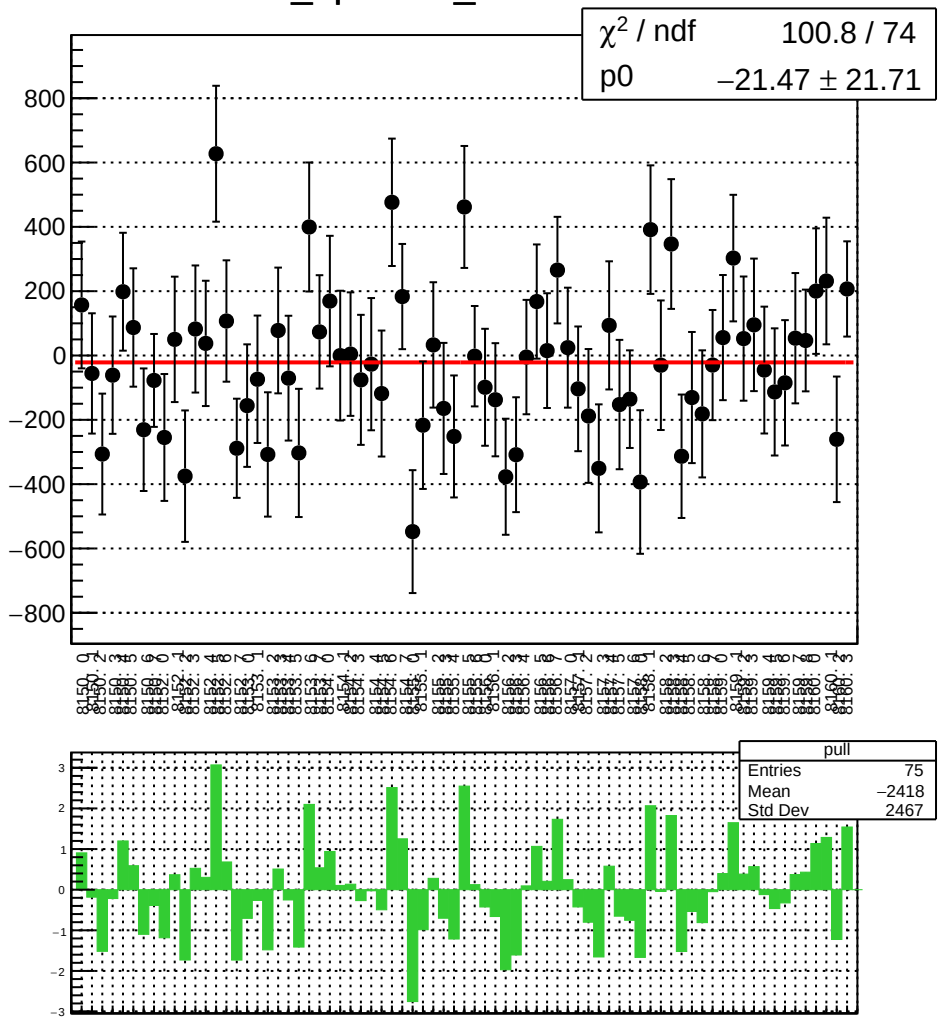
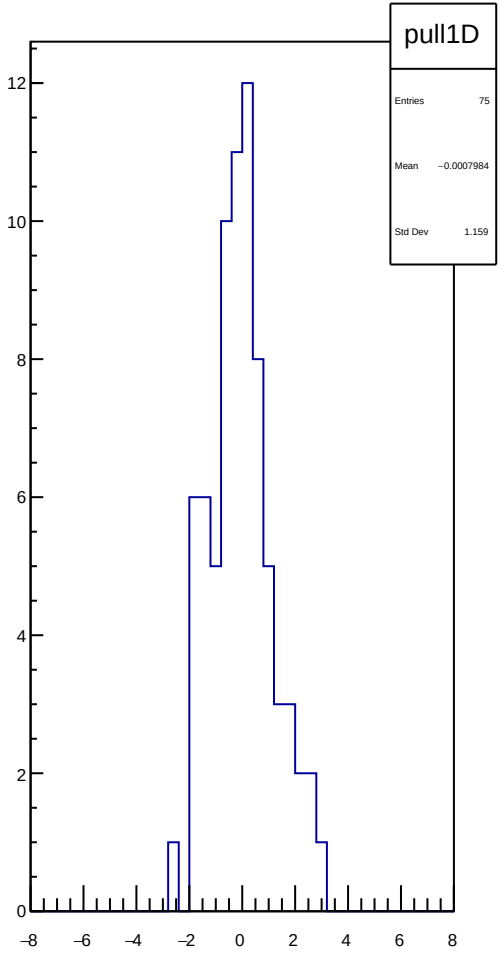
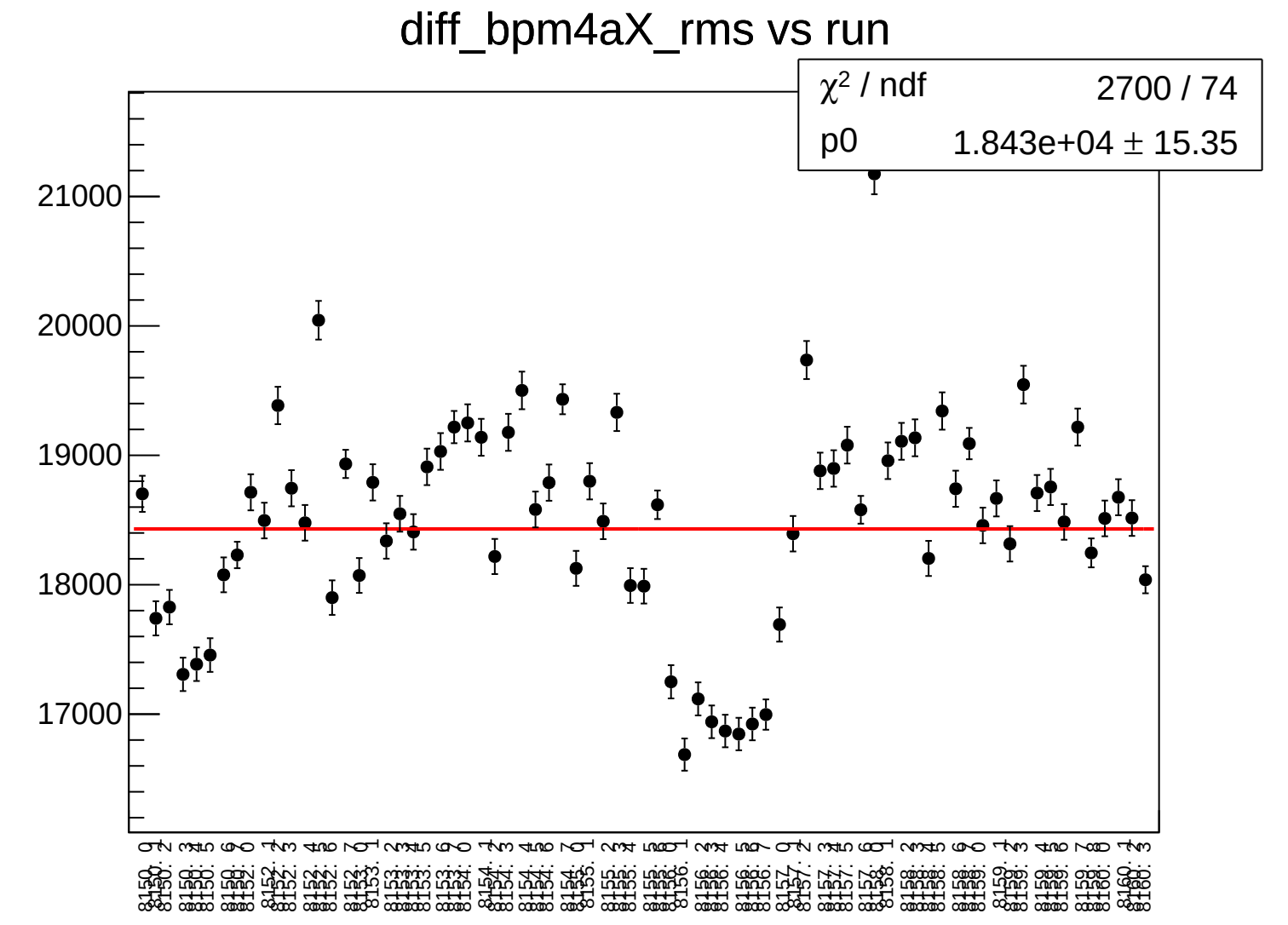
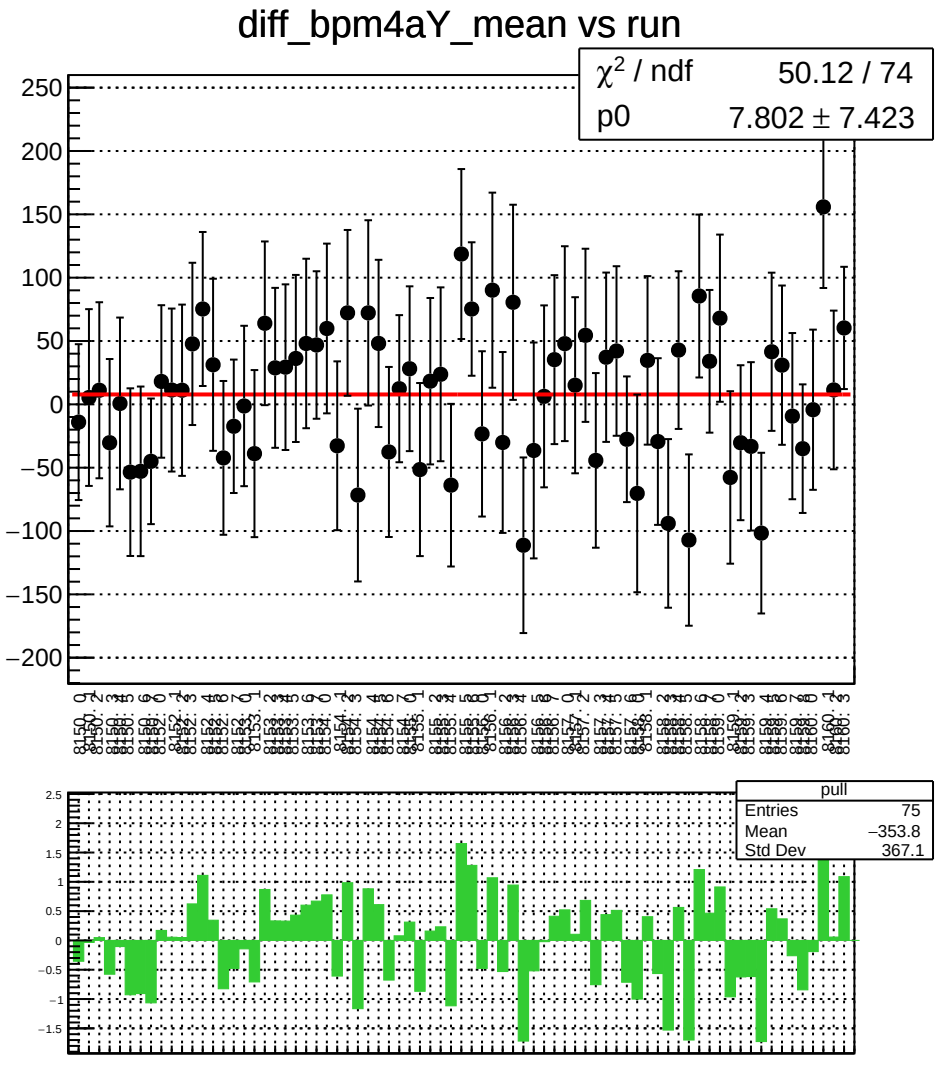
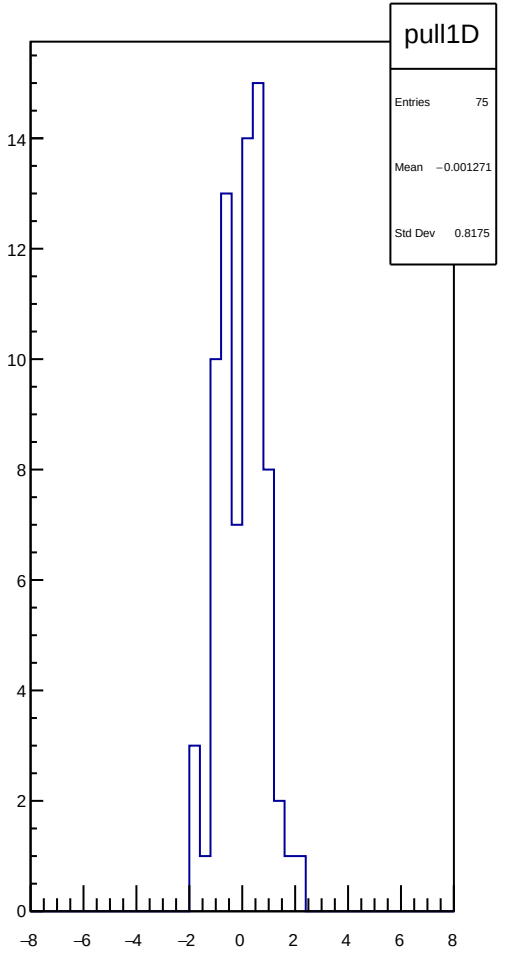
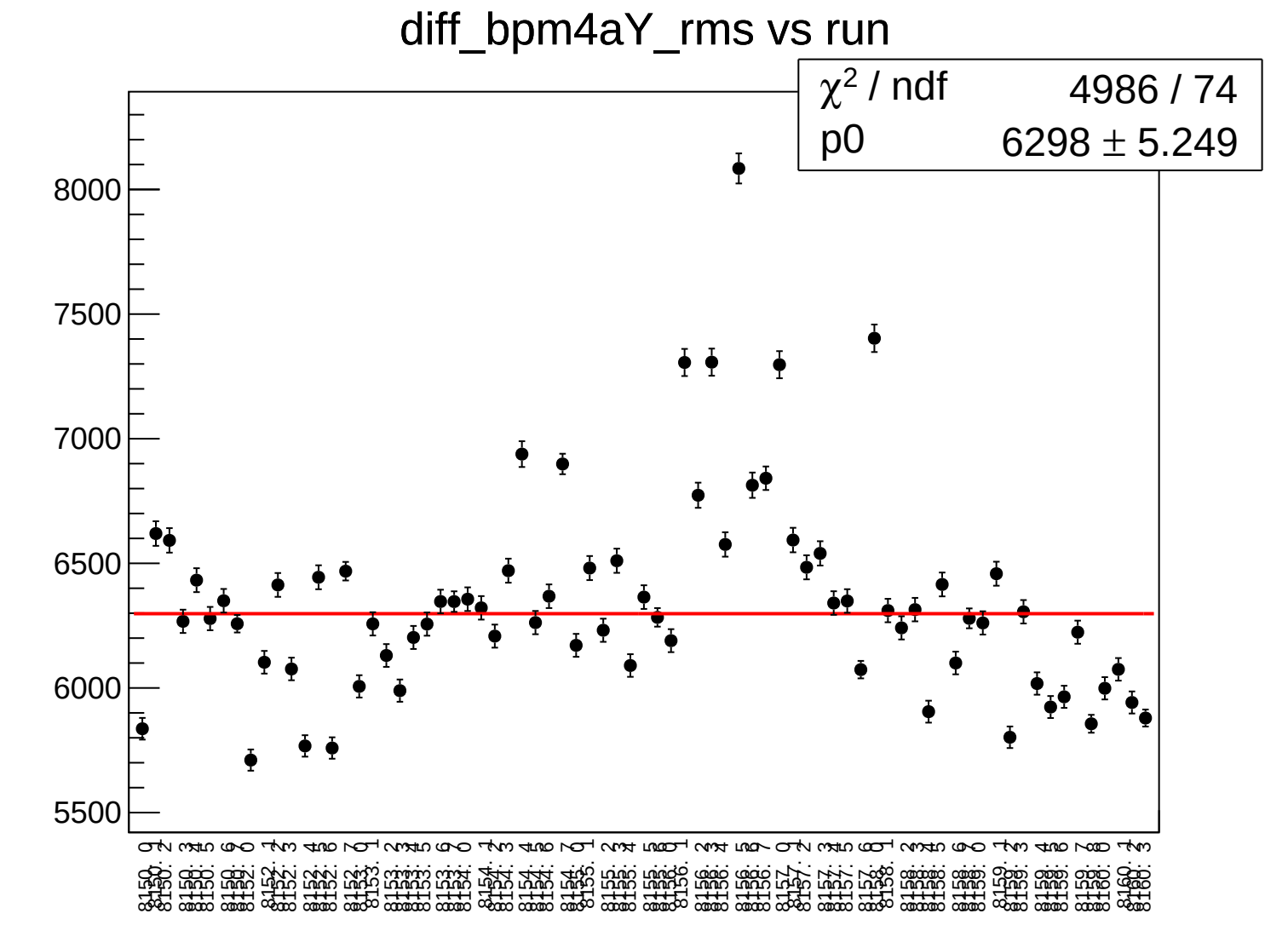

diff_bpm4aX_mean vs run
χ^2 / ndf 100.8 / 74
p0 −21.47 ± 21.71
pull
Entries 75
Mean −2418
Std Dev 2467

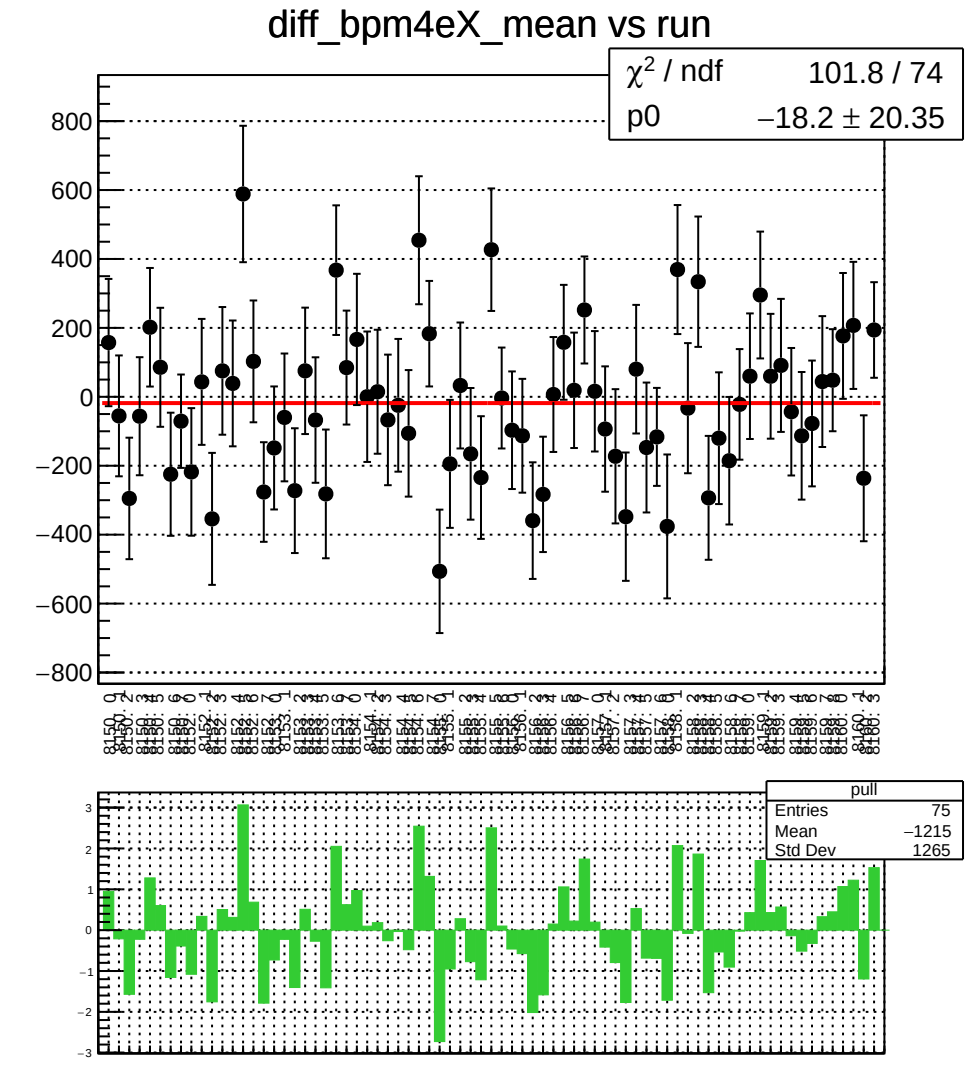

pull1D
Entries 75
Mean −0.0007984
Std Dev 1.159

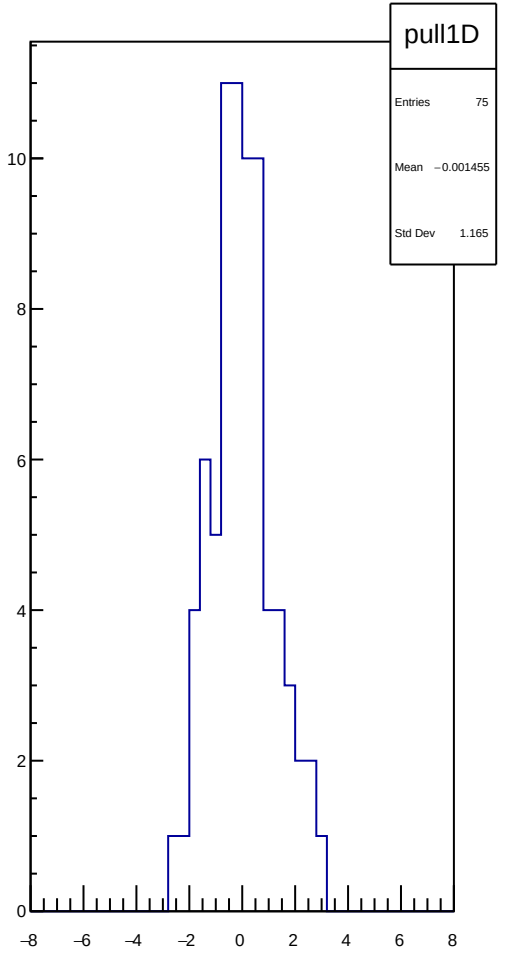

diff_bpm4aX_rms vs run
χ² / ndf 2700 / 74
p0 1.843e+04 ± 15.35
21000
20000
19000
18000
17000

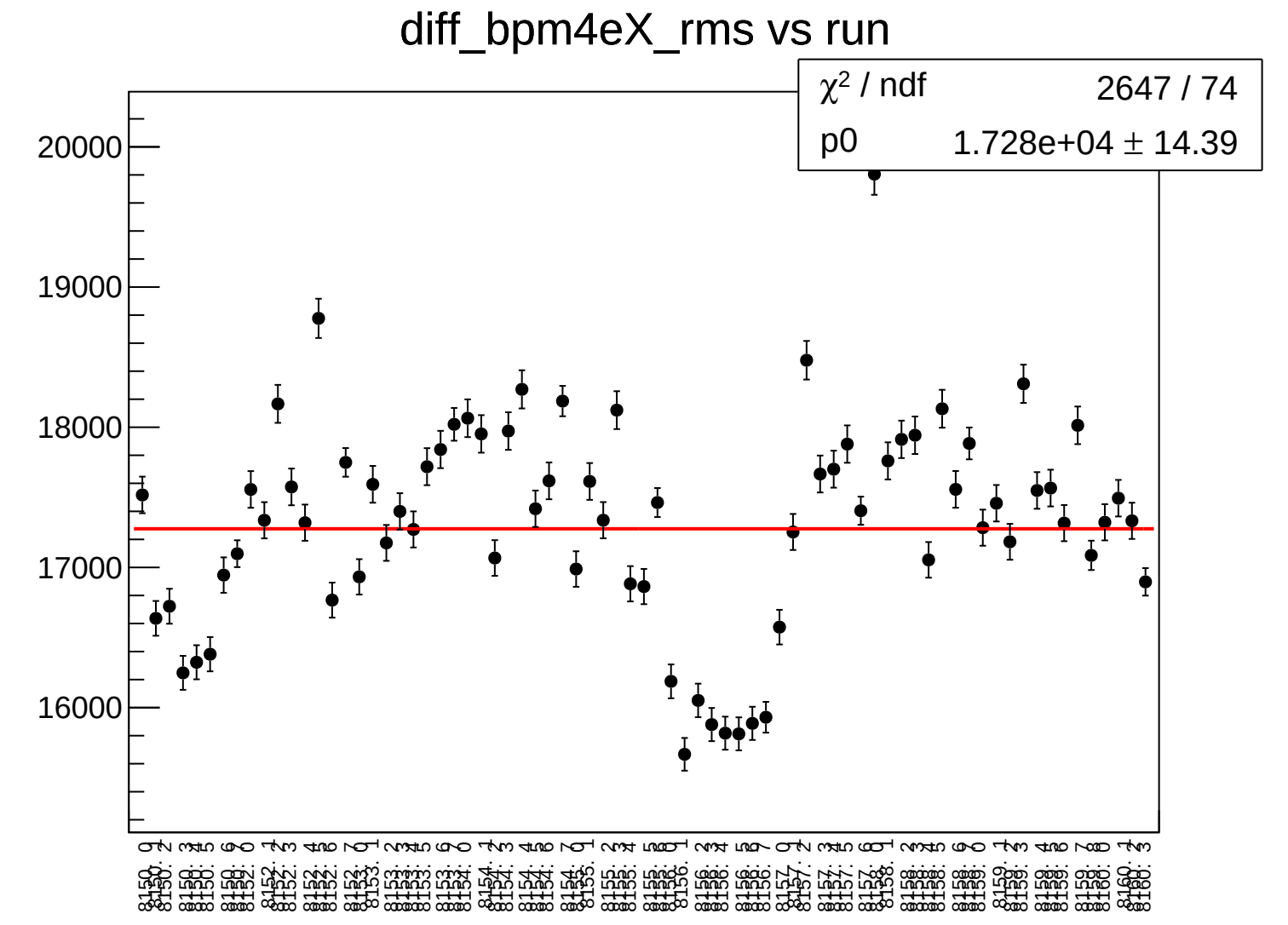

diff_bpm4aY_mean vs run
χ² / ndf 50.12 / 74
p0 7.802 ± 7.423
pull
Entries 75
Mean −353.8
Std Dev 367.1

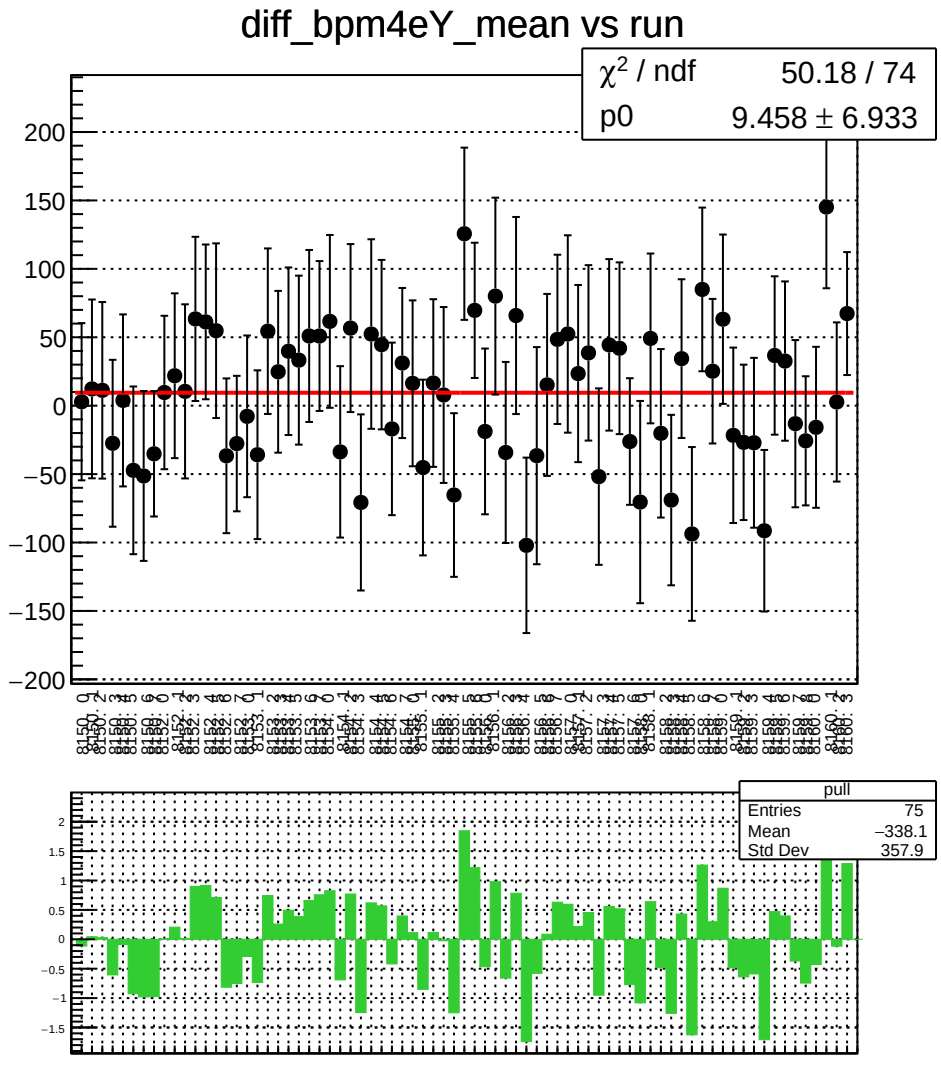

pull1D
Entries 75
Mean −0.001271
Std Dev 0.8175

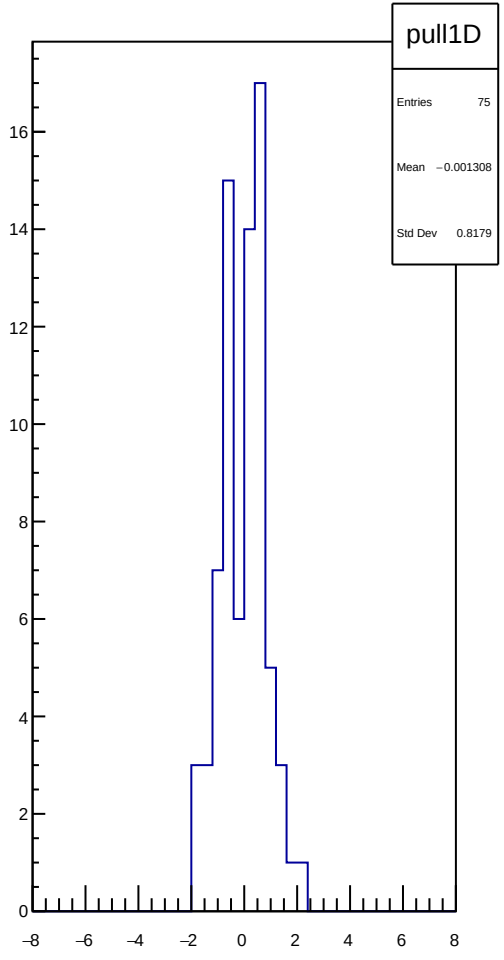

diff_bpm4aY_rms vs run
χ² / ndf 4986 / 74
p0 6298 ± 5.249
8000
7500
7000
6500
6000
5500

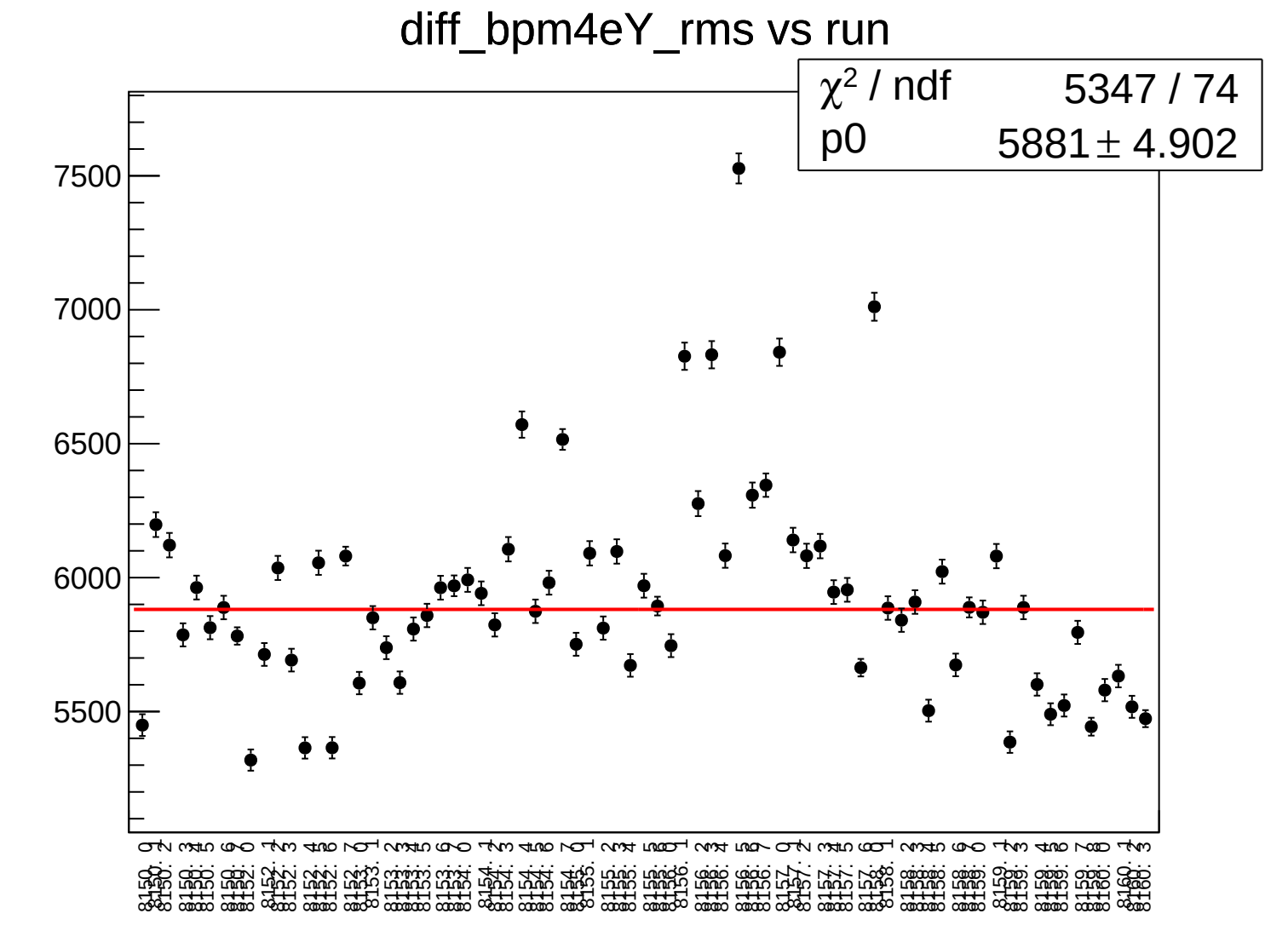

diff_bpm4eX_mean vs run
χ² / ndf 101.8 / 74
p0 −18.2 ± 20.35
pull
Entries 75
Mean −1215
Std Dev 1265

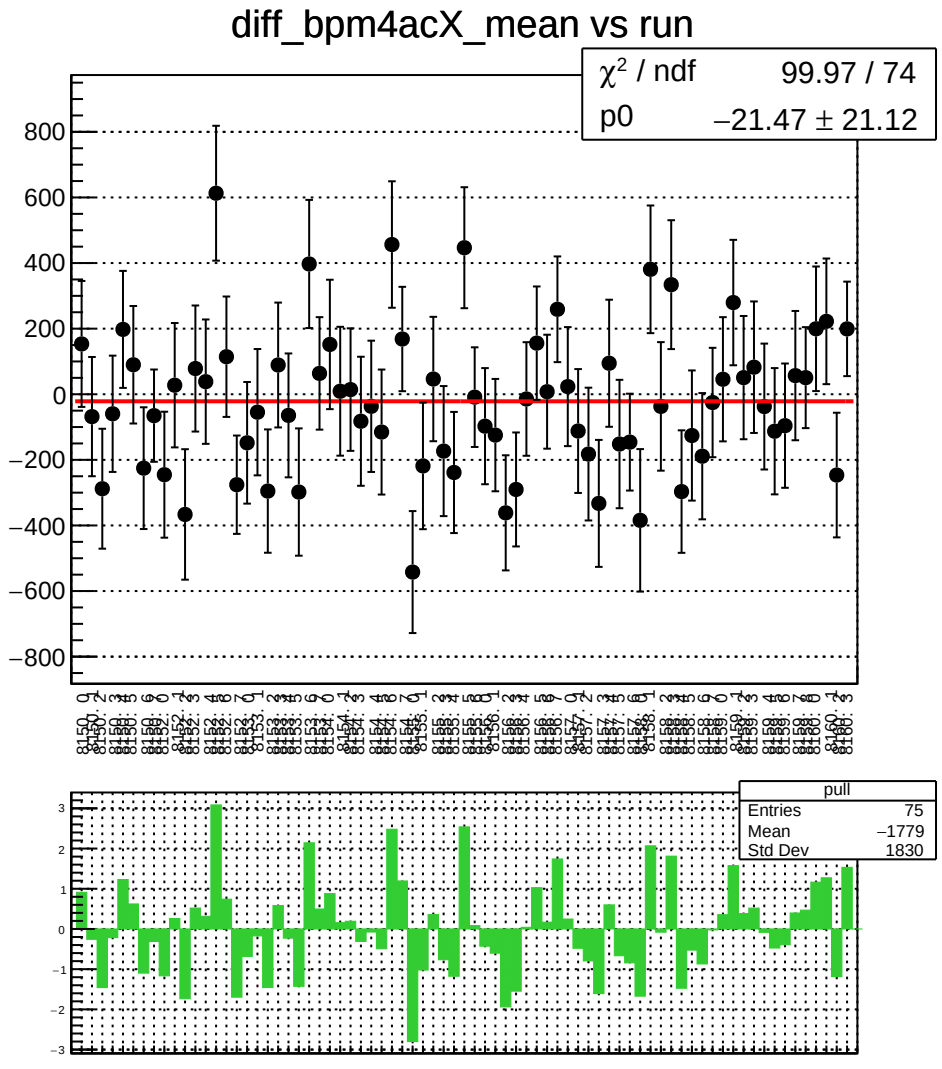

pull1D
Entries 75
Mean −0.001455
Std Dev 1.165

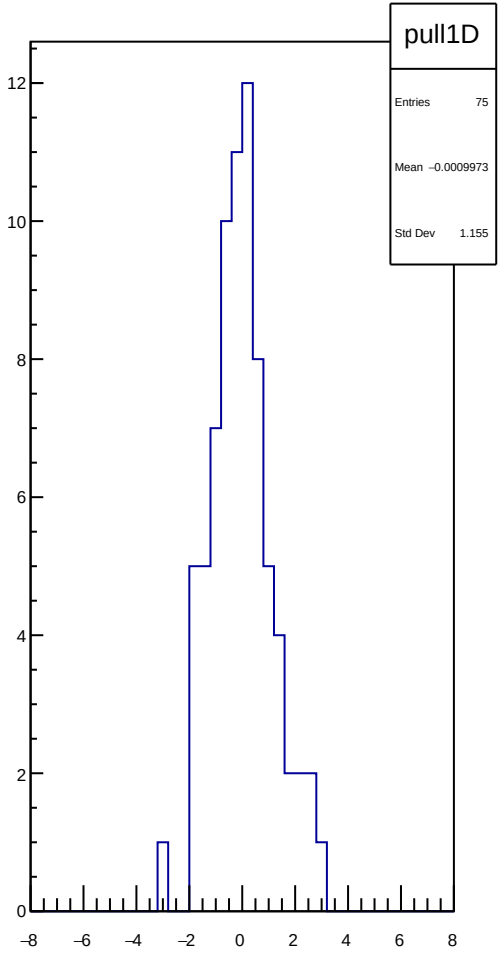

diff_bpm4eX_rms vs run
χ² / ndf 2647 / 74
p0 1.728e+04 ± 14.39
20000
19000
18000
17000
16000

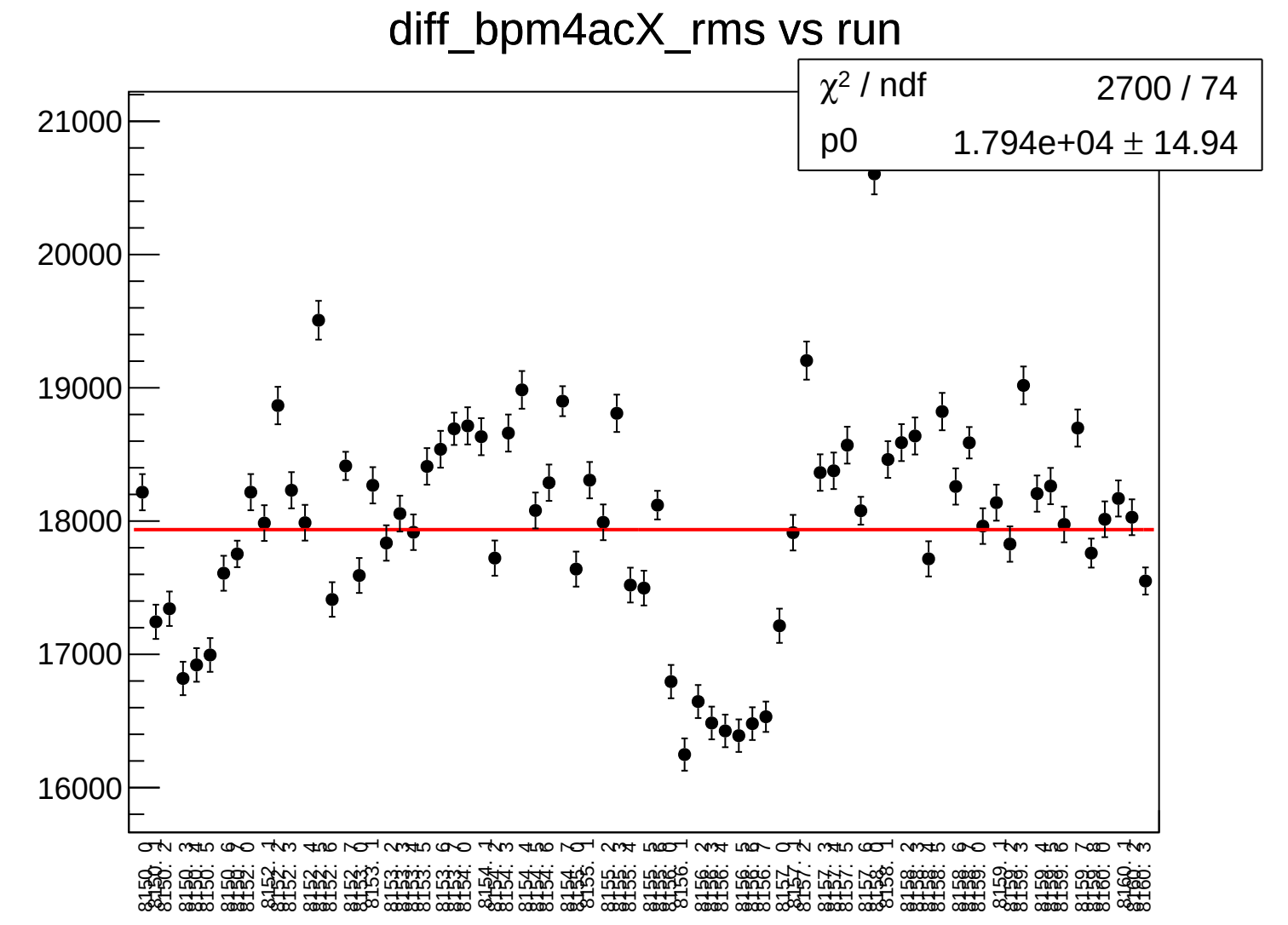

diff_bpm4eY_mean vs run
χ² / ndf 50.18 / 74
p0 9.458 ± 6.933
pull
Entries 75
Mean −338.1
Std Dev 357.9

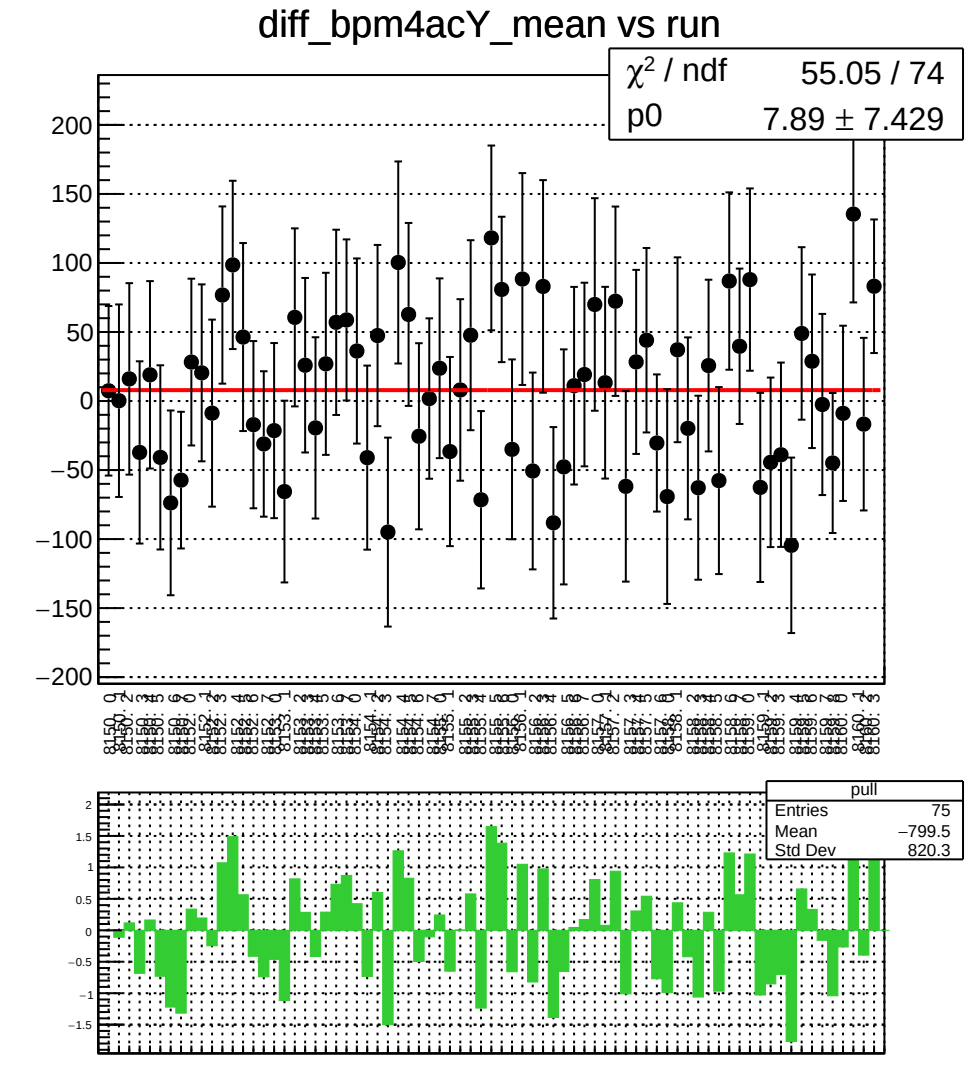

pull1D
Entries 75
Mean −0.001308
Std Dev 0.8179

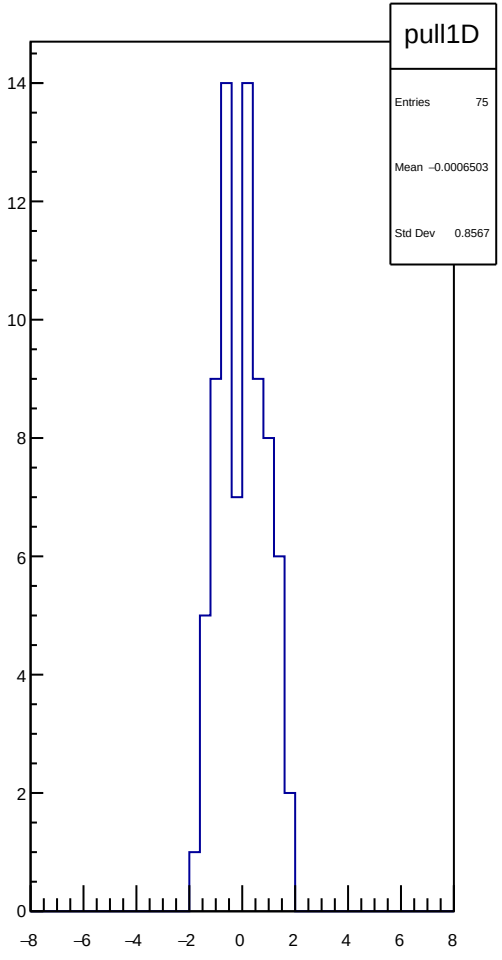

diff_bpm4eY_rms vs run
χ^2 / ndf 5347 / 74
p0 5881 ± 4.902
7500
7000
6500
6000
5500

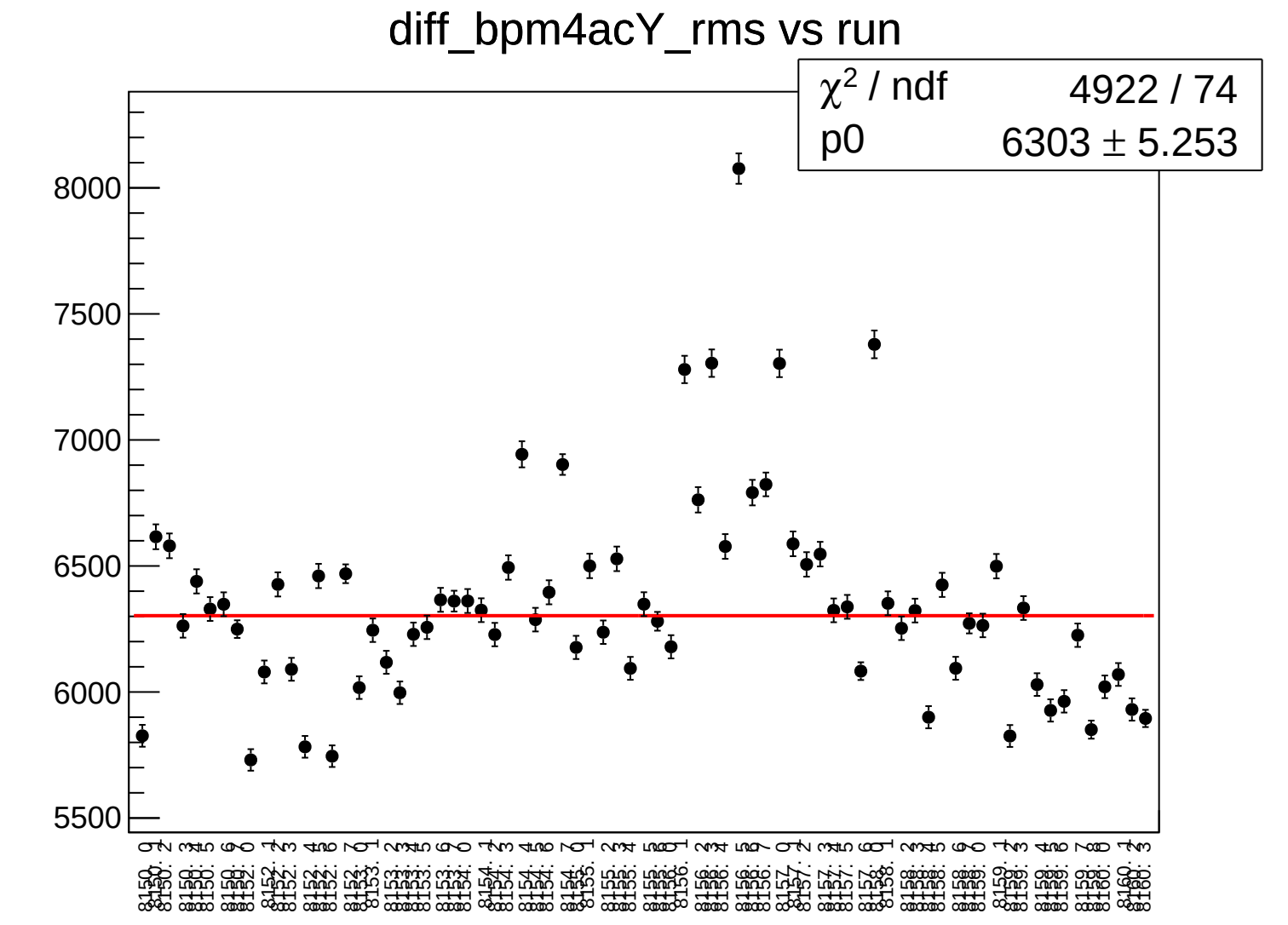

diff_bpm4acX_mean vs run
χ² / ndf 99.97 / 74
p0 −21.47 ± 21.12
pull
Entries 75
Mean −1779
Std Dev 1830

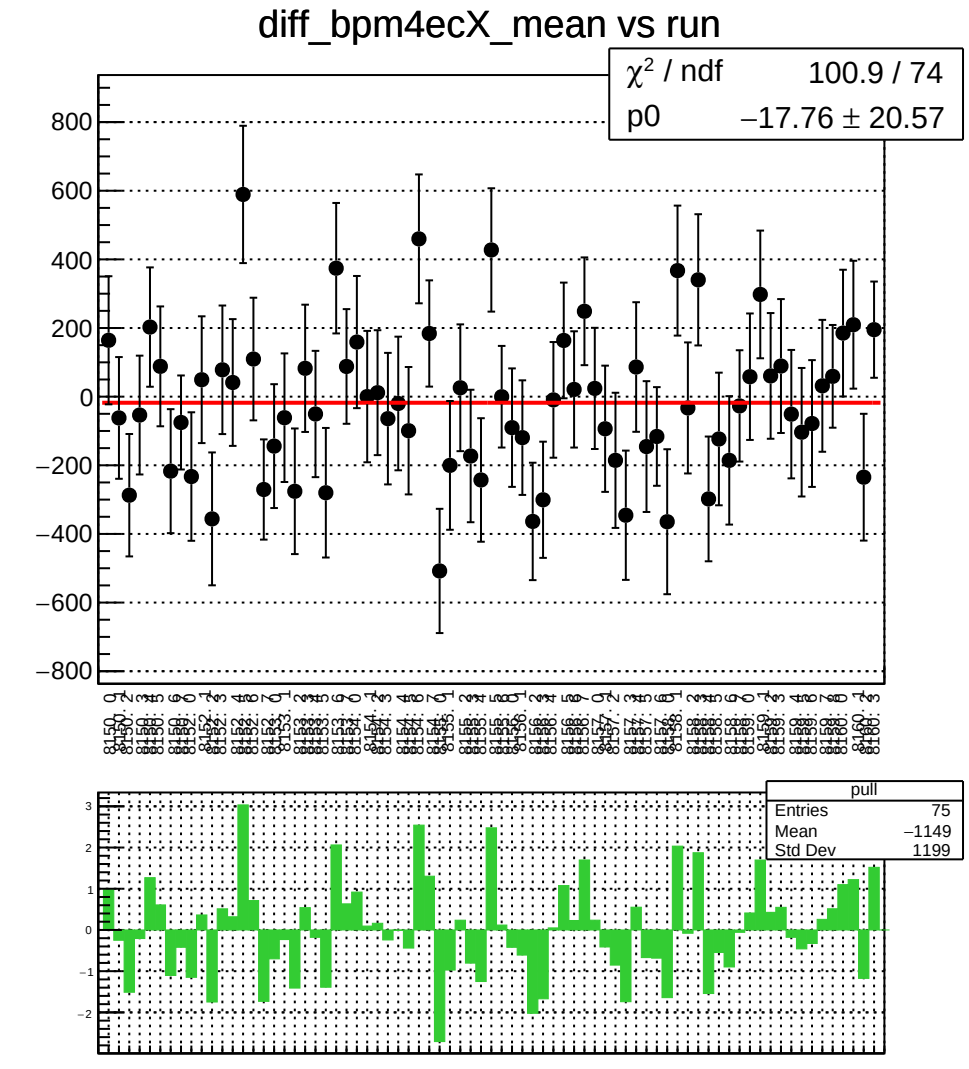

pull1D
Entries 75
Mean −0.0009973
Std Dev 1.155

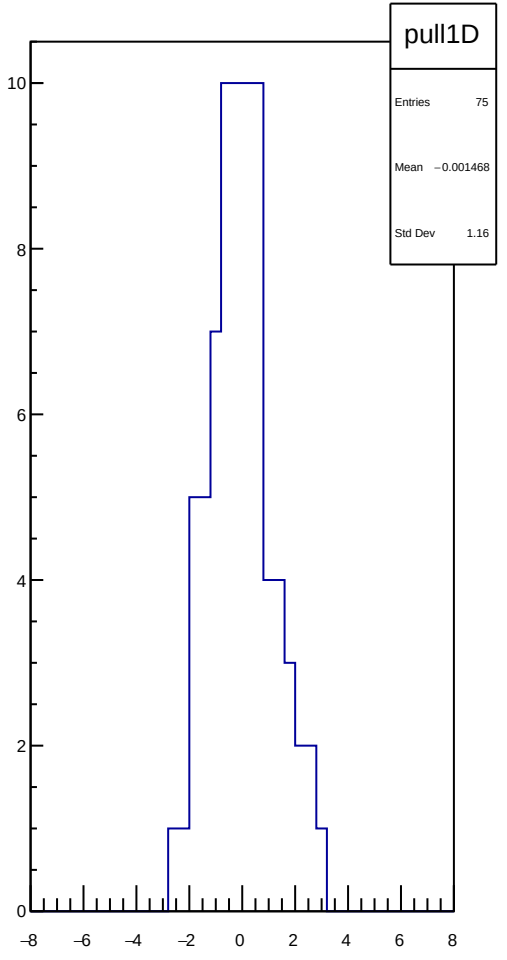

diff_bpm4acX_rms vs run
χ² / ndf 2700 / 74
p0 1.794e+04 ± 14.94
21000
20000
19000
18000
17000
16000

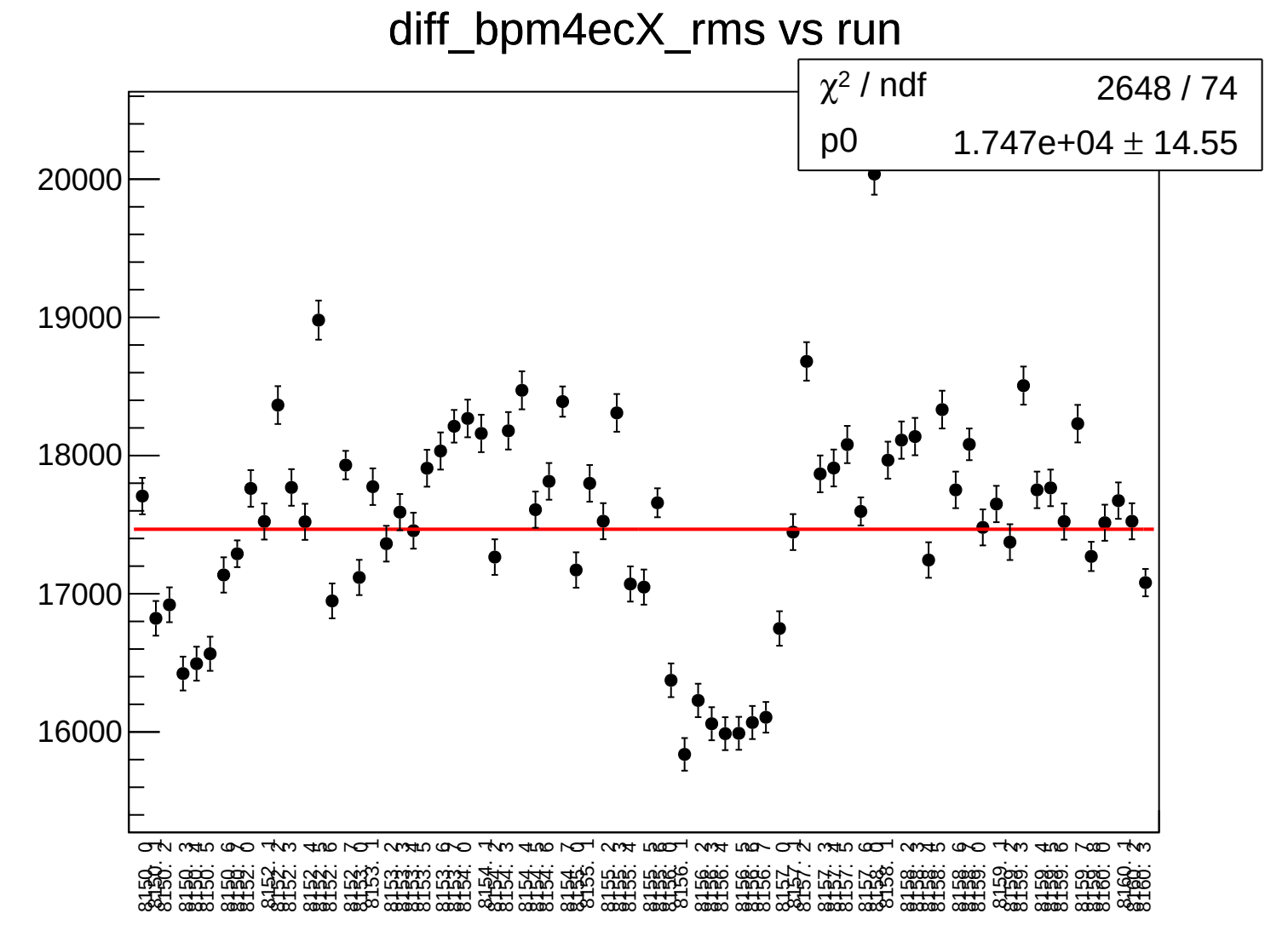

diff_bpm4acY_mean vs run
χ² / ndf 55.05 / 74
p0 7.89 ± 7.429
pull
Entries 75
Mean −799.5
Std Dev 820.3

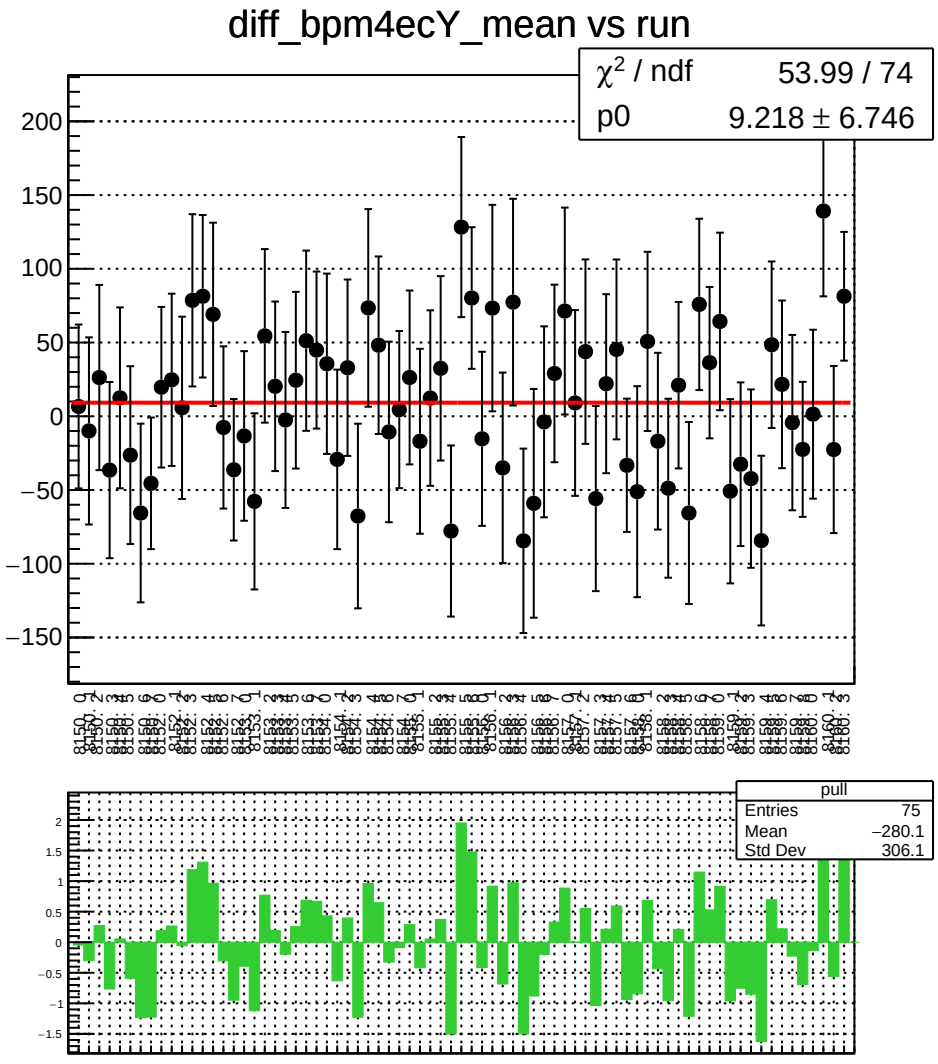

pull1D
Entries 75
Mean −0.0006503
Std Dev 0.8567

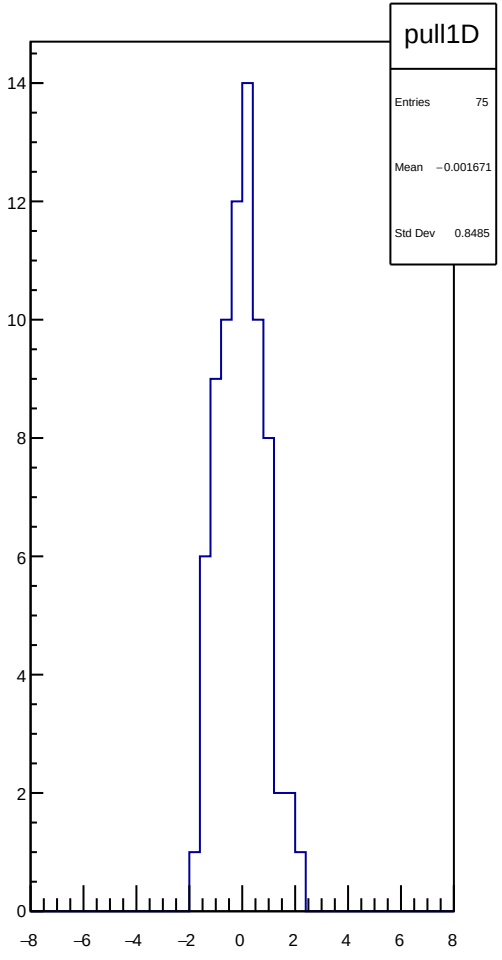

diff_bpm4acY_rms vs run
χ^2 / ndf 4922 / 74
p0 6303 ± 5.253
8000
7500
7000
6500
6000
5500

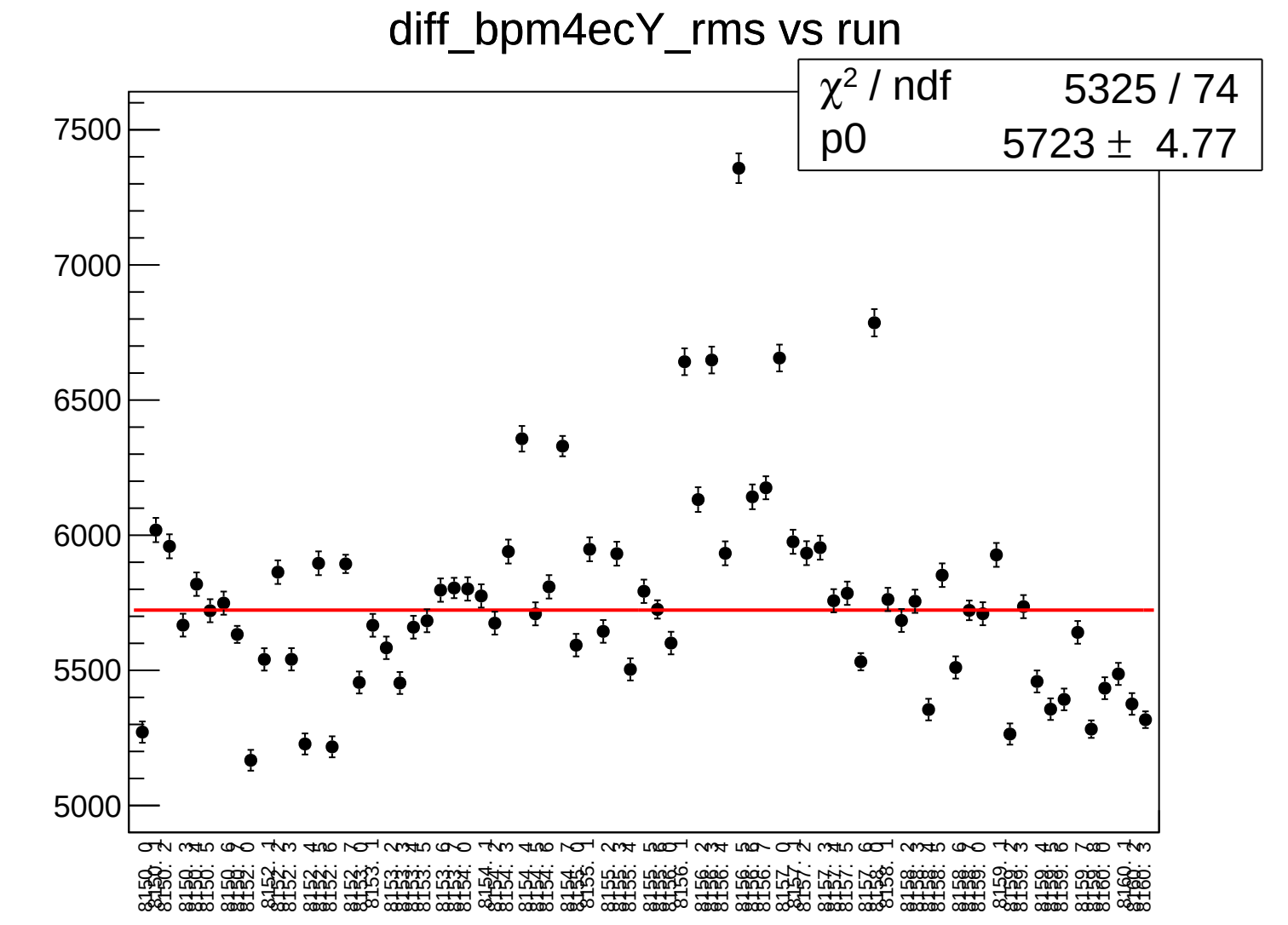

diff_bpm4ecX_mean vs run
χ² / ndf 100.9 / 74
p0 −17.76 ± 20.57
pull
Entries 75
Mean −1149
Std Dev 1199

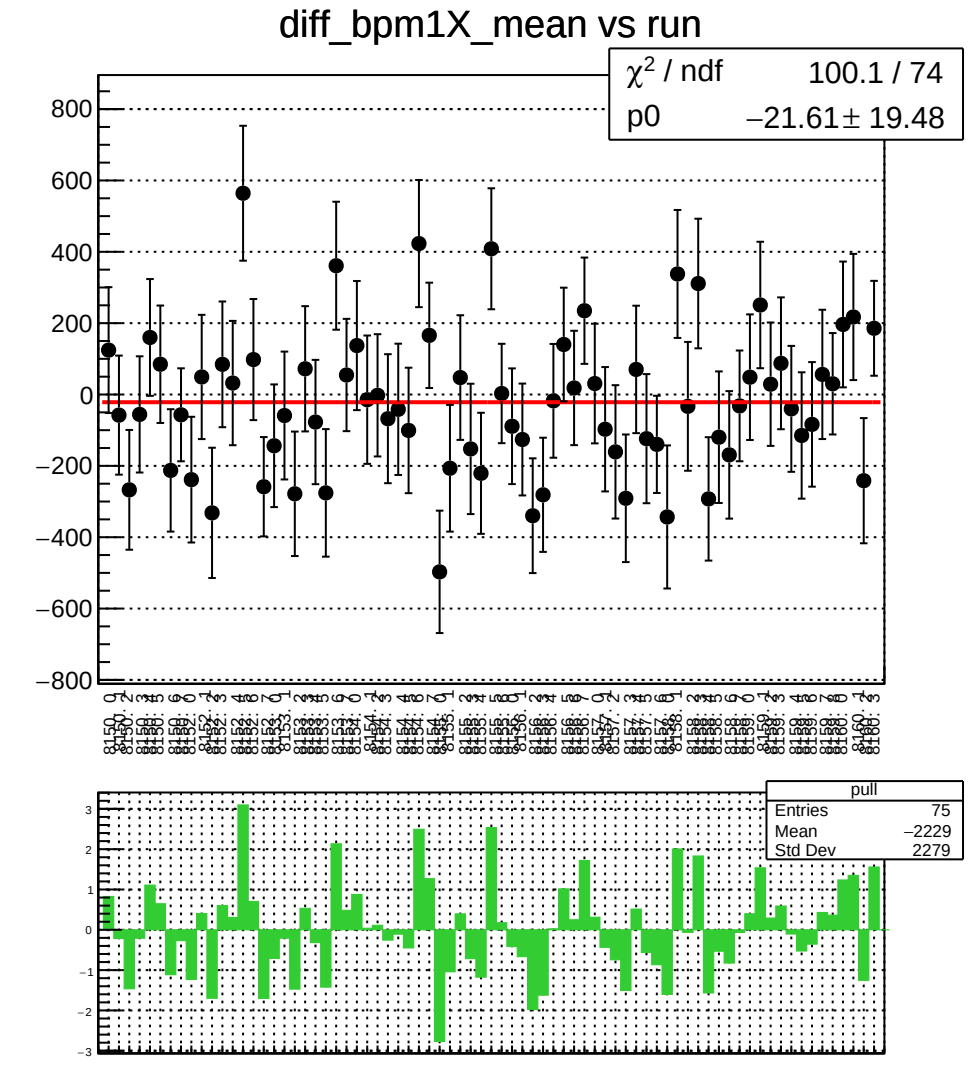

pull1D
Entries 75
Mean −0.001468
Std Dev 1.16

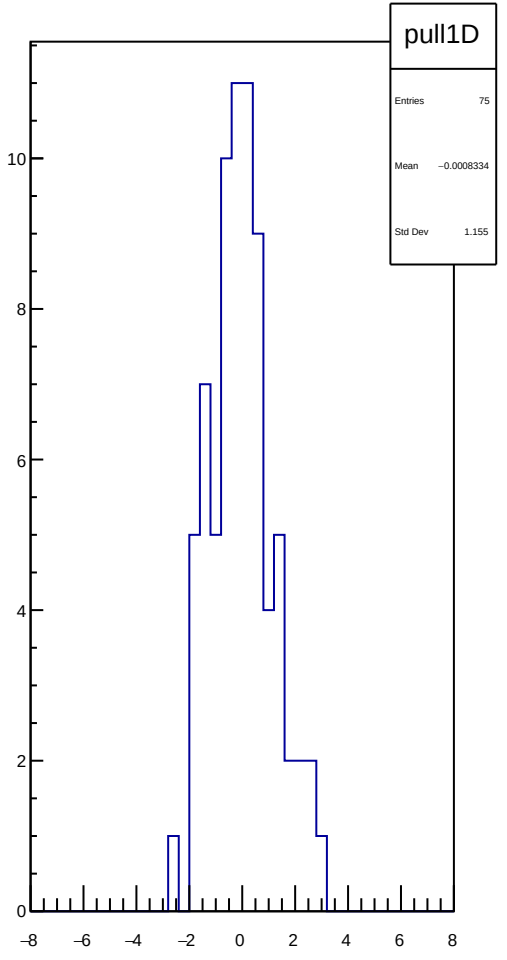

diff_bpm4ecX_rms vs run
χ² / ndf 2648 / 74
p0 1.747e+04 ± 14.55
20000
19000
18000
17000
16000

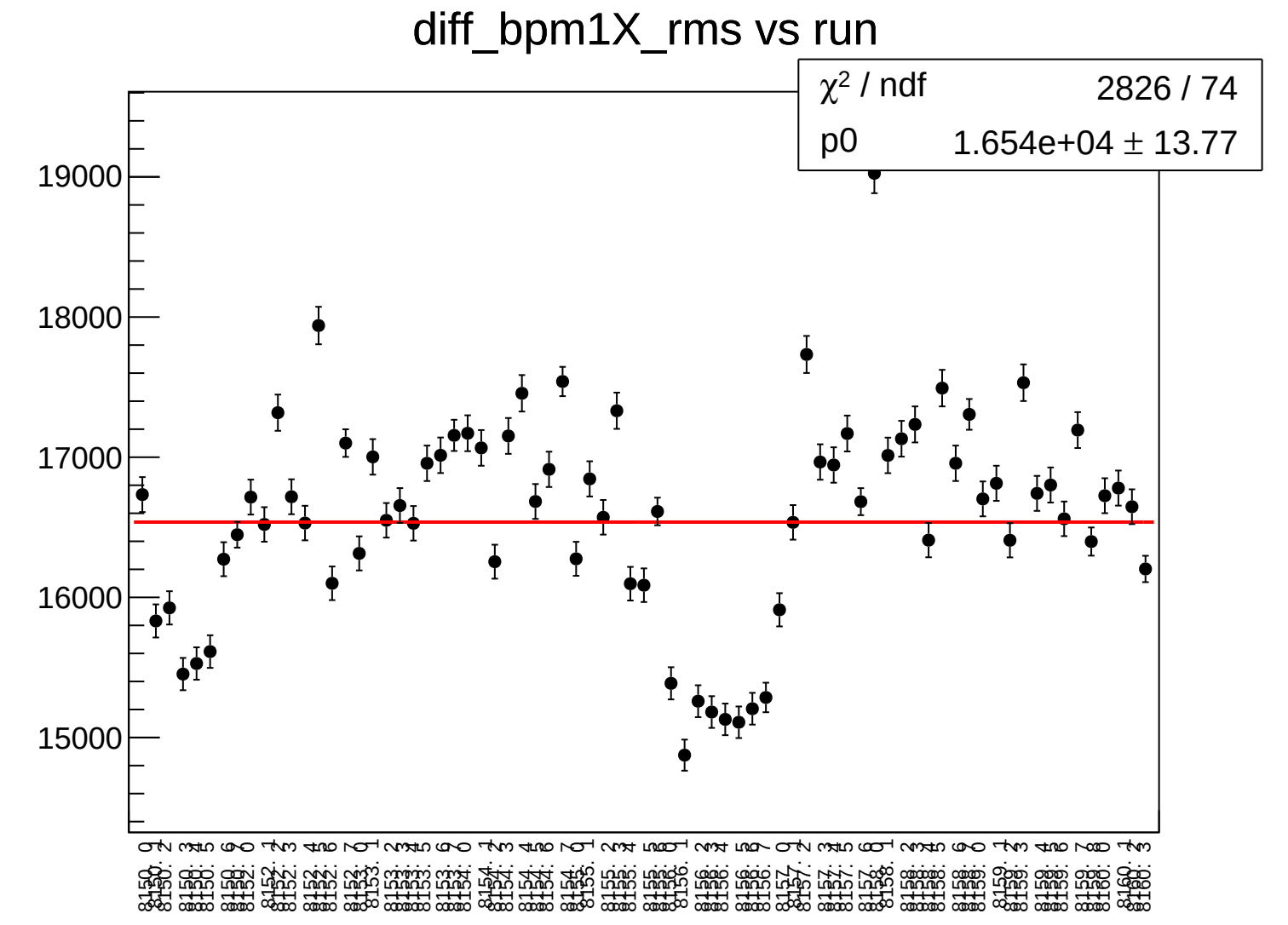

diff_bpm4ecY_mean vs run
χ^2 / ndf 53.99 / 74
p0 9.218 ± 6.746
pull
Entries 75
Mean −280.1
Std Dev 306.1

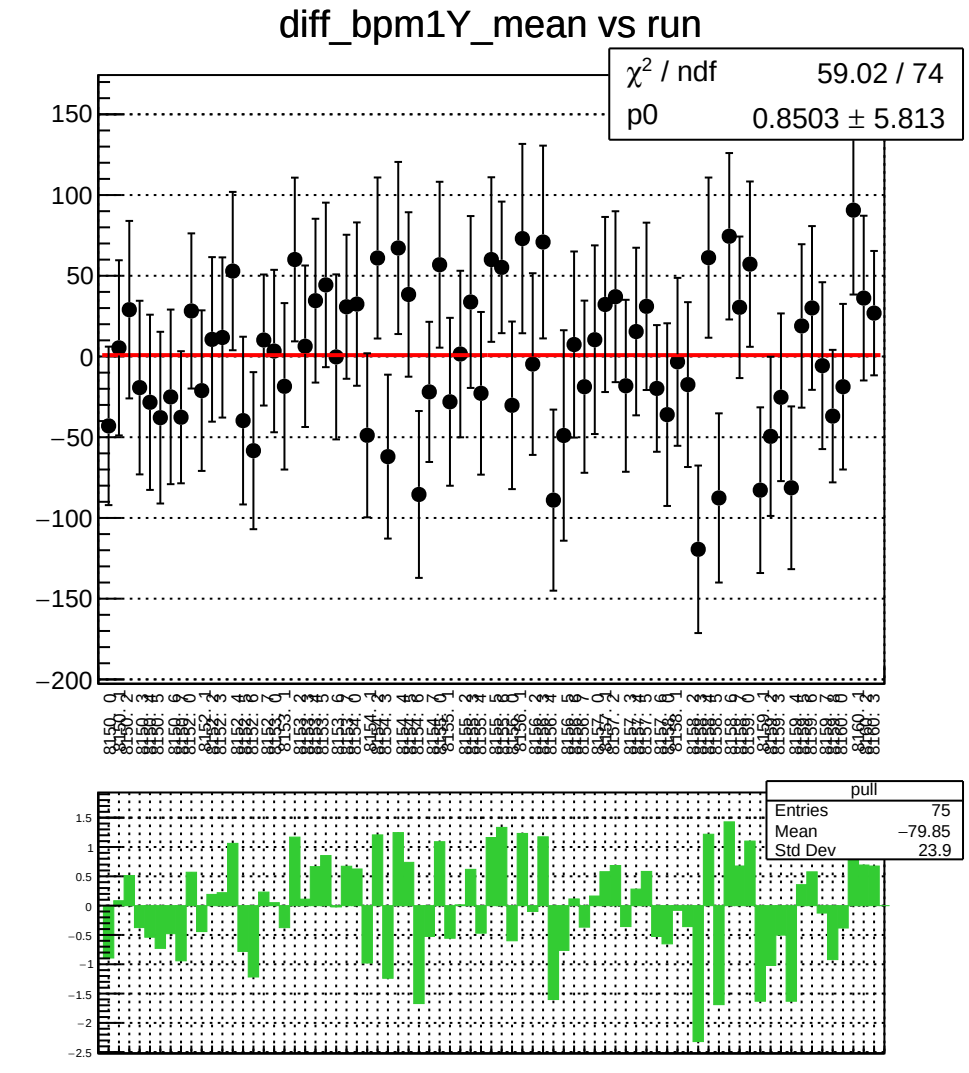

pull1D
Entries 75
Mean −0.001671
Std Dev 0.8485

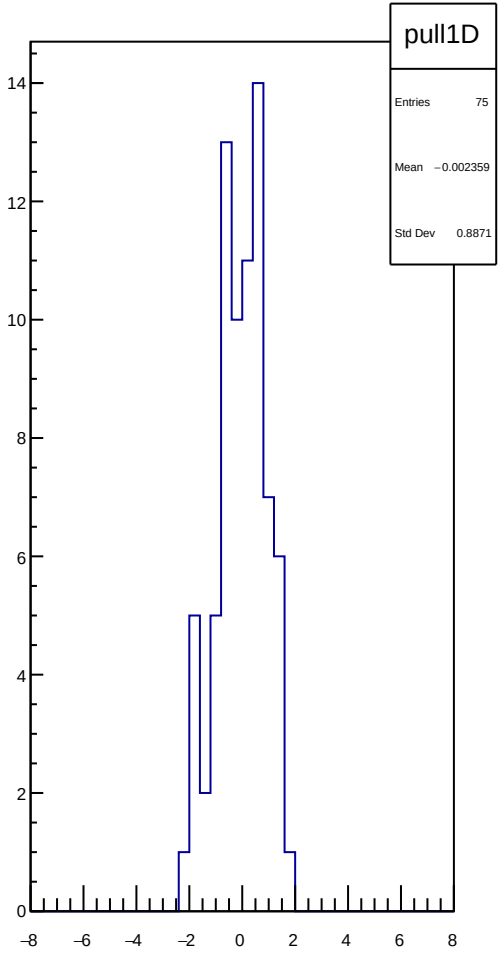

diff_bpm4ecY_rms vs run
χ² / ndf 5325 / 74
p0 5723 ± 4.77
7500
7000
6500
6000
5500
5000

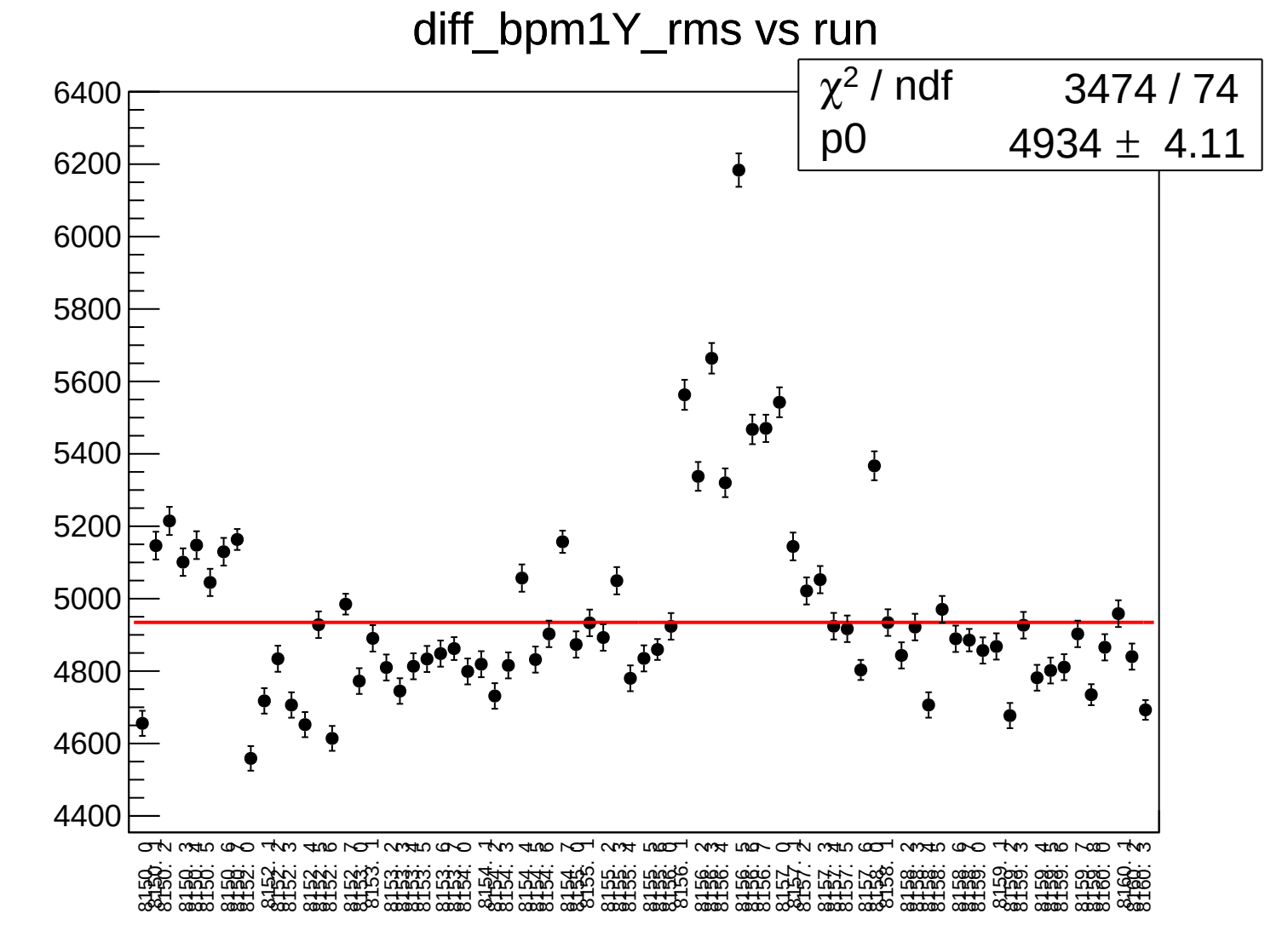

diff_bpm1X_mean vs run
χ² / ndf 100.1 / 74
p0 −21.61 ± 19.48
pull
Entries 75
Mean −2229
Std Dev 2279

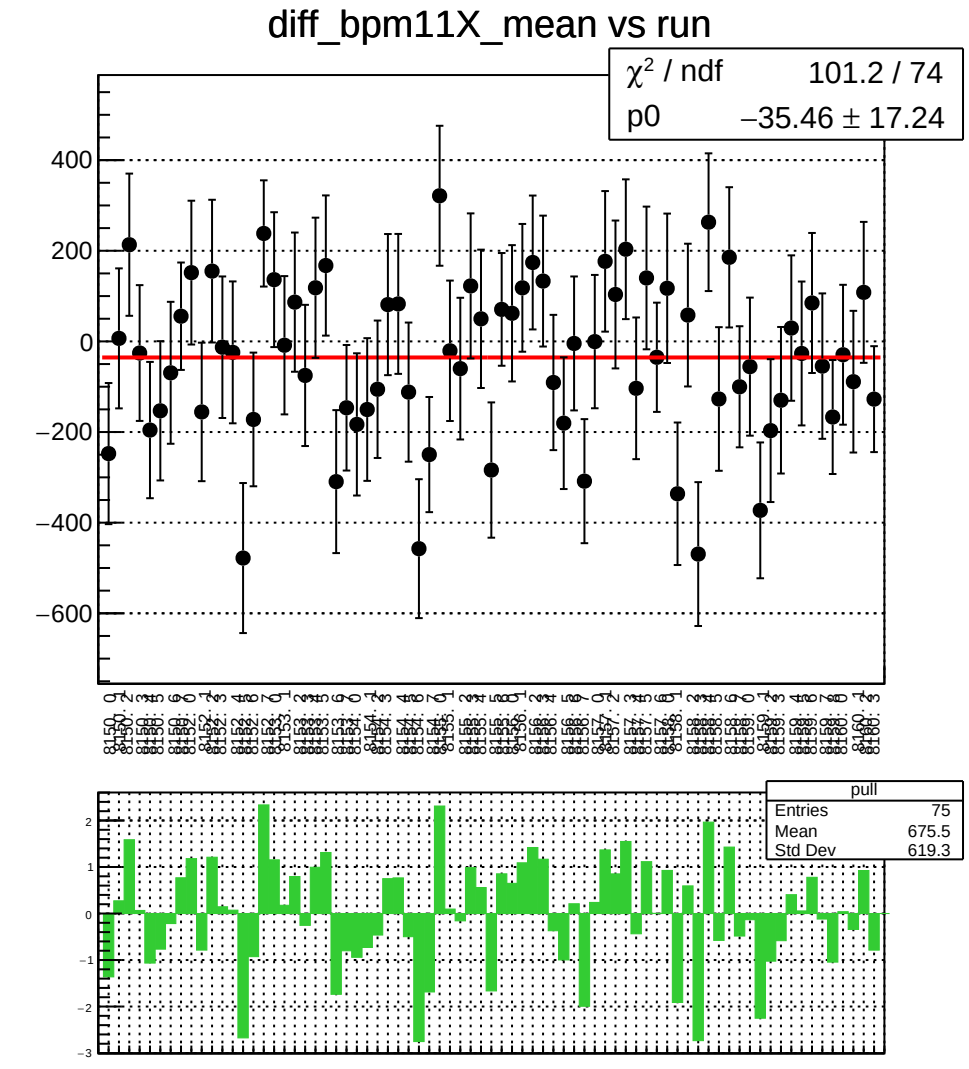

pull1D
Entries 75
Mean −0.0008334
Std Dev 1.155

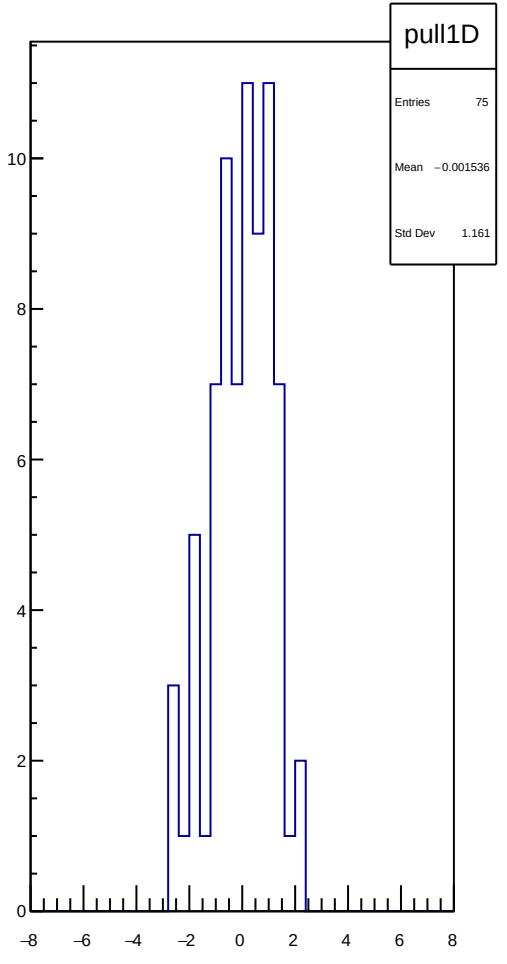

diff_bpm1X_rms vs run
χ² / ndf 2826 / 74
p0 1.654e+04 ± 13.77
19000
18000
17000
16000
15000

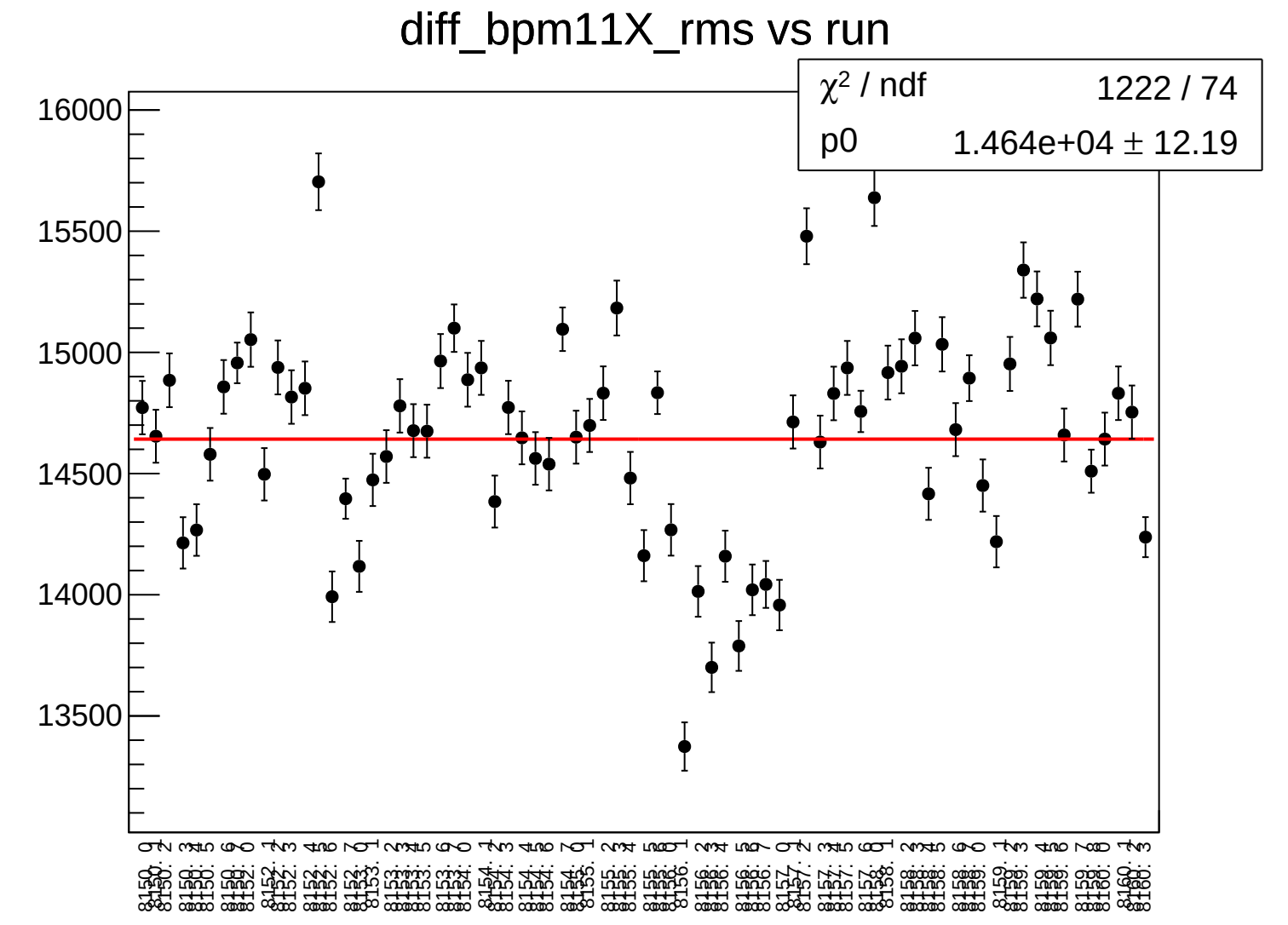

diff_bpm1Y_mean vs run
χ² / ndf 59.02 / 74
p0 0.8503 ± 5.813
pull
Entries 75
Mean −79.85
Std Dev 23.9

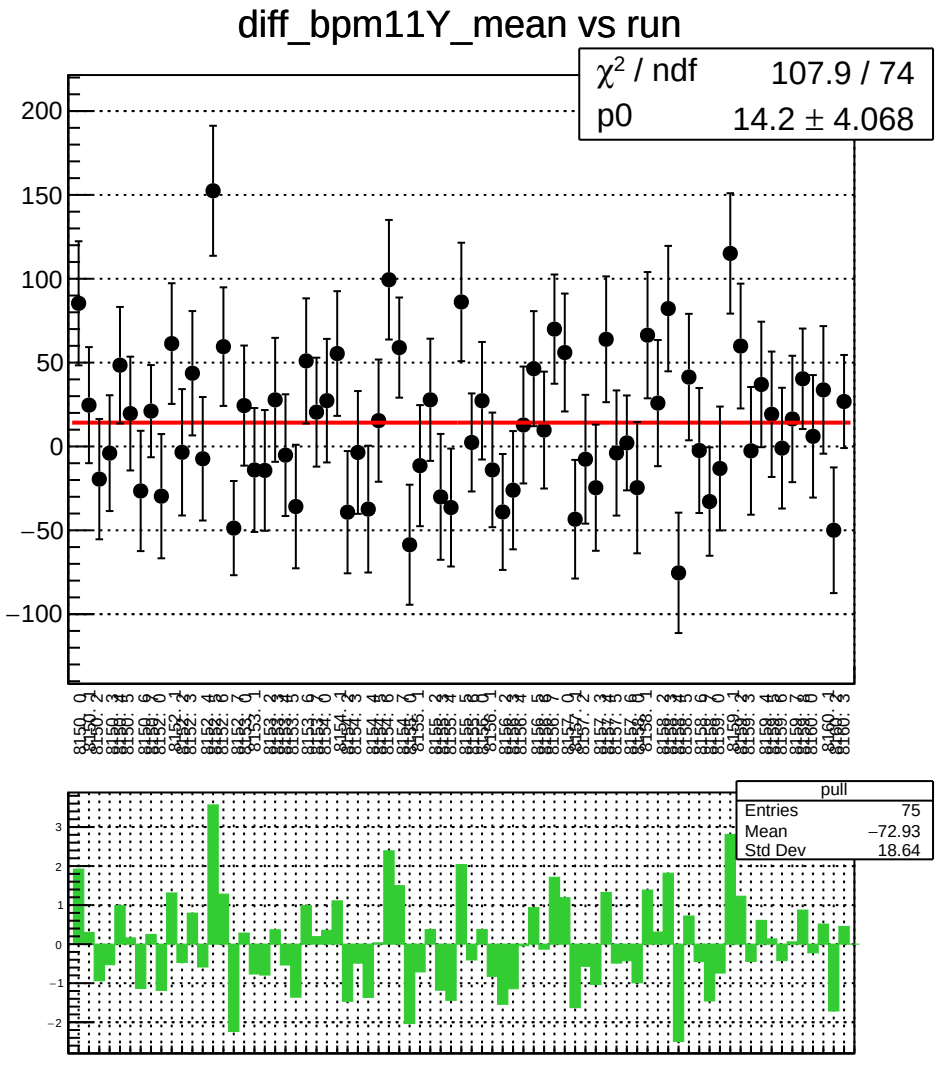

pull1D
Entries 75
Mean −0.002359
Std Dev 0.8871

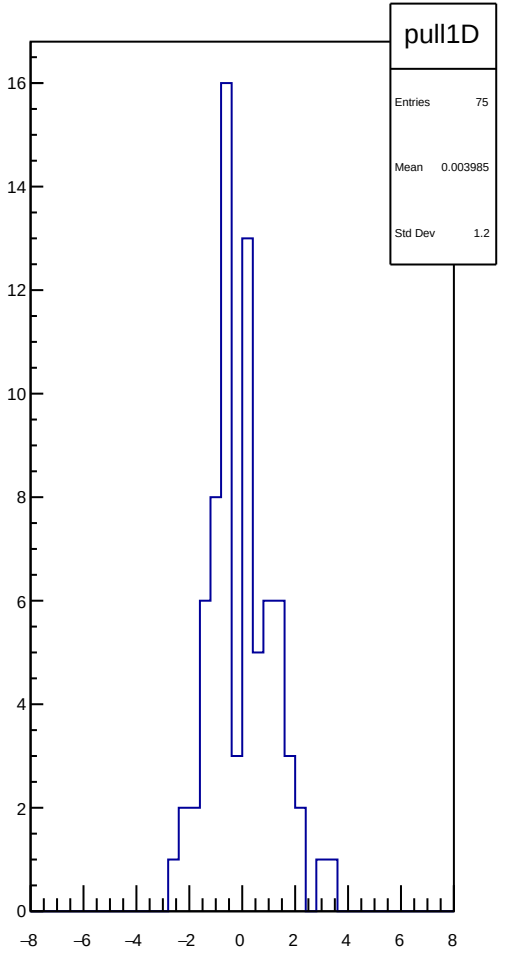

diff_bpm1Y_rms vs run
χ² / ndf 3474 / 74
p0 4934 ± 4.11
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

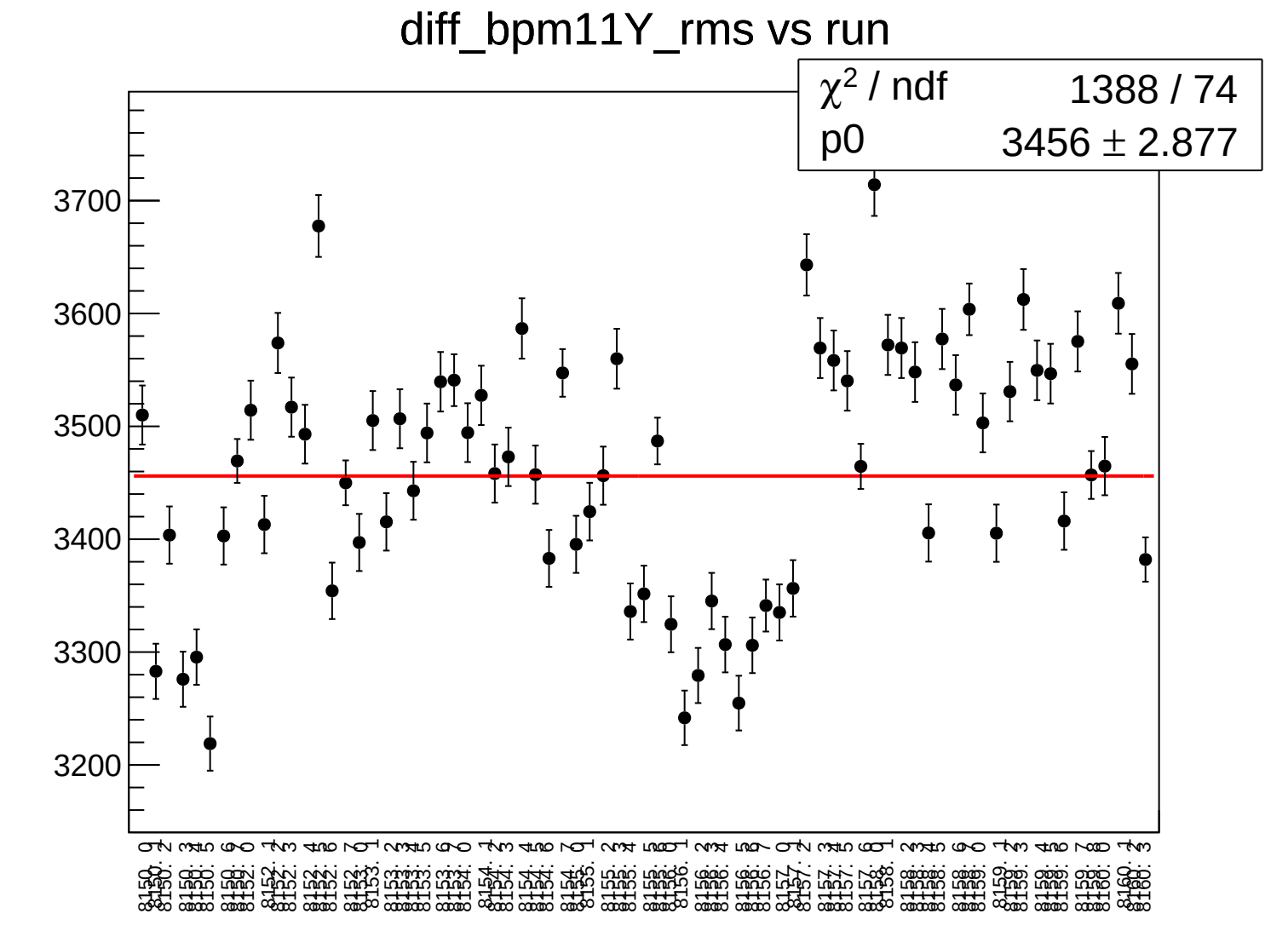

diff_bpm11X_mean vs run
χ² / ndf 101.2 / 74
p0 −35.46 ± 17.24
400
200
0
−200
−400
−600
pull
Entries 75
Mean 675.5
Std Dev 619.3
2
1
0
−1
−2
−3

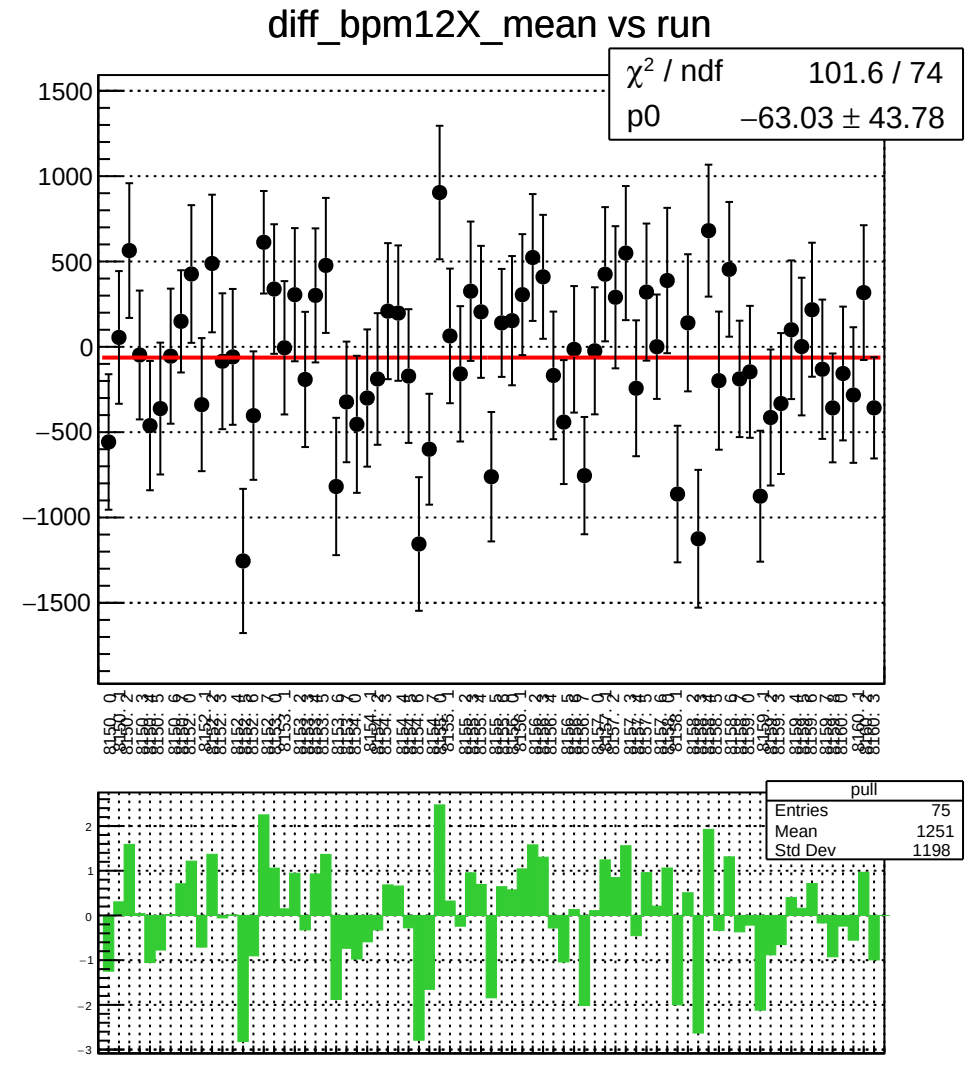

pull1D
Entries 75
Mean −0.001536
Std Dev 1.161
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

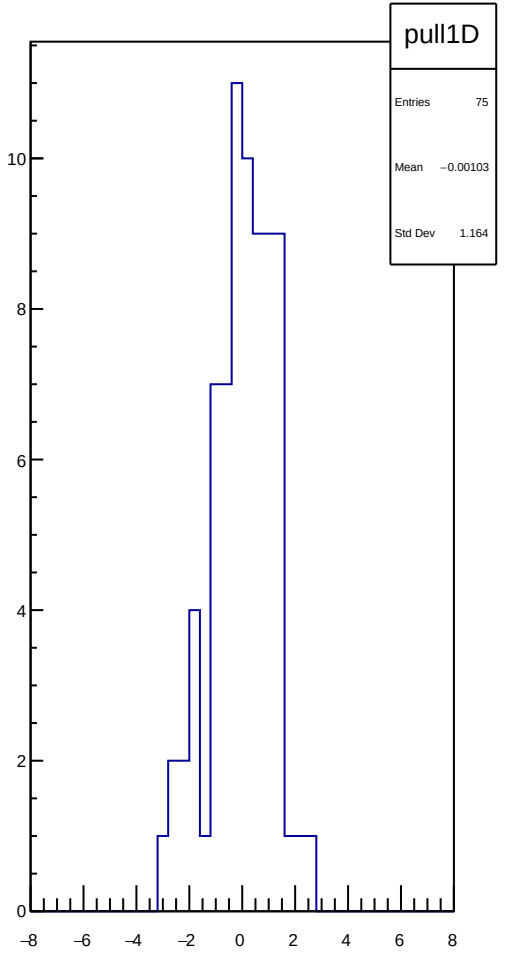

diff_bpm11X_rms vs run
χ² / ndf 1222 / 74
p0 1.464e+04 ± 12.19
16000
15500
15000
14500
14000
13500

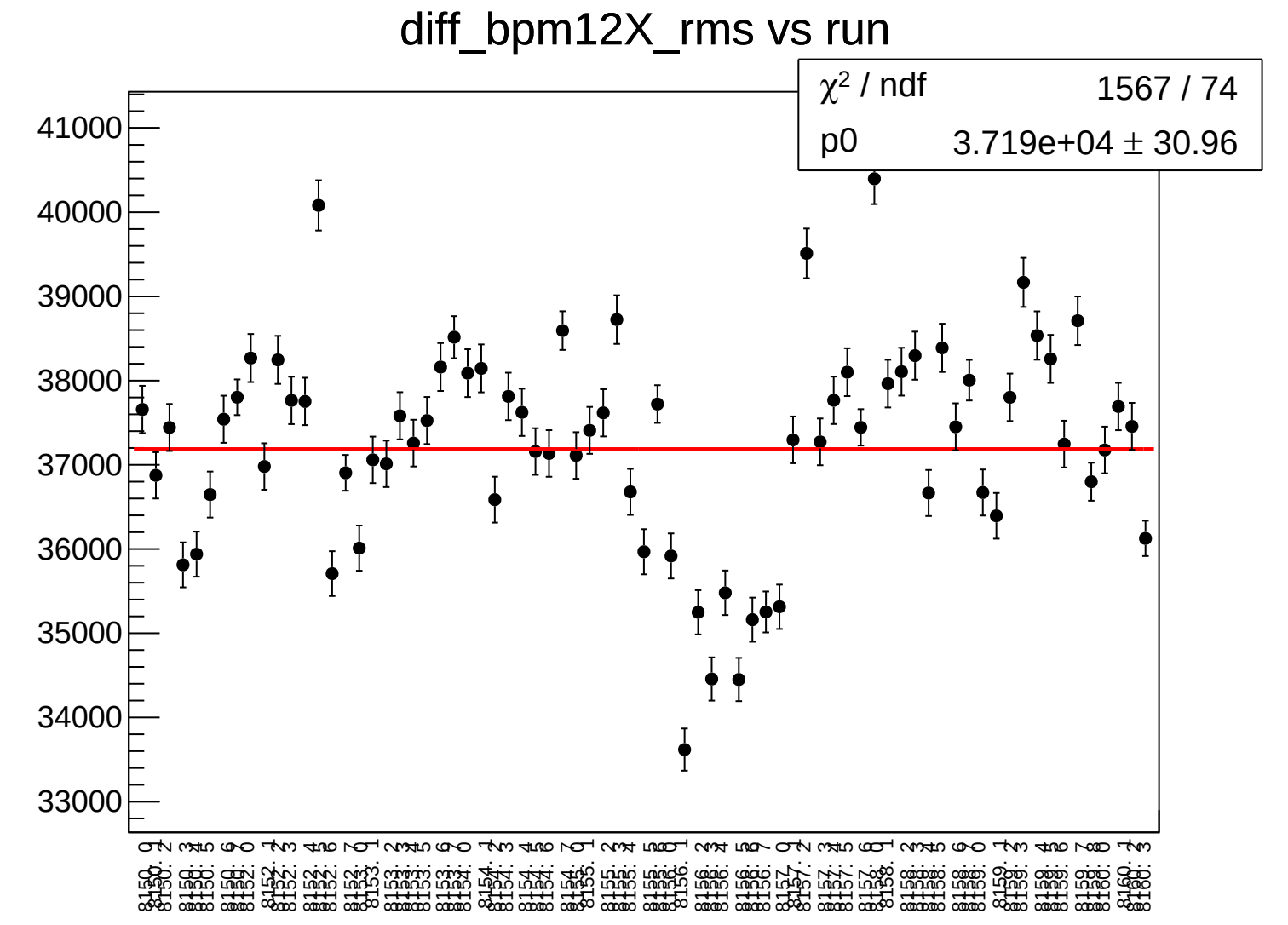

diff_bpm11Y_mean vs run
χ² / ndf 107.9 / 74
p0 14.2 ± 4.068
pull
Entries 75
Mean −72.93
Std Dev 18.64

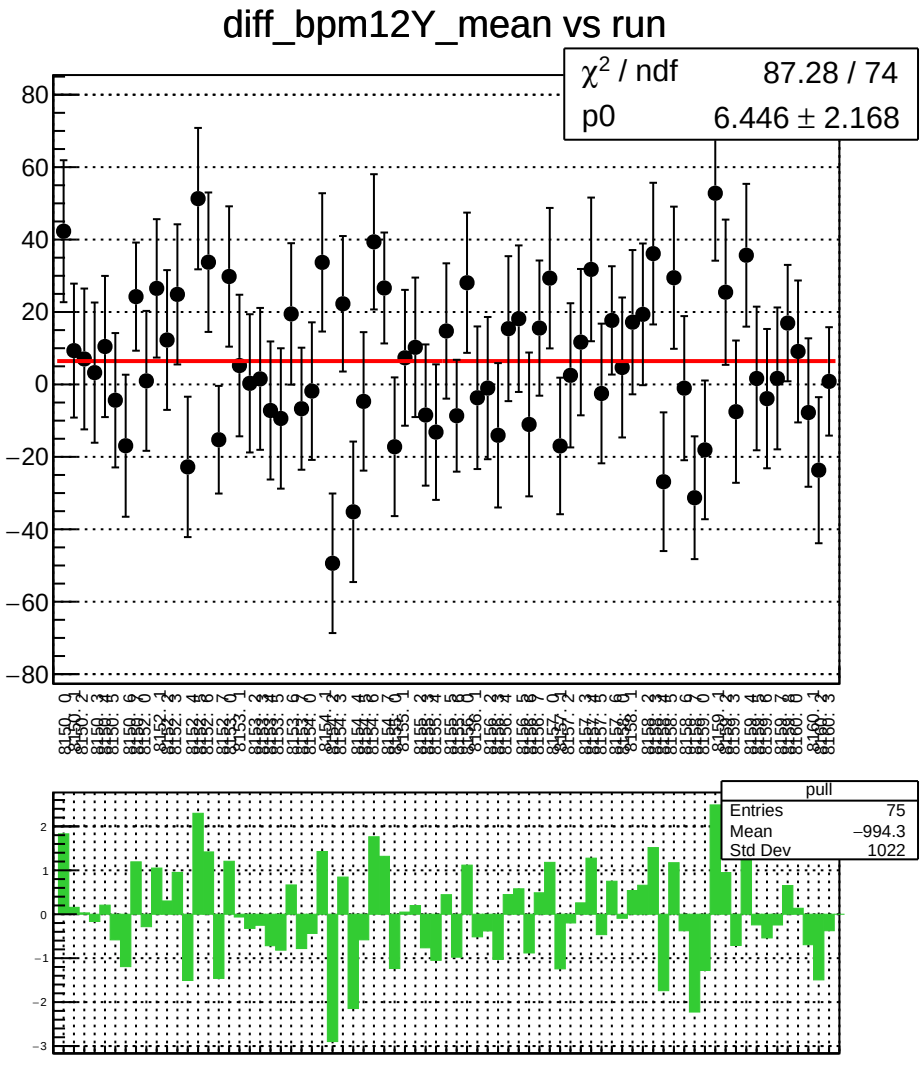

pull1D
Entries 75
Mean 0.003985
Std Dev 1.2

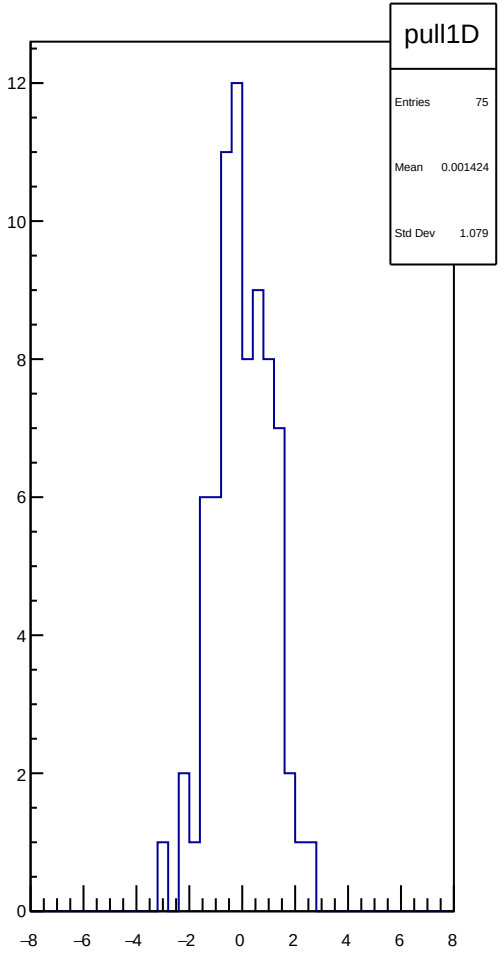

diff_bpm11Y_rms vs run
χ² / ndf 1388 / 74
p0 3456 ± 2.877
3700
3600
3500
3400
3300
3200

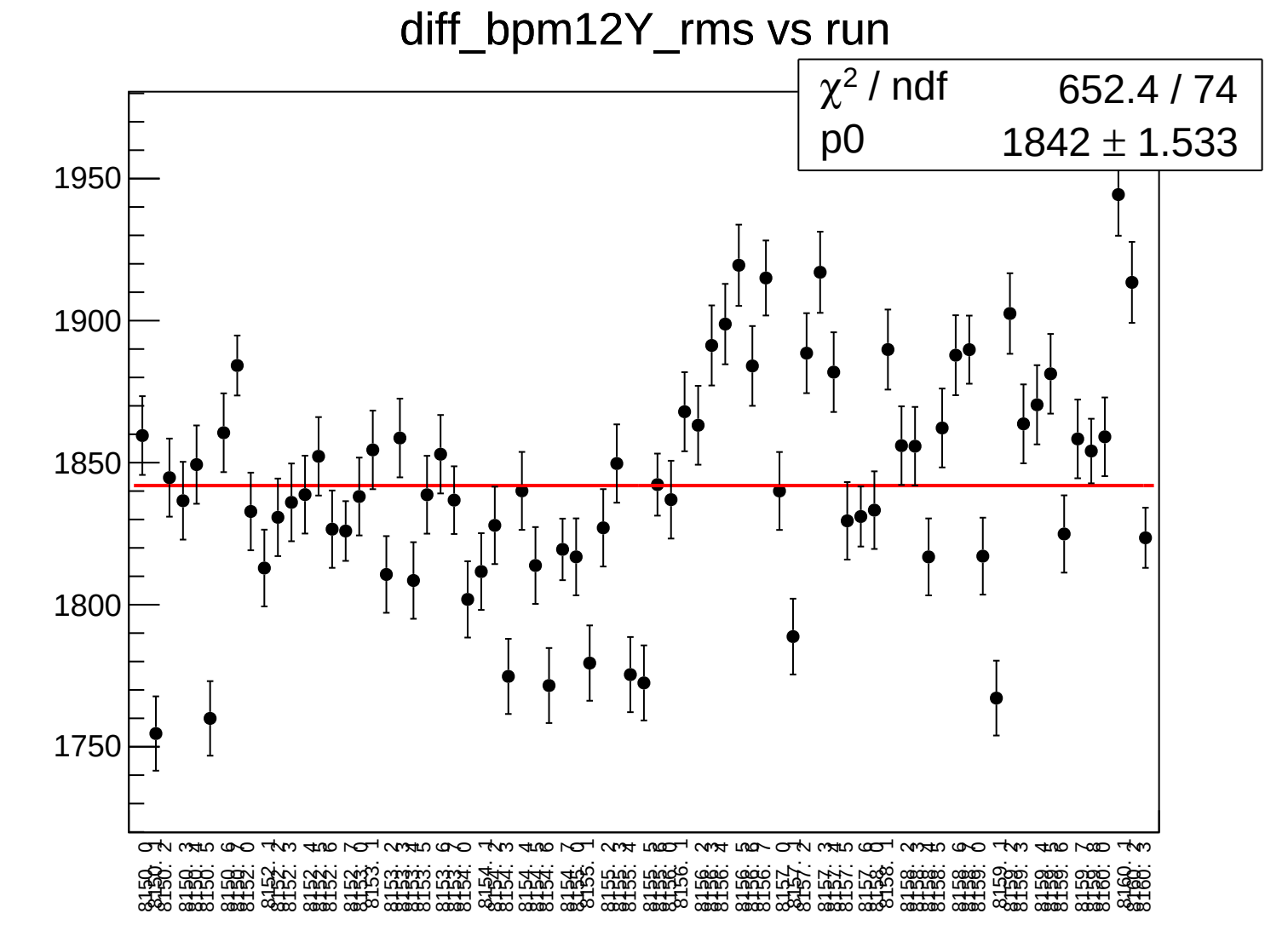

diff_bpm12X_mean vs run
χ² / ndf 101.6 / 74
p0 −63.03 ± 43.78
pull
Entries 75
Mean 1251
Std Dev 1198

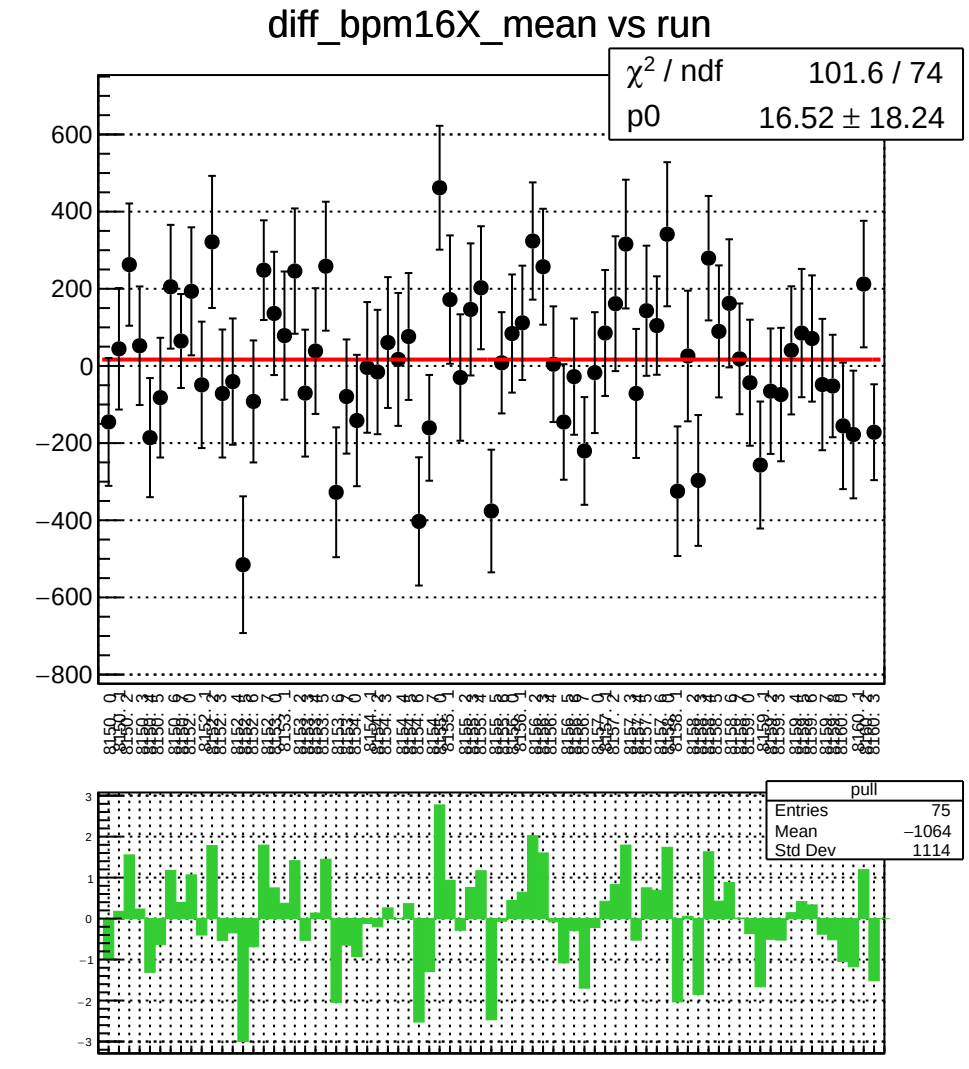

pull1D
Entries 75
Mean −0.00103
Std Dev 1.164

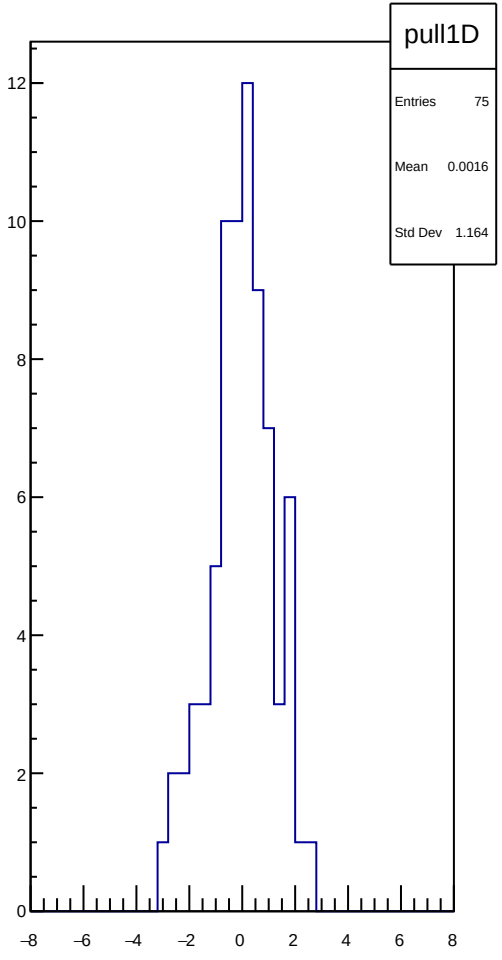

diff_bpm12X_rms vs run
χ² / ndf 1567 / 74
p0 3.719e+04 ± 30.96
41000
40000
39000
38000
37000
36000
35000
34000
33000


diff_bpm12Y_mean vs run
χ² / ndf 87.28 / 74
p0 6.446 ± 2.168
pull
Entries 75
Mean −994.3
Std Dev 1022

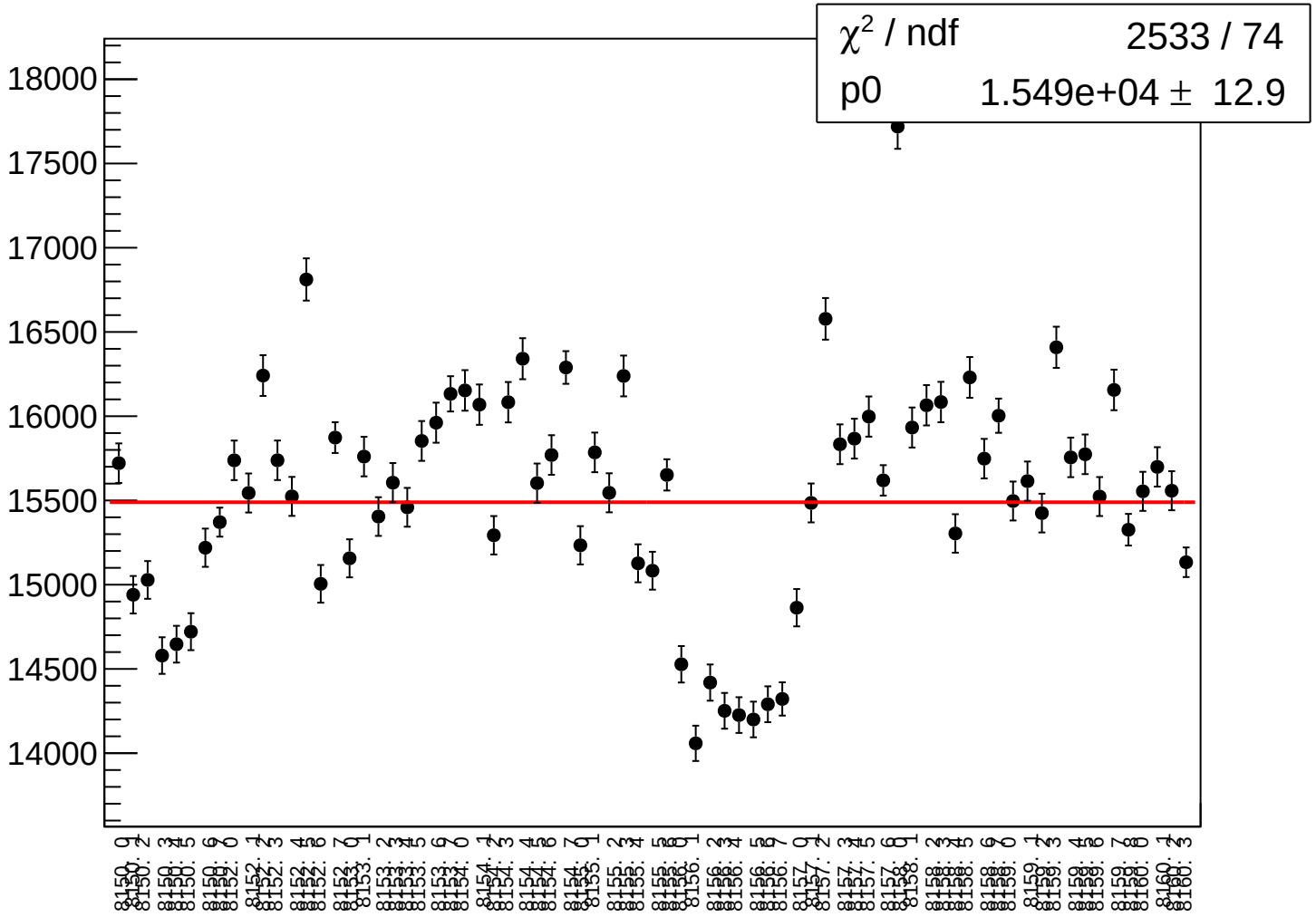

pull1D
Entries 75
Mean 0.001424
Std Dev 1.079

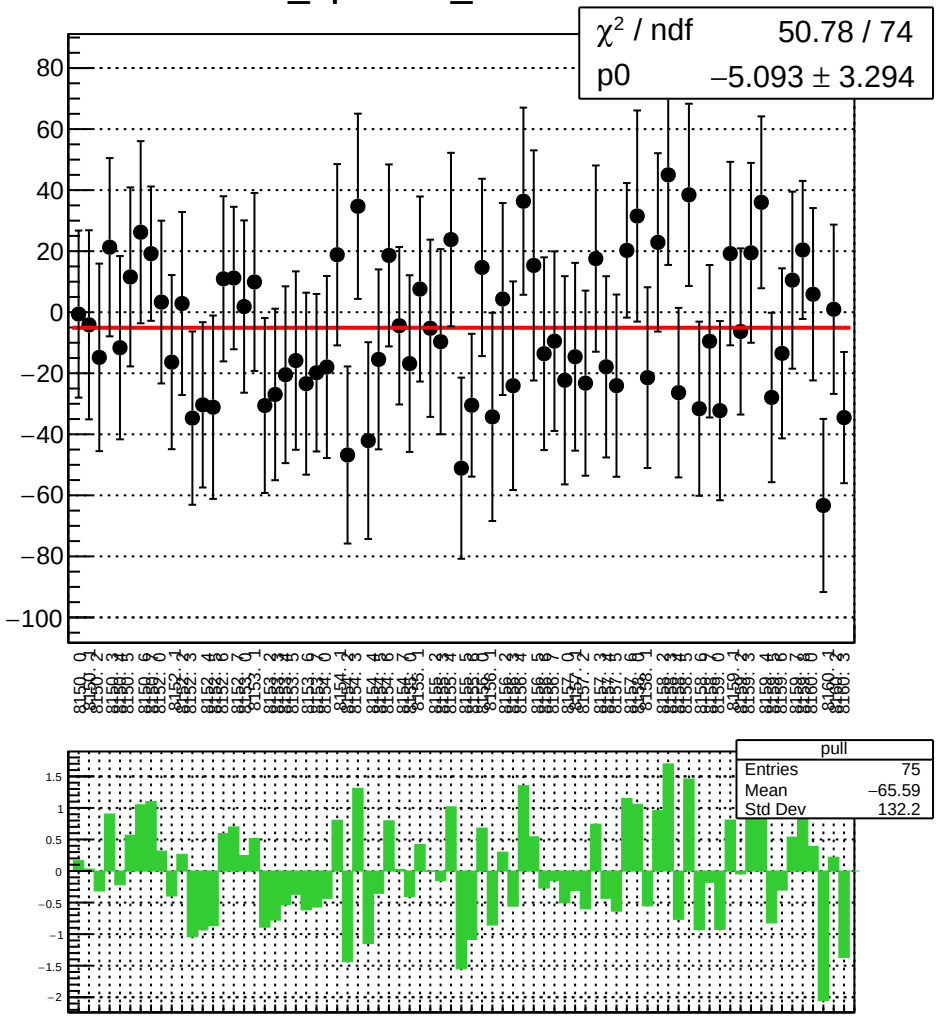

diff_bpm12Y_rms vs run
χ² / ndf 652.4 / 74
p0 1842 ± 1.533
1950
1900
1850
1800
1750

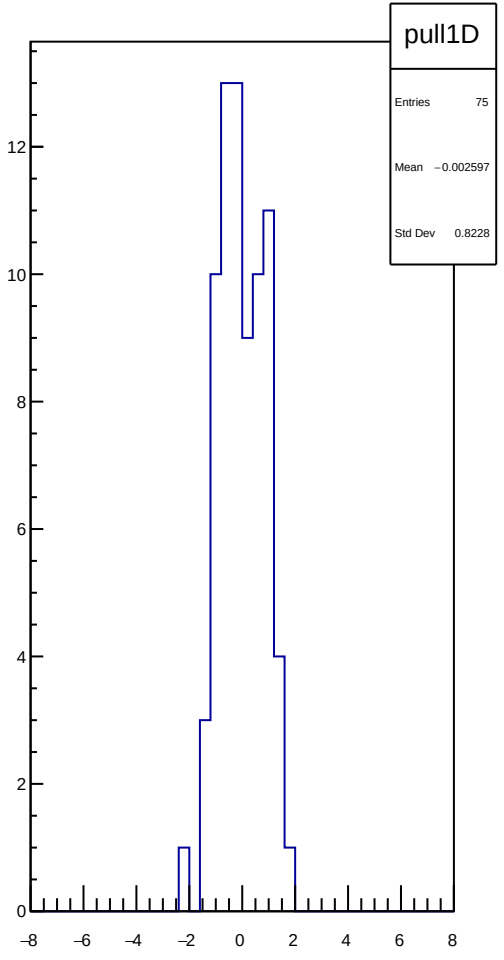

diff_bpm16X_mean vs run
χ^2 / ndf 101.6 / 74
p0 16.52 ± 18.24
pull
Entries 75
Mean −1064
Std Dev 1114

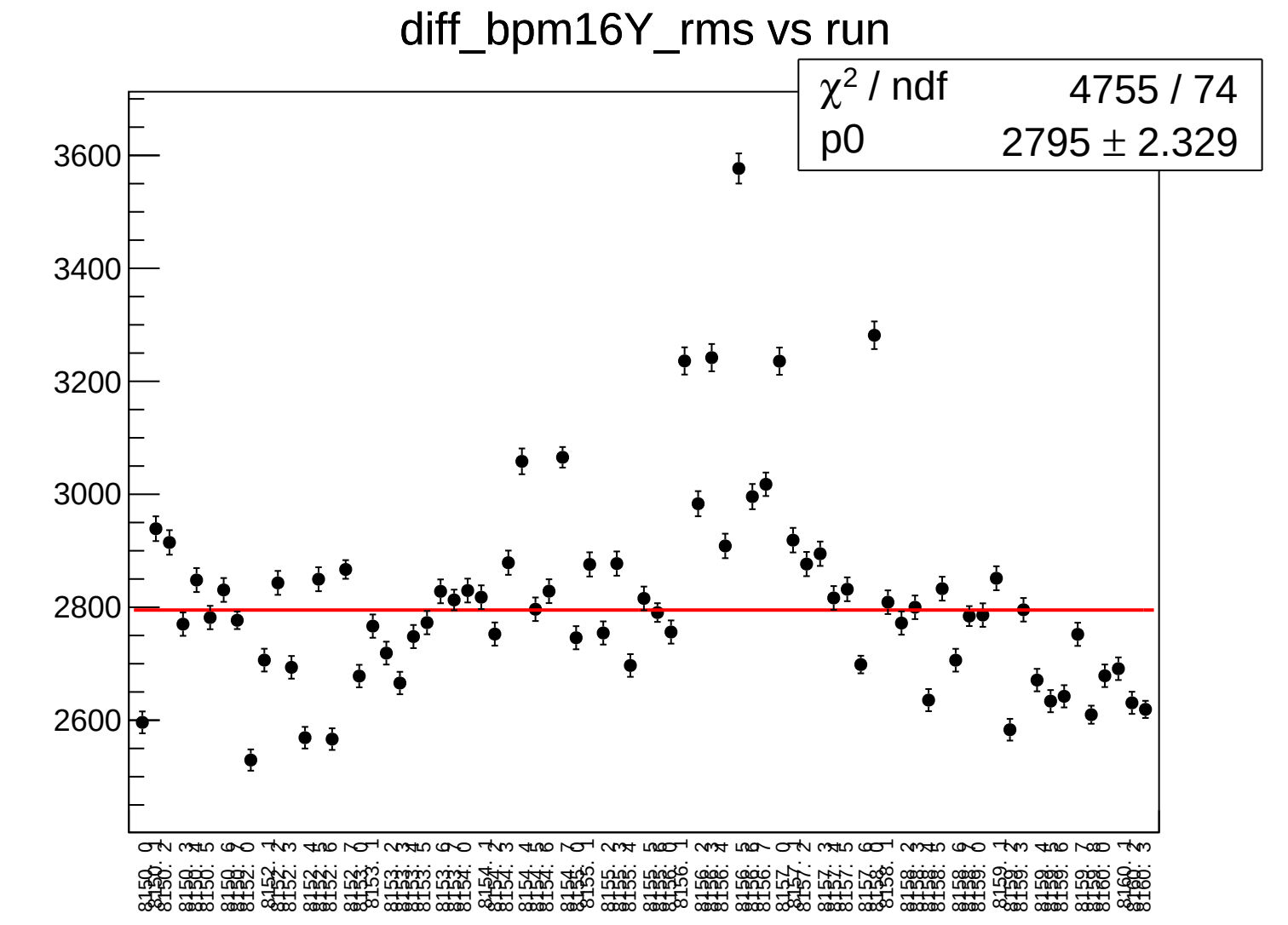

pull1D
Entries 75
Mean 0.0016
Std Dev 1.164

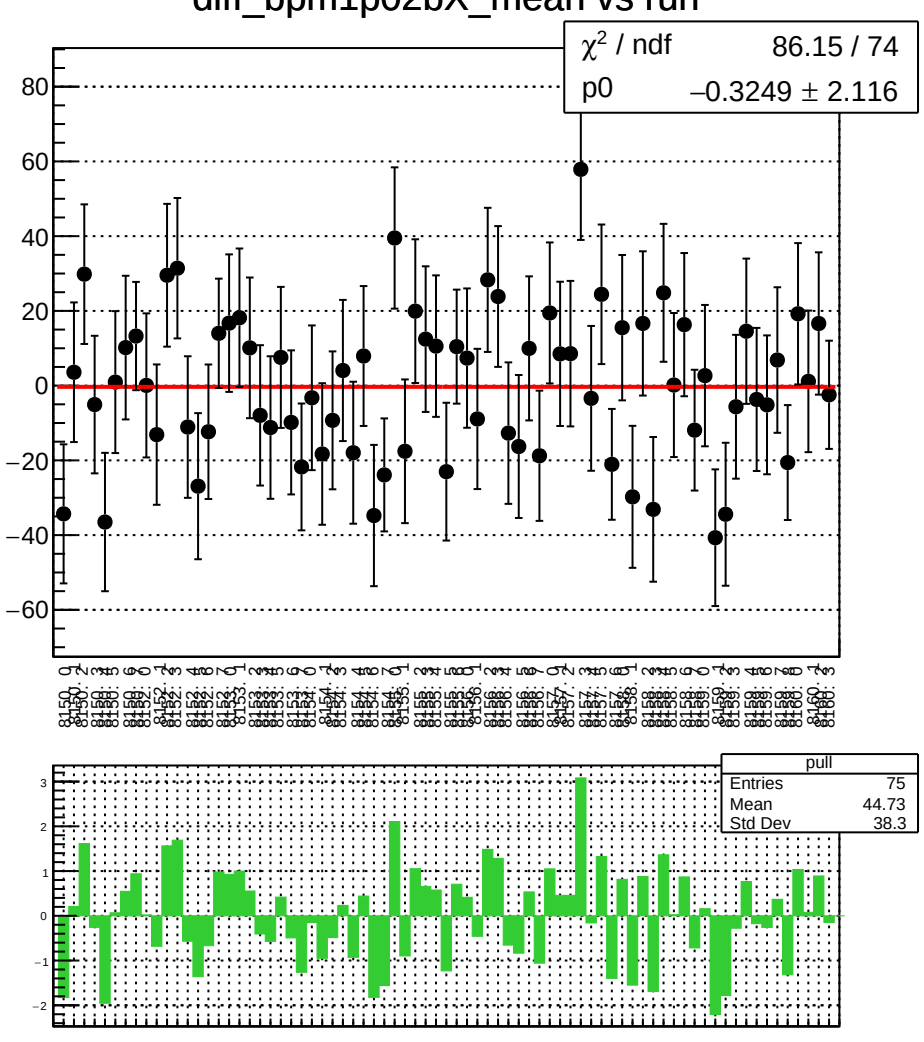
diff_bpm16X_rms vs run

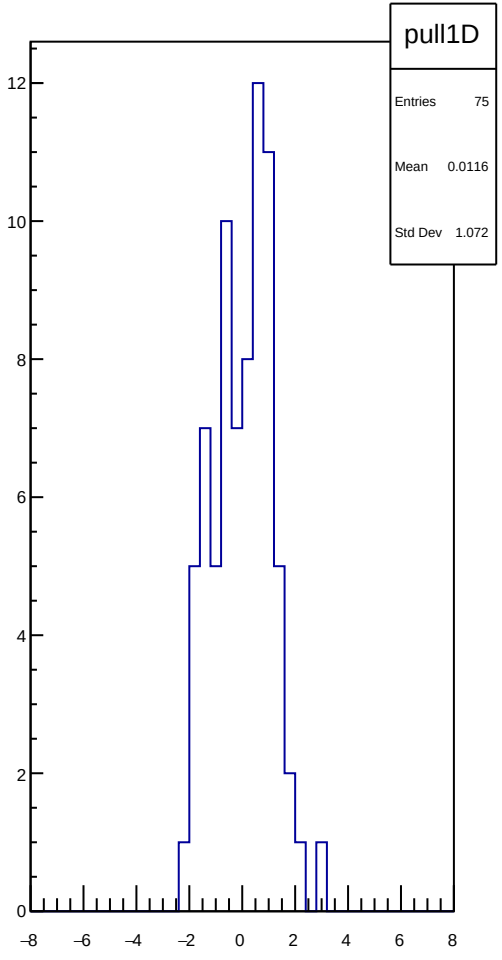


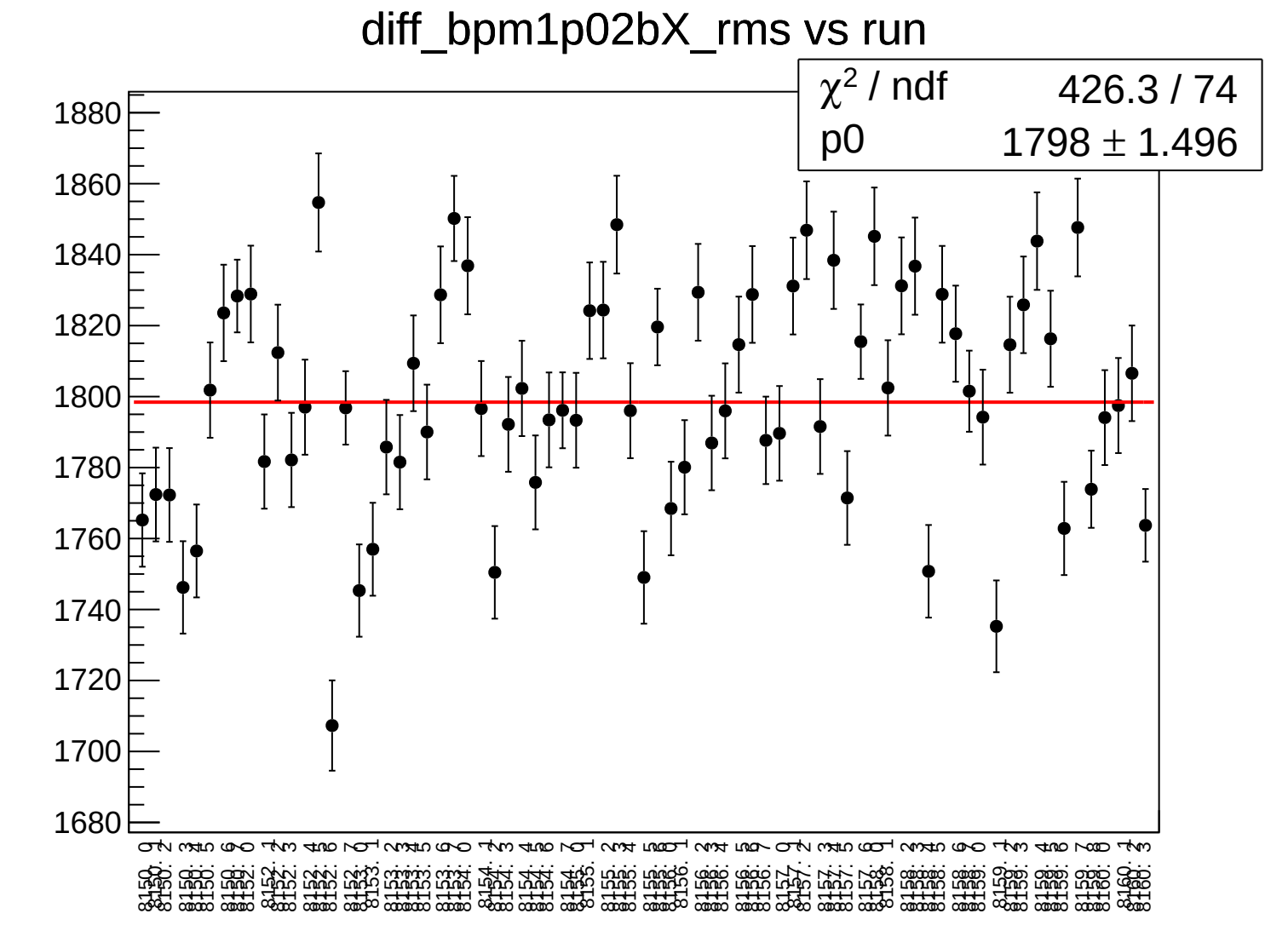

diff_bpm16Y_mean vs run
χ² / ndf 50.78 / 74
p0 −5.093 ± 3.294
pull
Entries 75
Mean −65.59
Std Dev 132.2

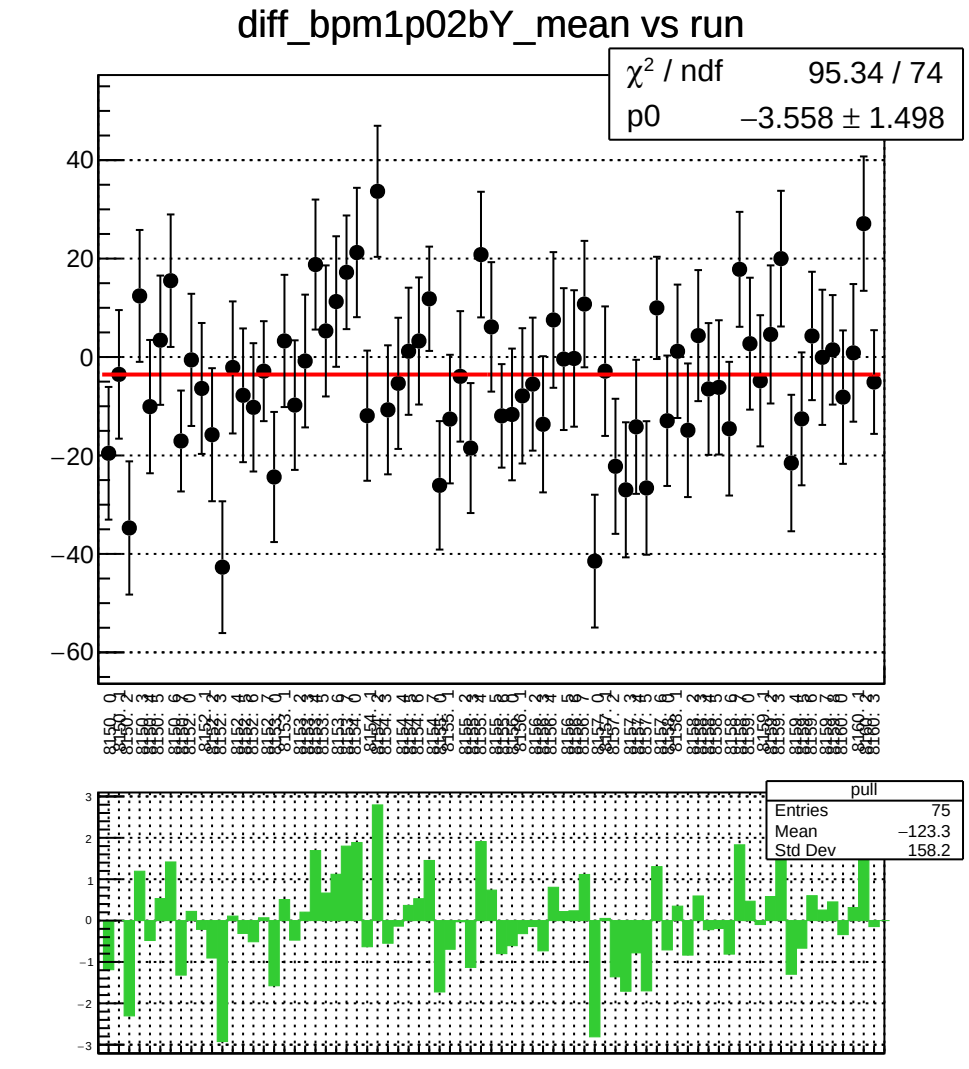

pull1D
Entries 75
Mean −0.002597
Std Dev 0.8228

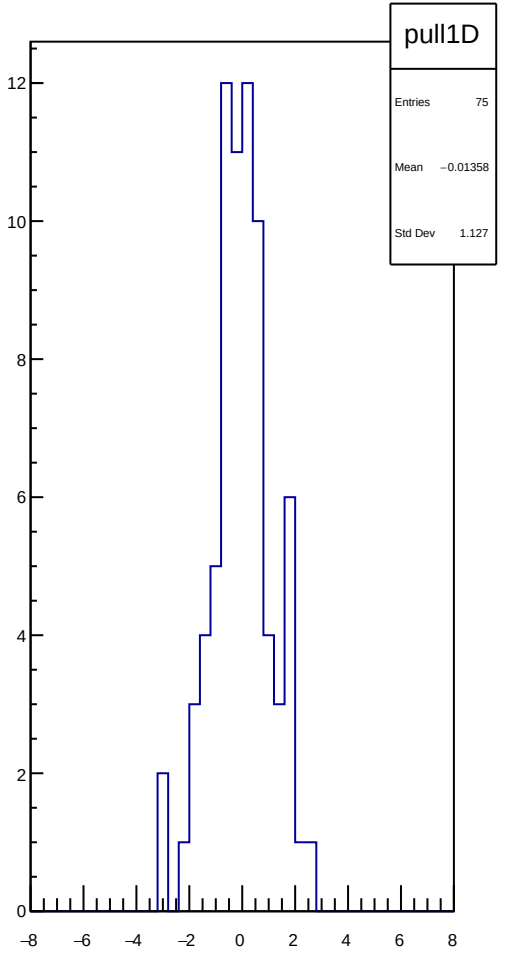

diff_bpm16Y_rms vs run
χ² / ndf 4755 / 74
p0 2795 ± 2.329
3600
3400
3200
3000
2800
2600

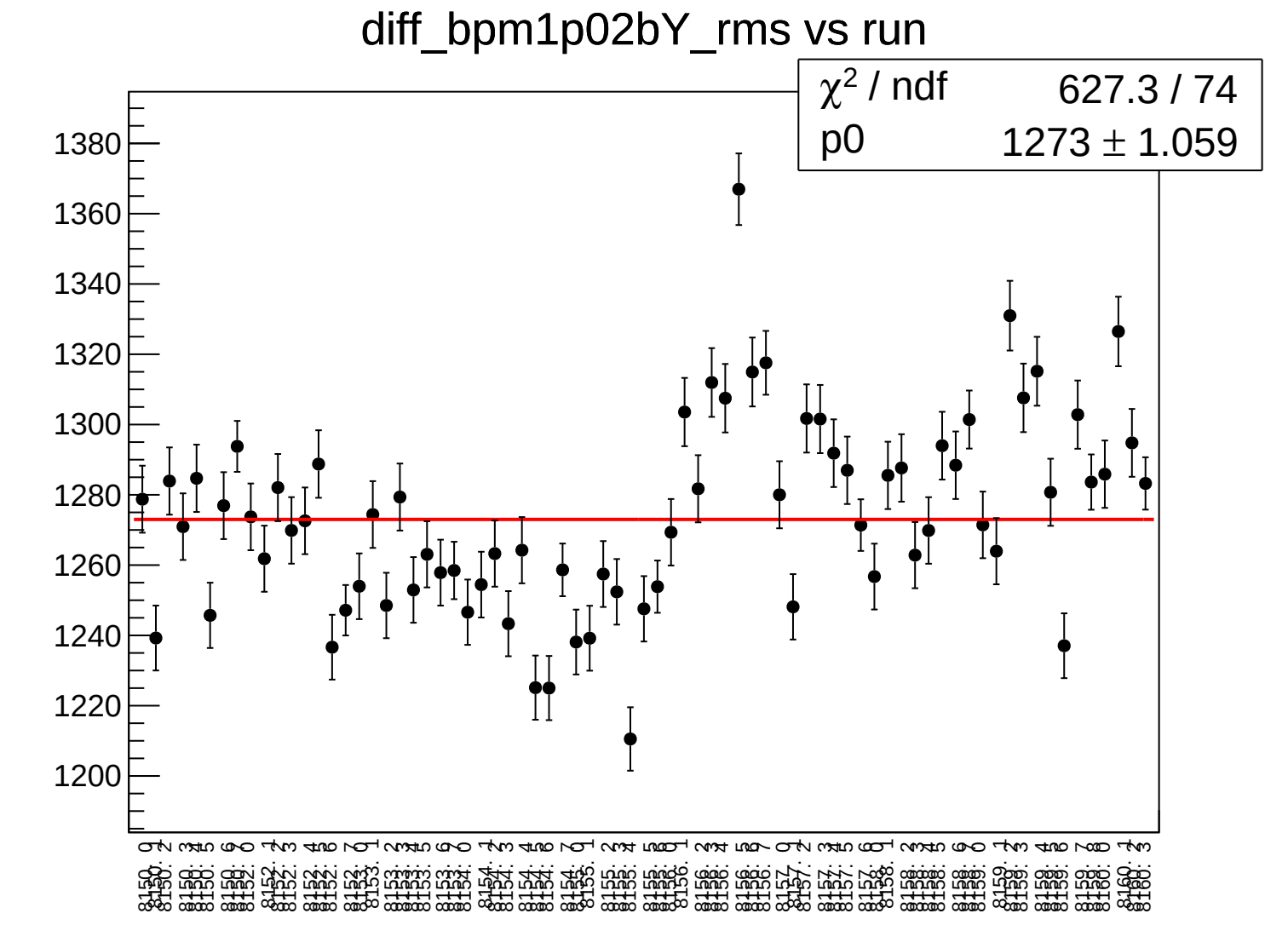

diff_bpm1p02bX_mean vs run
χ² / ndf 86.15 / 74
p0 −0.3249 ± 2.116
pull
Entries 75
Mean 44.73
Std Dev 38.3

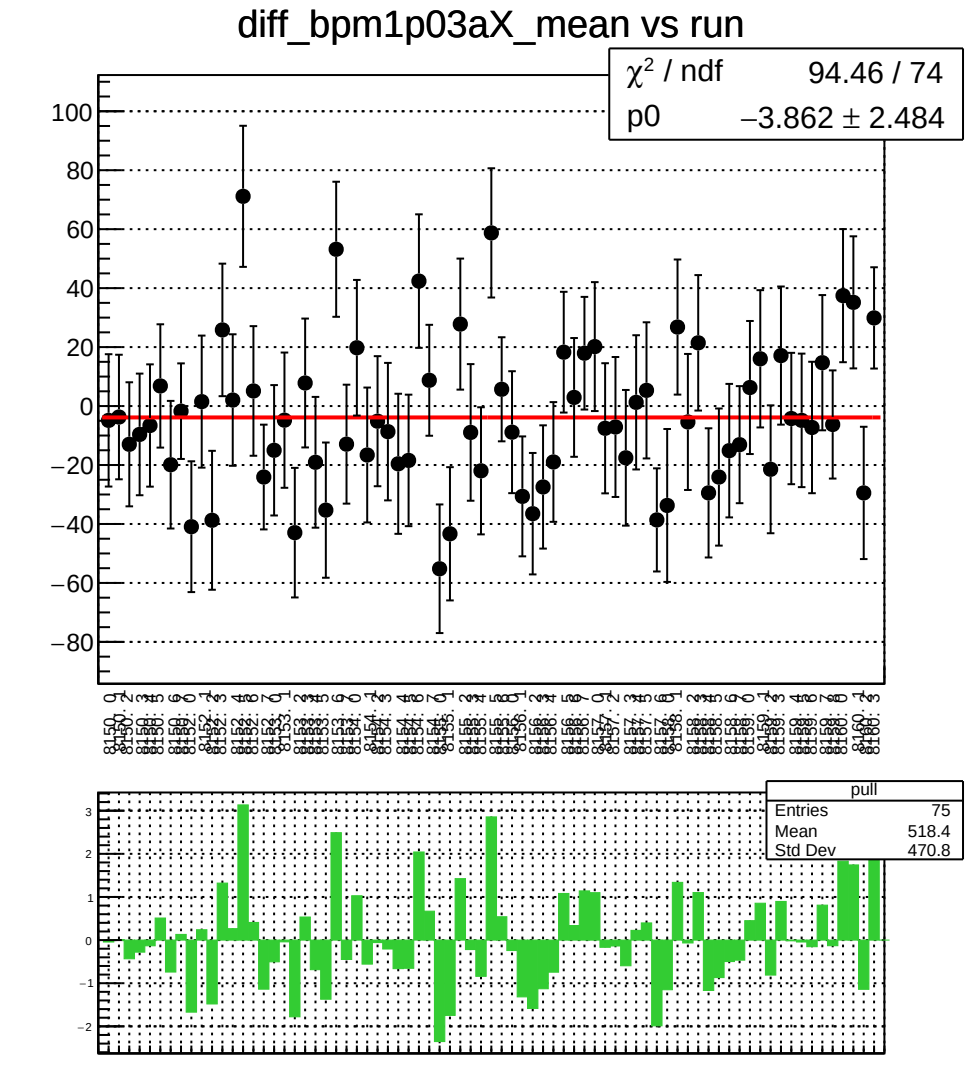

pull1D
Entries 75
Mean 0.0116
Std Dev 1.072

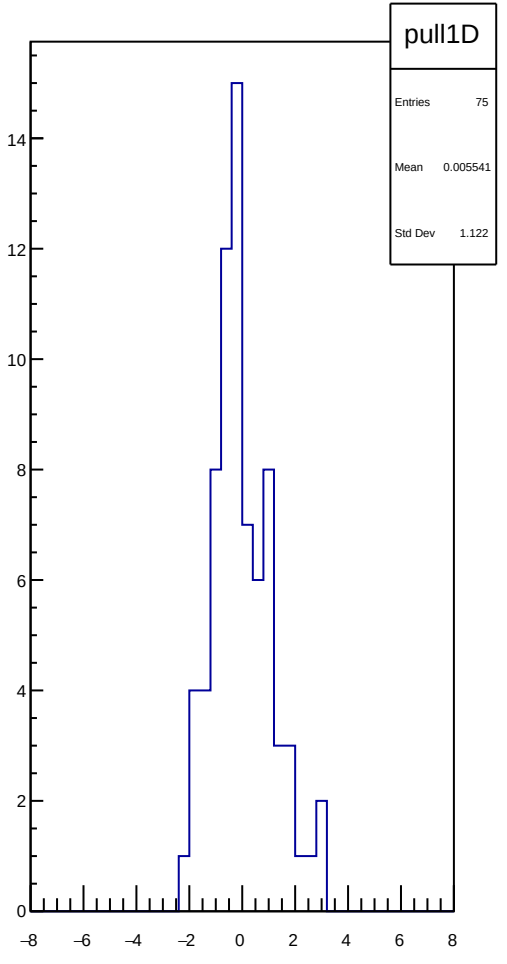

diff_bpm1p02bX_rms vs run
χ² / ndf 426.3 / 74
p0 1798 ± 1.496
1880
1860
1840
1820
1800
1780
1760
1740
1720
1700
1680

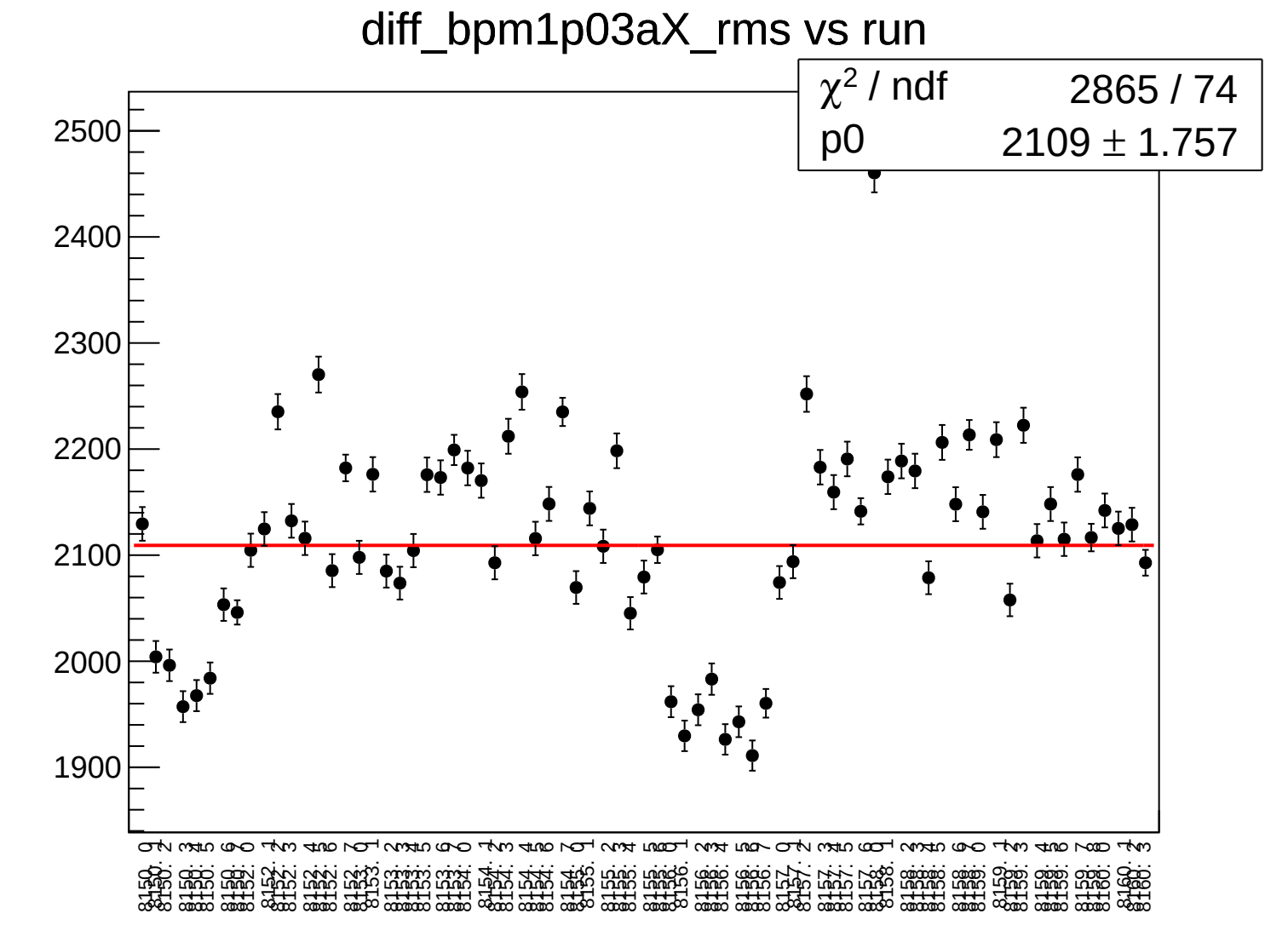

diff_bpm1p02bY_mean vs run
χ² / ndf 95.34 / 74
p0 −3.558 ± 1.498
pull
Entries 75
Mean −123.3
Std Dev 158.2

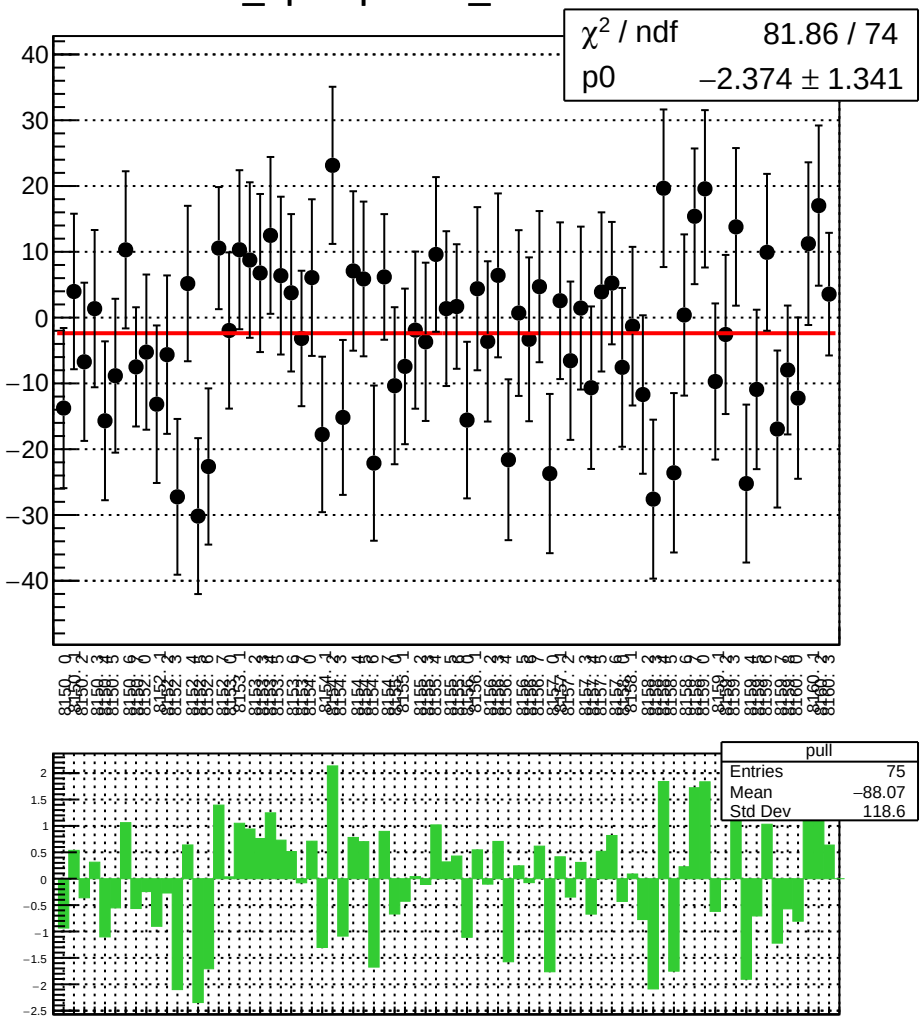

pull1D
Entries 75
Mean −0.01358
Std Dev 1.127

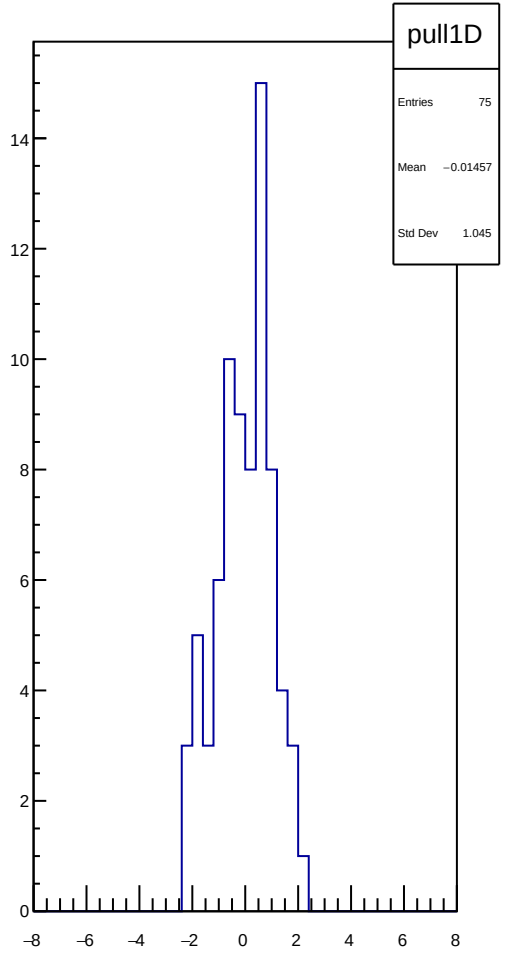

diff_bpm1p02bY_rms vs run
χ^2 / ndf 627.3 / 74
p0 1273 ± 1.059
1380
1360
1340
1320
1300
1280
1260
1240
1220
1200

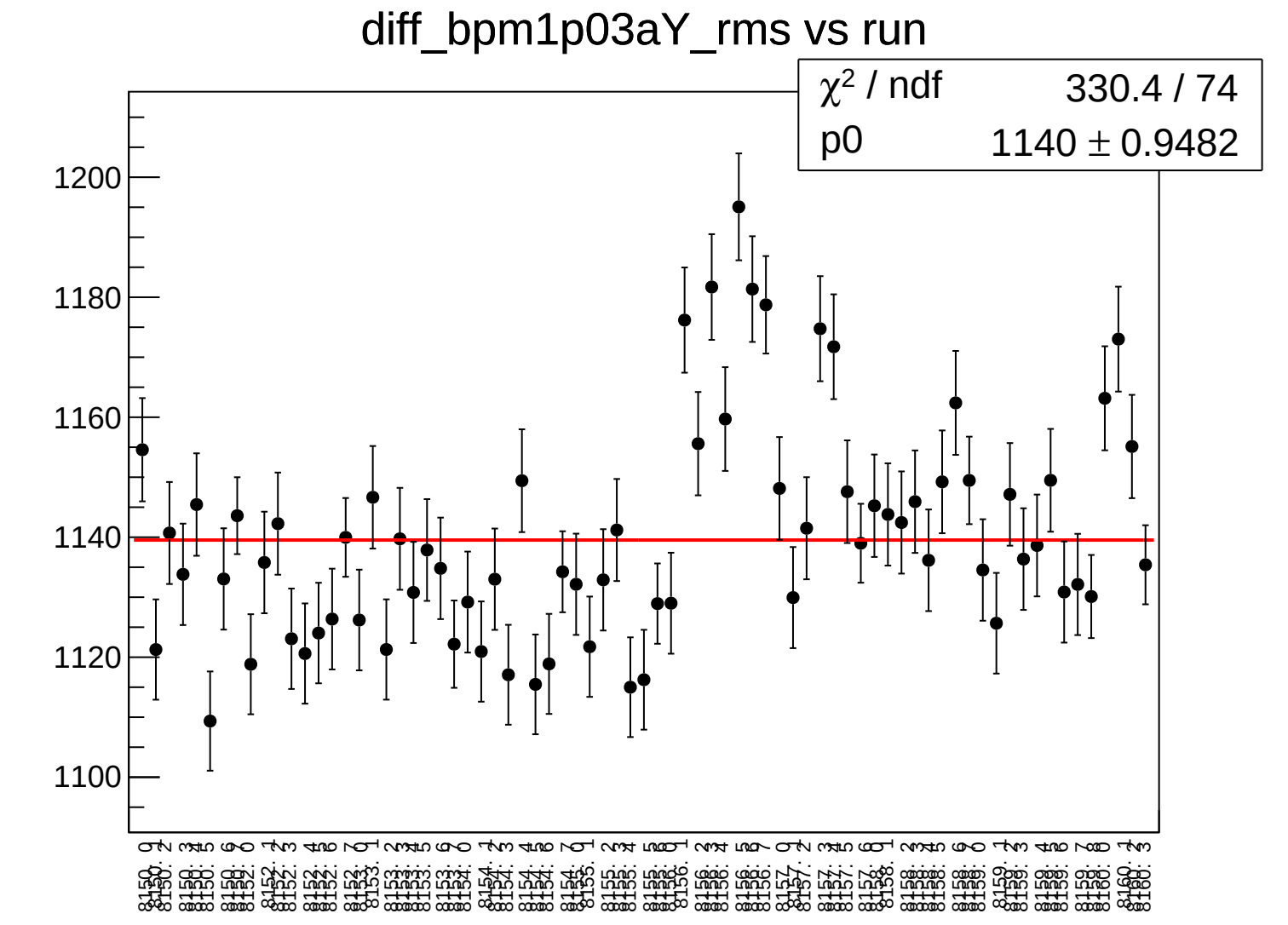

diff_bpm1p03aX_mean vs run
χ² / ndf 94.46 / 74
p0 −3.862 ± 2.484
pull
Entries 75
Mean 518.4
Std Dev 470.8

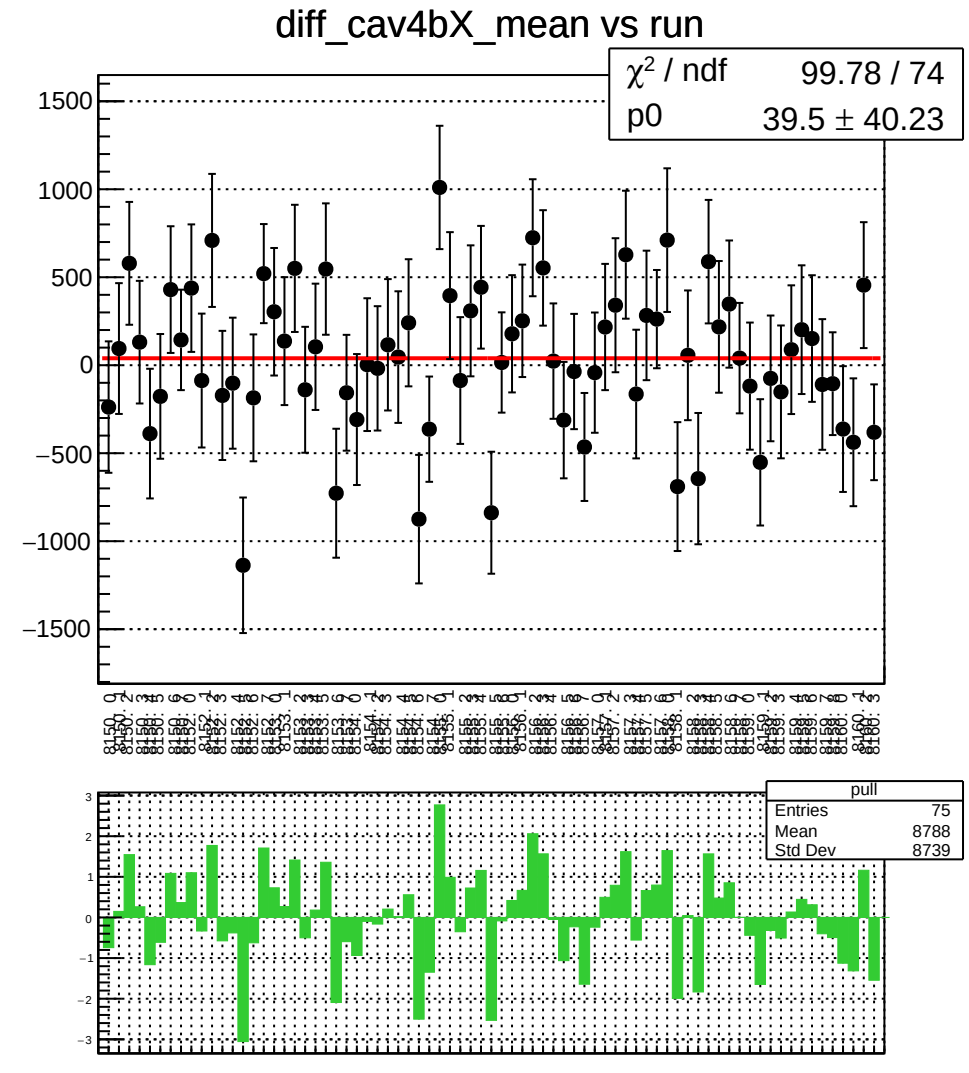

pull1D
Entries 75
Mean 0.005541
Std Dev 1.122

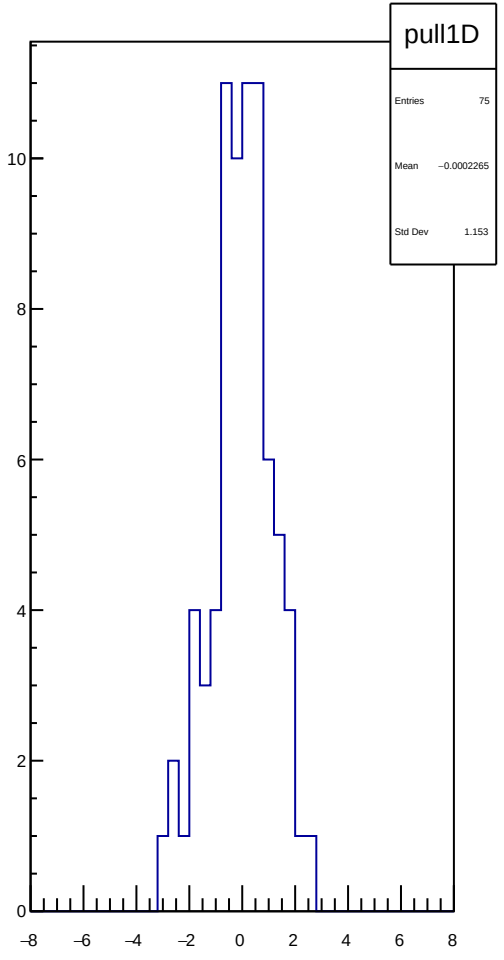

diff_bpm1p03aX_rms vs run
χ² / ndf 2865 / 74
p0 2109 ± 1.757
2500
2400
2300
2200
2100
2000
1900

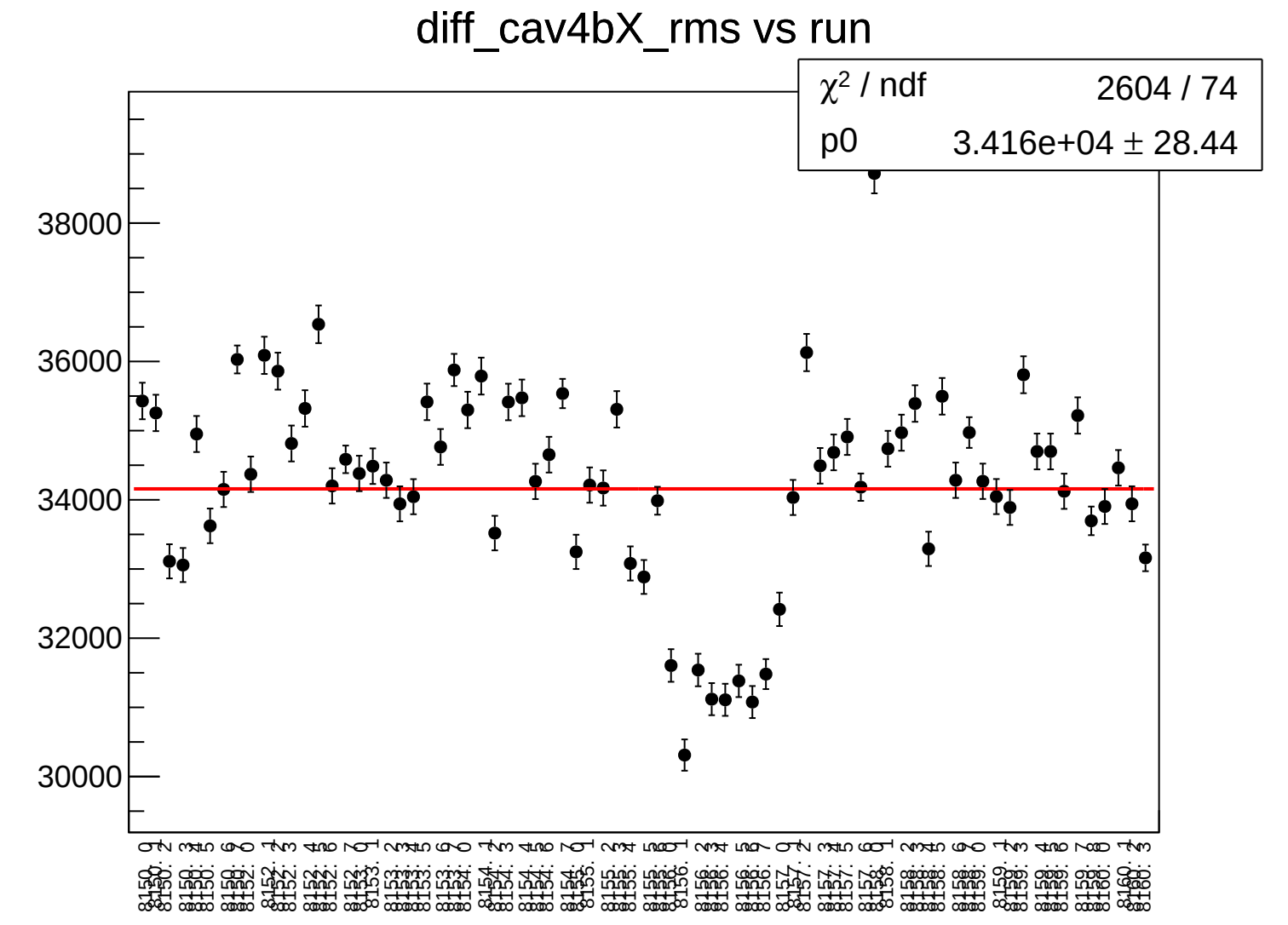

diff_bpm1p03aY_mean vs run
χ² / ndf 81.86 / 74
p0 −2.374 ± 1.341
pull
Entries 75
Mean −88.07
Std Dev 118.6

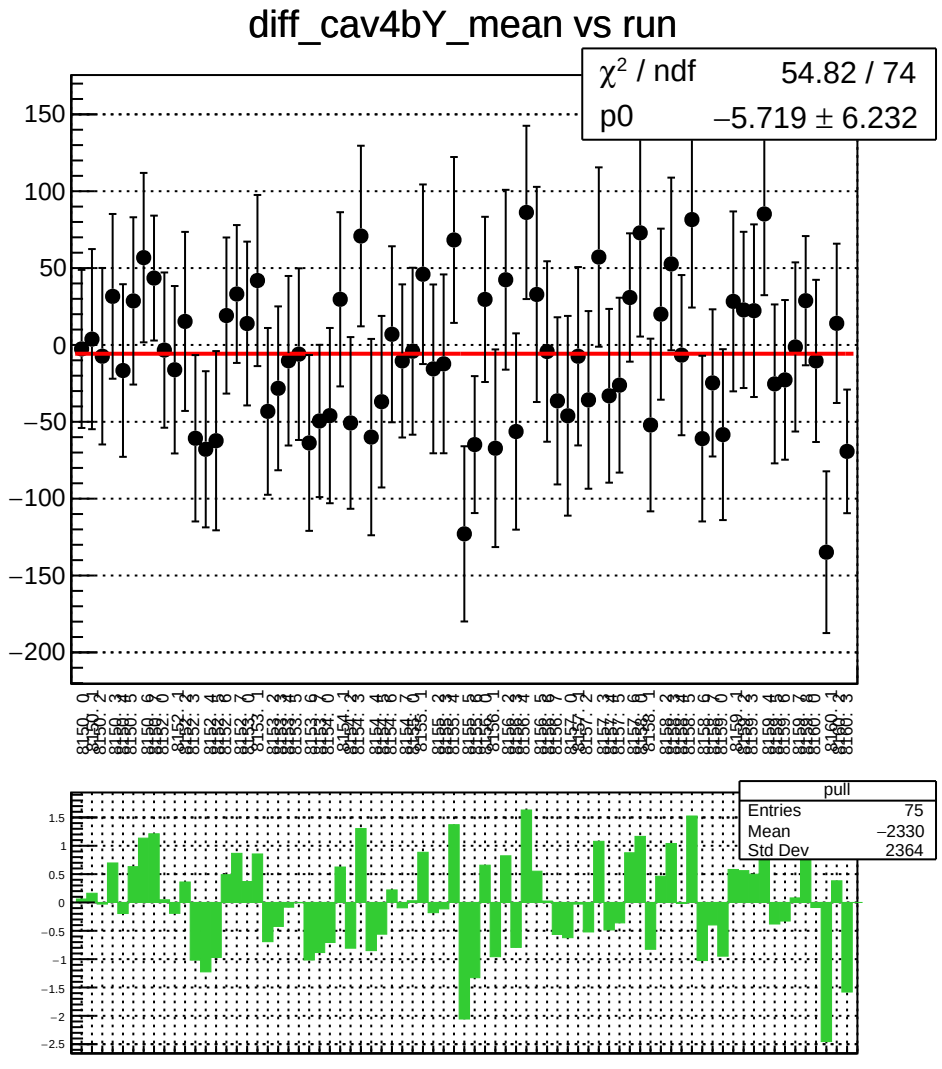

pull1D
Entries 75
Mean −0.01457
Std Dev 1.045

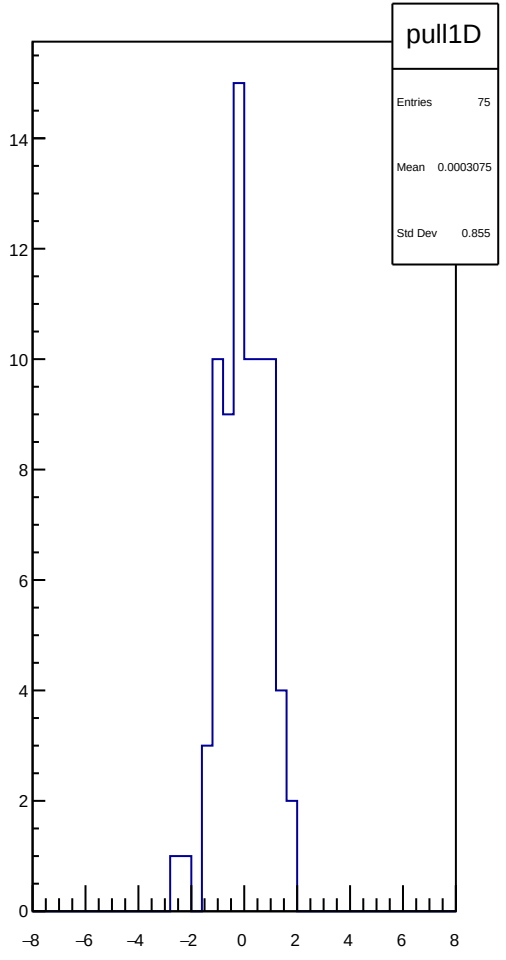

diff_bpm1p03aY_rms vs run
χ² / ndf 330.4 / 74
p0 1140 ± 0.9482
1200
1180
1160
1140
1120
1100

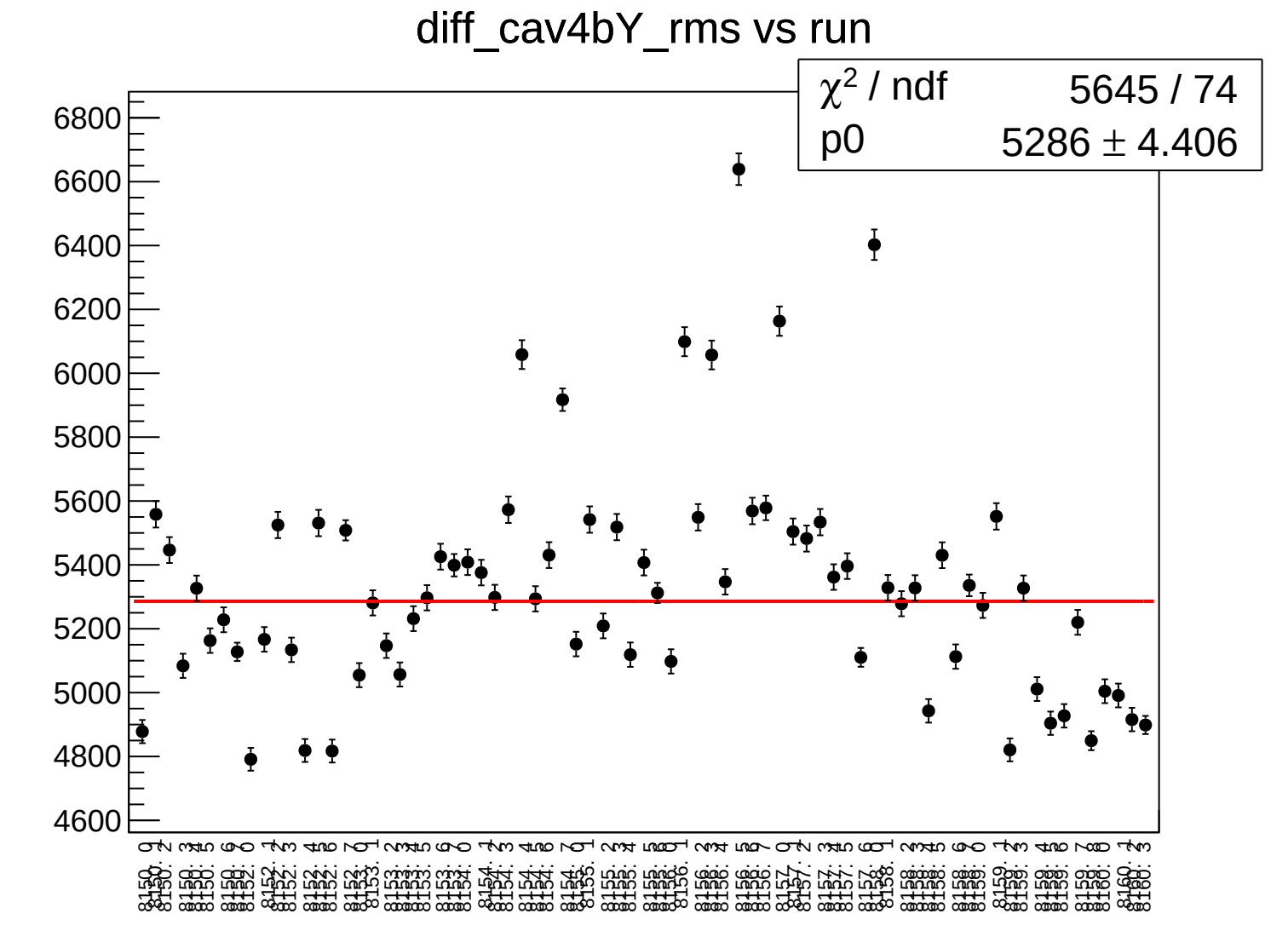

diff_cav4bX_mean vs run
χ² / ndf 99.78 / 74
p0 39.5 ± 40.23
pull
Entries 75
Mean 8788
Std Dev 8739

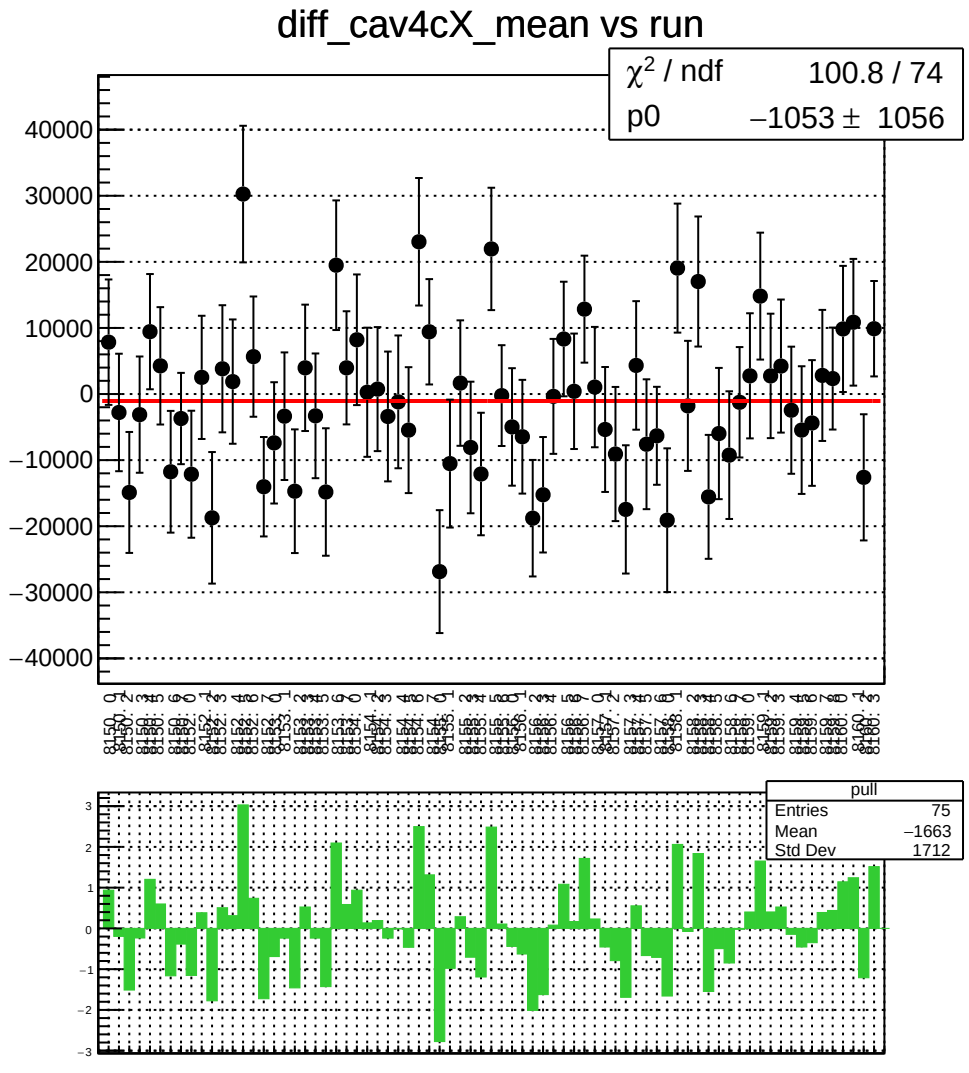

pull1D
Entries 75
Mean −0.0002265
Std Dev 1.153

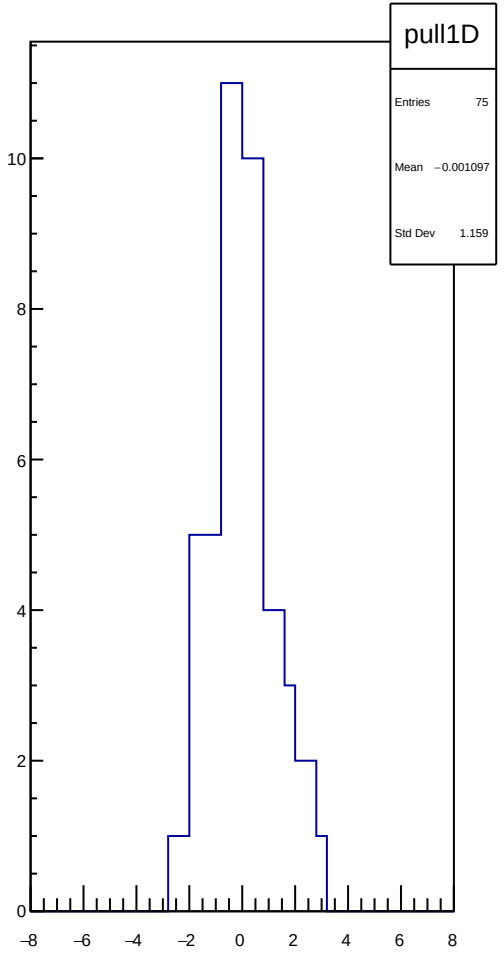

diff_cav4bX_rms vs run
χ² / ndf 2604 / 74
p0 3.416e+04 ± 28.44
38000
36000
34000
32000
30000

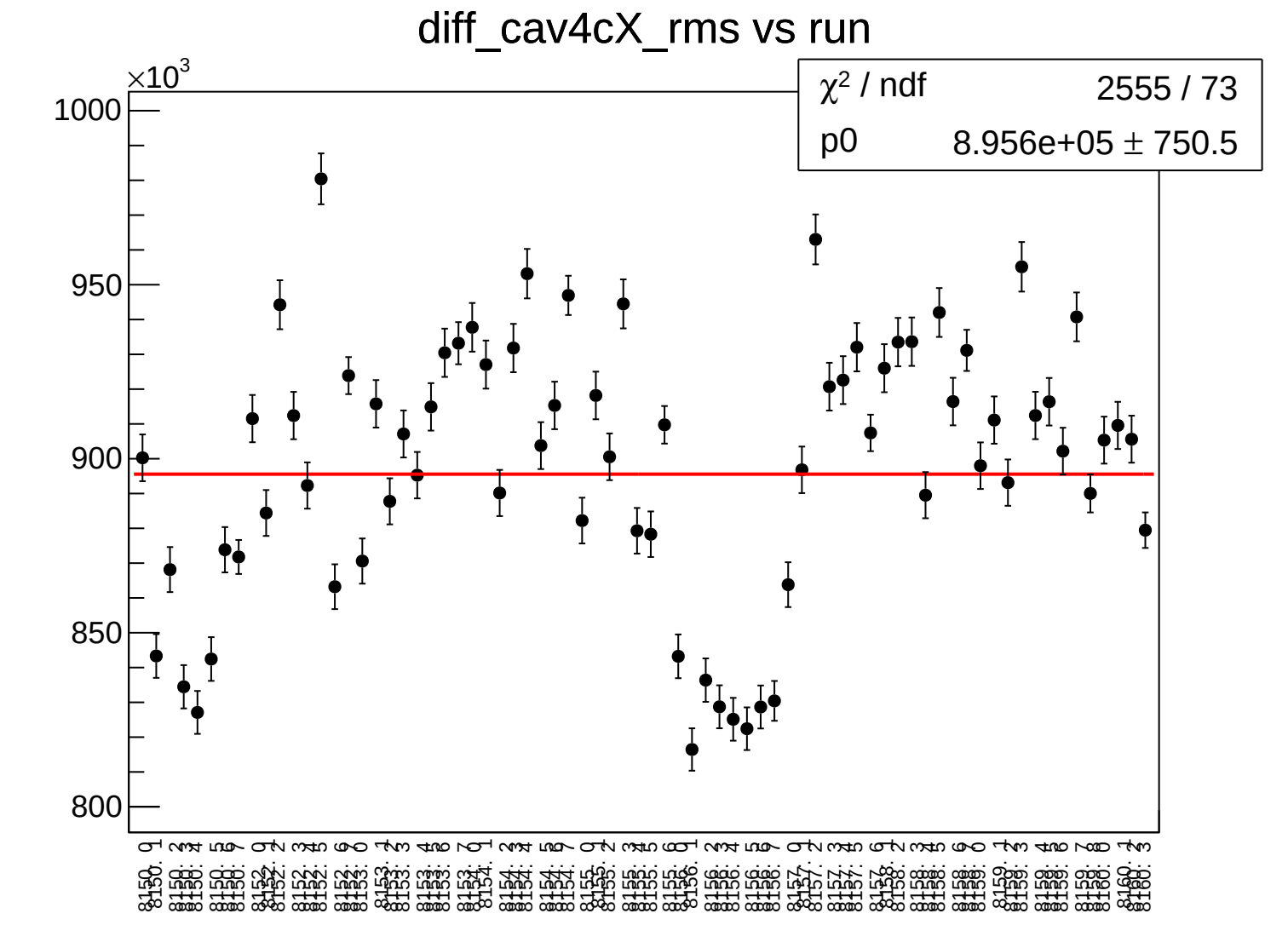

diff_cav4bY_mean vs run
χ² / ndf 54.82 / 74
p0 −5.719 ± 6.232
pull
Entries 75
Mean −2330
Std Dev 2364

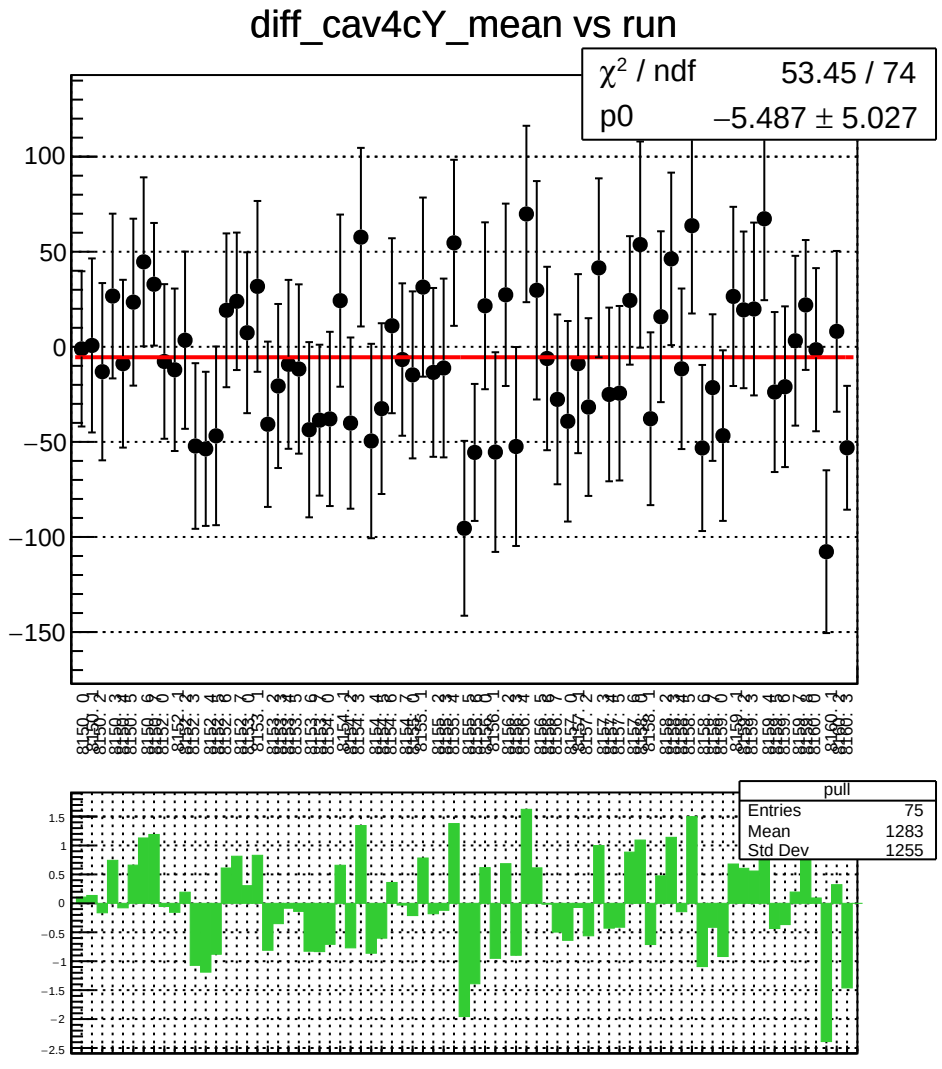

pull1D
Entries 75
Mean 0.0003075
Std Dev 0.855

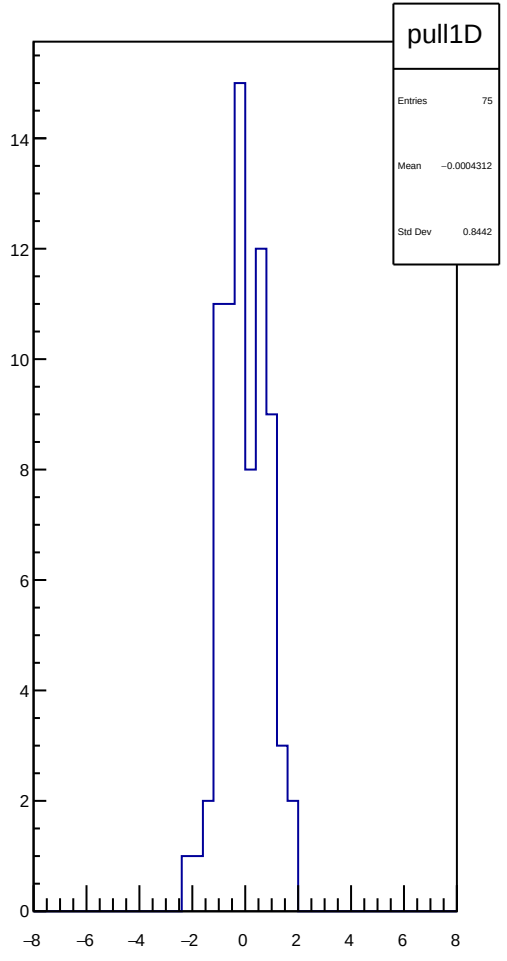

diff_cav4bY_rms vs run
χ² / ndf 5645 / 74
p0 5286 ± 4.406
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

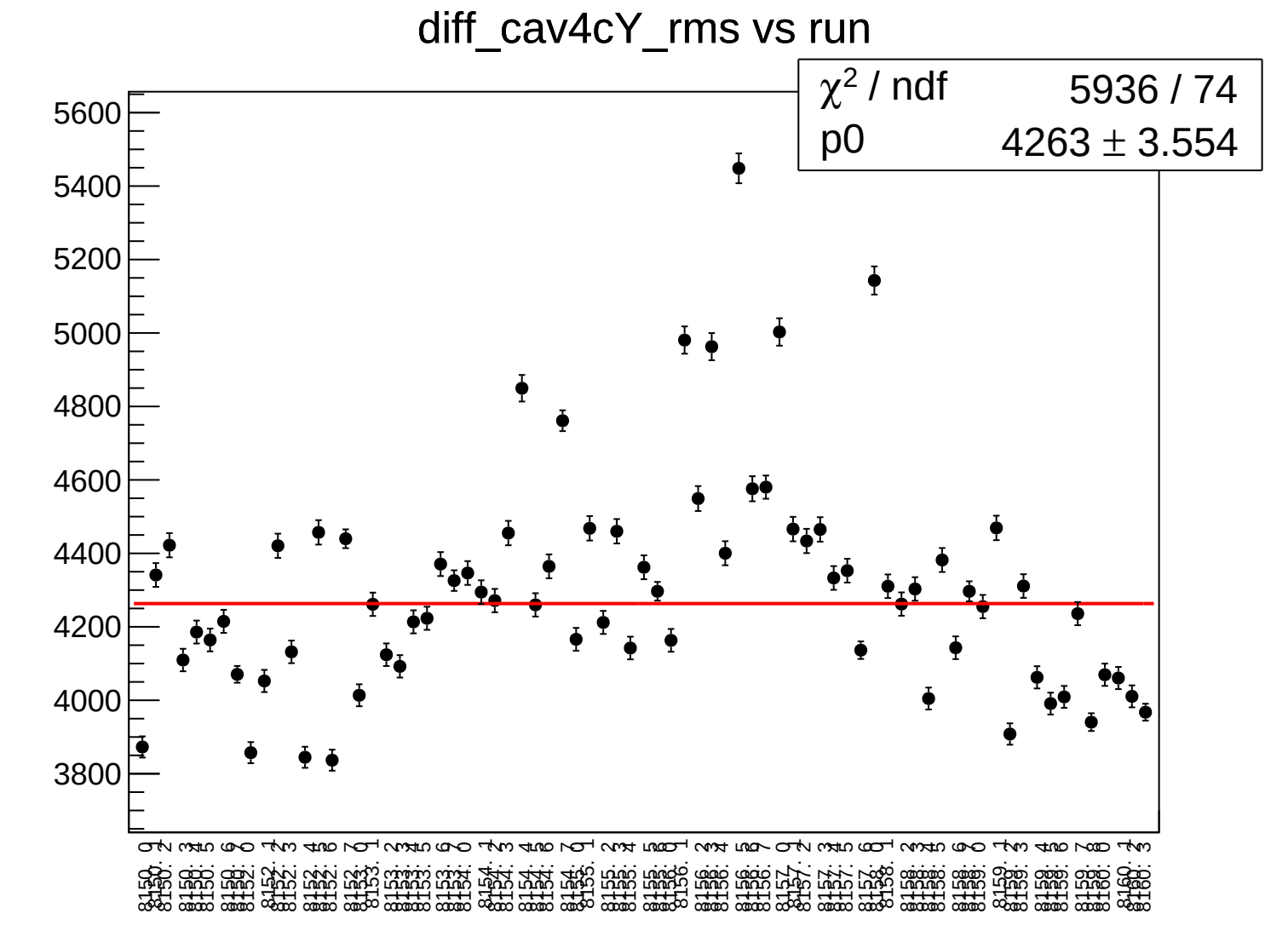

diff_cav4cX_mean vs run
χ² / ndf 100.8 / 74
p0 −1053 ± 1056
pull
Entries 75
Mean −1663
Std Dev 1712

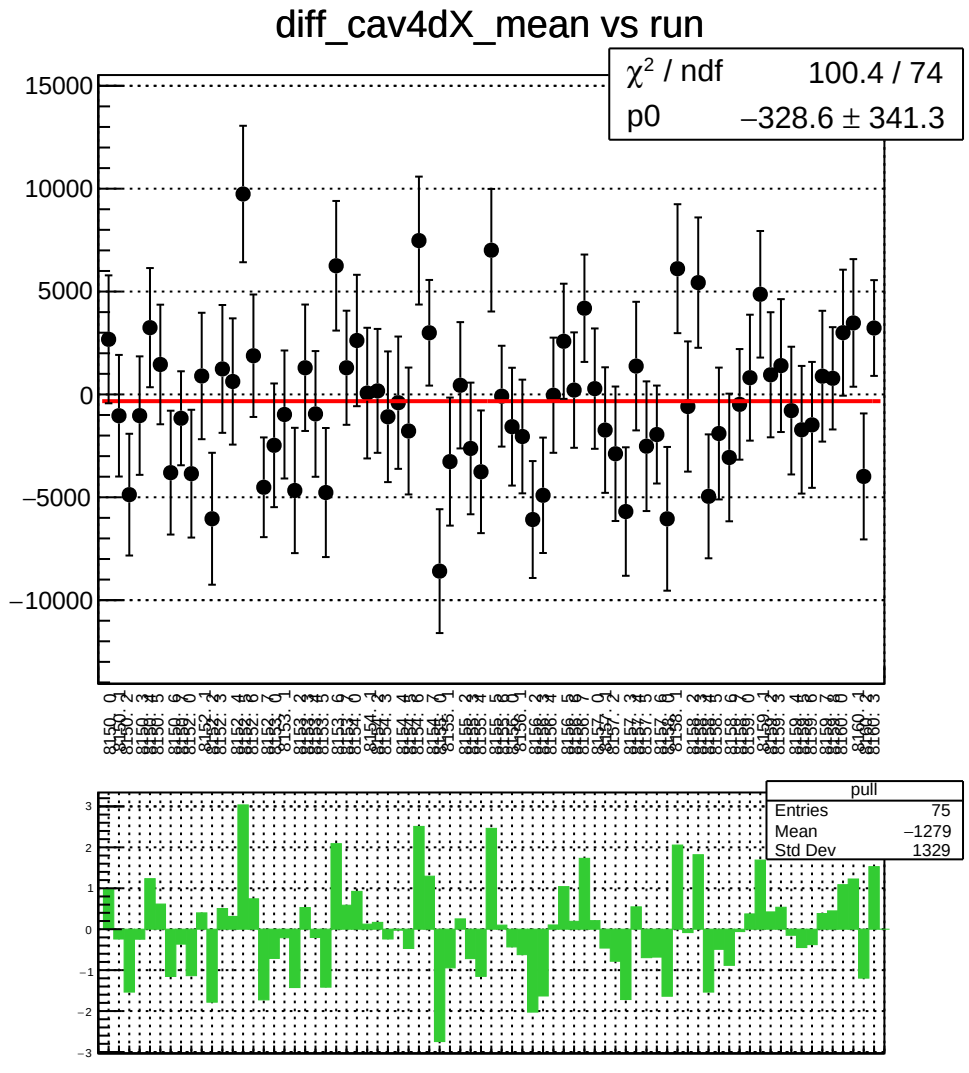

pull1D
Entries 75
Mean −0.001097
Std Dev 1.159

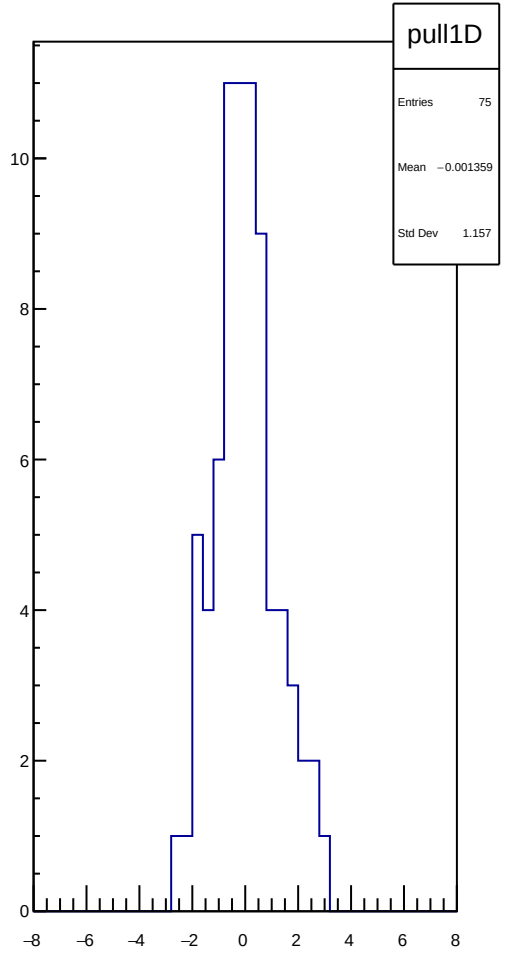

diff_cav4cX_rms vs run
×10^3
1000
950
900
850
800
χ² / ndf 2555 / 73
p0 8.956e+05 ± 750.5

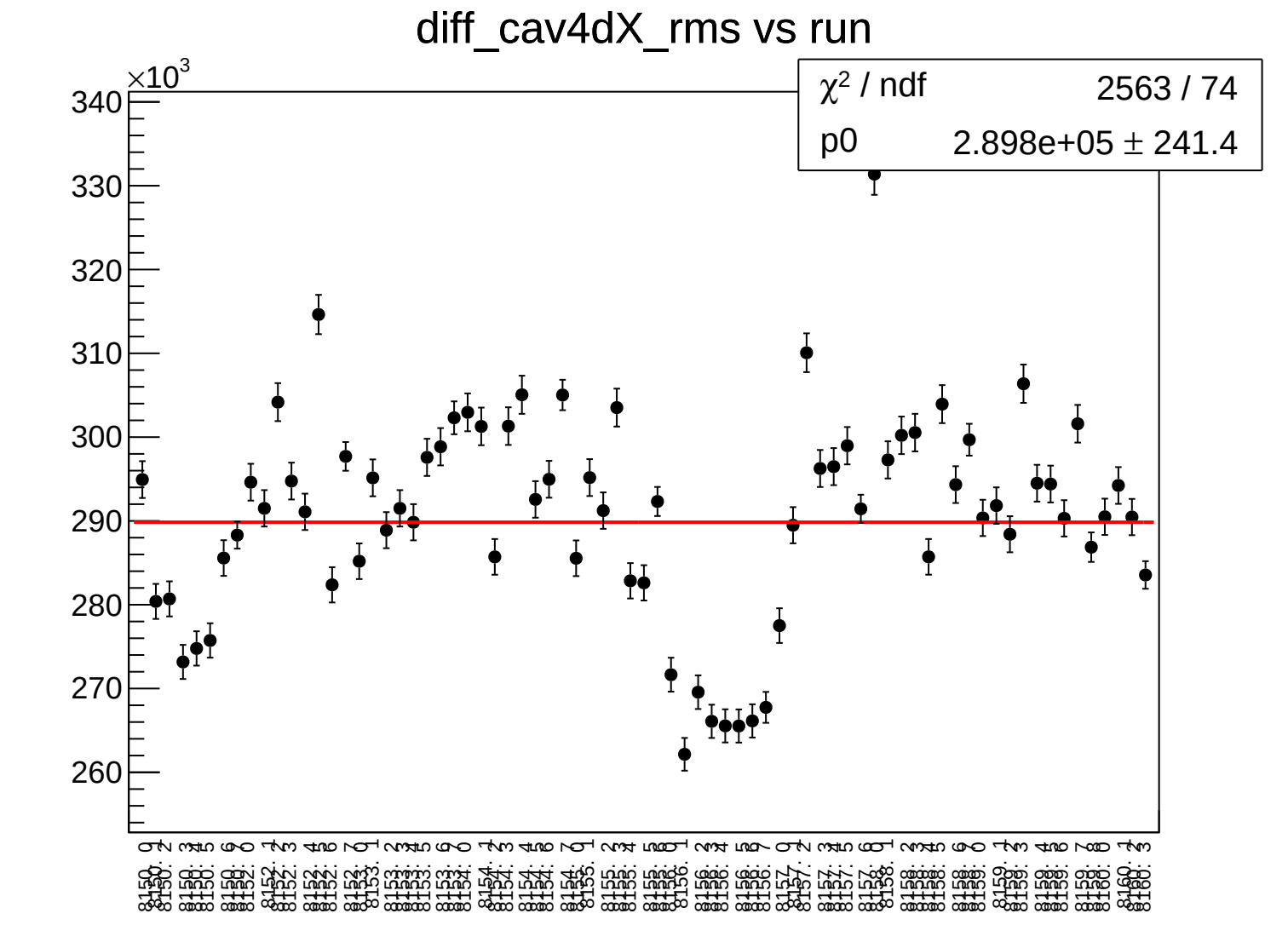

diff_cav4cY_mean vs run
χ² / ndf 53.45 / 74
p0 −5.487 ± 5.027
pull
Entries 75
Mean 1283
Std Dev 1255

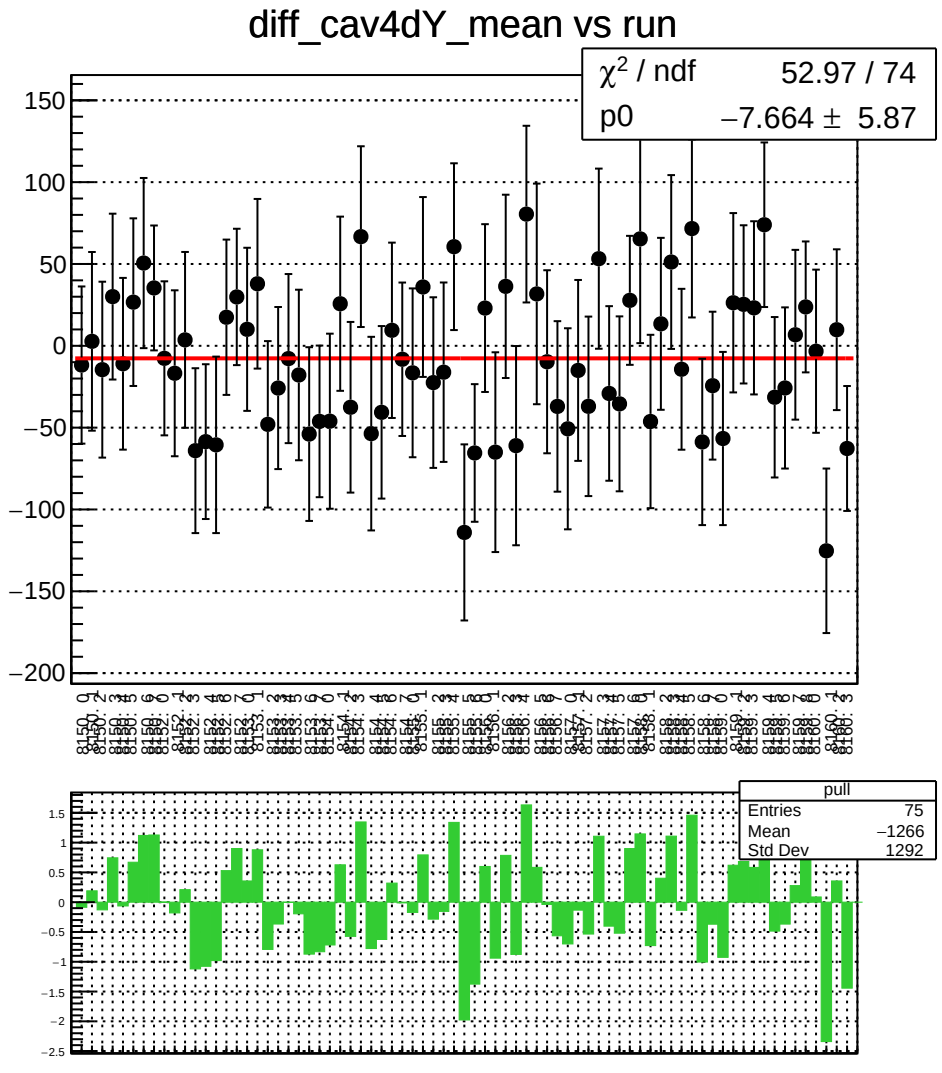

pull1D
Entries 75
Mean −0.0004312
Std Dev 0.8442

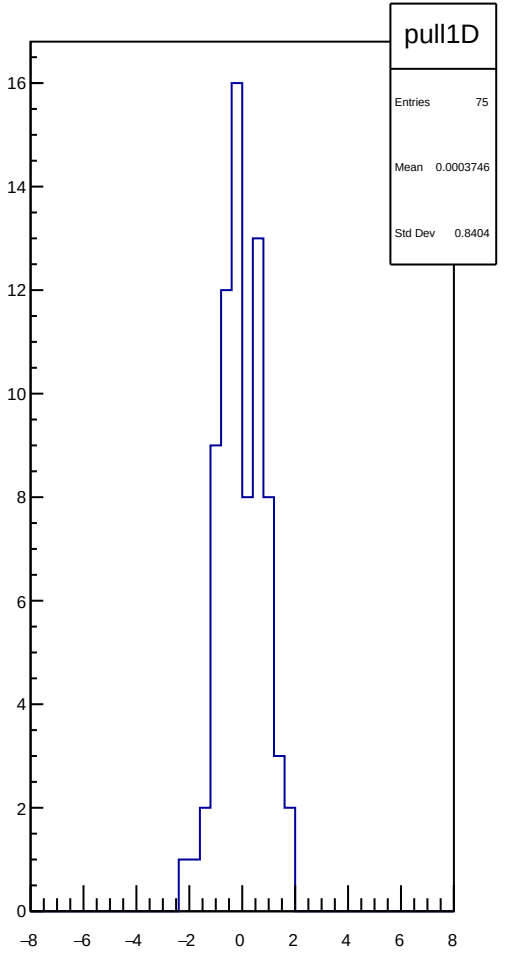

diff_cav4cY_rms vs run
χ^2 / ndf 5936 / 74
p0 4263 ± 3.554
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

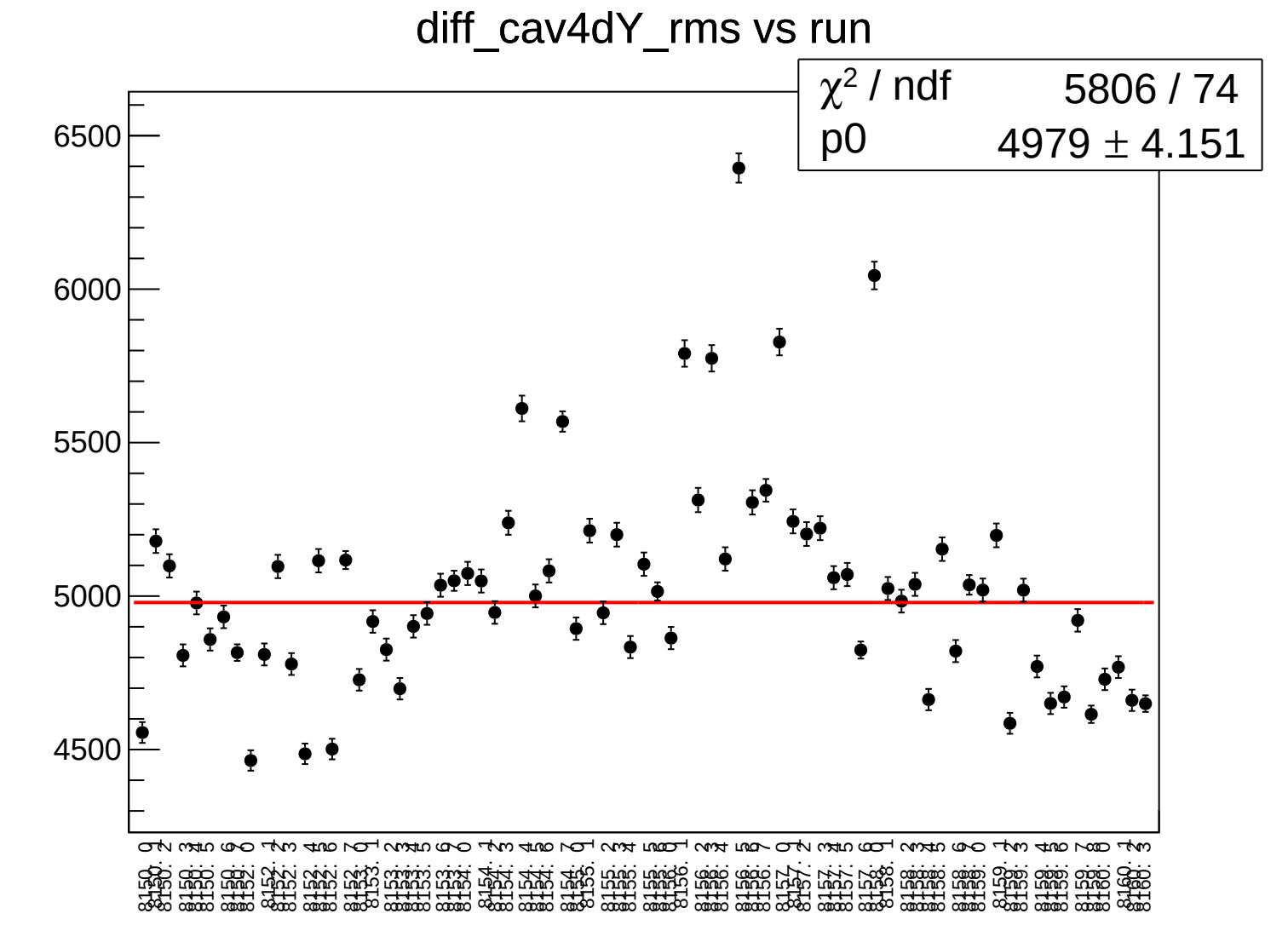

diff_cav4dX_mean vs run
χ² / ndf 100.4 / 74
p0 −328.6 ± 341.3
15000
10000
5000
0
−5000
−10000
pull
Entries 75
Mean −1279
Std Dev 1329
3
2
1
0
−1
−2
−3

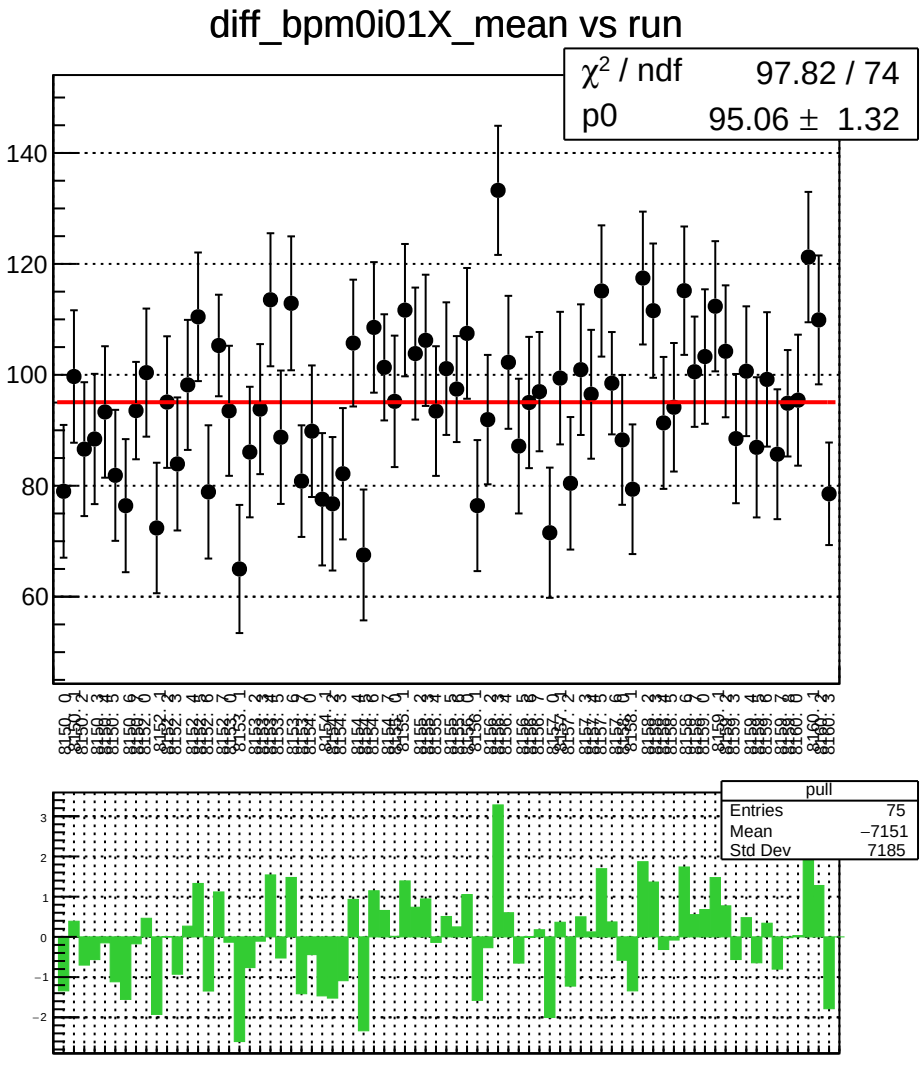

pull1D
Entries 75
Mean −0.001359
Std Dev 1.157
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

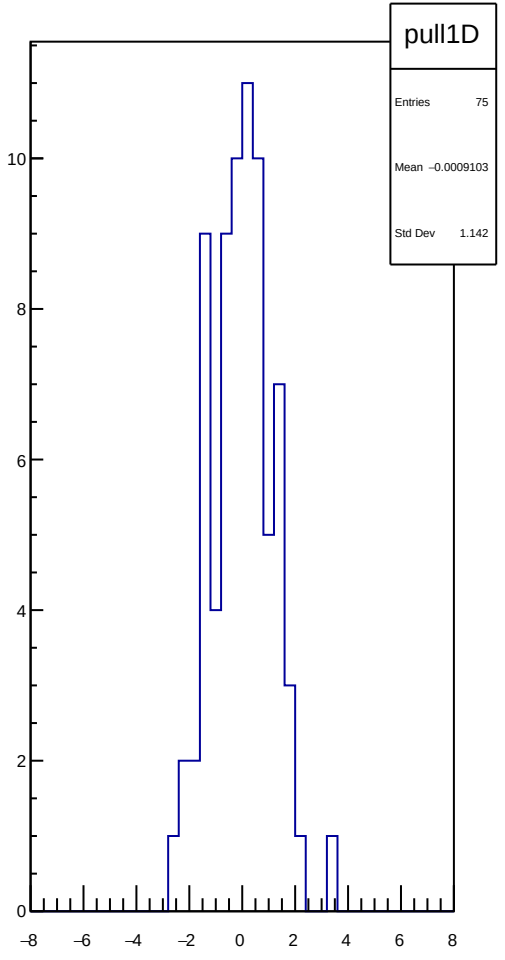

diff_cav4dX_rms vs run
×10^3
340
330
320
310
300
290
280
270
260
χ² / ndf 2563 / 74
p0 2.898e+05 ± 241.4

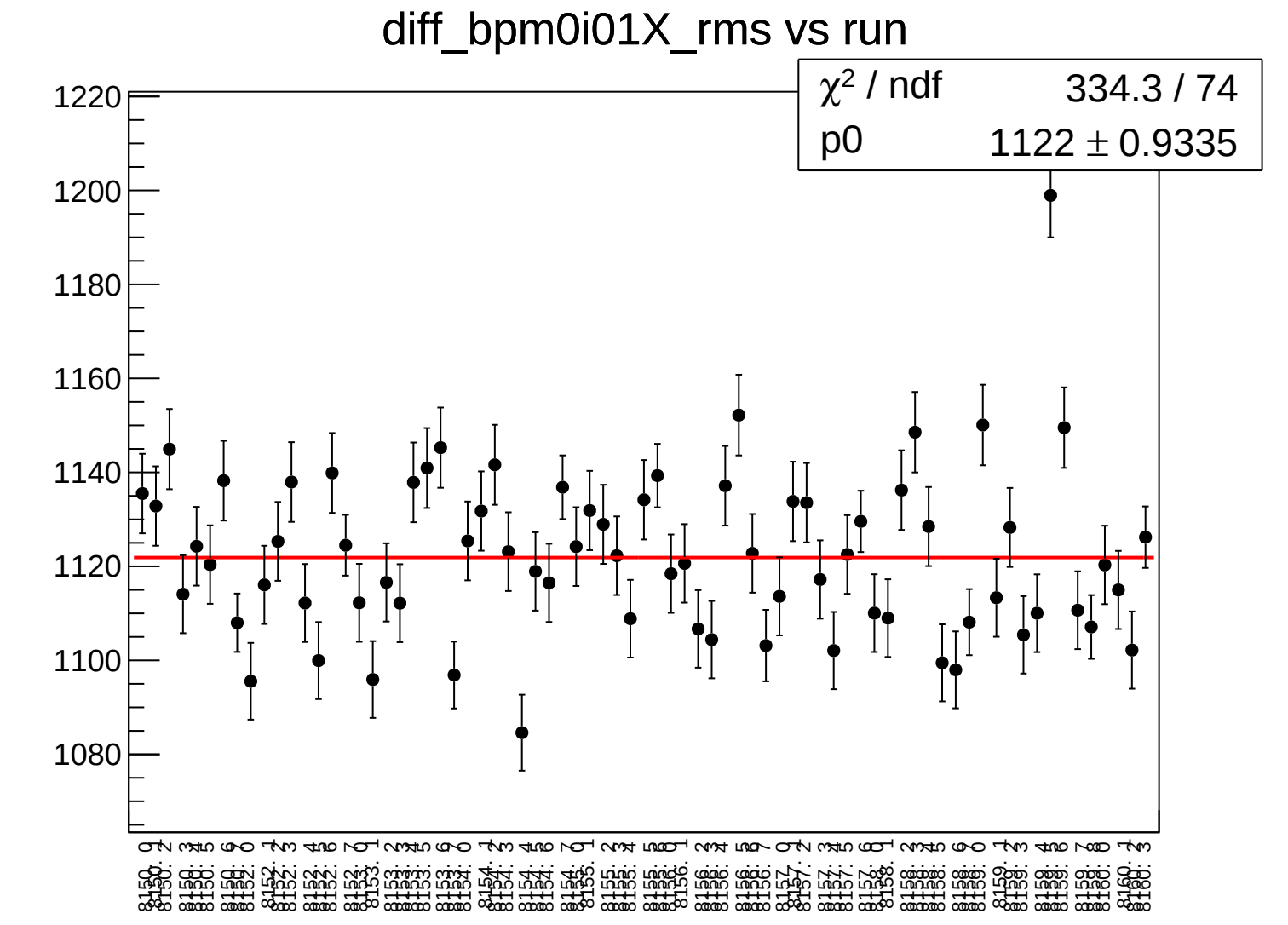

diff_cav4dY_mean vs run
χ² / ndf 52.97 / 74
p0 −7.664 ± 5.87
pull
Entries 75
Mean −1266
Std Dev 1292

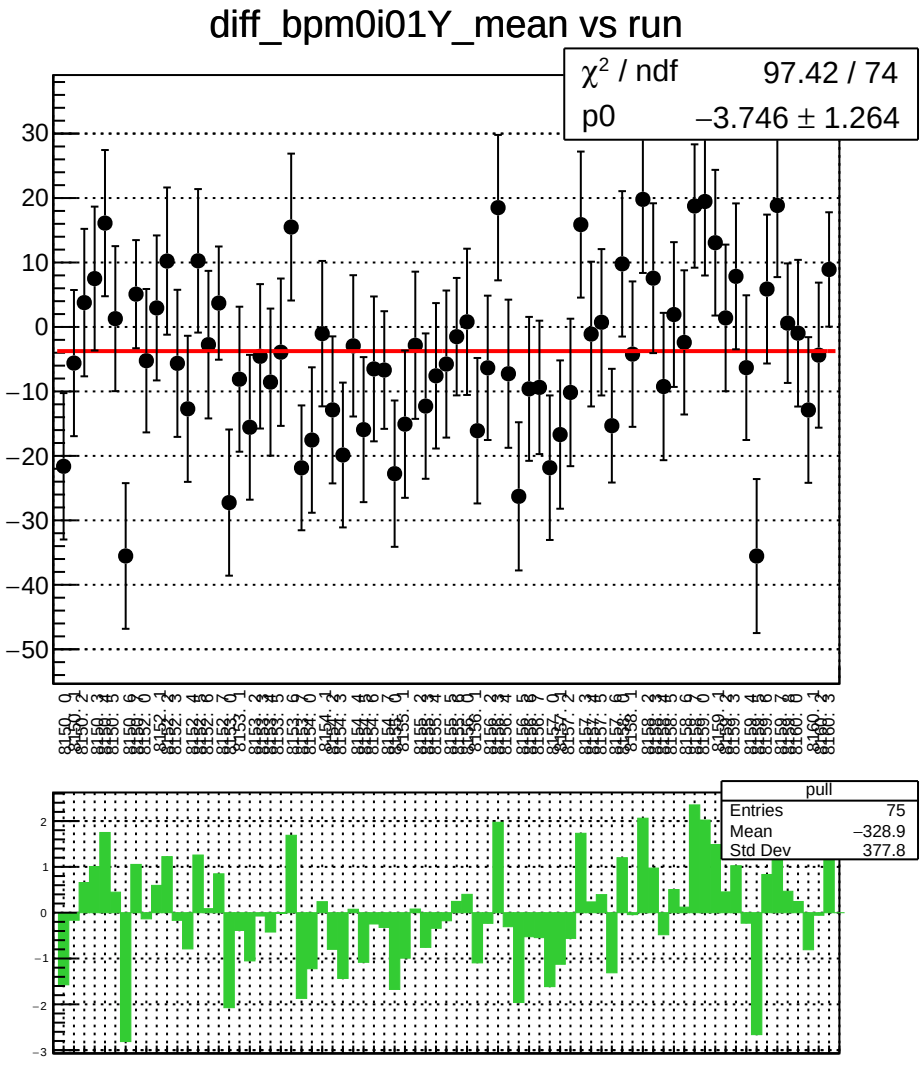

pull1D
Entries 75
Mean 0.0003746
Std Dev 0.8404

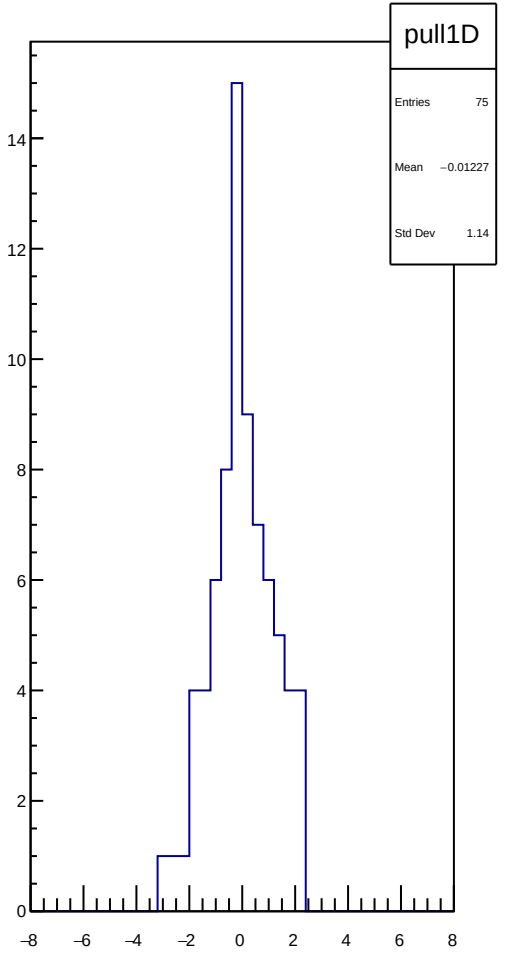

diff_cav4dY_rms vs run
χ² / ndf 5806 / 74
p0 4979 ± 4.151
6500
6000
5500
5000
4500

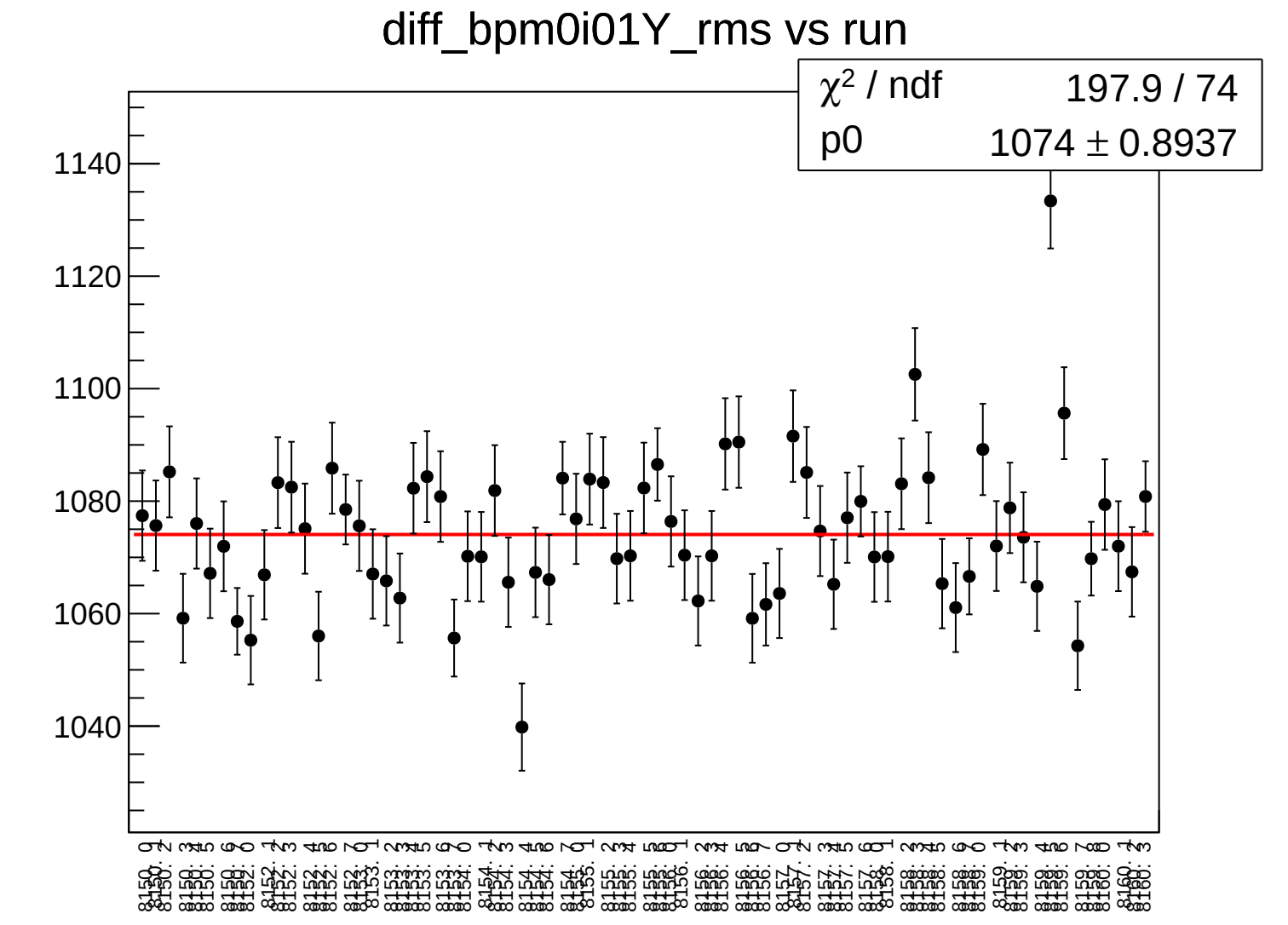

diff_bpm0i01X_mean vs run
χ² / ndf 97.82 / 74
p0 95.06 ± 1.32
140
120
100
80
60
pull
Entries 75
Mean −7151
Std Dev 7185
3
2
1
0
−1
−2

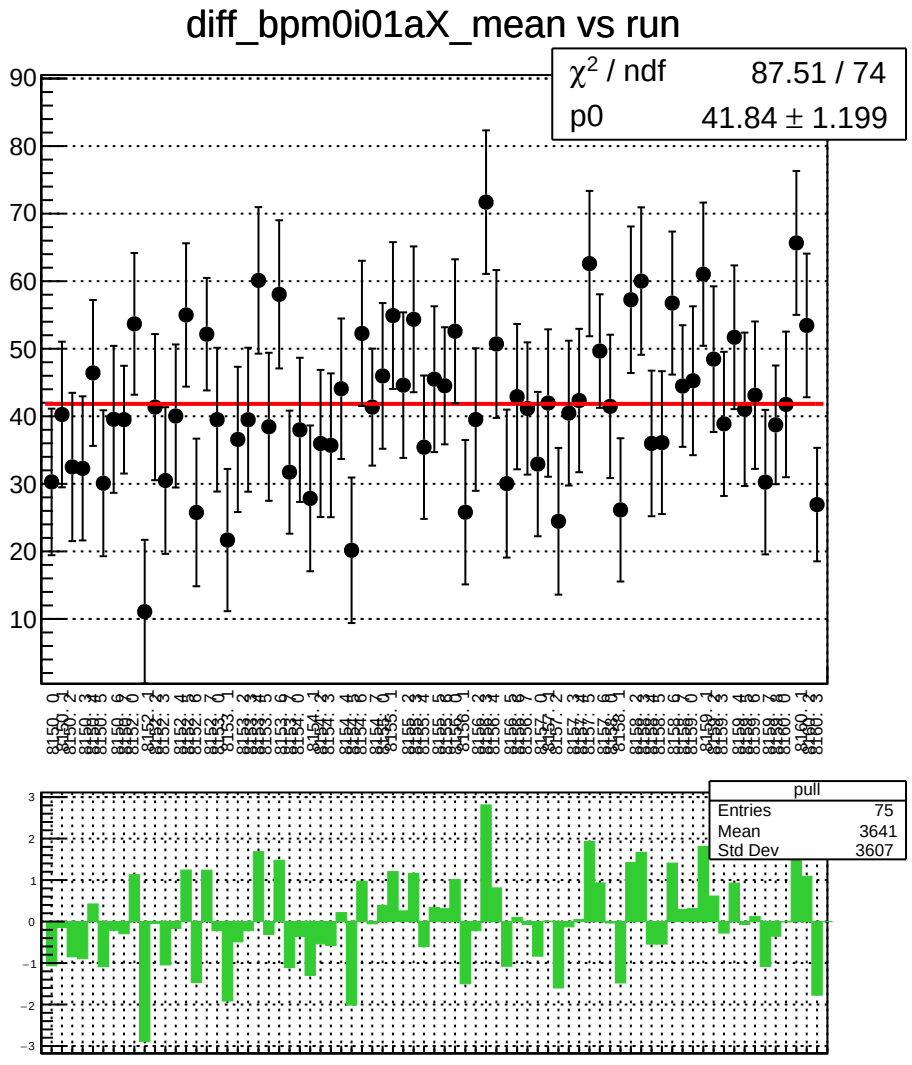

pull1D
Entries 75
Mean −0.0009103
Std Dev 1.142
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

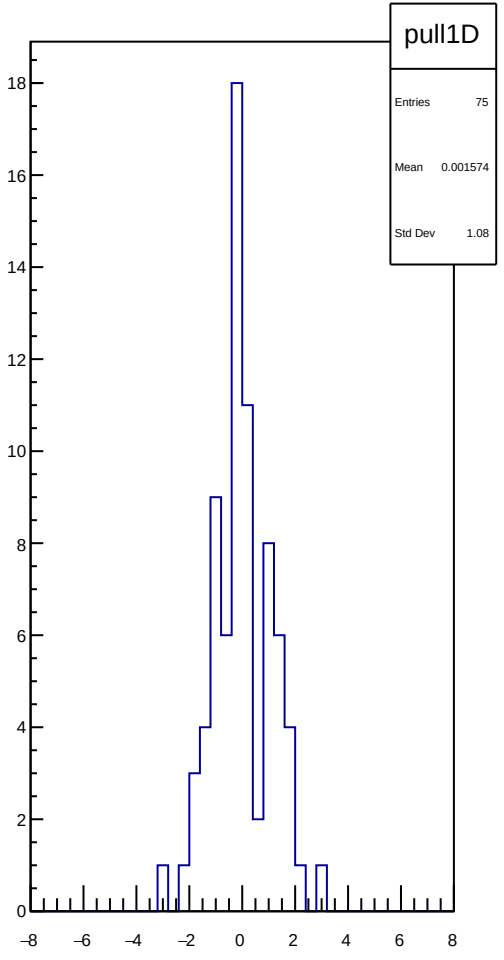

diff_bpm0i01X_rms vs run
χ² / ndf 334.3 / 74
p0 1122 ± 0.9335
1220
1200
1180
1160
1140
1120
1100
1080

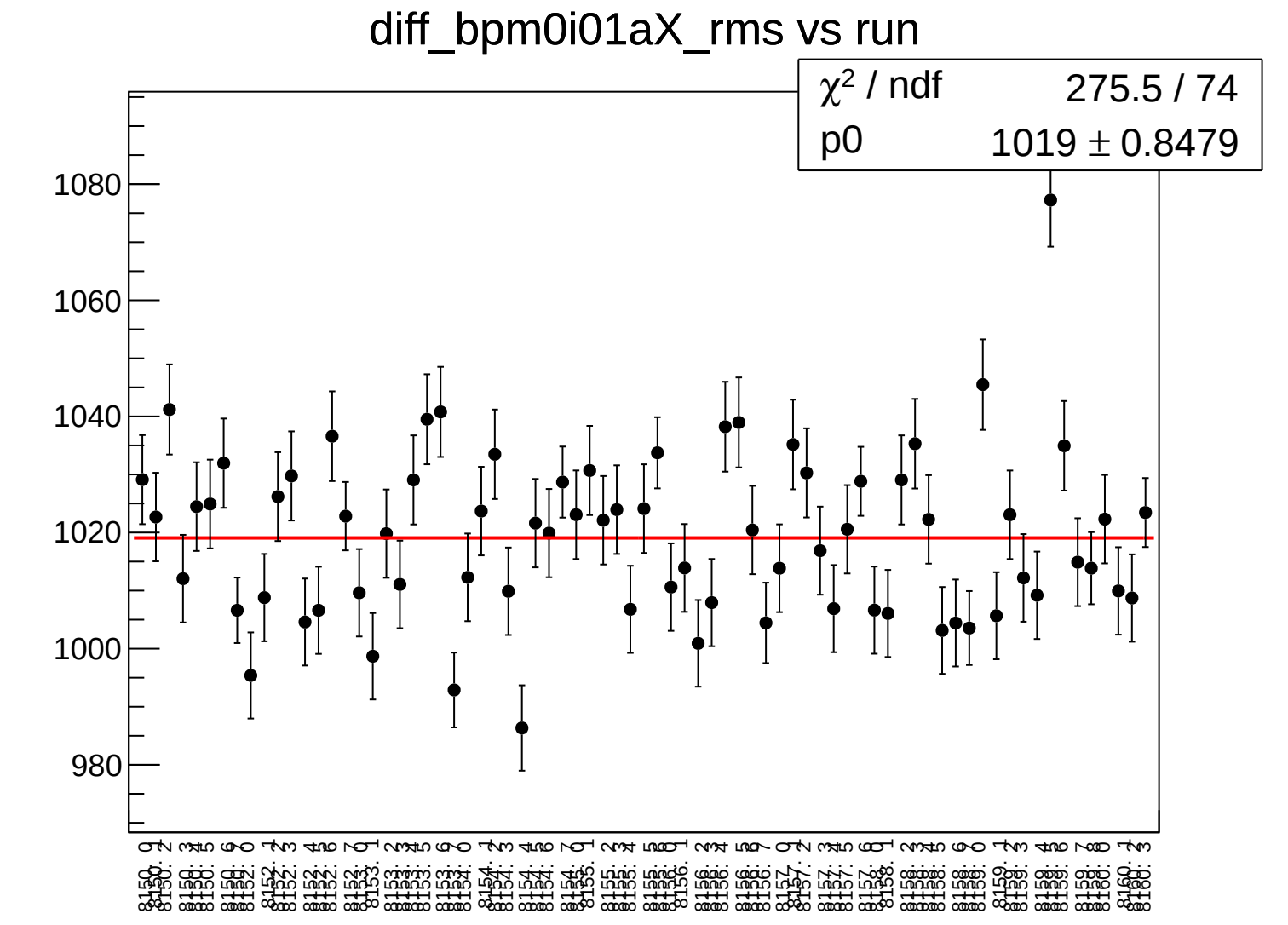

diff_bpm0i01Y_mean vs run
χ² / ndf 97.42 / 74
p0 −3.746 ± 1.264
pull
Entries 75
Mean −328.9
Std Dev 377.8

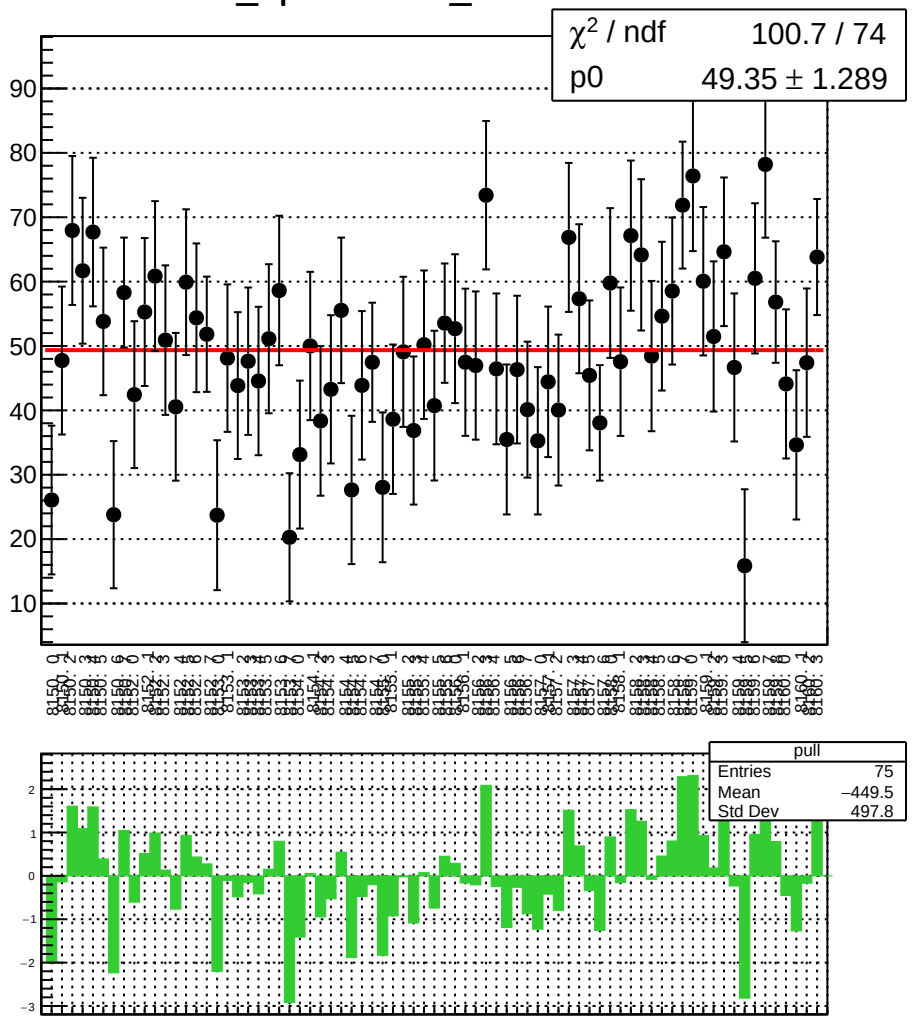

pull1D
Entries 75
Mean −0.01227
Std Dev 1.14

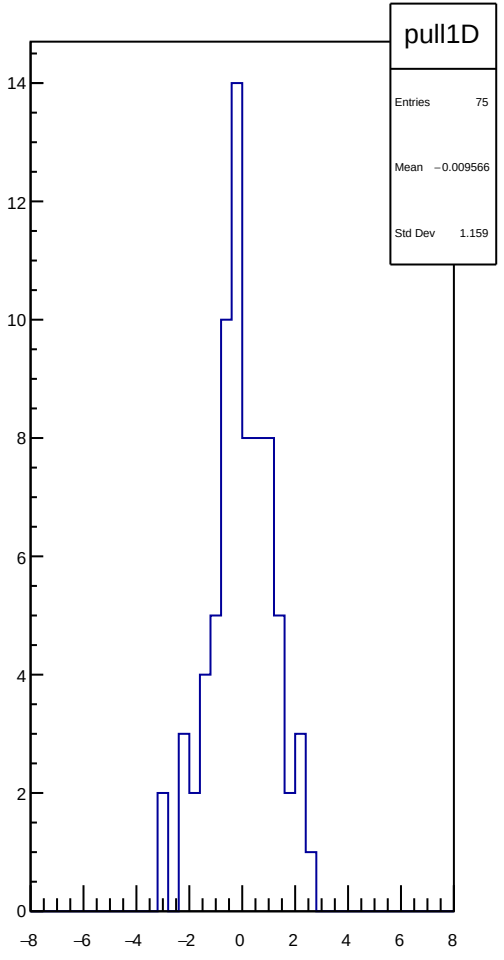

diff_bpm0i01Y_rms vs run
χ² / ndf 197.9 / 74
p0 1074 ± 0.8937
1140
1120
1100
1080
1060
1040

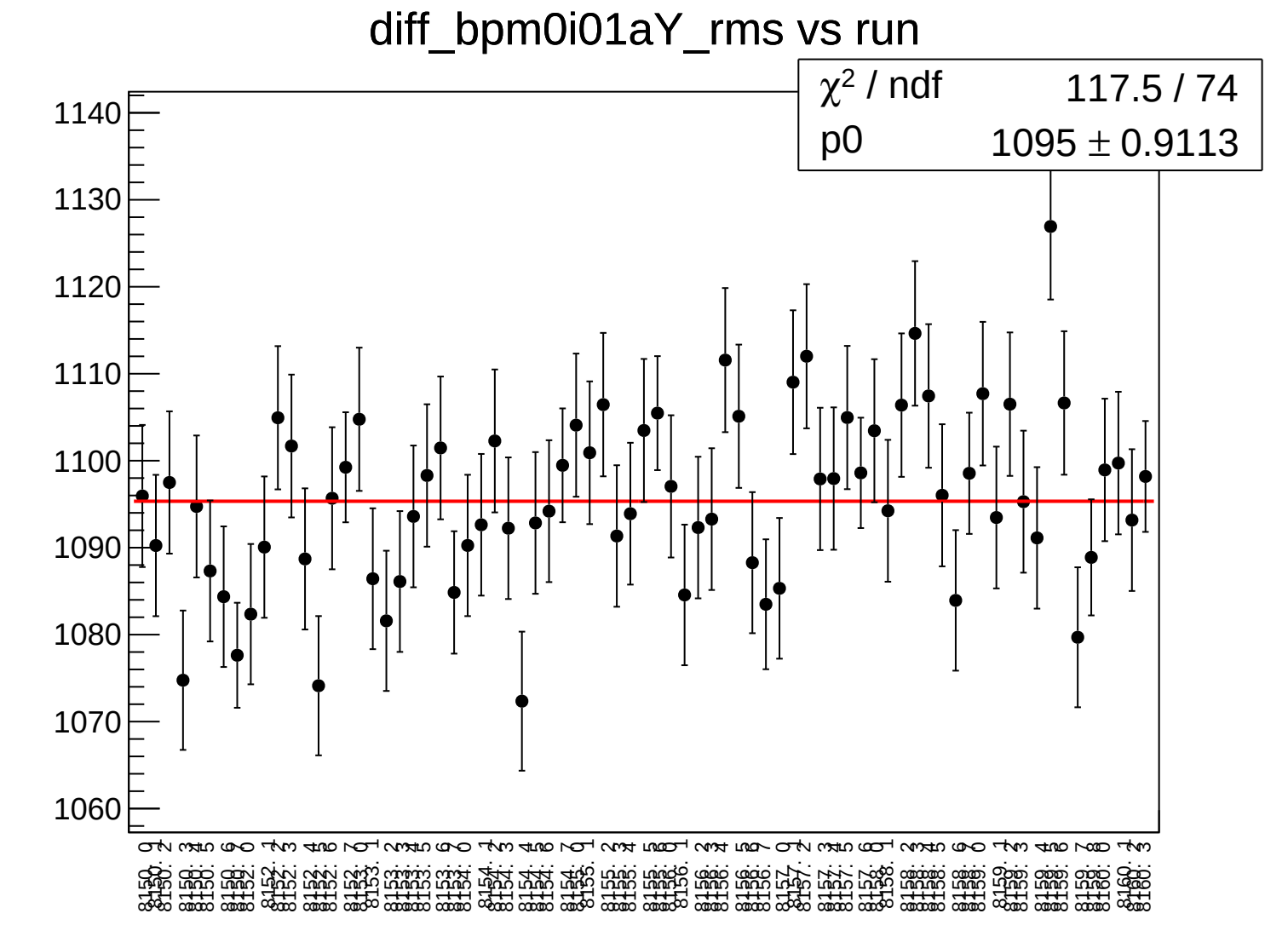

diff_bpm0i01aX_mean vs run
χ^2 / ndf 87.51 / 74
p0 41.84 ± 1.199
pull
Entries 75
Mean 3641
Std Dev 3607

