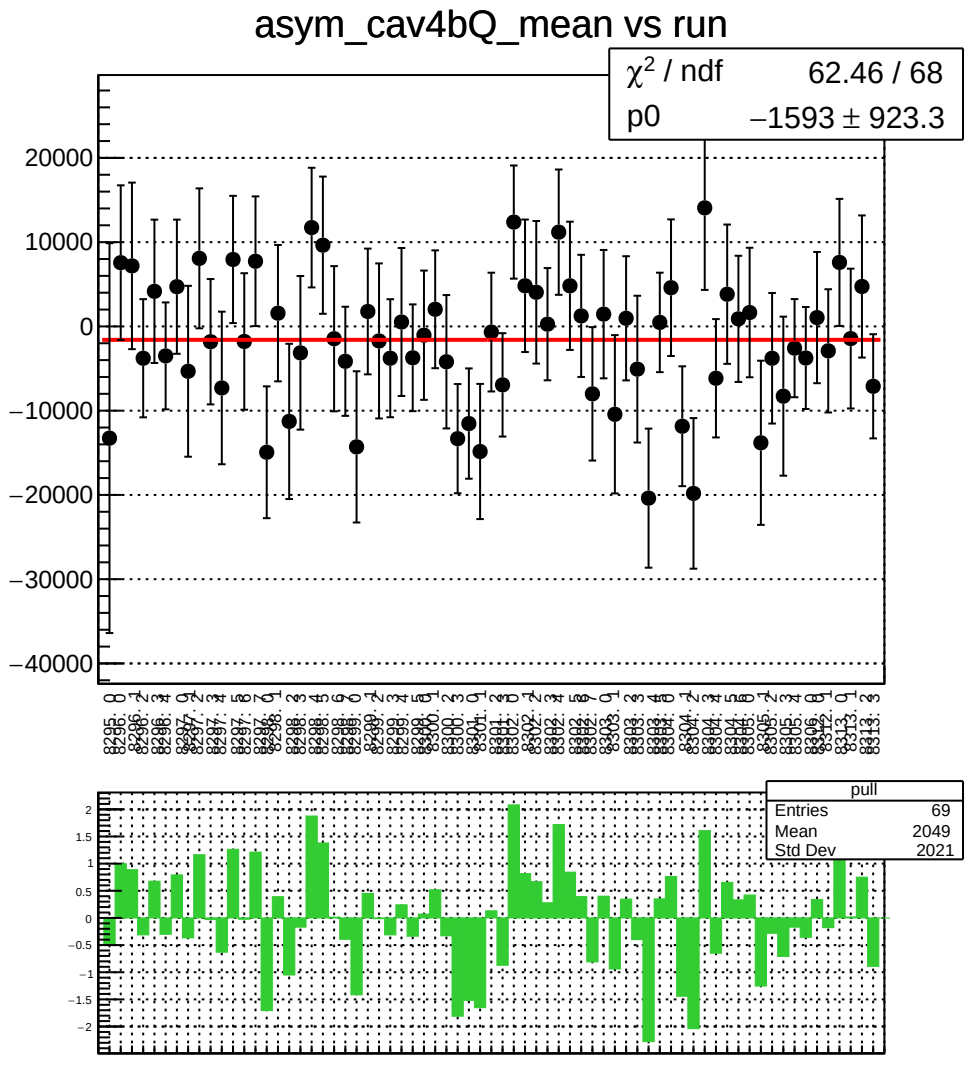

pull1D
Entries 69
Mean 0.008215
Std Dev 0.493

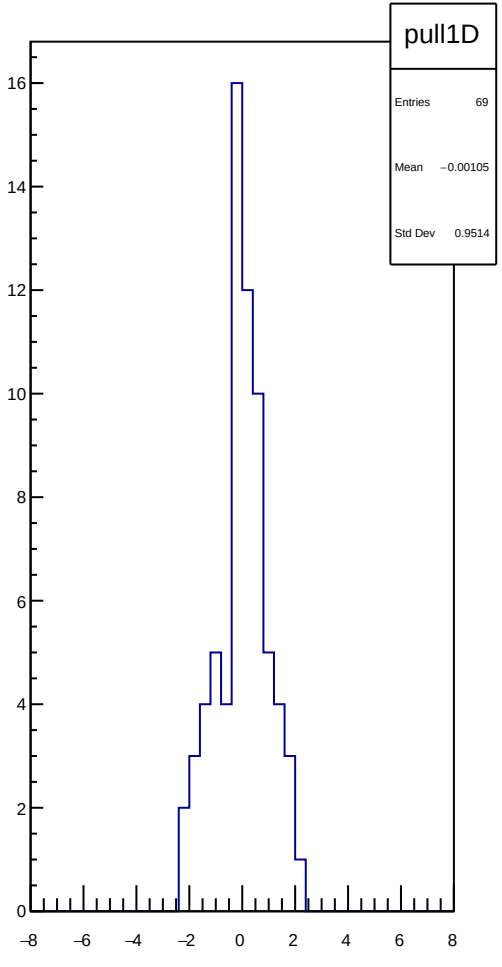

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1172 / 68
p0 191.1 ± 0.164
215
210
205
200
195
190
185
180

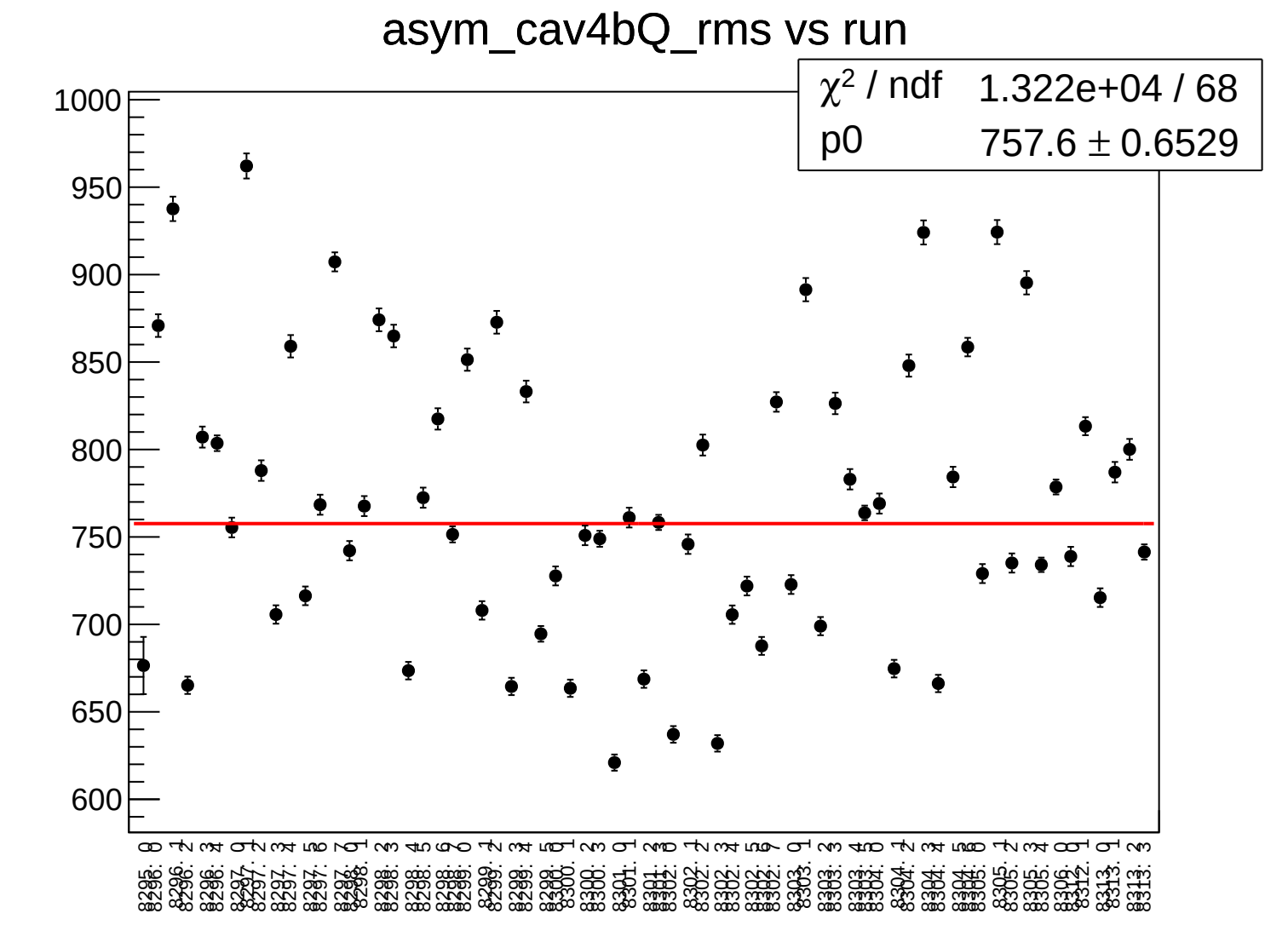

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.46 / 68
p0 −63.08 ± 230.1
15000
10000
5000
0
−5000
pull
Entries 69
Mean −155.4
Std Dev 180.5
1
0.5
0
−0.5
−1

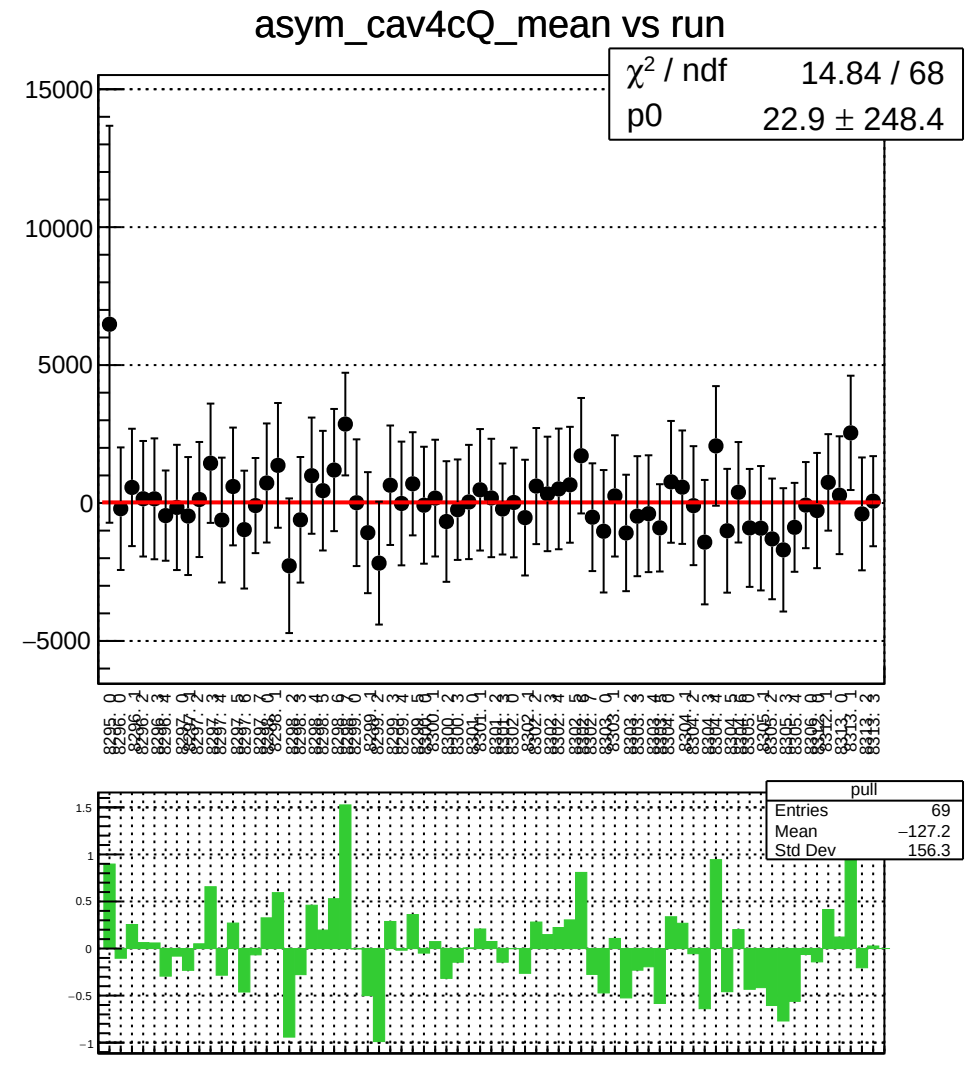

pull1D
Entries 69
Mean 0.008427
Std Dev 0.4732
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

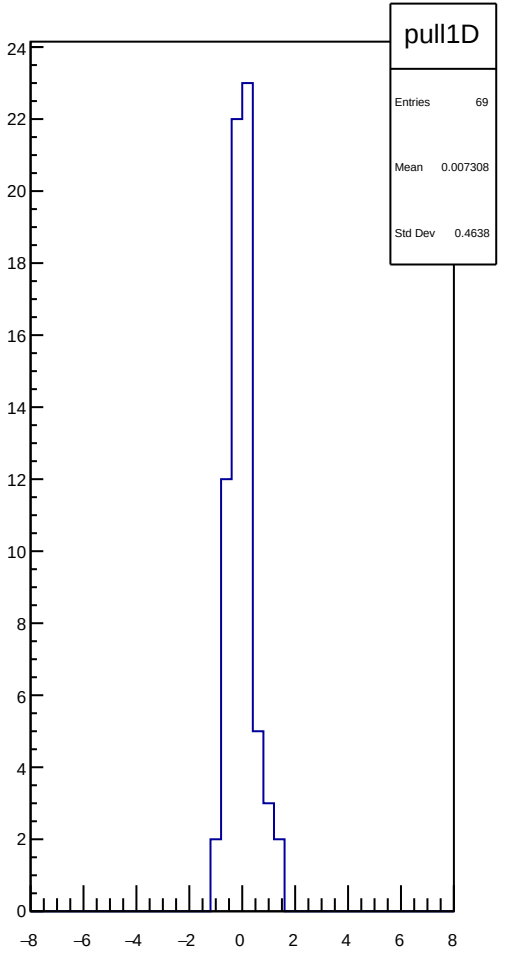

asym_bcm_dg_ds_rms vs run
χ² / ndf 1205 / 68
p0 189.7 ± 0.1627
215
210
205
200
195
190
185
180
175

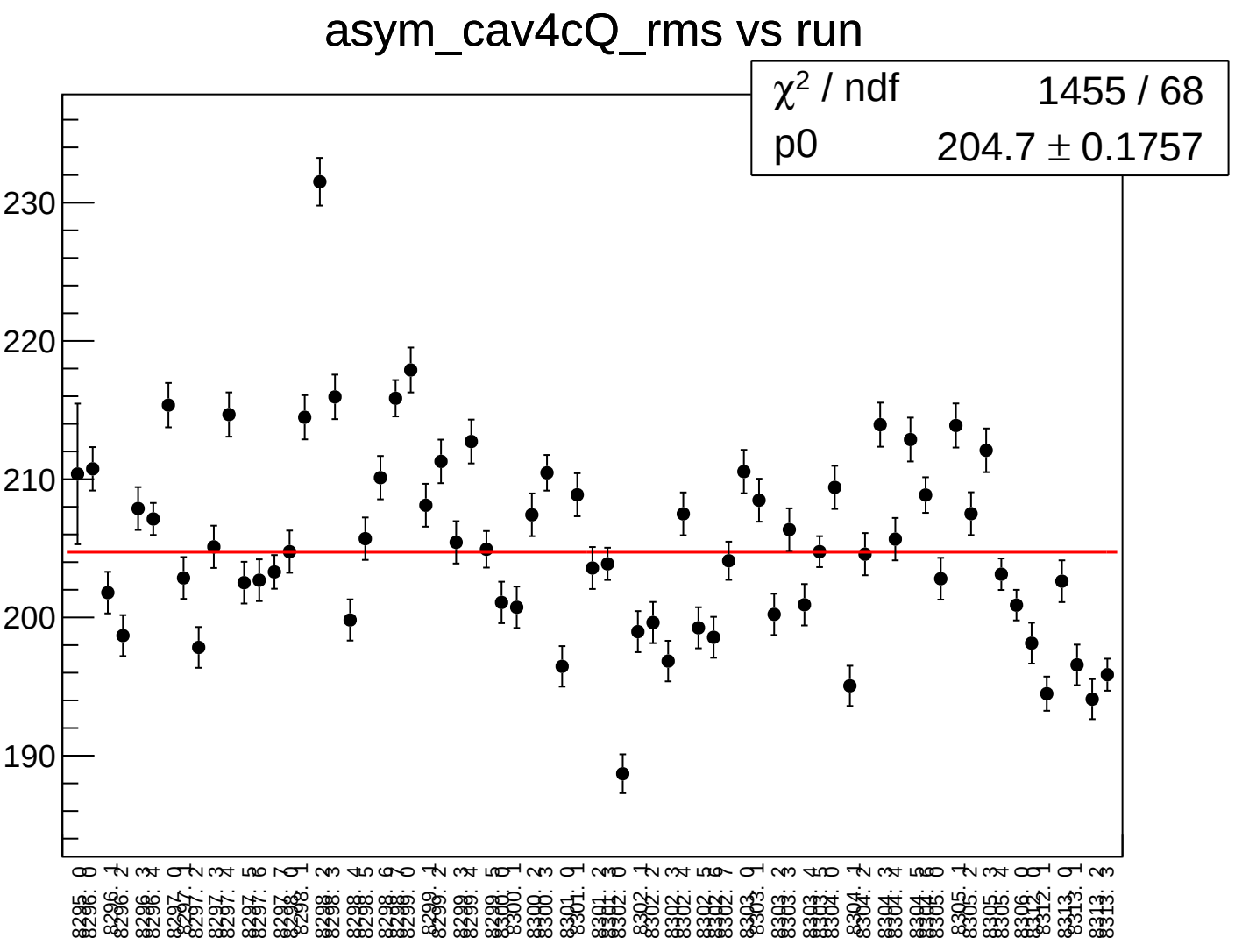

asym_cav4bQ_mean vs run
χ² / ndf 62.46 / 68
p0 −1593 ± 923.3
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 69
Mean 2049
Std Dev 2021
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

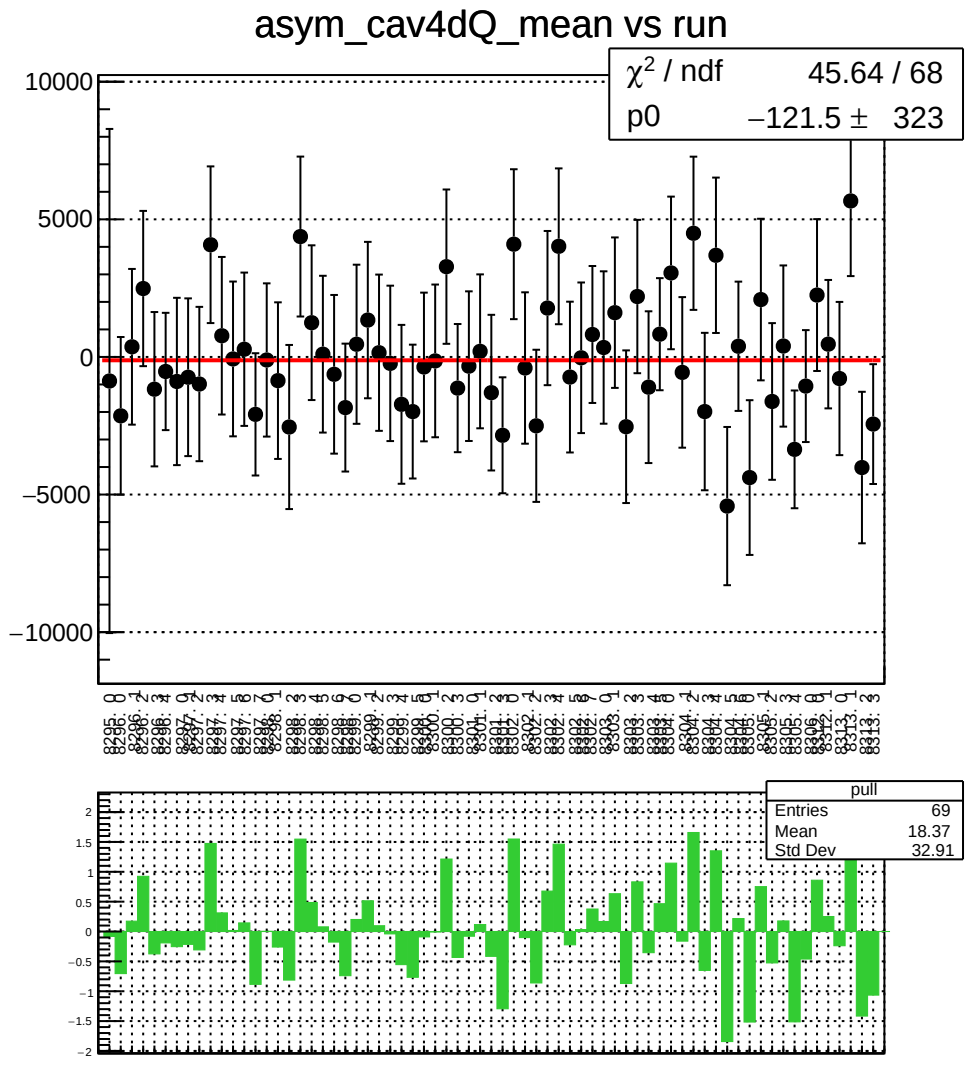

pull1D
Entries 69
Mean −0.00105
Std Dev 0.9514
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

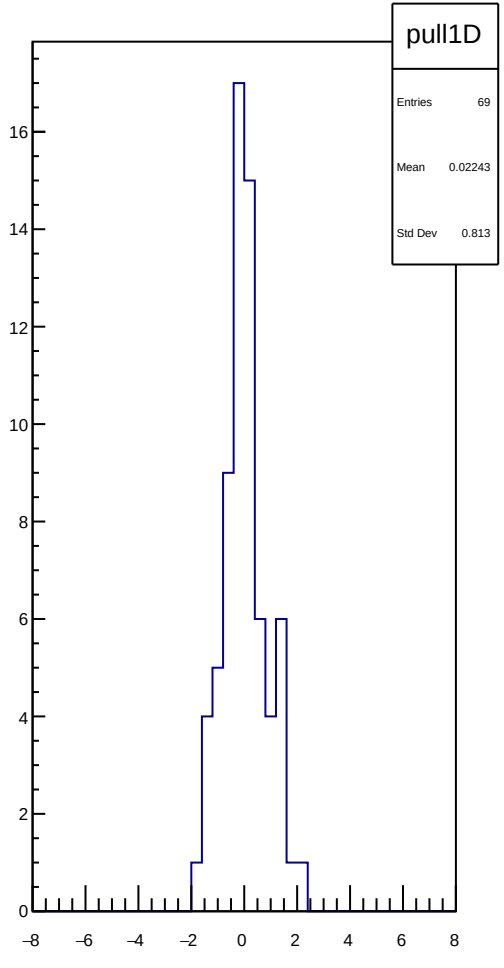

asym_cav4bQ_rms vs run
χ² / ndf 1.322e+04 / 68
p0 757.6 ± 0.6529
1000
950
900
850
800
750
700
650
600

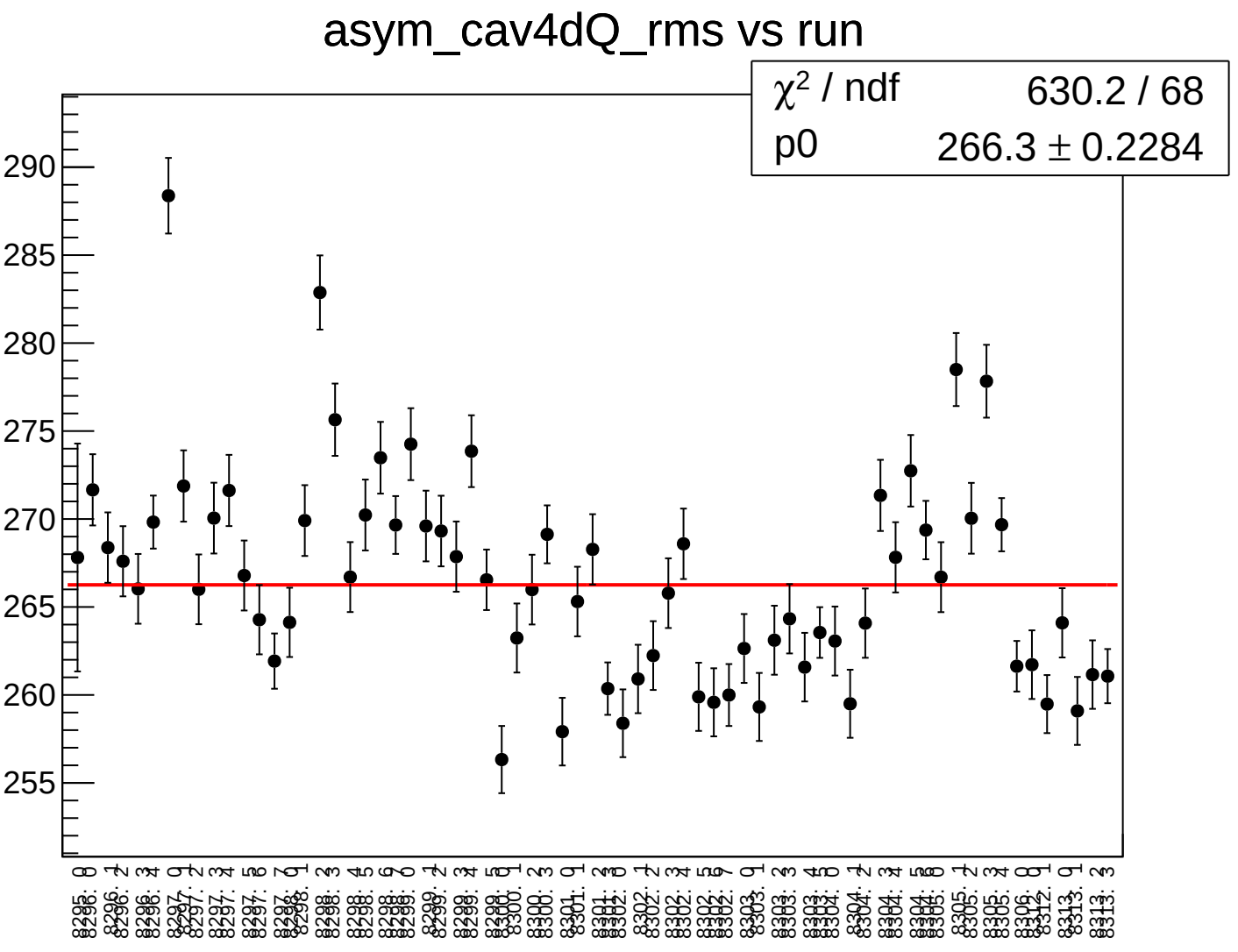

asym_cav4cQ_mean vs run
χ² / ndf 14.84 / 68
p0 22.9 ± 248.4
15000
10000
5000
0
−5000
pull
Entries 69
Mean −127.2
Std Dev 156.3
1.5
1
0.5
0
−0.5
−1

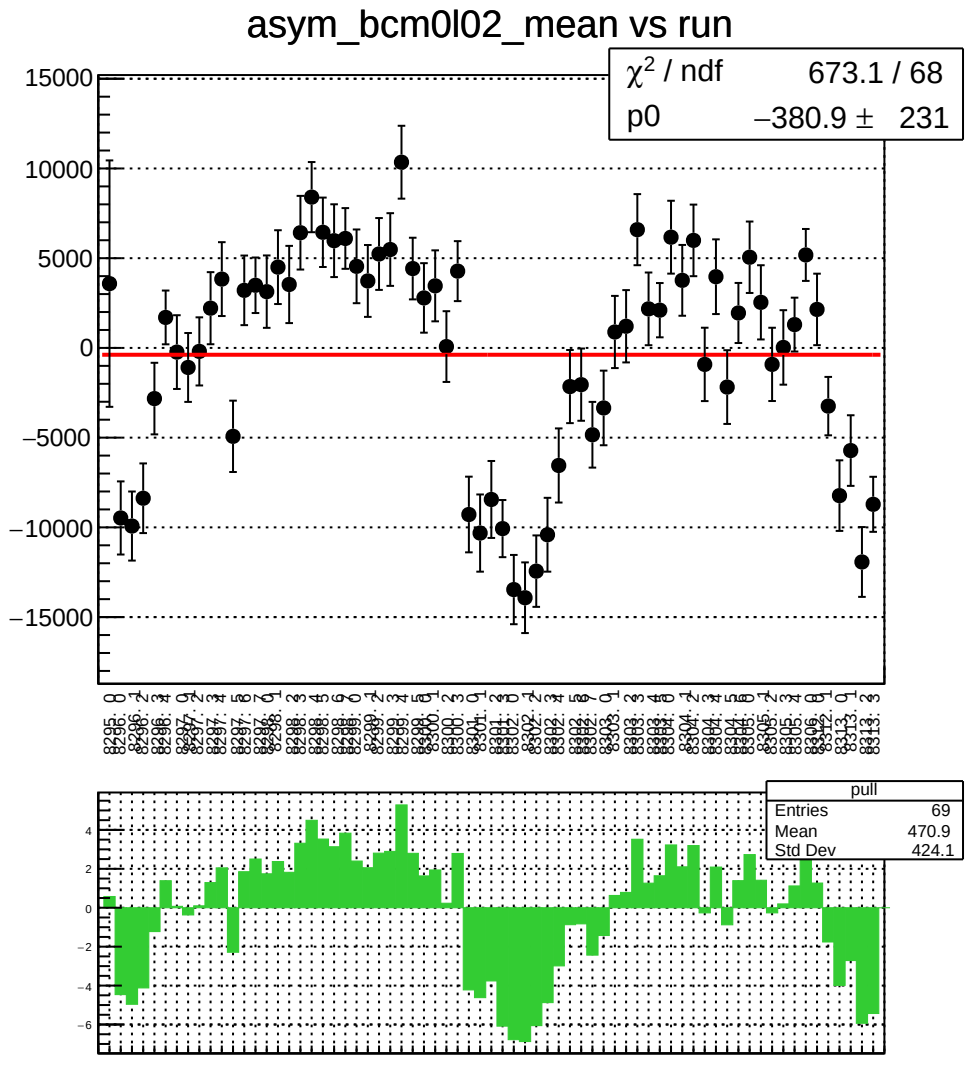

pull1D
Entries 69
Mean 0.007308
Std Dev 0.4638
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

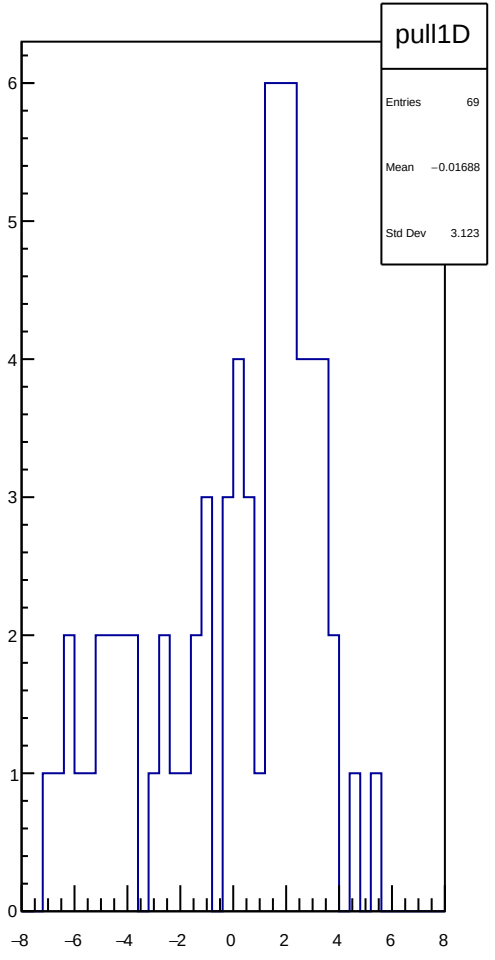

asym_cav4cQ_rms vs run
χ² / ndf 1455 / 68
p0 204.7 ± 0.1757
230
220
210
200
190

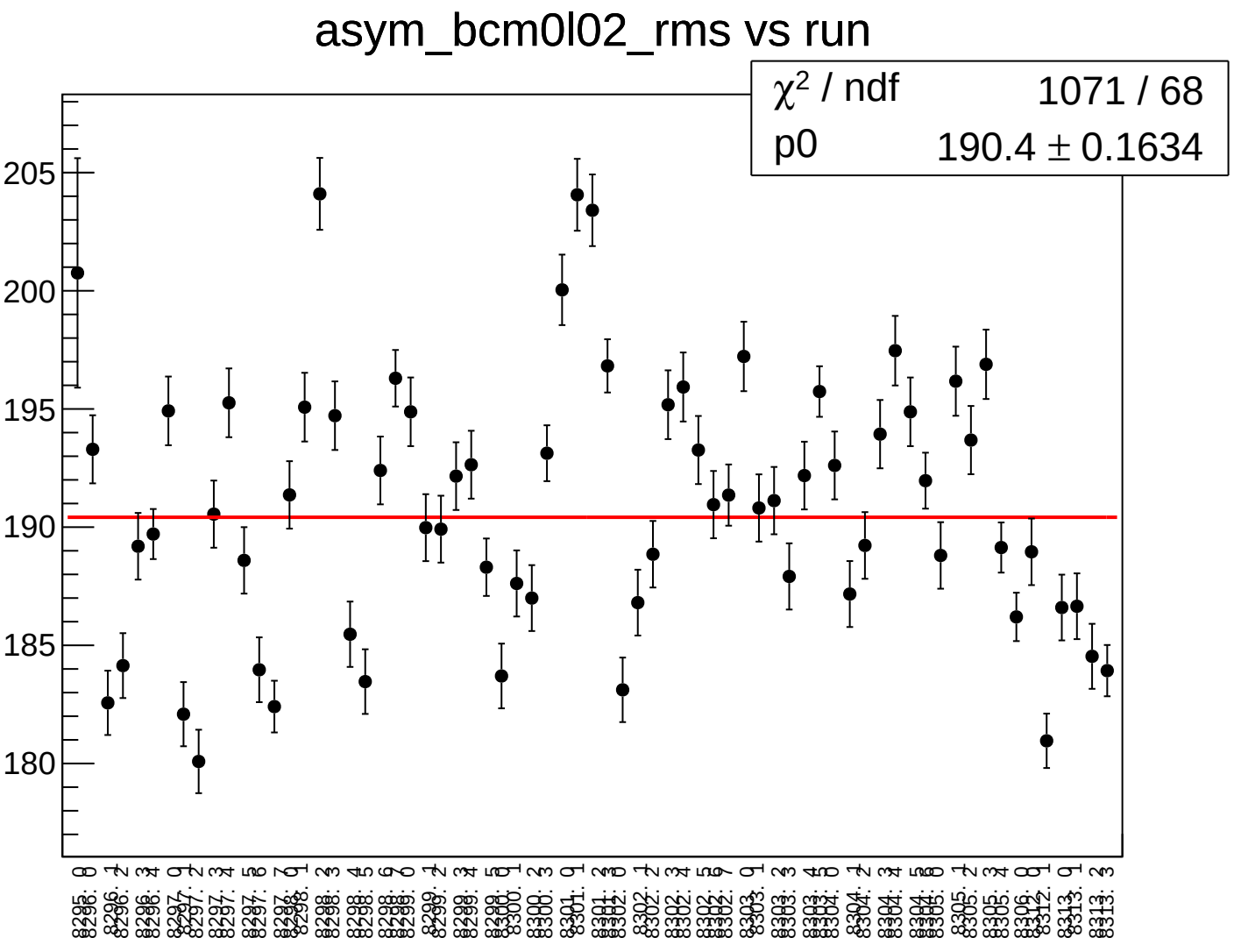

asym_cav4dQ_mean vs run
χ² / ndf 45.64 / 68
p0 −121.5 ± 323
10000
5000
0
−5000
−10000
pull
Entries 69
Mean 18.37
Std Dev 32.91
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

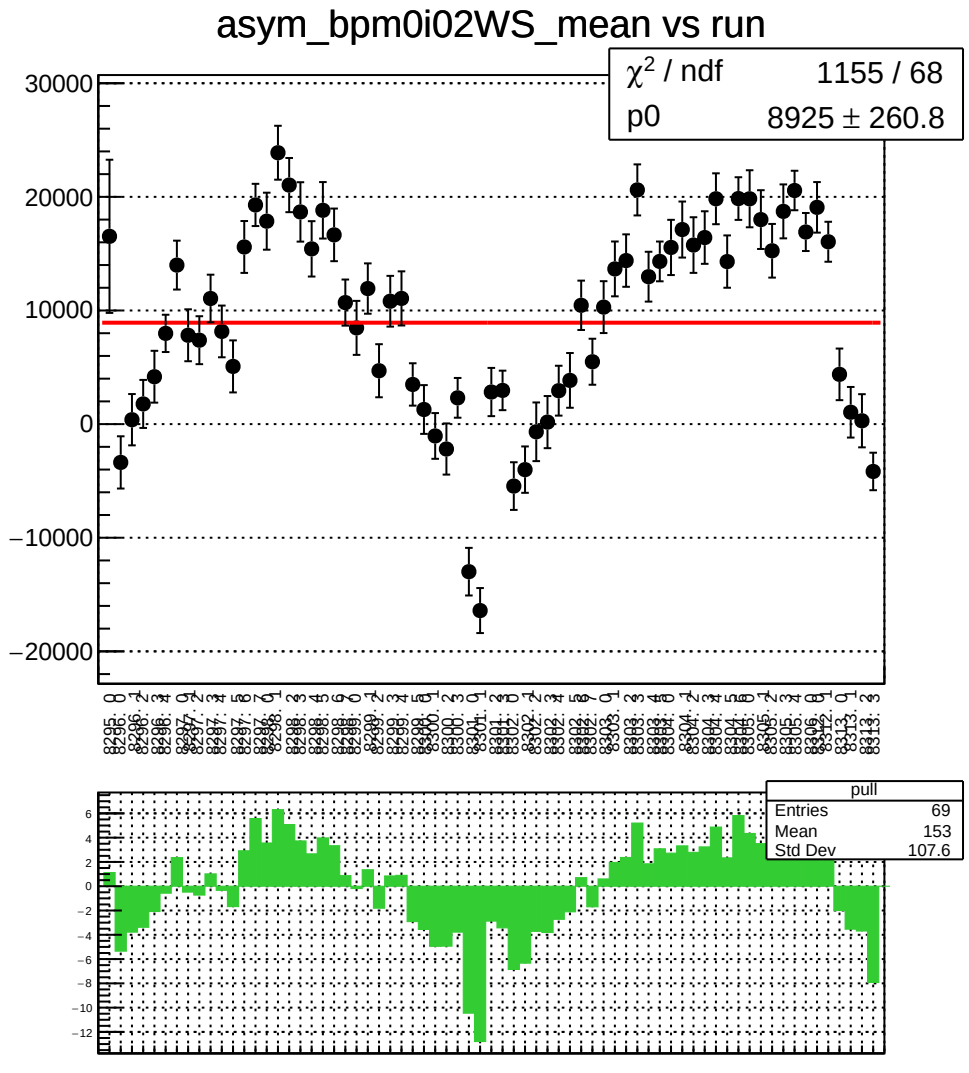

pull1D
Entries 69
Mean 0.02243
Std Dev 0.813
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

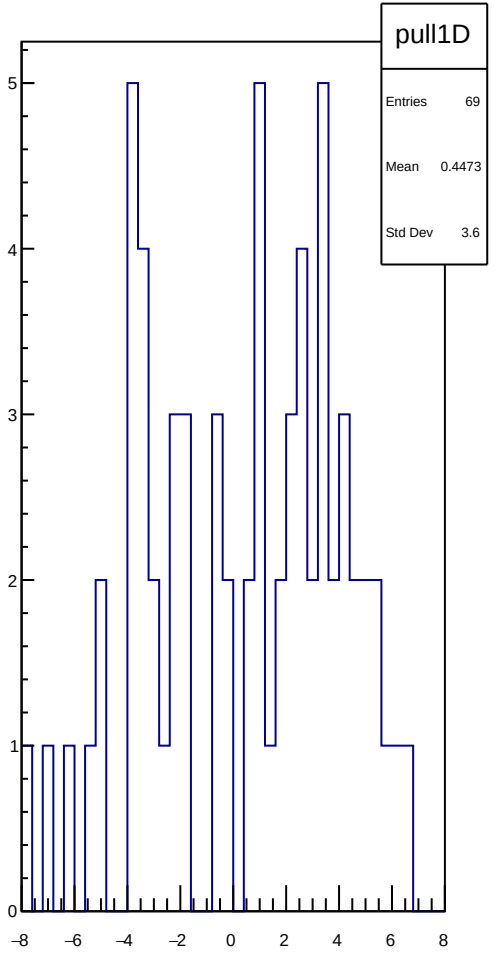

asym_cav4dQ_rms vs run
χ² / ndf 630.2 / 68
p0 266.3 ± 0.2284
290
285
280
275
270
265
260
255

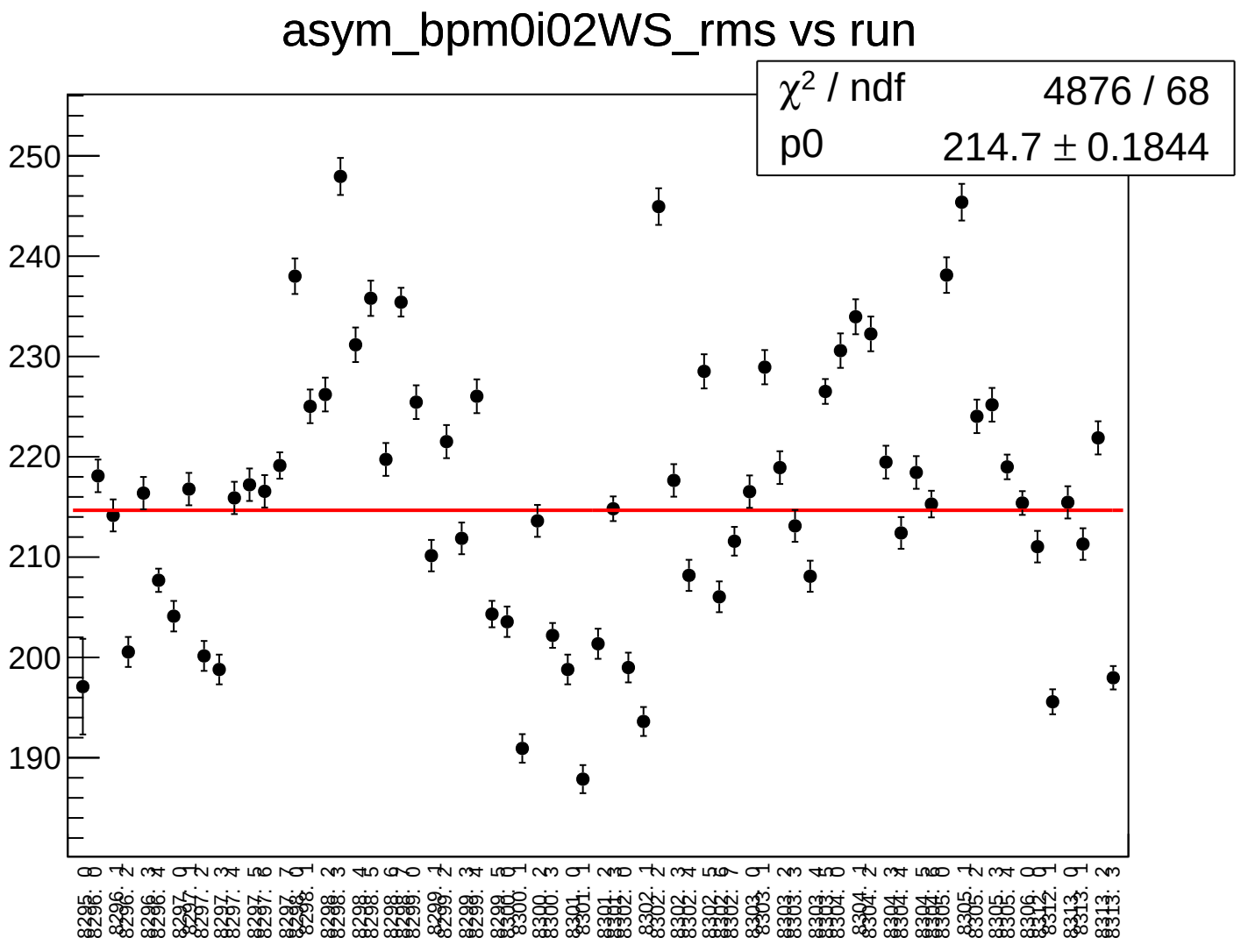

asym_bcm0l02_mean vs run
χ² / ndf 673.1 / 68
p0 −380.9 ± 231
pull
Entries 69
Mean 470.9
Std Dev 424.1

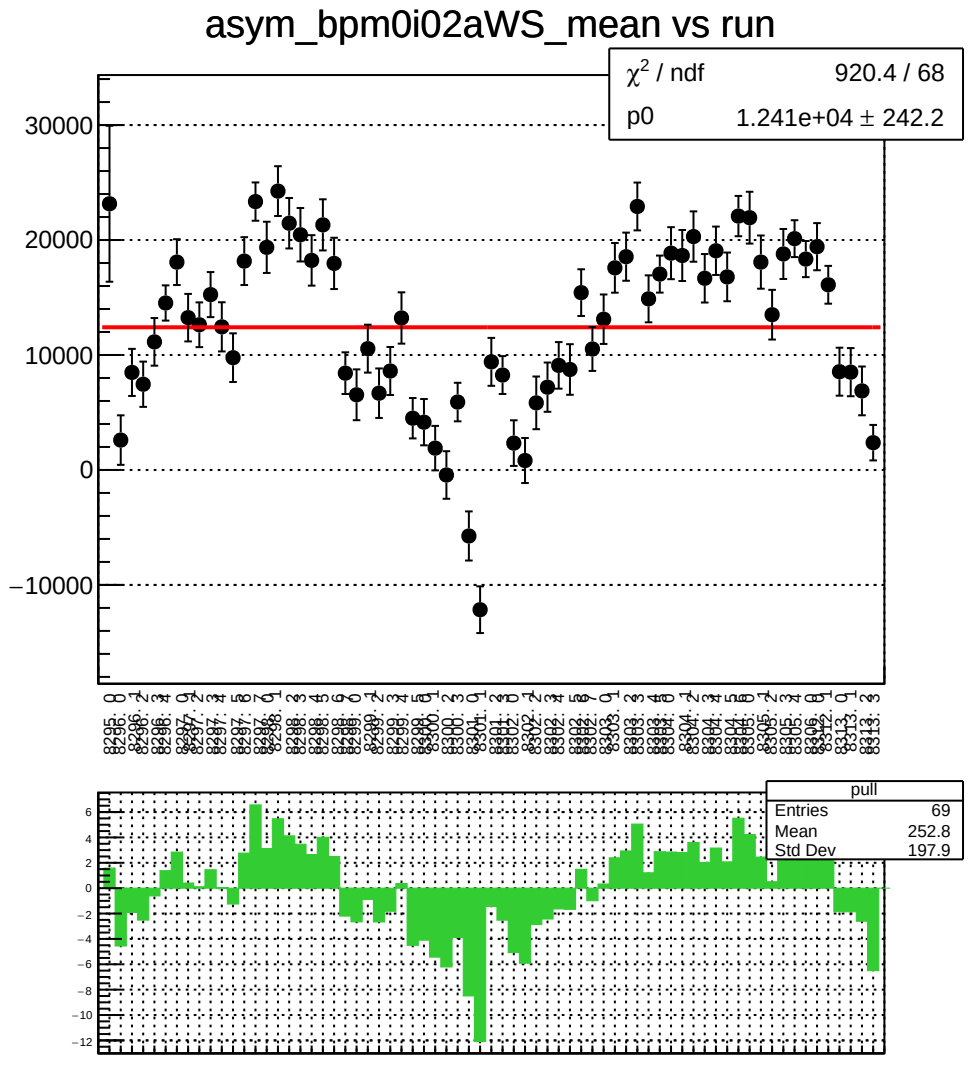

pull1D
Entries 69
Mean −0.01688
Std Dev 3.123

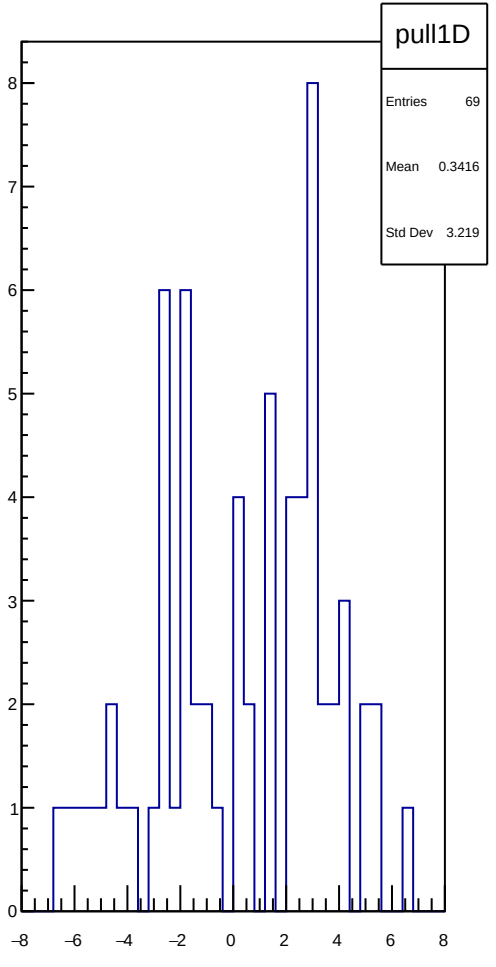

asym_bcm0l02_rms vs run
χ² / ndf 1071 / 68
p0 190.4 ± 0.1634
205
200
195
190
185
180

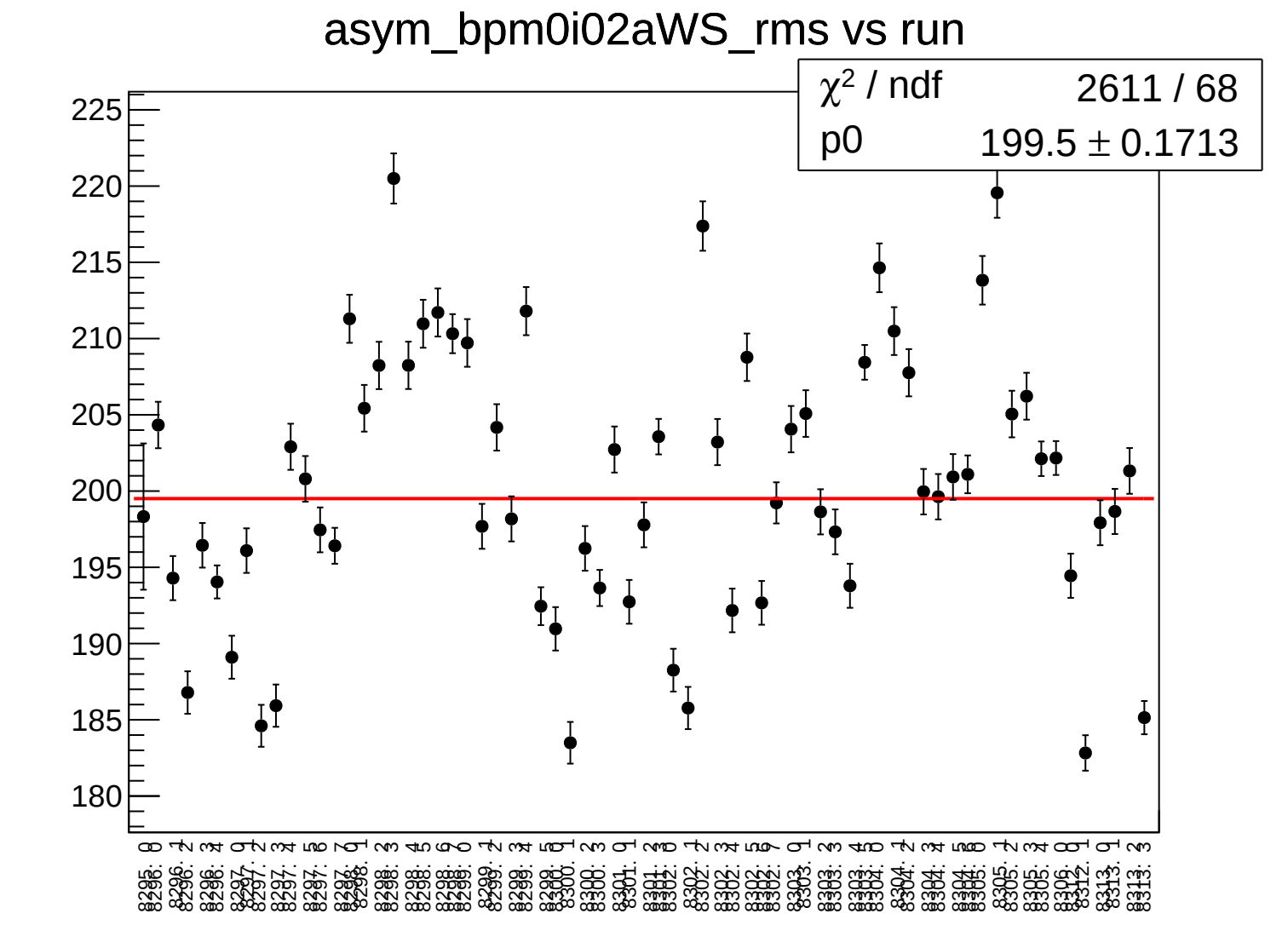

asym_bpm0i02WS_mean vs run
χ² / ndf 1155 / 68
p0 8925 ± 260.8
pull
Entries 69
Mean 153
Std Dev 107.6

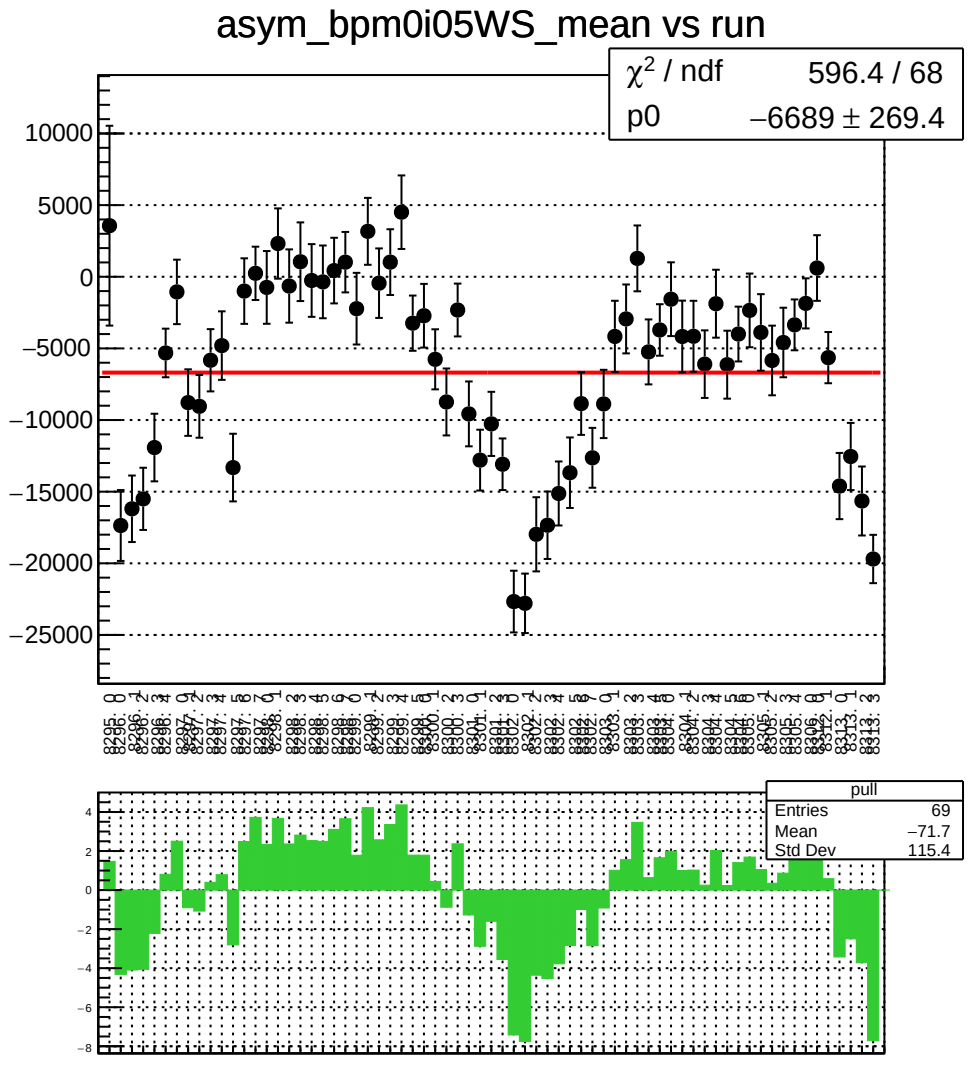

pull1D
Entries 69
Mean 0.4473
Std Dev 3.6

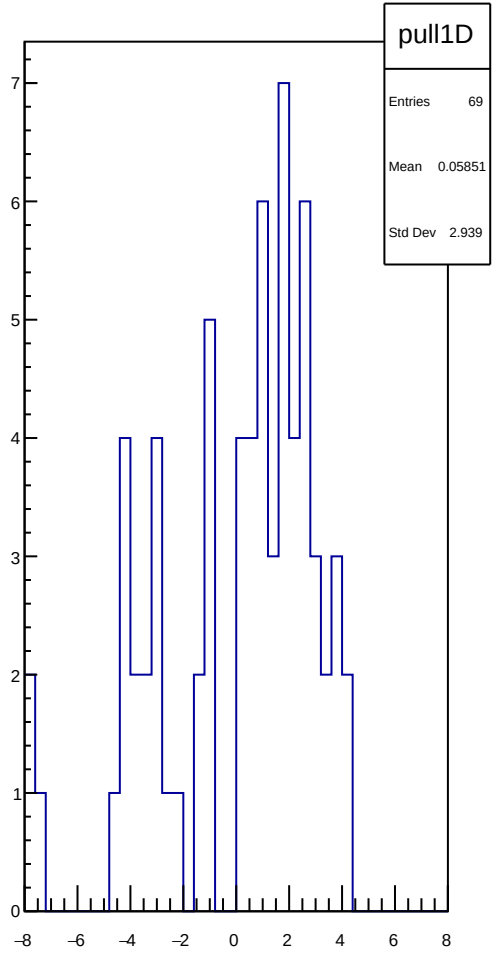

asym_bpm0i02WS_rms vs run
χ² / ndf 4876 / 68
p0 214.7 ± 0.1844
250
240
230
220
210
200
190

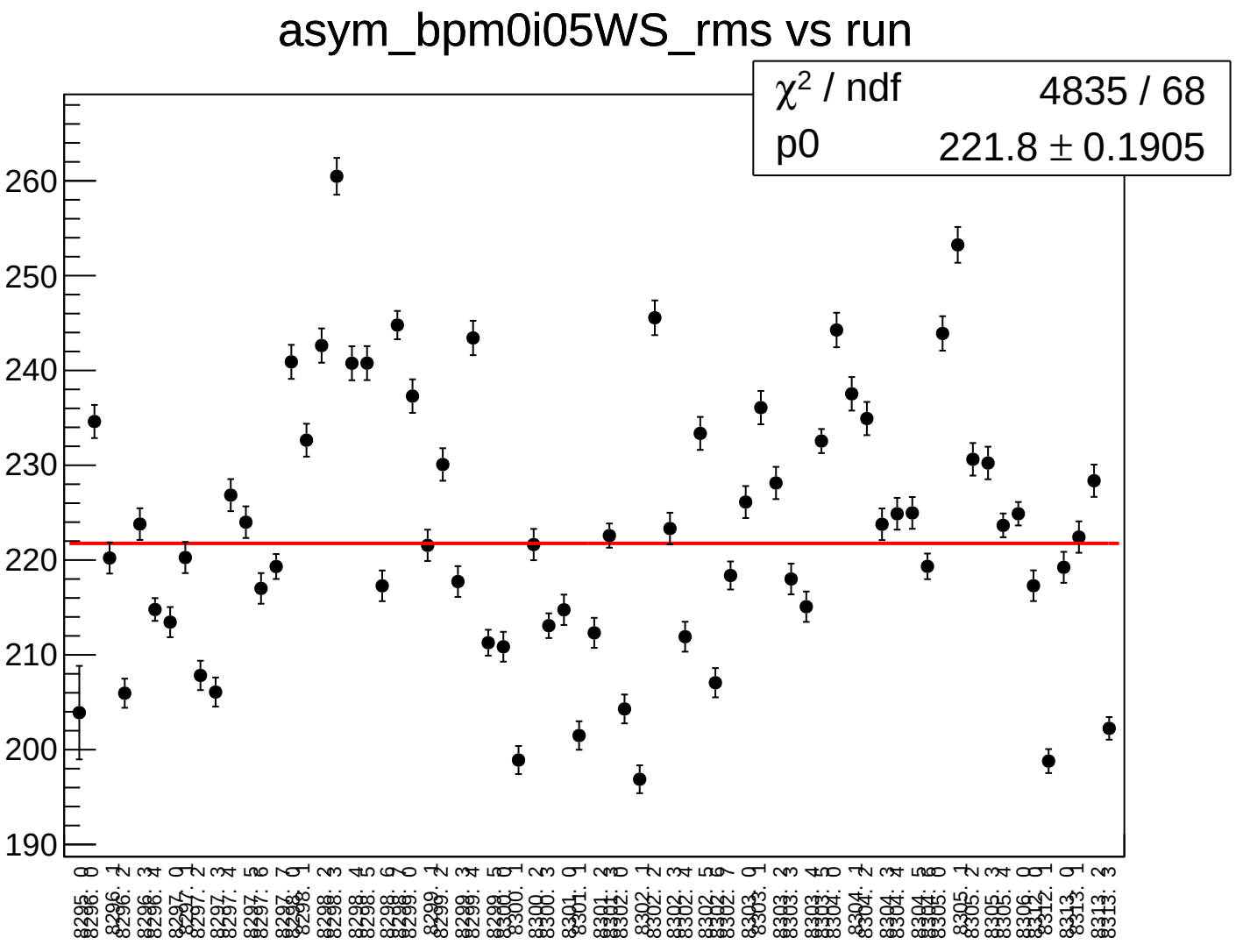

asym_bpm0i02aWS_mean vs run
χ² / ndf 920.4 / 68
p0 1.241e+04 ± 242.2
30000
20000
10000
0
−10000
pull
Entries 69
Mean 252.8
Std Dev 197.9
6
4
2
0
−2
−4
−6
−8
−10
−12

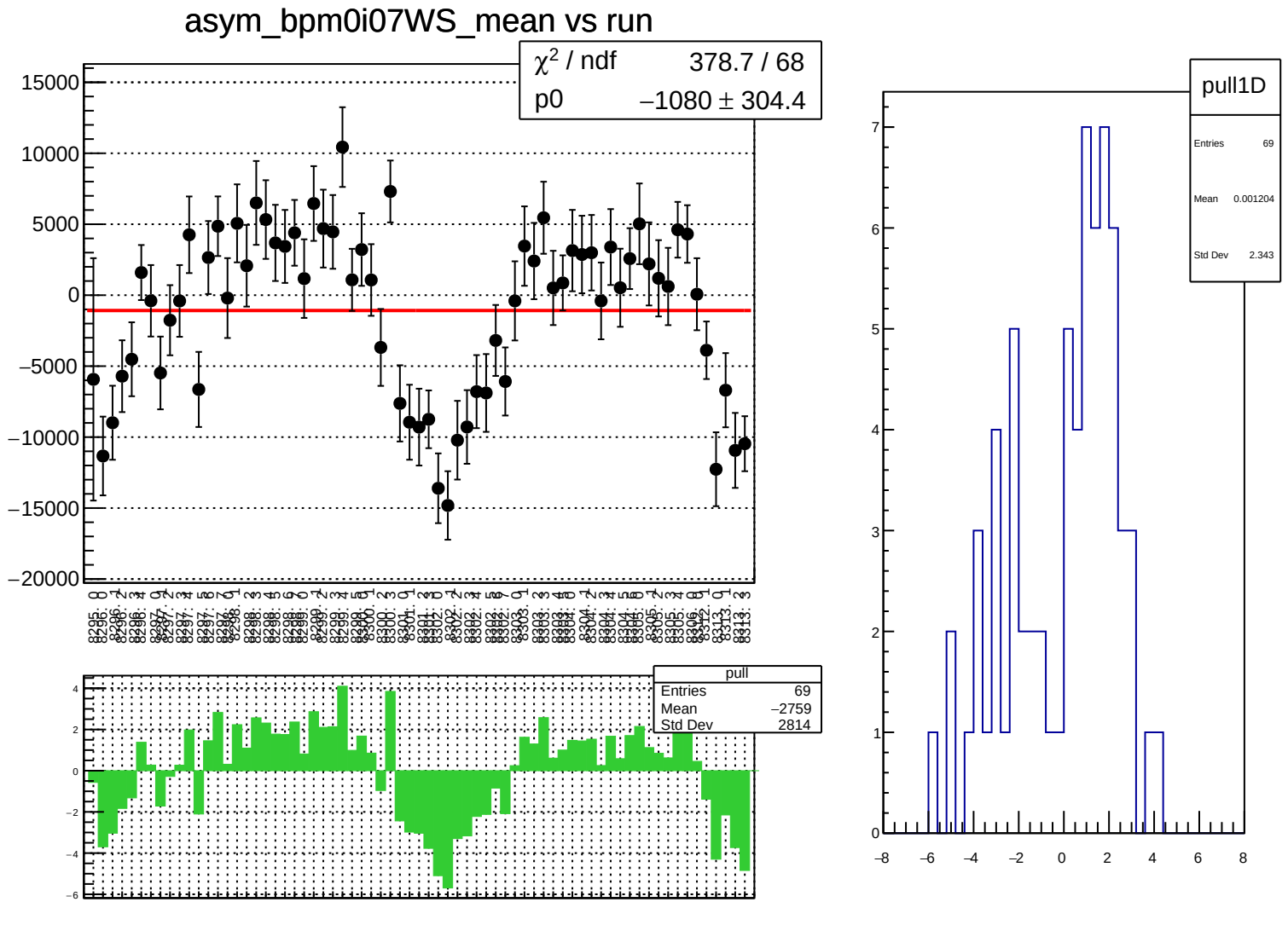

pull1D
Entries 69
Mean 0.3416
Std Dev 3.219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

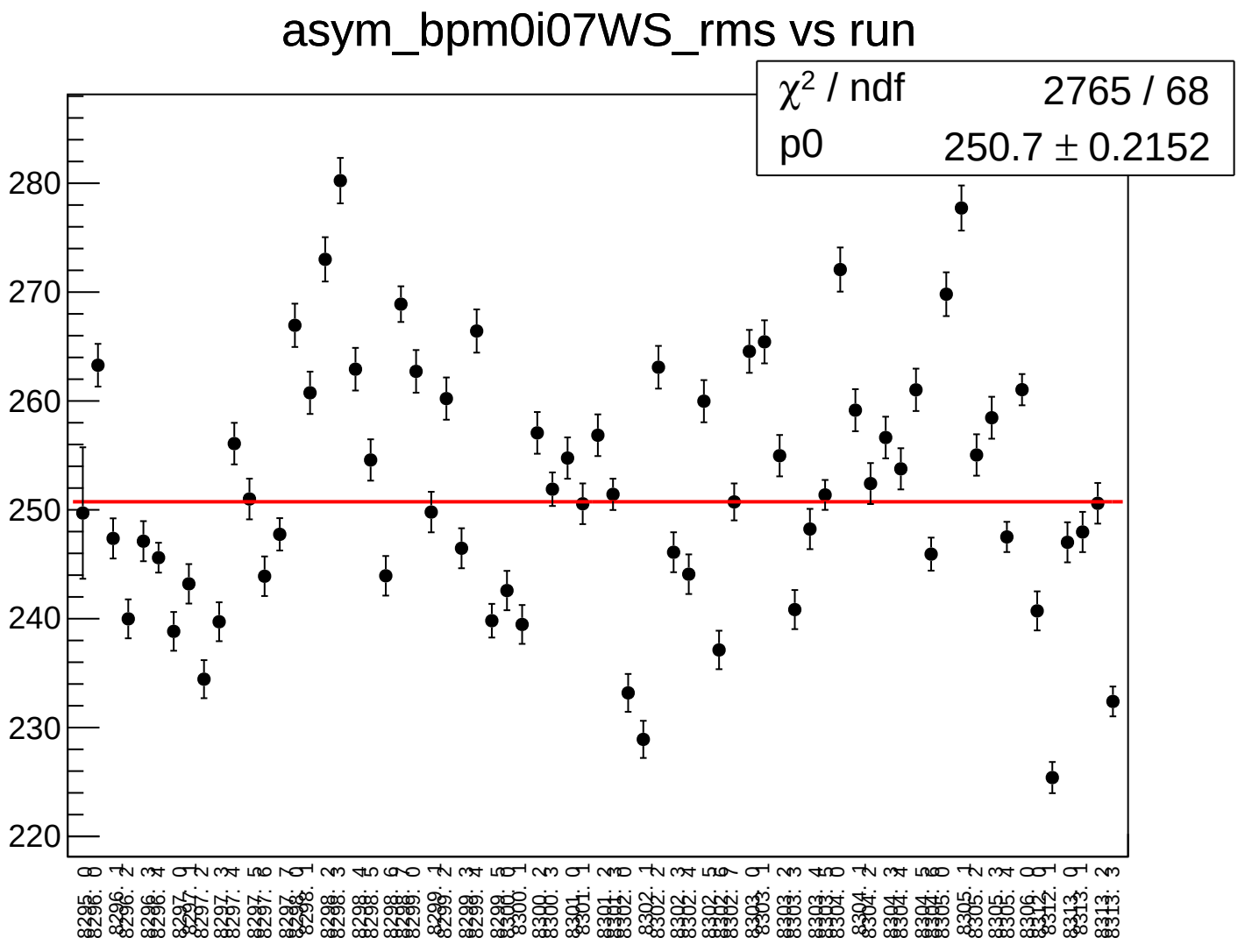

asym_bpm0i02aWS_rms vs run
χ² / ndf 2611 / 68
p0 199.5 ± 0.1713
225
220
215
210
205
200
195
190
185
180

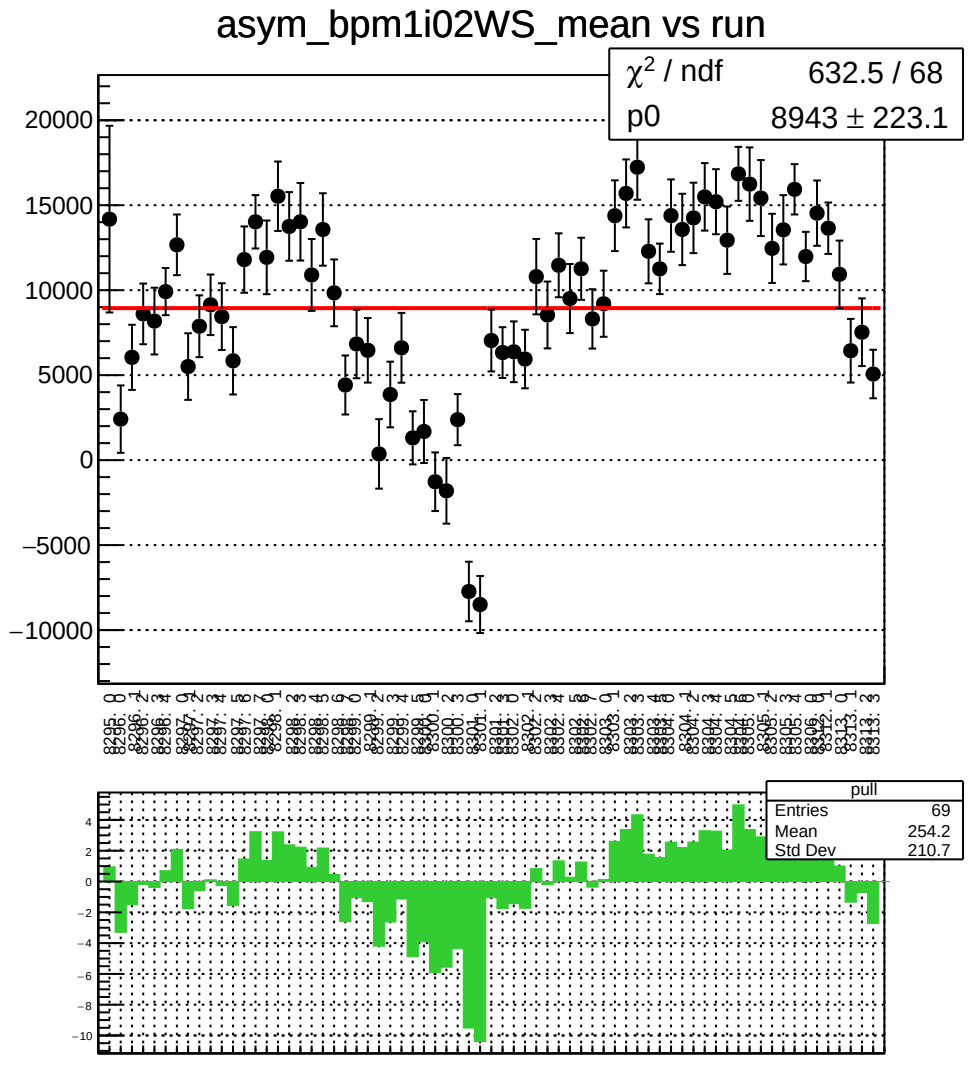

asym_bpm0i05WS_mean vs run
χ² / ndf 596.4 / 68
p0 −6689 ± 269.4
pull
Entries 69
Mean −71.7
Std Dev 115.4

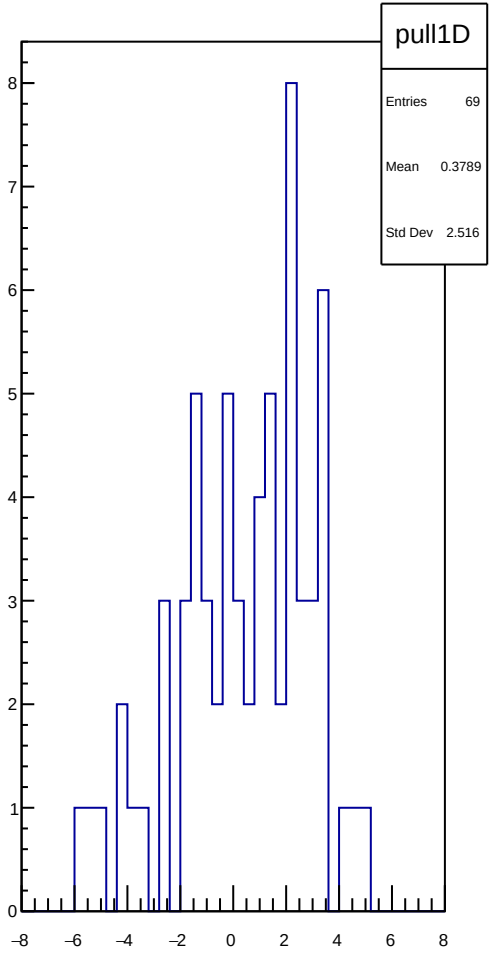

pull1D
Entries 69
Mean 0.05851
Std Dev 2.939

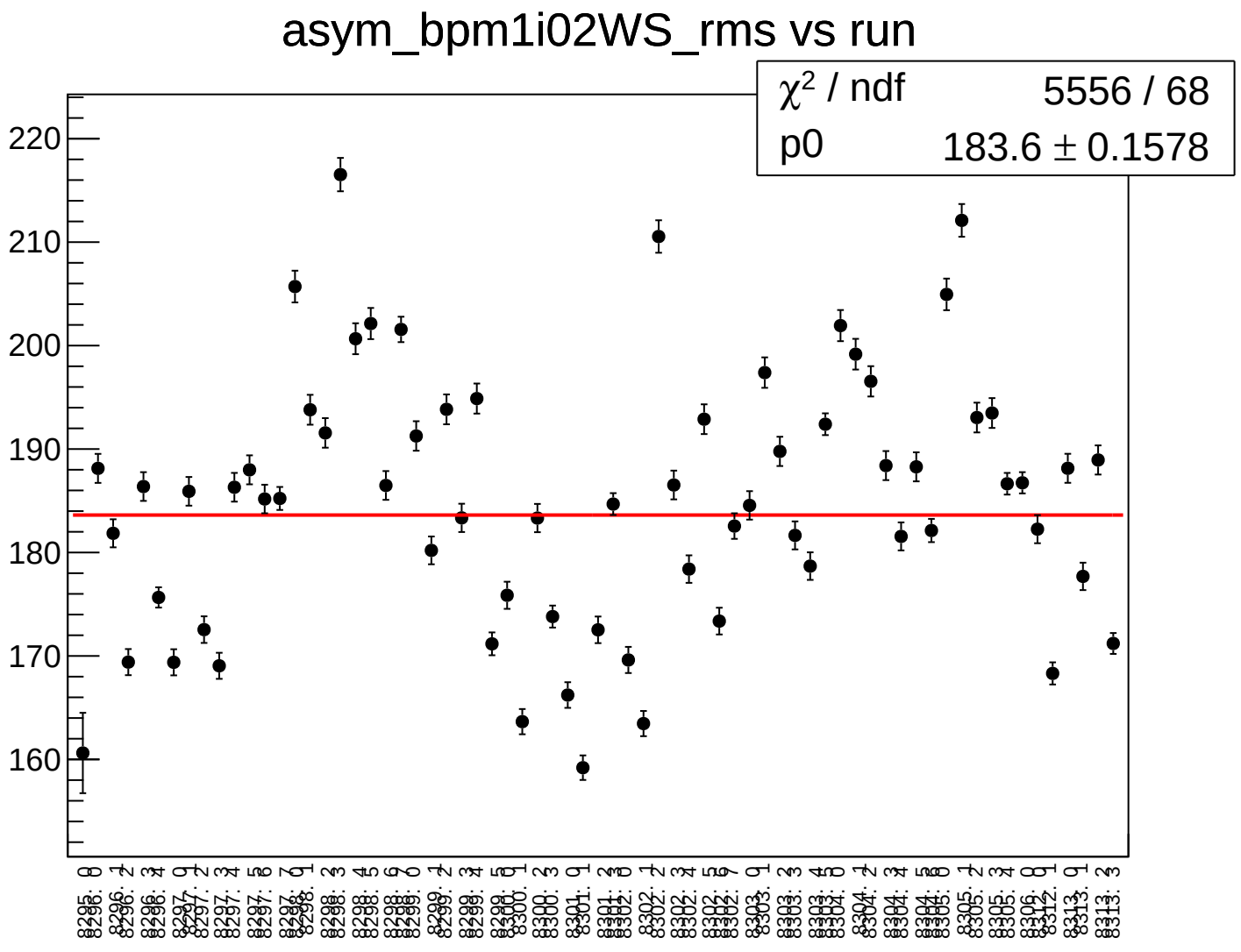

asym_bpm0i05WS_rms vs run
χ² / ndf 4835 / 68
p0 221.8 ± 0.1905
260
250
240
230
220
210
200
190

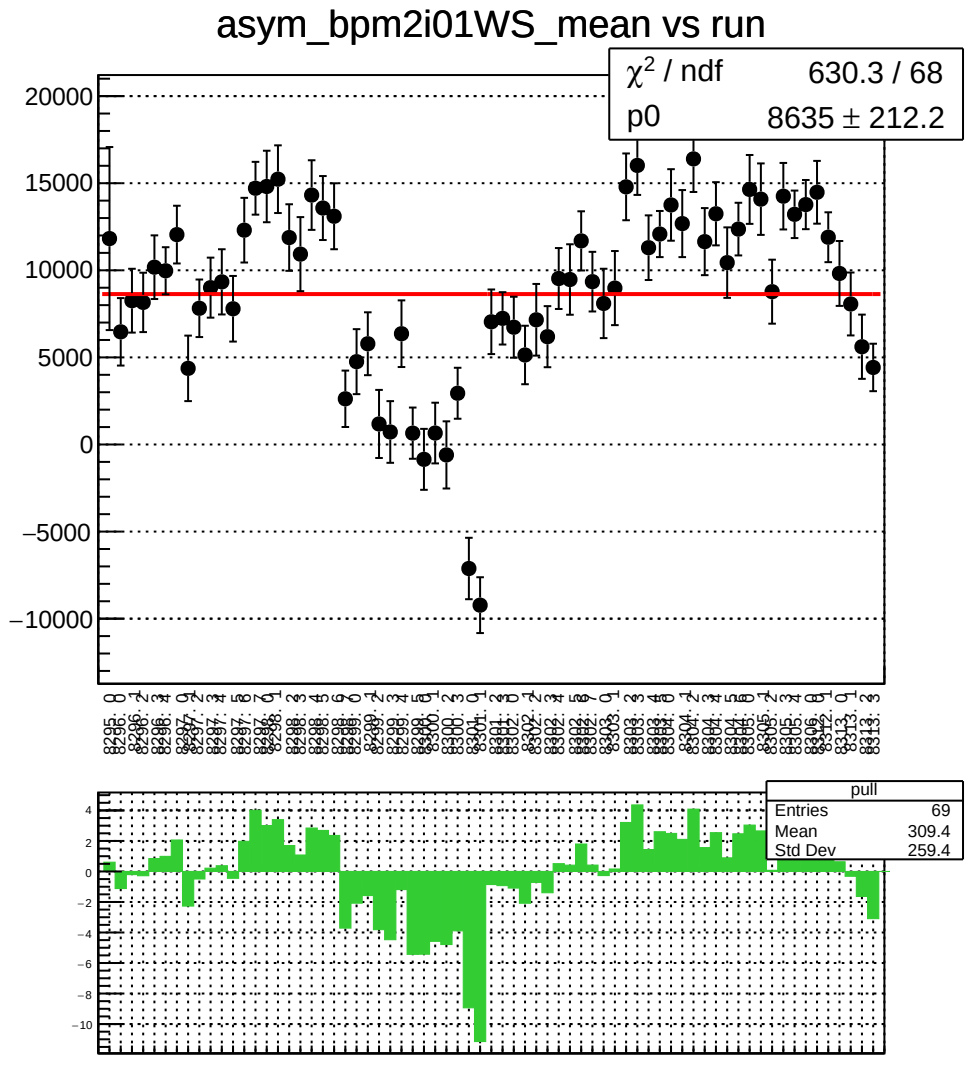

asym_bpm0i07WS_mean vs run
χ² / ndf 378.7 / 68
p0 −1080 ± 304.4
pull
Entries 69
Mean −2759
Std Dev 2814
pull1D
Entries 69
Mean 0.001204
Std Dev 2.343

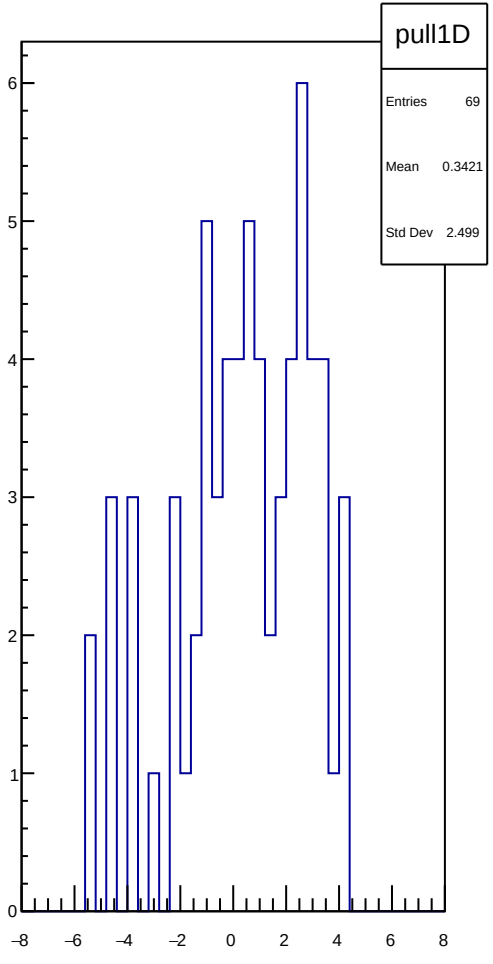

asym_bpm0i07WS_rms vs run
χ² / ndf 2765 / 68
p0 250.7 ± 0.2152
280
270
260
250
240
230
220

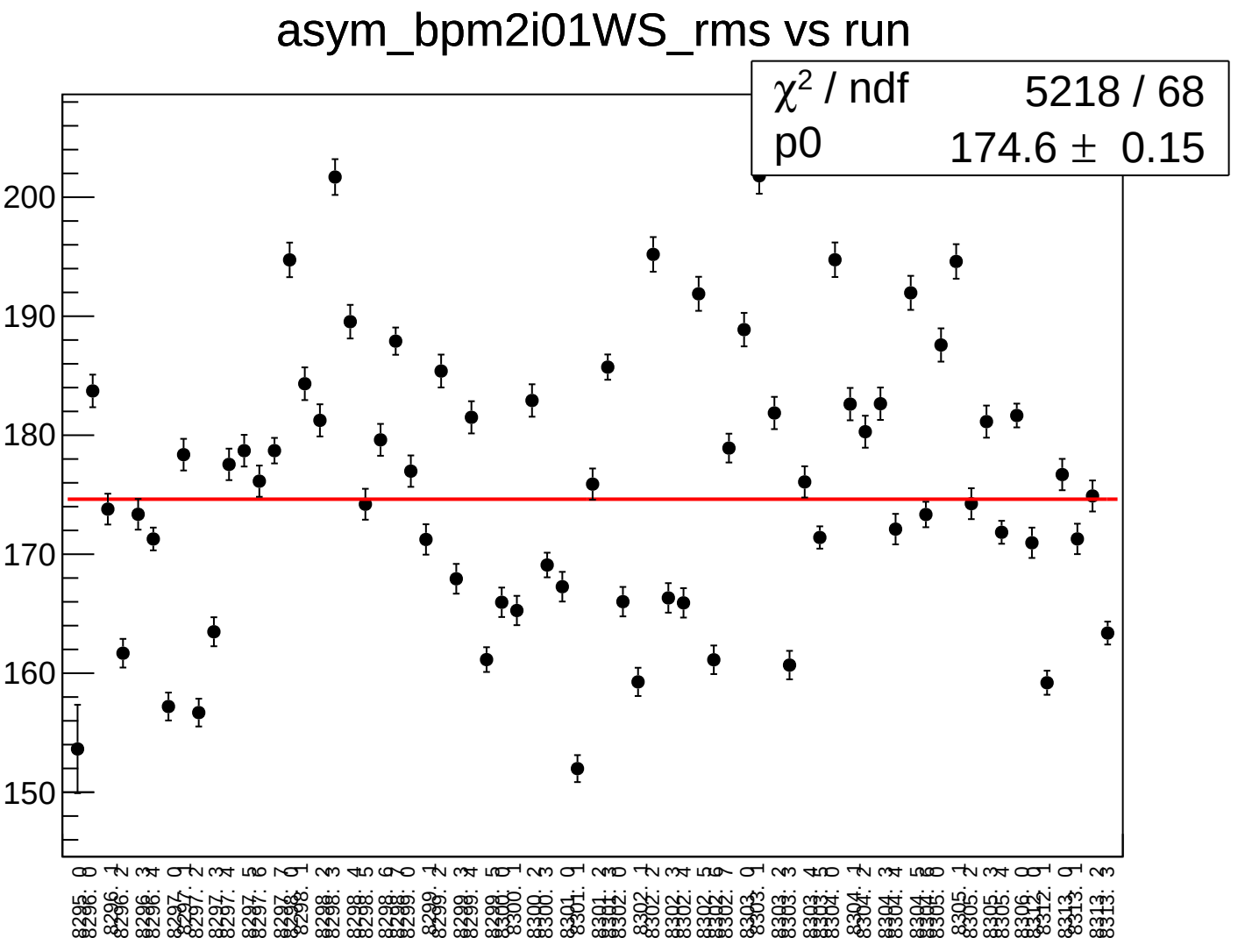

asym_bpm1i02WS_mean vs run
χ² / ndf 632.5 / 68
p0 8943 ± 223.1
pull
Entries 69
Mean 254.2
Std Dev 210.7

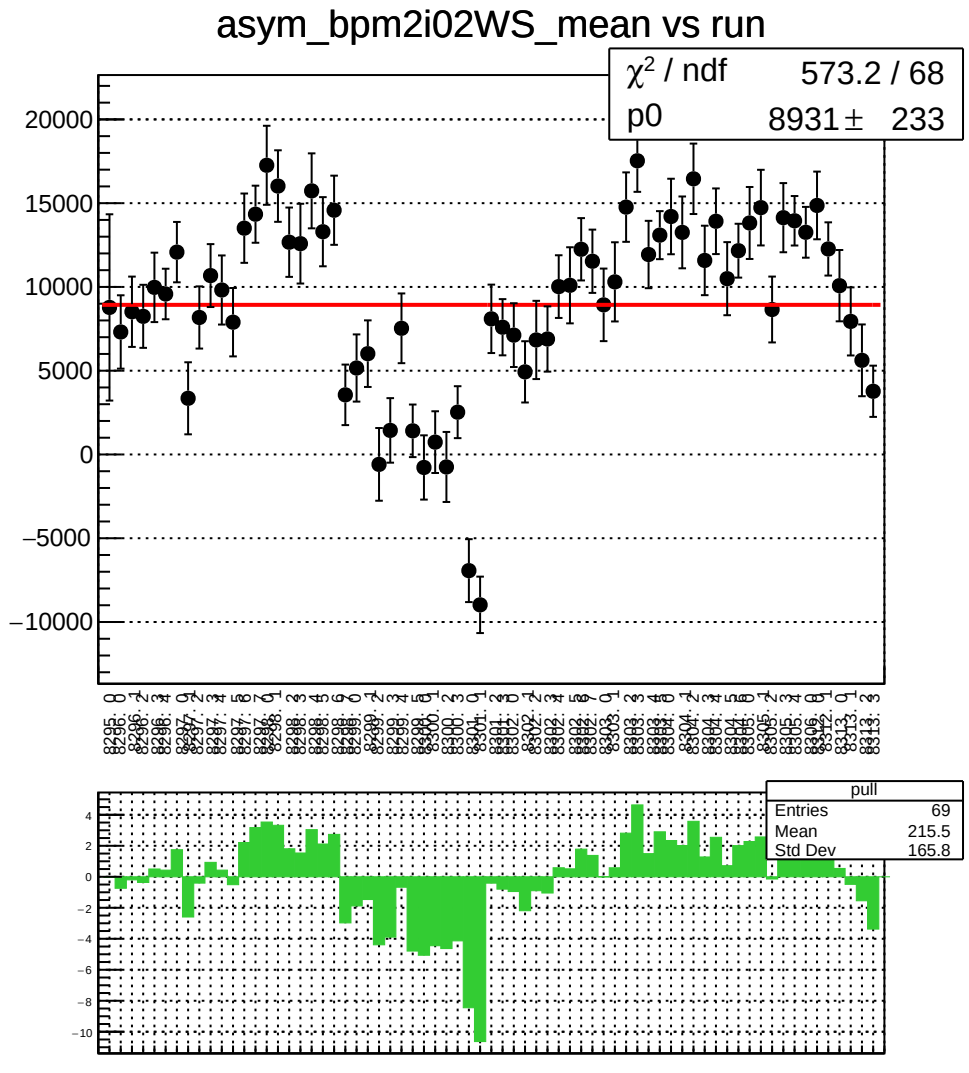

pull1D
Entries 69
Mean 0.3789
Std Dev 2.516

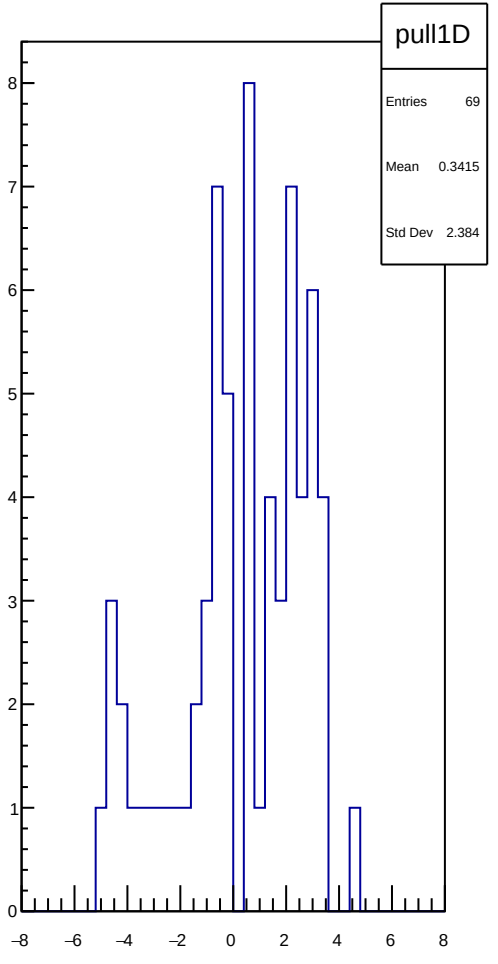

asym_bpm1i02WS_rms vs run
χ² / ndf 5556 / 68
p0 183.6 ± 0.1578
220
210
200
190
180
170
160

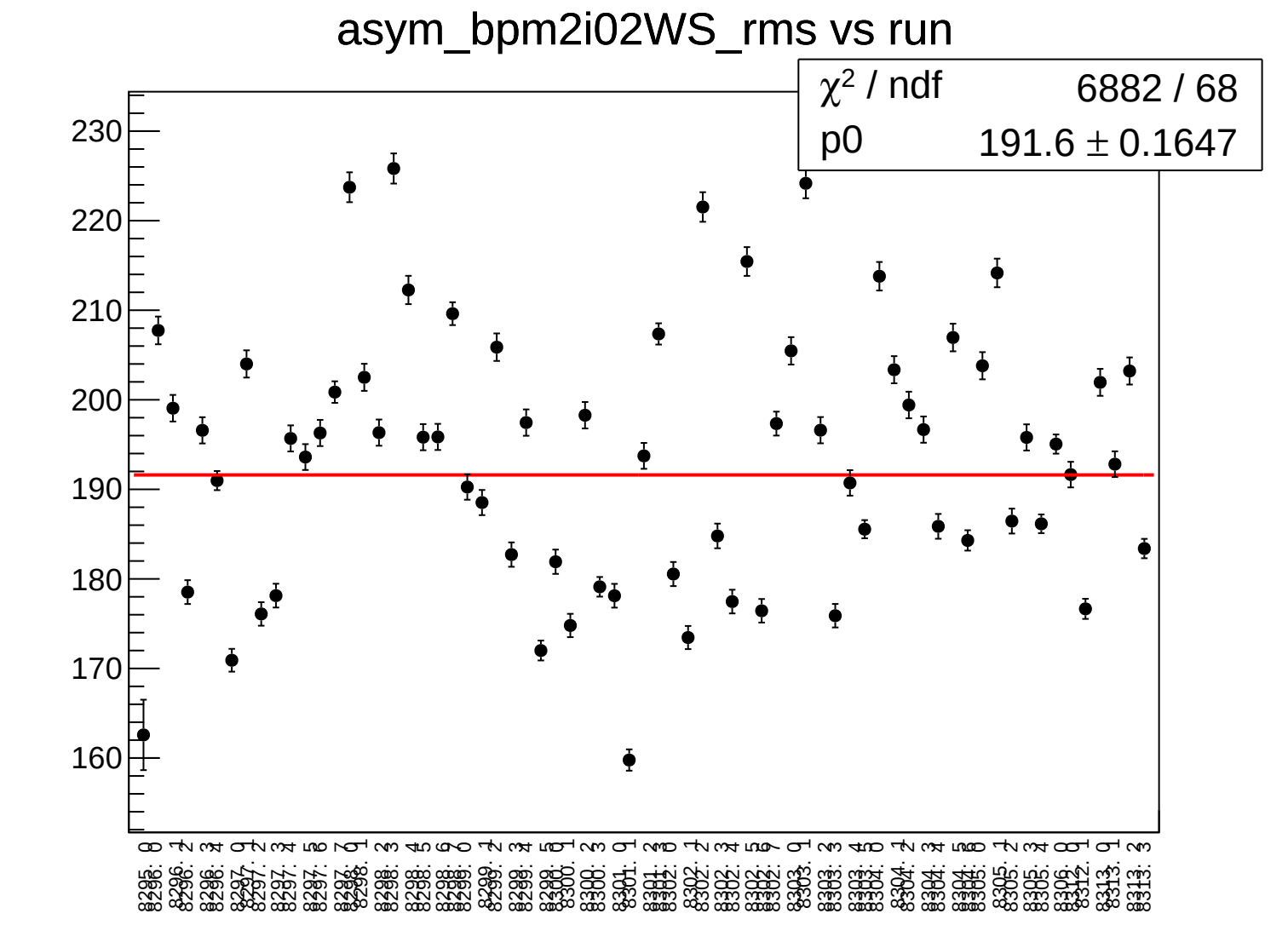

asym_bpm2i01WS_mean vs run
χ² / ndf 630.3 / 68
p0 8635 ± 212.2
pull
Entries 69
Mean 309.4
Std Dev 259.4

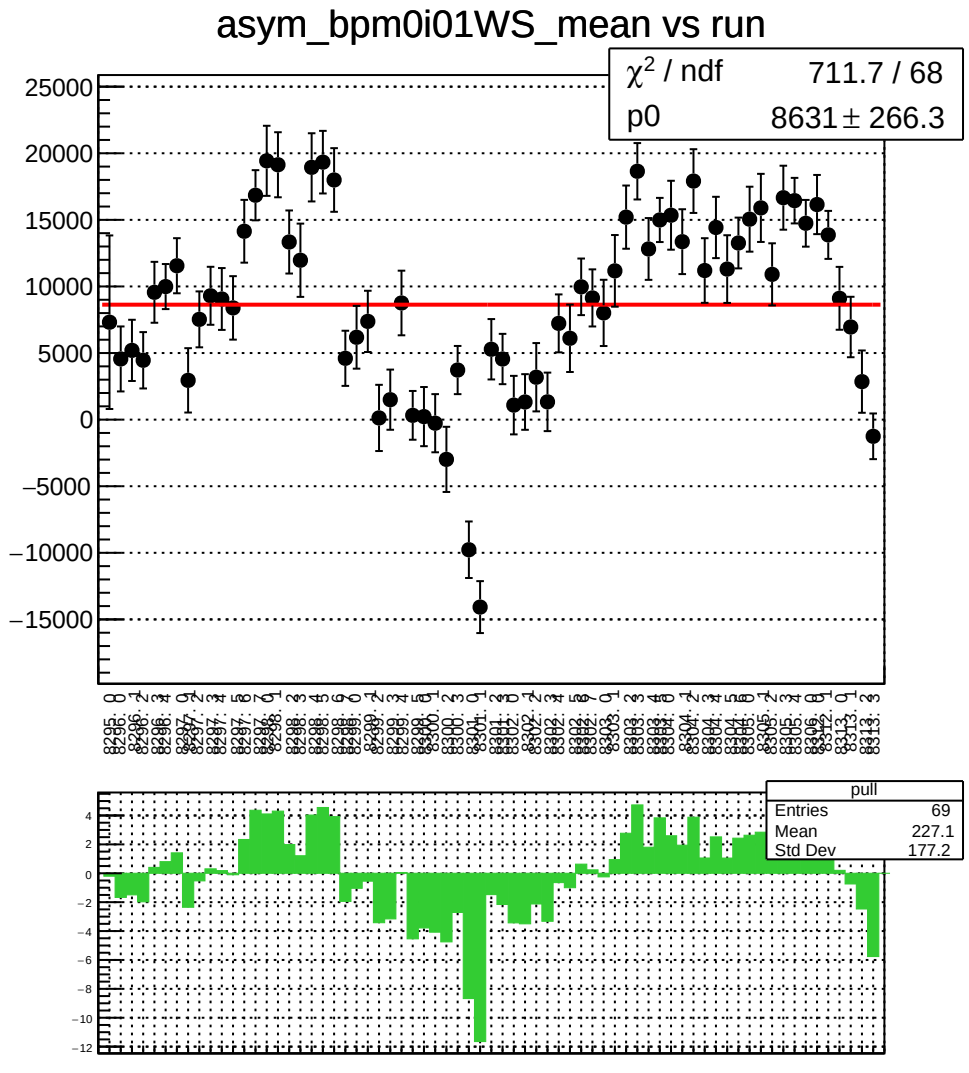

pull1D
Entries 69
Mean 0.3421
Std Dev 2.499

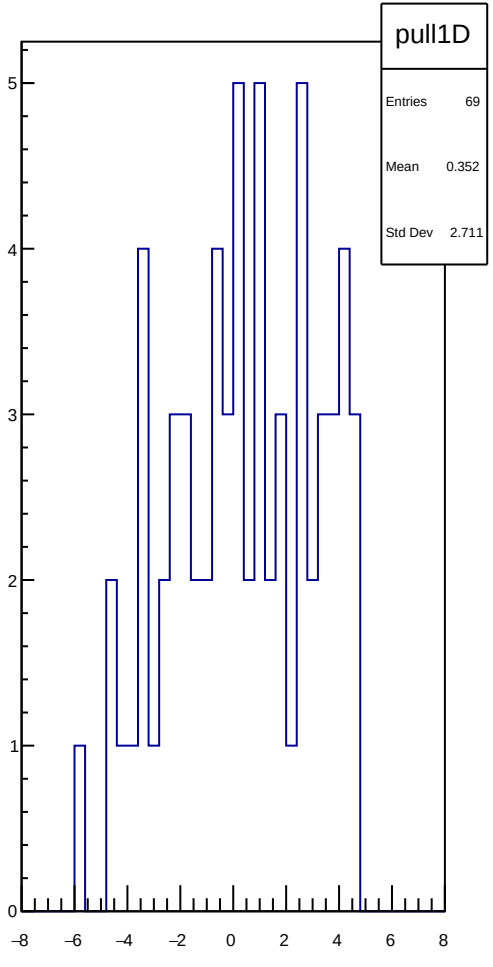

asym_bpm2i01WS_rms vs run
χ² / ndf 5218 / 68
p0 174.6 ± 0.15
200
190
180
170
160
150

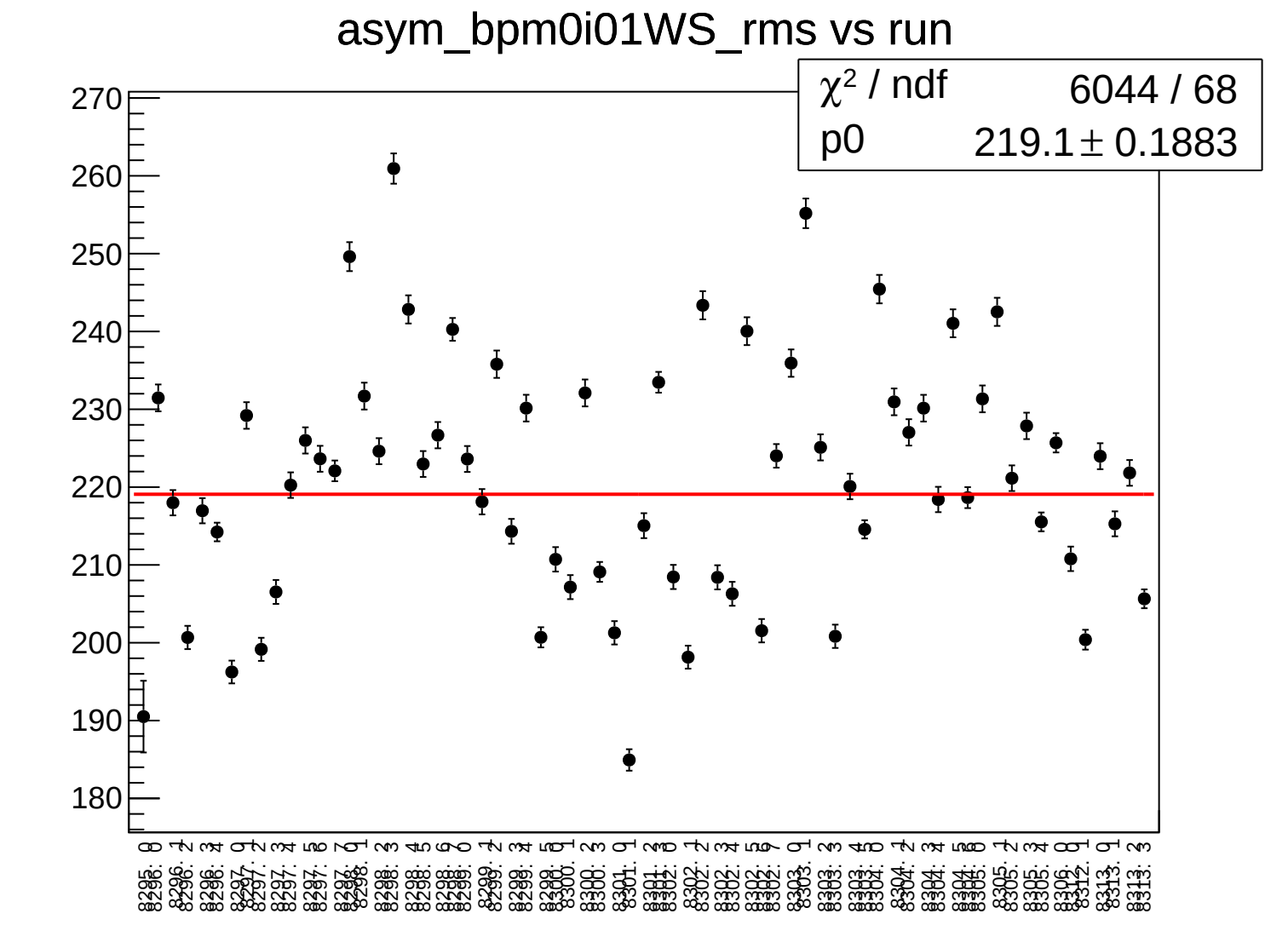

asym_bpm2i02WS_mean vs run
χ² / ndf 573.2 / 68
p0 8931 ± 233
pull
Entries 69
Mean 215.5
Std Dev 165.8

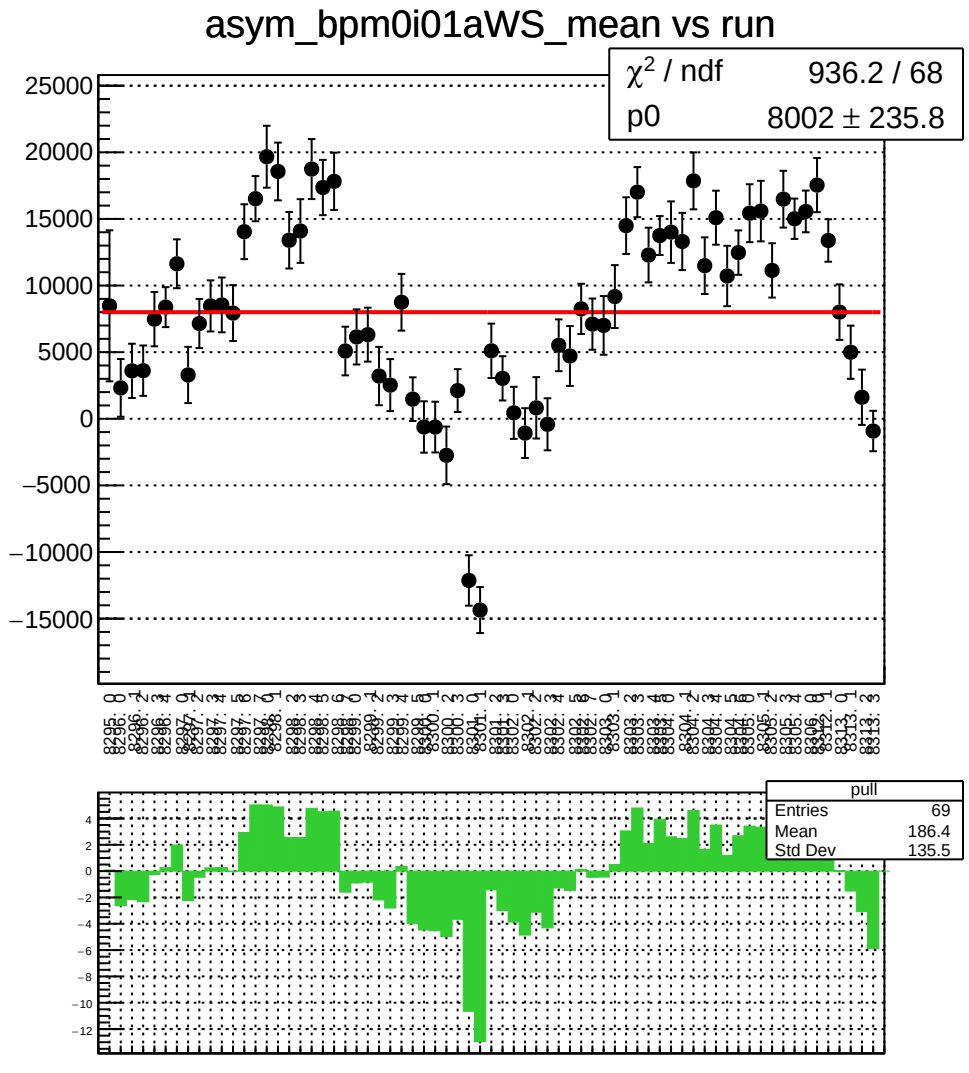

pull1D
Entries 69
Mean 0.3415
Std Dev 2.384

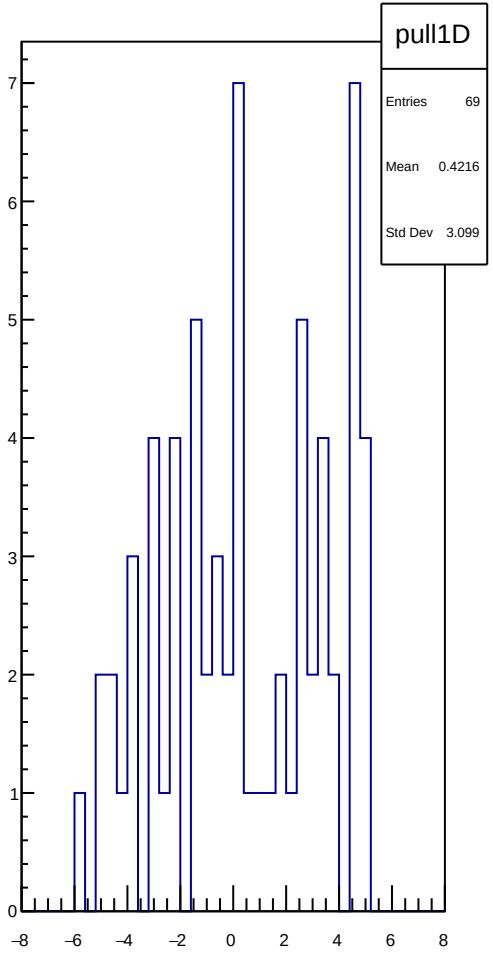

asym_bpm2i02WS_rms vs run
χ² / ndf 6882 / 68
p0 191.6 ± 0.1647
230
220
210
200
190
180
170
160

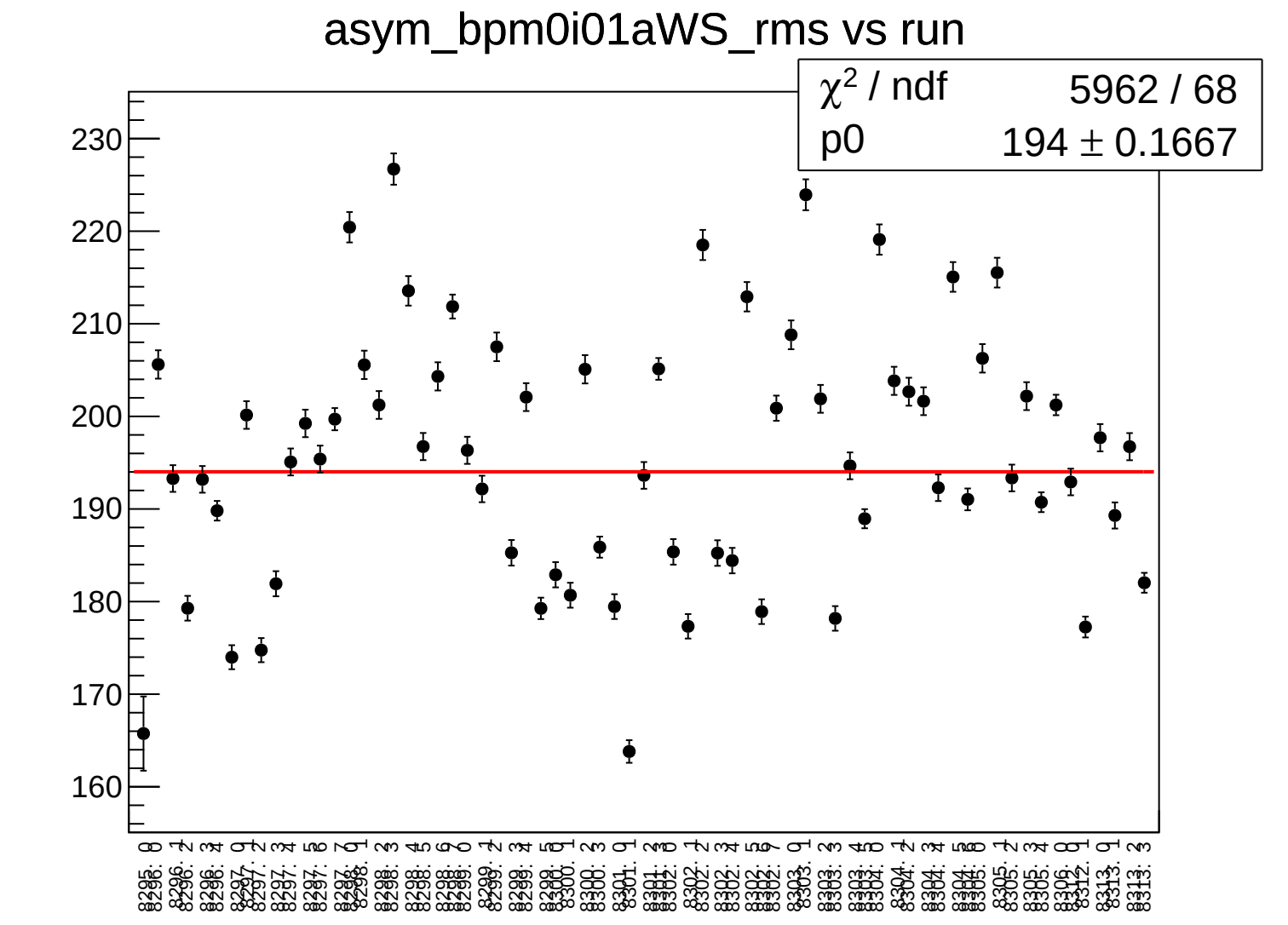

asym_bpm0i01WS_mean vs run
χ^2 / ndf 711.7 / 68
p0 8631 ± 266.3
pull
Entries 69
Mean 227.1
Std Dev 177.2

