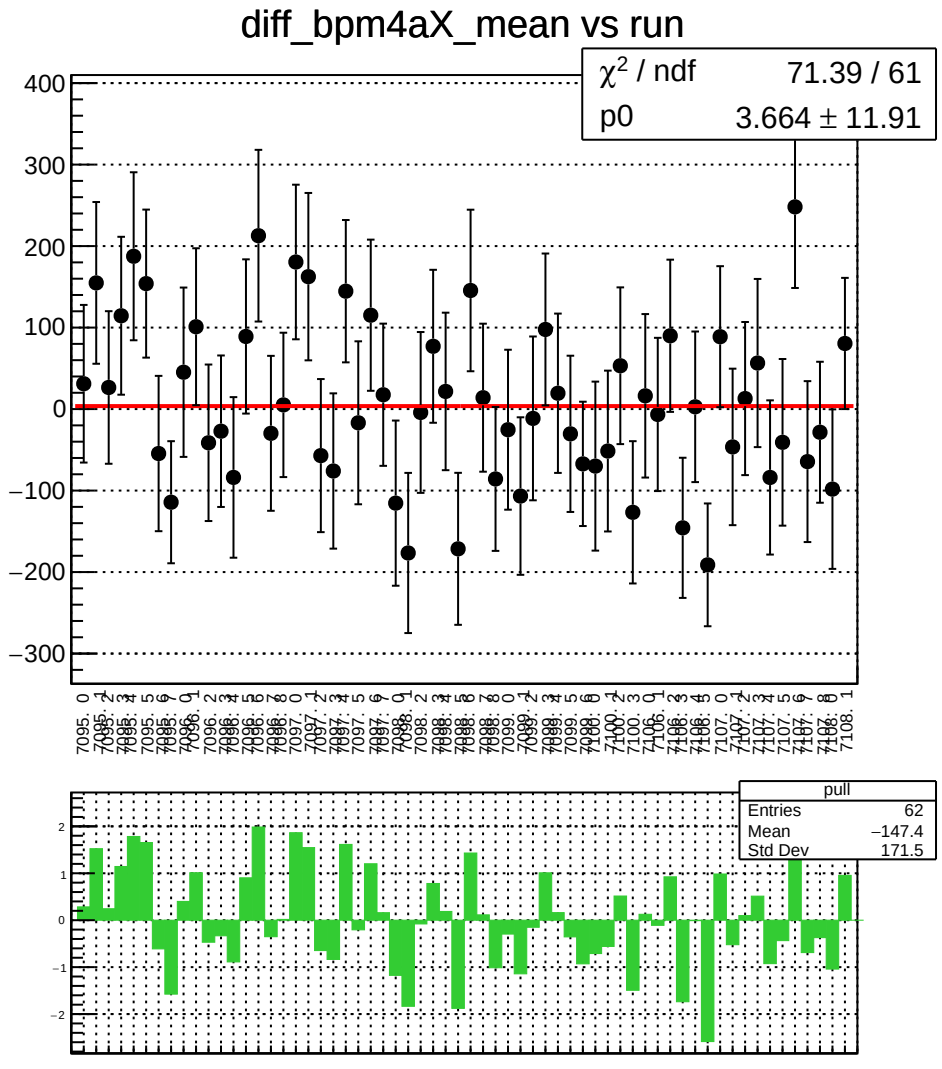
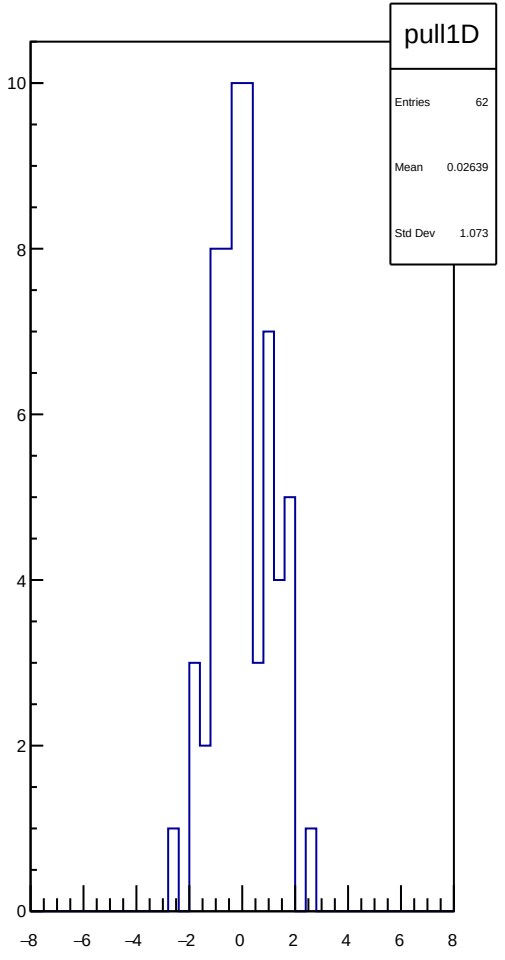
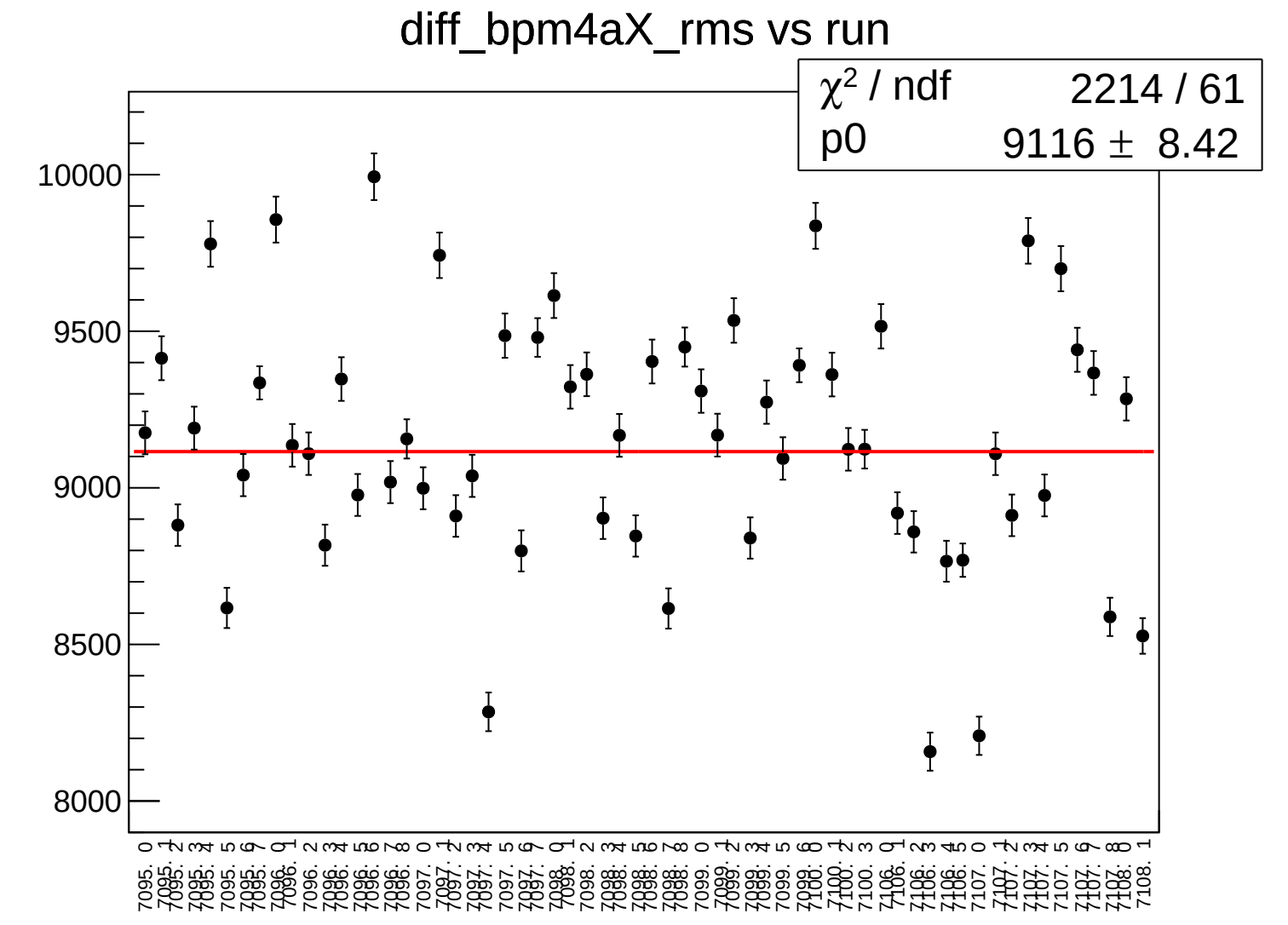
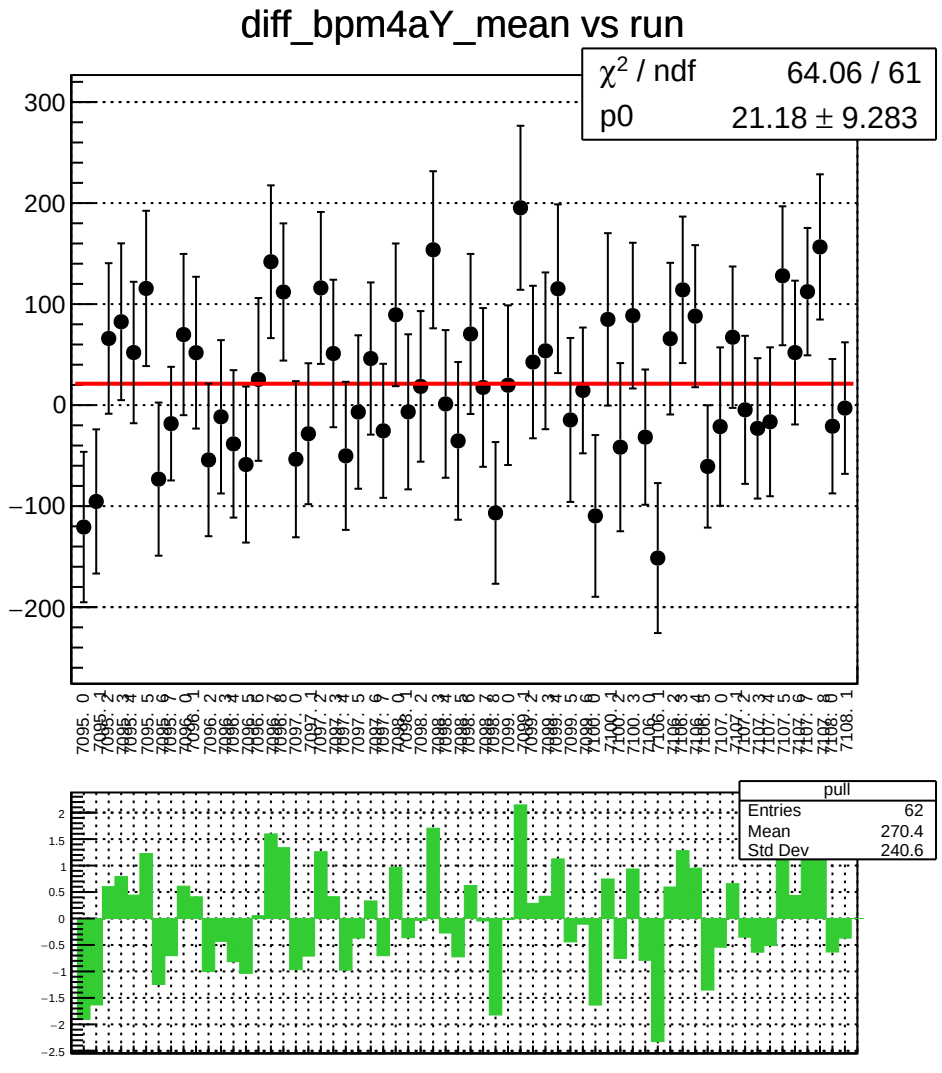
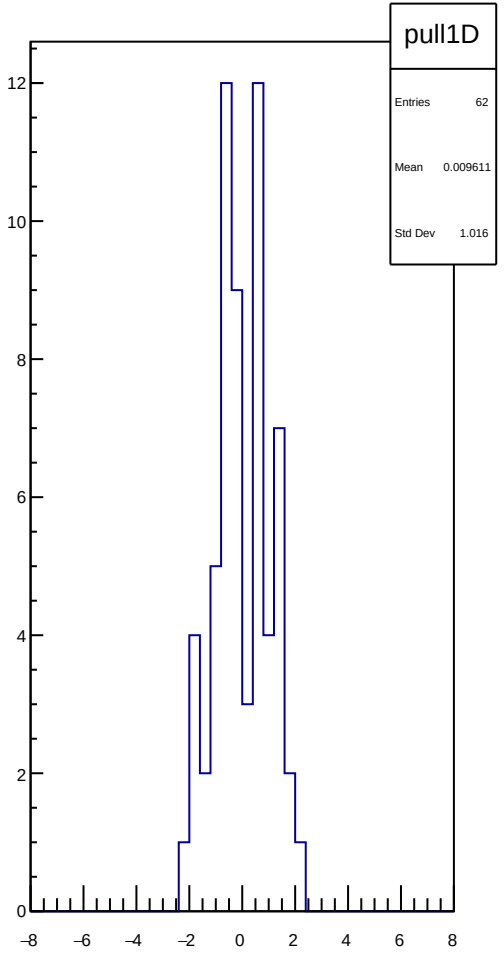
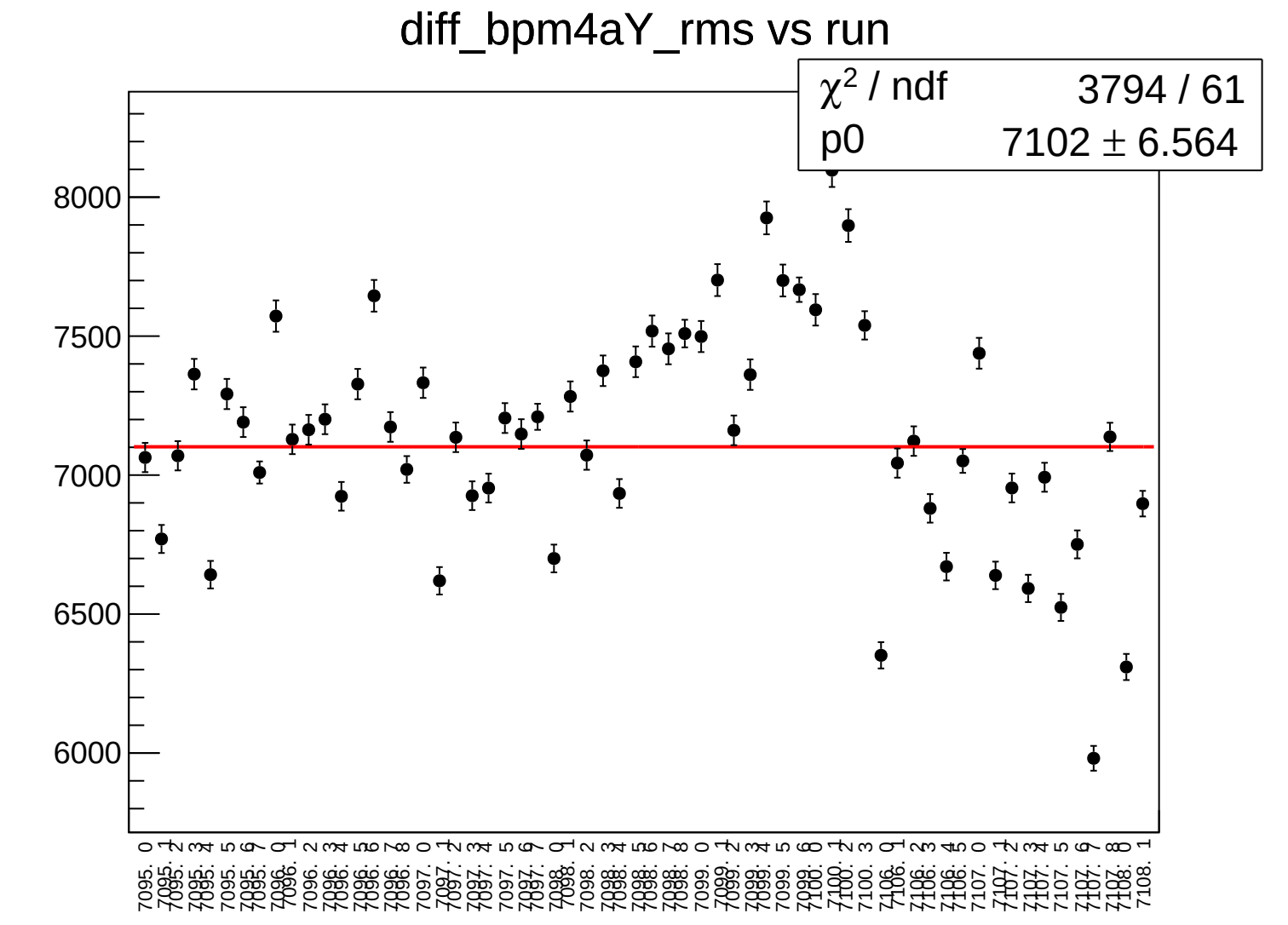

diff_bpm4aX_mean vs run
χ^2 / ndf 71.39 / 61
p0 3.664 ± 11.91
pull
Entries 62
Mean −147.4
Std Dev 171.5

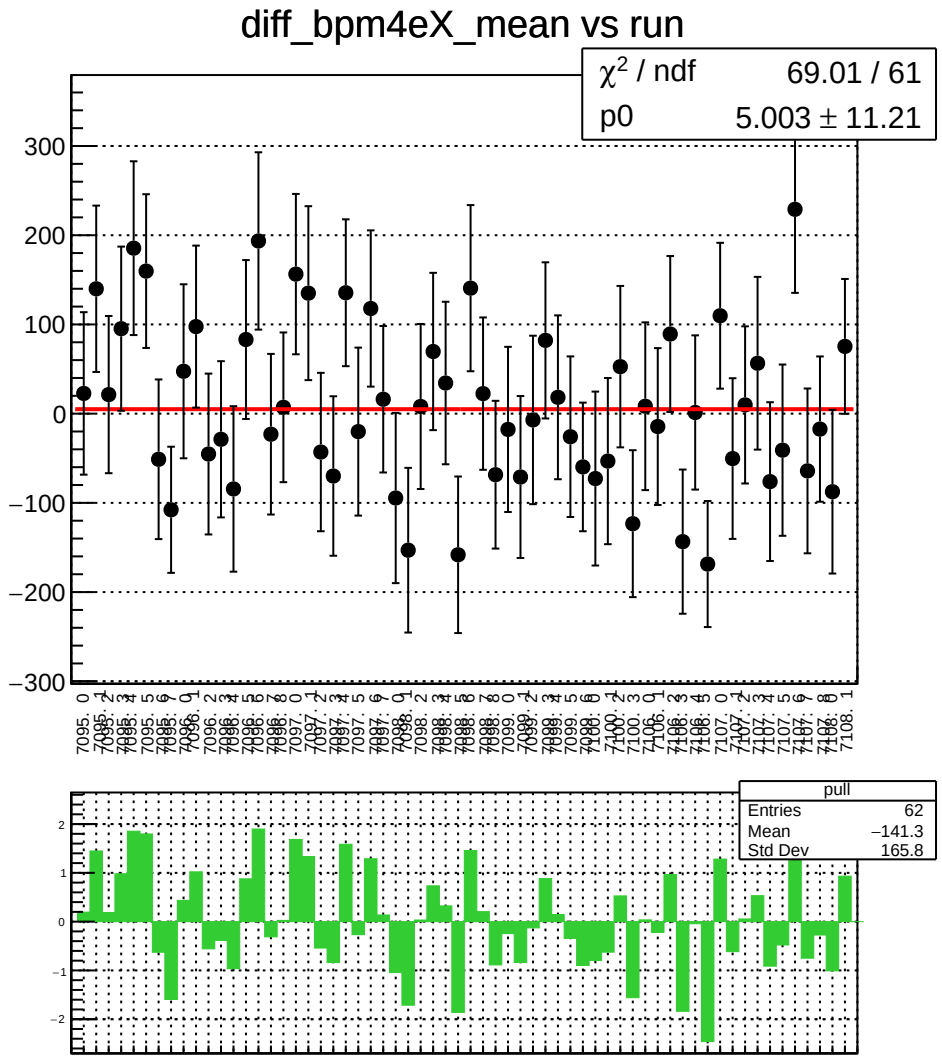

pull1D
Entries 62
Mean 0.02639
Std Dev 1.073

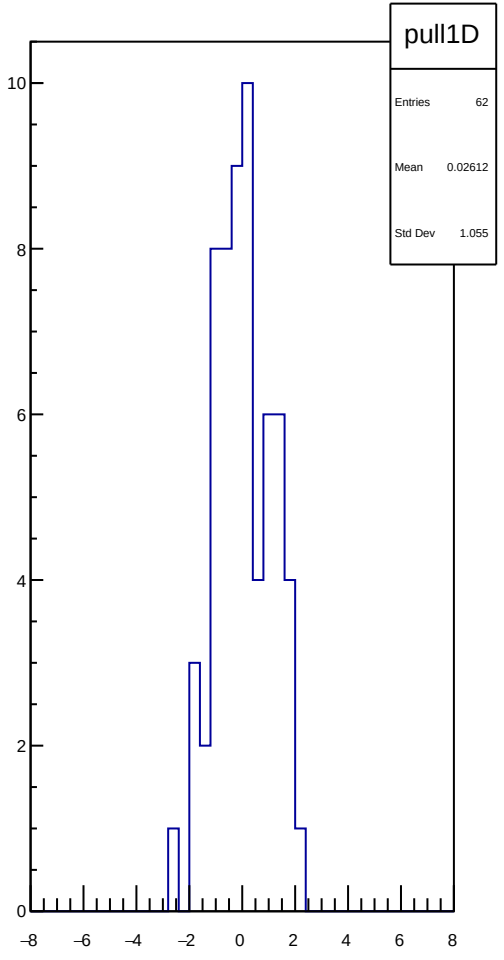

diff_bpm4aX_rms vs run
χ² / ndf 2214 / 61
p0 9116 ± 8.42
10000
9500
9000
8500
8000

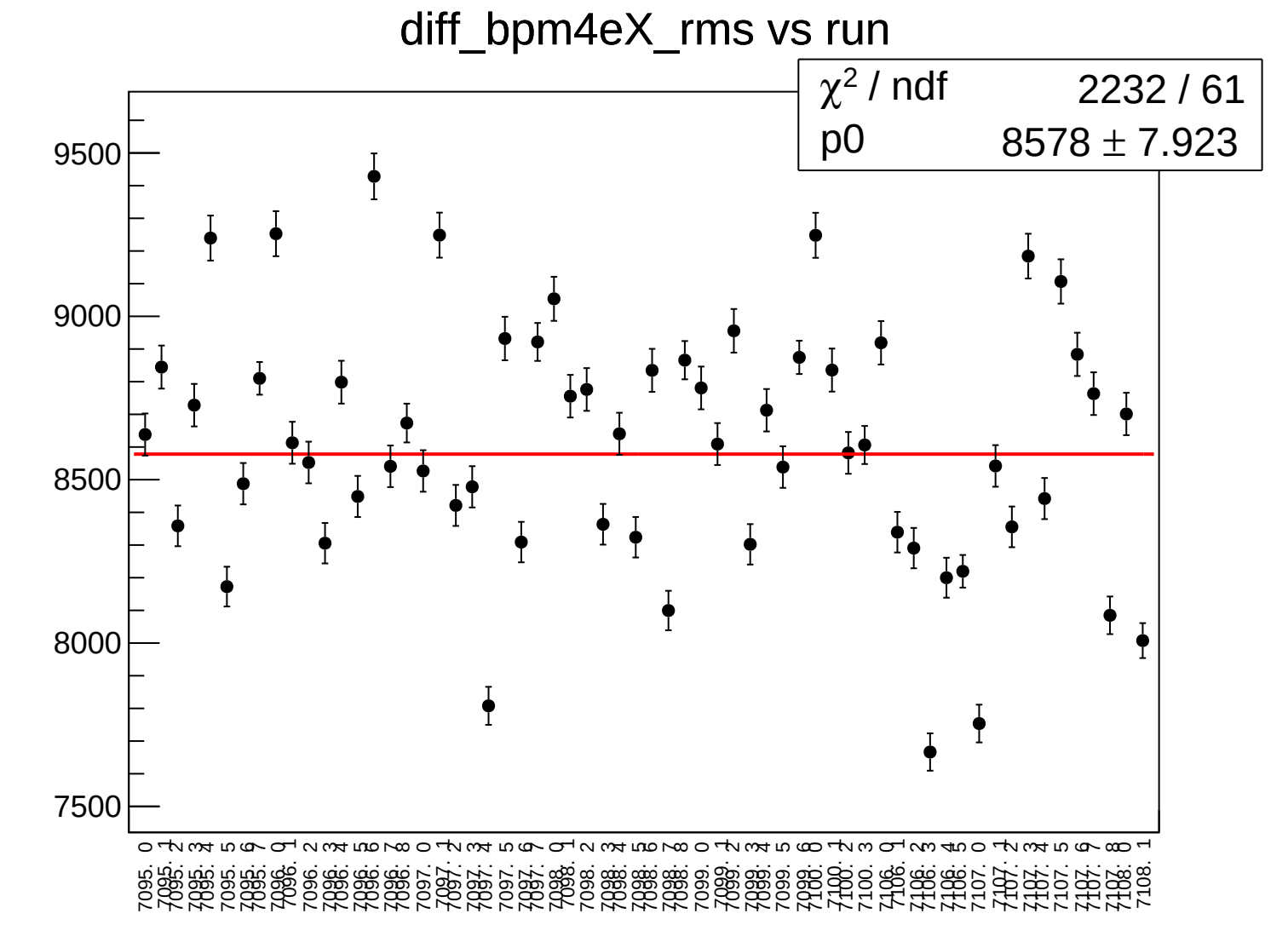

diff_bpm4aY_mean vs run
χ^2 / ndf 64.06 / 61
p0 21.18 ± 9.283
pull
Entries 62
Mean 270.4
Std Dev 240.6

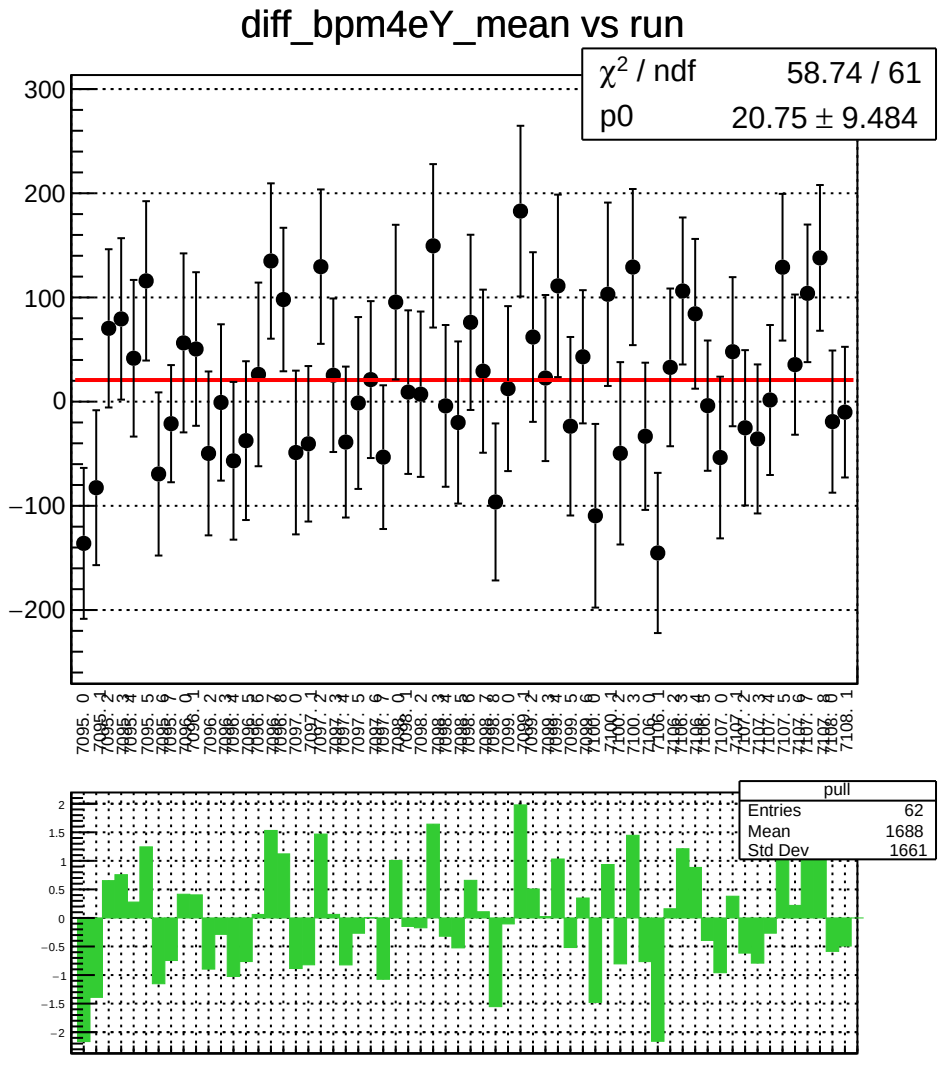

pull1D
Entries 62
Mean 0.009611
Std Dev 1.016

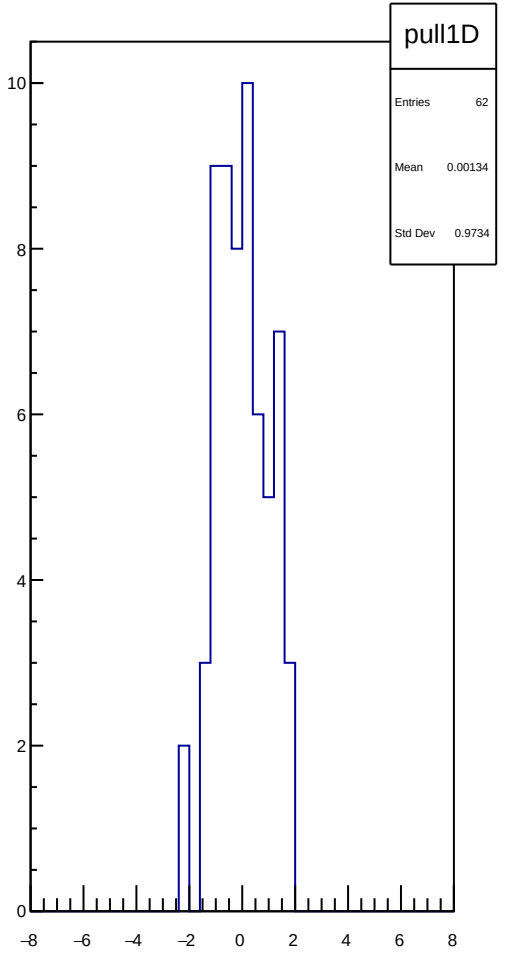

diff_bpm4aY_rms vs run
χ² / ndf 3794 / 61
p0 7102 ± 6.564
8000
7500
7000
6500
6000

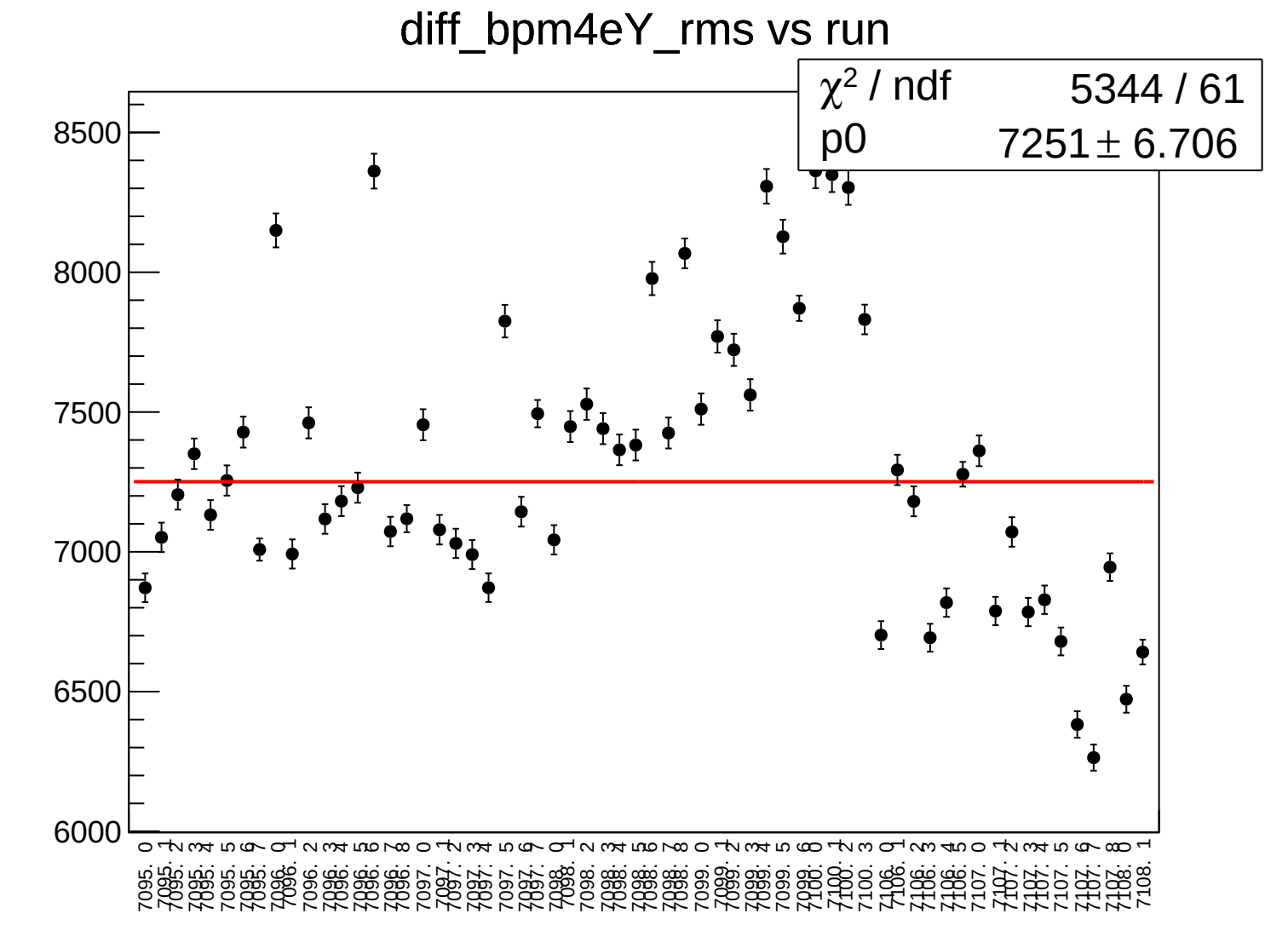

diff_bpm4eX_mean vs run
χ^2 / ndf 69.01 / 61
p0 5.003 ± 11.21
pull
Entries 62
Mean −141.3
Std Dev 165.8

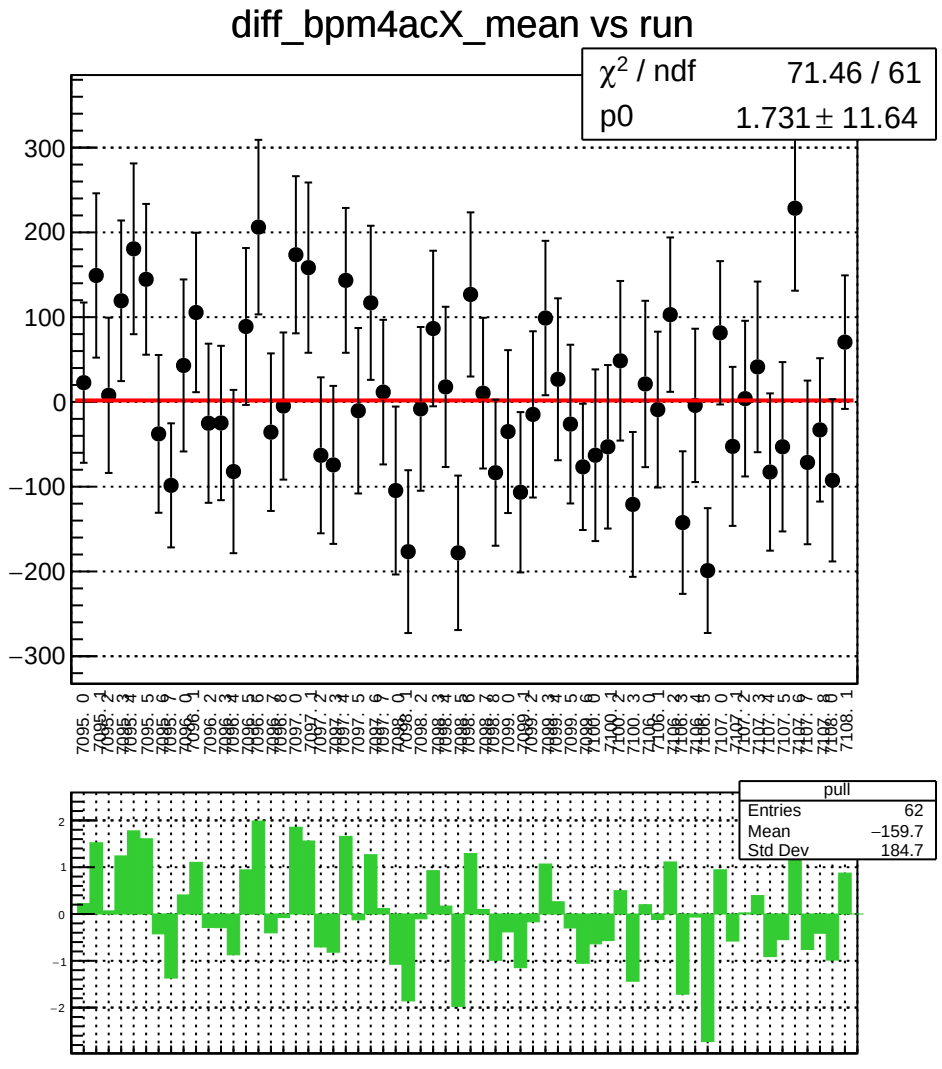

pull1D
Entries 62
Mean 0.02612
Std Dev 1.055

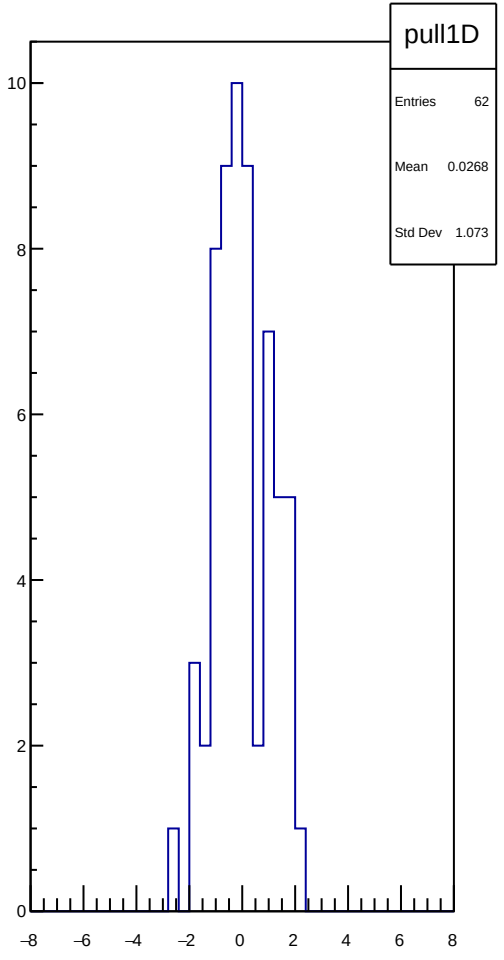

diff_bpm4eX_rms vs run
χ^2 / ndf 2232 / 61
p0 8578 ± 7.923
9500
9000
8500
8000
7500

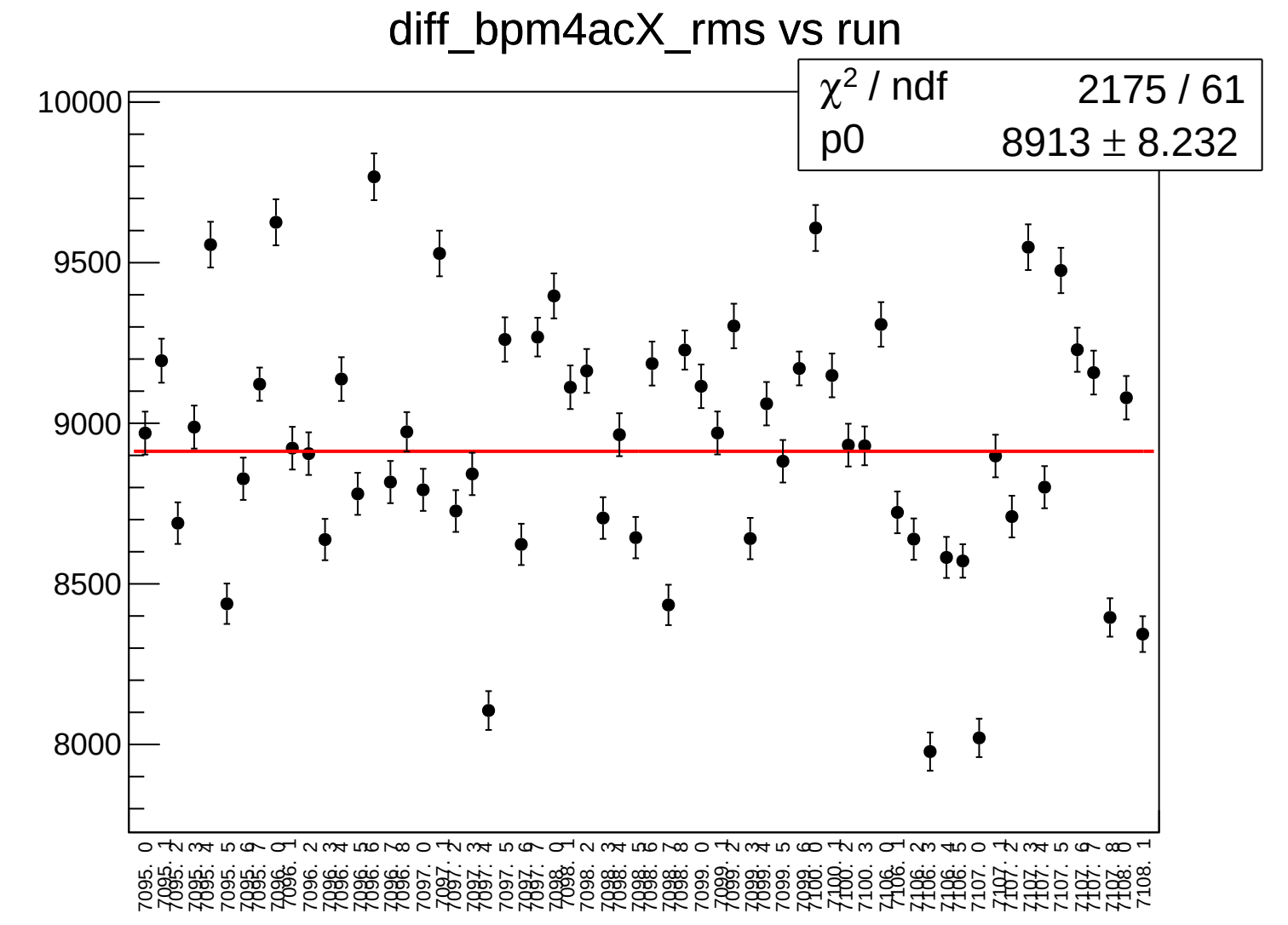

diff_bpm4eY_mean vs run
χ² / ndf 58.74 / 61
p0 20.75 ± 9.484
pull
Entries 62
Mean 1688
Std Dev 1661


pull1D
Entries 62
Mean 0.00134
Std Dev 0.9734


diff_bpm4eY_rms vs run
χ² / ndf 5344 / 61
p0 7251 ± 6.706
8500
8000
7500
7000
6500
6000


diff_bpm4acX_mean vs run
χ² / ndf 71.46 / 61
p0 1.731 ± 11.64
pull
Entries 62
Mean −159.7
Std Dev 184.7


pull1D
Entries 62
Mean 0.0268
Std Dev 1.073


diff_bpm4acX_rms vs run
χ² / ndf 2175 / 61
p0 8913 ± 8.232
10000
9500
9000
8500
8000
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
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7097. 0
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7097. 2
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7100. 4
7106. 9
7107. 0
7107. 1
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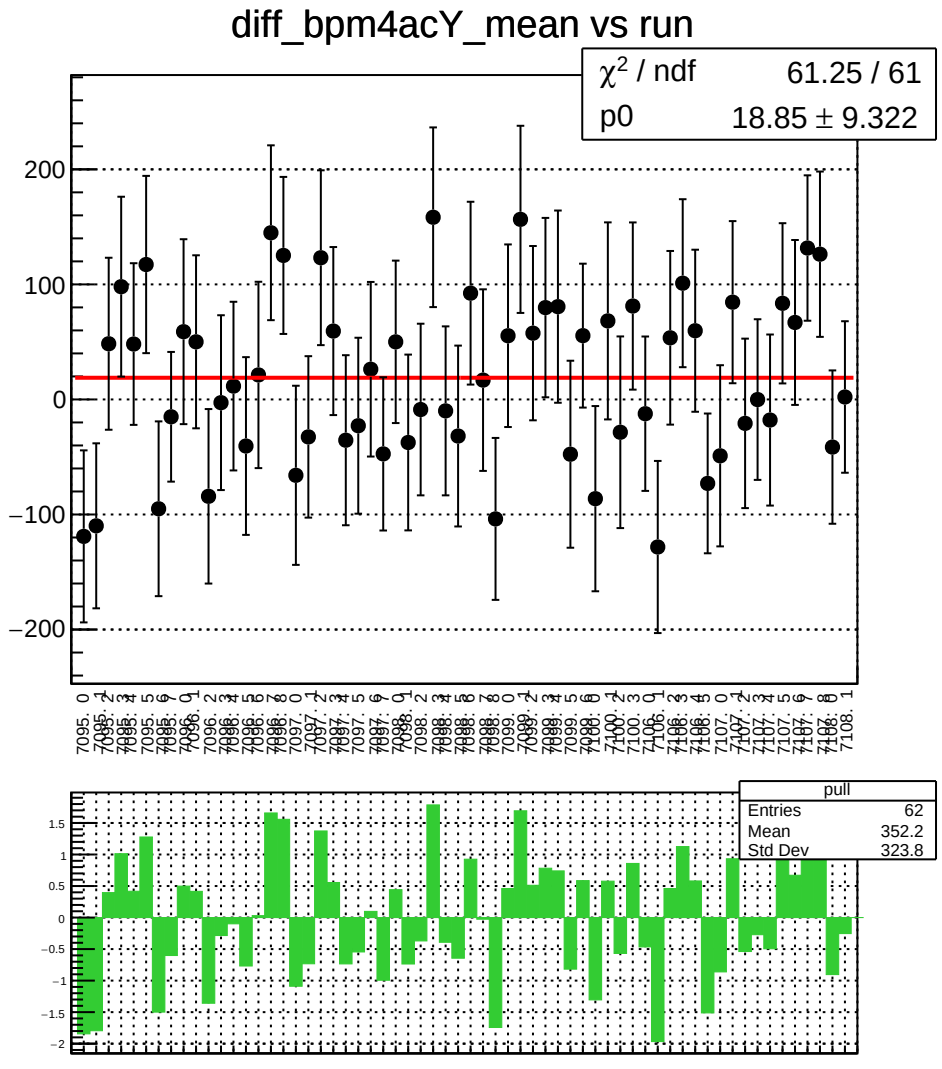
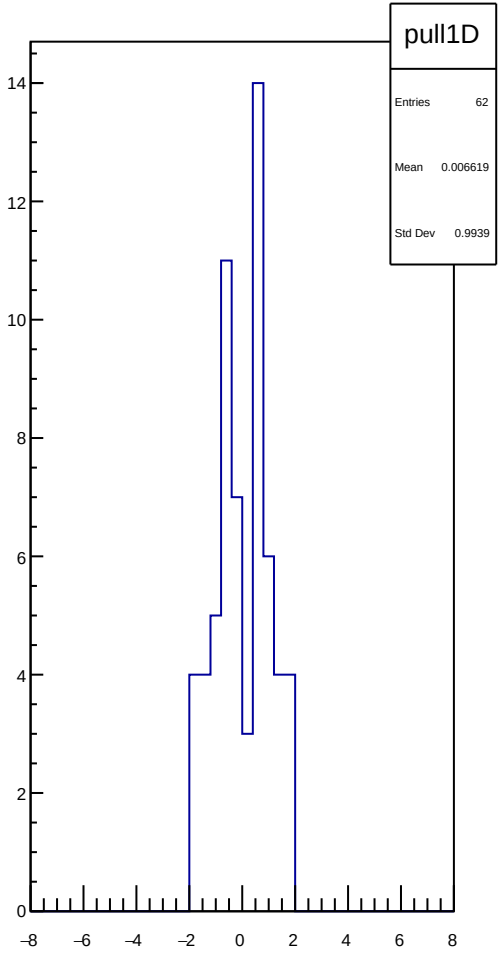
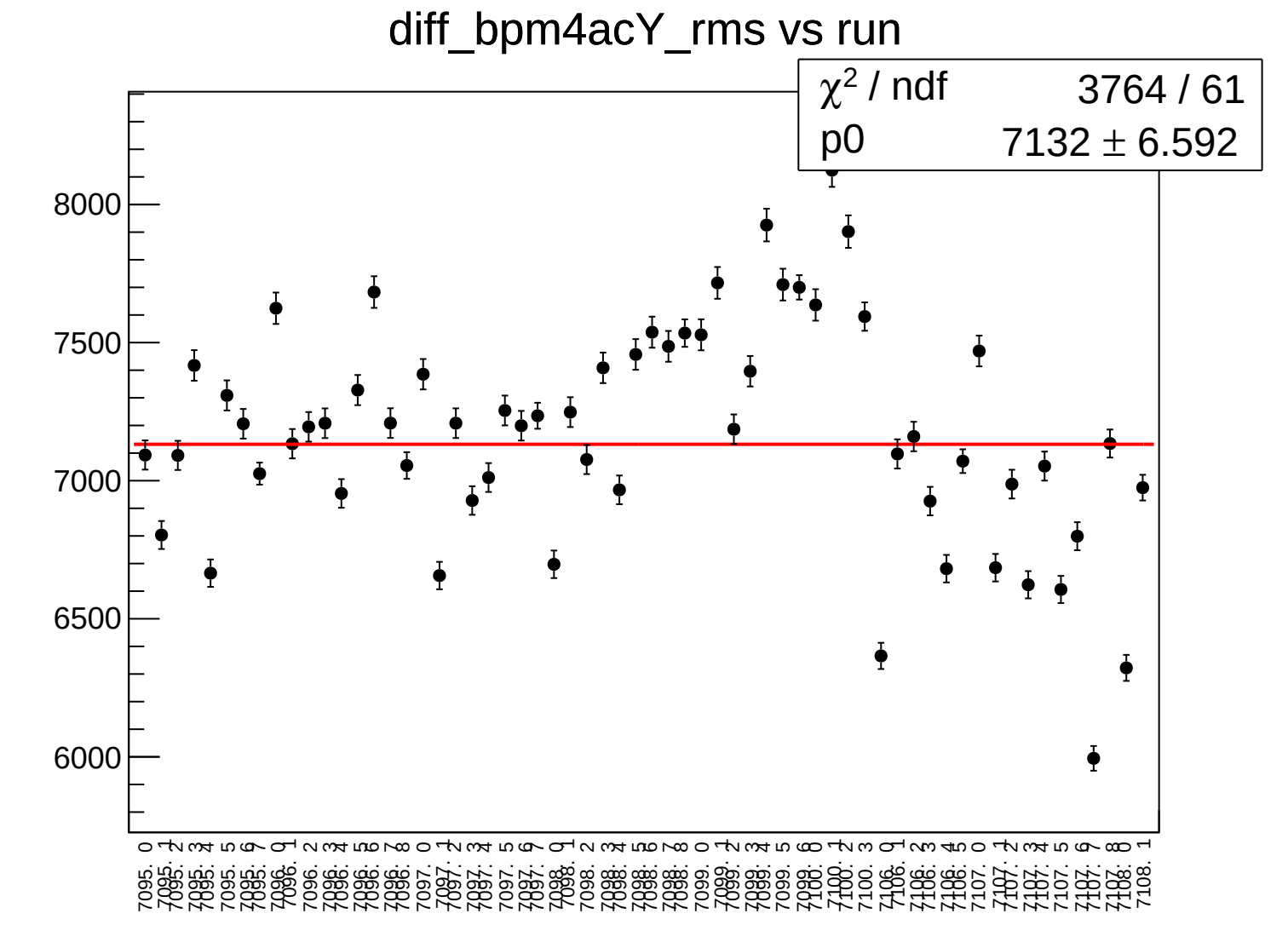
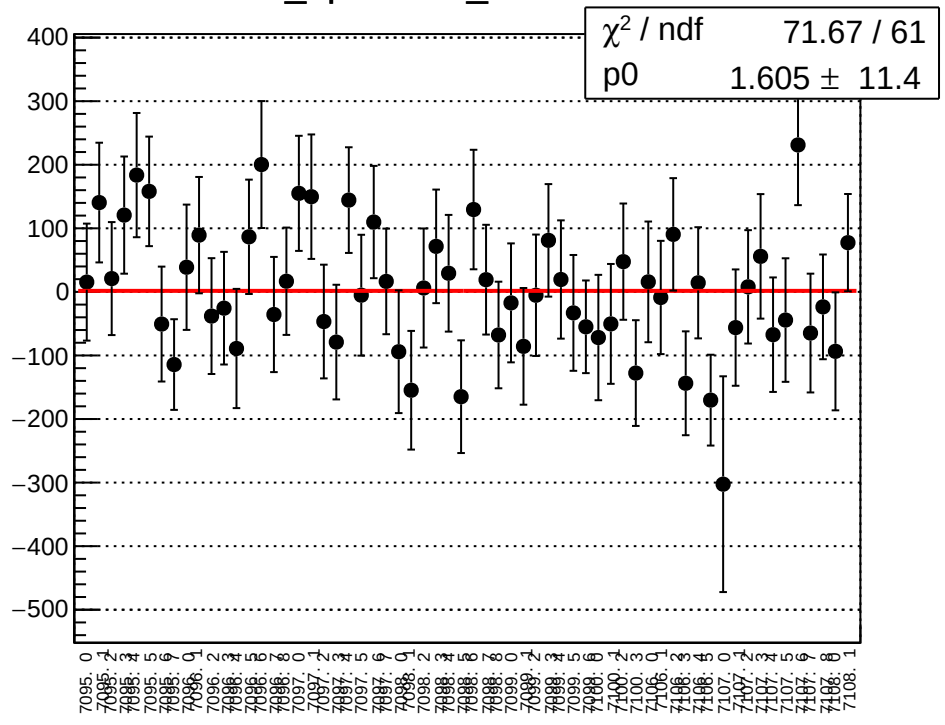
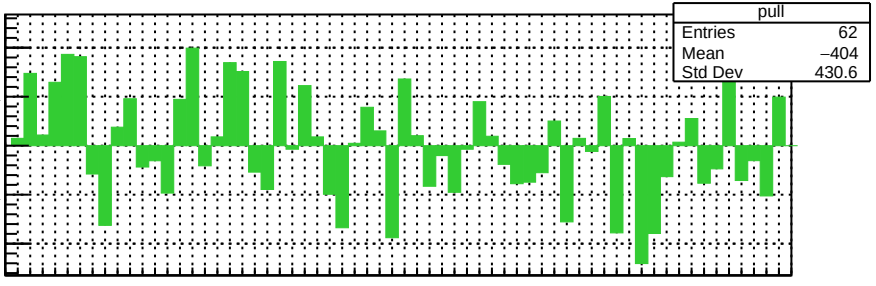
7107. 8
7107. 9
7108. 0
7108. 1

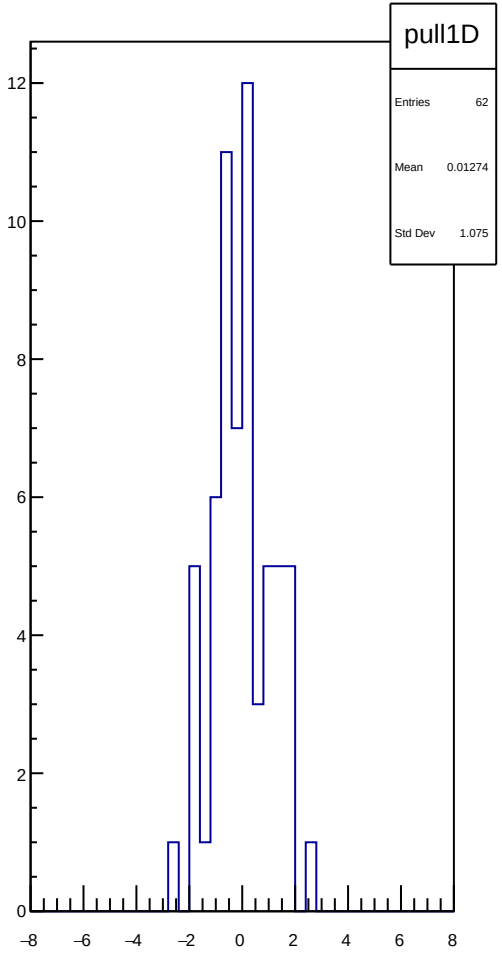

diff_bpm4acY_mean vs run
χ^2 / ndf 61.25 / 61
p0 18.85 ± 9.322
pull
Entries 62
Mean 352.2
Std Dev 323.8