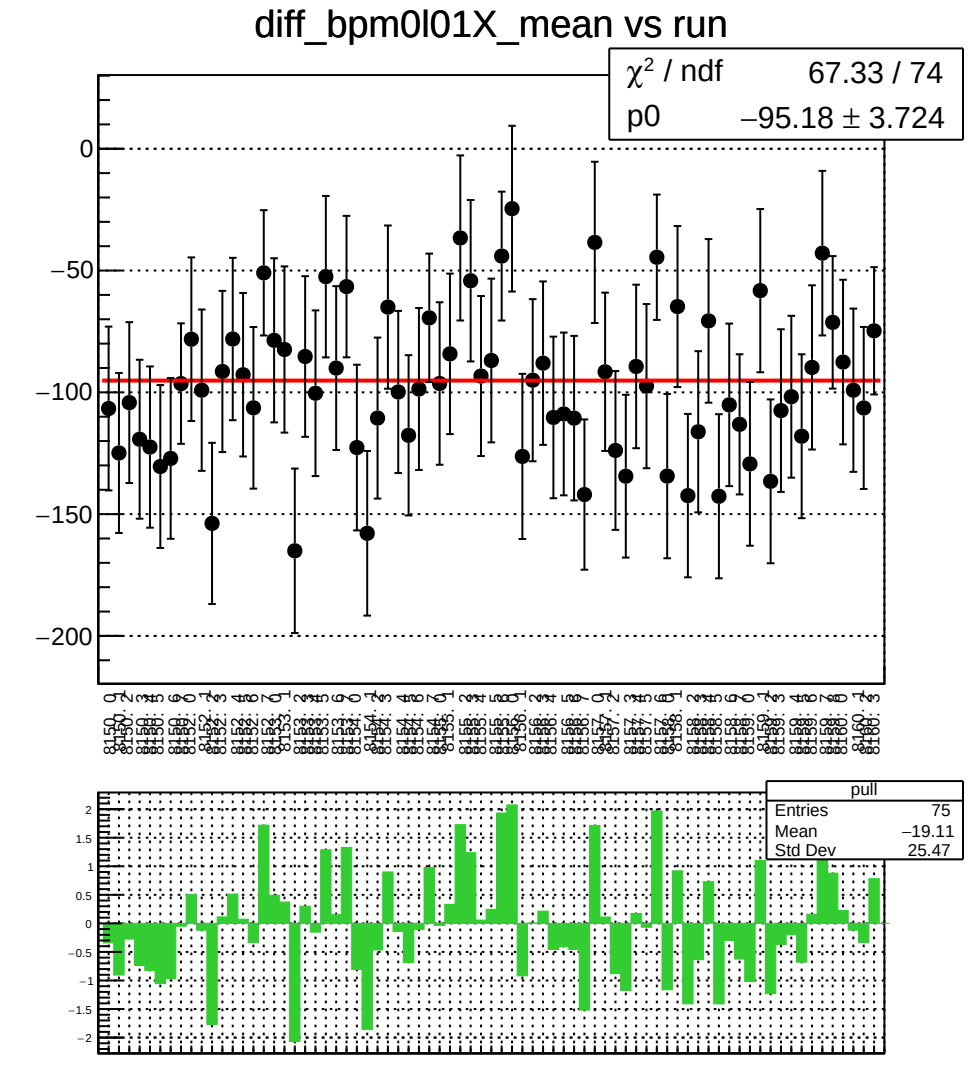

pull1D
Entries 75
Mean 0.001574
Std Dev 1.08

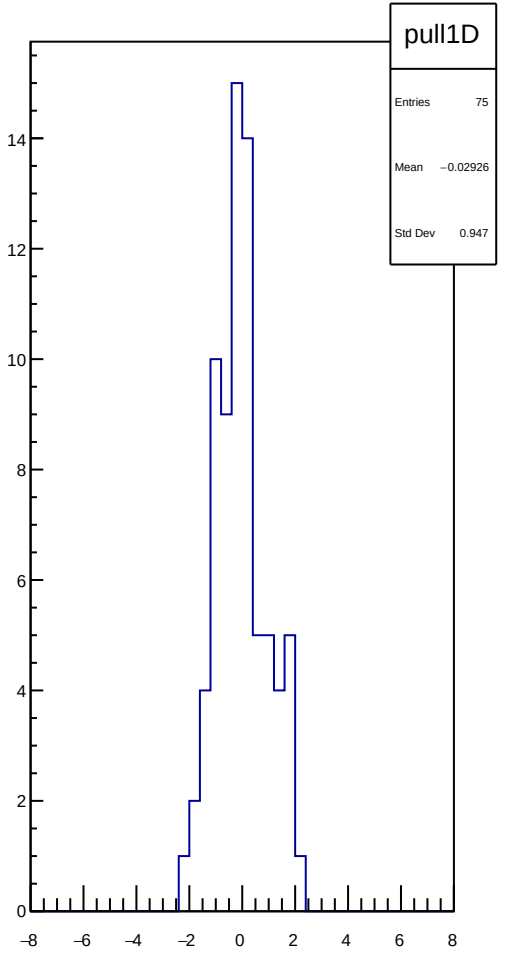

diff_bpm0i01aX_rms vs run
χ^2 / ndf 275.5 / 74
p0 1019 ± 0.8479
1080
1060
1040
1020
1000
980

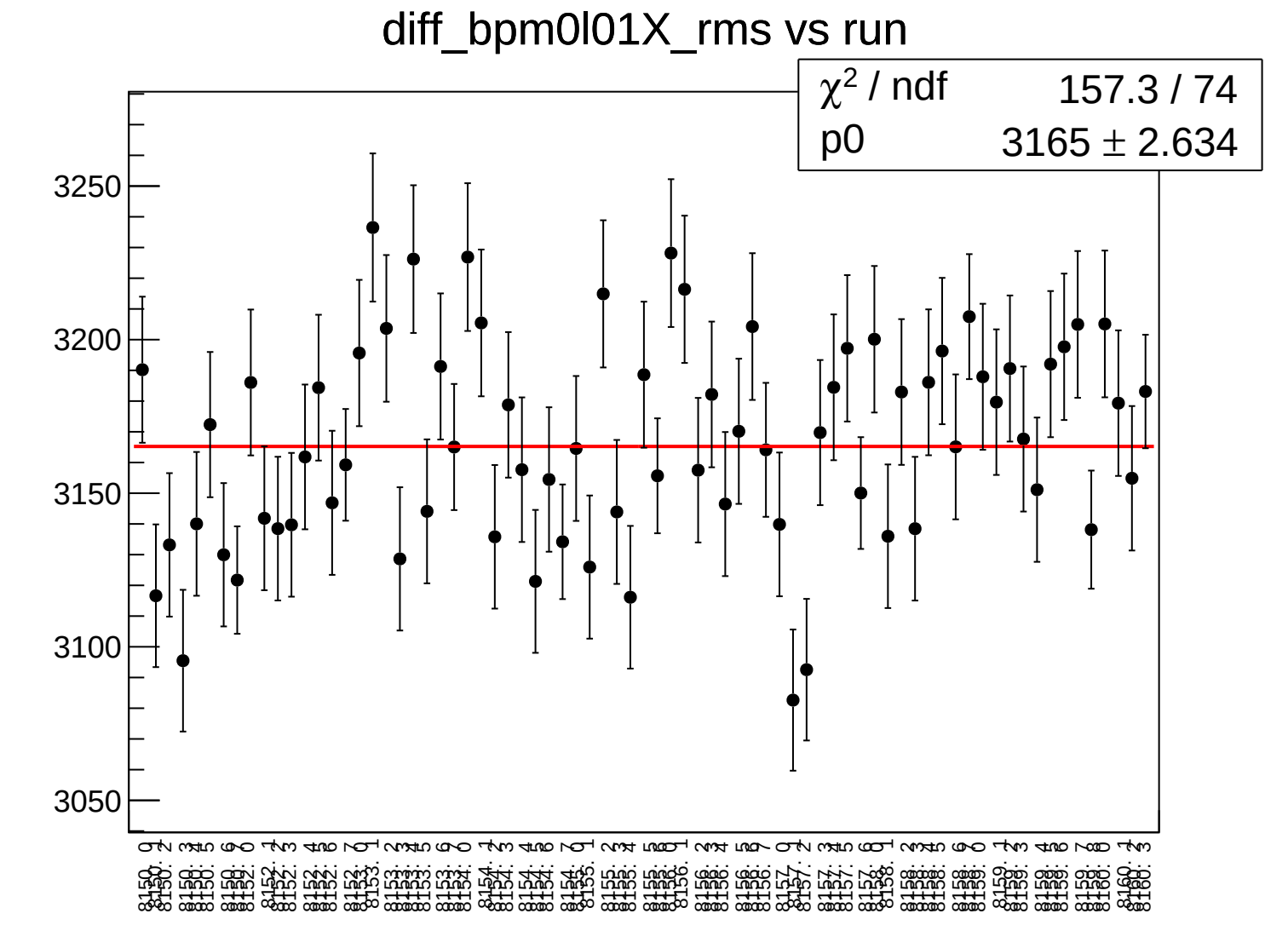

diff_bpm0i01aY_mean vs run
χ^2 / ndf 100.7 / 74
p0 49.35 ± 1.289
pull
Entries 75
Mean −449.5
Std Dev 497.8

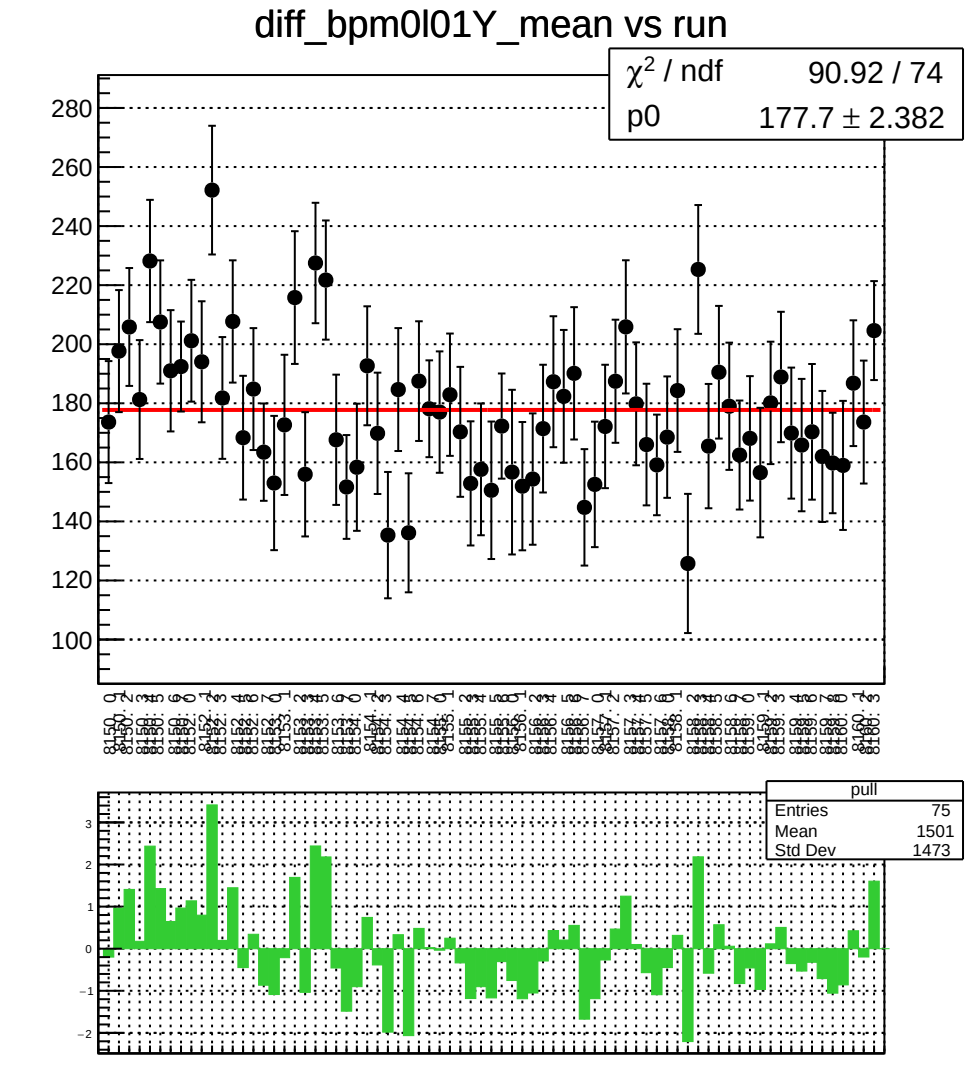

pull1D
Entries 75
Mean −0.009566
Std Dev 1.159

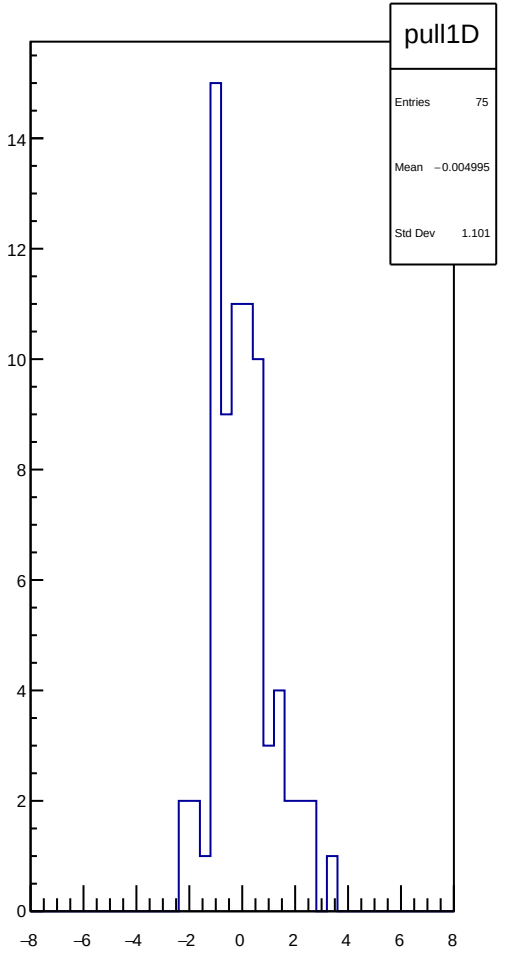

diff_bpm0i01aY_rms vs run
χ^2 / ndf 117.5 / 74
p0 1095 ± 0.9113
1140
1130
1120
1110
1100
1090
1080
1070
1060

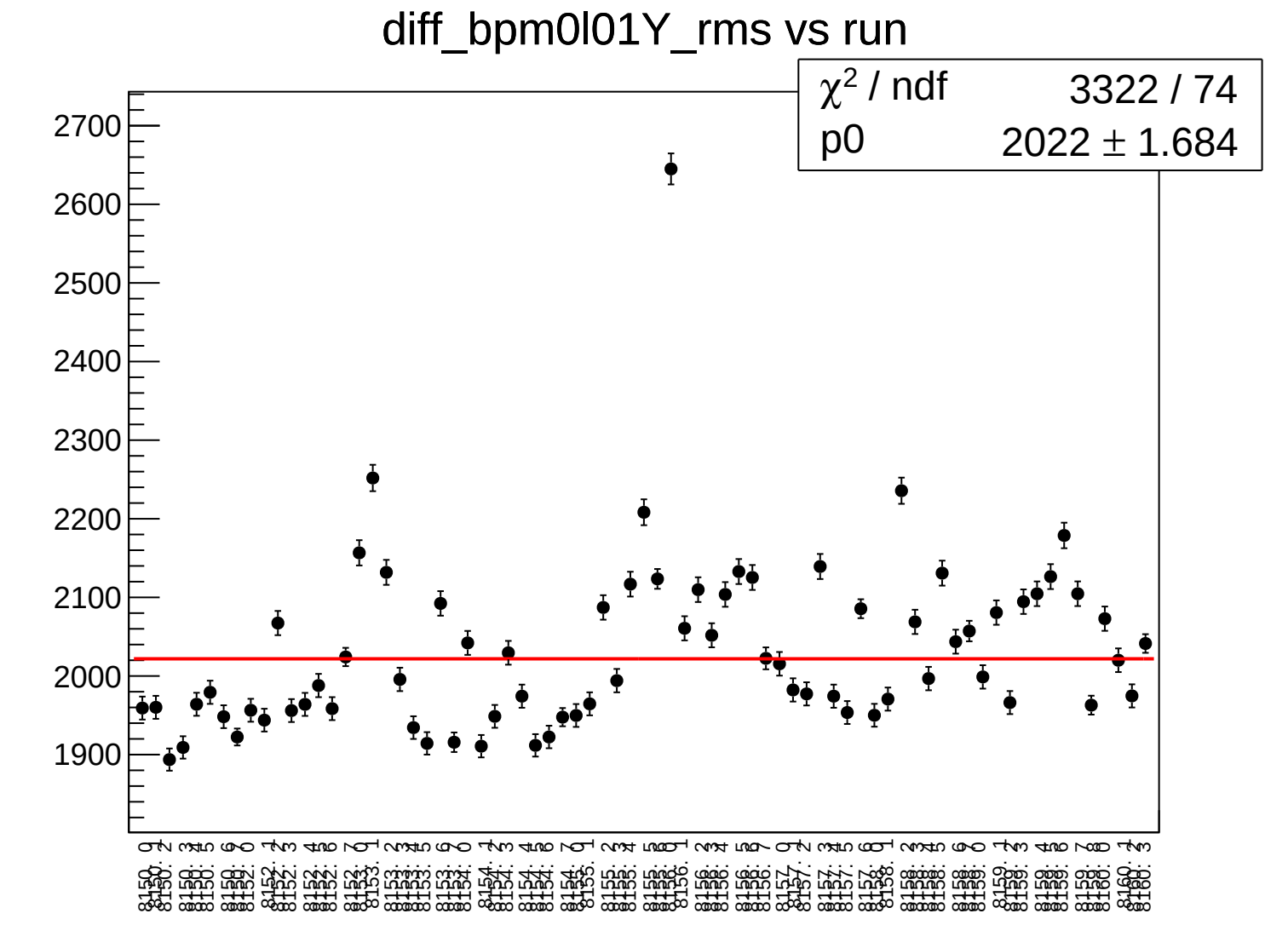

diff_bpm0l01X_mean vs run
χ² / ndf 67.33 / 74
p0 −95.18 ± 3.724
pull
Entries 75
Mean −19.11
Std Dev 25.47

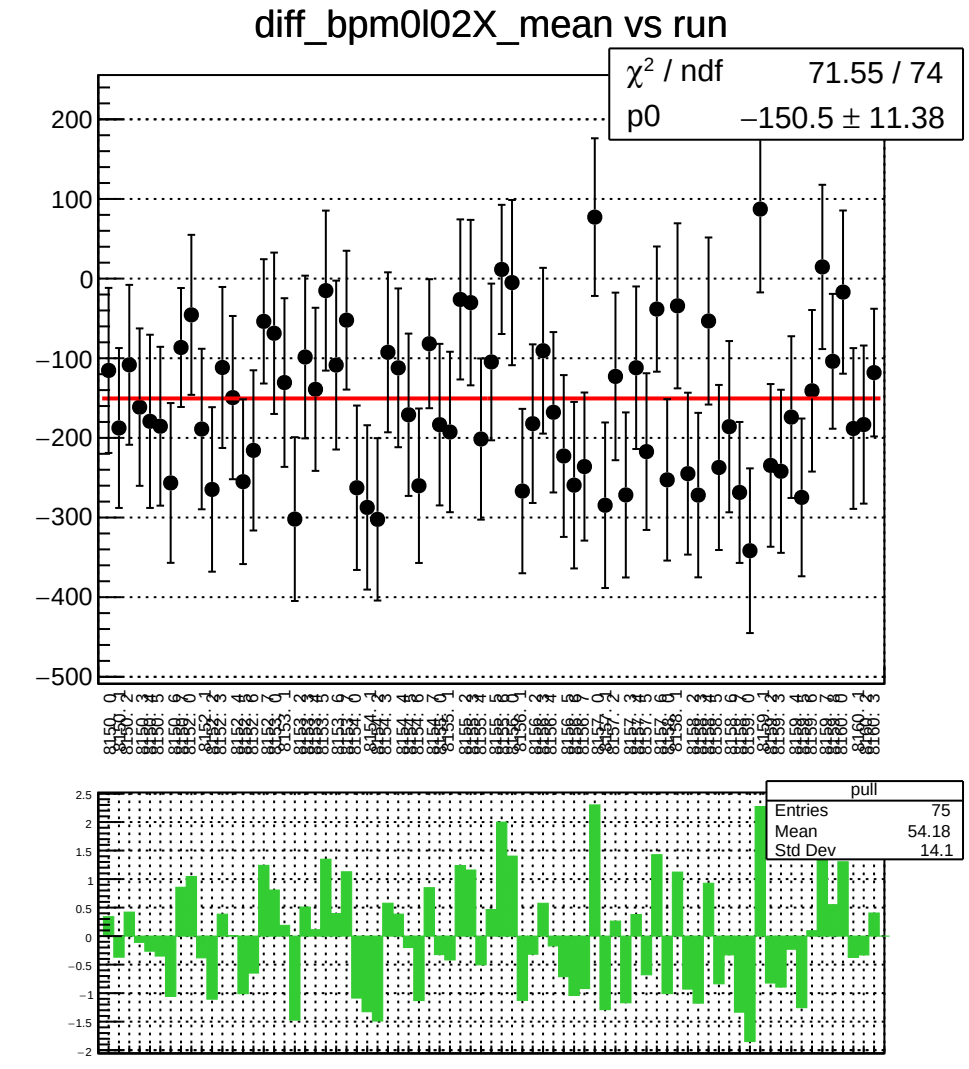

pull1D
Entries 75
Mean −0.02926
Std Dev 0.947

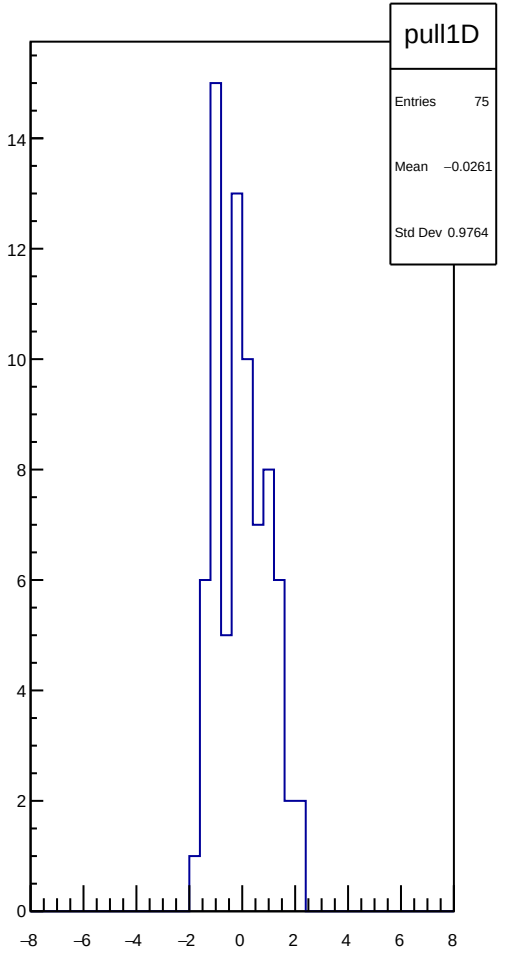

diff_bpm0l01X_rms vs run
χ² / ndf 157.3 / 74
p0 3165 ± 2.634
3250
3200
3150
3100
3050

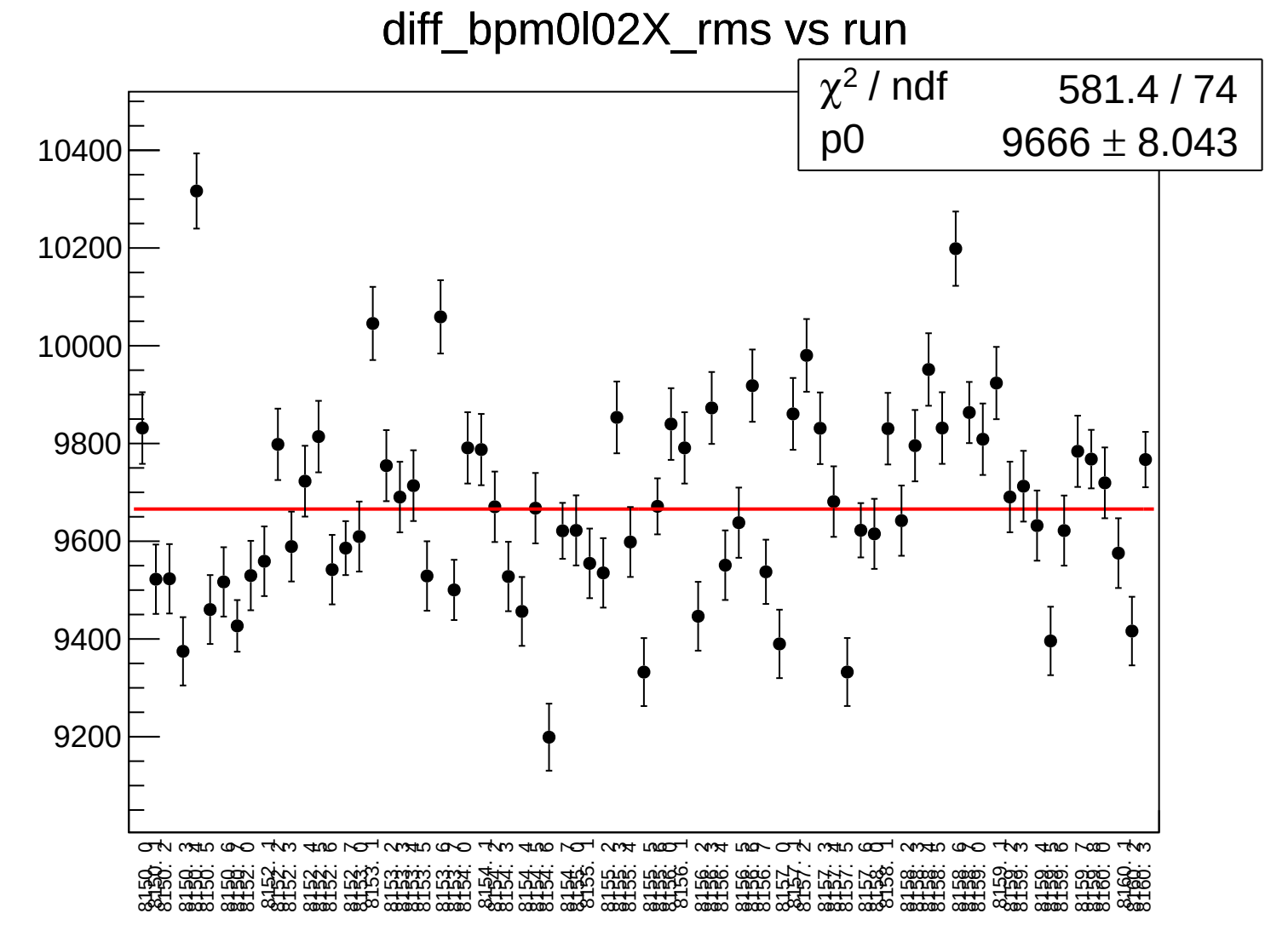

diff_bpm0l01Y_mean vs run
χ² / ndf 90.92 / 74
p0 177.7 ± 2.382
pull
Entries 75
Mean 1501
Std Dev 1473

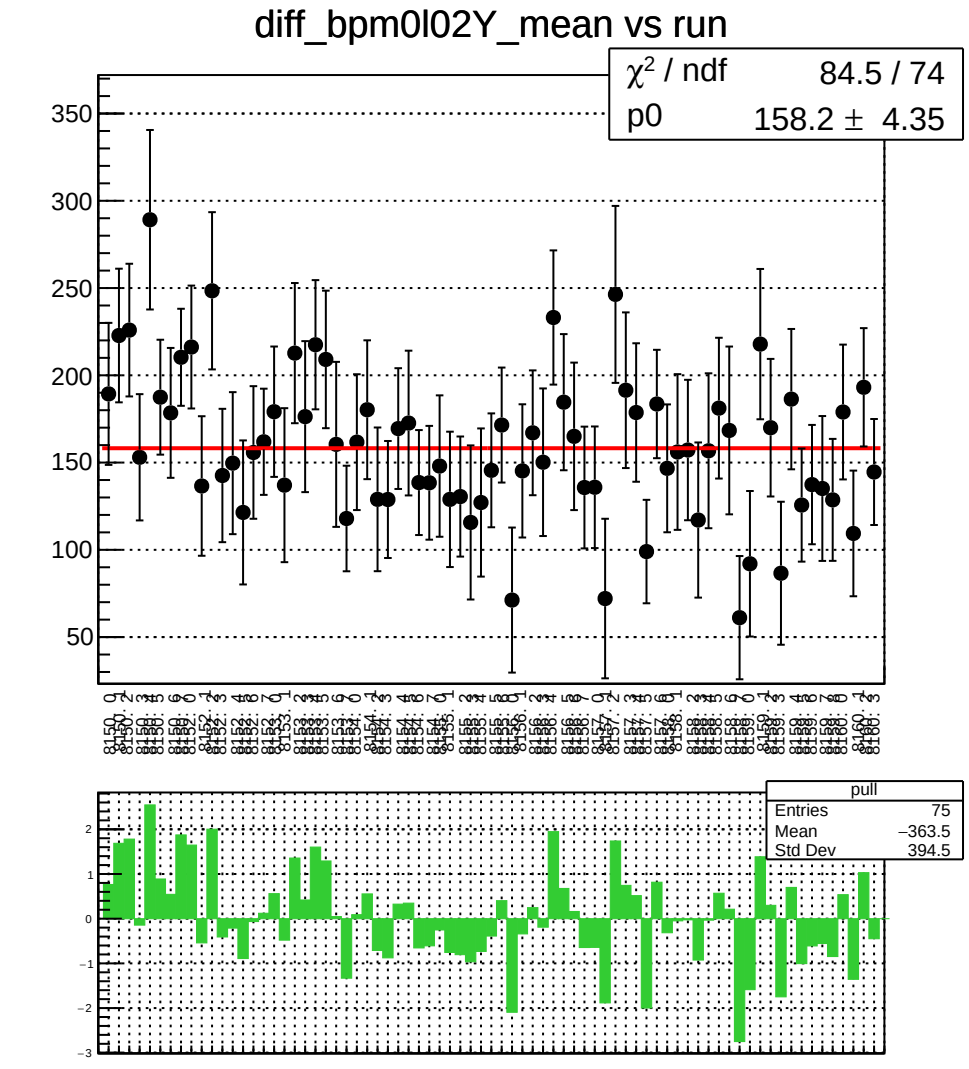

pull1D
Entries 75
Mean −0.004995
Std Dev 1.101

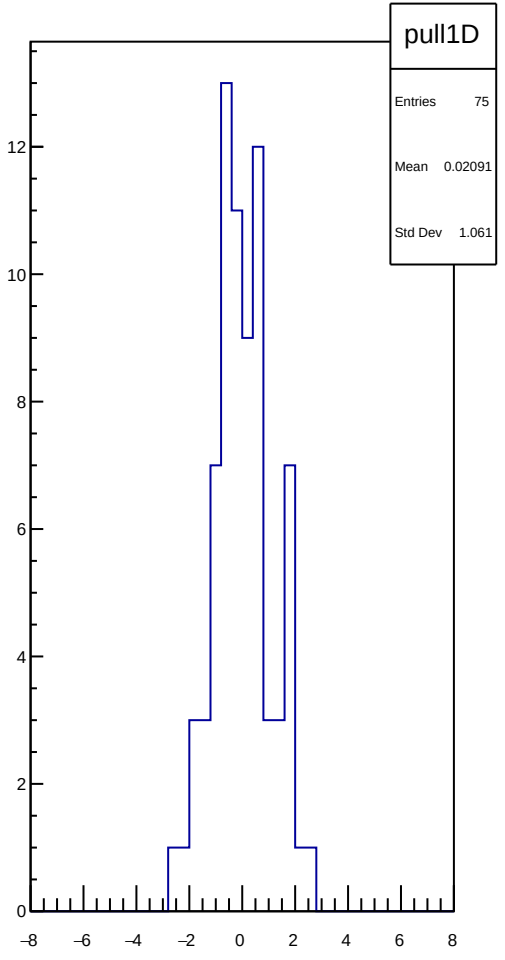

diff_bpm0l01Y_rms vs run
χ² / ndf 3322 / 74
p0 2022 ± 1.684
2700
2600
2500
2400
2300
2200
2100
2000
1900

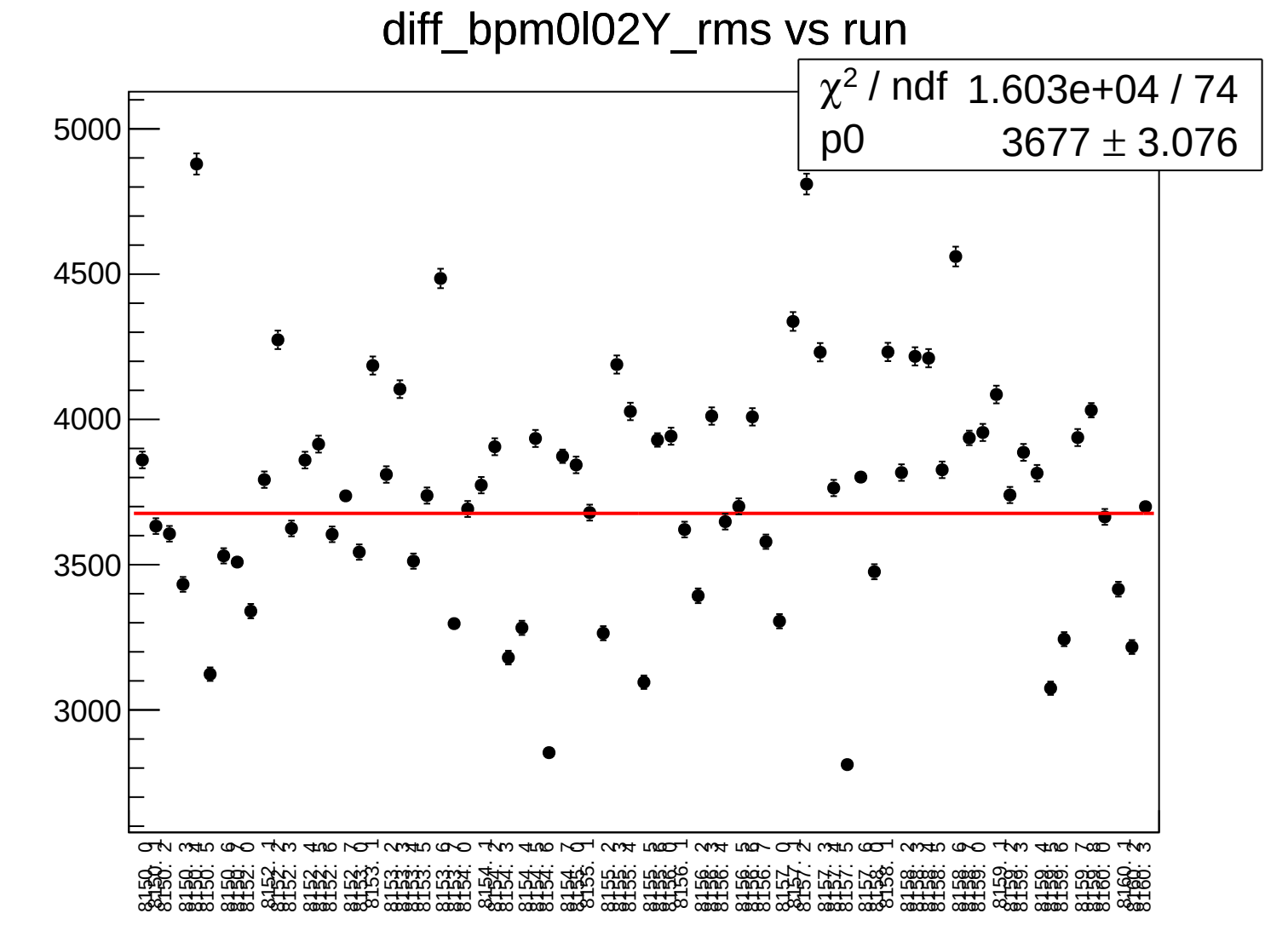

diff_bpm0l02X_mean vs run
χ² / ndf 71.55 / 74
p0 −150.5 ± 11.38
pull
Entries 75
Mean 54.18
Std Dev 14.1

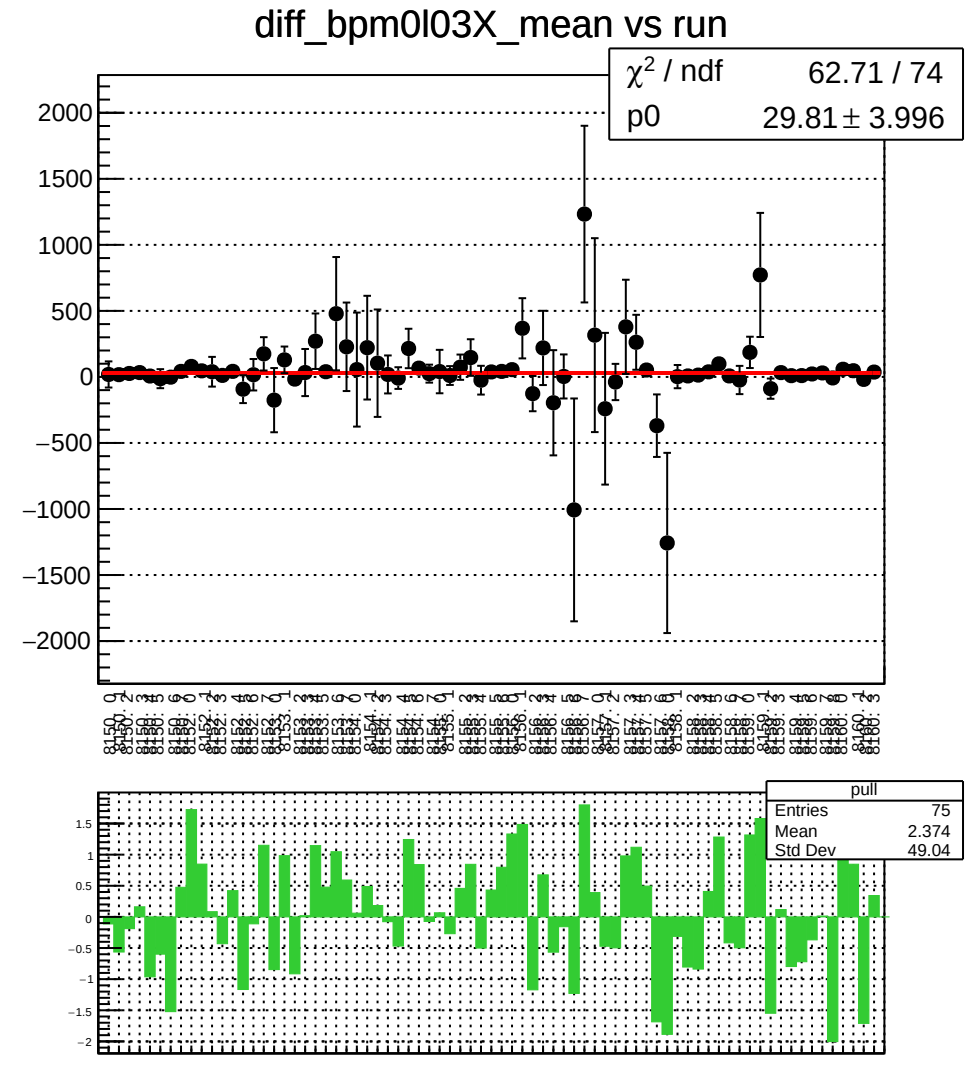

pull1D
Entries 75
Mean −0.0261
Std Dev 0.9764

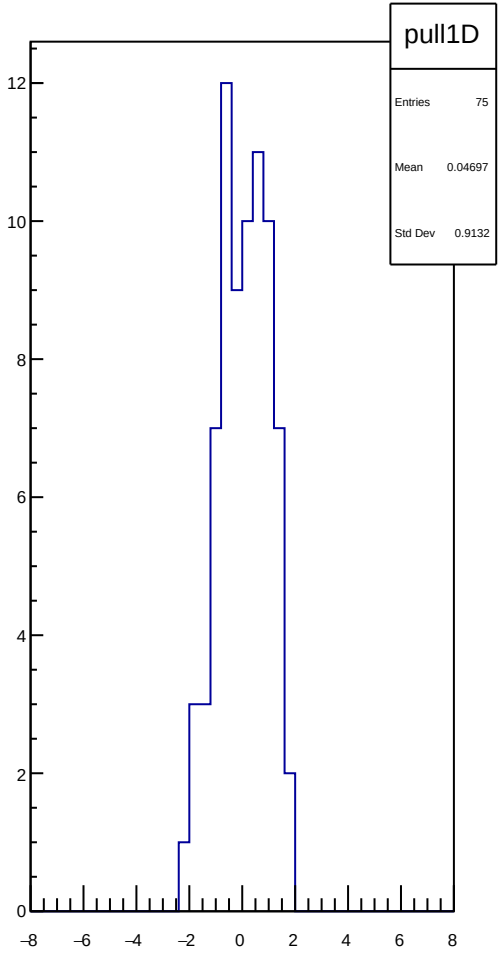

diff_bpm0l02X_rms vs run
χ² / ndf 581.4 / 74
p0 9666 ± 8.043
10400
10200
10000
9800
9600
9400
9200

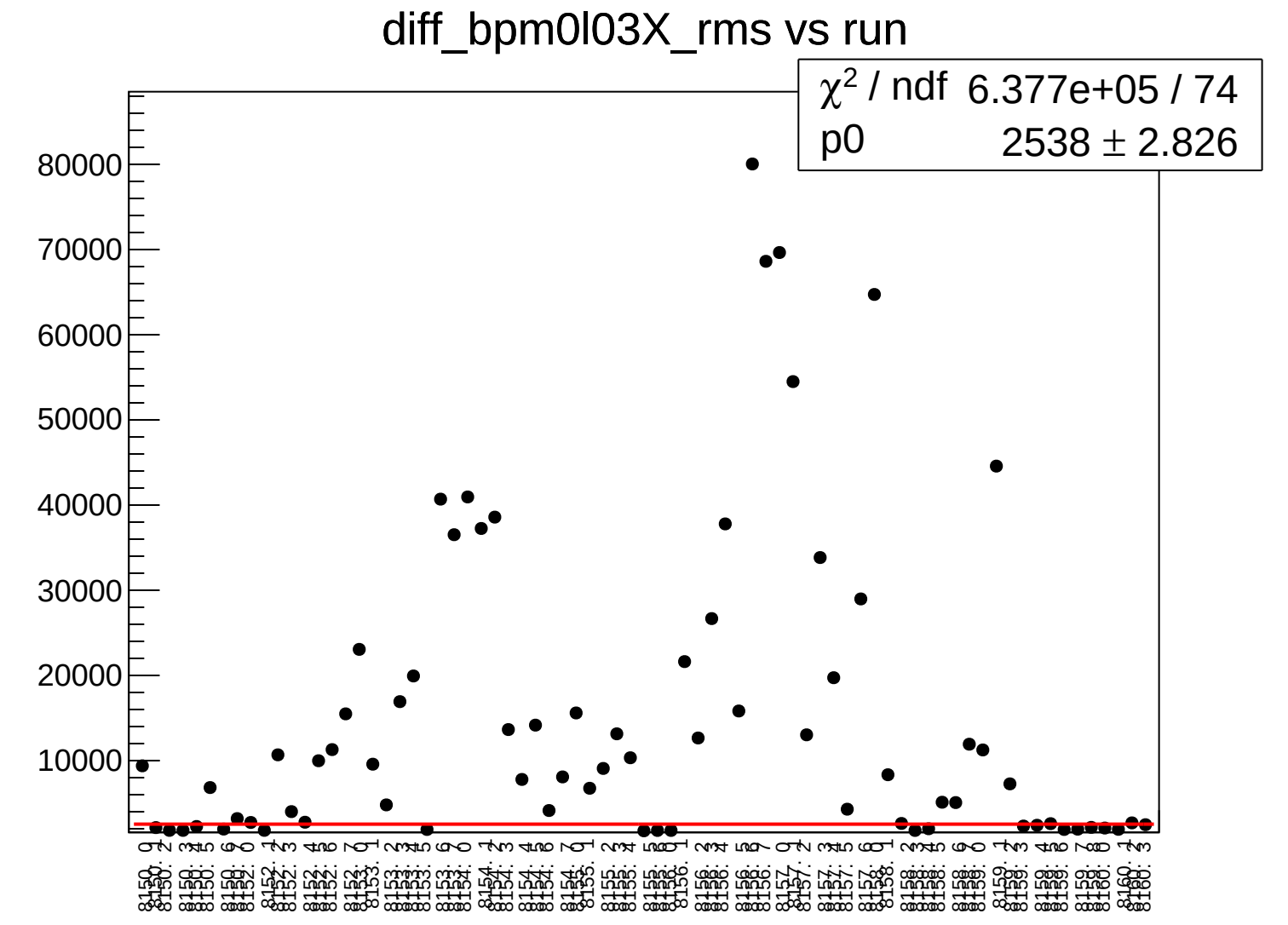

diff_bpm0l02Y_mean vs run
χ² / ndf 84.5 / 74
p0 158.2 ± 4.35
pull
Entries 75
Mean −363.5
Std Dev 394.5

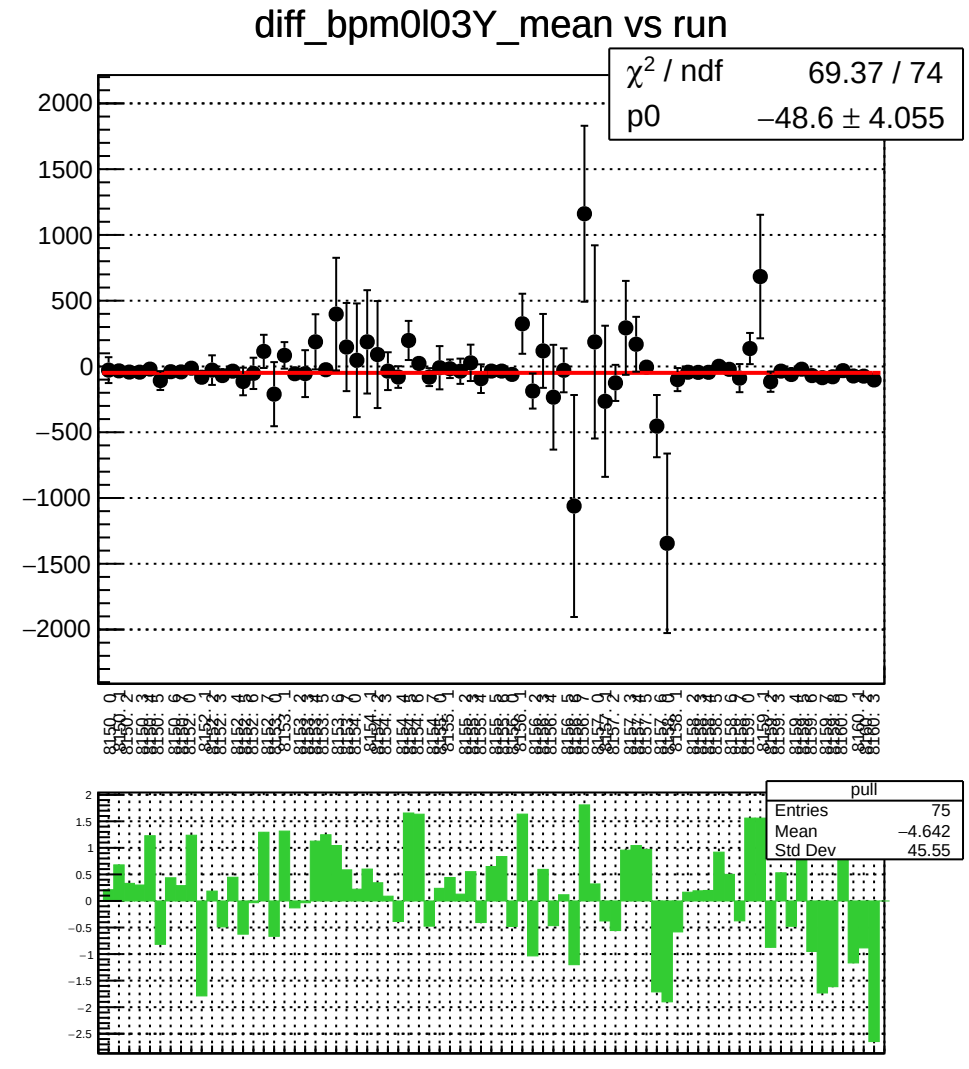

pull1D
Entries 75
Mean 0.02091
Std Dev 1.061

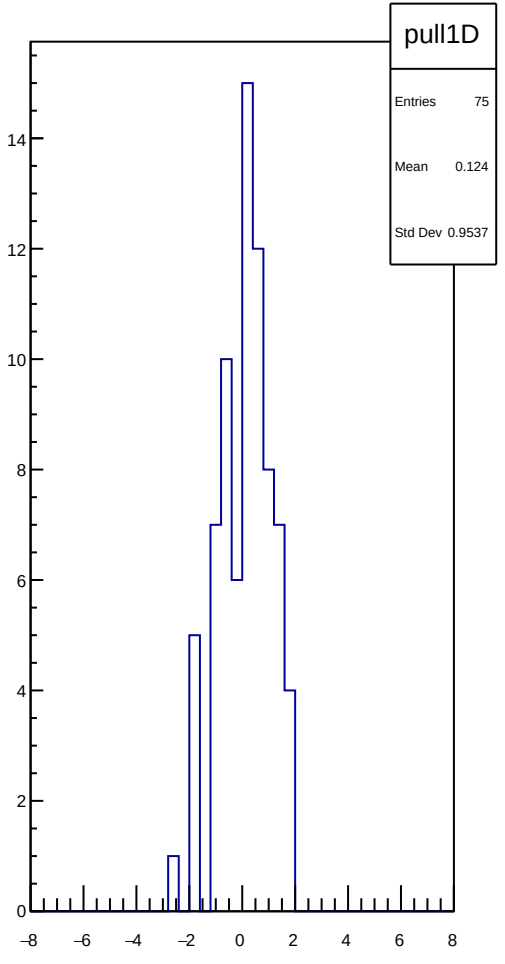

diff_bpm0l02Y_rms vs run
χ² / ndf 1.603e+04 / 74
p0 3677 ± 3.076
5000
4500
4000
3500
3000

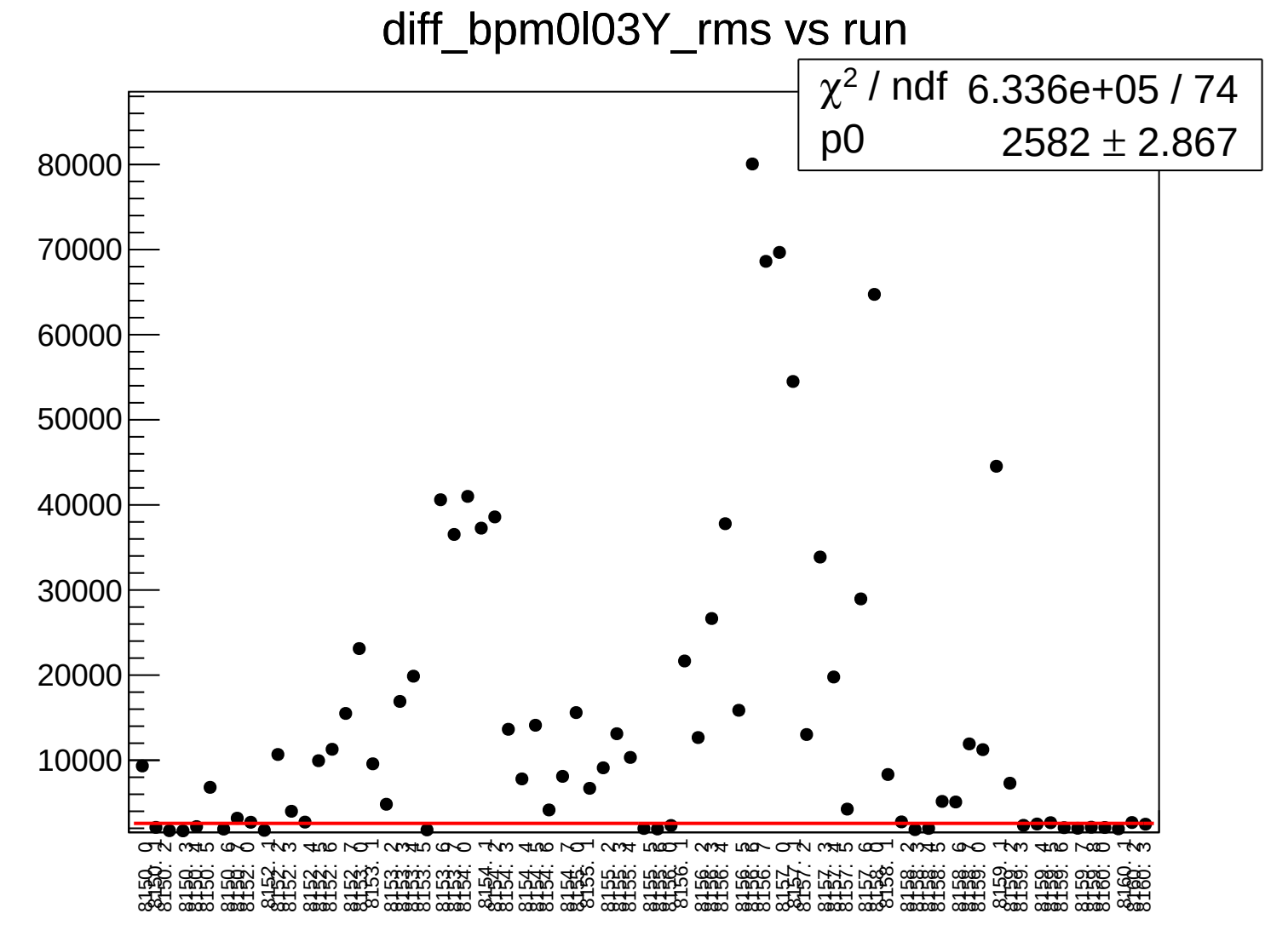

diff_bpm0l03X_mean vs run
χ² / ndf 62.71 / 74
p0 29.81 ± 3.996
pull
Entries 75
Mean 2.374
Std Dev 49.04

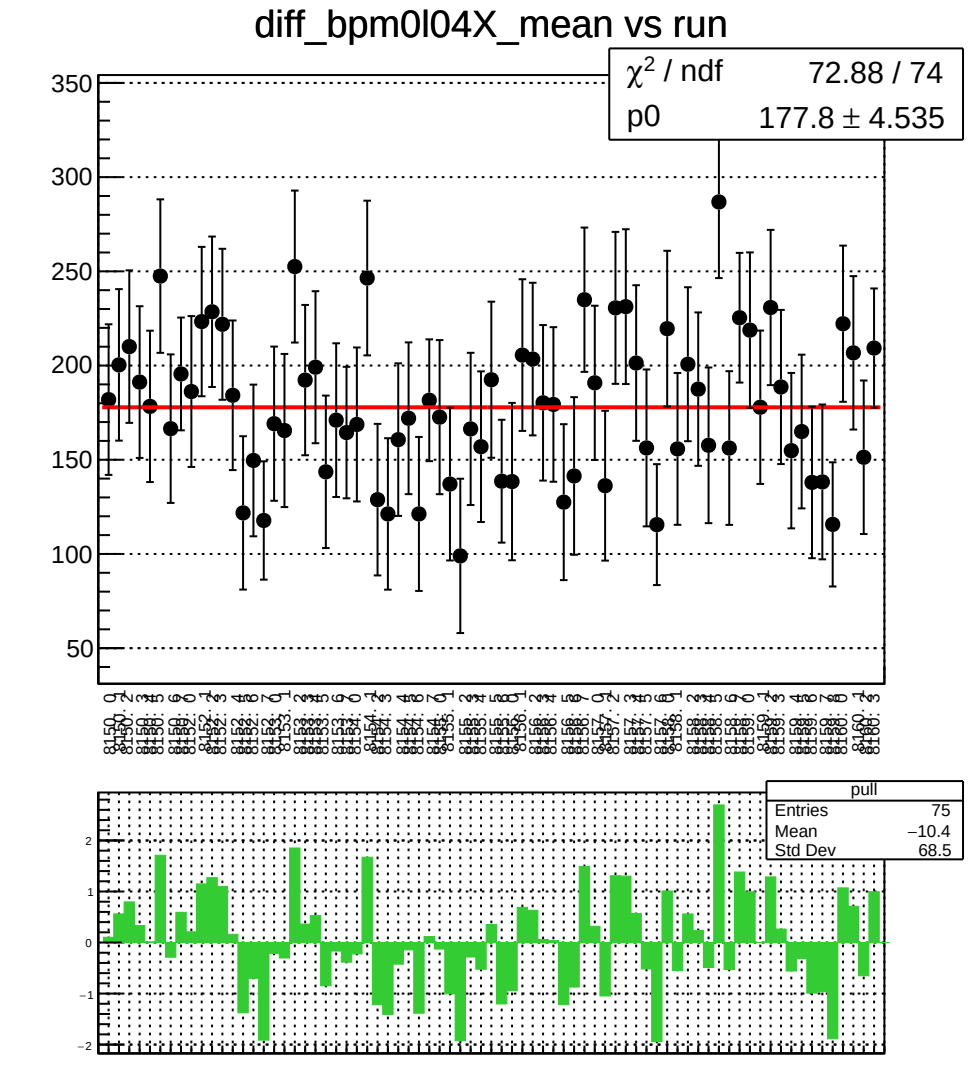

pull1D
Entries 75
Mean 0.04697
Std Dev 0.9132

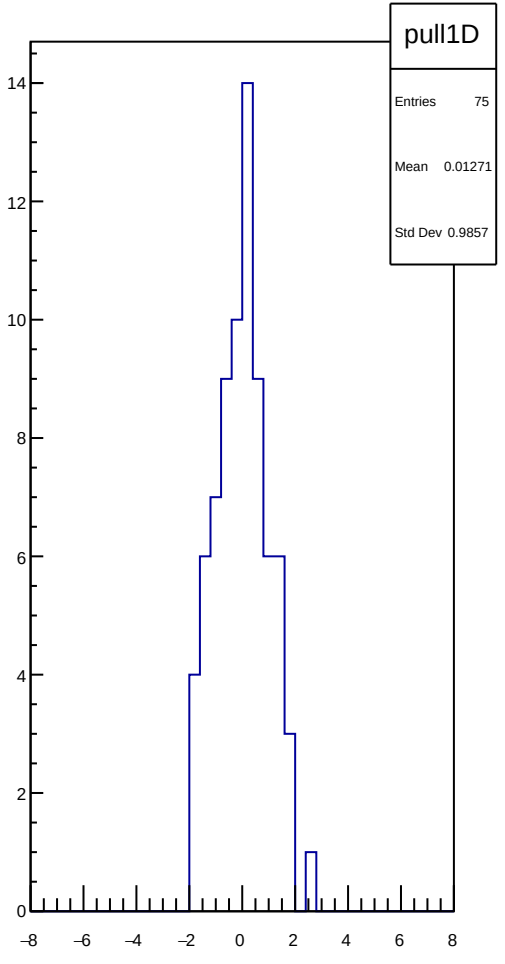

diff_bpm0l03X_rms vs run
χ^2 / ndf 6.377e+05 / 74
p0 2538 ± 2.826
80000
70000
60000
50000
40000
30000
20000
10000

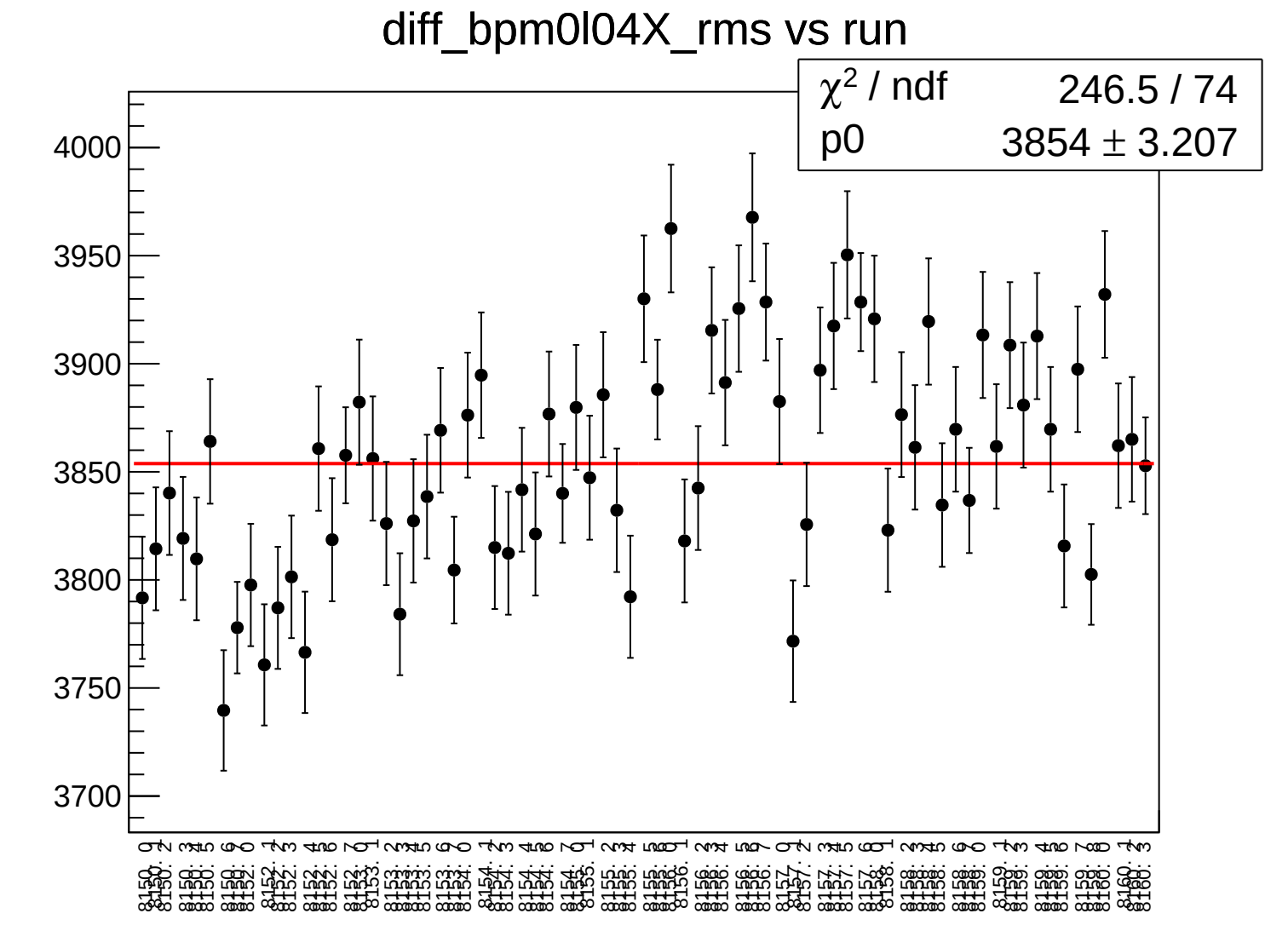

diff_bpm0l03Y_mean vs run
χ² / ndf 69.37 / 74
p0 −48.6 ± 4.055
pull
Entries 75
Mean −4.642
Std Dev 45.55

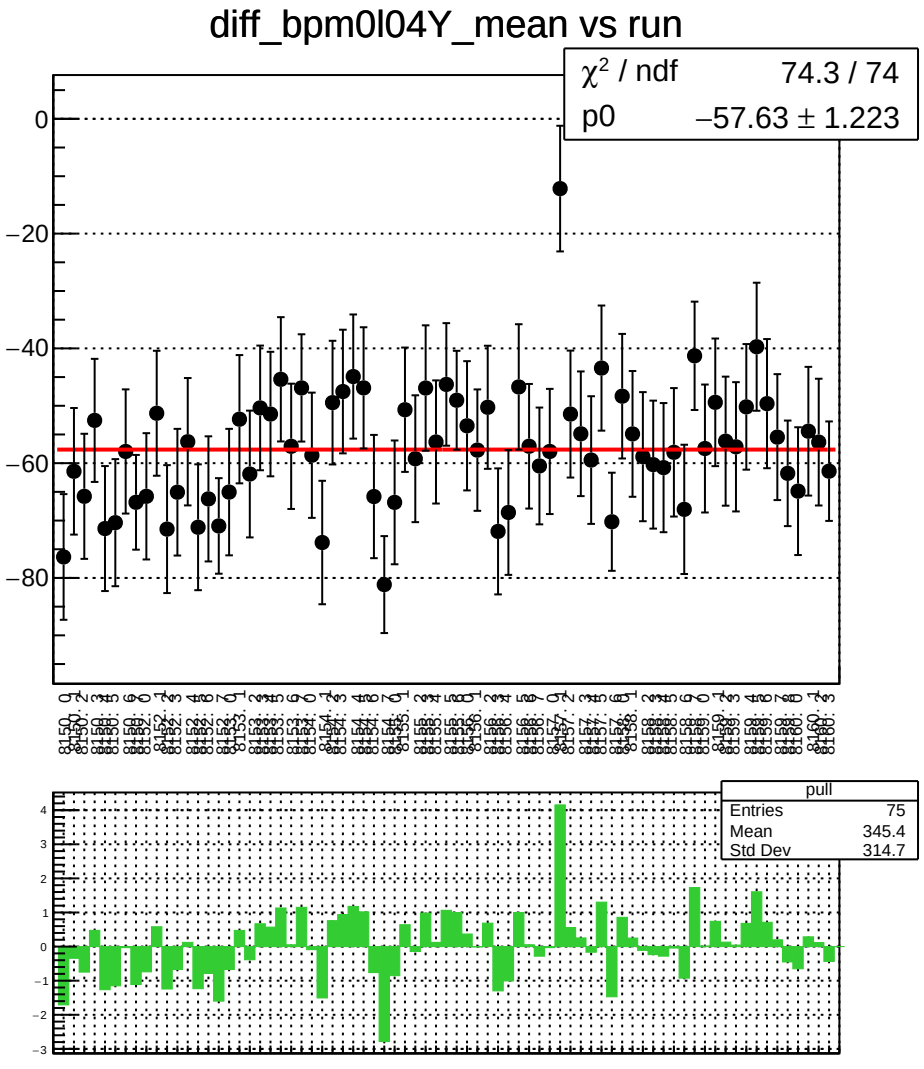

pull1D
Entries 75
Mean 0.124
Std Dev 0.9537

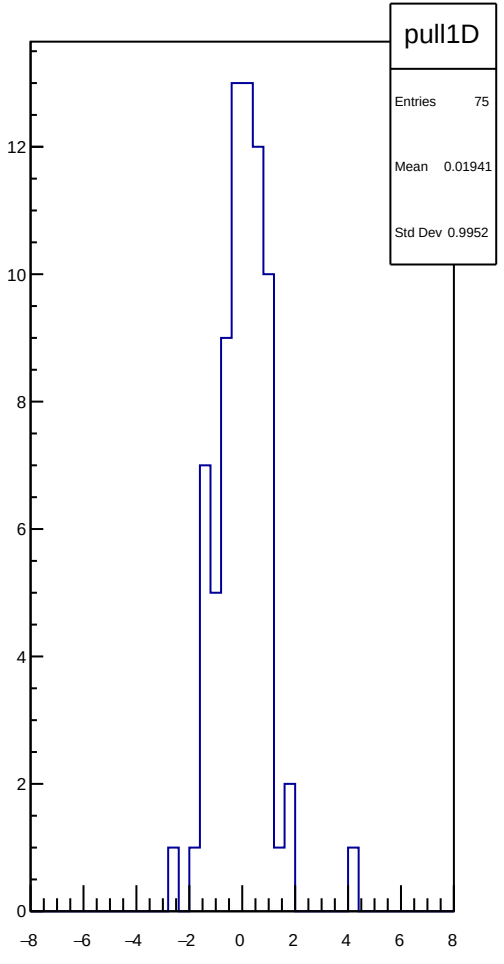

diff_bpm0l03Y_rms vs run
χ² / ndf 6.336e+05 / 74
p0 2582 ± 2.867
80000
70000
60000
50000
40000
30000
20000
10000

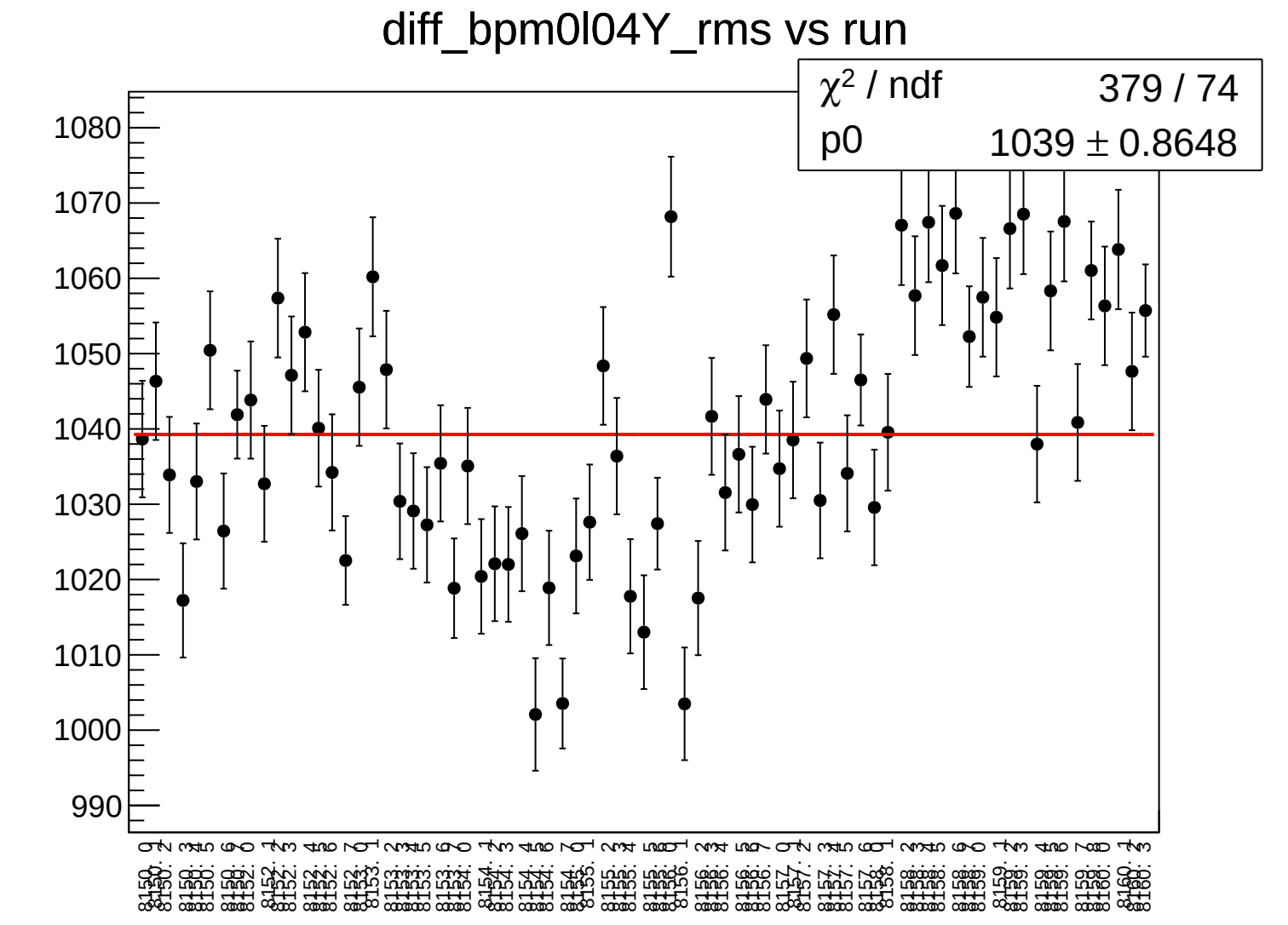

diff_bpm0l04X_mean vs run
χ² / ndf 72.88 / 74
p0 177.8 ± 4.535
pull
Entries 75
Mean −10.4
Std Dev 68.5

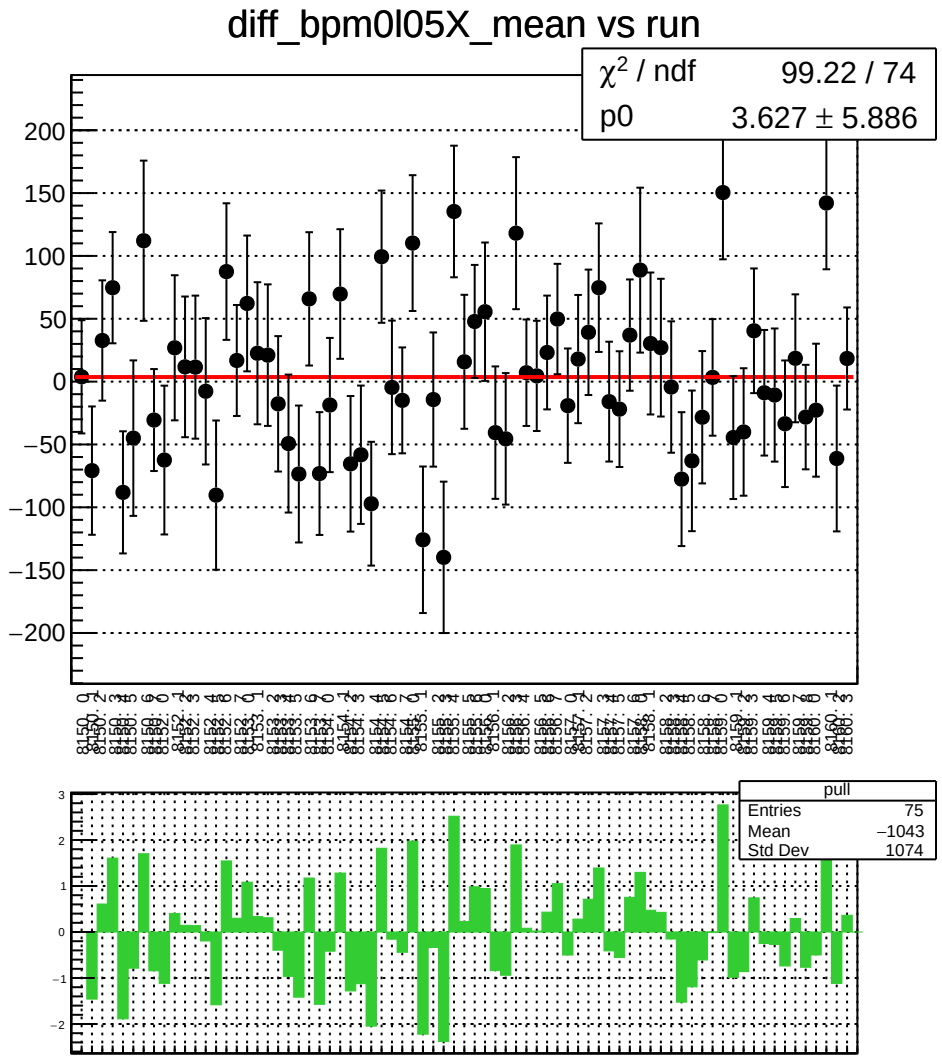

pull1D
Entries 75
Mean 0.01271
Std Dev 0.9857

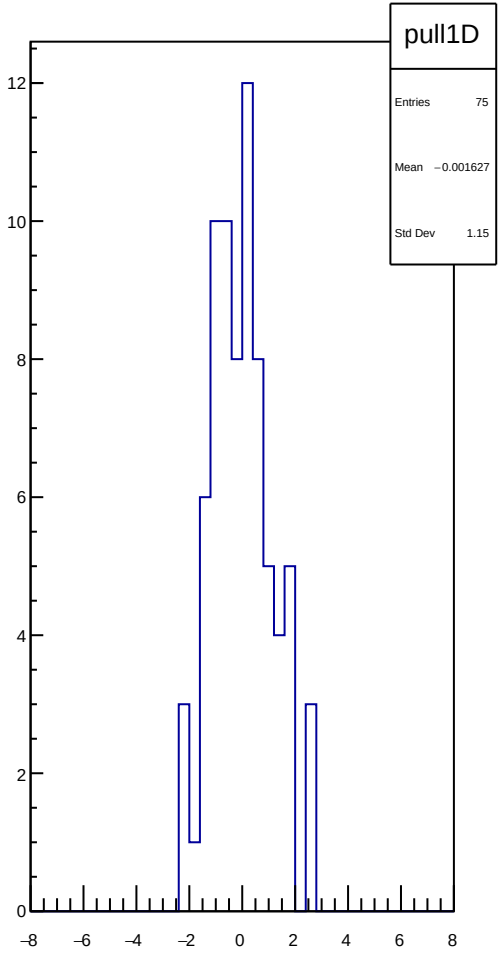

diff_bpm0l04X_rms vs run
χ² / ndf 246.5 / 74
p0 3854 ± 3.207
4000
3950
3900
3850
3800
3750
3700

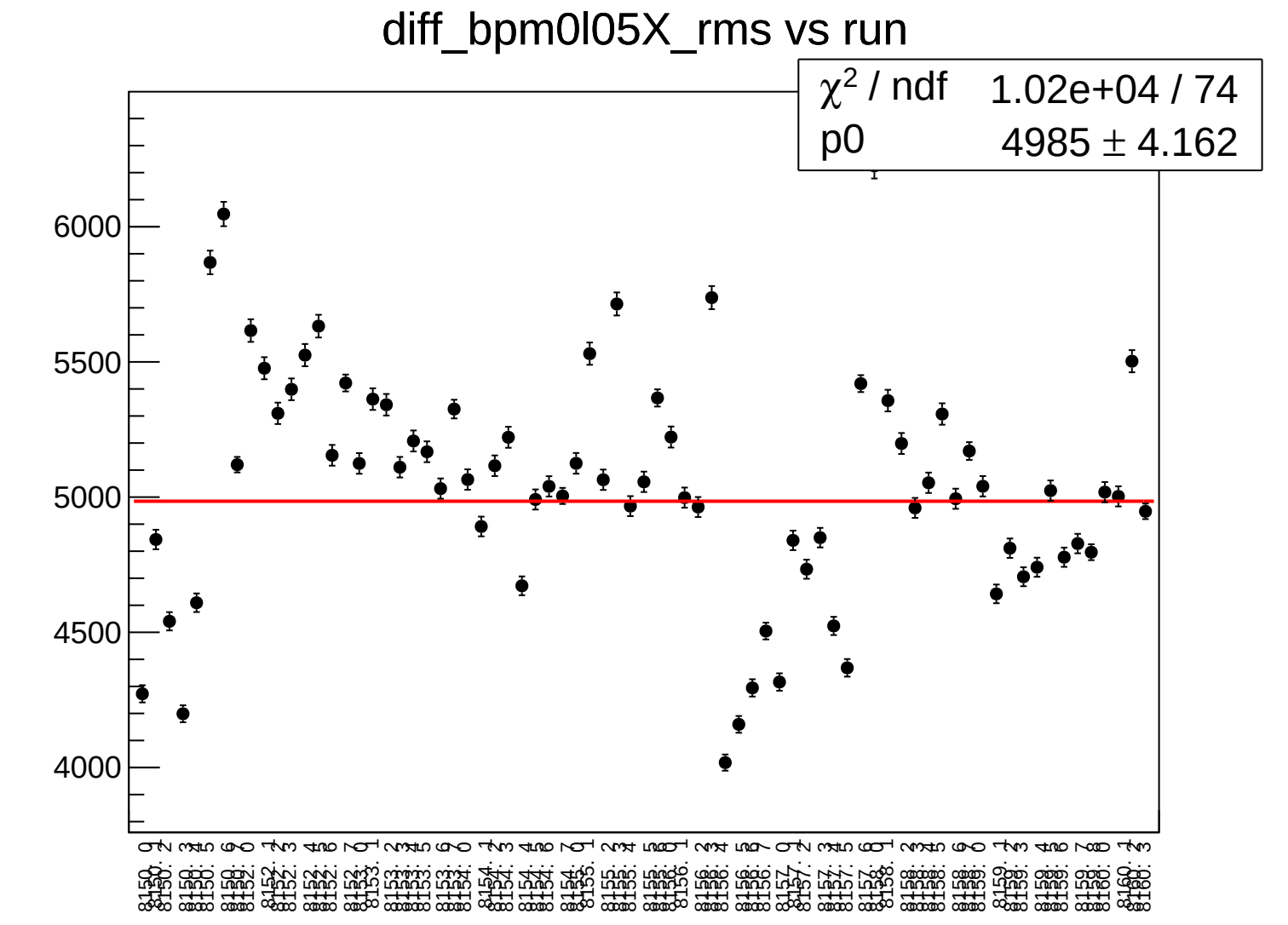

diff_bpm0l04Y_mean vs run
χ² / ndf 74.3 / 74
p0 −57.63 ± 1.223
pull
Entries 75
Mean 345.4
Std Dev 314.7

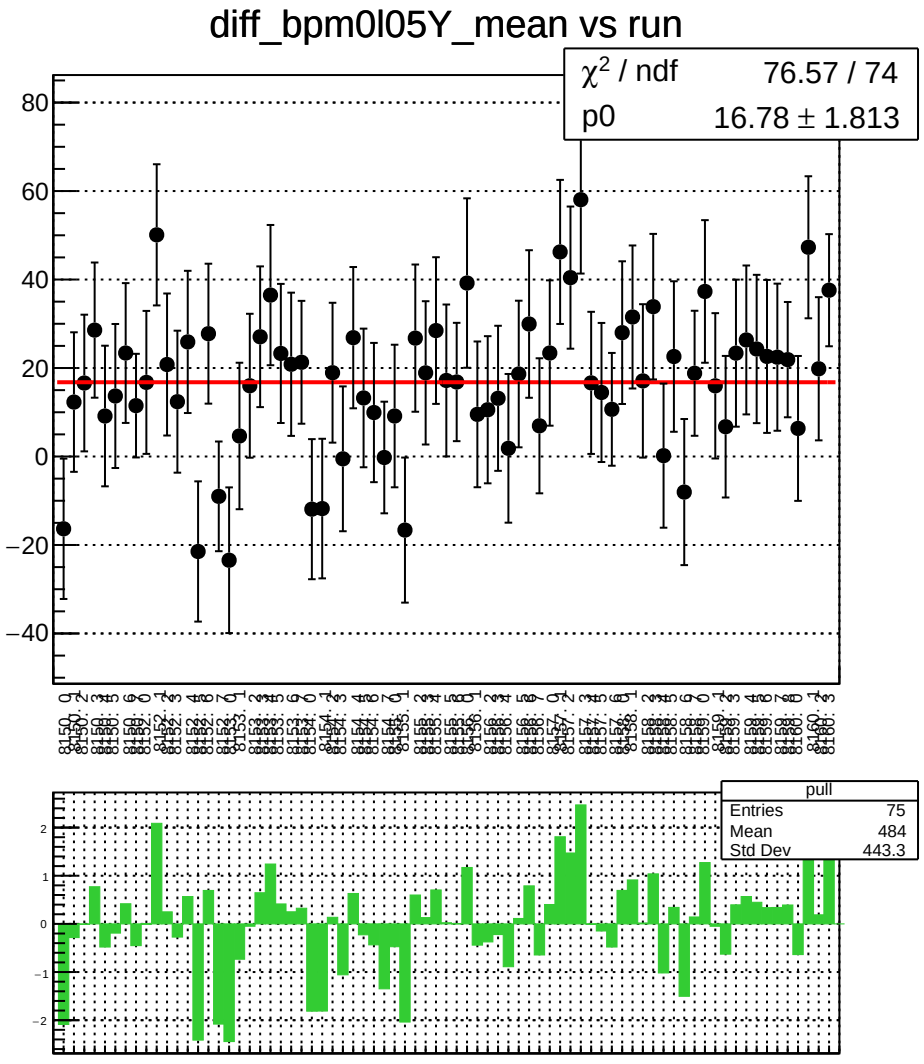

pull1D
Entries 75
Mean 0.01941
Std Dev 0.9952

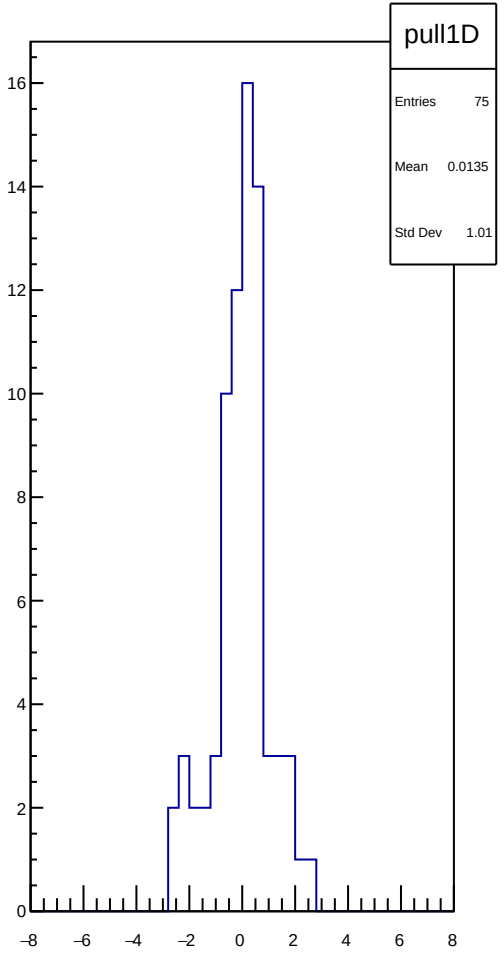

diff_bpm0l04Y_rms vs run
χ² / ndf 379 / 74
p0 1039 ± 0.8648
1080
1070
1060
1050
1040
1030
1020
1010
1000
990

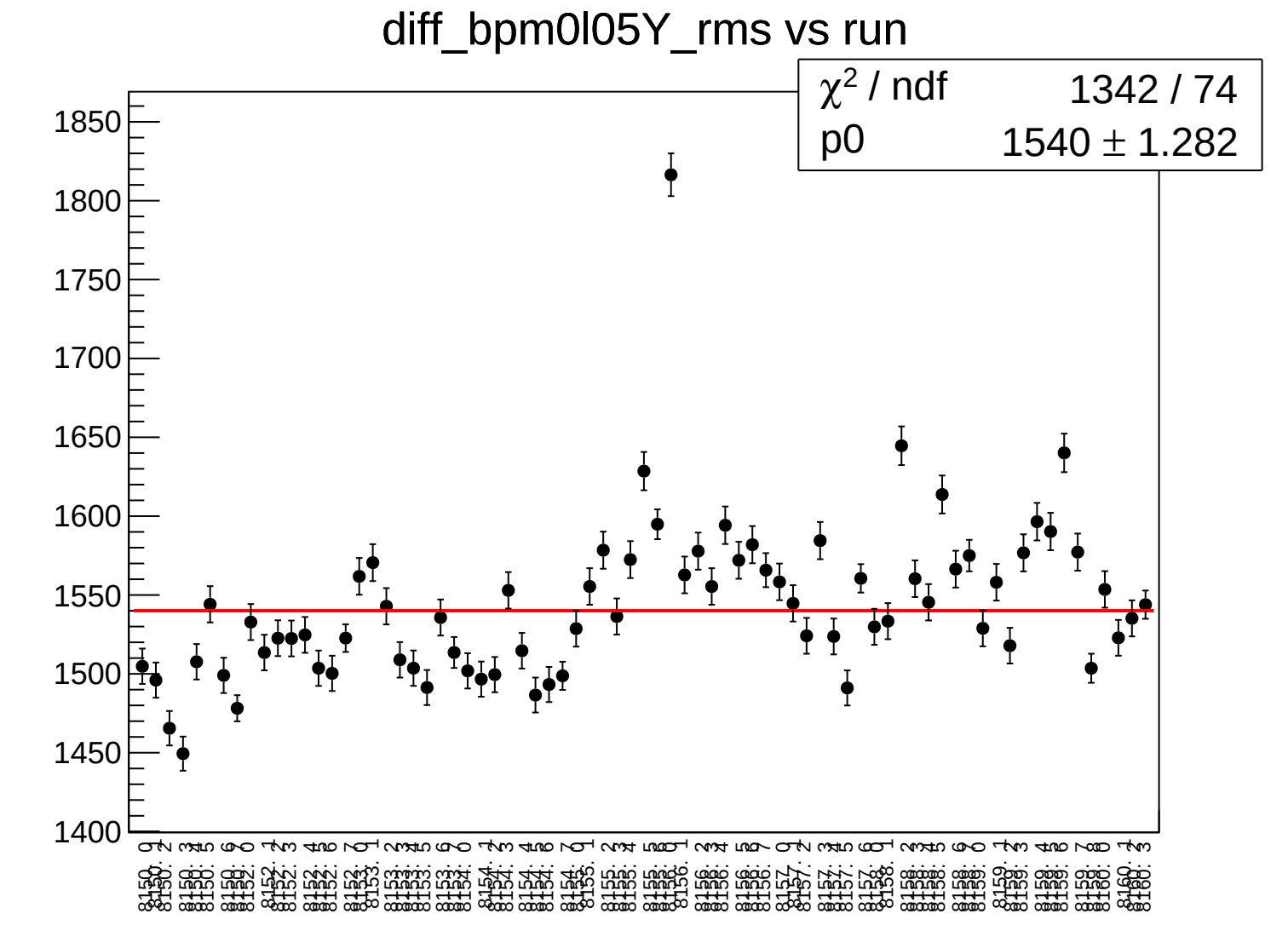

diff_bpm0l05X_mean vs run
χ² / ndf 99.22 / 74
p0 3.627 ± 5.886
pull
Entries 75
Mean −1043
Std Dev 1074

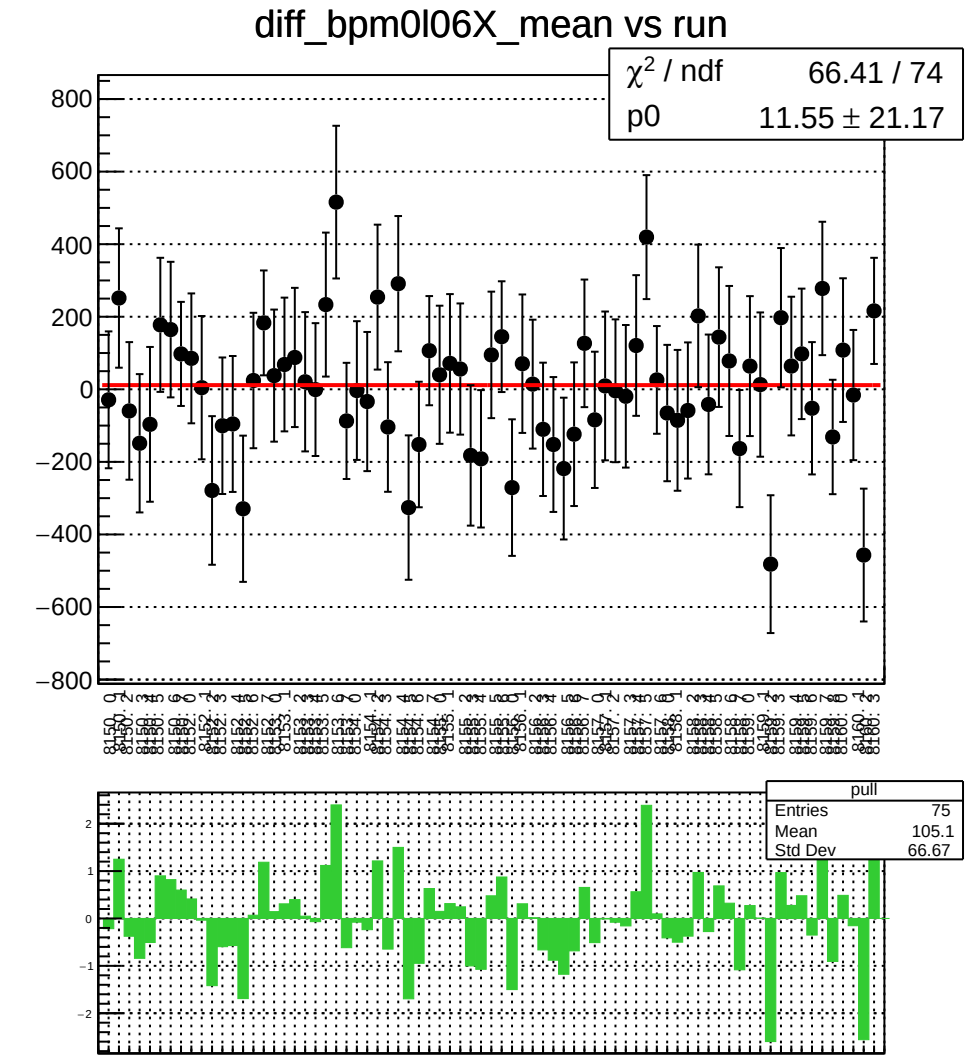

pull1D
Entries 75
Mean −0.001627
Std Dev 1.15

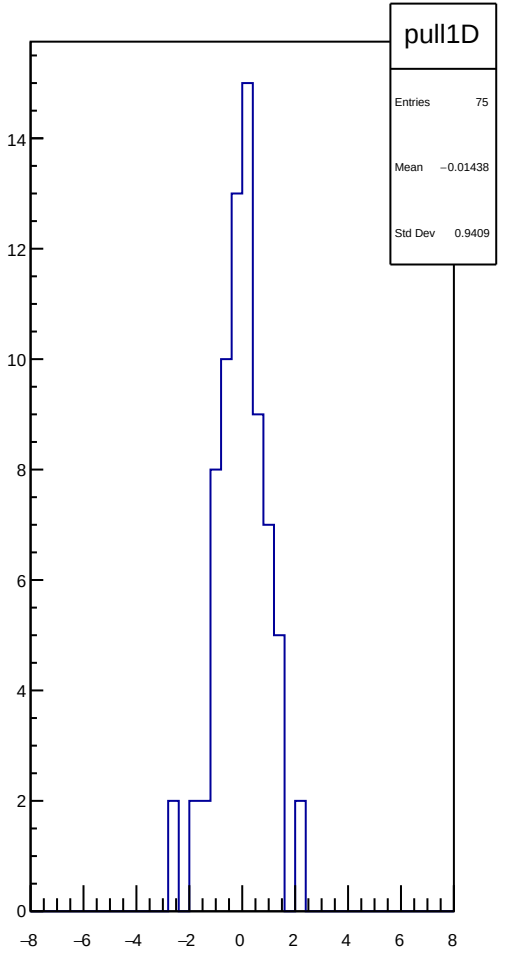

diff_bpm0l05X_rms vs run
χ² / ndf 1.02e+04 / 74
p0 4985 ± 4.162
6000
5500
5000
4500
4000


diff_bpm0l05Y_mean vs run
χ² / ndf 76.57 / 74
p0 16.78 ± 1.813
pull
Entries 75
Mean 484
Std Dev 443.3

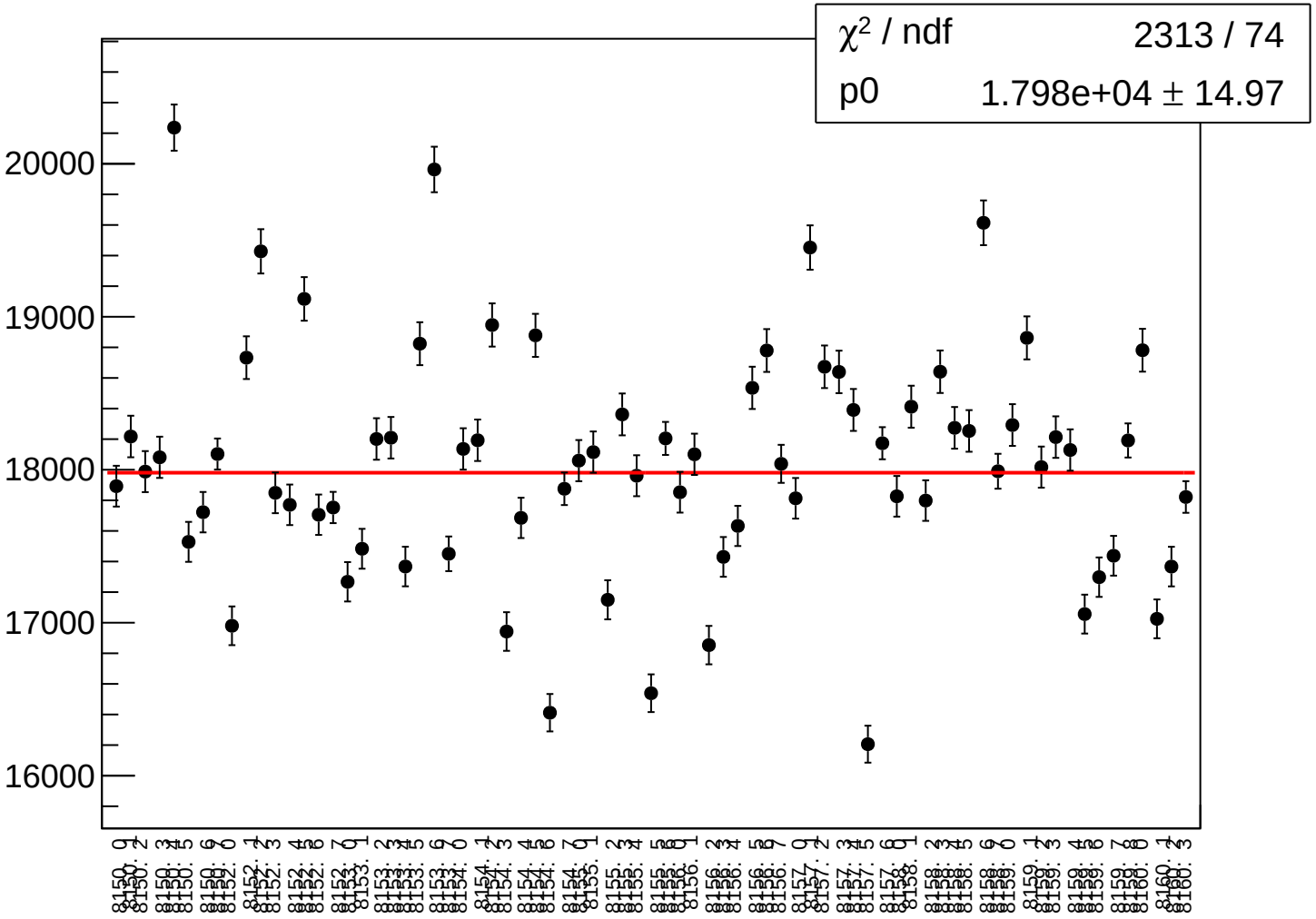

pull1D
Entries 75
Mean 0.0135
Std Dev 1.01

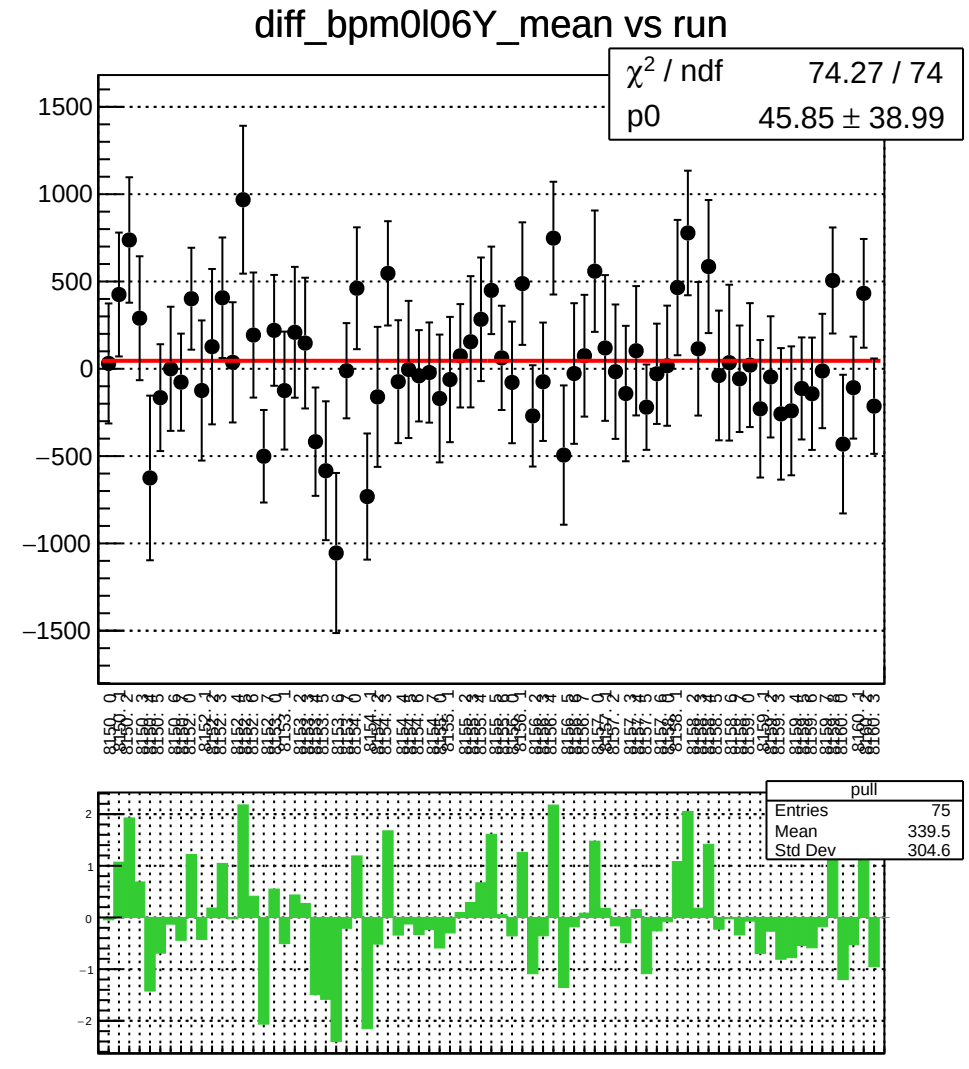

diff_bpm0l05Y_rms vs run
χ² / ndf 1342 / 74
p0 1540 ± 1.282
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

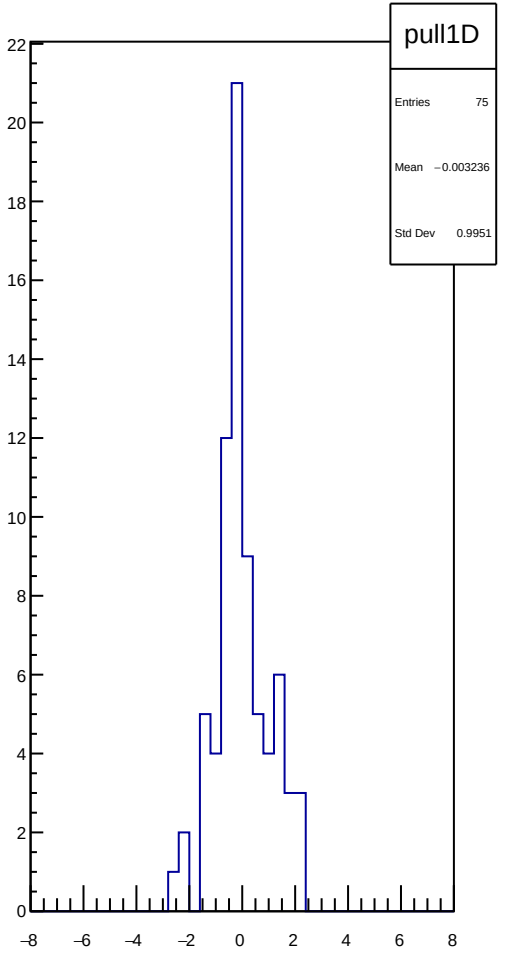

diff_bpm0l06X_mean vs run
χ² / ndf 66.41 / 74
p0 11.55 ± 21.17
pull
Entries 75
Mean 105.1
Std Dev 66.67

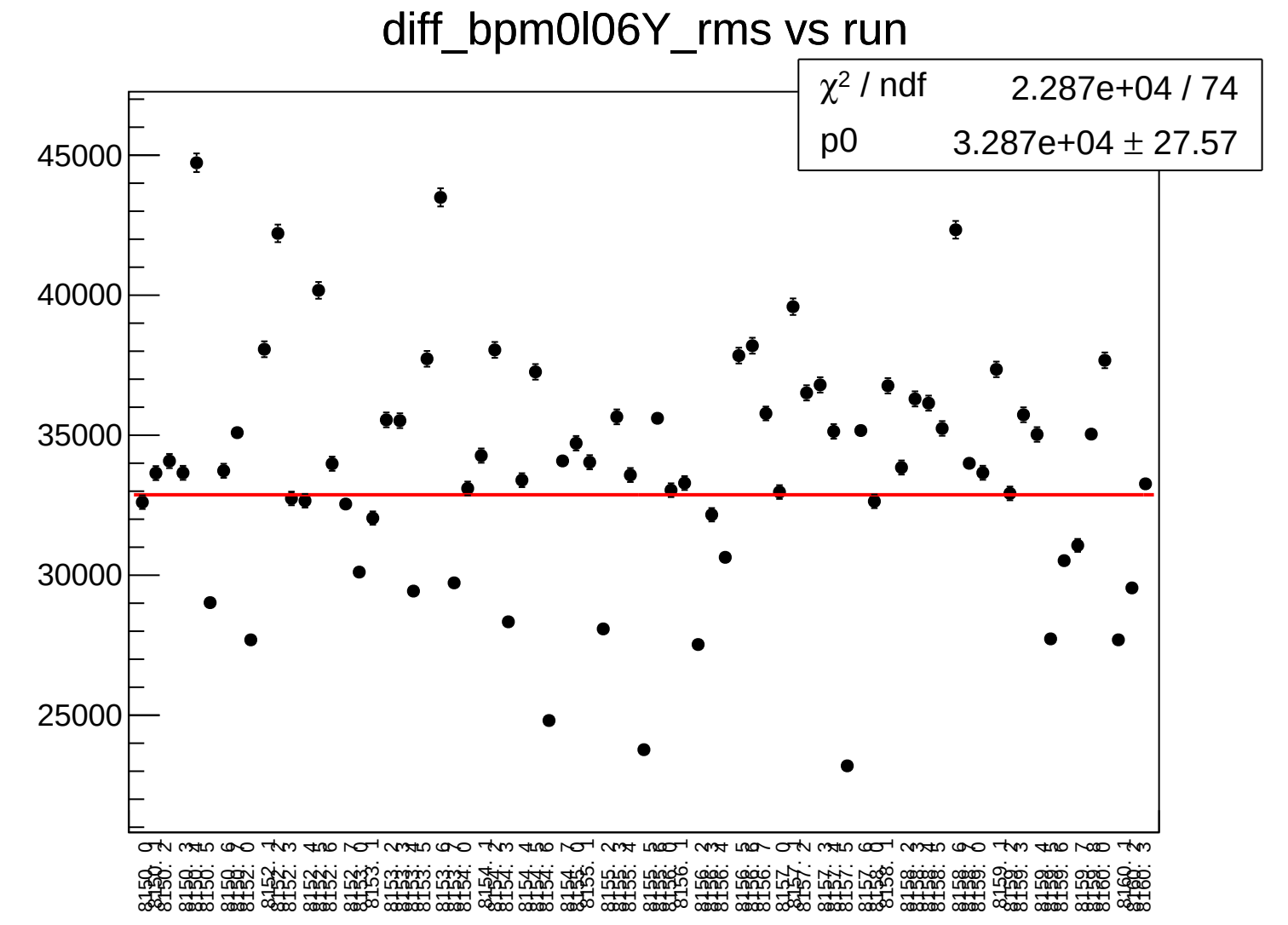

pull1D
Entries 75
Mean −0.01438
Std Dev 0.9409

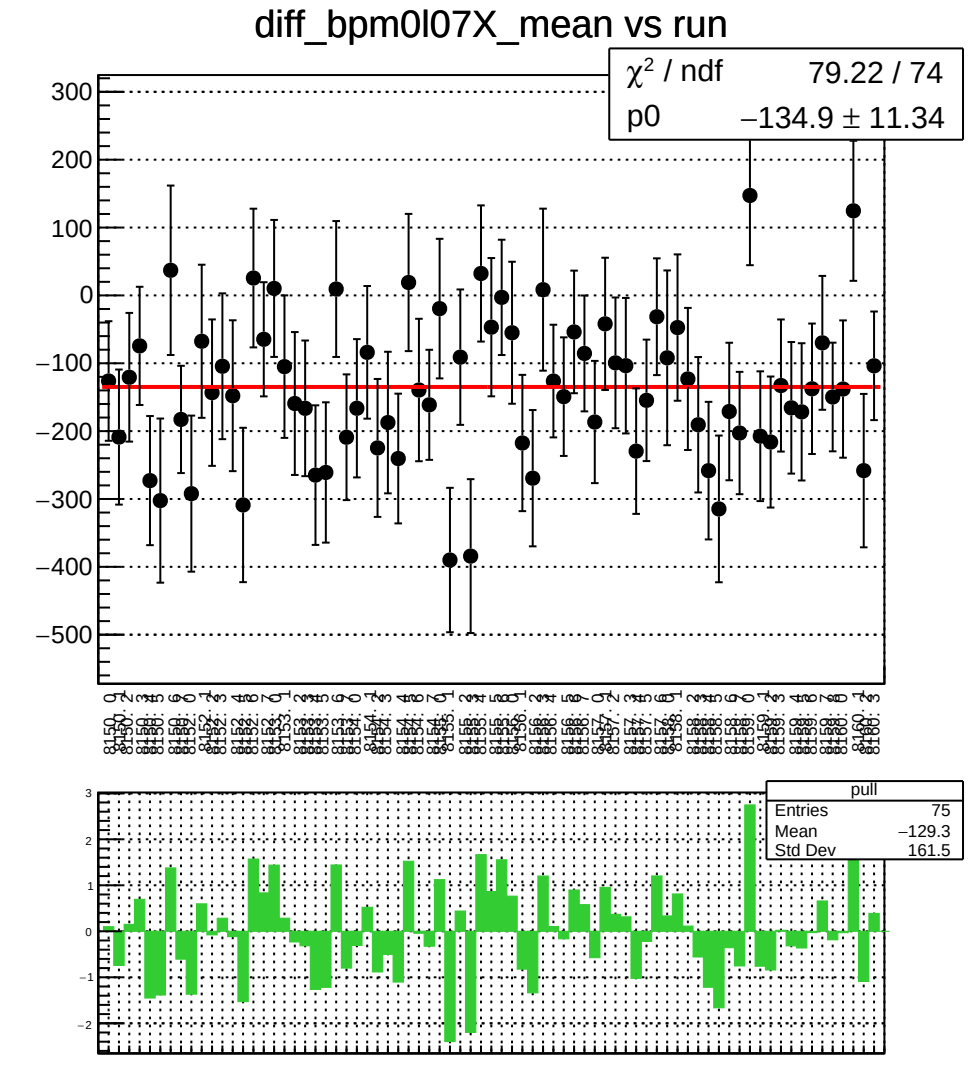
diff_bpm0l06X_rms vs run

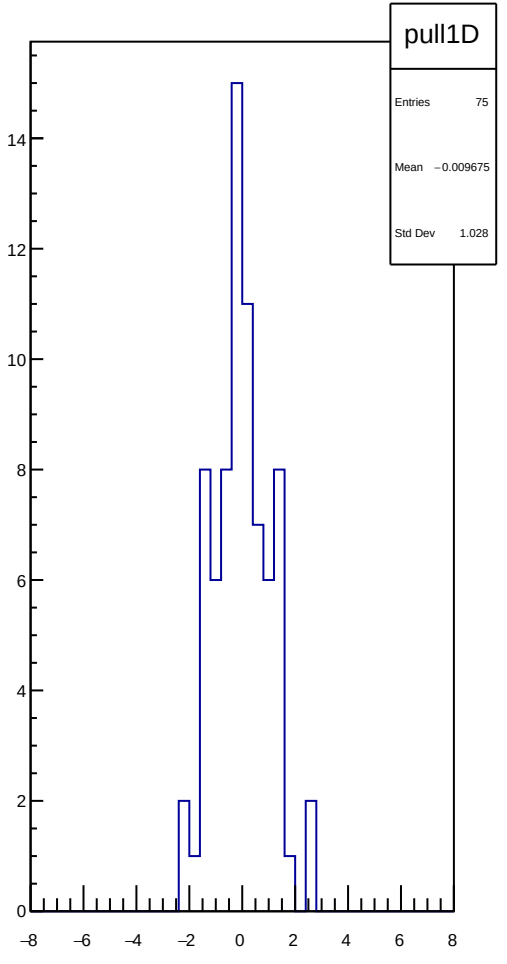


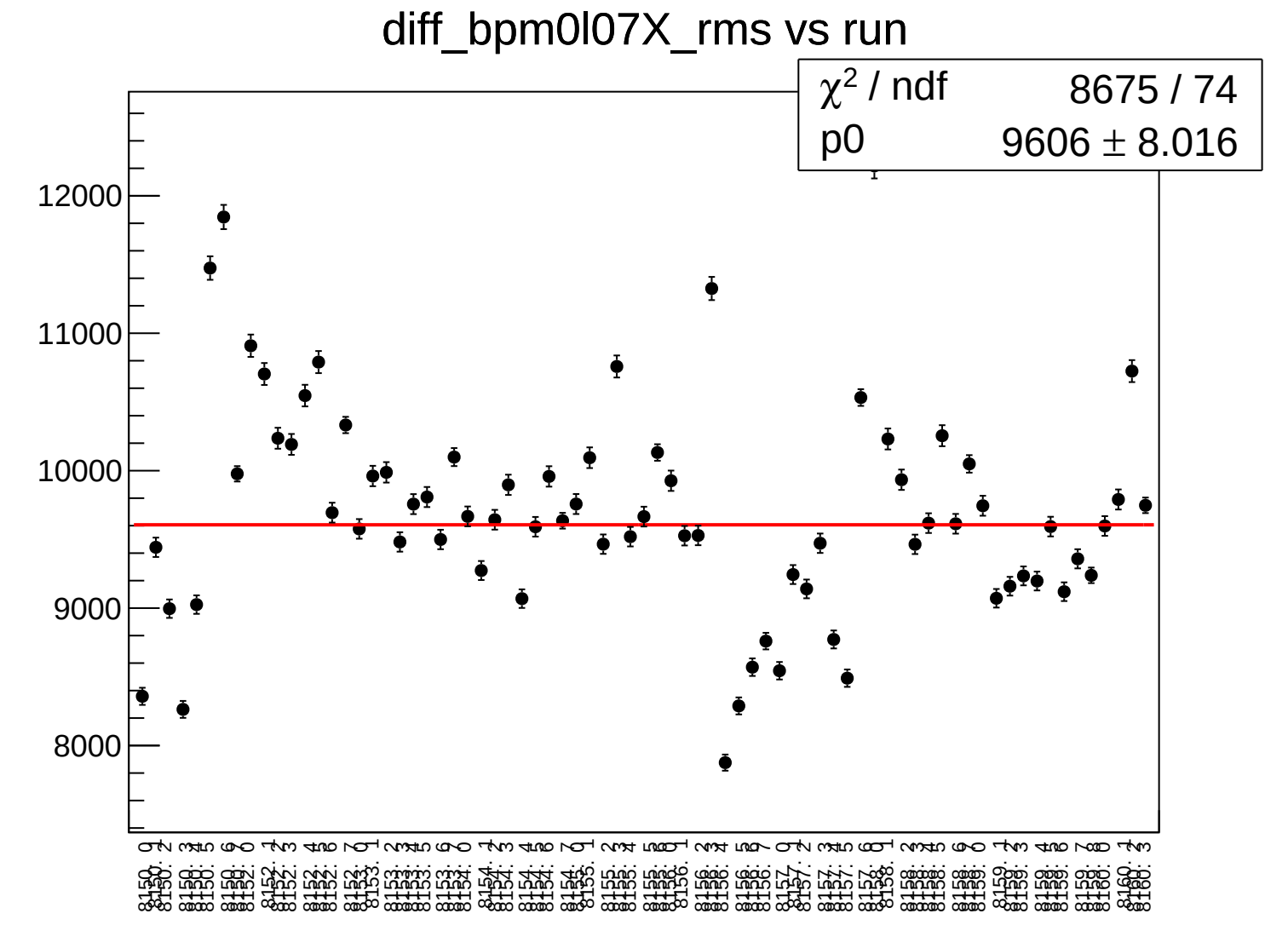

diff_bpm0l06Y_mean vs run
χ² / ndf 74.27 / 74
p0 45.85 ± 38.99
pull
Entries 75
Mean 339.5
Std Dev 304.6

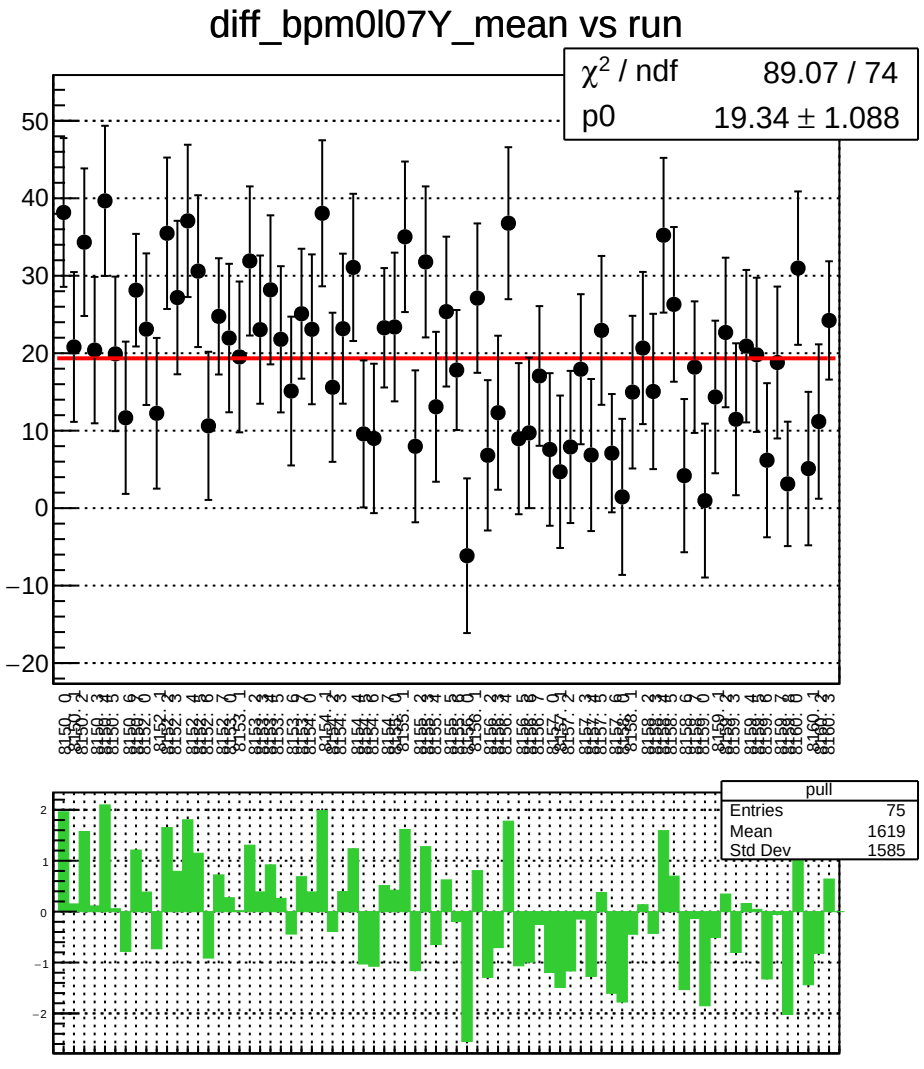

pull1D
Entries 75
Mean −0.003236
Std Dev 0.9951

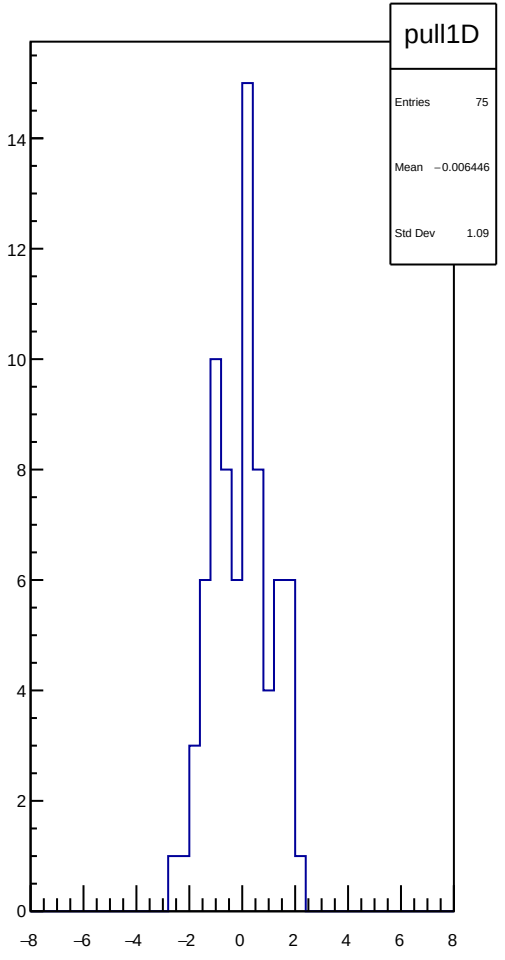

diff_bpm0l06Y_rms vs run
χ² / ndf 2.287e+04 / 74
p0 3.287e+04 ± 27.57
45000
40000
35000
30000
25000

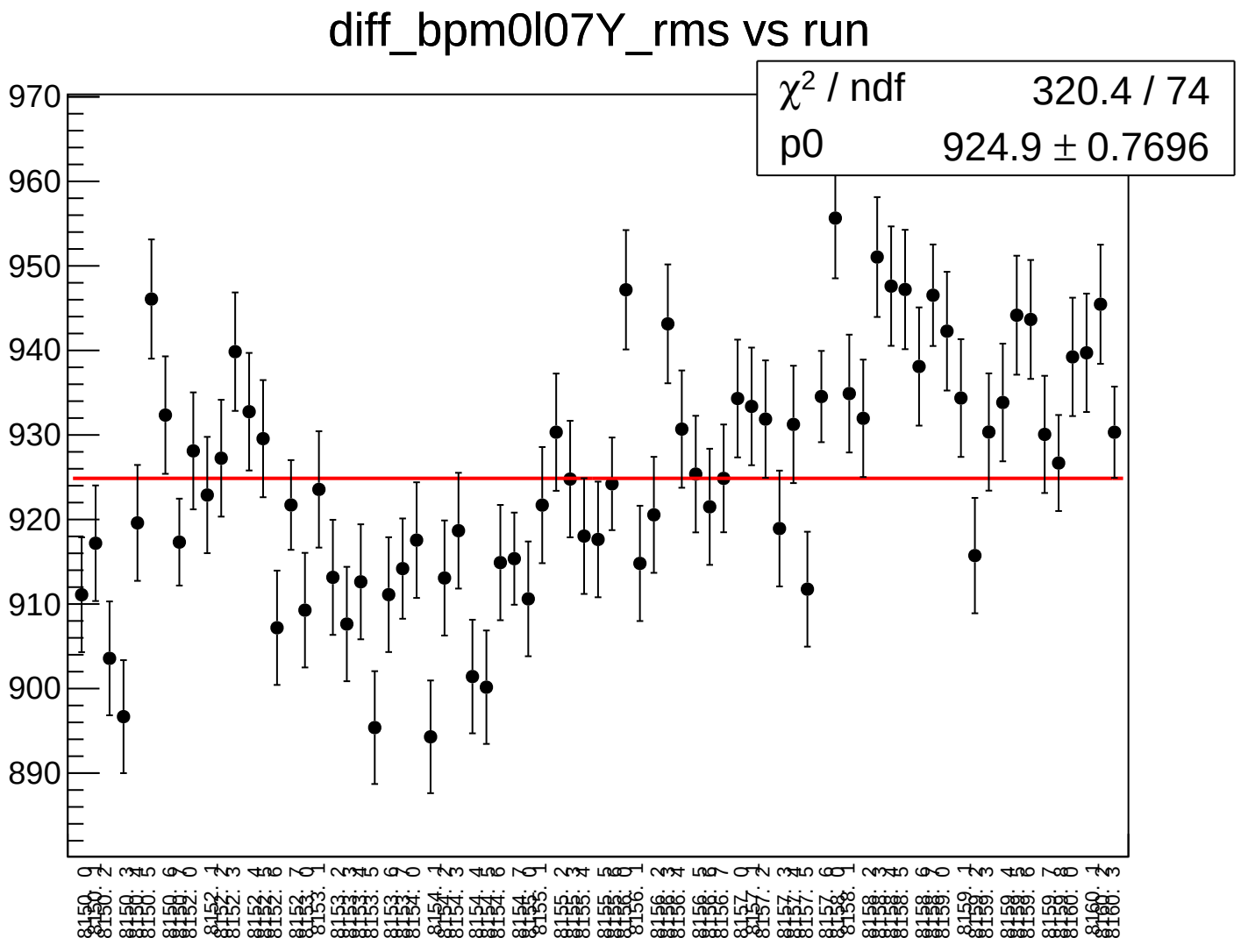

diff_bpm0l07X_mean vs run
χ² / ndf 79.22 / 74
p0 −134.9 ± 11.34
pull
Entries 75
Mean −129.3
Std Dev 161.5

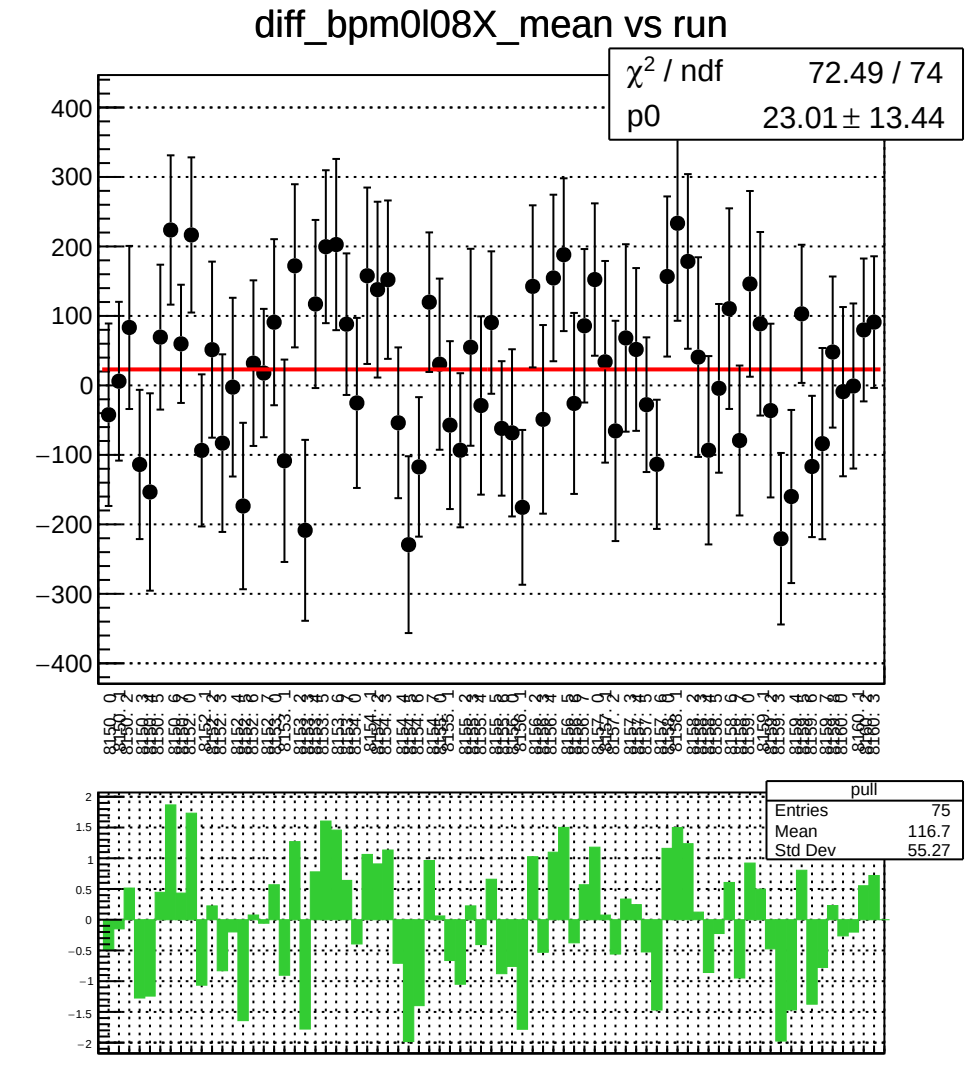

pull1D
Entries 75
Mean −0.009675
Std Dev 1.028

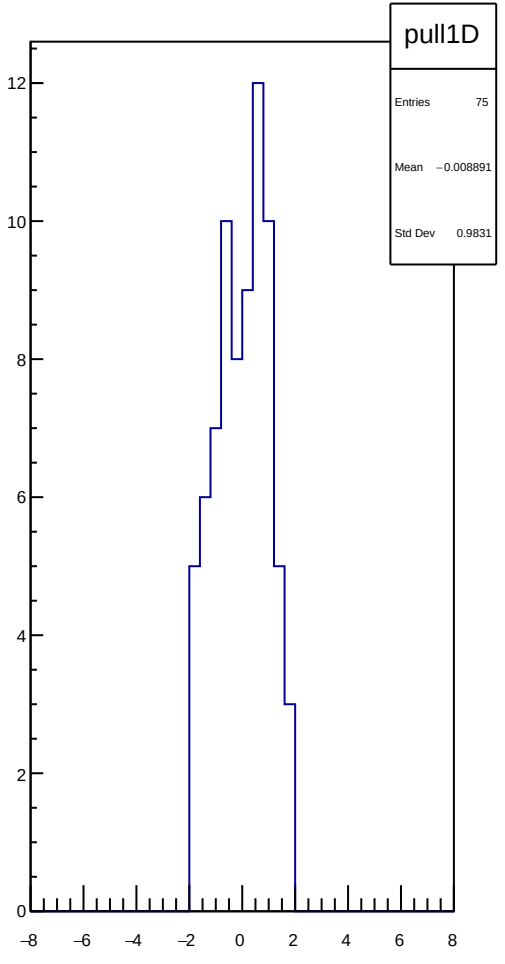

diff_bpm0l07X_rms vs run
χ² / ndf 8675 / 74
p0 9606 ± 8.016
12000
11000
10000
9000
8000


diff_bpm0l07Y_mean vs run
χ² / ndf 89.07 / 74
p0 19.34 ± 1.088
pull
Entries 75
Mean 1619
Std Dev 1585

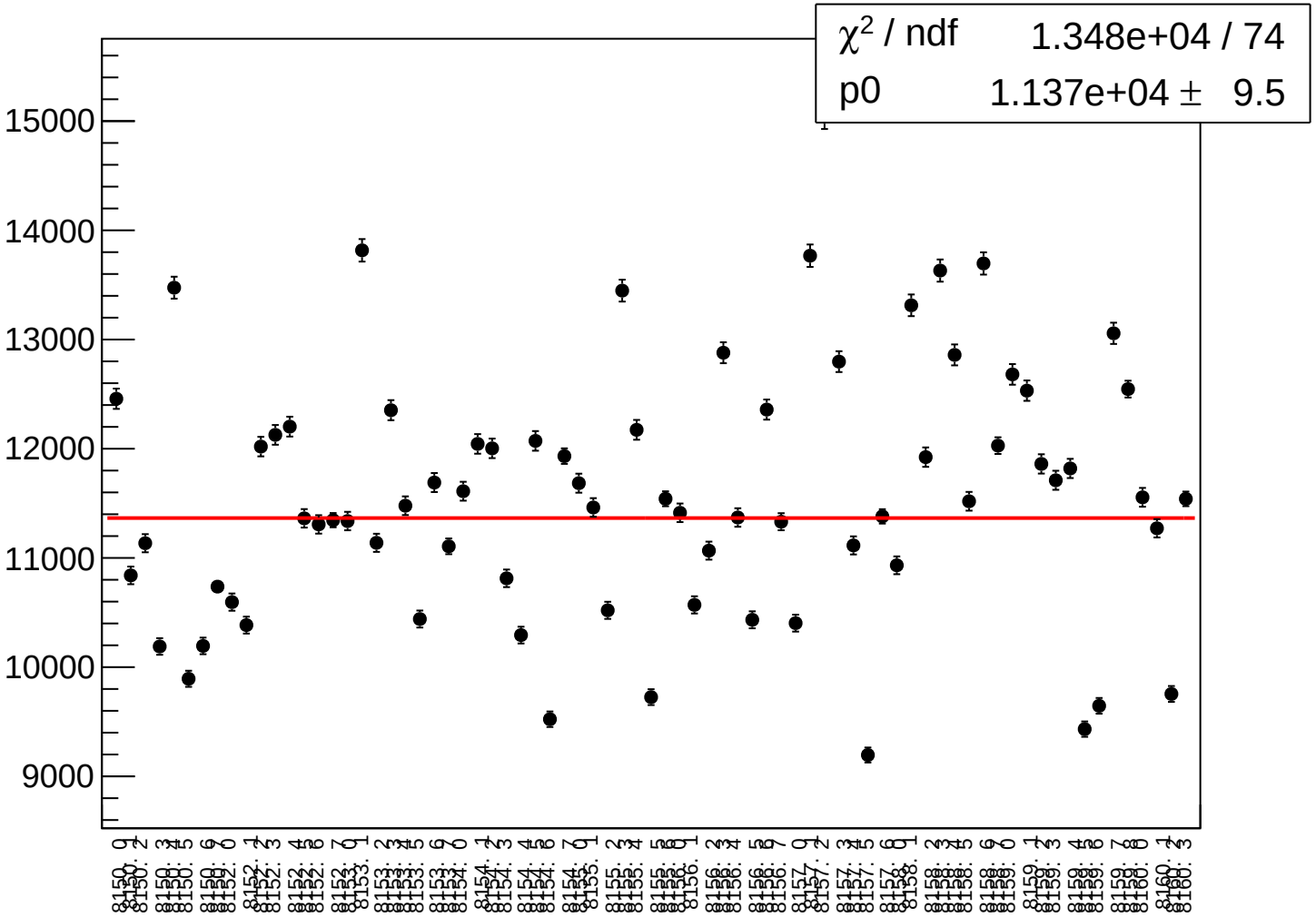

pull1D
Entries 75
Mean −0.006446
Std Dev 1.09

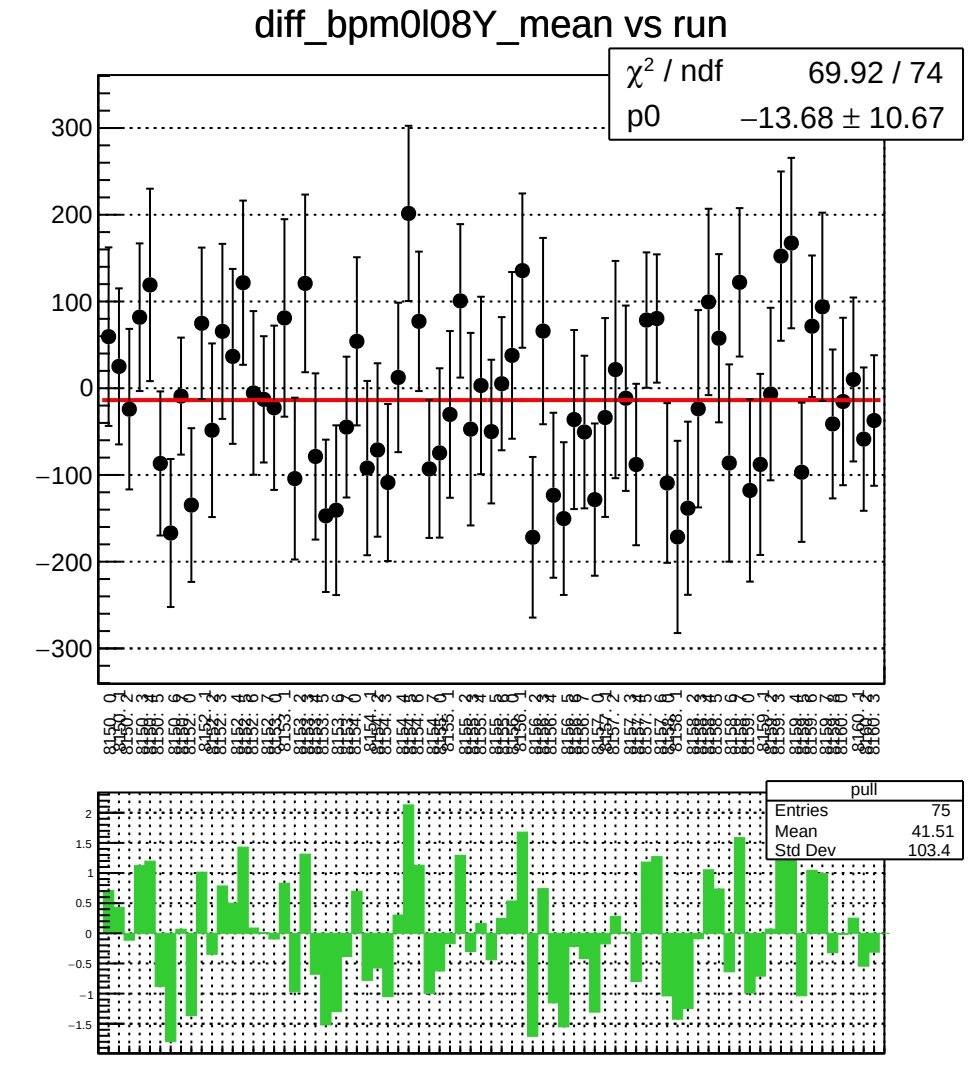

diff_bpm0l07Y_rms vs run
χ² / ndf 320.4 / 74
p0 924.9 ± 0.7696
970
960
950
940
930
920
910
900
890

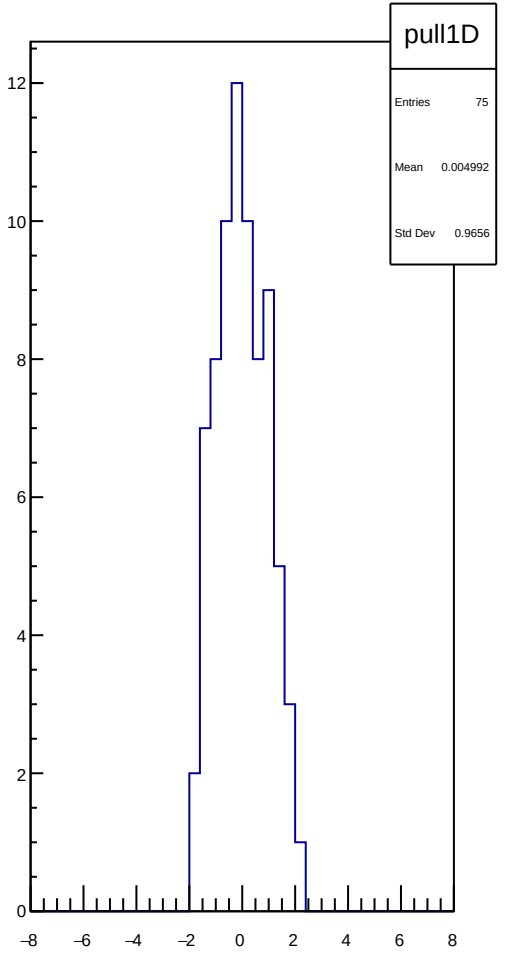

diff_bpm0l08X_mean vs run
χ² / ndf 72.49 / 74
p0 23.01 ± 13.44
pull
Entries 75
Mean 116.7
Std Dev 55.27

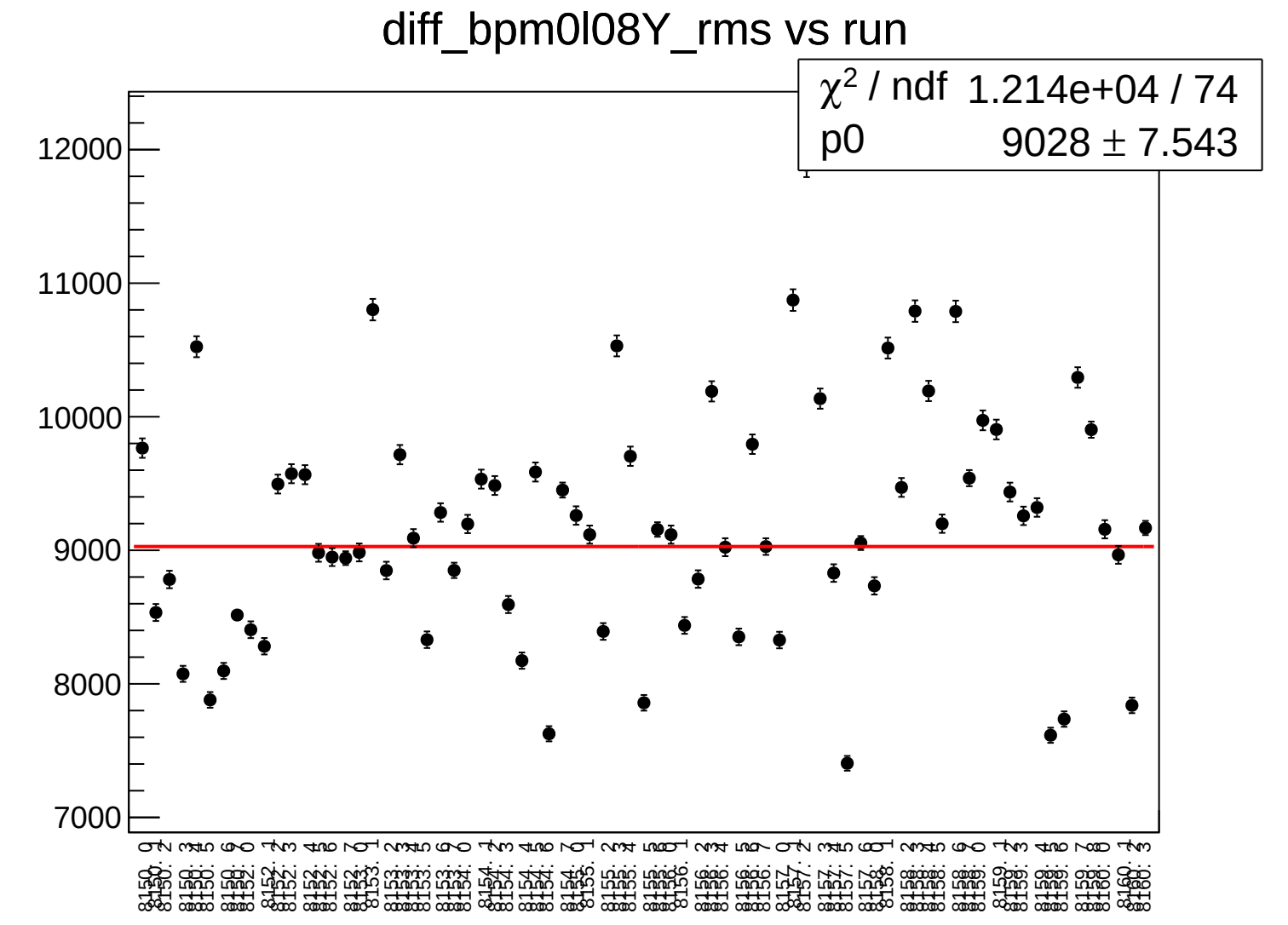

pull1D
Entries 75
Mean −0.008891
Std Dev 0.9831

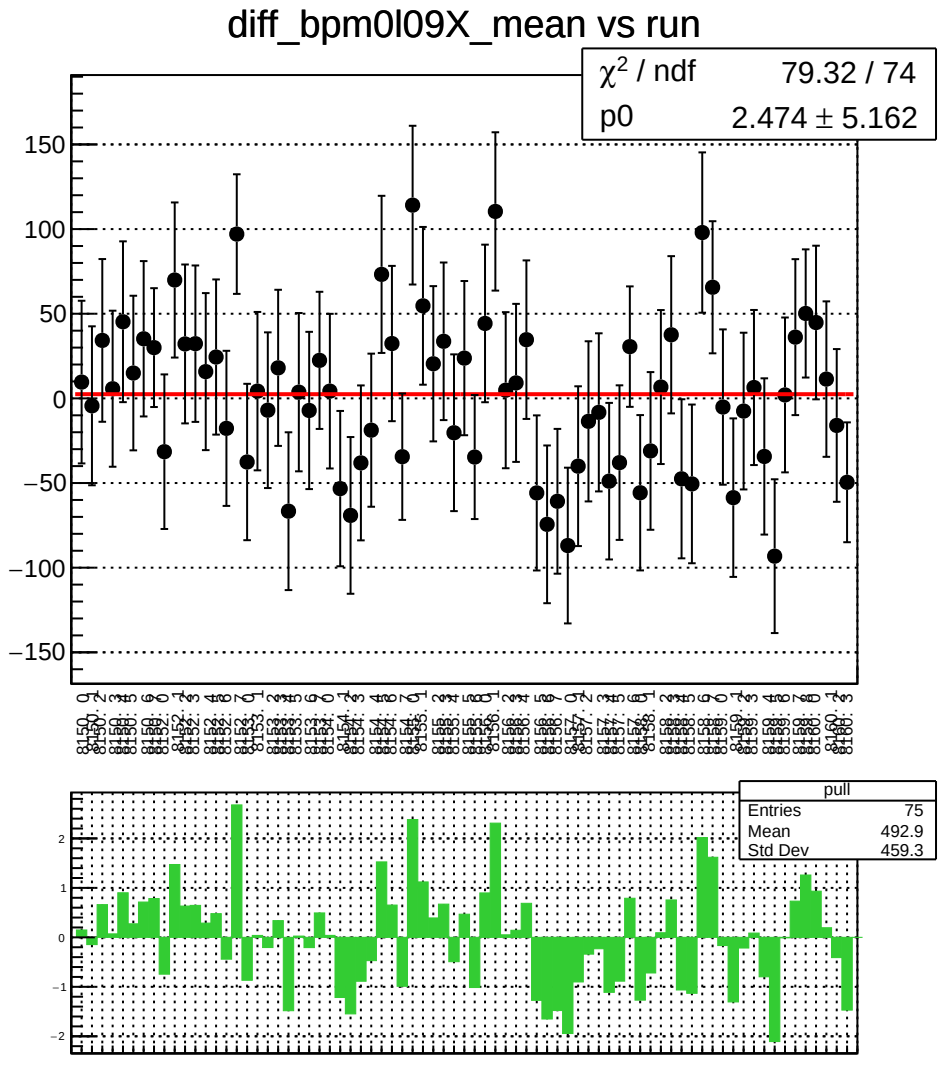
diff_bpm0l08X_rms vs run

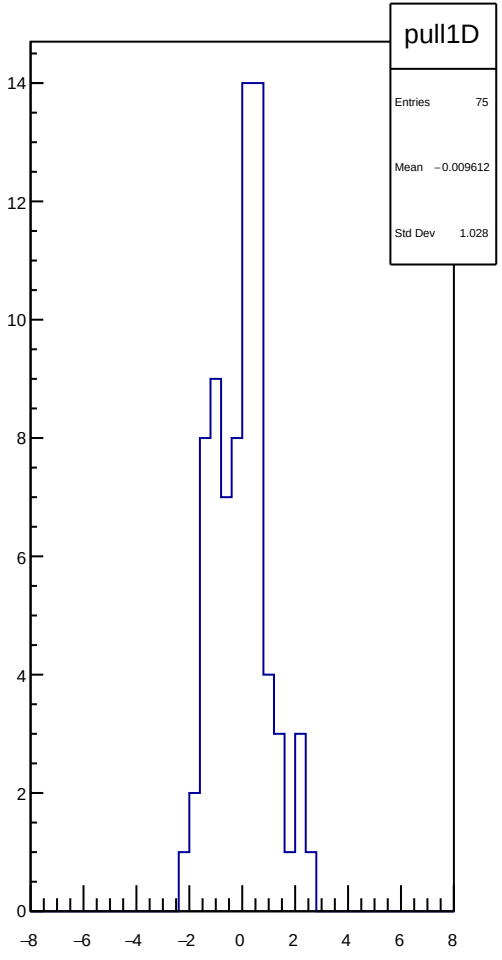


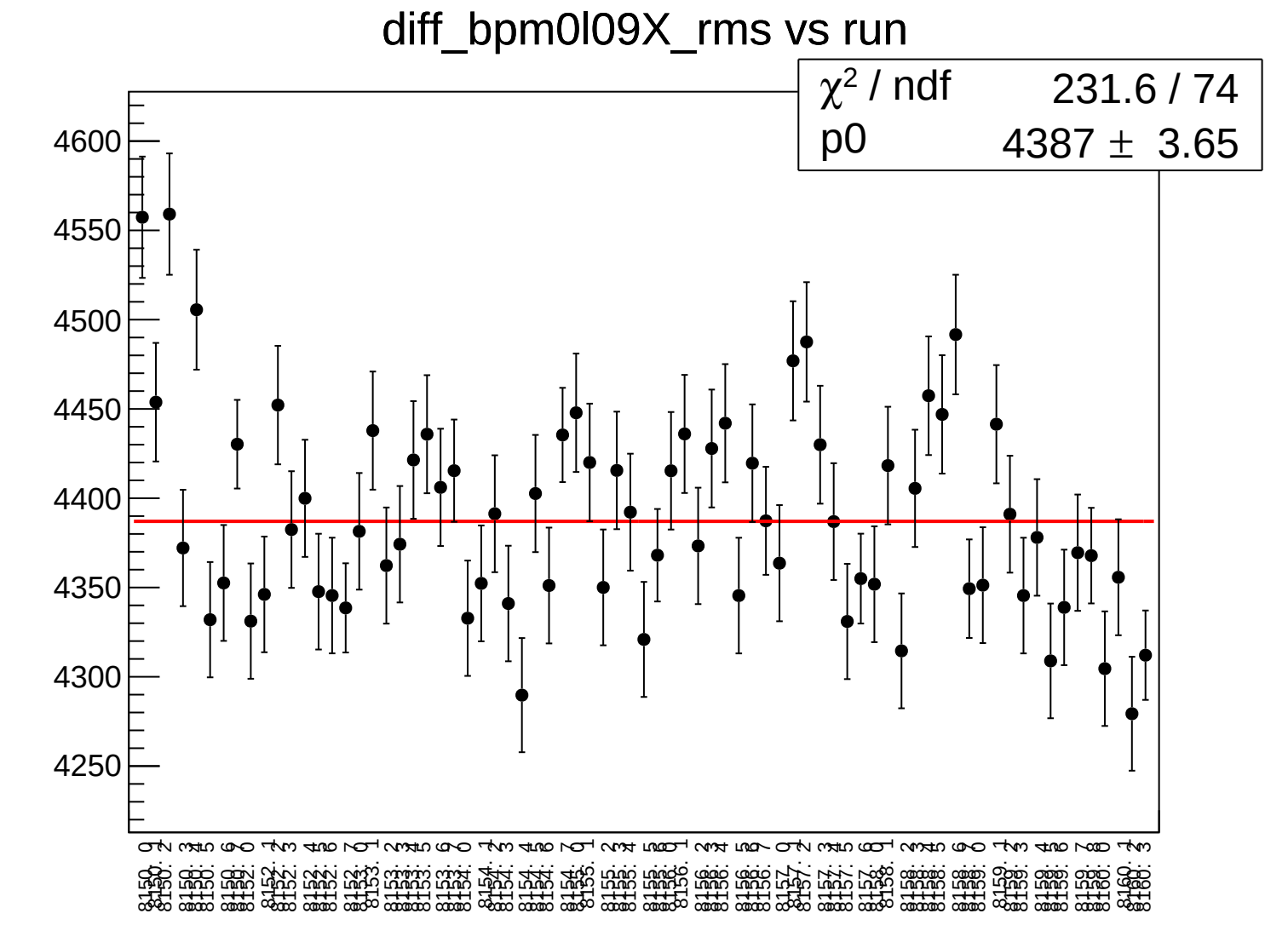

diff_bpm0l08Y_mean vs run
χ² / ndf 69.92 / 74
p0 −13.68 ± 10.67
pull
Entries 75
Mean 41.51
Std Dev 103.4

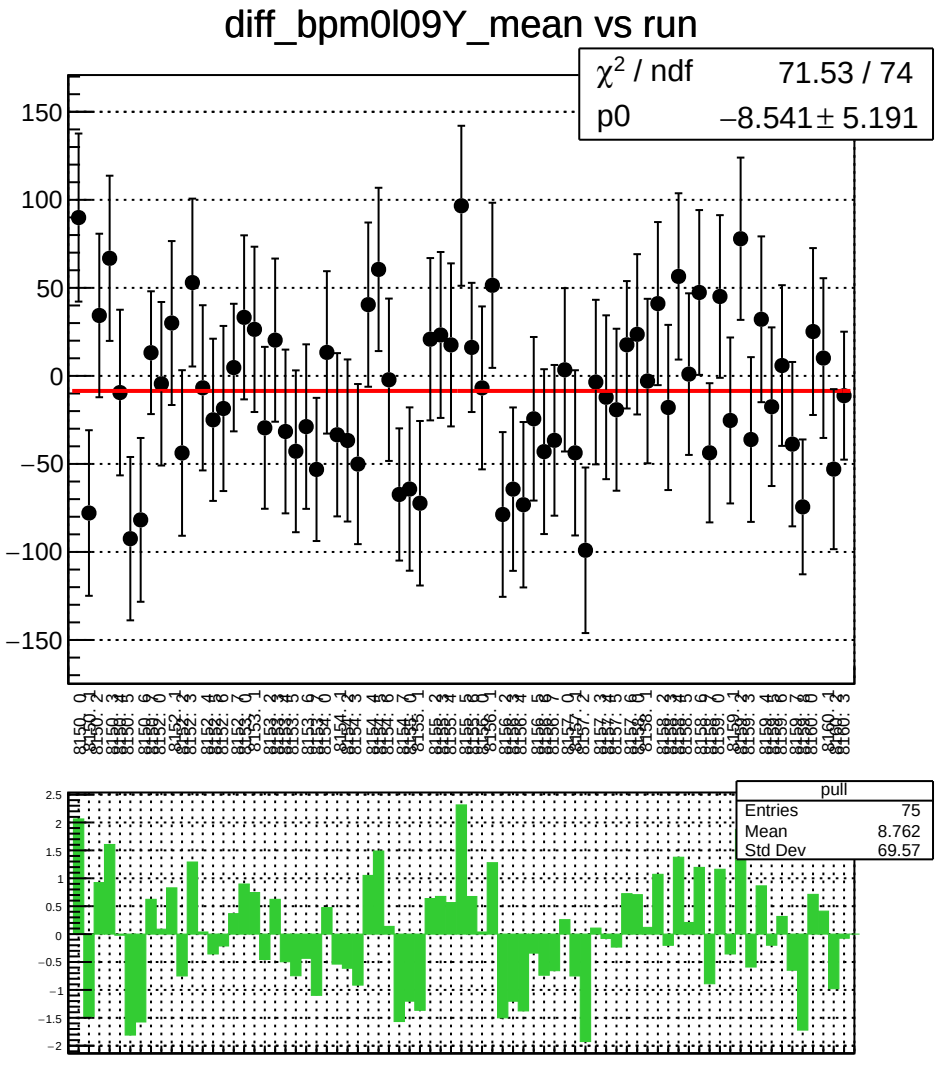

pull1D
Entries 75
Mean 0.004992
Std Dev 0.9656

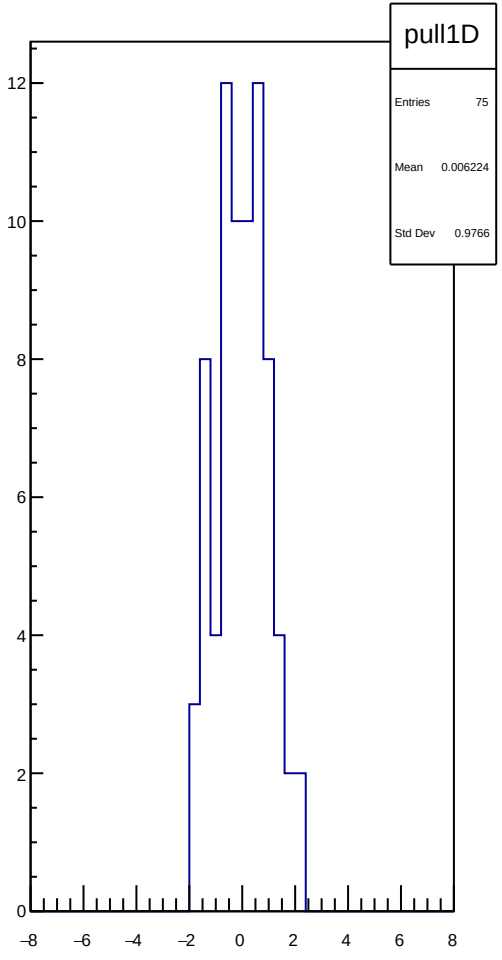

diff_bpm0l08Y_rms vs run
χ² / ndf 1.214e+04 / 74
p0 9028 ± 7.543
12000
11000
10000
9000
8000
7000

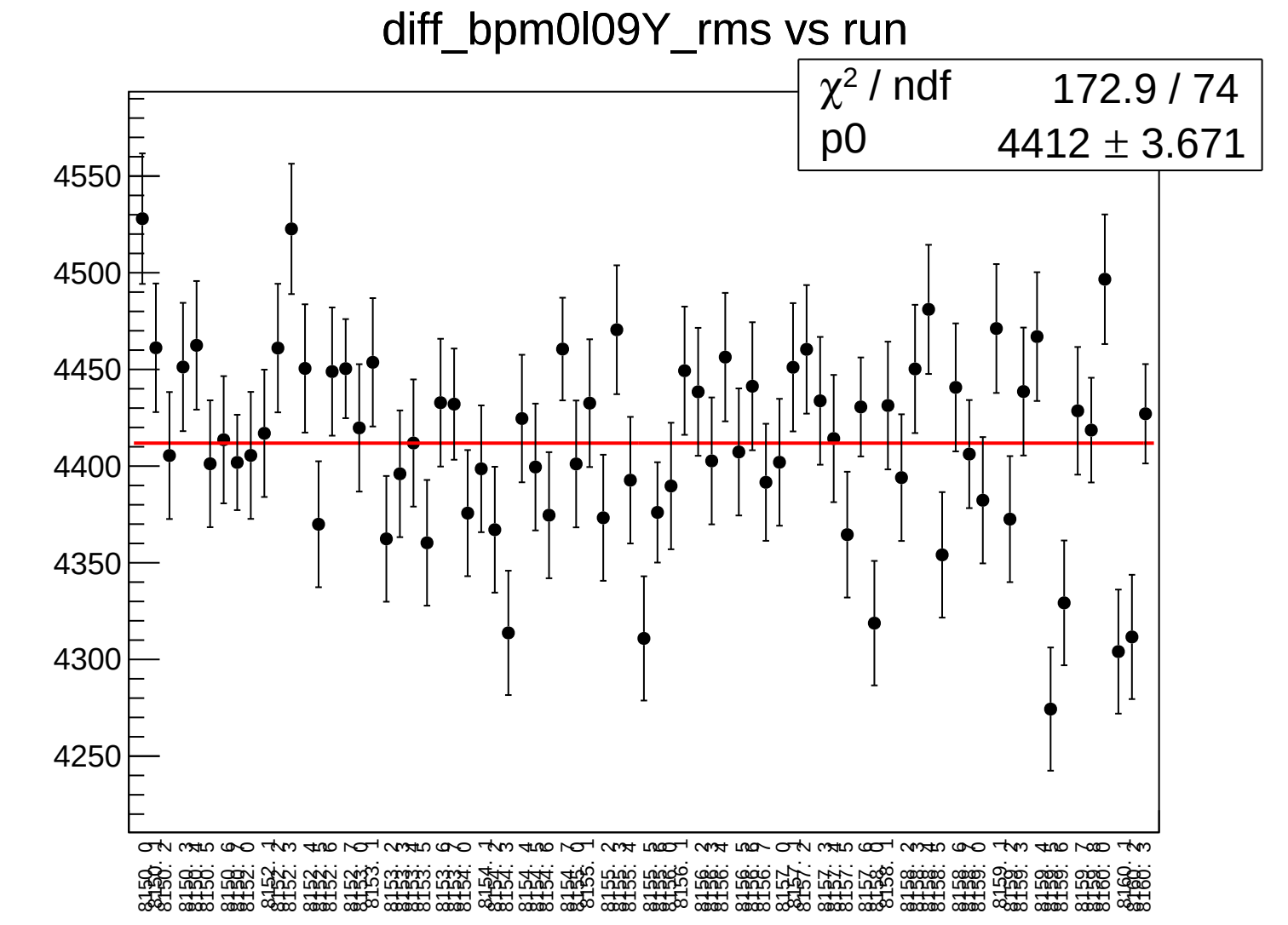

diff_bpm0l09X_mean vs run
χ² / ndf 79.32 / 74
p0 2.474 ± 5.162
pull
Entries 75
Mean 492.9
Std Dev 459.3

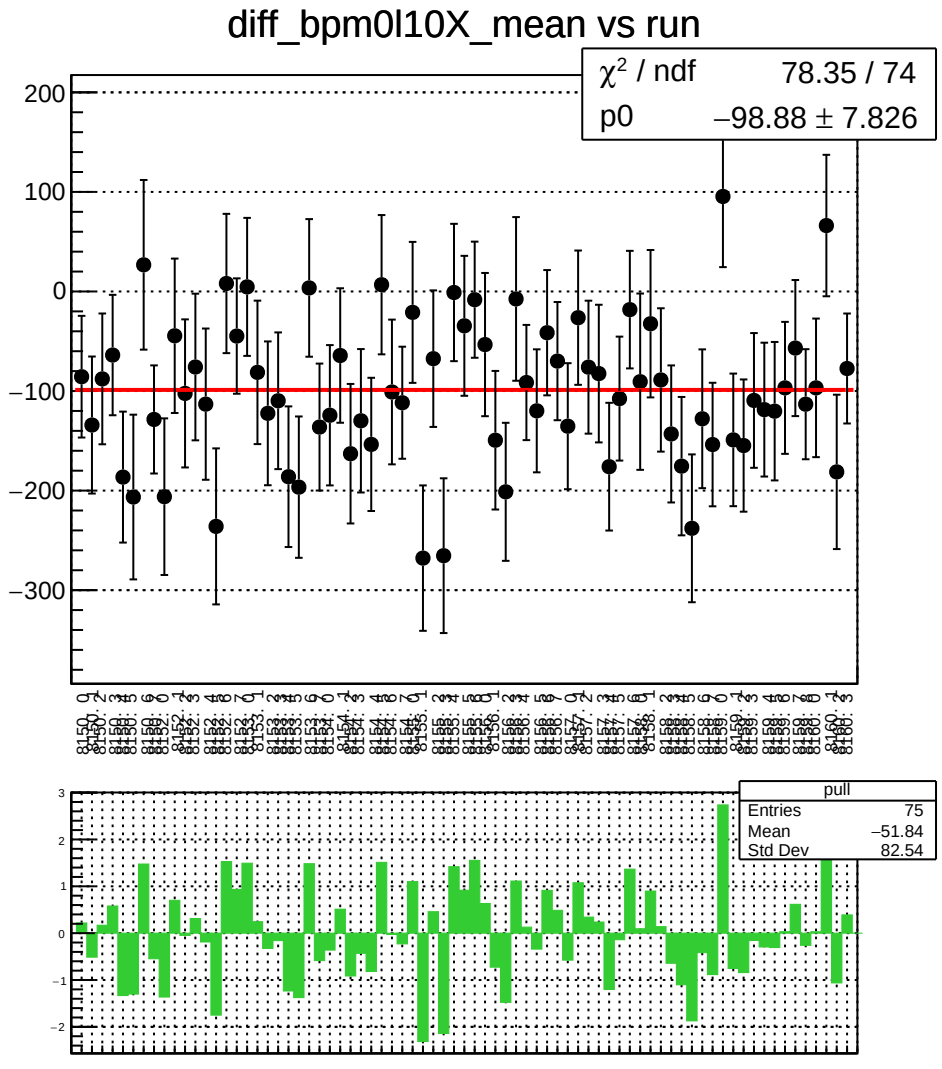

pull1D
Entries 75
Mean −0.009612
Std Dev 1.028

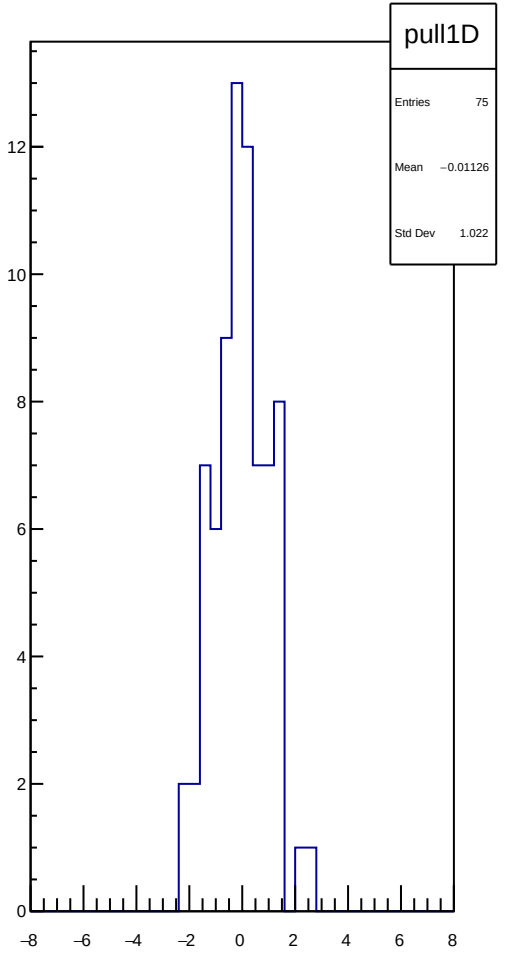

diff_bpm0l09X_rms vs run
χ² / ndf 231.6 / 74
p0 4387 ± 3.65
4600
4550
4500
4450
4400
4350
4300
4250

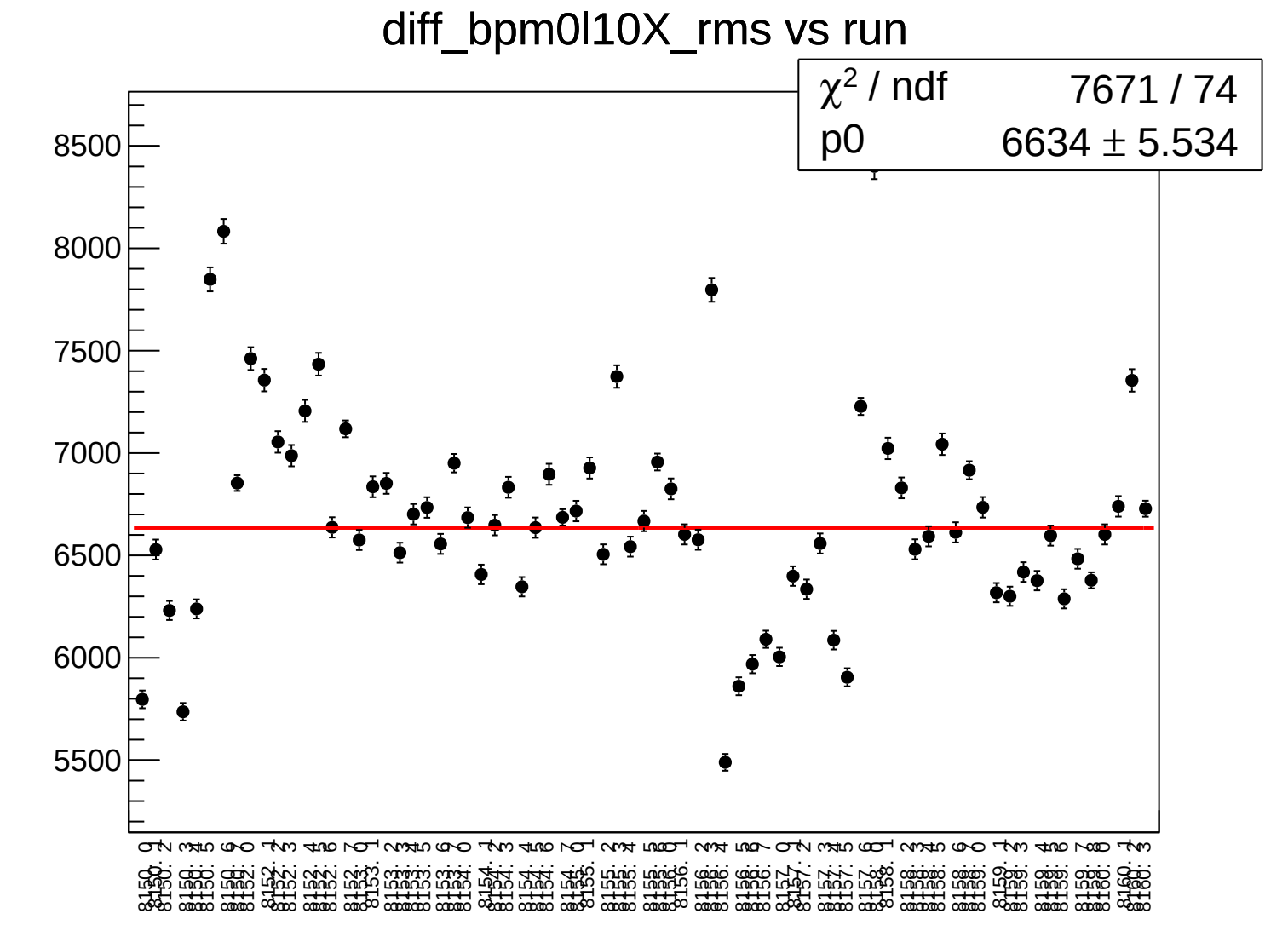

diff_bpm0l09Y_mean vs run
χ^2 / ndf 71.53 / 74
p0 −8.541 ± 5.191
pull
Entries 75
Mean 8.762
Std Dev 69.57

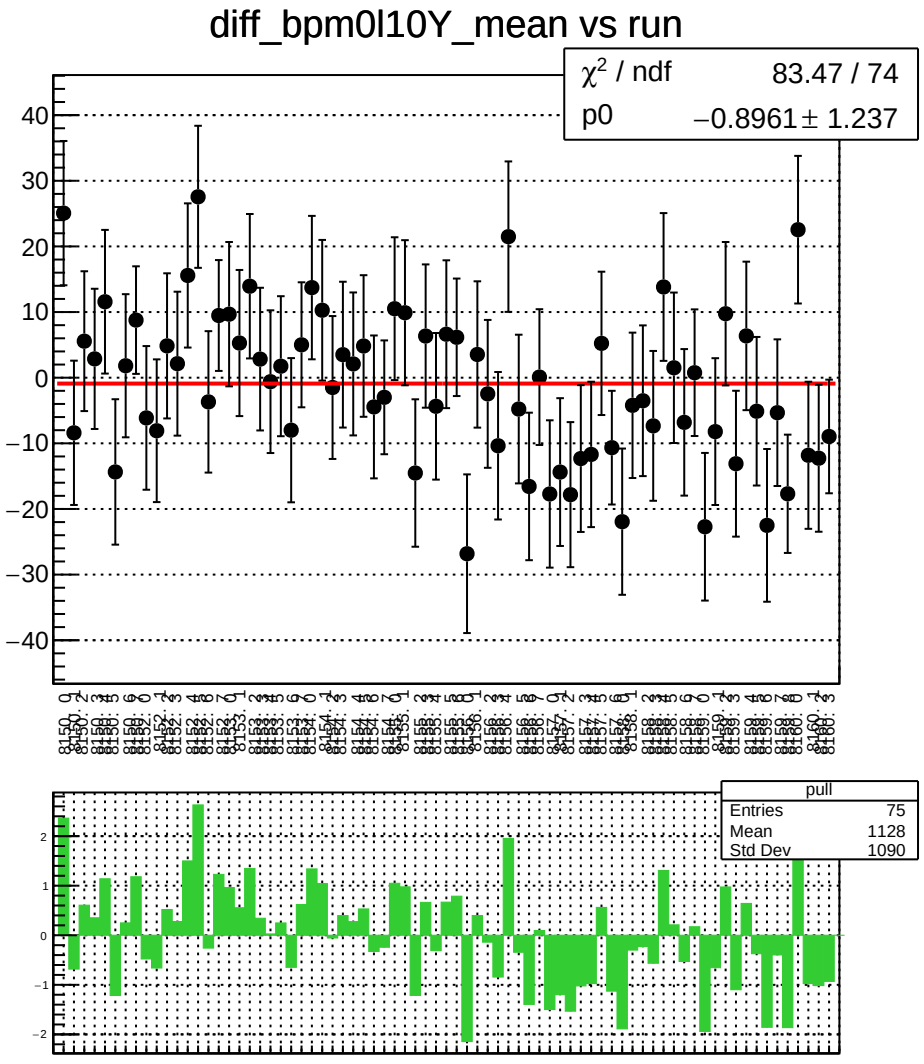

pull1D
Entries 75
Mean 0.006224
Std Dev 0.9766

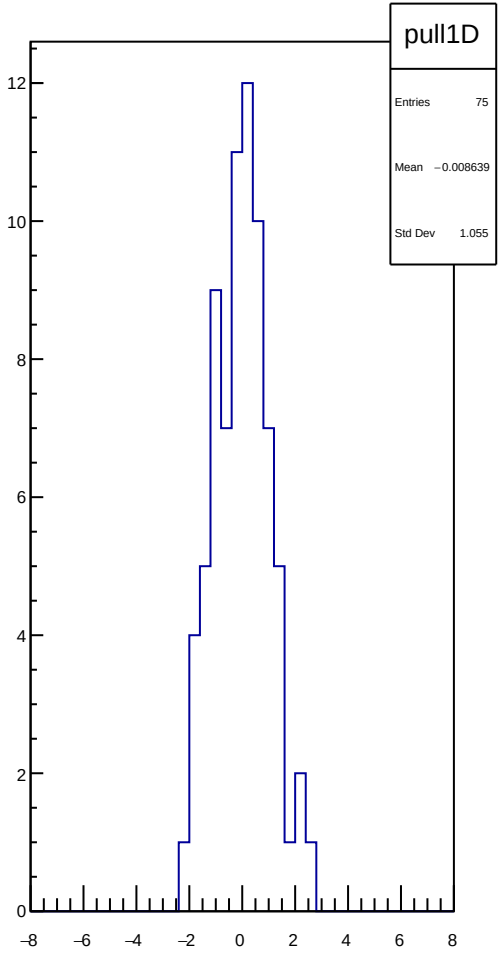

diff_bpm0l09Y_rms vs run
χ² / ndf 172.9 / 74
p0 4412 ± 3.671
4550
4500
4450
4400
4350
4300
4250

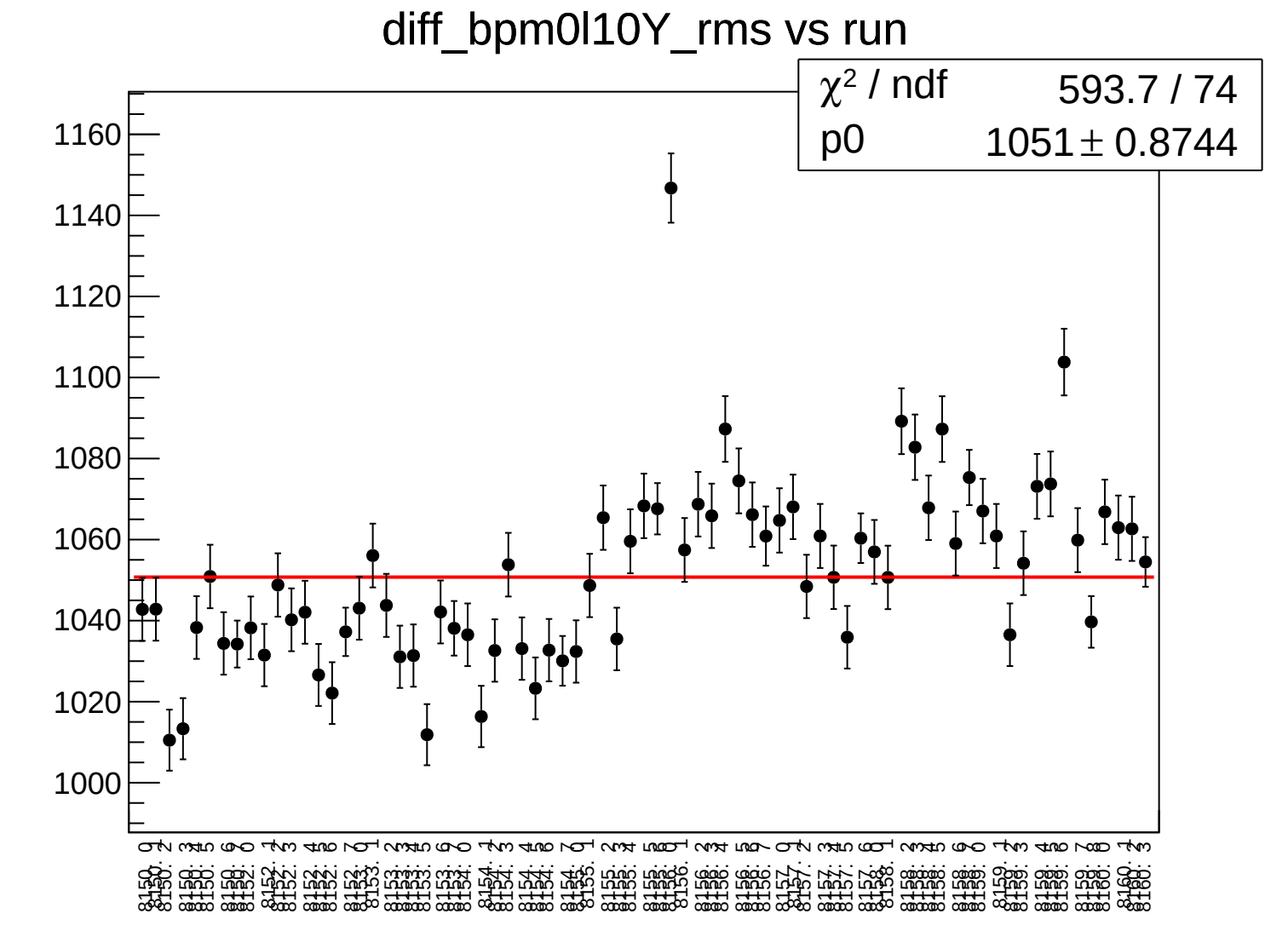

diff_bpm0l10X_mean vs run
χ² / ndf 78.35 / 74
p0 −98.88 ± 7.826
200
100
0
−100
−200
−300
pull
Entries 75
Mean −51.84
Std Dev 82.54
3
2
1
0
−1
−2

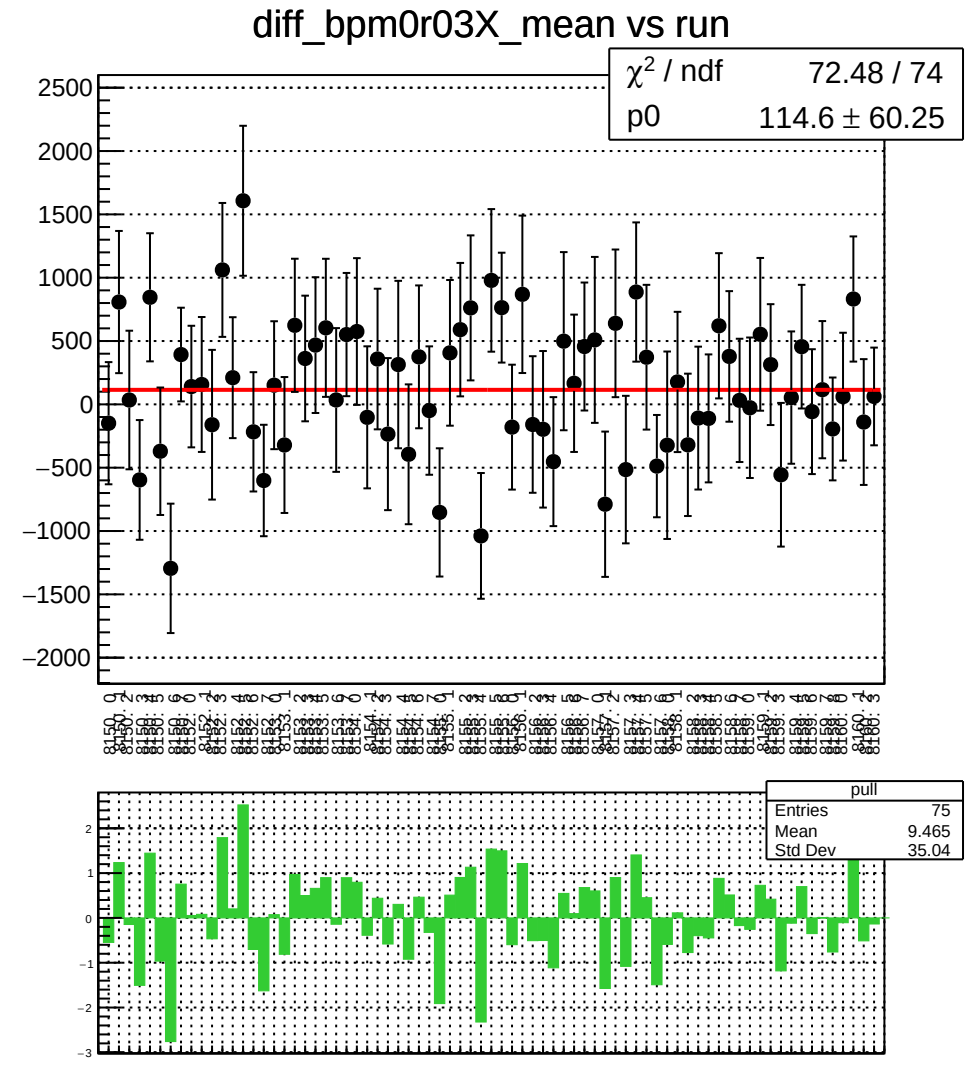

pull1D
Entries 75
Mean −0.01126
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

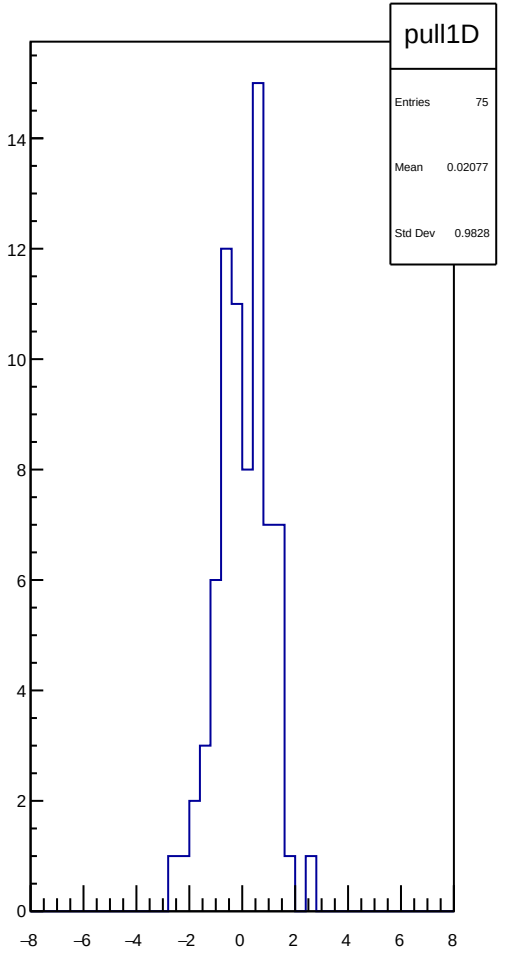

diff_bpm0l10X_rms vs run
χ² / ndf 7671 / 74
p0 6634 ± 5.534
8500
8000
7500
7000
6500
6000
5500

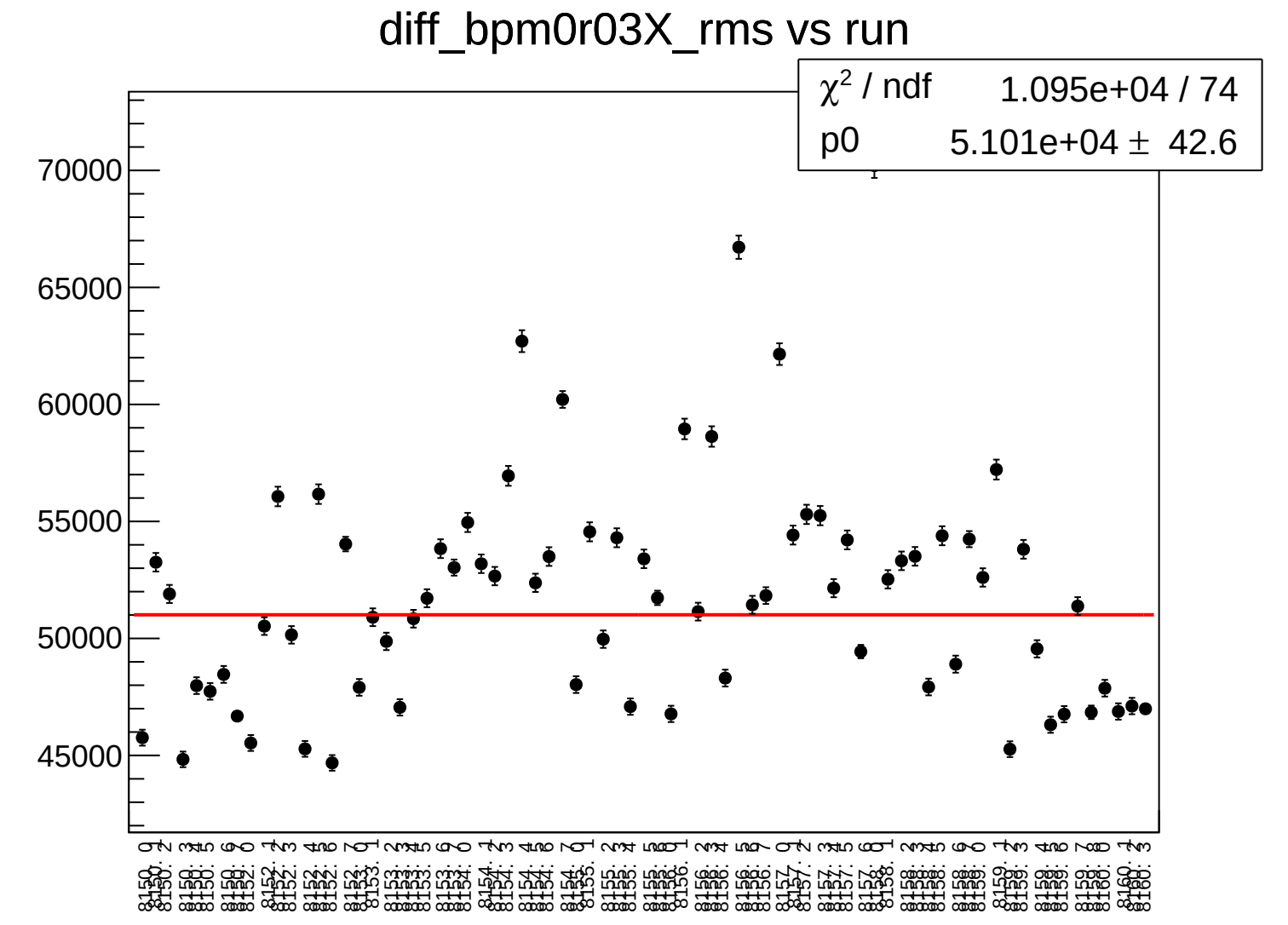

diff_bpm0l10Y_mean vs run
χ² / ndf 83.47 / 74
p0 −0.8961 ± 1.237
pull
Entries 75
Mean 1128
Std Dev 1090

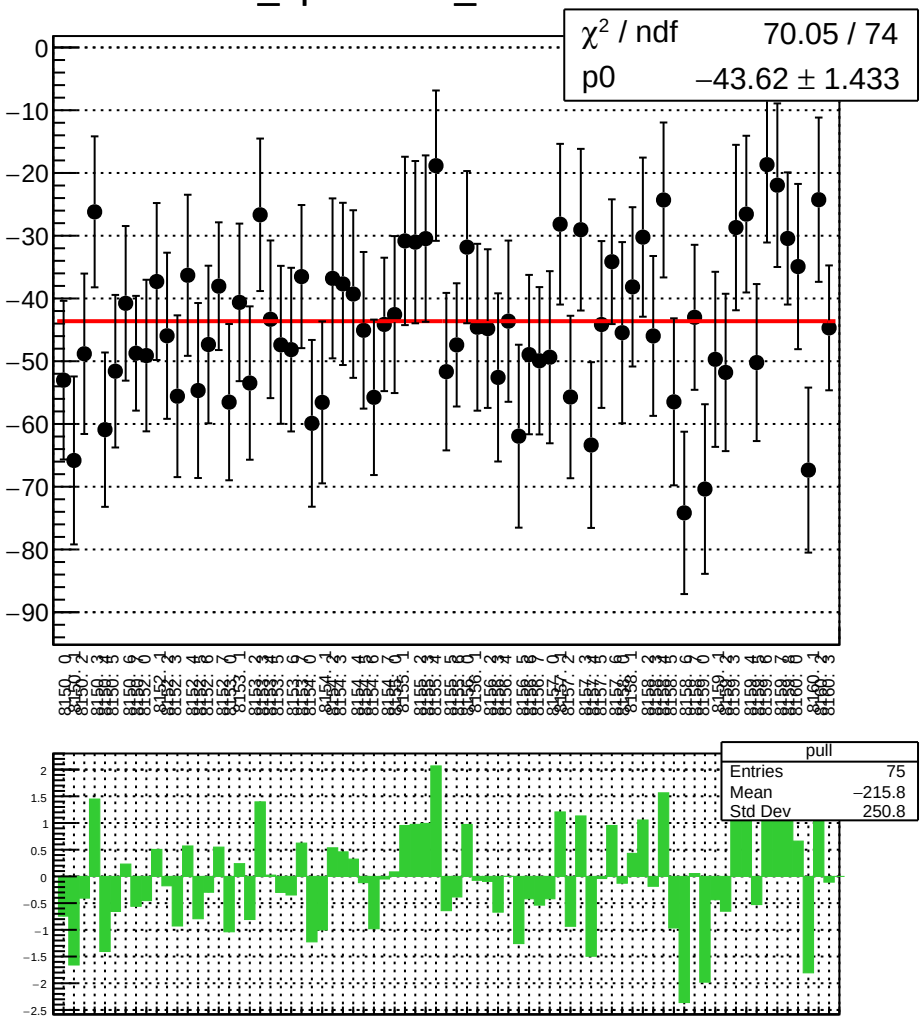

pull1D
Entries 75
Mean −0.008639
Std Dev 1.055

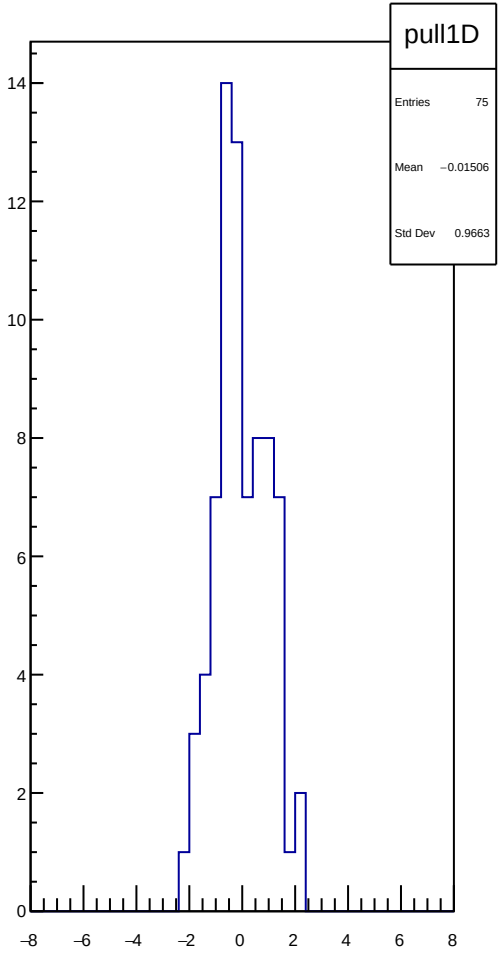

diff_bpm0l10Y_rms vs run
χ² / ndf 593.7 / 74
p0 1051 ± 0.8744
1160
1140
1120
1100
1080
1060
1040
1020
1000

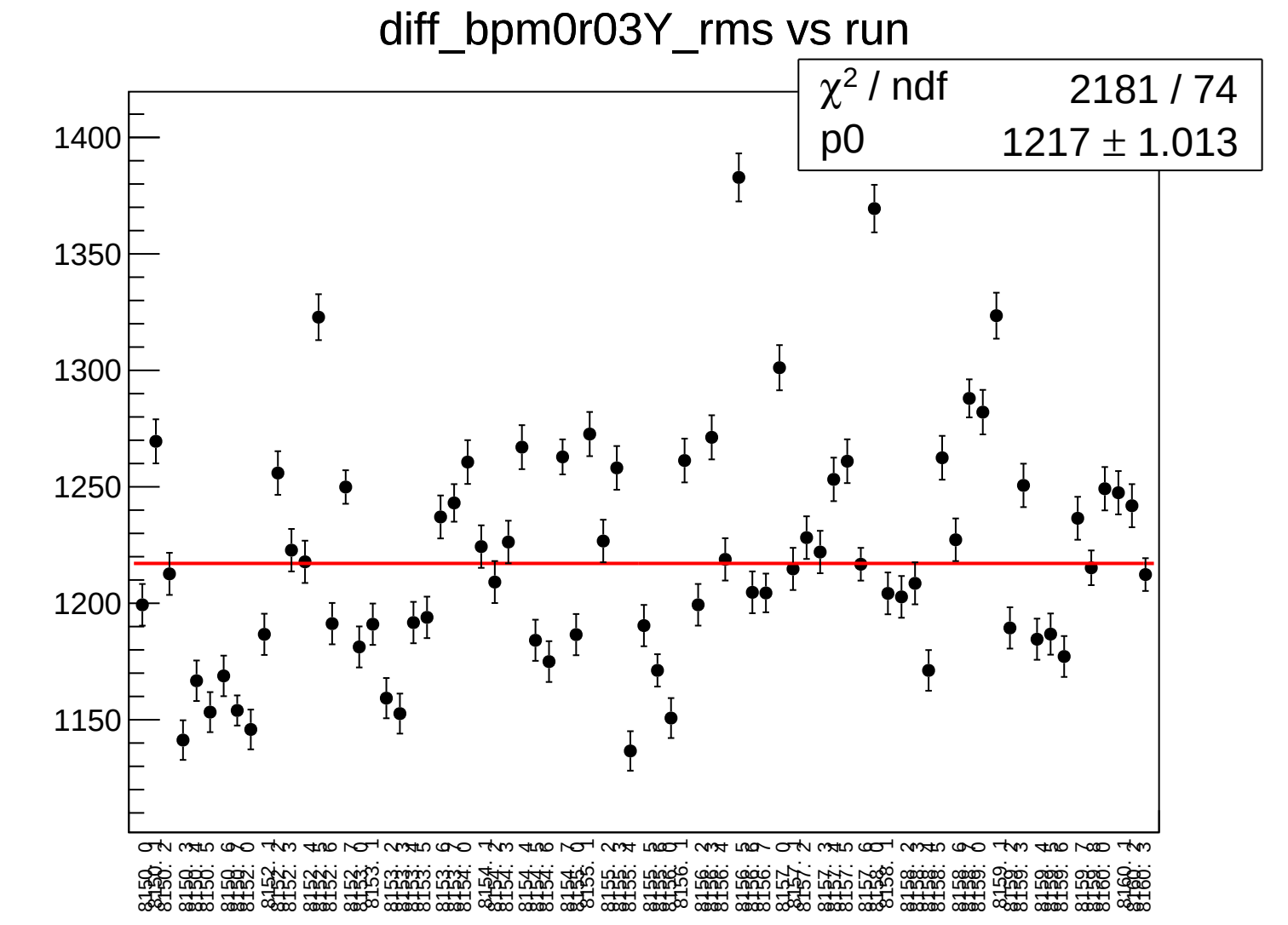

diff_bpm0r03X_mean vs run
χ² / ndf 72.48 / 74
p0 114.6 ± 60.25
pull
Entries 75
Mean 9.465
Std Dev 35.04

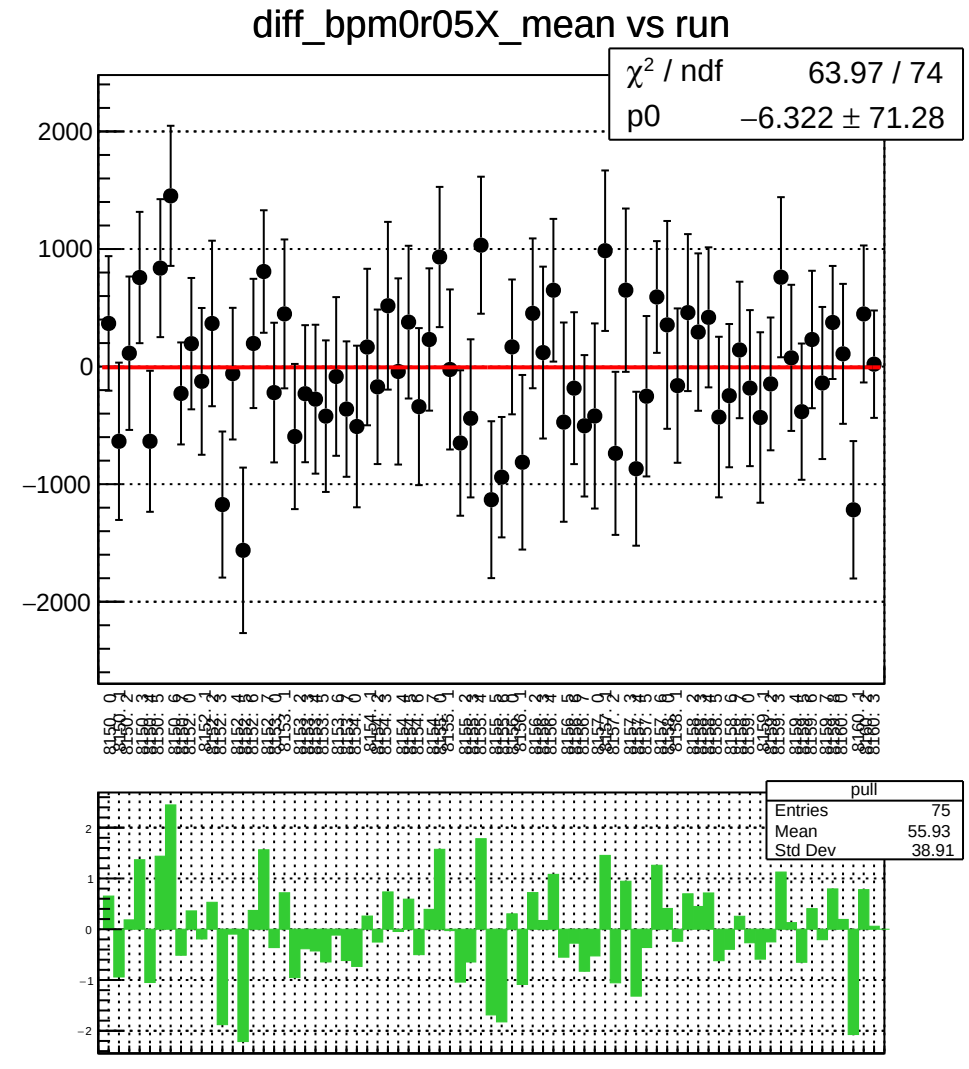

pull1D
Entries 75
Mean 0.02077
Std Dev 0.9828

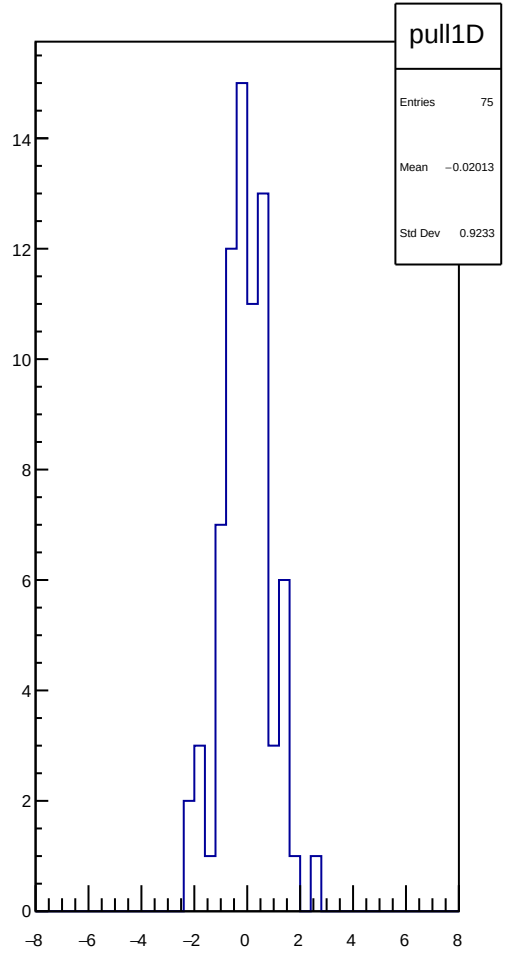

diff_bpm0r03X_rms vs run
χ^2 / ndf 1.095e+04 / 74
p0 5.101e+04 ± 42.6
70000
65000
60000
55000
50000
45000

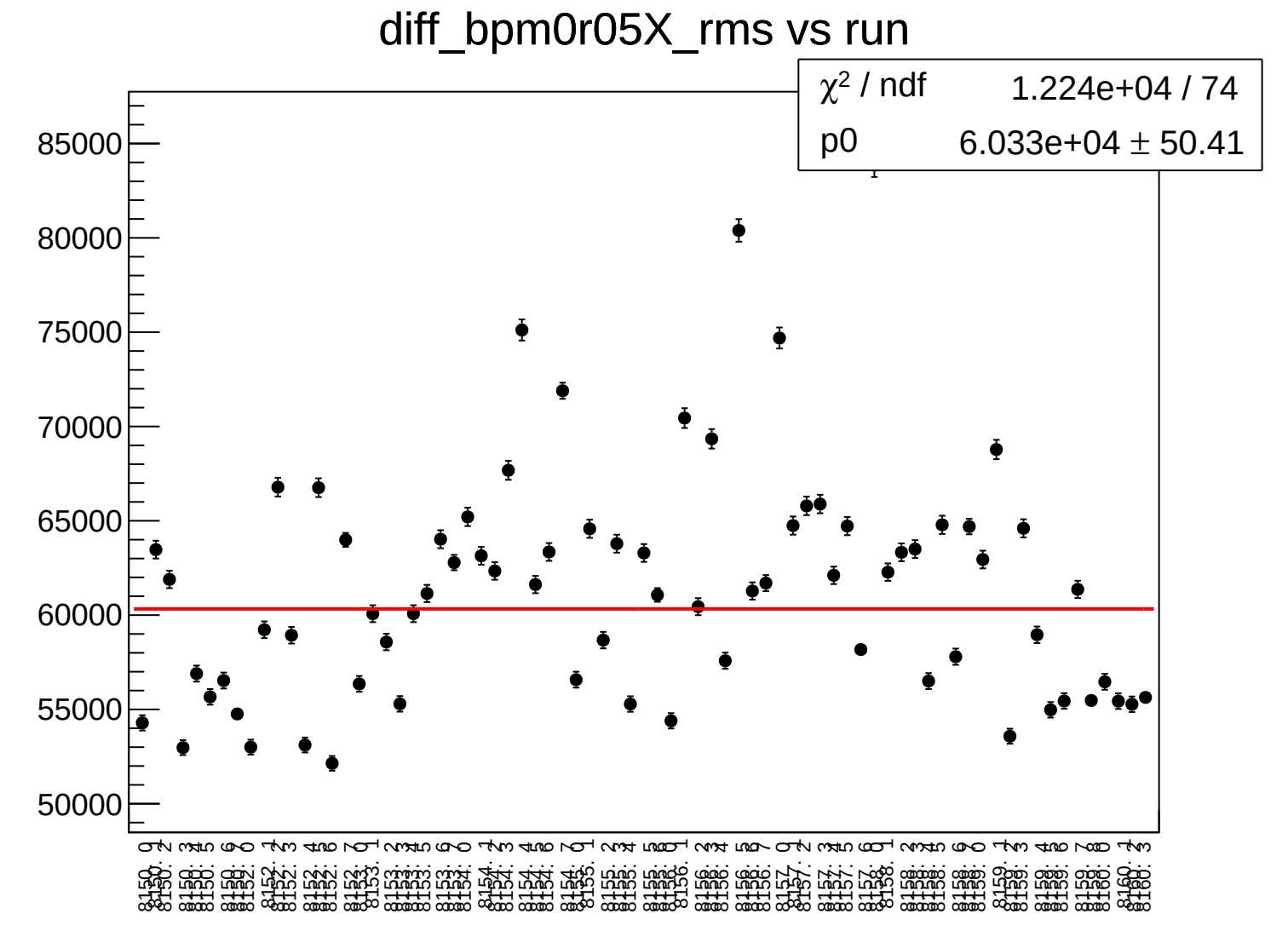

diff_bpm0r03Y_mean vs run
χ² / ndf 70.05 / 74
p0 −43.62 ± 1.433
pull
Entries 75
Mean −215.8
Std Dev 250.8

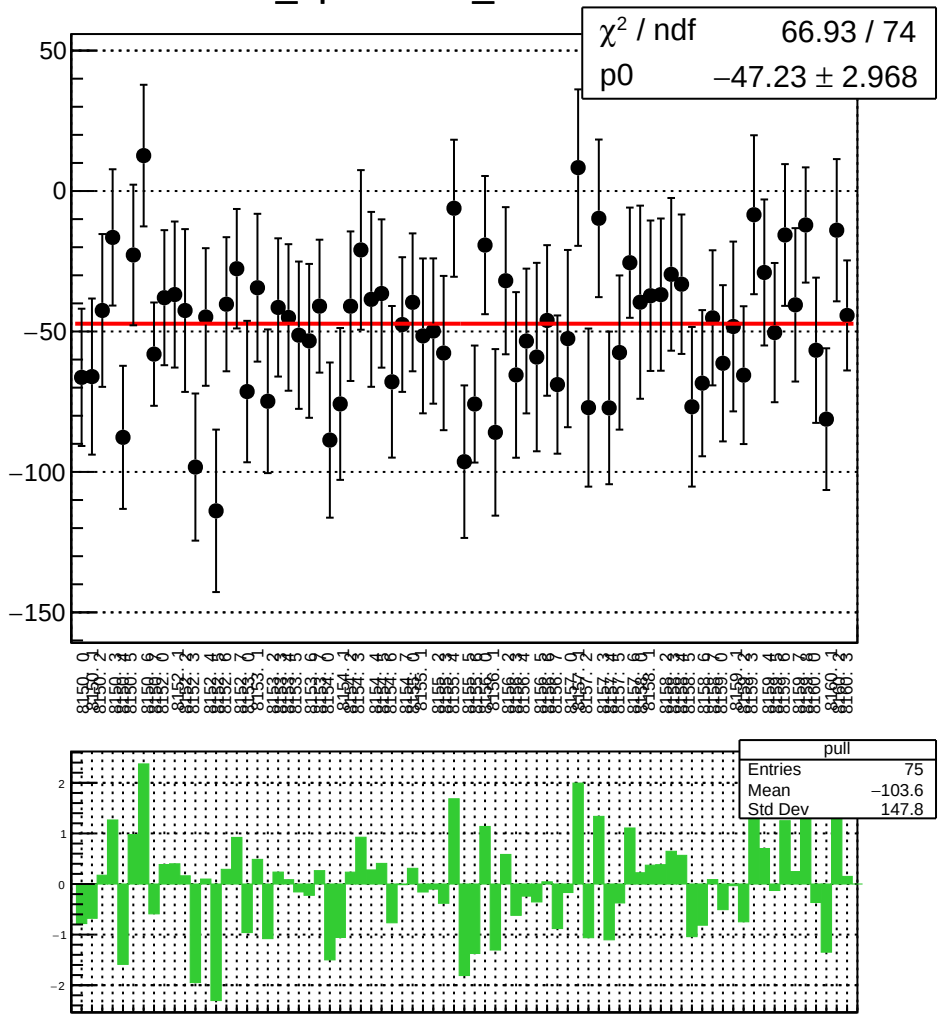

pull1D
Entries 75
Mean −0.01506
Std Dev 0.9663

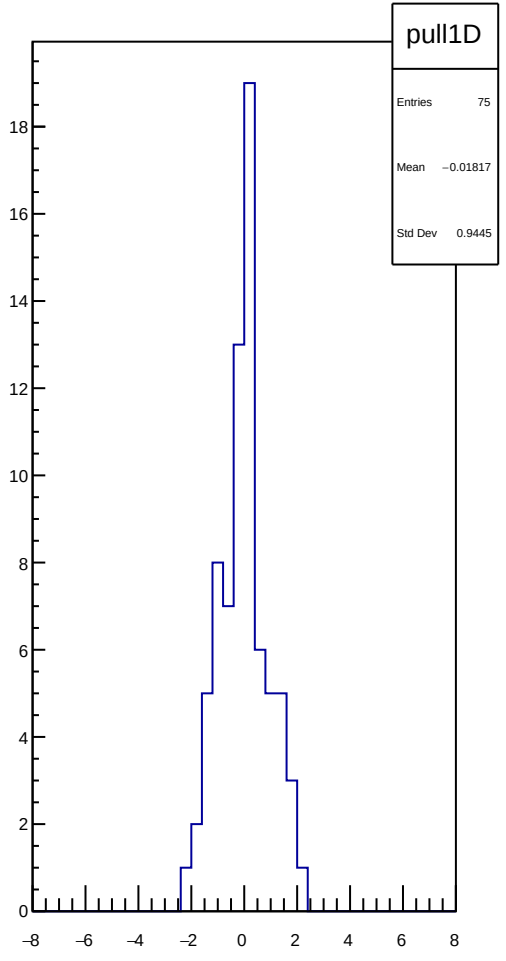

diff_bpm0r03Y_rms vs run
χ² / ndf 2181 / 74
p0 1217 ± 1.013
1400
1350
1300
1250
1200
1150

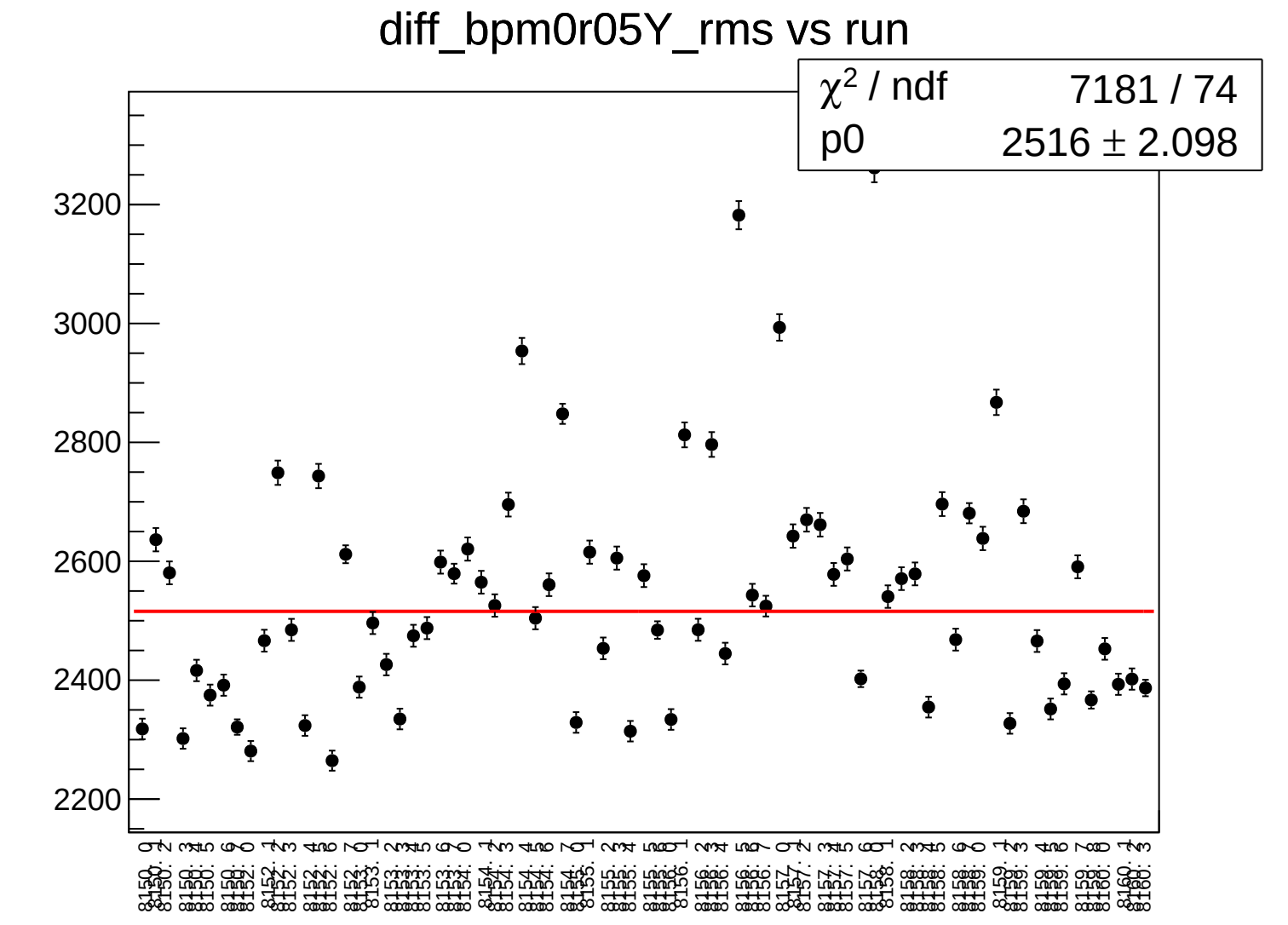

diff_bpm0r05X_mean vs run
χ² / ndf 63.97 / 74
p0 −6.322 ± 71.28
2000
1000
0
−1000
−2000
pull
Entries 75
Mean 55.93
Std Dev 38.91
2
1
0
−1
−2

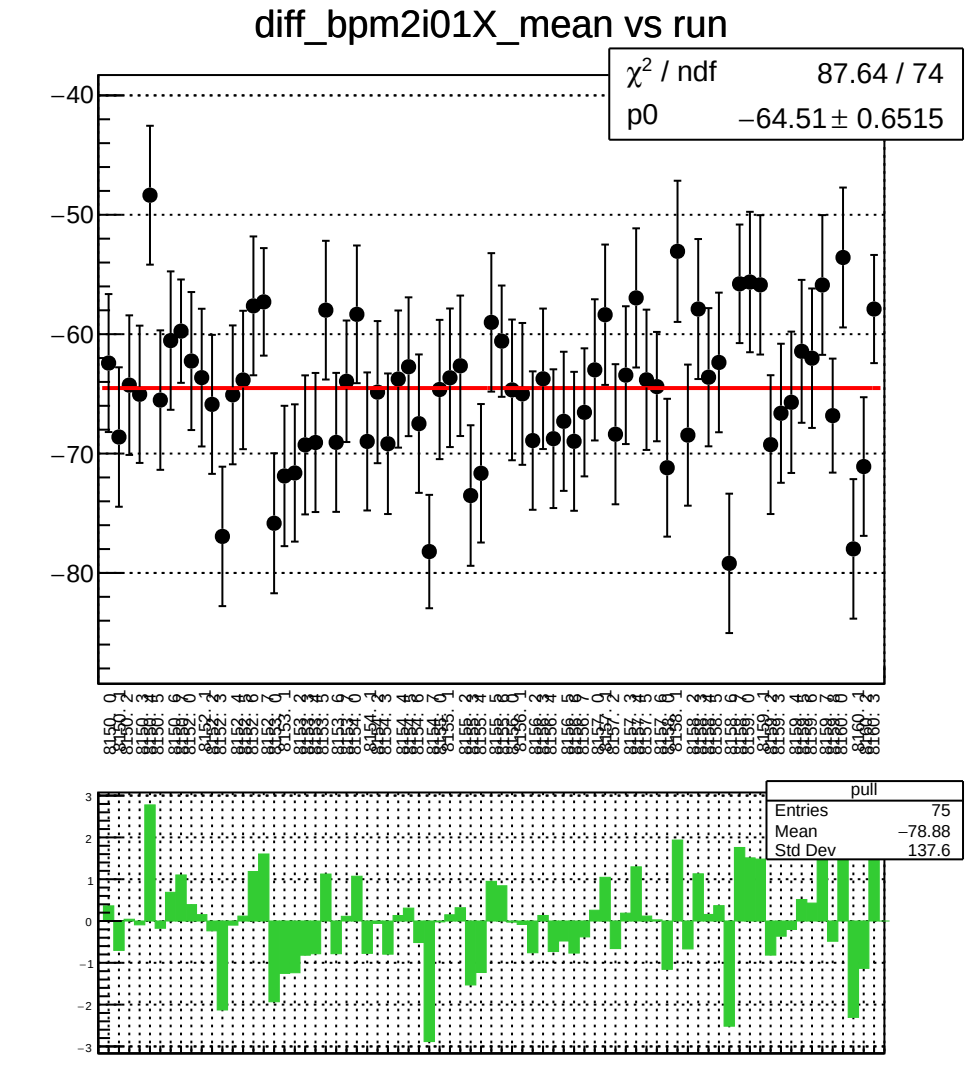

pull1D
Entries 75
Mean −0.02013
Std Dev 0.9233
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

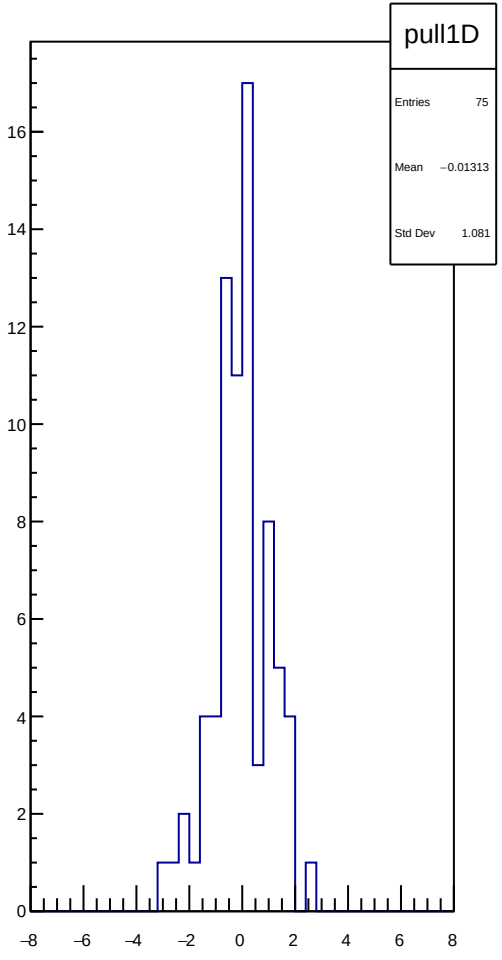

diff_bpm0r05X_rms vs run
χ² / ndf 1.224e+04 / 74
p0 6.033e+04 ± 50.41
85000
80000
75000
70000
65000
60000
55000
50000

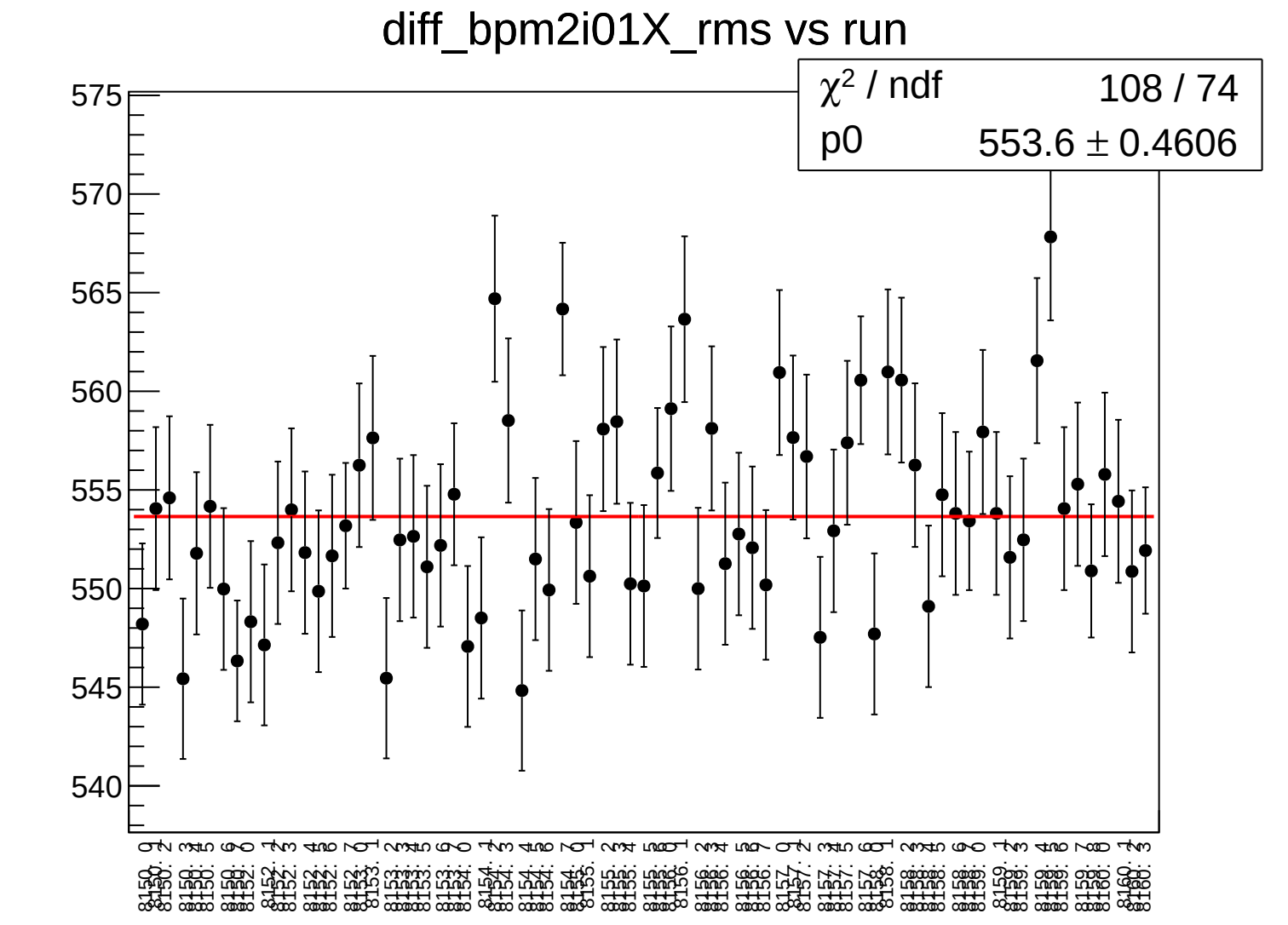

diff_bpm0r05Y_mean vs run
χ² / ndf 66.93 / 74
p0 −47.23 ± 2.968
pull
Entries 75
Mean −103.6
Std Dev 147.8

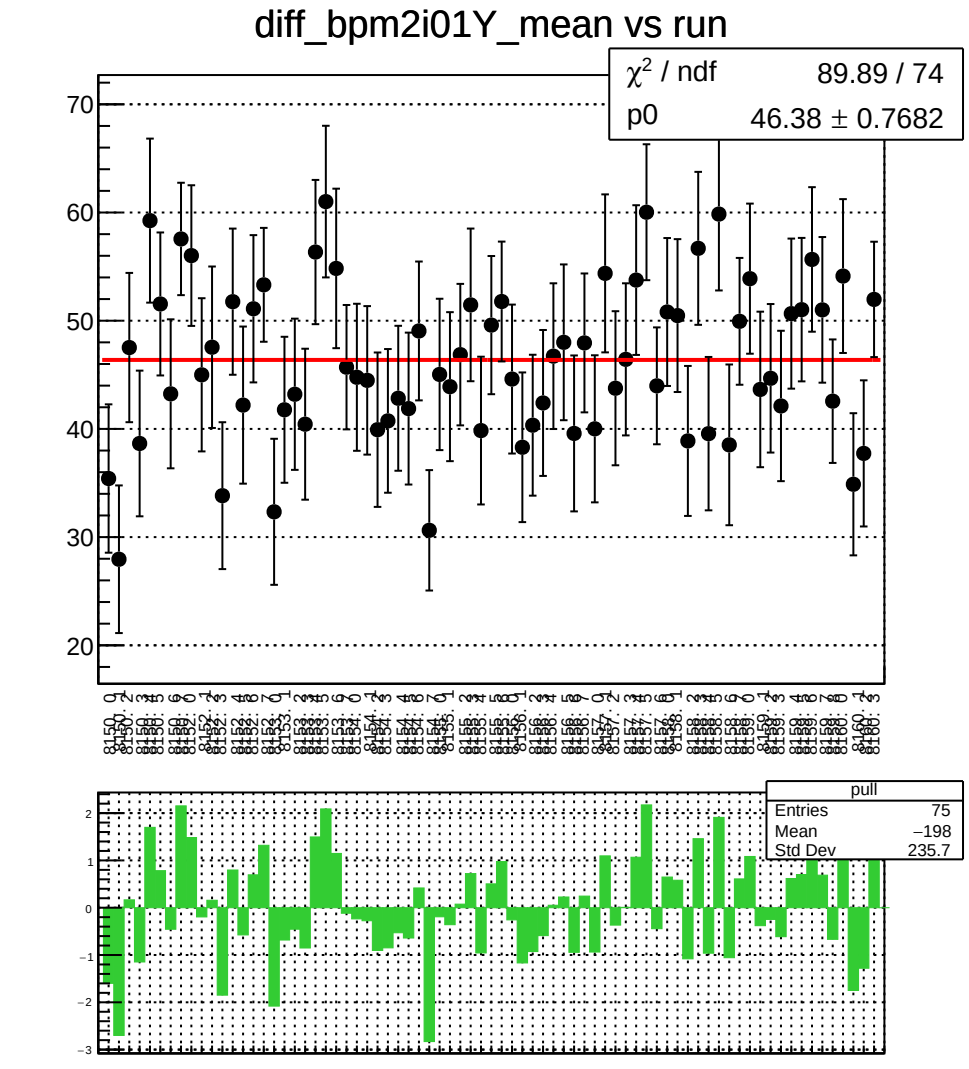

pull1D
Entries 75
Mean −0.01817
Std Dev 0.9445

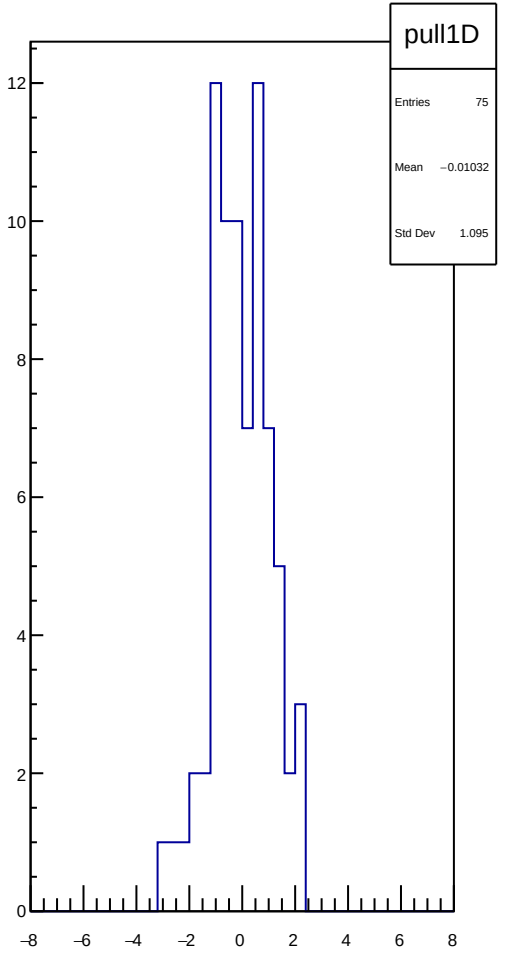

diff_bpm0r05Y_rms vs run
χ² / ndf 7181 / 74
p0 2516 ± 2.098
3200
3000
2800
2600
2400
2200

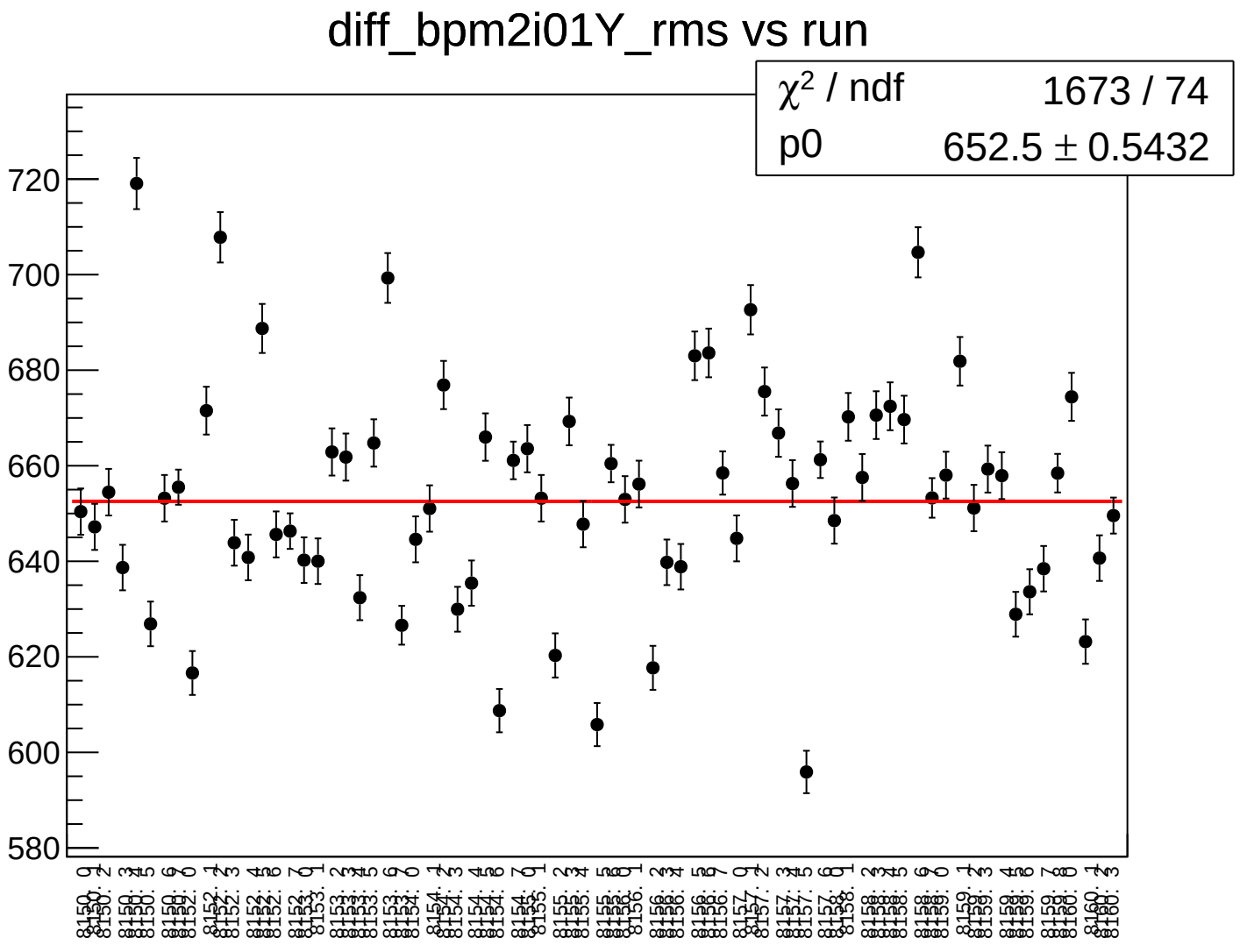

diff_bpm2i01X_mean vs run
χ² / ndf 87.64 / 74
p0 −64.51 ± 0.6515
pull
Entries 75
Mean −78.88
Std Dev 137.6

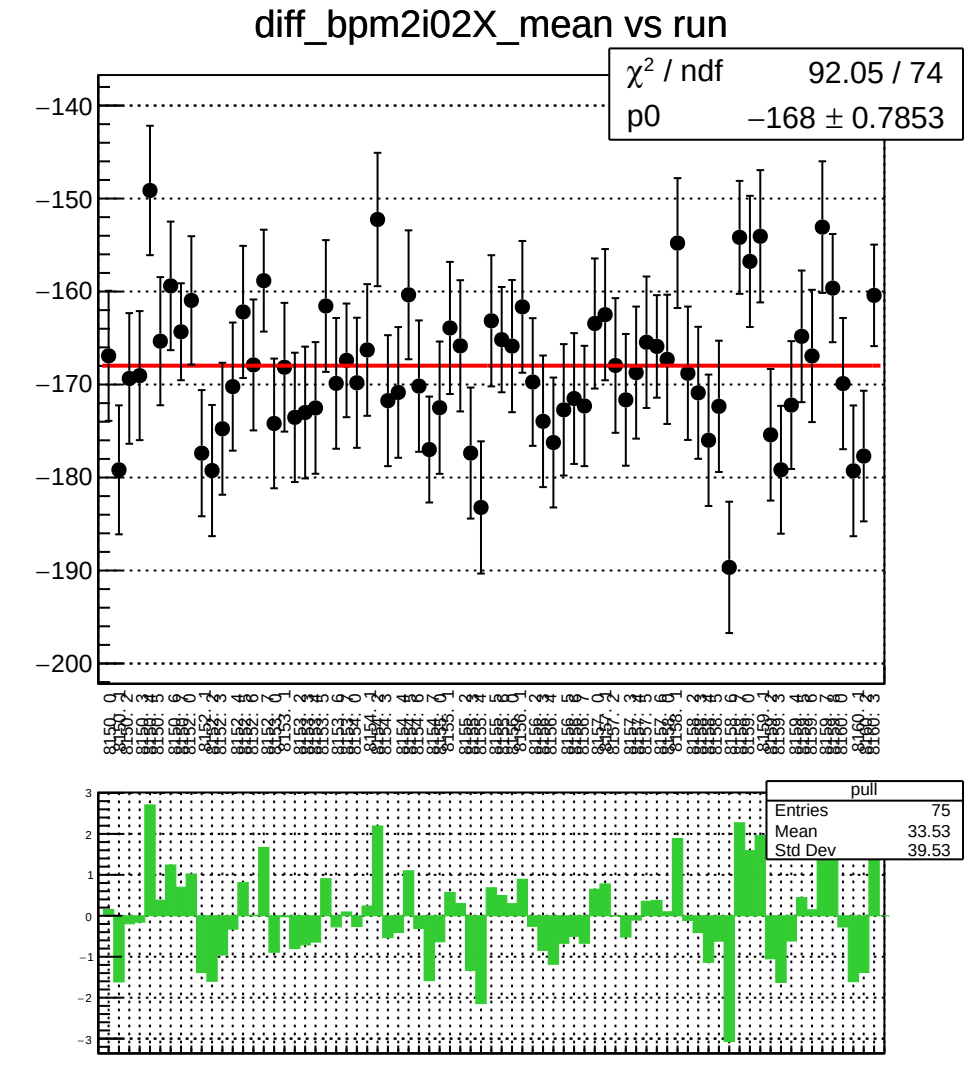

pull1D
Entries 75
Mean −0.01313
Std Dev 1.081

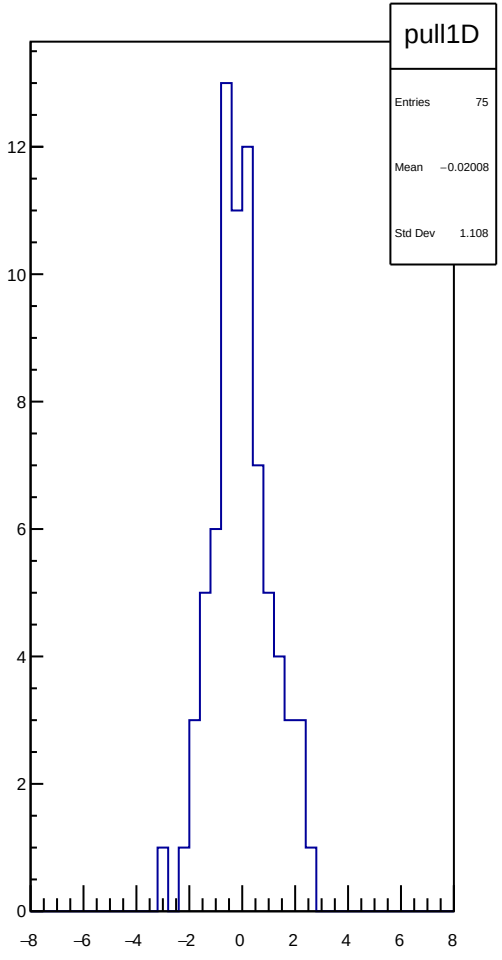

diff_bpm2i01X_rms vs run
χ^2 / ndf 108 / 74
p0 553.6 ± 0.4606
575
570
565
560
555
550
545
540

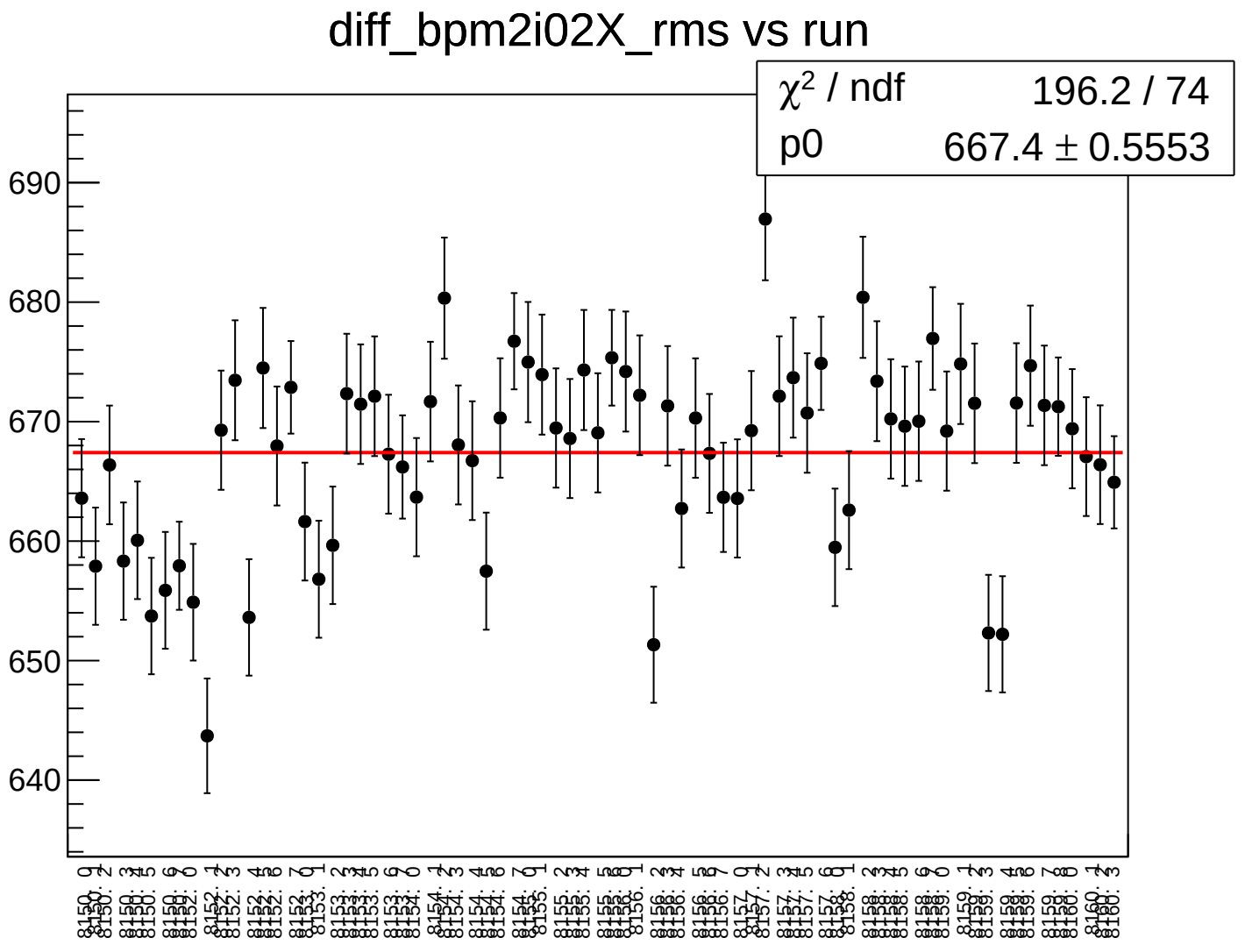

diff_bpm2i01Y_mean vs run
χ² / ndf 89.89 / 74
p0 46.38 ± 0.7682
pull
Entries 75
Mean −198
Std Dev 235.7

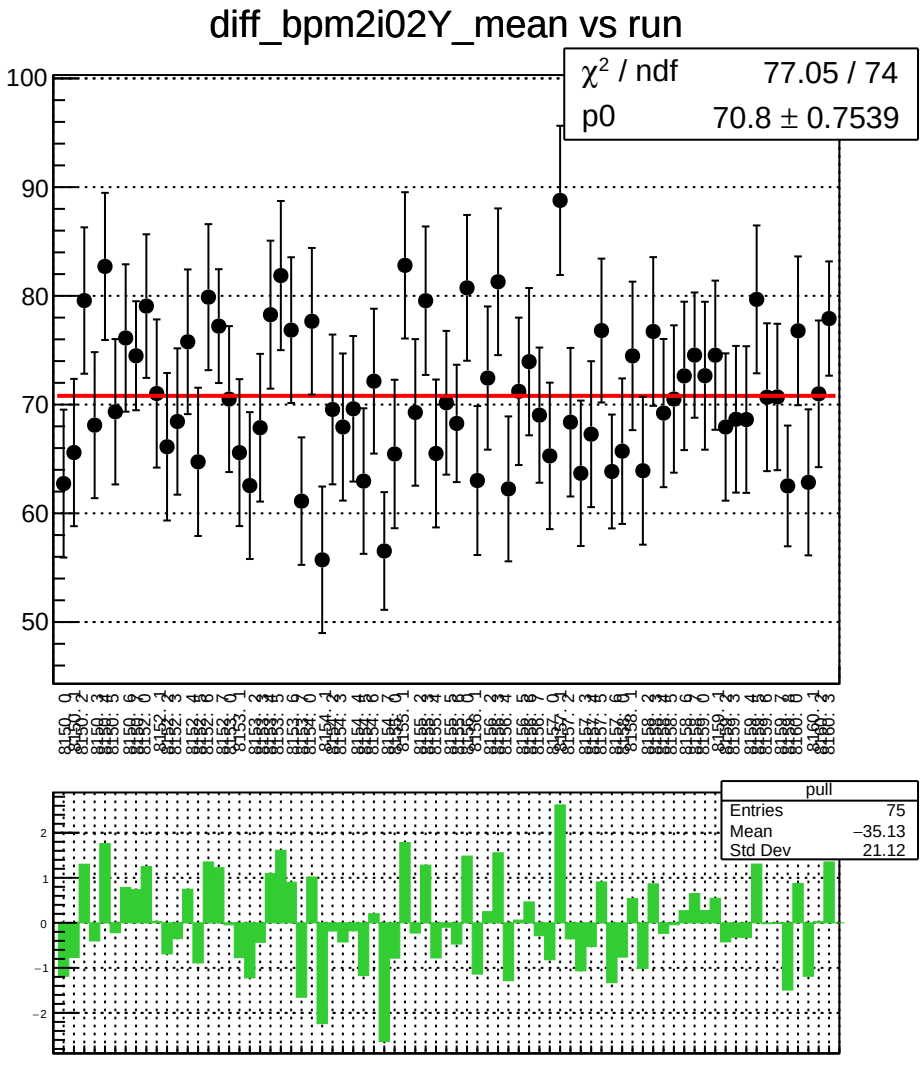

pull1D
Entries 75
Mean −0.01032
Std Dev 1.095

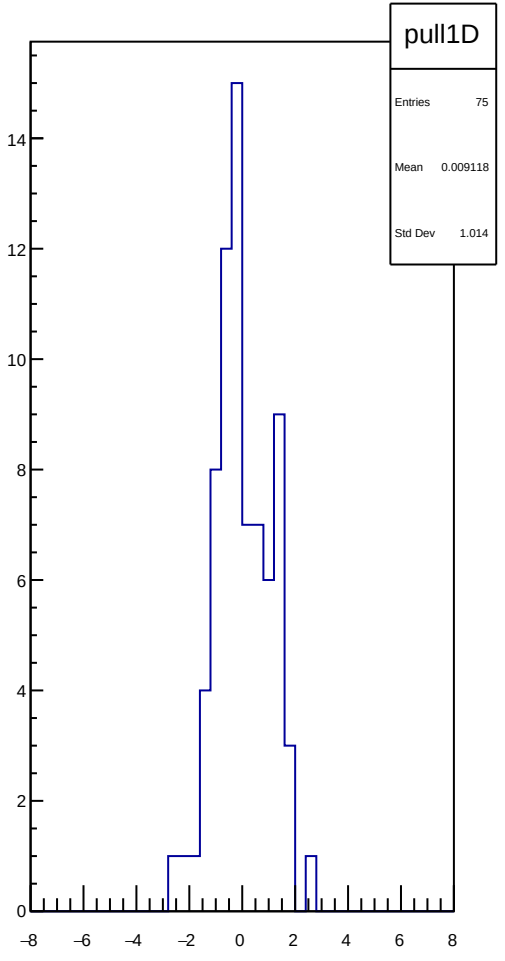

diff_bpm2i01Y_rms vs run
χ² / ndf 1673 / 74
p0 652.5 ± 0.5432
720
700
680
660
640
620
600
580

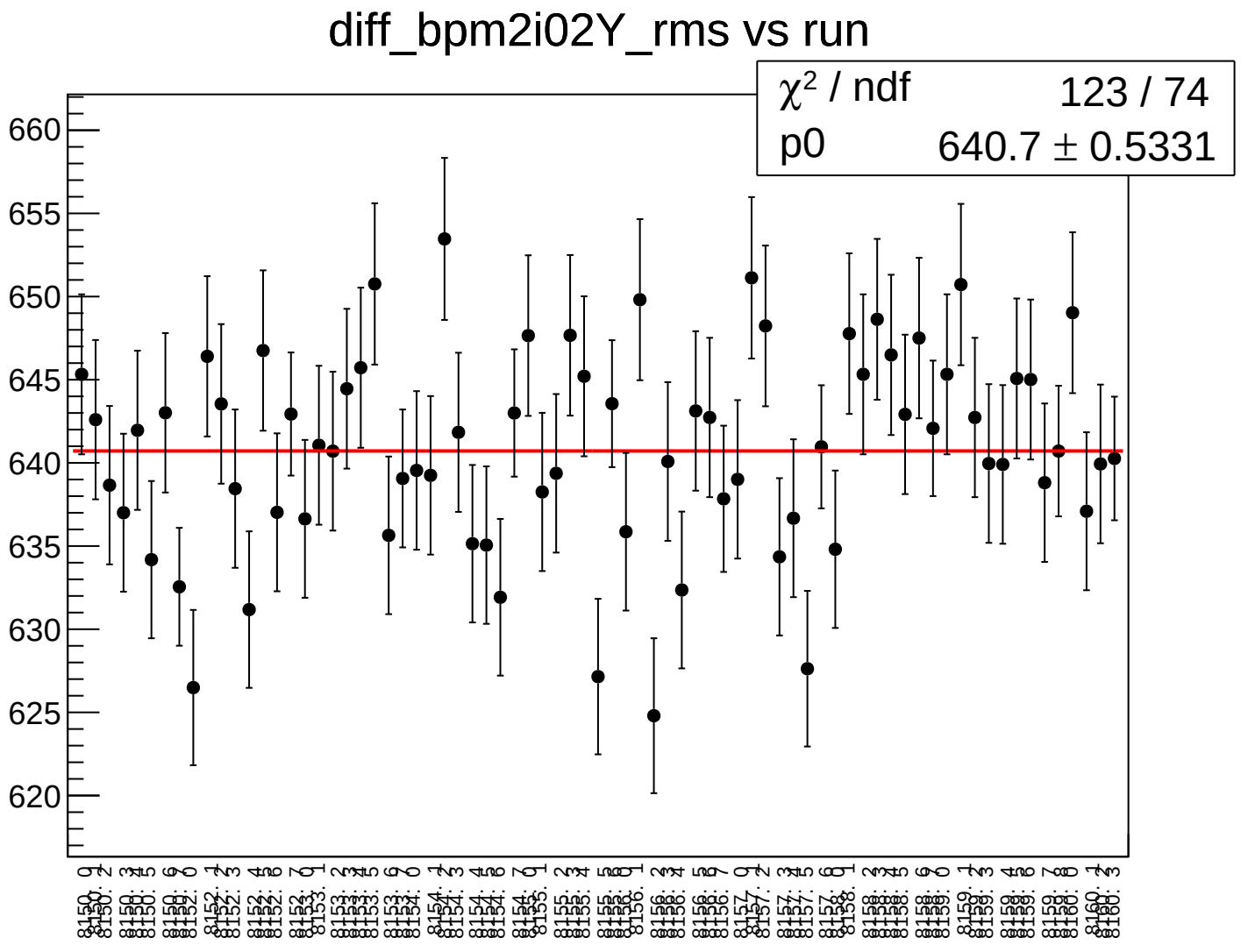

diff_bpm2i02X_mean vs run
χ² / ndf 92.05 / 74
p0 −168 ± 0.7853
pull
Entries 75
Mean 33.53
Std Dev 39.53

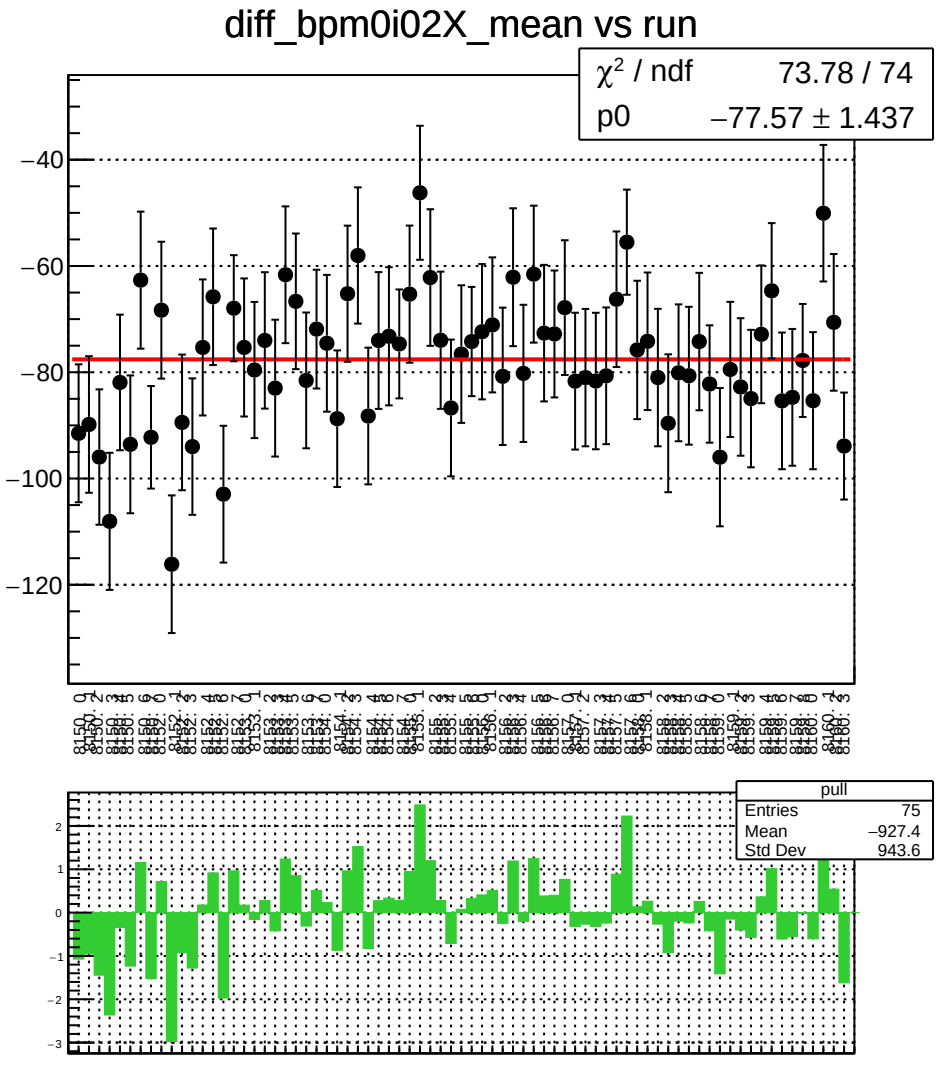

pull1D
Entries 75
Mean −0.02008
Std Dev 1.108

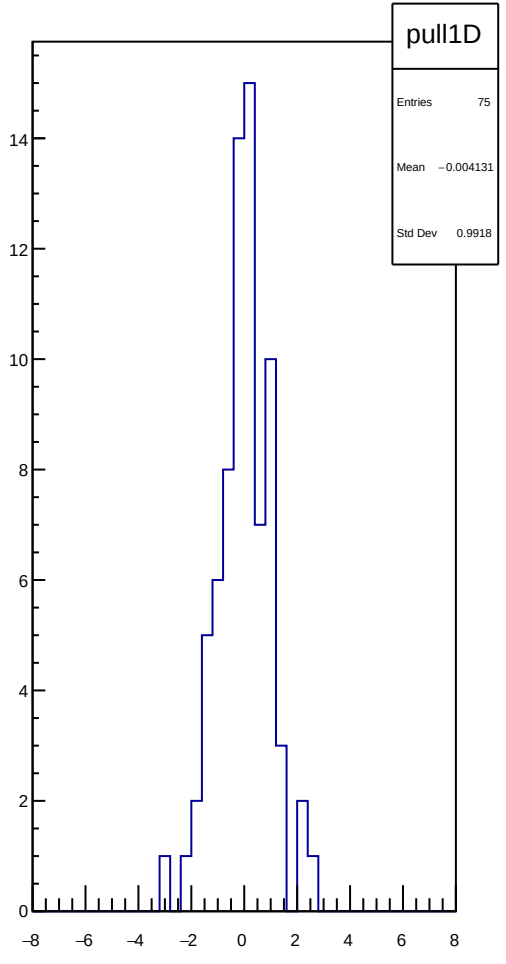

diff_bpm2i02X_rms vs run
χ² / ndf 196.2 / 74
p0 667.4 ± 0.5553
690
680
670
660
650
640

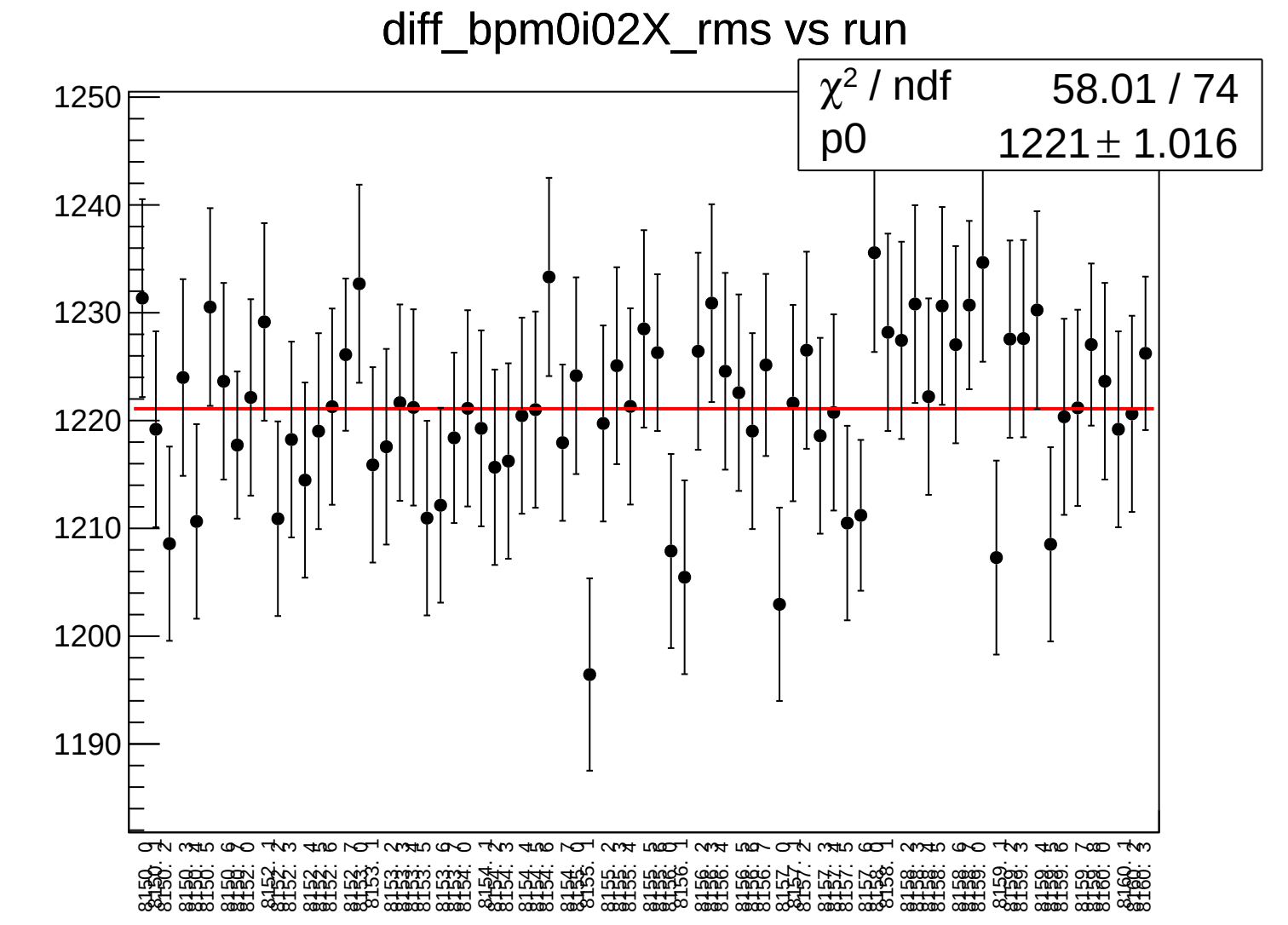

diff_bpm2i02Y_mean vs run
χ^2 / ndf 77.05 / 74
p0 70.8 ± 0.7539
pull
Entries 75
Mean −35.13
Std Dev 21.12

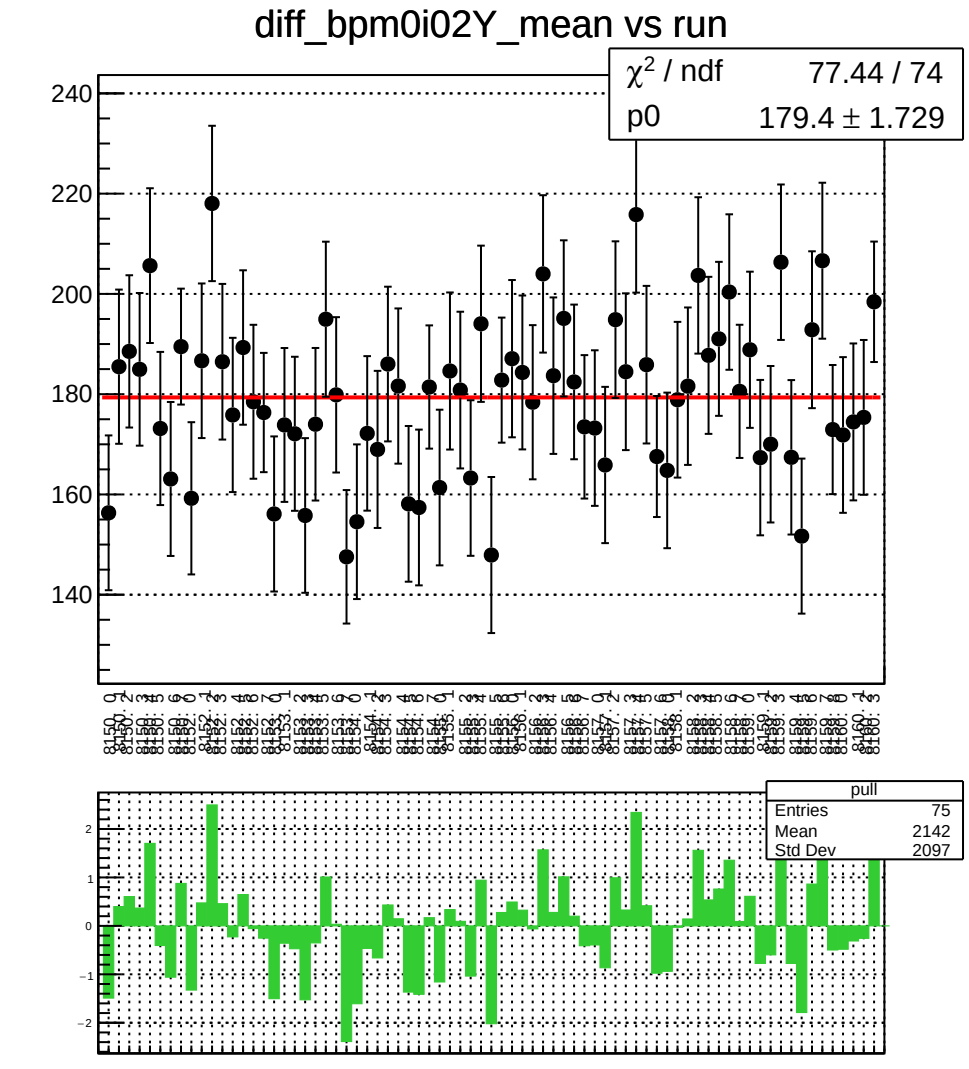

pull1D
Entries 75
Mean 0.009118
Std Dev 1.014

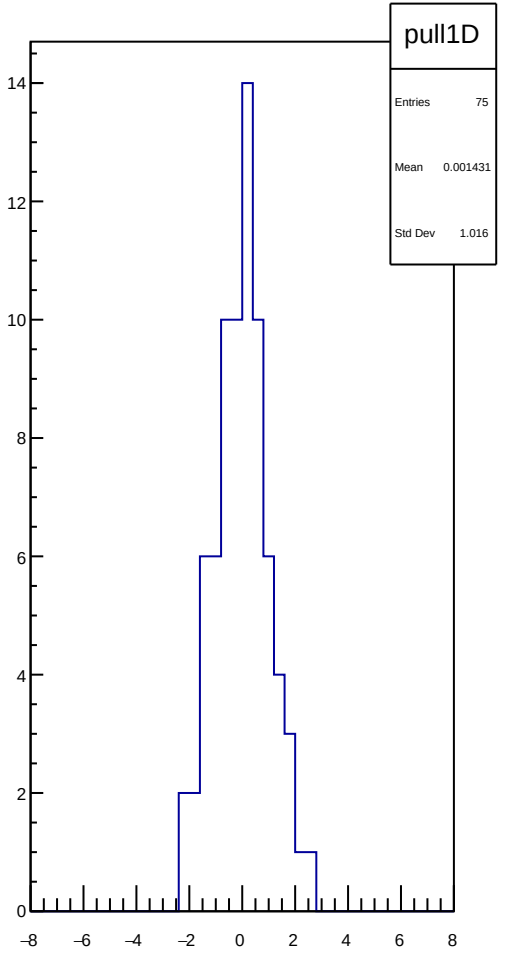

diff_bpm2i02Y_rms vs run
χ² / ndf 123 / 74
p0 640.7 ± 0.5331
660
655
650
645
640
635
630
625
620