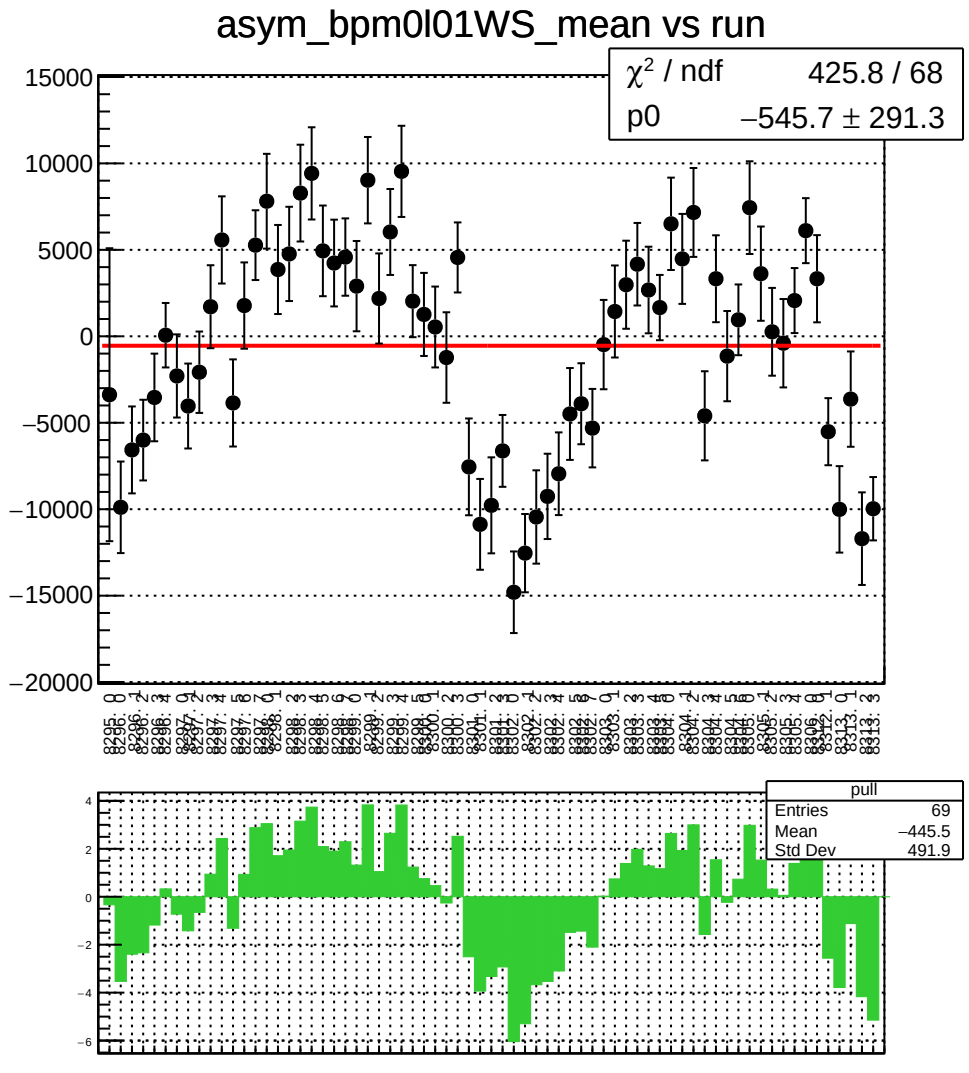

pull1D
Entries 69
Mean 0.352
Std Dev 2.711

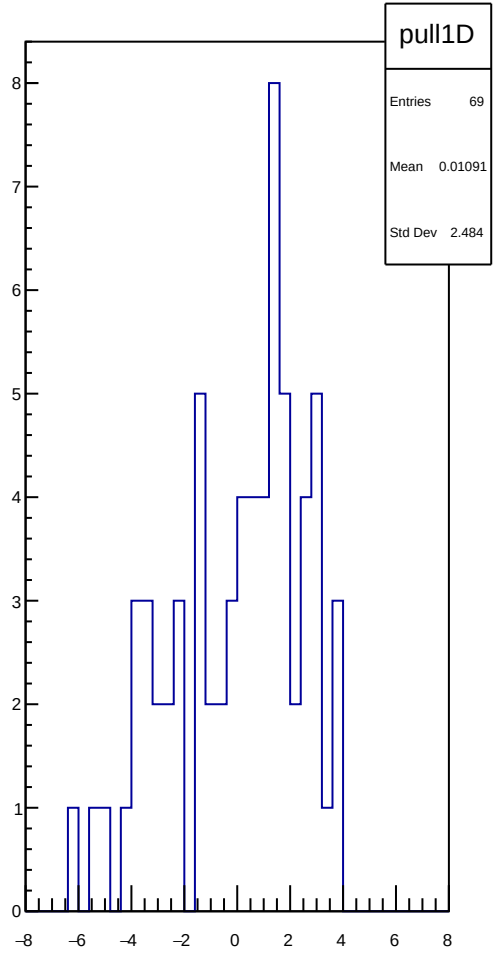

asym_bpm0i01WS_rms vs run
χ² / ndf 6044 / 68
p0 219.1 ± 0.1883
270
260
250
240
230
220
210
200
190
180

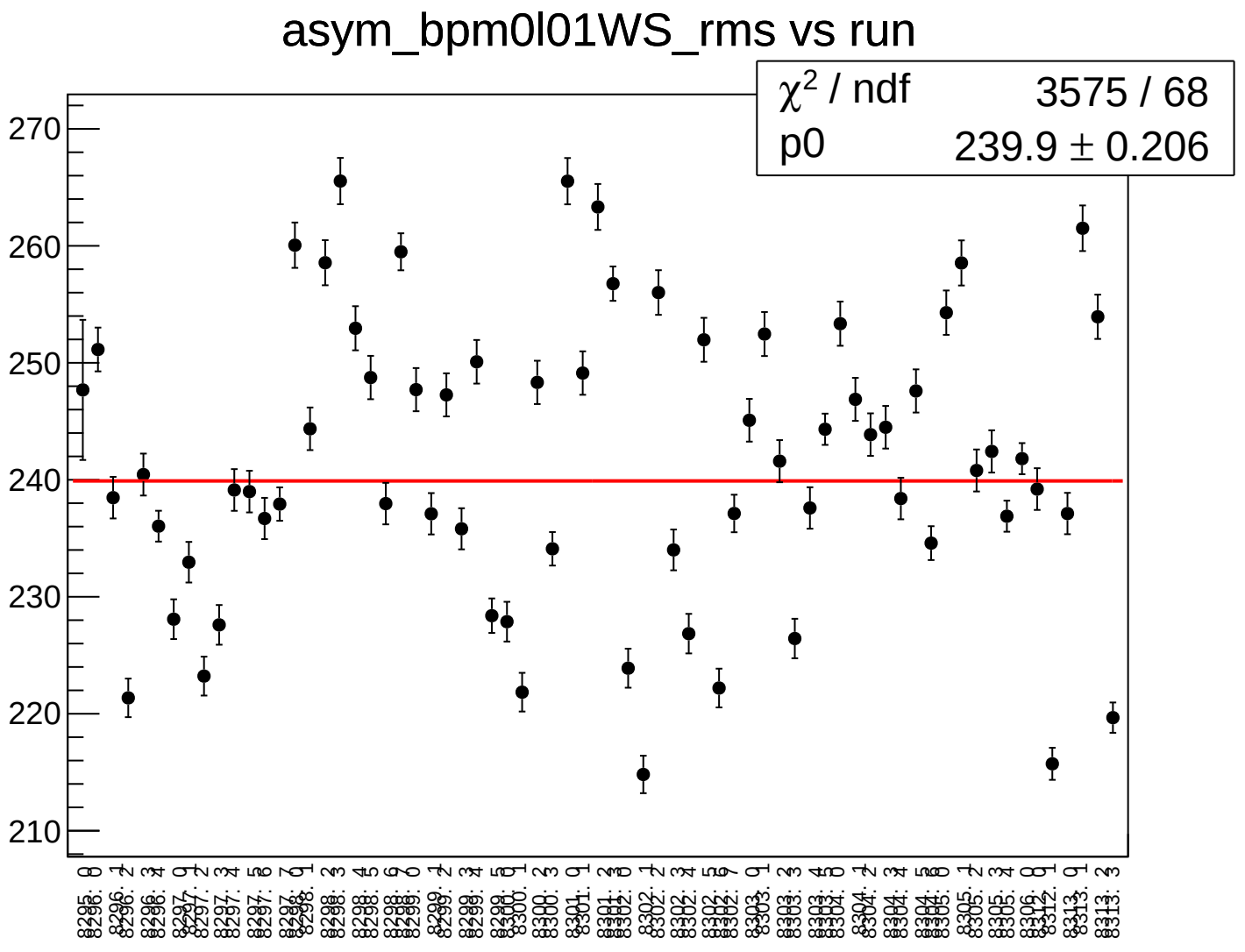

asym_bpm0i01aWS_mean vs run
χ² / ndf 936.2 / 68
p0 8002 ± 235.8
pull
Entries 69
Mean 186.4
Std Dev 135.5

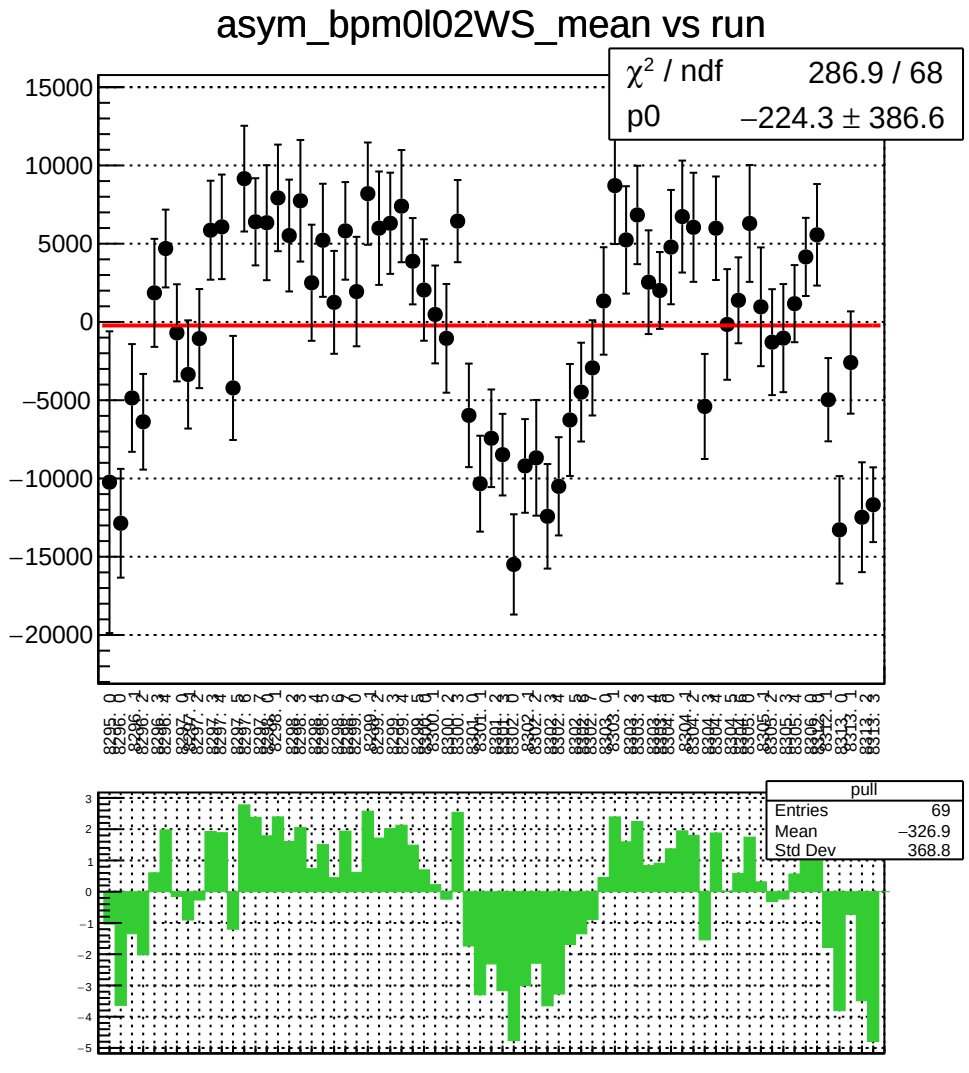

pull1D
Entries 69
Mean 0.4216
Std Dev 3.099

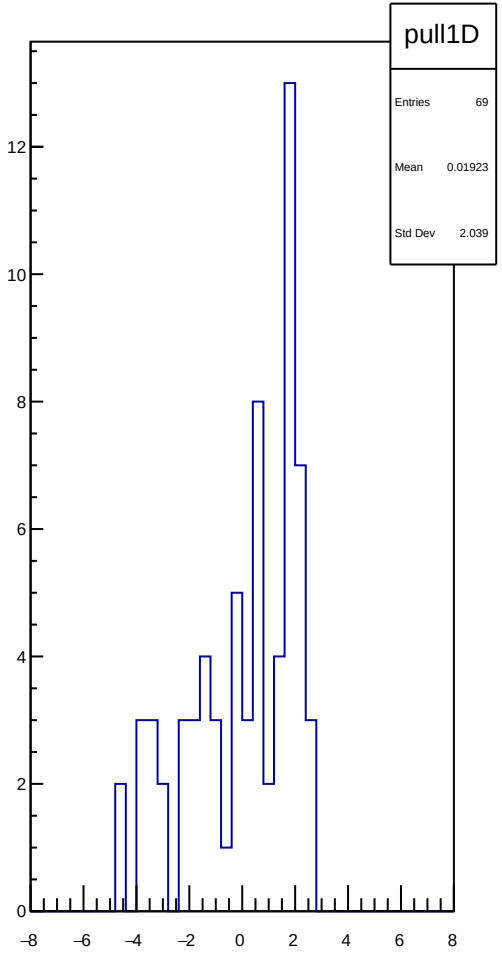

asym_bpm0i01aWS_rms vs run
χ² / ndf 5962 / 68
p0 194 ± 0.1667
230
220
210
200
190
180
170
160

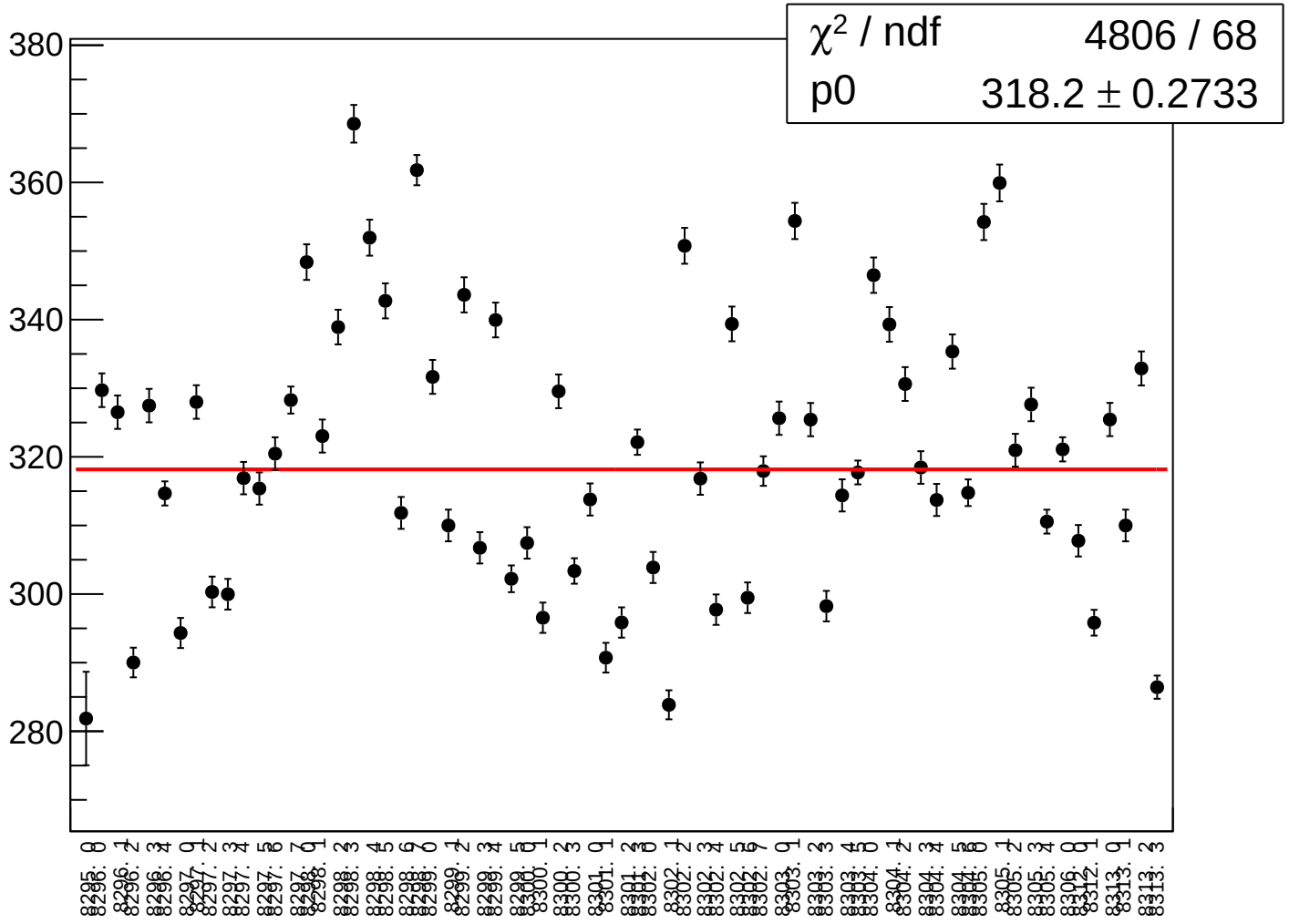

asym_bpm0l01WS_mean vs run
χ² / ndf 425.8 / 68
p0 −545.7 ± 291.3
pull
Entries 69
Mean −445.5
Std Dev 491.9

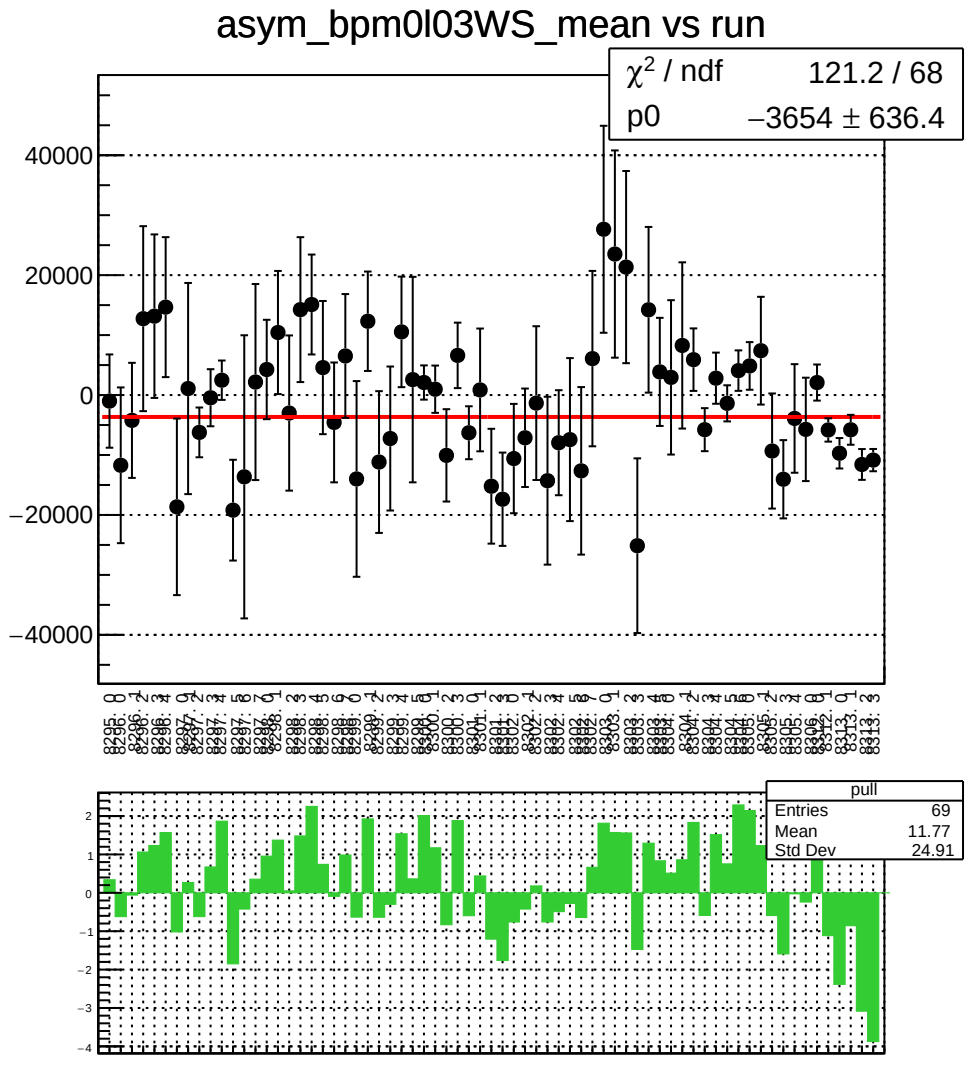

pull1D
Entries 69
Mean 0.01091
Std Dev 2.484

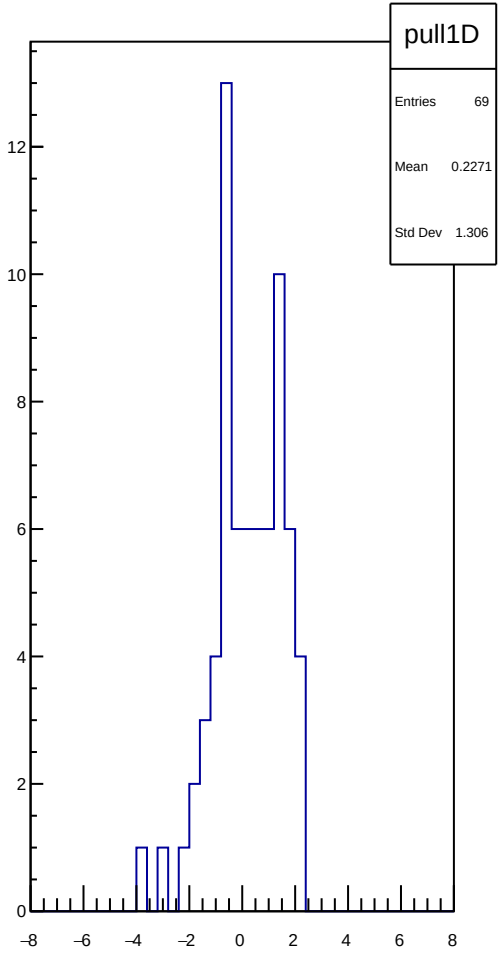

asym_bpm0l01WS_rms vs run
χ² / ndf 3575 / 68
p0 239.9 ± 0.206
270
260
250
240
230
220
210

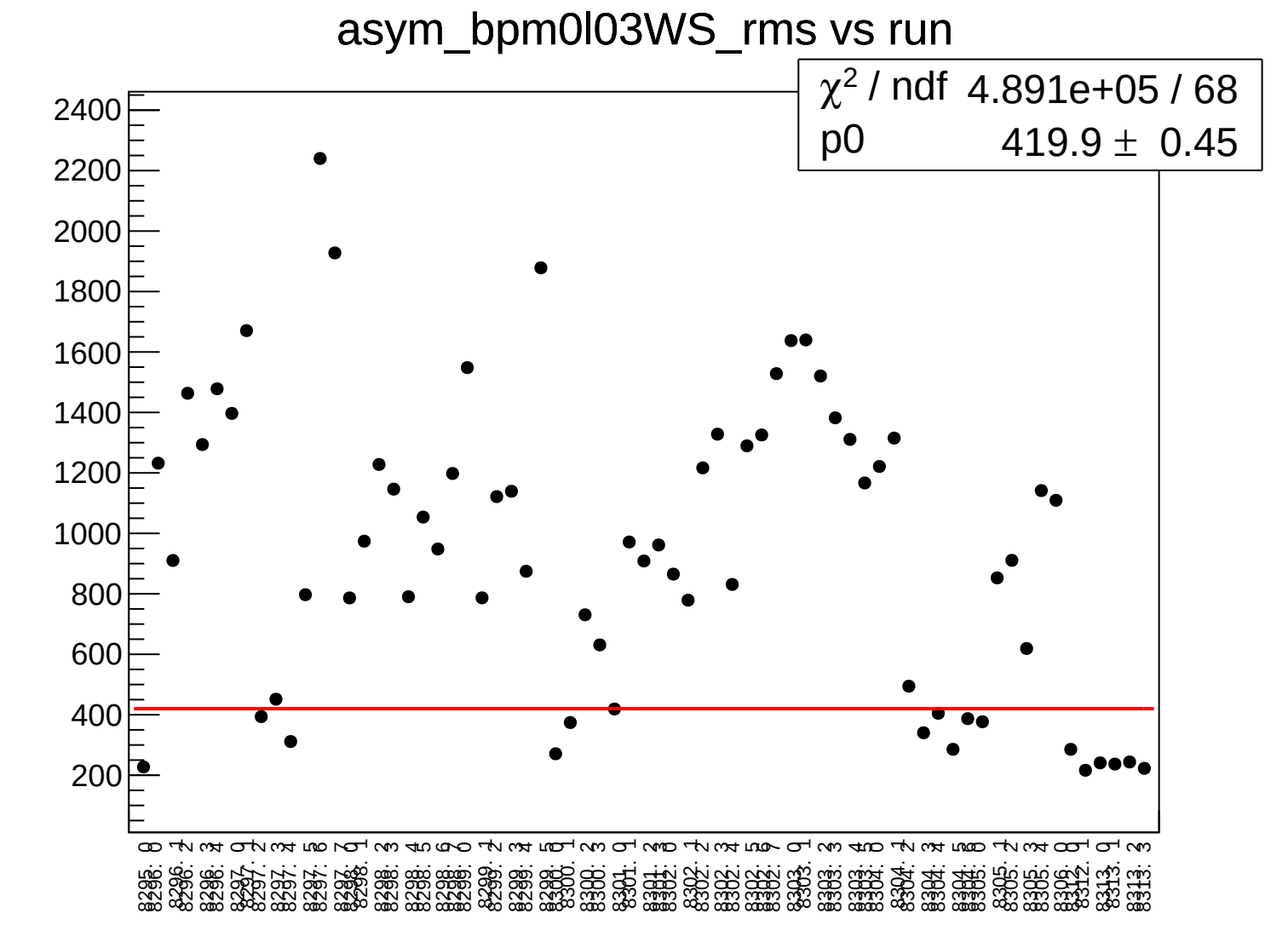

asym_bpm0l02WS_mean vs run
χ² / ndf 286.9 / 68
p0 −224.3 ± 386.6
pull
Entries 69
Mean −326.9
Std Dev 368.8

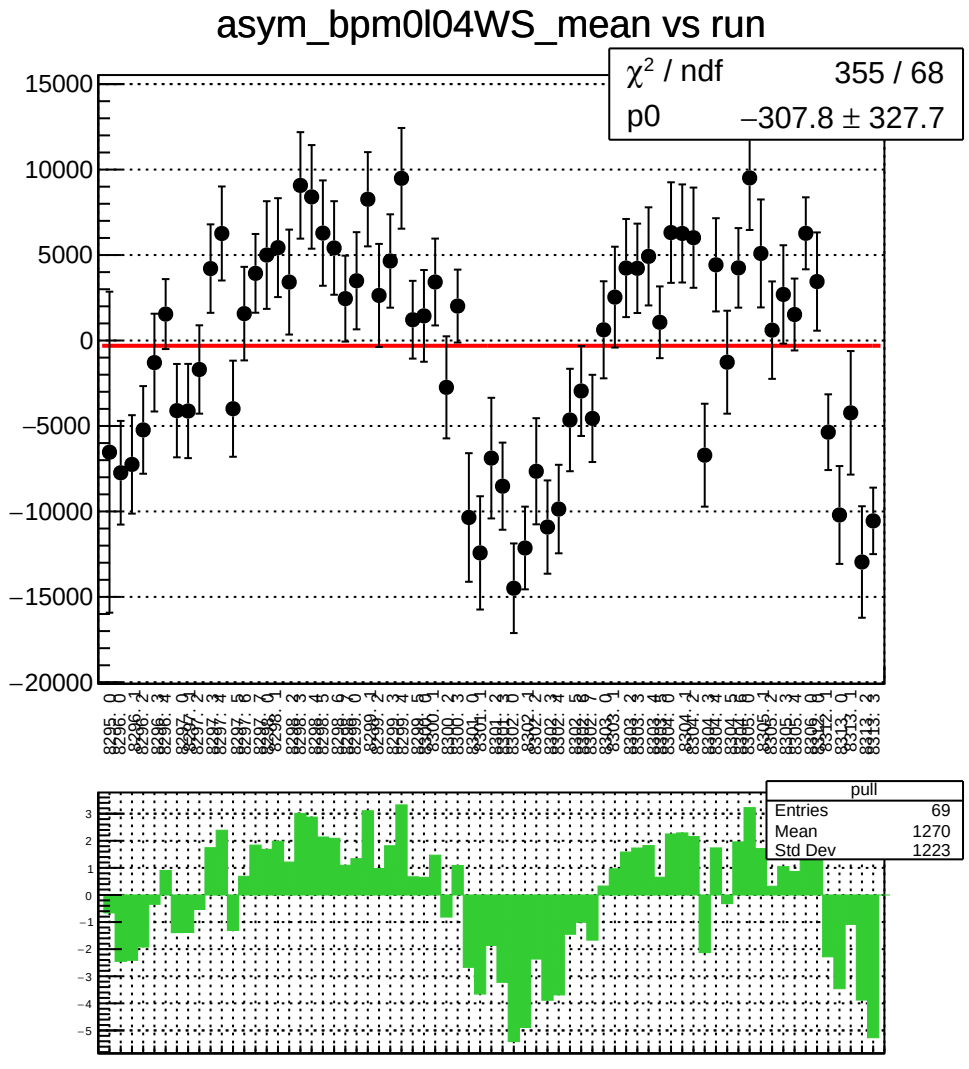

pull1D
Entries 69
Mean 0.01923
Std Dev 2.039

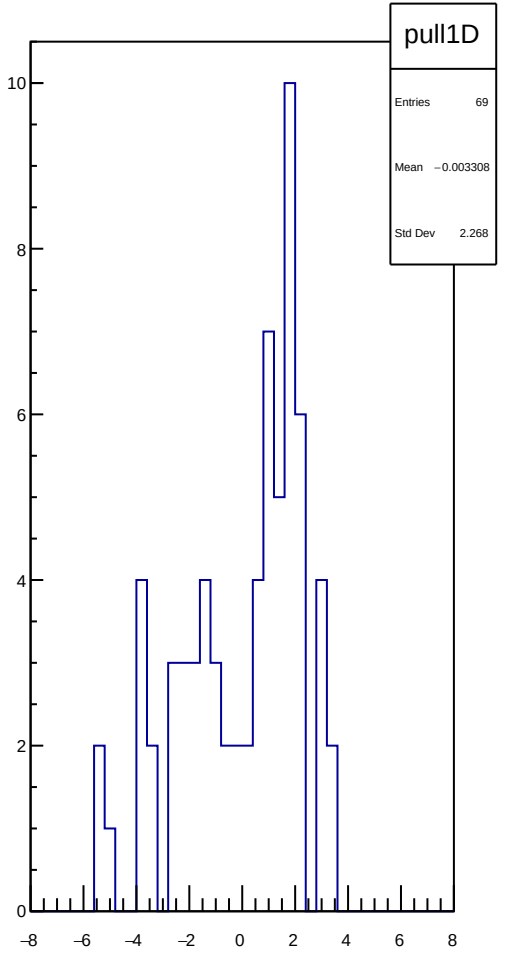

asym_bpm0l02WS_rms vs run
χ² / ndf 4806 / 68
p0 318.2 ± 0.2733
380
360
340
320
300
280

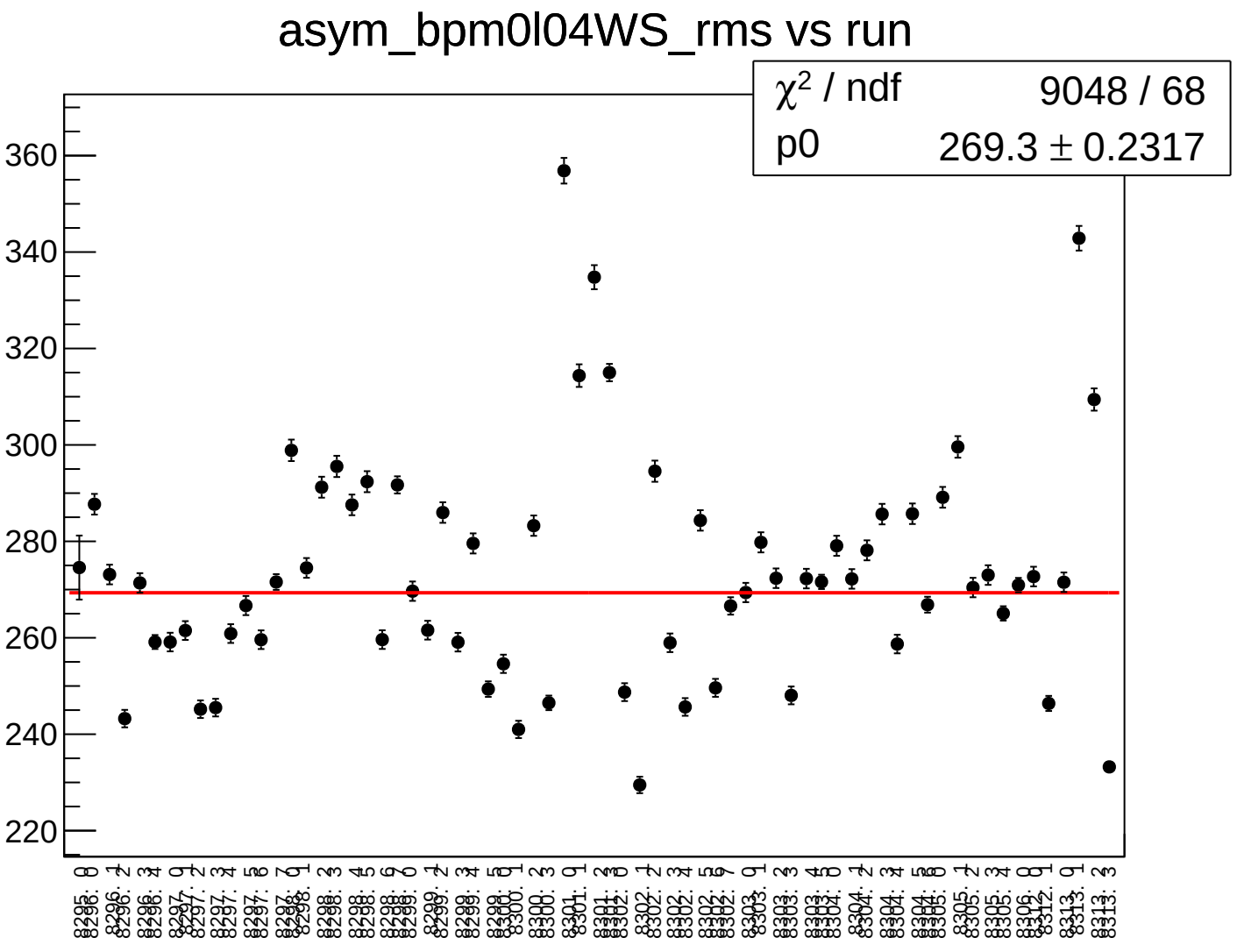

asym_bpm0l03WS_mean vs run
χ² / ndf 121.2 / 68
p0 −3654 ± 636.4
40000
20000
0
−20000
−40000
pull
Entries 69
Mean 11.77
Std Dev 24.91
2
1
0
−1
−2
−3
−4

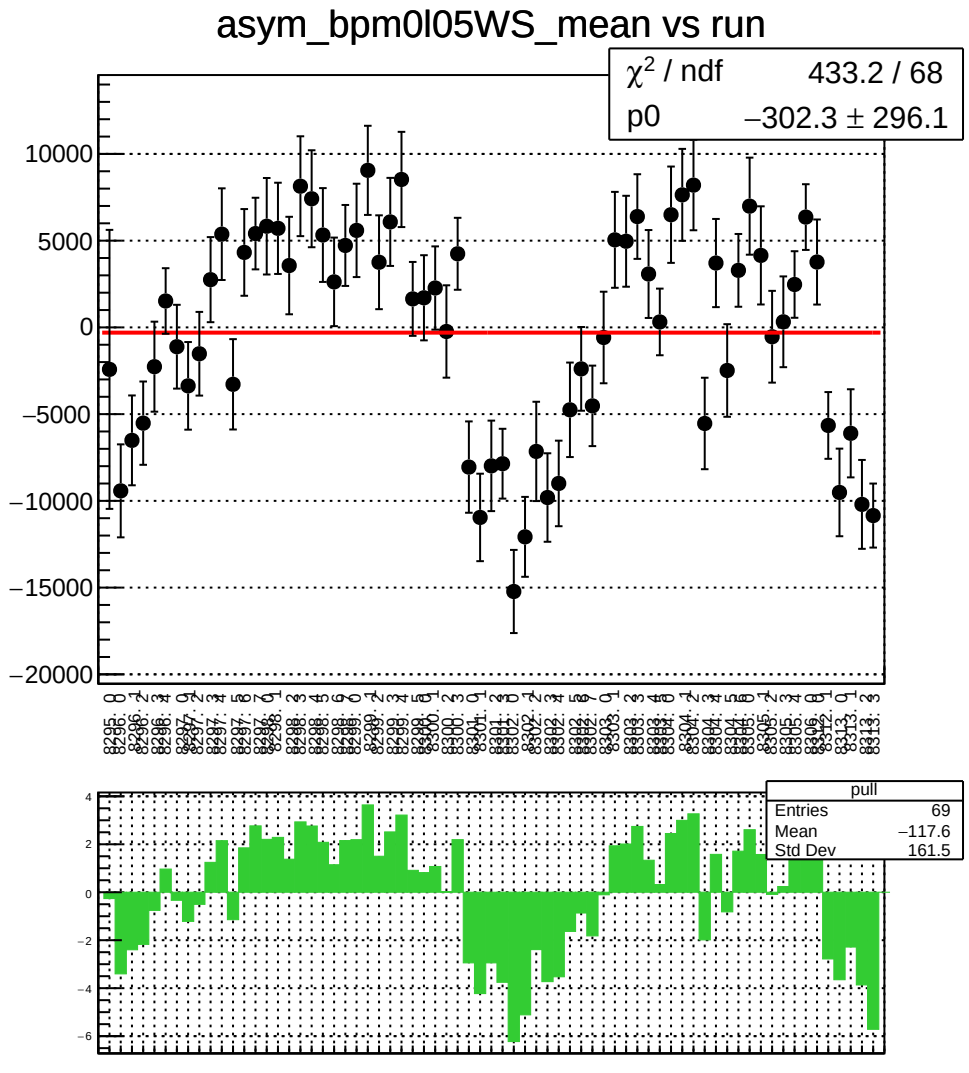

pull1D
Entries 69
Mean 0.2271
Std Dev 1.306
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

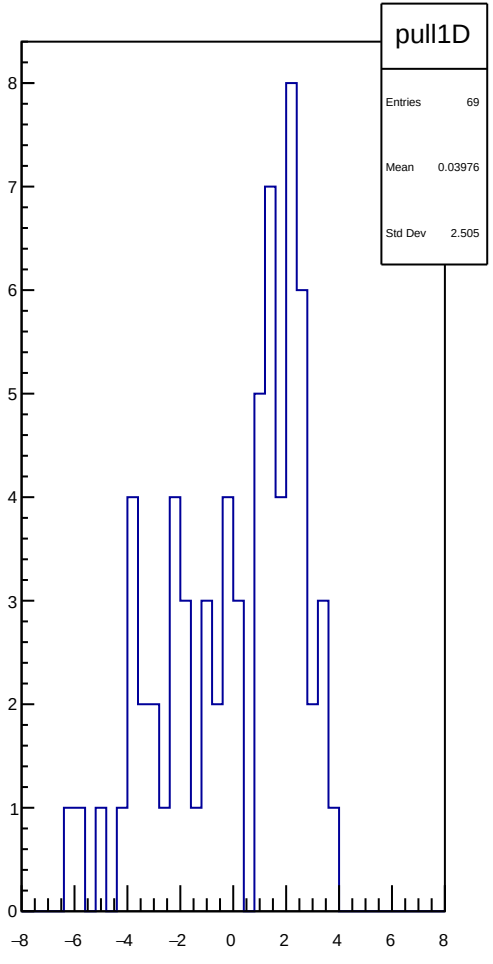

asym_bpm0l03WS_rms vs run
χ² / ndf 4.891e+05 / 68
p0 419.9 ± 0.45
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

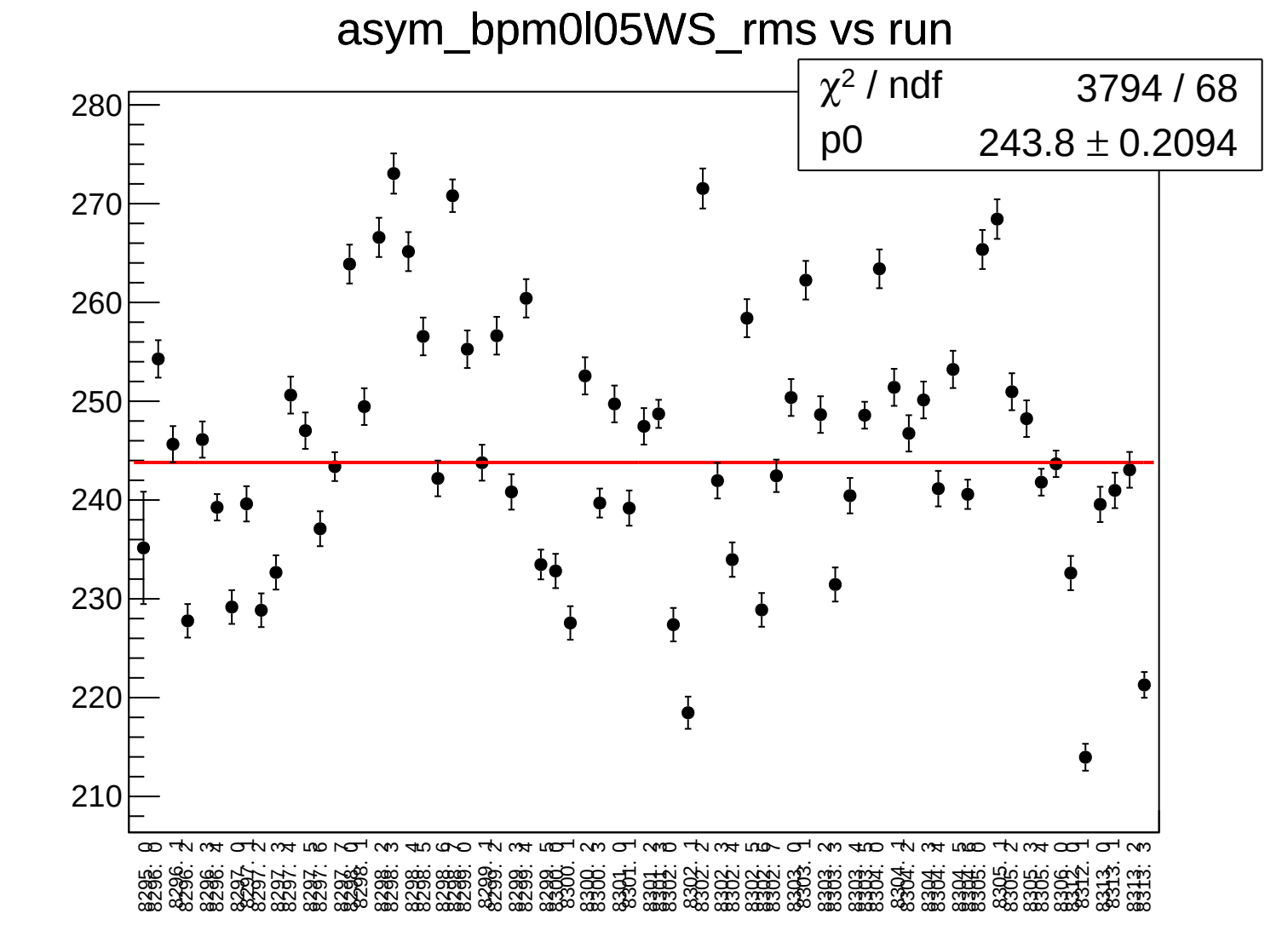

asym_bpm0l04WS_mean vs run
χ² / ndf 355 / 68
p0 −307.8 ± 327.7
pull
Entries 69
Mean 1270
Std Dev 1223

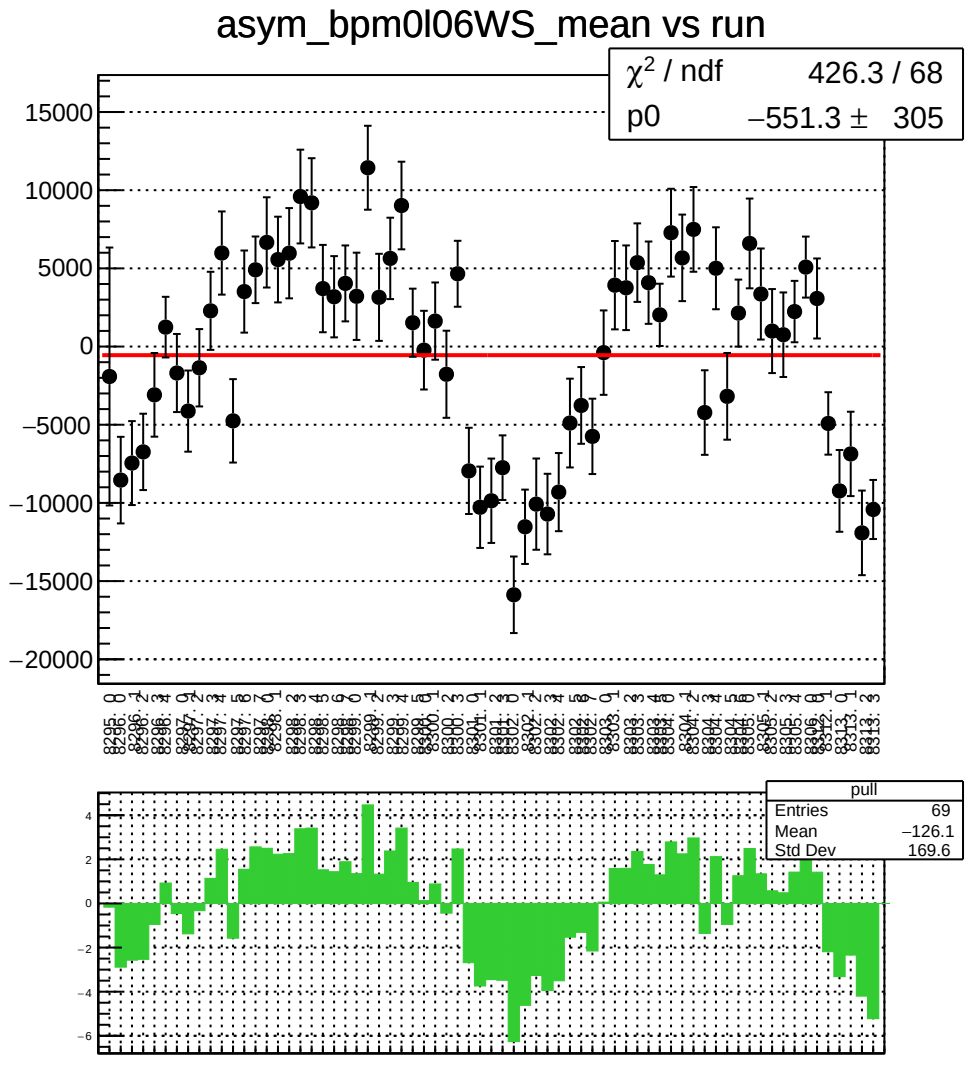

pull1D
Entries 69
Mean −0.003308
Std Dev 2.268

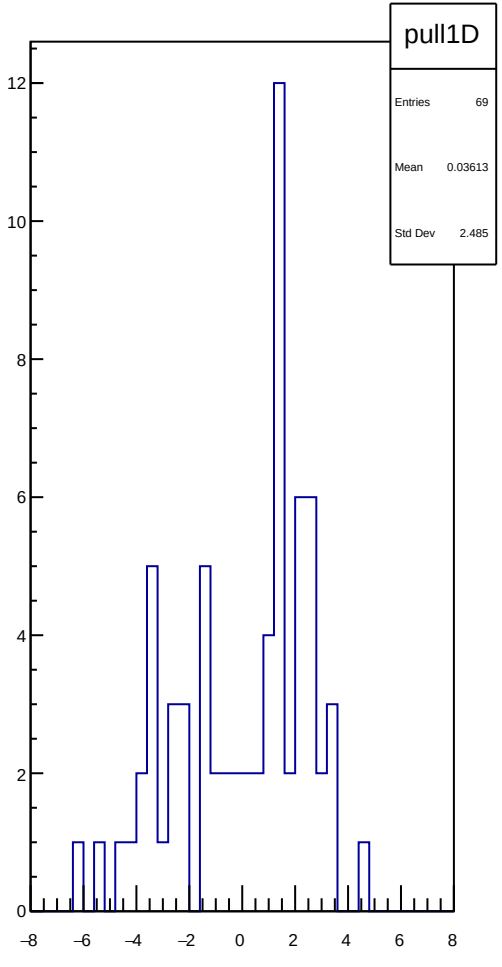

asym_bpm0l04WS_rms vs run
χ^2 / ndf 9048 / 68
p0 269.3 ± 0.2317
360
340
320
300
280
260
240
220

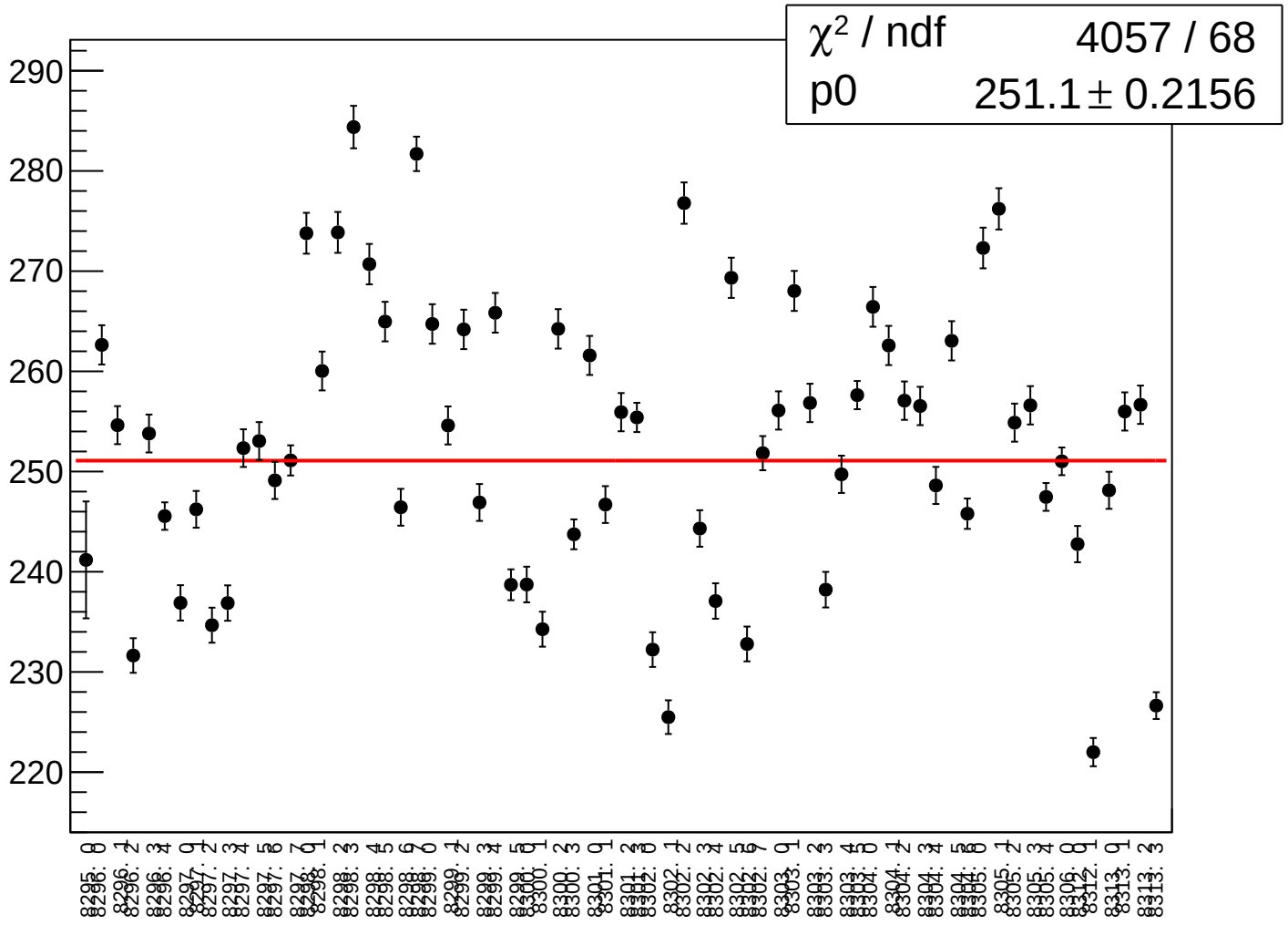

asym_bpm0l05WS_mean vs run
χ² / ndf 433.2 / 68
p0 −302.3 ± 296.1
pull
Entries 69
Mean −117.6
Std Dev 161.5

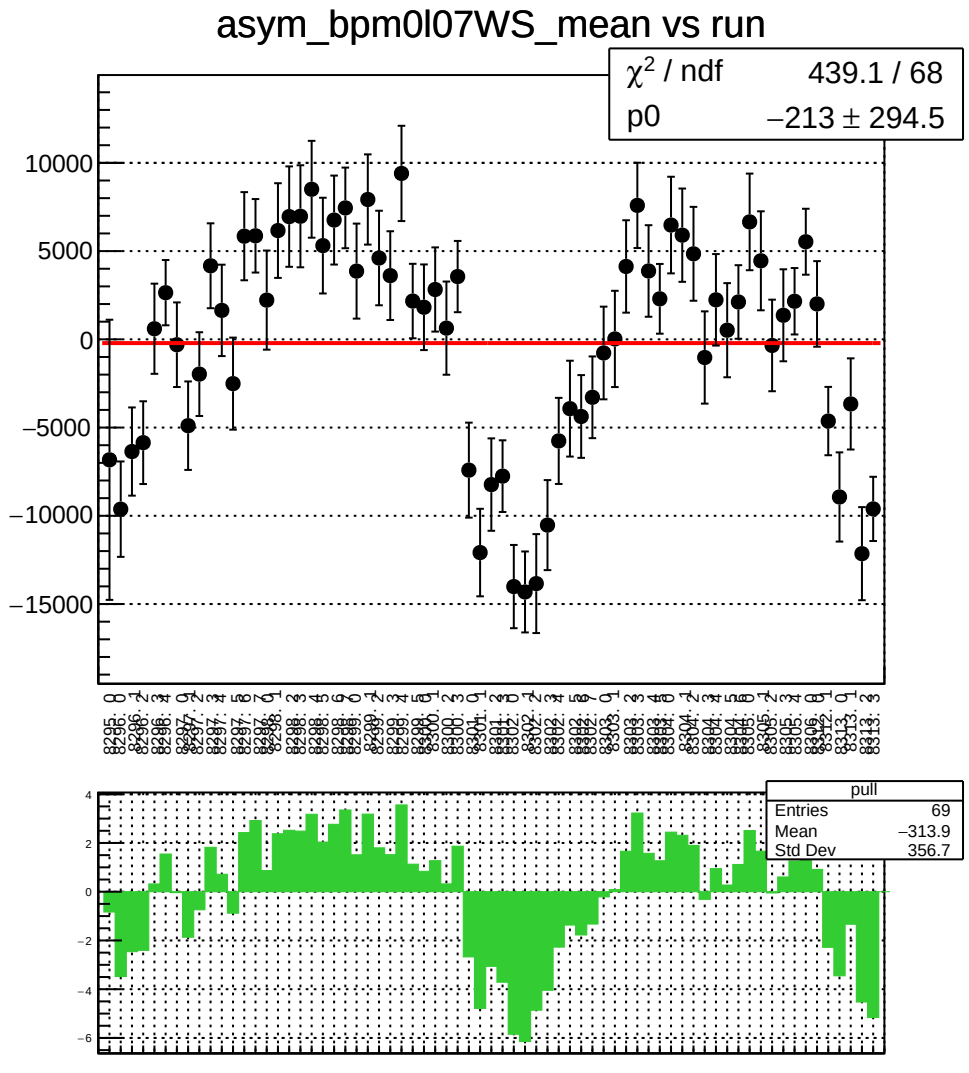

pull1D
Entries 69
Mean 0.03976
Std Dev 2.505

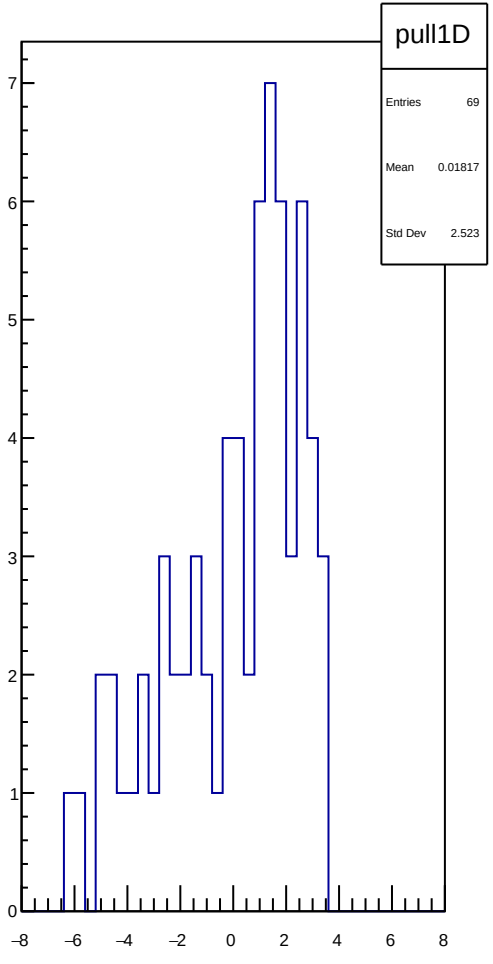

asym_bpm0l05WS_rms vs run
χ² / ndf 3794 / 68
p0 243.8 ± 0.2094
280
270
260
250
240
230
220
210

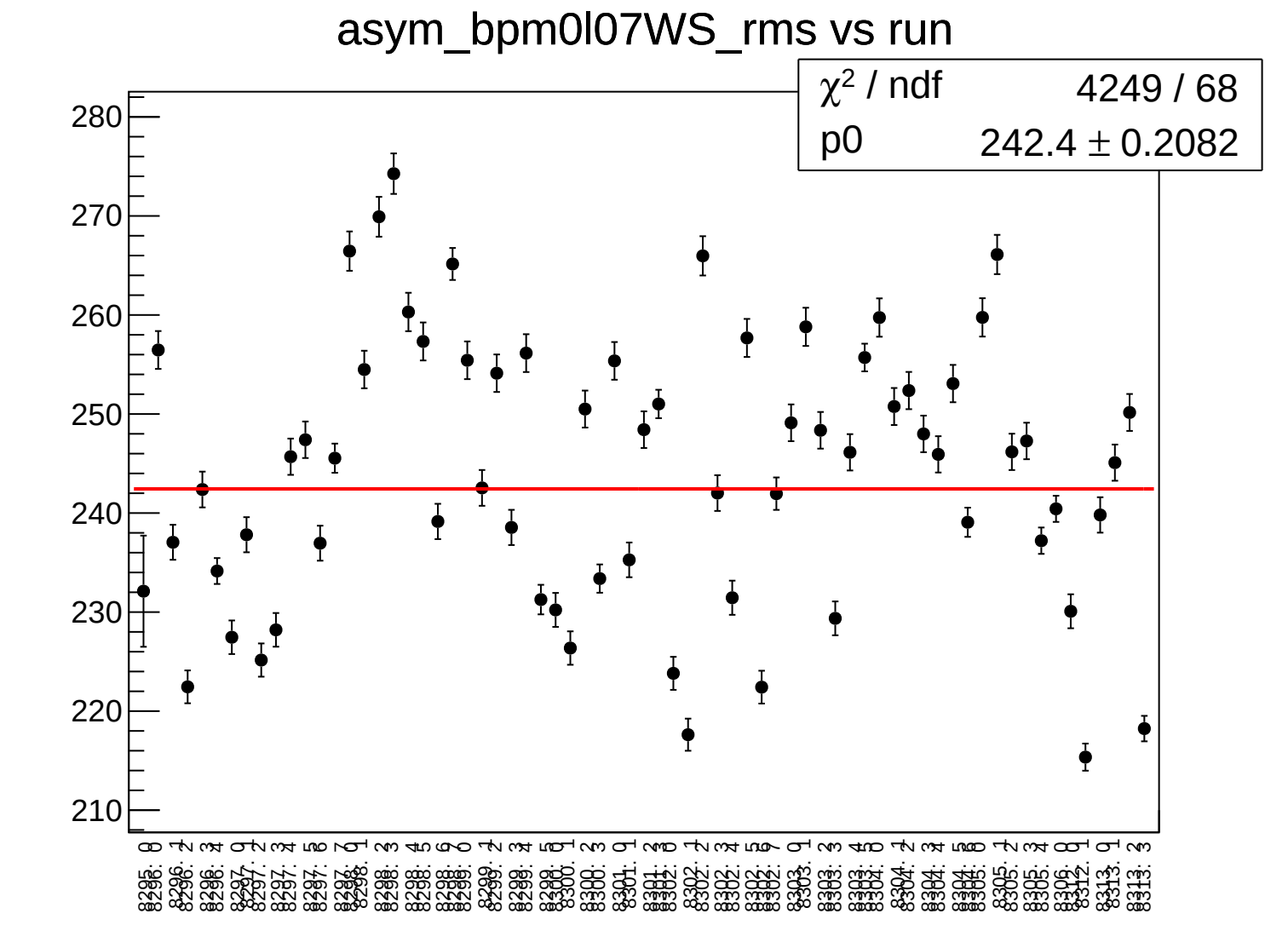

asym_bpm0l06WS_mean vs run
χ² / ndf 426.3 / 68
p0 −551.3 ± 305
pull
Entries 69
Mean −126.1
Std Dev 169.6

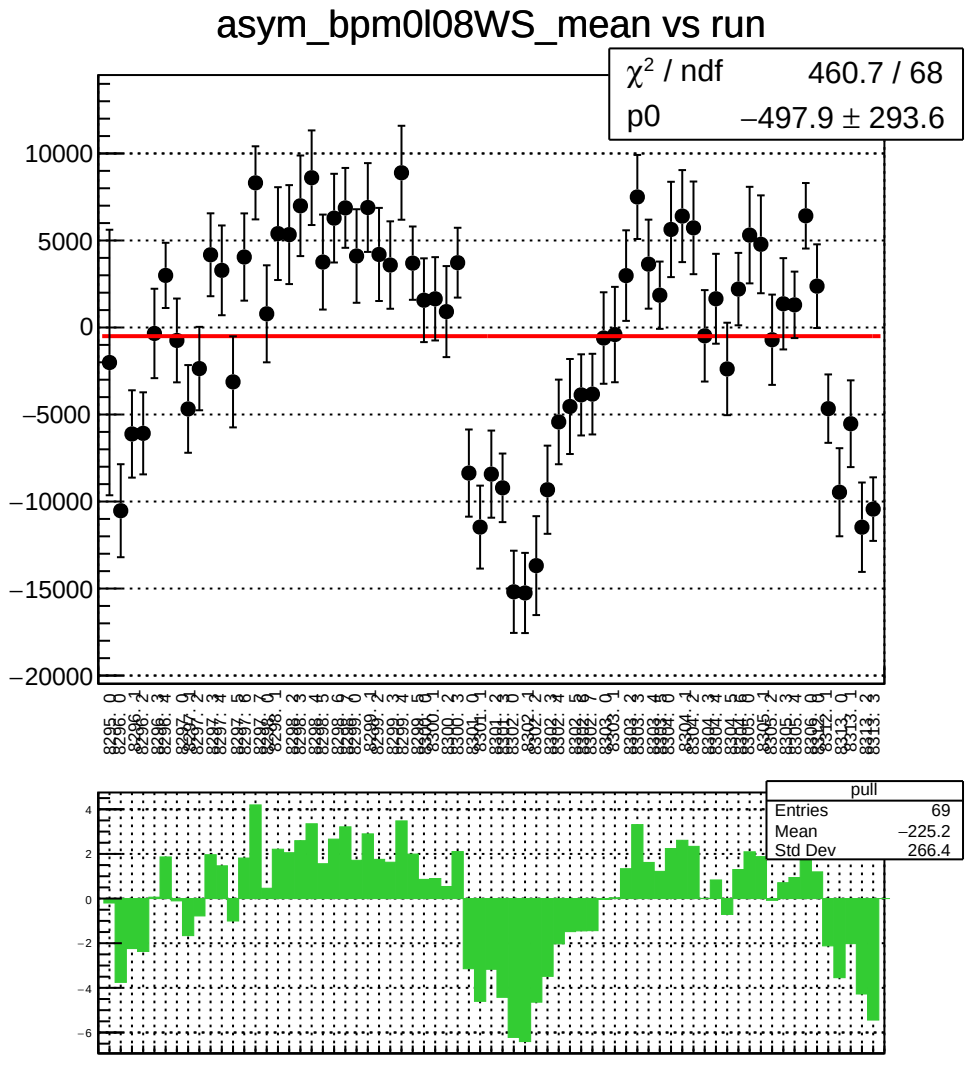

pull1D
Entries 69
Mean 0.03613
Std Dev 2.485

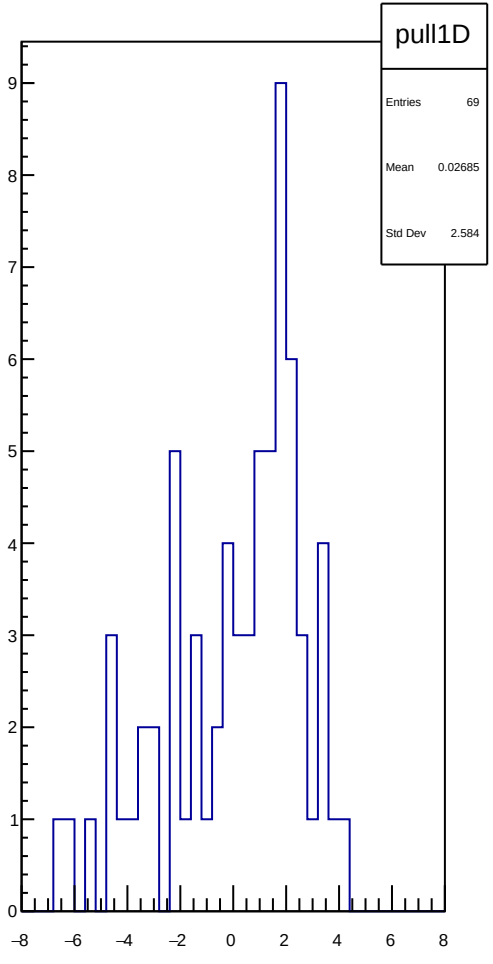

asym_bpm0l06WS_rms vs run
χ² / ndf 4057 / 68
p0 251.1 ± 0.2156
290
280
270
260
250
240
230
220

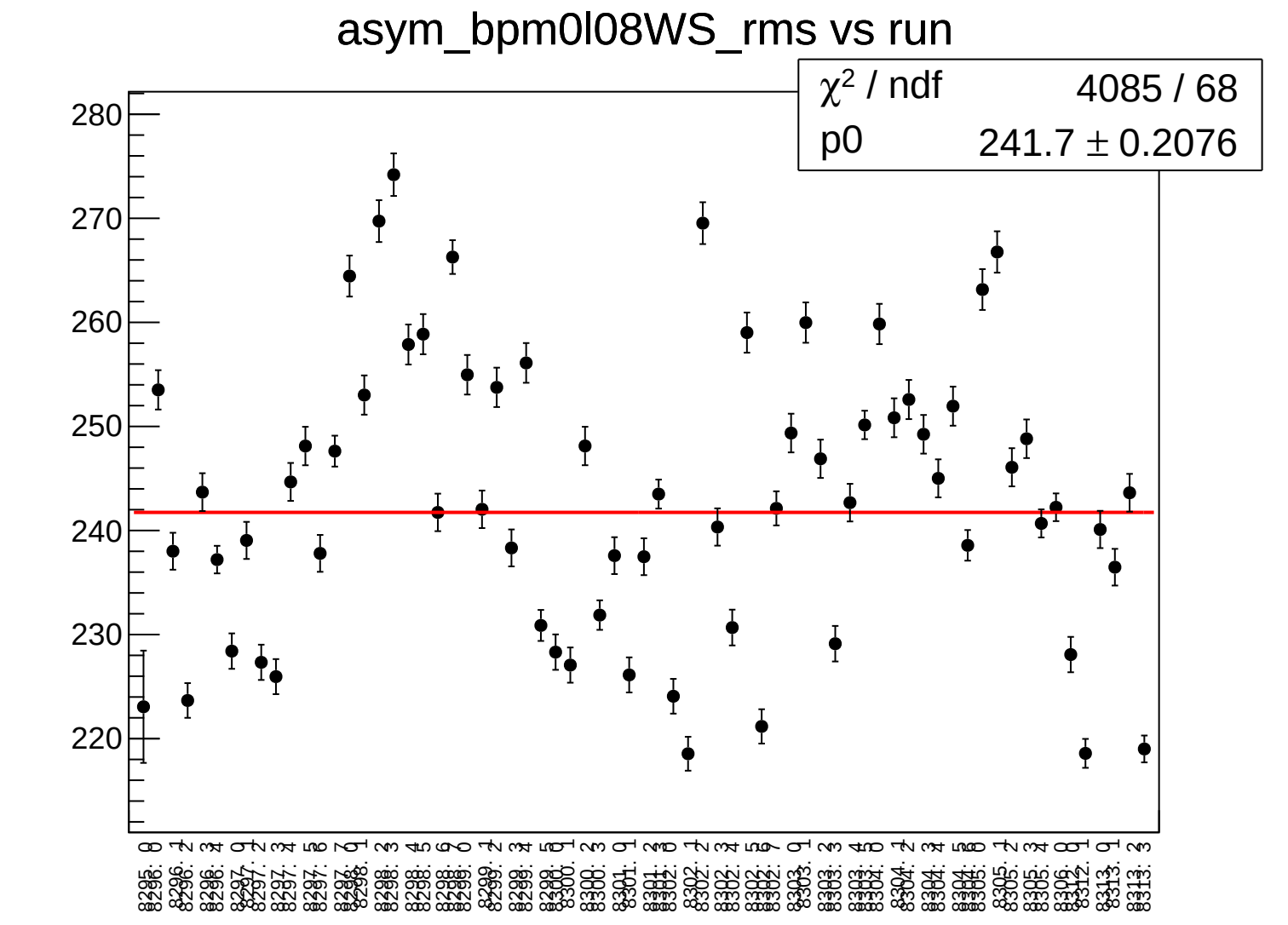

asym_bpm0l07WS_mean vs run
χ² / ndf 439.1 / 68
p0 −213 ± 294.5
pull
Entries 69
Mean −313.9
Std Dev 356.7

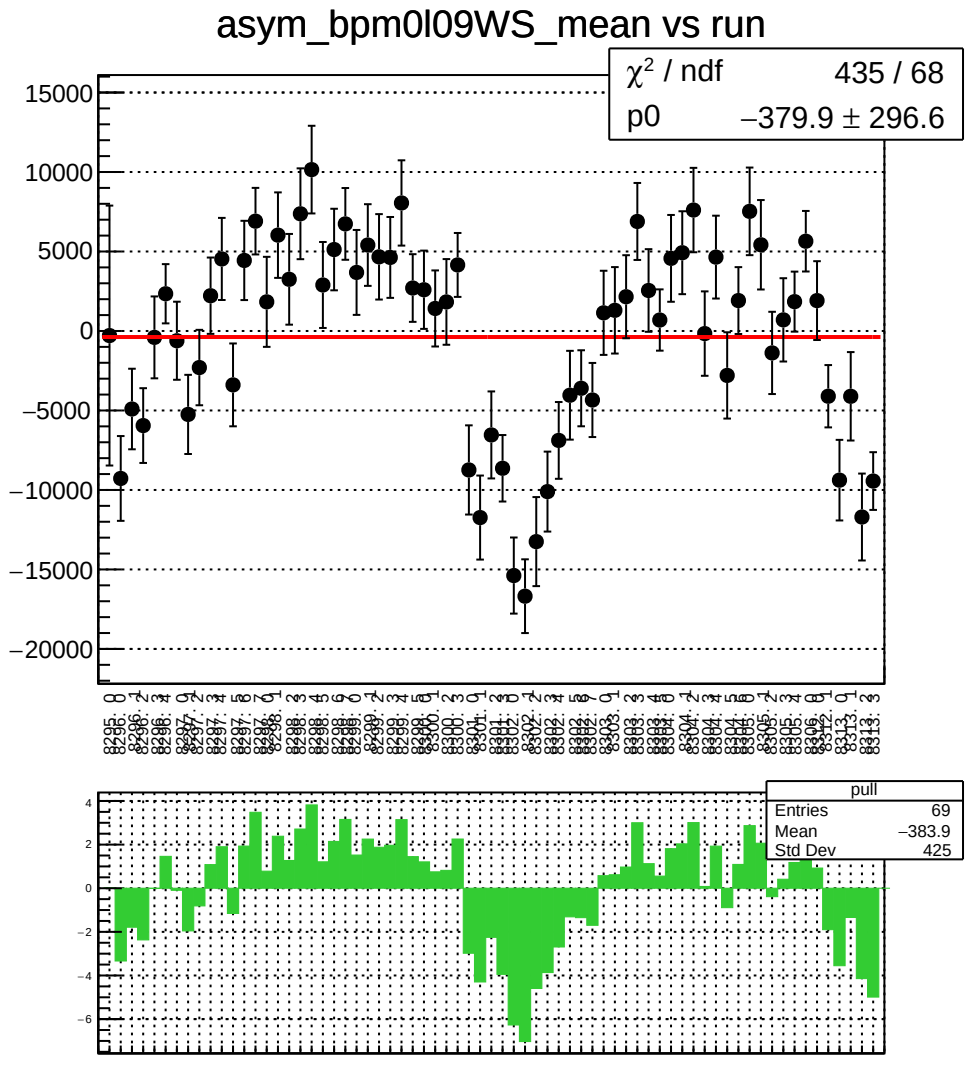

pull1D
Entries 69
Mean 0.01817
Std Dev 2.523

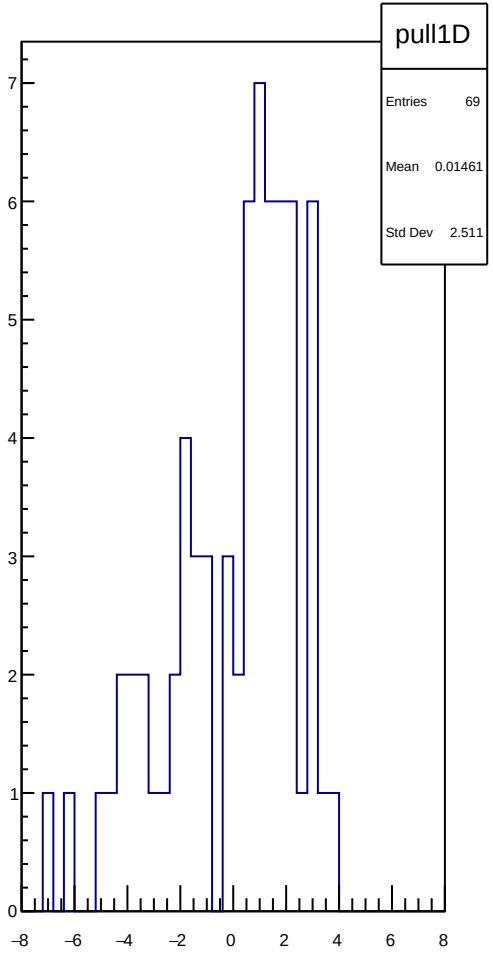

asym_bpm0l07WS_rms vs run
χ² / ndf 4249 / 68
p0 242.4 ± 0.2082
280
270
260
250
240
230
220
210

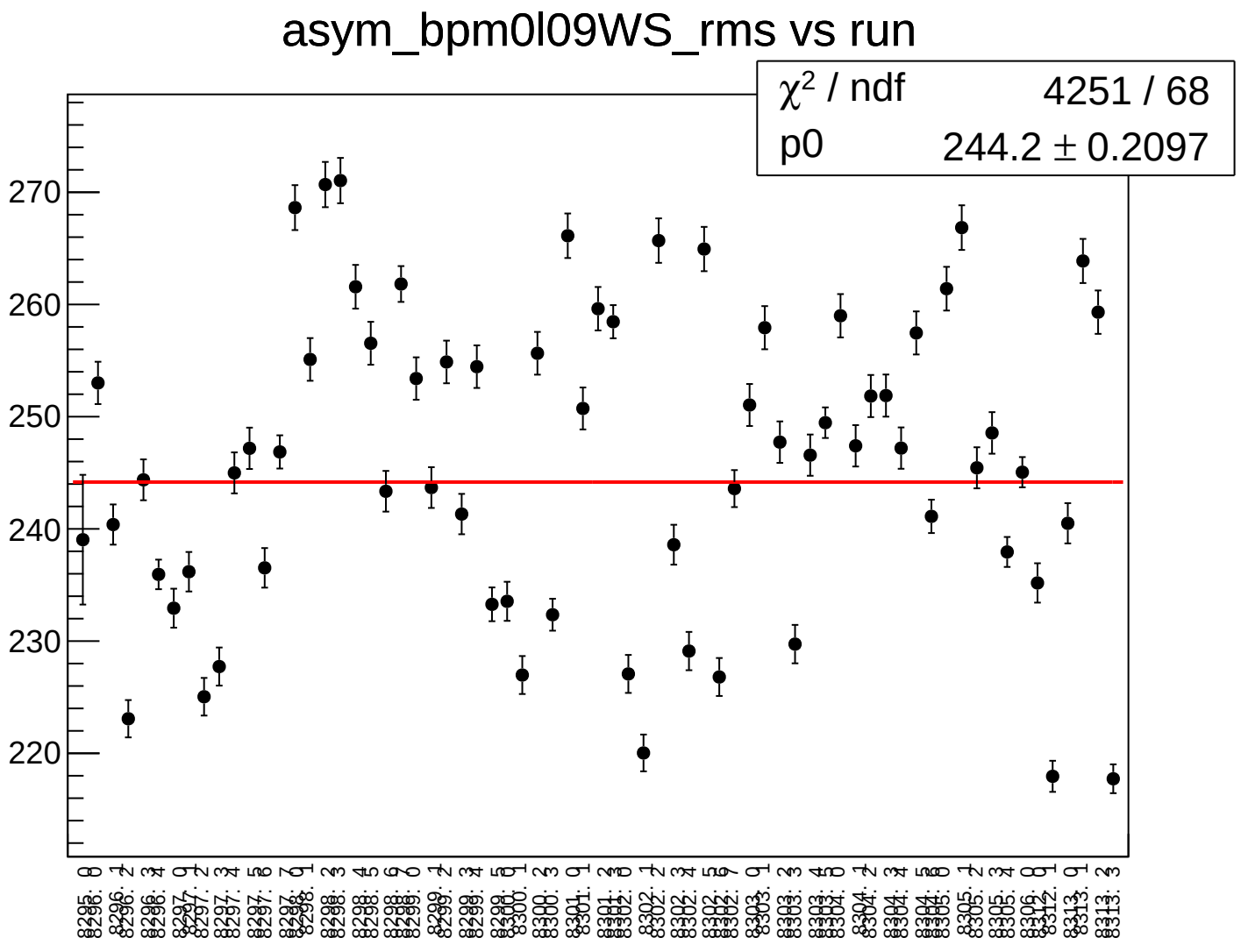

asym_bpm0l08WS_mean vs run
χ² / ndf 460.7 / 68
p0 −497.9 ± 293.6
pull
Entries 69
Mean −225.2
Std Dev 266.4

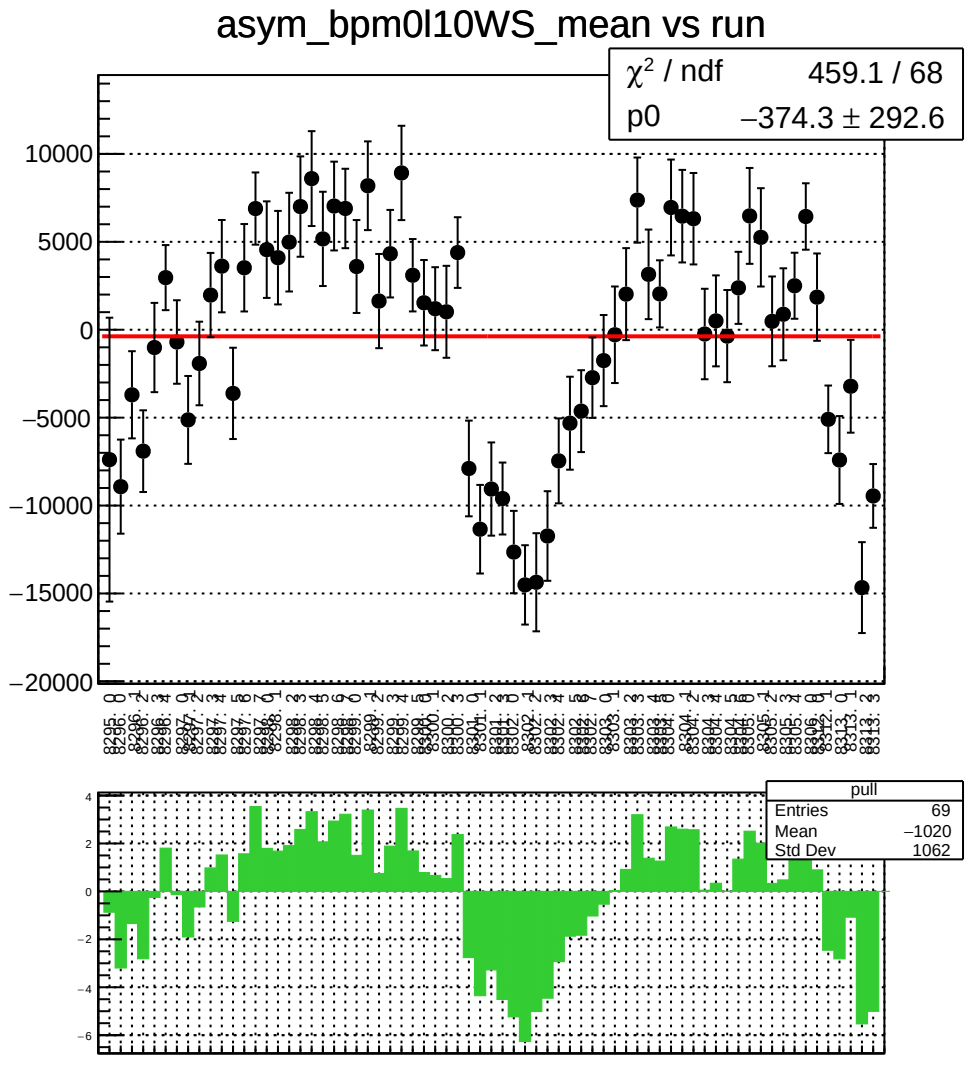

pull1D
Entries 69
Mean 0.02685
Std Dev 2.584

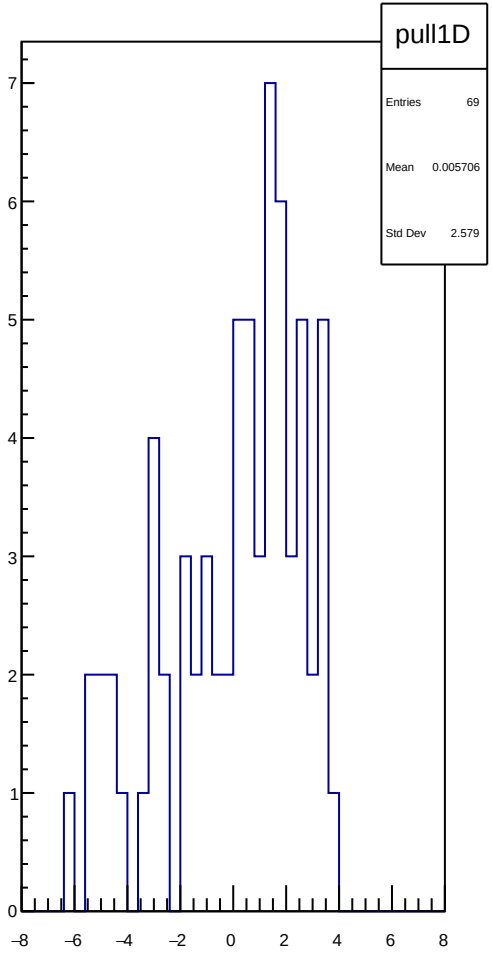

asym_bpm0l08WS_rms vs run
χ² / ndf 4085 / 68
p0 241.7 ± 0.2076
280
270
260
250
240
230
220

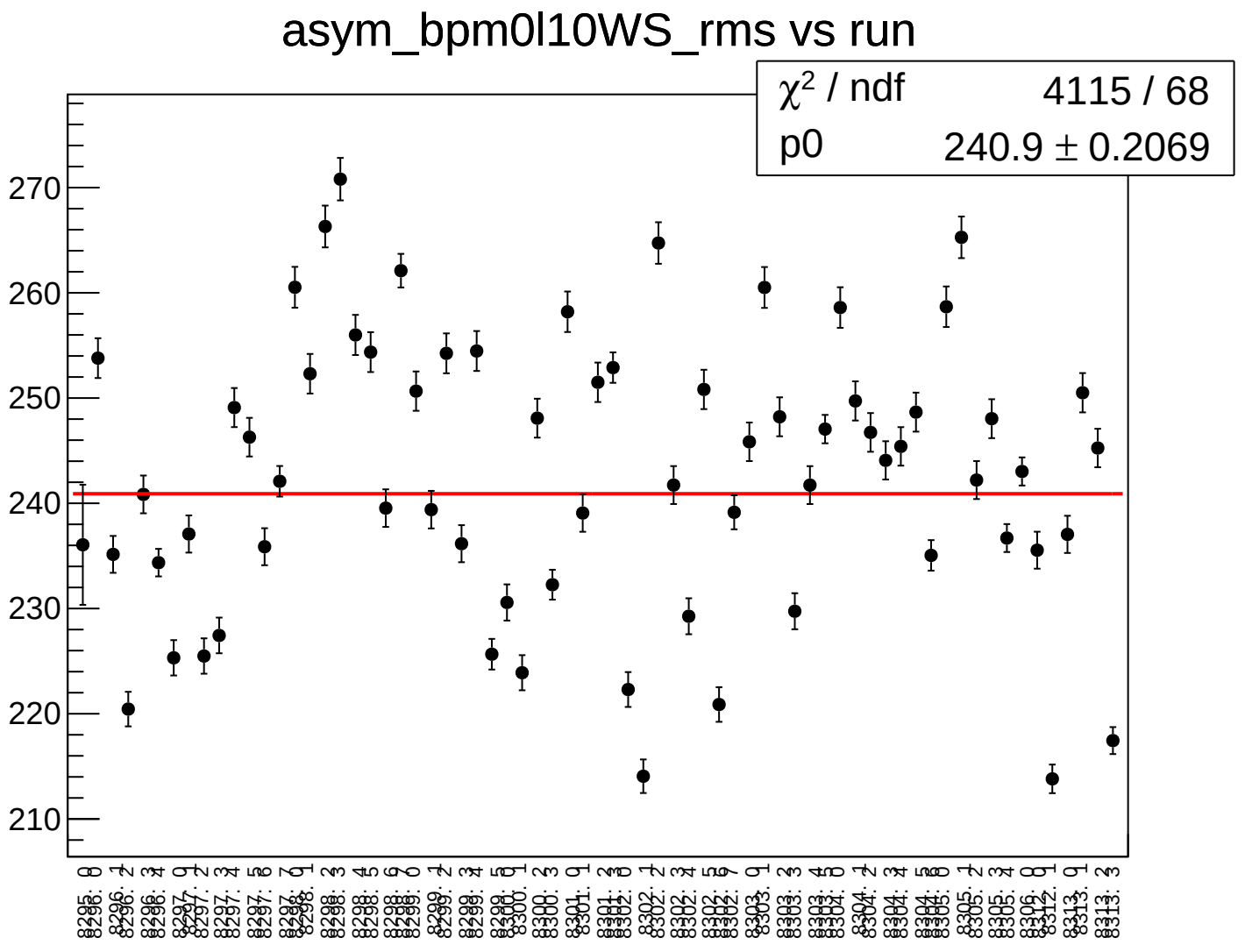

asym_bpm0l09WS_mean vs run
χ² / ndf 435 / 68
p0 −379.9 ± 296.6
pull
Entries 69
Mean −383.9
Std Dev 425

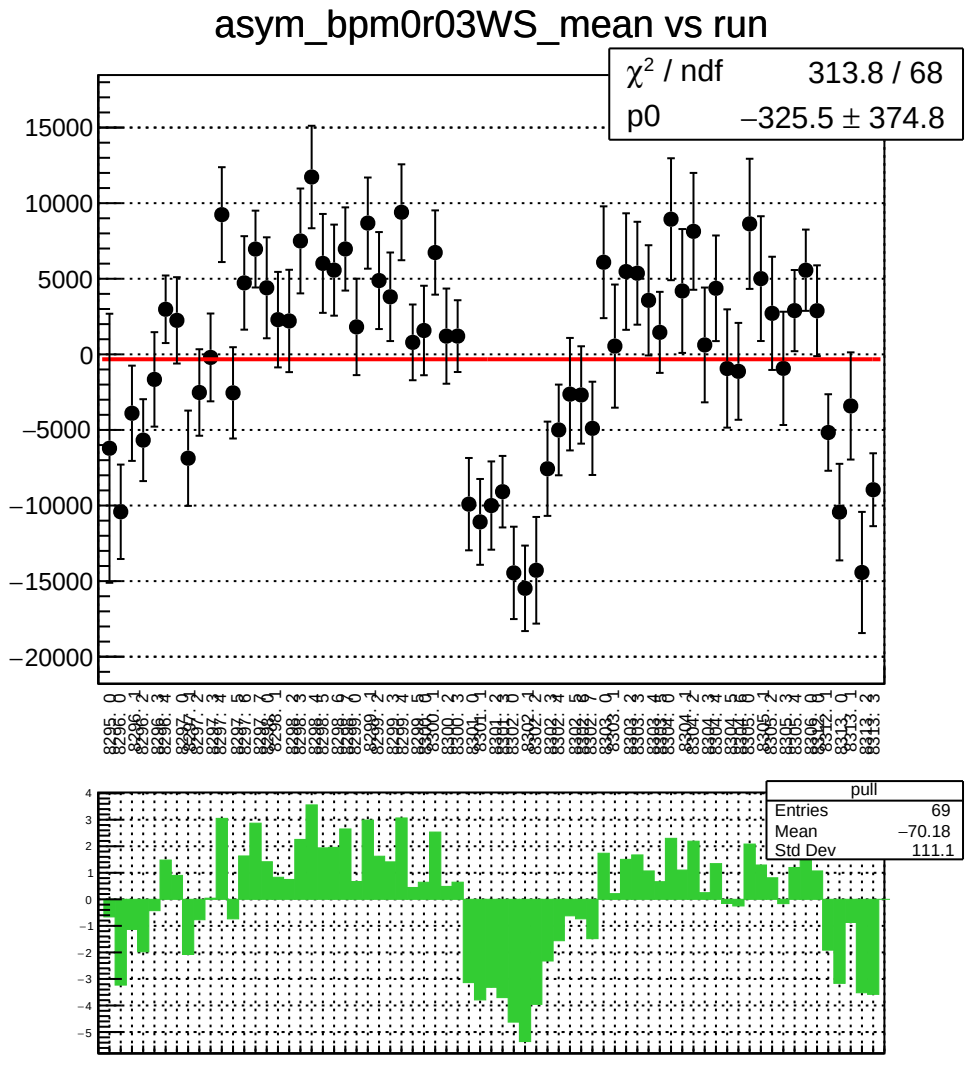

pull1D
Entries 69
Mean 0.01461
Std Dev 2.511

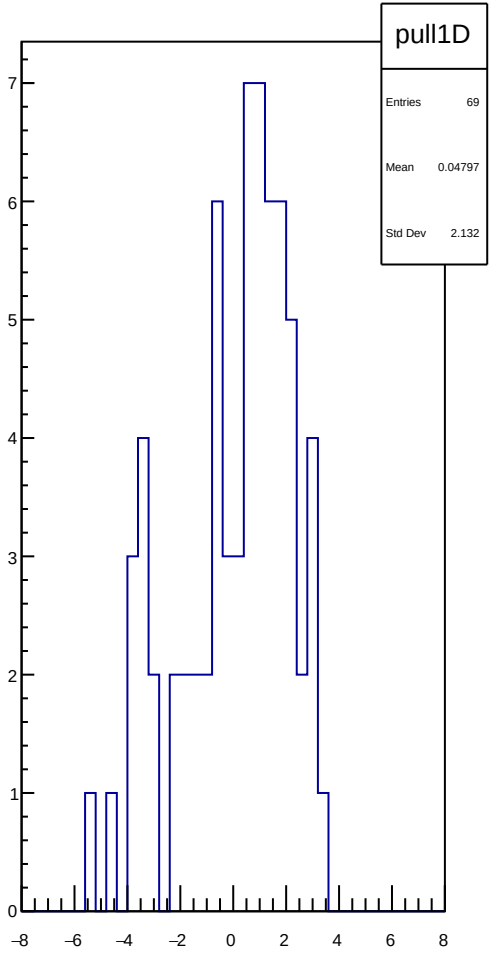

asym_bpm0l09WS_rms vs run
χ² / ndf 4251 / 68
p0 244.2 ± 0.2097
270
260
250
240
230
220

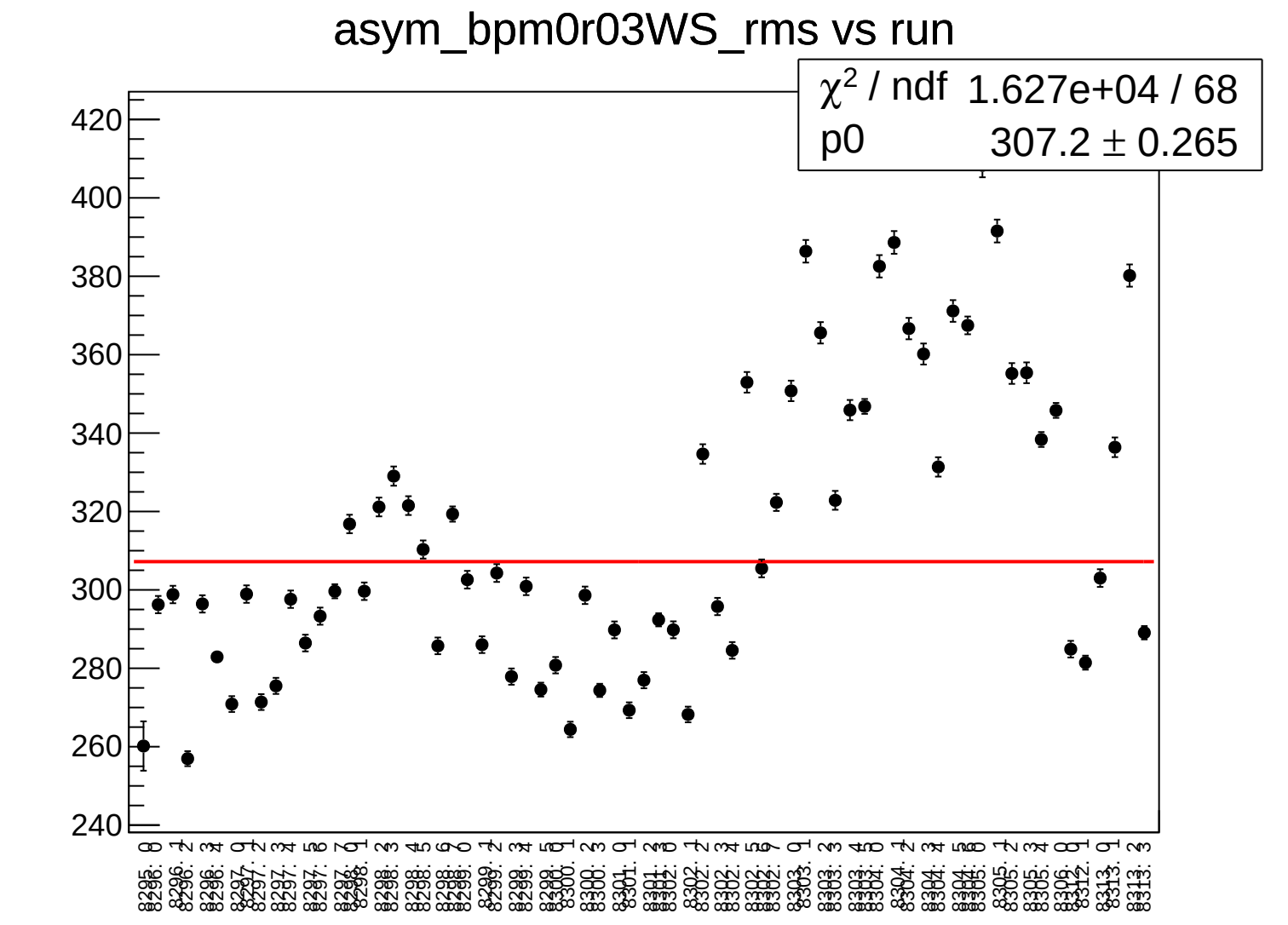

asym_bpm0l10WS_mean vs run
χ² / ndf 459.1 / 68
p0 −374.3 ± 292.6
pull
Entries 69
Mean −1020
Std Dev 1062

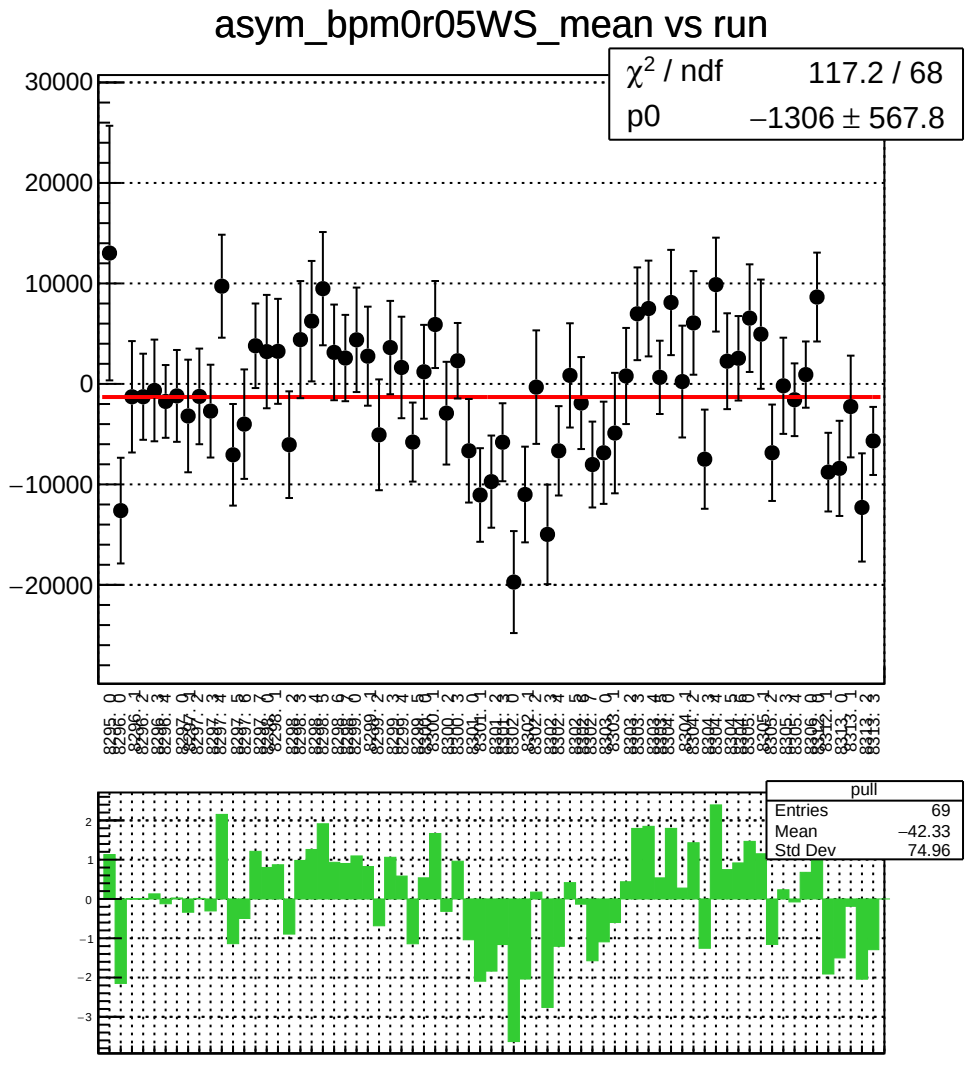

pull1D
Entries 69
Mean 0.005706
Std Dev 2.579

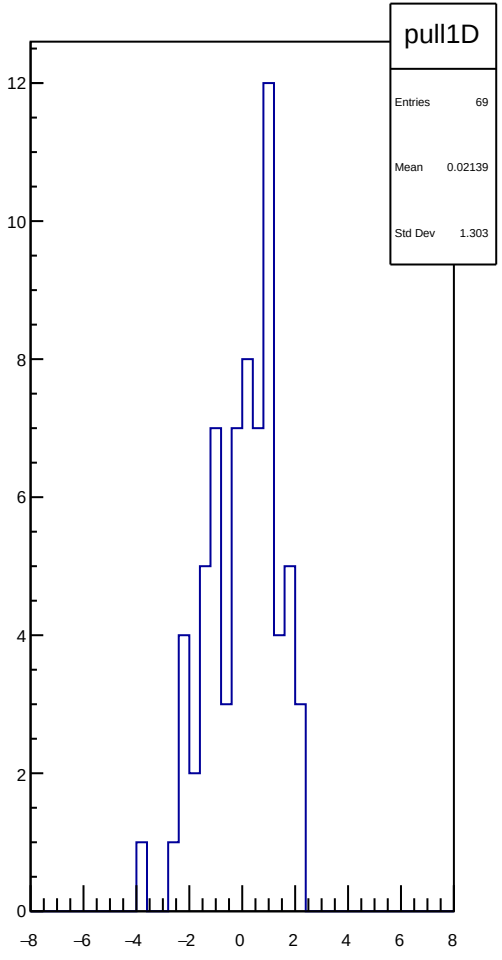

asym_bpm0l10WS_rms vs run
χ² / ndf 4115 / 68
p0 240.9 ± 0.2069
270
260
250
240
230
220
210

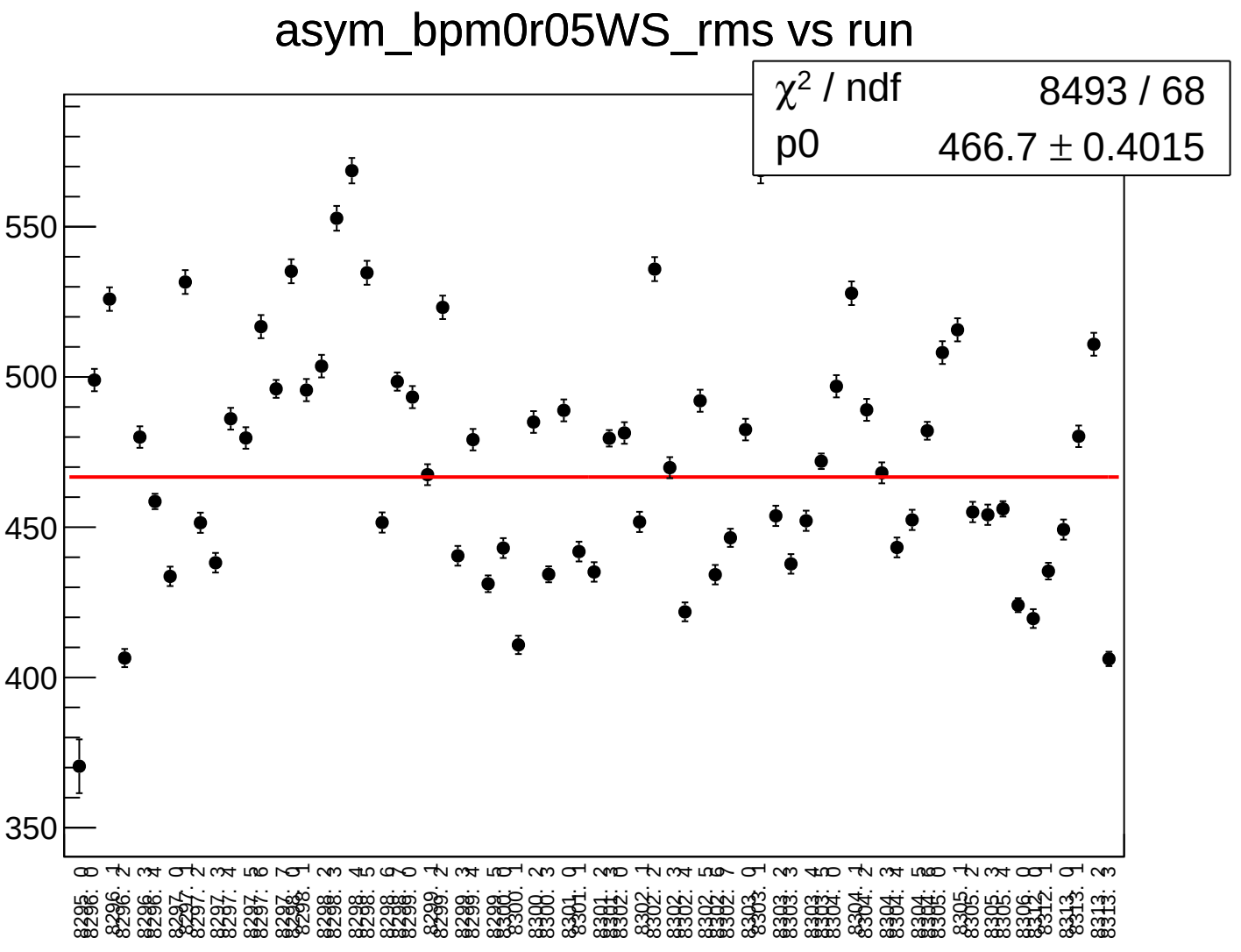

asym_bpm0r03WS_mean vs run
χ² / ndf 313.8 / 68
p0 −325.5 ± 374.8
pull
Entries 69
Mean −70.18
Std Dev 111.1

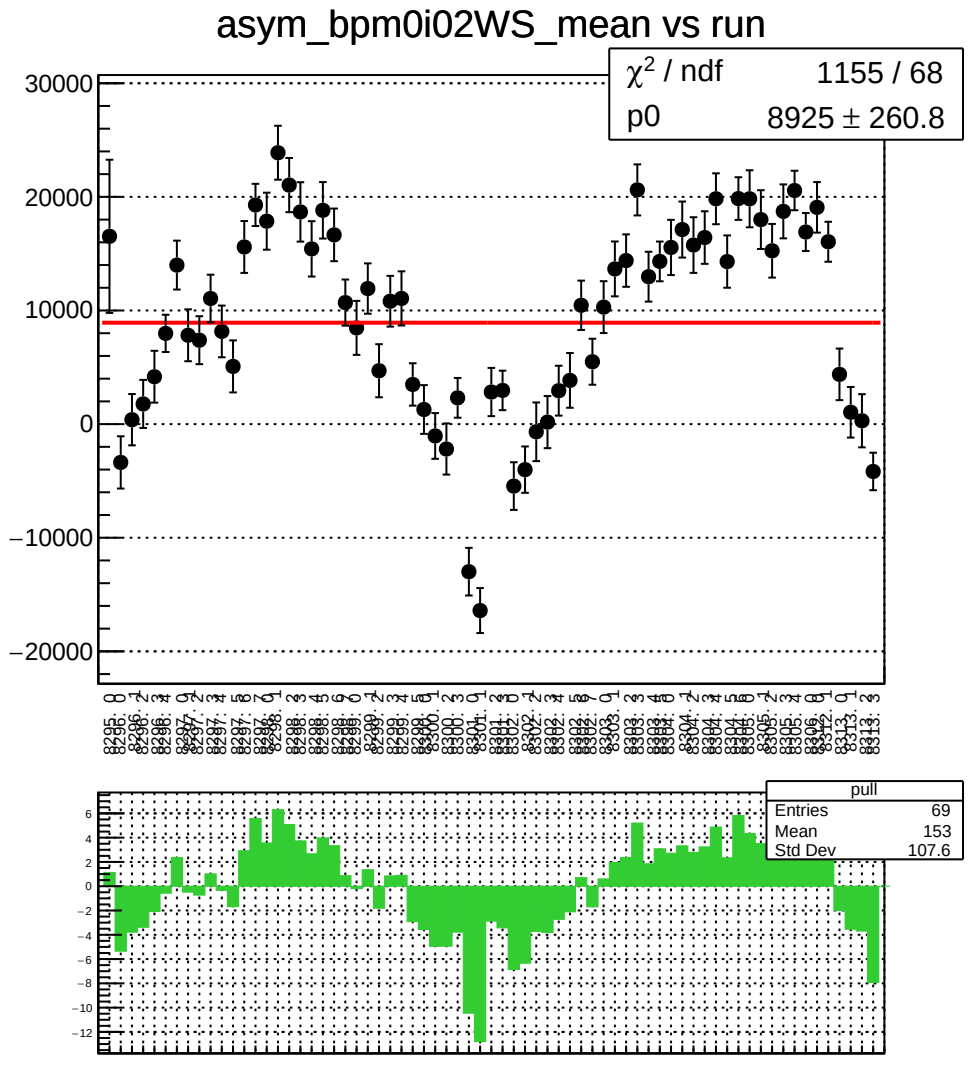

pull1D
Entries 69
Mean 0.04797
Std Dev 2.132

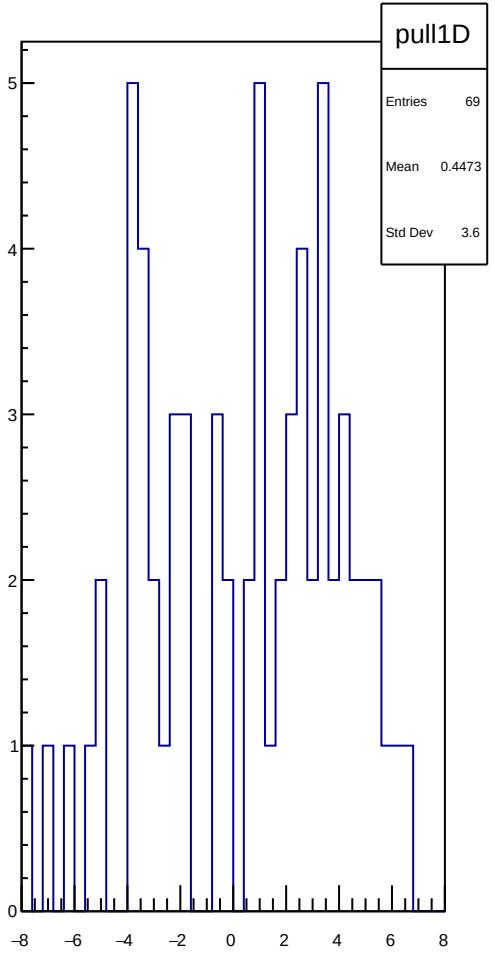

asym_bpm0r03WS_rms vs run
χ² / ndf 1.627e+04 / 68
p0 307.2 ± 0.265
420
400
380
360
340
320
300
280
260
240

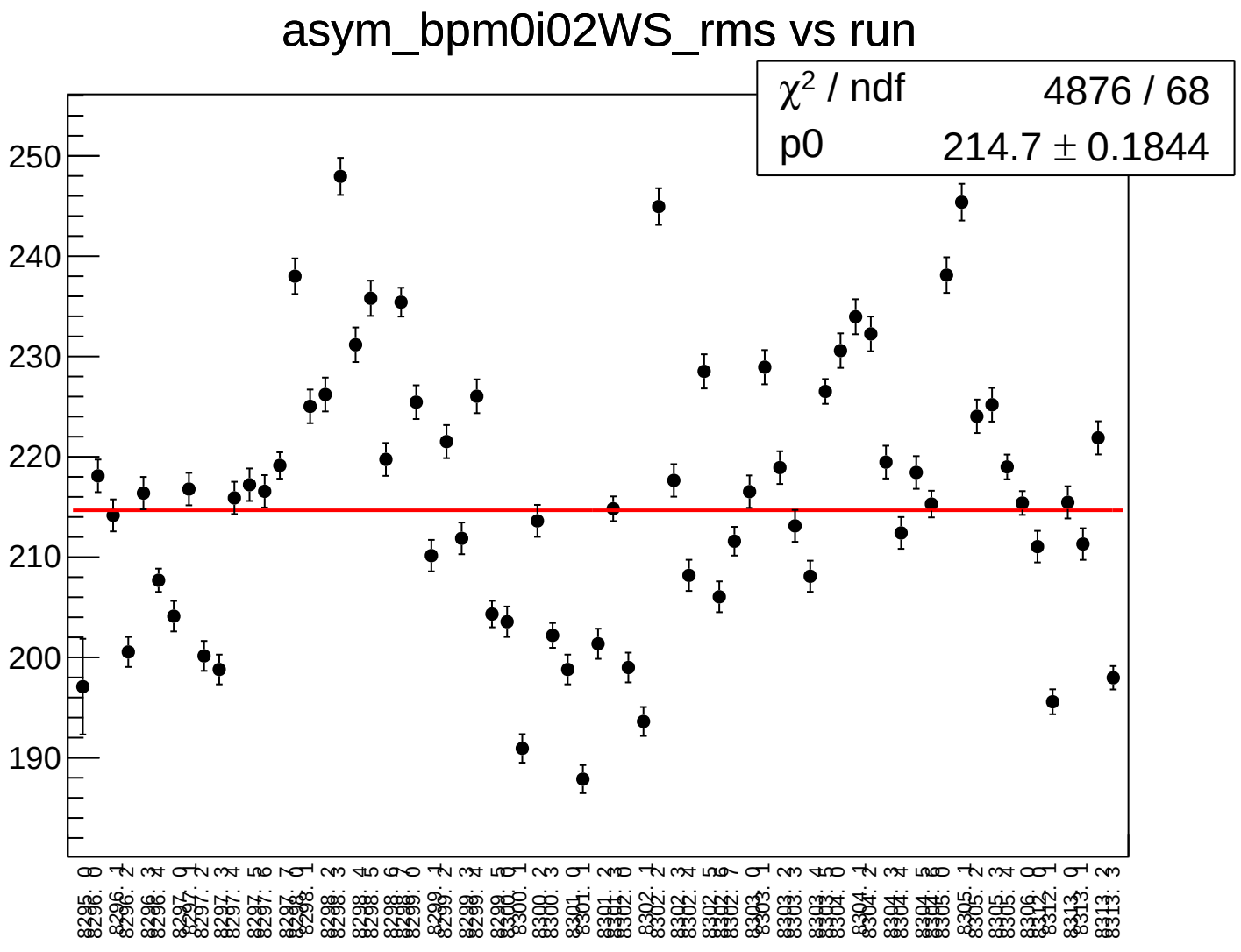

asym_bpm0r05WS_mean vs run
χ² / ndf 117.2 / 68
p0 −1306 ± 567.8
30000
20000
10000
0
−10000
−20000
pull
Entries 69
Mean −42.33
Std Dev 74.96
2
1
0
−1
−2
−3