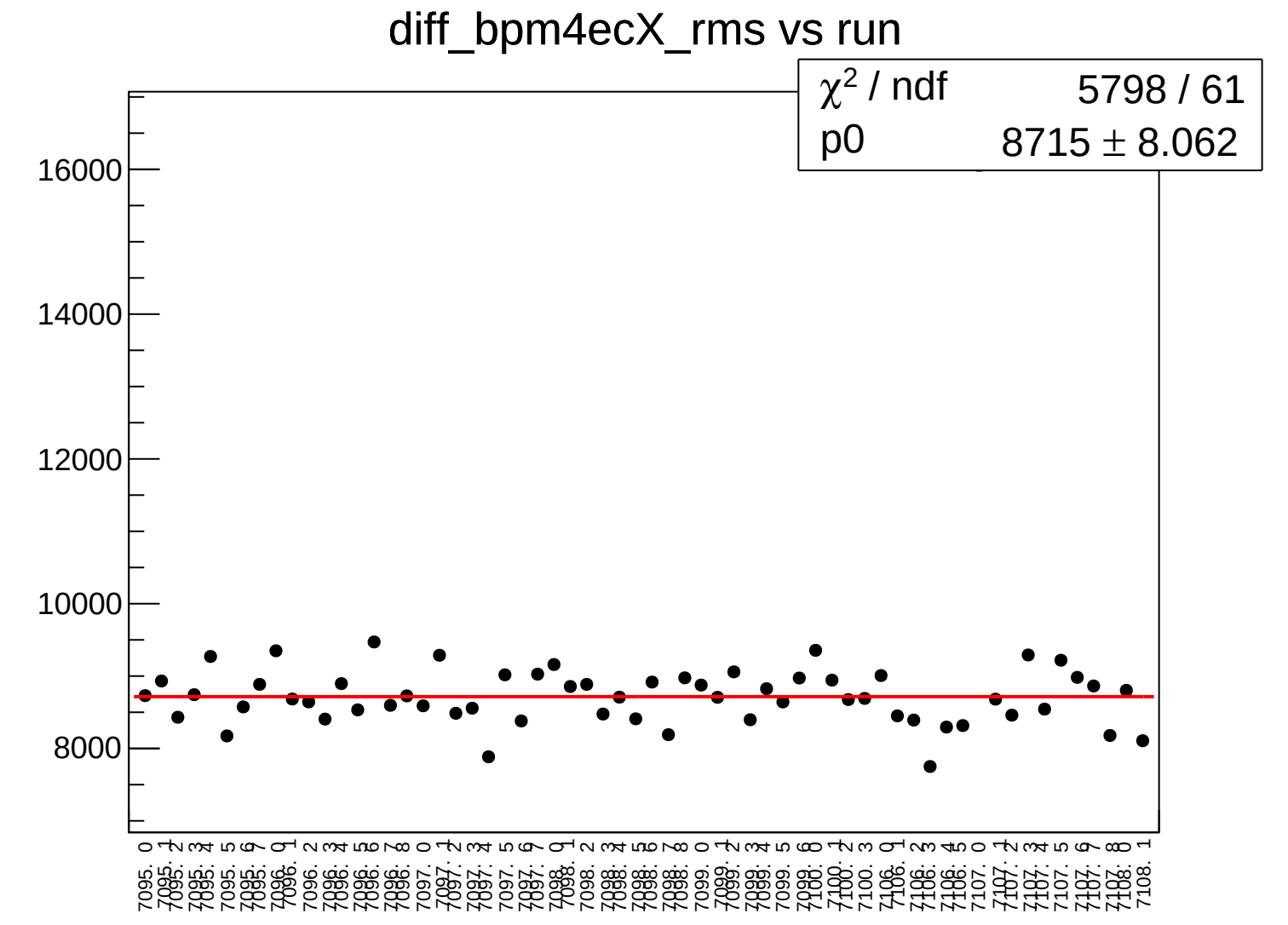

pull1D
Entries 62
Mean 0.006619
Std Dev 0.9939

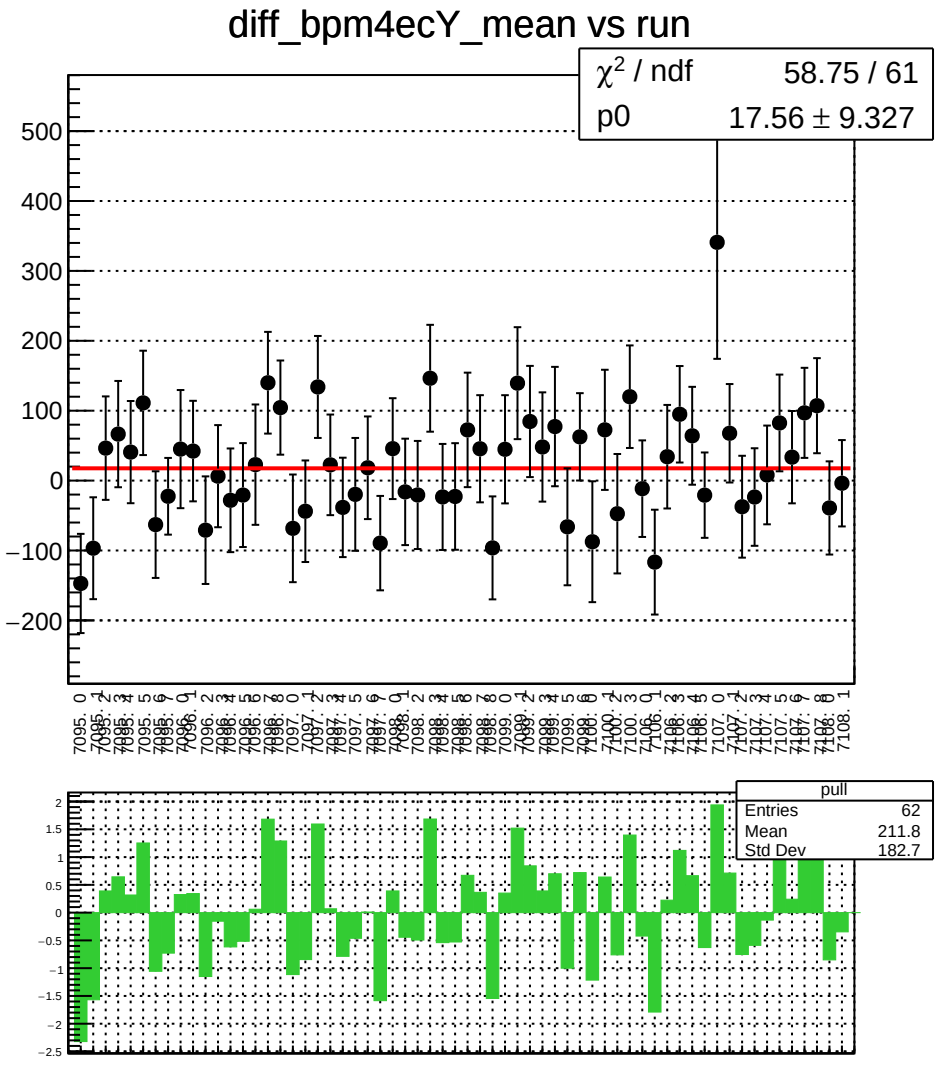

diff_bpm4acY_rms vs run
χ² / ndf 3764 / 61
p0 7132 ± 6.592
8000
7500
7000
6500
6000

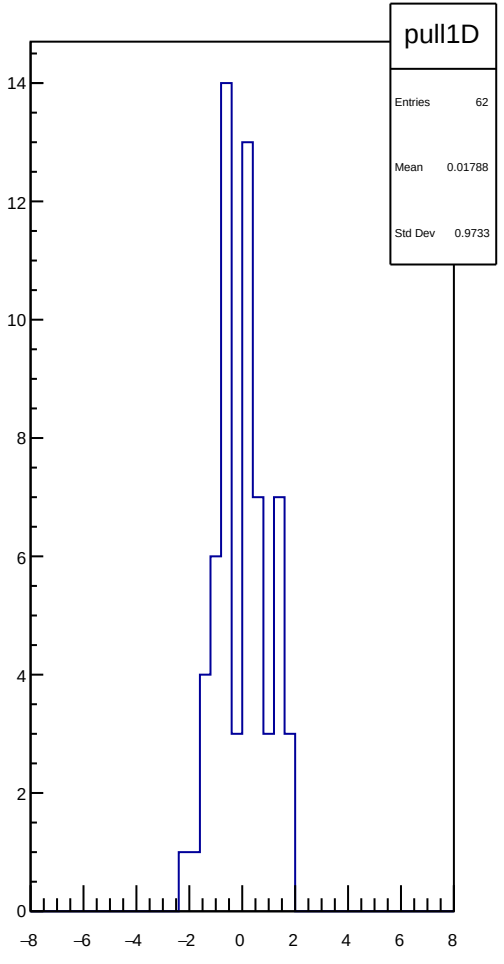

diff_bpm4ecX_mean vs run
χ² / ndf 71.67 / 61
p0 1.605 ± 11.4

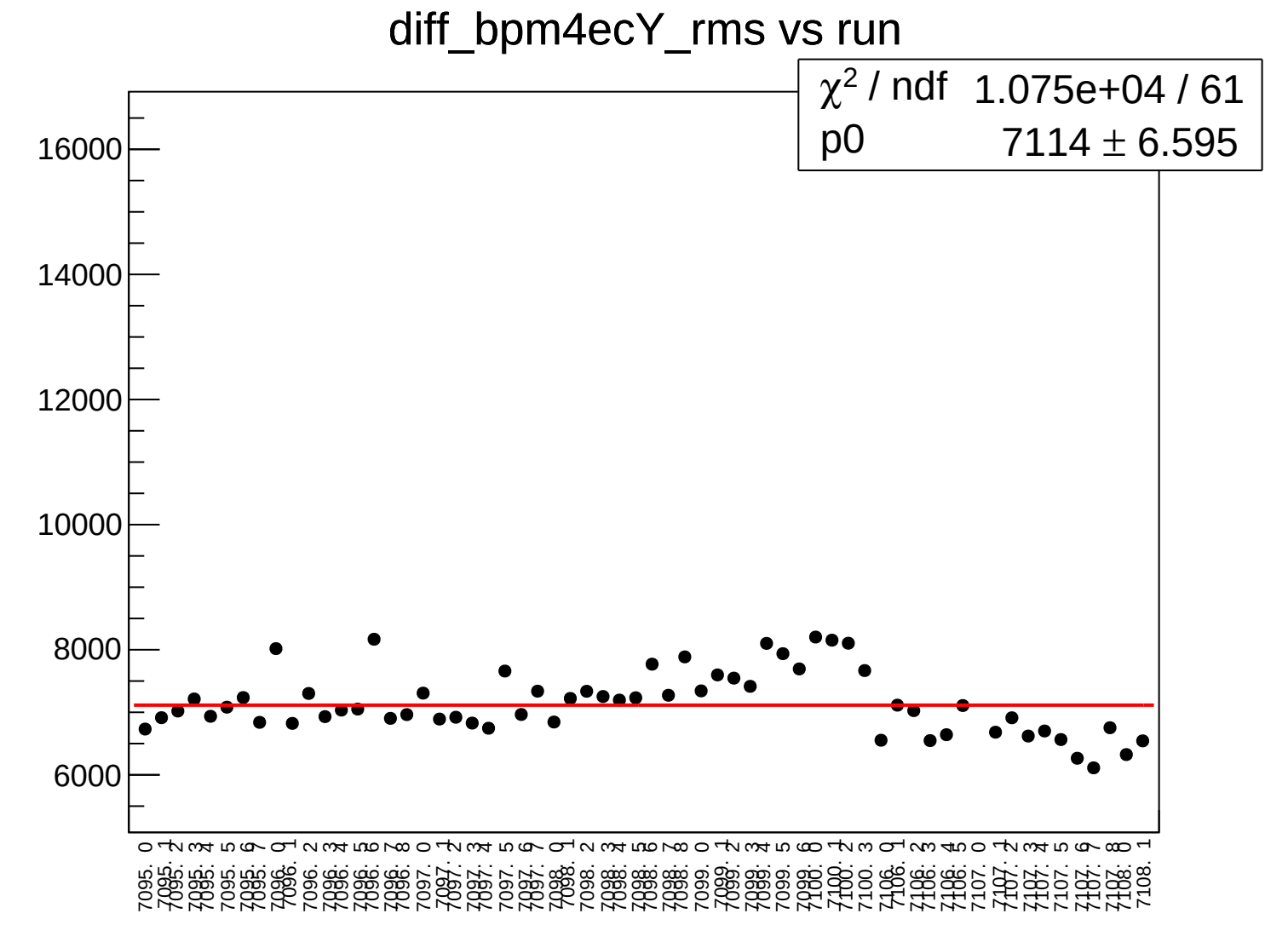

pull
Entries 62
Mean −404
Std Dev 430.6

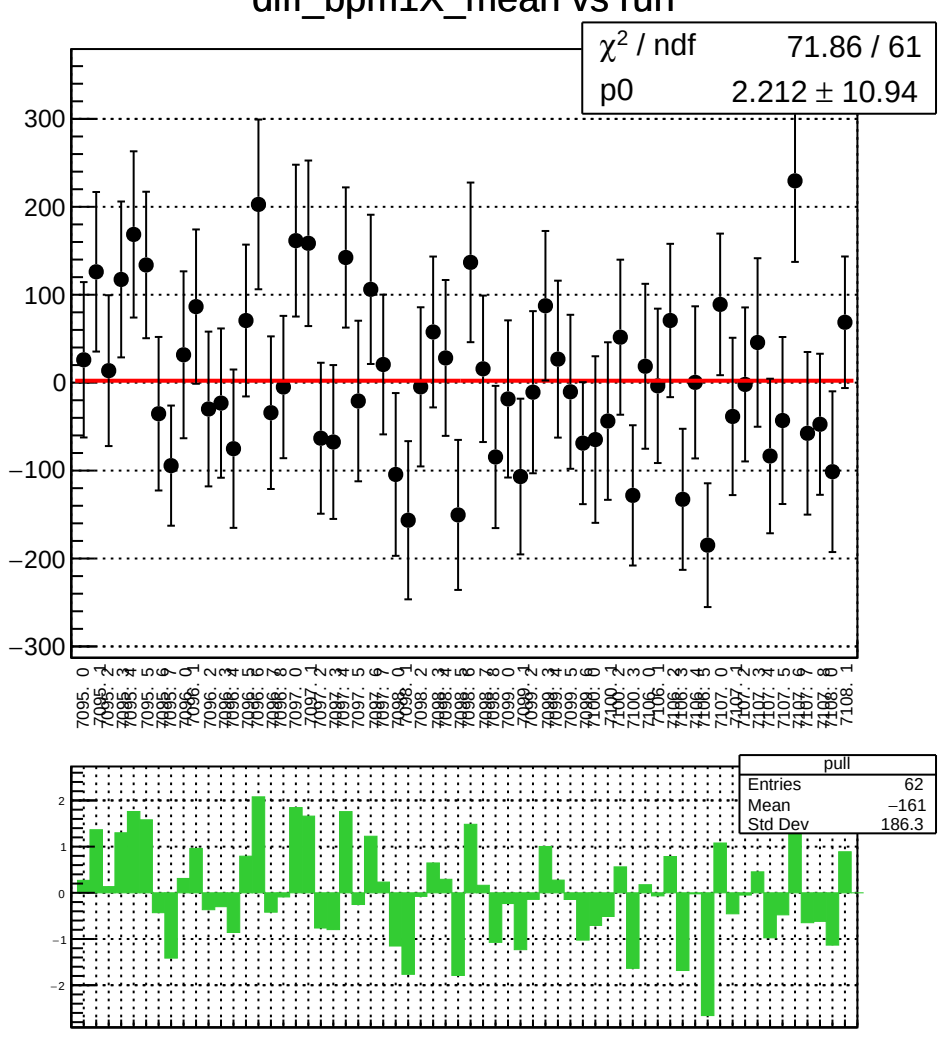

pull1D
Entries 62
Mean 0.01274
Std Dev 1.075

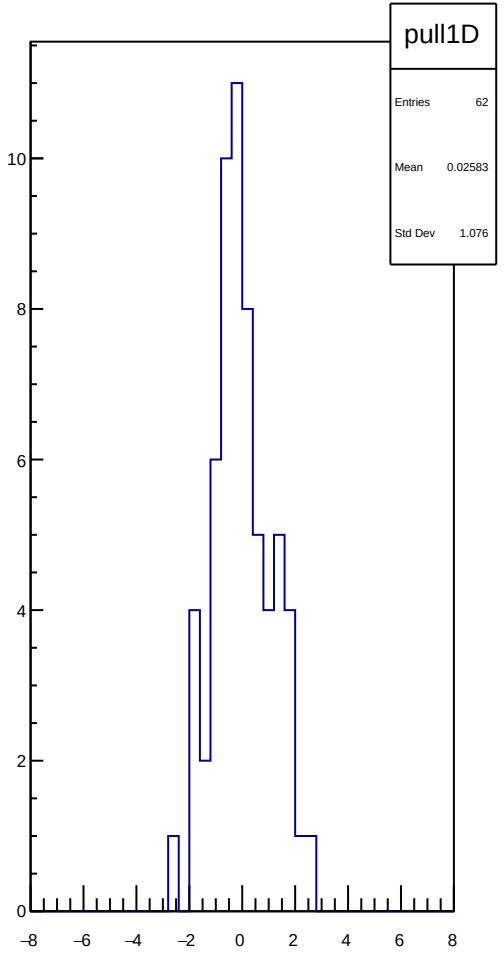

diff_bpm4ecX_rms vs run
χ² / ndf 5798 / 61
p0 8715 ± 8.062
16000
14000
12000
10000
8000

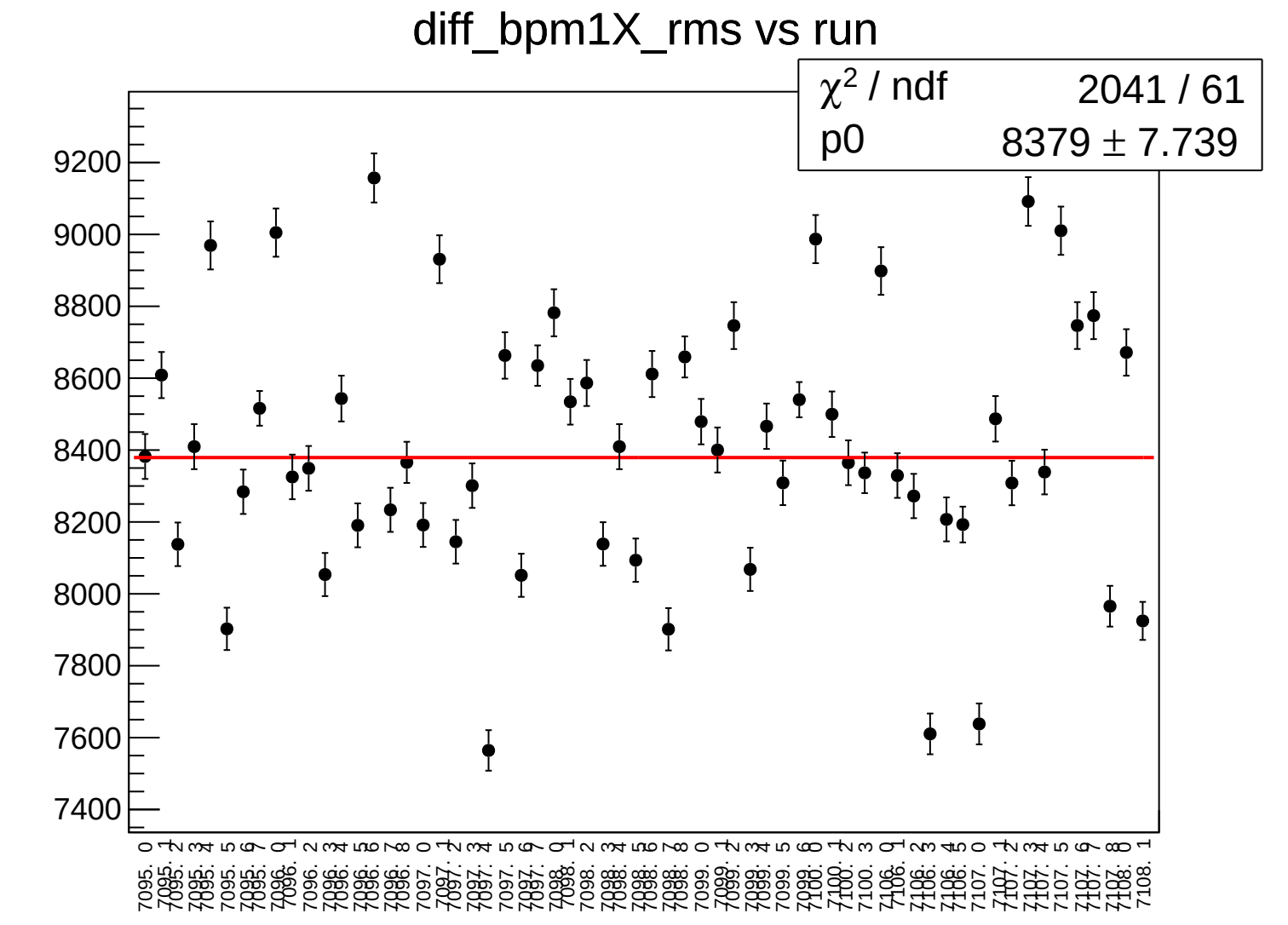

diff_bpm4ecY_mean vs run
χ^2 / ndf 58.75 / 61
p0 17.56 ± 9.327
pull
Entries 62
Mean 211.8
Std Dev 182.7

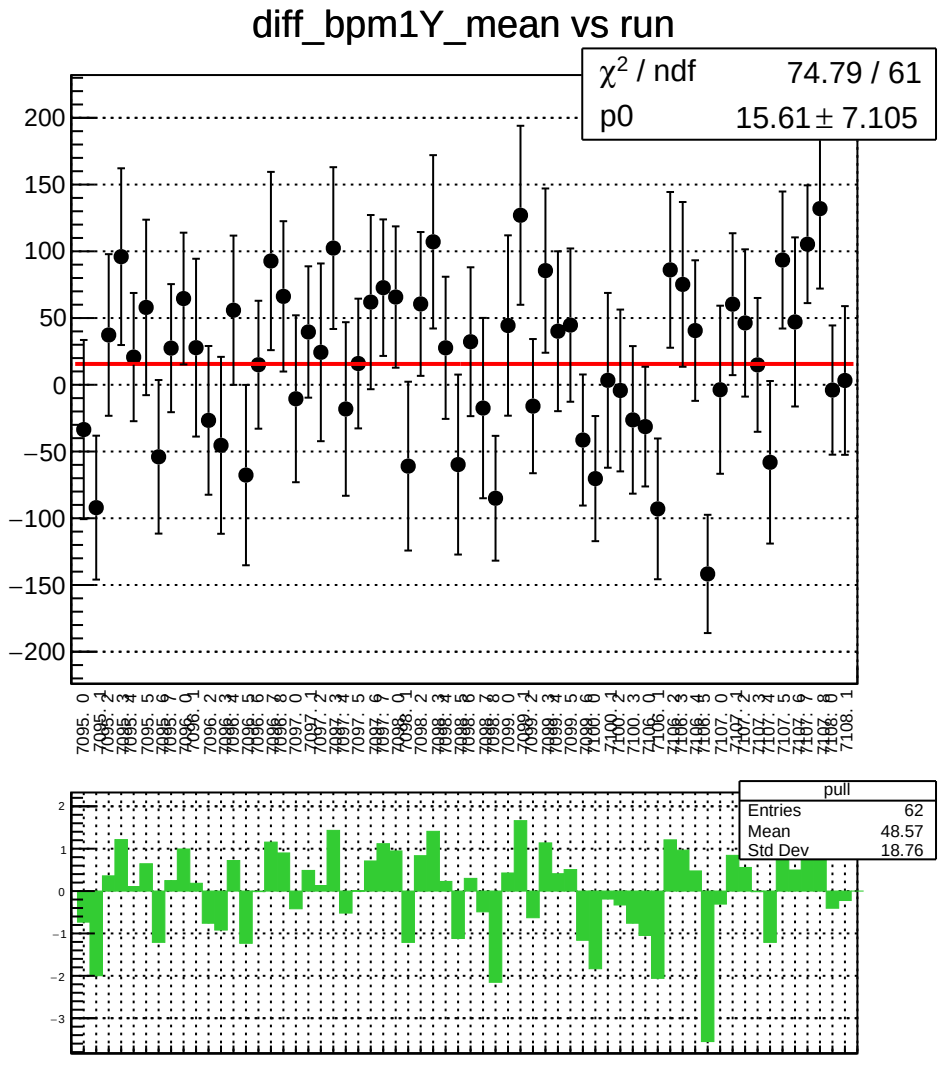

pull1D
Entries 62
Mean 0.01788
Std Dev 0.9733

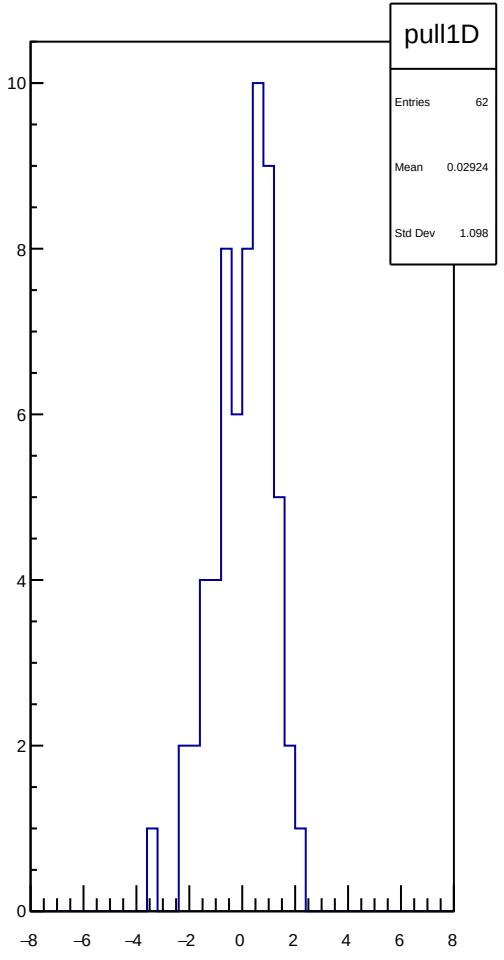

diff_bpm4ecY_rms vs run
χ² / ndf 1.075e+04 / 61
p0 7114 ± 6.595
16000
14000
12000
10000
8000
6000

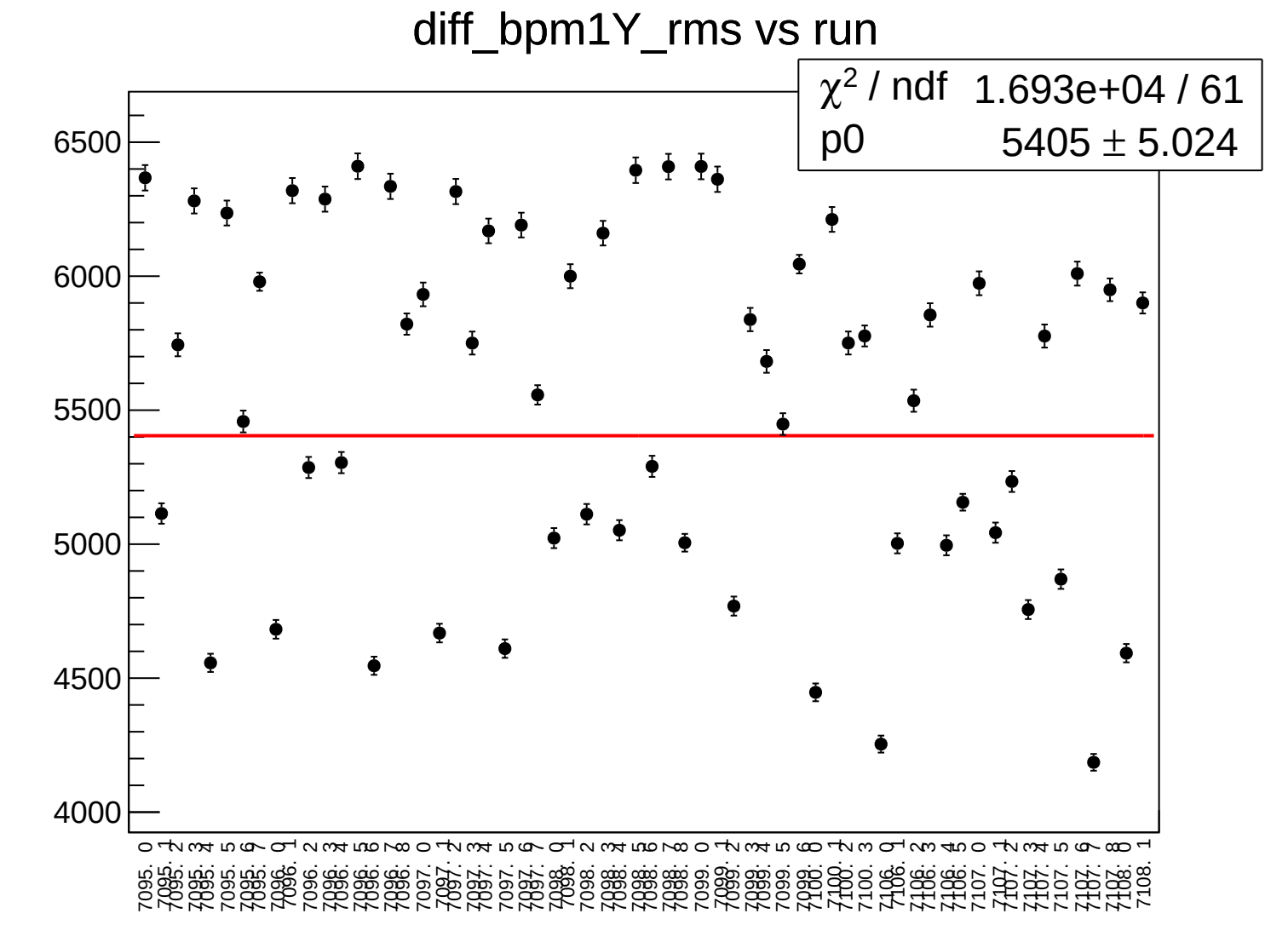

diff_bpm1X_mean vs run
χ² / ndf 71.86 / 61
p0 2.212 ± 10.94
pull
Entries 62
Mean −161
Std Dev 186.3


pull1D
Entries 62
Mean 0.02583
Std Dev 1.076


diff_bpm1X_rms vs run
χ^2 / ndf 2041 / 61
p0 8379 ± 7.739
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400


diff_bpm1Y_mean vs run
χ² / ndf 74.79 / 61
p0 15.61 ± 7.105
pull
Entries 62
Mean 48.57
Std Dev 18.76


pull1D
Entries 62
Mean 0.02924
Std Dev 1.098


diff_bpm1Y_rms vs run
χ² / ndf 1.693e+04 / 61
p0 5405 ± 5.024
6500
6000
5500
5000
4500
4000
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
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7096. 6
7096. 7
7096. 8
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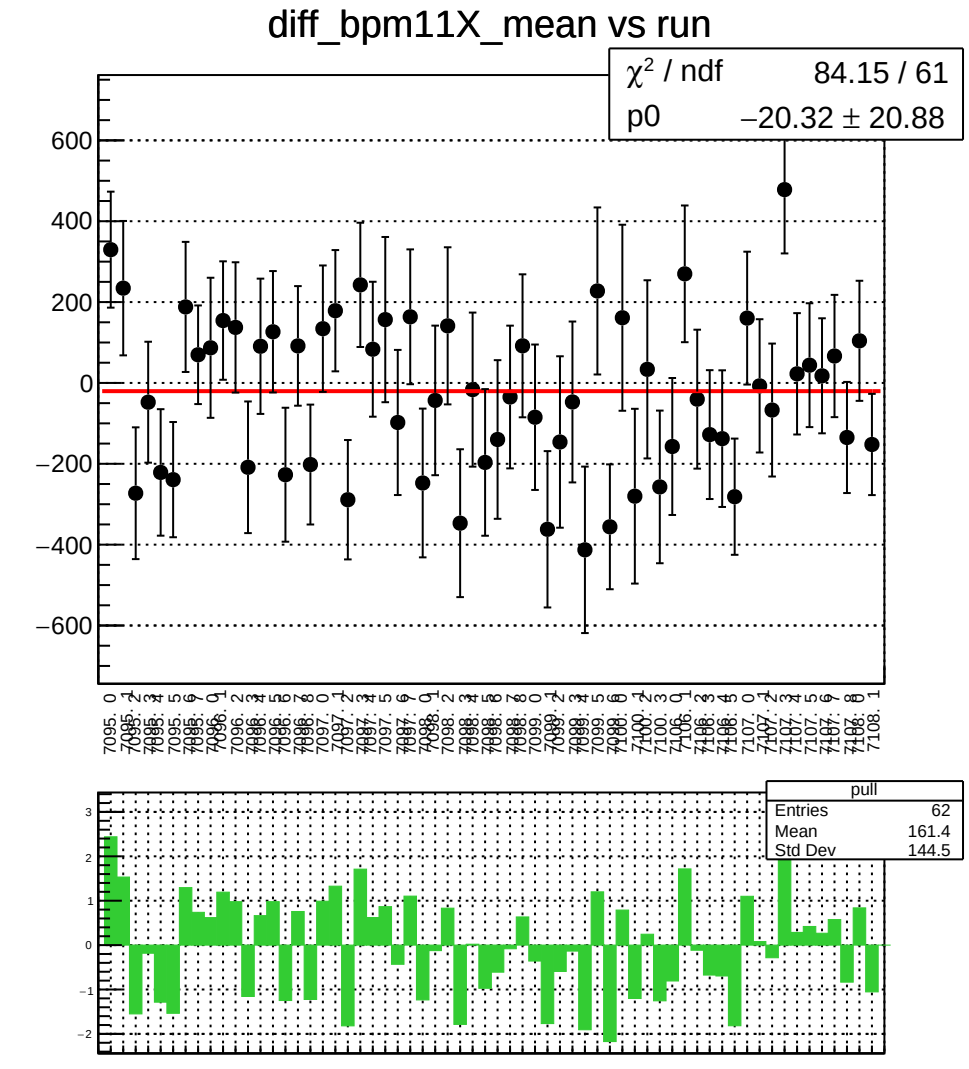
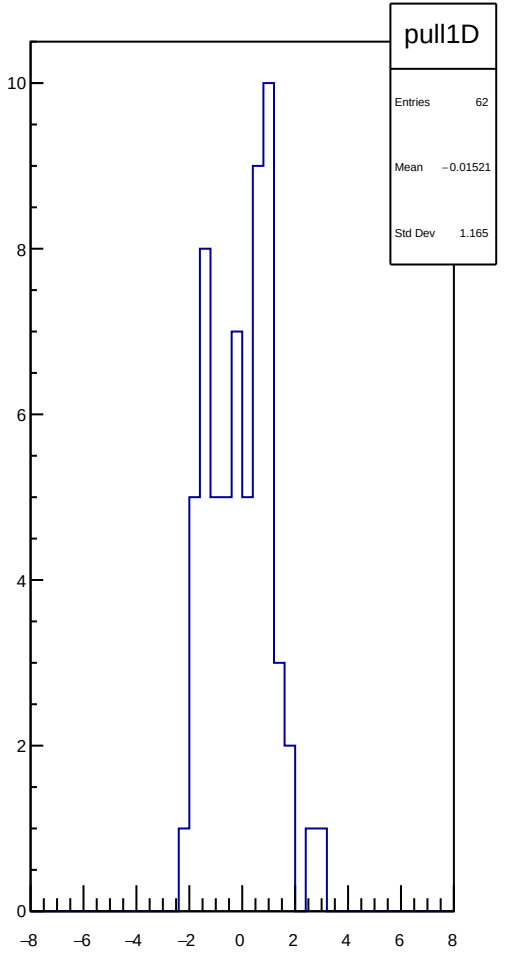
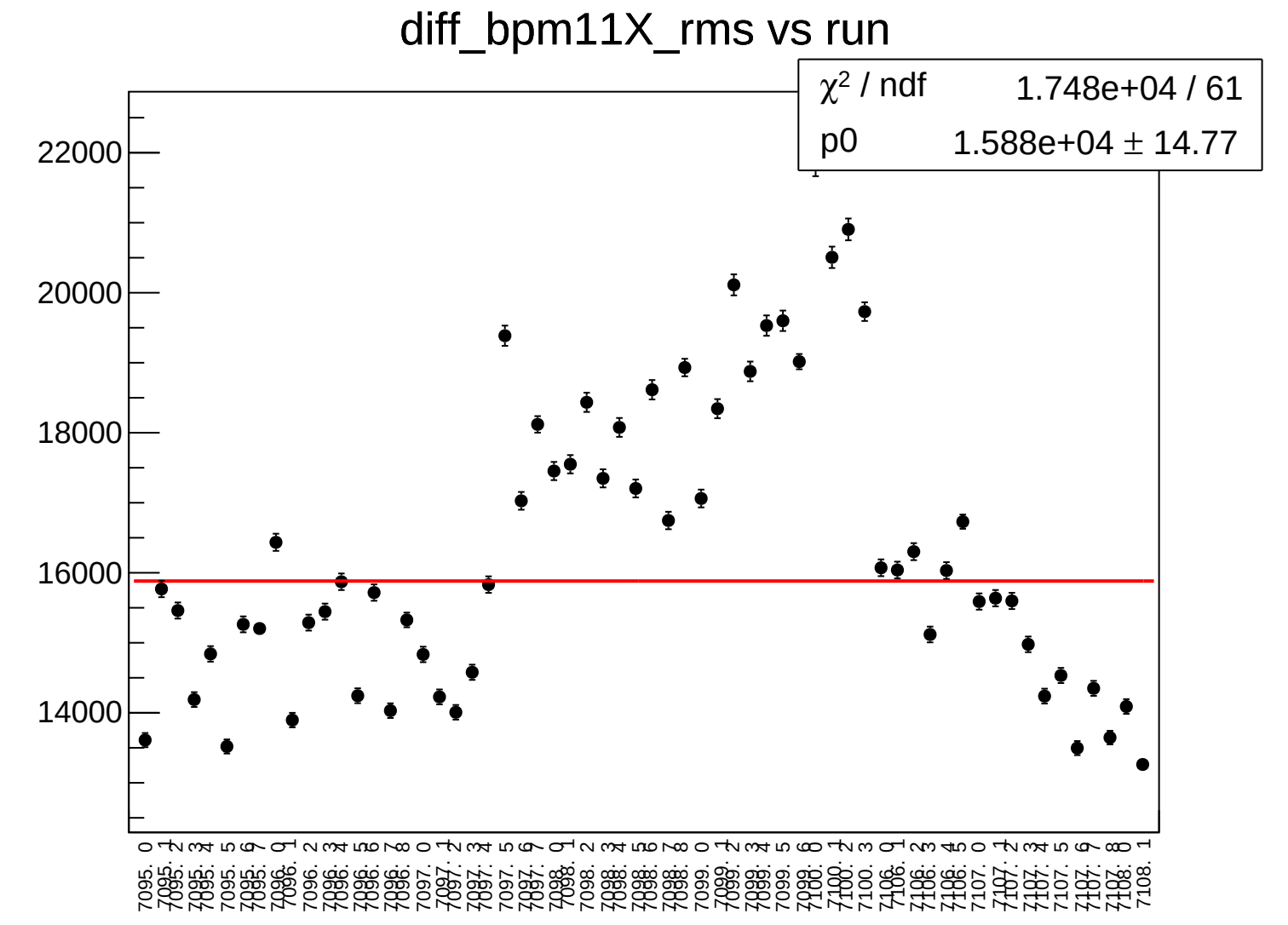
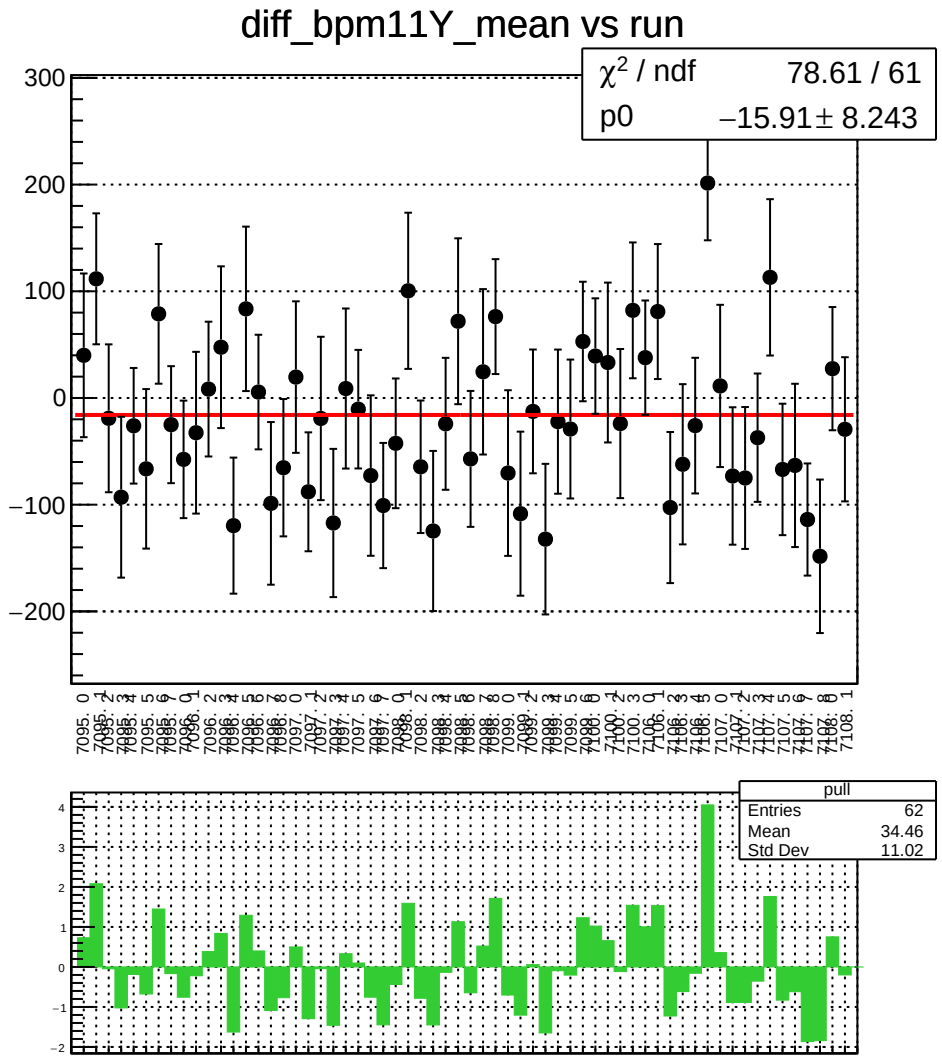
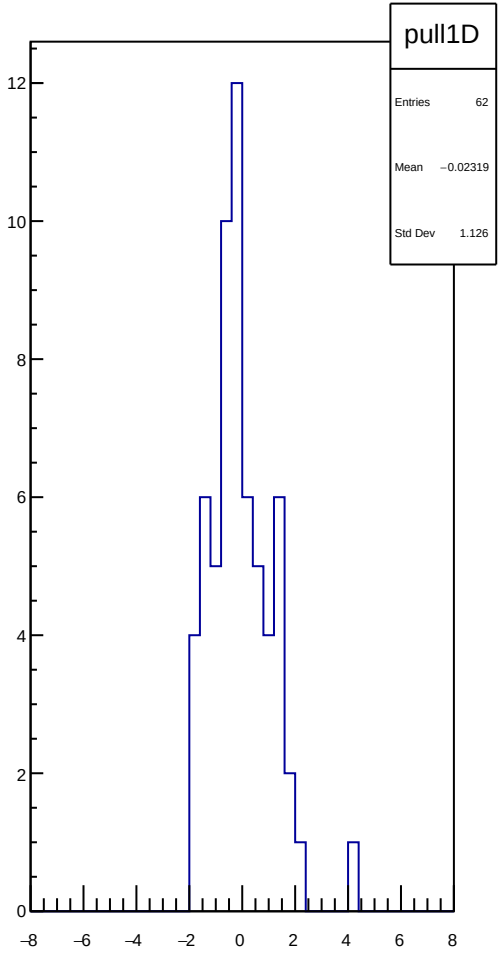
7108. 1

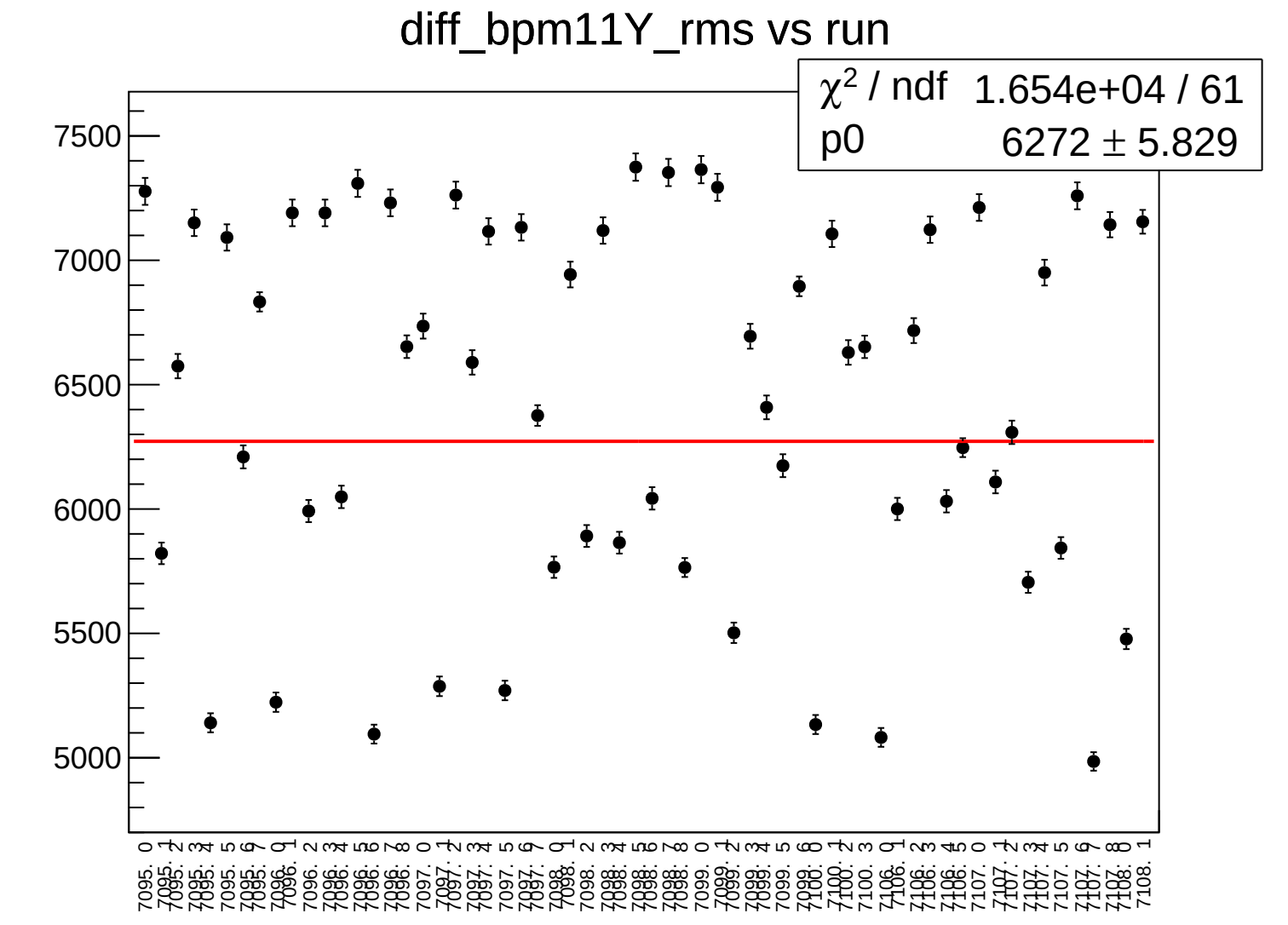

diff_bpm11X_mean vs run
χ² / ndf 84.15 / 61
p0 −20.32 ± 20.88
pull
Entries 62
Mean 161.4
Std Dev 144.5

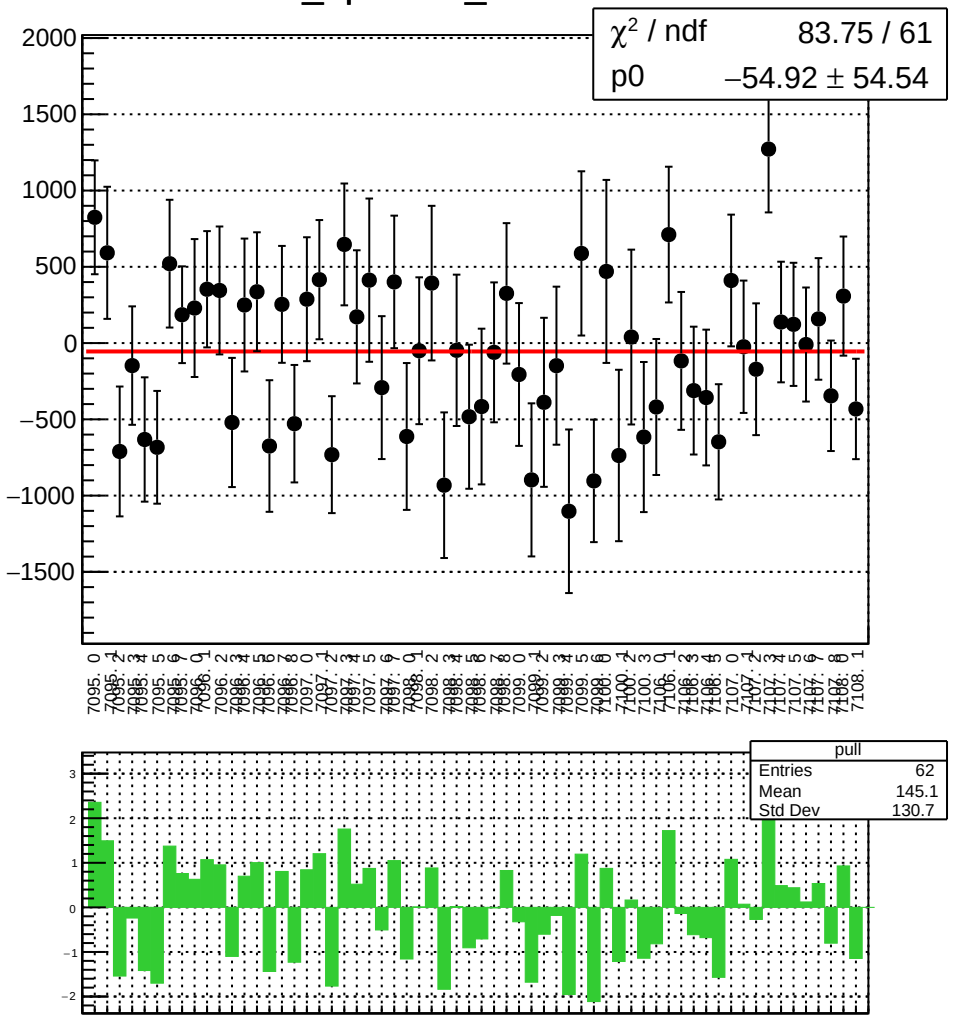

pull1D
Entries 62
Mean −0.01521
Std Dev 1.165

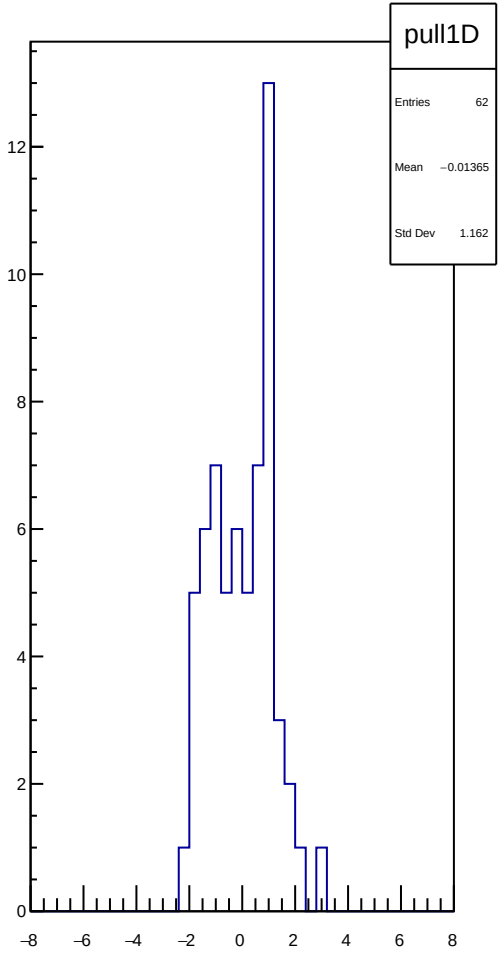

diff_bpm11X_rms vs run
χ² / ndf 1.748e+04 / 61
p0 1.588e+04 ± 14.77
22000
20000
18000
16000
14000

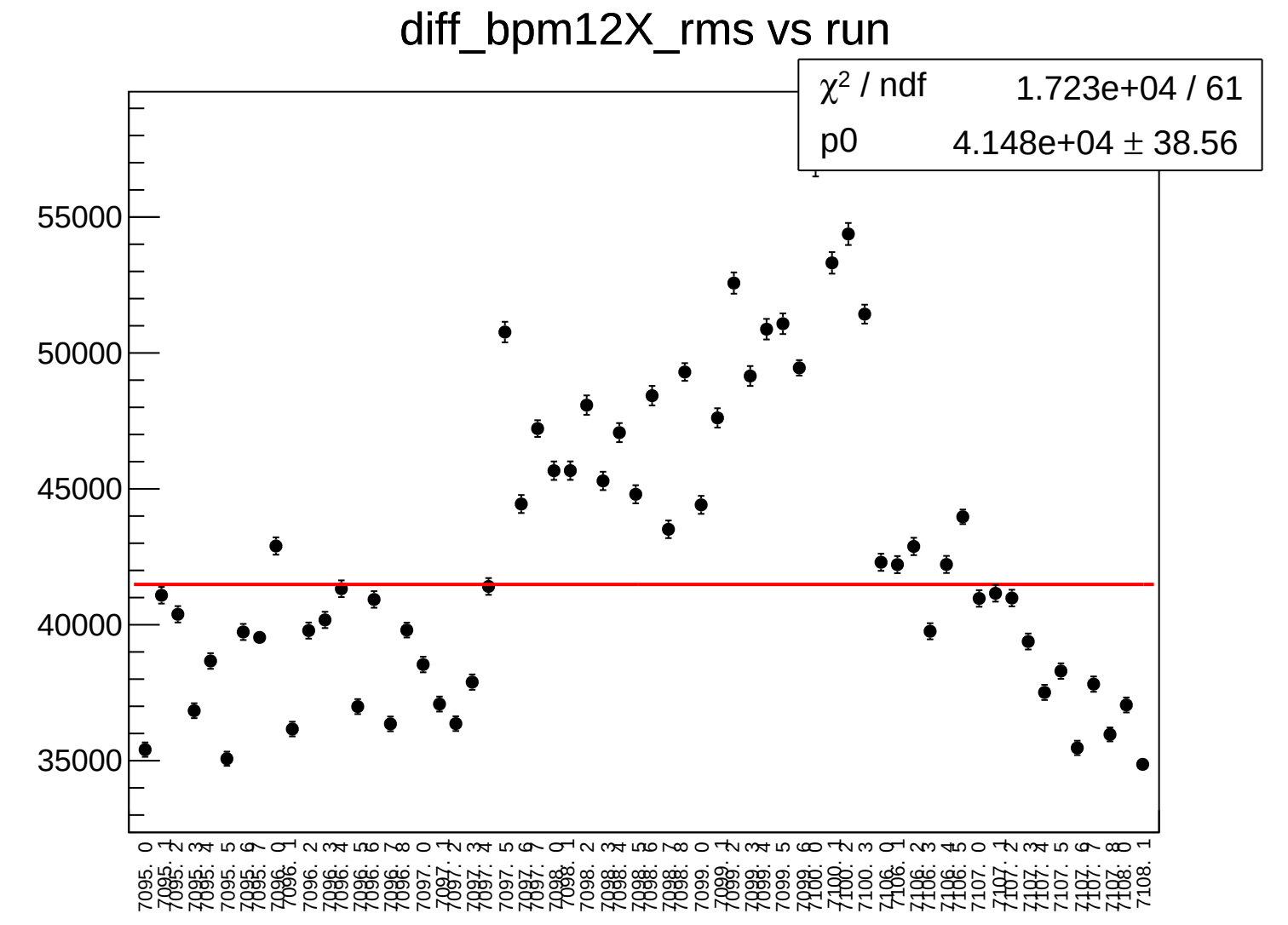

diff_bpm11Y_mean vs run
χ² / ndf 78.61 / 61
p0 −15.91 ± 8.243
pull
Entries 62
Mean 34.46
Std Dev 11.02

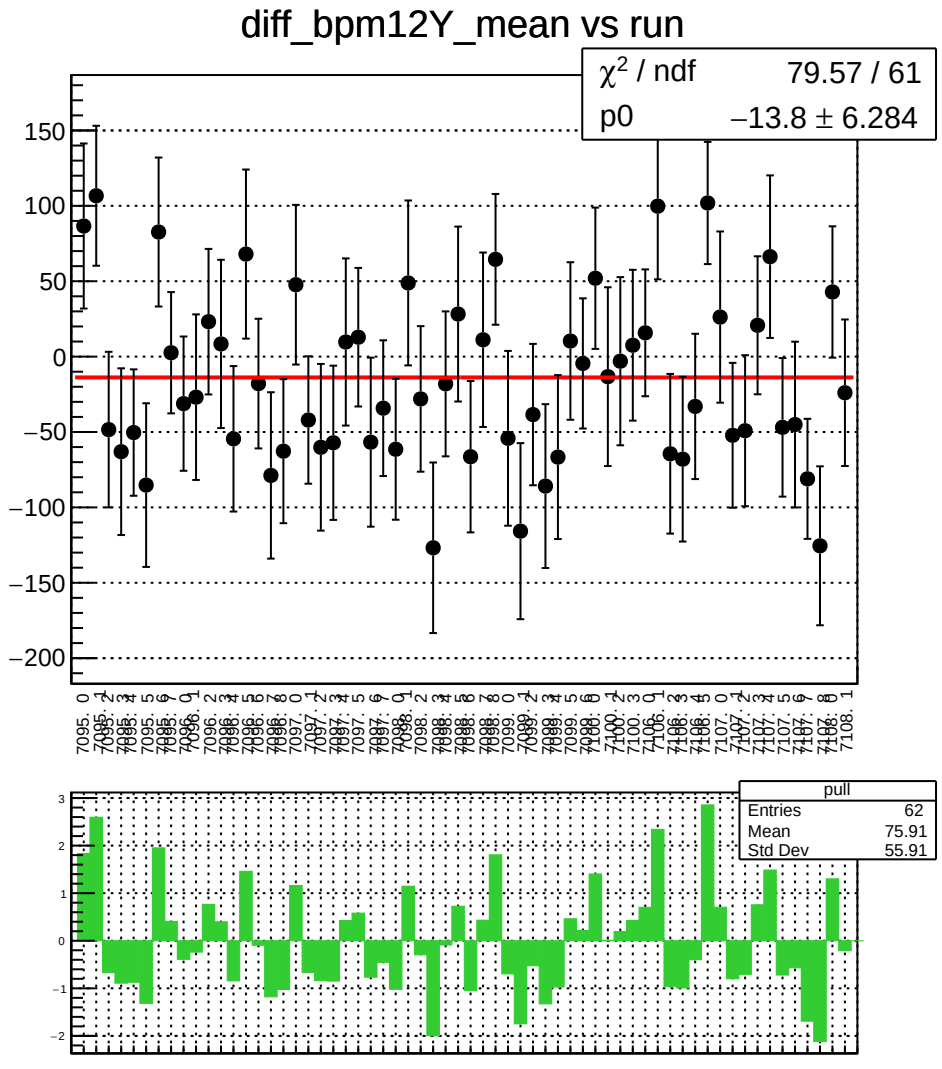

pull1D
Entries 62
Mean −0.02319
Std Dev 1.126

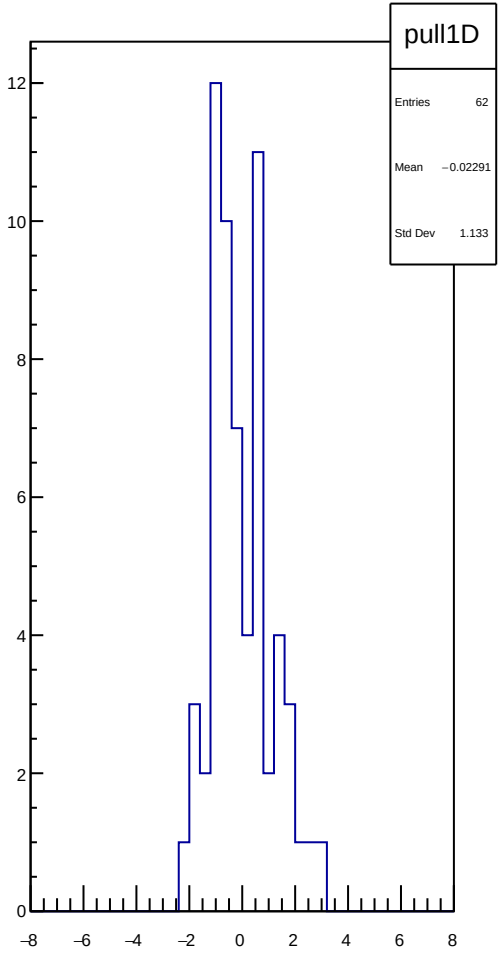

diff_bpm11Y_rms vs run
χ² / ndf 1.654e+04 / 61
p0 6272 ± 5.829
7500
7000
6500
6000
5500
5000