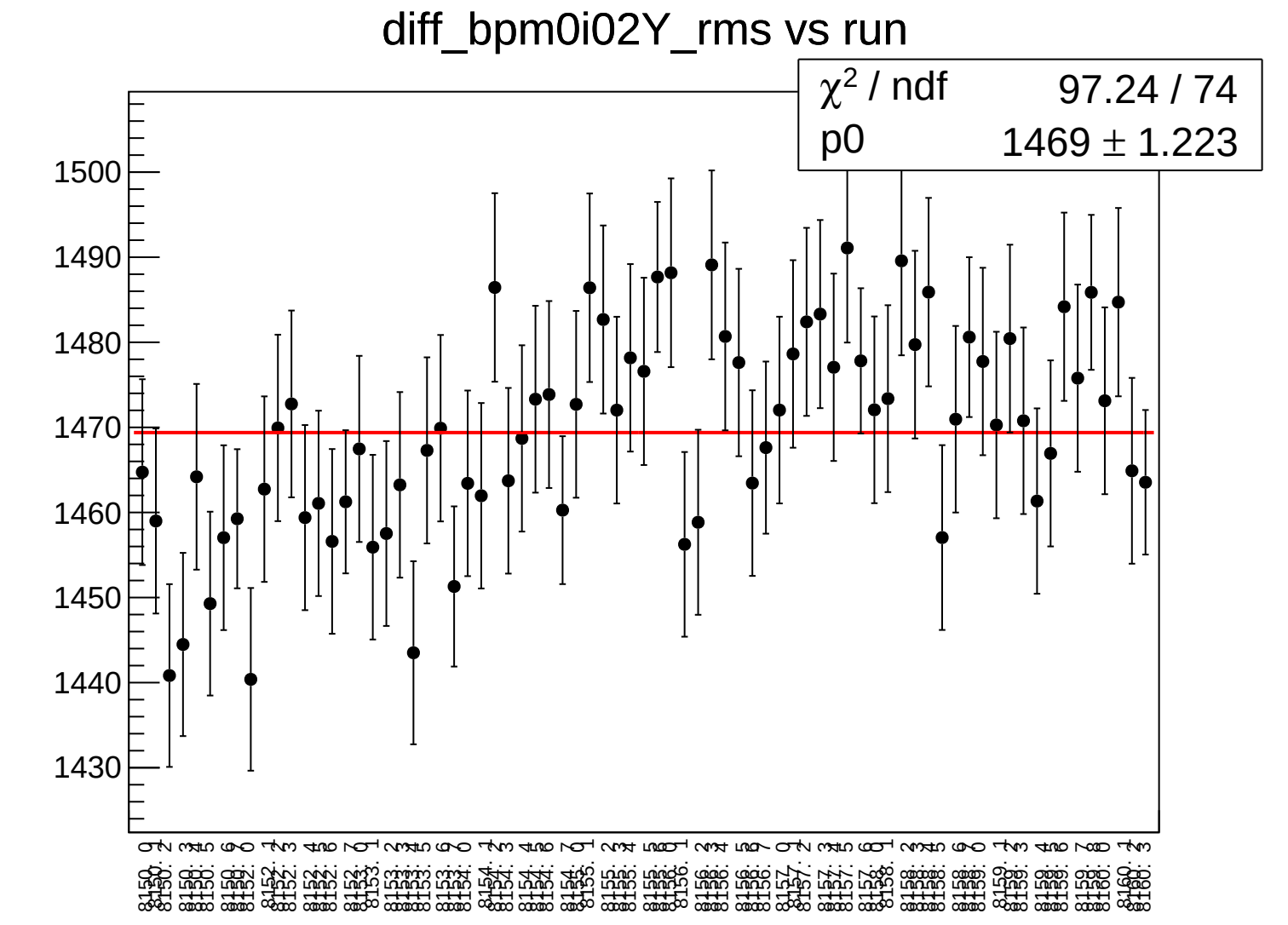

diff_bpm0i02X_mean vs run
χ² / ndf 73.78 / 74
p0 −77.57 ± 1.437
−40
−60
−80
−100
−120
pull
Entries 75
Mean −927.4
Std Dev 943.6
2
1
0
−1
−2
−3

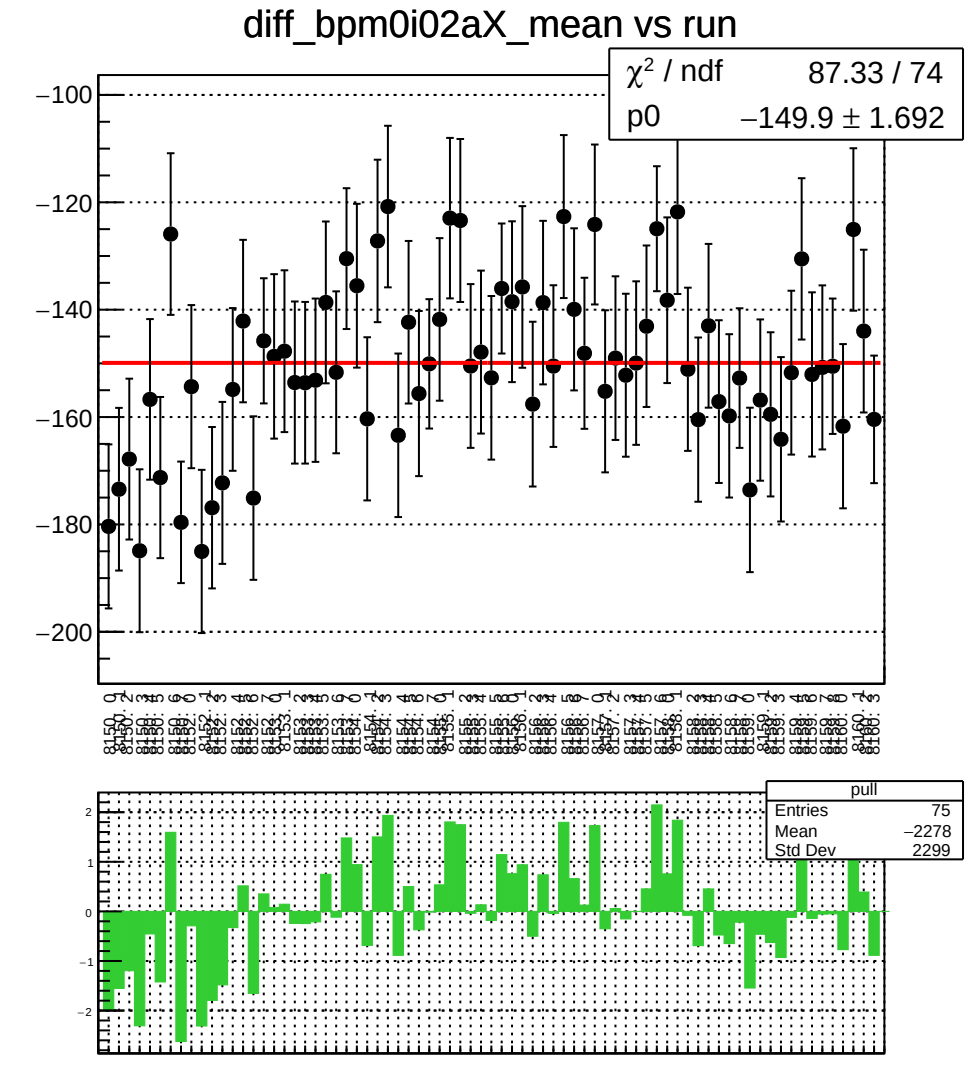

pull1D
Entries 75
Mean −0.004131
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

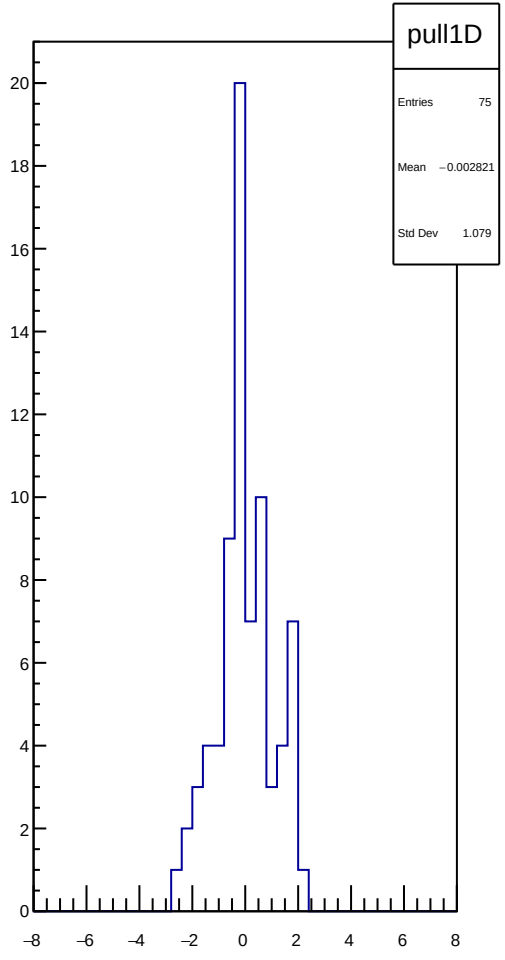

diff_bpm0i02X_rms vs run
χ² / ndf 58.01 / 74
p0 1221 ± 1.016
1250
1240
1230
1220
1210
1200
1190

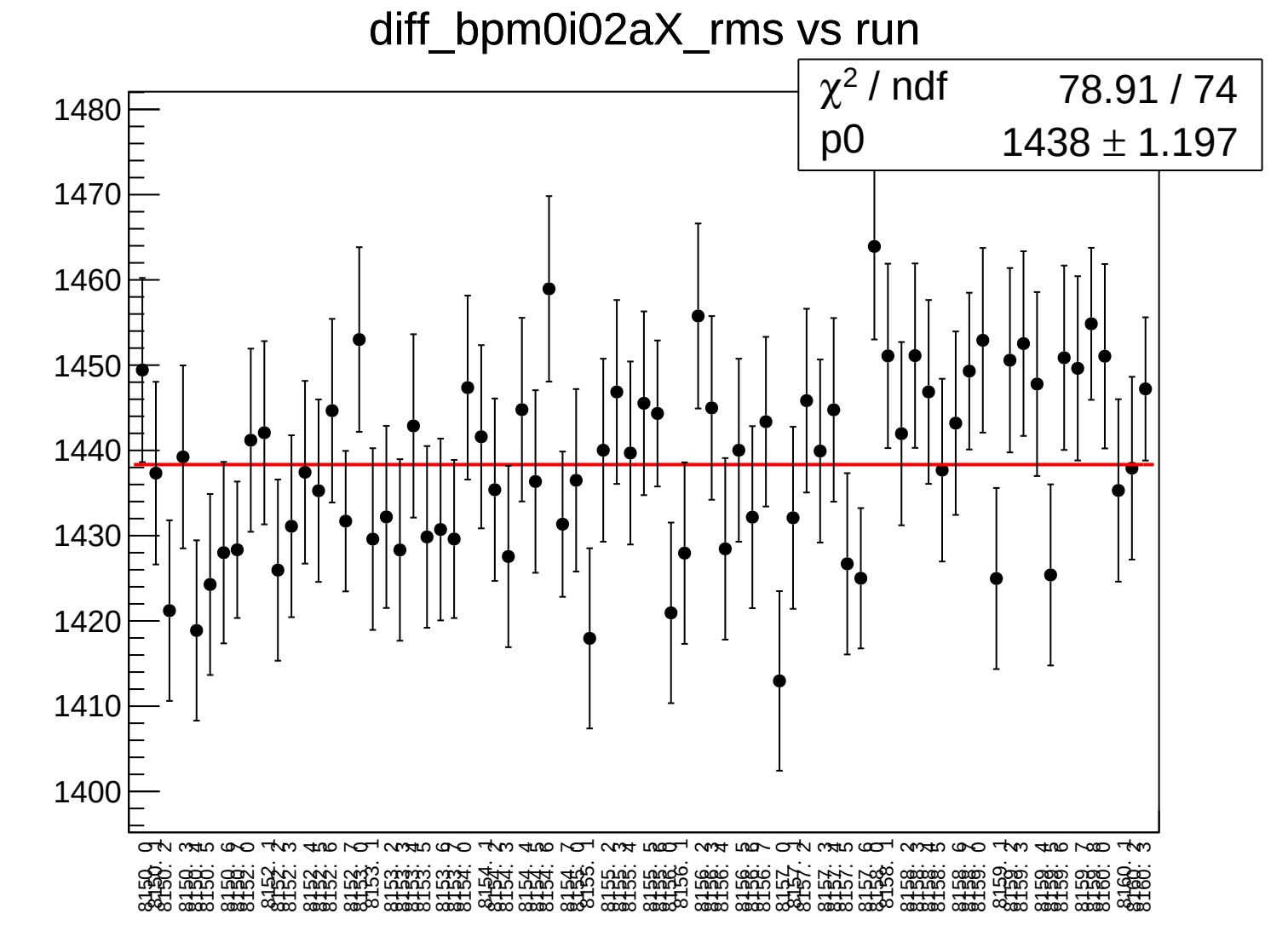

diff_bpm0i02Y_mean vs run
χ² / ndf 77.44 / 74
p0 179.4 ± 1.729
240
220
200
180
160
140
pull
Entries 75
Mean 2142
Std Dev 2097
2
1
0
−1
−2

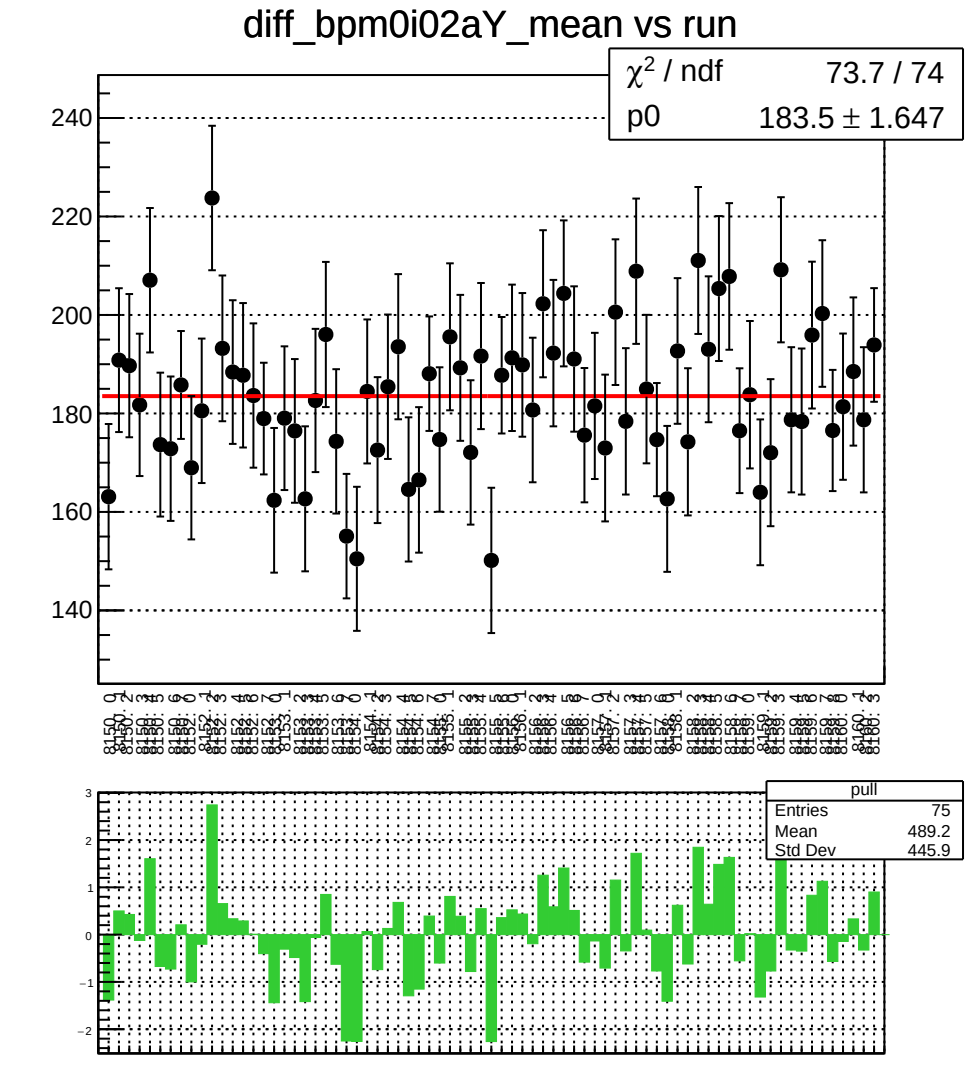

pull1D
Entries 75
Mean 0.001431
Std Dev 1.016
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

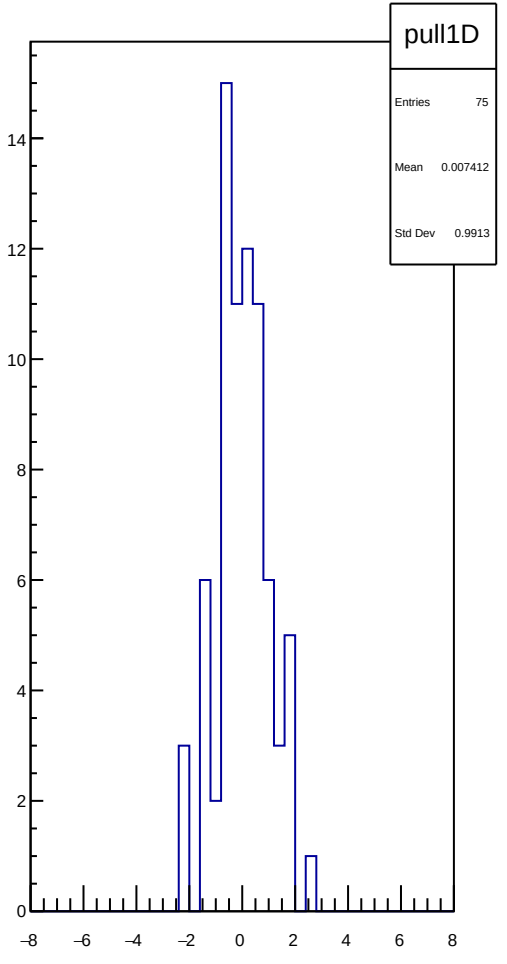

diff_bpm0i02Y_rms vs run
χ² / ndf 97.24 / 74
p0 1469 ± 1.223
1500
1490
1480
1470
1460
1450
1440
1430

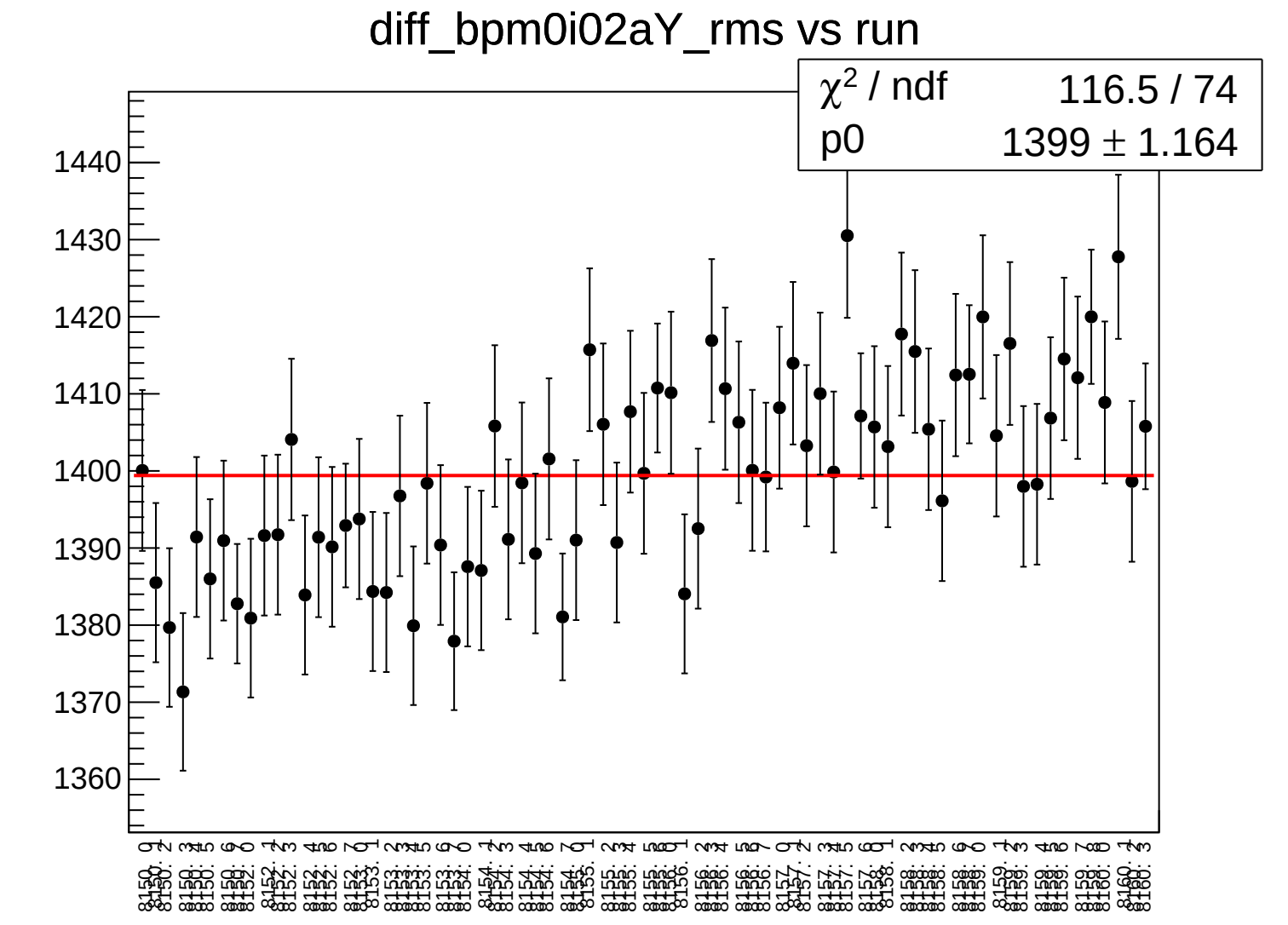

diff_bpm0i02aX_mean vs run
χ² / ndf 87.33 / 74
p0 −149.9 ± 1.692
pull
Entries 75
Mean −2278
Std Dev 2299

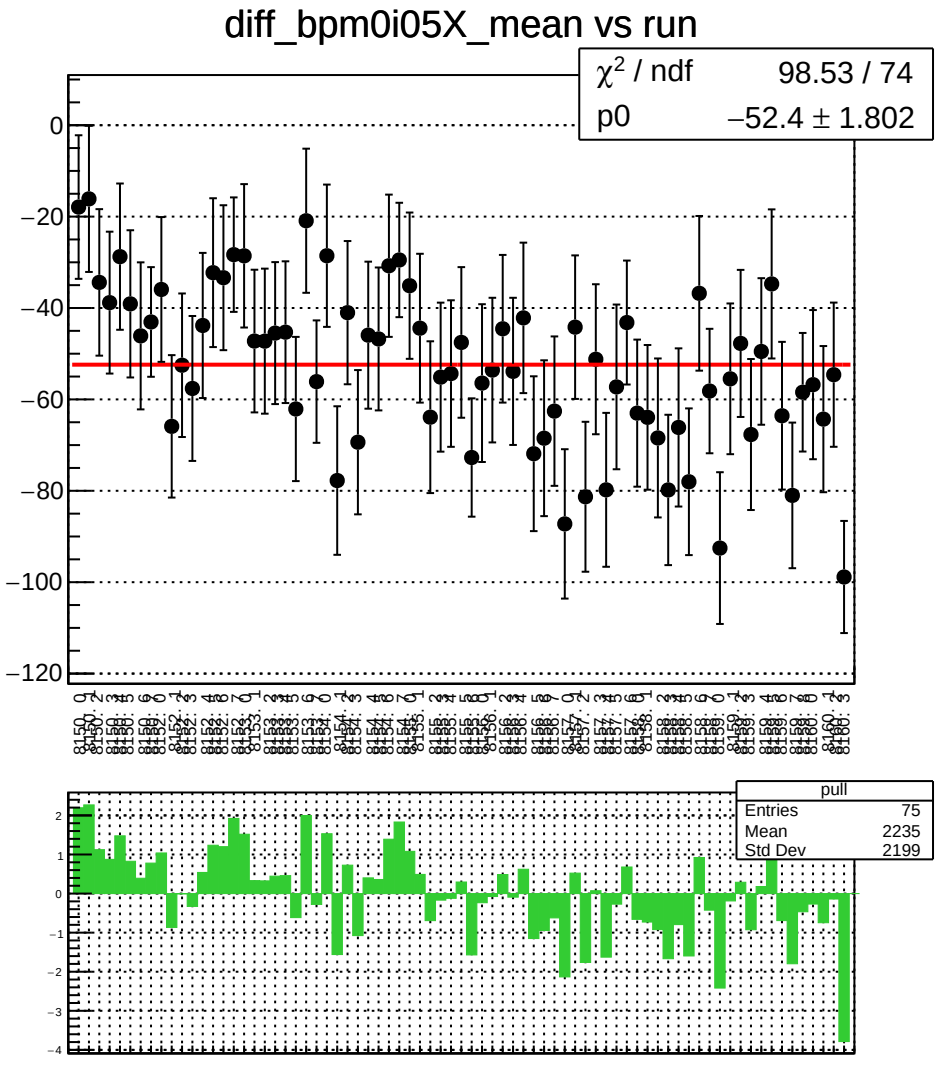

pull1D
Entries 75
Mean −0.002821
Std Dev 1.079

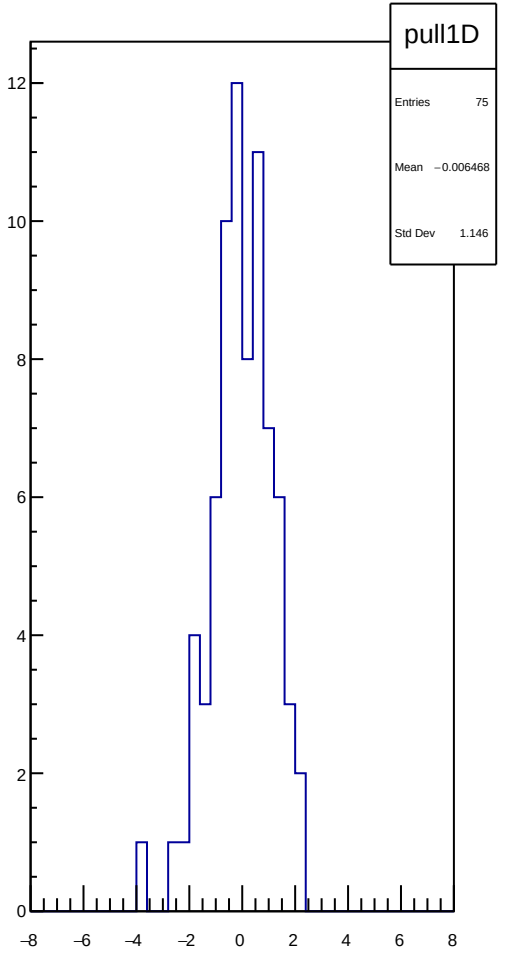

diff_bpm0i02aX_rms vs run
χ² / ndf 78.91 / 74
p0 1438 ± 1.197
1480
1470
1460
1450
1440
1430
1420
1410
1400

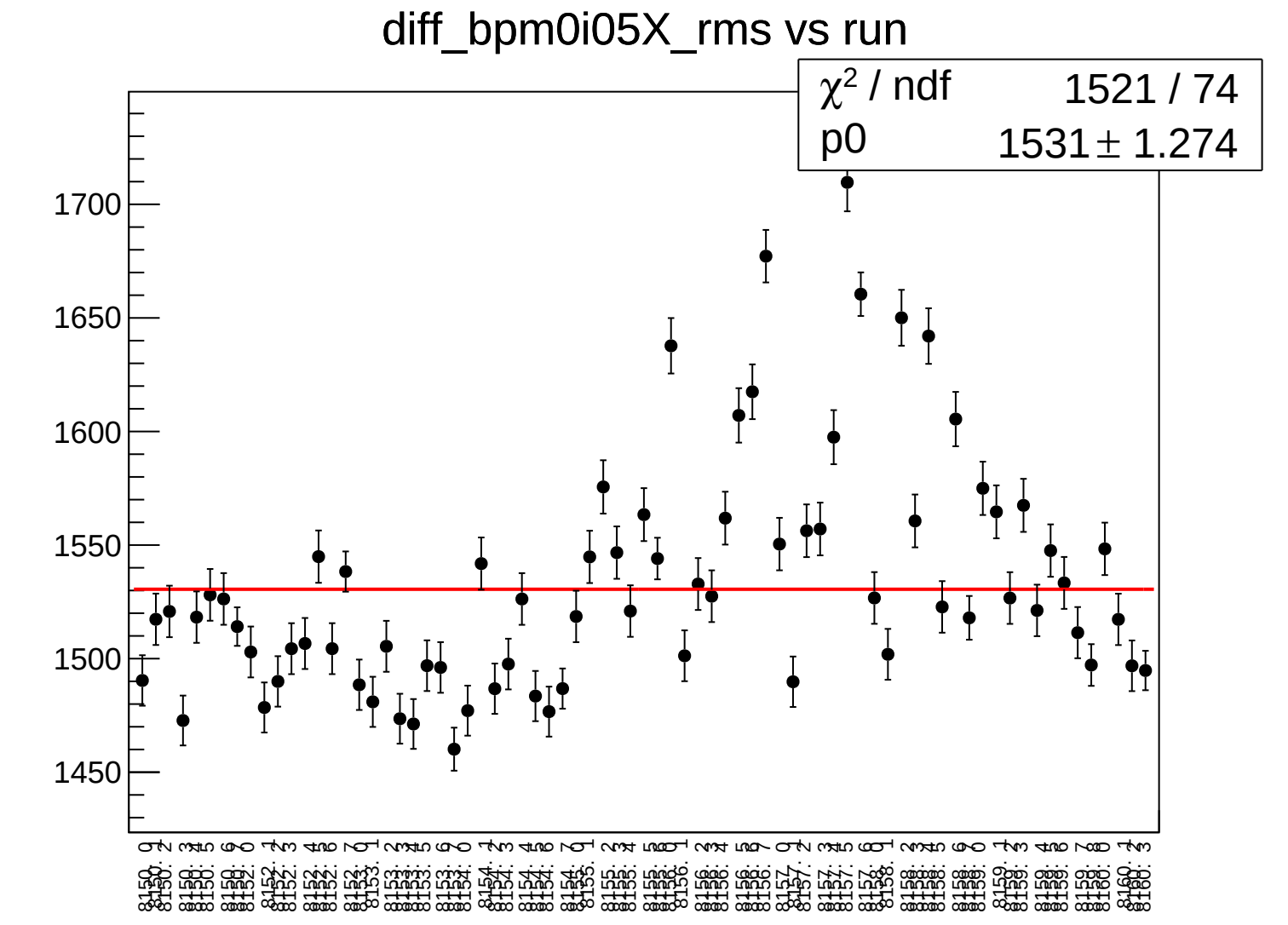

diff_bpm0i02aY_mean vs run
χ² / ndf 73.7 / 74
p0 183.5 ± 1.647
240
220
200
180
160
140
pull
Entries 75
Mean 489.2
Std Dev 445.9
3
2
1
0
−1
−2

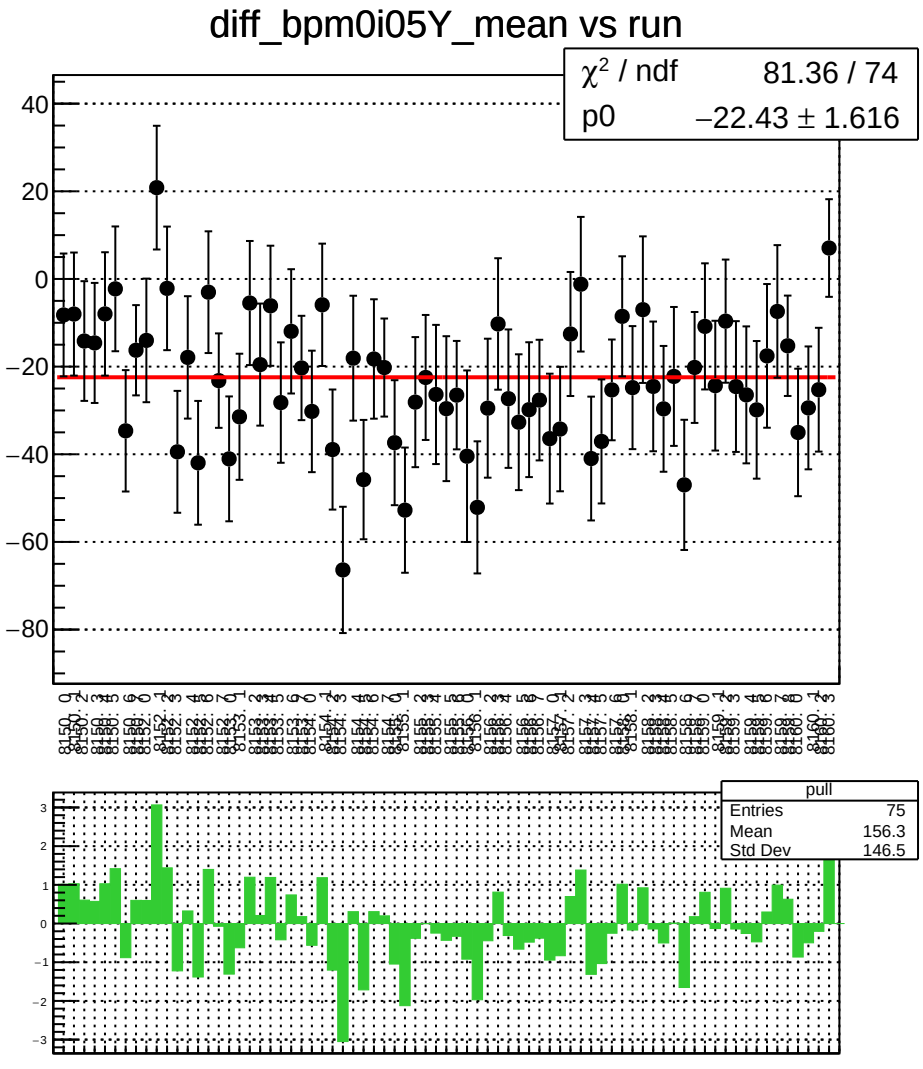

pull1D
Entries 75
Mean 0.007412
Std Dev 0.9913
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

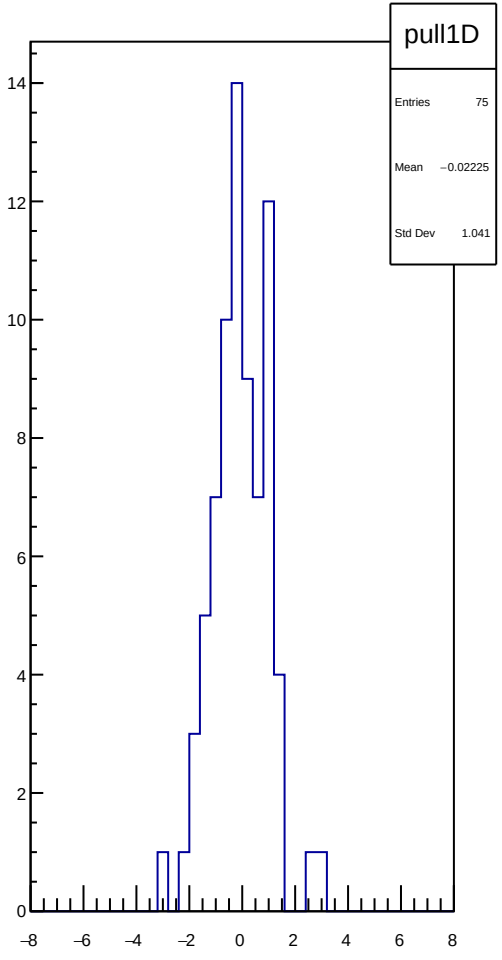

diff_bpm0i02aY_rms vs run
χ^2 / ndf 116.5 / 74
p0 1399 ± 1.164
1440
1430
1420
1410
1400
1390
1380
1370
1360

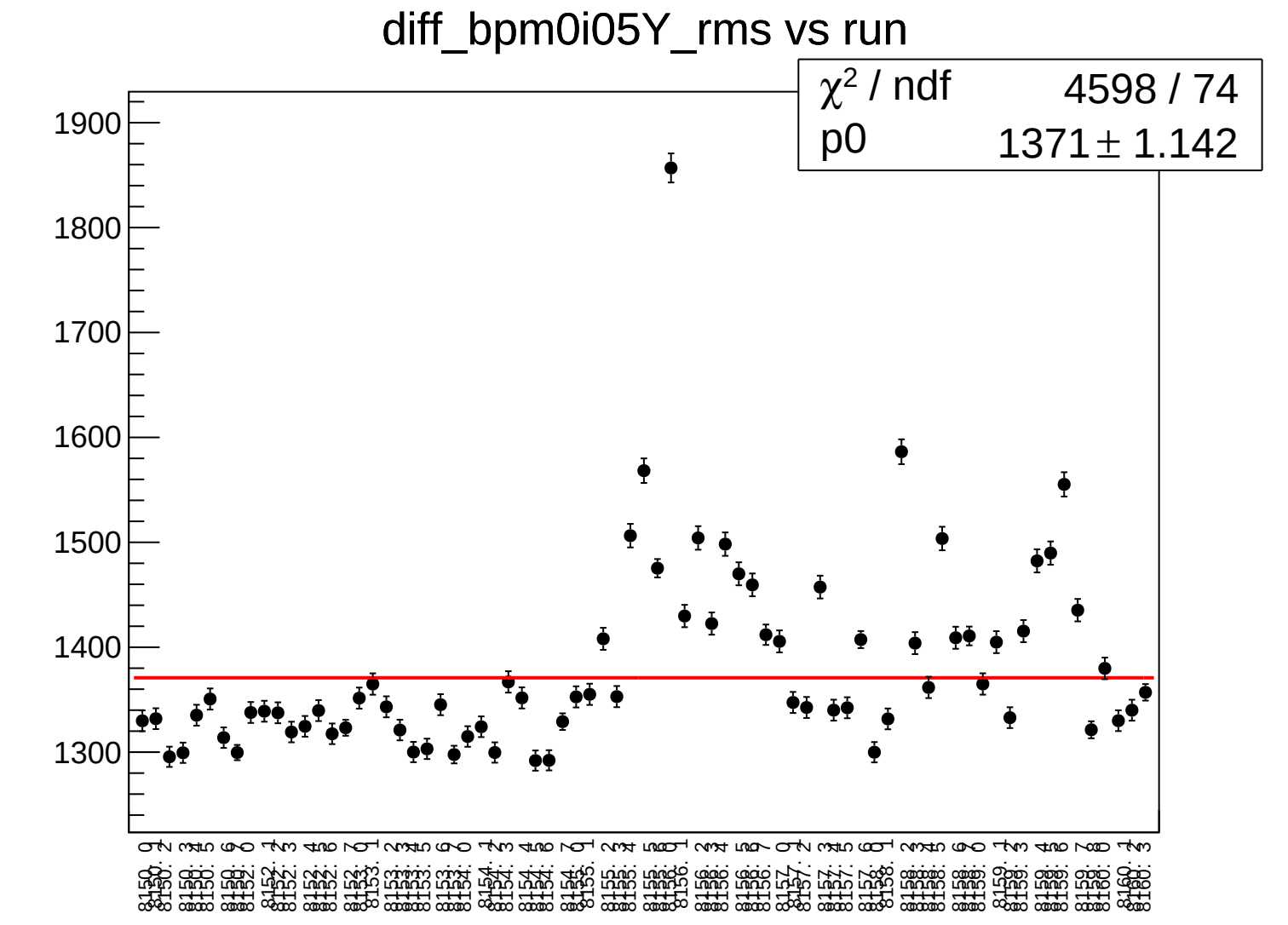

diff_bpm0i05X_mean vs run
χ² / ndf 98.53 / 74
p0 −52.4 ± 1.802
pull
Entries 75
Mean 2235
Std Dev 2199

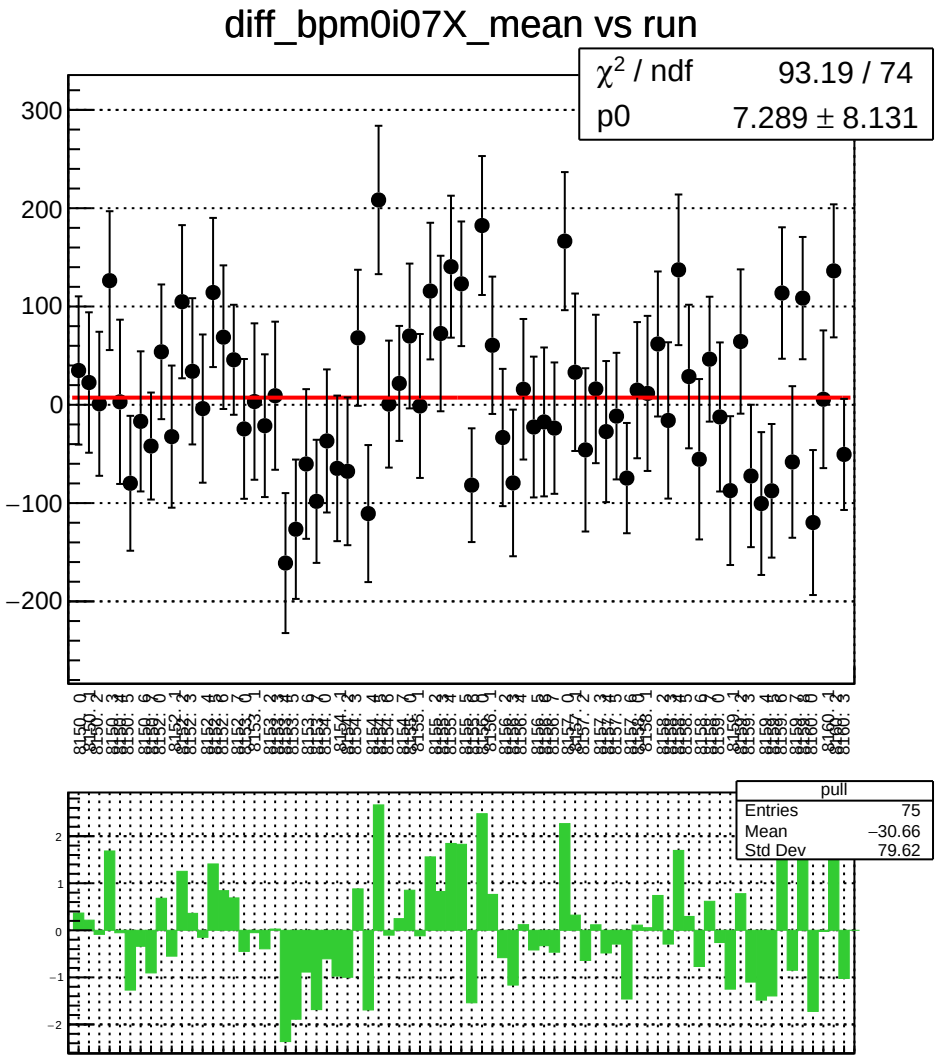

pull1D
Entries 75
Mean −0.006468
Std Dev 1.146

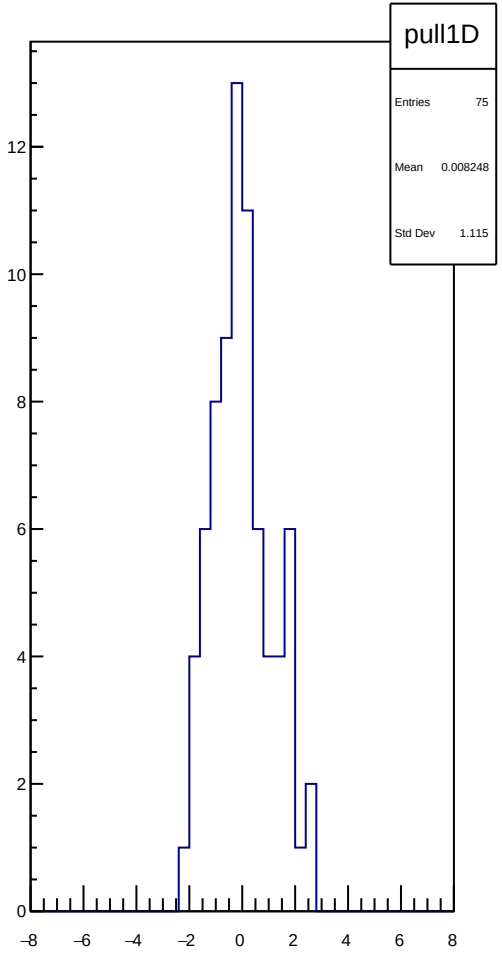

diff_bpm0i05X_rms vs run
χ² / ndf 1521 / 74
p0 1531 ± 1.274
1700
1650
1600
1550
1500
1450

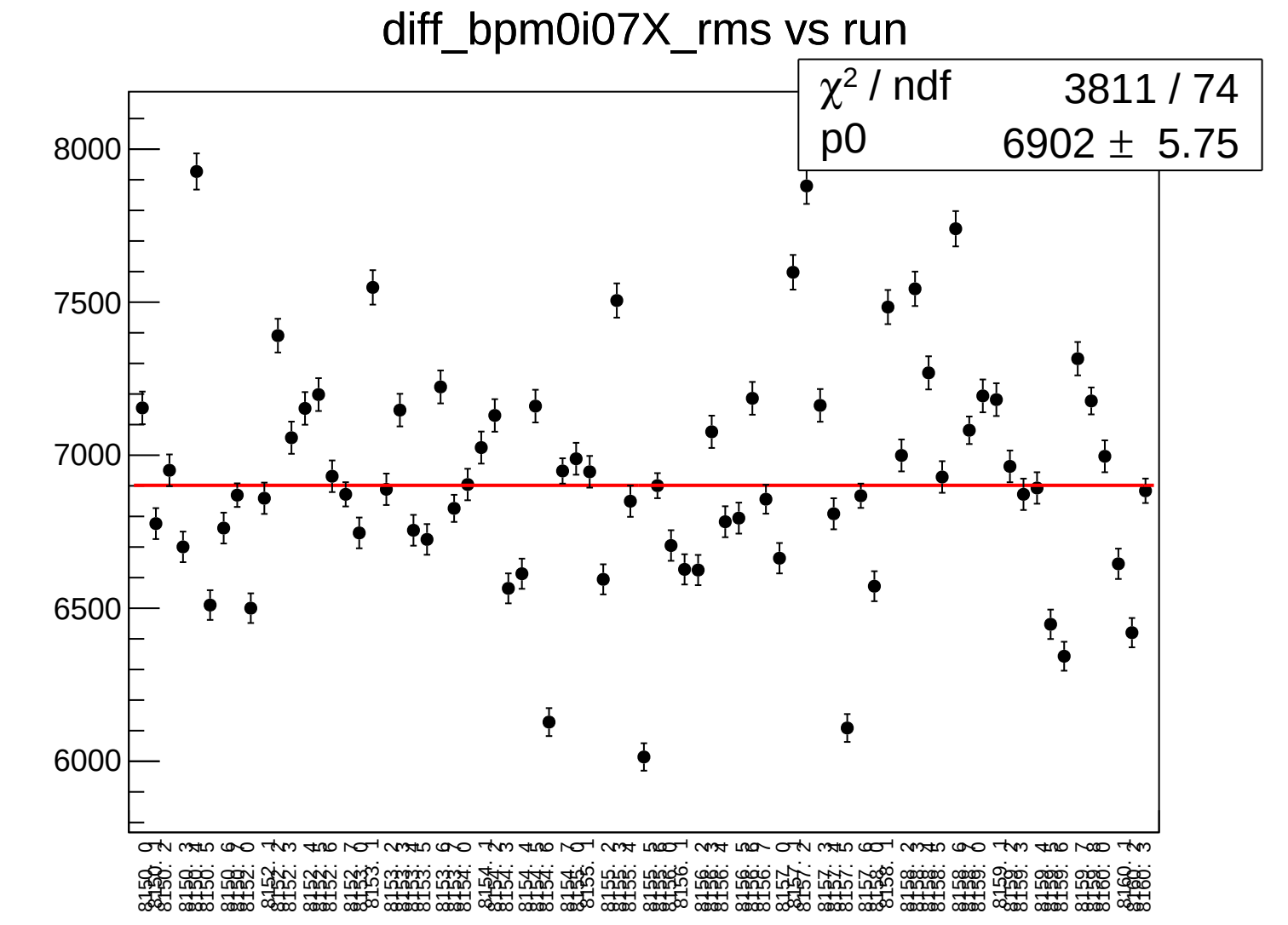

diff_bpm0i05Y_mean vs run
χ² / ndf 81.36 / 74
p0 −22.43 ± 1.616
pull
Entries 75
Mean 156.3
Std Dev 146.5

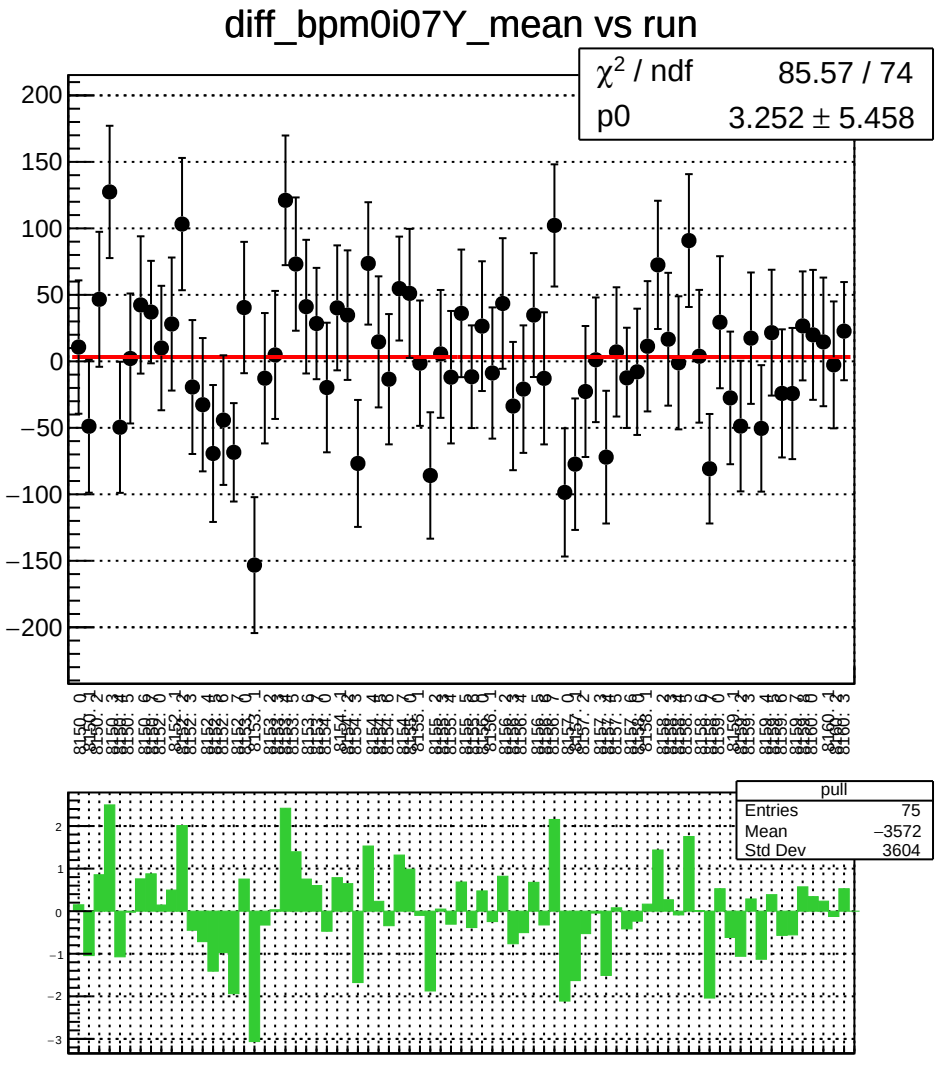

pull1D
Entries 75
Mean −0.02225
Std Dev 1.041

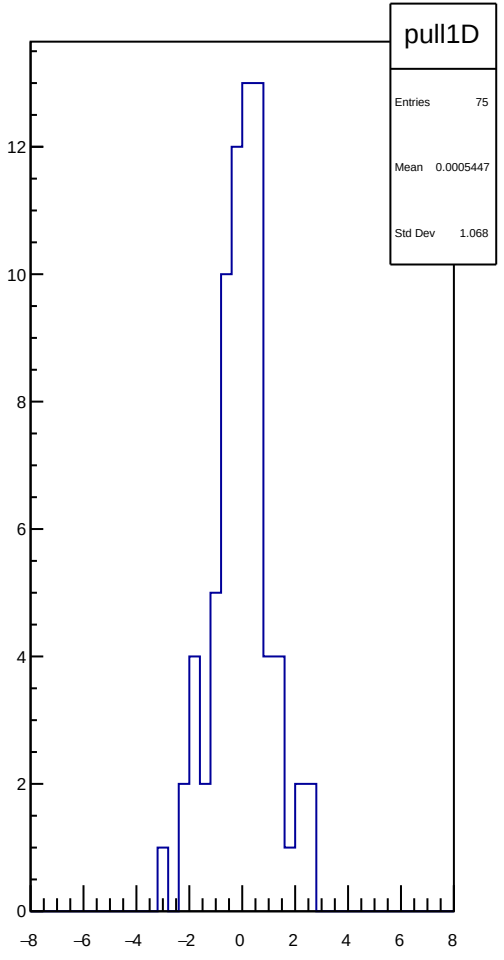

diff_bpm0i05Y_rms vs run
χ² / ndf 4598 / 74
p0 1371 ± 1.142
1900
1800
1700
1600
1500
1400
1300

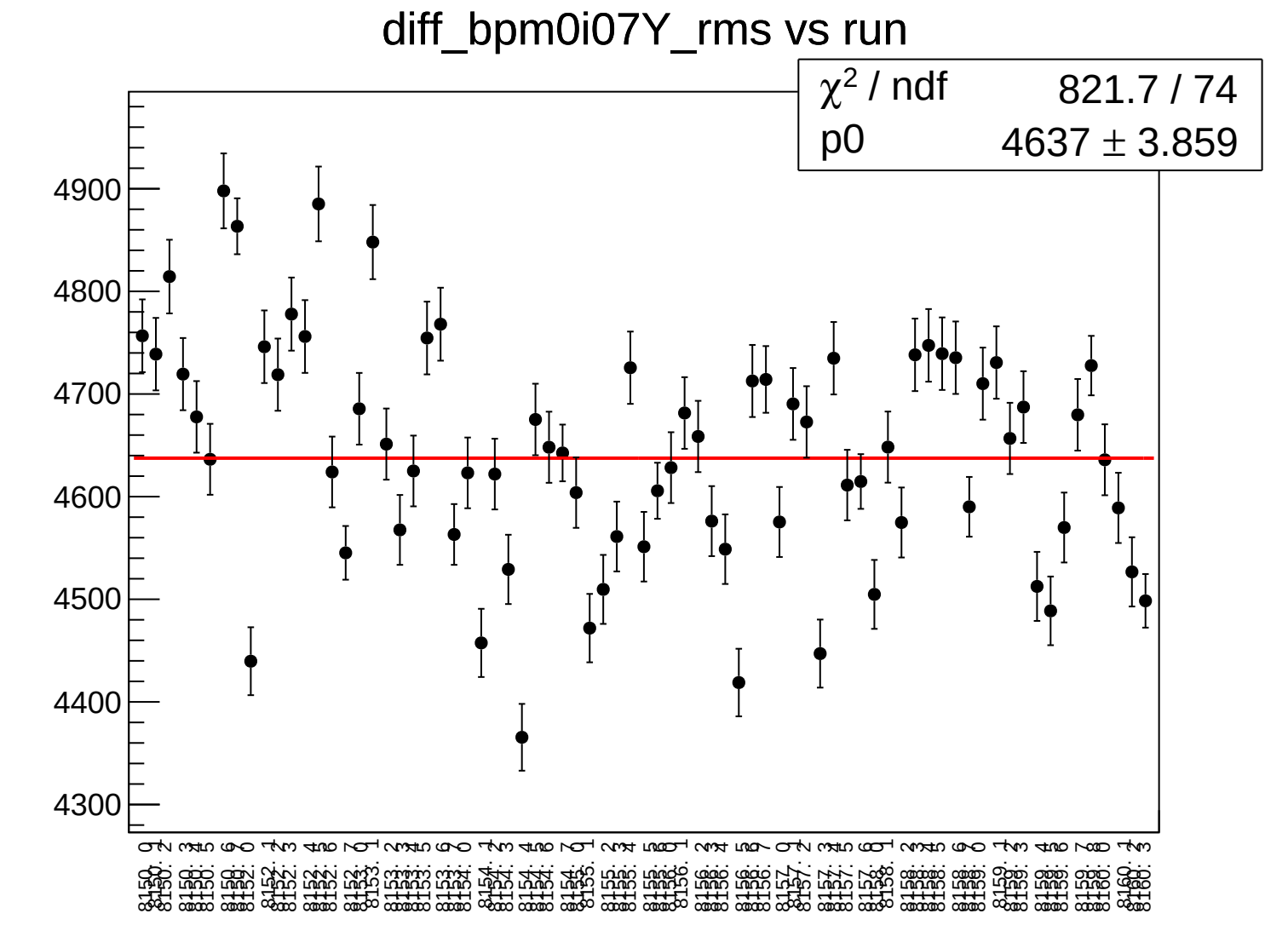

diff_bpm0i07X_mean vs run
χ² / ndf 93.19 / 74
p0 7.289 ± 8.131
pull
Entries 75
Mean −30.66
Std Dev 79.62

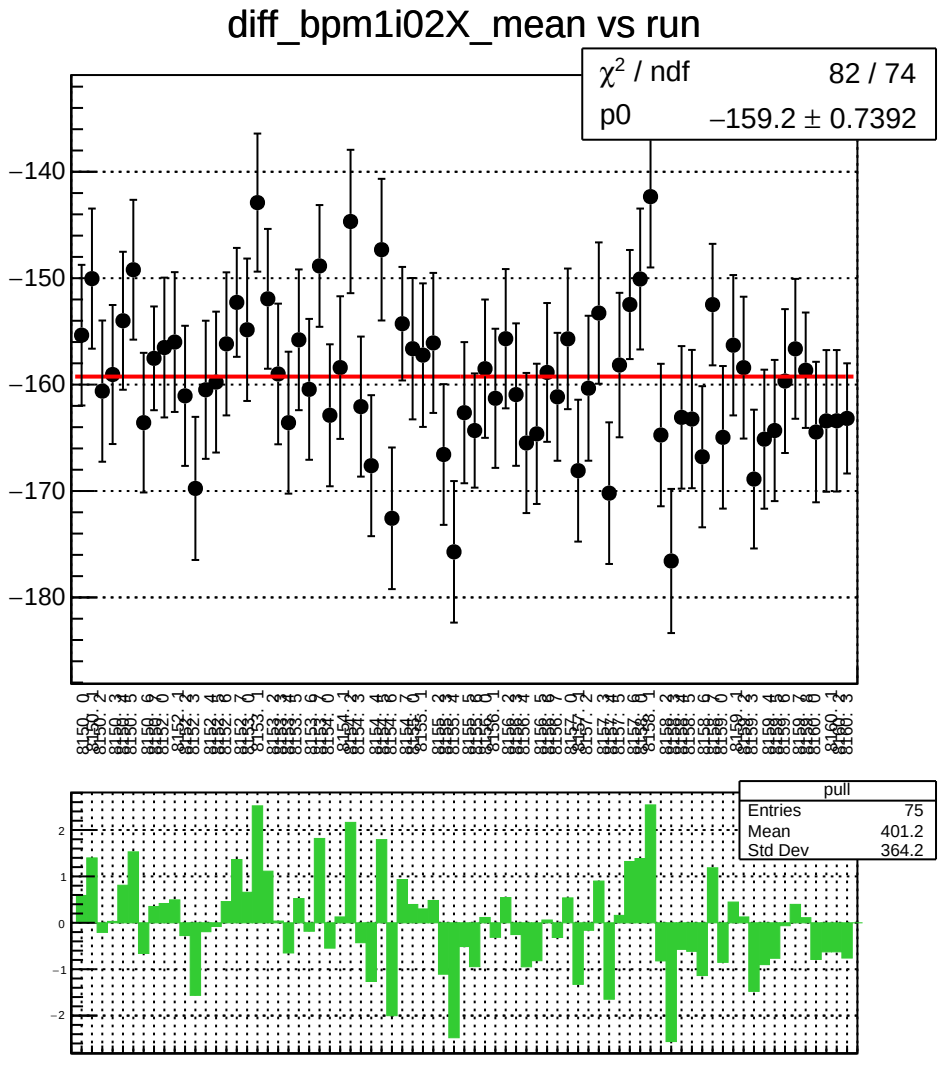

pull1D
Entries 75
Mean 0.008248
Std Dev 1.115

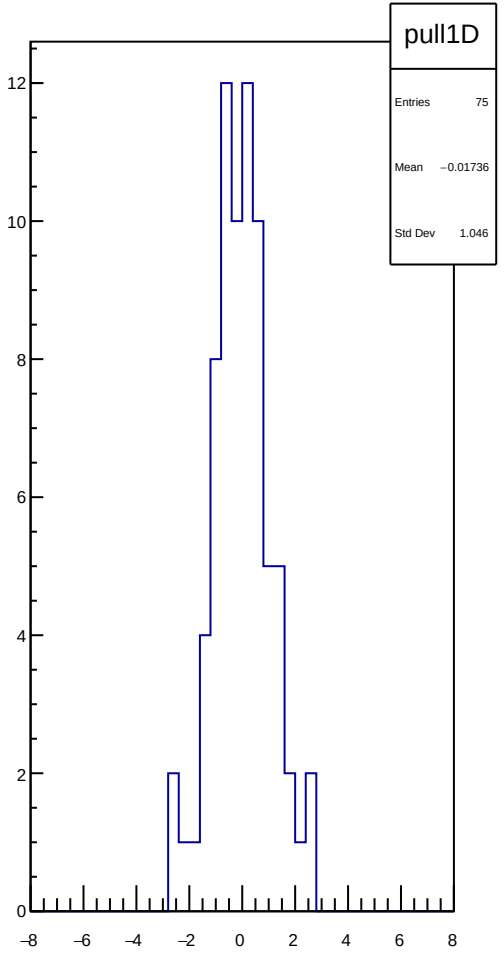

diff_bpm0i07X_rms vs run
χ² / ndf 3811 / 74
p0 6902 ± 5.75
8000
7500
7000
6500
6000

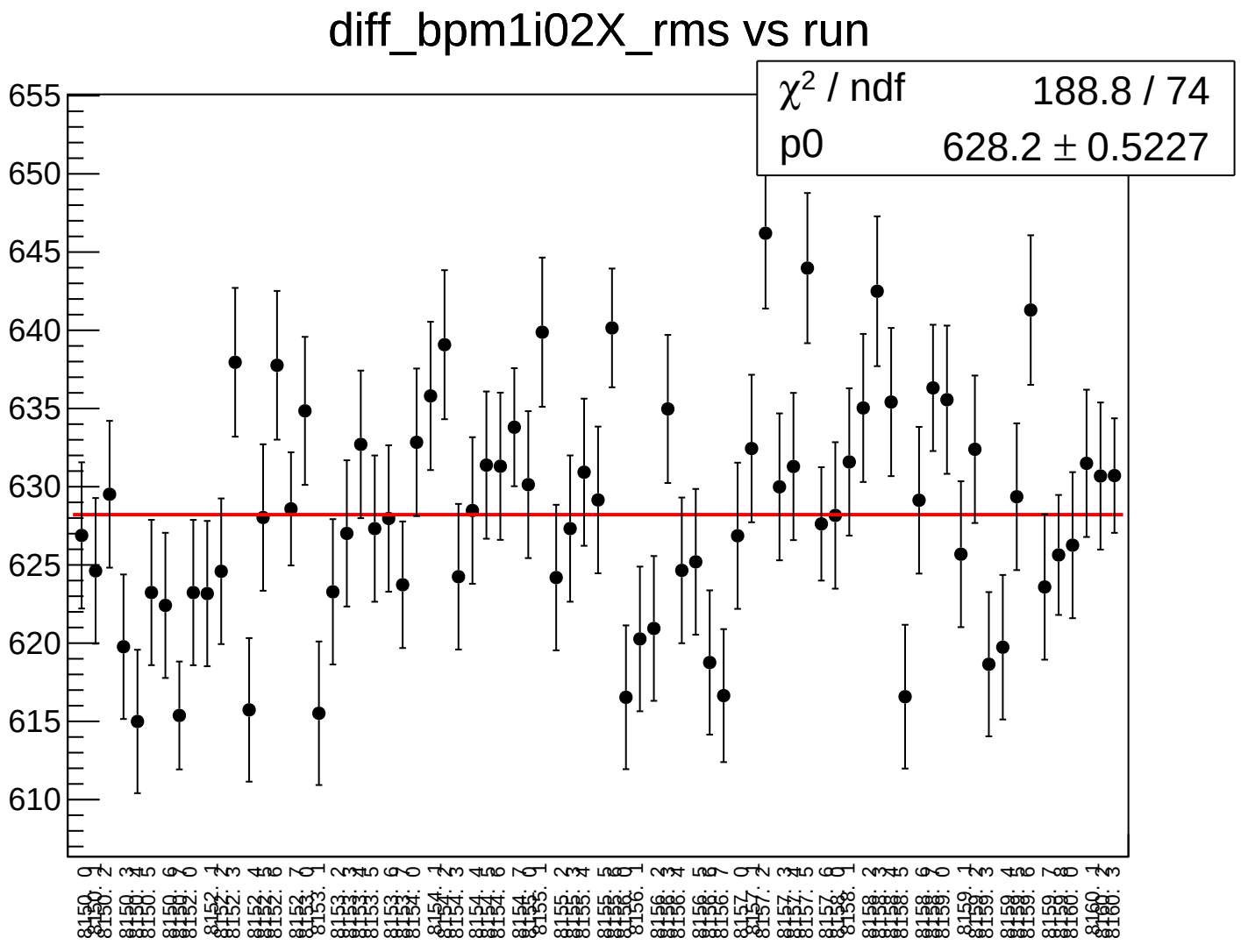

diff_bpm0i07Y_mean vs run
χ² / ndf 85.57 / 74
p0 3.252 ± 5.458
pull
Entries 75
Mean −3572
Std Dev 3604

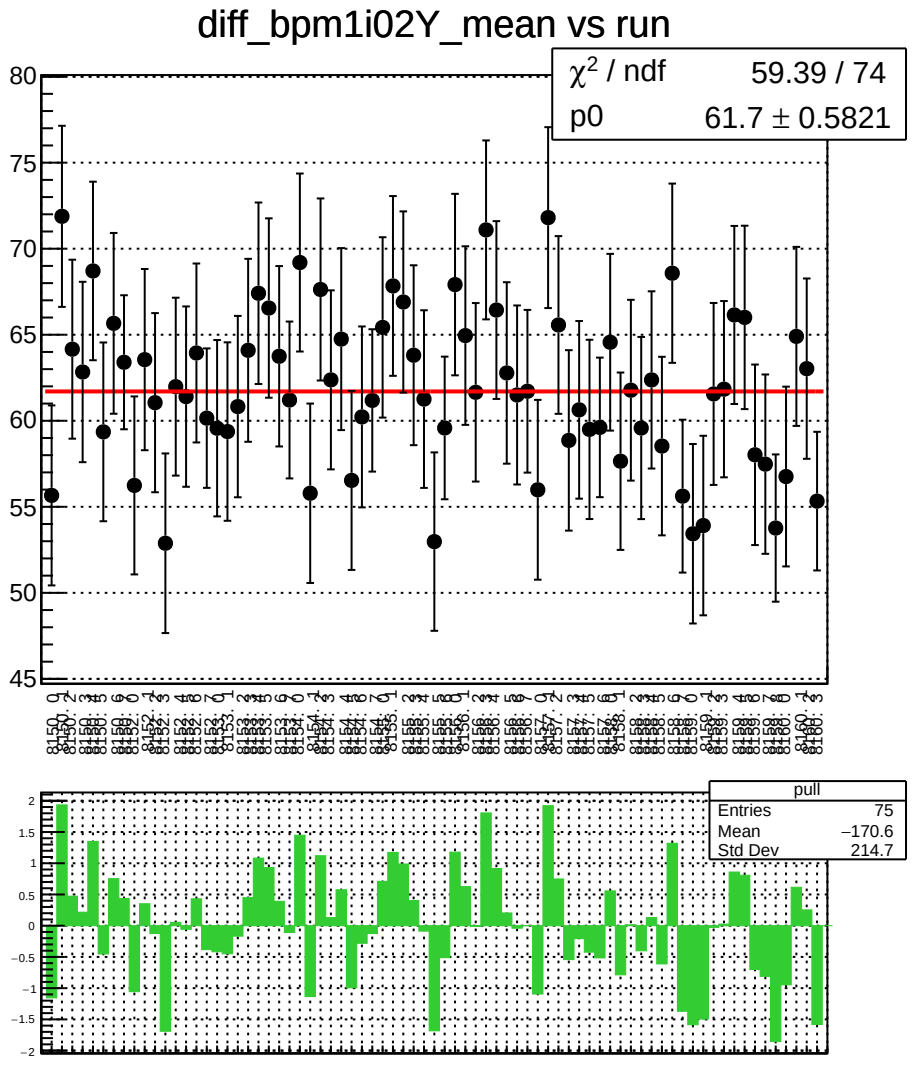

pull1D
Entries 75
Mean 0.0005447
Std Dev 1.068

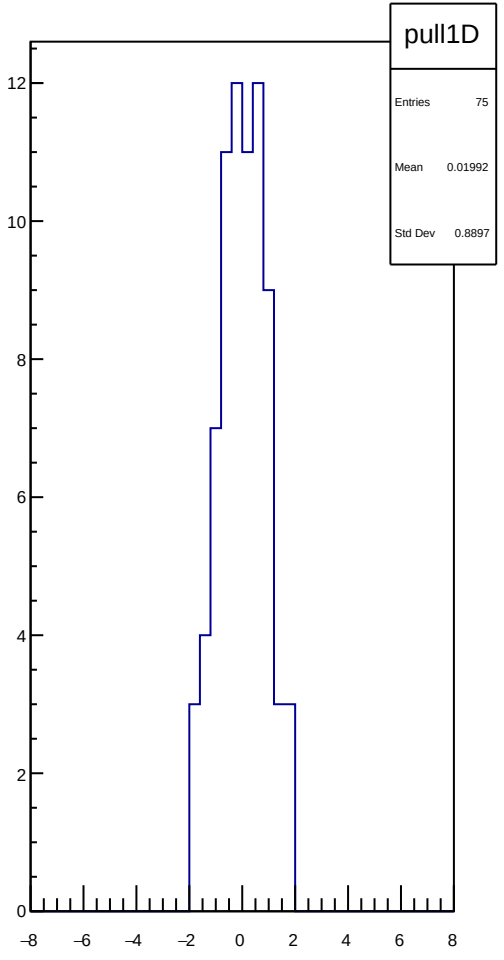

diff_bpm0i07Y_rms vs run
χ² / ndf 821.7 / 74
p0 4637 ± 3.859
4900
4800
4700
4600
4500
4400
4300

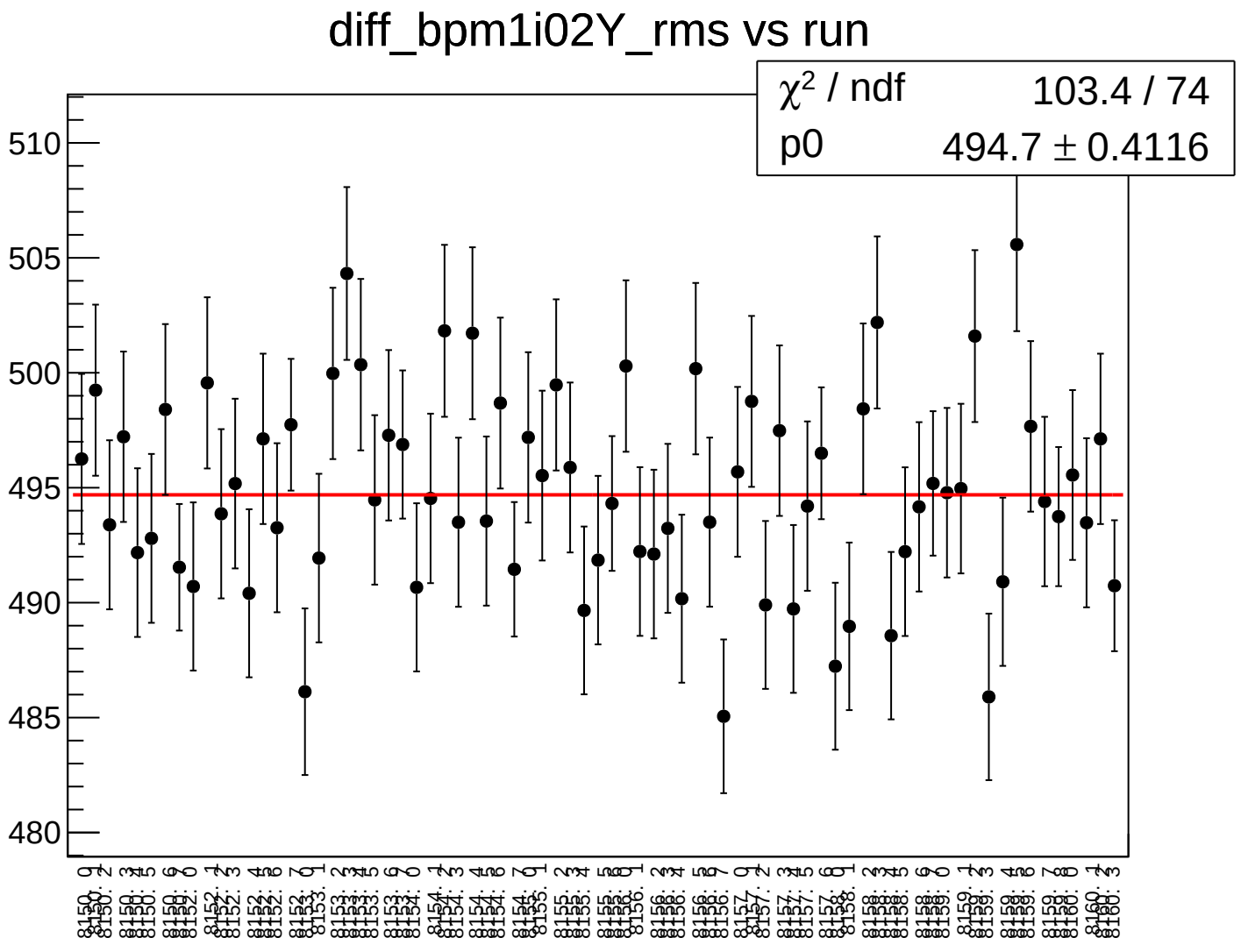

diff_bpm1i02X_mean vs run
χ² / ndf 82 / 74
p0 −159.2 ± 0.7392
−140
−150
−160
−170
−180
pull
Entries 75
Mean 401.2
Std Dev 364.2
2
1
0
−1
−2

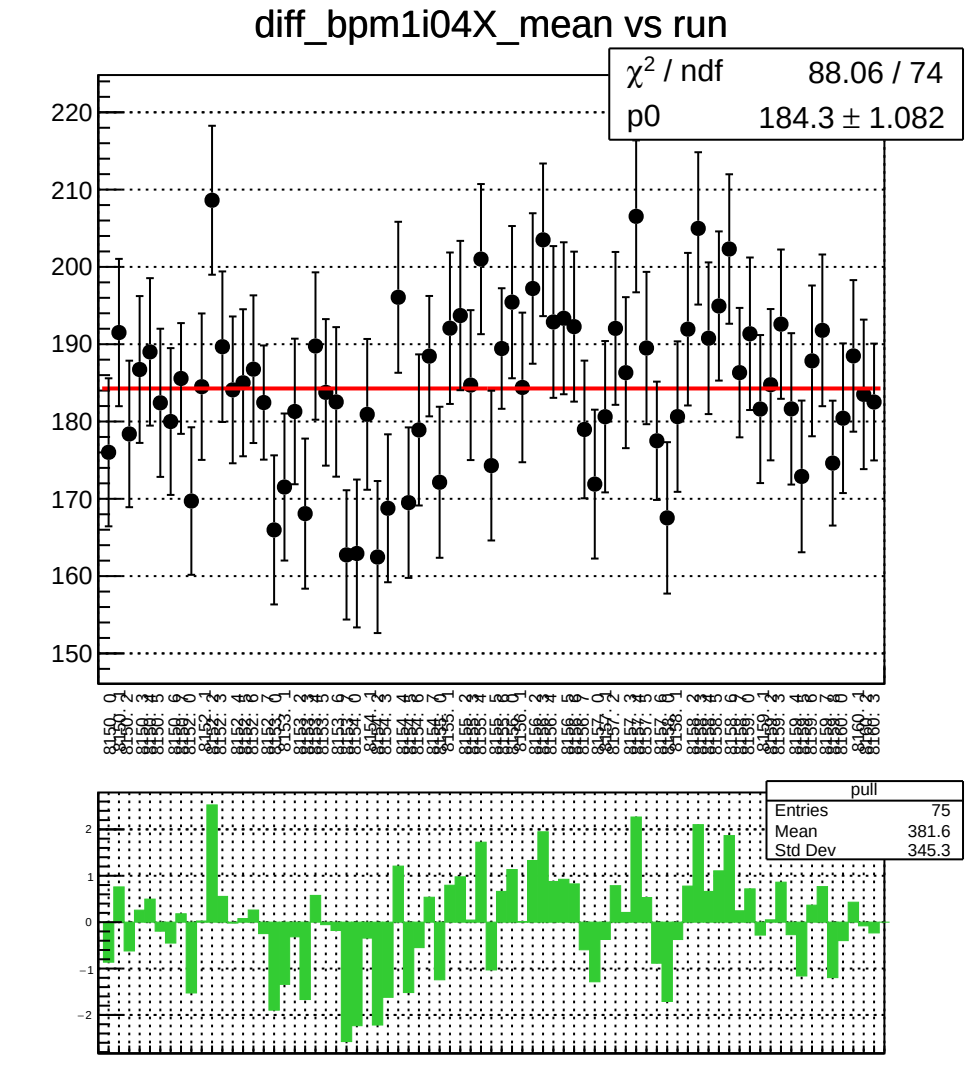

pull1D
Entries 75
Mean −0.01736
Std Dev 1.046
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

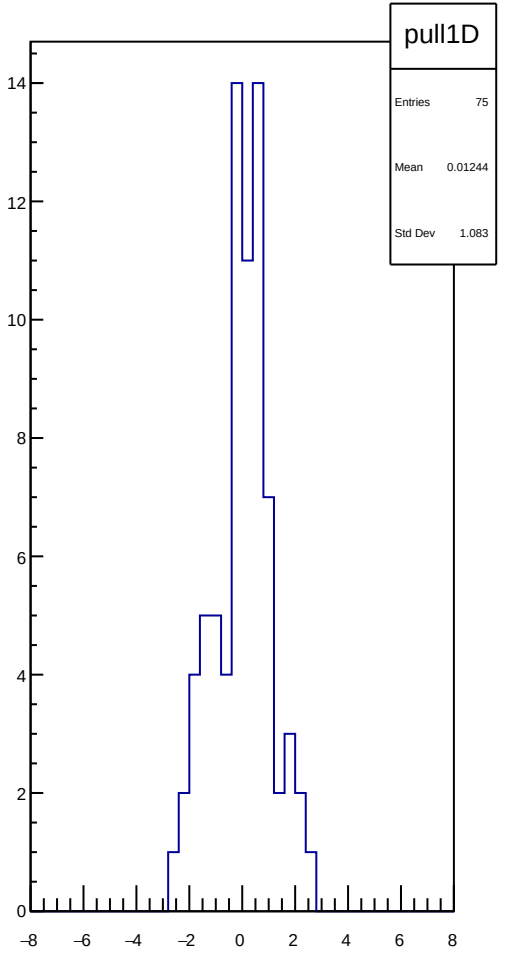

diff_bpm1i02X_rms vs run
χ² / ndf 188.8 / 74
p0 628.2 ± 0.5227
655
650
645
640
635
630
625
620
615
610

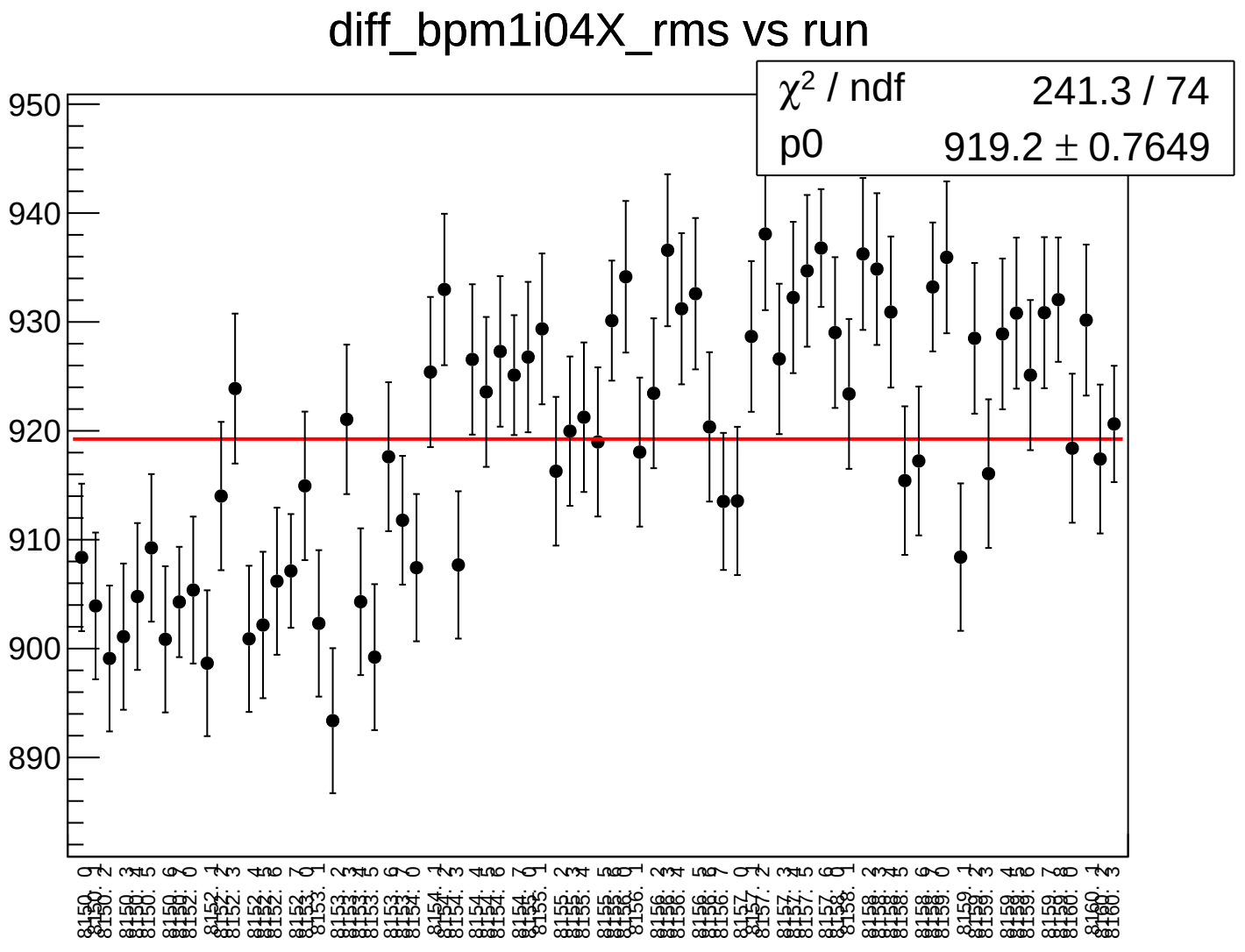

diff_bpm1i02Y_mean vs run
χ^2 / ndf 59.39 / 74
p0 61.7 ± 0.5821
pull
Entries 75
Mean −170.6
Std Dev 214.7

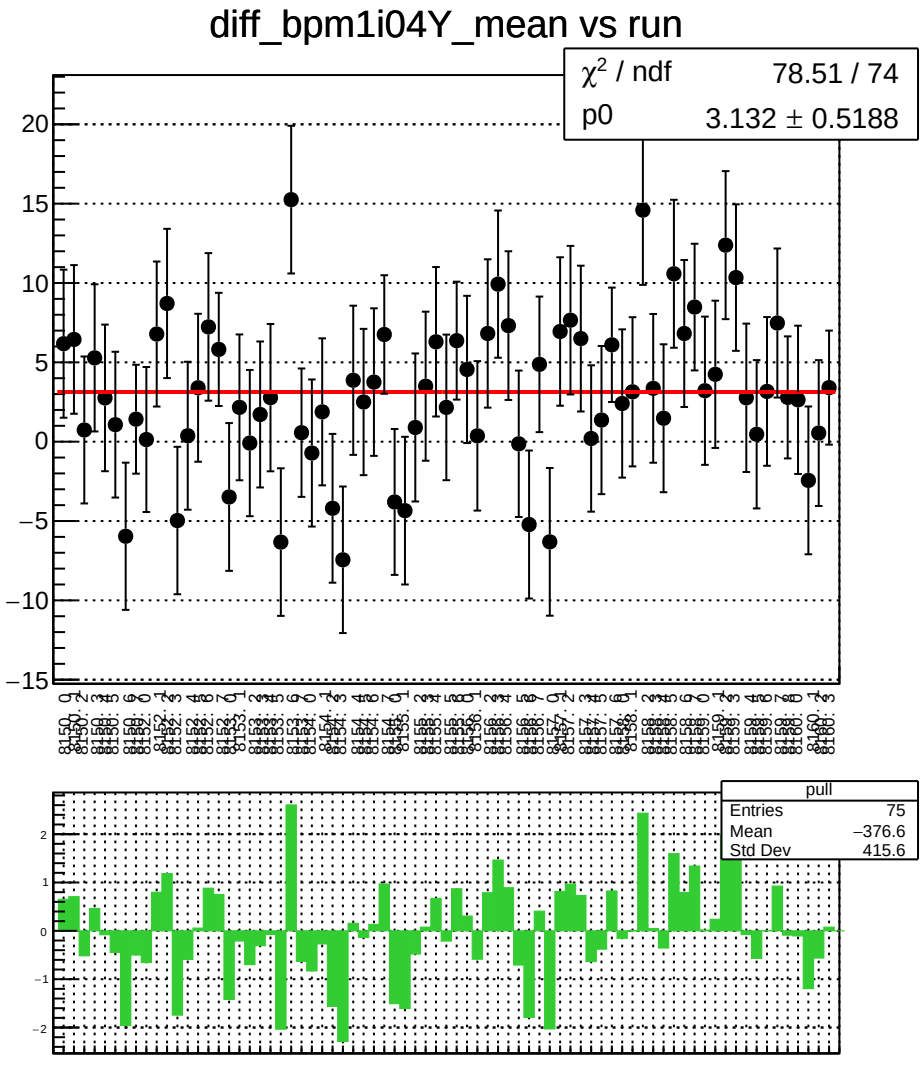

pull1D
Entries 75
Mean 0.01992
Std Dev 0.8897

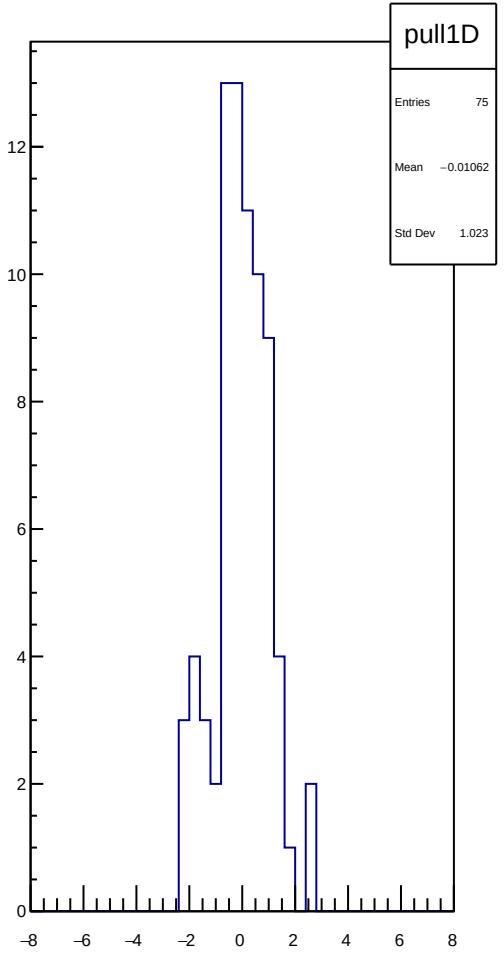

diff_bpm1i02Y_rms vs run
χ² / ndf 103.4 / 74
p0 494.7 ± 0.4116
510
505
500
495
490
485
480

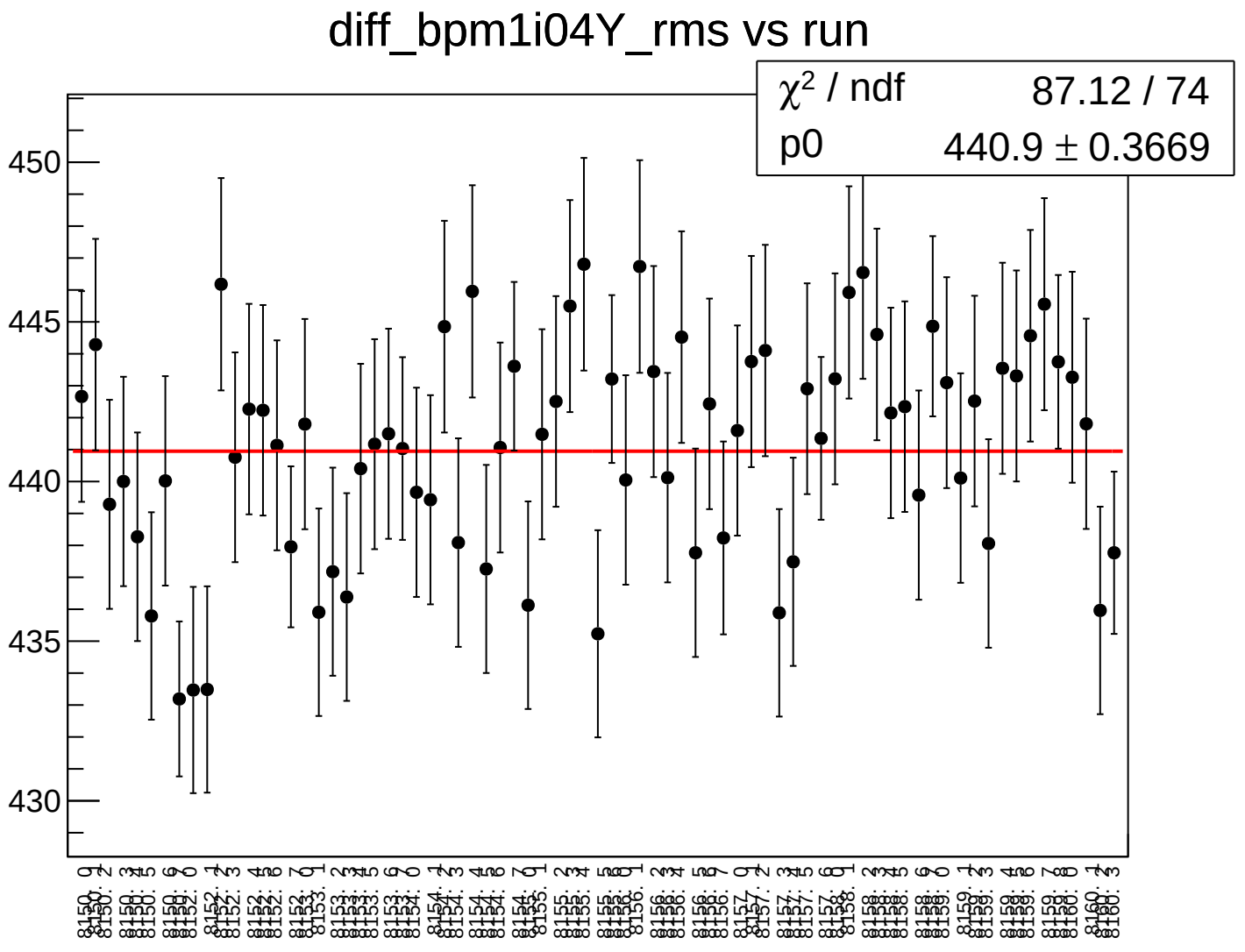

diff_bpm1i04X_mean vs run
χ^2 / ndf 88.06 / 74
p0 184.3 ± 1.082
pull
Entries 75
Mean 381.6
Std Dev 345.3

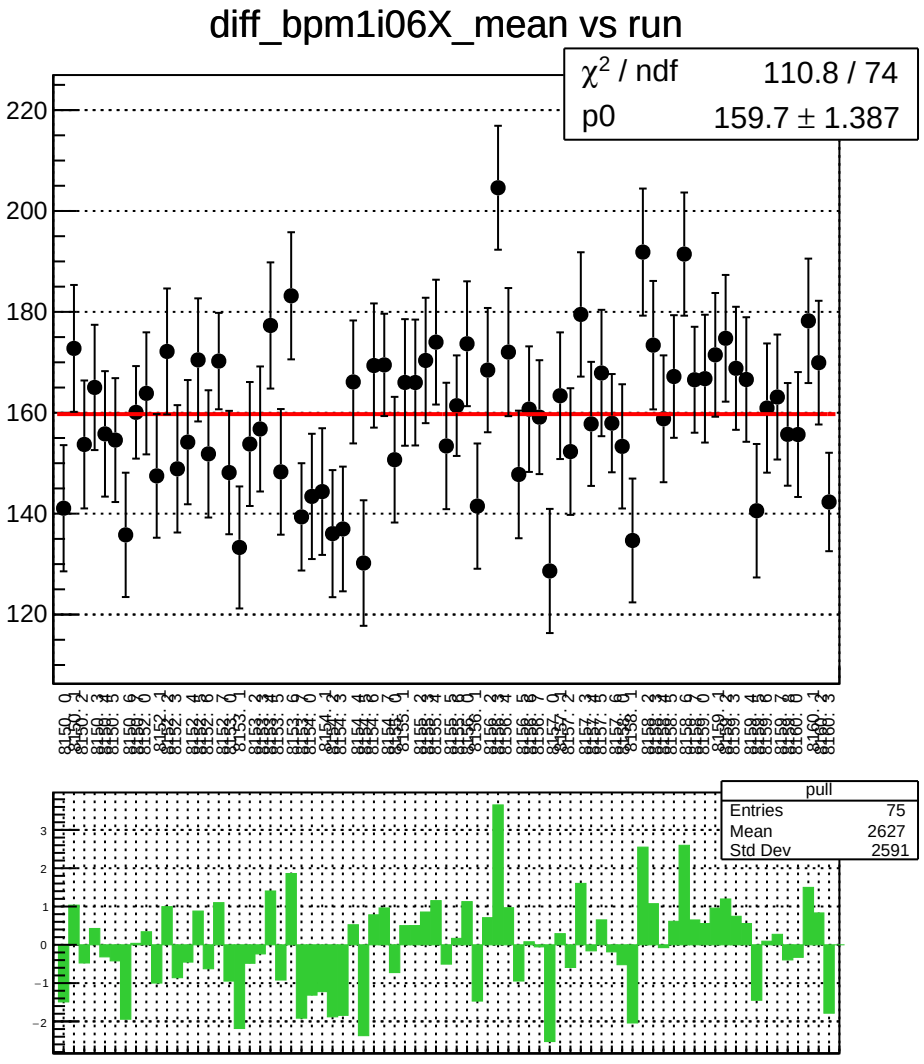

pull1D
Entries 75
Mean 0.01244
Std Dev 1.083

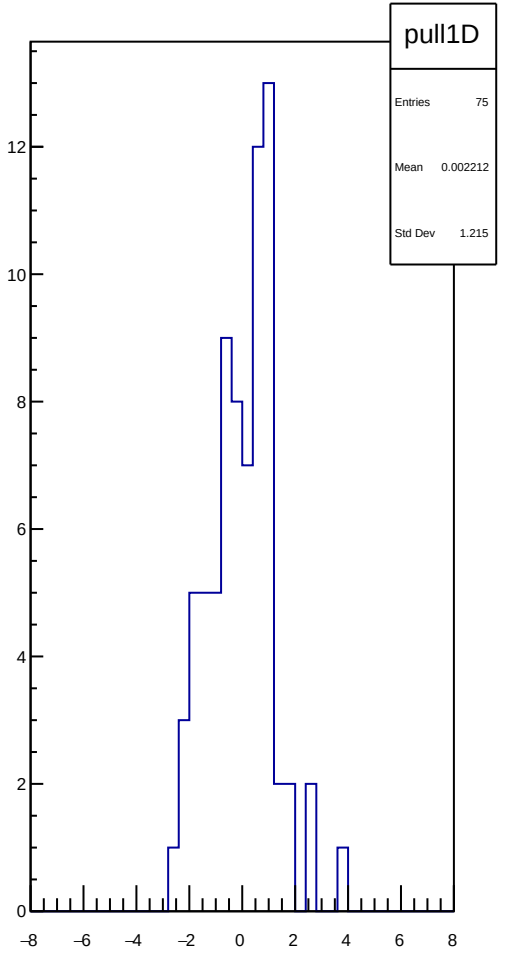

diff_bpm1i04X_rms vs run
χ² / ndf 241.3 / 74
p0 919.2 ± 0.7649
950
940
930
920
910
900
890

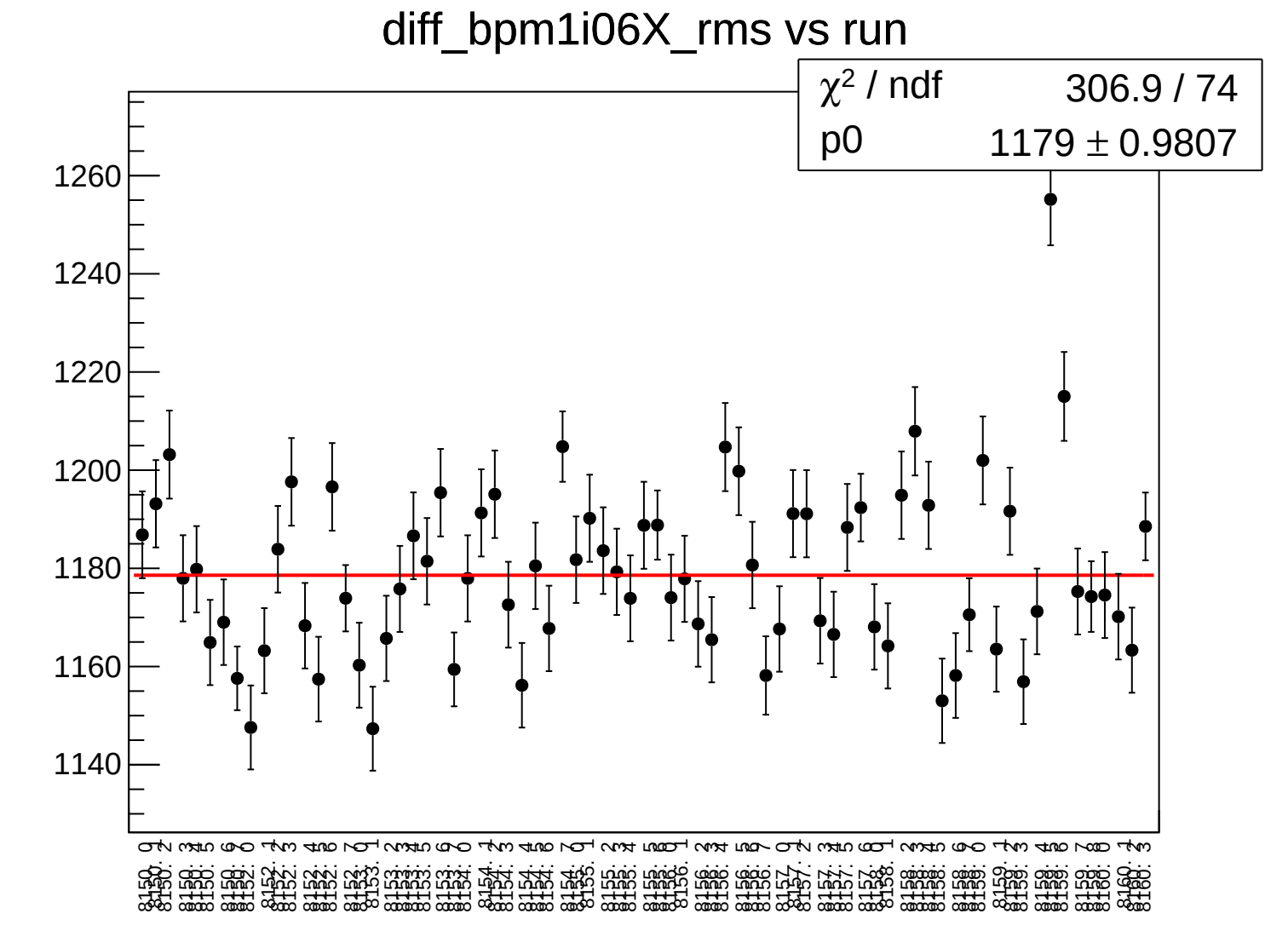

diff_bpm1i04Y_mean vs run
χ² / ndf 78.51 / 74
p0 3.132 ± 0.5188
pull
Entries 75
Mean −376.6
Std Dev 415.6

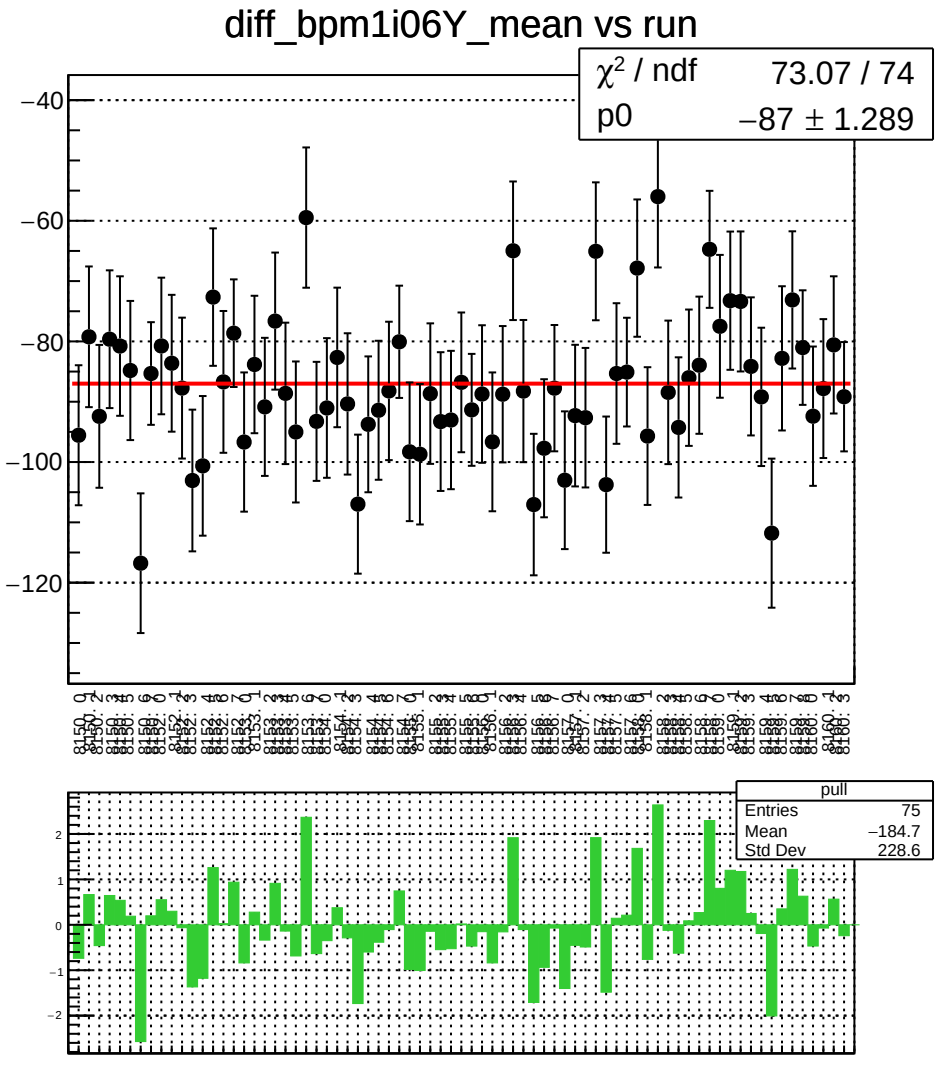

pull1D
Entries 75
Mean −0.01062
Std Dev 1.023

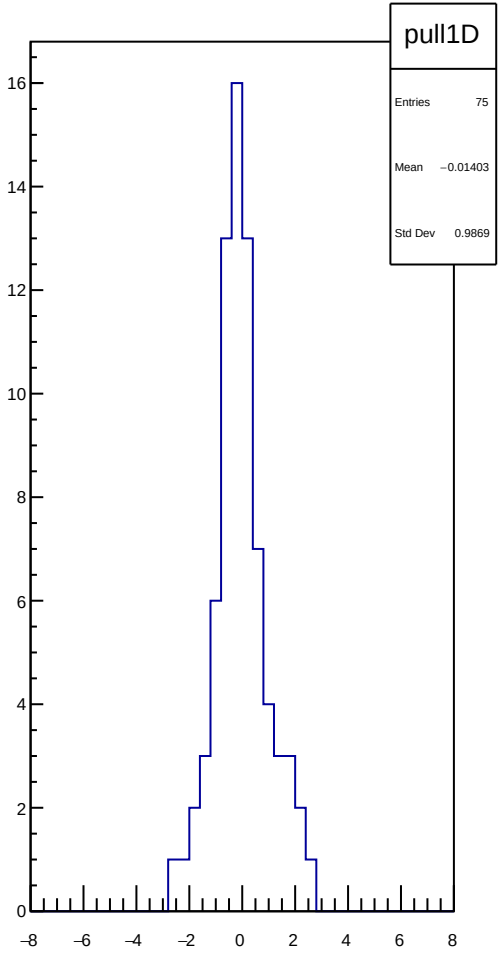

diff_bpm1i04Y_rms vs run
χ² / ndf 87.12 / 74
p0 440.9 ± 0.3669
450
445
440
435
430

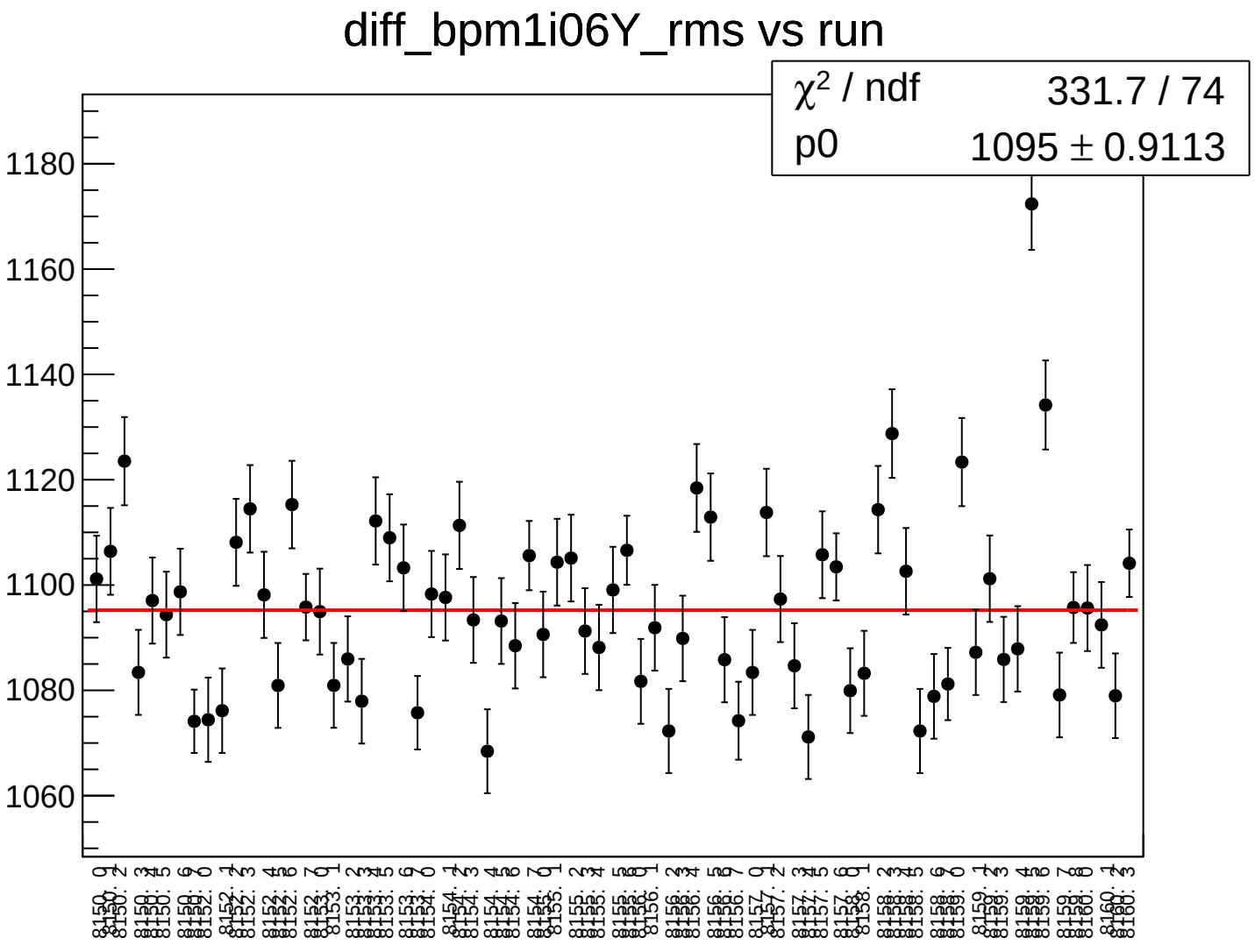

diff_bpm1i06X_mean vs run
χ^2 / ndf 110.8 / 74
p0 159.7 ± 1.387
220
200
180
160
140
120
pull
Entries 75
Mean 2627
Std Dev 2591
3
2
1
0
−1
−2

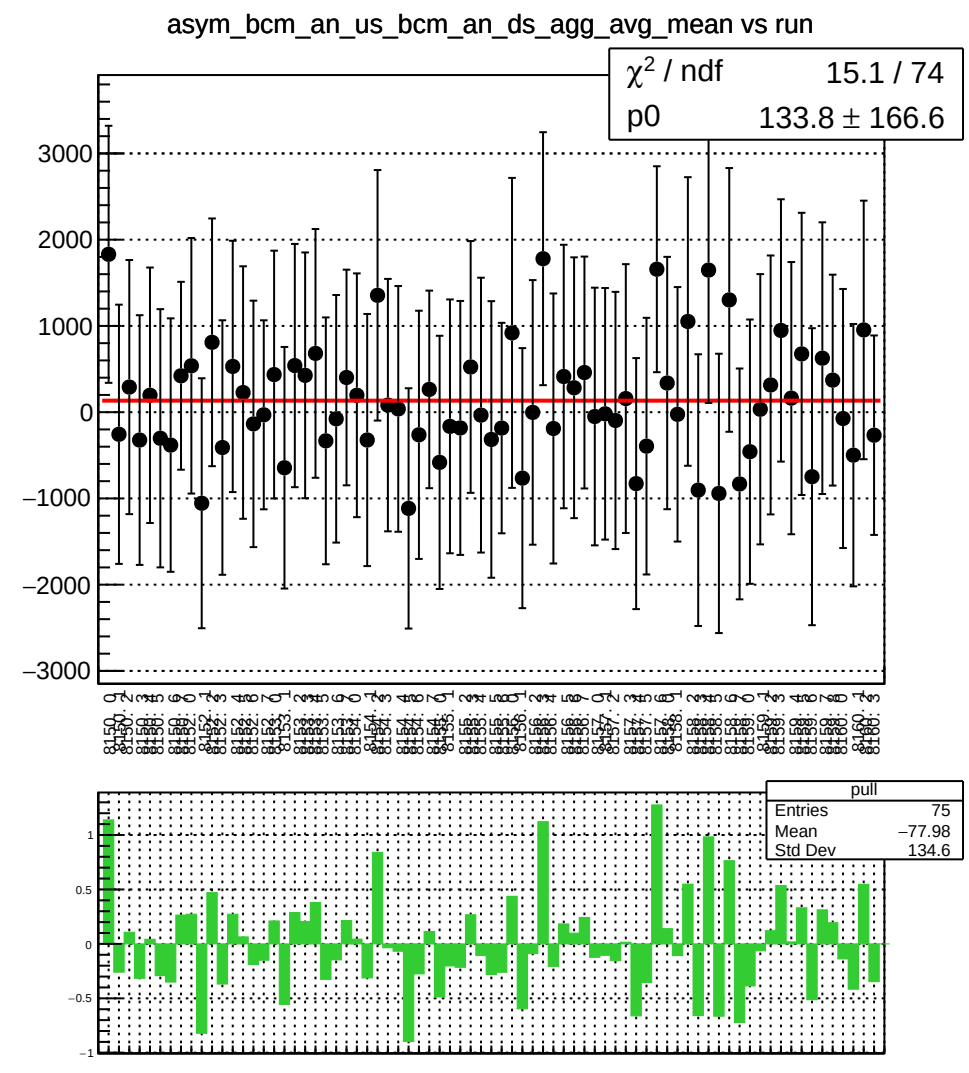

pull1D
Entries 75
Mean 0.002212
Std Dev 1.215
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

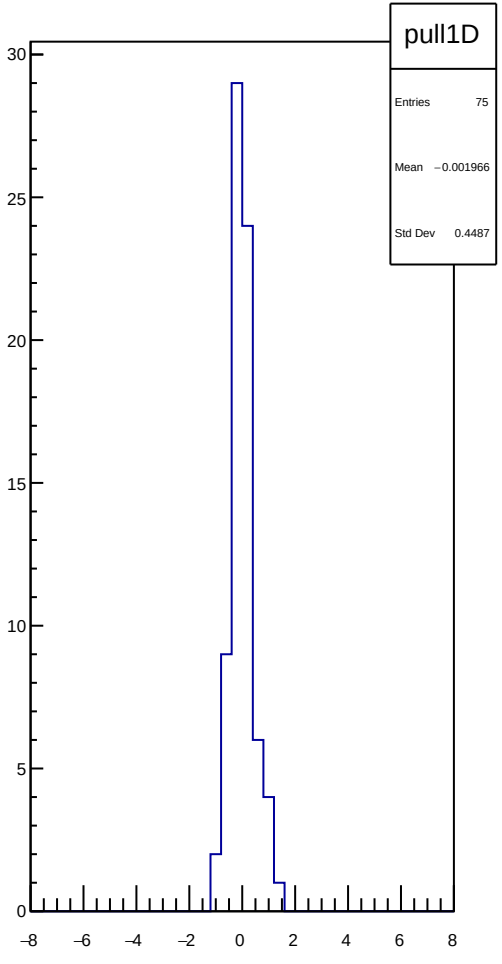

diff_bpm1i06X_rms vs run
χ² / ndf 306.9 / 74
p0 1179 ± 0.9807
1260
1240
1220
1200
1180
1160
1140

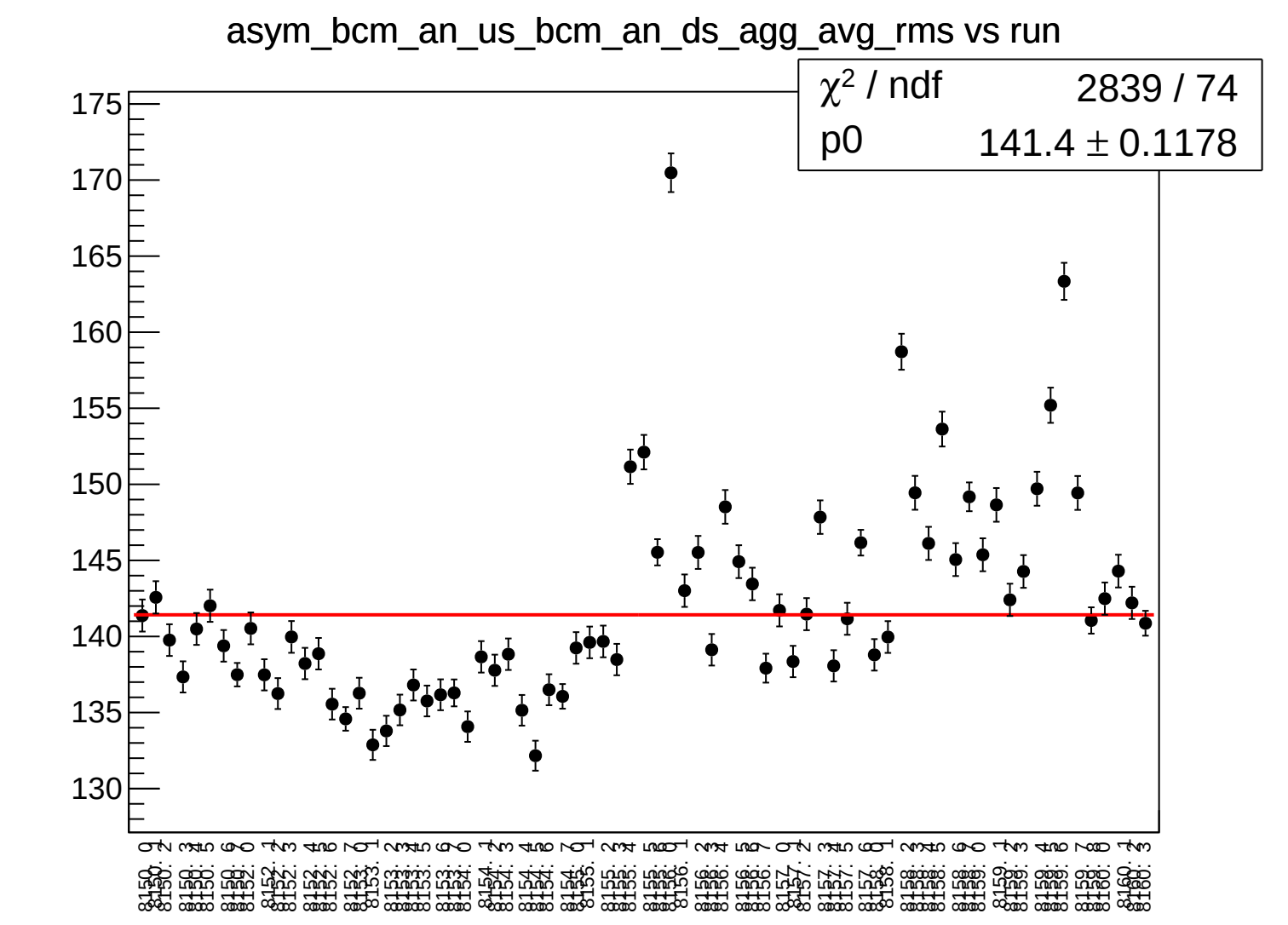

diff_bpm1i06Y_mean vs run
χ² / ndf 73.07 / 74
p0 −87 ± 1.289
pull
Entries 75
Mean −184.7
Std Dev 228.6

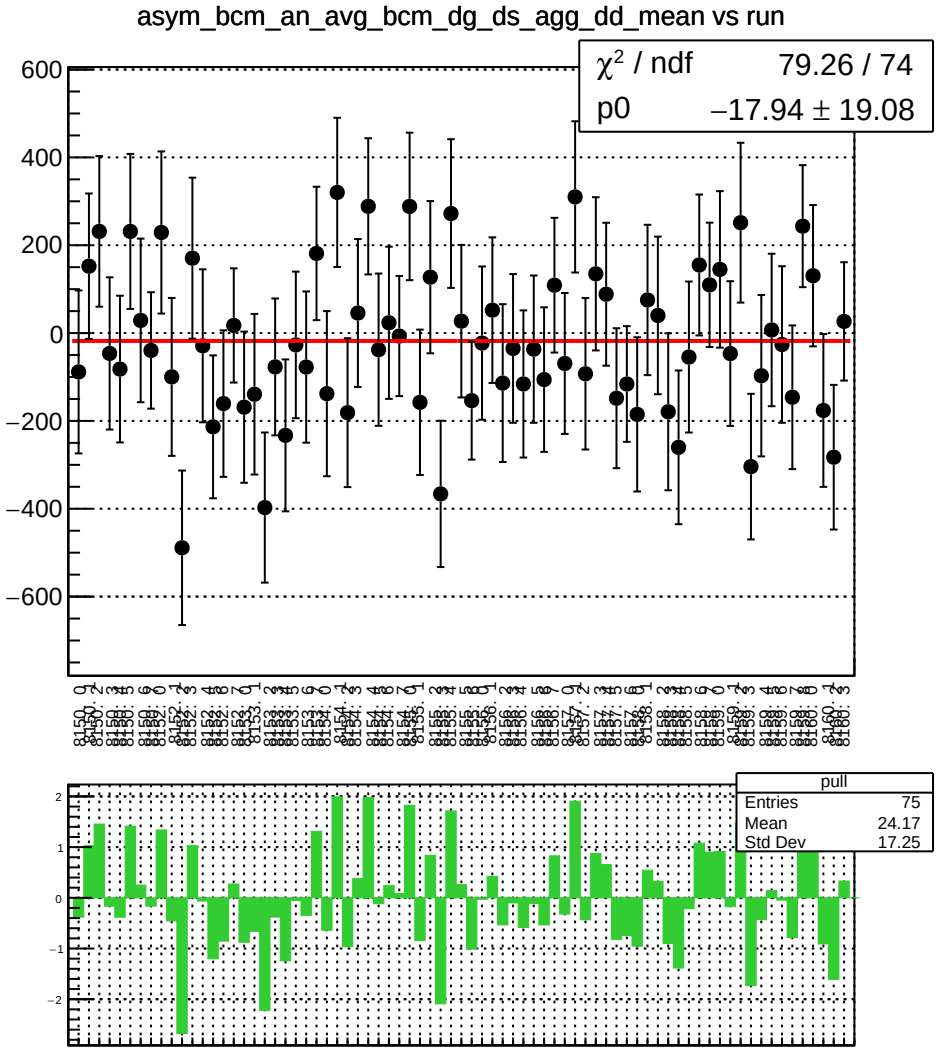

pull1D
Entries 75
Mean −0.01403
Std Dev 0.9869

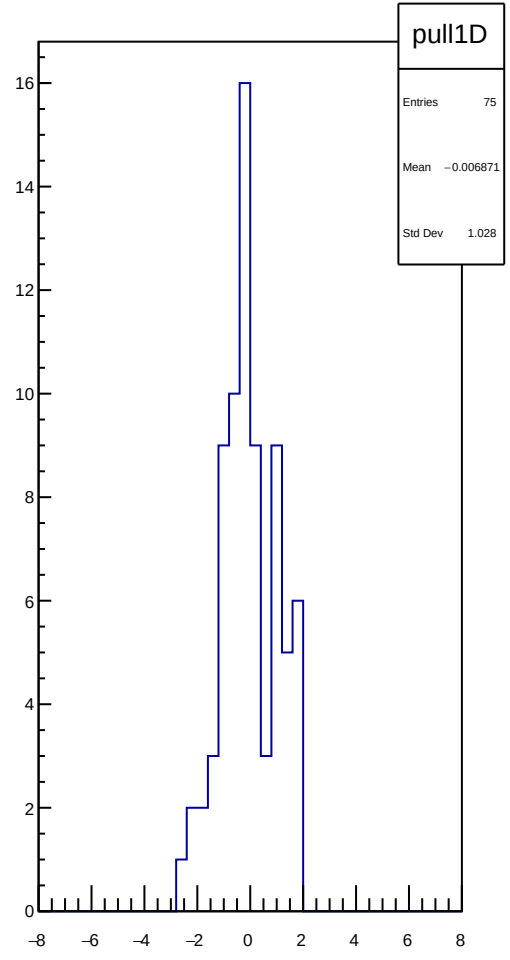

diff_bpm1i06Y_rms vs run
χ² / ndf 331.7 / 74
p0 1095 ± 0.9113
1180
1160
1140
1120
1100
1080
1060

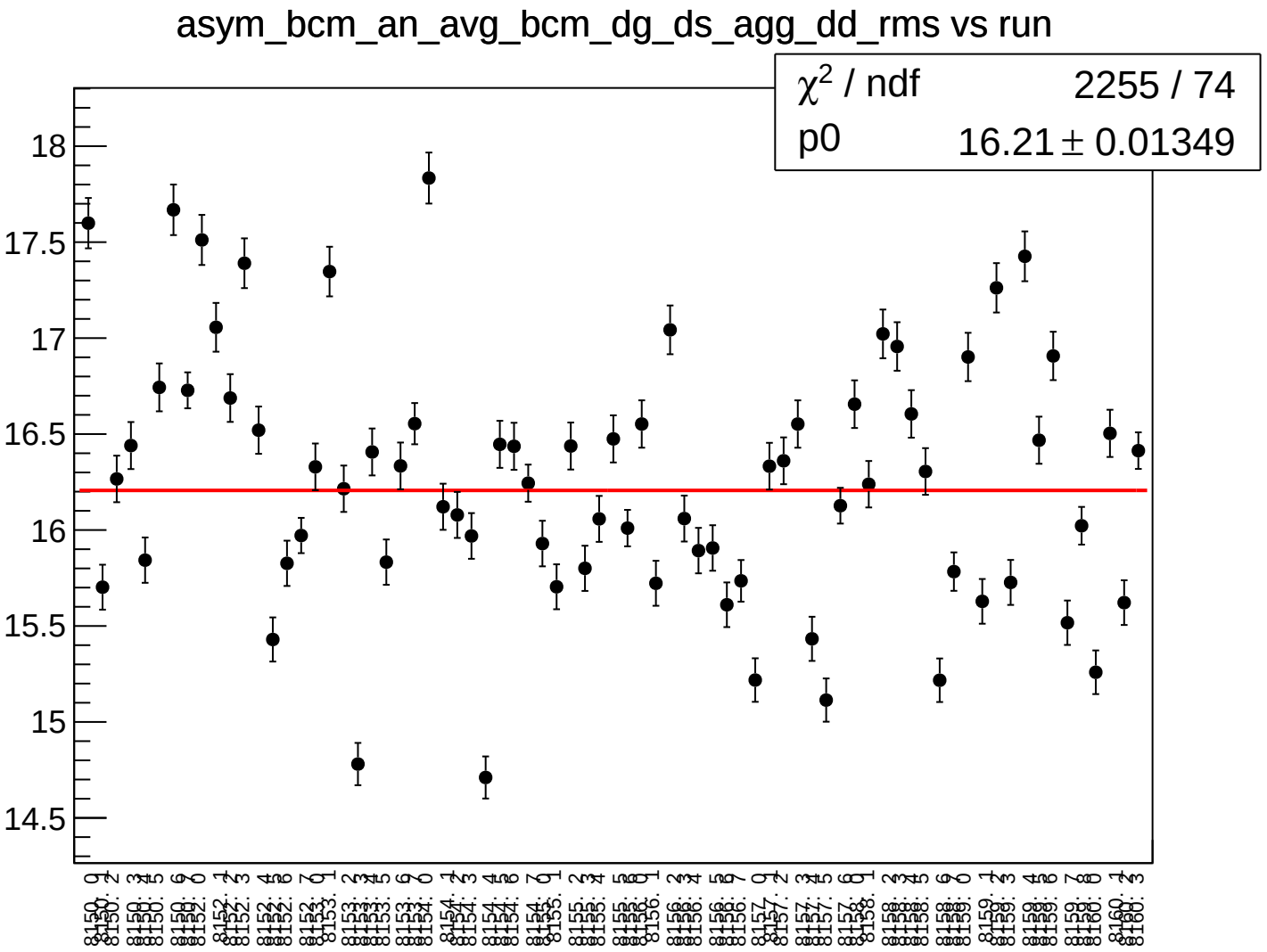

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.1 / 74
p0 133.8 ± 166.6
pull
Entries 75
Mean −77.98
Std Dev 134.6

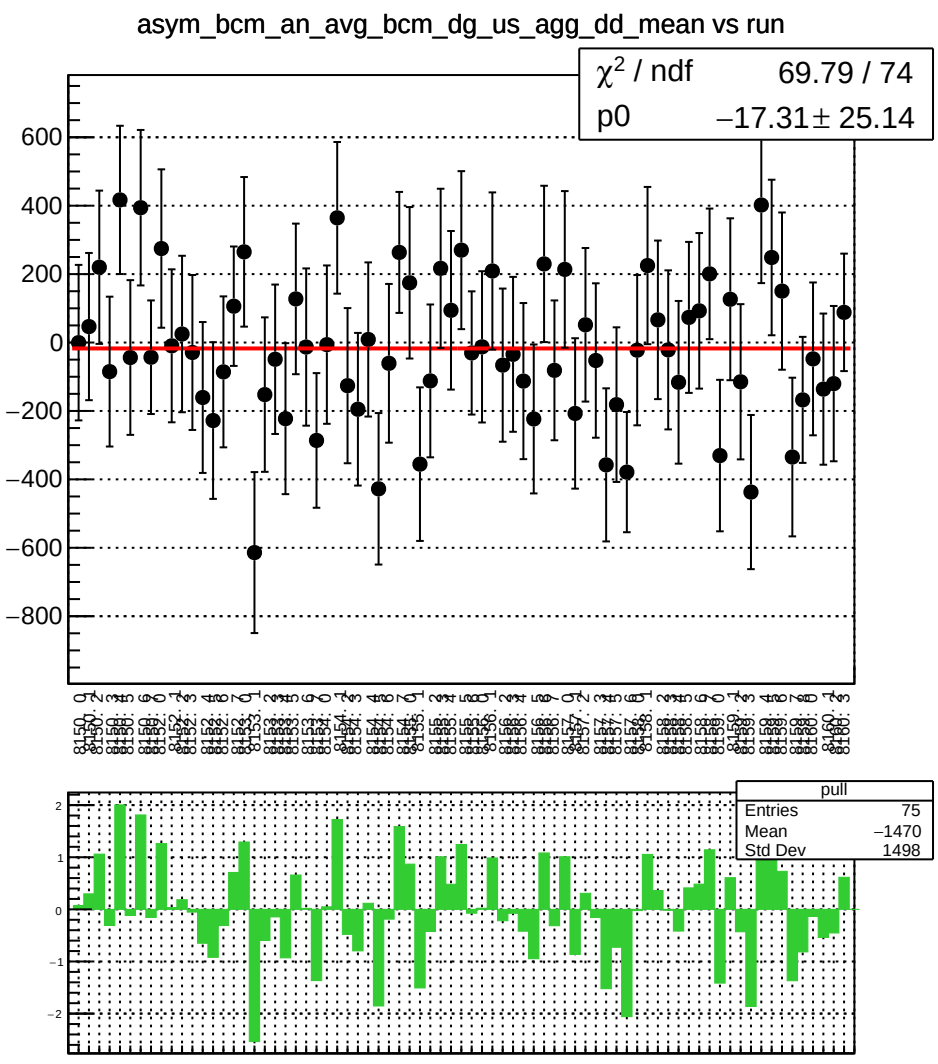

pull1D
Entries 75
Mean −0.001966
Std Dev 0.4487

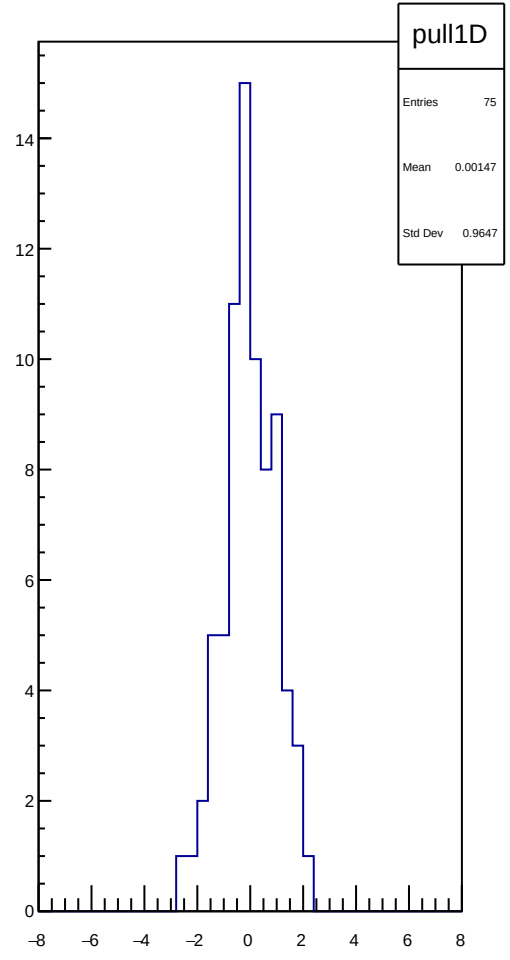

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2839 / 74
p0 141.4 ± 0.1178
175
170
165
160
155
150
145
140
135
130

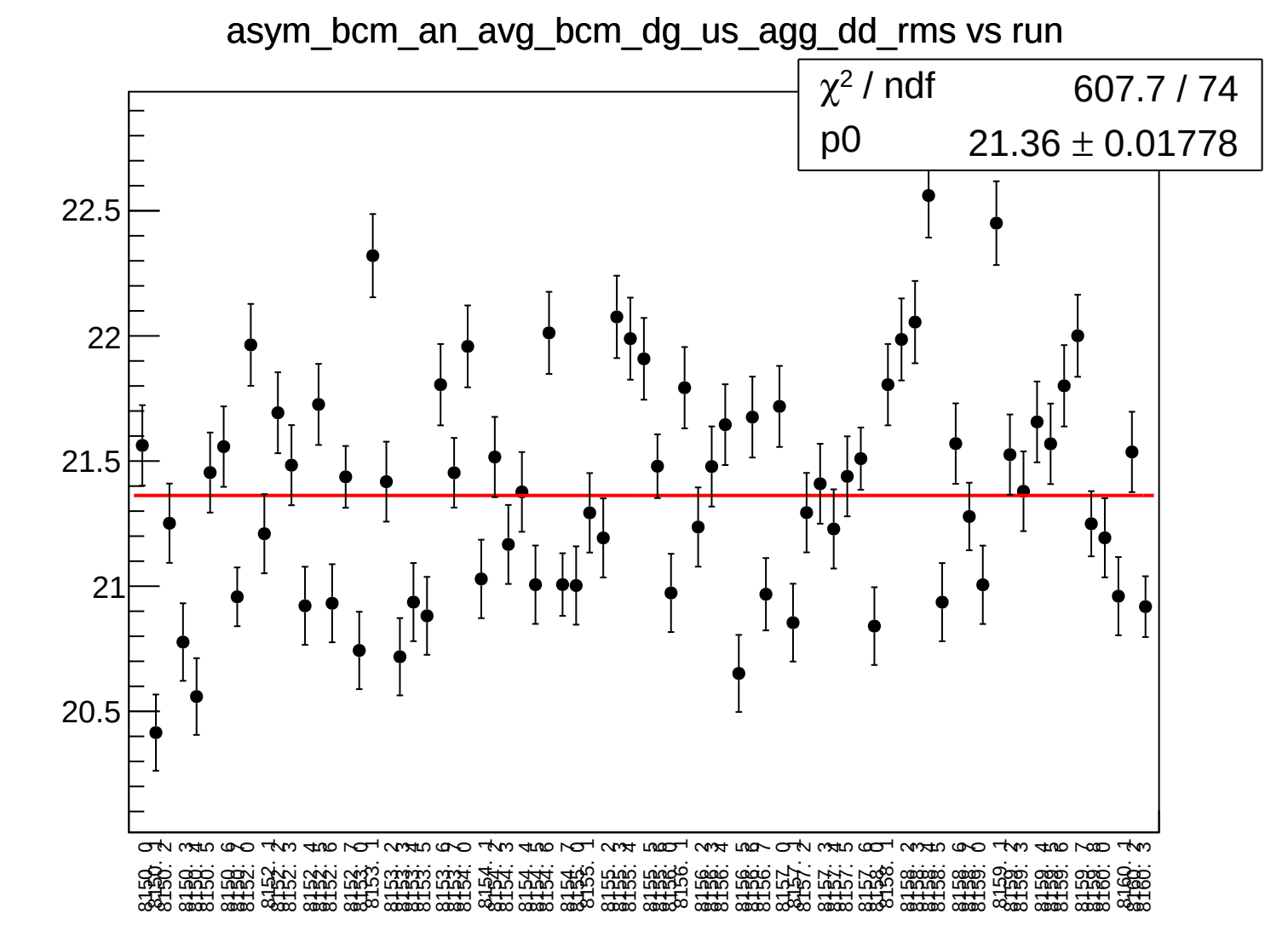

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 79.26 / 74
p0 −17.94 ± 19.08
pull
Entries 75
Mean 24.17
Std Dev 17.25

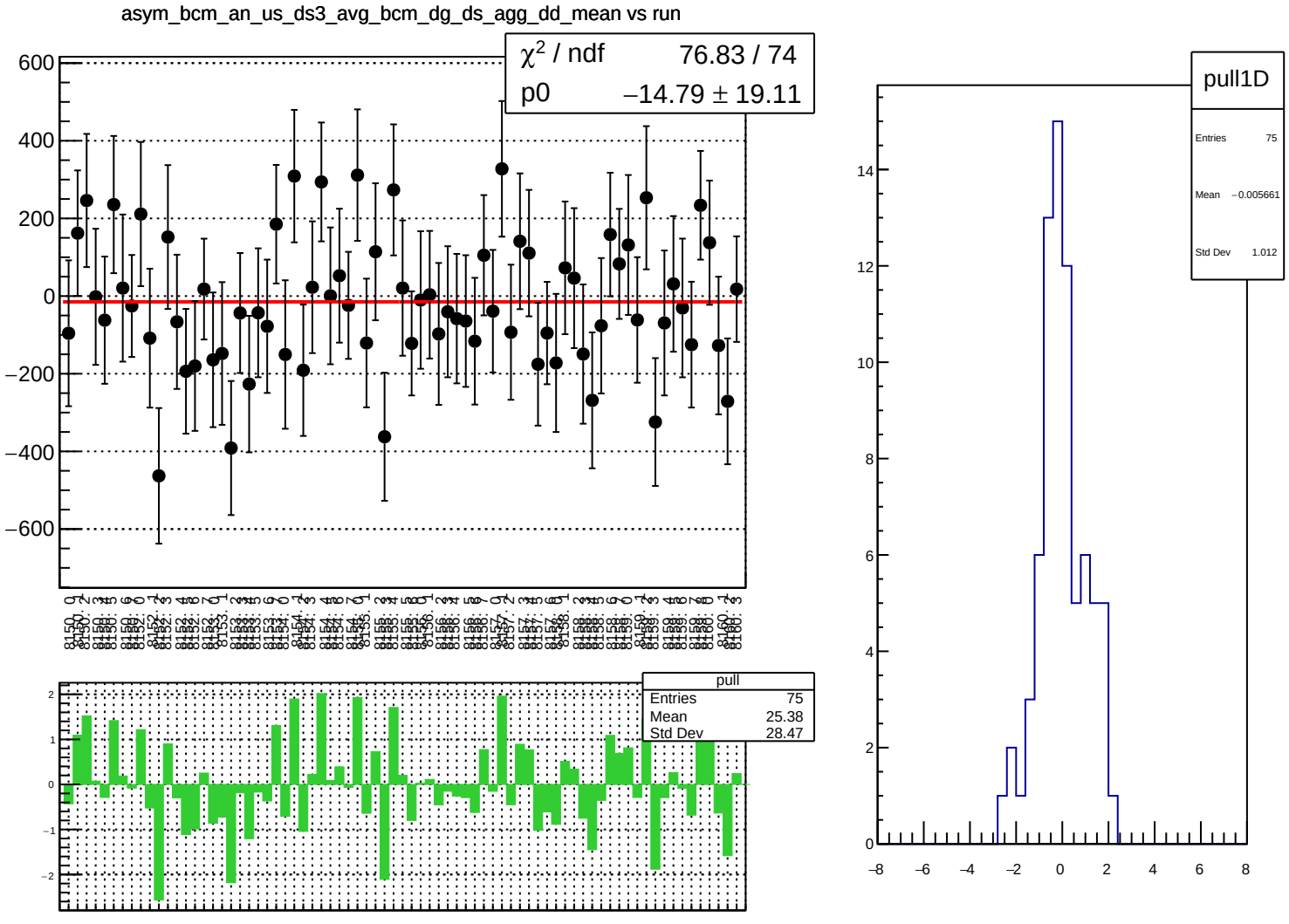

pull1D
Entries 75
Mean −0.006871
Std Dev 1.028

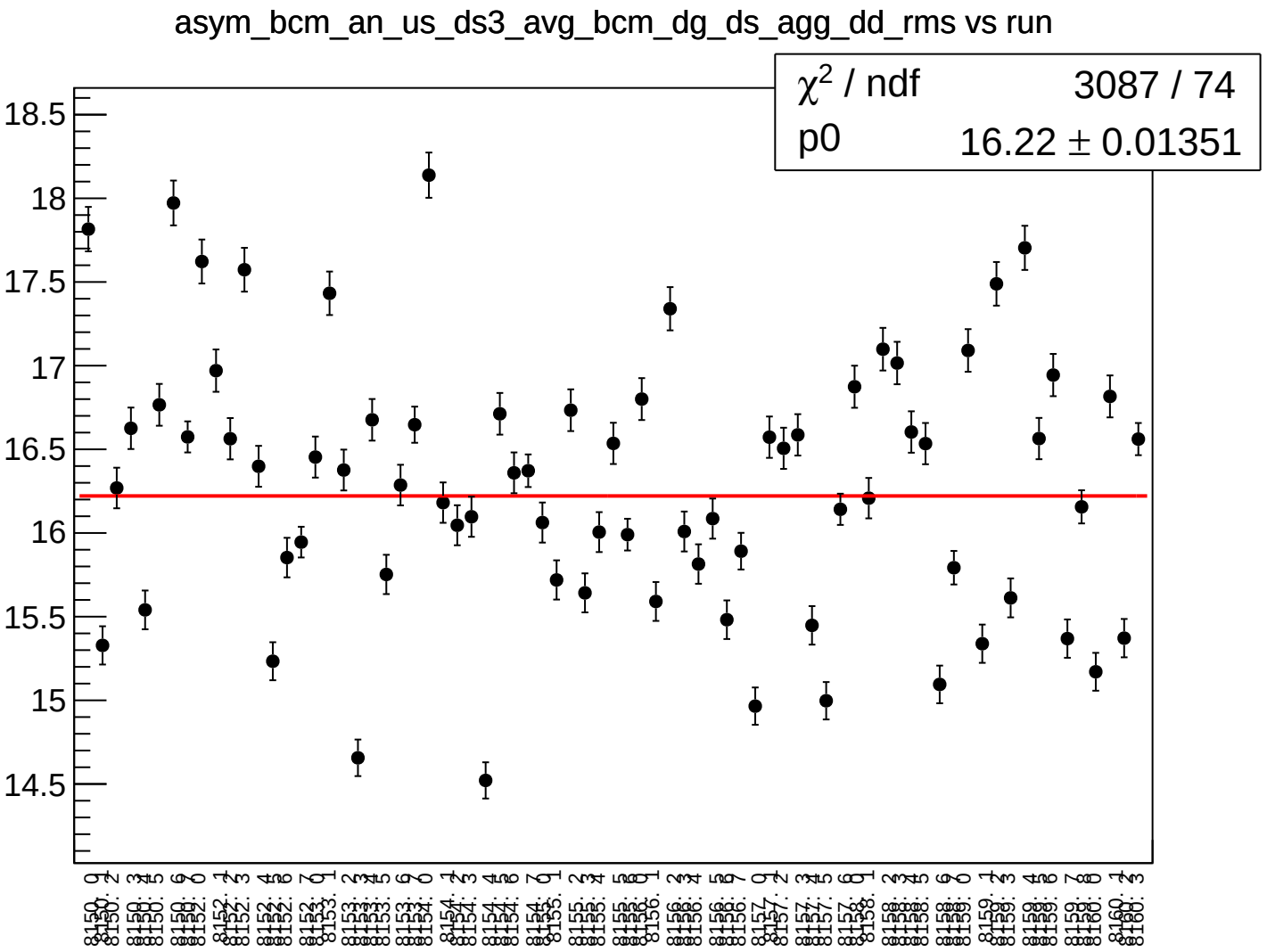

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2255 / 74
p0 16.21 ± 0.01349
18
17.5
17
16.5
16
15.5
15
14.5

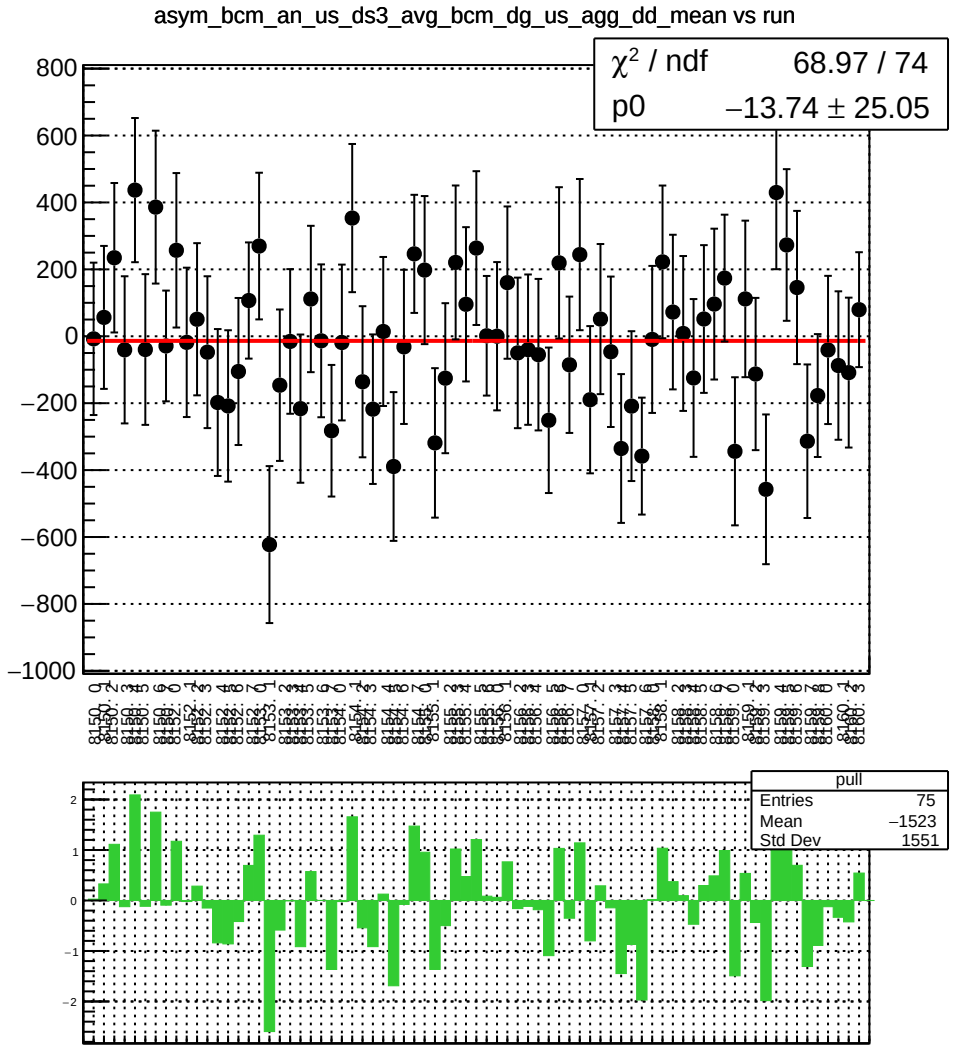

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.79 / 74
p0 −17.31 ± 25.14
pull
Entries 75
Mean −1470
Std Dev 1498

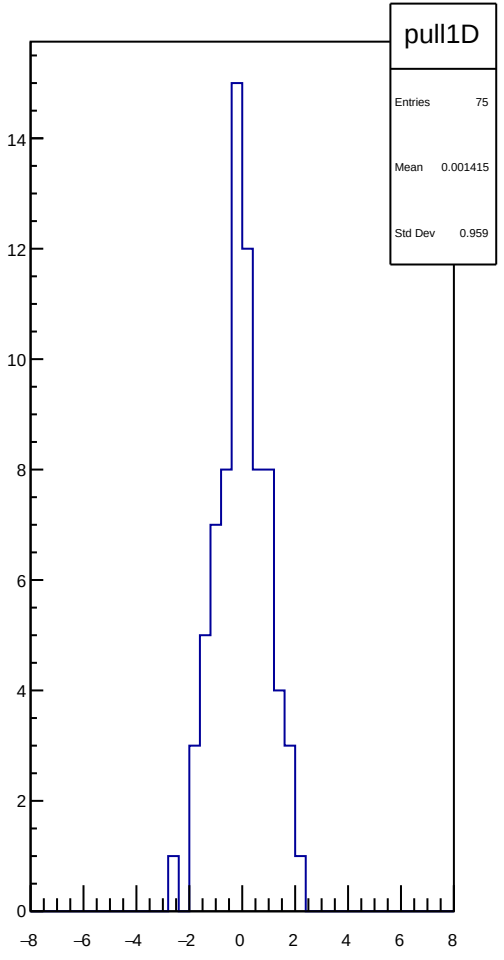

pull1D
Entries 75
Mean 0.00147
Std Dev 0.9647

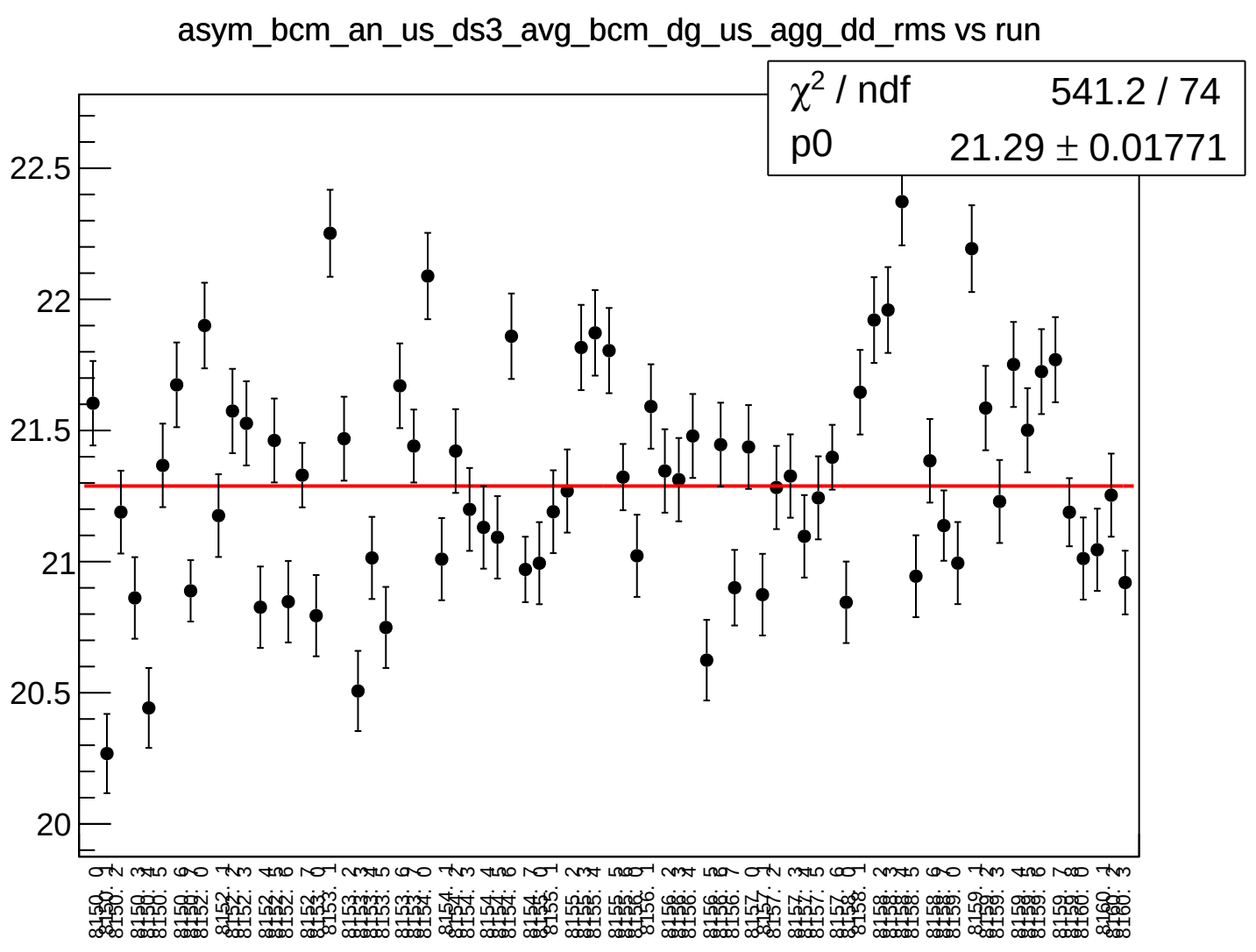

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 607.7 / 74
p0 21.36 ± 0.01778
22.5
22
21.5
21
20.5

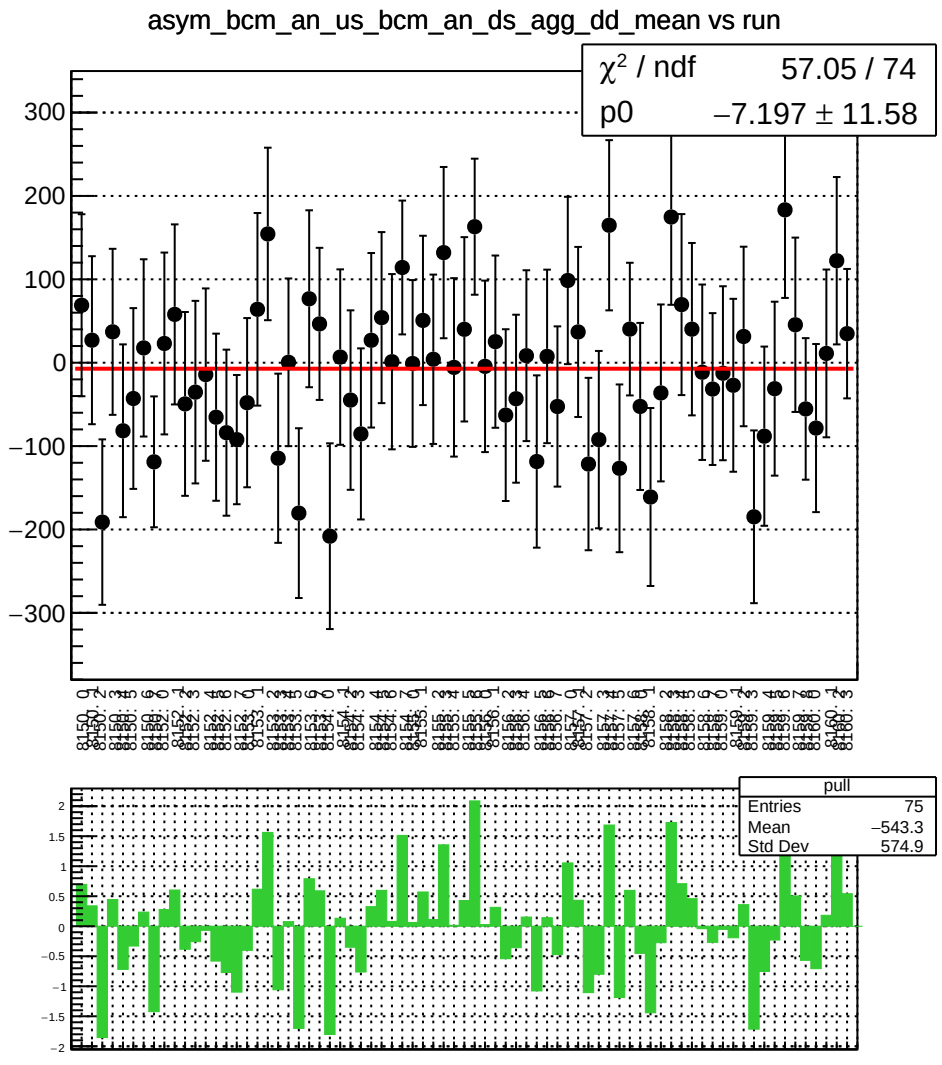

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.83 / 74
p0 −14.79 ± 19.11
pull
Entries 75
Mean 25.38
Std Dev 28.47
pull1D
Entries 75
Mean −0.005661
Std Dev 1.012

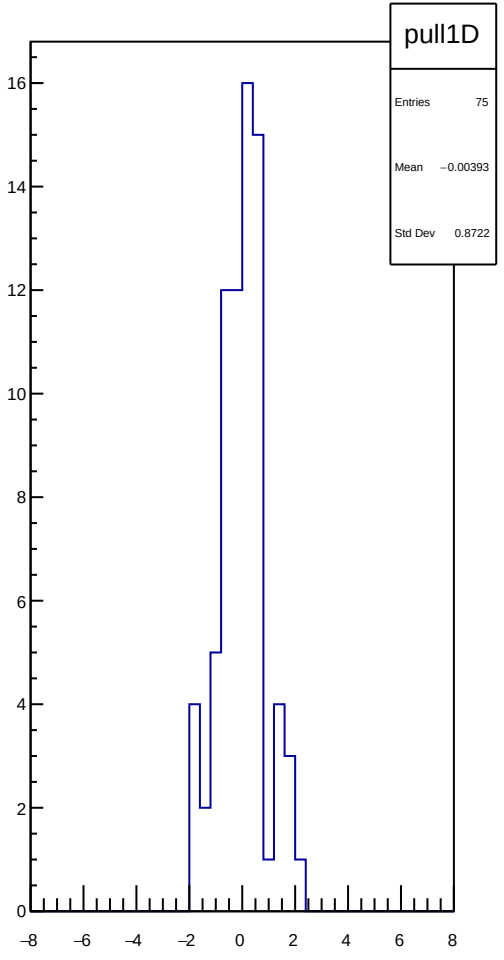

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3087 / 74
p0 16.22 ± 0.01351
18.5
18
17.5
17
16.5
16
15.5
15
14.5

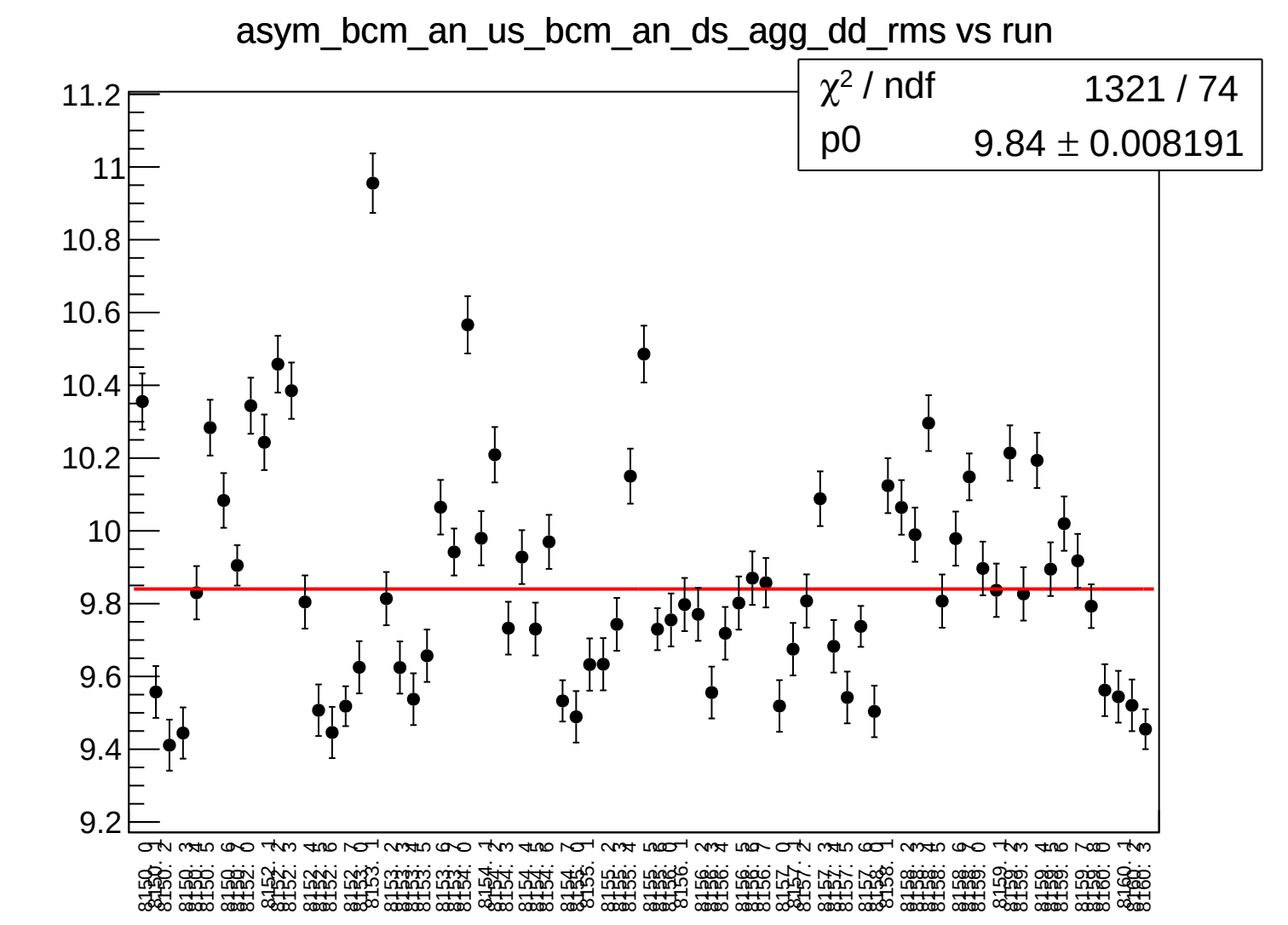

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.97 / 74
p0 −13.74 ± 25.05
pull
Entries 75
Mean −1523
Std Dev 1551

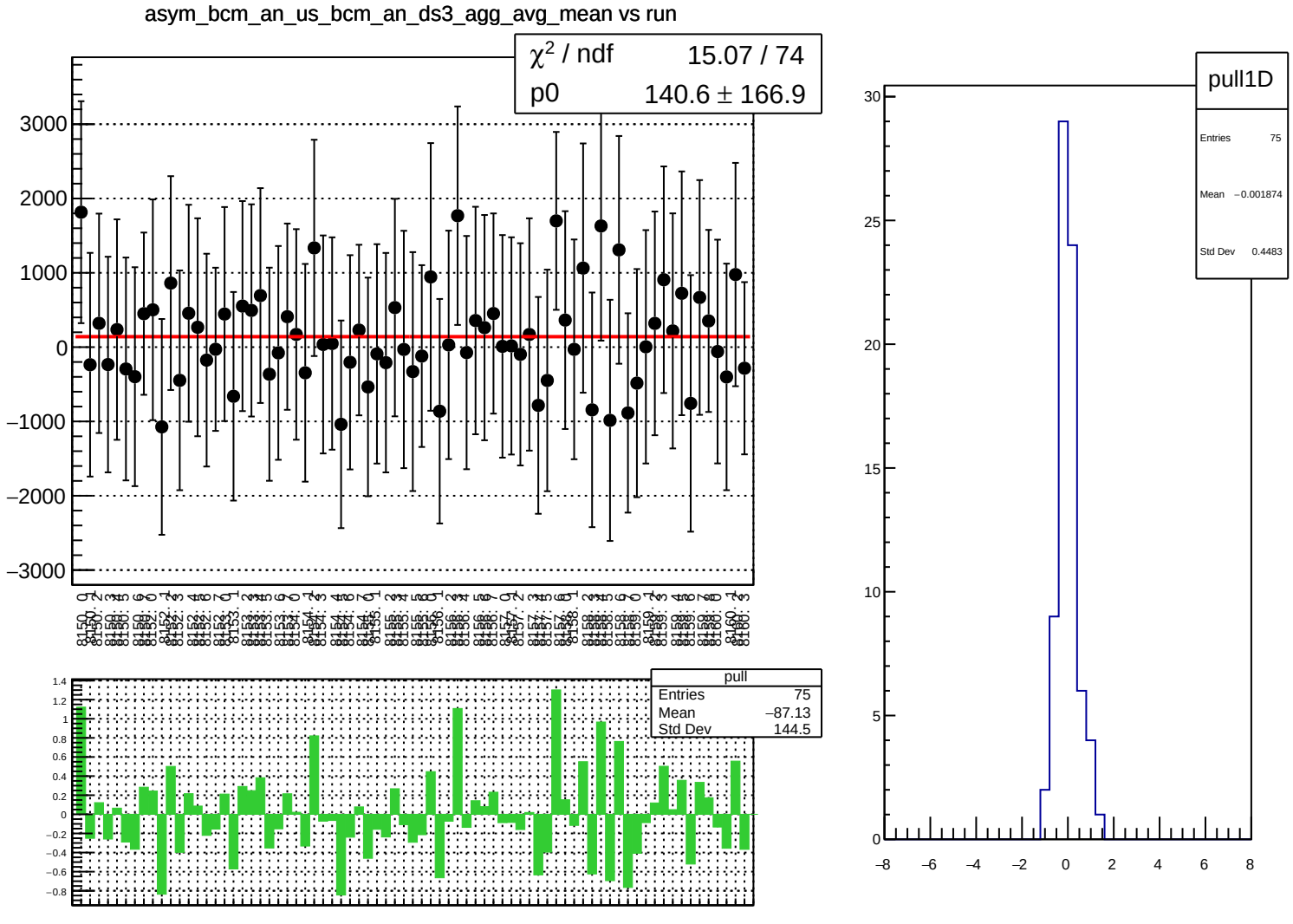

pull1D
Entries 75
Mean 0.001415
Std Dev 0.959

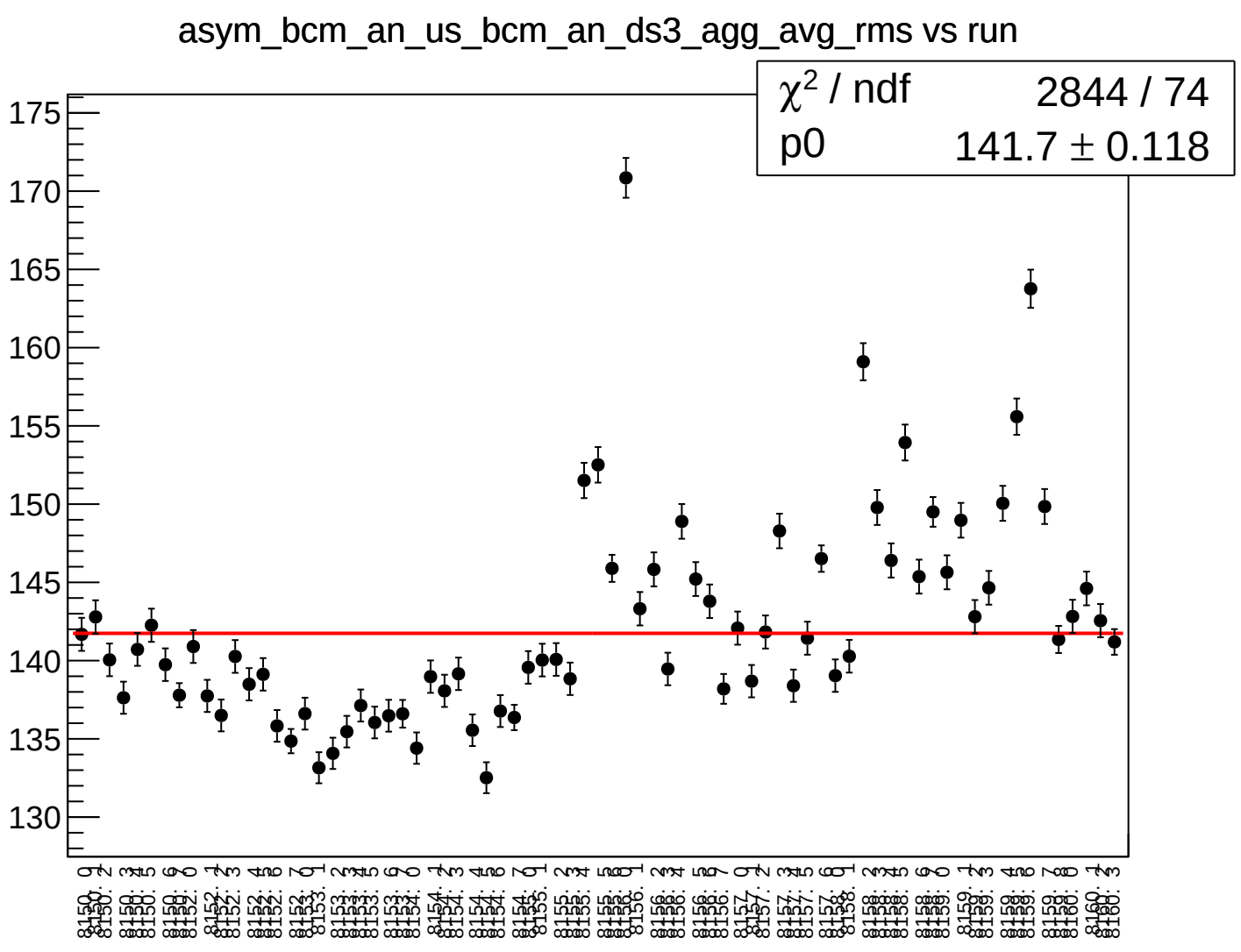

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 541.2 / 74
p0 21.29 ± 0.01771
22.5
22
21.5
21
20.5
20

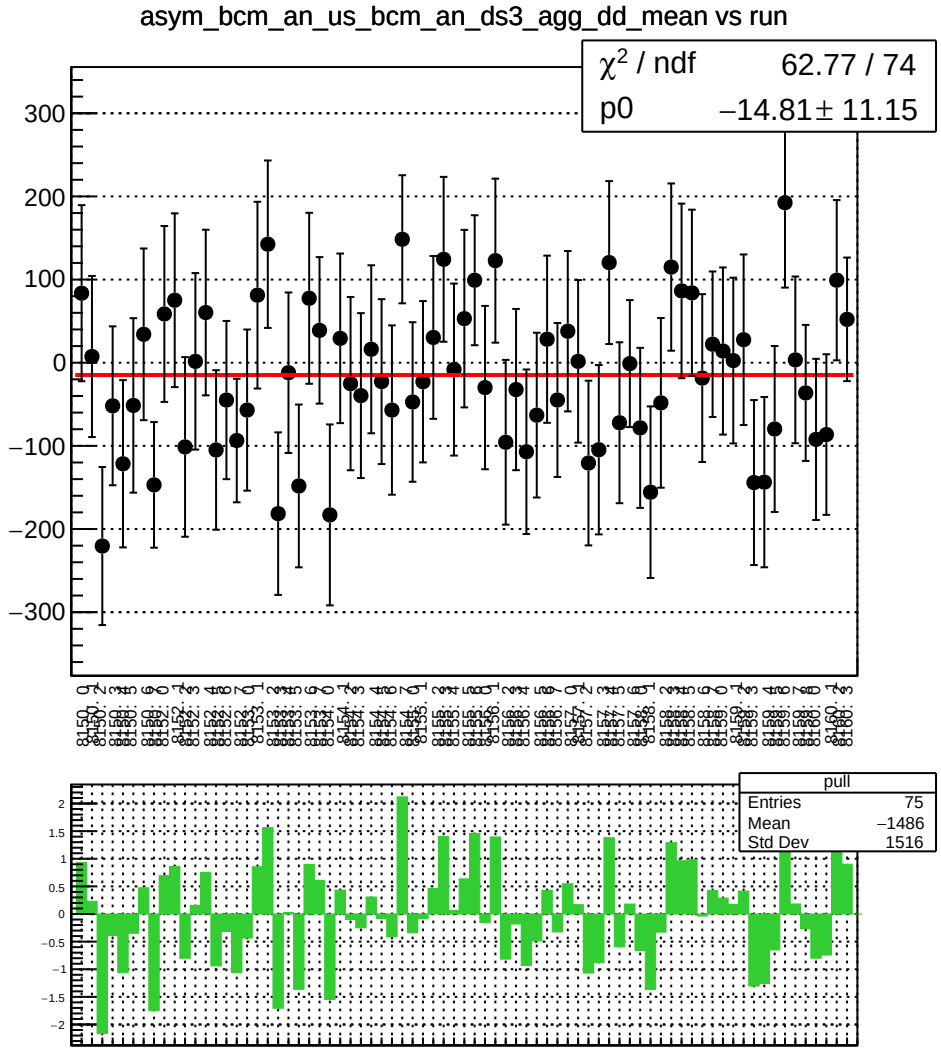

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.05 / 74
p0 −7.197 ± 11.58
pull
Entries 75
Mean −543.3
Std Dev 574.9

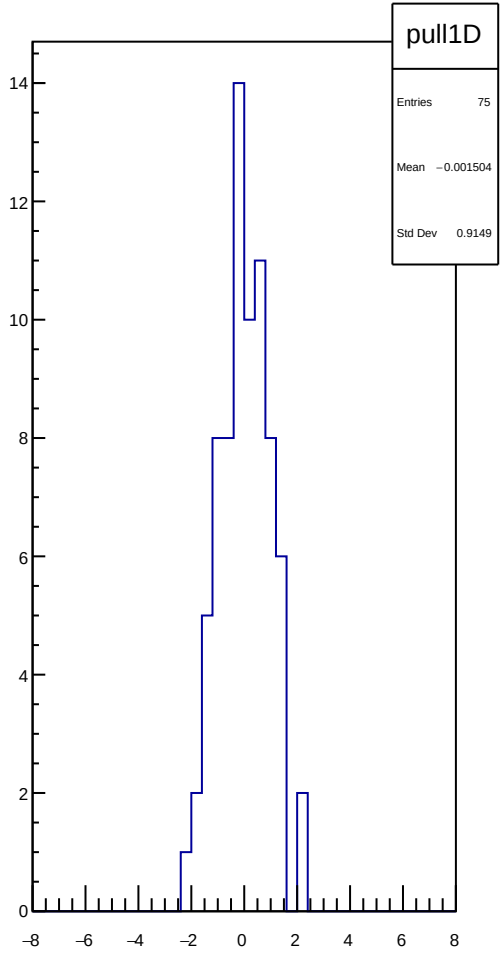

pull1D
Entries 75
Mean −0.00393
Std Dev 0.8722

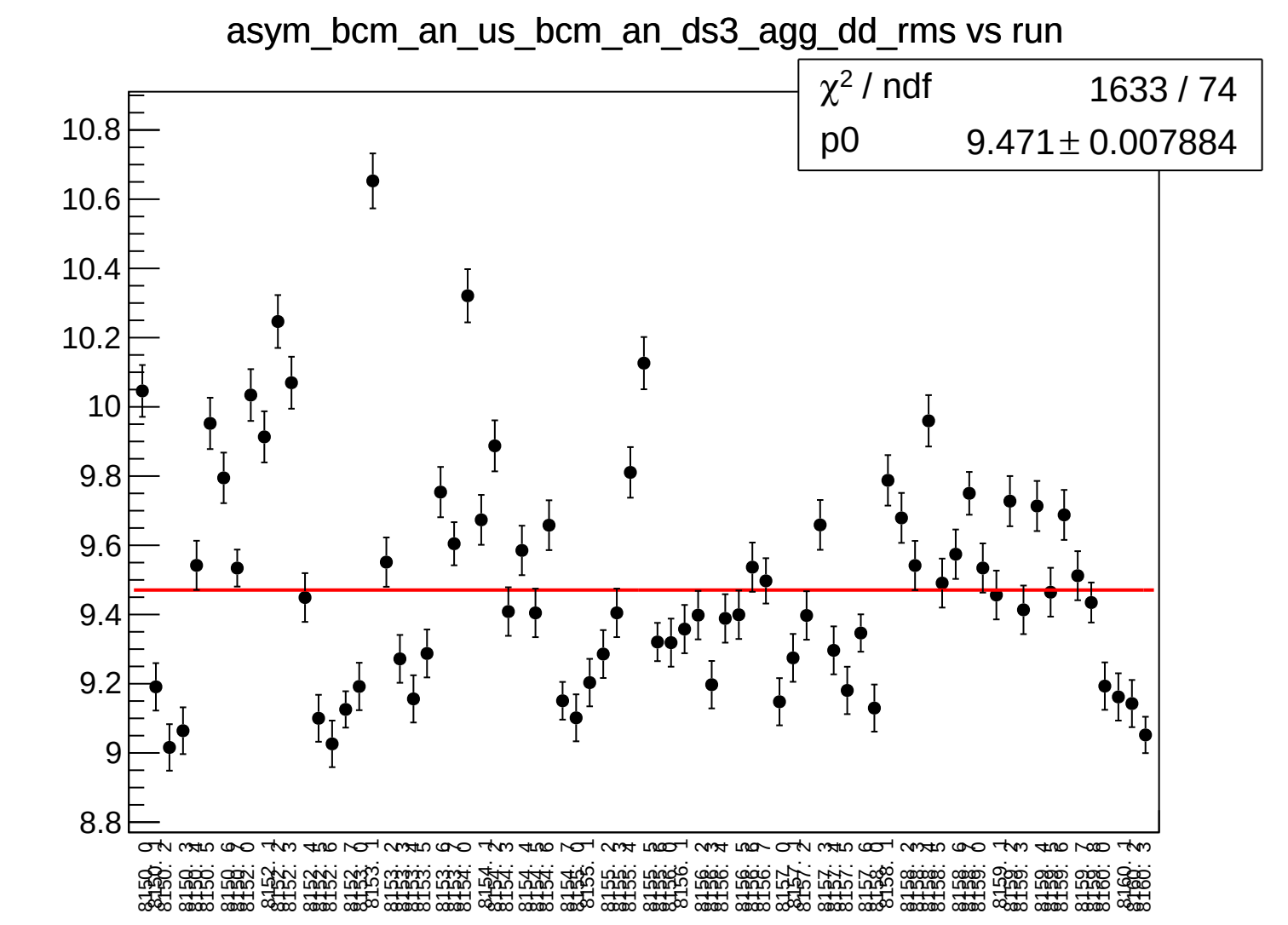

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1321 / 74
p0 9.84 ± 0.008191
11.2
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

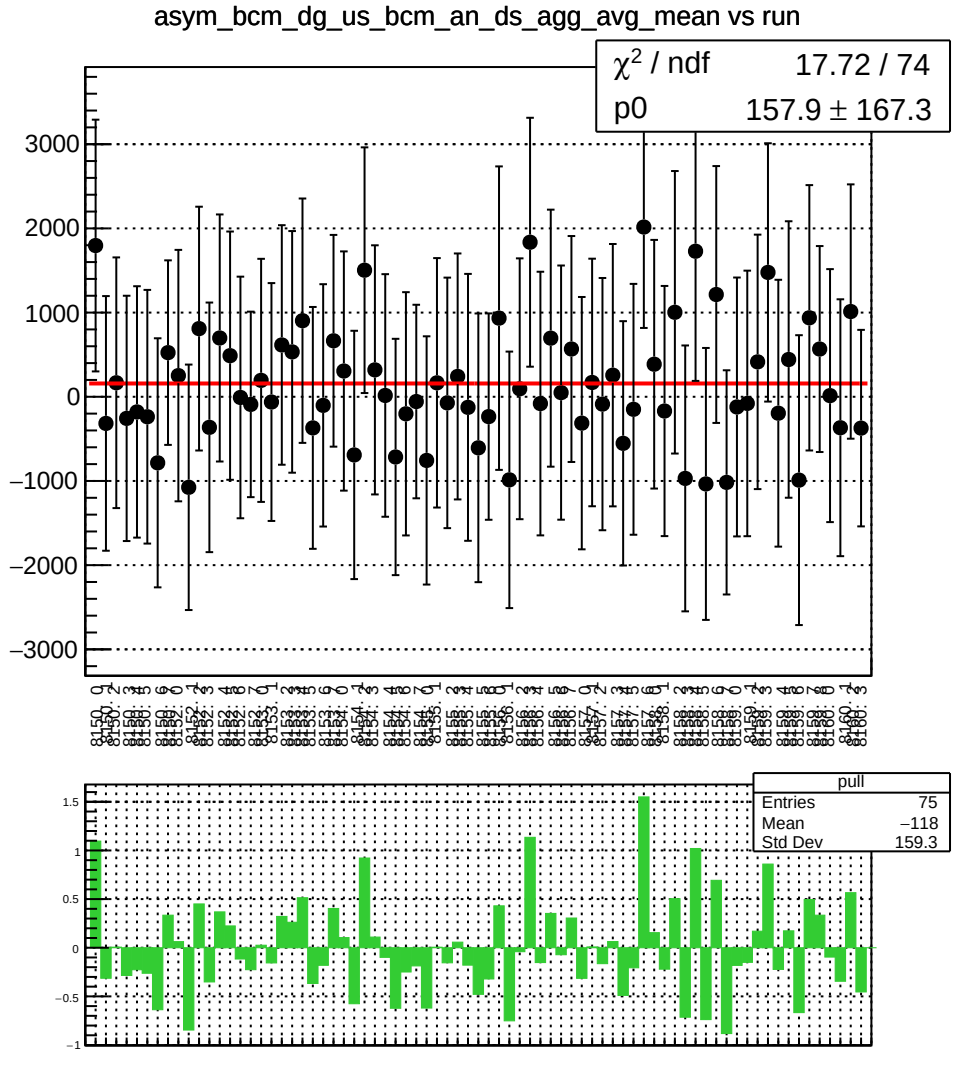

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.07 / 74
p0 140.6 ± 166.9
pull
Entries 75
Mean −87.13
Std Dev 144.5
pull1D
Entries 75
Mean −0.001874
Std Dev 0.4483

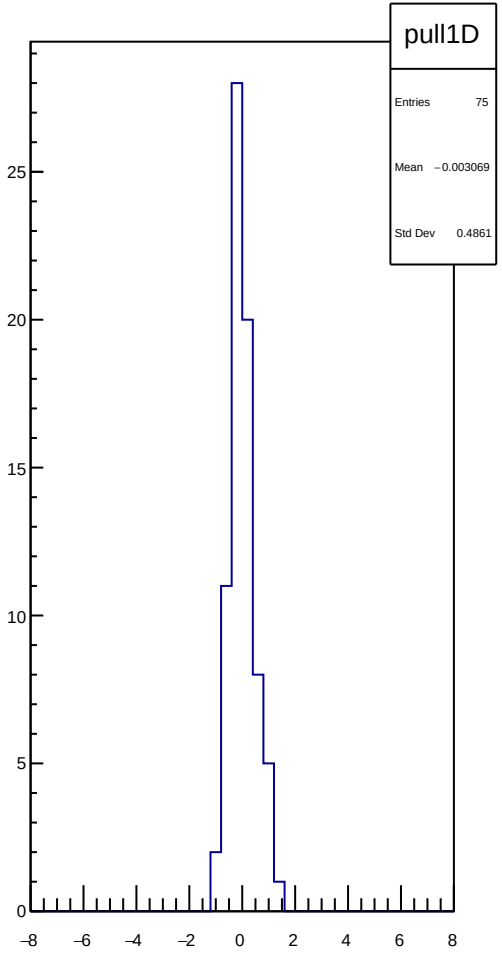

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2844 / 74
p0 141.7 ± 0.118
175
170
165
160
155
150
145
140
135
130

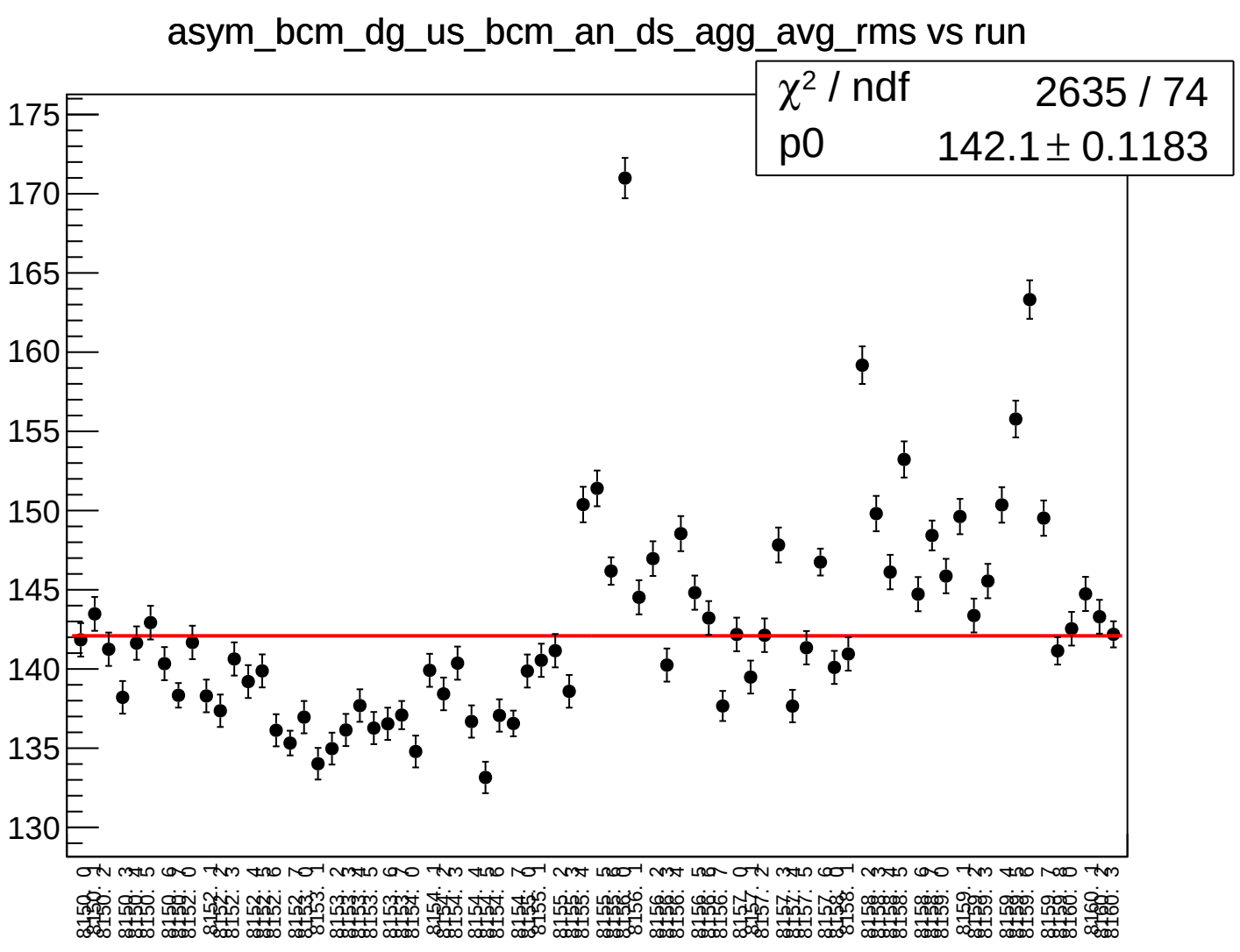

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 62.77 / 74
p0 −14.81 ± 11.15
300
200
100
0
−100
−200
−300
pull
Entries 75
Mean −1486
Std Dev 1516
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

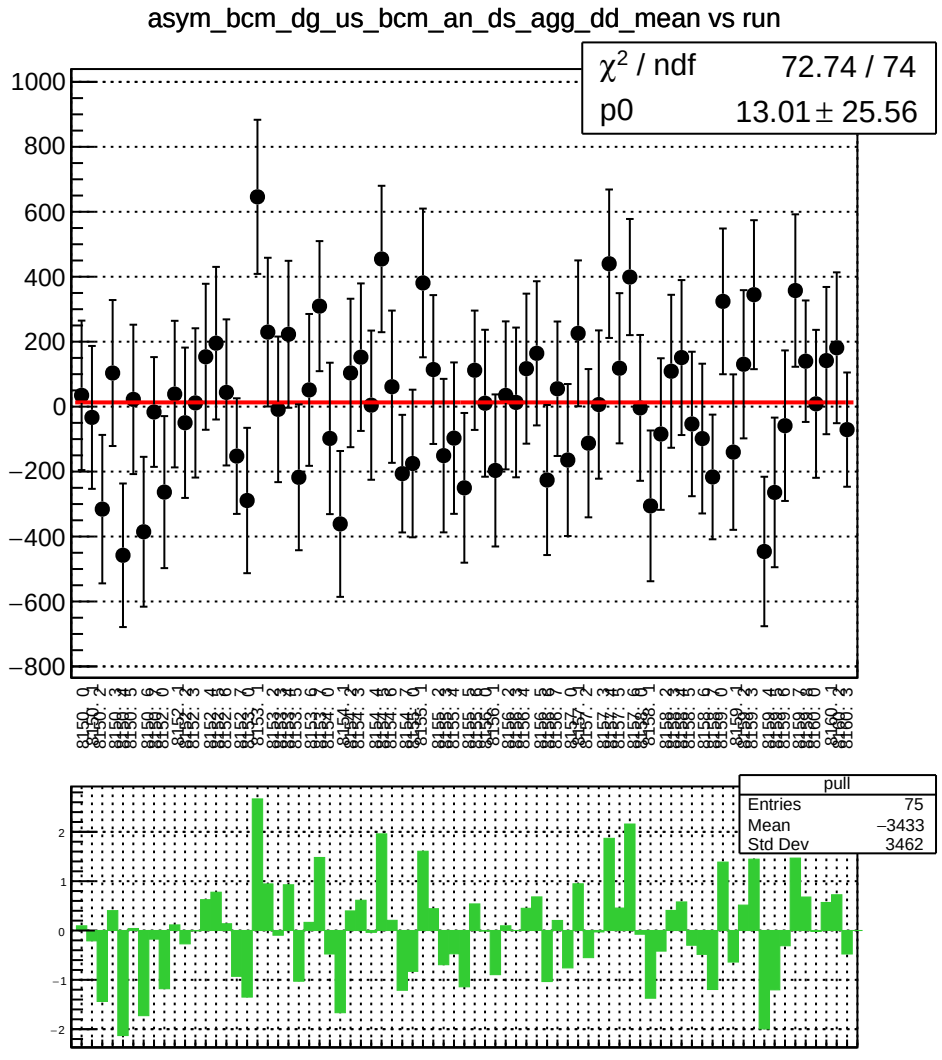

pull1D
Entries 75
Mean −0.001504
Std Dev 0.9149
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

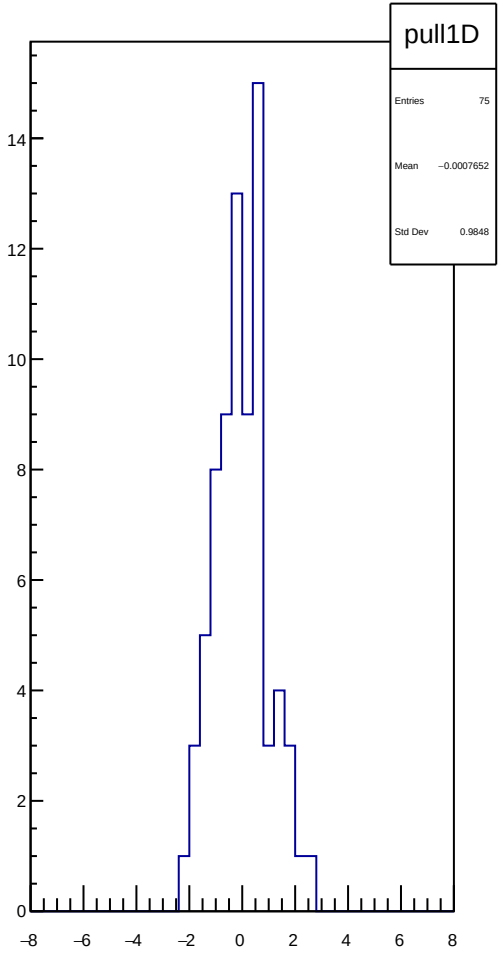

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1633 / 74
p0 9.471 ± 0.007884
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

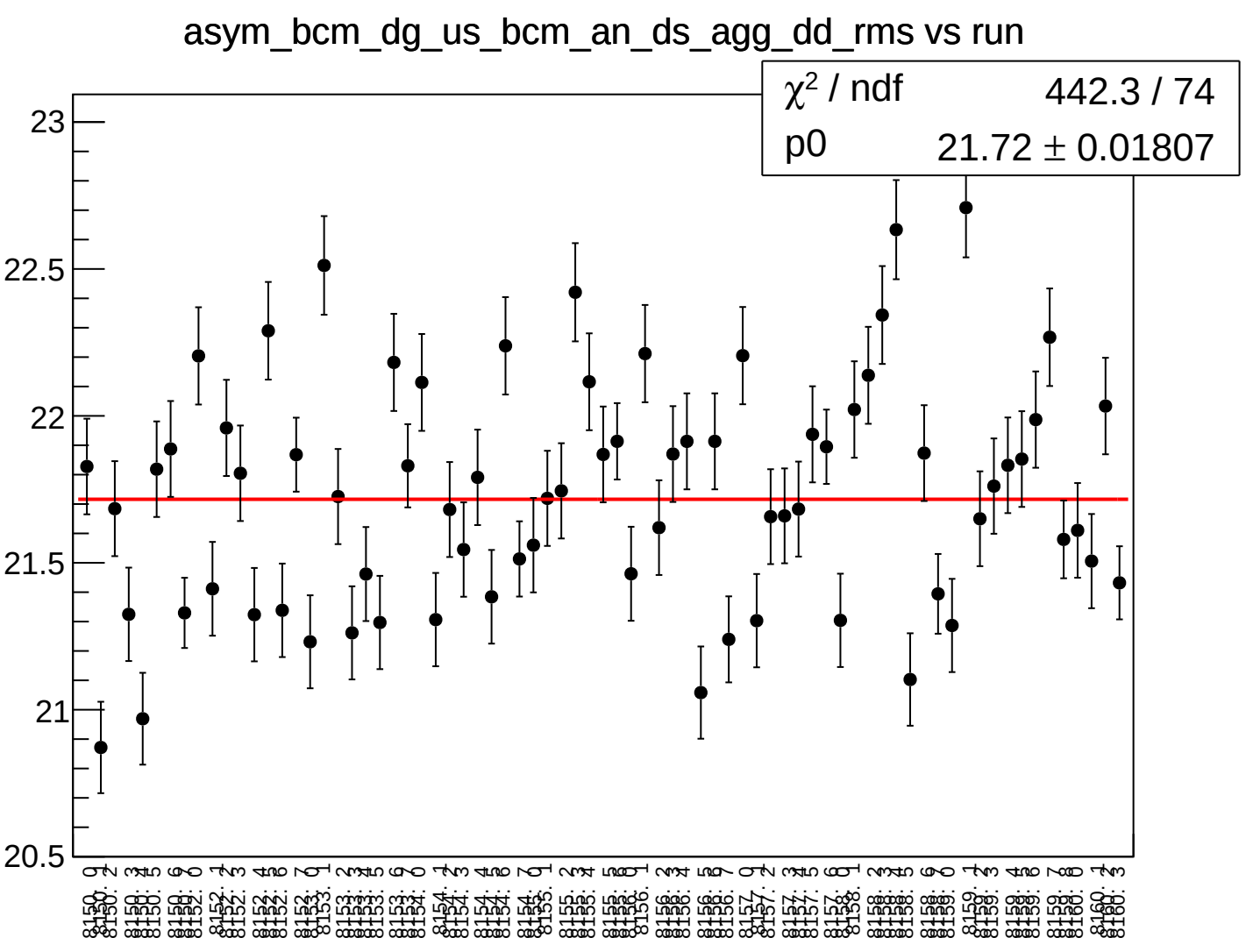

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.72 / 74
p0 157.9 ± 167.3
pull
Entries 75
Mean −118
Std Dev 159.3

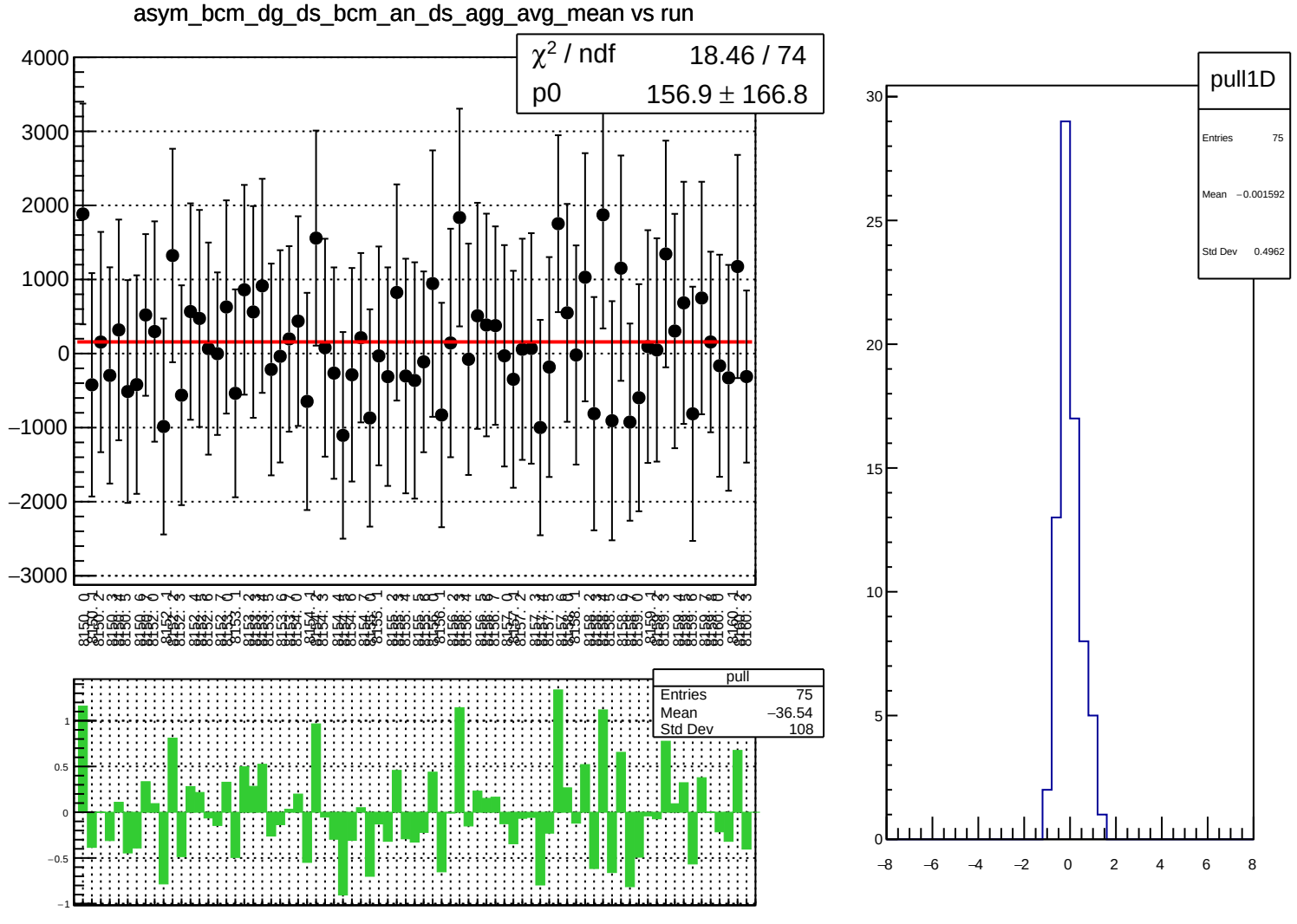

pull1D
Entries 75
Mean −0.003069
Std Dev 0.4861

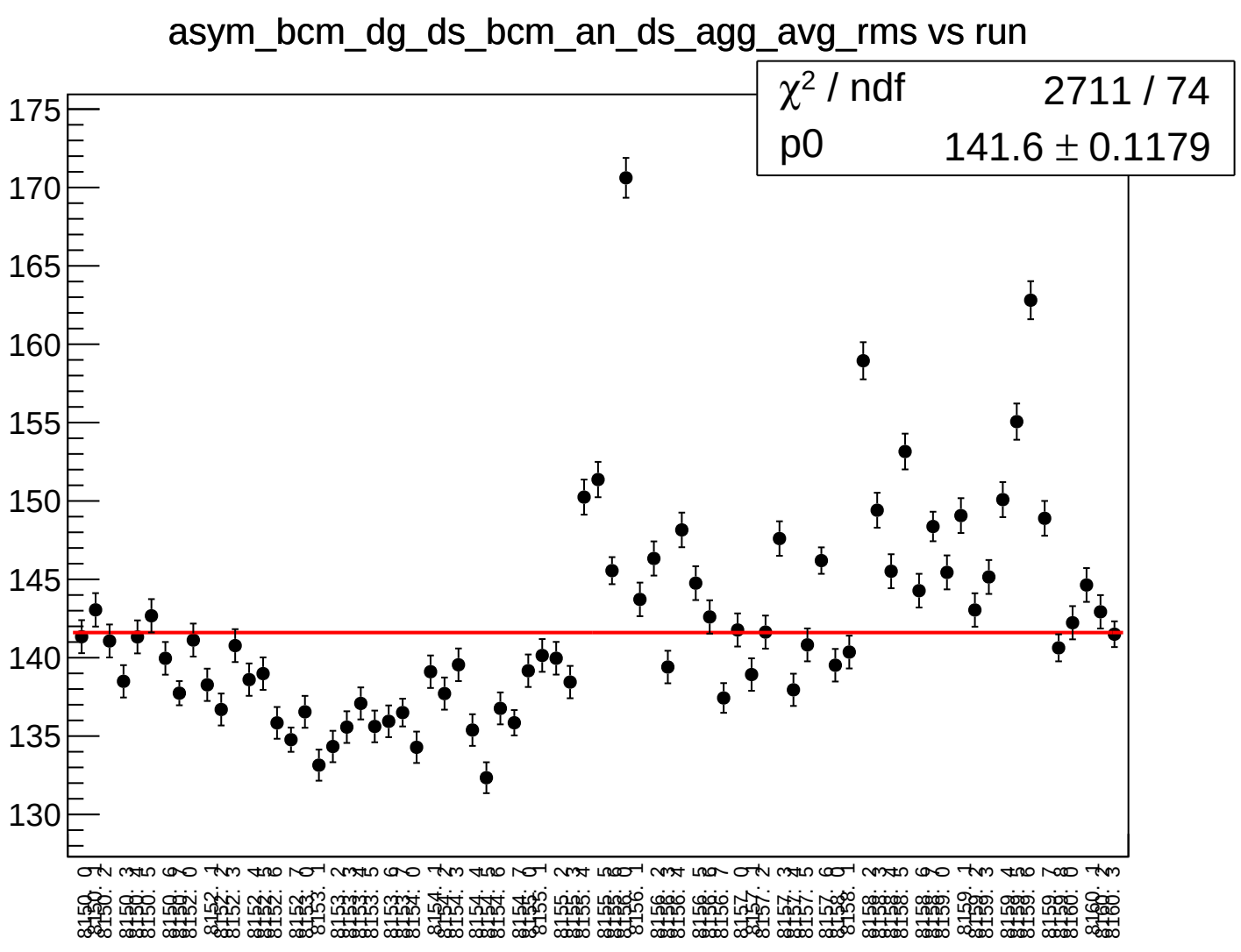

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2635 / 74
p0 142.1 ± 0.1183
175
170
165
160
155
150
145
140
135
130

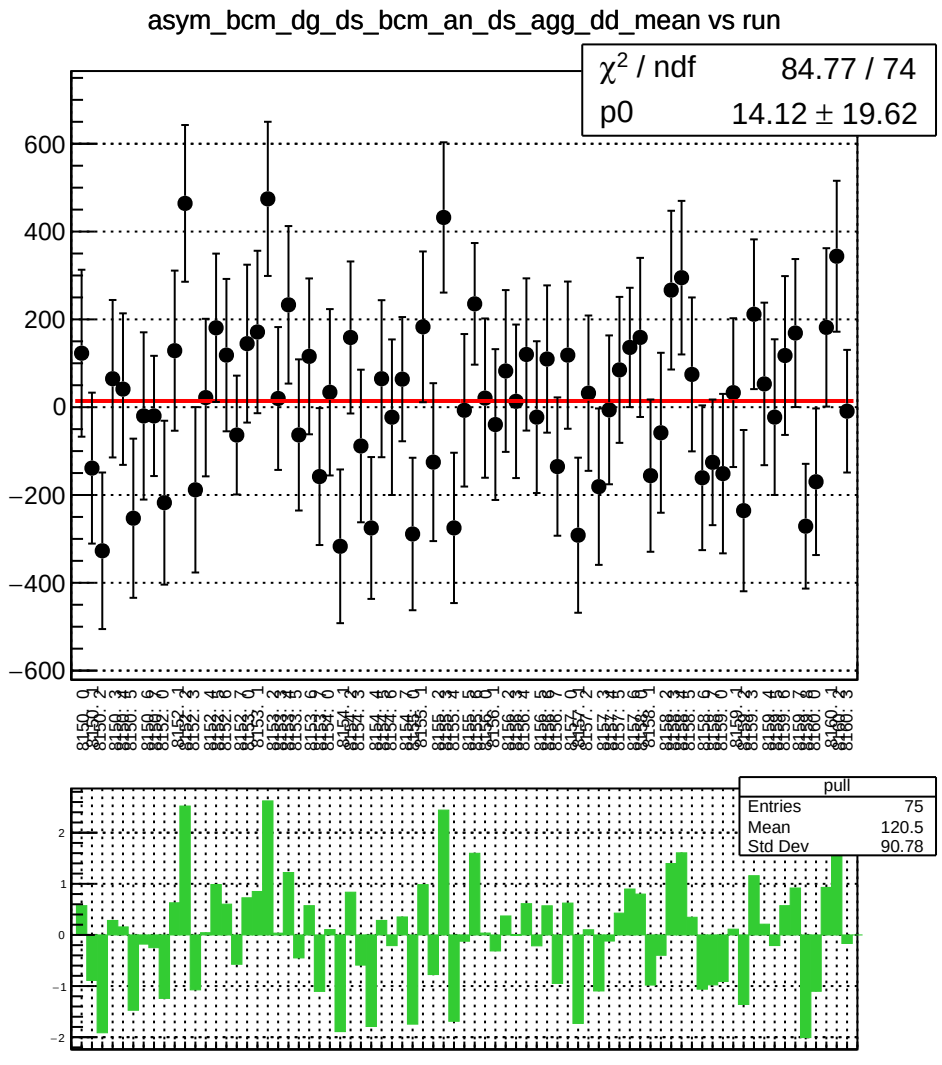

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.74 / 74
p0 13.01 ± 25.56
pull
Entries 75
Mean −3433
Std Dev 3462

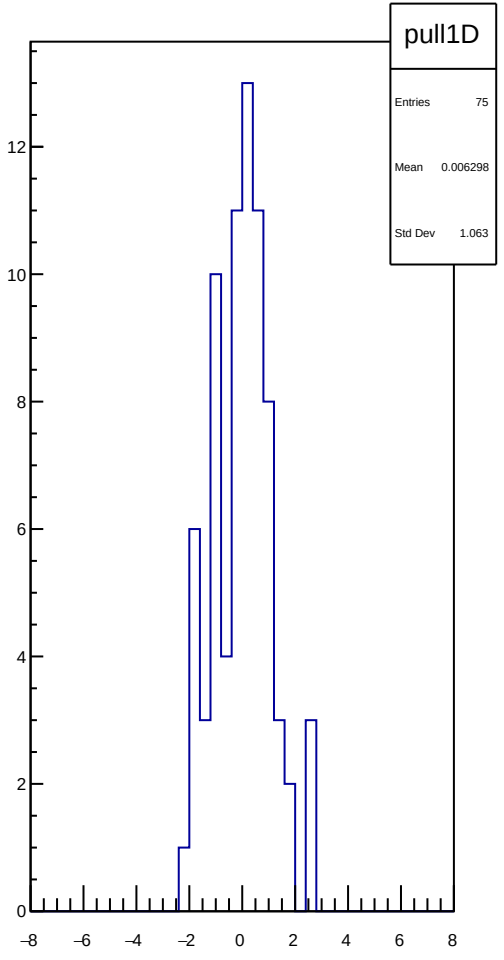

pull1D
Entries 75
Mean −0.0007652
Std Dev 0.9848

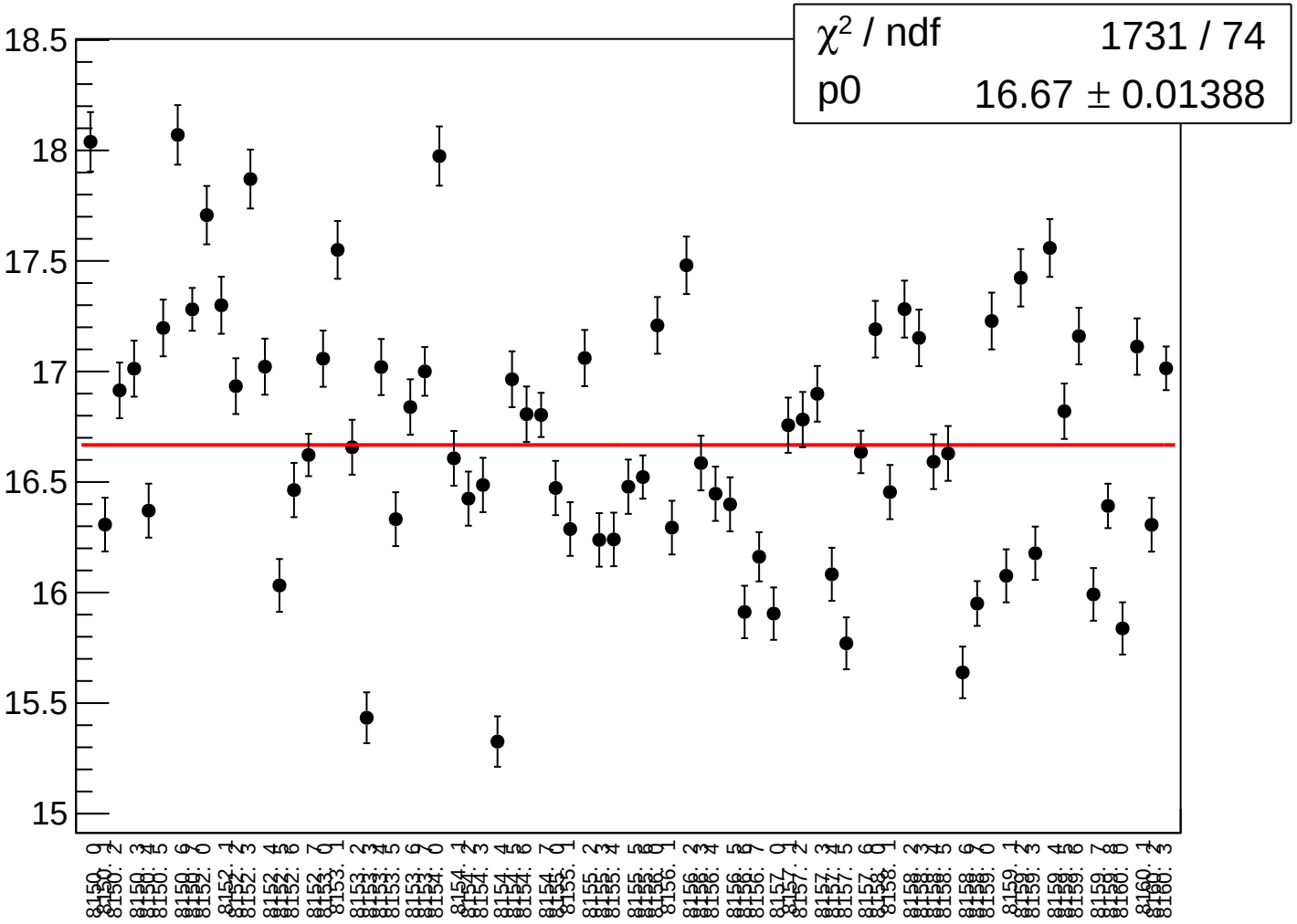

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 442.3 / 74
p0 21.72 ± 0.01807
23
22.5
22
21.5
21
20.5

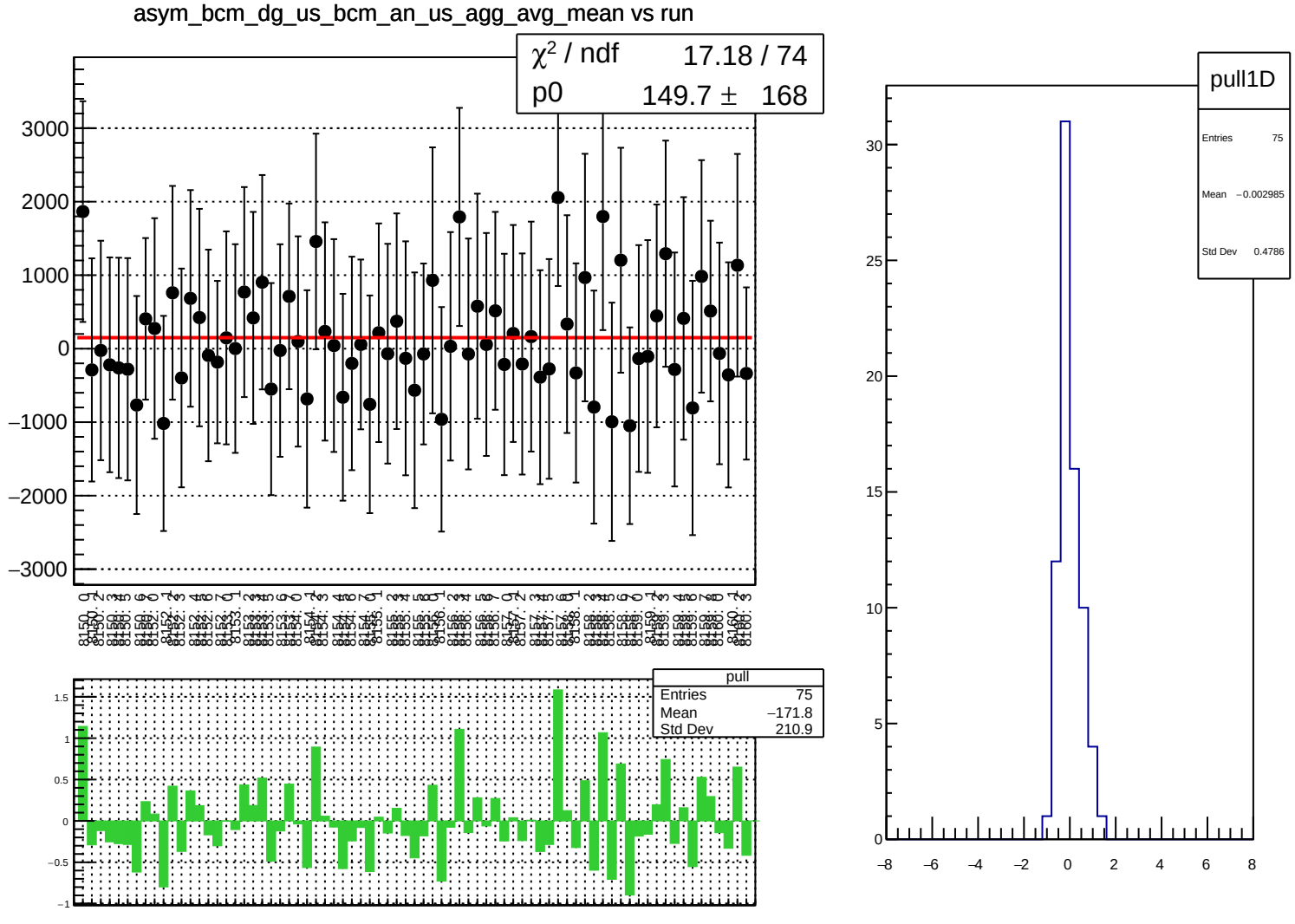

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.46 / 74
p0 156.9 ± 166.8
pull
Entries 75
Mean −36.54
Std Dev 108
pull1D
Entries 75
Mean −0.001592
Std Dev 0.4962

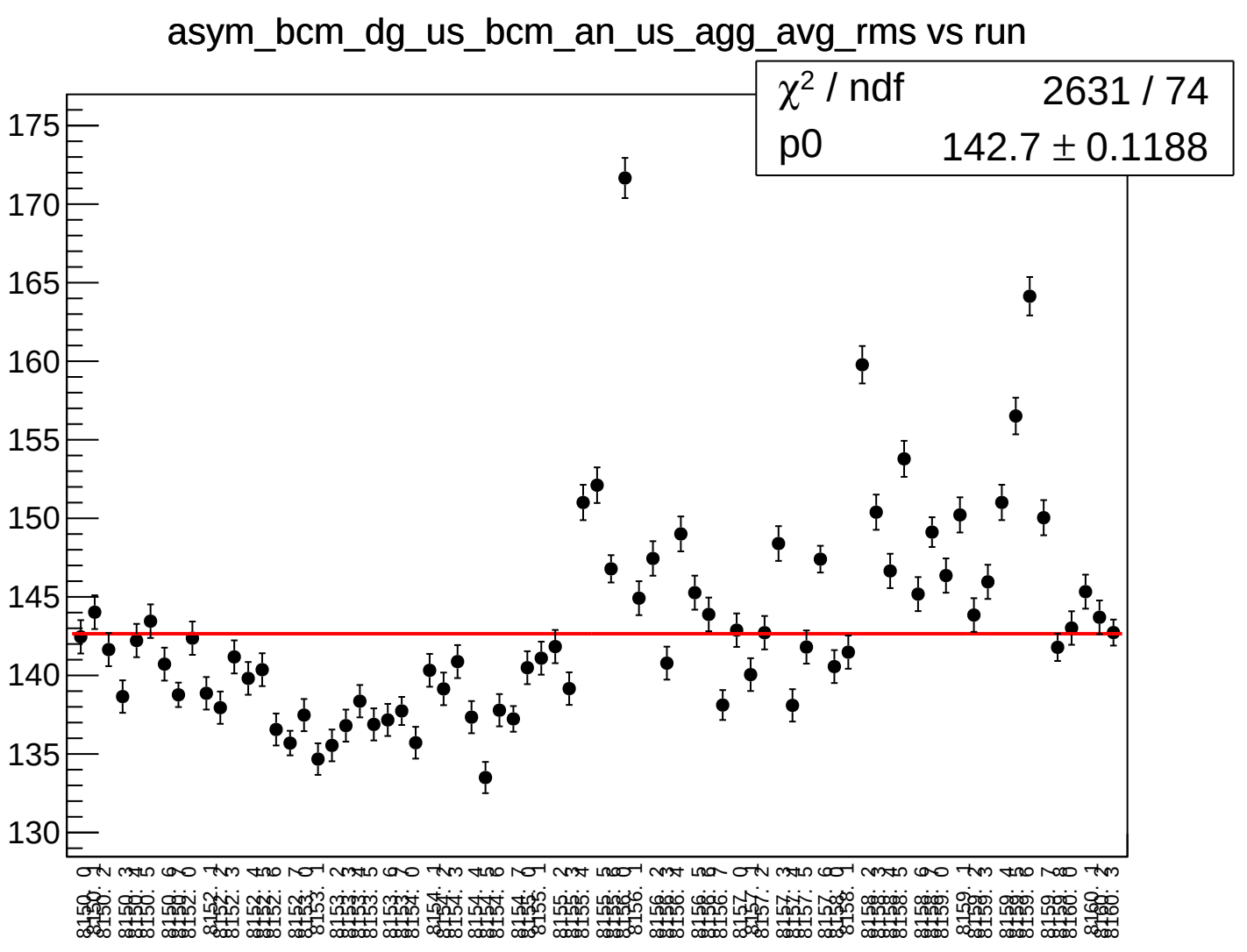

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2711 / 74
p0 141.6 ± 0.1179
175
170
165
160
155
150
145
140
135
130

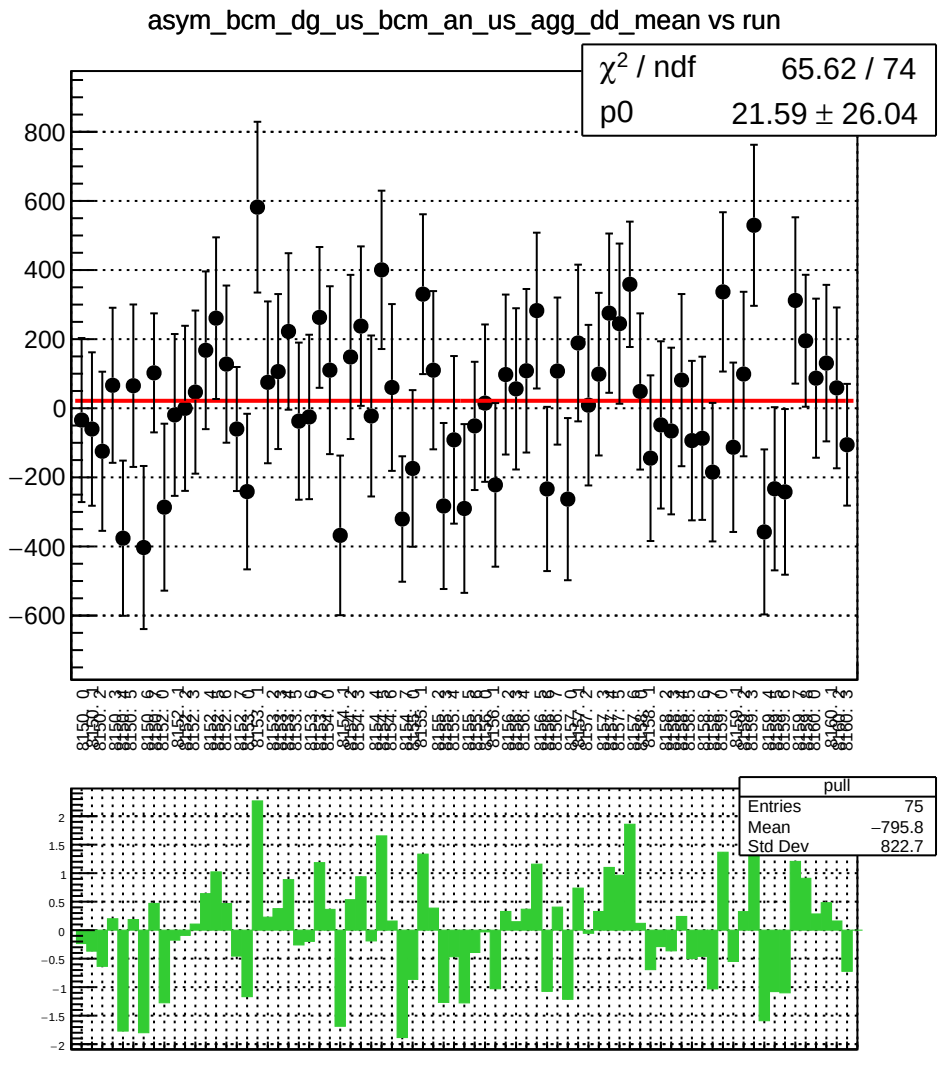

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.77 / 74
p0 14.12 ± 19.62
pull
Entries 75
Mean 120.5
Std Dev 90.78

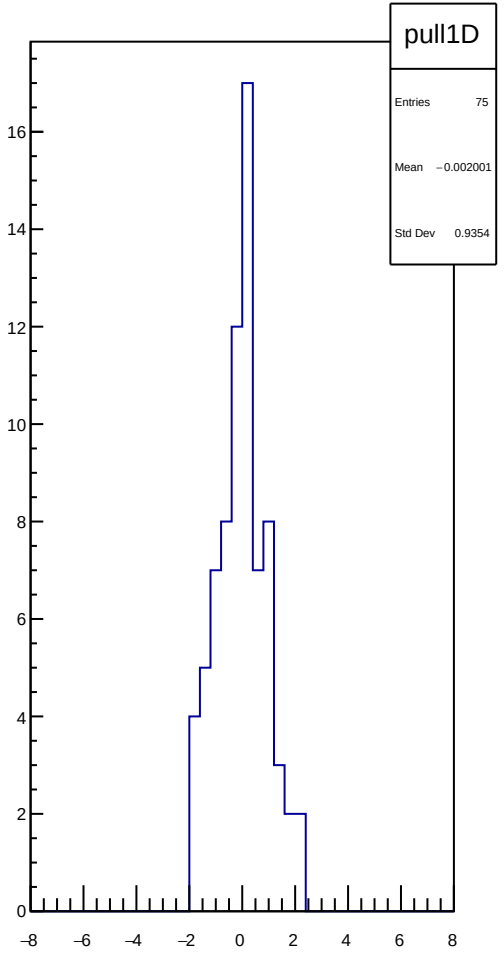

pull1D
Entries 75
Mean 0.006298
Std Dev 1.063

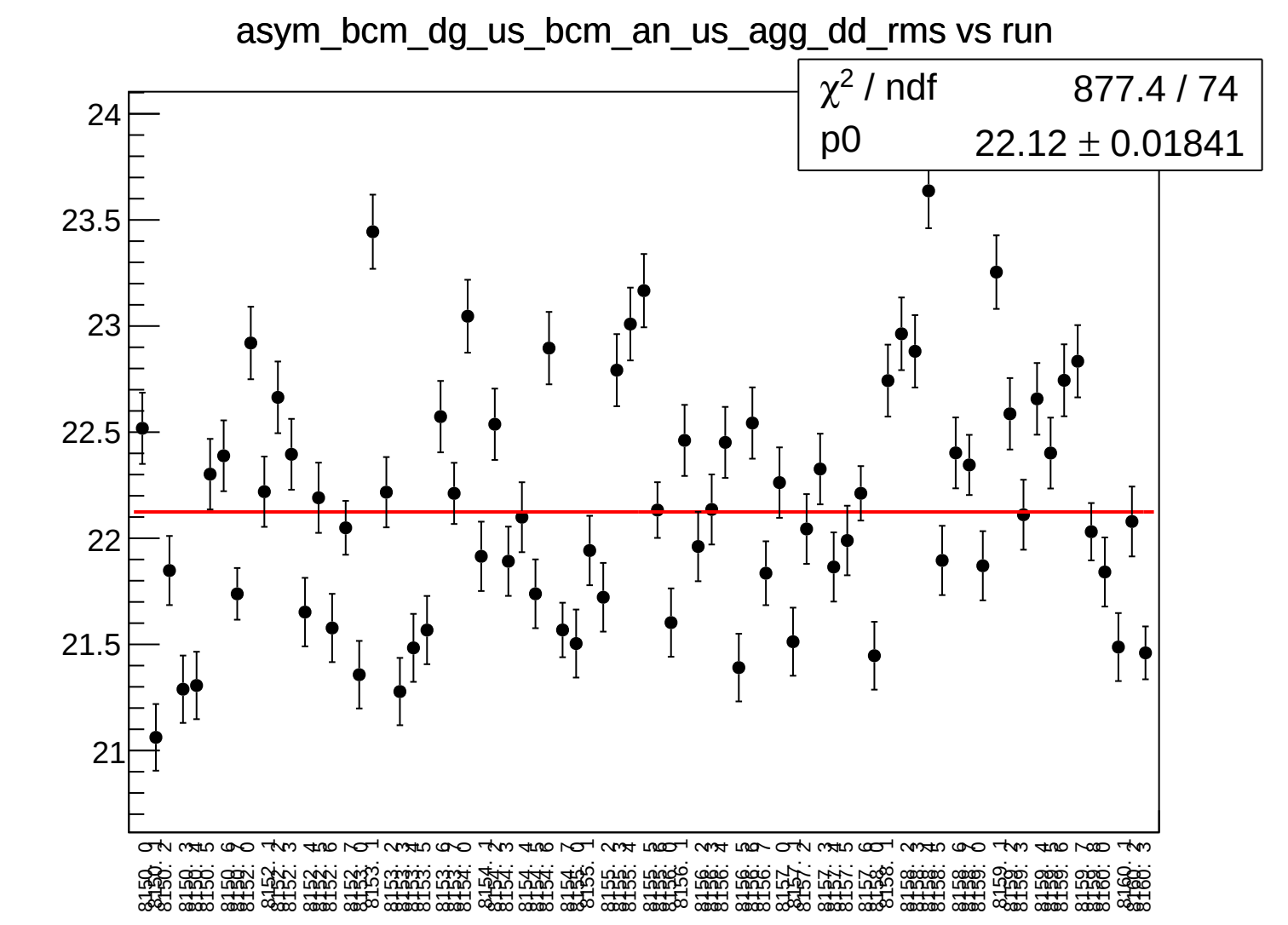

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1731 / 74
p0 16.67 ± 0.01388
18.5
18
17.5
17
16.5
16
15.5
15

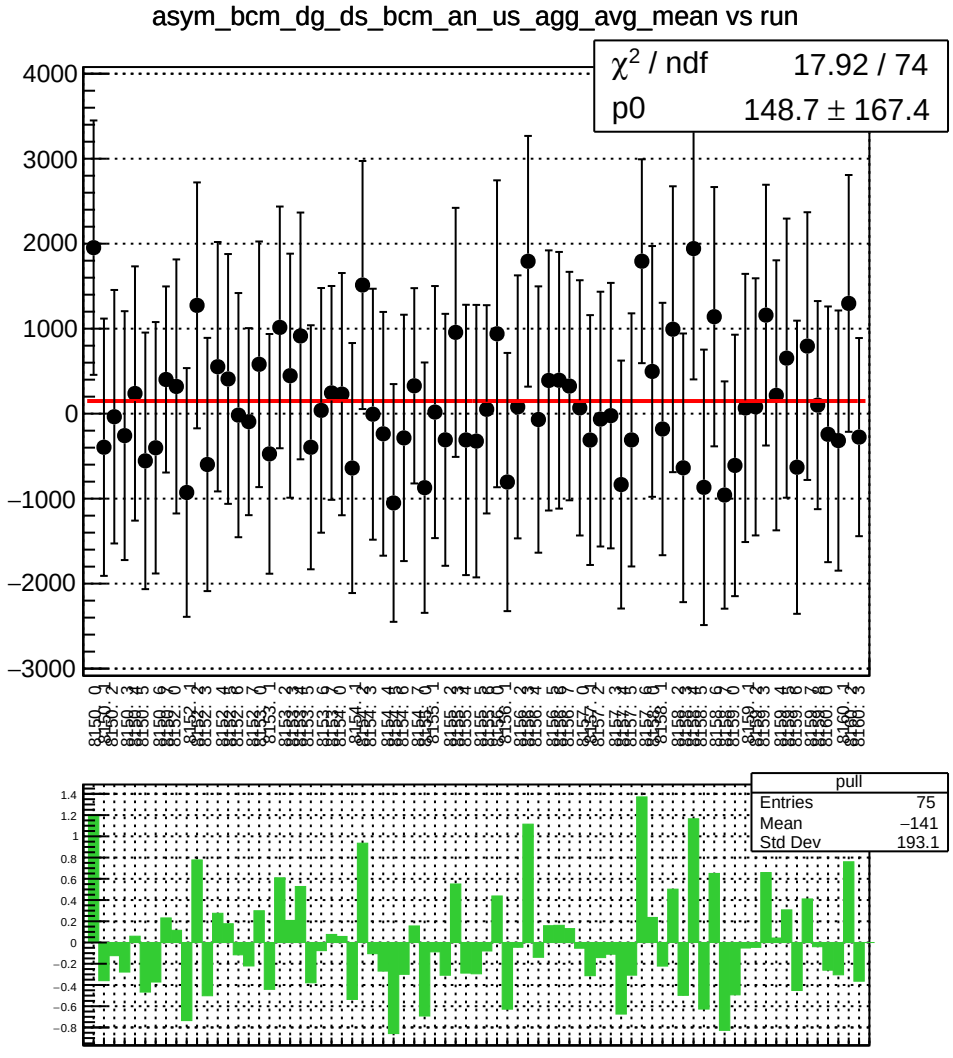

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.18 / 74
p0 149.7 ± 168
pull
Entries 75
Mean −171.8
Std Dev 210.9
pull1D
Entries 75
Mean −0.002985
Std Dev 0.4786

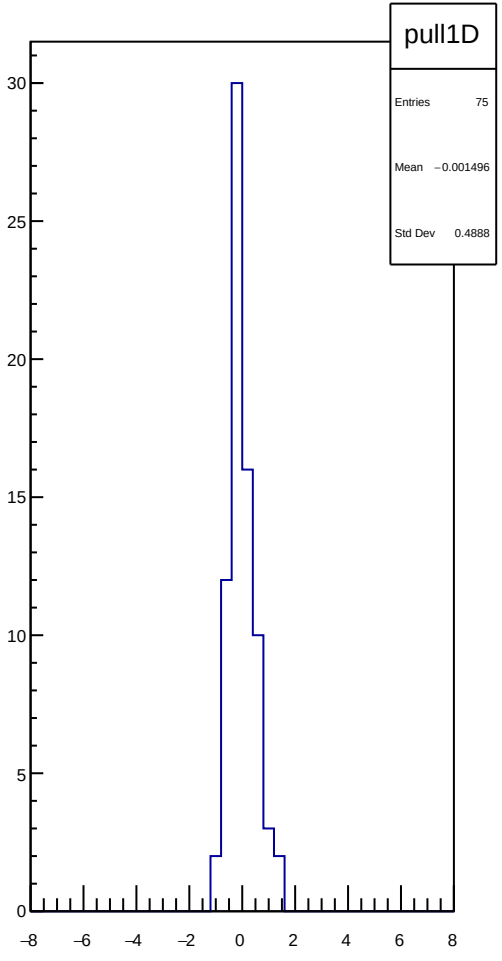

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2631 / 74
p0 142.7 ± 0.1188
175
170
165
160
155
150
145
140
135
130

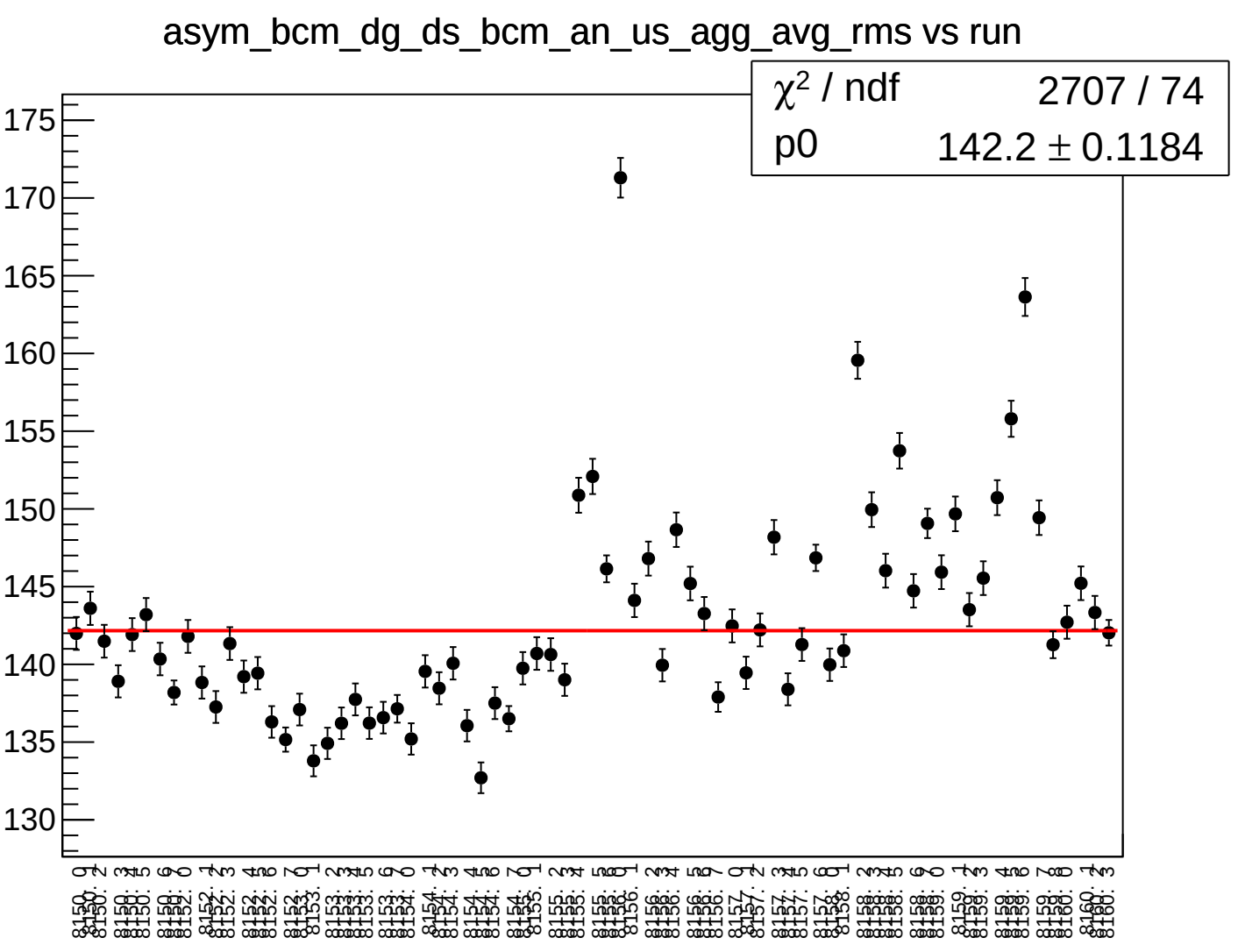

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.62 / 74
p0 21.59 ± 26.04
pull
Entries 75
Mean −795.8
Std Dev 822.7

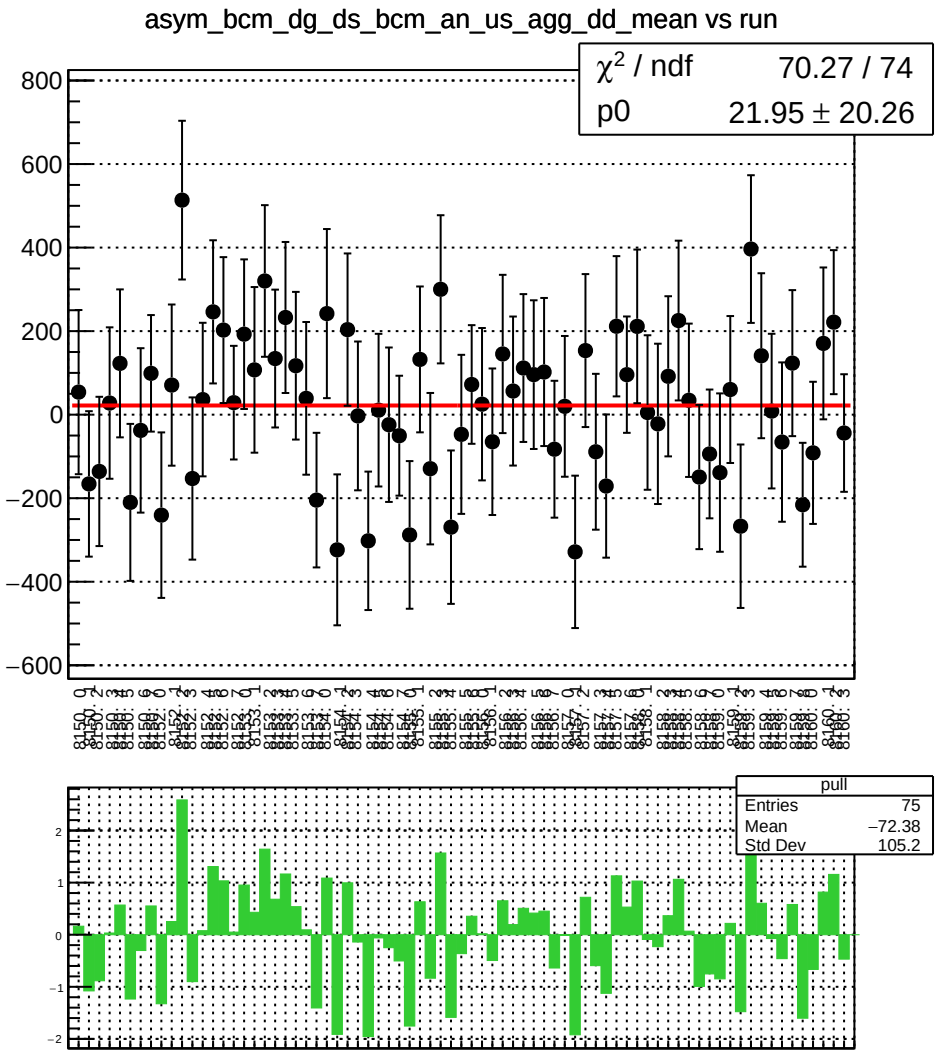

pull1D
Entries 75
Mean −0.002001
Std Dev 0.9354

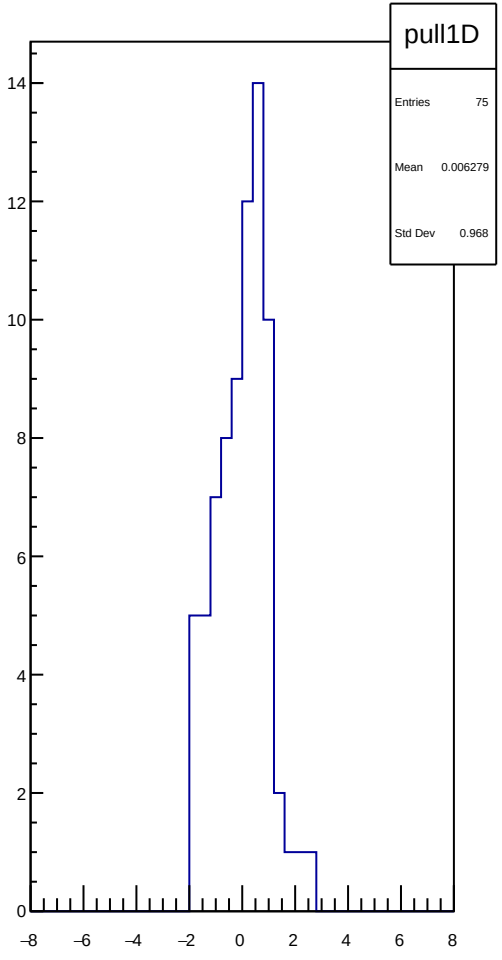

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 877.4 / 74
p0 22.12 ± 0.01841
24
23.5
23
22.5
22
21.5
21

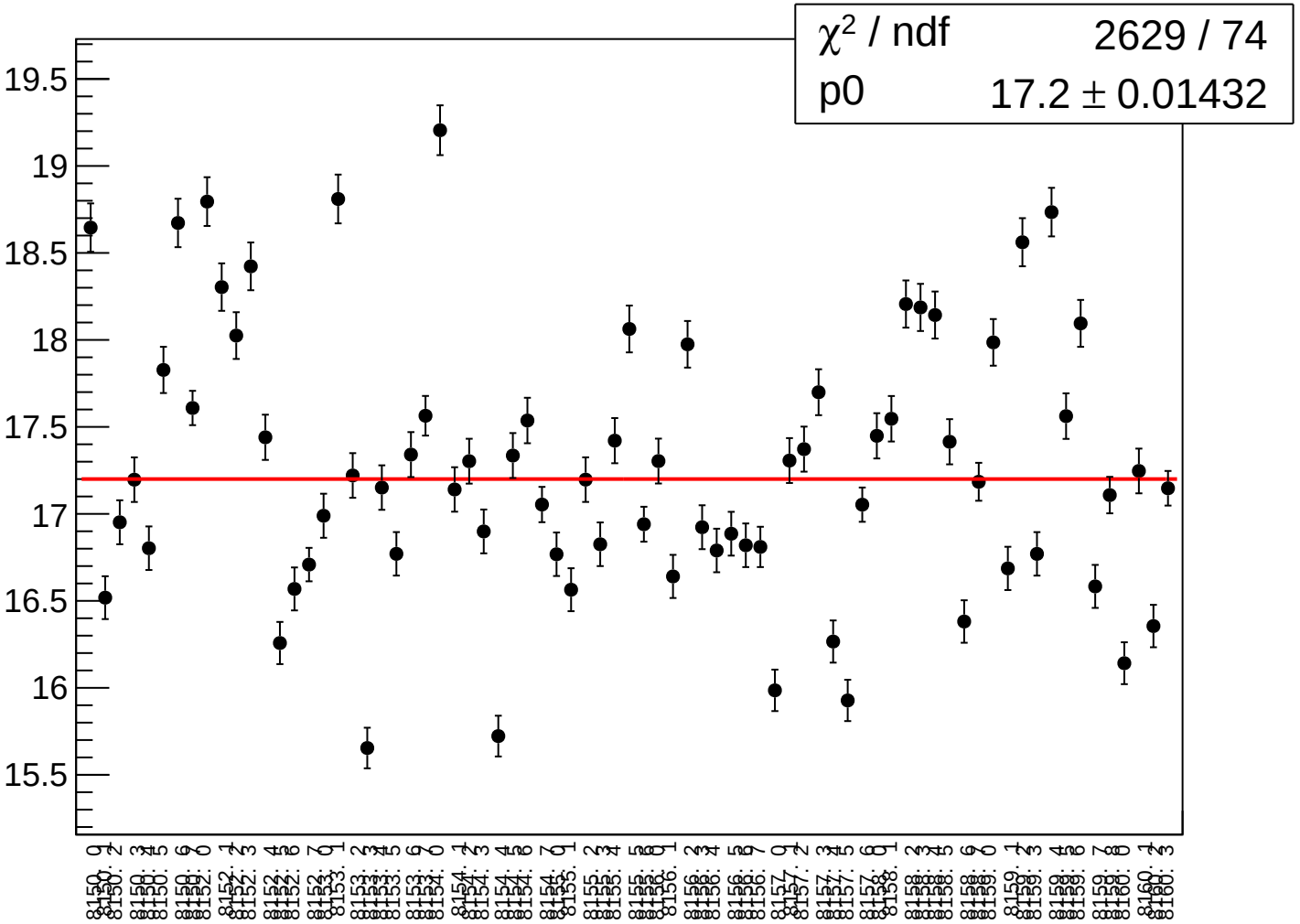

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.92 / 74
p0 148.7 ± 167.4
pull
Entries 75
Mean −141
Std Dev 193.1

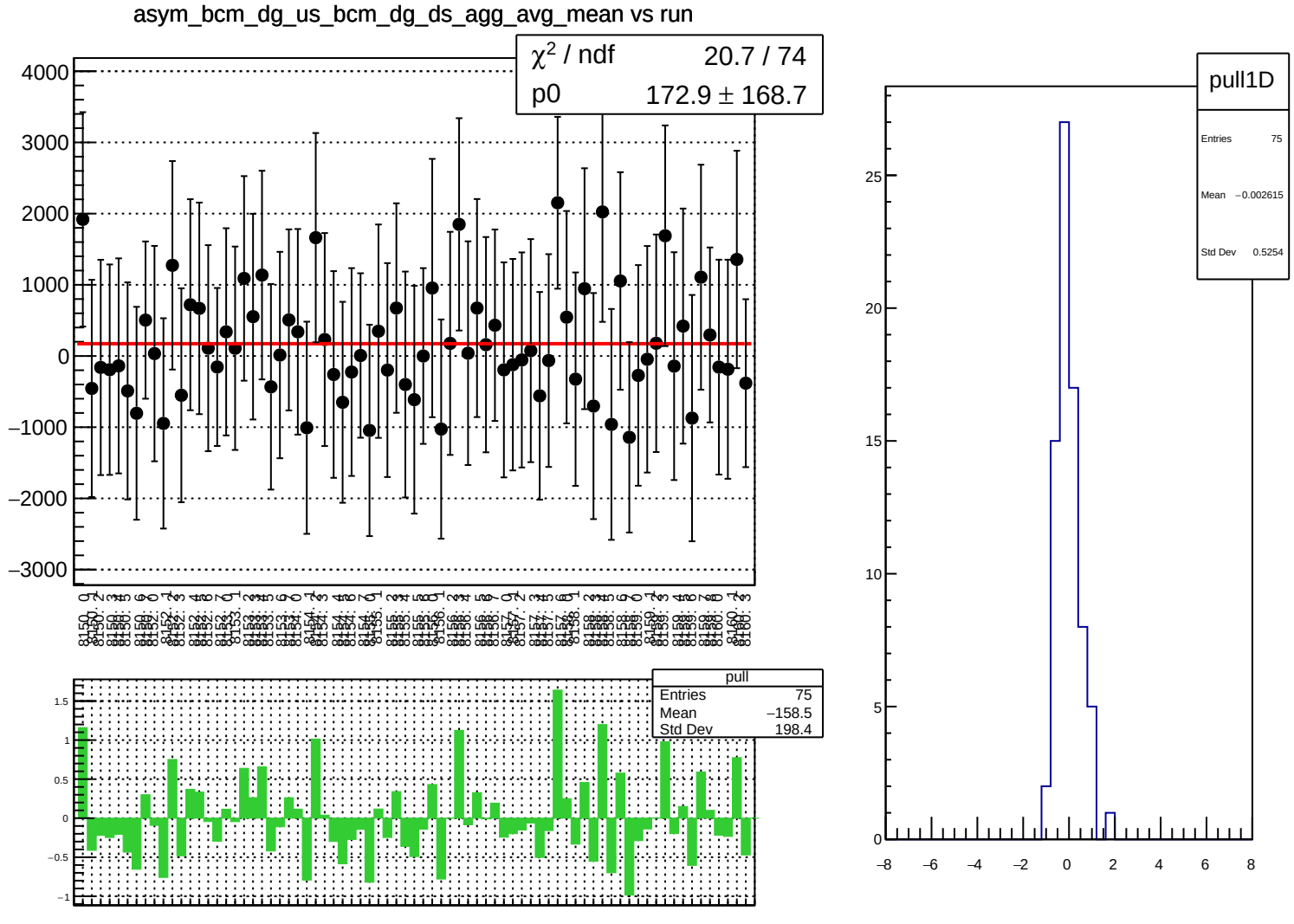

pull1D
Entries 75
Mean −0.001496
Std Dev 0.4888

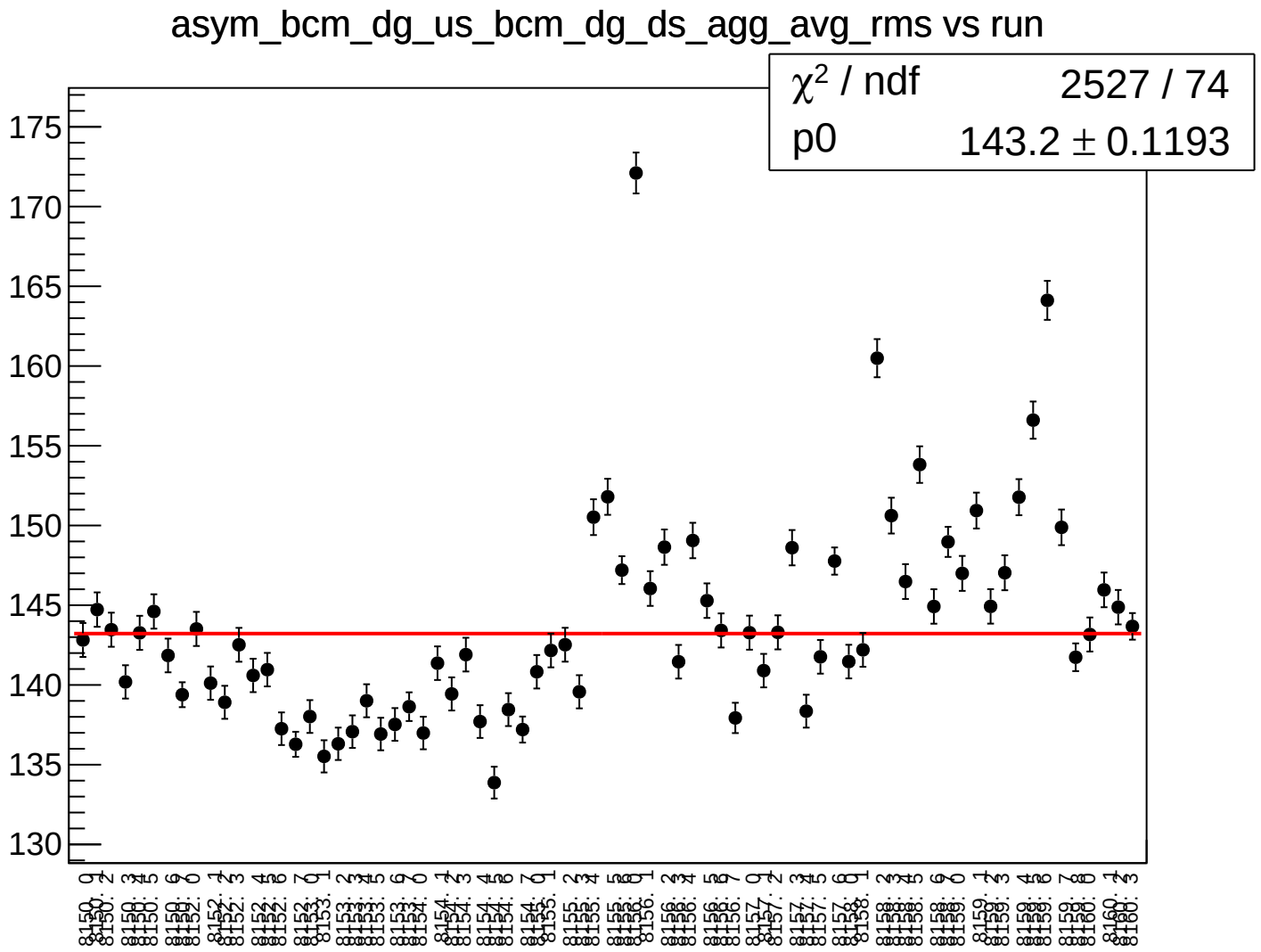

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2707 / 74
p0 142.2 ± 0.1184
175
170
165
160
155
150
145
140
135
130

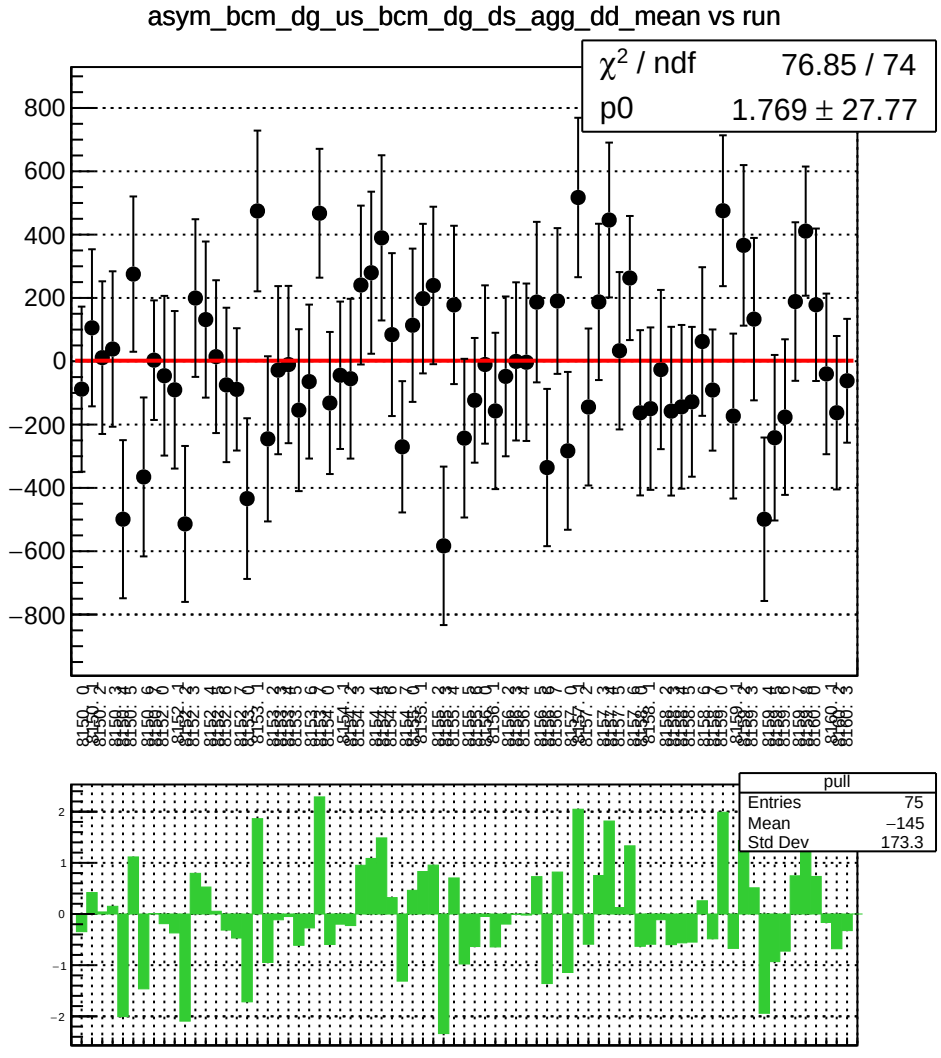

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 70.27 / 74
p0 21.95 ± 20.26
pull
Entries 75
Mean −72.38
Std Dev 105.2

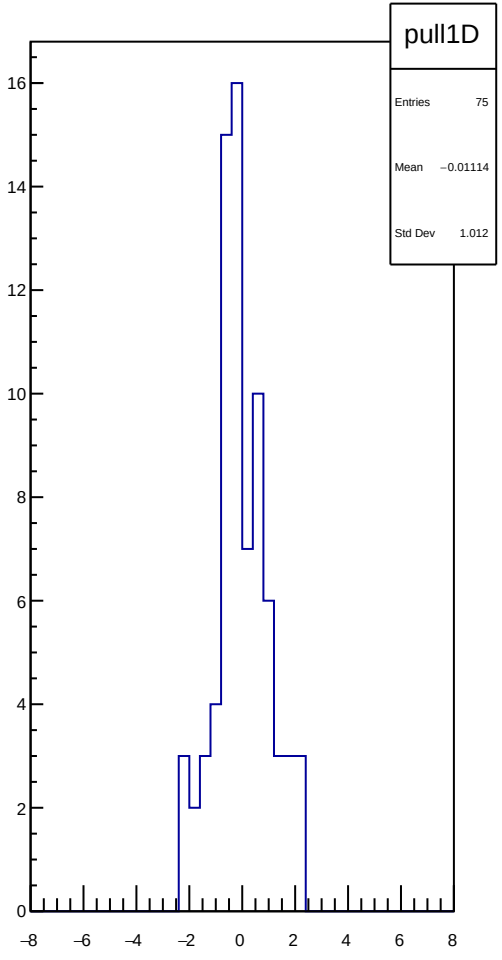

pull1D
Entries 75
Mean 0.006279
Std Dev 0.968

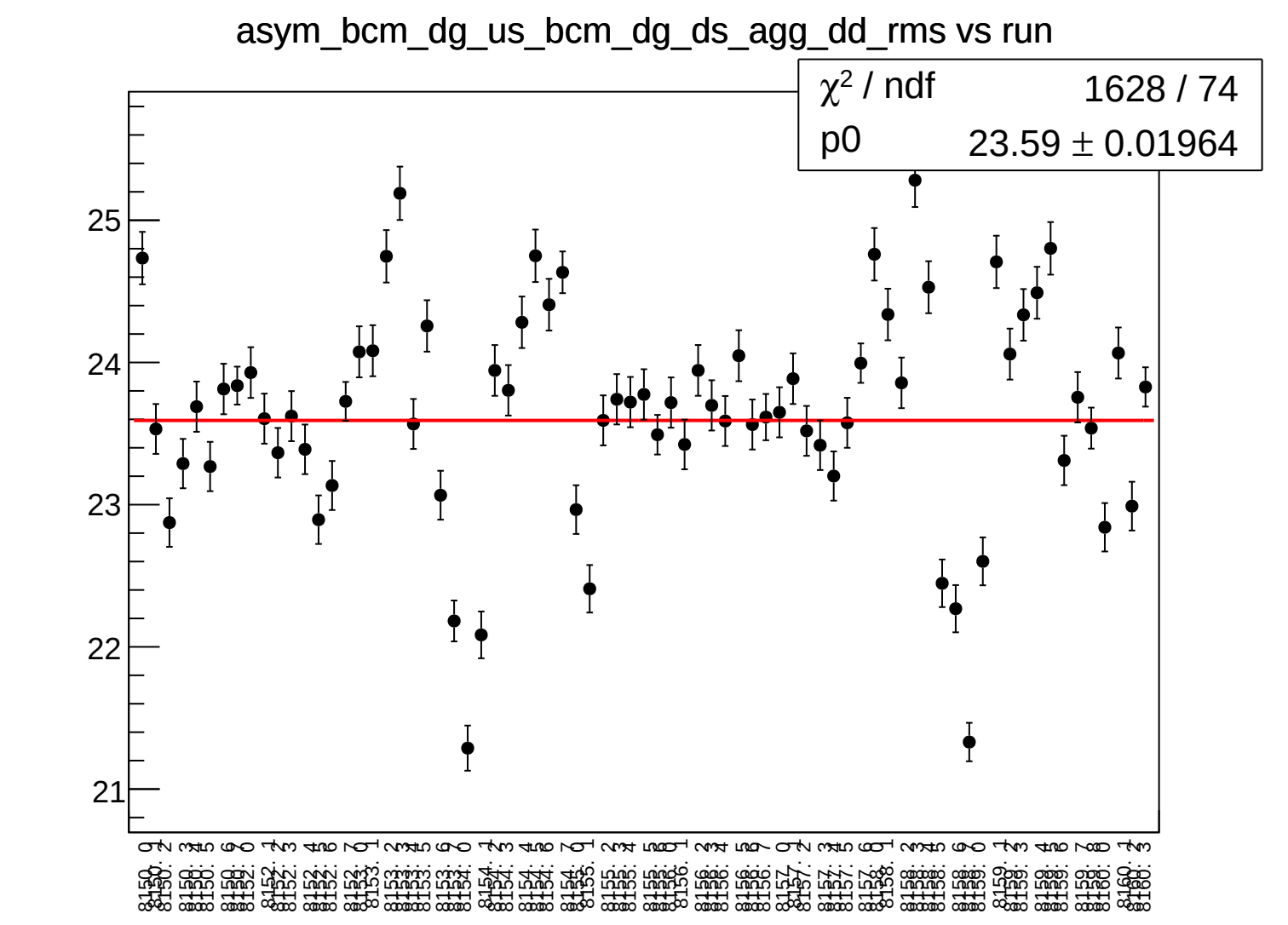

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2629 / 74
p0 17.2 ± 0.01432
19.5
19
18.5
18
17.5
17
16.5
16
15.5

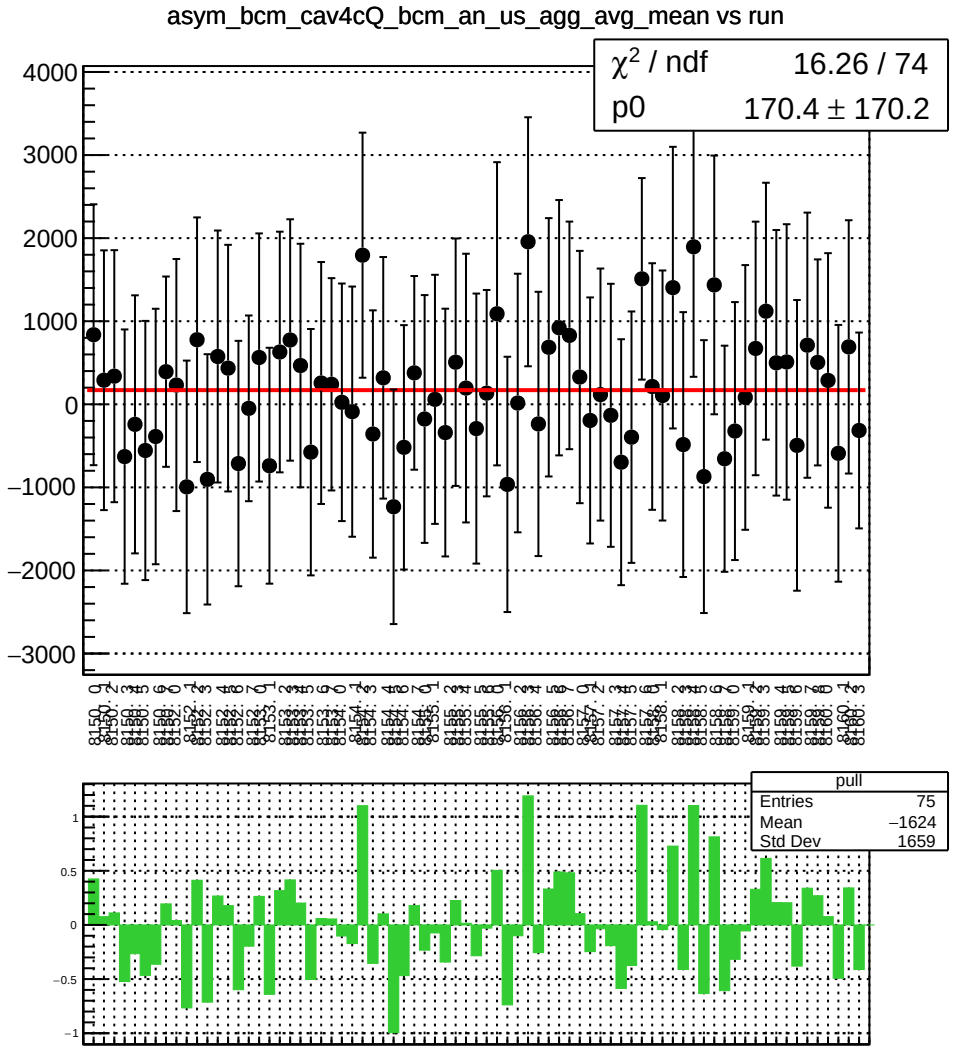

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 20.7 / 74
p0 172.9 ± 168.7
pull
Entries 75
Mean −158.5
Std Dev 198.4
pull1D
Entries 75
Mean −0.002615
Std Dev 0.5254