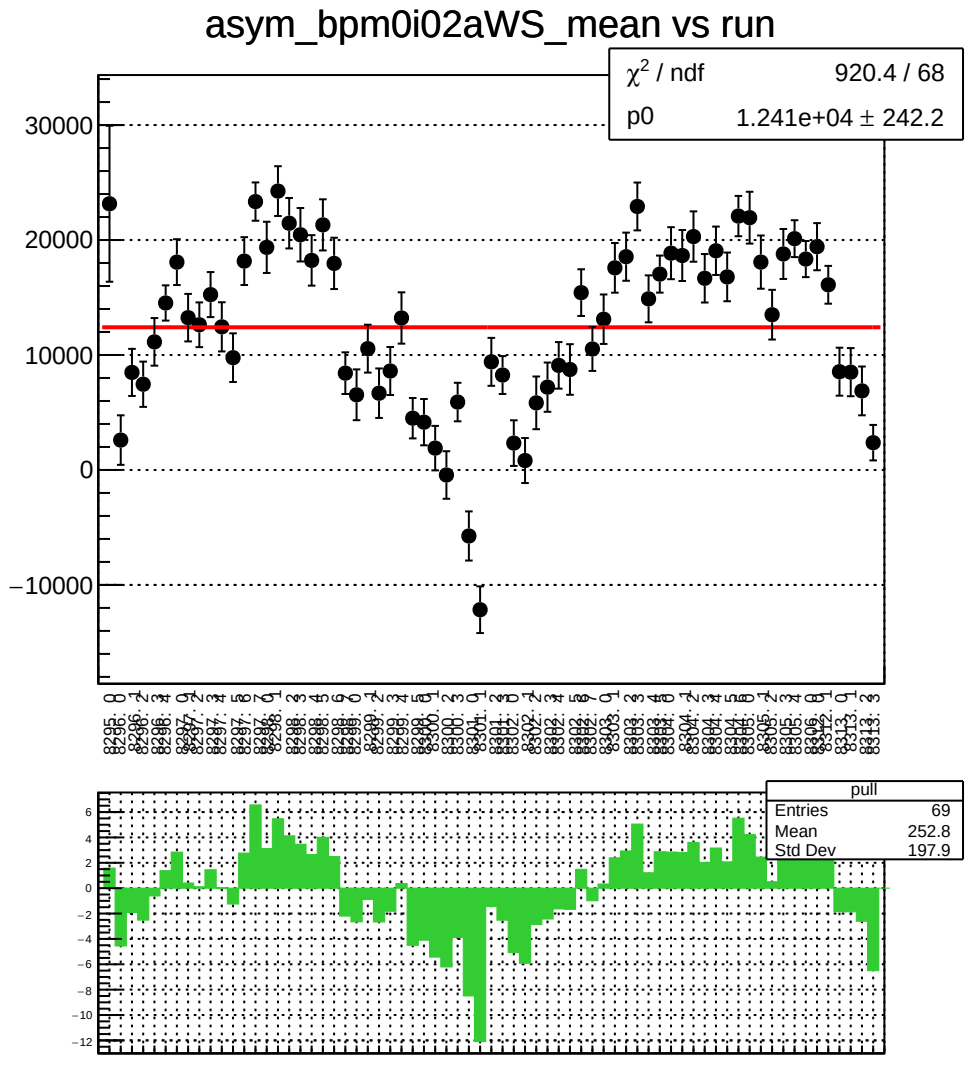

pull1D
Entries 69
Mean 0.02139
Std Dev 1.303
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

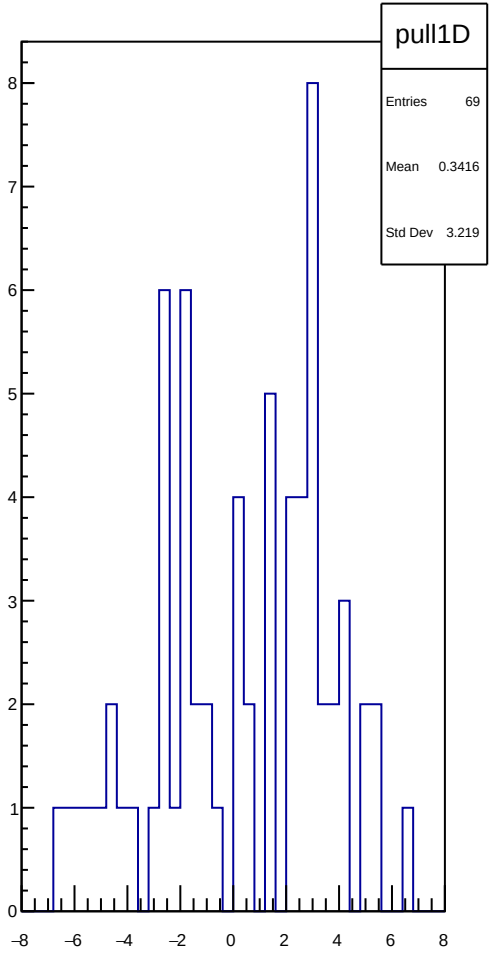

asym_bpm0r05WS_rms vs run
χ² / ndf 8493 / 68
p0 466.7 ± 0.4015
550
500
450
400
350

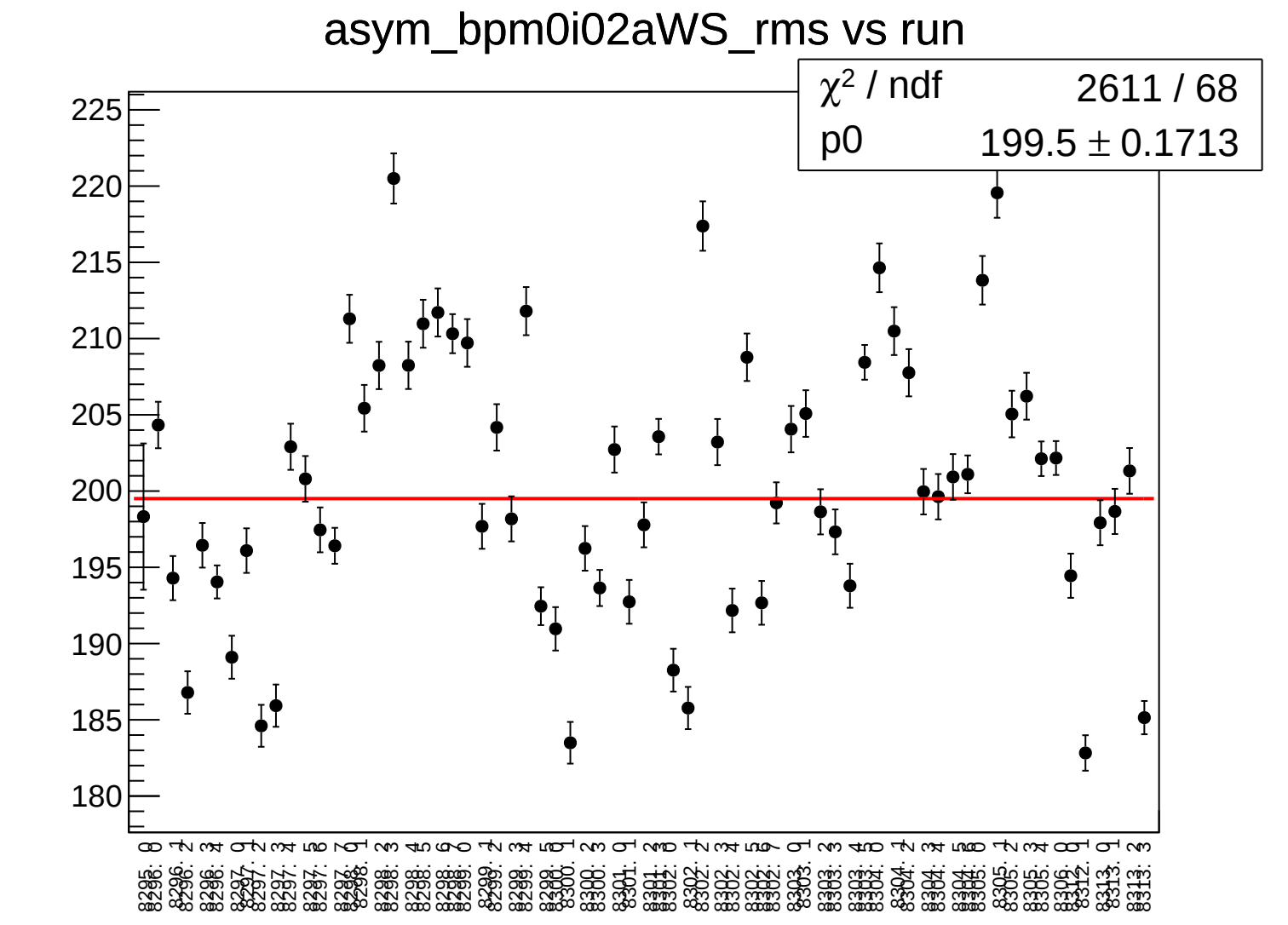

asym_bpm0i02WS_mean vs run
χ² / ndf 1155 / 68
p0 8925 ± 260.8
pull
Entries 69
Mean 153
Std Dev 107.6

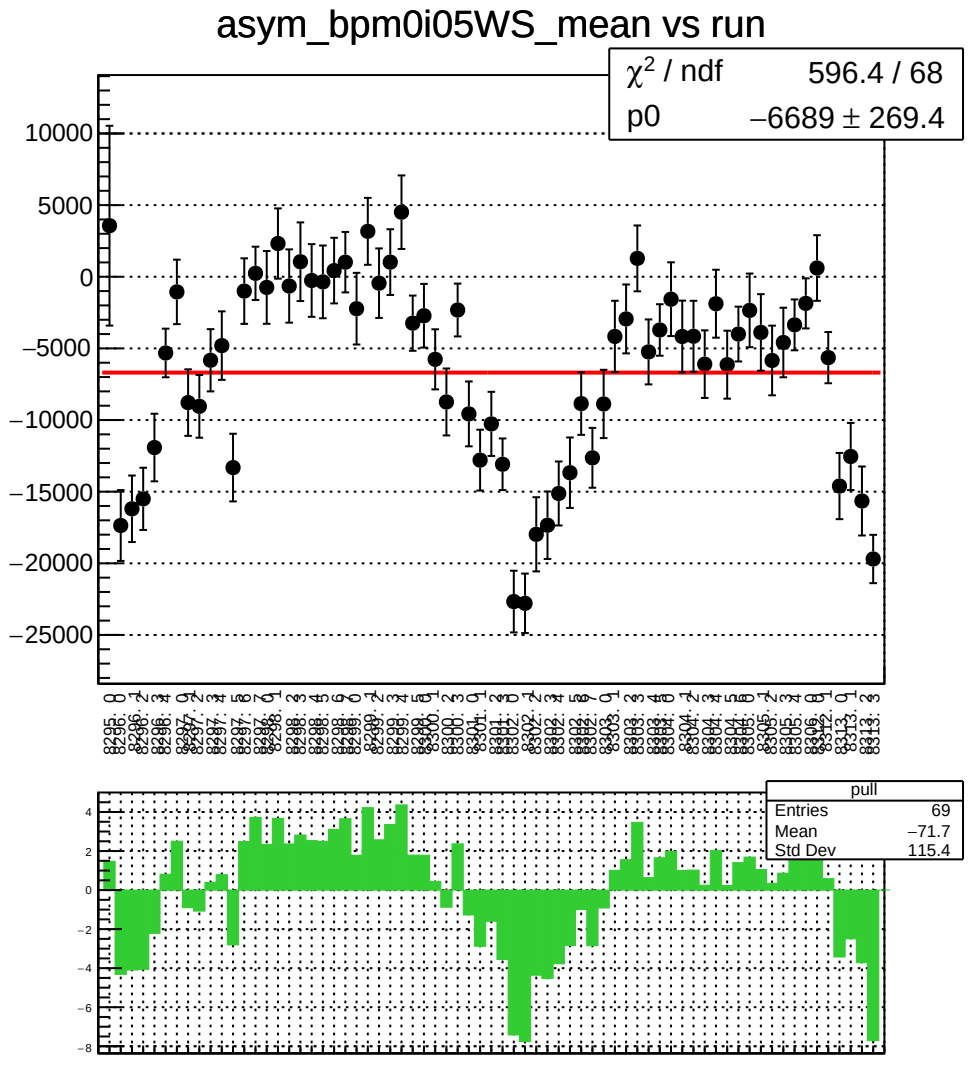

pull1D
Entries 69
Mean 0.4473
Std Dev 3.6

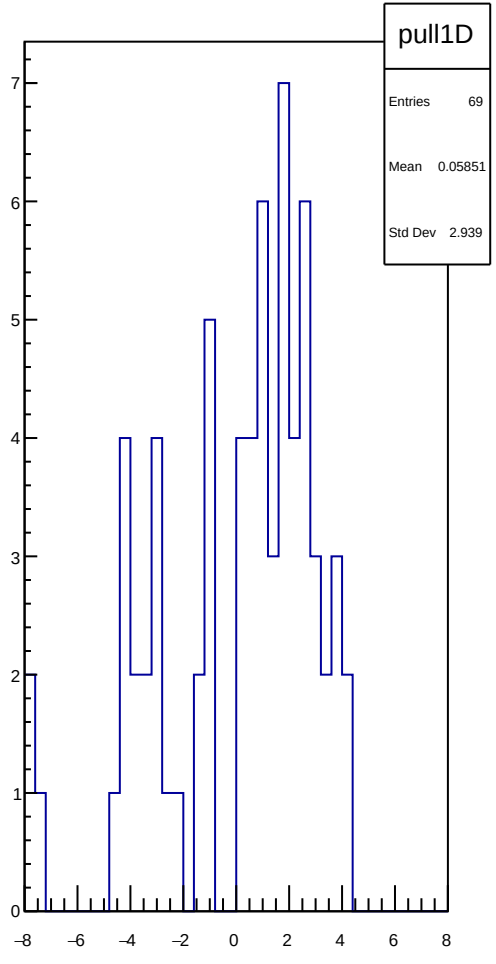

asym_bpm0i02WS_rms vs run
χ² / ndf 4876 / 68
p0 214.7 ± 0.1844
250
240
230
220
210
200
190

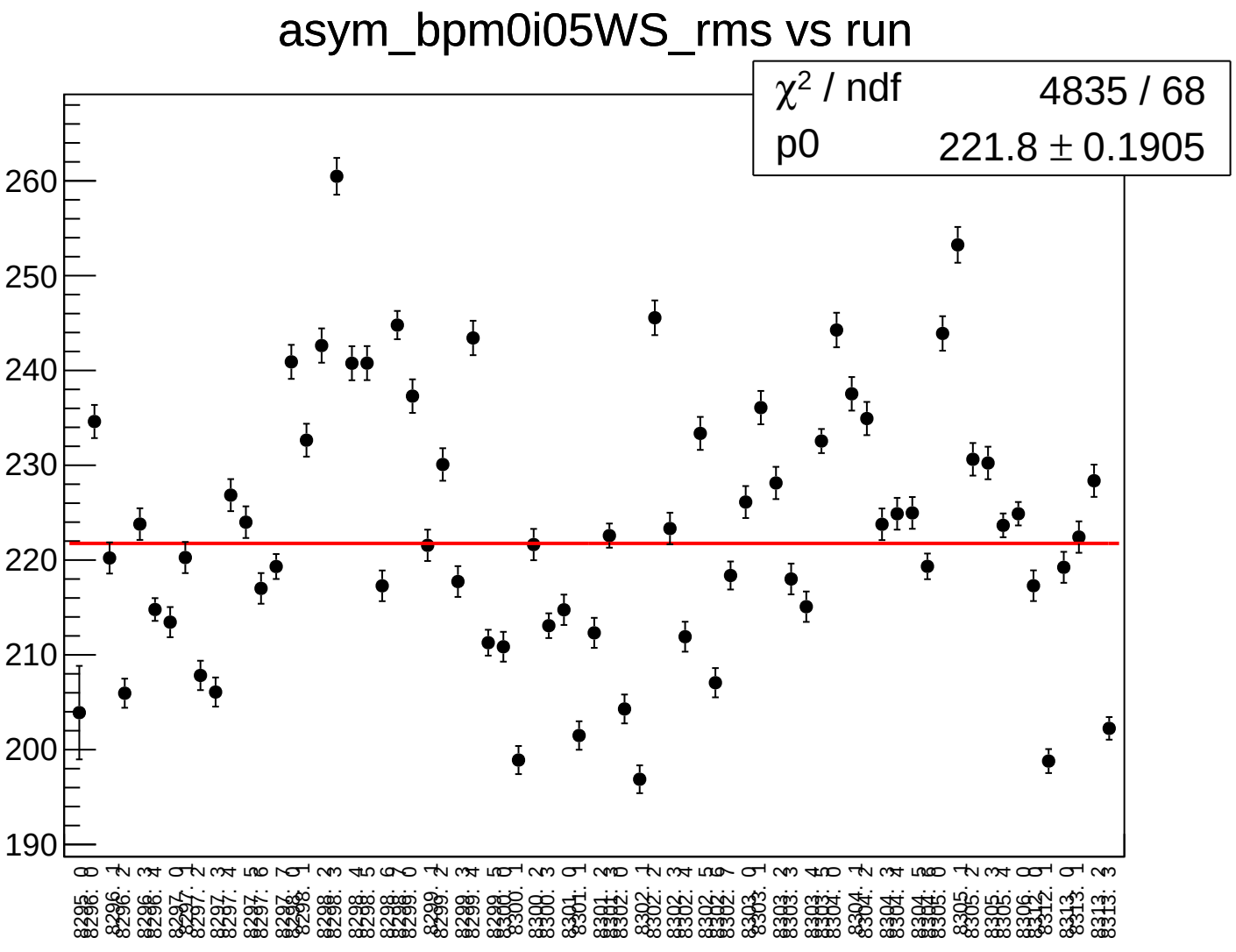

asym_bpm0i02aWS_mean vs run
χ² / ndf 920.4 / 68
p0 1.241e+04 ± 242.2
30000
20000
10000
0
−10000
pull
Entries 69
Mean 252.8
Std Dev 197.9
6
4
2
0
−2
−4
−6
−8
−10
−12

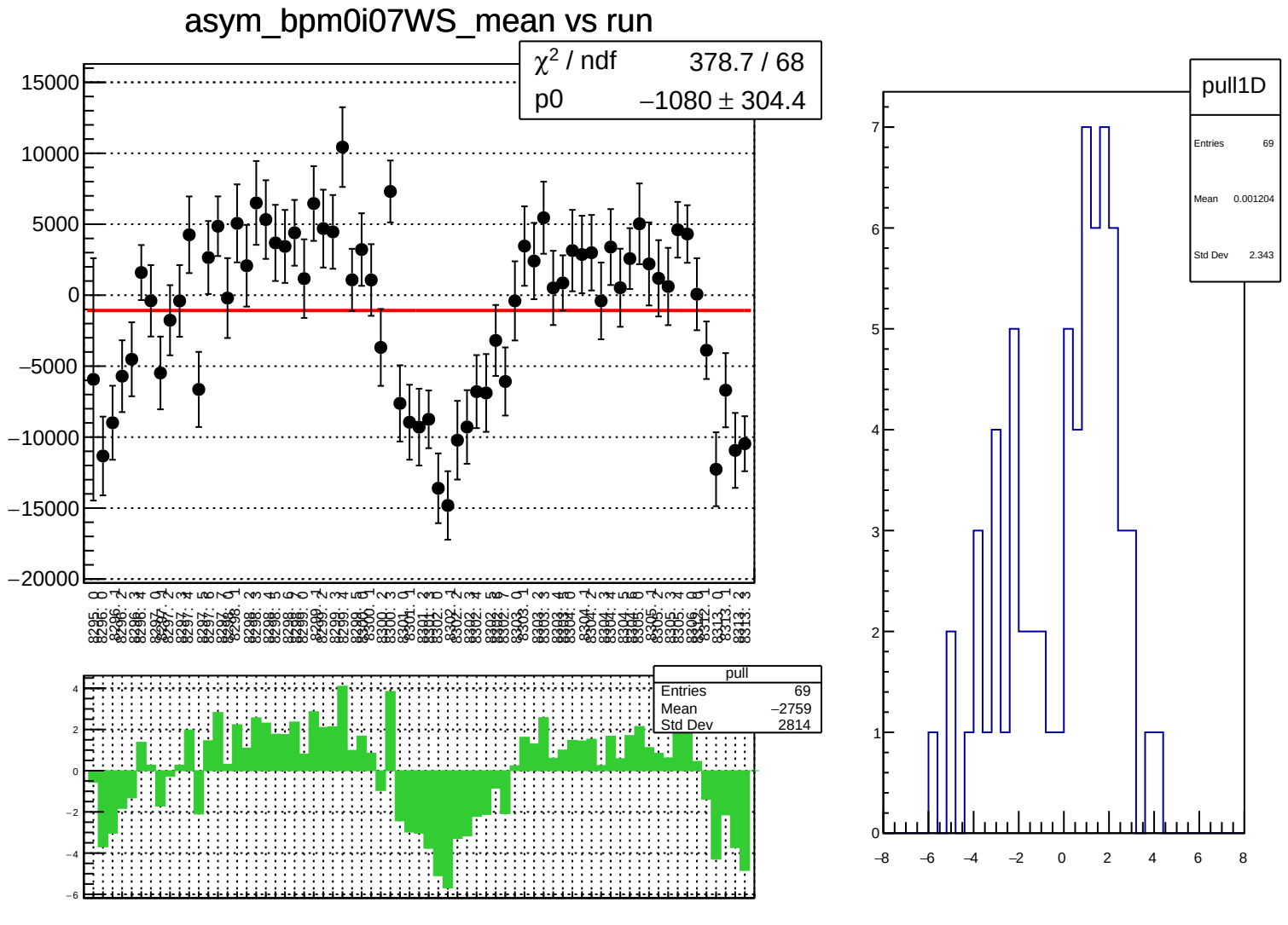

pull1D
Entries 69
Mean 0.3416
Std Dev 3.219
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

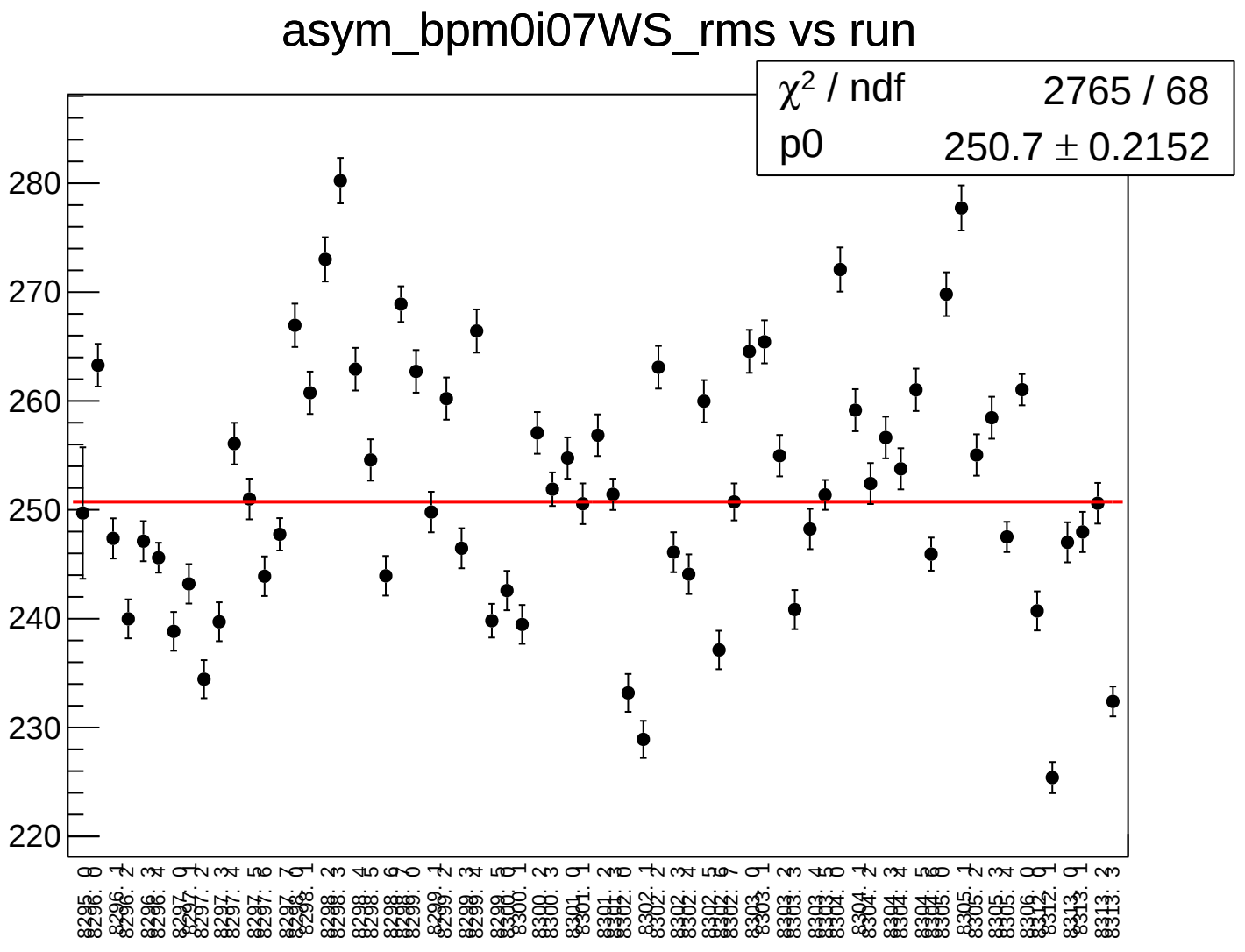

asym_bpm0i02aWS_rms vs run
χ² / ndf 2611 / 68
p0 199.5 ± 0.1713
225
220
215
210
205
200
195
190
185
180

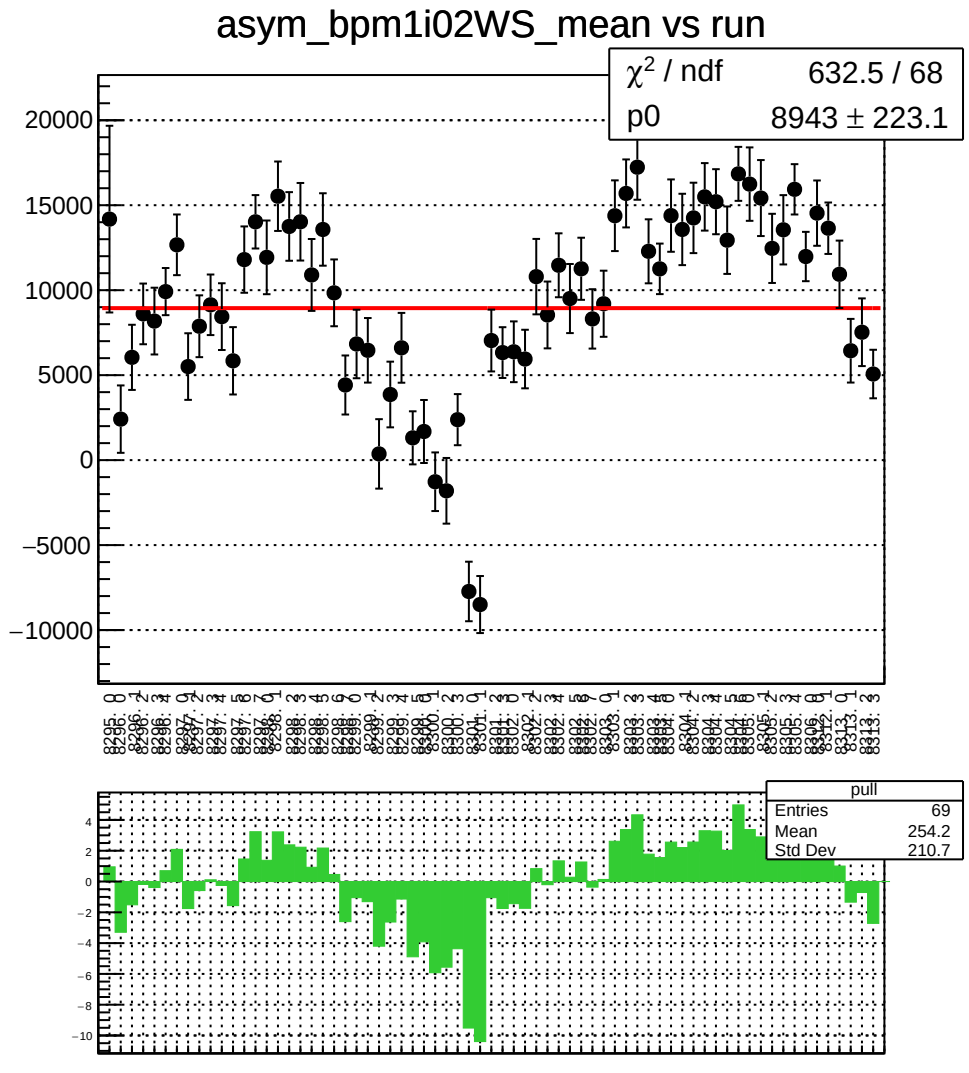

asym_bpm0i05WS_mean vs run
χ² / ndf 596.4 / 68
p0 −6689 ± 269.4
pull
Entries 69
Mean −71.7
Std Dev 115.4

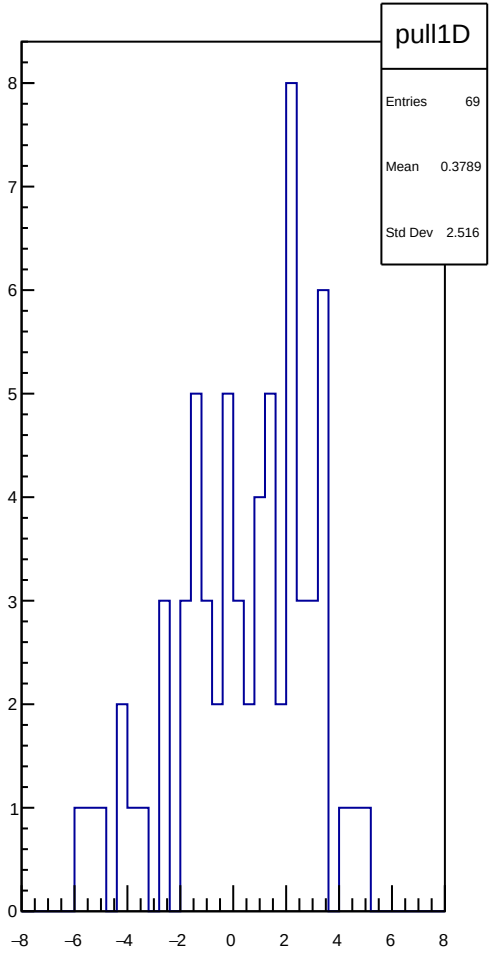

pull1D
Entries 69
Mean 0.05851
Std Dev 2.939

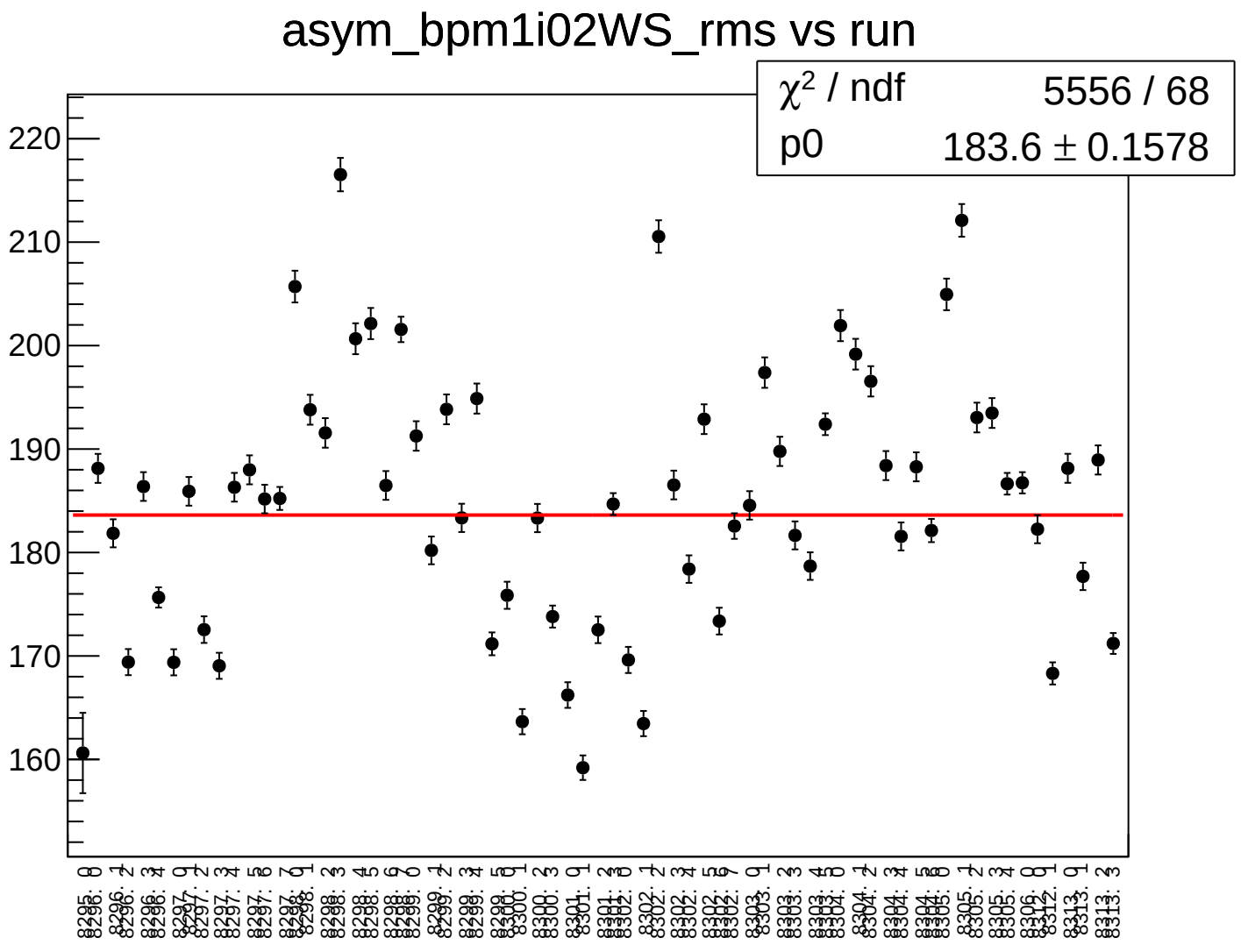

asym_bpm0i05WS_rms vs run
χ² / ndf 4835 / 68
p0 221.8 ± 0.1905
260
250
240
230
220
210
200
190

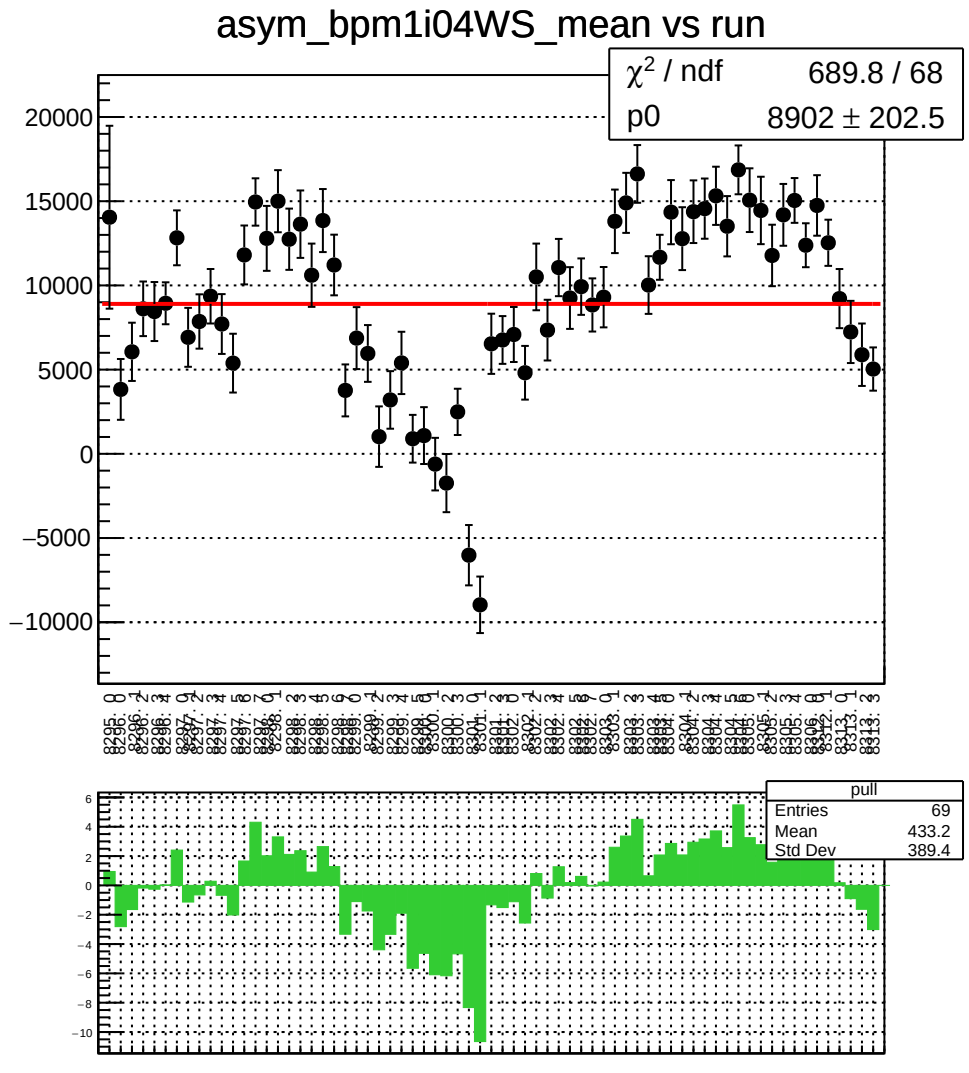

asym_bpm0i07WS_mean vs run
χ² / ndf 378.7 / 68
p0 −1080 ± 304.4
pull
Entries 69
Mean −2759
Std Dev 2814
pull1D
Entries 69
Mean 0.001204
Std Dev 2.343

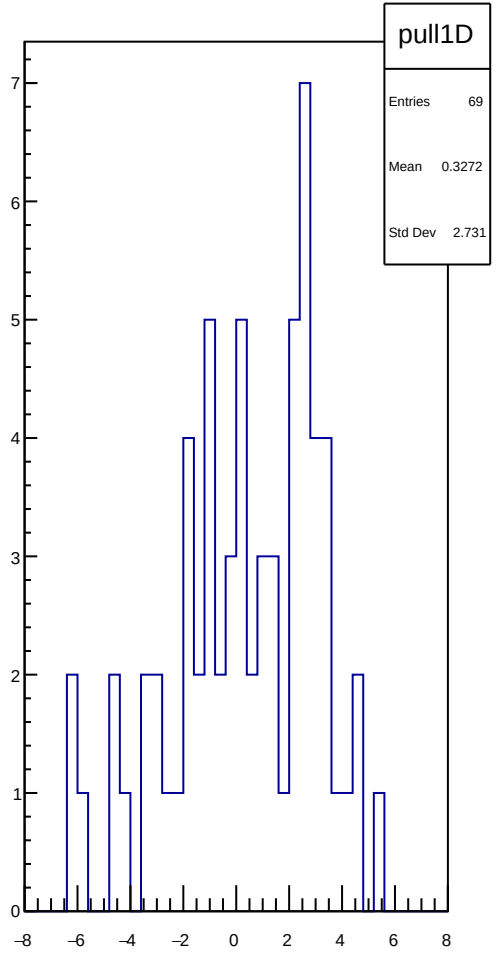

asym_bpm0i07WS_rms vs run
χ² / ndf 2765 / 68
p0 250.7 ± 0.2152
280
270
260
250
240
230
220

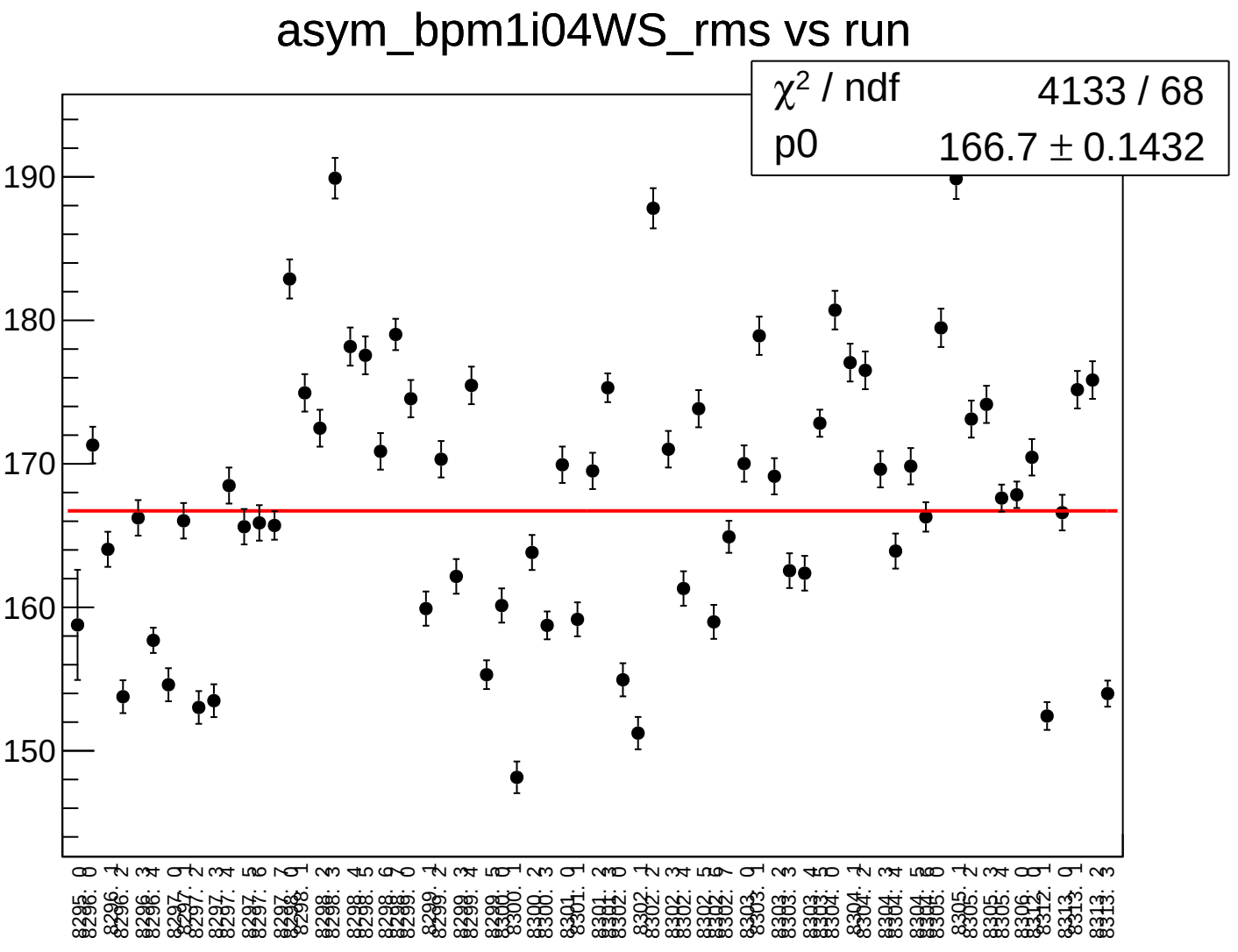

asym_bpm1i02WS_mean vs run
χ² / ndf 632.5 / 68
p0 8943 ± 223.1
pull
Entries 69
Mean 254.2
Std Dev 210.7

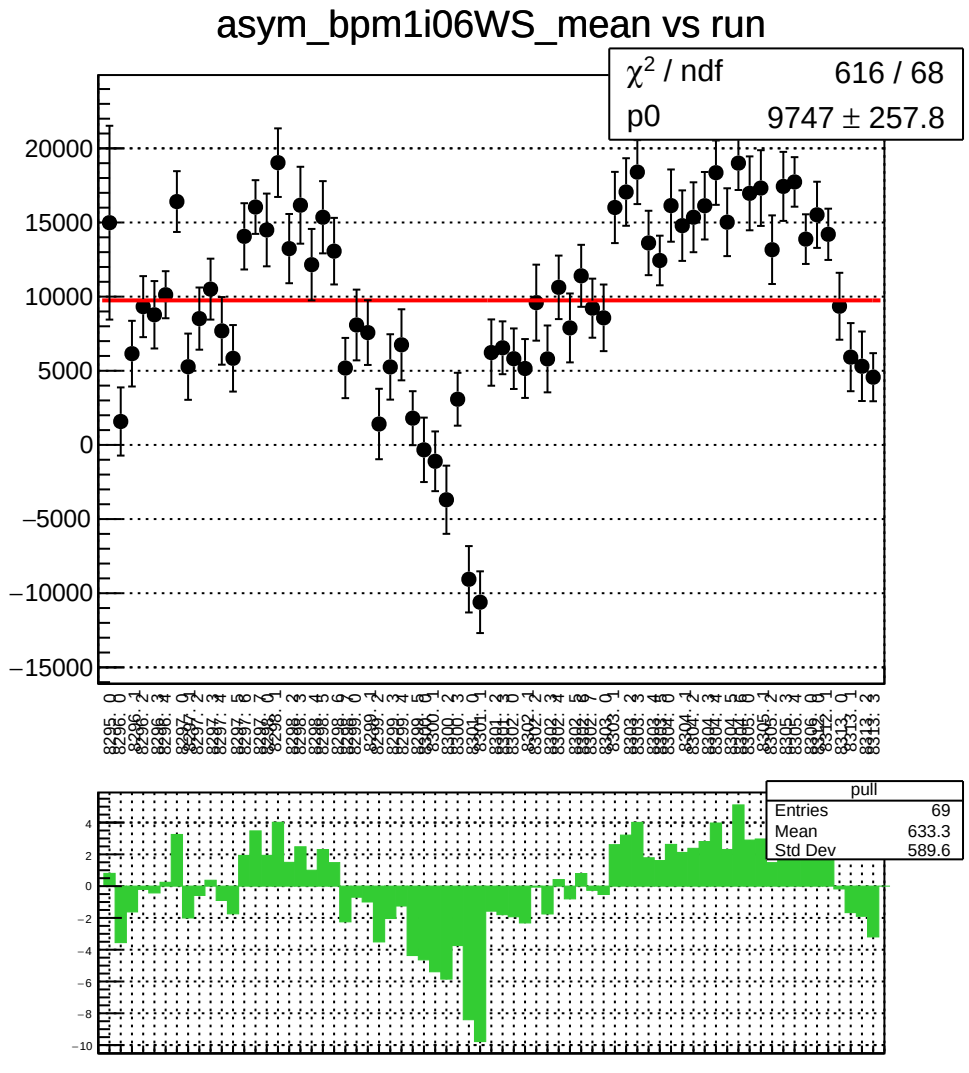

pull1D
Entries 69
Mean 0.3789
Std Dev 2.516

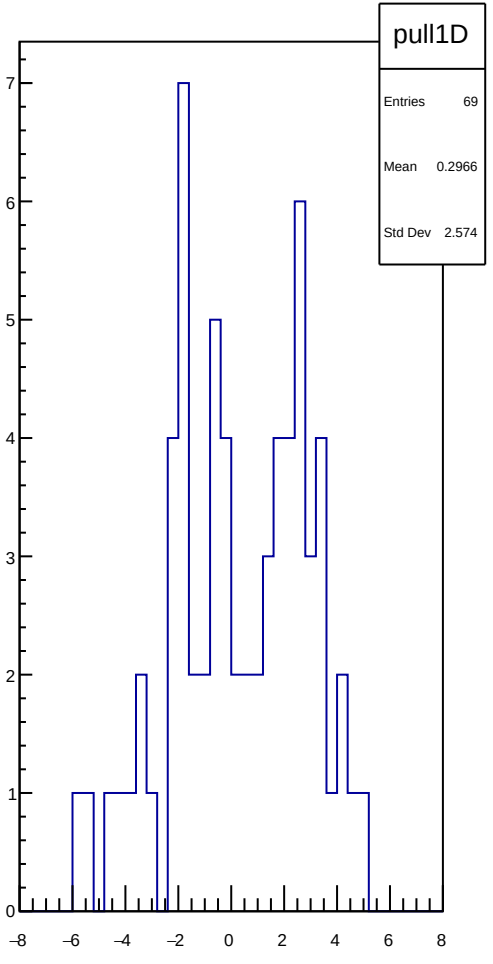

asym_bpm1i02WS_rms vs run
χ² / ndf 5556 / 68
p0 183.6 ± 0.1578
220
210
200
190
180
170
160

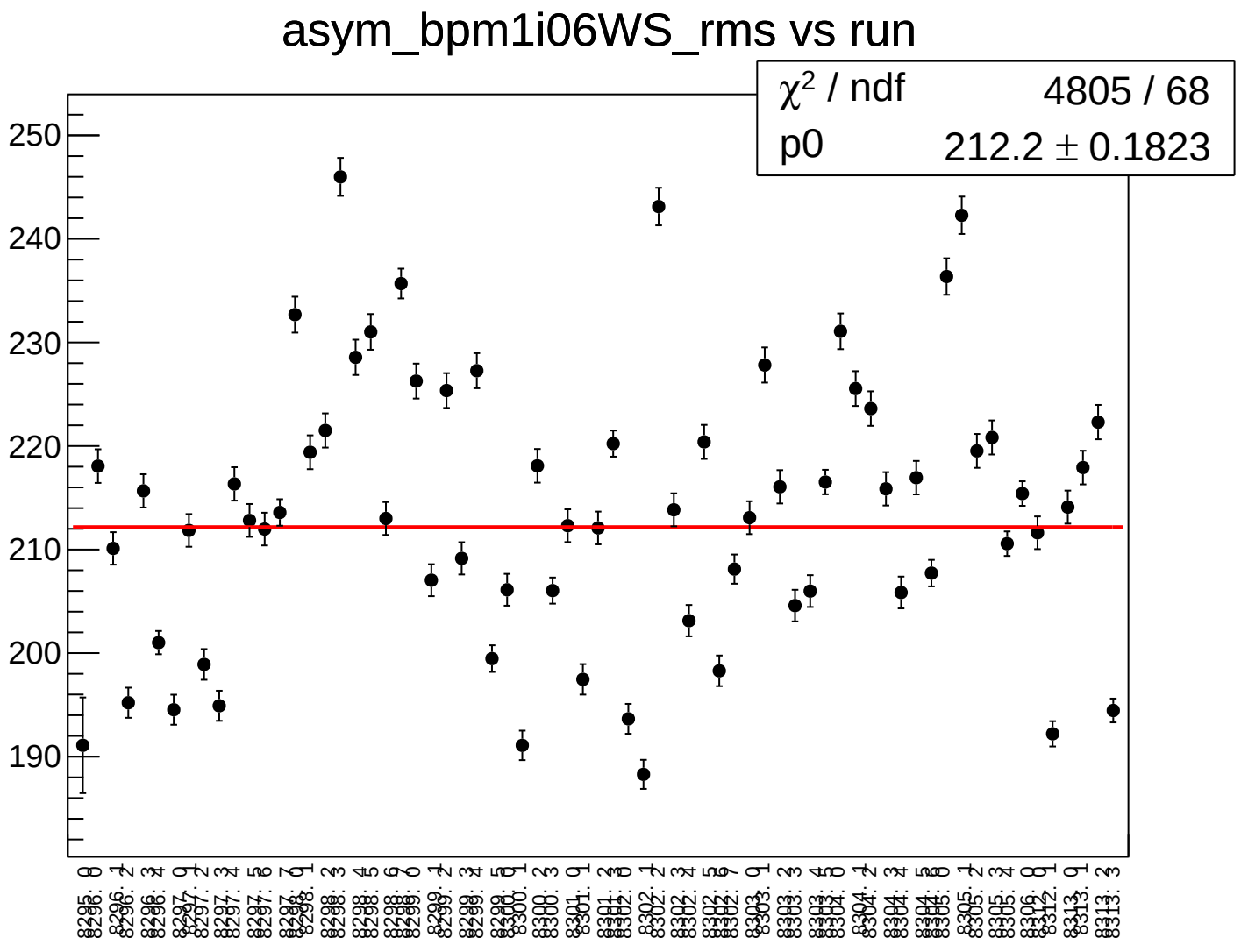

asym_bpm1i04WS_mean vs run
χ² / ndf 689.8 / 68
p0 8902 ± 202.5
pull
Entries 69
Mean 433.2
Std Dev 389.4

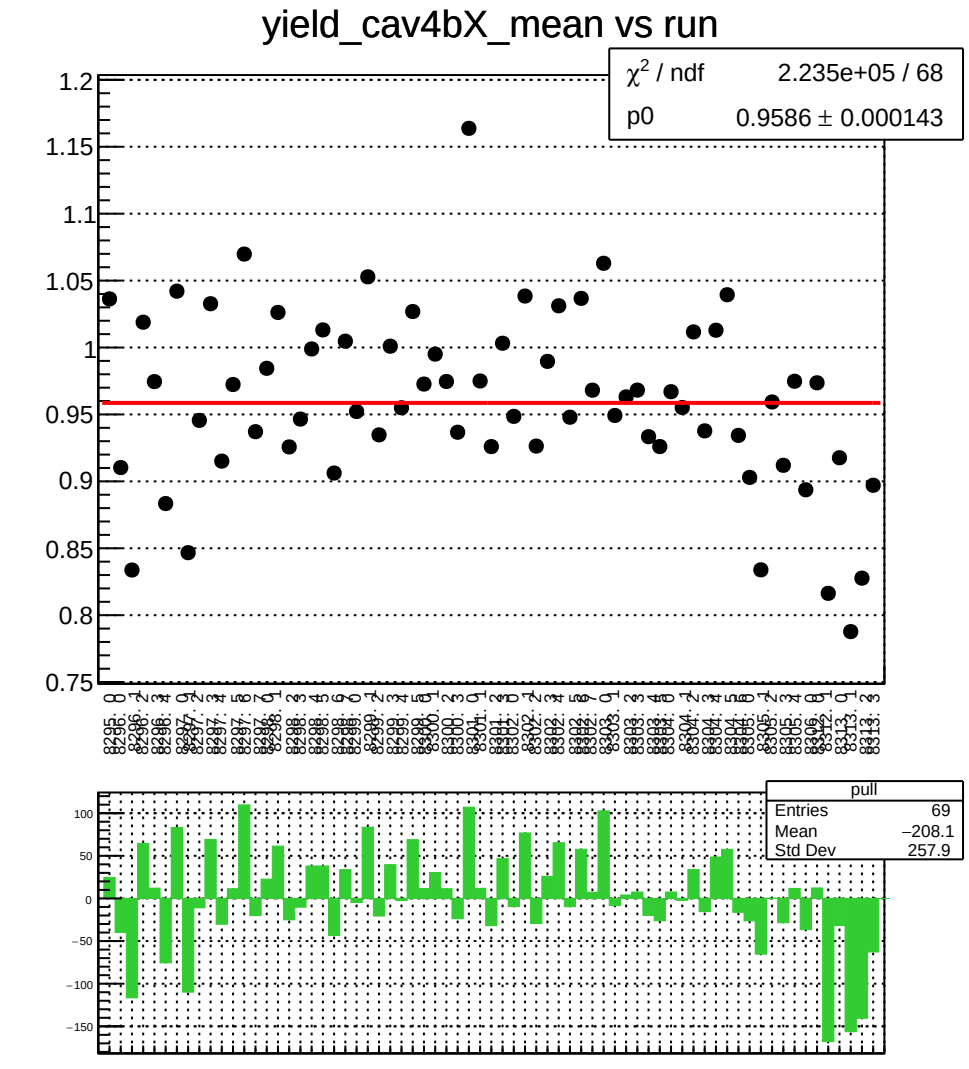

pull1D
Entries 69
Mean 0.3272
Std Dev 2.731

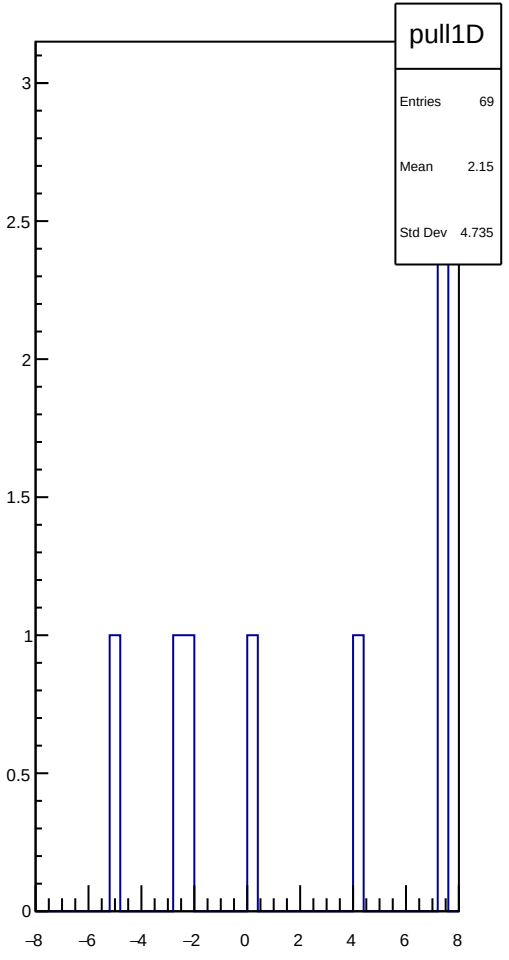

asym_bpm1i04WS_rms vs run
χ² / ndf 4133 / 68
p0 166.7 ± 0.1432
190
180
170
160
150

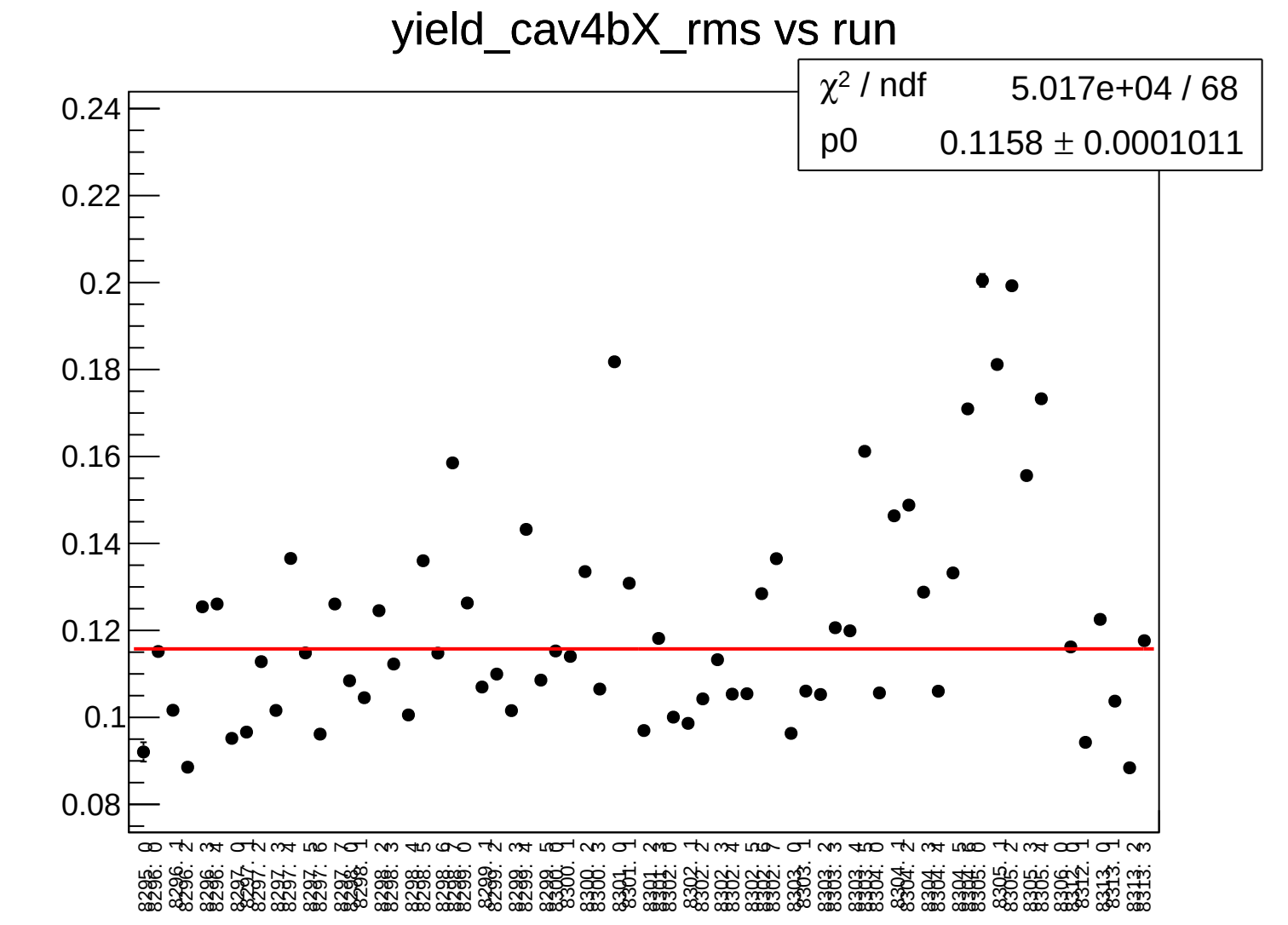

asym_bpm1i06WS_mean vs run
χ² / ndf 616 / 68
p0 9747 ± 257.8
pull
Entries 69
Mean 633.3
Std Dev 589.6

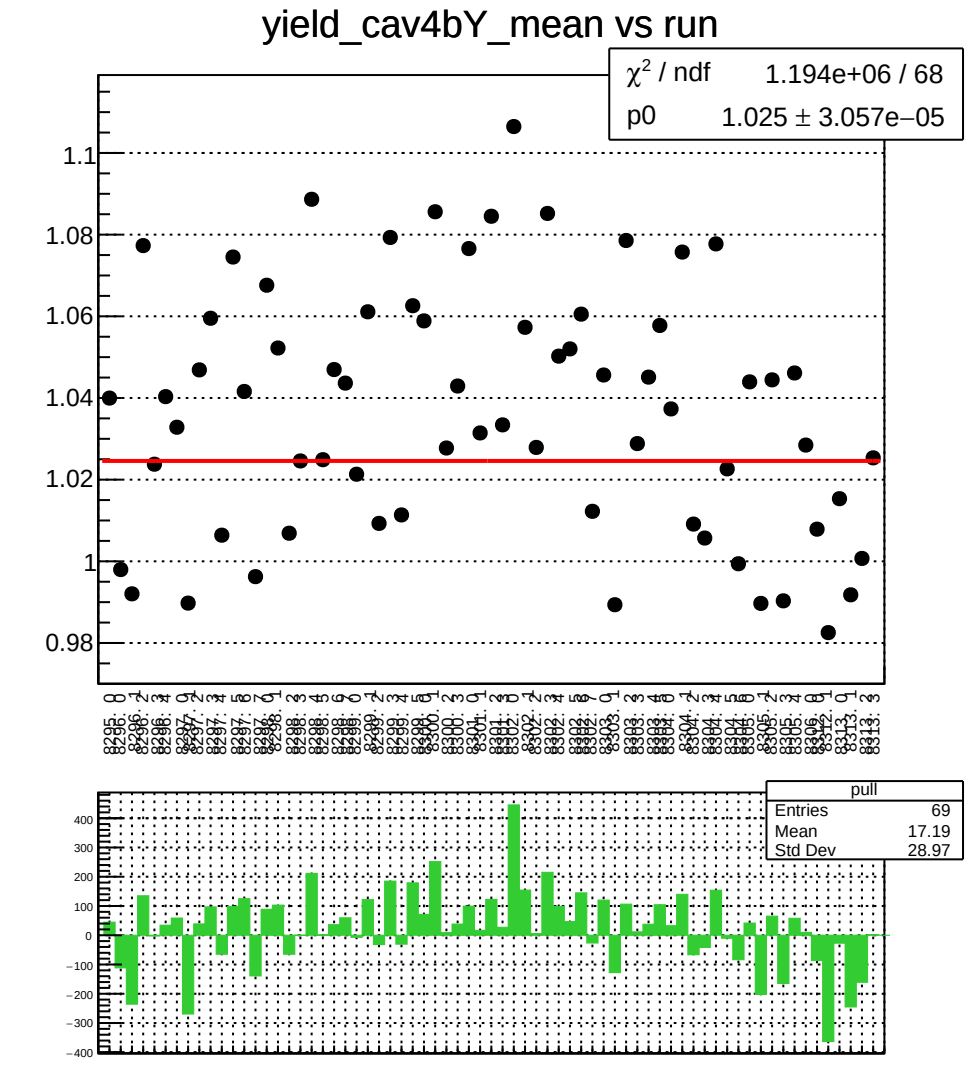

pull1D
Entries 69
Mean 0.2966
Std Dev 2.574

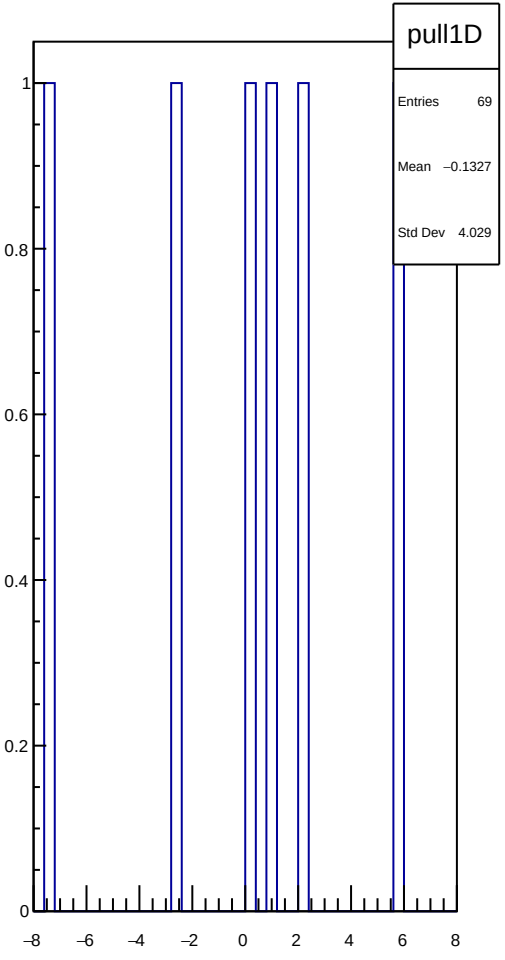

asym_bpm1i06WS_rms vs run
χ² / ndf 4805 / 68
p0 212.2 ± 0.1823
250
240
230
220
210
200
190

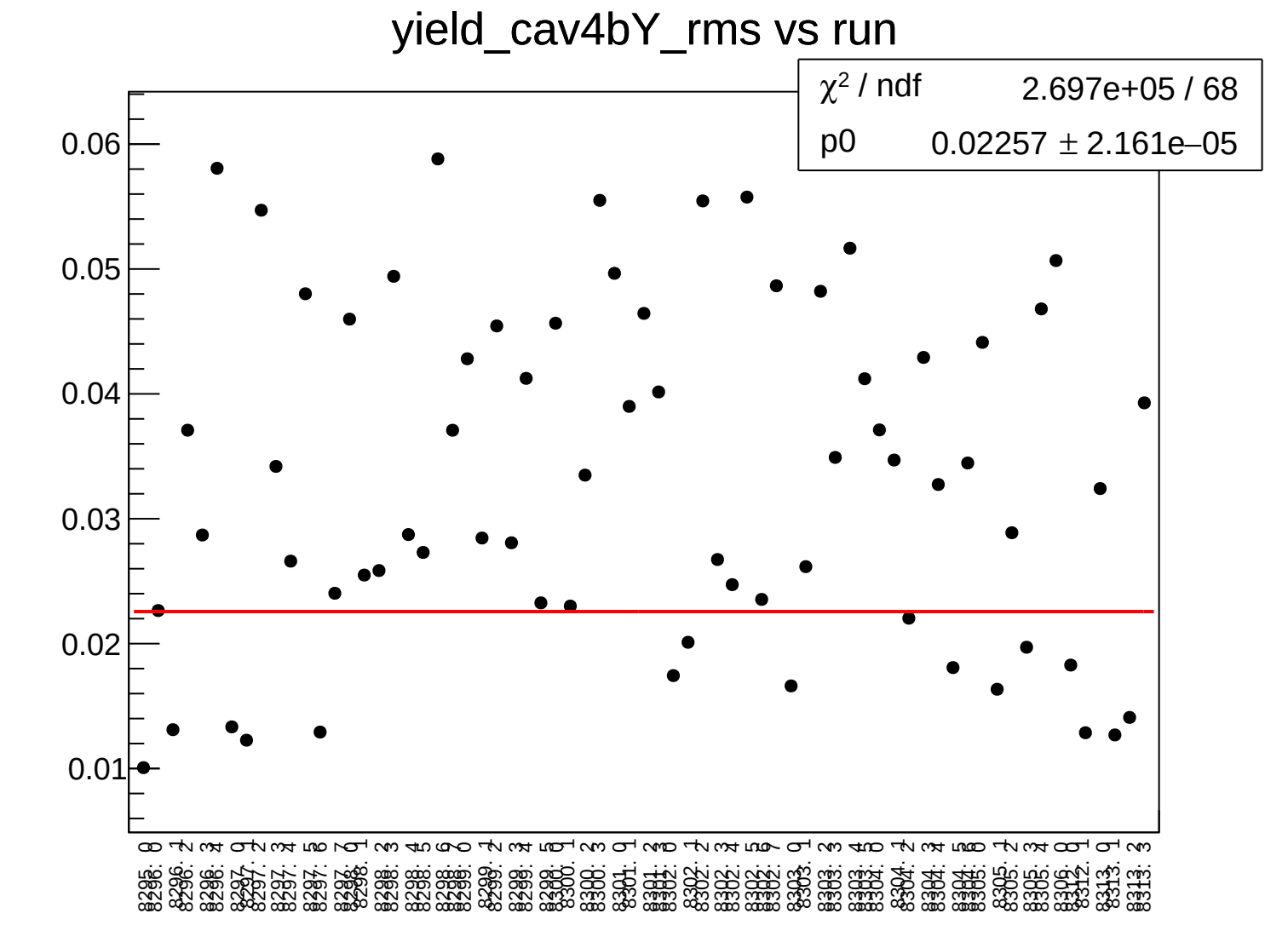

yield_cav4bX_mean vs run
χ² / ndf 2.235e+05 / 68
p0 0.9586 ± 0.000143
pull
Entries 69
Mean −208.1
Std Dev 257.9

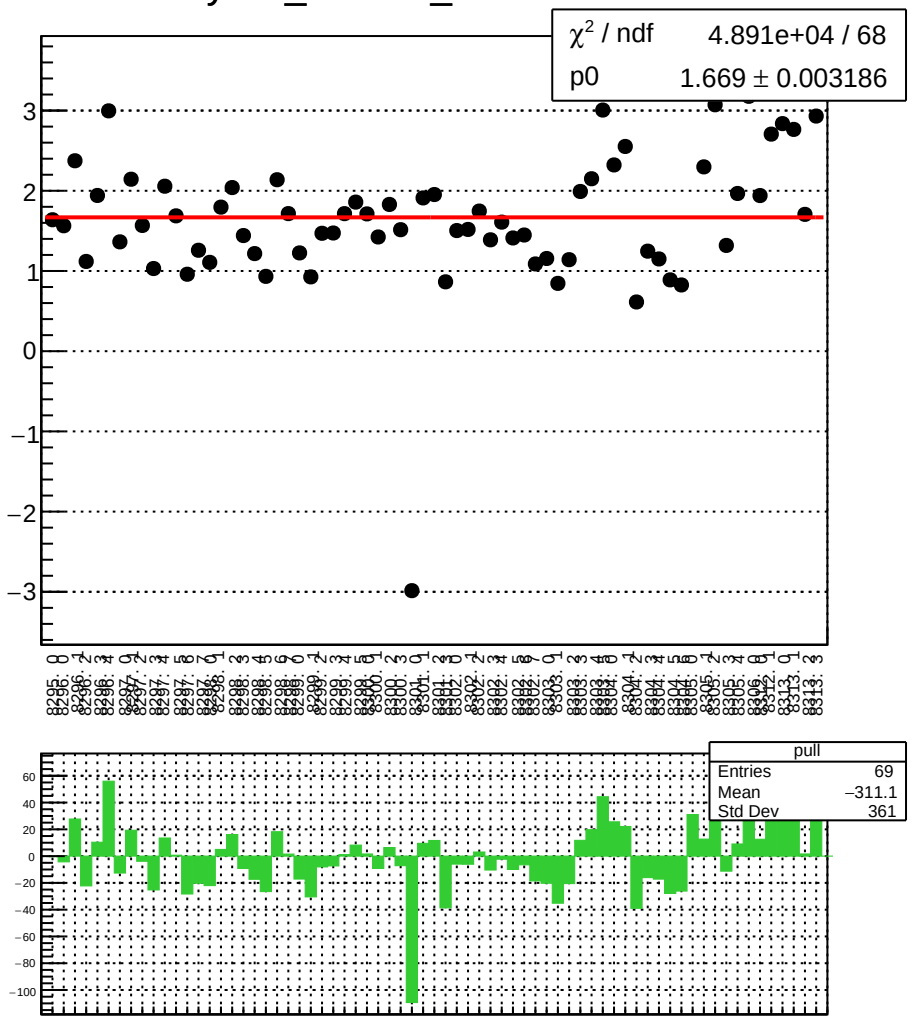

pull1D
Entries 69
Mean 2.15
Std Dev 4.735

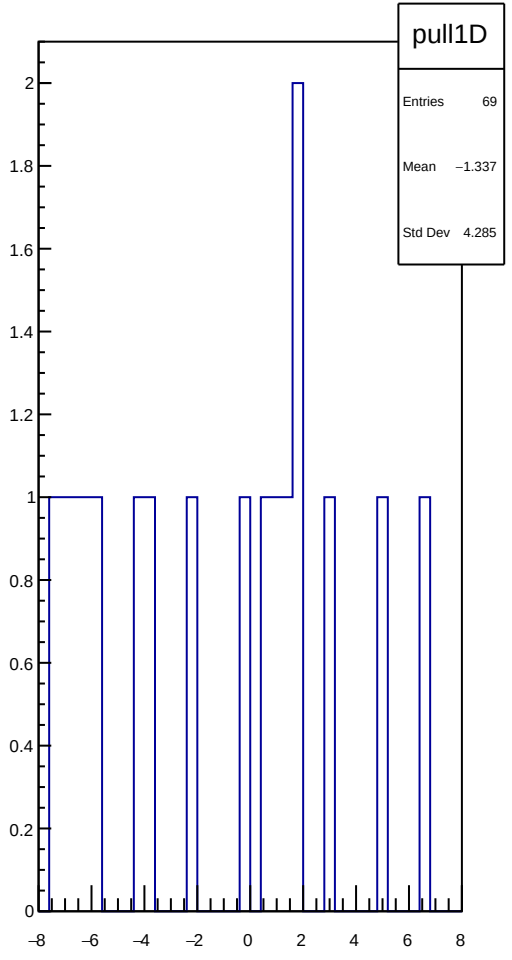

yield_cav4bX_rms vs run
χ² / ndf 5.017e+04 / 68
p0 0.1158 ± 0.0001011
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

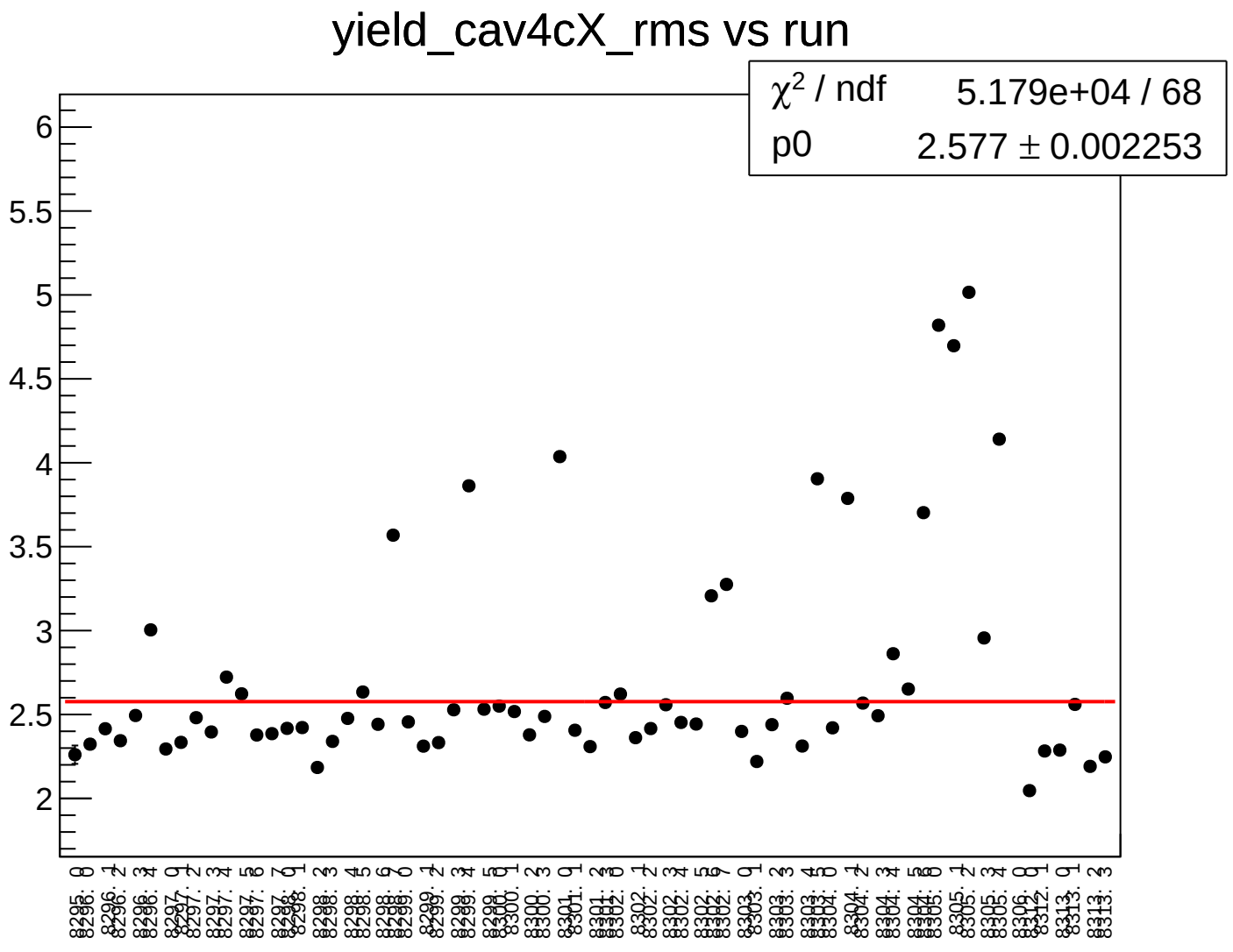

yield_cav4bY_mean vs run
χ² / ndf 1.194e+06 / 68
p0 1.025 ± 3.057e−05
pull
Entries 69
Mean 17.19
Std Dev 28.97

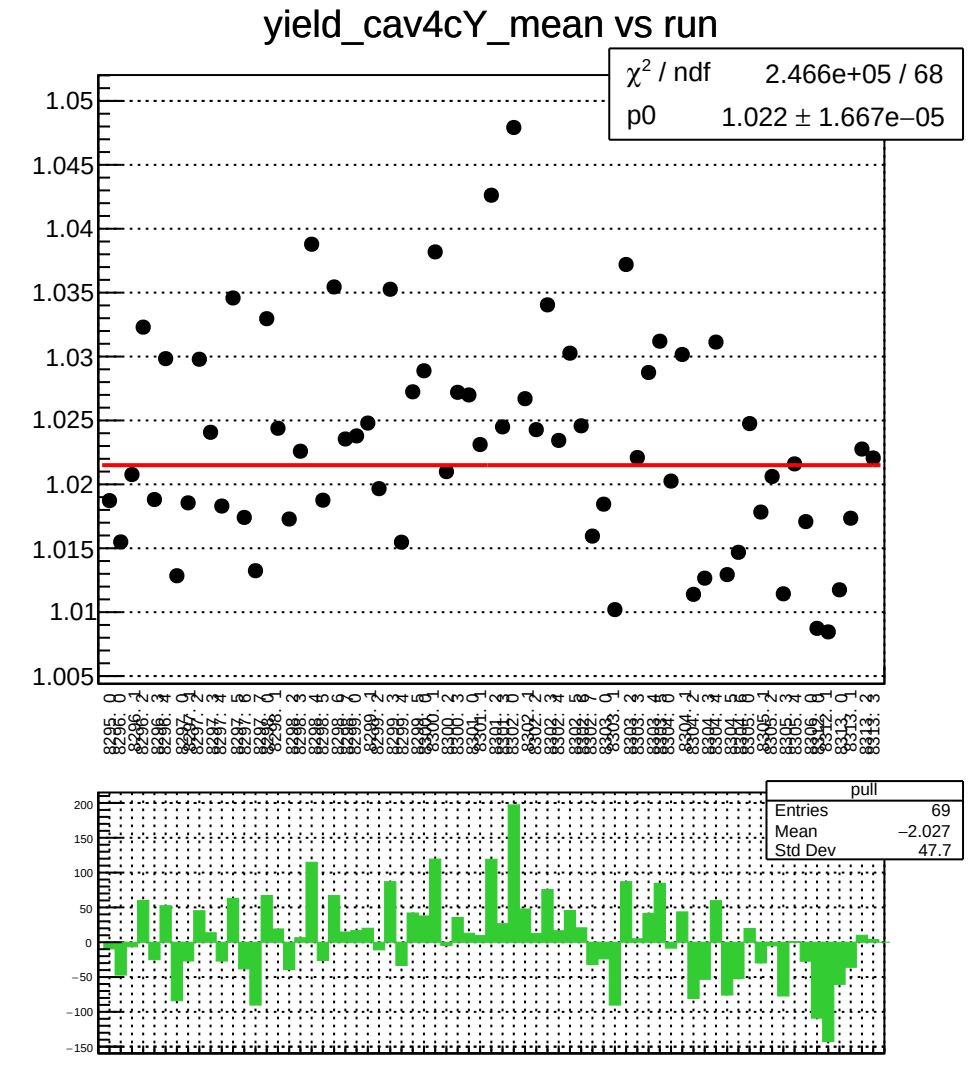

pull1D
Entries 69
Mean −0.1327
Std Dev 4.029

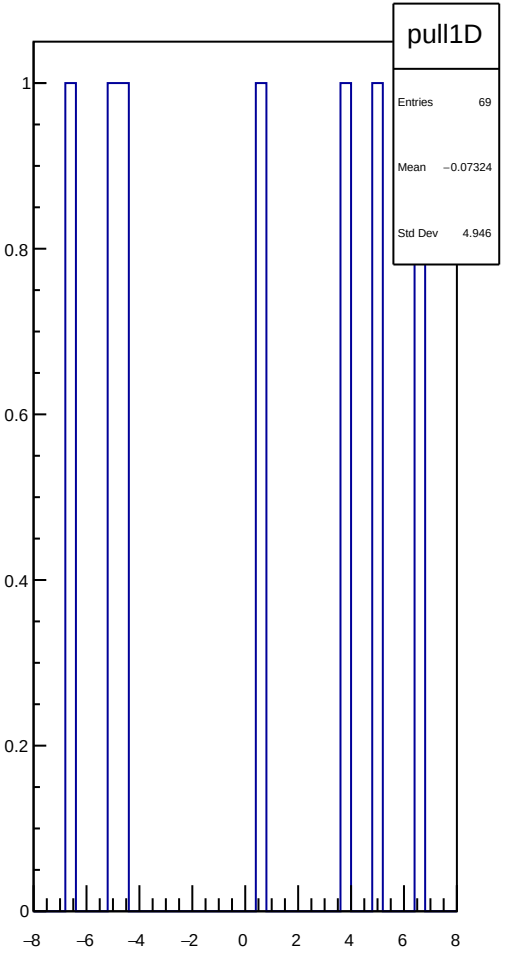

yield_cav4bY_rms vs run
χ² / ndf 2.697e+05 / 68
p0 0.02257 ± 2.161e–05
0.06
0.05
0.04
0.03
0.02
0.01

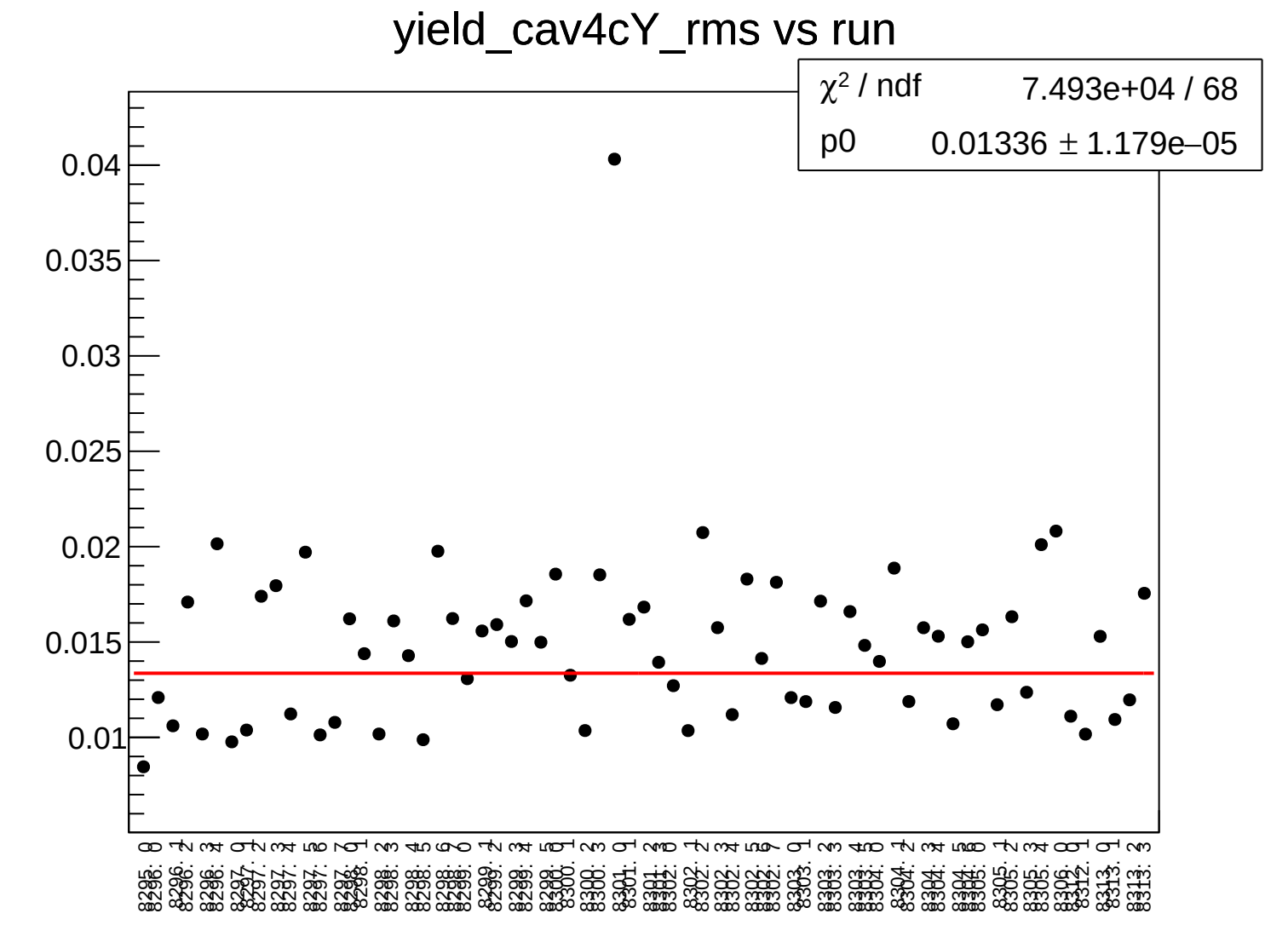

yield_cav4cX_mean vs run
χ² / ndf 4.891e+04 / 68
p0 1.669 ± 0.003186
pull
Entries 69
Mean −311.1
Std Dev 361

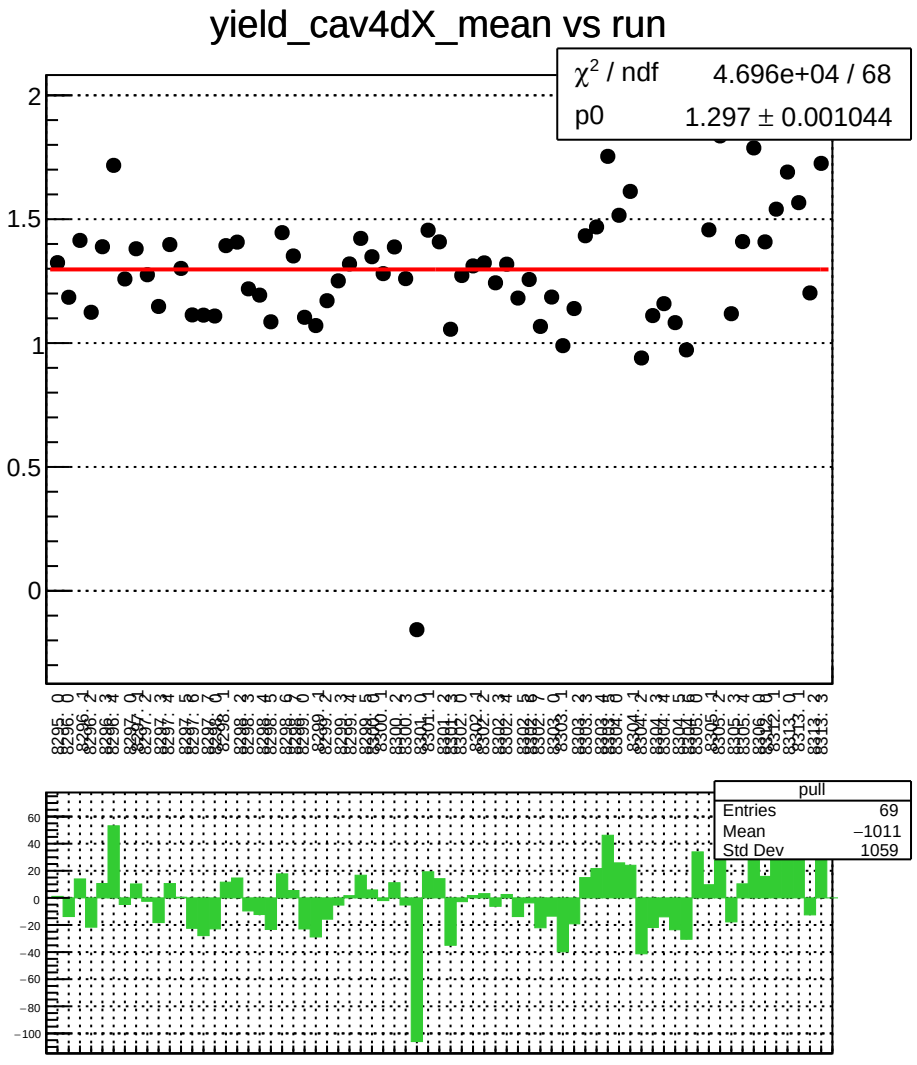

pull1D
Entries 69
Mean −1.337
Std Dev 4.285

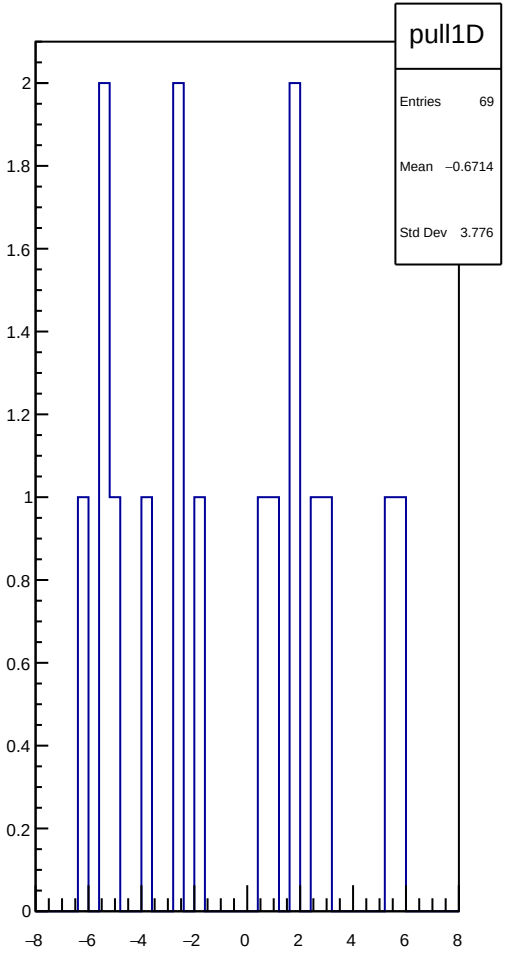

yield_cav4cX_rms vs run
χ² / ndf 5.179e+04 / 68
p0 2.577 ± 0.002253
6
5.5
5
4.5
4
3.5
3
2.5
2

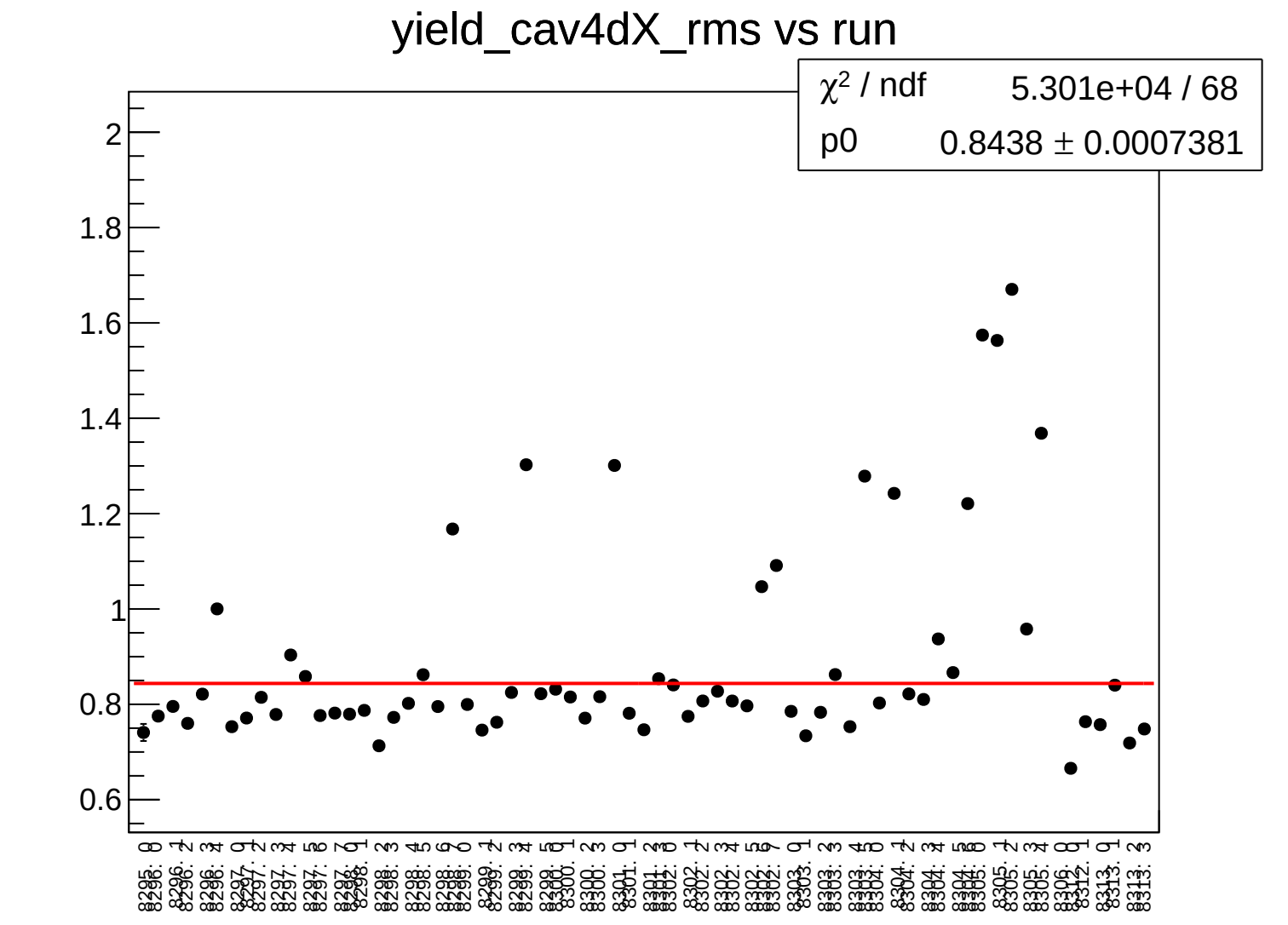

yield_cav4cY_mean vs run
χ² / ndf 2.466e+05 / 68
p0 1.022 ± 1.667e−05
1.05
1.045
1.04
1.035
1.03
1.025
1.02
1.015
1.01
1.005
pull
Entries 69
Mean −2.027
Std Dev 47.7
200
150
100
50
0
−50
−100
−150

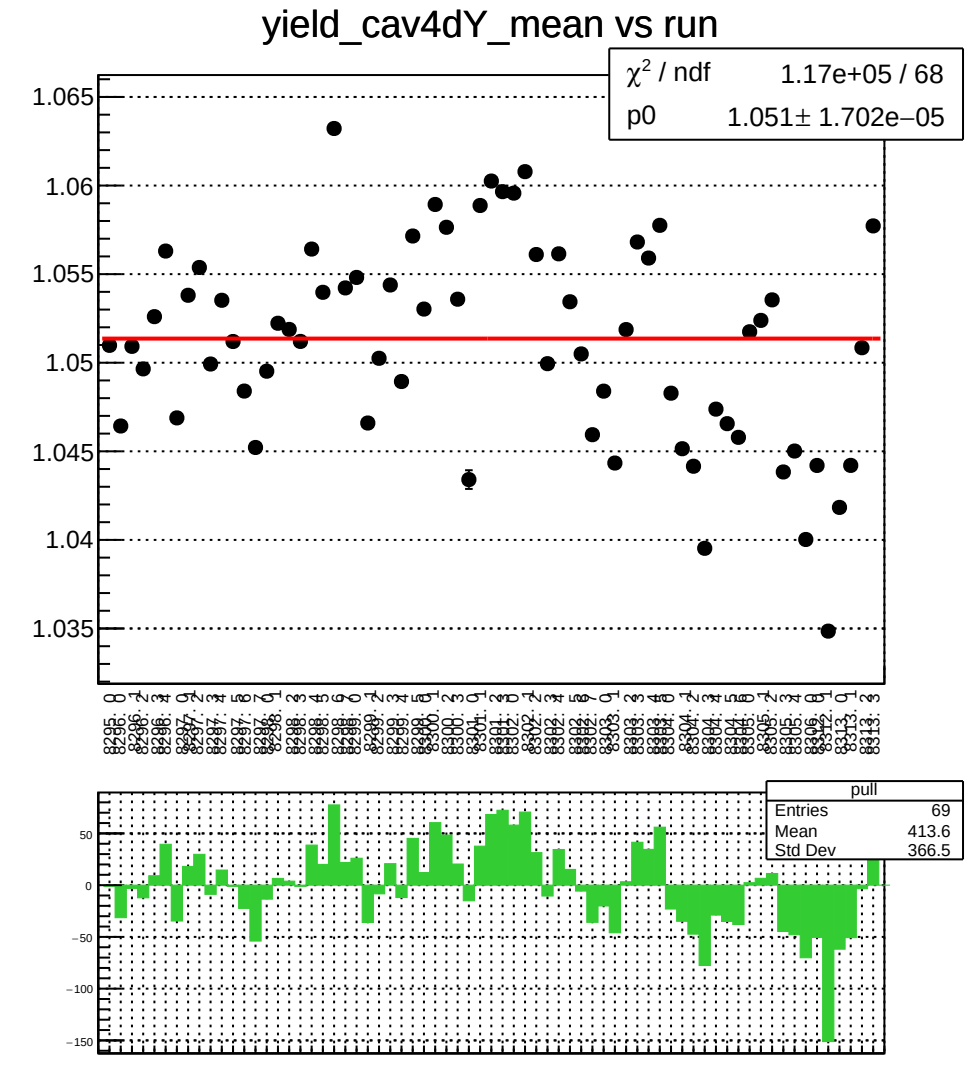

pull1D
Entries 69
Mean −0.07324
Std Dev 4.946
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

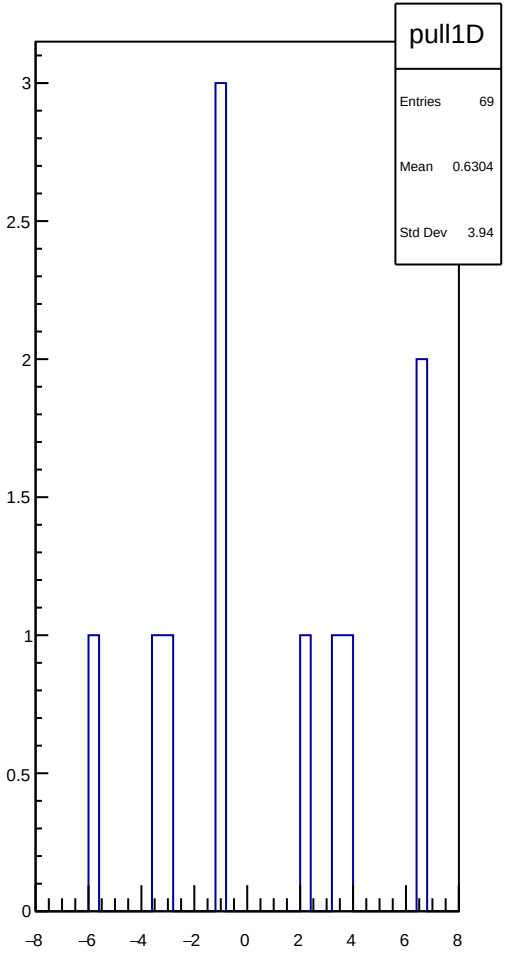

yield_cav4cY_rms vs run
χ² / ndf 7.493e+04 / 68
p0 0.01336 ± 1.179e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

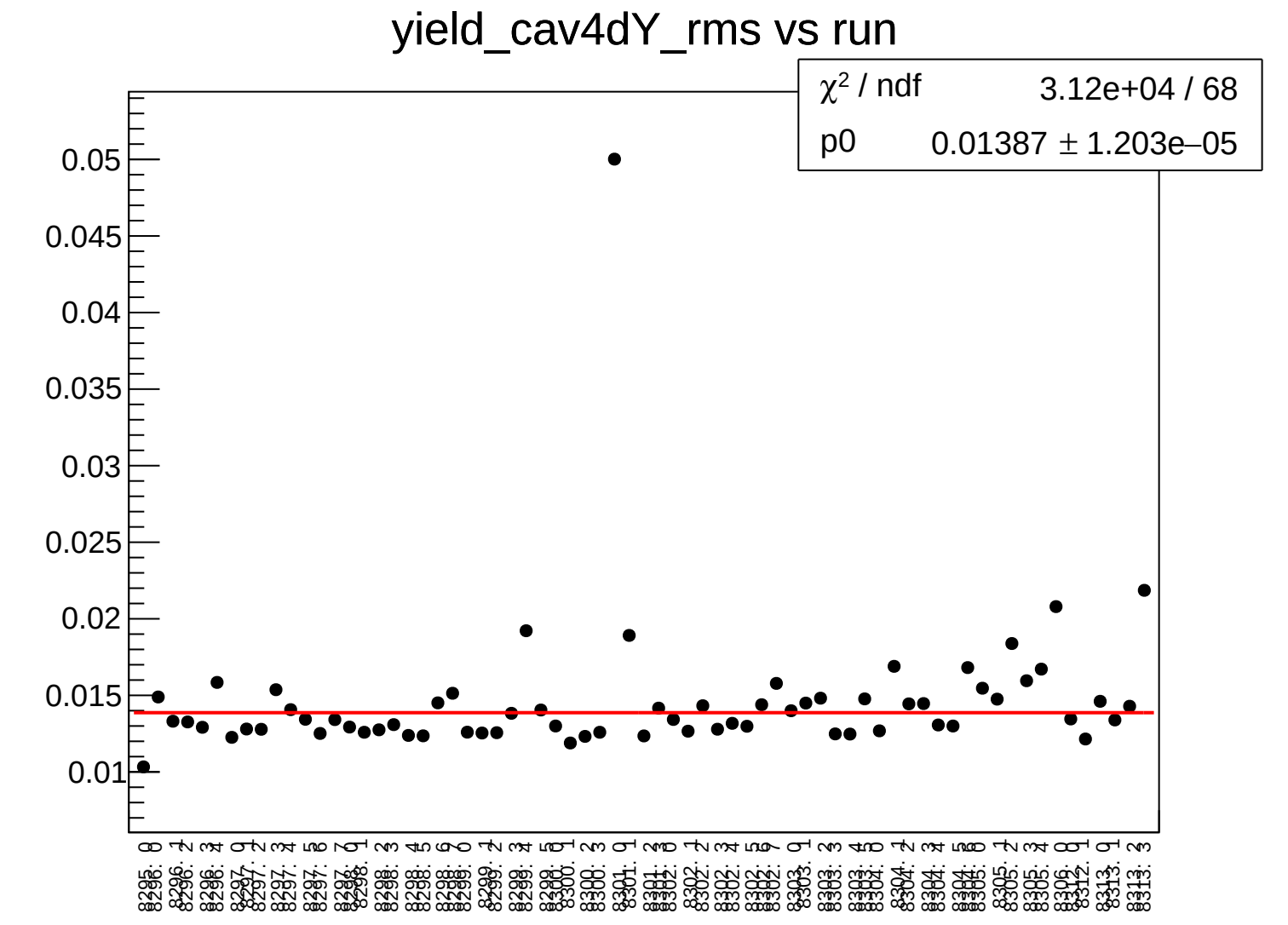

yield_cav4dX_mean vs run
χ² / ndf 4.696e+04 / 68
p0 1.297 ± 0.001044
pull
Entries 69
Mean −1011
Std Dev 1059

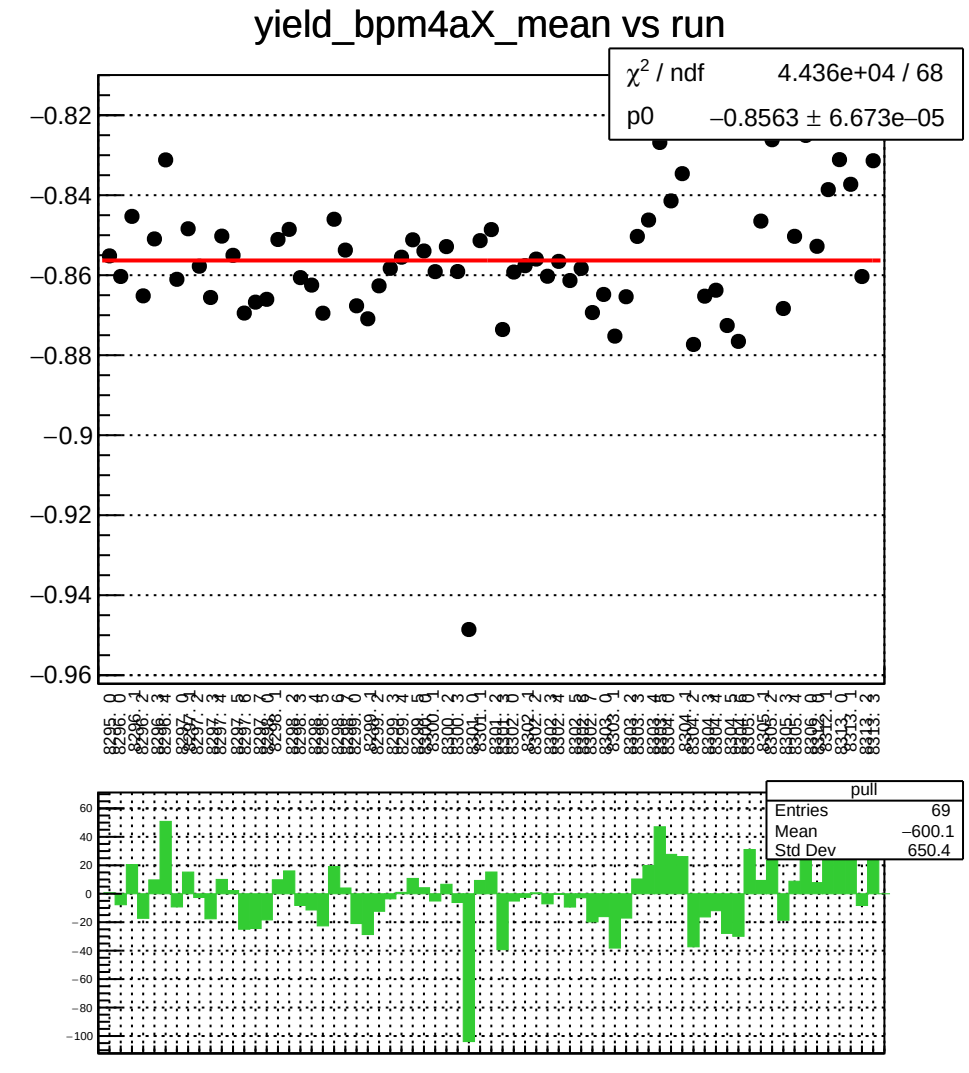

pull1D
Entries 69
Mean −0.6714
Std Dev 3.776

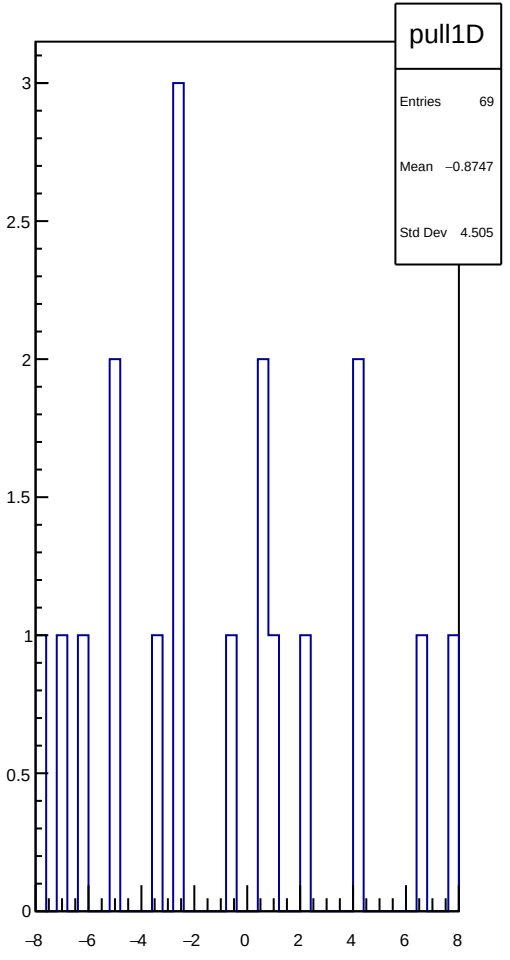

yield_cav4dX_rms vs run
χ² / ndf 5.301e+04 / 68
p0 0.8438 ± 0.0007381
2
1.8
1.6
1.4
1.2
1
0.8
0.6

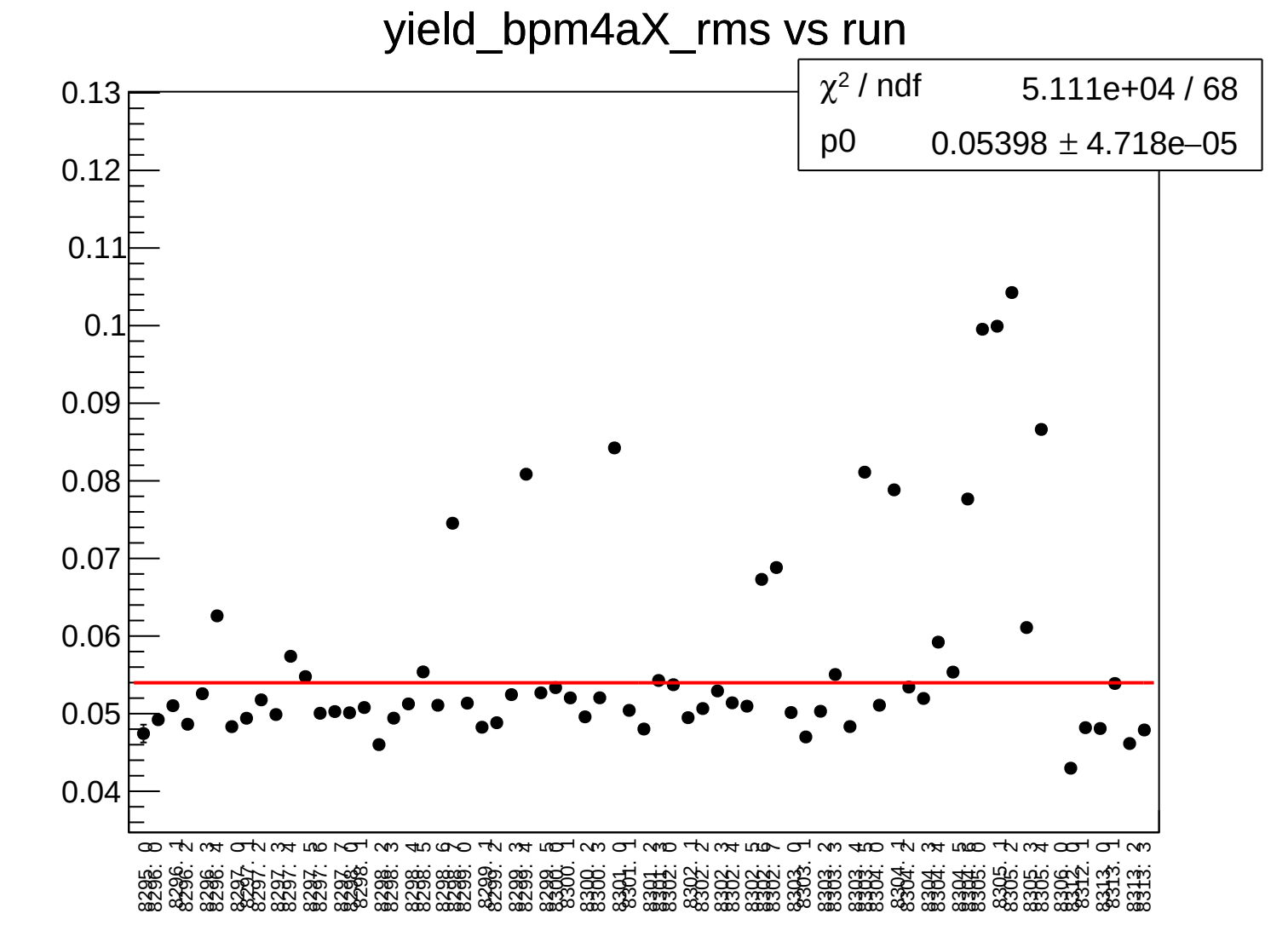

yield_cav4dY_mean vs run
χ² / ndf 1.17e+05 / 68
p0 1.051± 1.702e−05
1.065
1.06
1.055
1.05
1.045
1.04
1.035
pull
Entries 69
Mean 413.6
Std Dev 366.5
50
0
−50
−100
−150