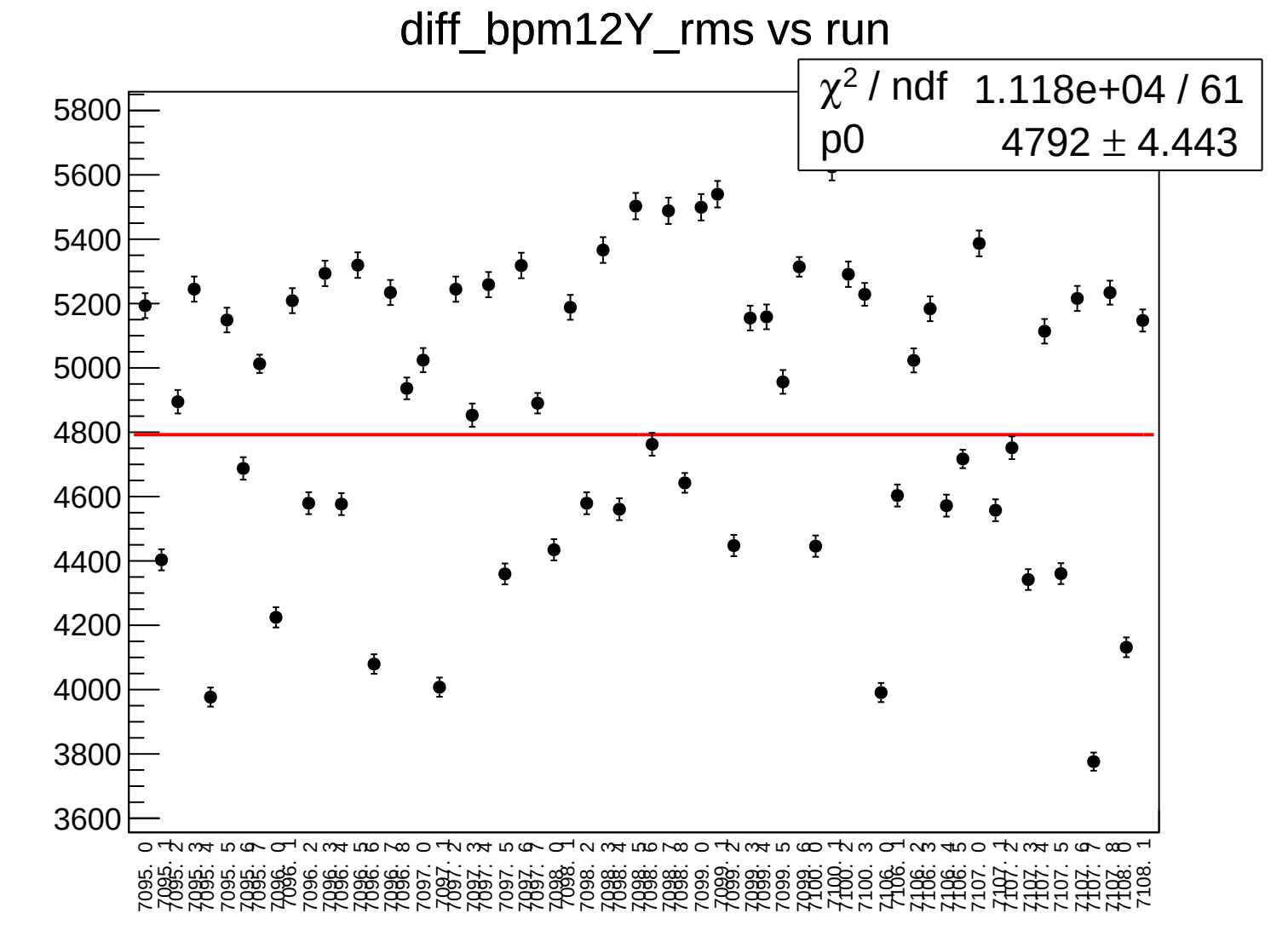

diff_bpm12X_mean vs run
χ^2 / ndf 83.75 / 61
p0 −54.92 ± 54.54
pull
Entries 62
Mean 145.1
Std Dev 130.7

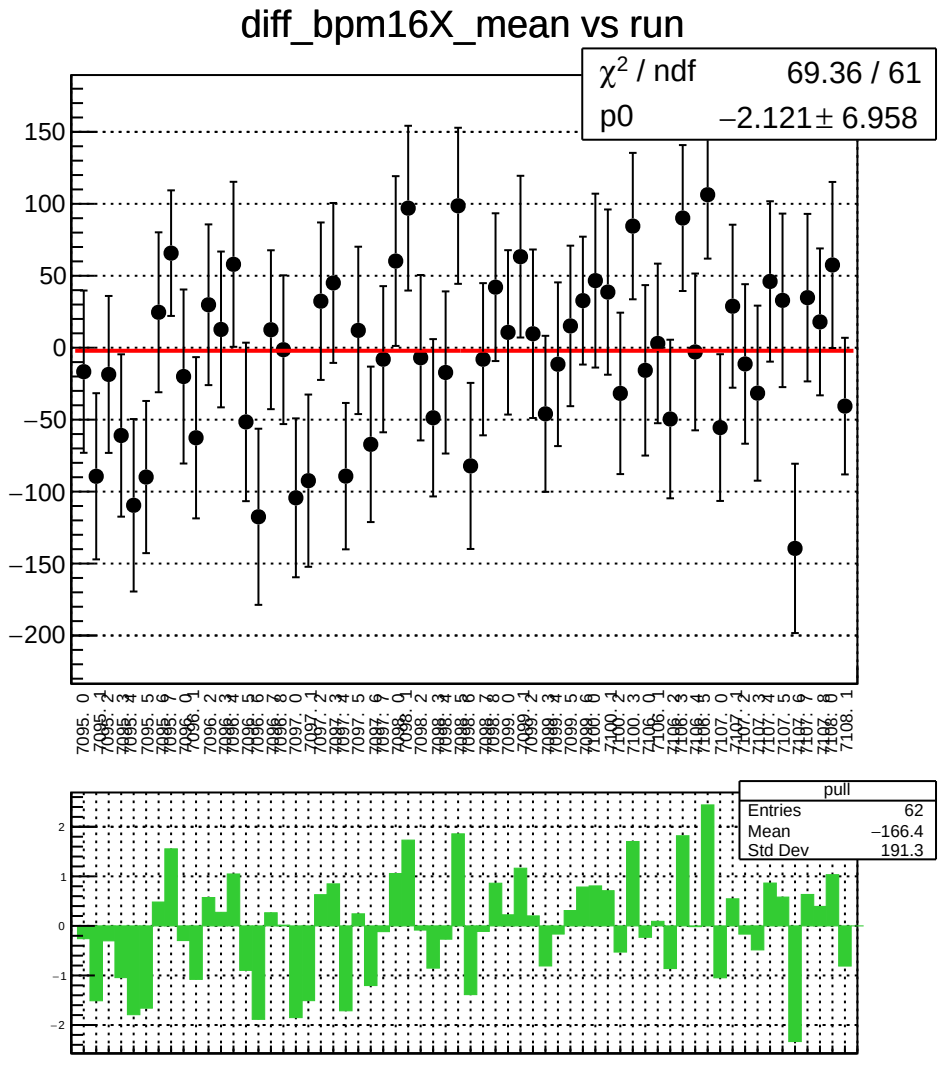

pull1D
Entries 62
Mean −0.01365
Std Dev 1.162

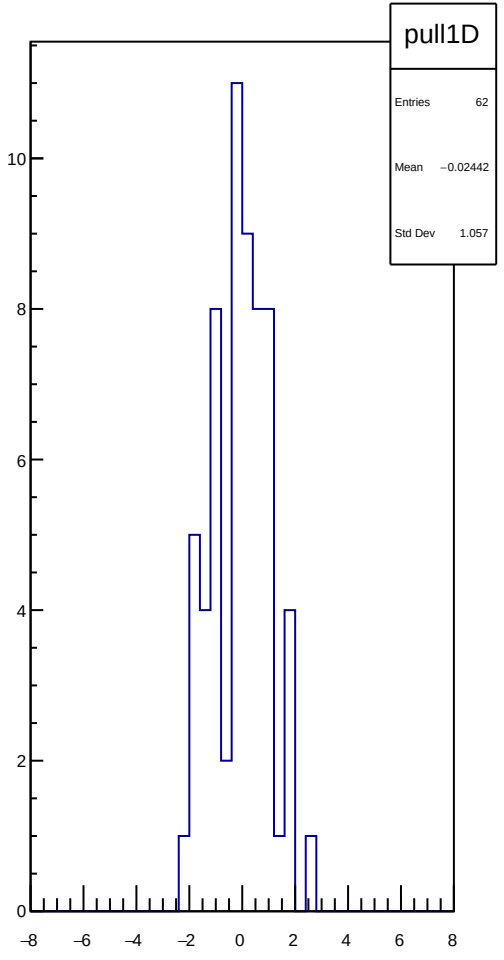

diff_bpm12X_rms vs run
χ² / ndf 1.723e+04 / 61
p0 4.148e+04 ± 38.56
55000
50000
45000
40000
35000

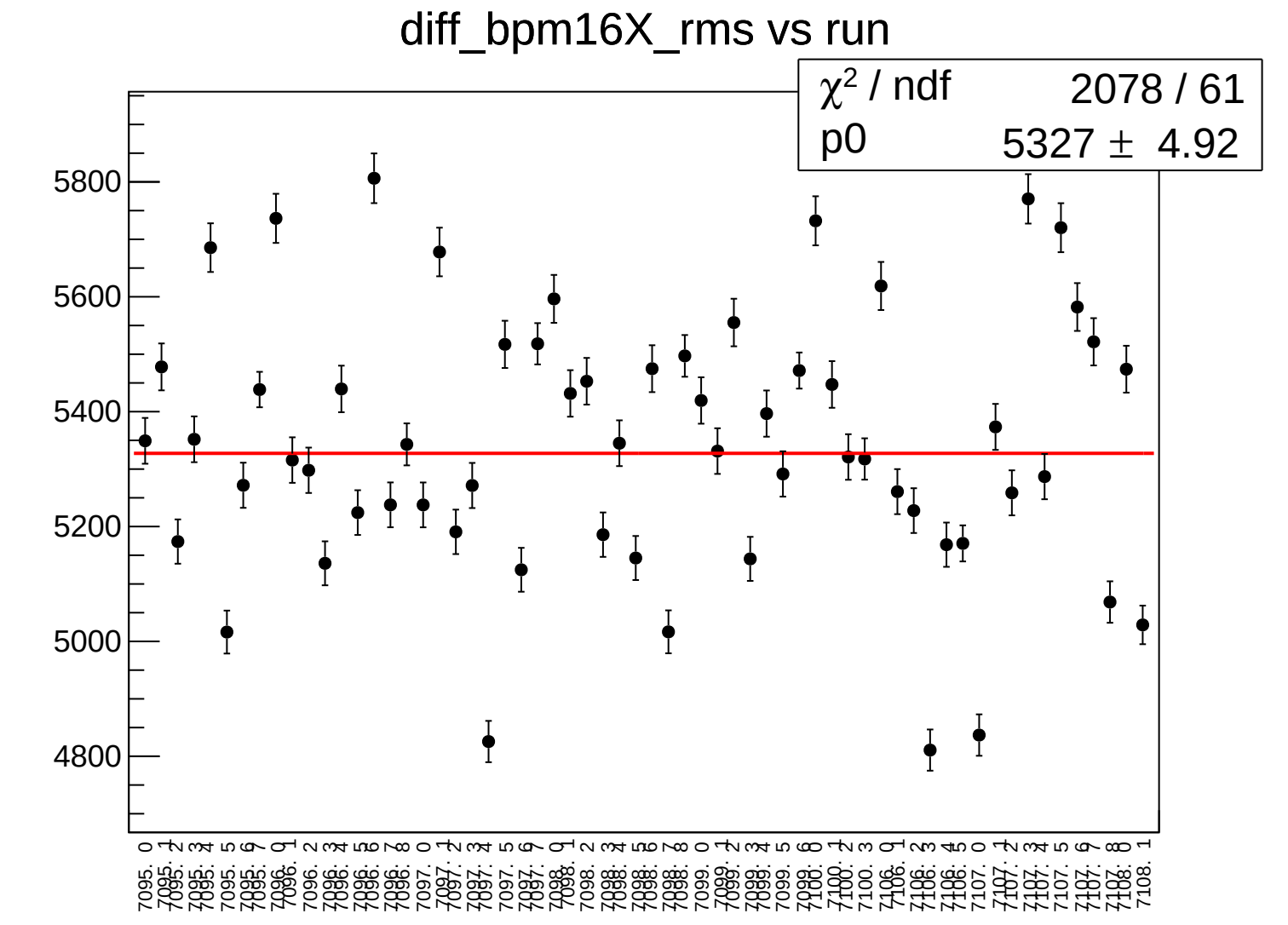

diff_bpm12Y_mean vs run
χ² / ndf 79.57 / 61
p0 −13.8 ± 6.284
pull
Entries 62
Mean 75.91
Std Dev 55.91

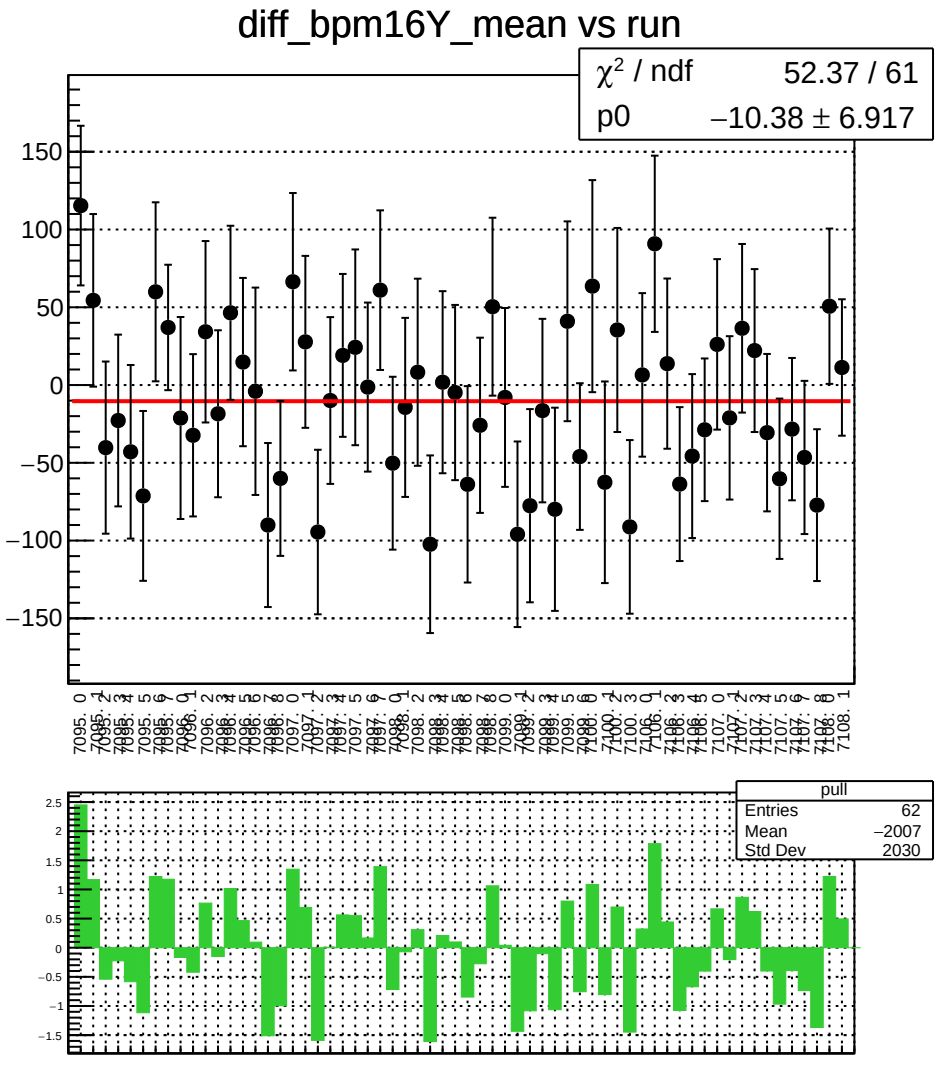

pull1D
Entries 62
Mean −0.02291
Std Dev 1.133

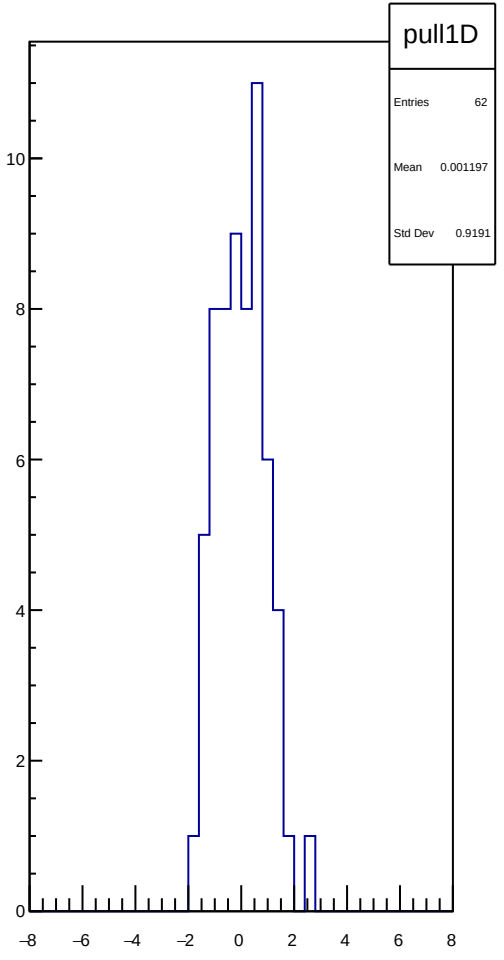

diff_bpm12Y_rms vs run
χ² / ndf 1.118e+04 / 61
p0 4792 ± 4.443
5800
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800
3600
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

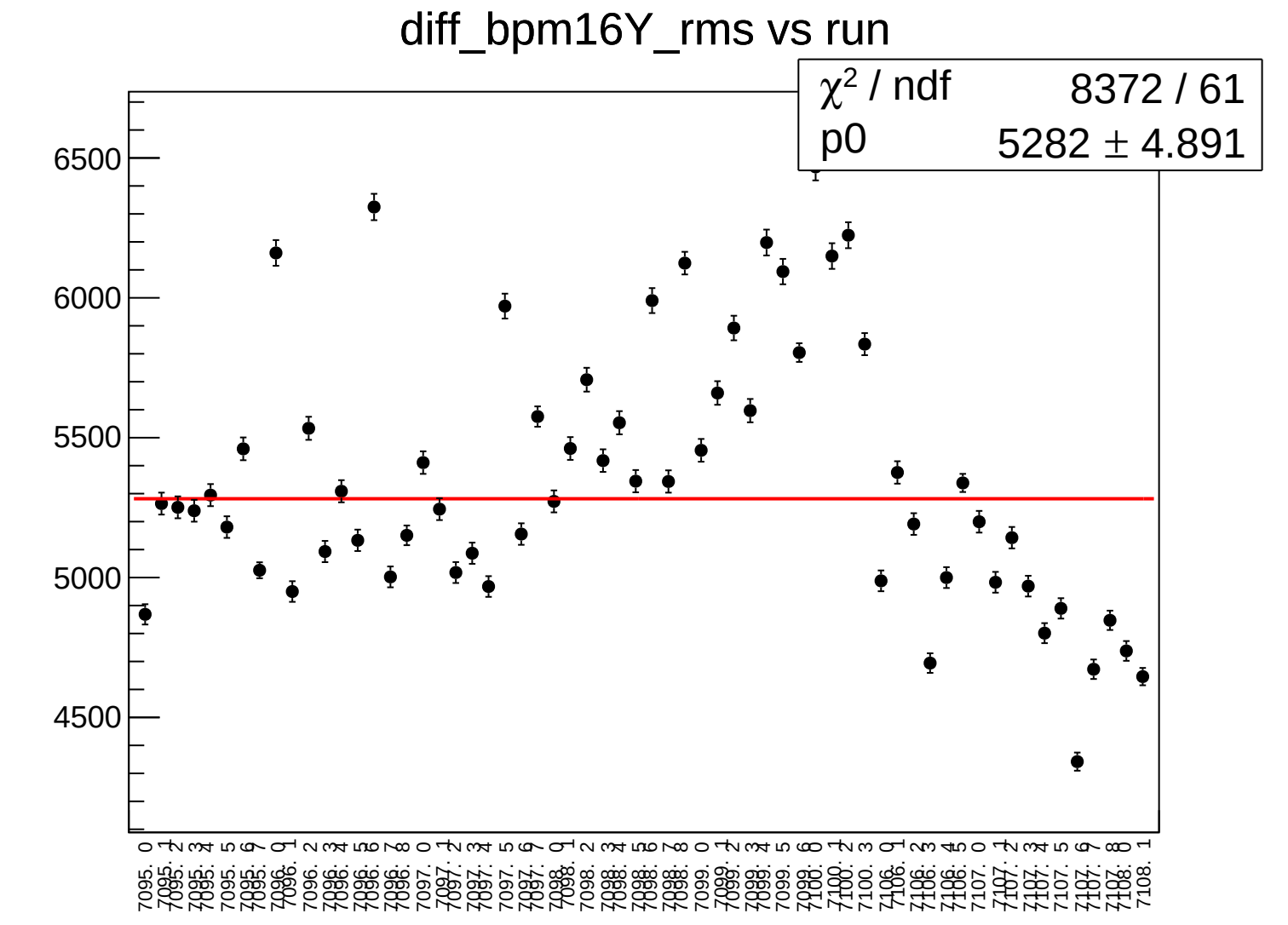

diff_bpm16X_mean vs run
χ^2 / ndf 69.36 / 61
p0 −2.121± 6.958
150
100
50
0
−50
−100
−150
−200
pull
Entries 62
Mean −166.4
Std Dev 191.3
2
1
0
−1
−2

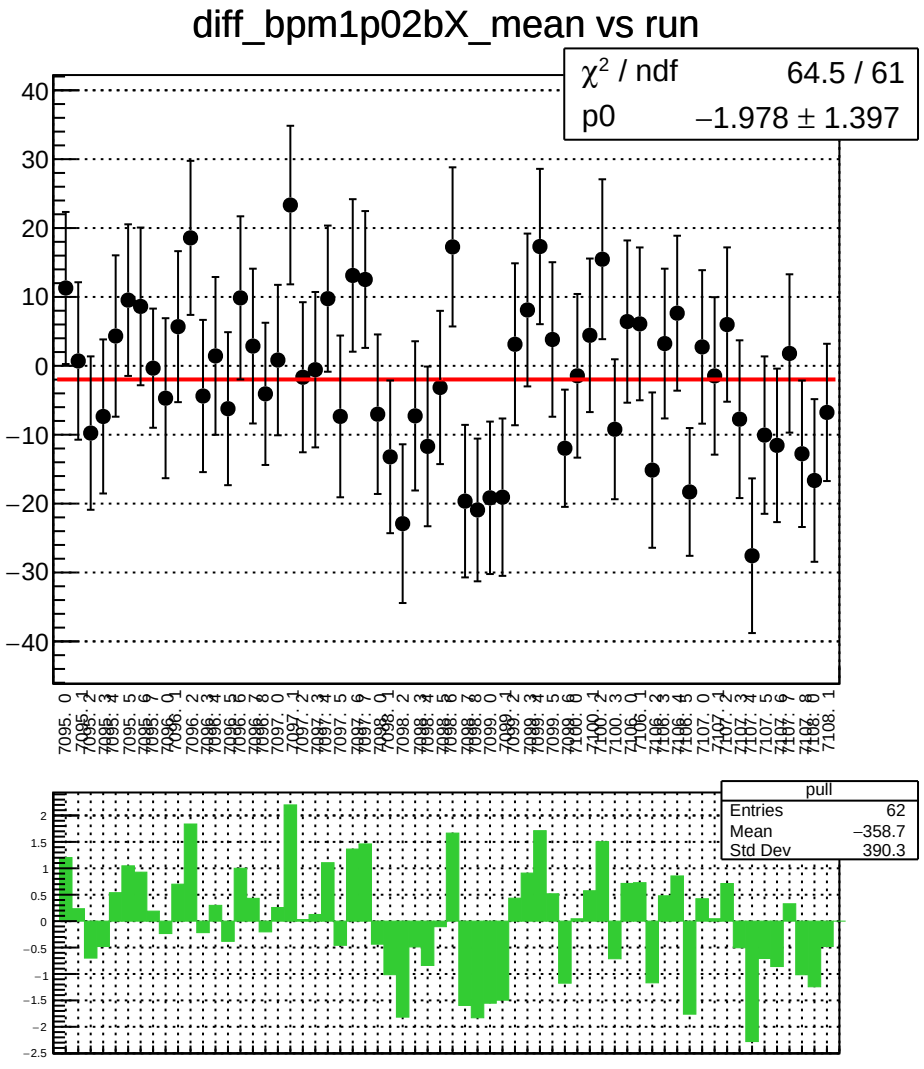

pull1D
Entries 62
Mean −0.02442
Std Dev 1.057
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

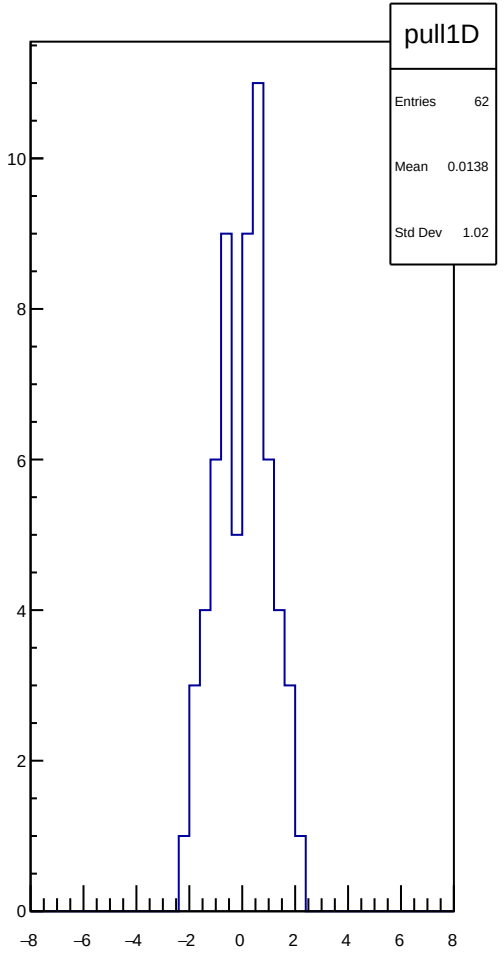

diff_bpm16X_rms vs run
χ² / ndf 2078 / 61
p0 5327 ± 4.92
5800
5600
5400
5200
5000
4800
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7101. 0
7101. 1
7101. 2
7101. 3
7101. 4
7101. 5
7101. 6
7101. 7
7101. 8
7101. 9
7102. 0
7102. 1
7102. 2
7102. 3
7102. 4
7102. 5
7102. 6
7102. 7
7102. 8
7102. 9
7103. 0
7103. 1
7103. 2
7103. 3
7103. 4
7103. 5
7103. 6
7103. 7
7103. 8
7103. 9
7104. 0
7104. 1
7104. 2
7104. 3
7104. 4
7104. 5
7104. 6
7104. 7
7104. 8
7104. 9
7105. 0
7105. 1
7105. 2
7105. 3
7105. 4
7105. 5
7105. 6
7105. 7
7105. 8
7105. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

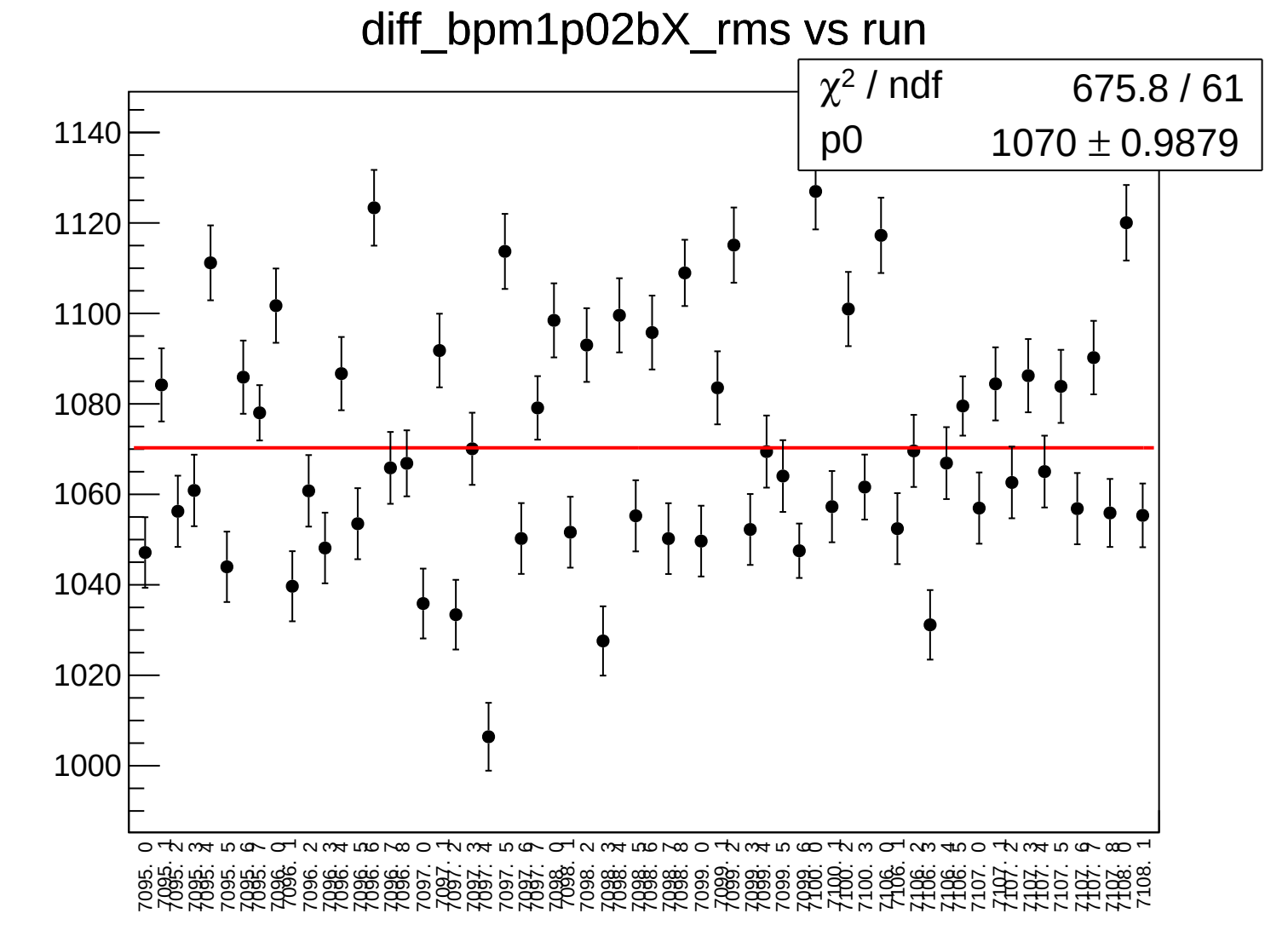

diff_bpm16Y_mean vs run
χ² / ndf 52.37 / 61
p0 −10.38 ± 6.917
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean −2007
Std Dev 2030
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

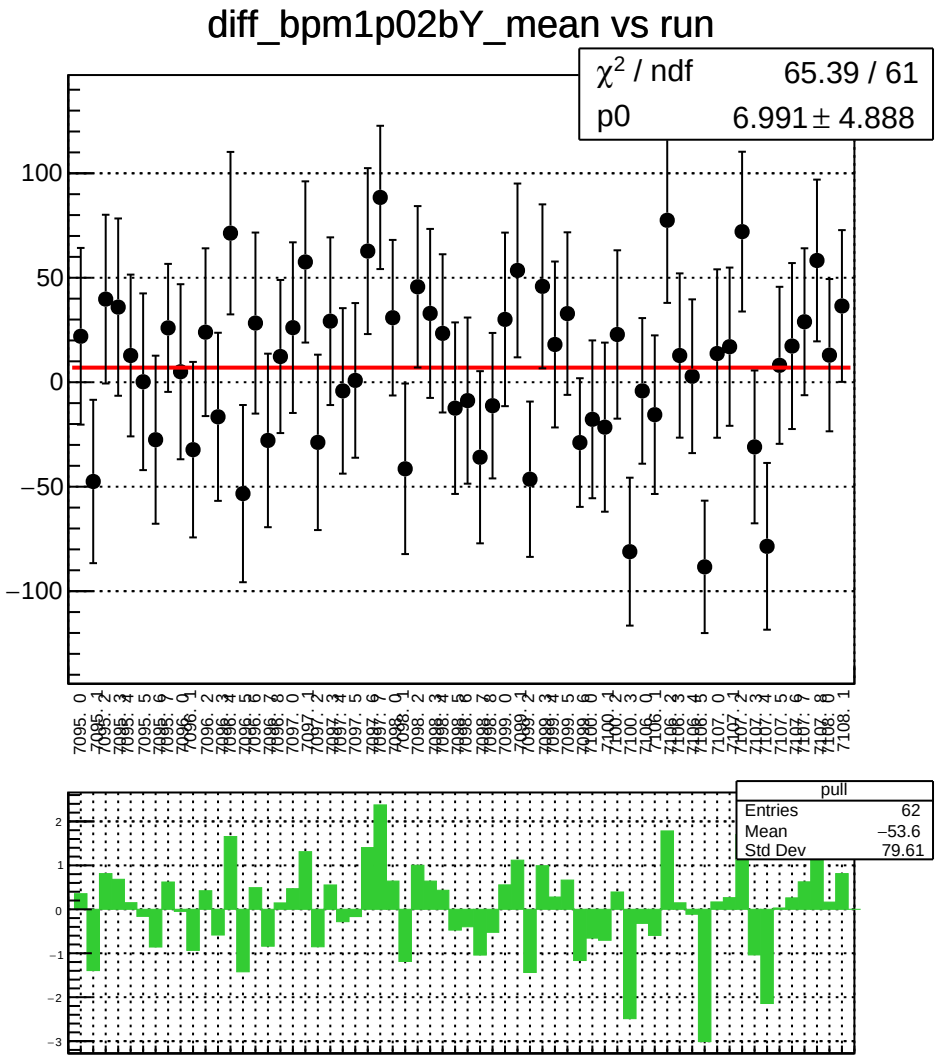

pull1D
Entries 62
Mean 0.001197
Std Dev 0.9191
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

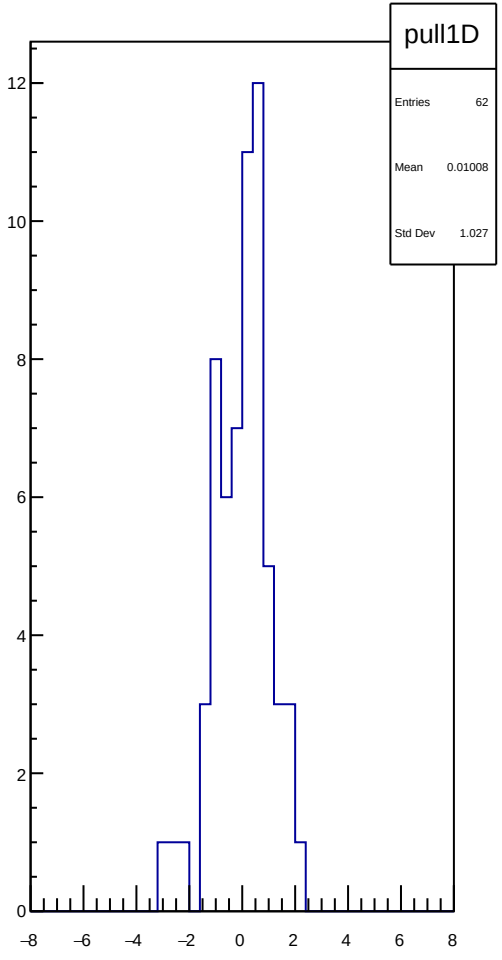

diff_bpm16Y_rms vs run
χ² / ndf 8372 / 61
p0 5282 ± 4.891
6500
6000
5500
5000
4500
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

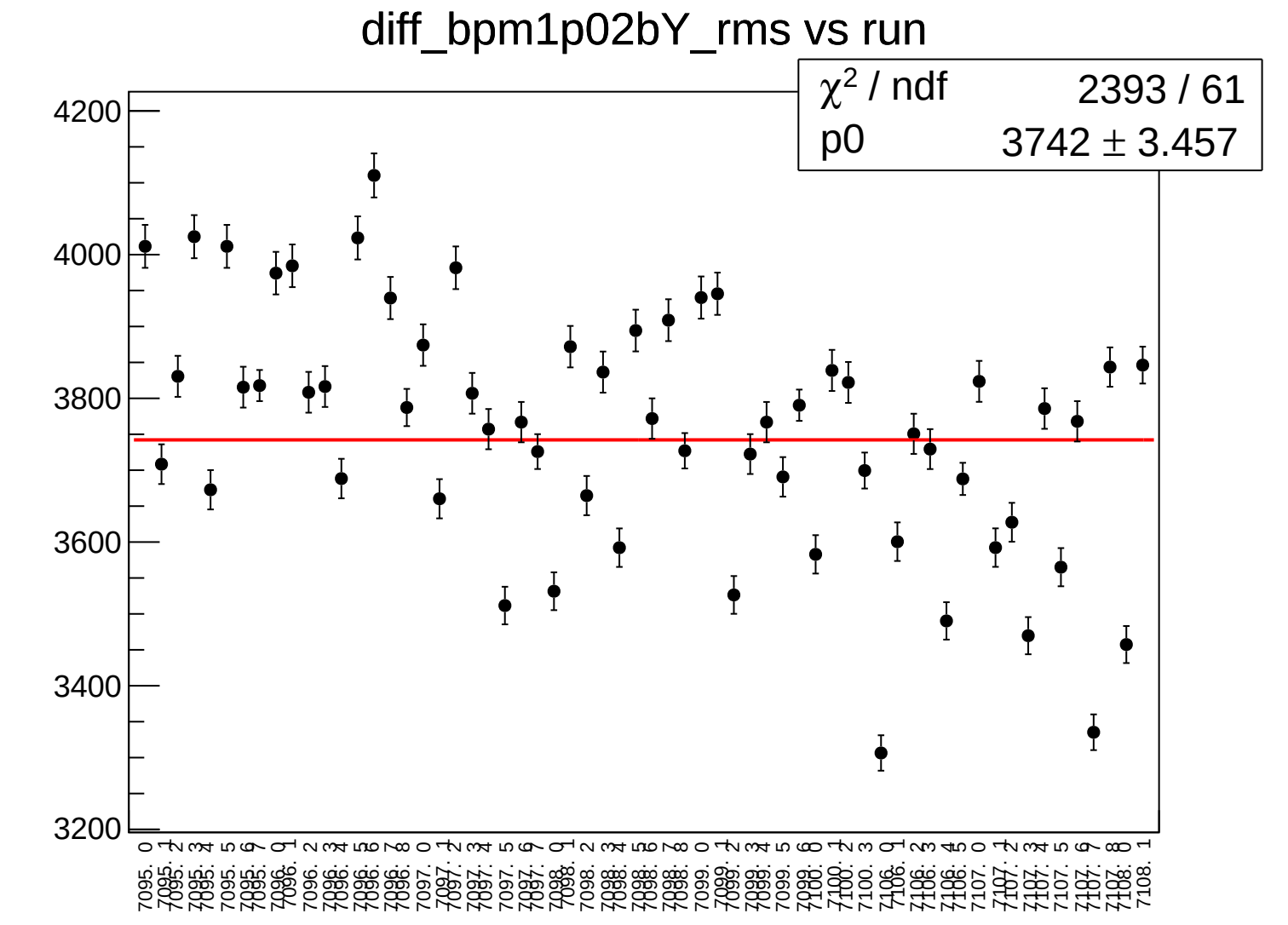

diff_bpm1p02bX_mean vs run
χ² / ndf 64.5 / 61
p0 −1.978 ± 1.397
pull
Entries 62
Mean −358.7
Std Dev 390.3

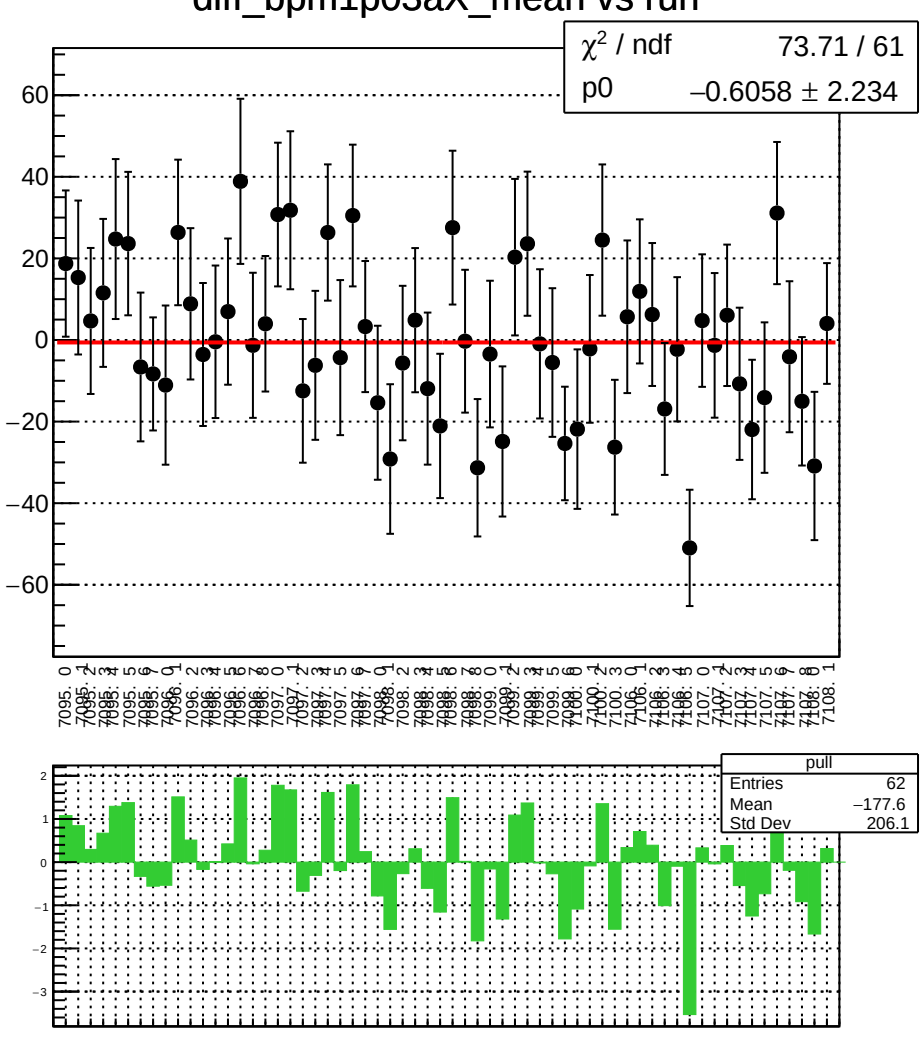

pull1D
Entries 62
Mean 0.0138
Std Dev 1.02

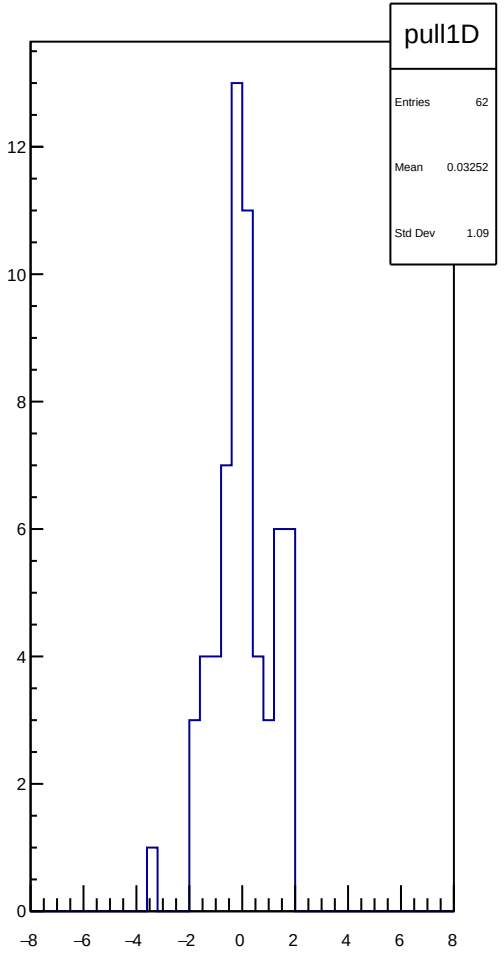

diff_bpm1p02bX_rms vs run
χ² / ndf 675.8 / 61
p0 1070 ± 0.9879
1140
1120
1100
1080
1060
1040
1020
1000

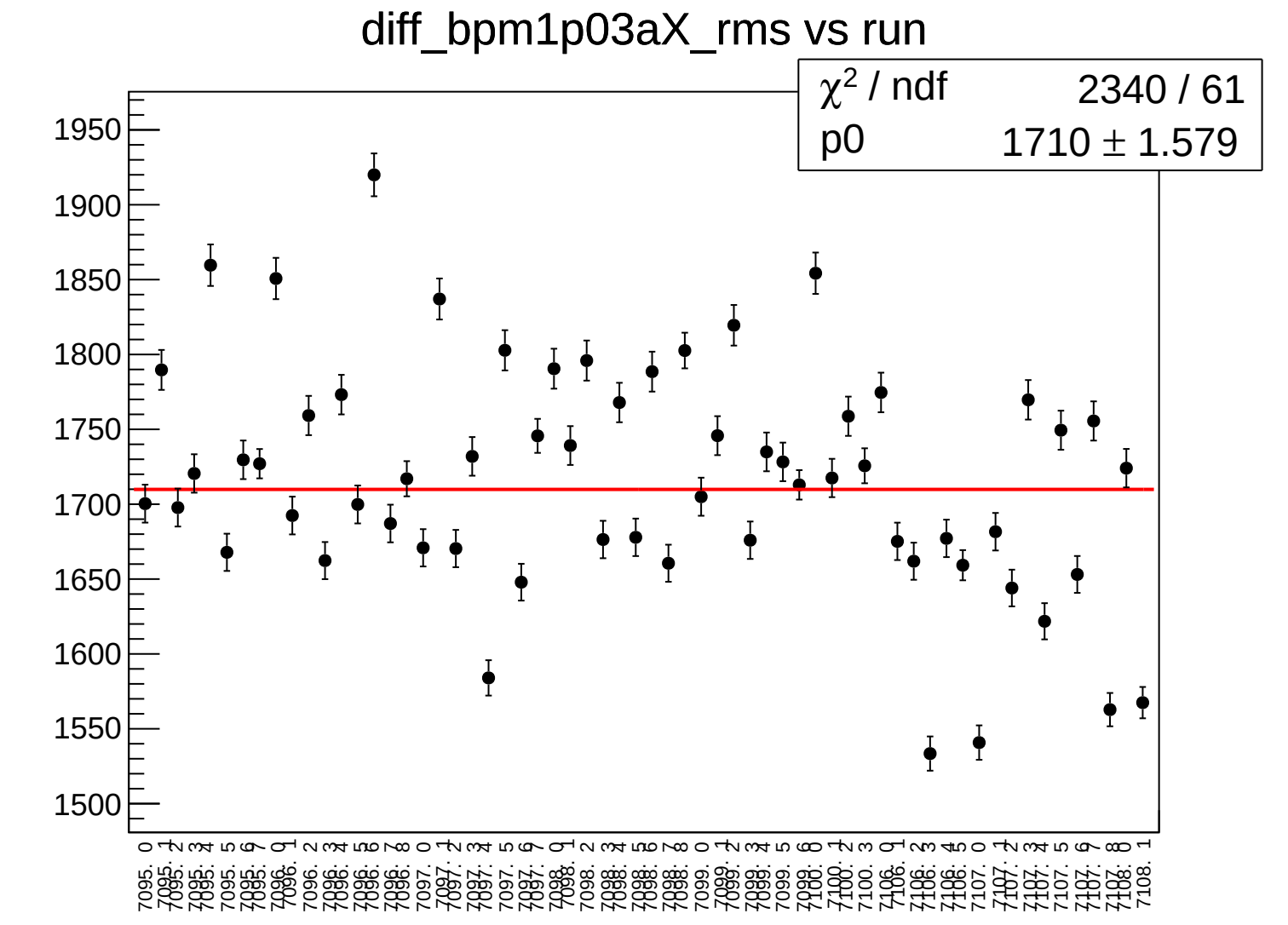

diff_bpm1p02bY_mean vs run
χ² / ndf 65.39 / 61
p0 6.991 ± 4.888
pull
Entries 62
Mean −53.6
Std Dev 79.61

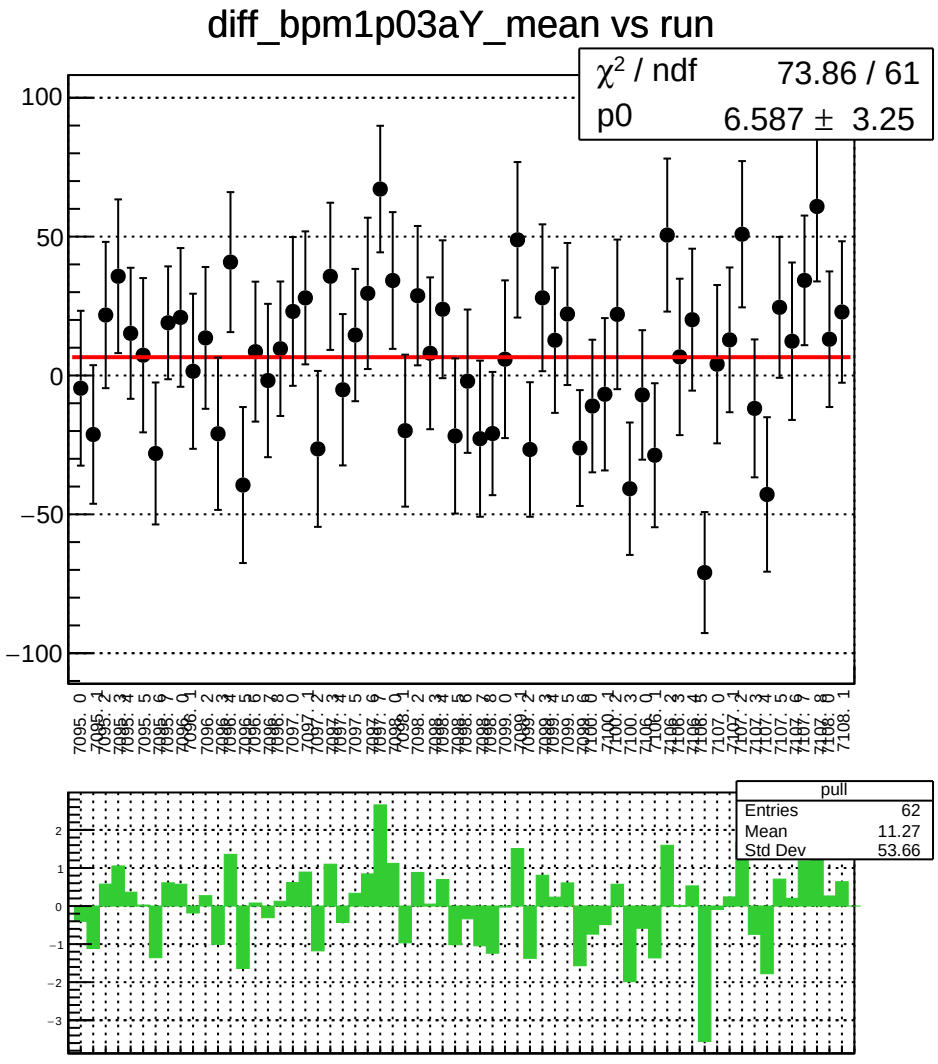

pull1D
Entries 62
Mean 0.01008
Std Dev 1.027

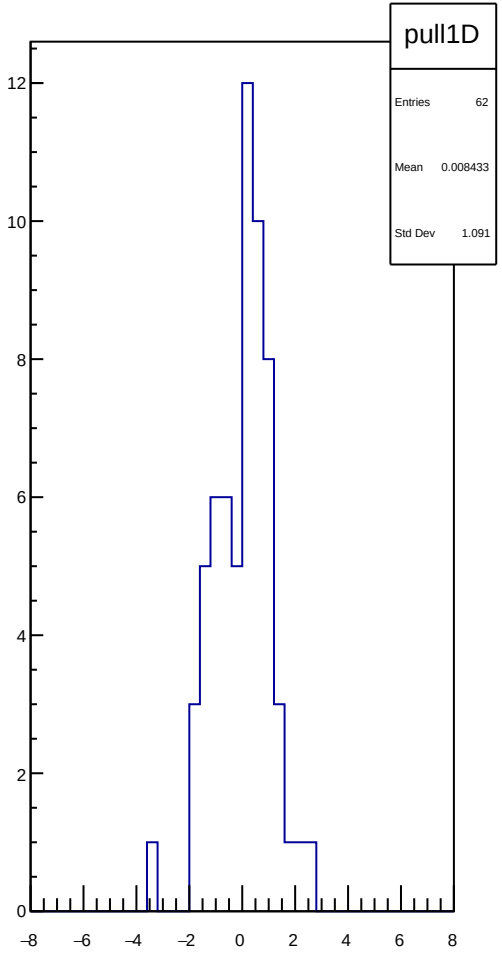

diff_bpm1p02bY_rms vs run
χ² / ndf 2393 / 61
p0 3742 ± 3.457
4200
4000
3800
3600
3400
3200

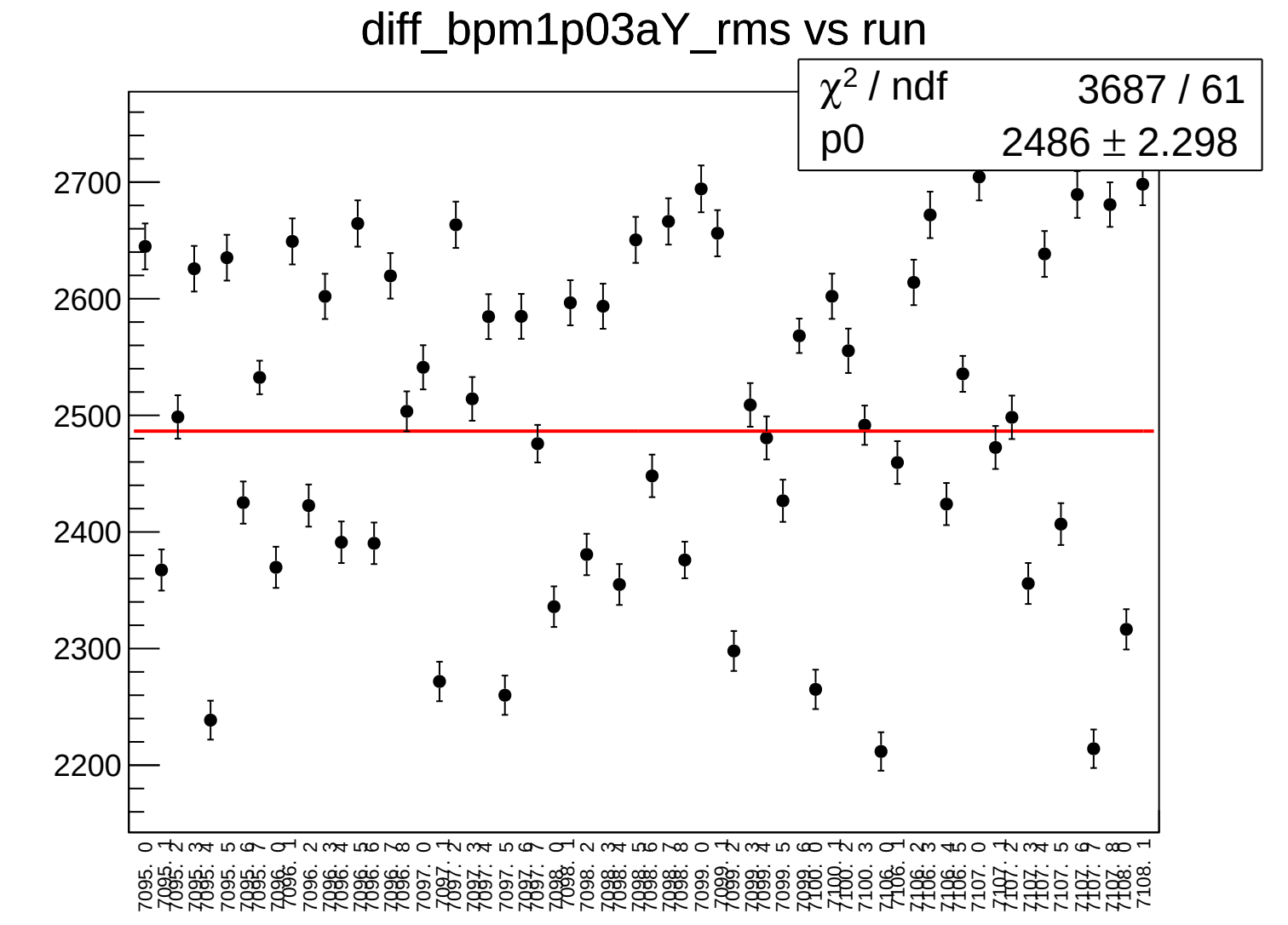

diff_bpm1p03aX_mean vs run
χ² / ndf 73.71 / 61
p0 −0.6058 ± 2.234
pull
Entries 62
Mean −177.6
Std Dev 206.1

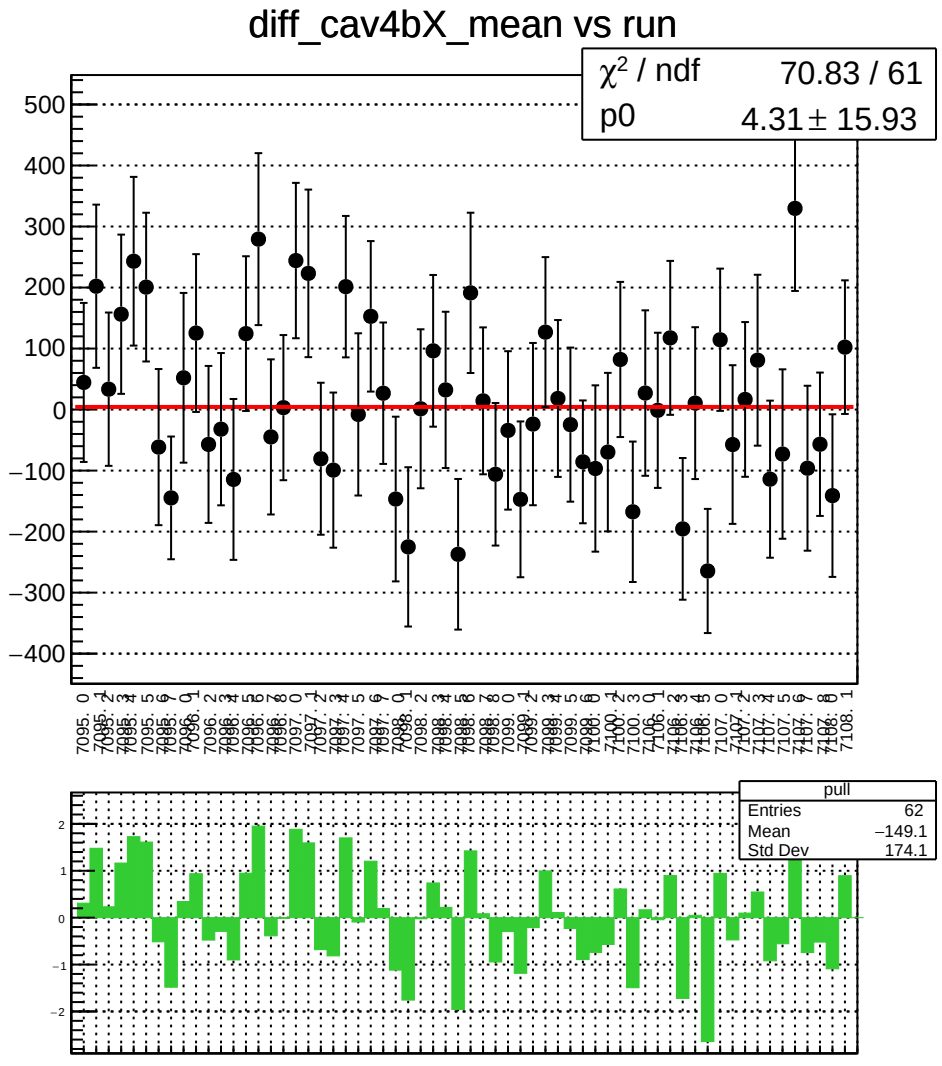

pull1D
Entries 62
Mean 0.03252
Std Dev 1.09

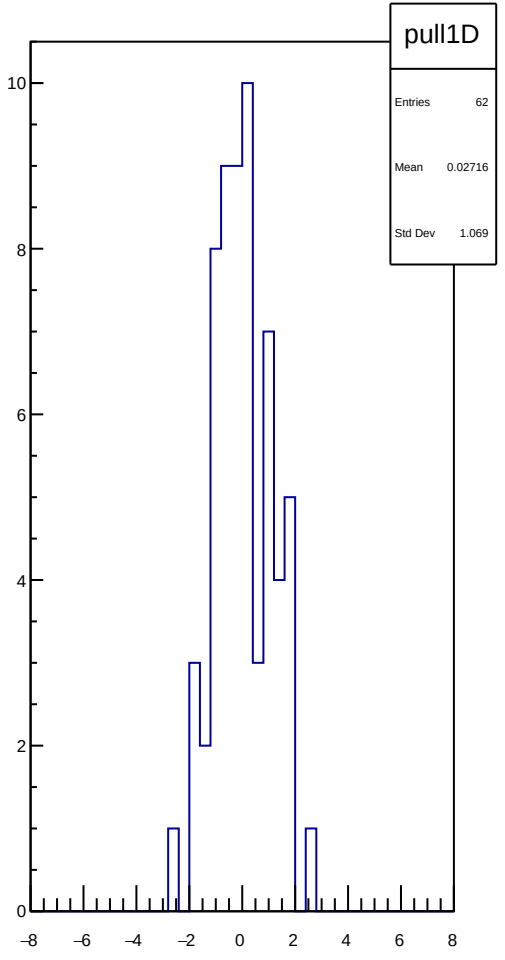

diff_bpm1p03aX_rms vs run
χ² / ndf 2340 / 61
p0 1710 ± 1.579
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