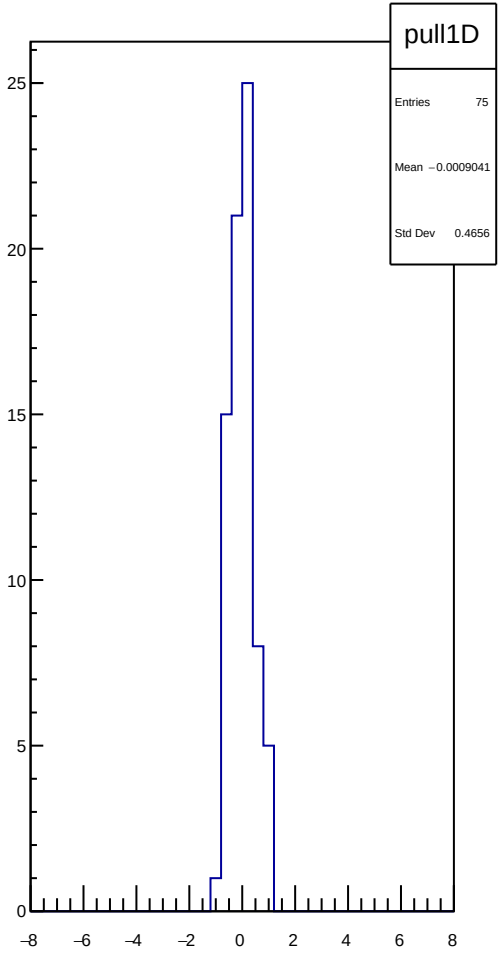

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2527 / 74
p0 143.2 ± 0.1193
175
170
165
160
155
150
145
140
135
130

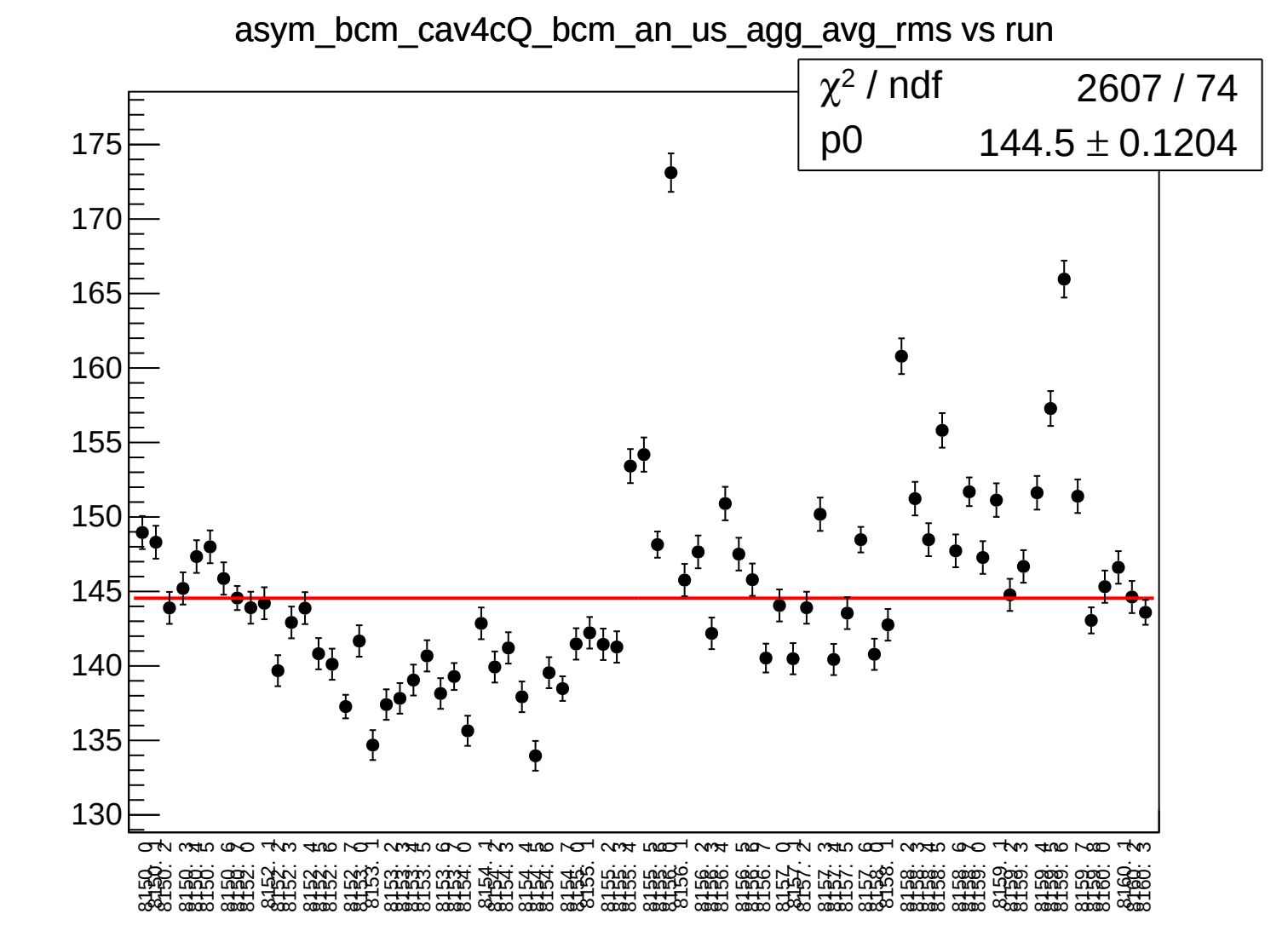

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.85 / 74
p0 1.769 ± 27.77
pull
Entries 75
Mean −145
Std Dev 173.3

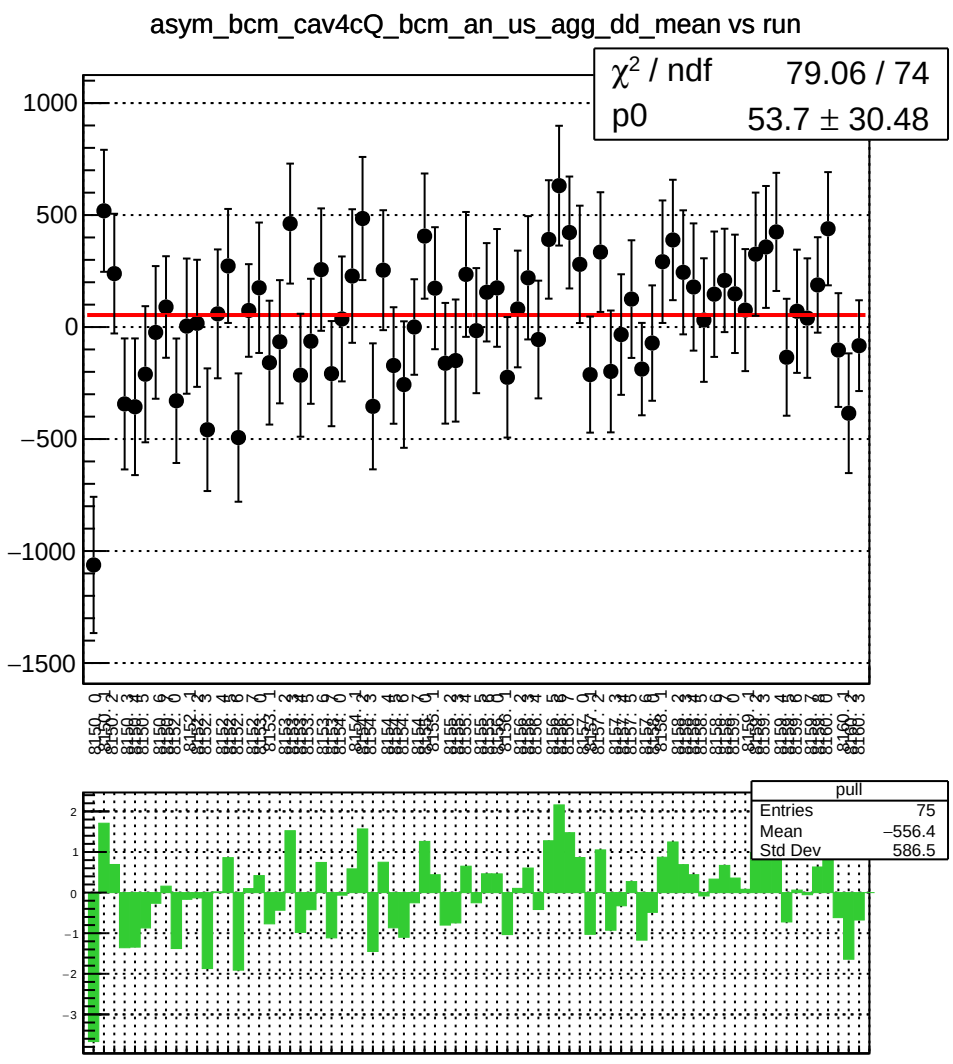

pull1D
Entries 75
Mean −0.01114
Std Dev 1.012

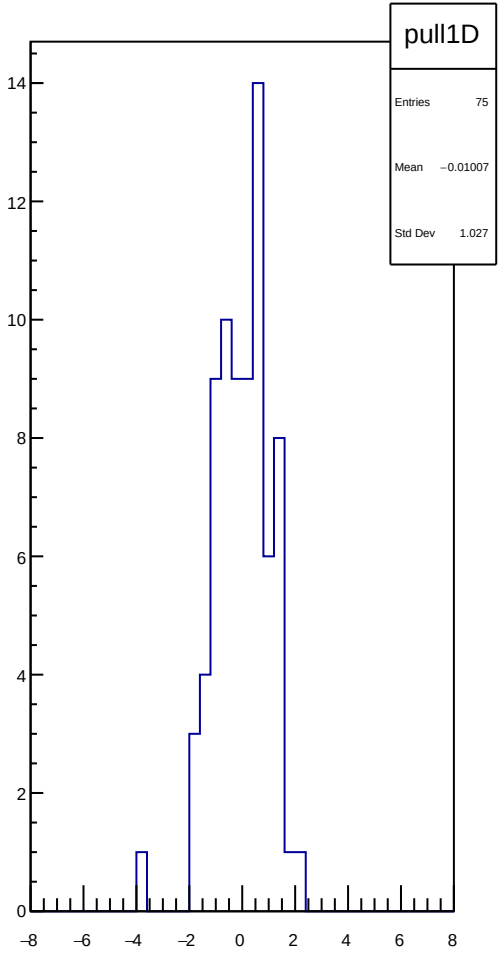

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1628 / 74
p0 23.59 ± 0.01964
25
24
23
22
21

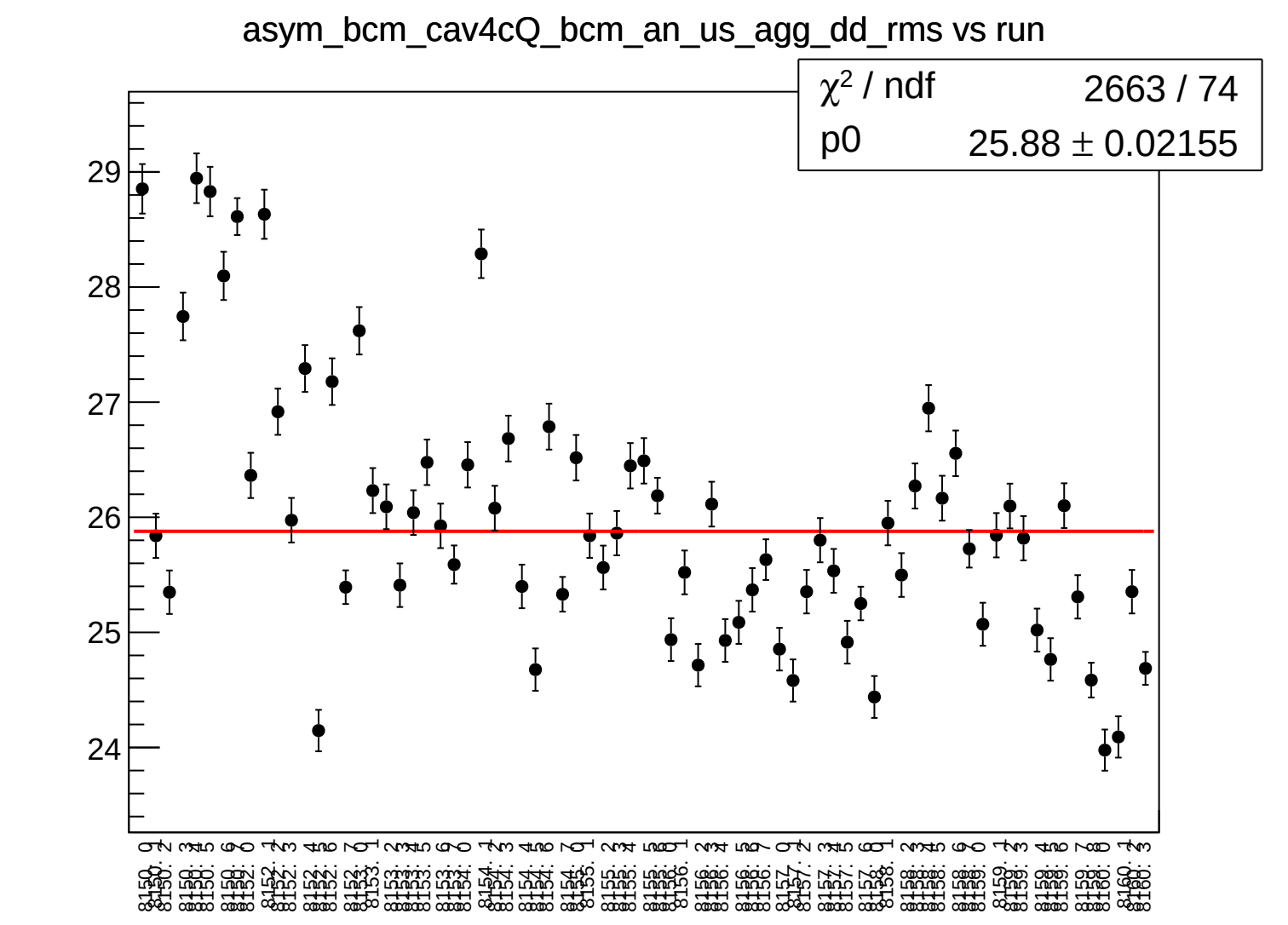

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.26 / 74
p0 170.4 ± 170.2
pull
Entries 75
Mean −1624
Std Dev 1659

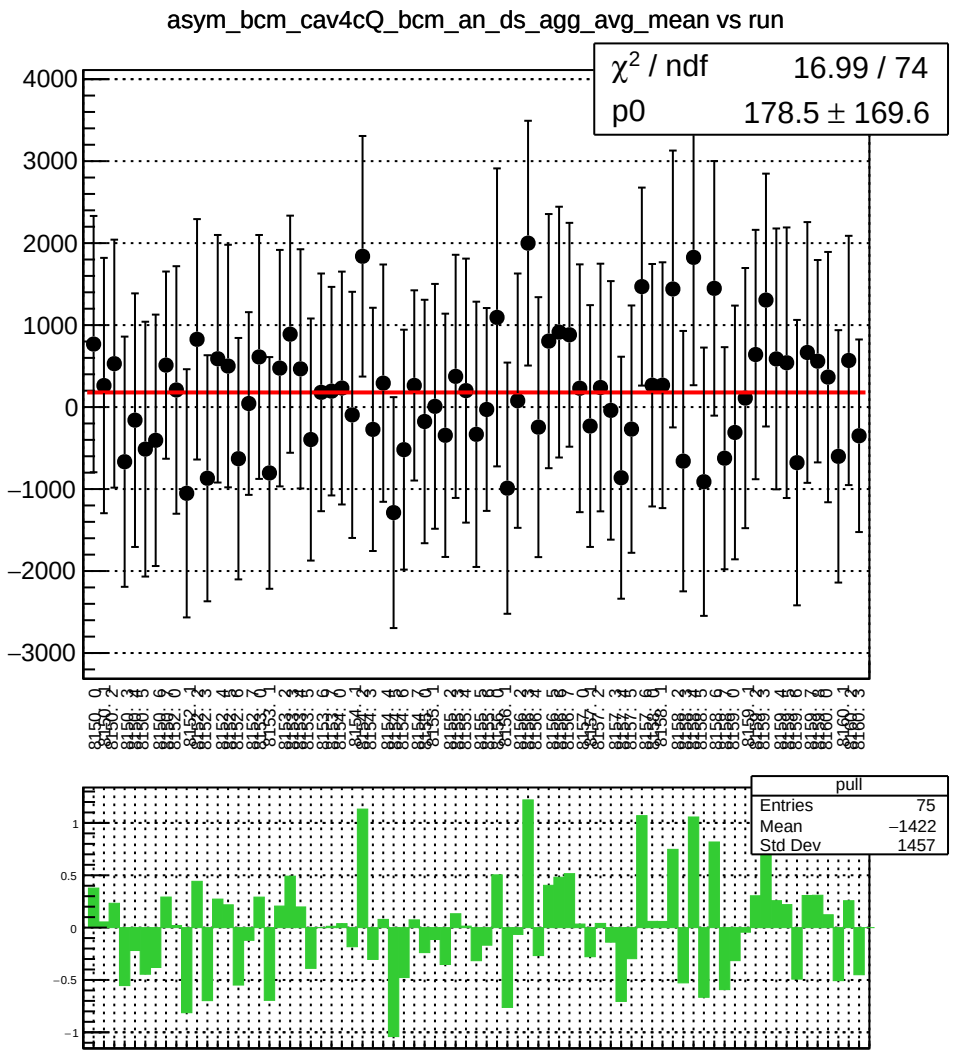

pull1D
Entries 75
Mean −0.0009041
Std Dev 0.4656

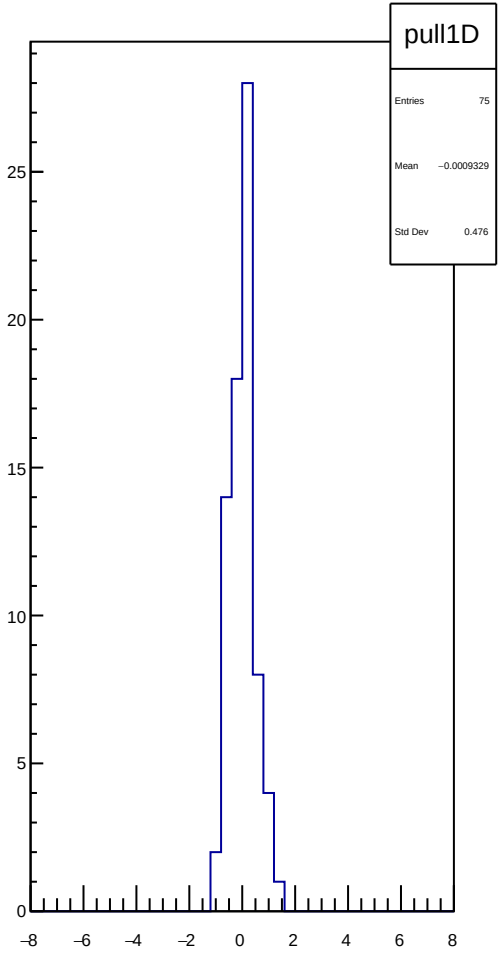

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2607 / 74
p0 144.5 ± 0.1204
175
170
165
160
155
150
145
140
135
130

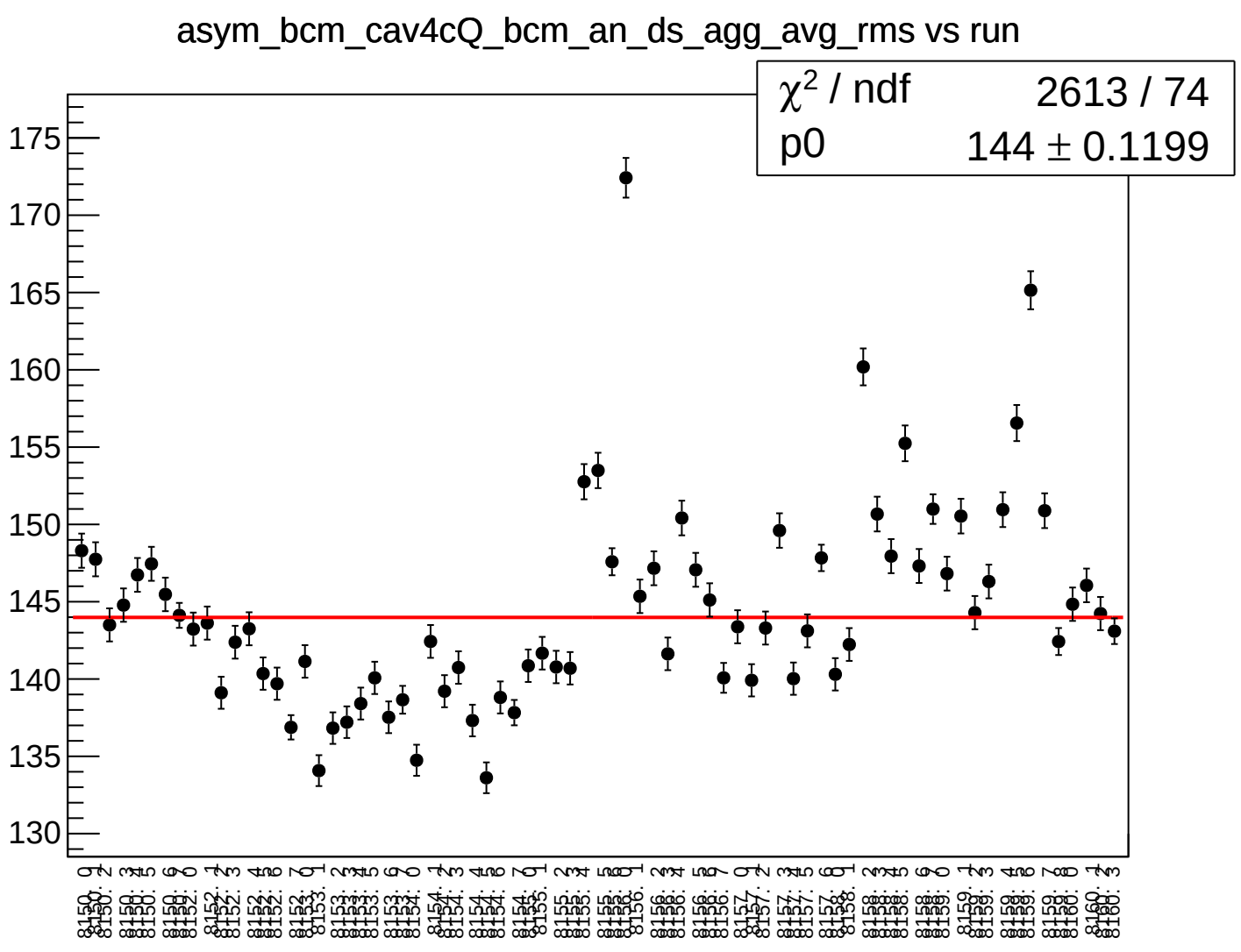

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 79.06 / 74
p0 53.7 ± 30.48
1000
500
0
−500
−1000
−1500
pull
Entries 75
Mean −556.4
Std Dev 586.5
2
1
0
−1
−2
−3

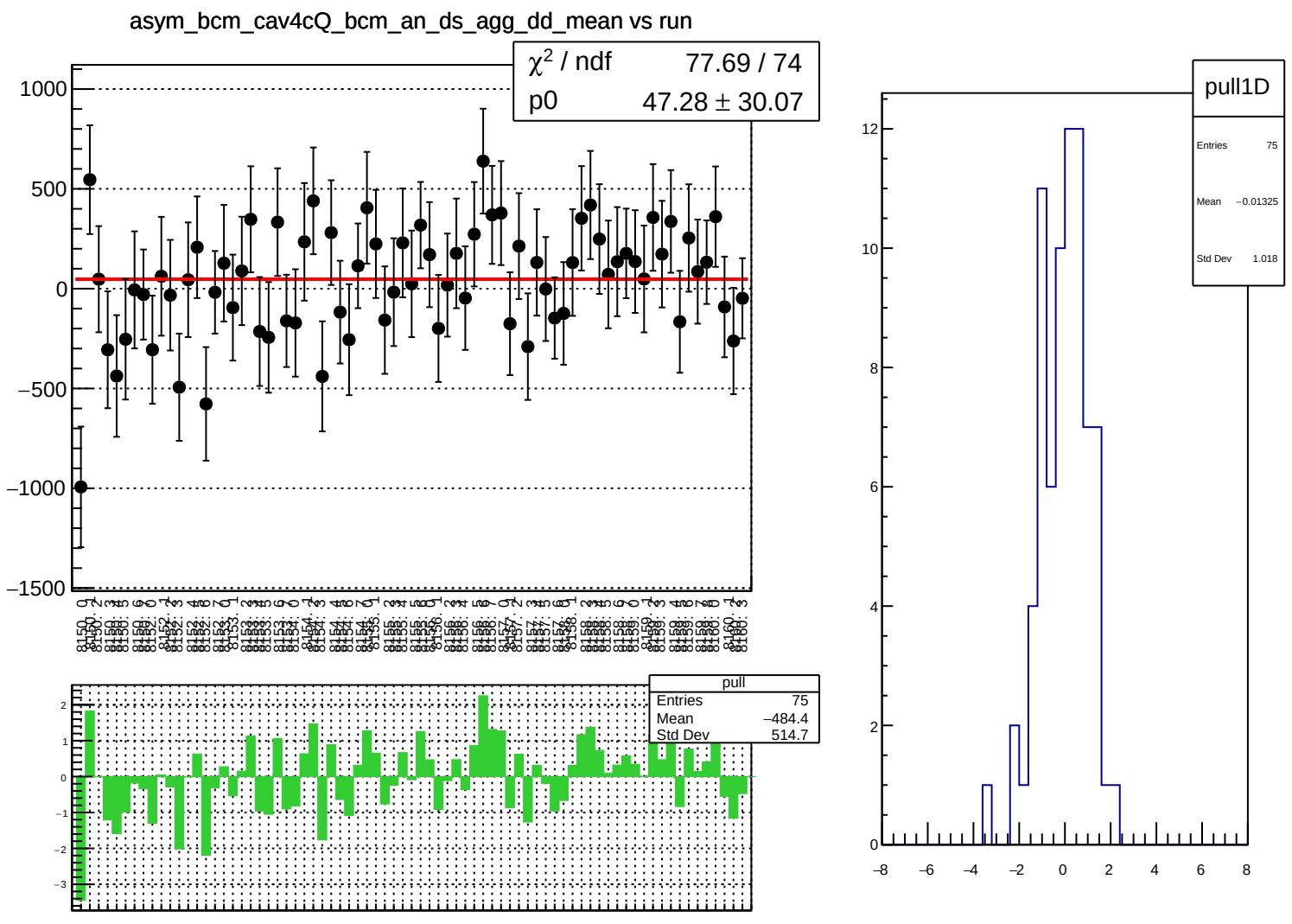

pull1D
Entries 75
Mean −0.01007
Std Dev 1.027
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

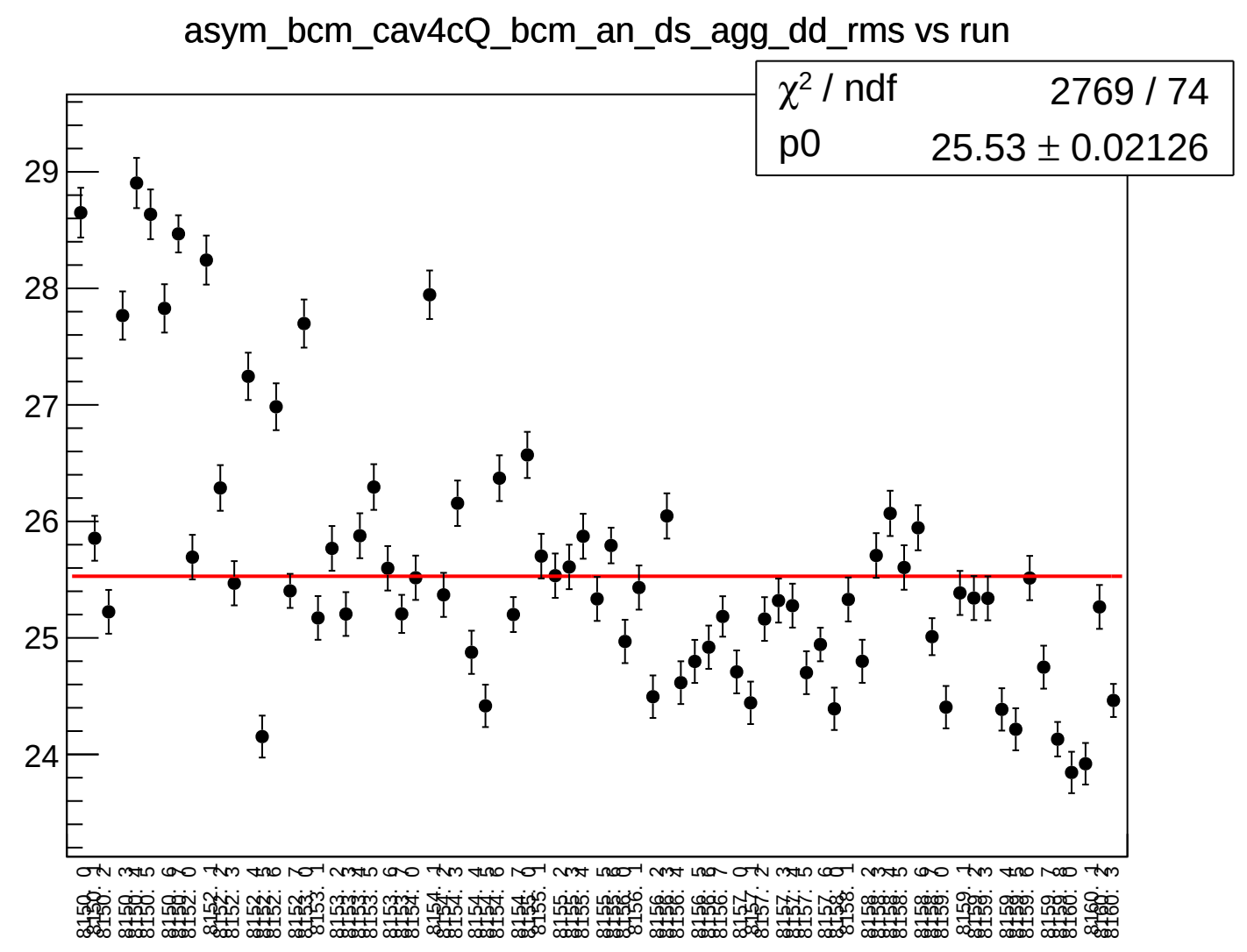

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2663 / 74
p0 25.88 ± 0.02155
29
28
27
26
25
24

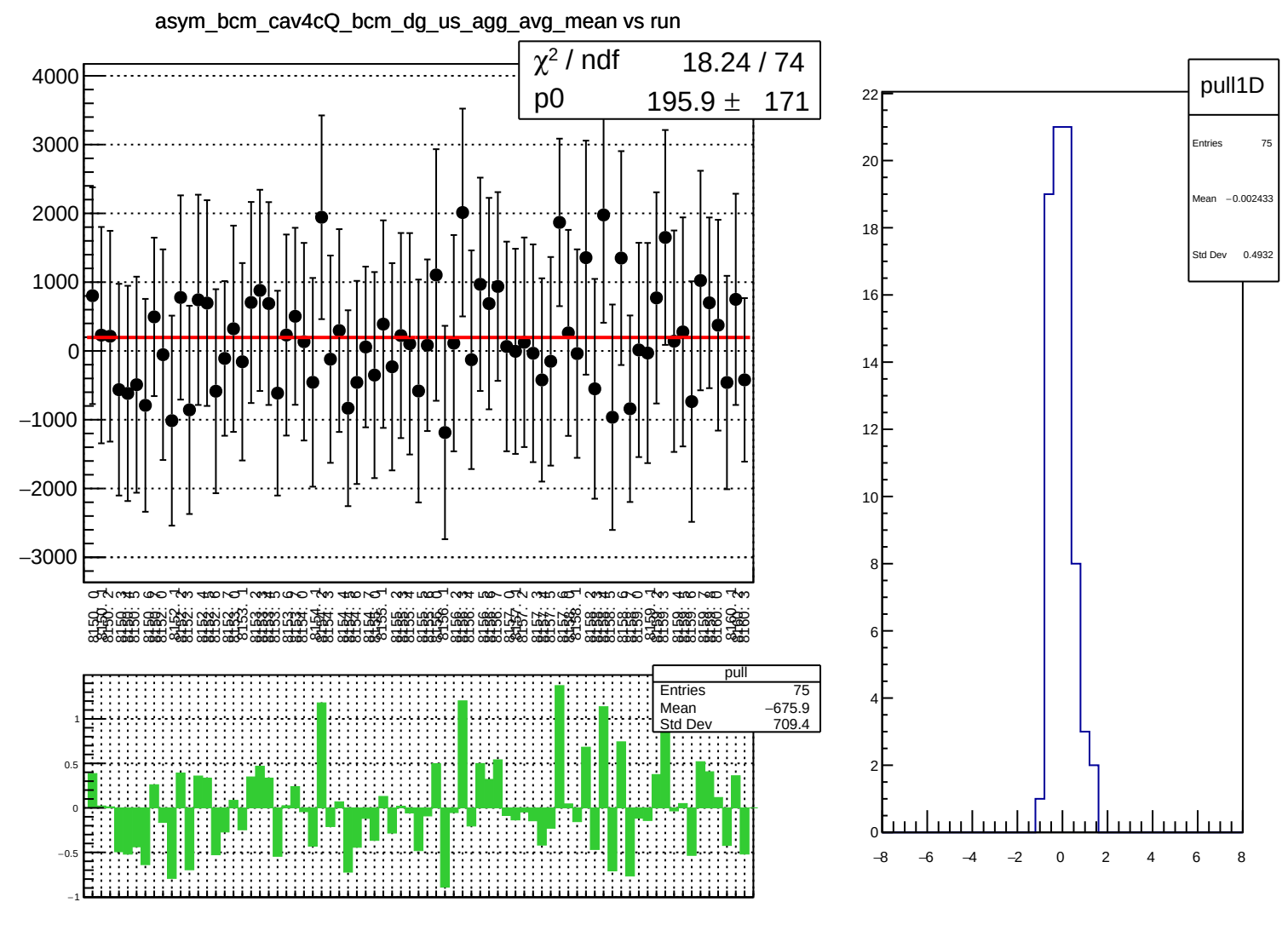

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.99 / 74
p0 178.5 ± 169.6
pull
Entries 75
Mean −1422
Std Dev 1457

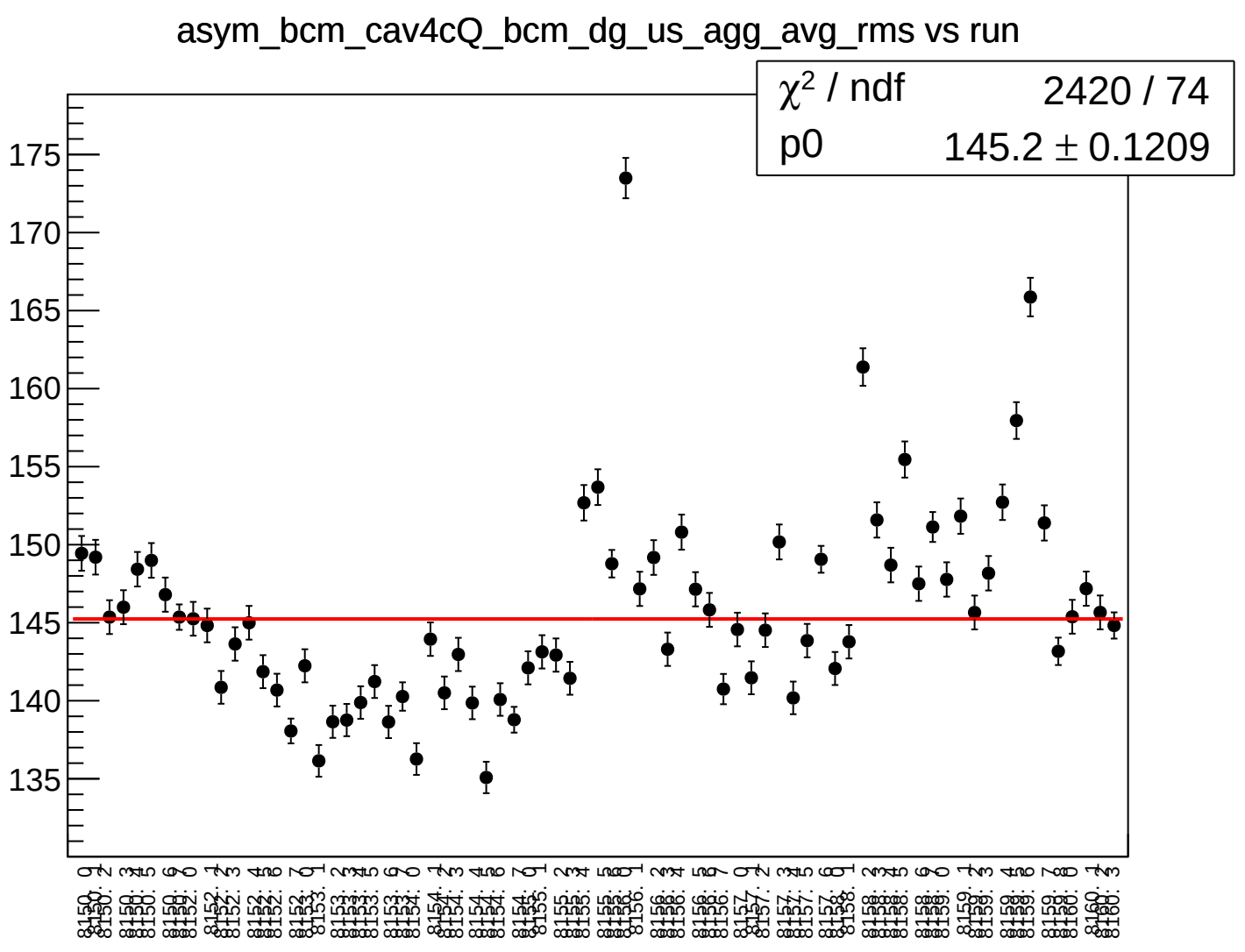

pull1D
Entries 75
Mean −0.0009329
Std Dev 0.476

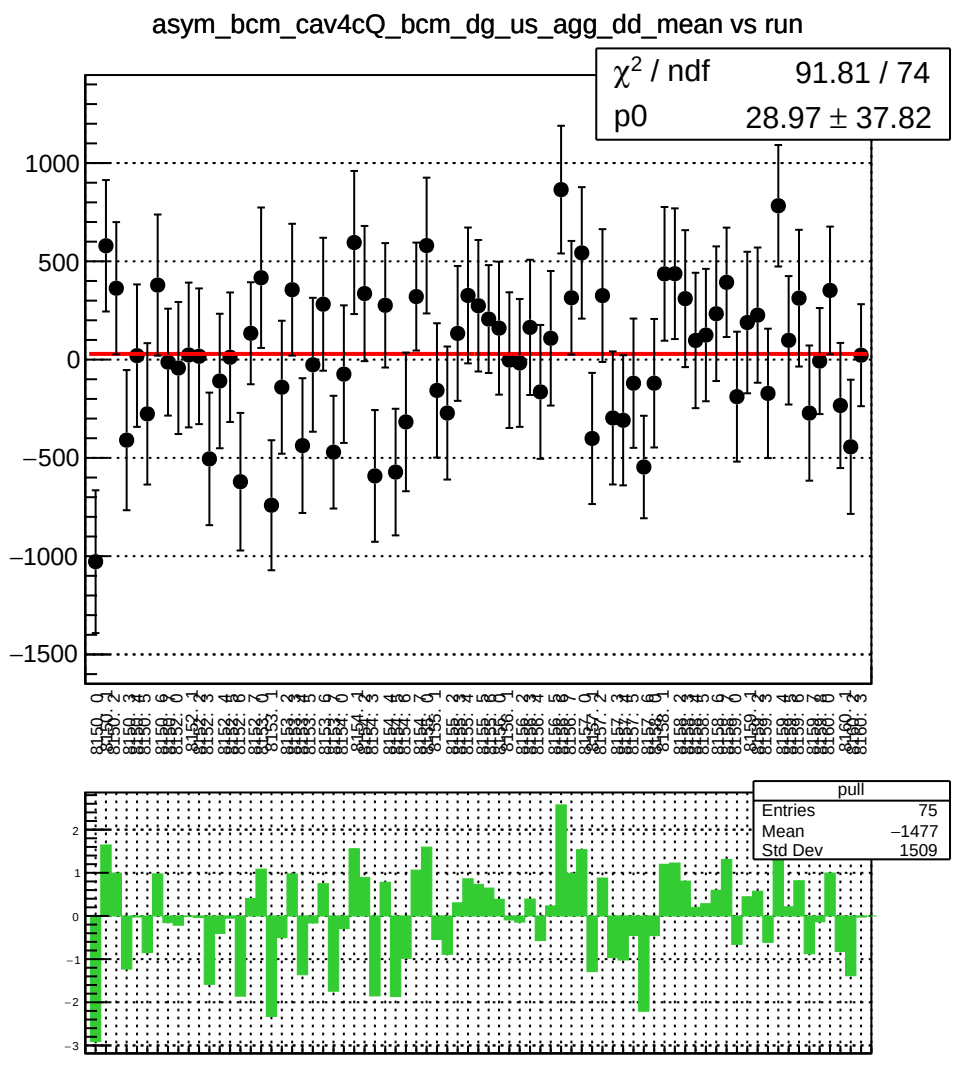

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2613 / 74
p0 144 ± 0.1199
175
170
165
160
155
150
145
140
135
130

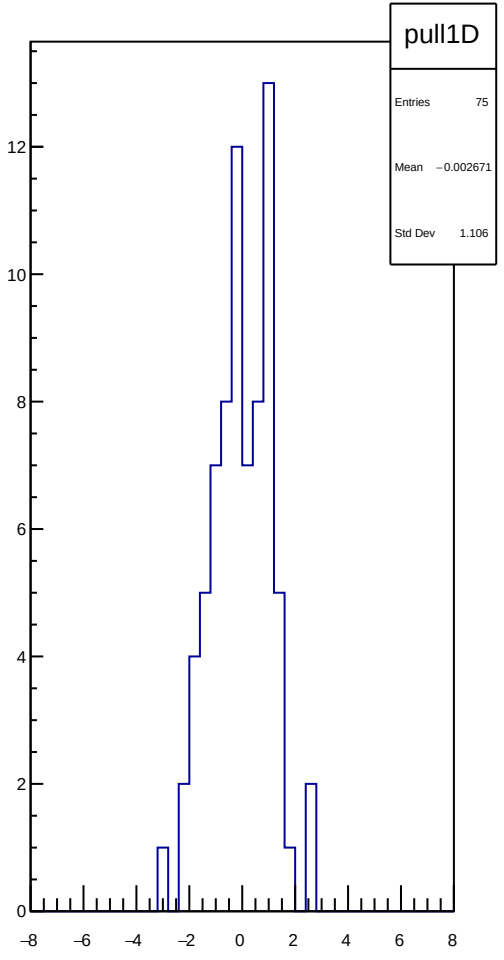

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.69 / 74
p0 47.28 ± 30.07
pull
Entries 75
Mean −484.4
Std Dev 514.7
pull1D
Entries 75
Mean −0.01325
Std Dev 1.018

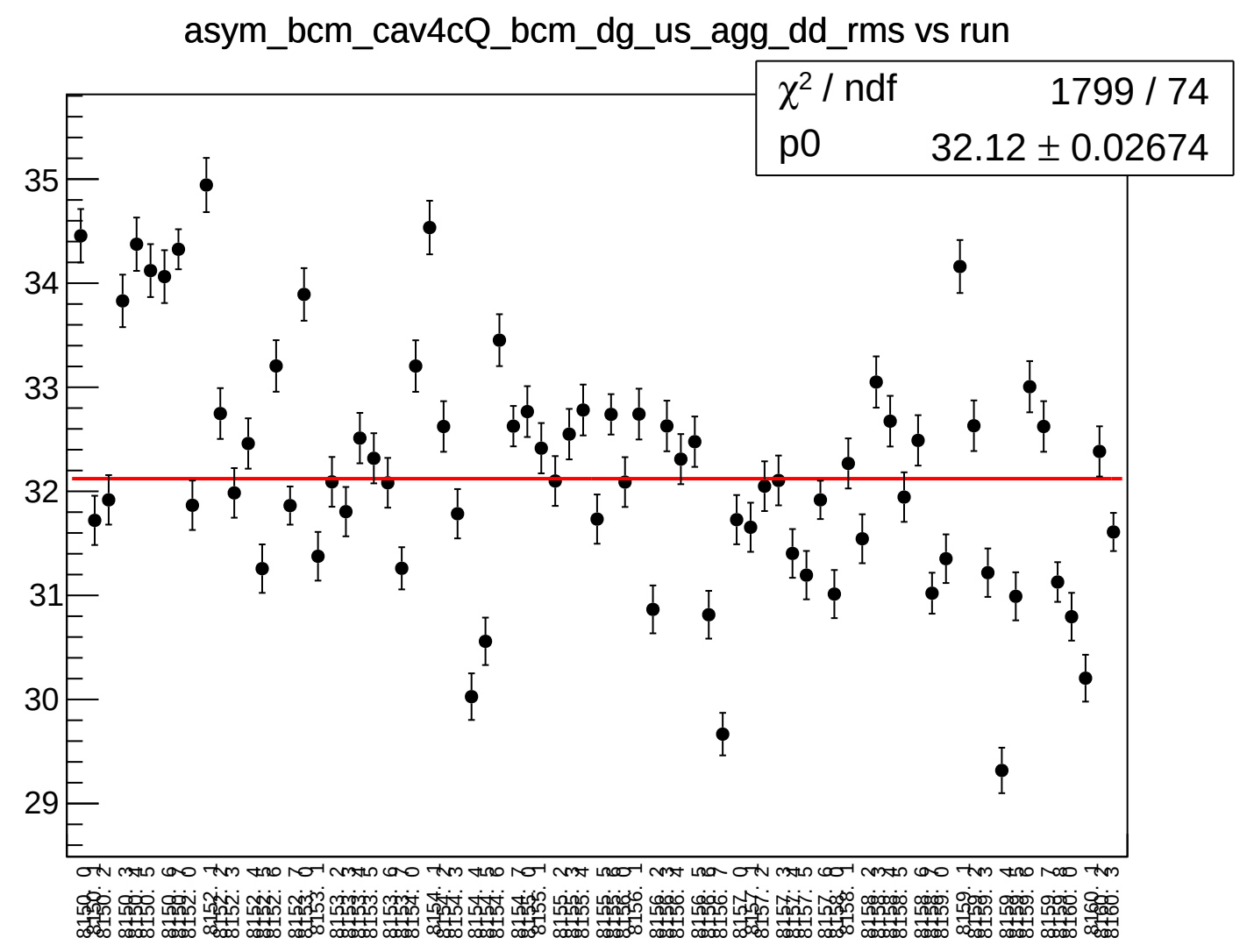

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2769 / 74
p0 25.53 ± 0.02126
29
28
27
26
25
24

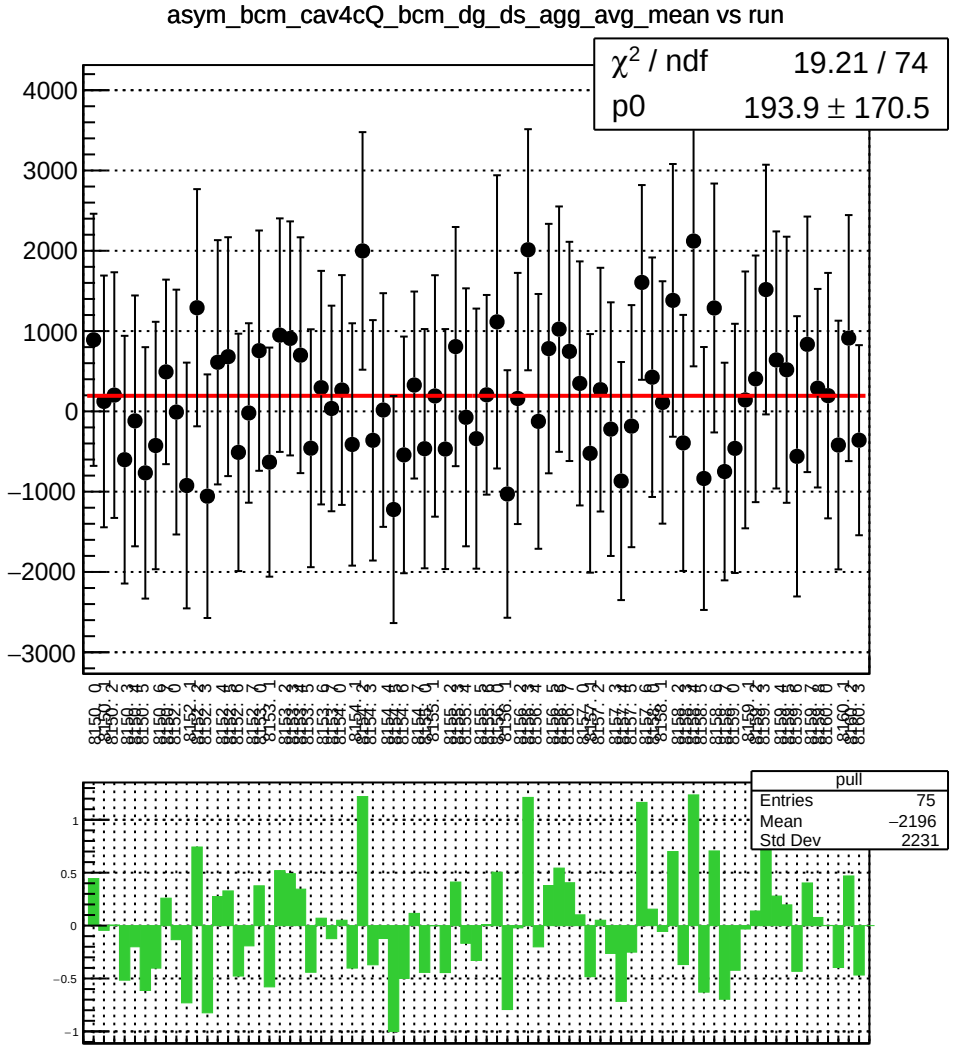

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.24 / 74
p0 195.9 ± 171
pull
Entries 75
Mean −675.9
Std Dev 709.4
pull1D
Entries 75
Mean −0.002433
Std Dev 0.4932

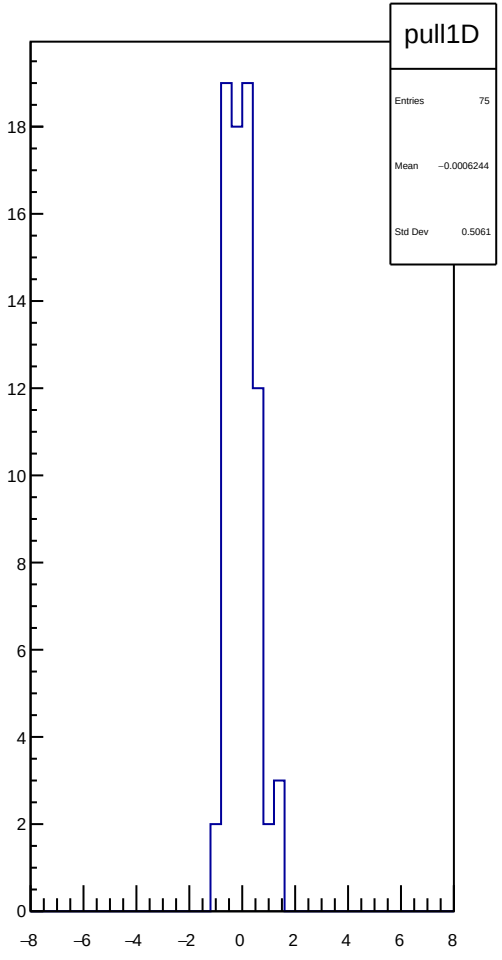

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2420 / 74
p0 145.2 ± 0.1209
175
170
165
160
155
150
145
140
135

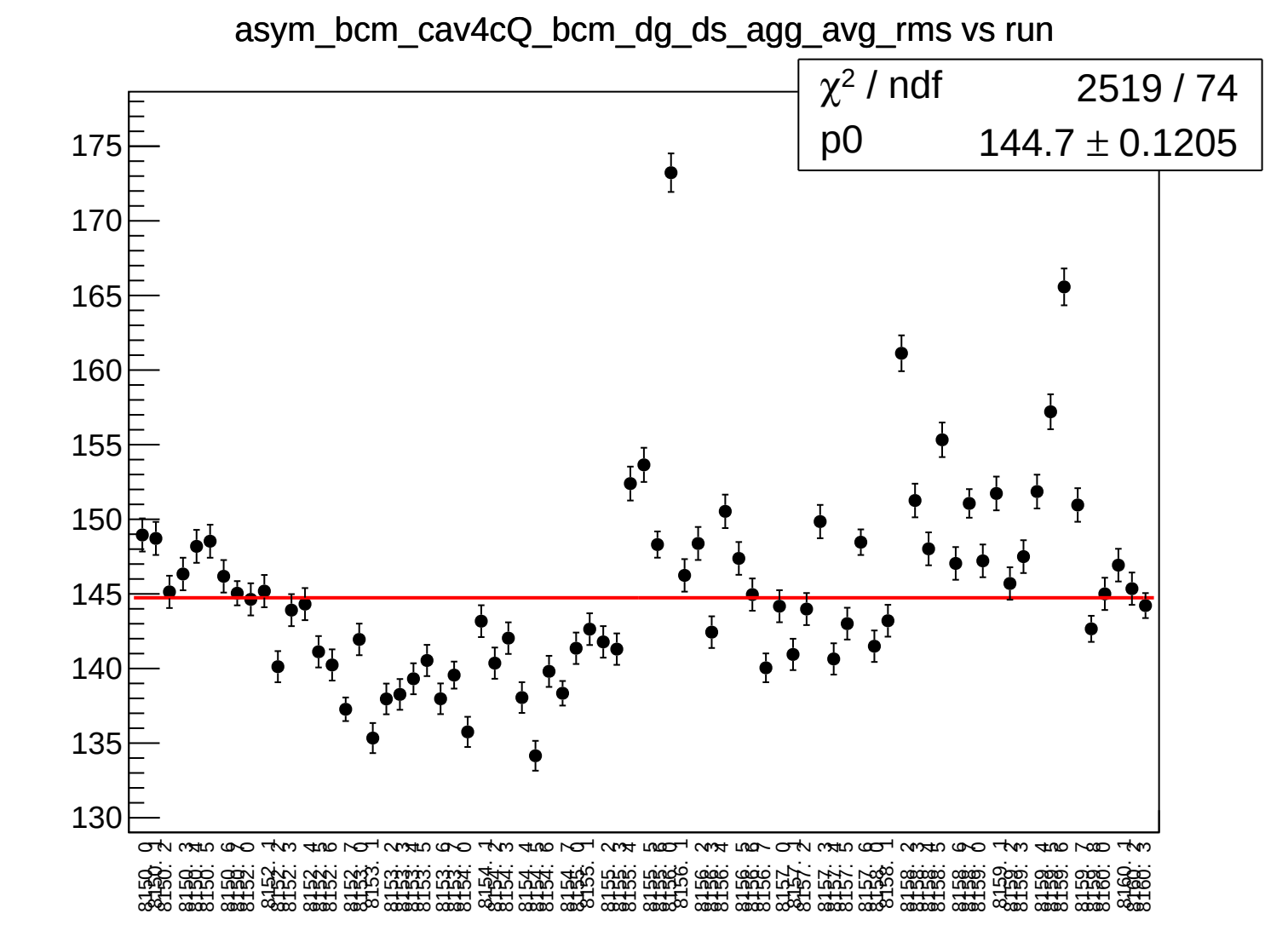

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 91.81 / 74
p0 28.97 ± 37.82
pull
Entries 75
Mean −1477
Std Dev 1509

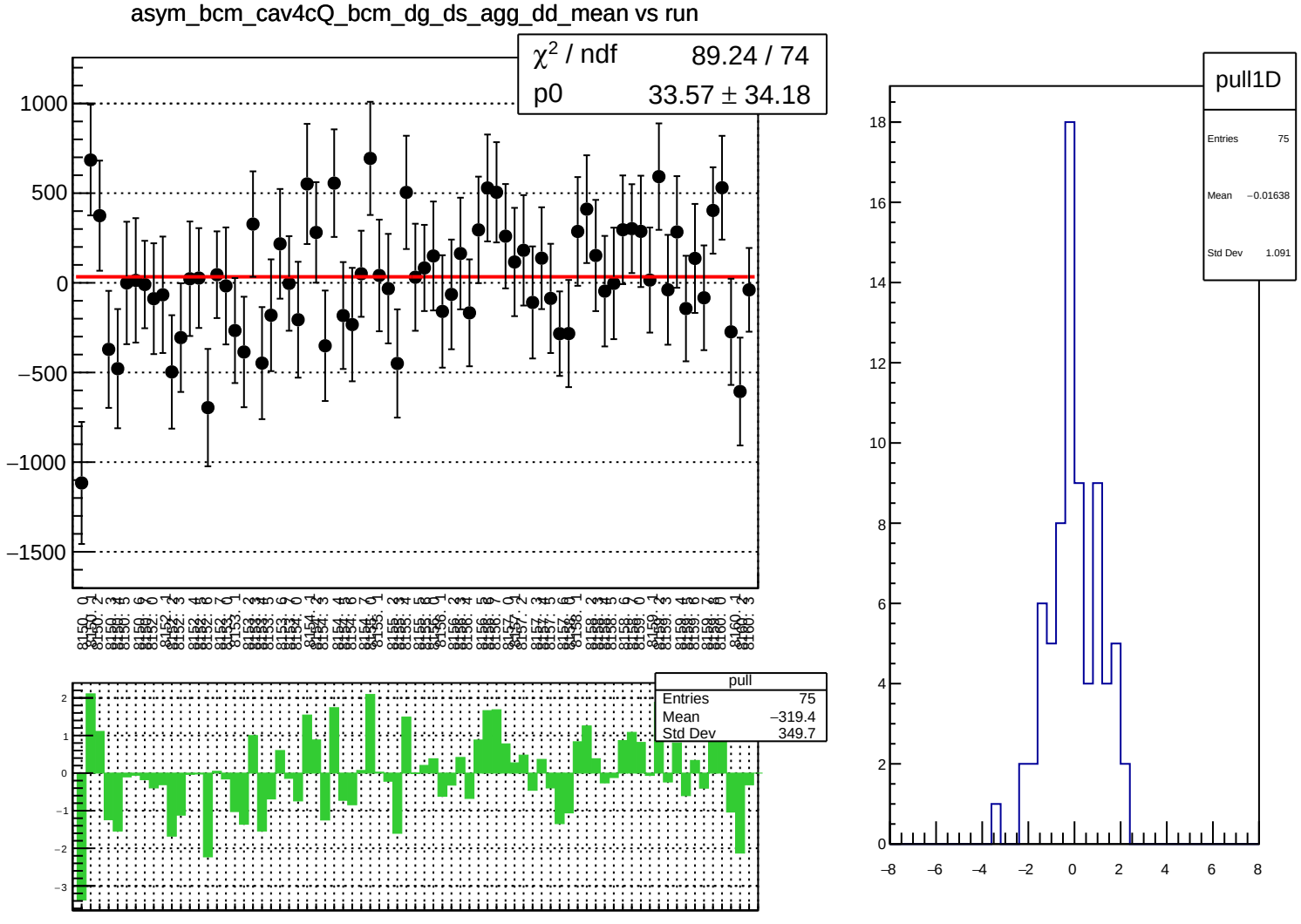

pull1D
Entries 75
Mean −0.002671
Std Dev 1.106

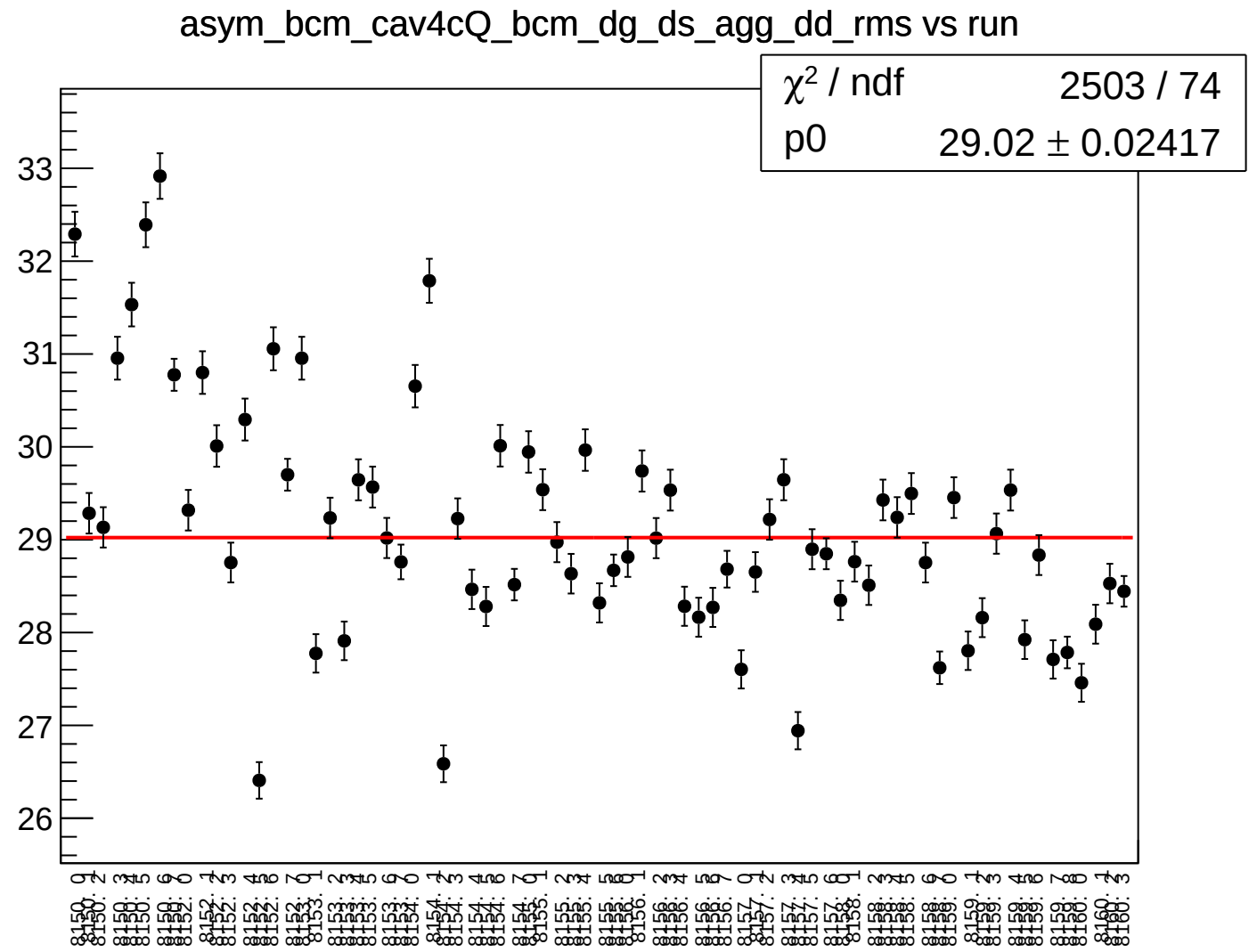

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1799 / 74
p0 32.12 ± 0.02674
35
34
33
32
31
30
29

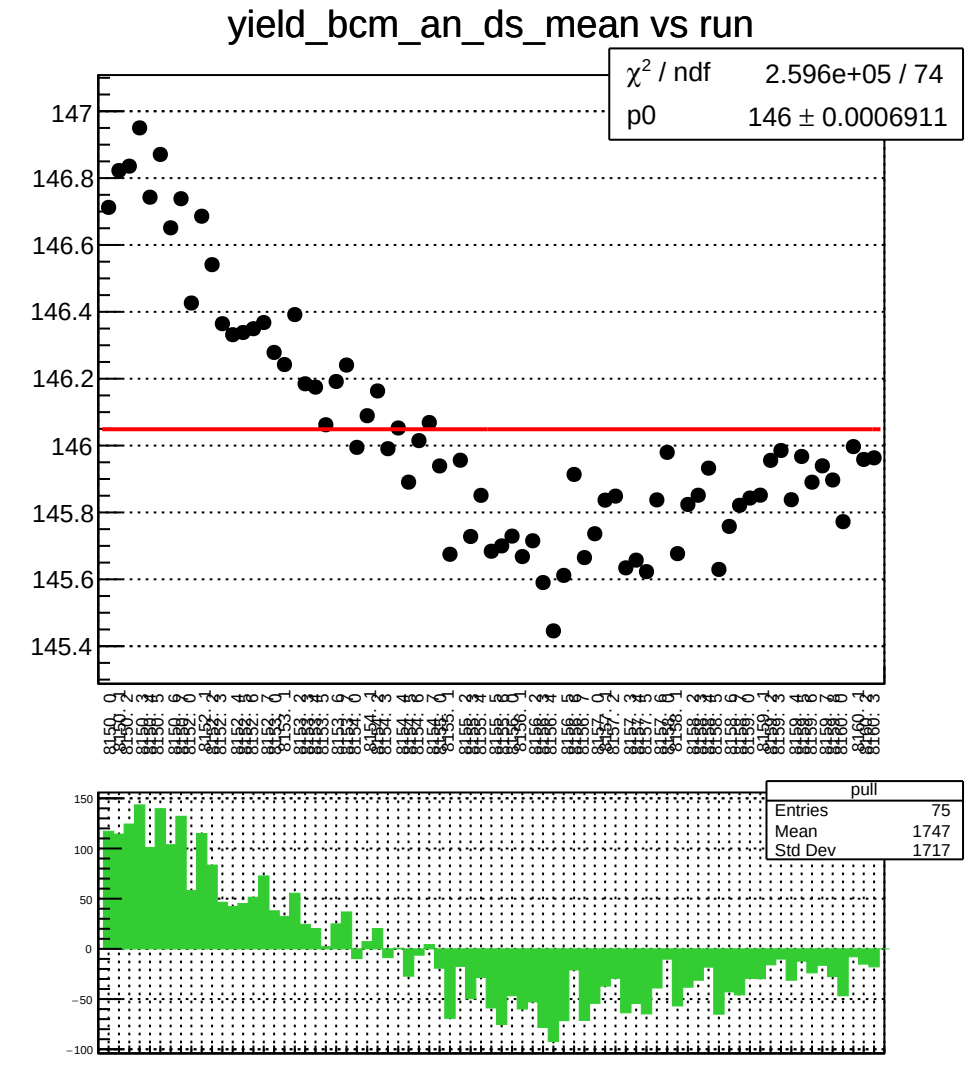

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 19.21 / 74
p0 193.9 ± 170.5
pull
Entries 75
Mean −2196
Std Dev 2231

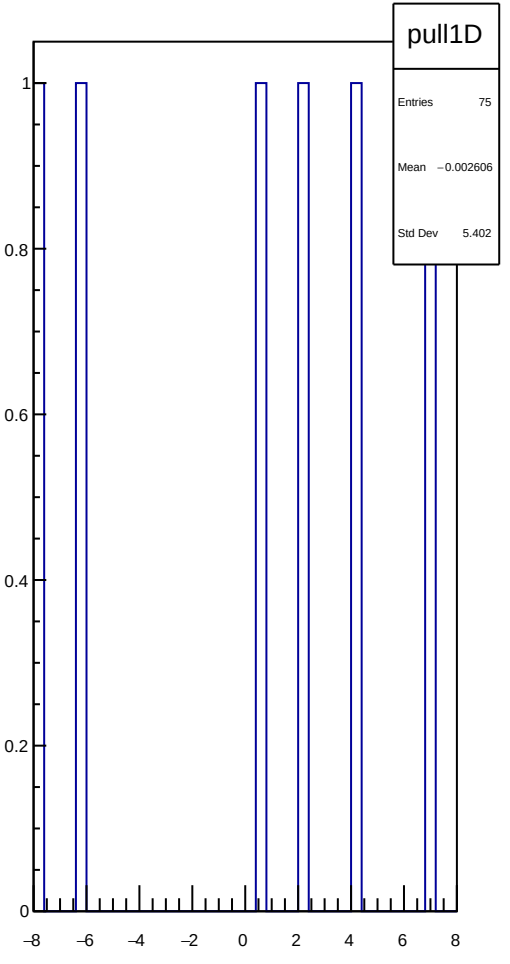

pull1D
Entries 75
Mean −0.0006244
Std Dev 0.5061

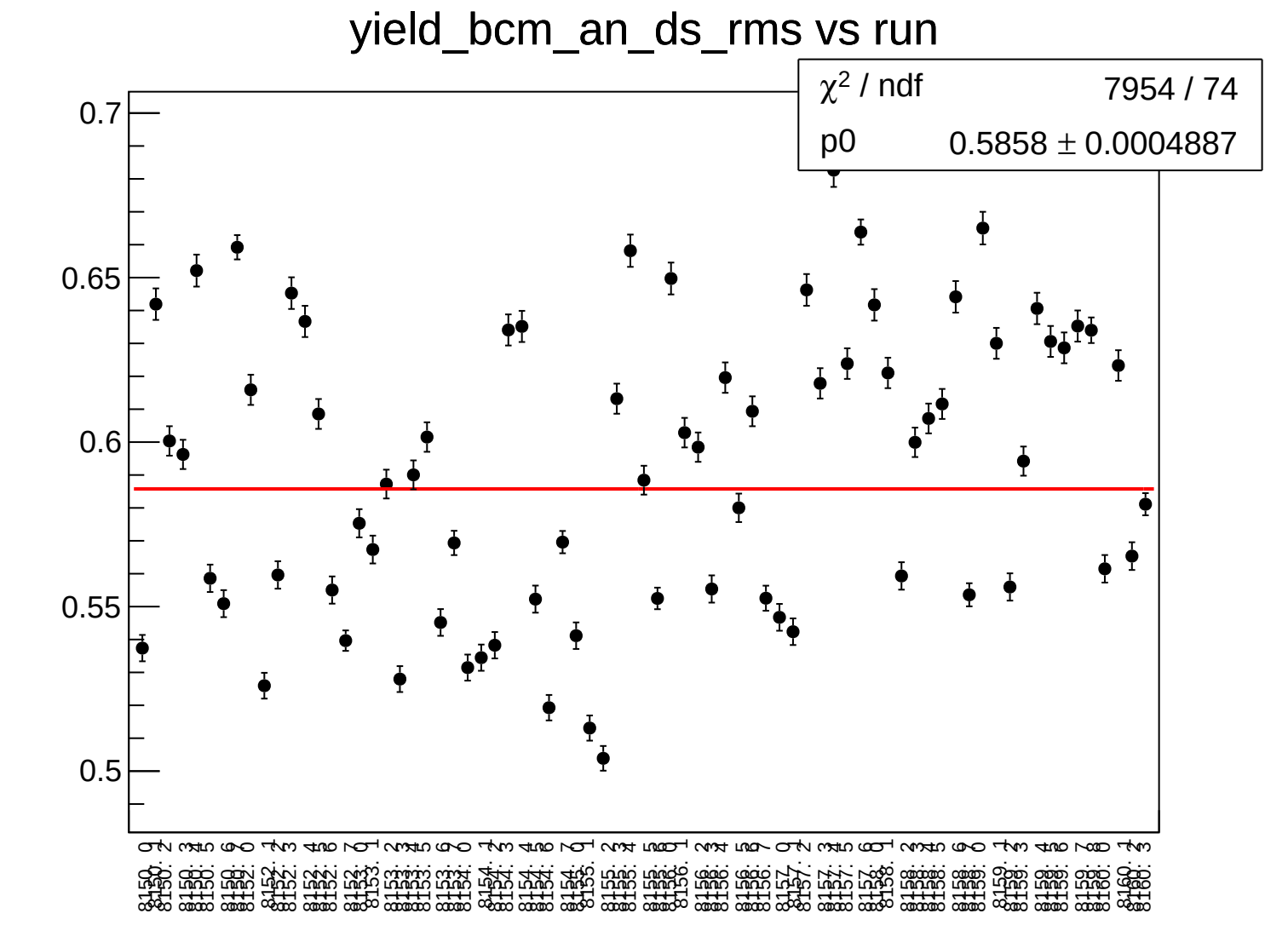

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2519 / 74
p0 144.7 ± 0.1205
175
170
165
160
155
150
145
140
135
130

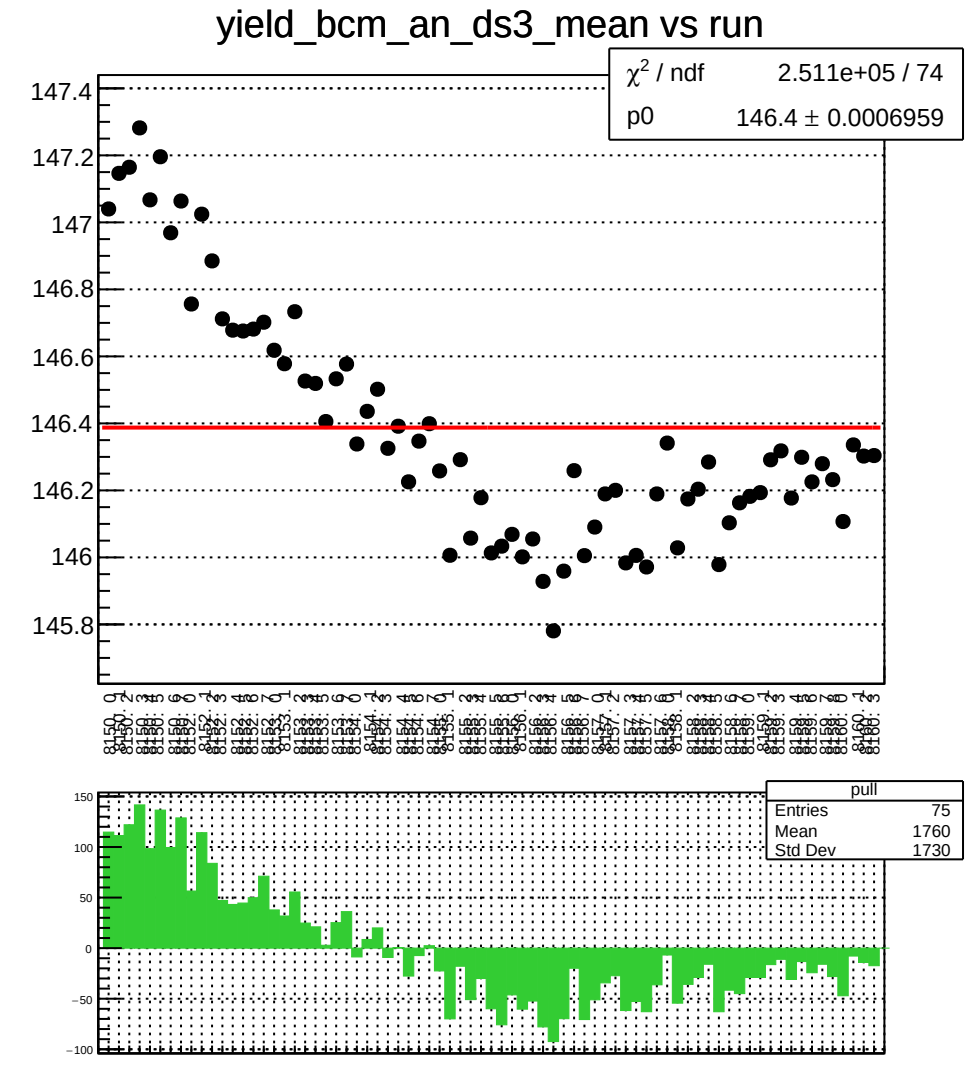

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 89.24 / 74
p0 33.57 ± 34.18
1000
500
0
−500
−1000
−1500
pull
Entries 75
Mean −319.4
Std Dev 349.7
2
1
0
−1
−2
−3
pull1D
Entries 75
Mean −0.01638
Std Dev 1.091
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

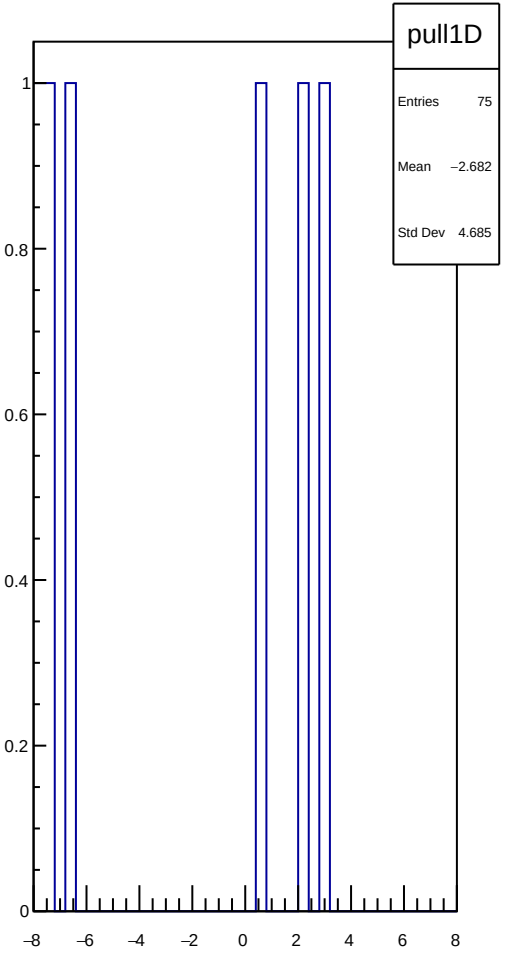

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2503 / 74
p0 29.02 ± 0.02417
33
32
31
30
29
28
27
26

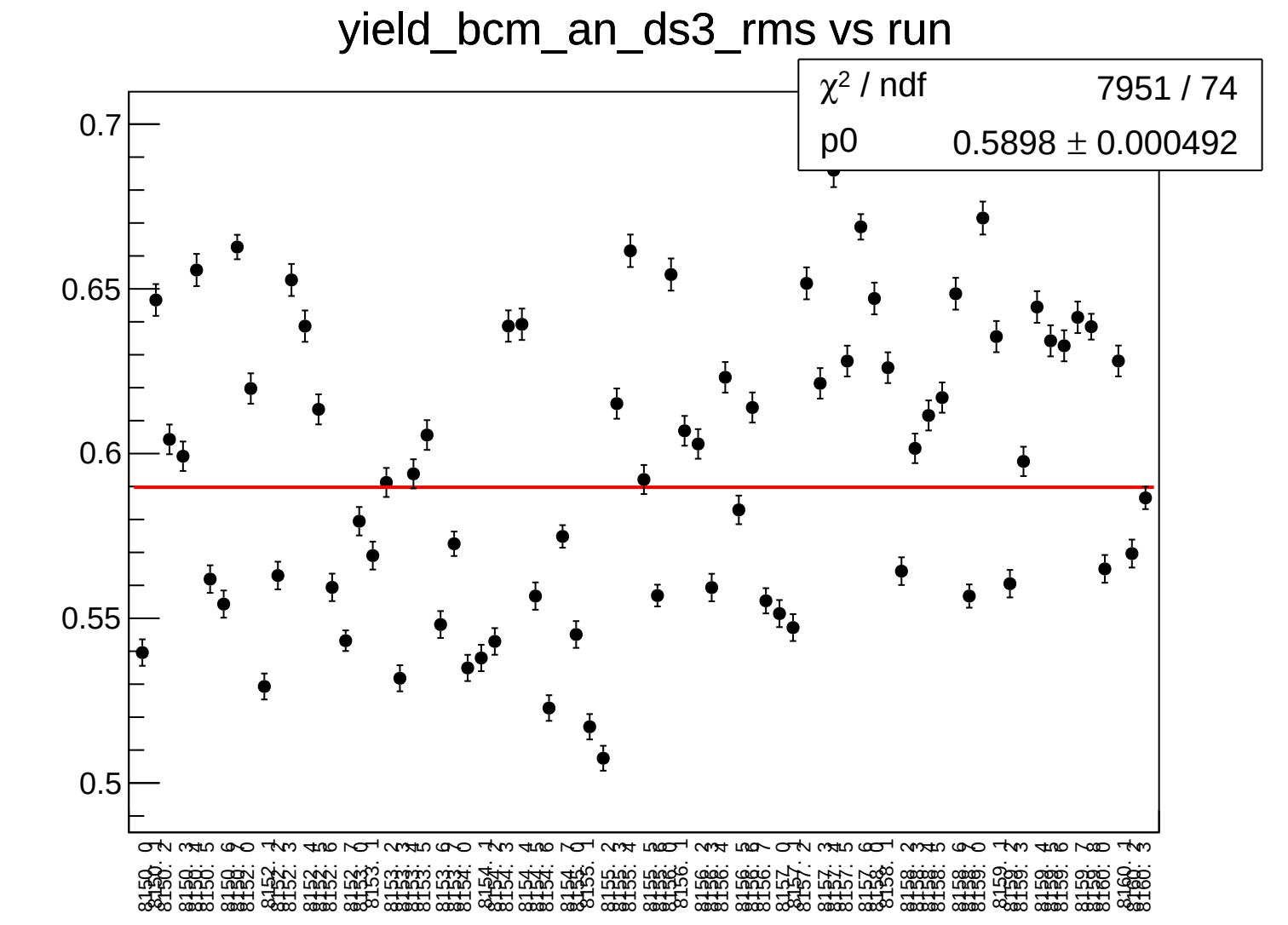

yield_bcm_an_ds_mean vs run
χ² / ndf 2.596e+05 / 74
p0 146 ± 0.0006911
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 75
Mean 1747
Std Dev 1717
150
100
50
0
−50
−100

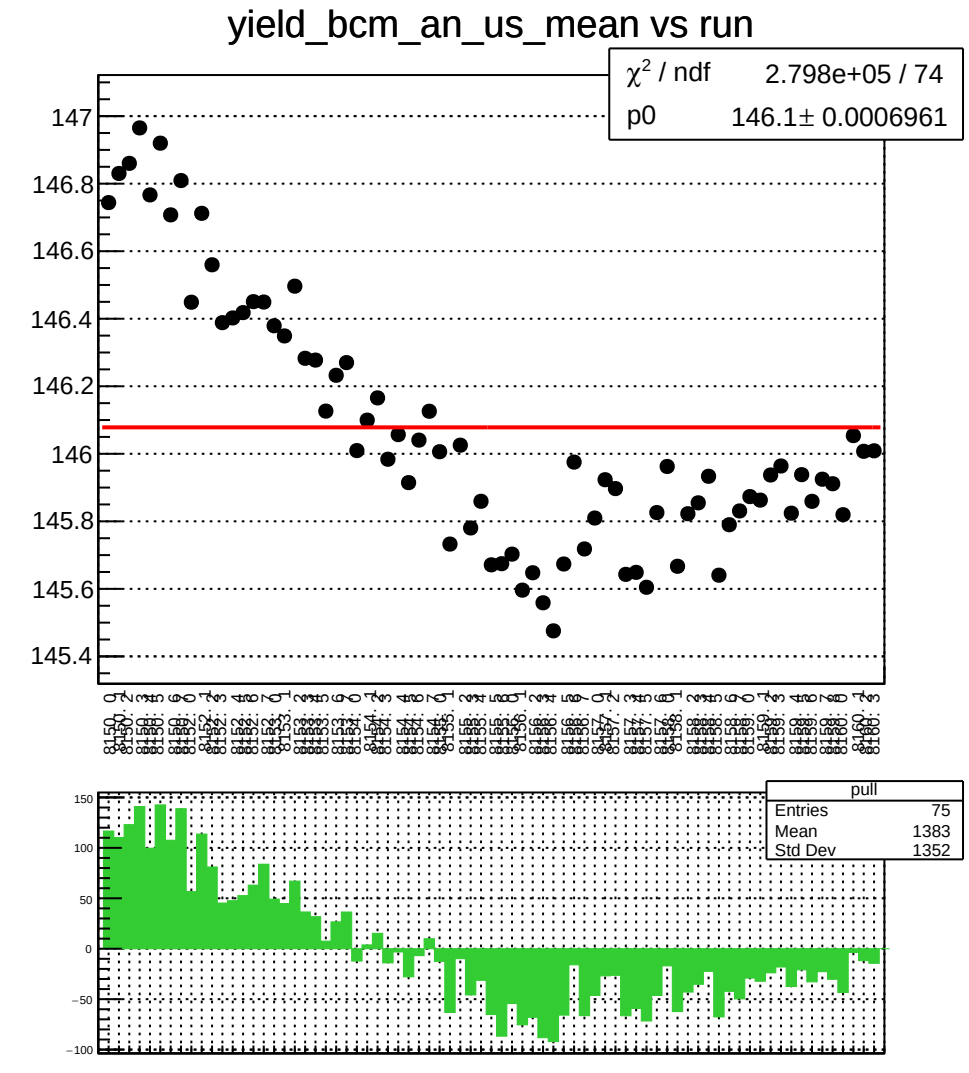

pull1D
Entries 75
Mean −0.002606
Std Dev 5.402
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

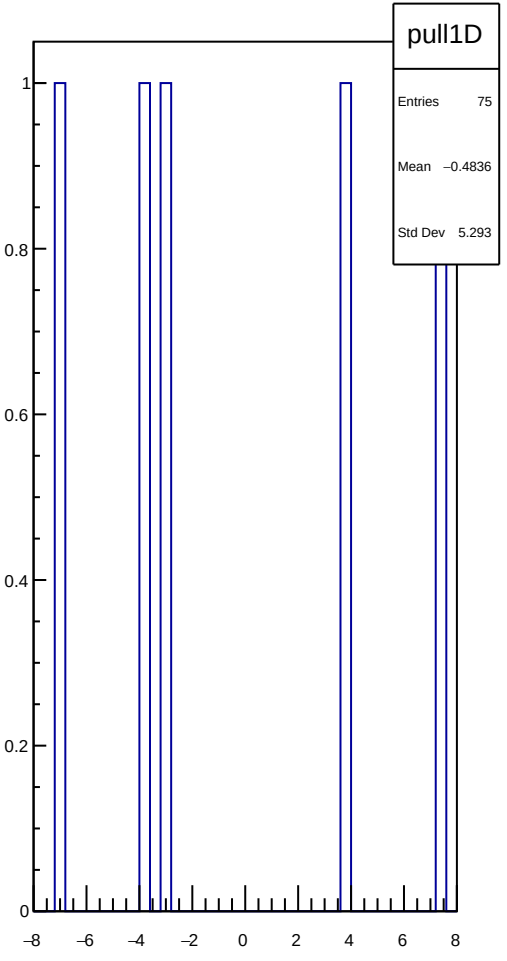

yield_bcm_an_ds_rms vs run
χ² / ndf 7954 / 74
p0 0.5858 ± 0.0004887
0.7
0.65
0.6
0.55
0.5

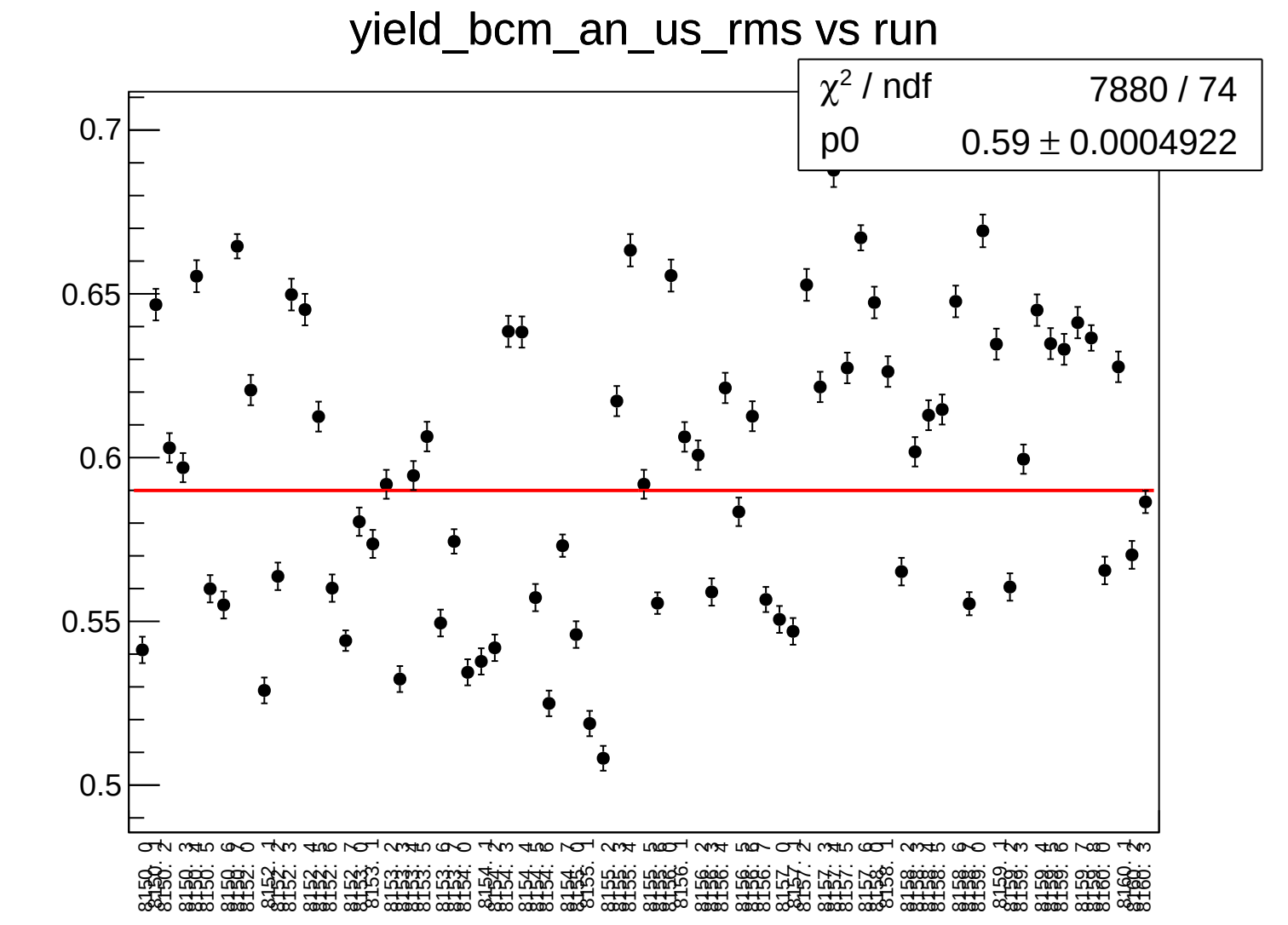

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.511e+05 / 74
p0 146.4 ± 0.0006959
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 75
Mean 1760
Std Dev 1730
150
100
50
0
−50
−100

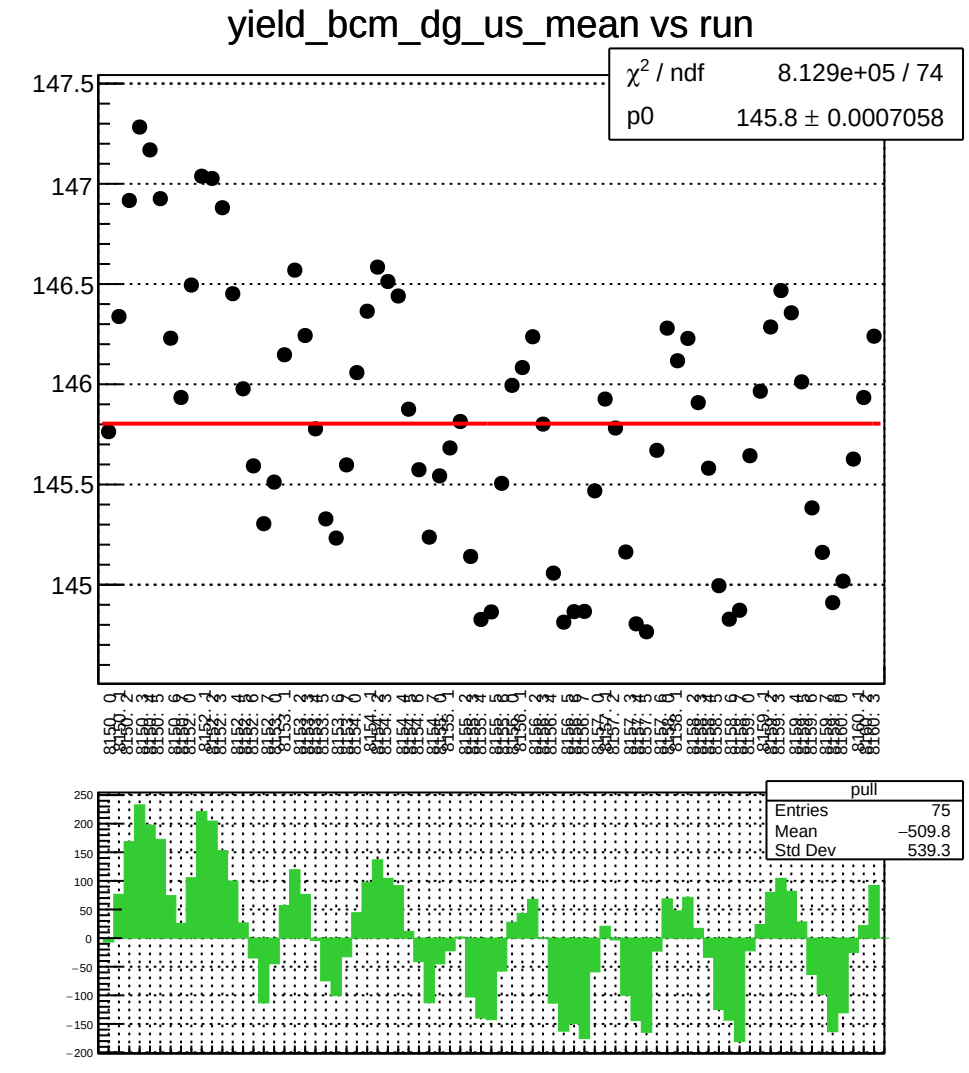

pull1D
Entries 75
Mean −2.682
Std Dev 4.685
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

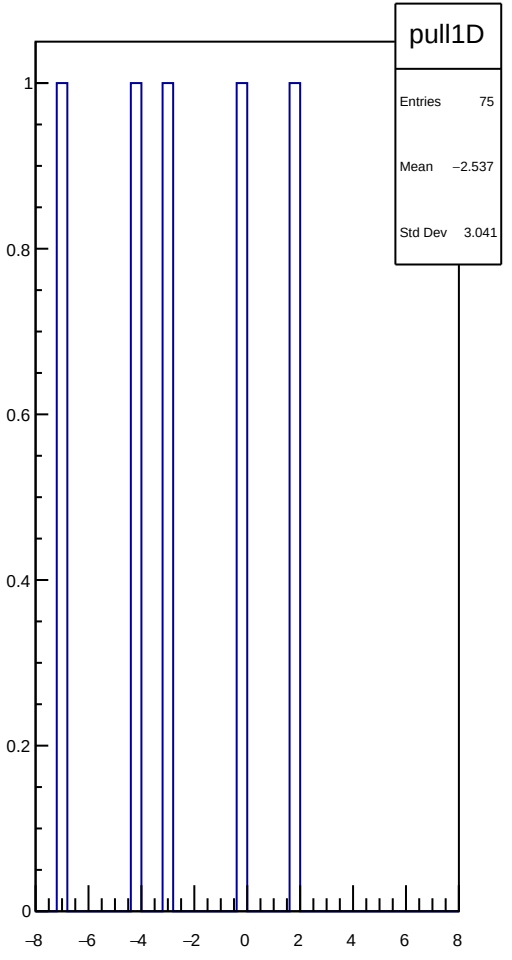

yield_bcm_an_ds3_rms vs run
χ² / ndf 7951 / 74
p0 0.5898 ± 0.000492
0.7
0.65
0.6
0.55
0.5

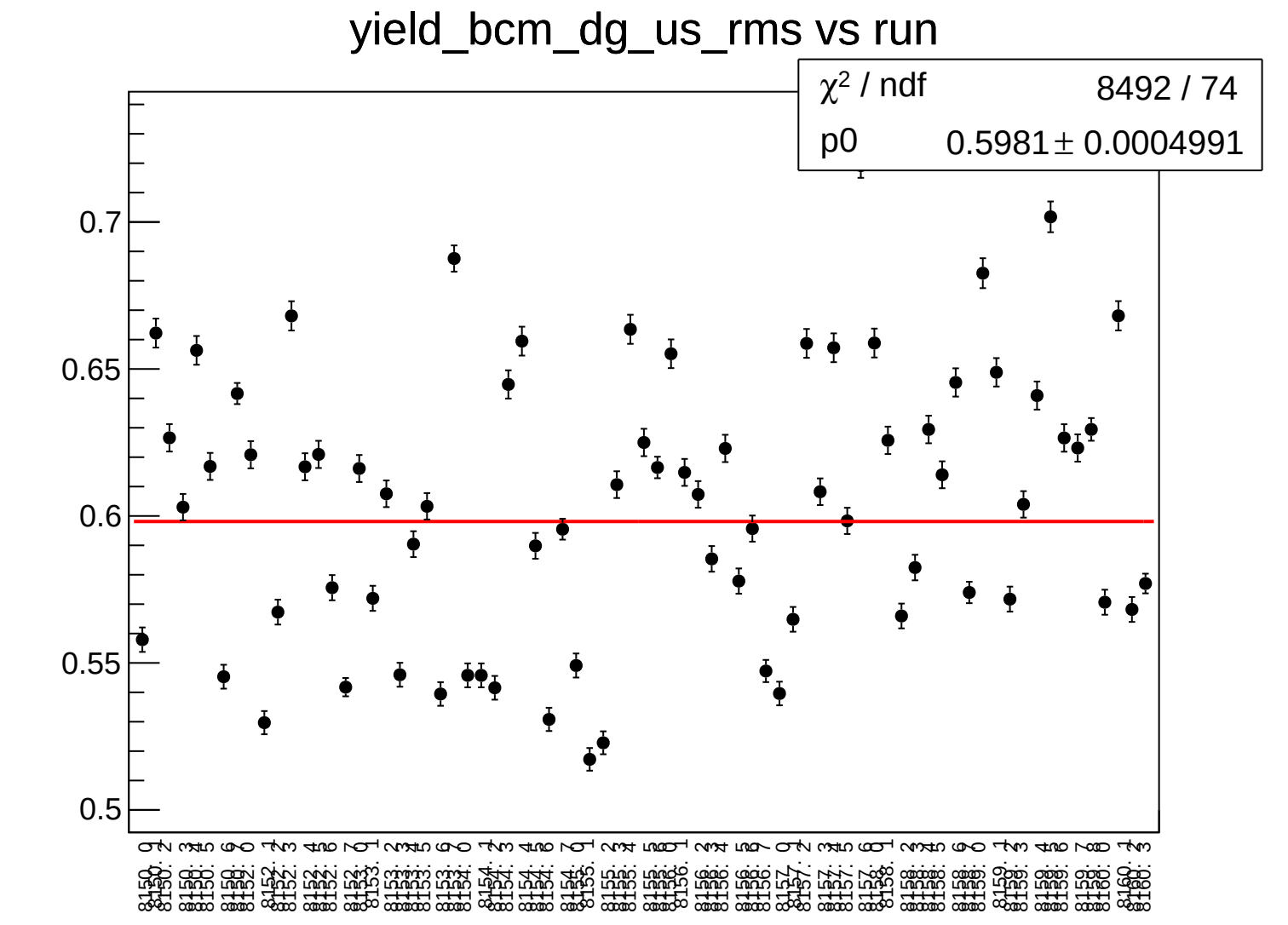

yield_bcm_an_us_mean vs run
χ² / ndf 2.798e+05 / 74
p0 146.1± 0.0006961
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 75
Mean 1383
Std Dev 1352
150
100
50
0
−50
−100

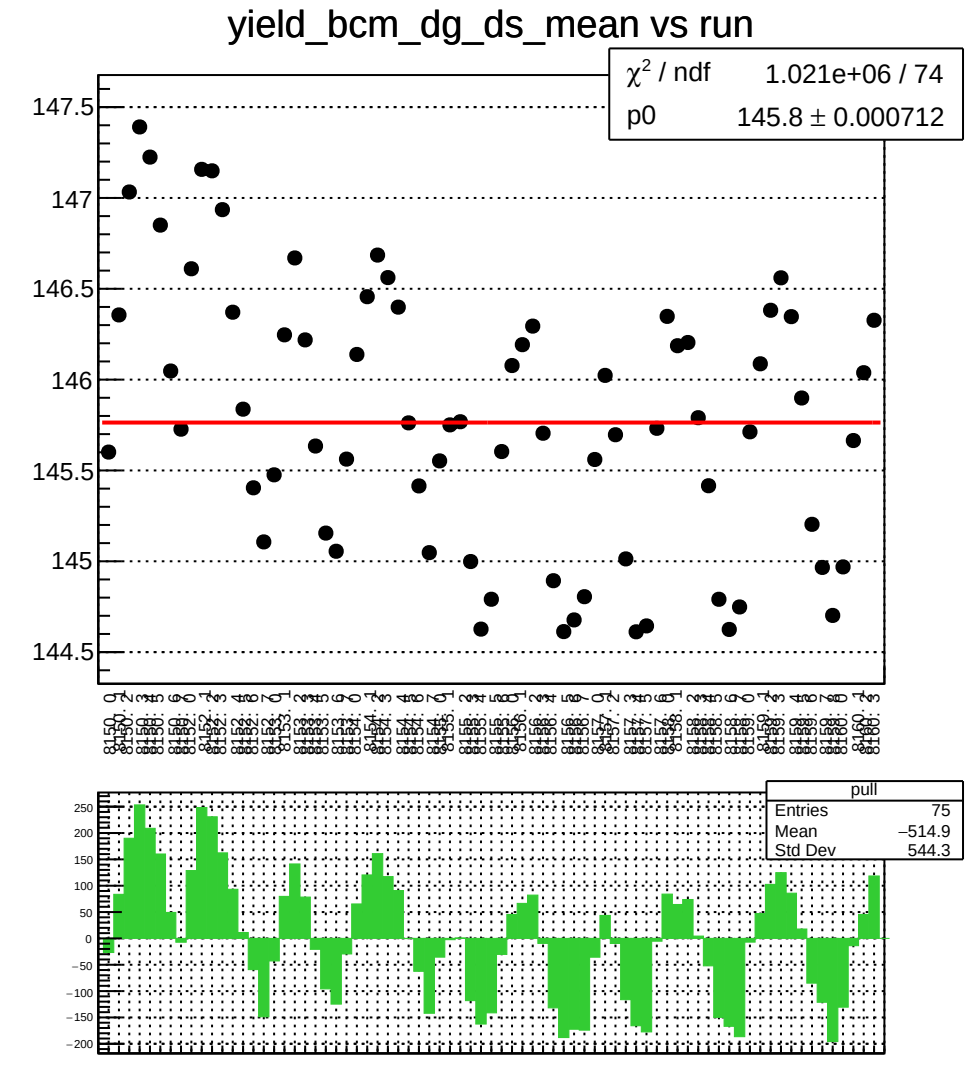

pull1D
Entries 75
Mean −0.4836
Std Dev 5.293
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

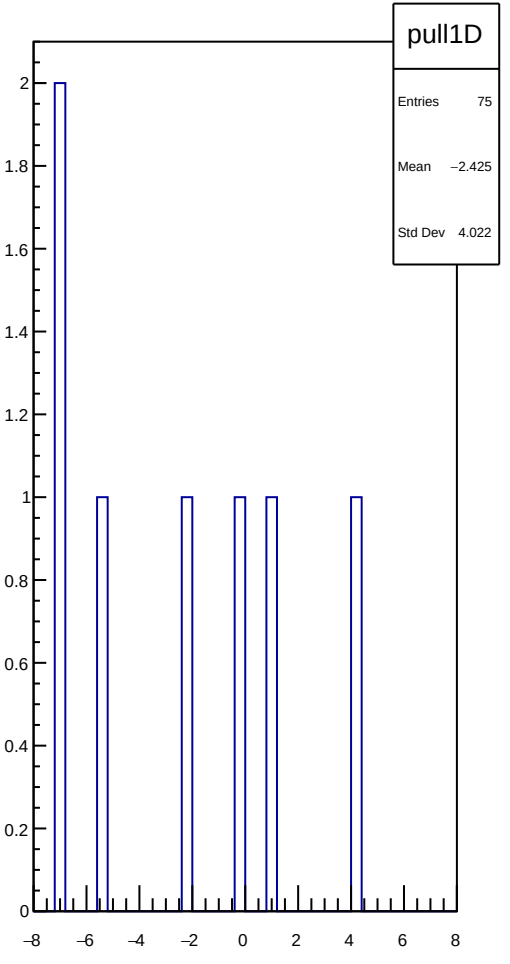

yield_bcm_an_us_rms vs run
χ² / ndf 7880 / 74
p0 0.59 ± 0.0004922
0.7
0.65
0.6
0.55
0.5

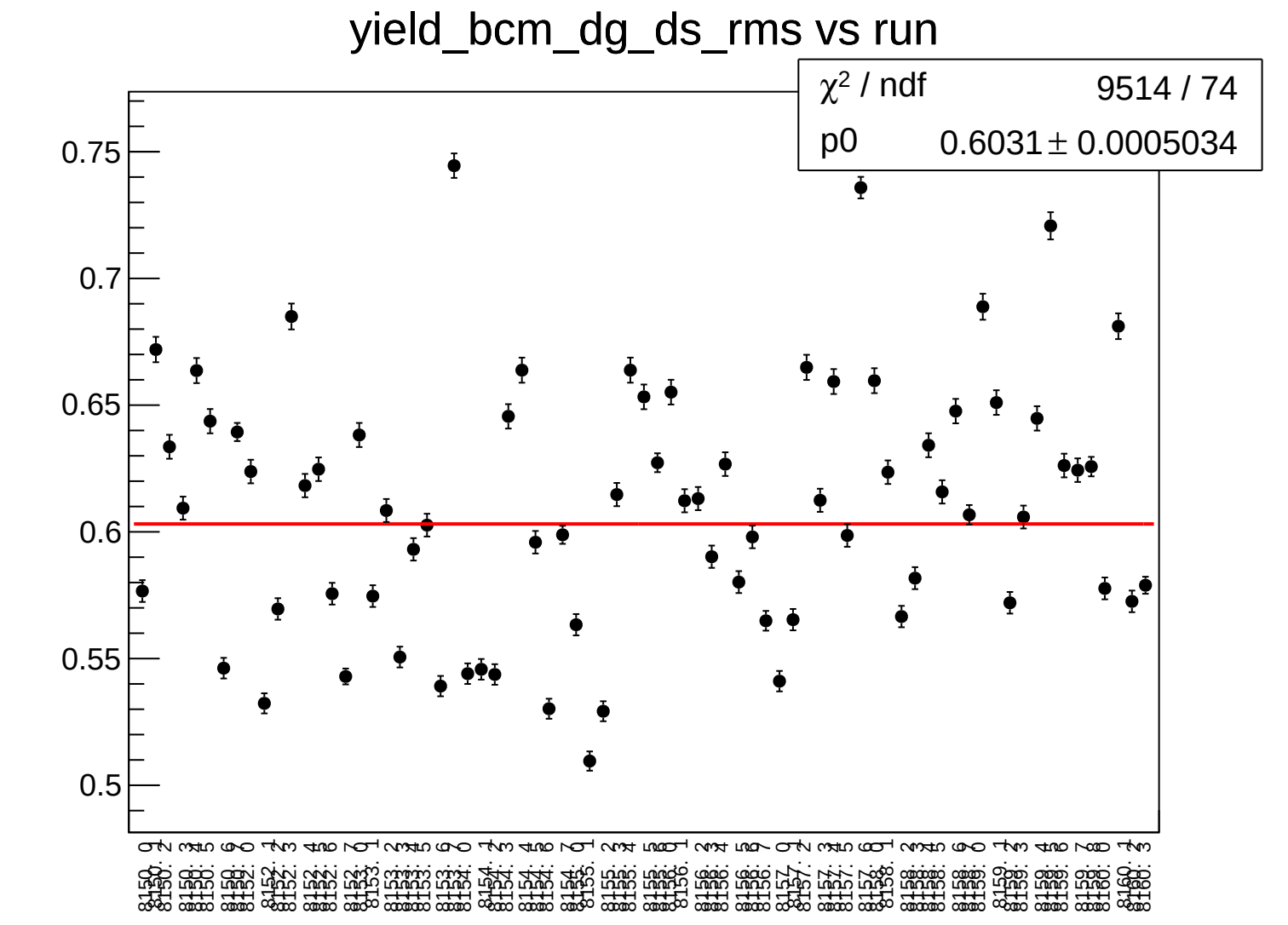

yield_bcm_dg_us_mean vs run
χ² / ndf 8.129e+05 / 74
p0 145.8 ± 0.0007058
147.5
147
146.5
146
145.5
145
pull
Entries 75
Mean −509.8
Std Dev 539.3
250
200
150
100
50
0
−50
−100
−150
−200

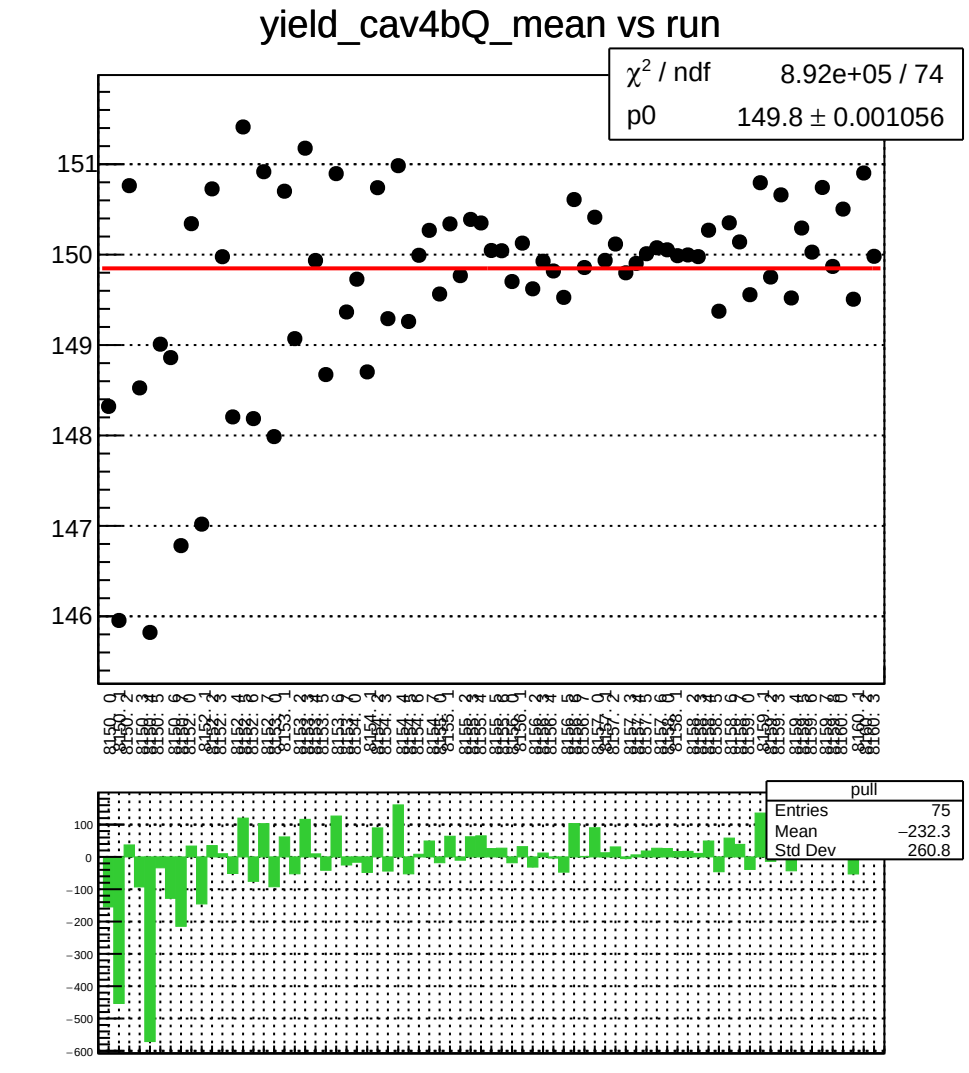

pull1D
Entries 75
Mean −2.537
Std Dev 3.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

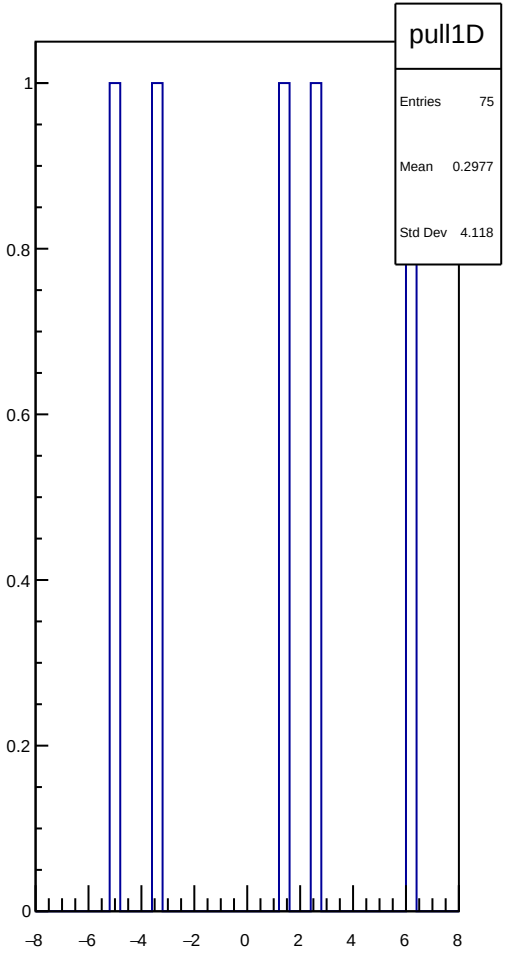

yield_bcm_dg_us_rms vs run
χ² / ndf 8492 / 74
p0 0.5981 ± 0.0004991
0.7
0.65
0.6
0.55
0.5

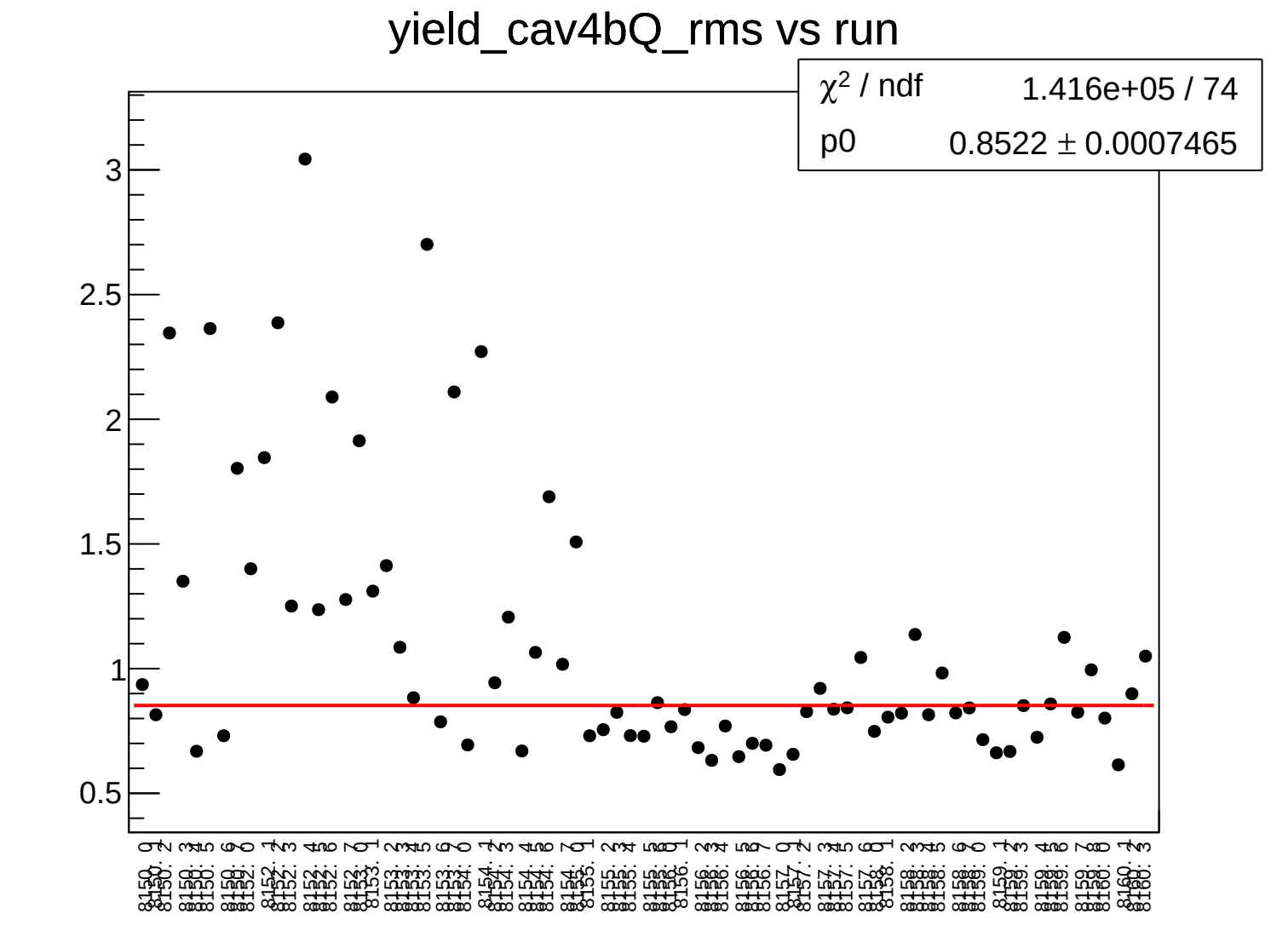

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.021e+06 / 74
p0 145.8 ± 0.000712
147.5
147
146.5
146
145.5
145
144.5
pull
Entries 75
Mean −514.9
Std Dev 544.3
250
200
150
100
50
0
−50
−100
−150
−200

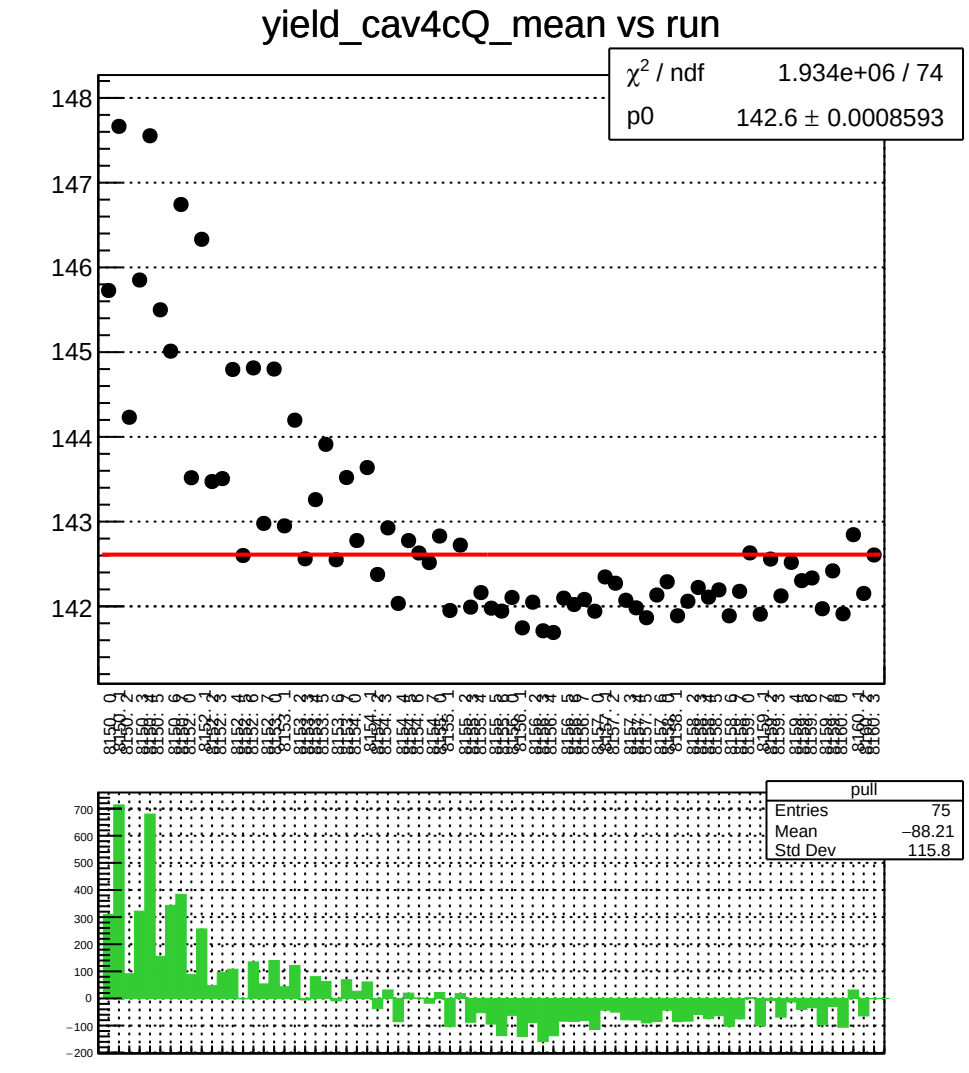

pull1D
Entries 75
Mean −2.425
Std Dev 4.022
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

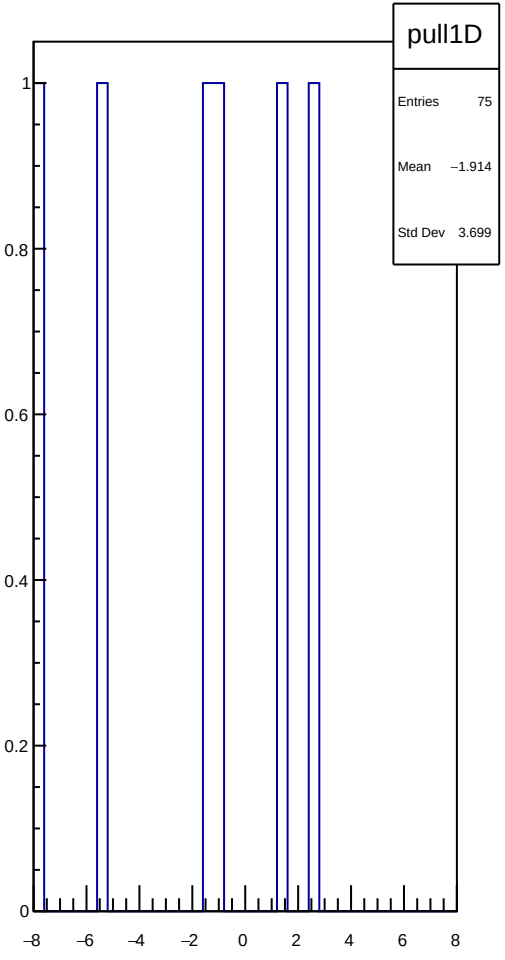

yield_bcm_dg_ds_rms vs run
χ² / ndf 9514 / 74
p0 0.6031 ± 0.0005034
0.75
0.7
0.65
0.6
0.55
0.5

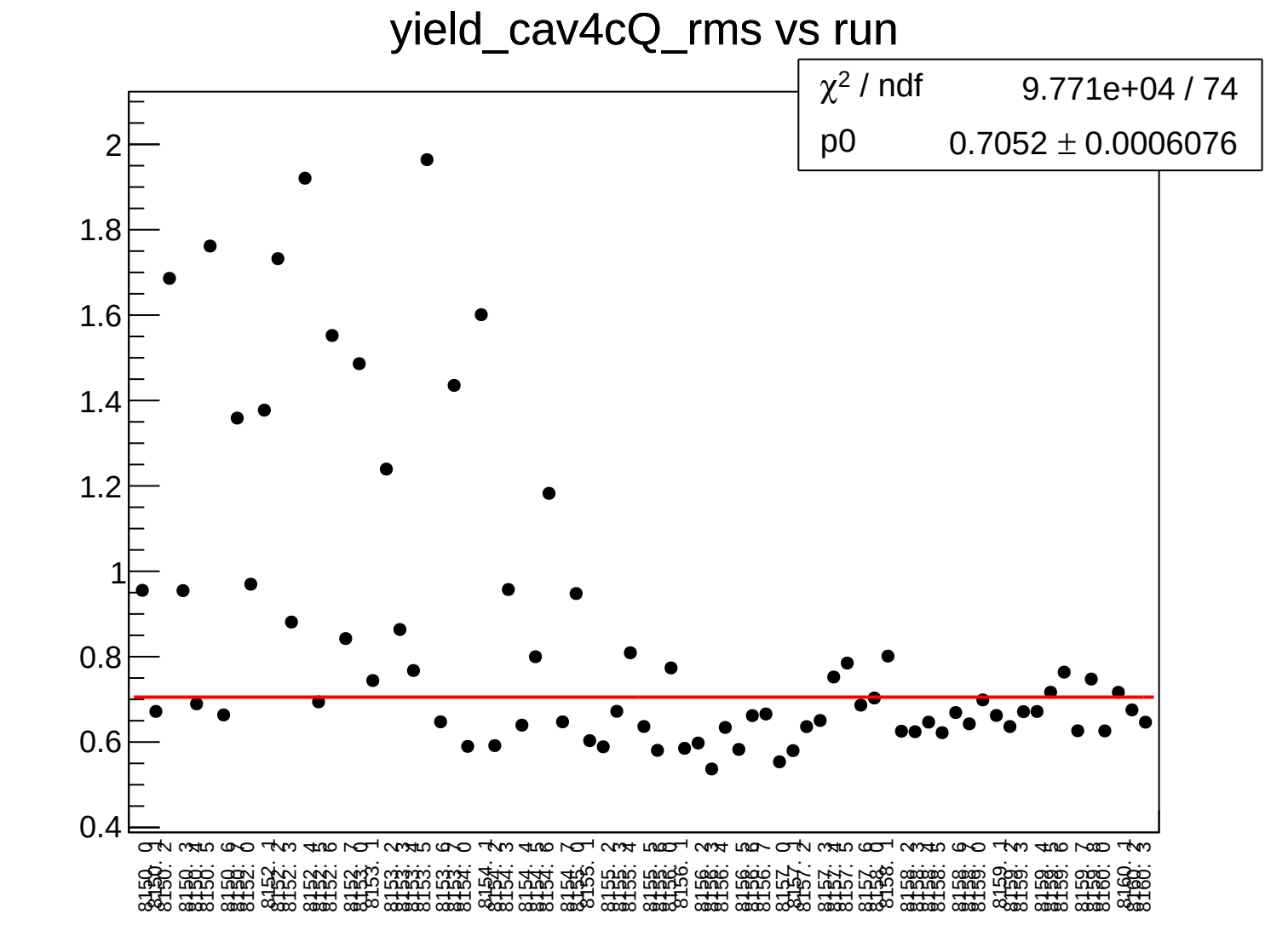

yield_cav4bQ_mean vs run
χ² / ndf 8.92e+05 / 74
p0 149.8 ± 0.001056
151
150
149
148
147
146
pull
Entries 75
Mean −232.3
Std Dev 260.8
100
0
−100
−200
−300
−400
−500
−600

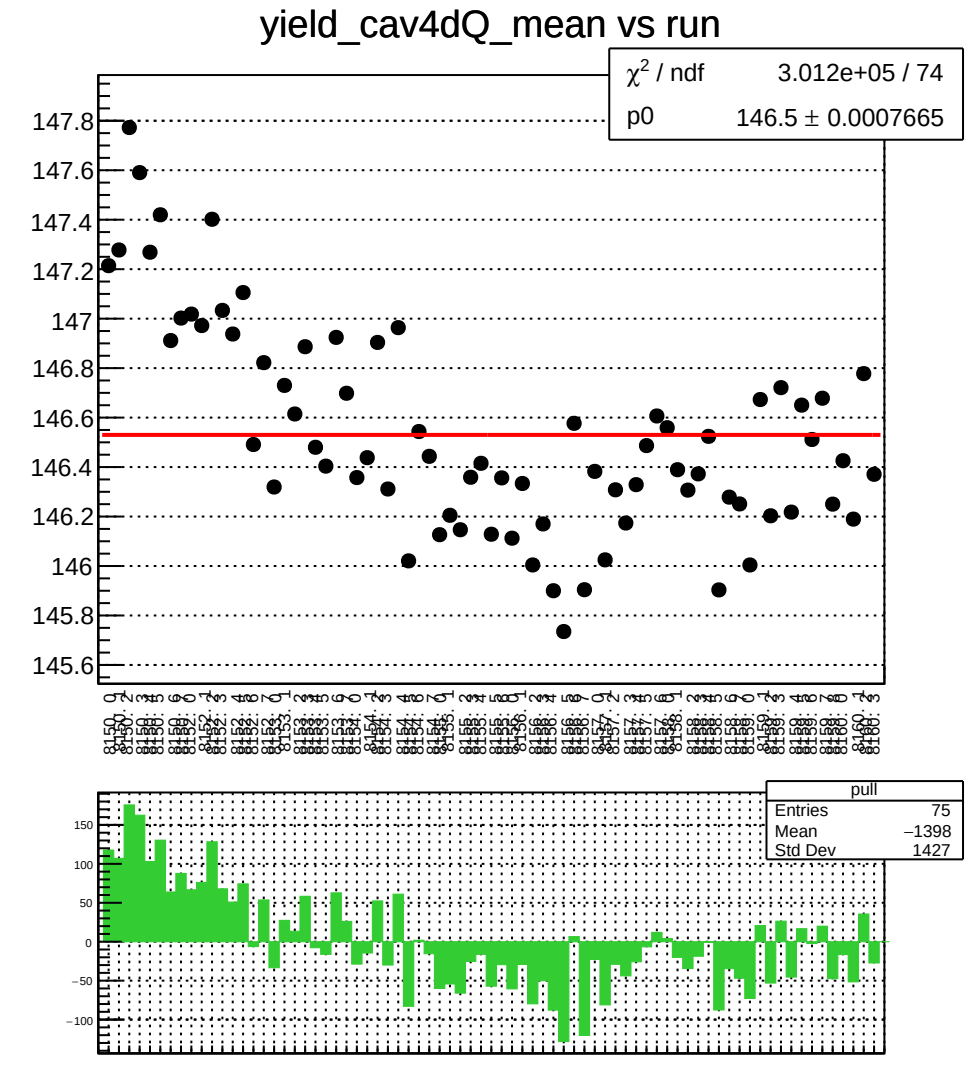

pull1D
Entries 75
Mean 0.2977
Std Dev 4.118
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

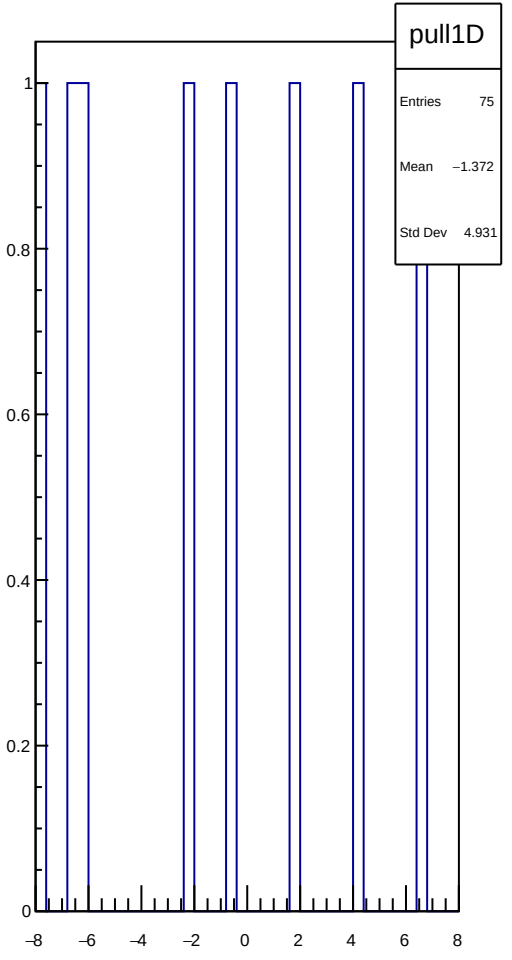

yield_cav4bQ_rms vs run
χ² / ndf 1.416e+05 / 74
p0 0.8522 ± 0.0007465
3
2.5
2
1.5
1
0.5

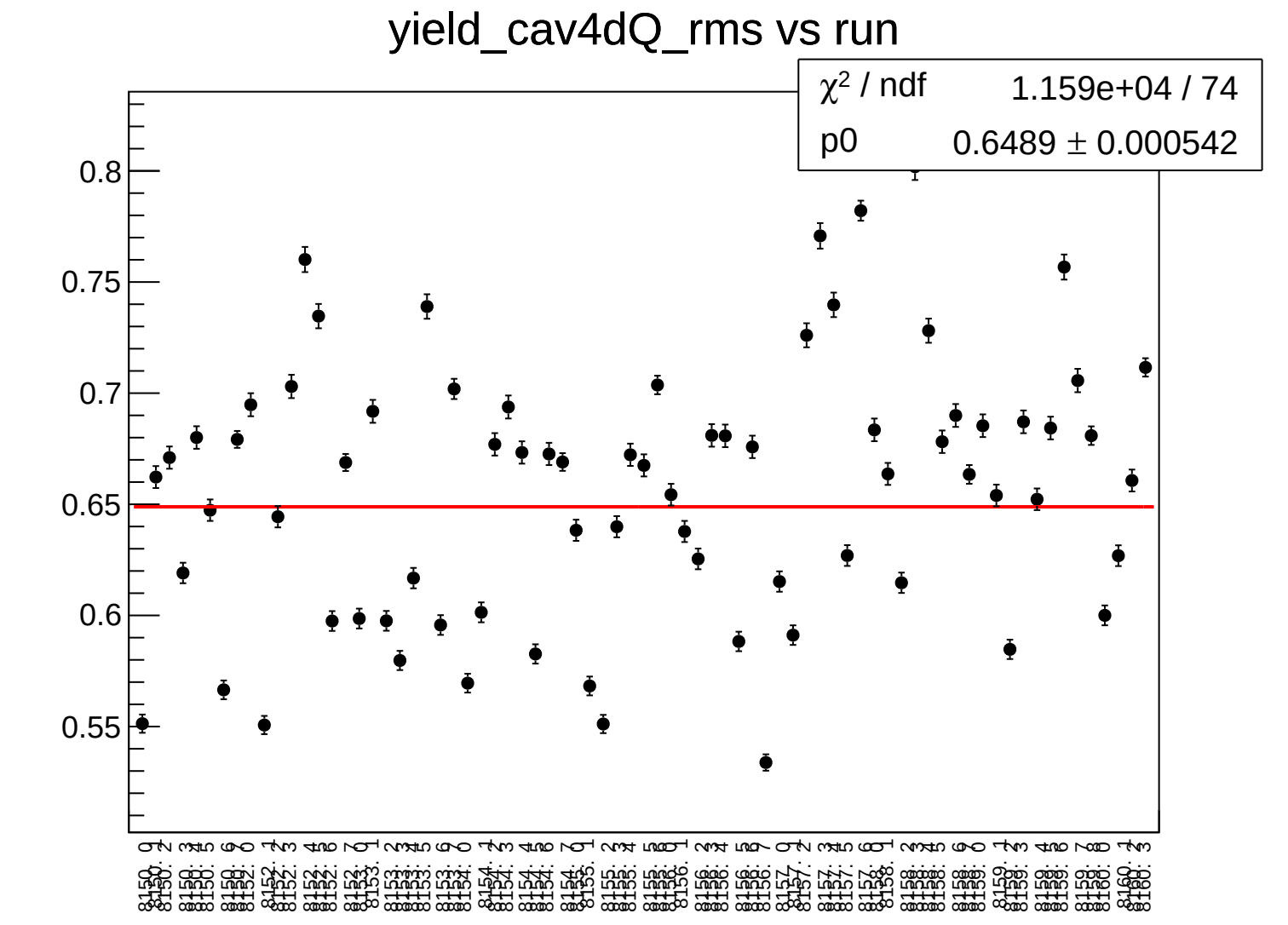

yield_cav4cQ_mean vs run
χ² / ndf 1.934e+06 / 74
p0 142.6 ± 0.0008593
148
147
146
145
144
143
142
pull
Entries 75
Mean −88.21
Std Dev 115.8
700
600
500
400
300
200
100
0
−100
−200

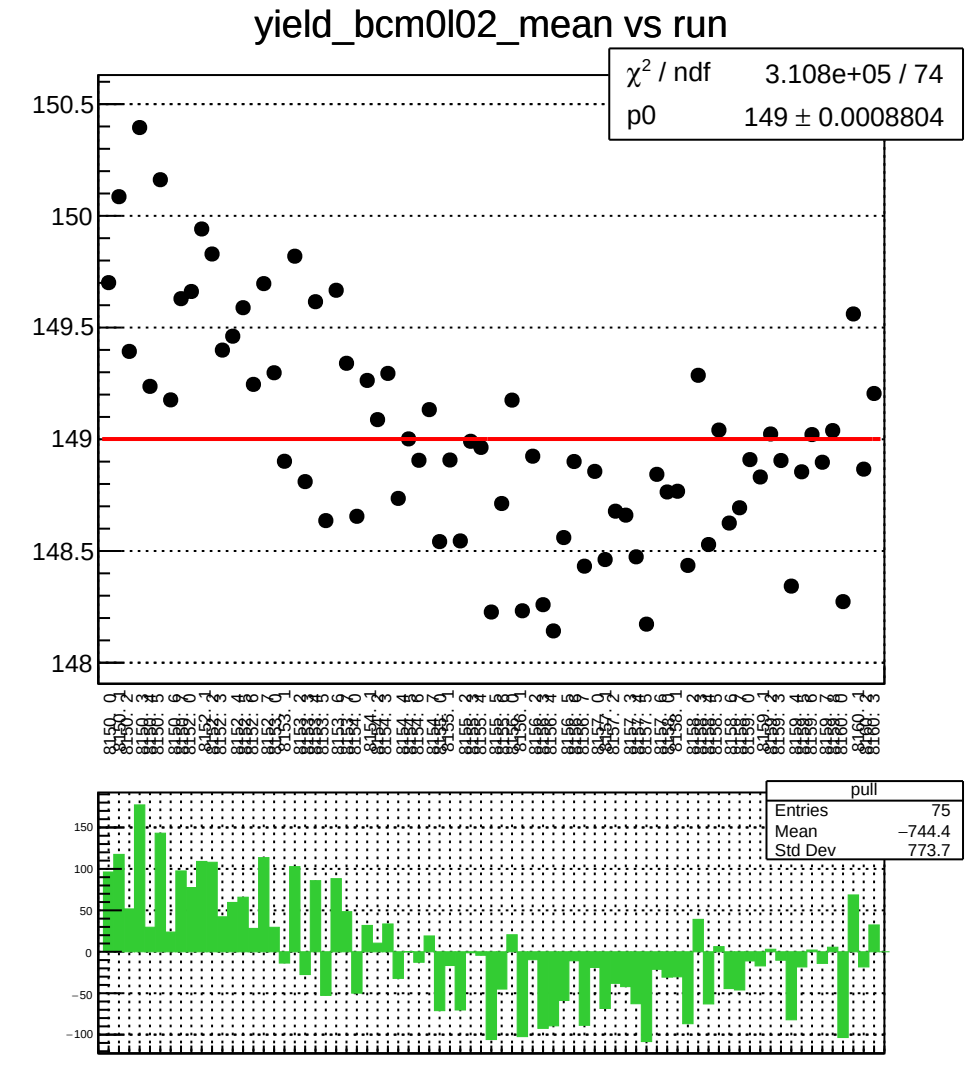

pull1D
Entries 75
Mean −1.914
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

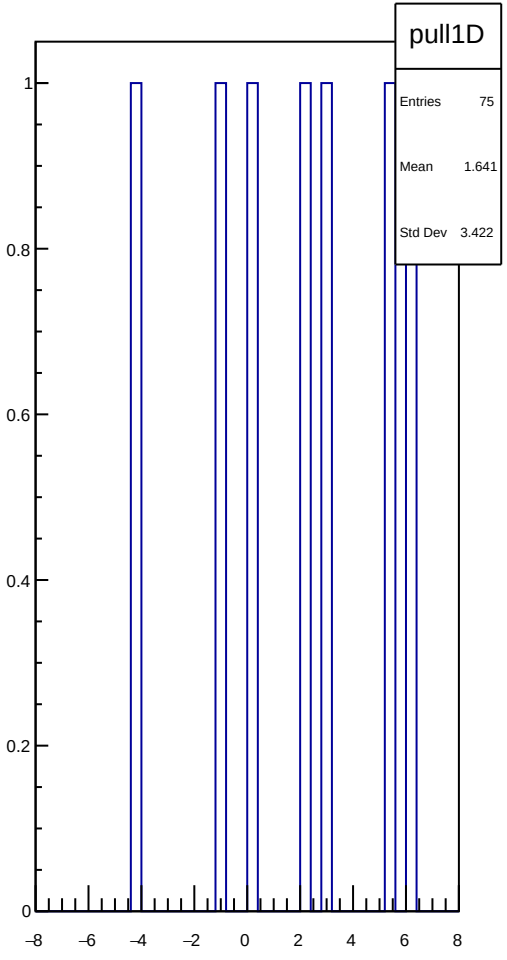

yield_cav4cQ_rms vs run
χ^2 / ndf 9.771e+04 / 74
p0 0.7052 ± 0.0006076
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

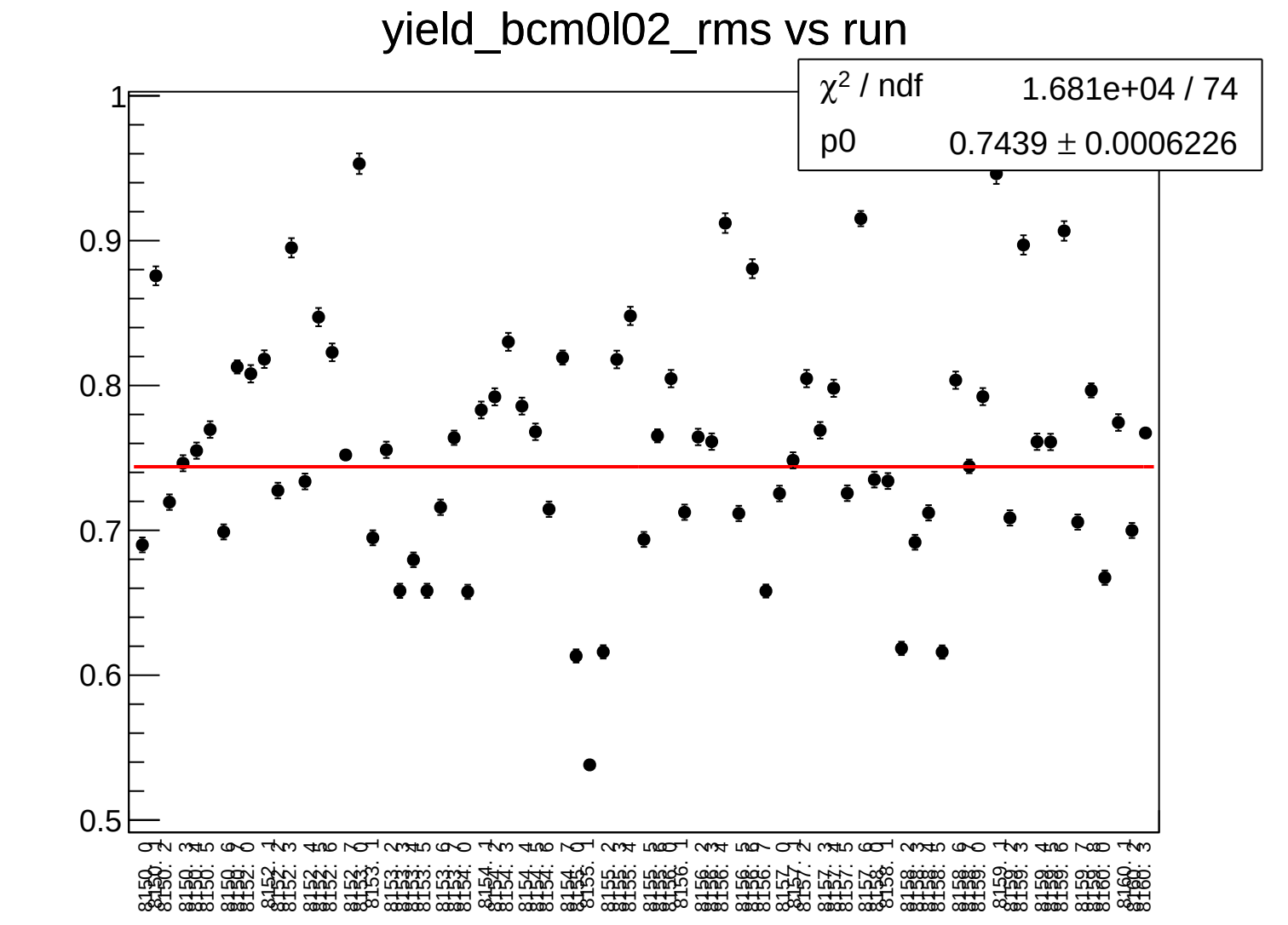

yield_cav4dQ_mean vs run
χ² / ndf 3.012e+05 / 74
p0 146.5 ± 0.0007665
147.8
147.6
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 75
Mean −1398
Std Dev 1427
150
100
50
0
−50
−100

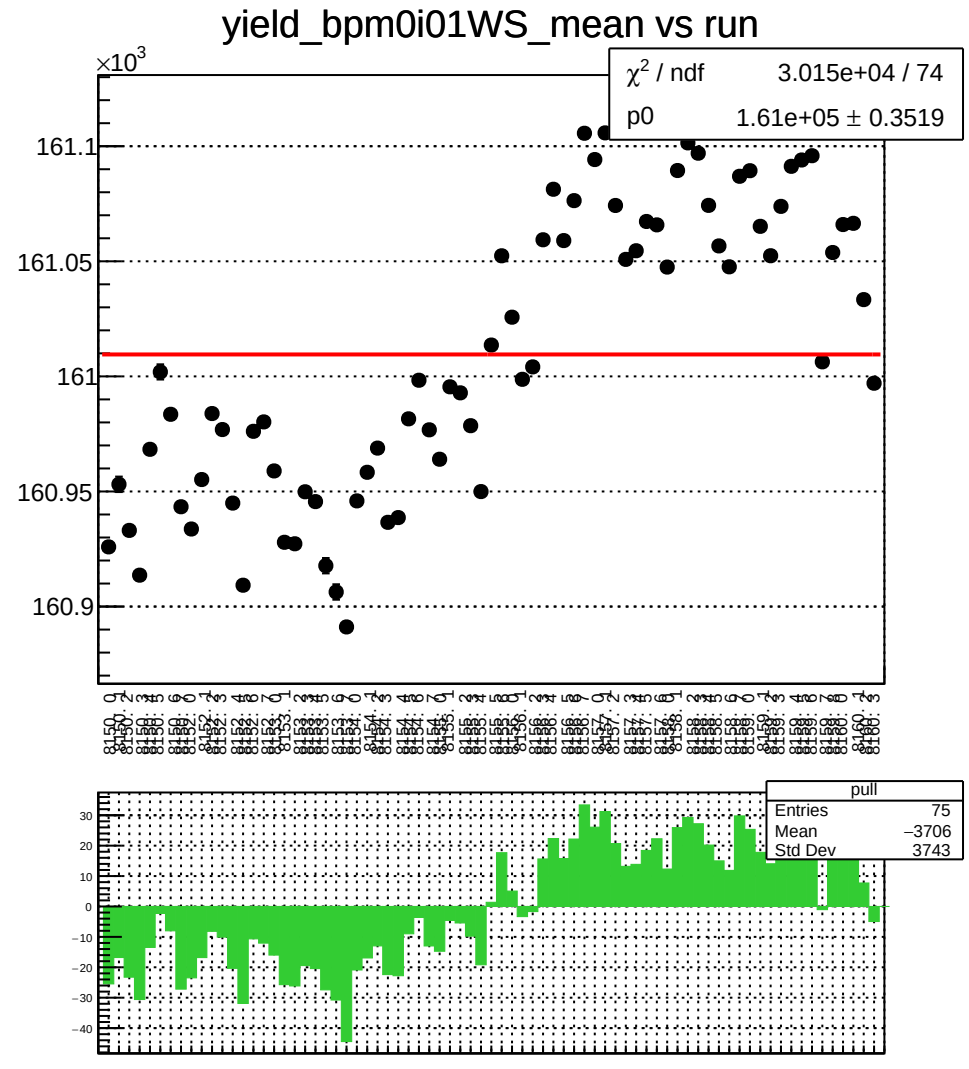

pull1D
Entries 75
Mean −1.372
Std Dev 4.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

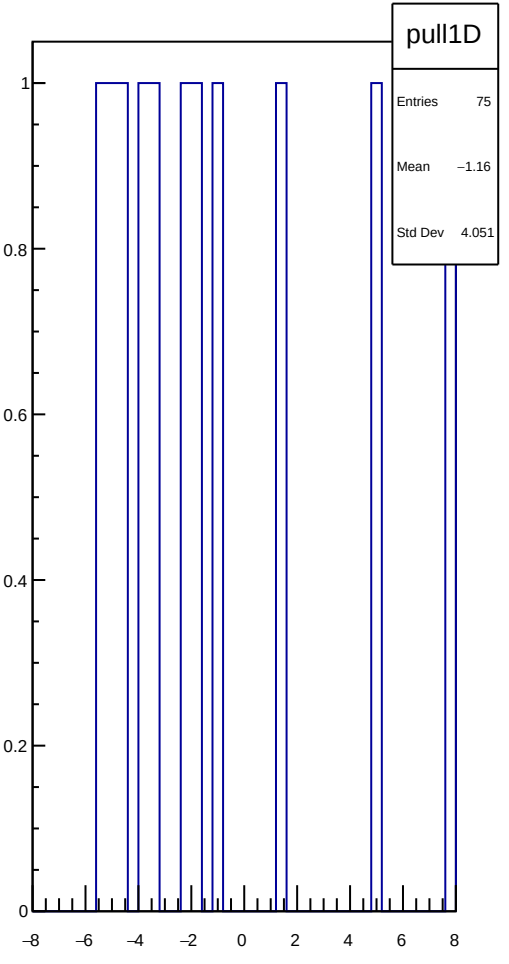

yield_cav4dQ_rms vs run
χ² / ndf 1.159e+04 / 74
p0 0.6489 ± 0.000542
0.8
0.75
0.7
0.65
0.6
0.55

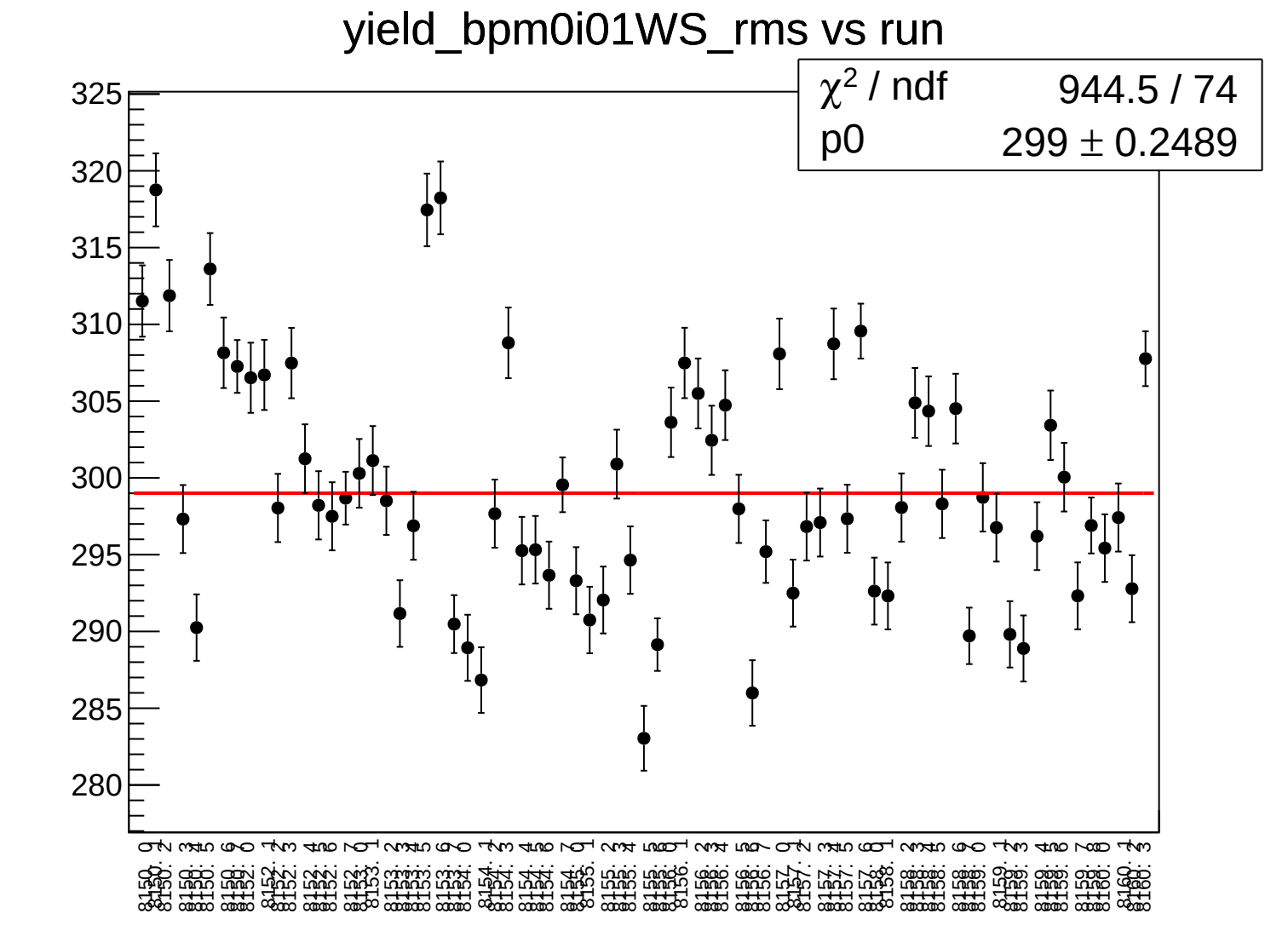

yield_bcm0l02_mean vs run
χ² / ndf 3.108e+05 / 74
p0 149 ± 0.0008804
150.5
150
149.5
149
148.5
148
pull
Entries 75
Mean −744.4
Std Dev 773.7
150
100
50
0
−50
−100

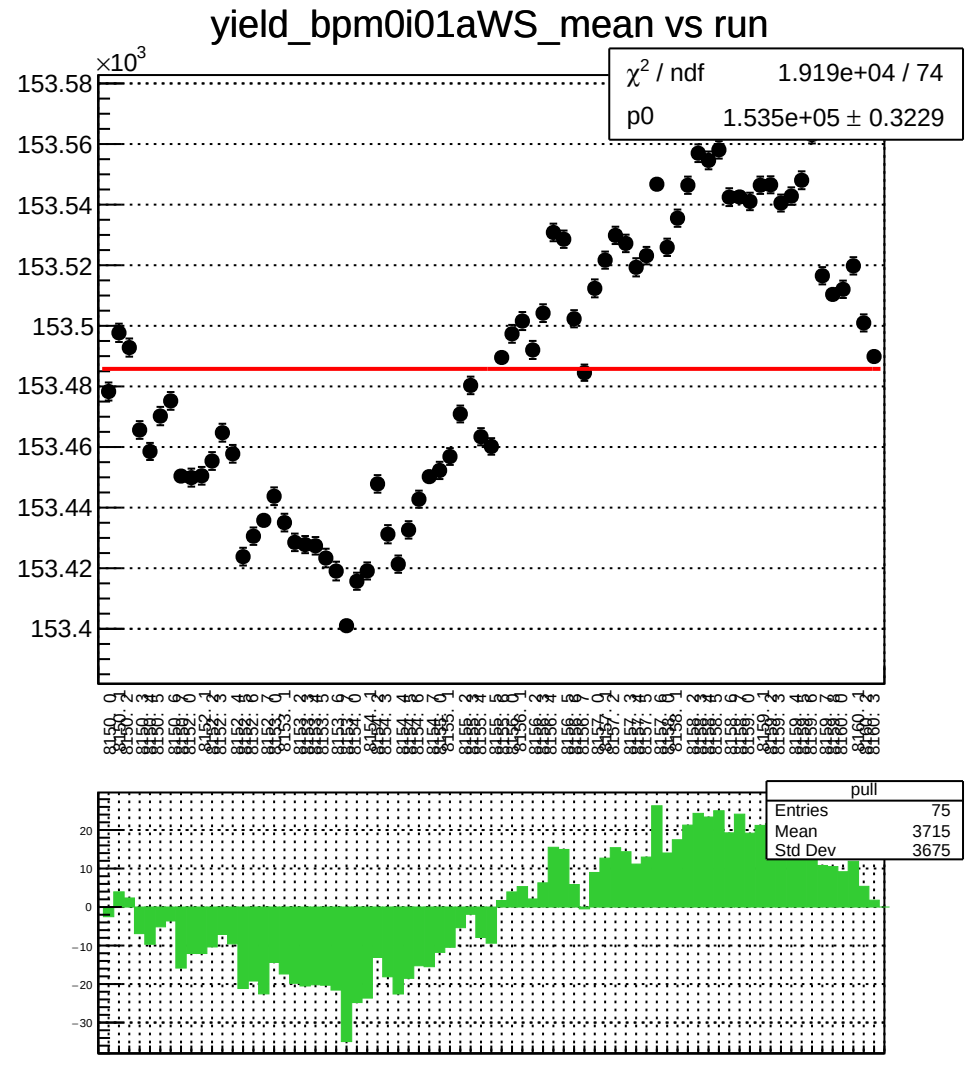

pull1D
Entries 75
Mean 1.641
Std Dev 3.422
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

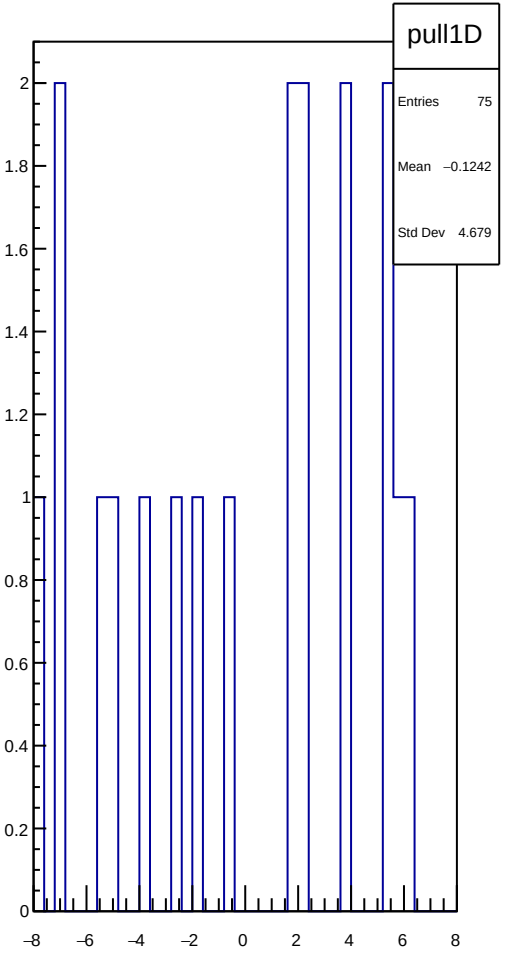

yield_bcm0l02_rms vs run
χ² / ndf 1.681e+04 / 74
p0 0.7439 ± 0.0006226
1
0.9
0.8
0.7
0.6
0.5

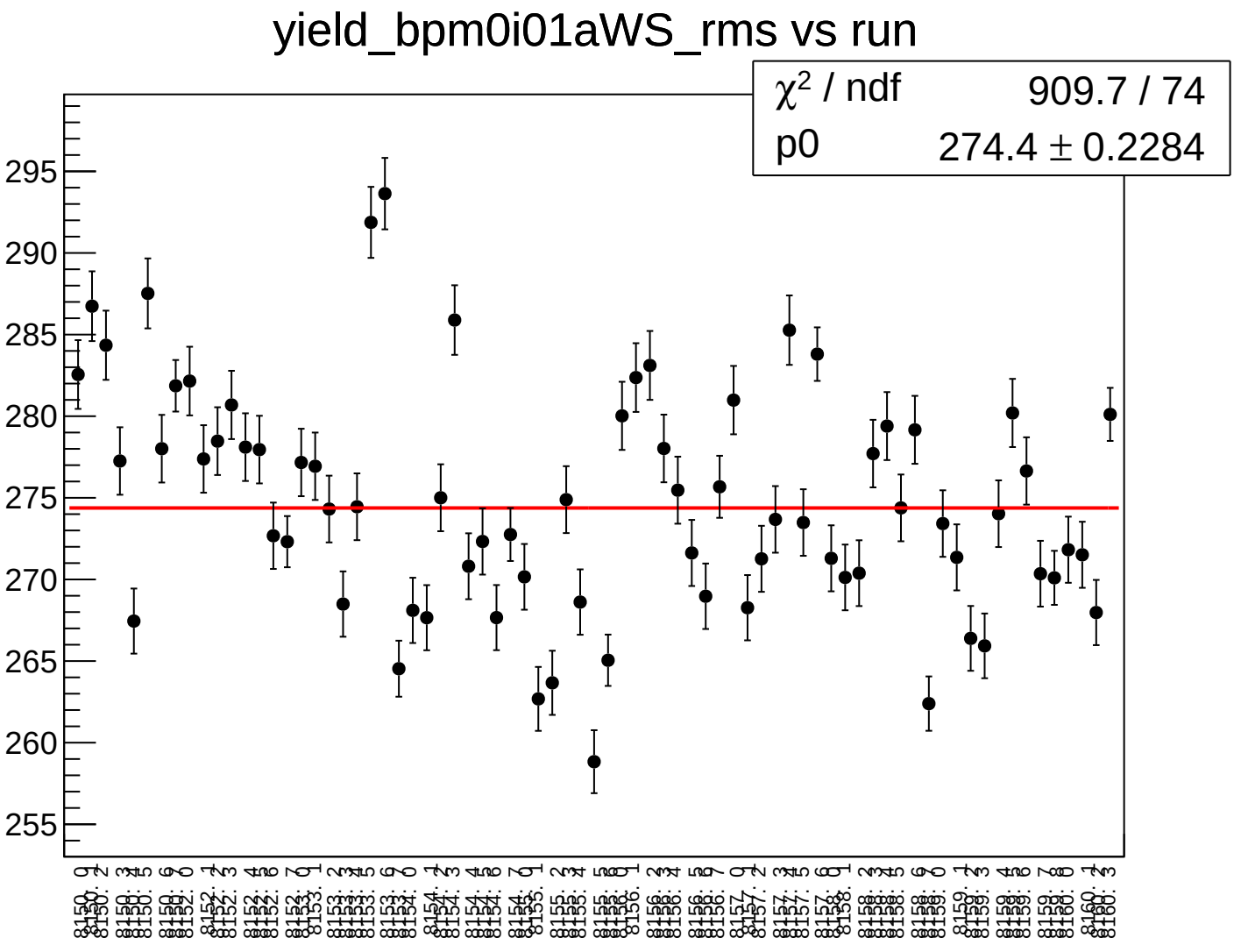

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.015e+04 / 74
p0 1.61e+05 ± 0.3519
161.1
161.05
161
160.95
160.9
pull
Entries 75
Mean −3706
Std Dev 3743
30
20
10
0
−10
−20
−30
−40

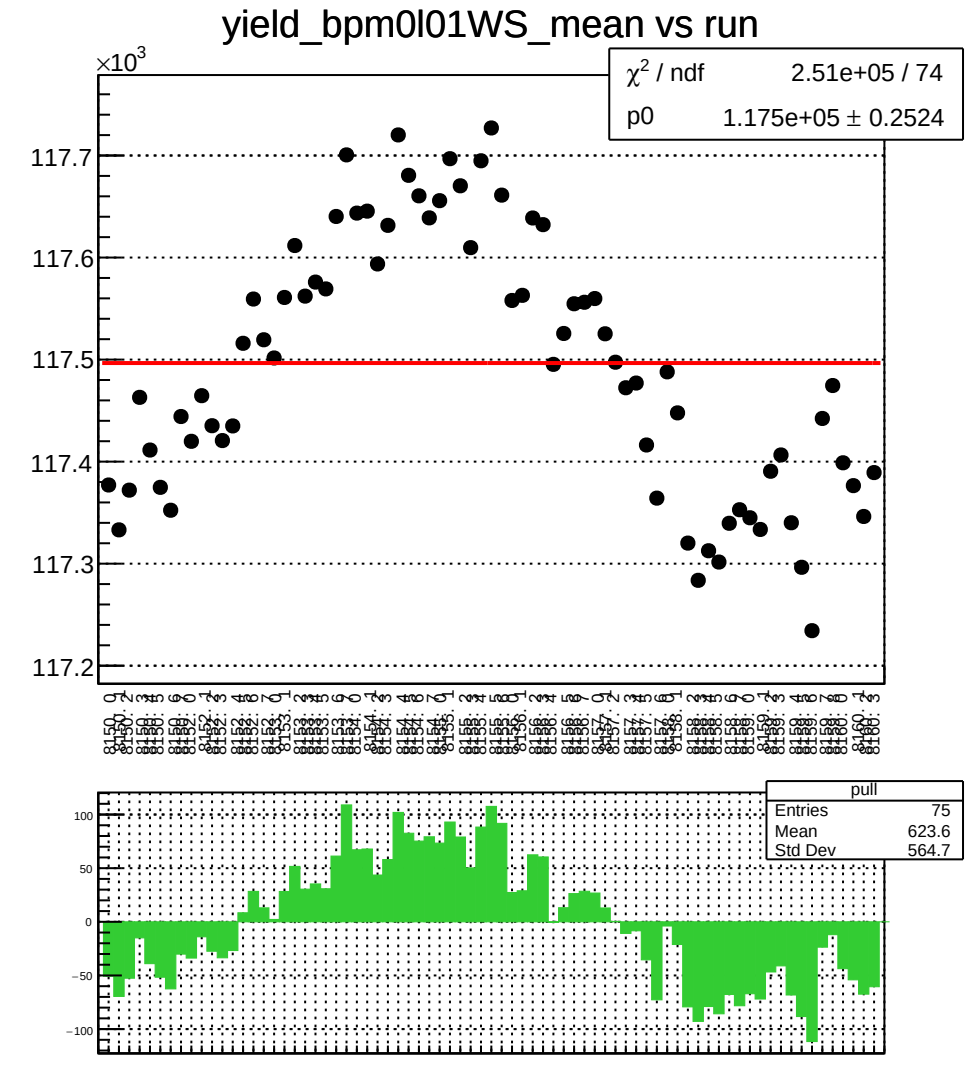

pull1D
Entries 75
Mean −1.16
Std Dev 4.051
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

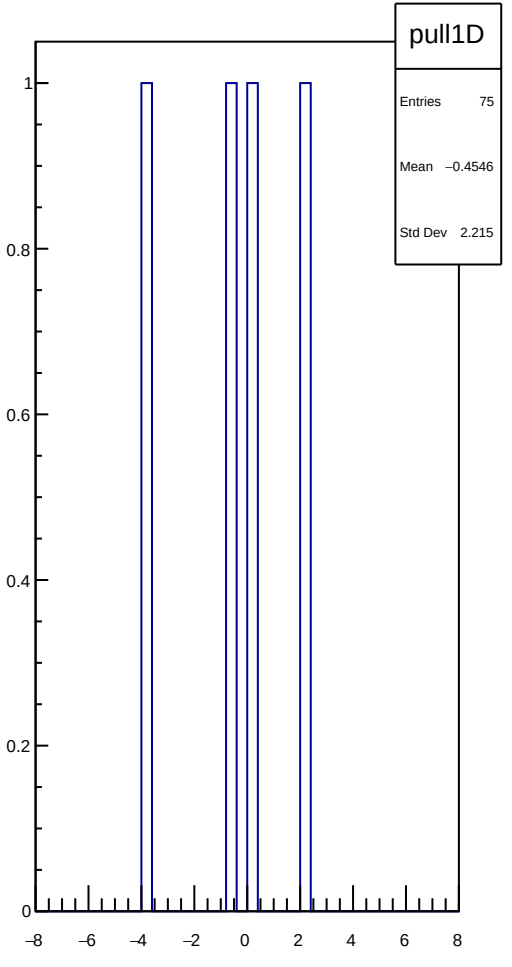

yield_bpm0i01WS_rms vs run
χ² / ndf 944.5 / 74
p0 299 ± 0.2489
325
320
315
310
305
300
295
290
285
280

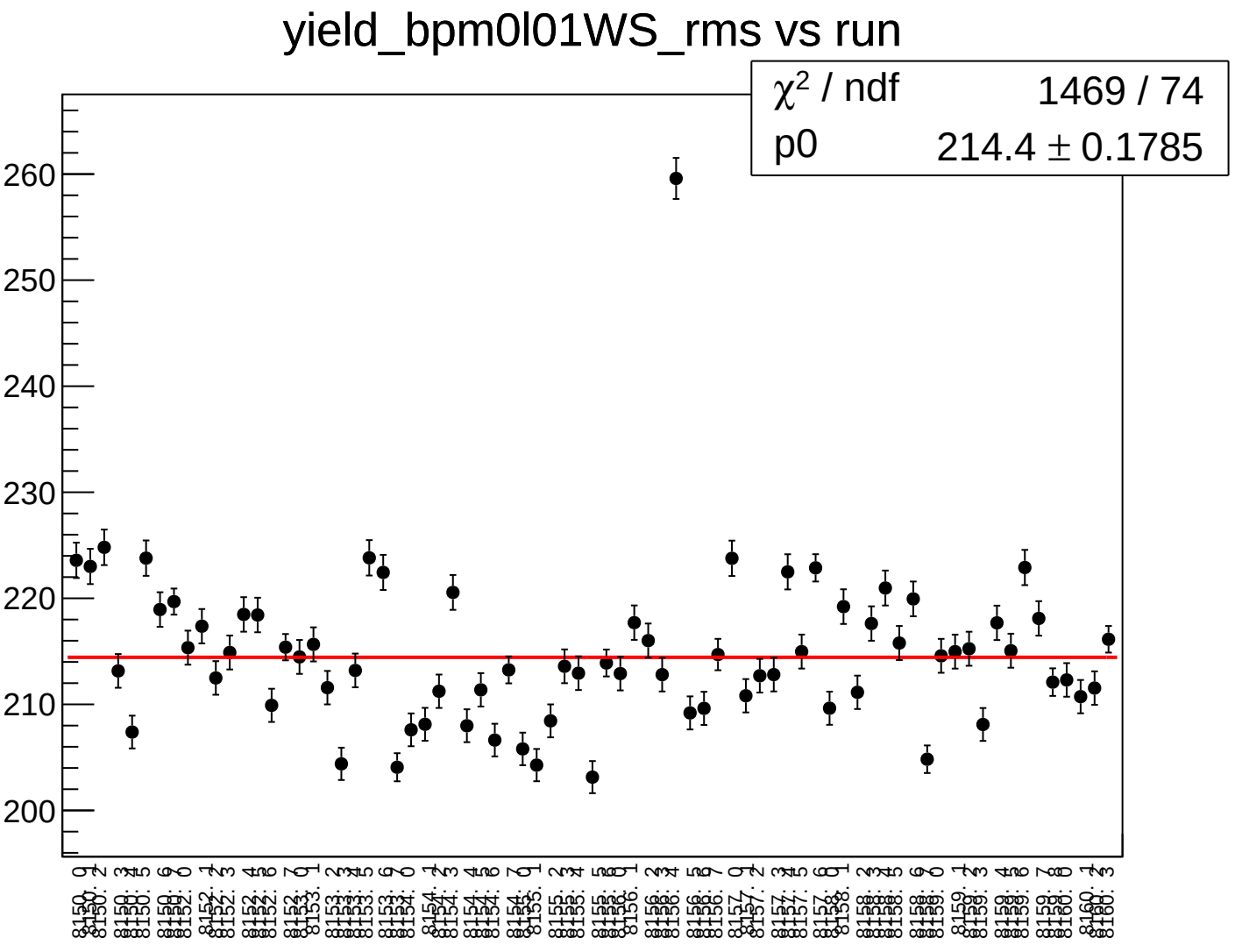

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.919e+04 / 74
p0 1.535e+05 ± 0.3229
153.58
153.56
153.54
153.52
153.5
153.48
153.46
153.44
153.42
153.4
pull
Entries 75
Mean 3715
Std Dev 3675
20
10
0
−10
−20
−30

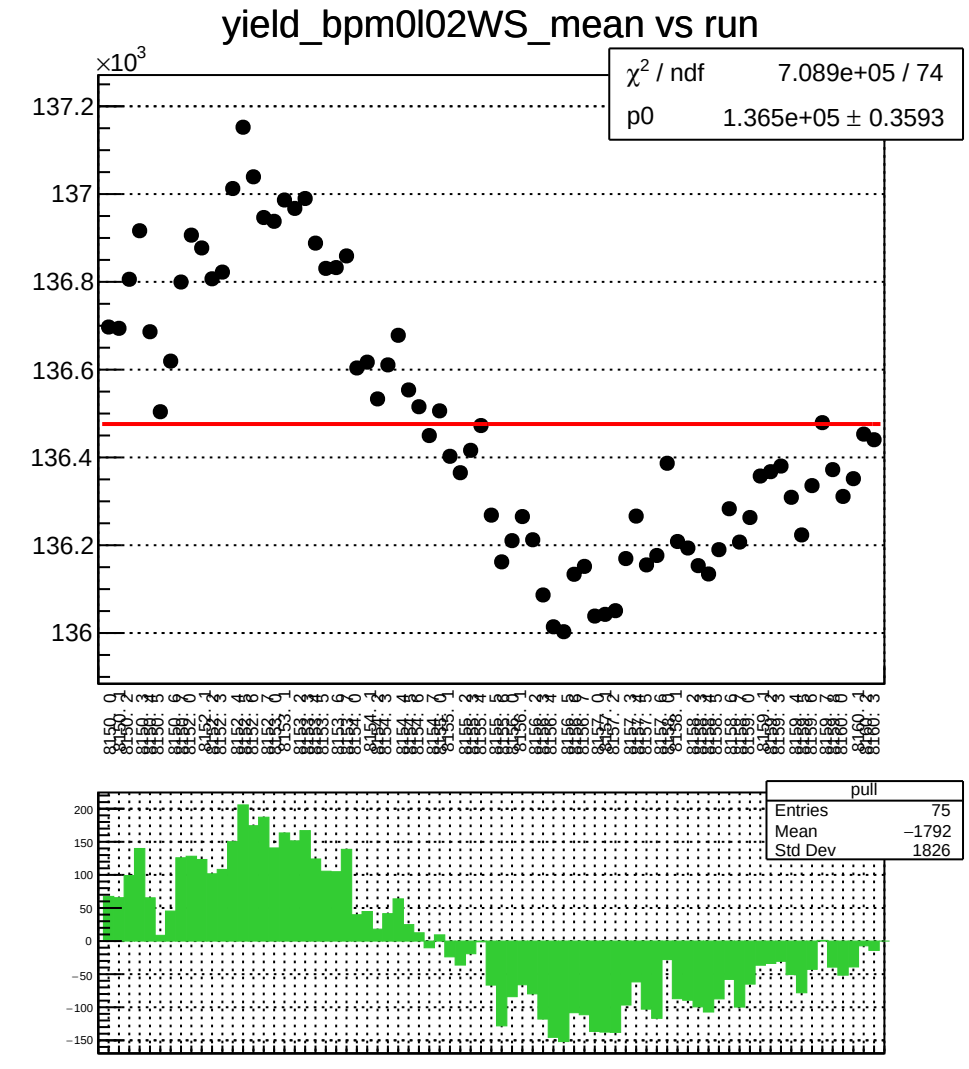

pull1D
Entries 75
Mean −0.1242
Std Dev 4.679
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

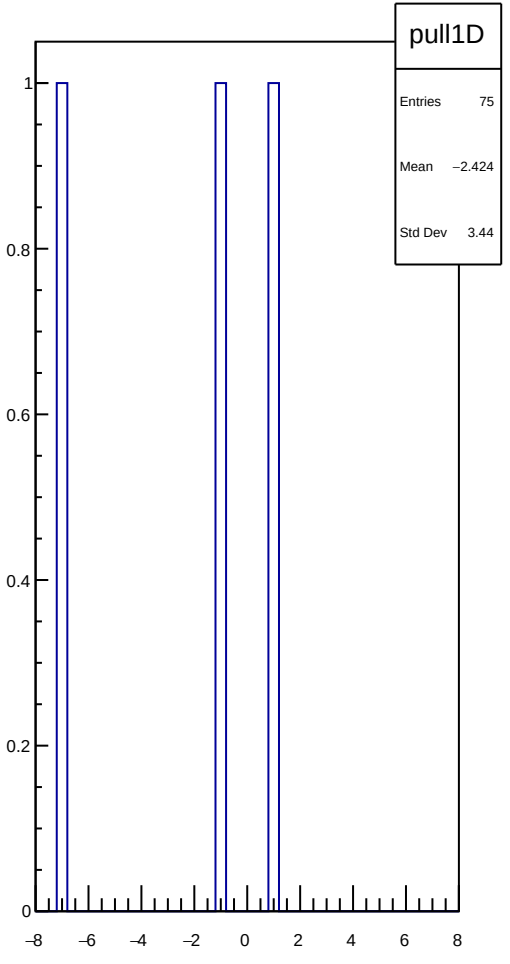

yield_bpm0i01aWS_rms vs run
χ² / ndf 909.7 / 74
p0 274.4 ± 0.2284
295
290
285
280
275
270
265
260
255

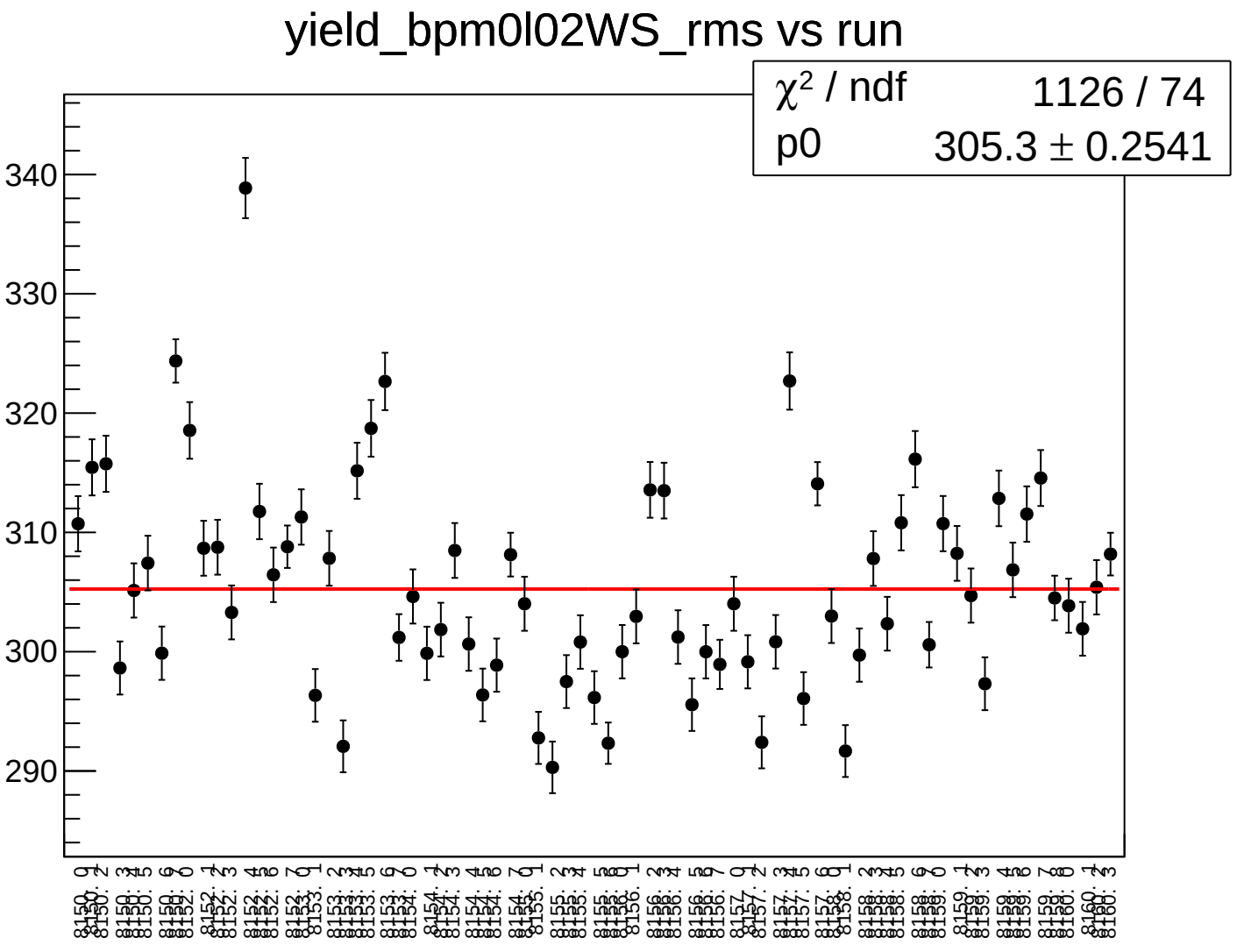

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.51e+05 / 74
p0 1.175e+05 ± 0.2524
117.7
117.6
117.5
117.4
117.3
117.2
pull
Entries 75
Mean 623.6
Std Dev 564.7
100
50
0
−50
−100

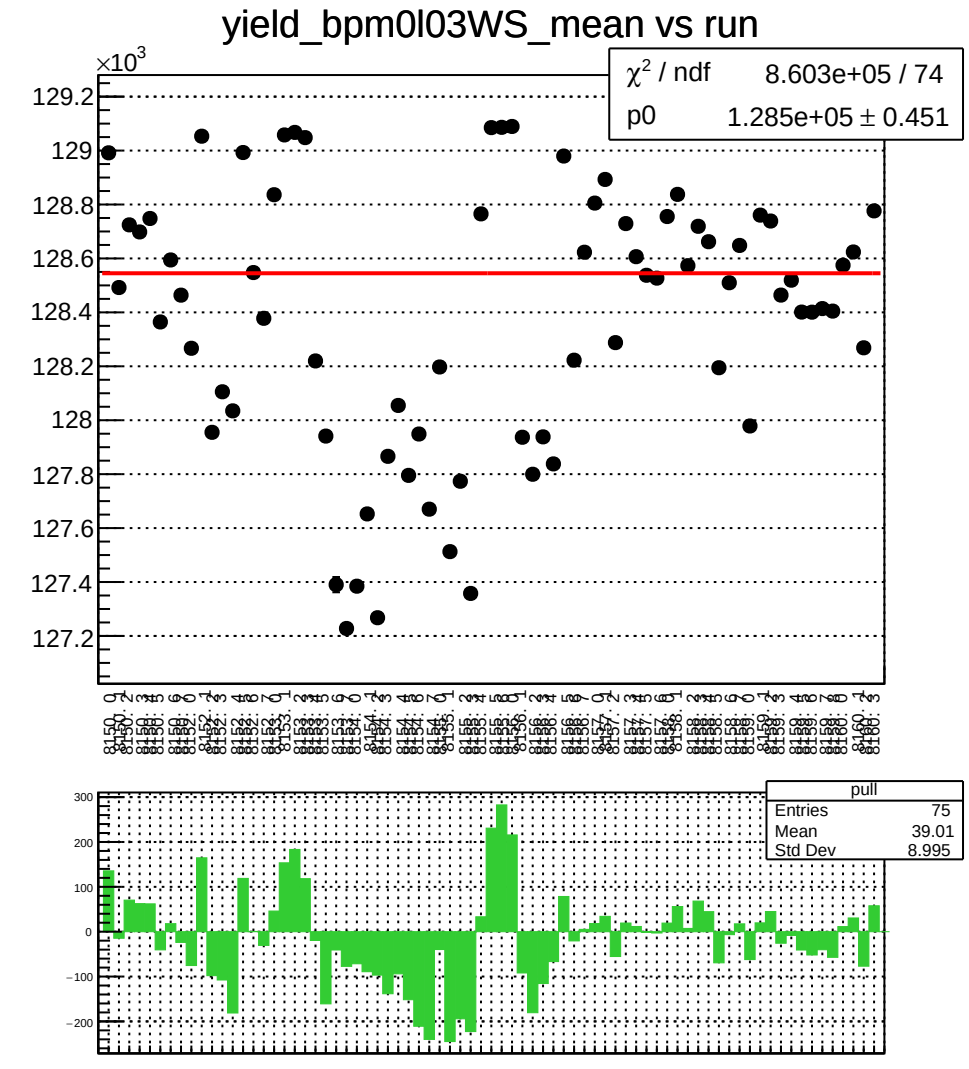

pull1D
Entries 75
Mean −0.4546
Std Dev 2.215
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

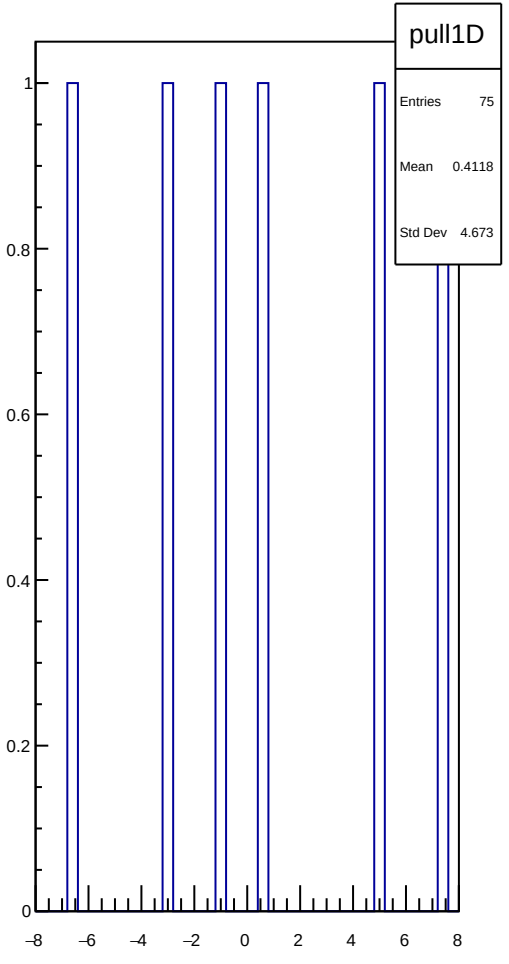

yield_bpm0l01WS_rms vs run
χ² / ndf 1469 / 74
p0 214.4 ± 0.1785
260
250
240
230
220
210
200

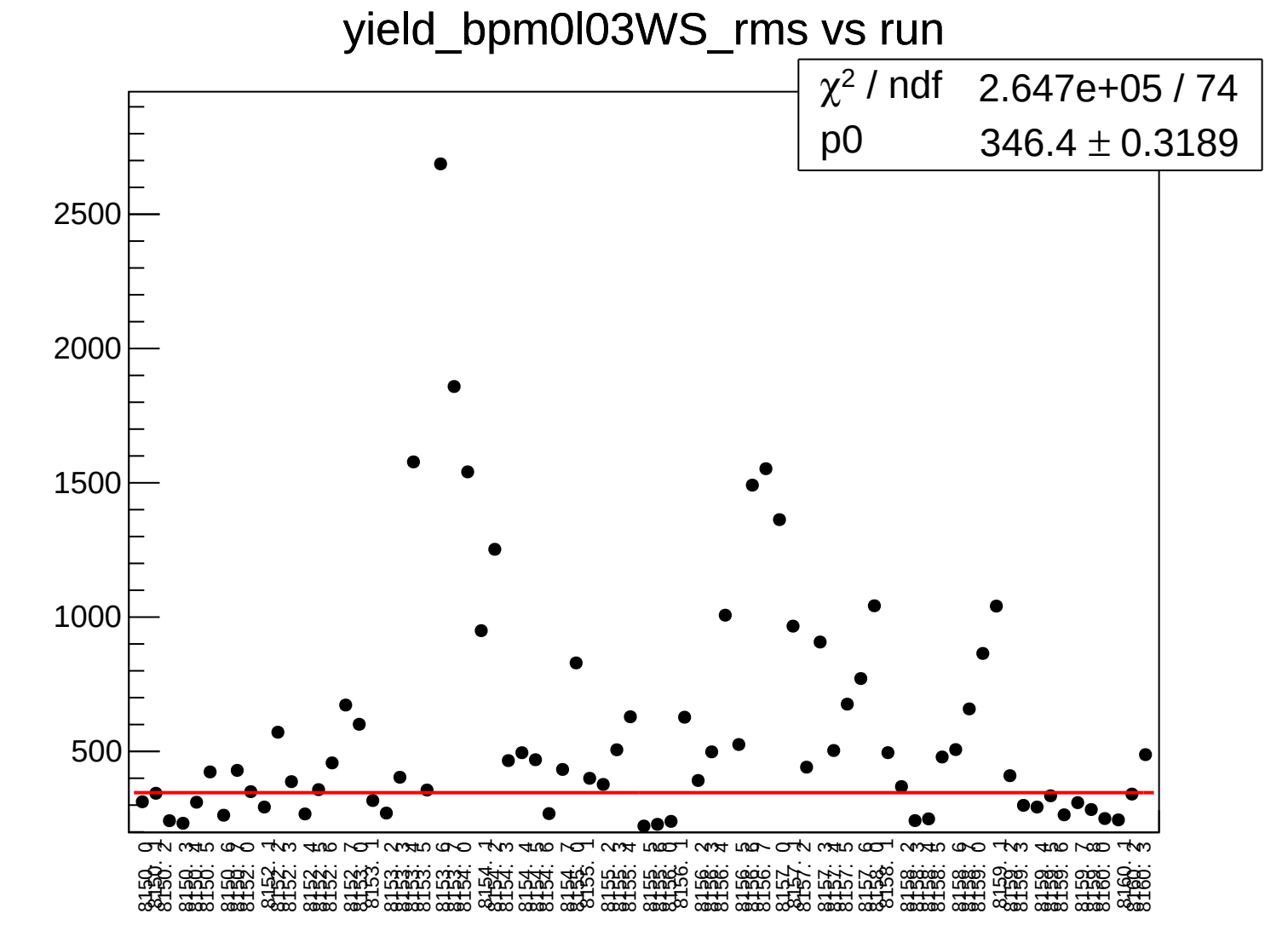

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.089e+05 / 74
p0 1.365e+05 ± 0.3593
137.2
137
136.8
136.6
136.4
136.2
136
pull
Entries 75
Mean −1792
Std Dev 1826
200
150
100
50
0
−50
−100
−150

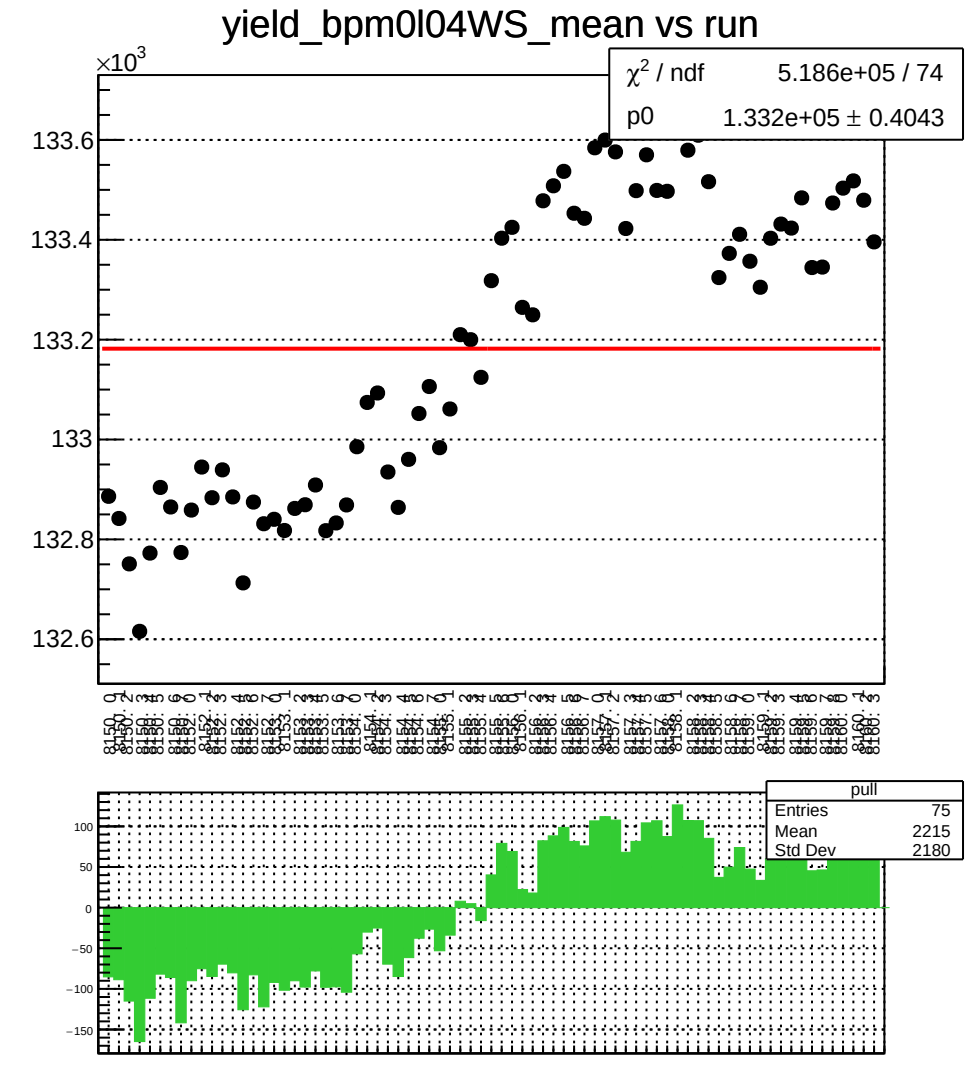

pull1D
Entries 75
Mean −2.424
Std Dev 3.44
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

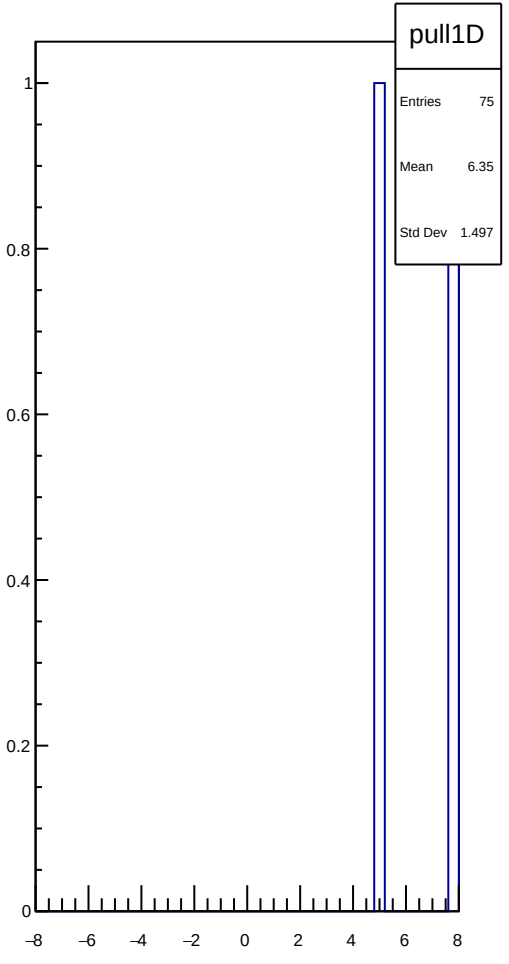

yield_bpm0l02WS_rms vs run
χ² / ndf 1126 / 74
p0 305.3 ± 0.2541
340
330
320
310
300
290

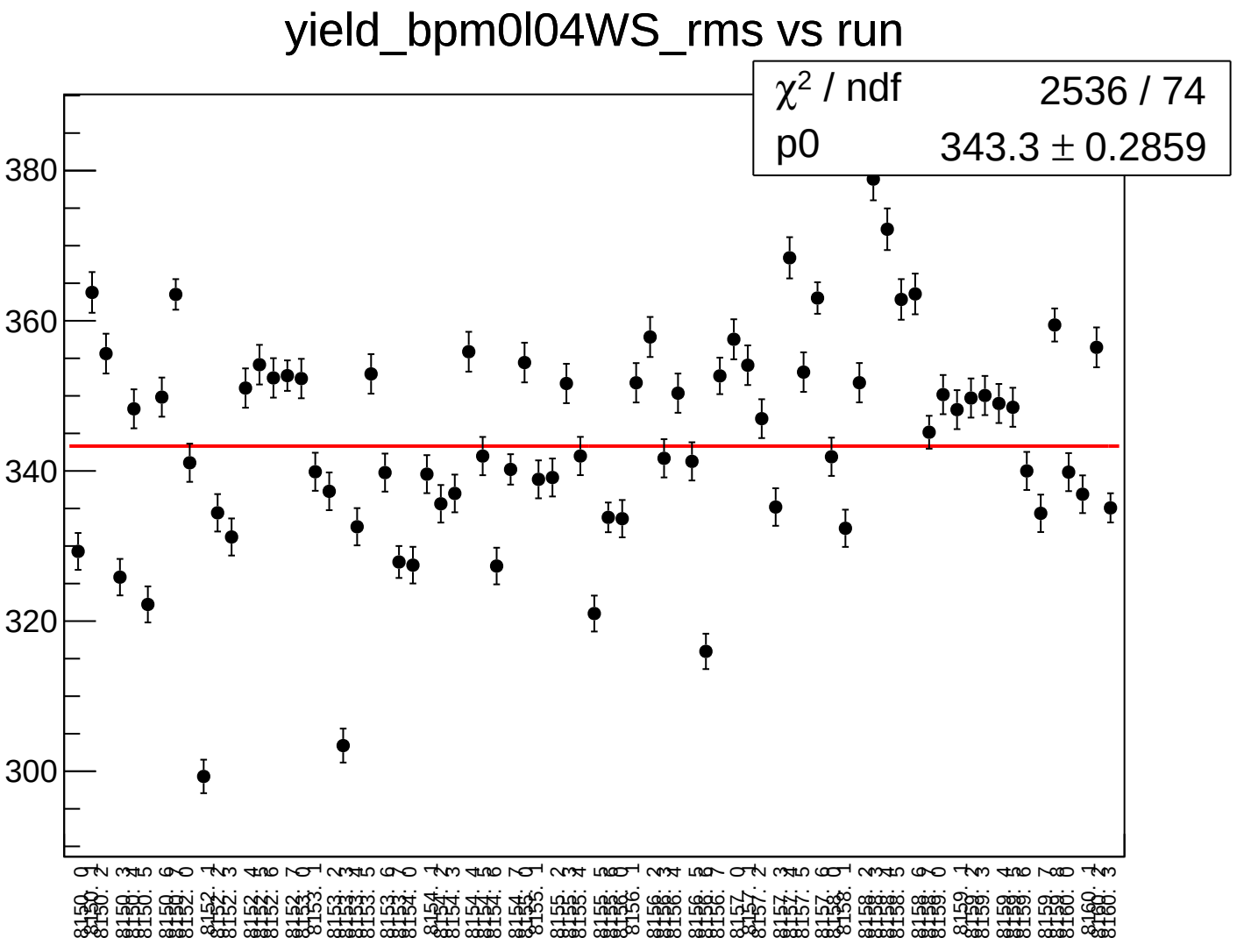

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 8.603e+05 / 74
p0 1.285e+05 ± 0.451
129.2
129
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
pull
Entries 75
Mean 39.01
Std Dev 8.995
300
200
100
0
−100
−200

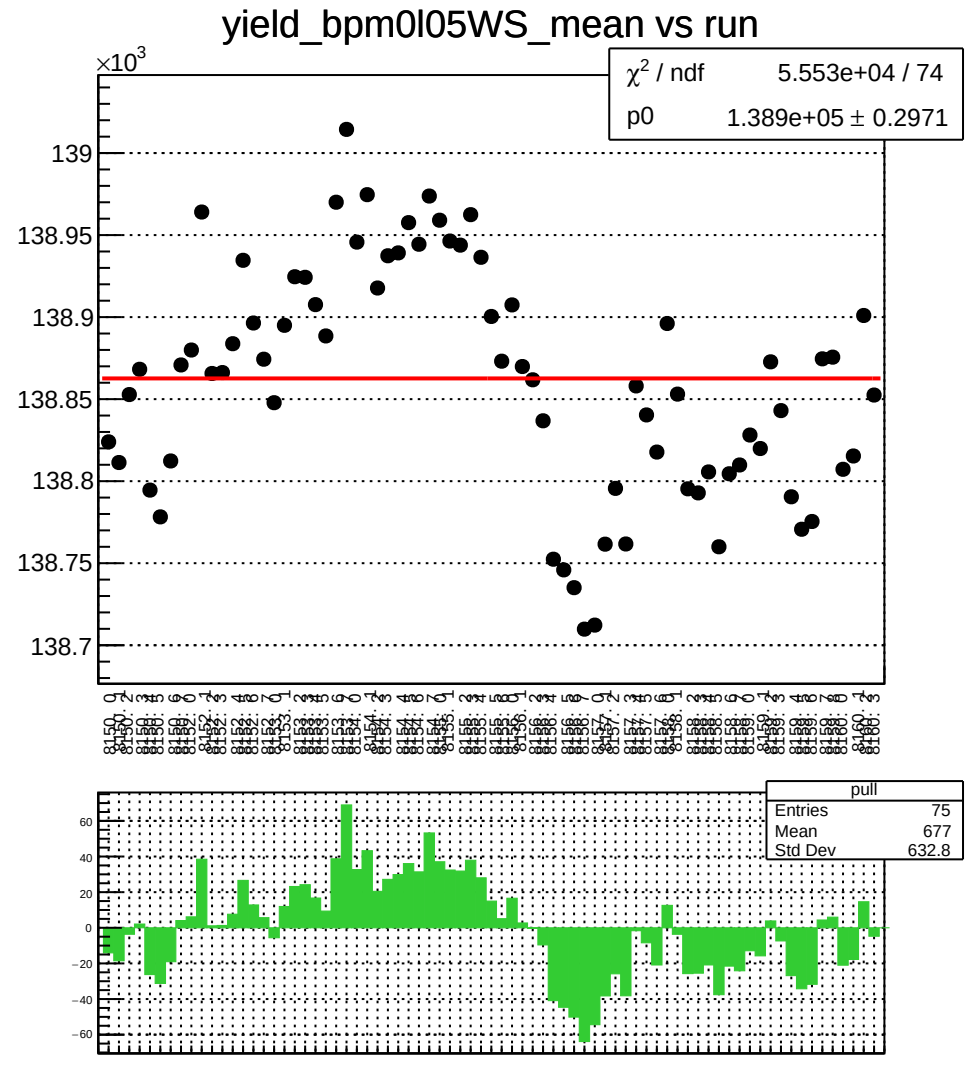

pull1D
Entries 75
Mean 0.4118
Std Dev 4.673
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

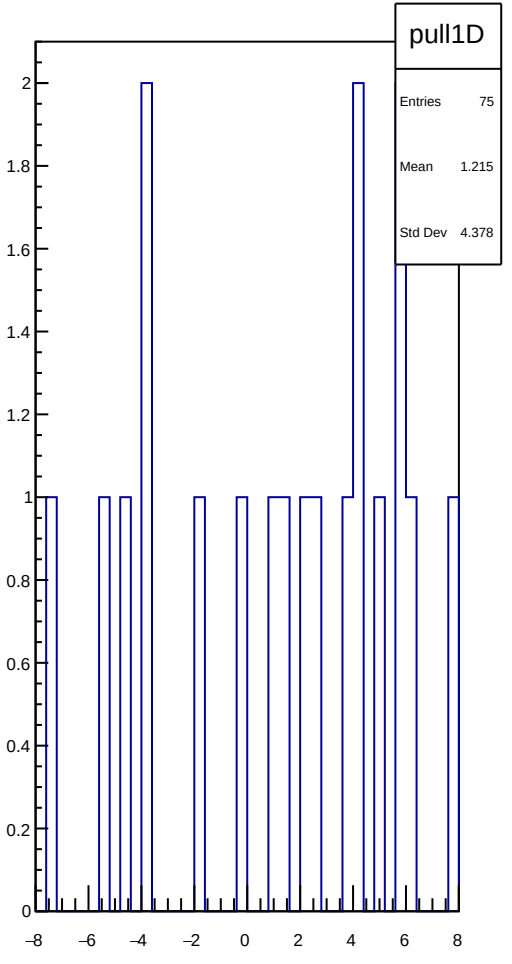

yield_bpm0l03WS_rms vs run
χ² / ndf 2.647e+05 / 74
p0 346.4 ± 0.3189
2500
2000
1500
1000
500

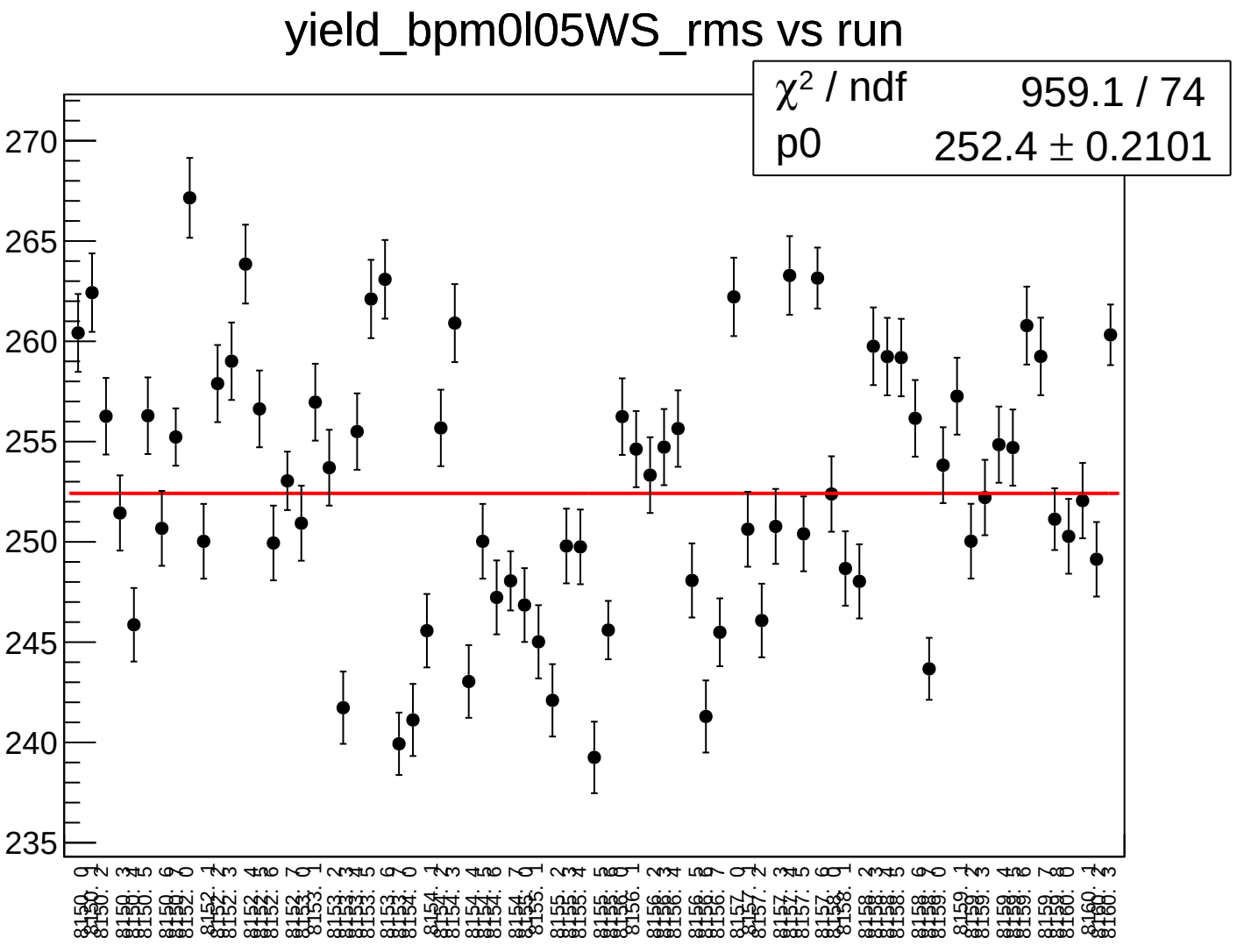

yield_bpm0l04WS_mean vs run
×10^3
χ^2 / ndf 5.186e+05 / 74
p0 1.332e+05 ± 0.4043
133.6
133.4
133.2
133
132.8
132.6
pull
Entries 75
Mean 2215
Std Dev 2180
100
50
0
−50
−100
−150

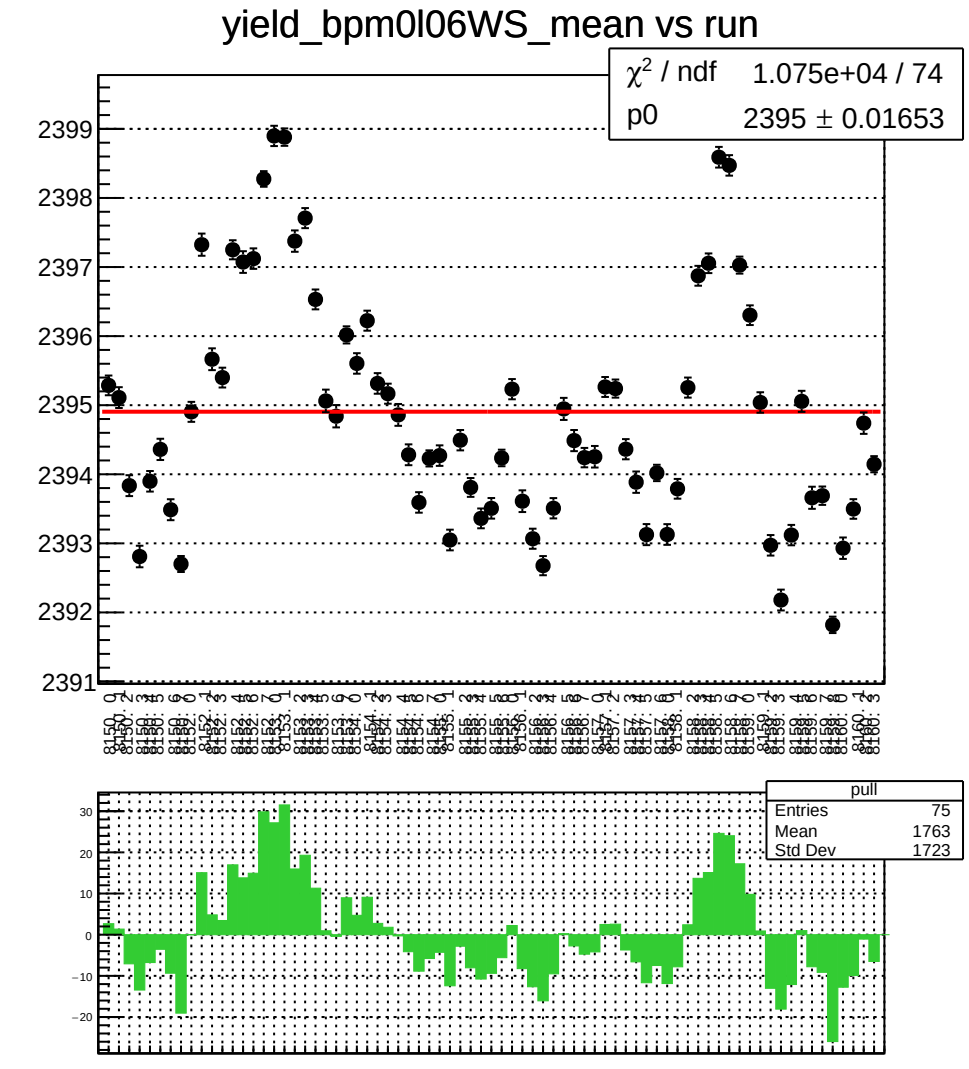

pull1D
Entries 75
Mean 6.35
Std Dev 1.497
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

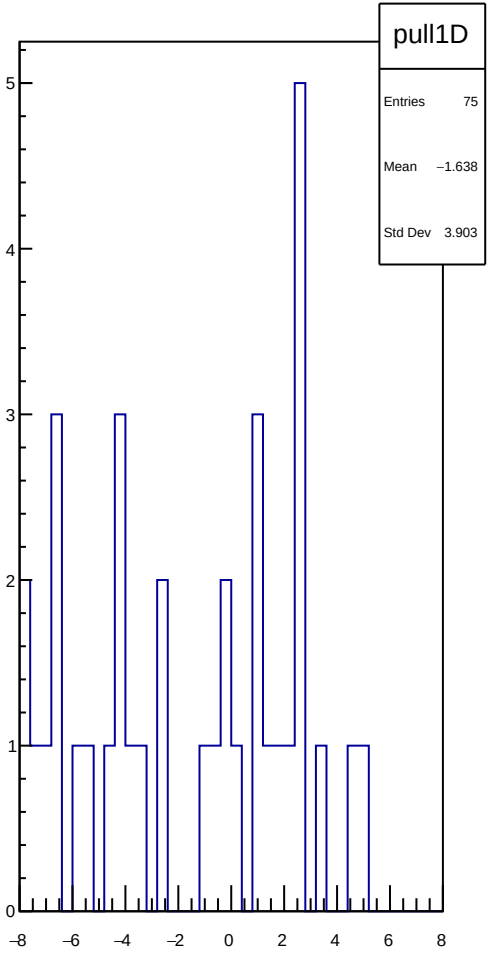

yield_bpm0l04WS_rms vs run
χ² / ndf 2536 / 74
p0 343.3 ± 0.2859
380
360
340
320
300

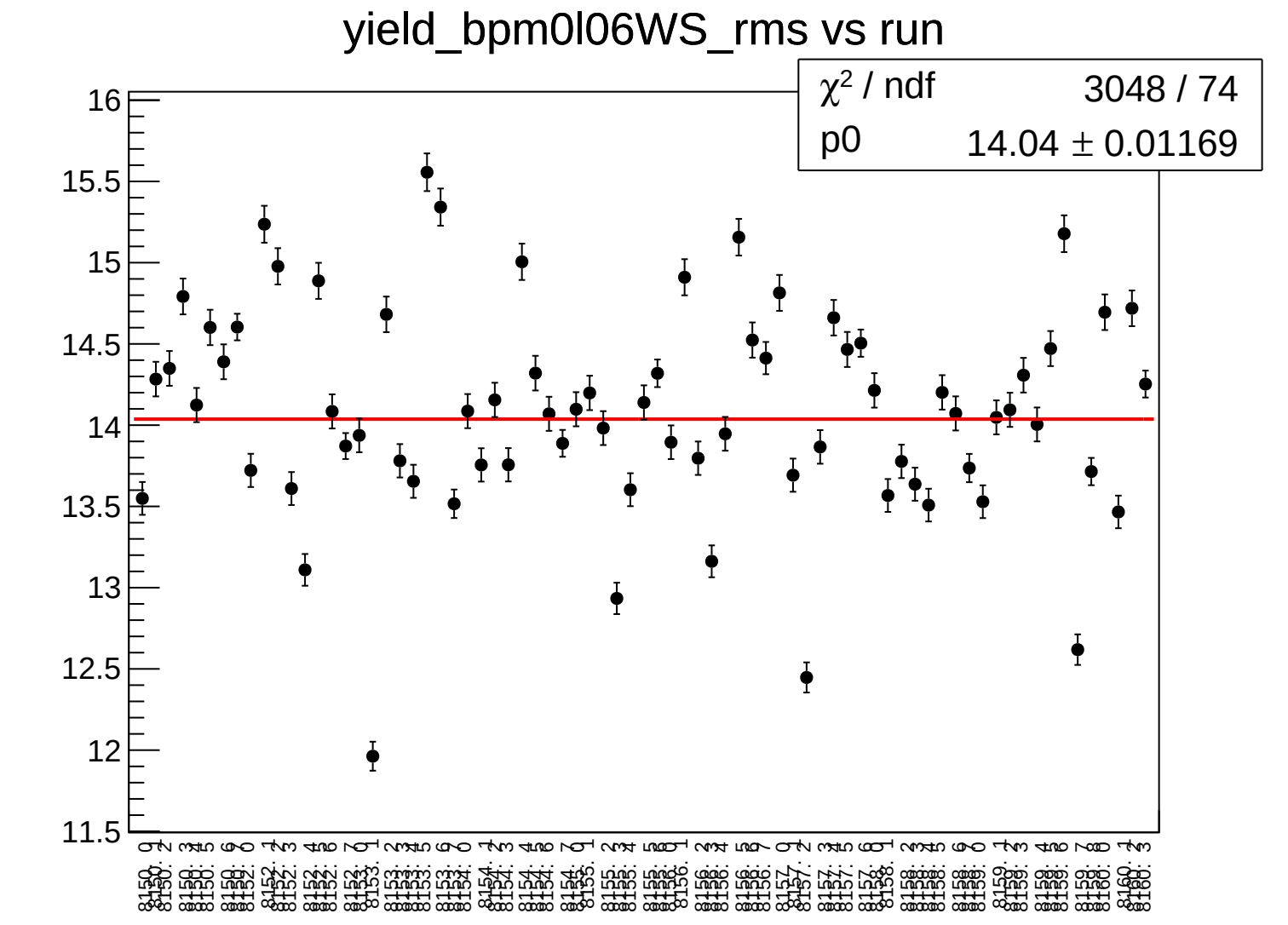

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 5.553e+04 / 74
p0 1.389e+05 ± 0.2971
139
138.95
138.9
138.85
138.8
138.75
138.7
pull
Entries 75
Mean 677
Std Dev 632.8
60
40
20
0
−20
−40
−60

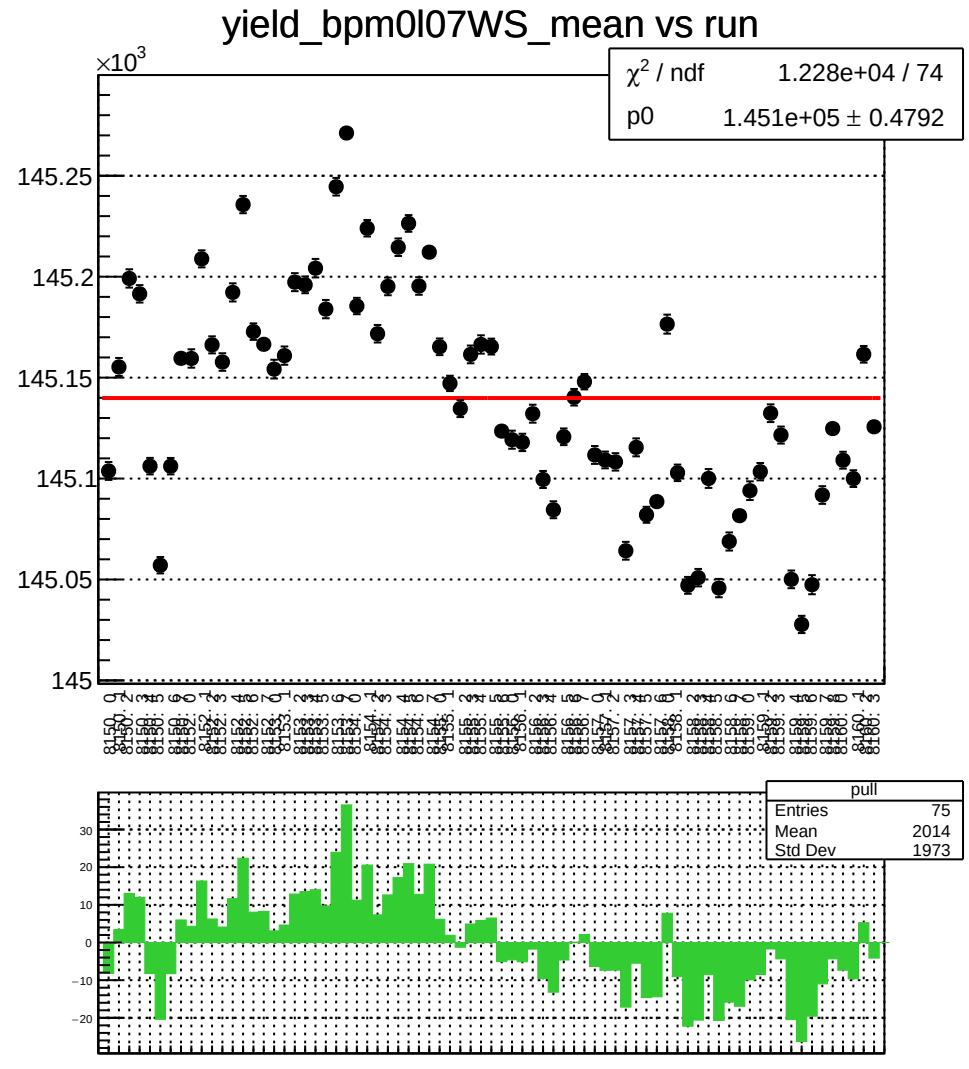

pull1D
Entries 75
Mean 1.215
Std Dev 4.378
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

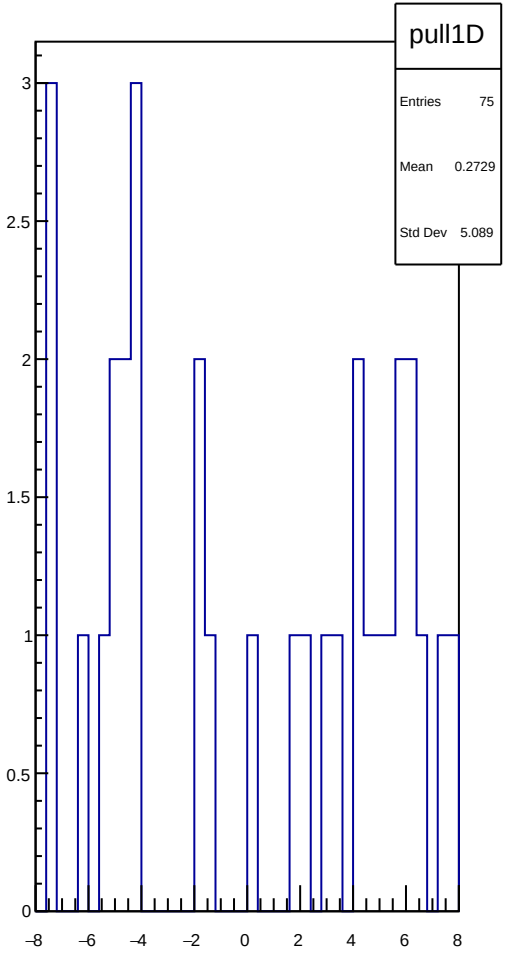

yield_bpm0l05WS_rms vs run
χ² / ndf 959.1 / 74
p0 252.4 ± 0.2101
270
265
260
255
250
245
240
235

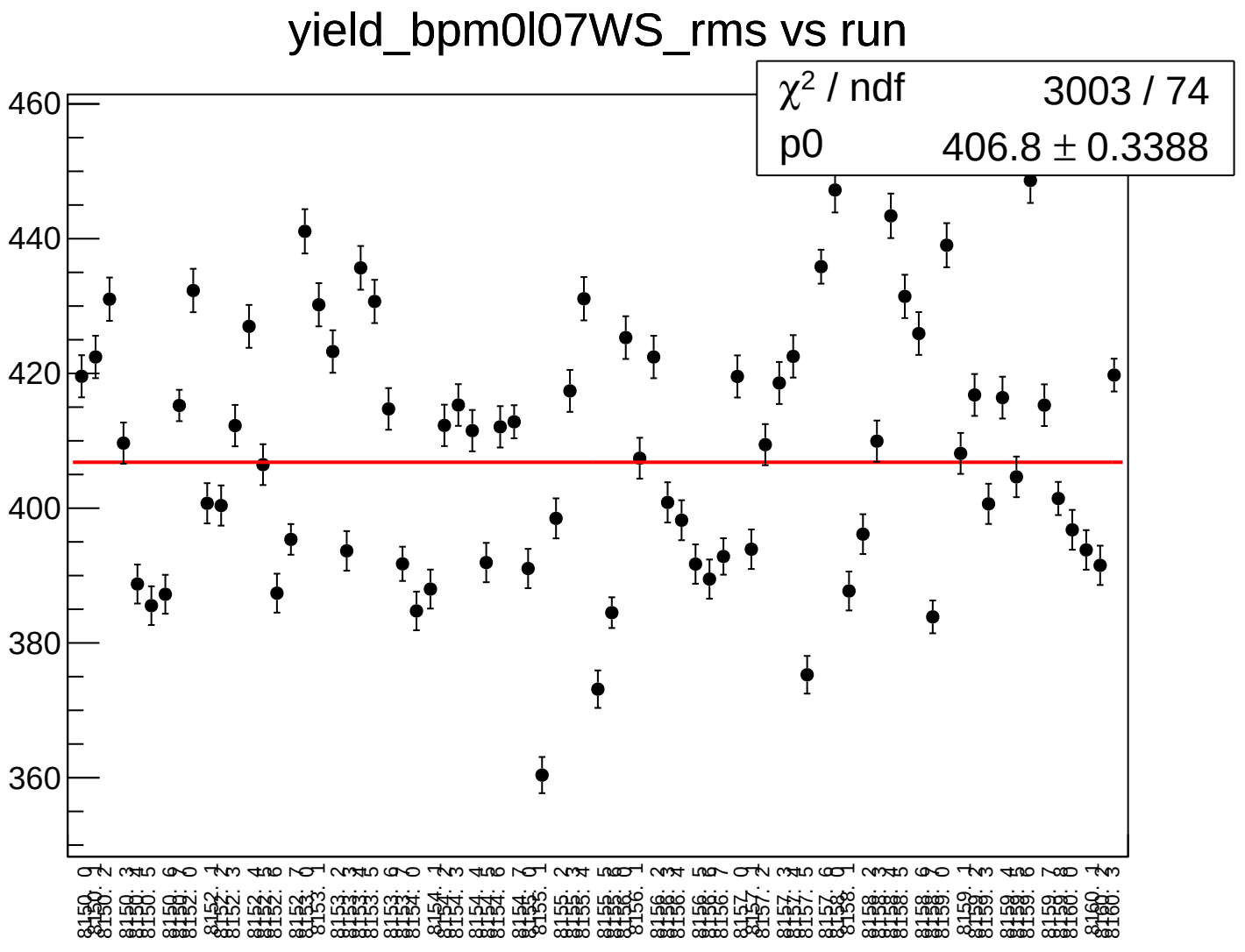

yield_bpm0l06WS_mean vs run
χ² / ndf 1.075e+04 / 74
p0 2395 ± 0.01653
2399
2398
2397
2396
2395
2394
2393
2392
2391
pull
Entries 75
Mean 1763
Std Dev 1723
30
20
10
0
−10
−20

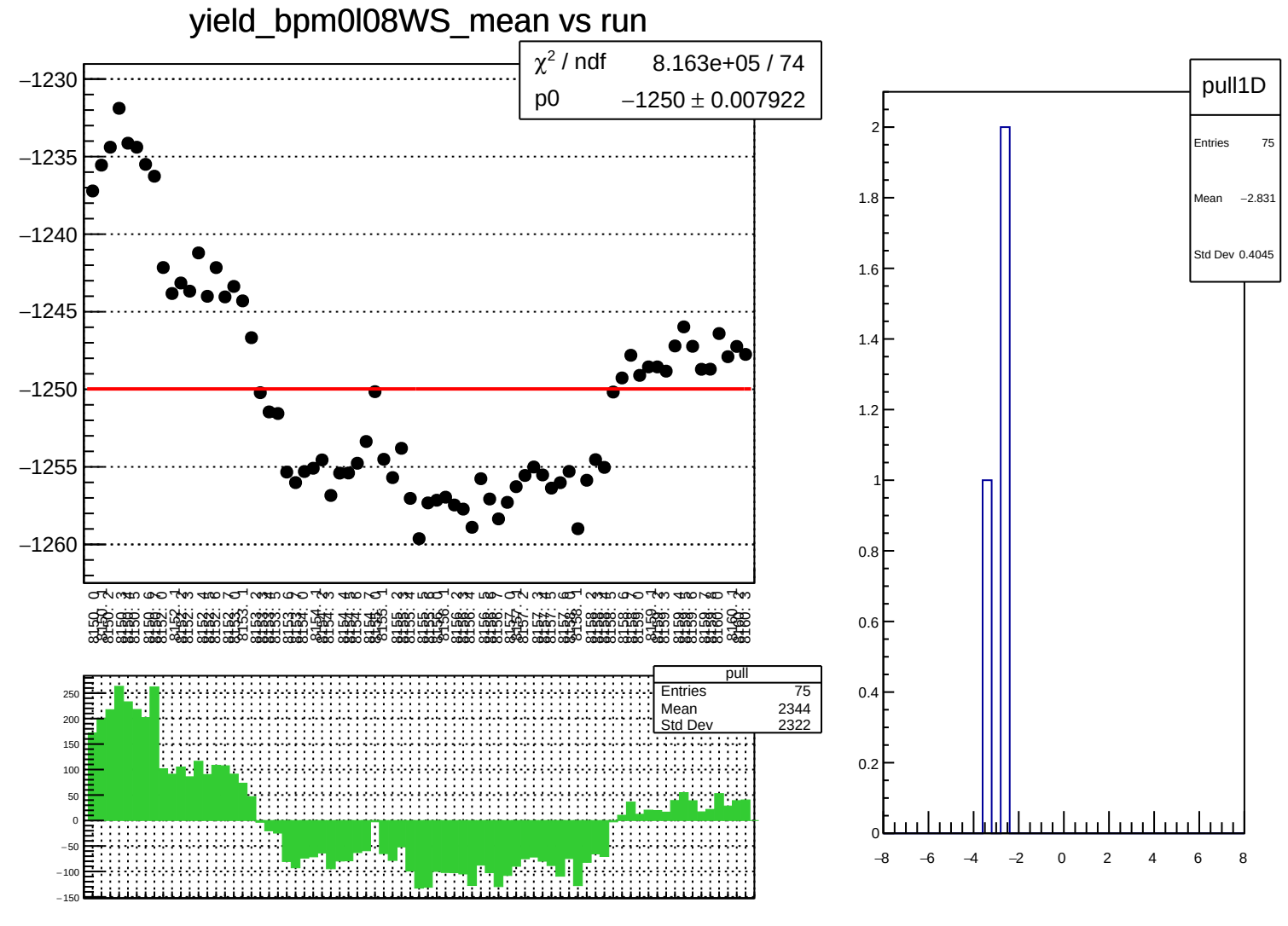

pull1D
Entries 75
Mean −1.638
Std Dev 3.903
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

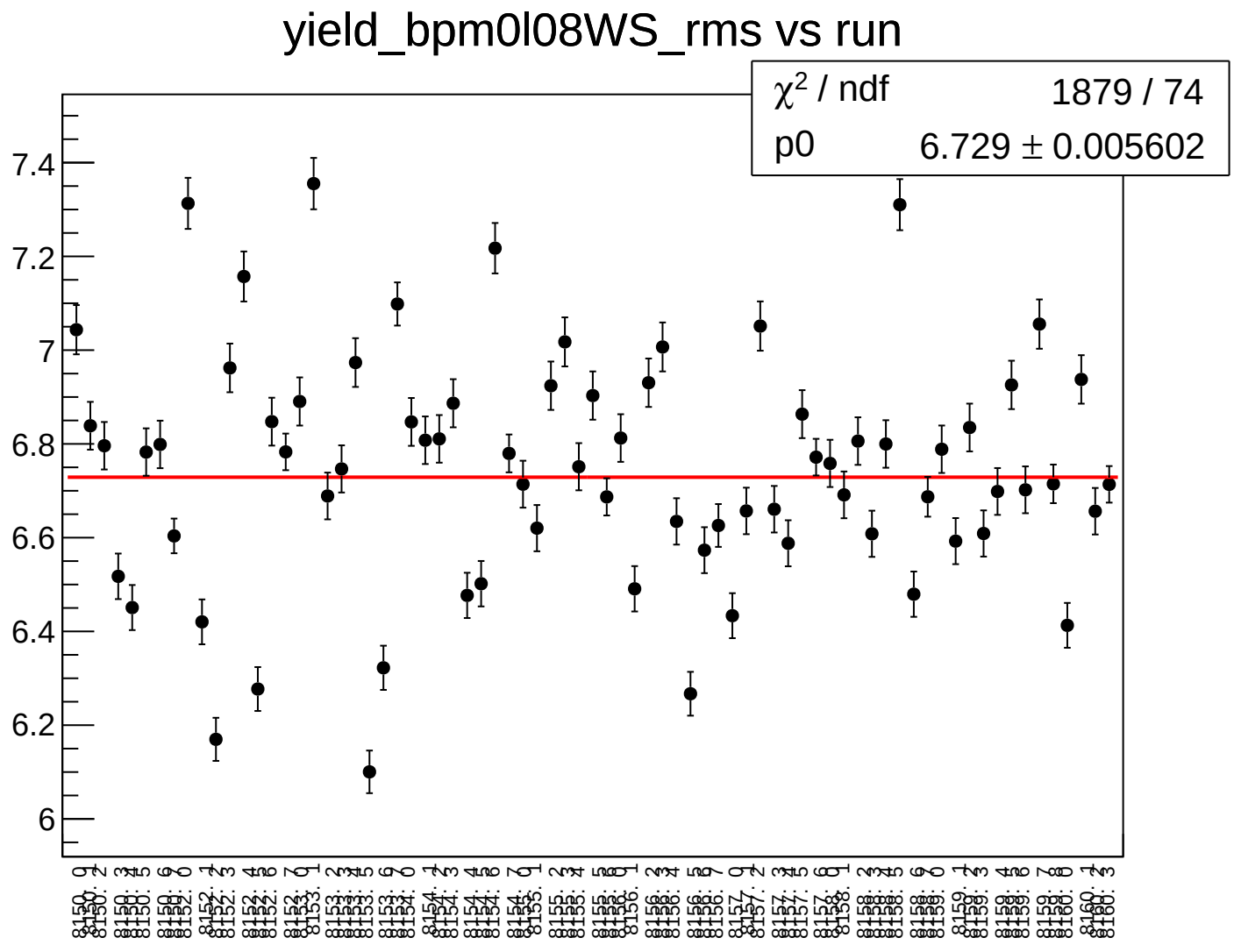

yield_bpm0l06WS_rms vs run
χ² / ndf 3048 / 74
p0 14.04 ± 0.01169
16
15.5
15
14.5
14
13.5
13
12.5
12
11.5

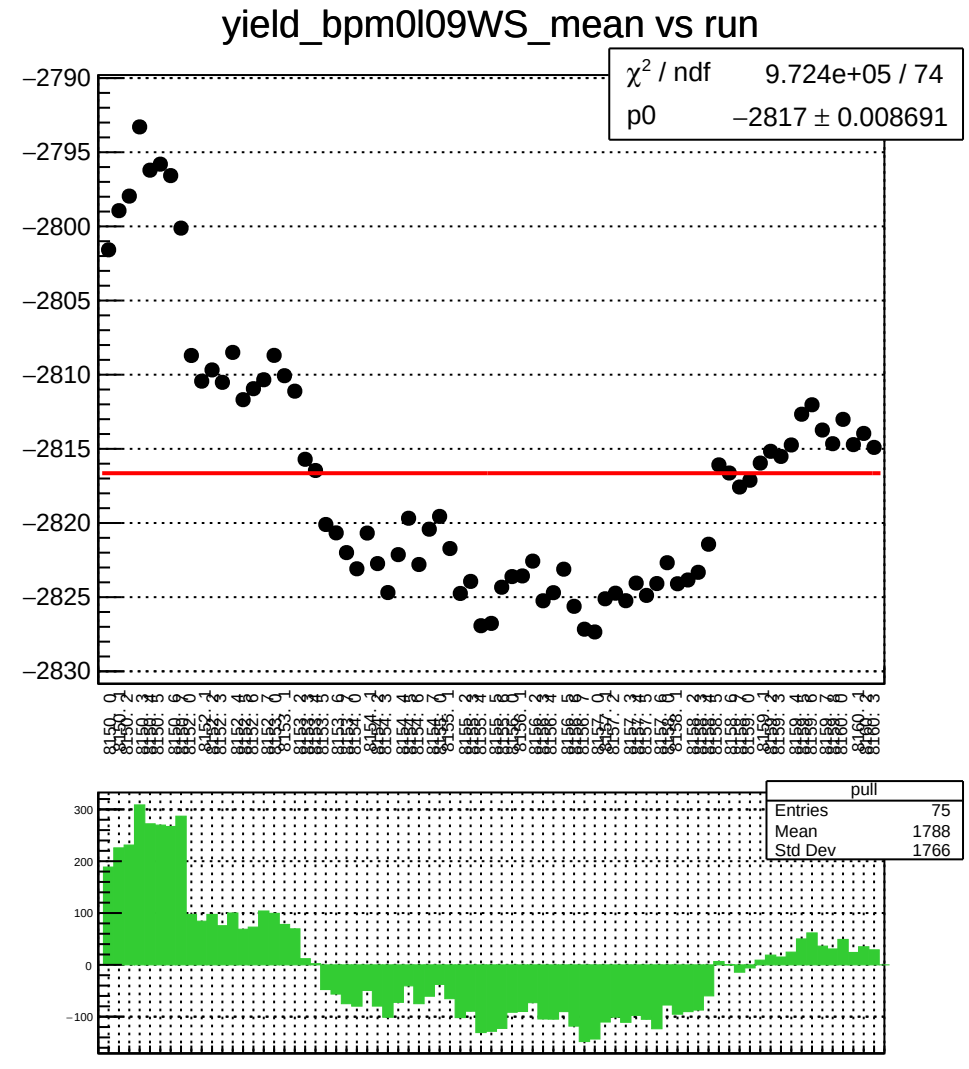

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.228e+04 / 74
p0 1.451e+05 ± 0.4792
145.25
145.2
145.15
145.1
145.05
145
pull
Entries 75
Mean 2014
Std Dev 1973
30
20
10
0
−10
−20

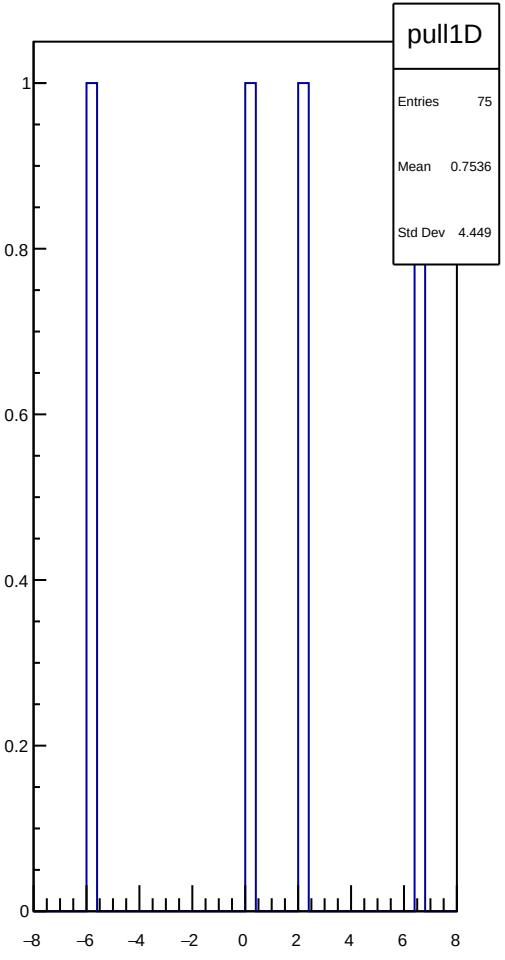

pull1D
Entries 75
Mean 0.2729
Std Dev 5.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

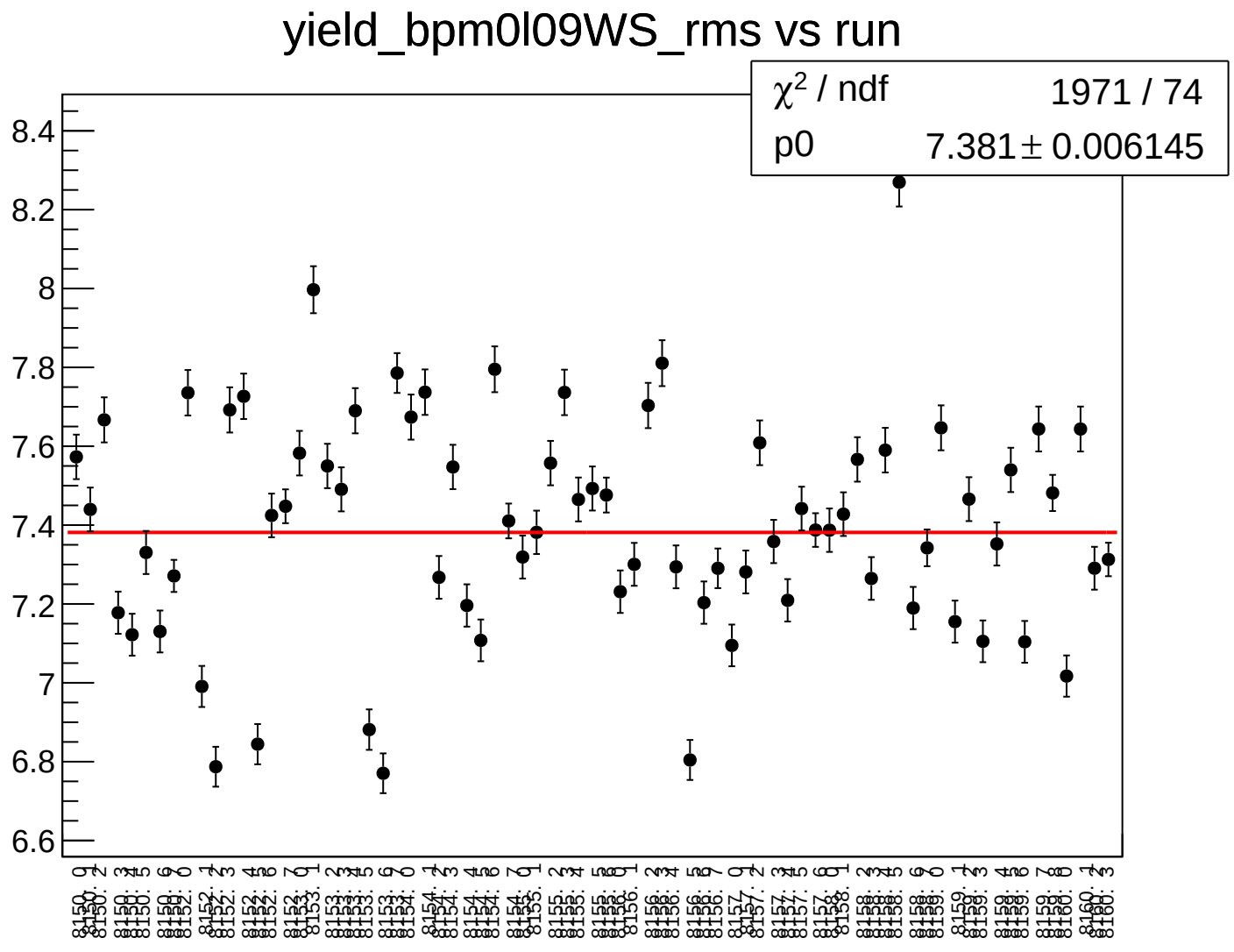

yield_bpm0l07WS_rms vs run
χ² / ndf 3003 / 74
p0 406.8 ± 0.3388
460
440
420
400
380
360

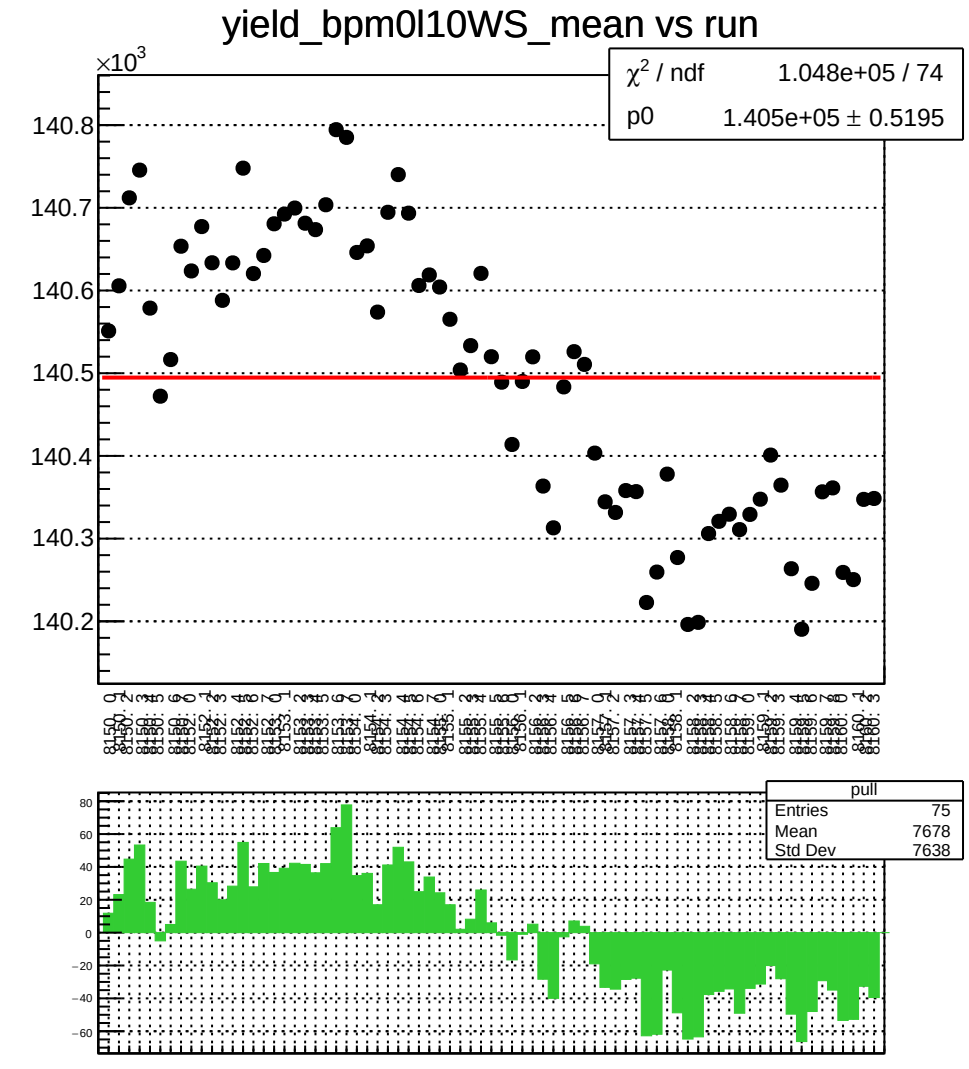

yield_bpm0l08WS_mean vs run
χ² / ndf 8.163e+05 / 74
p0 −1250 ± 0.007922
−1230
−1235
−1240
−1245
−1250
−1255
−1260
pull
Entries 75
Mean 2344
Std Dev 2322
250
200
150
100
50
0
−50
−100
−150
pull1D
Entries 75
Mean −2.831
Std Dev 0.4045
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

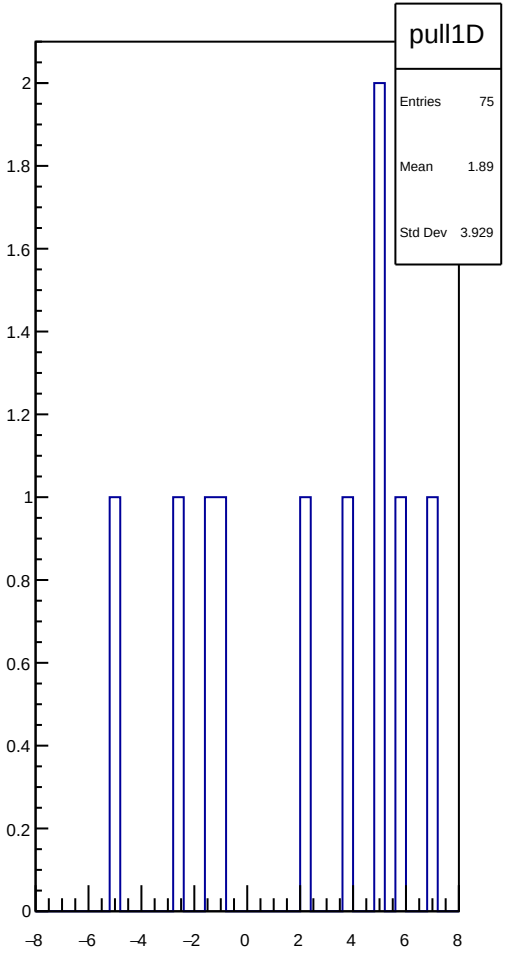

yield_bpm0l08WS_rms vs run
χ^2 / ndf 1879 / 74
p0 6.729 ± 0.005602
7.4
7.2
7
6.8
6.6
6.4
6.2
6

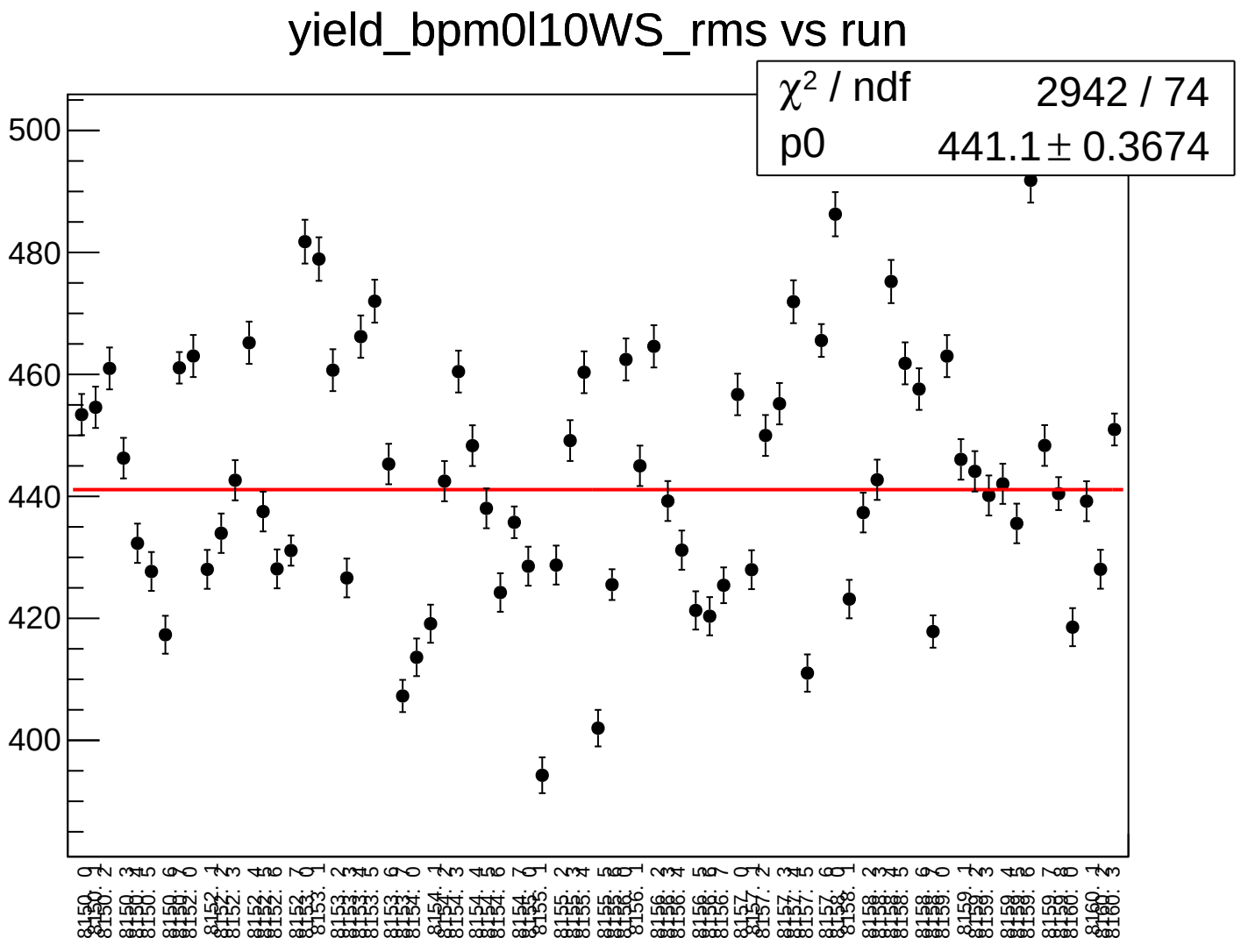

yield_bpm0l09WS_mean vs run
χ² / ndf 9.724e+05 / 74
p0 −2817 ± 0.008691
pull
Entries 75
Mean 1788
Std Dev 1766

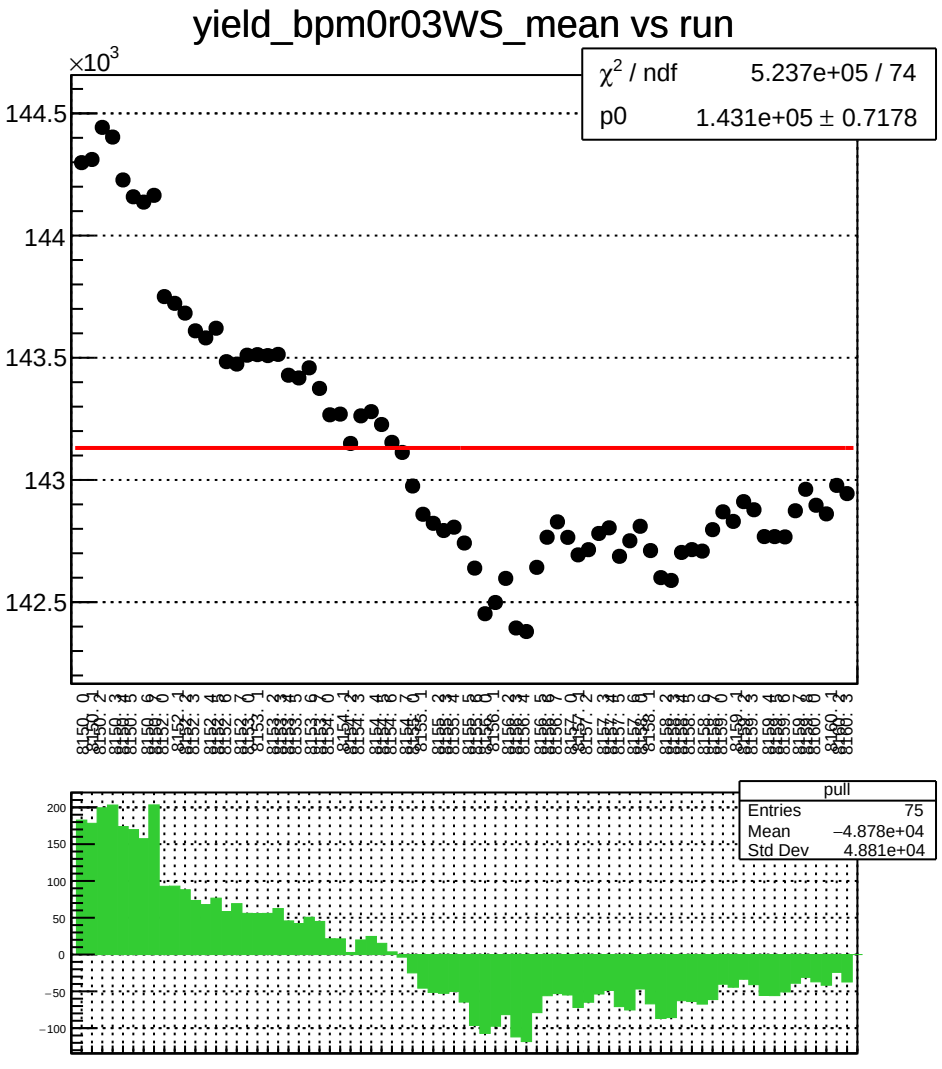

pull1D
Entries 75
Mean 0.7536
Std Dev 4.449

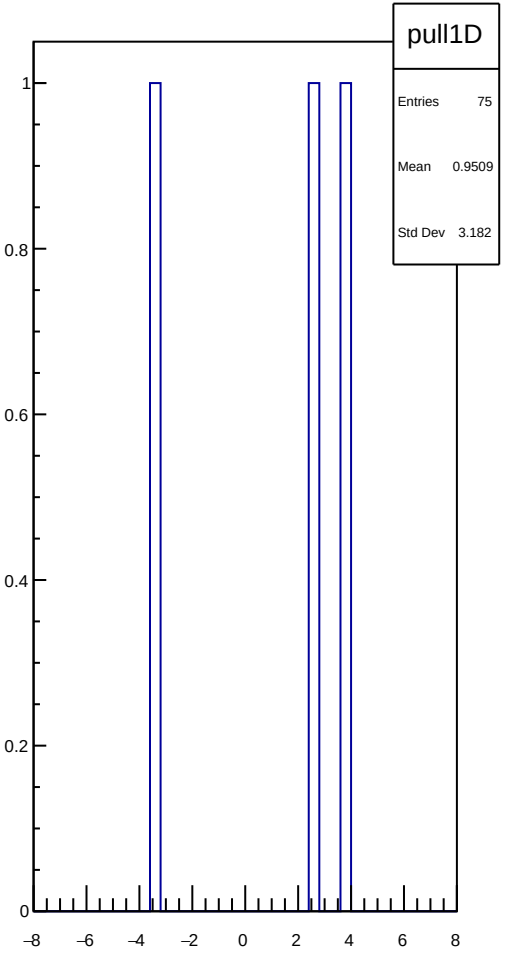

yield_bpm0l09WS_rms vs run
χ² / ndf 1971 / 74
p0 7.381 ± 0.006145
8.4
8.2
8
7.8
7.6
7.4
7.2
7
6.8
6.6

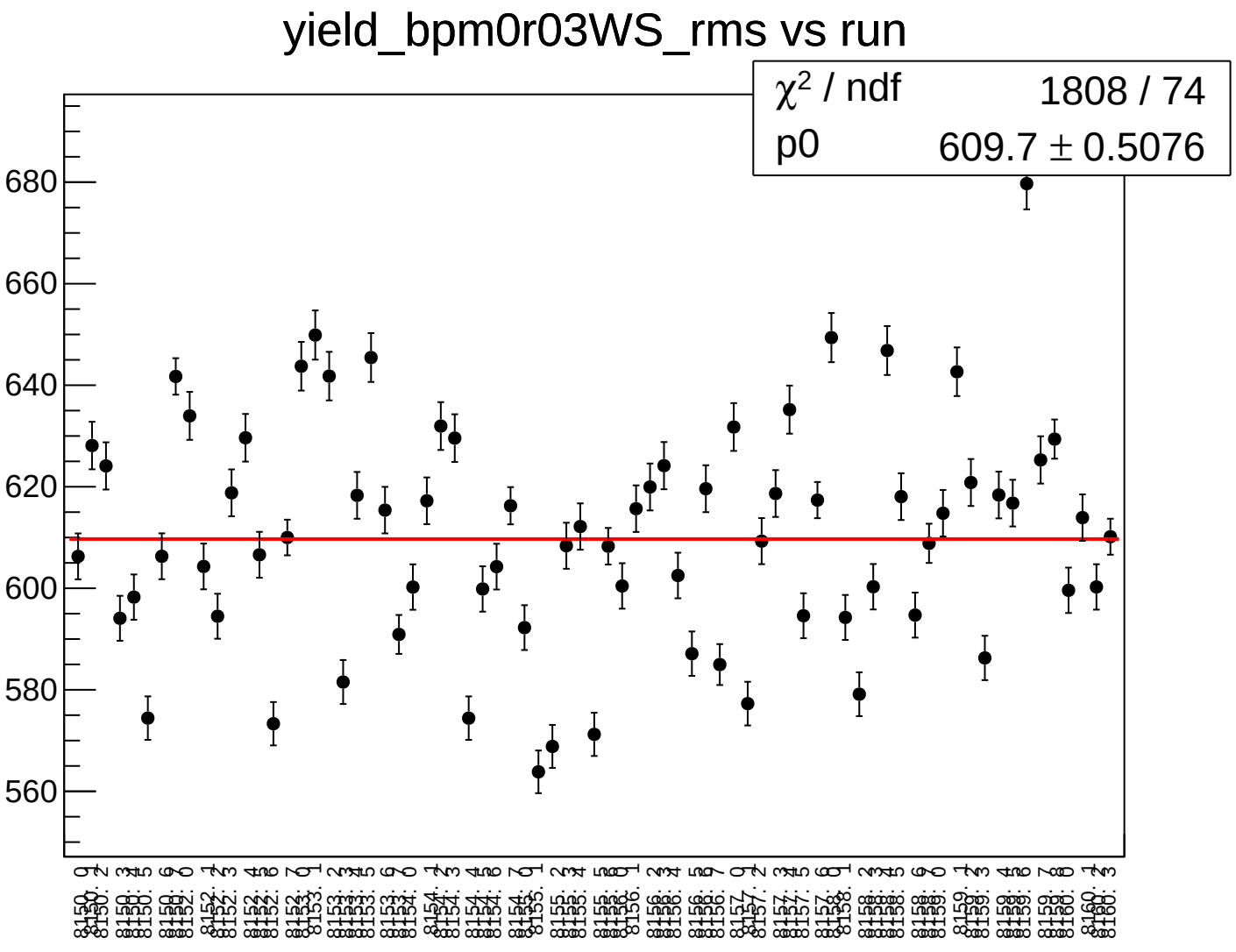

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.048e+05 / 74
p0 1.405e+05 ± 0.5195
140.8
140.7
140.6
140.5
140.4
140.3
140.2
pull
Entries 75
Mean 7678
Std Dev 7638
80
60
40
20
0
−20
−40
−60

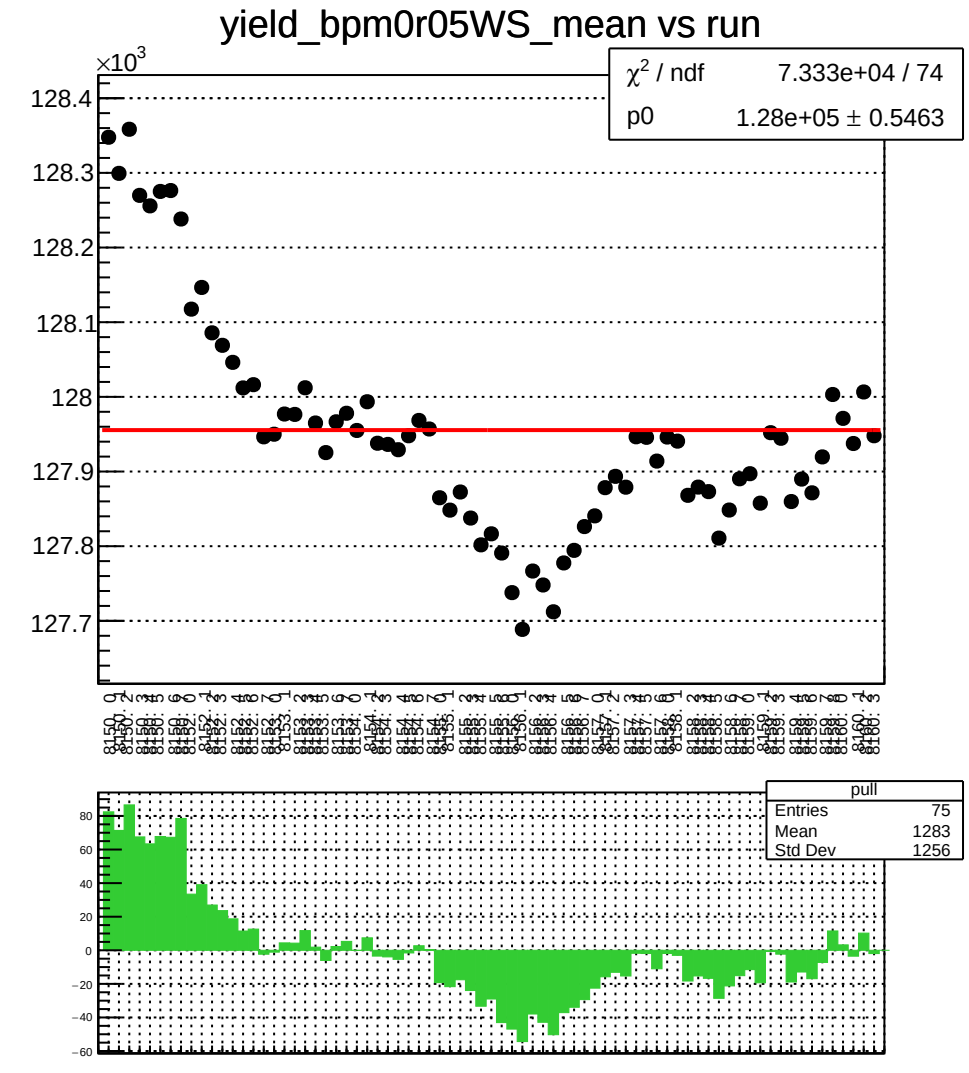

pull1D
Entries 75
Mean 1.89
Std Dev 3.929
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