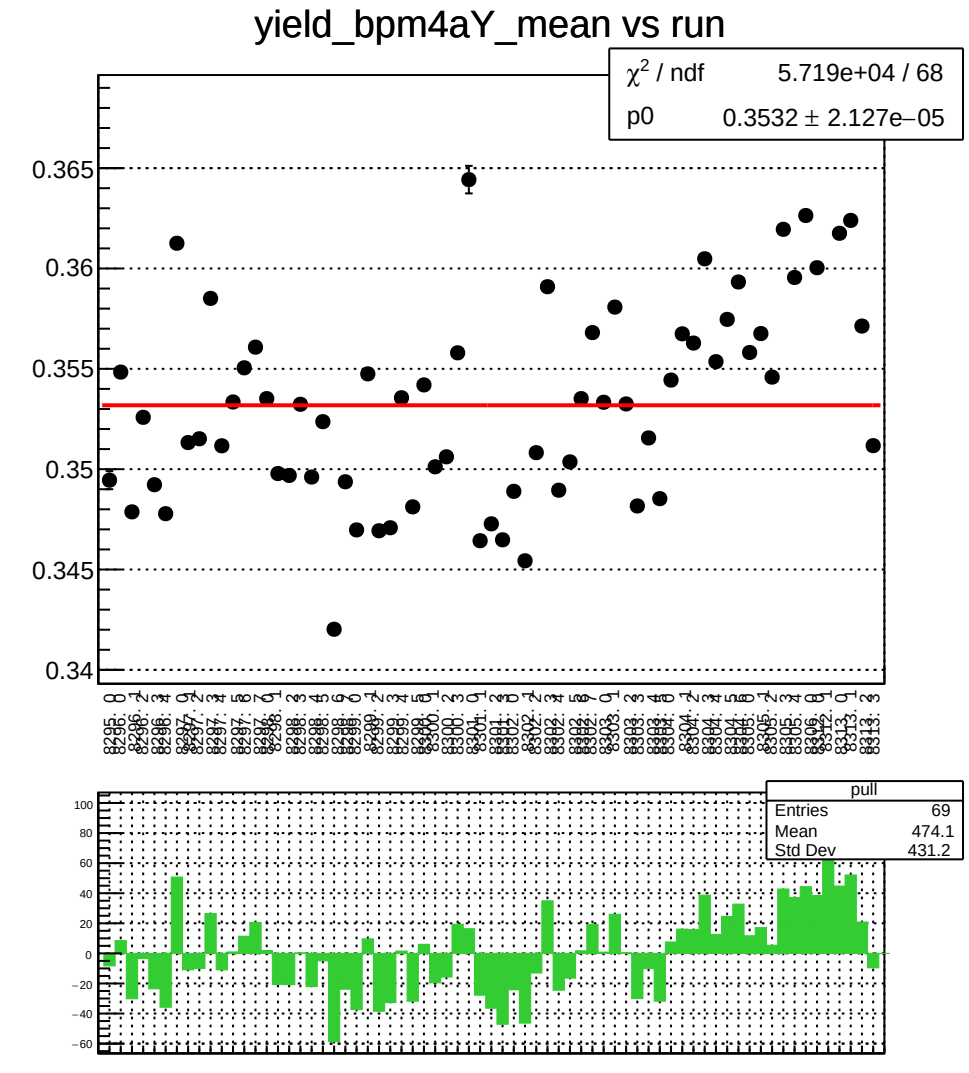

pull1D
Entries 69
Mean 0.6304
Std Dev 3.94
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

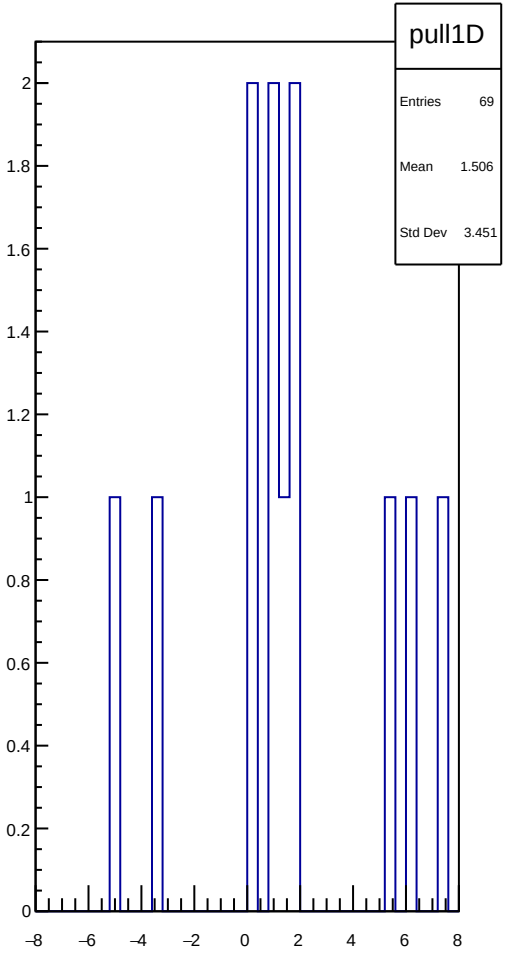

yield_cav4dY_rms vs run
χ² / ndf 3.12e+04 / 68
p0 0.01387 ± 1.203e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

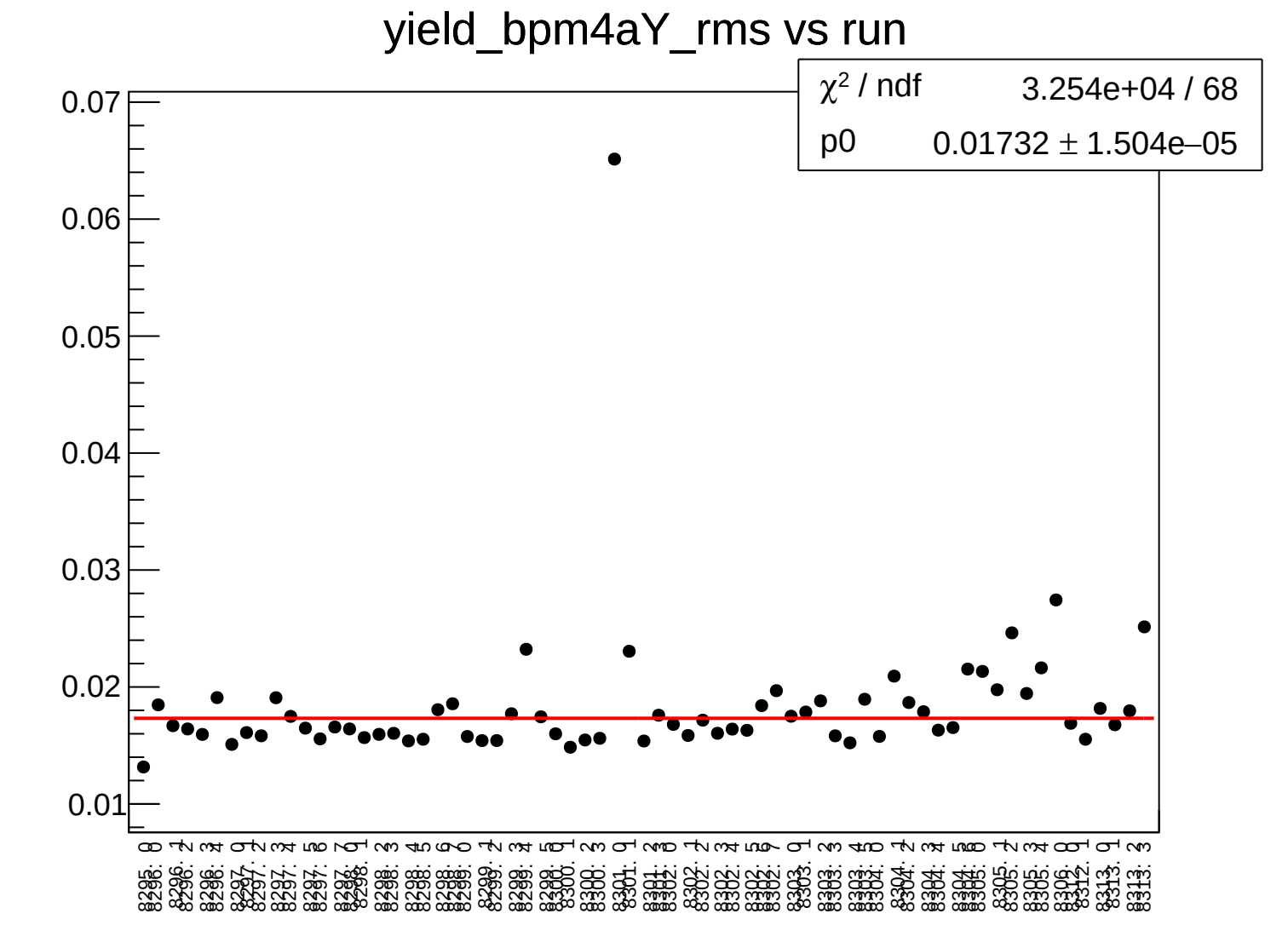

yield_bpm4aX_mean vs run
χ² / ndf 4.436e+04 / 68
p0 −0.8563 ± 6.673e−05
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 69
Mean −600.1
Std Dev 650.4
60
40
20
0
−20
−40
−60
−80
−100

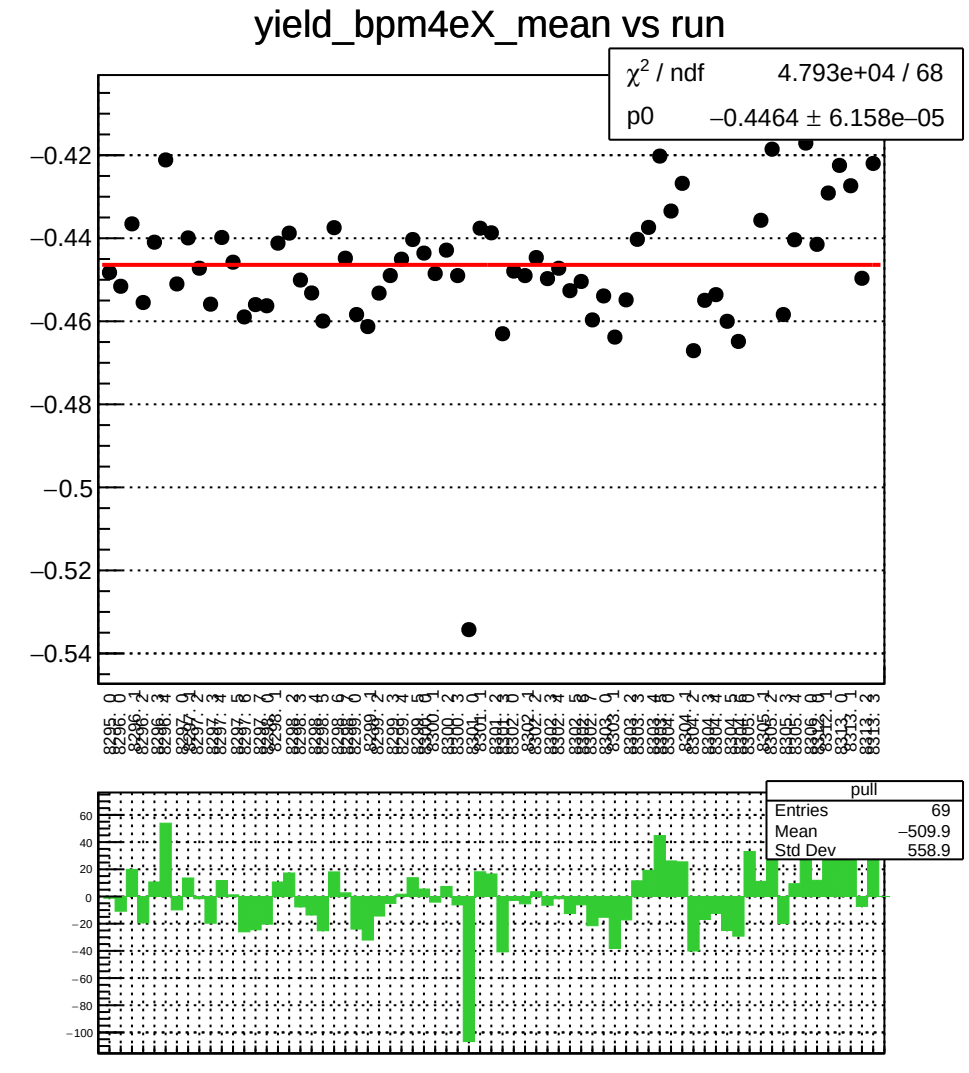

pull1D
Entries 69
Mean −0.8747
Std Dev 4.505
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

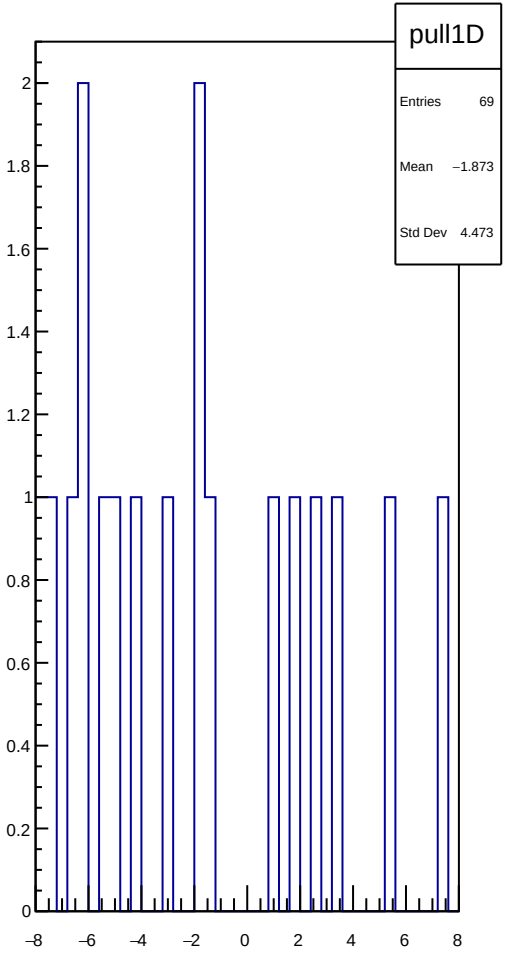

yield_bpm4aX_rms vs run
χ² / ndf 5.111e+04 / 68
p0 0.05398 ± 4.718e–05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

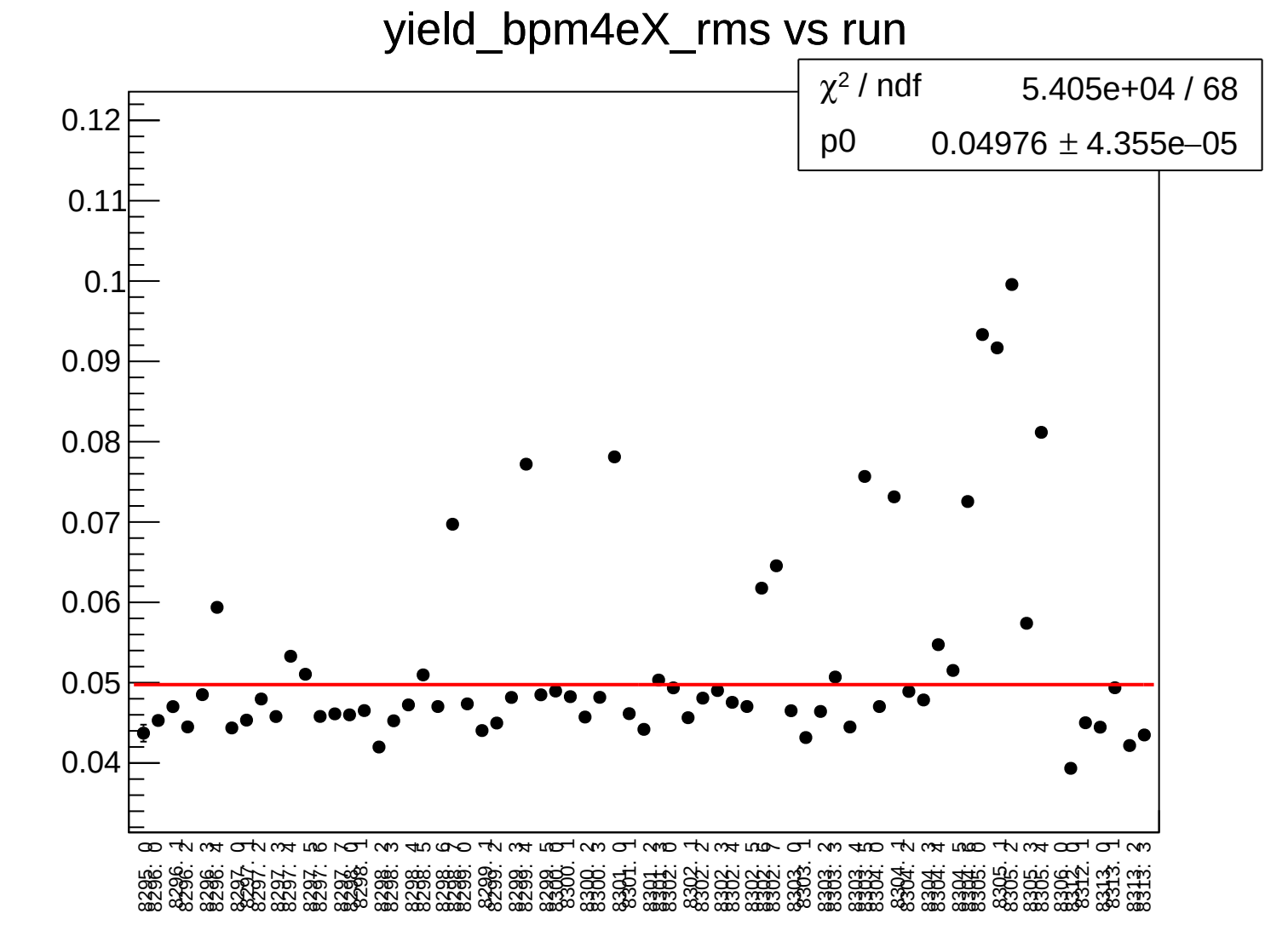

yield_bpm4aY_mean vs run
χ² / ndf 5.719e+04 / 68
p0 0.3532 ± 2.127e−05
0.365
0.36
0.355
0.35
0.345
0.34
pull
Entries 69
Mean 474.1
Std Dev 431.2
100
80
60
40
20
0
−20
−40
−60

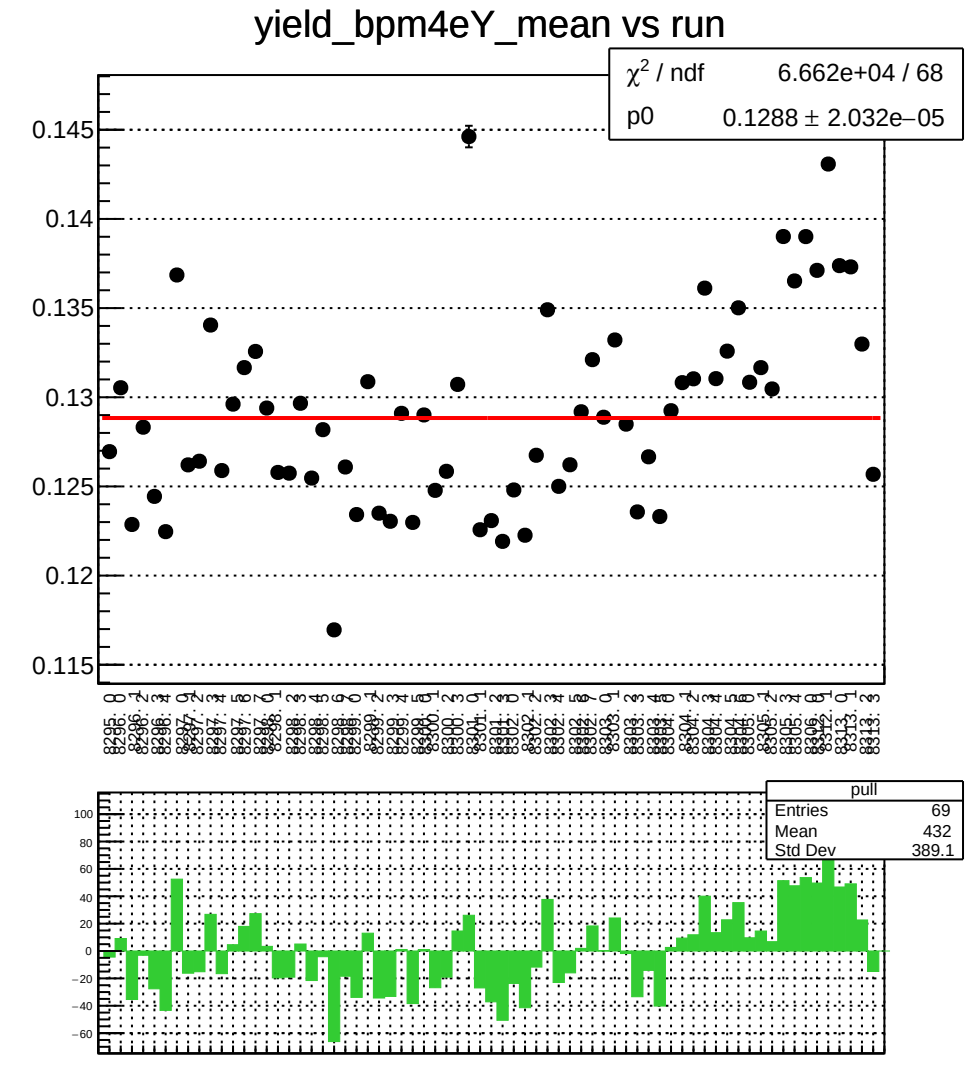

pull1D
Entries 69
Mean 1.506
Std Dev 3.451
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

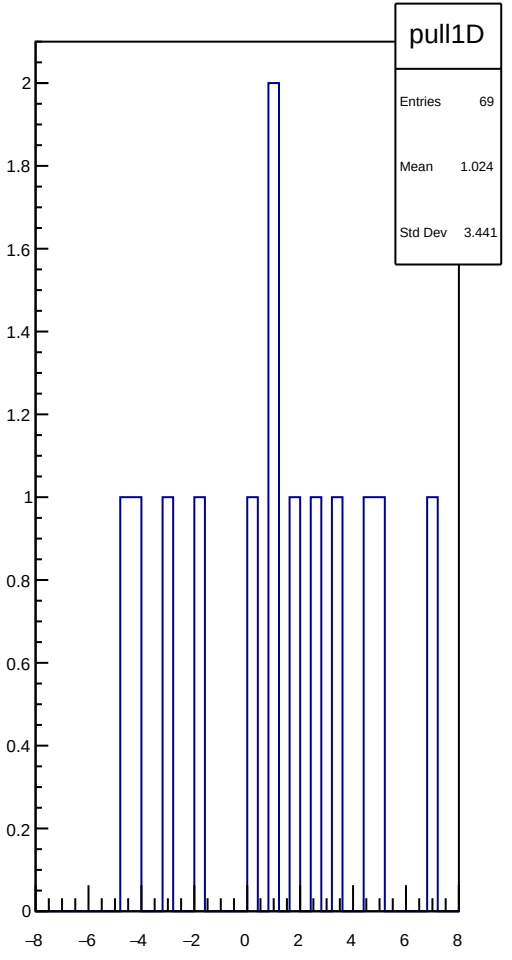

yield_bpm4aY_rms vs run
χ² / ndf 3.254e+04 / 68
p0 0.01732 ± 1.504e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

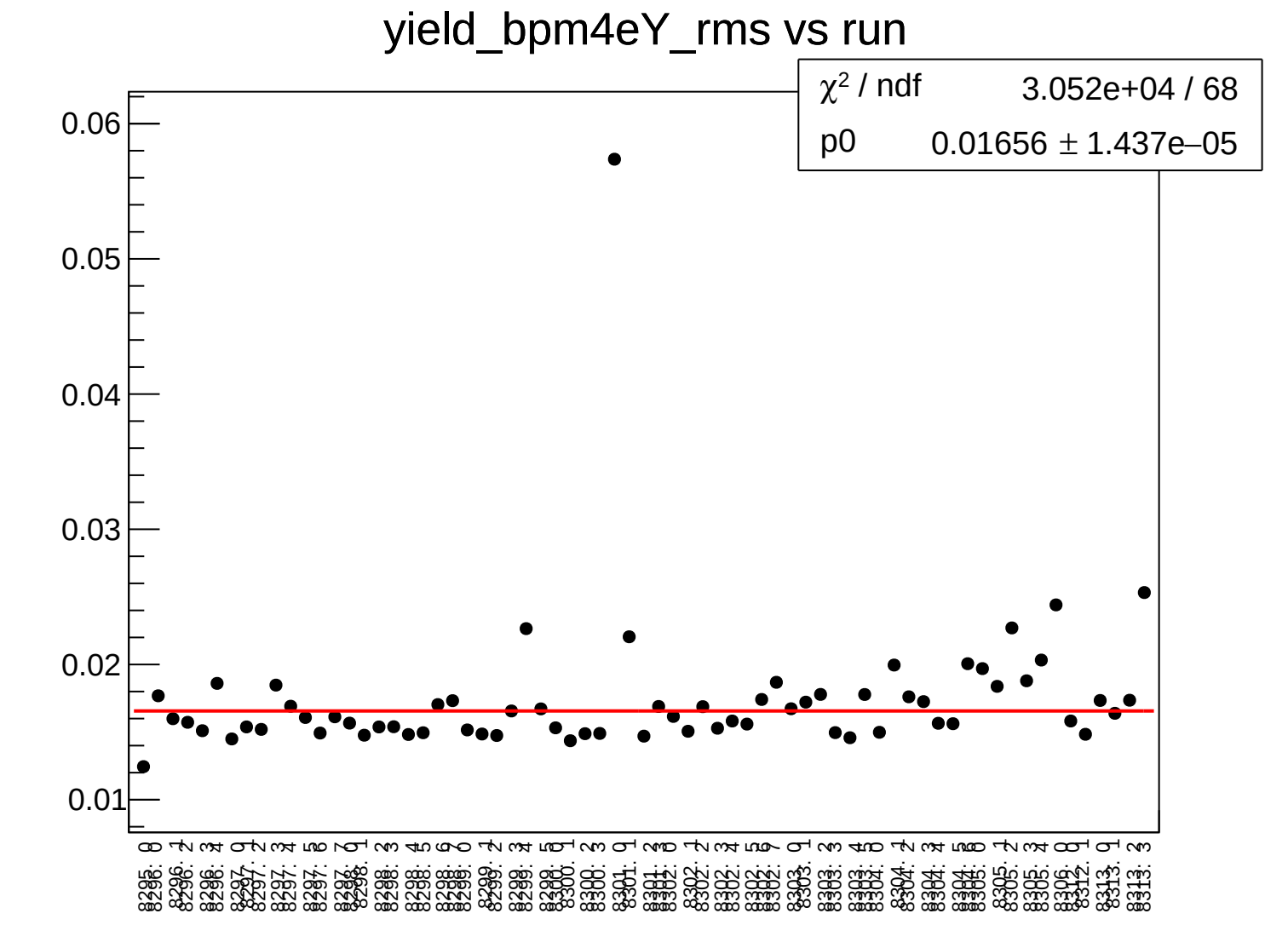

yield_bpm4eX_mean vs run
χ² / ndf 4.793e+04 / 68
p0 −0.4464 ± 6.158e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 69
Mean −509.9
Std Dev 558.9
60
40
20
0
−20
−40
−60
−80
−100

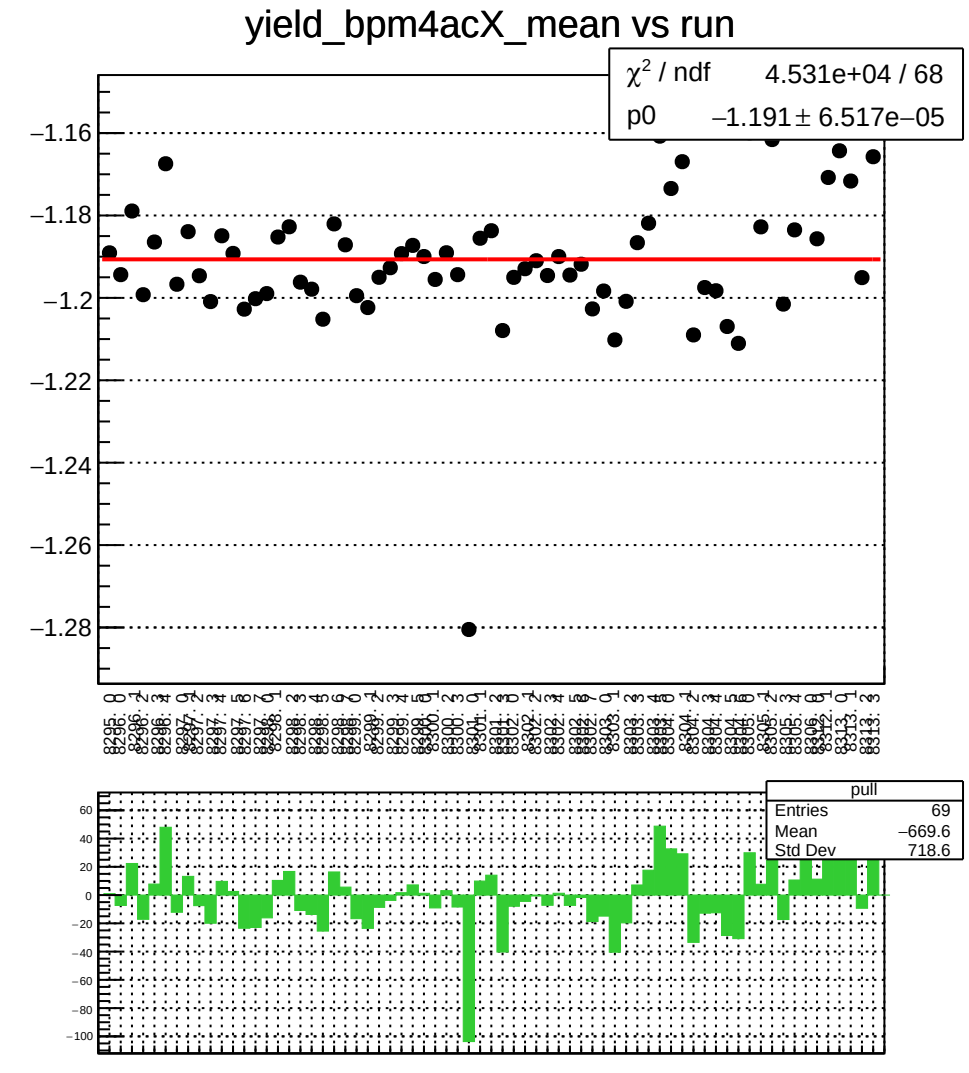

pull1D
Entries 69
Mean −1.873
Std Dev 4.473
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

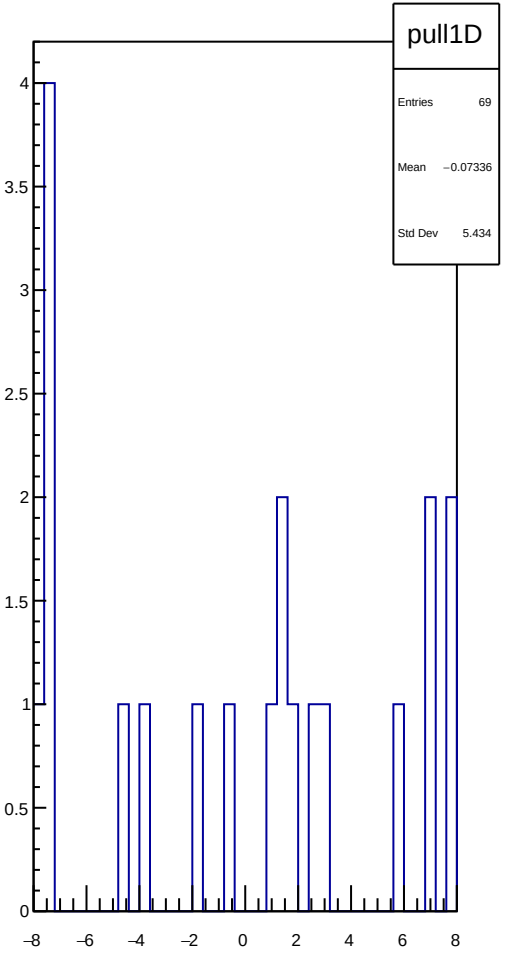

yield_bpm4eX_rms vs run
χ² / ndf 5.405e+04 / 68
p0 0.04976 ± 4.355e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

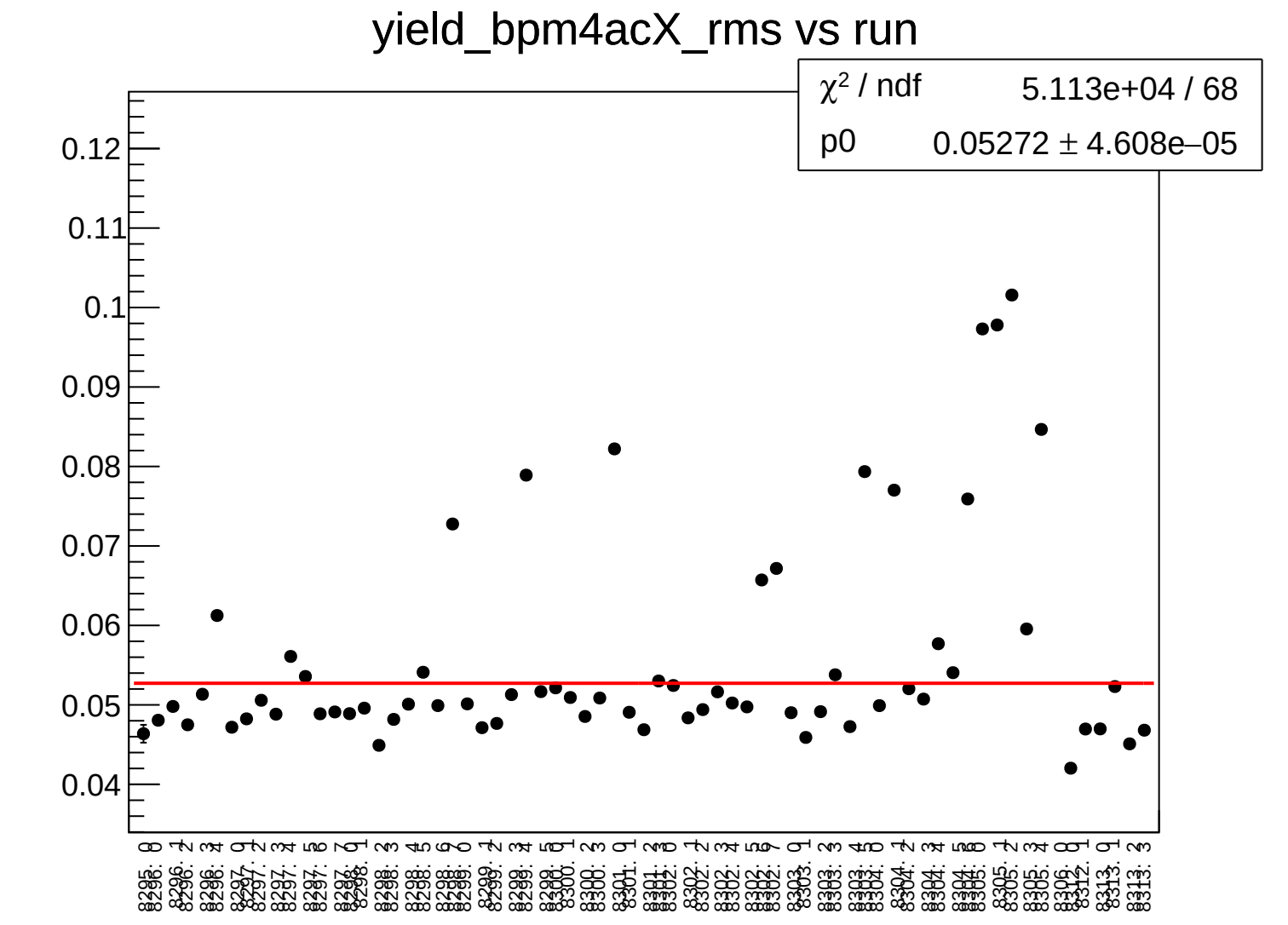

yield_bpm4eY_mean vs run
χ² / ndf 6.662e+04 / 68
p0 0.1288 ± 2.032e−05
0.145
0.14
0.135
0.13
0.125
0.12
0.115
pull
Entries 69
Mean 432
Std Dev 389.1
100
80
60
40
20
0
−20
−40
−60

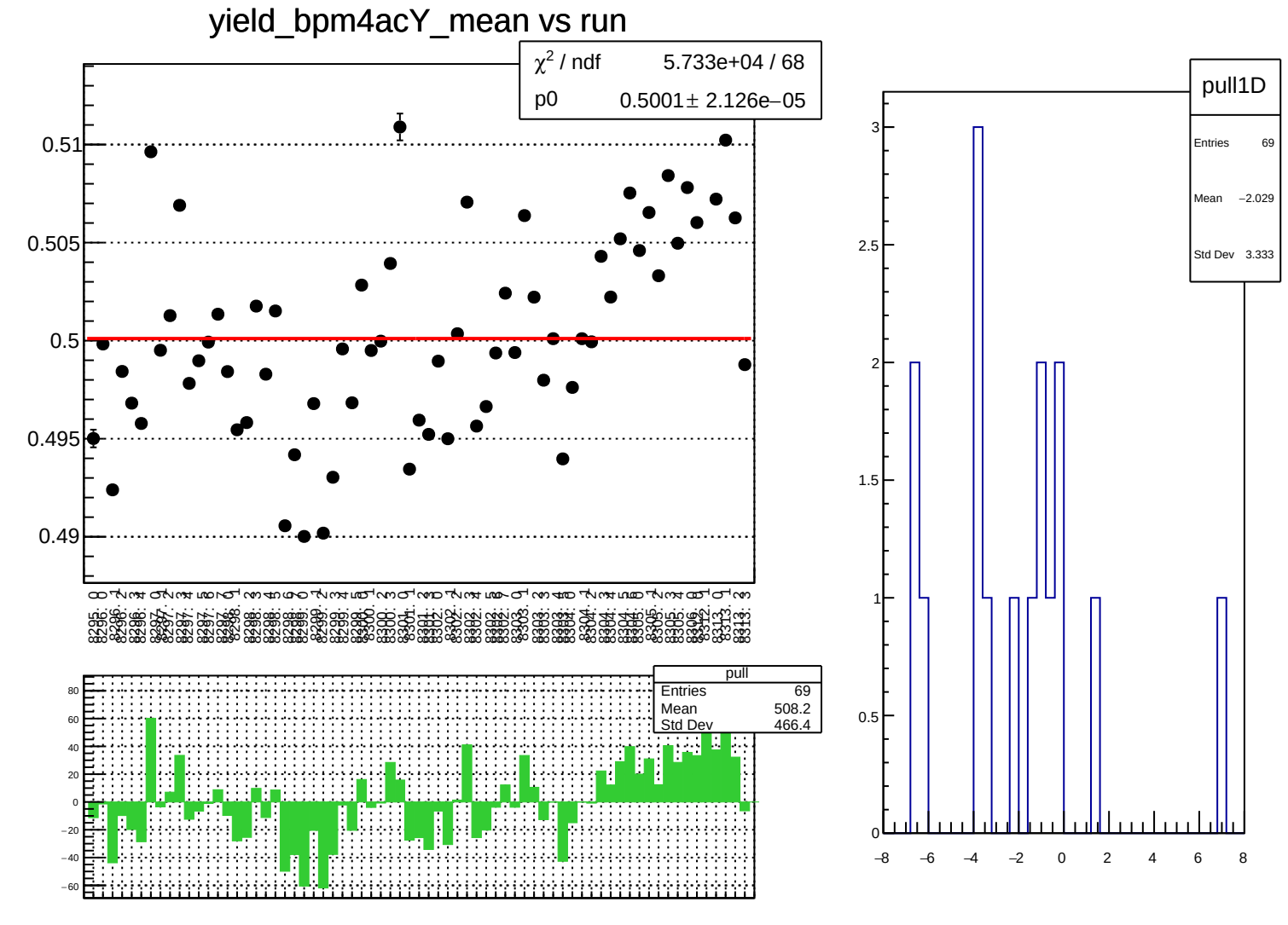

pull1D
Entries 69
Mean 1.024
Std Dev 3.441
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

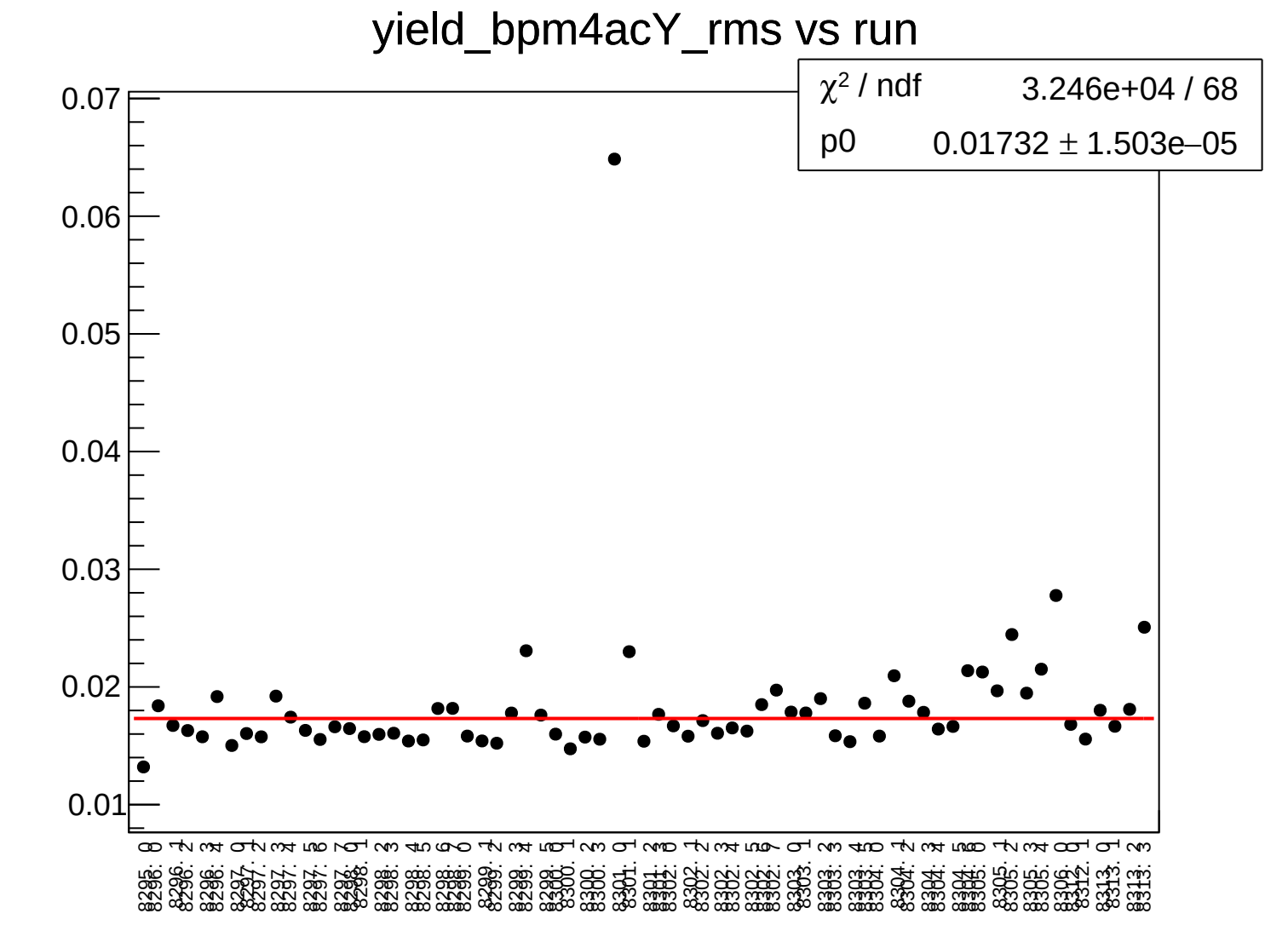

yield_bpm4eY_rms vs run
χ² / ndf 3.052e+04 / 68
p0 0.01656 ± 1.437e–05
0.06
0.05
0.04
0.03
0.02
0.01

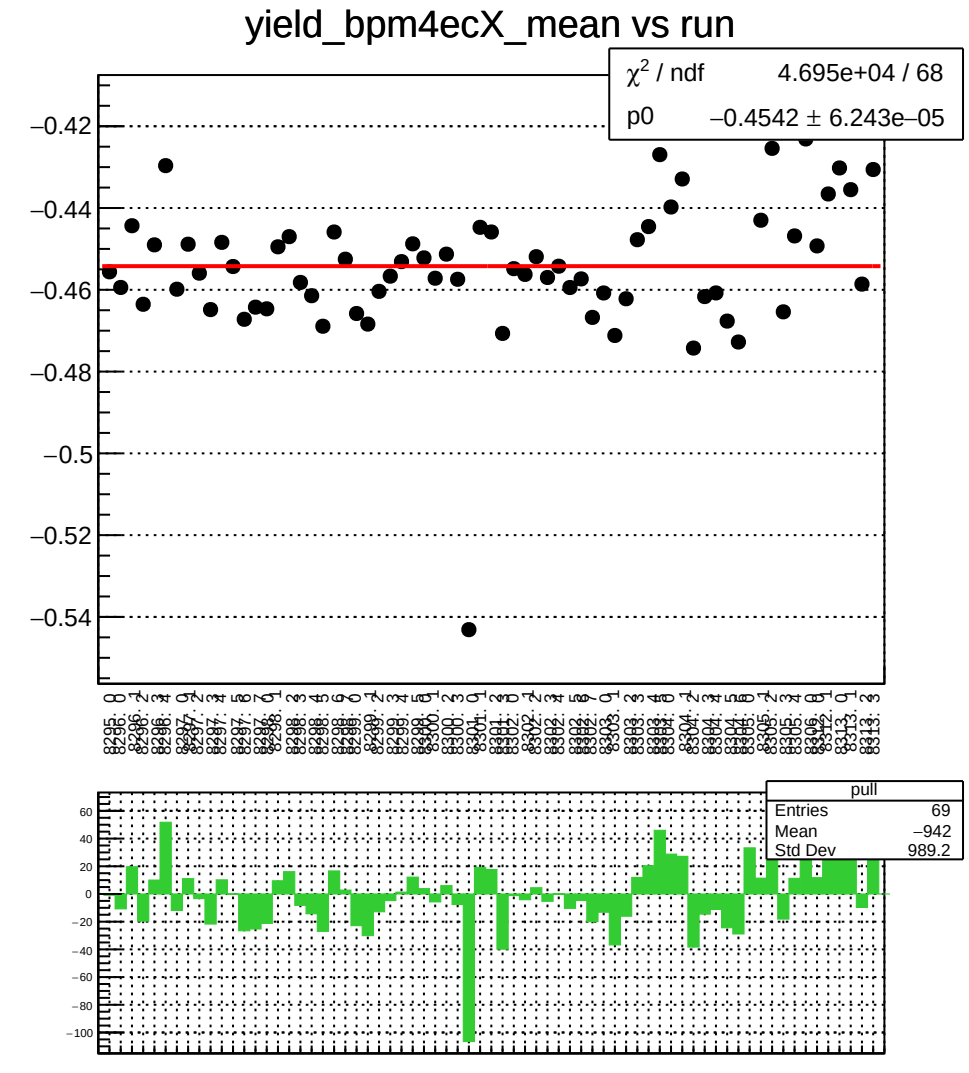

yield_bpm4acX_mean vs run
χ² / ndf 4.531e+04 / 68
p0 −1.191 ± 6.517e−05
−1.16
−1.18
−1.2
−1.22
−1.24
−1.26
−1.28
pull
Entries 69
Mean −669.6
Std Dev 718.6
60
40
20
0
−20
−40
−60
−80
−100

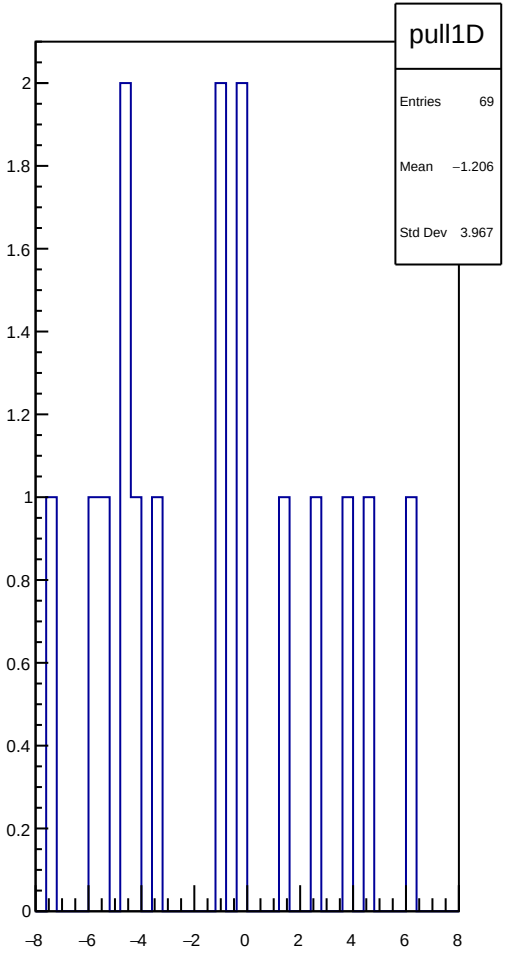

pull1D
Entries 69
Mean −0.07336
Std Dev 5.434
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

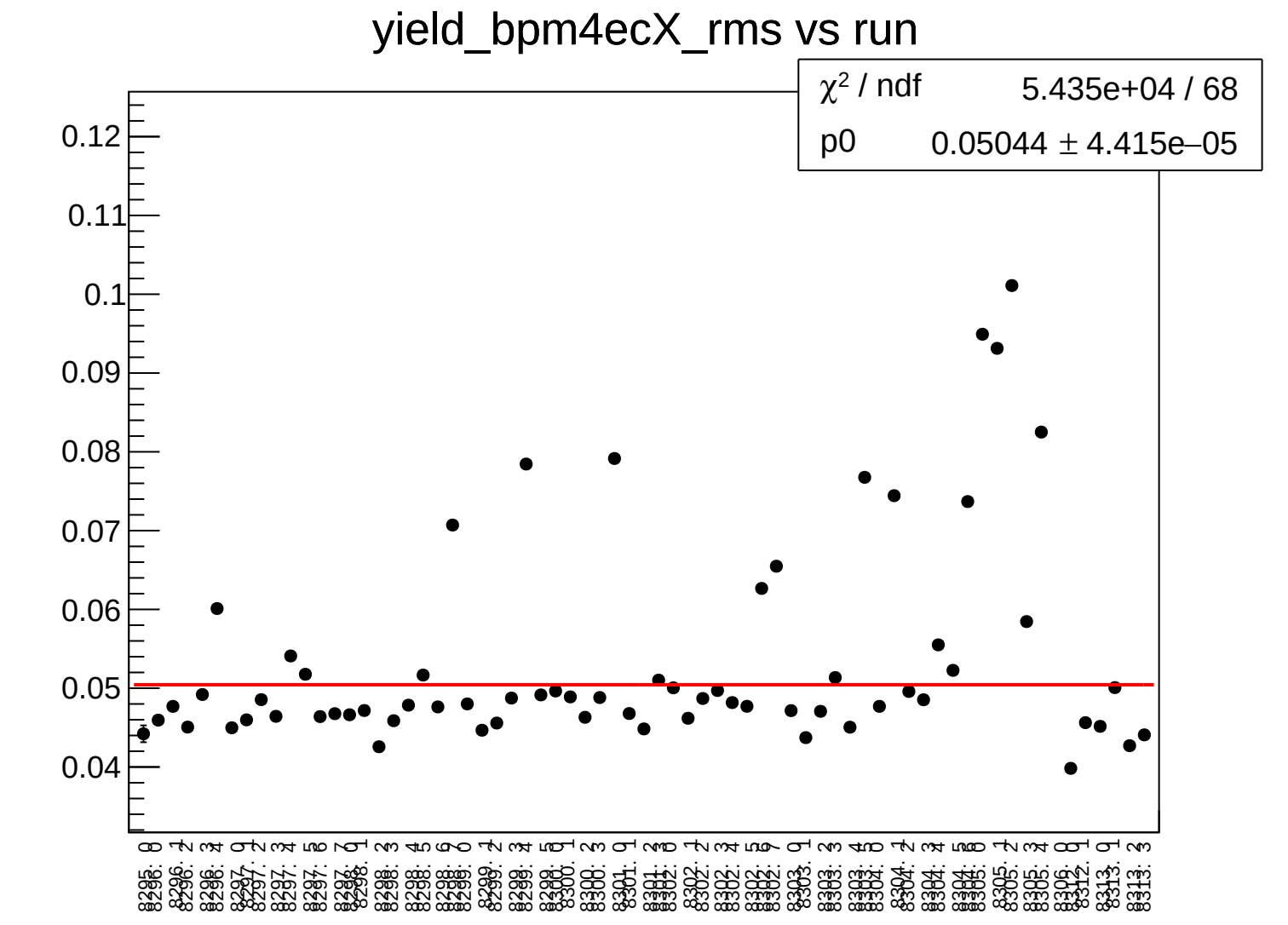

yield_bpm4acX_rms vs run
χ² / ndf 5.113e+04 / 68
p0 0.05272 ± 4.608e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

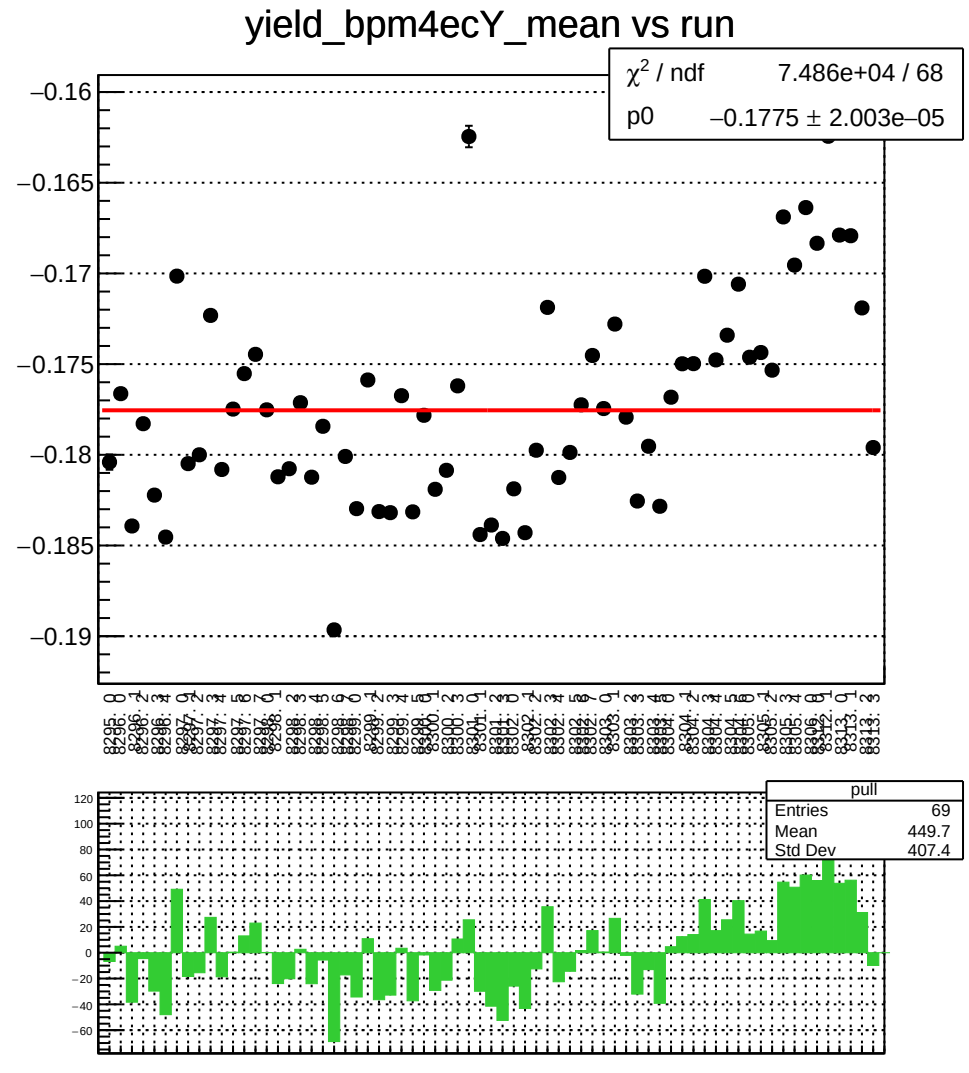

yield_bpm4acY_mean vs run
χ² / ndf 5.733e+04 / 68
p0 0.5001 ± 2.126e−05
0.51
0.505
0.5
0.495
0.49
pull
Entries 69
Mean 508.2
Std Dev 466.4
80
60
40
20
0
−20
−40
−60
pull1D
Entries 69
Mean −2.029
Std Dev 3.333
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

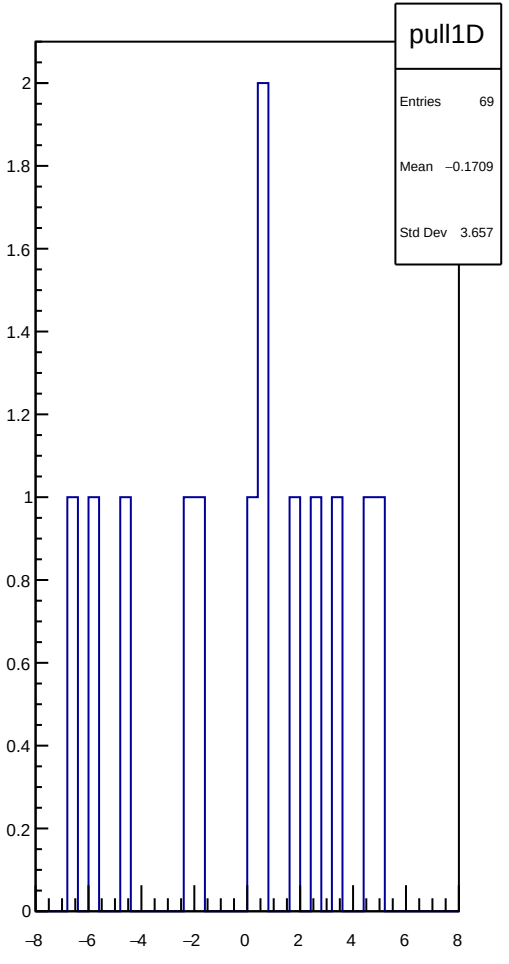

yield_bpm4acY_rms vs run
χ² / ndf 3.246e+04 / 68
p0 0.01732 ± 1.503e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

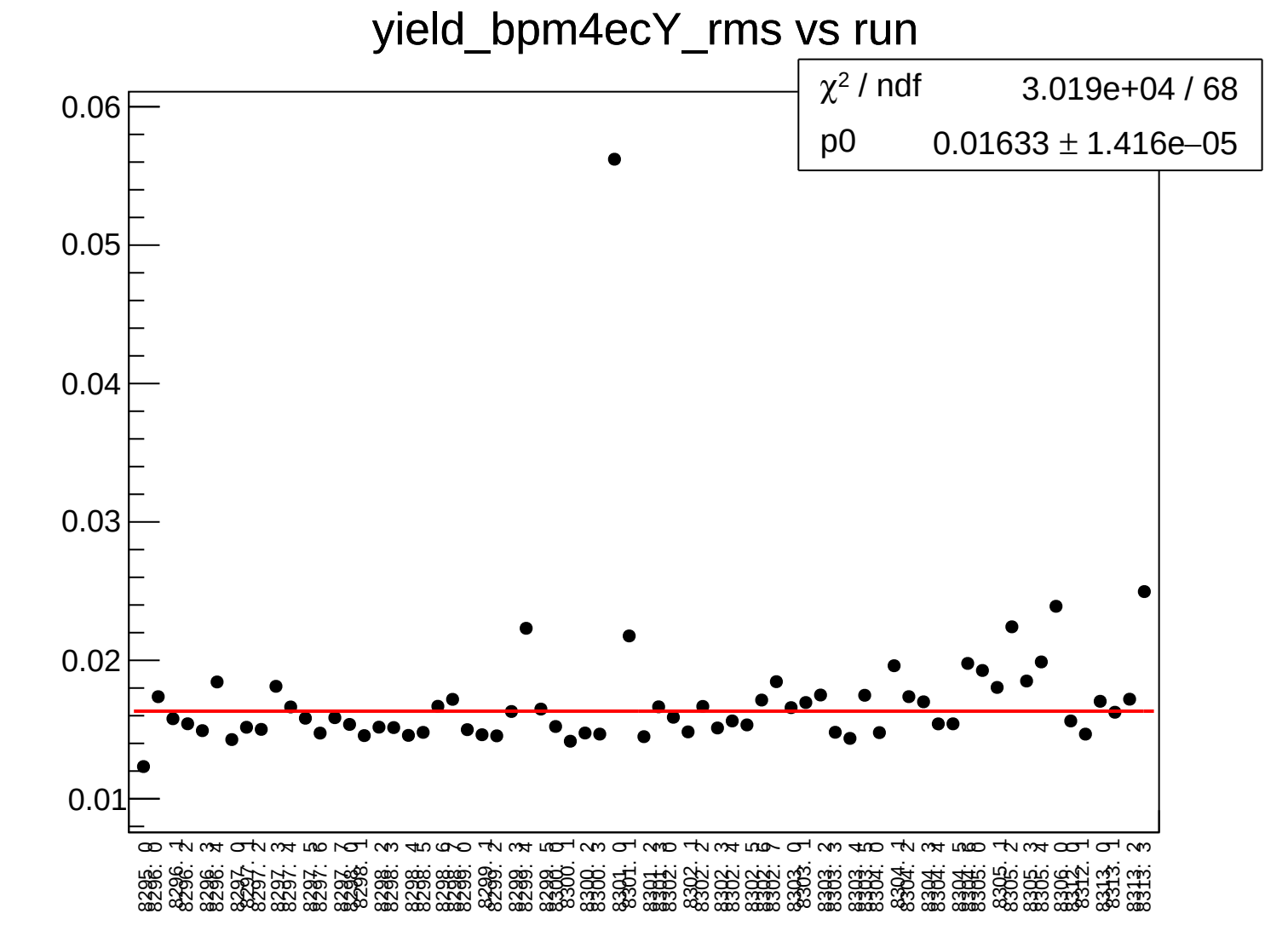

yield_bpm4ecX_mean vs run
χ² / ndf 4.695e+04 / 68
p0 −0.4542 ± 6.243e−05
−0.42
−0.44
−0.46
−0.48
−0.5
−0.52
−0.54
pull
Entries 69
Mean −942
Std Dev 989.2
60
40
20
0
−20
−40
−60
−80
−100

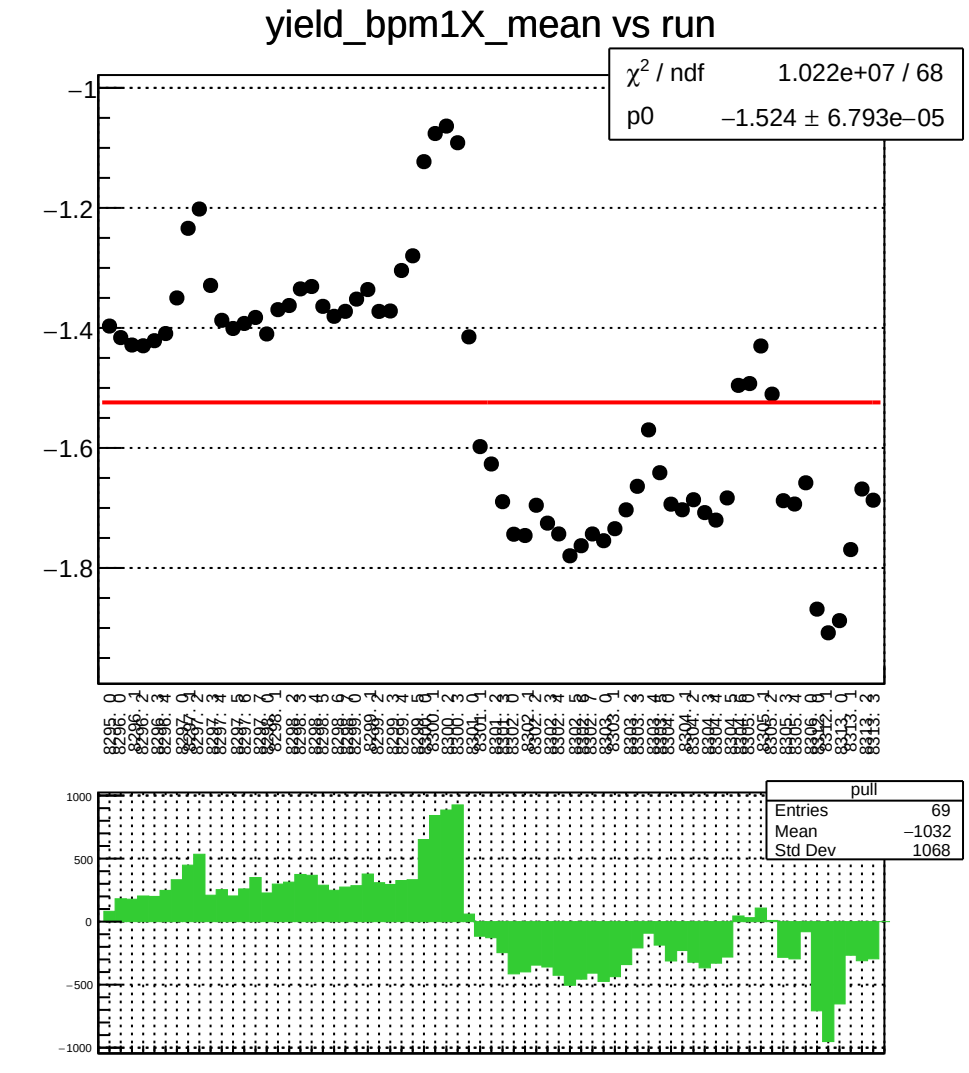

pull1D
Entries 69
Mean −1.206
Std Dev 3.967
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

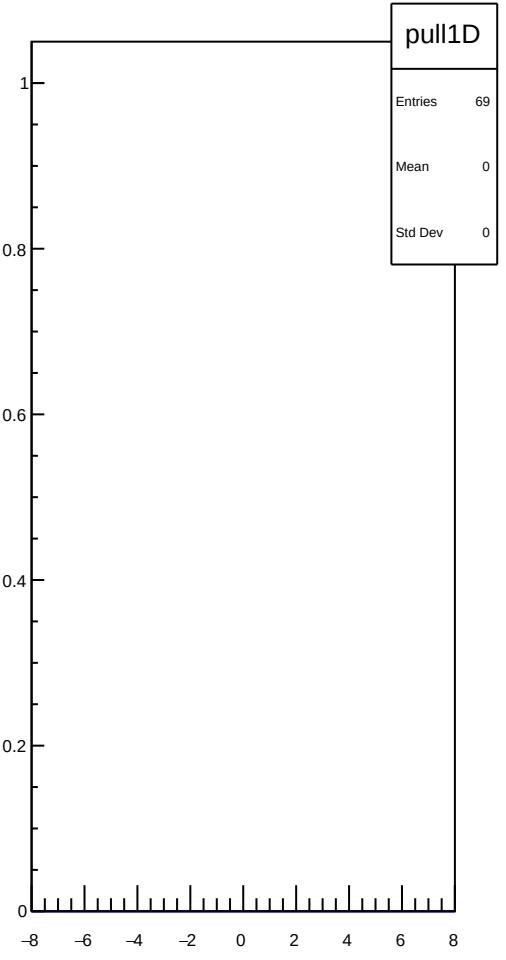

yield_bpm4ecX_rms vs run
χ² / ndf 5.435e+04 / 68
p0 0.05044 ± 4.415e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

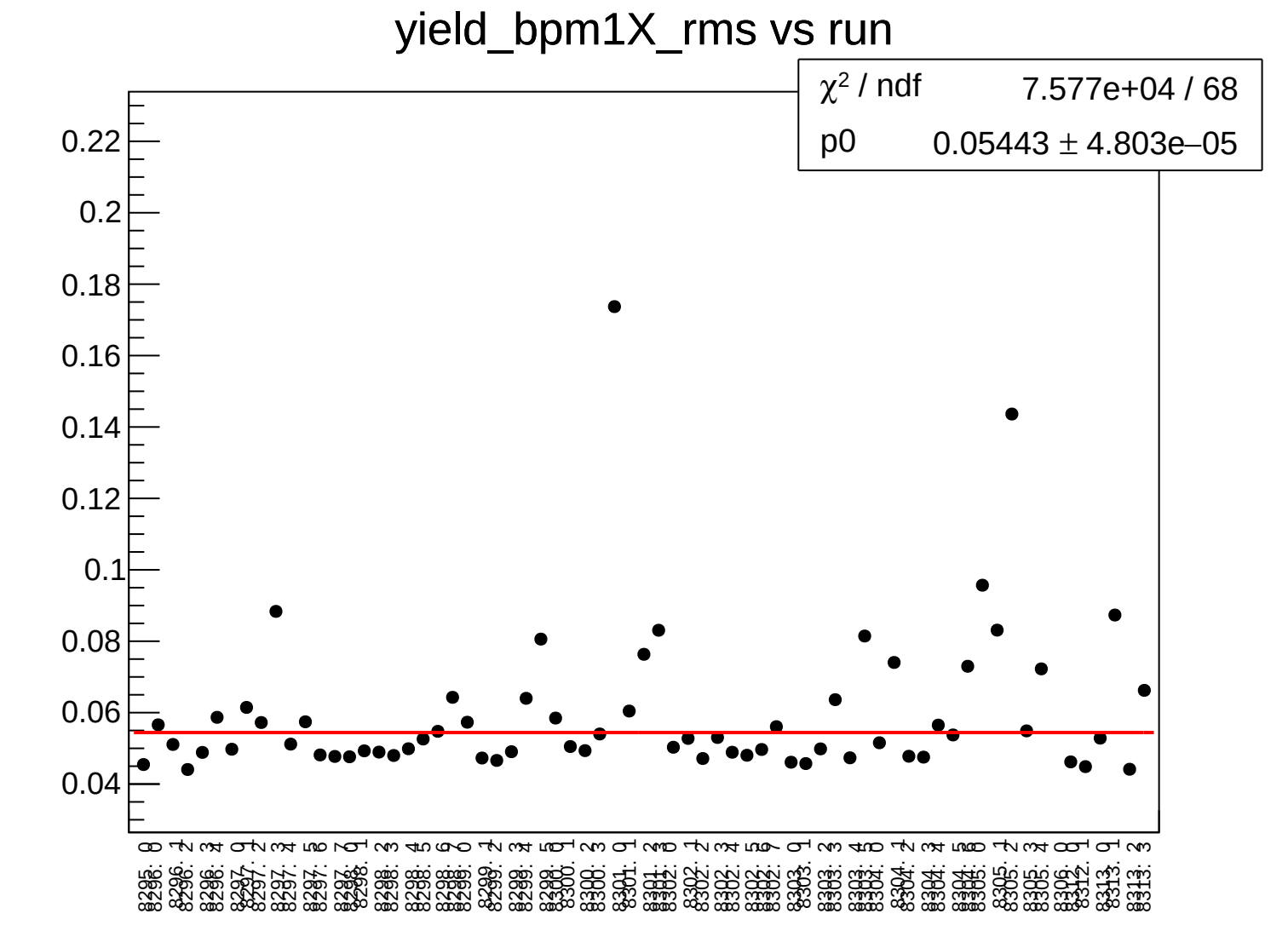

yield_bpm4ecY_mean vs run
χ² / ndf 7.486e+04 / 68
p0 −0.1775 ± 2.003e−05
−0.16
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
pull
Entries 69
Mean 449.7
Std Dev 407.4
120
100
80
60
40
20
0
−20
−40
−60

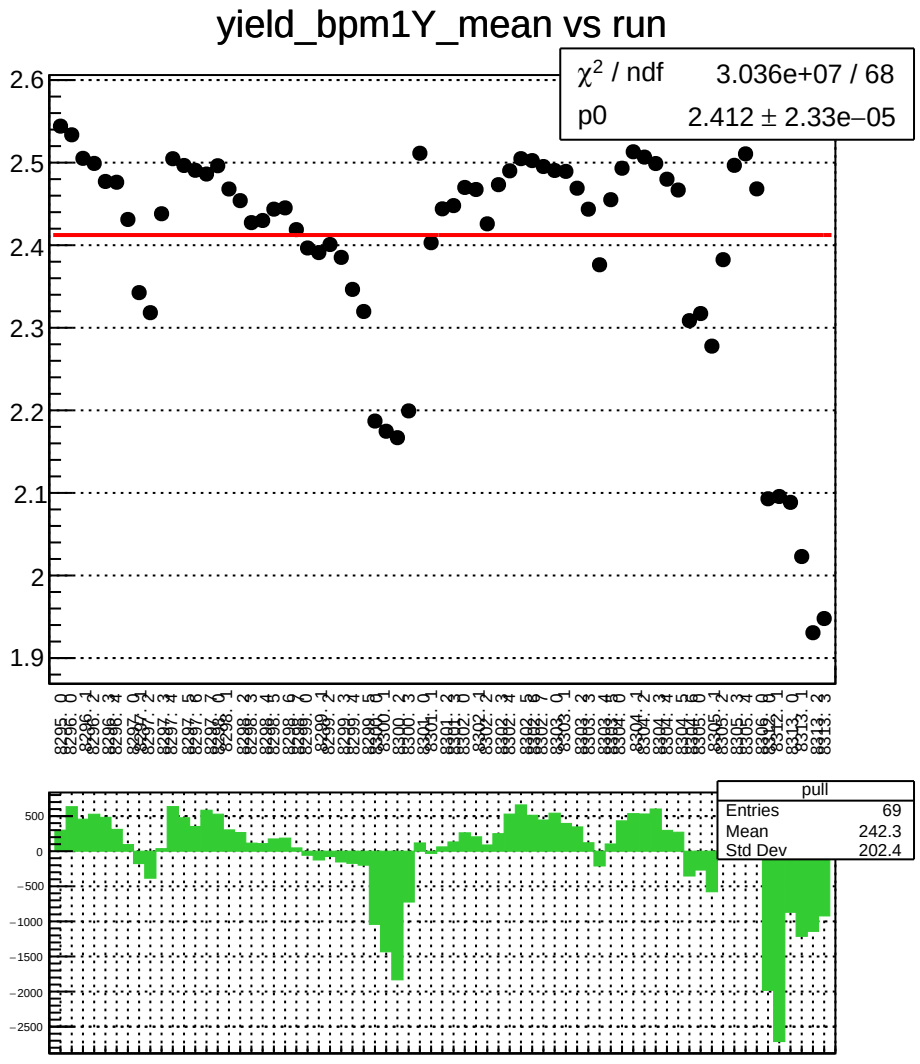

pull1D
Entries 69
Mean −0.1709
Std Dev 3.657
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

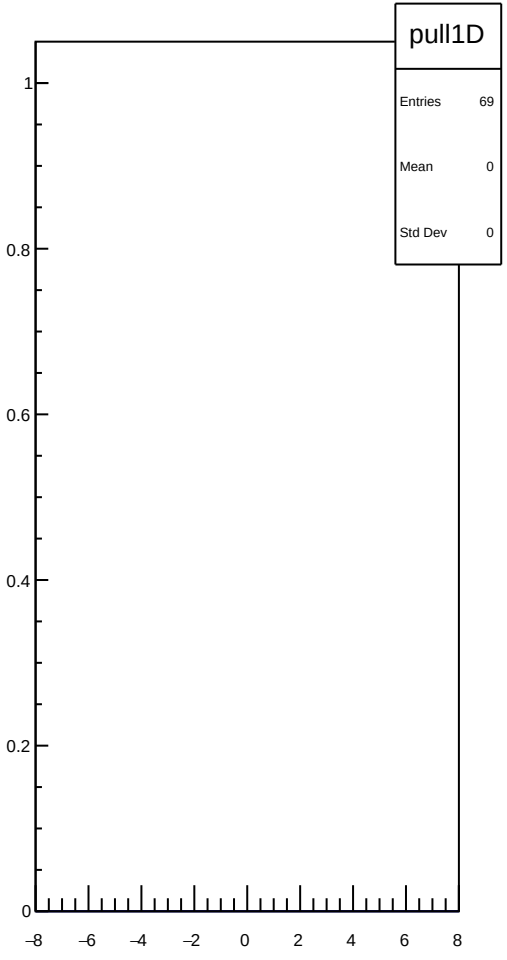

yield_bpm4ecY_rms vs run
χ² / ndf 3.019e+04 / 68
p0 0.01633 ± 1.416e–05
0.06
0.05
0.04
0.03
0.02
0.01

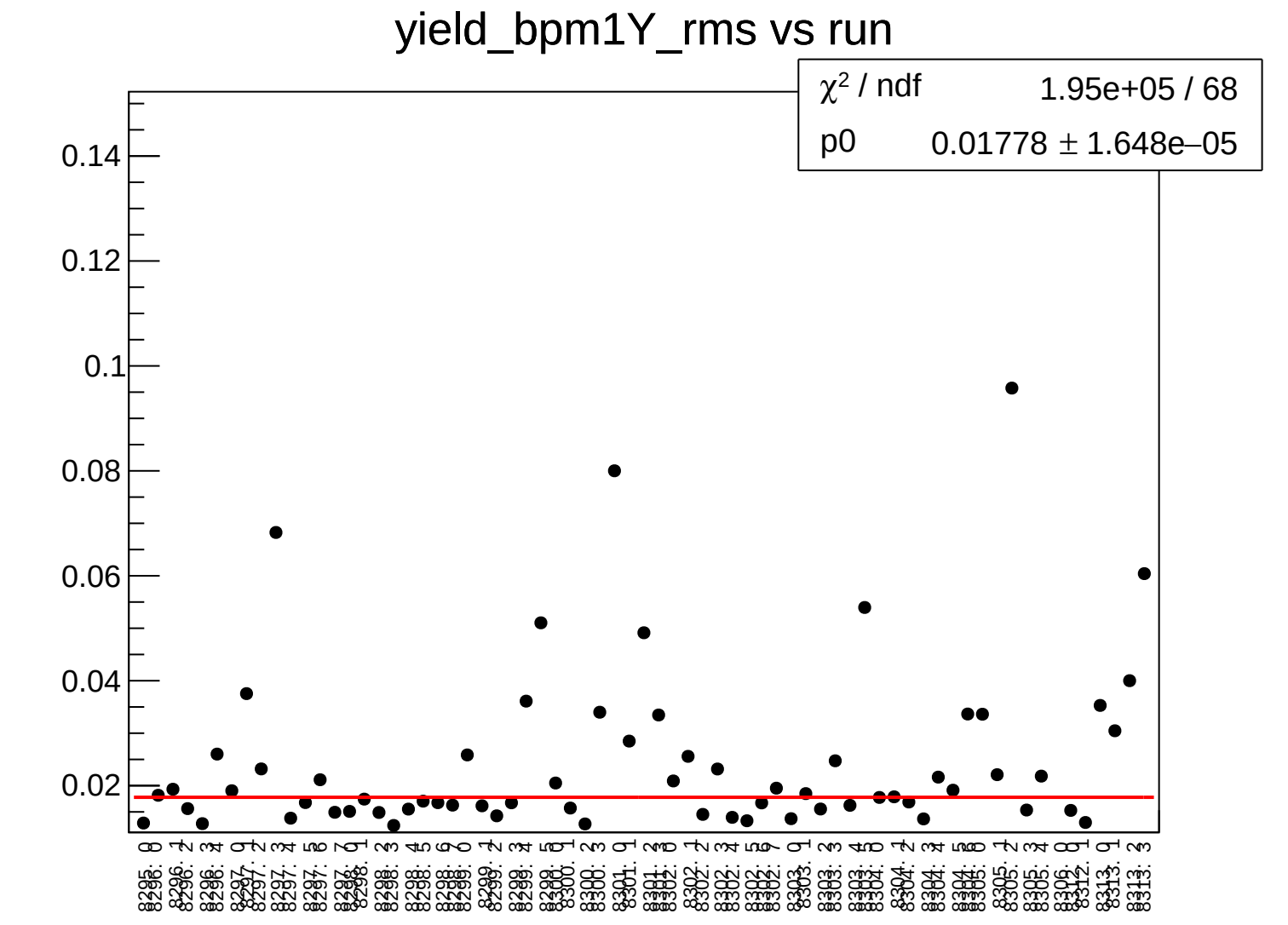

yield_bpm1X_mean vs run
χ² / ndf 1.022e+07 / 68
p0 −1.524 ± 6.793e−05
pull
Entries 69
Mean −1032
Std Dev 1068

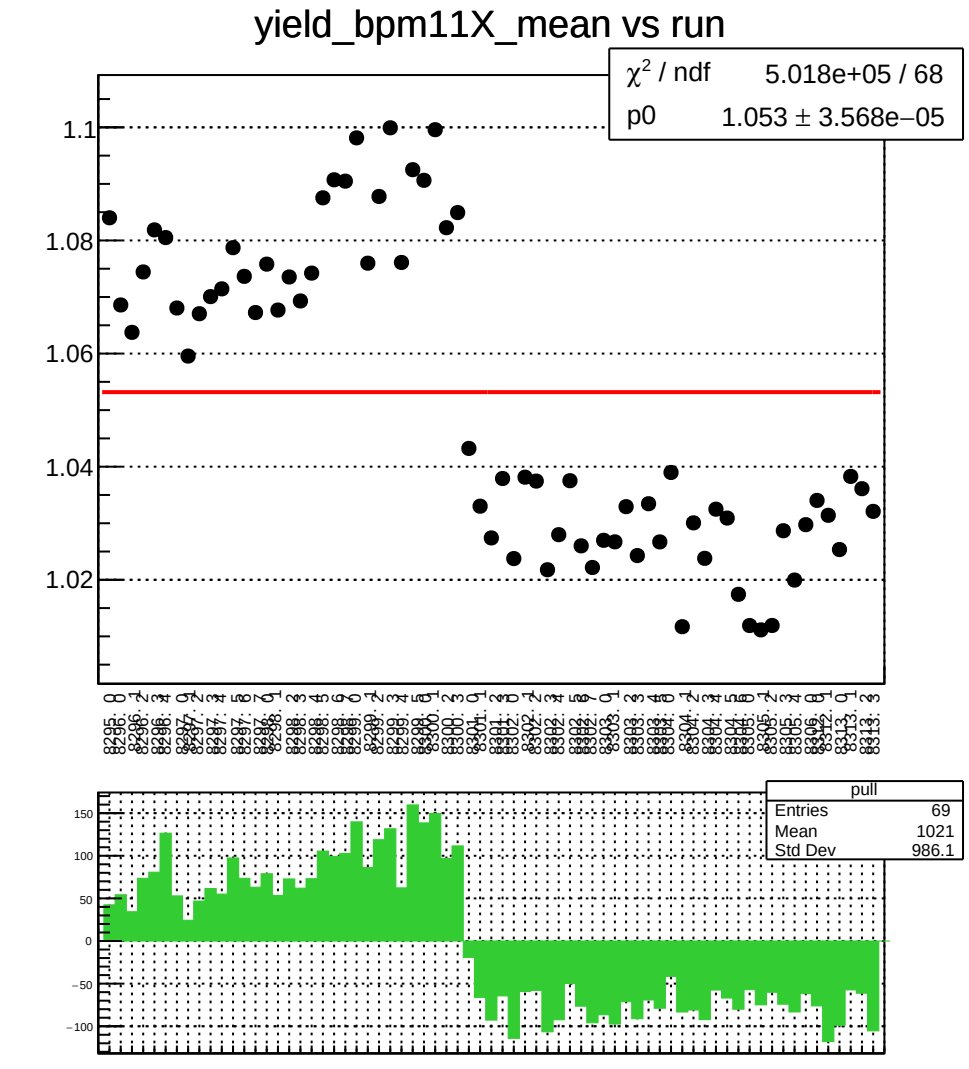

pull1D
Entries 69
Mean 0
Std Dev 0

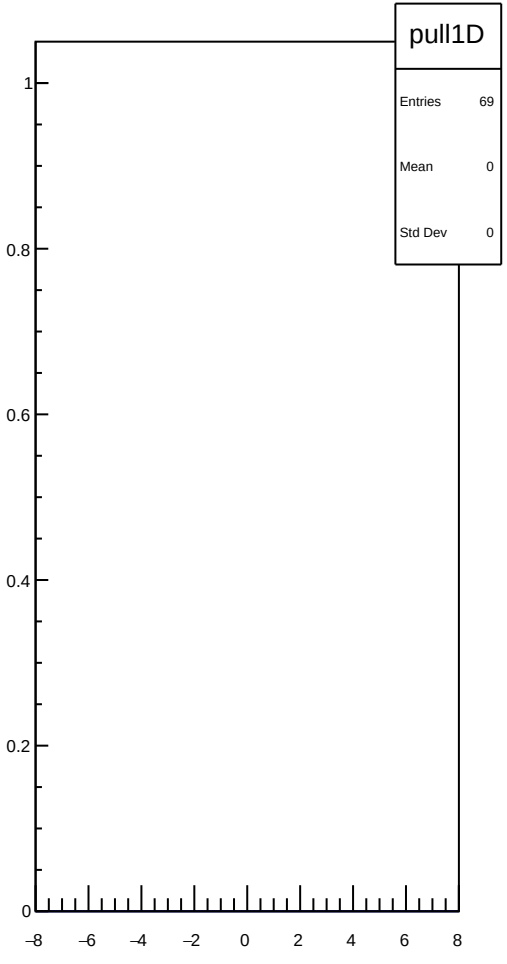

yield_bpm1X_rms vs run
χ² / ndf 7.577e+04 / 68
p0 0.05443 ± 4.803e−05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

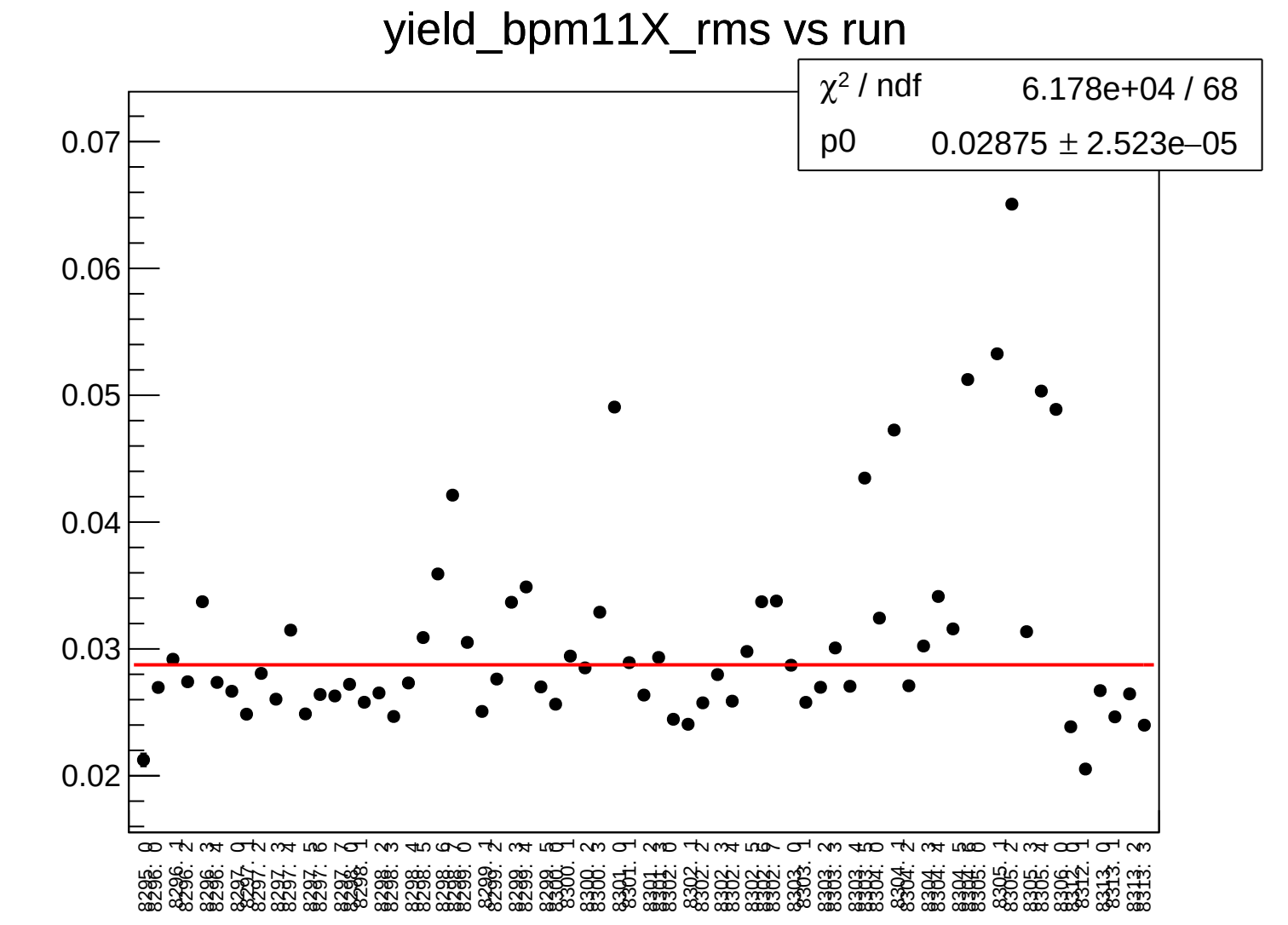

yield_bpm1Y_mean vs run
χ² / ndf 3.036e+07 / 68
p0 2.412 ± 2.33e−05
pull
Entries 69
Mean 242.3
Std Dev 202.4

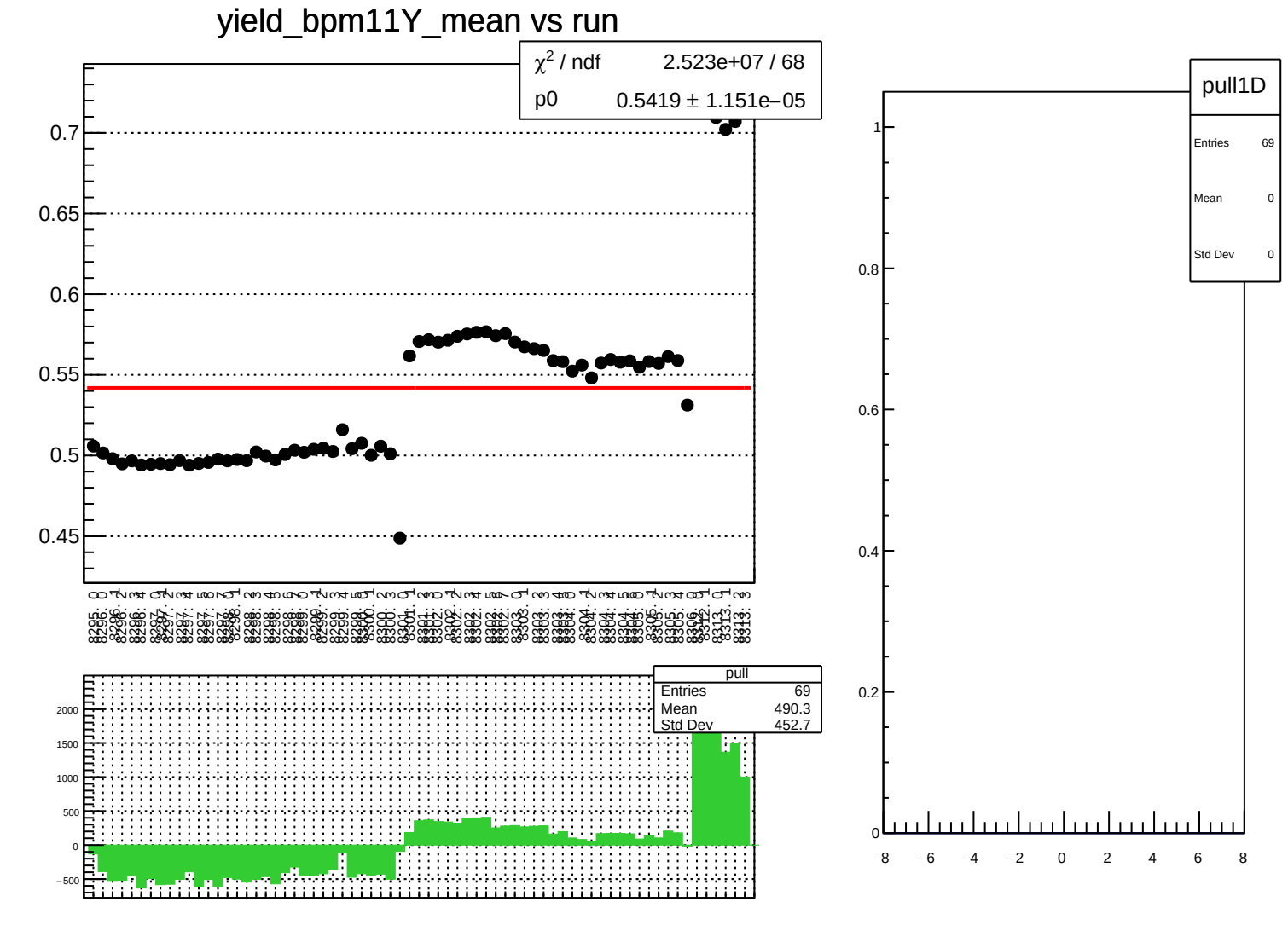

pull1D
Entries 69
Mean 0
Std Dev 0

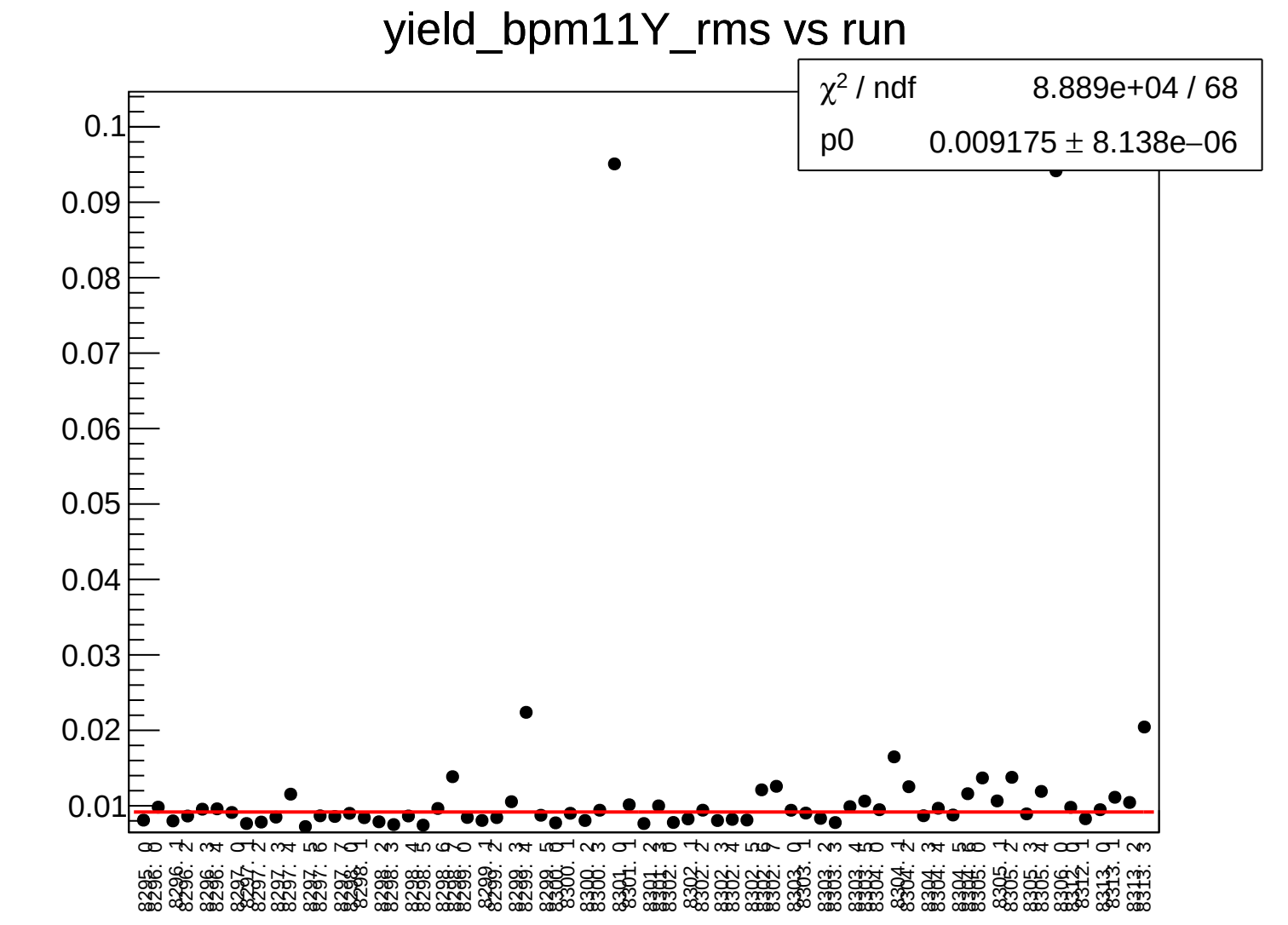

yield_bpm1Y_rms vs run
χ² / ndf 1.95e+05 / 68
p0 0.01778 ± 1.648e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

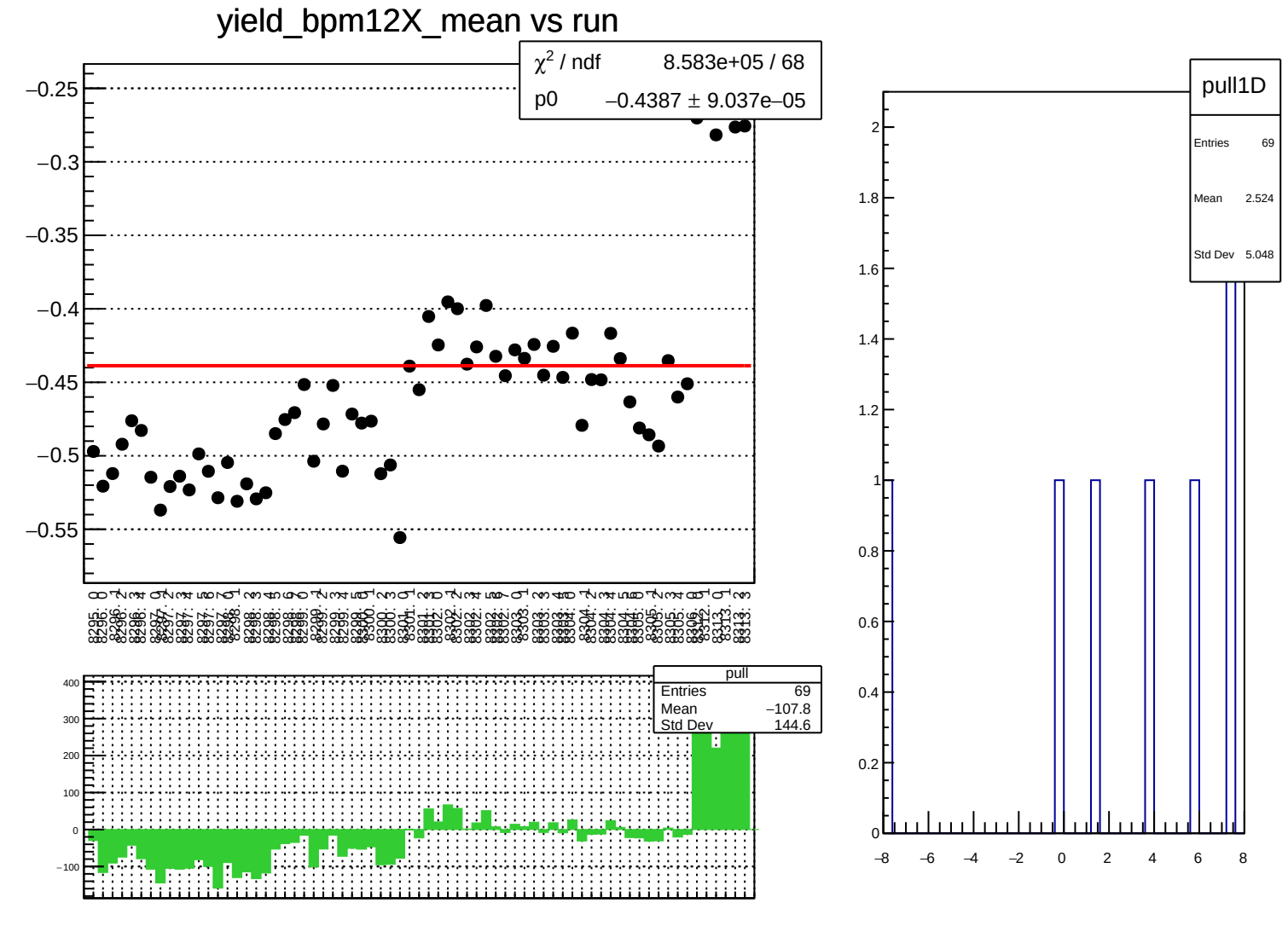

yield_bpm11X_mean vs run
χ² / ndf 5.018e+05 / 68
p0 1.053 ± 3.568e−05
1.1
1.08
1.06
1.04
1.02
pull
Entries 69
Mean 1021
Std Dev 986.1
150
100
50
0
−50
−100

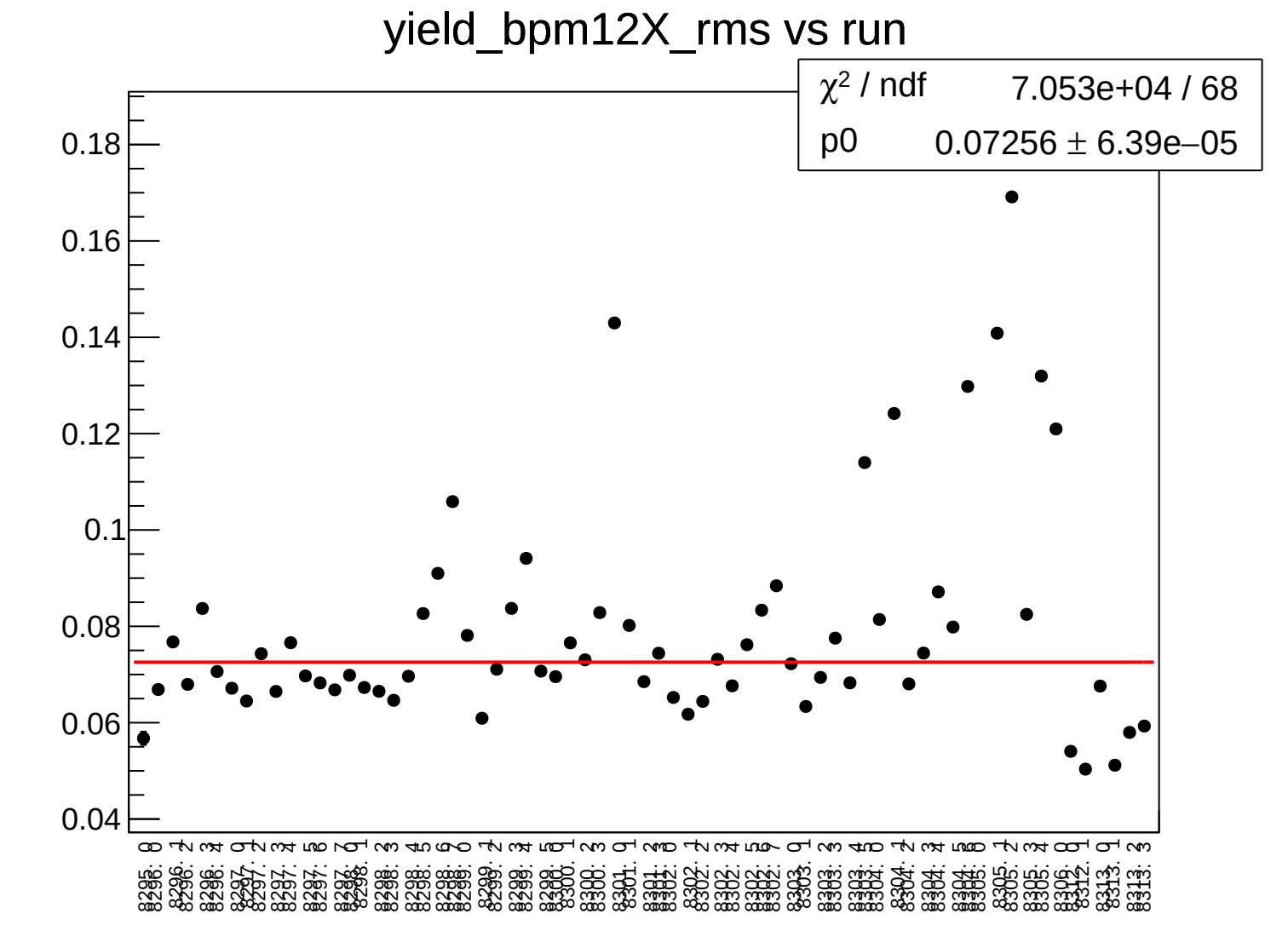

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

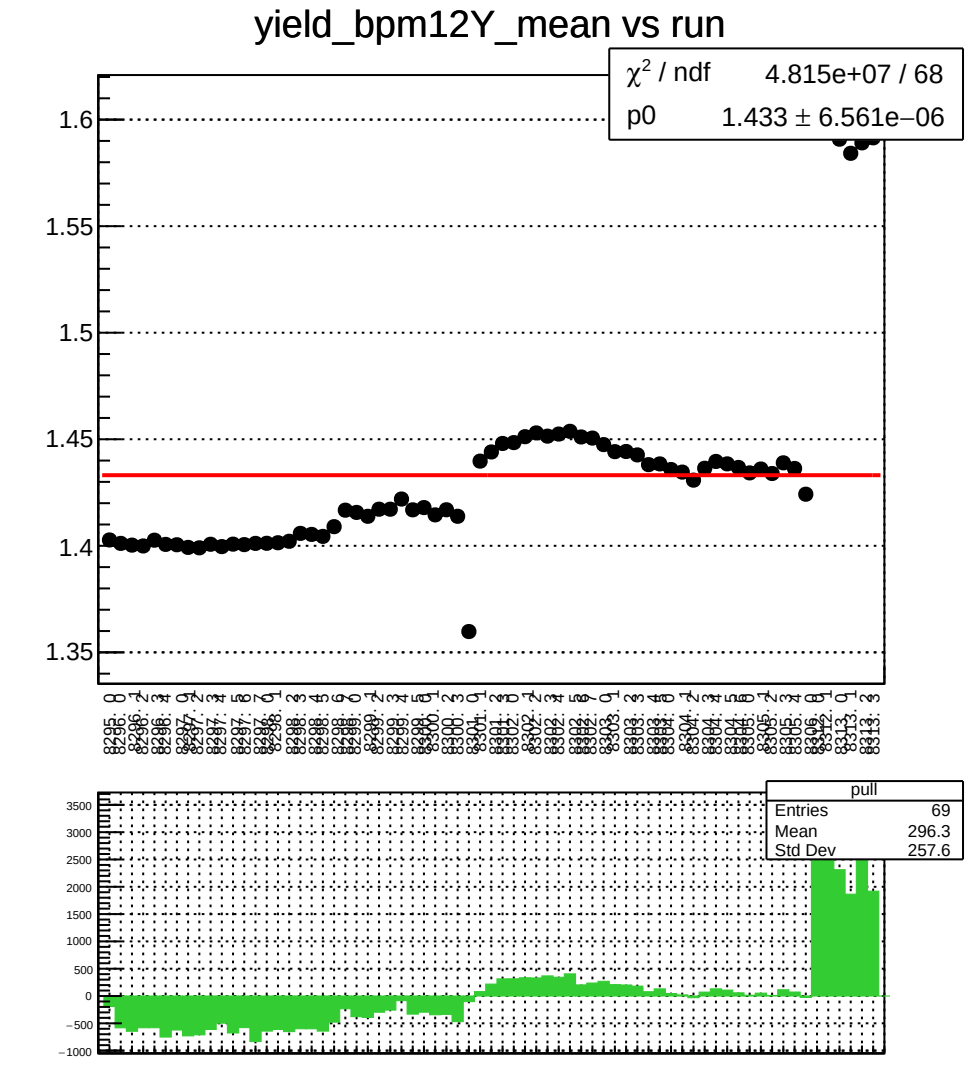

yield_bpm11X_rms vs run
χ² / ndf 6.178e+04 / 68
p0 0.02875 ± 2.523e−05
0.07
0.06
0.05
0.04
0.03
0.02

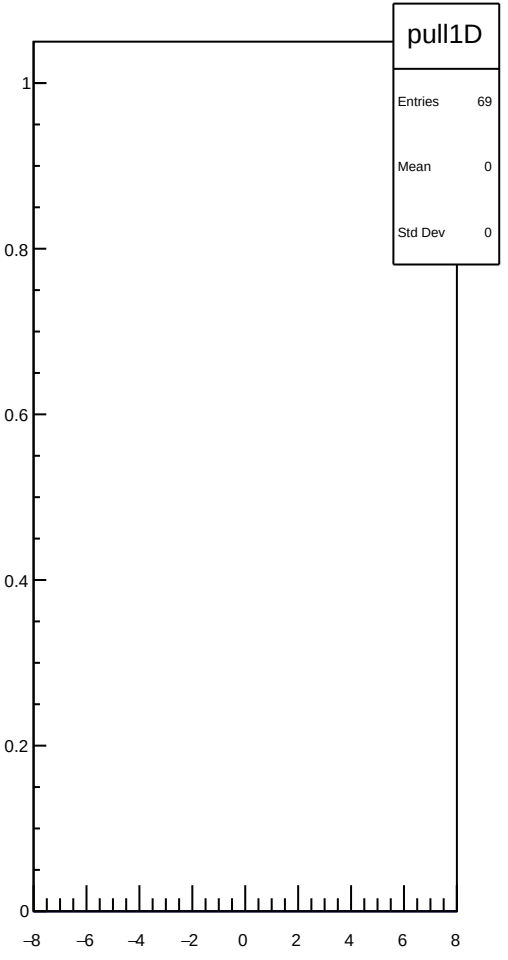

yield_bpm11Y_mean vs run
χ² / ndf 2.523e+07 / 68
p0 0.5419 ± 1.151e−05
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 69
Mean 490.3
Std Dev 452.7
2000
1500
1000
500
0
−500
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

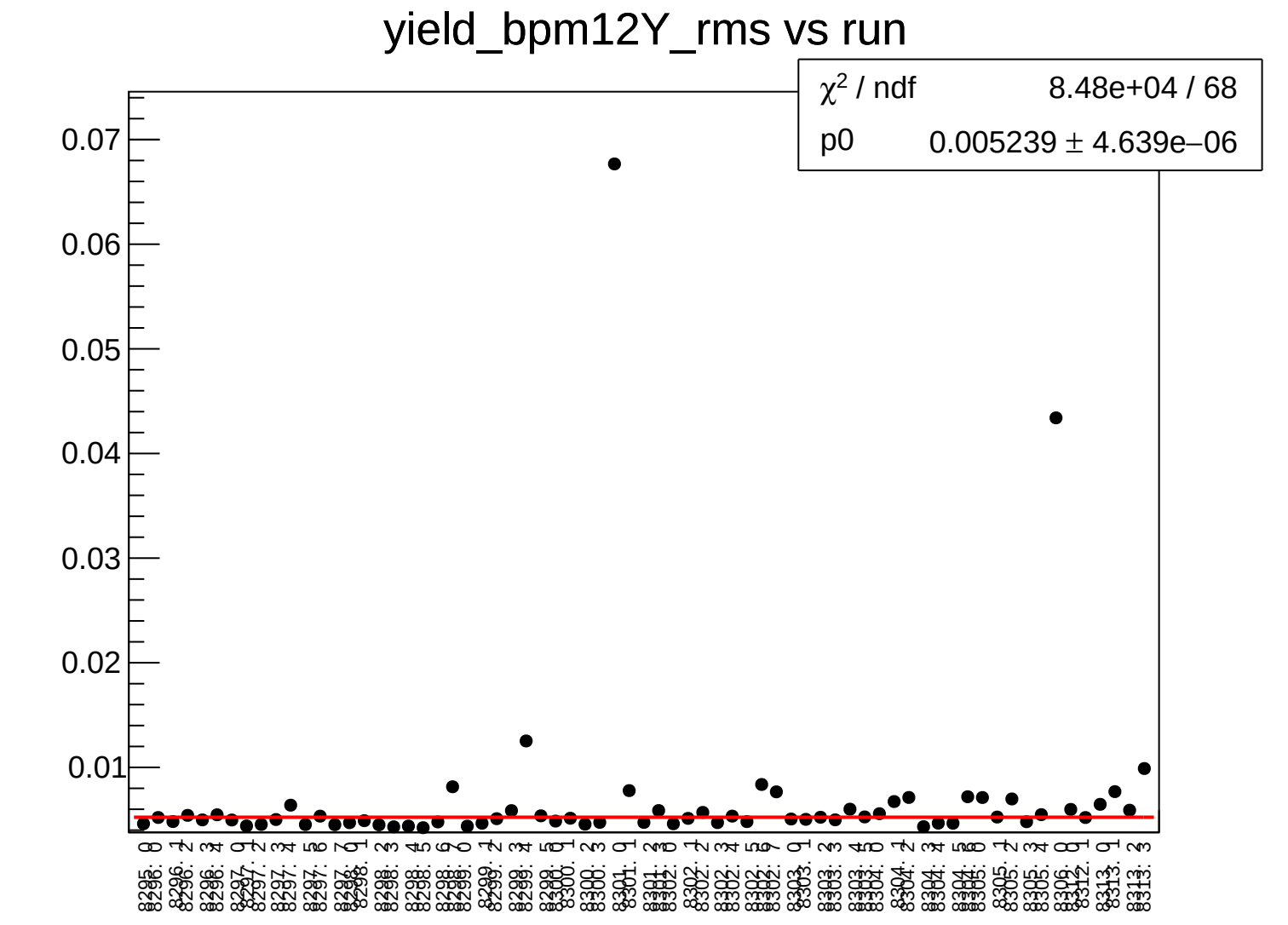

yield_bpm11Y_rms vs run
χ² / ndf 8.889e+04 / 68
p0 0.009175 ± 8.138e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

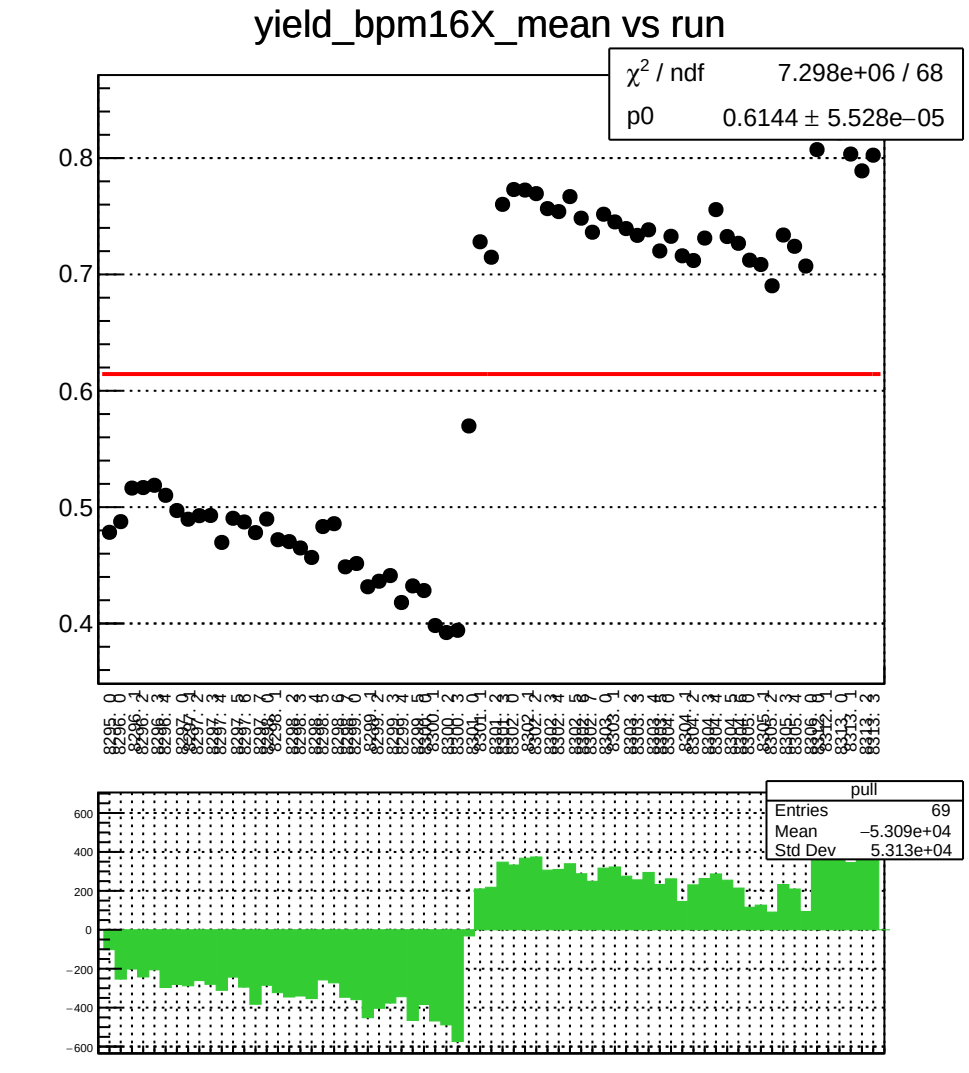

yield_bpm12X_mean vs run
χ² / ndf 8.583e+05 / 68
p0 −0.4387 ± 9.037e−05
pull
Entries 69
Mean −107.8
Std Dev 144.6
pull1D
Entries 69
Mean 2.524
Std Dev 5.048