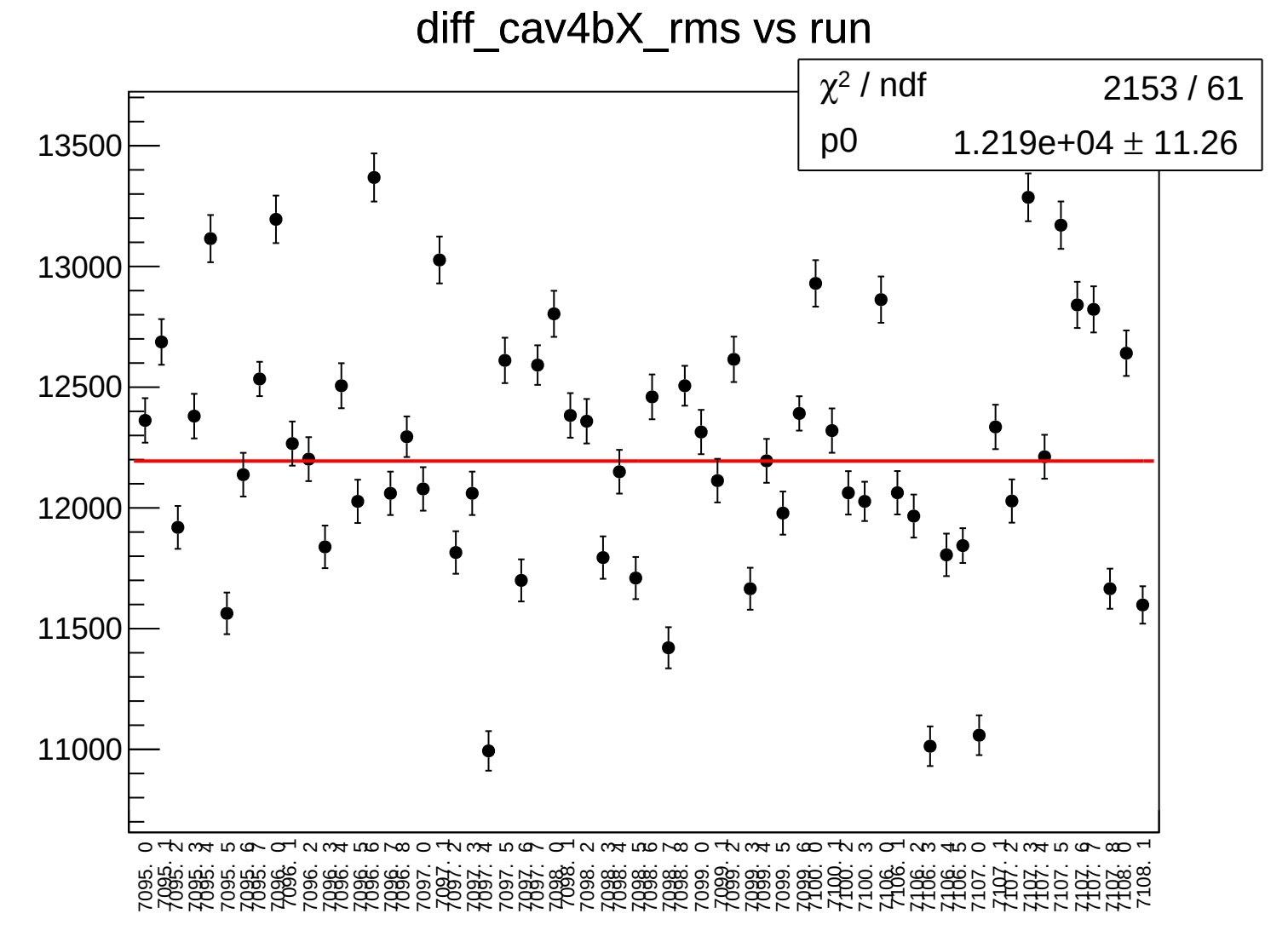

diff_bpm1p03aY_mean vs run
χ² / ndf 73.86 / 61
p0 6.587 ± 3.25
pull
Entries 62
Mean 11.27
Std Dev 53.66

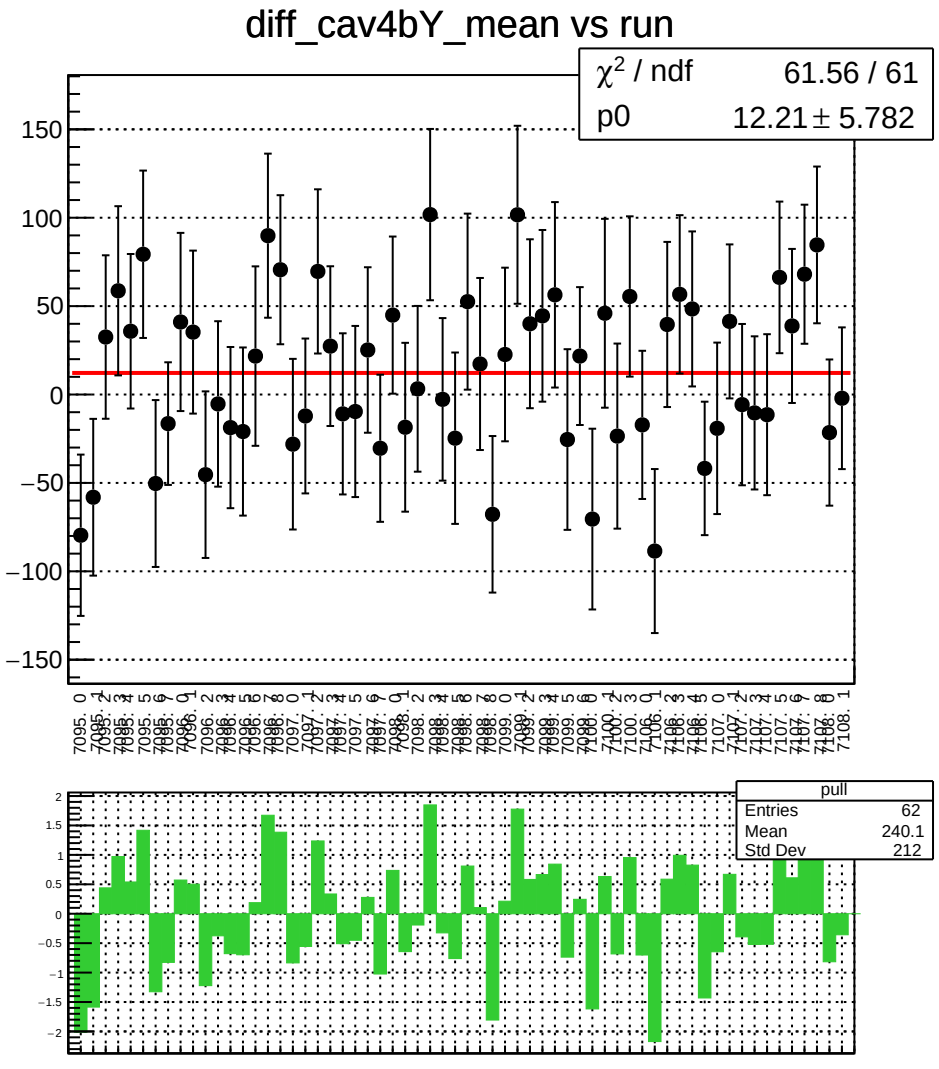

pull1D
Entries 62
Mean 0.008433
Std Dev 1.091

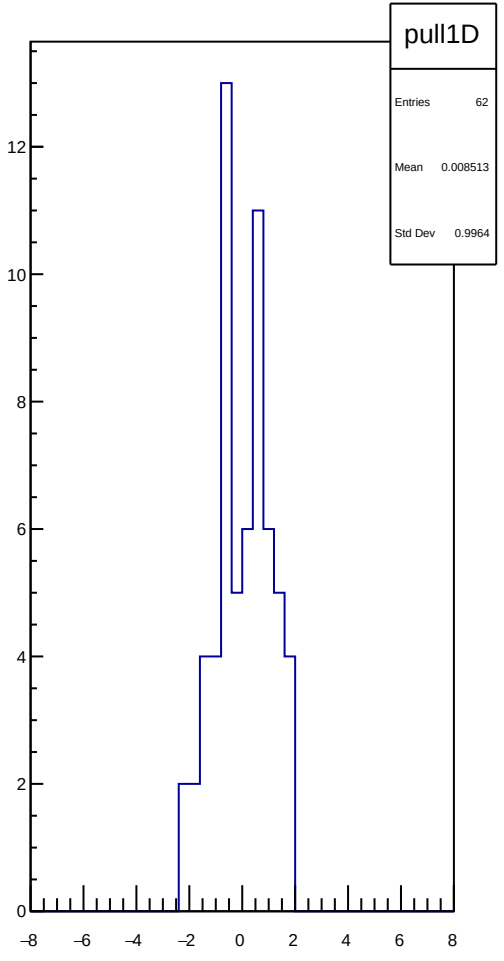

diff_bpm1p03aY_rms vs run
χ² / ndf 3687 / 61
p0 2486 ± 2.298
2700
2600
2500
2400
2300
2200

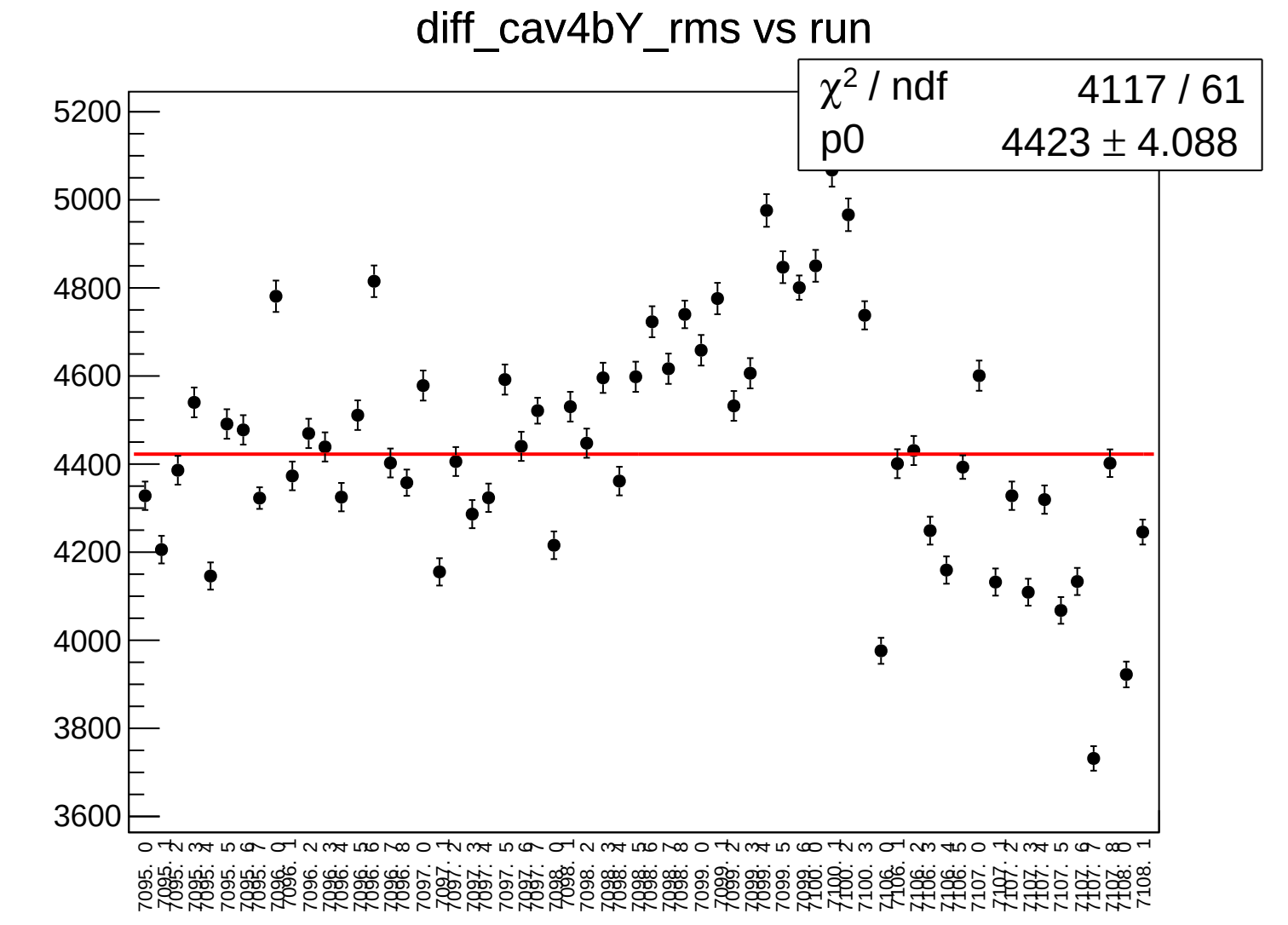

diff_cav4bX_mean vs run
χ² / ndf 70.83 / 61
p0 4.31 ± 15.93
pull
Entries 62
Mean −149.1
Std Dev 174.1

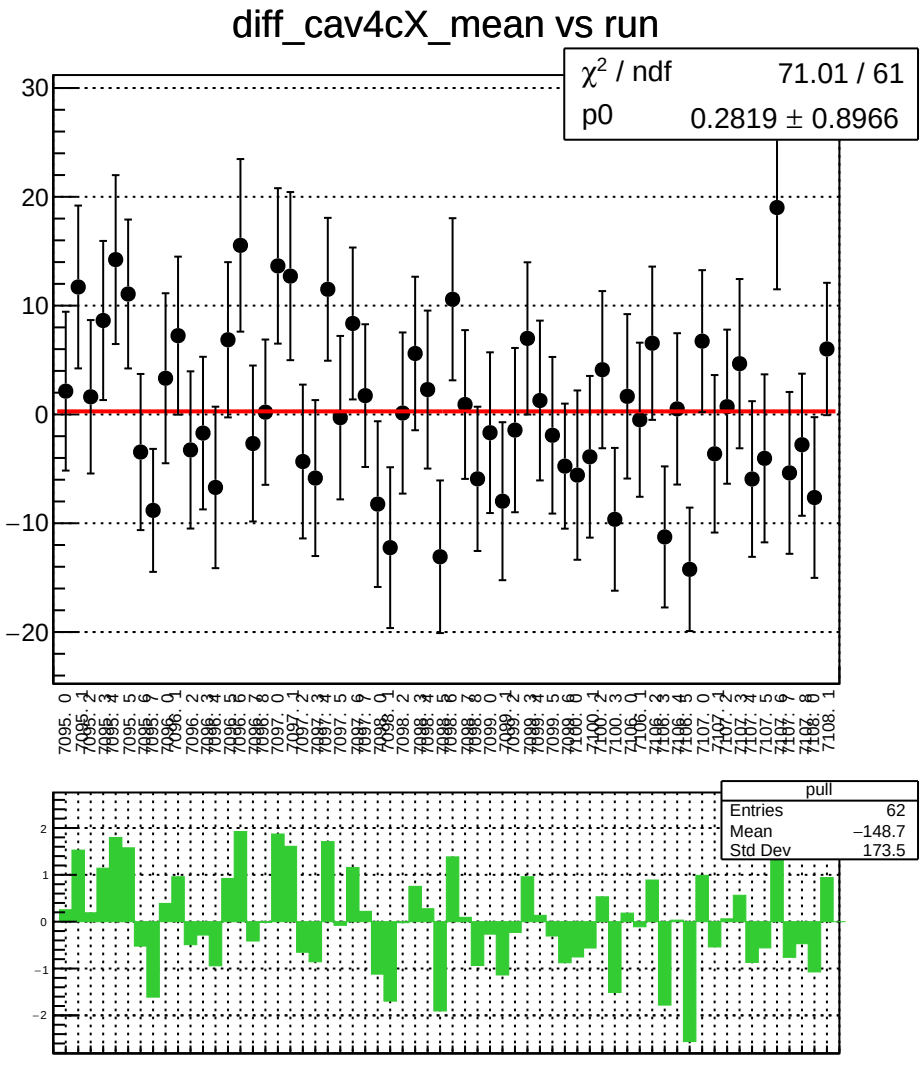

pull1D
Entries 62
Mean 0.02716
Std Dev 1.069

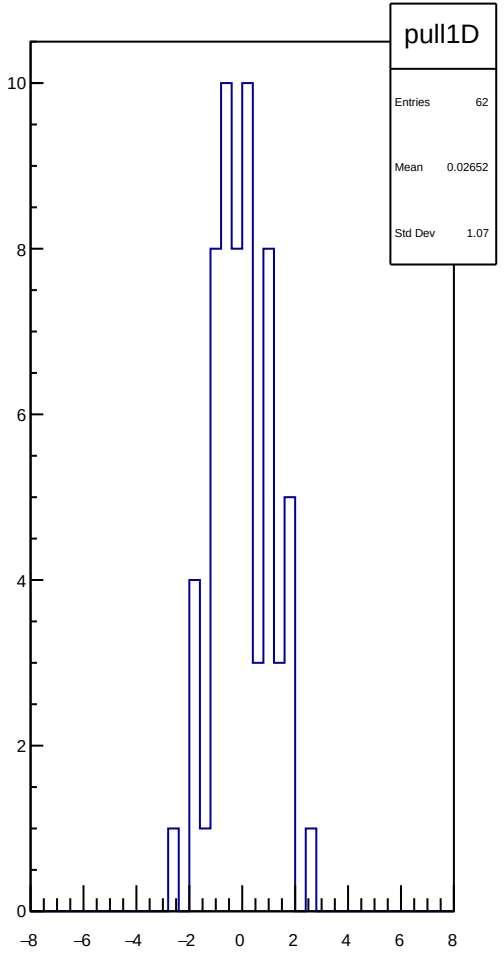

diff_cav4bX_rms vs run
χ² / ndf 2153 / 61
p0 1.219e+04 ± 11.26
13500
13000
12500
12000
11500
11000

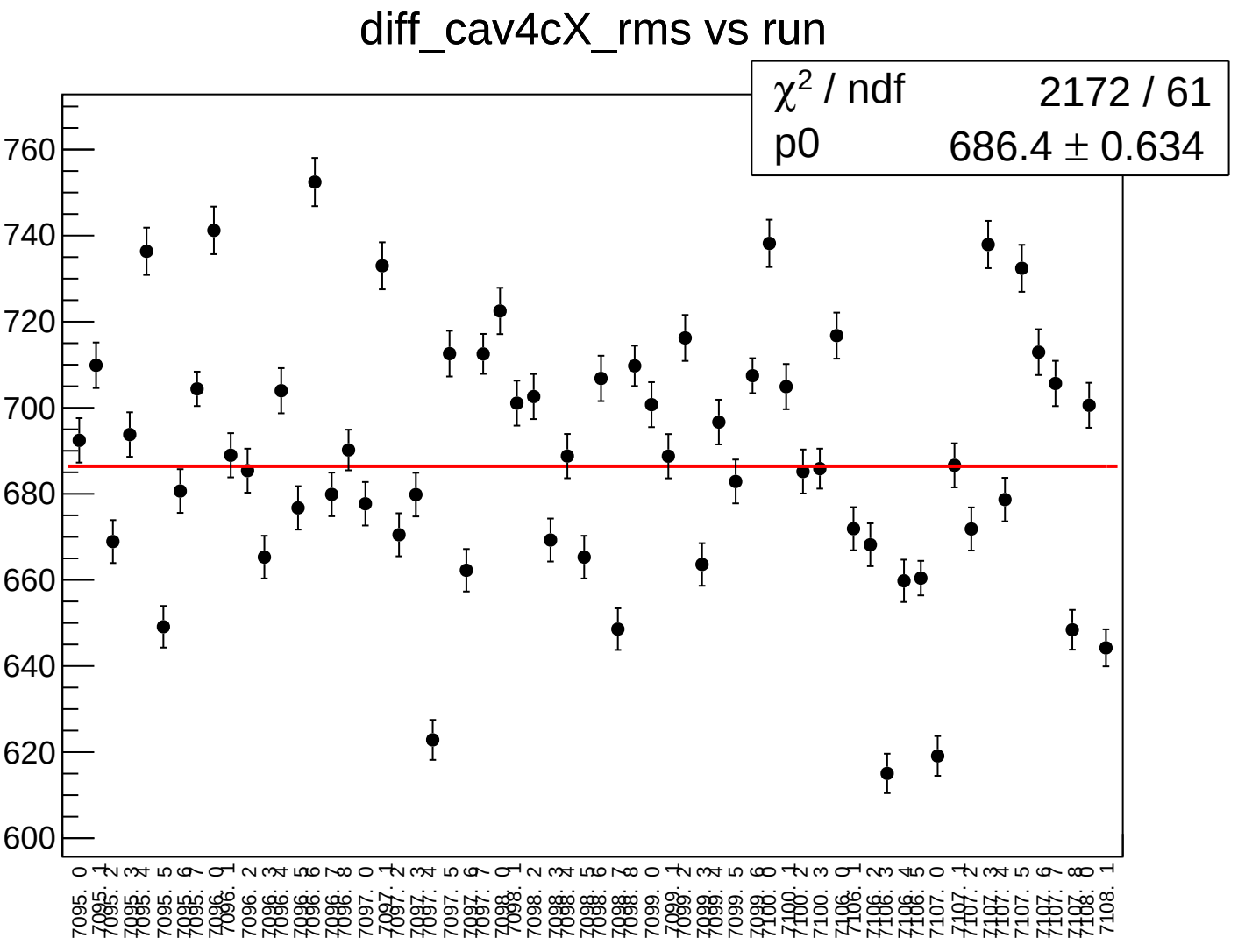

diff_cav4bY_mean vs run
χ^2 / ndf 61.56 / 61
p0 12.21 ± 5.782
150
100
50
0
−50
−100
−150
pull
Entries 62
Mean 240.1
Std Dev 212
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

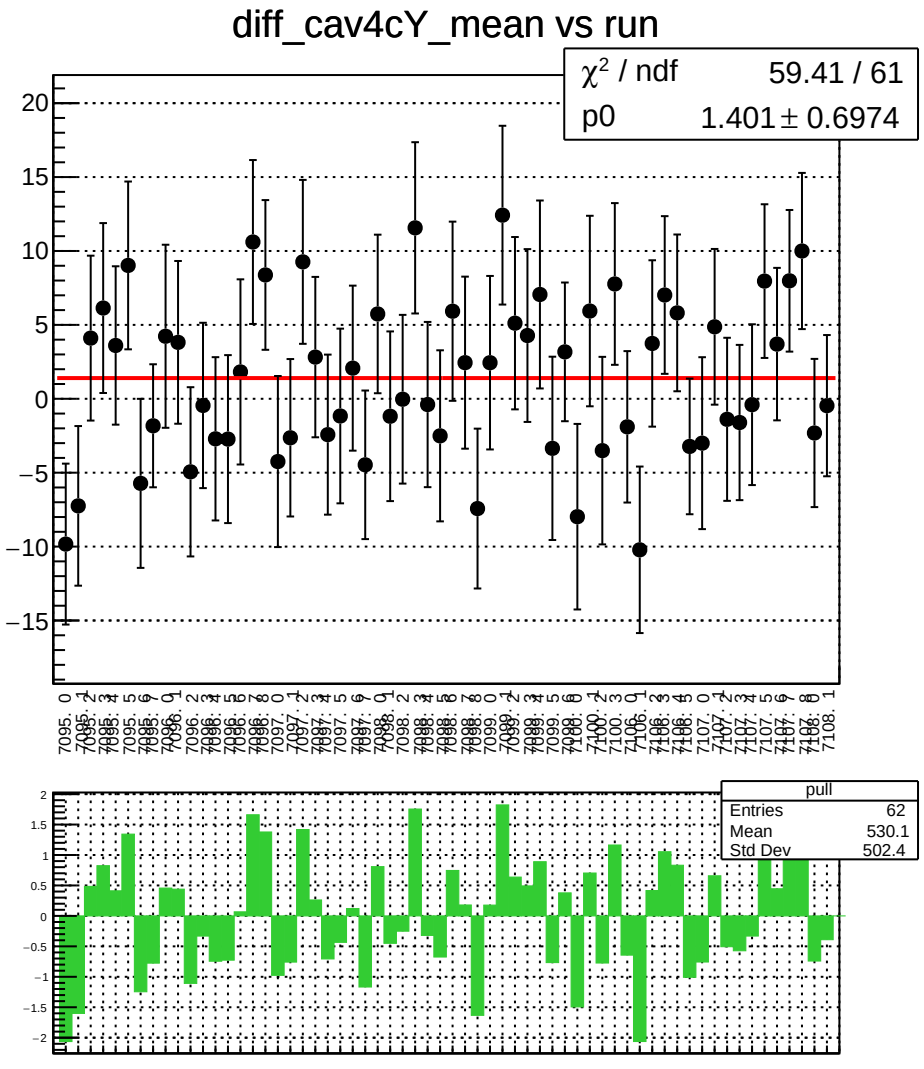

pull1D
Entries 62
Mean 0.008513
Std Dev 0.9964
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

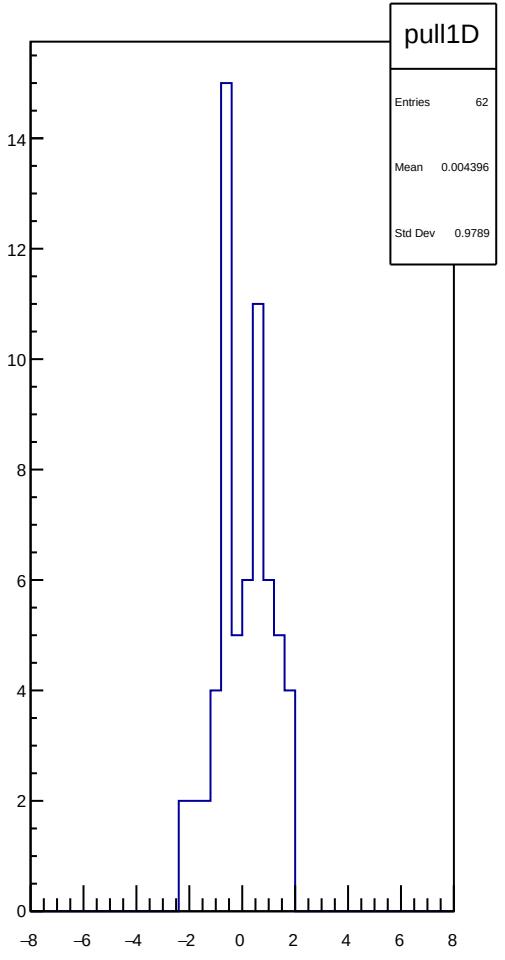

diff_cav4bY_rms vs run
χ^2 / ndf 4117 / 61
p0 4423 ± 4.088
5200
5000
4800
4600
4400
4200
4000
3800
3600

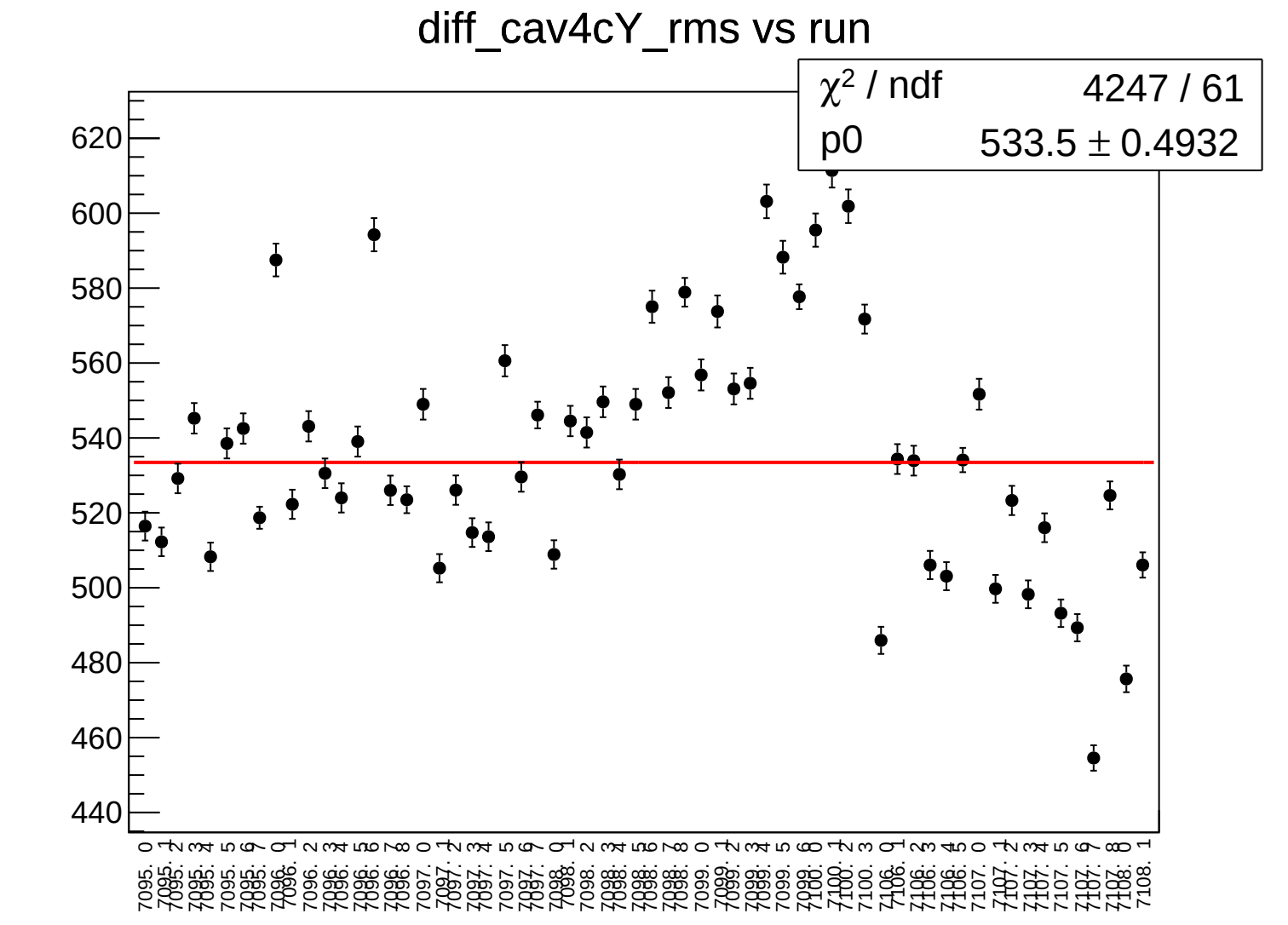

diff_cav4cX_mean vs run
χ² / ndf 71.01 / 61
p0 0.2819 ± 0.8966
pull
Entries 62
Mean −148.7
Std Dev 173.5

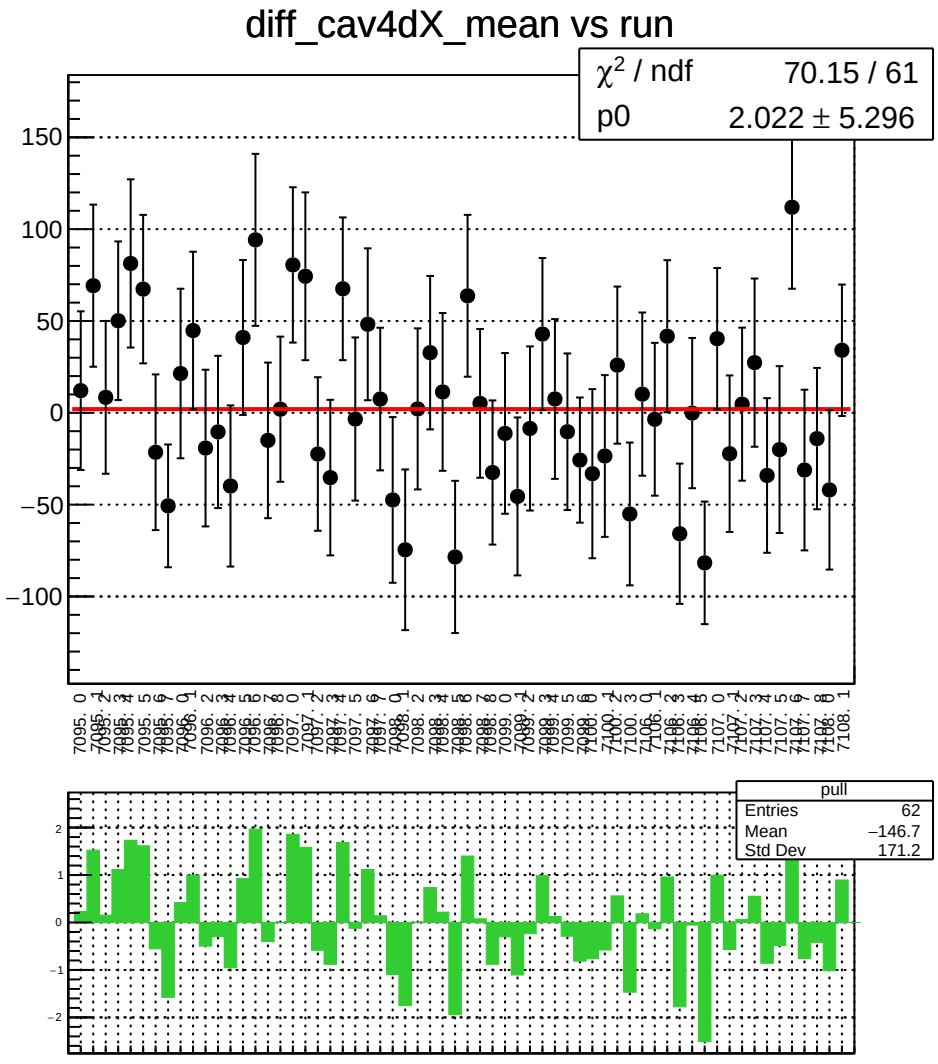

pull1D
Entries 62
Mean 0.02652
Std Dev 1.07

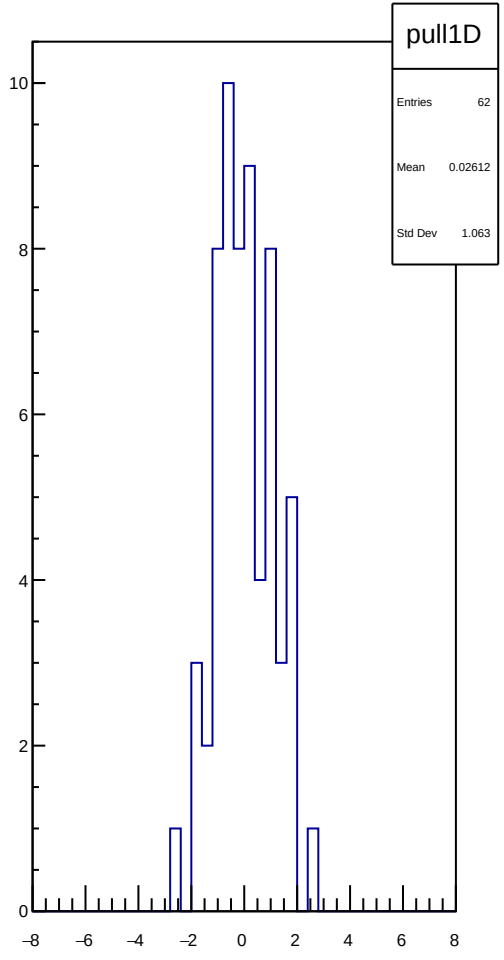

diff_cav4cX_rms vs run
χ² / ndf 2172 / 61
p0 686.4 ± 0.634
760
740
720
700
680
660
640
620
600

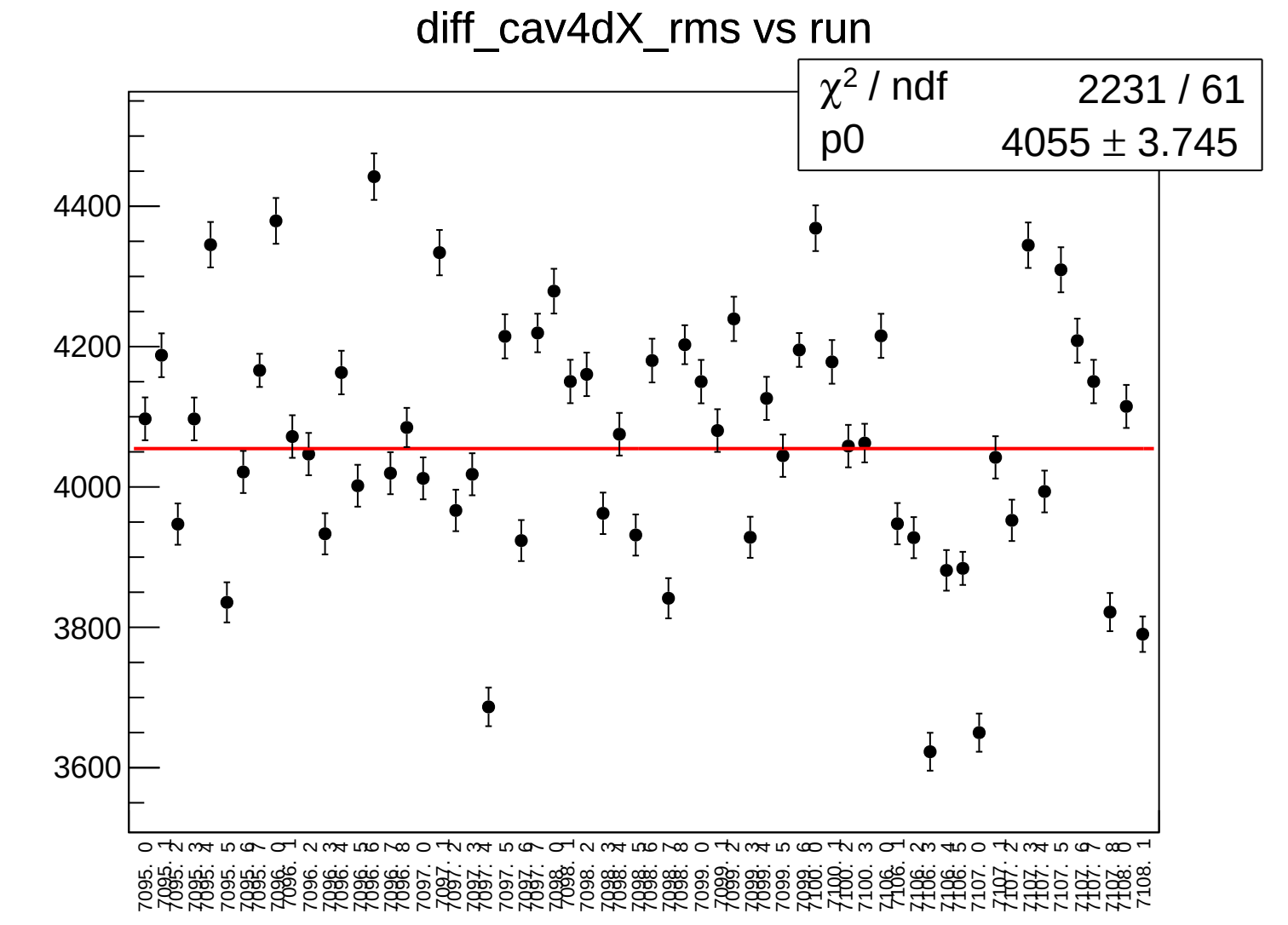

diff_cav4cY_mean vs run
χ² / ndf 59.41 / 61
p0 1.401 ± 0.6974
pull
Entries 62
Mean 530.1
Std Dev 502.4

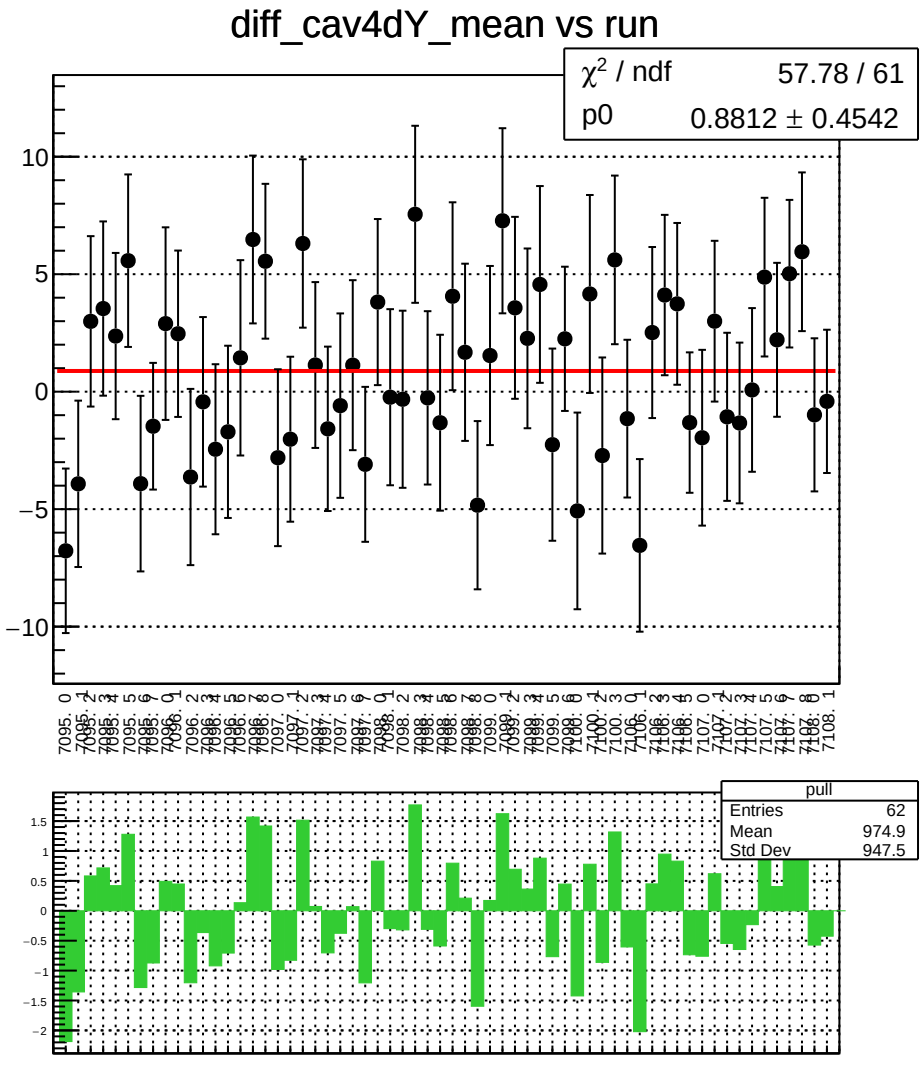

pull1D
Entries 62
Mean 0.004396
Std Dev 0.9789

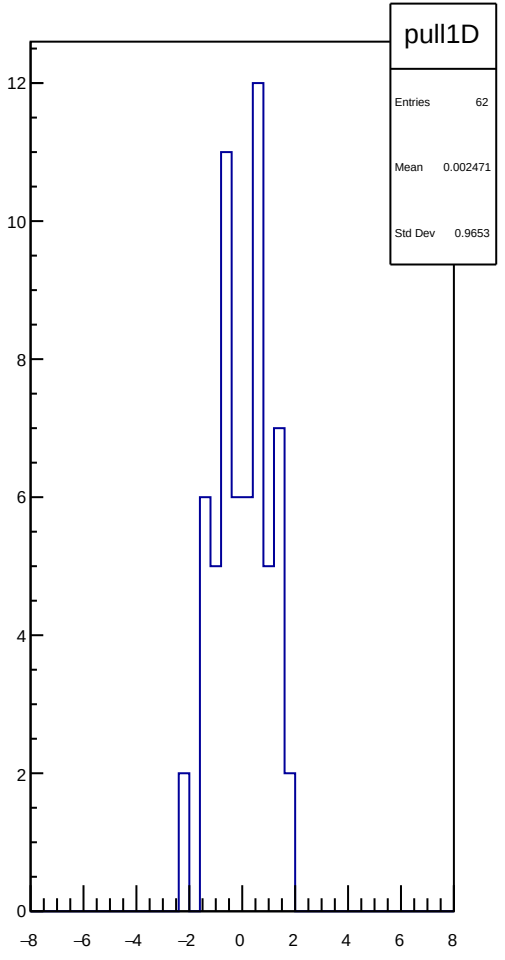

diff_cav4cY_rms vs run
χ² / ndf 4247 / 61
p0 533.5 ± 0.4932
620
600
580
560
540
520
500
480
460
440

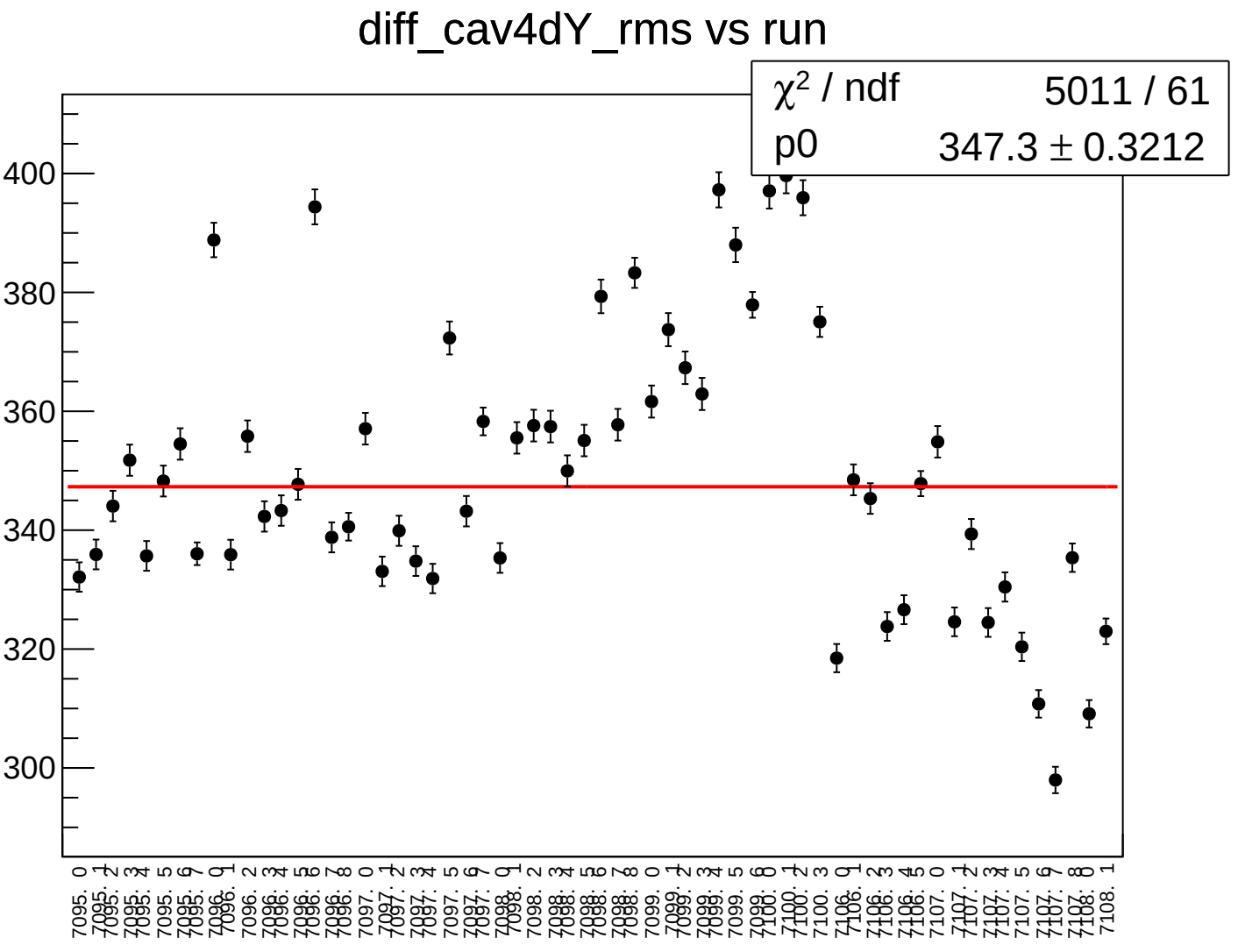

diff_cav4dX_mean vs run
χ^2 / ndf 70.15 / 61
p0 2.022 ± 5.296
150
100
50
0
−50
−100
pull
Entries 62
Mean −146.7
Std Dev 171.2
2
1
0
−1
−2

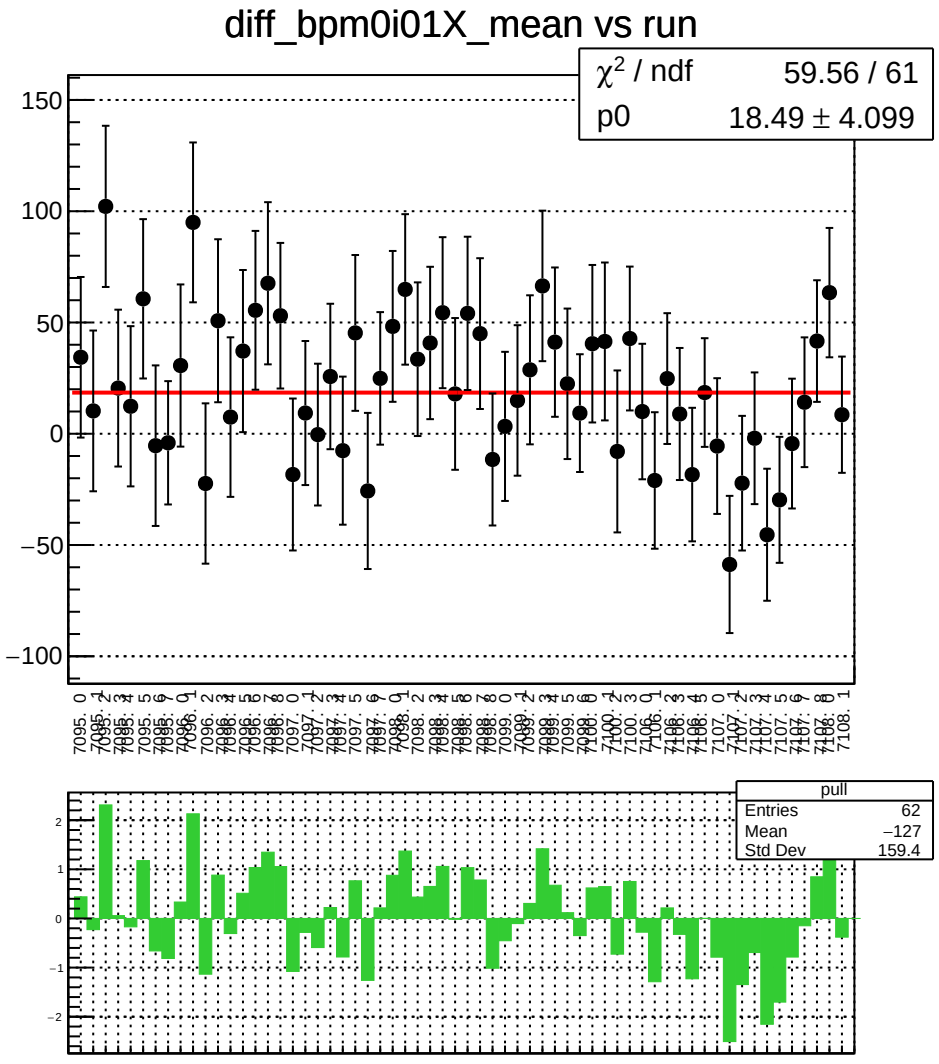

pull1D
Entries 62
Mean 0.02612
Std Dev 1.063
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

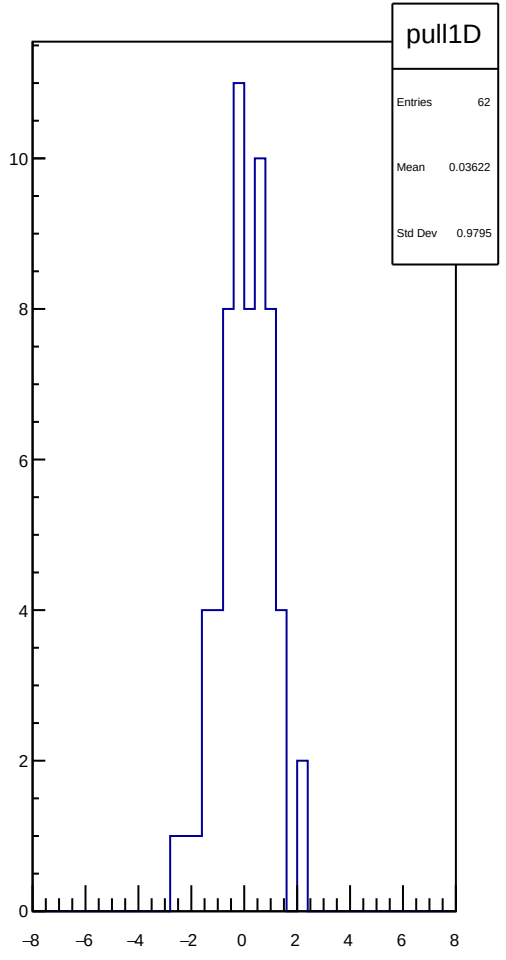

diff_cav4dX_rms vs run
χ² / ndf 2231 / 61
p0 4055 ± 3.745
4400
4200
4000
3800
3600

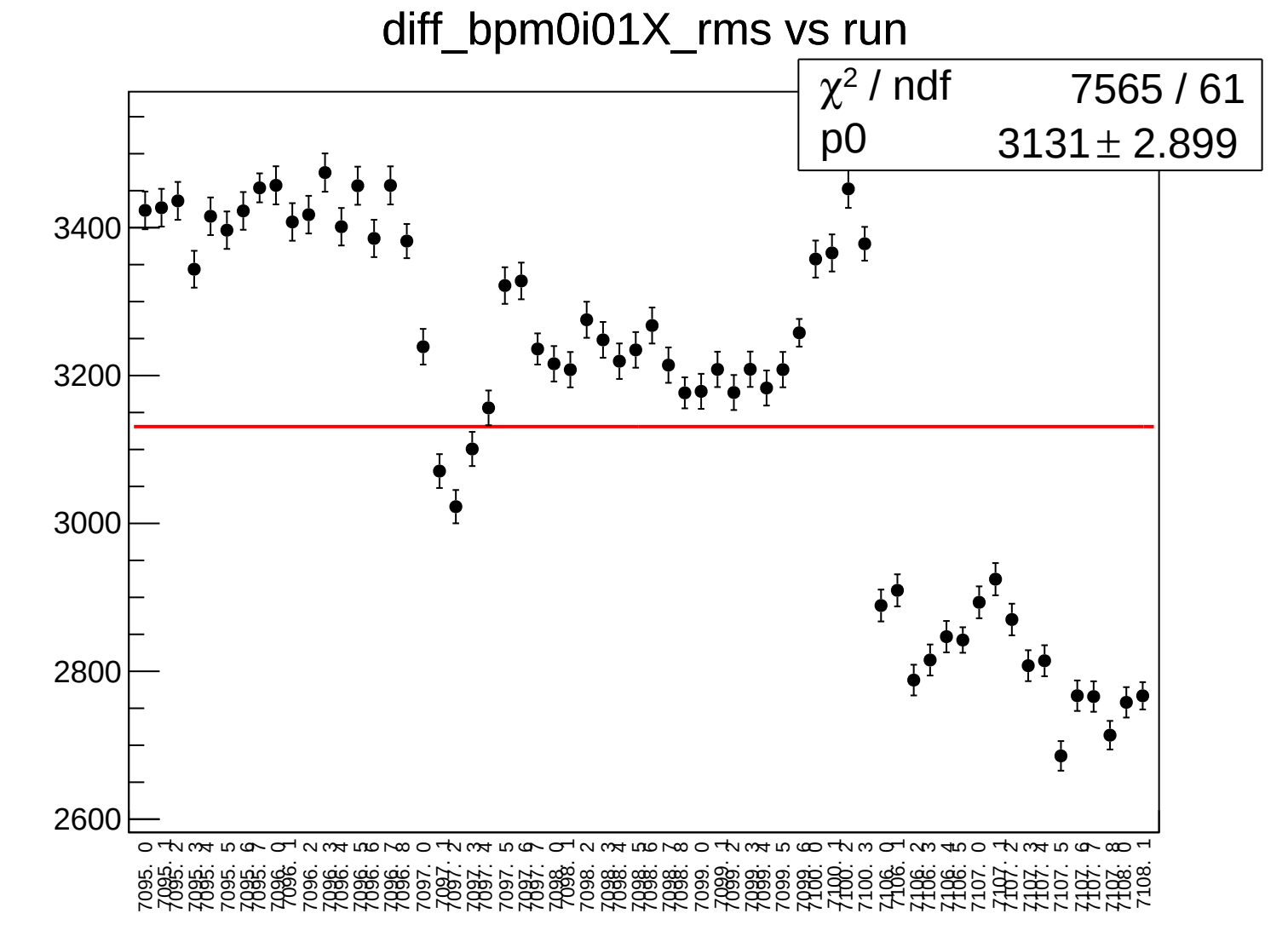

diff_cav4dY_mean vs run
χ² / ndf 57.78 / 61
p0 0.8812 ± 0.4542
pull
Entries 62
Mean 974.9
Std Dev 947.5