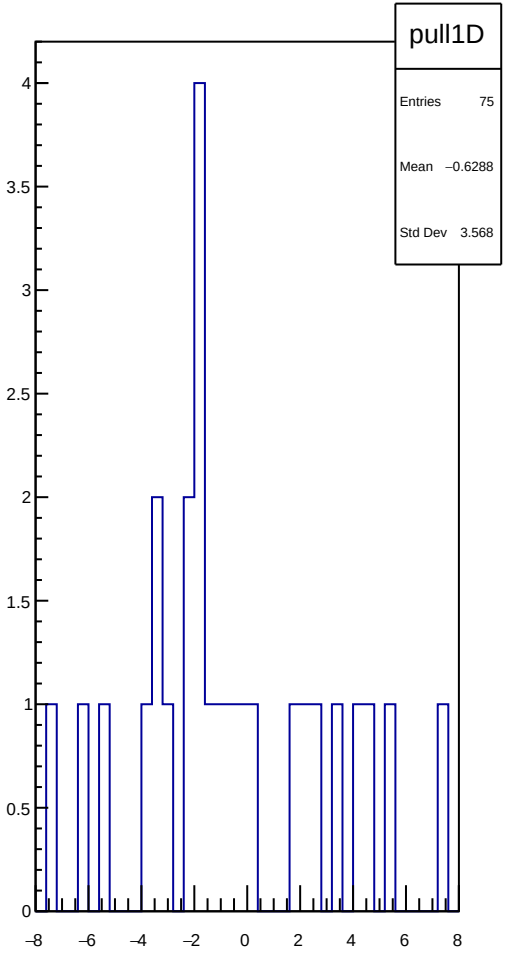

yield_bpm0l10WS_rms vs run
χ² / ndf 2942 / 74
p0 441.1 ± 0.3674
500
480
460
440
420
400

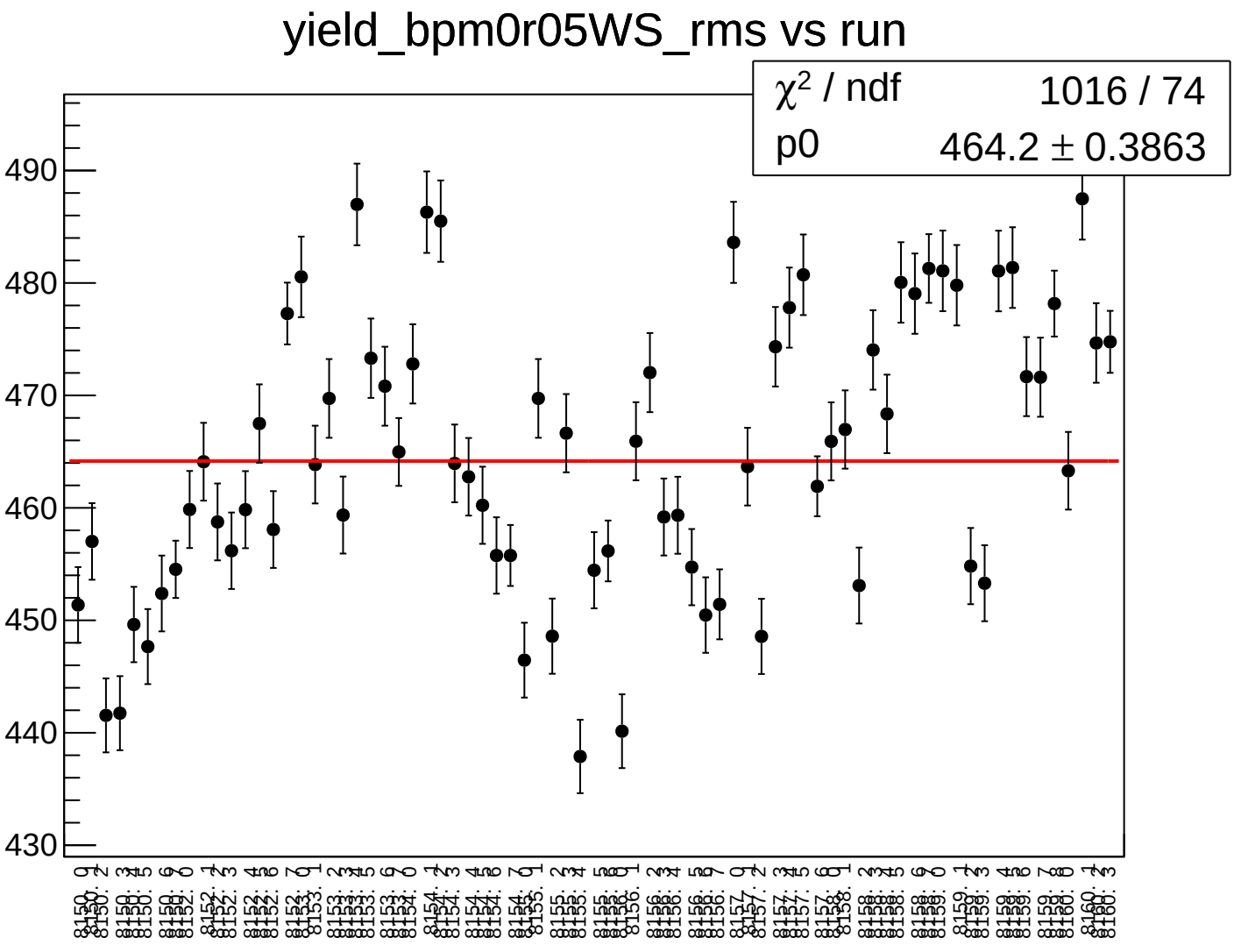

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 5.237e+05 / 74
p0 1.431e+05 ± 0.7178
144.5
144
143.5
143
142.5
pull
Entries 75
Mean −4.878e+04
Std Dev 4.881e+04
200
150
100
50
0
−50
−100

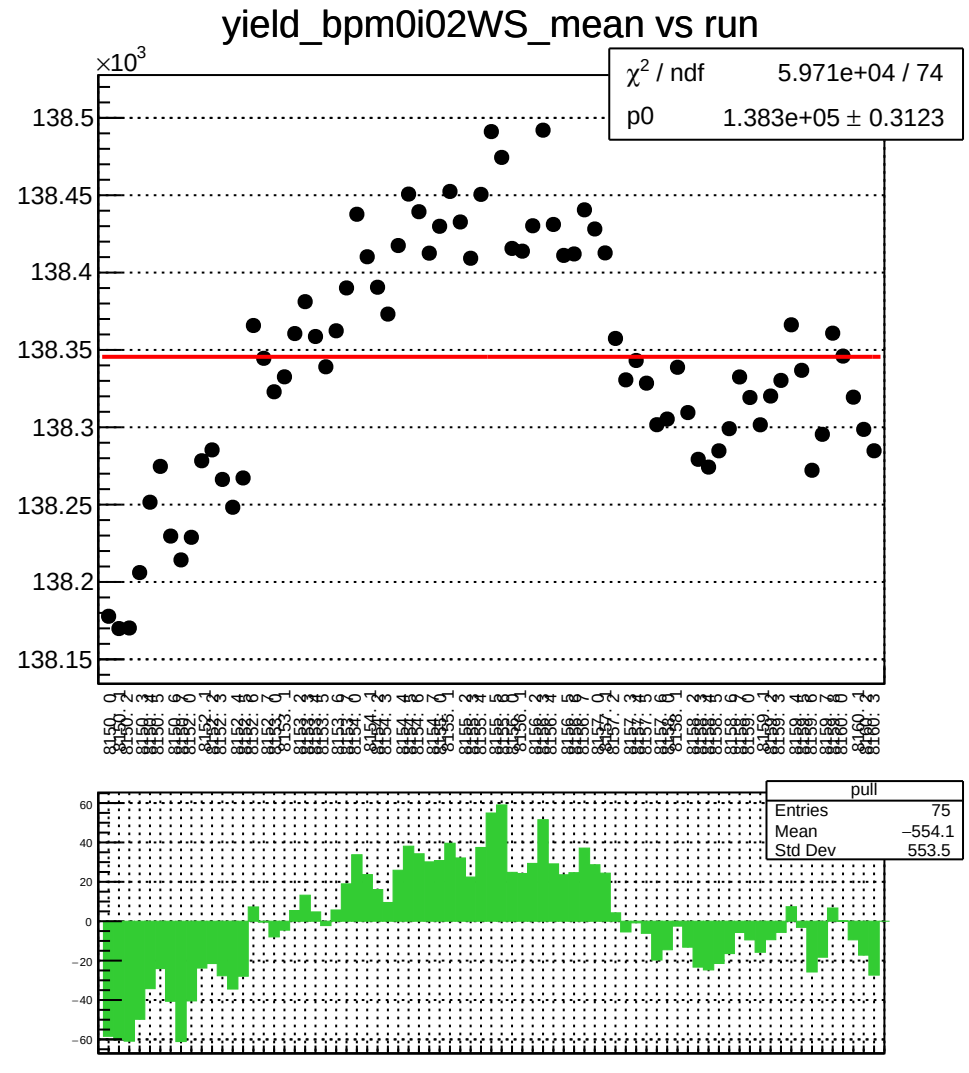

pull1D
Entries 75
Mean 0.9509
Std Dev 3.182
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

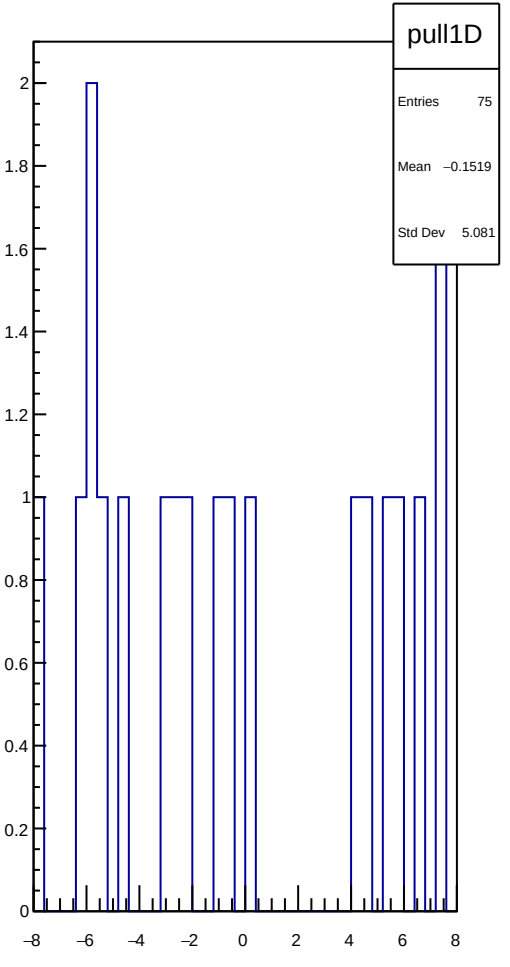

yield_bpm0r03WS_rms vs run
χ² / ndf 1808 / 74
p0 609.7 ± 0.5076
680
660
640
620
600
580
560

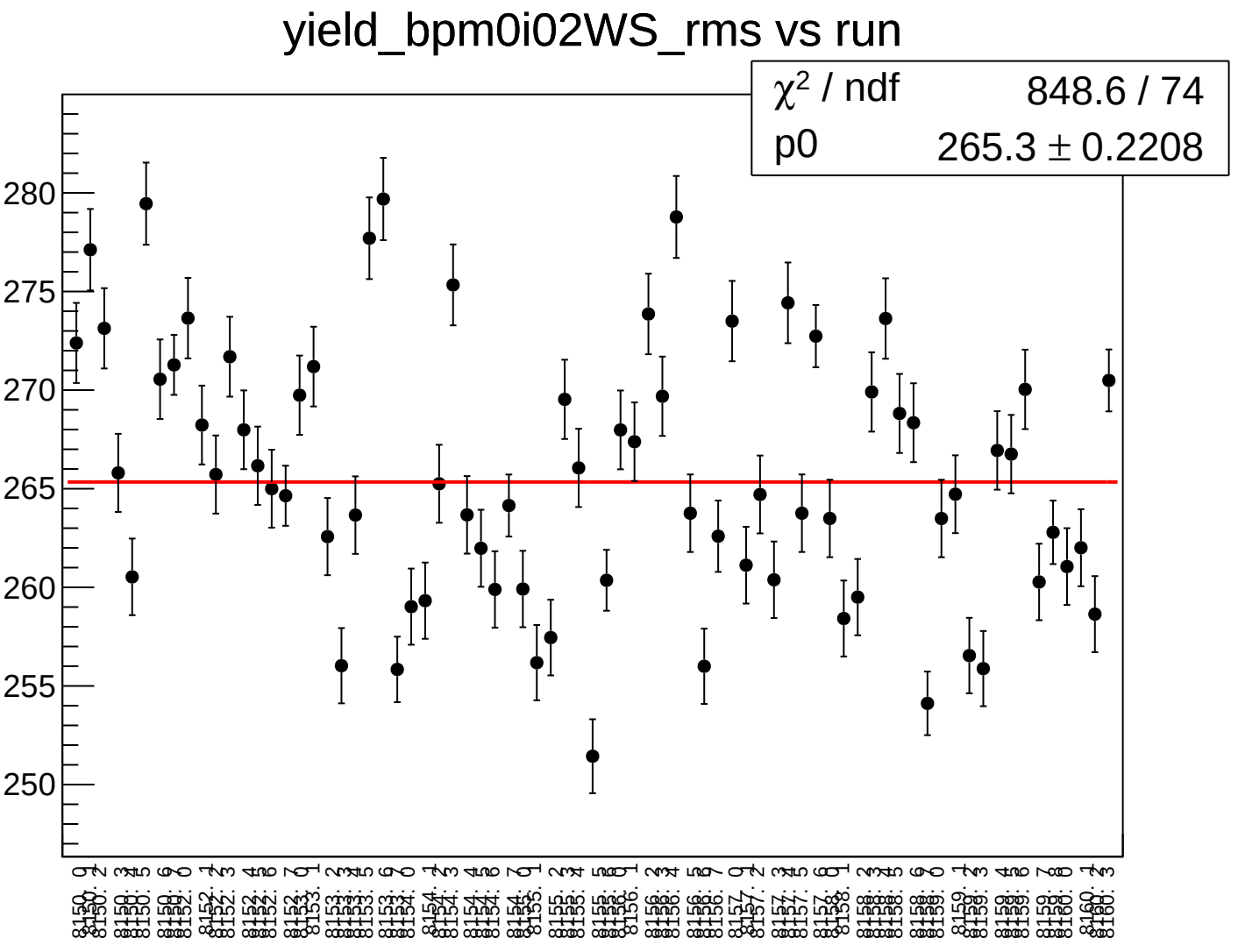

yield_bpm0r05WS_mean vs run
×10^3
χ^2 / ndf 7.333e+04 / 74
p0 1.28e+05 ± 0.5463
128.4
128.3
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 75
Mean 1283
Std Dev 1256
80
60
40
20
0
−20
−40
−60

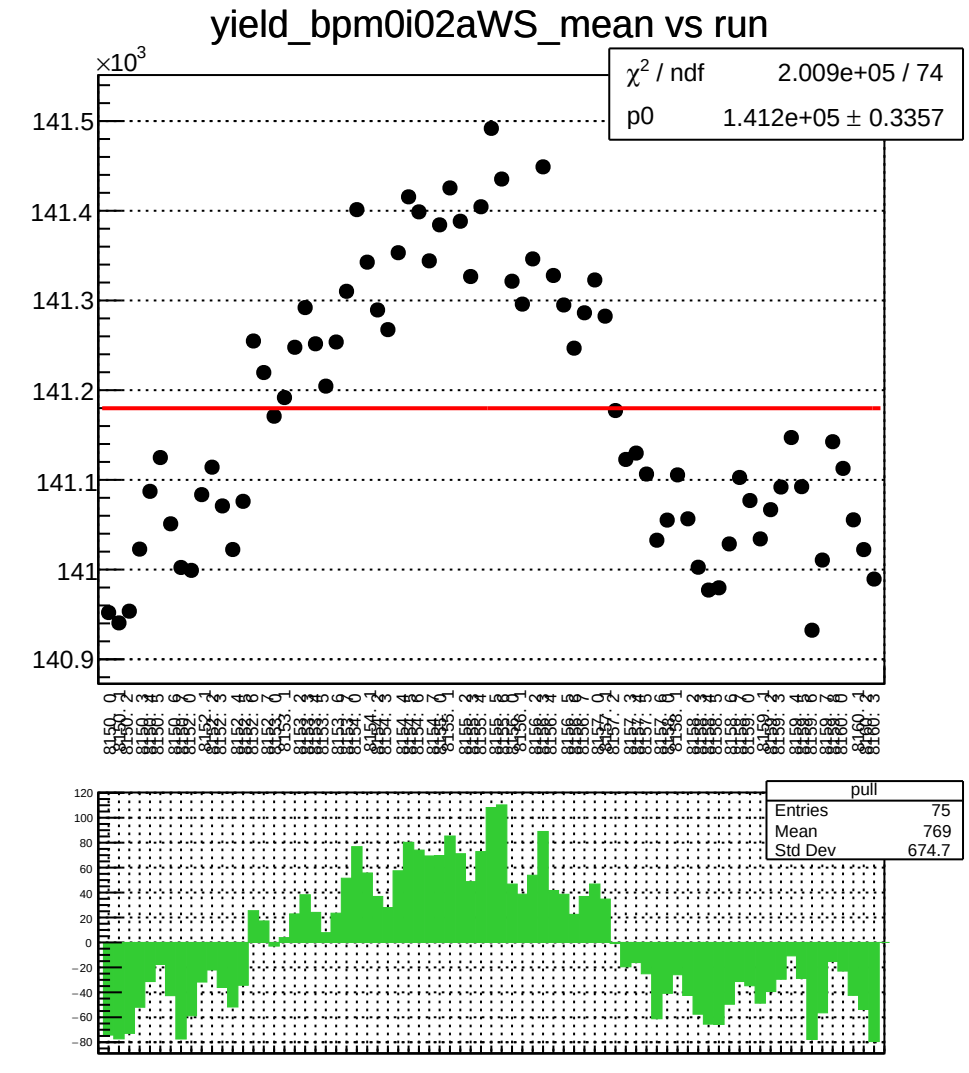

pull1D
Entries 75
Mean −0.6288
Std Dev 3.568
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

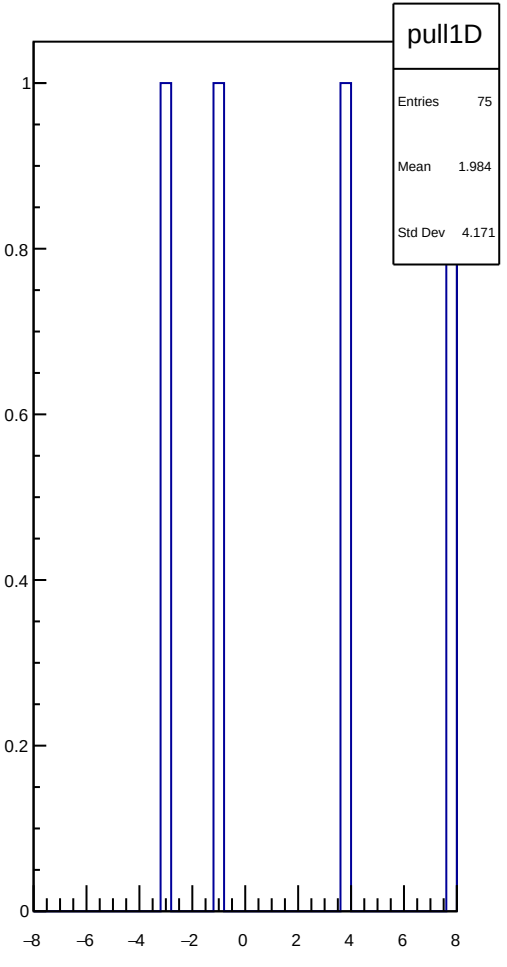

yield_bpm0r05WS_rms vs run
χ² / ndf 1016 / 74
p0 464.2 ± 0.3863
490
480
470
460
450
440
430

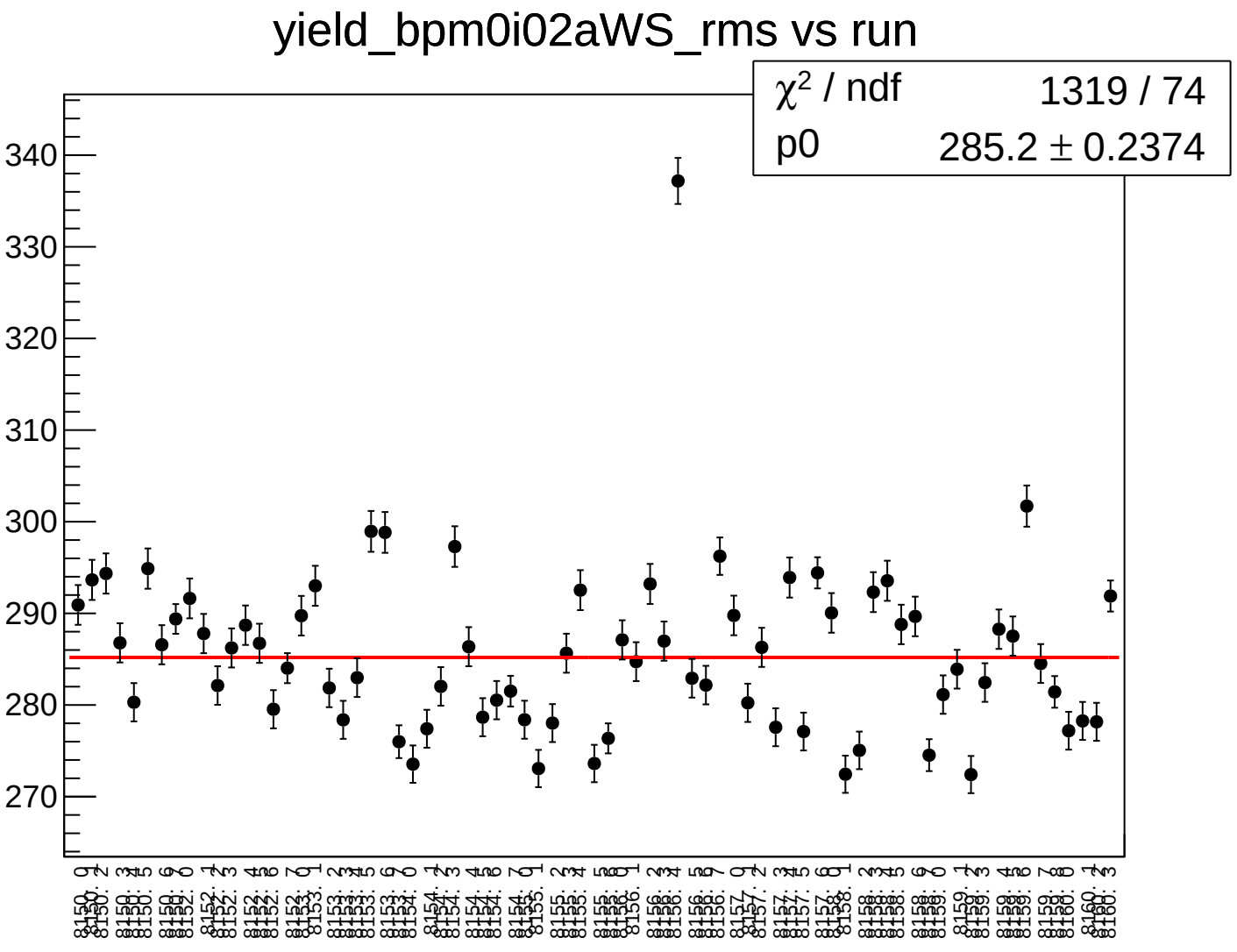

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.971e+04 / 74
p0 1.383e+05 ± 0.3123
138.5
138.45
138.4
138.35
138.3
138.25
138.2
138.15
pull
Entries 75
Mean −554.1
Std Dev 553.5
60
40
20
0
−20
−40
−60

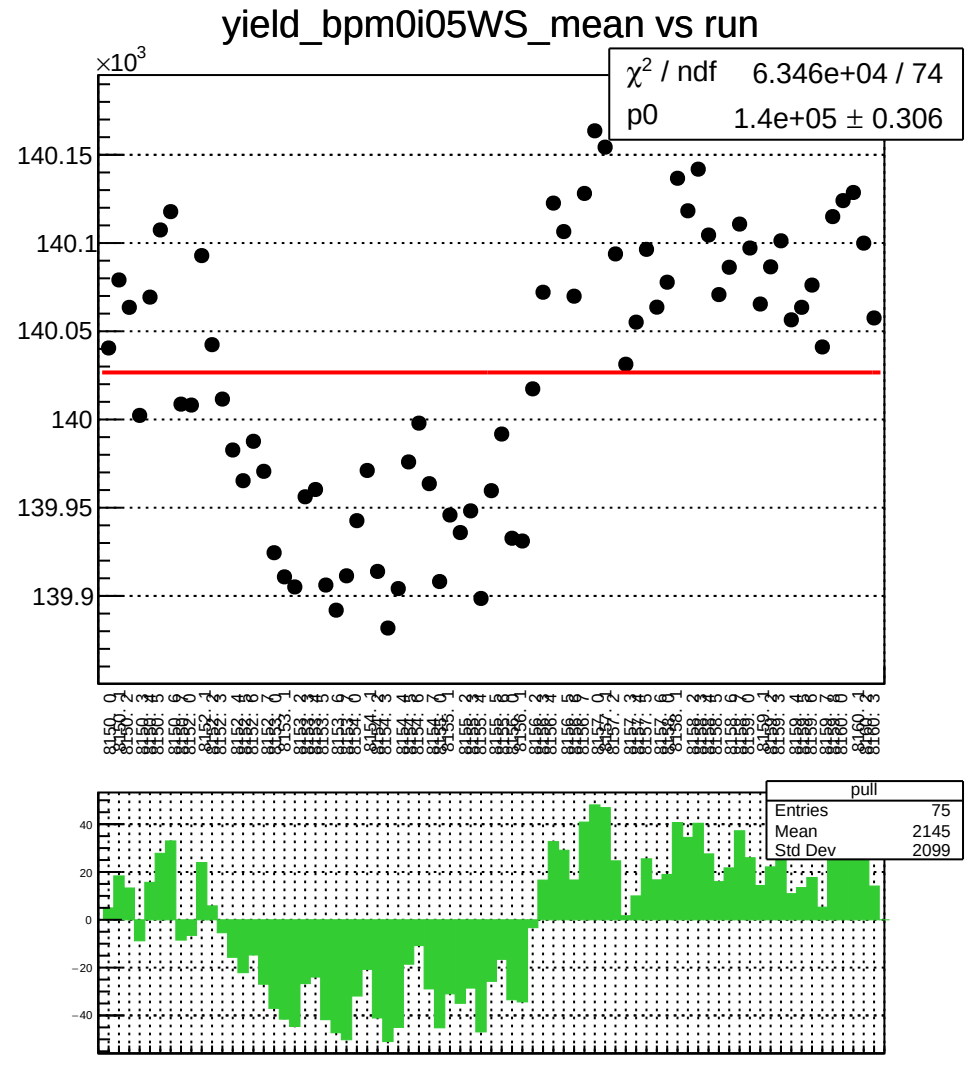

pull1D
Entries 75
Mean −0.1519
Std Dev 5.081
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

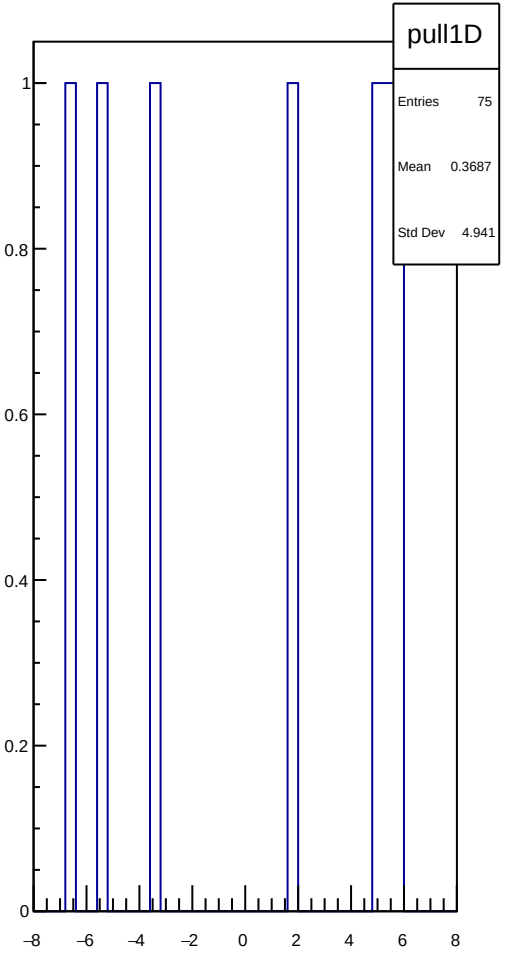

yield_bpm0i02WS_rms vs run
χ² / ndf 848.6 / 74
p0 265.3 ± 0.2208
280
275
270
265
260
255
250

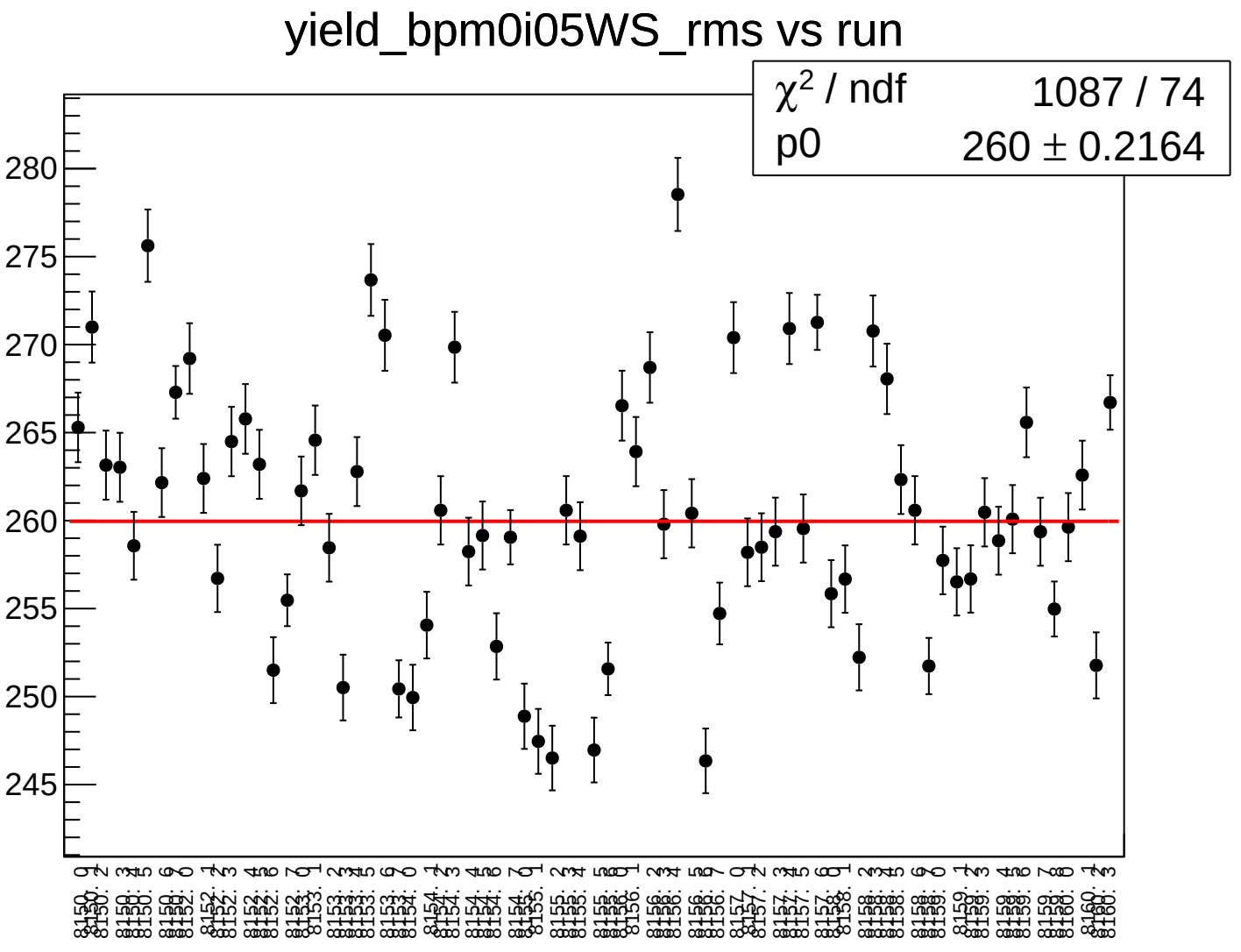

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.009e+05 / 74
p0 1.412e+05 ± 0.3357
141.5
141.4
141.3
141.2
141.1
141
140.9
pull
Entries 75
Mean 769
Std Dev 674.7
120
100
80
60
40
20
0
−20
−40
−60
−80

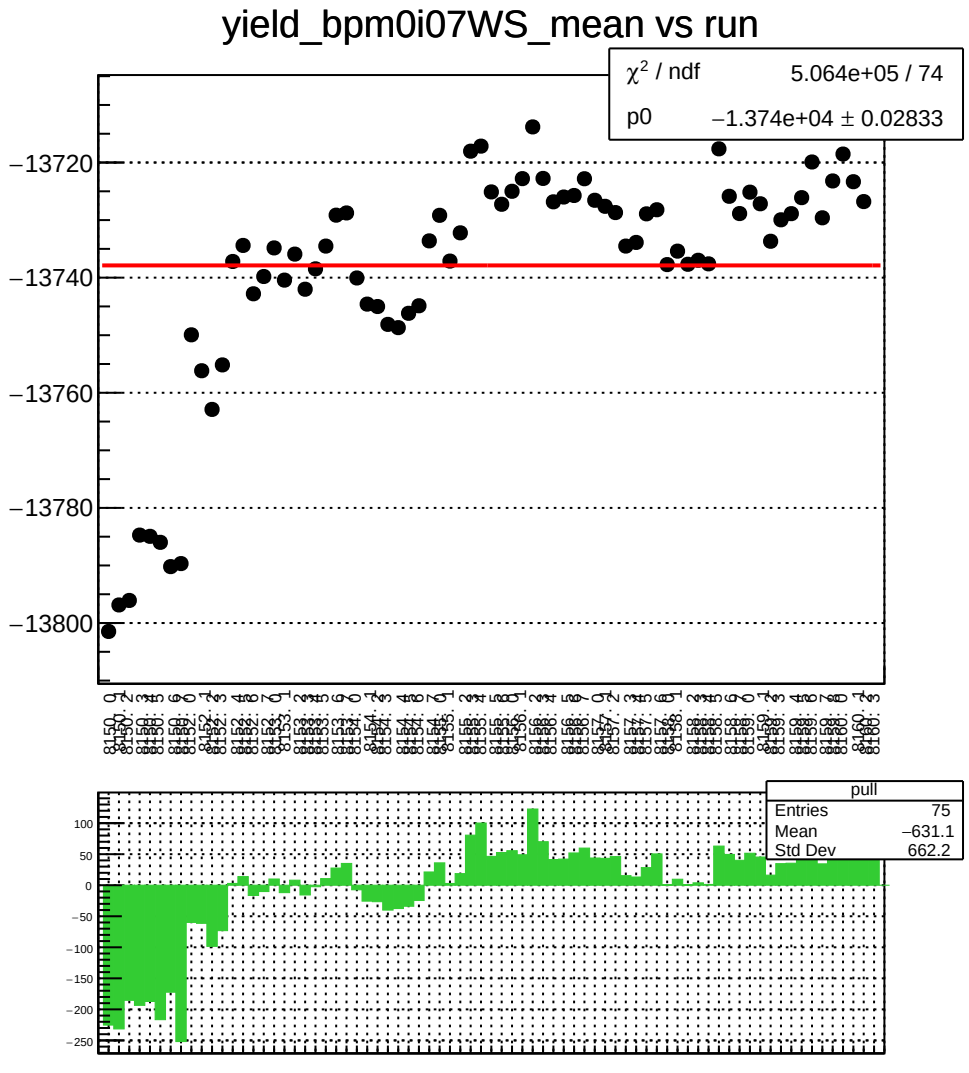

pull1D
Entries 75
Mean 1.984
Std Dev 4.171
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

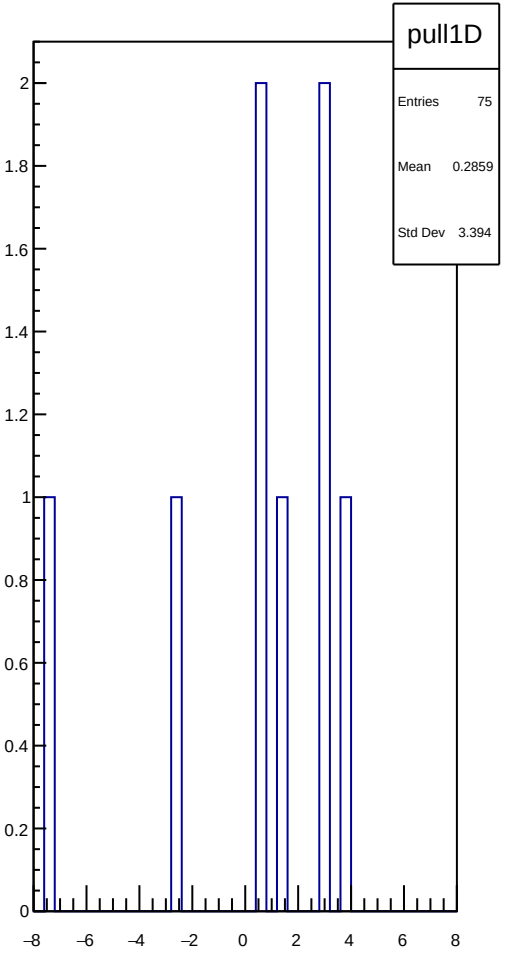

yield_bpm0i02aWS_rms vs run
χ² / ndf 1319 / 74
p0 285.2 ± 0.2374
340
330
320
310
300
290
280
270

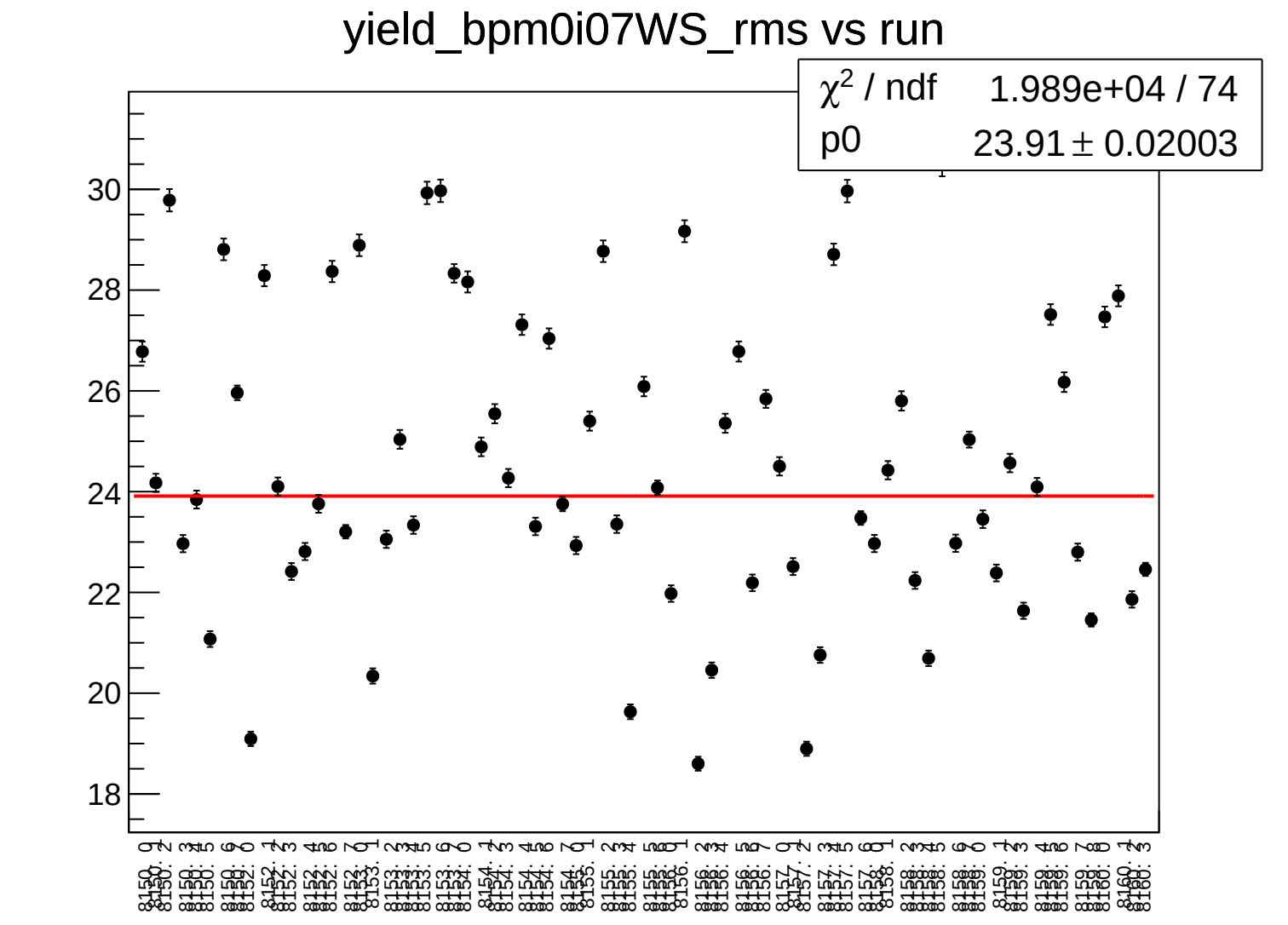

yield_bpm0i05WS_mean vs run
χ² / ndf 6.346e+04 / 74
p0 1.4e+05 ± 0.306
×10³
140.15
140.1
140.05
140
139.95
139.9
pull
Entries 75
Mean 2145
Std Dev 2099
40
20
0
−20
−40

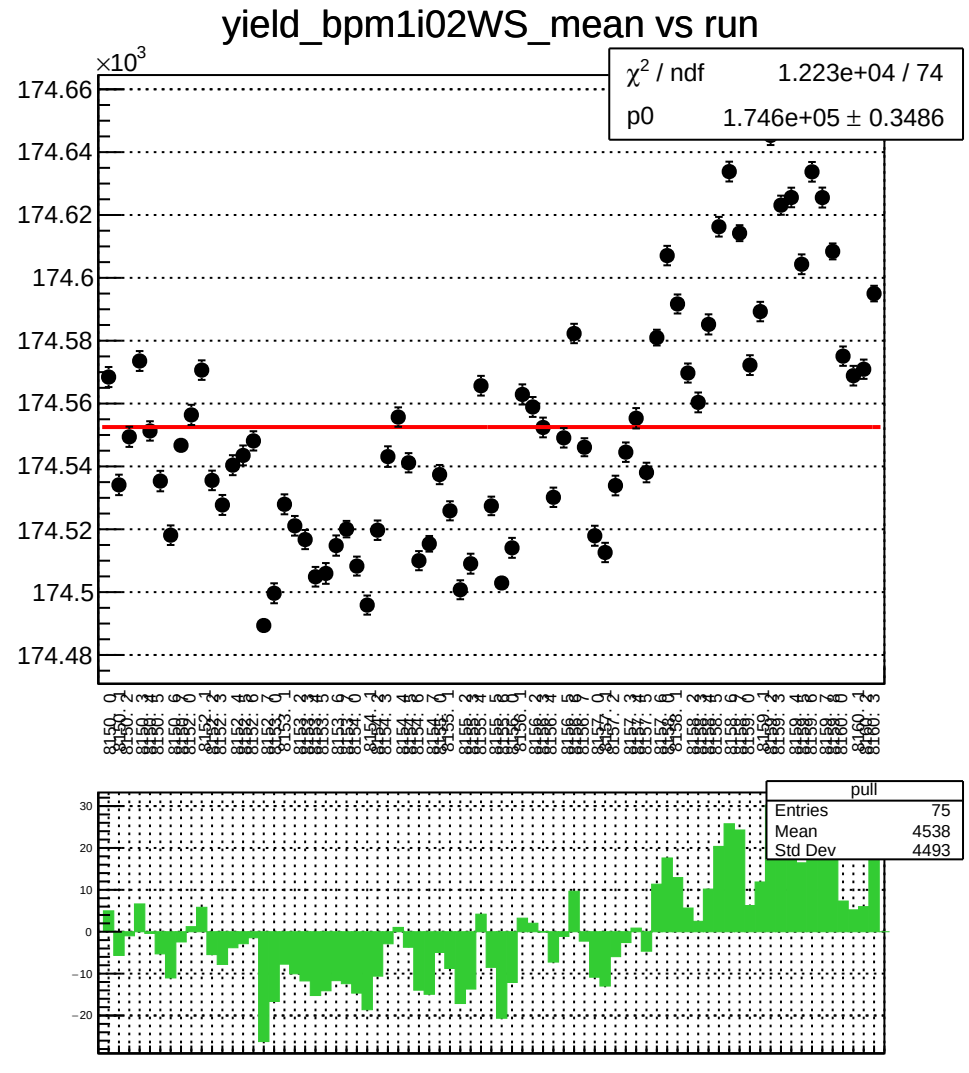

pull1D
Entries 75
Mean 0.3687
Std Dev 4.941
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

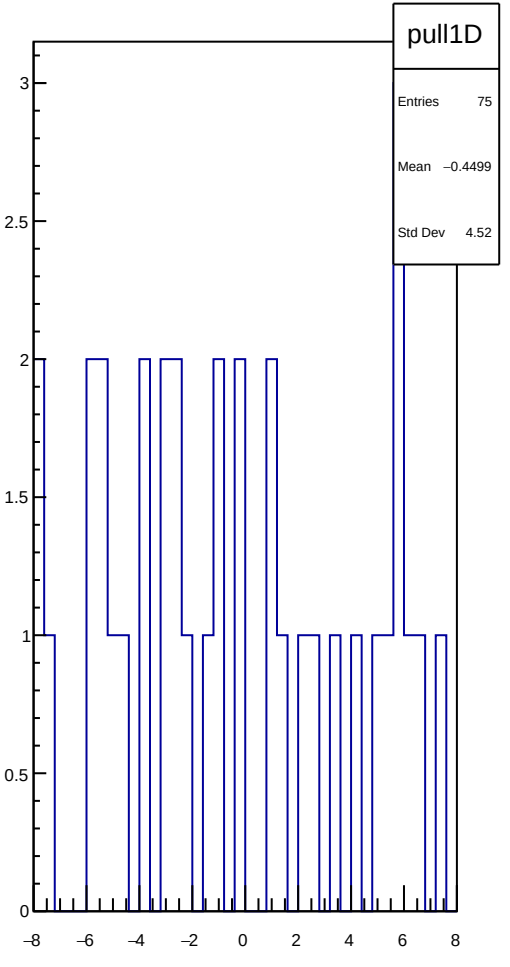

yield_bpm0i05WS_rms vs run
χ² / ndf 1087 / 74
p0 260 ± 0.2164
280
275
270
265
260
255
250
245

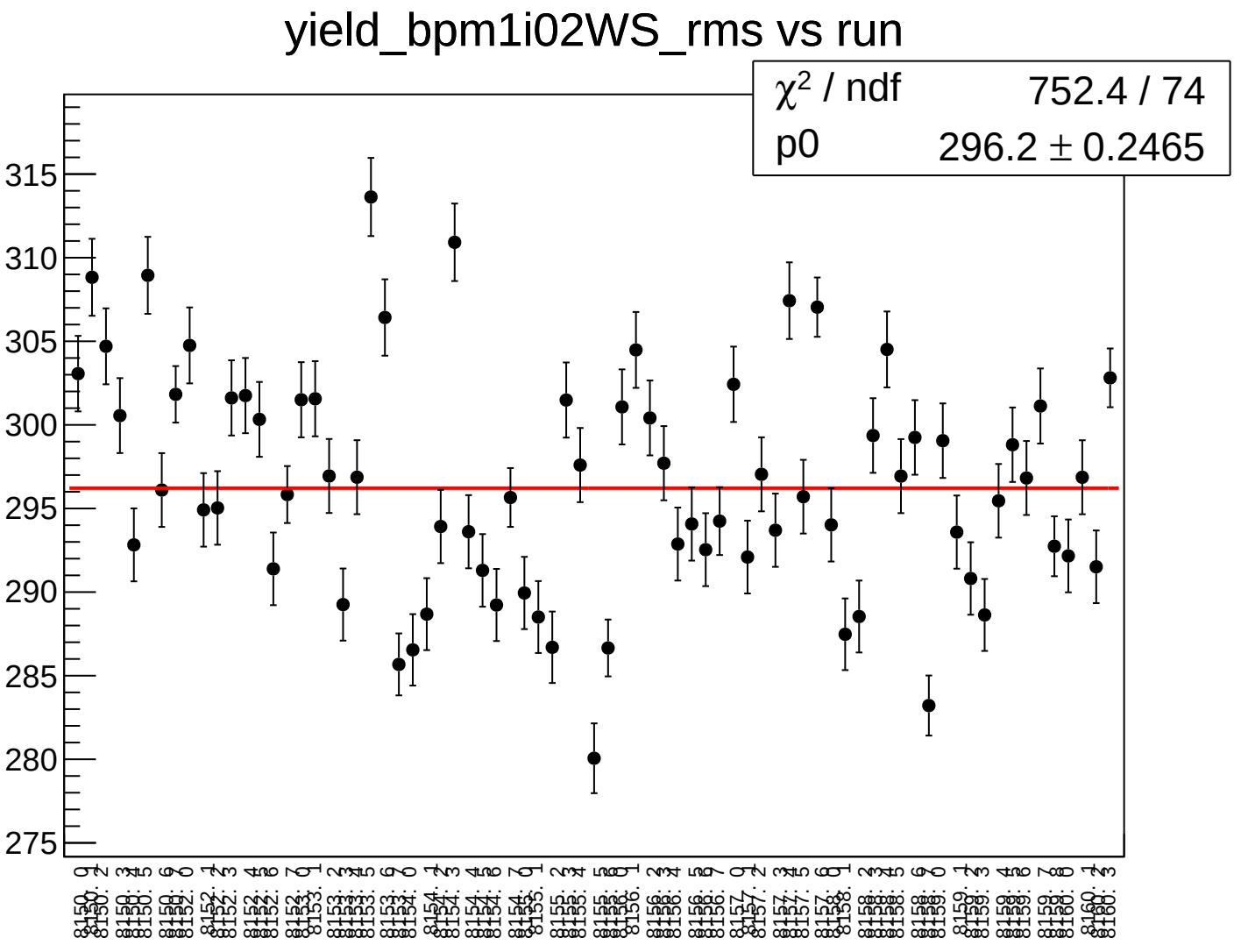

yield_bpm0i07WS_mean vs run
χ² / ndf 5.064e+05 / 74
p0 −1.374e+04 ± 0.02833
−13720
−13740
−13760
−13780
−13800
pull
Entries 75
Mean −631.1
Std Dev 662.2
100
50
0
−50
−100
−150
−200
−250

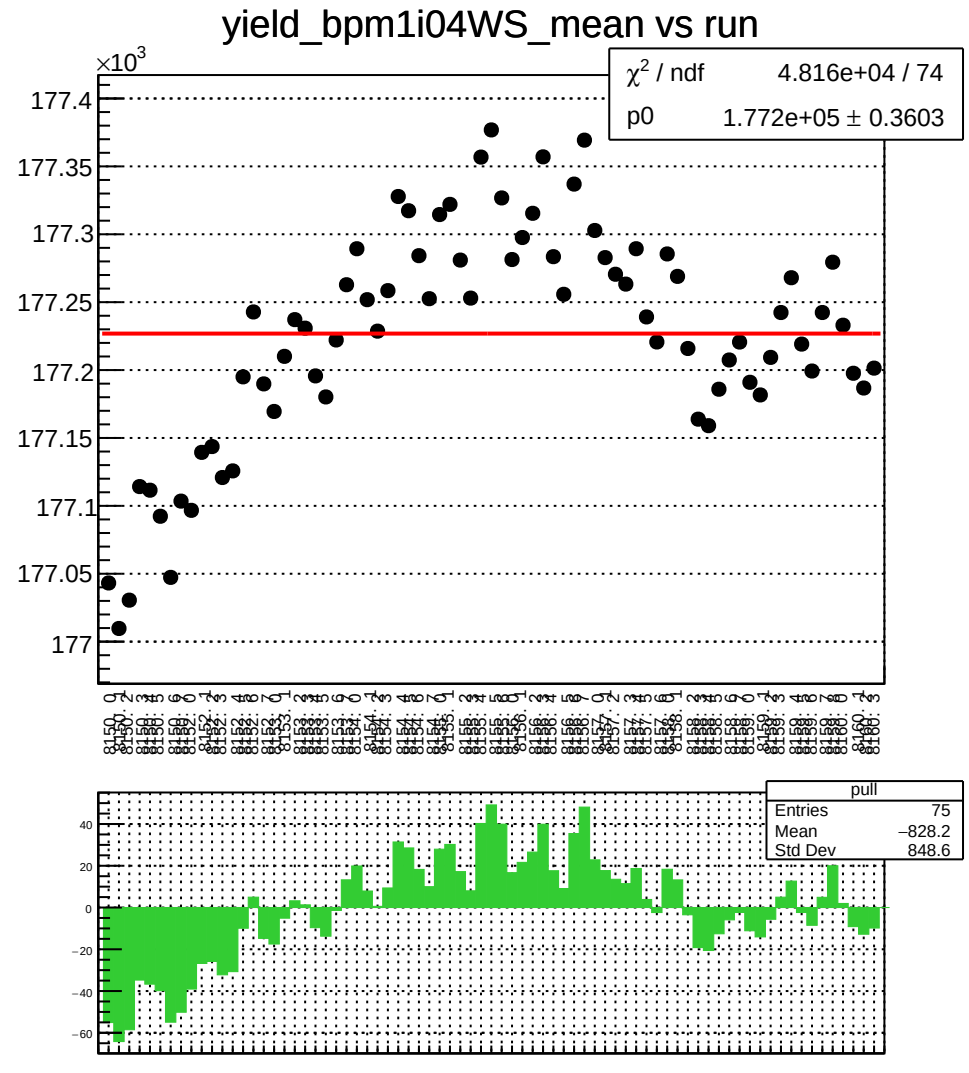

pull1D
Entries 75
Mean 0.2859
Std Dev 3.394
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

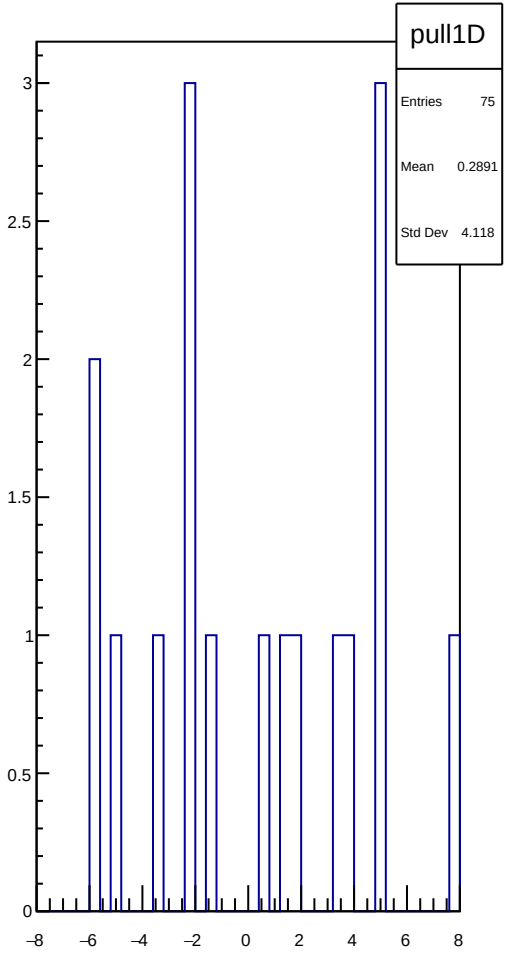

yield_bpm0i07WS_rms vs run
χ^2 / ndf 1.989e+04 / 74
p0 23.91 ± 0.02003
30
28
26
24
22
20
18

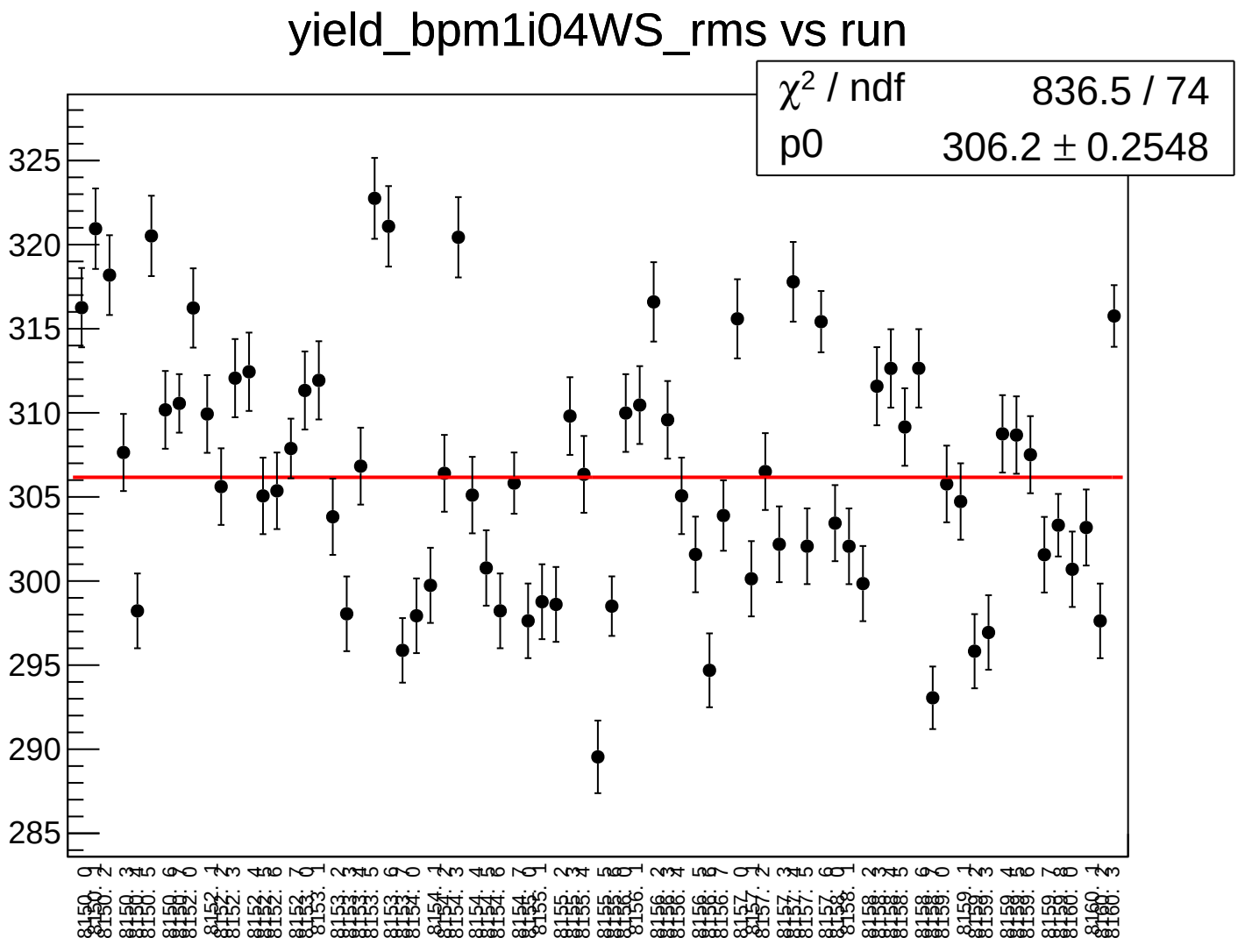

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 1.223e+04 / 74
p0 1.746e+05 ± 0.3486
174.66
174.64
174.62
174.6
174.58
174.56
174.54
174.52
174.5
174.48
pull
Entries 75
Mean 4538
Std Dev 4493
30
20
10
0
−10
−20

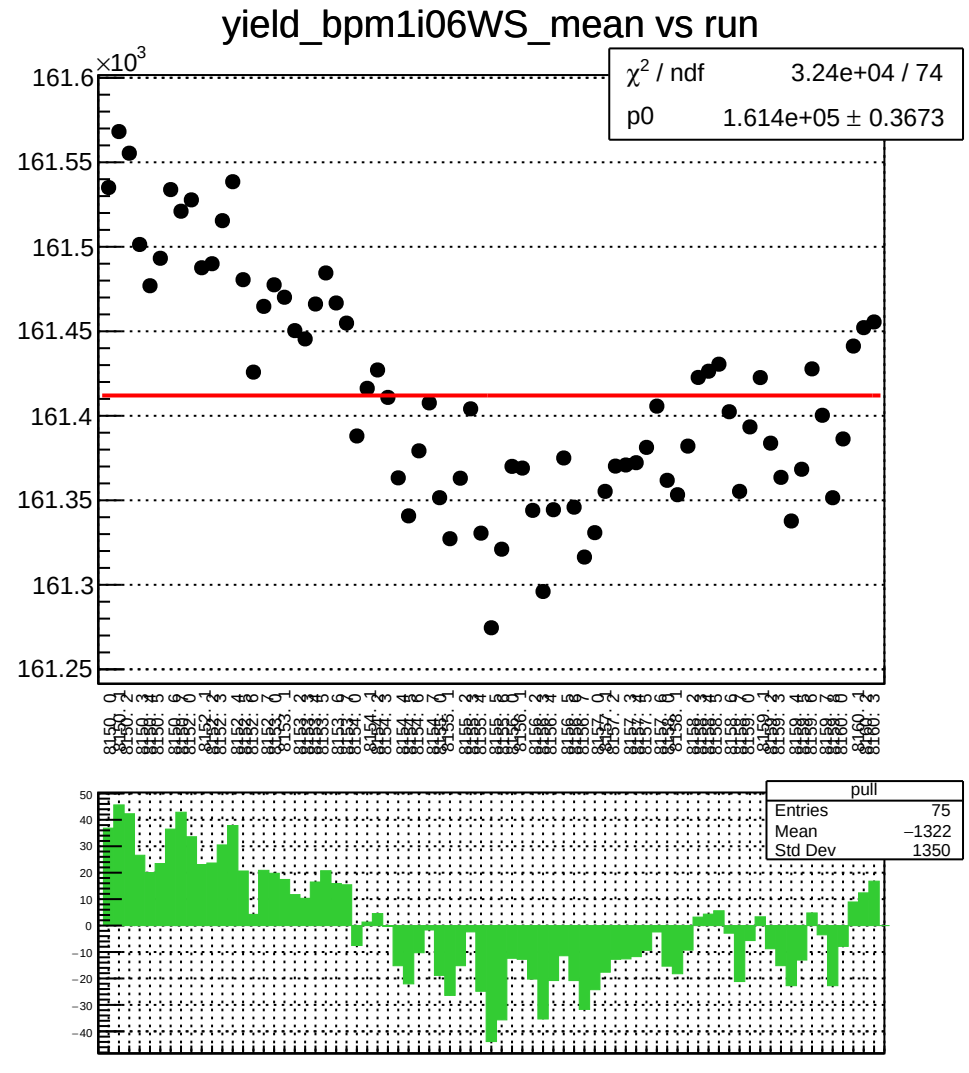

pull1D
Entries 75
Mean −0.4499
Std Dev 4.52
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

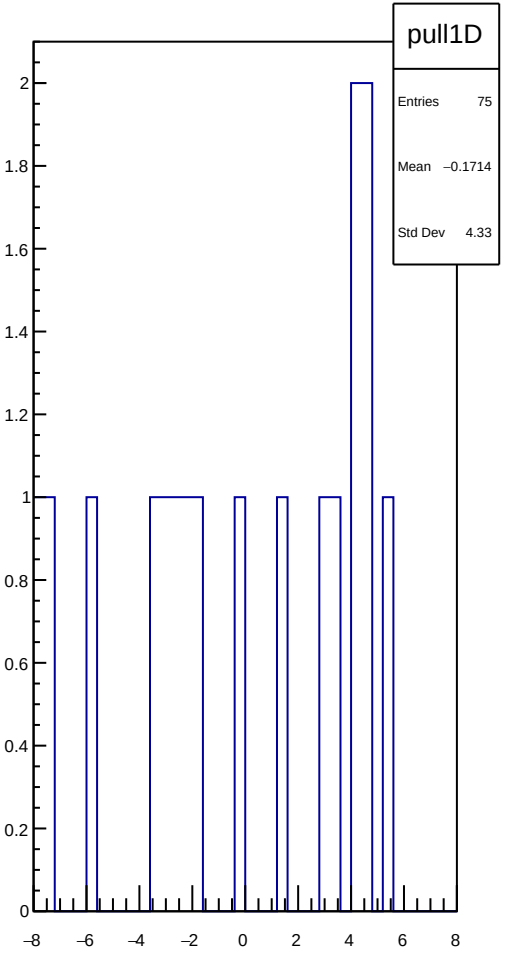

yield_bpm1i02WS_rms vs run
χ² / ndf 752.4 / 74
p0 296.2 ± 0.2465
315
310
305
300
295
290
285
280
275

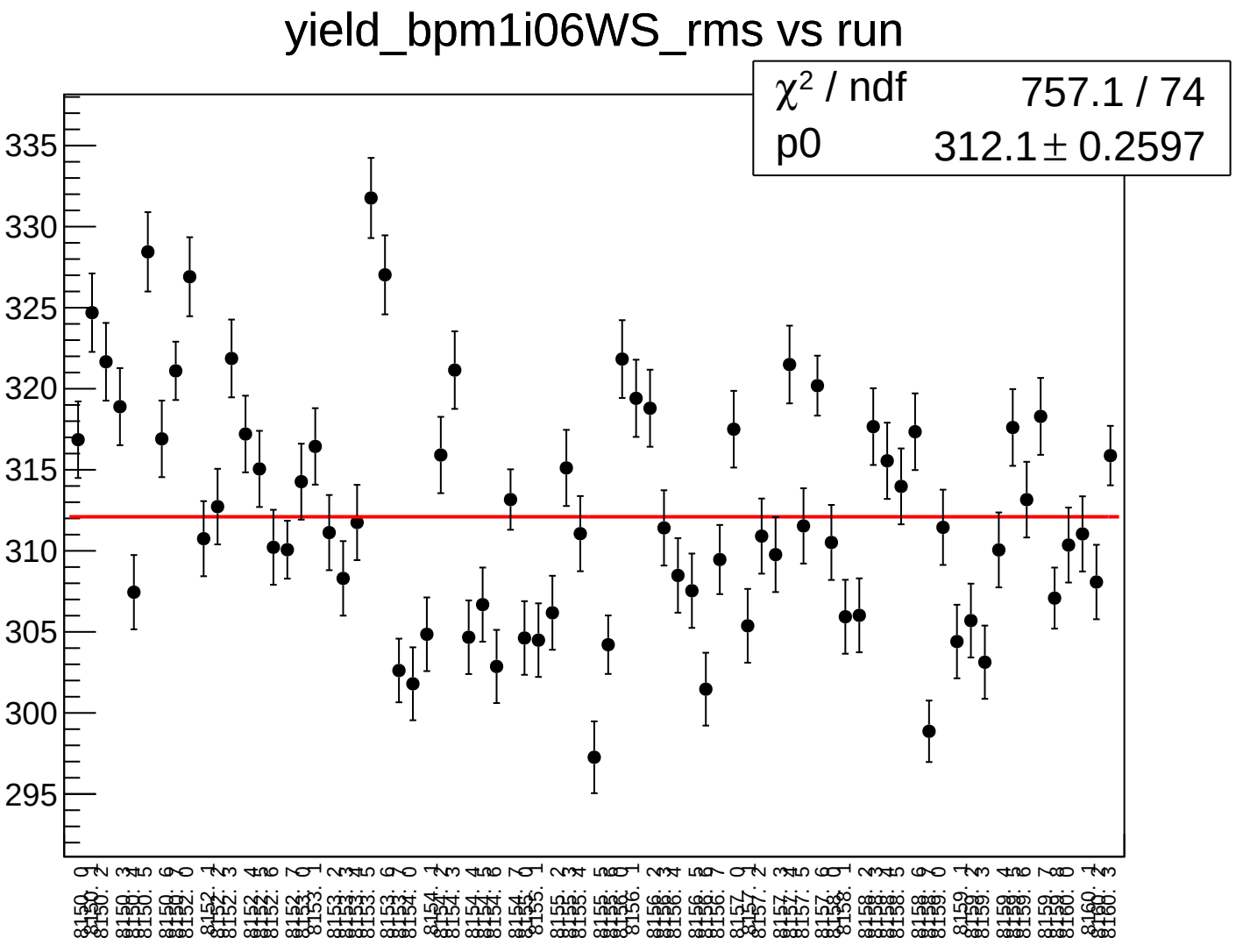

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 4.816e+04 / 74
p0 1.772e+05 ± 0.3603
177.4
177.35
177.3
177.25
177.2
177.15
177.1
177.05
177
pull
Entries 75
Mean −828.2
Std Dev 848.6
40
20
0
−20
−40
−60

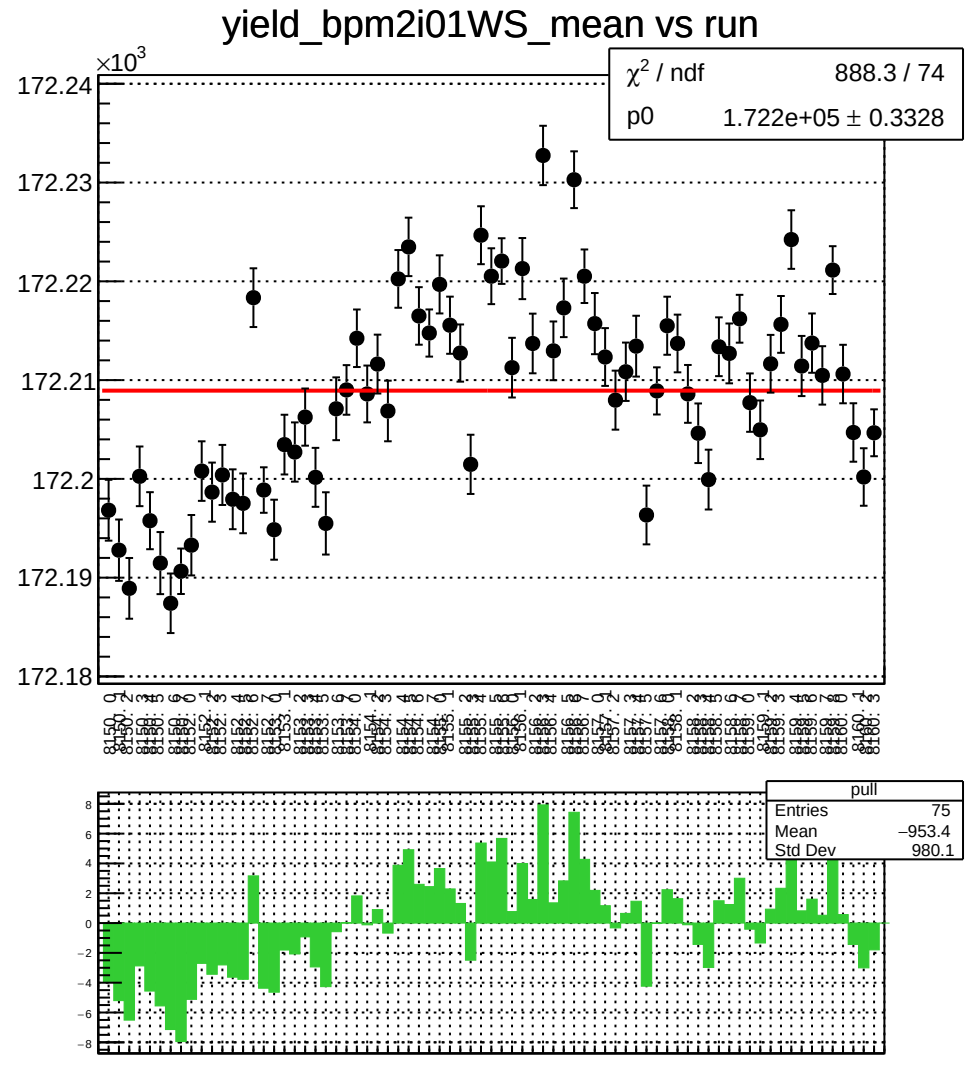

pull1D
Entries 75
Mean 0.2891
Std Dev 4.118
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

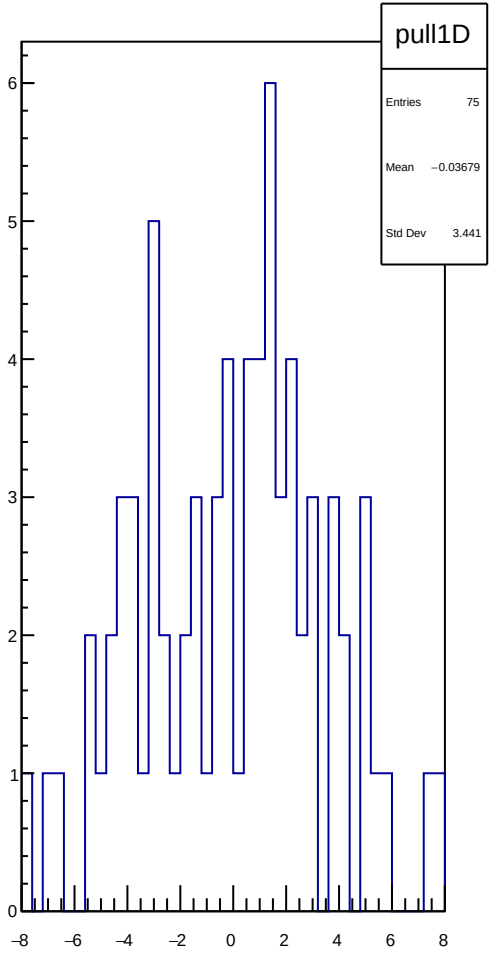

yield_bpm1i04WS_rms vs run
χ² / ndf 836.5 / 74
p0 306.2 ± 0.2548
325
320
315
310
305
300
295
290
285

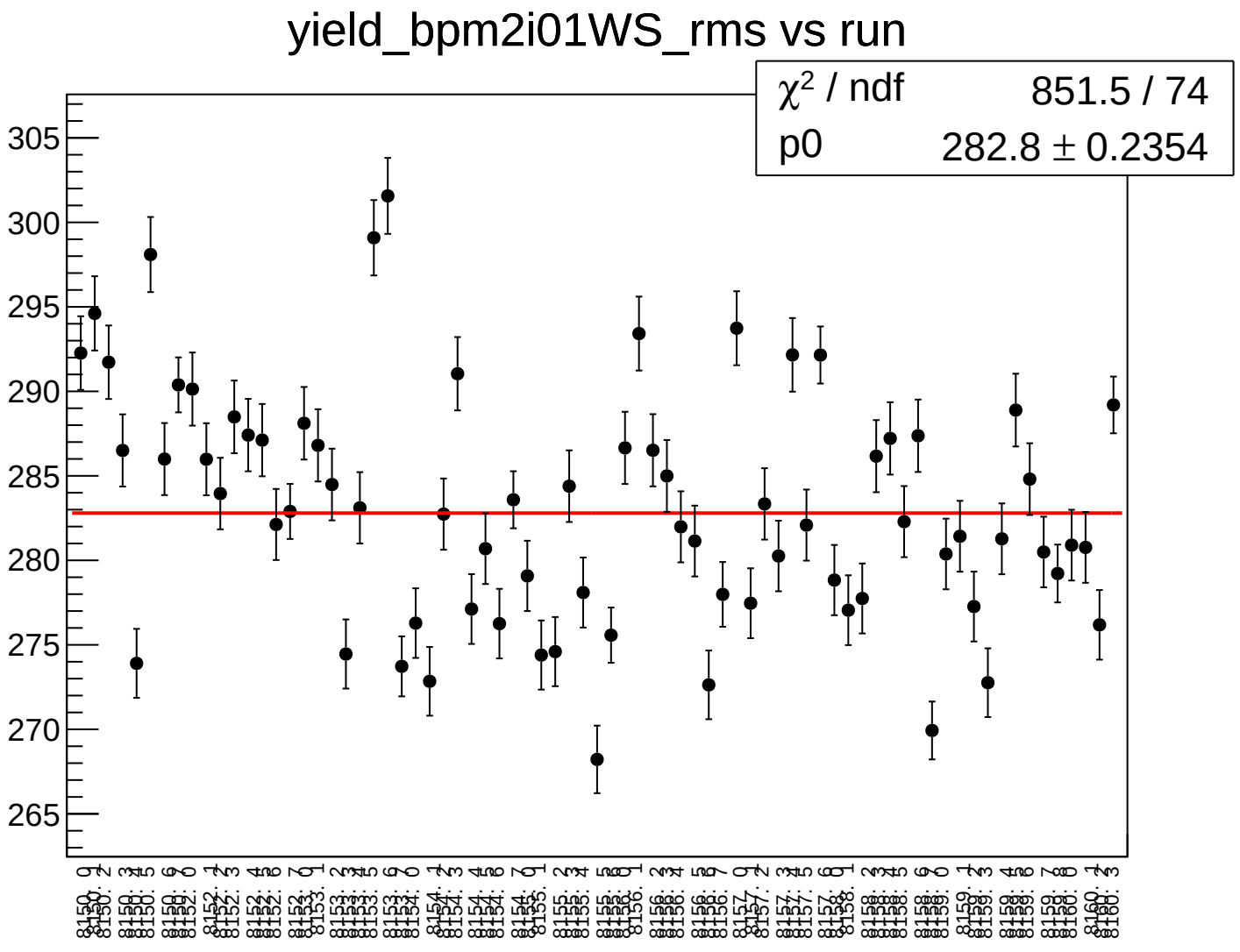

yield_bpm1i06WS_mean vs run
χ² / ndf 3.24e+04 / 74
p0 1.614e+05 ± 0.3673
×10³
161.6
161.55
161.5
161.45
161.4
161.35
161.3
161.25
pull
Entries 75
Mean −1322
Std Dev 1350
50
40
30
20
10
0
−10
−20
−30
−40

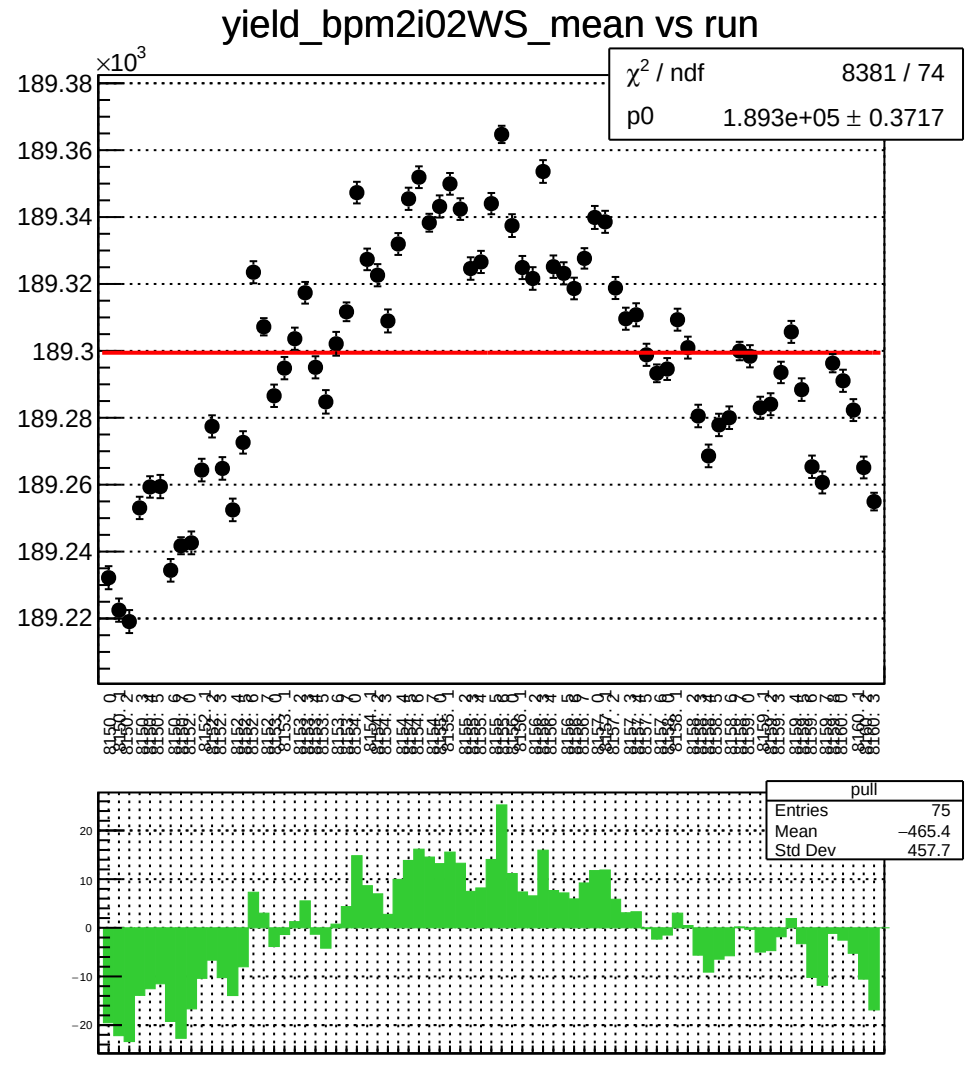

pull1D
Entries 75
Mean −0.1714
Std Dev 4.33
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

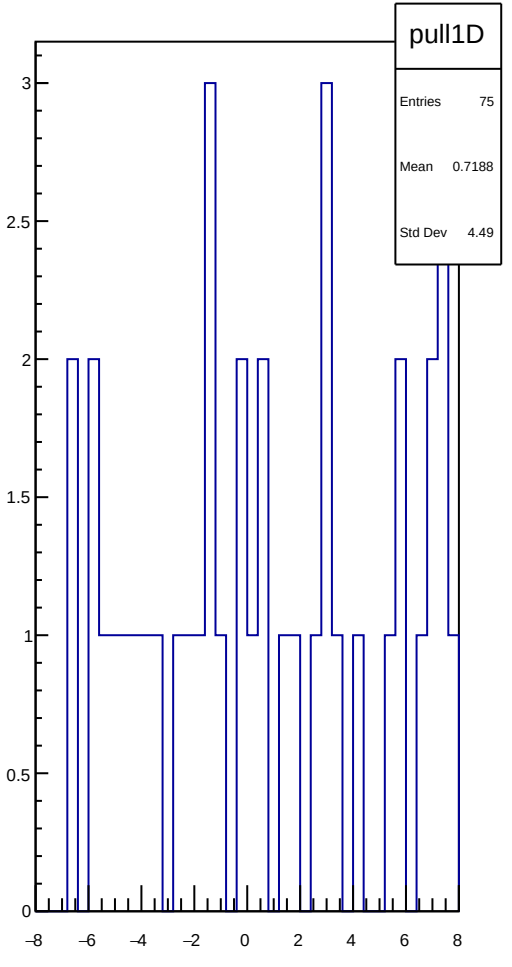

yield_bpm1i06WS_rms vs run
χ² / ndf 757.1 / 74
p0 312.1 ± 0.2597
335
330
325
320
315
310
305
300
295

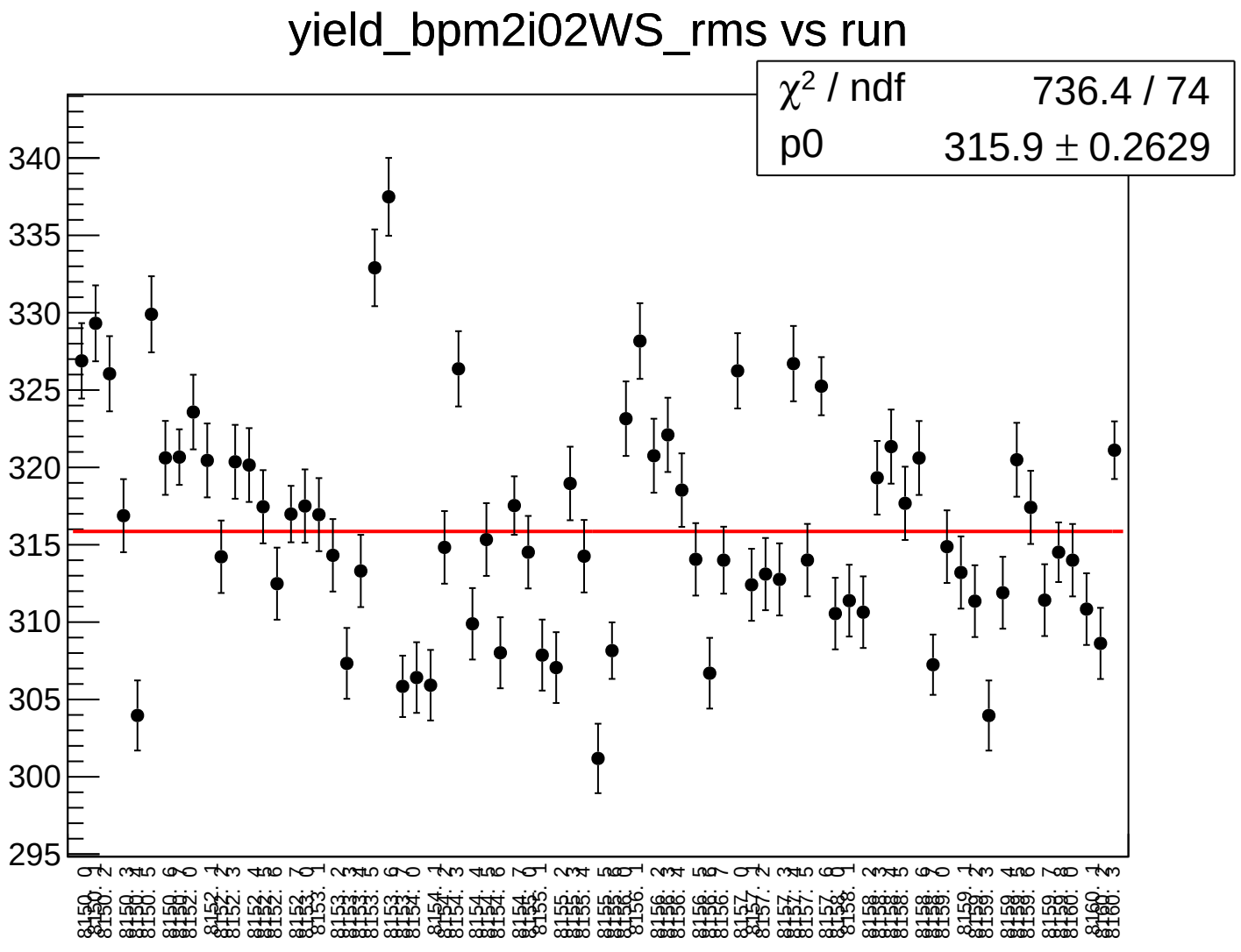

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 888.3 / 74
p0 1.722e+05 ± 0.3328
172.24
172.23
172.22
172.21
172.2
172.19
172.18
pull
Entries 75
Mean −953.4
Std Dev 980.1

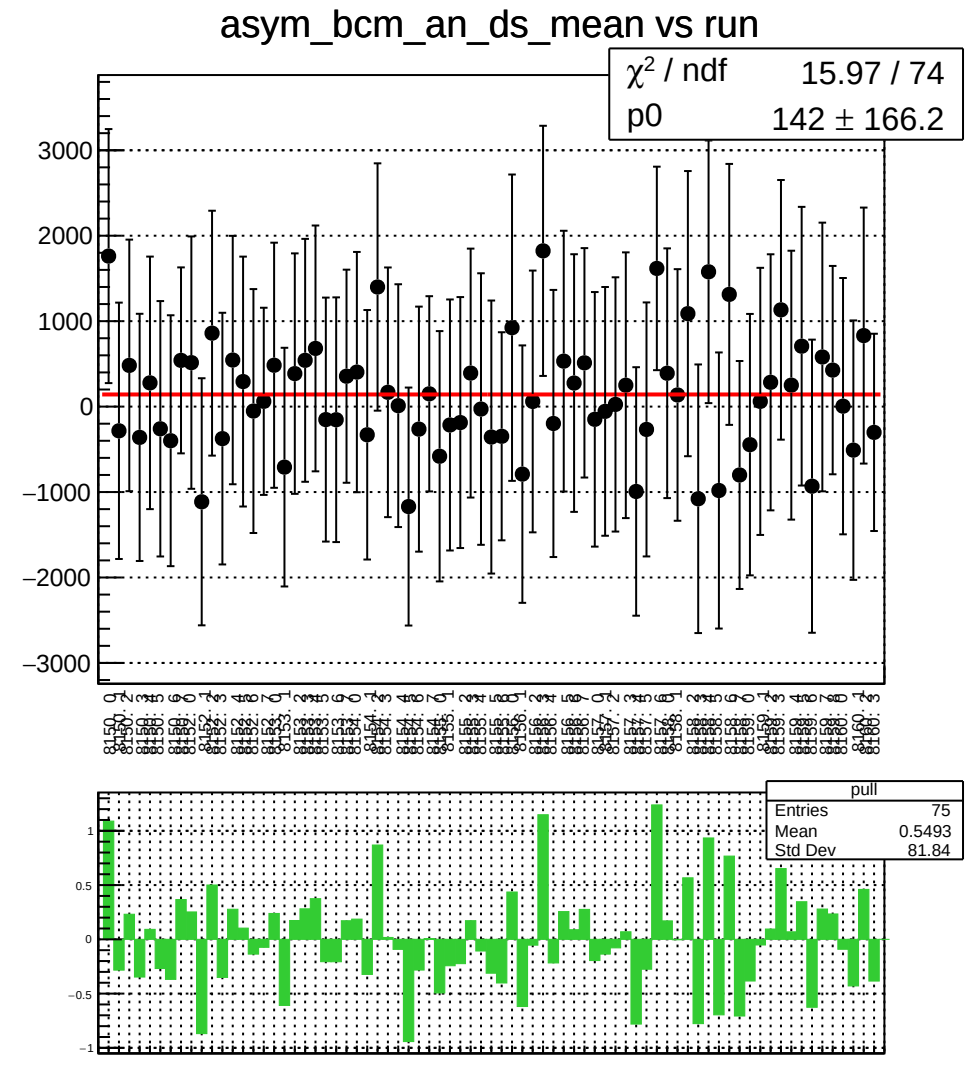

pull1D
Entries 75
Mean −0.03679
Std Dev 3.441

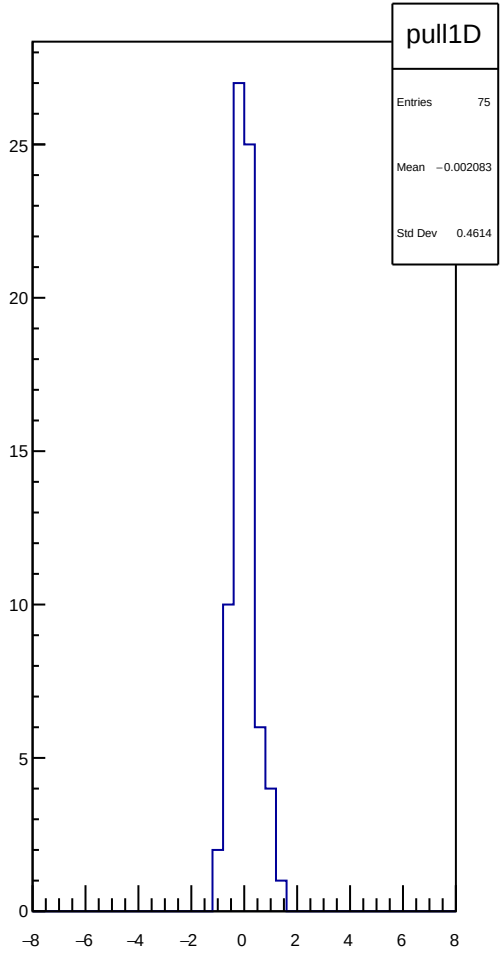

yield_bpm2i01WS_rms vs run
χ² / ndf 851.5 / 74
p0 282.8 ± 0.2354
305
300
295
290
285
280
275
270
265

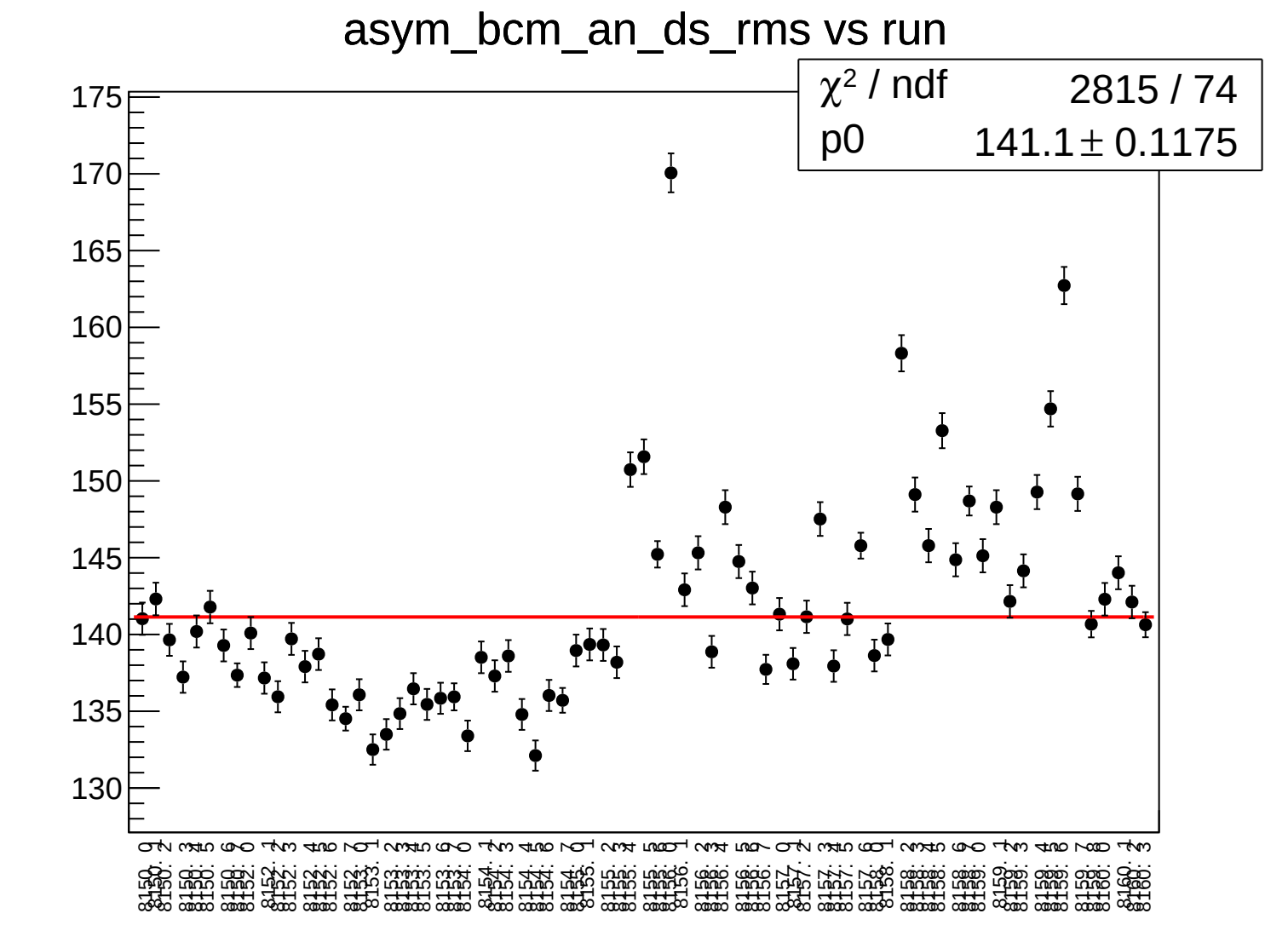

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 8381 / 74
p0 1.893e+05 ± 0.3717
189.38
189.36
189.34
189.32
189.3
189.28
189.26
189.24
189.22
pull
Entries 75
Mean −465.4
Std Dev 457.7
20
10
0
−10
−20

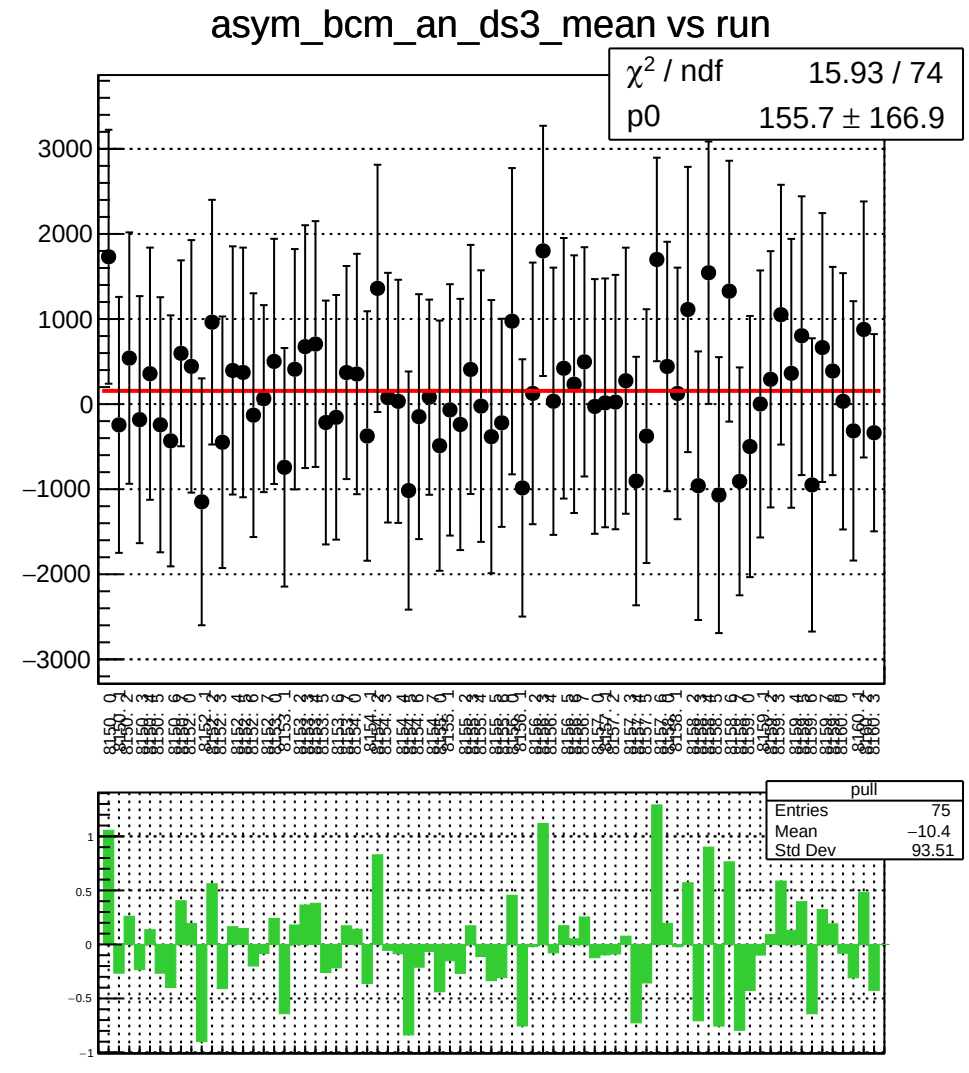

pull1D
Entries 75
Mean 0.7188
Std Dev 4.49
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

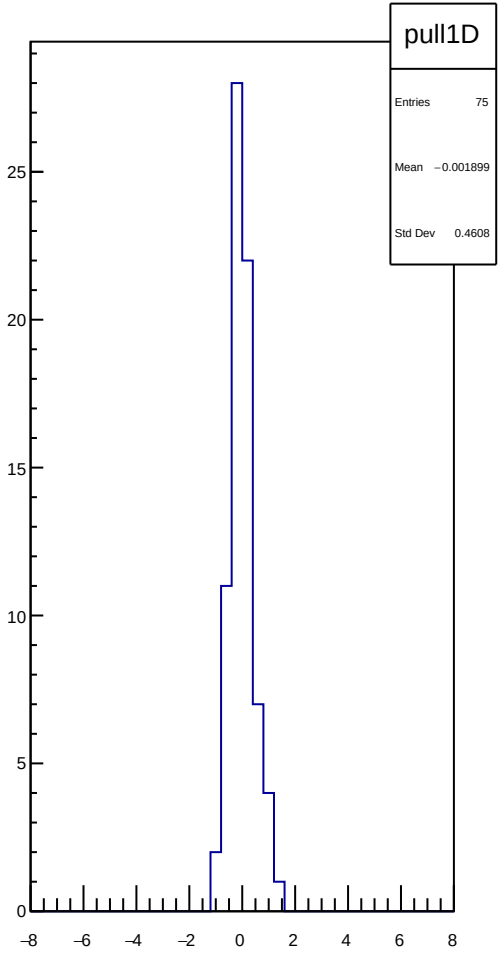

yield_bpm2i02WS_rms vs run
χ² / ndf 736.4 / 74
p0 315.9 ± 0.2629
340
335
330
325
320
315
310
305
300
295

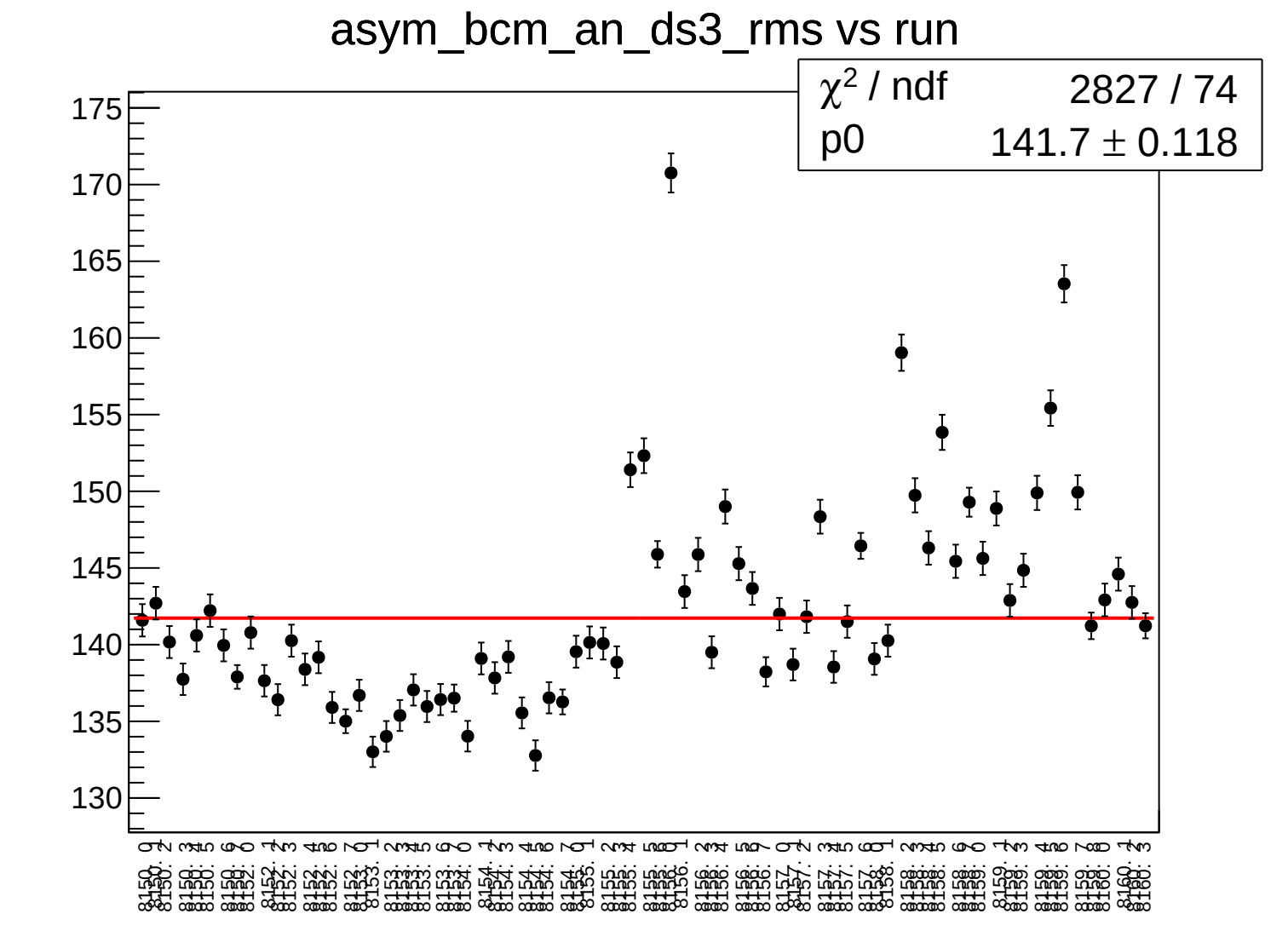

asym_bcm_an_ds_mean vs run
χ² / ndf 15.97 / 74
p0 142 ± 166.2
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 75
Mean 0.5493
Std Dev 81.84
1
0.5
0
−0.5
−1

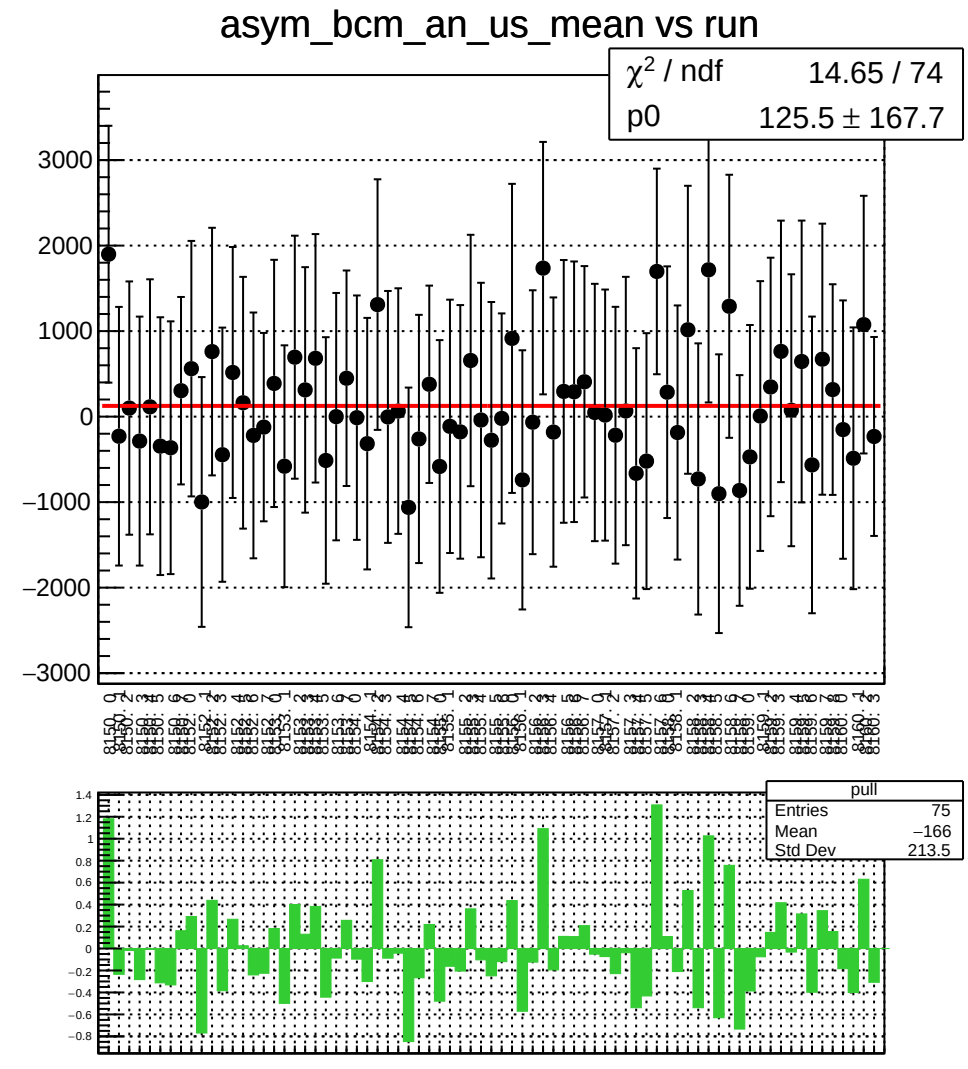

pull1D
Entries 75
Mean −0.002083
Std Dev 0.4614
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

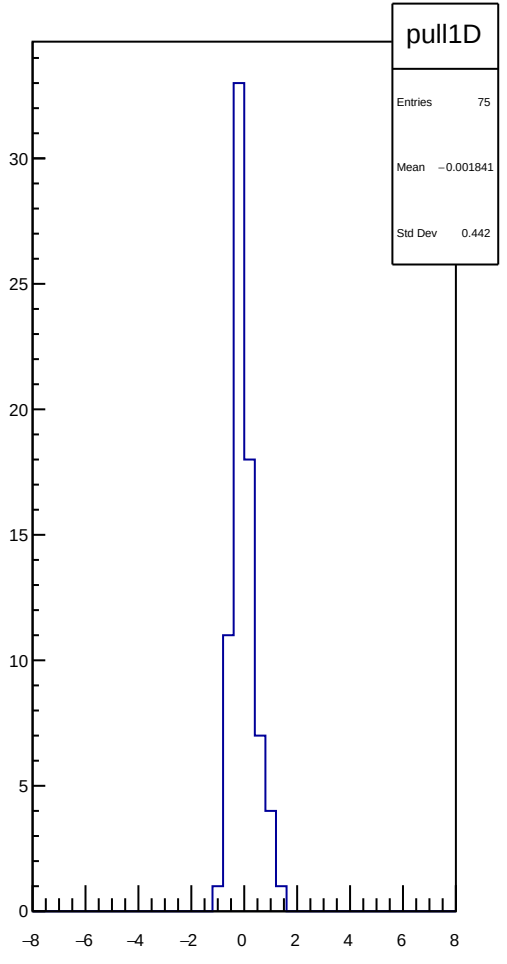

asym_bcm_an_ds_rms vs run
χ² / ndf 2815 / 74
p0 141.1 ± 0.1175
175
170
165
160
155
150
145
140
135
130

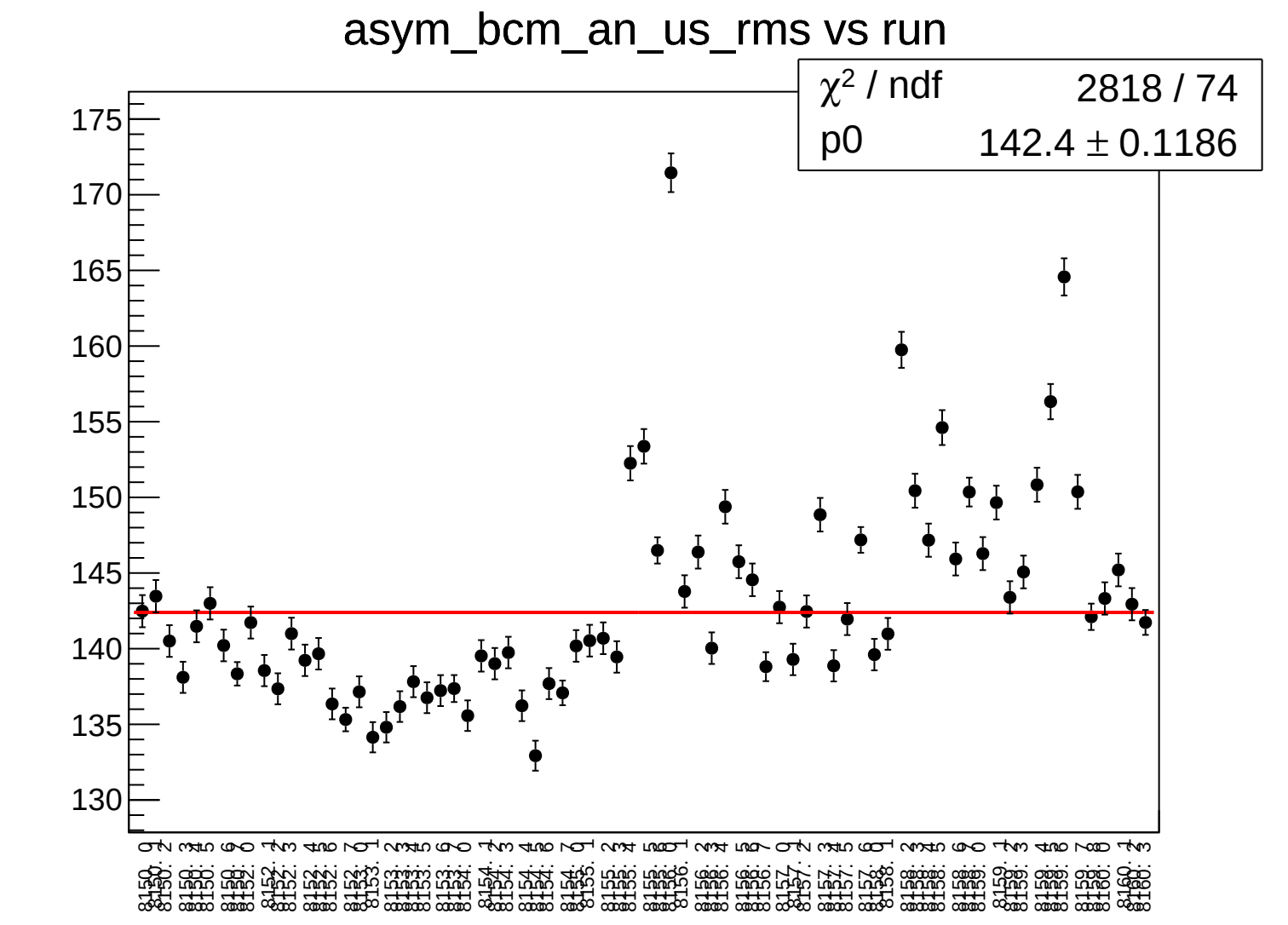

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.93 / 74
p0 155.7 ± 166.9
pull
Entries 75
Mean −10.4
Std Dev 93.51

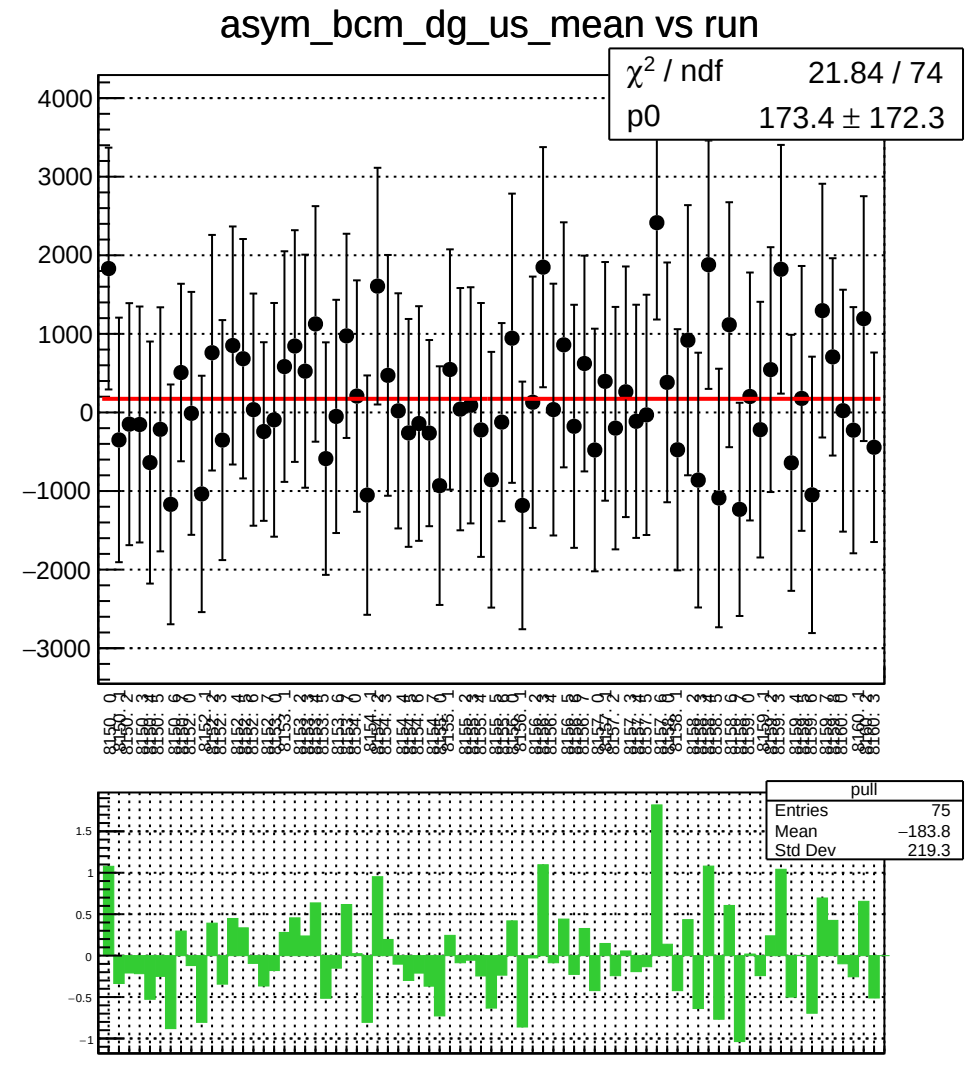

pull1D
Entries 75
Mean −0.001899
Std Dev 0.4608

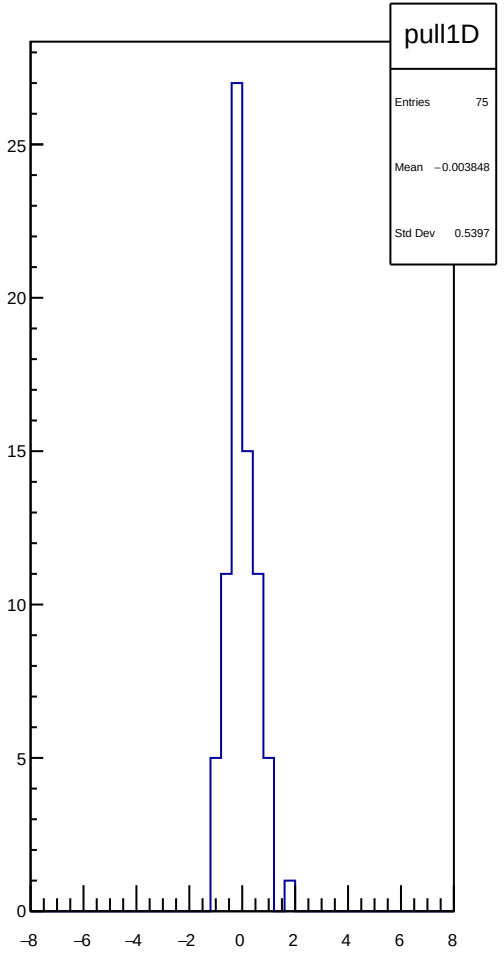

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 2827 / 74
p0 141.7 ± 0.118
175
170
165
160
155
150
145
140
135
130

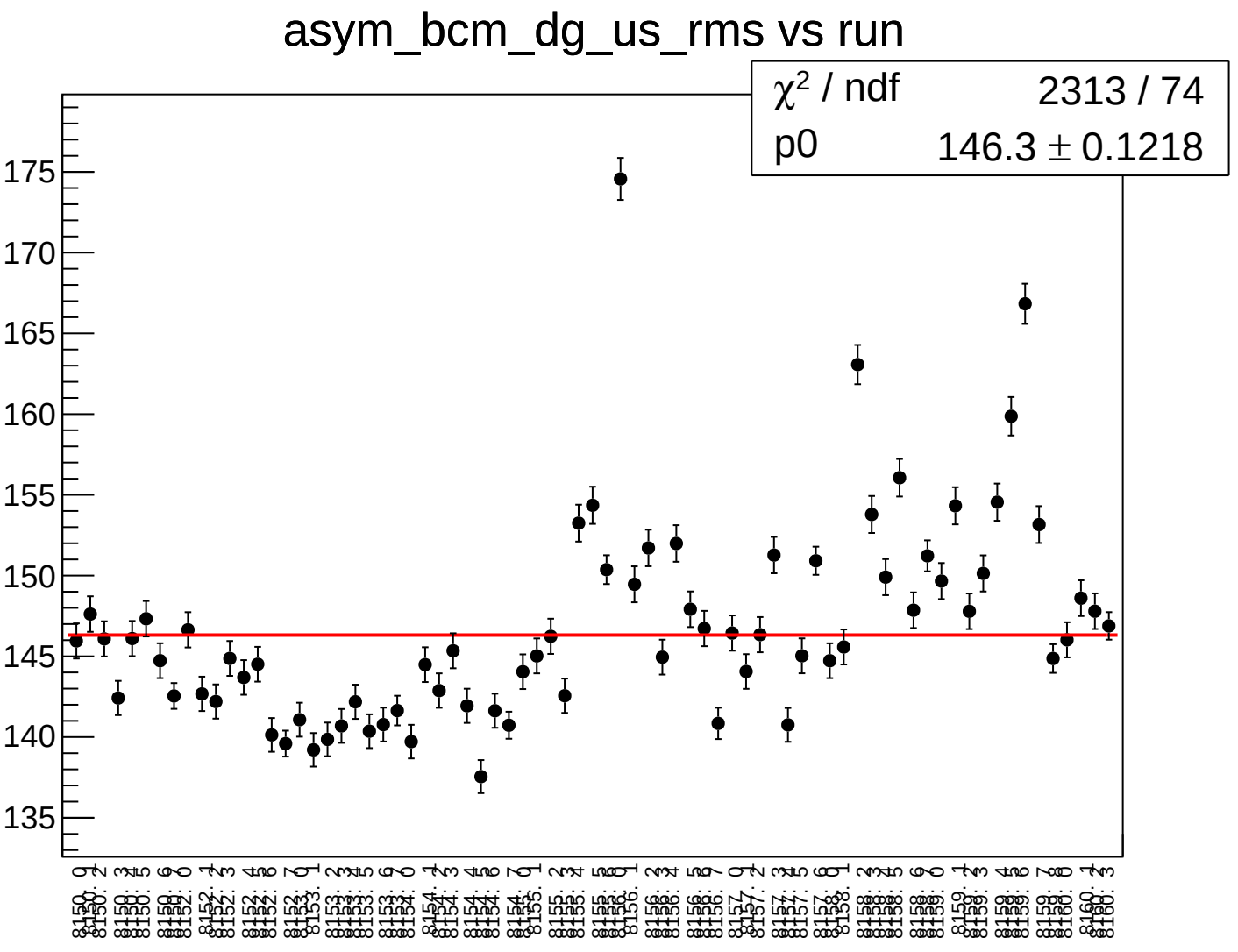

asym_bcm_an_us_mean vs run
χ^2 / ndf 14.65 / 74
p0 125.5 ± 167.7
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 75
Mean −166
Std Dev 213.5
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

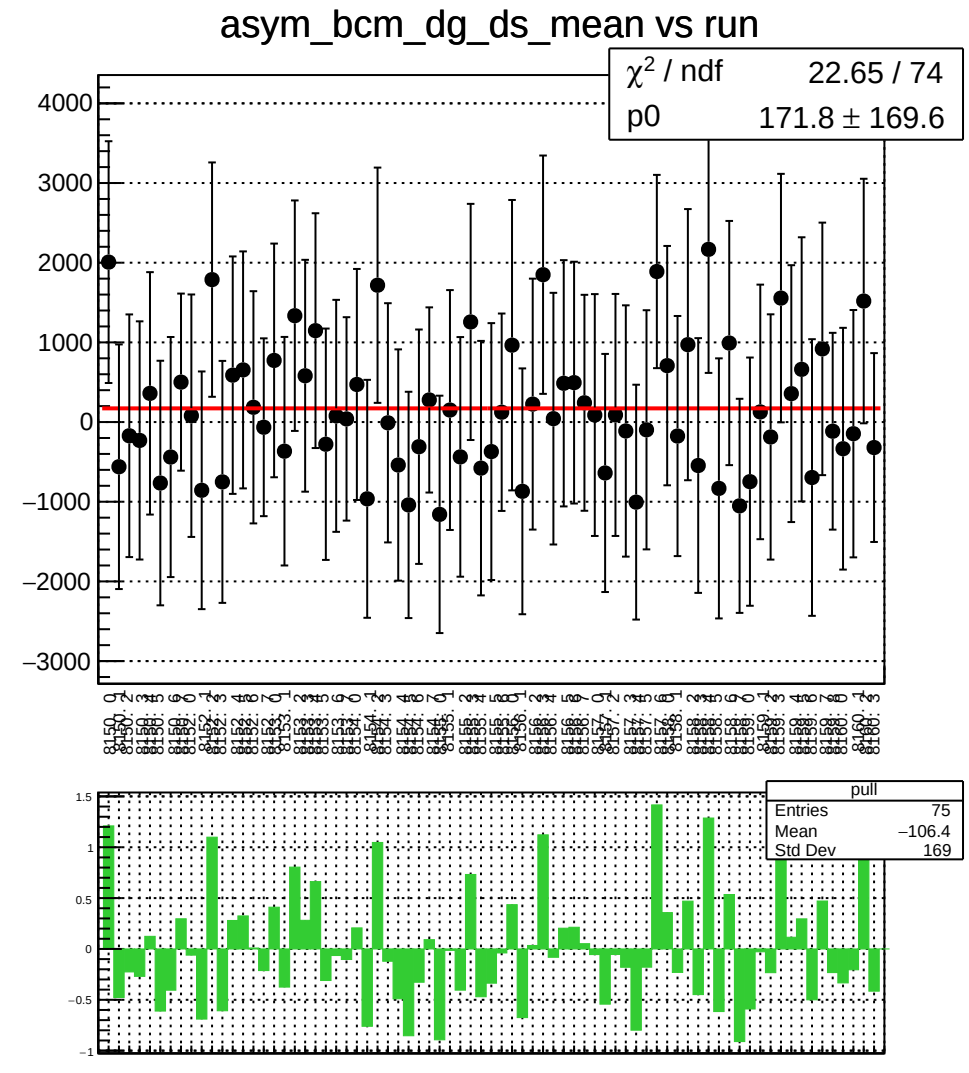

pull1D
Entries 75
Mean −0.001841
Std Dev 0.442
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

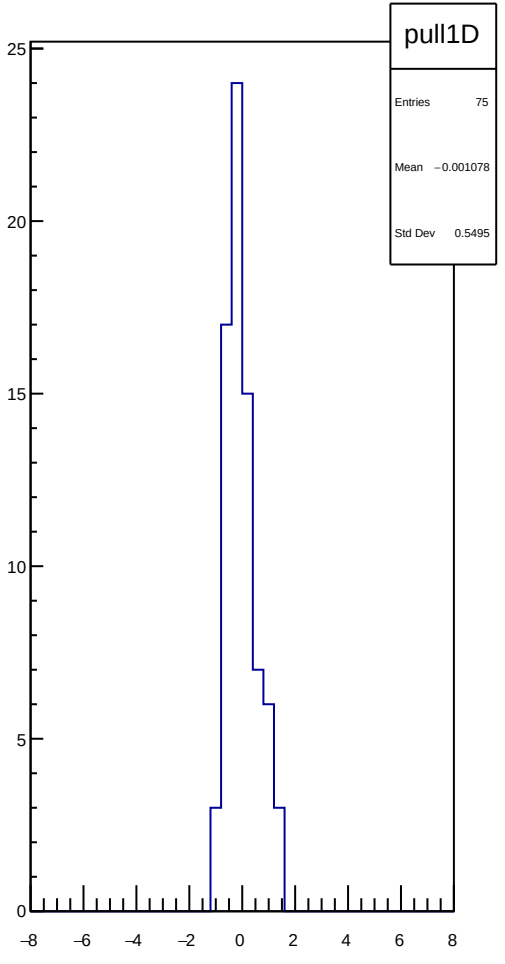

asym_bcm_an_us_rms vs run
χ² / ndf 2818 / 74
p0 142.4 ± 0.1186
175
170
165
160
155
150
145
140
135
130

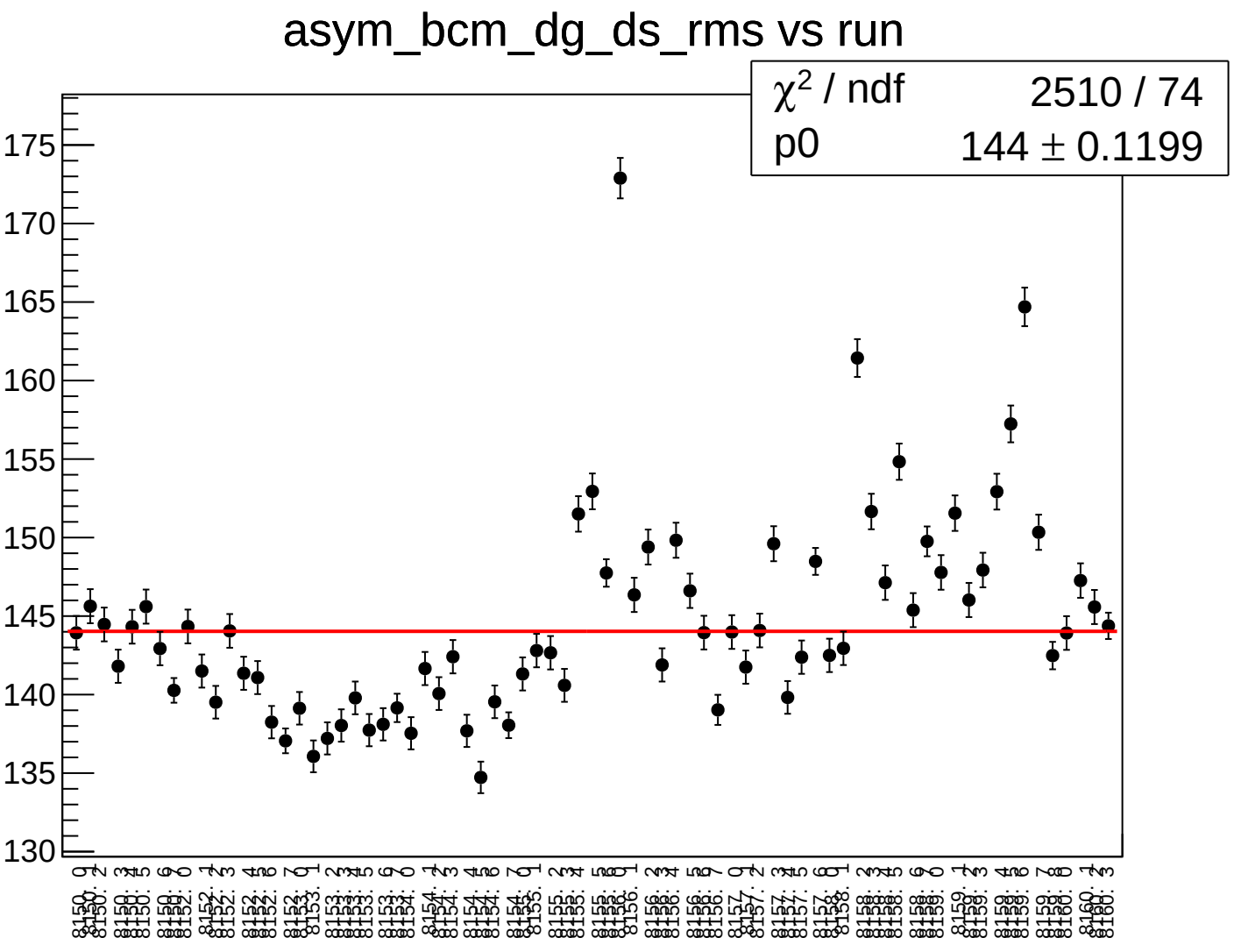

asym_bcm_dg_us_mean vs run
χ² / ndf 21.84 / 74
p0 173.4 ± 172.3
pull
Entries 75
Mean −183.8
Std Dev 219.3

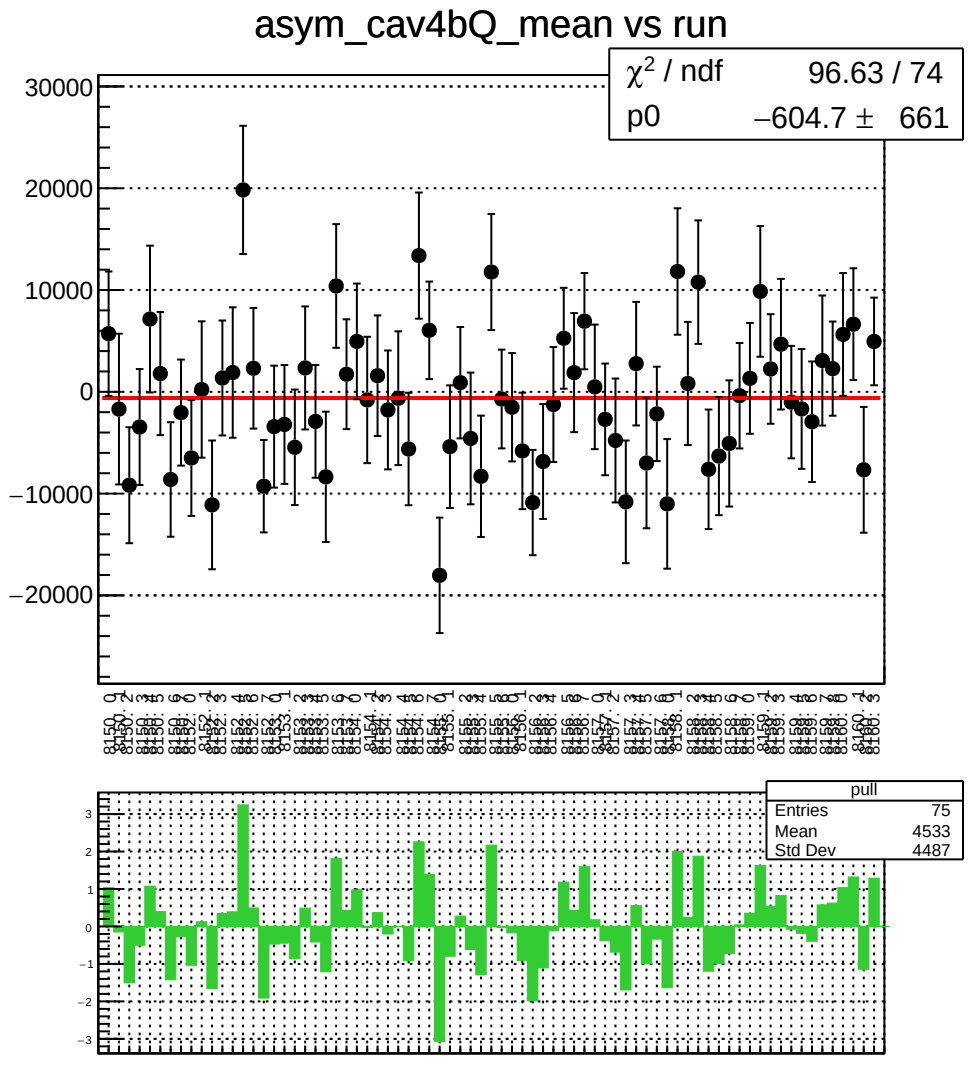

pull1D
Entries 75
Mean −0.003848
Std Dev 0.5397

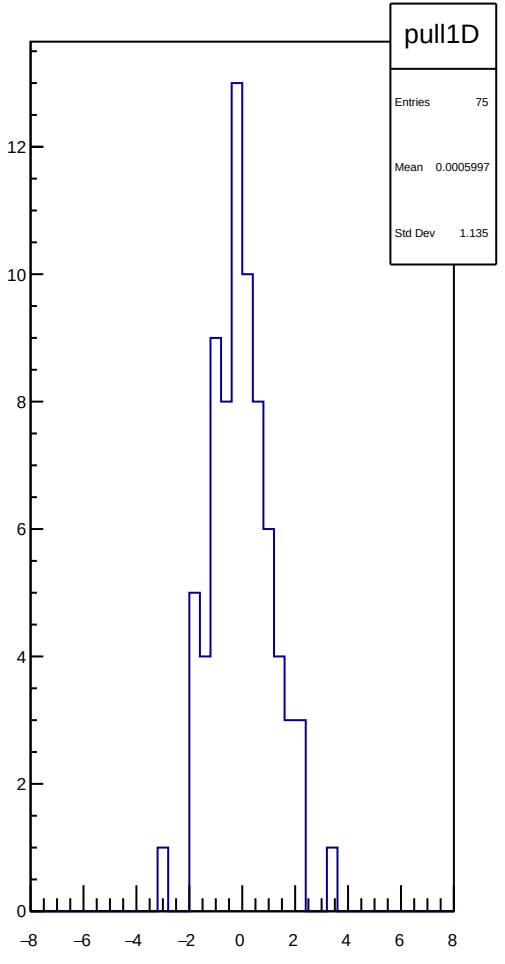

asym_bcm_dg_us_rms vs run
χ^2 / ndf 2313 / 74
p0 146.3 ± 0.1218
175
170
165
160
155
150
145
140
135

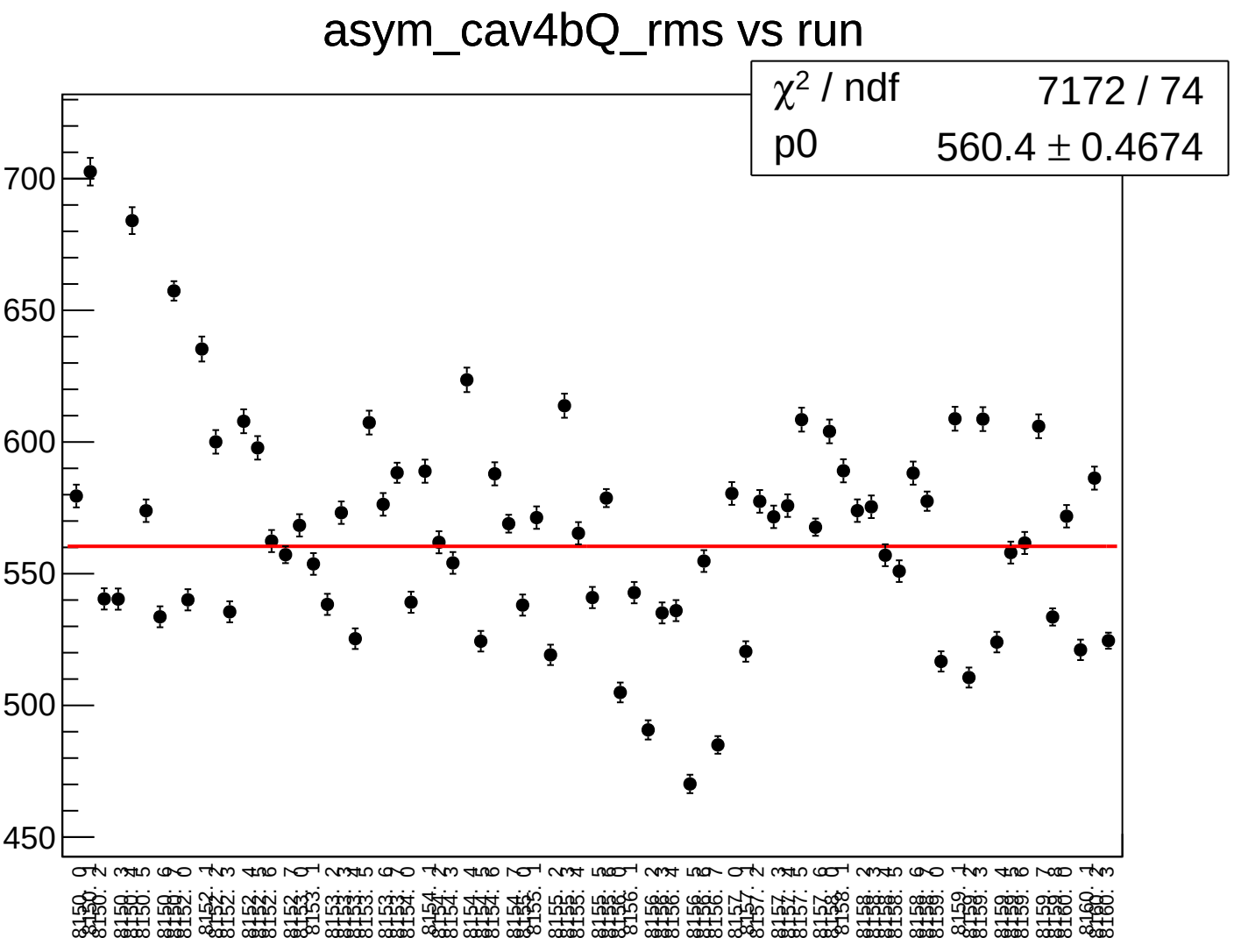

asym_bcm_dg_ds_mean vs run
χ² / ndf 22.65 / 74
p0 171.8 ± 169.6
pull
Entries 75
Mean −106.4
Std Dev 169

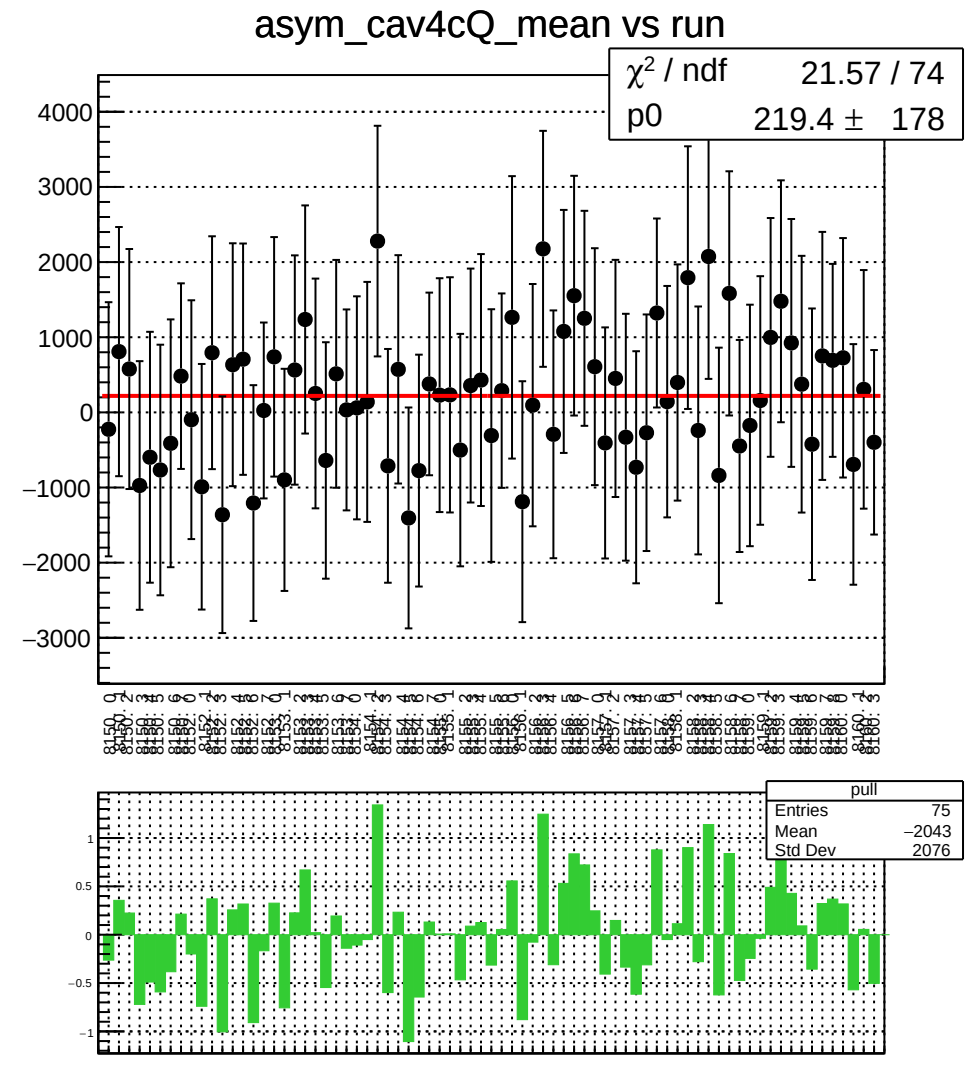

pull1D
Entries 75
Mean −0.001078
Std Dev 0.5495

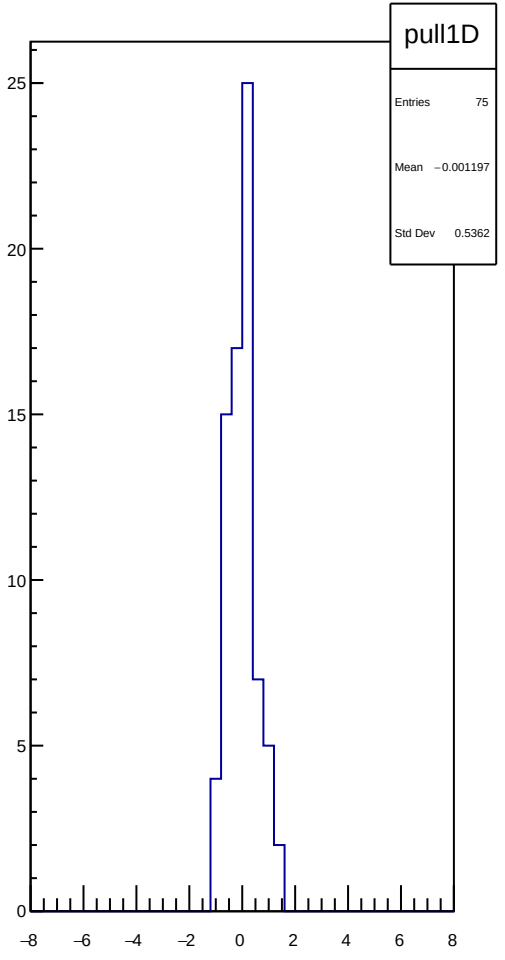

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 2510 / 74
p0 144 ± 0.1199
175
170
165
160
155
150
145
140
135
130

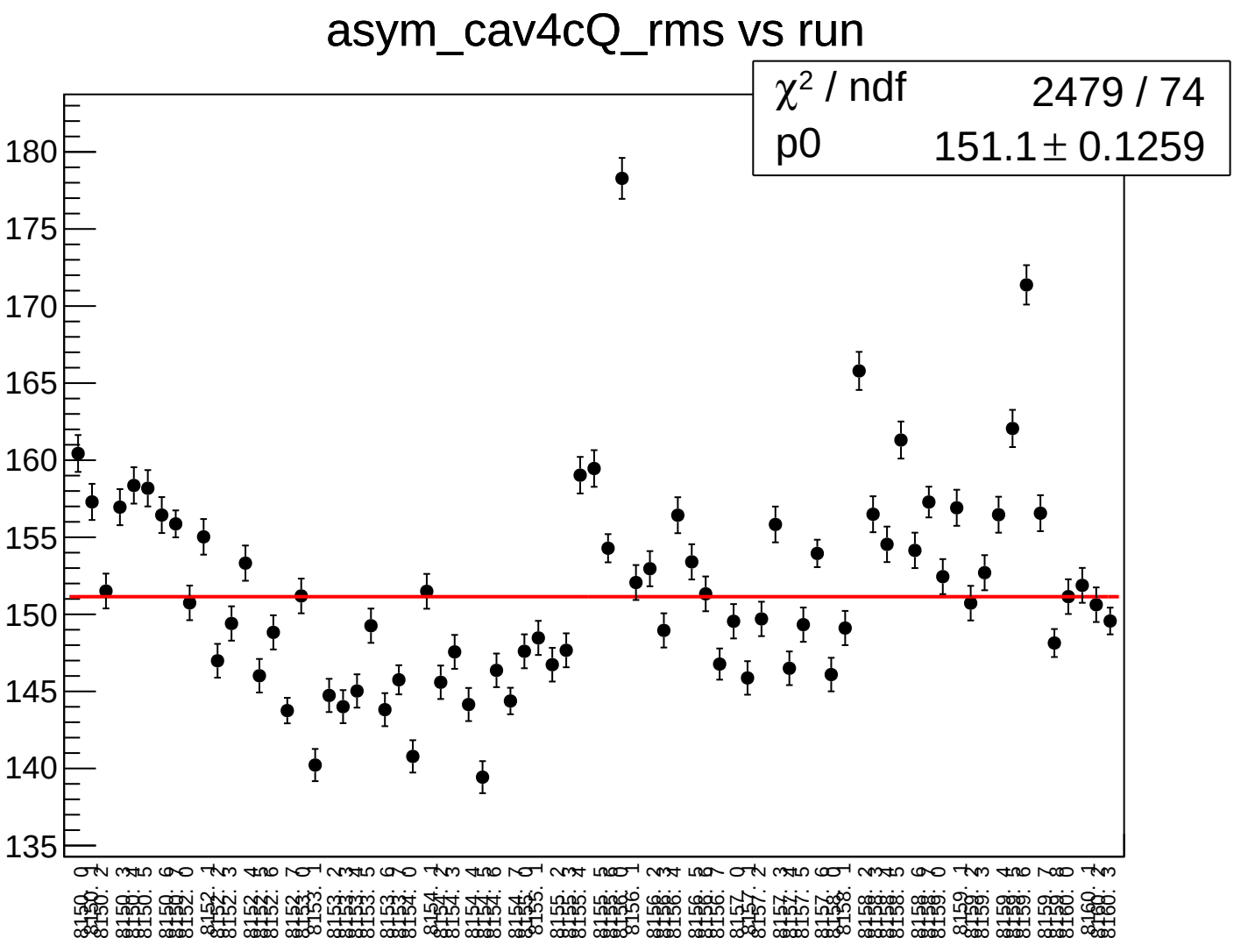

asym_cav4bQ_mean vs run
χ² / ndf 96.63 / 74
p0 −604.7 ± 661
pull
Entries 75
Mean 4533
Std Dev 4487

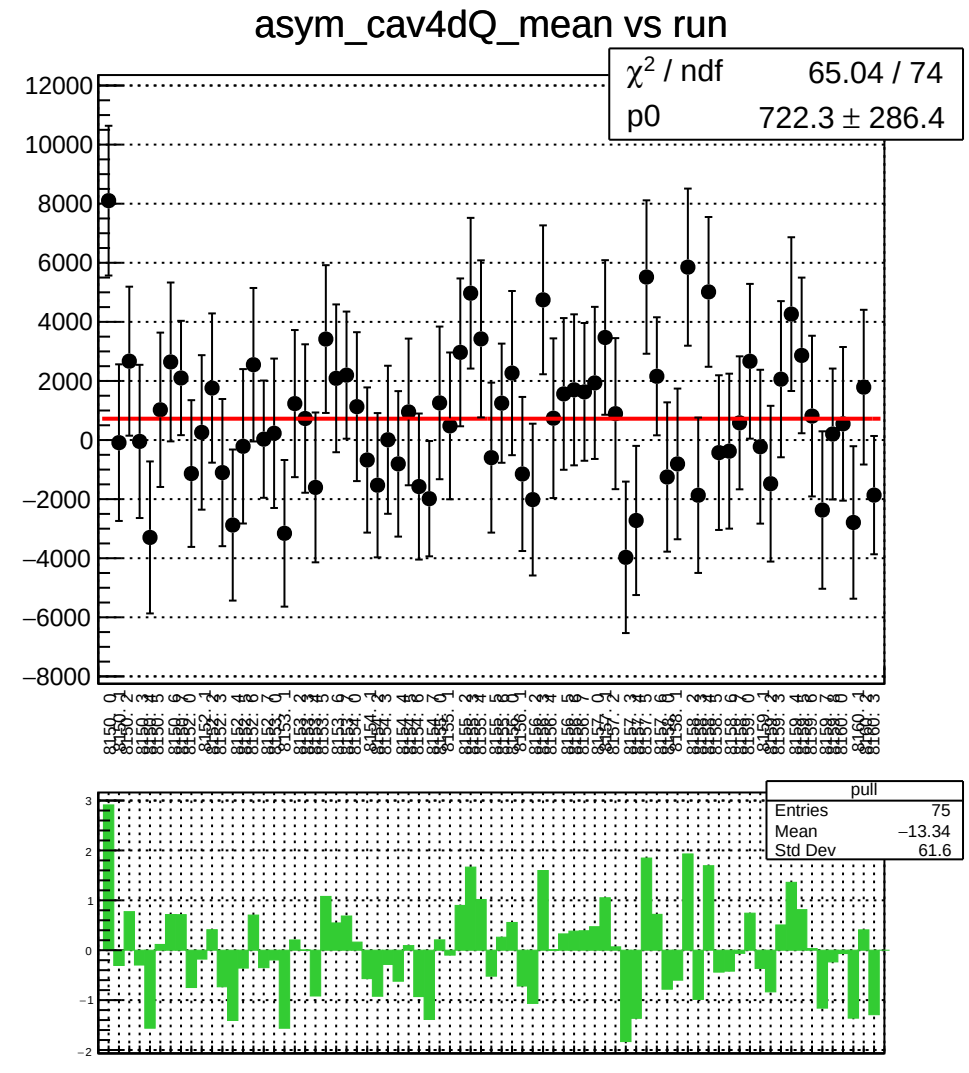

pull1D
Entries 75
Mean 0.0005997
Std Dev 1.135

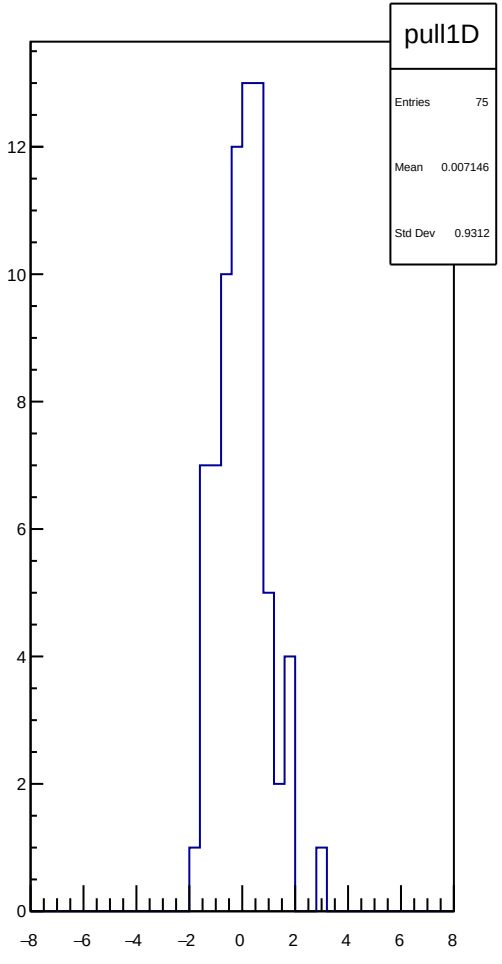

asym_cav4bQ_rms vs run
χ² / ndf 7172 / 74
p0 560.4 ± 0.4674
700
650
600
550
500
450

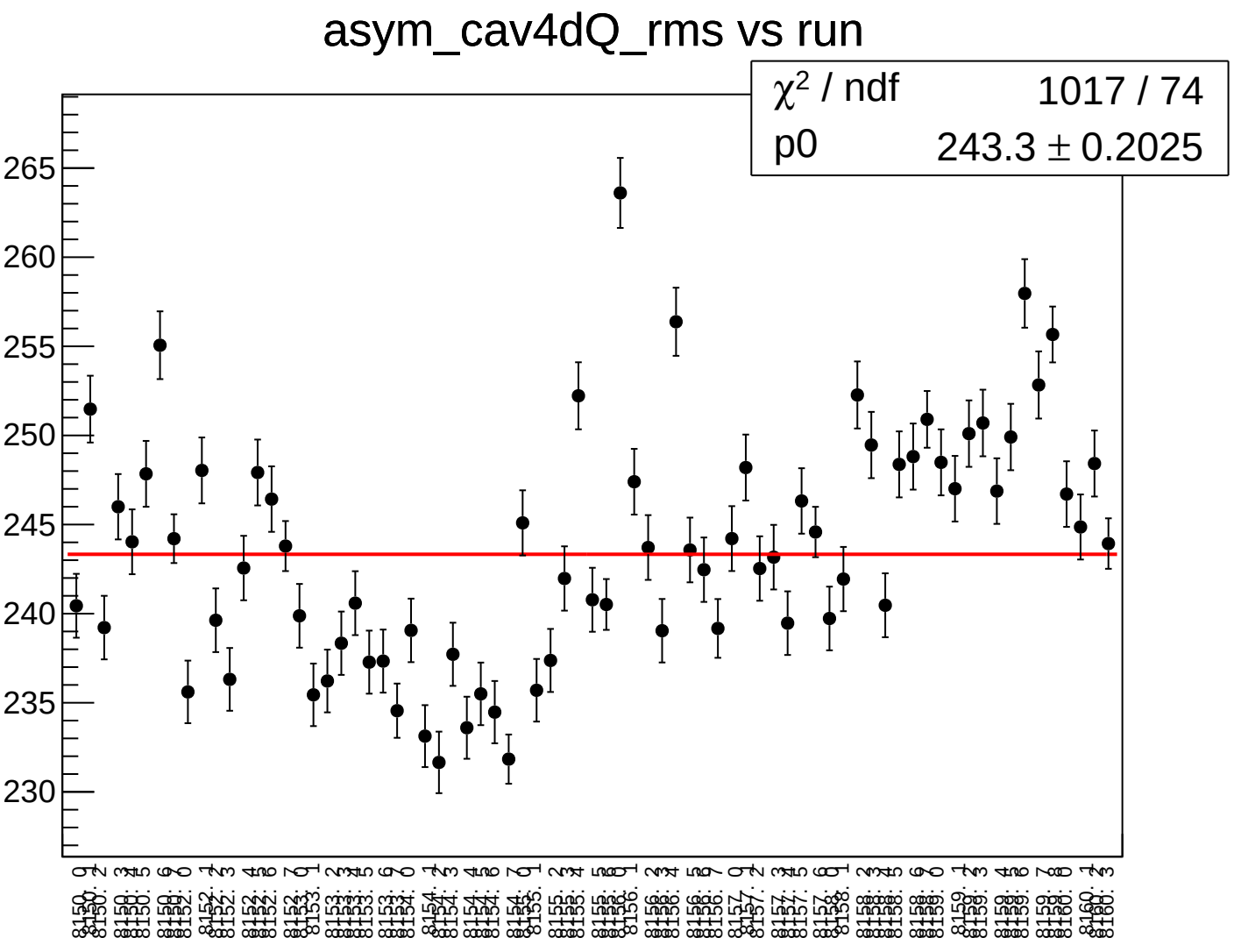

asym_cav4cQ_mean vs run
χ² / ndf 21.57 / 74
p0 219.4 ± 178
pull
Entries 75
Mean −2043
Std Dev 2076

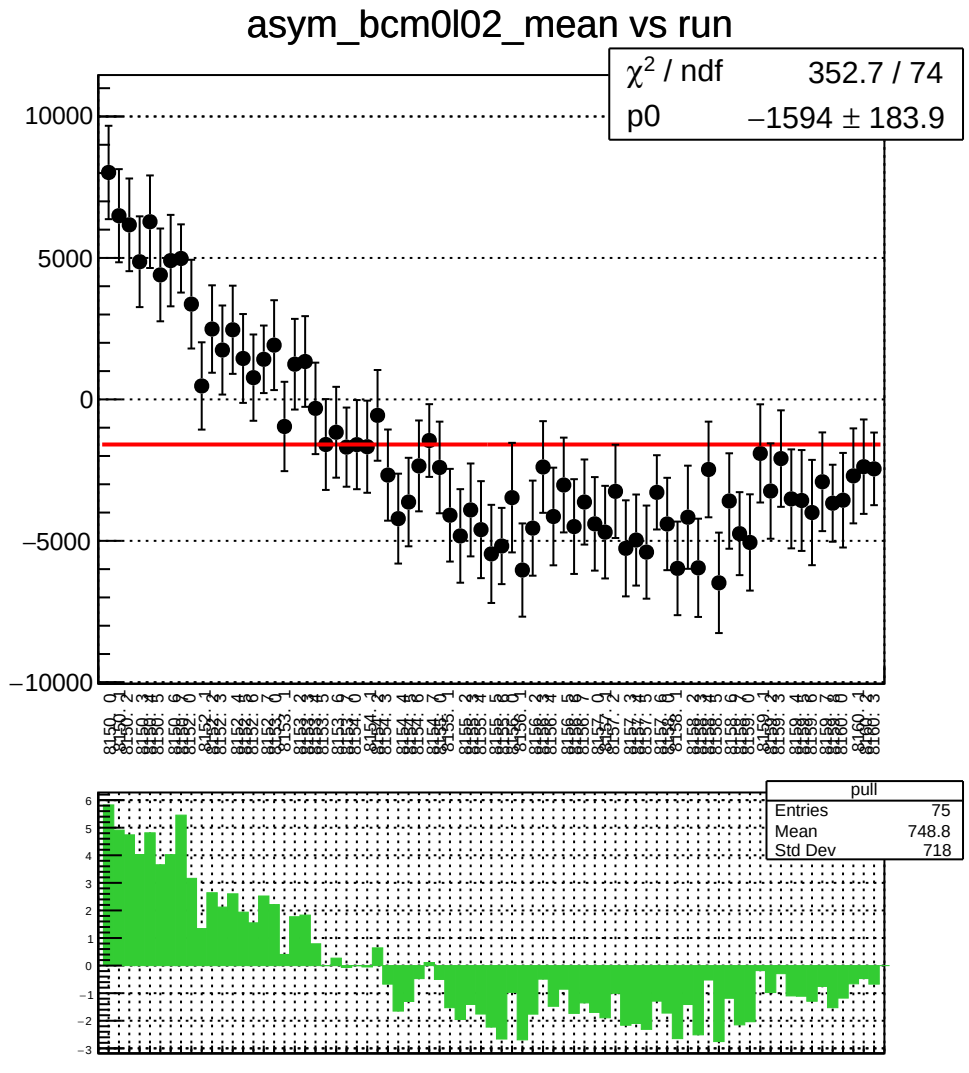

pull1D
Entries 75
Mean −0.001197
Std Dev 0.5362

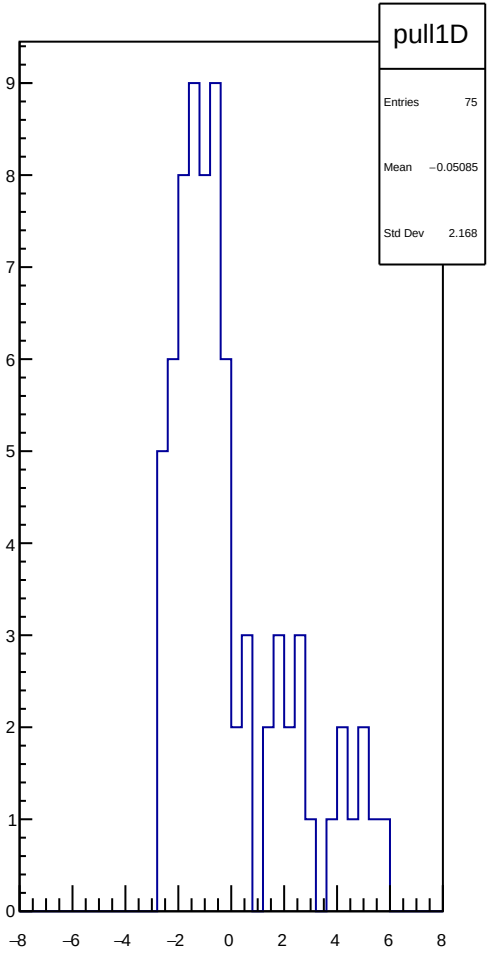

asym_cav4cQ_rms vs run
χ² / ndf 2479 / 74
p0 151.1 ± 0.1259
180
175
170
165
160
155
150
145
140
135

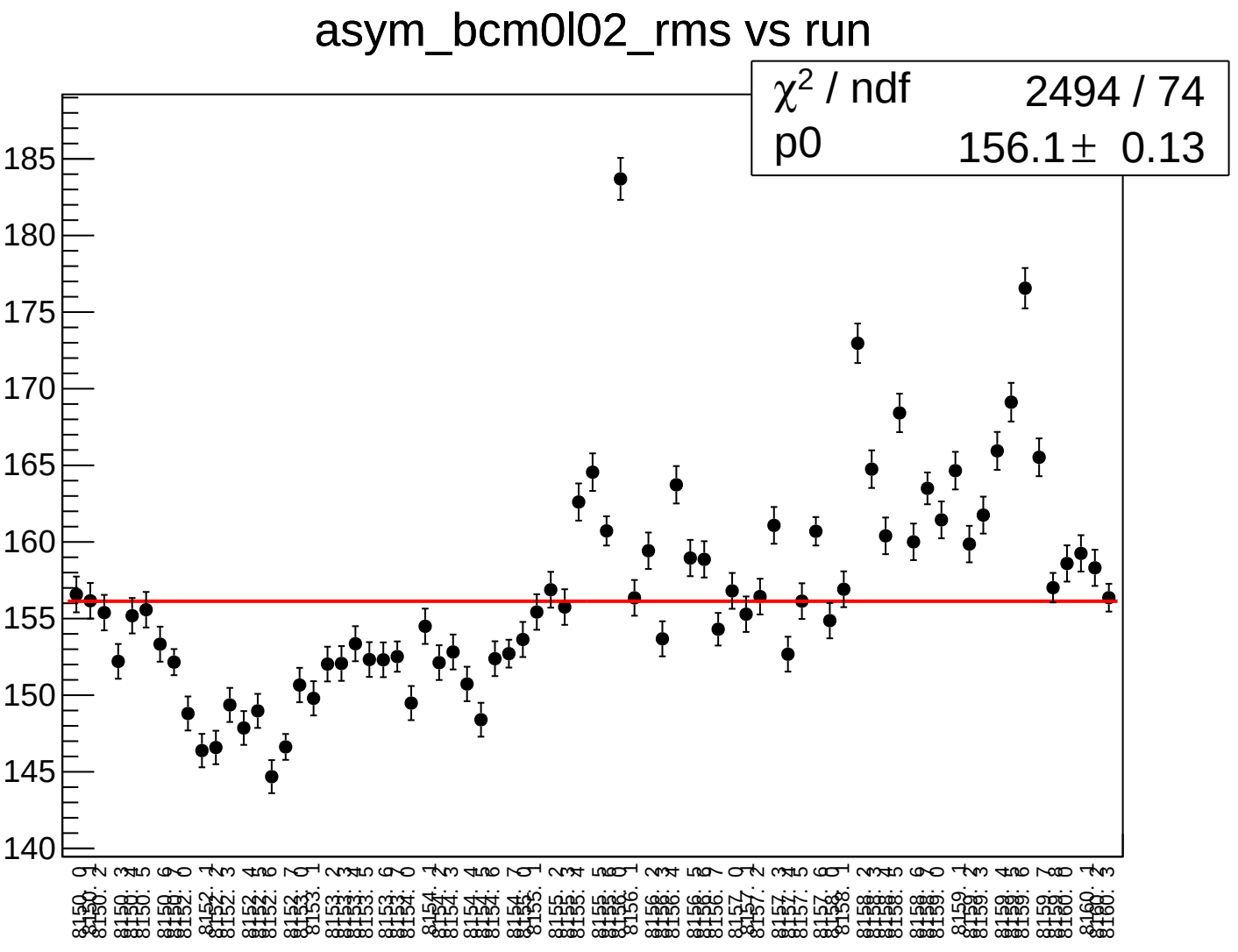

asym_cav4dQ_mean vs run
χ² / ndf 65.04 / 74
p0 722.3 ± 286.4
pull
Entries 75
Mean −13.34
Std Dev 61.6

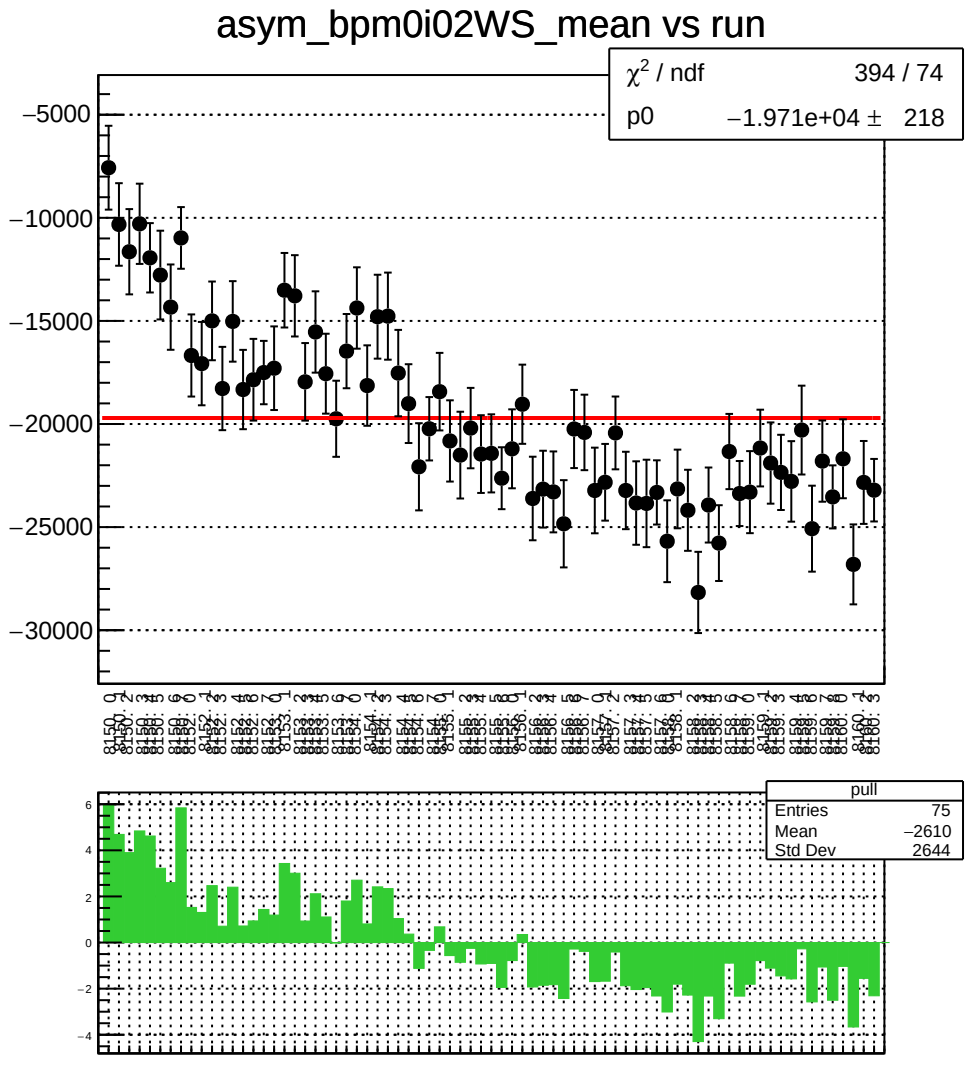

pull1D
Entries 75
Mean 0.007146
Std Dev 0.9312

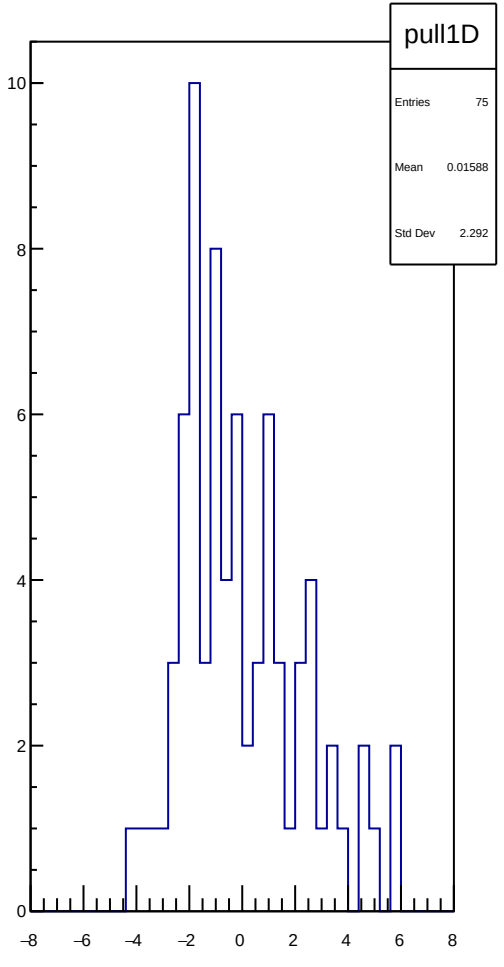

asym_cav4dQ_rms vs run
χ² / ndf 1017 / 74
p0 243.3 ± 0.2025
265
260
255
250
245
240
235
230

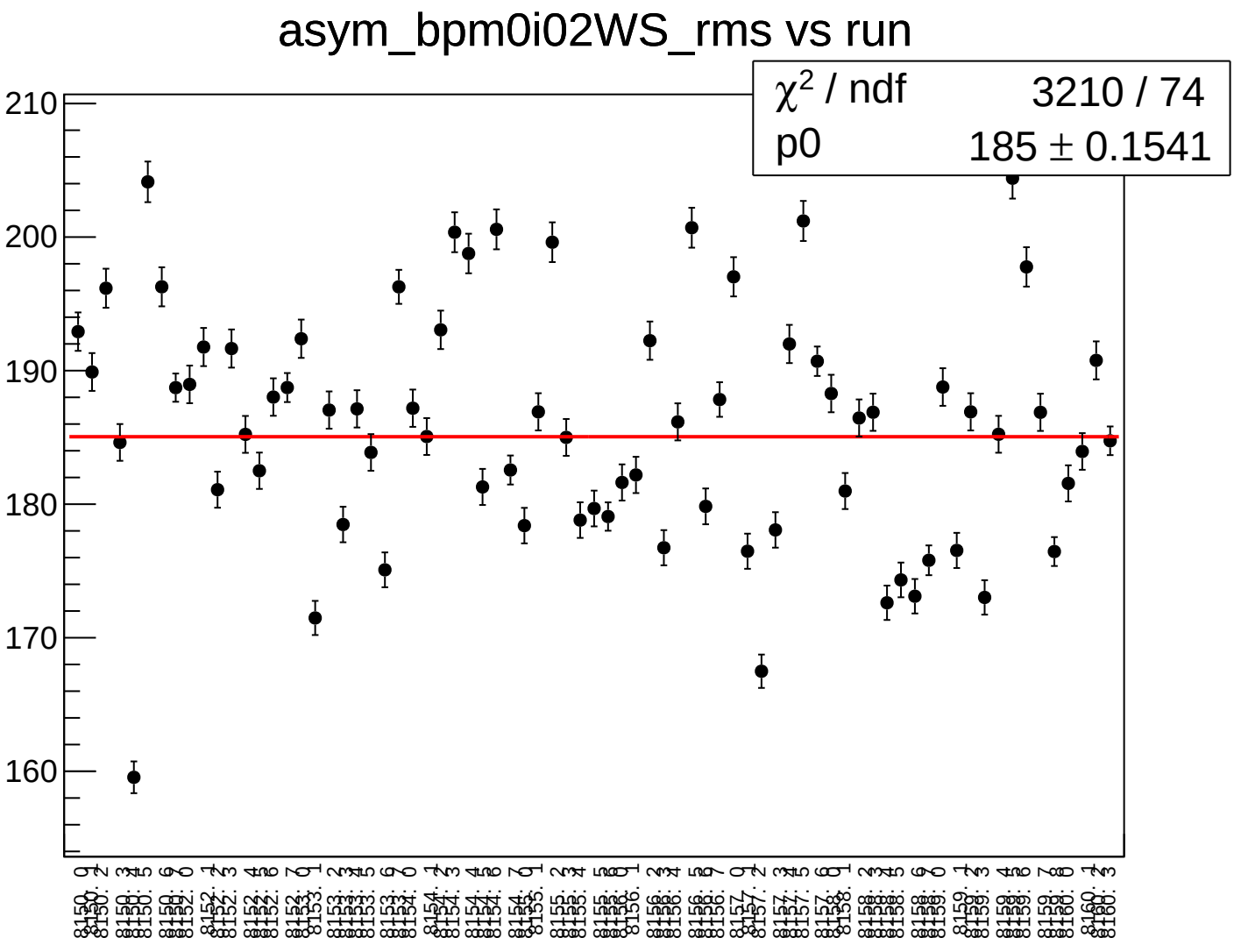

asym_bcm0l02_mean vs run
χ² / ndf 352.7 / 74
p0 −1594 ± 183.9
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 748.8
Std Dev 718
6
5
4
3
2
1
0
−1
−2
−3

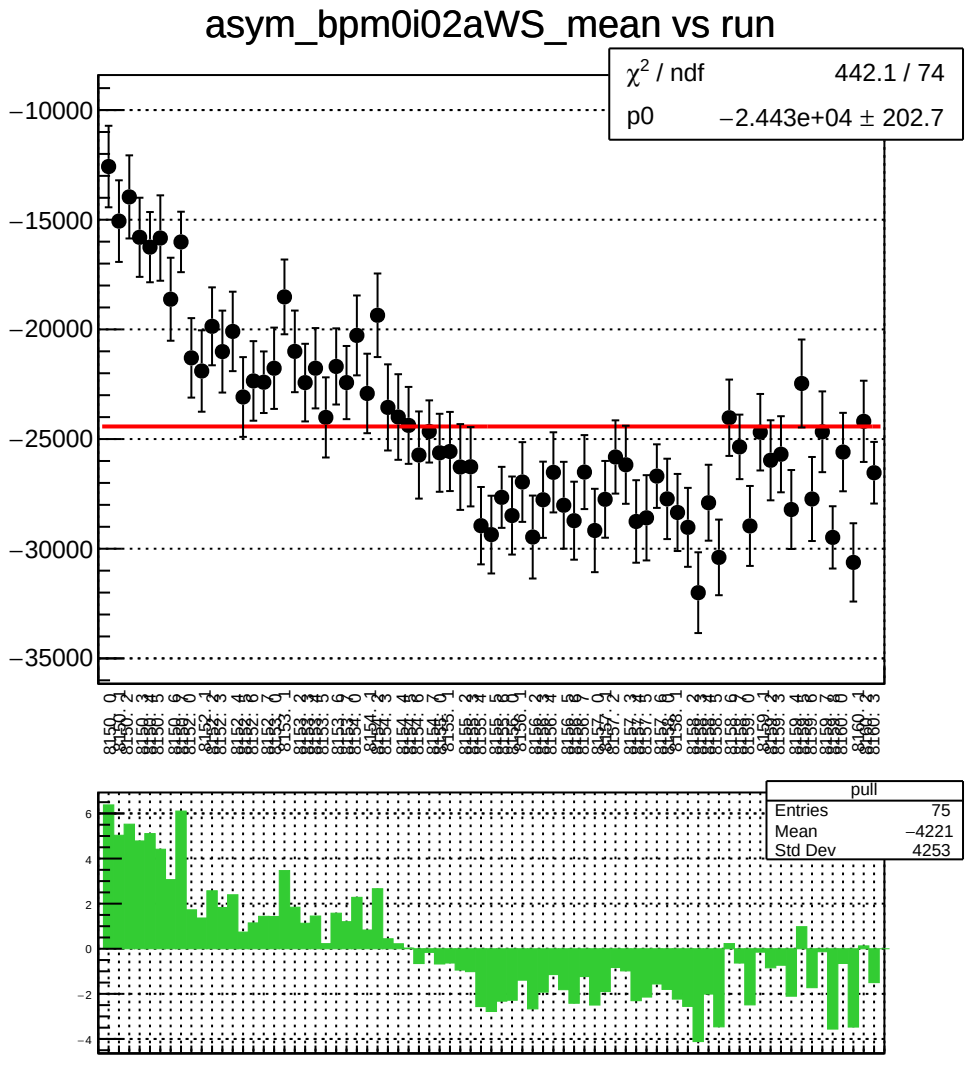

pull1D
Entries 75
Mean −0.05085
Std Dev 2.168
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

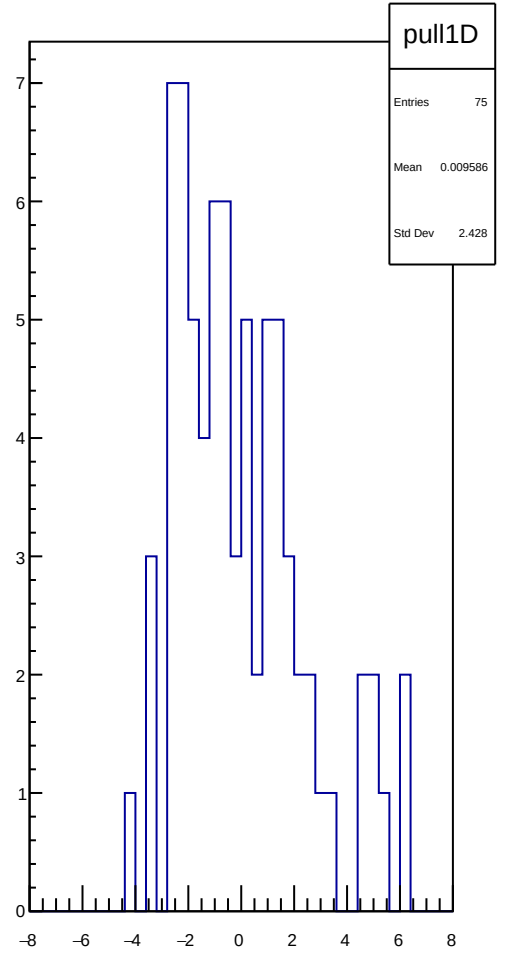

asym_bcm0l02_rms vs run
χ² / ndf 2494 / 74
p0 156.1 ± 0.13
185
180
175
170
165
160
155
150
145
140

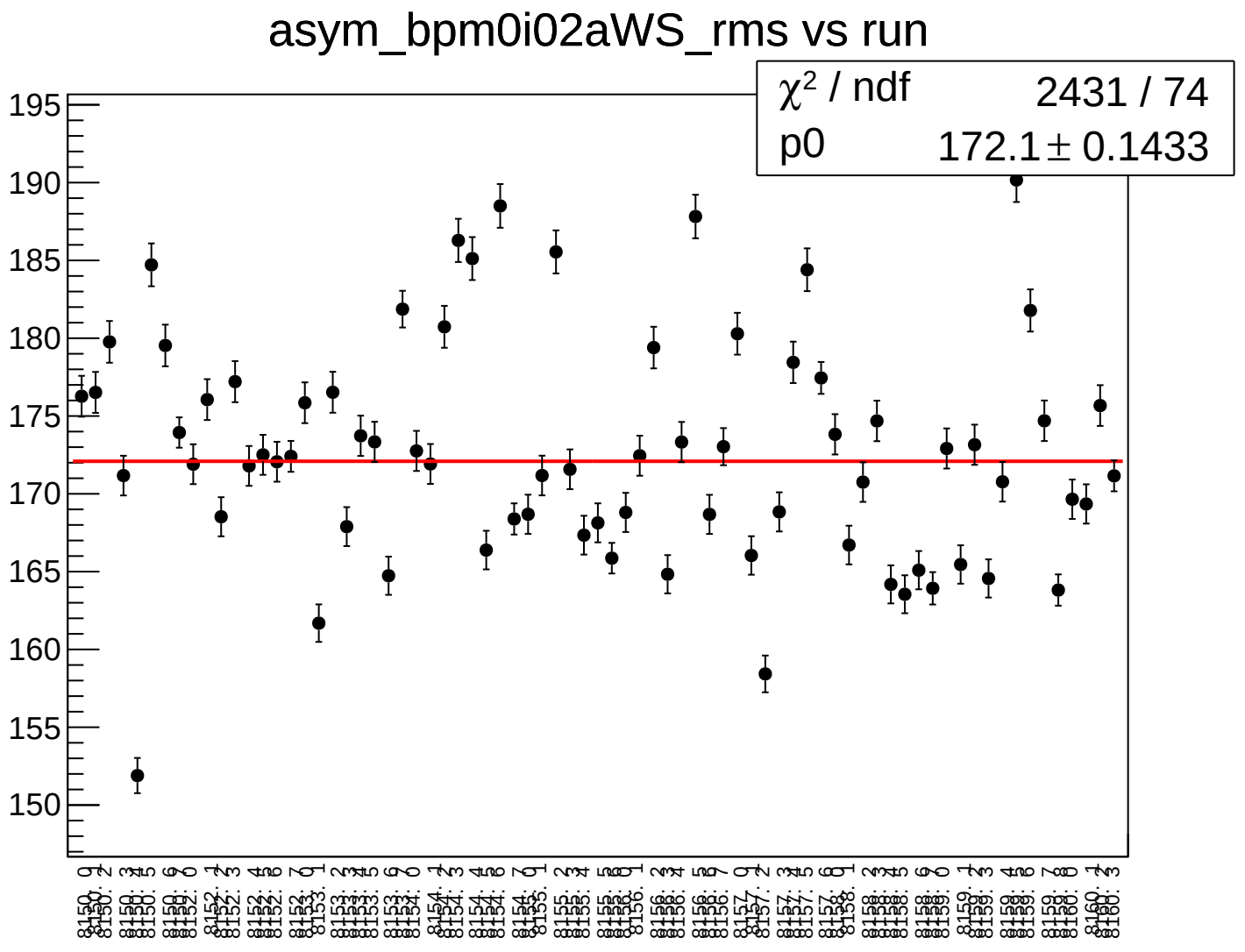

asym_bpm0i02WS_mean vs run
χ² / ndf 394 / 74
p0 −1.971e+04 ± 218
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 75
Mean −2610
Std Dev 2644
6
4
2
0
−2
−4

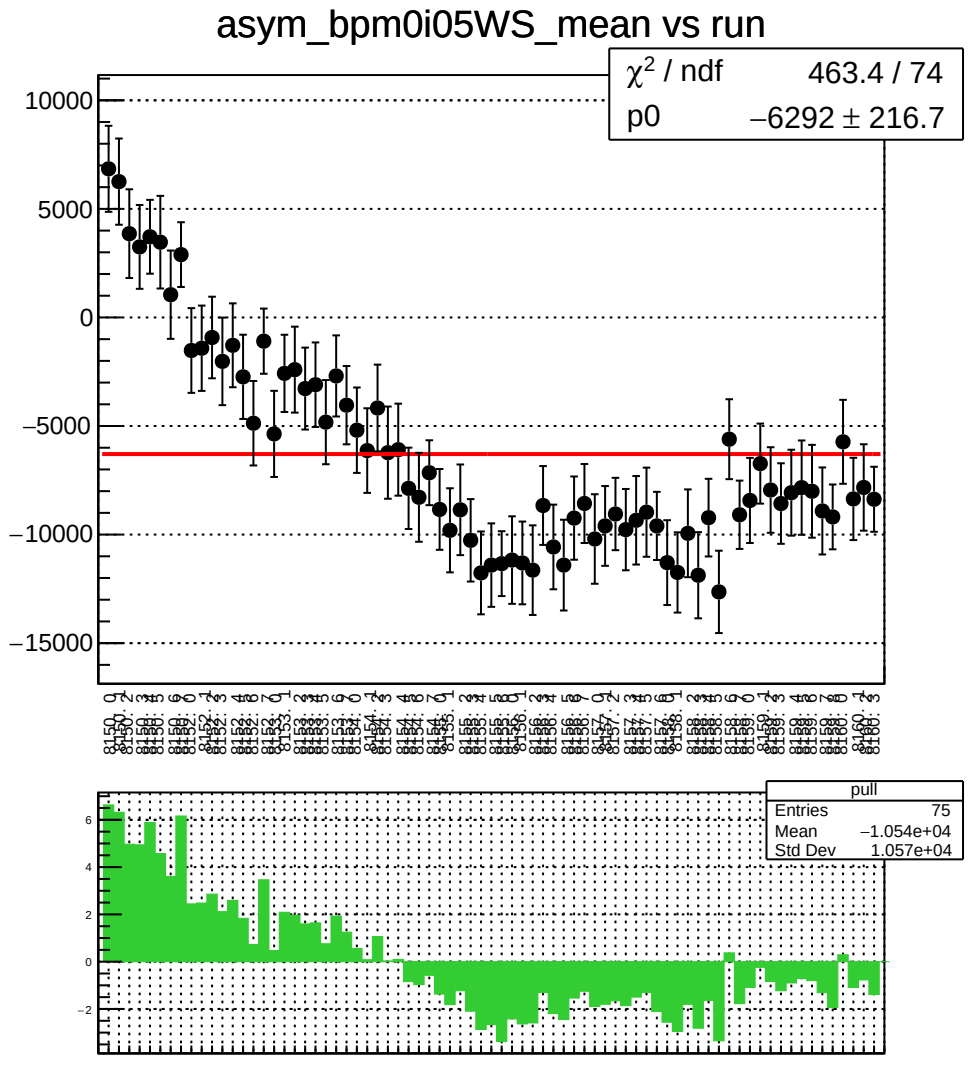

pull1D
Entries 75
Mean 0.01588
Std Dev 2.292
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

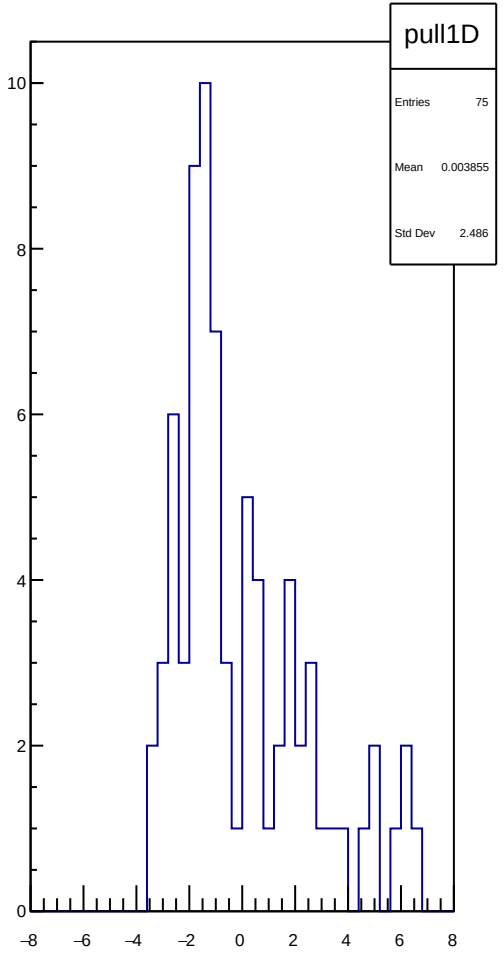

asym_bpm0i02WS_rms vs run
χ^2 / ndf 3210 / 74
p0 185 ± 0.1541
210
200
190
180
170
160

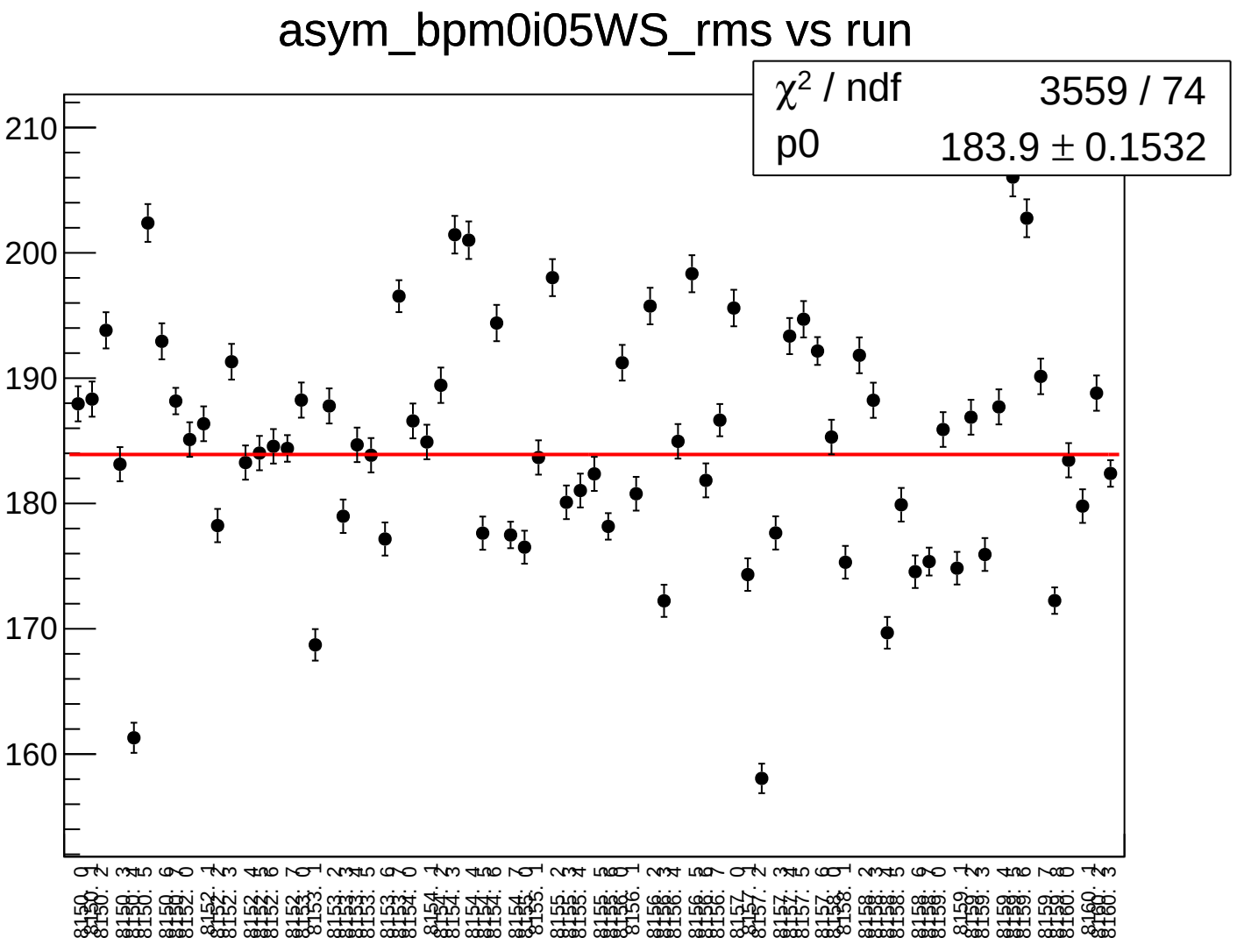

asym_bpm0i02aWS_mean vs run
χ² / ndf 442.1 / 74
p0 −2.443e+04 ± 202.7
−10000
−15000
−20000
−25000
−30000
−35000
pull
Entries 75
Mean −4221
Std Dev 4253

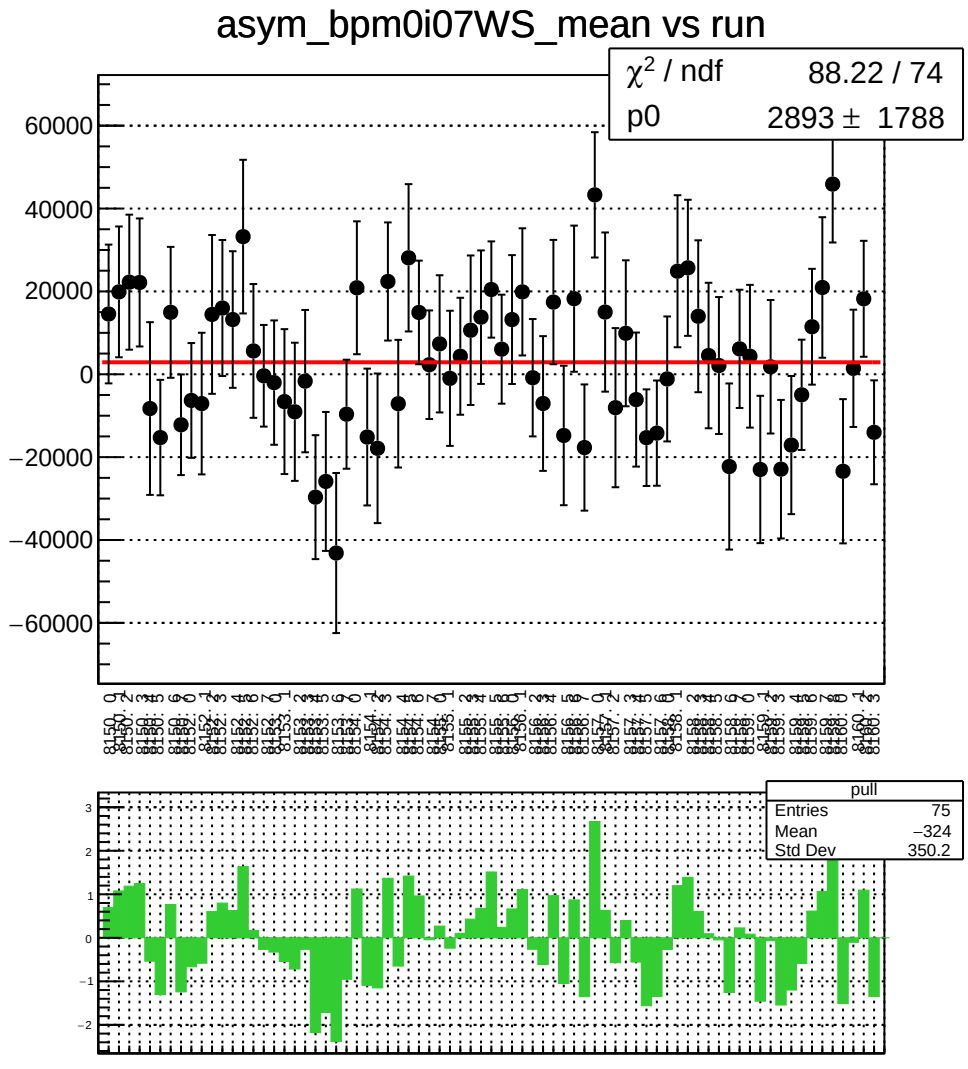

pull1D
Entries 75
Mean 0.009586
Std Dev 2.428

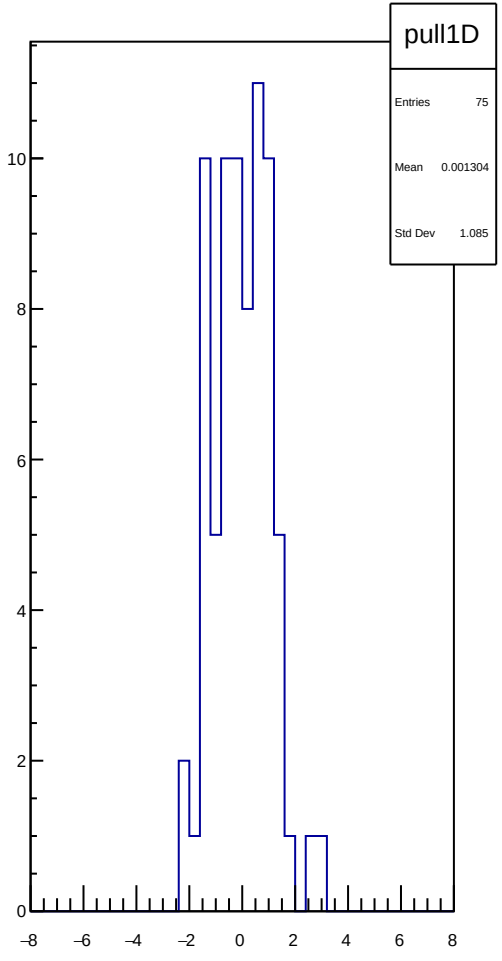

asym_bpm0i02aWS_rms vs run
χ² / ndf 2431 / 74
p0 172.1 ± 0.1433
195
190
185
180
175
170
165
160
155
150

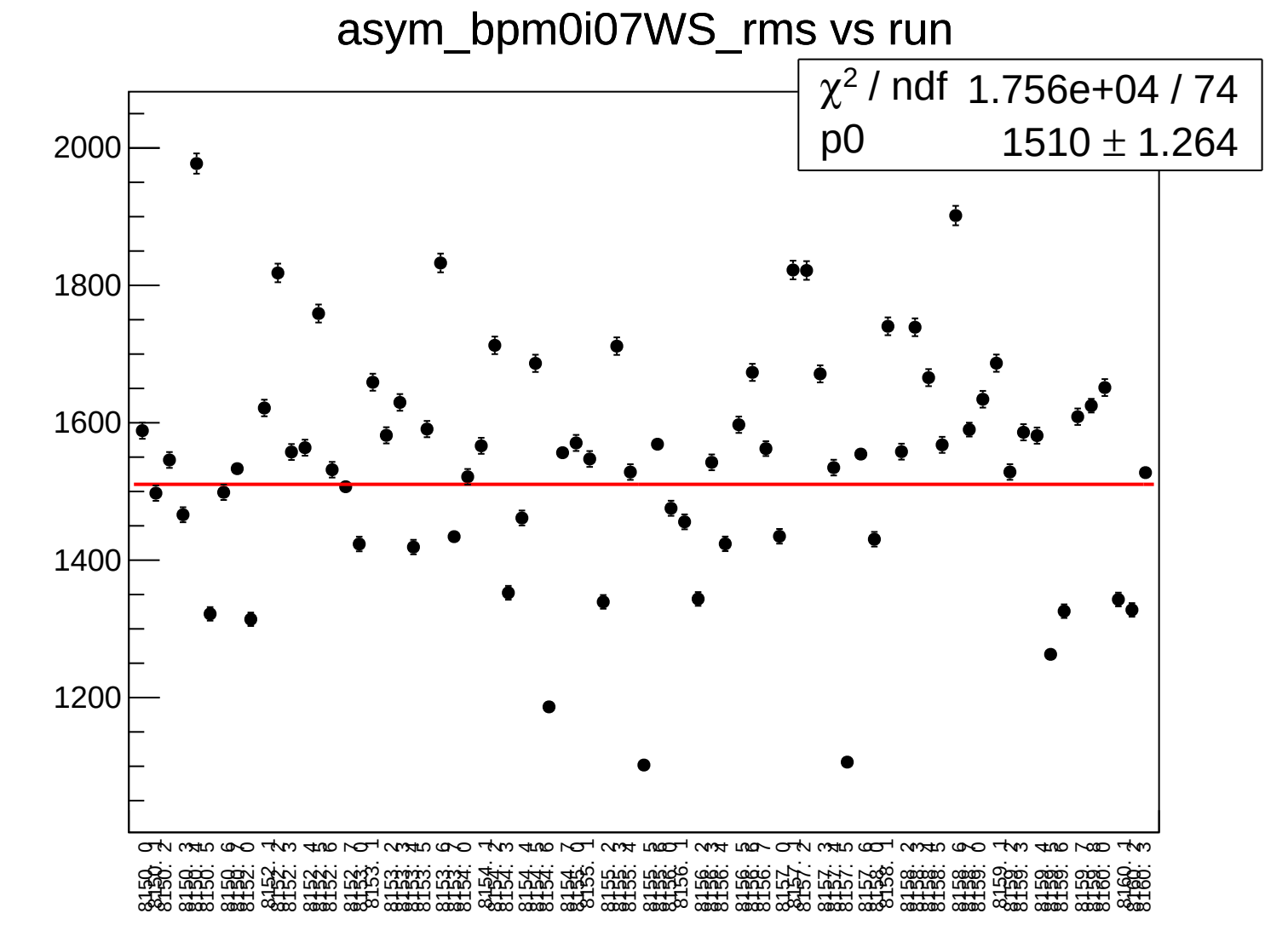

asym_bpm0i05WS_mean vs run
χ² / ndf 463.4 / 74
p0 −6292 ± 216.7
pull
Entries 75
Mean −1.054e+04
Std Dev 1.057e+04

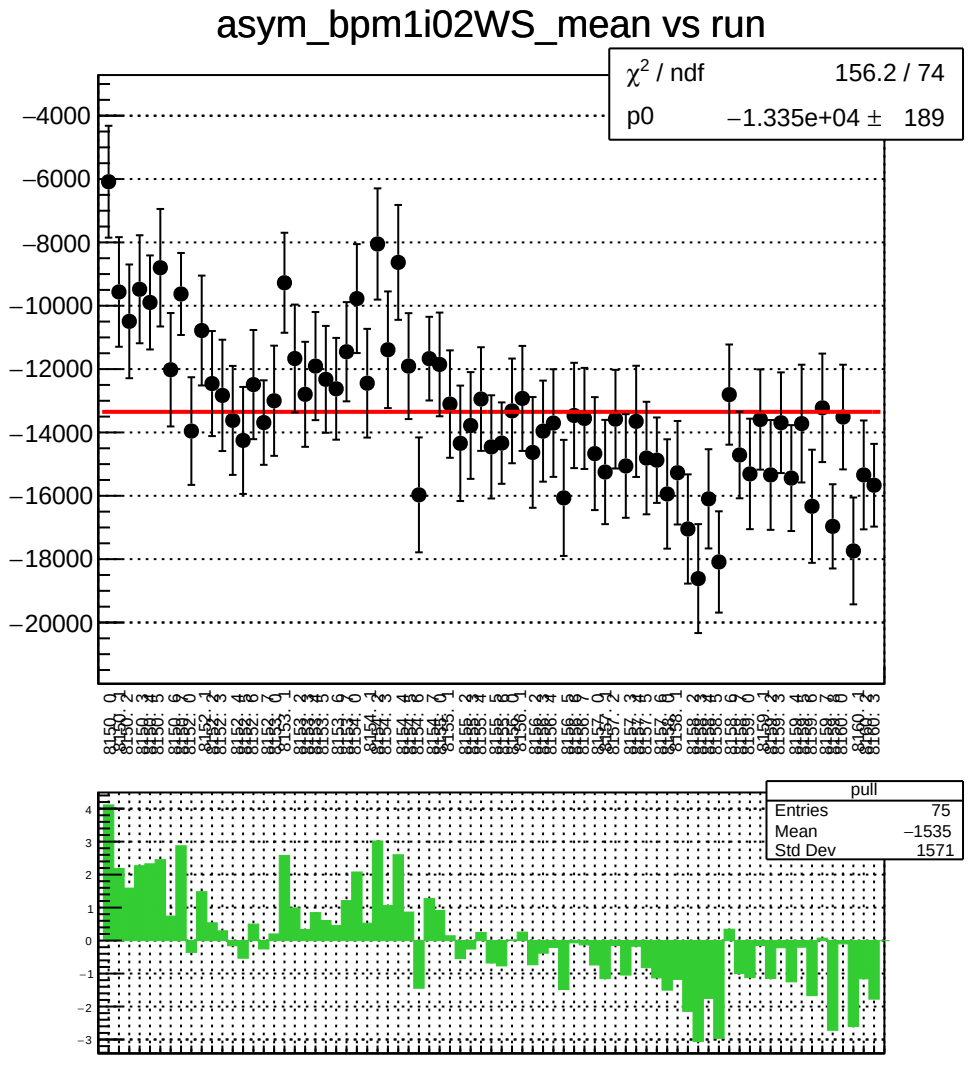

pull1D
Entries 75
Mean 0.003855
Std Dev 2.486

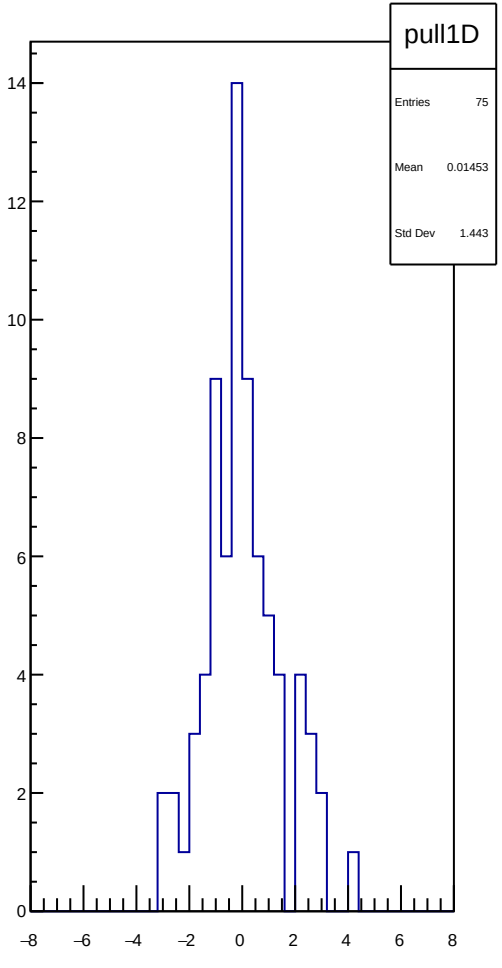

asym_bpm0i05WS_rms vs run
χ² / ndf 3559 / 74
p0 183.9 ± 0.1532
210
200
190
180
170
160

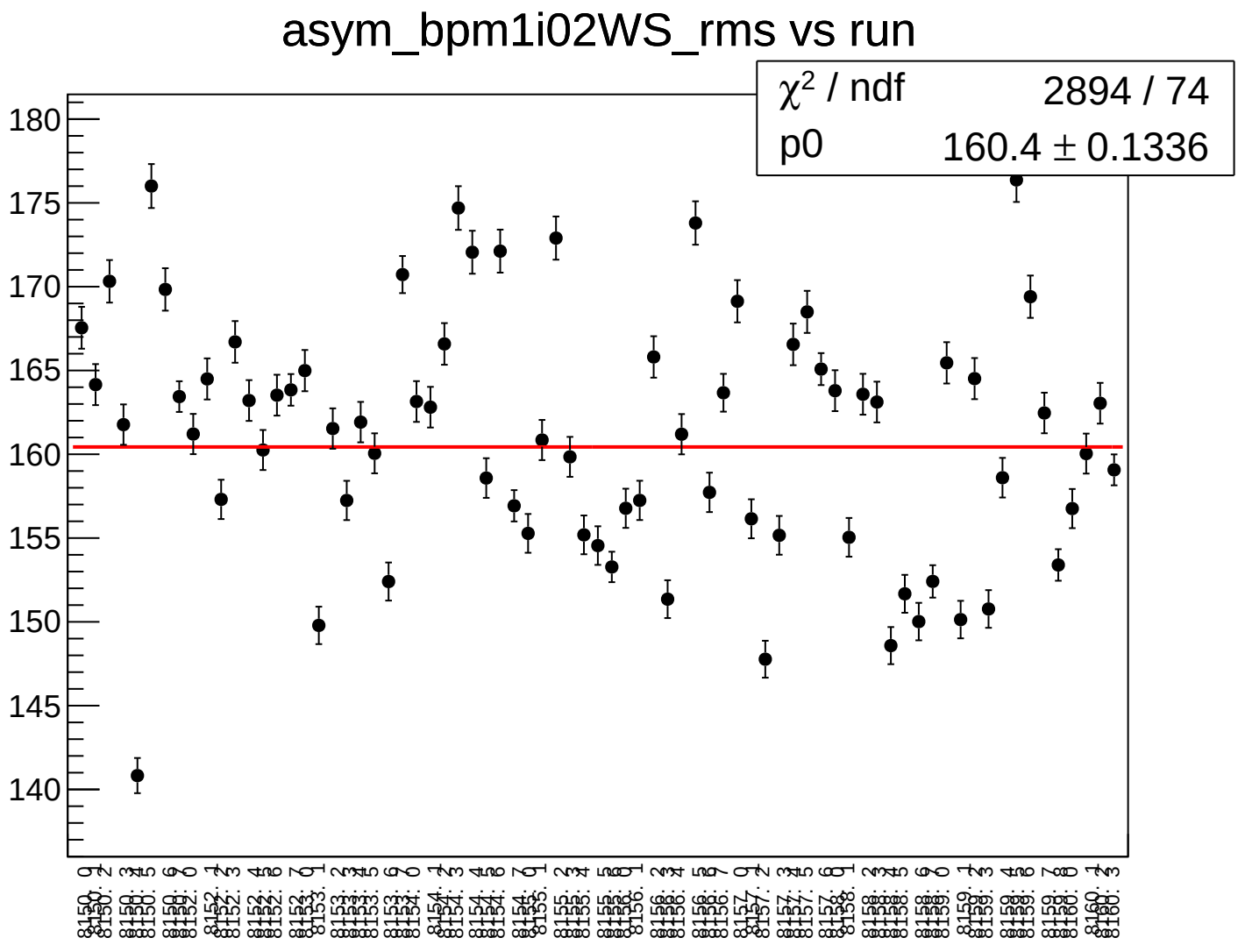

asym_bpm0i07WS_mean vs run
χ² / ndf 88.22 / 74
p0 2893 ± 1788
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −324
Std Dev 350.2
3
2
1
0
−1
−2

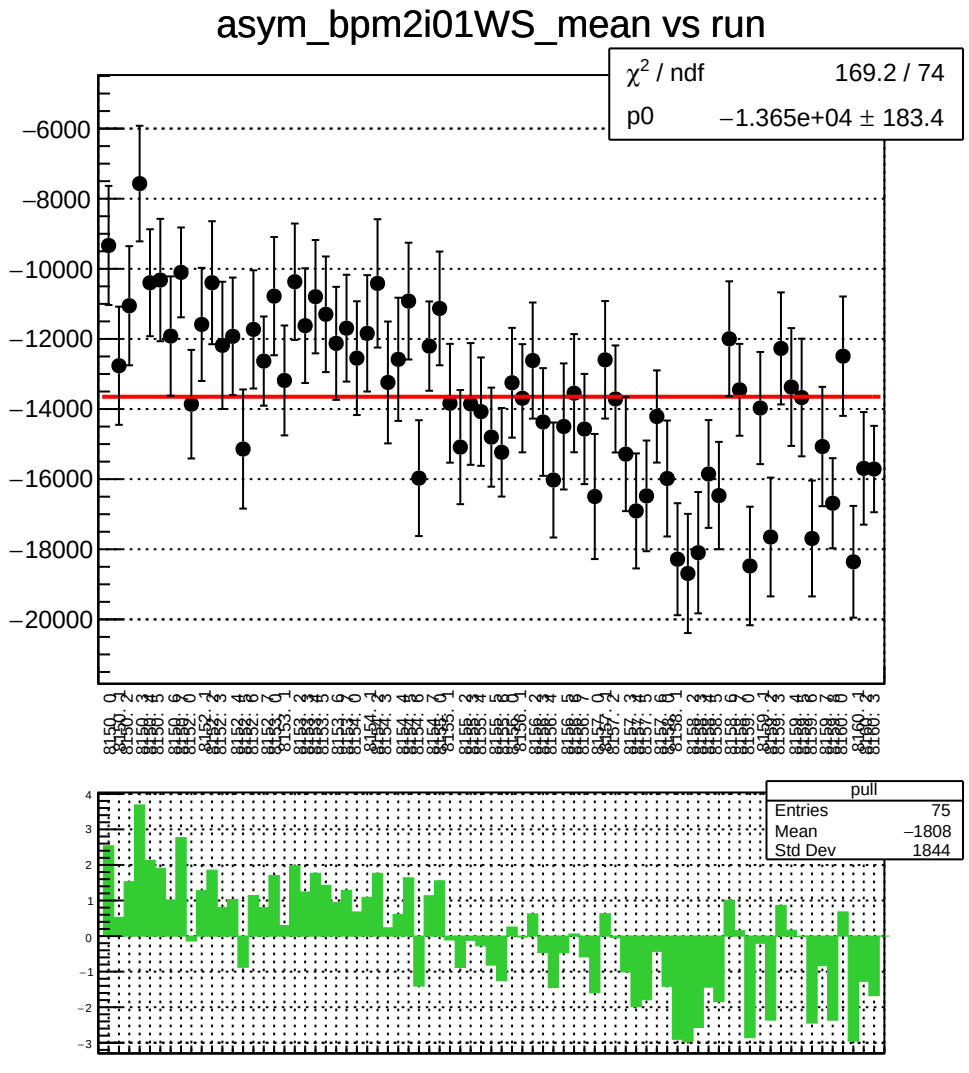

pull1D
Entries 75
Mean 0.001304
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

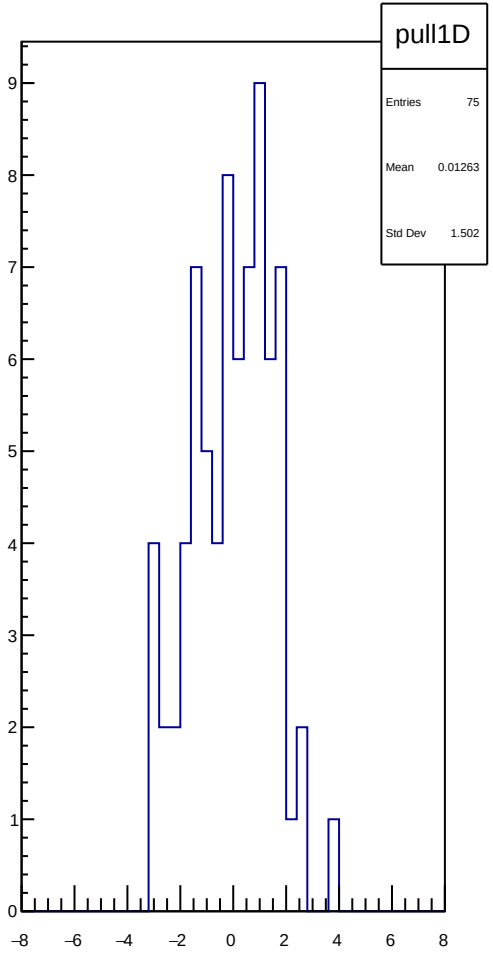

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.756e+04 / 74
p0 1510 ± 1.264
2000
1800
1600
1400
1200

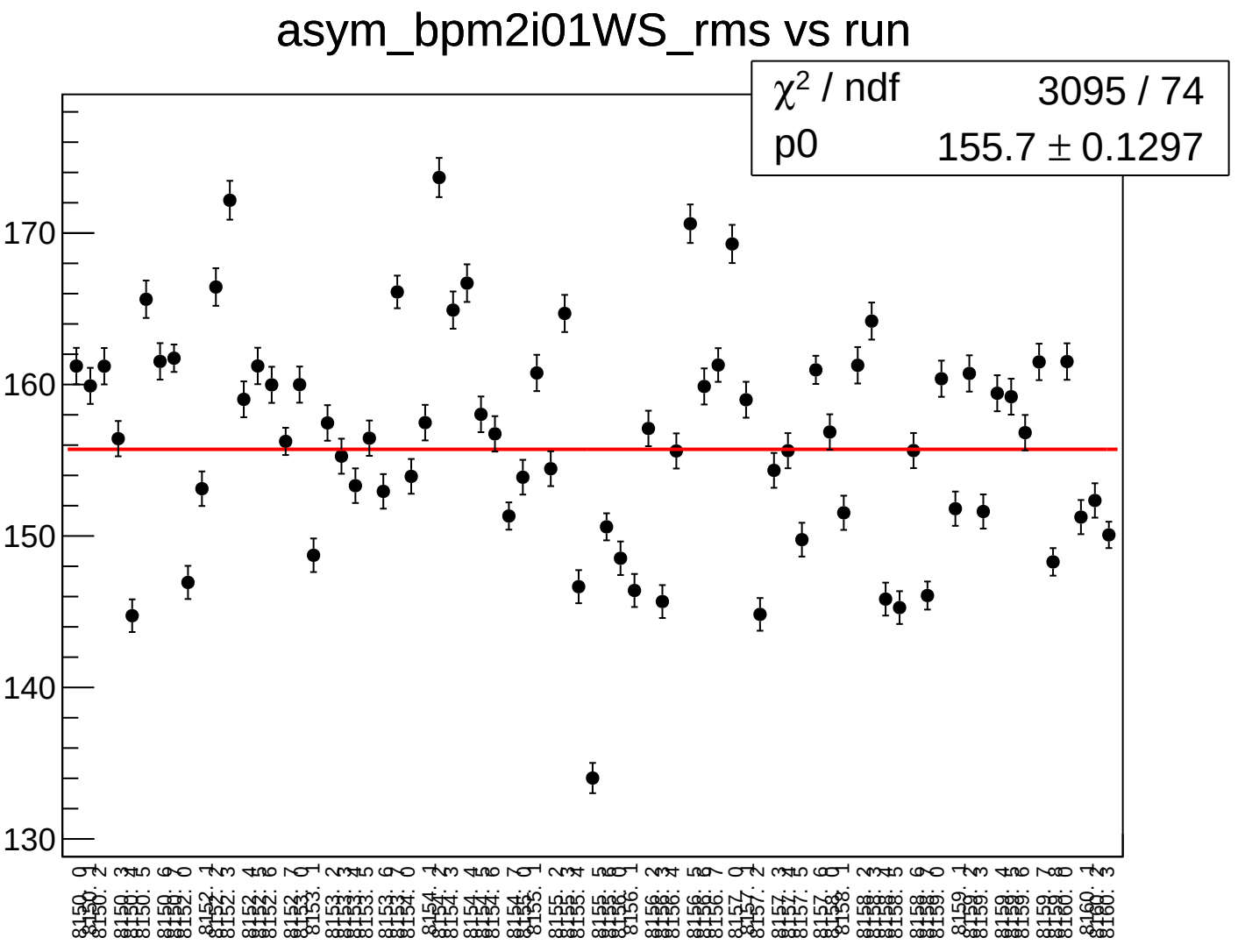

asym_bpm1i02WS_mean vs run
χ² / ndf 156.2 / 74
p0 −1.335e+04 ± 189
pull
Entries 75
Mean −1535
Std Dev 1571

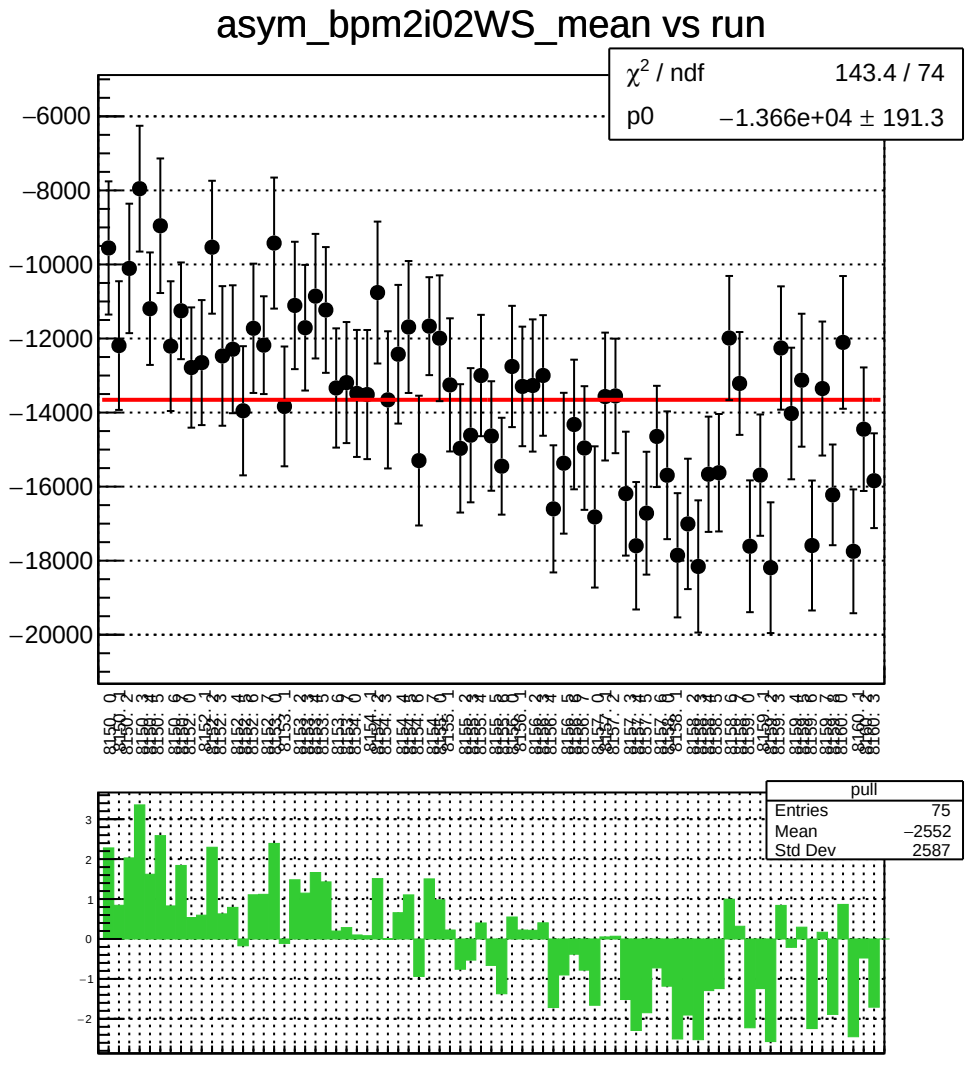

pull1D
Entries 75
Mean 0.01453
Std Dev 1.443

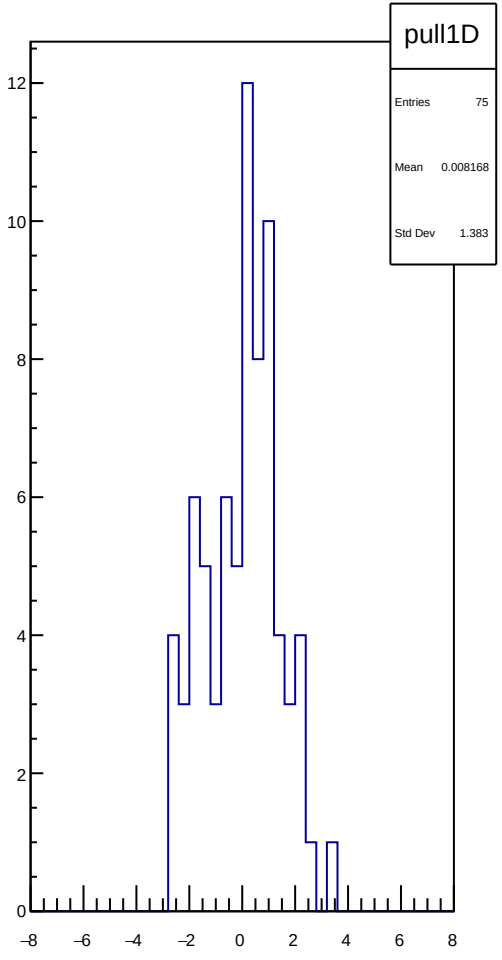

asym_bpm1i02WS_rms vs run
χ² / ndf 2894 / 74
p0 160.4 ± 0.1336
180
175
170
165
160
155
150
145
140

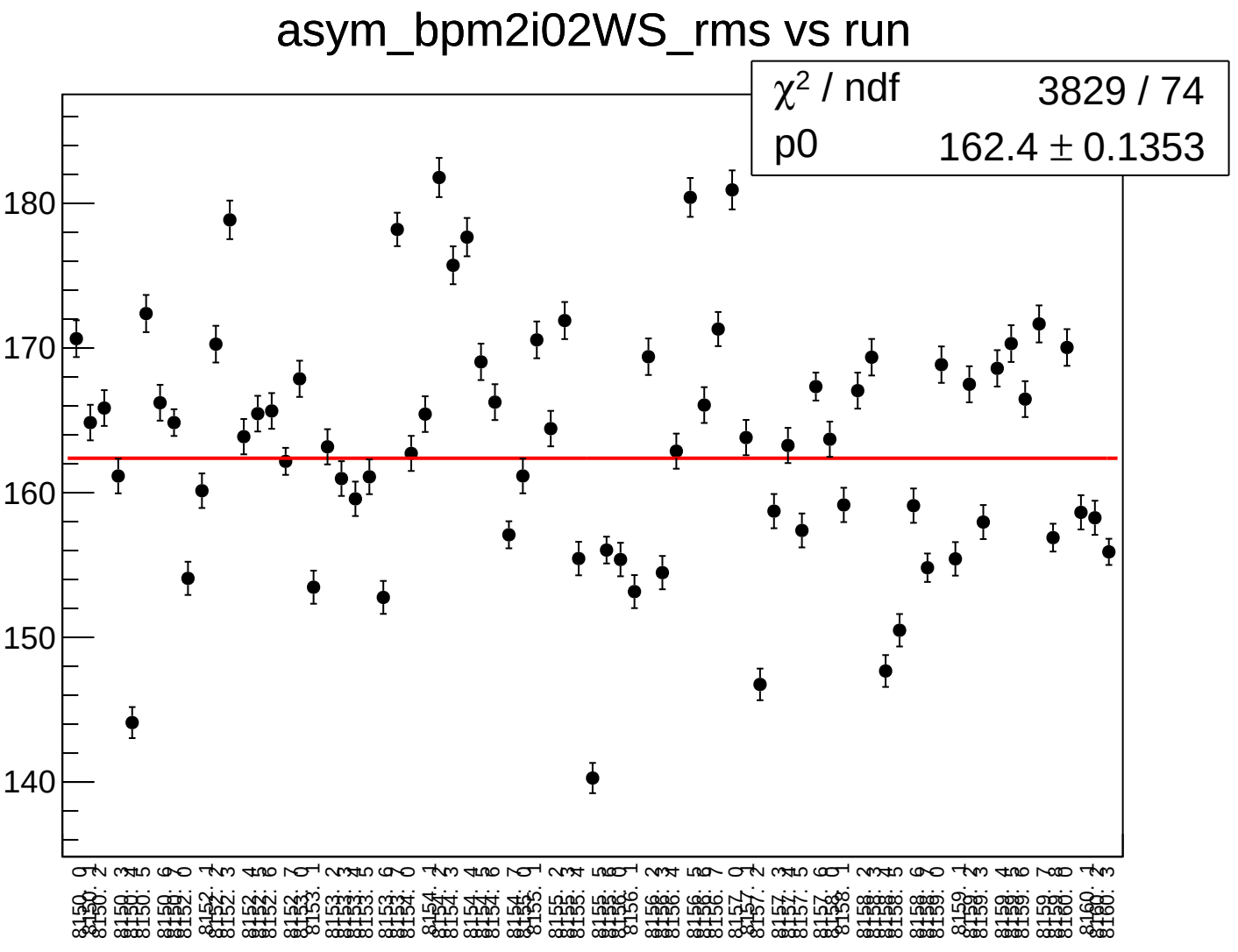

asym_bpm2i01WS_mean vs run
χ² / ndf 169.2 / 74
p0 −1.365e+04 ± 183.4
pull
Entries 75
Mean −1808
Std Dev 1844

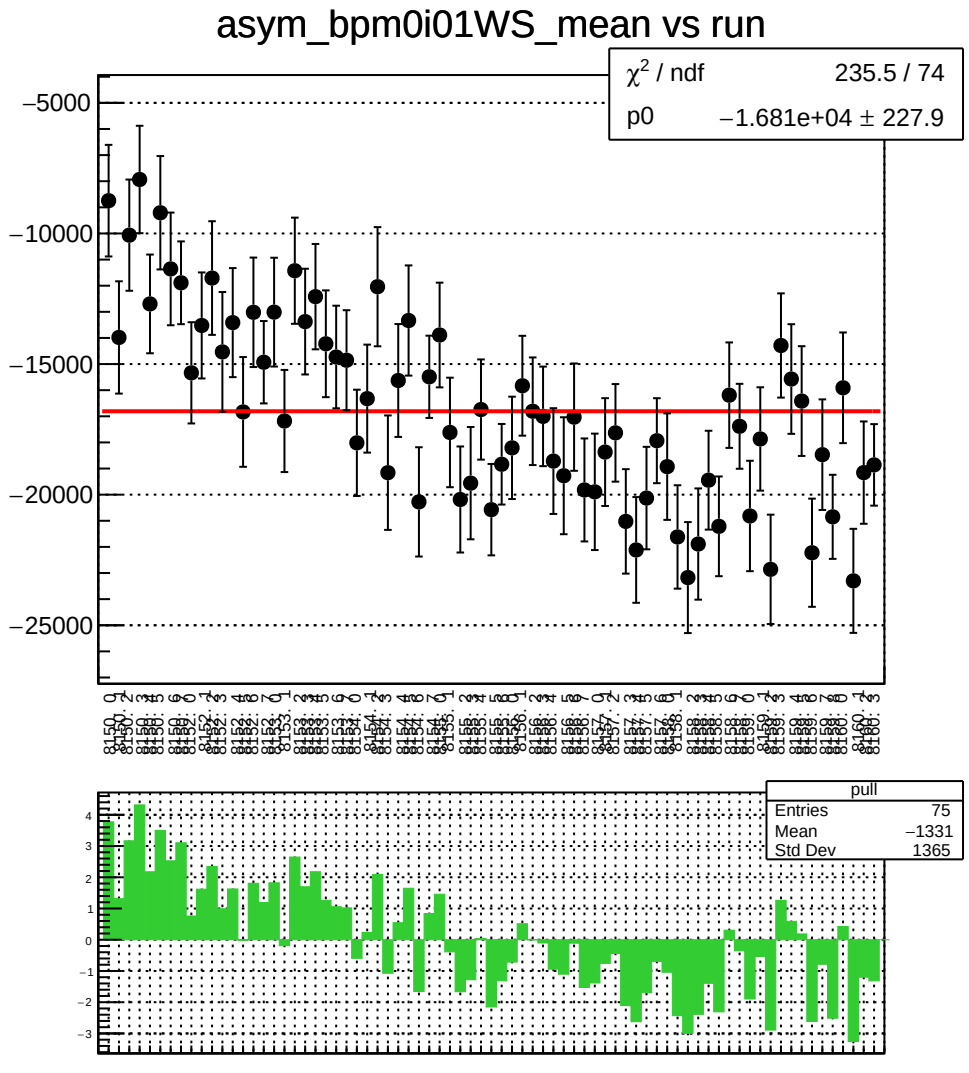

pull1D
Entries 75
Mean 0.01263
Std Dev 1.502

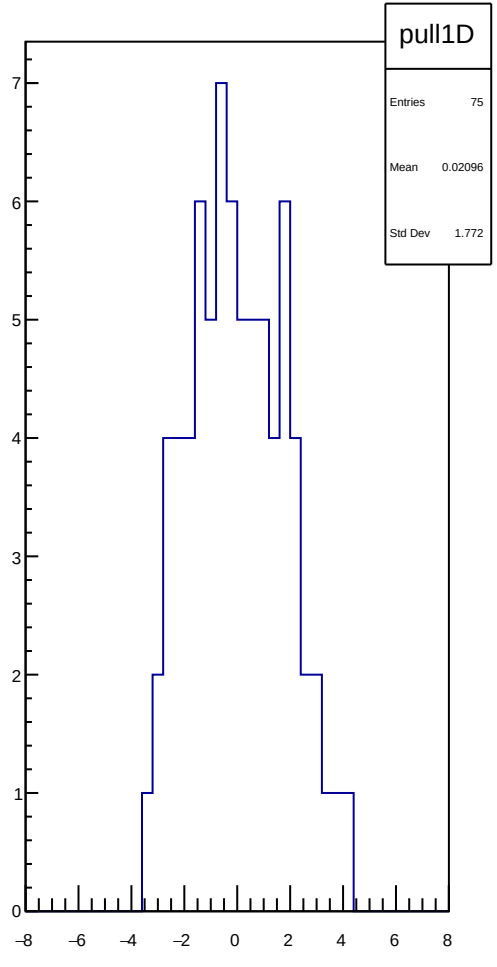

asym_bpm2i01WS_rms vs run
χ² / ndf 3095 / 74
p0 155.7 ± 0.1297
170
160
150
140
130

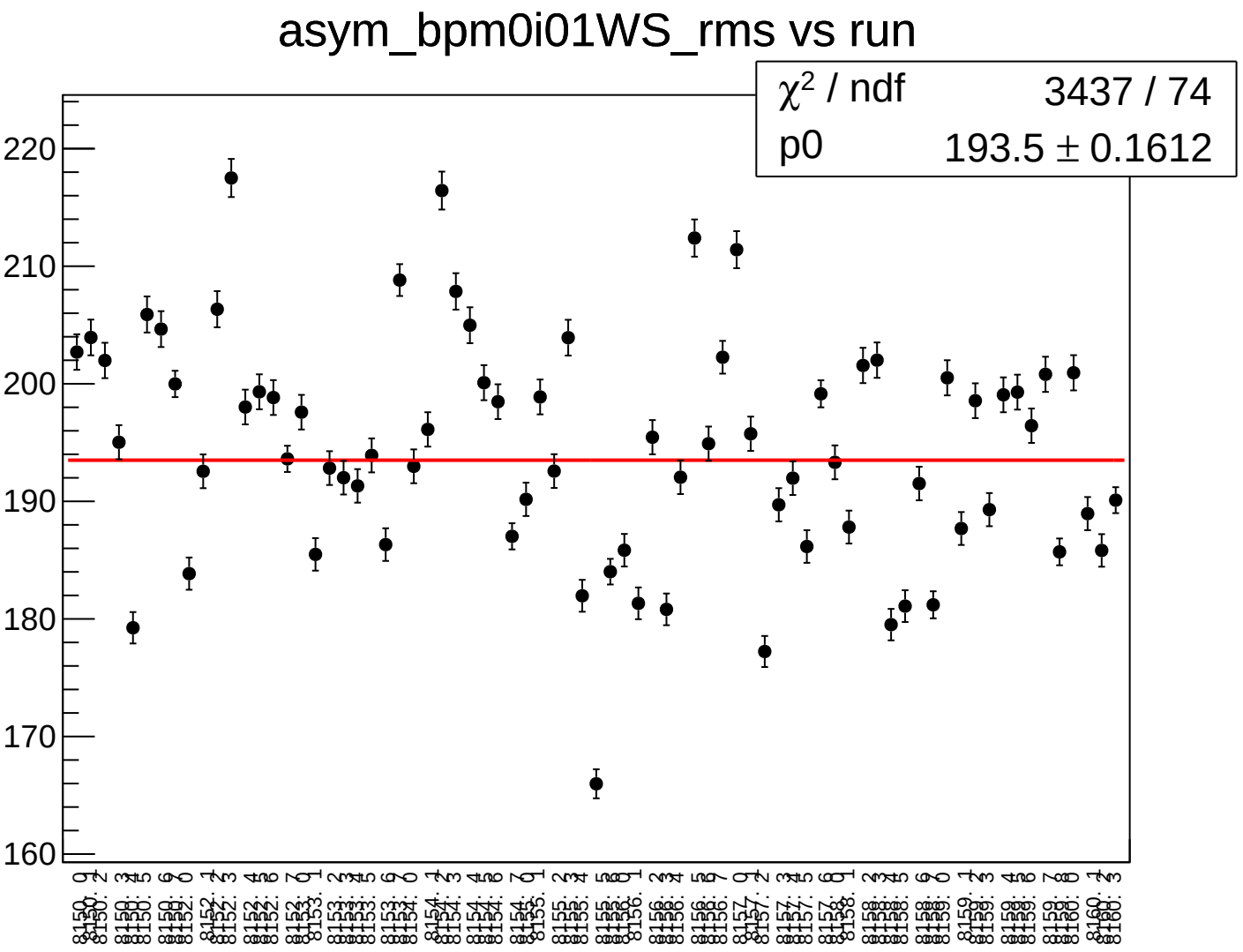

asym_bpm2i02WS_mean vs run
χ² / ndf 143.4 / 74
p0 −1.366e+04 ± 191.3
pull
Entries 75
Mean −2552
Std Dev 2587

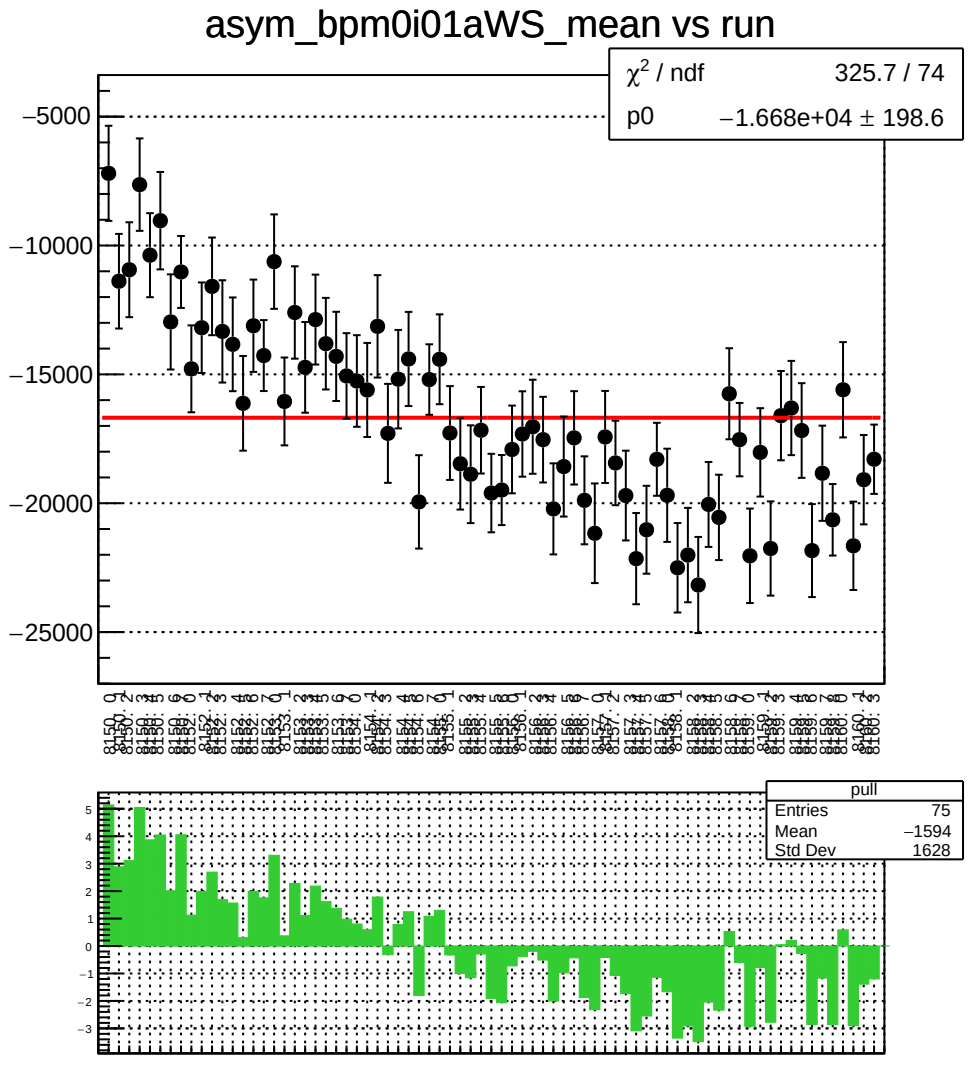

pull1D
Entries 75
Mean 0.008168
Std Dev 1.383

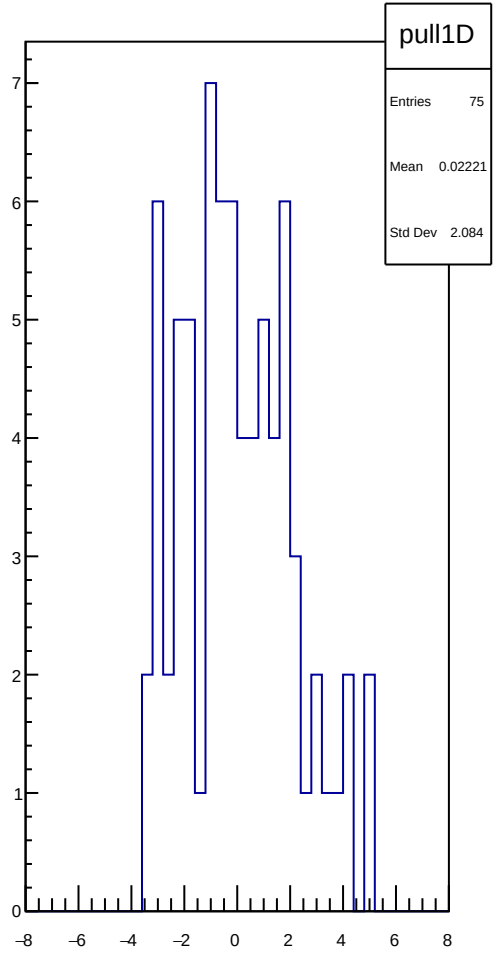

asym_bpm2i02WS_rms vs run
χ^2 / ndf 3829 / 74
p0 162.4 ± 0.1353
180
170
160
150
140

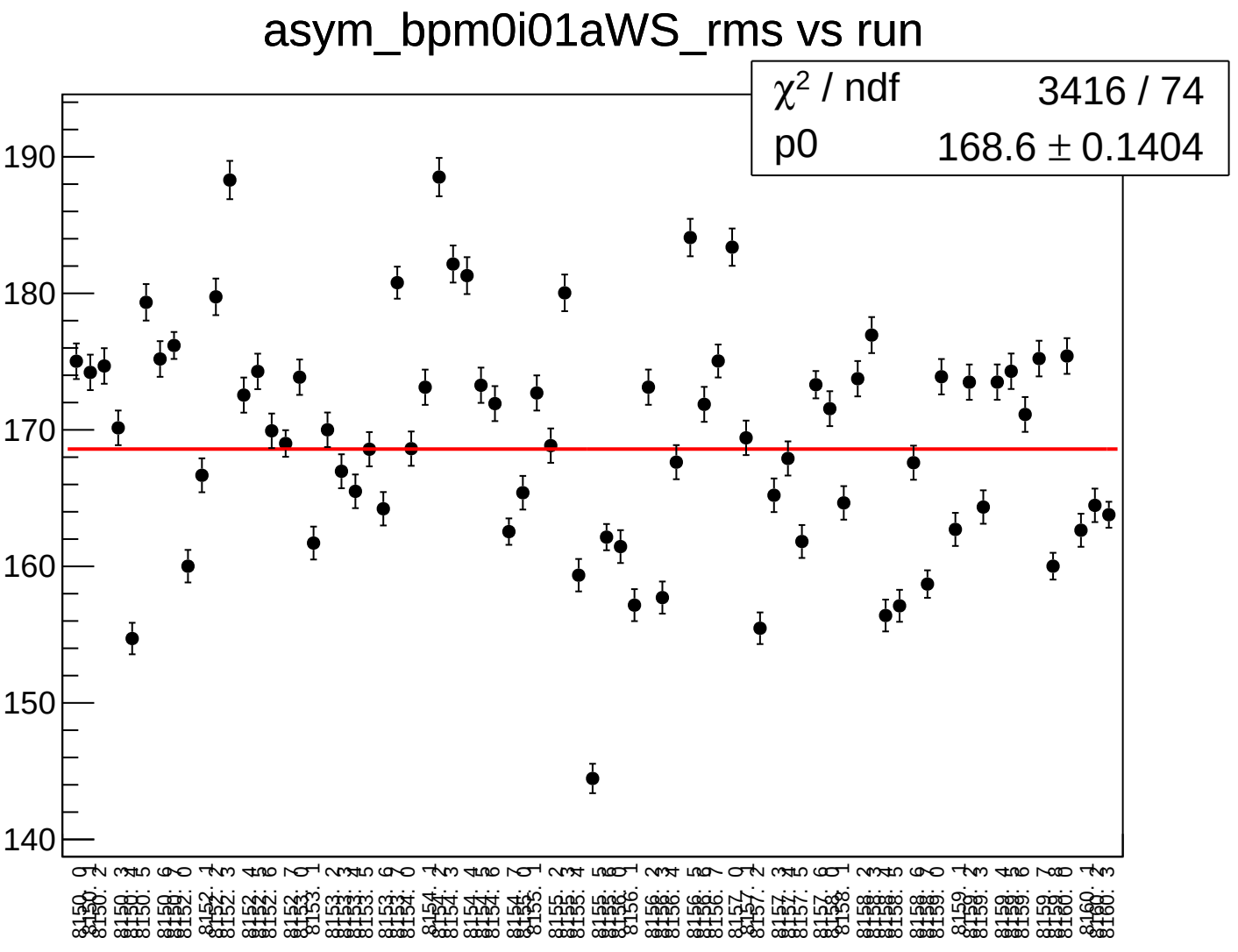

asym_bpm0i01WS_mean vs run
χ² / ndf 235.5 / 74
p0 −1.681e+04 ± 227.9
−5000
−10000
−15000
−20000
−25000
pull
Entries 75
Mean −1331
Std Dev 1365

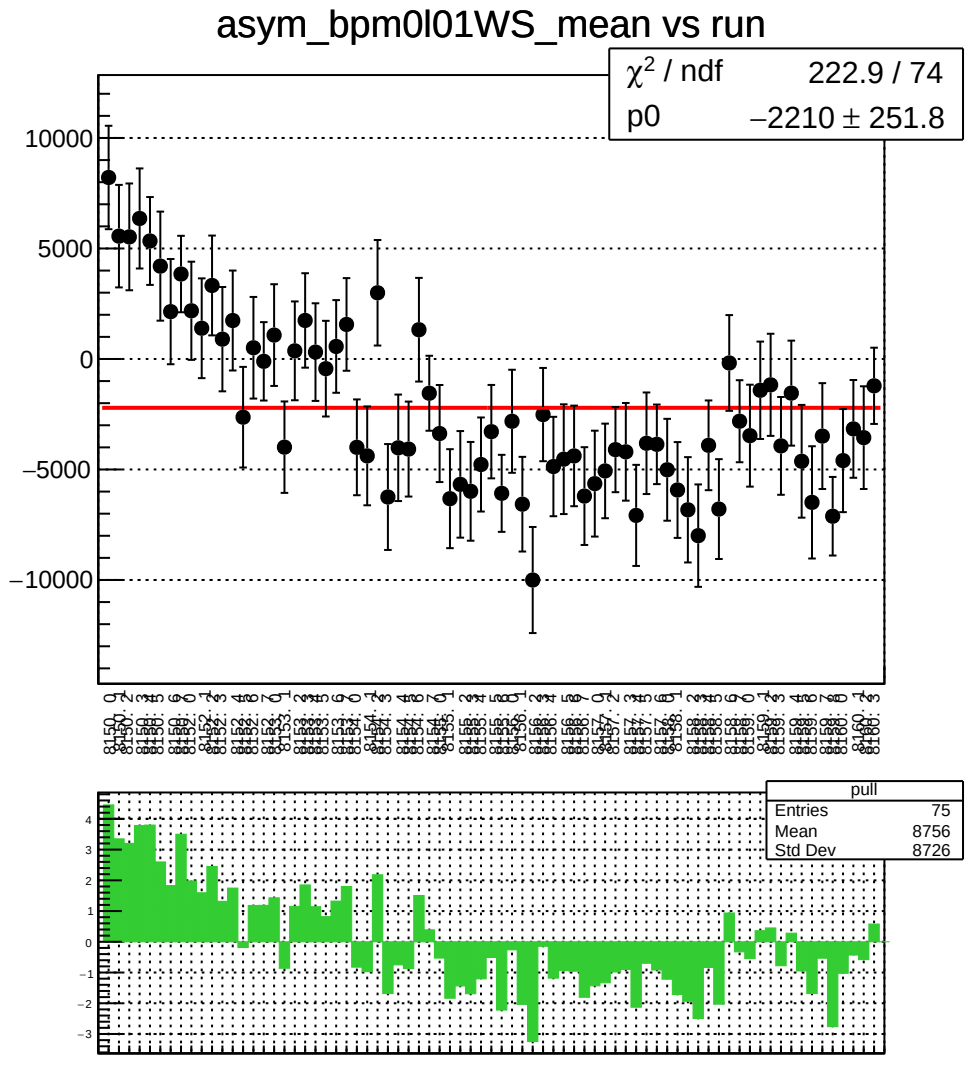

pull1D
Entries 75
Mean 0.02096
Std Dev 1.772

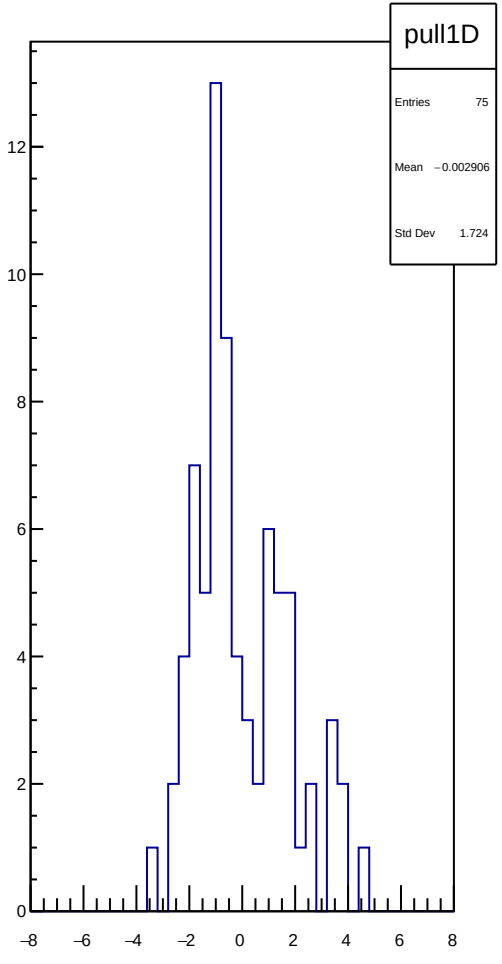

asym_bpm0i01WS_rms vs run
χ² / ndf 3437 / 74
p0 193.5 ± 0.1612
220
210
200
190
180
170
160

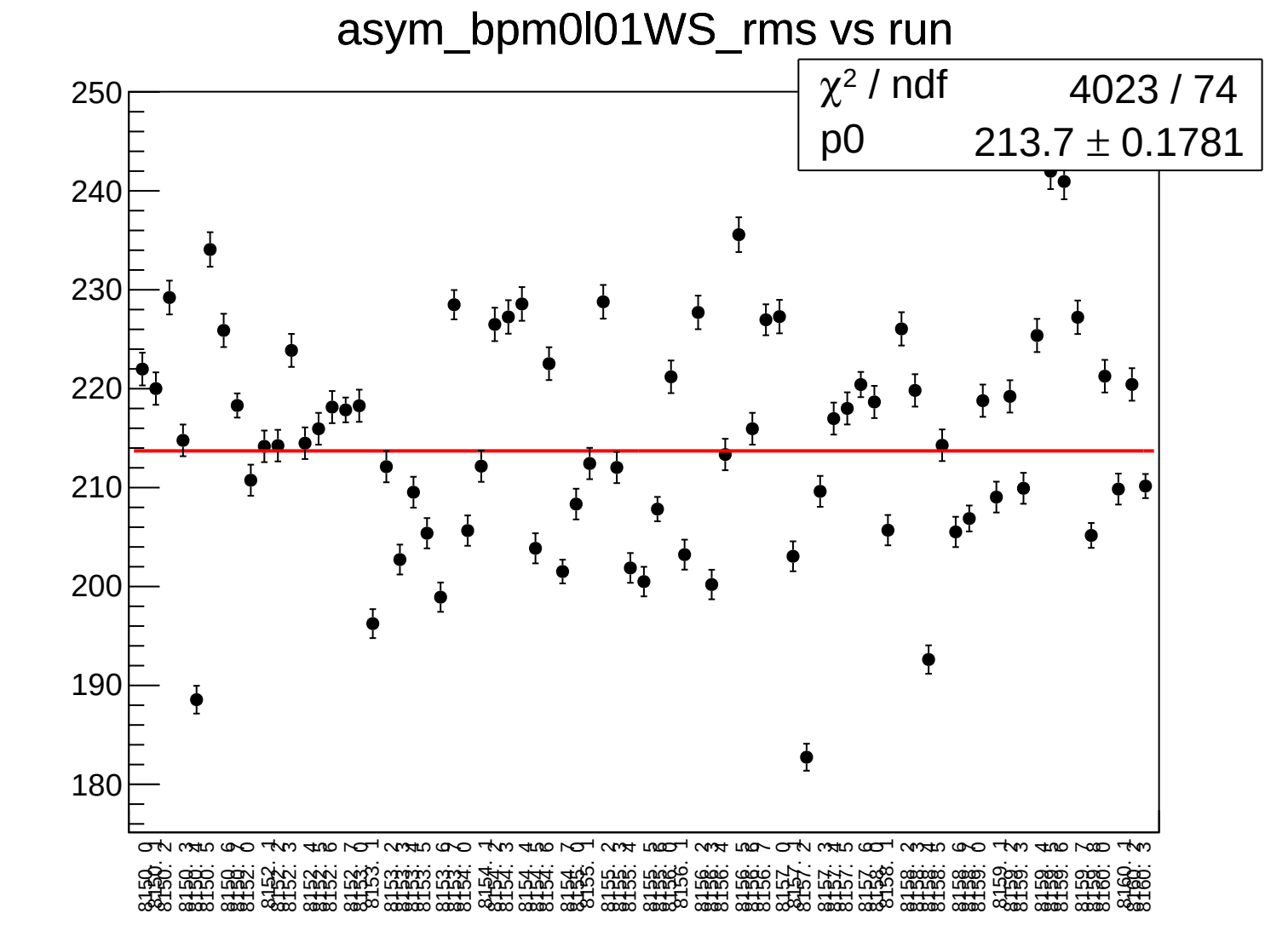

asym_bpm0i01aWS_mean vs run
χ² / ndf 325.7 / 74
p0 −1.668e+04 ± 198.6
−5000
−10000
−15000
−20000
−25000
pull
Entries 75
Mean −1594
Std Dev 1628

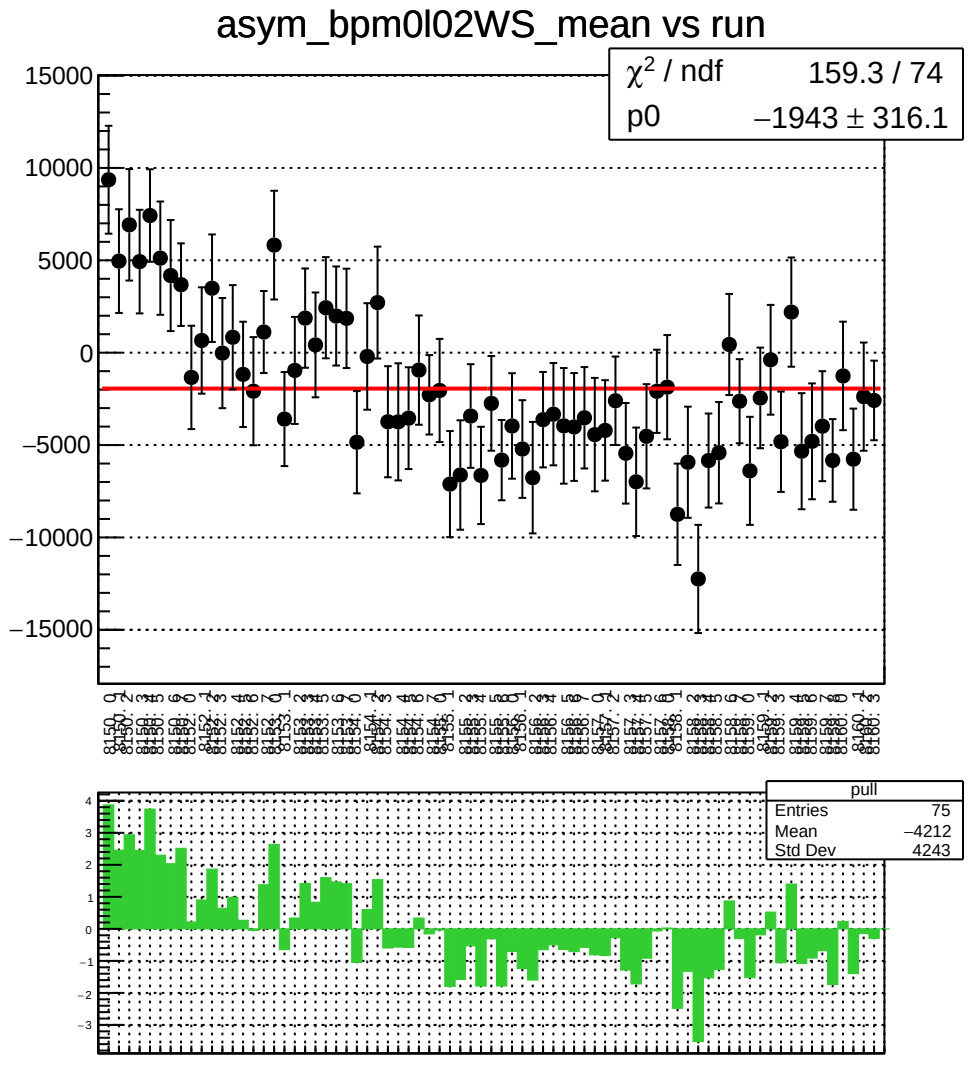

pull1D
Entries 75
Mean 0.02221
Std Dev 2.084

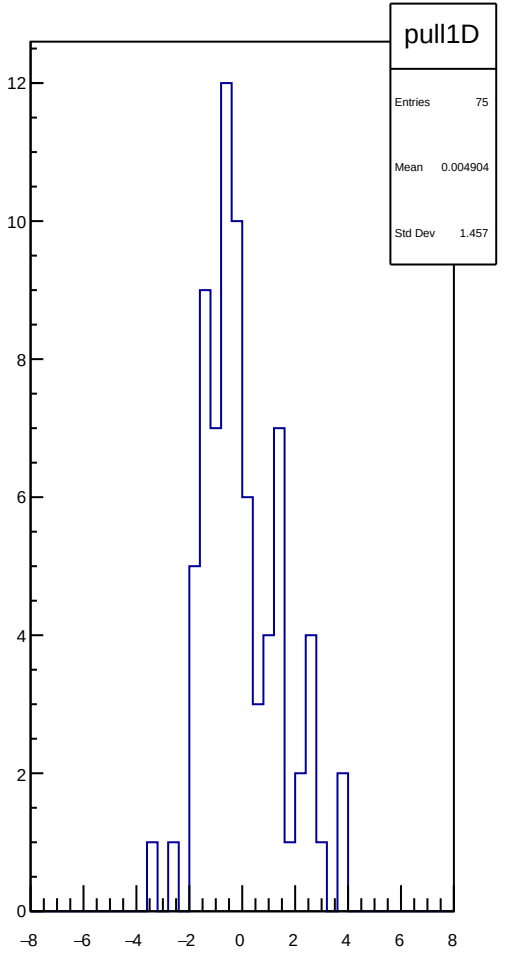

asym_bpm0i01aWS_rms vs run
χ² / ndf 3416 / 74
p0 168.6 ± 0.1404
190
180
170
160
150
140

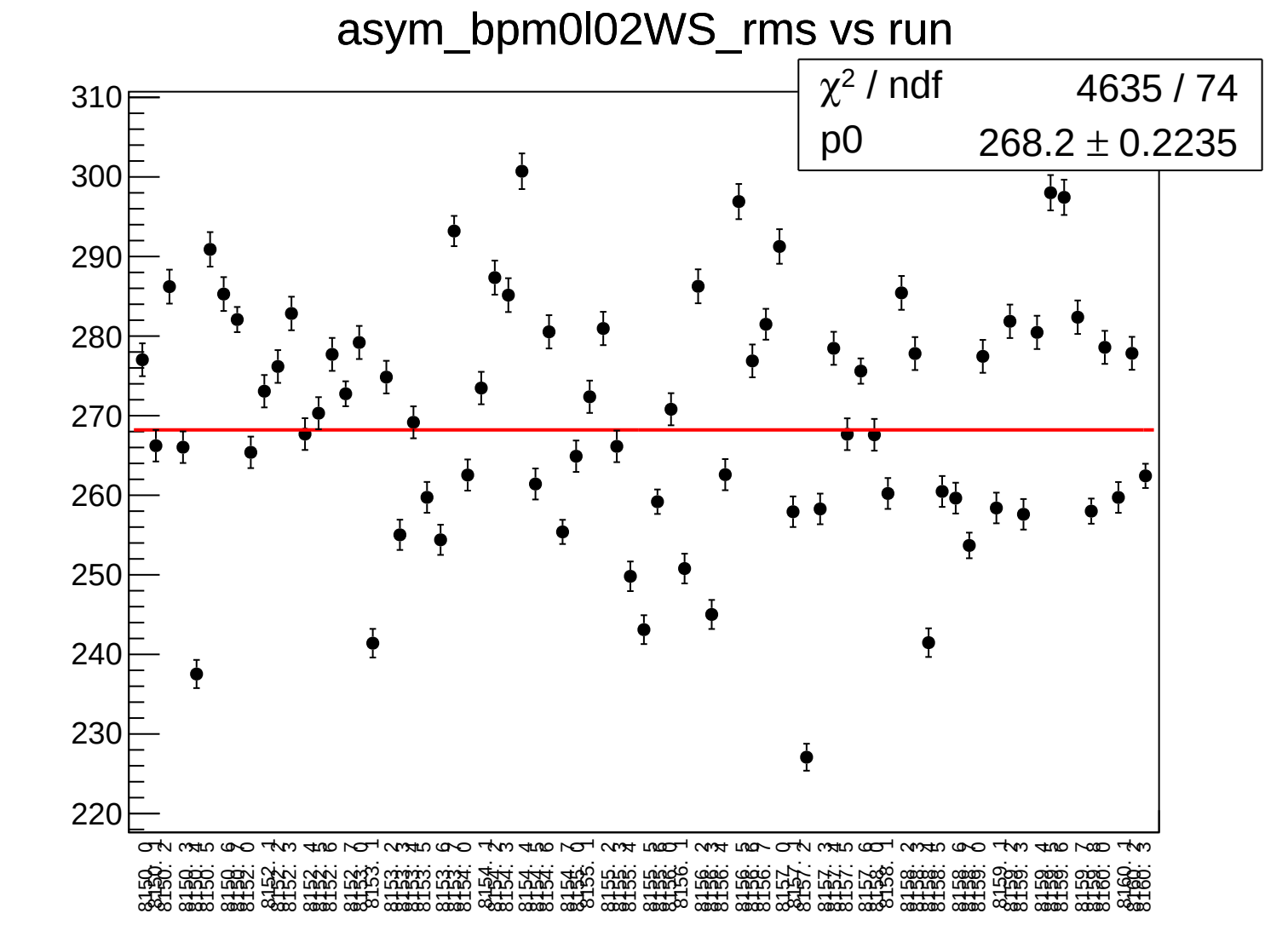

asym_bpm0l01WS_mean vs run
χ² / ndf 222.9 / 74
p0 −2210 ± 251.8
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 8756
Std Dev 8726