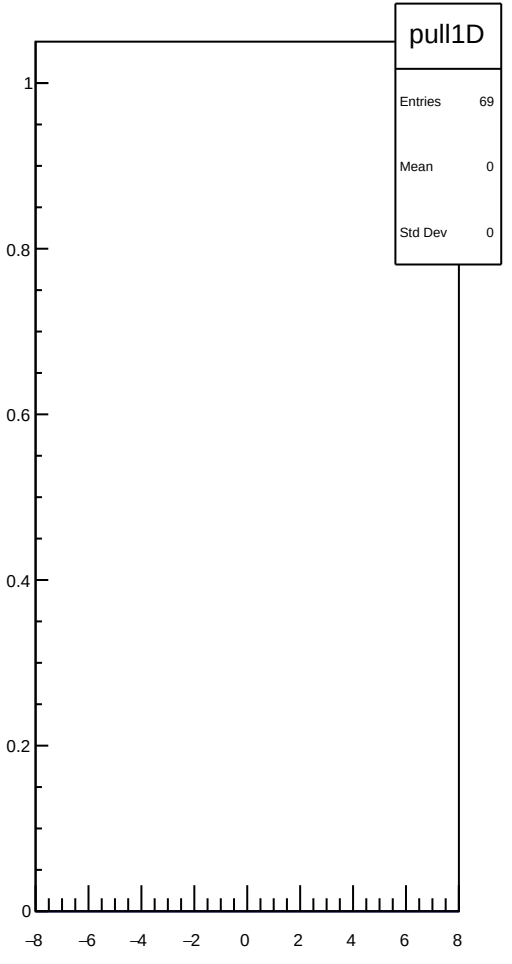

yield_bpm12X_rms vs run
χ² / ndf 7.053e+04 / 68
p0 0.07256 ± 6.39e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

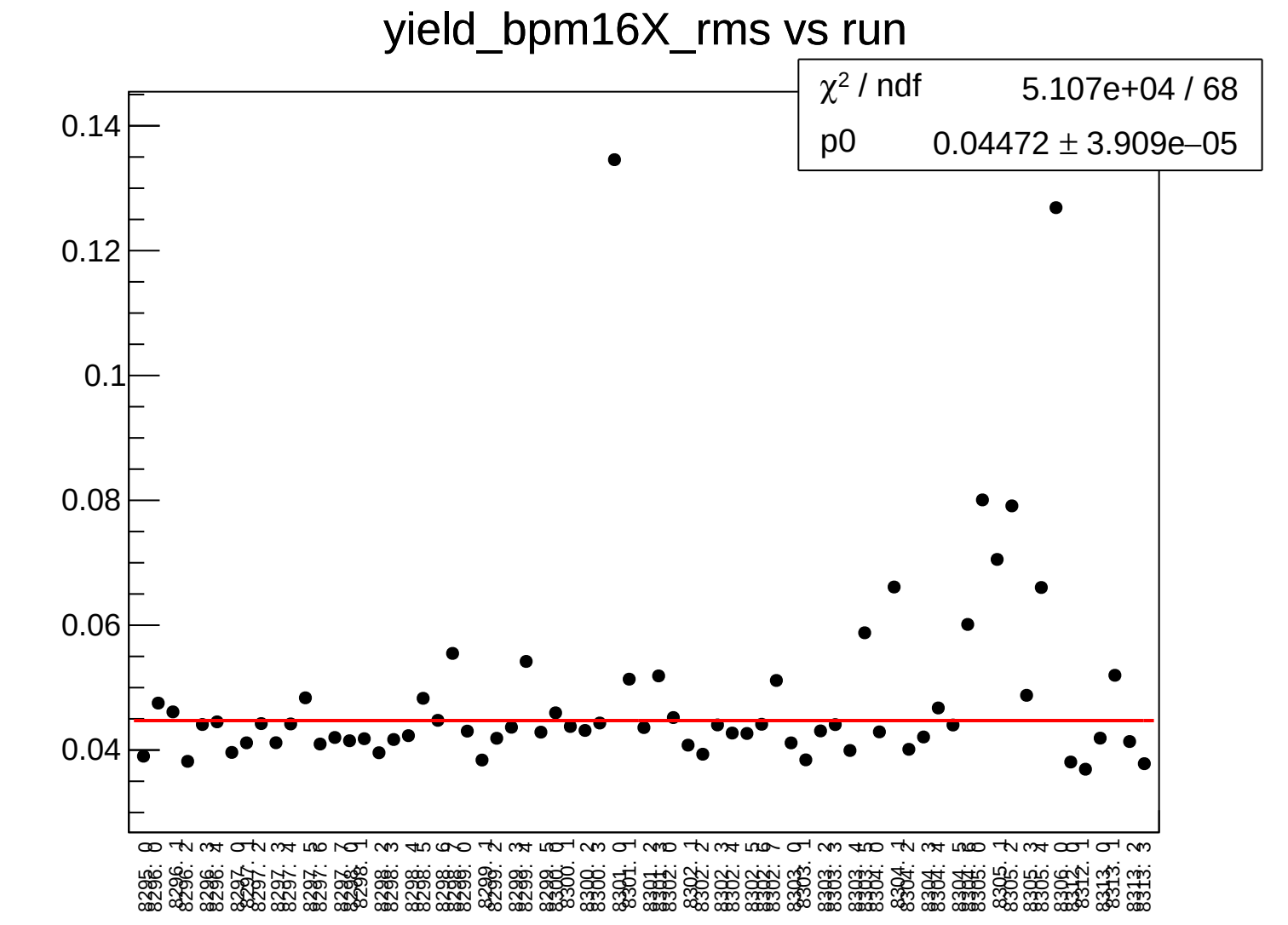

yield_bpm12Y_mean vs run
χ² / ndf 4.815e+07 / 68
p0 1.433 ± 6.561e−06
pull
Entries 69
Mean 296.3
Std Dev 257.6

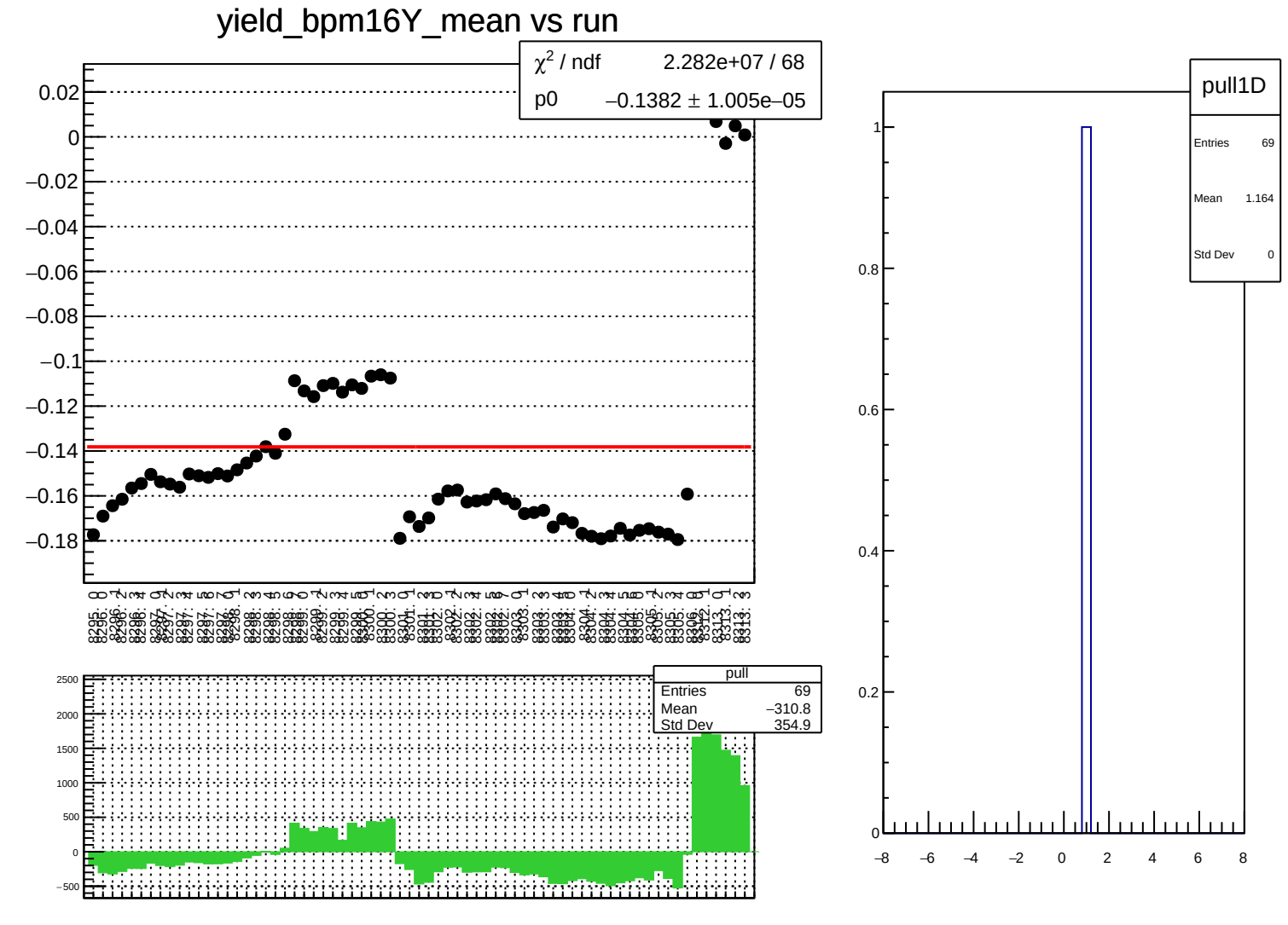

pull1D
Entries 69
Mean 0
Std Dev 0

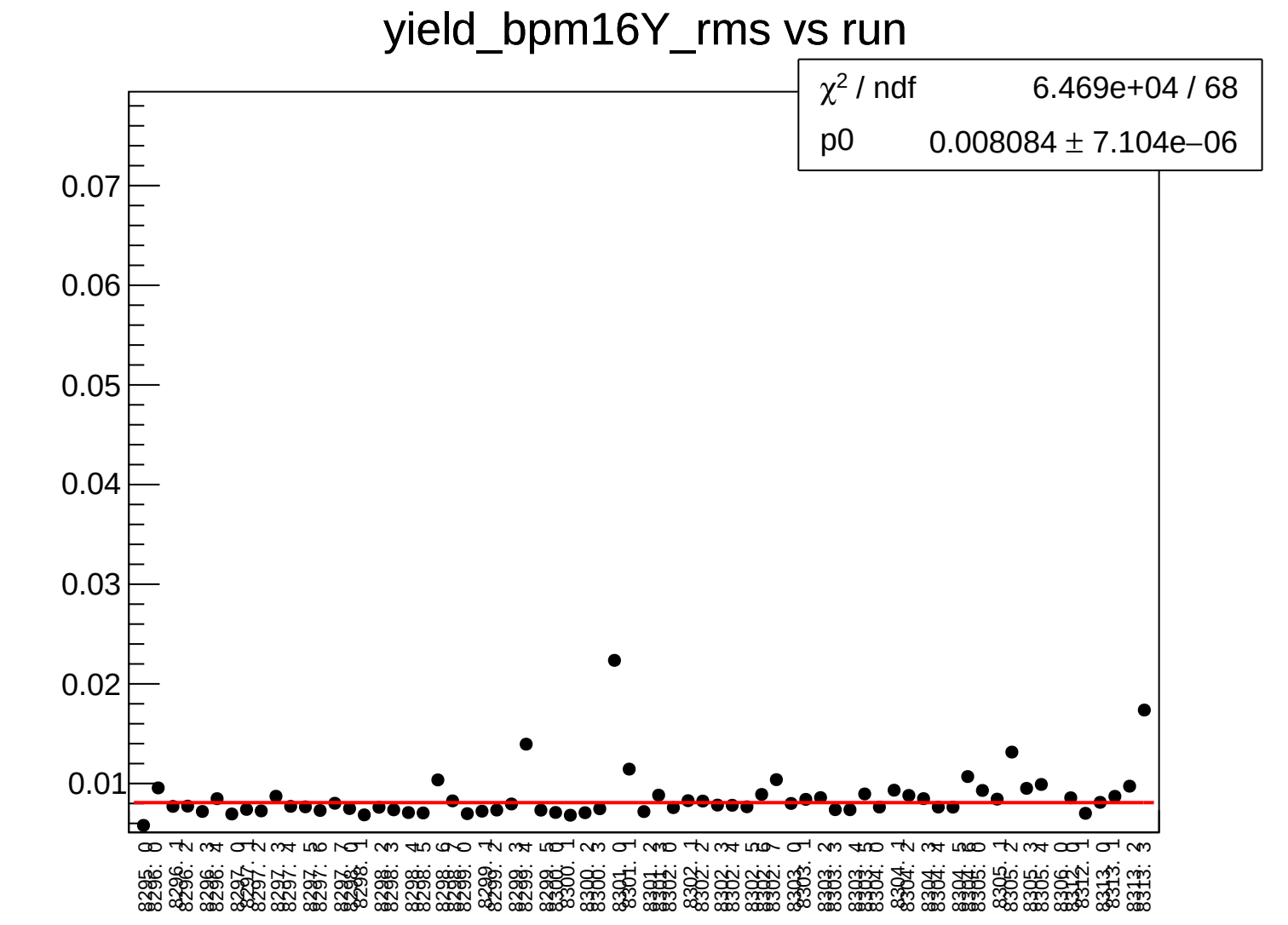

yield_bpm12Y_rms vs run
χ² / ndf 8.48e+04 / 68
p0 0.005239 ± 4.639e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

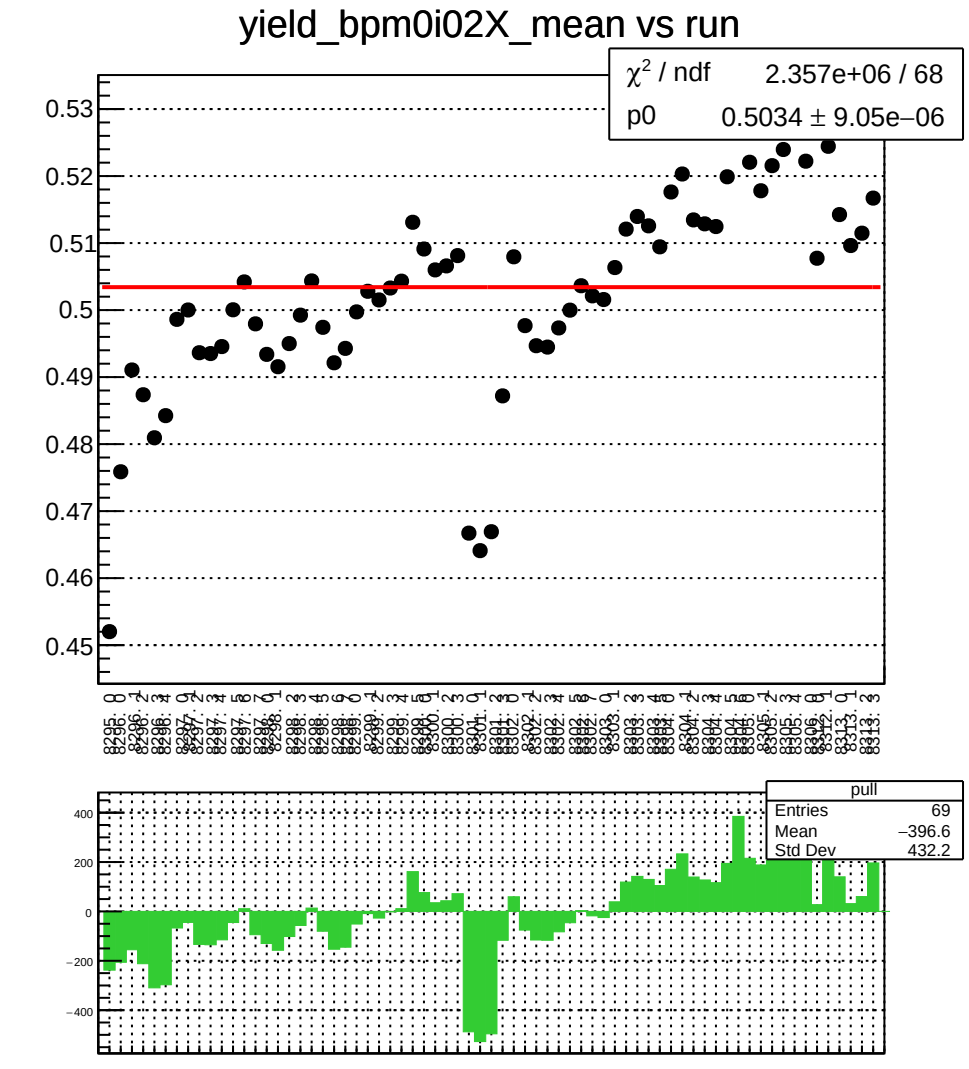

yield_bpm16X_mean vs run
χ² / ndf 7.298e+06 / 68
p0 0.6144 ± 5.528e−05
0.8
0.7
0.6
0.5
0.4
pull
Entries 69
Mean −5.309e+04
Std Dev 5.313e+04
600
400
200
0
−200
−400
−600

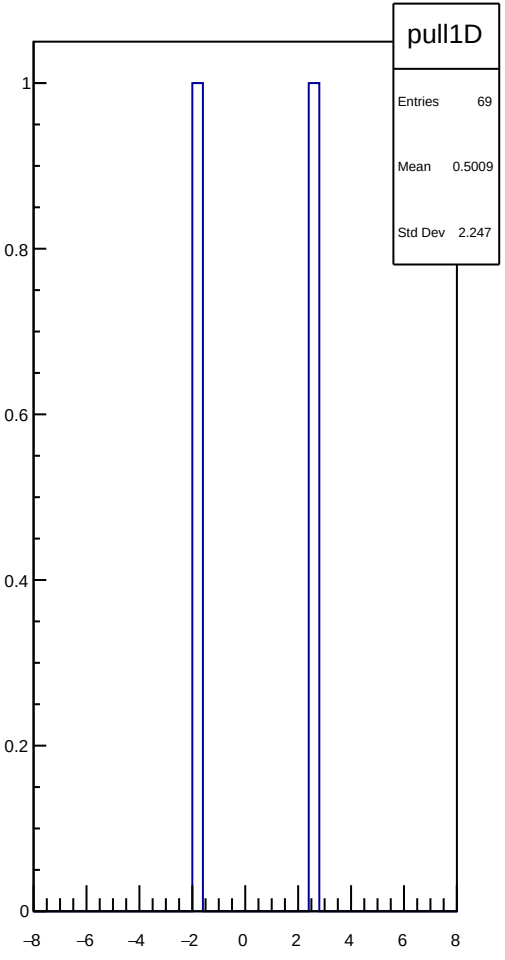

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

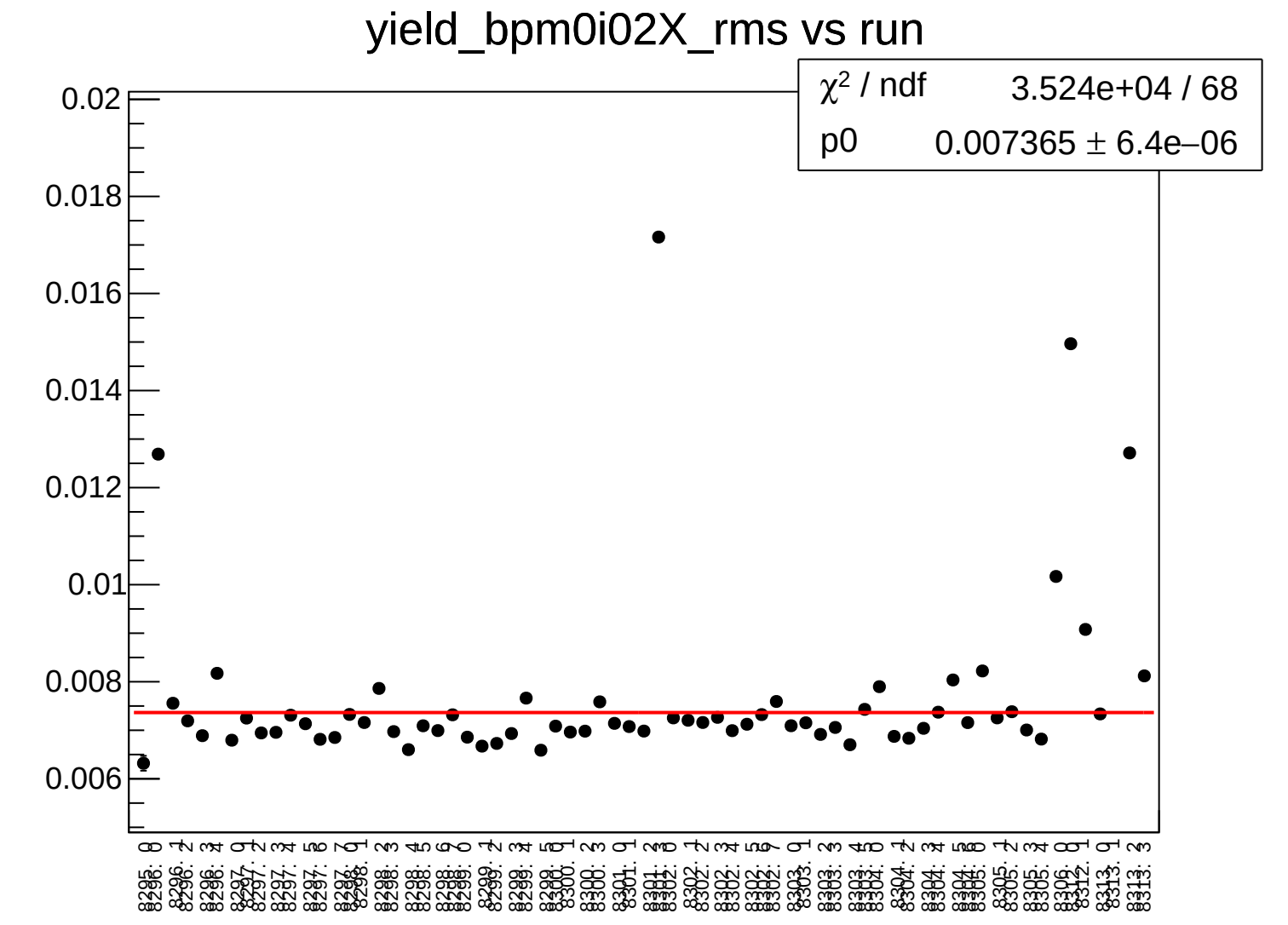

yield_bpm16X_rms vs run
χ² / ndf 5.107e+04 / 68
p0 0.04472 ± 3.909e–05
0.14
0.12
0.1
0.08
0.06
0.04

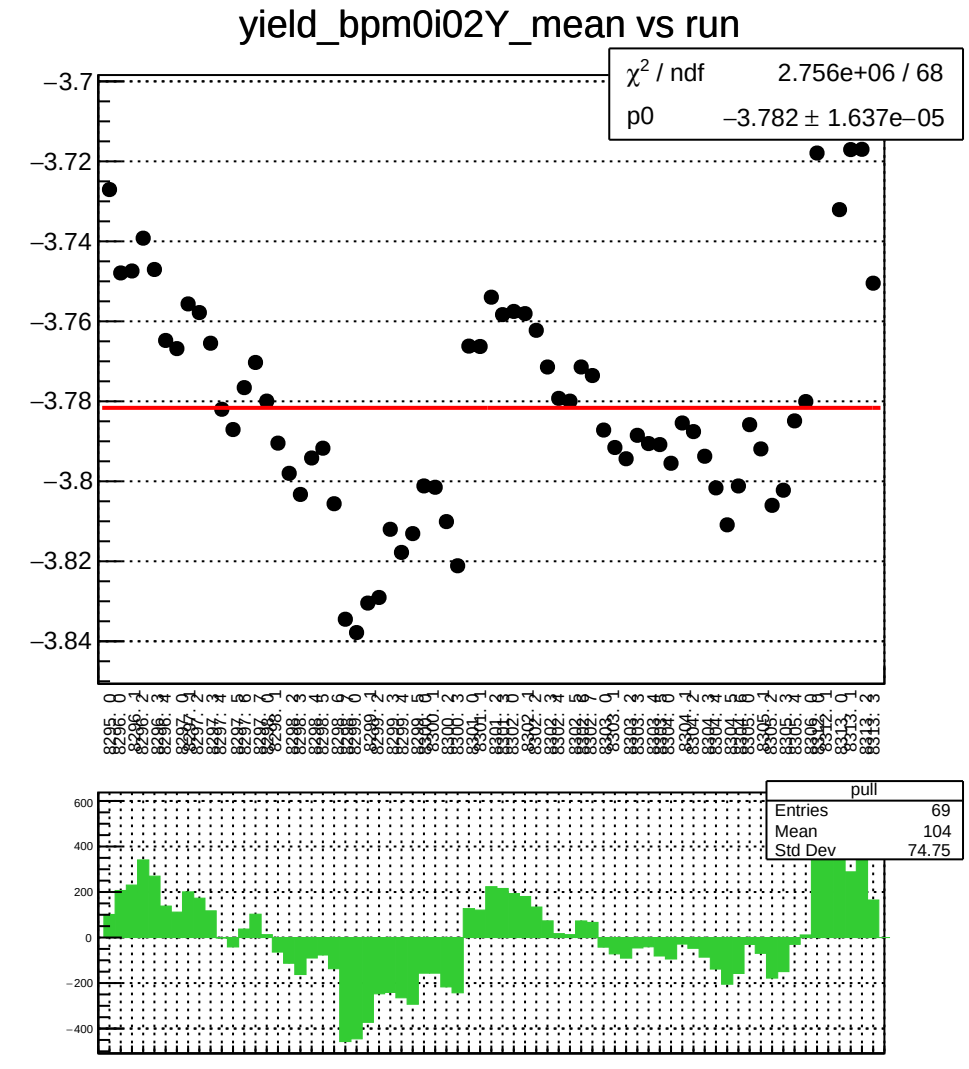

yield_bpm16Y_mean vs run
χ² / ndf 2.282e+07 / 68
p0 −0.1382 ± 1.005e−05
pull
Entries 69
Mean −310.8
Std Dev 354.9
pull1D
Entries 69
Mean 1.164
Std Dev 0

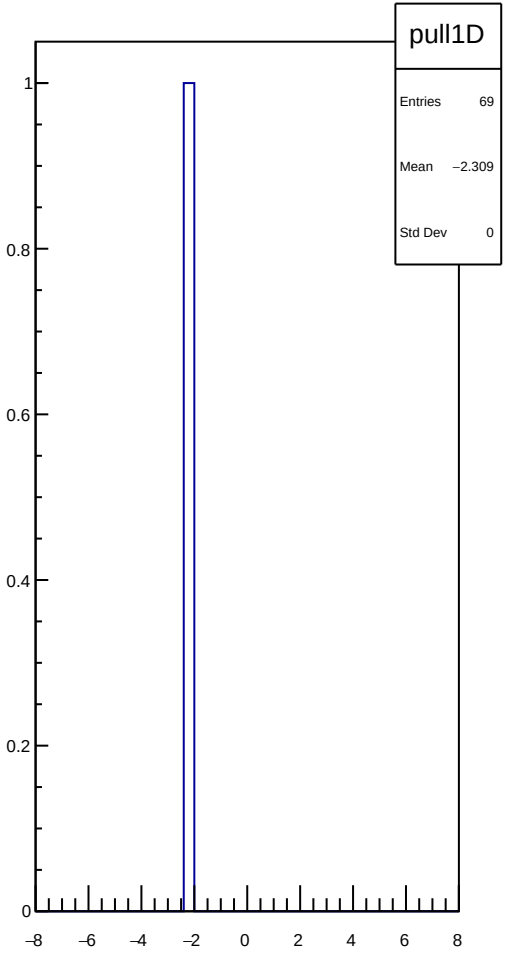

yield_bpm16Y_rms vs run
χ² / ndf 6.469e+04 / 68
p0 0.008084 ± 7.104e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

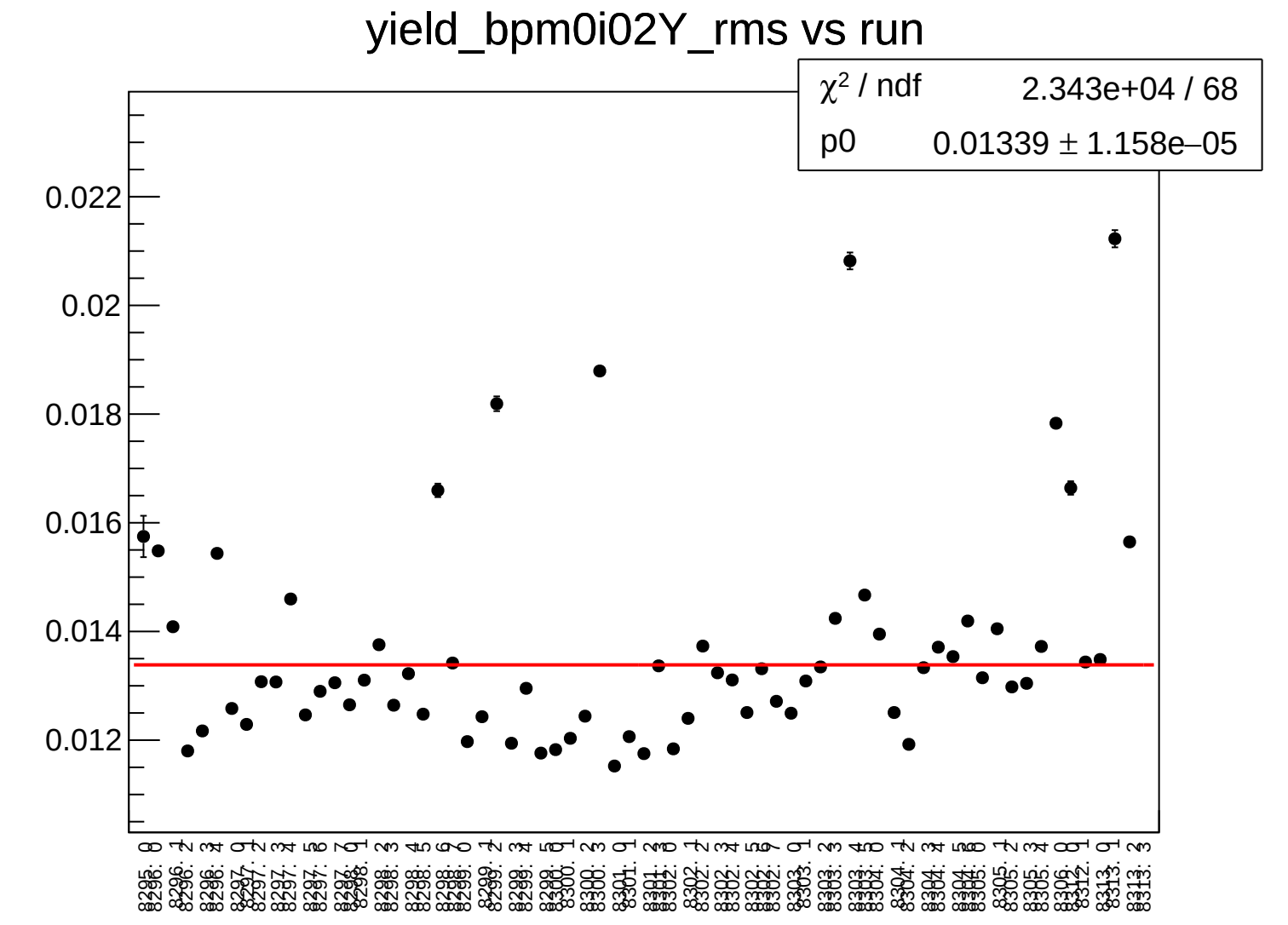

yield_bpm0i02X_mean vs run
χ² / ndf 2.357e+06 / 68
p0 0.5034 ± 9.05e−06
pull
Entries 69
Mean −396.6
Std Dev 432.2

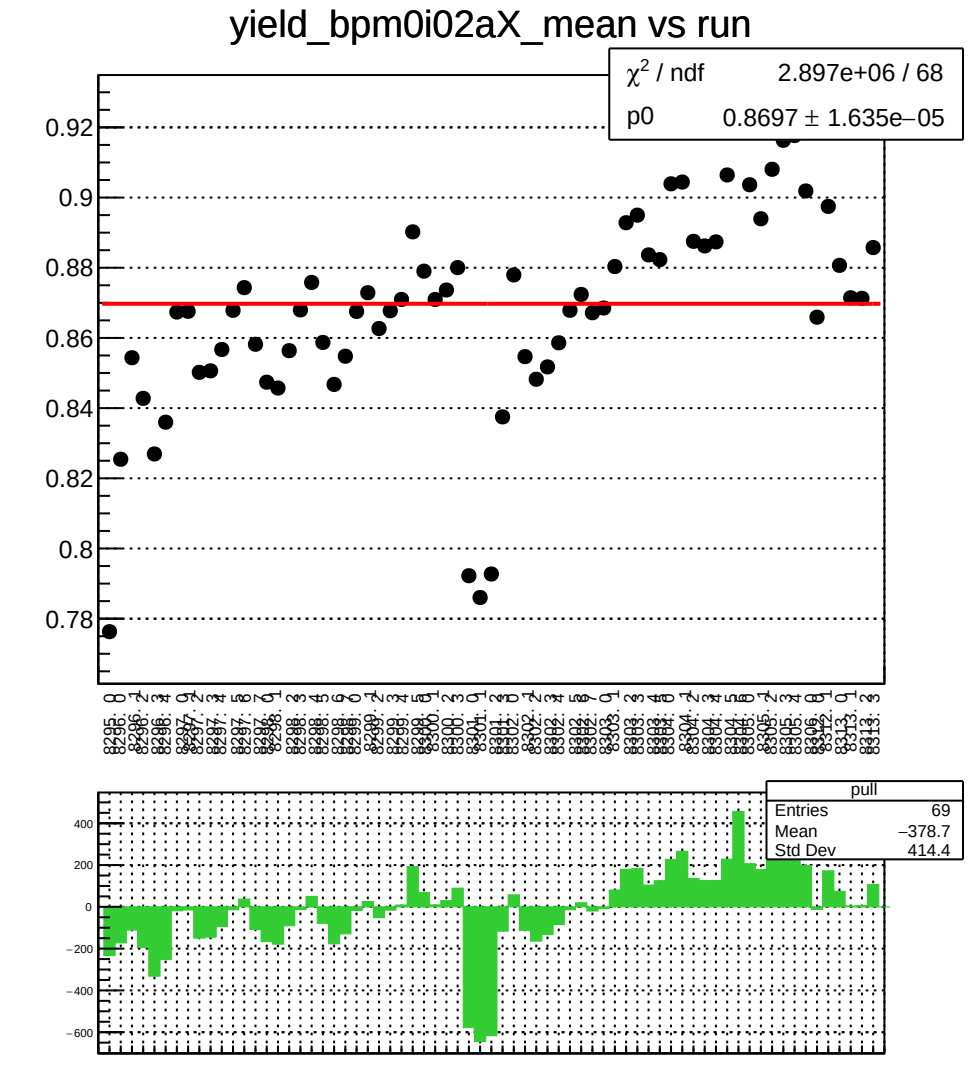

pull1D
Entries 69
Mean 0.5009
Std Dev 2.247

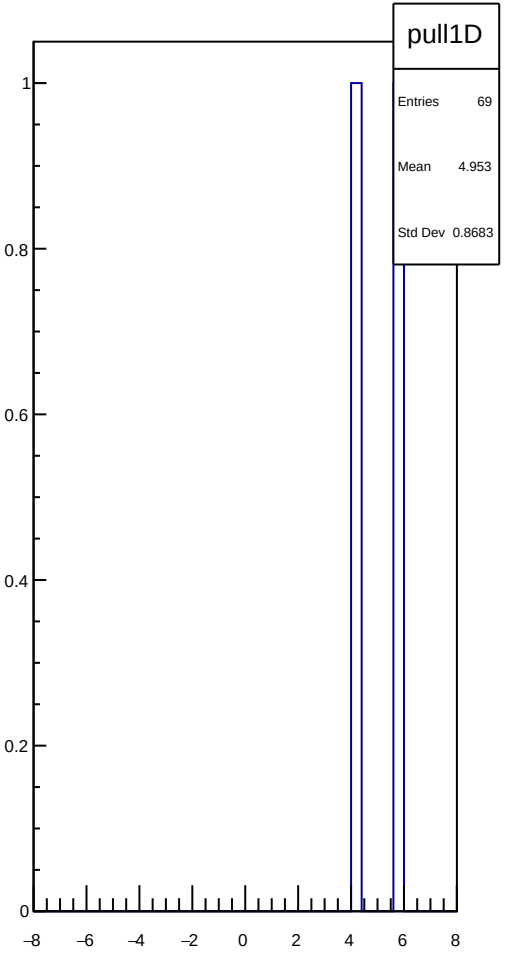

yield_bpm0i02X_rms vs run
χ² / ndf 3.524e+04 / 68
p0 0.007365 ± 6.4e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

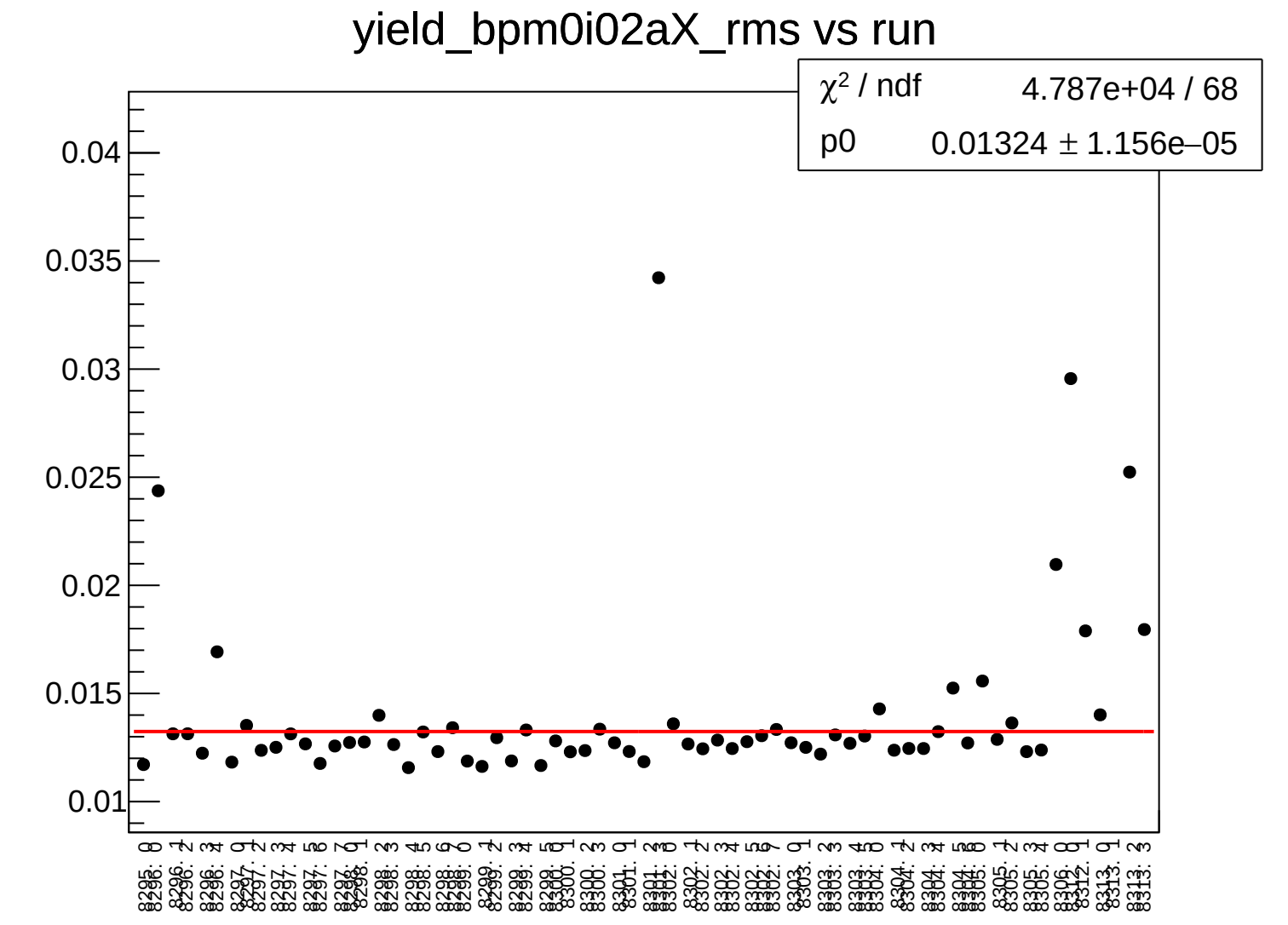

yield_bpm0i02Y_mean vs run
χ² / ndf 2.756e+06 / 68
p0 −3.782 ± 1.637e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
−3.82
−3.84
pull
Entries 69
Mean 104
Std Dev 74.75
600
400
200
0
−200
−400

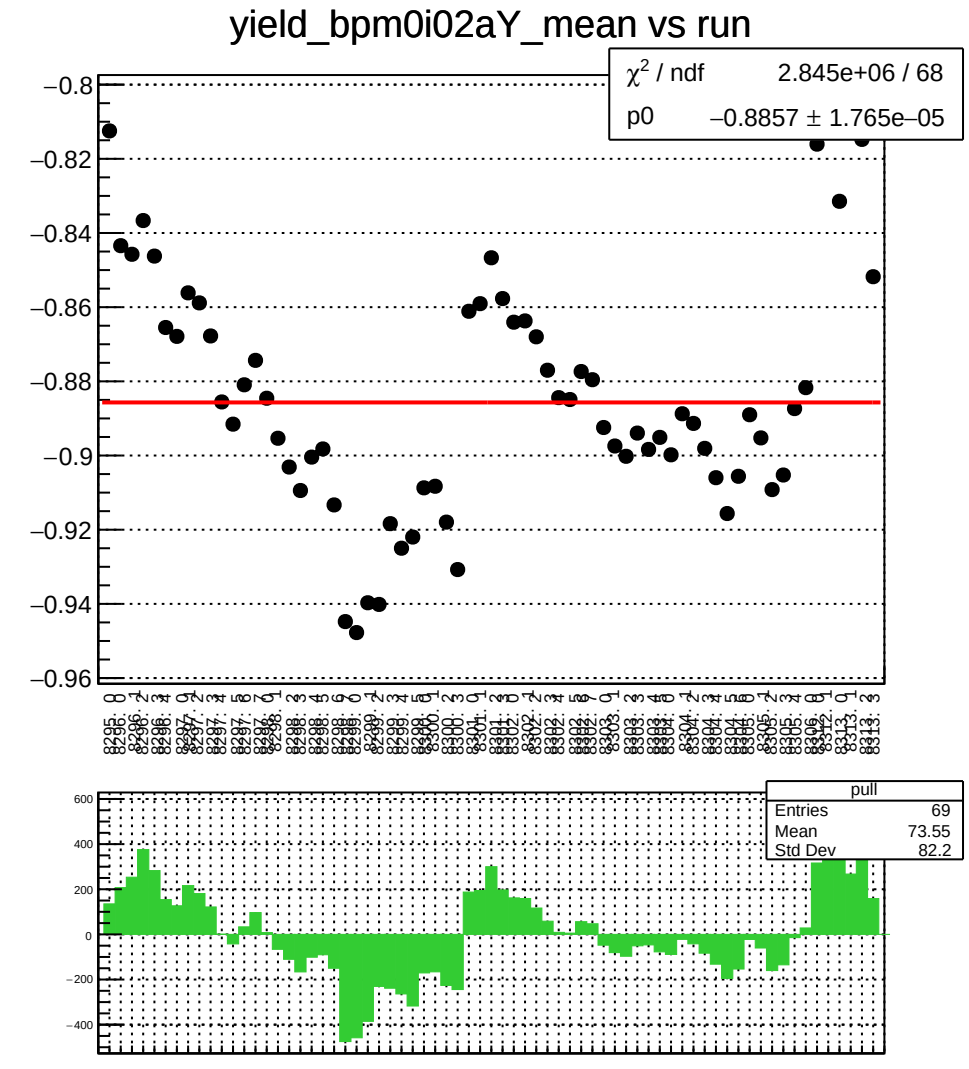

pull1D
Entries 69
Mean −2.309
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

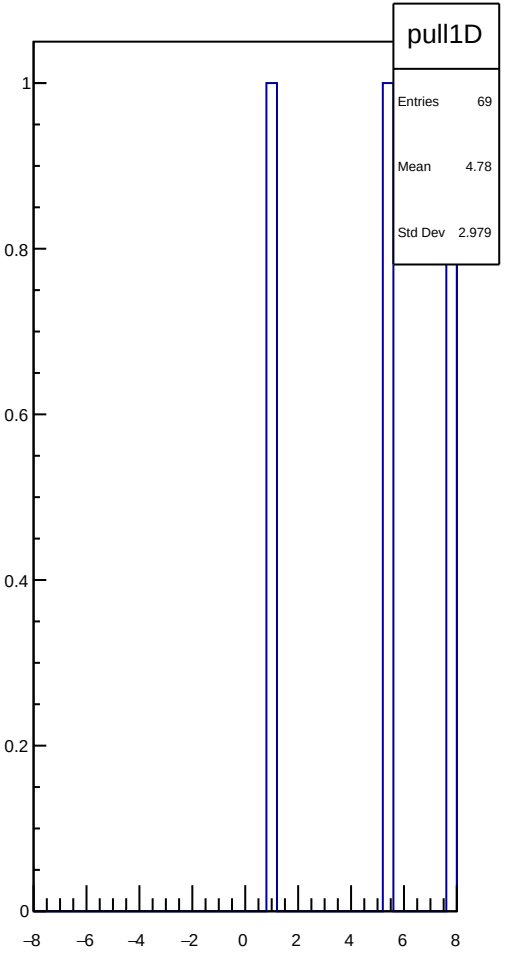

yield_bpm0i02Y_rms vs run
χ² / ndf 2.343e+04 / 68
p0 0.01339 ± 1.158e−05
0.022
0.02
0.018
0.016
0.014
0.012

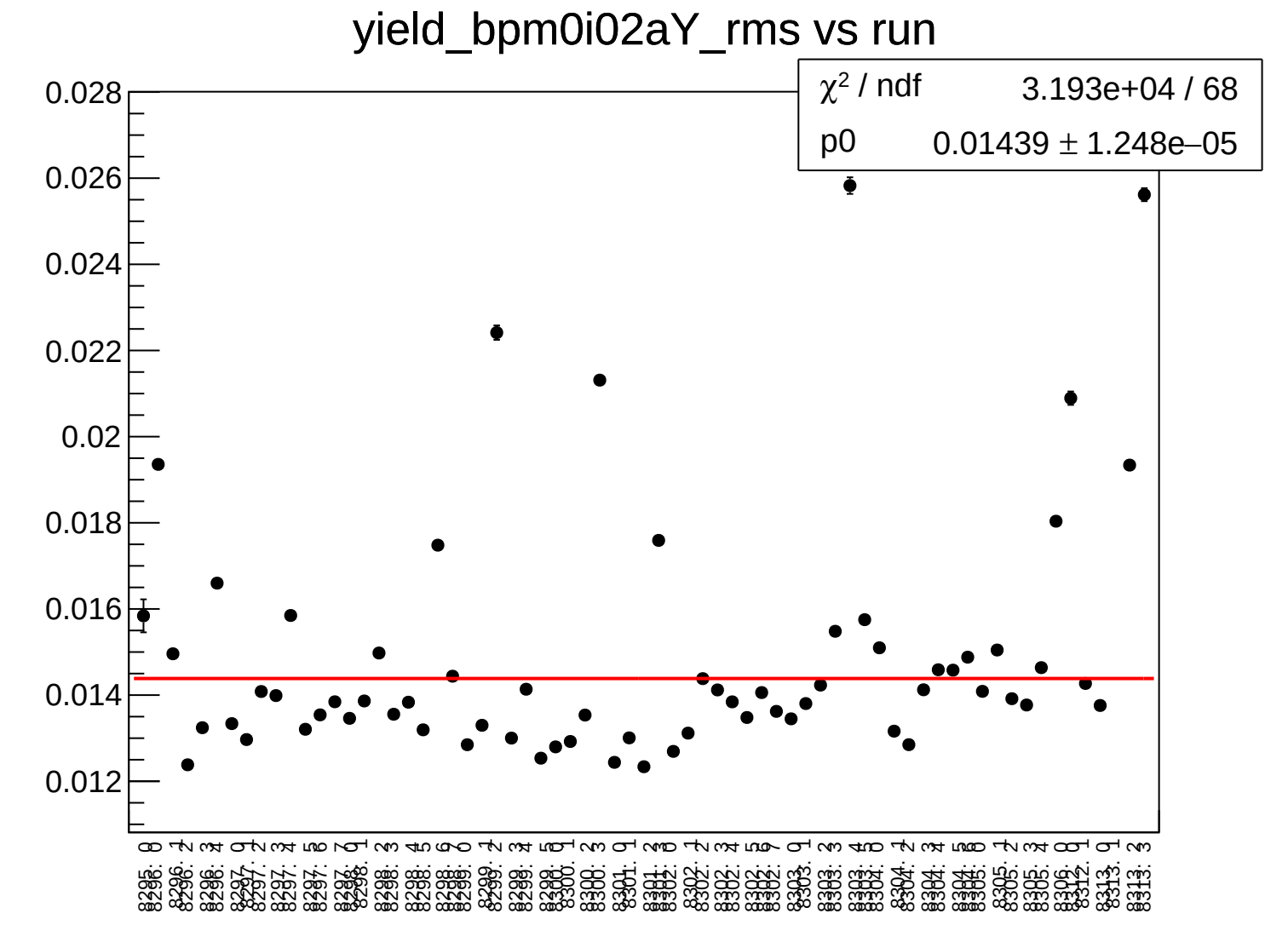

yield_bpm0i02aX_mean vs run
χ² / ndf 2.897e+06 / 68
p0 0.8697 ± 1.635e−05
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 69
Mean −378.7
Std Dev 414.4
400
200
0
−200
−400
−600

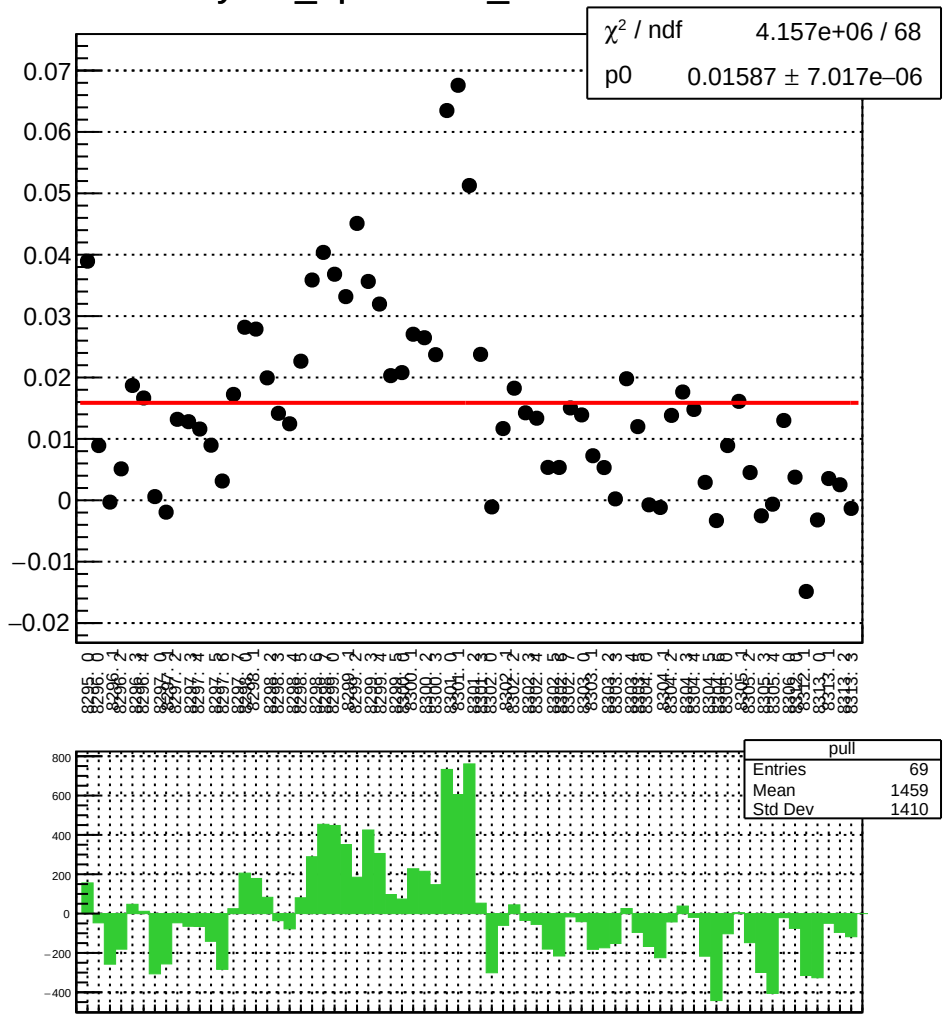

pull1D
Entries 69
Mean 4.953
Std Dev 0.8683
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

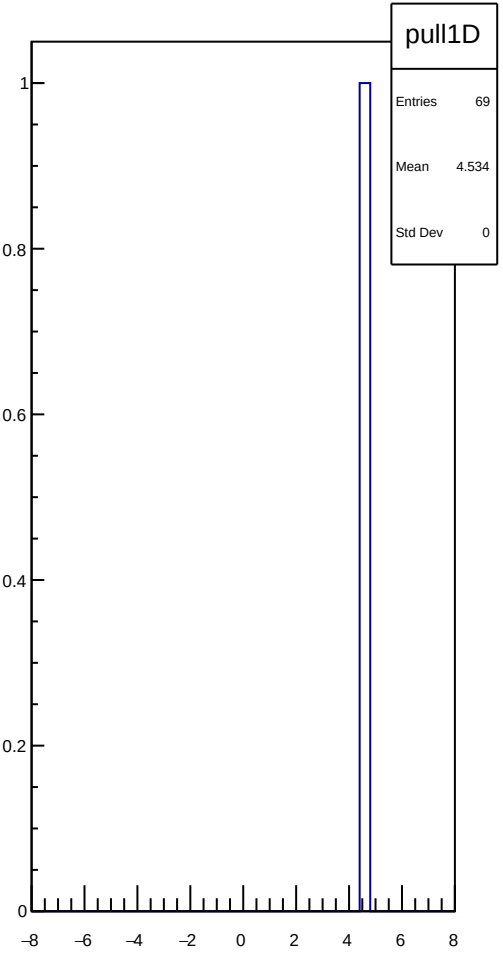

yield_bpm0i02aX_rms vs run
χ² / ndf 4.787e+04 / 68
p0 0.01324 ± 1.156e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

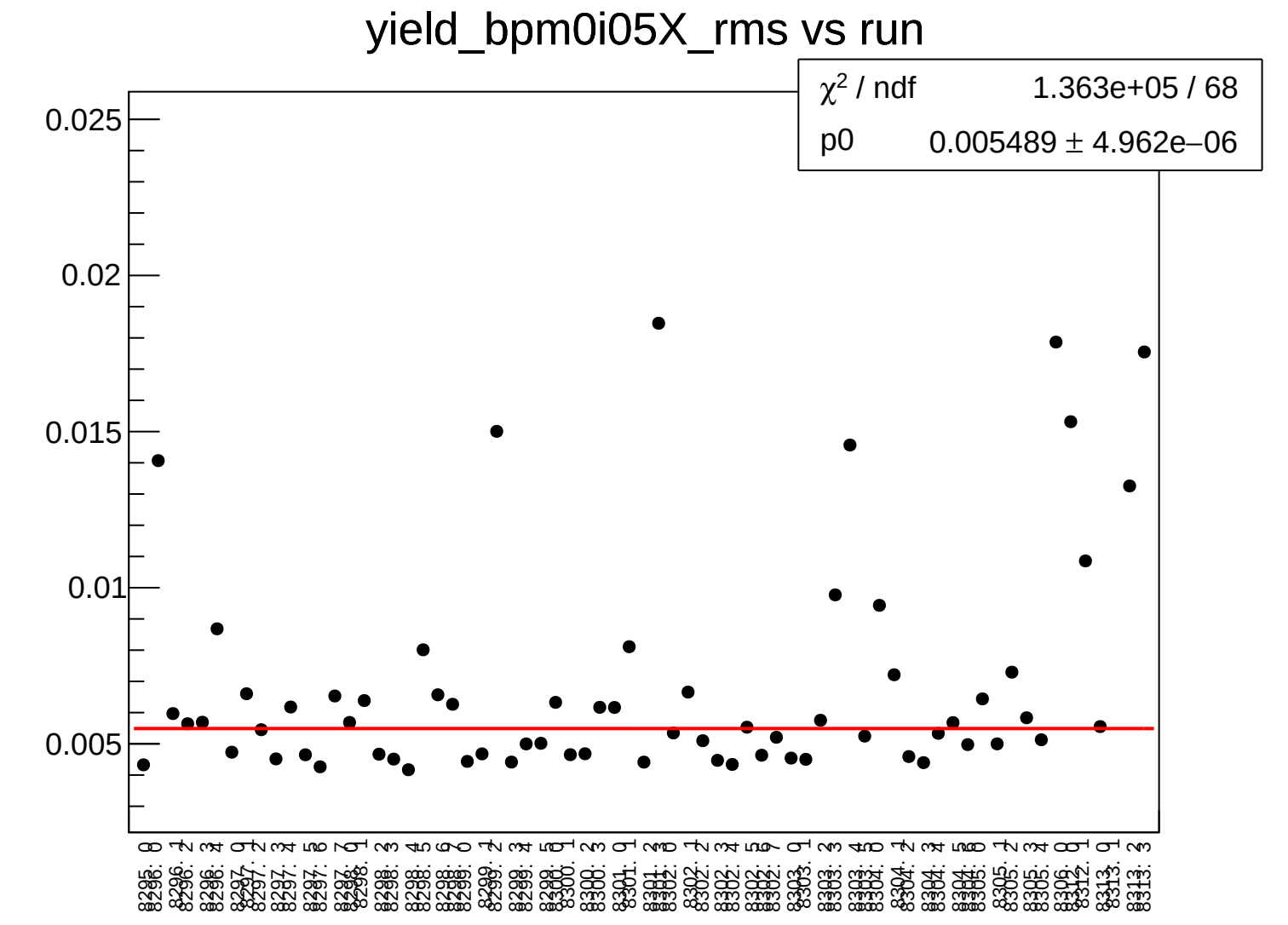

yield_bpm0i02aY_mean vs run
χ² / ndf 2.845e+06 / 68
p0 −0.8857 ± 1.765e−05
pull
Entries 69
Mean 73.55
Std Dev 82.2

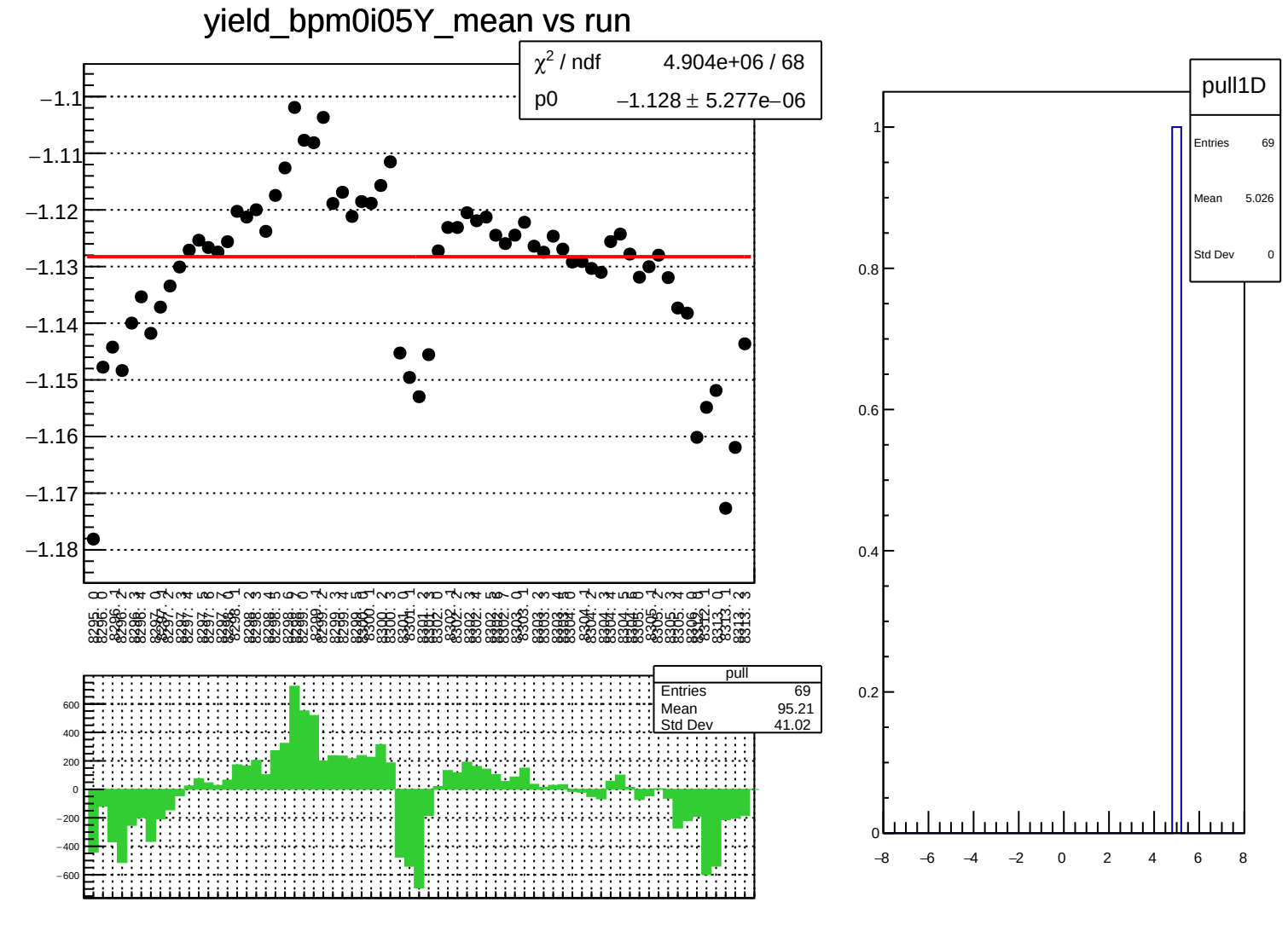

pull1D
Entries 69
Mean 4.78
Std Dev 2.979

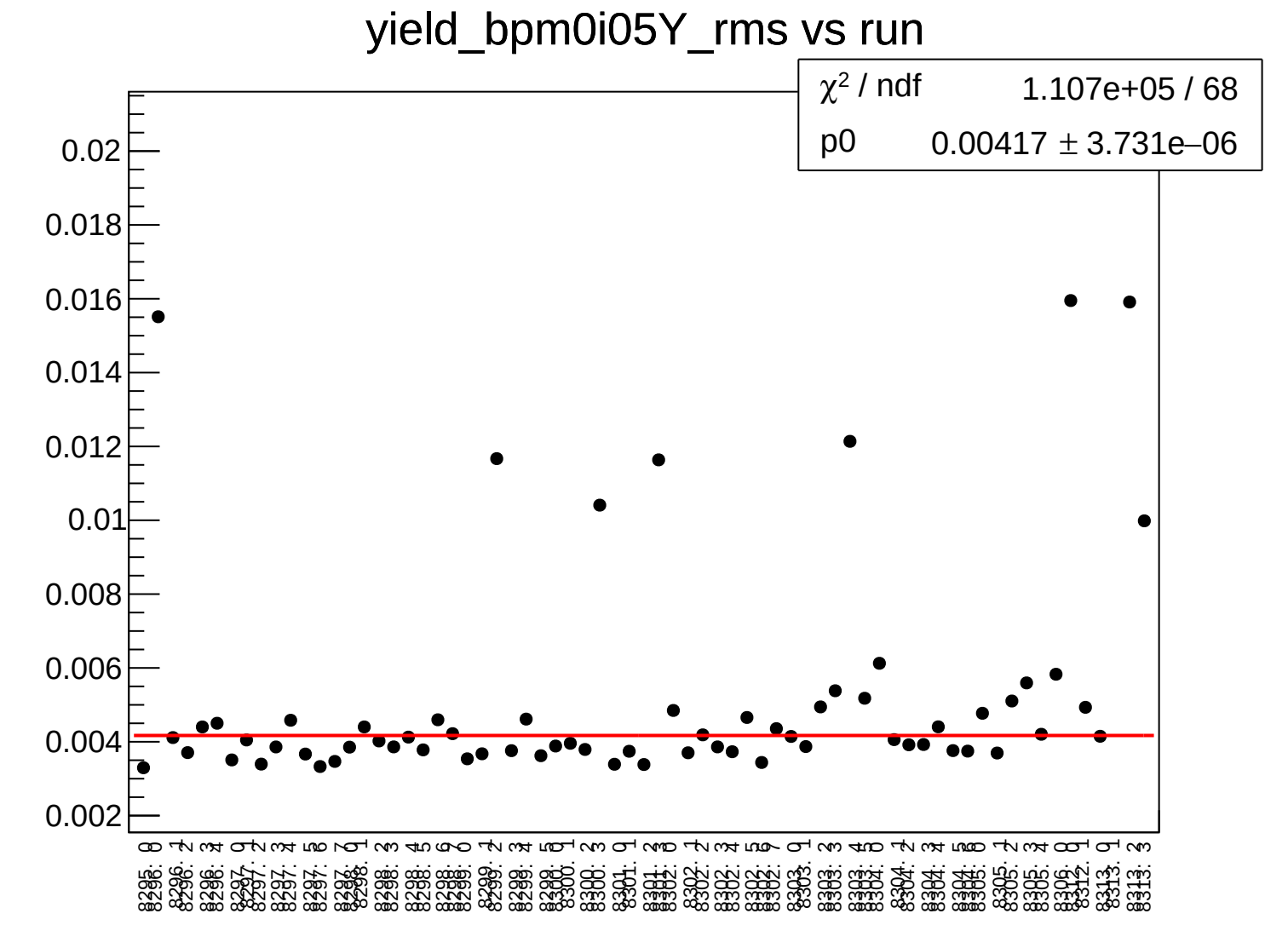

yield_bpm0i02aY_rms vs run
χ² / ndf 3.193e+04 / 68
p0 0.01439 ± 1.248e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

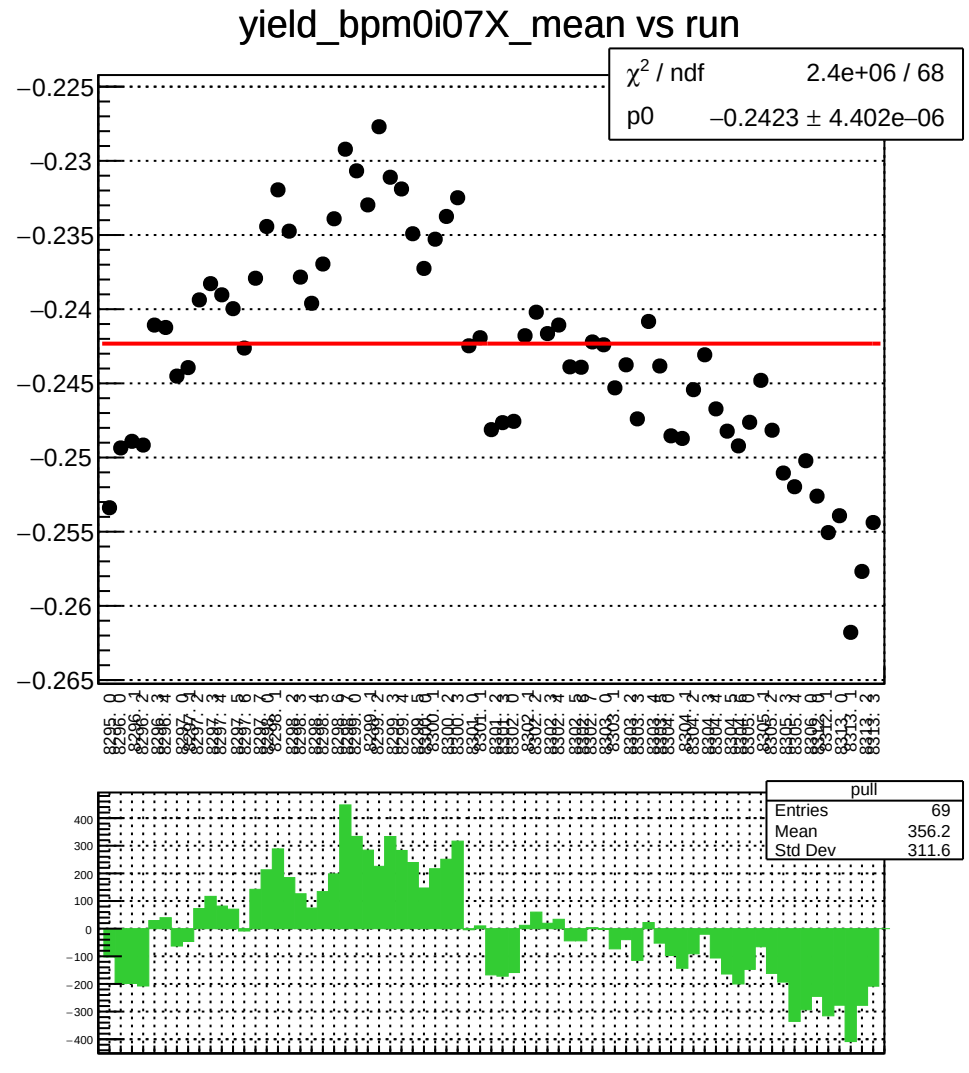

yield_bpm0i05X_mean vs run
χ² / ndf 4.157e+06 / 68
p0 0.01587 ± 7.017e−06
pull
Entries 69
Mean 1459
Std Dev 1410

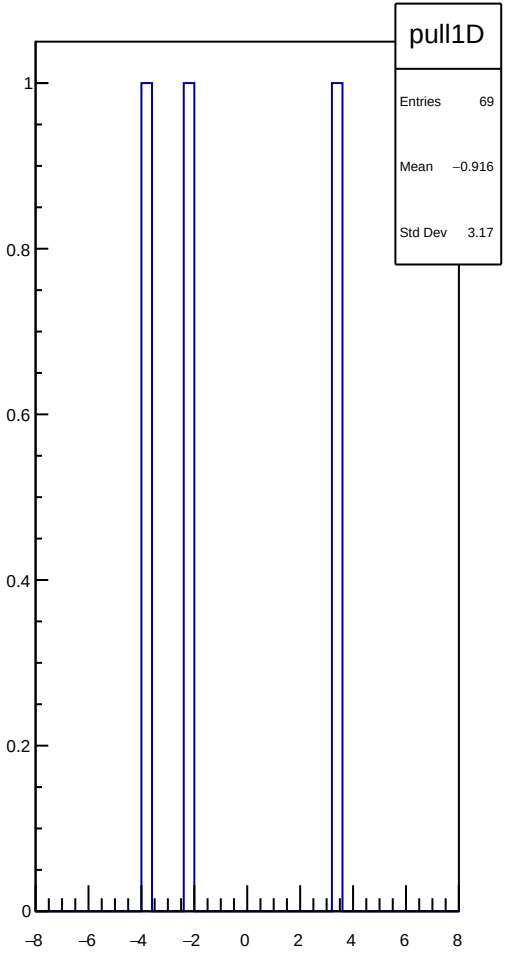

pull1D
Entries 69
Mean 4.534
Std Dev 0

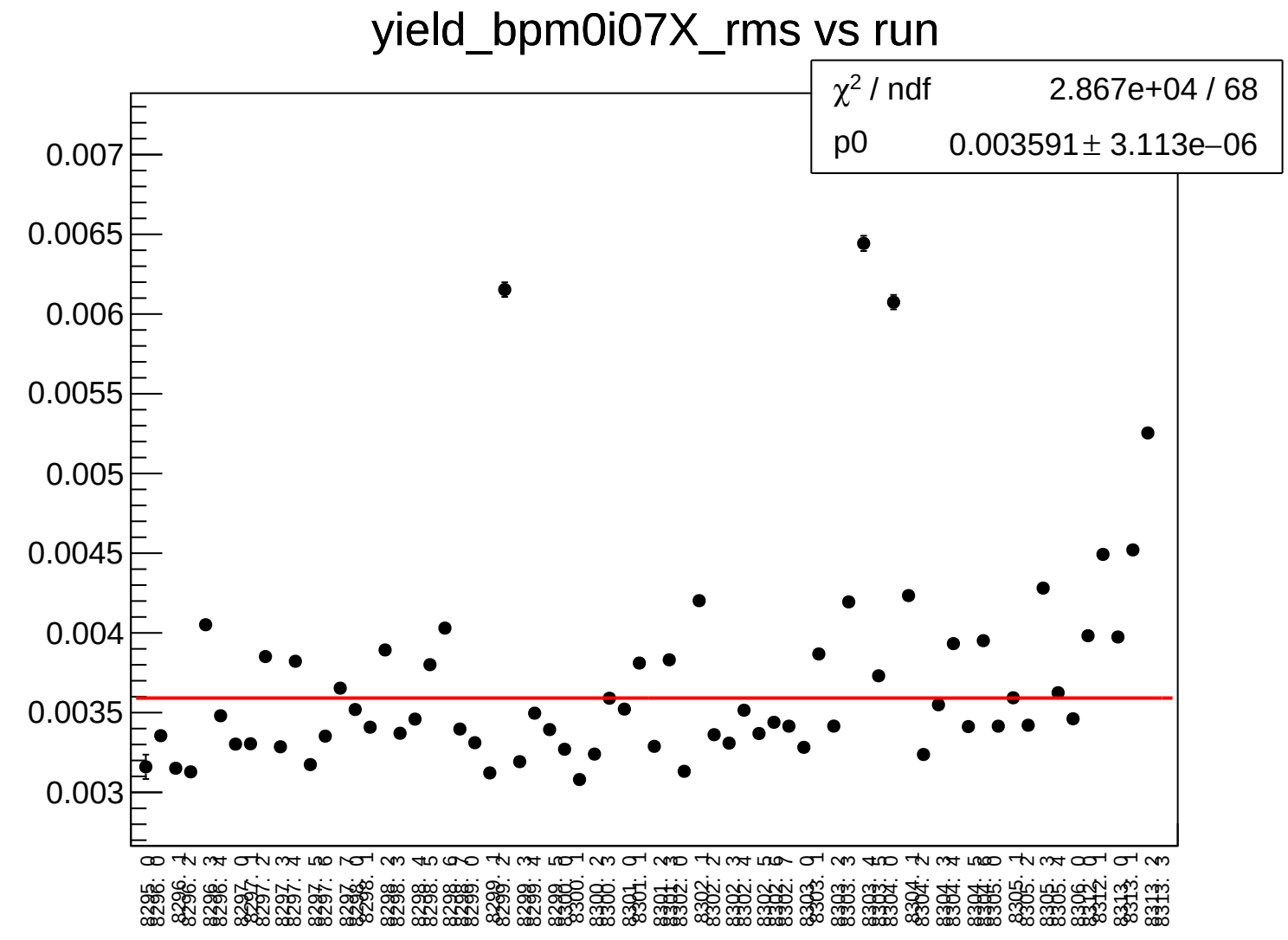

yield_bpm0i05X_rms vs run
χ² / ndf 1.363e+05 / 68
p0 0.005489 ± 4.962e−06
0.025
0.02
0.015
0.01
0.005

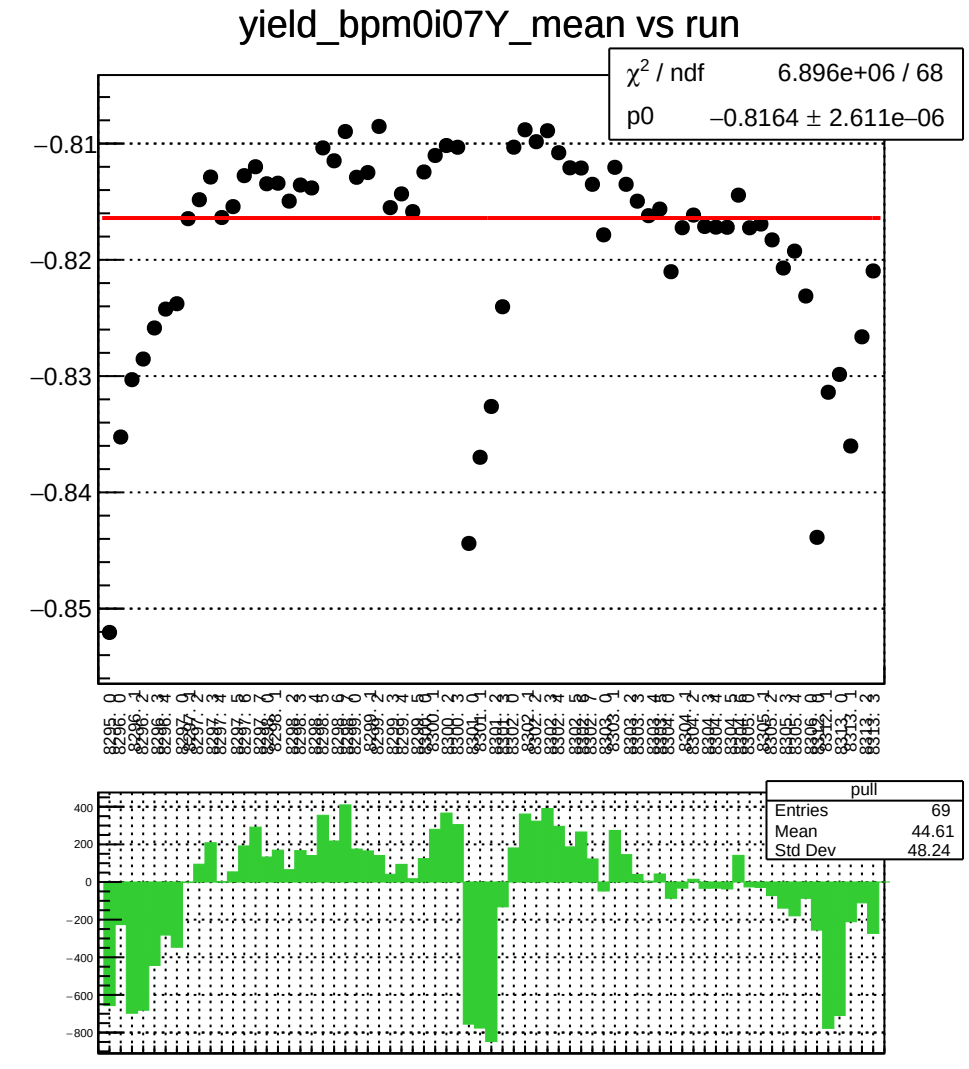

yield_bpm0i05Y_mean vs run
χ² / ndf 4.904e+06 / 68
p0 −1.128 ± 5.277e−06
pull
Entries 69
Mean 95.21
Std Dev 41.02
pull1D
Entries 69
Mean 5.026
Std Dev 0

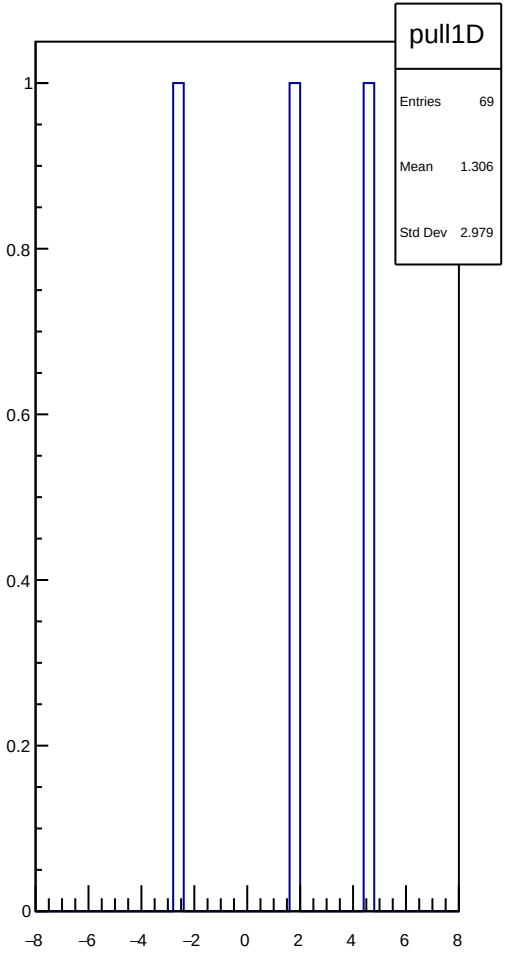

yield_bpm0i05Y_rms vs run
χ² / ndf 1.107e+05 / 68
p0 0.00417 ± 3.731e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

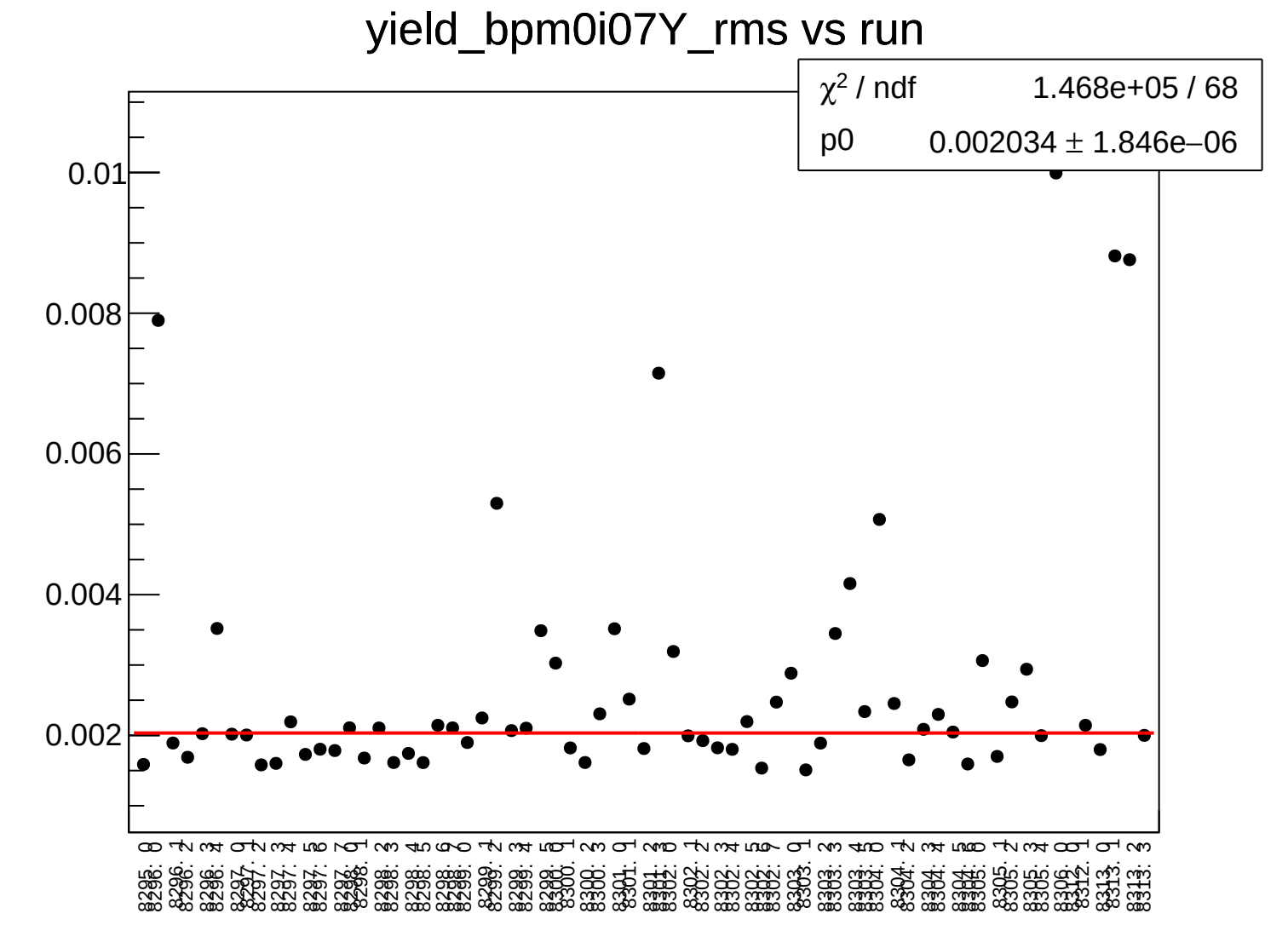

yield_bpm0i07X_mean vs run
χ² / ndf 2.4e+06 / 68
p0 −0.2423 ± 4.402e−06
−0.225
−0.23
−0.235
−0.24
−0.245
−0.25
−0.255
−0.26
−0.265
pull
Entries 69
Mean 356.2
Std Dev 311.6
400
300
200
100
0
−100
−200
−300
−400

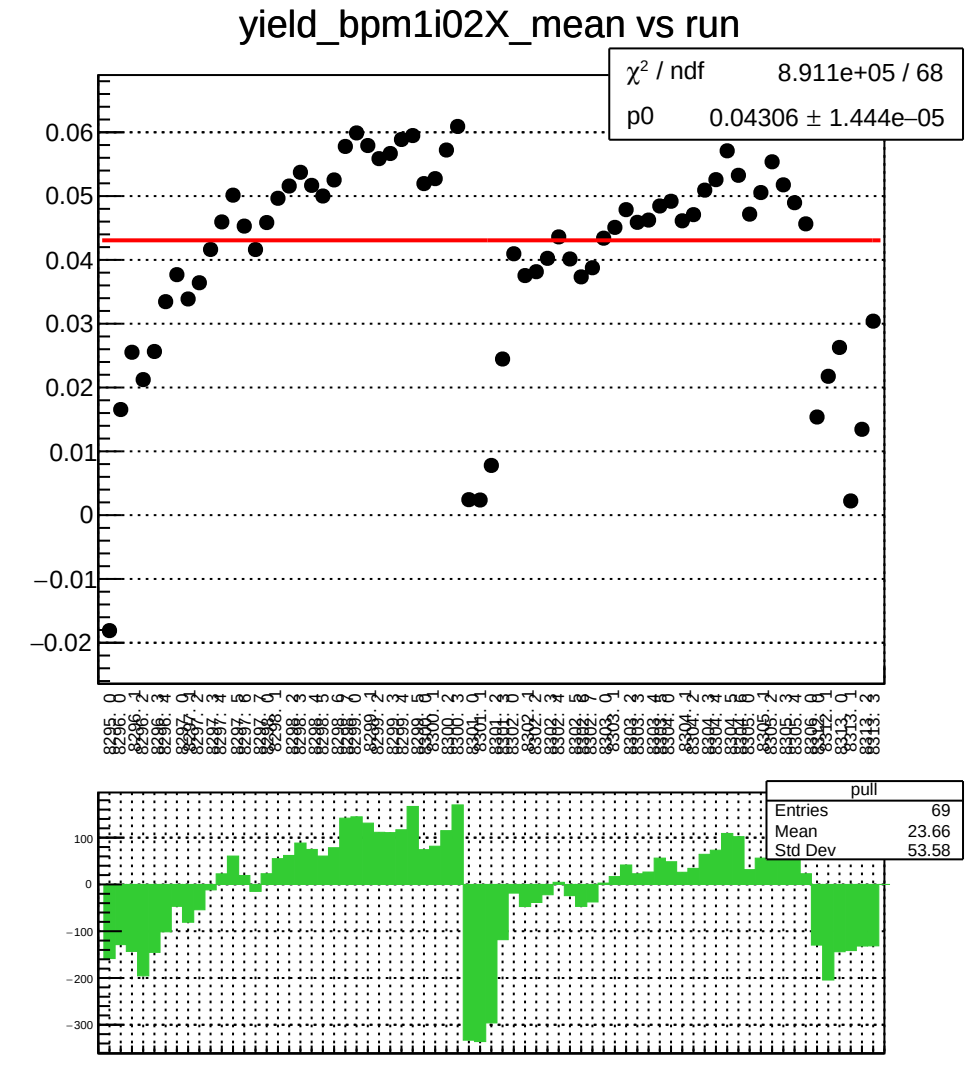

pull1D
Entries 69
Mean −0.916
Std Dev 3.17
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

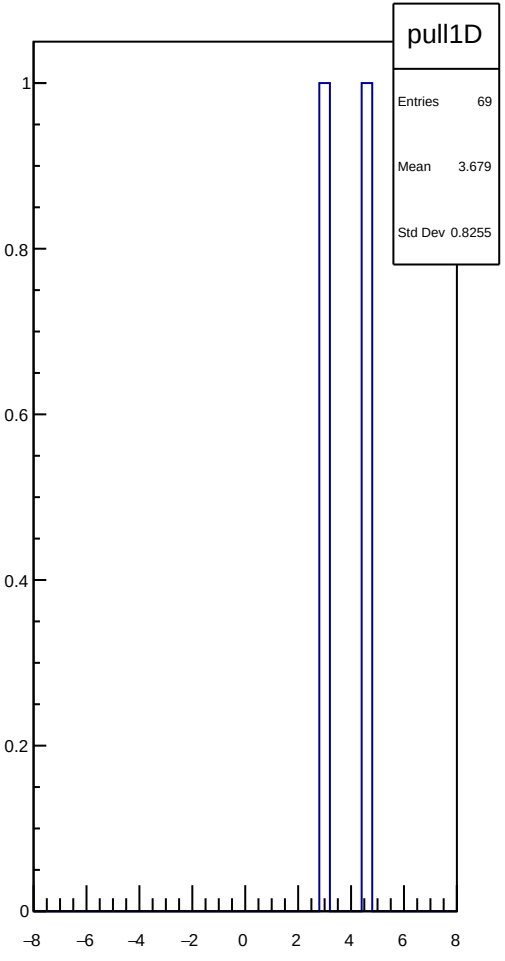

yield_bpm0i07X_rms vs run
χ² / ndf 2.867e+04 / 68
p0 0.003591 ± 3.113e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

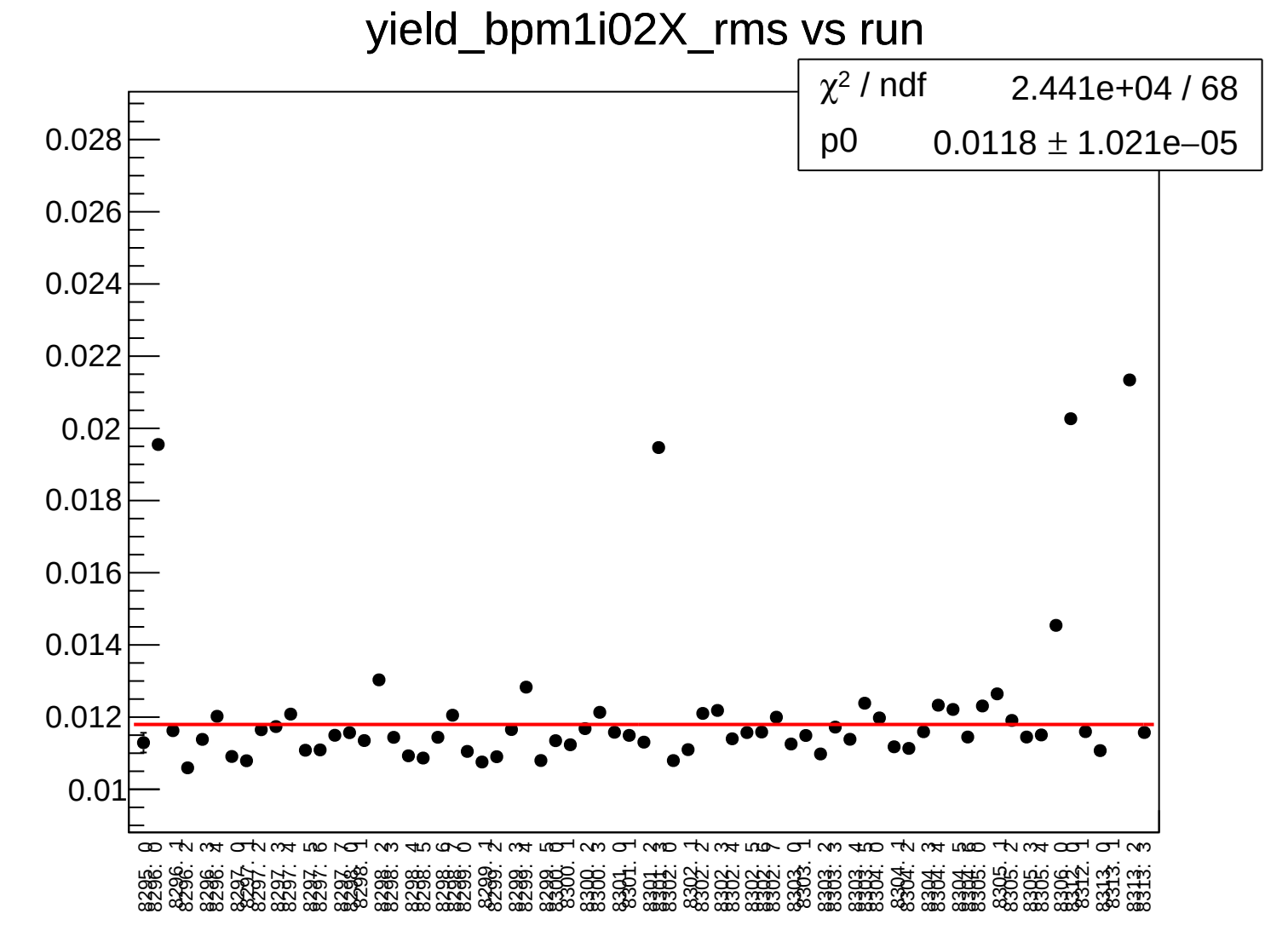

yield_bpm0i07Y_mean vs run
χ² / ndf 6.896e+06 / 68
p0 −0.8164 ± 2.611e−06
−0.81
−0.82
−0.83
−0.84
−0.85
pull
Entries 69
Mean 44.61
Std Dev 48.24
400
200
0
−200
−400
−600
−800

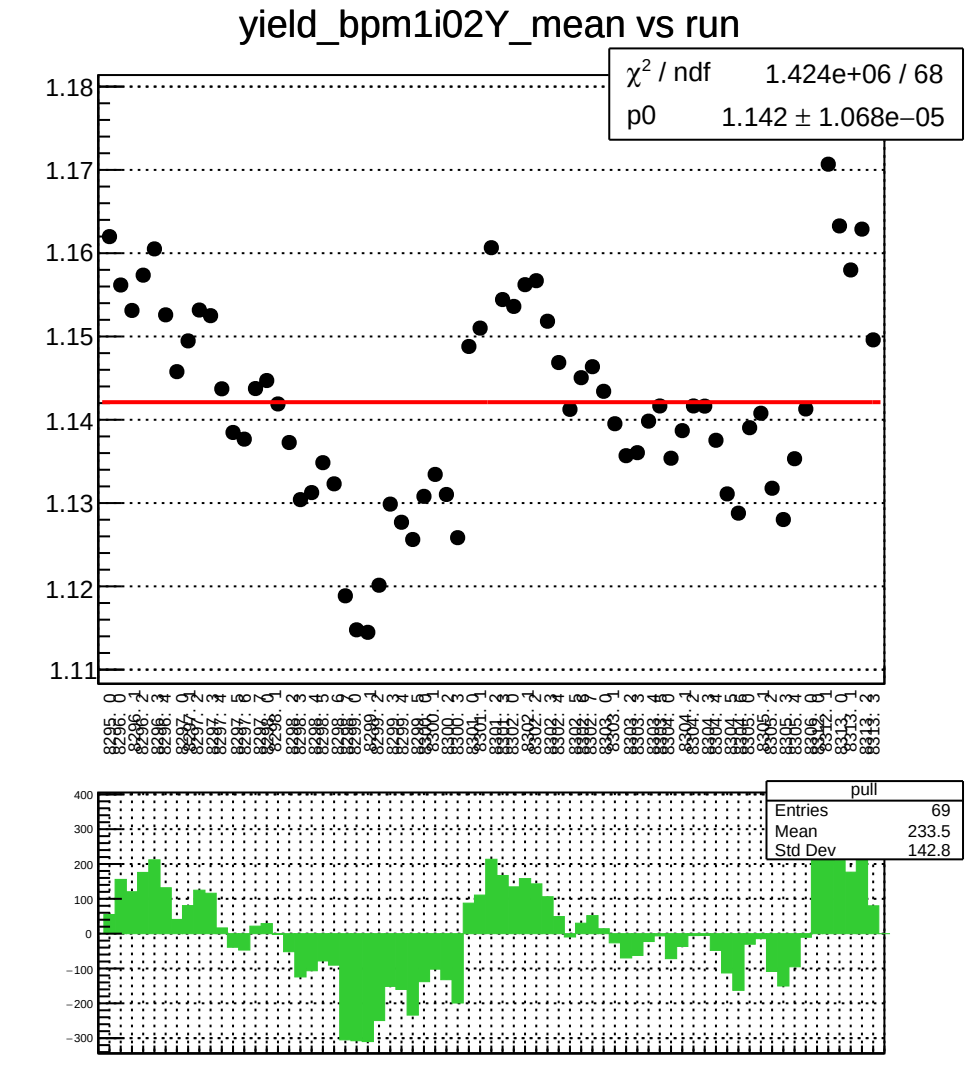

pull1D
Entries 69
Mean 1.306
Std Dev 2.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

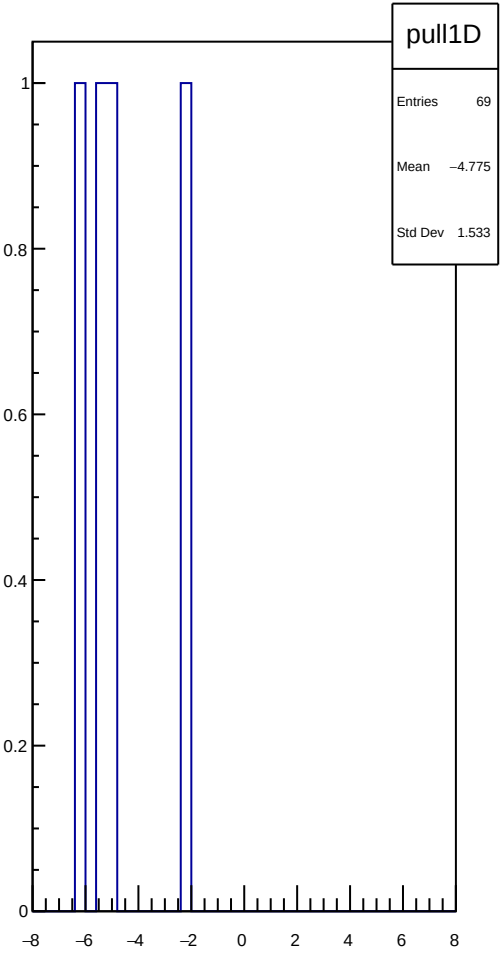

yield_bpm0i07Y_rms vs run
χ² / ndf 1.468e+05 / 68
p0 0.002034 ± 1.846e−06
0.01
0.008
0.006
0.004
0.002

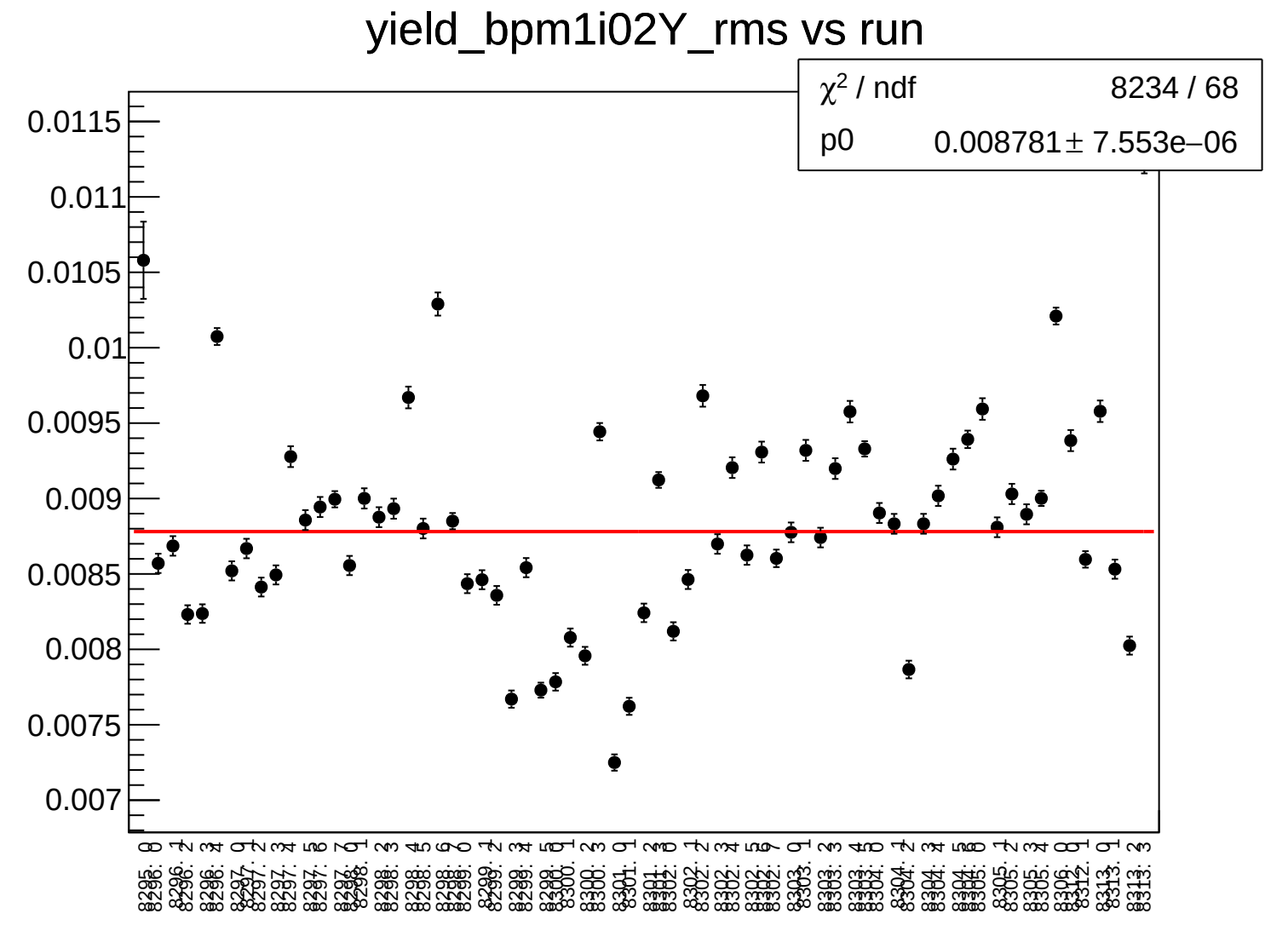

yield_bpm1i02X_mean vs run
χ² / ndf 8.911e+05 / 68
p0 0.04306 ± 1.444e−05
pull
Entries 69
Mean 23.66
Std Dev 53.58

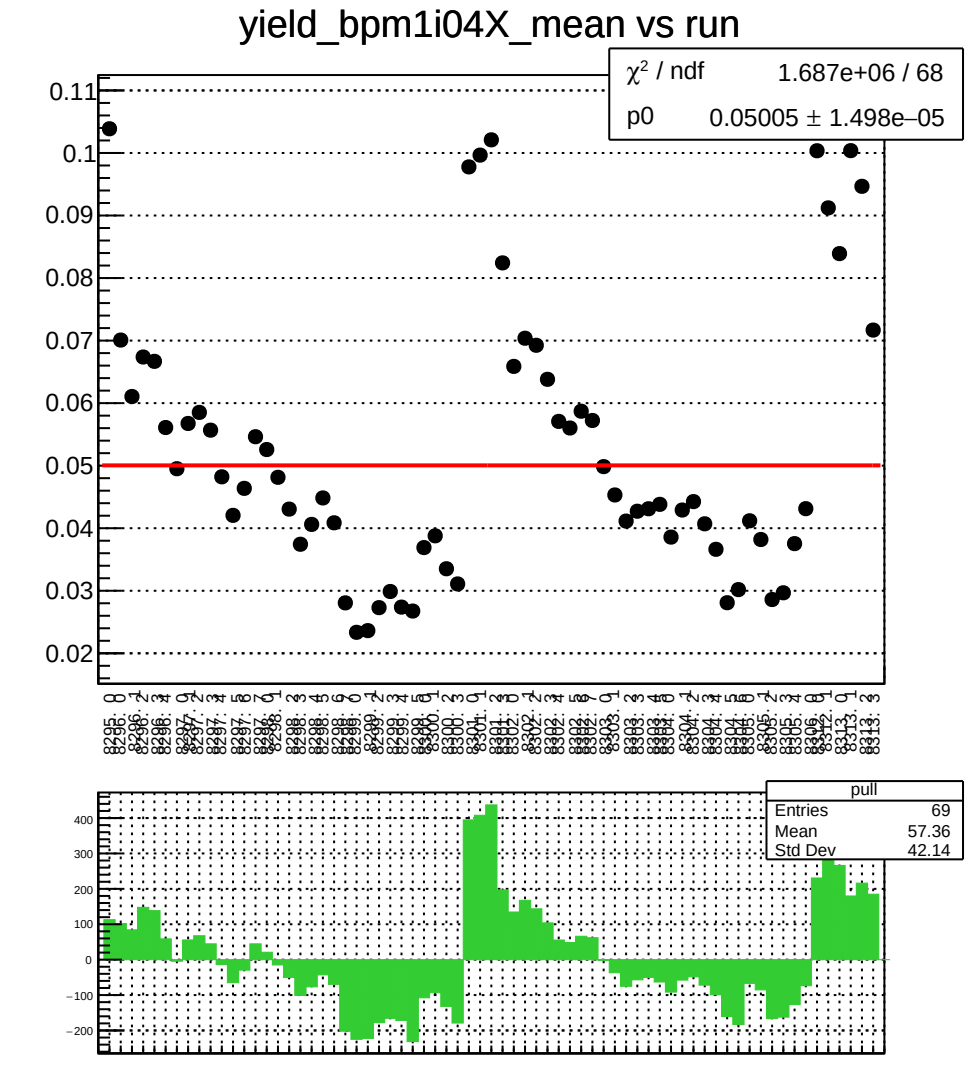

pull1D
Entries 69
Mean 3.679
Std Dev 0.8255

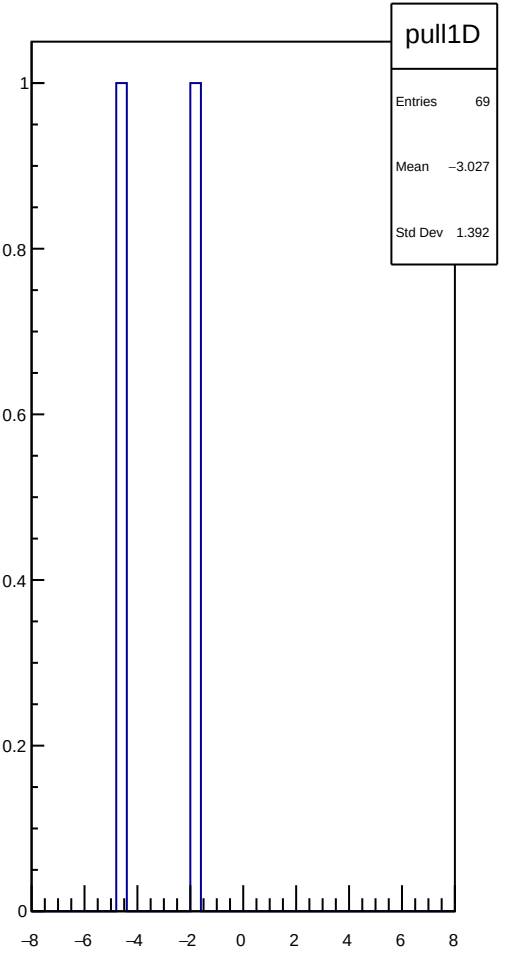

yield_bpm1i02X_rms vs run
χ² / ndf 2.441e+04 / 68
p0 0.0118 ± 1.021e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

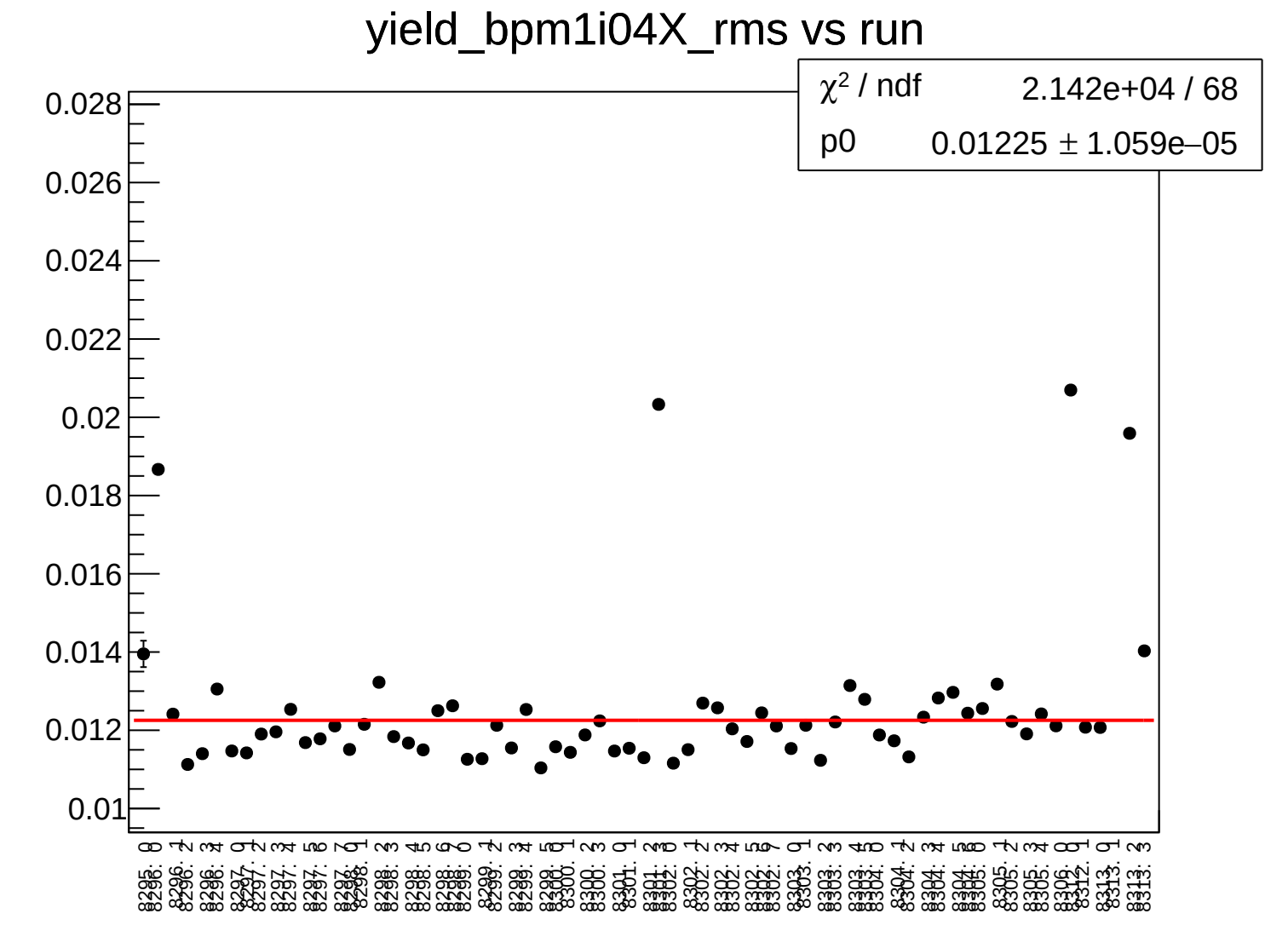

yield_bpm1i02Y_mean vs run
χ² / ndf 1.424e+06 / 68
p0 1.142 ± 1.068e−05
pull
Entries 69
Mean 233.5
Std Dev 142.8

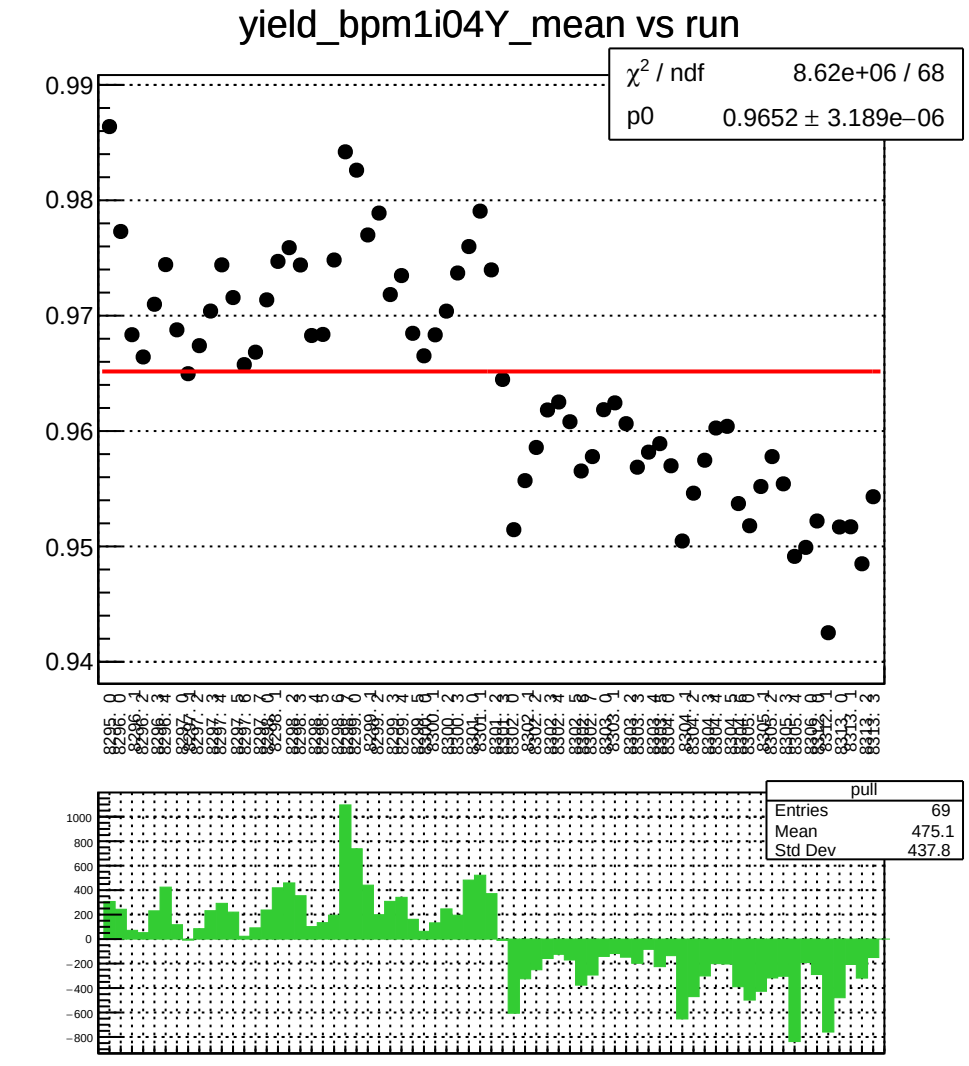

pull1D
Entries 69
Mean −4.775
Std Dev 1.533

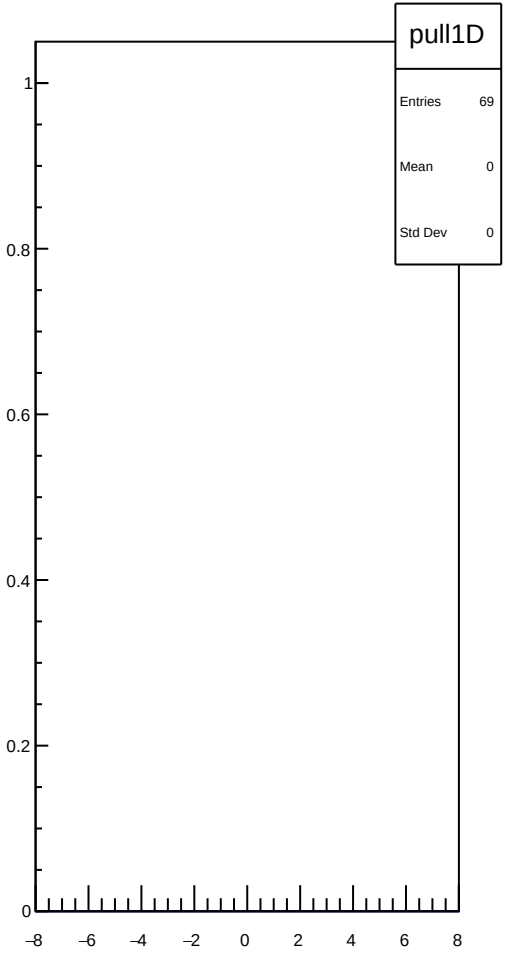

yield_bpm1i02Y_rms vs run
χ² / ndf 8234 / 68
p0 0.008781 ± 7.553e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