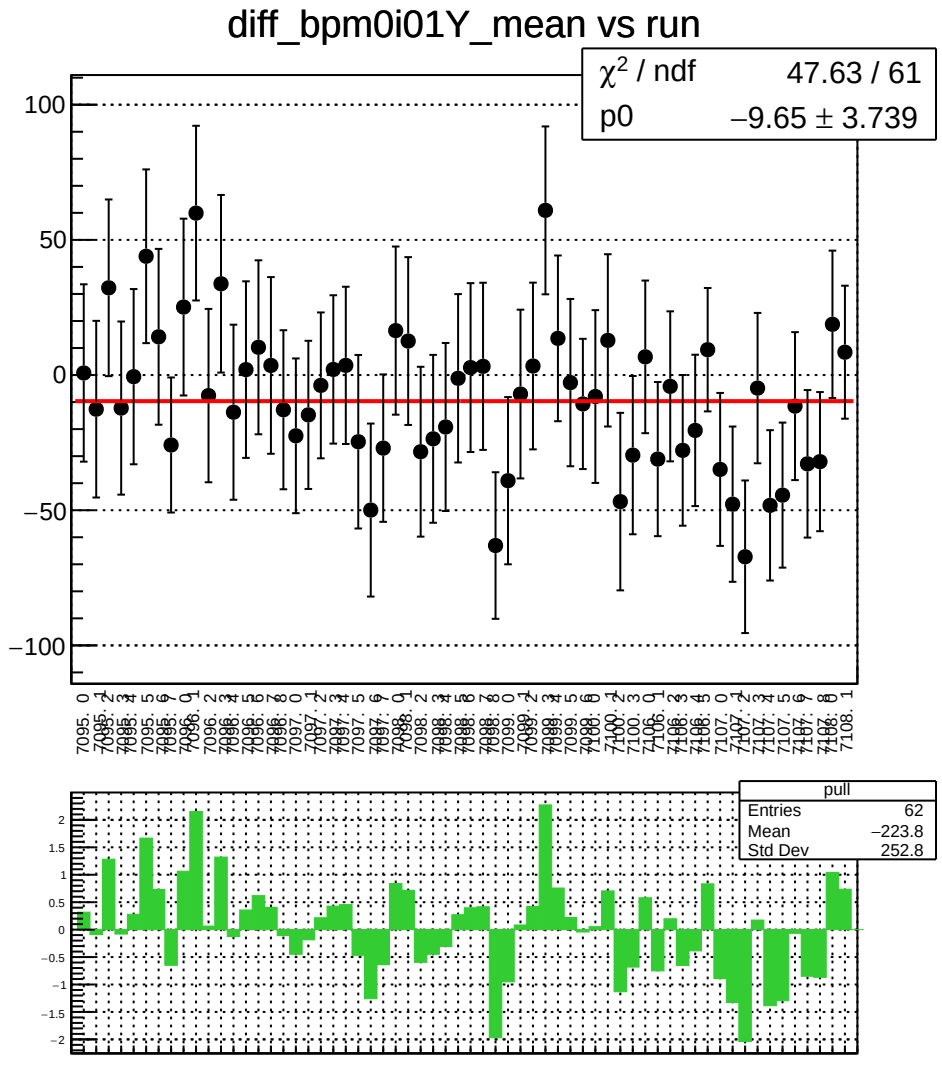

pull1D
Entries 62
Mean 0.002471
Std Dev 0.9653

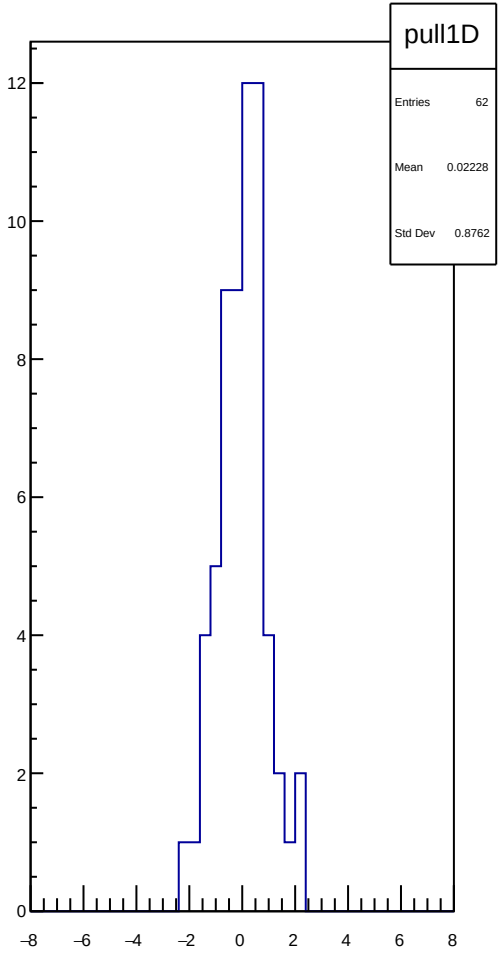

diff_cav4dY_rms vs run
χ² / ndf 5011 / 61
p0 347.3 ± 0.3212
400
380
360
340
320
300
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

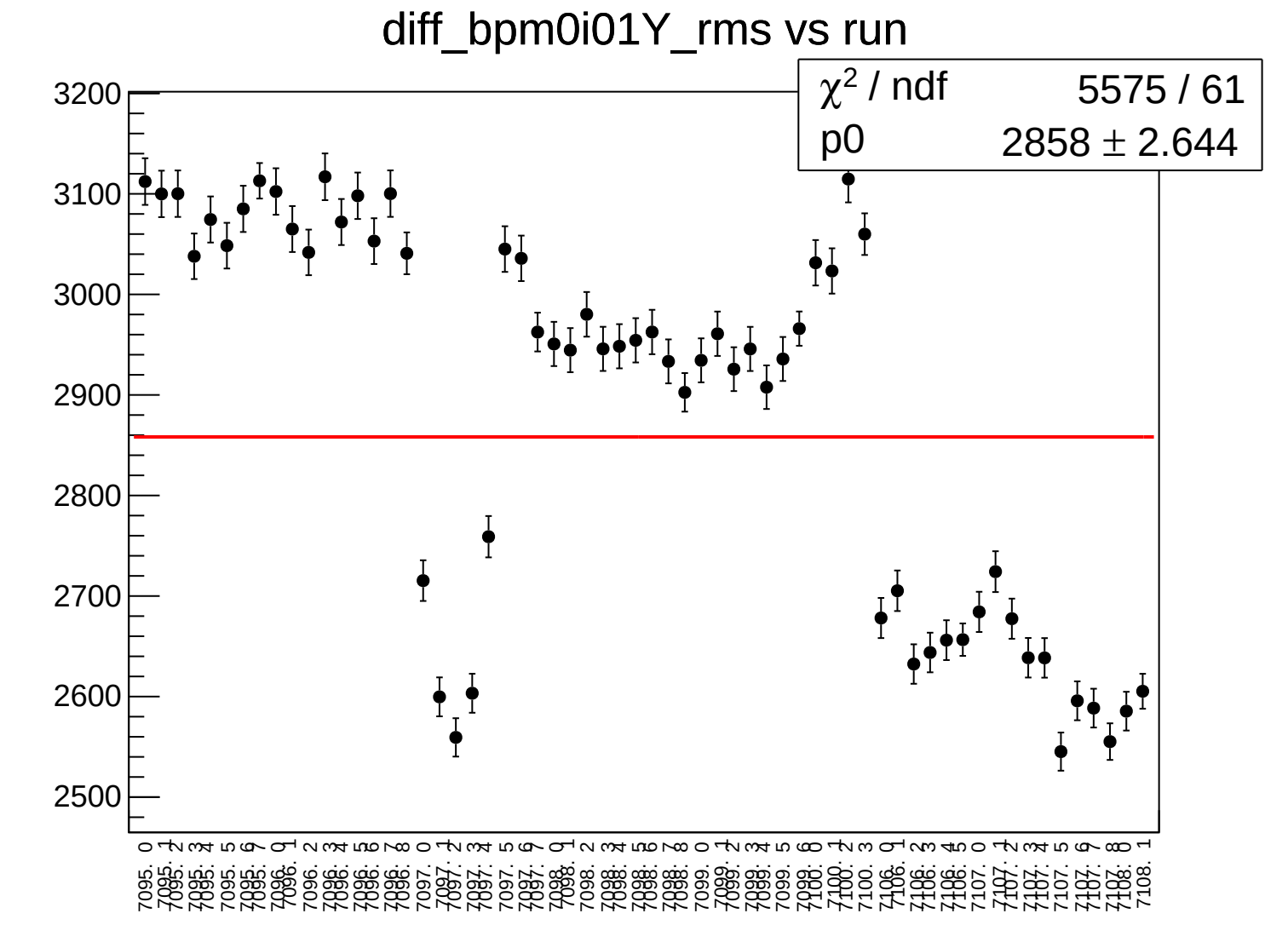

diff_bpm0i01X_mean vs run
χ^2 / ndf 59.56 / 61
p0 18.49 ± 4.099
150
100
50
0
−50
−100
pull
Entries 62
Mean −127
Std Dev 159.4
2
1
0
−1
−2

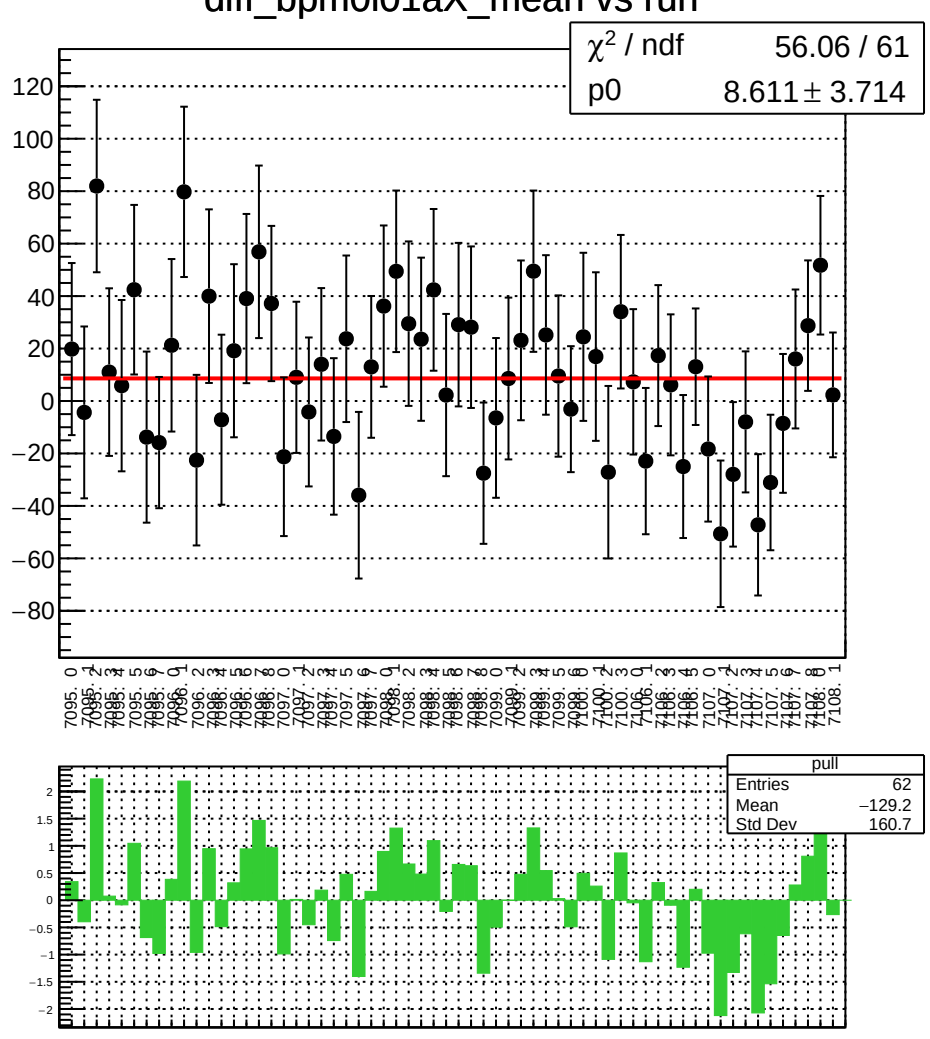

pull1D
Entries 62
Mean 0.03622
Std Dev 0.9795
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

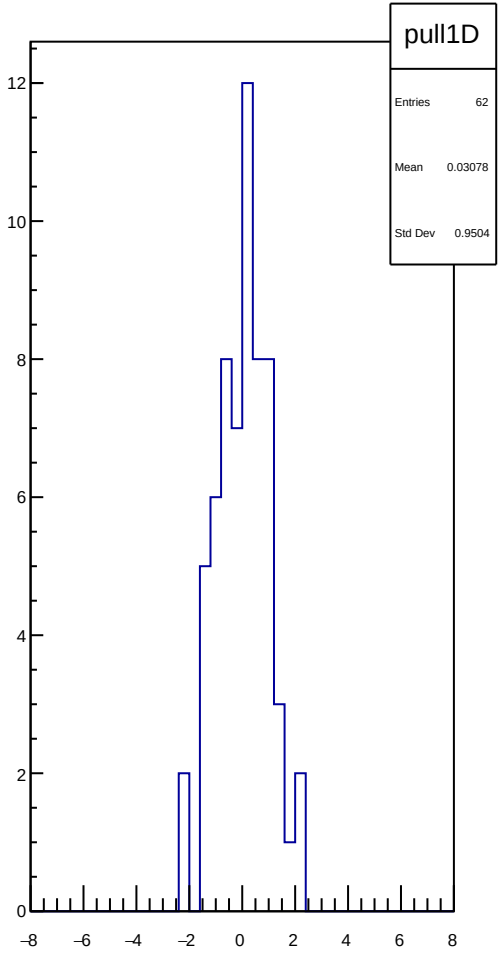

diff_bpm0i01X_rms vs run
χ^2 / ndf 7565 / 61
p0 3131 ± 2.899
3400
3200
3000
2800
2600

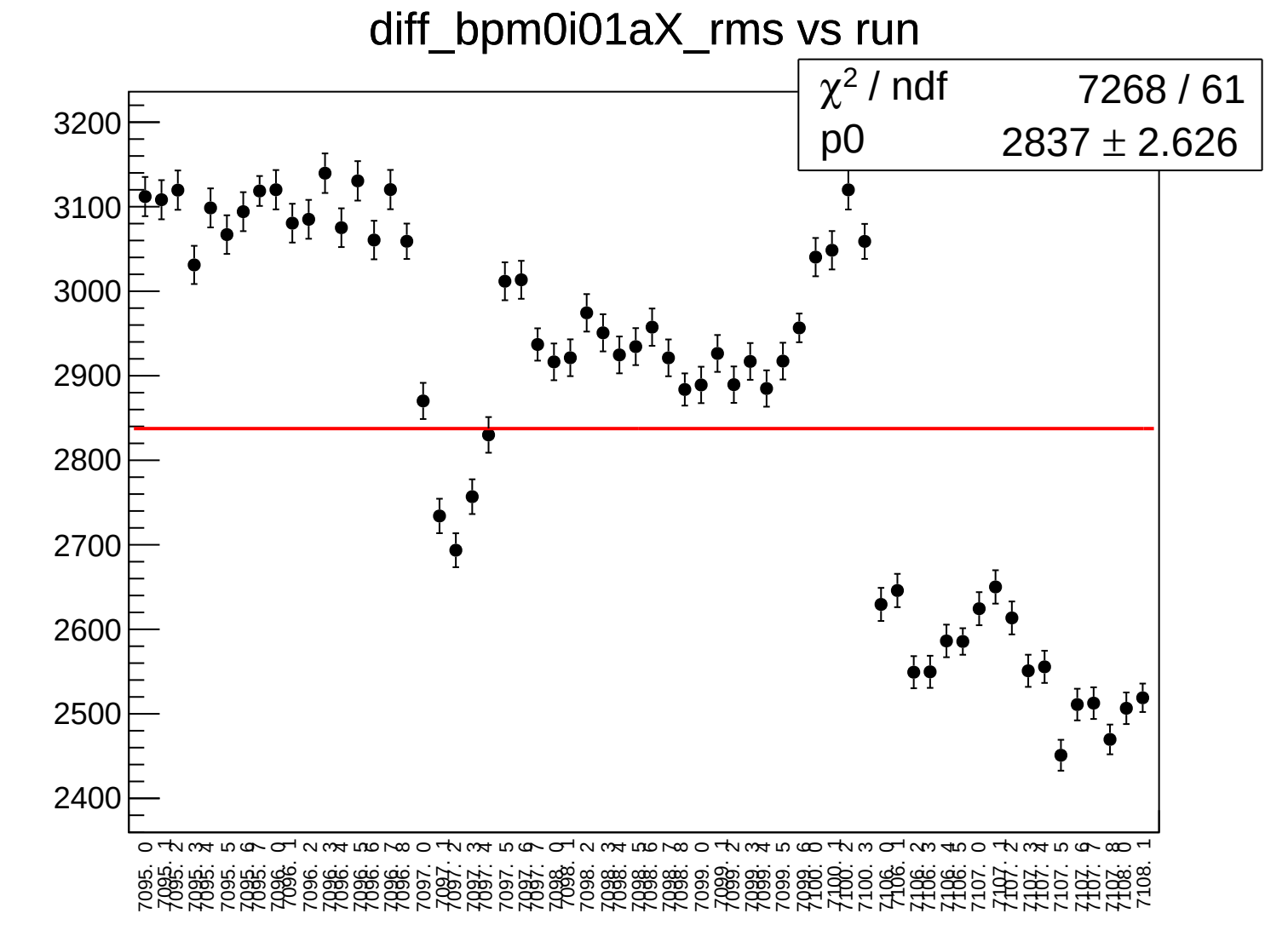

diff_bpm0i01Y_mean vs run
χ² / ndf 47.63 / 61
p0 −9.65 ± 3.739
pull
Entries 62
Mean −223.8
Std Dev 252.8

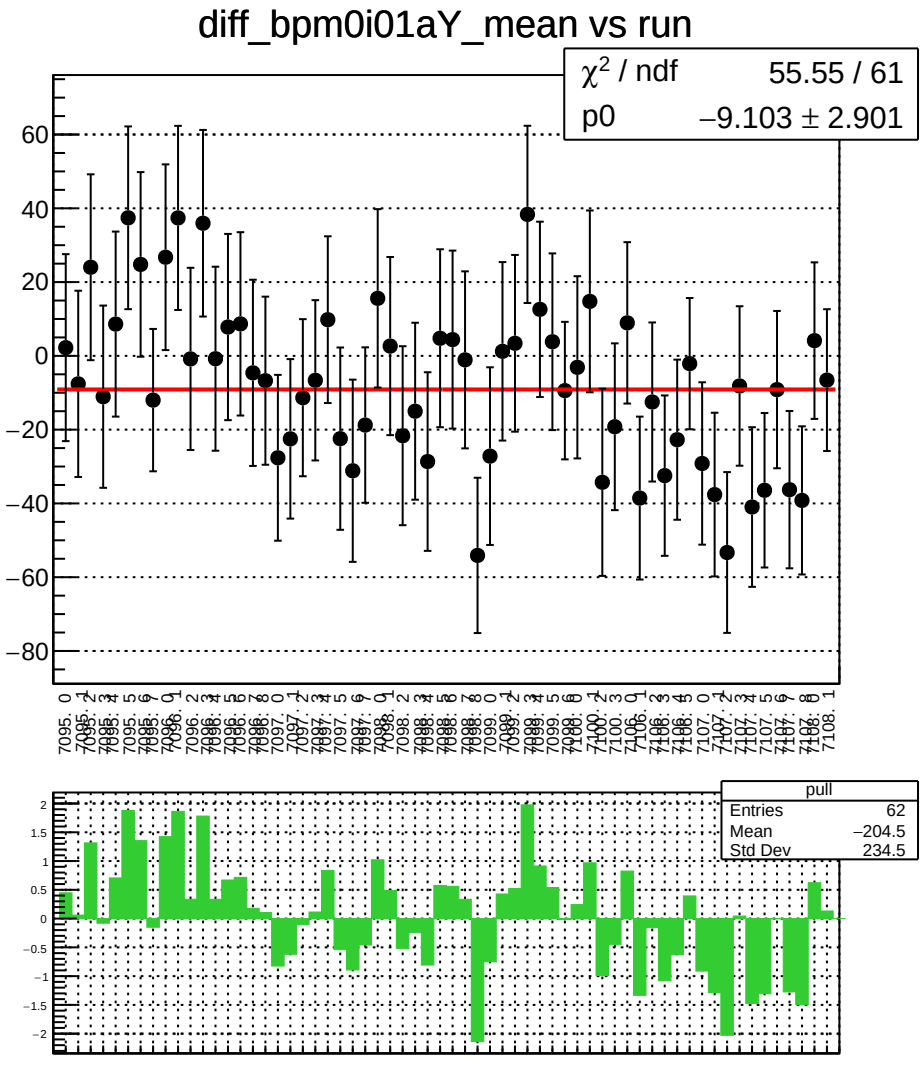

pull1D
Entries 62
Mean 0.02228
Std Dev 0.8762

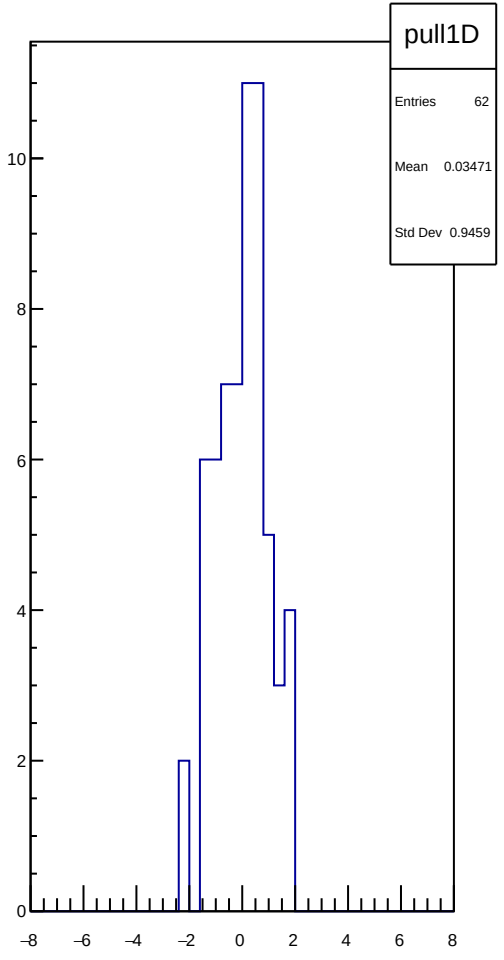

diff_bpm0i01Y_rms vs run
χ² / ndf 5575 / 61
p0 2858 ± 2.644
3200
3100
3000
2900
2800
2700
2600
2500

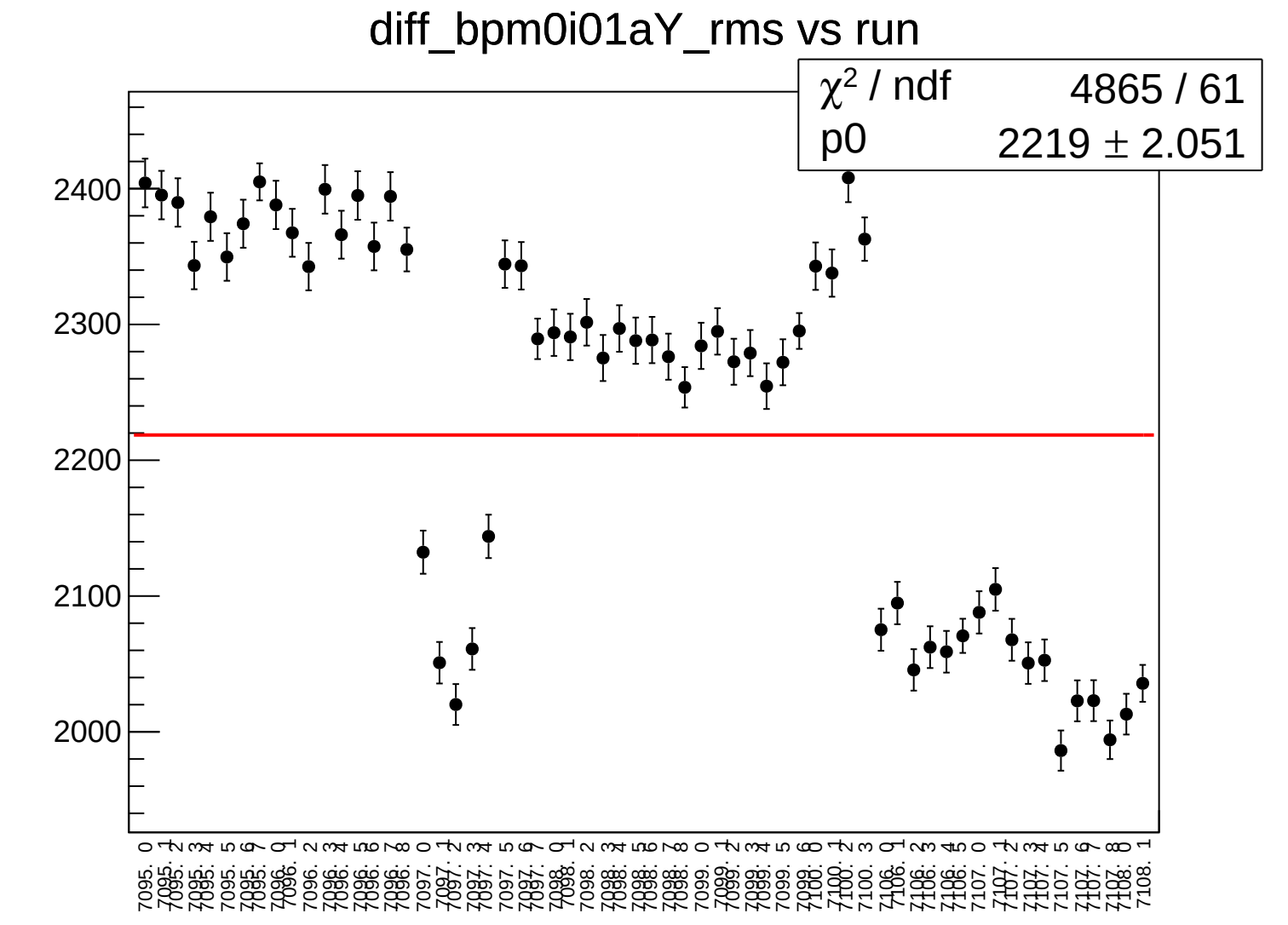

diff_bpm0i01aX_mean vs run
χ^2 / ndf 56.06 / 61
p0 8.611 ± 3.714
pull
Entries 62
Mean −129.2
Std Dev 160.7

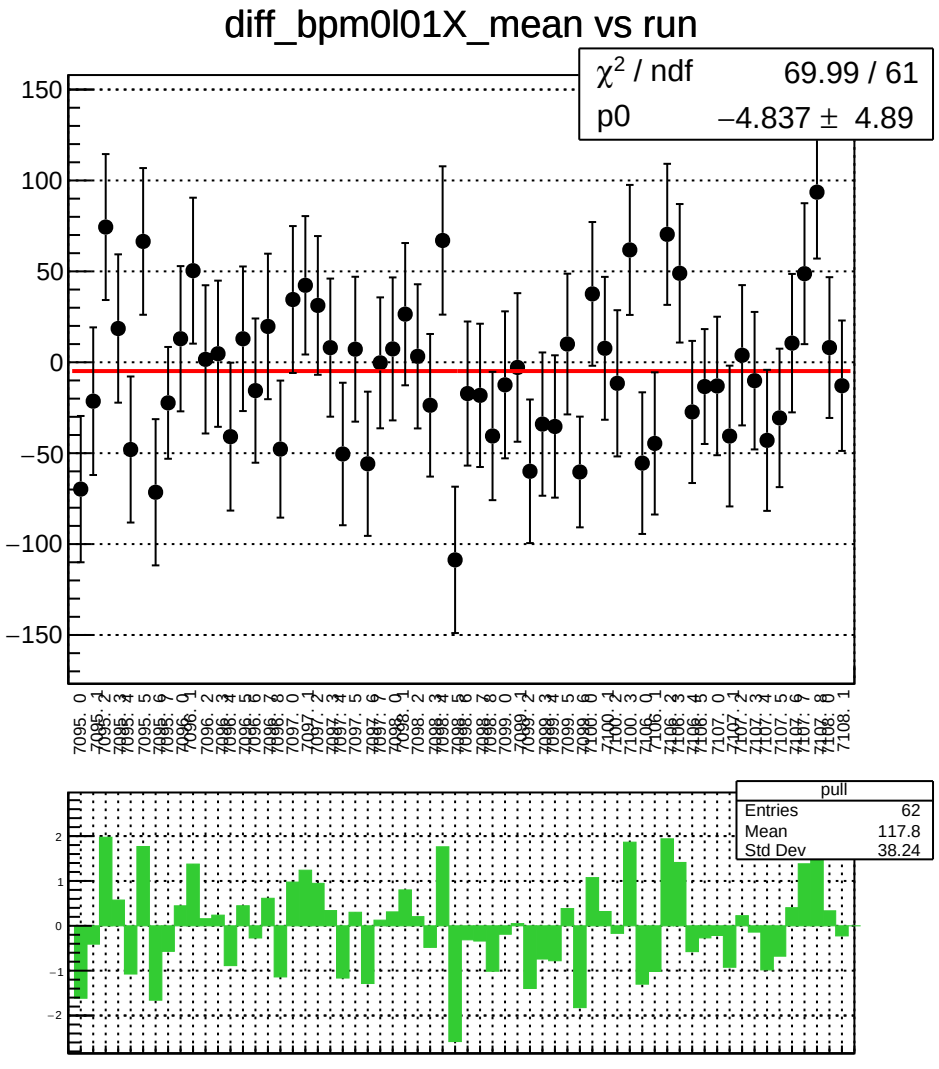

pull1D
Entries 62
Mean 0.03078
Std Dev 0.9504

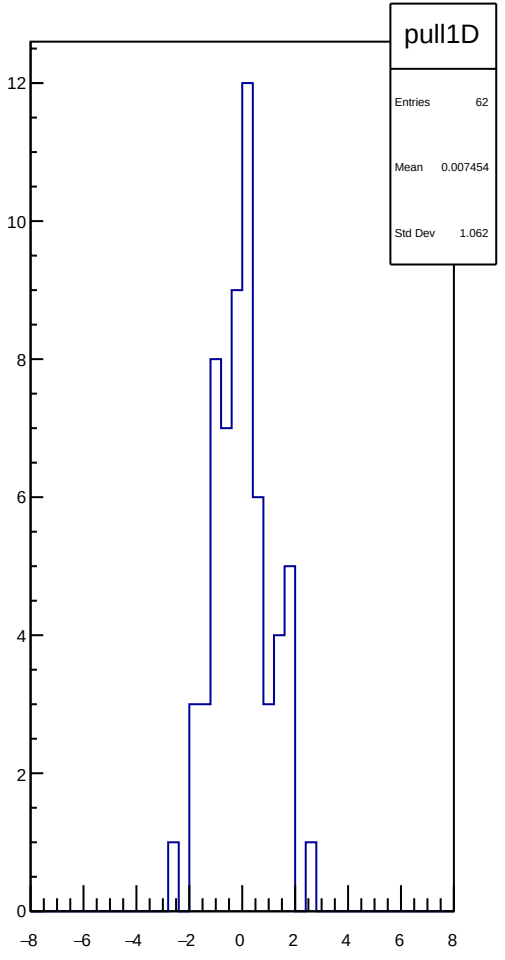

diff_bpm0i01aX_rms vs run
χ² / ndf 7268 / 61
p0 2837 ± 2.626
3200
3100
3000
2900
2800
2700
2600
2500
2400

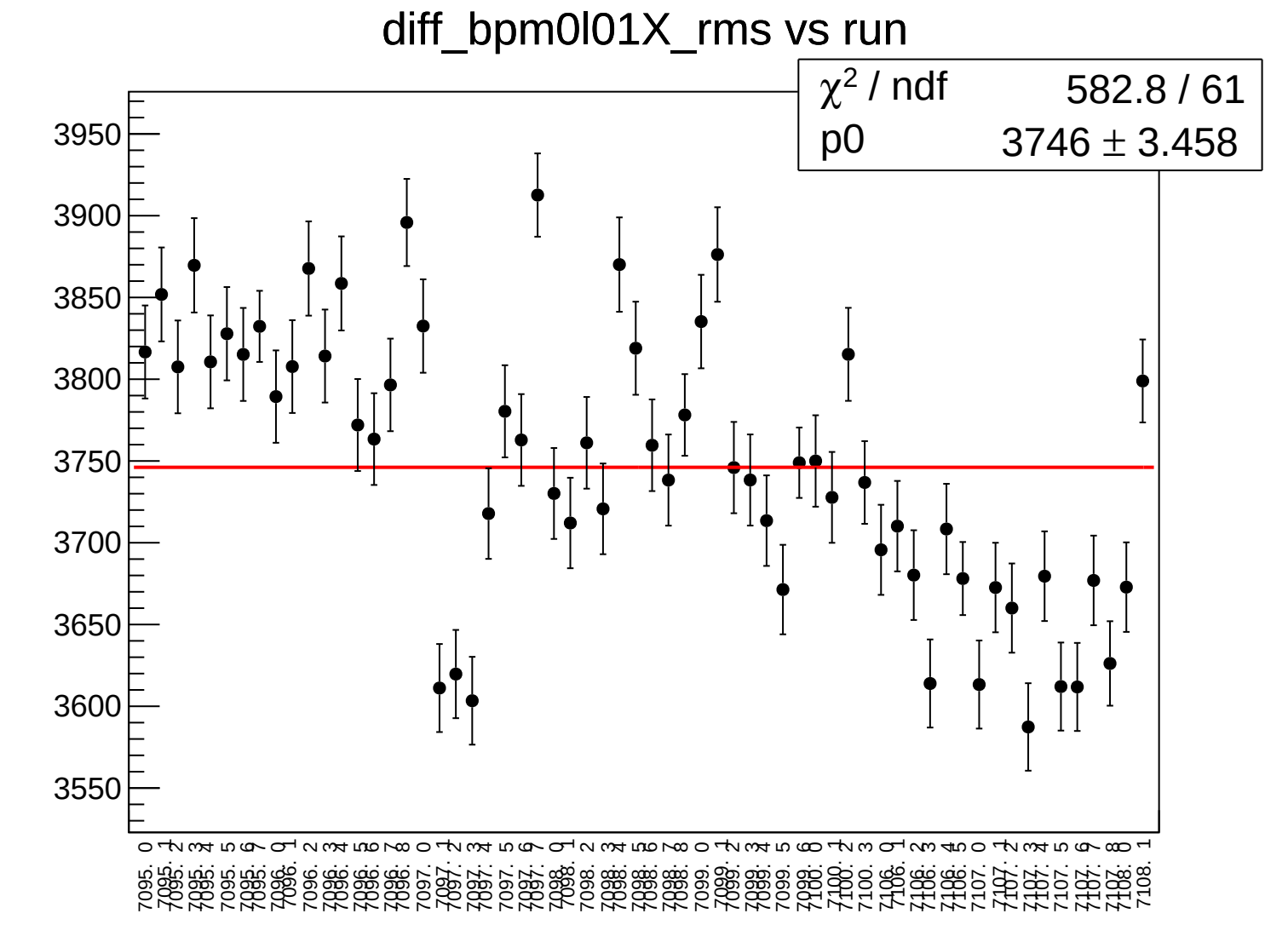

diff_bpm0i01aY_mean vs run
χ^2 / ndf 55.55 / 61
p0 −9.103 ± 2.901
pull
Entries 62
Mean −204.5
Std Dev 234.5


pull1D
Entries 62
Mean 0.03471
Std Dev 0.9459


diff_bpm0i01aY_rms vs run
χ² / ndf 4865 / 61
p0 2219 ± 2.051
2400
2300
2200
2100
2000


diff_bpm0l01X_mean vs run
χ^2 / ndf 69.99 / 61
p0 −4.837 ± 4.89
pull
Entries 62
Mean 117.8
Std Dev 38.24


pull1D
Entries 62
Mean 0.007454
Std Dev 1.062


diff_bpm0l01X_rms vs run
χ² / ndf 582.8 / 61
p0 3746 ± 3.458
3950
3900
3850
3800
3750
3700
3650
3600
3550
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7101. 0
7101. 1
7101. 2
7101. 3
7101. 4
7101. 5
7101. 6
7101. 7
7101. 8
7101. 9
7102. 0
7102. 1
7102. 2
7102. 3
7102. 4
7102. 5
7102. 6
7102. 7
7102. 8
7102. 9
7103. 0
7103. 1
7103. 2
7103. 3
7103. 4
7103. 5
7103. 6
7103. 7
7103. 8
7103. 9
7104. 0
7104. 1
7104. 2
7104. 3
7104. 4
7104. 5
7104. 6
7104. 7
7104. 8
7104. 9
7105. 0
7105. 1
7105. 2
7105. 3
7105. 4
7105. 5
7105. 6
7105. 7
7105. 8
7105. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
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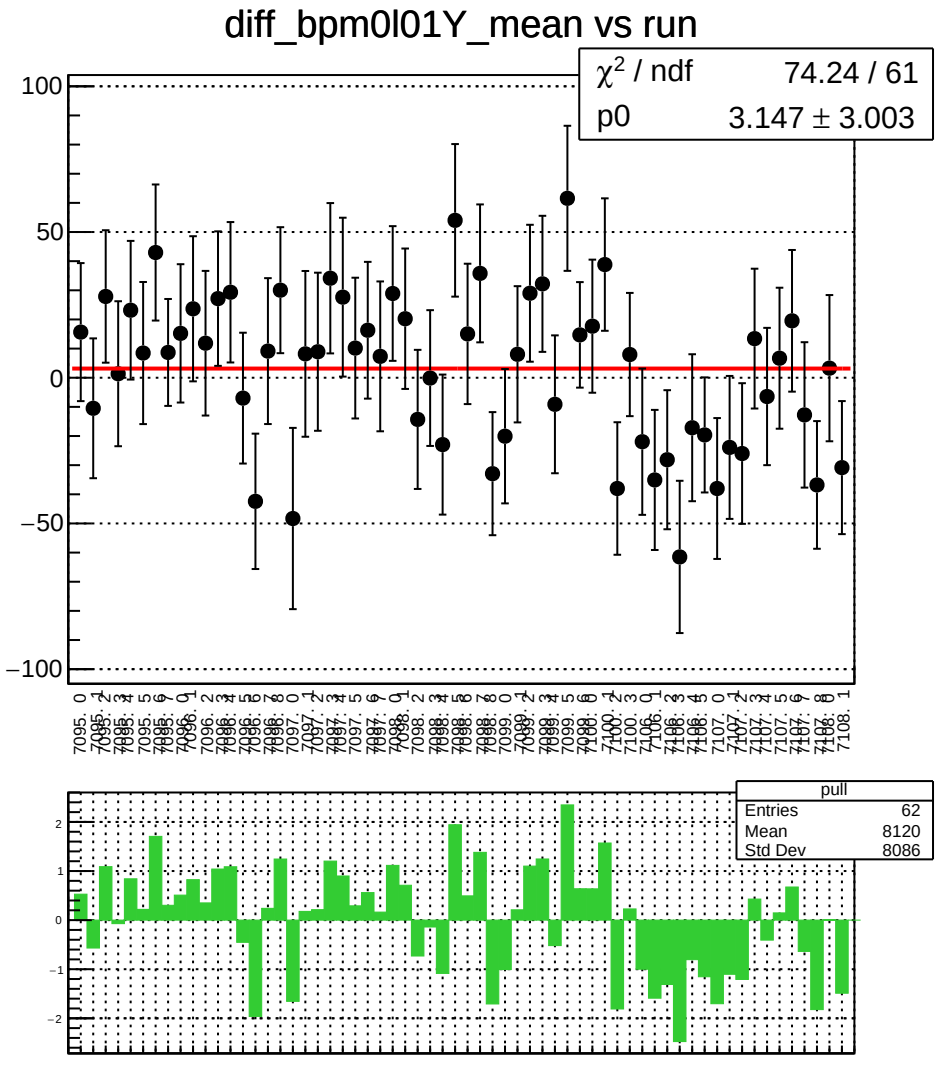
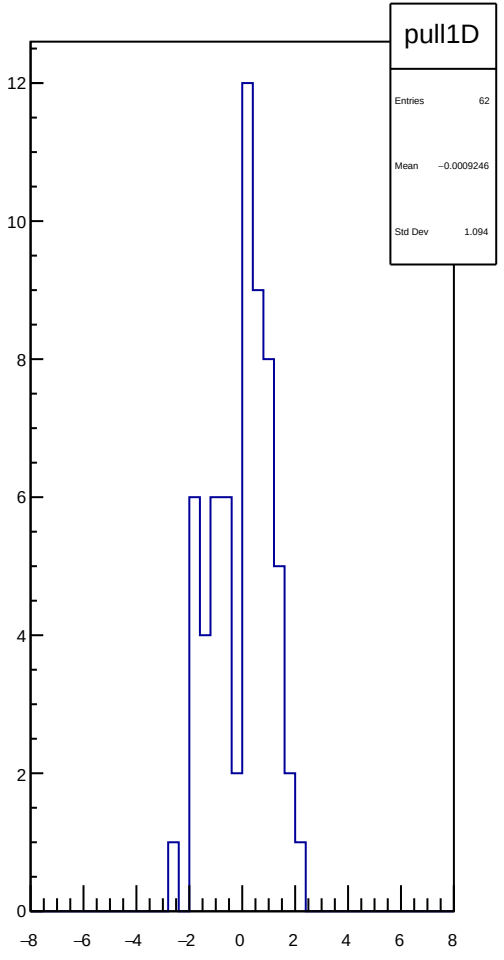
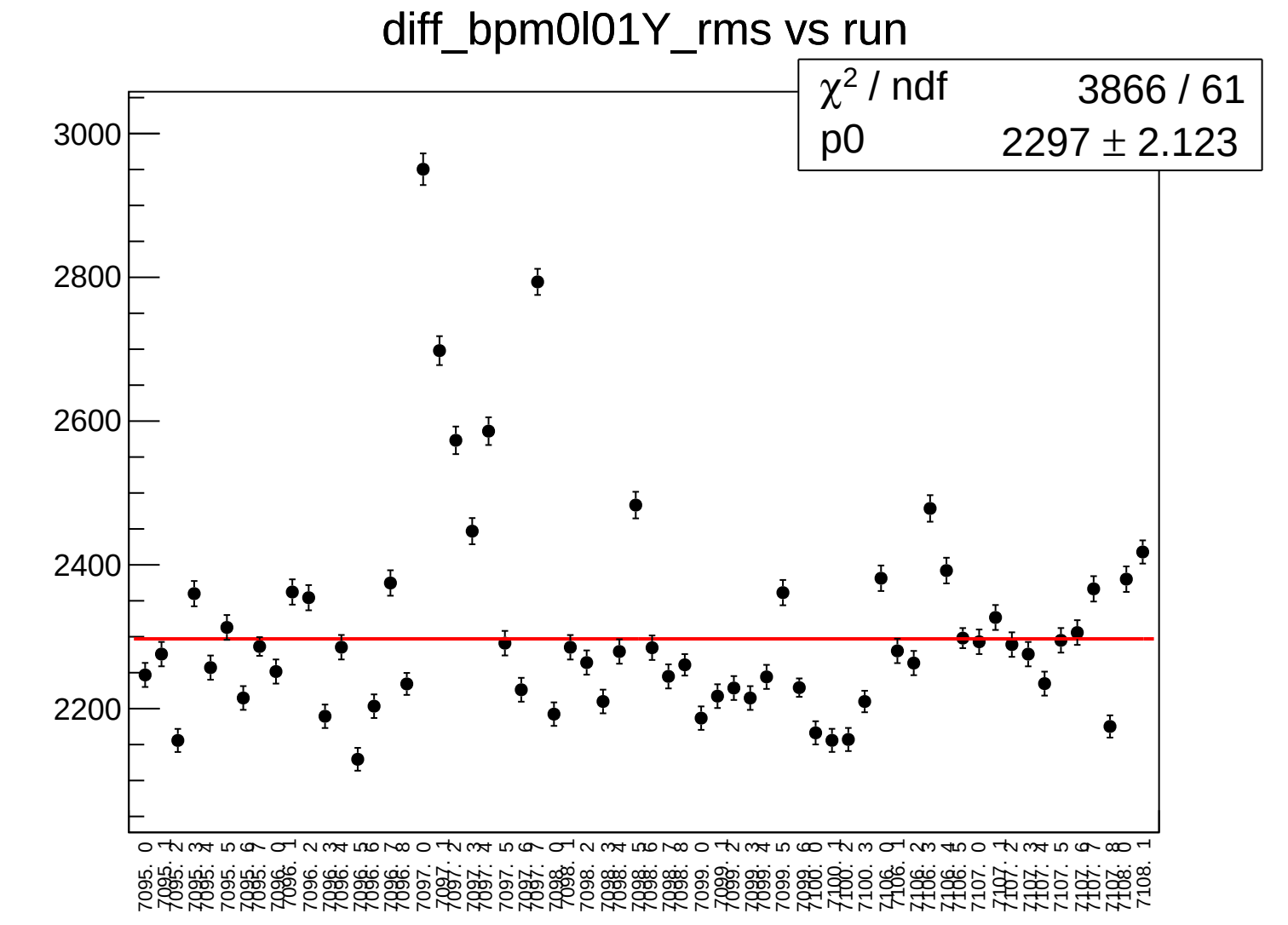
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1


diff_bpm0l01Y_mean vs run
χ^2 / ndf 74.24 / 61
p0 3.147 ± 3.003
pull
Entries 62
Mean 8120
Std Dev 8086


pull1D
Entries 62
Mean −0.0009246
Std Dev 1.094


diff_bpm0l01Y_rms vs run
χ² / ndf 3866 / 61
p0 2297 ± 2.123
3000
2800
2600
2400
2200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
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7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
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7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
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7099. 7
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7100. 1
7100. 2
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7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
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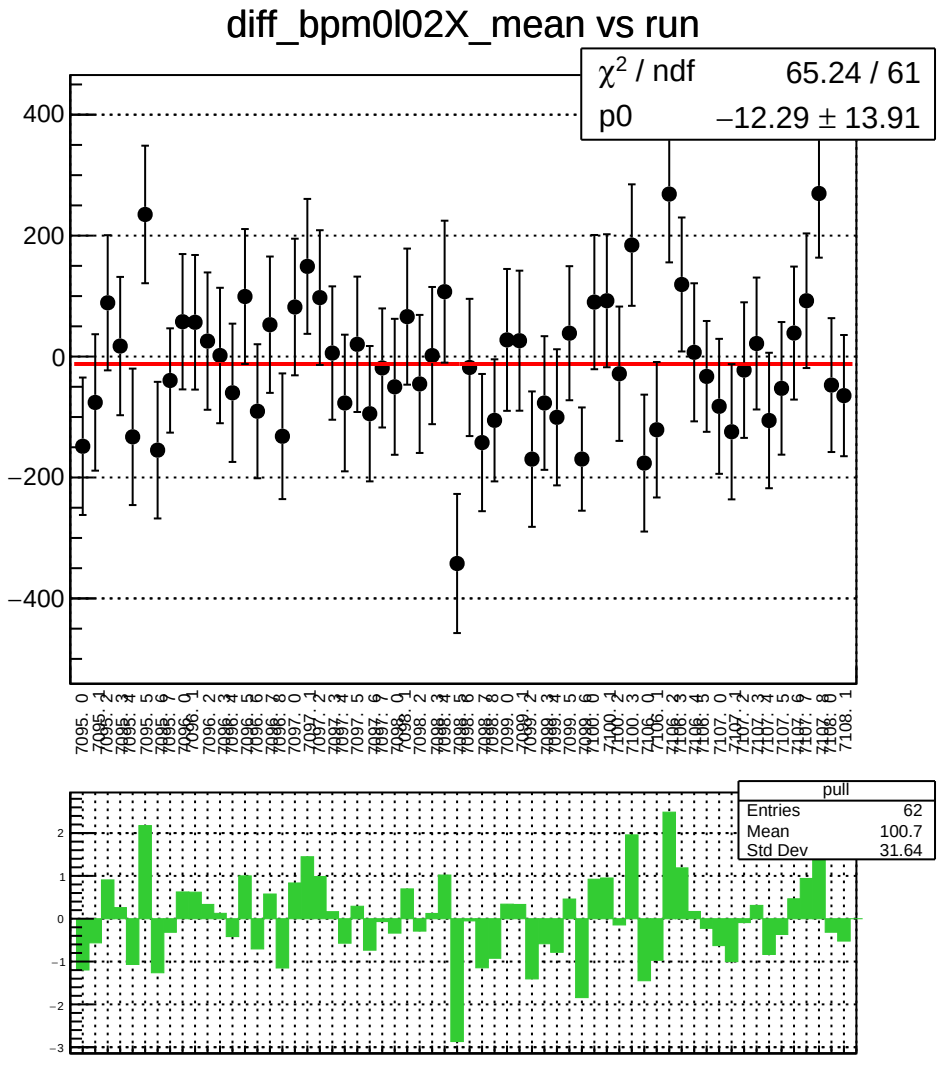
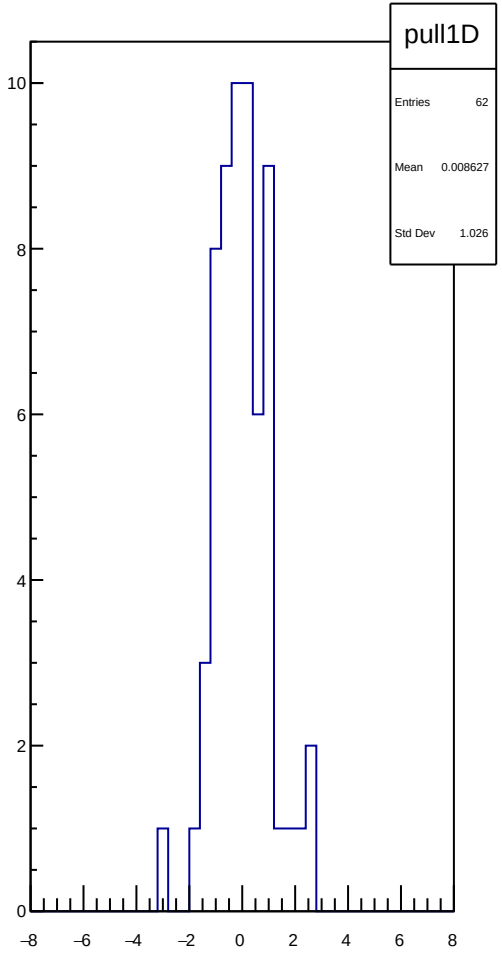
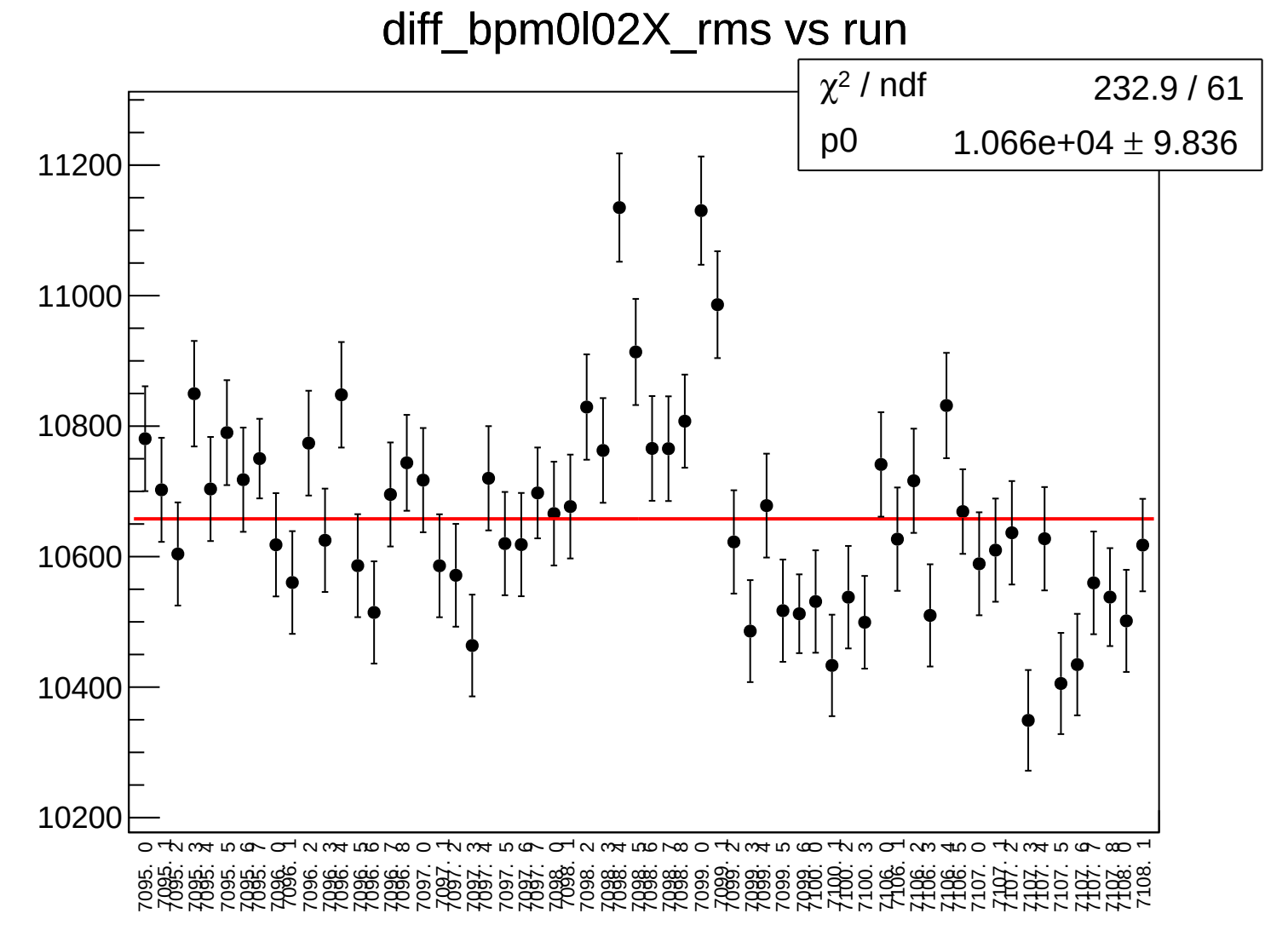
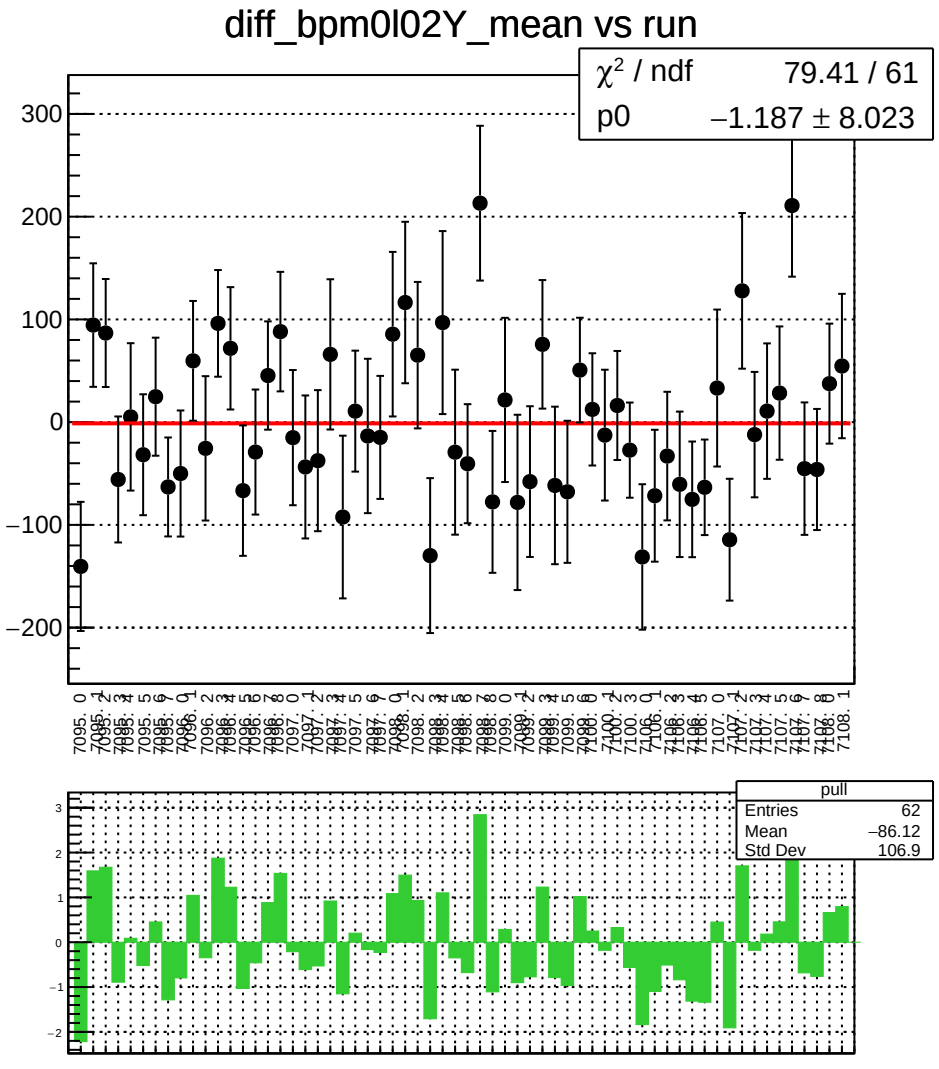
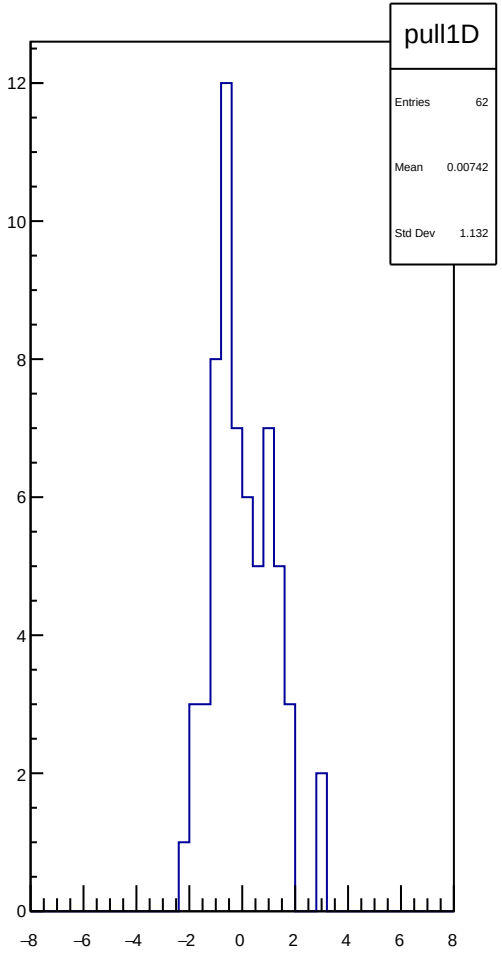
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