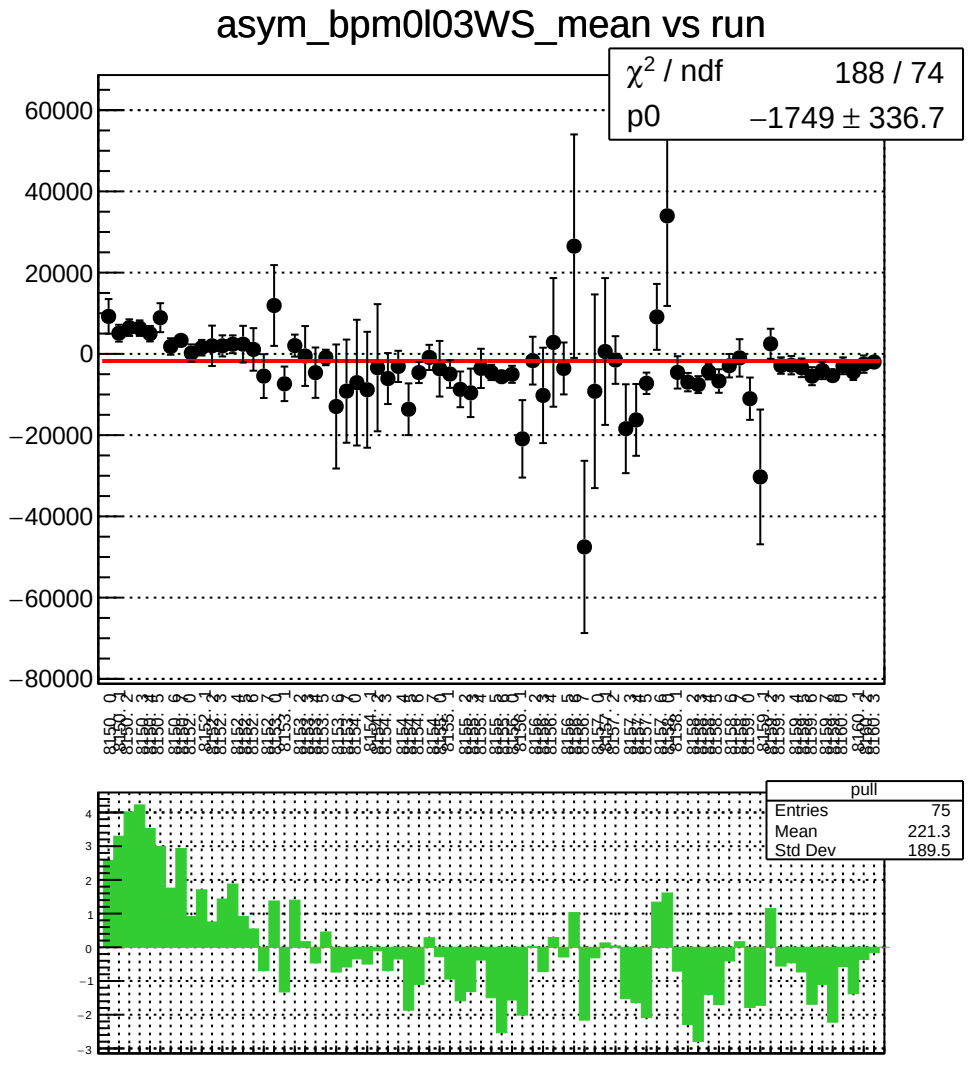

pull1D
Entries 75
Mean −0.002906
Std Dev 1.724
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

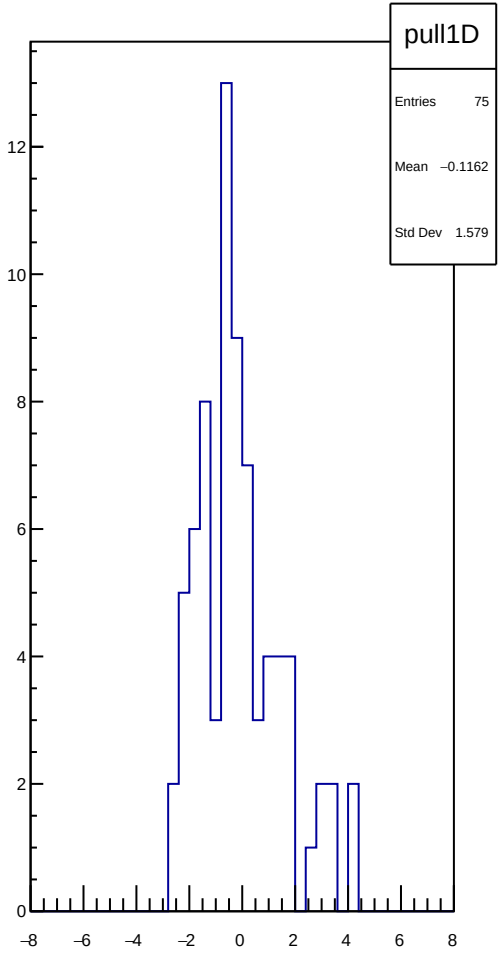

asym_bpm0l01WS_rms vs run
χ² / ndf 4023 / 74
p0 213.7 ± 0.1781
250
240
230
220
210
200
190
180

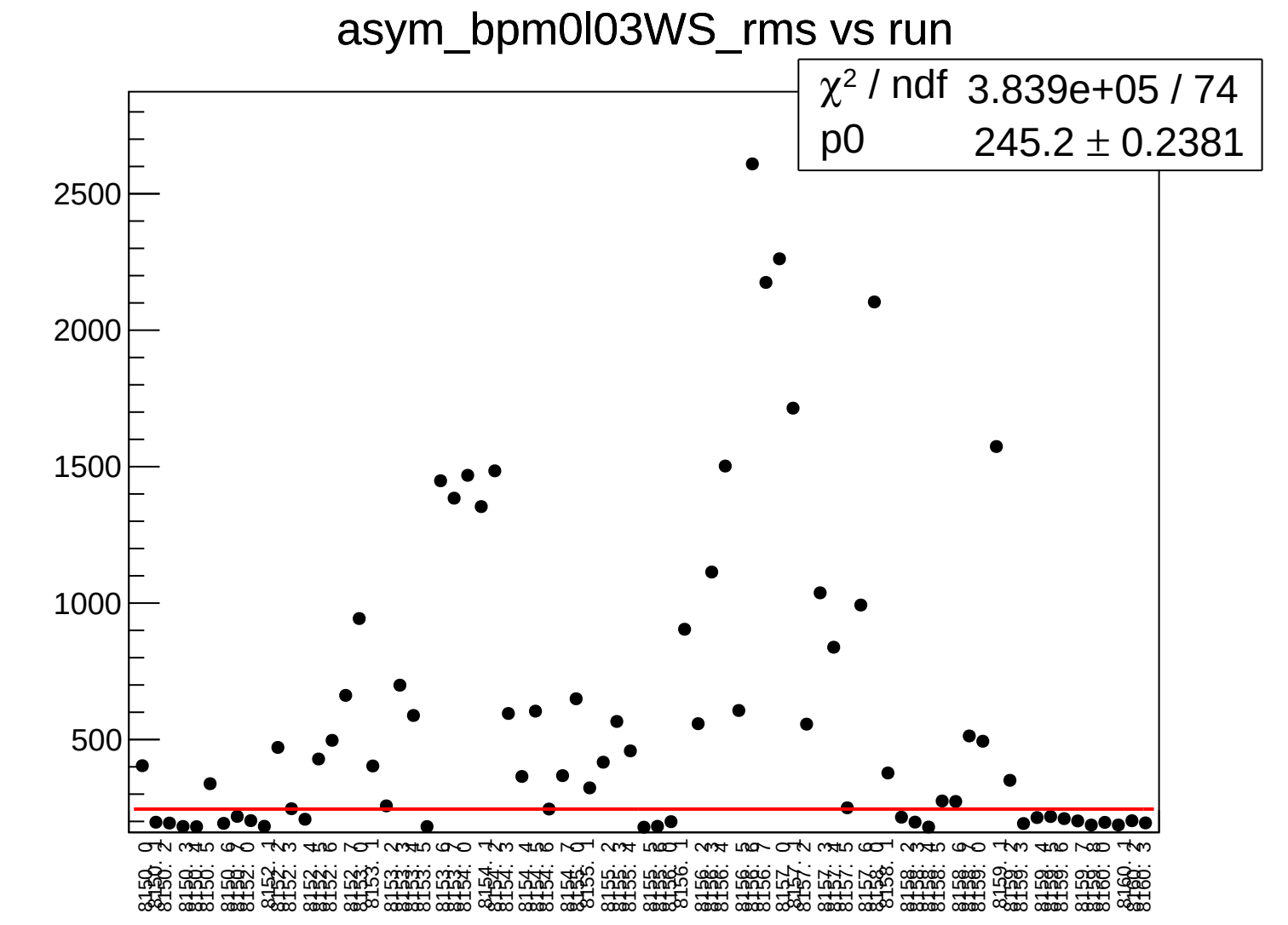

asym_bpm0l02WS_mean vs run
χ^2 / ndf 159.3 / 74
p0 −1943 ± 316.1
pull
Entries 75
Mean −4212
Std Dev 4243

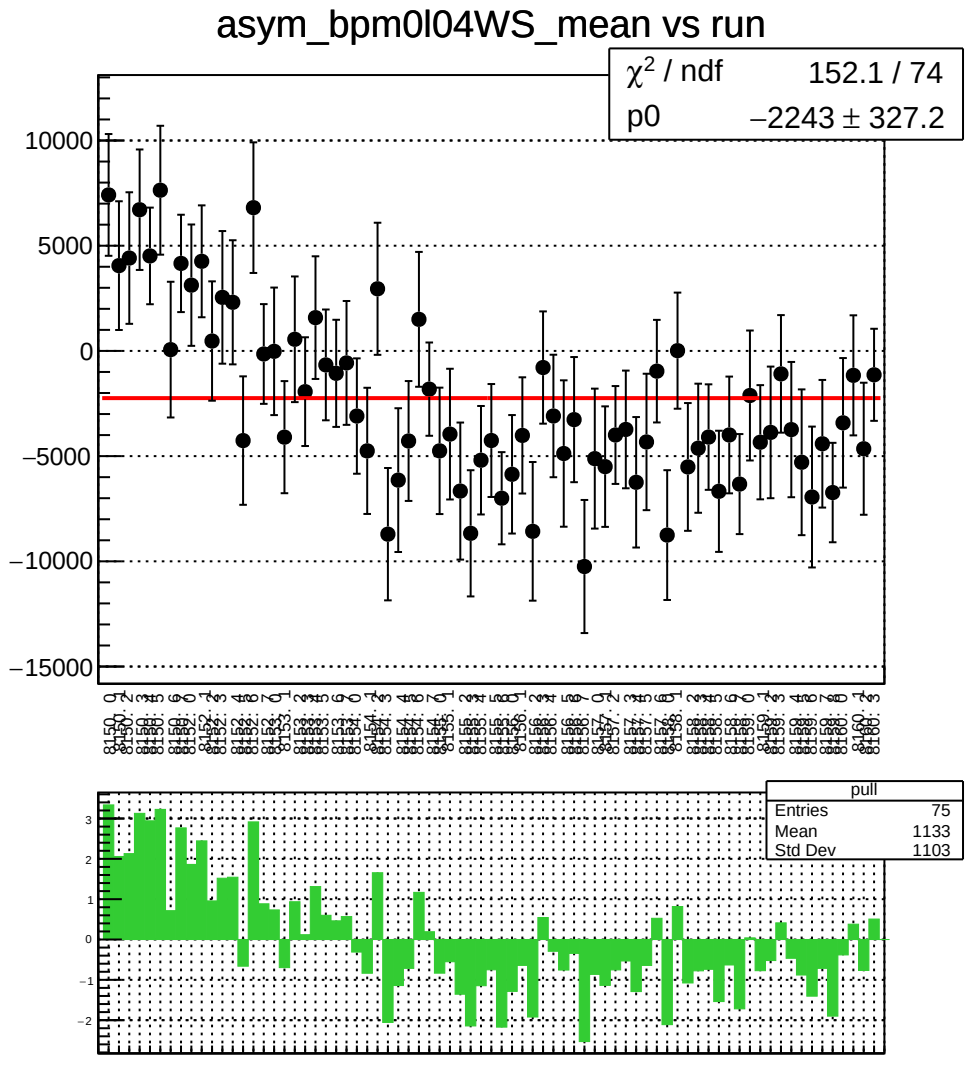

pull1D
Entries 75
Mean 0.004904
Std Dev 1.457

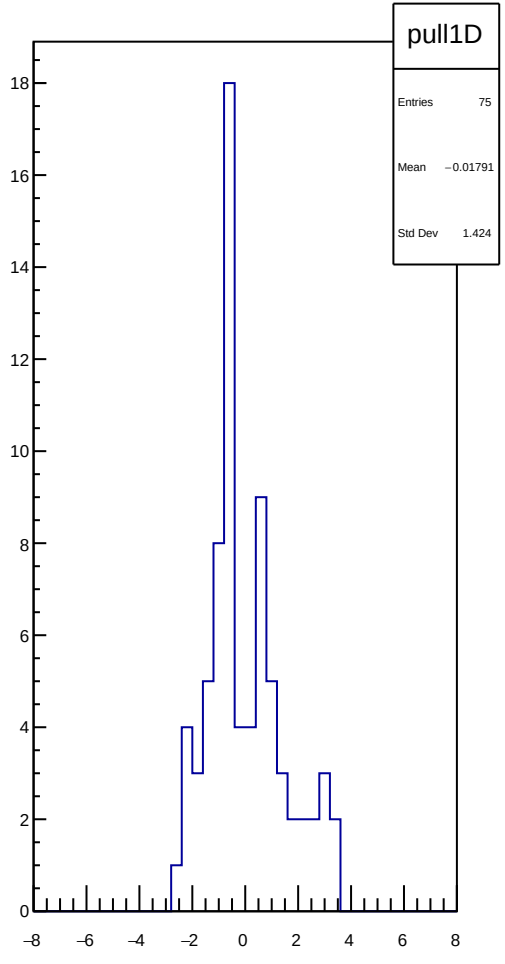

asym_bpm0l02WS_rms vs run
χ^2 / ndf 4635 / 74
p0 268.2 ± 0.2235
310
300
290
280
270
260
250
240
230
220

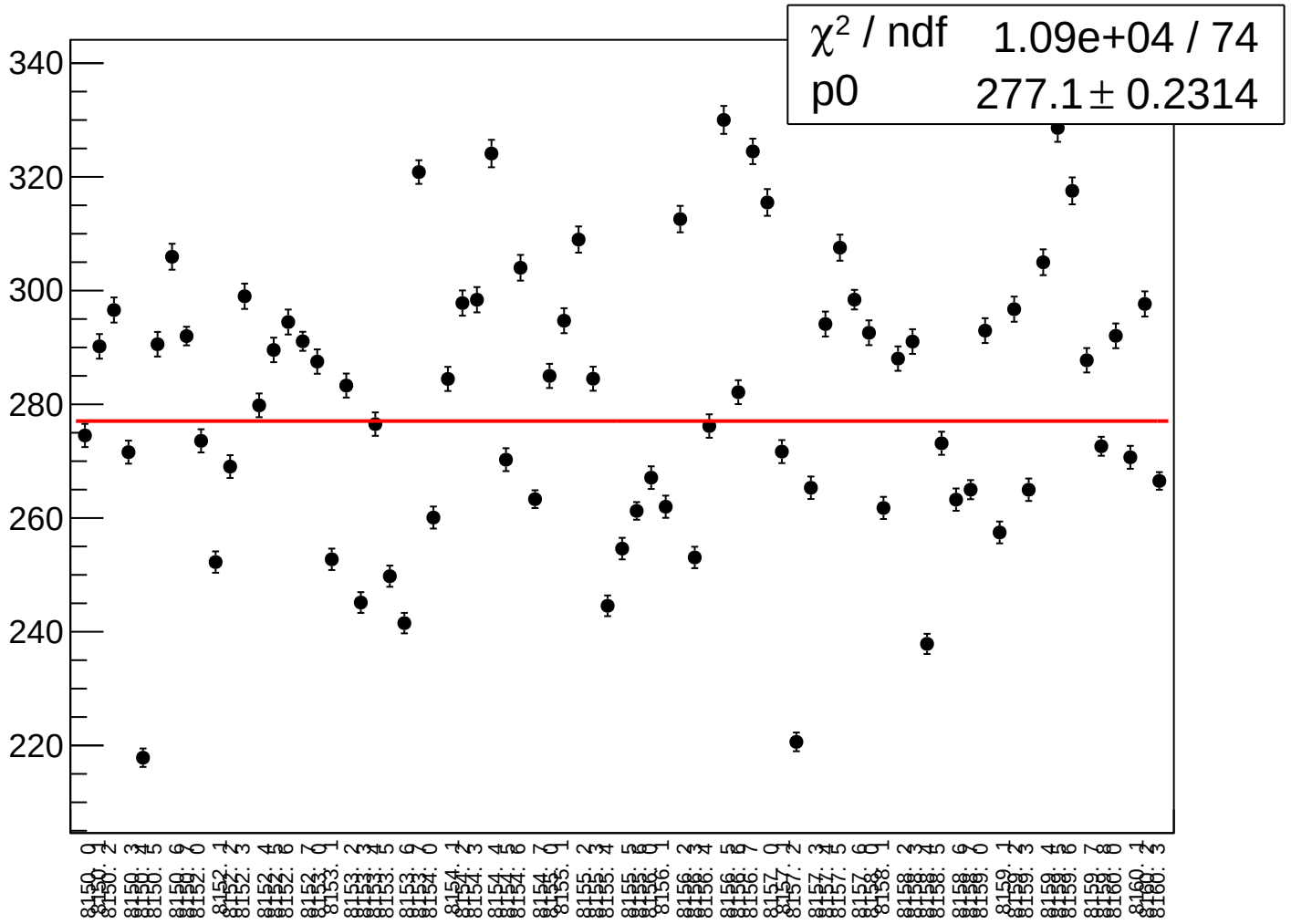

asym_bpm0l03WS_mean vs run
χ² / ndf 188 / 74
p0 −1749 ± 336.7
pull
Entries 75
Mean 221.3
Std Dev 189.5

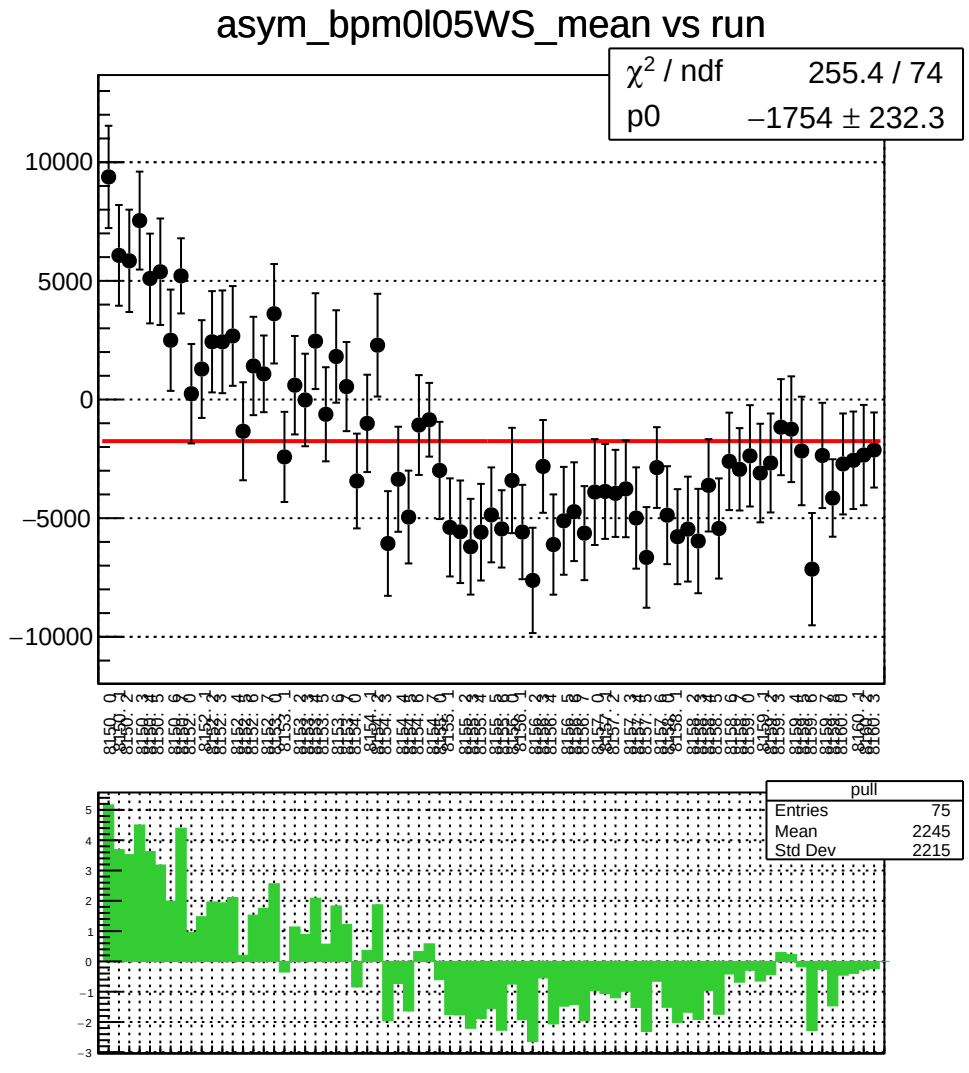

pull1D
Entries 75
Mean −0.1162
Std Dev 1.579

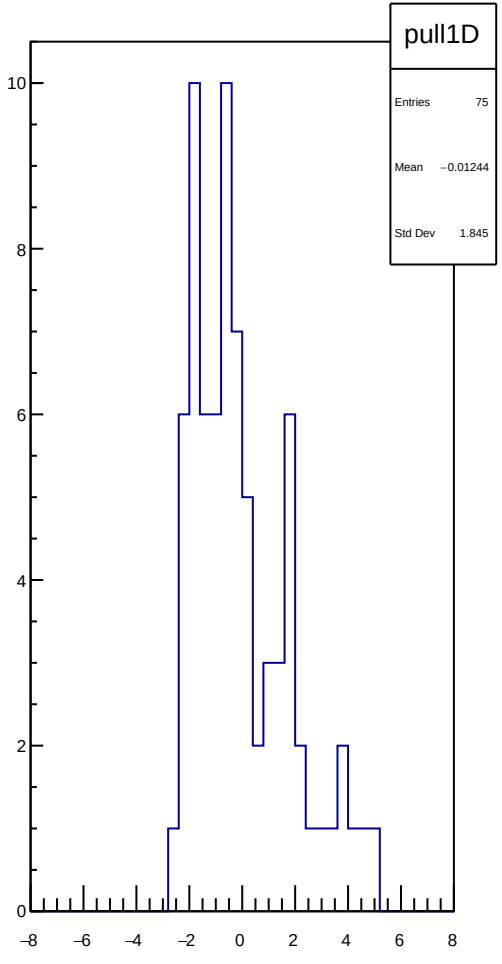

asym_bpm0l03WS_rms vs run
χ² / ndf 3.839e+05 / 74
p0 245.2 ± 0.2381
2500
2000
1500
1000
500

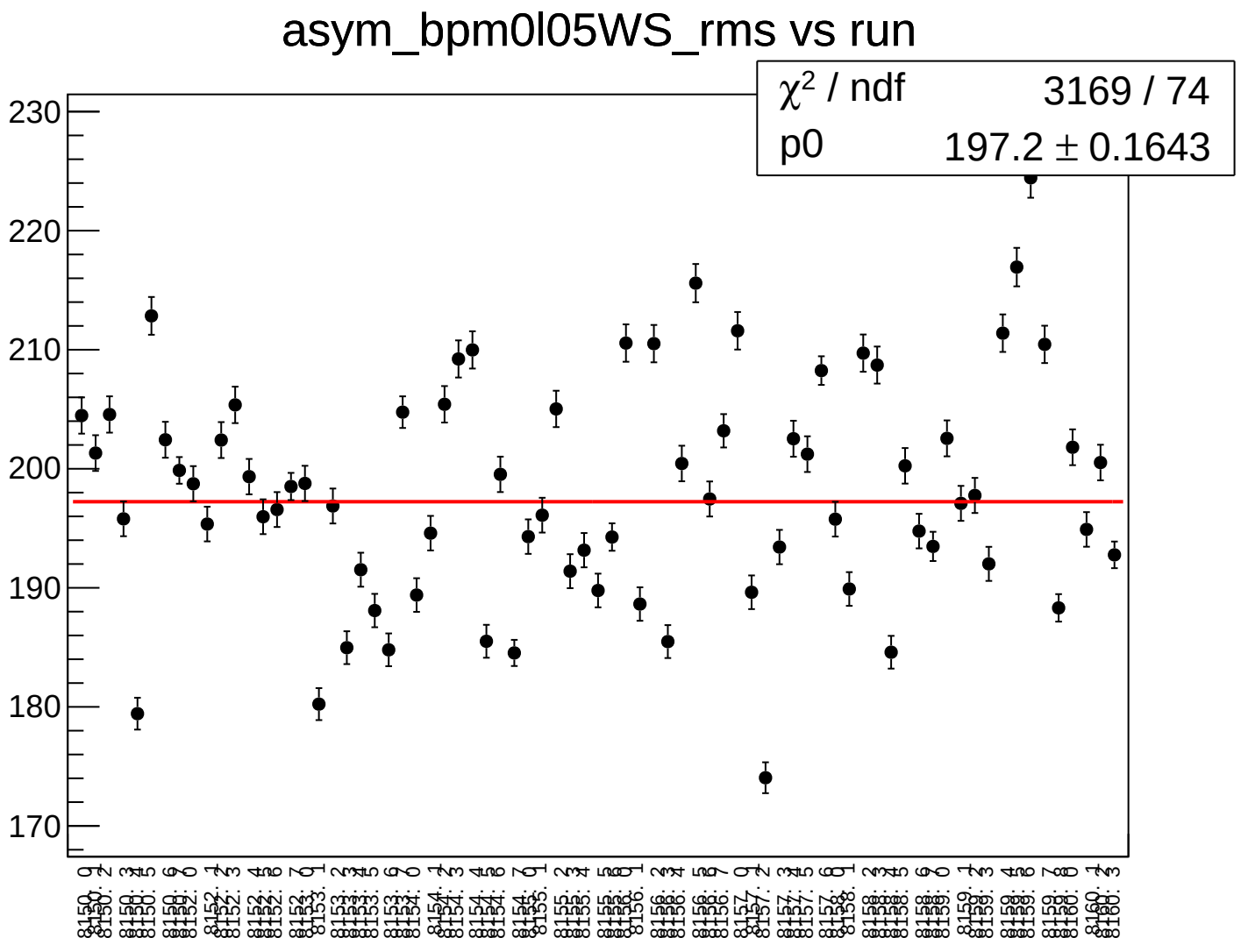

asym_bpm0l04WS_mean vs run
χ² / ndf 152.1 / 74
p0 −2243 ± 327.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean 1133
Std Dev 1103
3
2
1
0
−1
−2

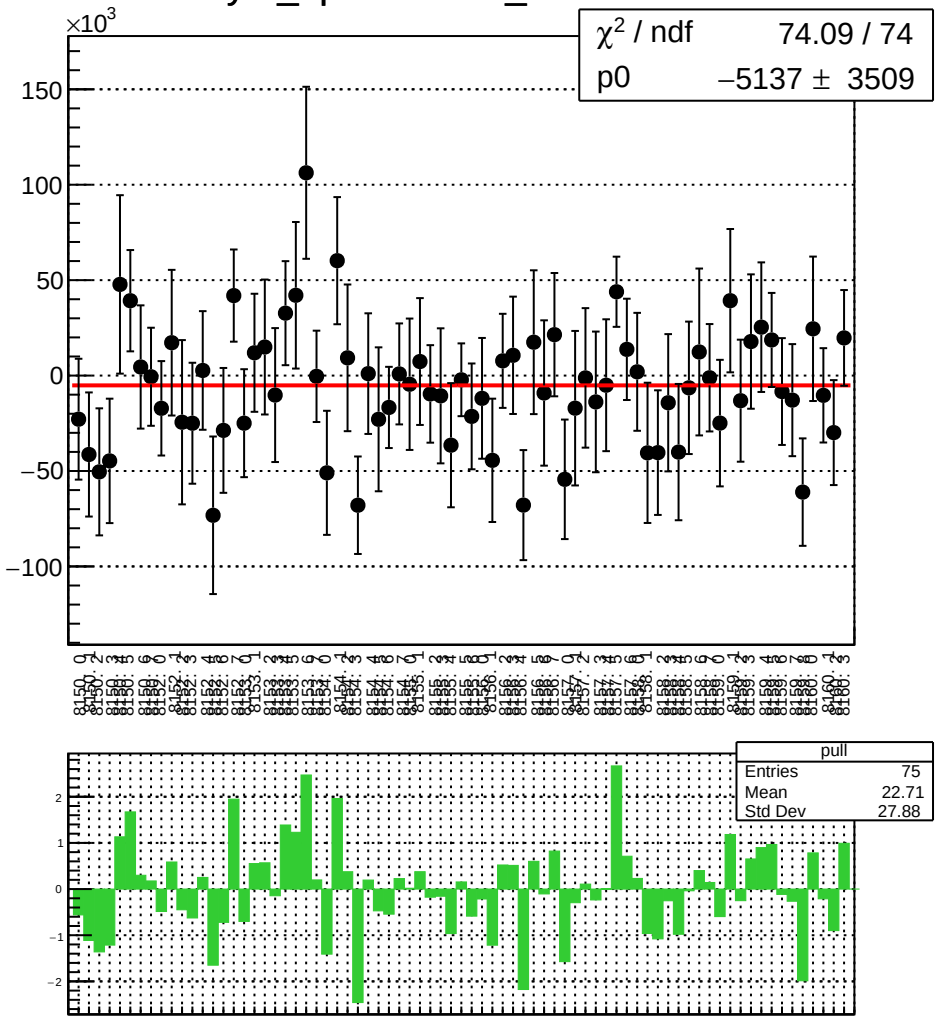

pull1D
Entries 75
Mean −0.01791
Std Dev 1.424
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

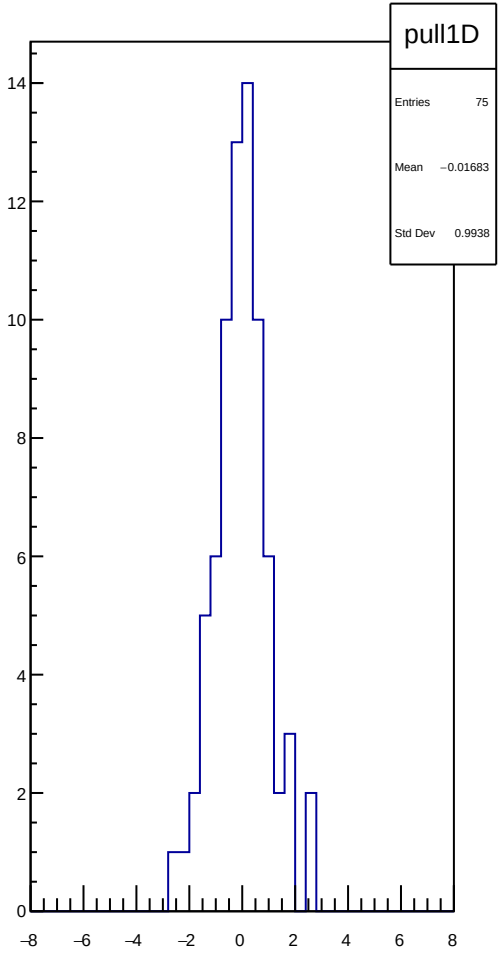

asym_bpm0l04WS_rms vs run
χ² / ndf 1.09e+04 / 74
p0 277.1 ± 0.2314
340
320
300
280
260
240
220

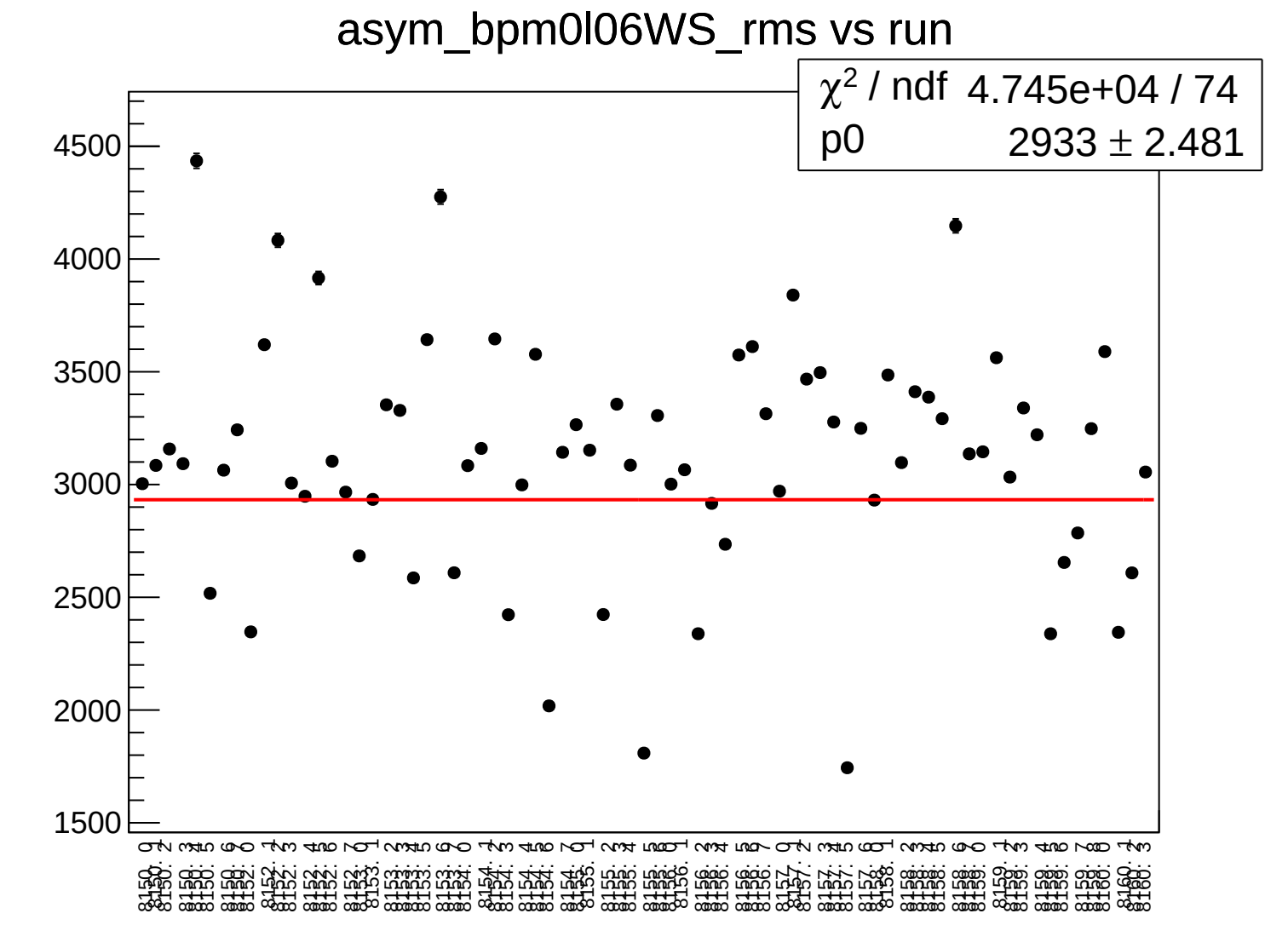

asym_bpm0l05WS_mean vs run
χ² / ndf 255.4 / 74
p0 −1754 ± 232.3
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 2245
Std Dev 2215

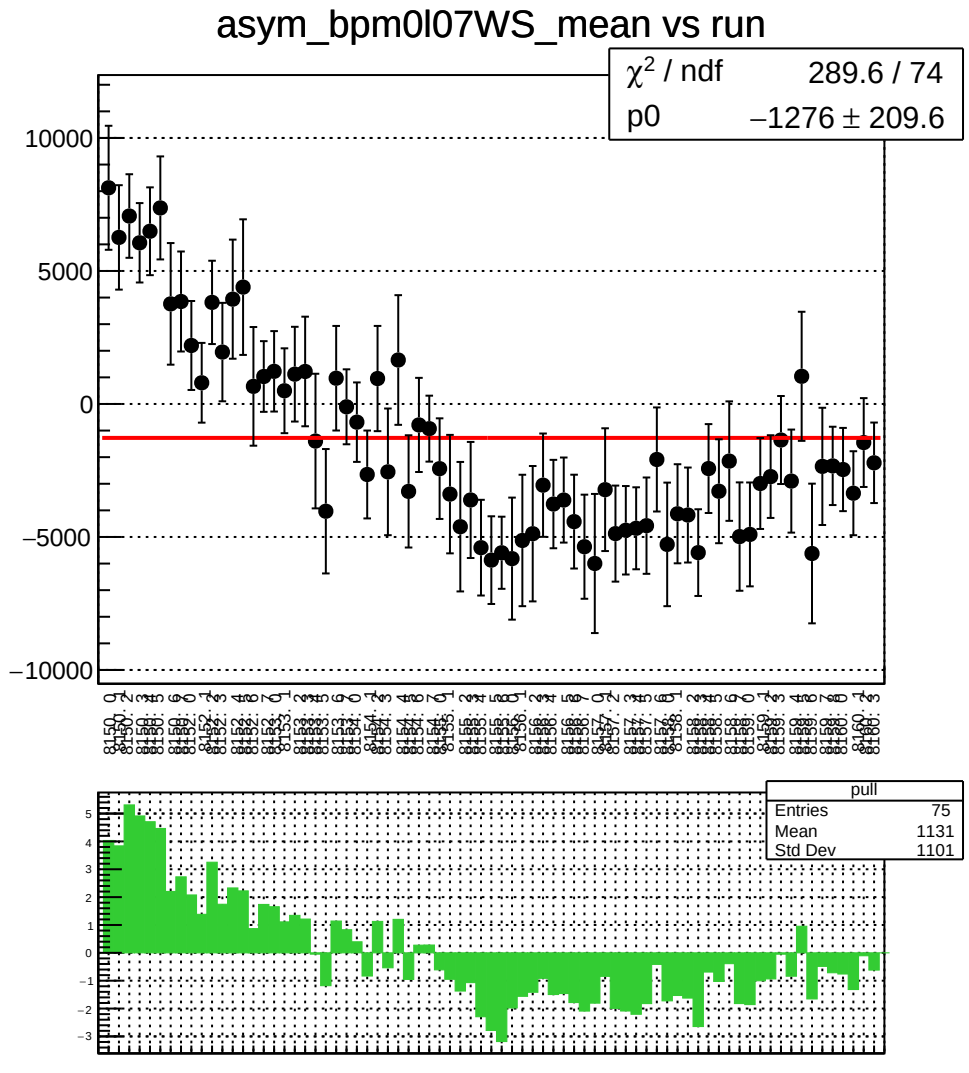

pull1D
Entries 75
Mean −0.01244
Std Dev 1.845

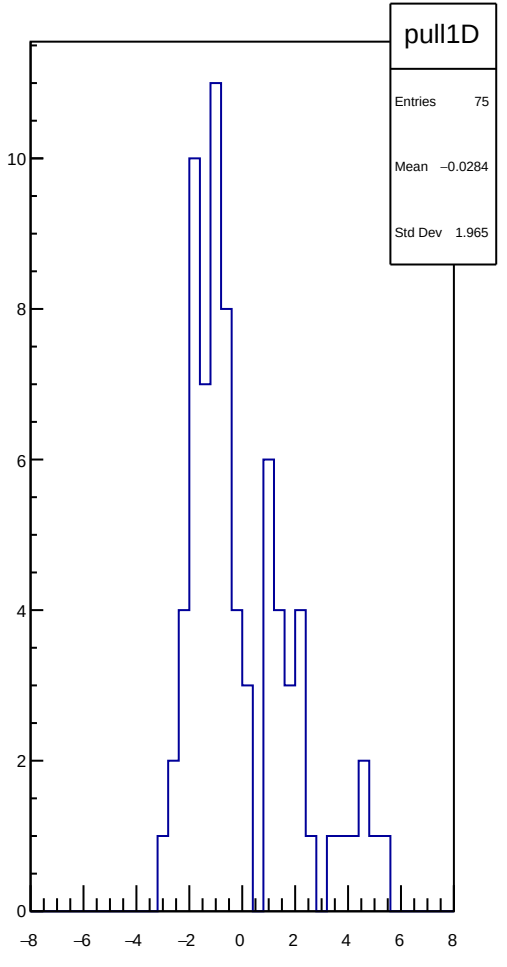

asym_bpm0l05WS_rms vs run
χ² / ndf 3169 / 74
p0 197.2 ± 0.1643
230
220
210
200
190
180
170

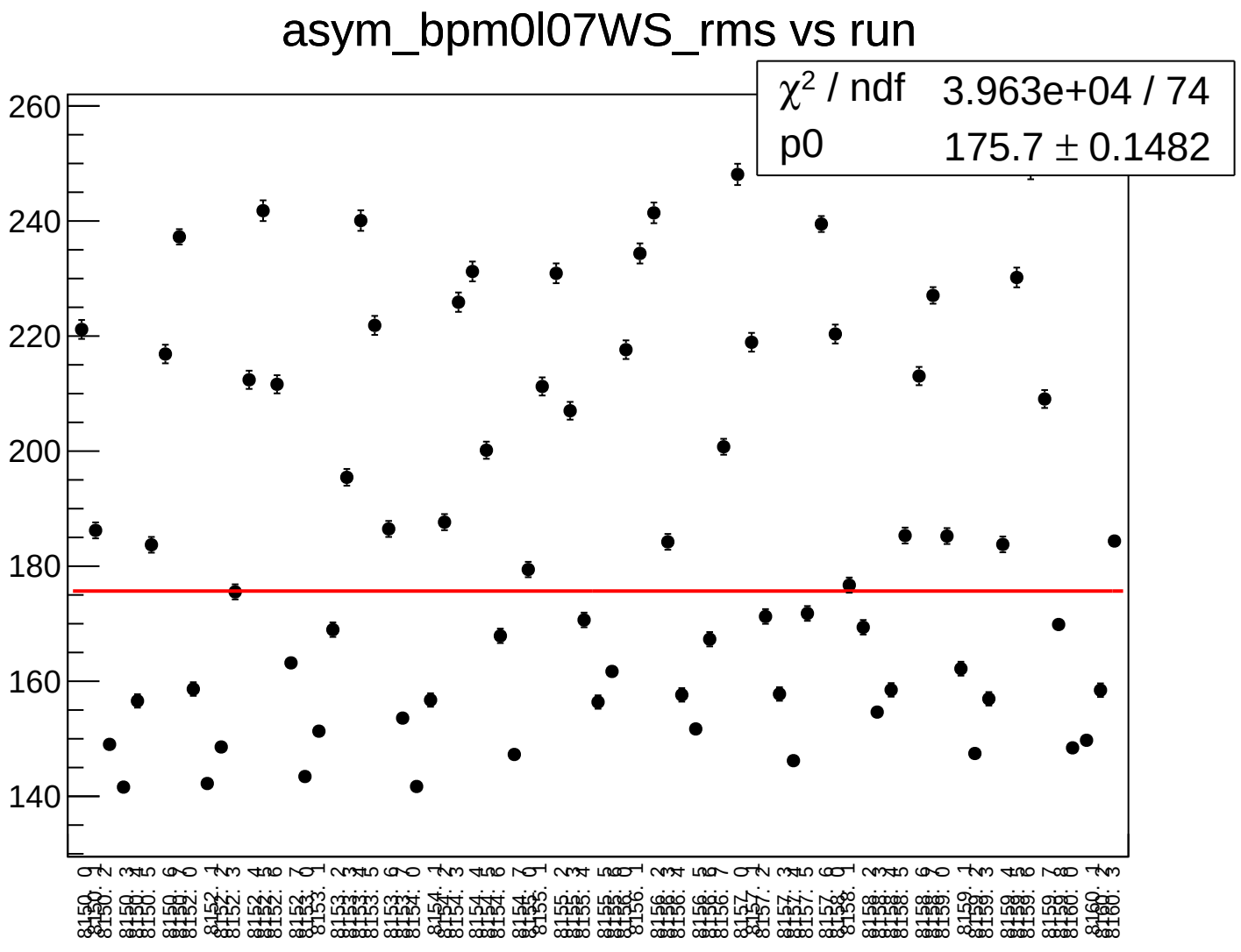

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 74.09 / 74
p0 −5137 ± 3509
150
100
50
0
−50
−100
pull
Entries 75
Mean 22.71
Std Dev 27.88
2
1
0
−1
−2

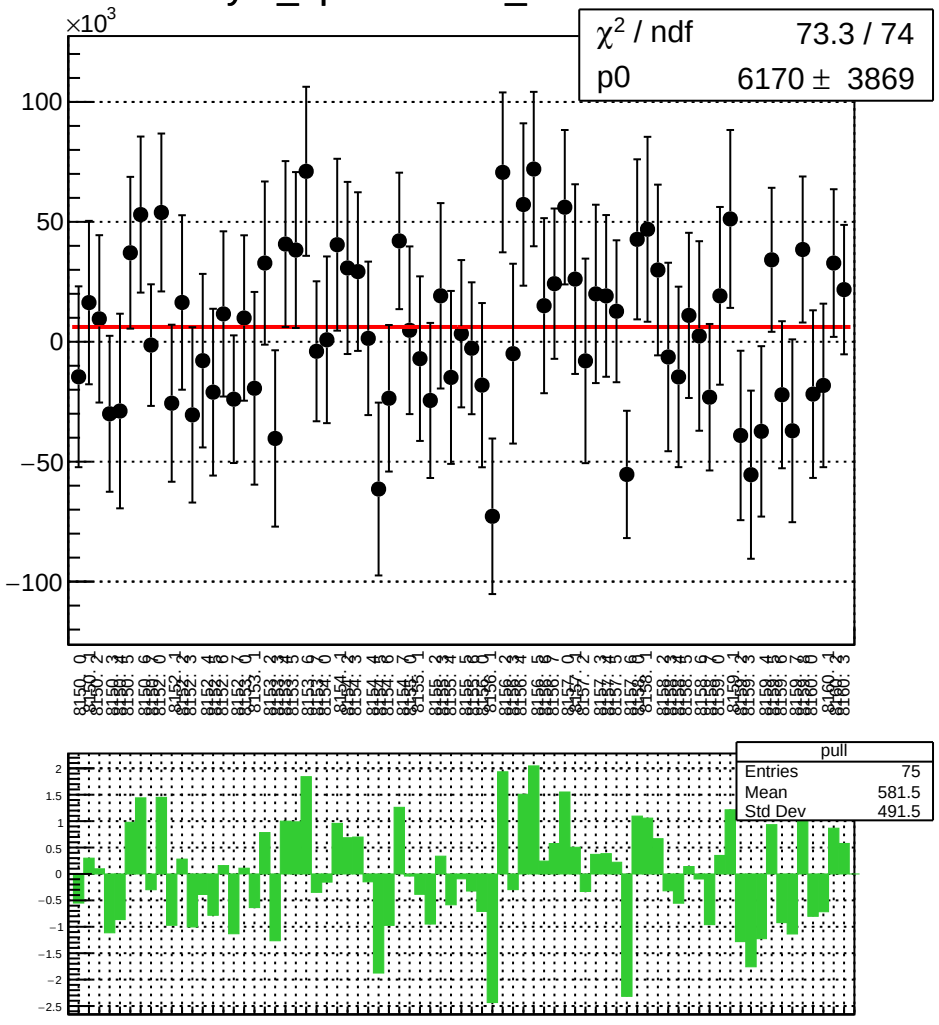

pull1D
Entries 75
Mean −0.01683
Std Dev 0.9938
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

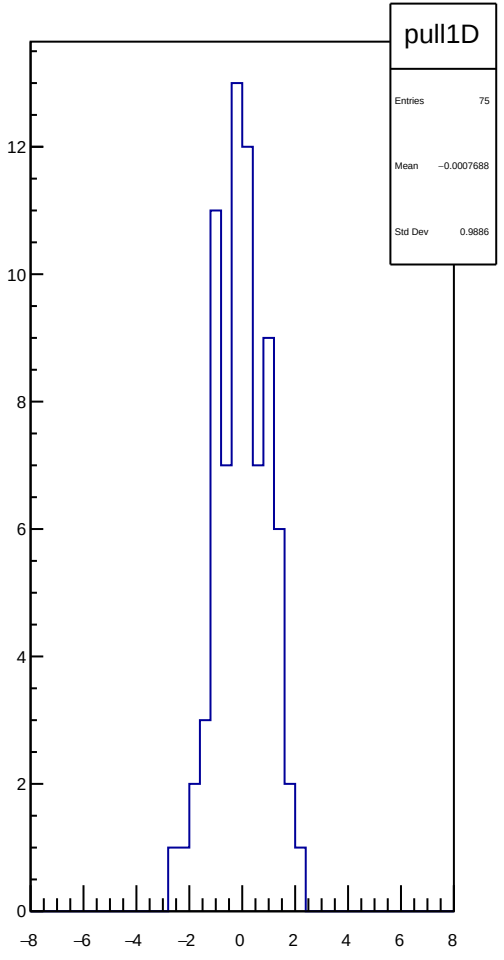

asym_bpm0l06WS_rms vs run
χ² / ndf 4.745e+04 / 74
p0 2933 ± 2.481
4500
4000
3500
3000
2500
2000
1500

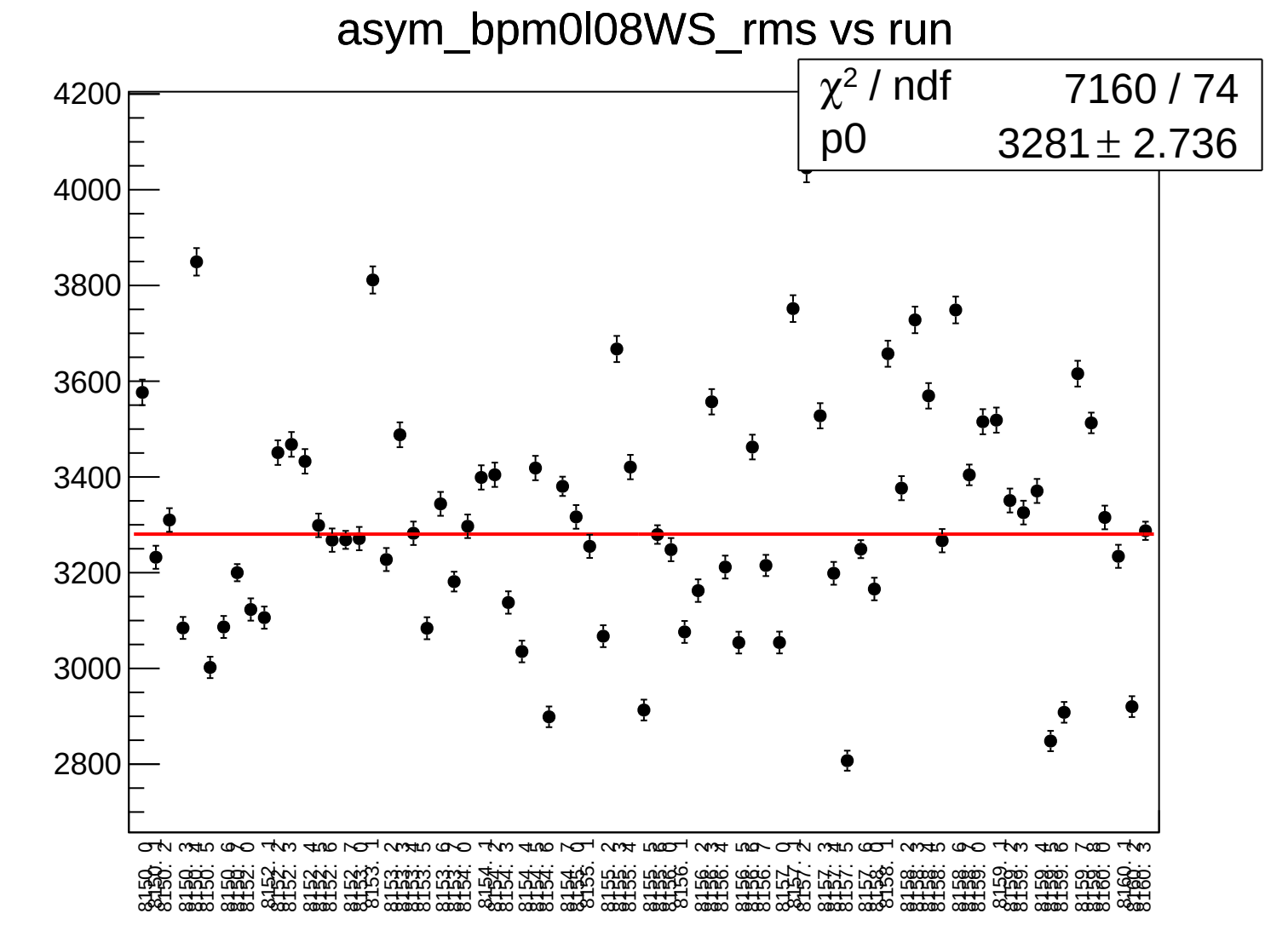

asym_bpm0l07WS_mean vs run
χ² / ndf 289.6 / 74
p0 −1276 ± 209.6
10000
5000
0
−5000
−10000
pull
Entries 75
Mean 1131
Std Dev 1101
5
4
3
2
1
0
−1
−2
−3

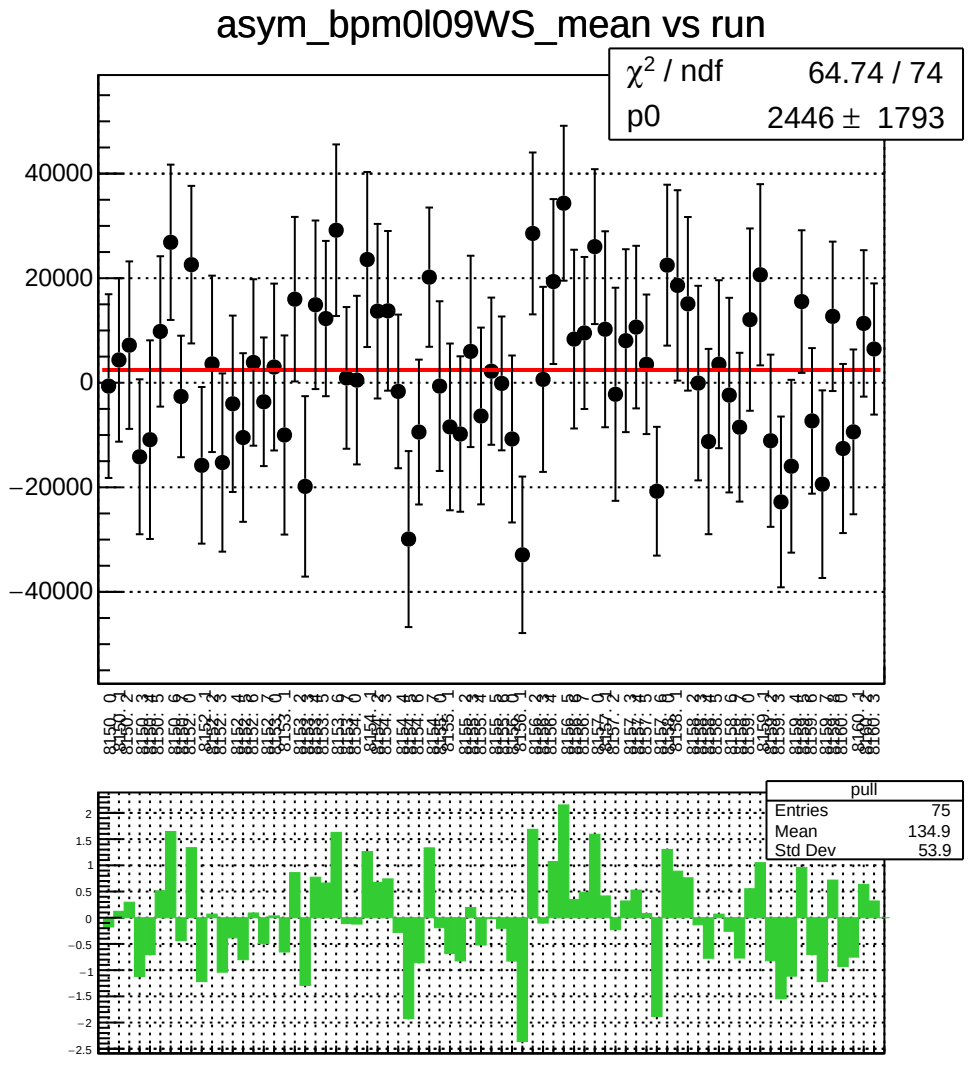

pull1D
Entries 75
Mean −0.0284
Std Dev 1.965
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

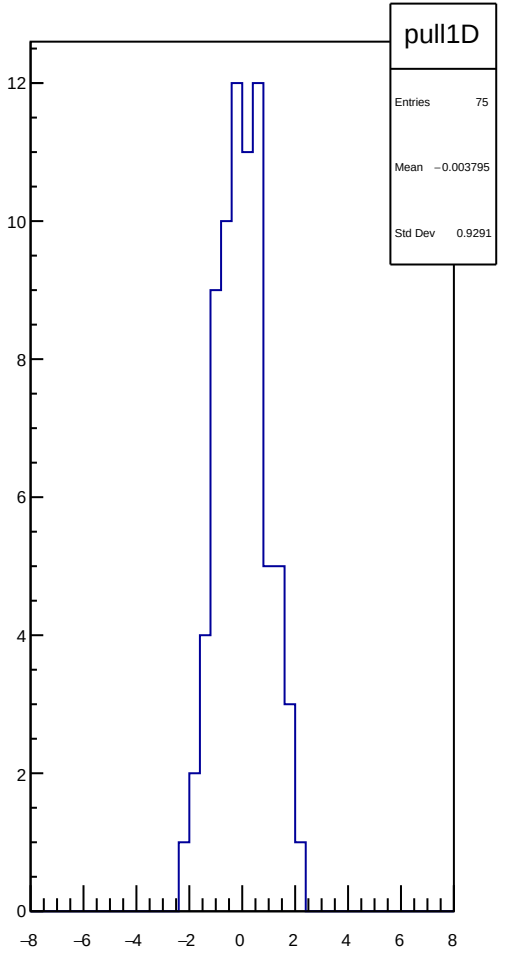

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3.963e+04 / 74
p0 175.7 ± 0.1482
260
240
220
200
180
160
140

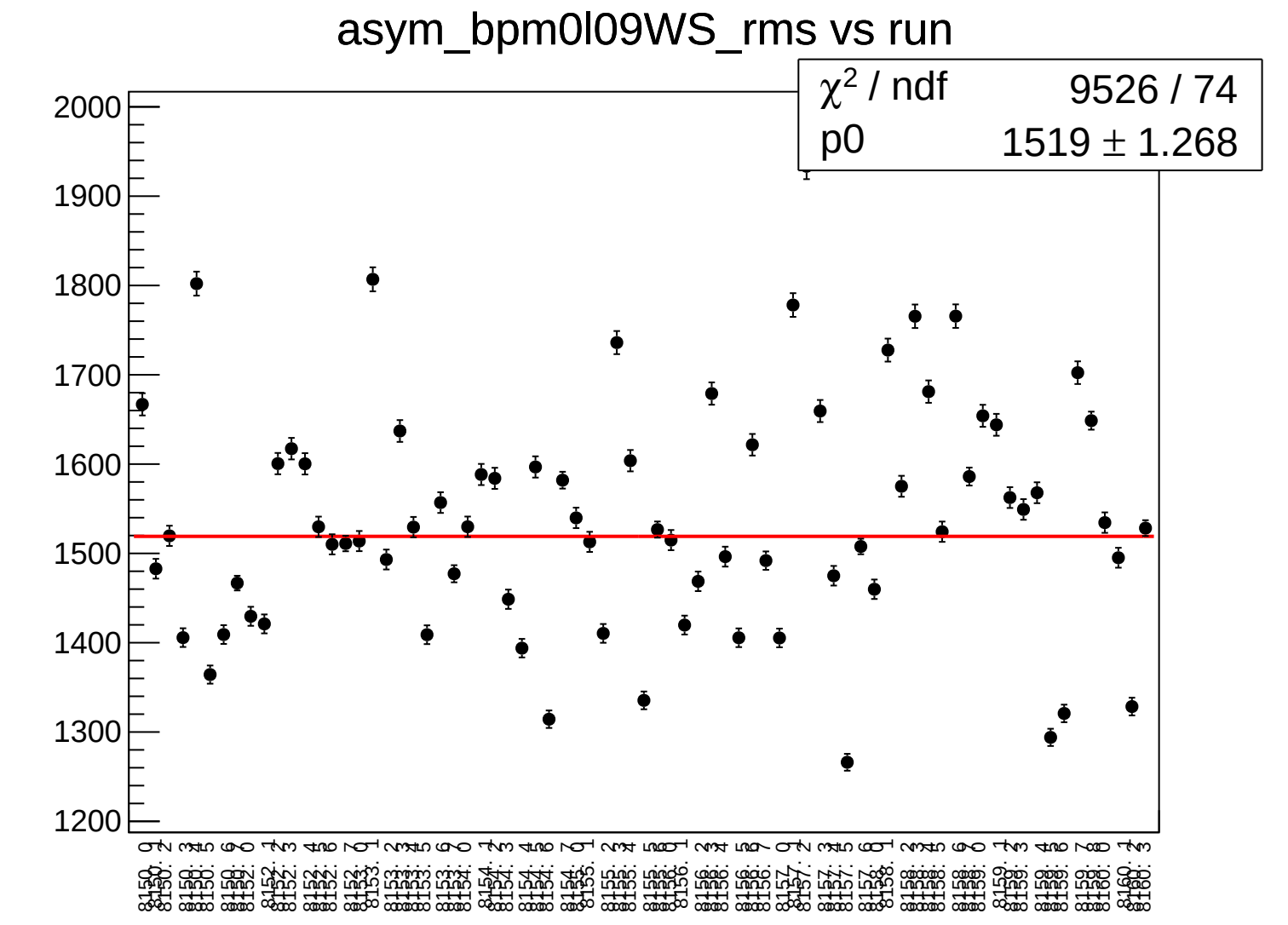

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 73.3 / 74
p0 6170 ± 3869
100
50
0
−50
−100
pull
Entries 75
Mean 581.5
Std Dev 491.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

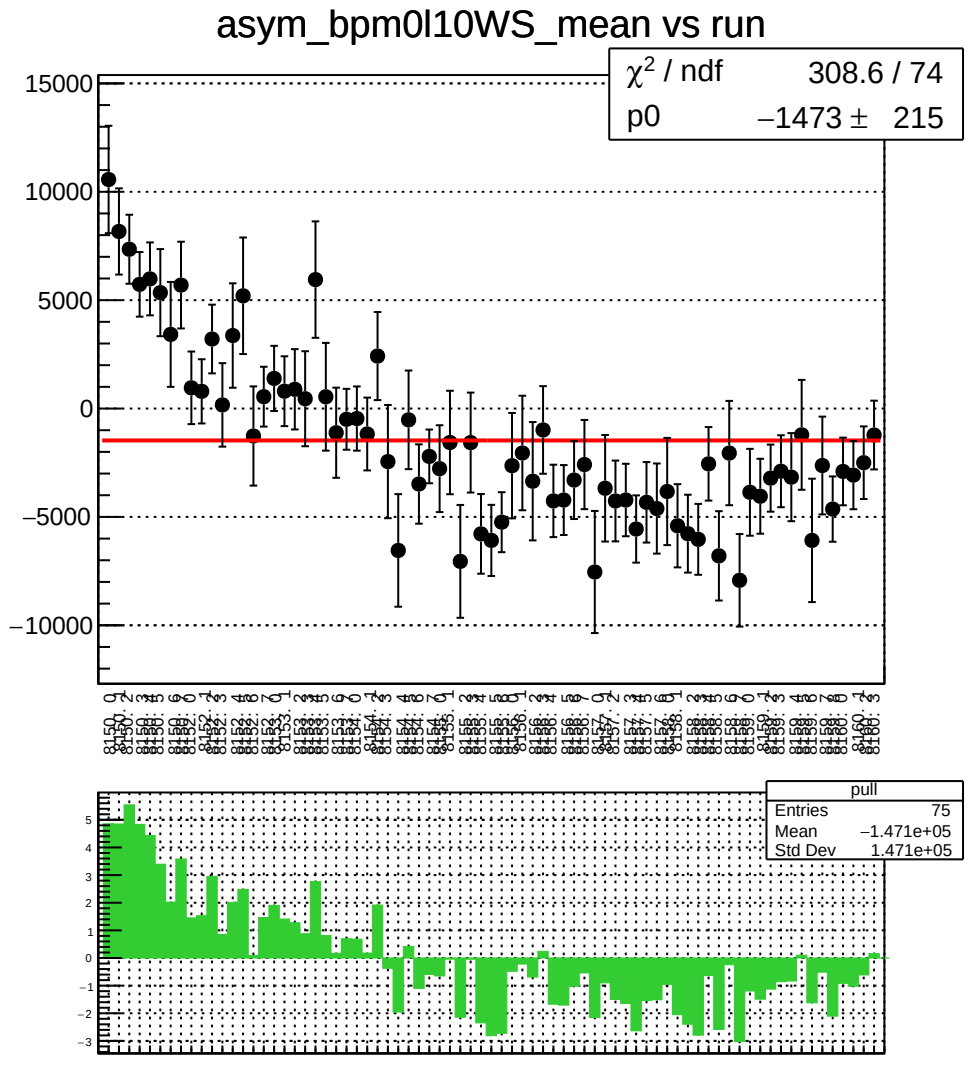

pull1D
Entries 75
Mean −0.0007688
Std Dev 0.9886
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

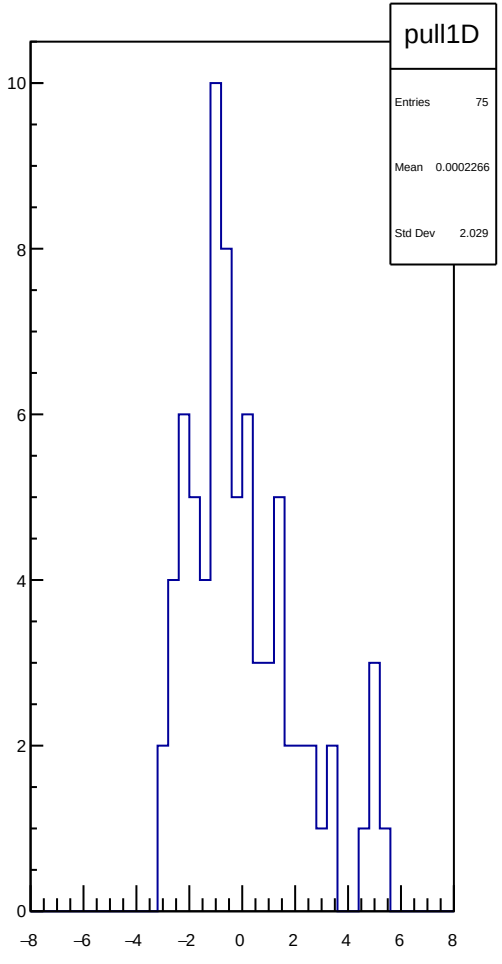

asym_bpm0l08WS_rms vs run
χ² / ndf 7160 / 74
p0 3281 ± 2.736
4200
4000
3800
3600
3400
3200
3000
2800

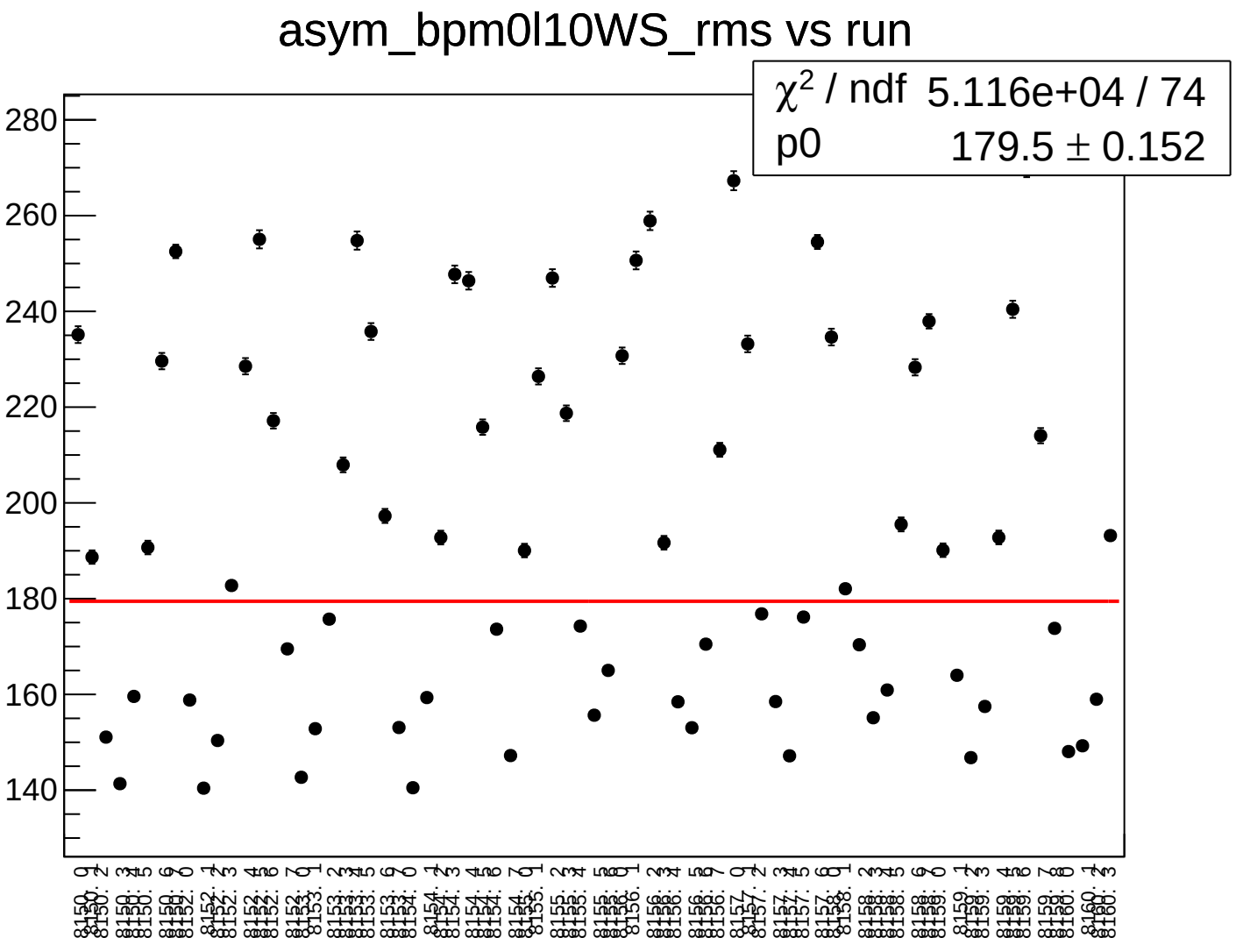

asym_bpm0l09WS_mean vs run
χ² / ndf 64.74 / 74
p0 2446 ± 1793
40000
20000
0
−20000
−40000
pull
Entries 75
Mean 134.9
Std Dev 53.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

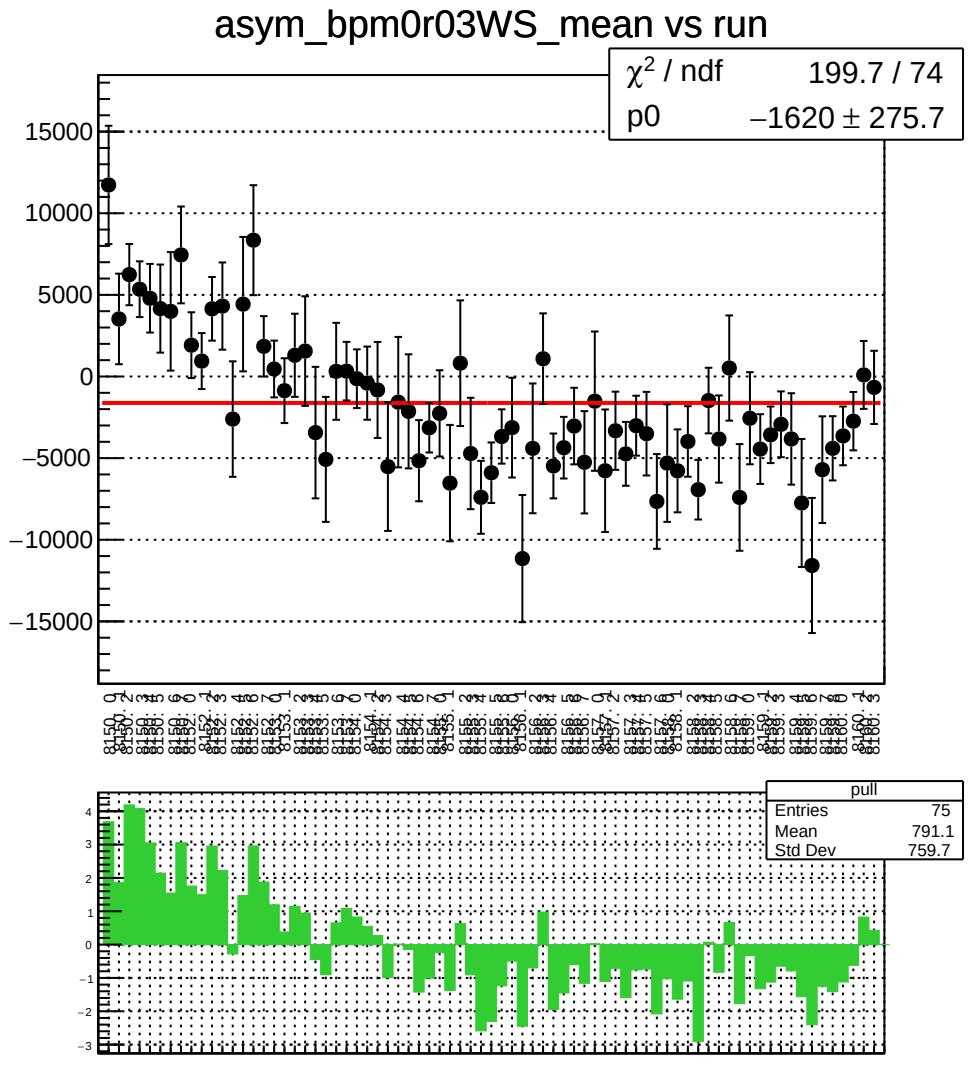

pull1D
Entries 75
Mean −0.003795
Std Dev 0.9291
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

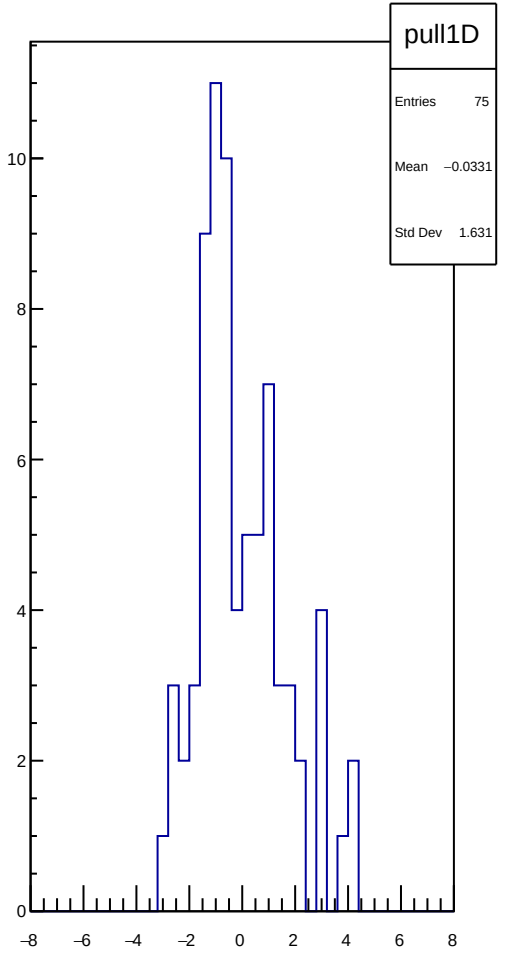

asym_bpm0l09WS_rms vs run
χ² / ndf 9526 / 74
p0 1519 ± 1.268
2000
1900
1800
1700
1600
1500
1400
1300
1200

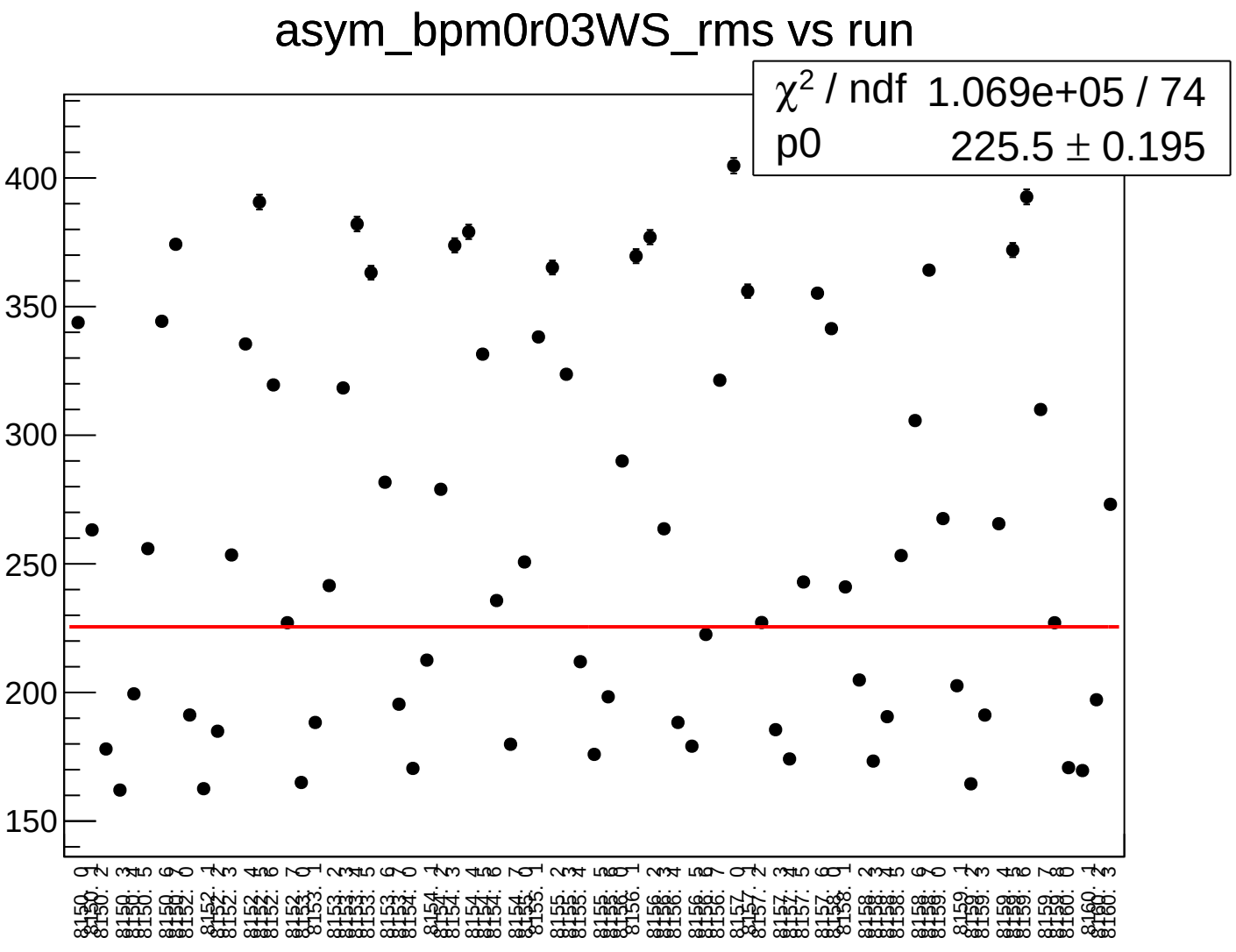

asym_bpm0l10WS_mean vs run
χ² / ndf 308.6 / 74
p0 −1473 ± 215
pull
Entries 75
Mean −1.471e+05
Std Dev 1.471e+05

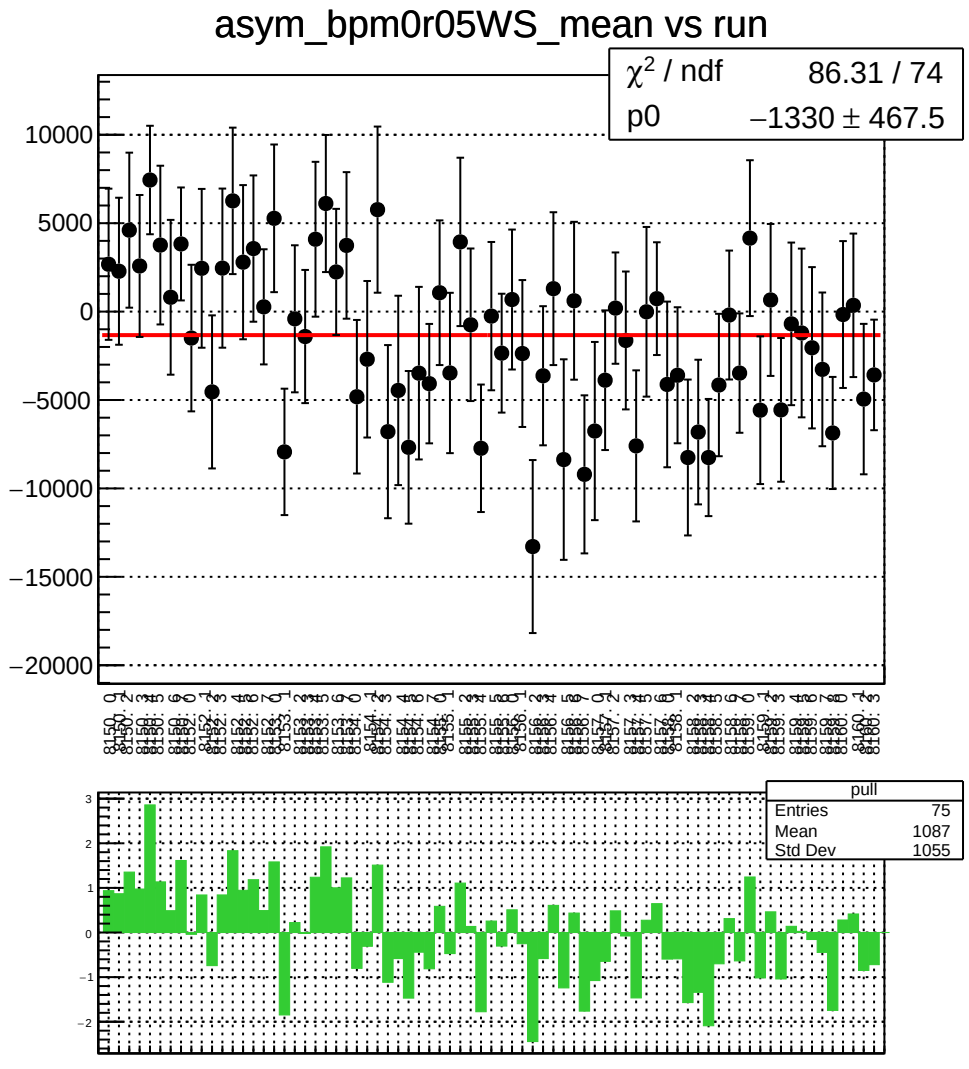

pull1D
Entries 75
Mean 0.0002266
Std Dev 2.029

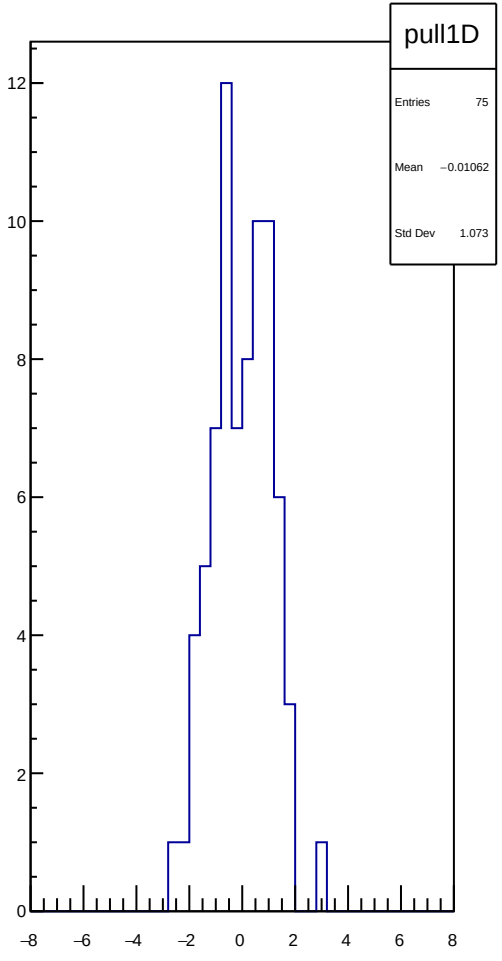

asym_bpm0l10WS_rms vs run
χ² / ndf 5.116e+04 / 74
p0 179.5 ± 0.152
280
260
240
220
200
180
160
140

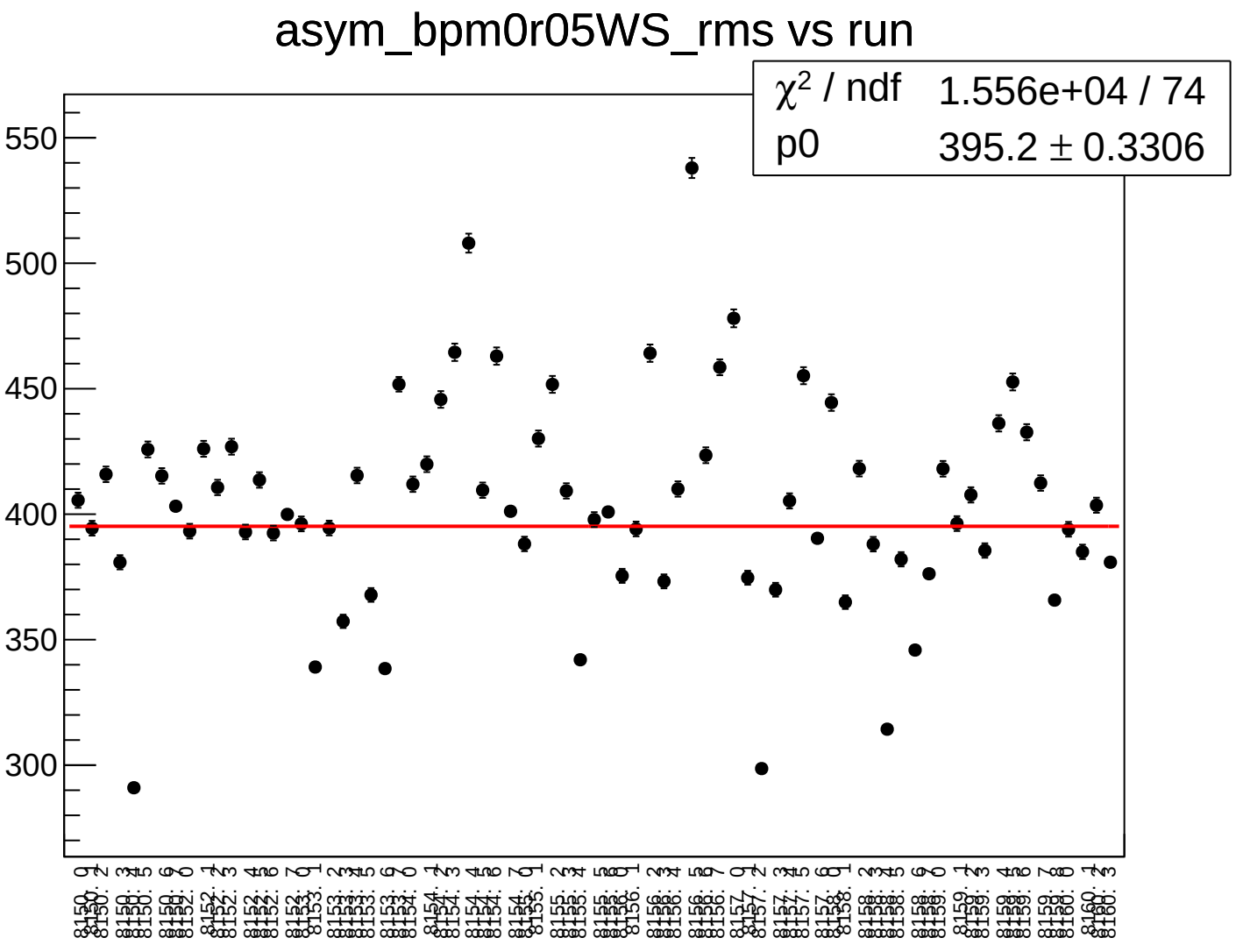

asym_bpm0r03WS_mean vs run
χ² / ndf 199.7 / 74
p0 −1620 ± 275.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 75
Mean 791.1
Std Dev 759.7
4
3
2
1
0
−1
−2
−3

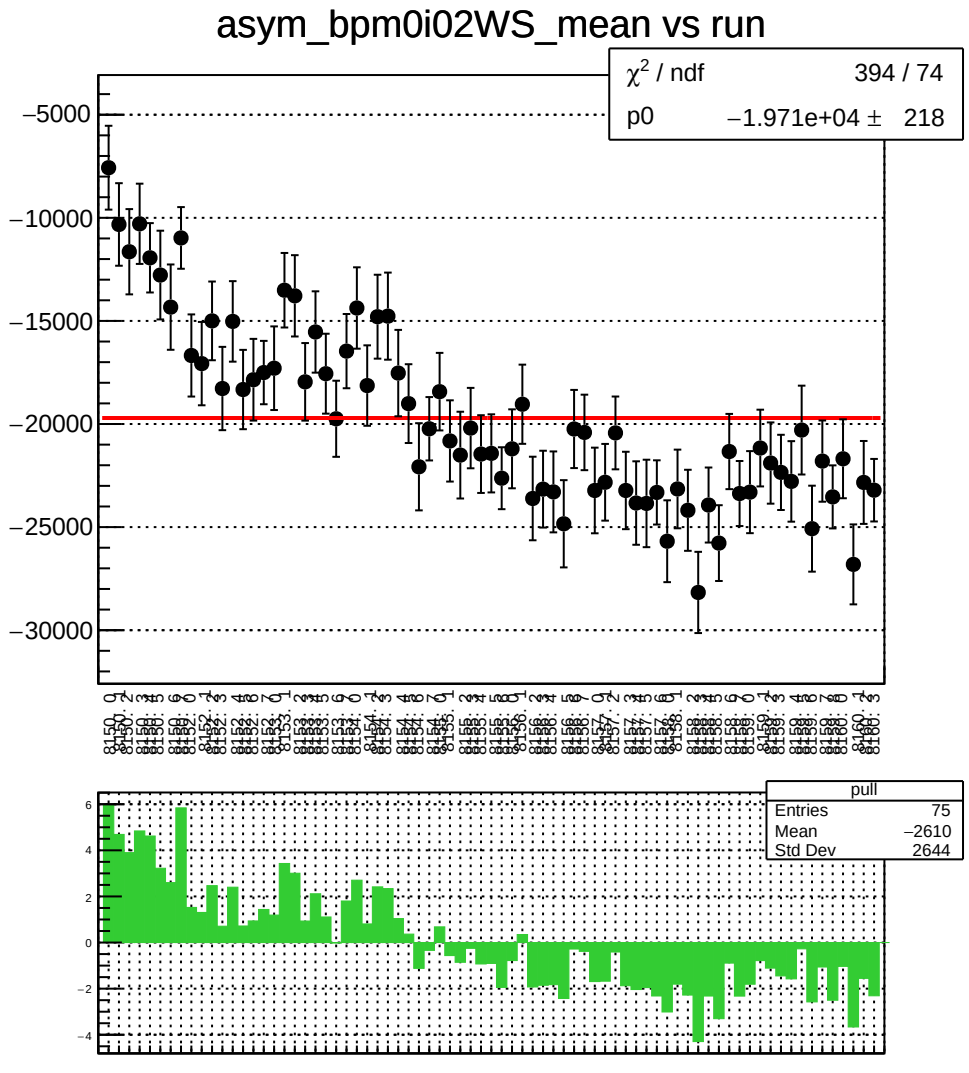

pull1D
Entries 75
Mean −0.0331
Std Dev 1.631
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

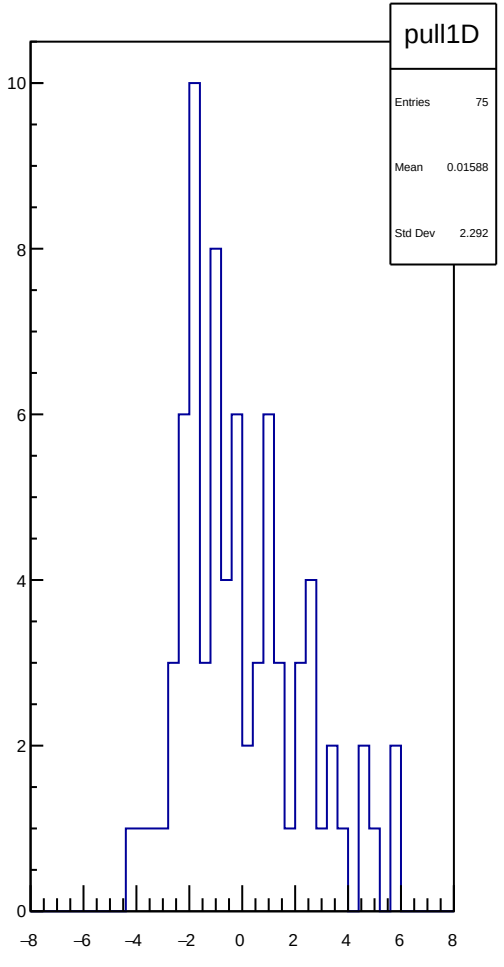

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.069e+05 / 74
p0 225.5 ± 0.195
400
350
300
250
200
150

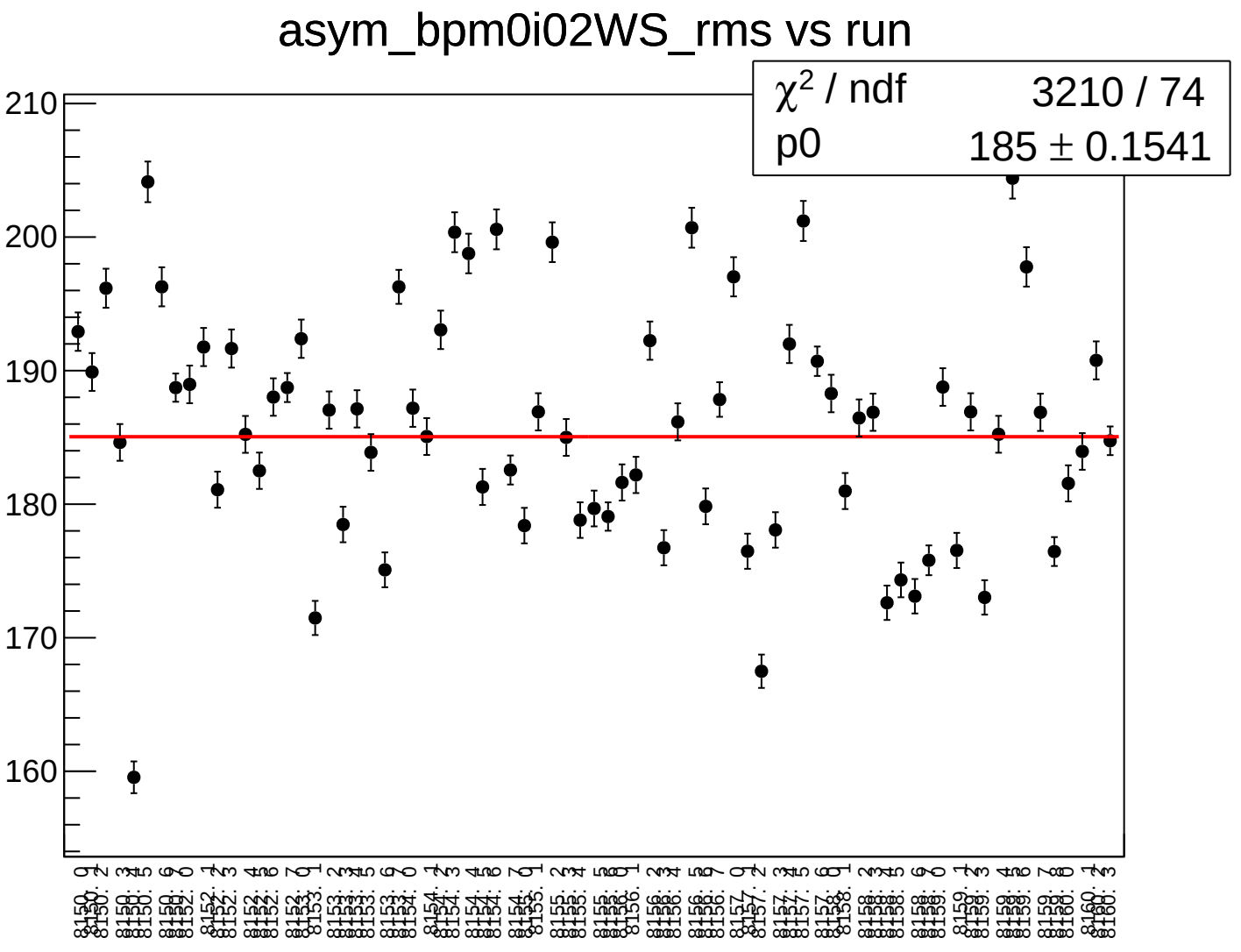

asym_bpm0r05WS_mean vs run
χ² / ndf 86.31 / 74
p0 −1330 ± 467.5
pull
Entries 75
Mean 1087
Std Dev 1055

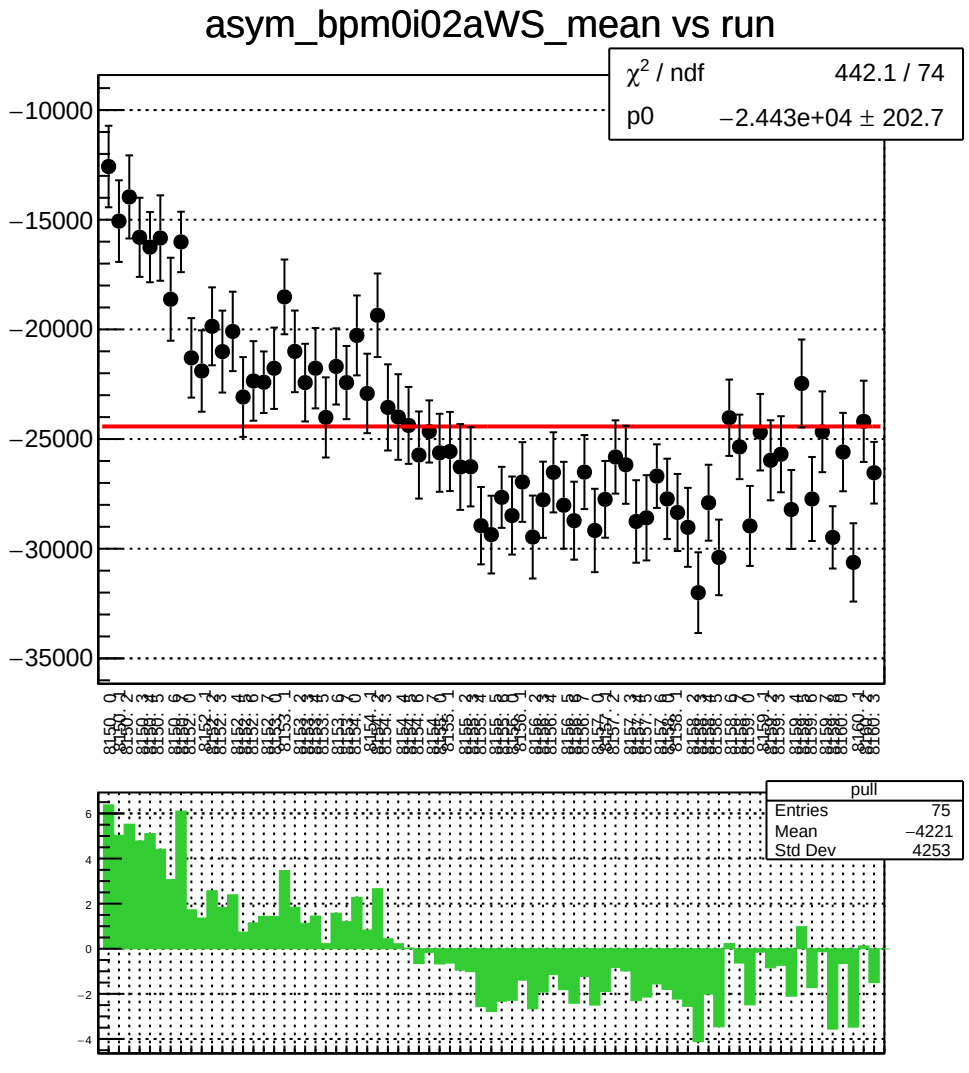

pull1D
Entries 75
Mean −0.01062
Std Dev 1.073

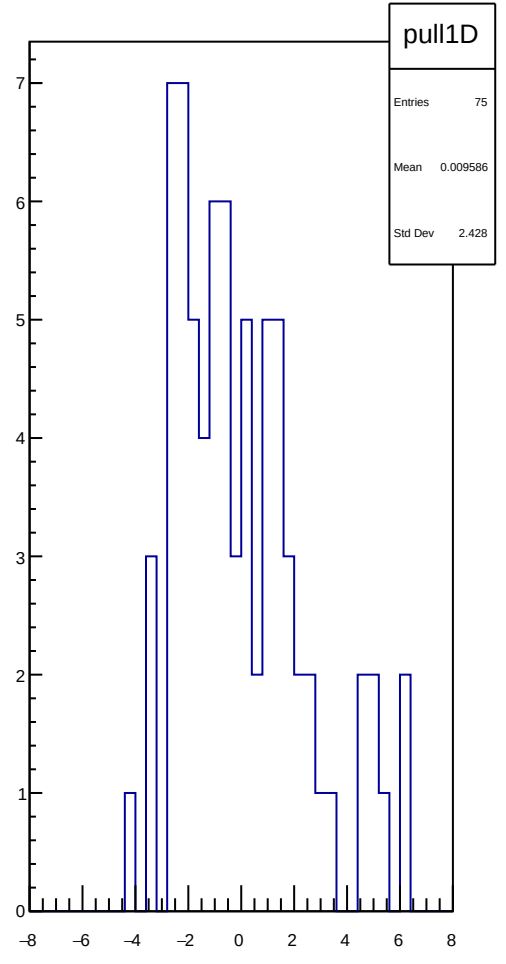

asym_bpm0r05WS_rms vs run
χ² / ndf 1.556e+04 / 74
p0 395.2 ± 0.3306
550
500
450
400
350
300

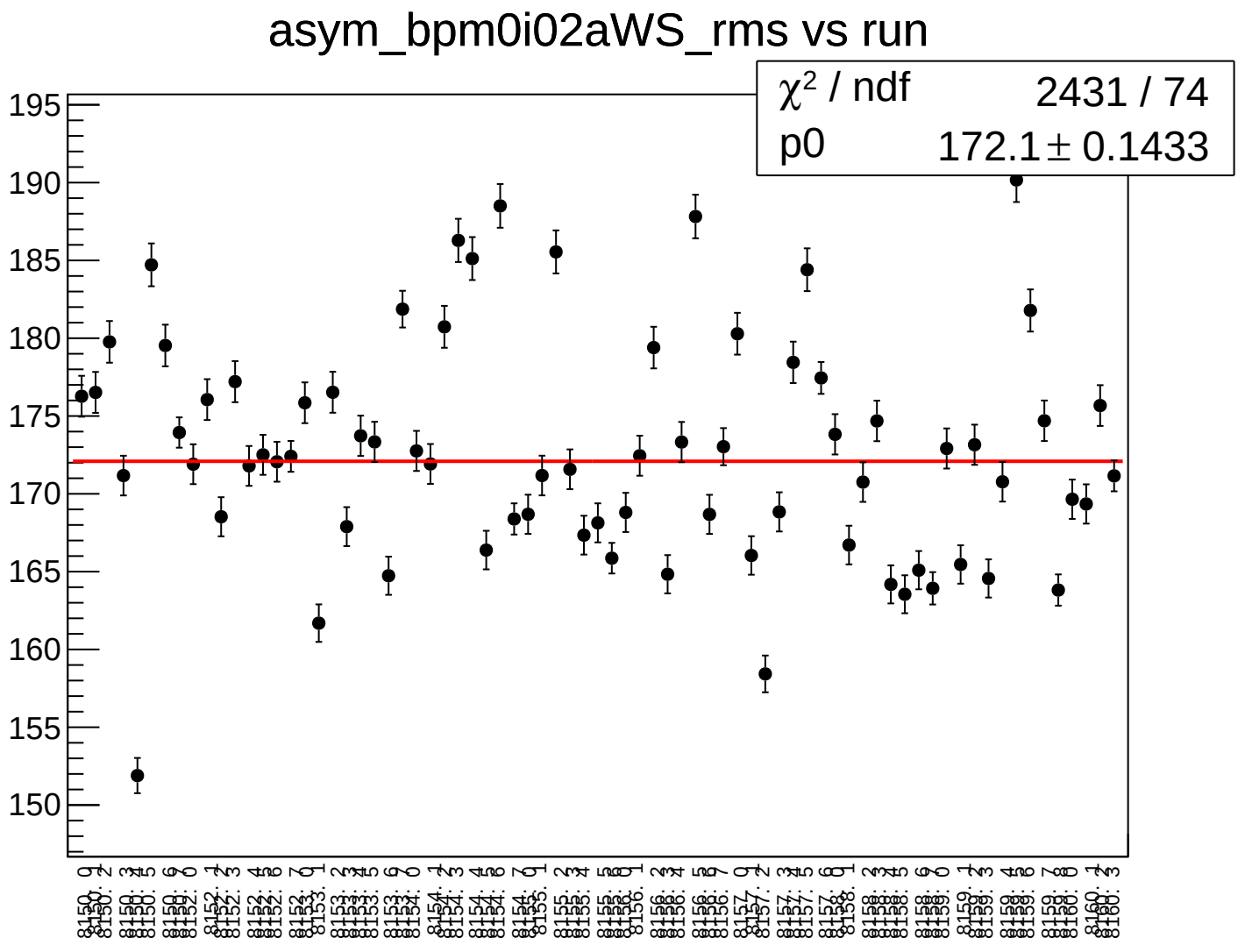

asym_bpm0i02WS_mean vs run
χ² / ndf 394 / 74
p0 −1.971e+04 ± 218
−5000
−10000
−15000
−20000
−25000
−30000
pull
Entries 75
Mean −2610
Std Dev 2644
6
4
2
0
−2
−4

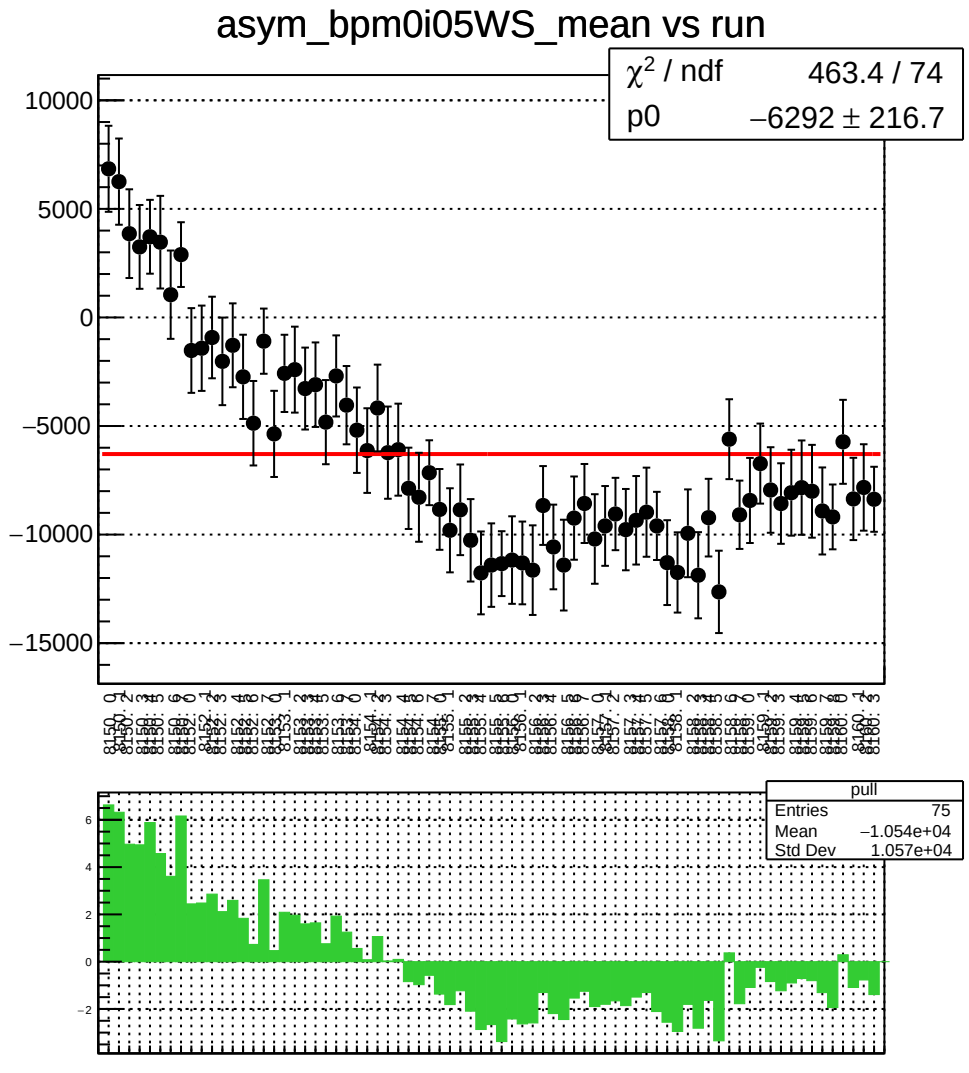

pull1D
Entries 75
Mean 0.01588
Std Dev 2.292
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

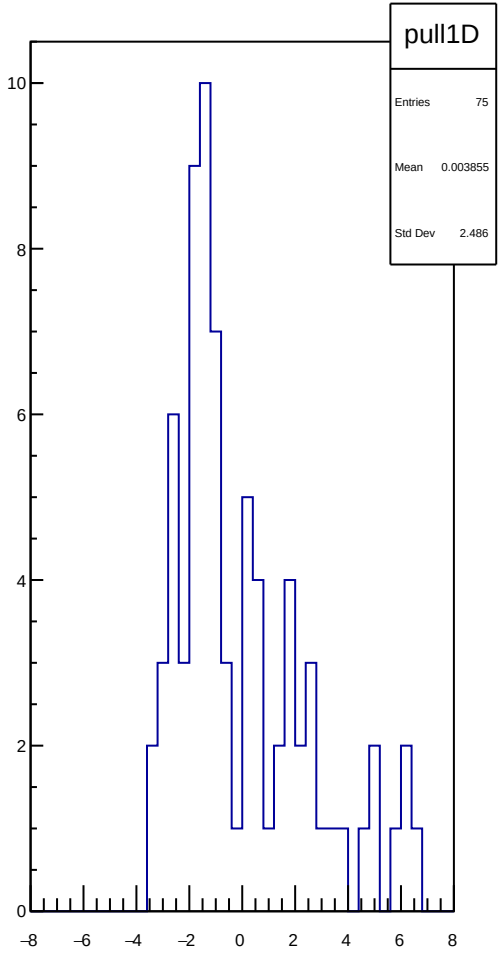

asym_bpm0i02WS_rms vs run
χ^2 / ndf 3210 / 74
p0 185 ± 0.1541
210
200
190
180
170
160

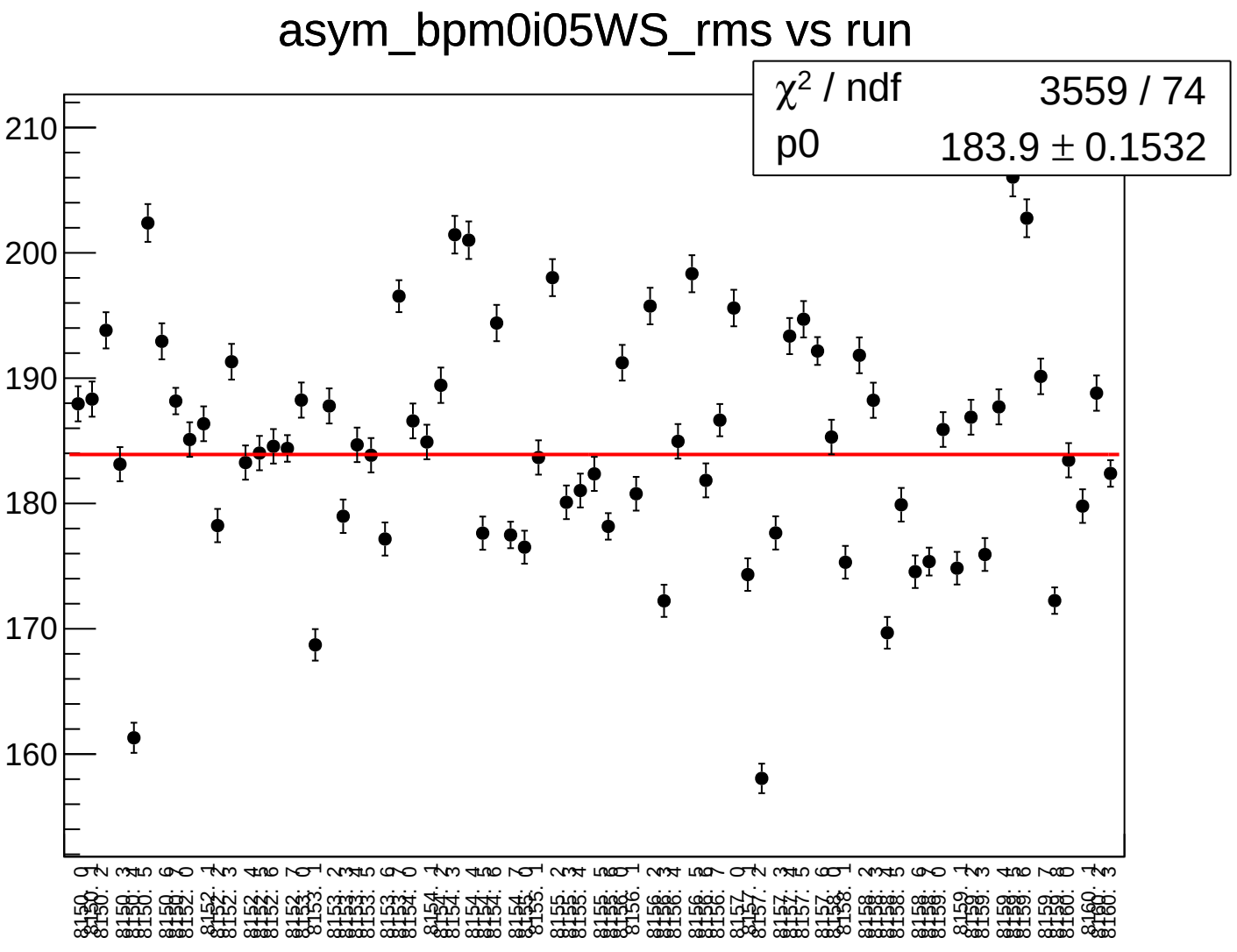

asym_bpm0i02aWS_mean vs run
χ² / ndf 442.1 / 74
p0 −2.443e+04 ± 202.7
−10000
−15000
−20000
−25000
−30000
−35000
pull
Entries 75
Mean −4221
Std Dev 4253

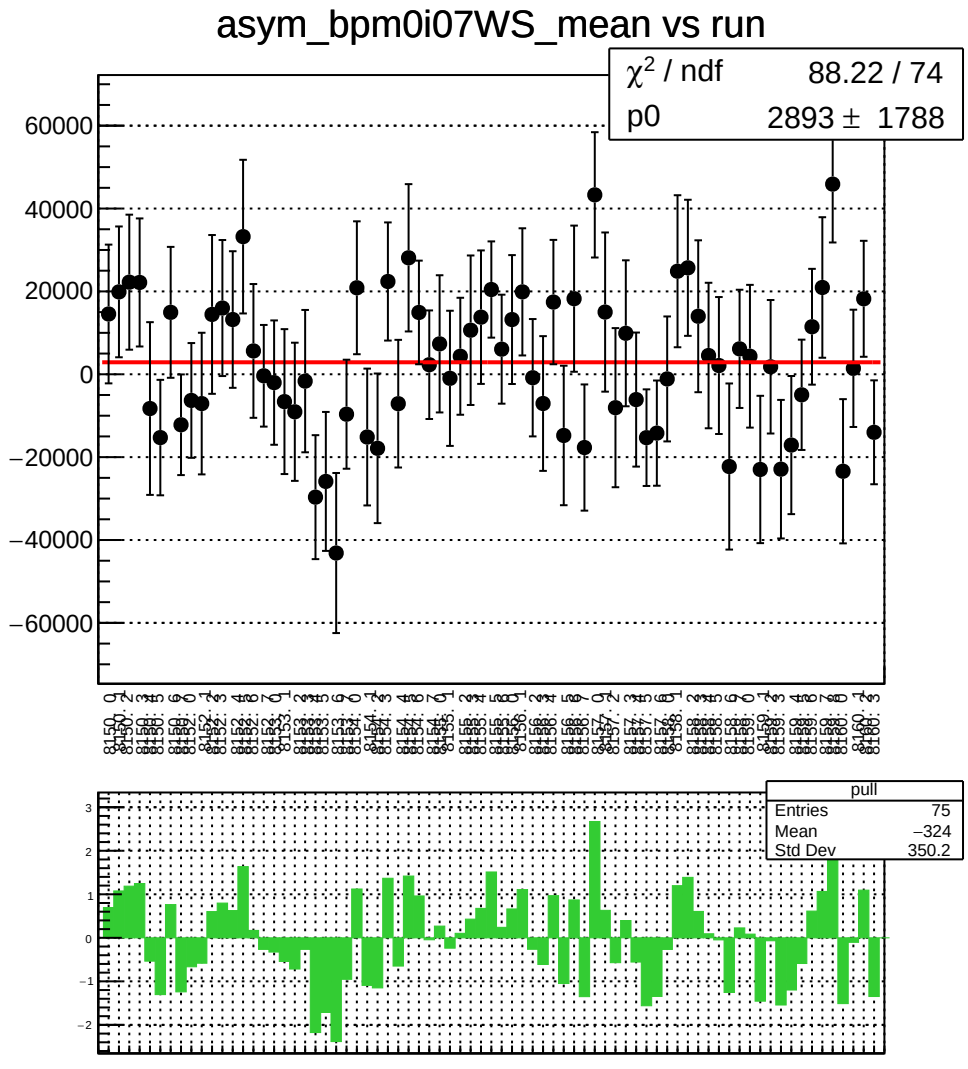

pull1D
Entries 75
Mean 0.009586
Std Dev 2.428

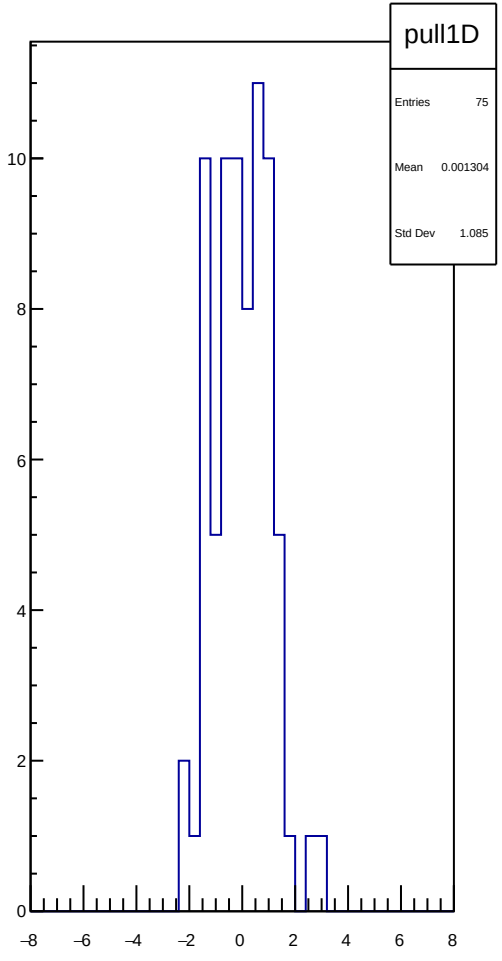

asym_bpm0i02aWS_rms vs run
χ² / ndf 2431 / 74
p0 172.1 ± 0.1433
195
190
185
180
175
170
165
160
155
150

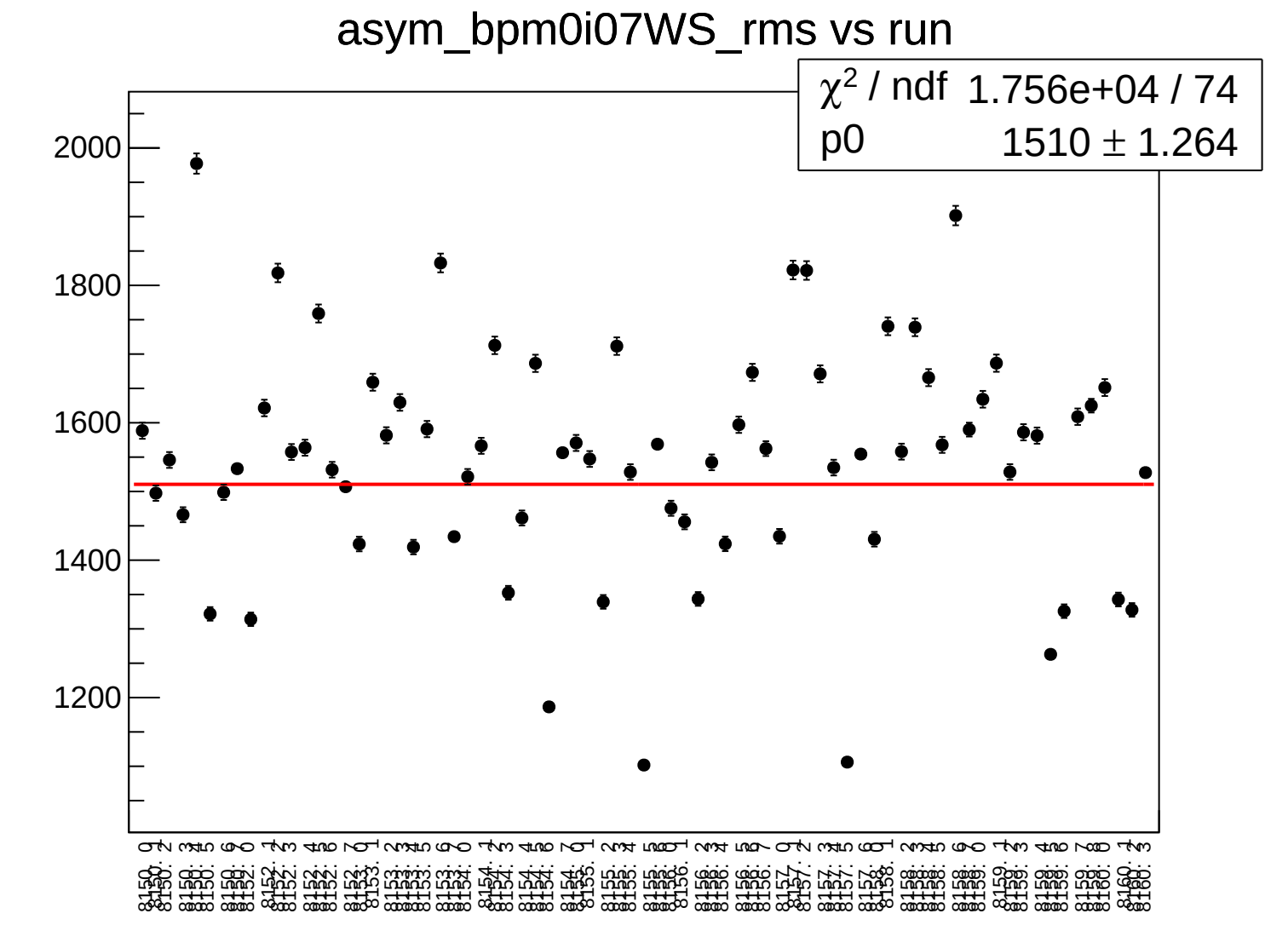

asym_bpm0i05WS_mean vs run
χ² / ndf 463.4 / 74
p0 −6292 ± 216.7
pull
Entries 75
Mean −1.054e+04
Std Dev 1.057e+04

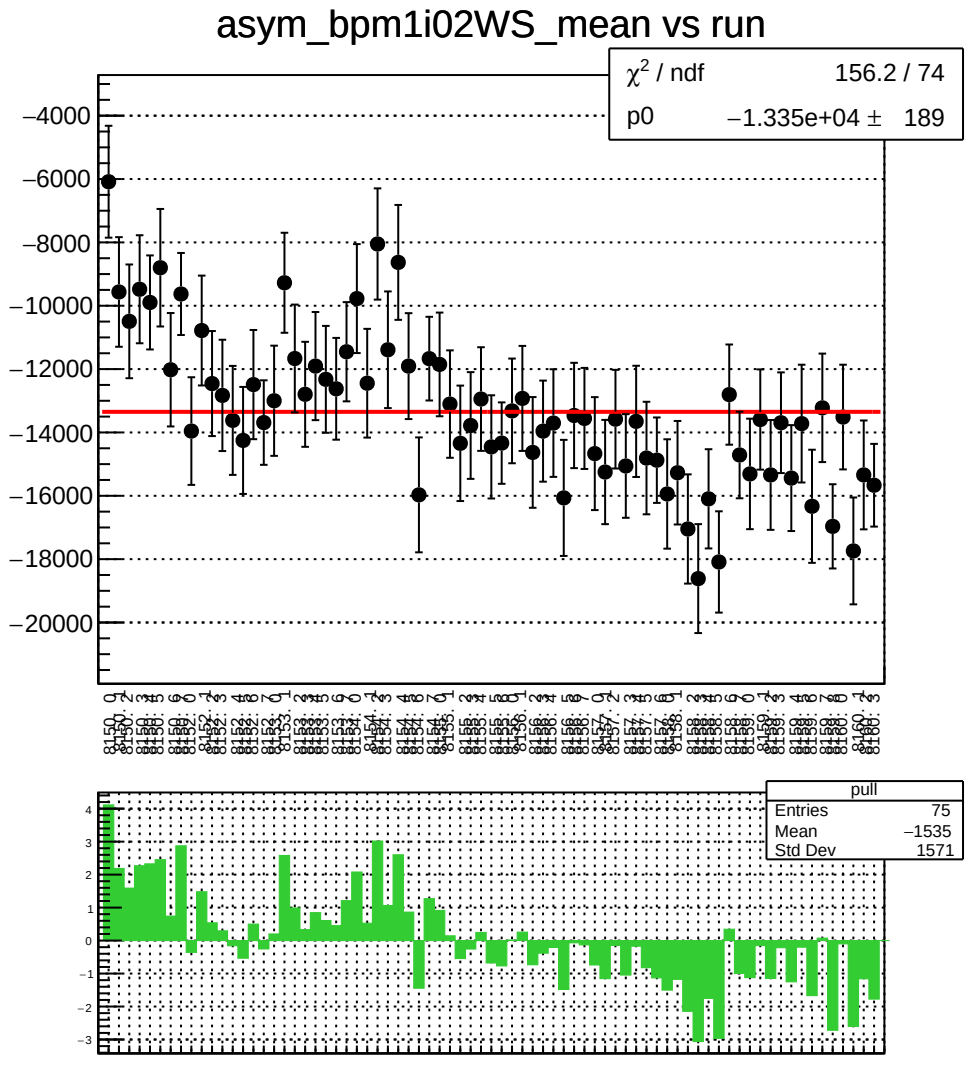

pull1D
Entries 75
Mean 0.003855
Std Dev 2.486

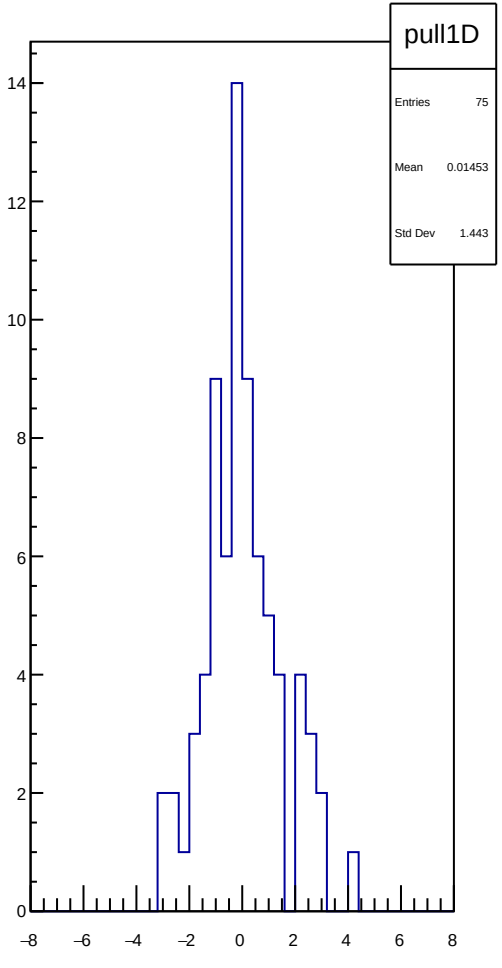

asym_bpm0i05WS_rms vs run
χ² / ndf 3559 / 74
p0 183.9 ± 0.1532
210
200
190
180
170
160

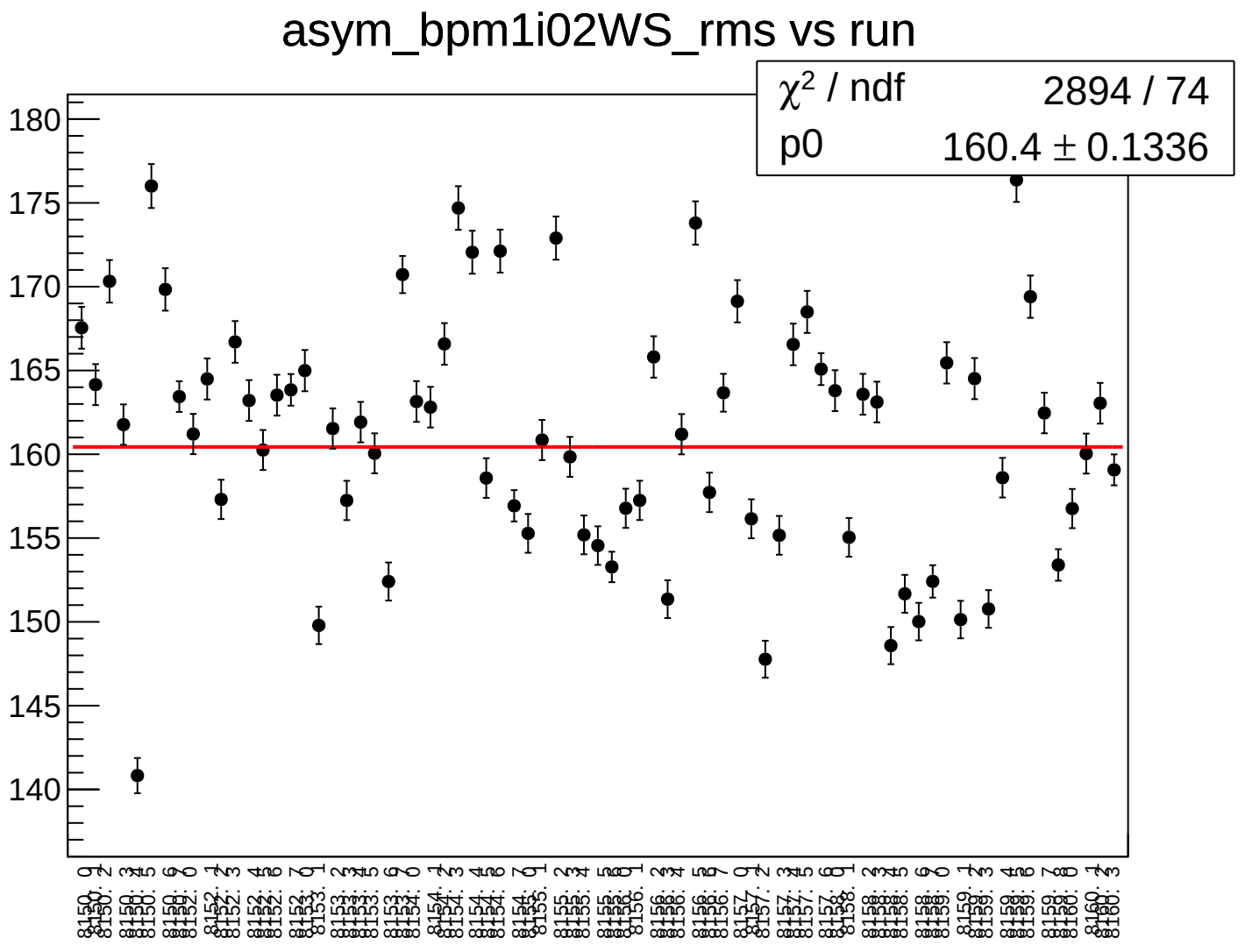

asym_bpm0i07WS_mean vs run
χ² / ndf 88.22 / 74
p0 2893 ± 1788
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 75
Mean −324
Std Dev 350.2
3
2
1
0
−1
−2

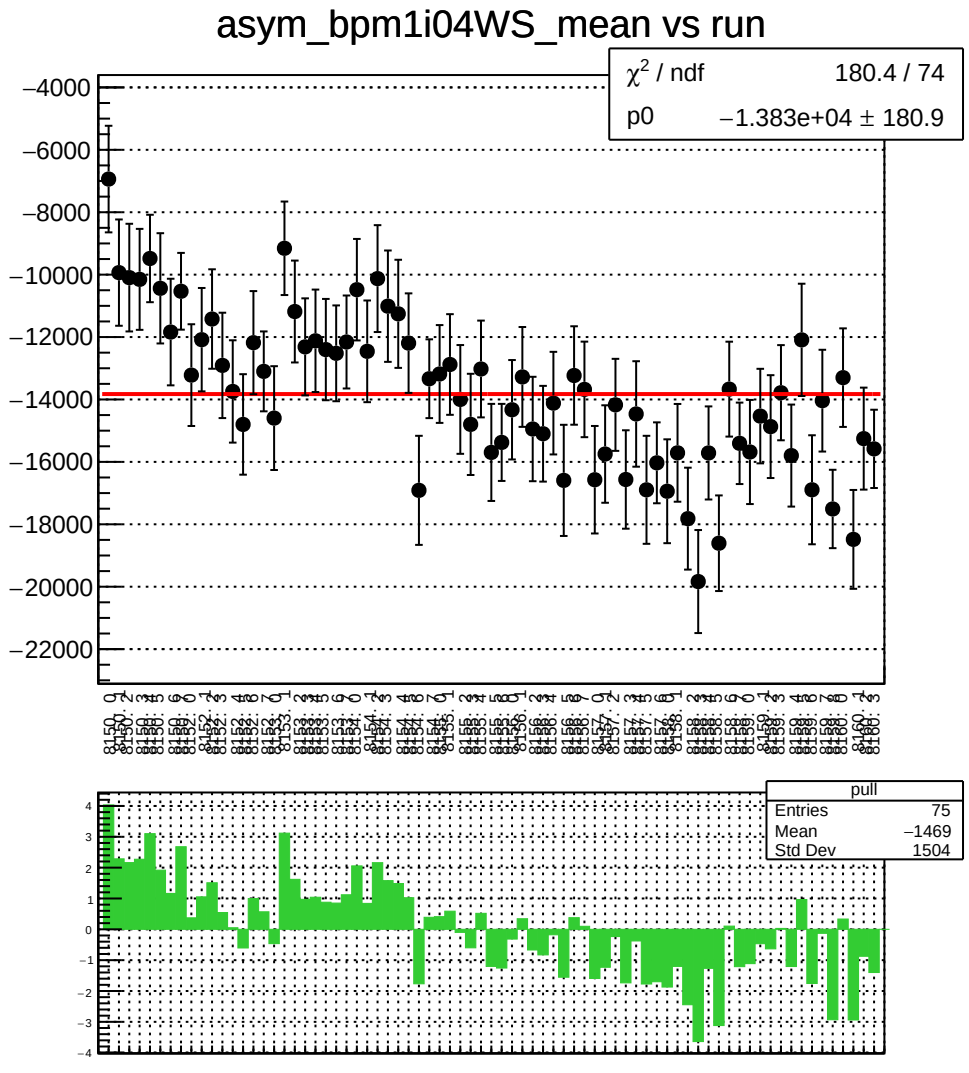

pull1D
Entries 75
Mean 0.001304
Std Dev 1.085
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

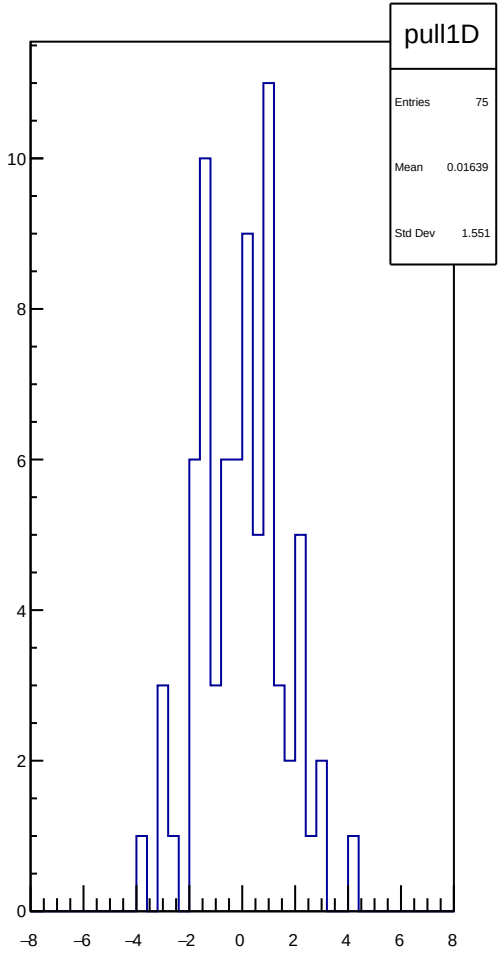

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.756e+04 / 74
p0 1510 ± 1.264
2000
1800
1600
1400
1200

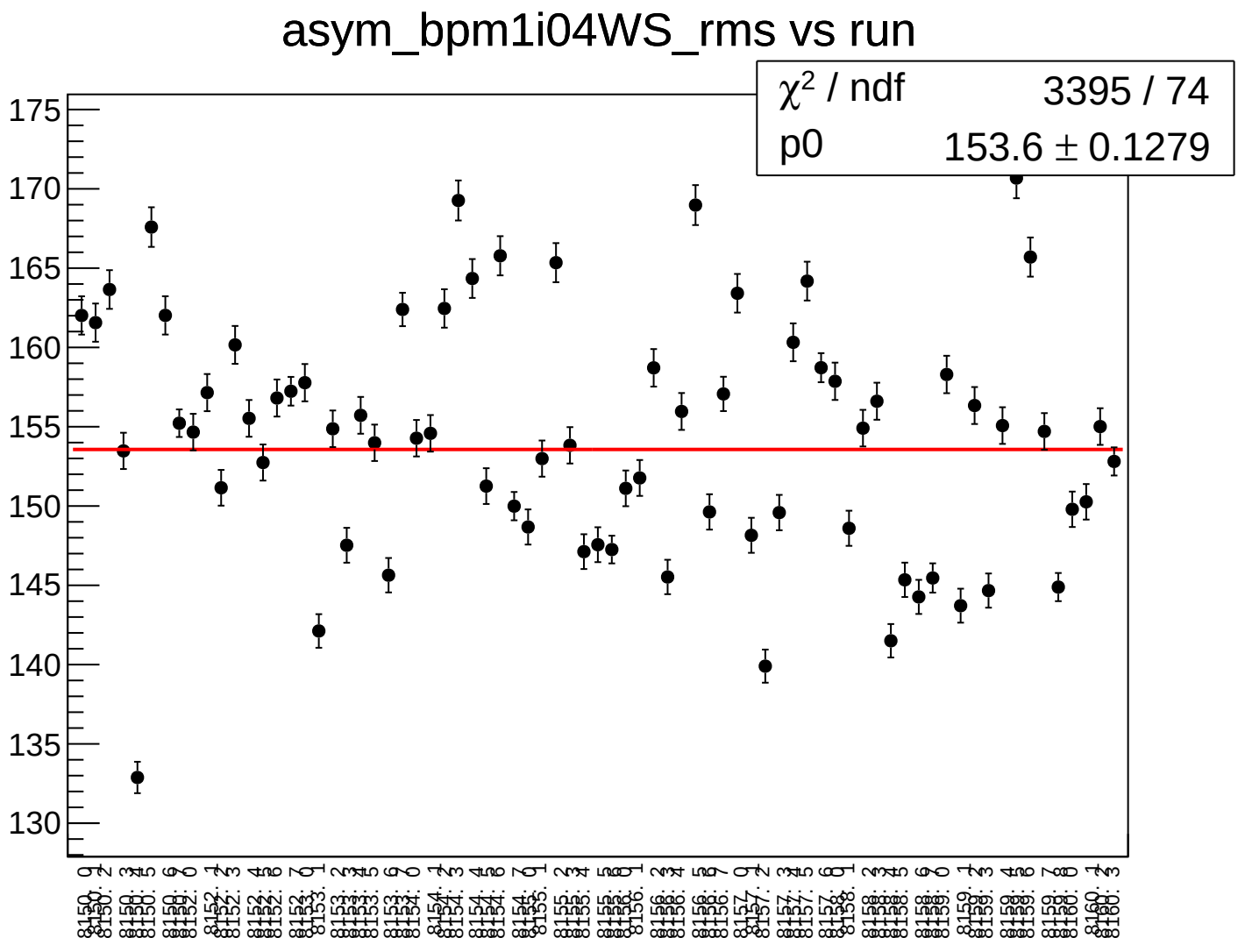

asym_bpm1i02WS_mean vs run
χ² / ndf 156.2 / 74
p0 −1.335e+04 ± 189
pull
Entries 75
Mean −1535
Std Dev 1571

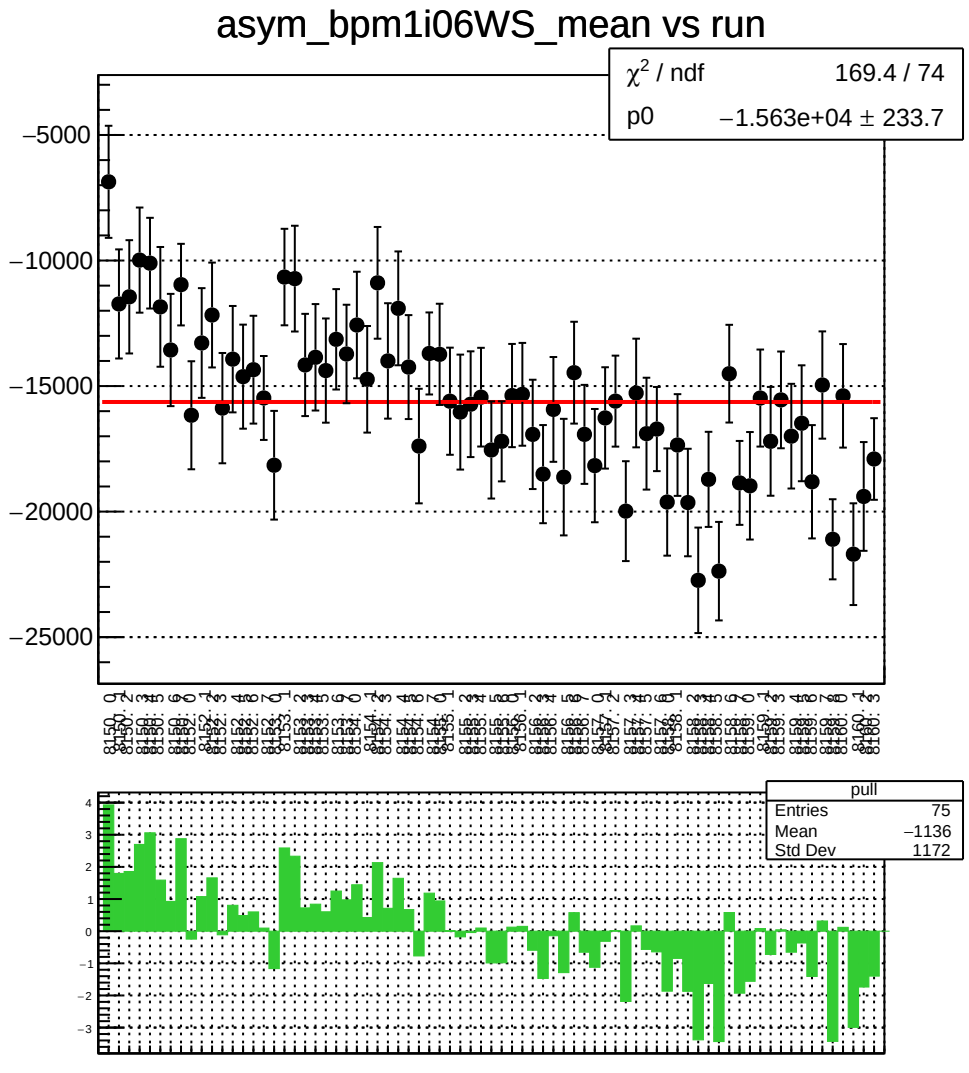

pull1D
Entries 75
Mean 0.01453
Std Dev 1.443

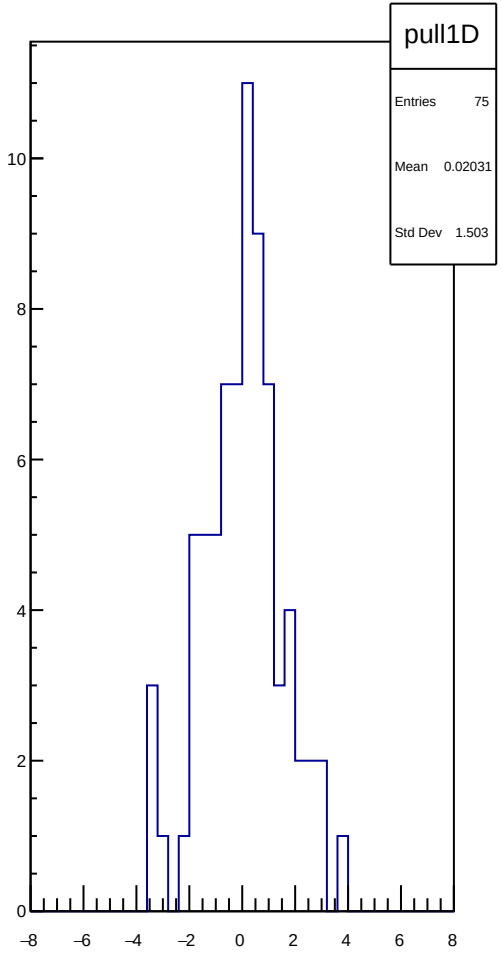

asym_bpm1i02WS_rms vs run
χ² / ndf 2894 / 74
p0 160.4 ± 0.1336
180
175
170
165
160
155
150
145
140

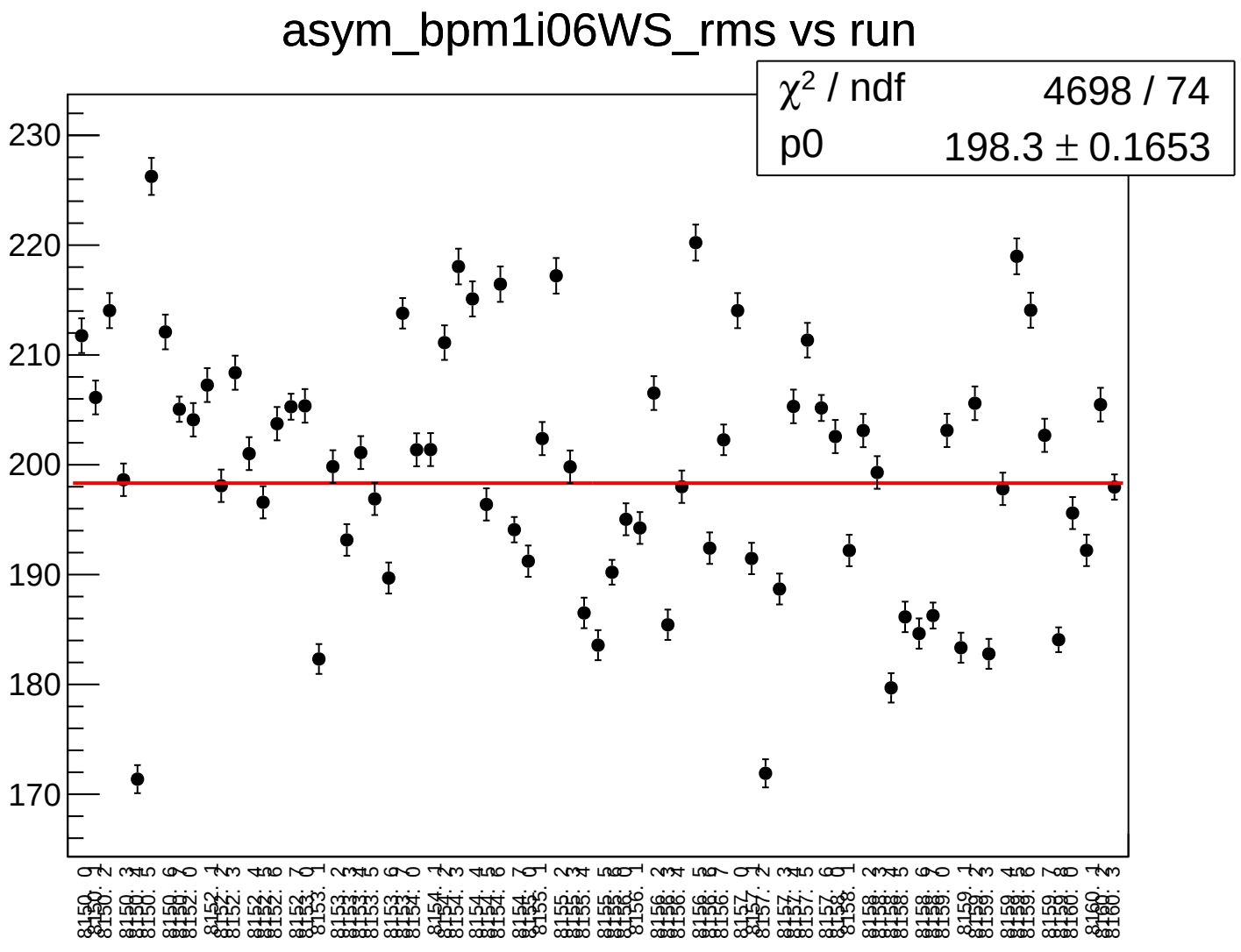

asym_bpm1i04WS_mean vs run
χ² / ndf 180.4 / 74
p0 −1.383e+04 ± 180.9
pull
Entries 75
Mean −1469
Std Dev 1504

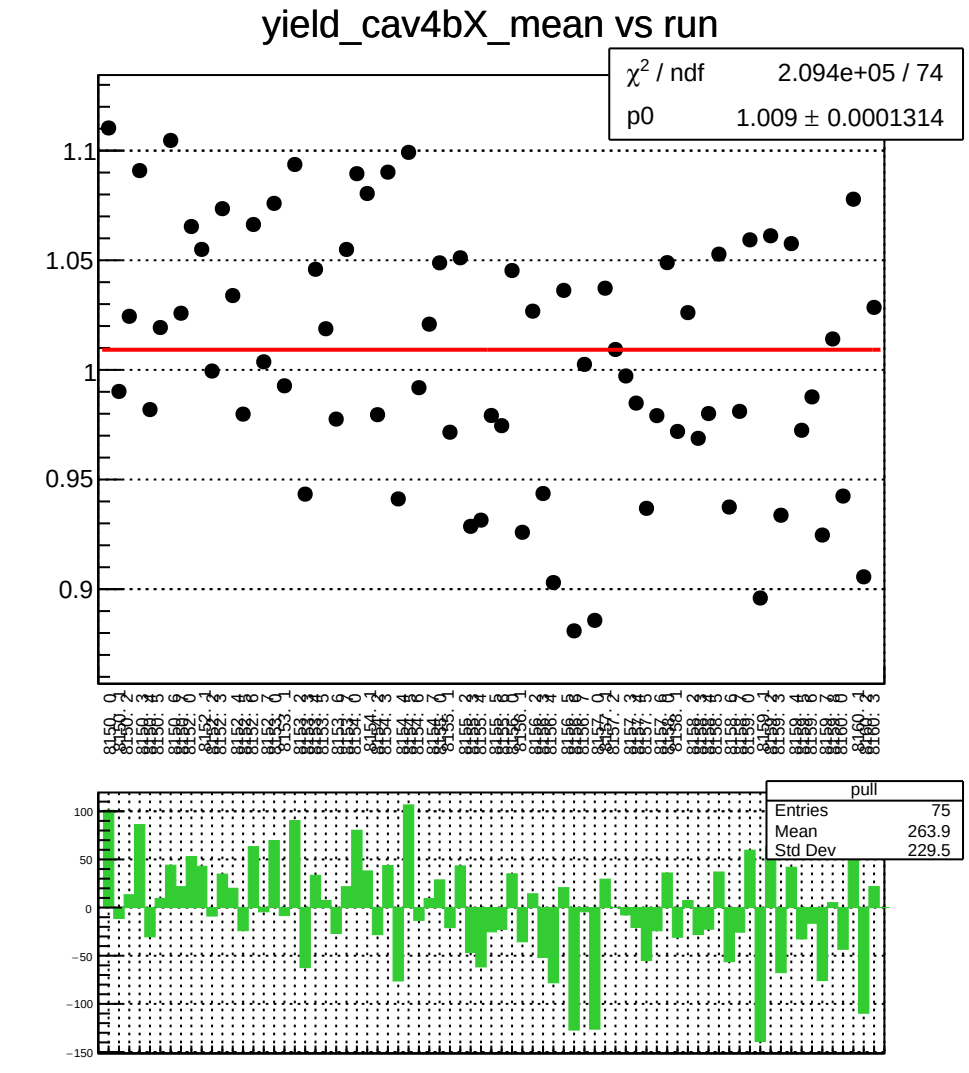

pull1D
Entries 75
Mean 0.01639
Std Dev 1.551

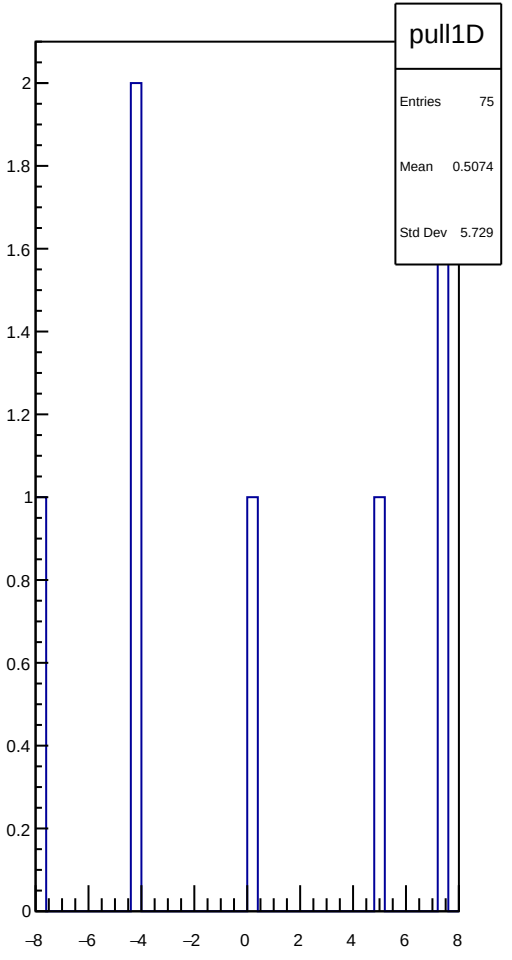

asym_bpm1i04WS_rms vs run
χ^2 / ndf 3395 / 74
p0 153.6 ± 0.1279
175
170
165
160
155
150
145
140
135
130

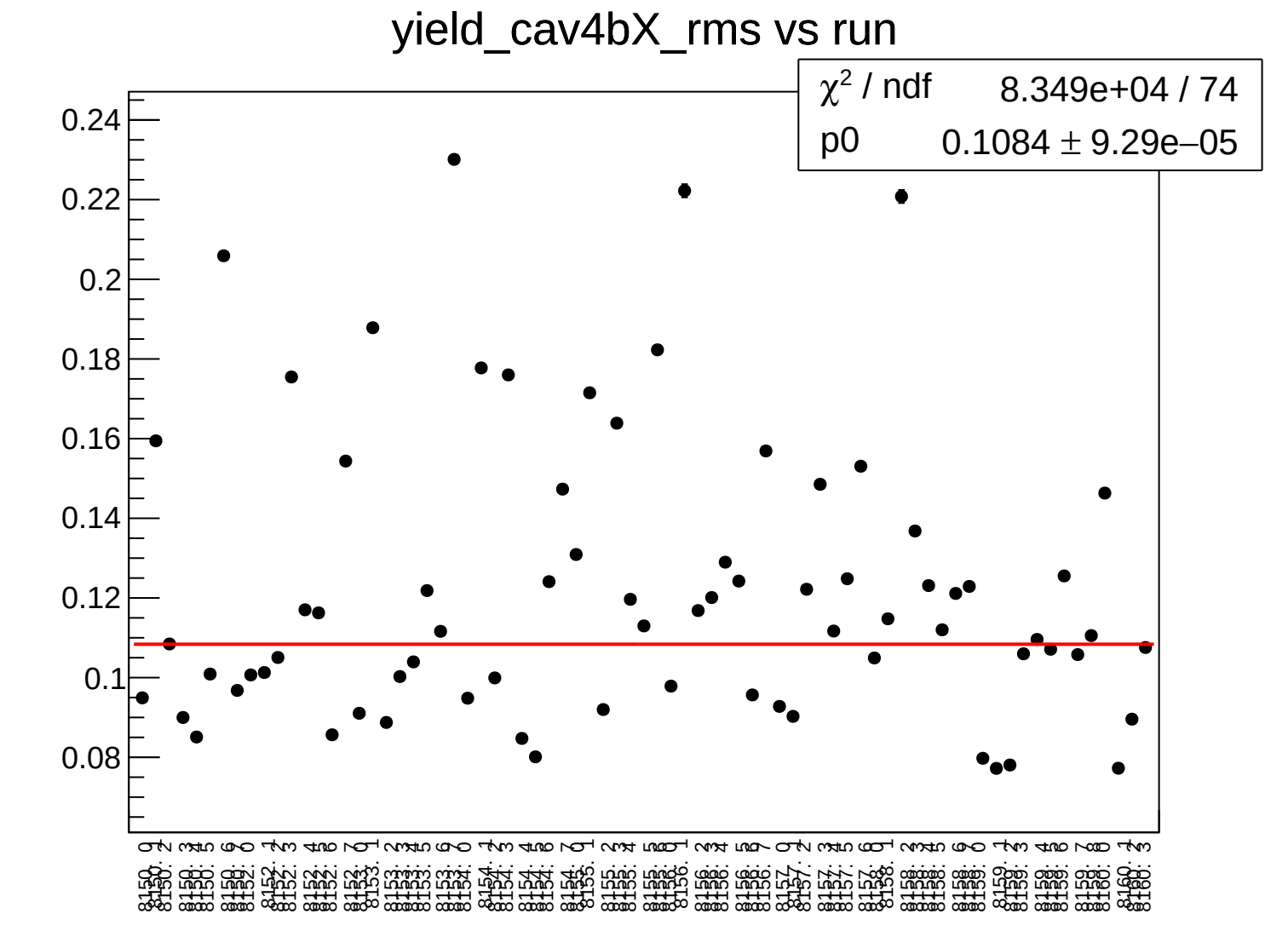

asym_bpm1i06WS_mean vs run
χ² / ndf 169.4 / 74
p0 −1.563e+04 ± 233.7
−5000
−10000
−15000
−20000
−25000
pull
Entries 75
Mean −1136
Std Dev 1172
4
3
2
1
0
−1
−2
−3

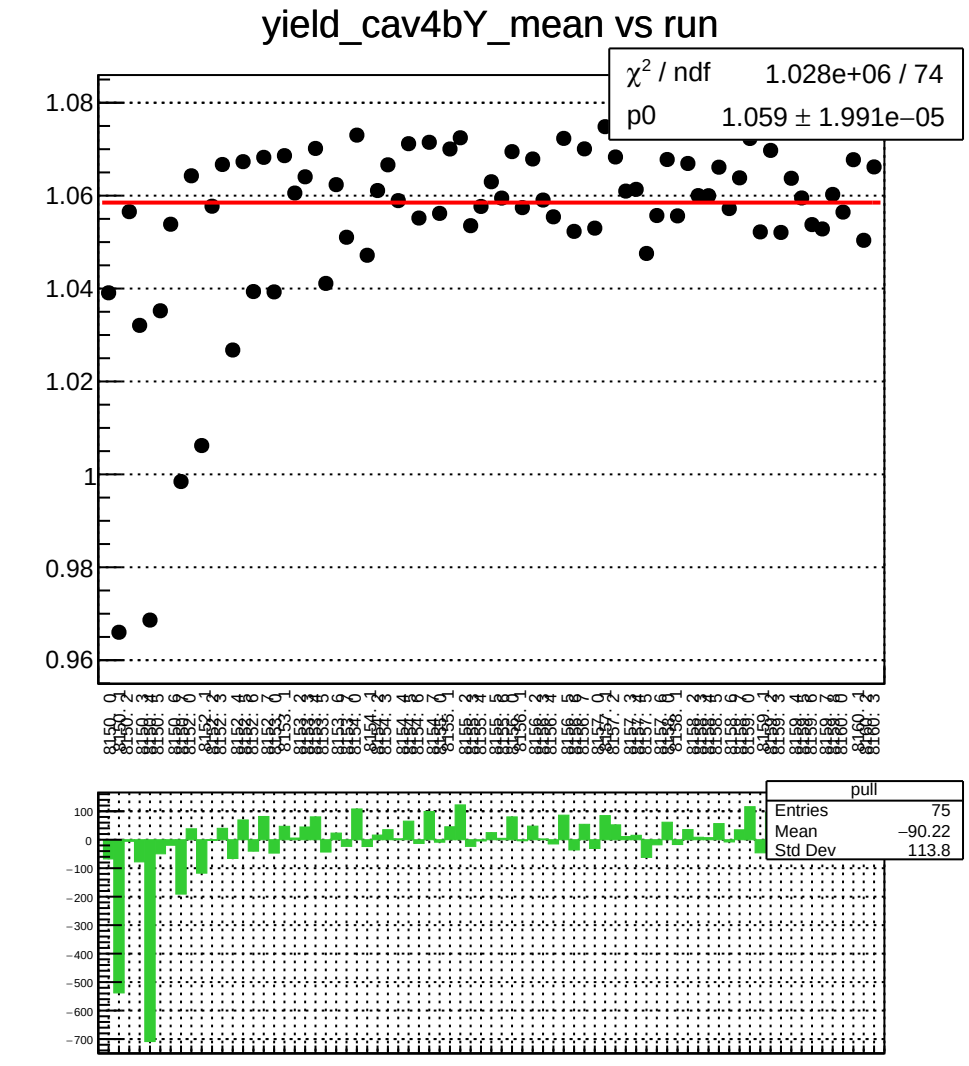

pull1D
Entries 75
Mean 0.02031
Std Dev 1.503
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

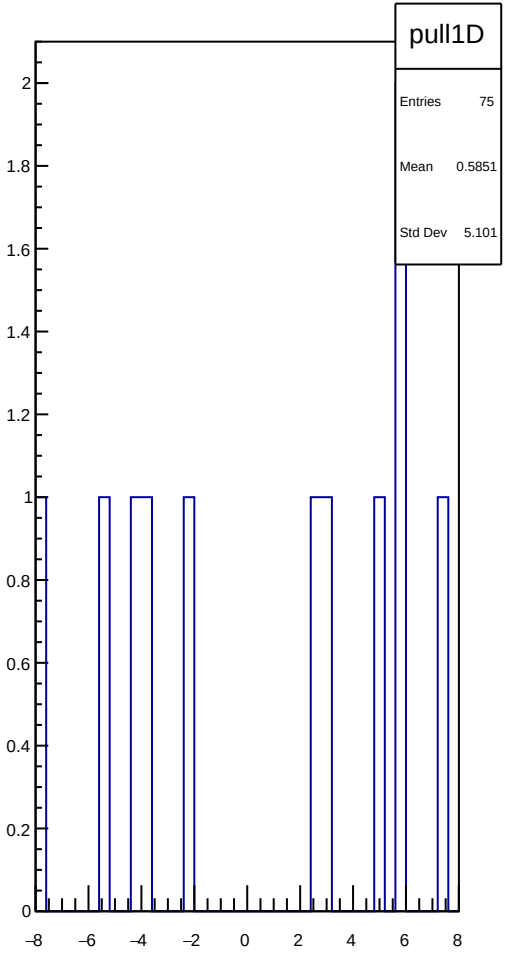

asym_bpm1i06WS_rms vs run
χ² / ndf 4698 / 74
p0 198.3 ± 0.1653
230
220
210
200
190
180
170

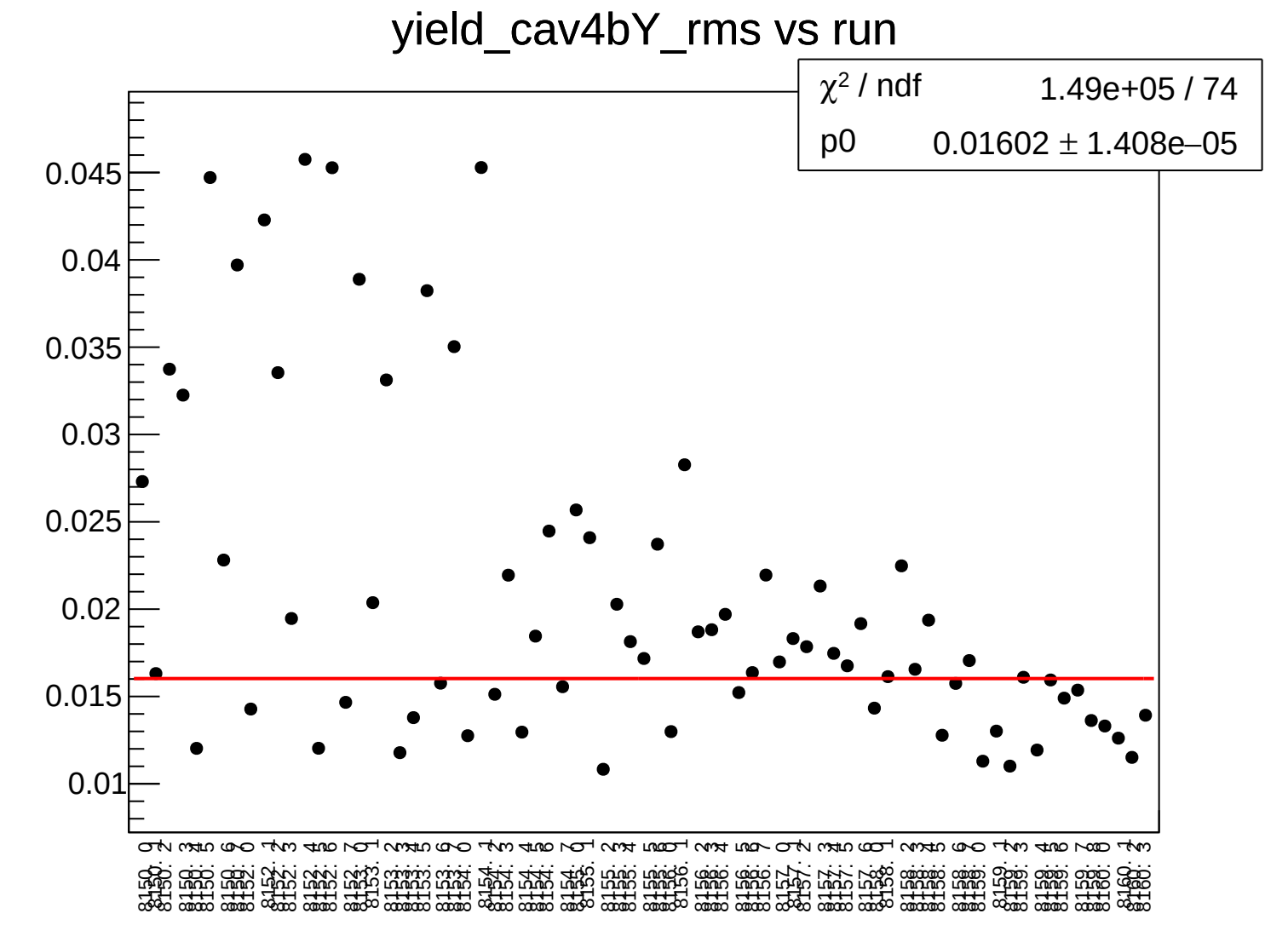

yield_cav4bX_mean vs run
χ² / ndf 2.094e+05 / 74
p0 1.009 ± 0.0001314
1.1
1.05
1
0.95
0.9
pull
Entries 75
Mean 263.9
Std Dev 229.5
100
50
0
−50
−100
−150

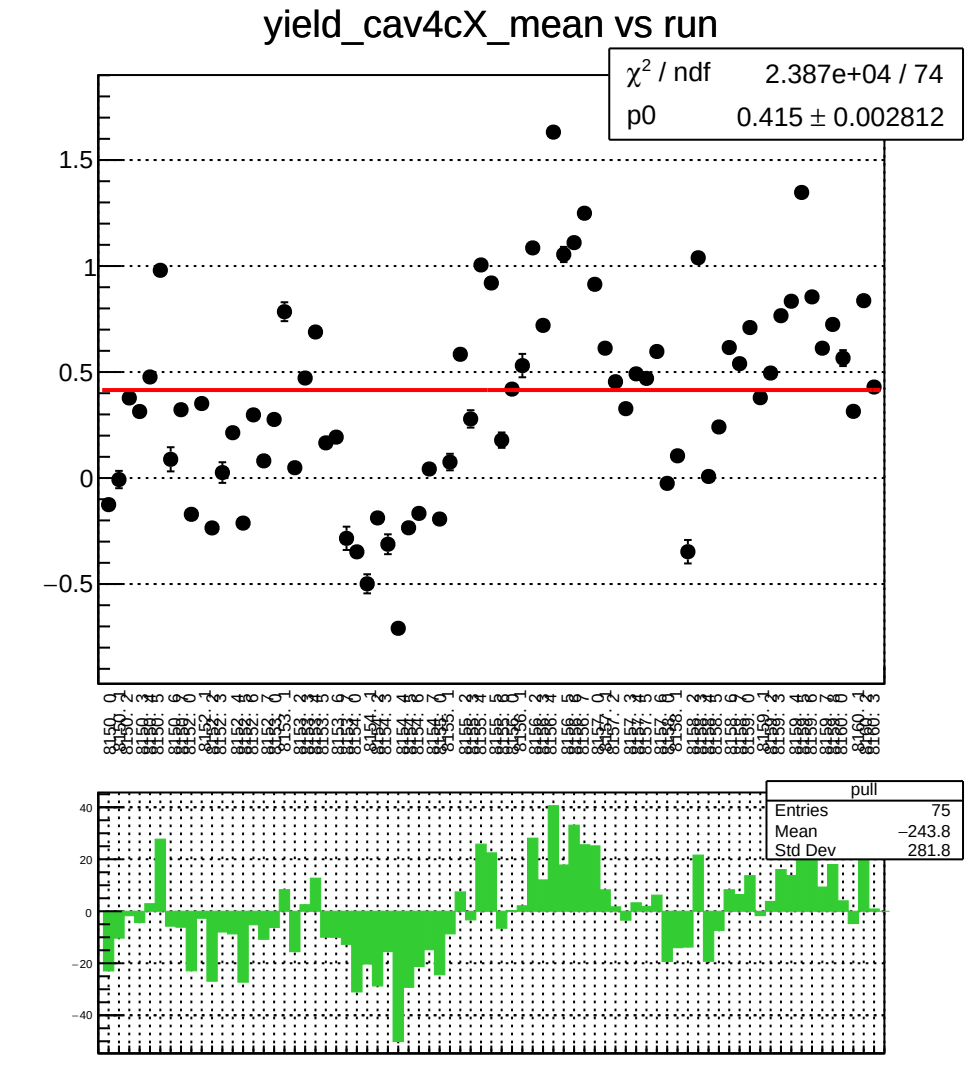

pull1D
Entries 75
Mean 0.5074
Std Dev 5.729
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

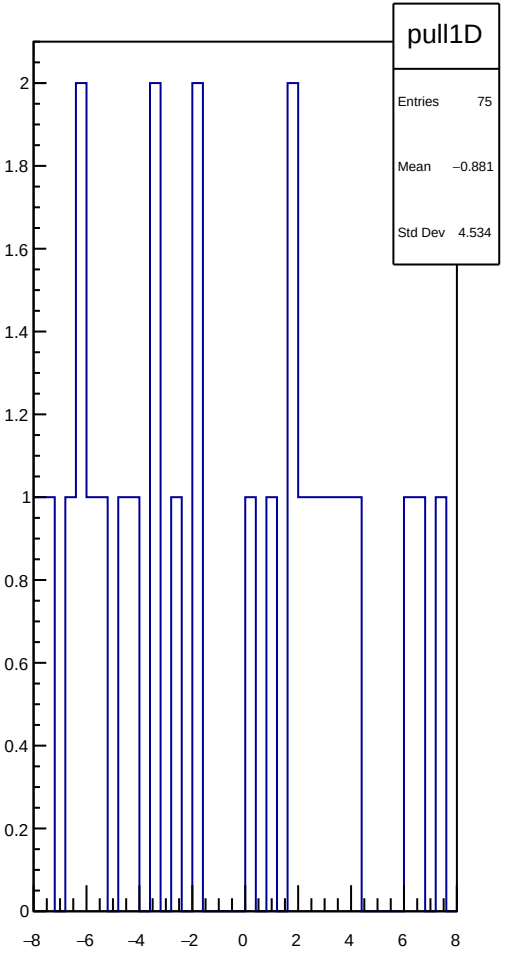

yield_cav4bX_rms vs run
χ² / ndf 8.349e+04 / 74
p0 0.1084 ± 9.29e−05
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

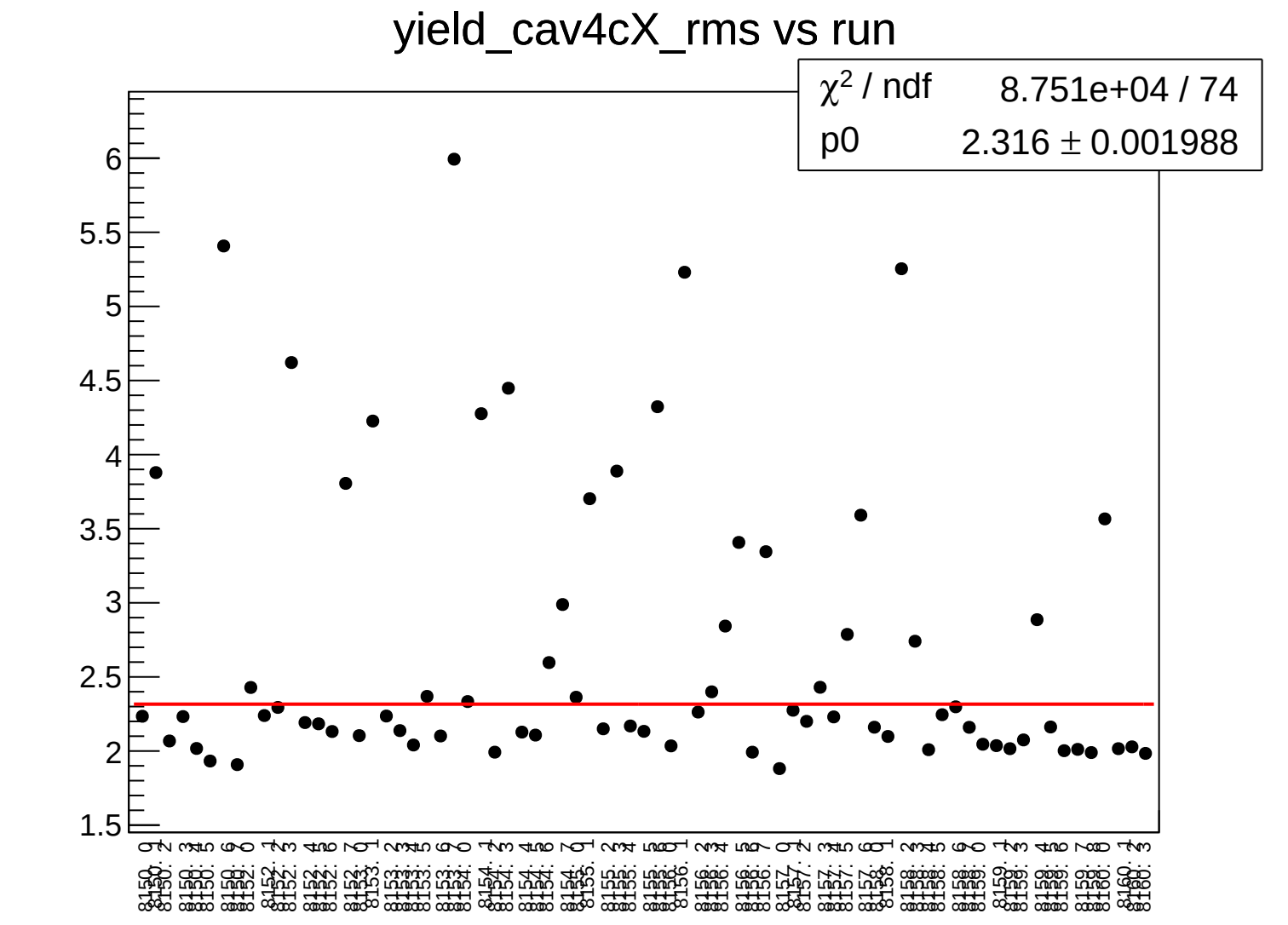

yield_cav4bY_mean vs run
χ² / ndf 1.028e+06 / 74
p0 1.059 ± 1.991e−05
1.08
1.06
1.04
1.02
1
0.98
0.96
pull
Entries 75
Mean −90.22
Std Dev 113.8
100
0
−100
−200
−300
−400
−500
−600
−700

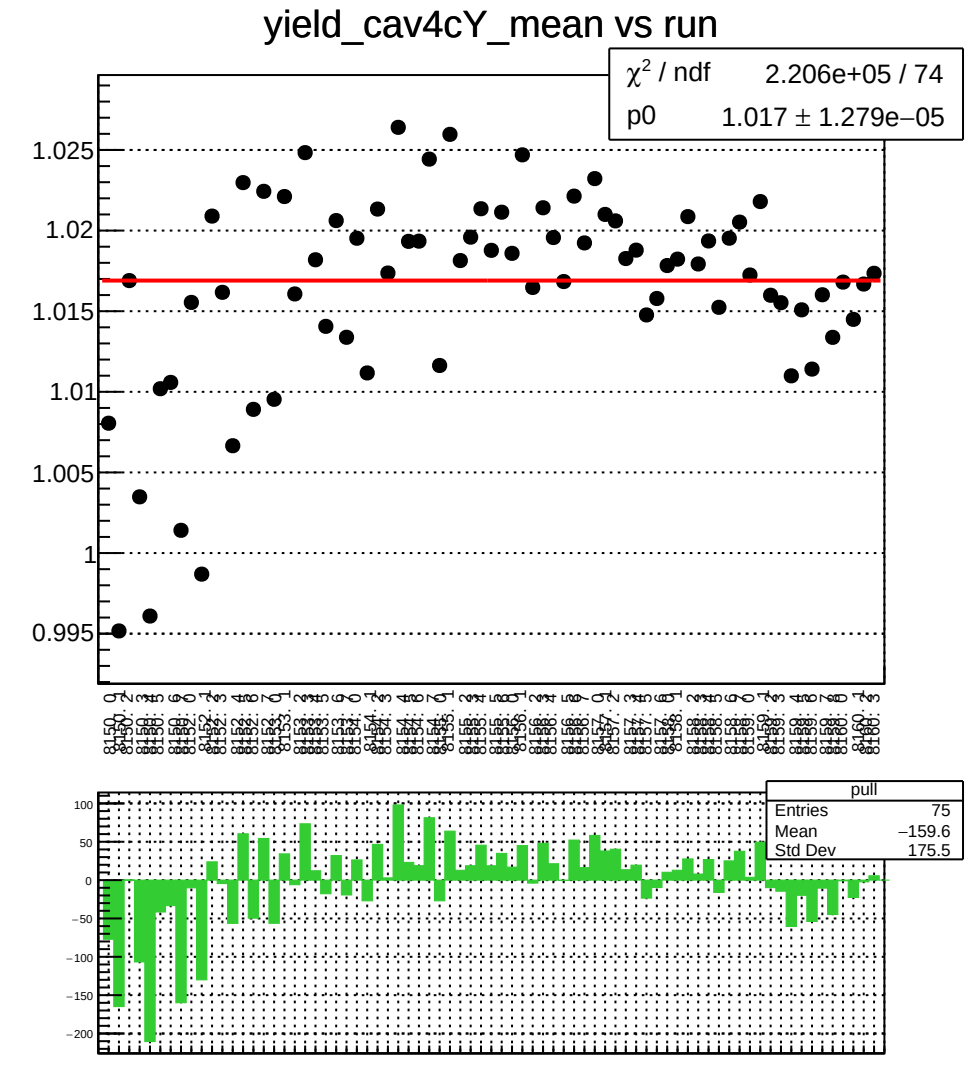

pull1D
Entries 75
Mean 0.5851
Std Dev 5.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

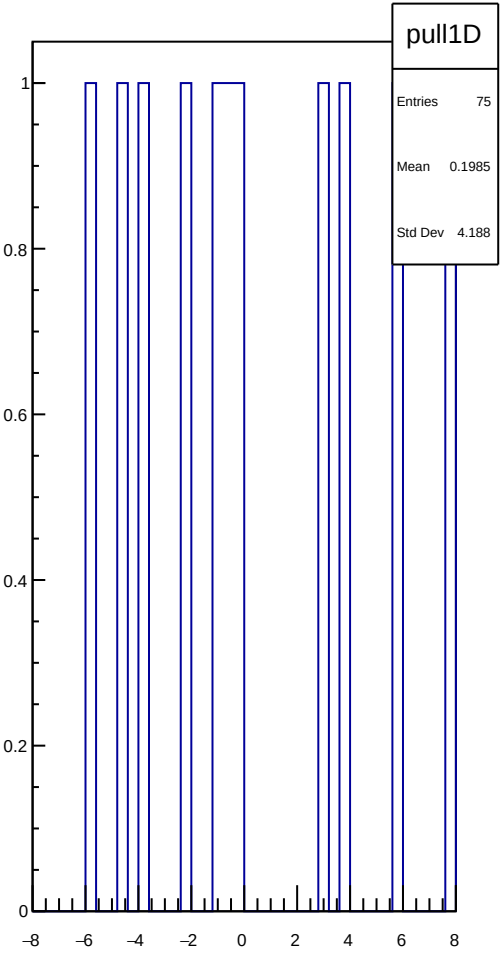

yield_cav4bY_rms vs run
χ² / ndf 1.49e+05 / 74
p0 0.01602 ± 1.408e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

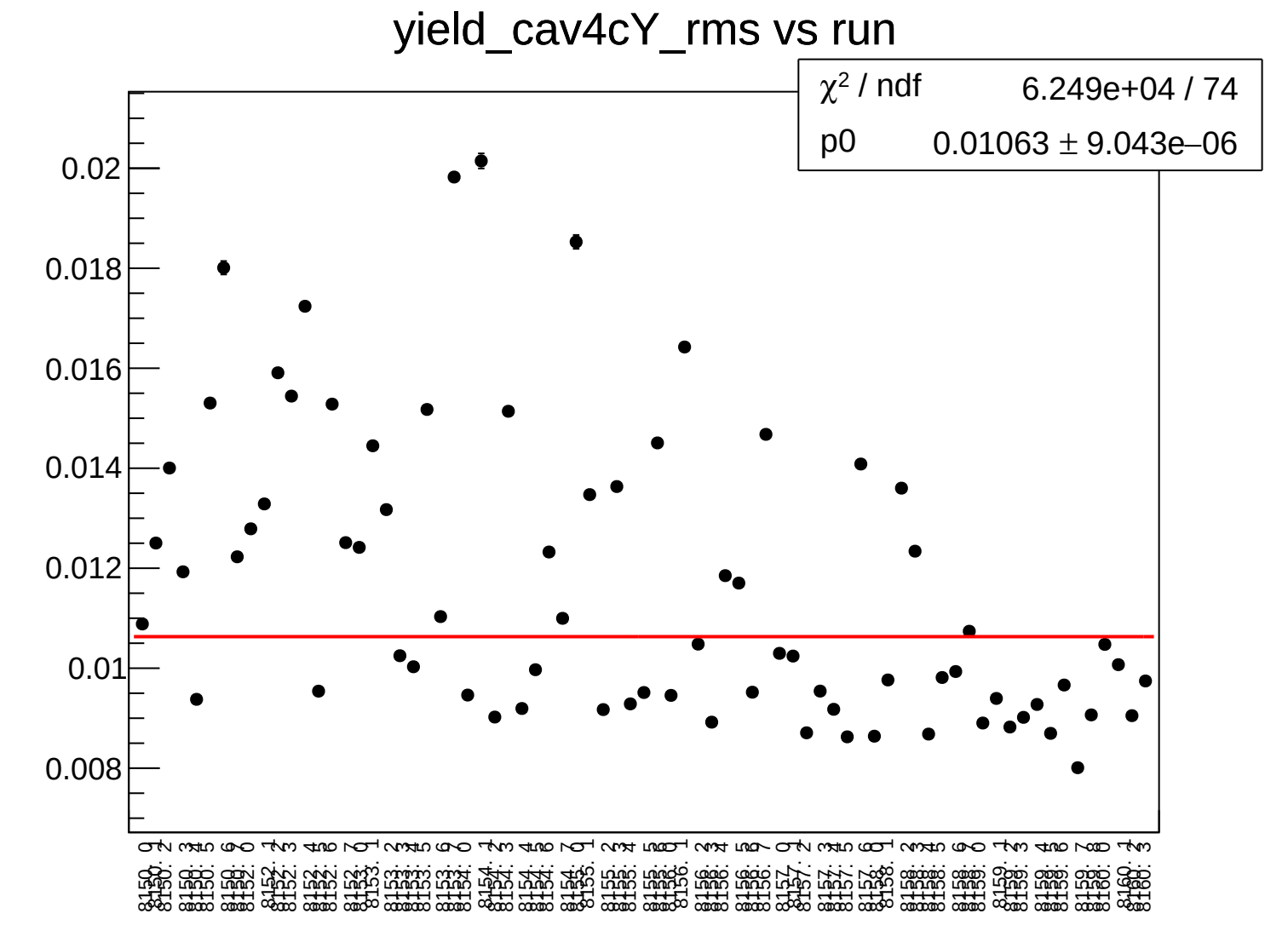

yield_cav4cX_mean vs run
χ² / ndf 2.387e+04 / 74
p0 0.415 ± 0.002812
1.5
1
0.5
0
−0.5
pull
Entries 75
Mean −243.8
Std Dev 281.8
40
20
0
−20
−40

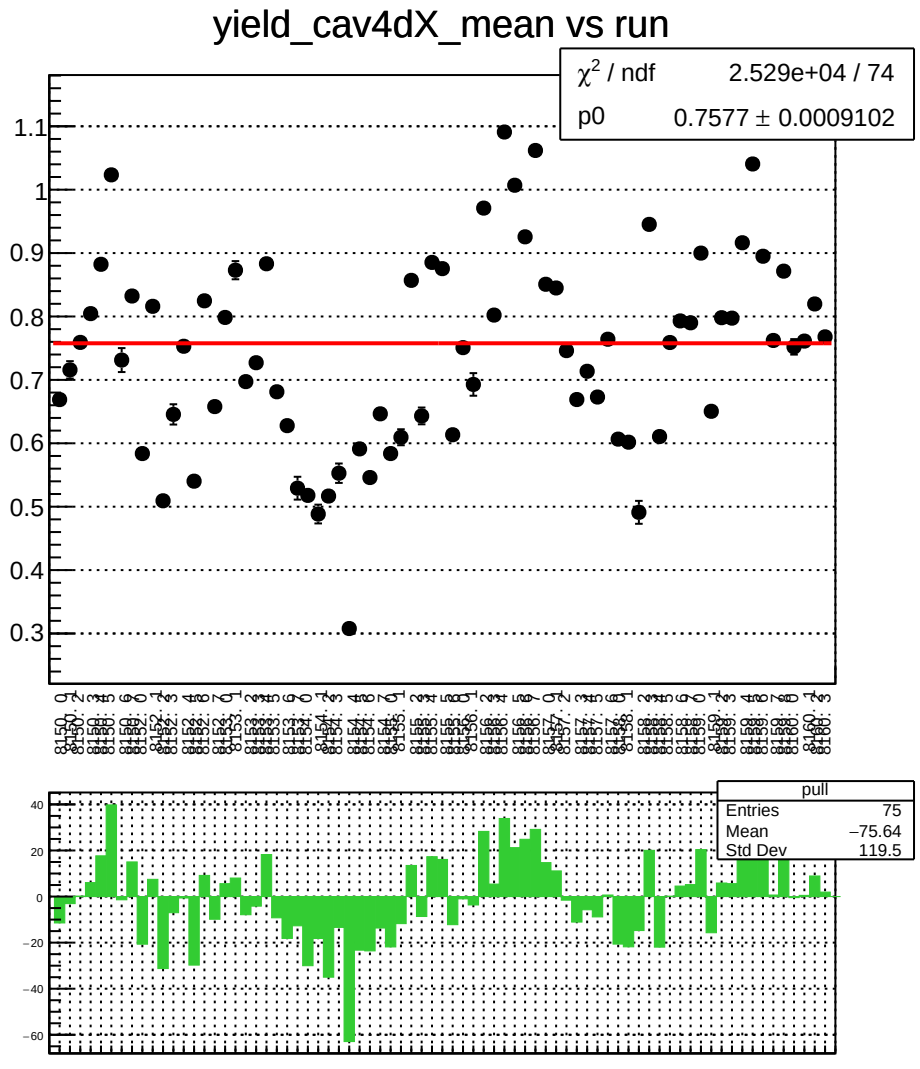

pull1D
Entries 75
Mean −0.881
Std Dev 4.534
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

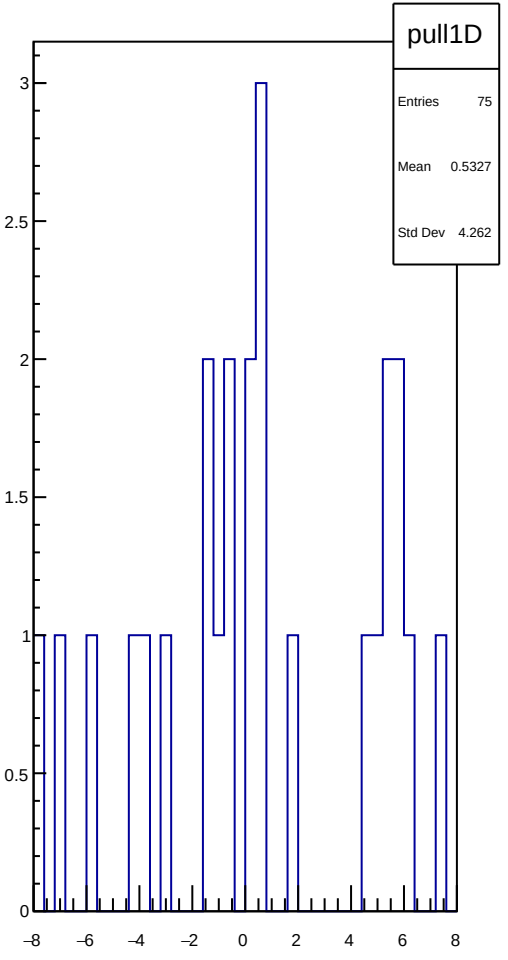

yield_cav4cX_rms vs run
χ^2 / ndf 8.751e+04 / 74
p0 2.316 ± 0.001988
6
5.5
5
4.5
4
3.5
3
2.5
2
1.5

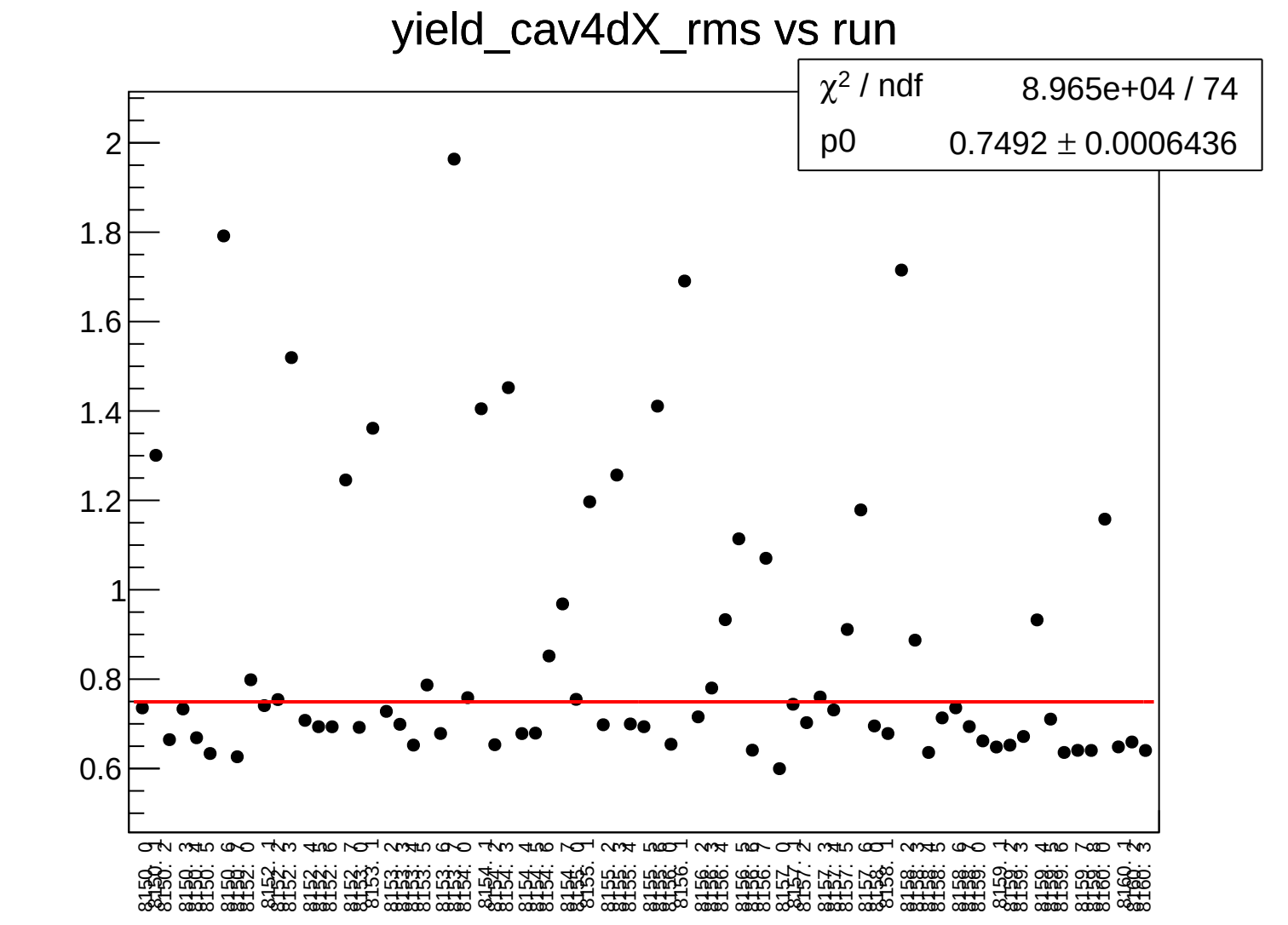

yield_cav4cY_mean vs run
χ² / ndf 2.206e+05 / 74
p0 1.017 ± 1.279e−05
1.025
1.02
1.015
1.01
1.005
1
0.995
pull
Entries 75
Mean −159.6
Std Dev 175.5
100
50
0
−50
−100
−150
−200

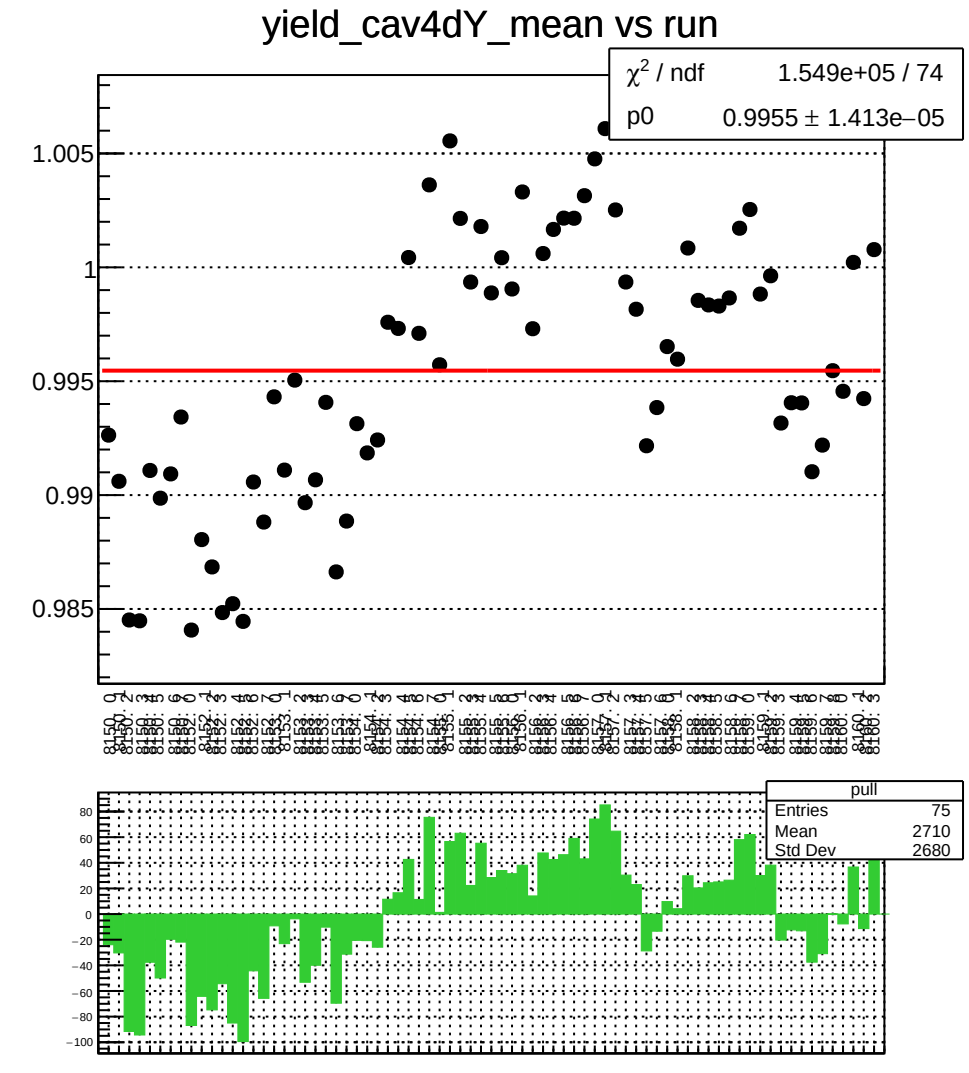

pull1D
Entries 75
Mean 0.1985
Std Dev 4.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

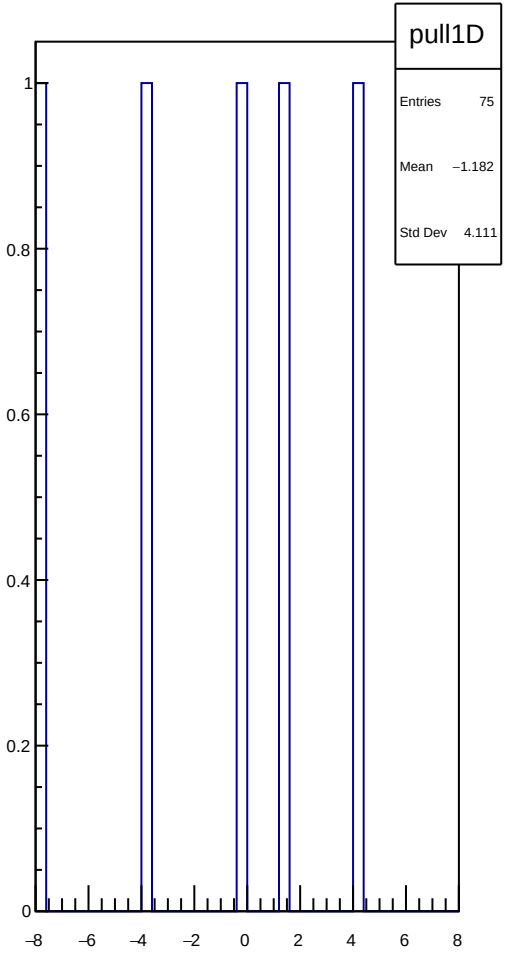

yield_cav4cY_rms vs run
χ² / ndf 6.249e+04 / 74
p0 0.01063 ± 9.043e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

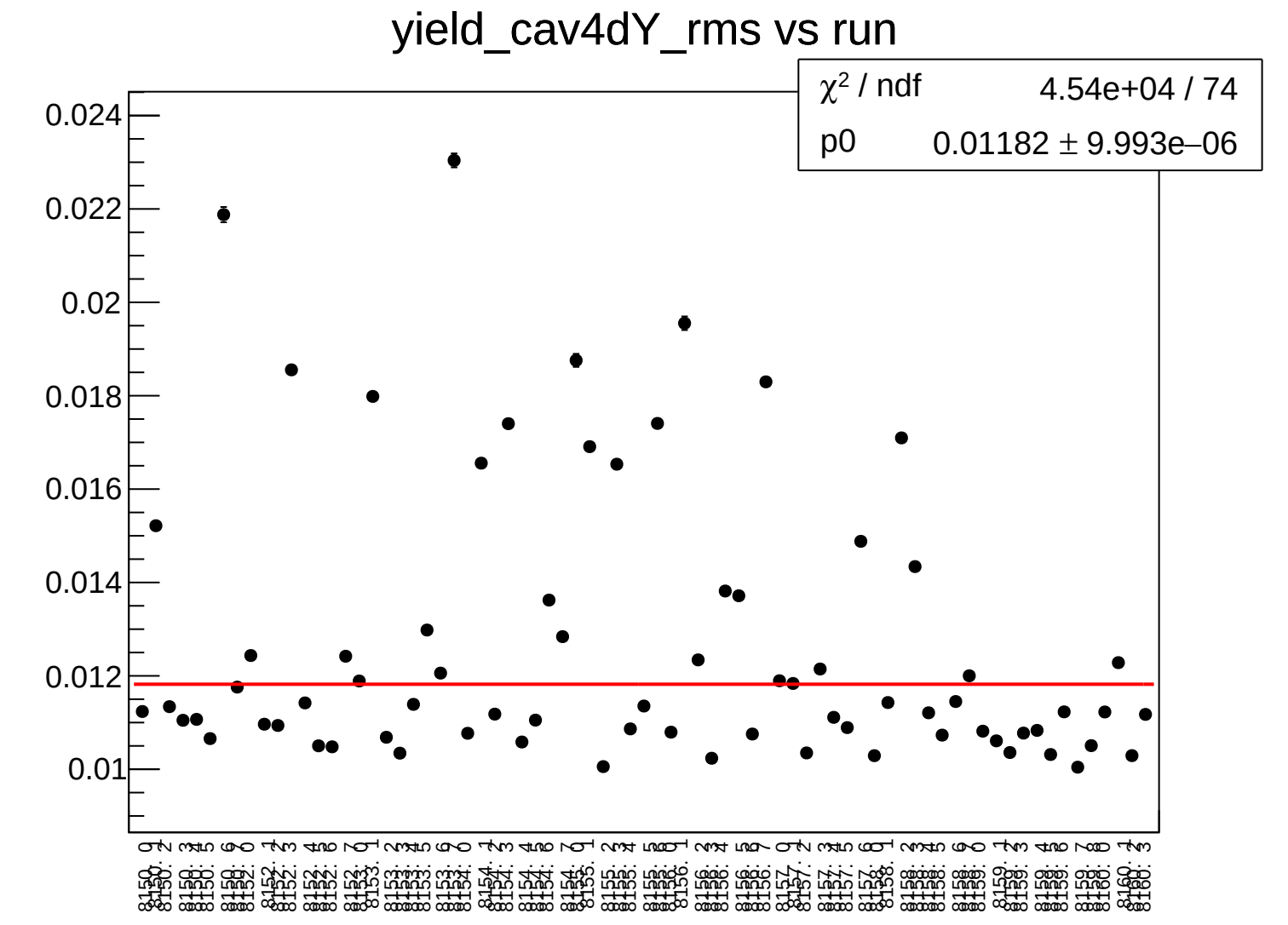

yield_cav4dX_mean vs run
χ² / ndf 2.529e+04 / 74
p0 0.7577 ± 0.0009102
pull
Entries 75
Mean −75.64
Std Dev 119.5

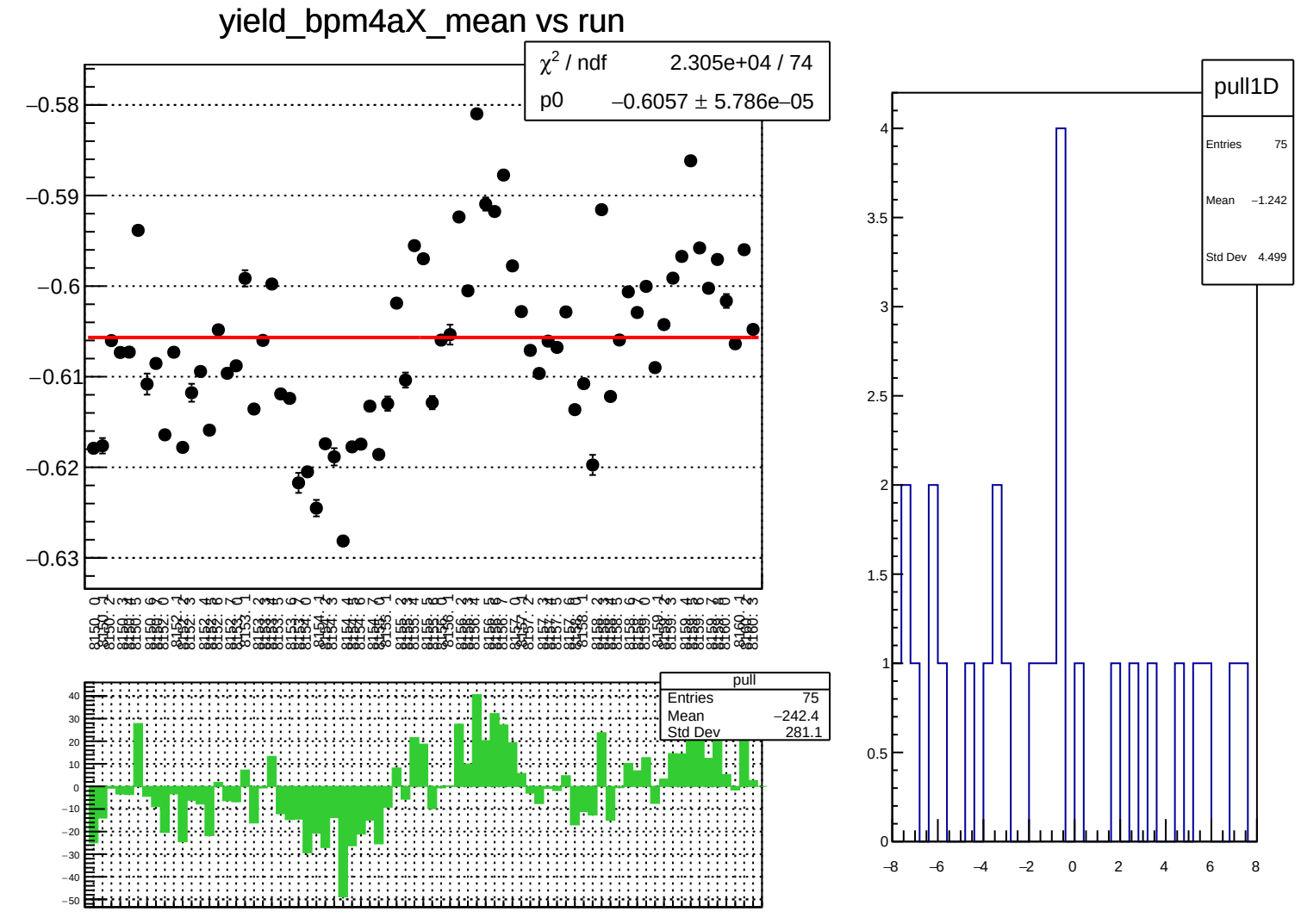

pull1D
Entries 75
Mean 0.5327
Std Dev 4.262

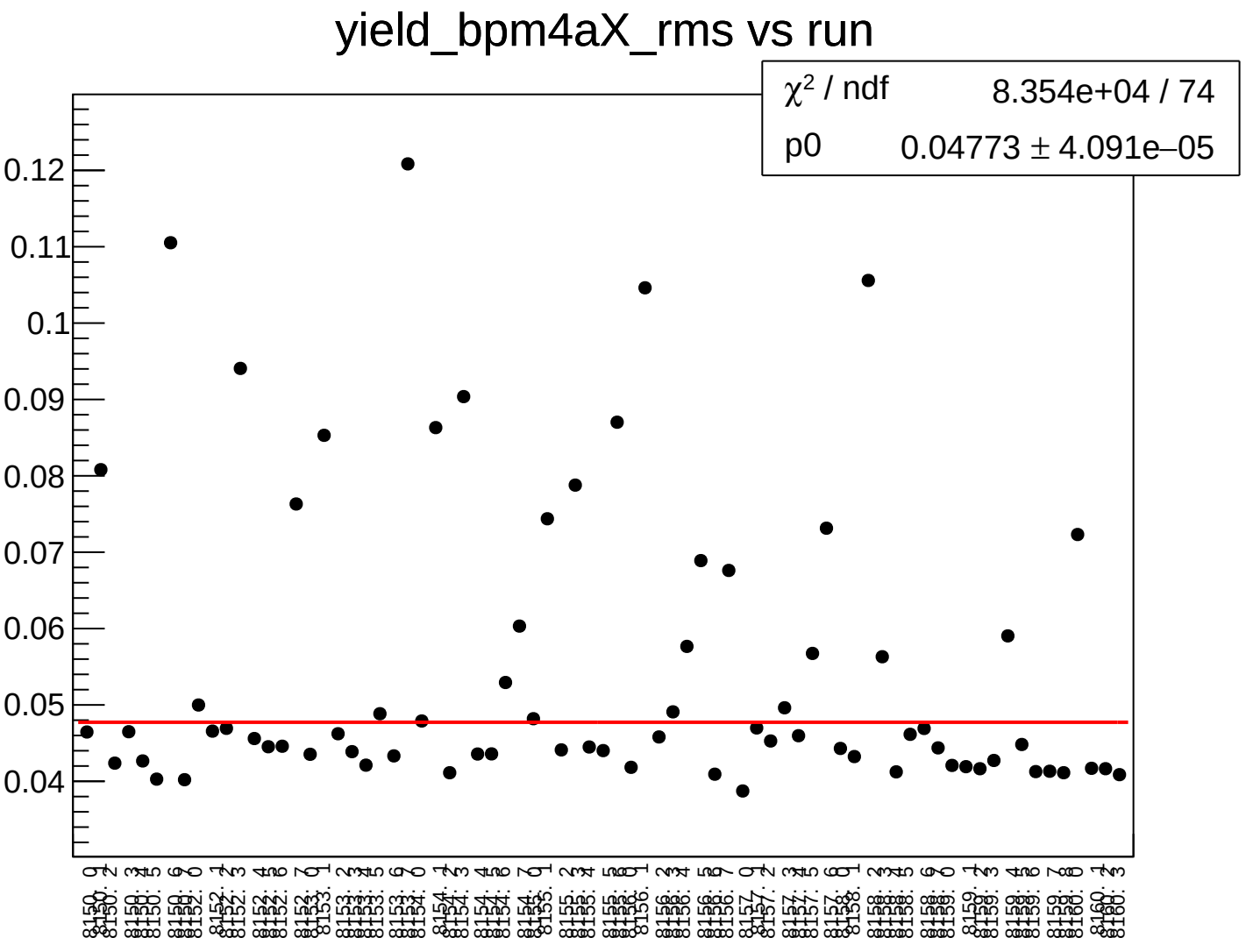

yield_cav4dX_rms vs run
χ² / ndf 8.965e+04 / 74
p0 0.7492 ± 0.0006436
2
1.8
1.6
1.4
1.2
1
0.8
0.6

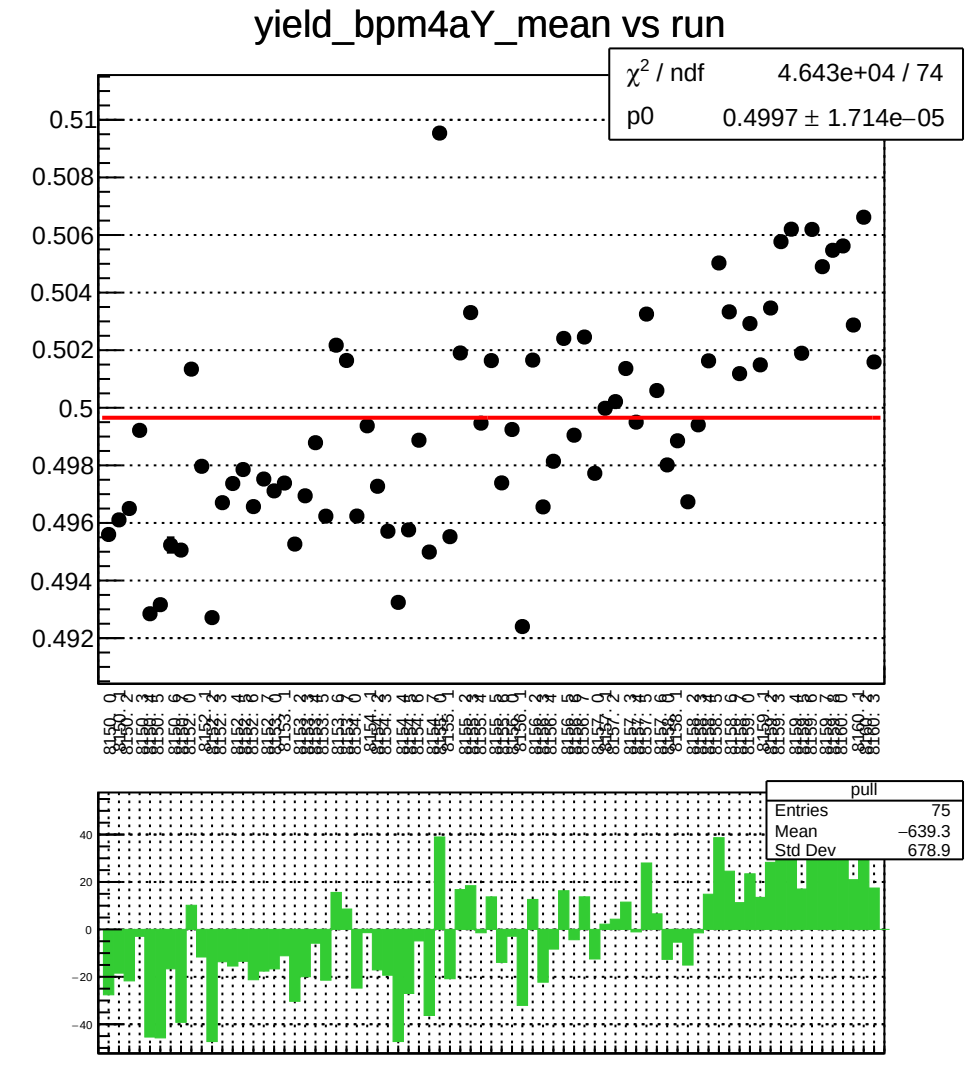

yield_cav4dY_mean vs run
χ² / ndf 1.549e+05 / 74
p0 0.9955 ± 1.413e−05
1.005
1
0.995
0.99
0.985
pull
Entries 75
Mean 2710
Std Dev 2680
80
60
40
20
0
−20
−40
−60
−80
−100

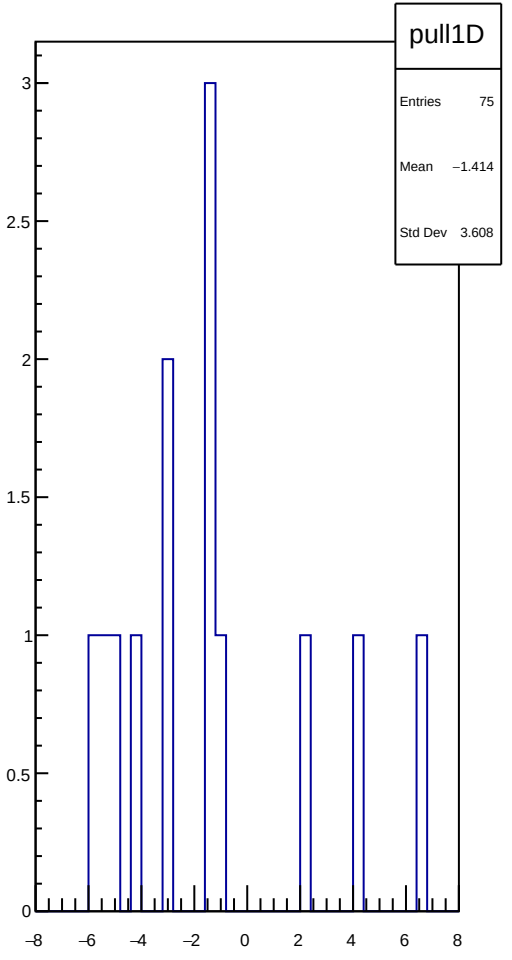

pull1D
Entries 75
Mean −1.182
Std Dev 4.111
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

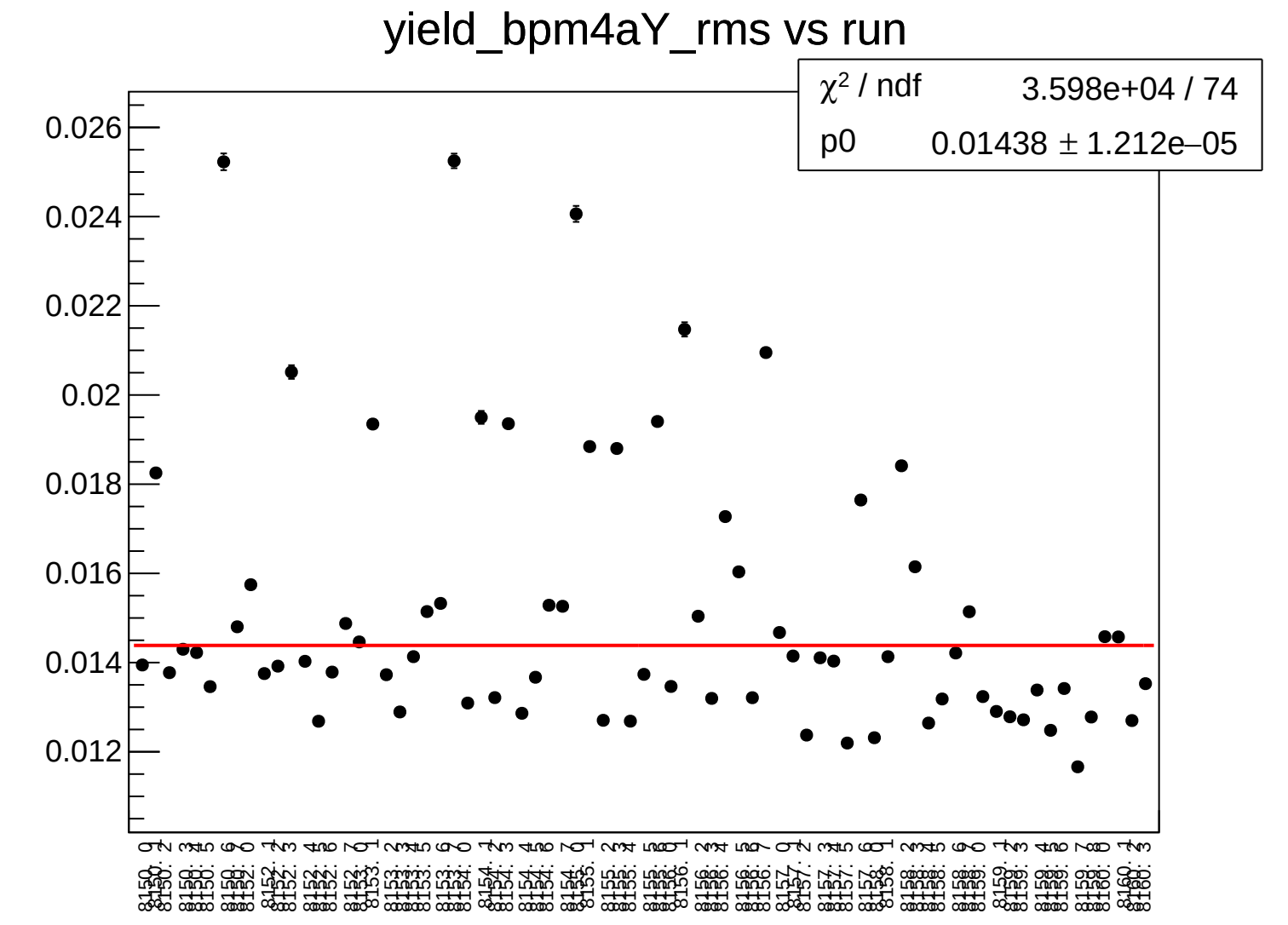

yield_cav4dY_rms vs run
χ² / ndf 4.54e+04 / 74
p0 0.01182 ± 9.993e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

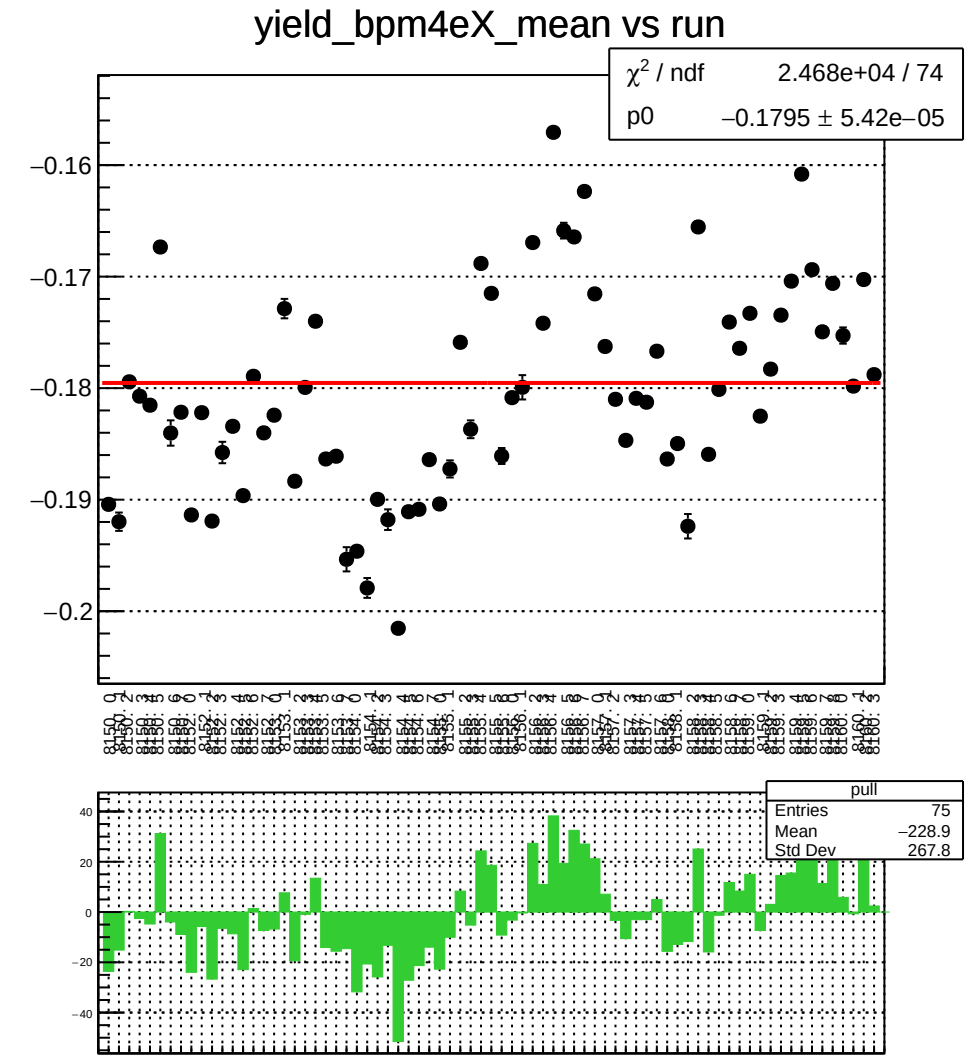

yield_bpm4aX_mean vs run
χ² / ndf 2.305e+04 / 74
p0 −0.6057 ± 5.786e−05
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
pull
Entries 75
Mean −242.4
Std Dev 281.1
pull1D
Entries 75
Mean −1.242
Std Dev 4.499

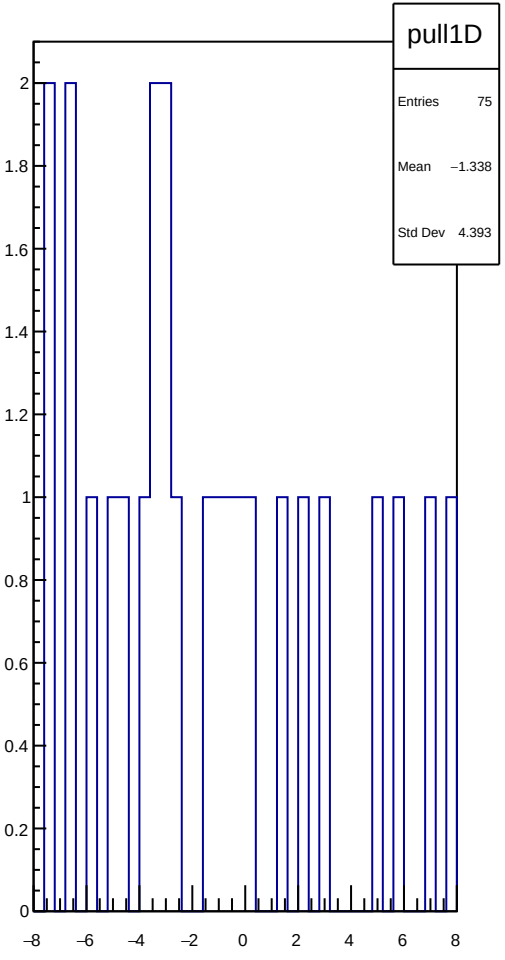

yield_bpm4aX_rms vs run
χ² / ndf 8.354e+04 / 74
p0 0.04773 ± 4.091e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

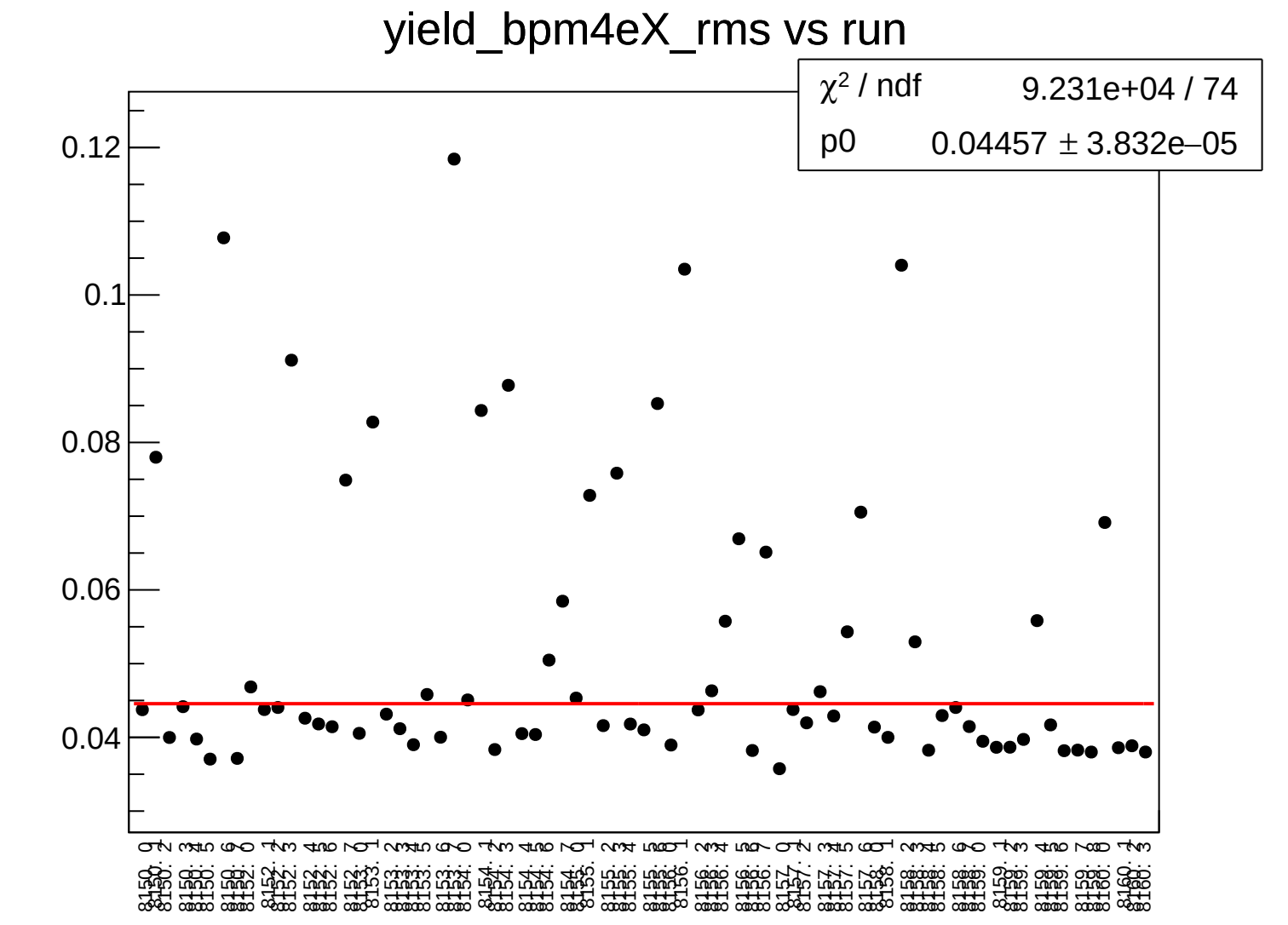

yield_bpm4aY_mean vs run
χ² / ndf 4.643e+04 / 74
p0 0.4997 ± 1.714e−05
0.51
0.508
0.506
0.504
0.502
0.5
0.498
0.496
0.494
0.492
pull
Entries 75
Mean −639.3
Std Dev 678.9
40
20
0
−20
−40

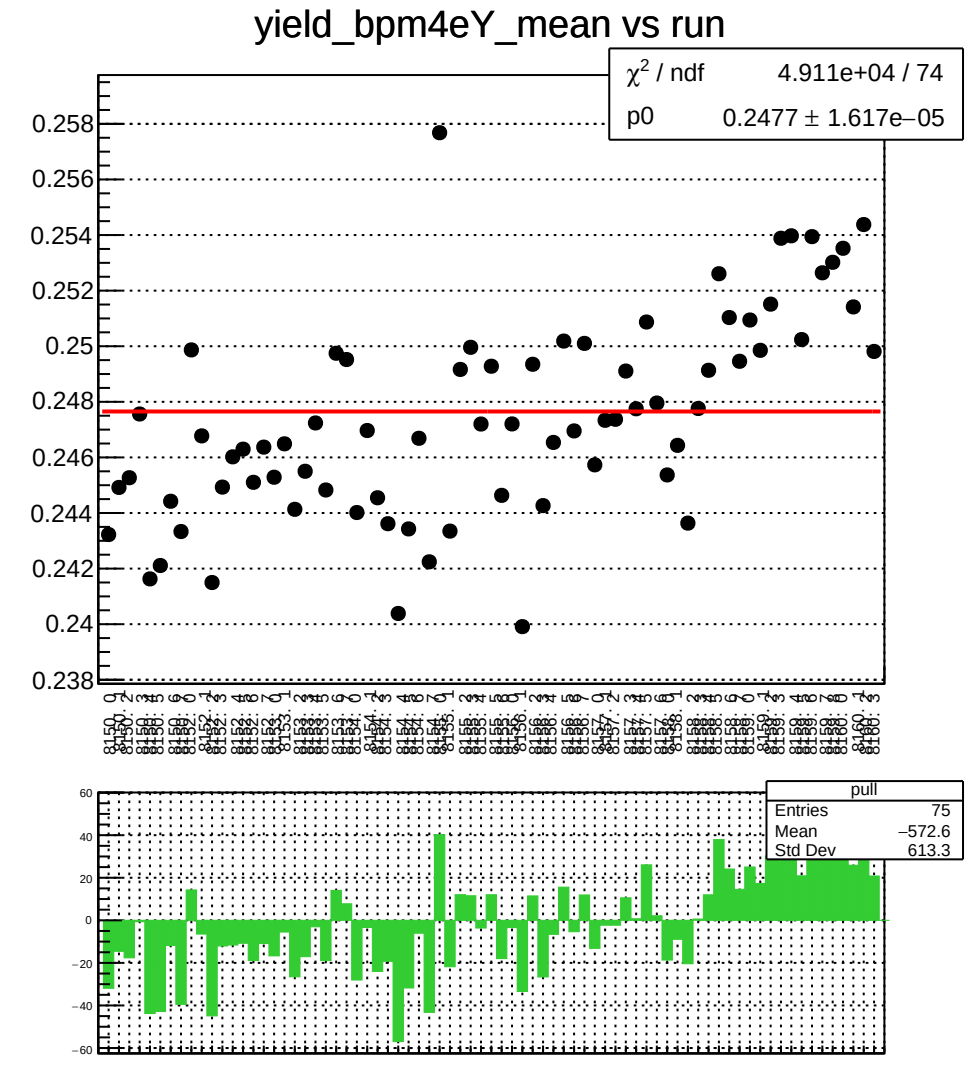

pull1D
Entries 75
Mean −1.414
Std Dev 3.608
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

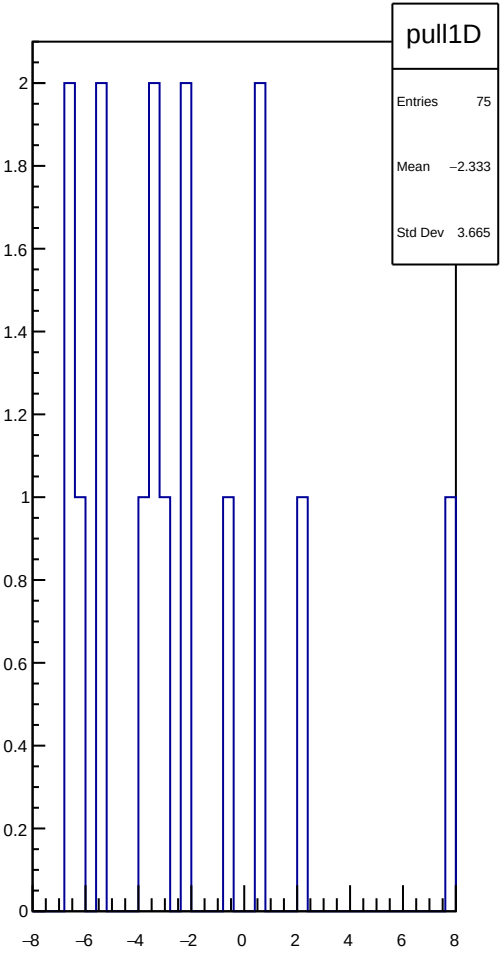

yield_bpm4aY_rms vs run
χ² / ndf 3.598e+04 / 74
p0 0.01438 ± 1.212e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

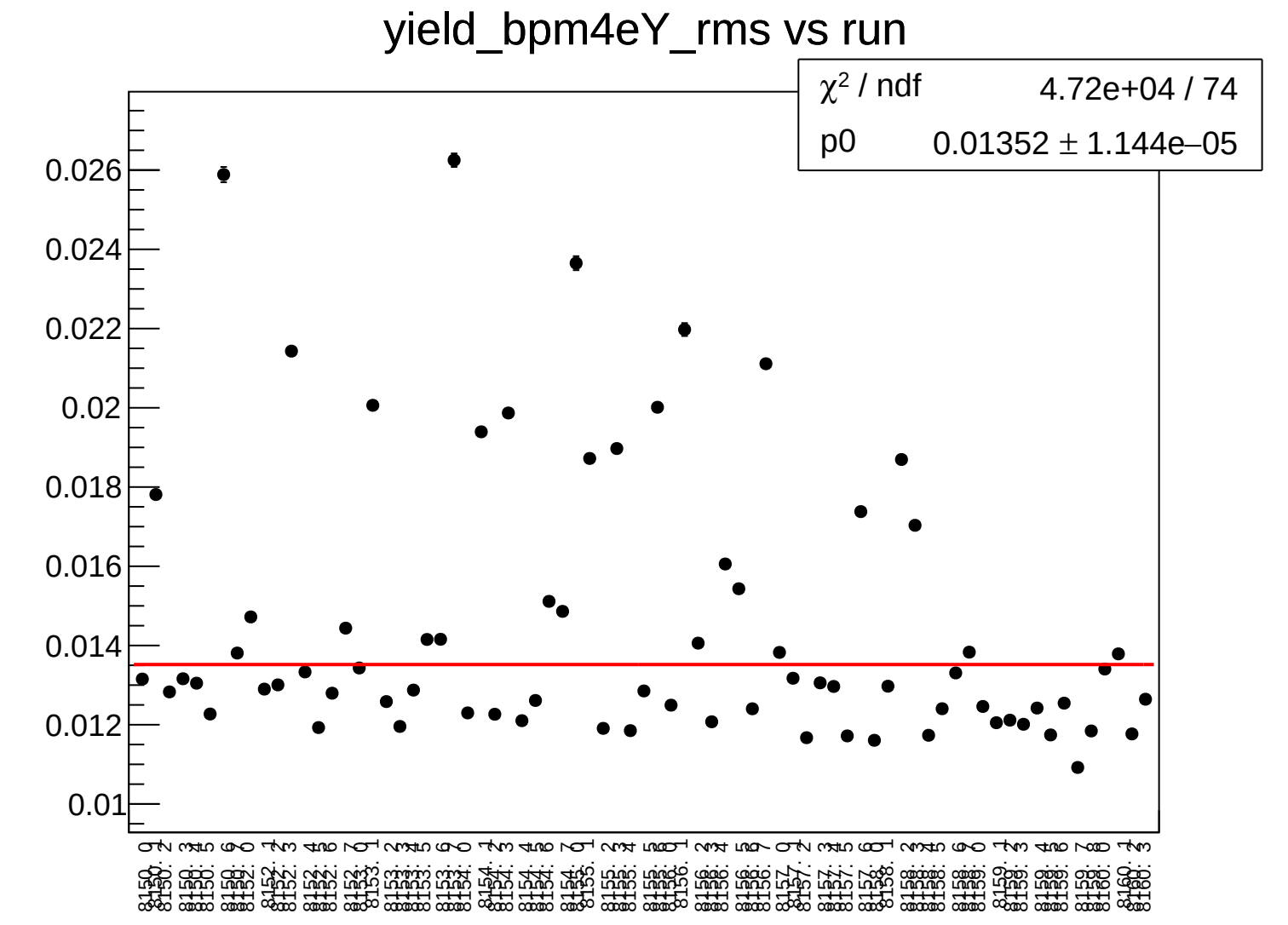

yield_bpm4eX_mean vs run
χ² / ndf 2.468e+04 / 74
p0 −0.1795 ± 5.42e−05
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 75
Mean −228.9
Std Dev 267.8
40
20
0
−20
−40

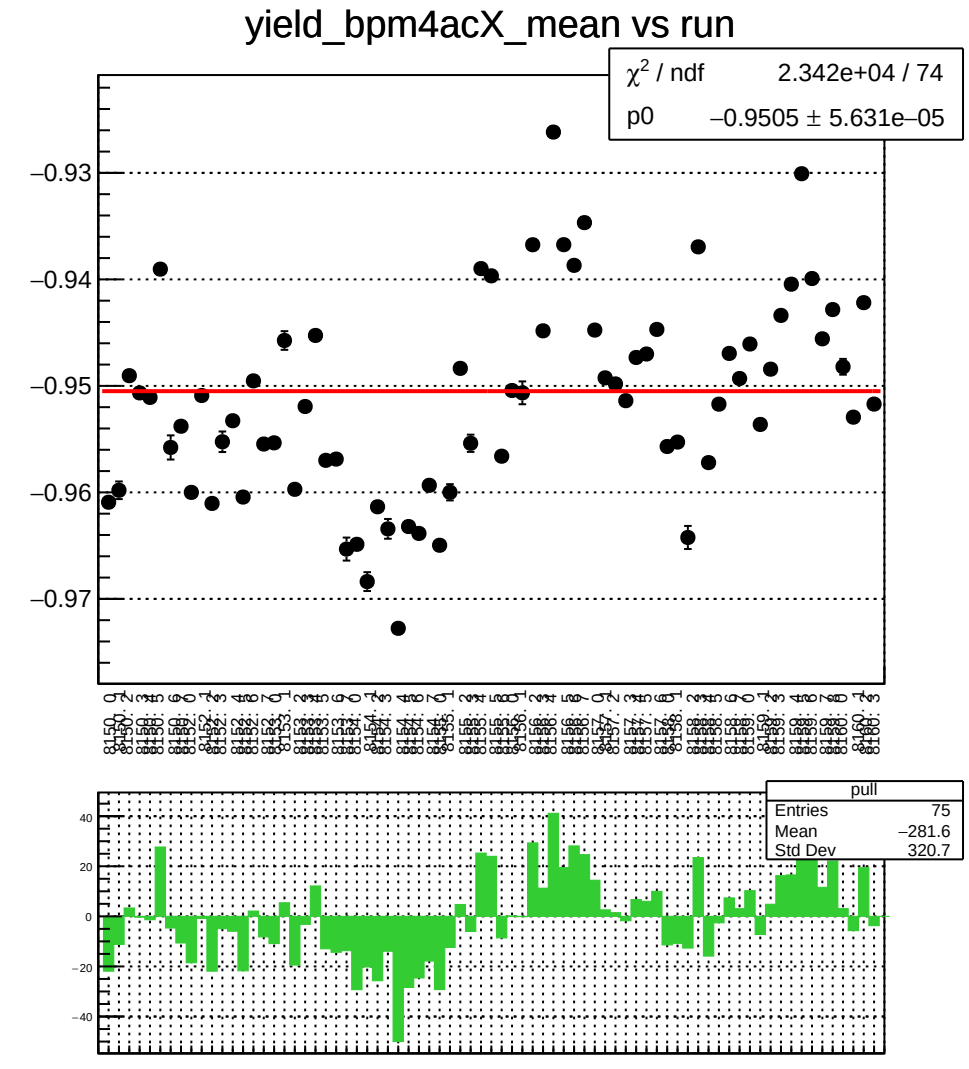

pull1D
Entries 75
Mean −1.338
Std Dev 4.393
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

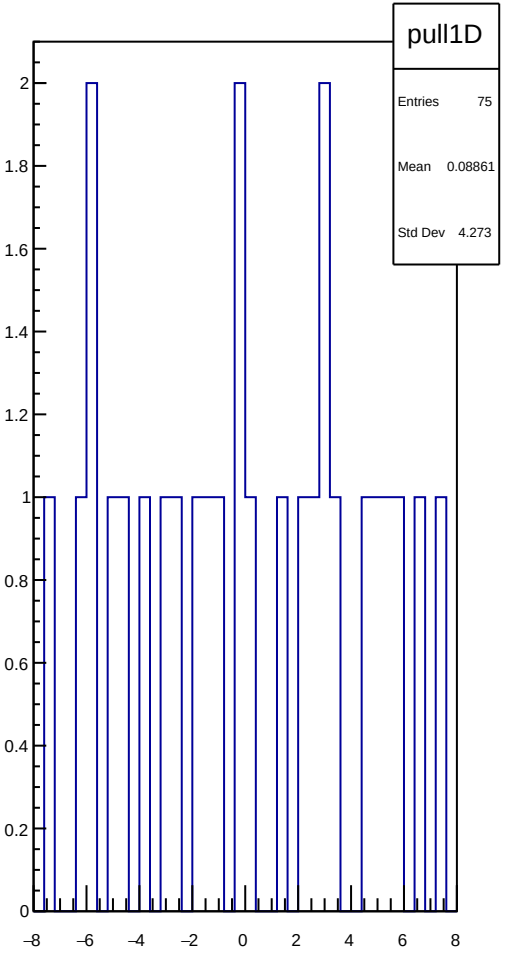

yield_bpm4eX_rms vs run
χ² / ndf 9.231e+04 / 74
p0 0.04457 ± 3.832e–05
0.12
0.1
0.08
0.06
0.04

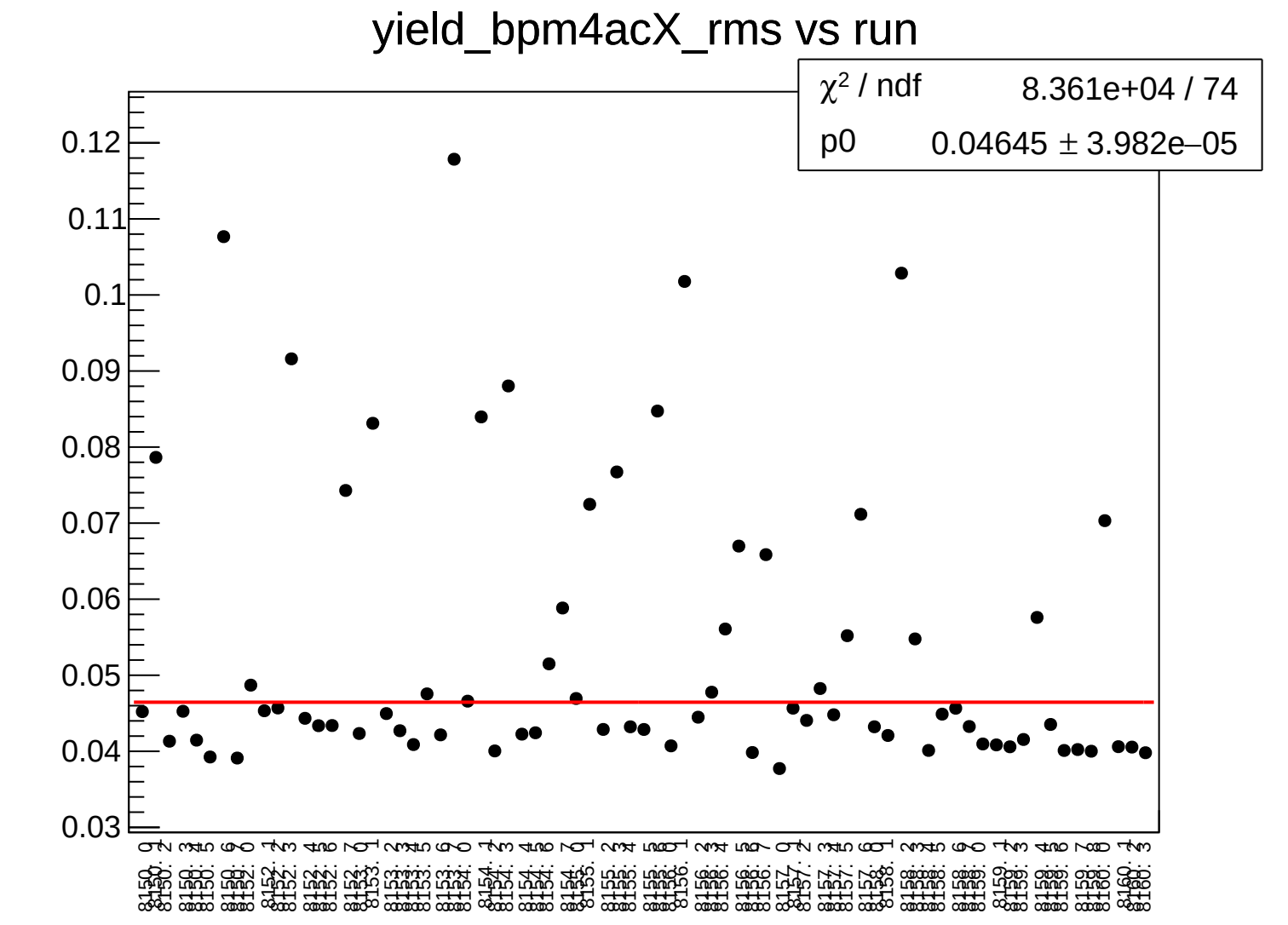

yield_bpm4eY_mean vs run
χ² / ndf 4.911e+04 / 74
p0 0.2477 ± 1.617e−05
pull
Entries 75
Mean −572.6
Std Dev 613.3

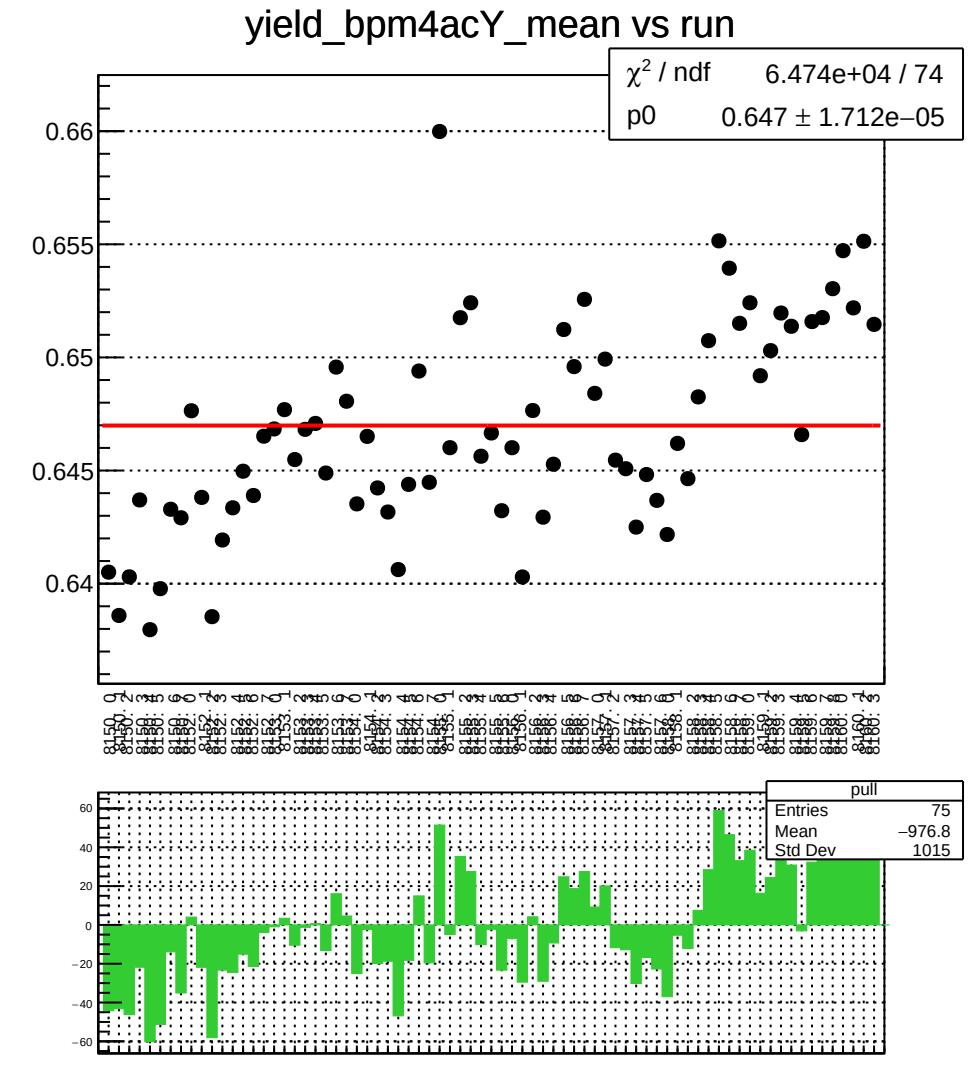

pull1D
Entries 75
Mean −2.333
Std Dev 3.665

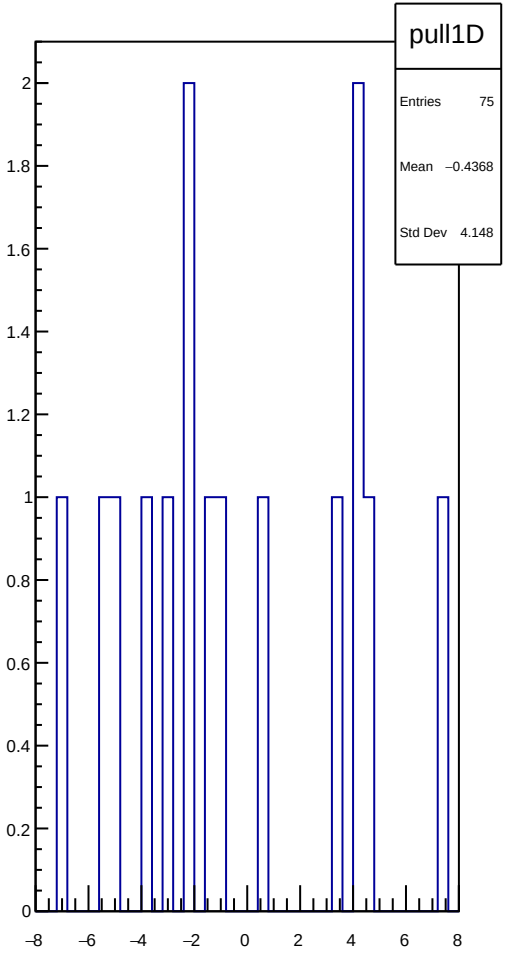

yield_bpm4eY_rms vs run
χ² / ndf 4.72e+04 / 74
p0 0.01352 ± 1.144e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

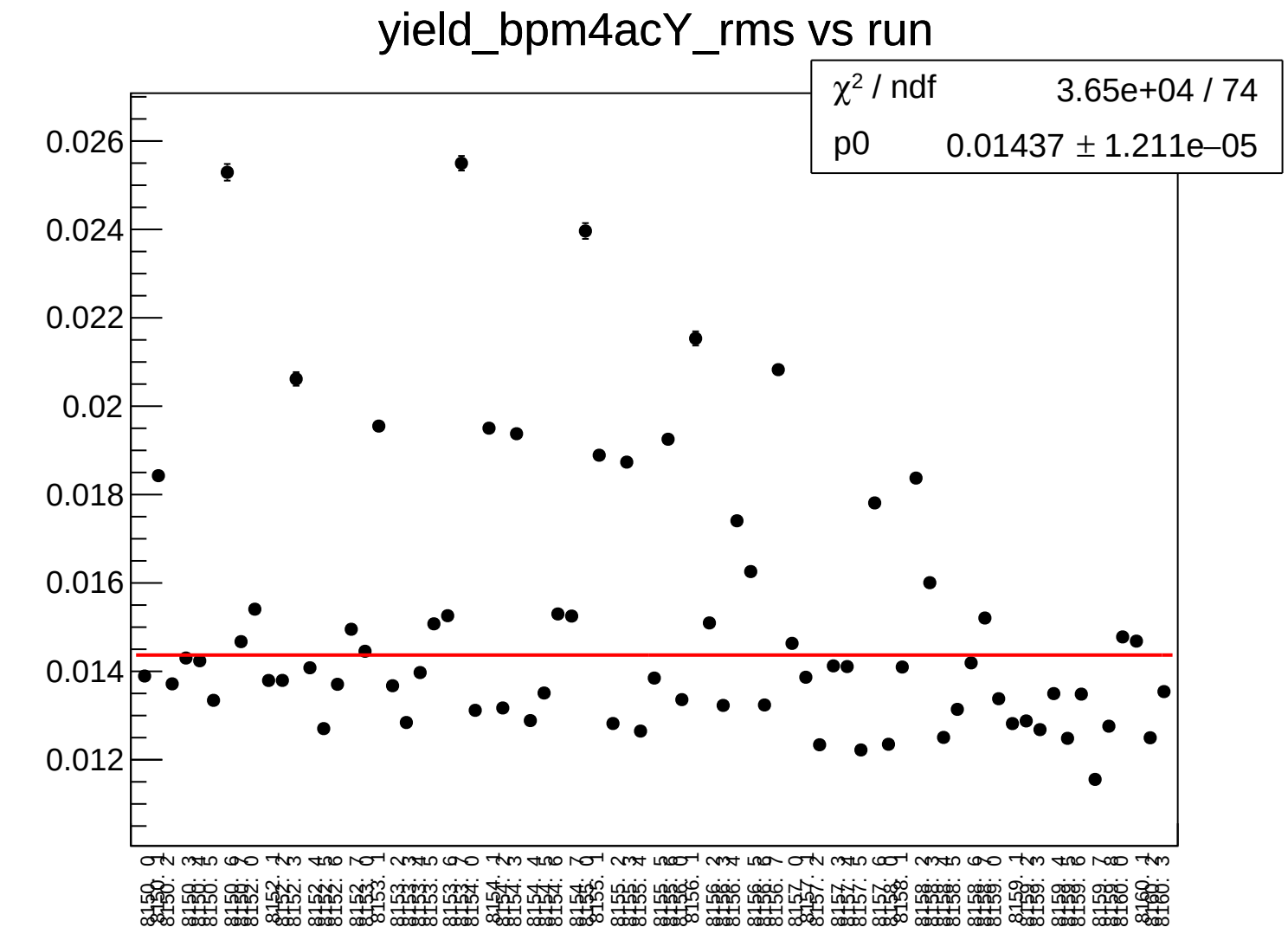

yield_bpm4acX_mean vs run
χ² / ndf 2.342e+04 / 74
p0 −0.9505 ± 5.631e−05
−0.93
−0.94
−0.95
−0.96
−0.97
pull
Entries 75
Mean −281.6
Std Dev 320.7
40
20
0
−20
−40

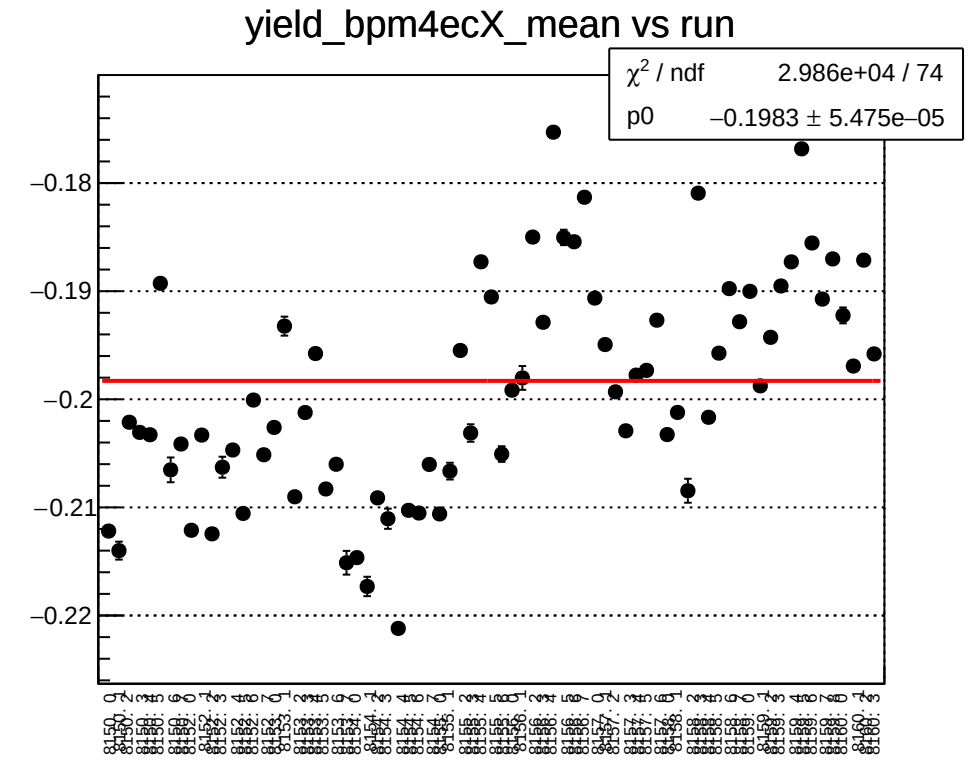

pull1D
Entries 75
Mean 0.08861
Std Dev 4.273
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

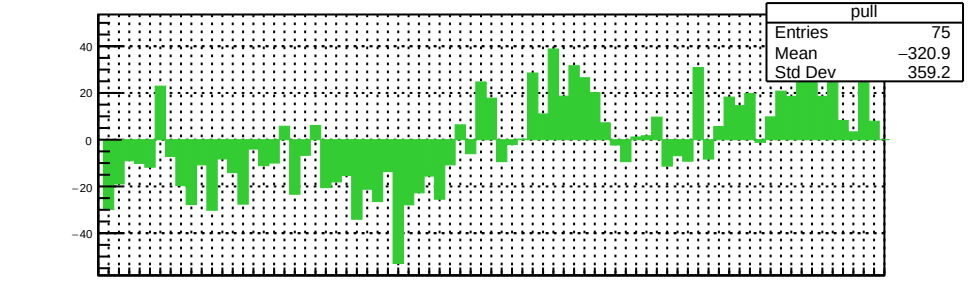

yield_bpm4acX_rms vs run
χ² / ndf 8.361e+04 / 74
p0 0.04645 ± 3.982e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

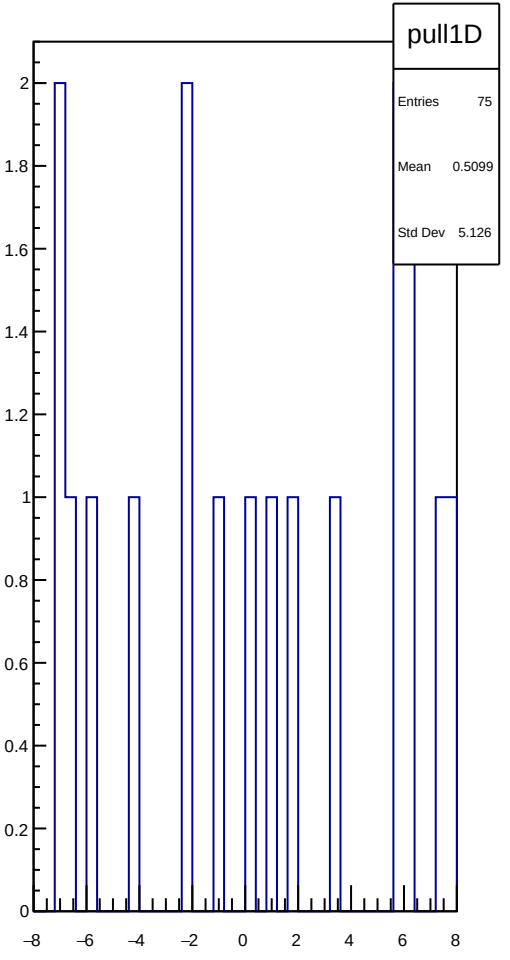

yield_bpm4acY_mean vs run
χ² / ndf 6.474e+04 / 74
p0 0.647 ± 1.712e−05
0.66
0.655
0.65
0.645
0.64
pull
Entries 75
Mean −976.8
Std Dev 1015
60
40
20
0
−20
−40
−60