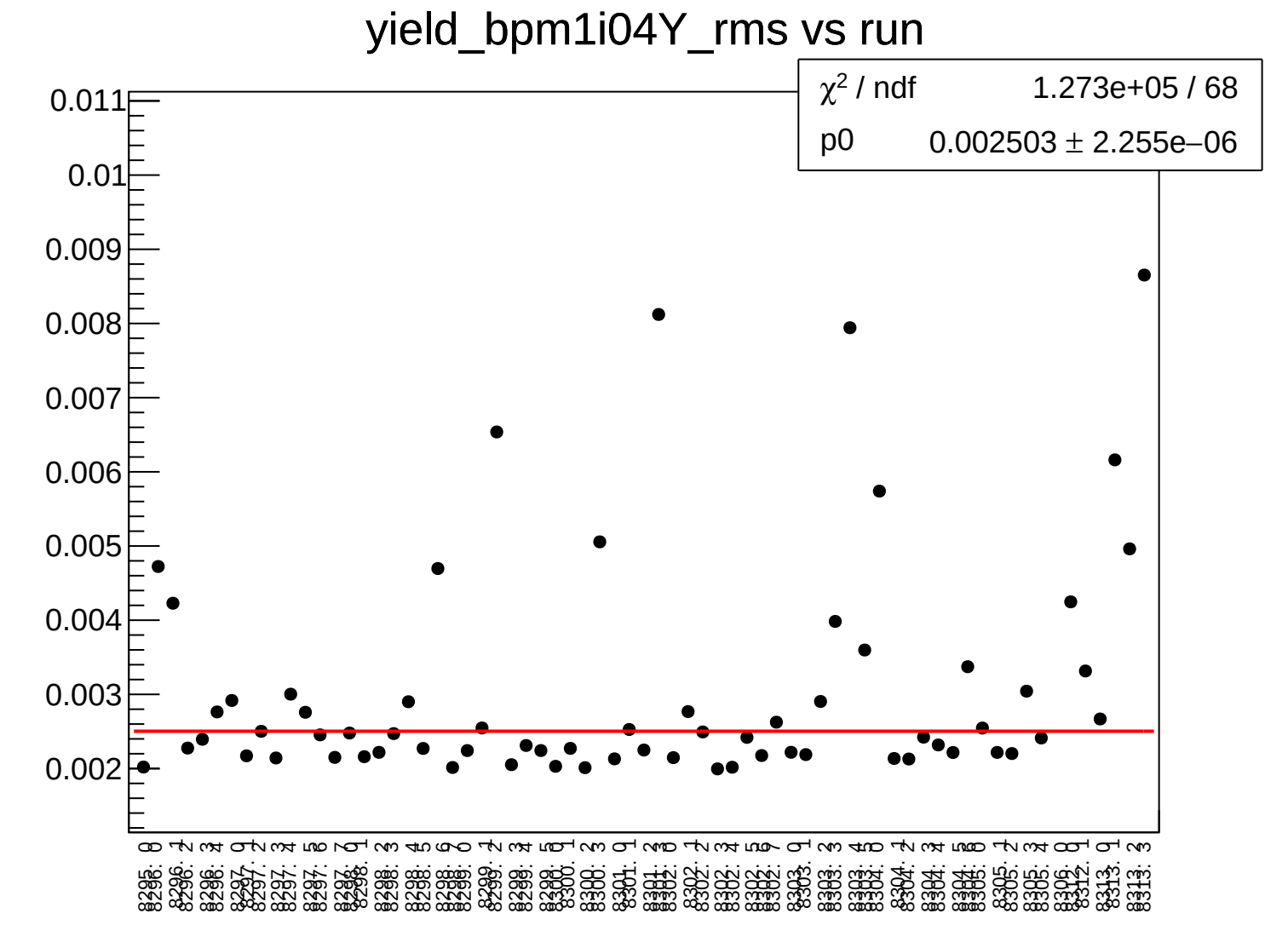

yield_bpm1i04X_mean vs run
χ² / ndf 1.687e+06 / 68
p0 0.05005 ± 1.498e−05
pull
Entries 69
Mean 57.36
Std Dev 42.14

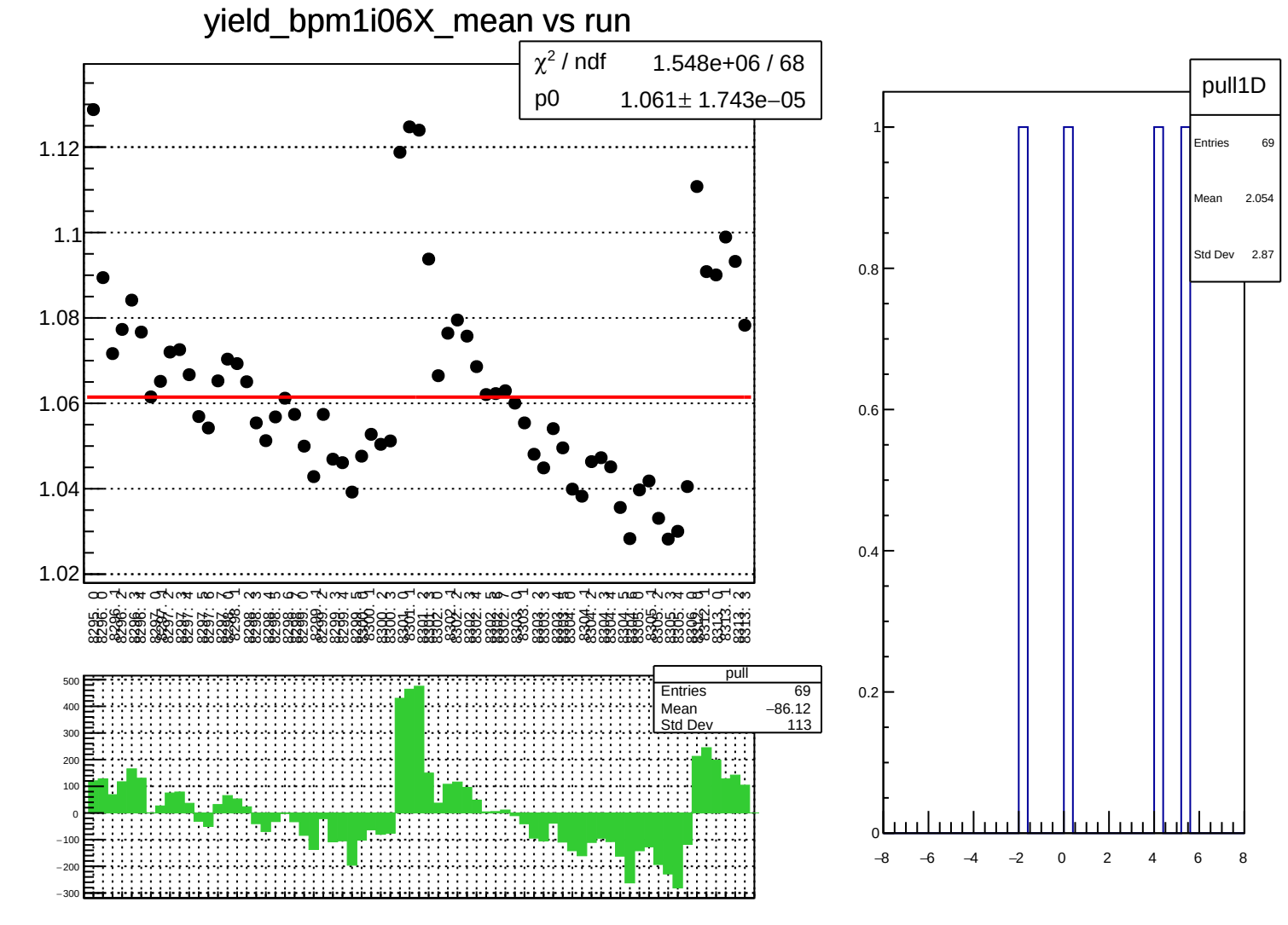

pull1D
Entries 69
Mean −3.027
Std Dev 1.392

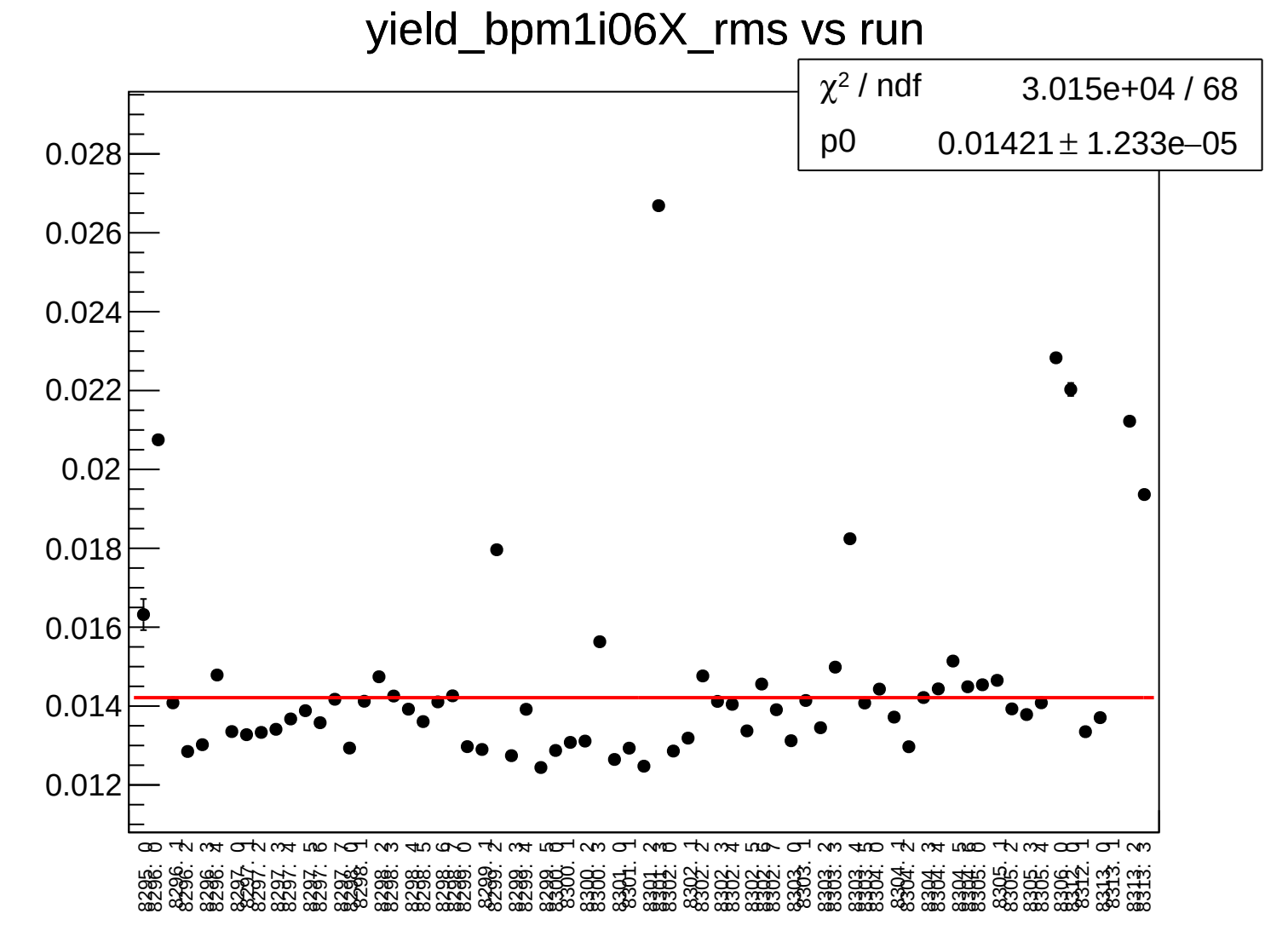

yield_bpm1i04X_rms vs run
χ² / ndf 2.142e+04 / 68
p0 0.01225 ± 1.059e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

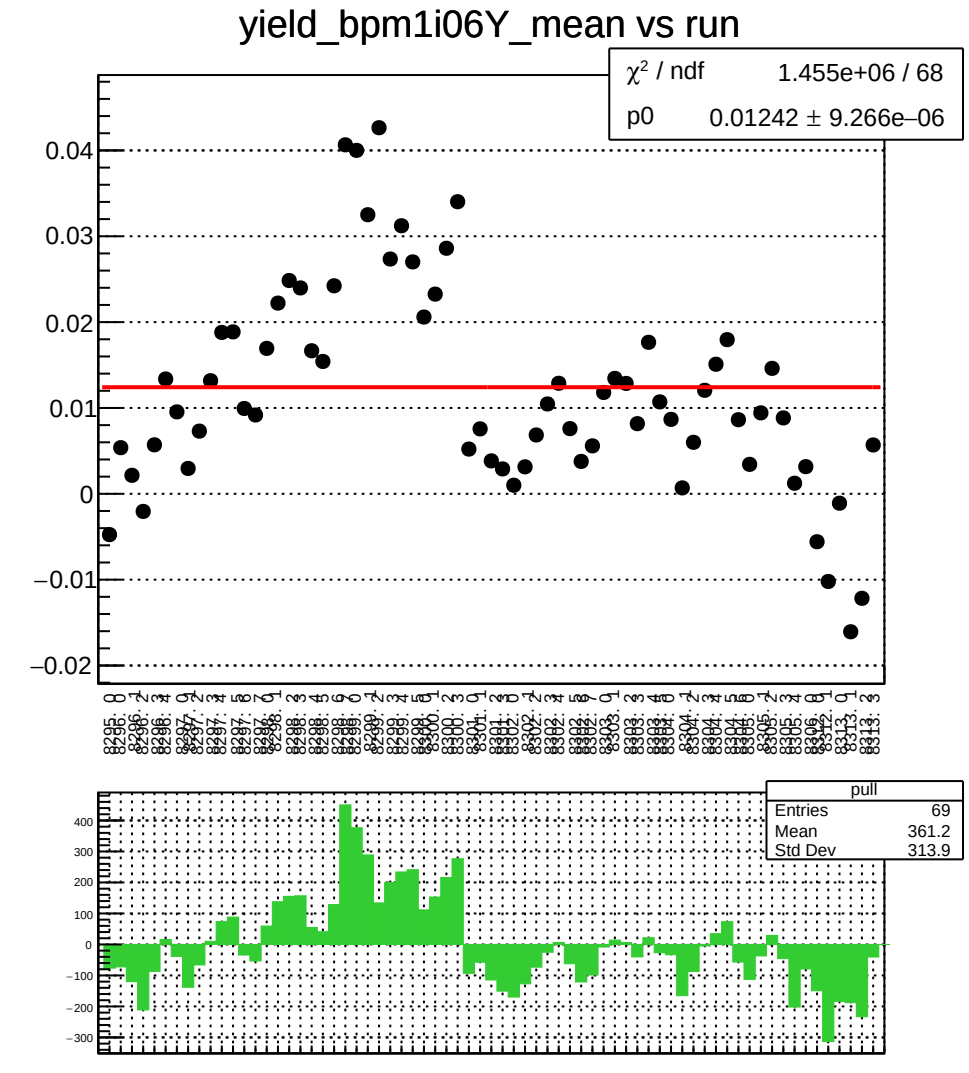

yield_bpm1i04Y_mean vs run
χ² / ndf 8.62e+06 / 68
p0 0.9652 ± 3.189e−06
0.99
0.98
0.97
0.96
0.95
0.94
pull
Entries 69
Mean 475.1
Std Dev 437.8
1000
800
600
400
200
0
−200
−400
−600
−800

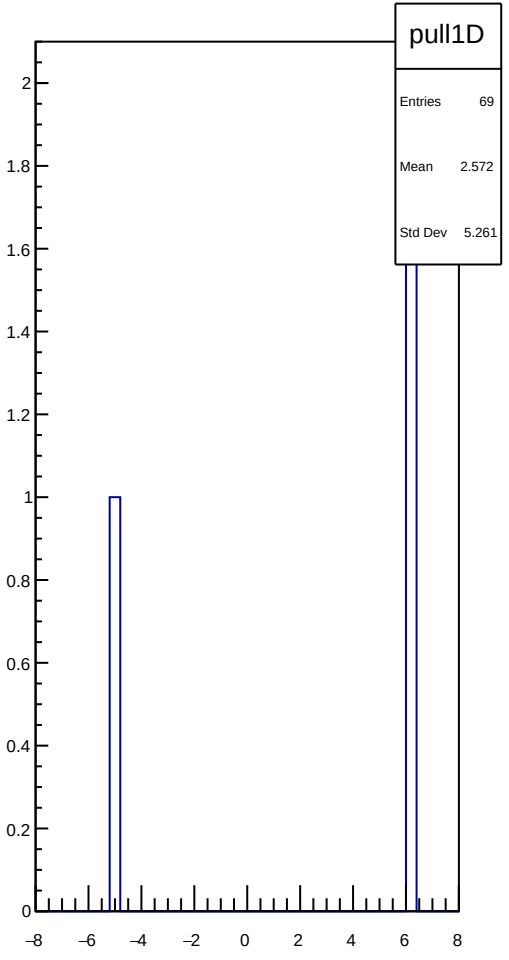

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

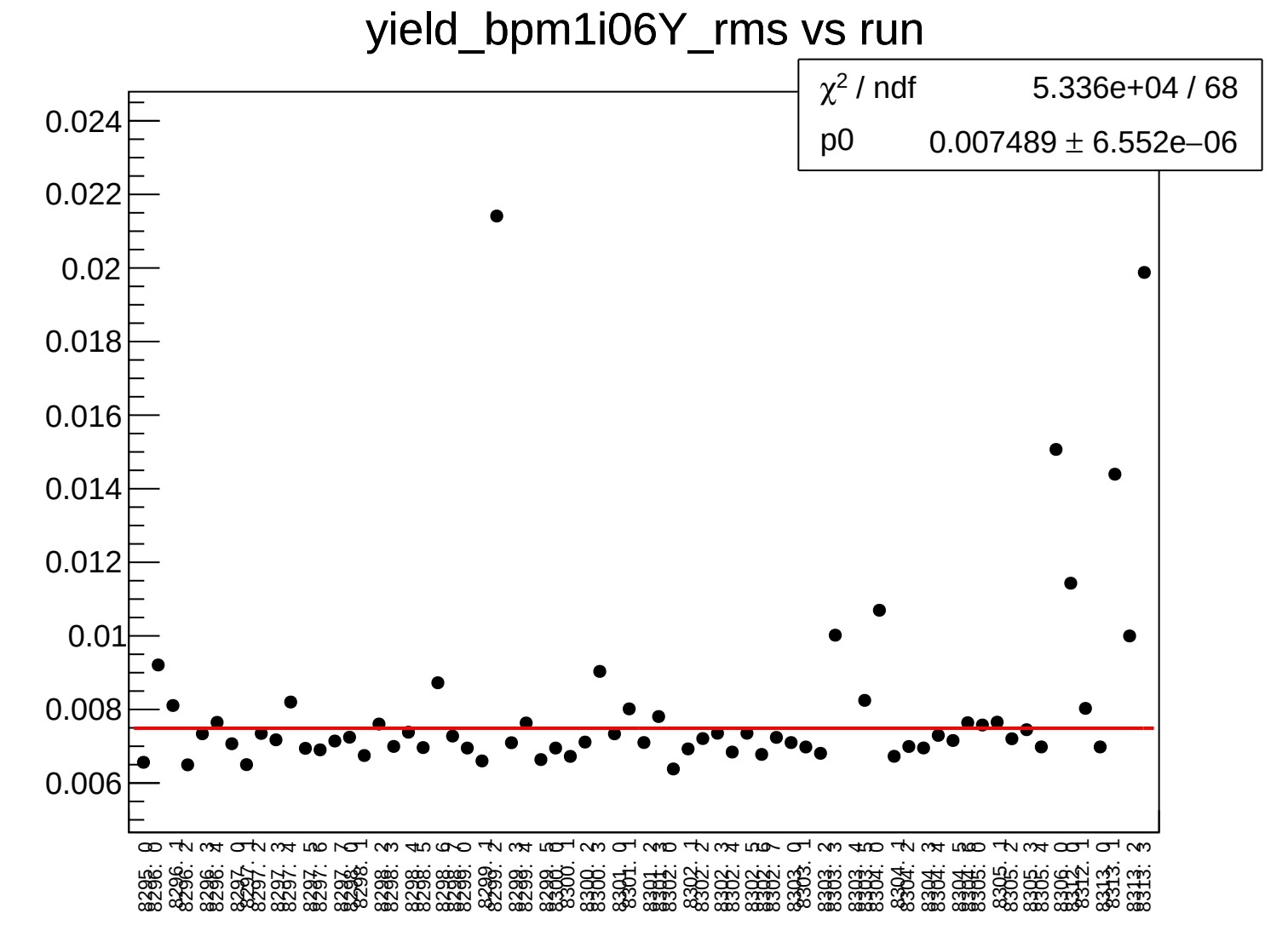

yield_bpm1i04Y_rms vs run
χ² / ndf 1.273e+05 / 68
p0 0.002503 ± 2.255e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

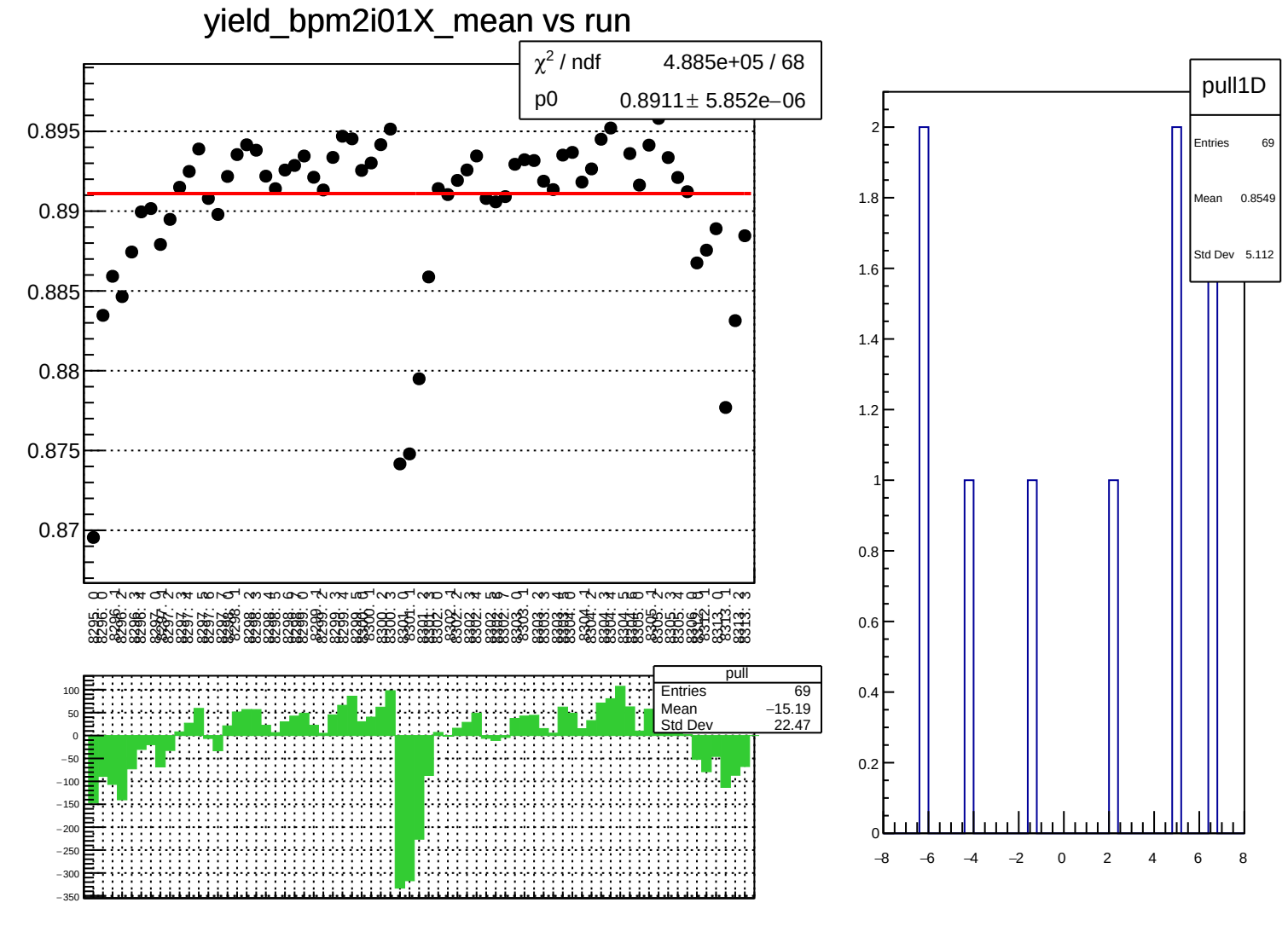

yield_bpm1i06X_mean vs run
χ² / ndf 1.548e+06 / 68
p0 1.061± 1.743e−05
1.12
1.1
1.08
1.06
1.04
1.02
pull
Entries 69
Mean −86.12
Std Dev 113
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 69
Mean 2.054
Std Dev 2.87
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

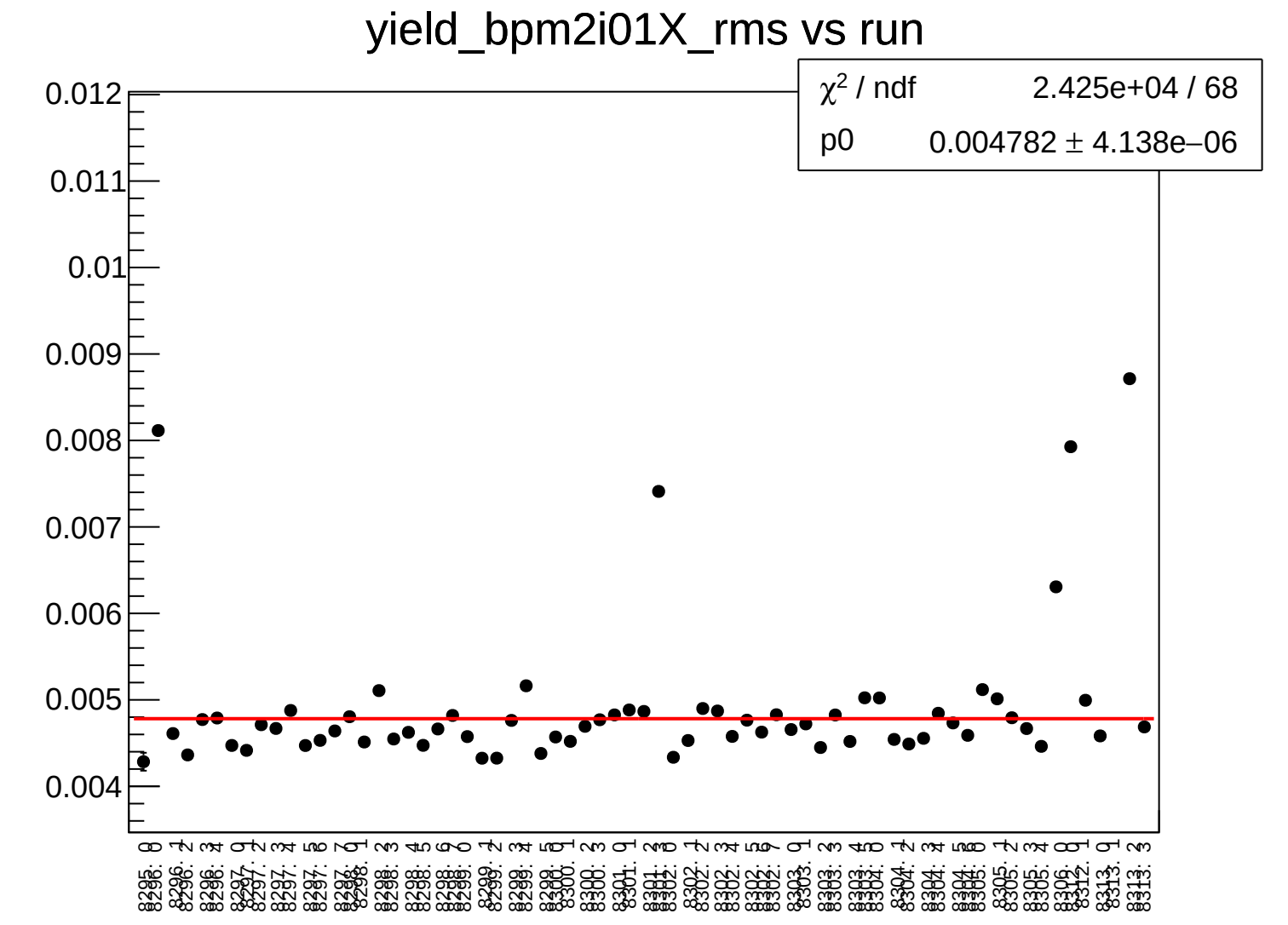

yield_bpm1i06X_rms vs run
χ² / ndf 3.015e+04 / 68
p0 0.01421 ± 1.233e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

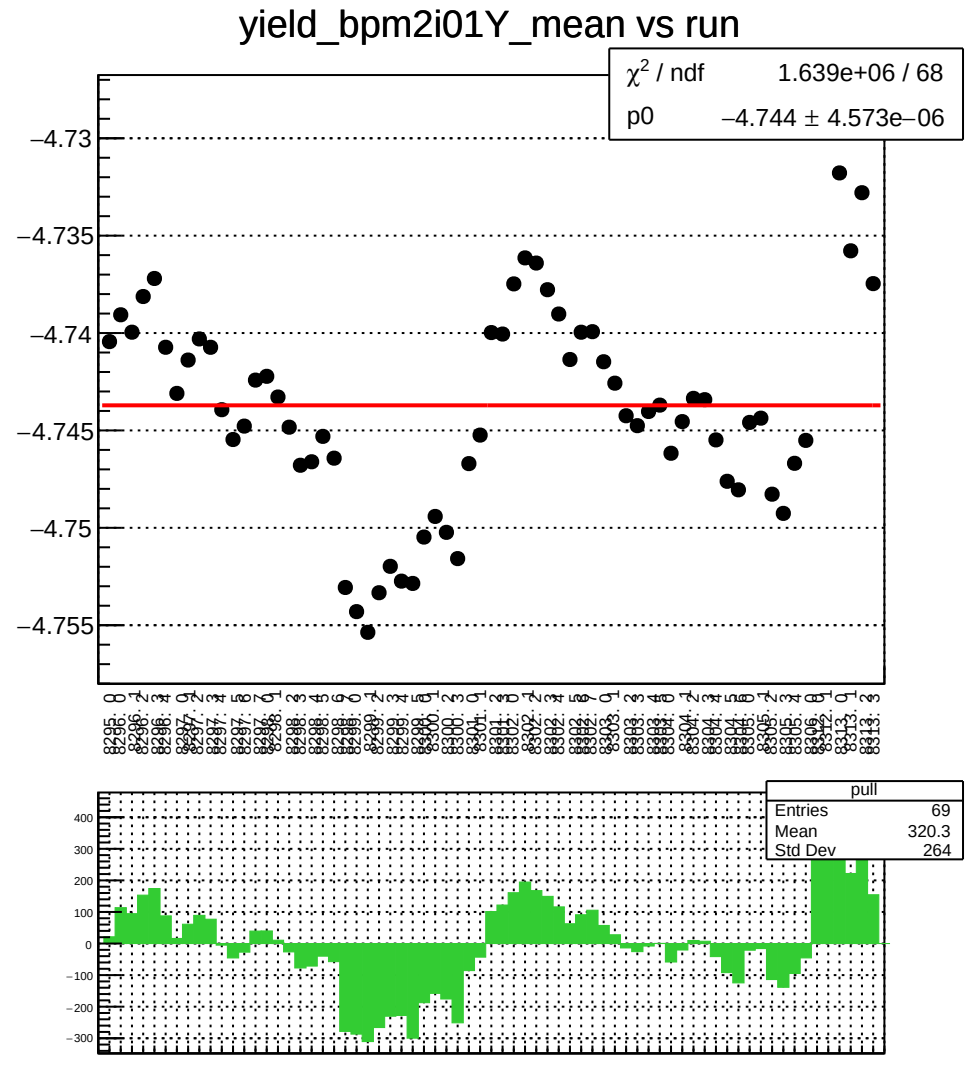

yield_bpm1i06Y_mean vs run
χ² / ndf 1.455e+06 / 68
p0 0.01242 ± 9.266e−06
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 69
Mean 361.2
Std Dev 313.9
400
300
200
100
0
−100
−200
−300

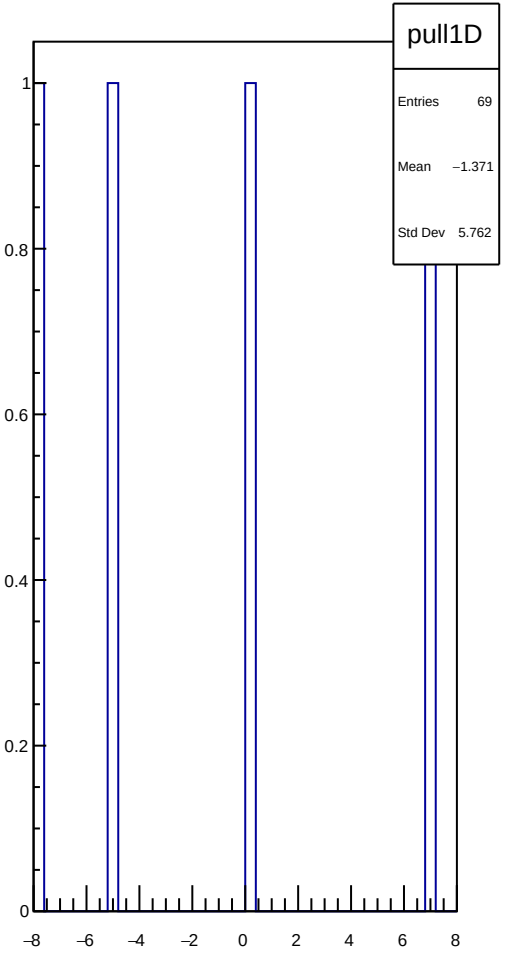

pull1D
Entries 69
Mean 2.572
Std Dev 5.261
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

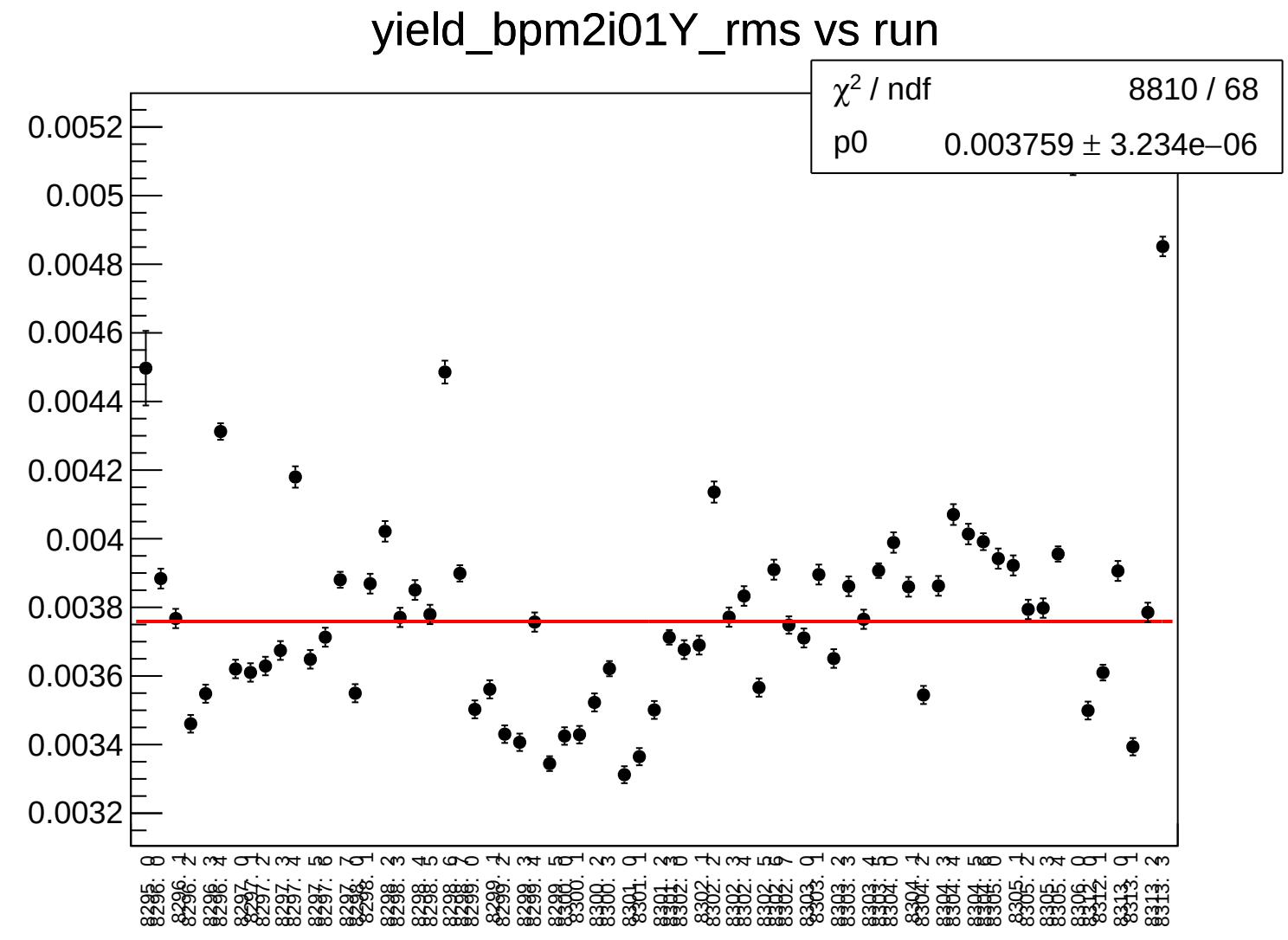

yield_bpm1i06Y_rms vs run
χ² / ndf 5.336e+04 / 68
p0 0.007489 ± 6.552e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

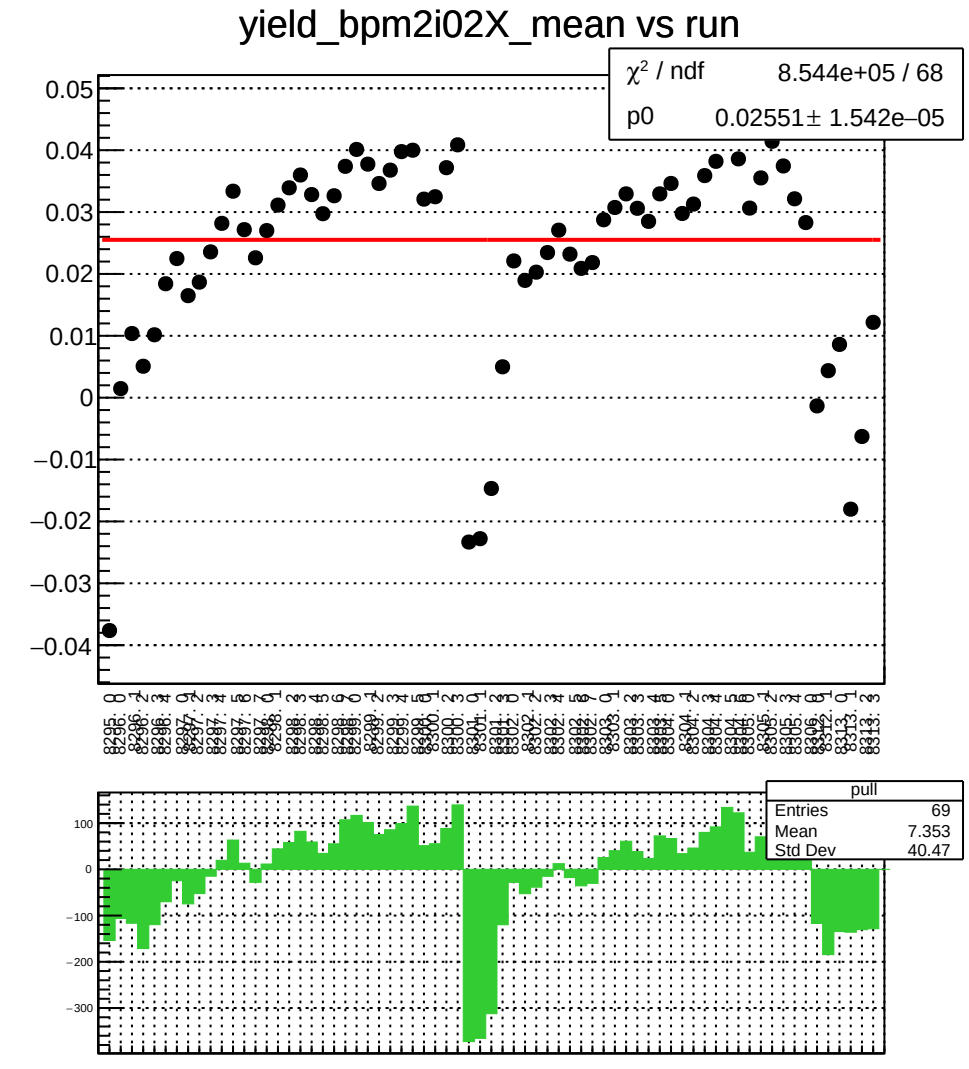

yield_bpm2i01X_mean vs run
χ² / ndf 4.885e+05 / 68
p0 0.8911 ± 5.852e−06
0.895
0.89
0.885
0.88
0.875
0.87
pull
Entries 69
Mean −15.19
Std Dev 22.47
100
50
0
−50
−100
−150
−200
−250
−300
−350
pull1D
Entries 69
Mean 0.8549
Std Dev 5.112
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

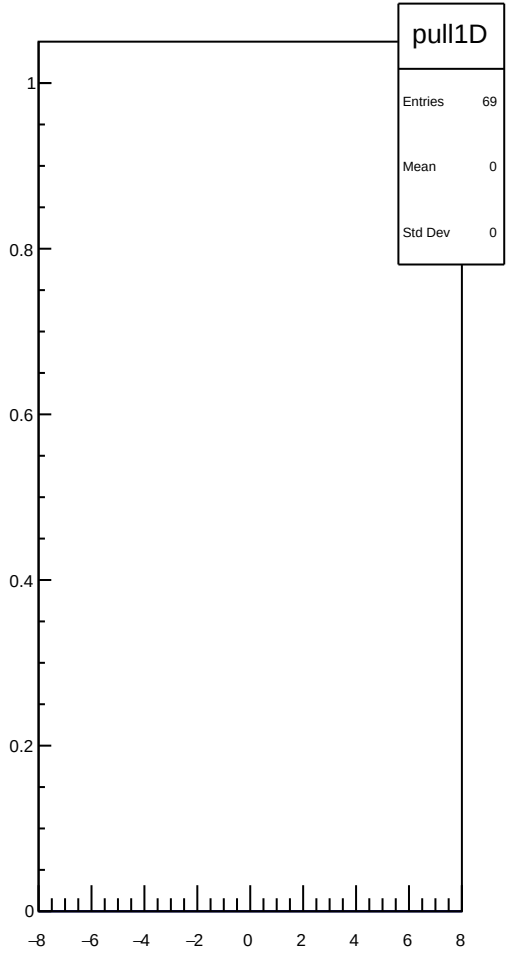

yield_bpm2i01X_rms vs run
χ² / ndf 2.425e+04 / 68
p0 0.004782 ± 4.138e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

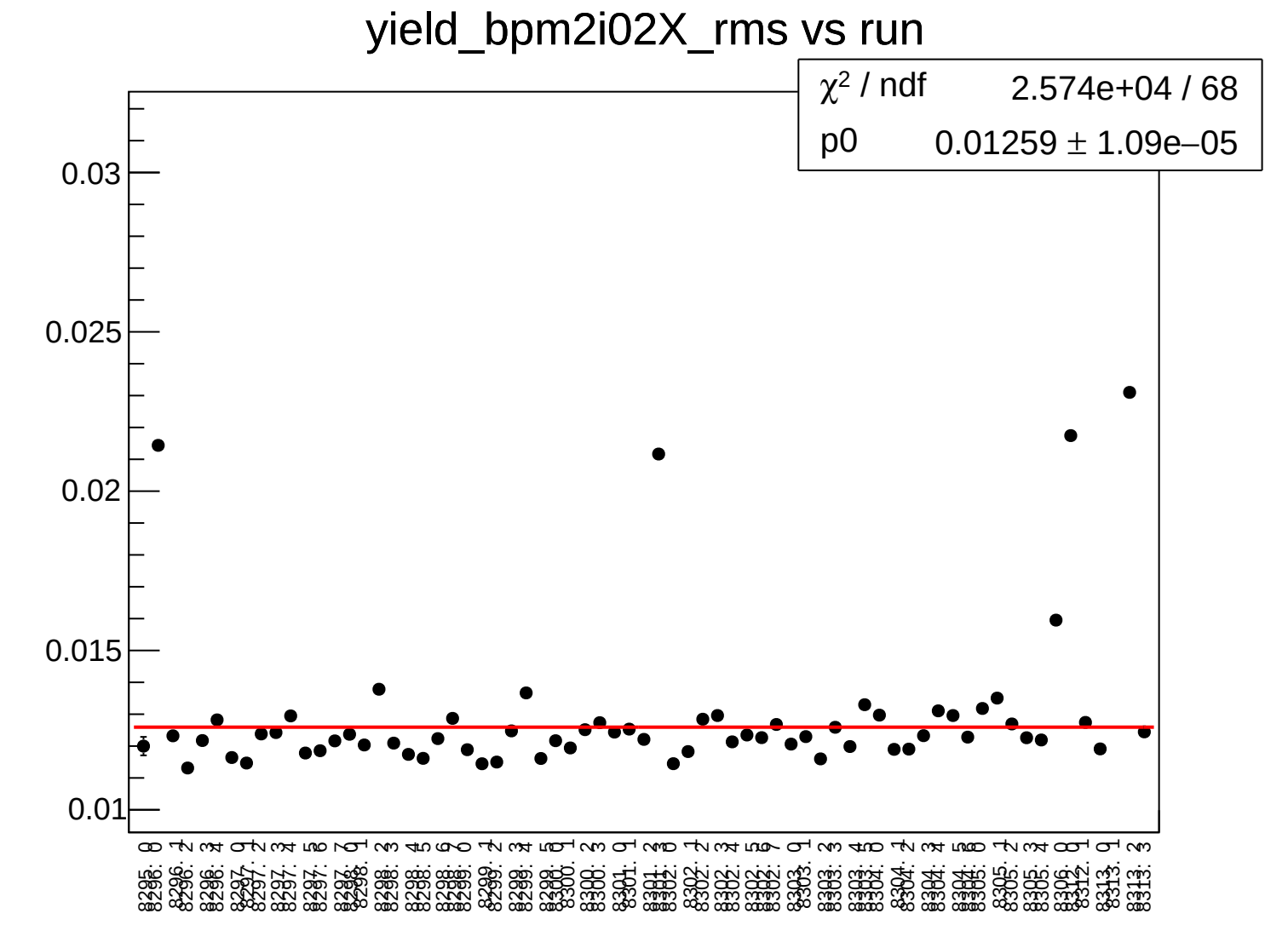

yield_bpm2i01Y_mean vs run
χ² / ndf 1.639e+06 / 68
p0 −4.744 ± 4.573e−06
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 69
Mean 320.3
Std Dev 264
400
300
200
100
0
−100
−200
−300

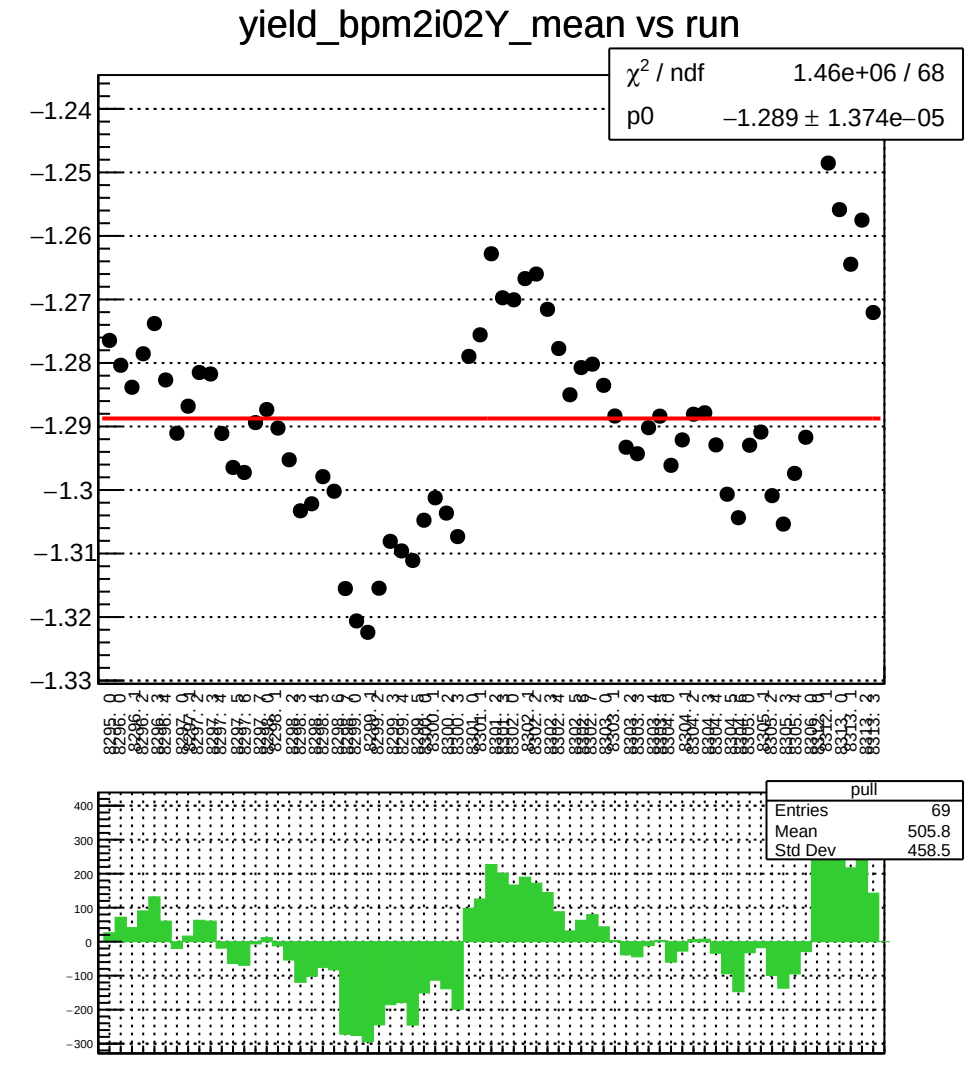

pull1D
Entries 69
Mean −1.371
Std Dev 5.762
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

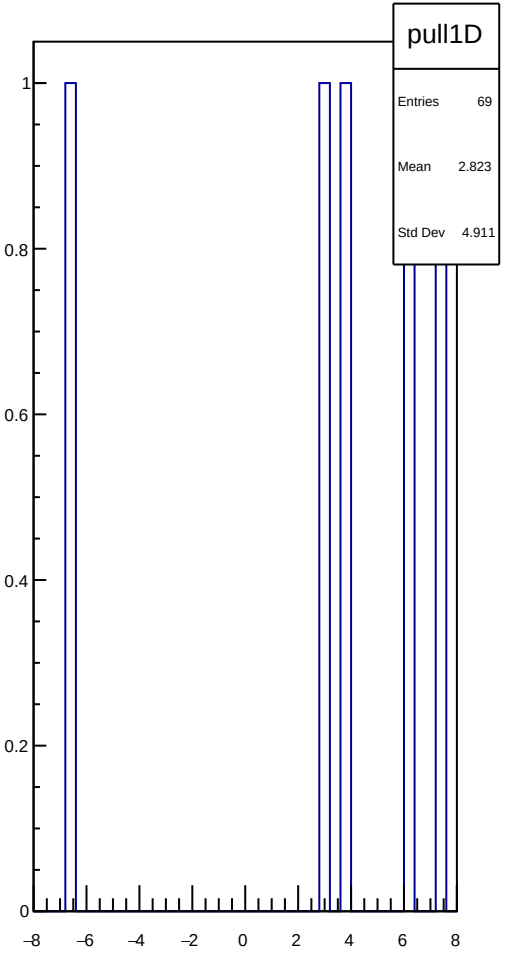

yield_bpm2i01Y_rms vs run
χ² / ndf 8810 / 68
p0 0.003759 ± 3.234e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

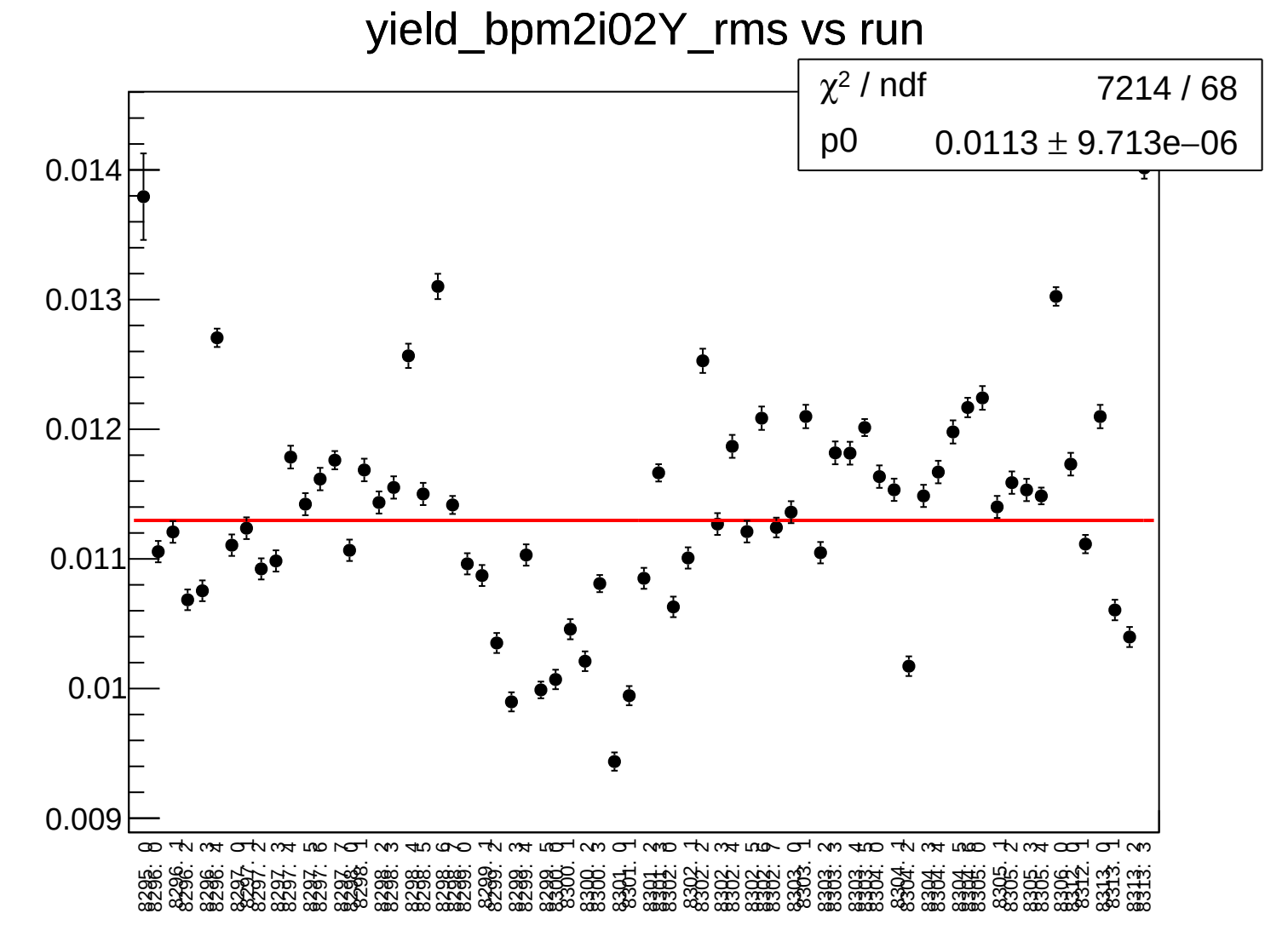

yield_bpm2i02X_mean vs run
χ² / ndf 8.544e+05 / 68
p0 0.02551± 1.542e–05
pull
Entries 69
Mean 7.353
Std Dev 40.47

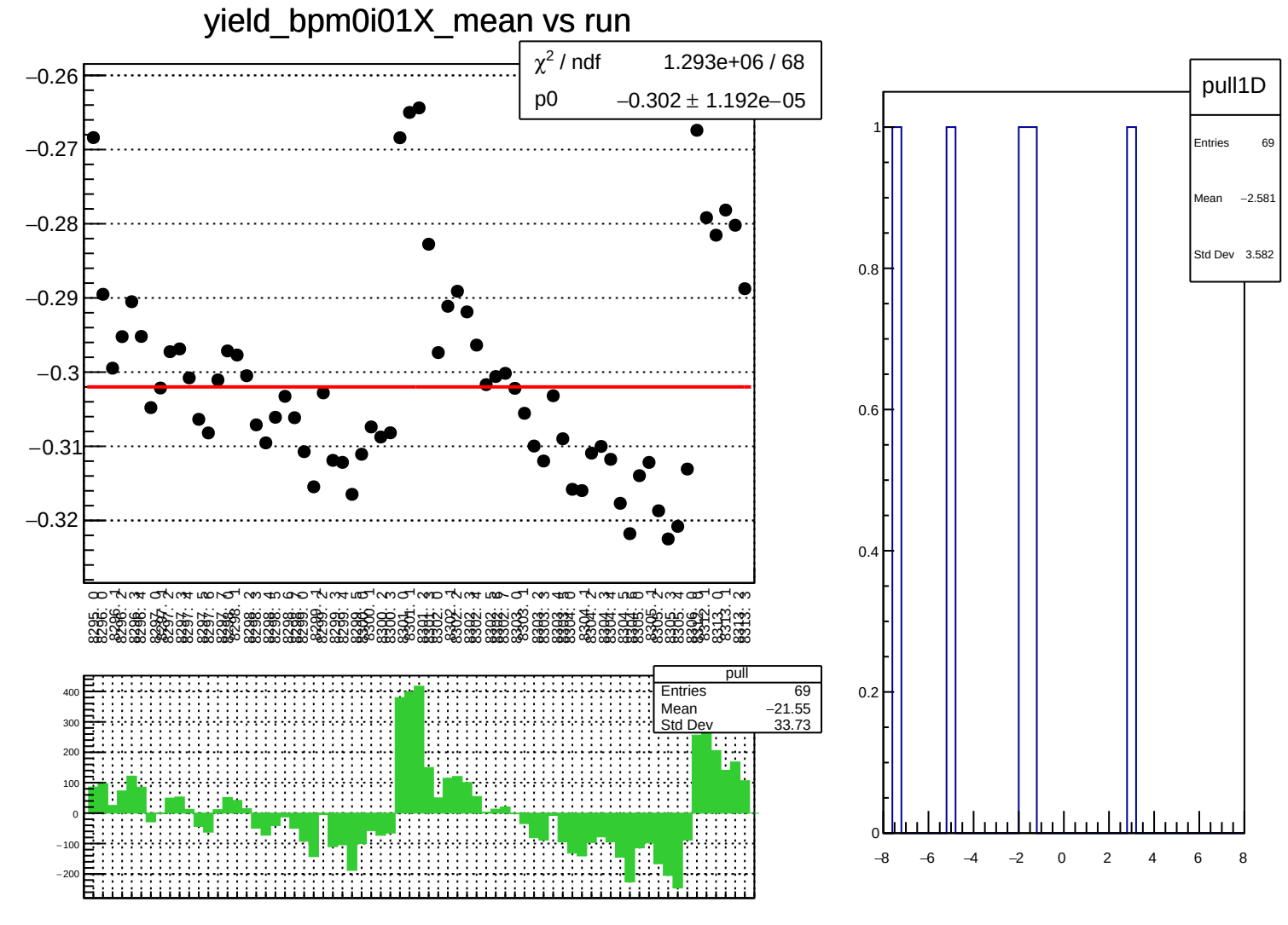

pull1D
Entries 69
Mean 0
Std Dev 0

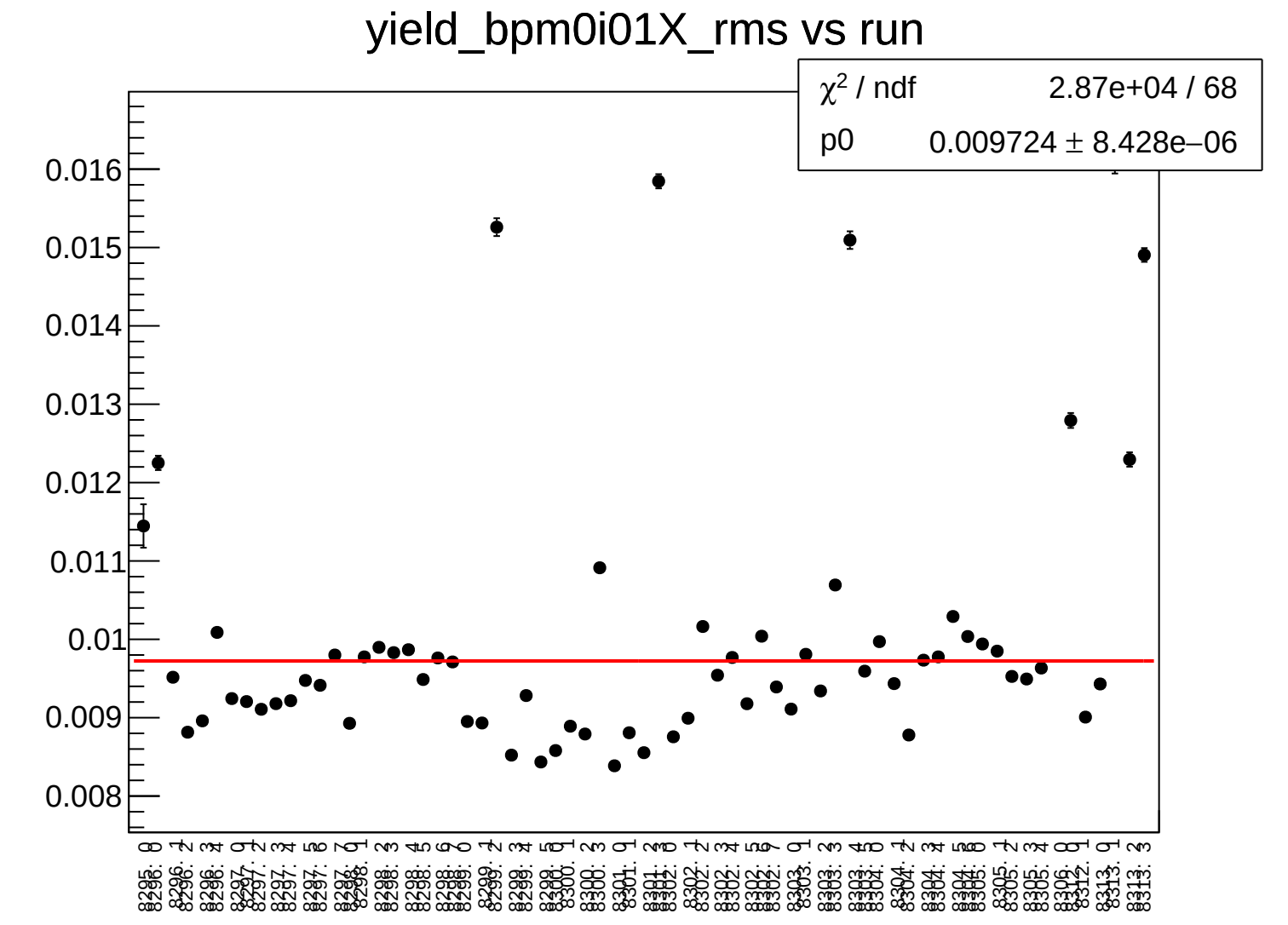

yield_bpm2i02X_rms vs run
χ² / ndf 2.574e+04 / 68
p0 0.01259 ± 1.09e−05
0.03
0.025
0.02
0.015
0.01

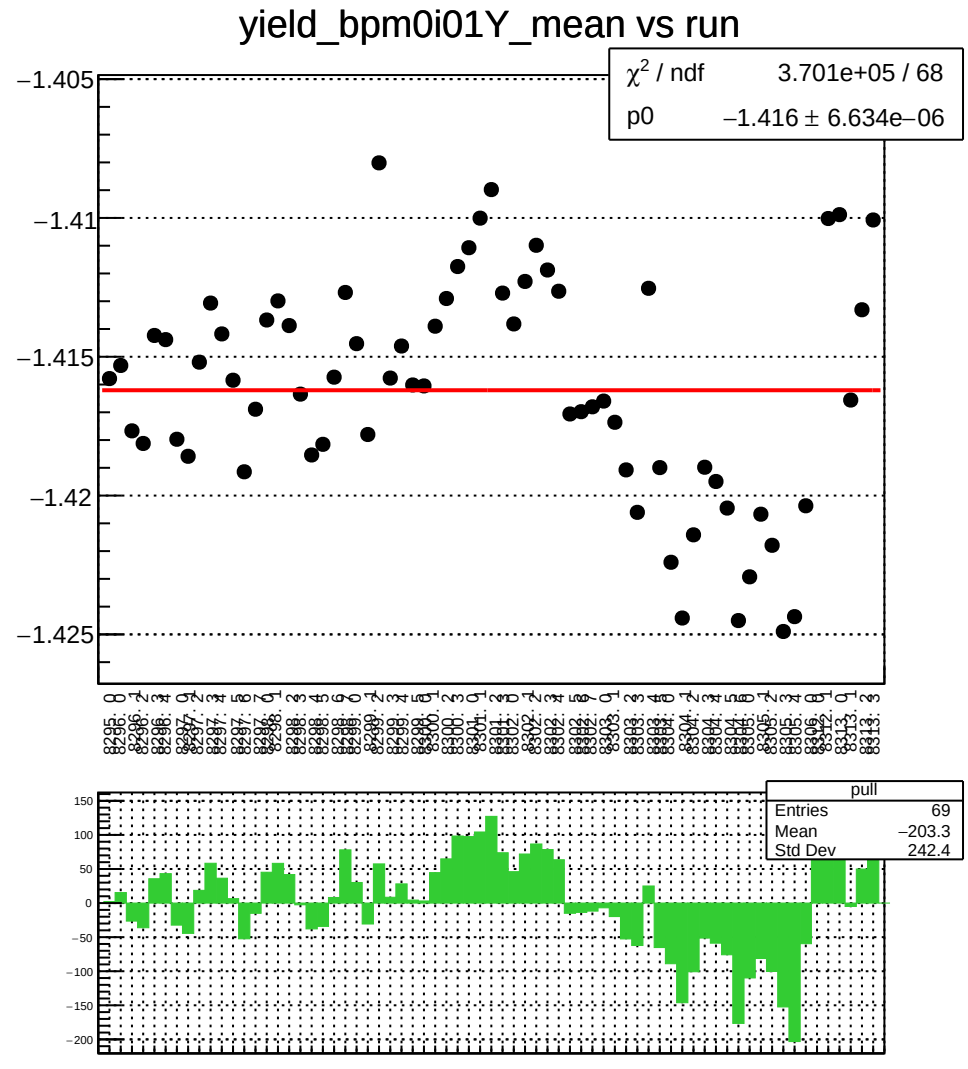

yield_bpm2i02Y_mean vs run
χ² / ndf 1.46e+06 / 68
p0 −1.289 ± 1.374e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
pull
Entries 69
Mean 505.8
Std Dev 458.5
400
300
200
100
0
−100
−200
−300

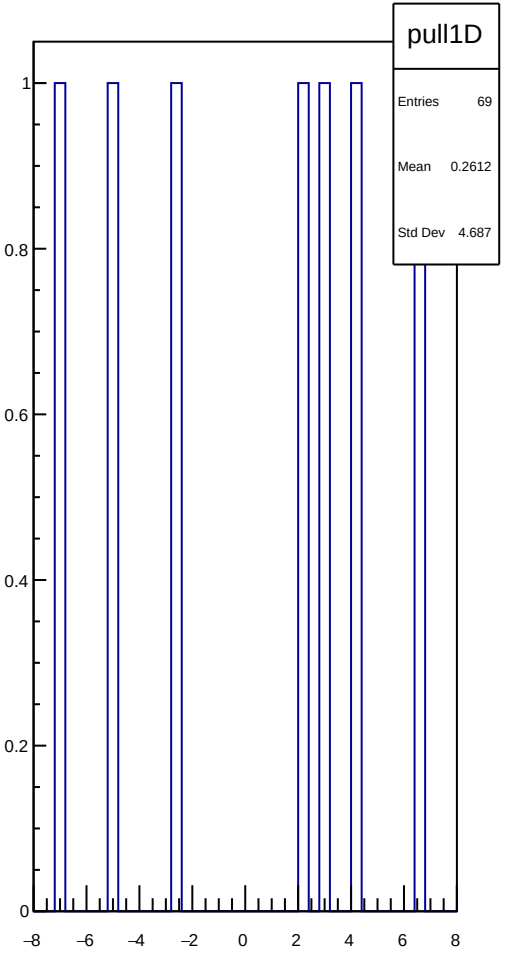

pull1D
Entries 69
Mean 2.823
Std Dev 4.911
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

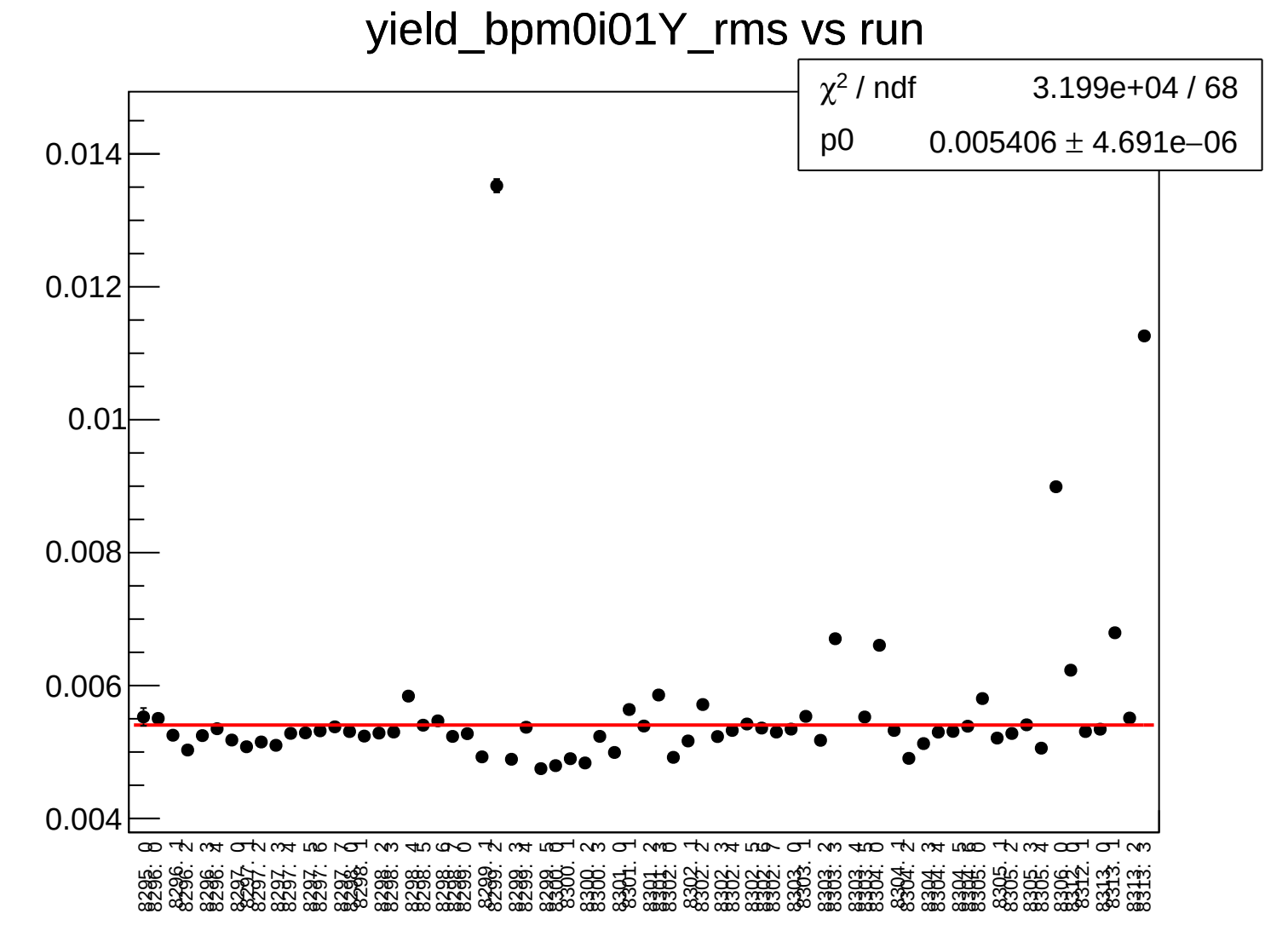

yield_bpm2i02Y_rms vs run
χ² / ndf 7214 / 68
p0 0.0113 ± 9.713e−06
0.014
0.013
0.012
0.011
0.01
0.009

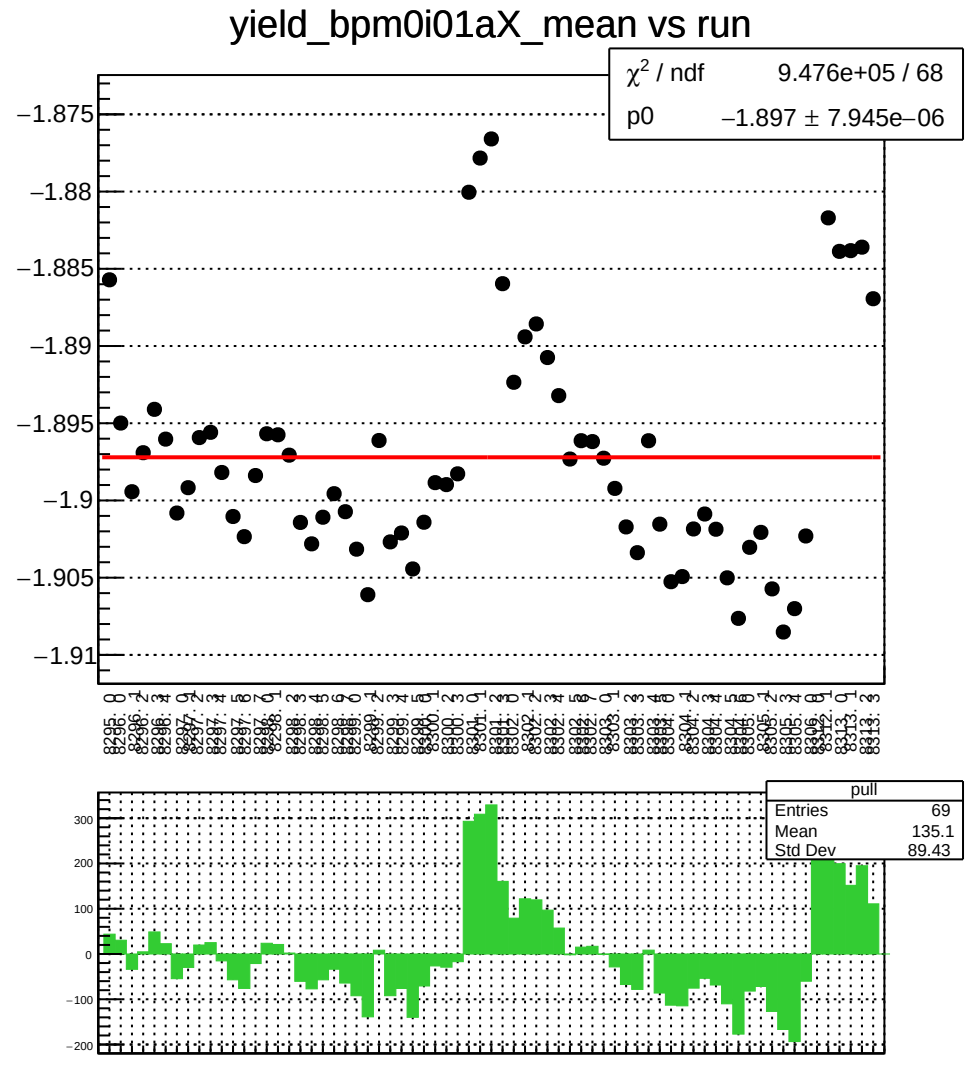

yield_bpm0i01X_mean vs run
χ² / ndf 1.293e+06 / 68
p0 −0.302 ± 1.192e−05
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 69
Mean −21.55
Std Dev 33.73
400
300
200
100
0
−100
−200
pull1D
Entries 69
Mean −2.581
Std Dev 3.582
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

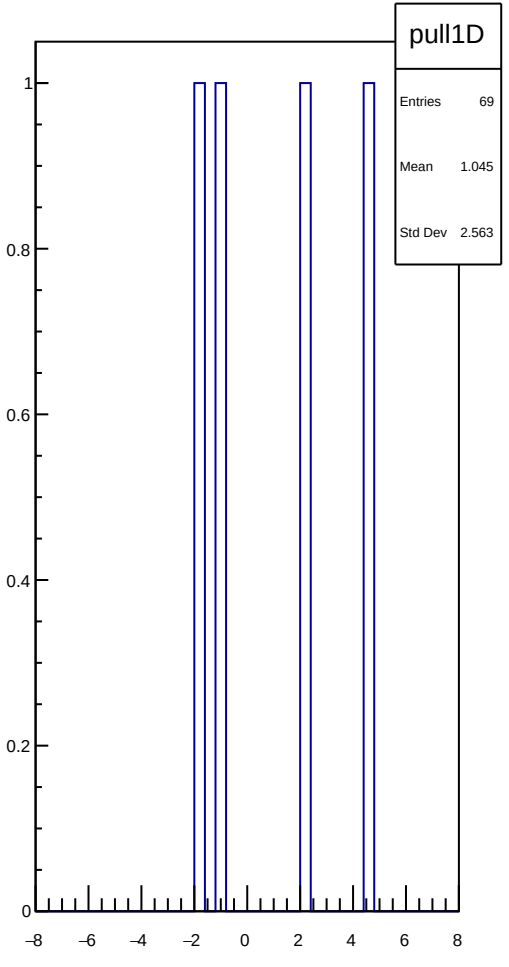

yield_bpm0i01X_rms vs run
χ² / ndf 2.87e+04 / 68
p0 0.009724 ± 8.428e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

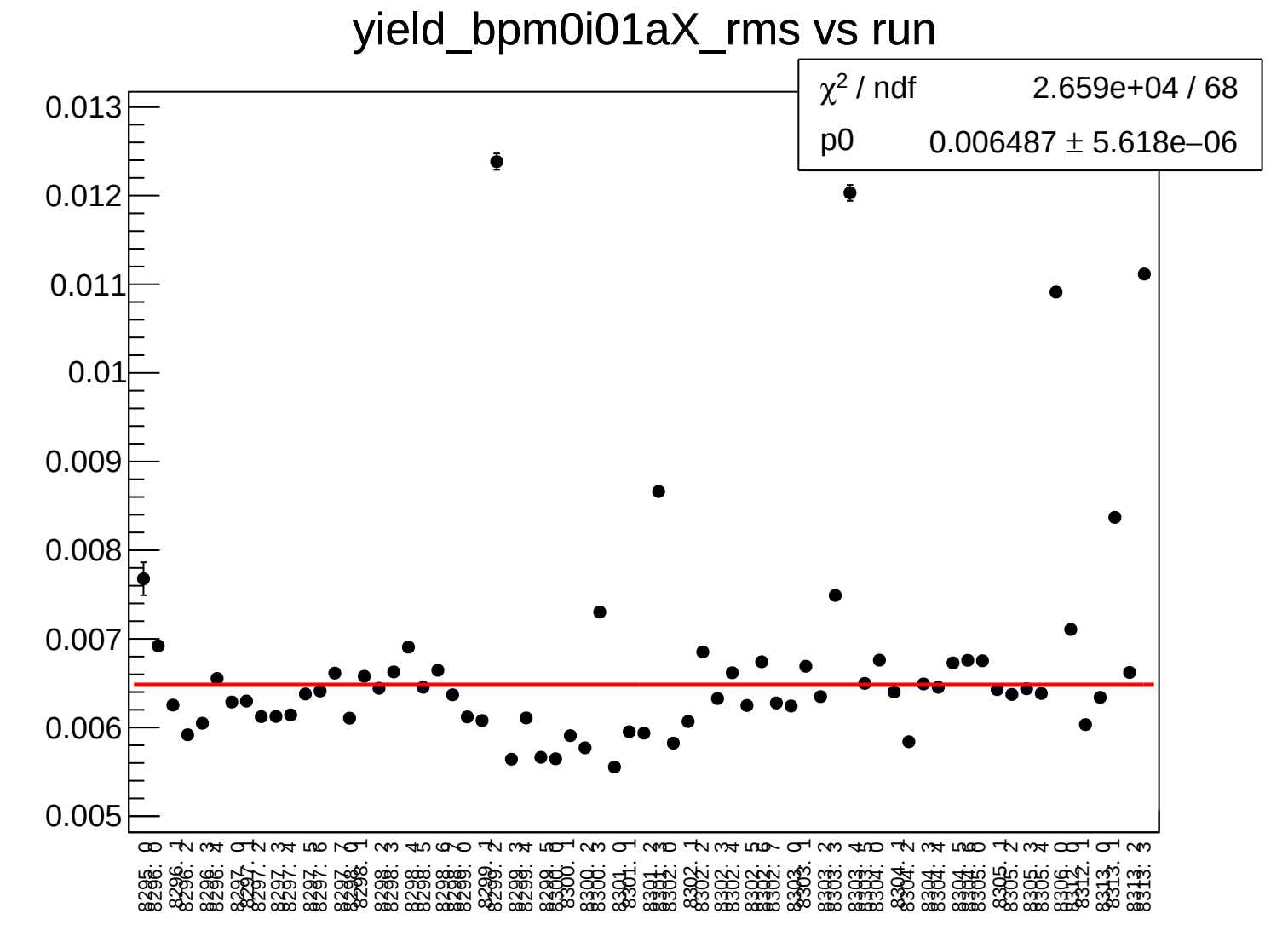

yield_bpm0i01Y_mean vs run
χ² / ndf 3.701e+05 / 68
p0 −1.416 ± 6.634e−06
−1.405
−1.41
−1.415
−1.42
−1.425
pull
Entries 69
Mean −203.3
Std Dev 242.4
150
100
50
0
−50
−100
−150
−200

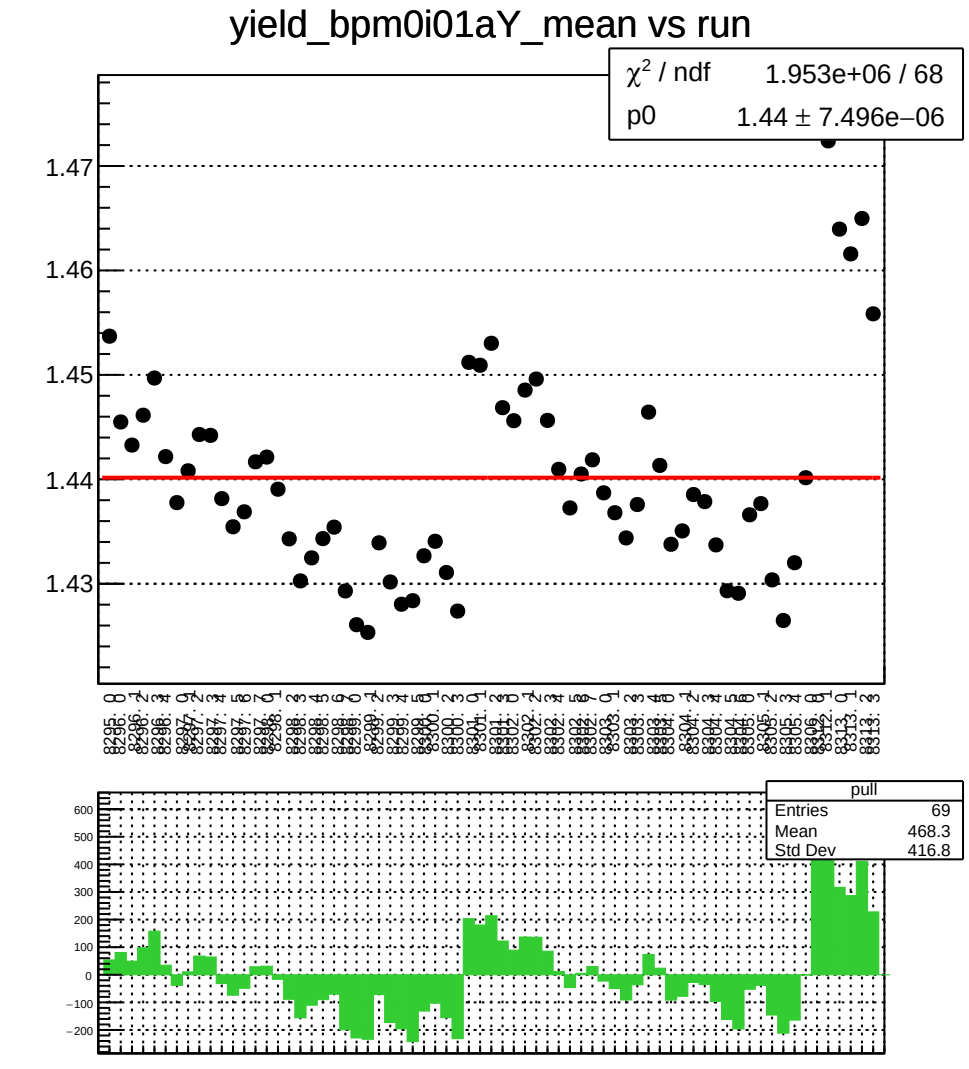

pull1D
Entries 69
Mean 0.2612
Std Dev 4.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

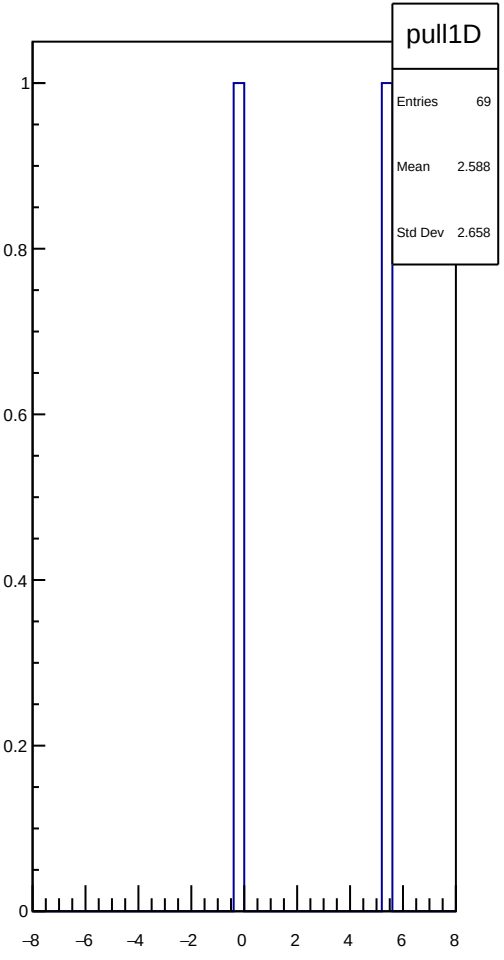

yield_bpm0i01Y_rms vs run
χ² / ndf 3.199e+04 / 68
p0 0.005406 ± 4.691e−06
0.014
0.012
0.01
0.008
0.006
0.004

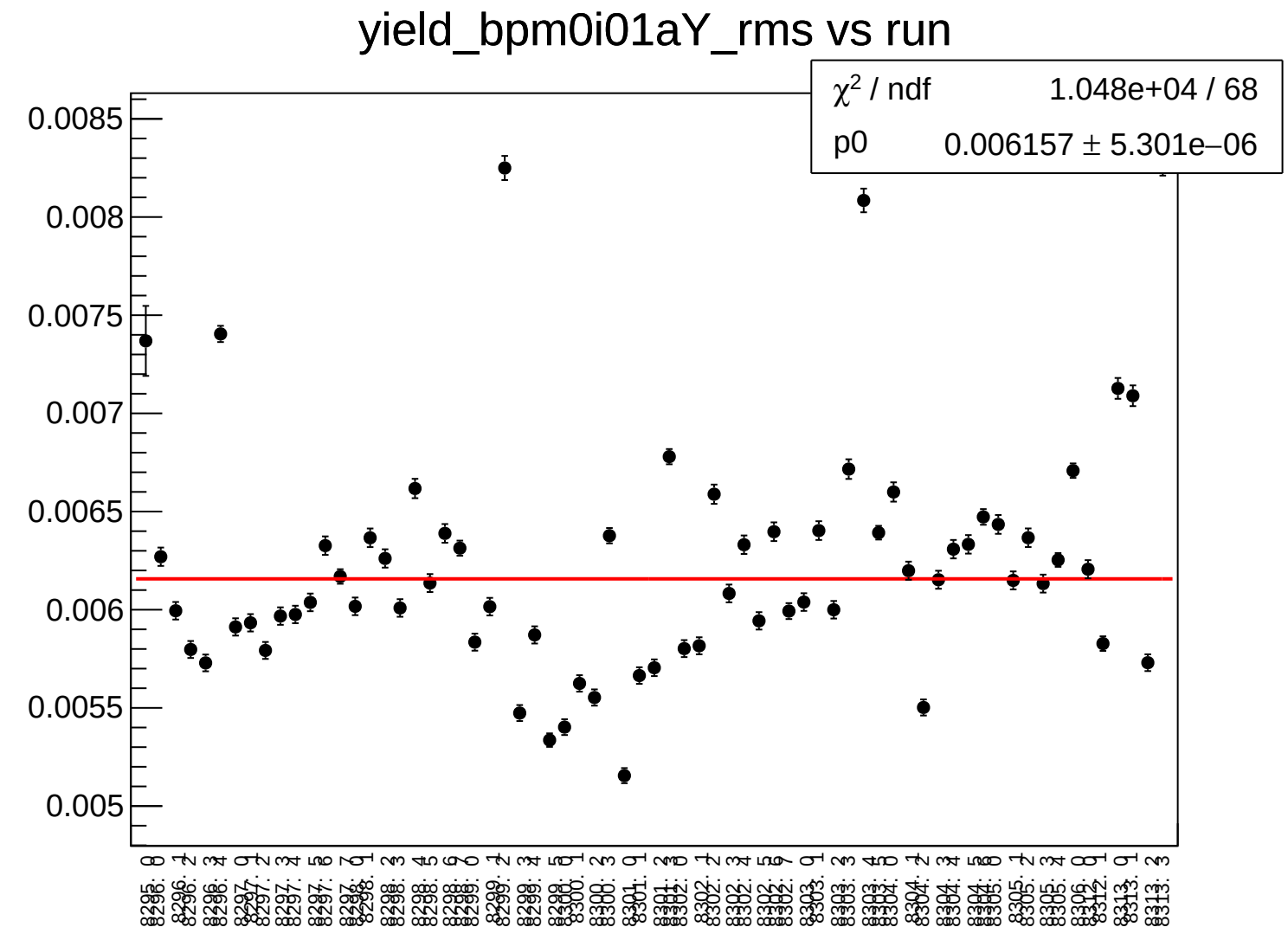

yield_bpm0i01aX_mean vs run
χ² / ndf 9.476e+05 / 68
p0 −1.897 ± 7.945e−06
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
−1.91
pull
Entries 69
Mean 135.1
Std Dev 89.43
300
200
100
0
−100
−200

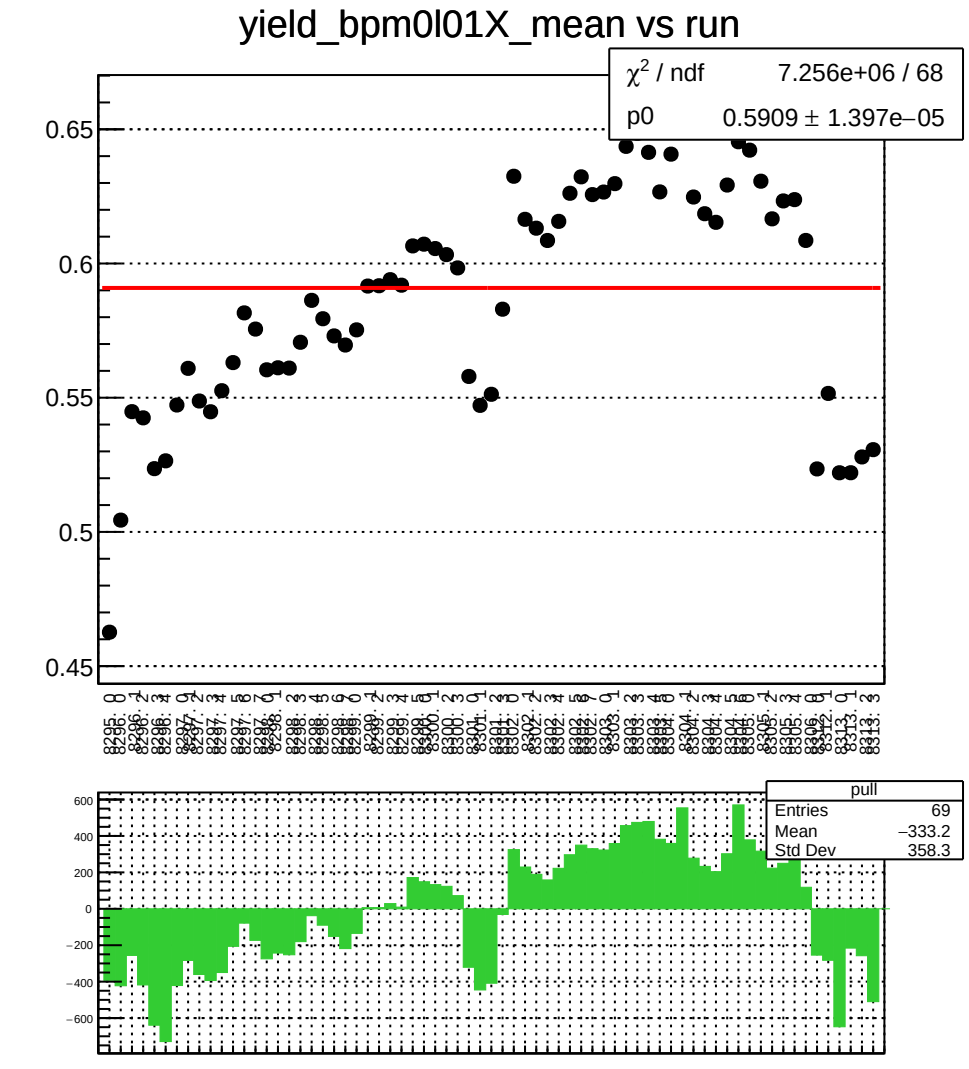

pull1D
Entries 69
Mean 1.045
Std Dev 2.563
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

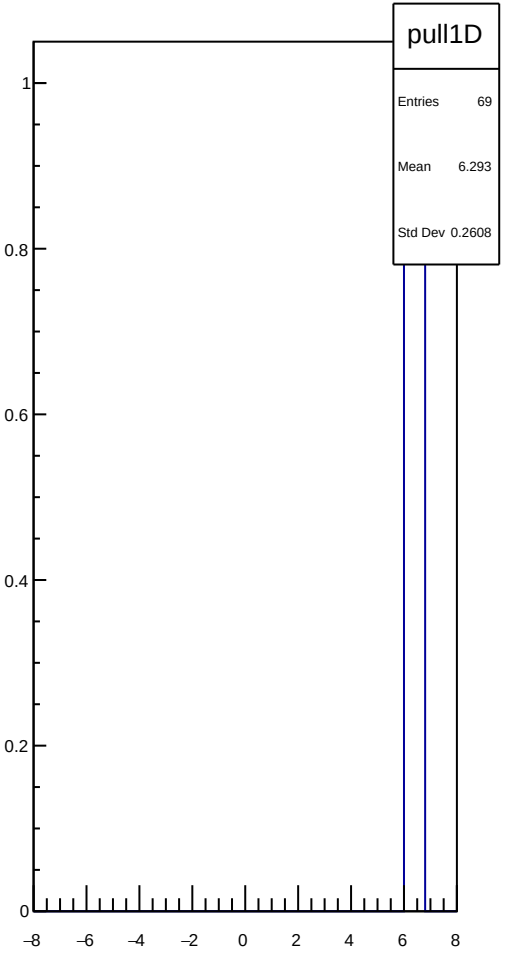

yield_bpm0i01aX_rms vs run
χ² / ndf 2.659e+04 / 68
p0 0.006487 ± 5.618e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

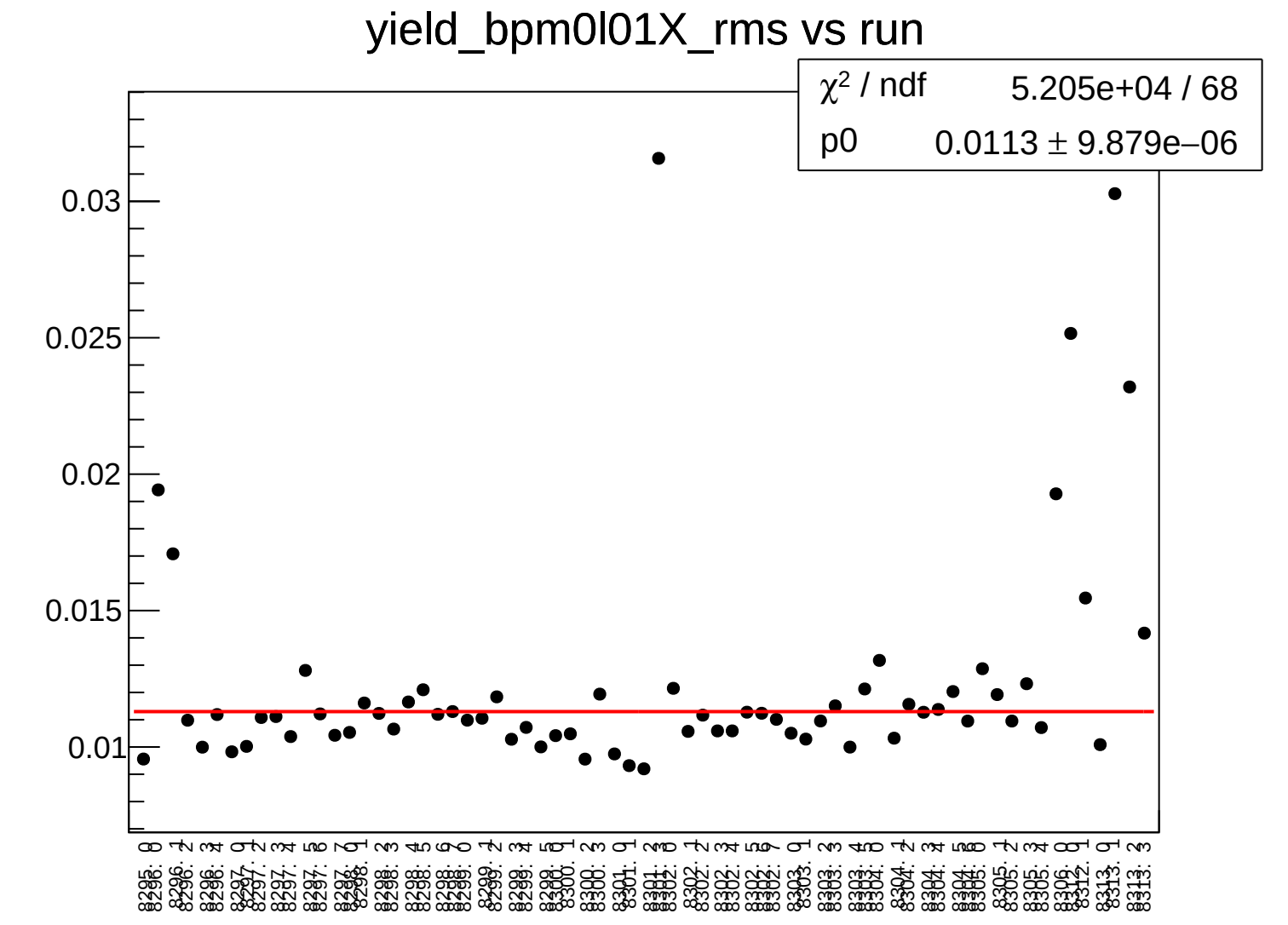

yield_bpm0i01aY_mean vs run
χ² / ndf 1.953e+06 / 68
p0 1.44 ± 7.496e−06
1.47
1.46
1.45
1.44
1.43
pull
Entries 69
Mean 468.3
Std Dev 416.8
600
500
400
300
200
100
0
−100
−200

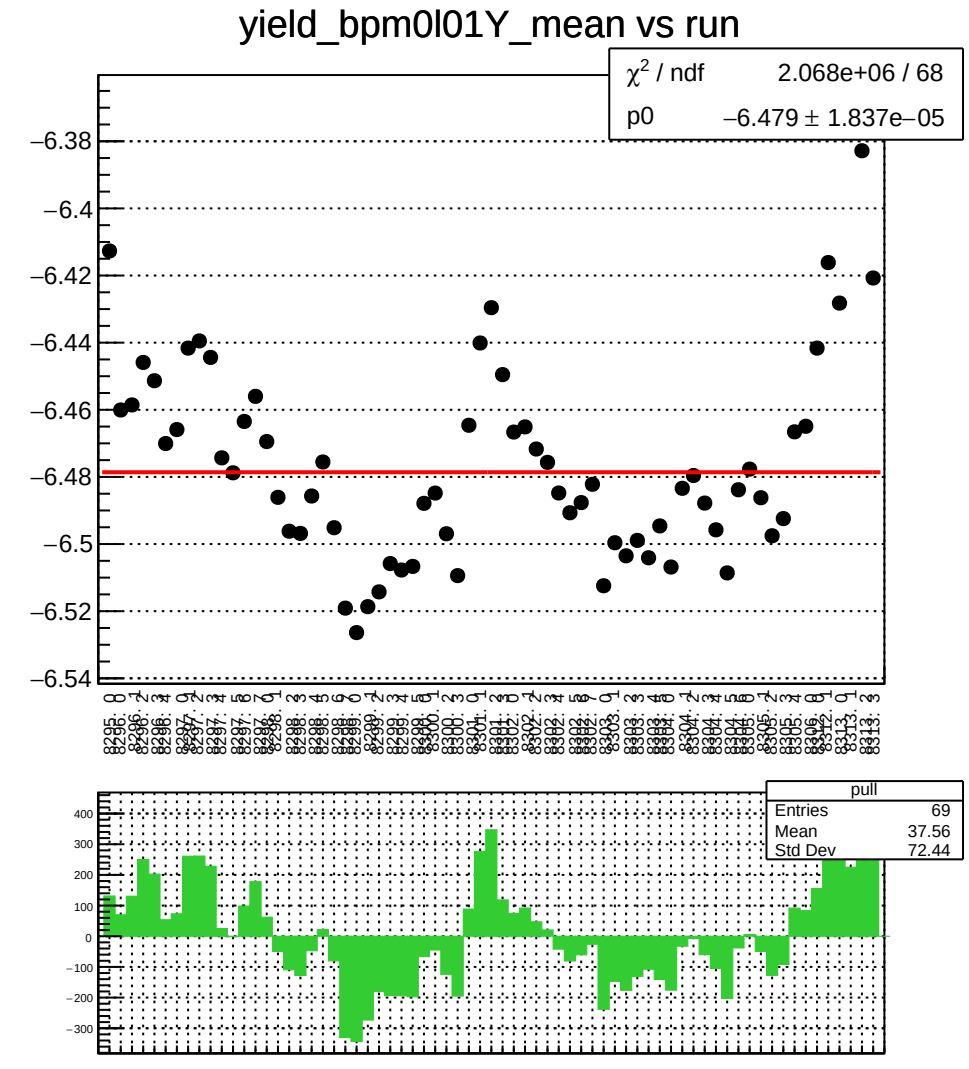

pull1D
Entries 69
Mean 2.588
Std Dev 2.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

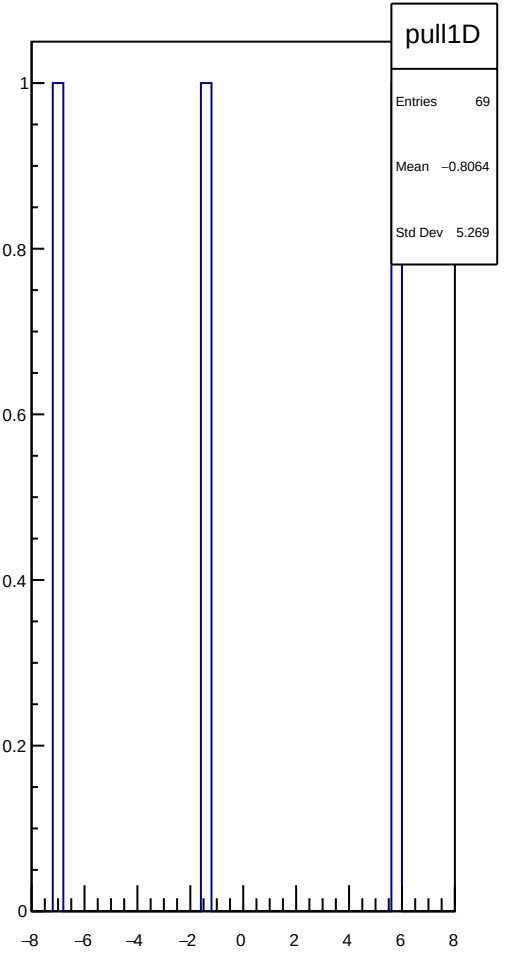

yield_bpm0i01aY_rms vs run
χ² / ndf 1.048e+04 / 68
p0 0.006157 ± 5.301e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

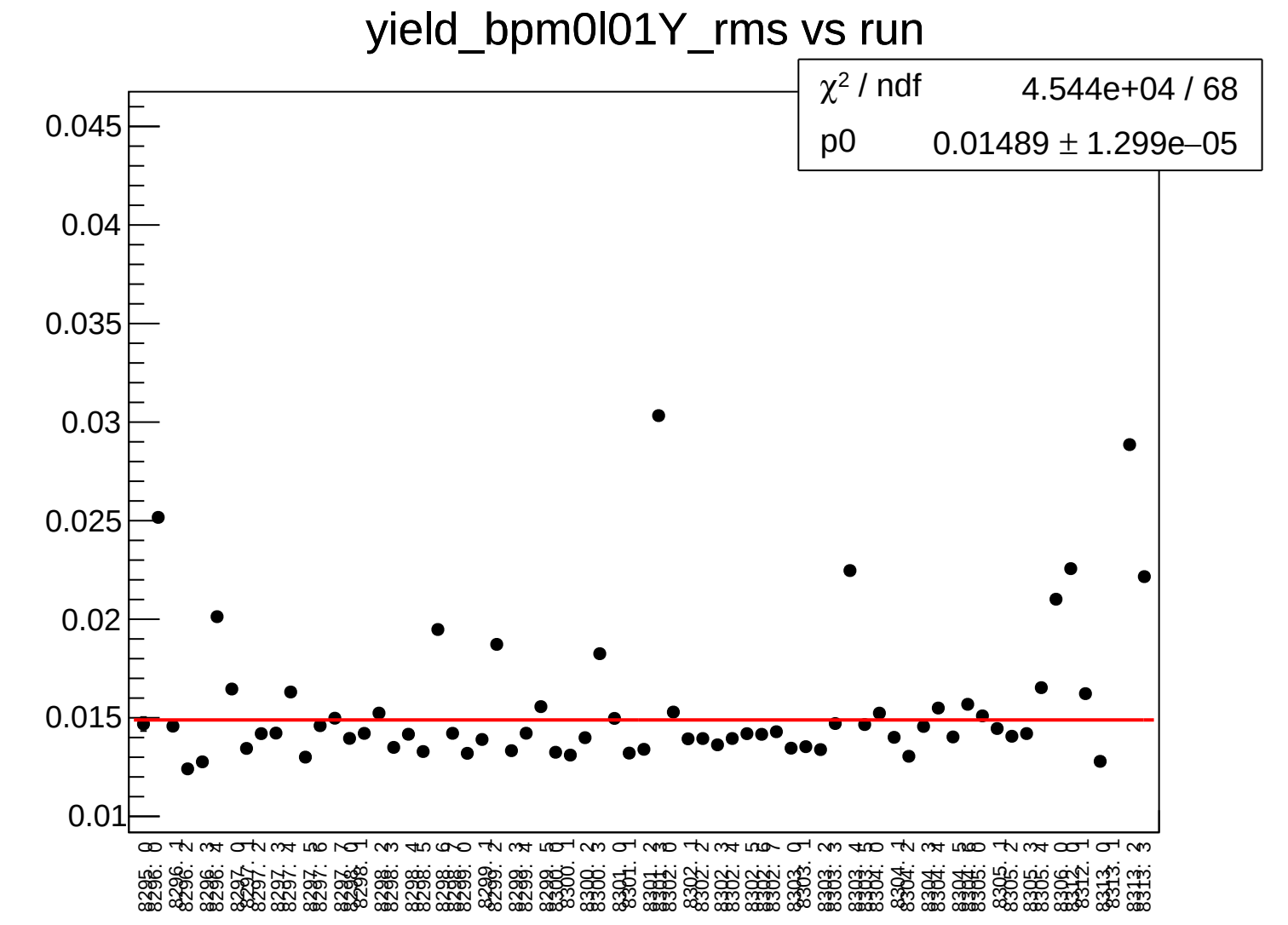

yield_bpm0l01X_mean vs run
χ² / ndf 7.256e+06 / 68
p0 0.5909 ± 1.397e−05
0.65
0.6
0.55
0.5
0.45
pull
Entries 69
Mean −333.2
Std Dev 358.3
600
400
200
0
−200
−400
−600

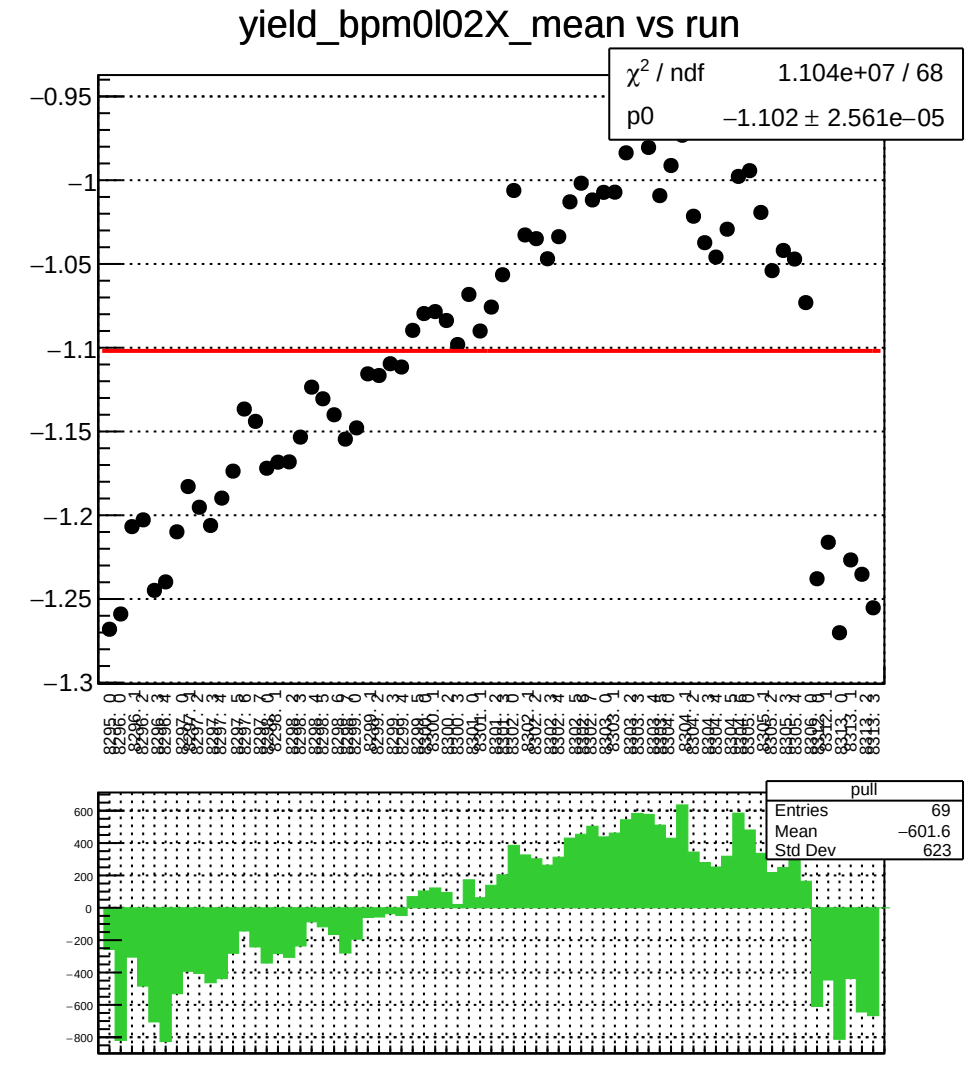

pull1D
Entries 69
Mean 6.293
Std Dev 0.2608
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