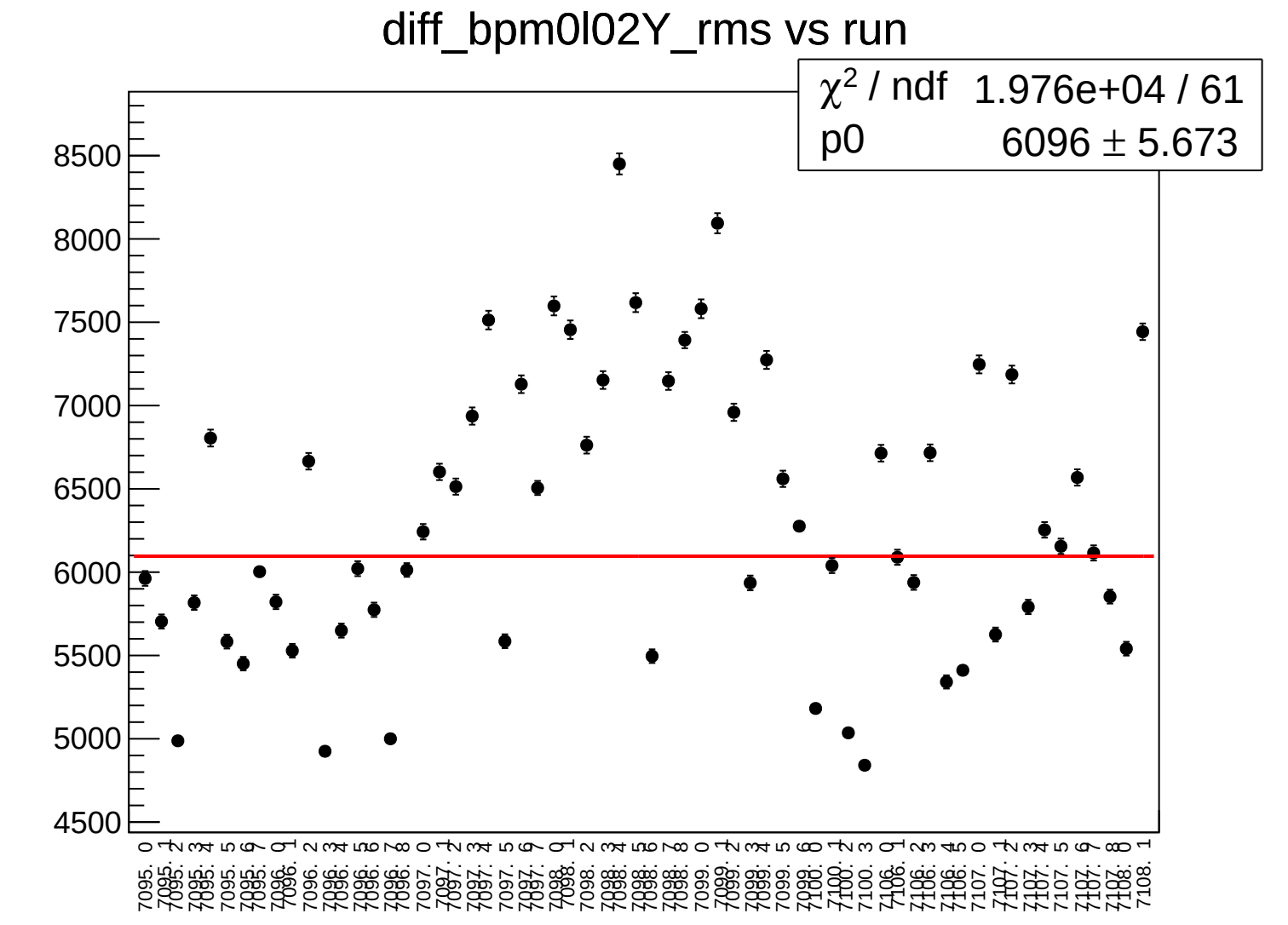

diff_bpm0l02X_mean vs run
χ² / ndf 65.24 / 61
p0 −12.29 ± 13.91
pull
Entries 62
Mean 100.7
Std Dev 31.64


pull1D
Entries 62
Mean 0.008627
Std Dev 1.026


diff_bpm0l02X_rms vs run
χ² / ndf 232.9 / 61
p0 1.066e+04 ± 9.836
11200
11000
10800
10600
10400
10200


diff_bpm0l02Y_mean vs run
χ² / ndf 79.41 / 61
p0 −1.187 ± 8.023
pull
Entries 62
Mean −86.12
Std Dev 106.9


pull1D
Entries 62
Mean 0.00742
Std Dev 1.132


diff_bpm0l02Y_rms vs run
χ² / ndf 1.976e+04 / 61
p0 6096 ± 5.673
8500
8000
7500
7000
6500
6000
5500
5000
4500
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
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7099. 9
7100. 0
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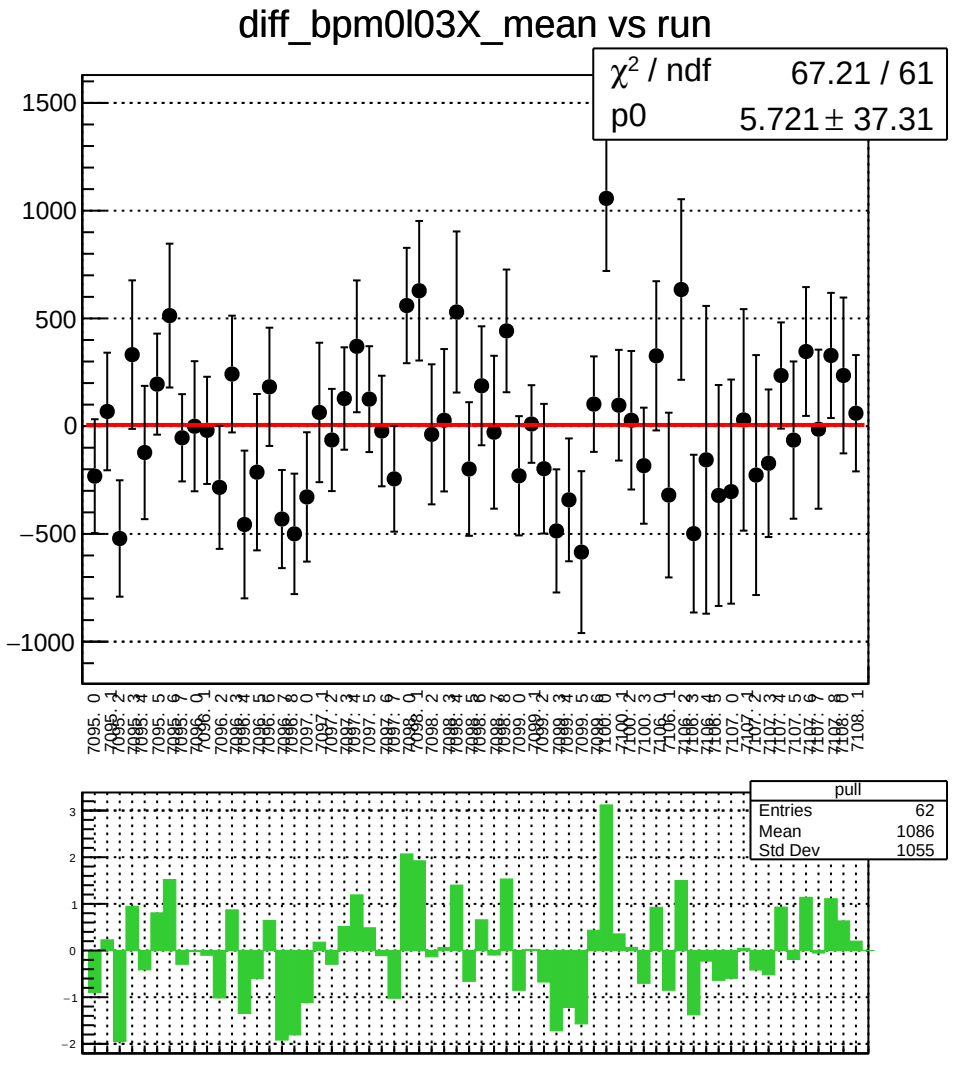
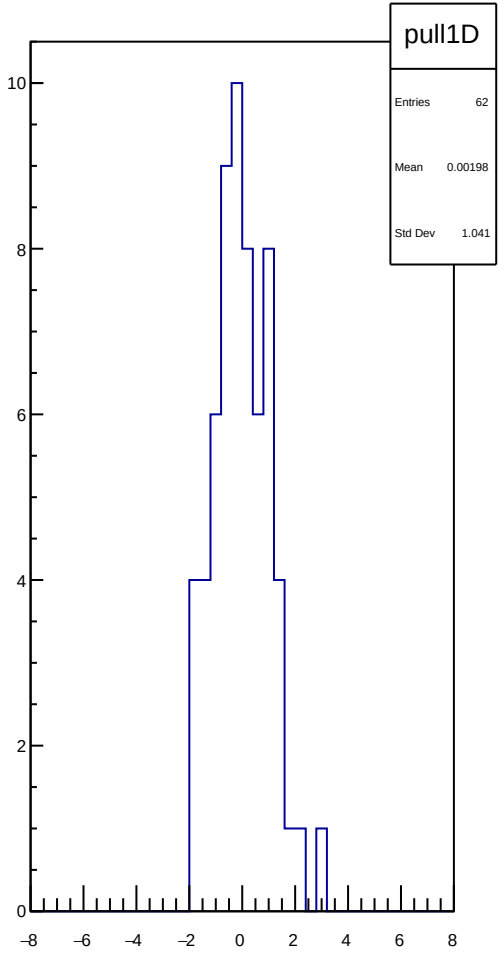
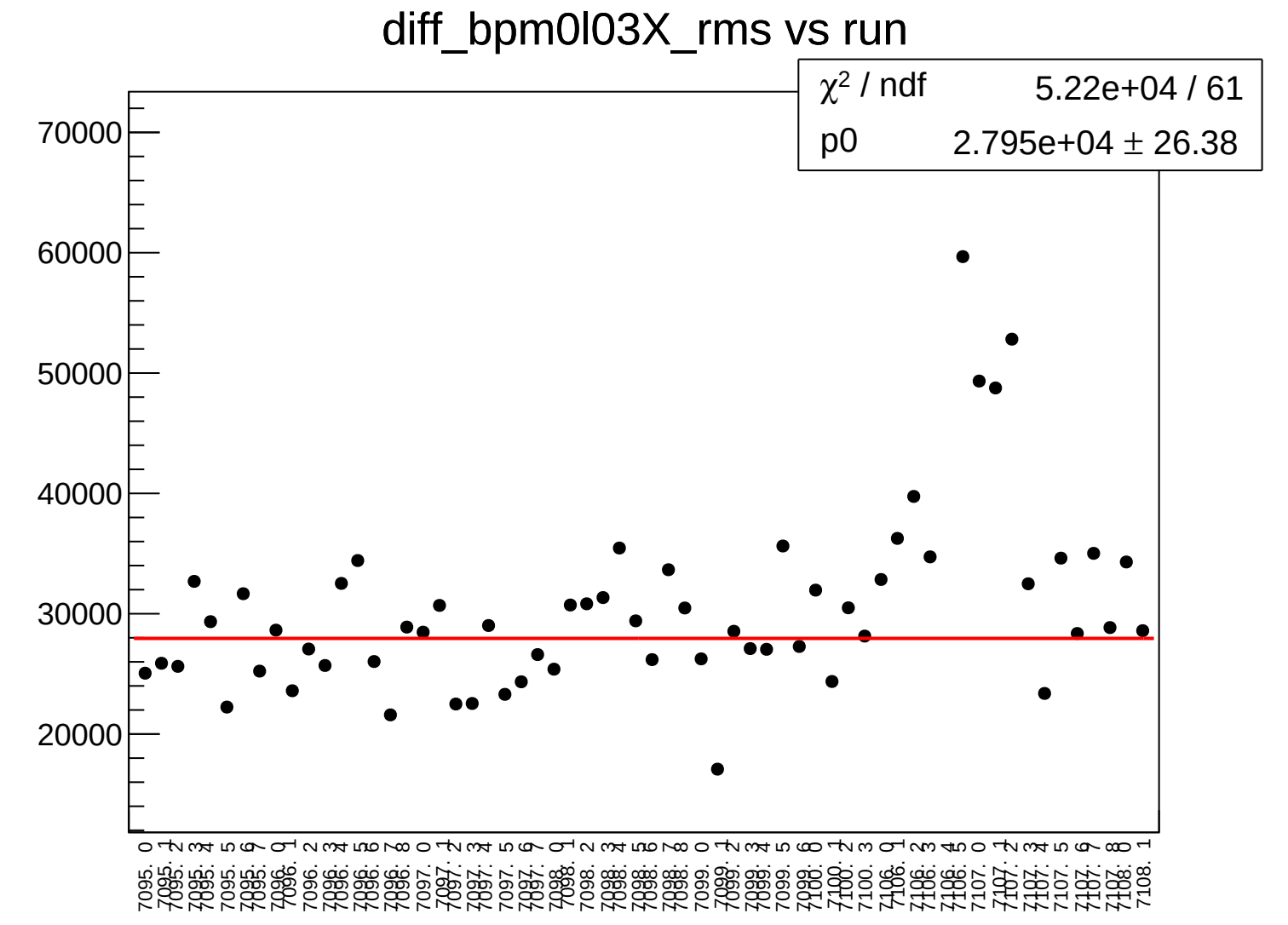
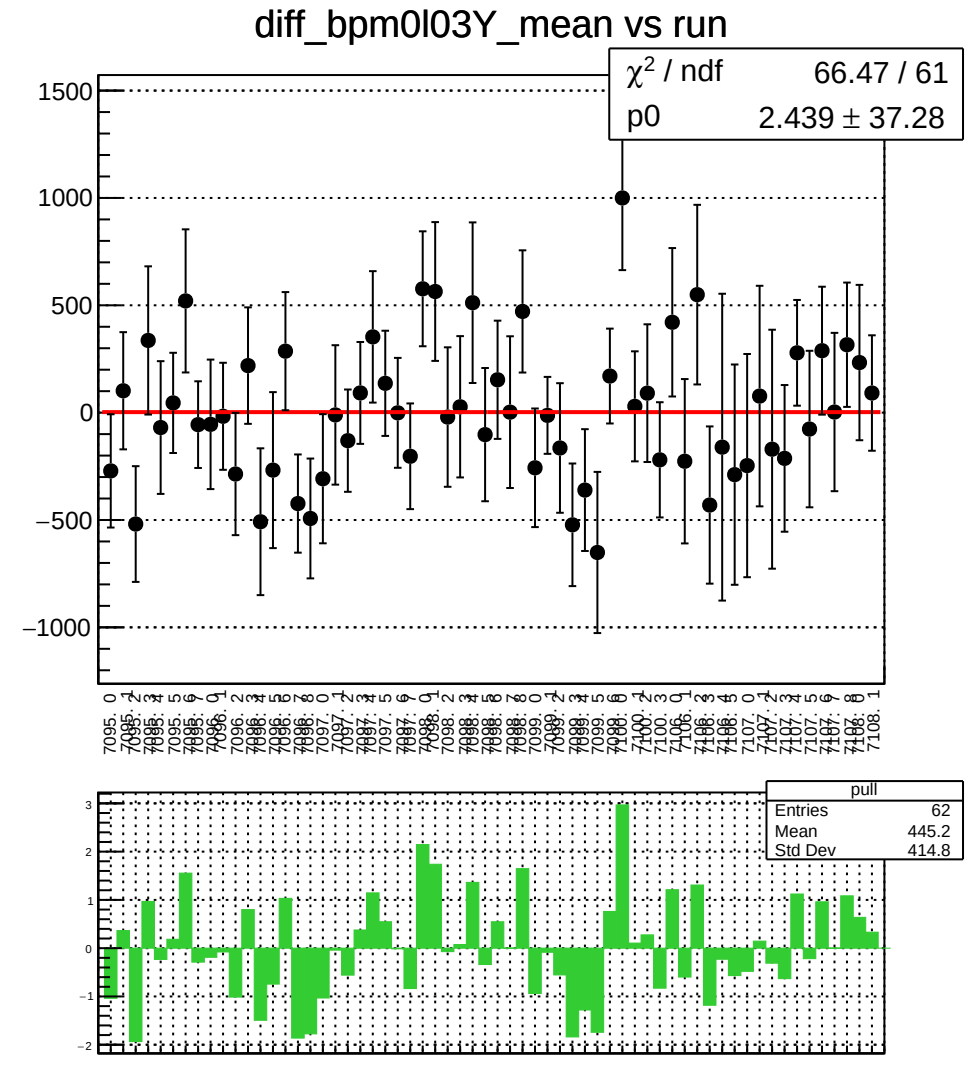
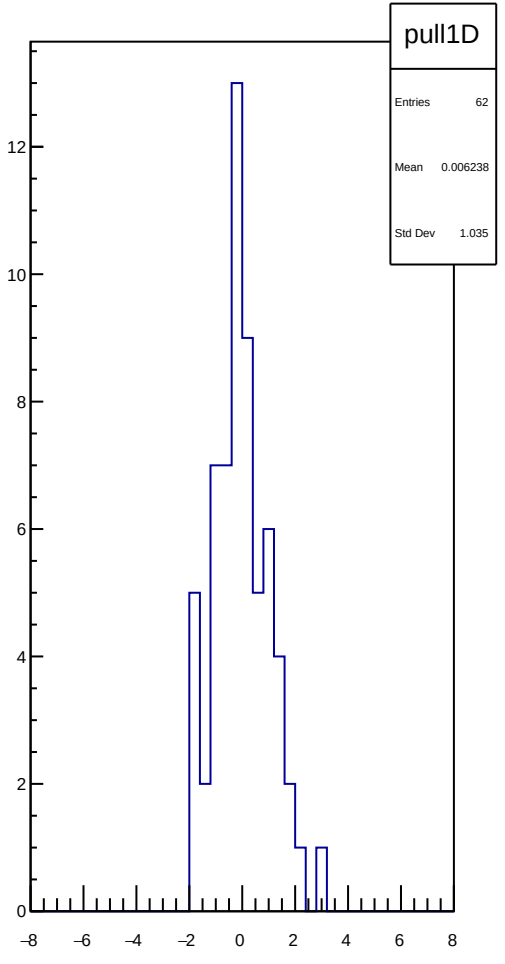
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

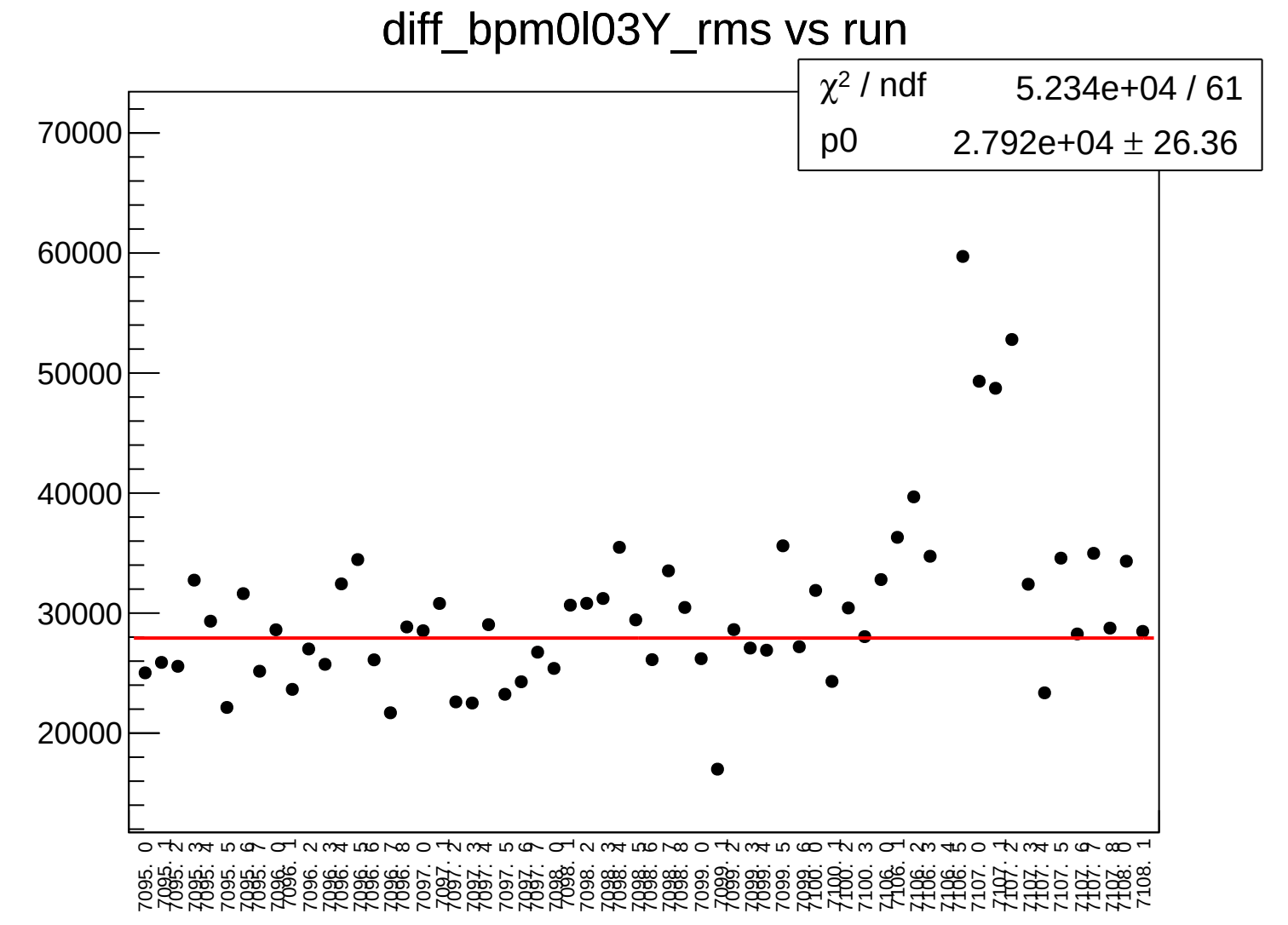

diff_bpm0l03X_mean vs run
χ² / ndf 67.21 / 61
p0 5.721 ± 37.31
1500
1000
500
0
−500
−1000
pull
Entries 62
Mean 1086
Std Dev 1055
3
2
1
0
−1
−2

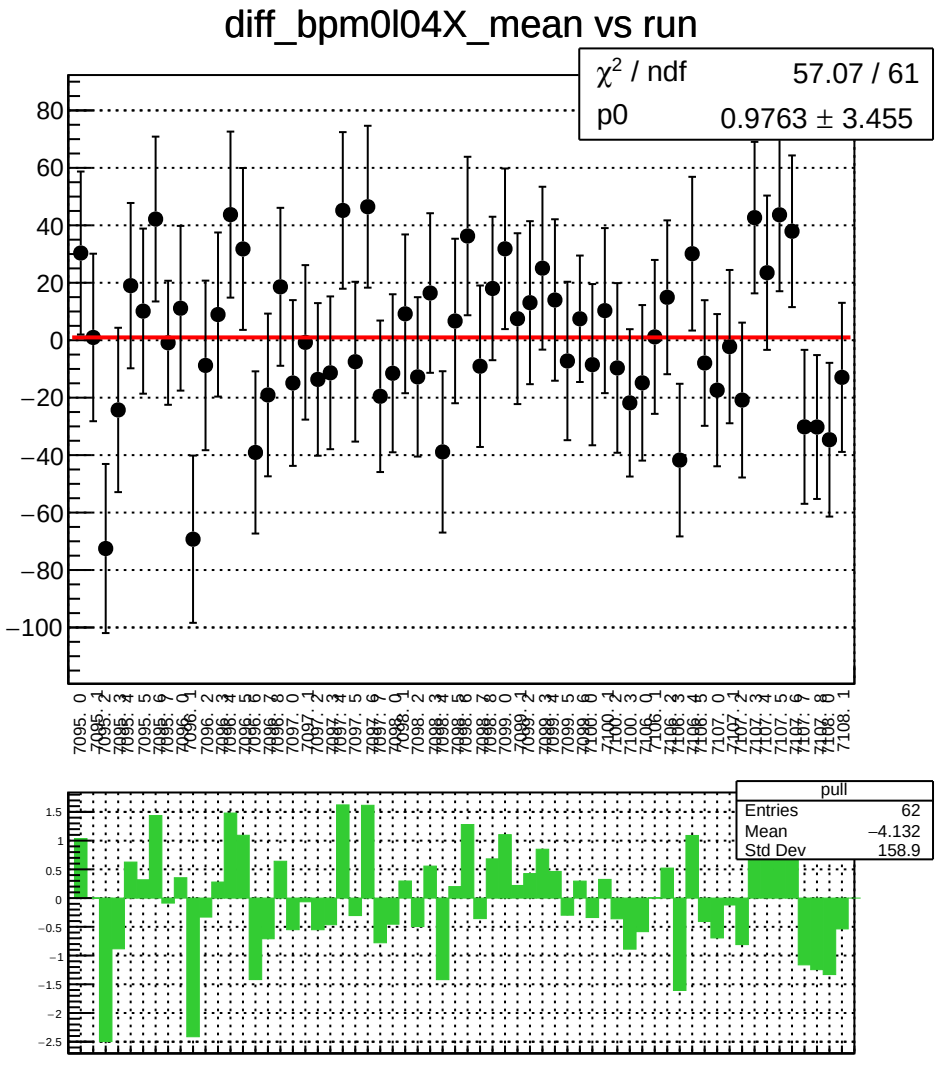

pull1D
Entries 62
Mean 0.00198
Std Dev 1.041
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

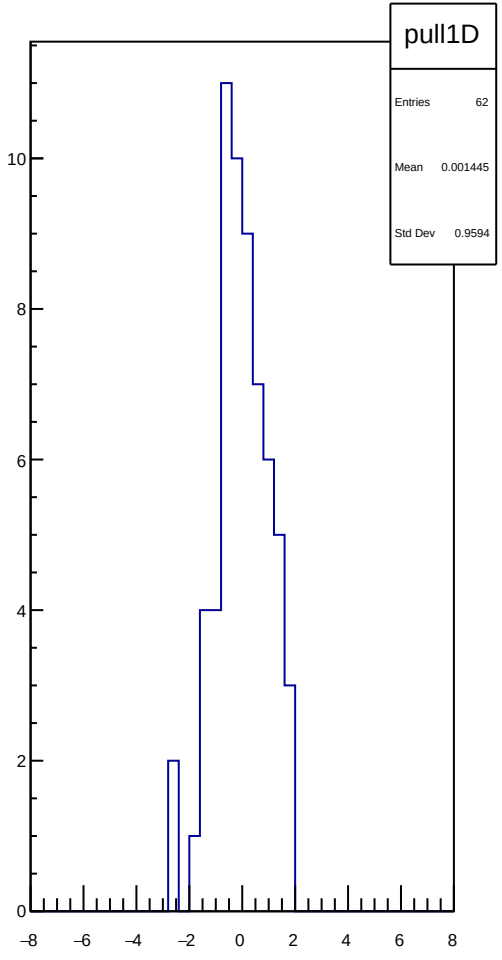

diff_bpm0l03X_rms vs run
χ^2 / ndf 5.22e+04 / 61
p0 2.795e+04 ± 26.38
70000
60000
50000
40000
30000
20000

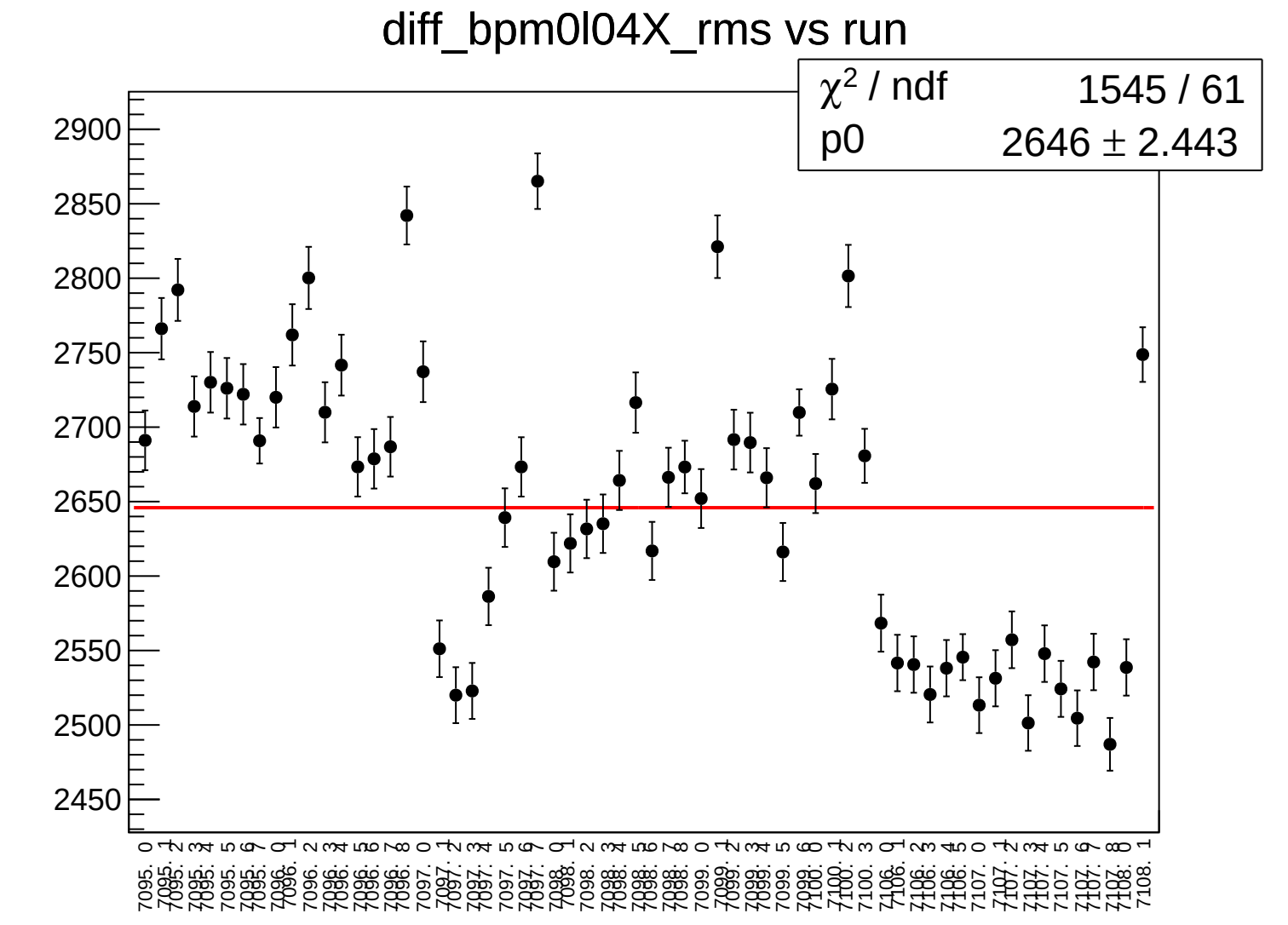

diff_bpm0l03Y_mean vs run
χ² / ndf 66.47 / 61
p0 2.439 ± 37.28
pull
Entries 62
Mean 445.2
Std Dev 414.8

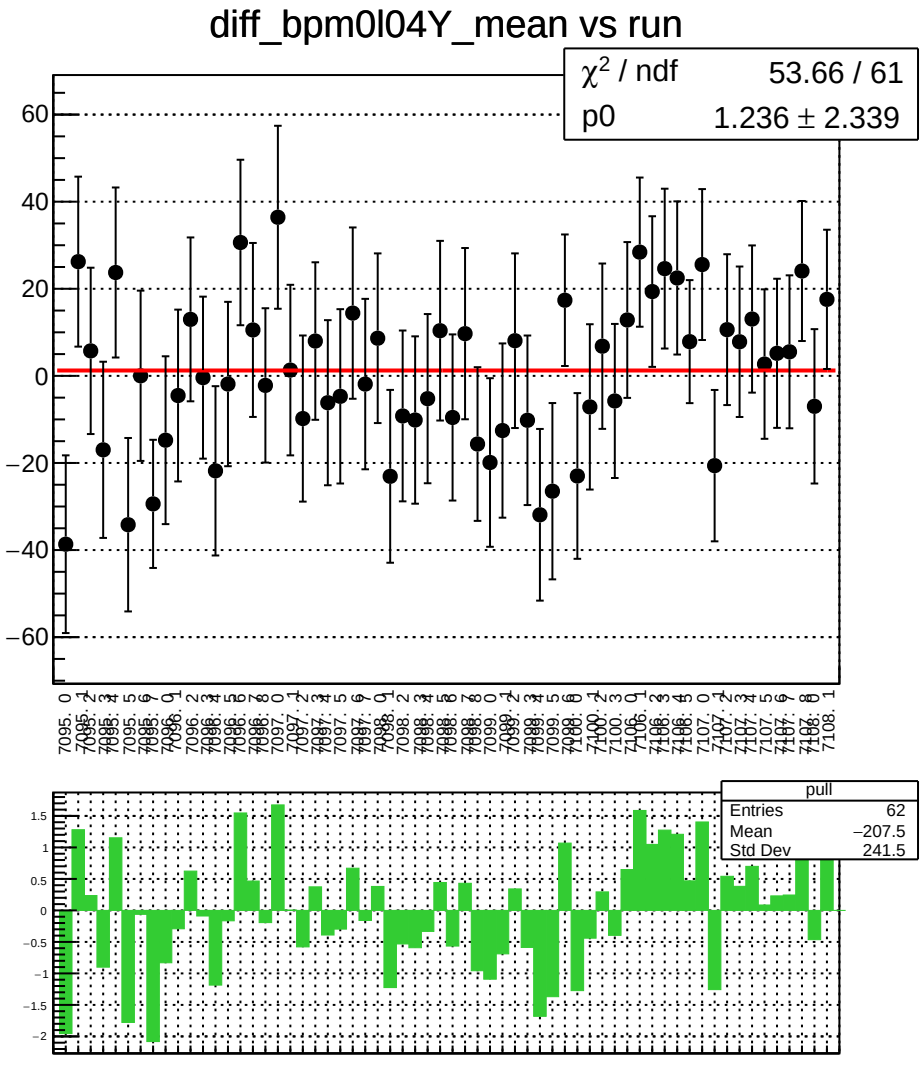

pull1D
Entries 62
Mean 0.006238
Std Dev 1.035

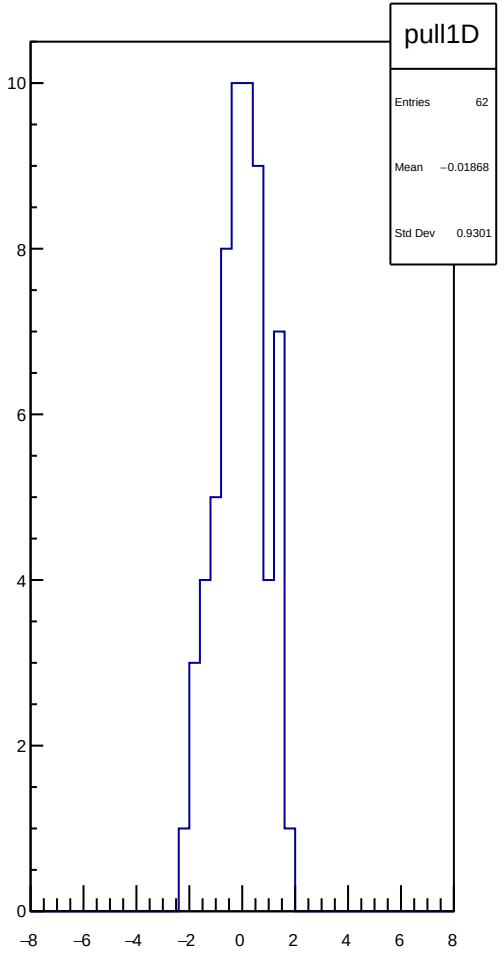

diff_bpm0l03Y_rms vs run
χ^2 / ndf 5.234e+04 / 61
p0 2.792e+04 ± 26.36
70000
60000
50000
40000
30000
20000

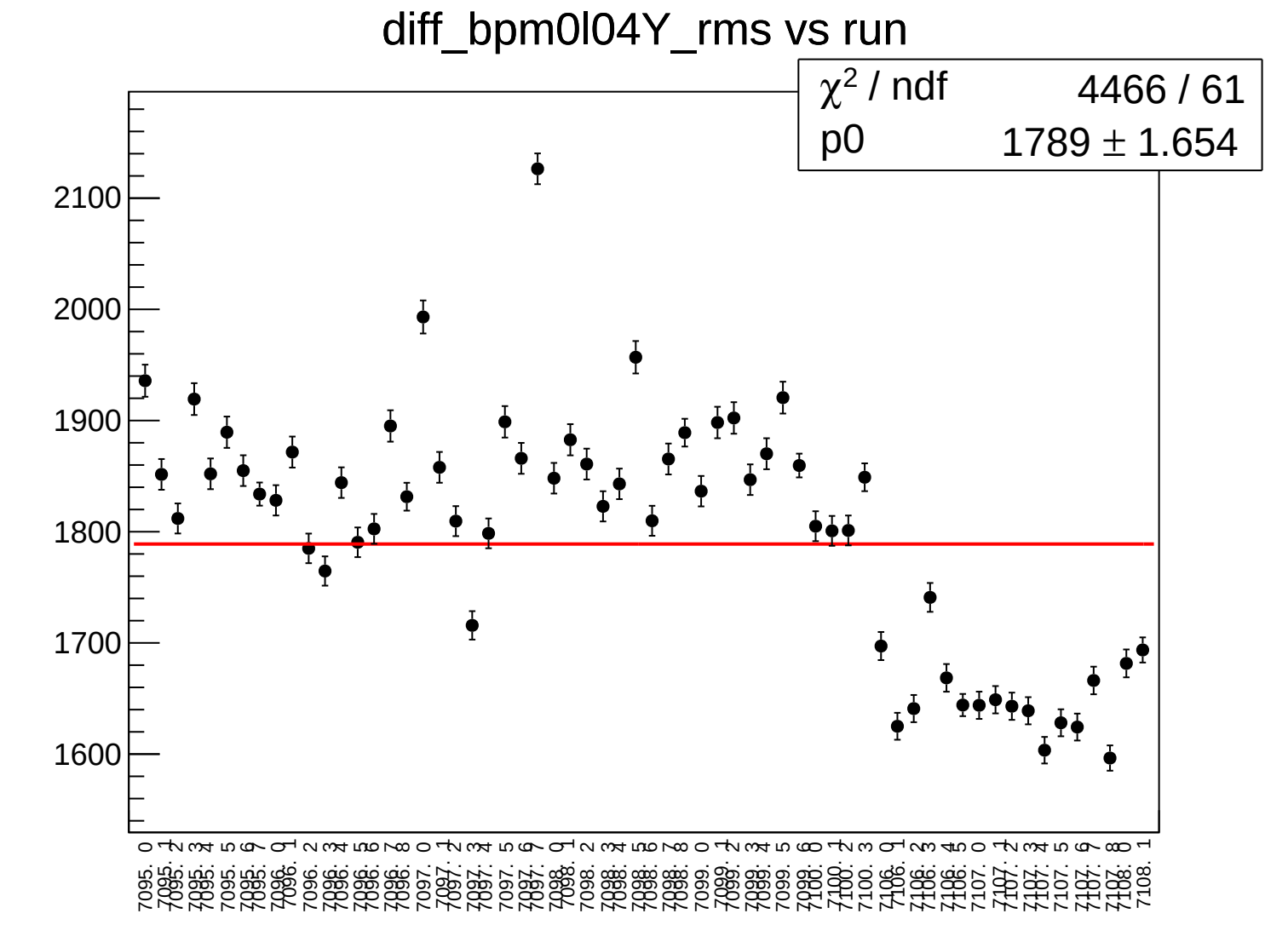

diff_bpm0l04X_mean vs run
χ² / ndf 57.07 / 61
p0 0.9763 ± 3.455
pull
Entries 62
Mean −4.132
Std Dev 158.9

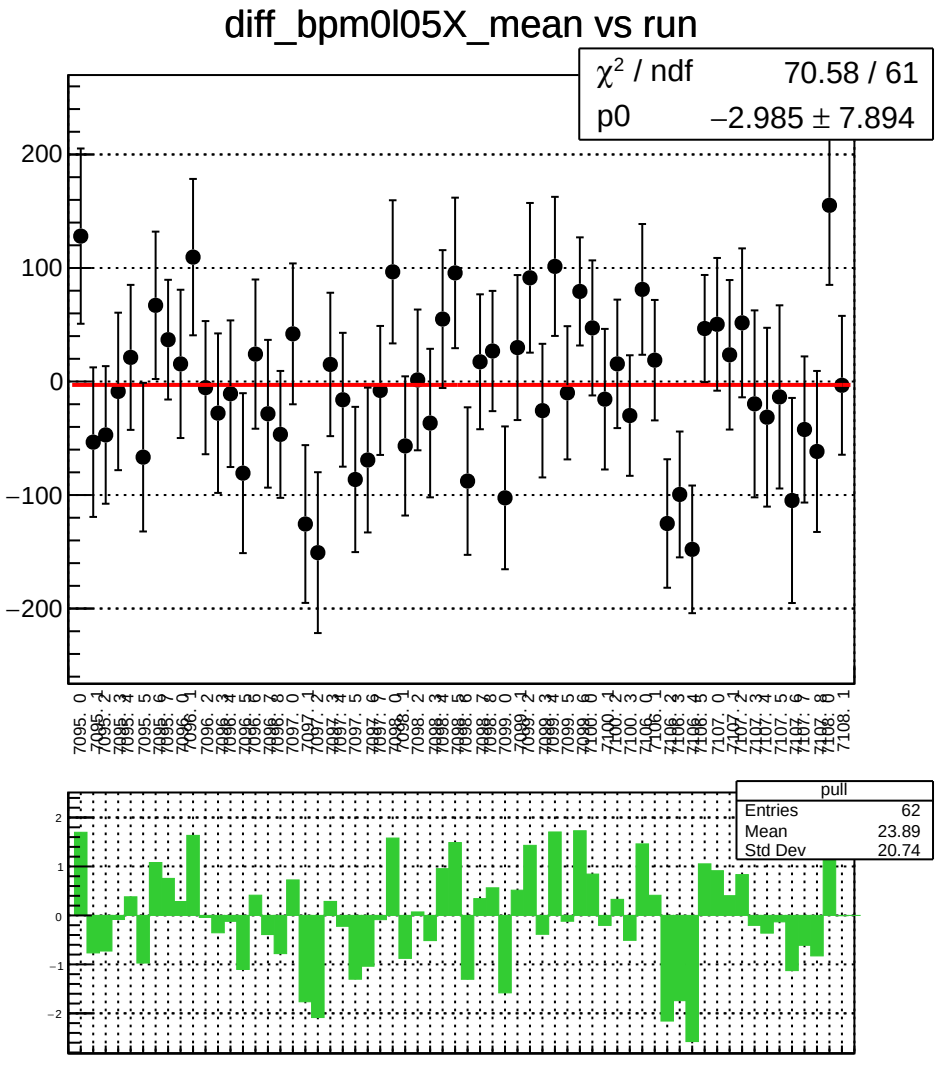

pull1D
Entries 62
Mean 0.001445
Std Dev 0.9594

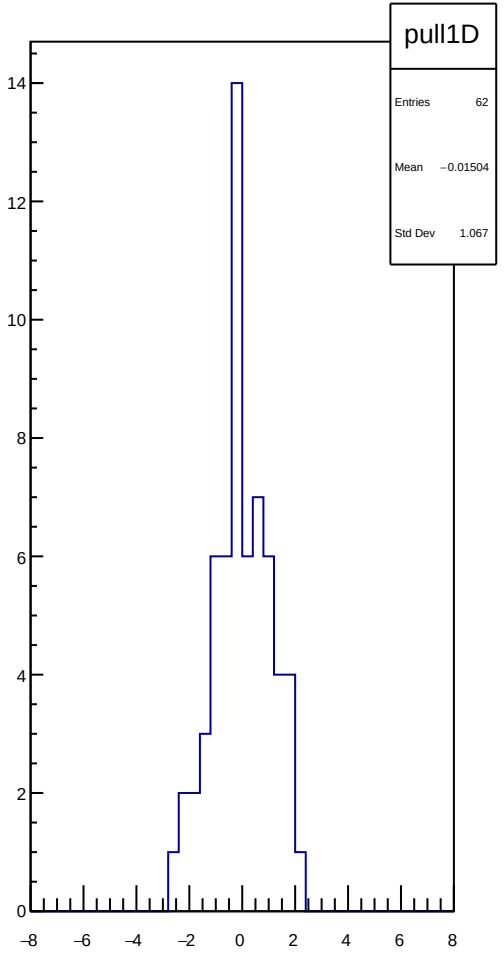

diff_bpm0l04X_rms vs run
χ² / ndf 1545 / 61
p0 2646 ± 2.443
2900
2850
2800
2750
2700
2650
2600
2550
2500
2450

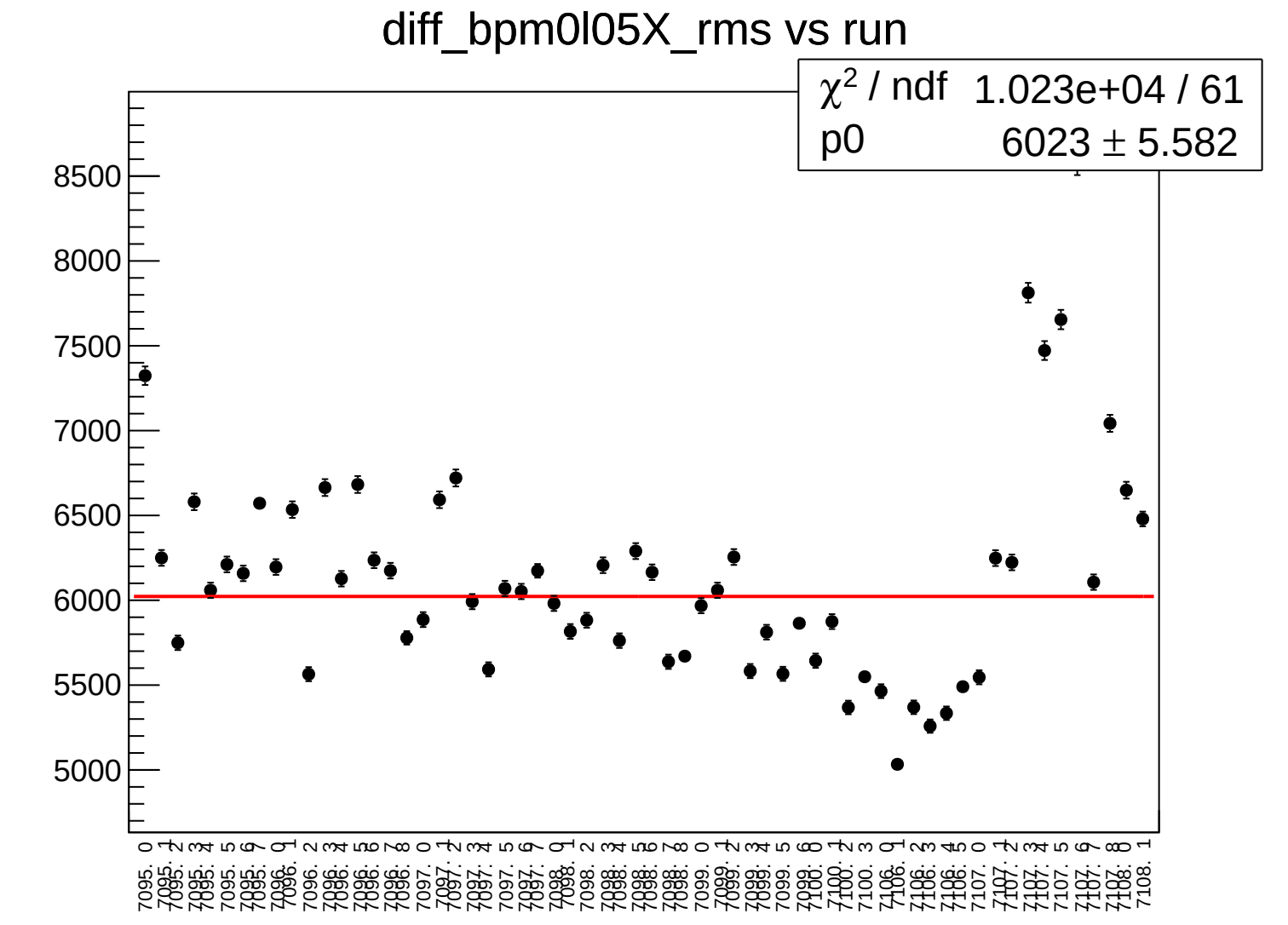

diff_bpm0l04Y_mean vs run
χ^2 / ndf 53.66 / 61
p0 1.236 ± 2.339
pull
Entries 62
Mean −207.5
Std Dev 241.5

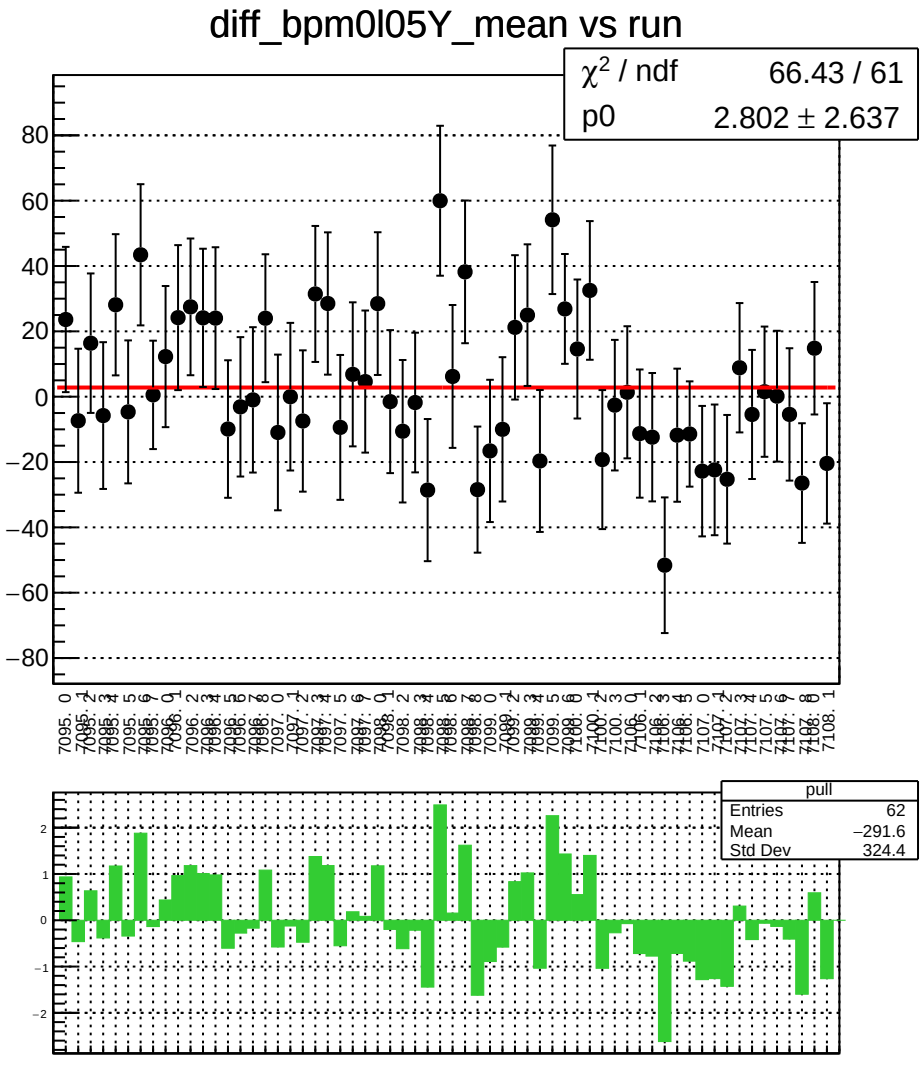

pull1D
Entries 62
Mean −0.01868
Std Dev 0.9301

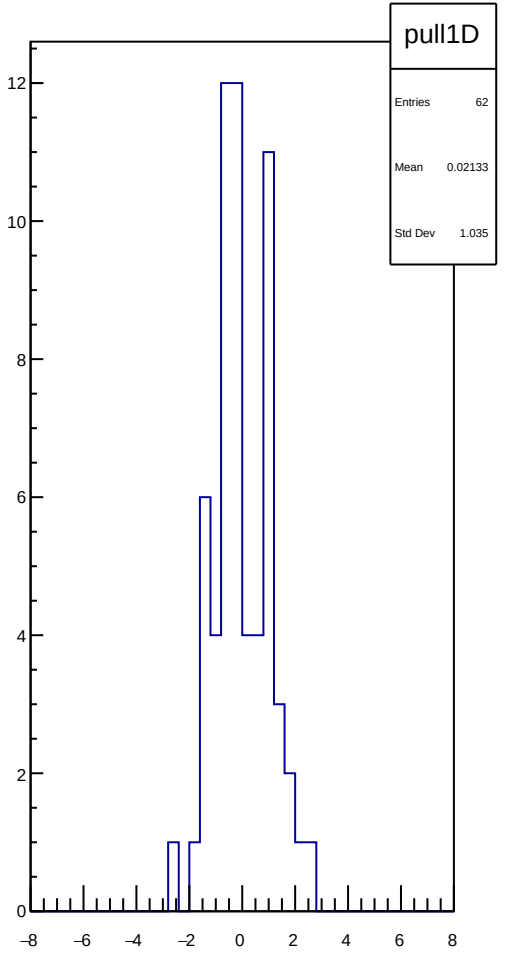

diff_bpm0l04Y_rms vs run
χ² / ndf 4466 / 61
p0 1789 ± 1.654
2100
2000
1900
1800
1700
1600
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

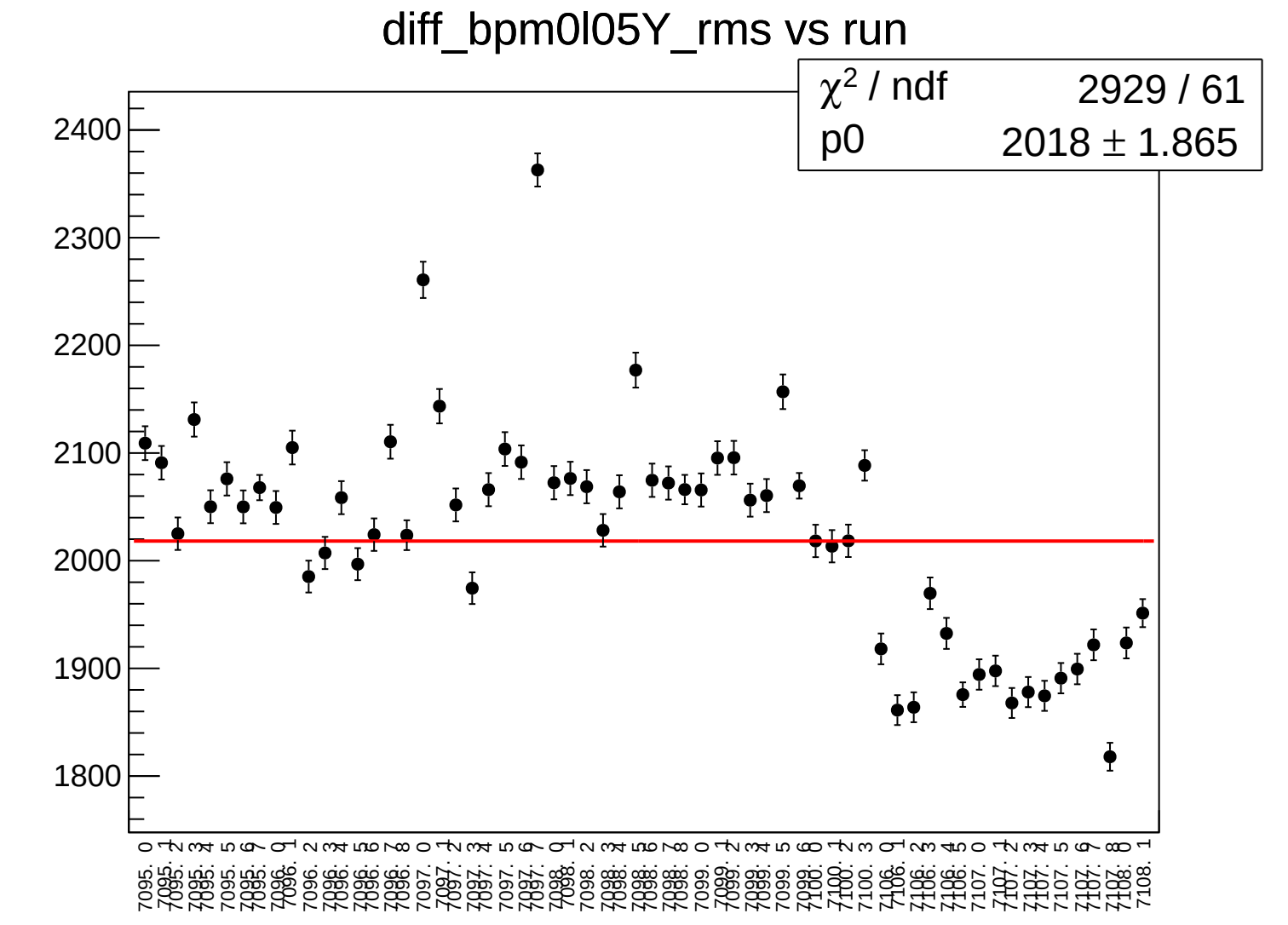

diff_bpm0l05X_mean vs run
χ² / ndf 70.58 / 61
p0 −2.985 ± 7.894
200
100
0
−100
−200
pull
Entries 62
Mean 23.89
Std Dev 20.74
2
1
0
−1
−2

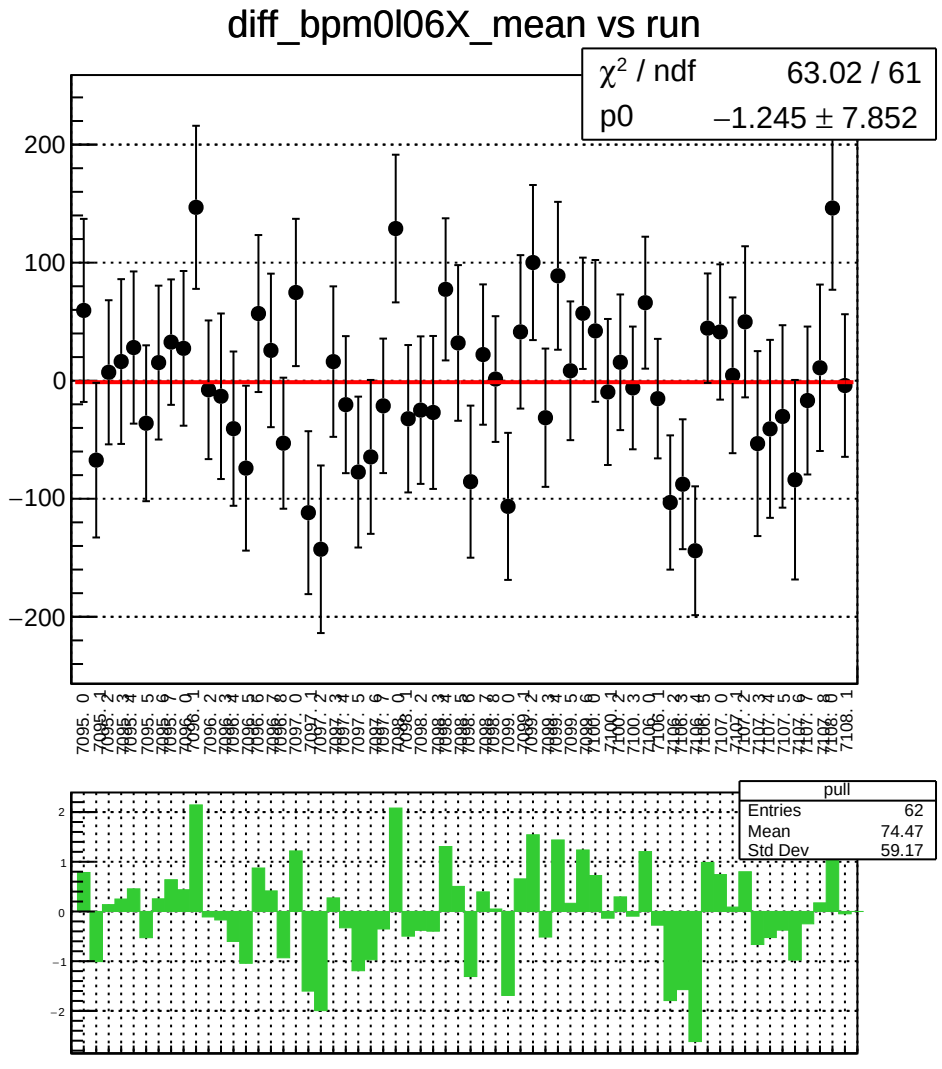

pull1D
Entries 62
Mean −0.01504
Std Dev 1.067
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

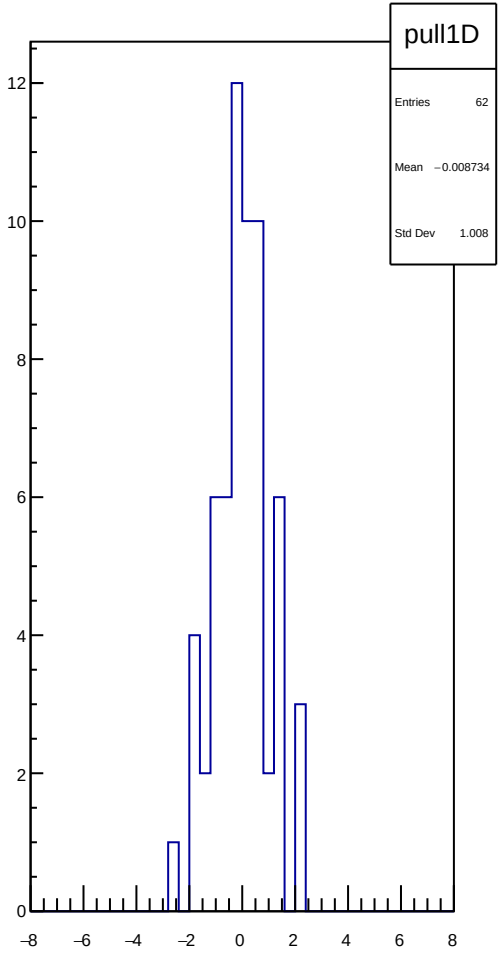

diff_bpm0l05X_rms vs run
χ² / ndf 1.023e+04 / 61
p0 6023 ± 5.582
8500
8000
7500
7000
6500
6000
5500
5000
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