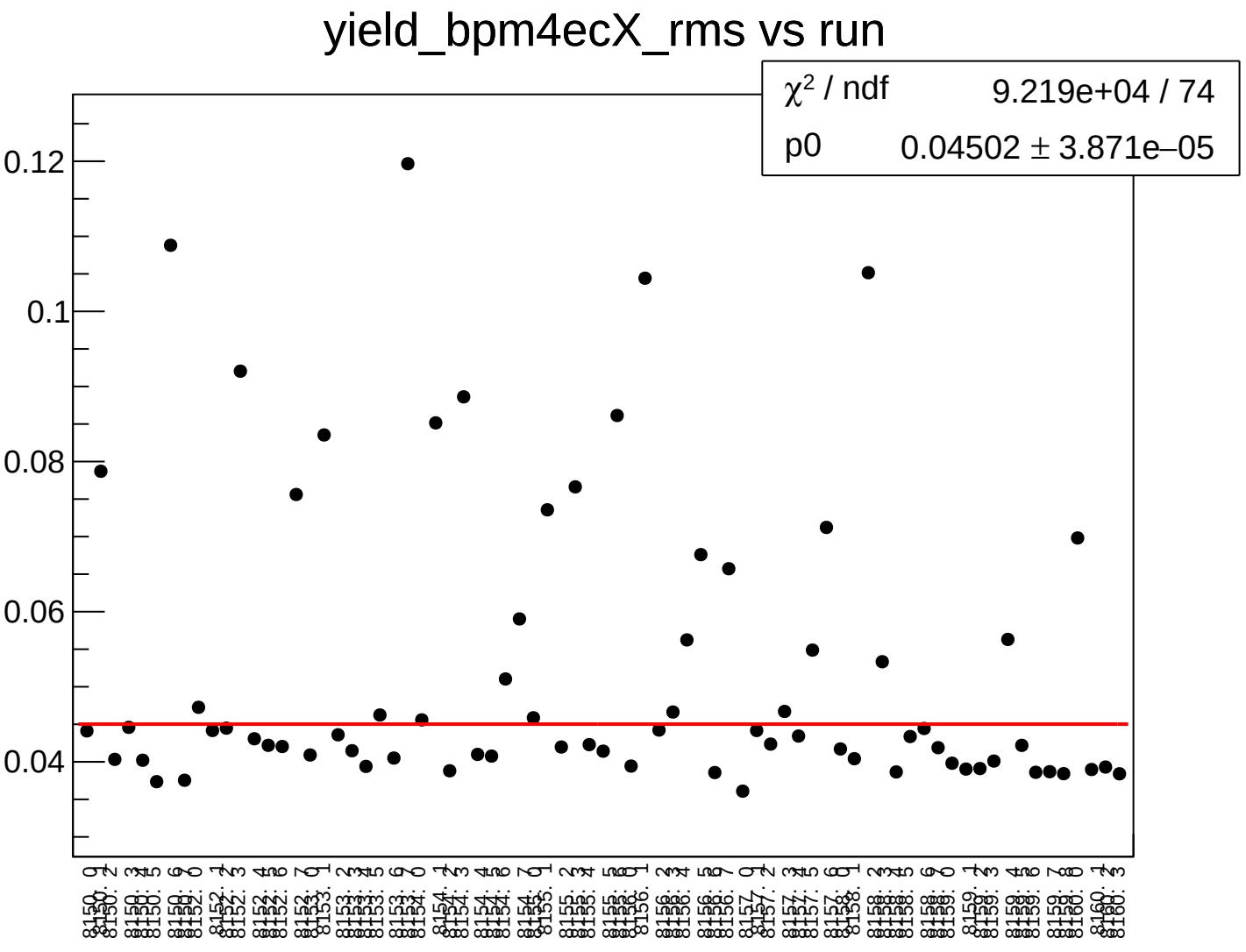

pull1D
Entries 75
Mean −0.4368
Std Dev 4.148
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

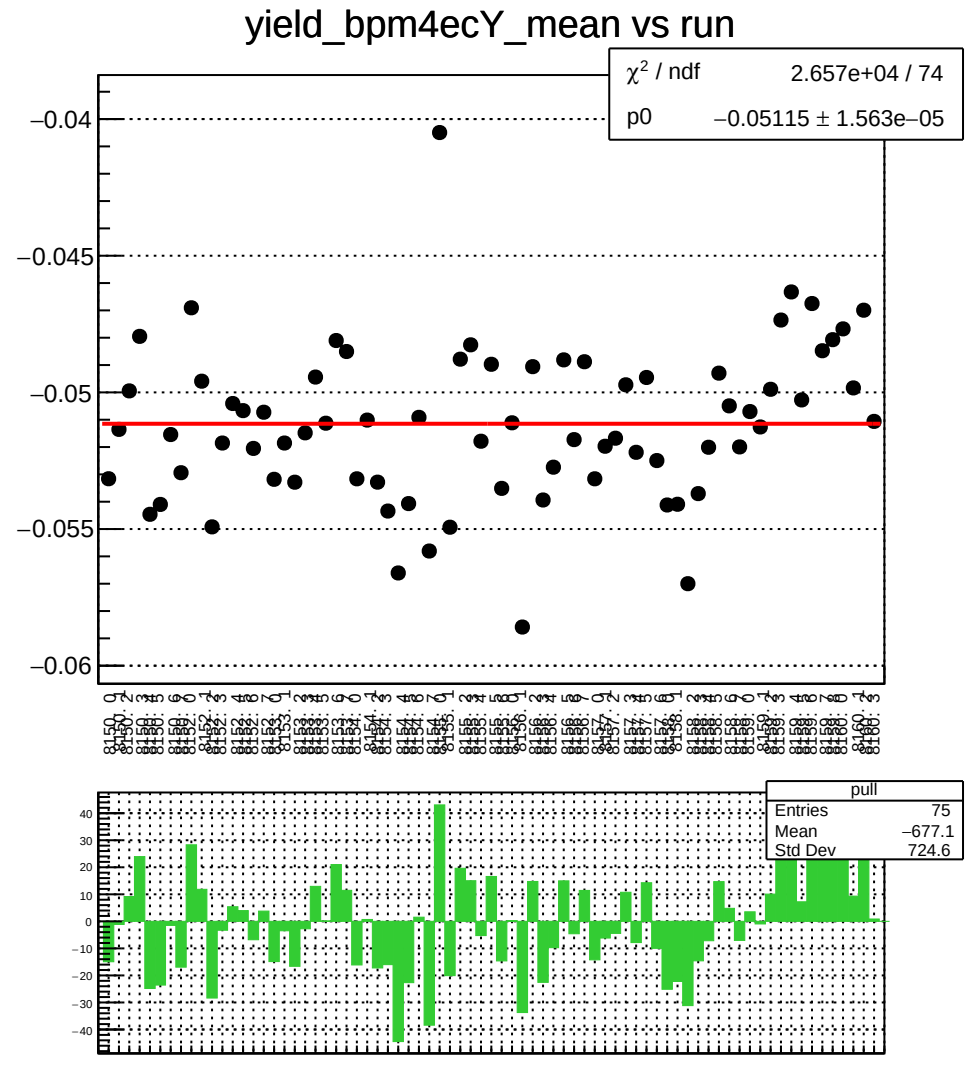

yield_bpm4acY_rms vs run
χ² / ndf 3.65e+04 / 74
p0 0.01437 ± 1.211e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

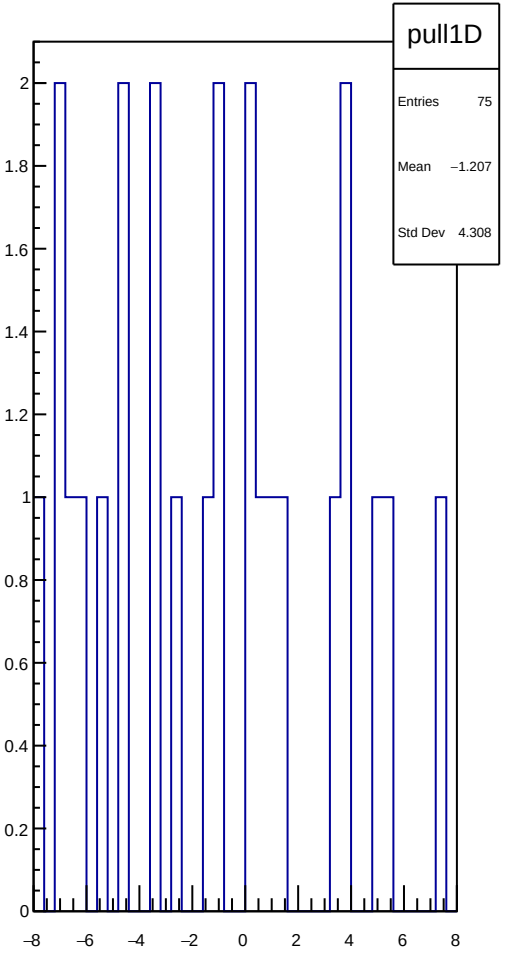

yield_bpm4ecX_mean vs run
χ² / ndf 2.986e+04 / 74
p0 −0.1983 ± 5.475e−05
−0.18
−0.19
−0.2
−0.21
−0.22

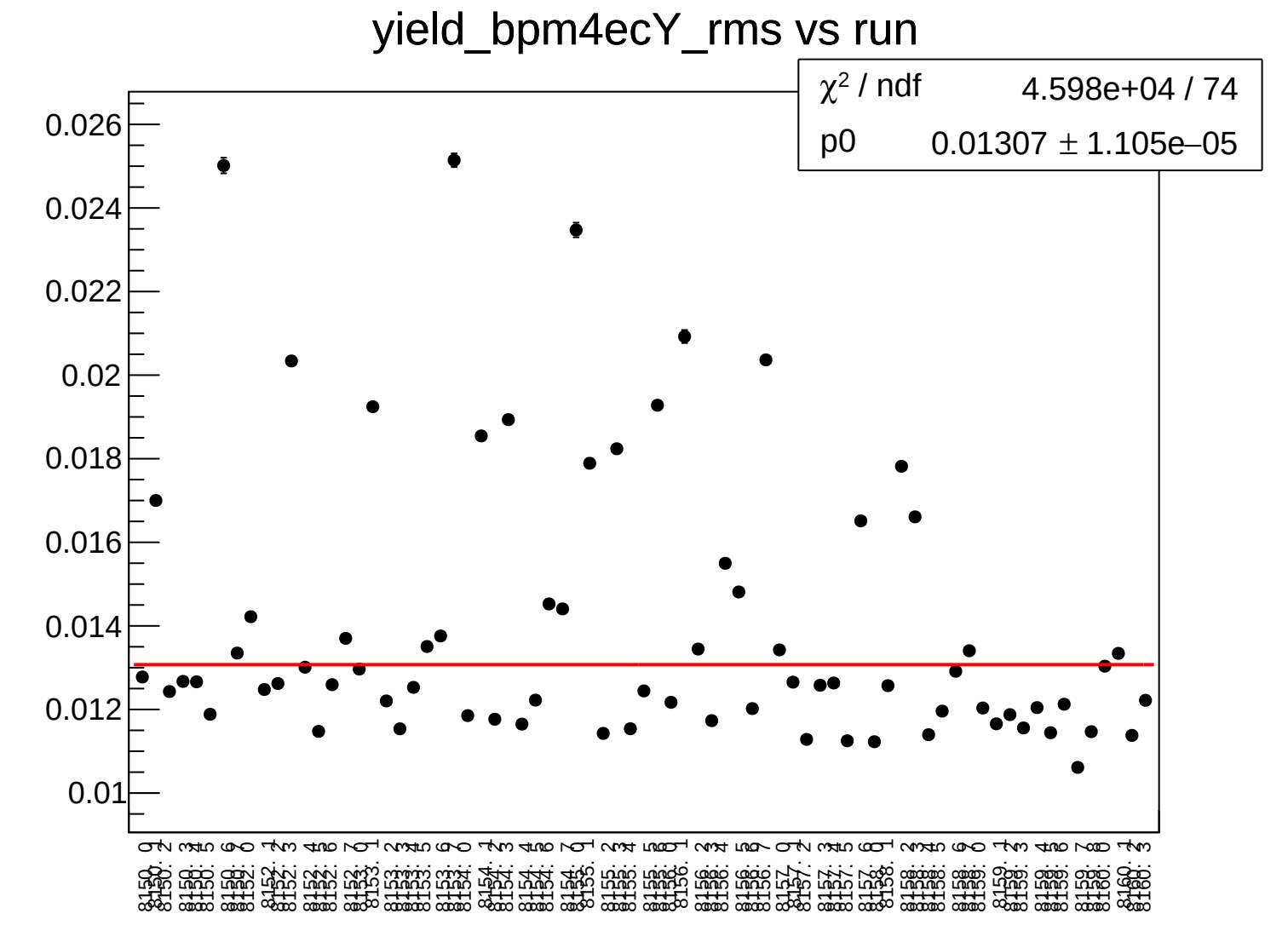

pull
Entries 75
Mean −320.9
Std Dev 359.2
40
20
0
−20
−40

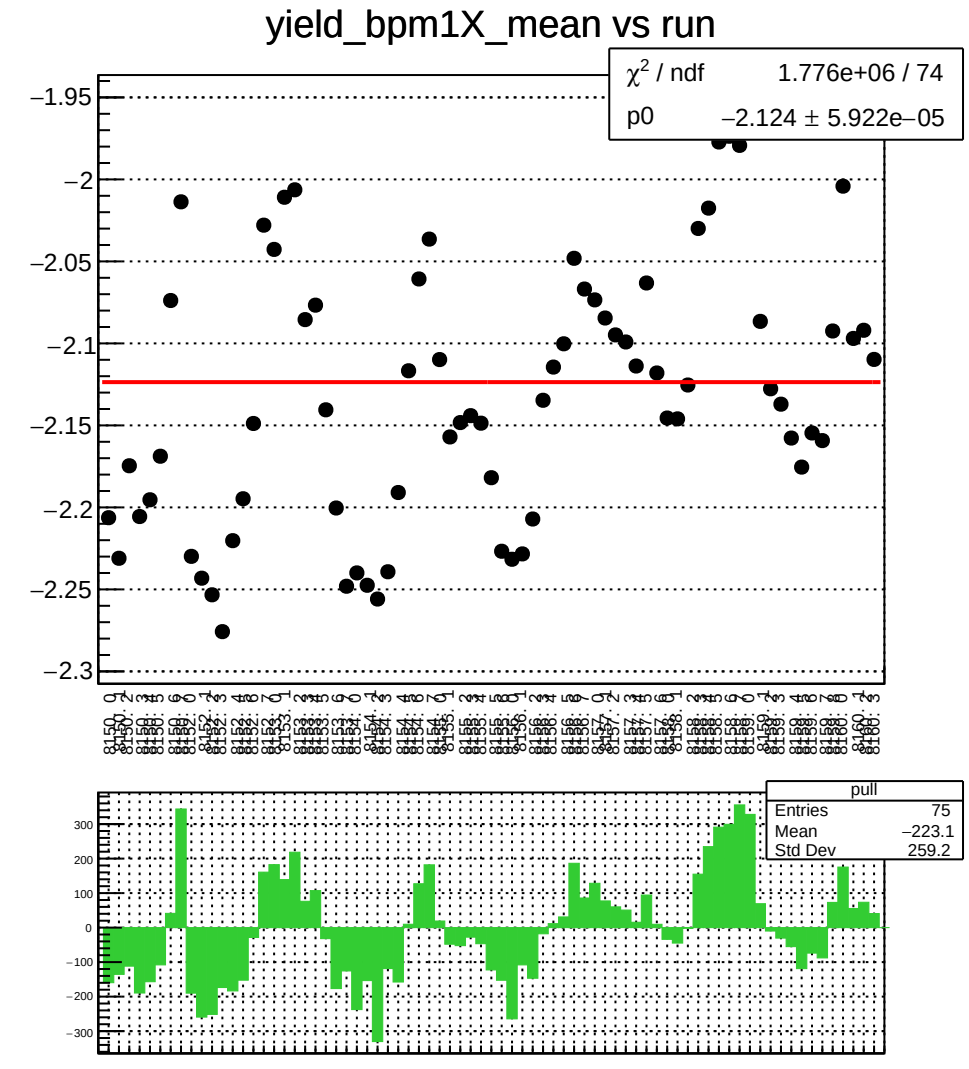

pull1D
Entries 75
Mean 0.5099
Std Dev 5.126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

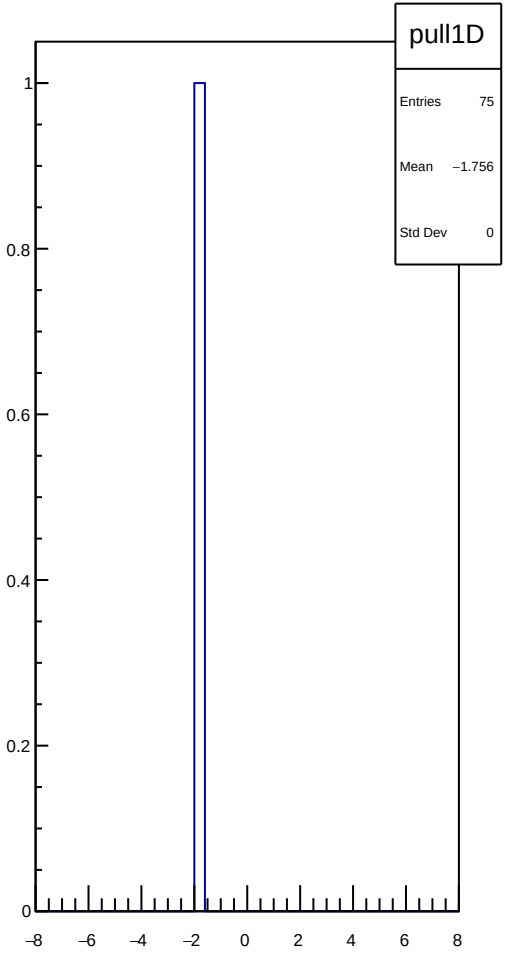

yield_bpm4ecX_rms vs run
χ² / ndf 9.219e+04 / 74
p0 0.04502 ± 3.871e−05
0.12
0.1
0.08
0.06
0.04

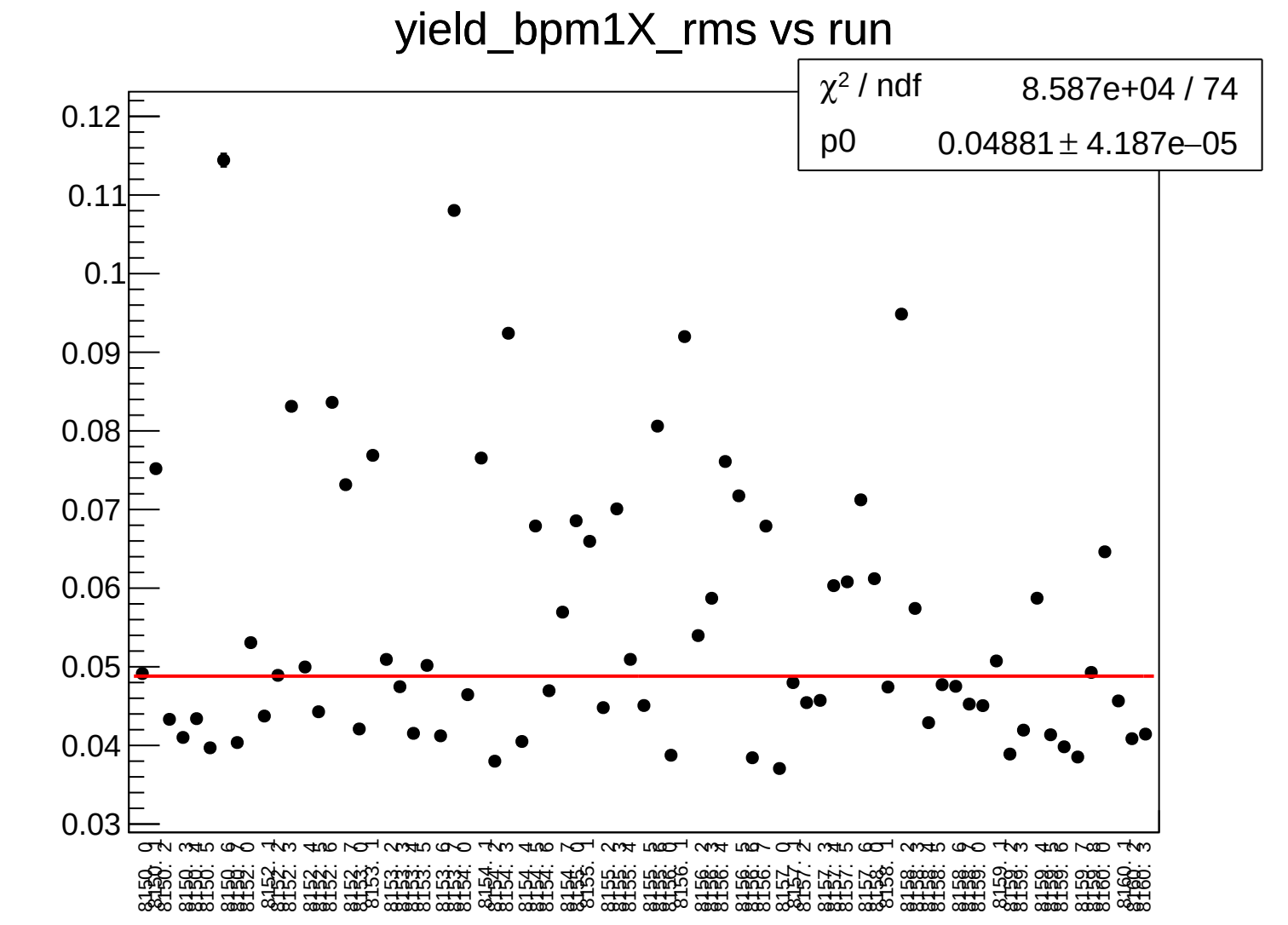

yield_bpm4ecY_mean vs run
χ² / ndf 2.657e+04 / 74
p0 −0.05115 ± 1.563e−05
−0.04
−0.045
−0.05
−0.055
−0.06
pull
Entries 75
Mean −677.1
Std Dev 724.6
40
30
20
10
0
−10
−20
−30
−40

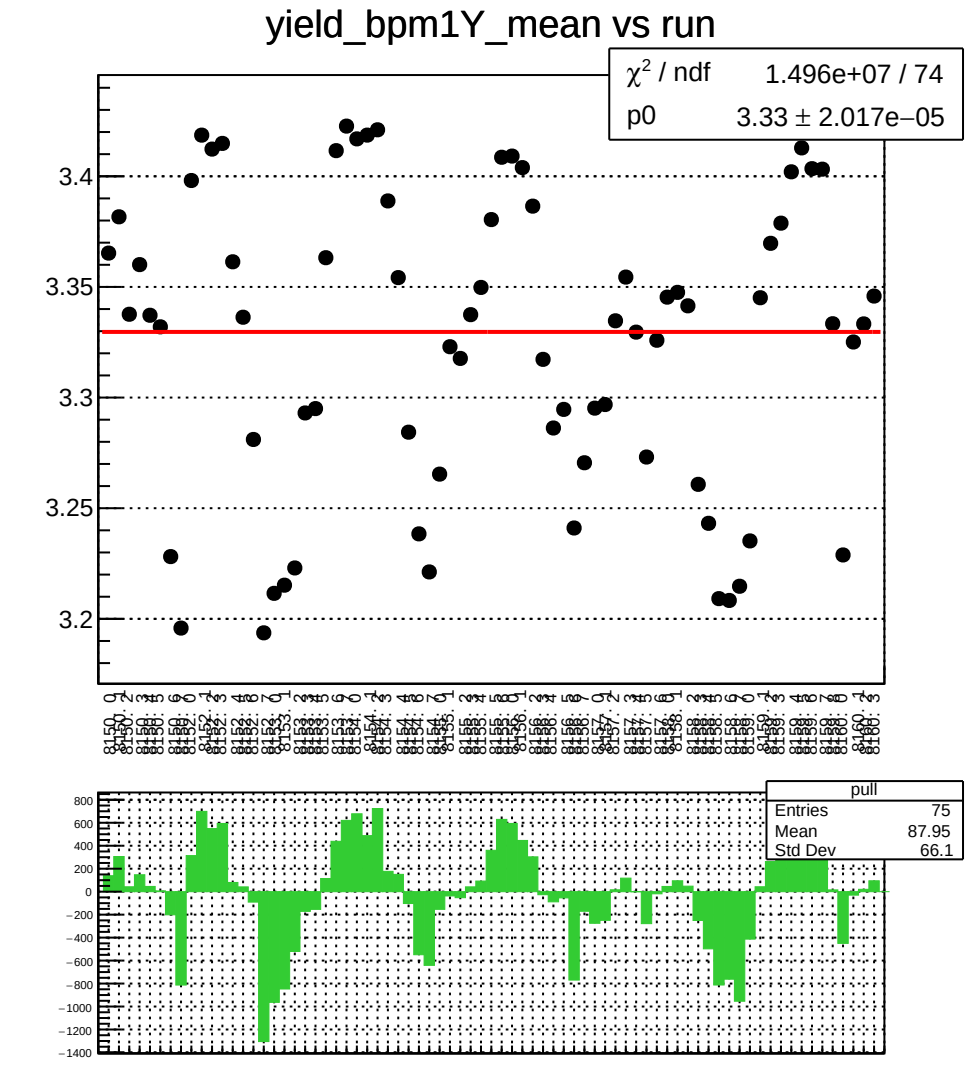

pull1D
Entries 75
Mean −1.207
Std Dev 4.308
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

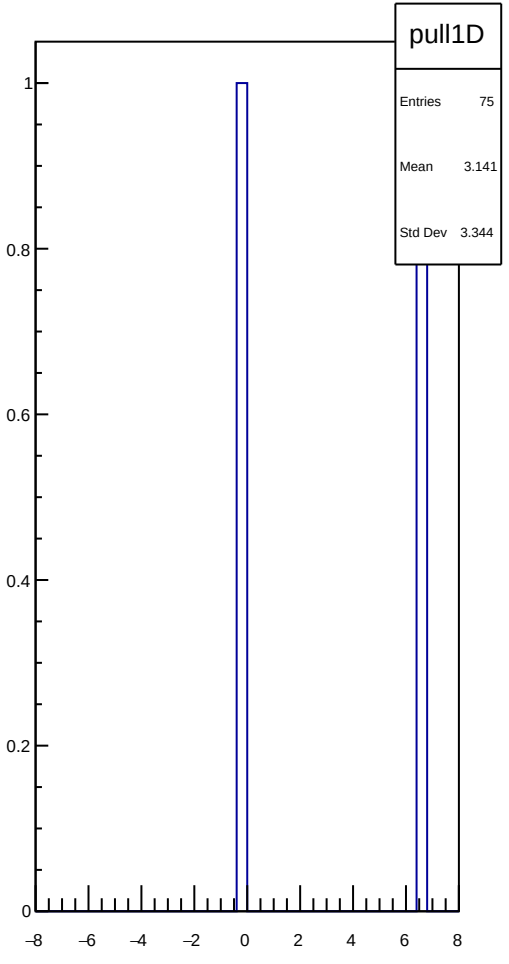

yield_bpm4ecY_rms vs run
χ² / ndf 4.598e+04 / 74
p0 0.01307 ± 1.105e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

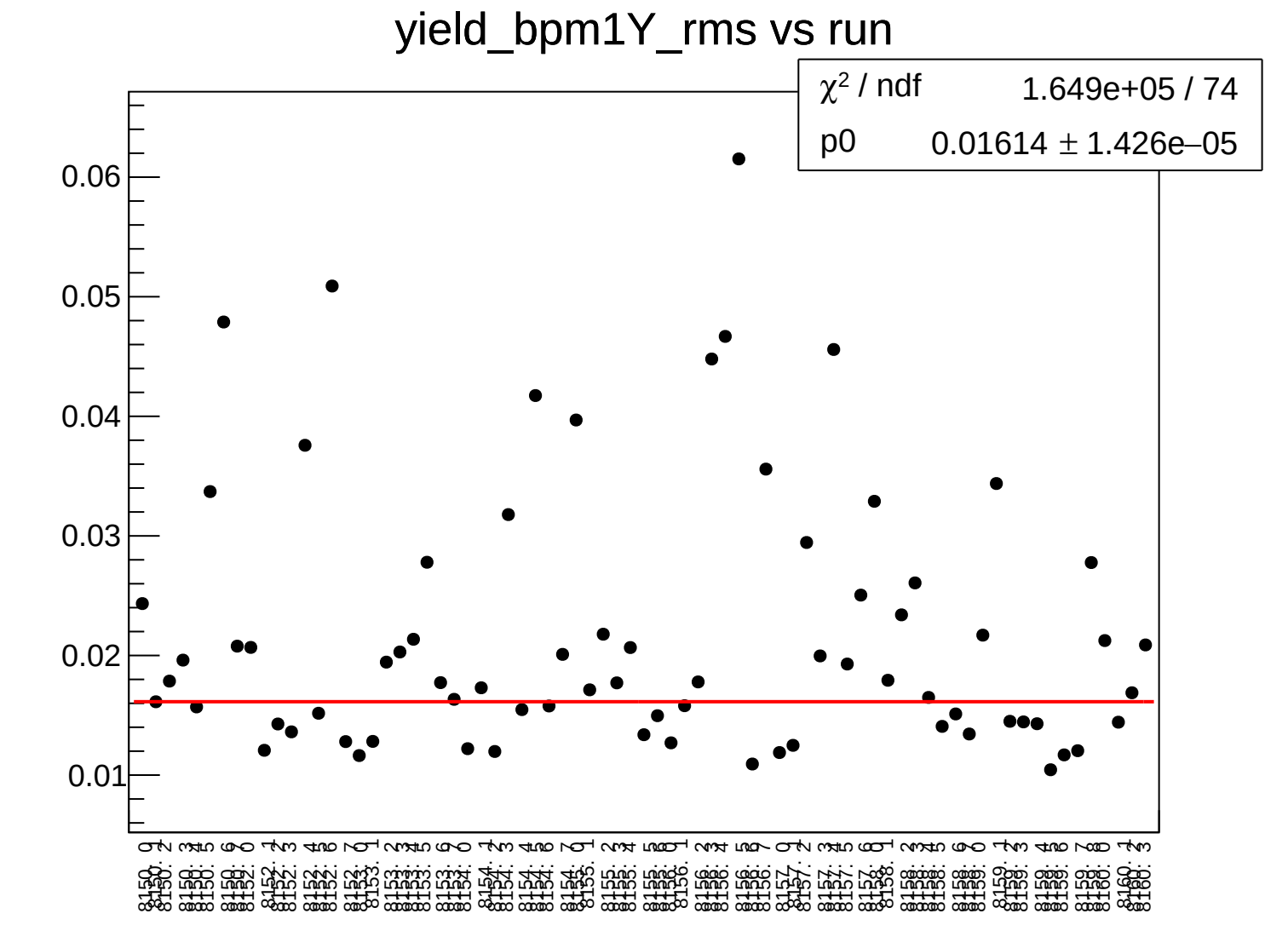

yield_bpm1X_mean vs run
χ² / ndf 1.776e+06 / 74
p0 −2.124 ± 5.922e−05
−1.95
−2
−2.05
−2.1
−2.15
−2.2
−2.25
−2.3
pull
Entries 75
Mean −223.1
Std Dev 259.2
300
200
100
0
−100
−200
−300

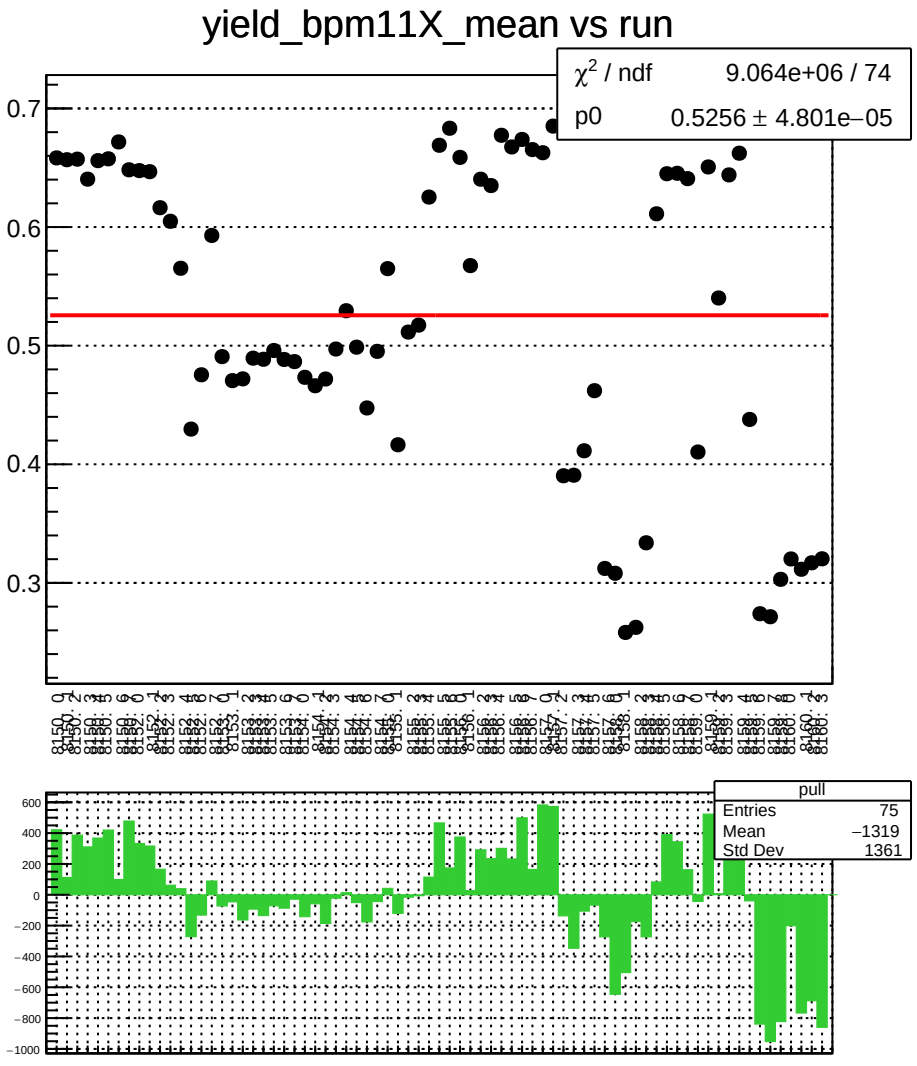

pull1D
Entries 75
Mean −1.756
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

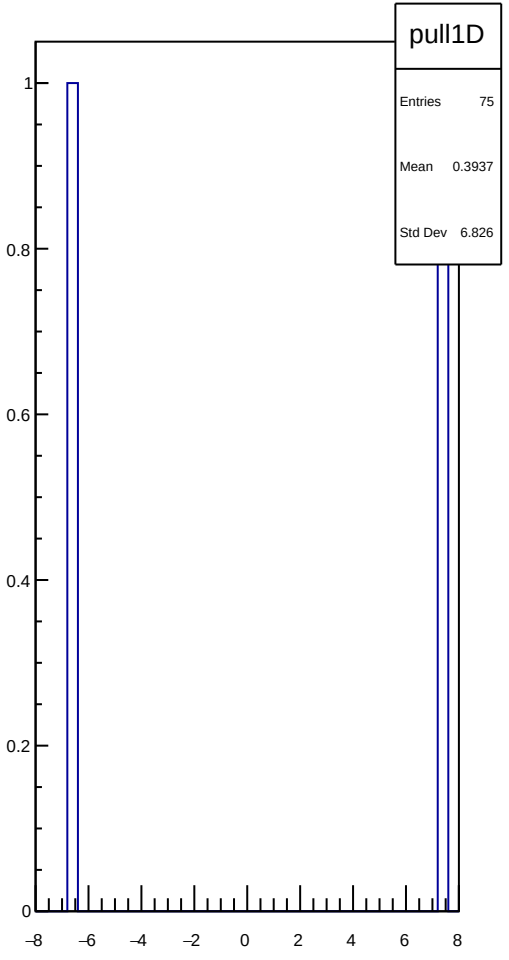

yield_bpm1X_rms vs run
χ² / ndf 8.587e+04 / 74
p0 0.04881 ± 4.187e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

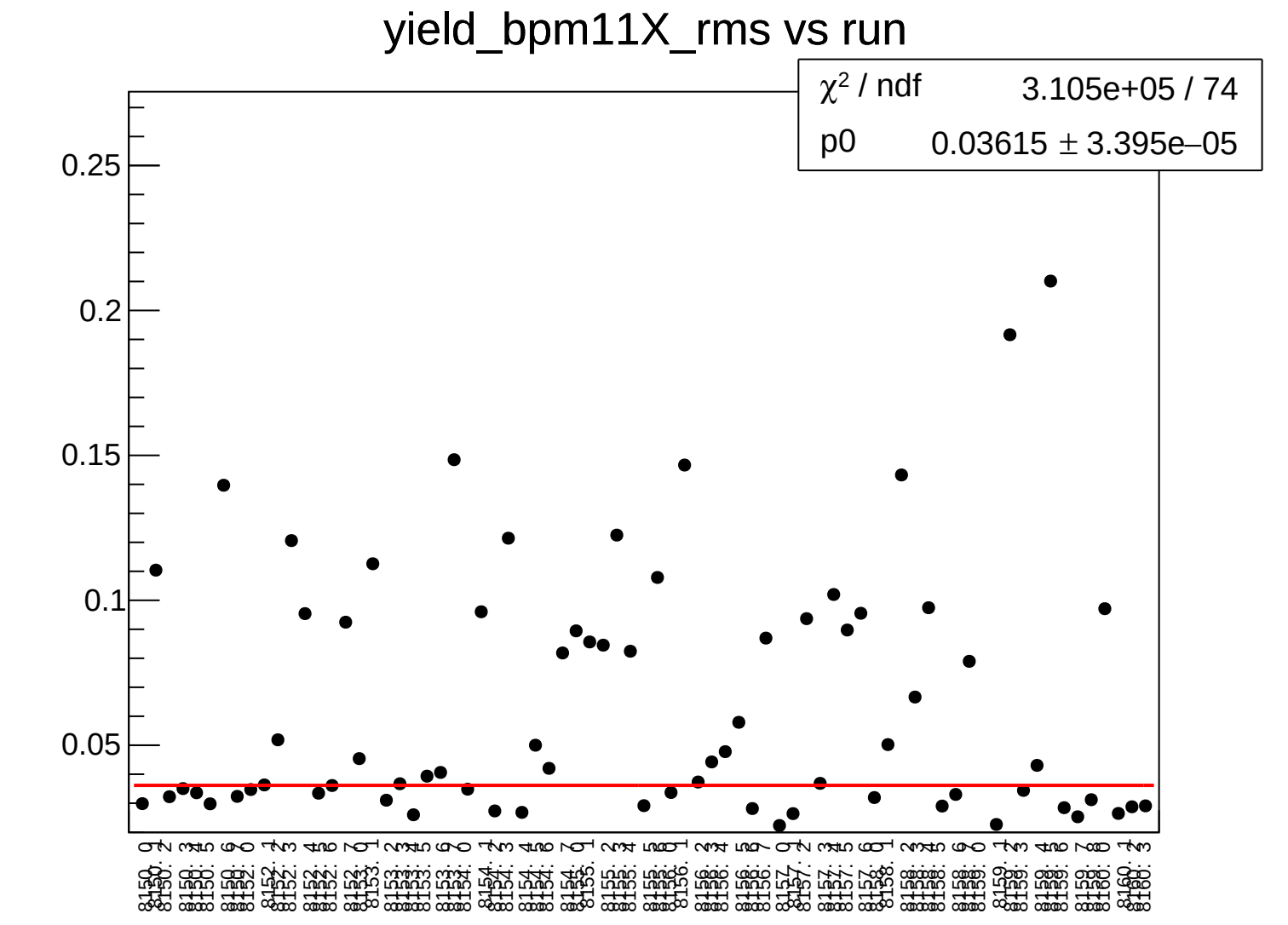

yield_bpm1Y_mean vs run
χ² / ndf 1.496e+07 / 74
p0 3.33 ± 2.017e−05
3.4
3.35
3.3
3.25
3.2
pull
Entries 75
Mean 87.95
Std Dev 66.1
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

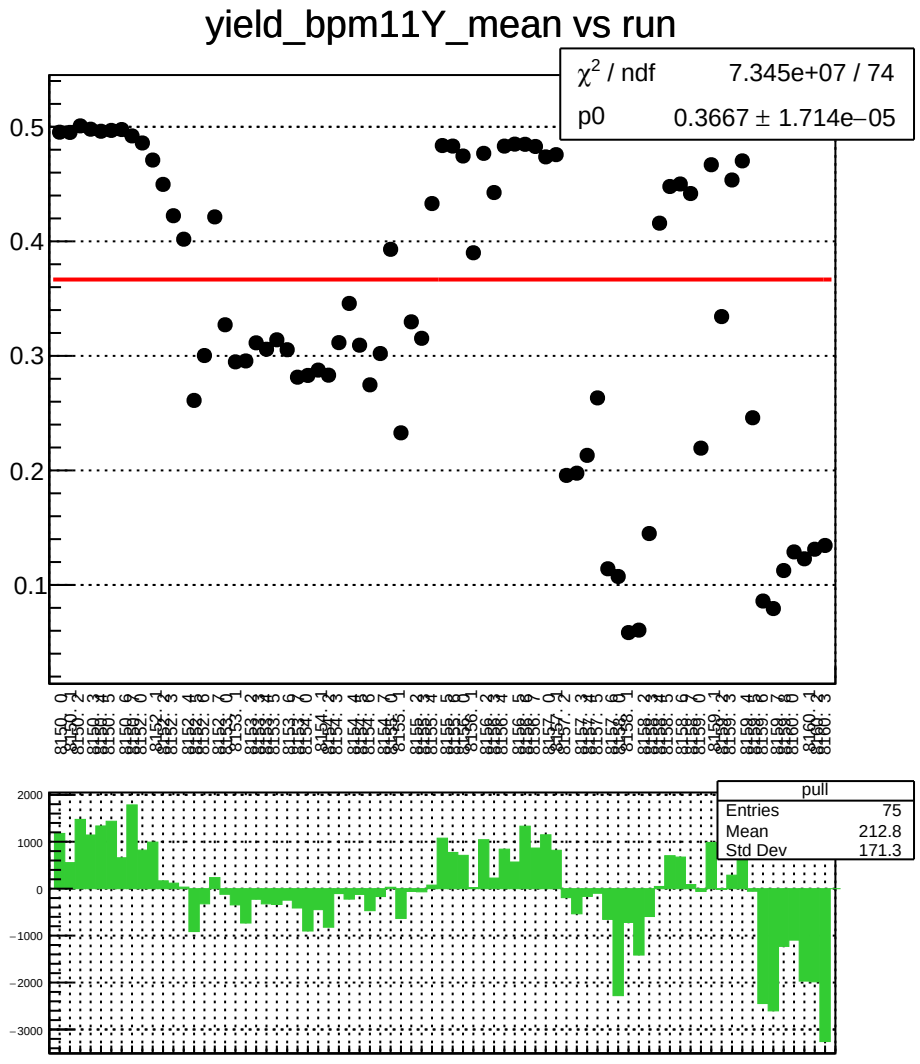

pull1D
Entries 75
Mean 3.141
Std Dev 3.344
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

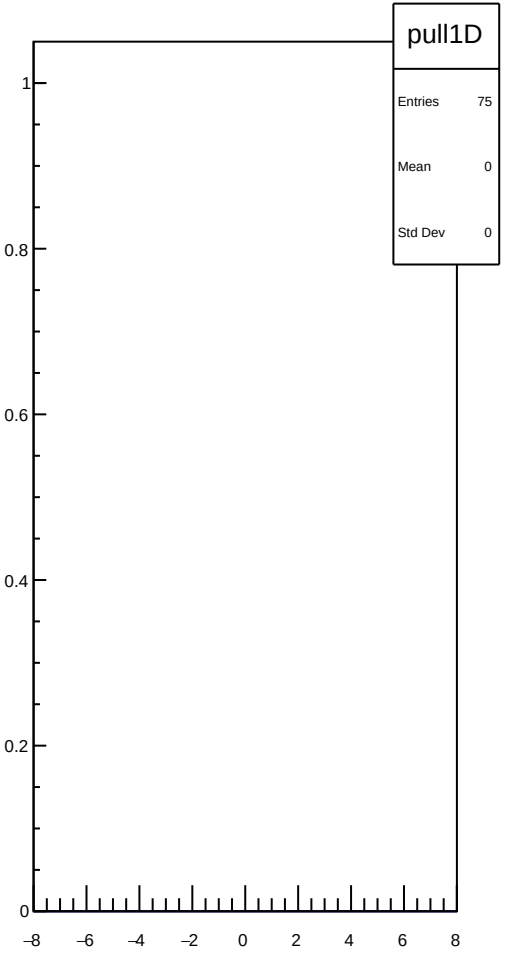

yield_bpm1Y_rms vs run
χ² / ndf 1.649e+05 / 74
p0 0.01614 ± 1.426e−05
0.06
0.05
0.04
0.03
0.02
0.01

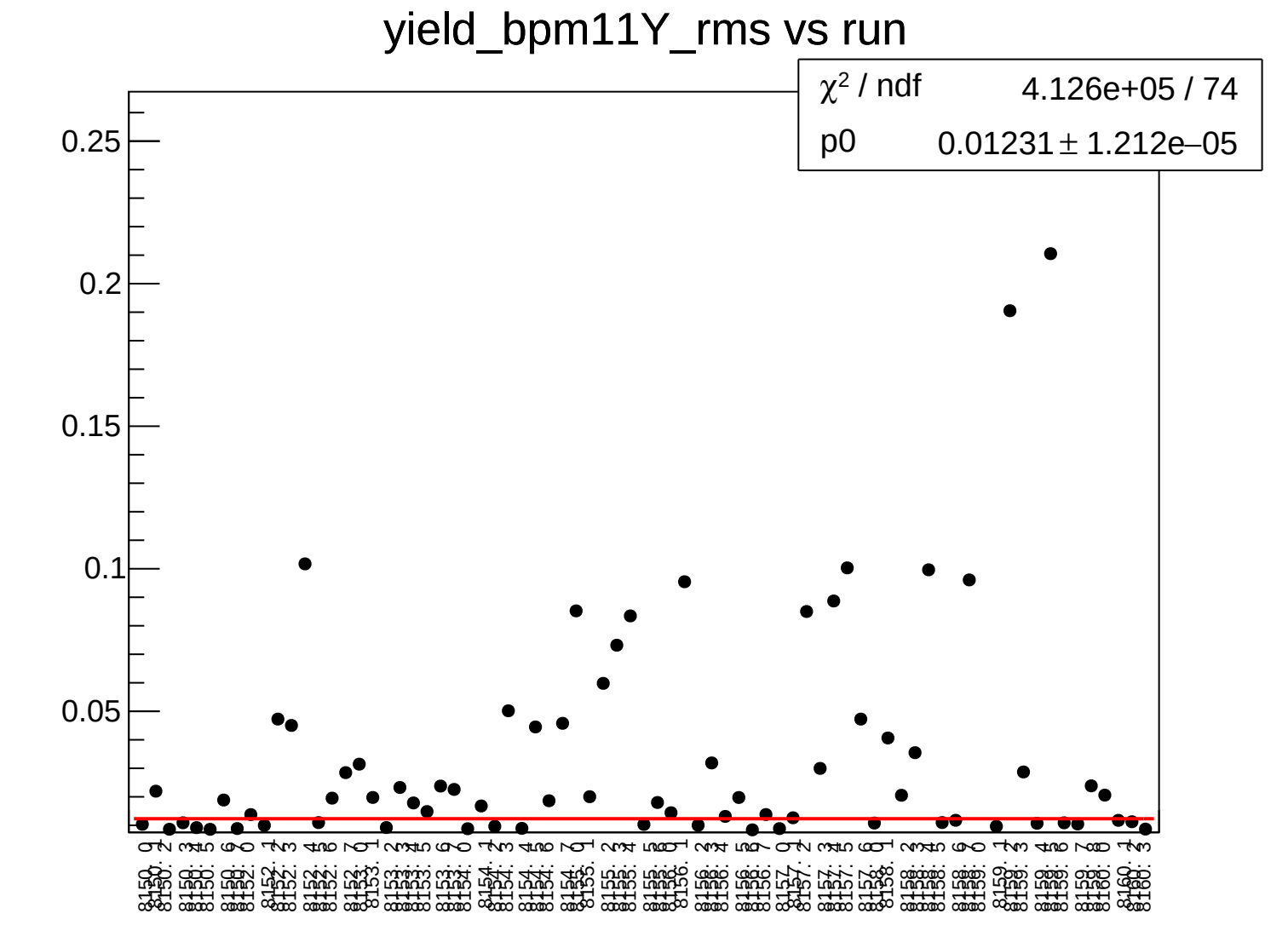

yield_bpm11X_mean vs run
χ² / ndf 9.064e+06 / 74
p0 0.5256 ± 4.801e−05
0.7
0.6
0.5
0.4
0.3
pull
Entries 75
Mean −1319
Std Dev 1361
600
400
200
0
−200
−400
−600
−800
−1000

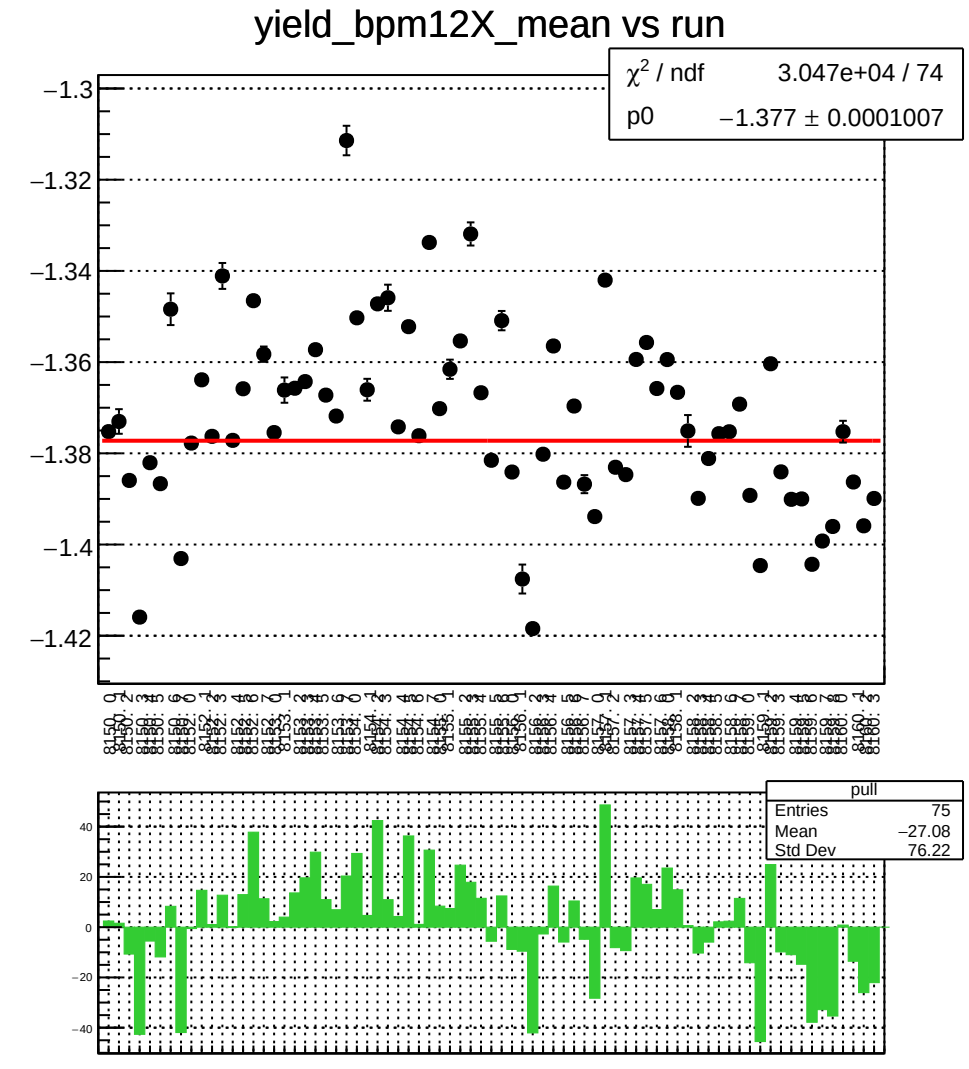

pull1D
Entries 75
Mean 0.3937
Std Dev 6.826
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

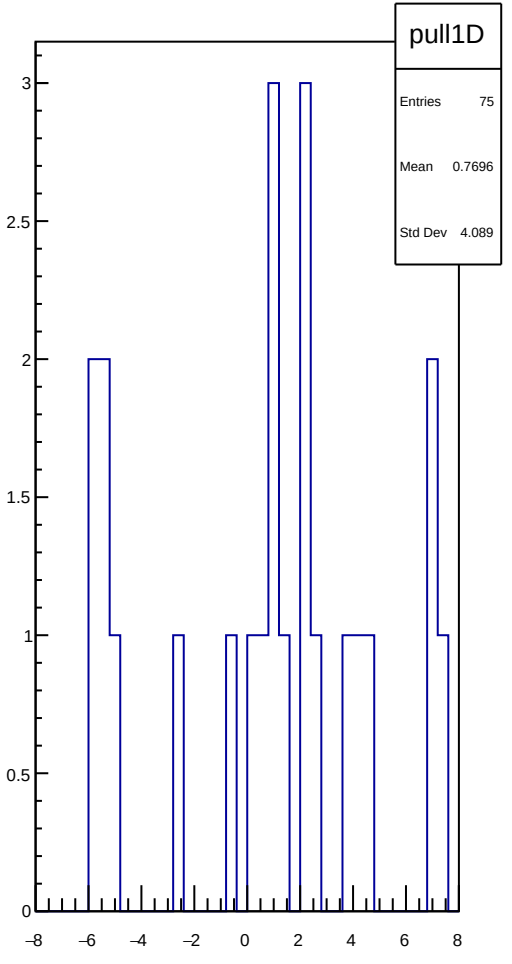

yield_bpm11X_rms vs run
χ² / ndf 3.105e+05 / 74
p0 0.03615 ± 3.395e–05
0.25
0.2
0.15
0.1
0.05

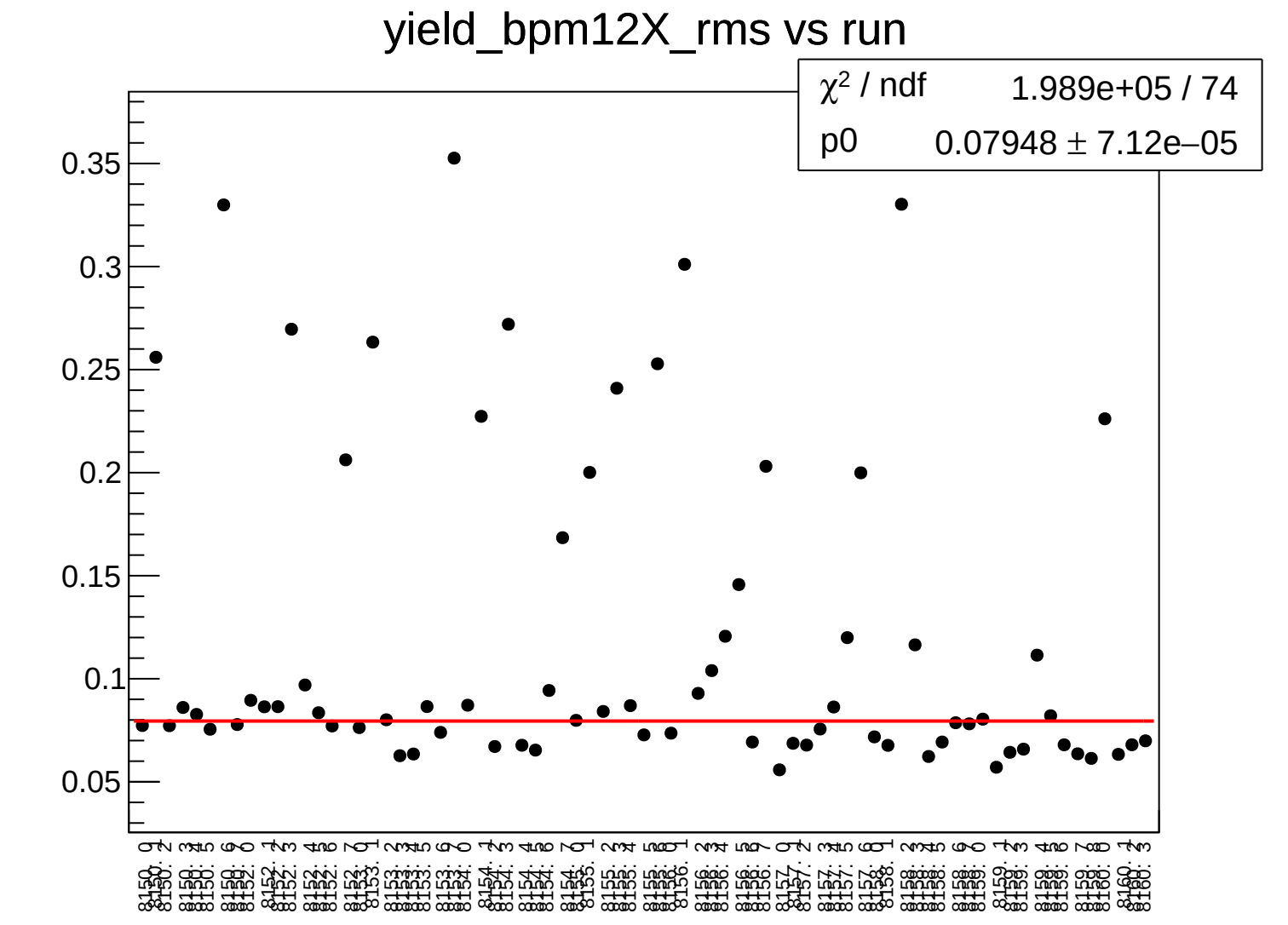

yield_bpm11Y_mean vs run
χ² / ndf 7.345e+07 / 74
p0 0.3667 ± 1.714e−05
pull
Entries 75
Mean 212.8
Std Dev 171.3

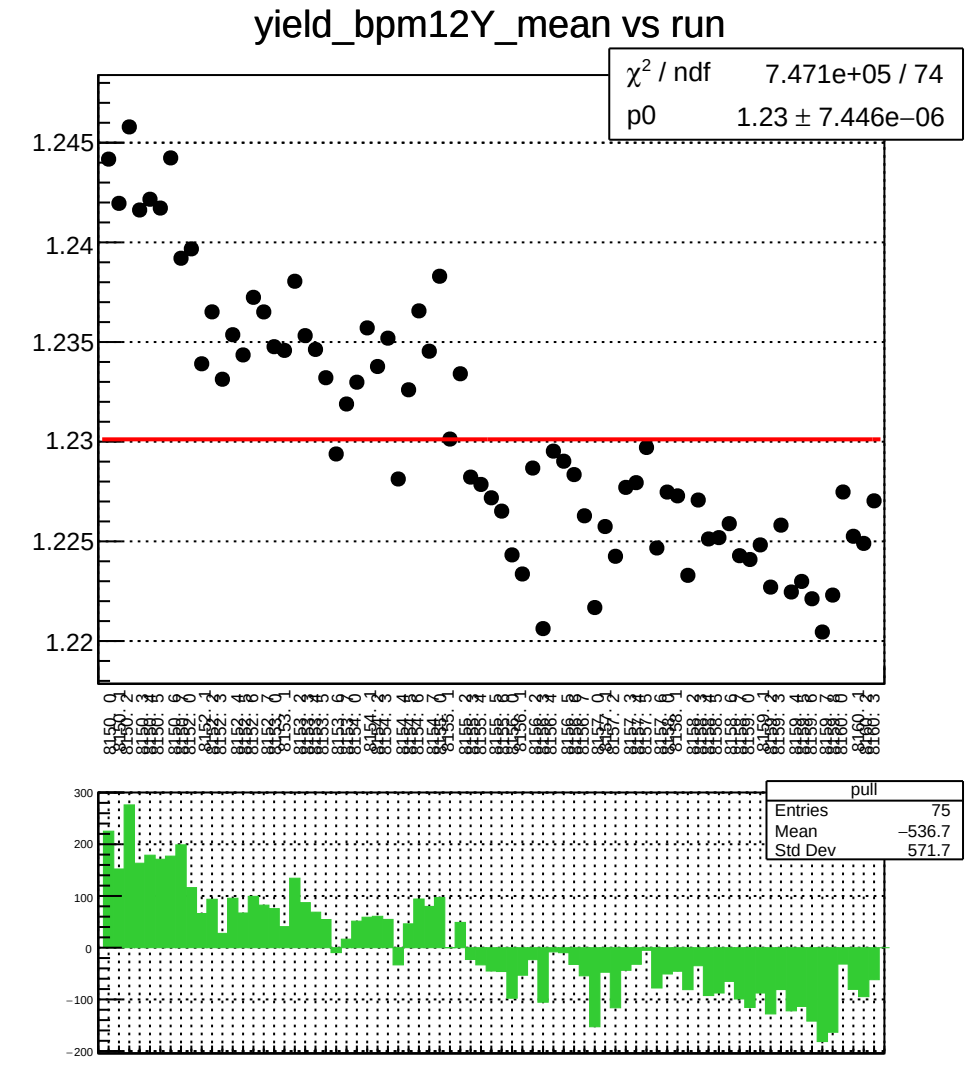

pull1D
Entries 75
Mean 0
Std Dev 0

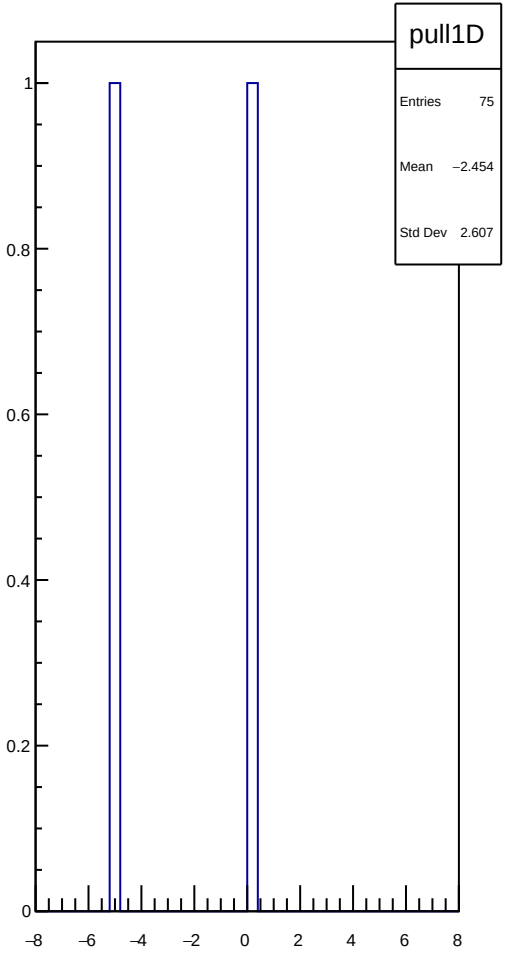

yield_bpm11Y_rms vs run
χ² / ndf 4.126e+05 / 74
p0 0.01231 ± 1.212e–05
0.25
0.2
0.15
0.1
0.05

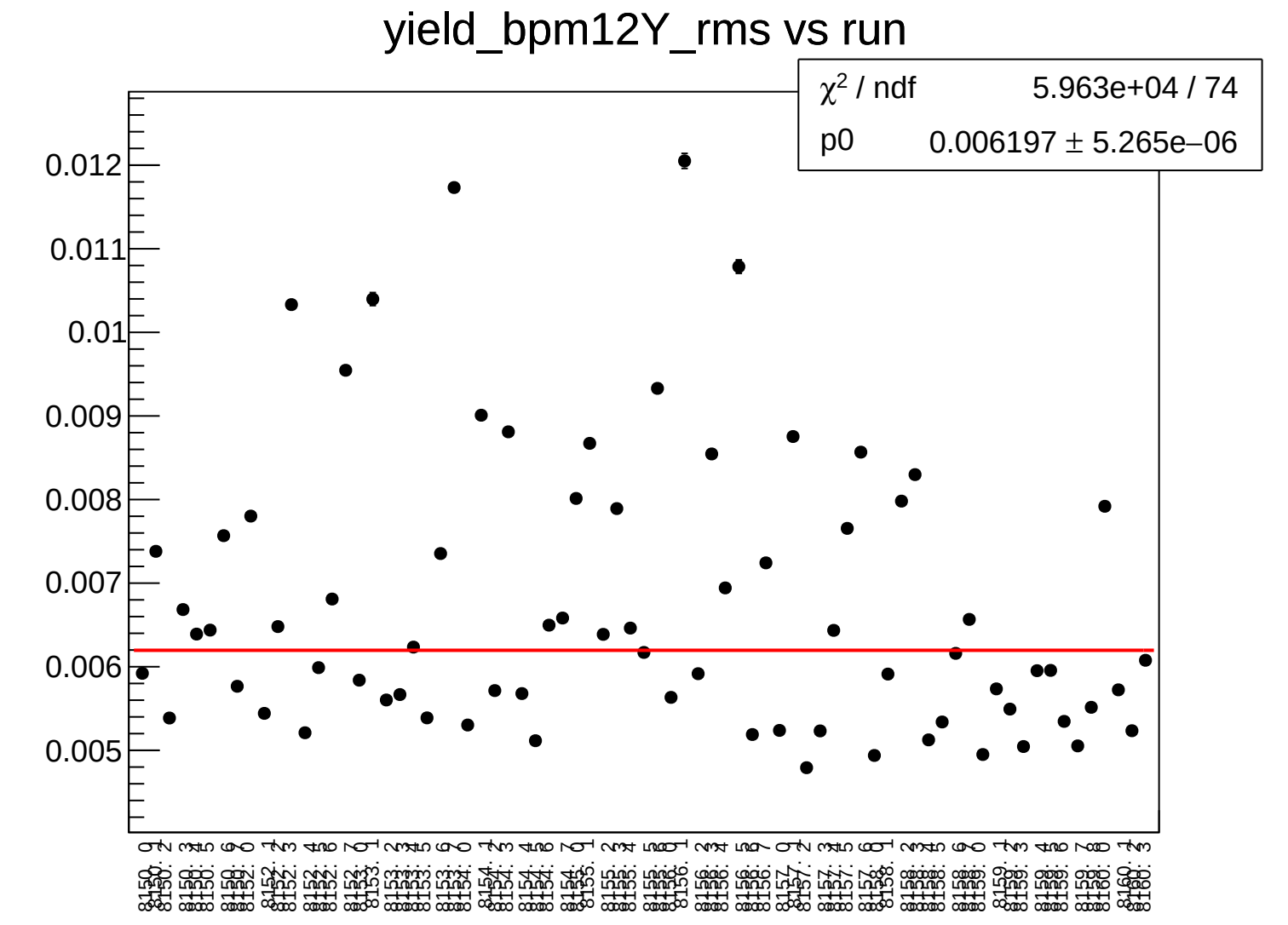

yield_bpm12X_mean vs run
χ² / ndf 3.047e+04 / 74
p0 −1.377 ± 0.0001007
−1.3
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
pull
Entries 75
Mean −27.08
Std Dev 76.22
40
20
0
−20
−40

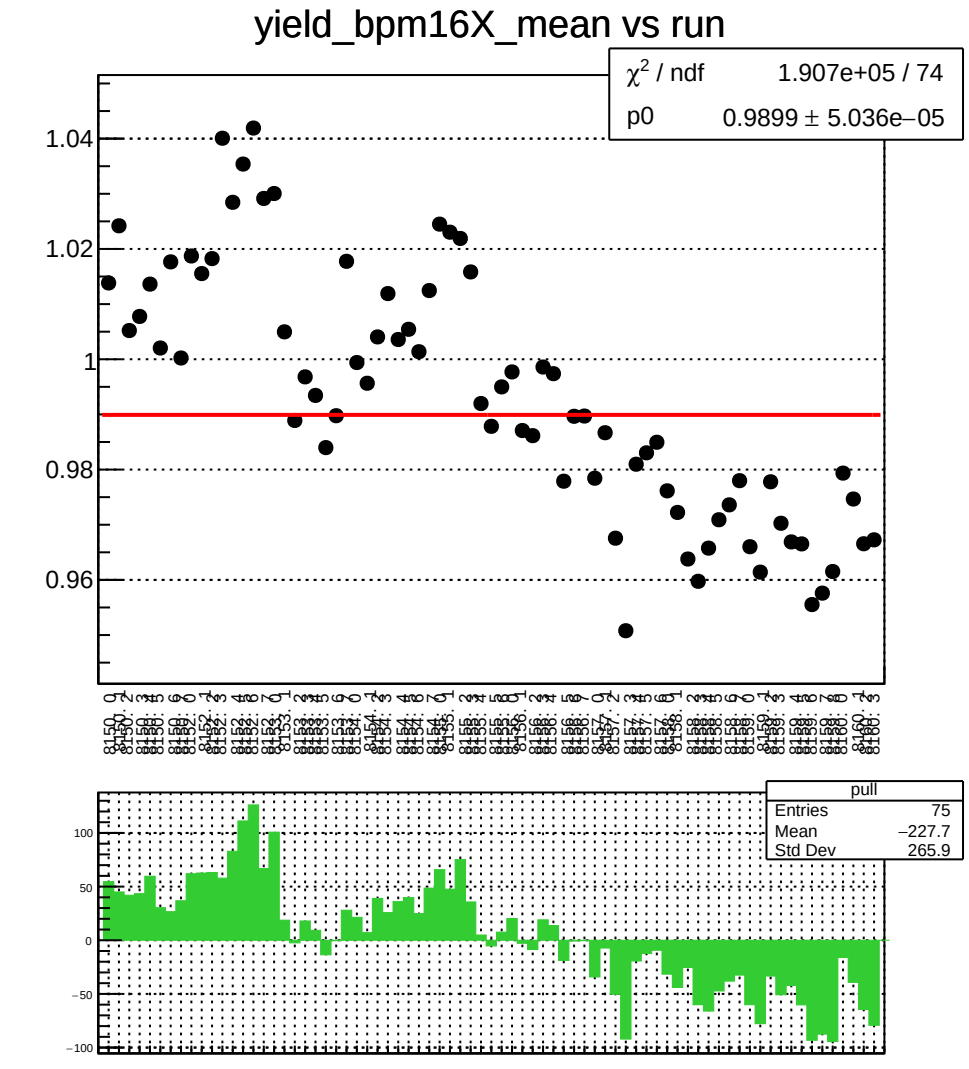

pull1D
Entries 75
Mean 0.7696
Std Dev 4.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

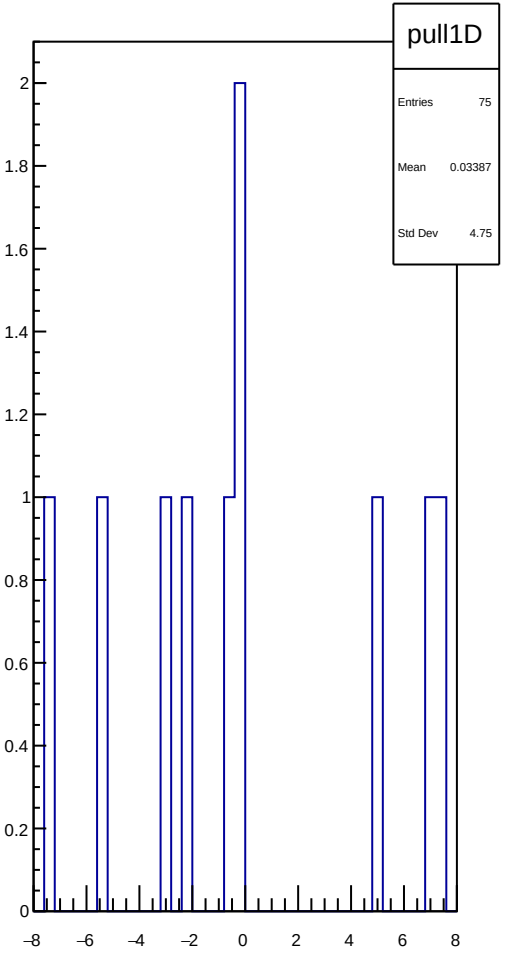

yield_bpm12X_rms vs run
χ² / ndf 1.989e+05 / 74
p0 0.07948 ± 7.12e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

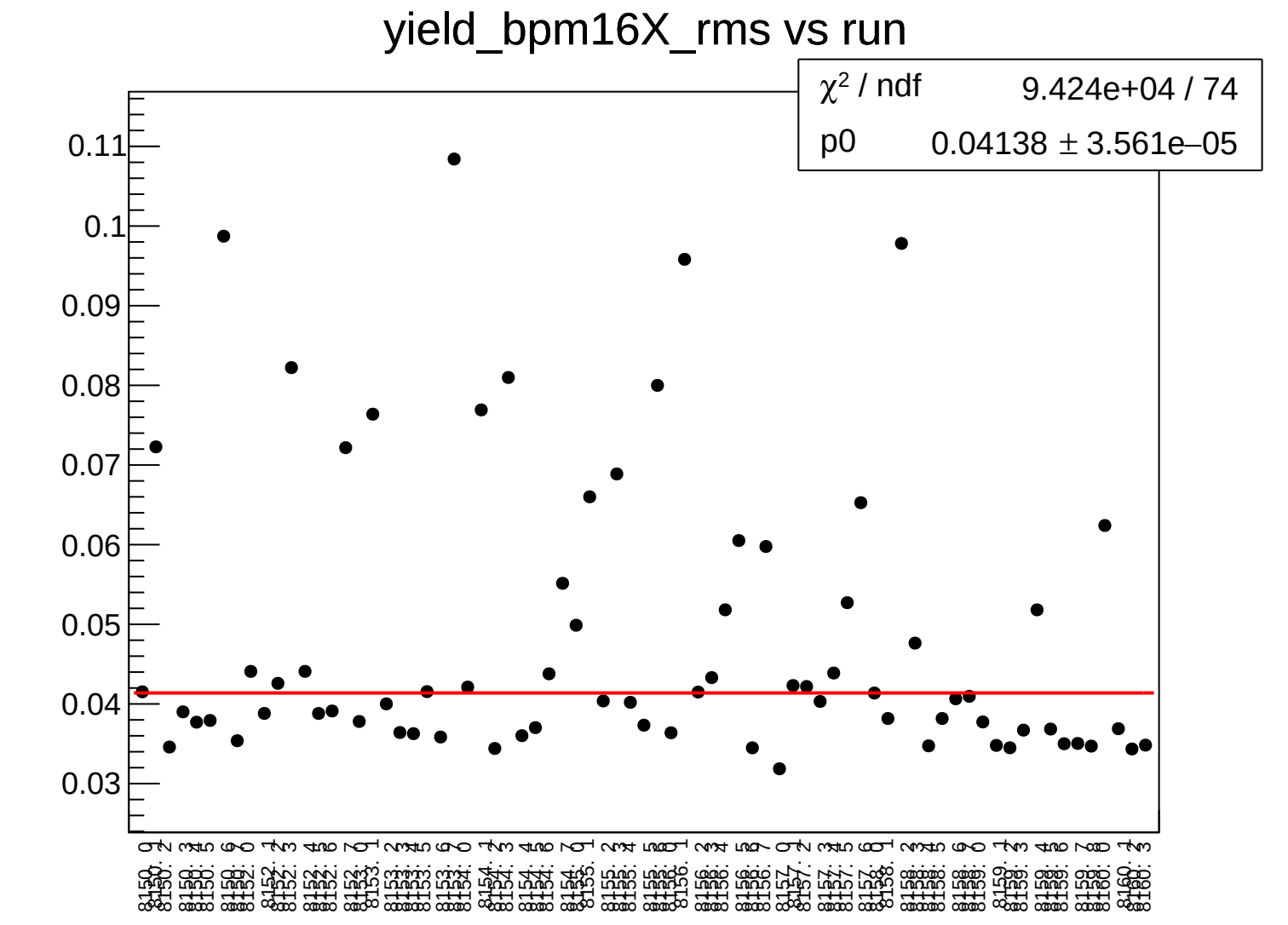

yield_bpm12Y_mean vs run
χ² / ndf 7.471e+05 / 74
p0 1.23 ± 7.446e−06
1.245
1.24
1.235
1.23
1.225
1.22
pull
Entries 75
Mean −536.7
Std Dev 571.7
300
200
100
0
−100
−200

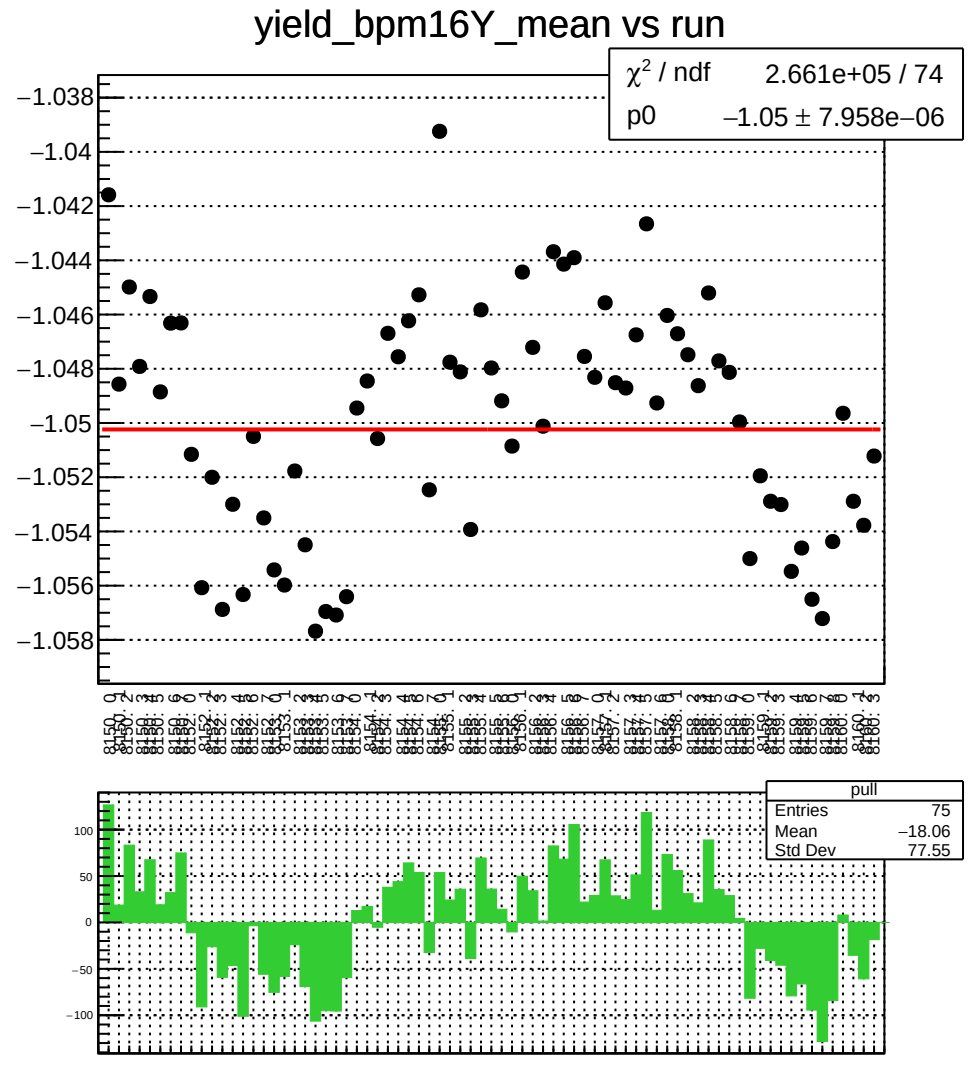

pull1D
Entries 75
Mean −2.454
Std Dev 2.607
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

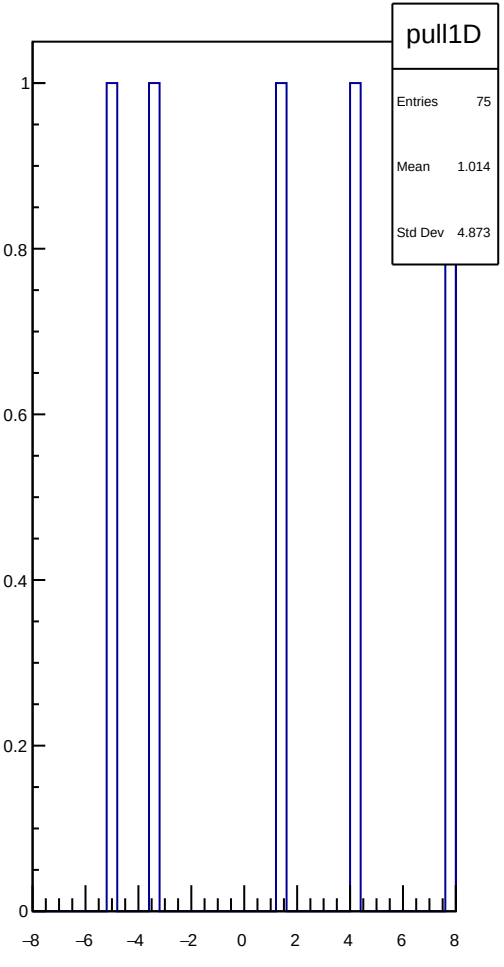

yield_bpm12Y_rms vs run
χ² / ndf 5.963e+04 / 74
p0 0.006197 ± 5.265e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

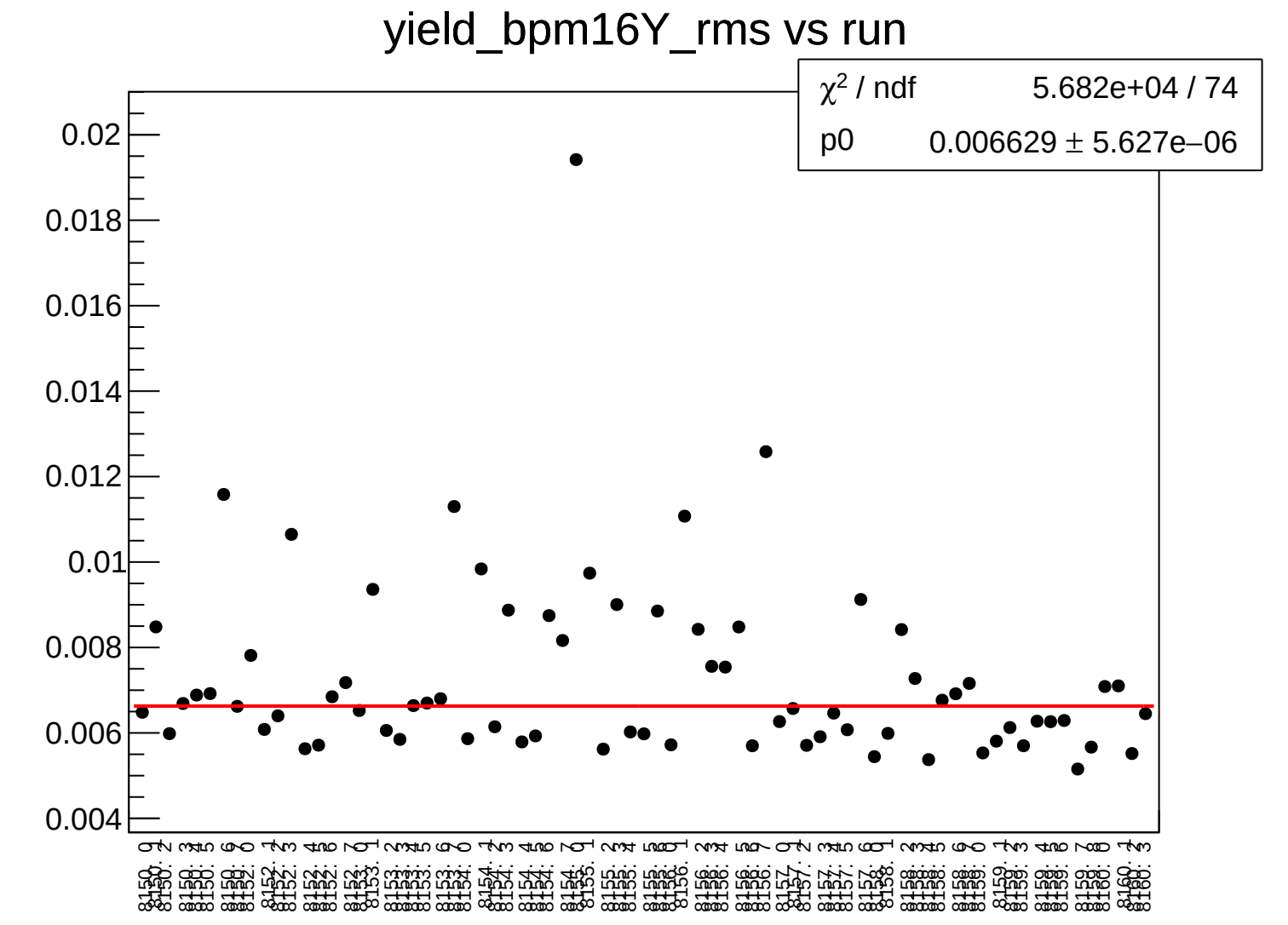

yield_bpm16X_mean vs run
χ² / ndf 1.907e+05 / 74
p0 0.9899 ± 5.036e−05
1.04
1.02
1
0.98
0.96
pull
Entries 75
Mean −227.7
Std Dev 265.9
100
50
0
−50
−100

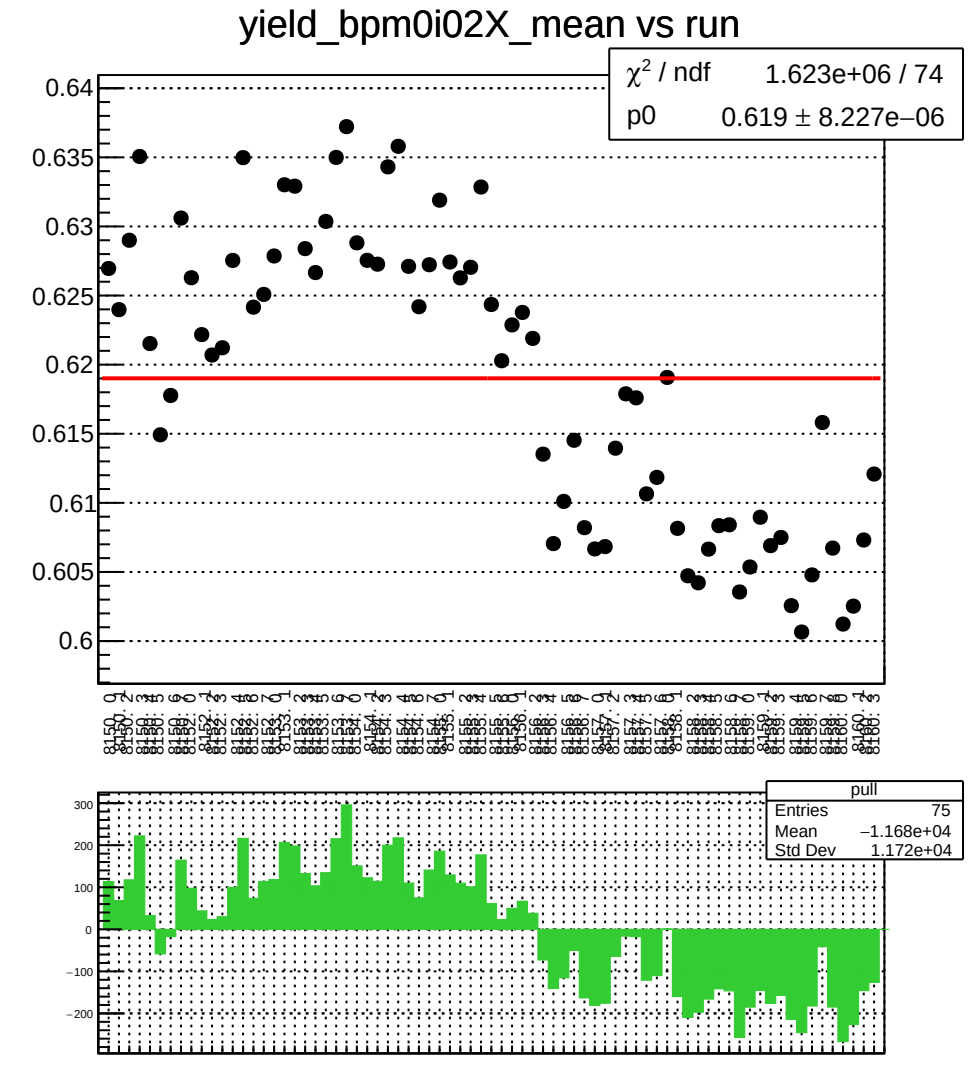

pull1D
Entries 75
Mean 0.03387
Std Dev 4.75
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

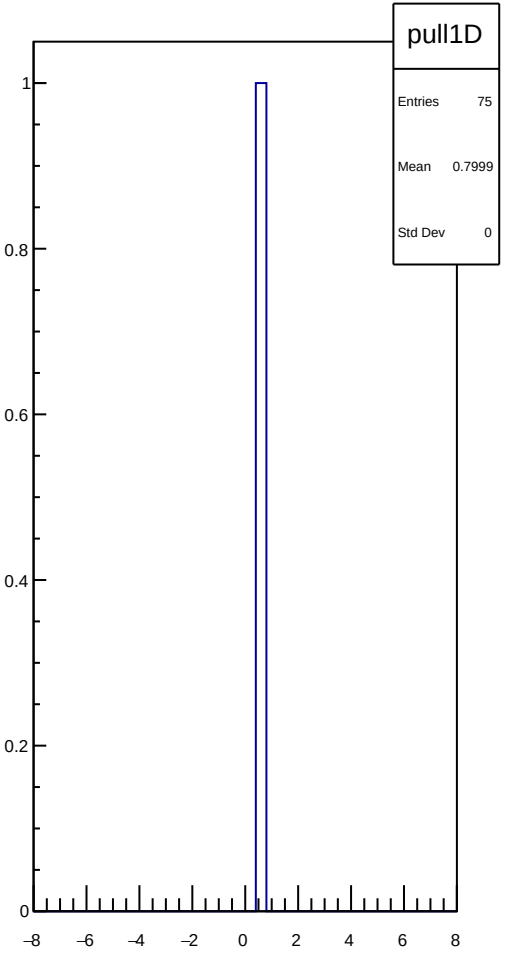

yield_bpm16X_rms vs run
χ² / ndf 9.424e+04 / 74
p0 0.04138 ± 3.561e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

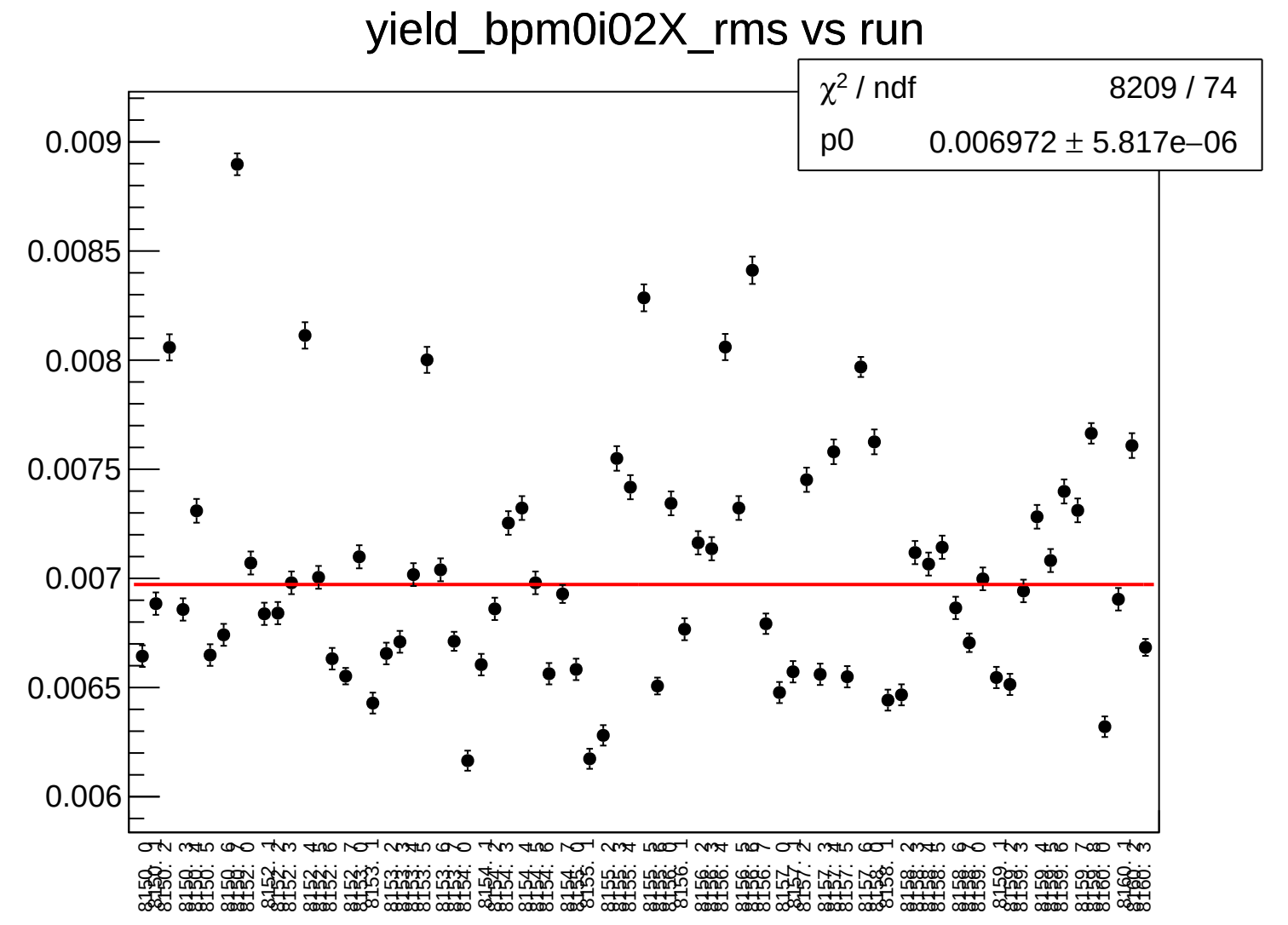

yield_bpm16Y_mean vs run
χ² / ndf 2.661e+05 / 74
p0 −1.05 ± 7.958e−06
−1.038
−1.04
−1.042
−1.044
−1.046
−1.048
−1.05
−1.052
−1.054
−1.056
−1.058
pull
Entries 75
Mean −18.06
Std Dev 77.55
100
50
0
−50
−100

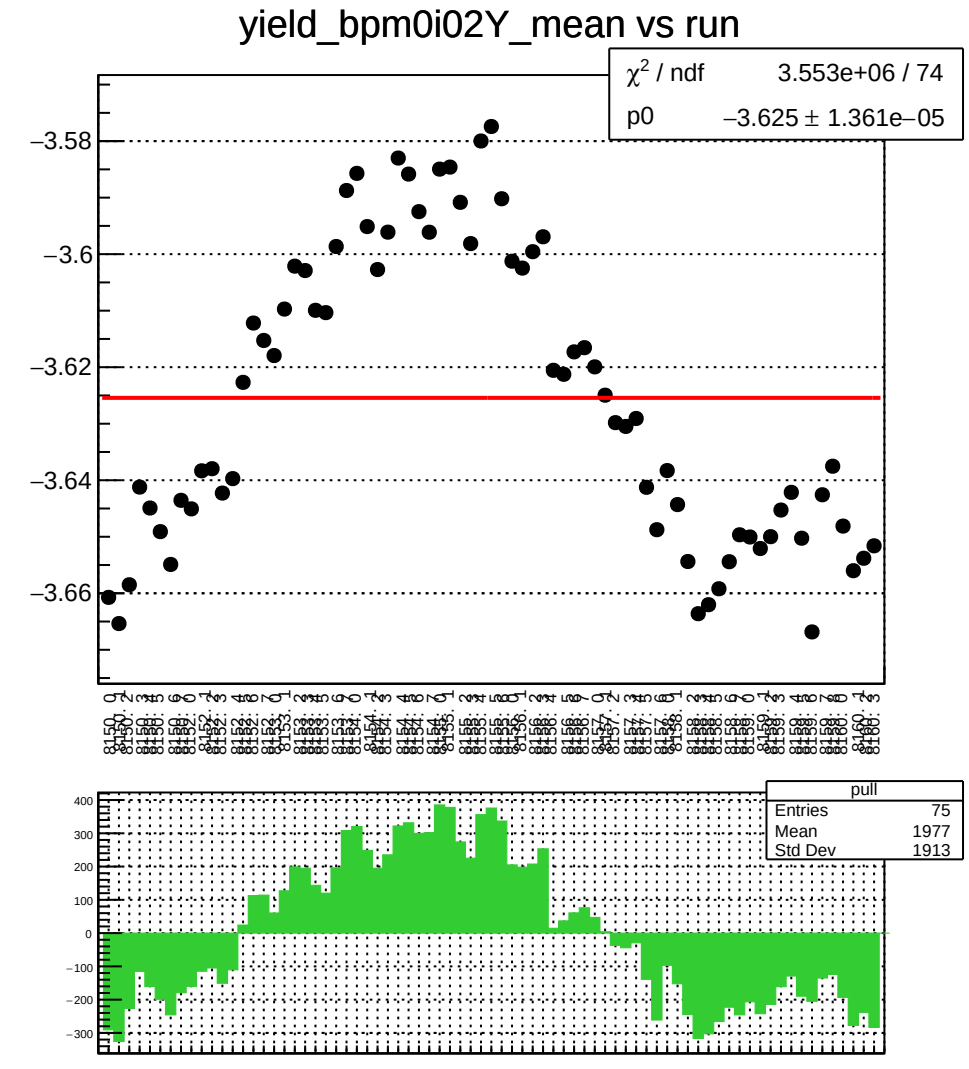

pull1D
Entries 75
Mean 1.014
Std Dev 4.873
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

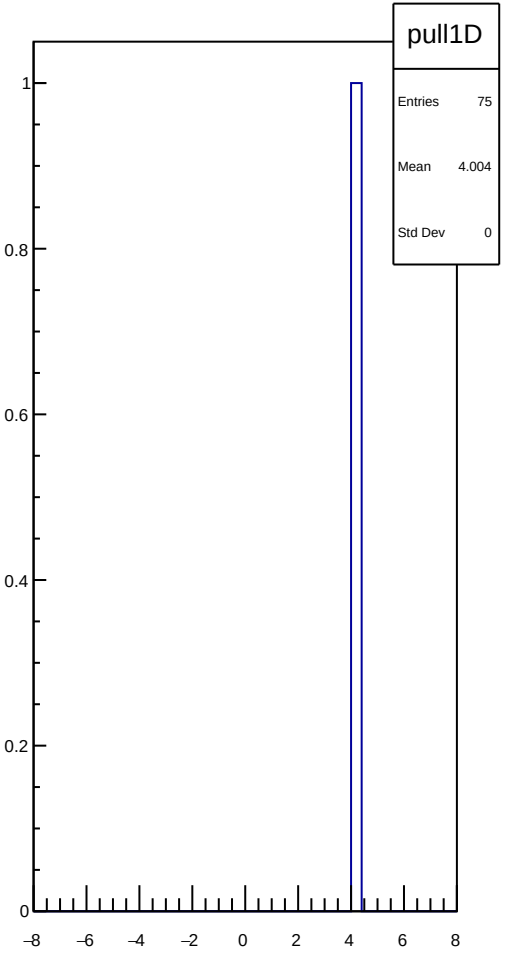

yield_bpm16Y_rms vs run
χ^2 / ndf 5.682e+04 / 74
p0 0.006629 ± 5.627e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

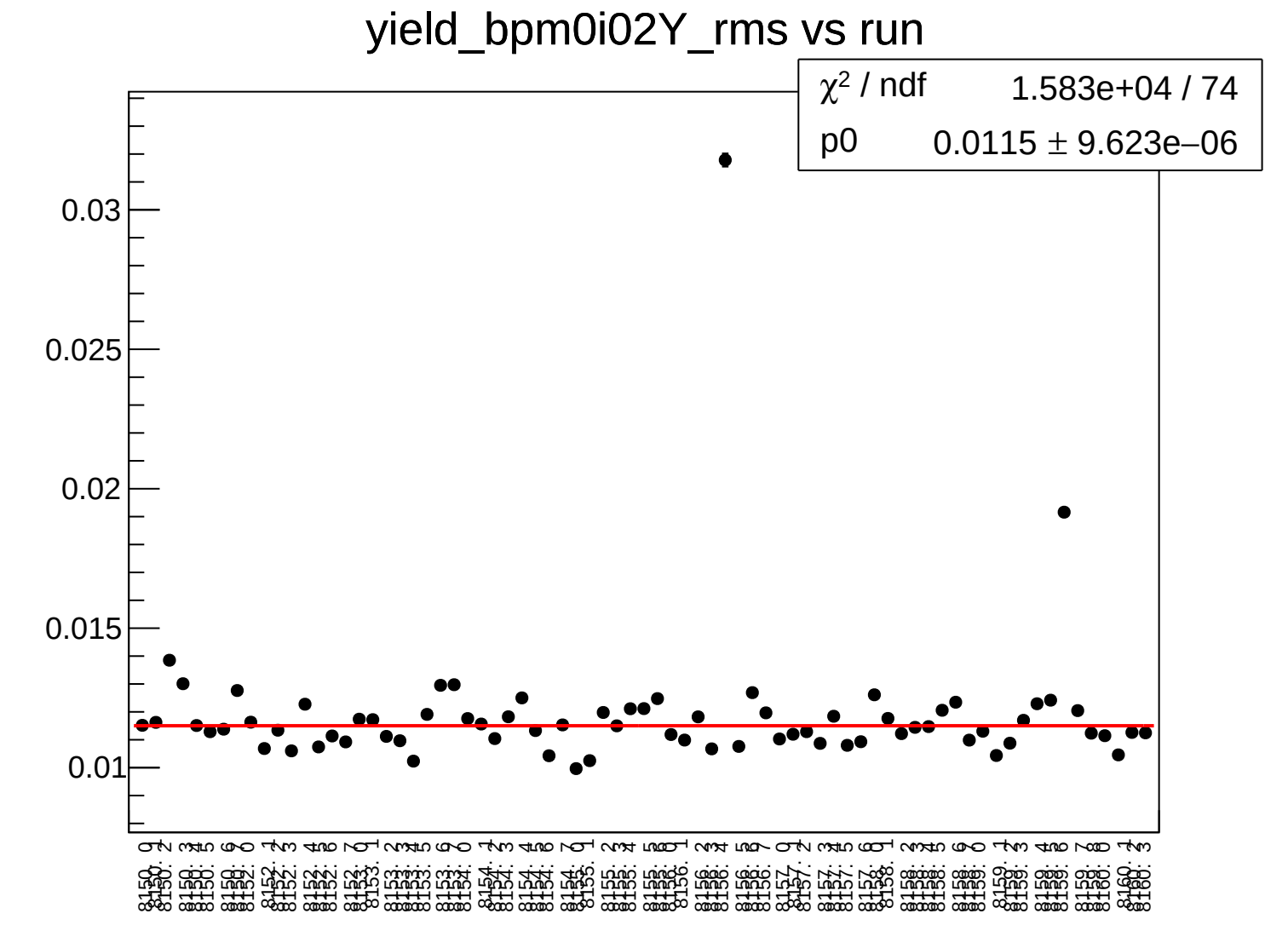

yield_bpm0i02X_mean vs run
χ² / ndf 1.623e+06 / 74
p0 0.619 ± 8.227e−06
pull
Entries 75
Mean −1.168e+04
Std Dev 1.172e+04

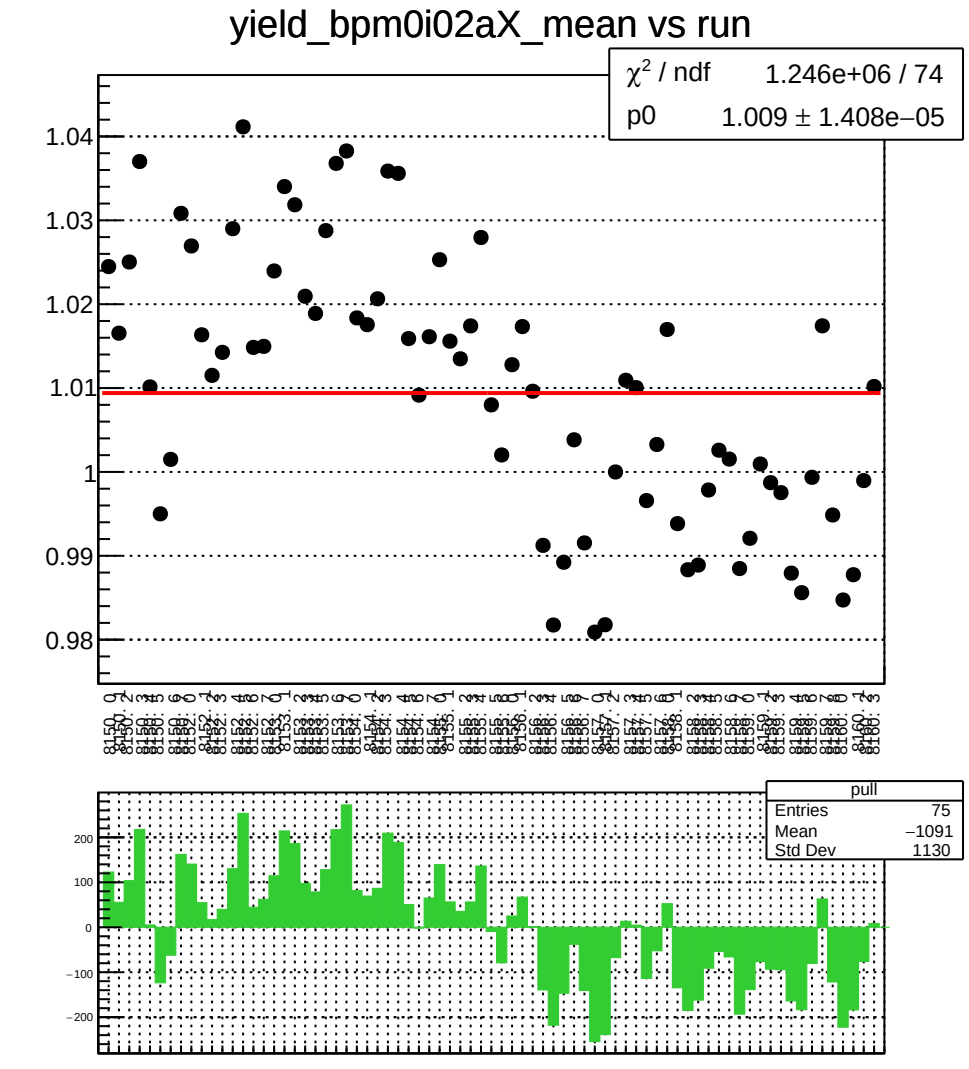

pull1D
Entries 75
Mean 0.7999
Std Dev 0

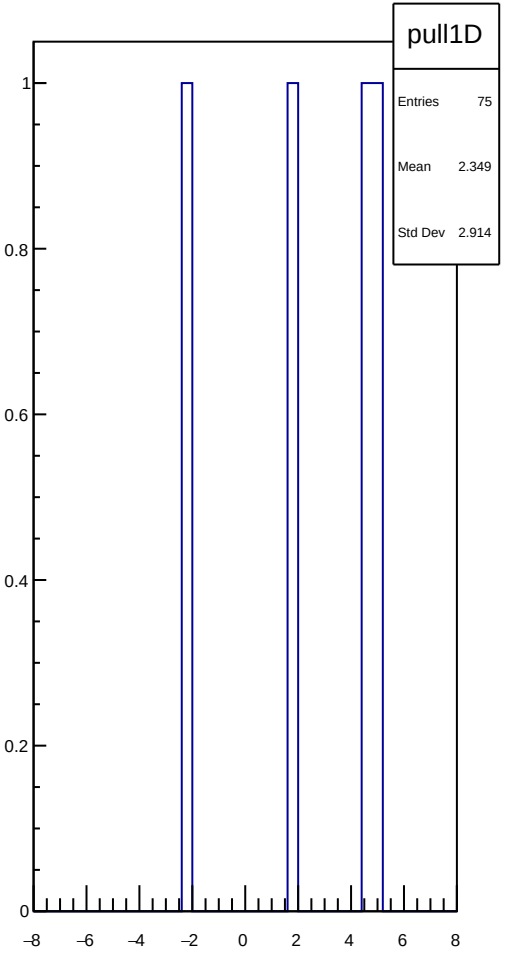

yield_bpm0i02X_rms vs run
χ² / ndf 8209 / 74
p0 0.006972 ± 5.817e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

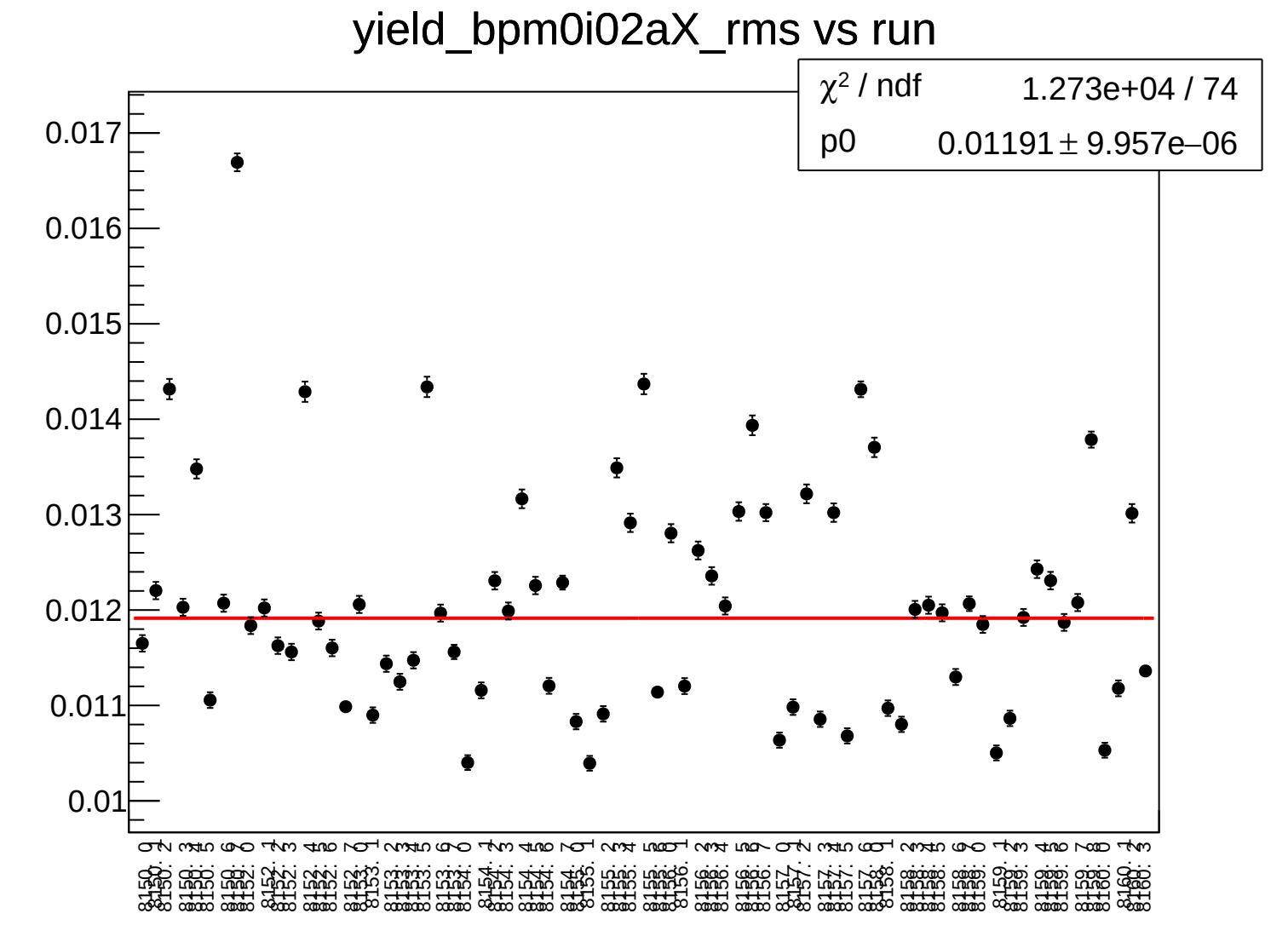

yield_bpm0i02Y_mean vs run
χ² / ndf 3.553e+06 / 74
p0 −3.625 ± 1.361e−05
−3.58
−3.6
−3.62
−3.64
−3.66
pull
Entries 75
Mean 1977
Std Dev 1913
400
300
200
100
0
−100
−200
−300

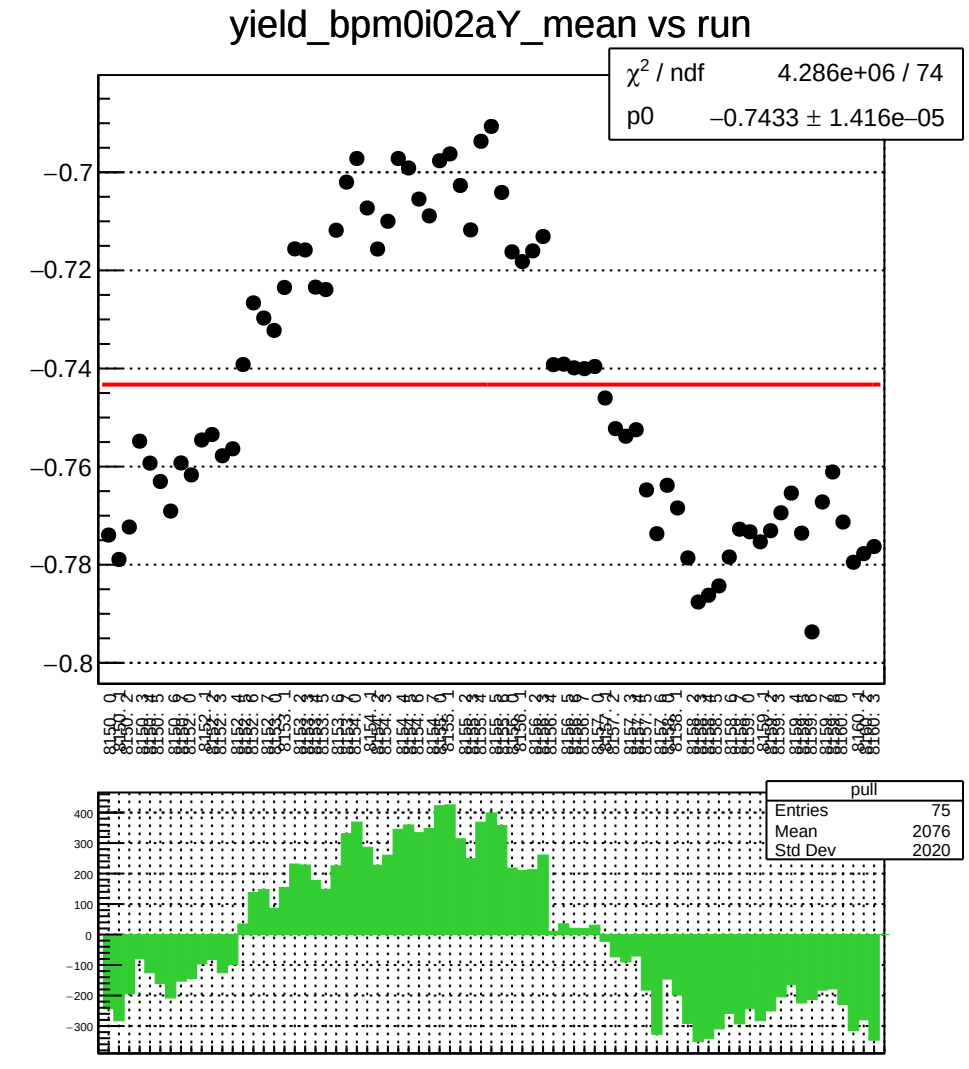

pull1D
Entries 75
Mean 4.004
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

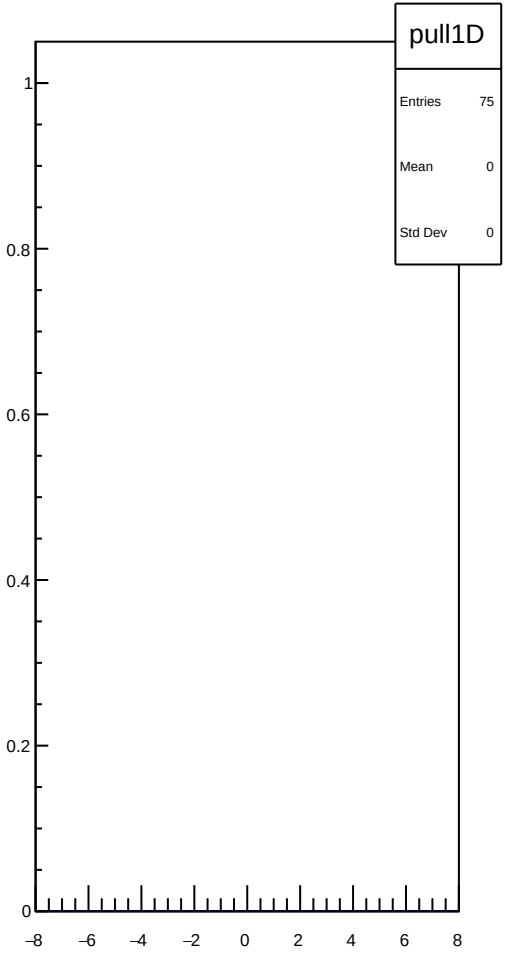

yield_bpm0i02Y_rms vs run
χ² / ndf 1.583e+04 / 74
p0 0.0115 ± 9.623e−06
0.03
0.025
0.02
0.015
0.01

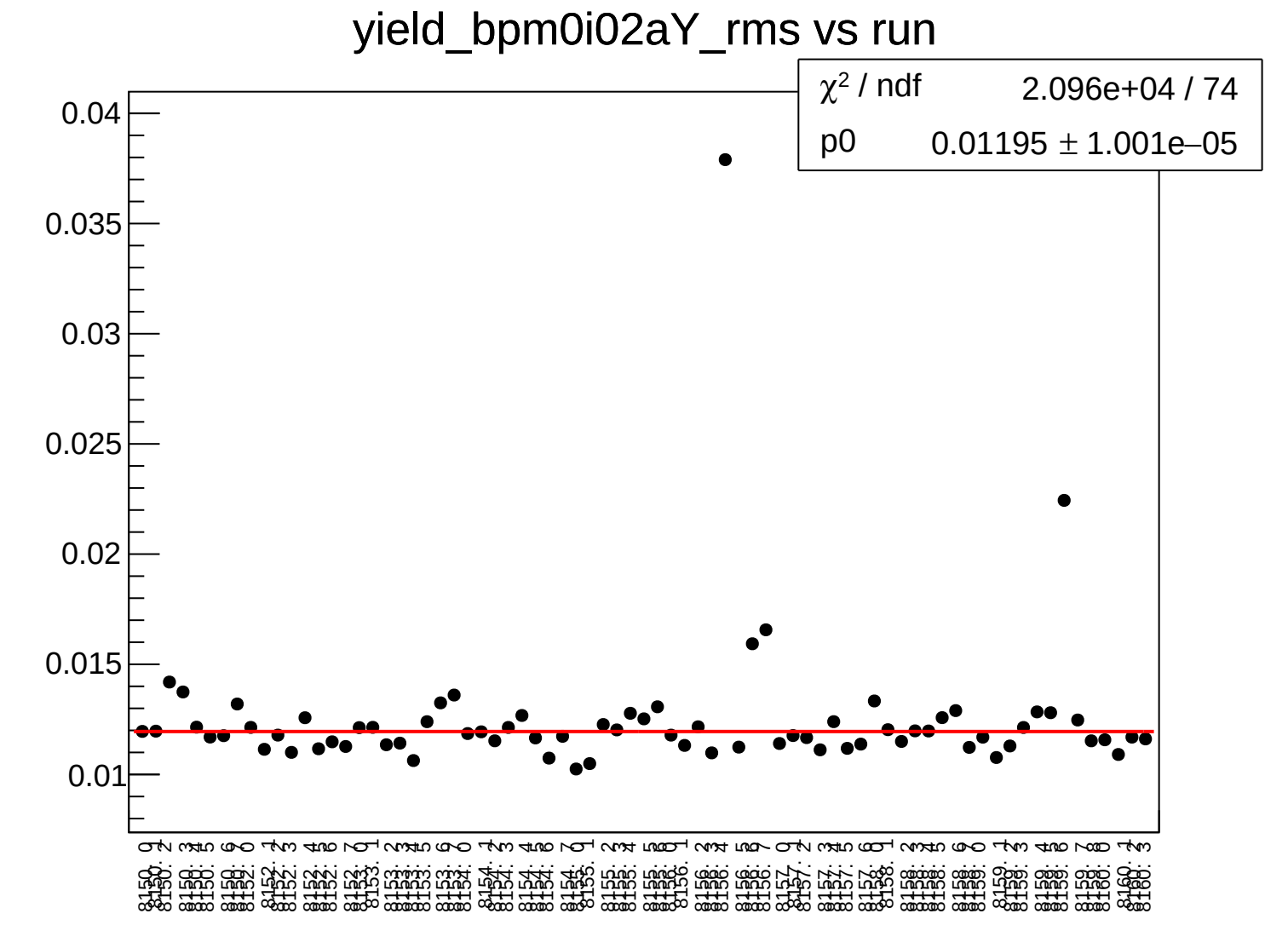

yield_bpm0i02aX_mean vs run
χ² / ndf 1.246e+06 / 74
p0 1.009 ± 1.408e−05
1.04
1.03
1.02
1.01
1
0.99
0.98
pull
Entries 75
Mean −1091
Std Dev 1130
200
100
0
−100
−200

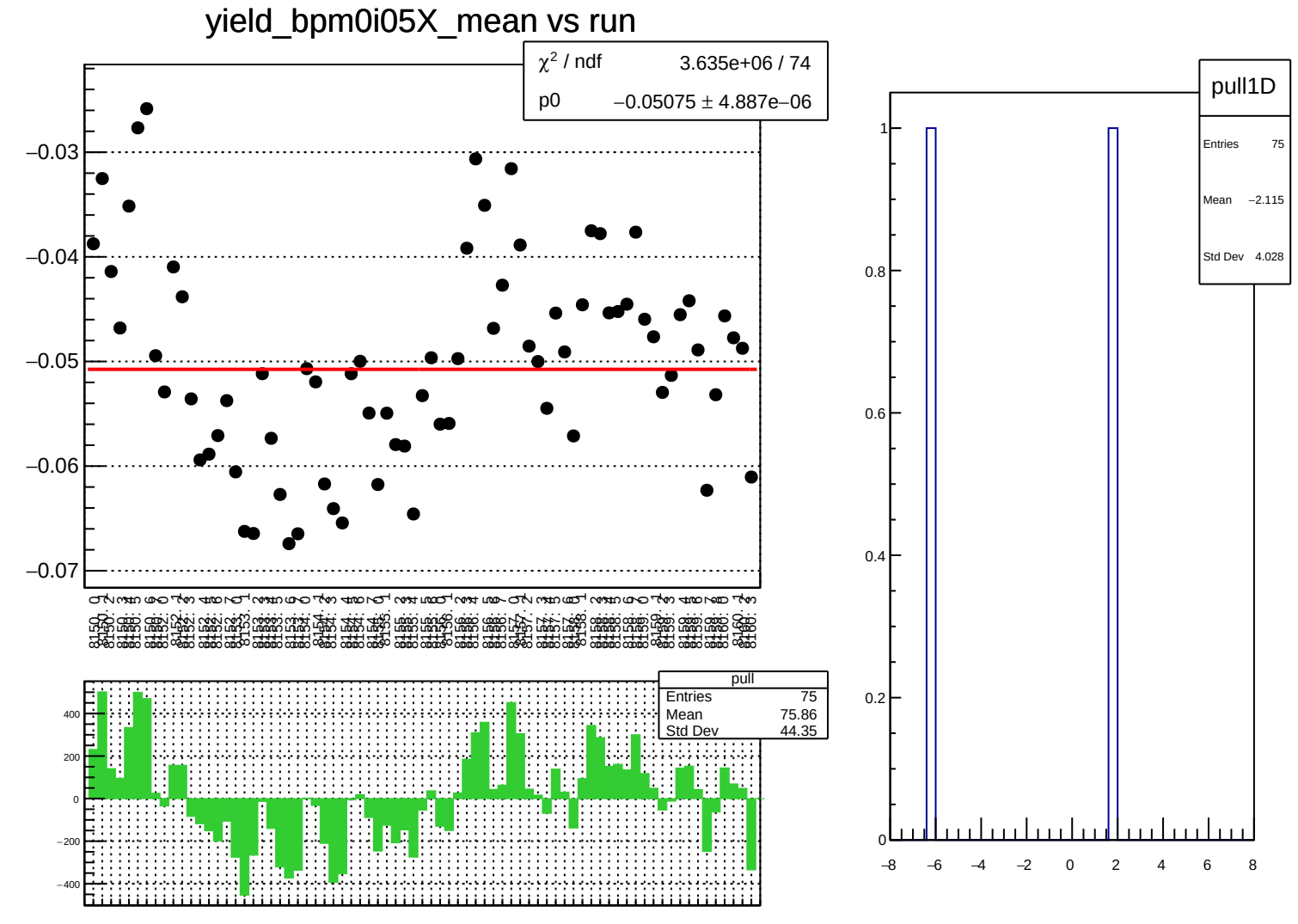

pull1D
Entries 75
Mean 2.349
Std Dev 2.914
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

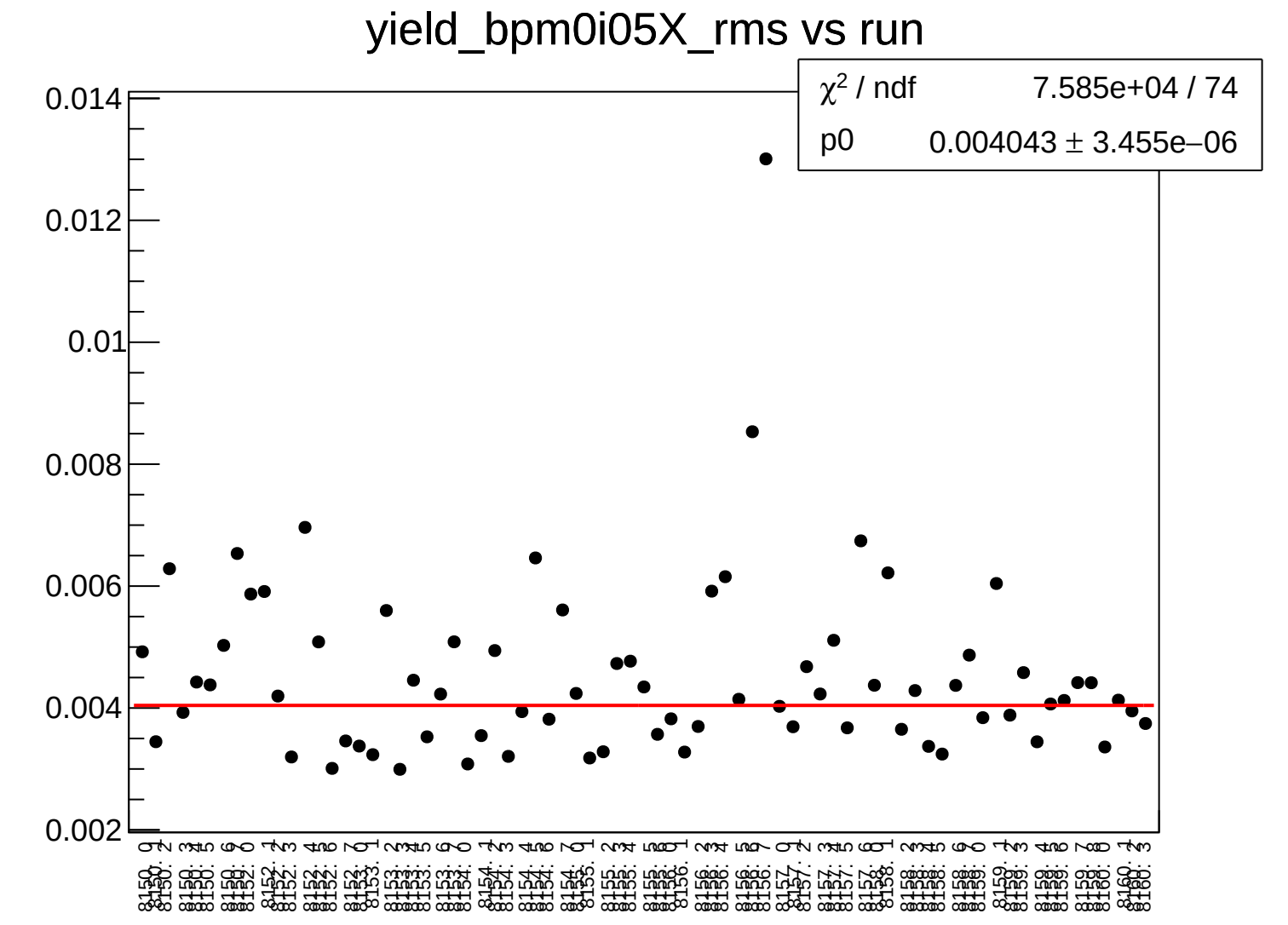

yield_bpm0i02aX_rms vs run
χ² / ndf 1.273e+04 / 74
p0 0.01191 ± 9.957e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

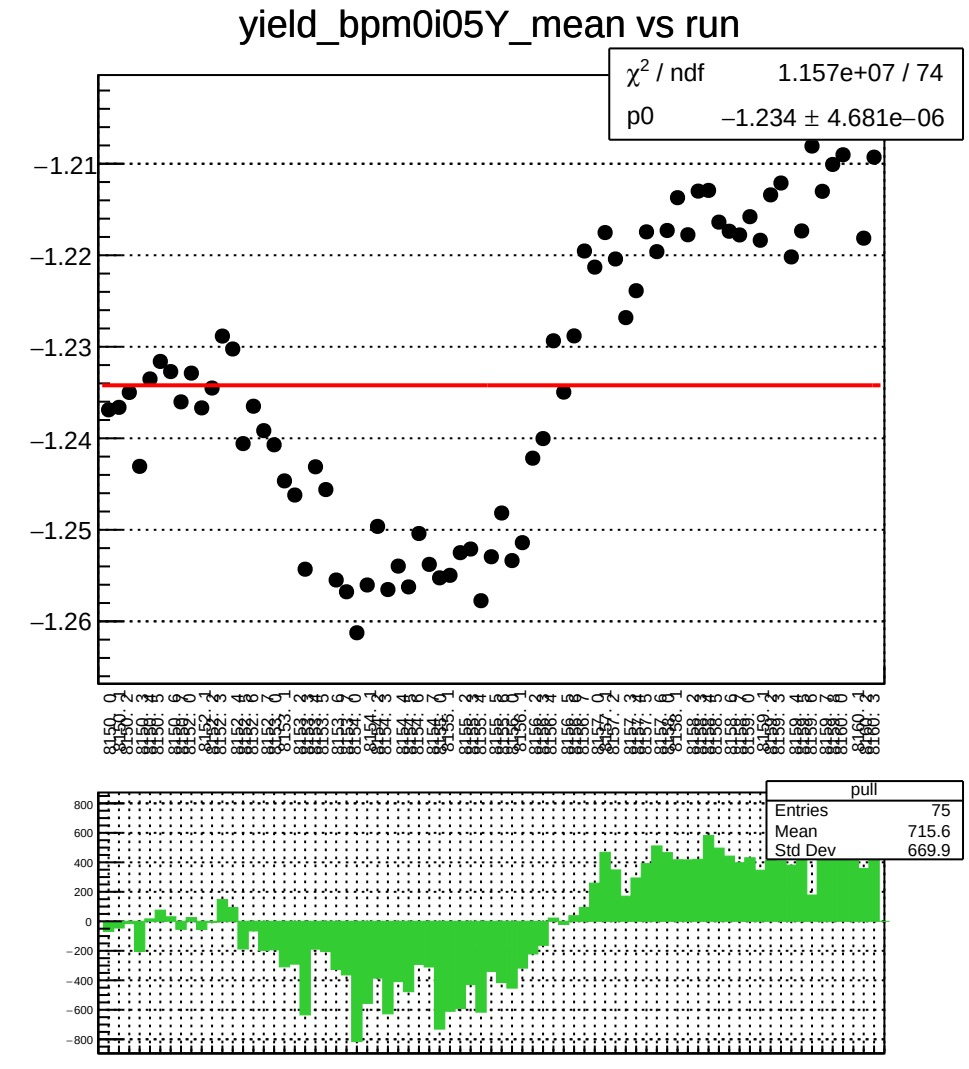

yield_bpm0i02aY_mean vs run
χ² / ndf 4.286e+06 / 74
p0 −0.7433 ± 1.416e−05
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
pull
Entries 75
Mean 2076
Std Dev 2020
400
300
200
100
0
−100
−200
−300

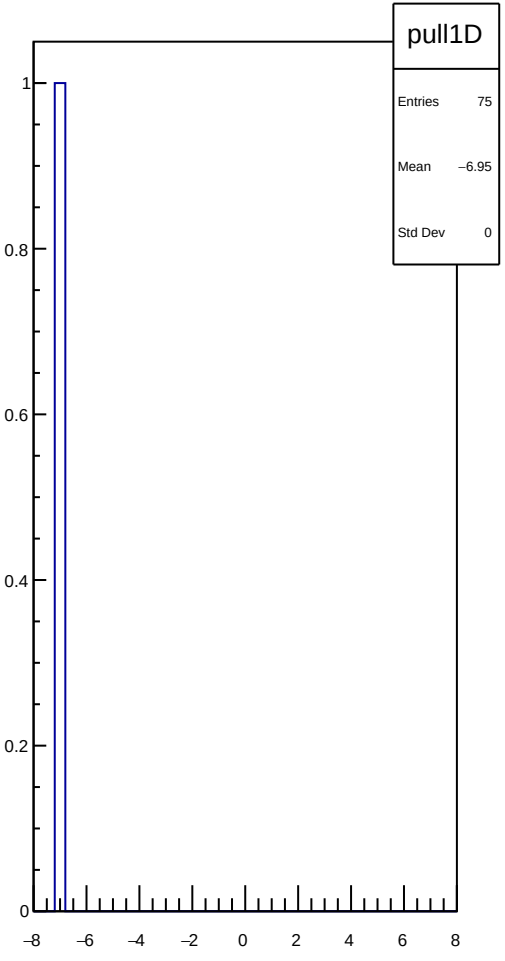

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

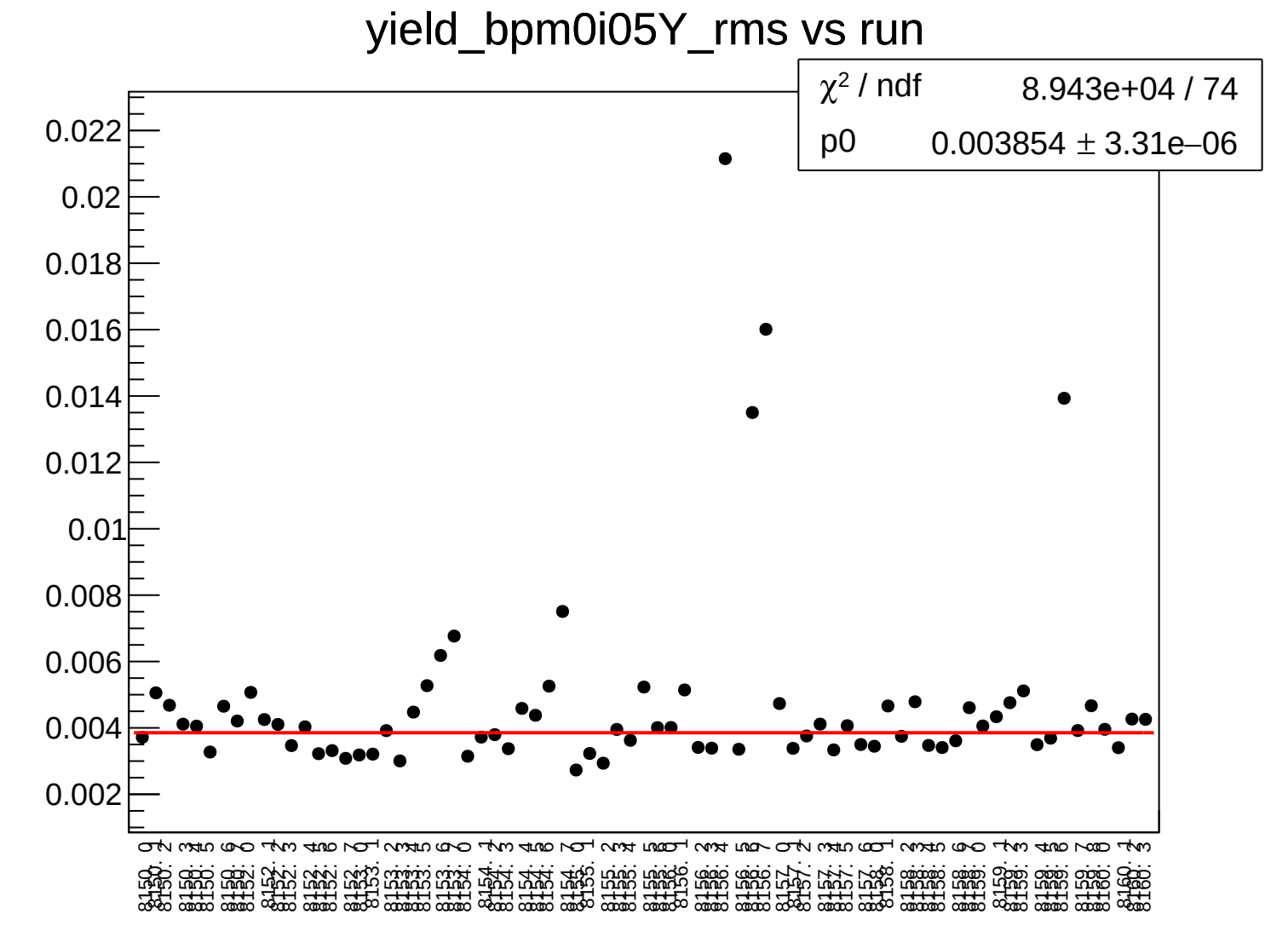

yield_bpm0i02aY_rms vs run
χ² / ndf 2.096e+04 / 74
p0 0.01195 ± 1.001e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

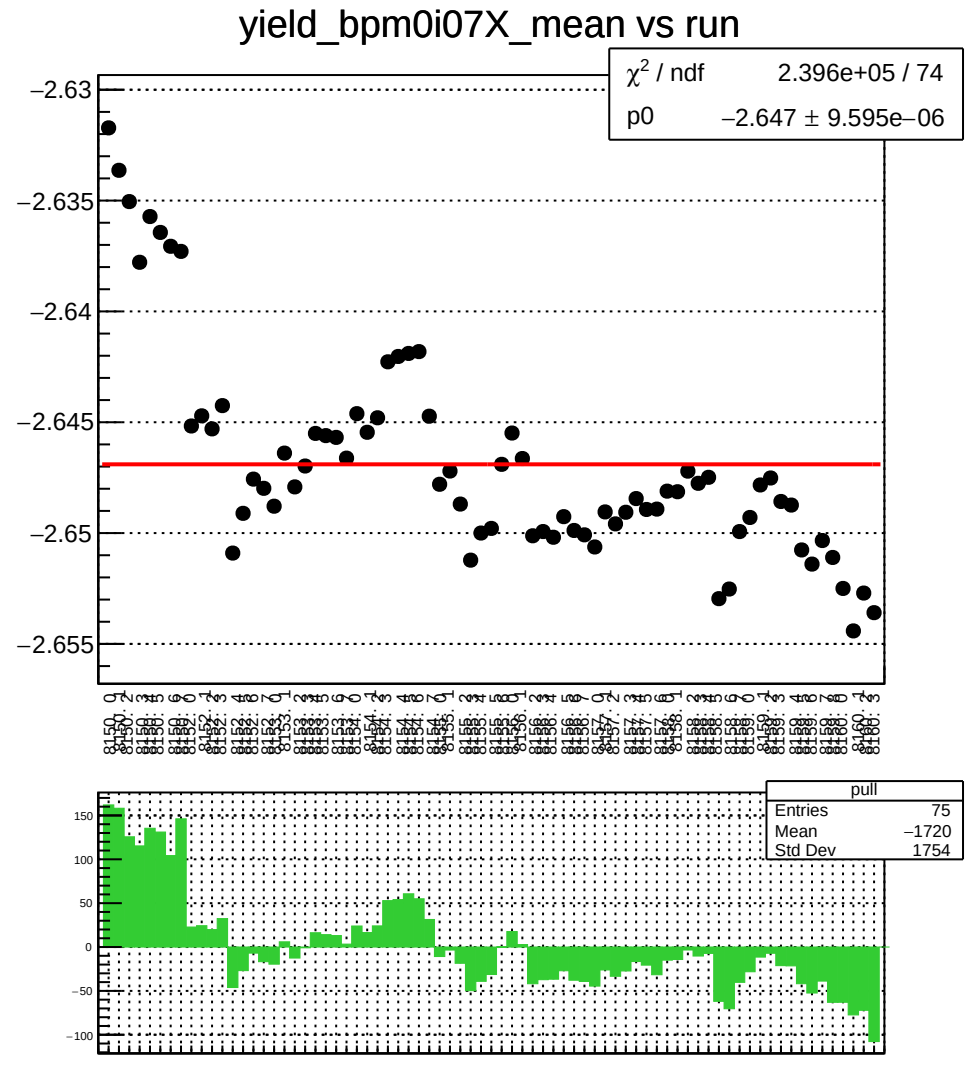

yield_bpm0i05X_mean vs run
χ² / ndf 3.635e+06 / 74
p0 −0.05075 ± 4.887e−06
−0.03
−0.04
−0.05
−0.06
−0.07
pull
Entries 75
Mean 75.86
Std Dev 44.35
400
200
0
−200
−400
pull1D
Entries 75
Mean −2.115
Std Dev 4.028
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

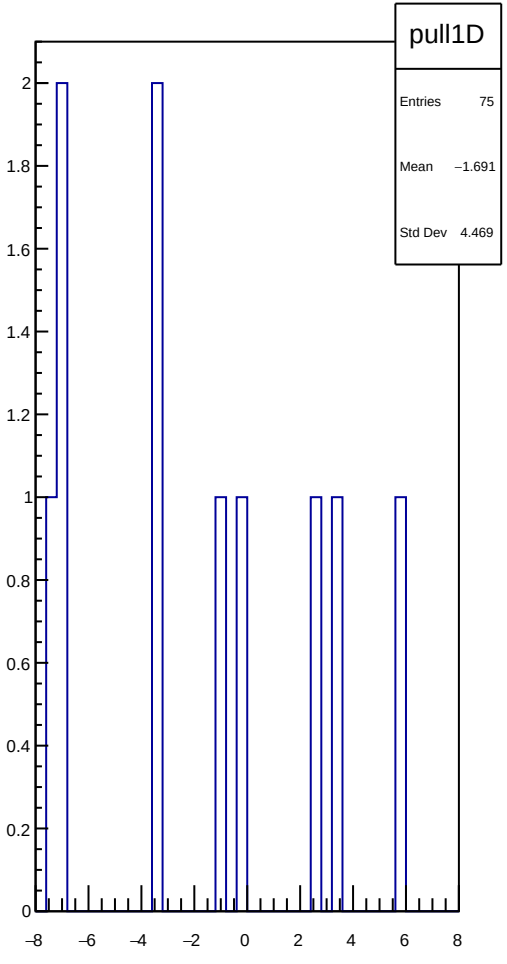

yield_bpm0i05X_rms vs run
χ² / ndf 7.585e+04 / 74
p0 0.004043 ± 3.455e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

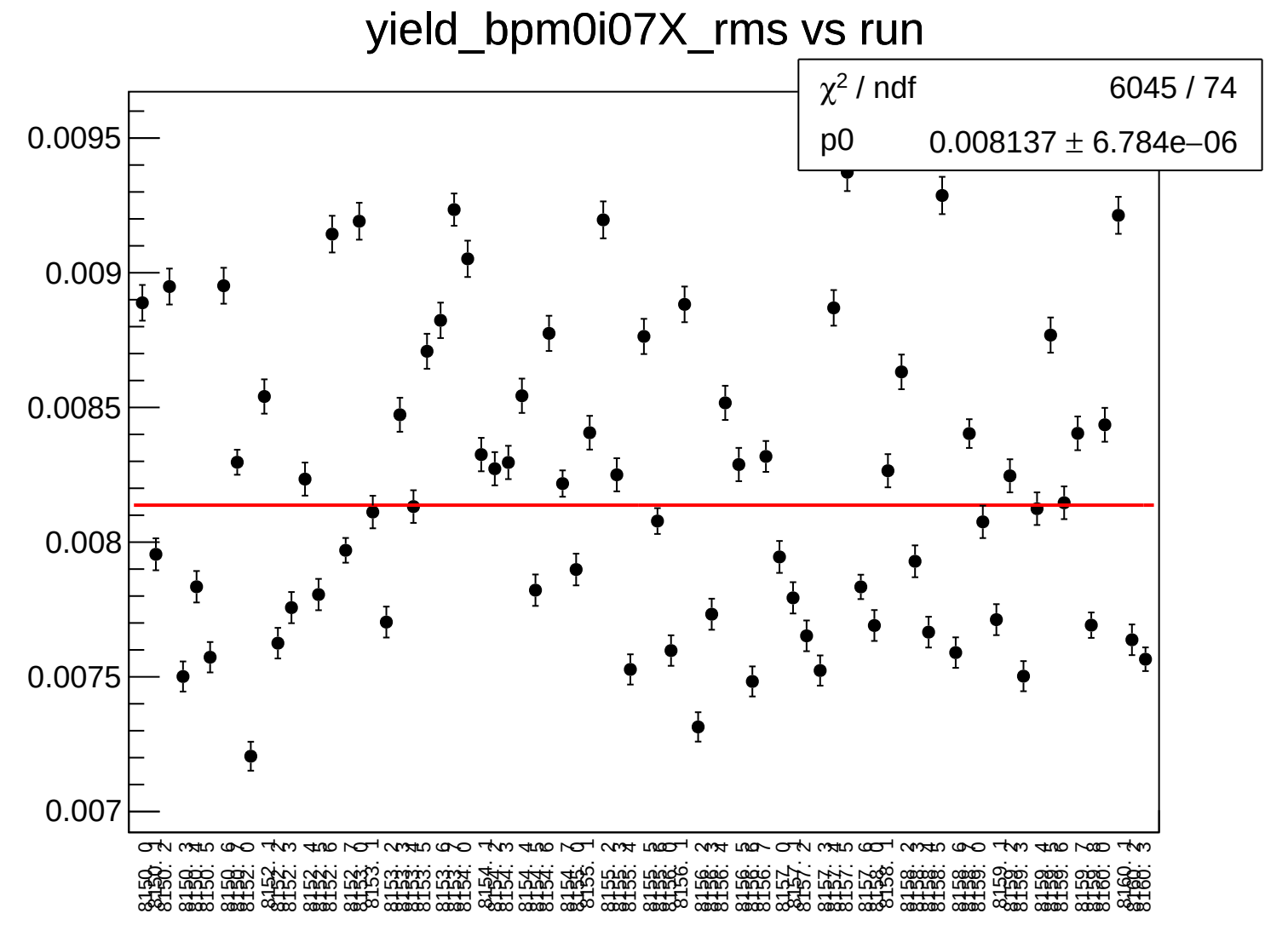

yield_bpm0i05Y_mean vs run
χ² / ndf 1.157e+07 / 74
p0 −1.234 ± 4.681e−06
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
pull
Entries 75
Mean 715.6
Std Dev 669.9
800
600
400
200
0
−200
−400
−600
−800

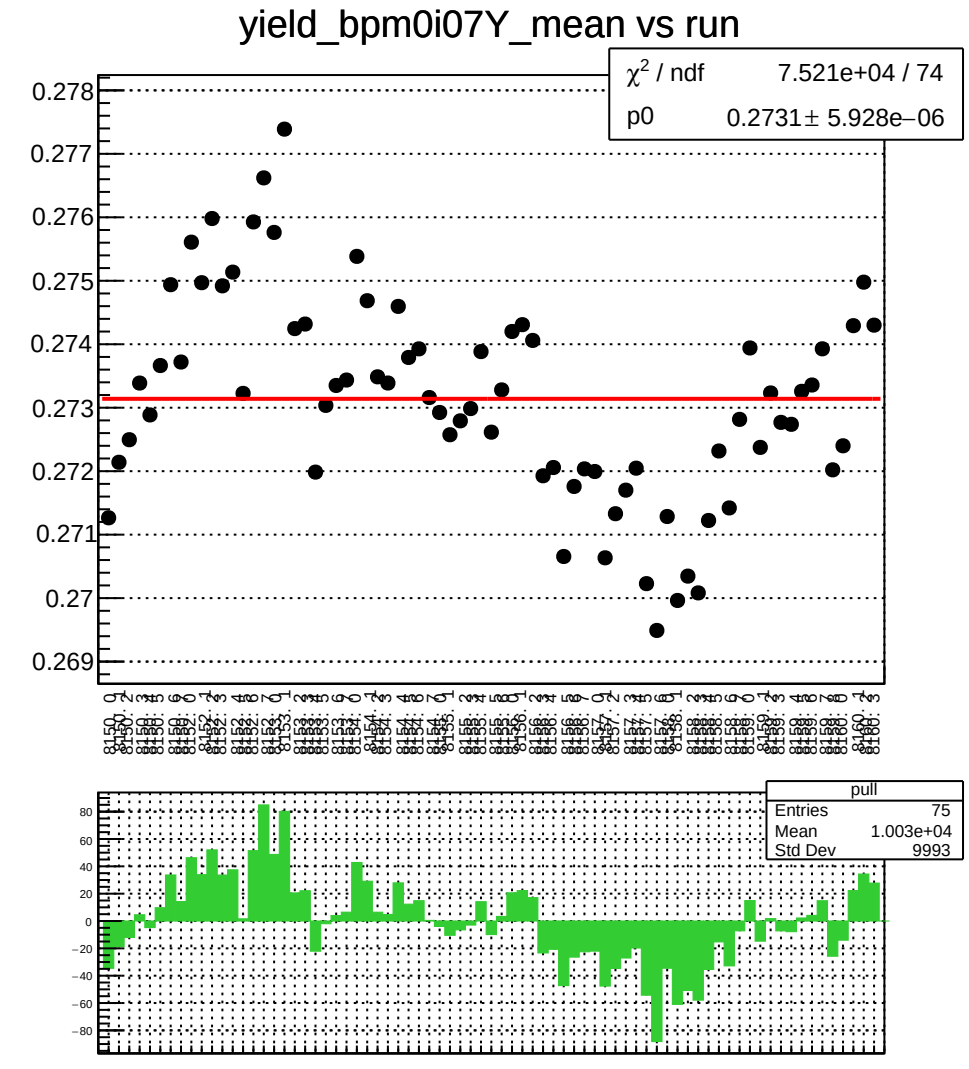

pull1D
Entries 75
Mean −6.95
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

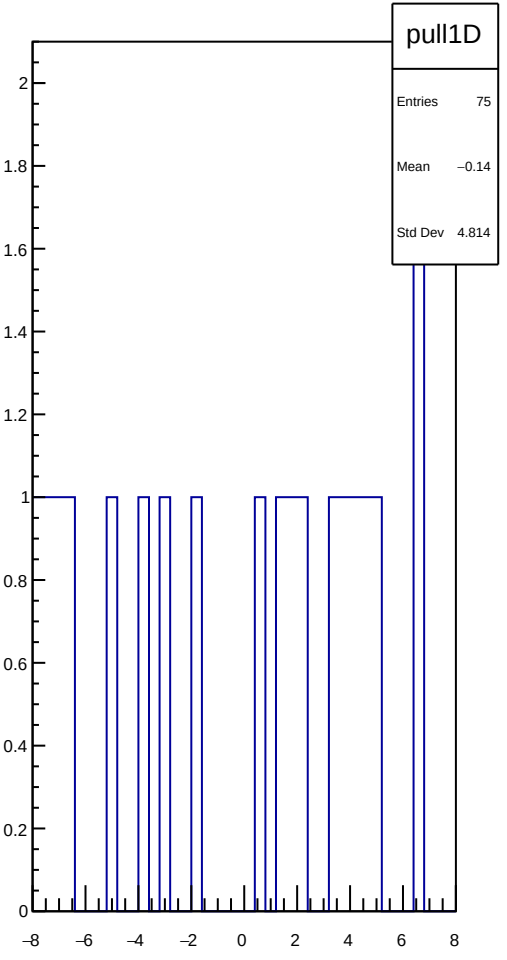

yield_bpm0i05Y_rms vs run
χ² / ndf 8.943e+04 / 74
p0 0.003854 ± 3.31e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

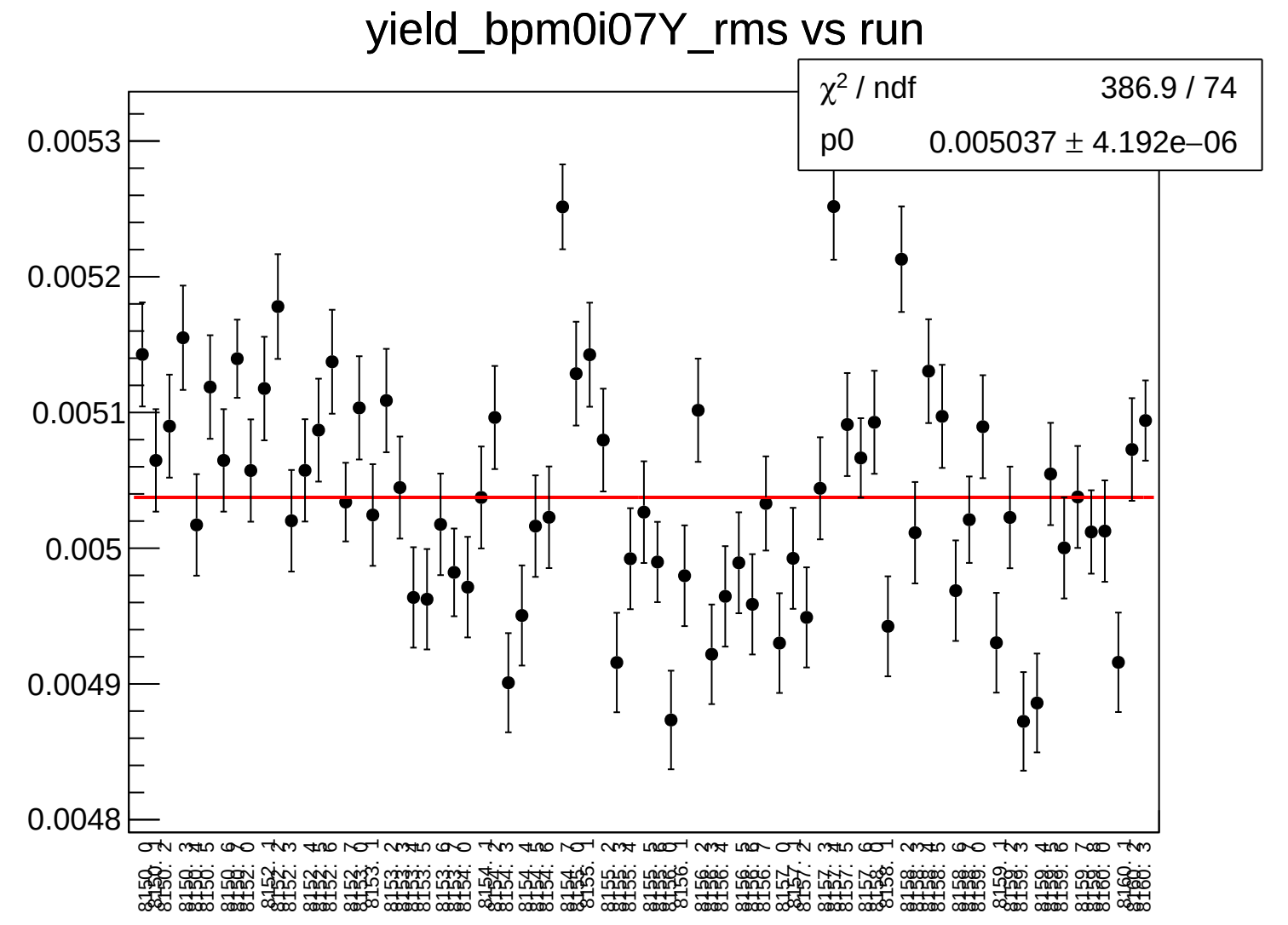

yield_bpm0i07X_mean vs run
χ² / ndf 2.396e+05 / 74
p0 −2.647 ± 9.595e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
pull
Entries 75
Mean −1720
Std Dev 1754
150
100
50
0
−50
−100

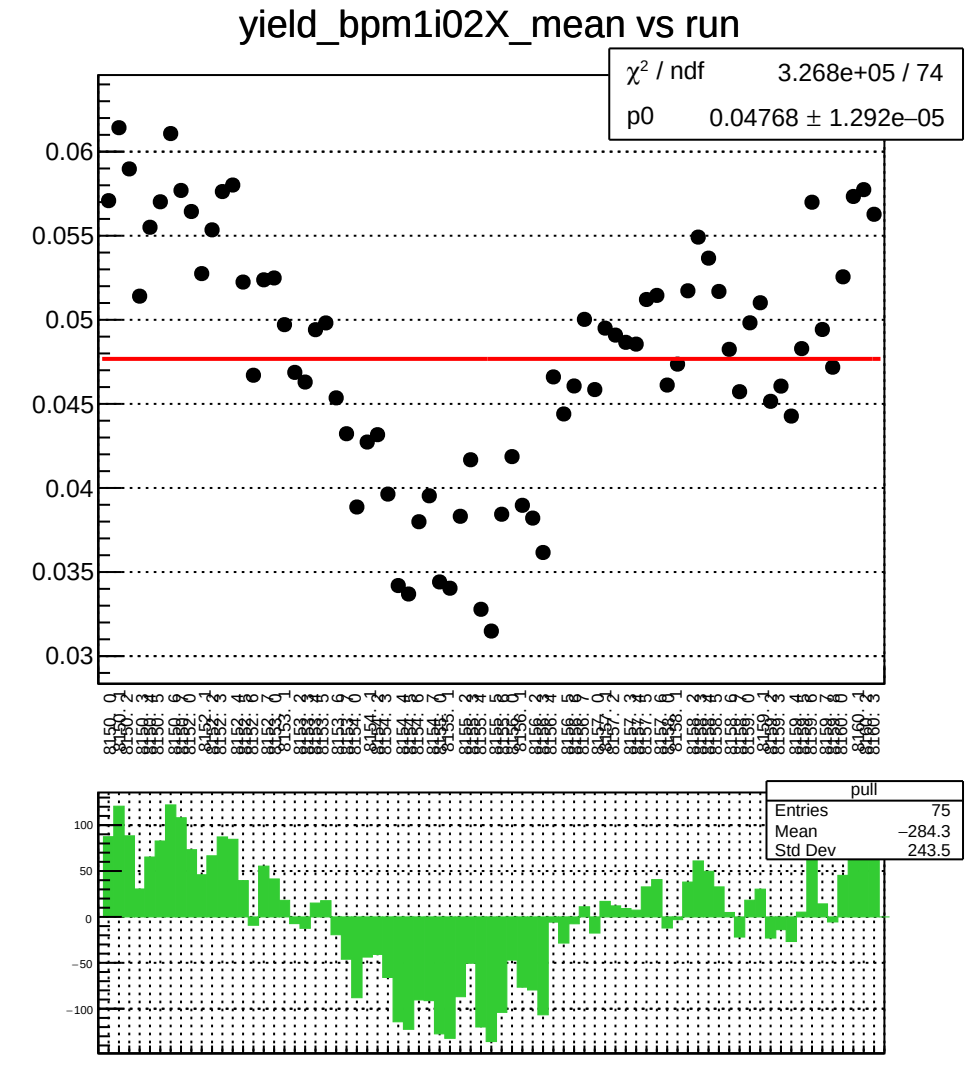

pull1D
Entries 75
Mean −1.691
Std Dev 4.469
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

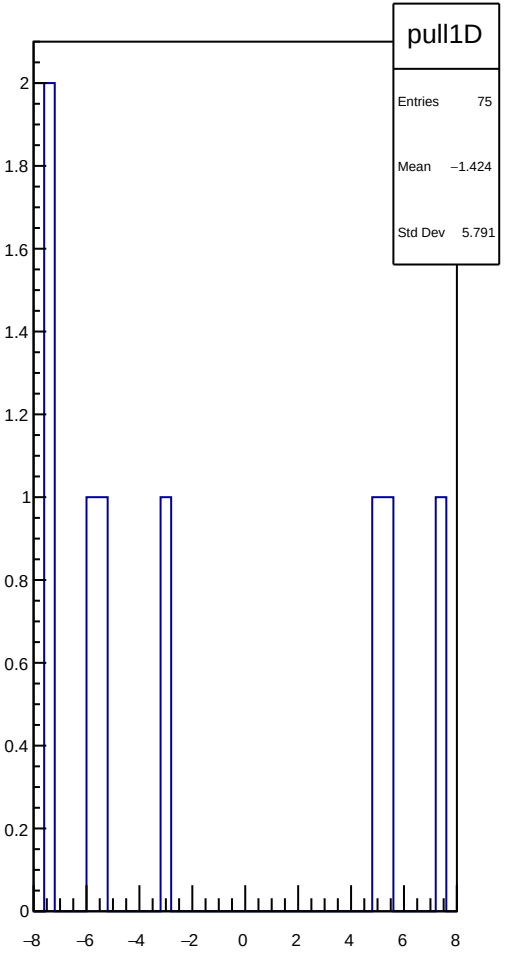

yield_bpm0i07X_rms vs run
χ² / ndf 6045 / 74
p0 0.008137 ± 6.784e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

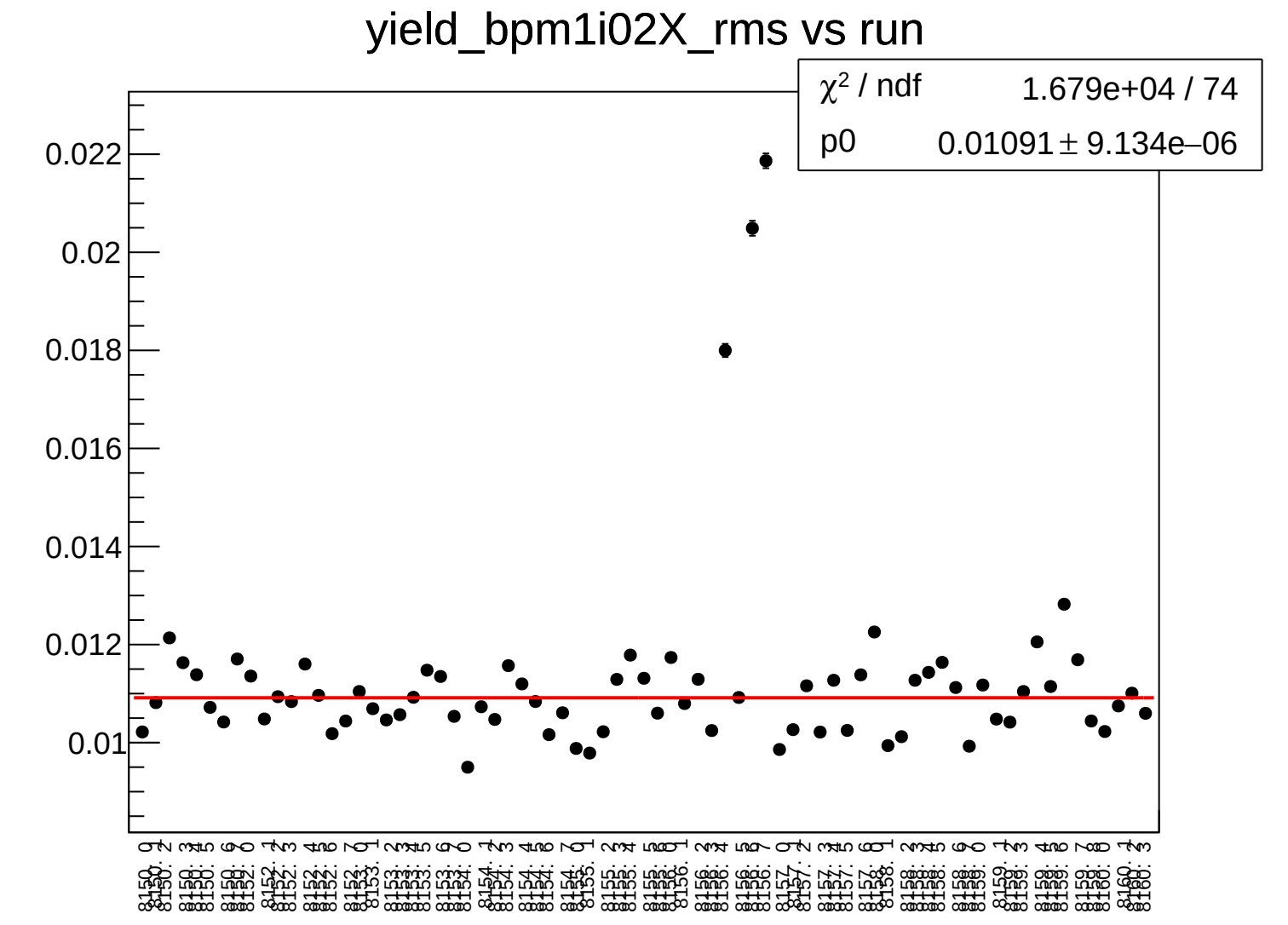

yield_bpm0i07Y_mean vs run
χ² / ndf 7.521e+04 / 74
p0 0.2731 ± 5.928e−06
pull
Entries 75
Mean 1.003e+04
Std Dev 9993

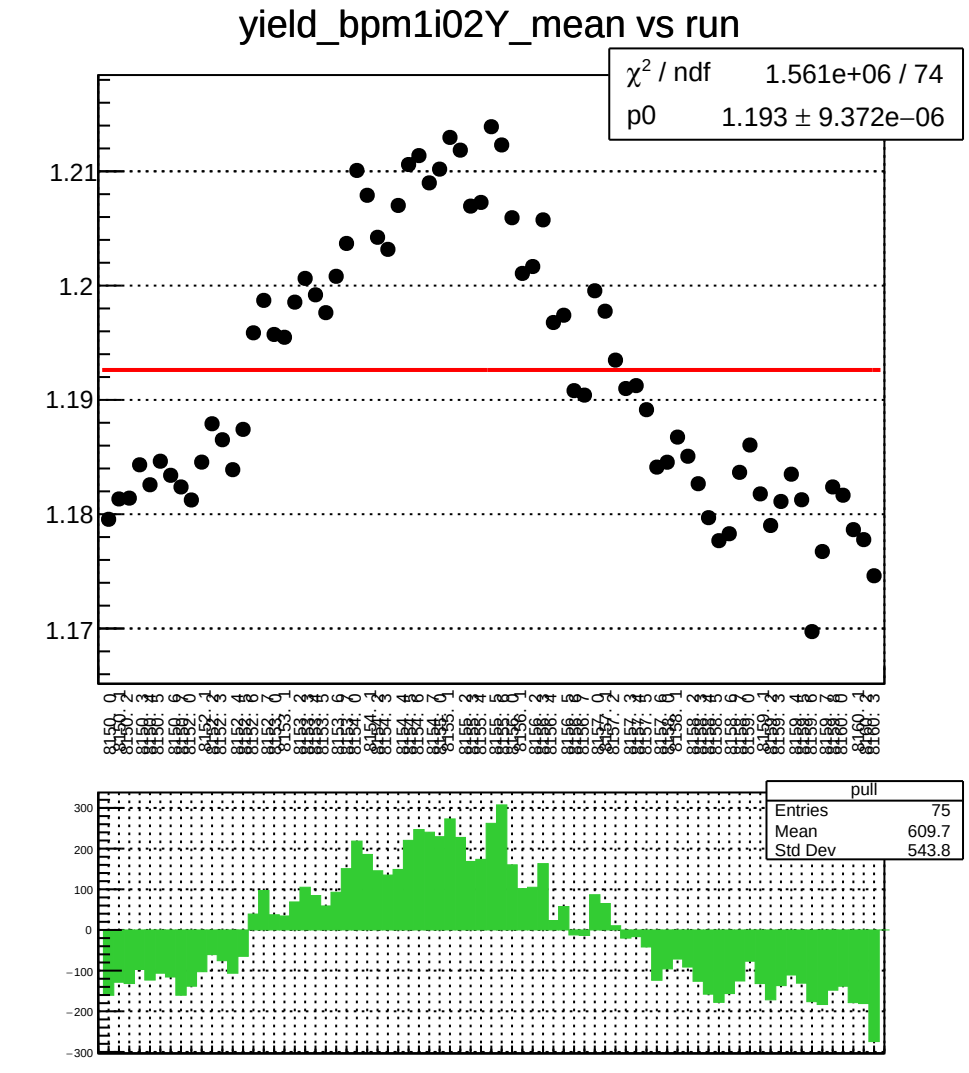

pull1D
Entries 75
Mean −0.14
Std Dev 4.814

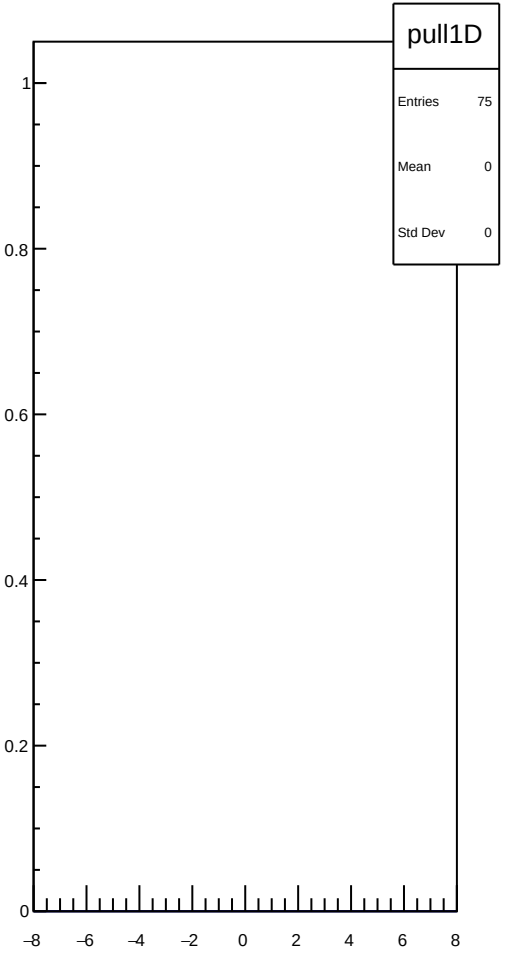

yield_bpm0i07Y_rms vs run
χ² / ndf 386.9 / 74
p0 0.005037 ± 4.192e−06
0.0053
0.0052
0.0051
0.005
0.0049
0.0048

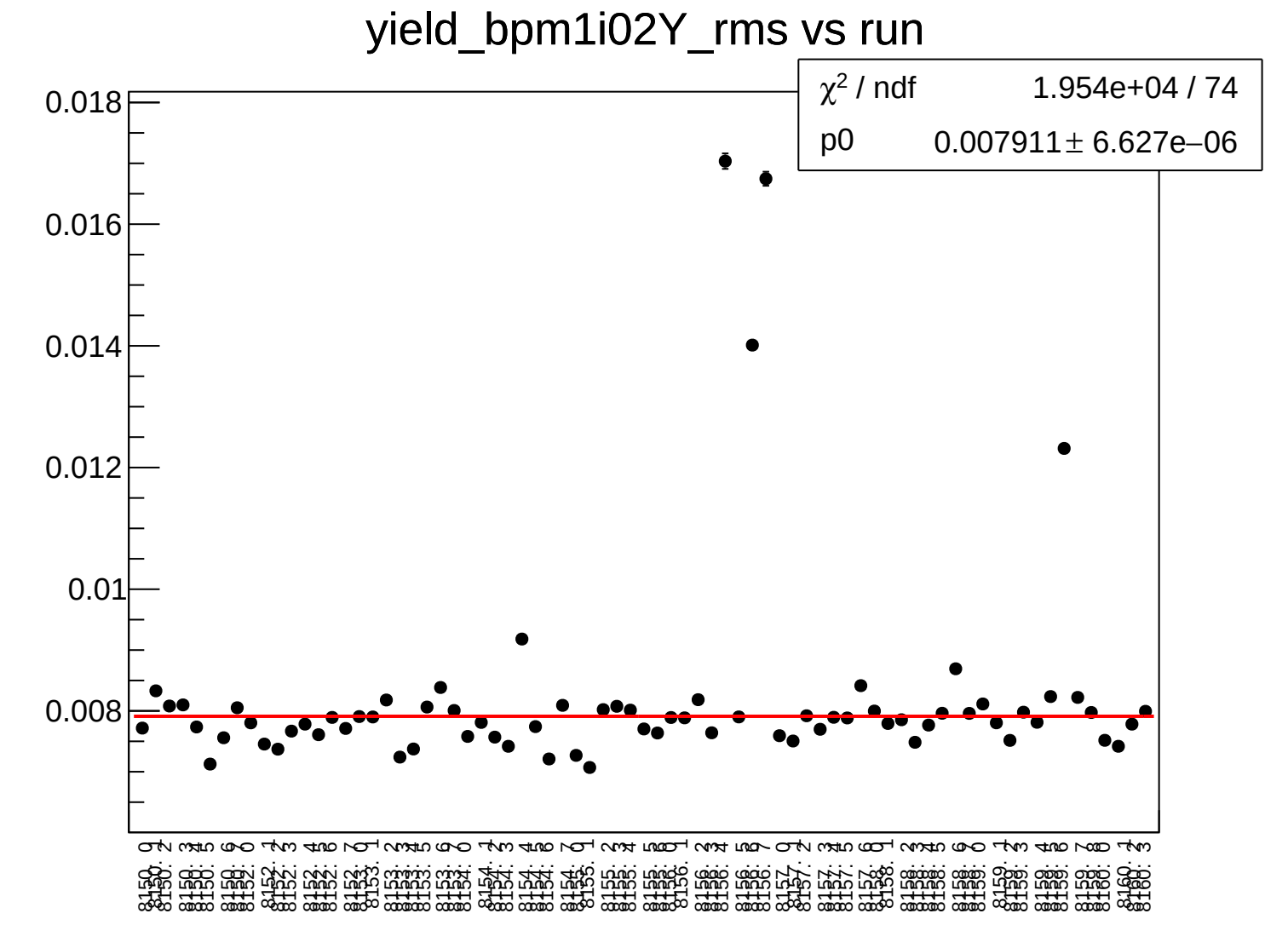

yield_bpm1i02X_mean vs run
χ² / ndf 3.268e+05 / 74
p0 0.04768 ± 1.292e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03
pull
Entries 75
Mean −284.3
Std Dev 243.5
100
50
0
−50
−100

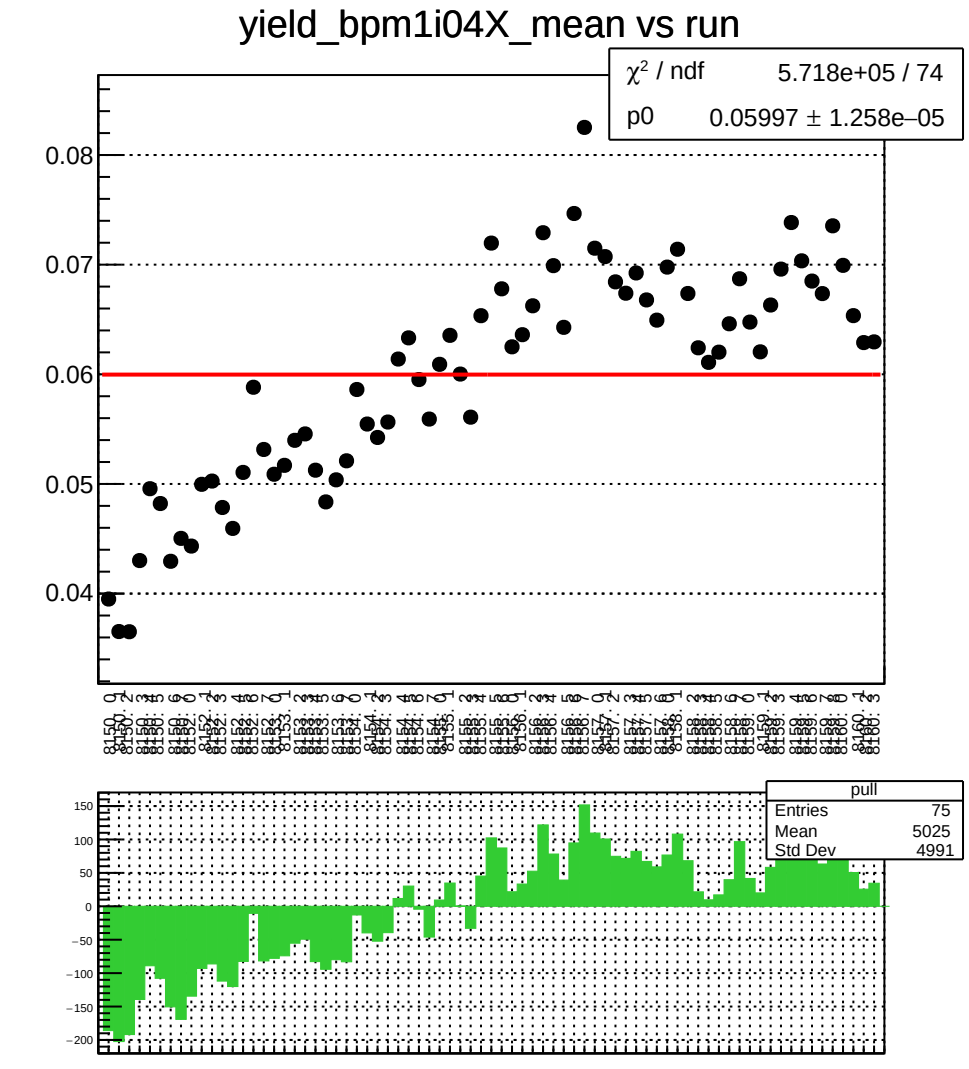

pull1D
Entries 75
Mean −1.424
Std Dev 5.791
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

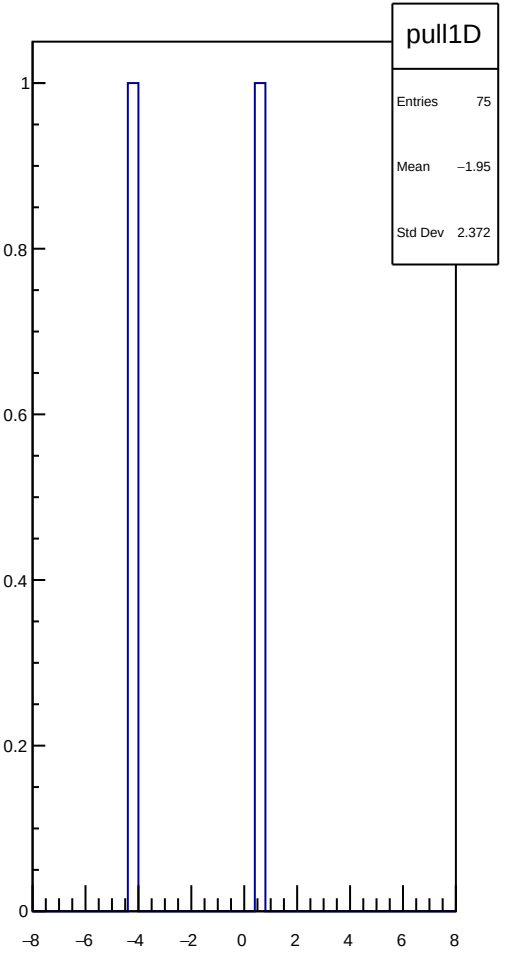

yield_bpm1i02X_rms vs run
χ² / ndf 1.679e+04 / 74
p0 0.01091 ± 9.134e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

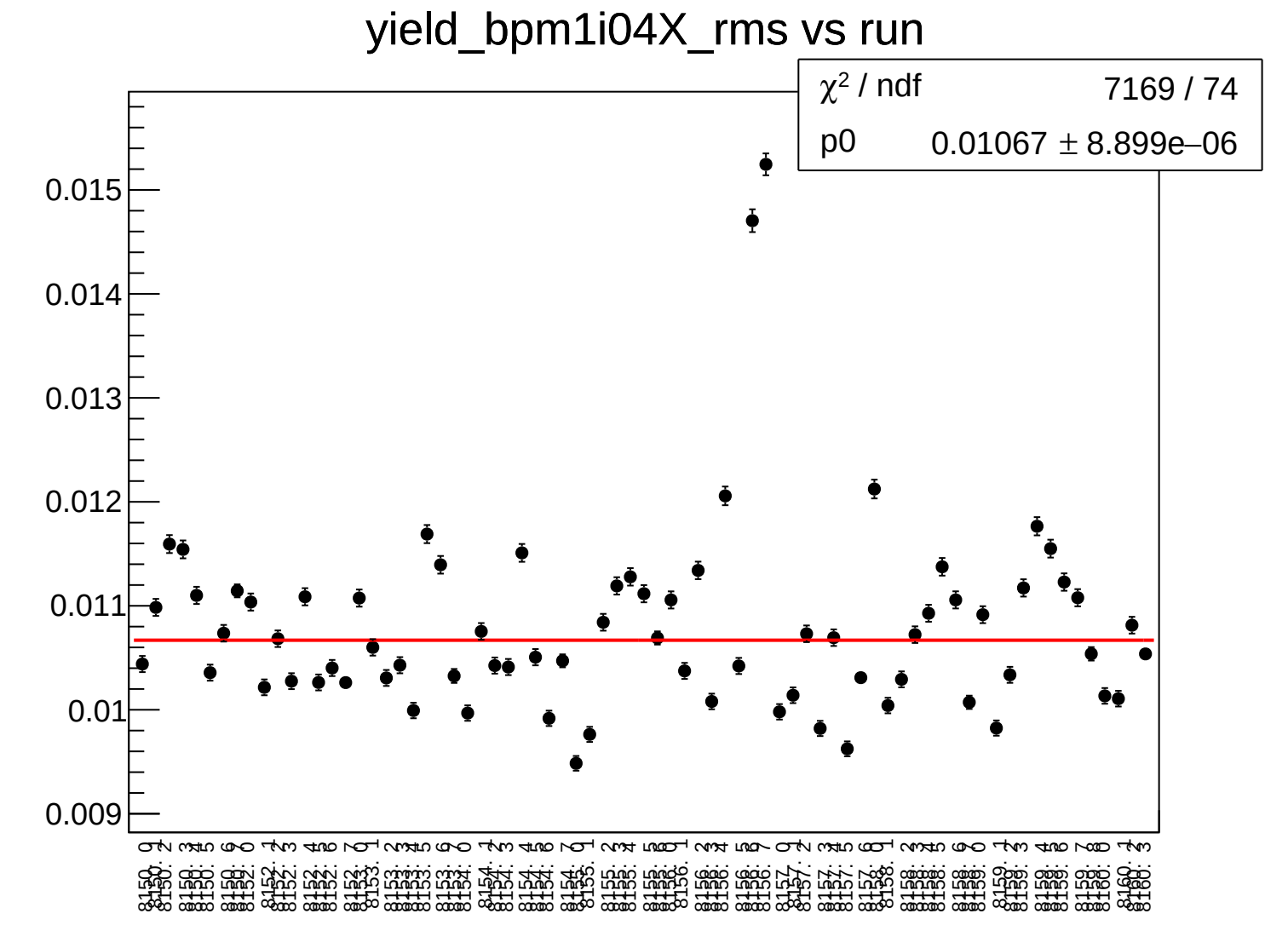

yield_bpm1i02Y_mean vs run
χ² / ndf 1.561e+06 / 74
p0 1.193 ± 9.372e−06
1.21
1.2
1.19
1.18
1.17
pull
Entries 75
Mean 609.7
Std Dev 543.8
300
200
100
0
−100
−200
−300

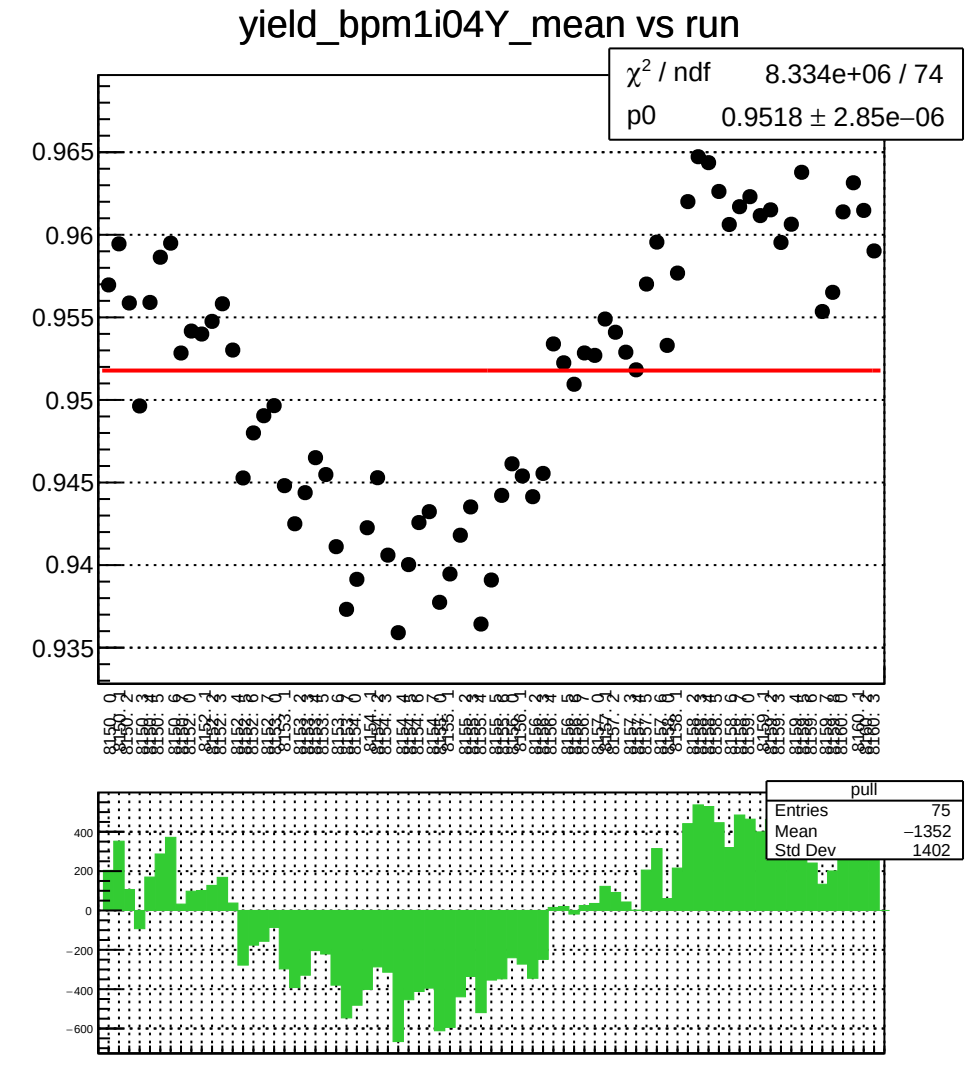

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

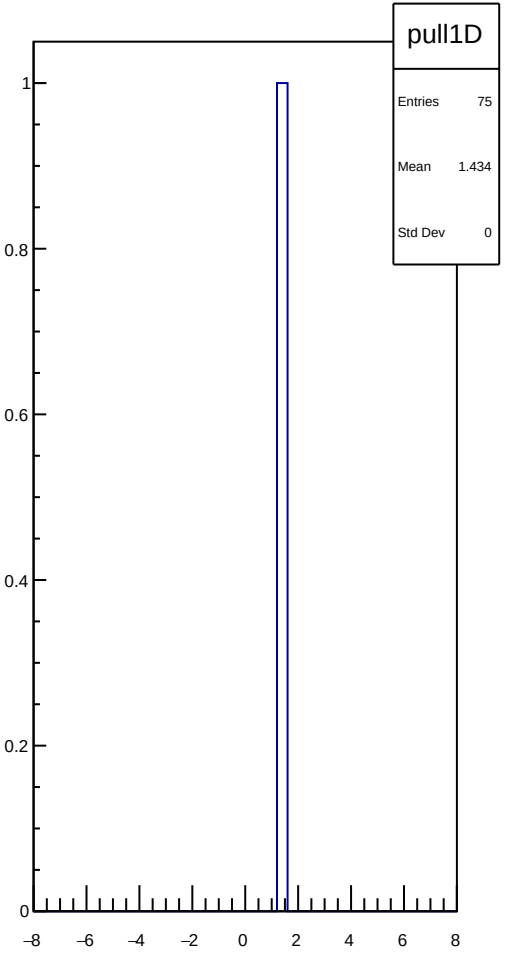

yield_bpm1i02Y_rms vs run
χ² / ndf 1.954e+04 / 74
p0 0.007911 ± 6.627e−06
0.018
0.016
0.014
0.012
0.01
0.008

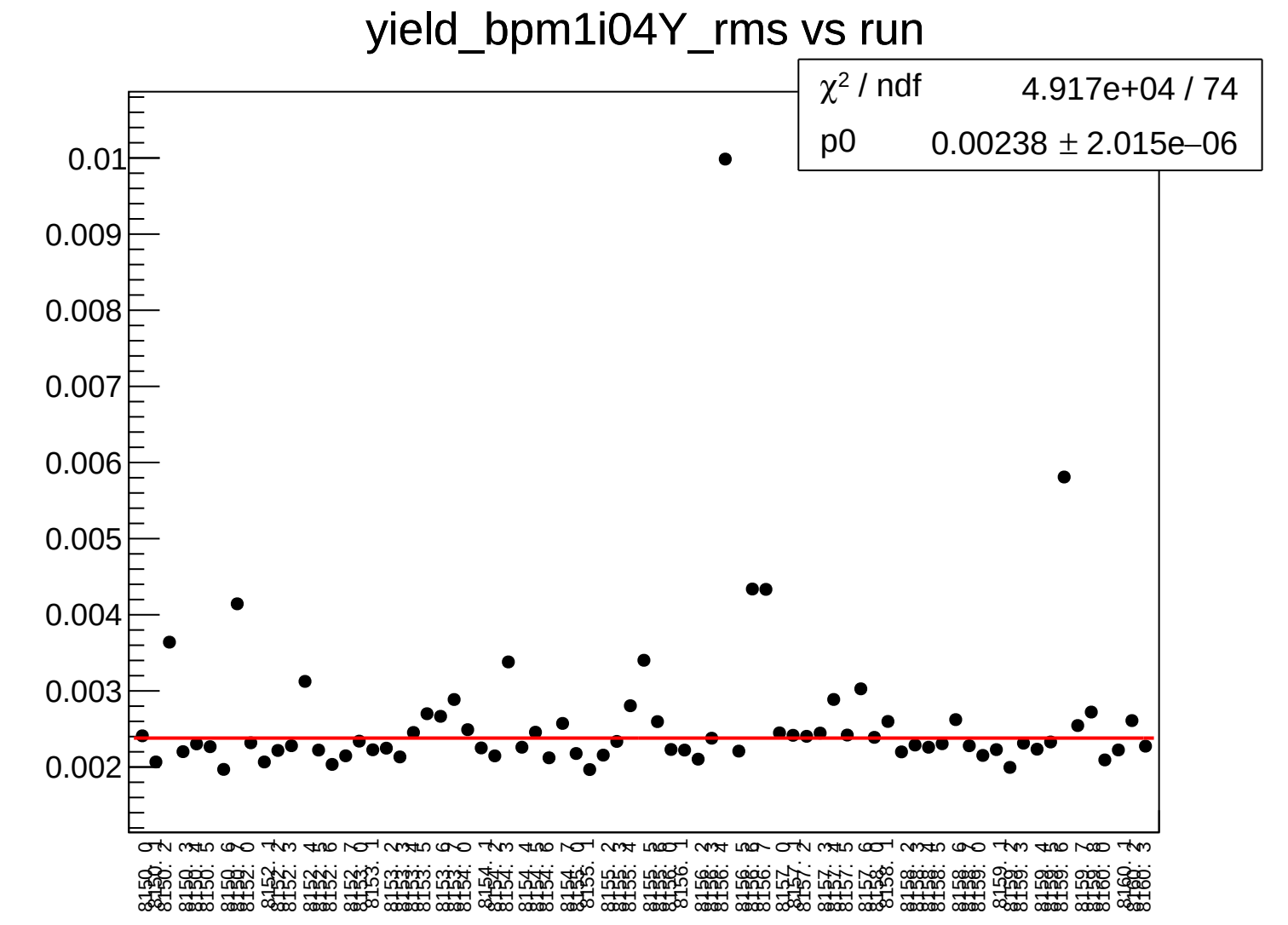

yield_bpm1i04X_mean vs run
χ² / ndf 5.718e+05 / 74
p0 0.05997 ± 1.258e−05
0.08
0.07
0.06
0.05
0.04
pull
Entries 75
Mean 5025
Std Dev 4991
150
100
50
0
−50
−100
−150
−200

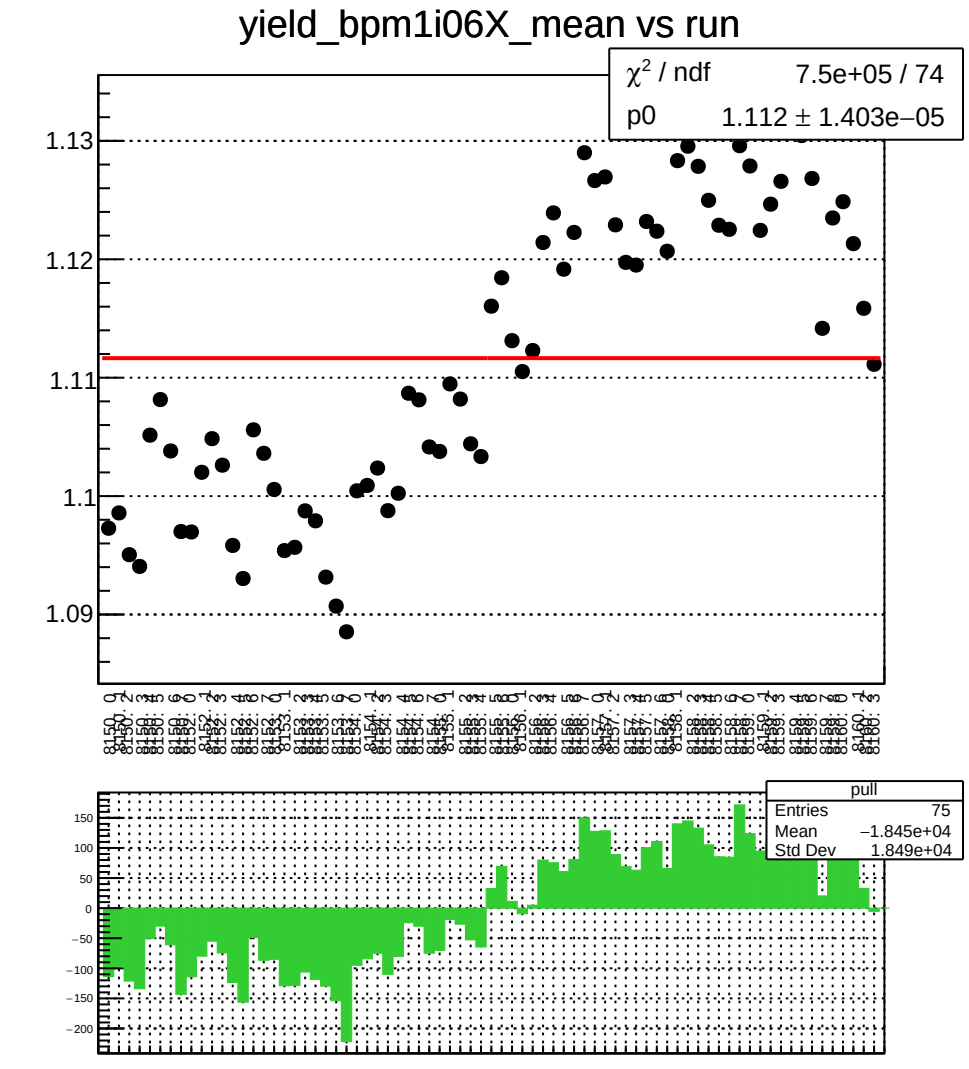

pull1D
Entries 75
Mean −1.95
Std Dev 2.372
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

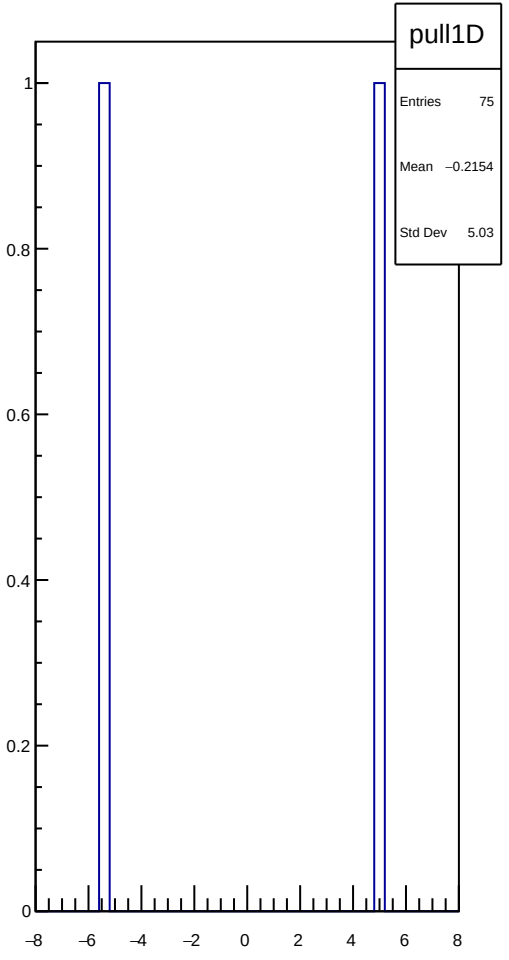

yield_bpm1i04X_rms vs run
χ² / ndf 7169 / 74
p0 0.01067 ± 8.899e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

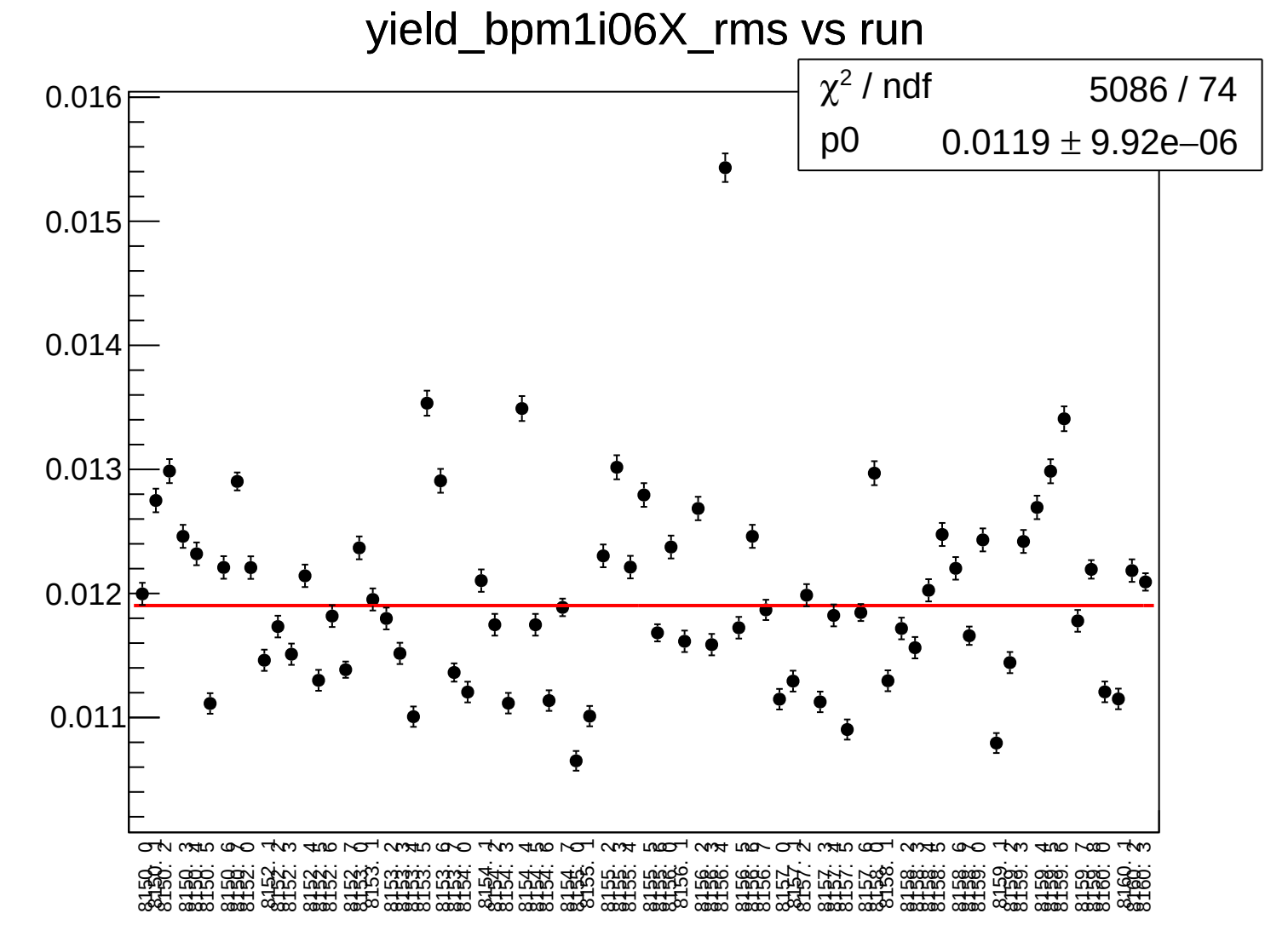

yield_bpm1i04Y_mean vs run
χ² / ndf 8.334e+06 / 74
p0 0.9518 ± 2.85e−06
0.965
0.96
0.955
0.95
0.945
0.94
0.935
pull
Entries 75
Mean −1352
Std Dev 1402
400
200
0
−200
−400
−600

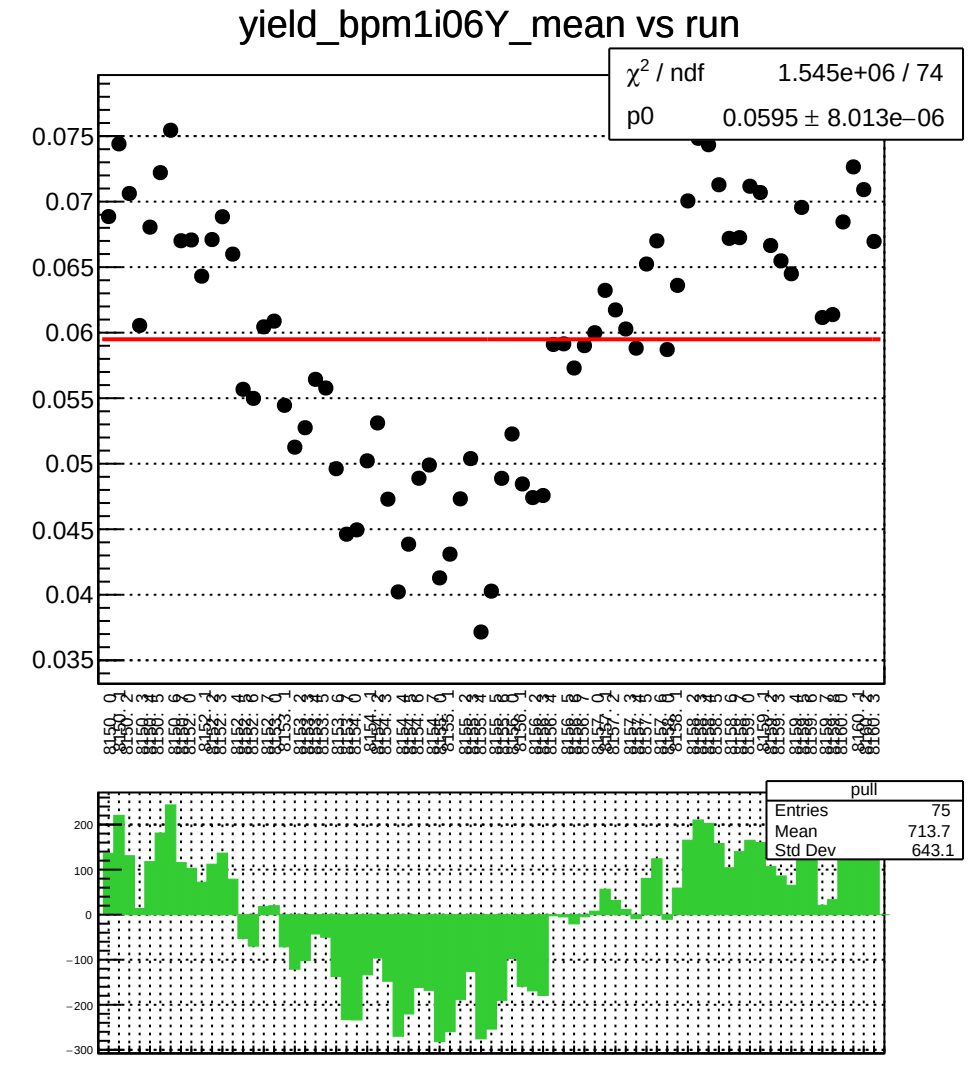

pull1D
Entries 75
Mean 1.434
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

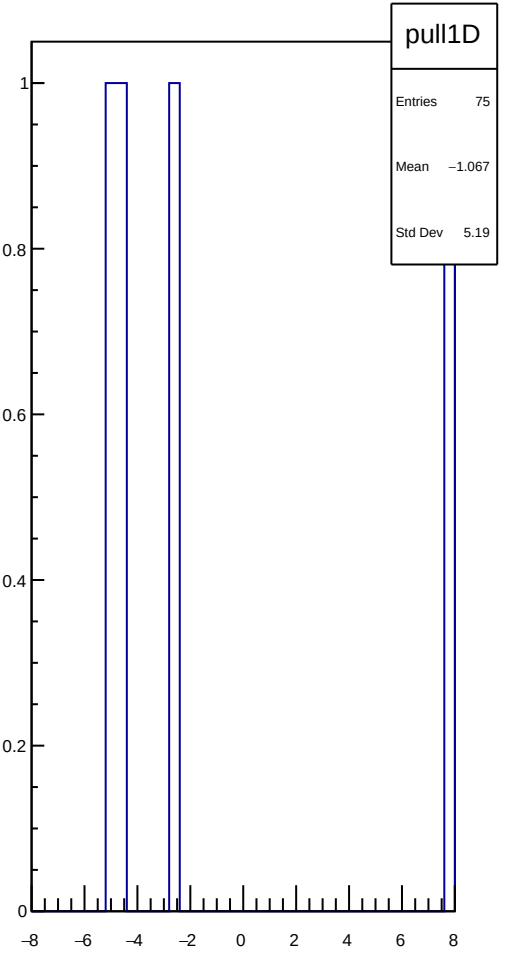

yield_bpm1i04Y_rms vs run
χ² / ndf 4.917e+04 / 74
p0 0.00238 ± 2.015e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

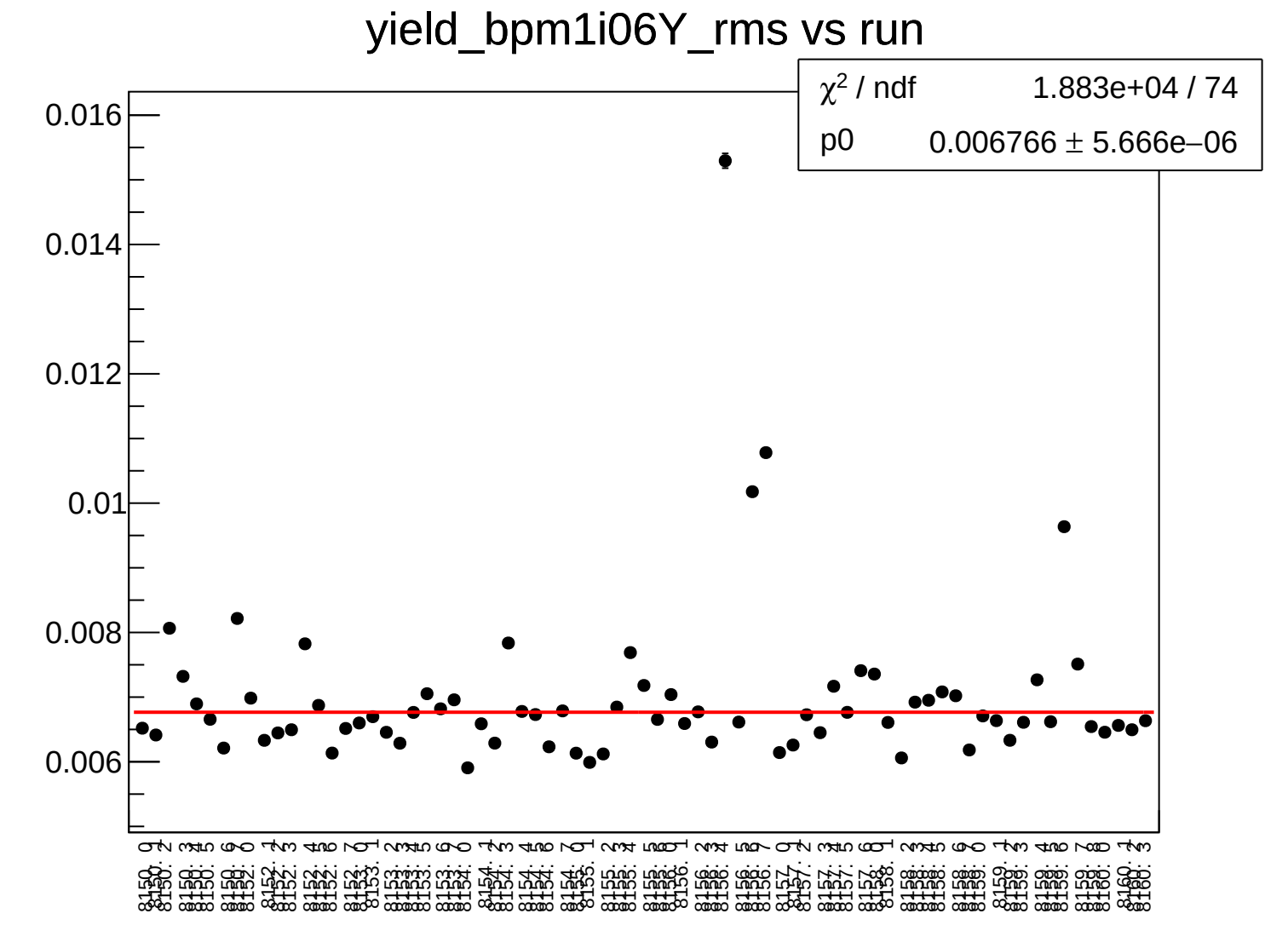

yield_bpm1i06X_mean vs run
χ² / ndf 7.5e+05 / 74
p0 1.112 ± 1.403e−05
1.13
1.12
1.11
1.1
1.09
pull
Entries 75
Mean −1.845e+04
Std Dev 1.849e+04
150
100
50
0
−50
−100
−150
−200

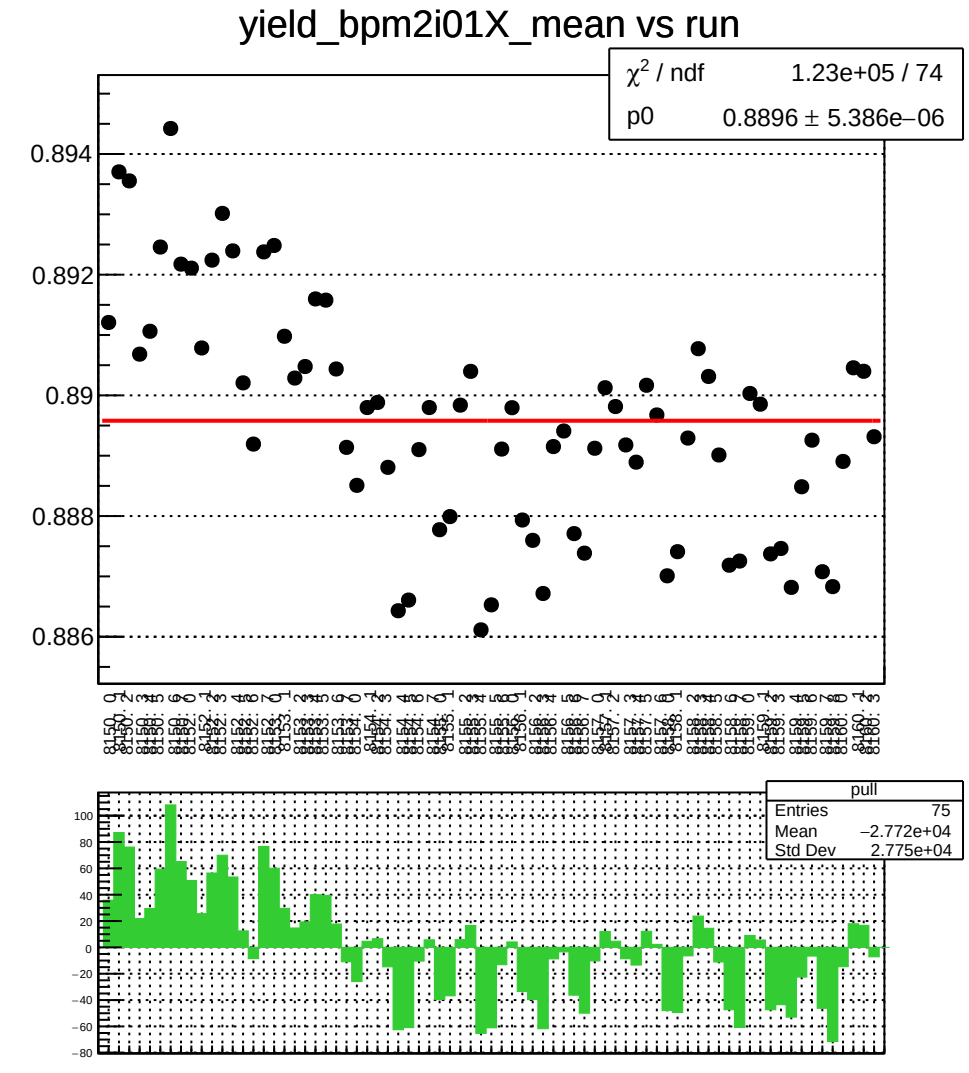

pull1D
Entries 75
Mean −0.2154
Std Dev 5.03
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

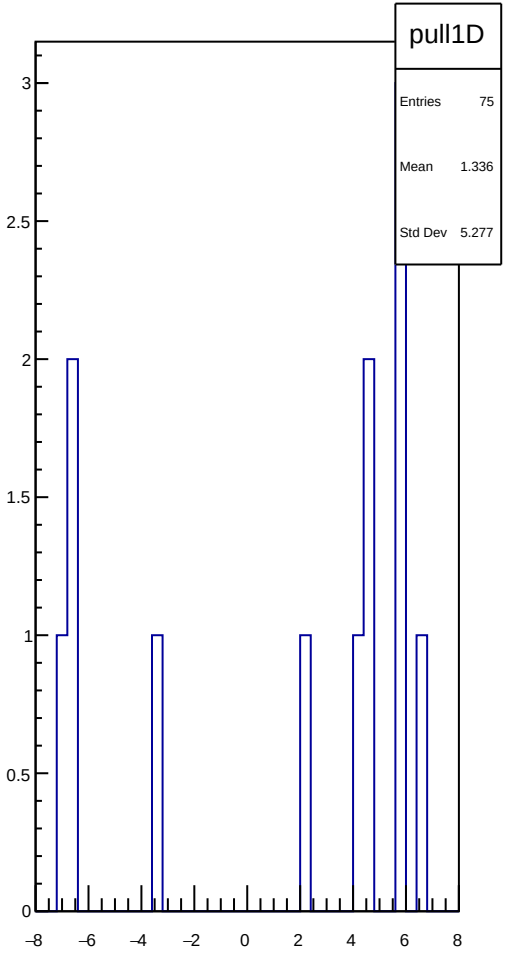

yield_bpm1i06X_rms vs run
χ^2 / ndf 5086 / 74
p0 0.0119 ± 9.92e−06
0.016
0.015
0.014
0.013
0.012
0.011

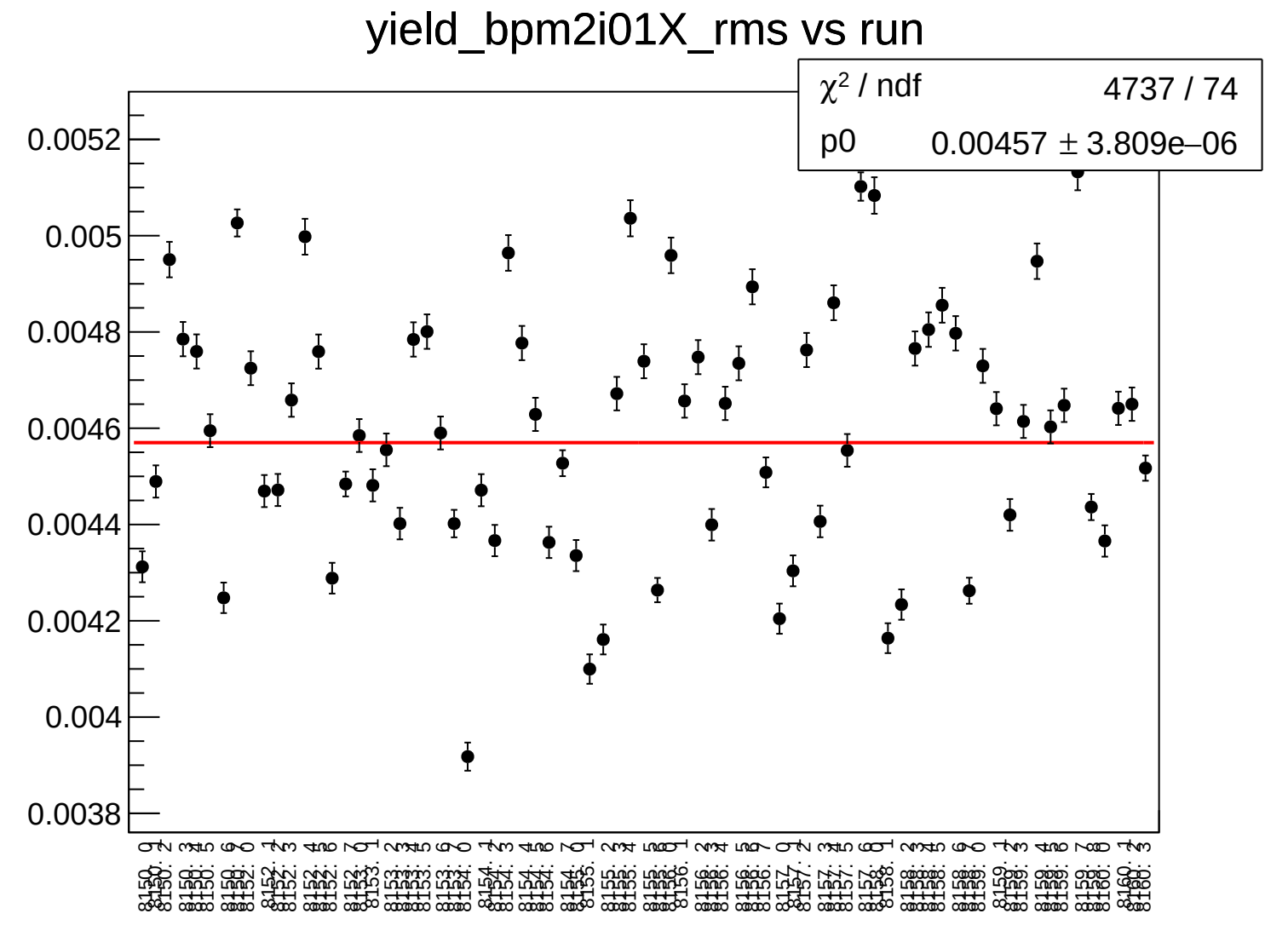

yield_bpm1i06Y_mean vs run
χ² / ndf 1.545e+06 / 74
p0 0.0595 ± 8.013e−06
pull
Entries 75
Mean 713.7
Std Dev 643.1

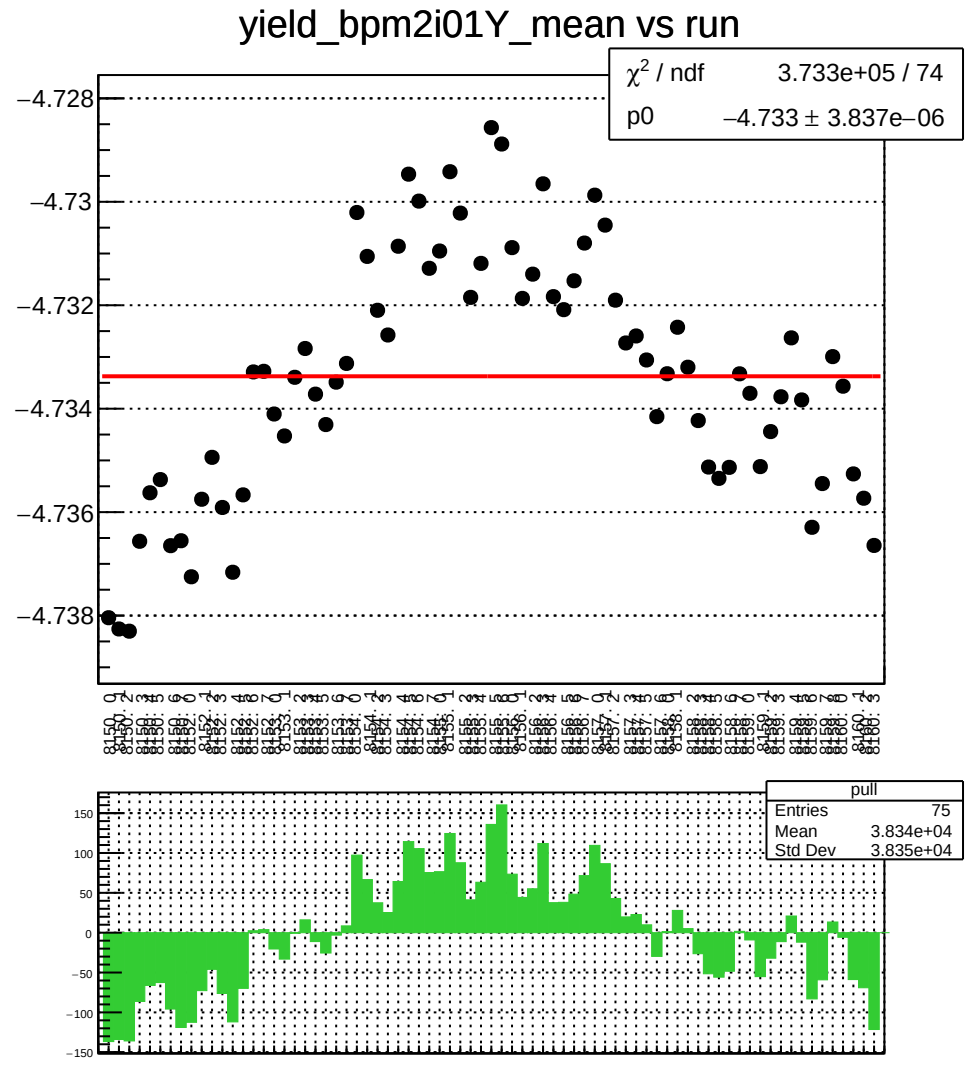

pull1D
Entries 75
Mean −1.067
Std Dev 5.19

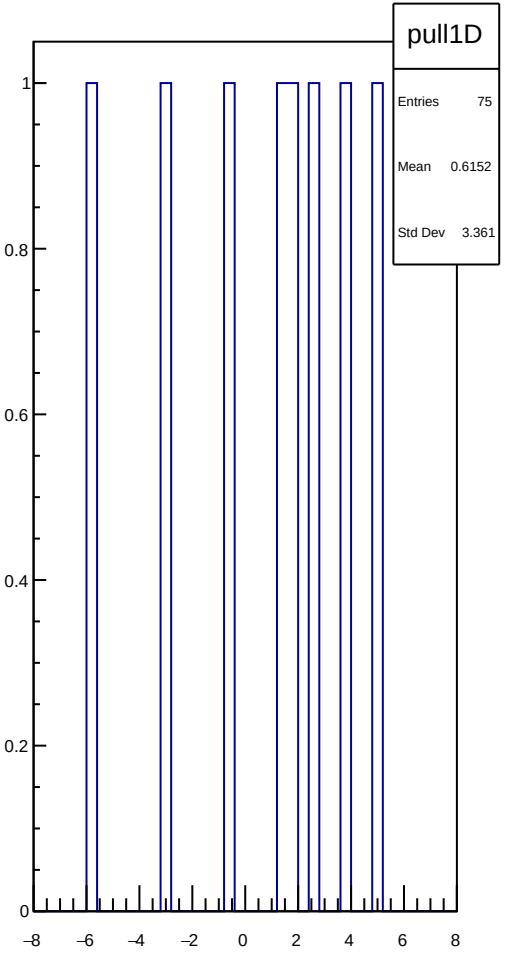

yield_bpm1i06Y_rms vs run
χ² / ndf 1.883e+04 / 74
p0 0.006766 ± 5.666e−06
0.016
0.014
0.012
0.01
0.008
0.006

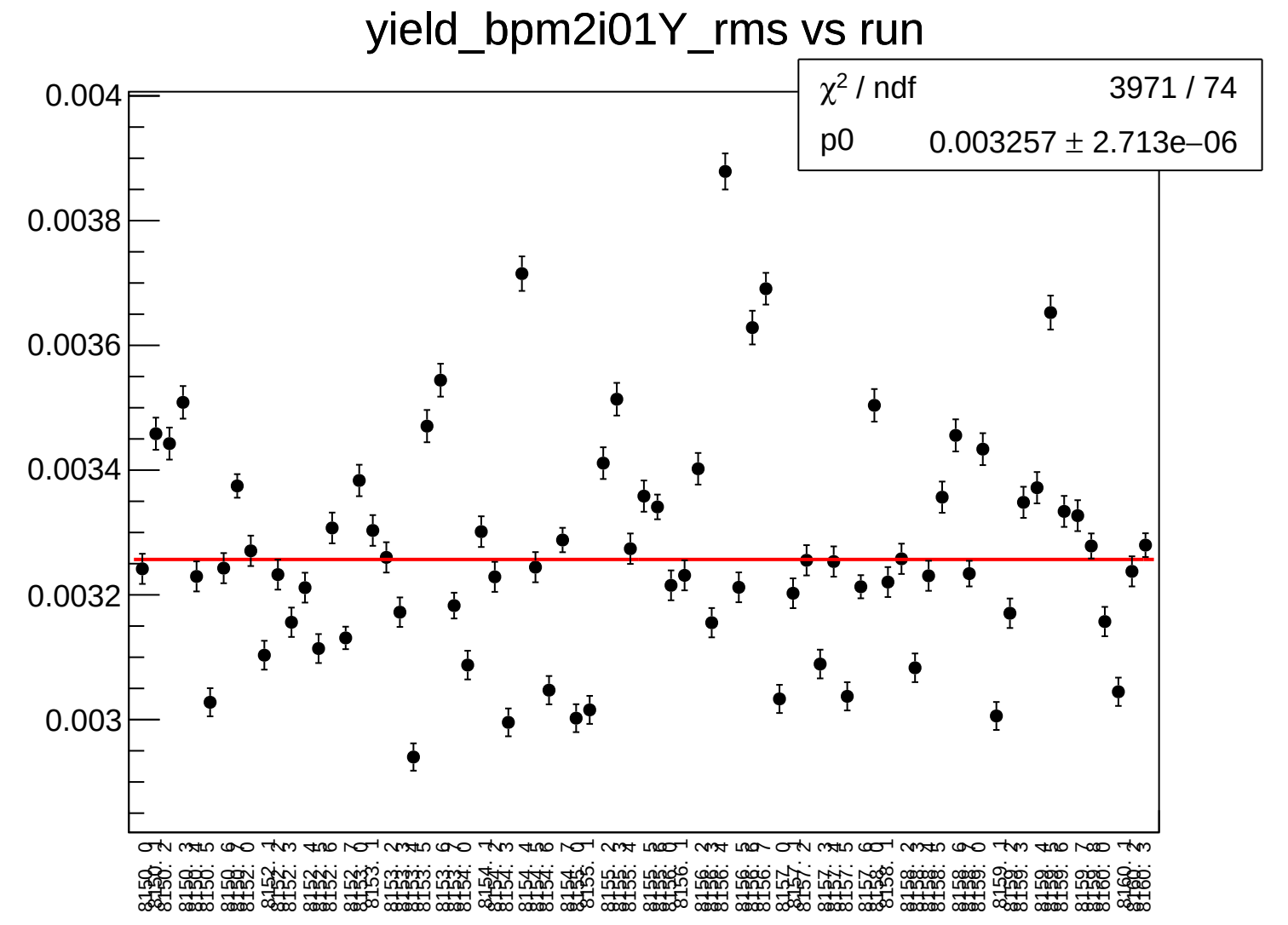

yield_bpm2i01X_mean vs run
χ² / ndf 1.23e+05 / 74
p0 0.8896 ± 5.386e−06
0.894
0.892
0.89
0.888
0.886
pull
Entries 75
Mean −2.772e+04
Std Dev 2.775e+04
100
80
60
40
20
0
−20
−40
−60
−80

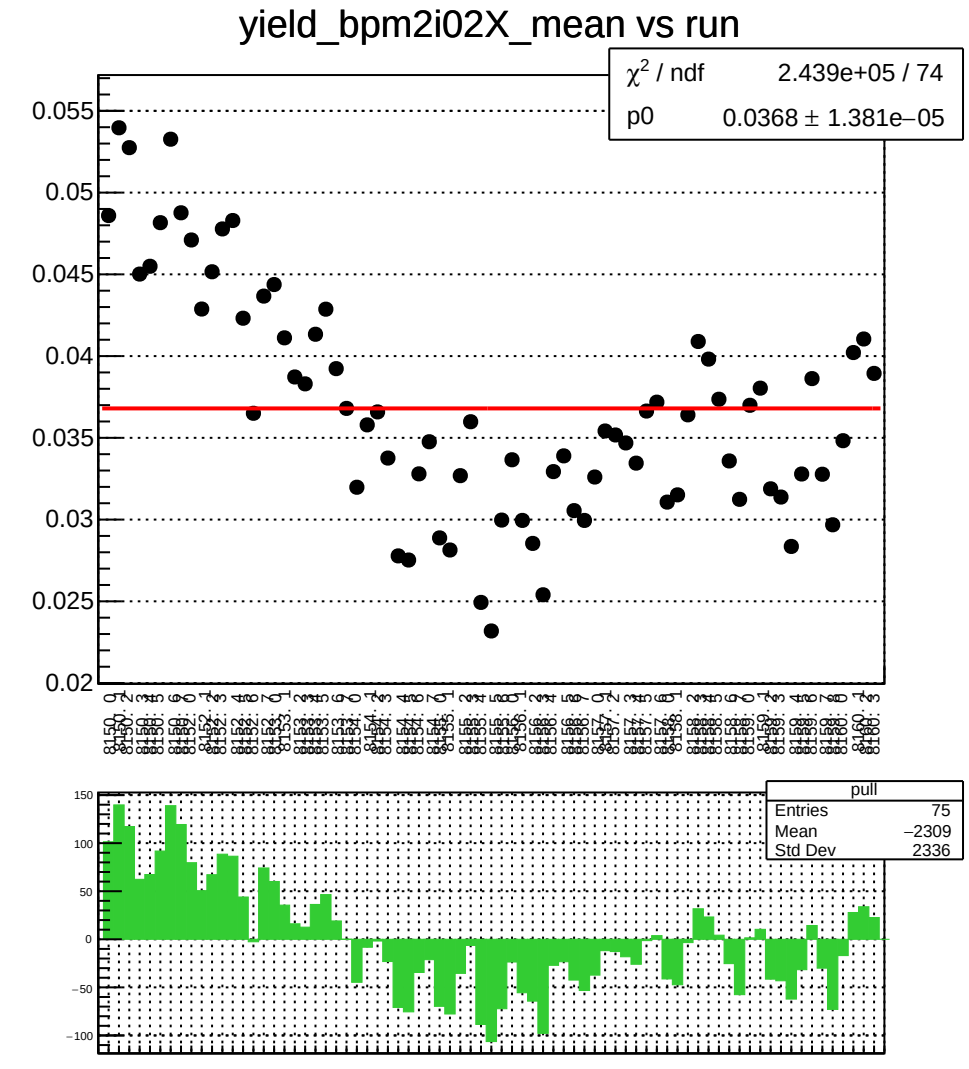

pull1D
Entries 75
Mean 1.336
Std Dev 5.277
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

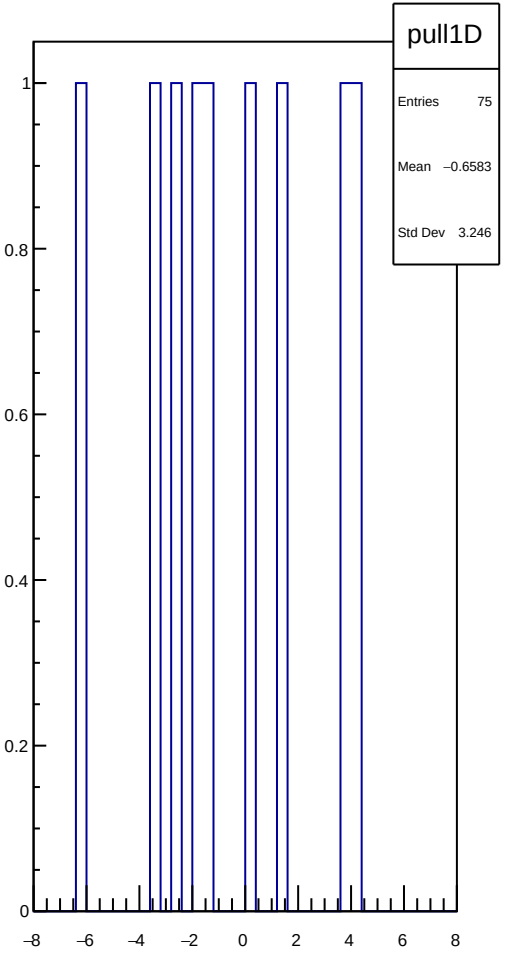

yield_bpm2i01X_rms vs run
χ² / ndf 4737 / 74
p0 0.00457 ± 3.809e–06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

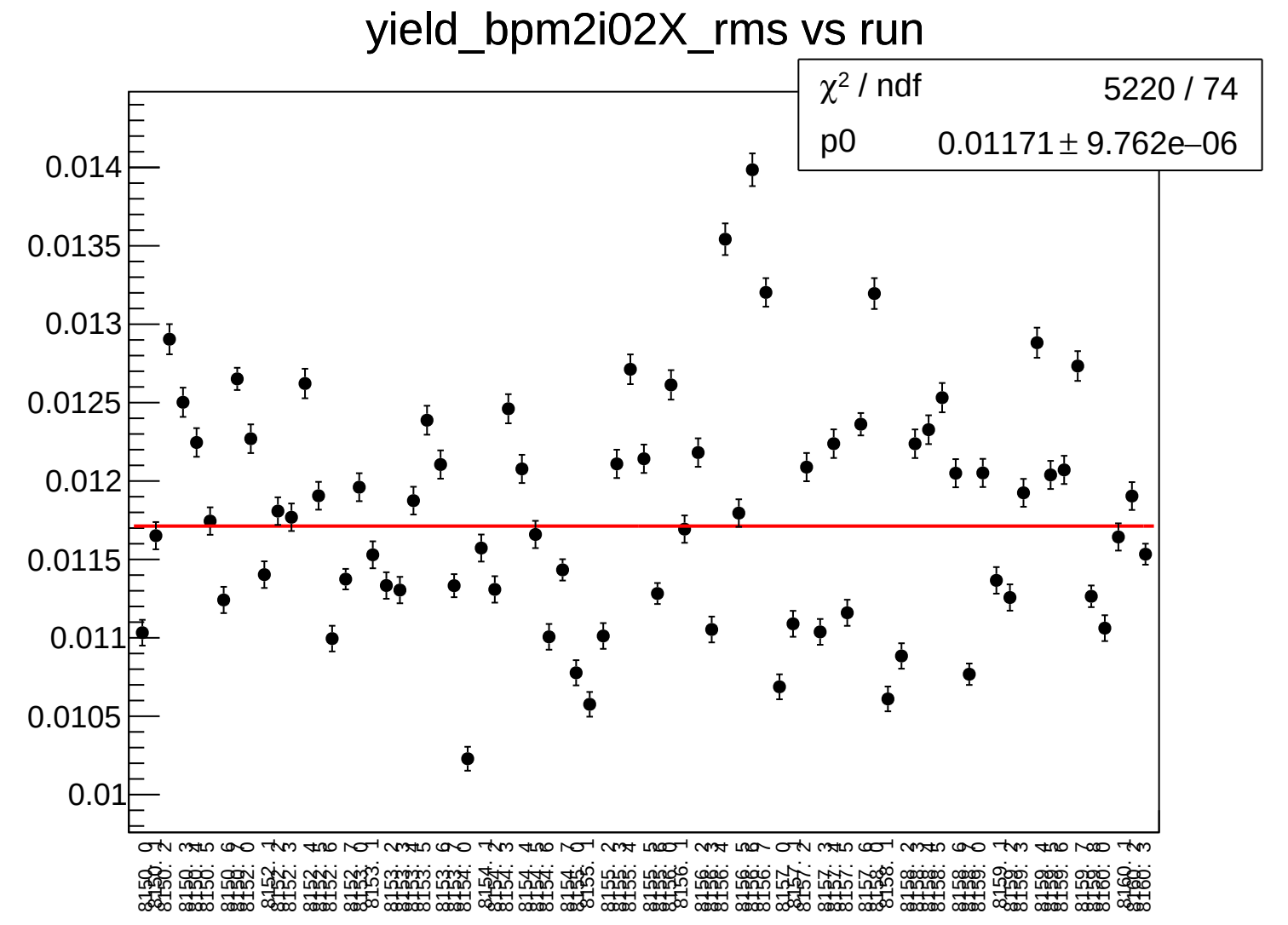

yield_bpm2i01Y_mean vs run
χ² / ndf 3.733e+05 / 74
p0 −4.733 ± 3.837e−06
−4.728
−4.73
−4.732
−4.734
−4.736
−4.738
pull
Entries 75
Mean 3.834e+04
Std Dev 3.835e+04
150
100
50
0
−50
−100
−150

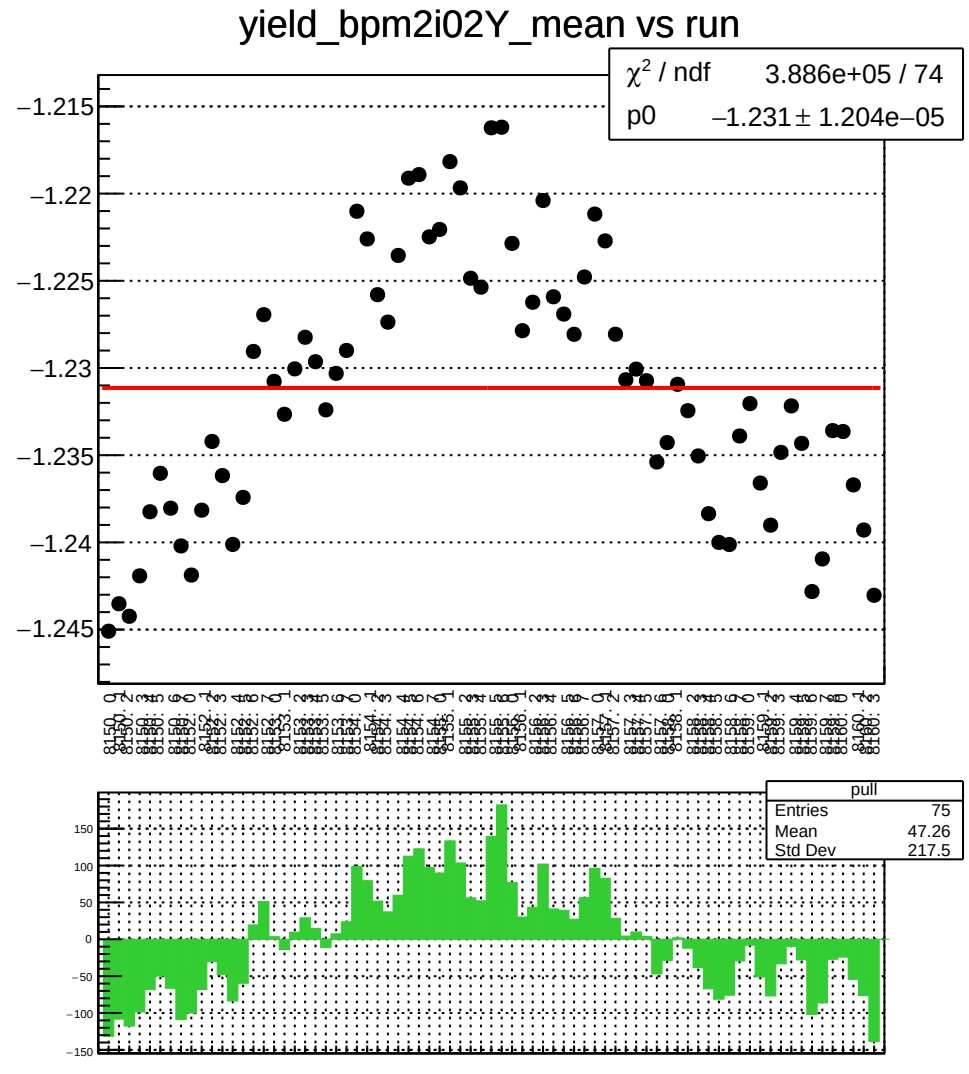

pull1D
Entries 75
Mean 0.6152
Std Dev 3.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

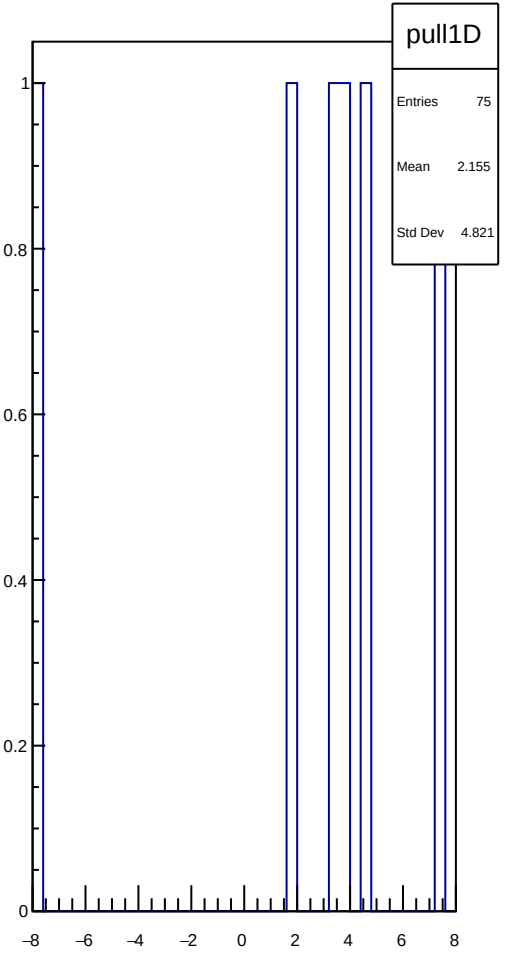

yield_bpm2i01Y_rms vs run
χ² / ndf 3971 / 74
p0 0.003257 ± 2.713e−06
0.004
0.0038
0.0036
0.0034
0.0032
0.003

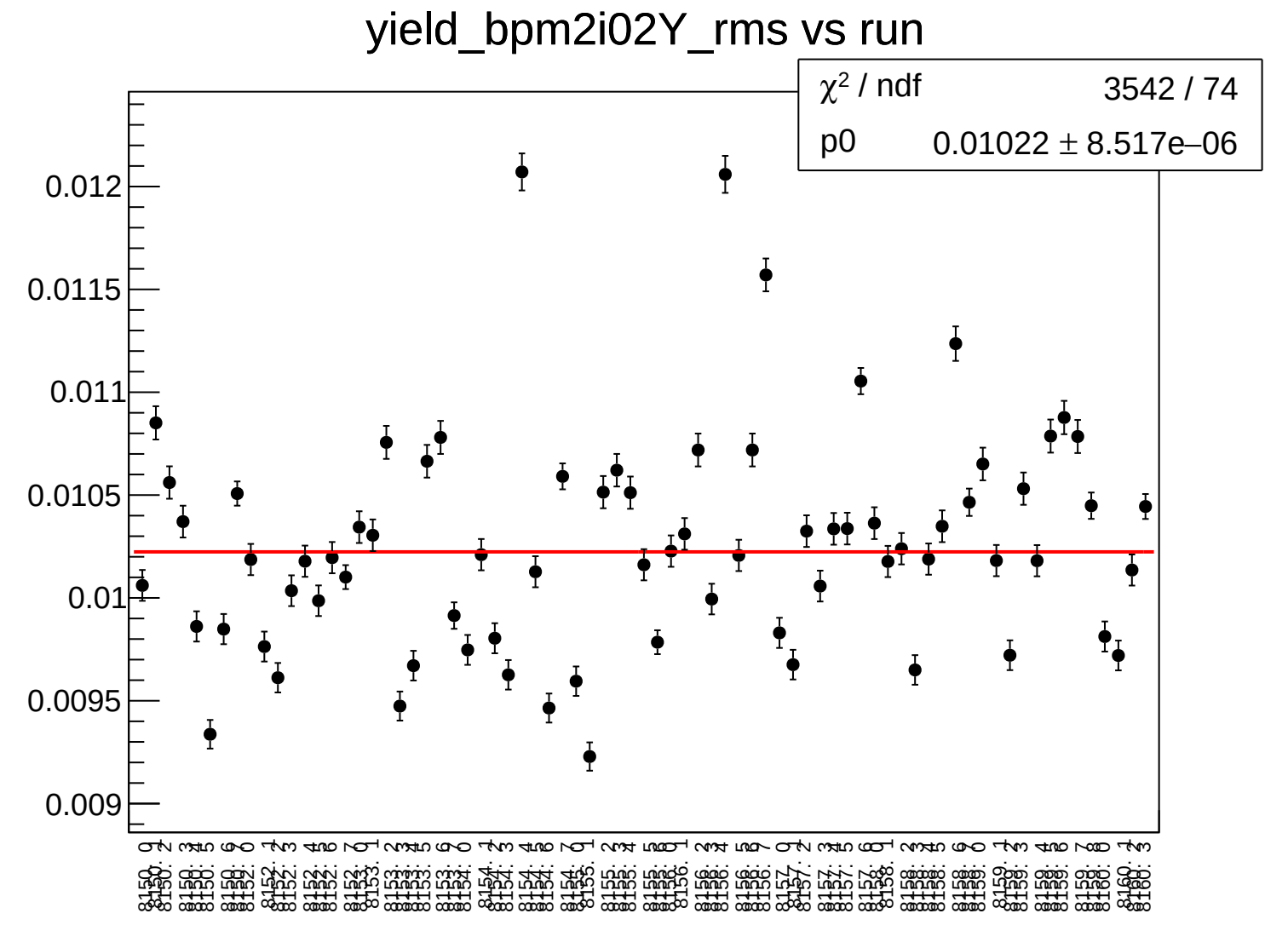

yield_bpm2i02X_mean vs run
χ² / ndf 2.439e+05 / 74
p0 0.0368 ± 1.381e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
pull
Entries 75
Mean −2309
Std Dev 2336
150
100
50
0
−50
−100

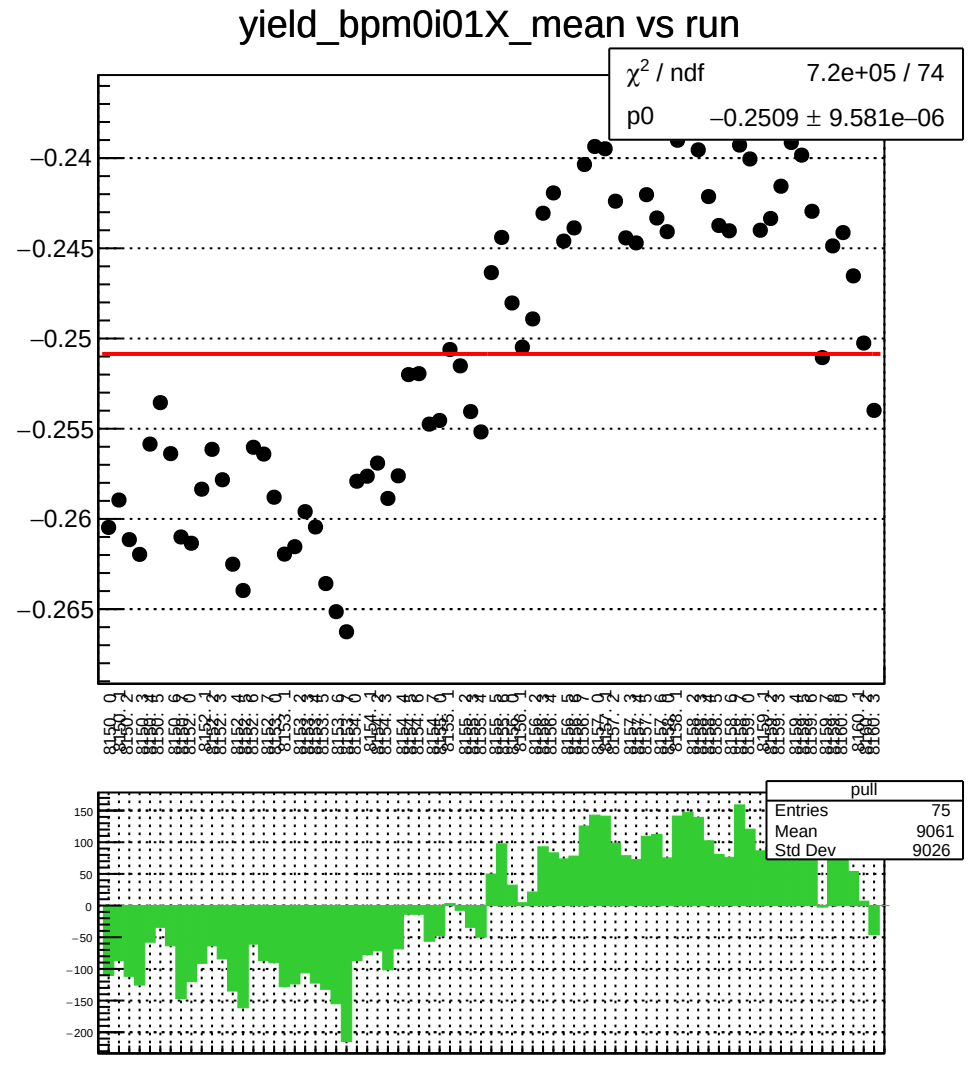

pull1D
Entries 75
Mean −0.6583
Std Dev 3.246
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

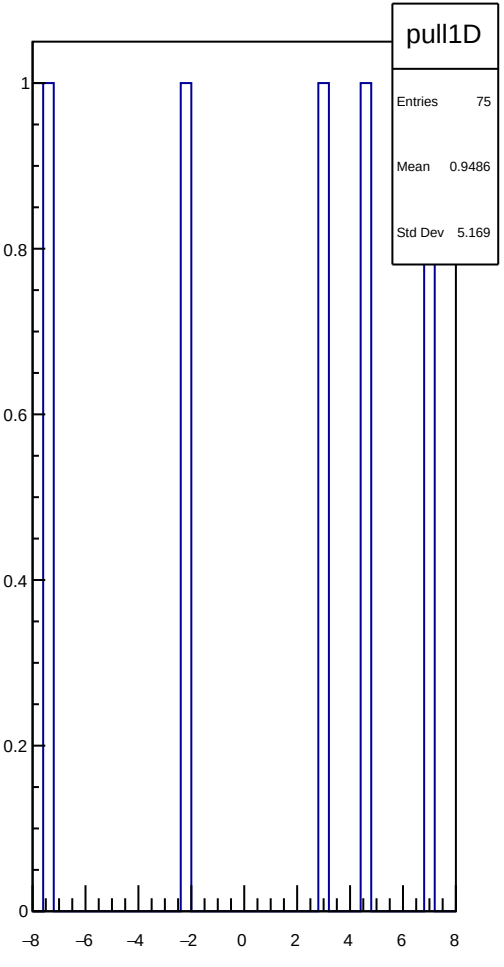

yield_bpm2i02X_rms vs run
χ² / ndf 5220 / 74
p0 0.01171 ± 9.762e–06
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

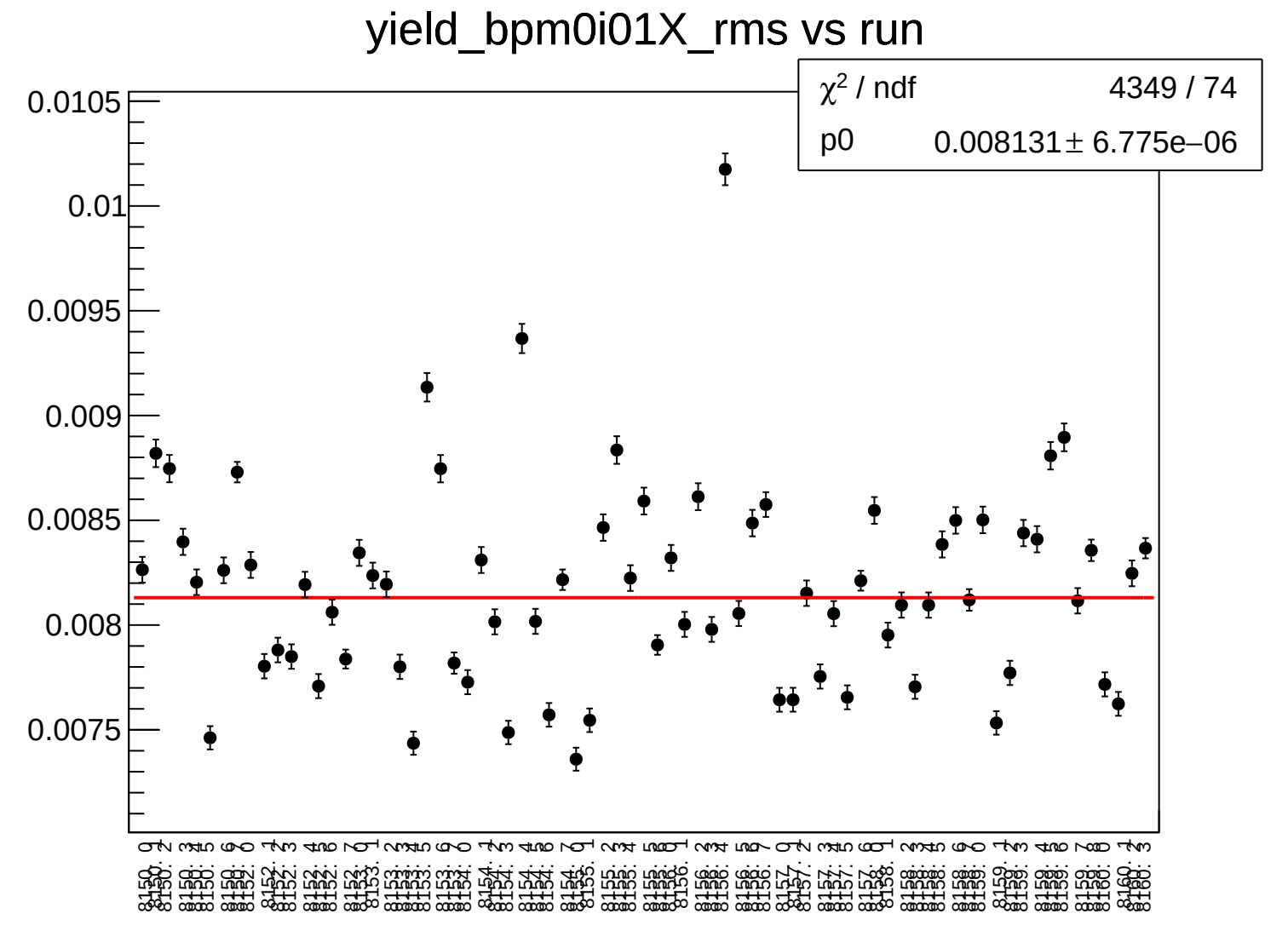

yield_bpm2i02Y_mean vs run
χ² / ndf 3.886e+05 / 74
p0 −1.231 ± 1.204e−05
−1.215
−1.22
−1.225
−1.23
−1.235
−1.24
−1.245
pull
Entries 75
Mean 47.26
Std Dev 217.5
150
100
50
0
−50
−100
−150

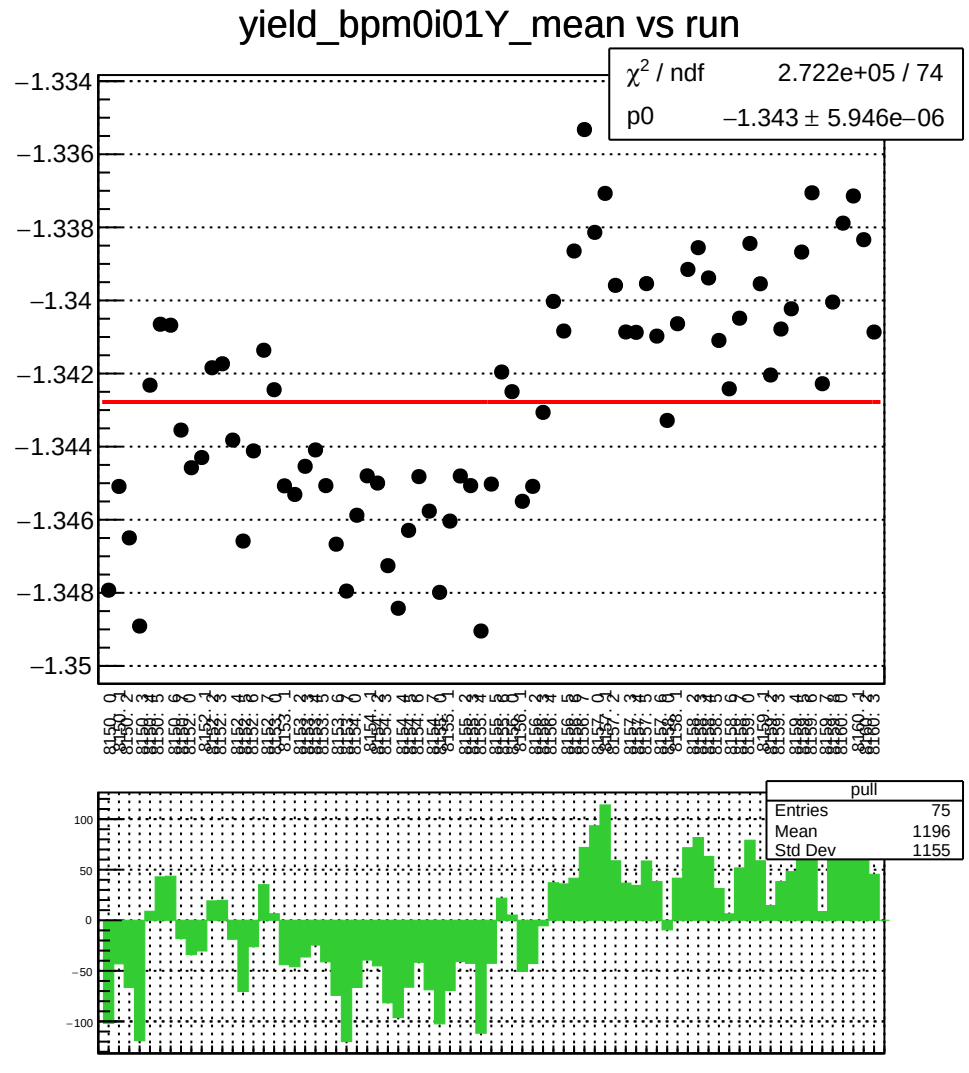

pull1D
Entries 75
Mean 2.155
Std Dev 4.821
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

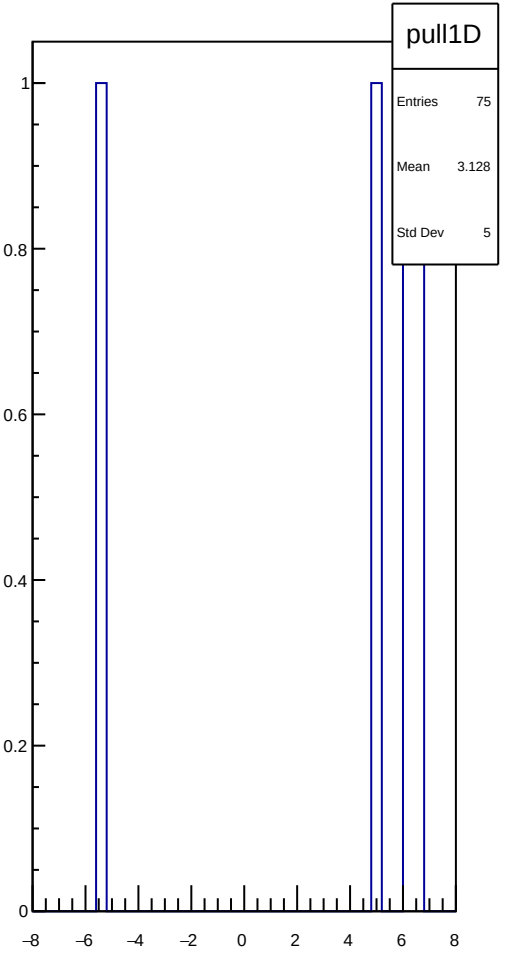

yield_bpm2i02Y_rms vs run
χ² / ndf 3542 / 74
p0 0.01022 ± 8.517e–06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

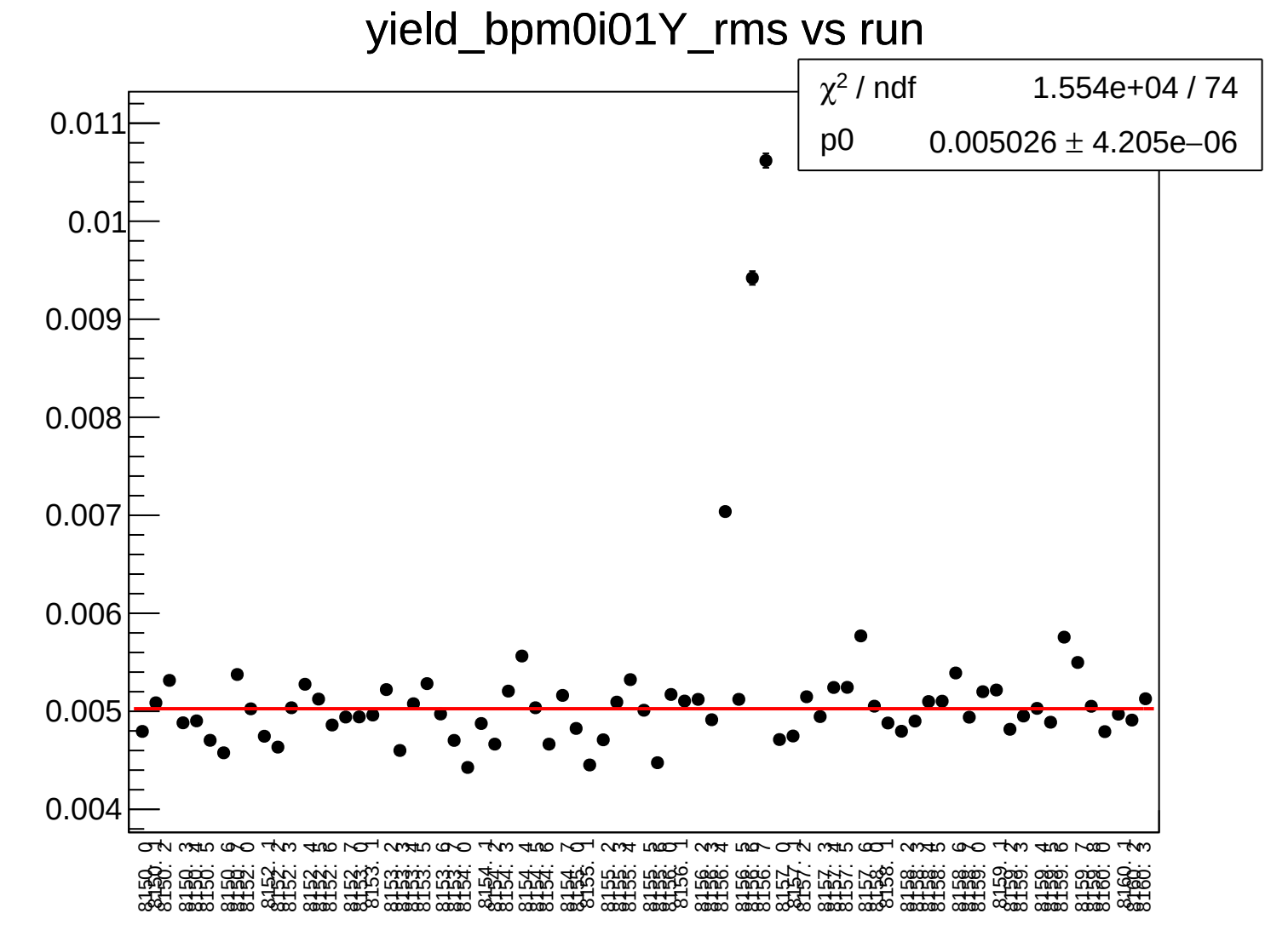

yield_bpm0i01X_mean vs run
χ² / ndf 7.2e+05 / 74
p0 −0.2509 ± 9.581e−06
−0.24
−0.245
−0.25
−0.255
−0.26
−0.265
pull
Entries 75
Mean 9061
Std Dev 9026
150
100
50
0
−50
−100
−150
−200