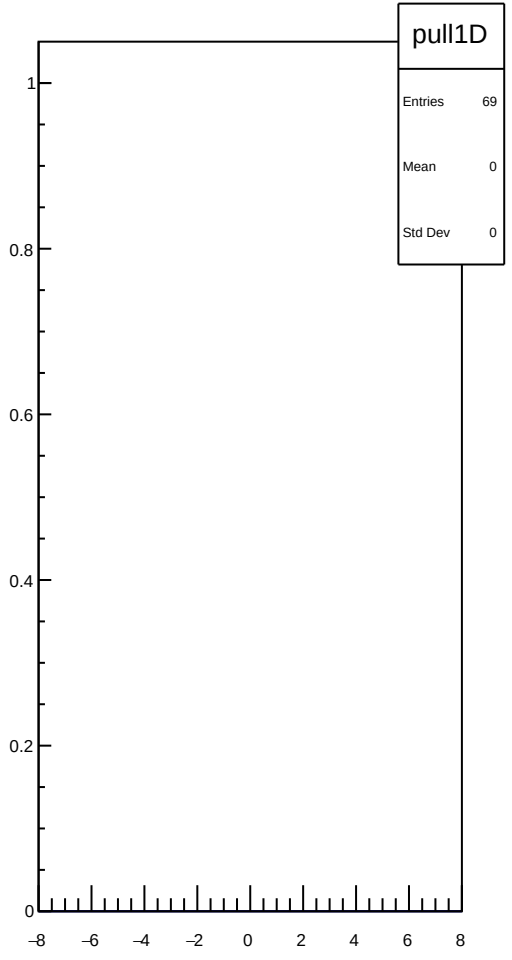

yield_bpm0l01X_rms vs run
χ² / ndf 5.205e+04 / 68
p0 0.0113 ± 9.879e−06
0.03
0.025
0.02
0.015
0.01

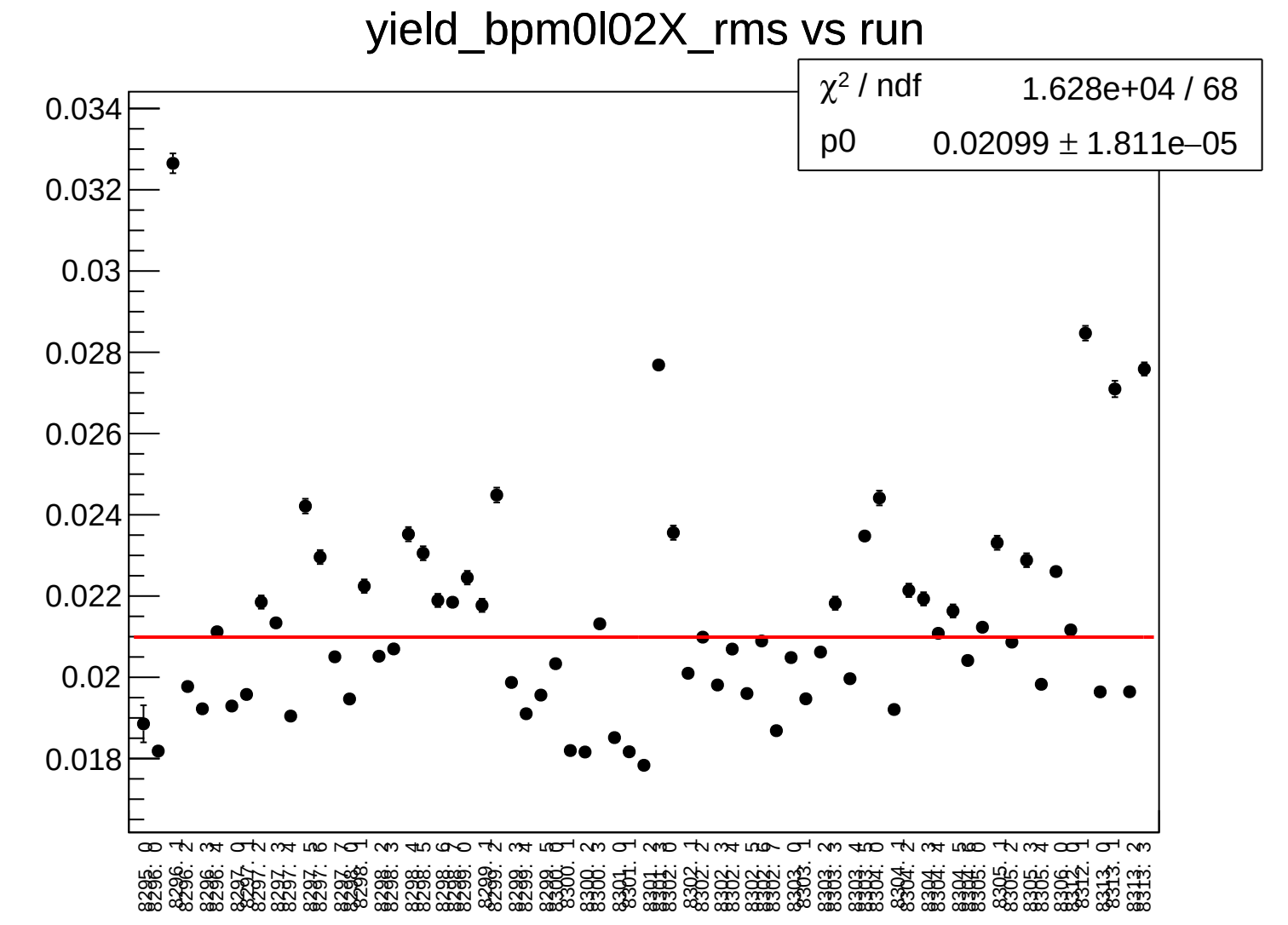

yield_bpm0l01Y_mean vs run
χ² / ndf 2.068e+06 / 68
p0 −6.479 ± 1.837e−05
−6.38
−6.4
−6.42
−6.44
−6.46
−6.48
−6.5
−6.52
−6.54
pull
Entries 69
Mean 37.56
Std Dev 72.44
400
300
200
100
0
−100
−200
−300

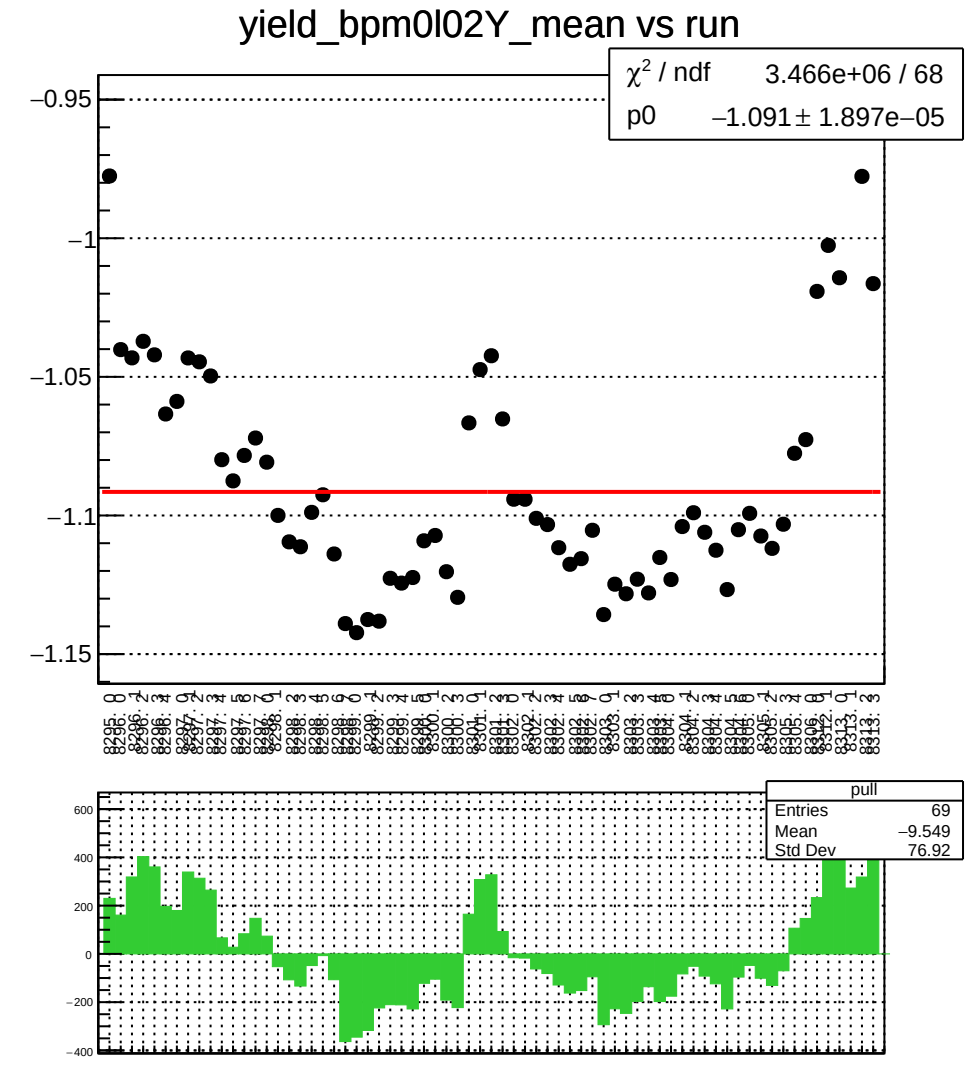

pull1D
Entries 69
Mean −0.8064
Std Dev 5.269
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

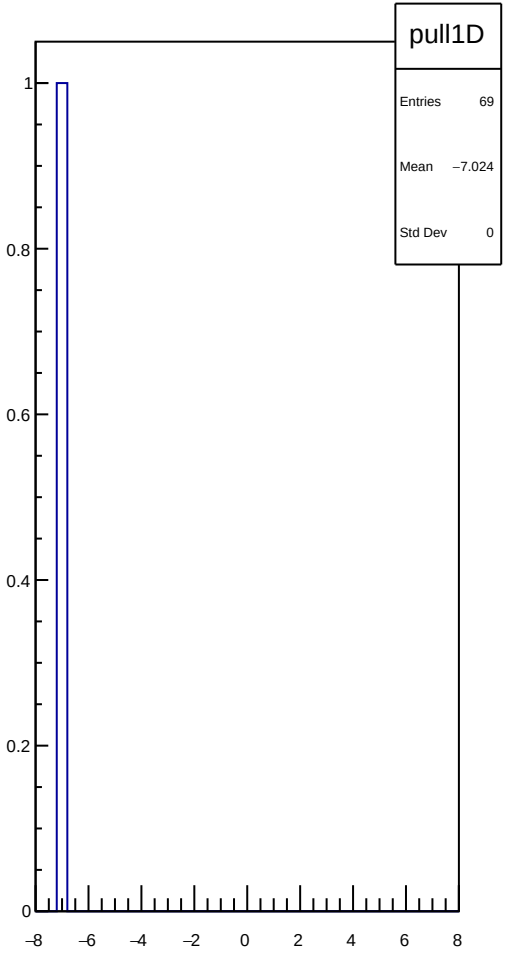

yield_bpm0l01Y_rms vs run
χ² / ndf 4.544e+04 / 68
p0 0.01489 ± 1.299e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

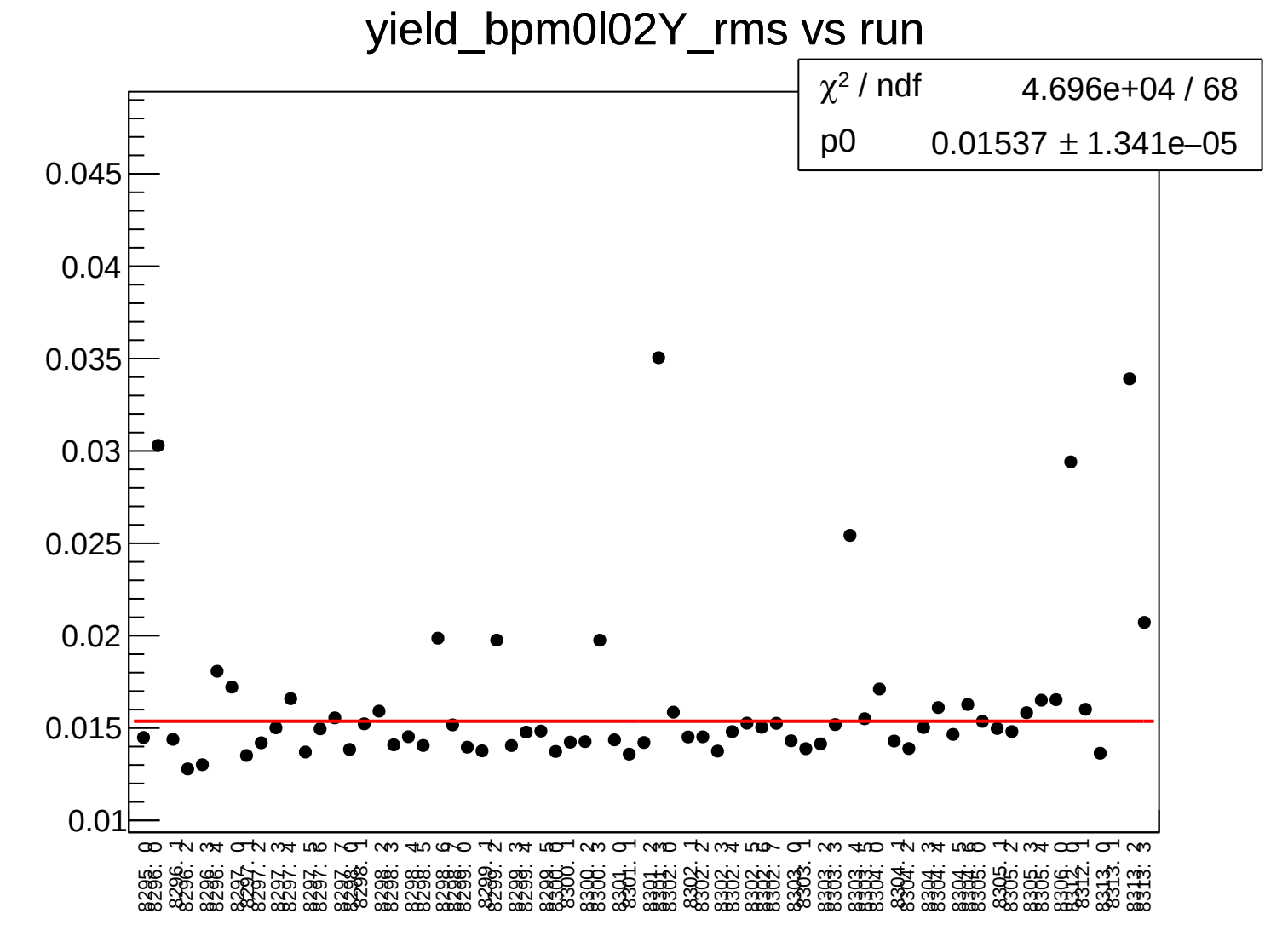

yield_bpm0l02X_mean vs run
χ² / ndf 1.104e+07 / 68
p0 −1.102 ± 2.561e−05
pull
Entries 69
Mean −601.6
Std Dev 623

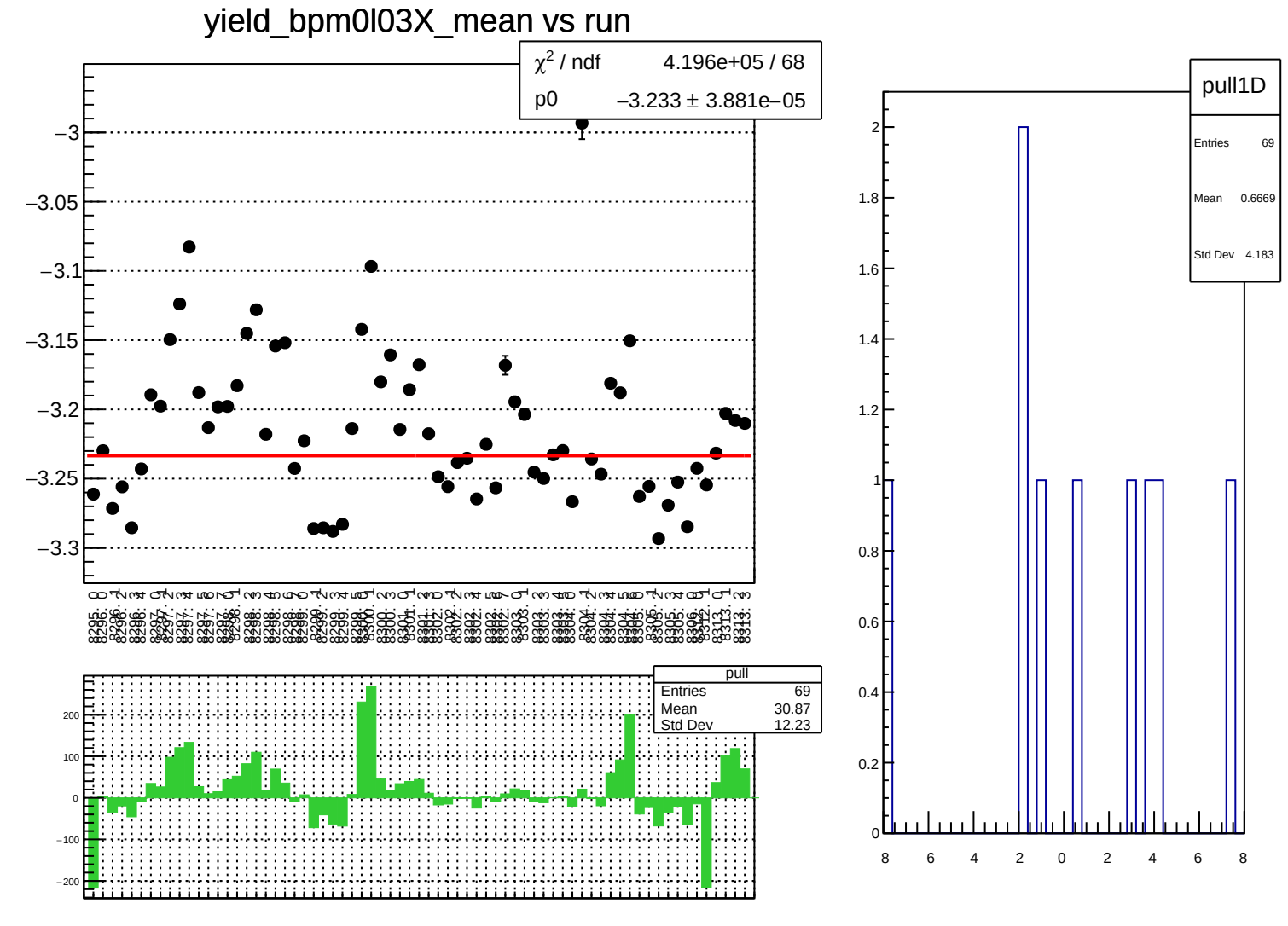

pull1D
Entries 69
Mean 0
Std Dev 0

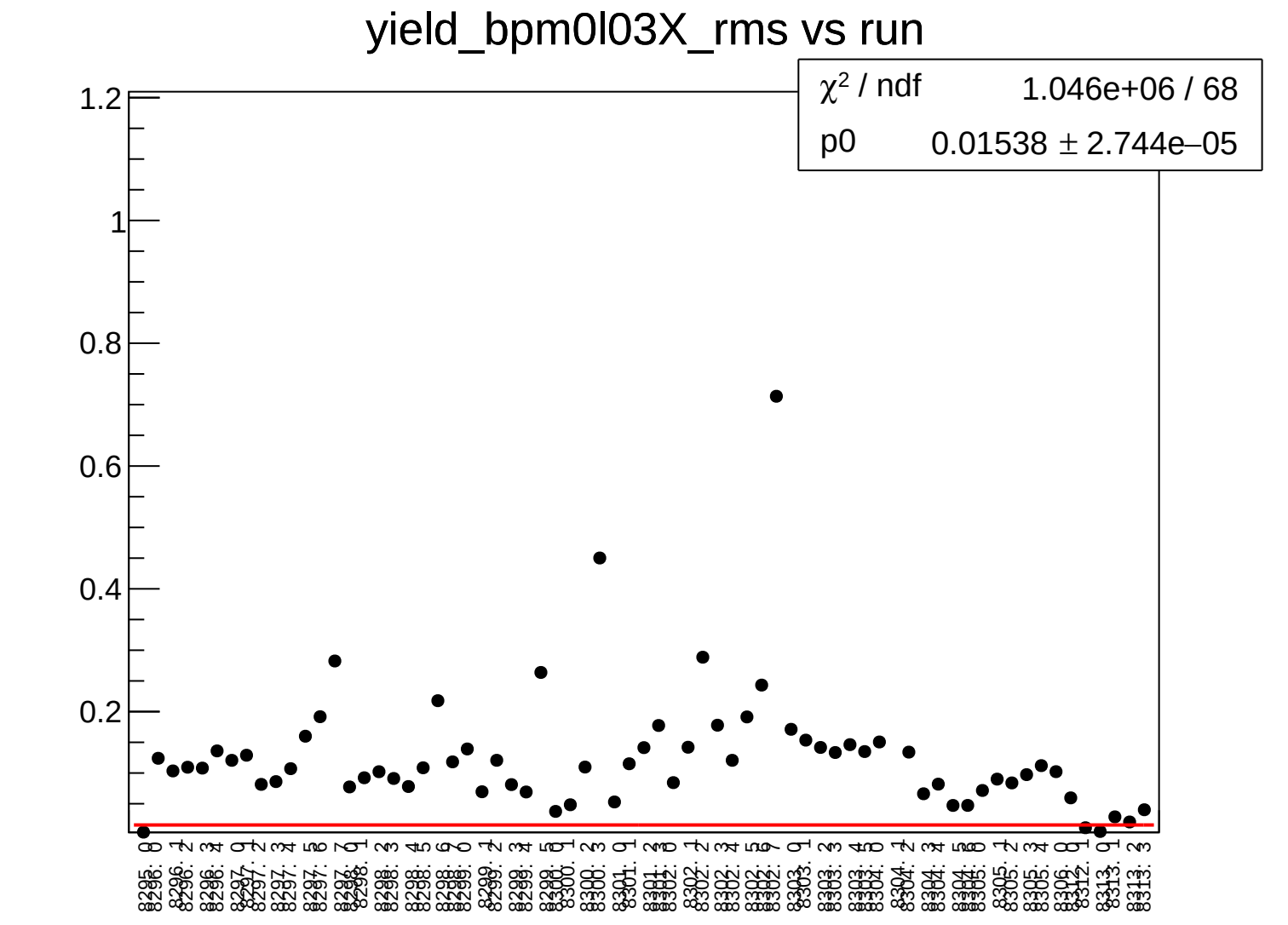

yield_bpm0l02X_rms vs run
χ² / ndf 1.628e+04 / 68
p0 0.02099 ± 1.811e–05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

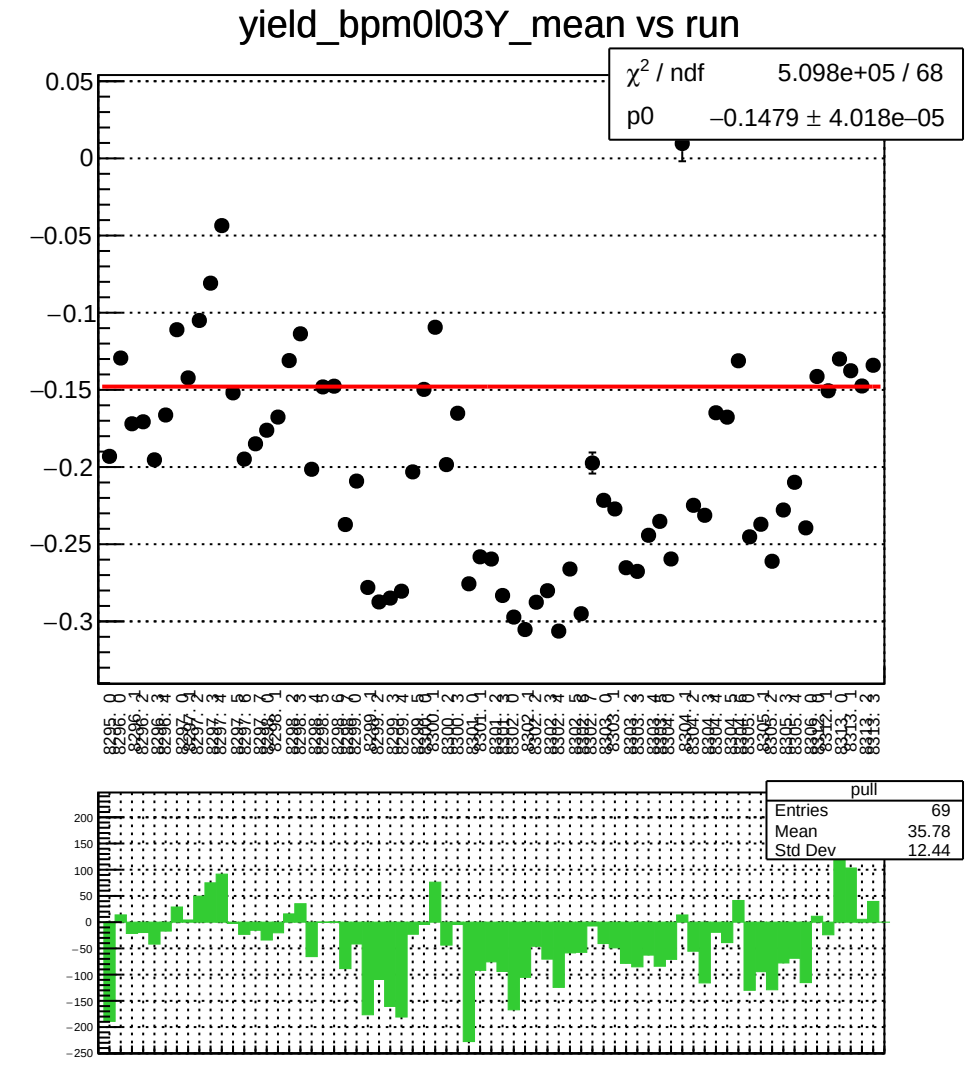

yield_bpm0l02Y_mean vs run
χ² / ndf 3.466e+06 / 68
p0 −1.091 ± 1.897e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 69
Mean −9.549
Std Dev 76.92
600
400
200
0
−200
−400

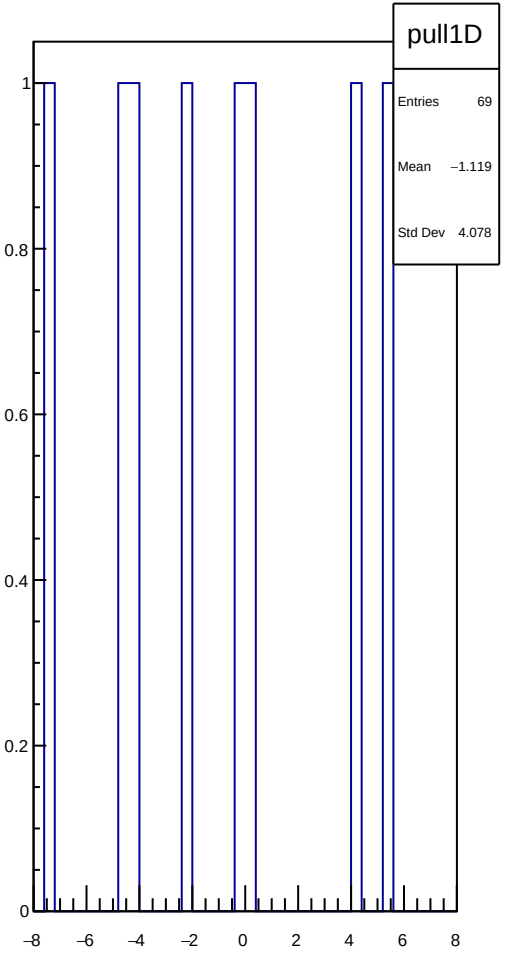

pull1D
Entries 69
Mean −7.024
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

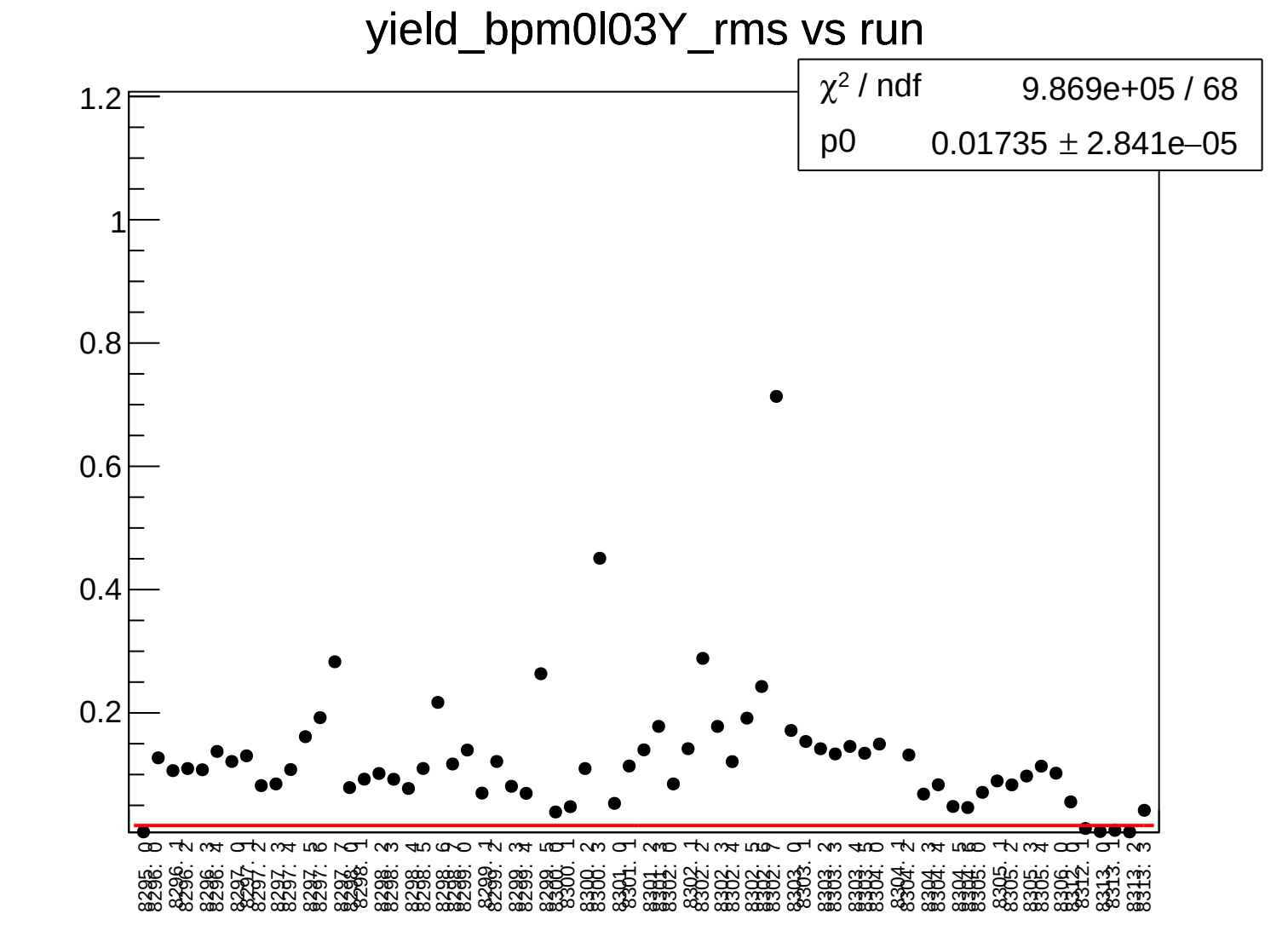

yield_bpm0l02Y_rms vs run
χ² / ndf 4.696e+04 / 68
p0 0.01537 ± 1.341e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

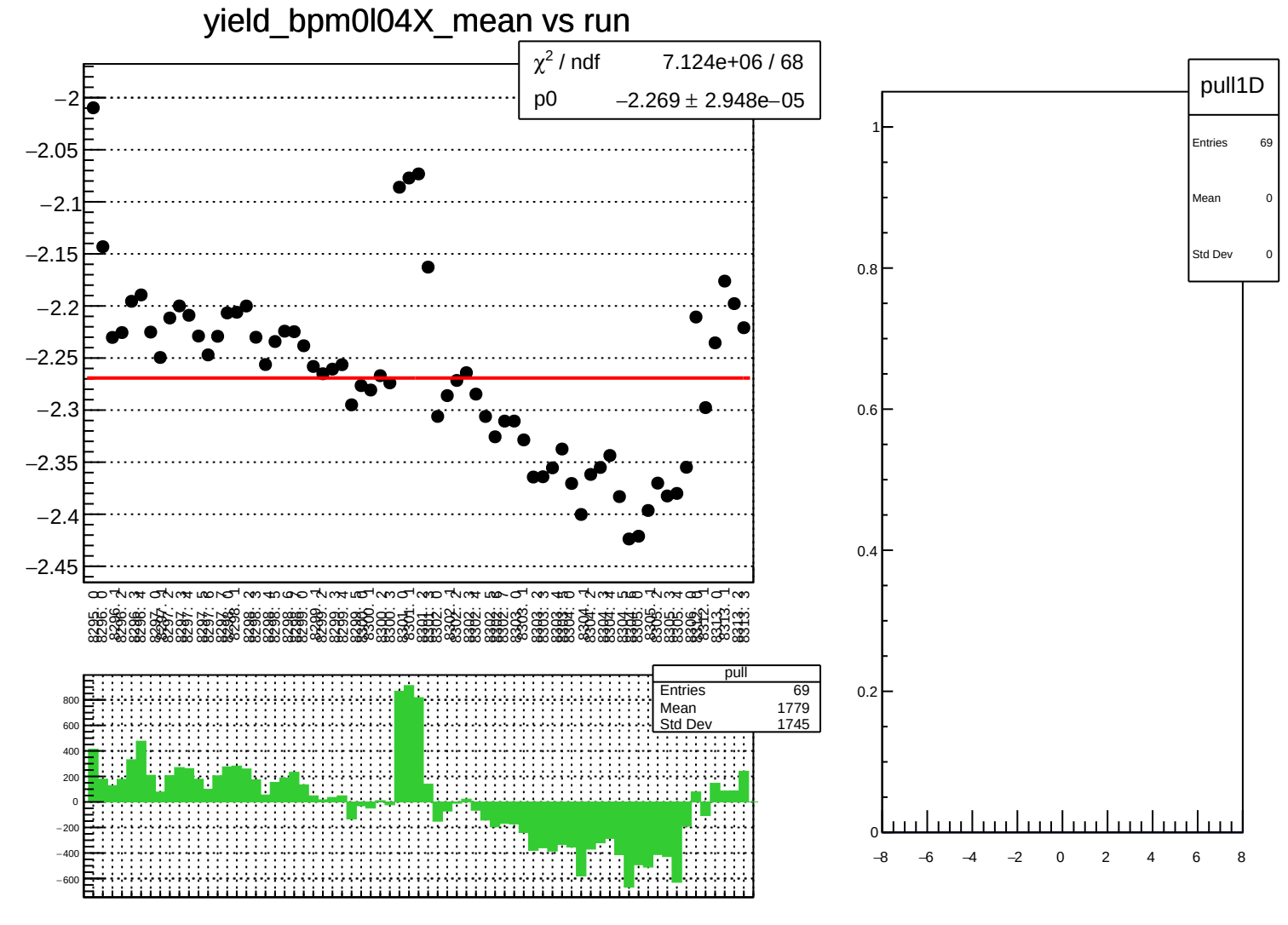

yield_bpm0l03X_mean vs run
χ² / ndf 4.196e+05 / 68
p0 −3.233 ± 3.881e−05
pull
Entries 69
Mean 30.87
Std Dev 12.23
pull1D
Entries 69
Mean 0.6669
Std Dev 4.183

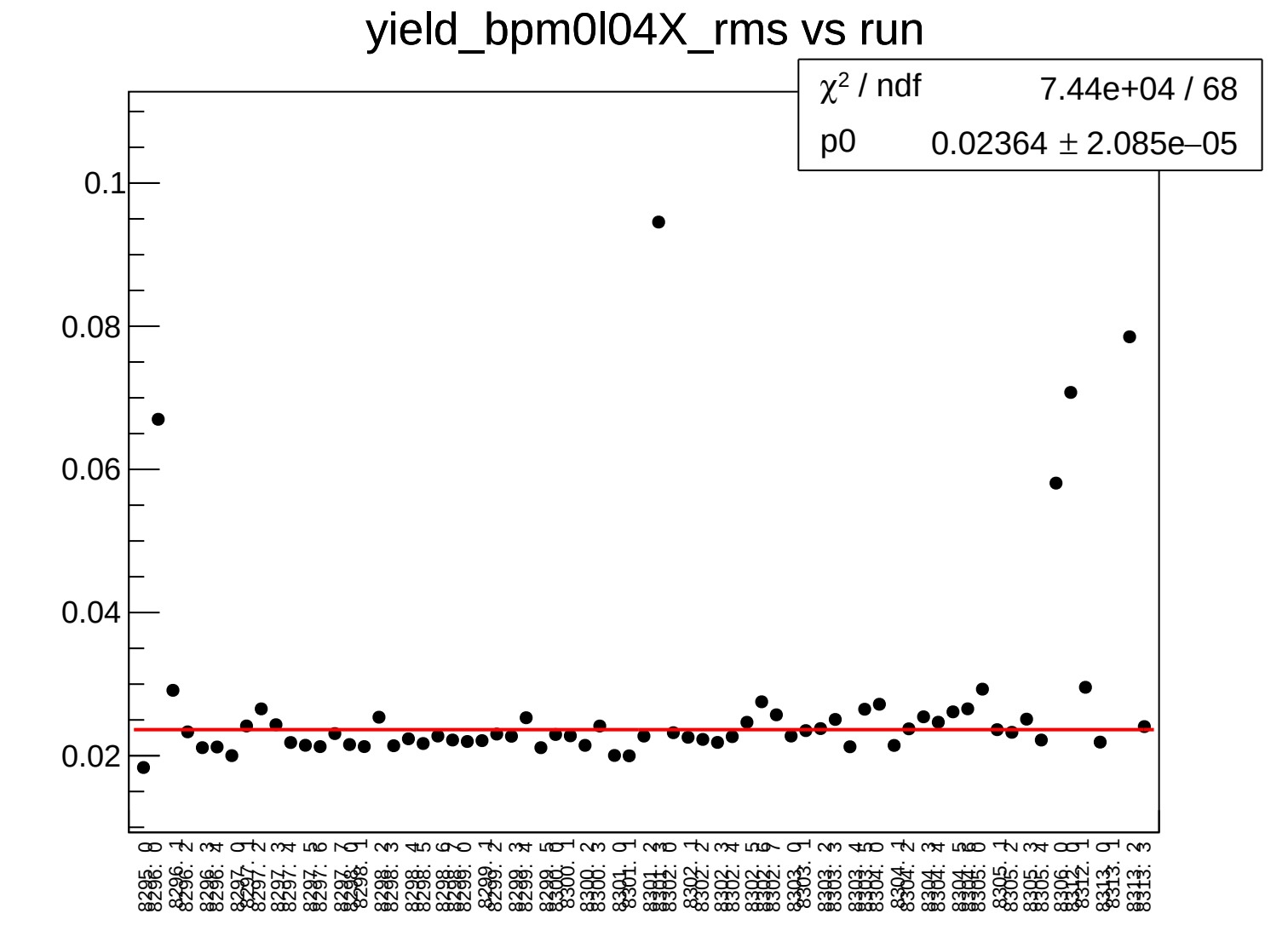

yield_bpm0l03X_rms vs run
χ² / ndf 1.046e+06 / 68
p0 0.01538 ± 2.744e–05
1.2
1
0.8
0.6
0.4
0.2

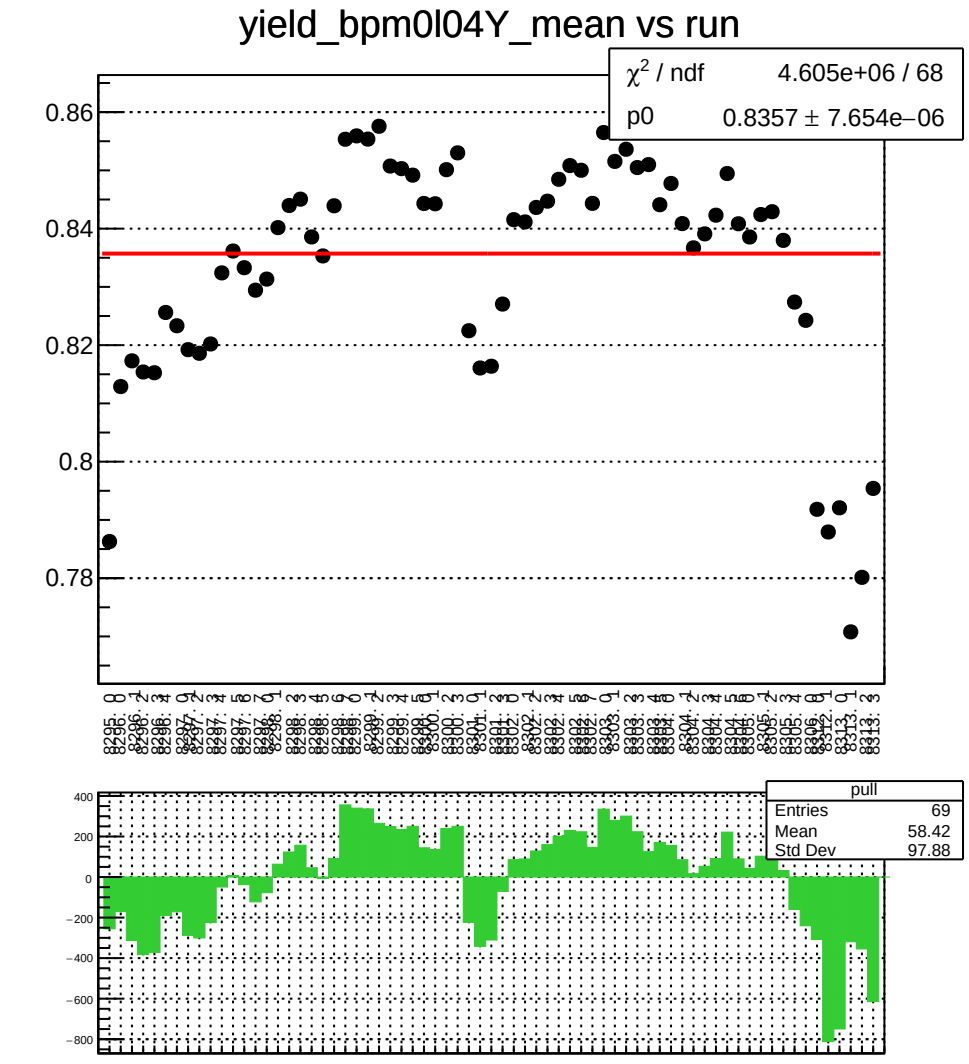

yield_bpm0l03Y_mean vs run
χ² / ndf 5.098e+05 / 68
p0 −0.1479 ± 4.018e−05
pull
Entries 69
Mean 35.78
Std Dev 12.44

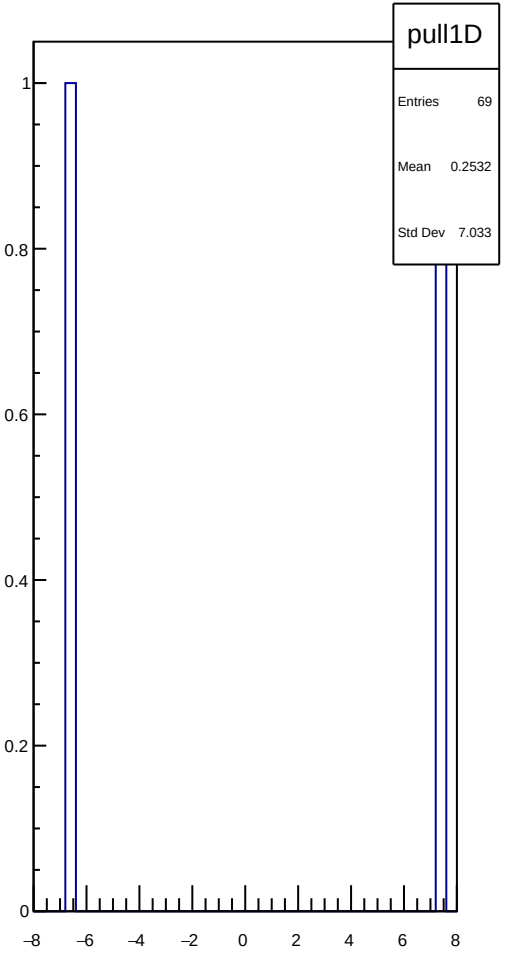

pull1D
Entries 69
Mean −1.119
Std Dev 4.078

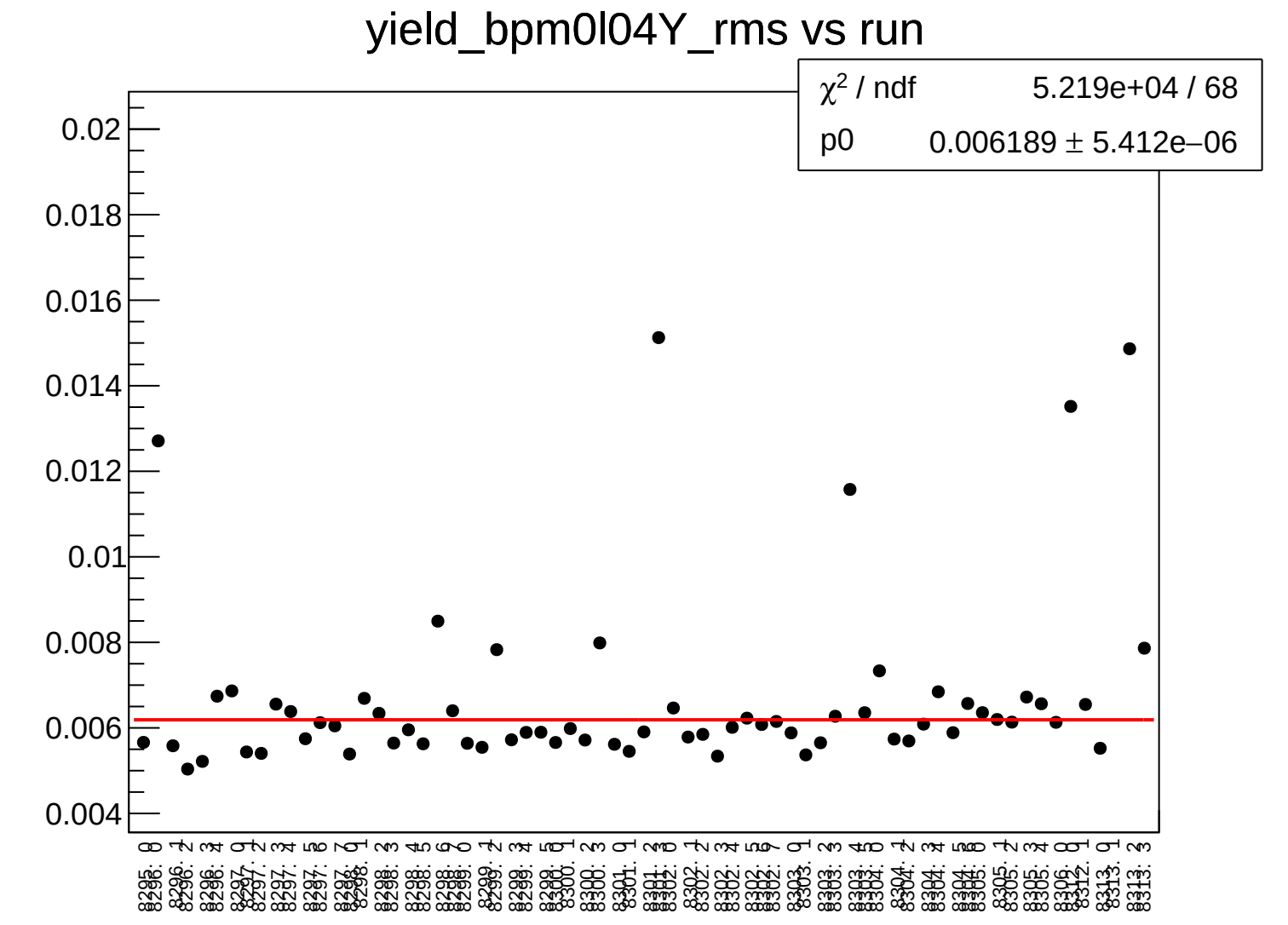

yield_bpm0l03Y_rms vs run
χ² / ndf 9.869e+05 / 68
p0 0.01735 ± 2.841e–05
1.2
1
0.8
0.6
0.4
0.2

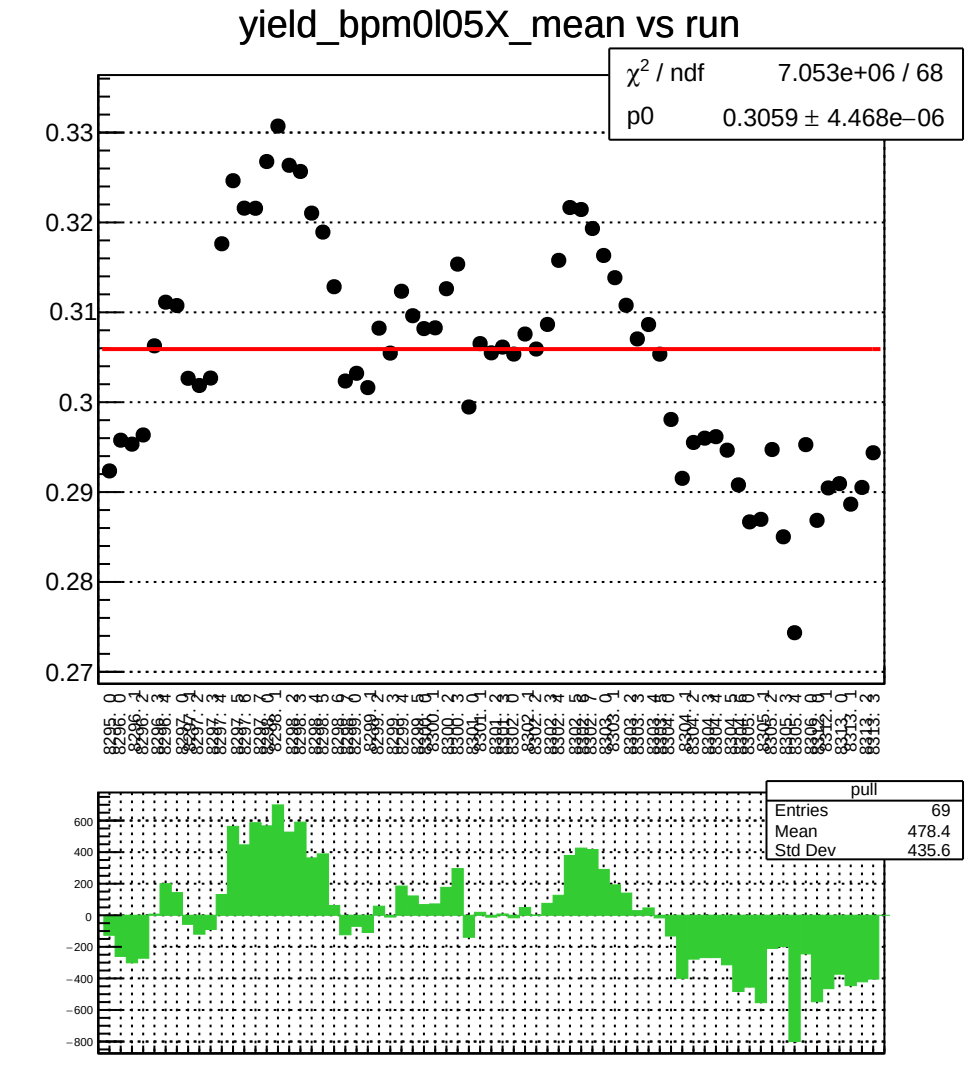

yield_bpm0l04X_mean vs run
χ² / ndf 7.124e+06 / 68
p0 −2.269 ± 2.948e−05
pull
Entries 69
Mean 1779
Std Dev 1745
pull1D
Entries 69
Mean 0
Std Dev 0

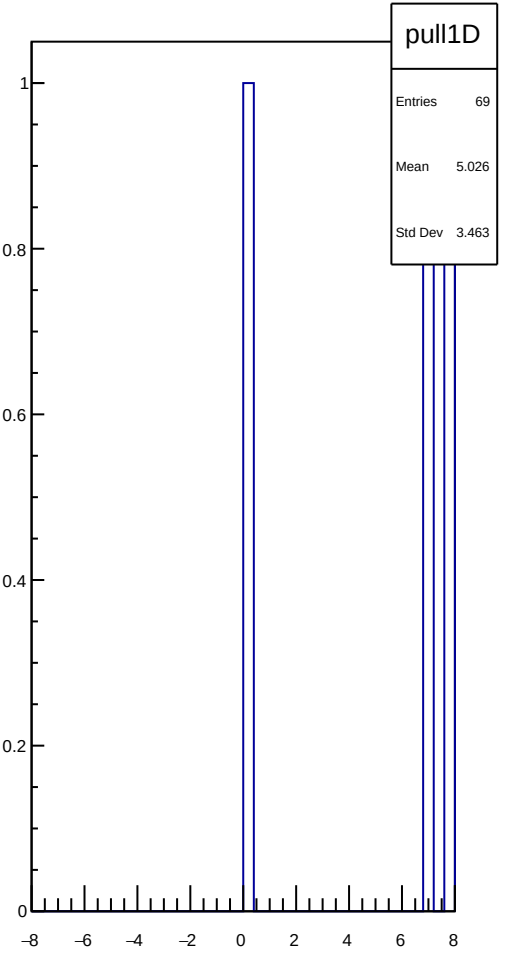

yield_bpm0l04X_rms vs run
χ² / ndf 7.44e+04 / 68
p0 0.02364 ± 2.085e−05
0.1
0.08
0.06
0.04
0.02

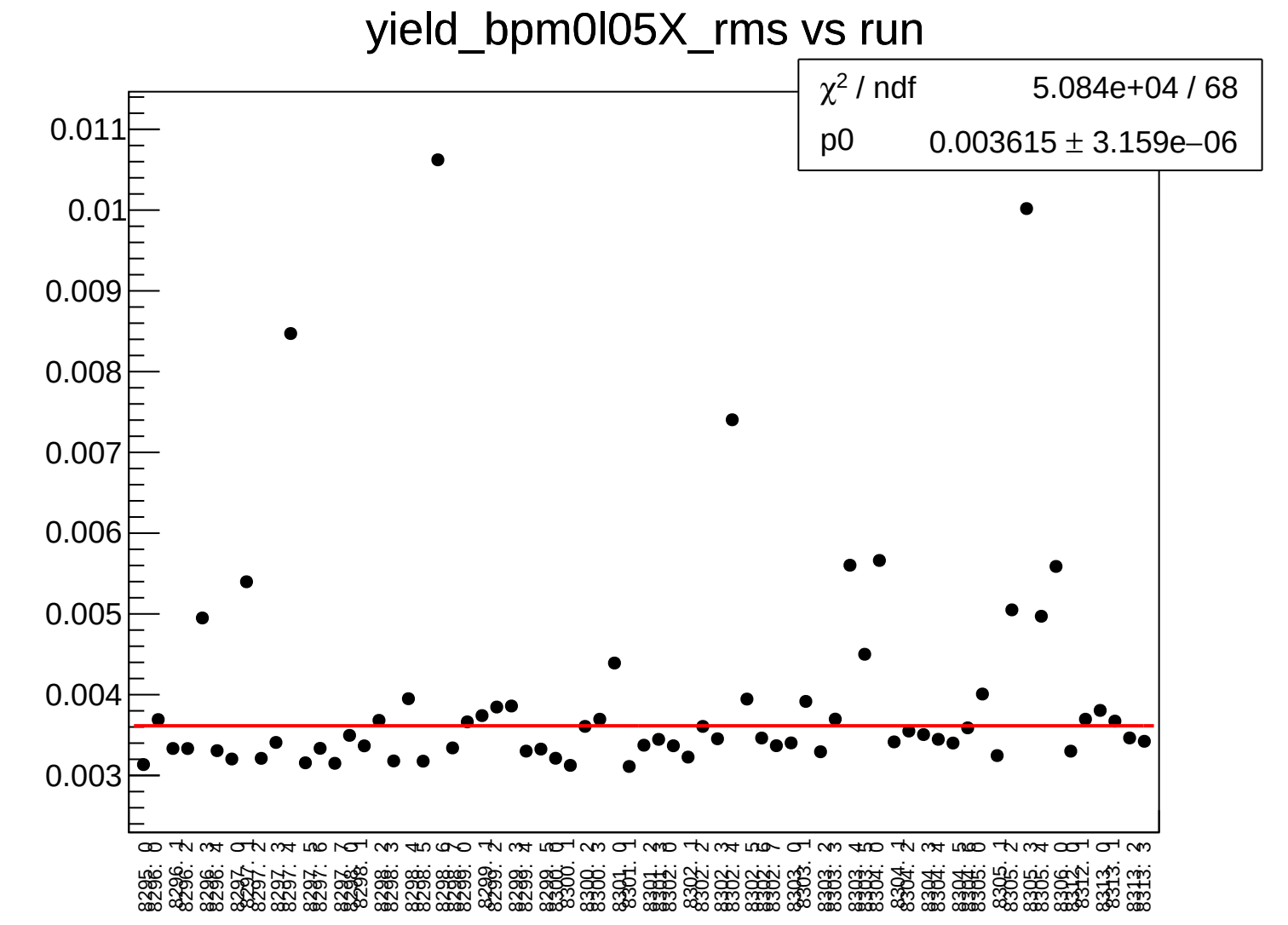

yield_bpm0l04Y_mean vs run
χ² / ndf 4.605e+06 / 68
p0 0.8357 ± 7.654e−06
0.86
0.84
0.82
0.8
0.78
pull
Entries 69
Mean 58.42
Std Dev 97.88
400
200
0
−200
−400
−600
−800

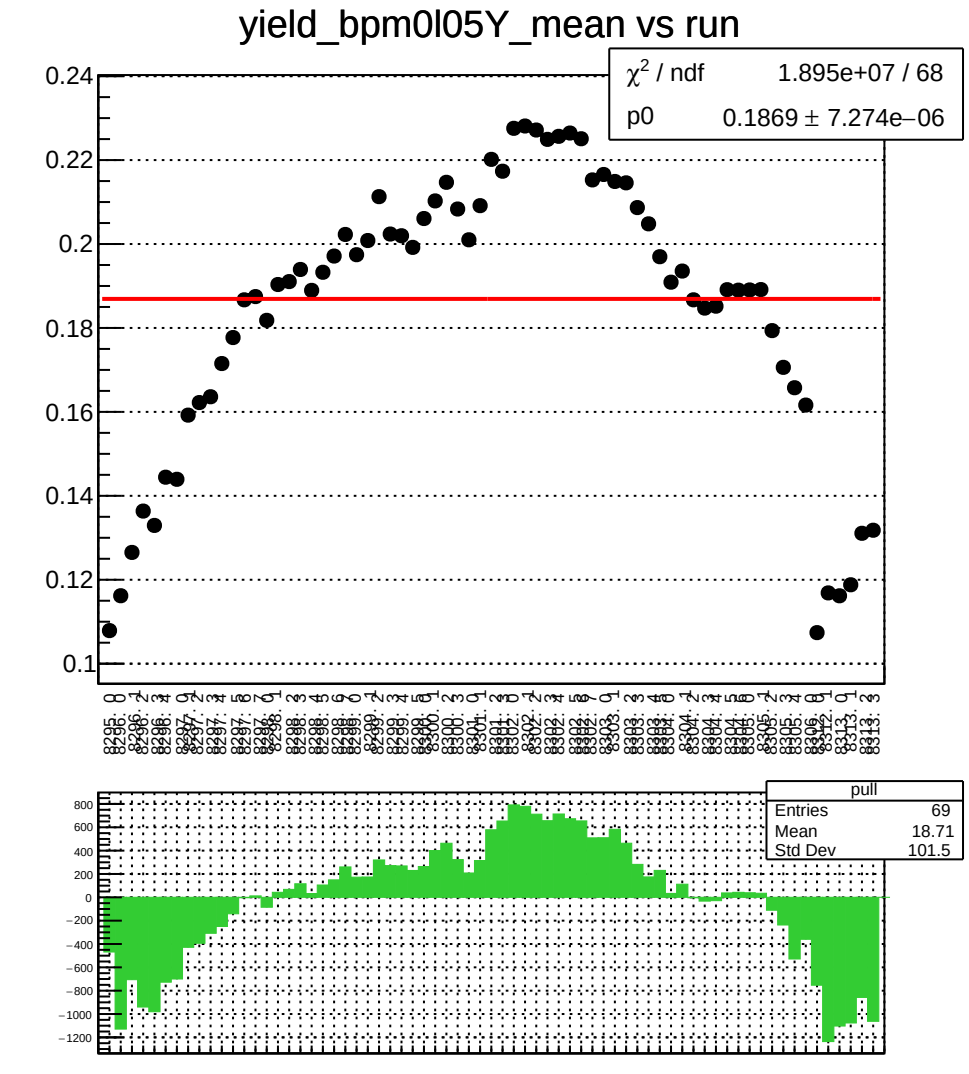

pull1D
Entries 69
Mean 0.2532
Std Dev 7.033
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

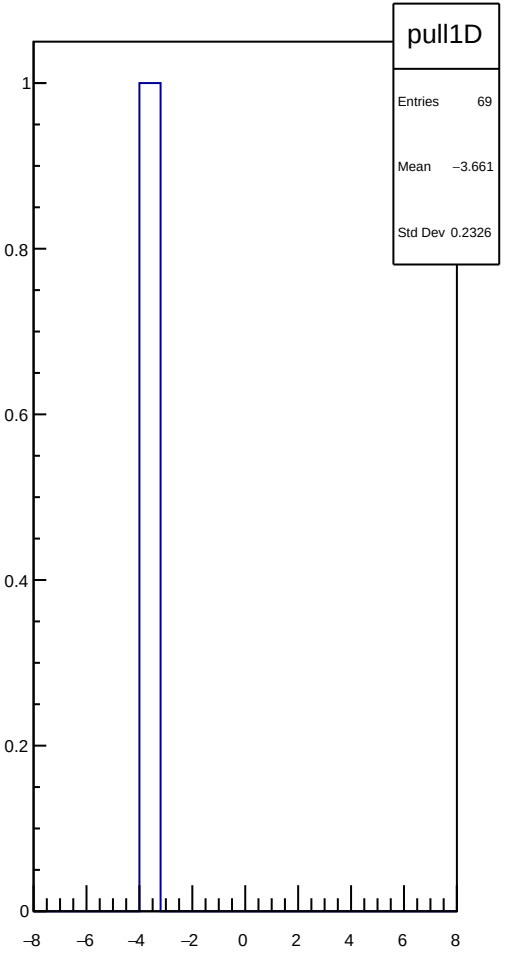

yield_bpm0l04Y_rms vs run
χ² / ndf 5.219e+04 / 68
p0 0.006189 ± 5.412e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

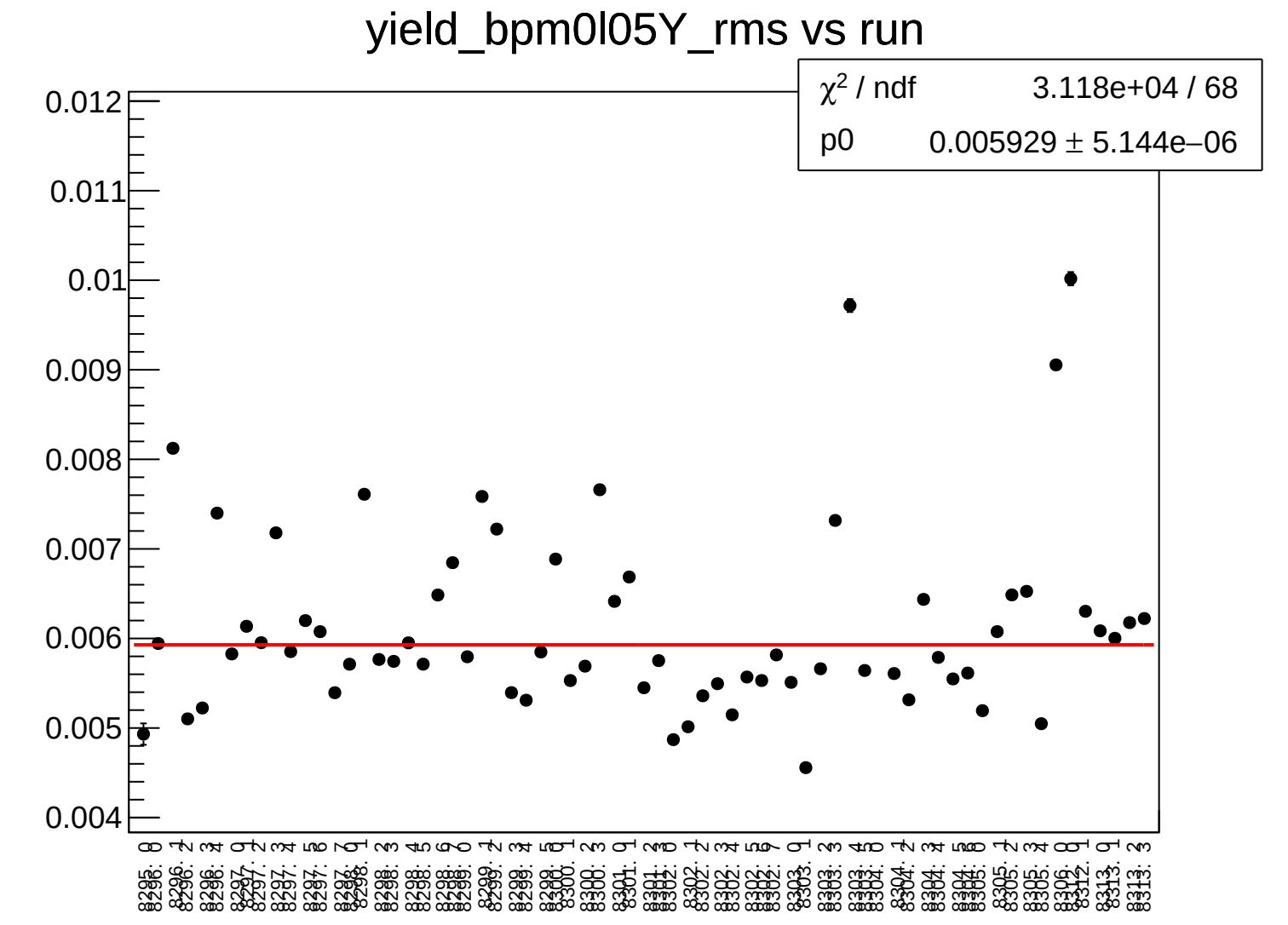

yield_bpm0l05X_mean vs run
χ² / ndf 7.053e+06 / 68
p0 0.3059 ± 4.468e−06
0.33
0.32
0.31
0.3
0.29
0.28
0.27
pull
Entries 69
Mean 478.4
Std Dev 435.6
600
400
200
0
−200
−400
−600
−800

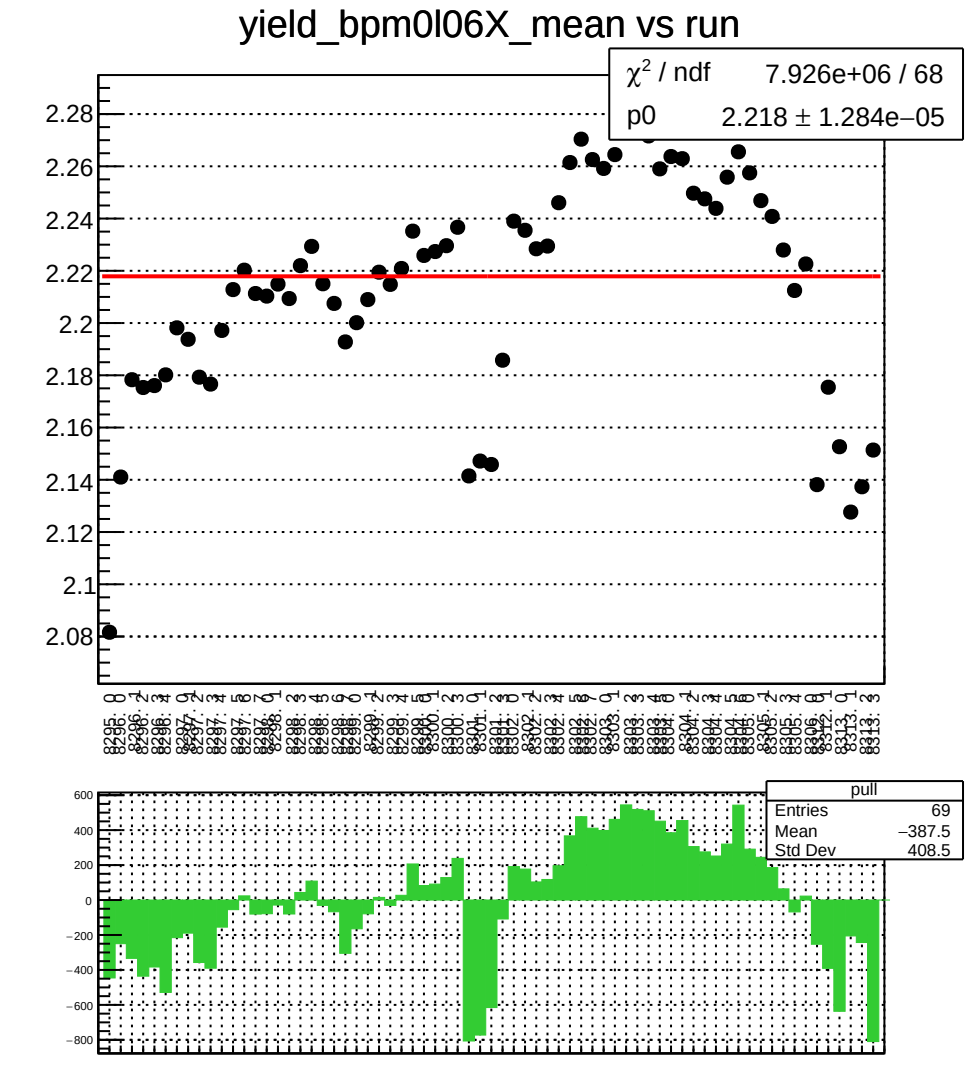

pull1D
Entries 69
Mean 5.026
Std Dev 3.463
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

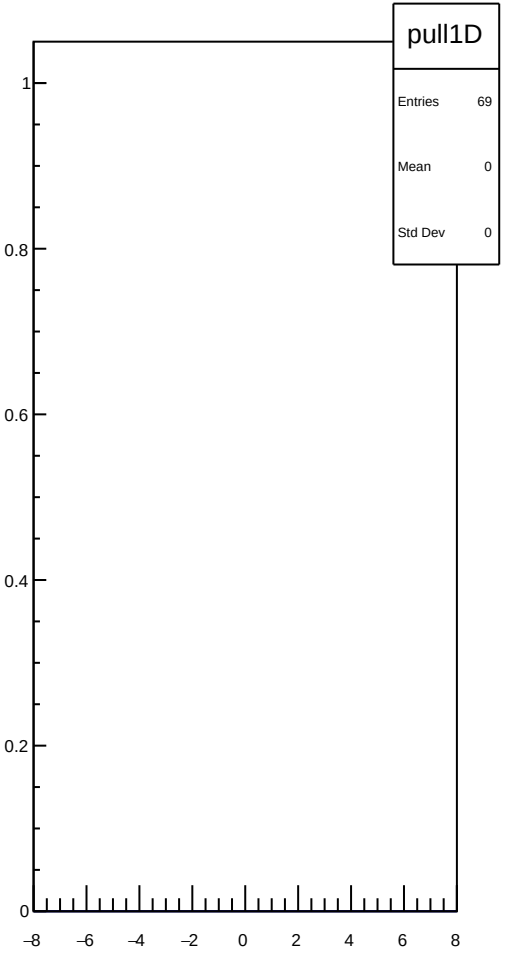

yield_bpm0l05X_rms vs run
χ² / ndf 5.084e+04 / 68
p0 0.003615 ± 3.159e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

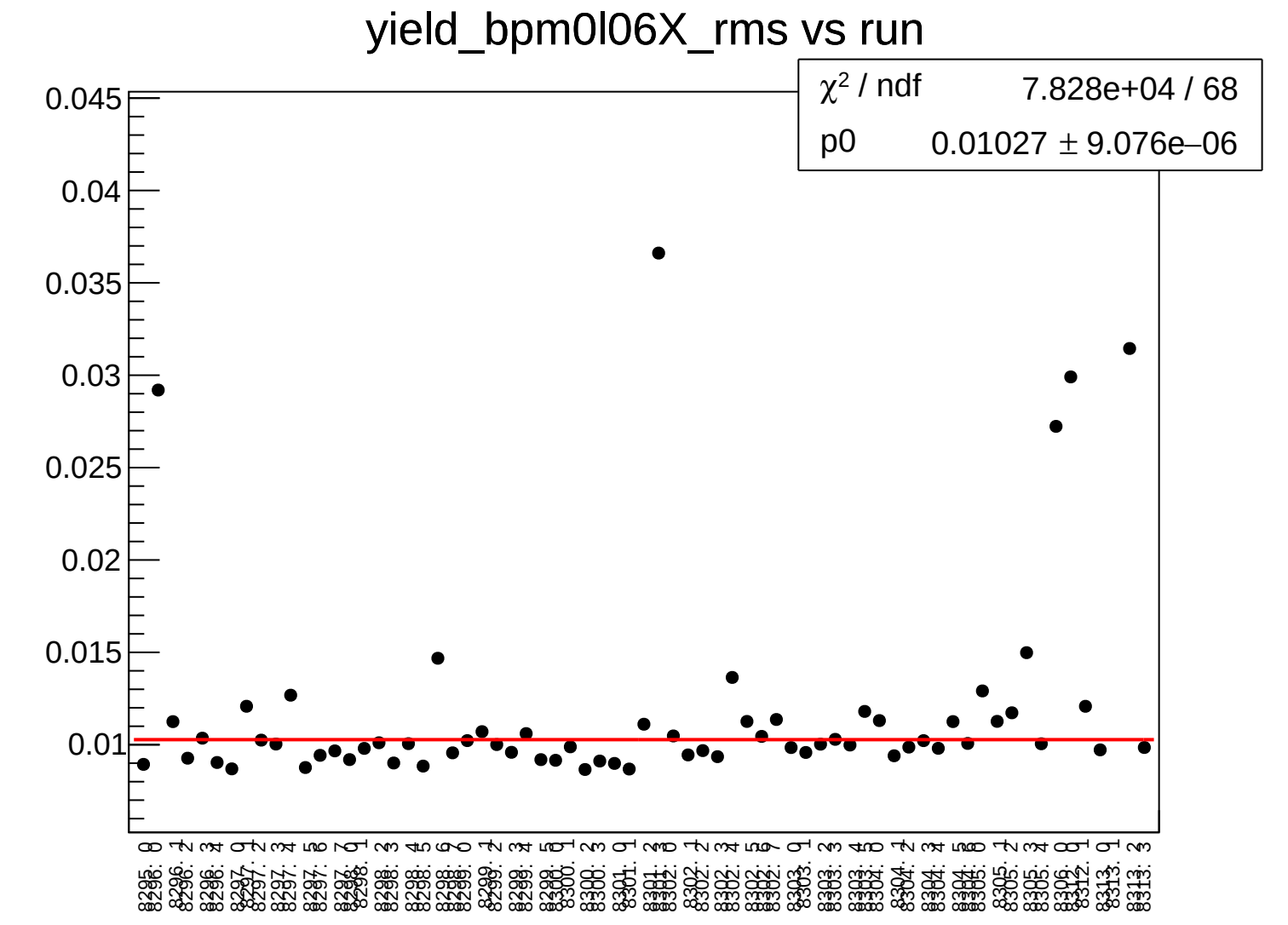

yield_bpm0l05Y_mean vs run
χ² / ndf 1.895e+07 / 68
p0 0.1869 ± 7.274e−06
pull
Entries 69
Mean 18.71
Std Dev 101.5

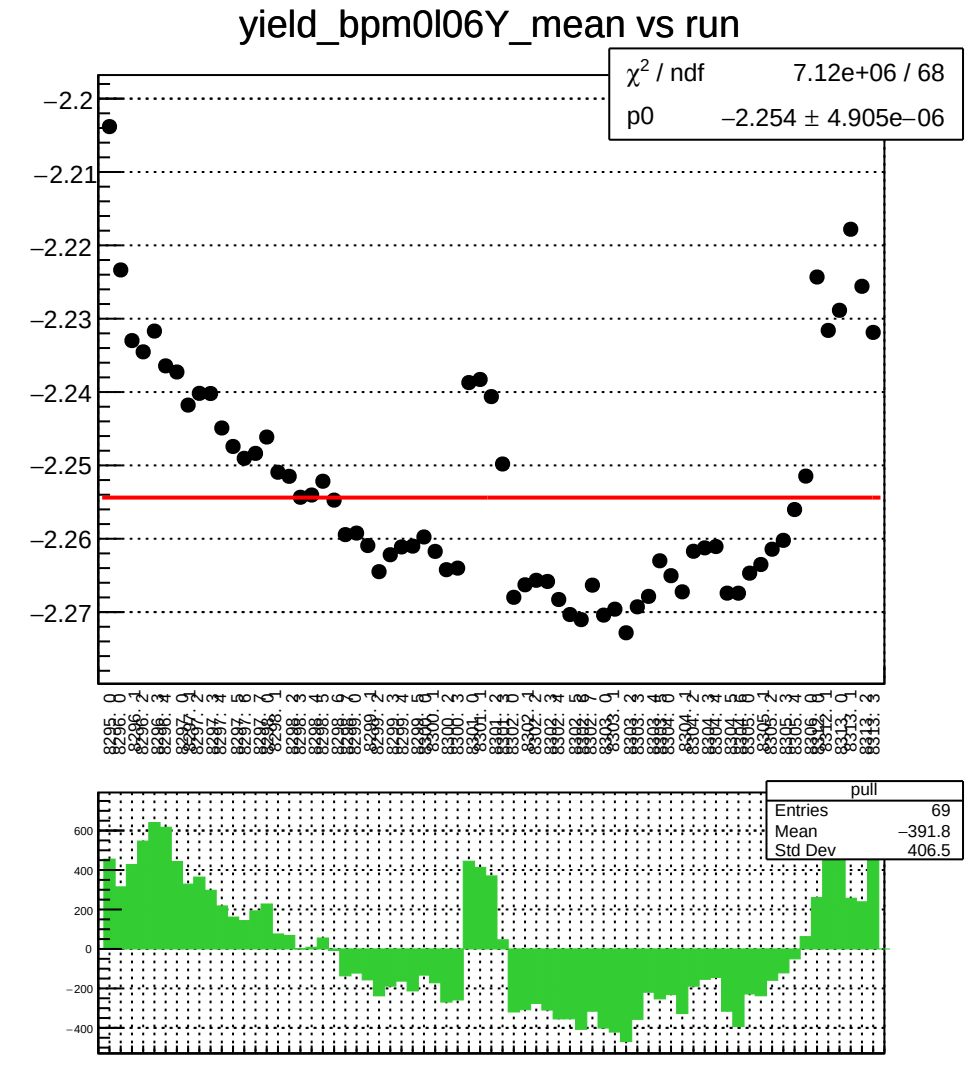

pull1D
Entries 69
Mean −3.661
Std Dev 0.2326

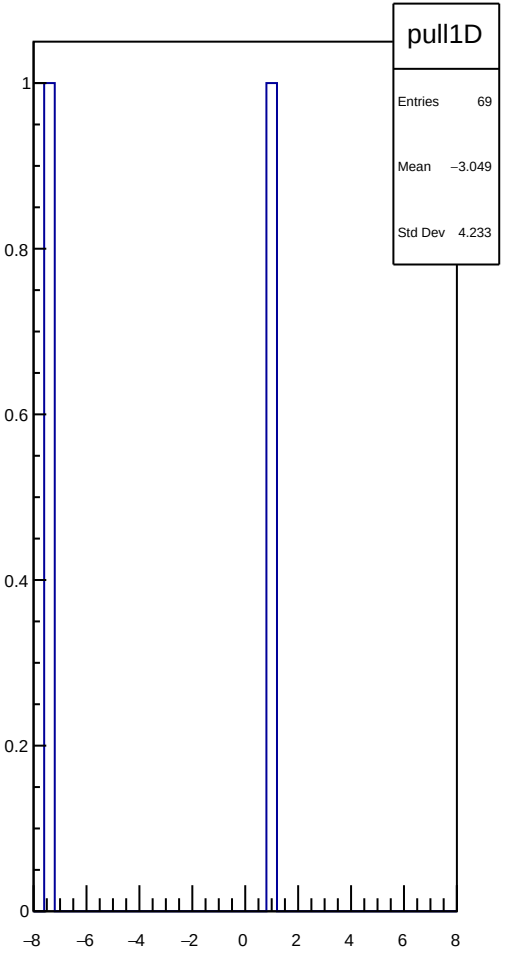

yield_bpm0l05Y_rms vs run
χ² / ndf 3.118e+04 / 68
p0 0.005929 ± 5.144e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

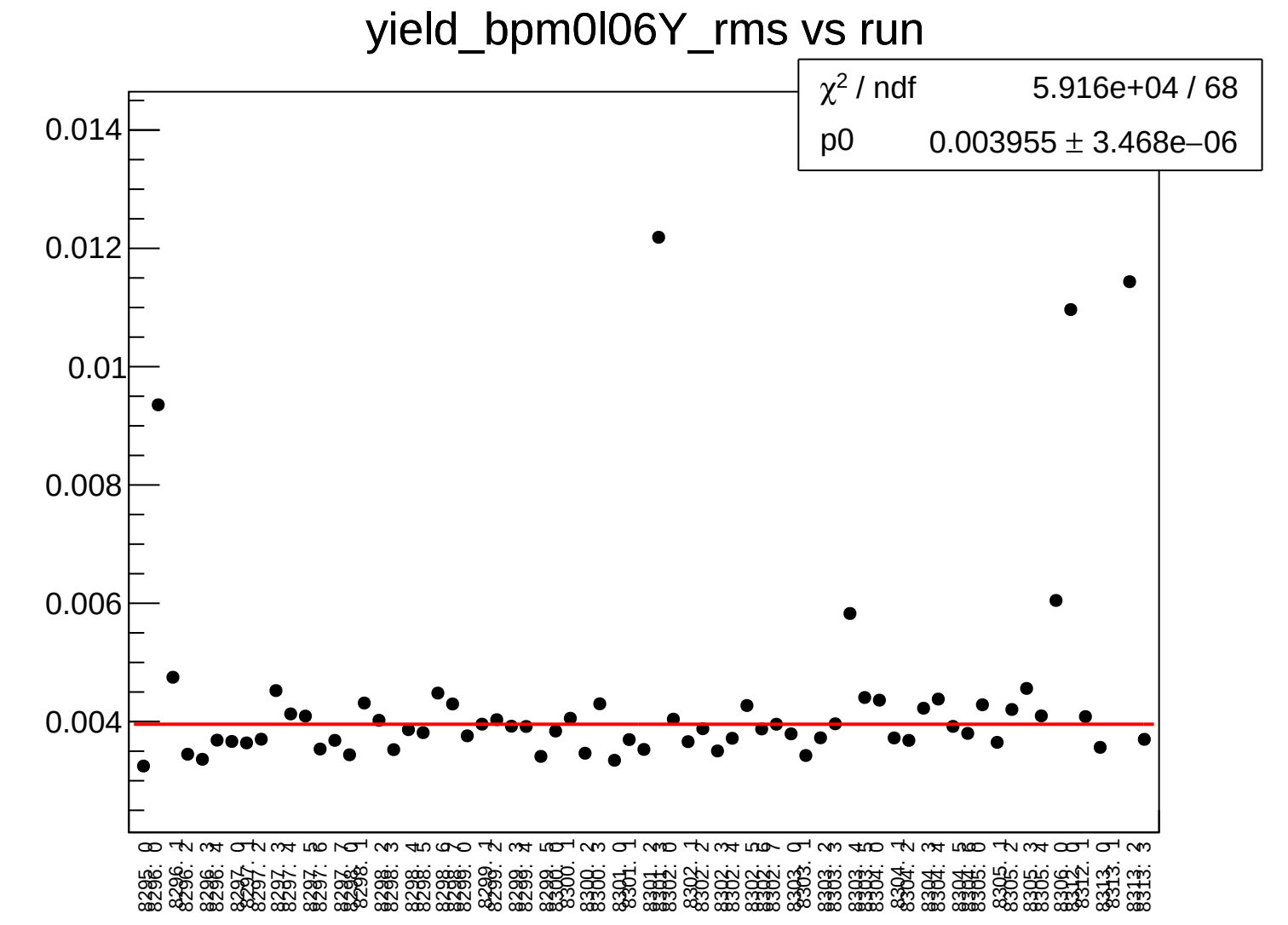

yield_bpm0l06X_mean vs run
χ² / ndf 7.926e+06 / 68
p0 2.218 ± 1.284e−05
pull
Entries 69
Mean −387.5
Std Dev 408.5

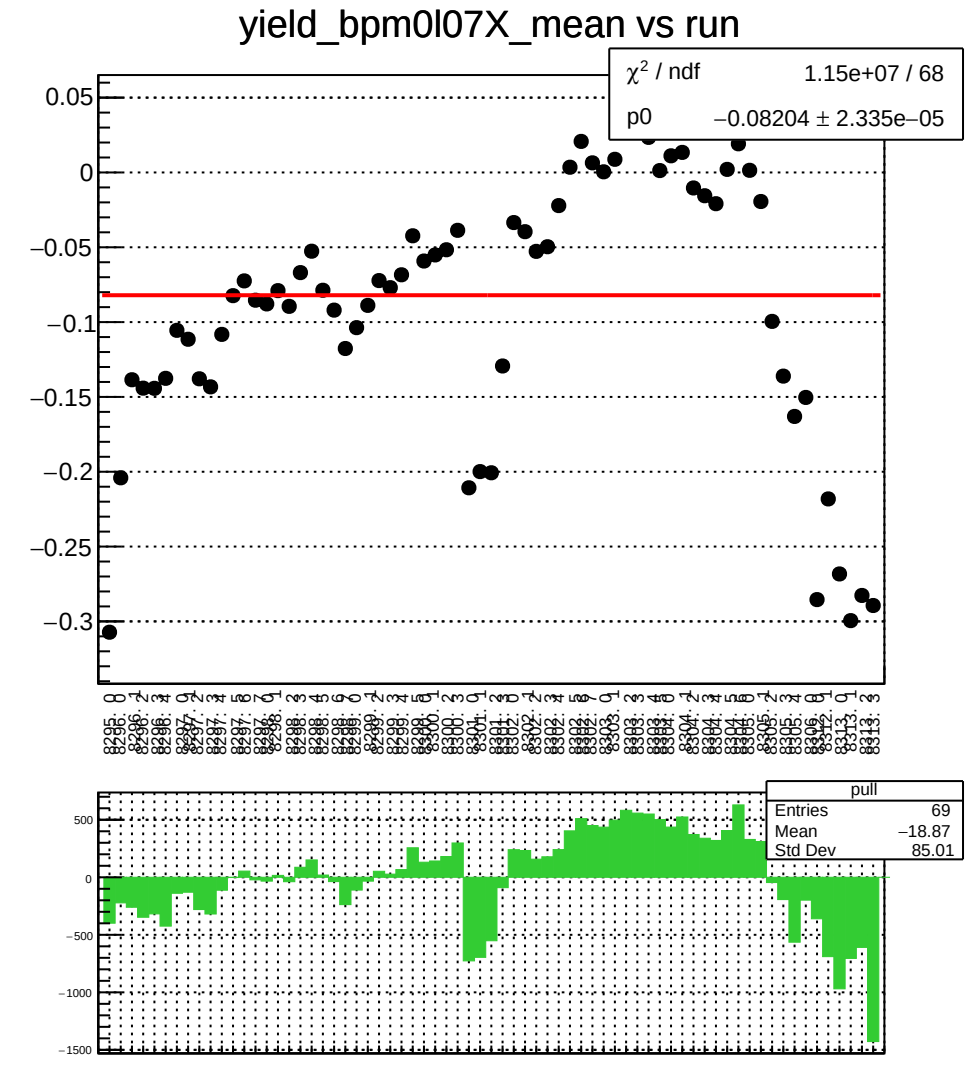

pull1D
Entries 69
Mean 0
Std Dev 0

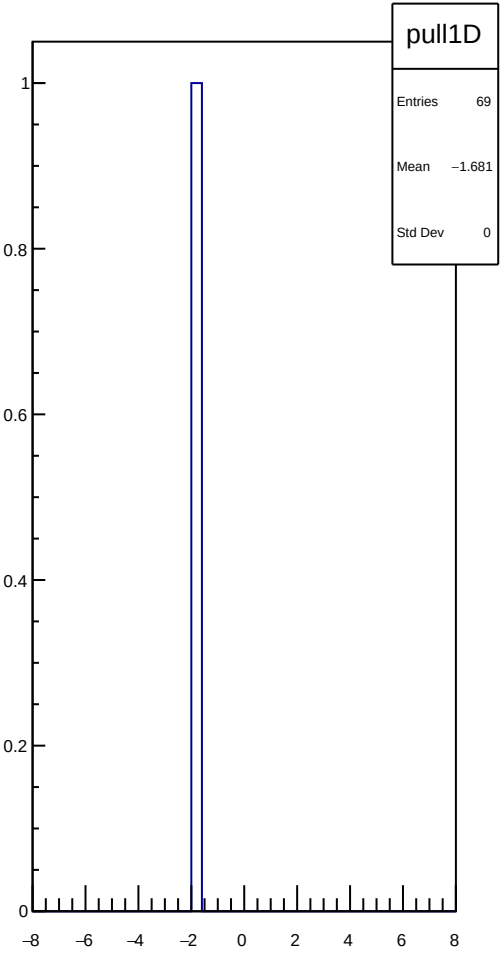

yield_bpm0l06X_rms vs run
χ² / ndf 7.828e+04 / 68
p0 0.01027 ± 9.076e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

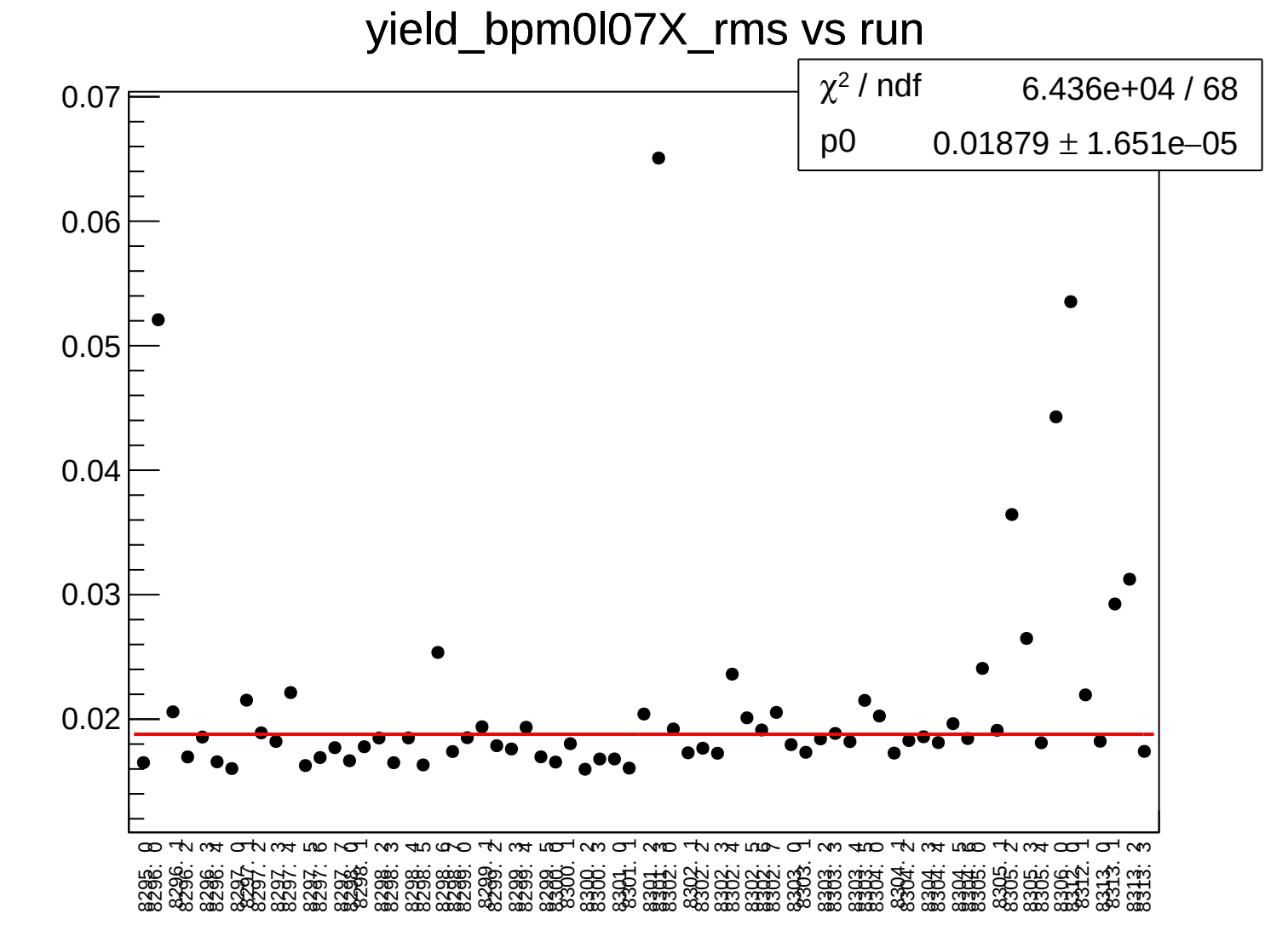

yield_bpm0l06Y_mean vs run
χ² / ndf 7.12e+06 / 68
p0 −2.254 ± 4.905e−06
−2.2
−2.21
−2.22
−2.23
−2.24
−2.25
−2.26
−2.27
pull
Entries 69
Mean −391.8
Std Dev 406.5
600
400
200
0
−200
−400

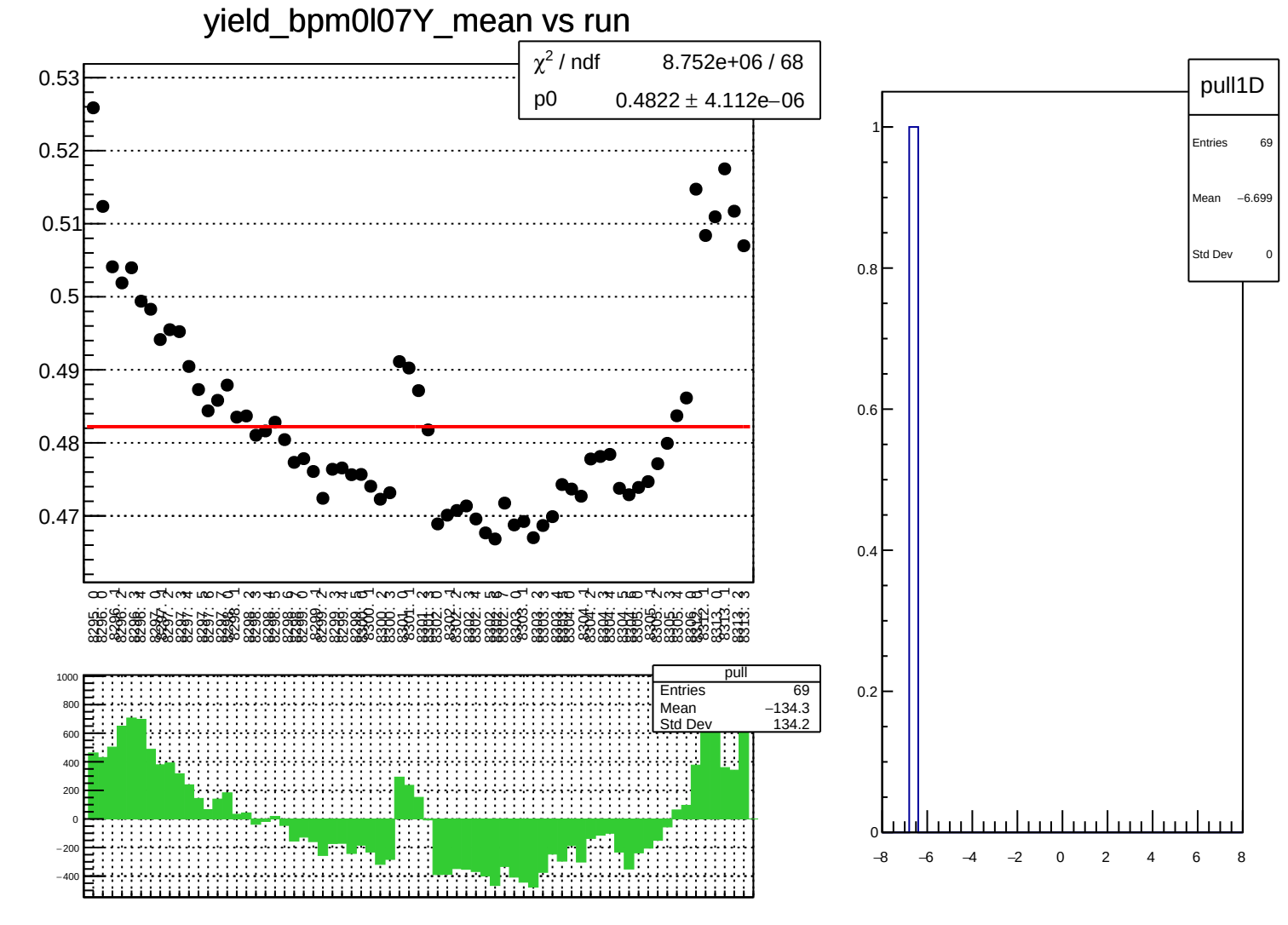

pull1D
Entries 69
Mean −3.049
Std Dev 4.233
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

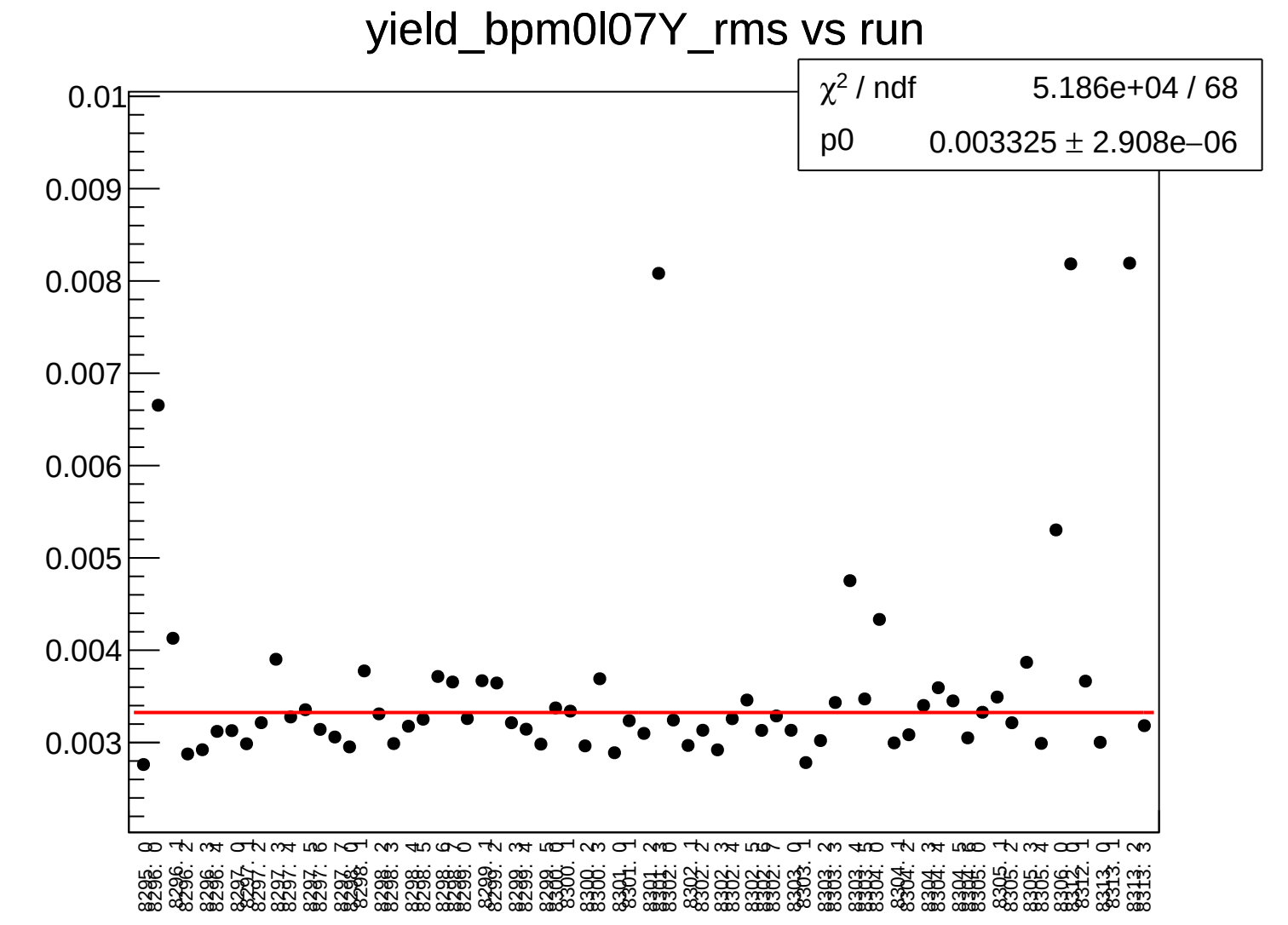

yield_bpm0l06Y_rms vs run
χ^2 / ndf 5.916e+04 / 68
p0 0.003955 ± 3.468e−06
0.014
0.012
0.01
0.008
0.006
0.004

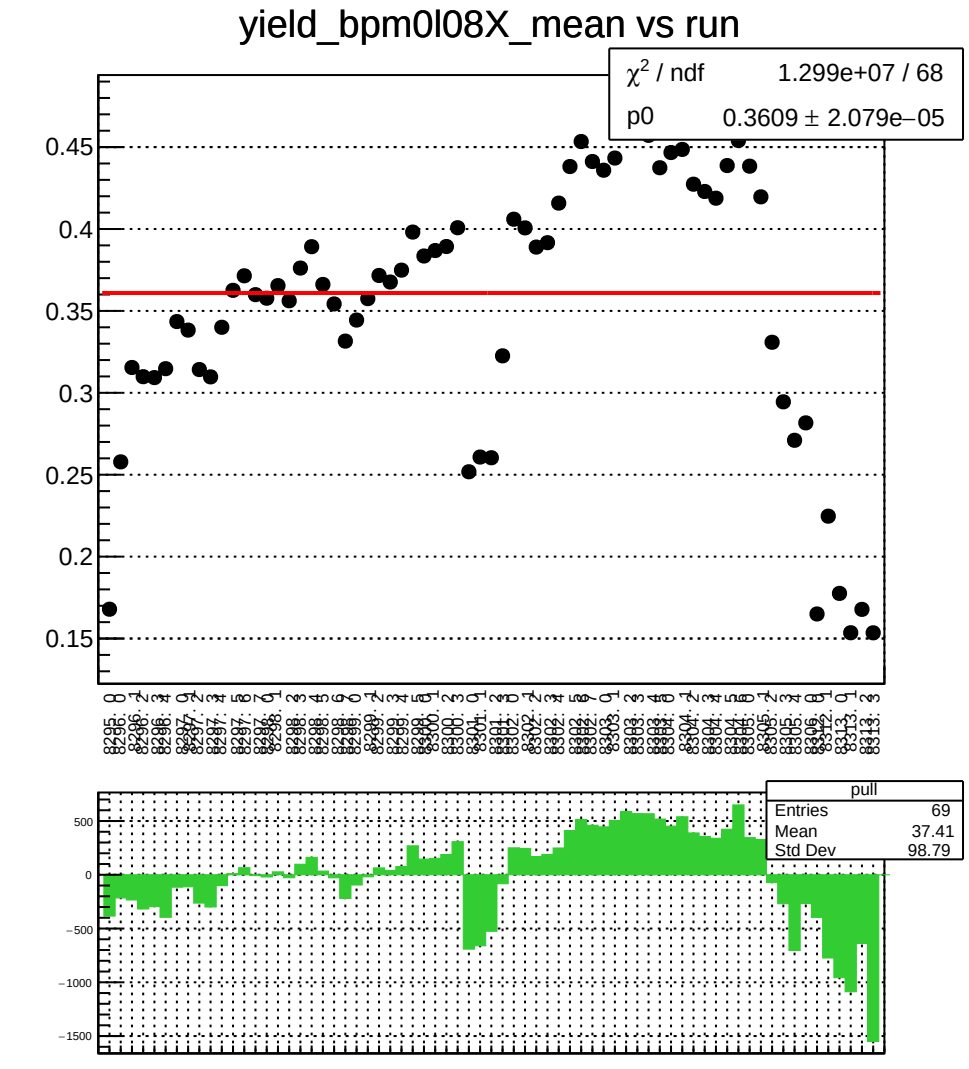

yield_bpm0l07X_mean vs run
χ² / ndf 1.15e+07 / 68
p0 −0.08204 ± 2.335e−05
pull
Entries 69
Mean −18.87
Std Dev 85.01

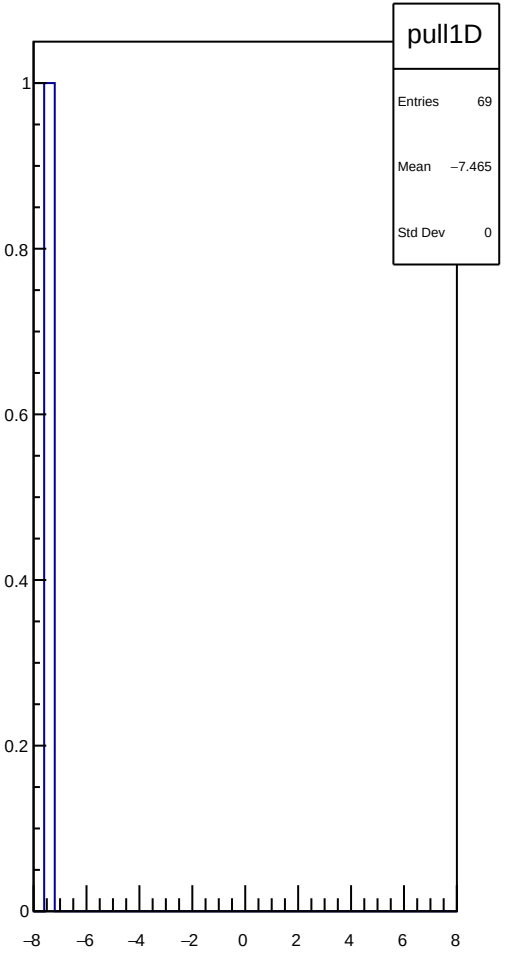

pull1D
Entries 69
Mean −1.681
Std Dev 0

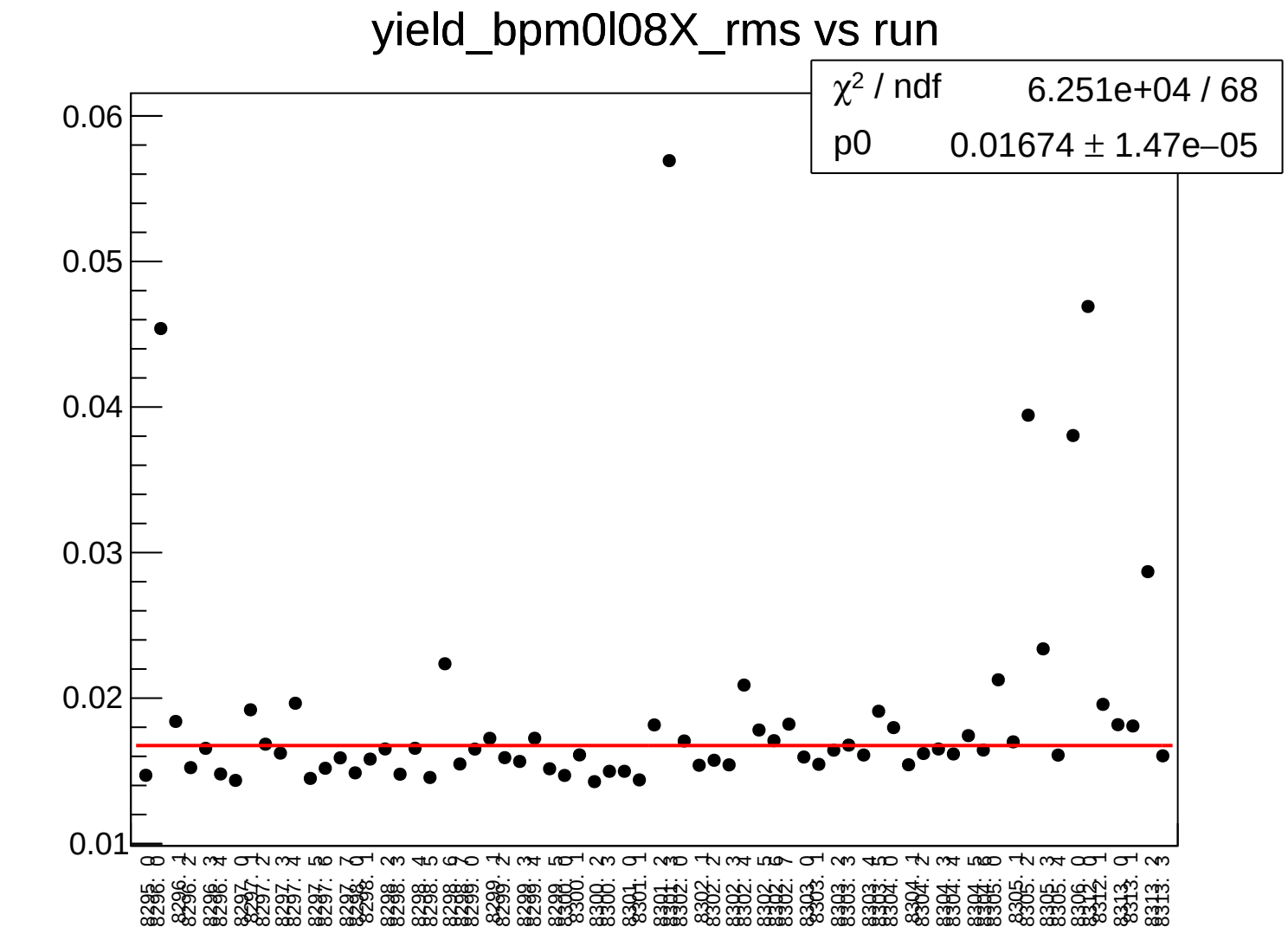

yield_bpm0l07X_rms vs run
χ² / ndf 6.436e+04 / 68
p0 0.01879 ± 1.651e−05
0.07
0.06
0.05
0.04
0.03
0.02

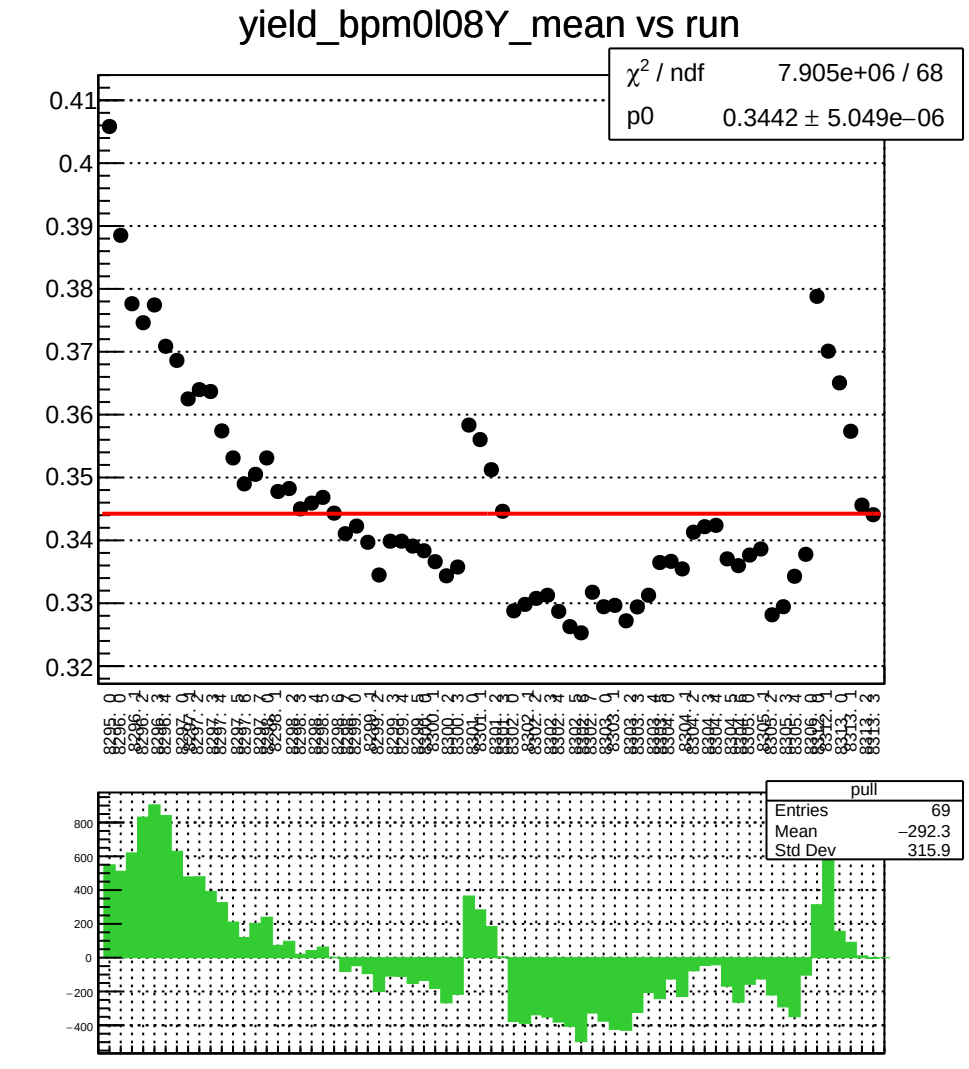

yield_bpm0l07Y_mean vs run
χ² / ndf 8.752e+06 / 68
p0 0.4822 ± 4.112e−06
pull
Entries 69
Mean −134.3
Std Dev 134.2
pull1D
Entries 69
Mean −6.699
Std Dev 0

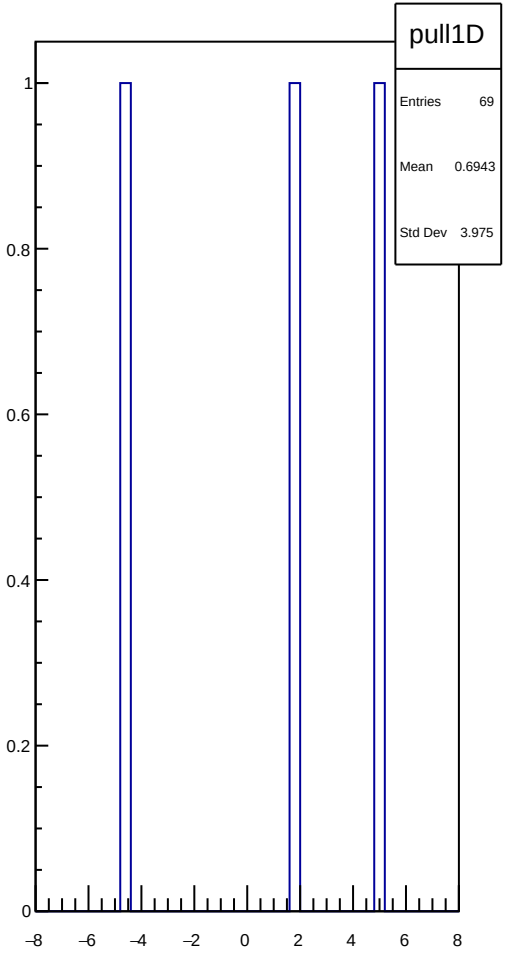

yield_bpm0l07Y_rms vs run
χ² / ndf 5.186e+04 / 68
p0 0.003325 ± 2.908e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