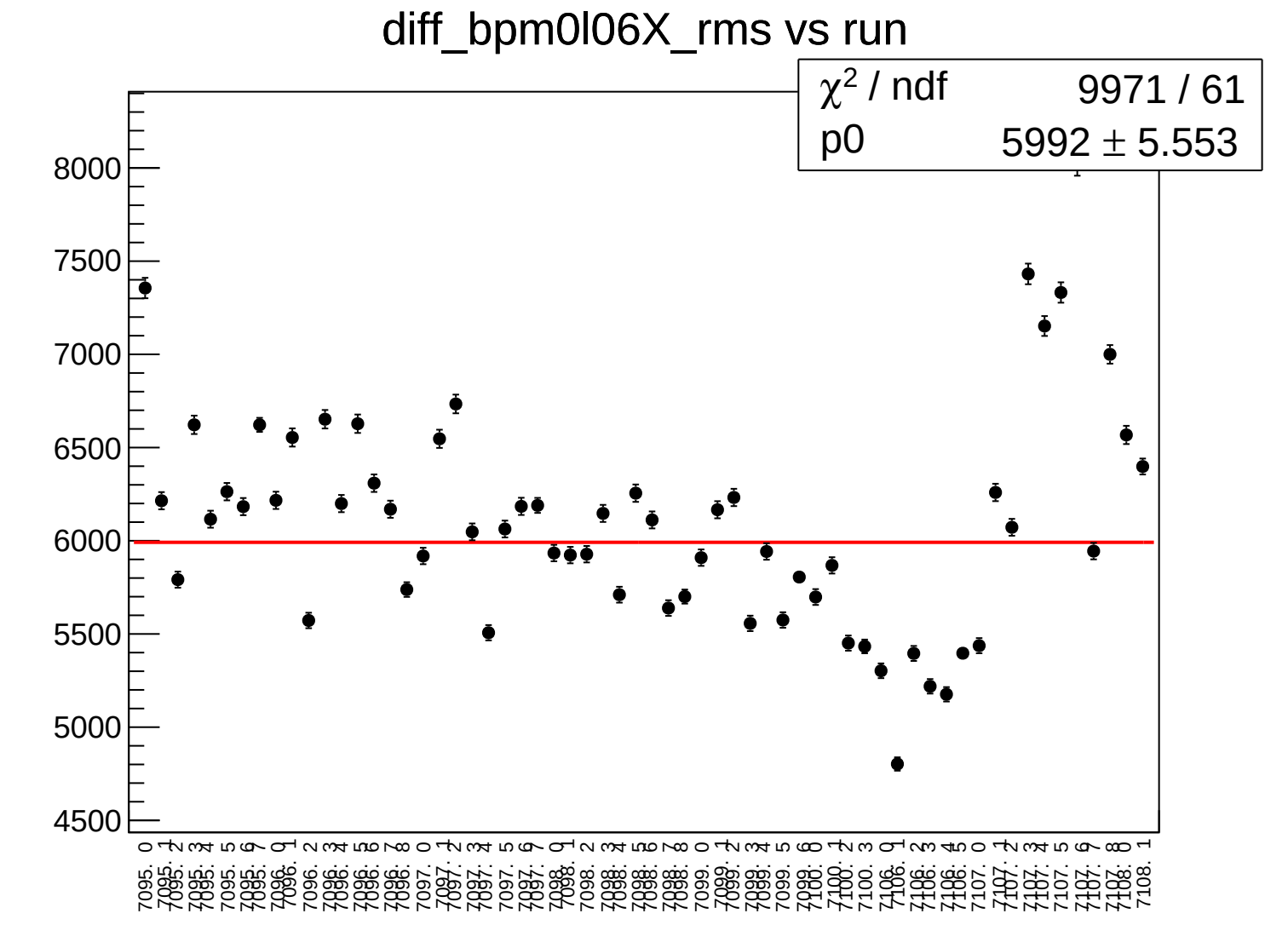

diff_bpm0l05Y_mean vs run
χ² / ndf 66.43 / 61
p0 2.802 ± 2.637
pull
Entries 62
Mean −291.6
Std Dev 324.4

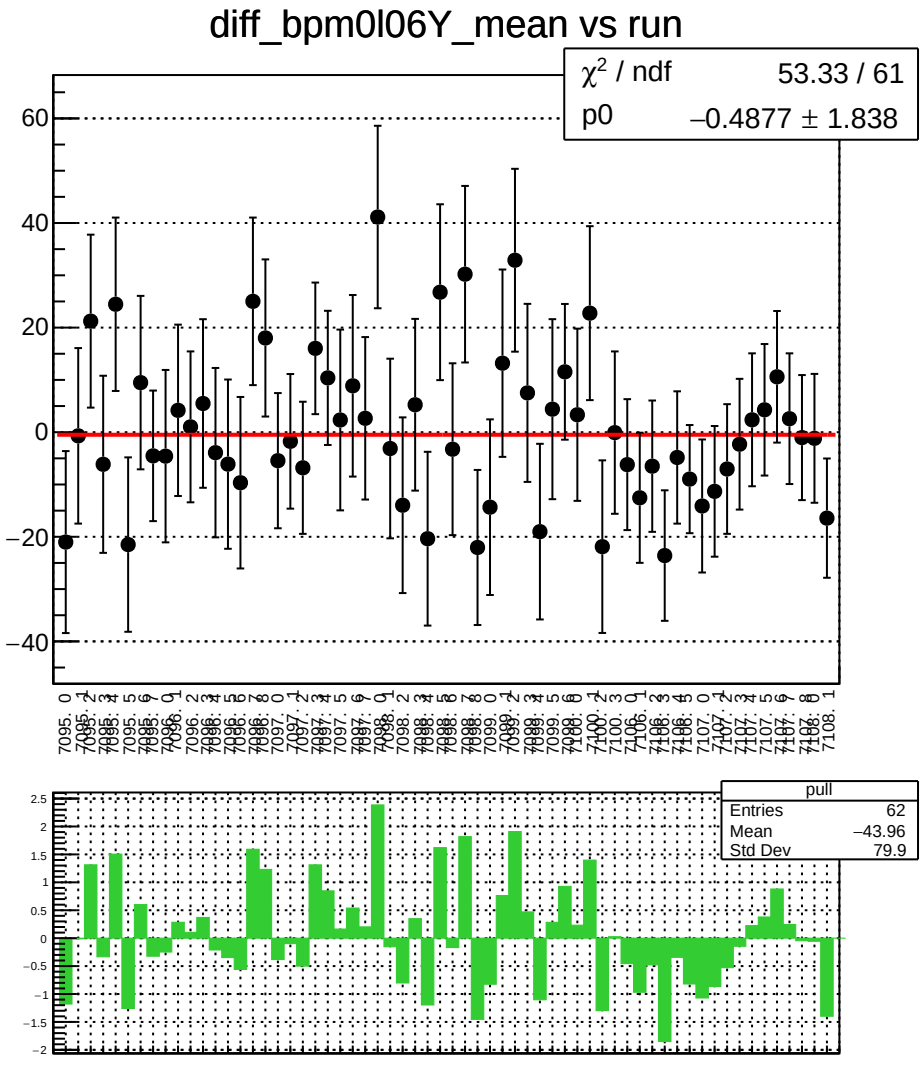

pull1D
Entries 62
Mean 0.02133
Std Dev 1.035

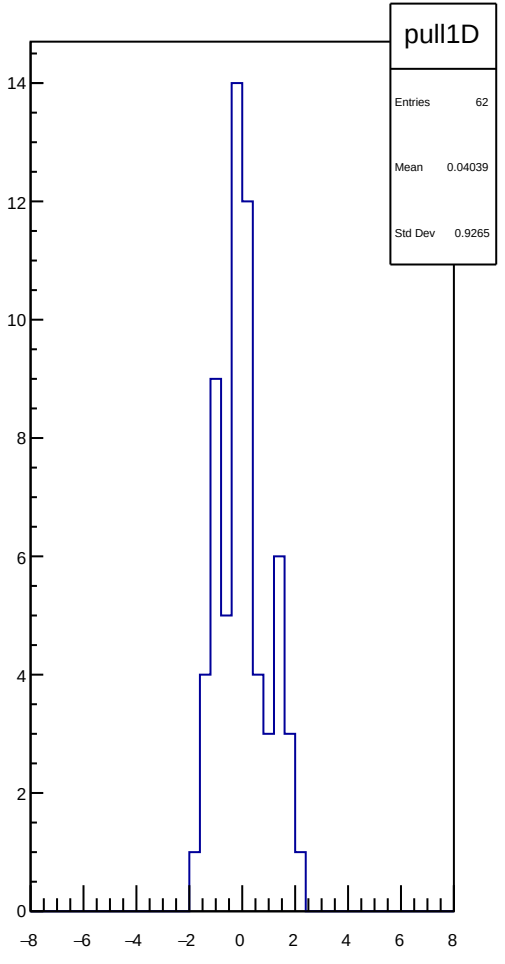

diff_bpm0l05Y_rms vs run
χ² / ndf 2929 / 61
p0 2018 ± 1.865
2400
2300
2200
2100
2000
1900
1800

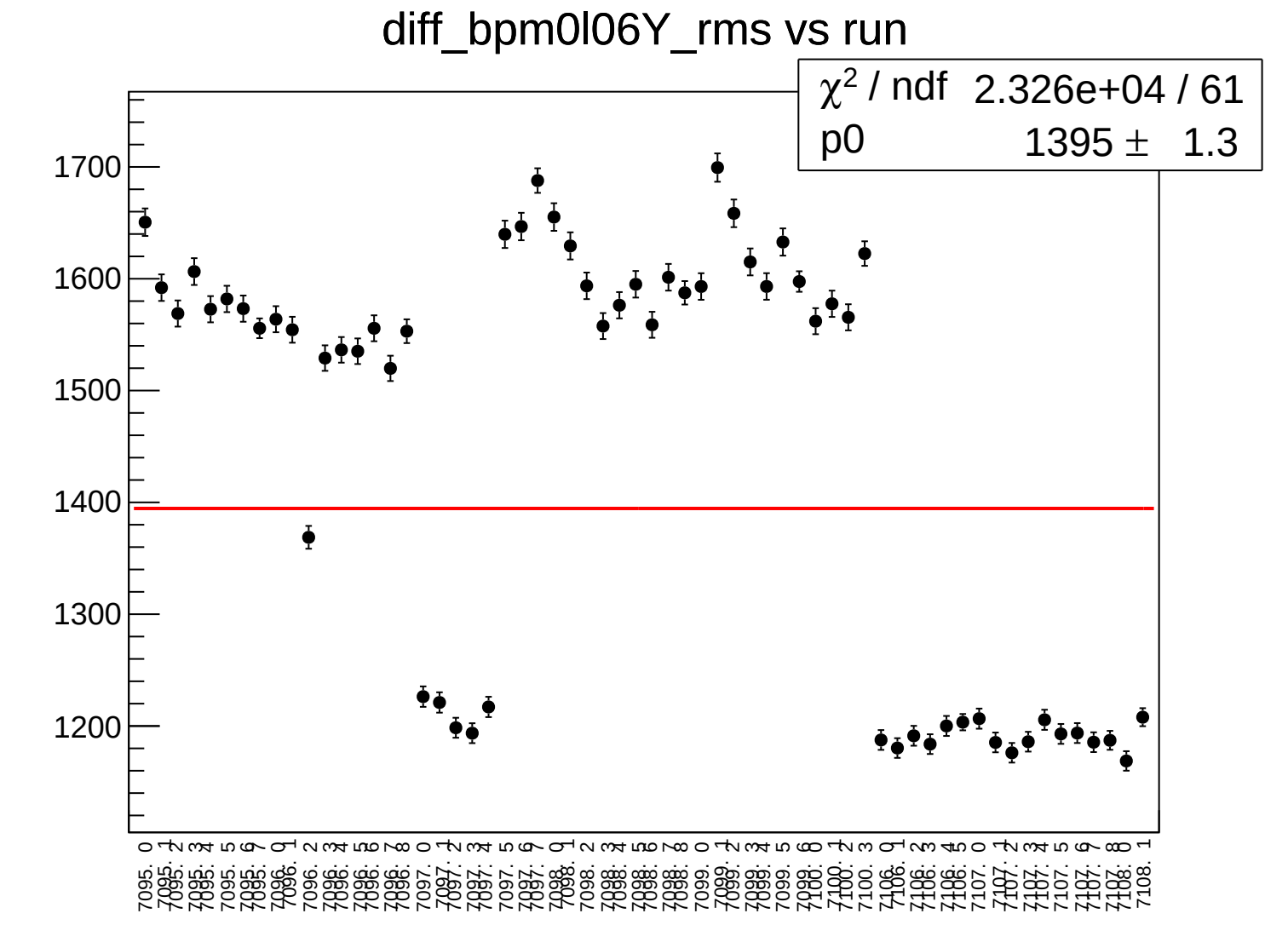

diff_bpm0l06X_mean vs run
χ² / ndf 63.02 / 61
p0 −1.245 ± 7.852
200
100
0
−100
−200
pull
Entries 62
Mean 74.47
Std Dev 59.17
2
1
0
−1
−2

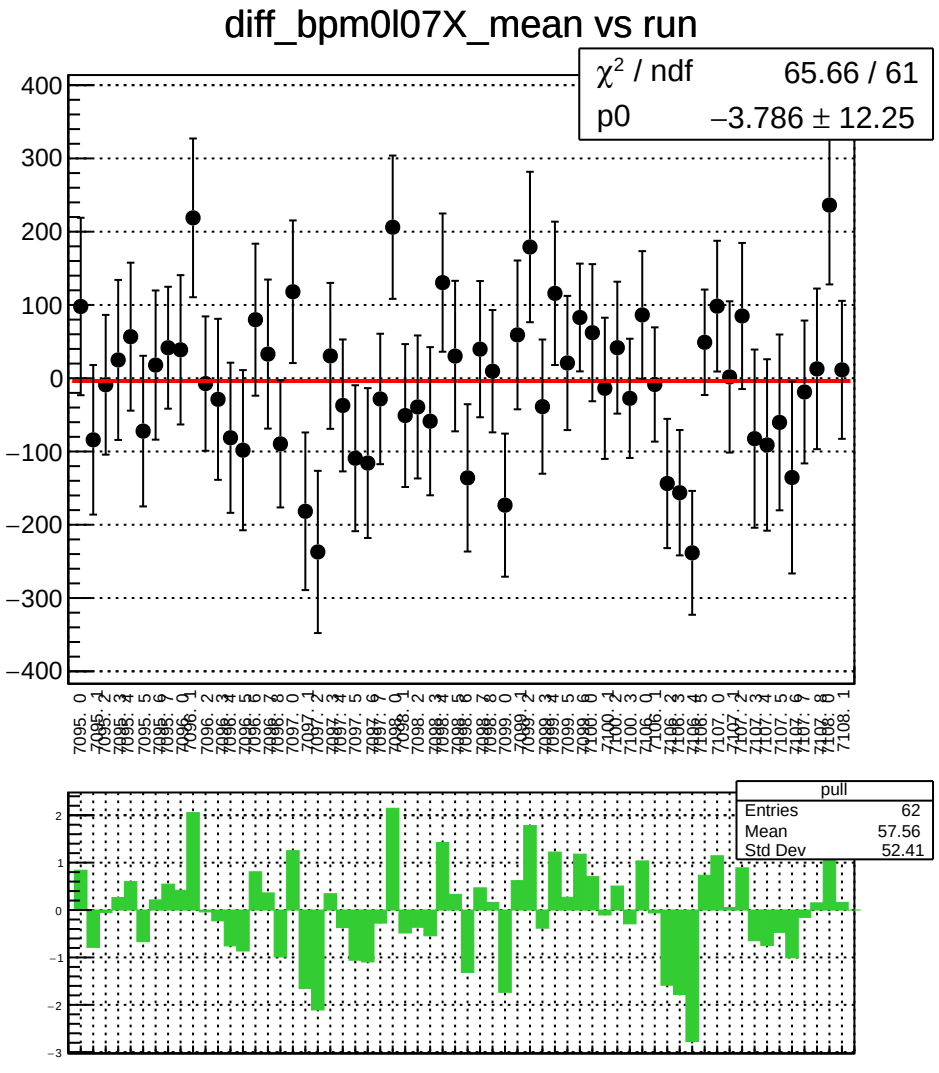

pull1D
Entries 62
Mean −0.008734
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

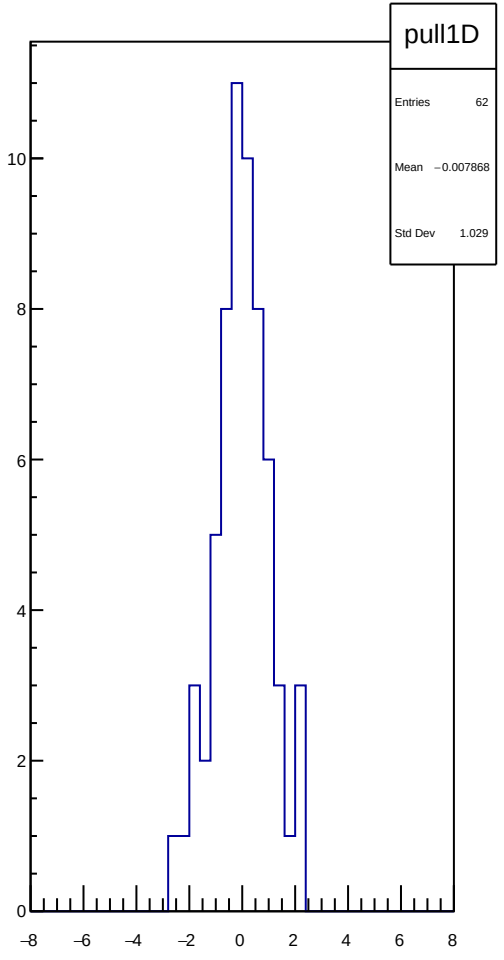

diff_bpm0l06X_rms vs run
χ² / ndf 9971 / 61
p0 5992 ± 5.553
8000
7500
7000
6500
6000
5500
5000
4500

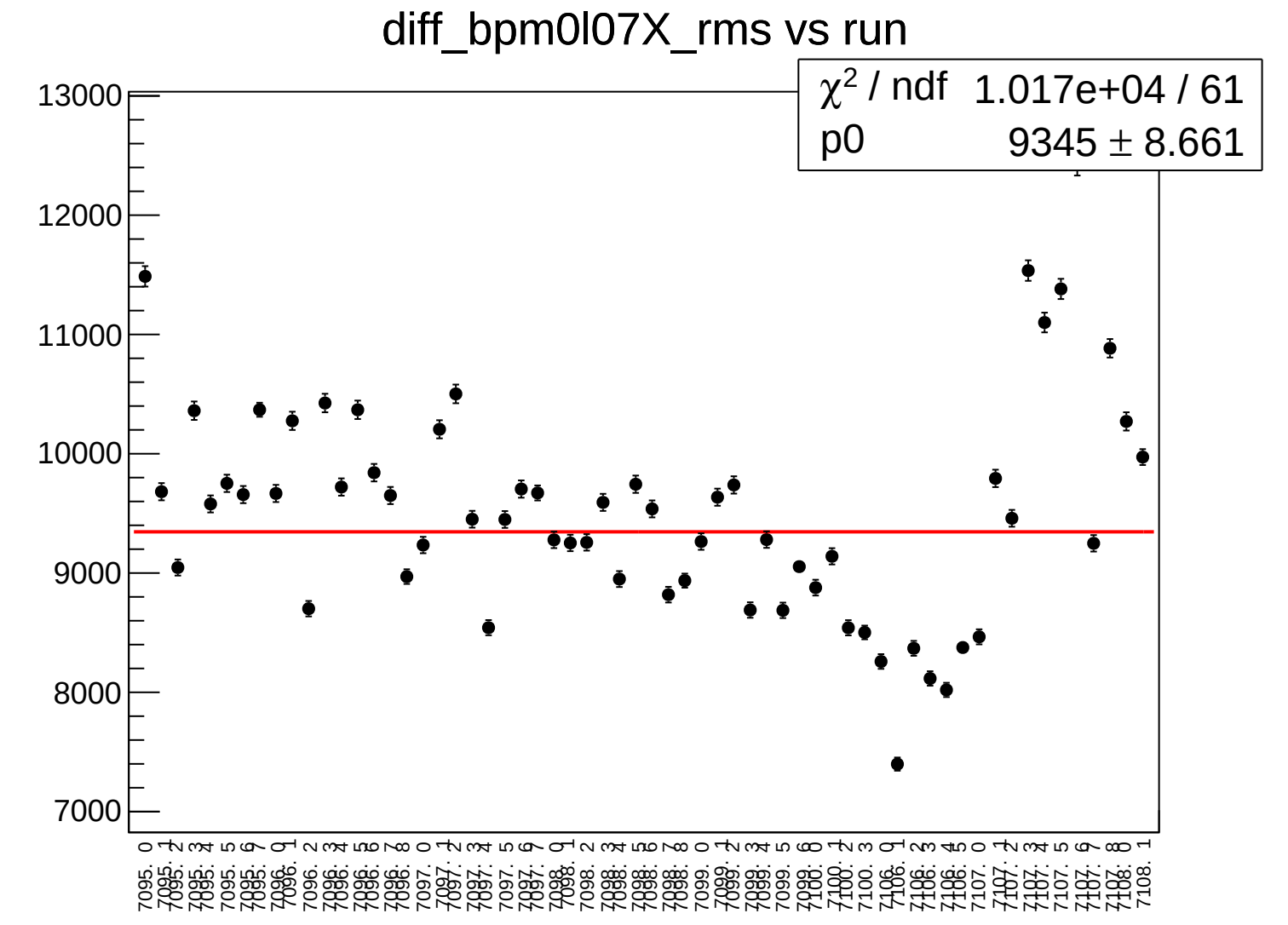

diff_bpm0l06Y_mean vs run
χ² / ndf 53.33 / 61
p0 −0.4877 ± 1.838
pull
Entries 62
Mean −43.96
Std Dev 79.9

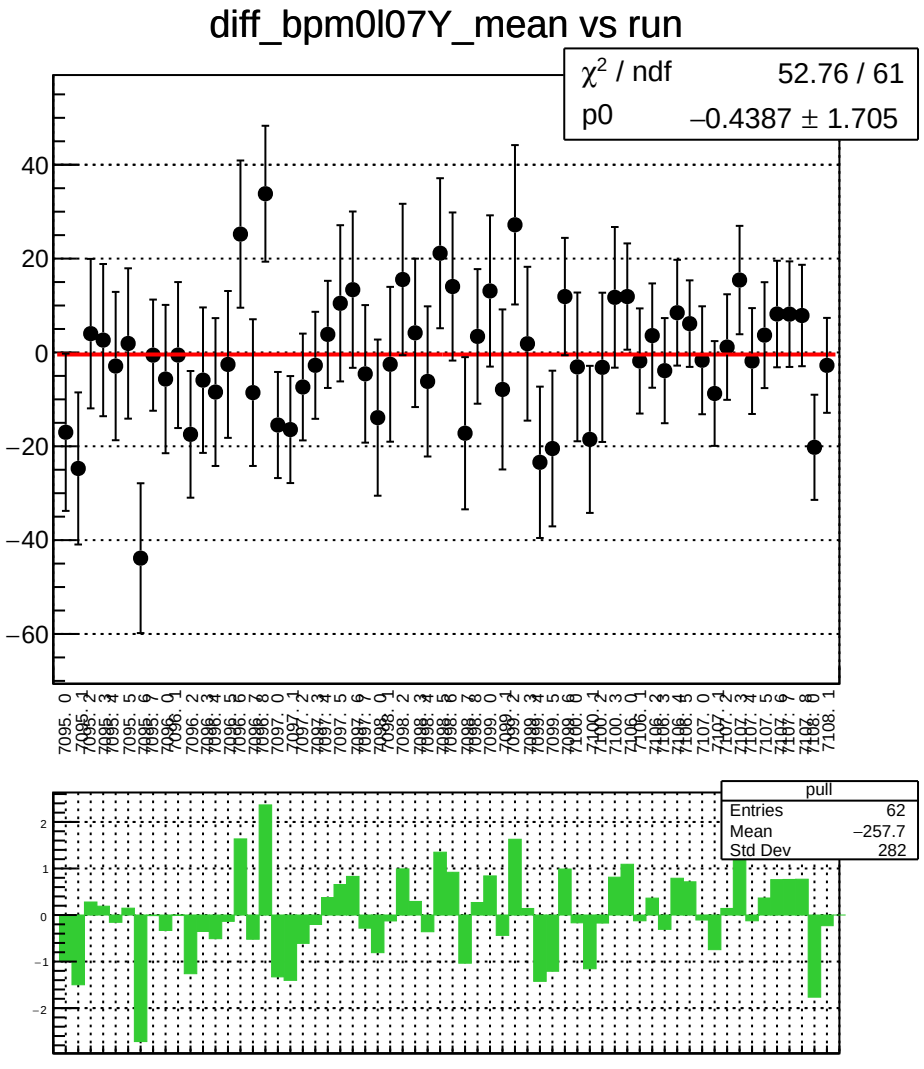

pull1D
Entries 62
Mean 0.04039
Std Dev 0.9265

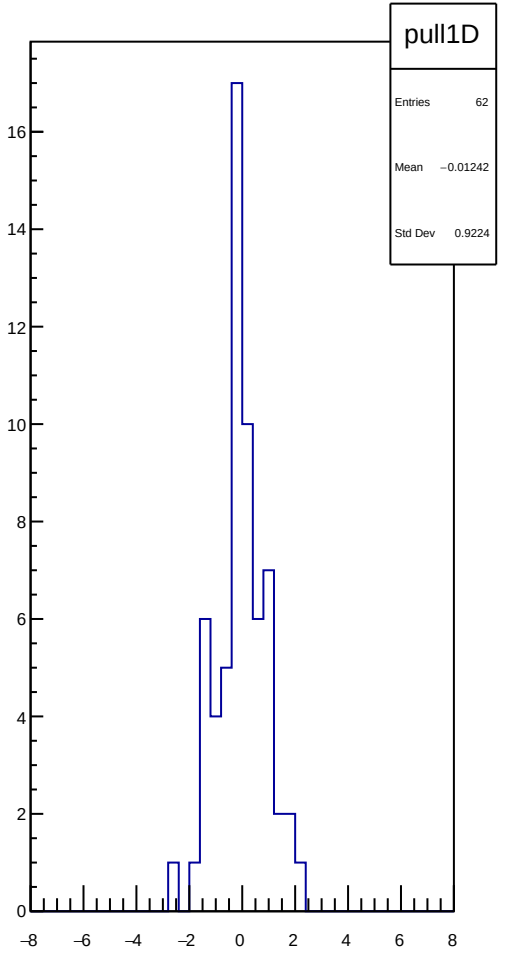

diff_bpm0l06Y_rms vs run
χ² / ndf 2.326e+04 / 61
p0 1395 ± 1.3
1700
1600
1500
1400
1300
1200

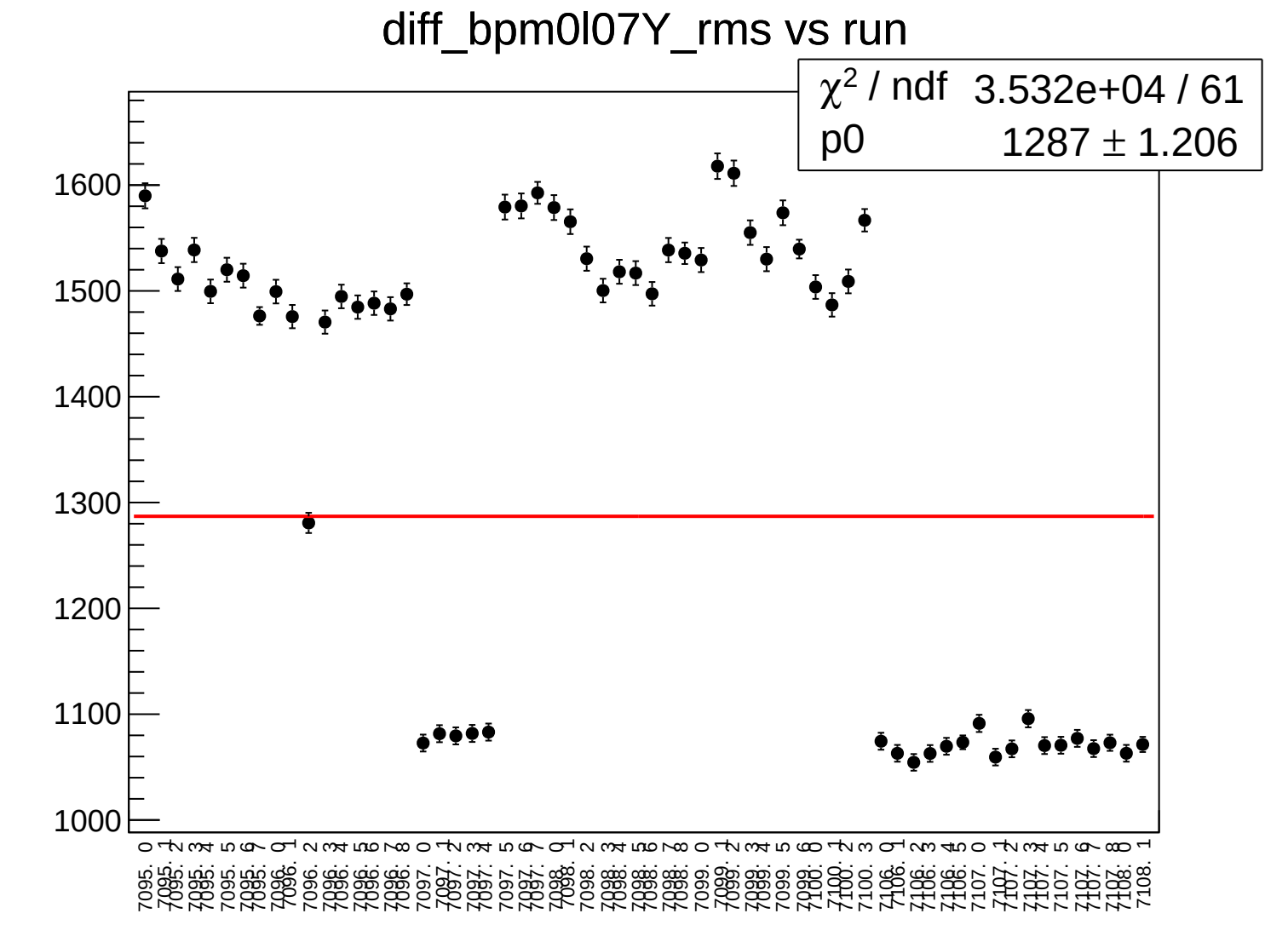

diff_bpm0l07X_mean vs run
χ² / ndf 65.66 / 61
p0 −3.786 ± 12.25
pull
Entries 62
Mean 57.56
Std Dev 52.41

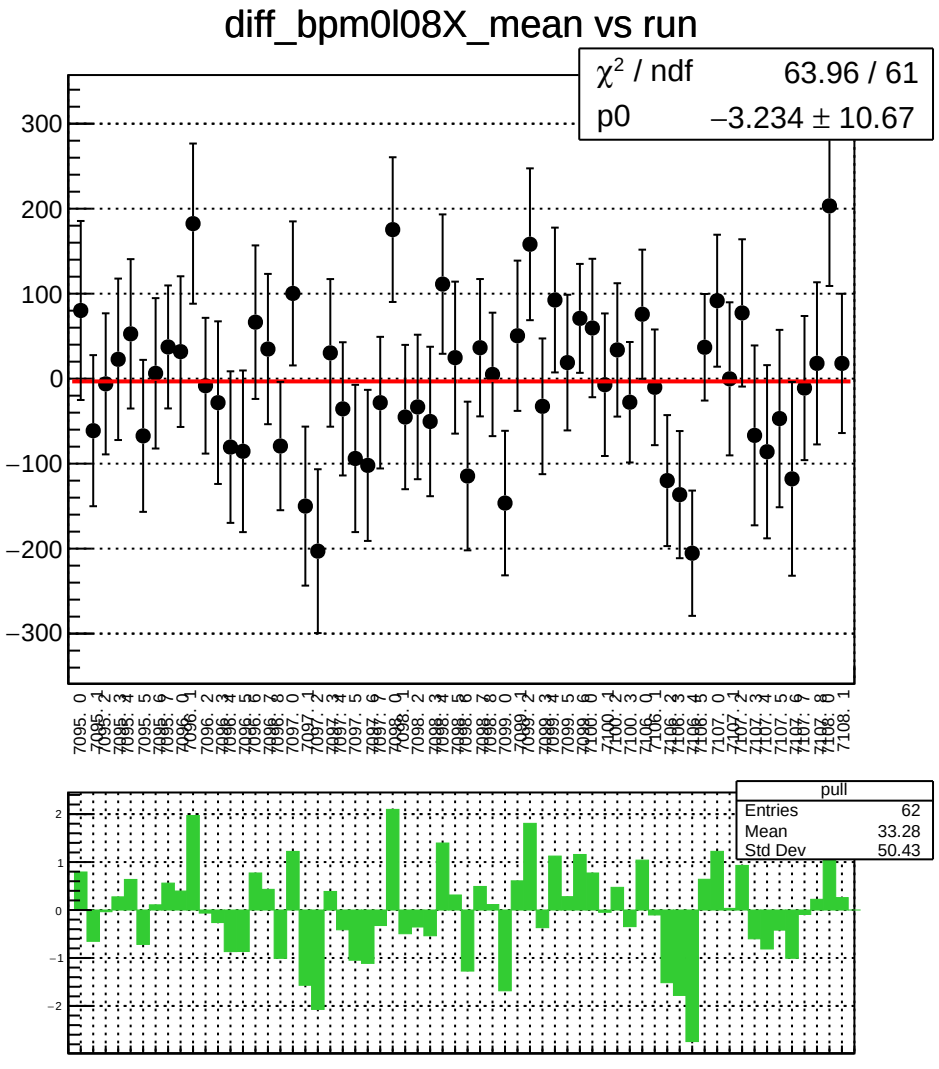

pull1D
Entries 62
Mean −0.007868
Std Dev 1.029

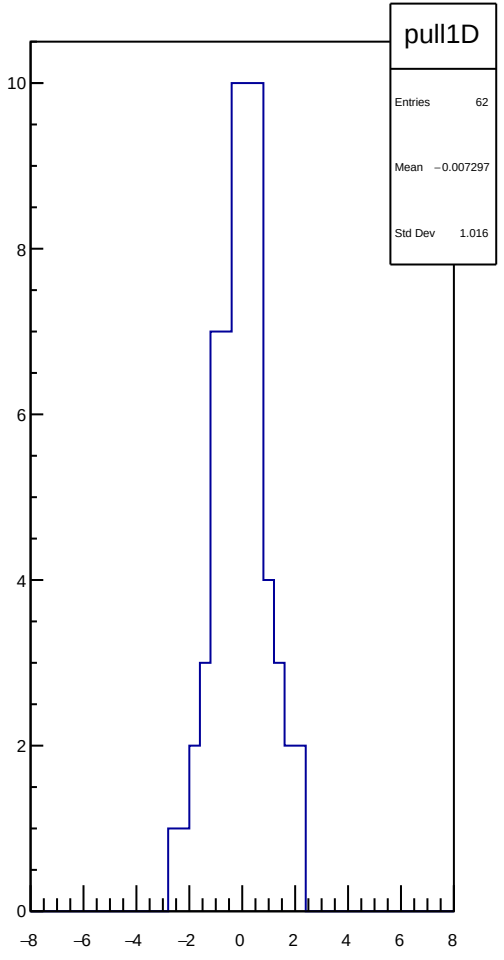

diff_bpm0l07X_rms vs run
χ² / ndf 1.017e+04 / 61
p0 9345 ± 8.661
13000
12000
11000
10000
9000
8000
7000

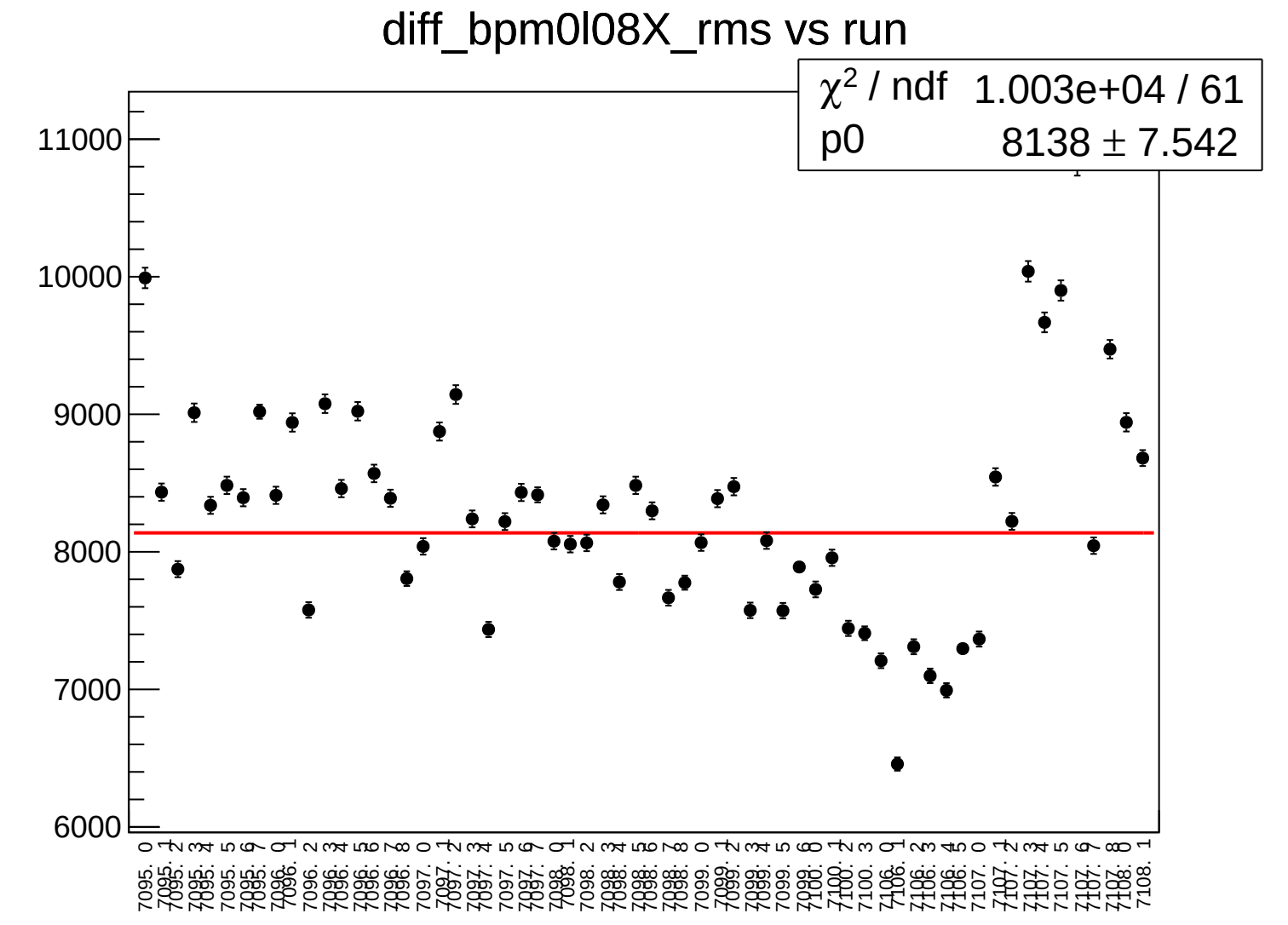

diff_bpm0l07Y_mean vs run
χ² / ndf 52.76 / 61
p0 −0.4387 ± 1.705
pull
Entries 62
Mean −257.7
Std Dev 282

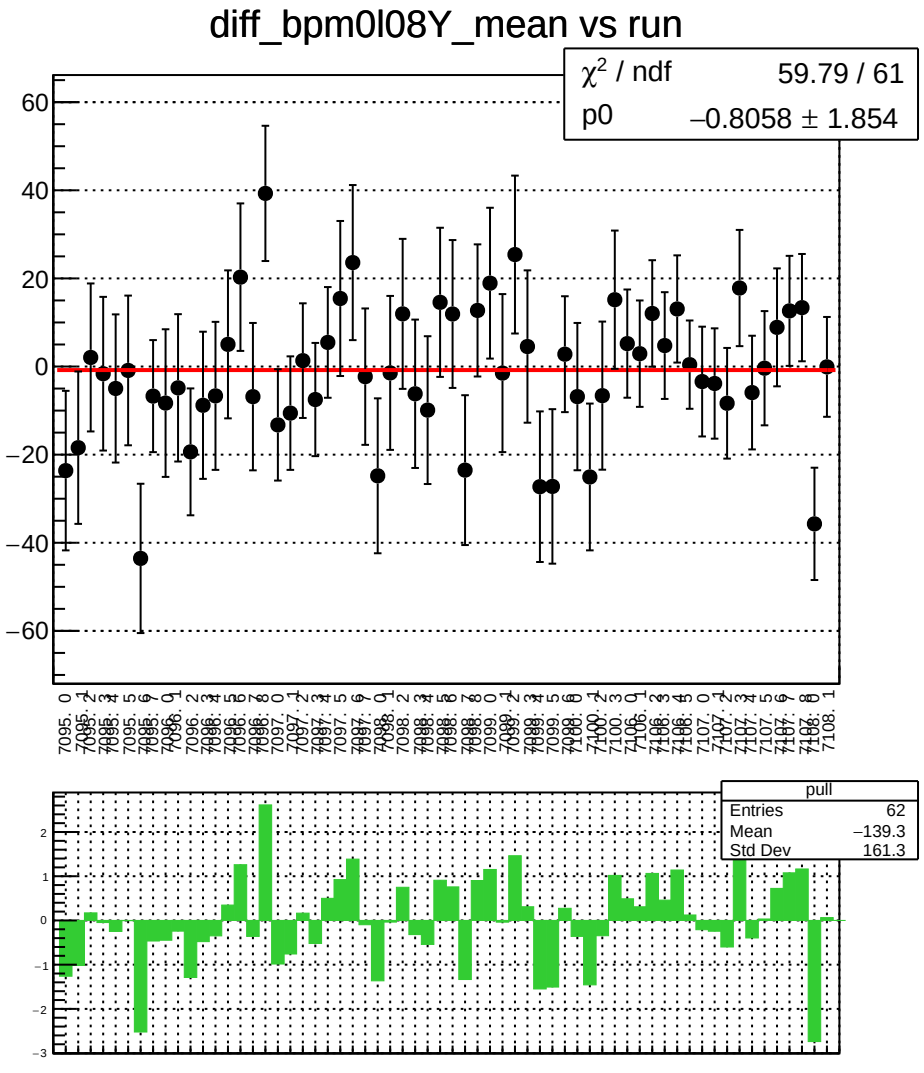

pull1D
Entries 62
Mean −0.01242
Std Dev 0.9224

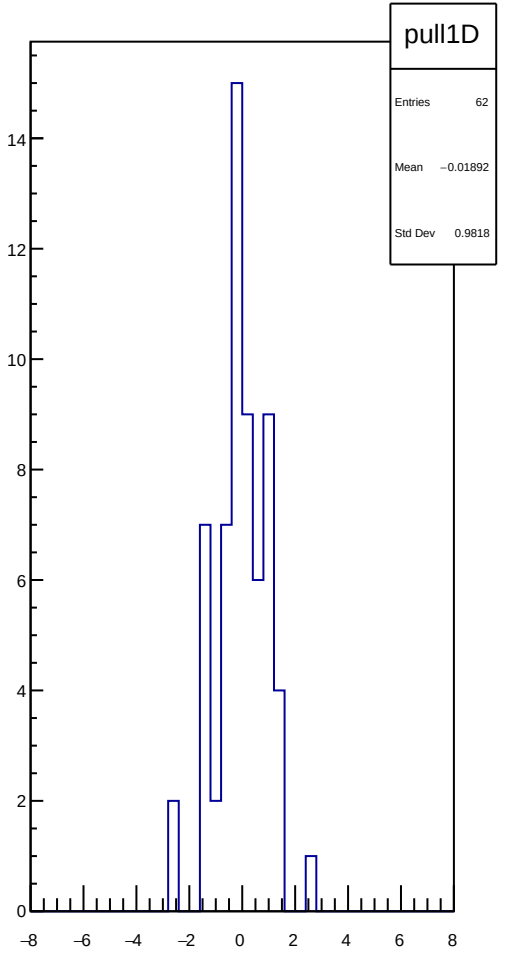

diff_bpm0l07Y_rms vs run
χ² / ndf 3.532e+04 / 61
p0 1287 ± 1.206
1600
1500
1400
1300
1200
1100
1000

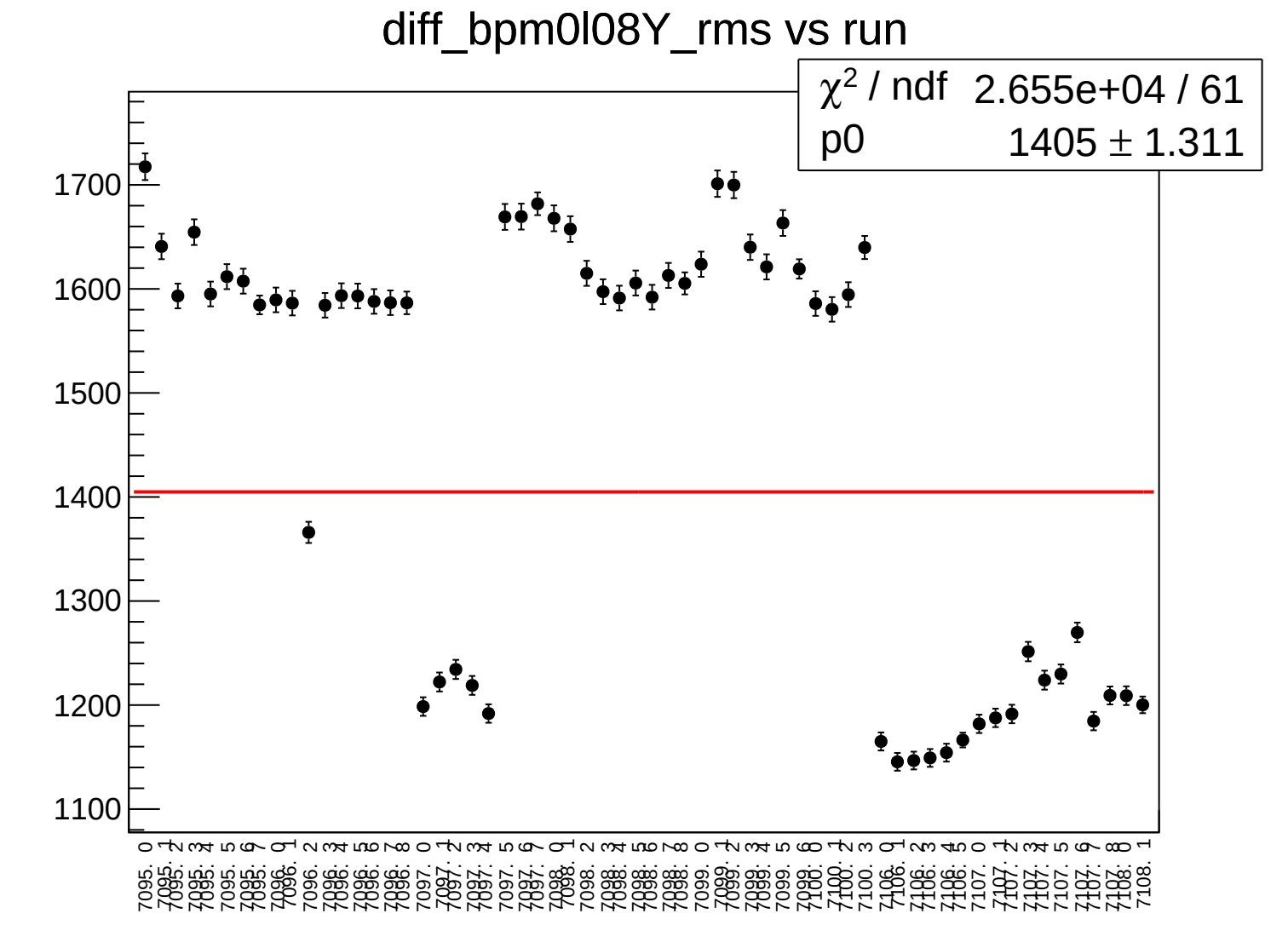

diff_bpm0l08X_mean vs run
χ² / ndf 63.96 / 61
p0 −3.234 ± 10.67
pull
Entries 62
Mean 33.28
Std Dev 50.43

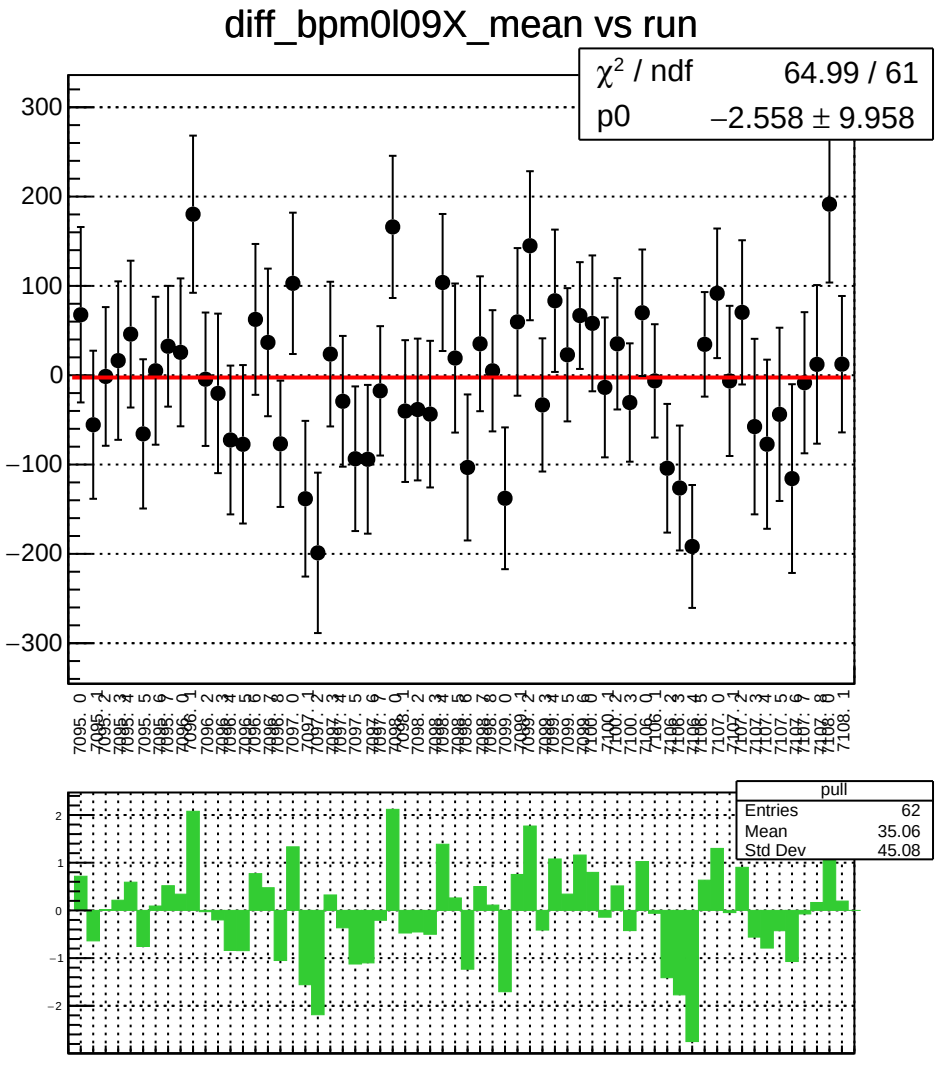

pull1D
Entries 62
Mean −0.007297
Std Dev 1.016

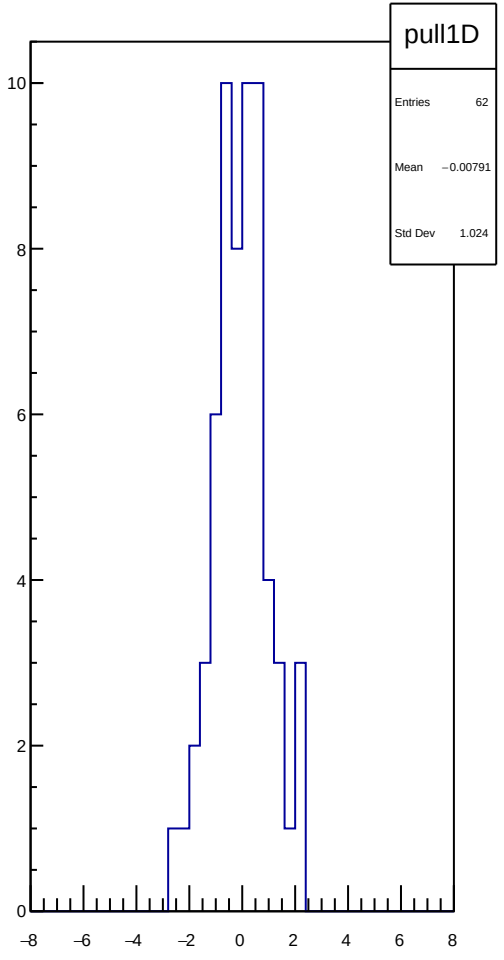

diff_bpm0l08X_rms vs run
χ² / ndf 1.003e+04 / 61
p0 8138 ± 7.542
11000
10000
9000
8000
7000
6000

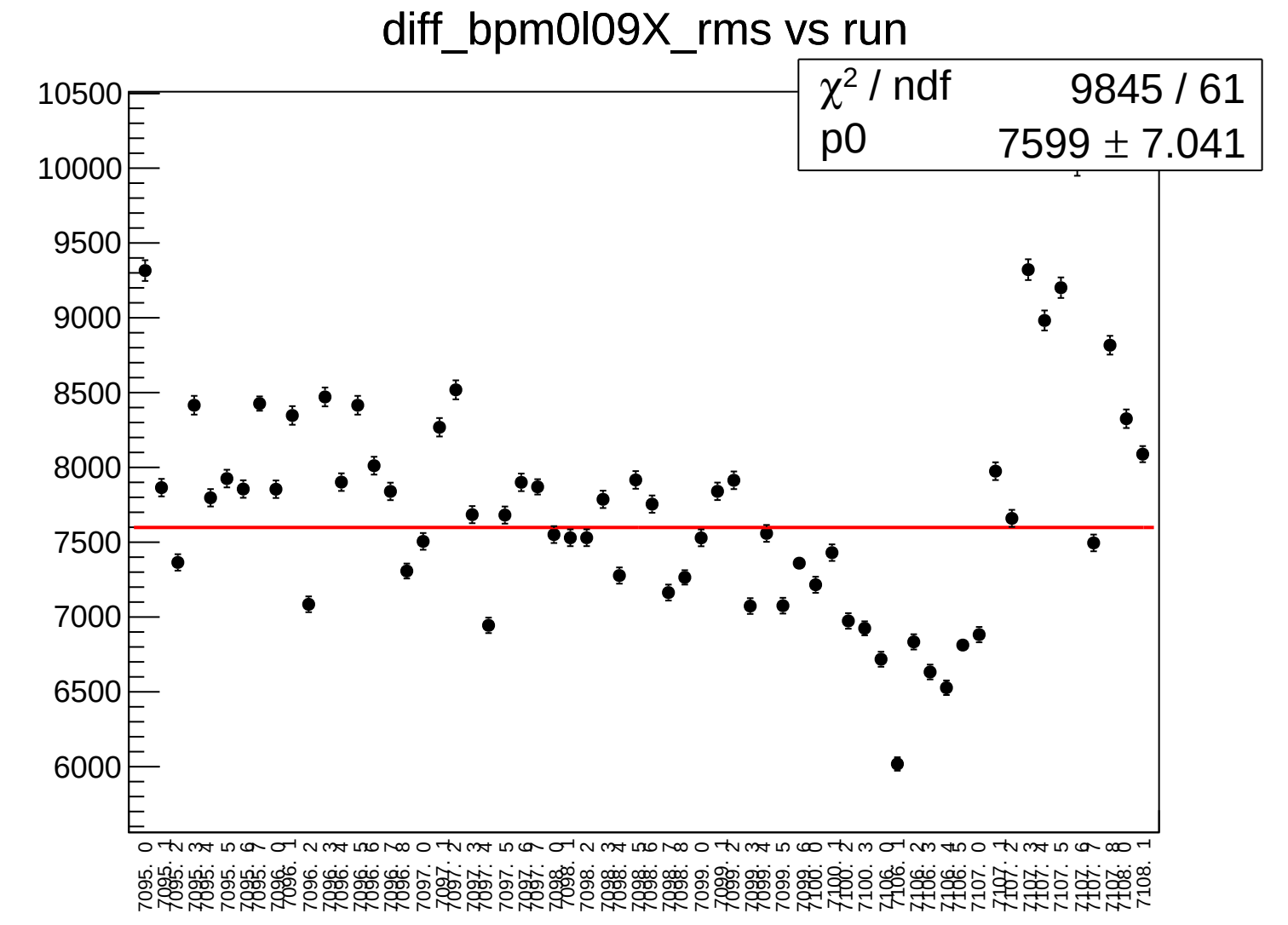

diff_bpm0l08Y_mean vs run
χ² / ndf 59.79 / 61
p0 −0.8058 ± 1.854
pull
Entries 62
Mean −139.3
Std Dev 161.3

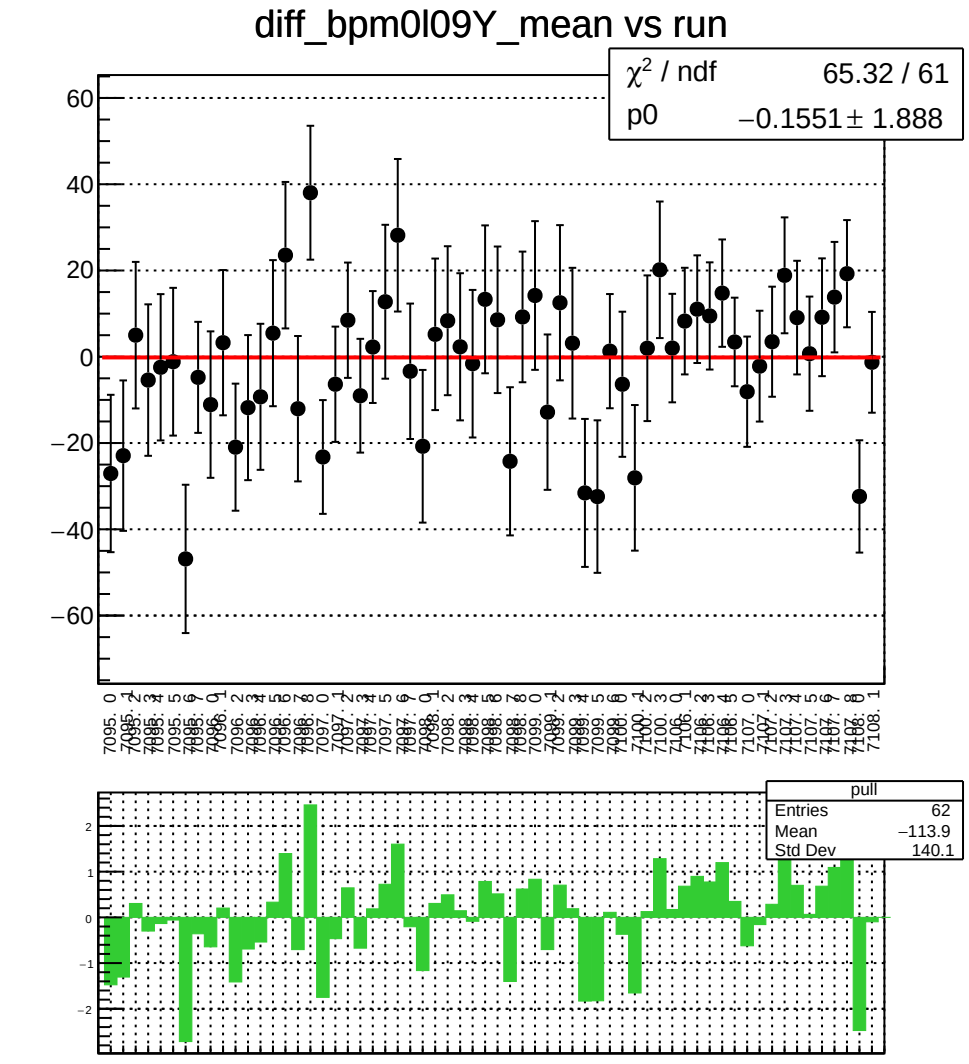

pull1D
Entries 62
Mean −0.01892
Std Dev 0.9818

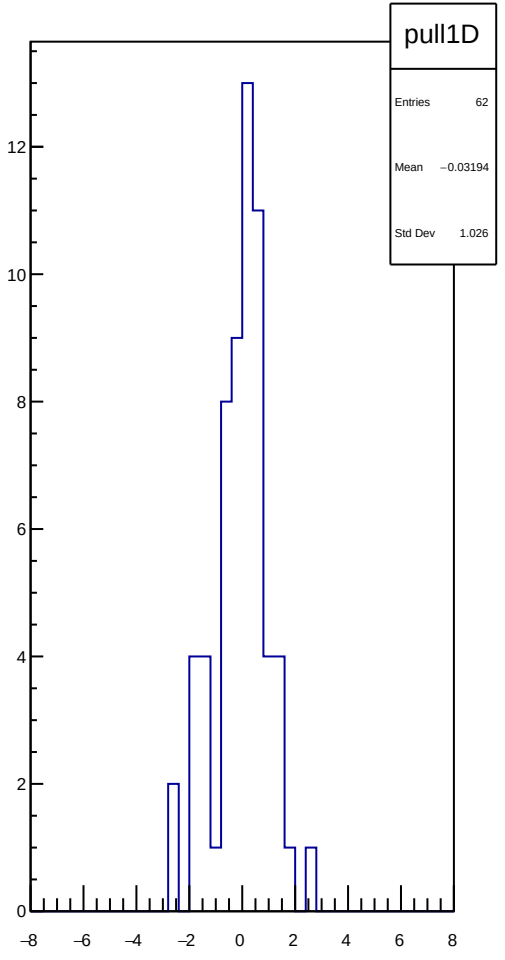

diff_bpm0l08Y_rms vs run
χ² / ndf 2.655e+04 / 61
p0 1405 ± 1.311
1700
1600
1500
1400
1300
1200
1100