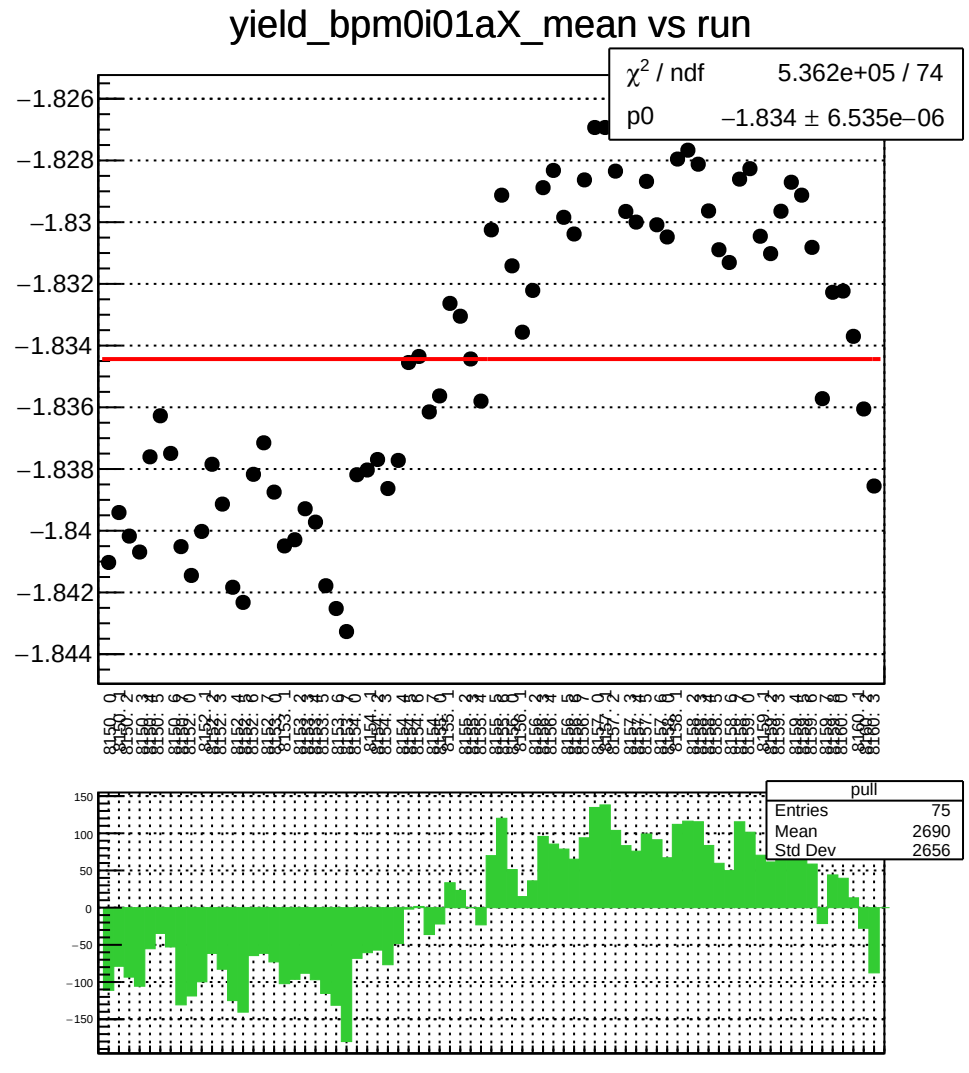

pull1D
Entries 75
Mean 0.9486
Std Dev 5.169
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

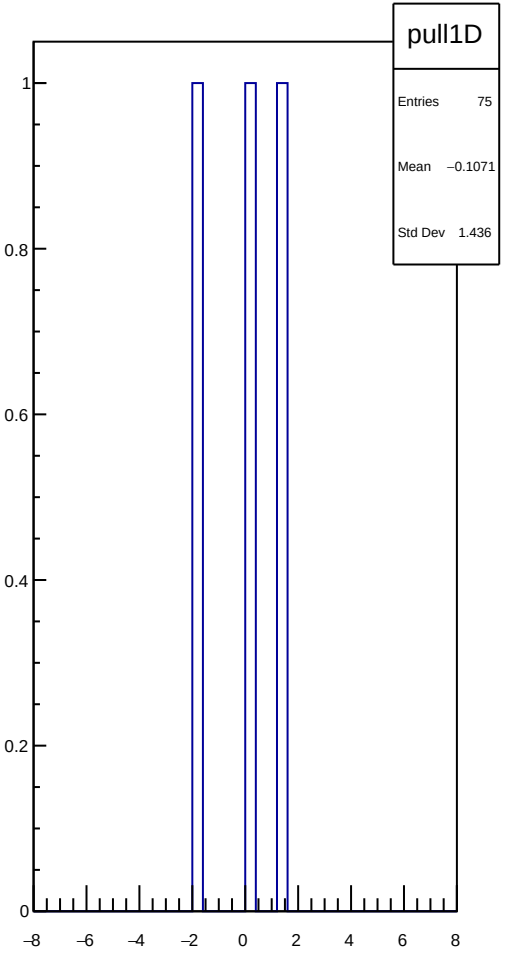

yield_bpm0i01X_rms vs run
χ² / ndf 4349 / 74
p0 0.008131 ± 6.775e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075

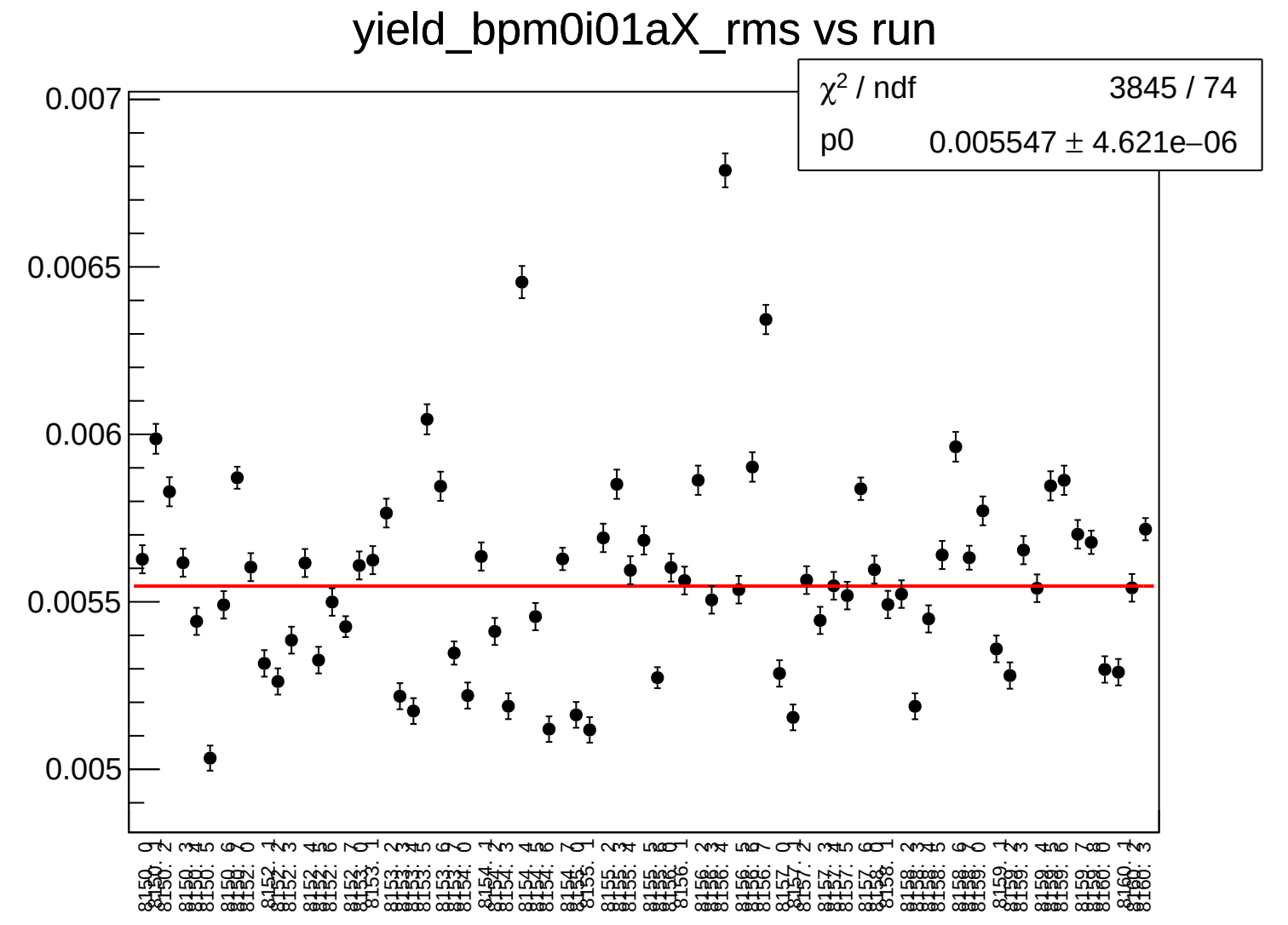

yield_bpm0i01Y_mean vs run
χ² / ndf 2.722e+05 / 74
p0 −1.343 ± 5.946e−06
−1.334
−1.336
−1.338
−1.34
−1.342
−1.344
−1.346
−1.348
−1.35
pull
Entries 75
Mean 1196
Std Dev 1155
100
50
0
−50
−100

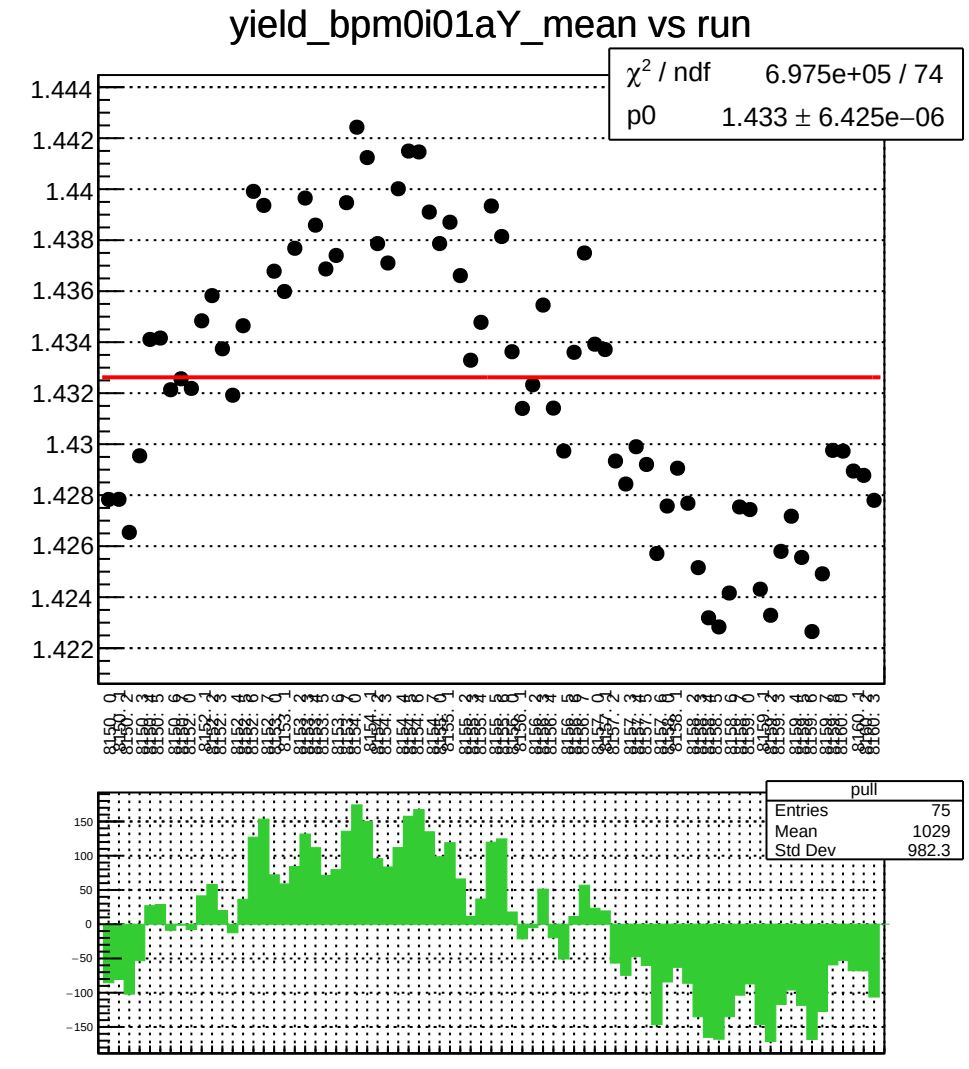

pull1D
Entries 75
Mean 3.128
Std Dev 5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

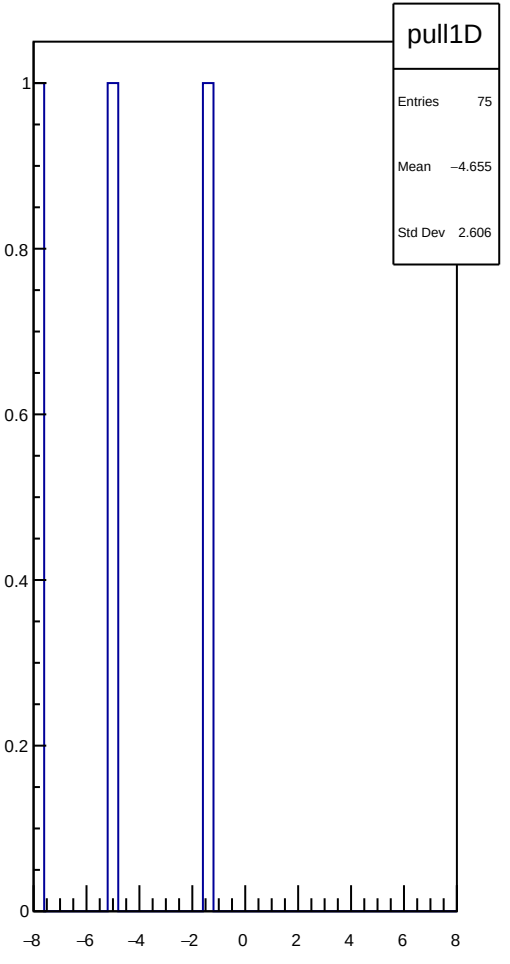

yield_bpm0i01Y_rms vs run
χ² / ndf 1.554e+04 / 74
p0 0.005026 ± 4.205e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

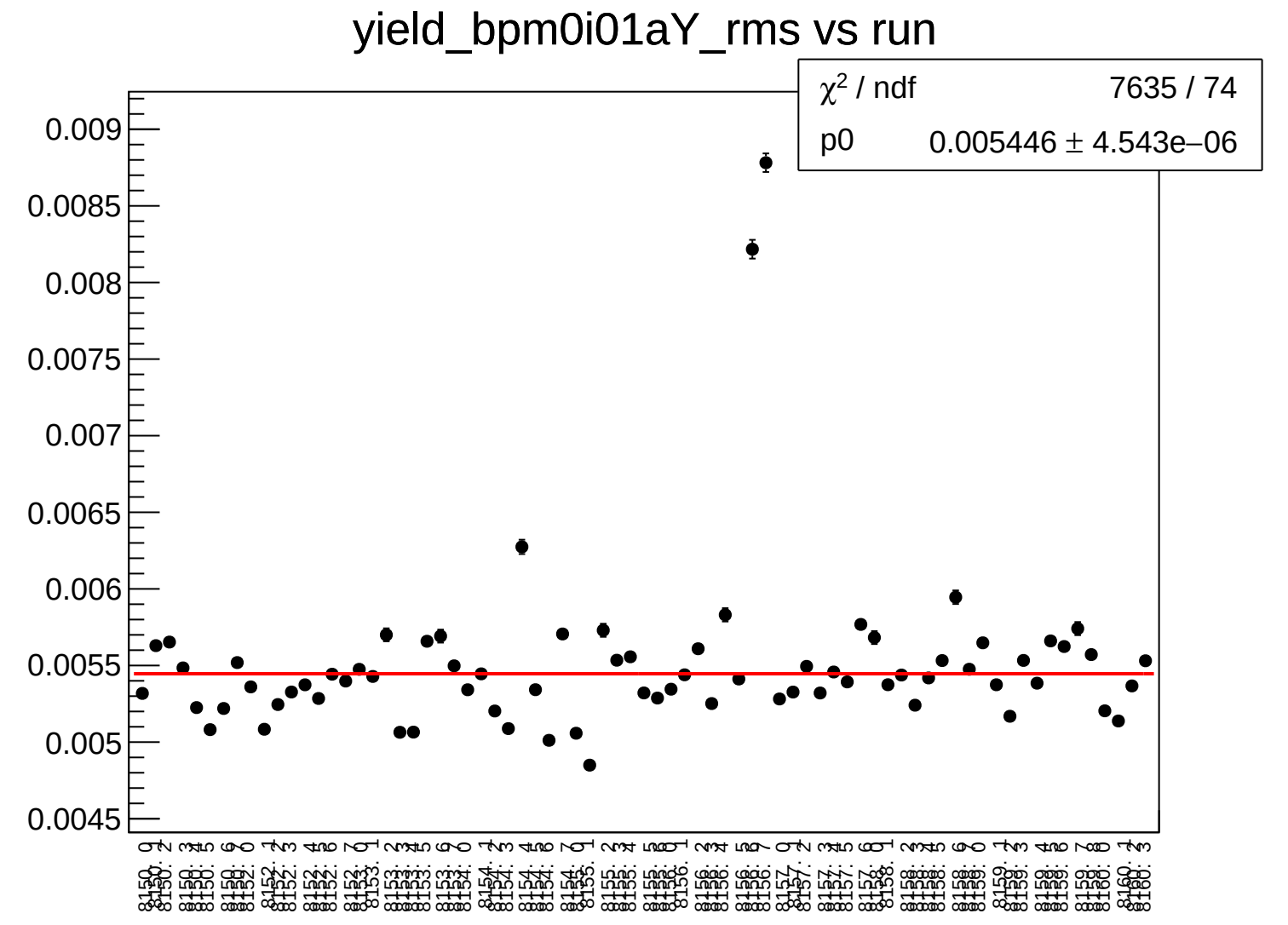

yield_bpm0i01aX_mean vs run
χ² / ndf 5.362e+05 / 74
p0 −1.834 ± 6.535e−06
−1.826
−1.828
−1.83
−1.832
−1.834
−1.836
−1.838
−1.84
−1.842
−1.844
pull
Entries 75
Mean 2690
Std Dev 2656
150
100
50
0
−50
−100
−150

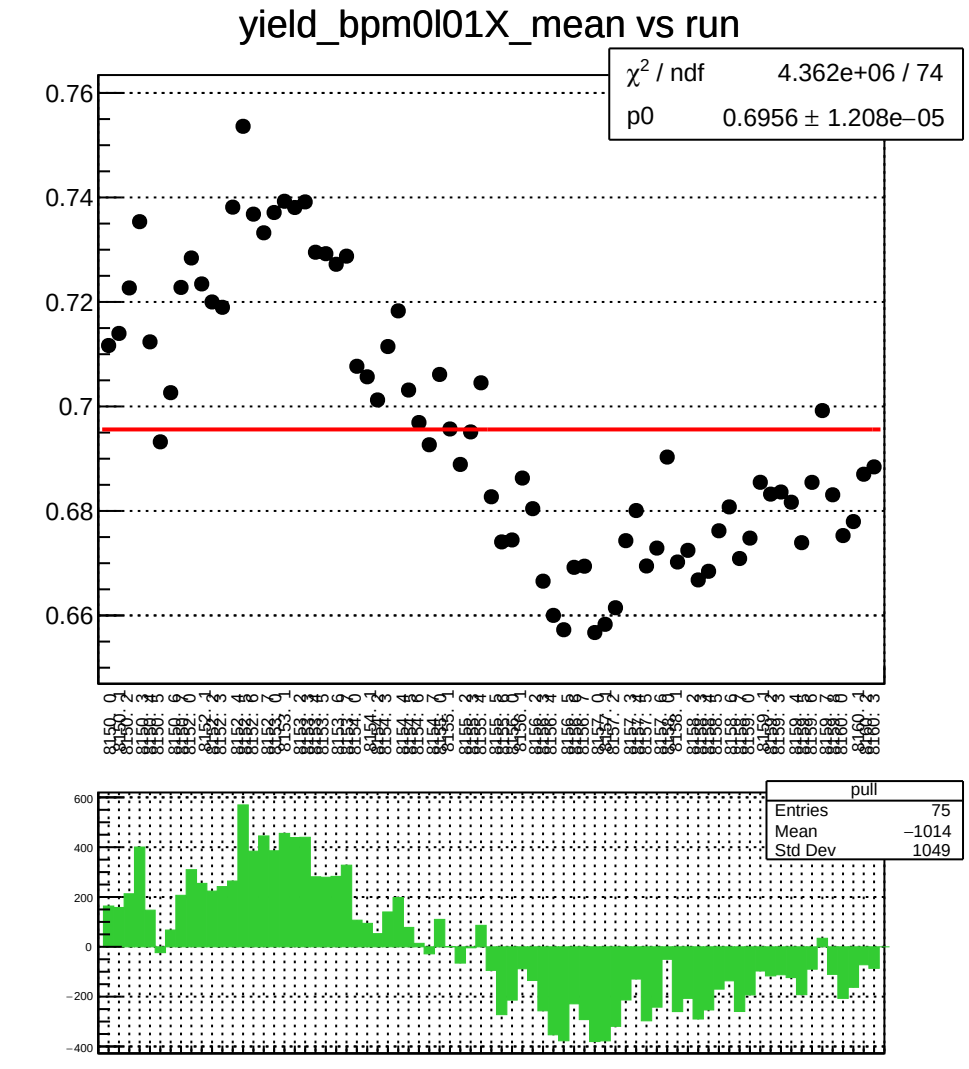

pull1D
Entries 75
Mean −0.1071
Std Dev 1.436
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

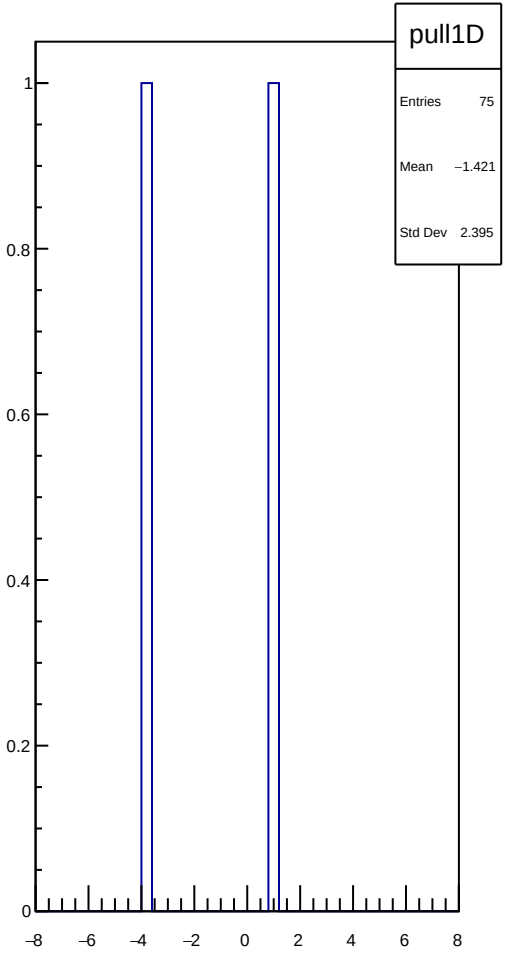

yield_bpm0i01aX_rms vs run
χ² / ndf 3845 / 74
p0 0.005547 ± 4.621e−06
0.007
0.0065
0.006
0.0055
0.005

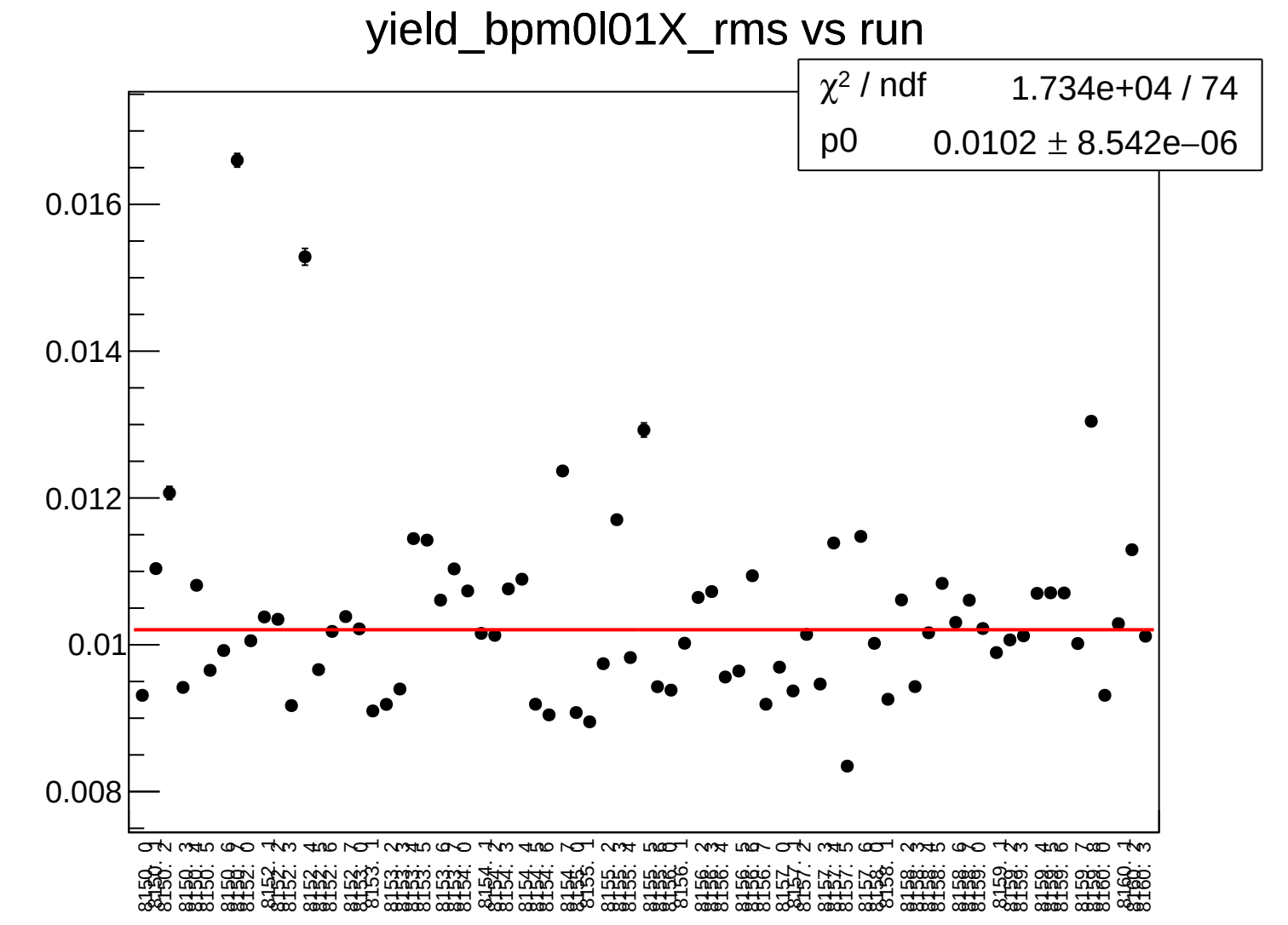

yield_bpm0i01aY_mean vs run
χ² / ndf 6.975e+05 / 74
p0 1.433 ± 6.425e−06
1.444
1.442
1.44
1.438
1.436
1.434
1.432
1.43
1.428
1.426
1.424
1.422
pull
Entries 75
Mean 1029
Std Dev 982.3
150
100
50
0
−50
−100
−150

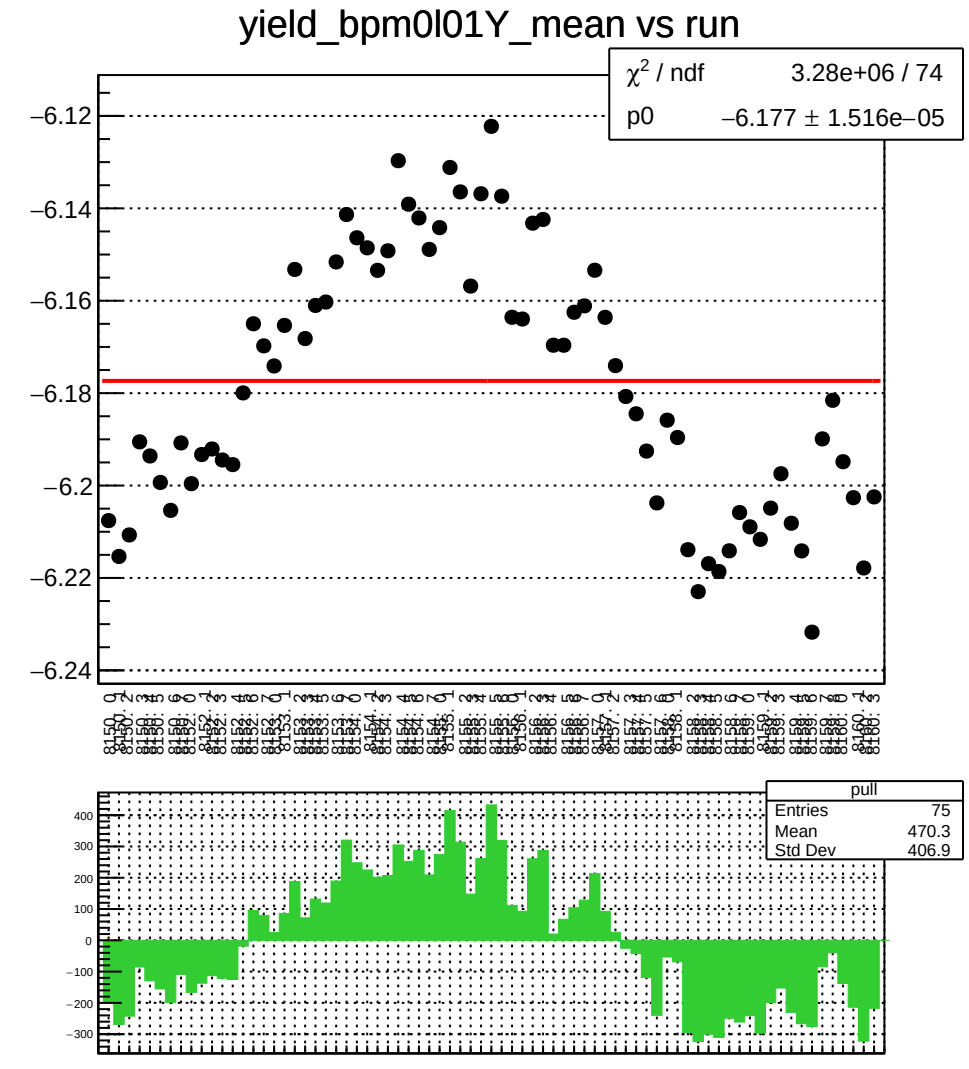

pull1D
Entries 75
Mean −4.655
Std Dev 2.606
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

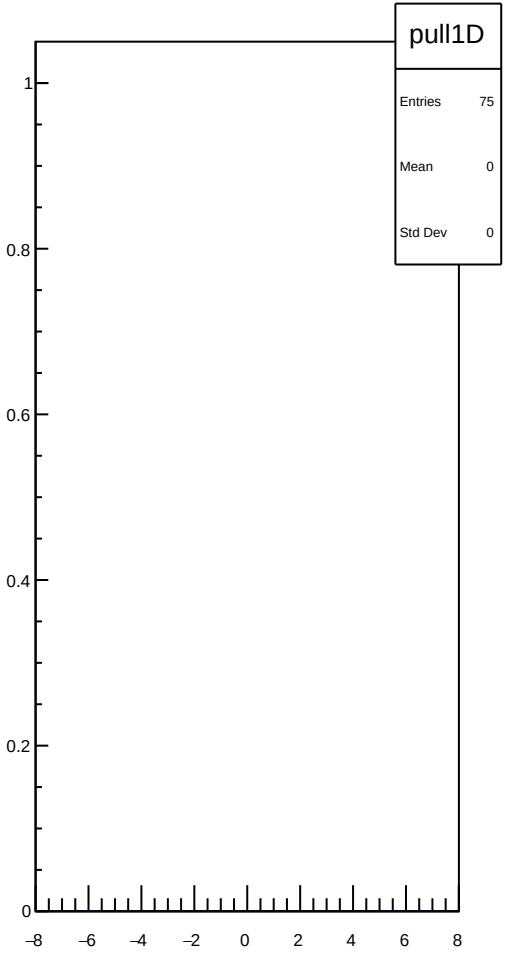

yield_bpm0i01aY_rms vs run
χ² / ndf 7635 / 74
p0 0.005446 ± 4.543e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

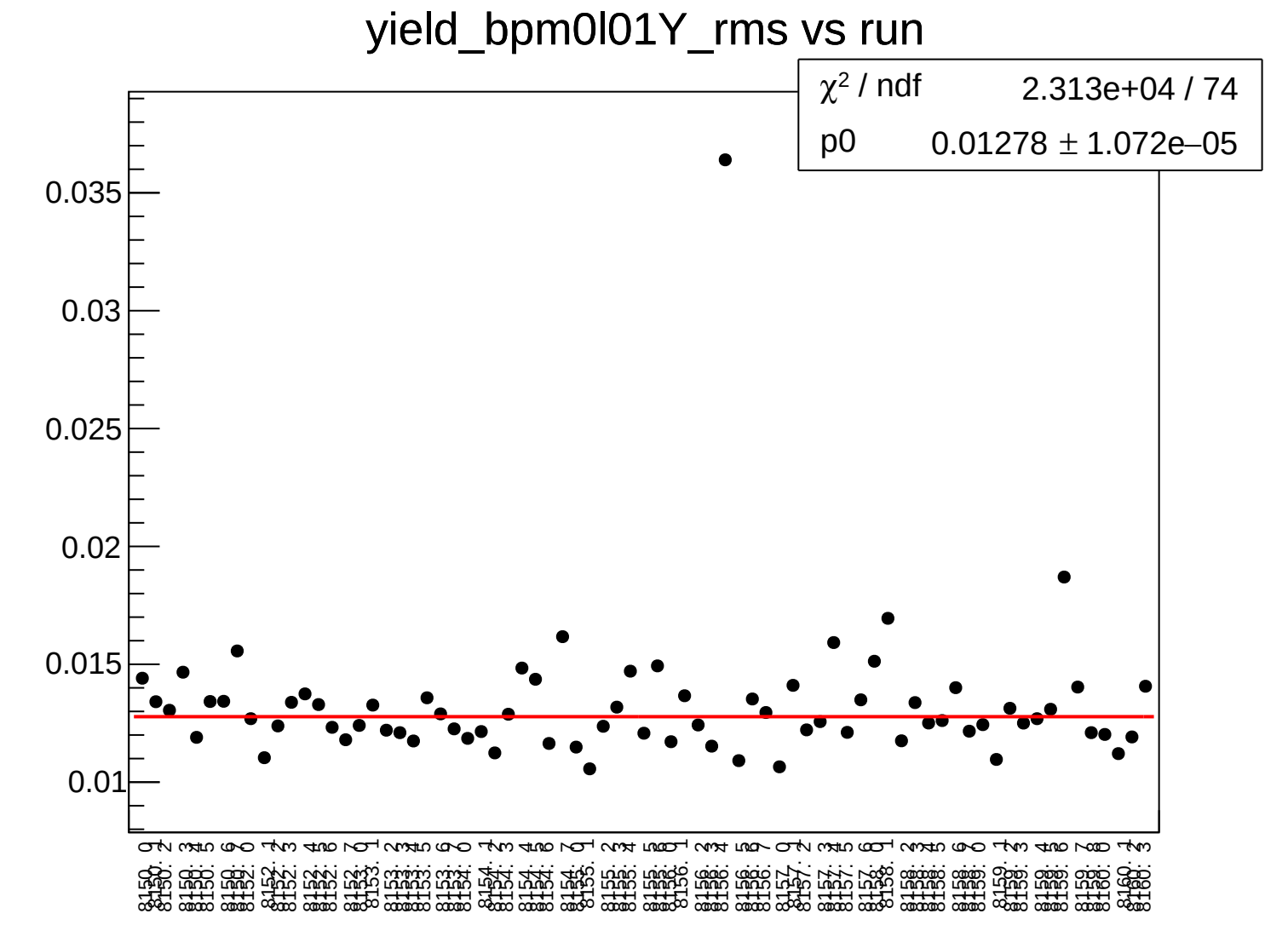

yield_bpm0l01X_mean vs run
χ² / ndf 4.362e+06 / 74
p0 0.6956 ± 1.208e−05
0.76
0.74
0.72
0.7
0.68
0.66
pull
Entries 75
Mean −1014
Std Dev 1049
600
400
200
0
−200
−400

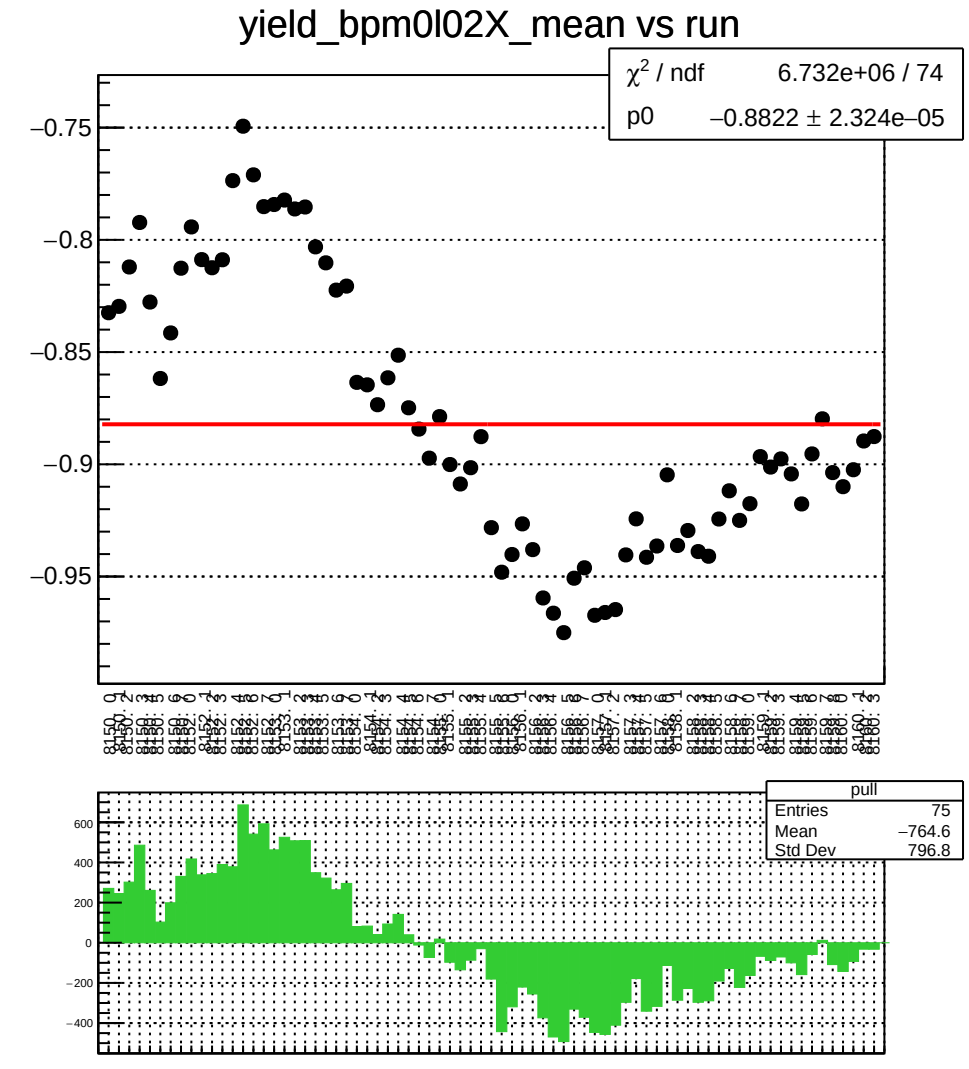

pull1D
Entries 75
Mean −1.421
Std Dev 2.395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

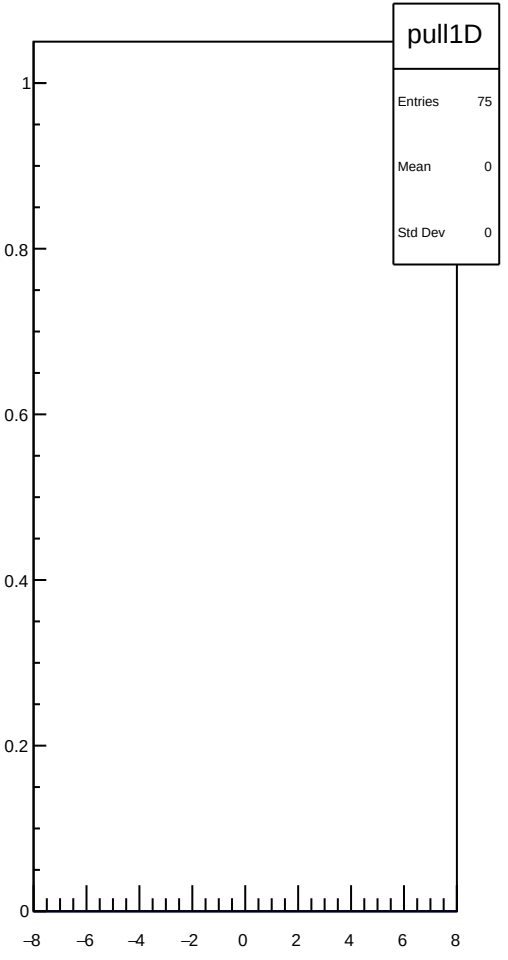

yield_bpm0l01X_rms vs run
χ² / ndf 1.734e+04 / 74
p0 0.0102 ± 8.542e−06
0.016
0.014
0.012
0.01
0.008

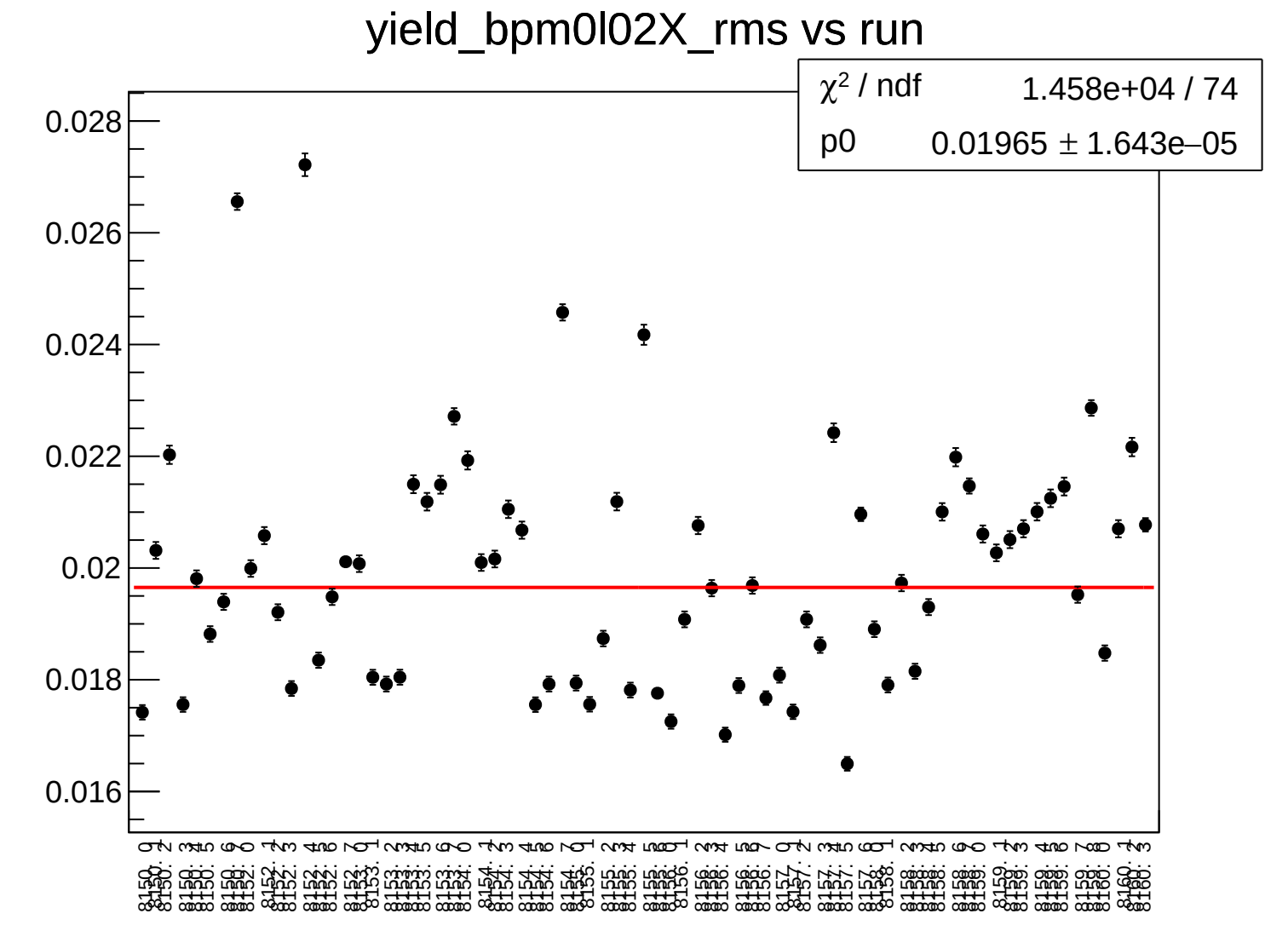

yield_bpm0l01Y_mean vs run
χ² / ndf 3.28e+06 / 74
p0 −6.177 ± 1.516e−05
−6.12
−6.14
−6.16
−6.18
−6.2
−6.22
−6.24
pull
Entries 75
Mean 470.3
Std Dev 406.9
400
300
200
100
0
−100
−200
−300

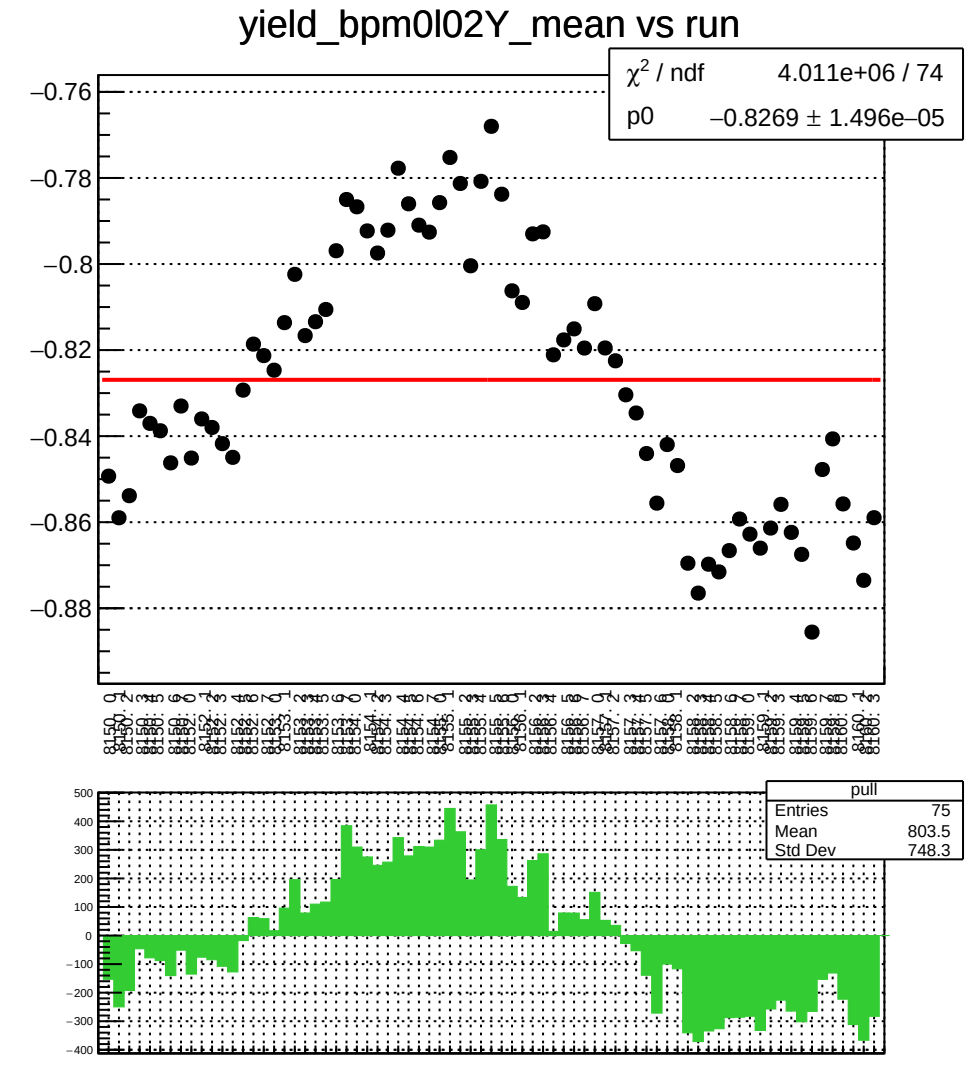

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

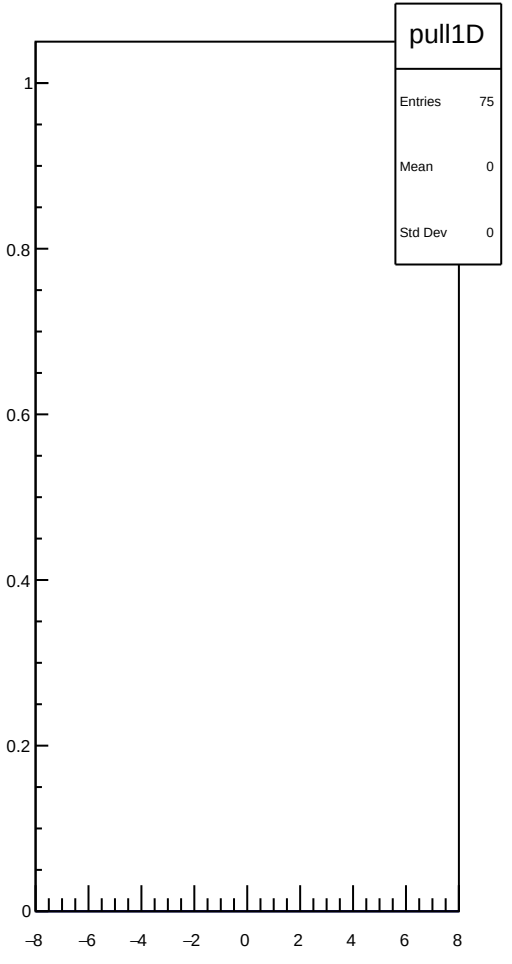

yield_bpm0l01Y_rms vs run
χ² / ndf 2.313e+04 / 74
p0 0.01278 ± 1.072e−05
0.035
0.03
0.025
0.02
0.015
0.01

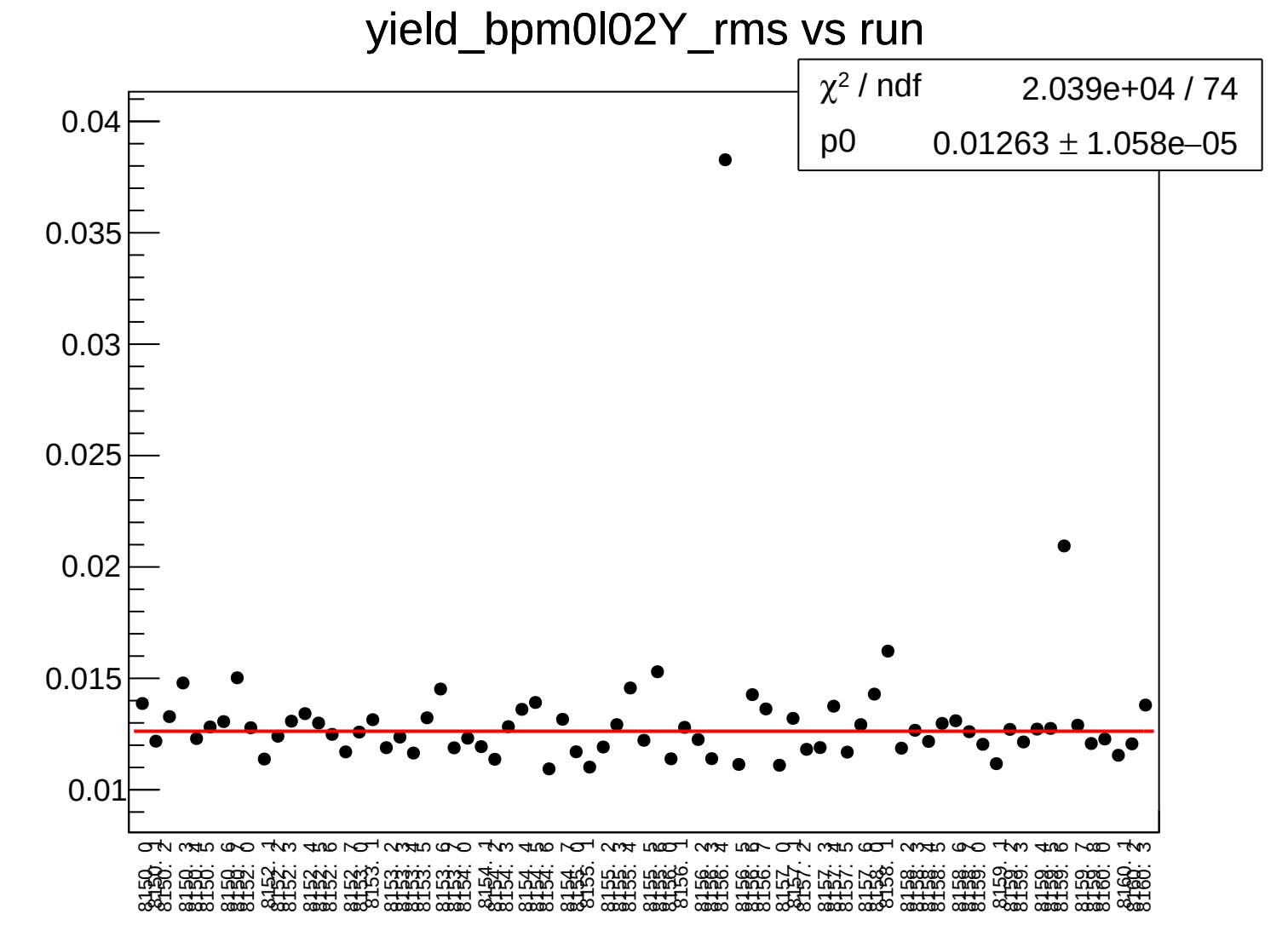

yield_bpm0l02X_mean vs run
χ² / ndf 6.732e+06 / 74
p0 −0.8822 ± 2.324e−05
−0.75
−0.8
−0.85
−0.9
−0.95
pull
Entries 75
Mean −764.6
Std Dev 796.8
600
400
200
0
−200
−400

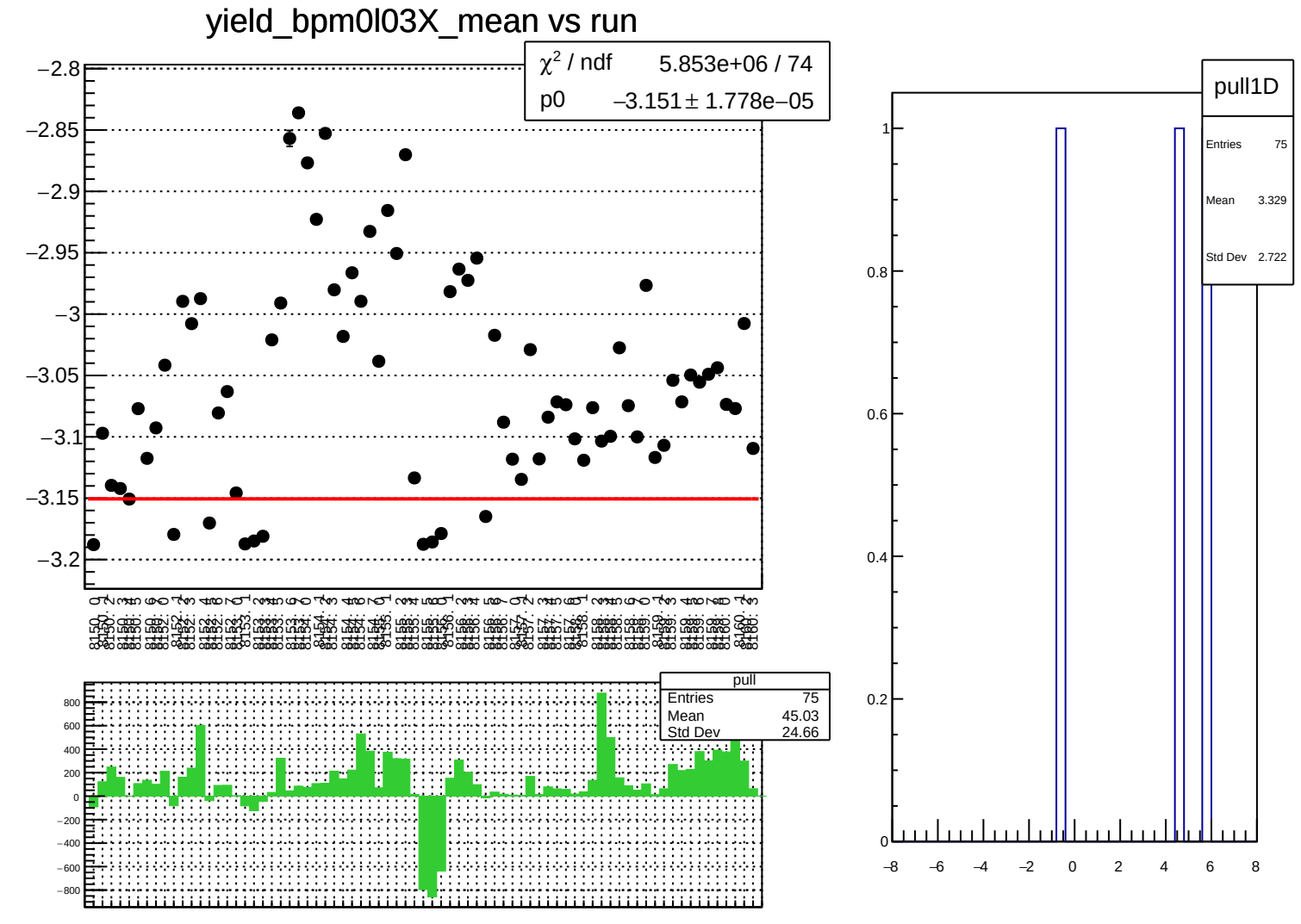

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

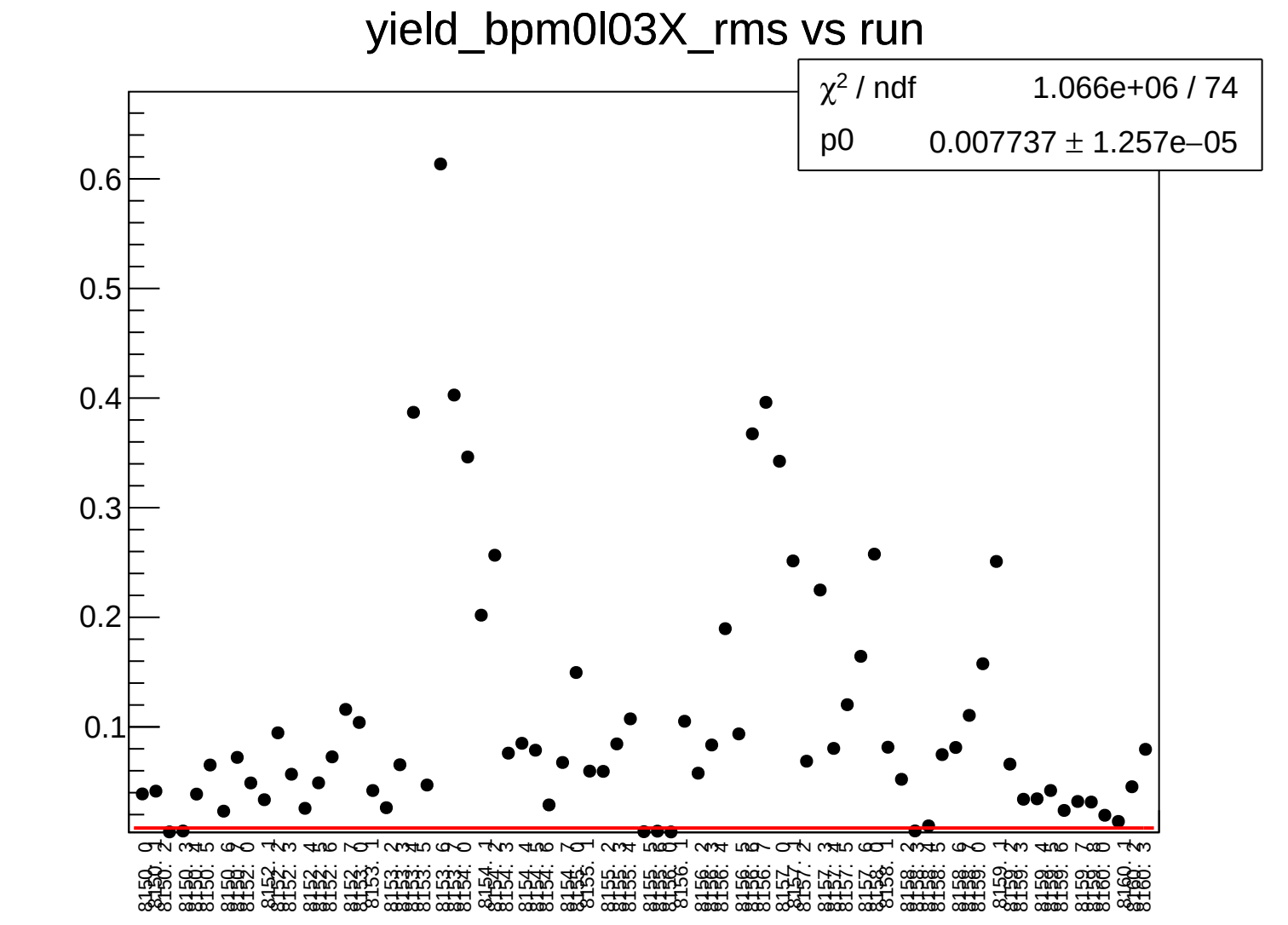

yield_bpm0l02X_rms vs run
χ² / ndf 1.458e+04 / 74
p0 0.01965 ± 1.643e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016

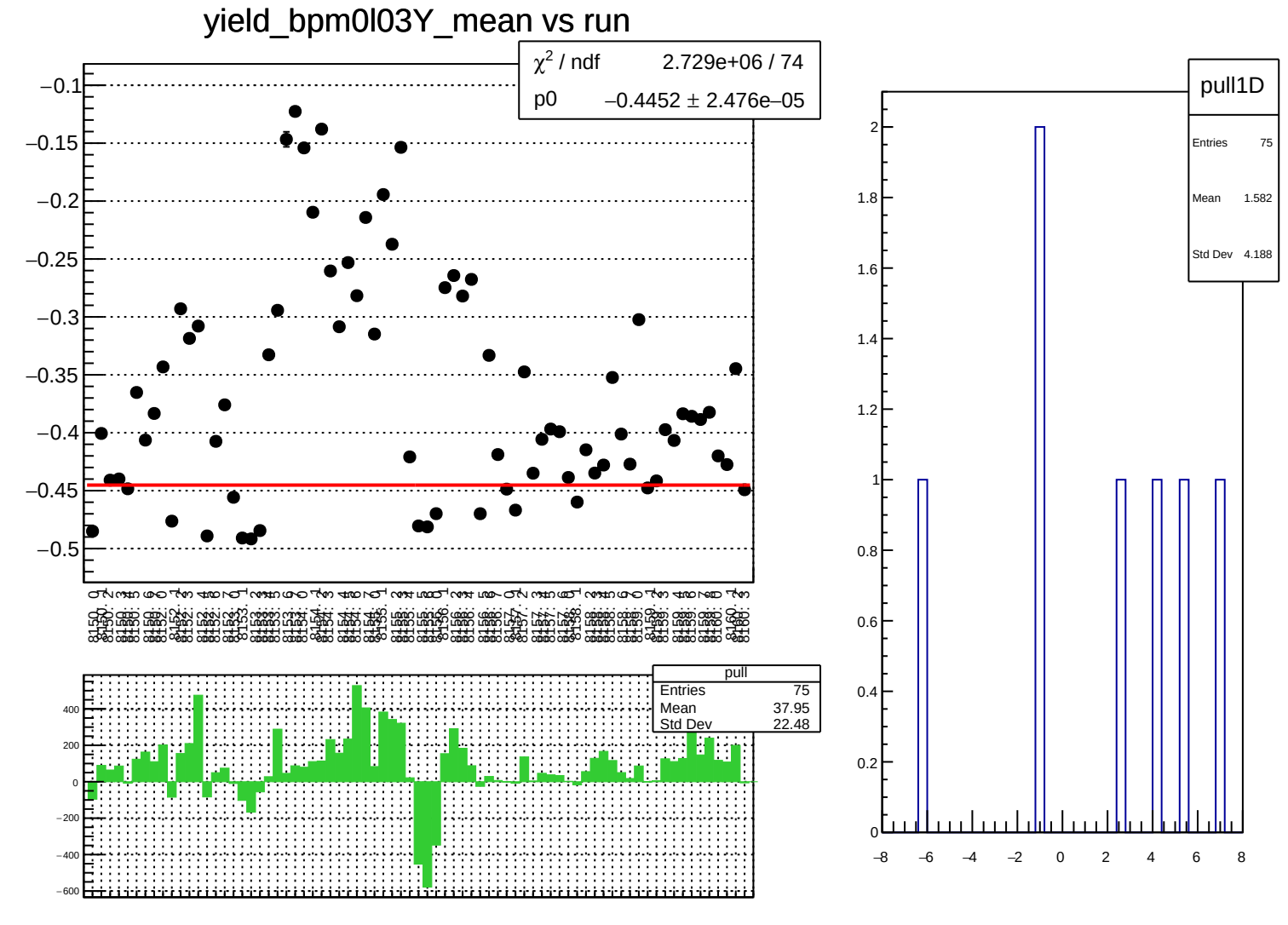

yield_bpm0l02Y_mean vs run
χ² / ndf 4.011e+06 / 74
p0 −0.8269 ± 1.496e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 75
Mean 803.5
Std Dev 748.3
500
400
300
200
100
0
−100
−200
−300
−400

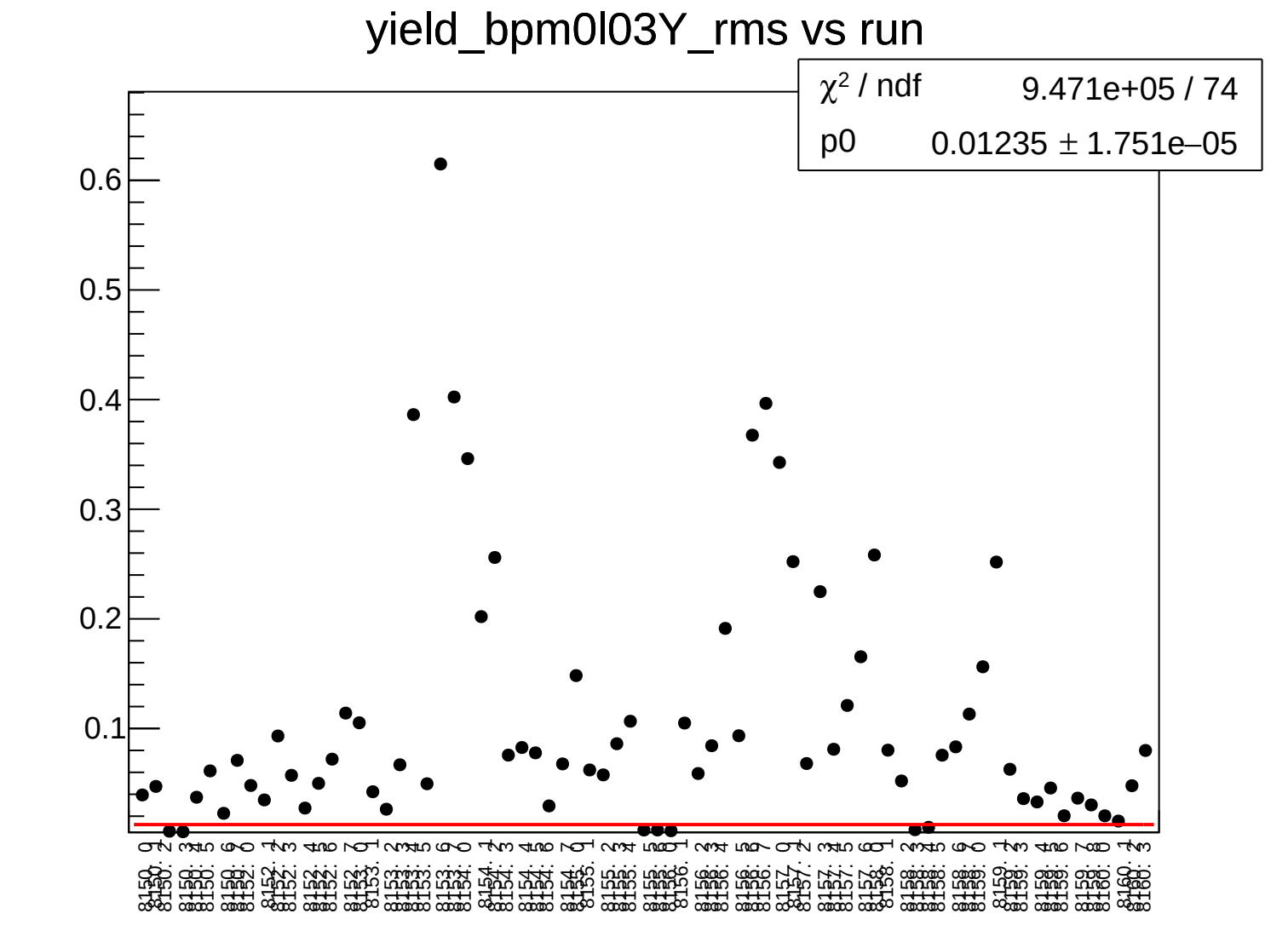

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

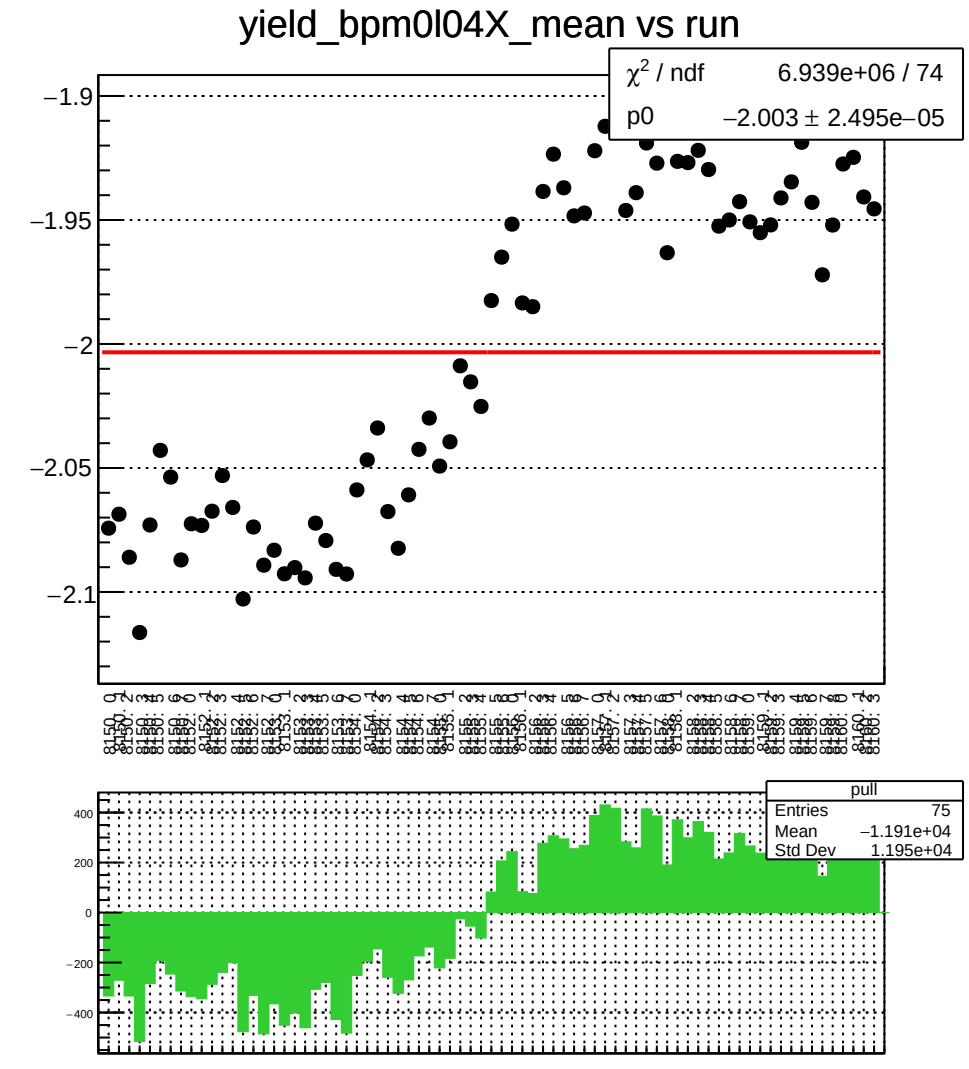

yield_bpm0l02Y_rms vs run
χ² / ndf 2.039e+04 / 74
p0 0.01263 ± 1.058e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

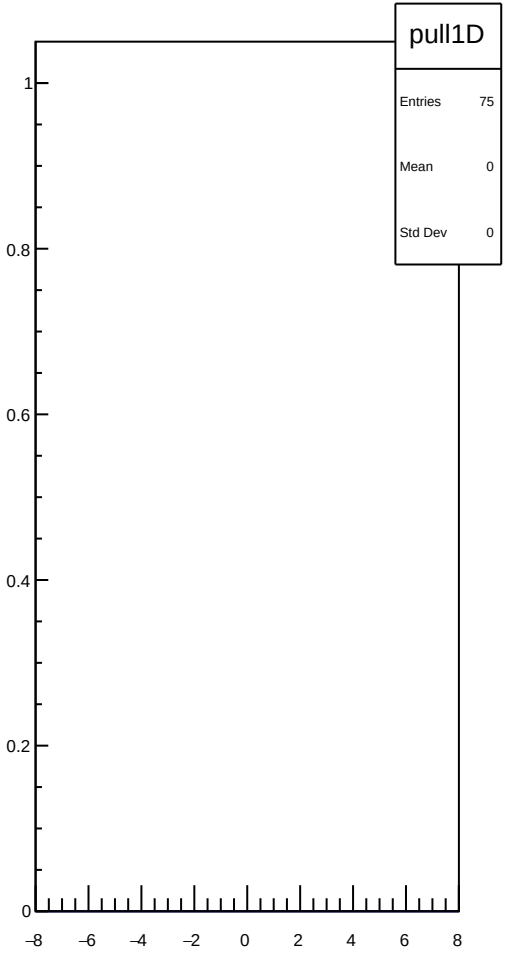

yield_bpm0l03X_mean vs run
χ² / ndf 5.853e+06 / 74
p0 −3.151 ± 1.778e−05
pull
Entries 75
Mean 45.03
Std Dev 24.66
pull1D
Entries 75
Mean 3.329
Std Dev 2.722

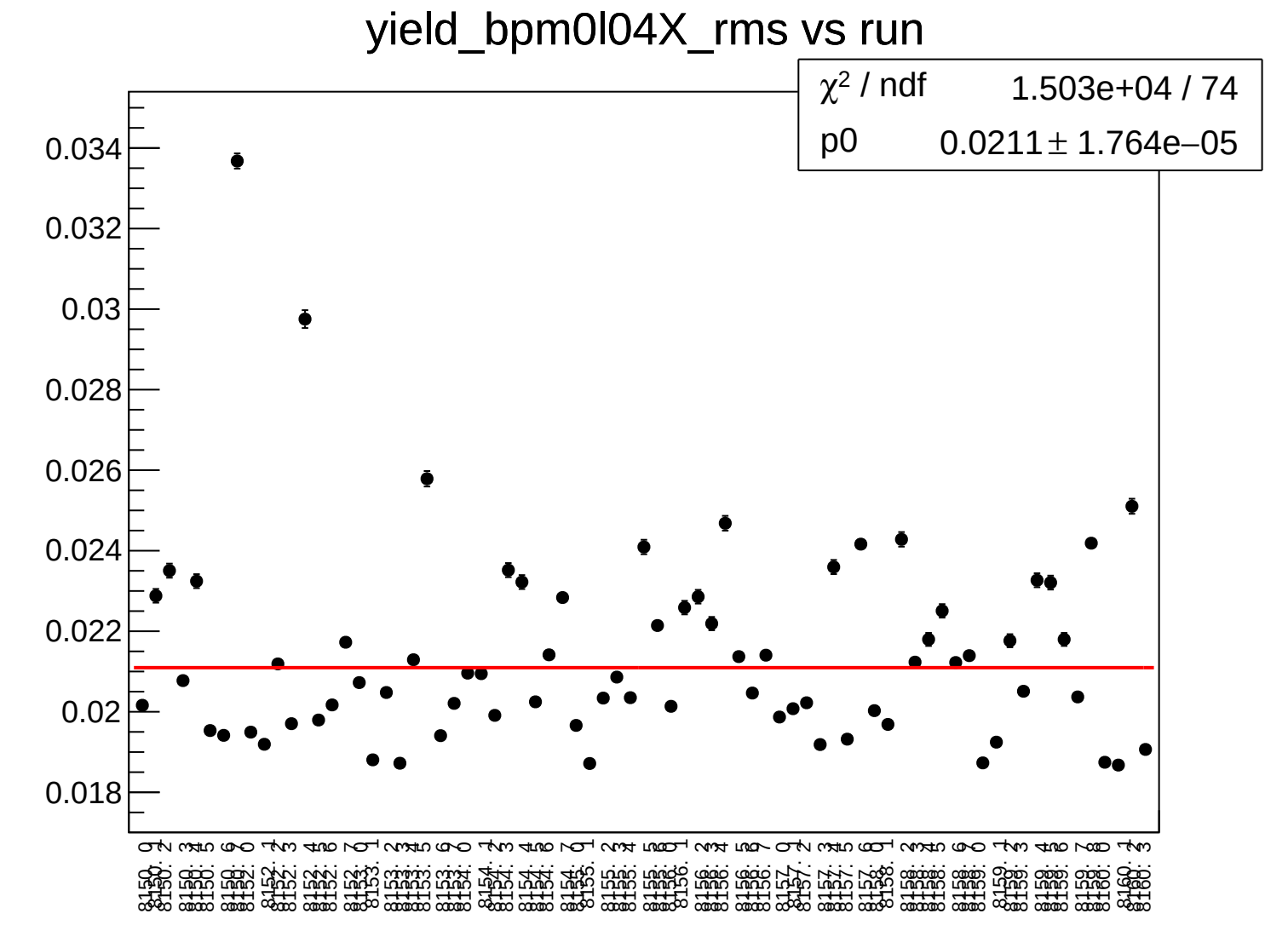

yield_bpm0l03X_rms vs run
χ² / ndf 1.066e+06 / 74
p0 0.007737 ± 1.257e−05
0.6
0.5
0.4
0.3
0.2
0.1

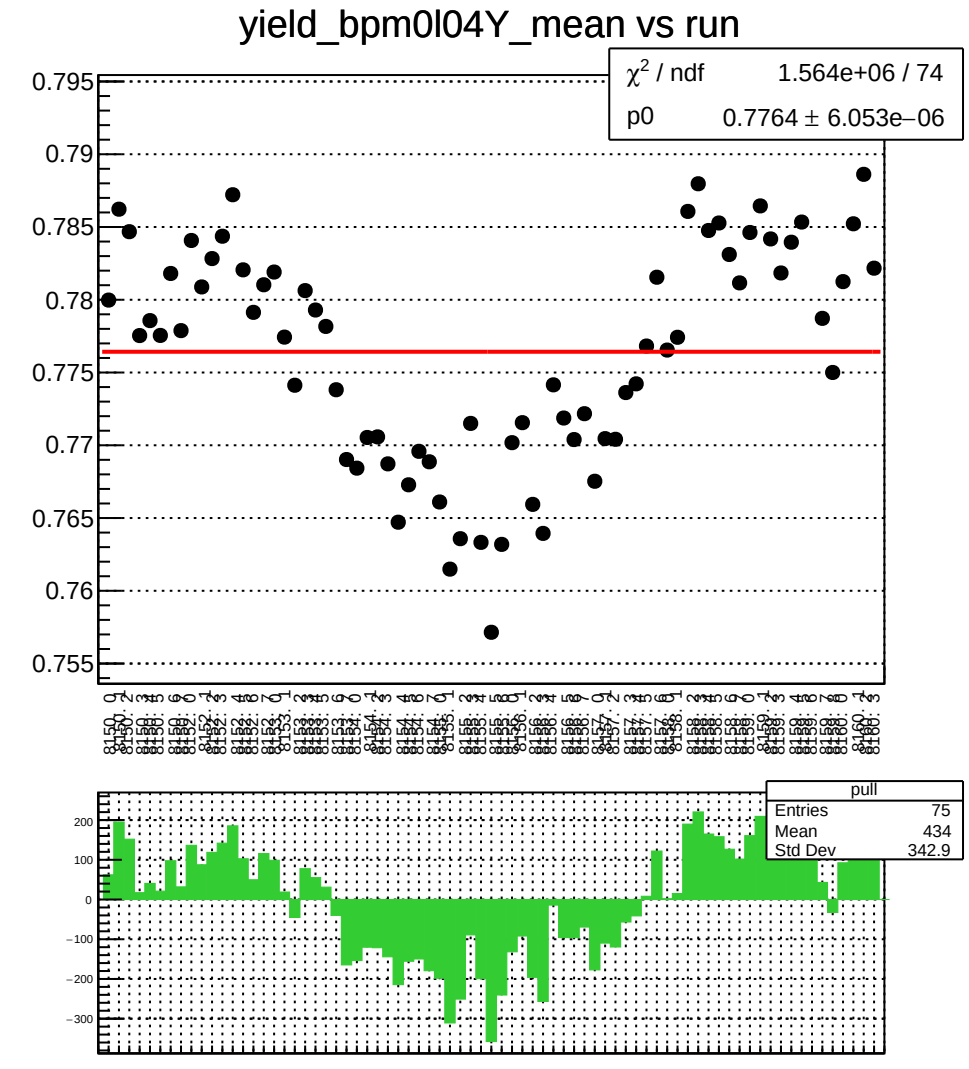

yield_bpm0l03Y_mean vs run
χ² / ndf 2.729e+06 / 74
p0 −0.4452 ± 2.476e−05
pull
Entries 75
Mean 37.95
Std Dev 22.48
pull1D
Entries 75
Mean 1.582
Std Dev 4.188

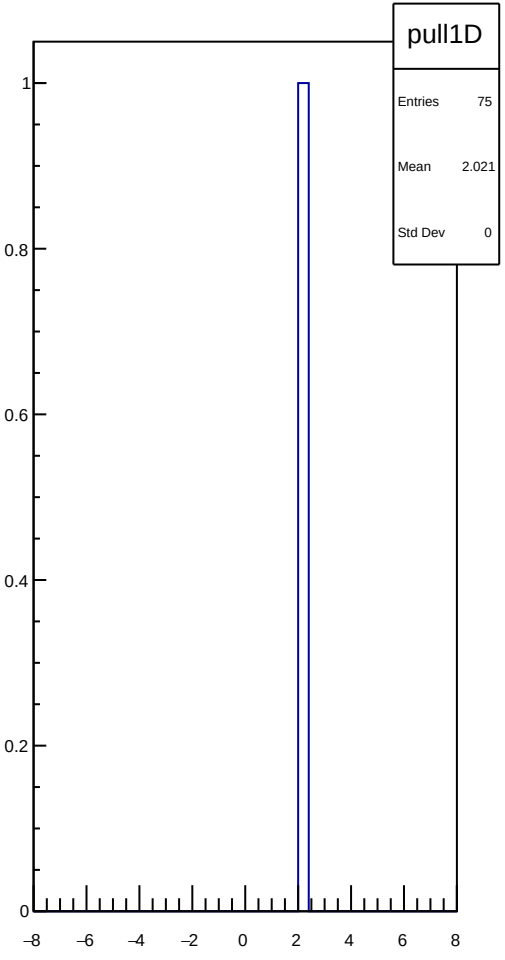

yield_bpm0l03Y_rms vs run
χ² / ndf 9.471e+05 / 74
p0 0.01235 ± 1.751e–05
0.6
0.5
0.4
0.3
0.2
0.1

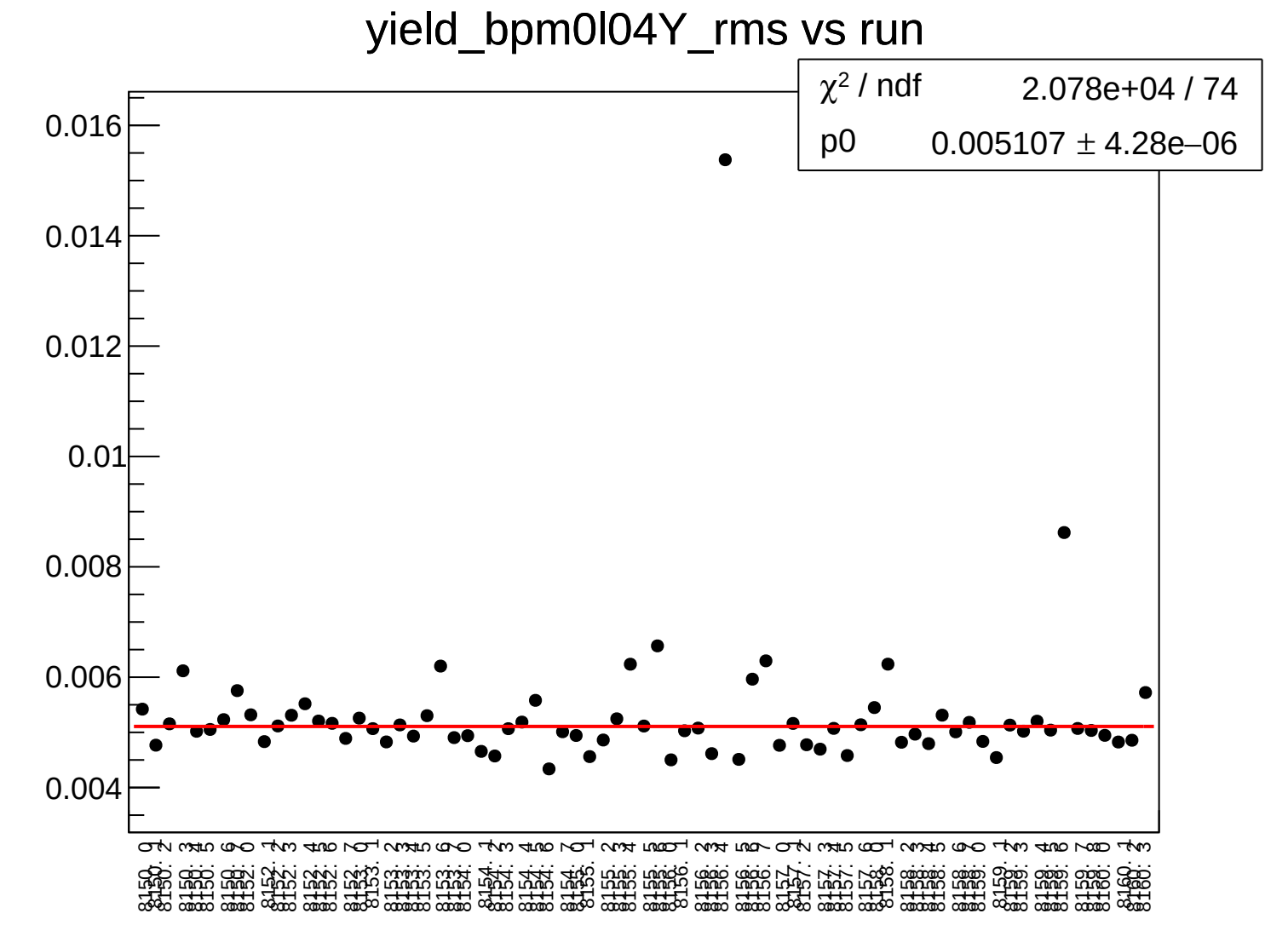

yield_bpm0l04X_mean vs run
χ² / ndf 6.939e+06 / 74
p0 −2.003 ± 2.495e−05
−1.9
−1.95
−2
−2.05
−2.1
pull
Entries 75
Mean −1.191e+04
Std Dev 1.195e+04
400
200
0
−200
−400

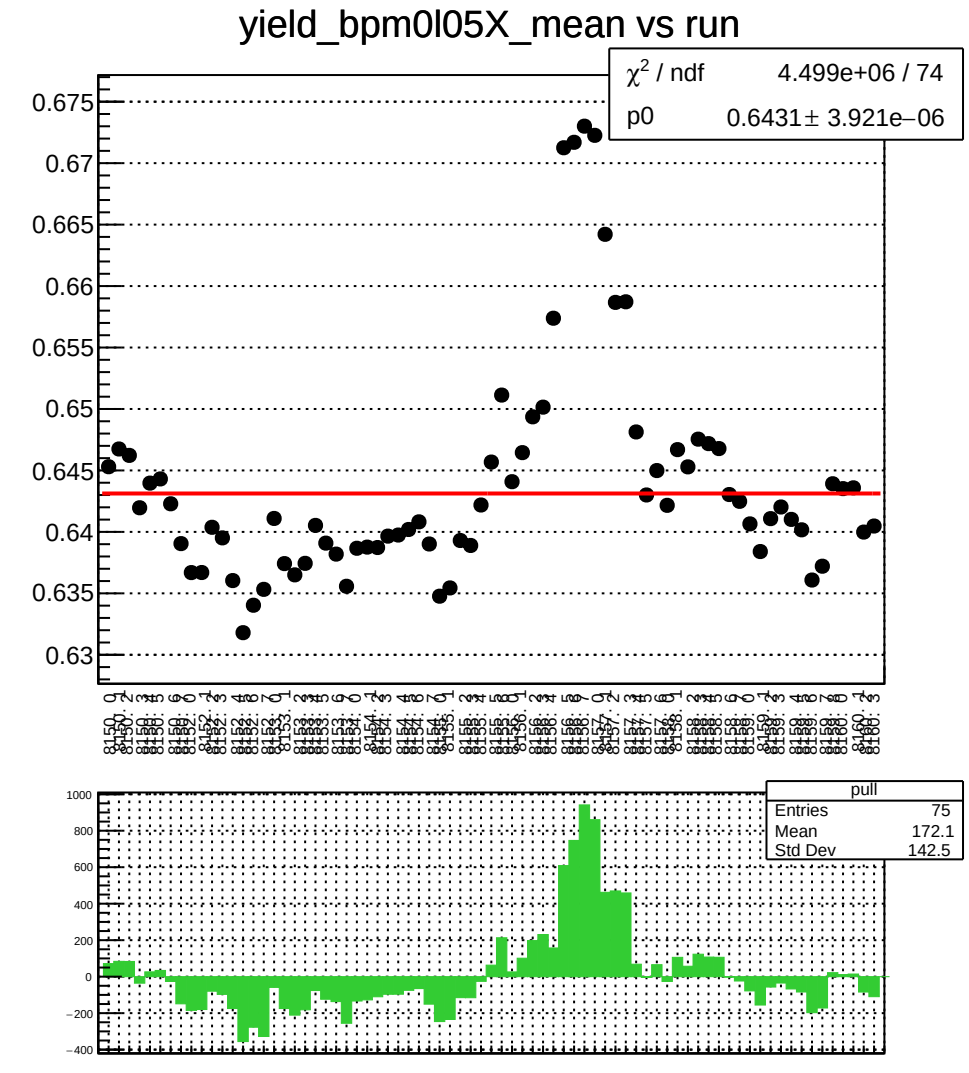

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

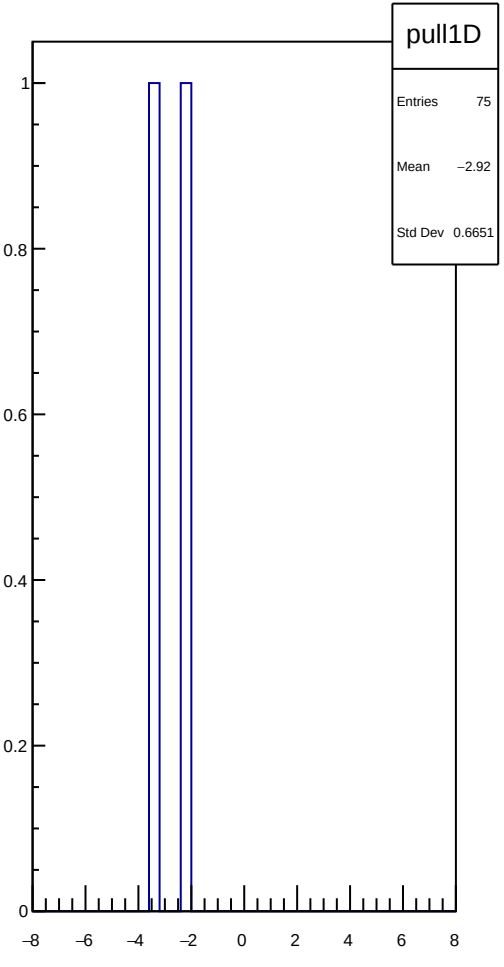

yield_bpm0l04X_rms vs run
χ² / ndf 1.503e+04 / 74
p0 0.0211 ± 1.764e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018

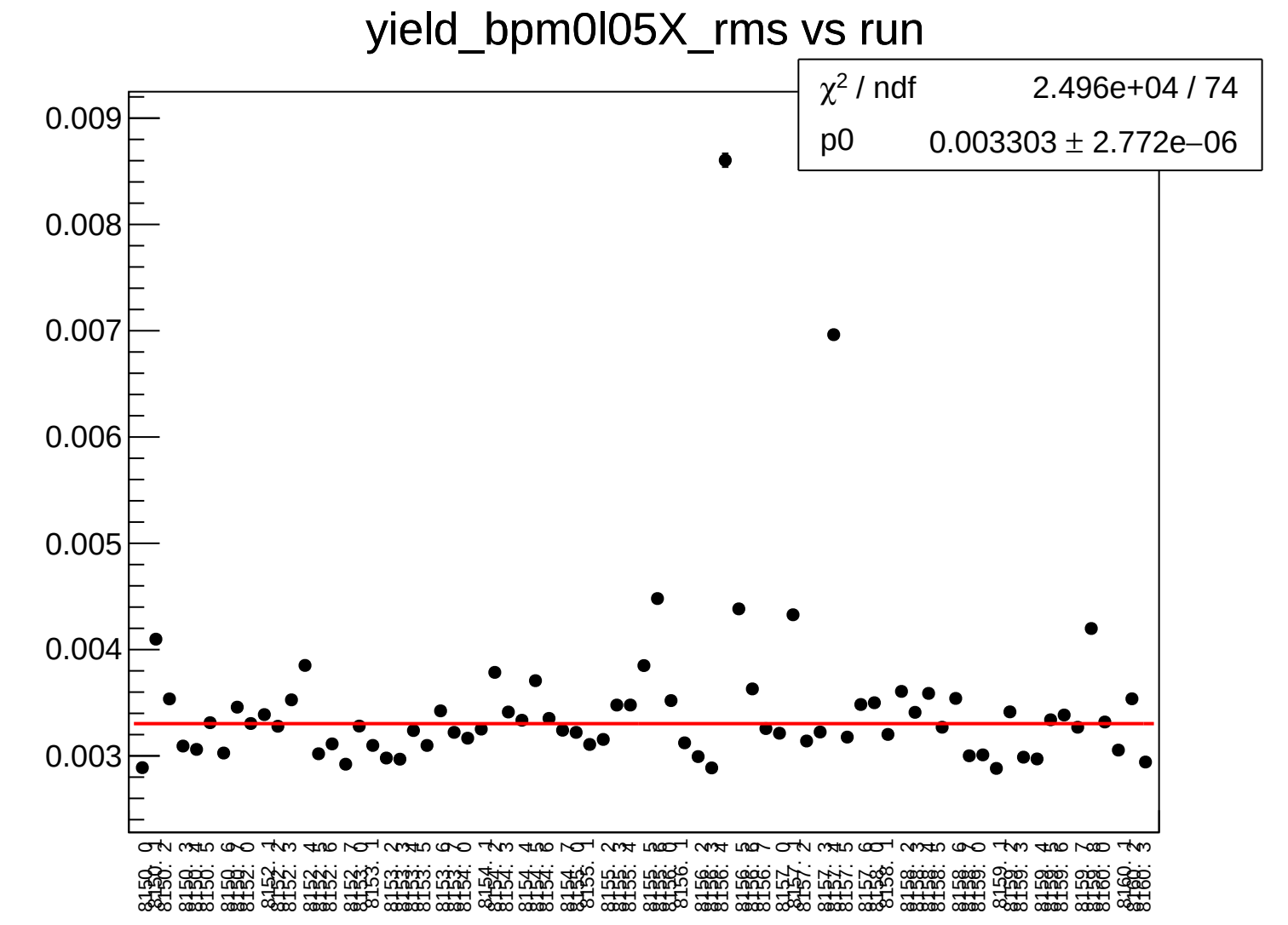

yield_bpm0l04Y_mean vs run
χ² / ndf 1.564e+06 / 74
p0 0.7764 ± 6.053e−06
pull
Entries 75
Mean 434
Std Dev 342.9

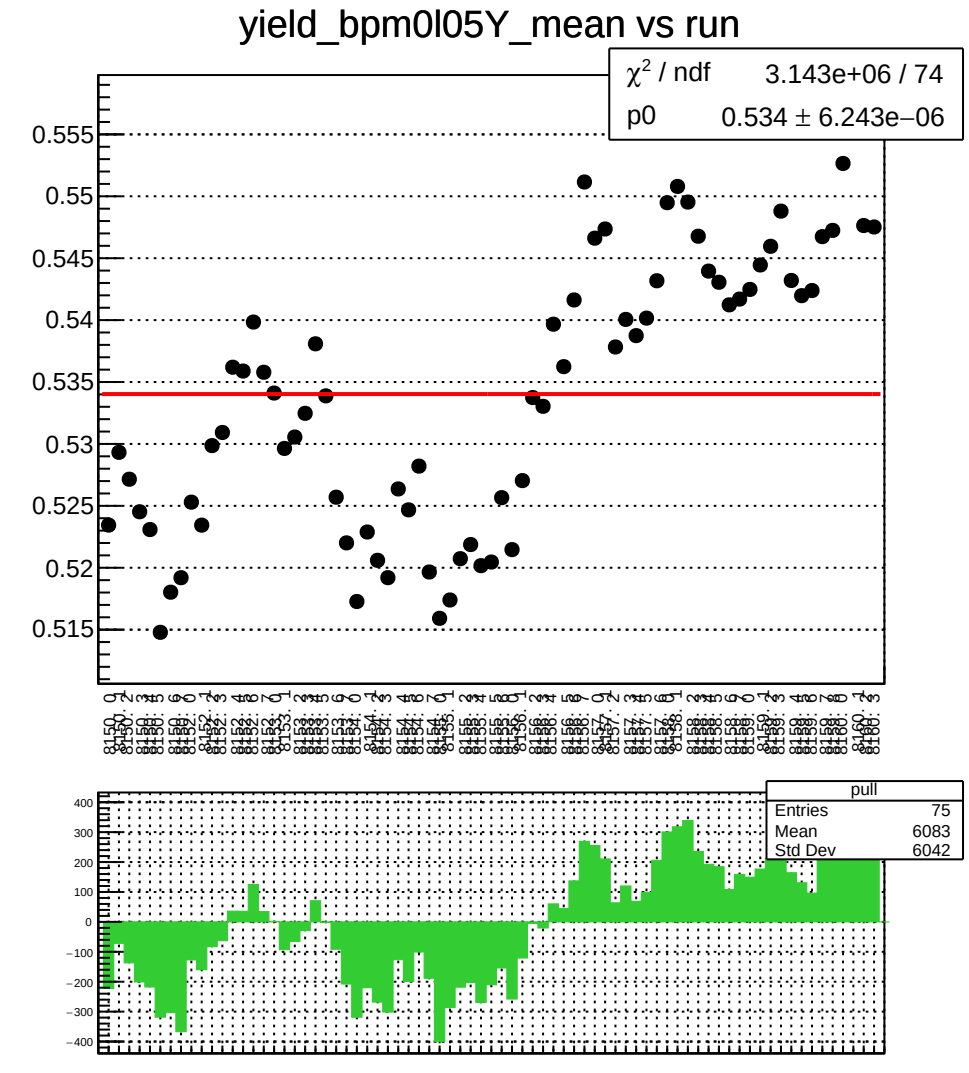

pull1D
Entries 75
Mean 2.021
Std Dev 0

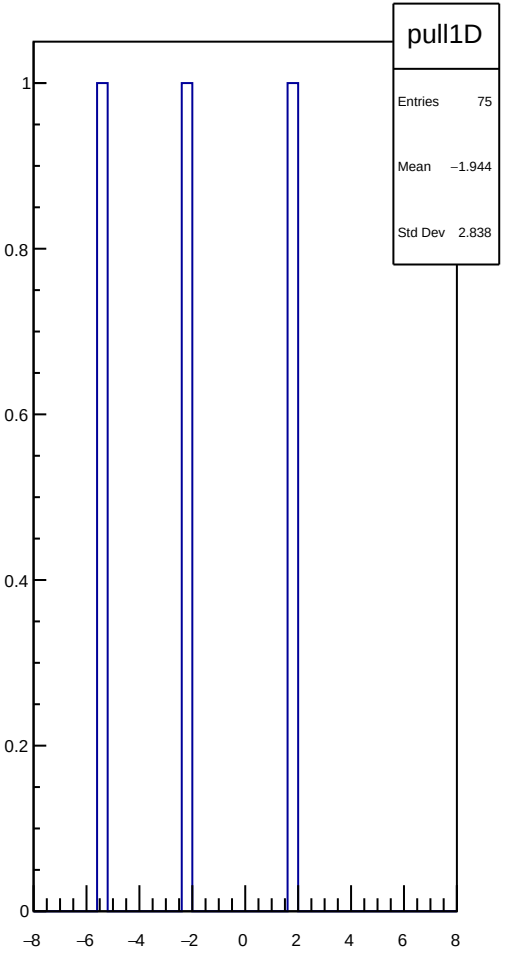

yield_bpm0l04Y_rms vs run
χ² / ndf 2.078e+04 / 74
p0 0.005107 ± 4.28e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

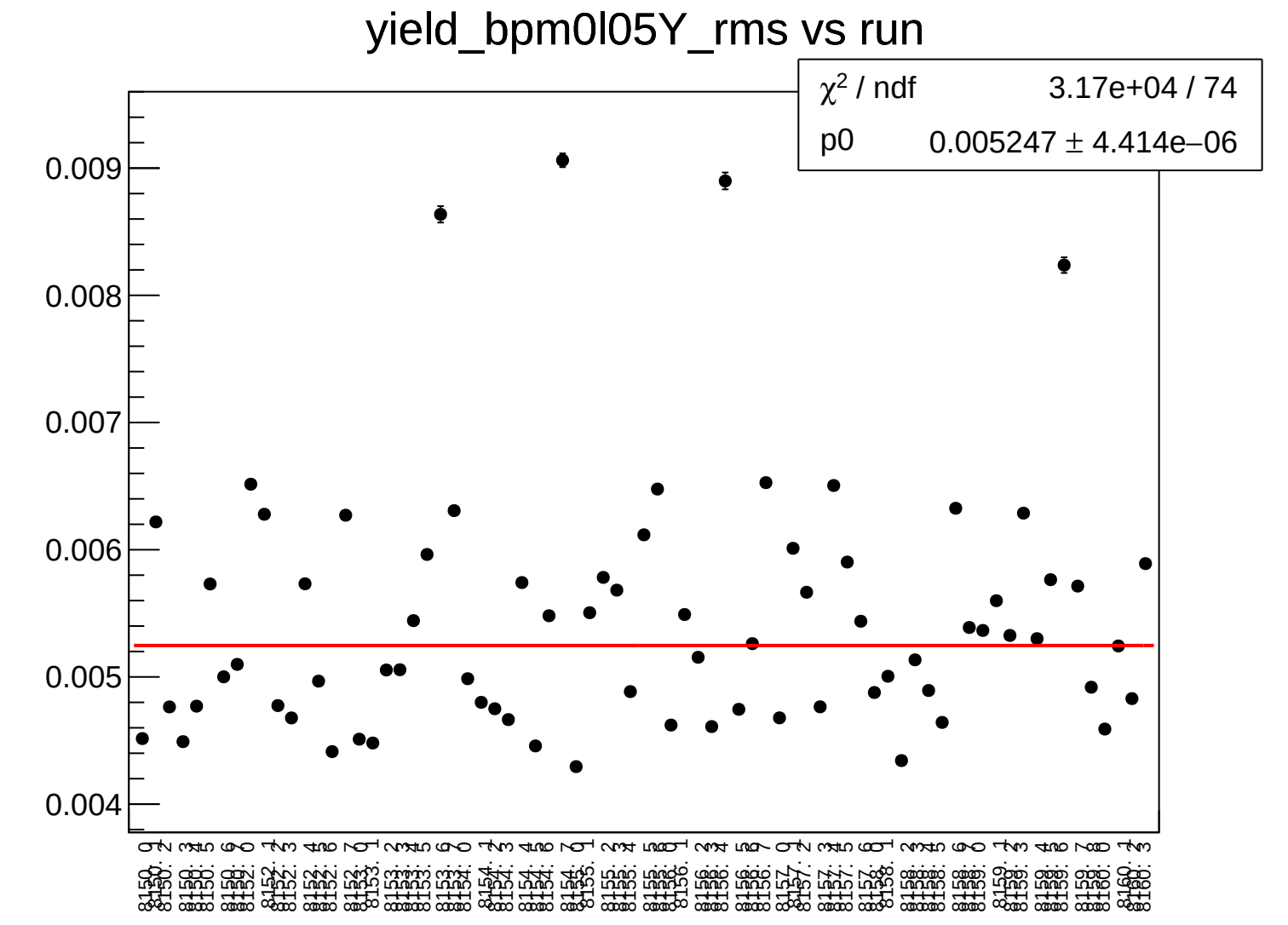

yield_bpm0l05X_mean vs run
χ² / ndf 4.499e+06 / 74
p0 0.6431 ± 3.921e−06
pull
Entries 75
Mean 172.1
Std Dev 142.5

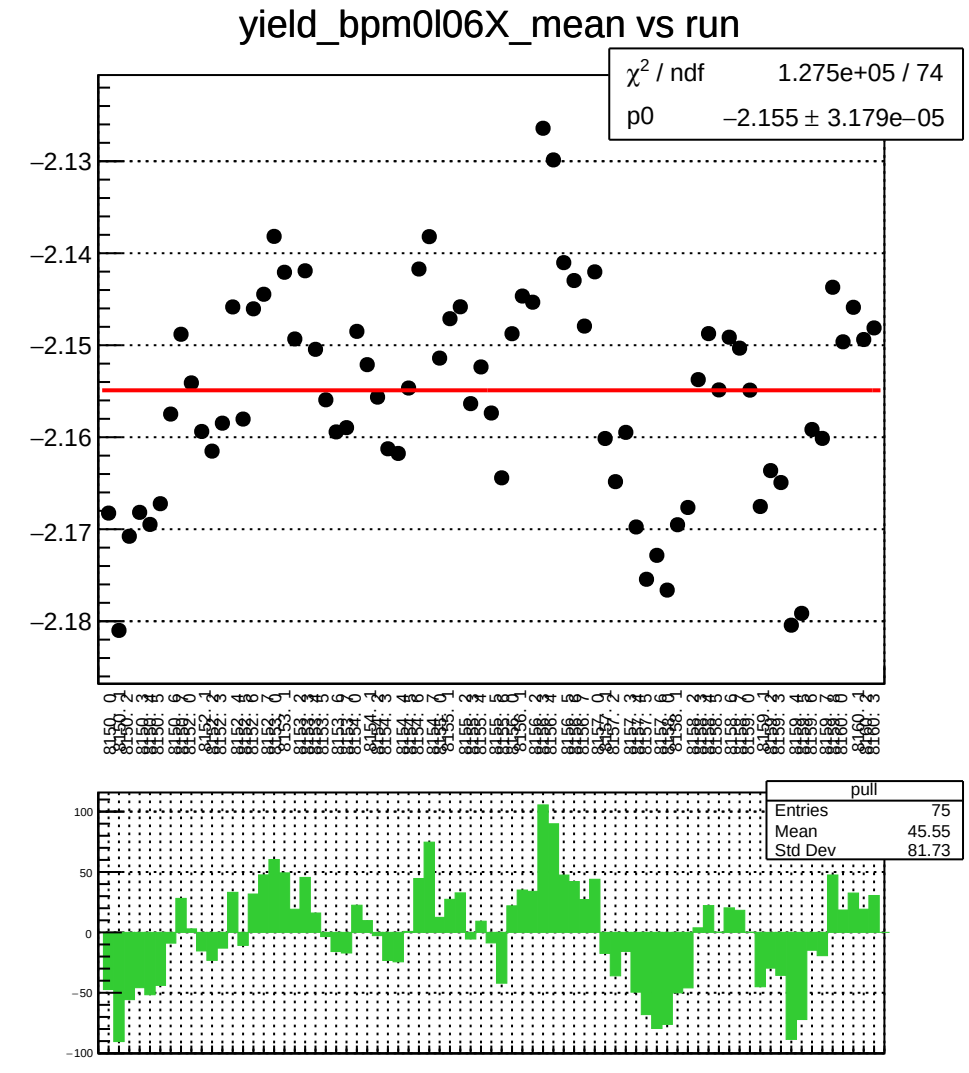

pull1D
Entries 75
Mean −2.92
Std Dev 0.6651

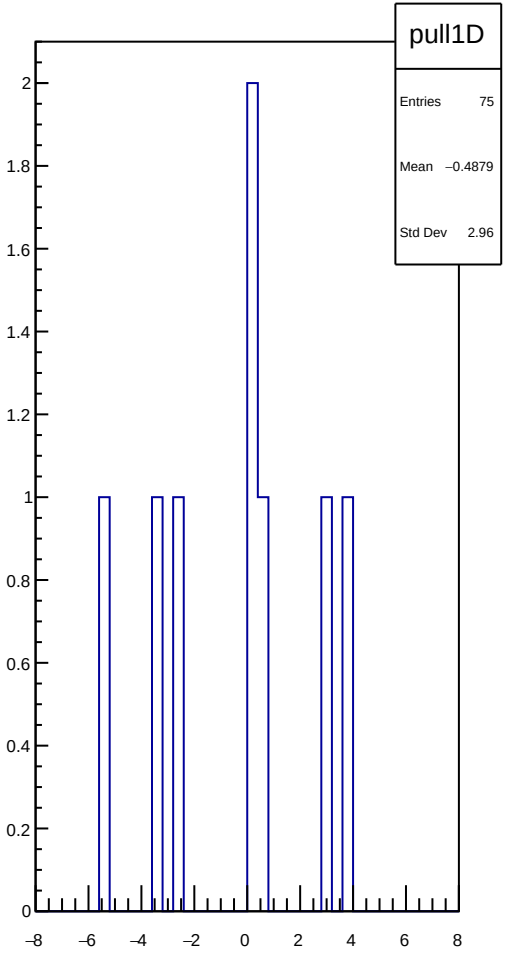

yield_bpm0l05X_rms vs run
χ² / ndf 2.496e+04 / 74
p0 0.003303 ± 2.772e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

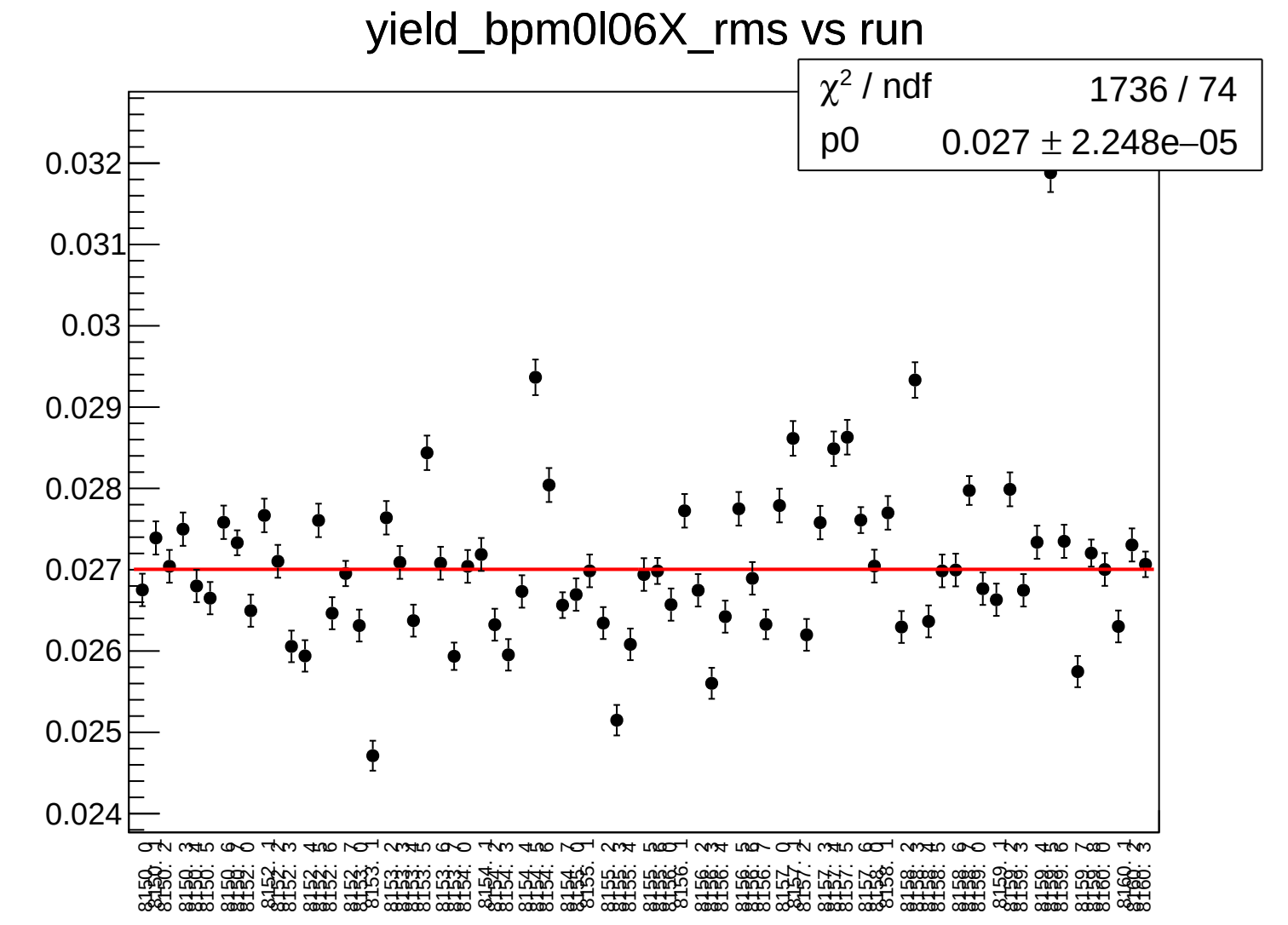

yield_bpm0l05Y_mean vs run
χ² / ndf 3.143e+06 / 74
p0 0.534 ± 6.243e−06
0.555
0.55
0.545
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 75
Mean 6083
Std Dev 6042
400
300
200
100
0
−100
−200
−300
−400

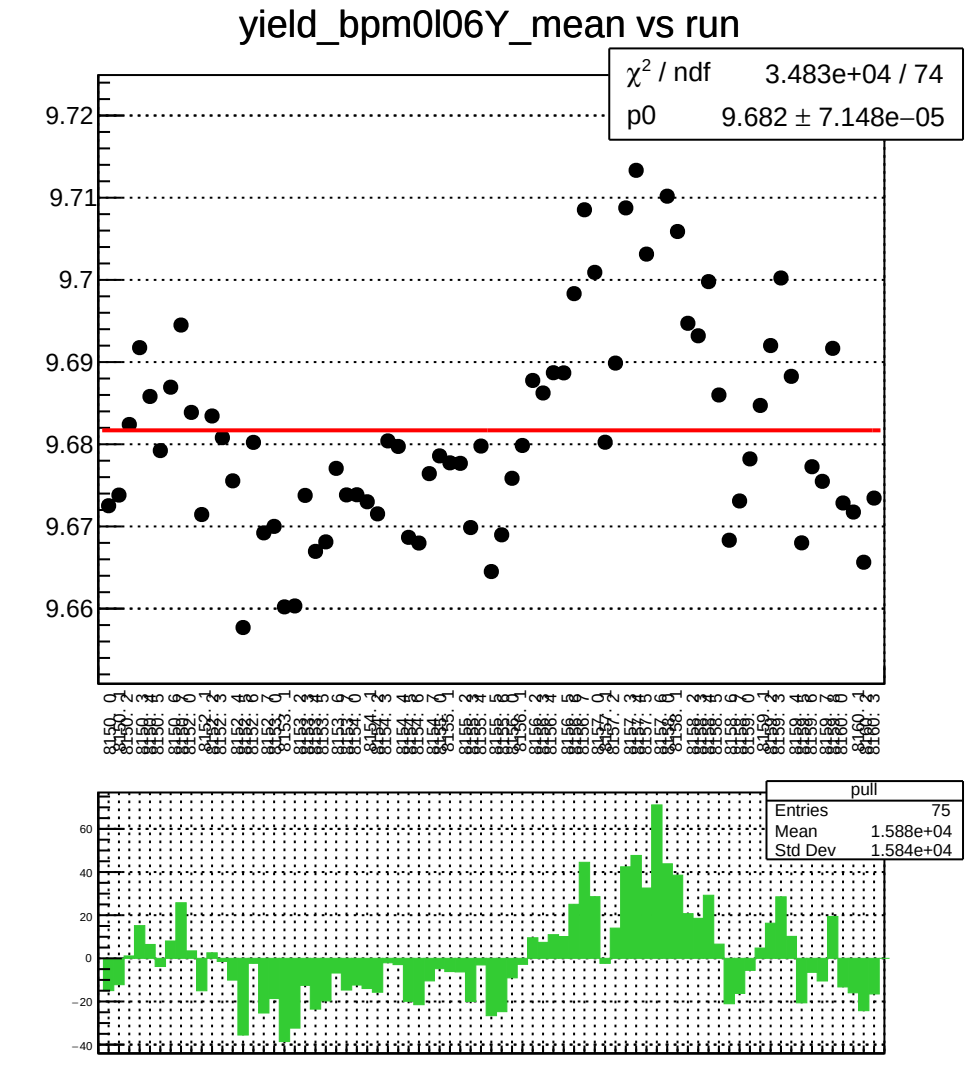

pull1D
Entries 75
Mean −1.944
Std Dev 2.838
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

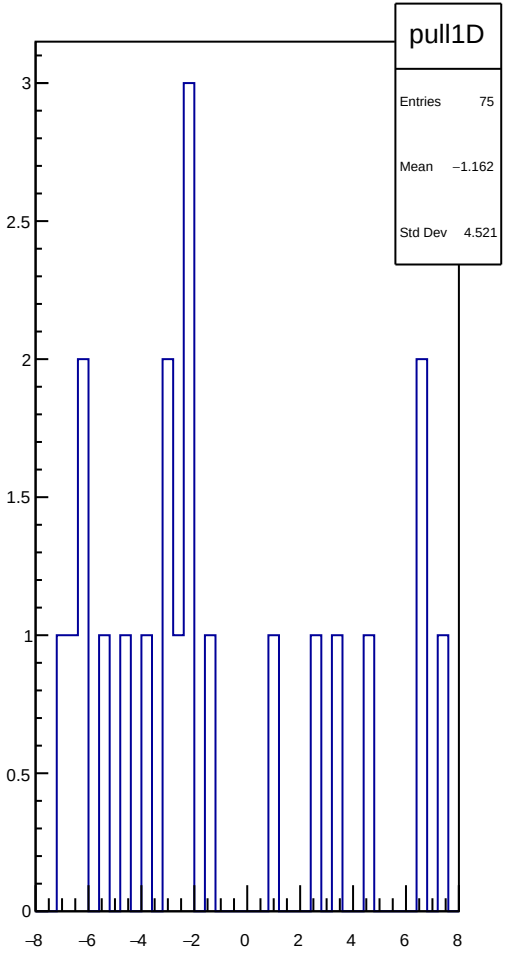

yield_bpm0l05Y_rms vs run
χ² / ndf 3.17e+04 / 74
p0 0.005247 ± 4.414e−06
0.009
0.008
0.007
0.006
0.005
0.004

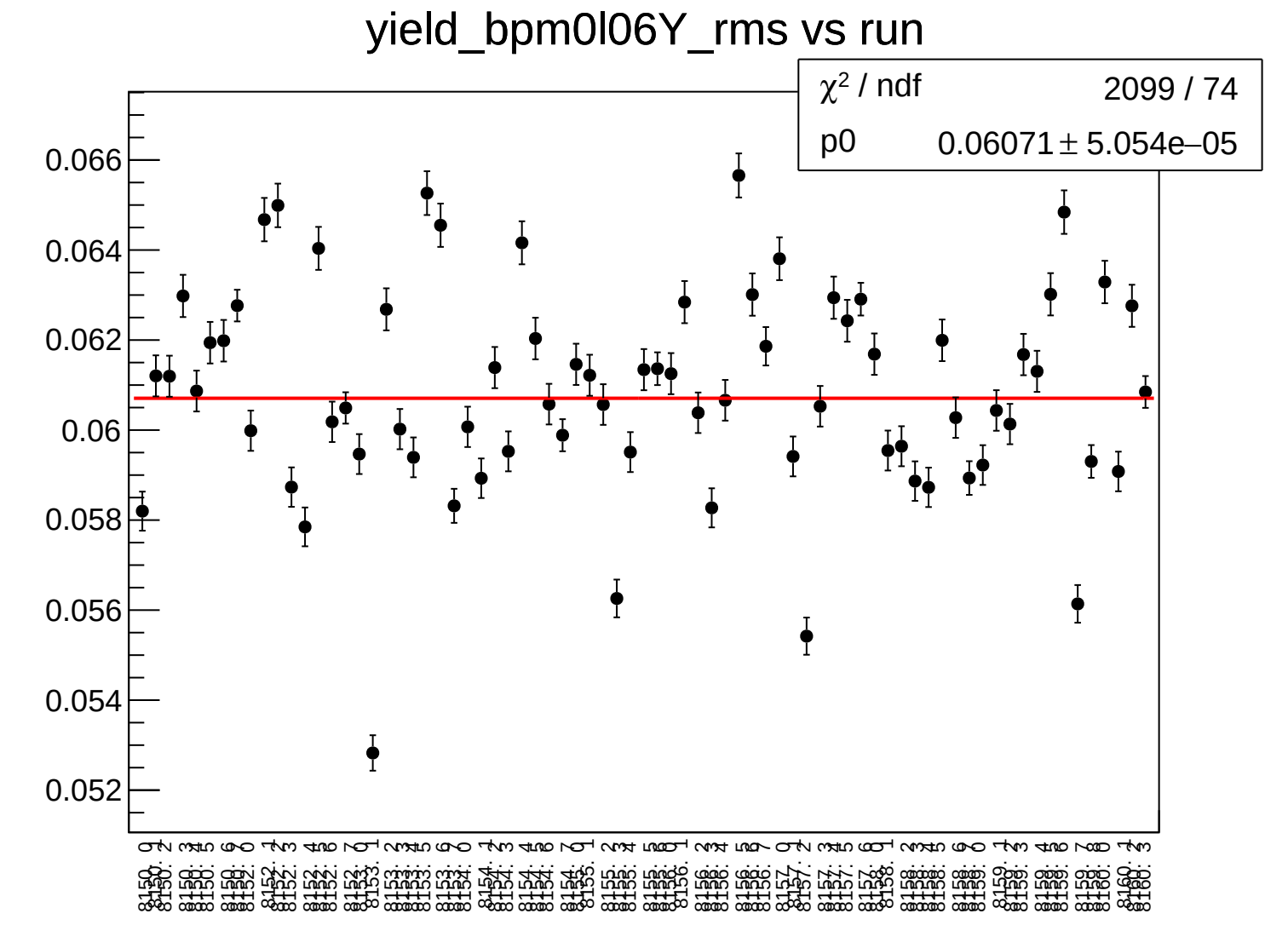

yield_bpm0l06X_mean vs run
χ² / ndf 1.275e+05 / 74
p0 −2.155 ± 3.179e−05
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
pull
Entries 75
Mean 45.55
Std Dev 81.73
100
50
0
−50
−100

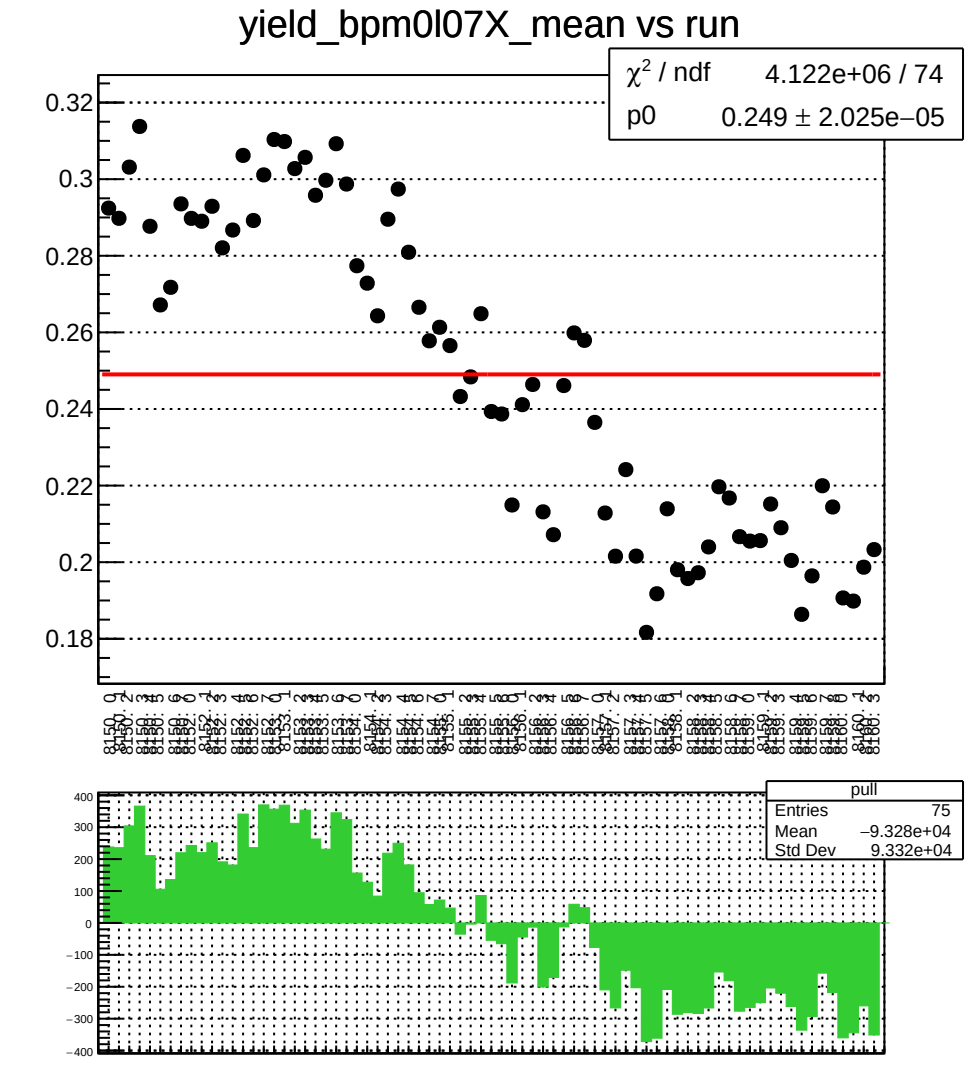

pull1D
Entries 75
Mean −0.4879
Std Dev 2.96
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

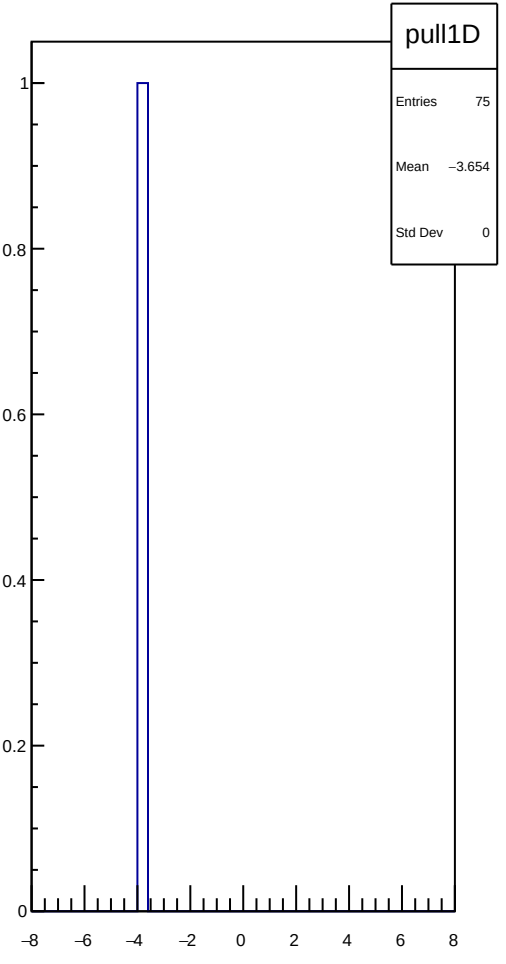

yield_bpm0l06X_rms vs run
χ^2 / ndf 1736 / 74
p0 0.027 ± 2.248e−05
0.032
0.031
0.03
0.029
0.028
0.027
0.026
0.025
0.024

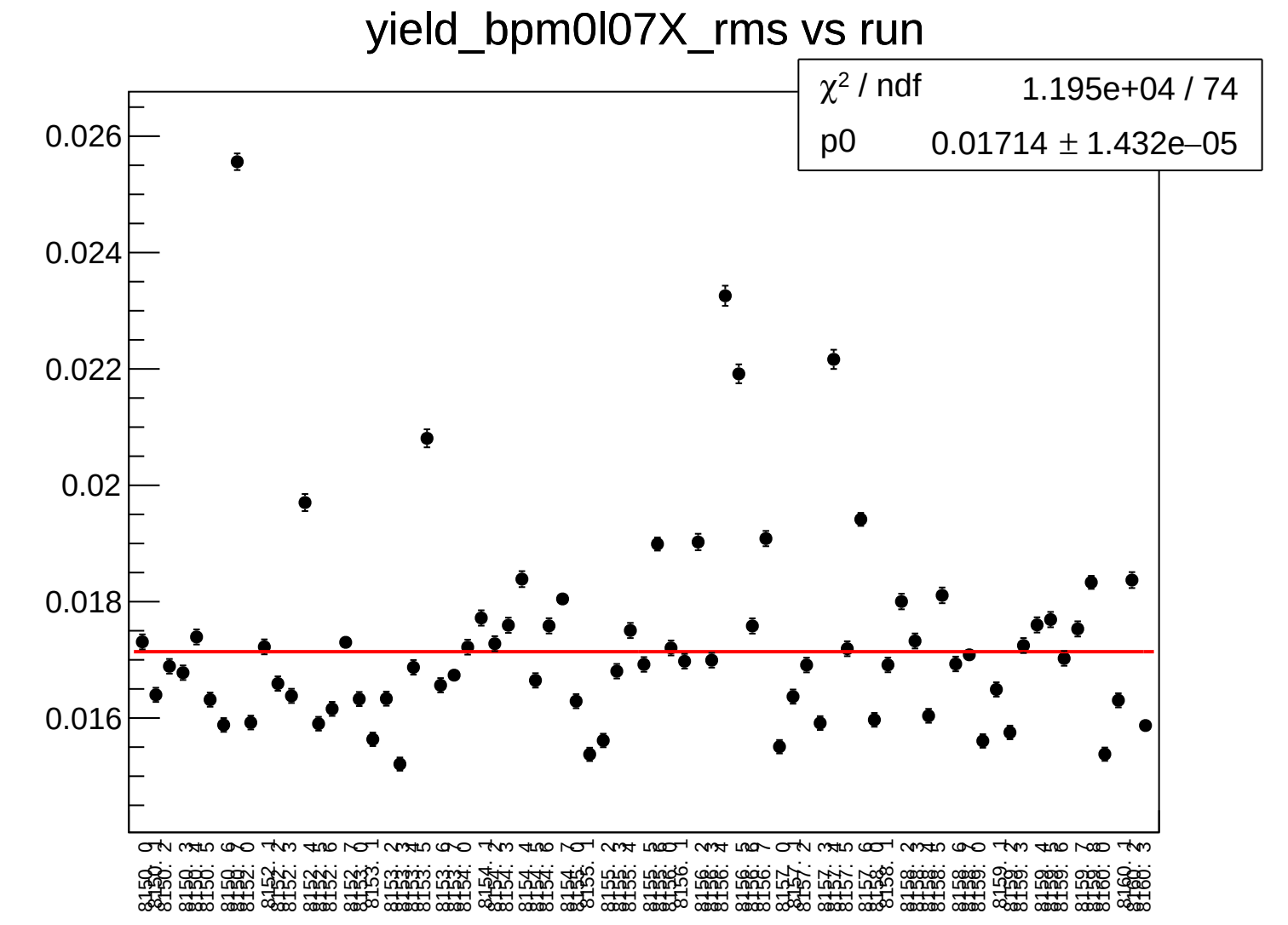

yield_bpm0l06Y_mean vs run
χ² / ndf 3.483e+04 / 74
p0 9.682 ± 7.148e−05
9.72
9.71
9.7
9.69
9.68
9.67
9.66
pull
Entries 75
Mean 1.588e+04
Std Dev 1.584e+04
60
40
20
0
−20
−40

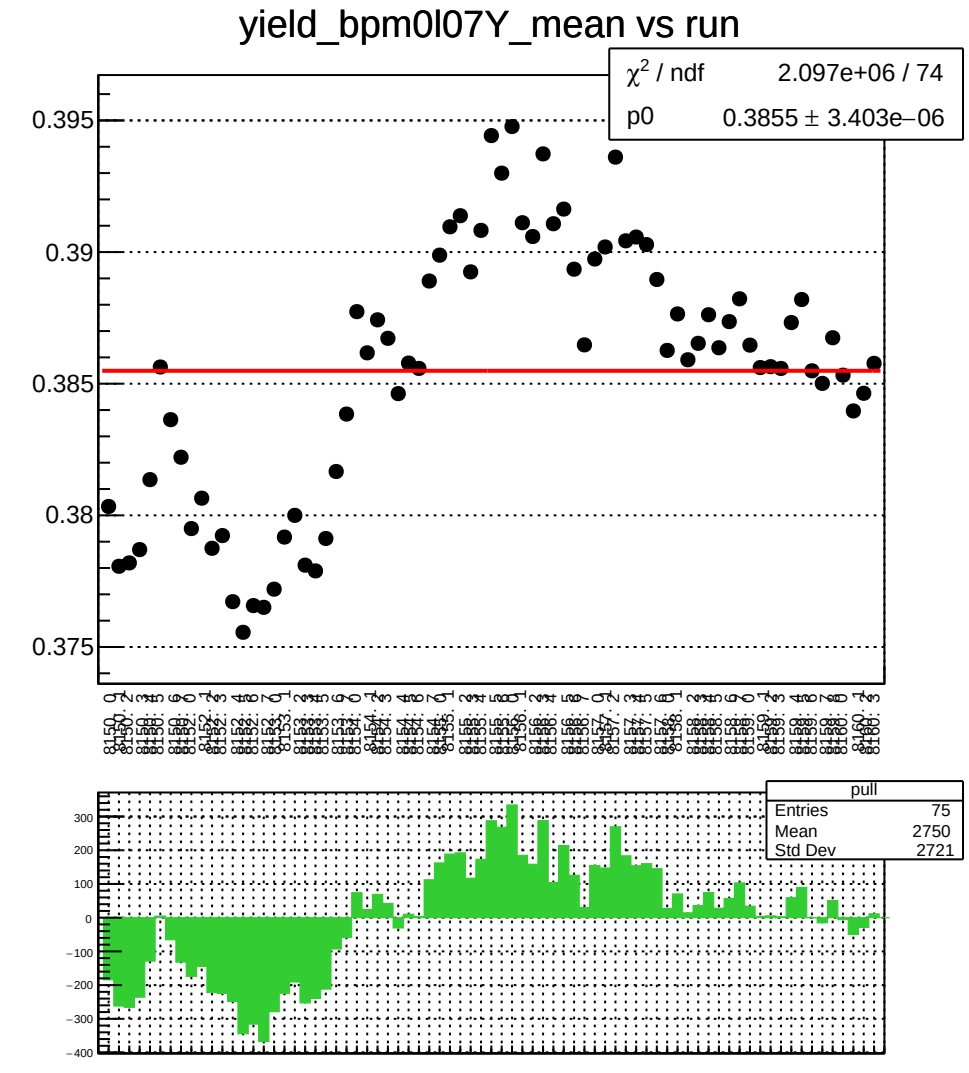

pull1D
Entries 75
Mean −1.162
Std Dev 4.521
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

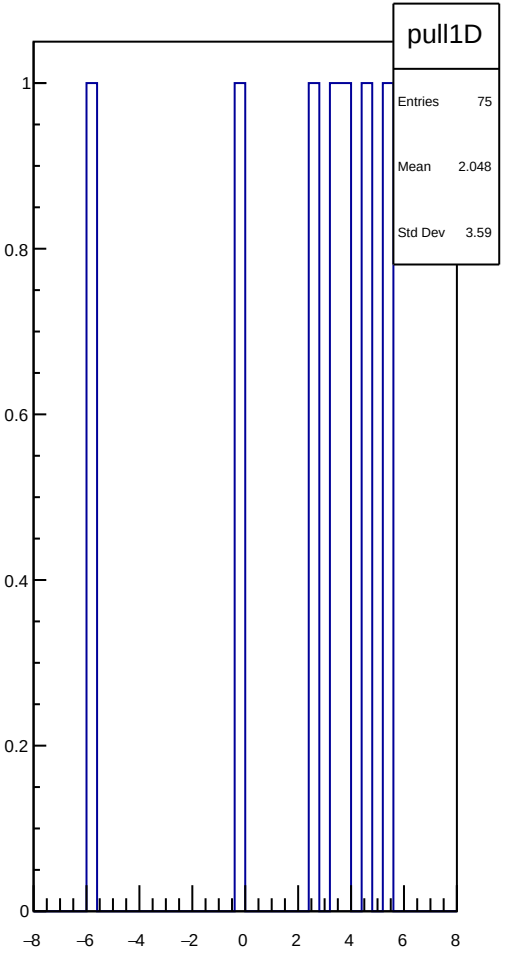

yield_bpm0l06Y_rms vs run
χ² / ndf 2099 / 74
p0 0.06071 ± 5.054e−05
0.066
0.064
0.062
0.06
0.058
0.056
0.054
0.052

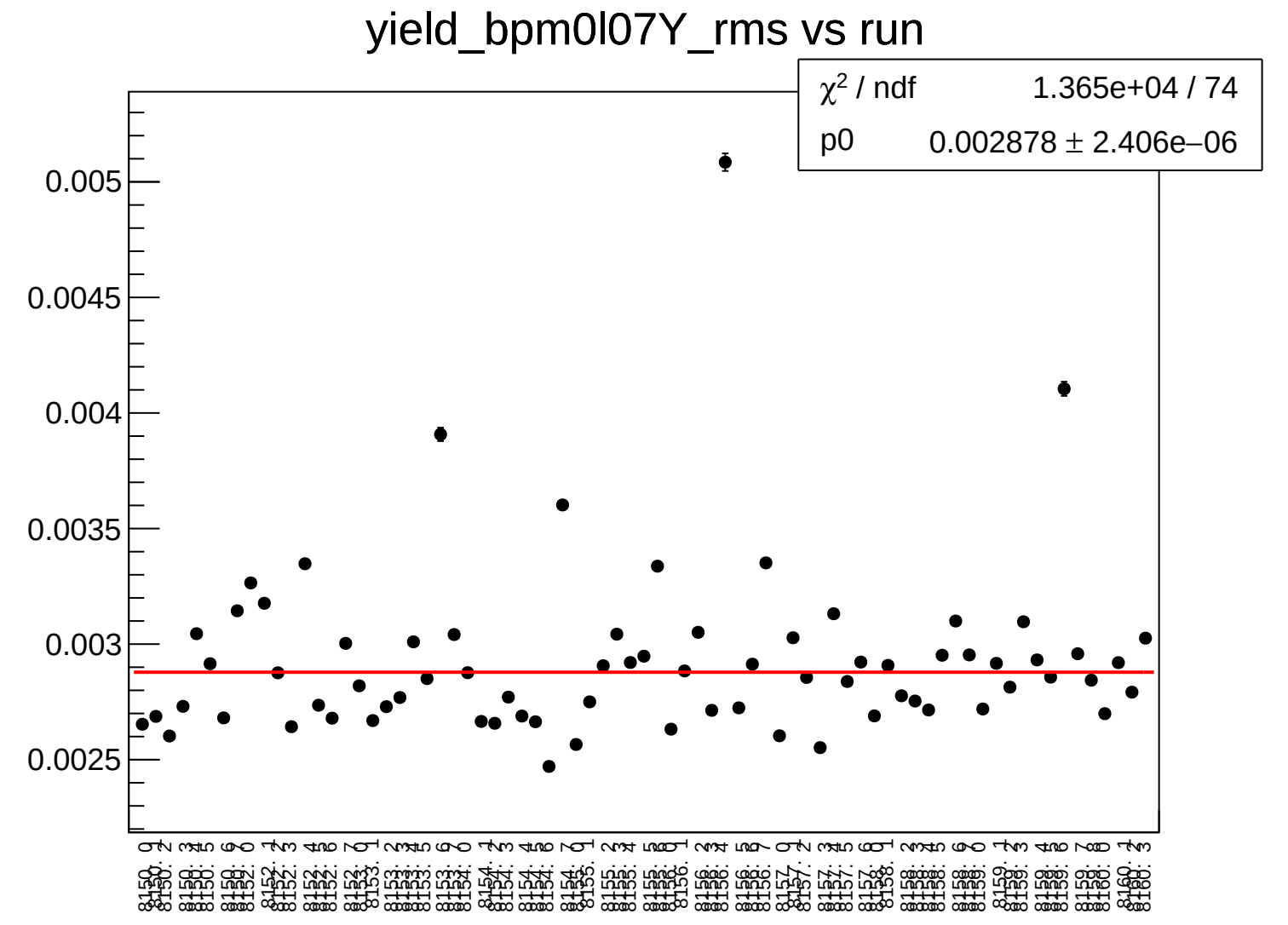

yield_bpm0l07X_mean vs run
χ² / ndf 4.122e+06 / 74
p0 0.249 ± 2.025e−05
pull
Entries 75
Mean −9.328e+04
Std Dev 9.332e+04

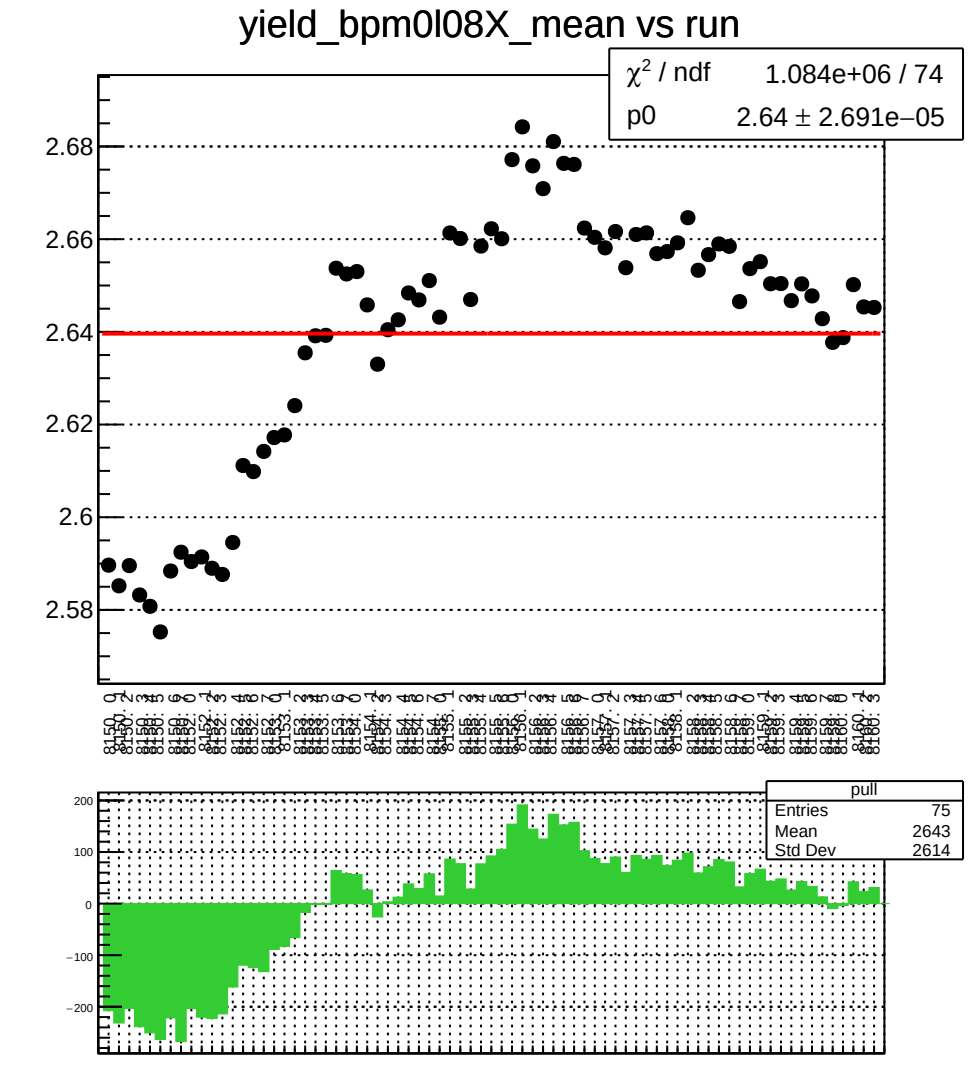

pull1D
Entries 75
Mean −3.654
Std Dev 0

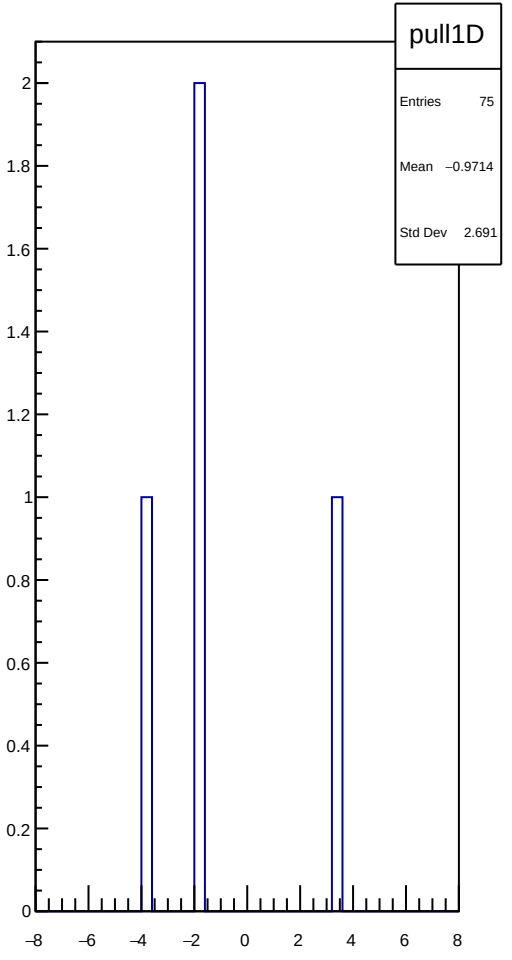

yield_bpm0l07X_rms vs run
χ² / ndf 1.195e+04 / 74
p0 0.01714 ± 1.432e–05
0.026
0.024
0.022
0.02
0.018
0.016

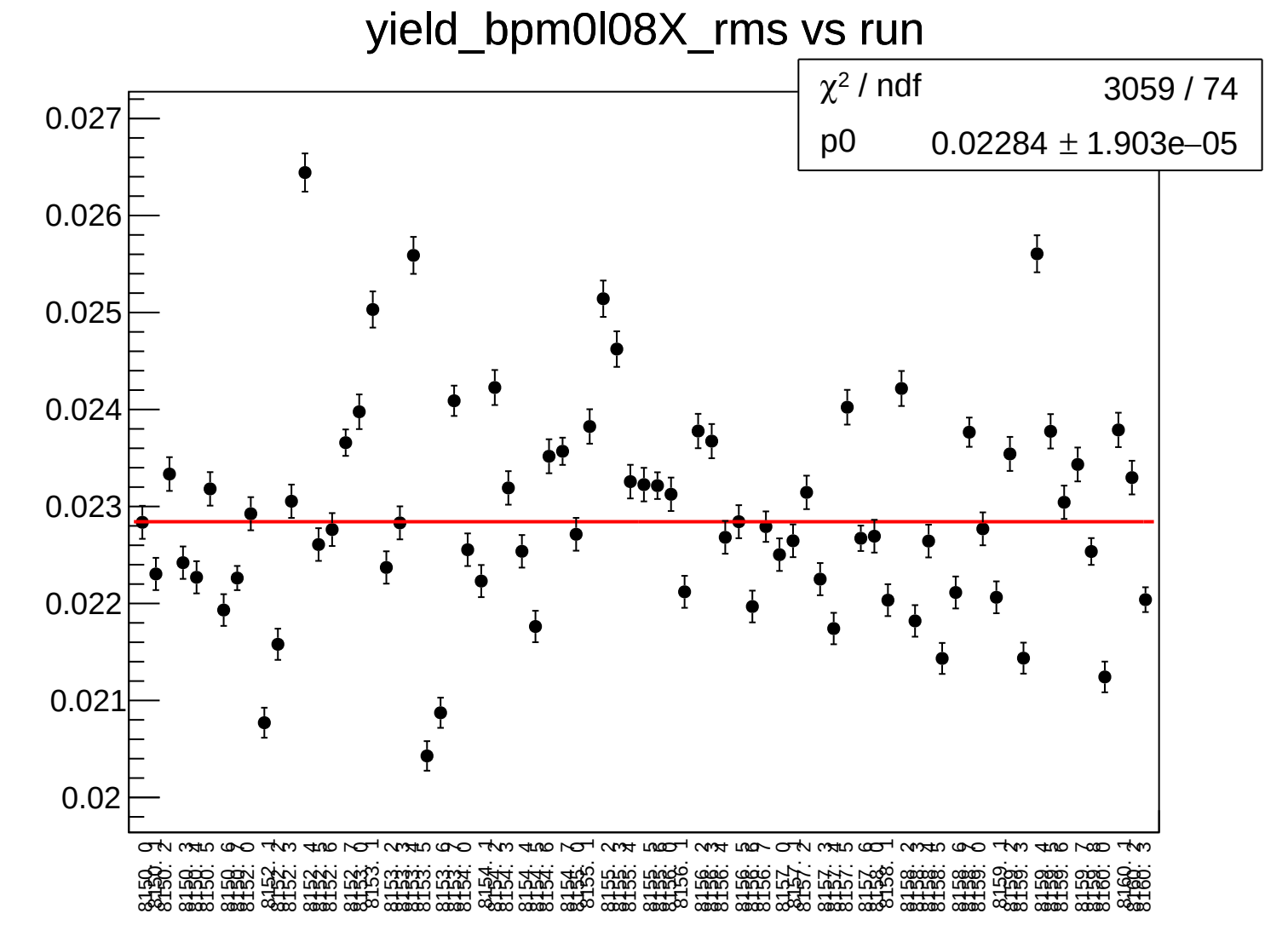

yield_bpm0l07Y_mean vs run
χ² / ndf 2.097e+06 / 74
p0 0.3855 ± 3.403e−06
0.395
0.39
0.385
0.38
0.375
pull
Entries 75
Mean 2750
Std Dev 2721
300
200
100
0
−100
−200
−300
−400

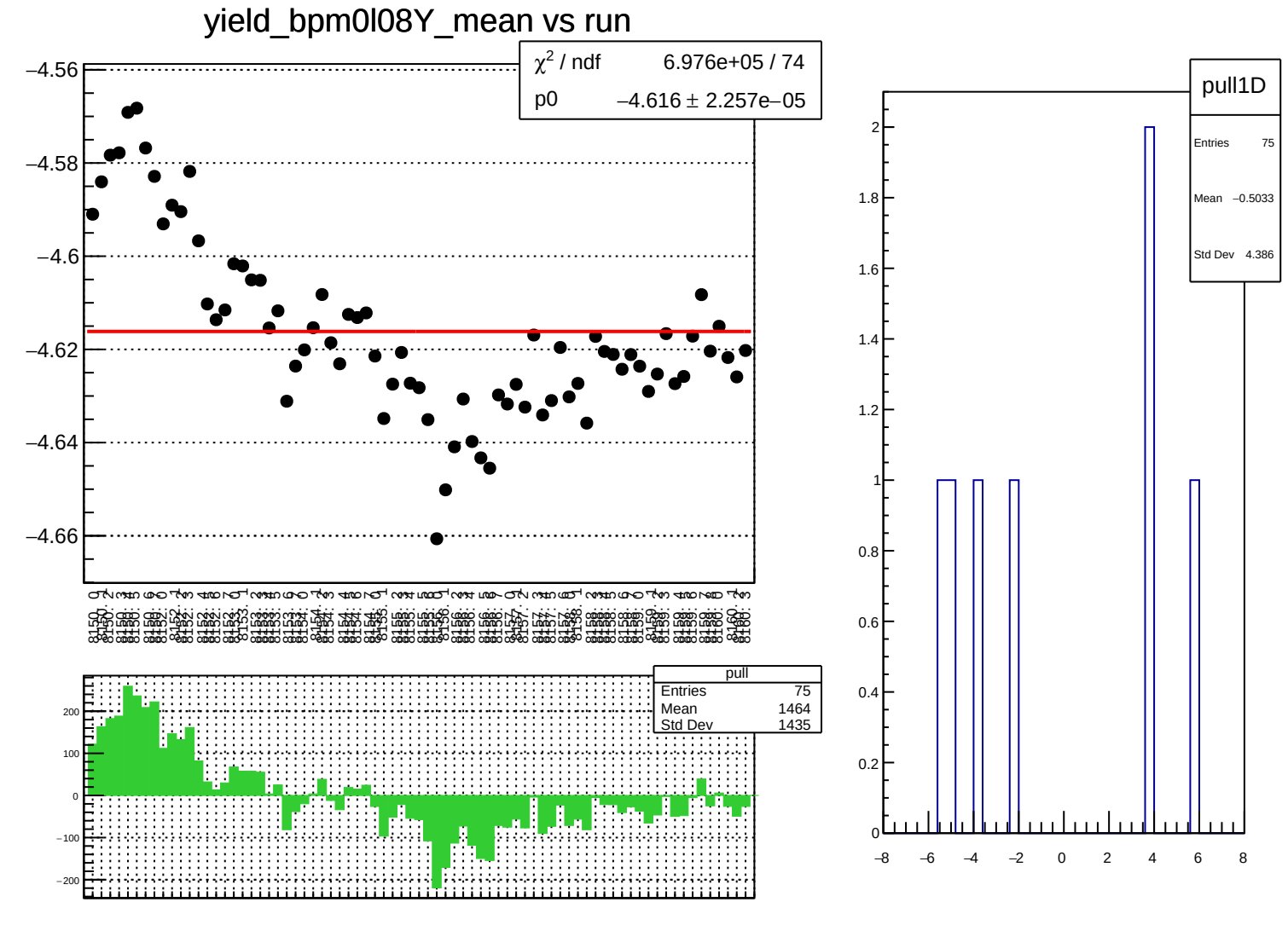

pull1D
Entries 75
Mean 2.048
Std Dev 3.59
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

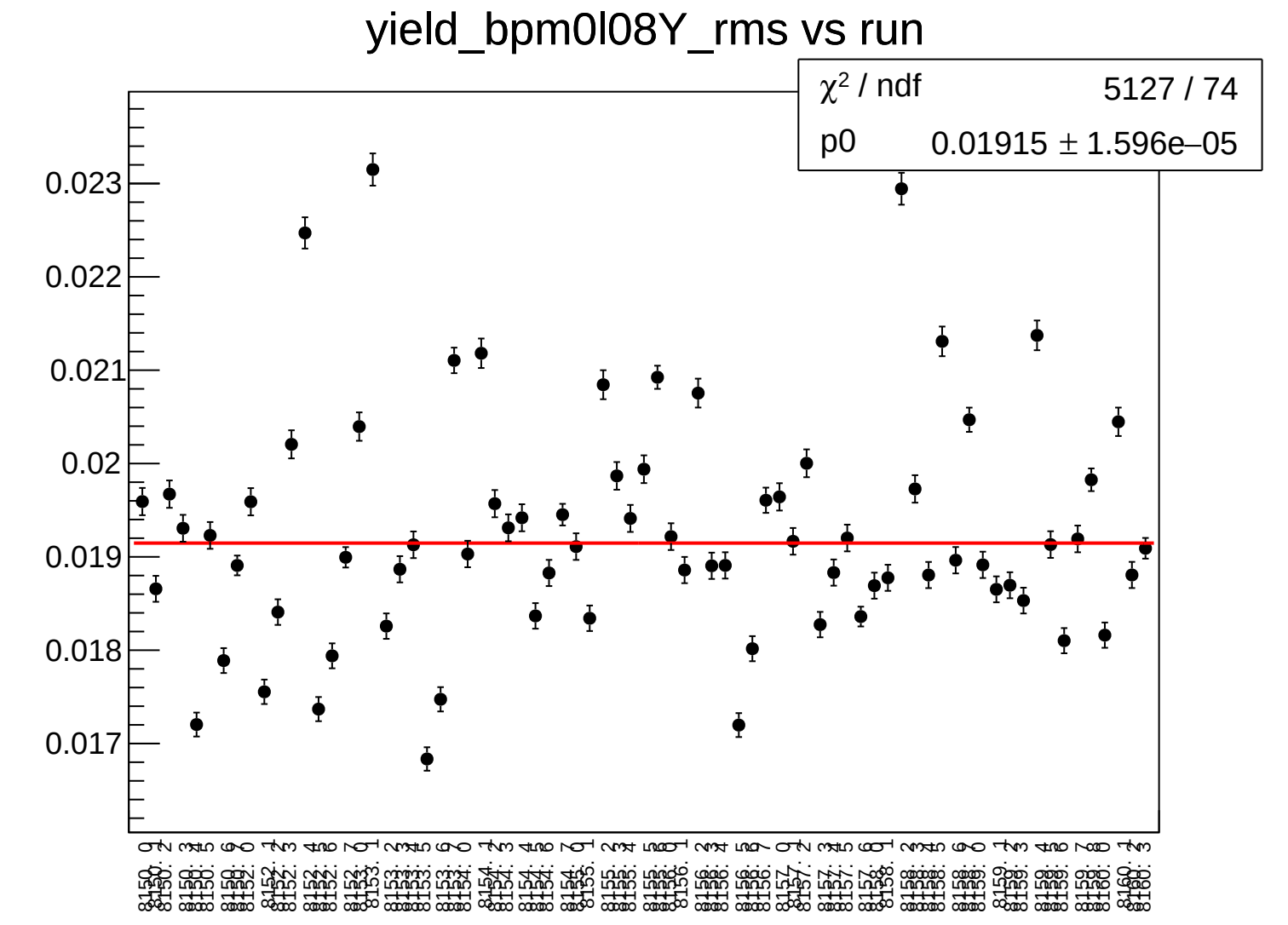

yield_bpm0l07Y_rms vs run
χ^2 / ndf 1.365e+04 / 74
p0 0.002878 ± 2.406e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

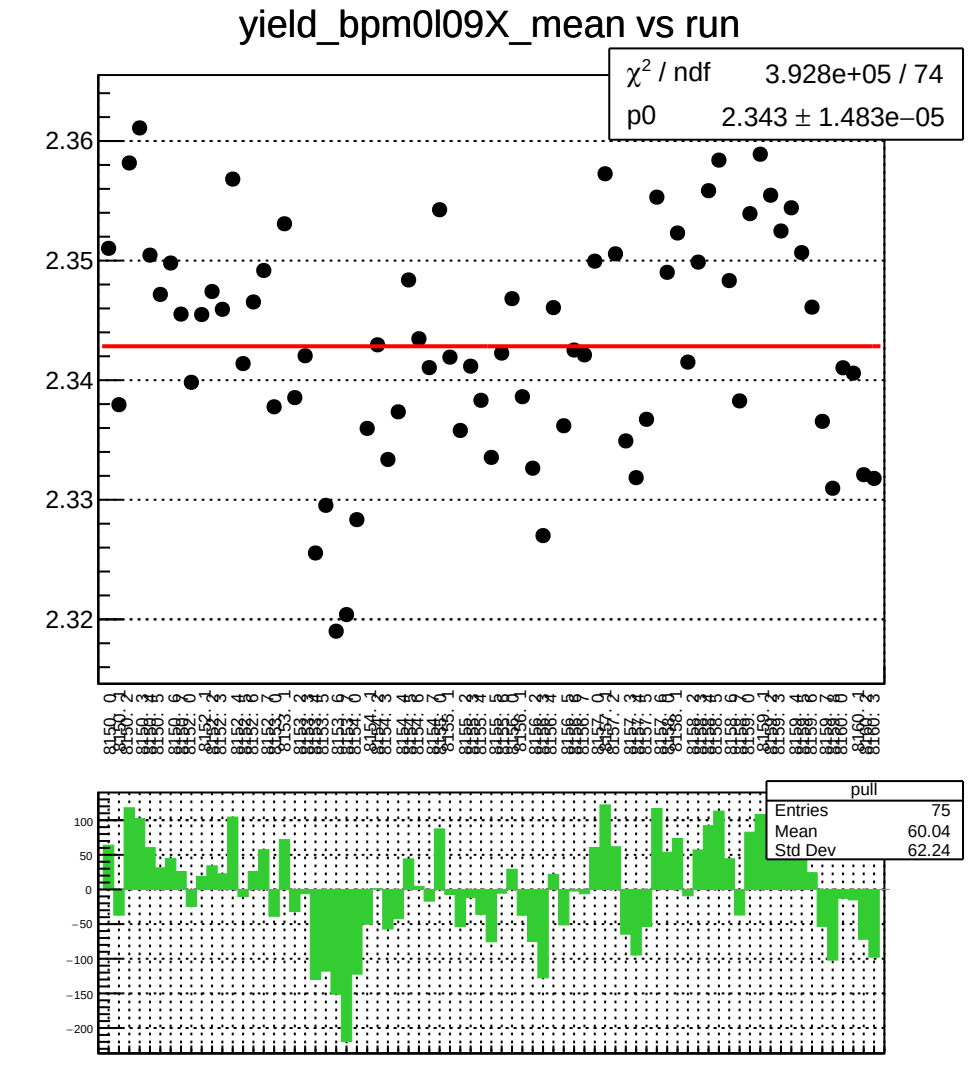

yield_bpm0l08X_mean vs run
χ² / ndf 1.084e+06 / 74
p0 2.64 ± 2.691e−05
2.68
2.66
2.64
2.62
2.6
2.58
pull
Entries 75
Mean 2643
Std Dev 2614
200
100
0
−100
−200

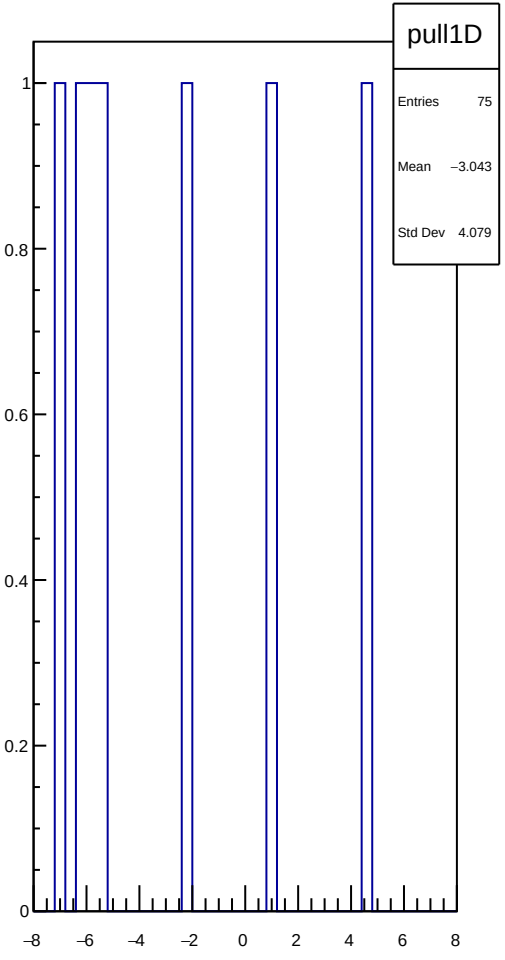

pull1D
Entries 75
Mean −0.9714
Std Dev 2.691
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

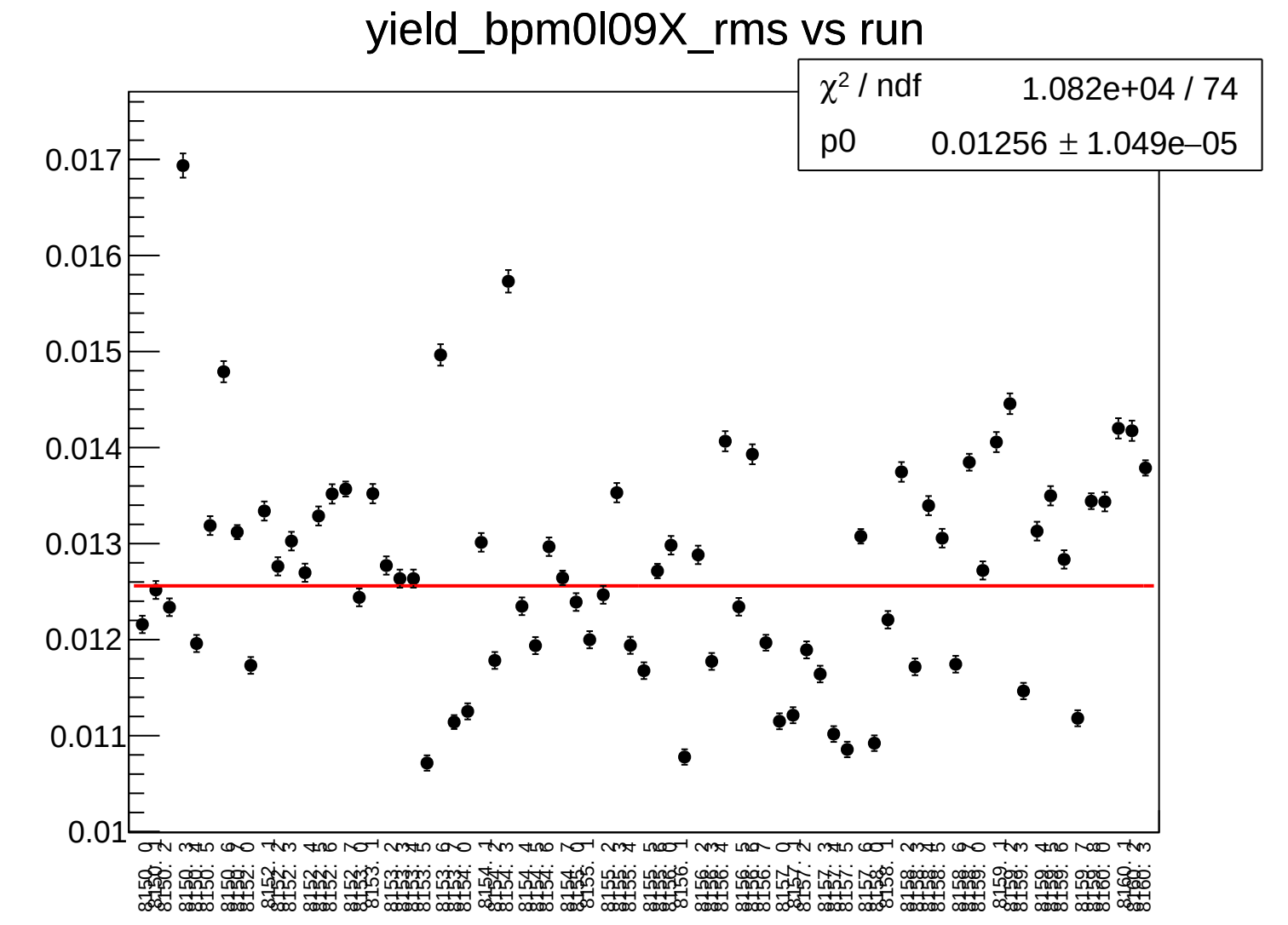

yield_bpm0l08X_rms vs run
χ² / ndf 3059 / 74
p0 0.02284 ± 1.903e–05
0.027
0.026
0.025
0.024
0.023
0.022
0.021
0.02

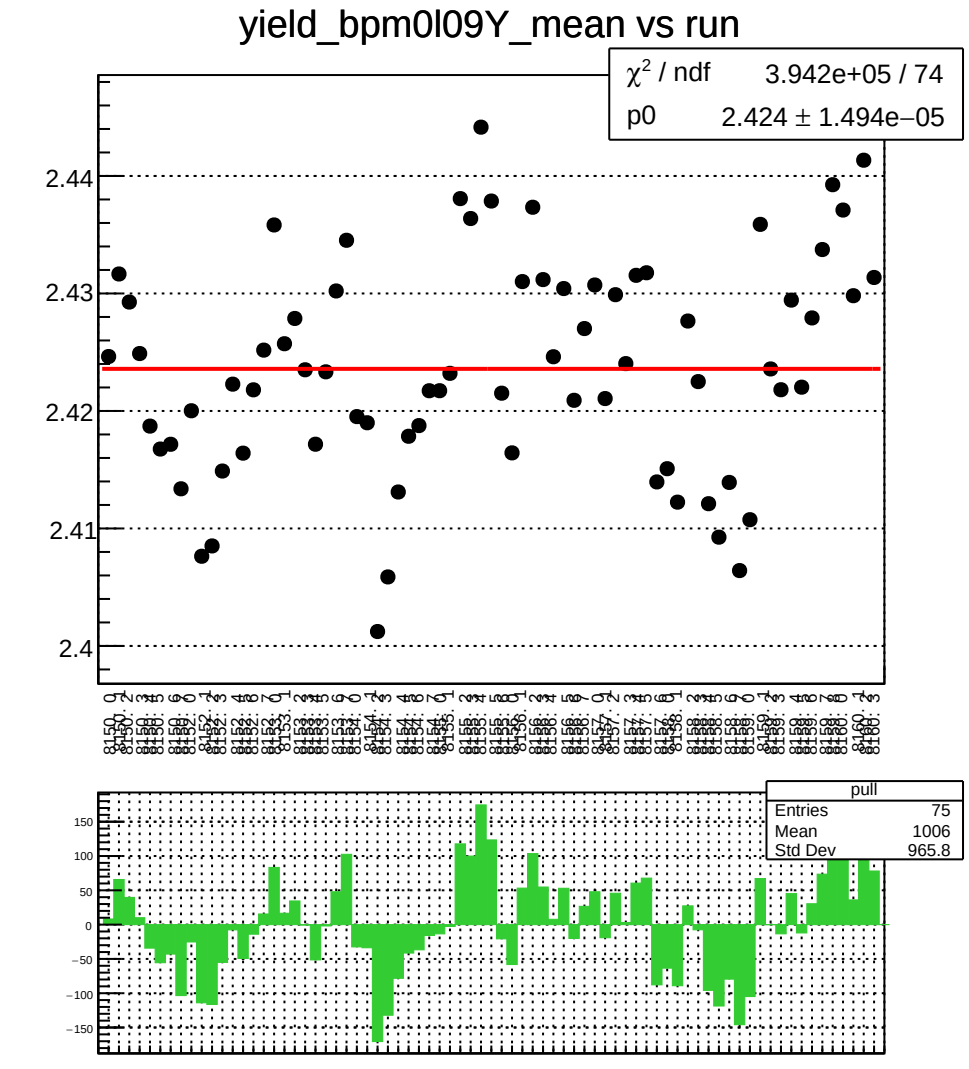

yield_bpm0l08Y_mean vs run
χ² / ndf 6.976e+05 / 74
p0 −4.616 ± 2.257e−05
−4.56
−4.58
−4.6
−4.62
−4.64
−4.66
pull
Entries 75
Mean 1464
Std Dev 1435
200
100
0
−100
−200
pull1D
Entries 75
Mean −0.5033
Std Dev 4.386
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

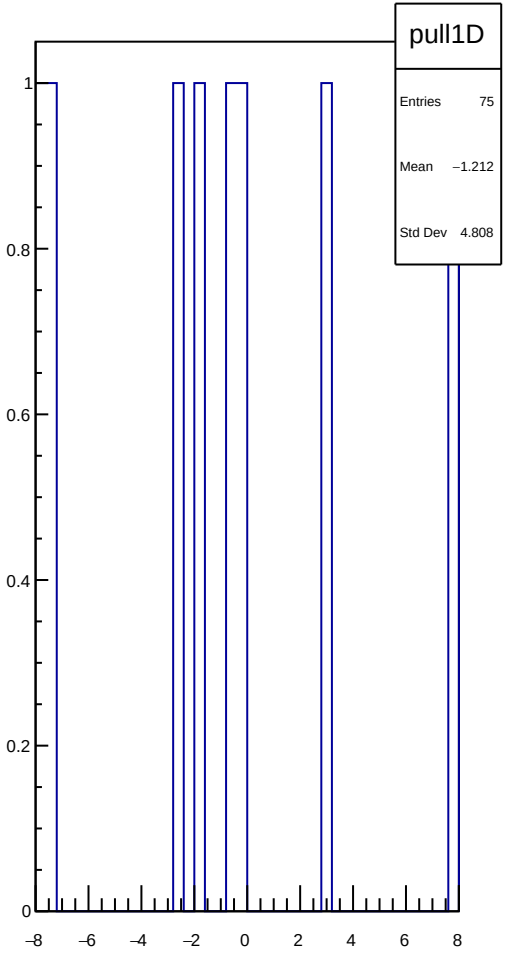

yield_bpm0l08Y_rms vs run
χ² / ndf 5127 / 74
p0 0.01915 ± 1.596e−05
0.023
0.022
0.021
0.02
0.019
0.018
0.017

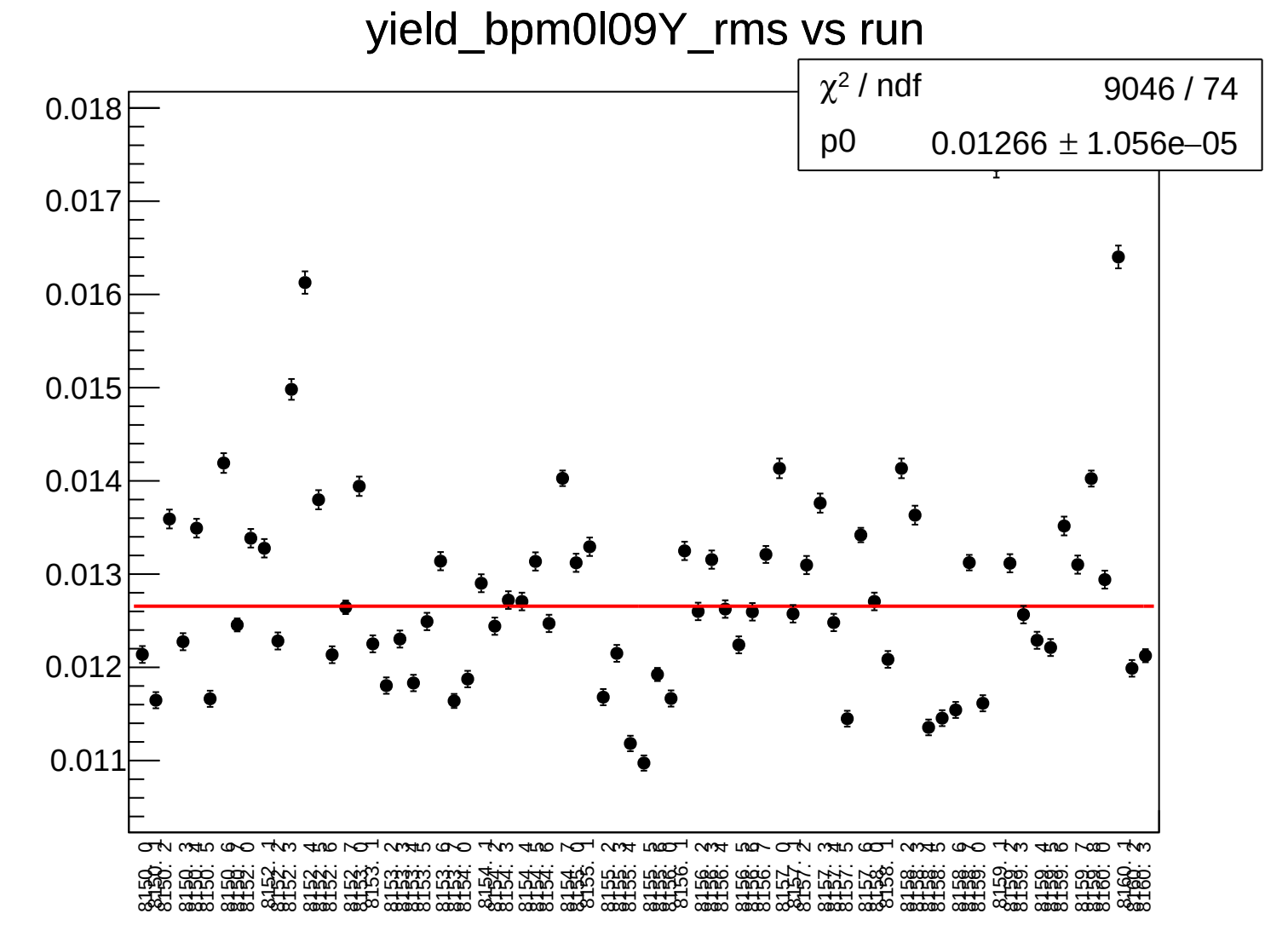

yield_bpm0l09X_mean vs run
χ² / ndf 3.928e+05 / 74
p0 2.343 ± 1.483e−05
2.36
2.35
2.34
2.33
2.32
pull
Entries 75
Mean 60.04
Std Dev 62.24
100
50
0
−50
−100
−150
−200

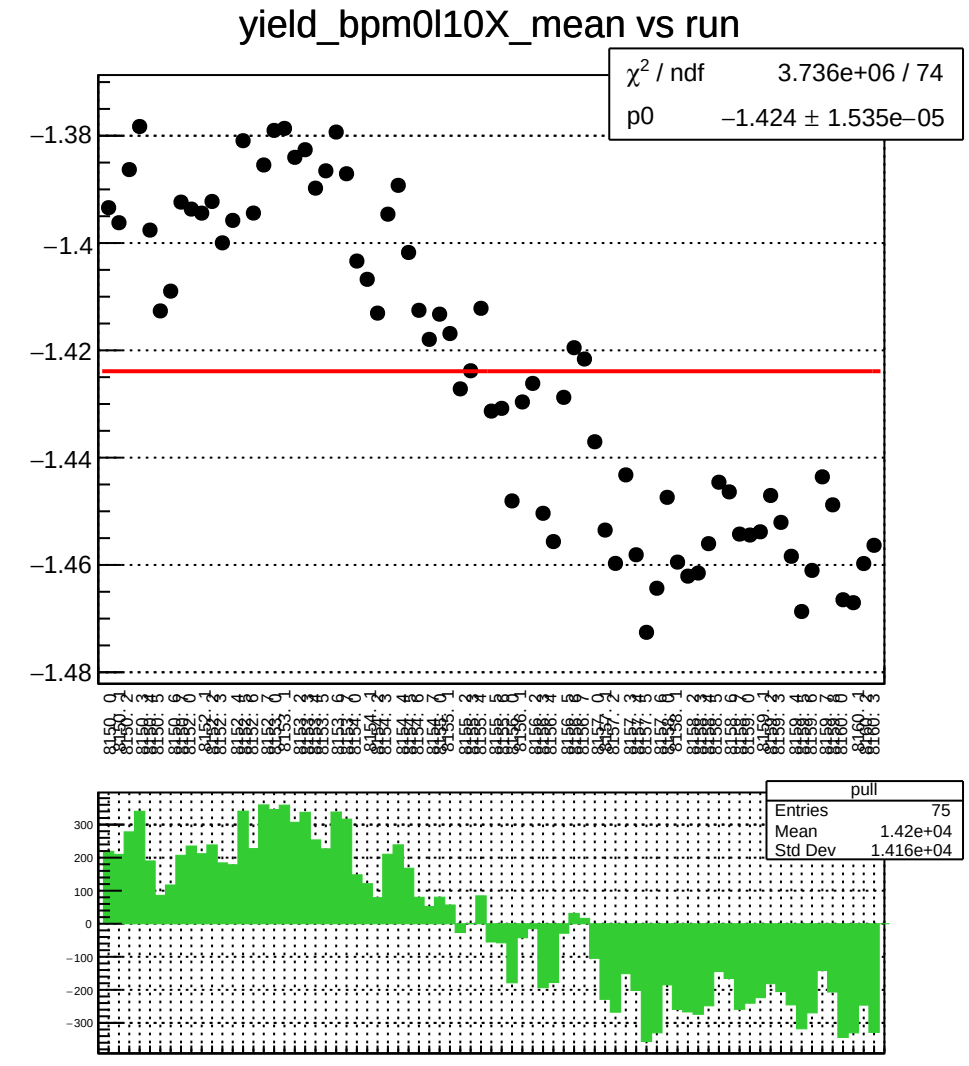

pull1D
Entries 75
Mean −3.043
Std Dev 4.079
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

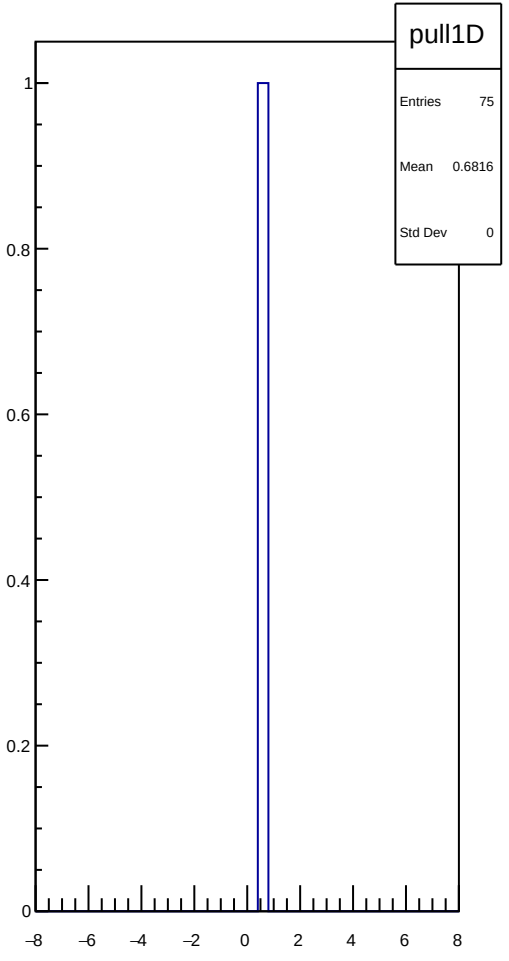

yield_bpm0l09X_rms vs run
χ² / ndf 1.082e+04 / 74
p0 0.01256 ± 1.049e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

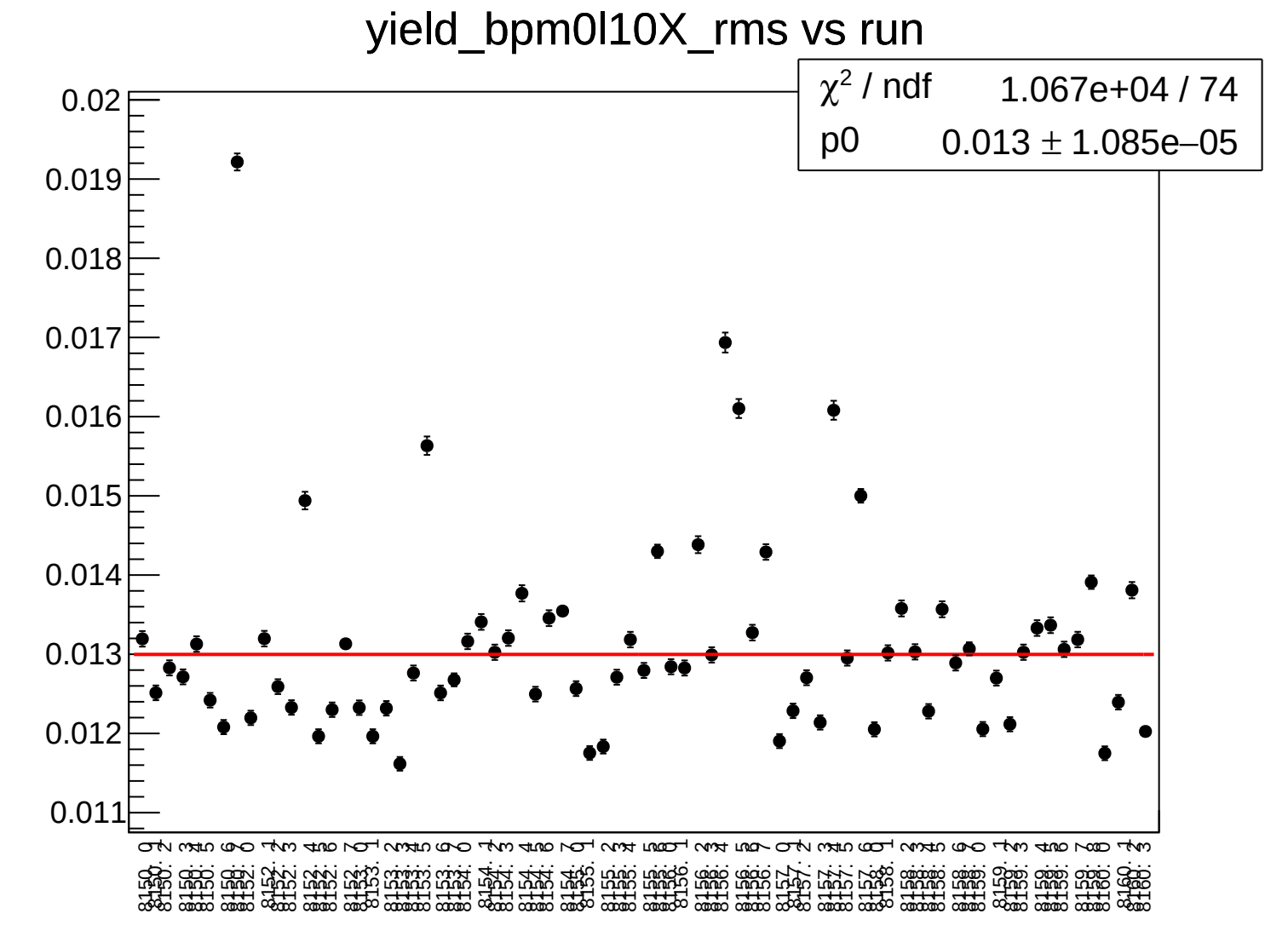

yield_bpm0l09Y_mean vs run
χ² / ndf 3.942e+05 / 74
p0 2.424 ± 1.494e−05
2.44
2.43
2.42
2.41
2.4
pull
Entries 75
Mean 1006
Std Dev 965.8
150
100
50
0
−50
−100
−150

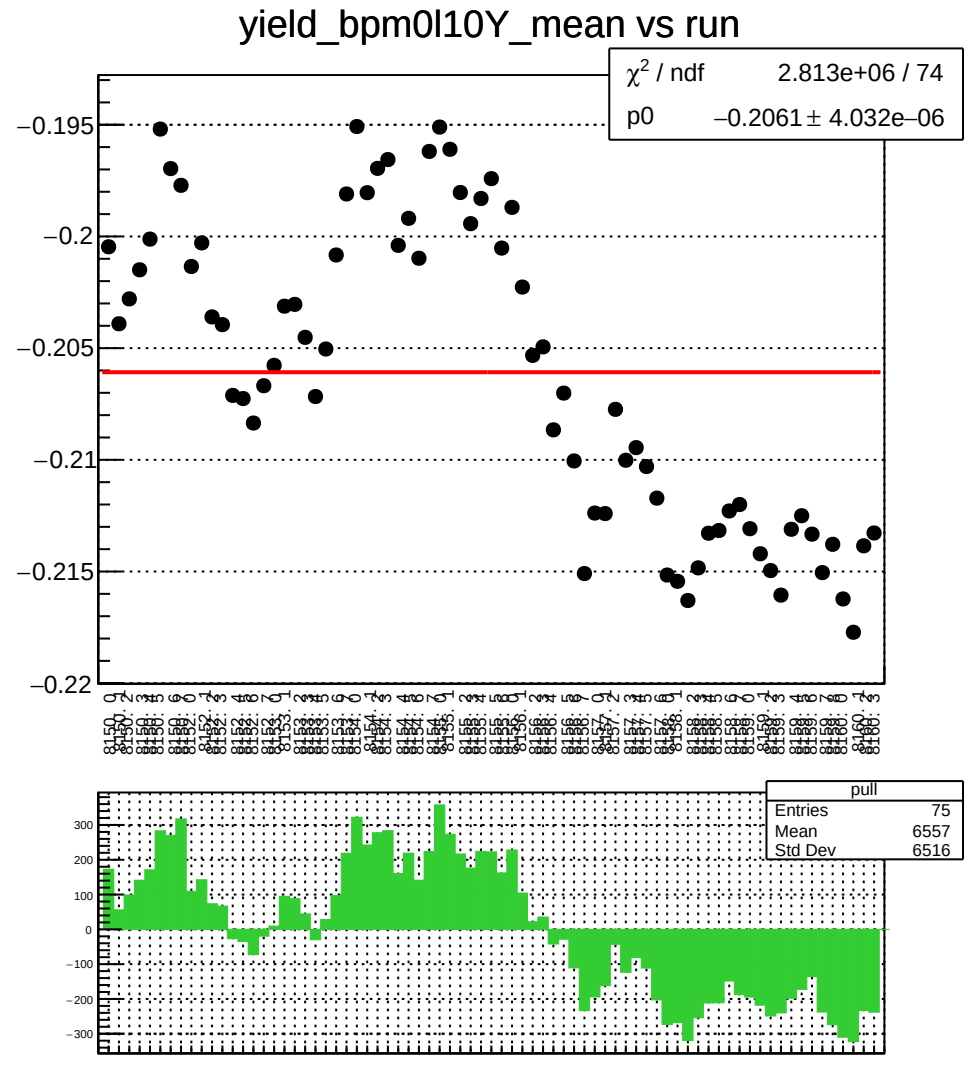

pull1D
Entries 75
Mean −1.212
Std Dev 4.808
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

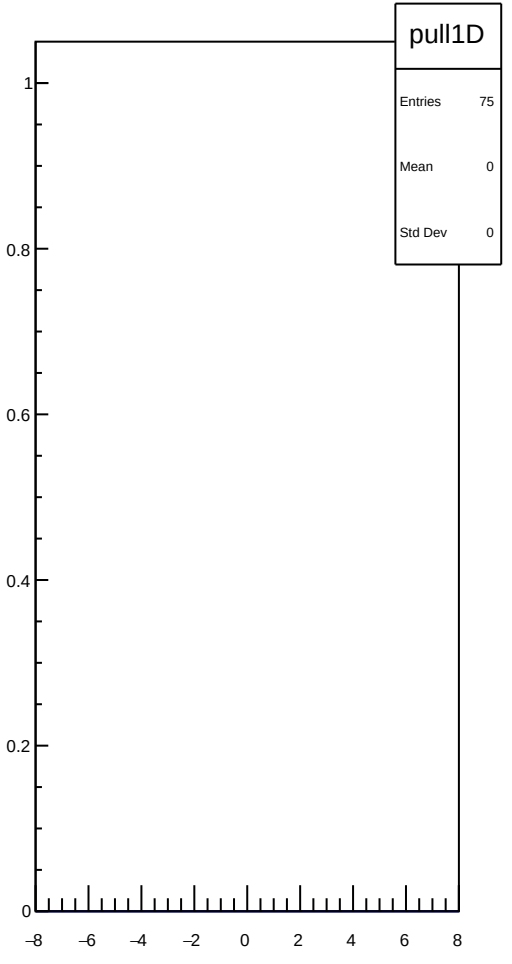

yield_bpm0l09Y_rms vs run
χ² / ndf 9046 / 74
p0 0.01266 ± 1.056e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

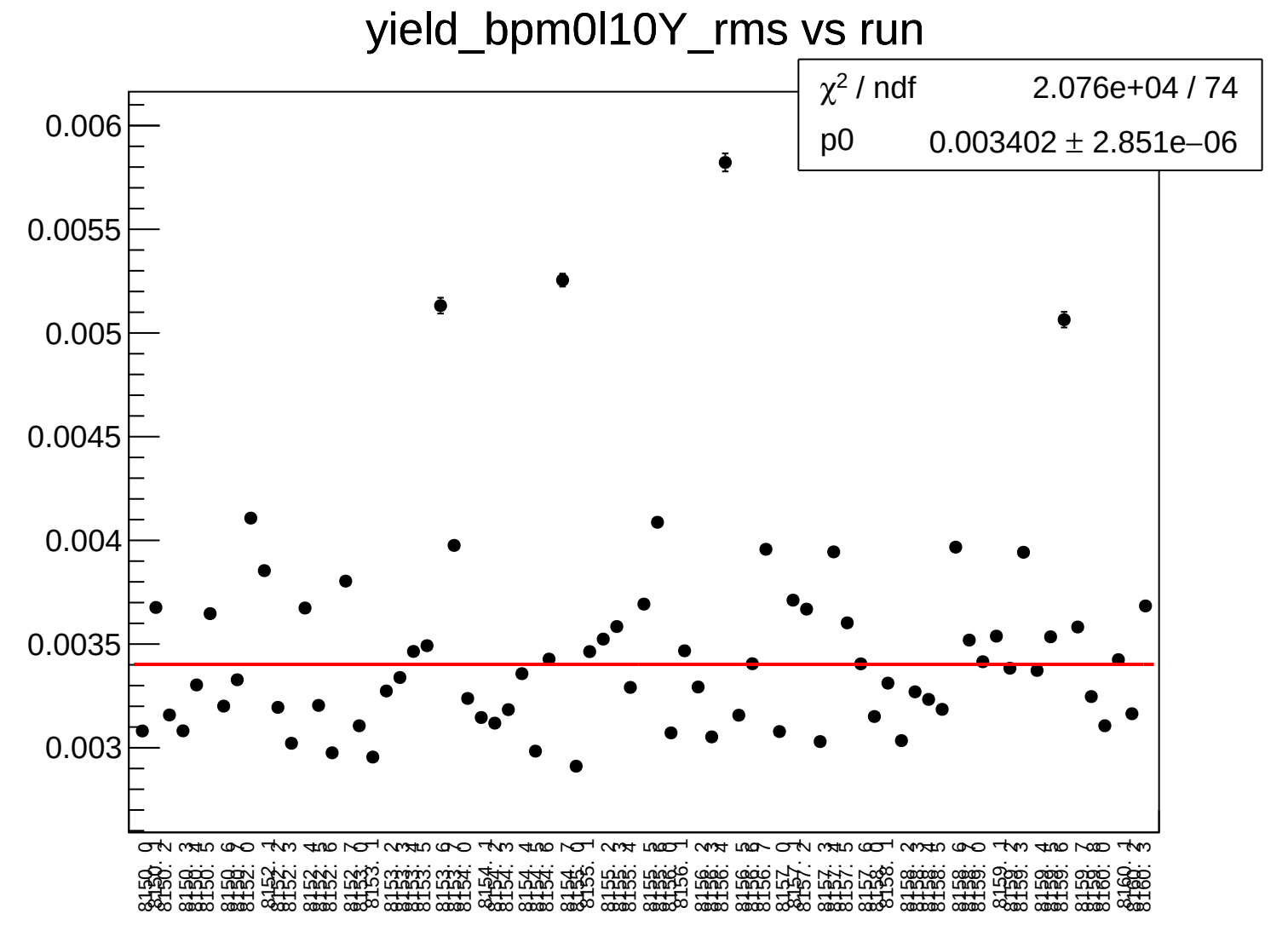

yield_bpm0l10X_mean vs run
χ² / ndf 3.736e+06 / 74
p0 −1.424 ± 1.535e−05
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
pull
Entries 75
Mean 1.42e+04
Std Dev 1.416e+04
300
200
100
0
−100
−200
−300

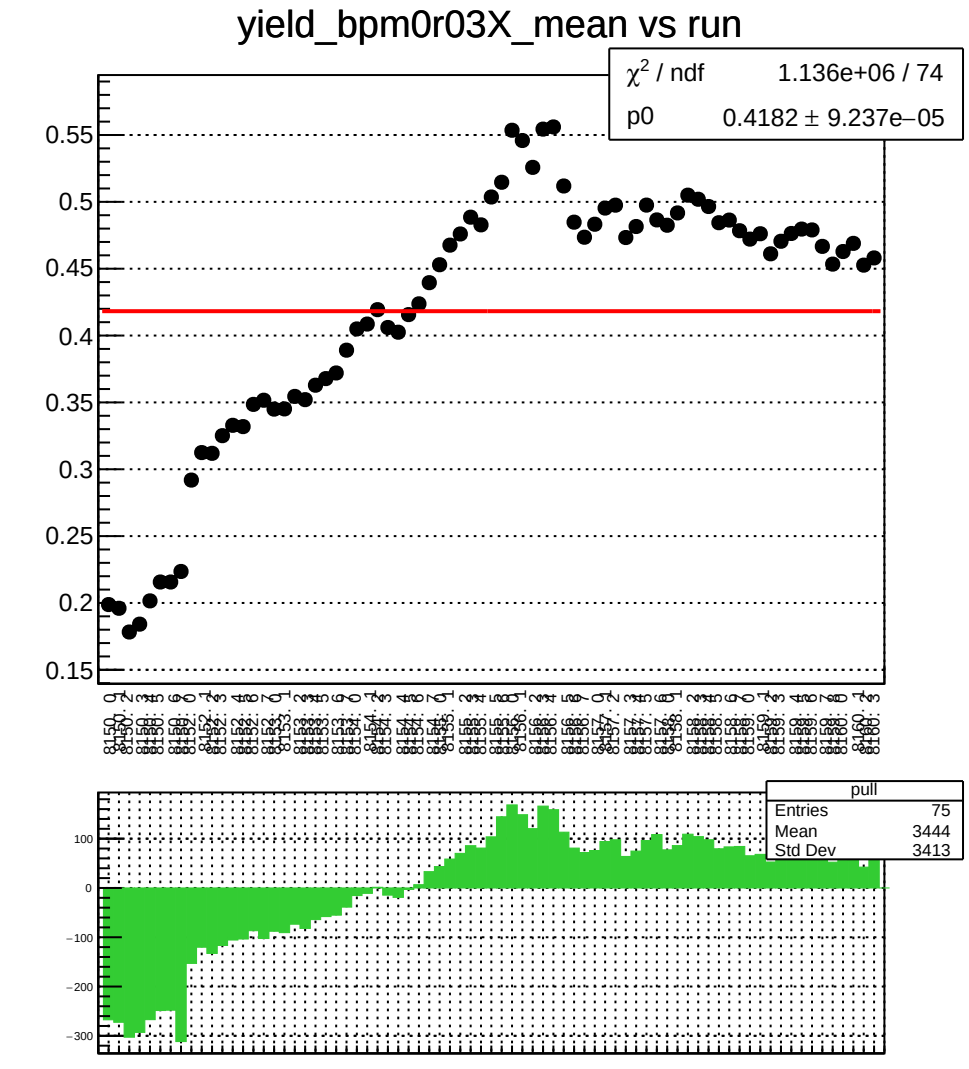

pull1D
Entries 75
Mean 0.6816
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

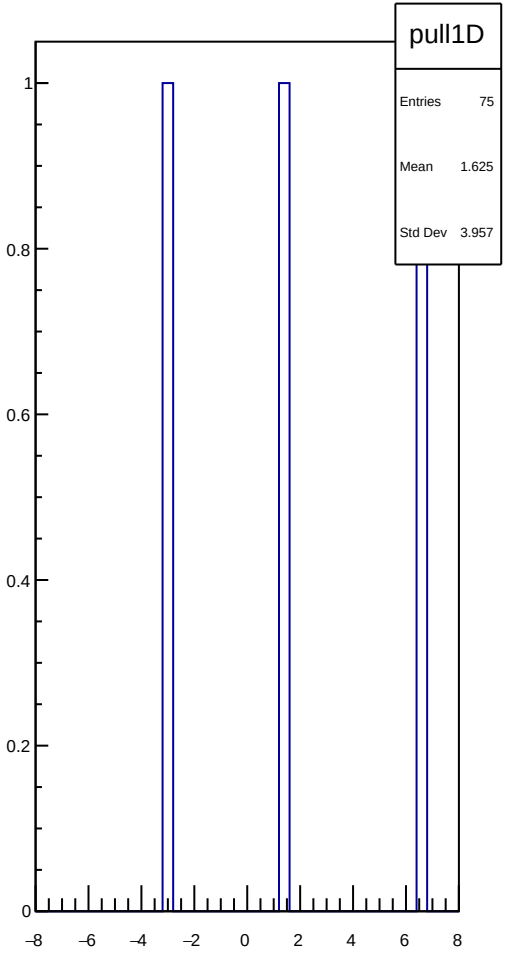

yield_bpm0l10X_rms vs run
χ^2 / ndf 1.067e+04 / 74
p0 0.013 ± 1.085e−05
0.02
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

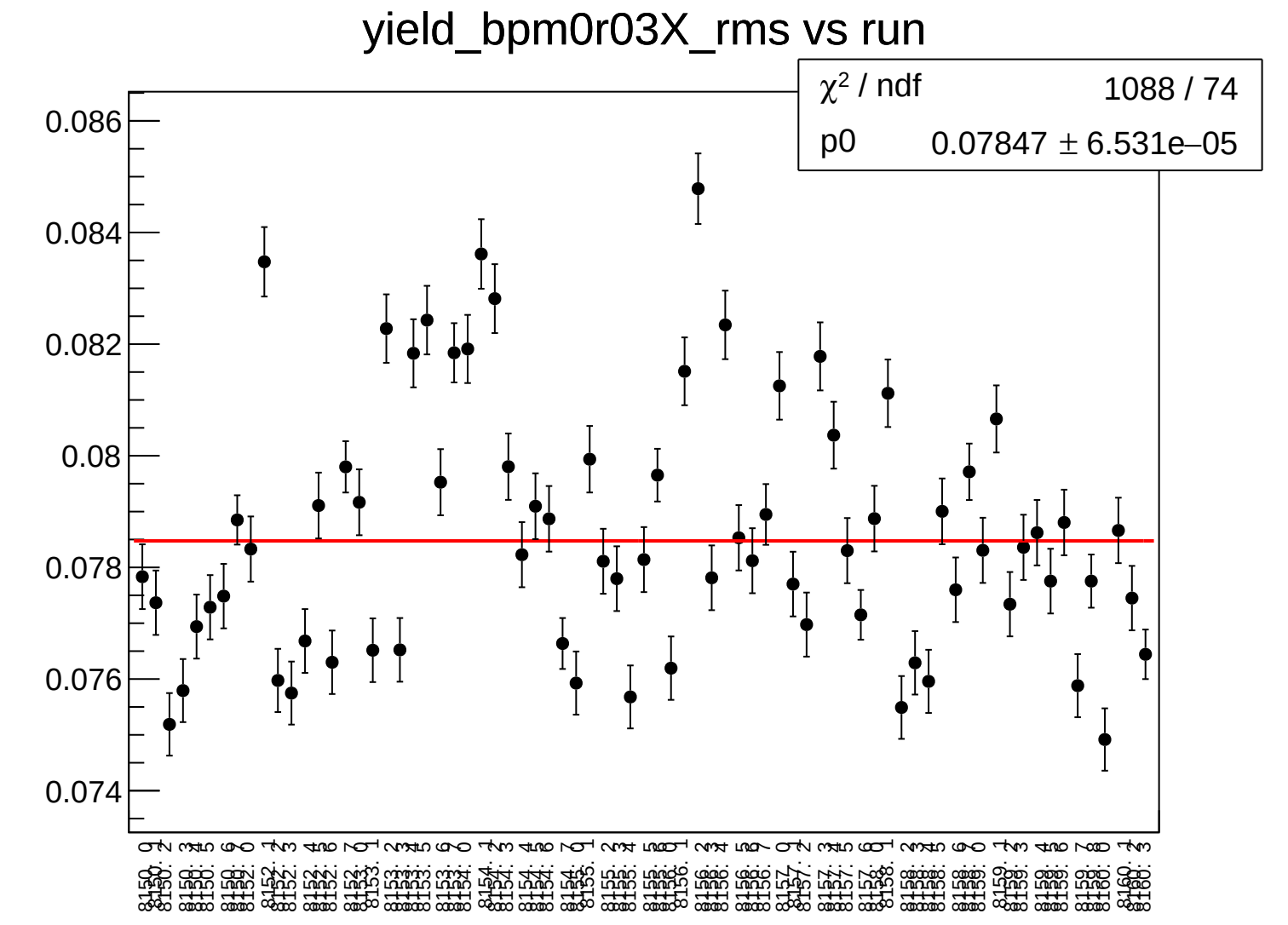

yield_bpm0l10Y_mean vs run
χ² / ndf 2.813e+06 / 74
p0 −0.2061 ± 4.032e−06
−0.195
−0.2
−0.205
−0.21
−0.215
−0.22
pull
Entries 75
Mean 6557
Std Dev 6516
300
200
100
0
−100
−200
−300

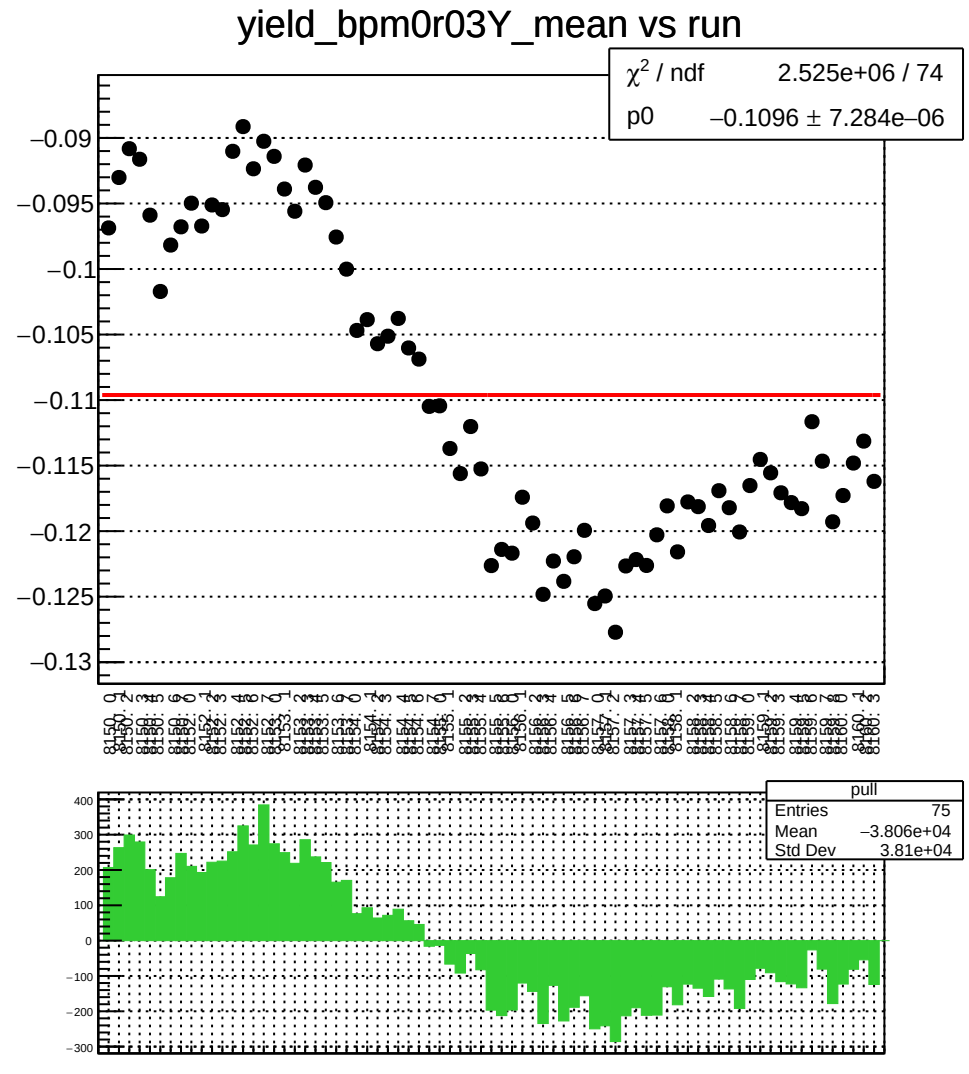

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

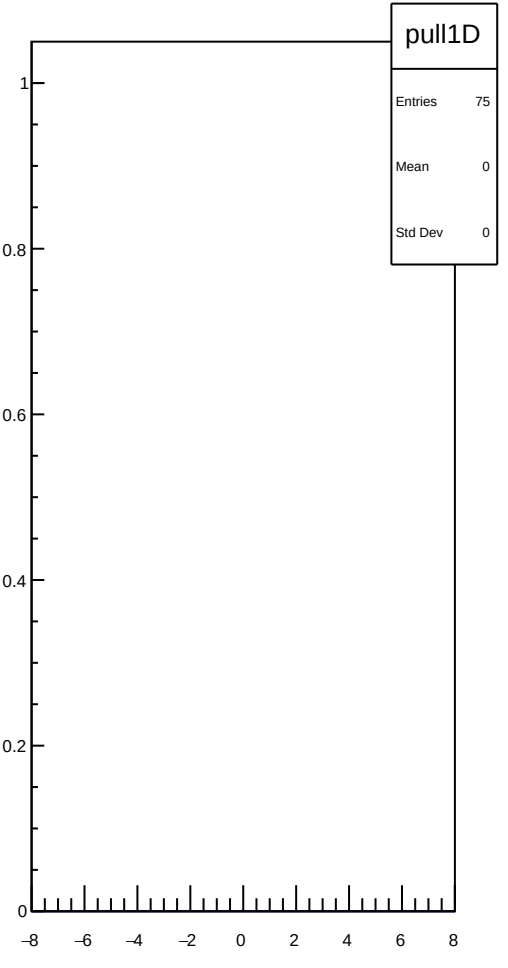

yield_bpm0l10Y_rms vs run
χ² / ndf 2.076e+04 / 74
p0 0.003402 ± 2.851e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

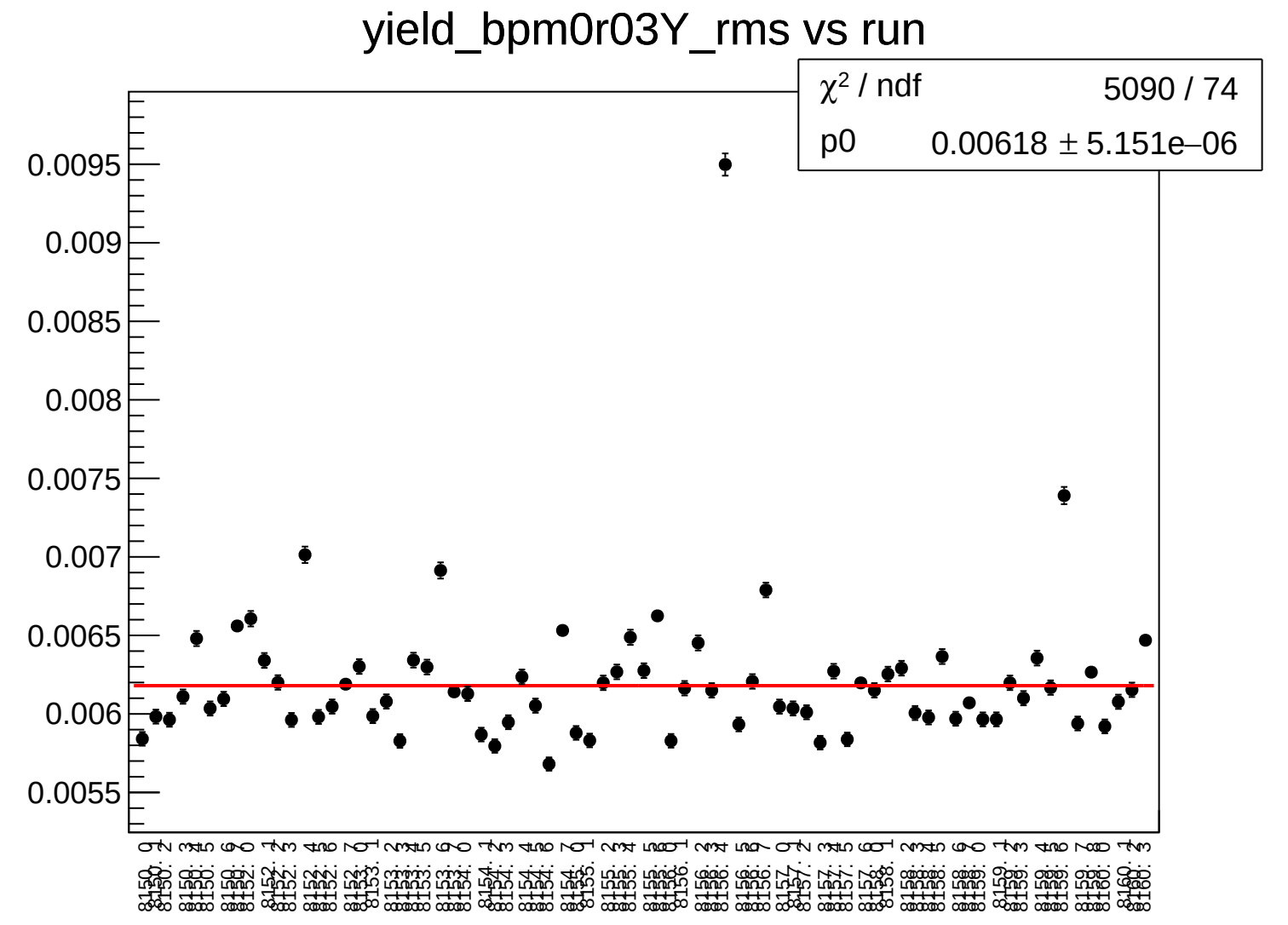

yield_bpm0r03X_mean vs run
χ² / ndf 1.136e+06 / 74
p0 0.4182 ± 9.237e−05
pull
Entries 75
Mean 3444
Std Dev 3413

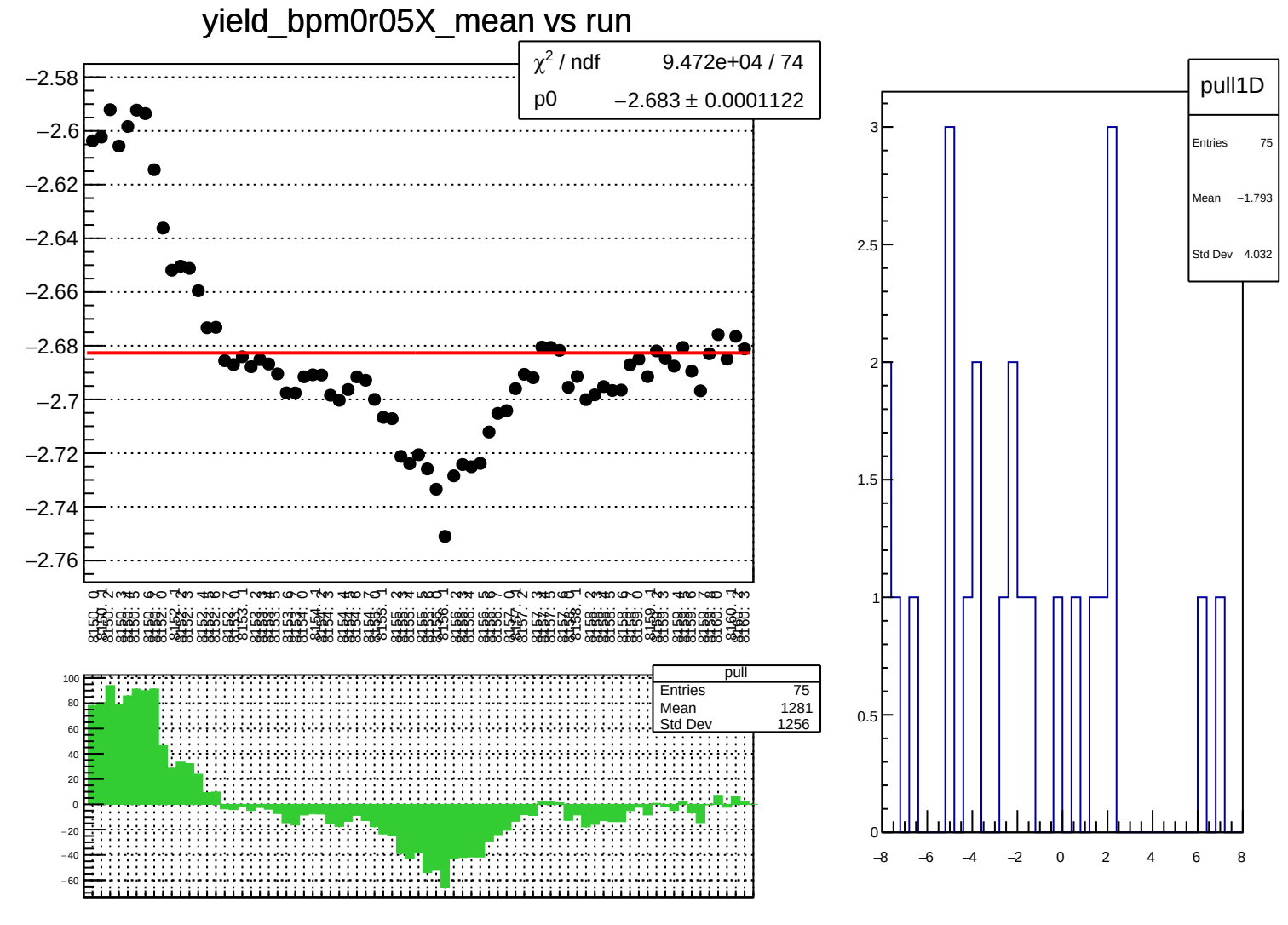

pull1D
Entries 75
Mean 1.625
Std Dev 3.957

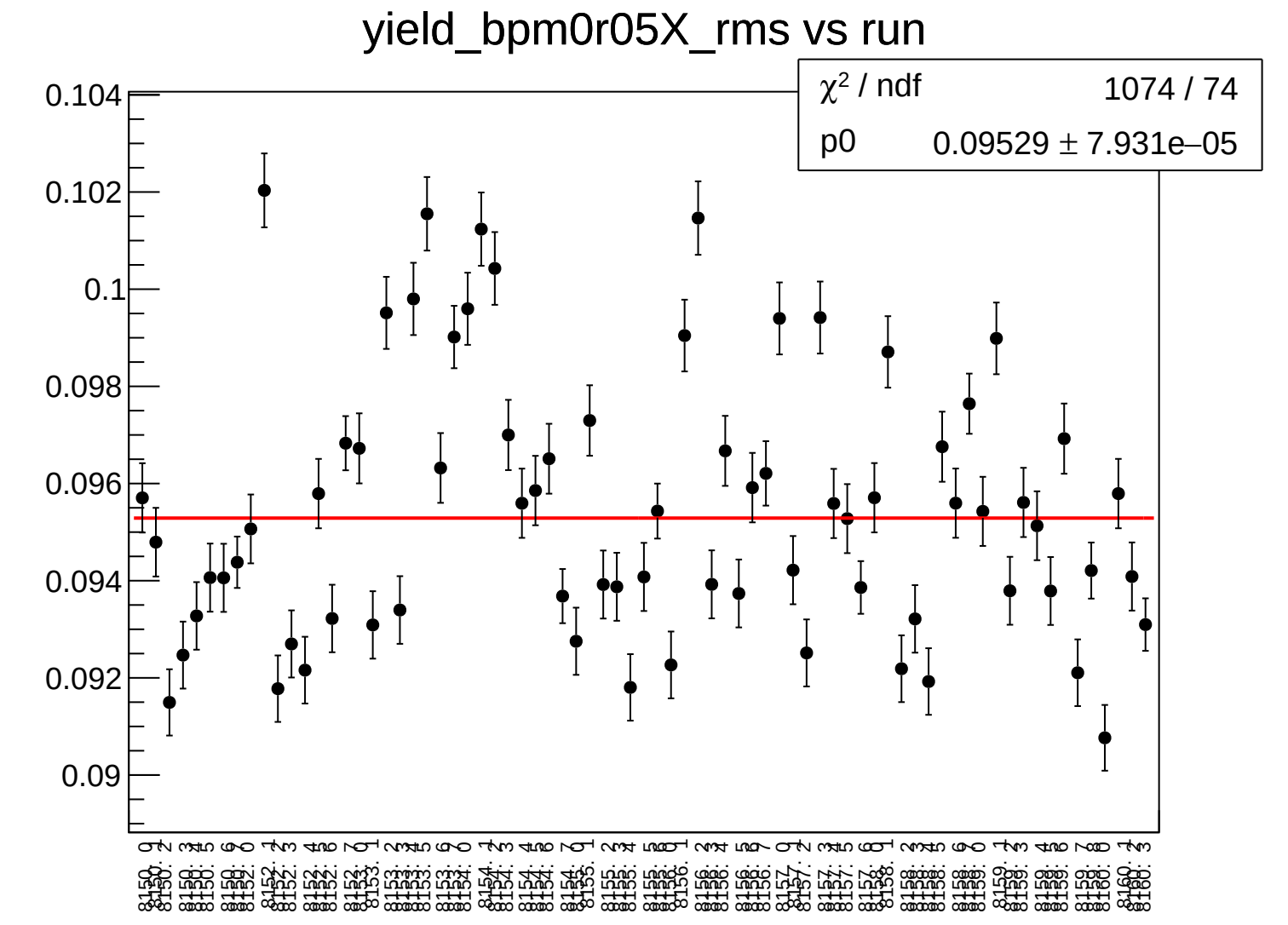

yield_bpm0r03X_rms vs run
χ² / ndf 1088 / 74
p0 0.07847 ± 6.531e–05
0.086
0.084
0.082
0.08
0.078
0.076
0.074

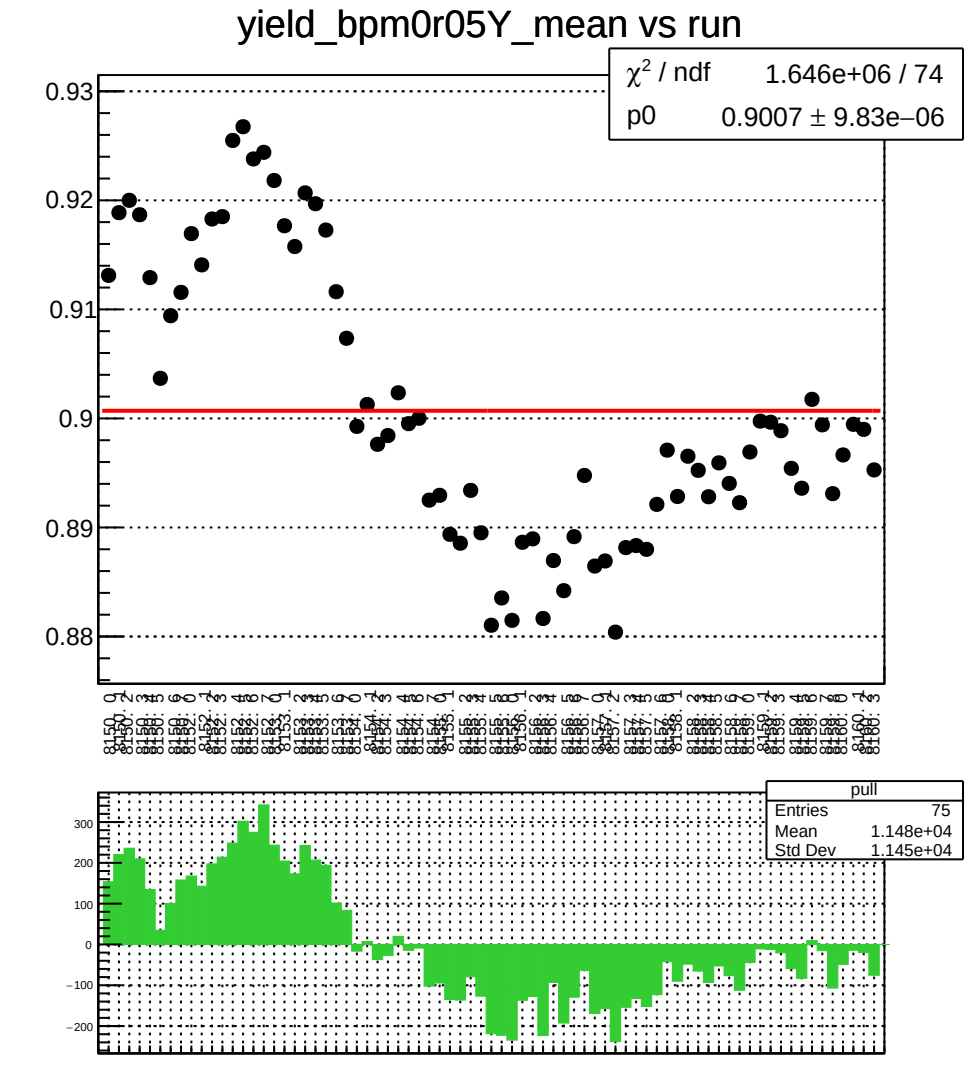

yield_bpm0r03Y_mean vs run
χ² / ndf 2.525e+06 / 74
p0 −0.1096 ± 7.284e−06
−0.09
−0.095
−0.1
−0.105
−0.11
−0.115
−0.12
−0.125
−0.13
pull
Entries 75
Mean −3.806e+04
Std Dev 3.81e+04
400
300
200
100
0
−100
−200
−300

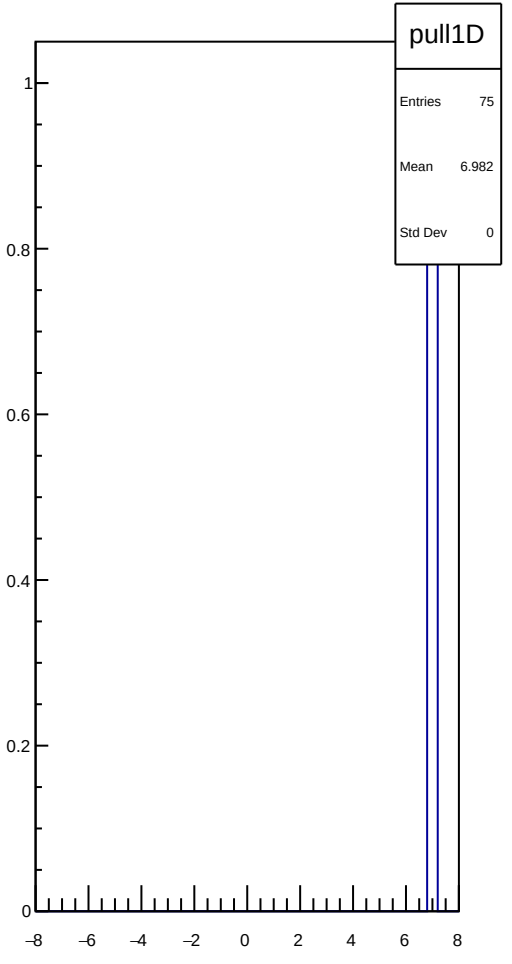

pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

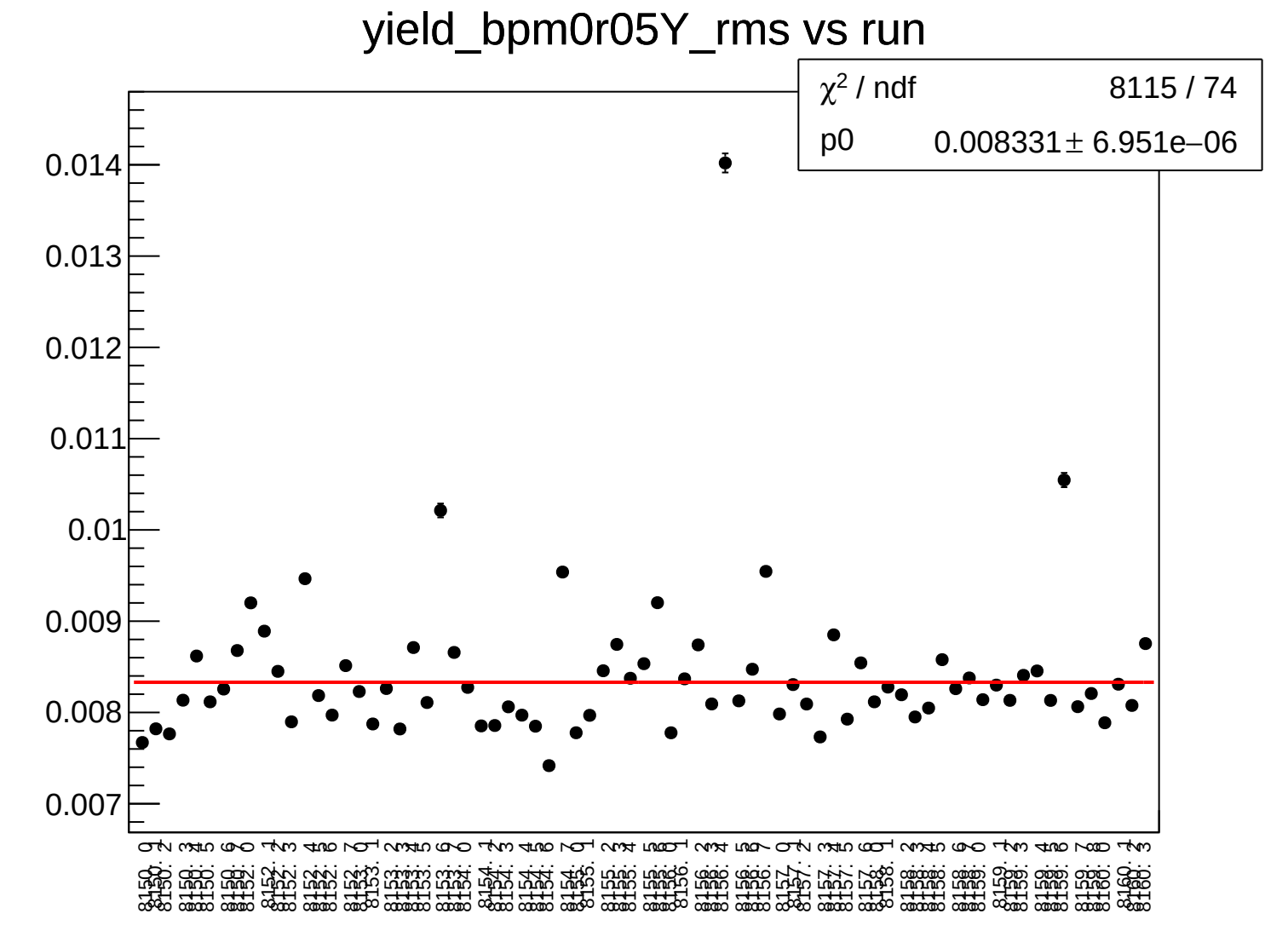

yield_bpm0r03Y_rms vs run
χ² / ndf 5090 / 74
p0 0.00618 ± 5.151e–06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055

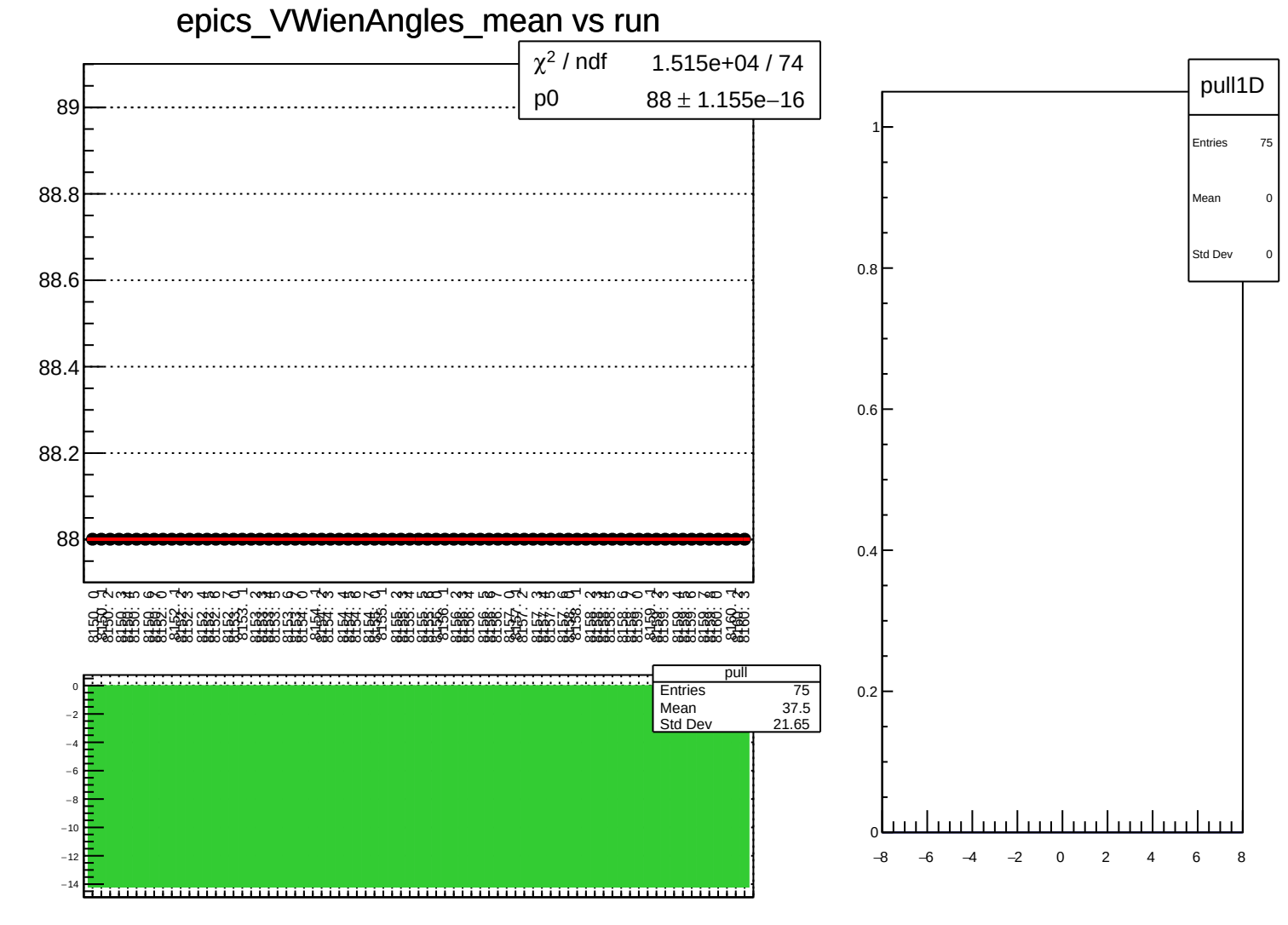

yield_bpm0r05X_mean vs run
χ² / ndf 9.472e+04 / 74
p0 −2.683 ± 0.0001122
pull
Entries 75
Mean 1281
Std Dev 1256
pull1D
Entries 75
Mean −1.793
Std Dev 4.032

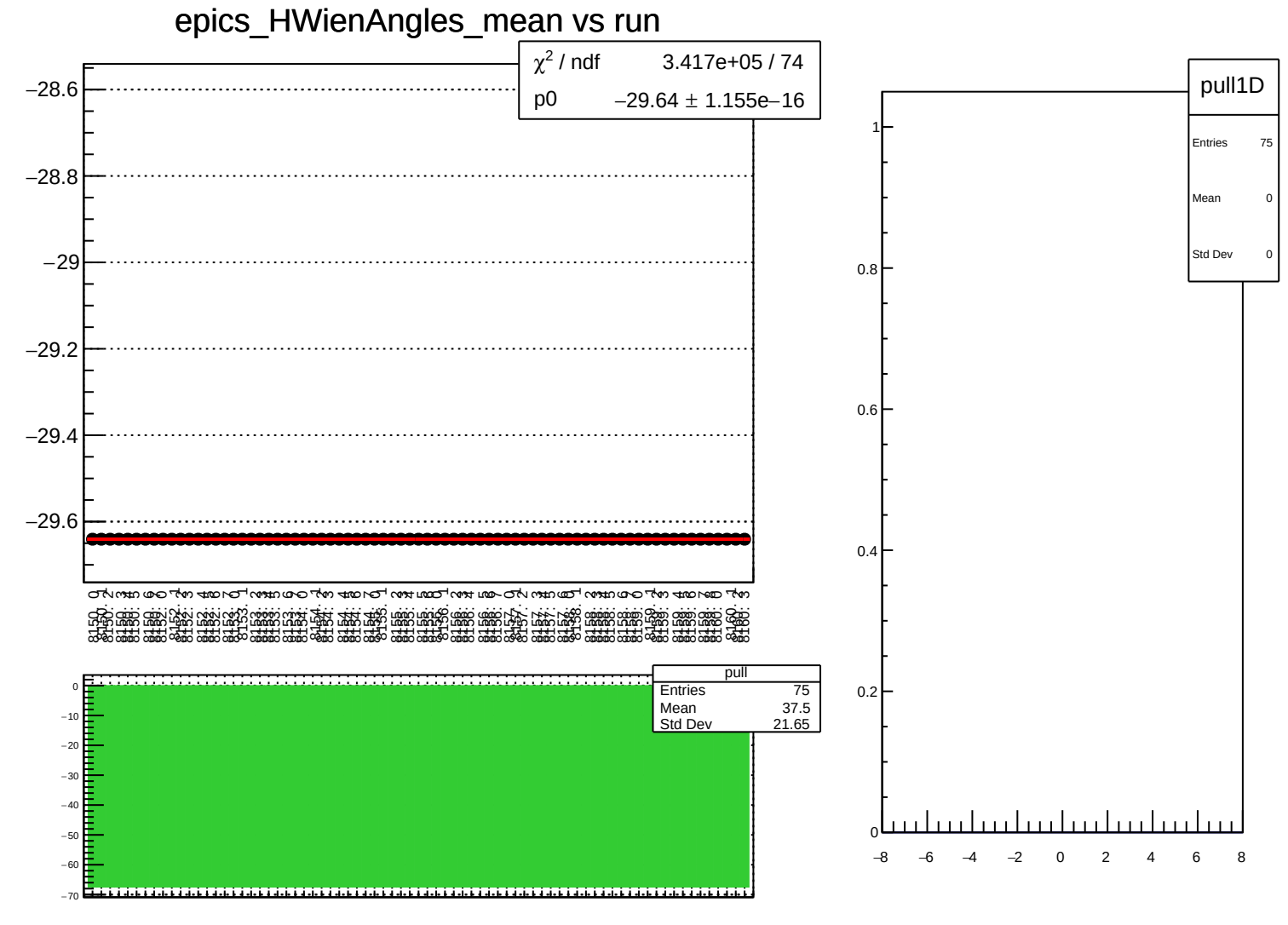

yield_bpm0r05X_rms vs run
χ² / ndf 1074 / 74
p0 0.09529 ± 7.931e−05
0.104
0.102
0.1
0.098
0.096
0.094
0.092
0.09

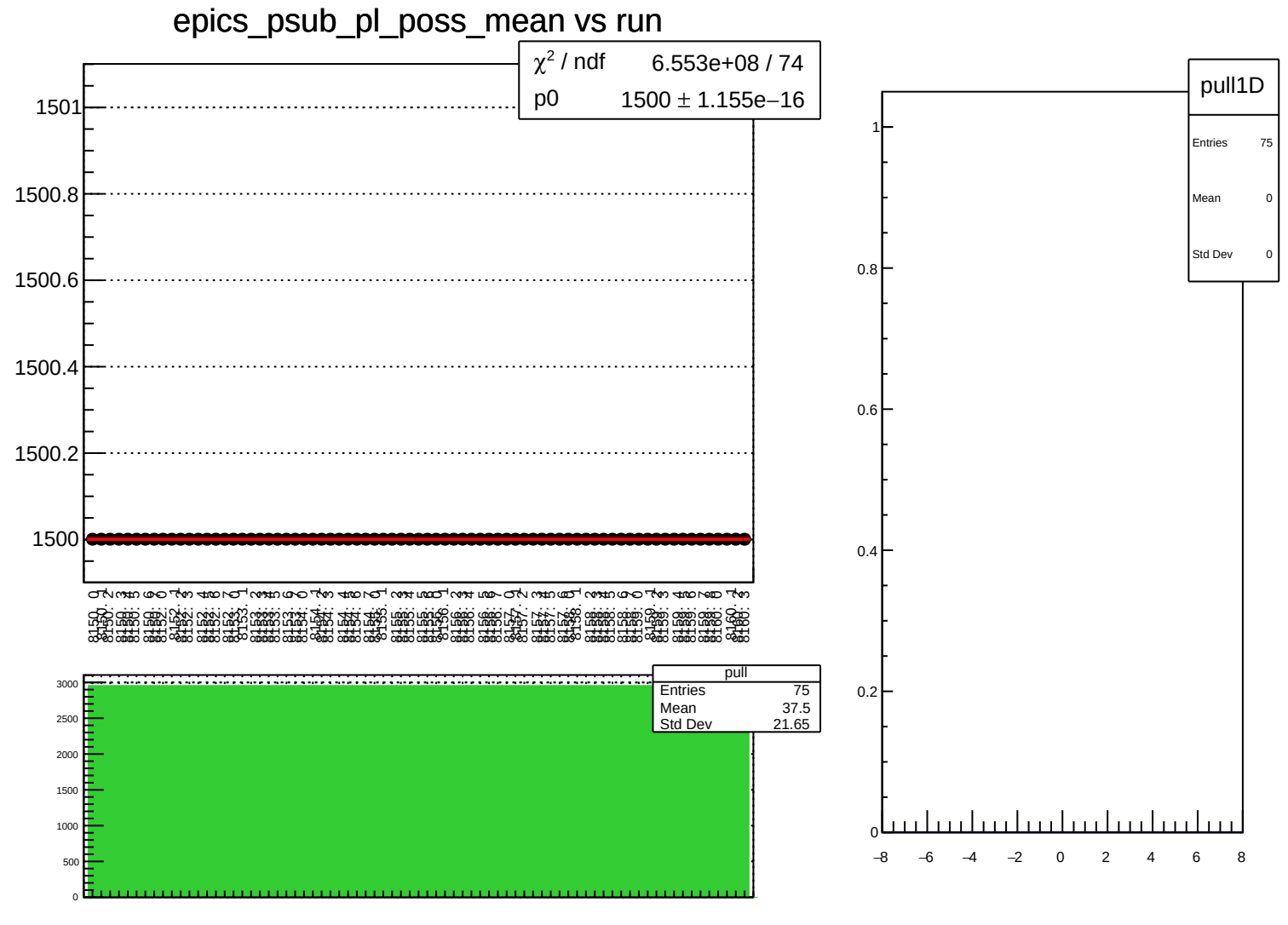

yield_bpm0r05Y_mean vs run
χ² / ndf 1.646e+06 / 74
p0 0.9007 ± 9.83e−06
0.93
0.92
0.91
0.9
0.89
0.88
pull
Entries 75
Mean 1.148e+04
Std Dev 1.145e+04
300
200
100
0
−100
−200

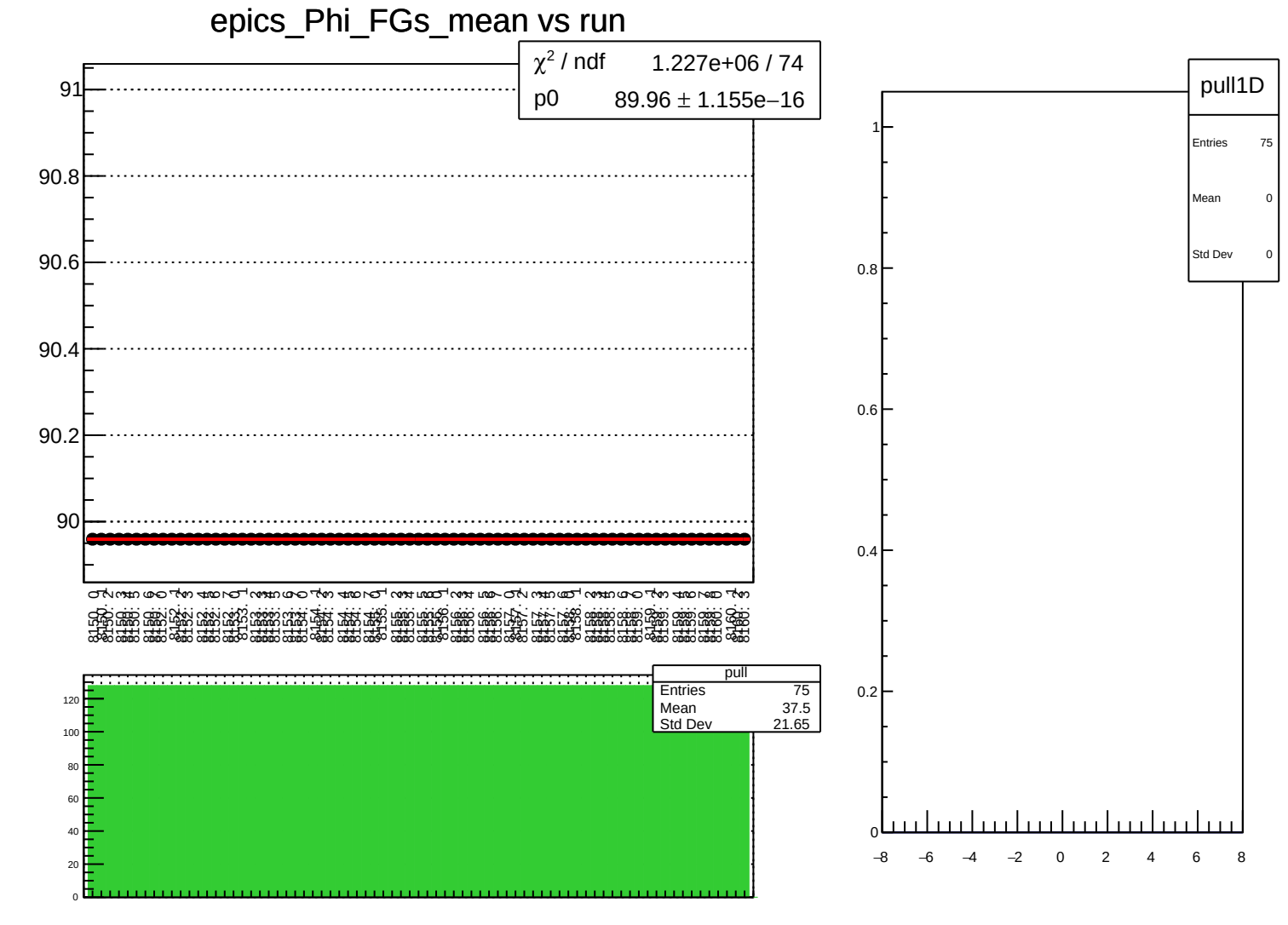

pull1D
Entries 75
Mean 6.982
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

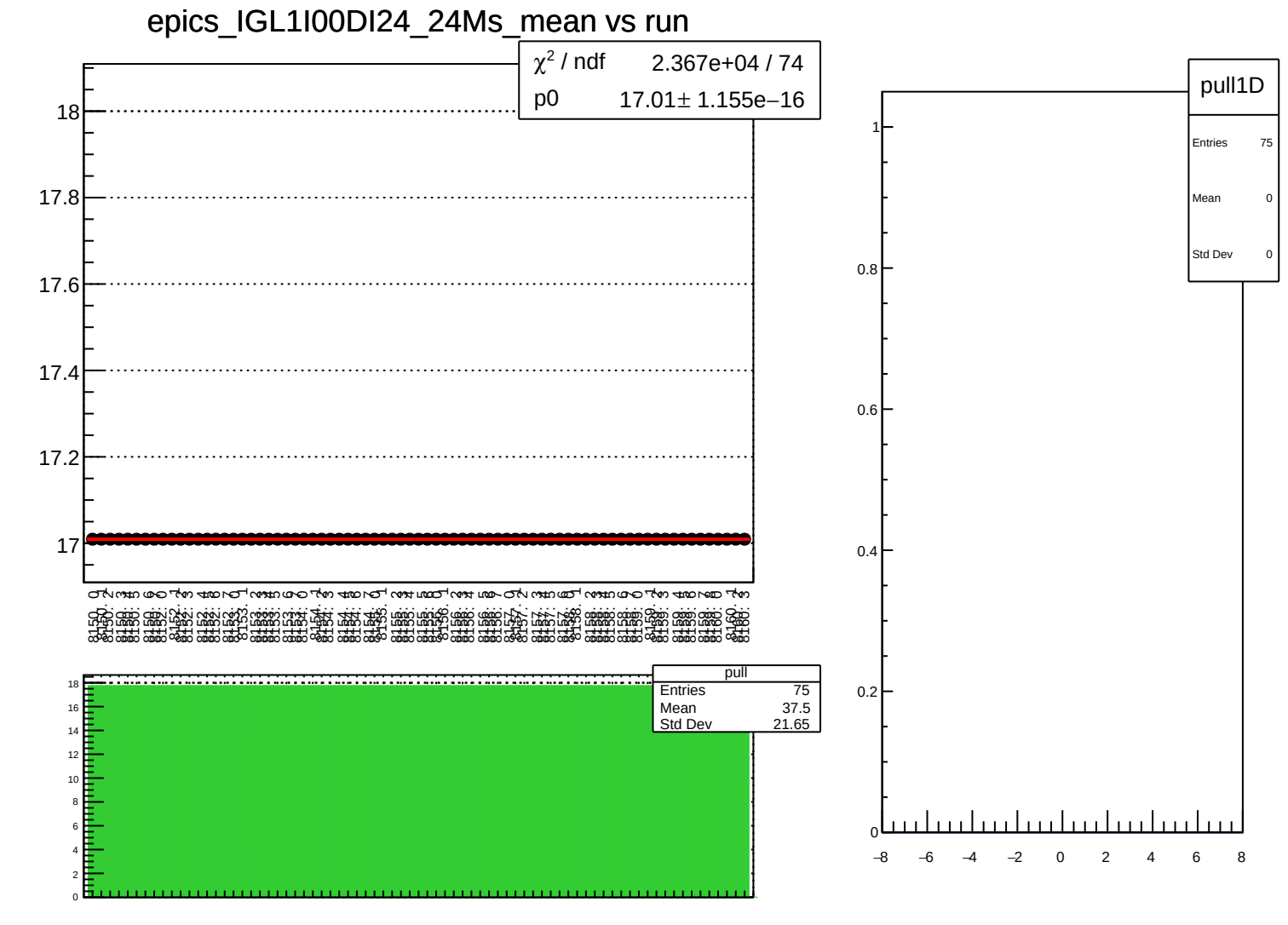

yield_bpm0r05Y_rms vs run
χ² / ndf 8115 / 74
p0 0.008331 ± 6.951e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

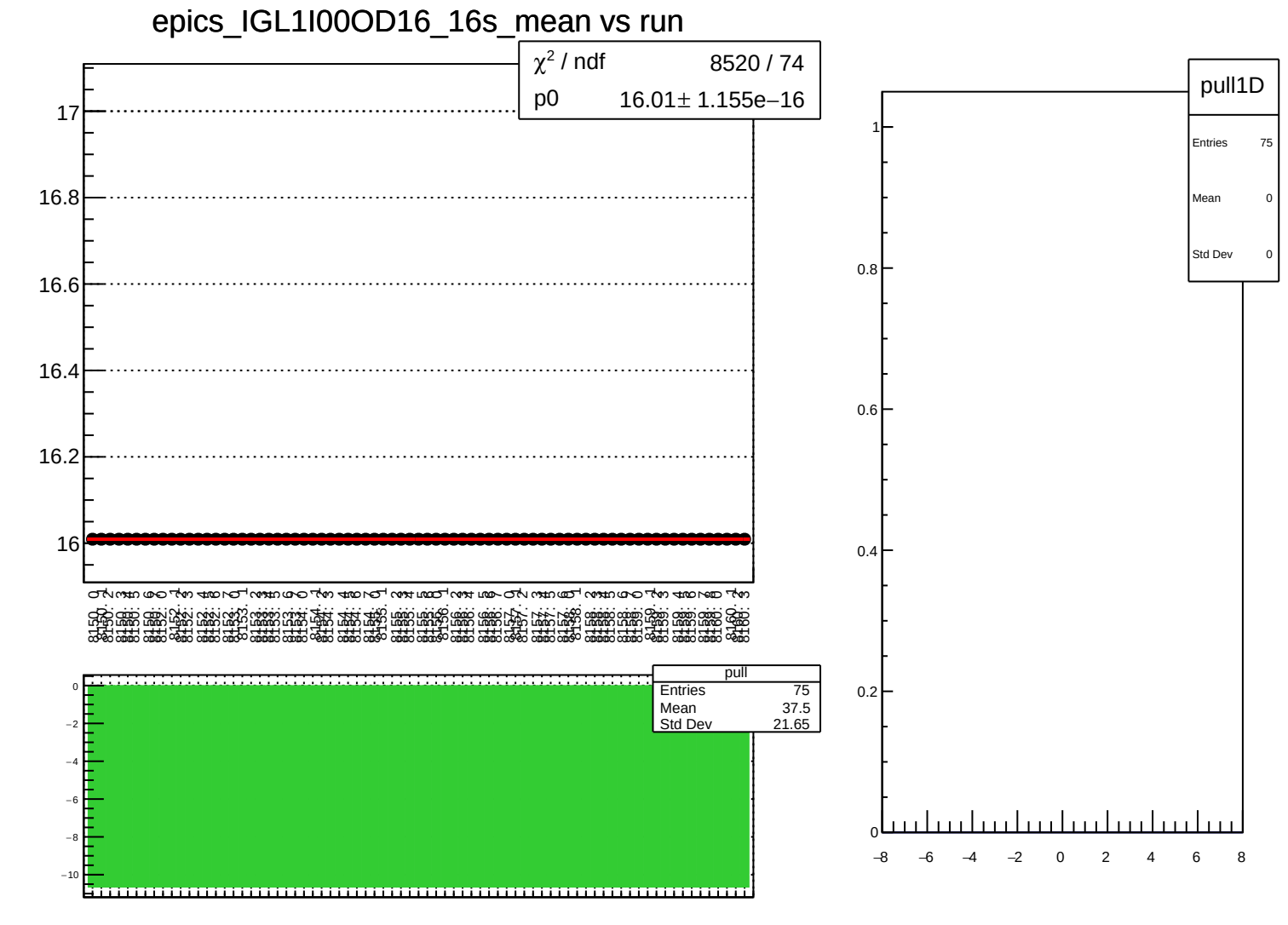

epics_VWienAngles_mean vs run
χ² / ndf 1.515e+04 / 74
p0 88 ± 1.155e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

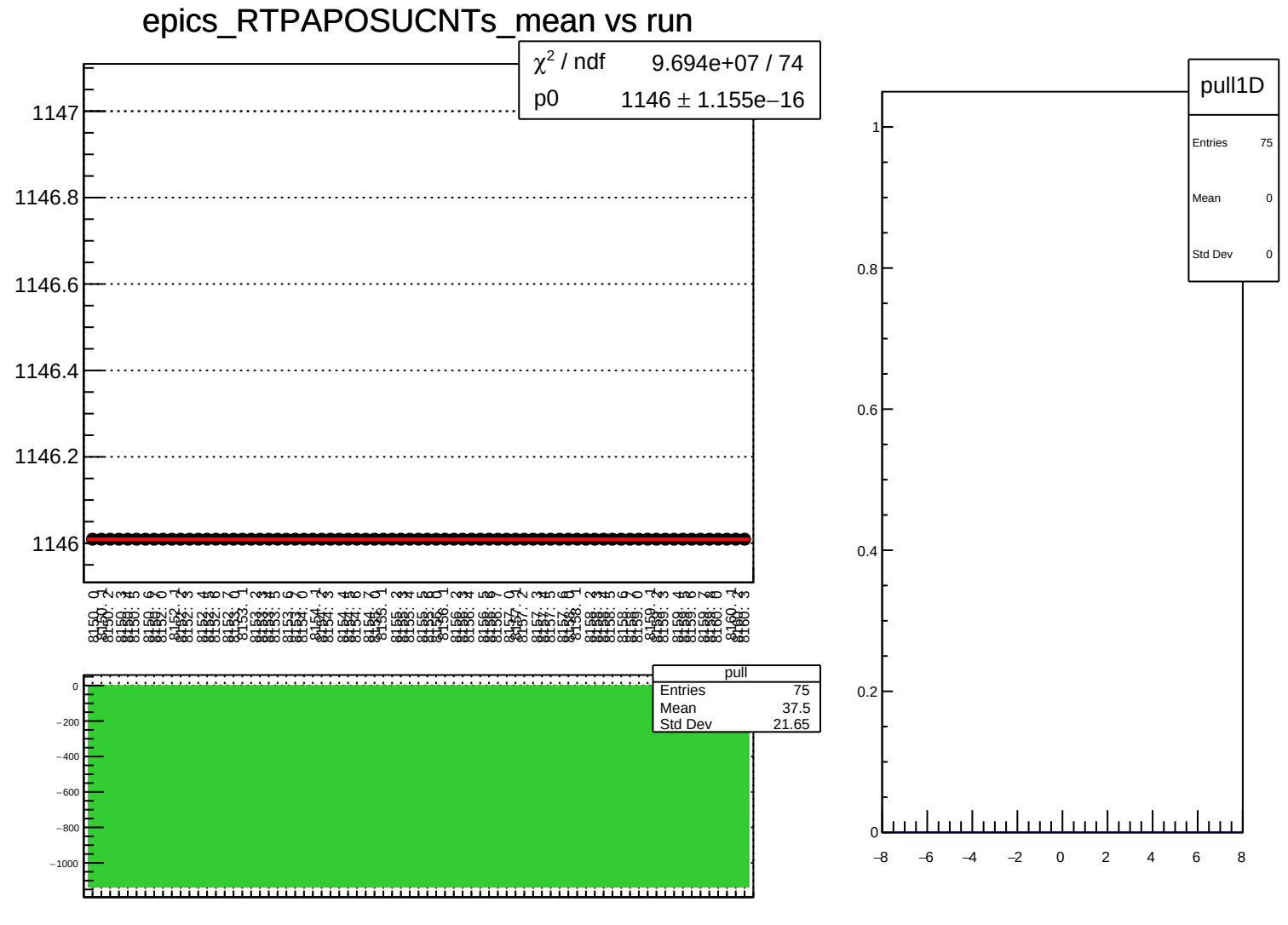

epics_HWienAngles_mean vs run
χ² / ndf 3.417e+05 / 74
p0 −29.64 ± 1.155e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

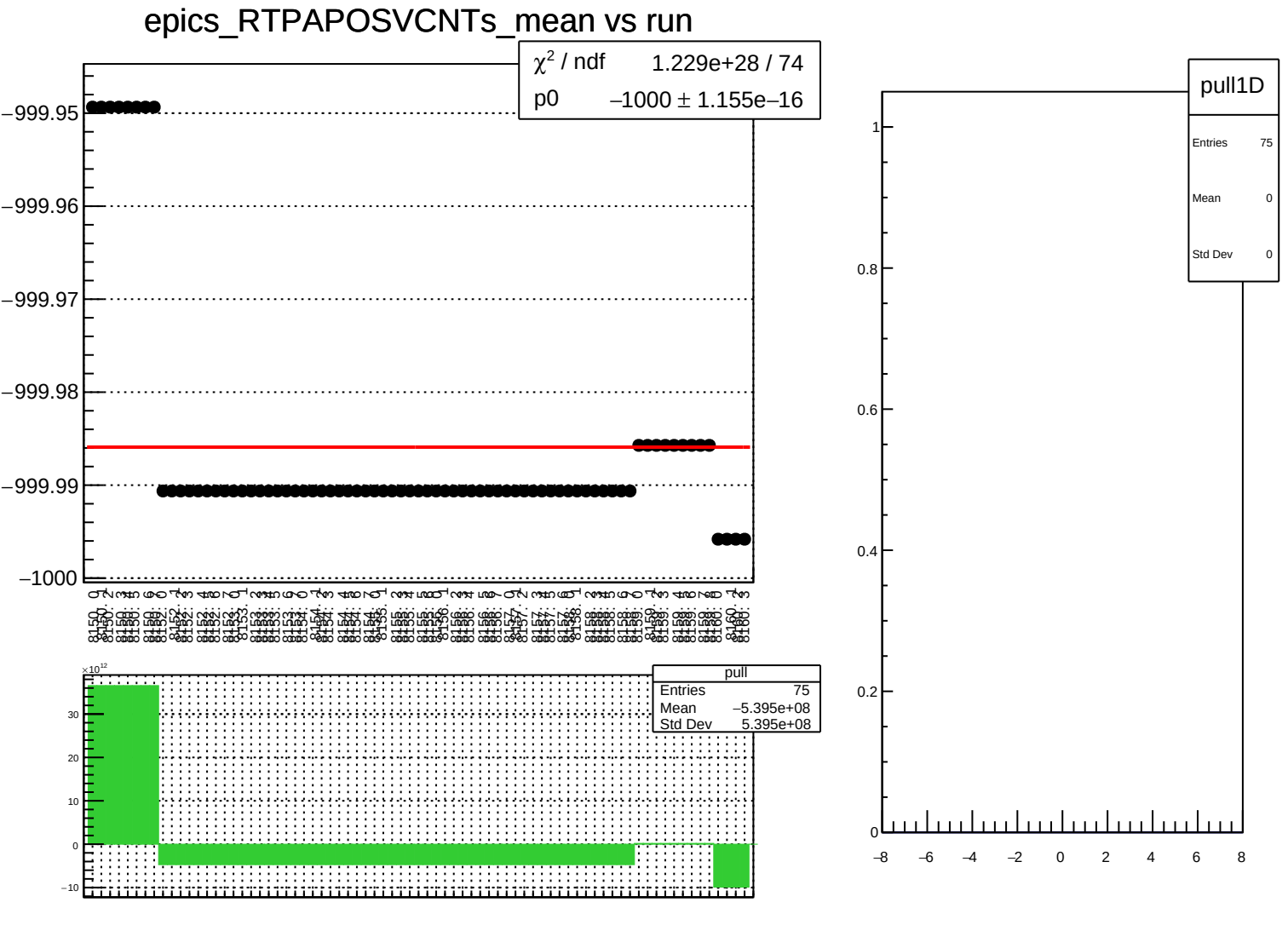

epics_psub_pl_poss_mean vs run
χ² / ndf 6.553e+08 / 74
p0 1500 ± 1.155e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 75
Mean 37.5
Std Dev 21.65
3000
2500
2000
1500
1000
500
0
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 1.227e+06 / 74
p0 89.96 ± 1.155e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 75
Mean 37.5
Std Dev 21.65
120
100
80
60
40
20
0
pull1D
Entries 75
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 2.367e+04 / 74
p0 17.01± 1.155e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 75
Mean 37.5
Std Dev 21.65
pull1D
Entries 75
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 8520 / 74
p0 16.01± 1.155e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−2
−4
−6
−8
−10
pull1D
Entries 75
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 9.694e+07 / 74
p0 1146 ± 1.155e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 75
Mean 37.5
Std Dev 21.65
0
−200
−400
−600
−800
−1000
pull1D
Entries 75
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_RTPAPOSVCNTs_mean vs run
χ² / ndf 1.229e+28 / 74
p0 −1000 ± 1.155e−16
−999.95
−999.96
−999.97
−999.98
−999.99
−1000
pull
Entries 75
Mean −5.395e+08
Std Dev 5.395e+08
×10¹²
30
20
10
0
−10
pull1D
Entries 75
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8