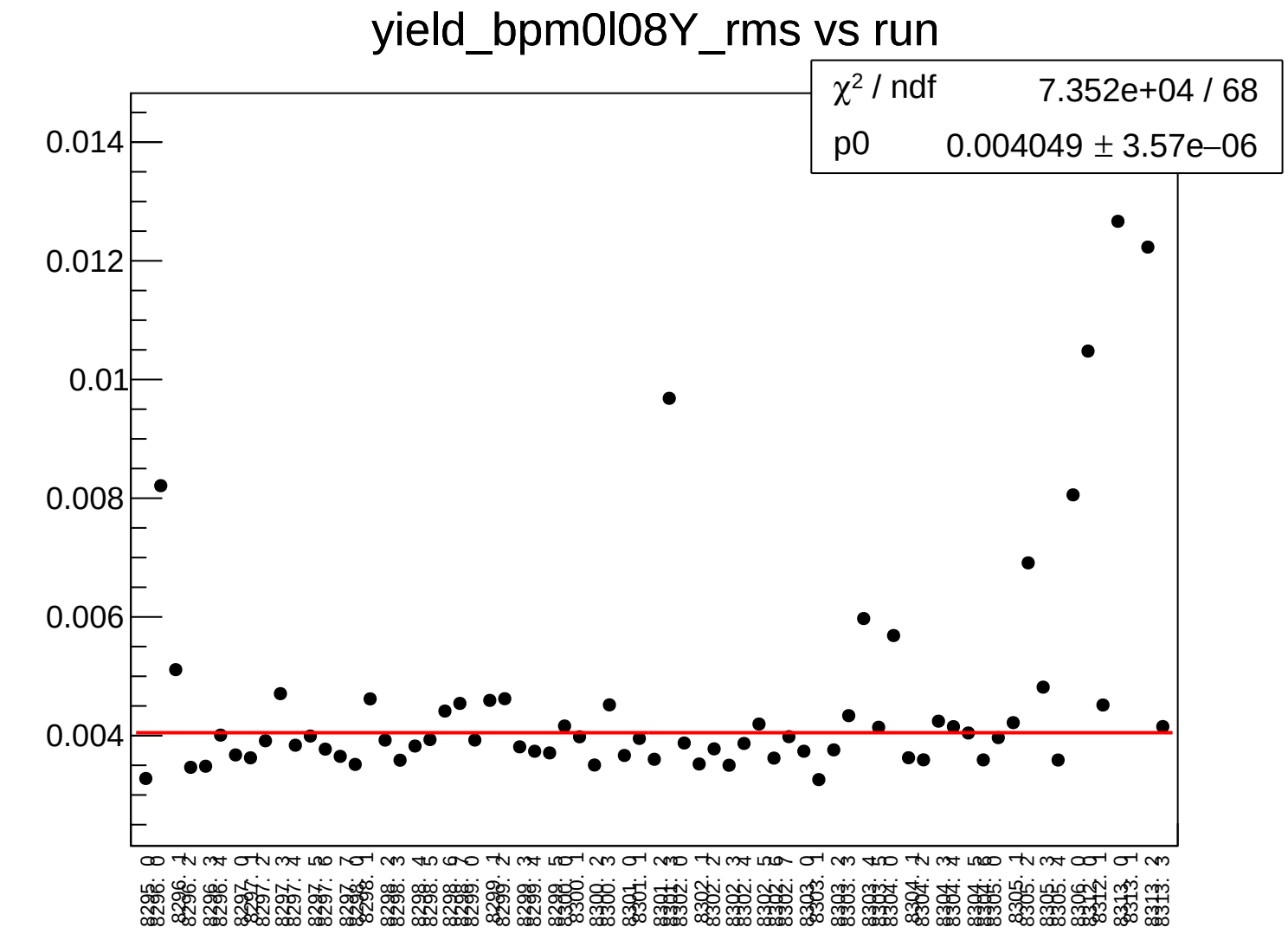

yield_bpm0l08X_mean vs run
χ² / ndf 1.299e+07 / 68
p0 0.3609 ± 2.079e−05
pull
Entries 69
Mean 37.41
Std Dev 98.79

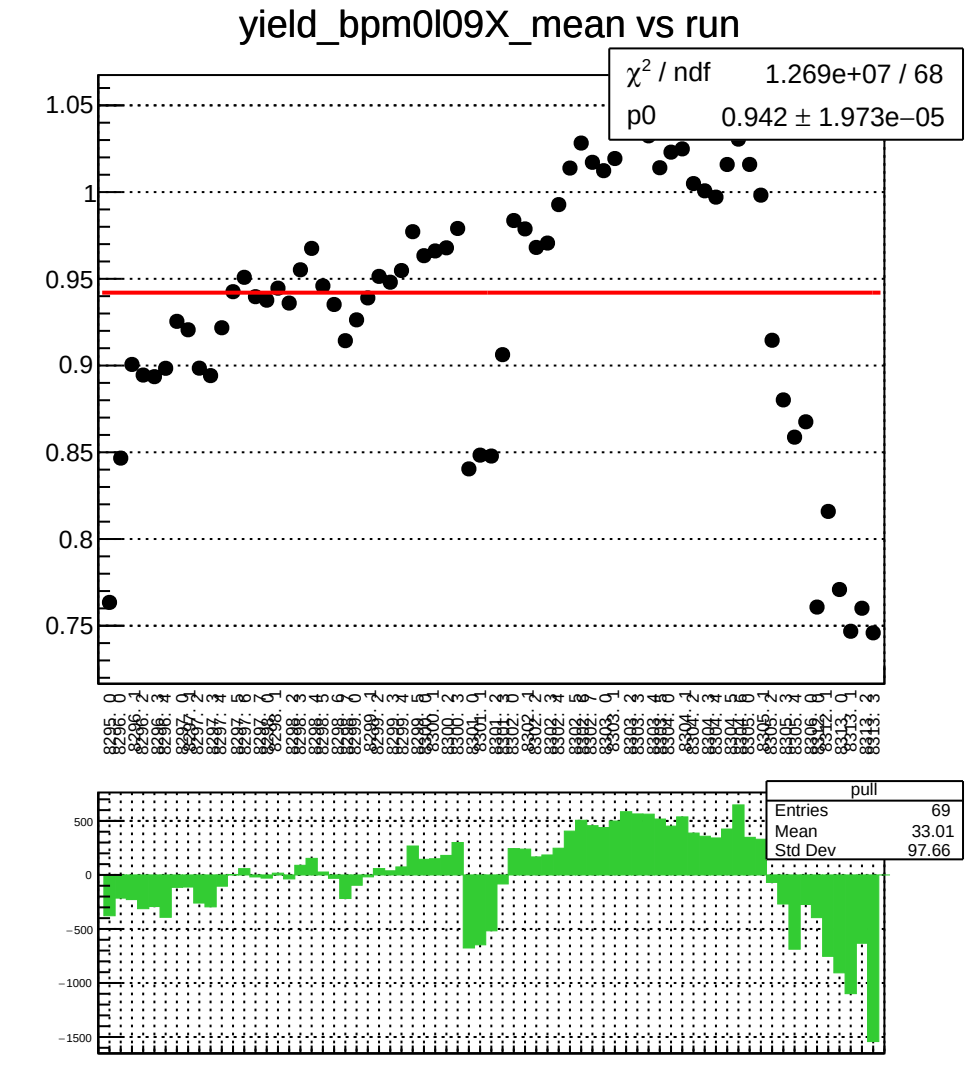

pull1D
Entries 69
Mean −7.465
Std Dev 0

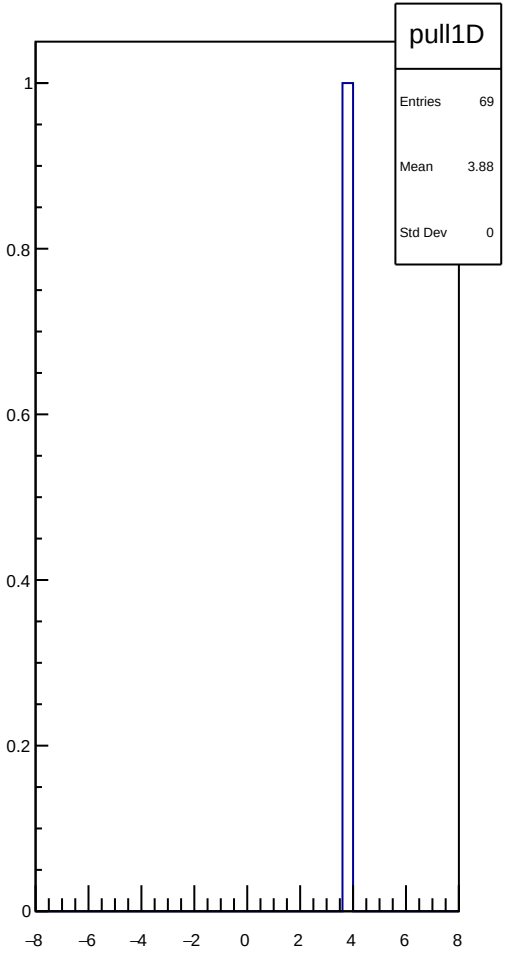

yield_bpm0l08X_rms vs run
χ² / ndf 6.251e+04 / 68
p0 0.01674 ± 1.47e−05
0.06
0.05
0.04
0.03
0.02
0.01

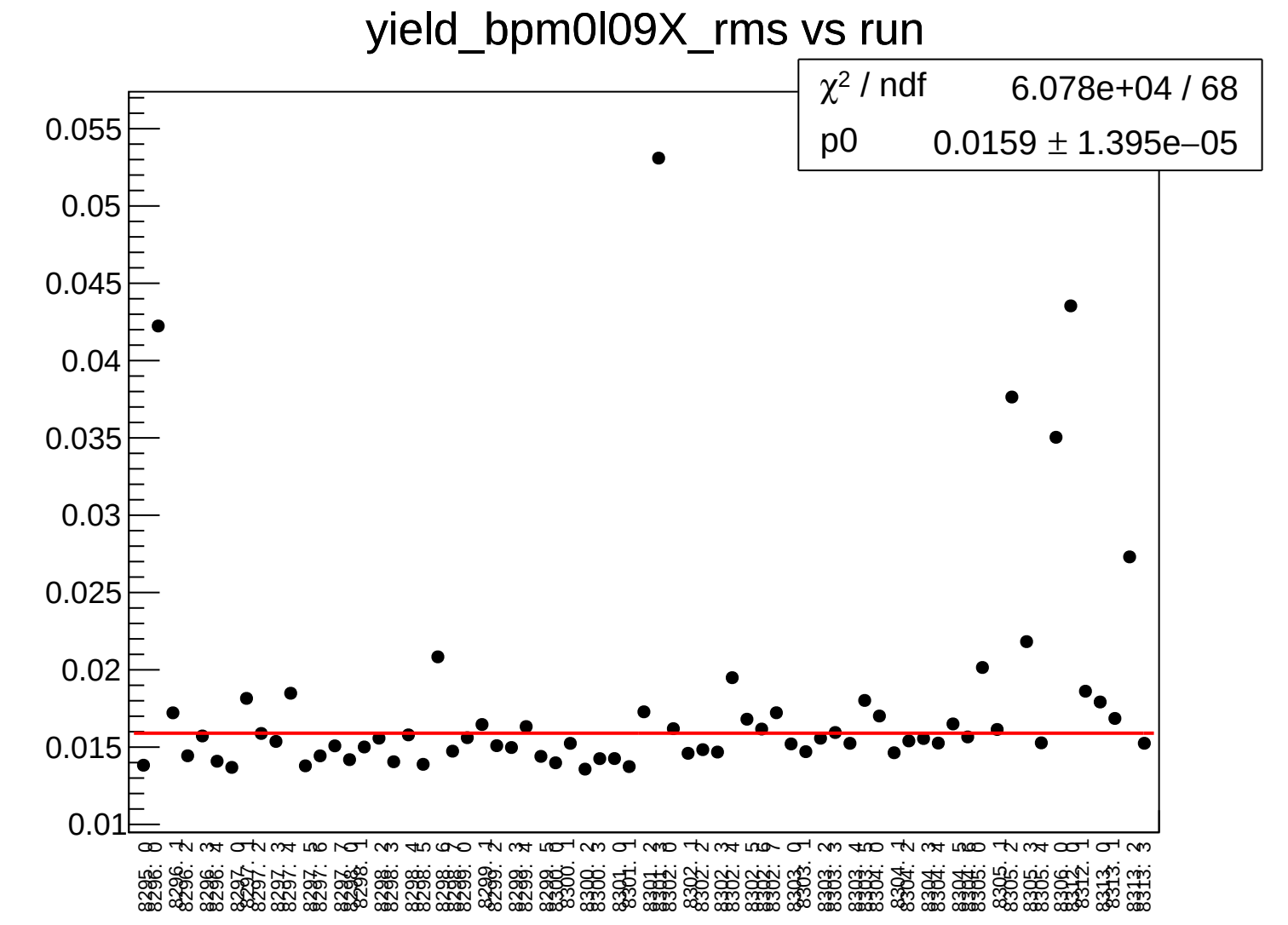

yield_bpm0l08Y_mean vs run
χ² / ndf 7.905e+06 / 68
p0 0.3442 ± 5.049e−06
0.41
0.4
0.39
0.38
0.37
0.36
0.35
0.34
0.33
0.32
pull
Entries 69
Mean −292.3
Std Dev 315.9
800
600
400
200
0
−200
−400

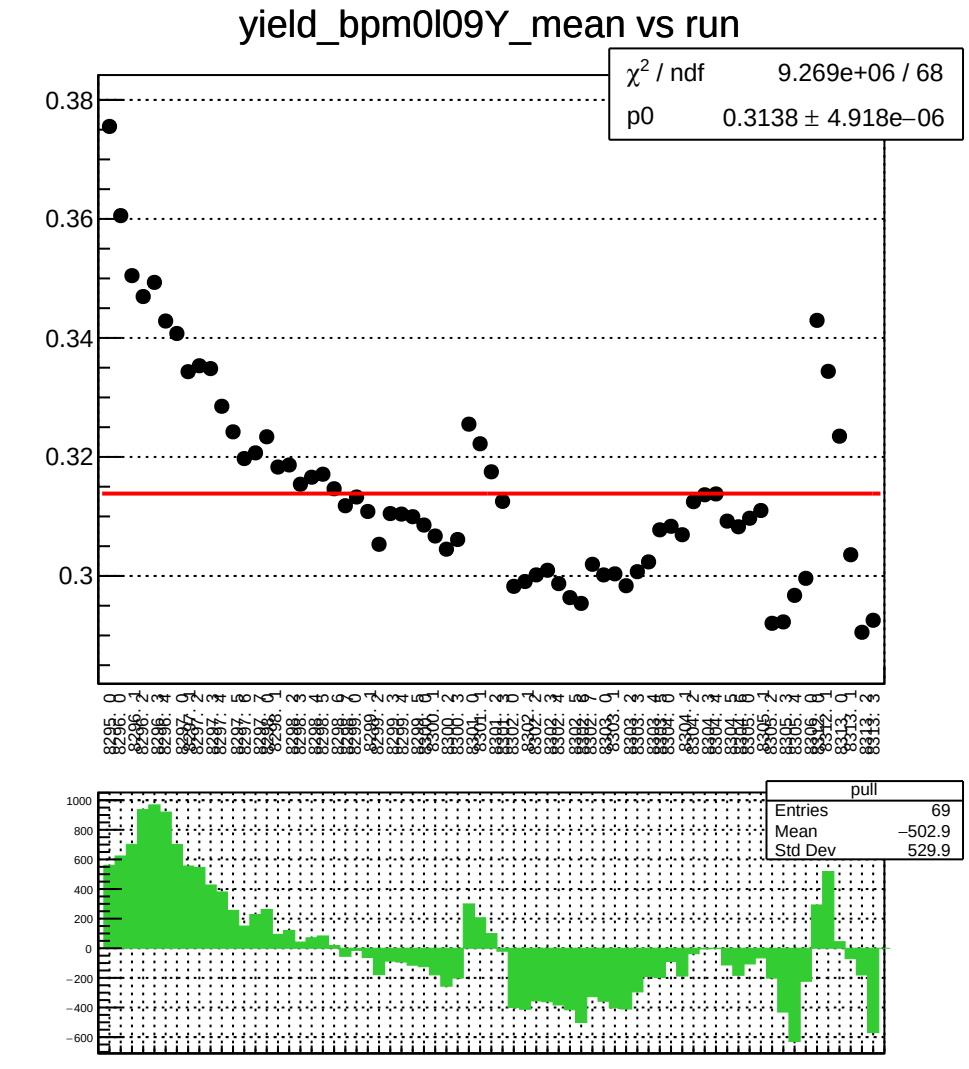

pull1D
Entries 69
Mean 0.6943
Std Dev 3.975
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

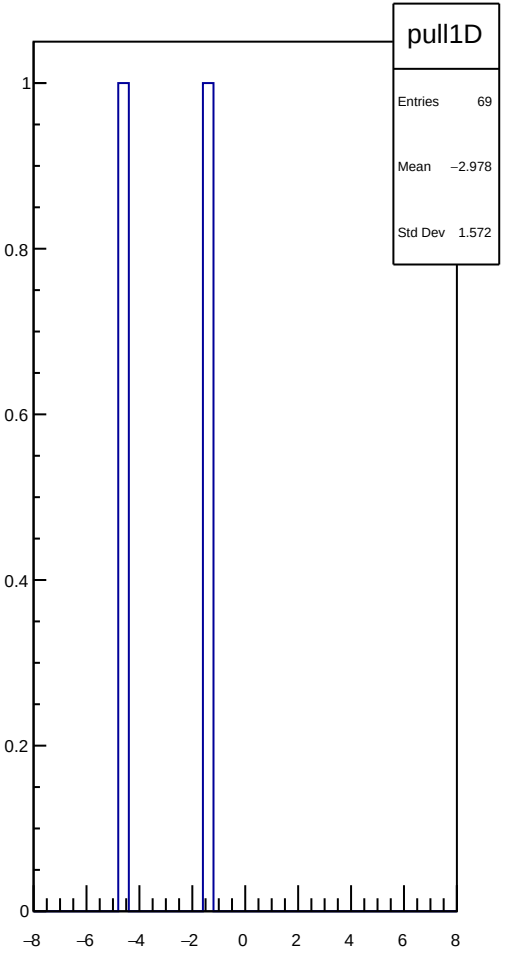

yield_bpm0l08Y_rms vs run
χ² / ndf 7.352e+04 / 68
p0 0.004049 ± 3.57e–06
0.014
0.012
0.01
0.008
0.006
0.004

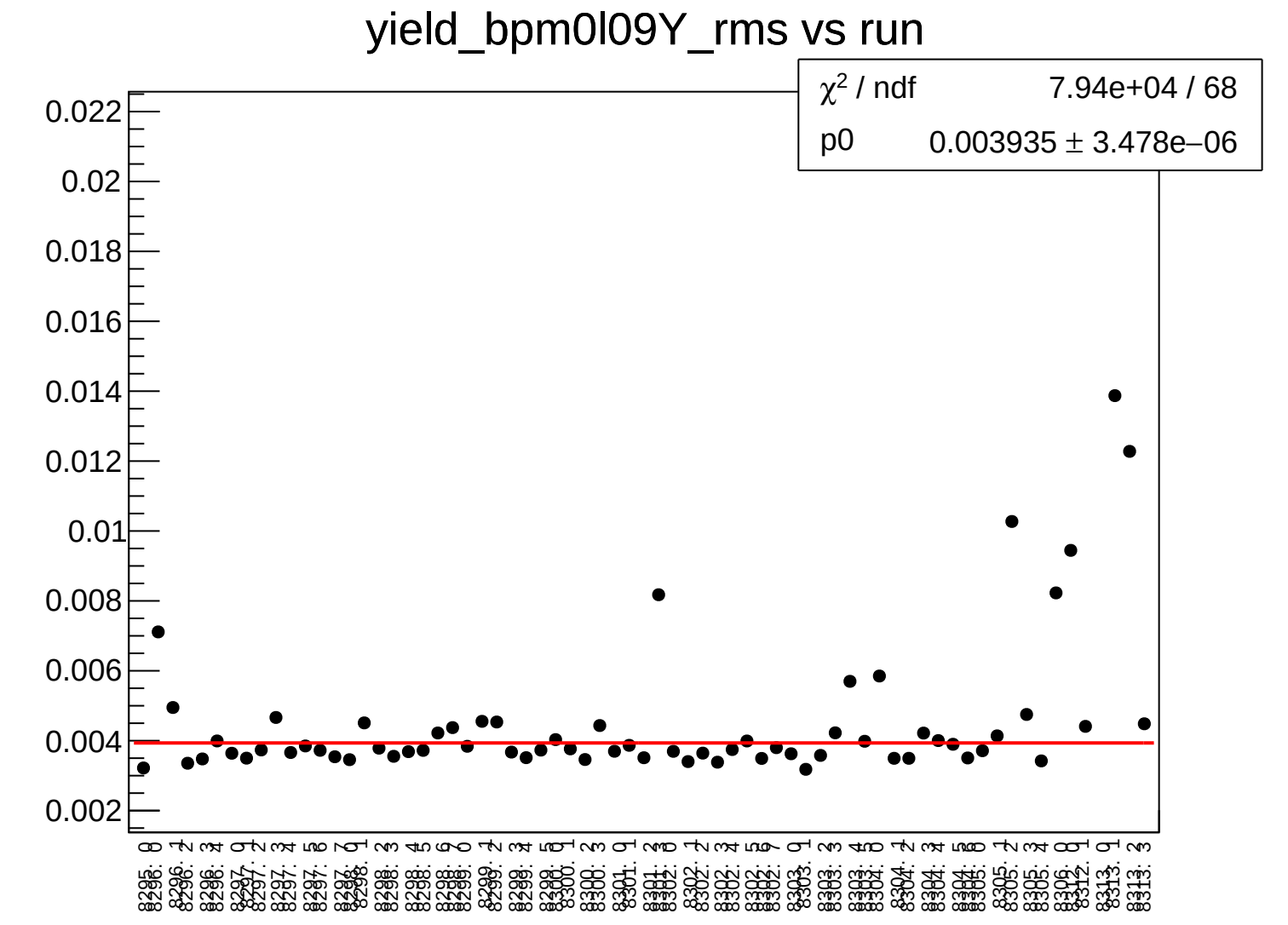

yield_bpm0l09X_mean vs run
χ² / ndf 1.269e+07 / 68
p0 0.942 ± 1.973e−05
1.05
1
0.95
0.9
0.85
0.8
0.75
pull
Entries 69
Mean 33.01
Std Dev 97.66
500
0
−500
−1000
−1500

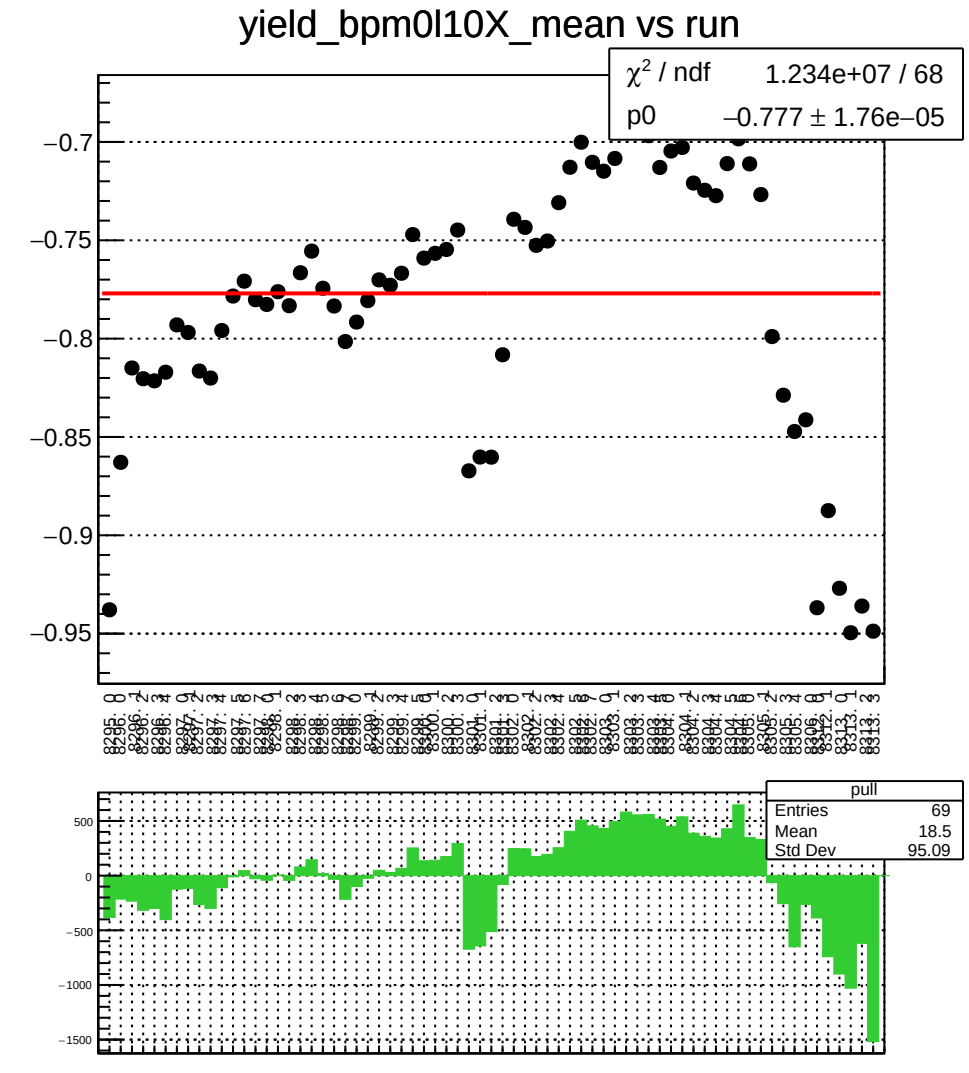

pull1D
Entries 69
Mean 3.88
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

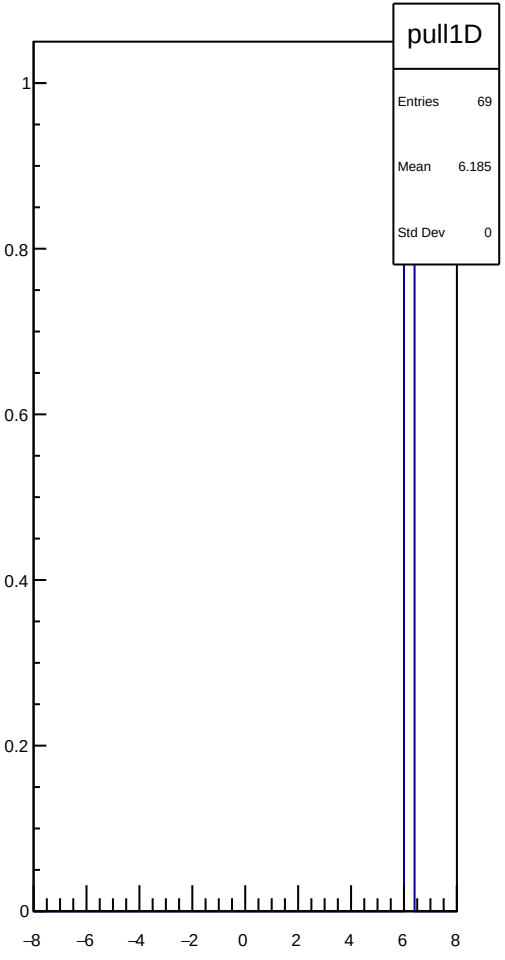

yield_bpm0l09X_rms vs run
χ² / ndf 6.078e+04 / 68
p0 0.0159 ± 1.395e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

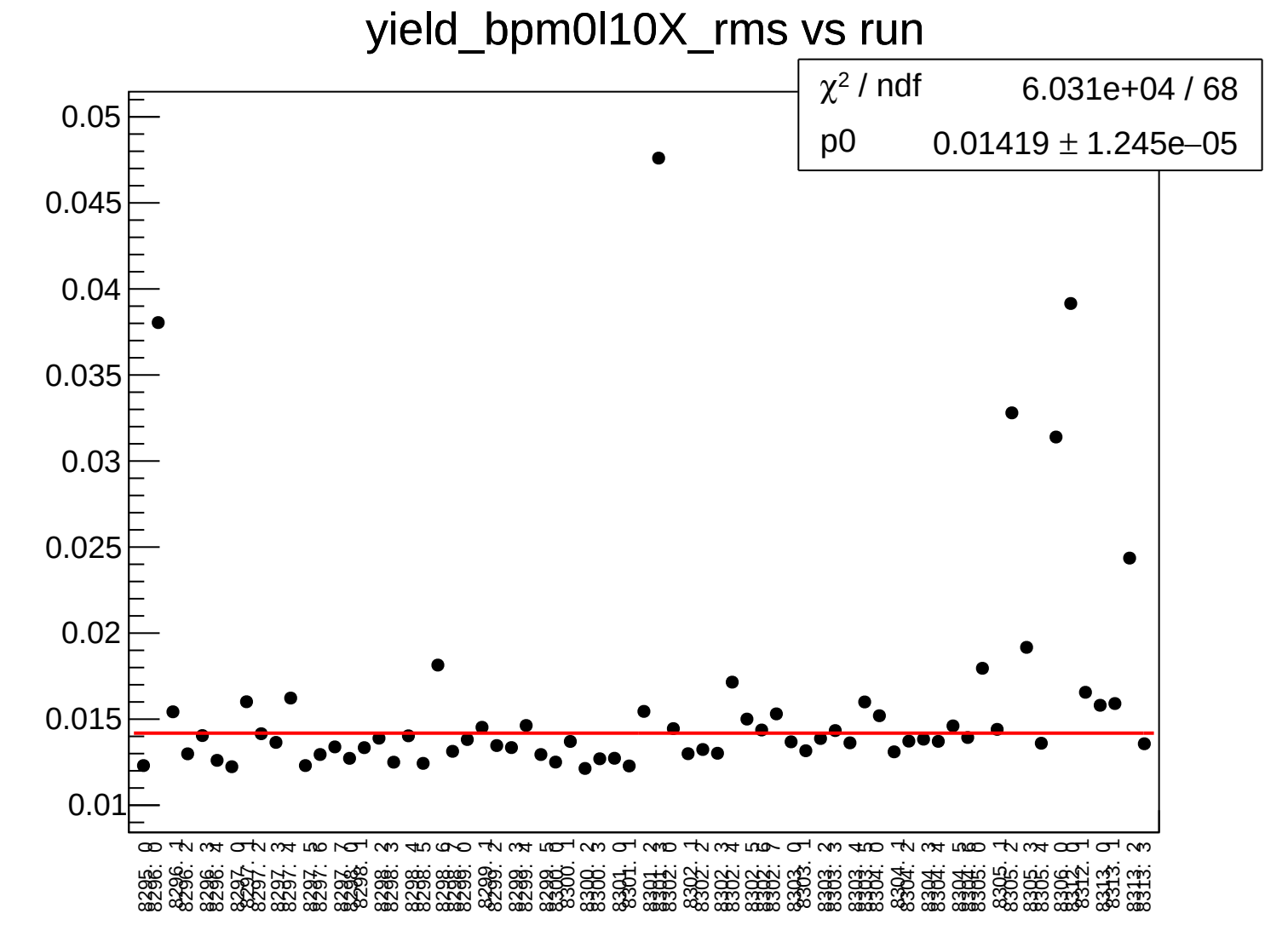

yield_bpm0l09Y_mean vs run
χ² / ndf 9.269e+06 / 68
p0 0.3138 ± 4.918e−06
0.38
0.36
0.34
0.32
0.3
pull
Entries 69
Mean −502.9
Std Dev 529.9
1000
800
600
400
200
0
−200
−400
−600

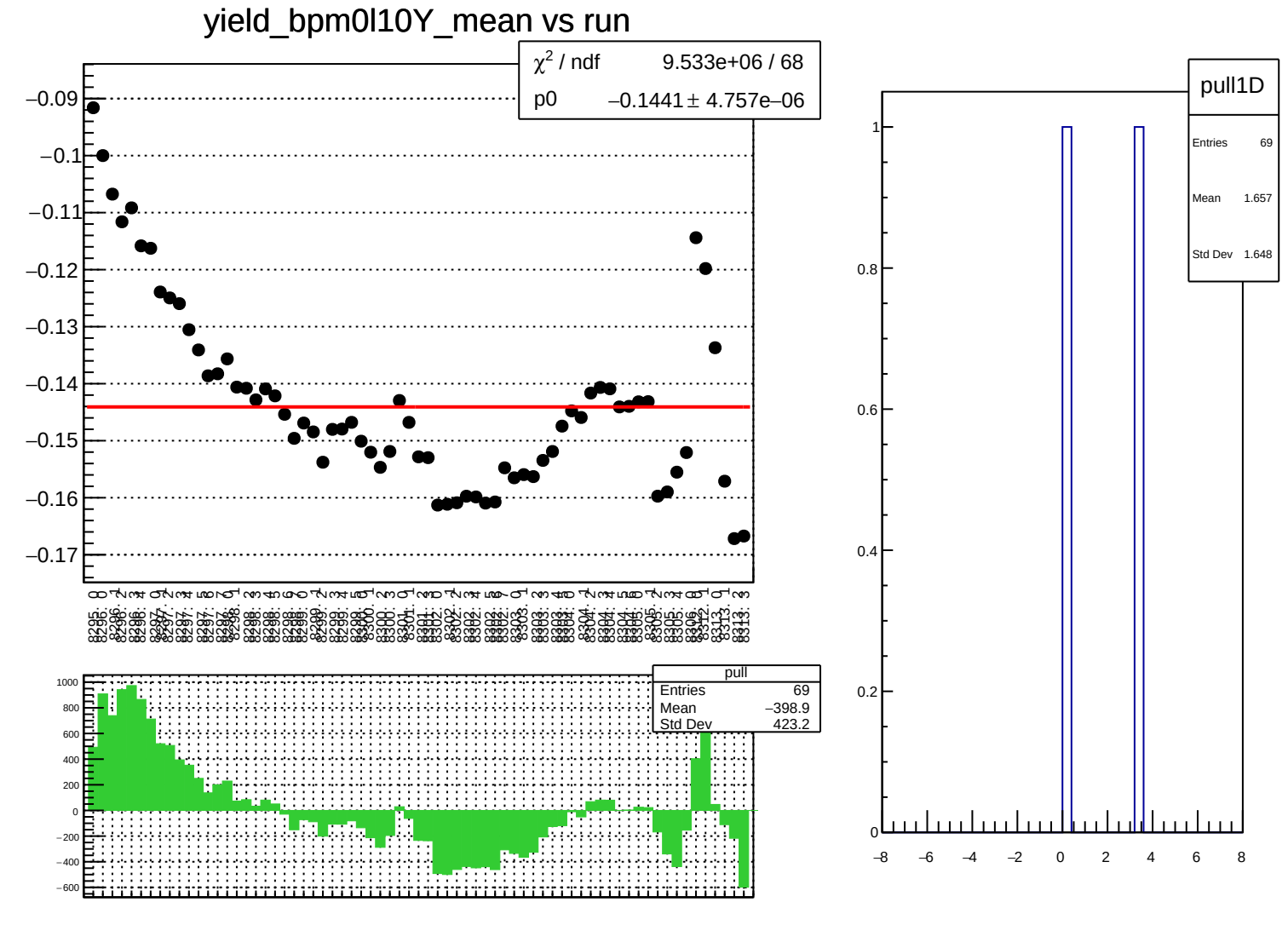

pull1D
Entries 69
Mean −2.978
Std Dev 1.572
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

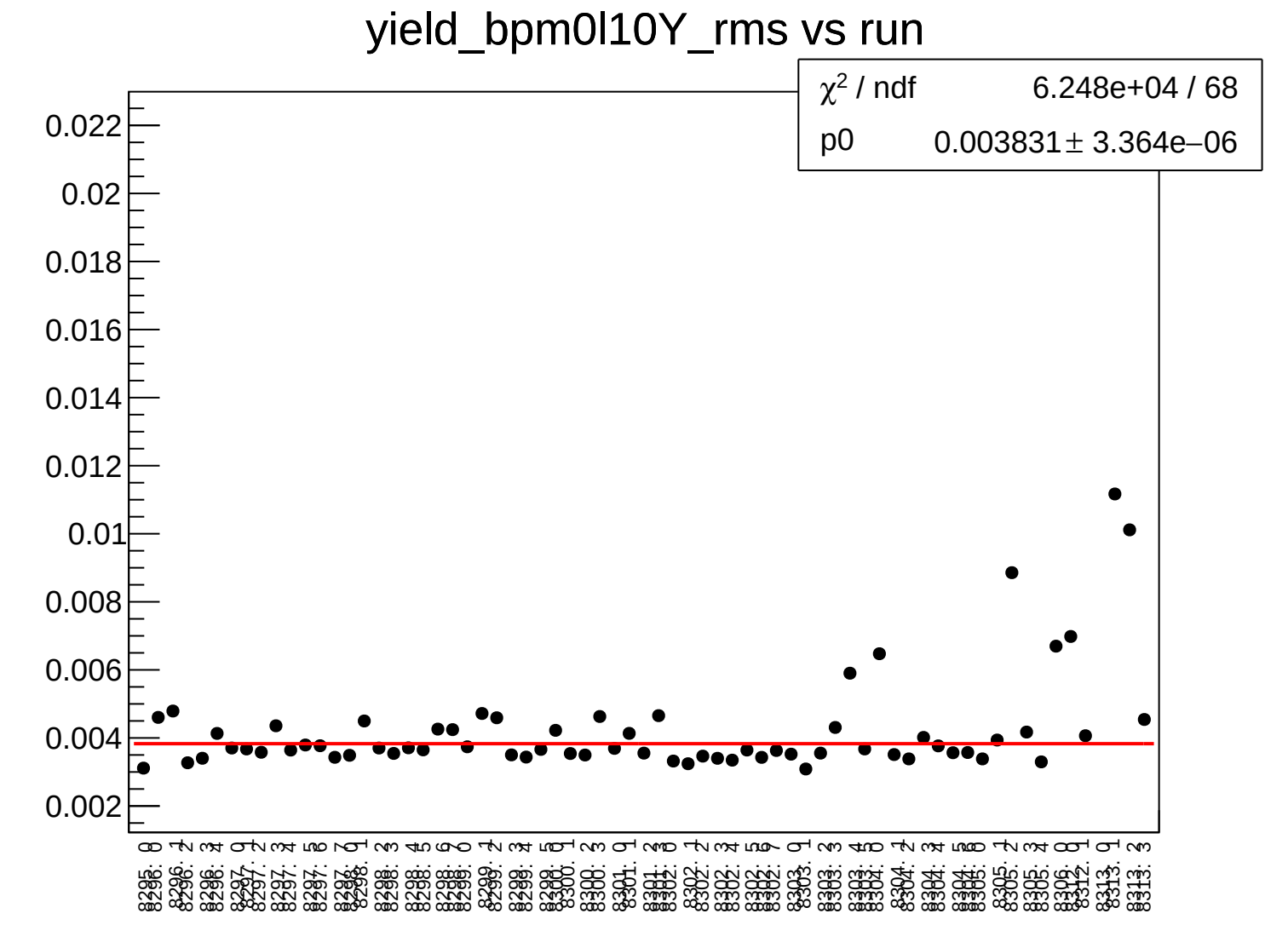

yield_bpm0l09Y_rms vs run
χ² / ndf 7.94e+04 / 68
p0 0.003935 ± 3.478e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

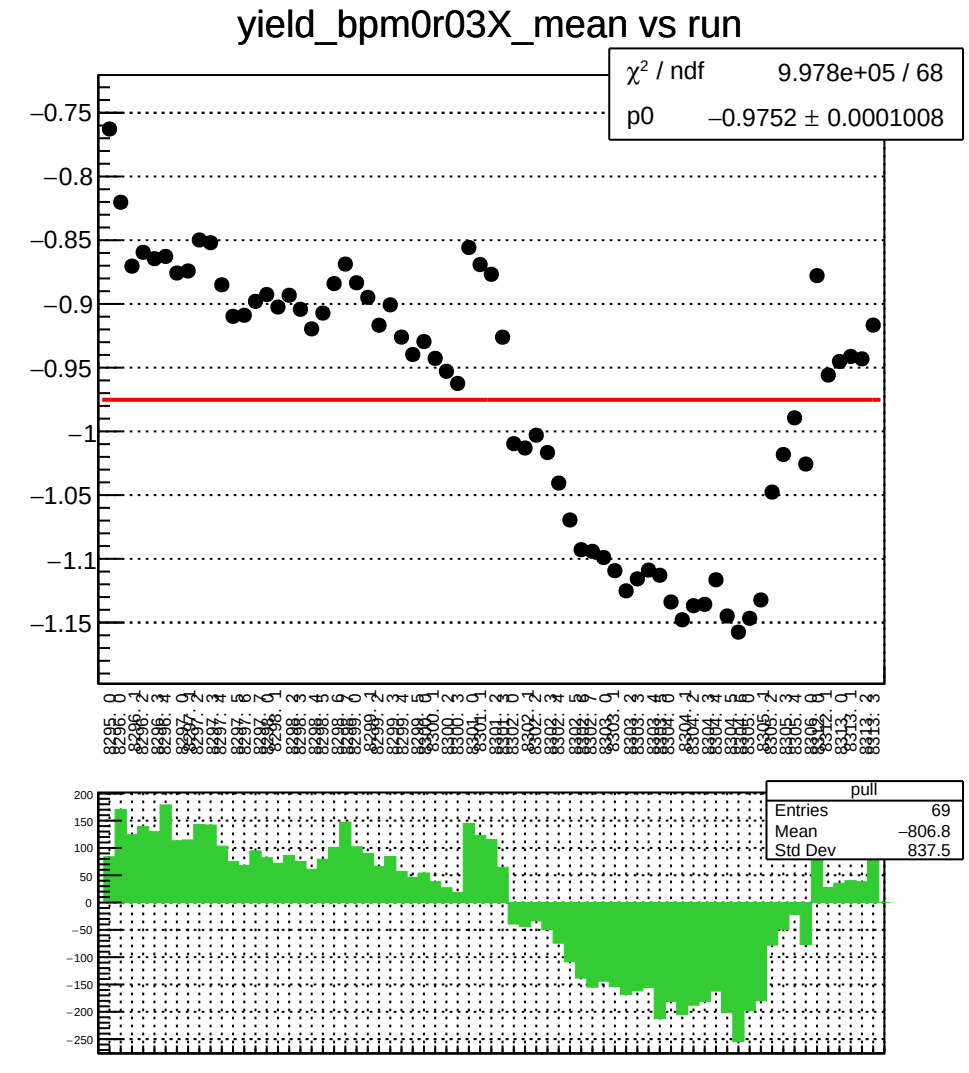

yield_bpm0l10X_mean vs run
χ² / ndf 1.234e+07 / 68
p0 −0.777 ± 1.76e−05
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 69
Mean 18.5
Std Dev 95.09
500
0
−500
−1000
−1500

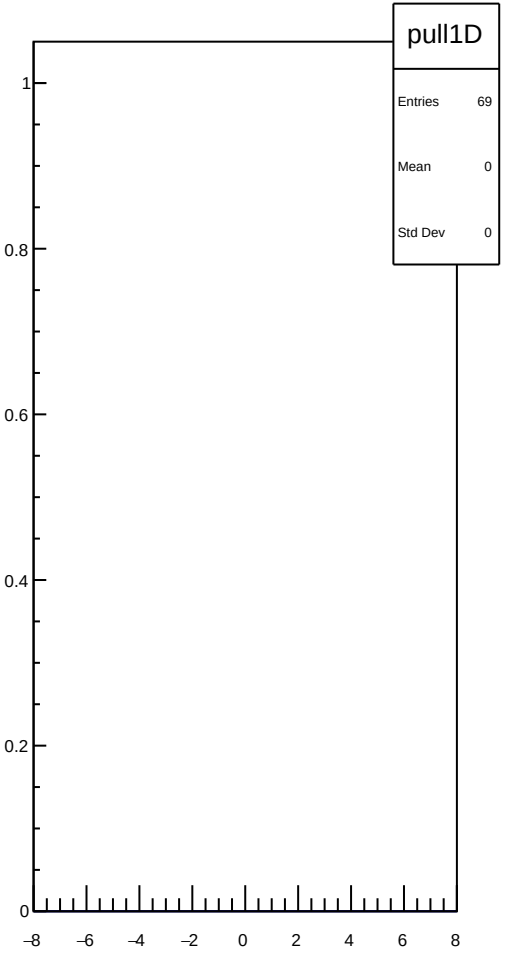

pull1D
Entries 69
Mean 6.185
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

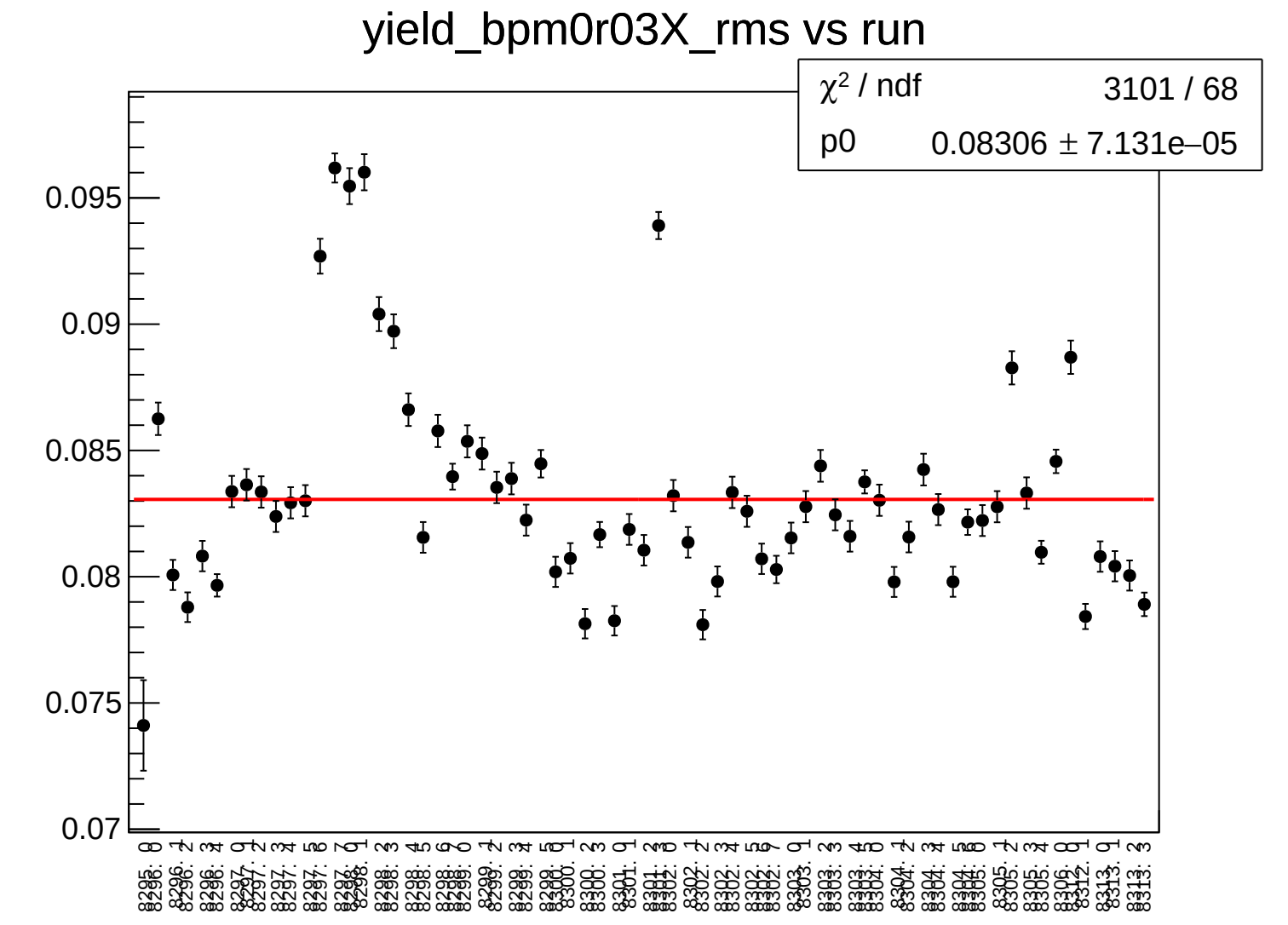

yield_bpm0l10X_rms vs run
χ² / ndf 6.031e+04 / 68
p0 0.01419 ± 1.245e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

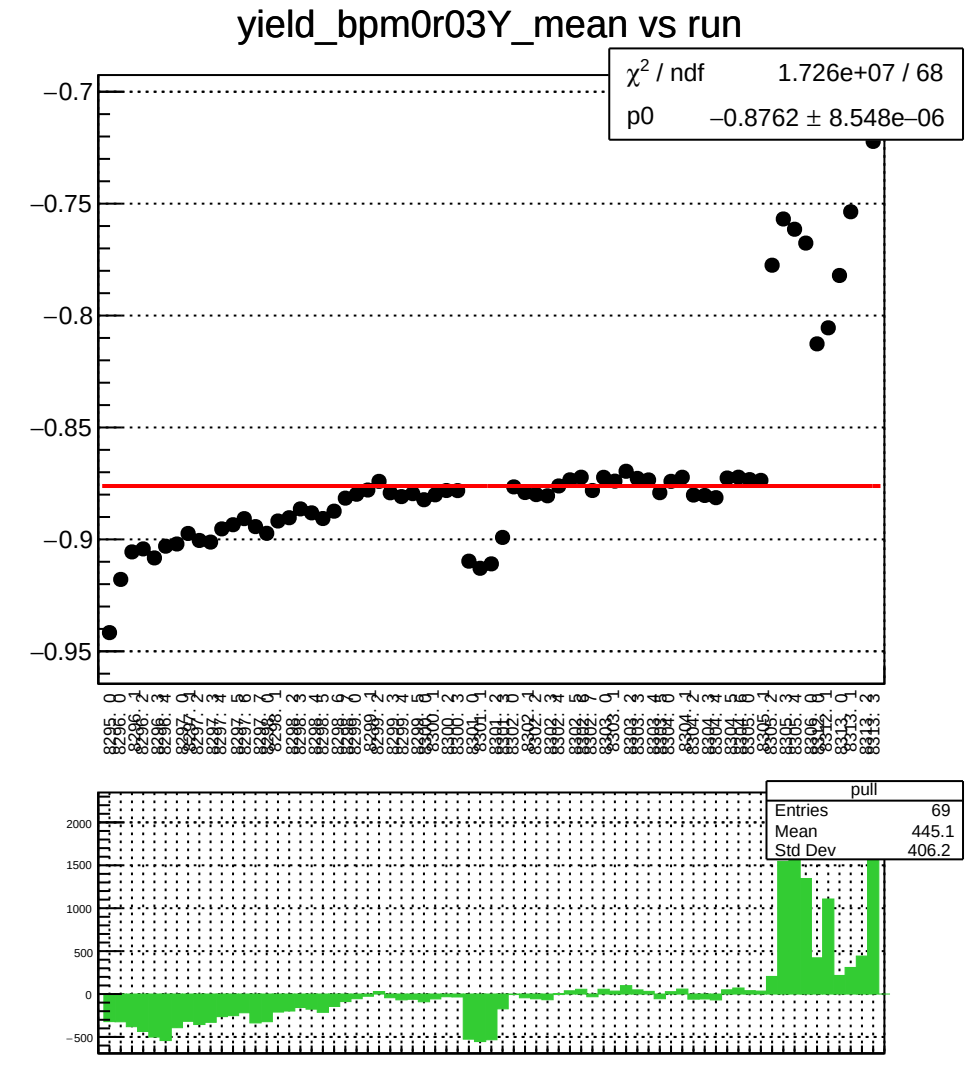

yield_bpm0l10Y_mean vs run
χ² / ndf 9.533e+06 / 68
p0 −0.1441 ± 4.757e−06
pull
Entries 69
Mean −398.9
Std Dev 423.2
pull1D
Entries 69
Mean 1.657
Std Dev 1.648

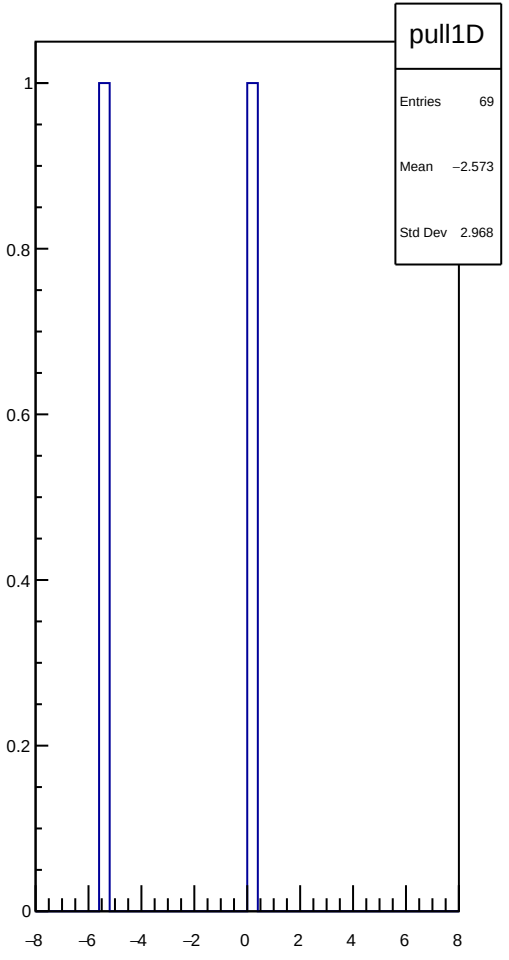

yield_bpm0l10Y_rms vs run
χ² / ndf 6.248e+04 / 68
p0 0.003831 ± 3.364e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

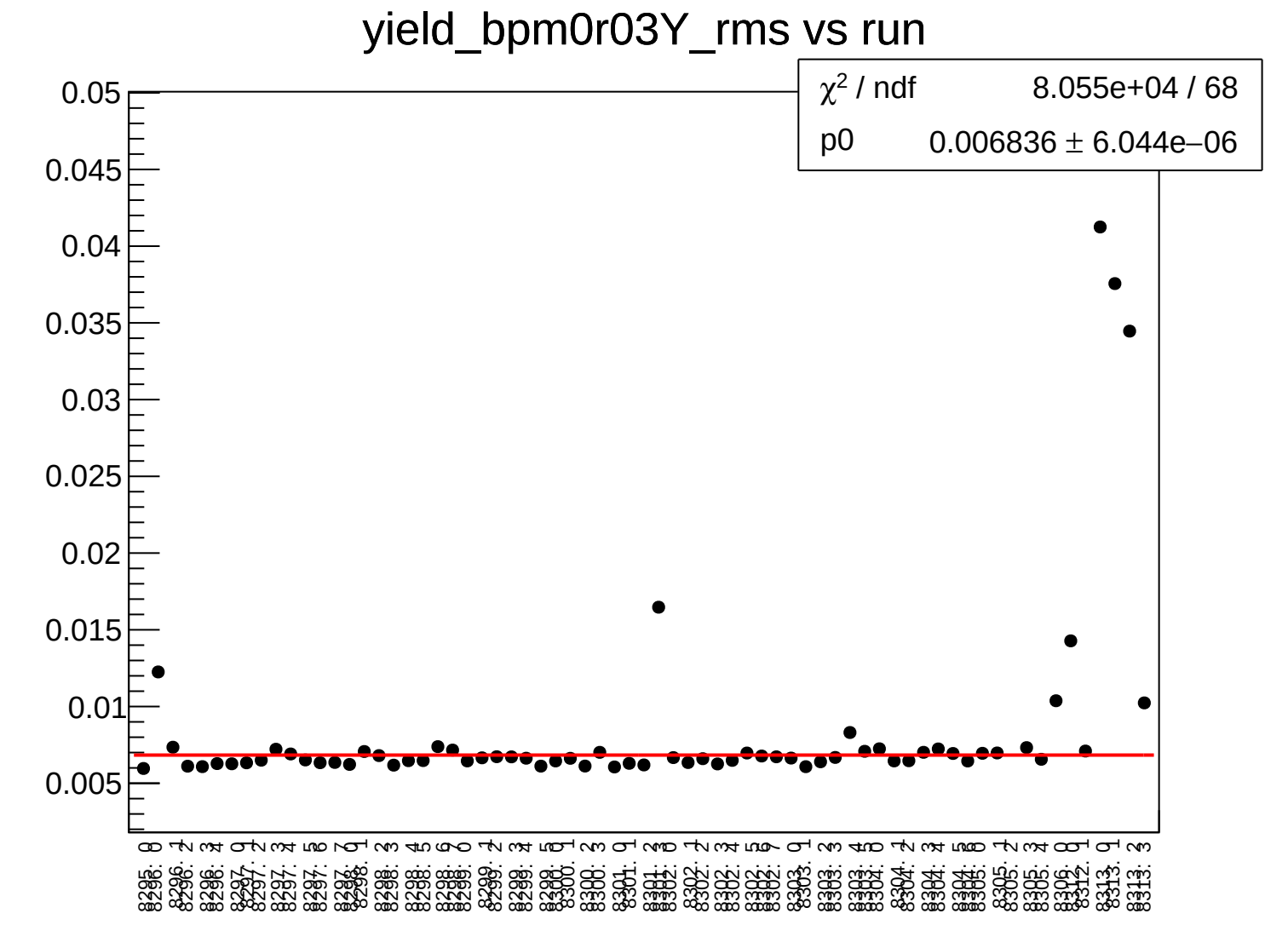

yield_bpm0r03X_mean vs run
χ² / ndf 9.978e+05 / 68
p0 −0.9752 ± 0.0001008
pull
Entries 69
Mean −806.8
Std Dev 837.5

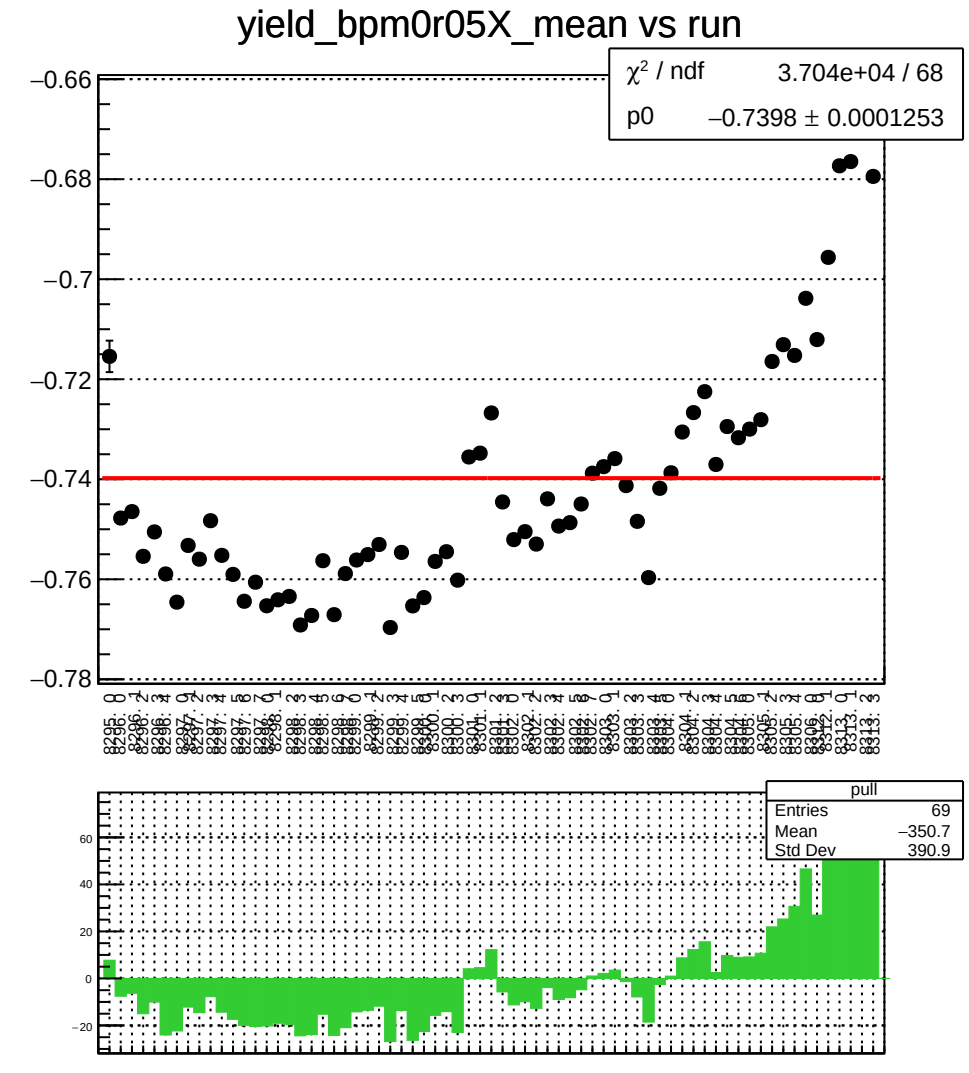

pull1D
Entries 69
Mean 0
Std Dev 0

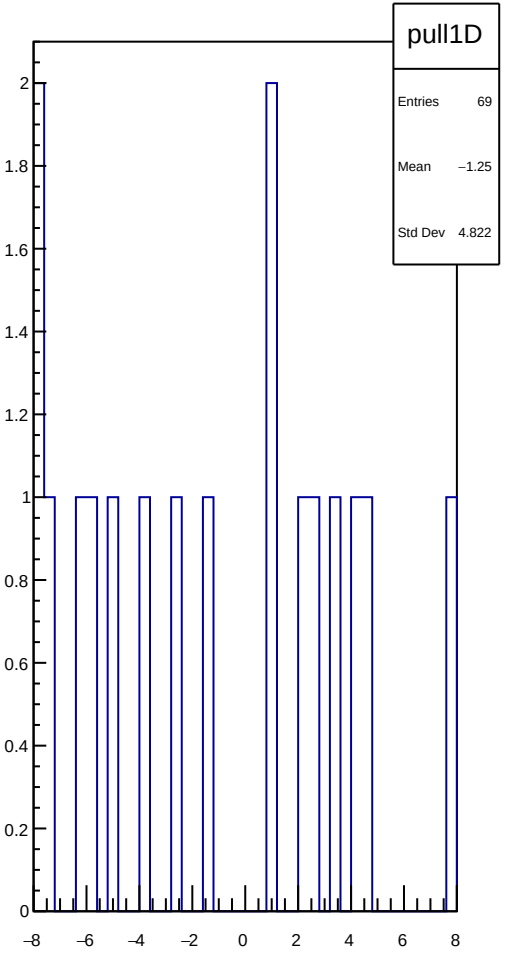

yield_bpm0r03X_rms vs run
χ² / ndf 3101 / 68
p0 0.08306 ± 7.131e–05
0.095
0.09
0.085
0.08
0.075
0.07

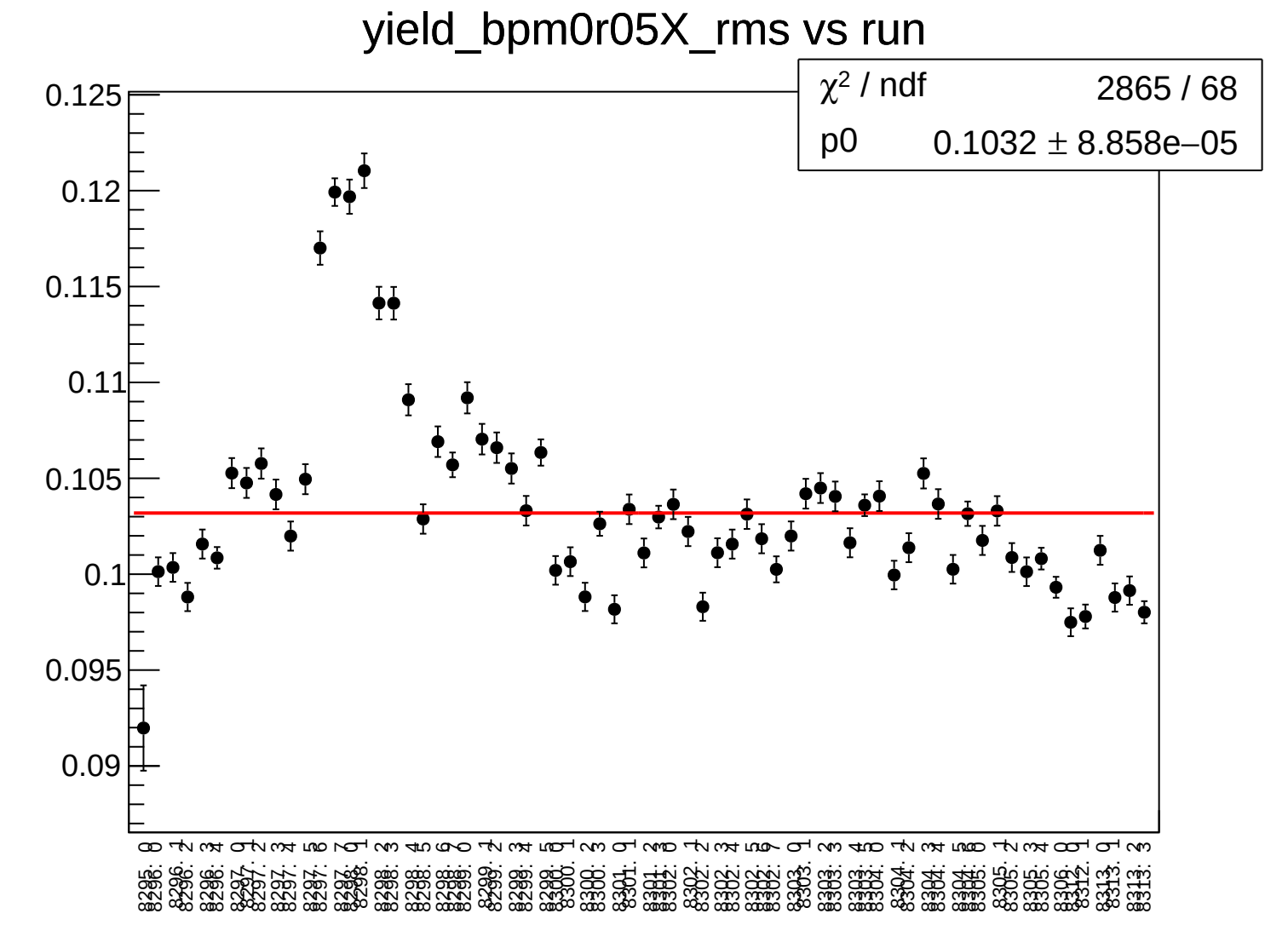

yield_bpm0r03Y_mean vs run
χ² / ndf 1.726e+07 / 68
p0 −0.8762 ± 8.548e−06
−0.7
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 69
Mean 445.1
Std Dev 406.2
2000
1500
1000
500
0
−500

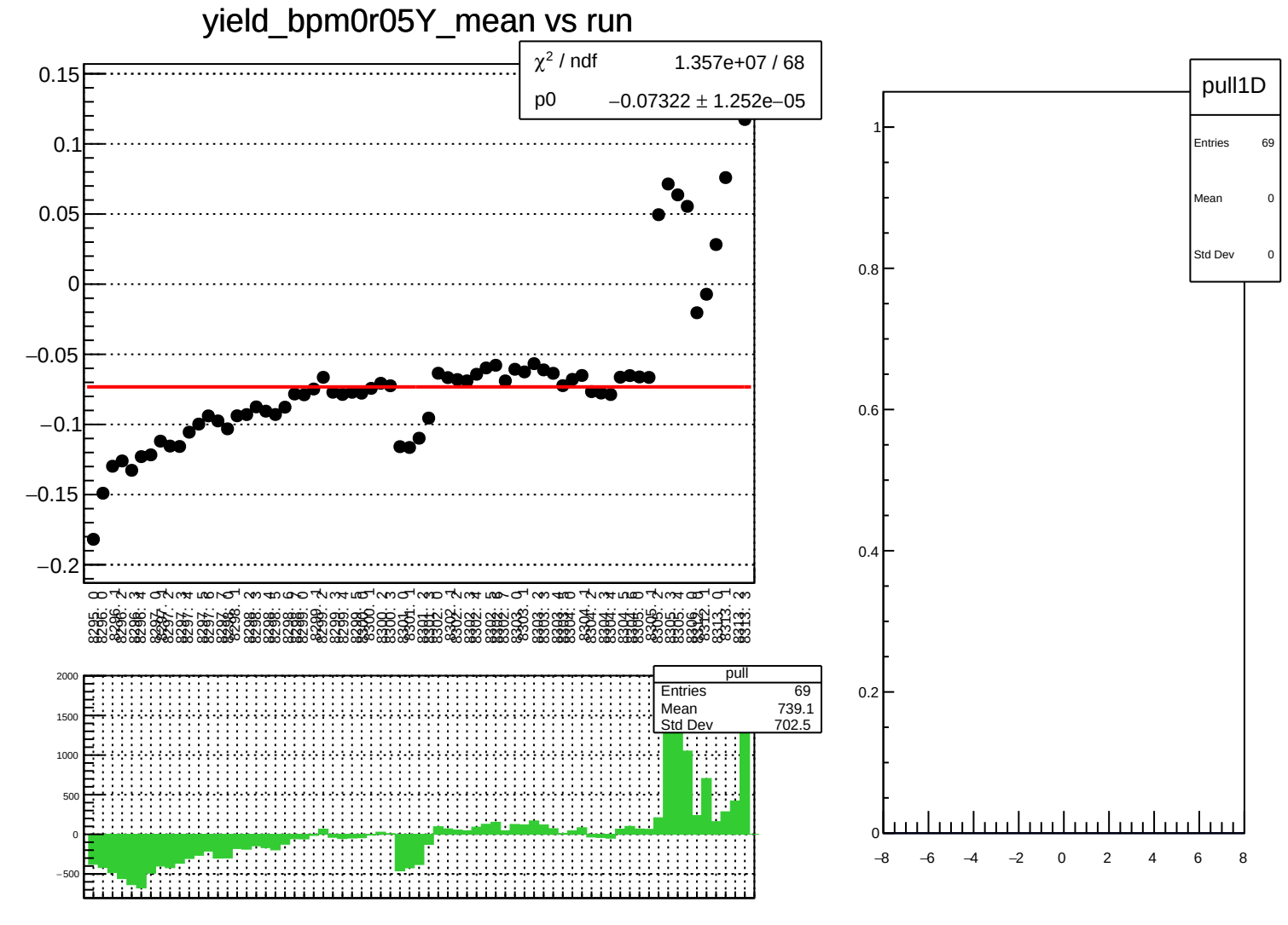

pull1D
Entries 69
Mean −2.573
Std Dev 2.968
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

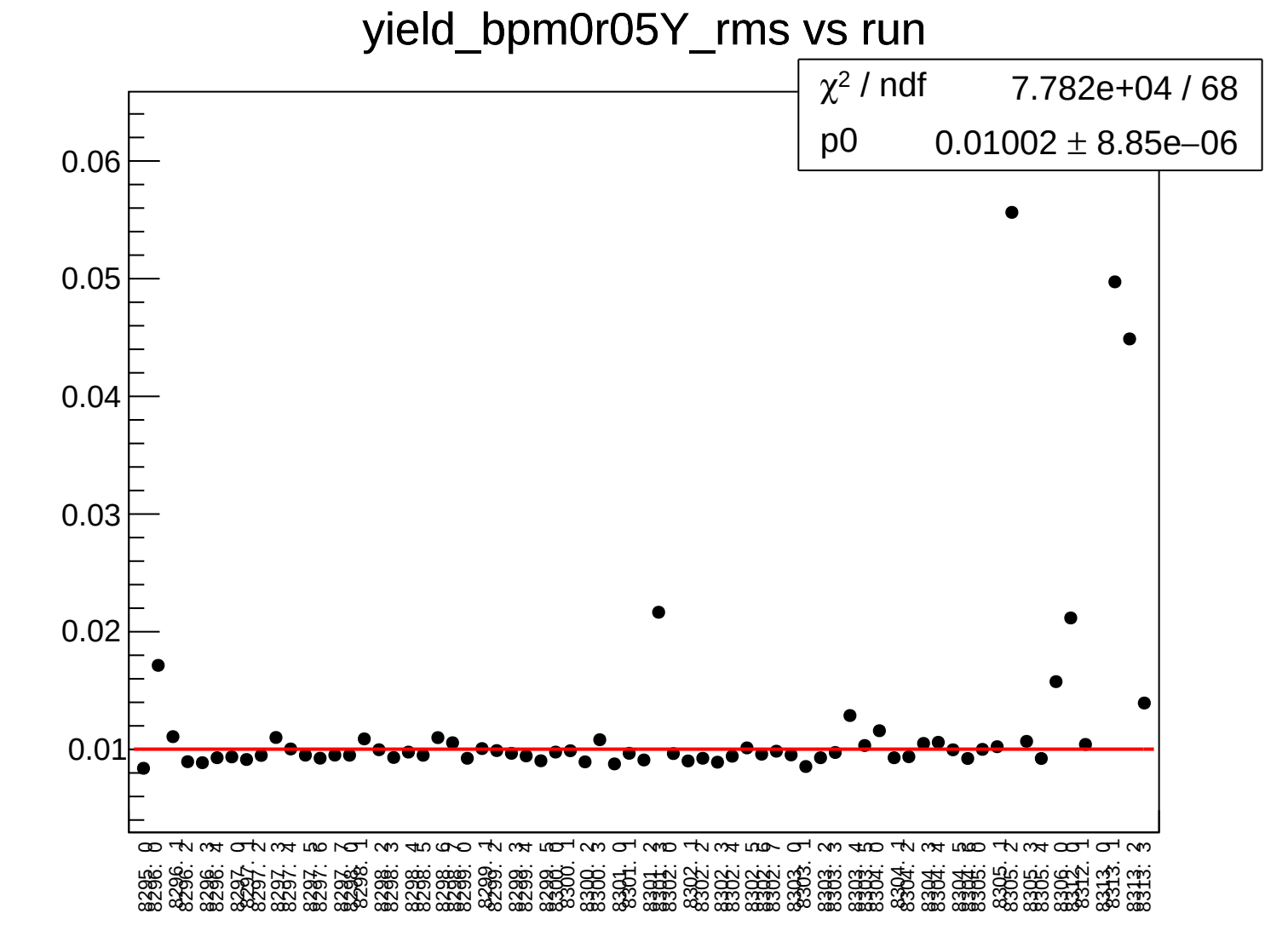

yield_bpm0r03Y_rms vs run
χ² / ndf 8.055e+04 / 68
p0 0.006836 ± 6.044e−06
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

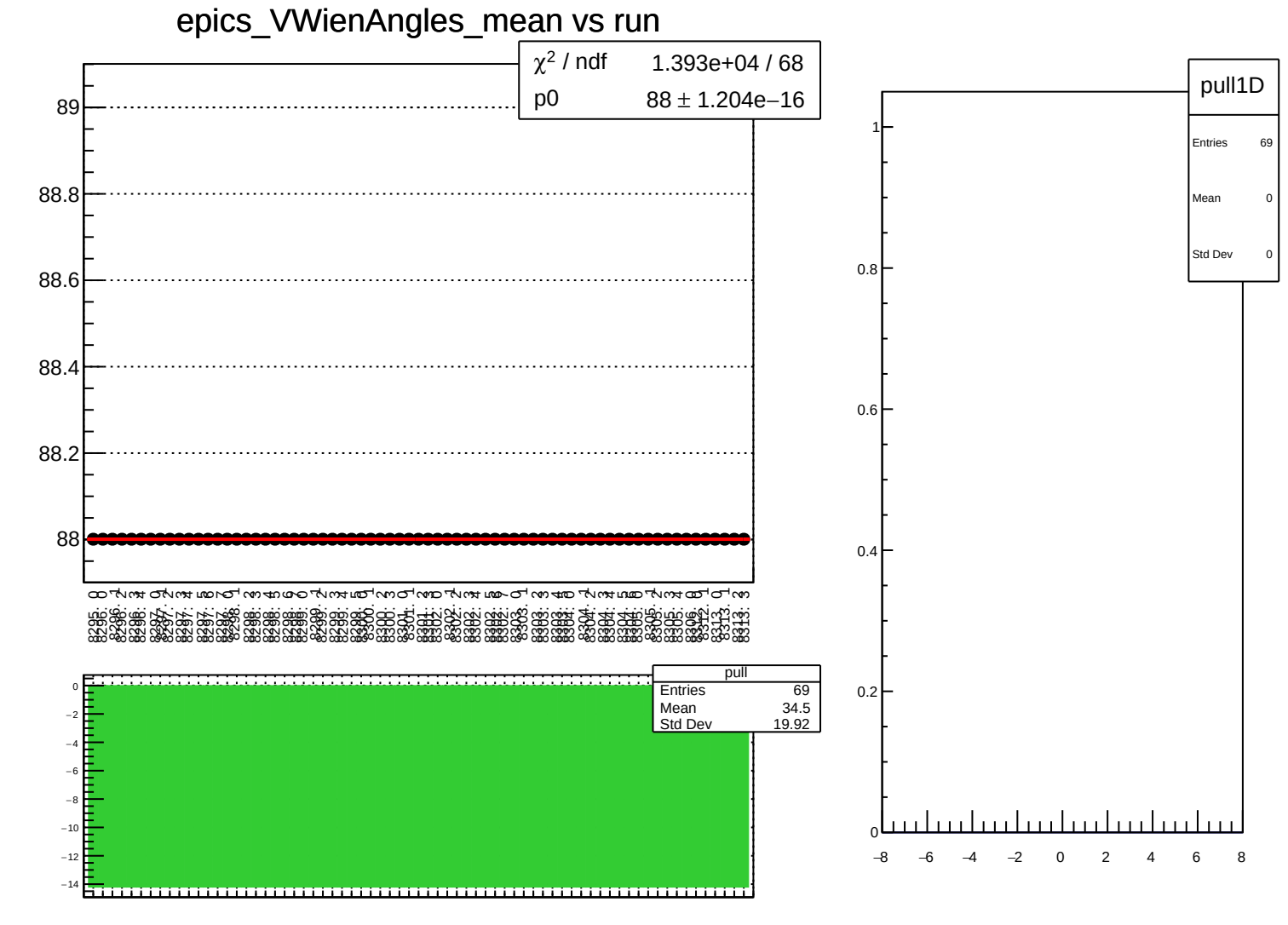

yield_bpm0r05X_mean vs run
χ² / ndf 3.704e+04 / 68
p0 −0.7398 ± 0.0001253
−0.66
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
pull
Entries 69
Mean −350.7
Std Dev 390.9
60
40
20
0
−20

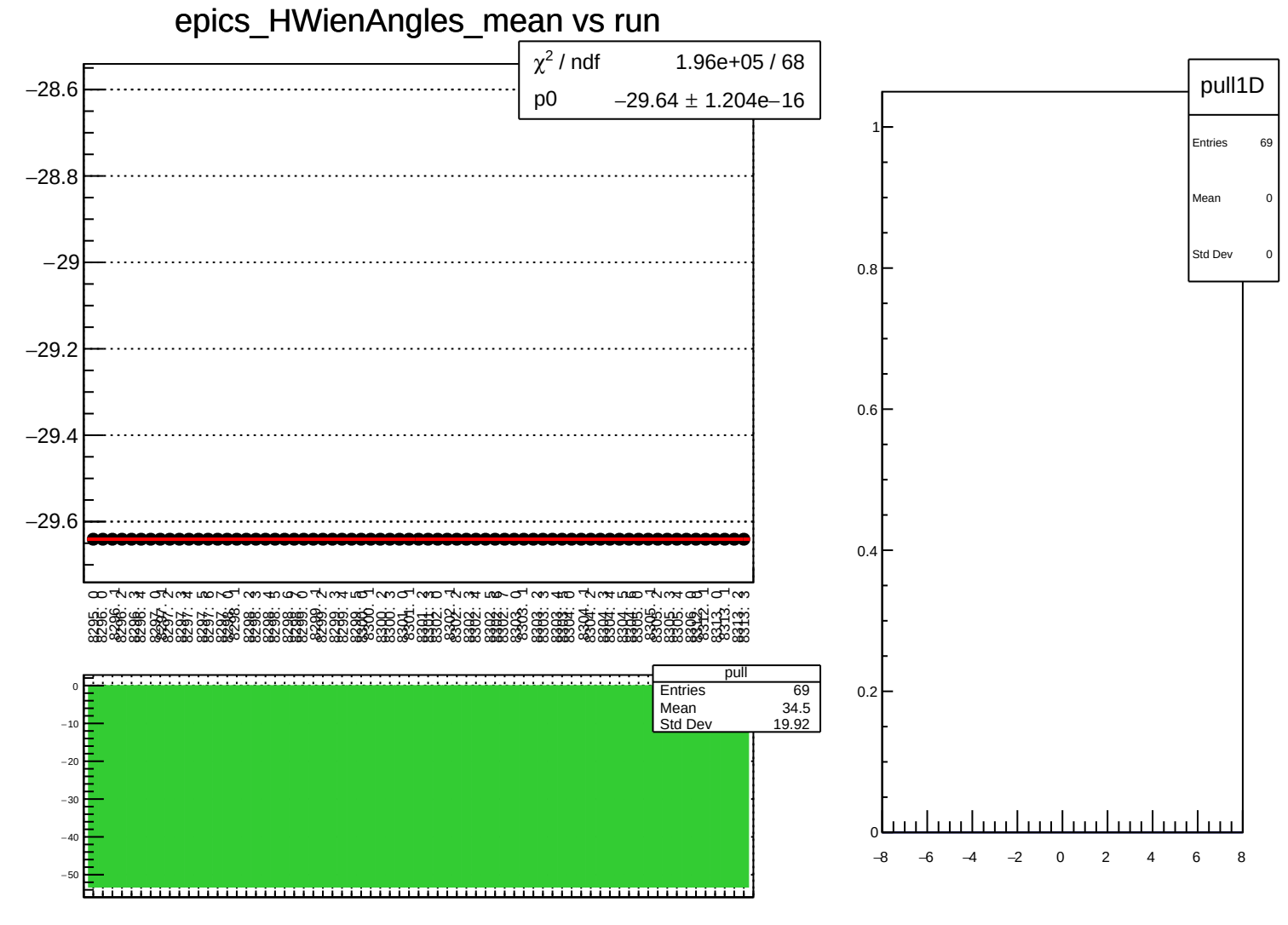

pull1D
Entries 69
Mean −1.25
Std Dev 4.822
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

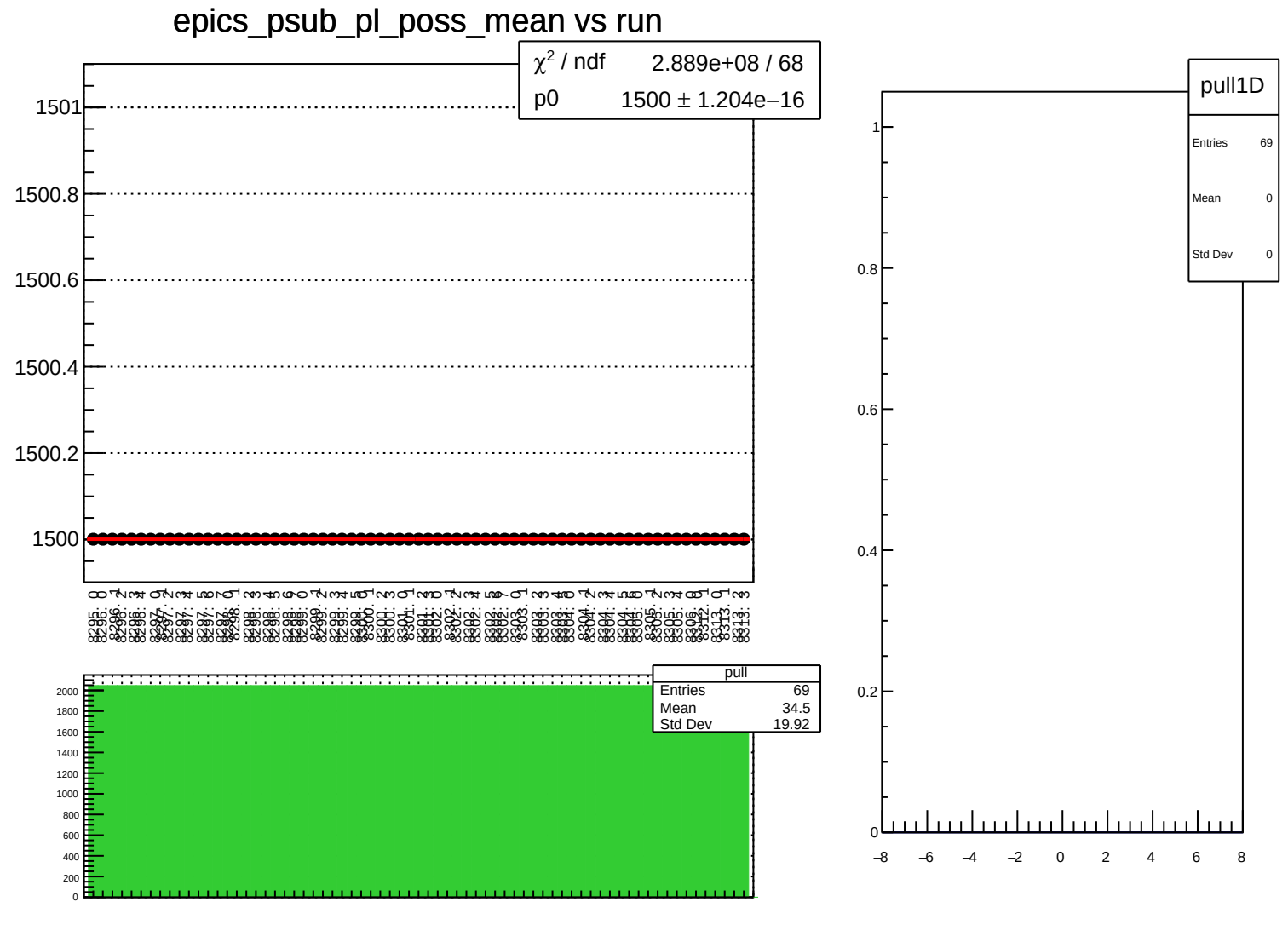

yield_bpm0r05X_rms vs run
χ² / ndf 2865 / 68
p0 0.1032 ± 8.858e−05
0.125
0.12
0.115
0.11
0.105
0.1
0.095
0.09

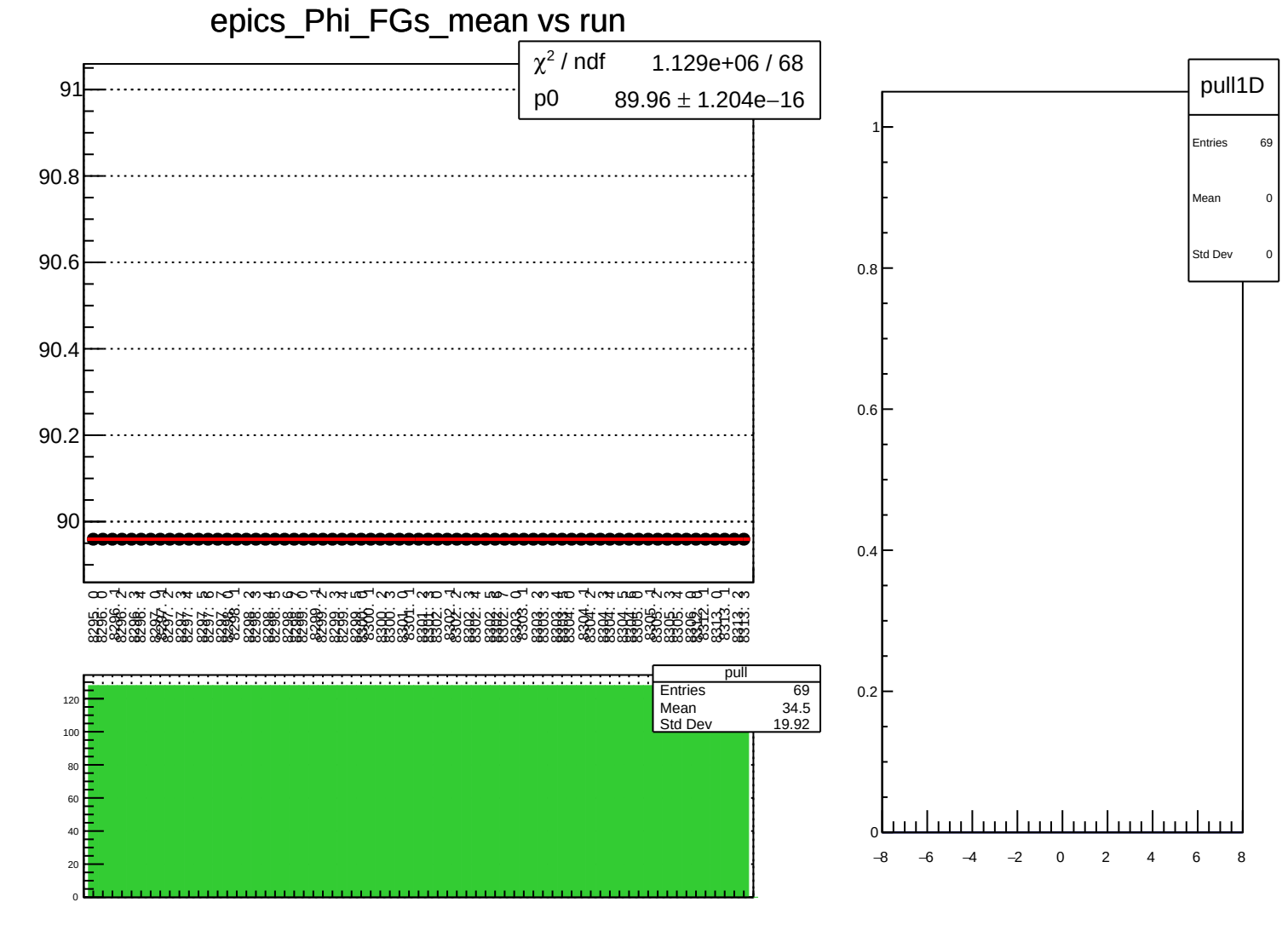

yield_bpm0r05Y_mean vs run
χ² / ndf 1.357e+07 / 68
p0 −0.07322 ± 1.252e−05
pull
Entries 69
Mean 739.1
Std Dev 702.5
pull1D
Entries 69
Mean 0
Std Dev 0

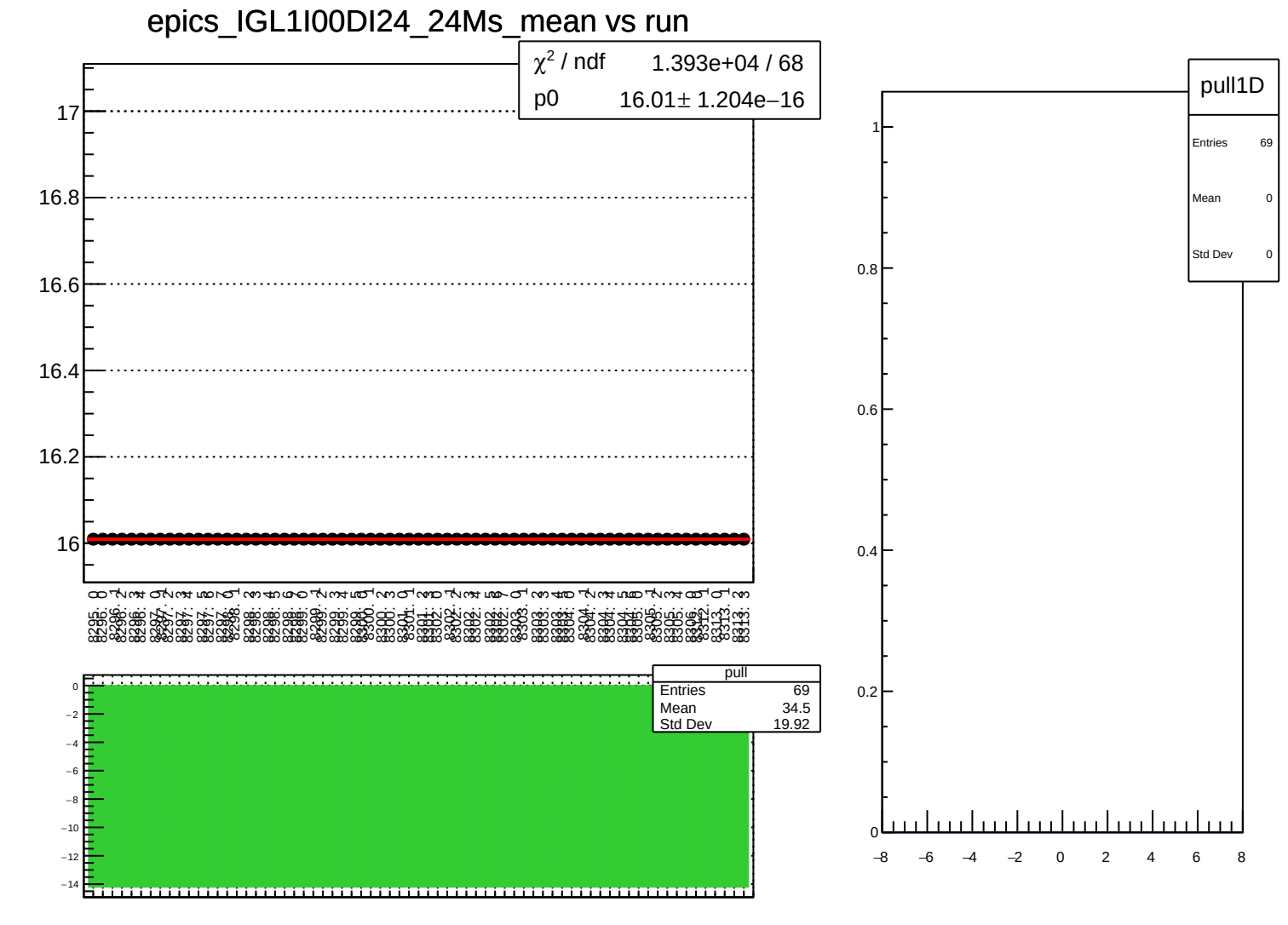

yield_bpm0r05Y_rms vs run
χ² / ndf 7.782e+04 / 68
p0 0.01002 ± 8.85e−06
0.06
0.05
0.04
0.03
0.02
0.01

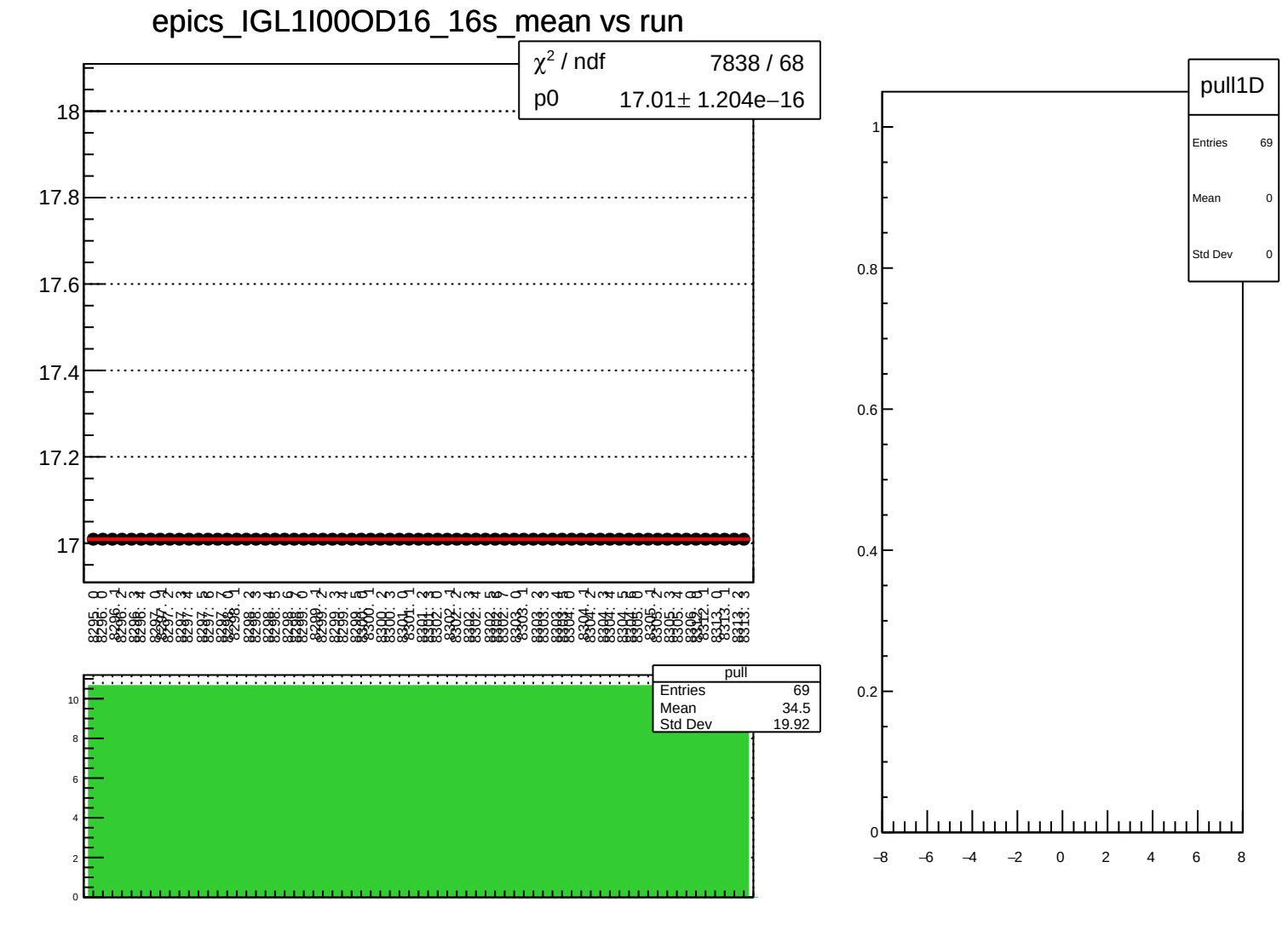

epics_VWienAngles_mean vs run
χ² / ndf 1.393e+04 / 68
p0 88 ± 1.204e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

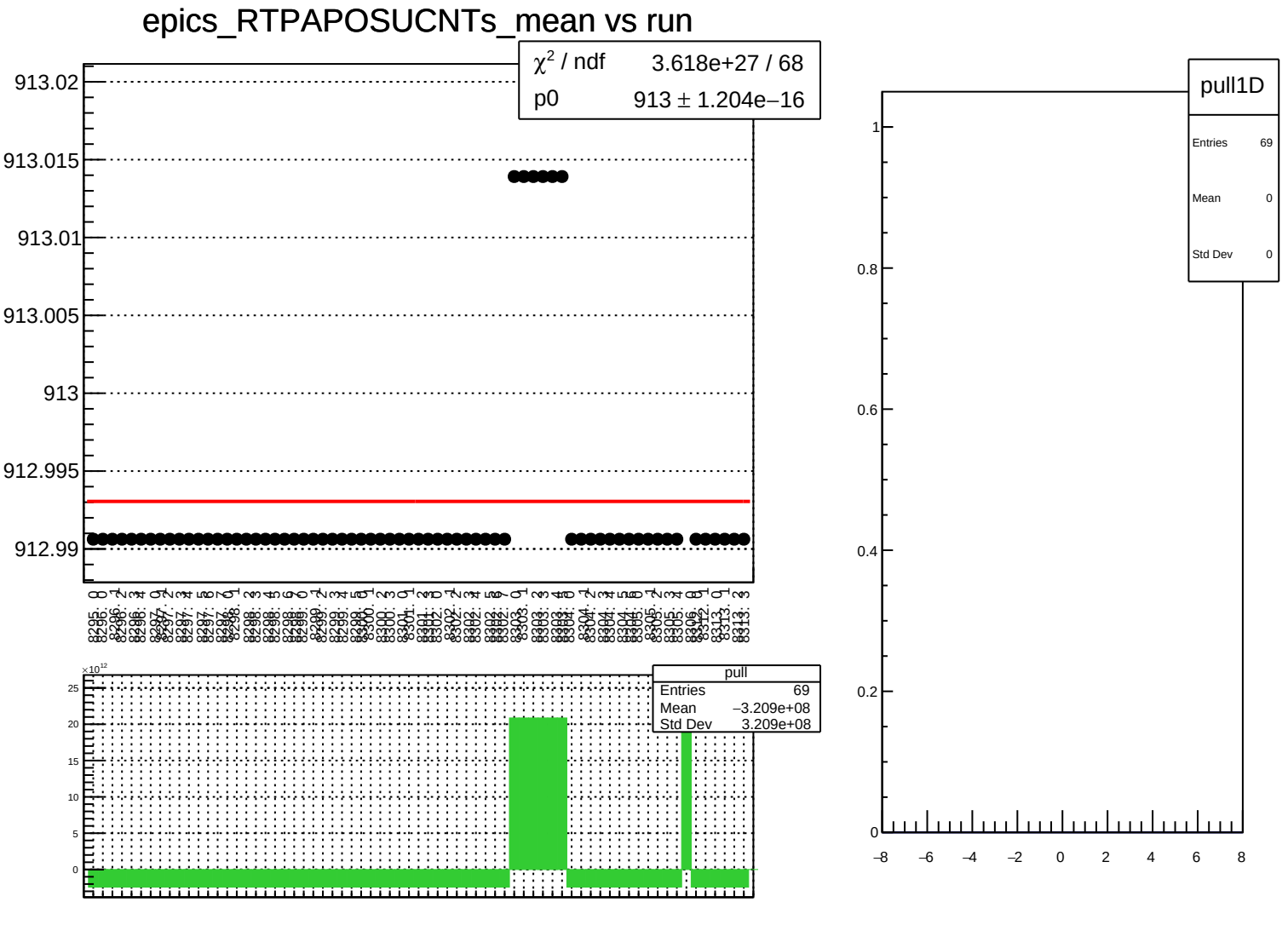

epics_HWienAngles_mean vs run
χ² / ndf 1.96e+05 / 68
p0 −29.64 ± 1.204e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−10
−20
−30
−40
−50
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

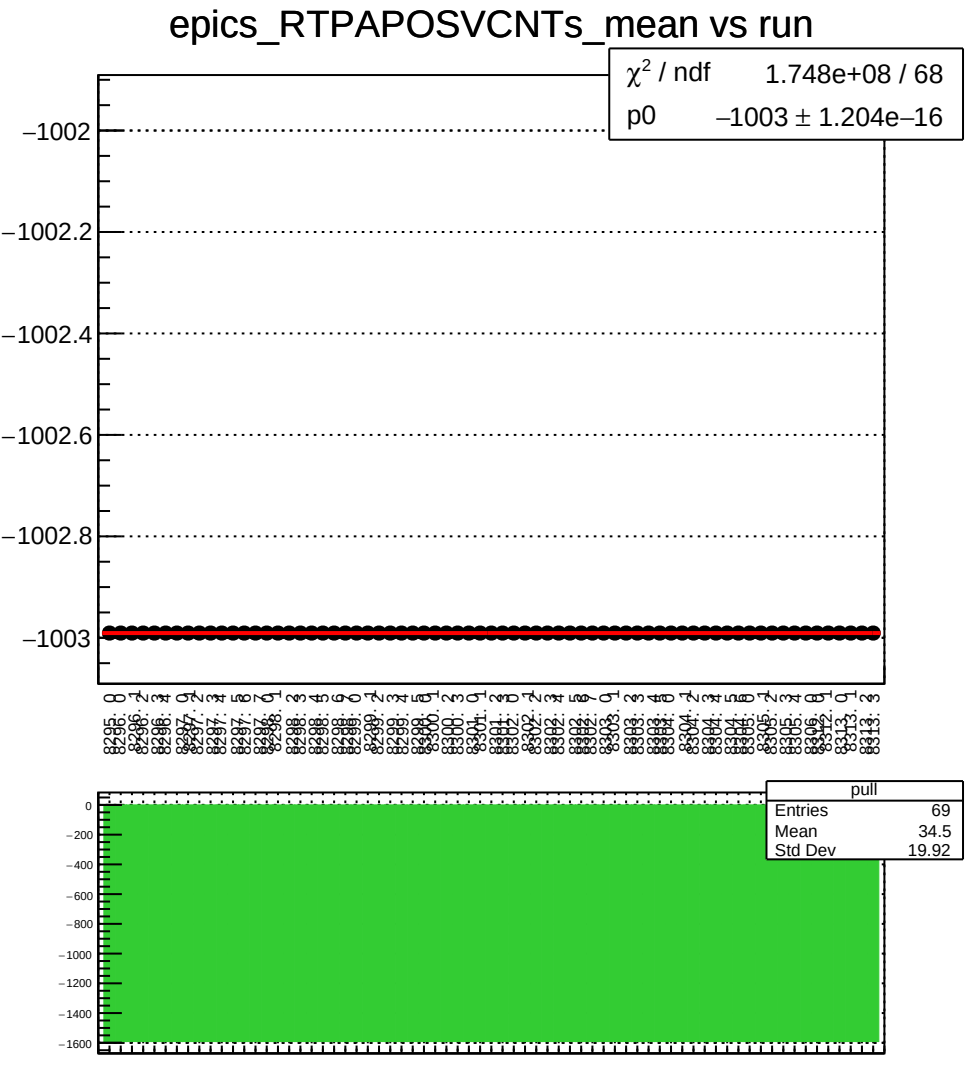

epics_psub_pl_poss_mean vs run
χ² / ndf 2.889e+08 / 68
p0 1500 ± 1.204e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 69
Mean 34.5
Std Dev 19.92
2000
1800
1600
1400
1200
1000
800
600
400
200
0
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

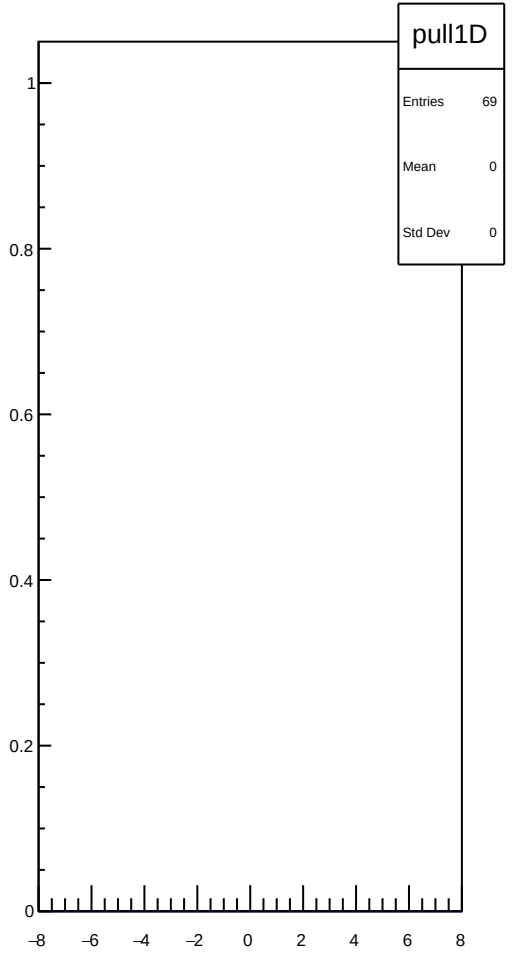

epics_Phi_FGs_mean vs run
χ² / ndf 1.129e+06 / 68
p0 89.96 ± 1.204e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 69
Mean 34.5
Std Dev 19.92
120
100
80
60
40
20
0
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

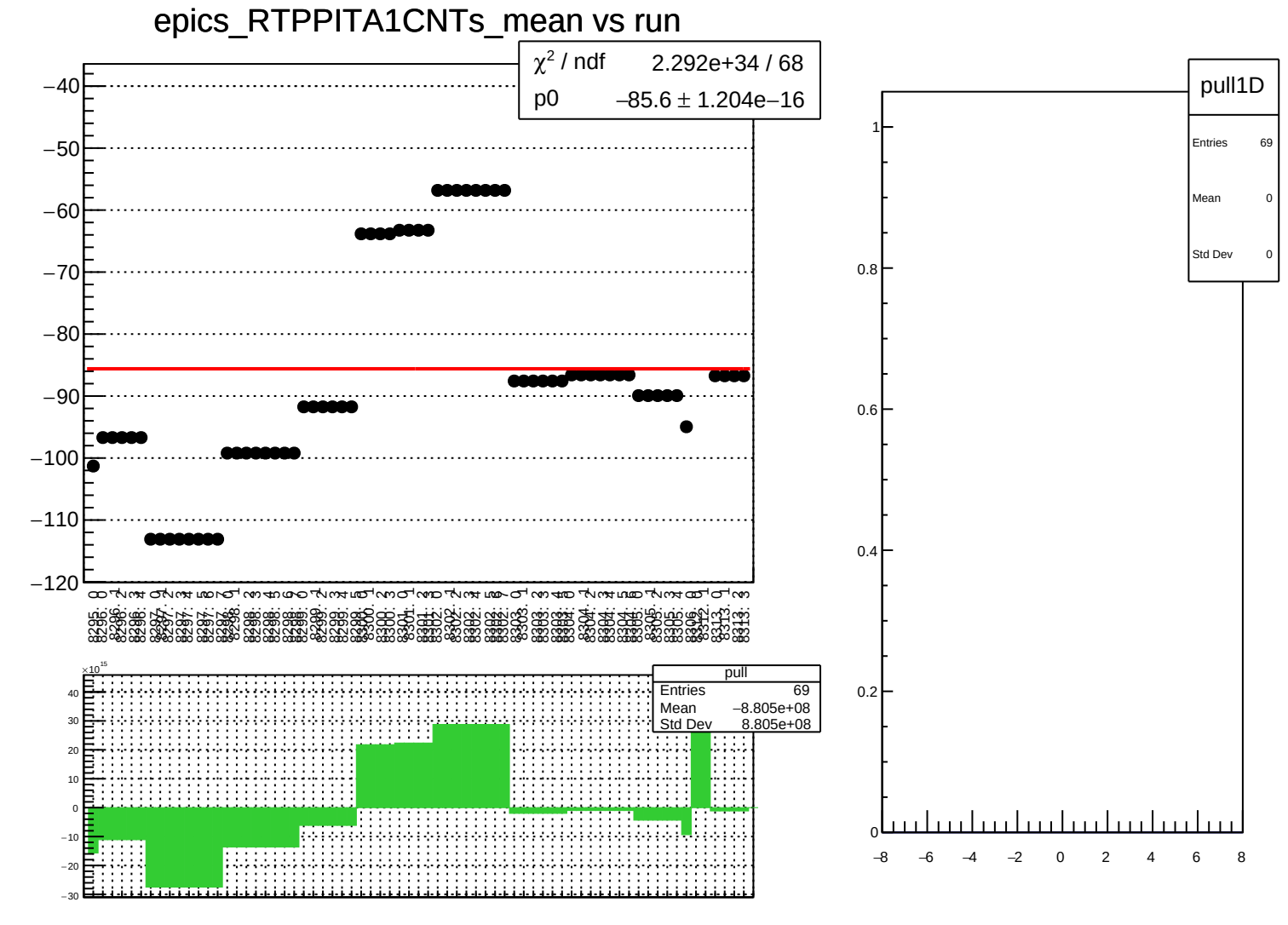

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.393e+04 / 68
p0 16.01± 1.204e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

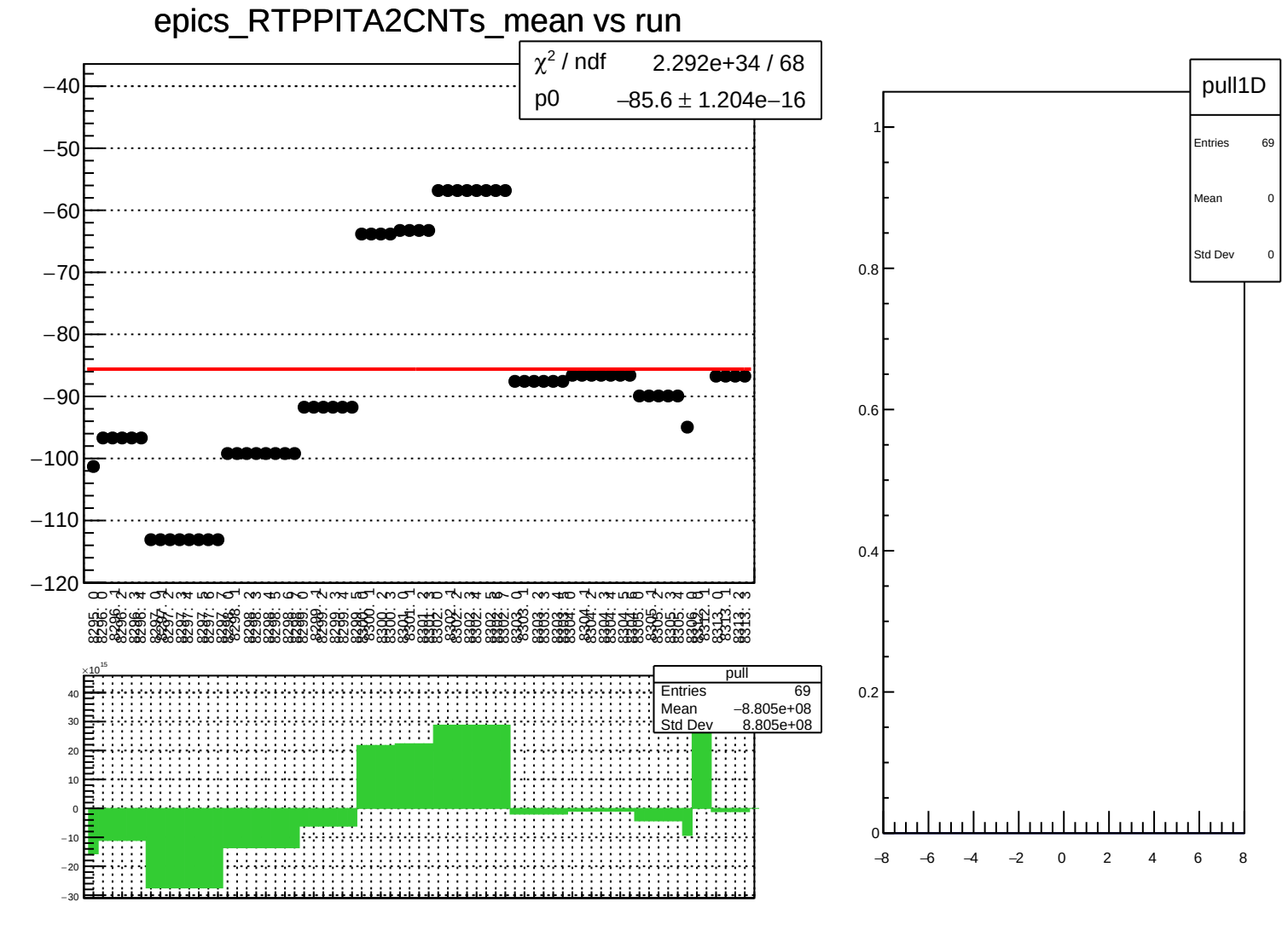

epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 7838 / 68
p0 17.01± 1.204e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 69
Mean 34.5
Std Dev 19.92
10
8
6
4
2
0
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 3.618e+27 / 68
p0 913 ± 1.204e−16
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 69
Mean −3.209e+08
Std Dev 3.209e+08
pull1D
Entries 69
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 1.748e+08 / 68
p0 −1003 ± 1.204e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600


pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPPITA1CNTs_mean vs run
χ² / ndf 2.292e+34 / 68
p0 −85.6 ± 1.204e−16
pull
Entries 69
Mean −8.805e+08
Std Dev 8.805e+08
pull1D
Entries 69
Mean 0
Std Dev 0


epics_RTPPITA2CNTs_mean vs run
χ² / ndf 2.292e+34 / 68
p0 −85.6 ± 1.204e−16
pull
Entries 69
Mean −8.805e+08
Std Dev 8.805e+08
pull1D
Entries 69
Mean 0
Std Dev 0