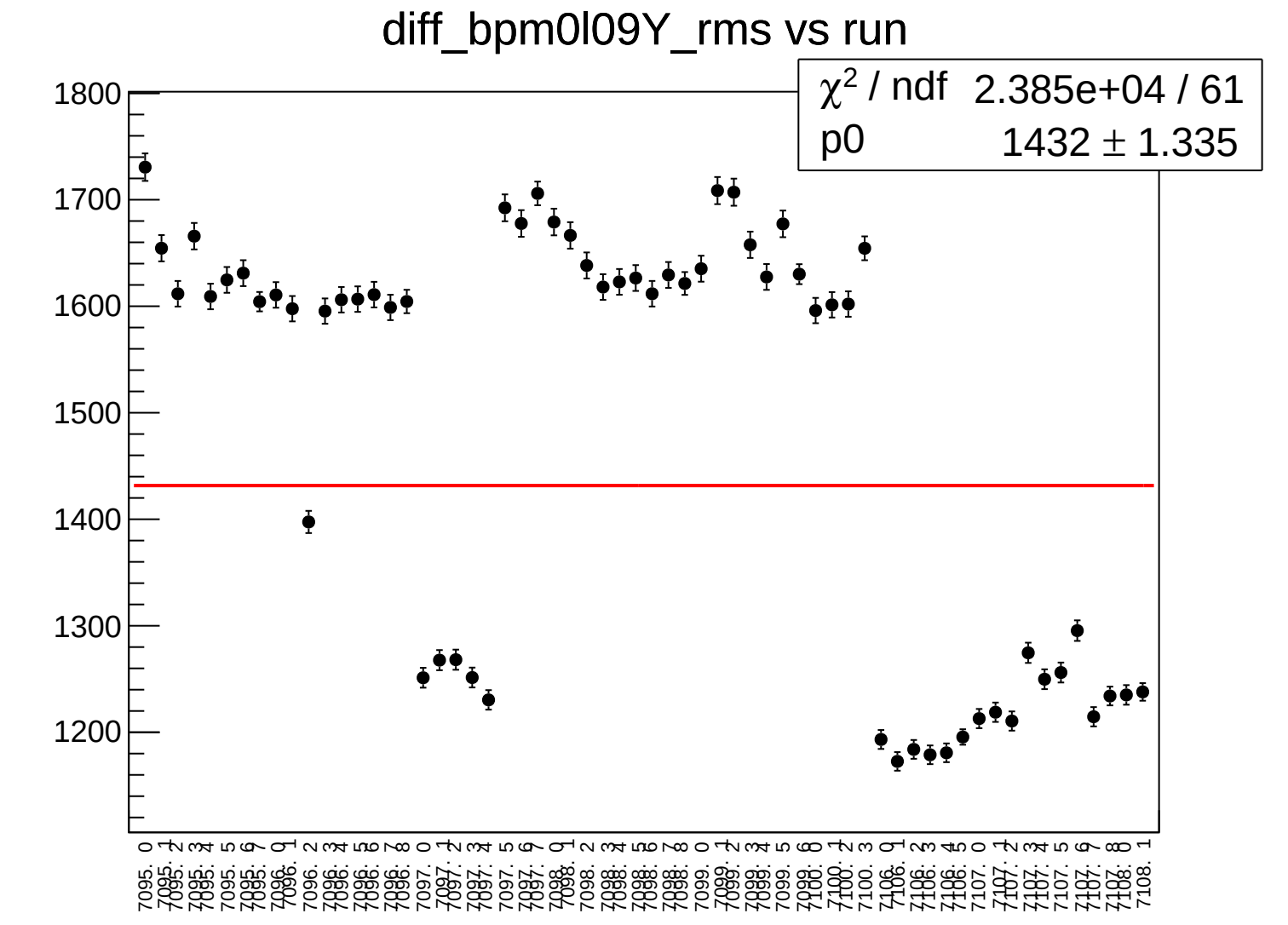

diff_bpm0l09X_mean vs run
χ² / ndf 64.99 / 61
p0 −2.558 ± 9.958
pull
Entries 62
Mean 35.06
Std Dev 45.08

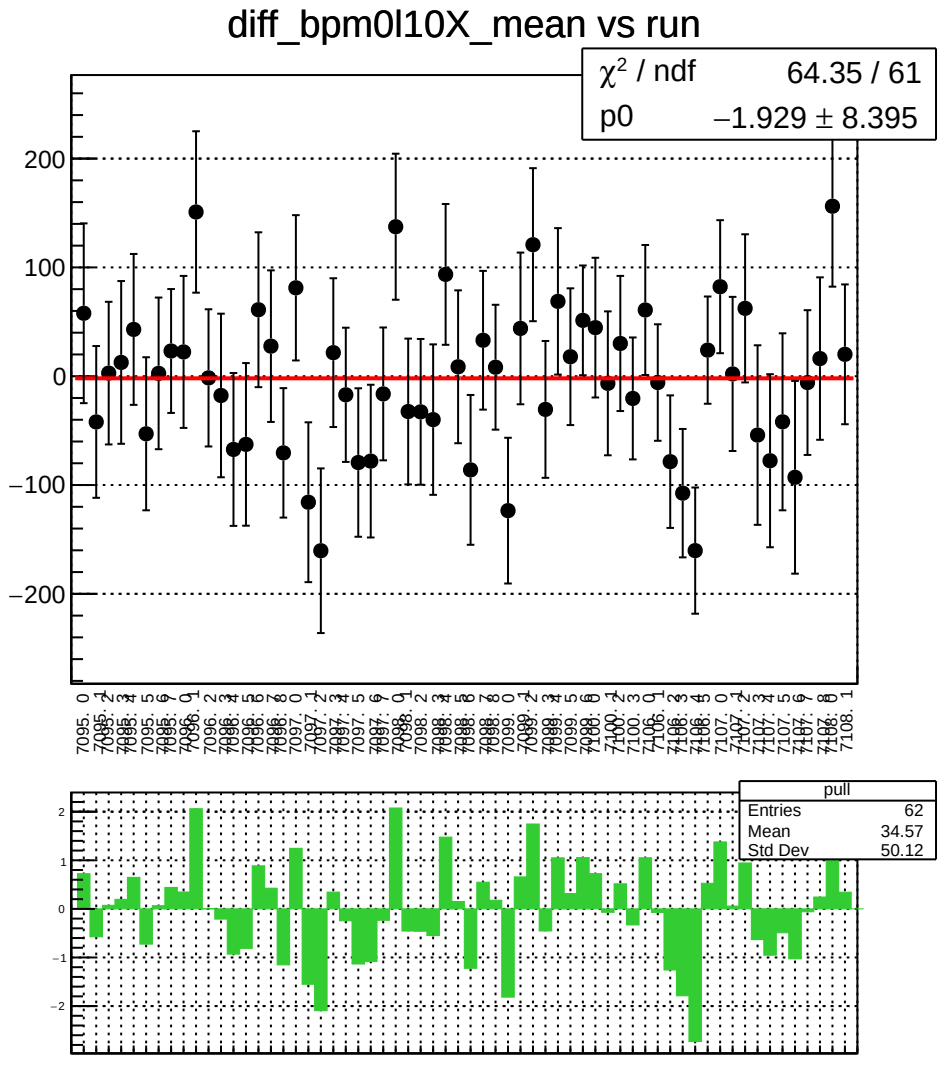

pull1D
Entries 62
Mean −0.00791
Std Dev 1.024

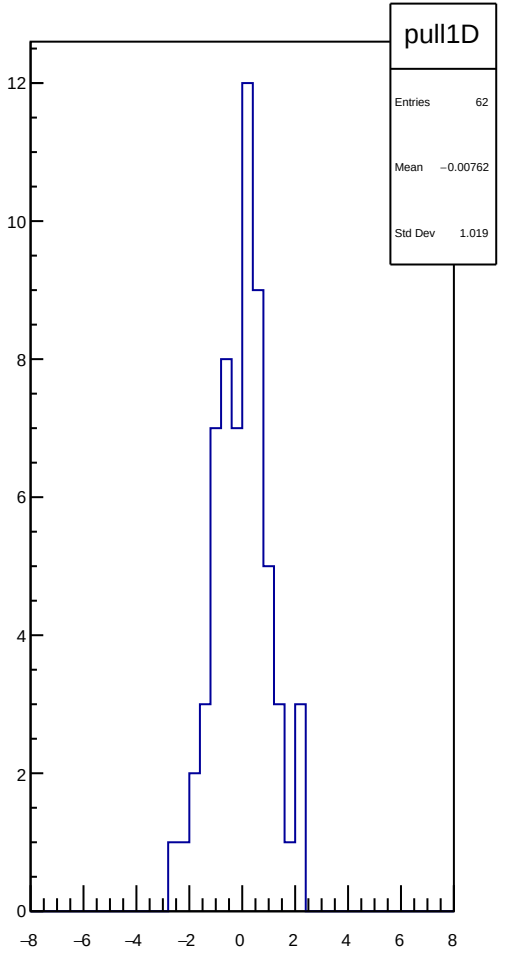

diff_bpm0l09X_rms vs run
χ² / ndf 9845 / 61
p0 7599 ± 7.041
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

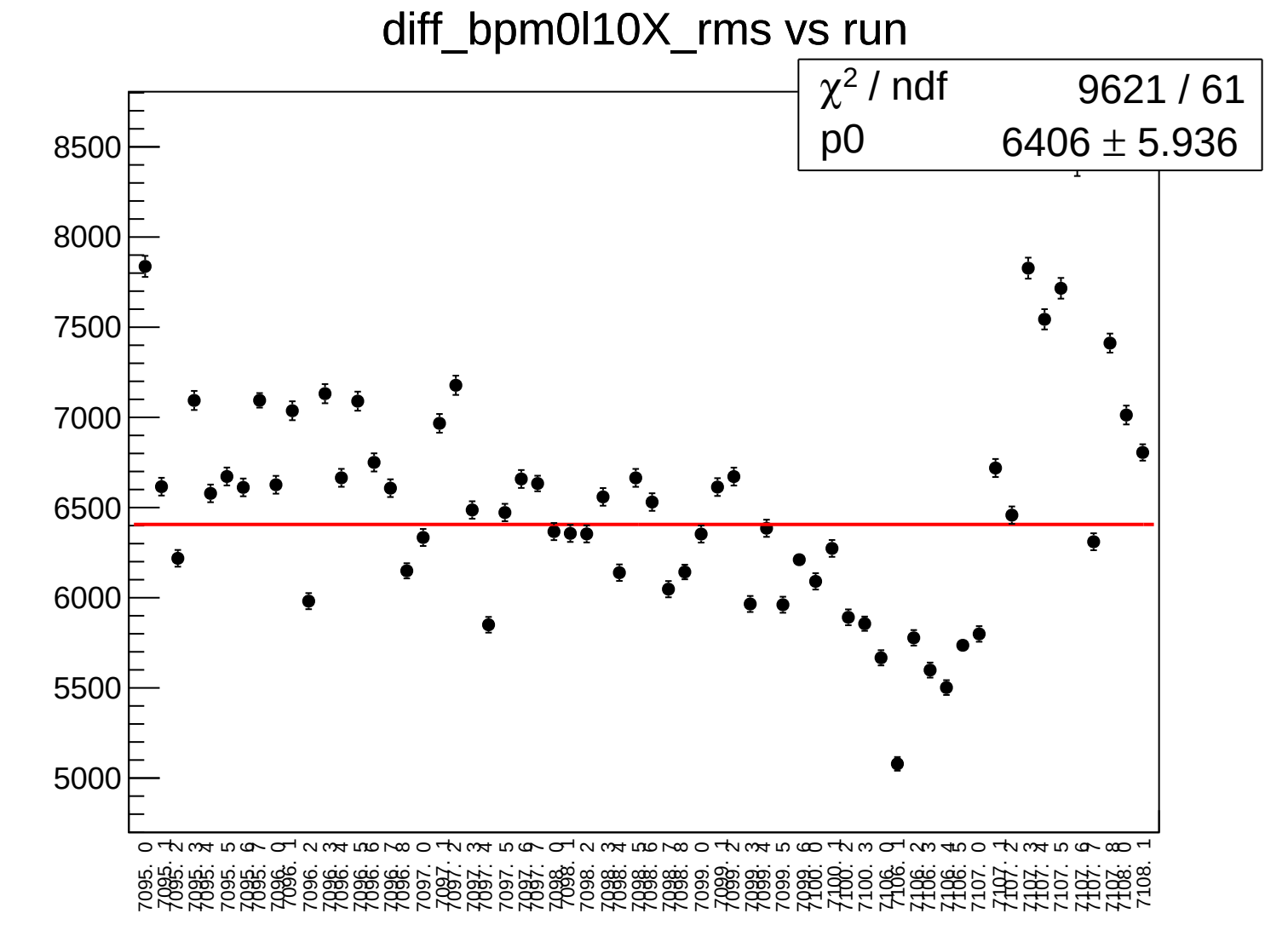

diff_bpm0l09Y_mean vs run
χ² / ndf 65.32 / 61
p0 −0.1551 ± 1.888
pull
Entries 62
Mean −113.9
Std Dev 140.1

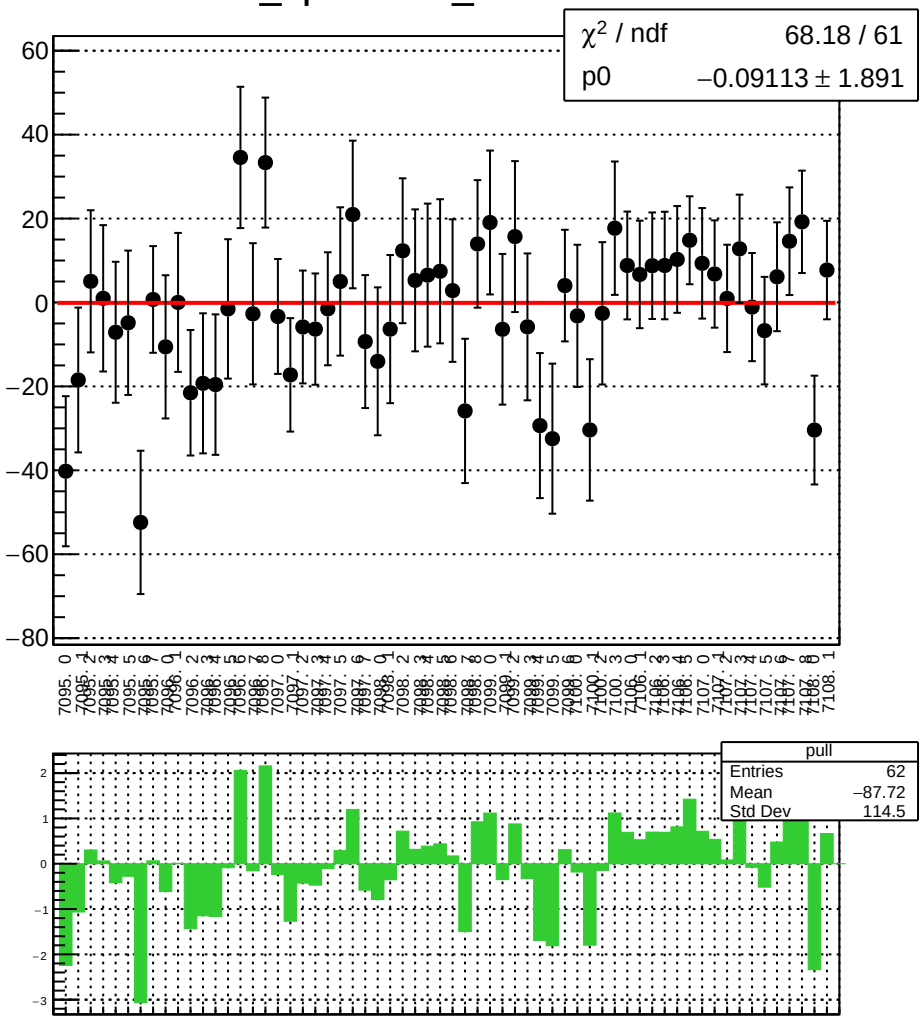

pull1D
Entries 62
Mean −0.03194
Std Dev 1.026

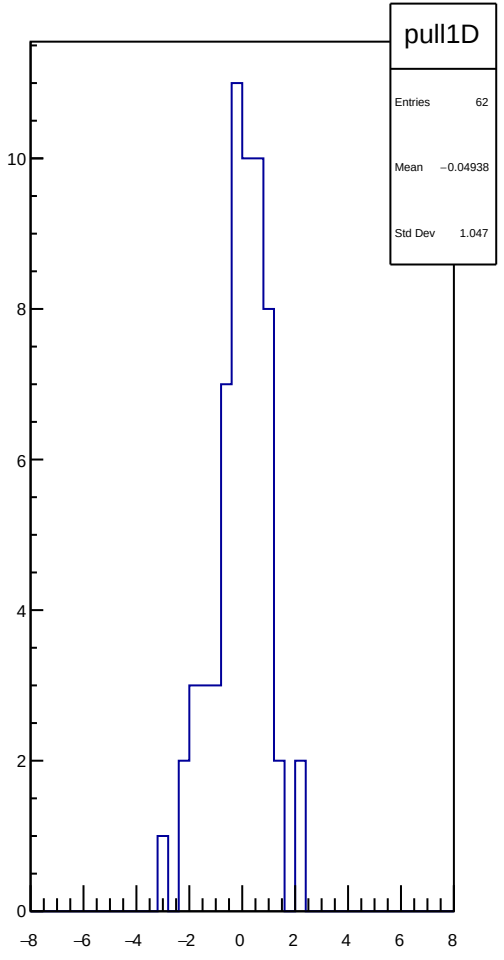

diff_bpm0l09Y_rms vs run
χ² / ndf 2.385e+04 / 61
p0 1432 ± 1.335
1800
1700
1600
1500
1400
1300
1200

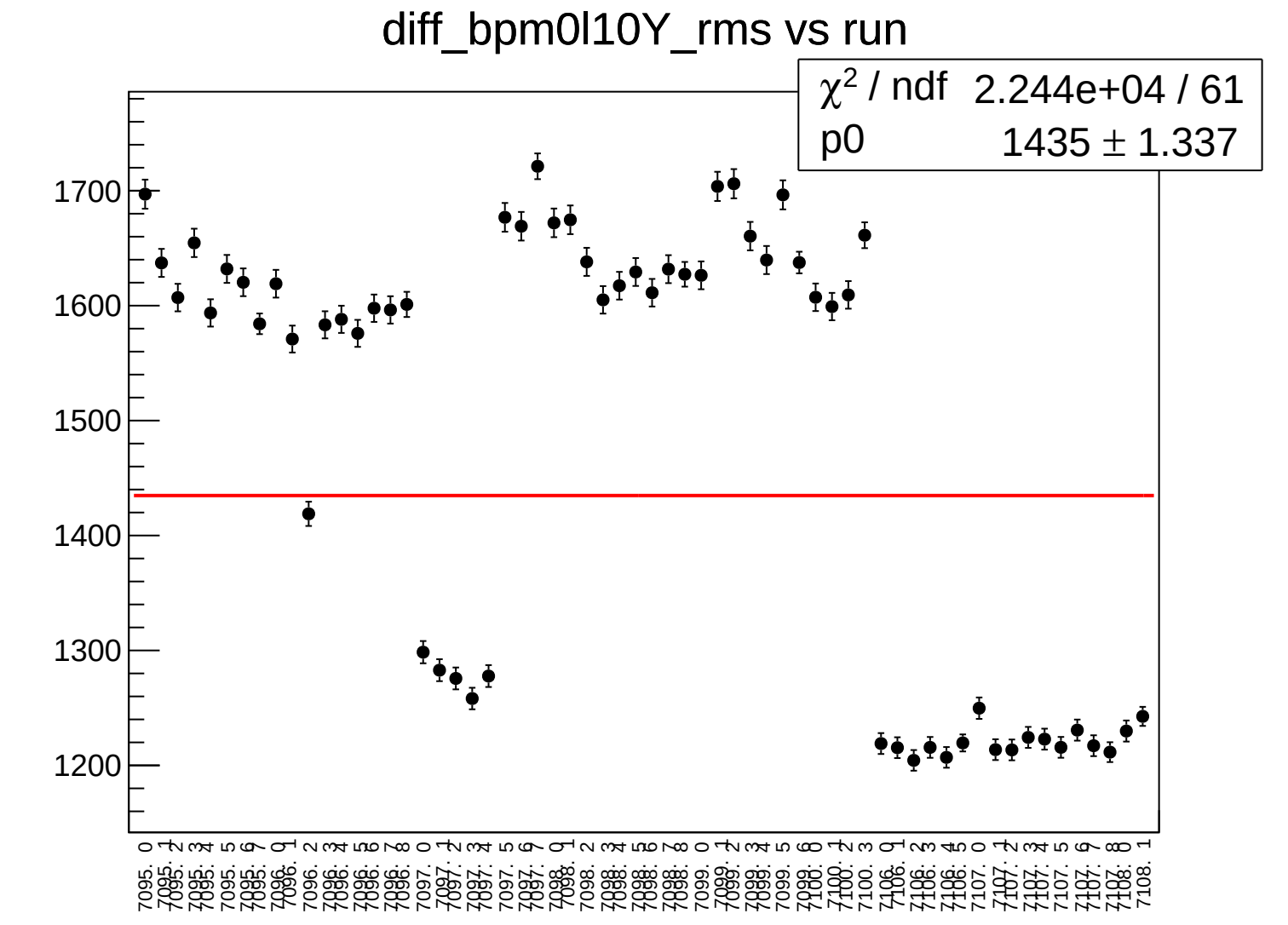

diff_bpm0l10X_mean vs run
χ² / ndf 64.35 / 61
p0 −1.929 ± 8.395
200
100
0
−100
−200
pull
Entries 62
Mean 34.57
Std Dev 50.12
2
1
0
−1
−2

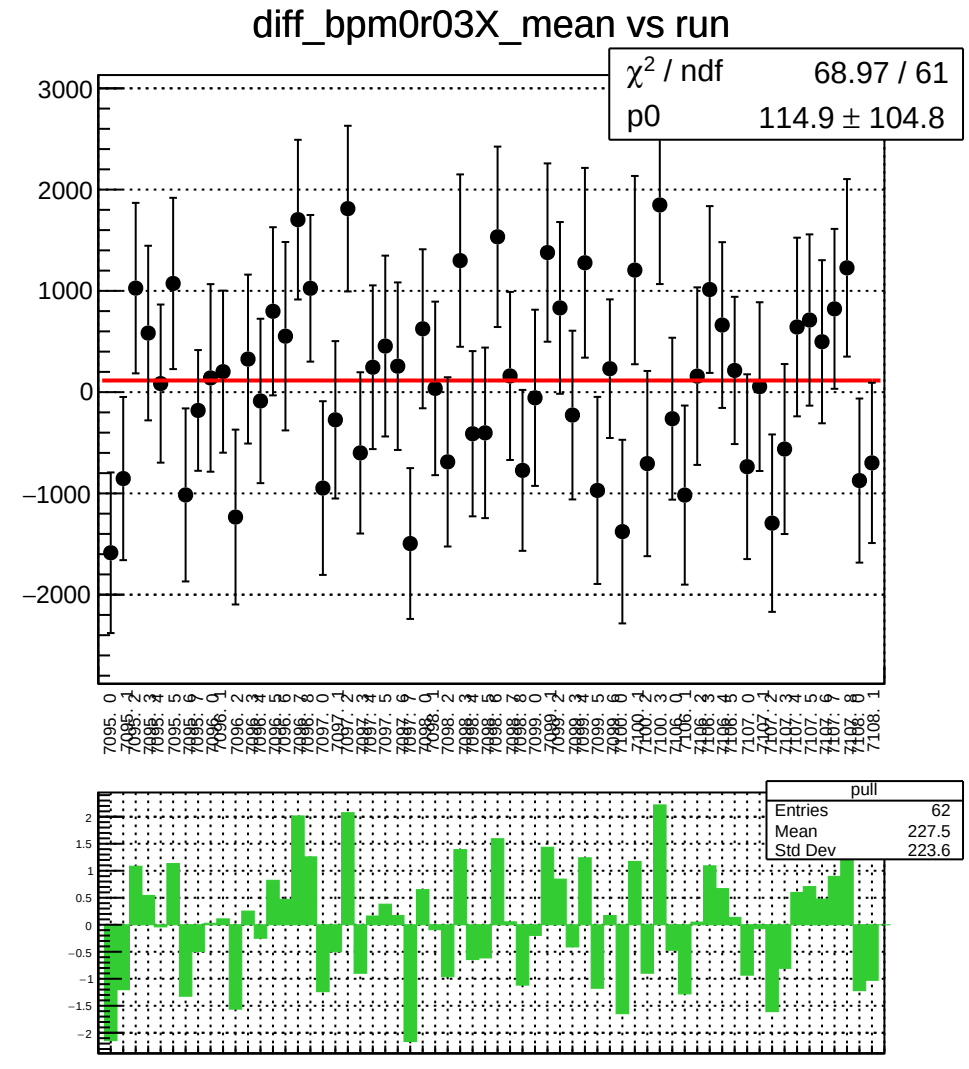

pull1D
Entries 62
Mean −0.00762
Std Dev 1.019
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

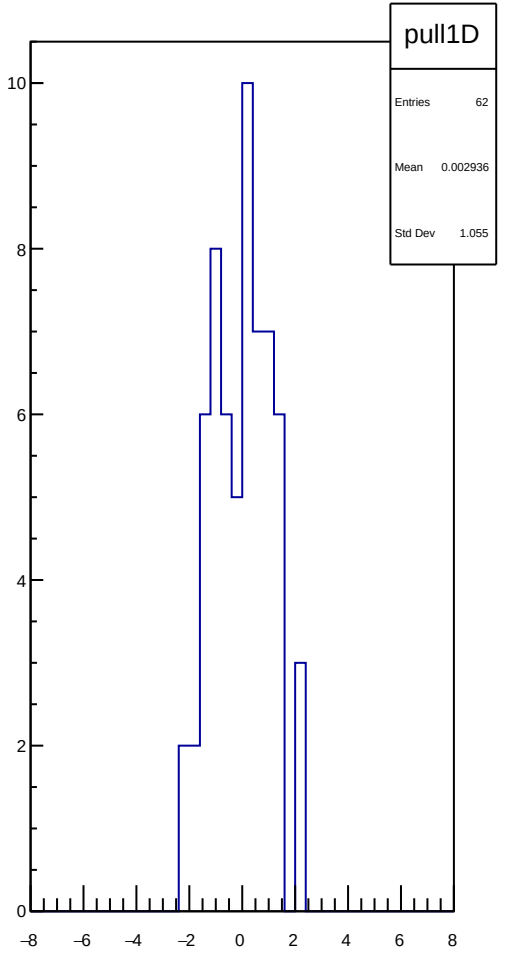

diff_bpm0l10X_rms vs run
χ² / ndf 9621 / 61
p0 6406 ± 5.936
8500
8000
7500
7000
6500
6000
5500
5000

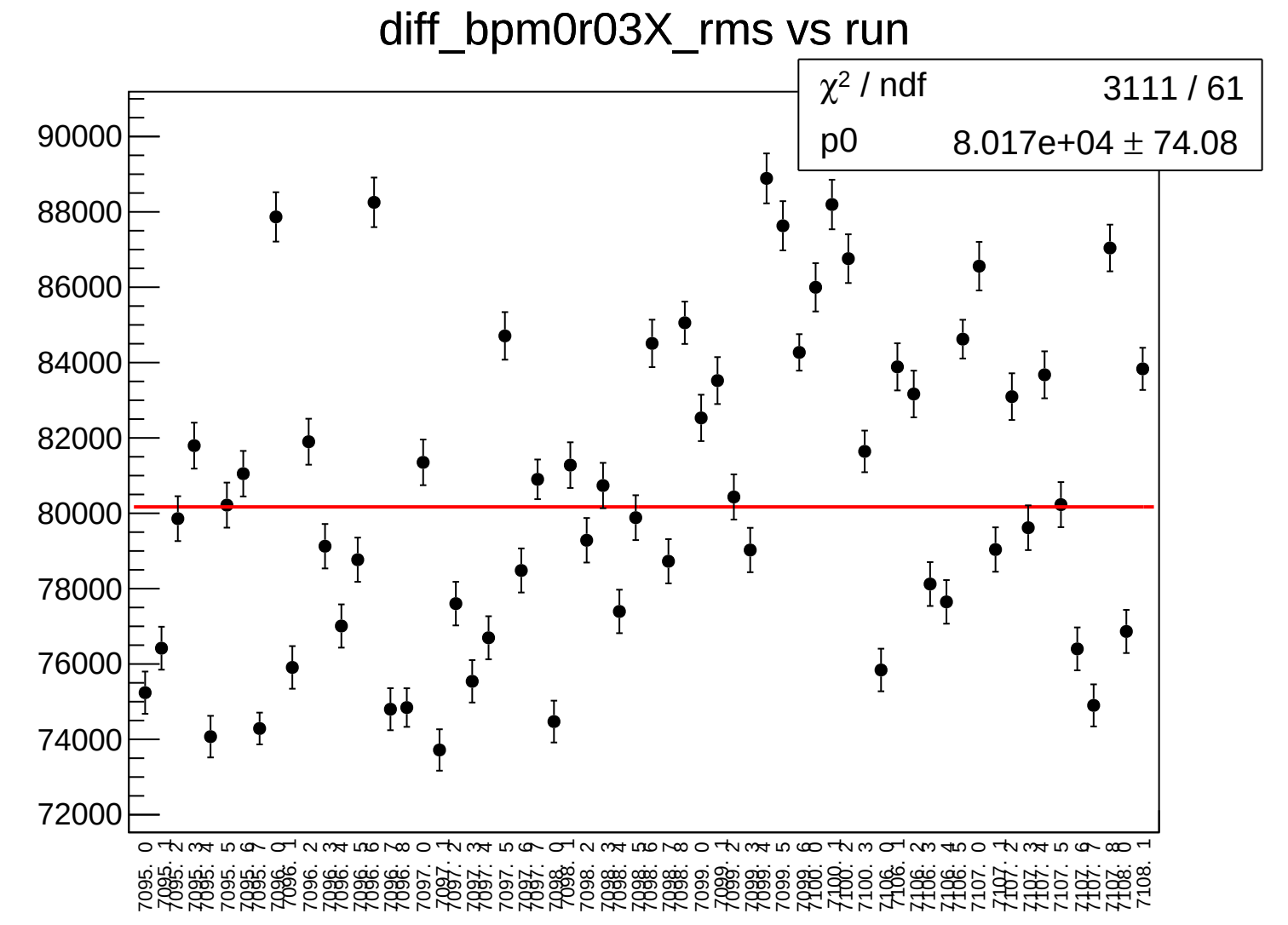

diff_bpm0l10Y_mean vs run
χ² / ndf 68.18 / 61
p0 −0.09113 ± 1.891
pull
Entries 62
Mean −87.72
Std Dev 114.5

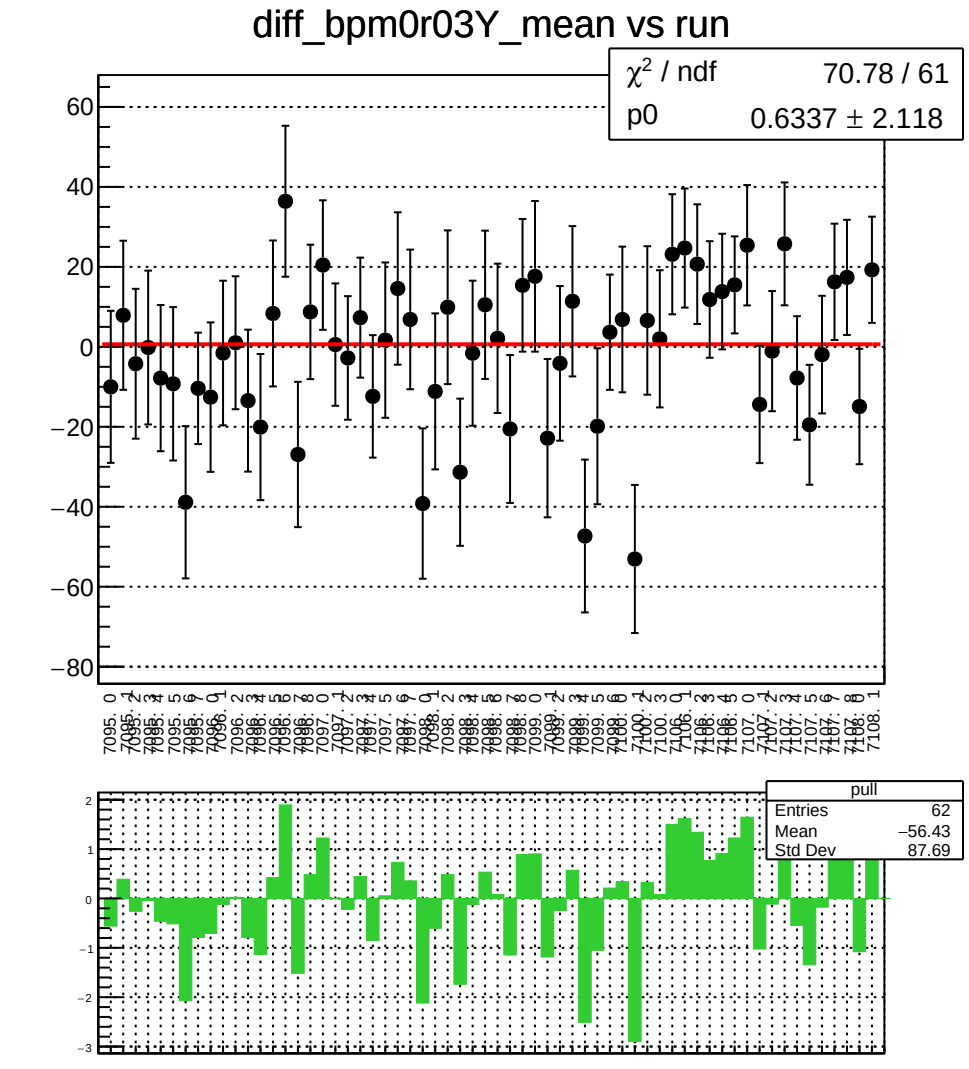

pull1D
Entries 62
Mean −0.04938
Std Dev 1.047

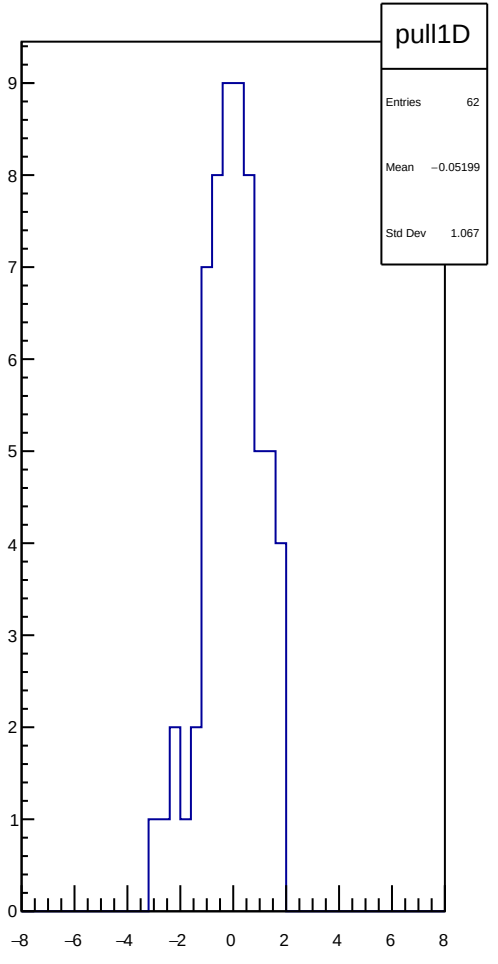

diff_bpm0l10Y_rms vs run
χ² / ndf 2.244e+04 / 61
p0 1435 ± 1.337
1700
1600
1500
1400
1300
1200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

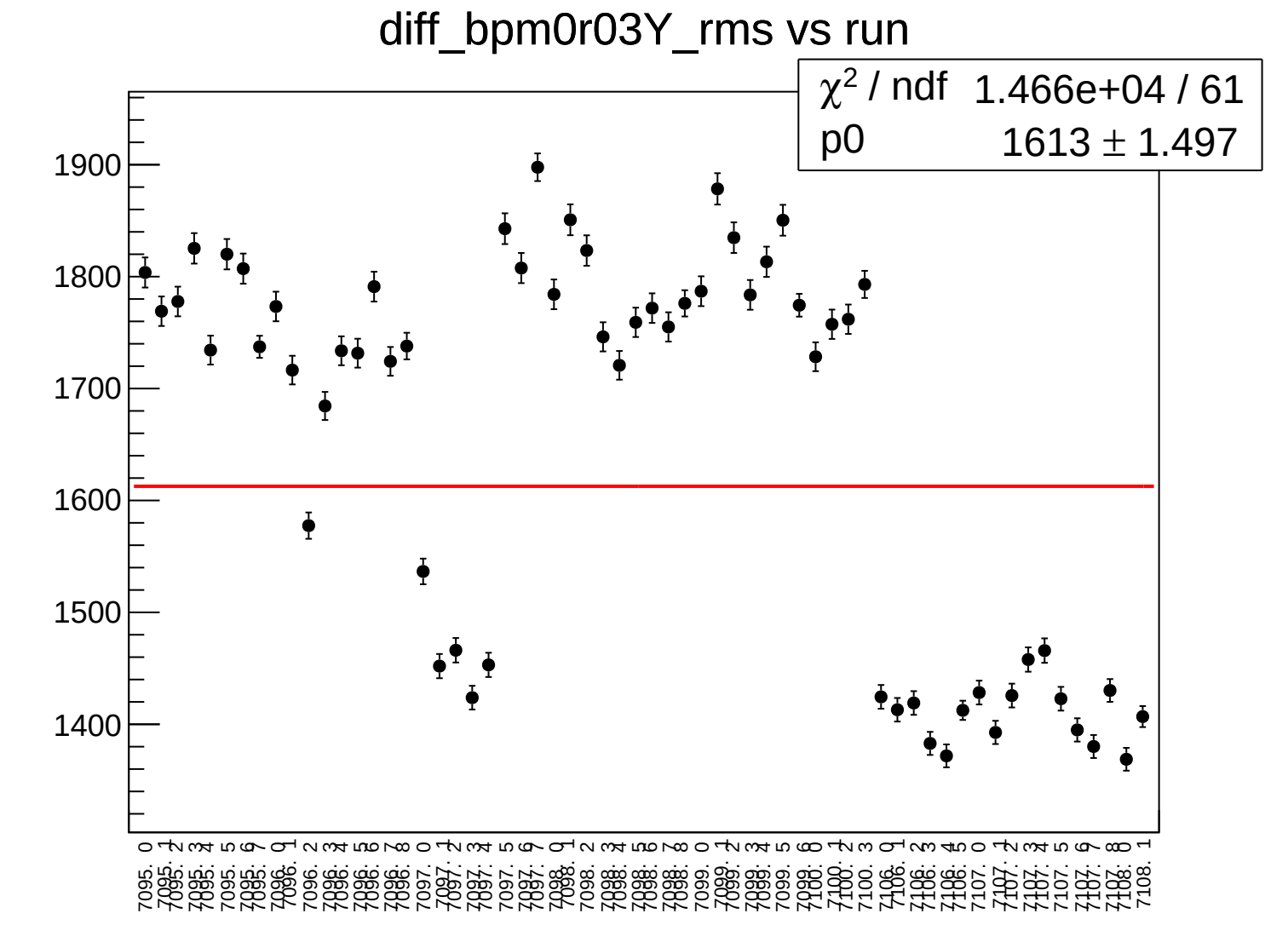

diff_bpm0r03X_mean vs run
χ^2 / ndf 68.97 / 61
p0 114.9 ± 104.8
3000
2000
1000
0
−1000
−2000
pull
Entries 62
Mean 227.5
Std Dev 223.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

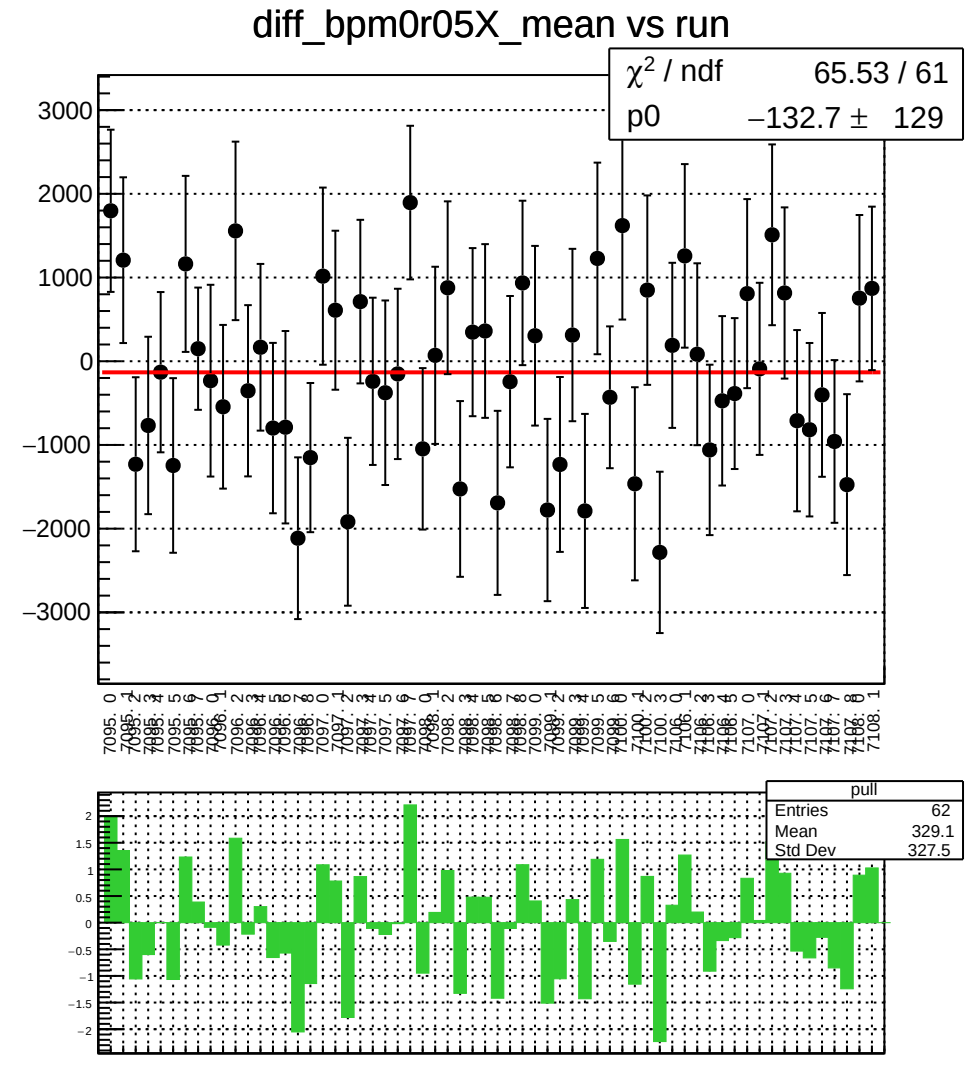

pull1D
Entries 62
Mean 0.002936
Std Dev 1.055
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

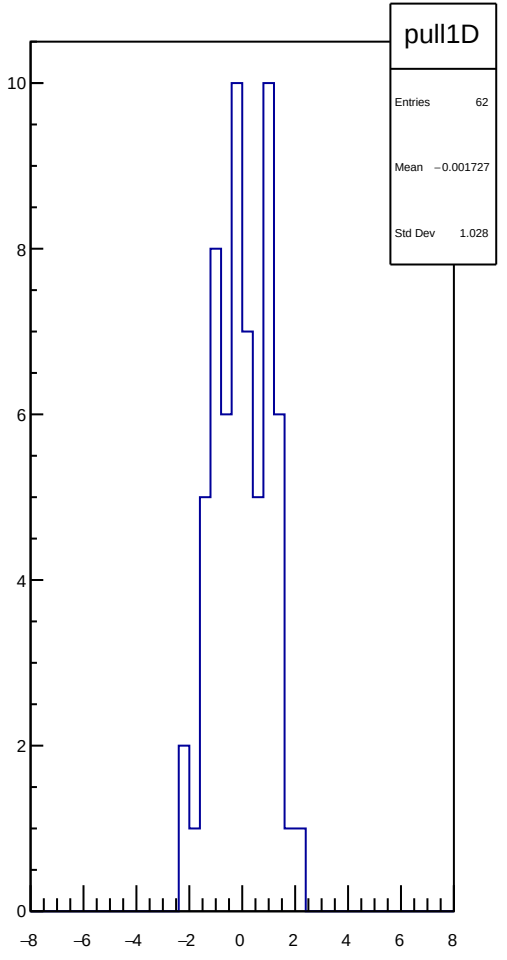

diff_bpm0r03X_rms vs run
χ² / ndf 3111 / 61
p0 8.017e+04 ± 74.08
90000
88000
86000
84000
82000
80000
78000
76000
74000
72000

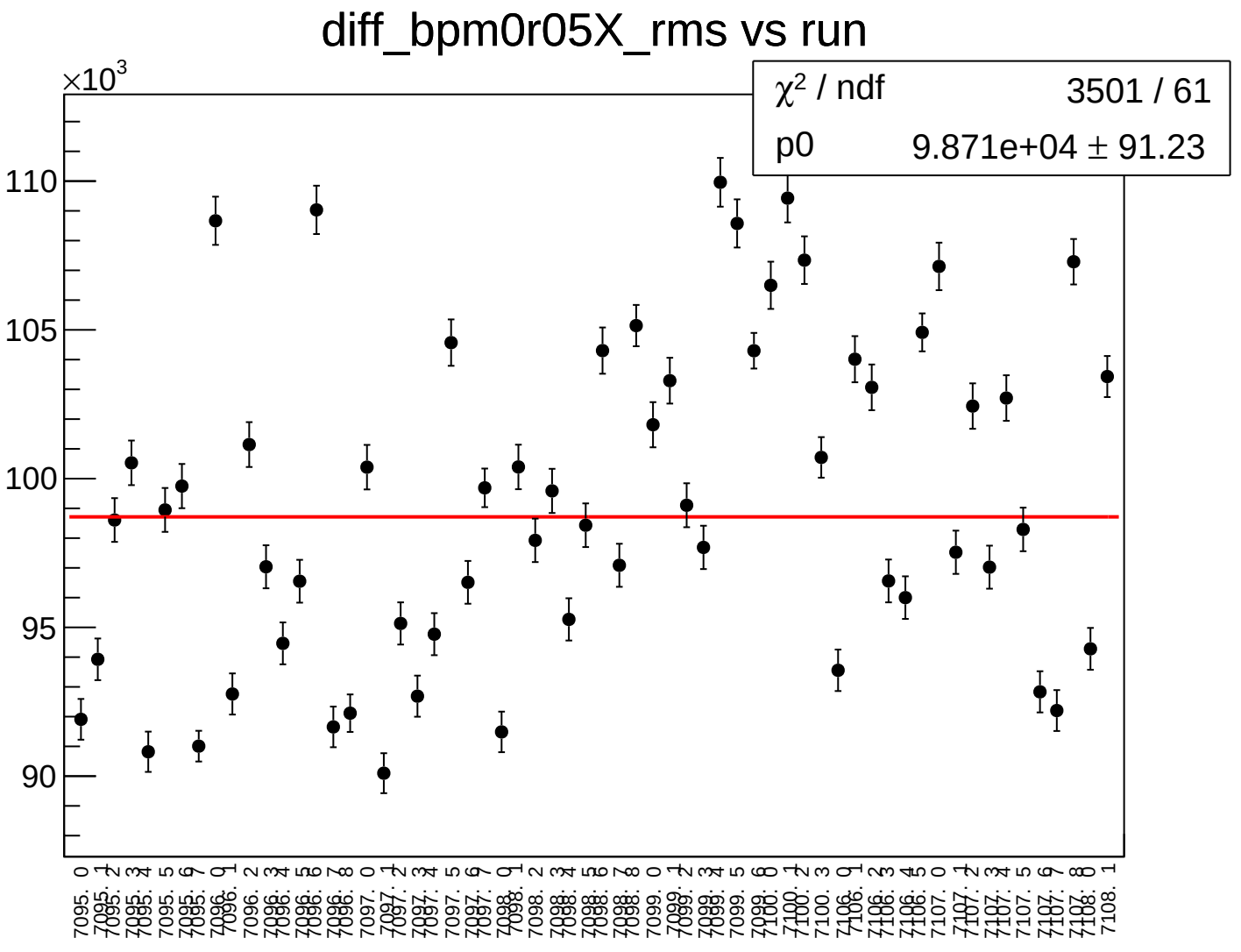

diff_bpm0r03Y_mean vs run
χ² / ndf 70.78 / 61
p0 0.6337 ± 2.118
pull
Entries 62
Mean −56.43
Std Dev 87.69

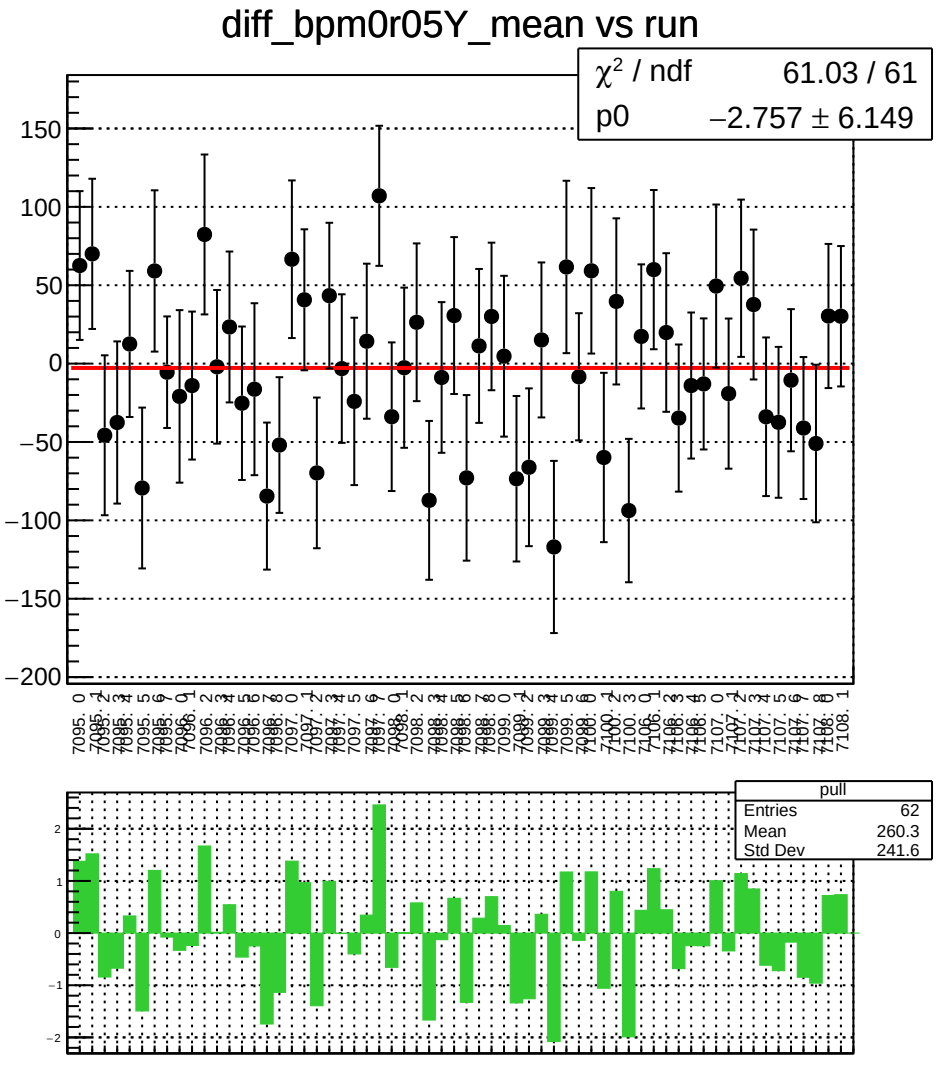

pull1D
Entries 62
Mean −0.05199
Std Dev 1.067

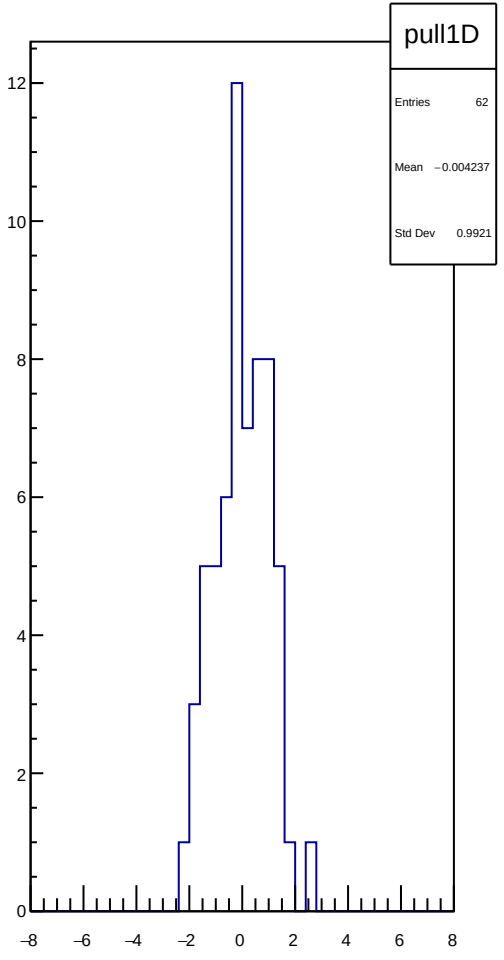

diff_bpm0r03Y_rms vs run
χ² / ndf 1.466e+04 / 61
p0 1613 ± 1.497
1900
1800
1700
1600
1500
1400

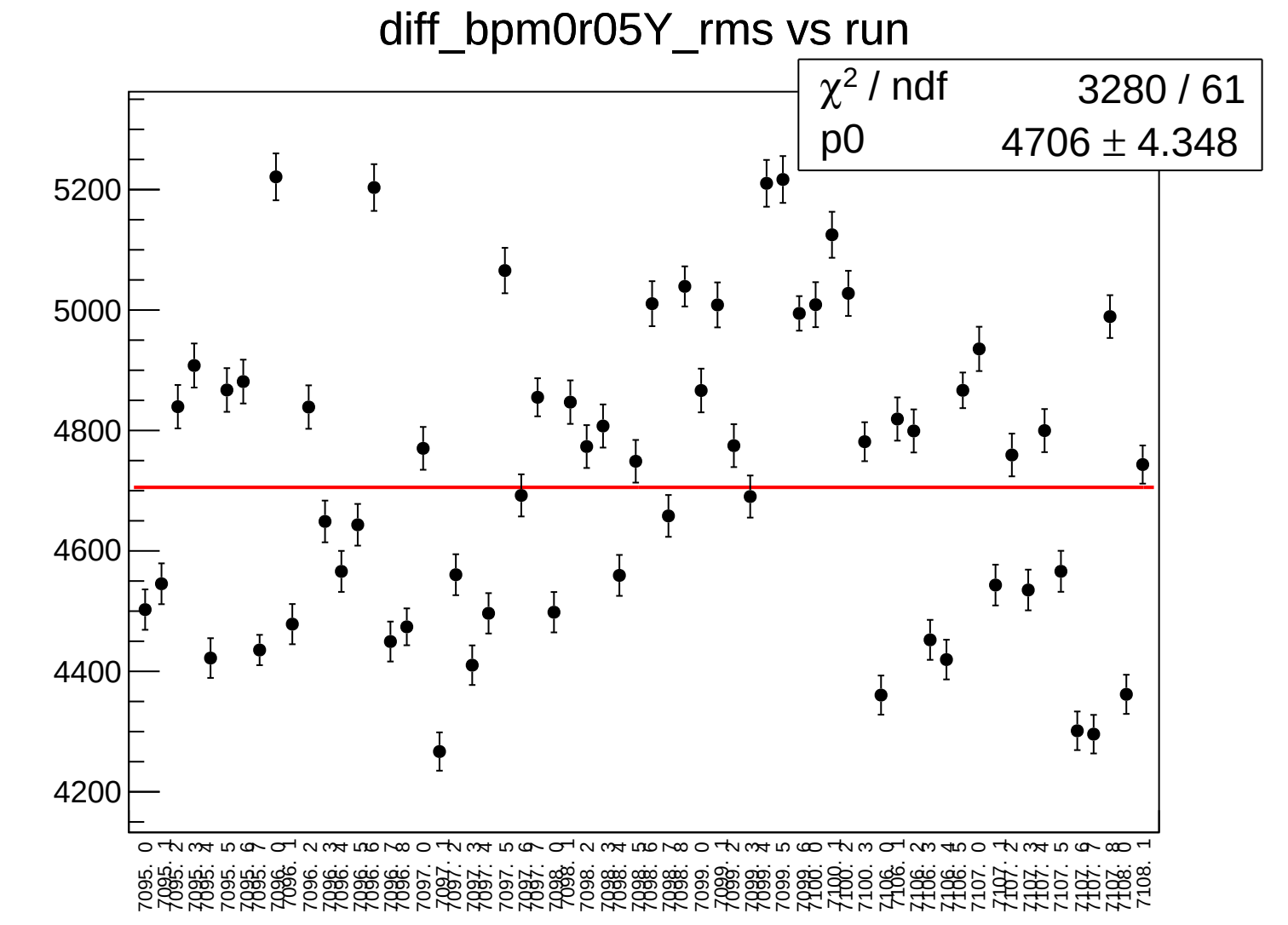

diff_bpm0r05X_mean vs run
χ² / ndf 65.53 / 61
p0 −132.7 ± 129
pull
Entries 62
Mean 329.1
Std Dev 327.5

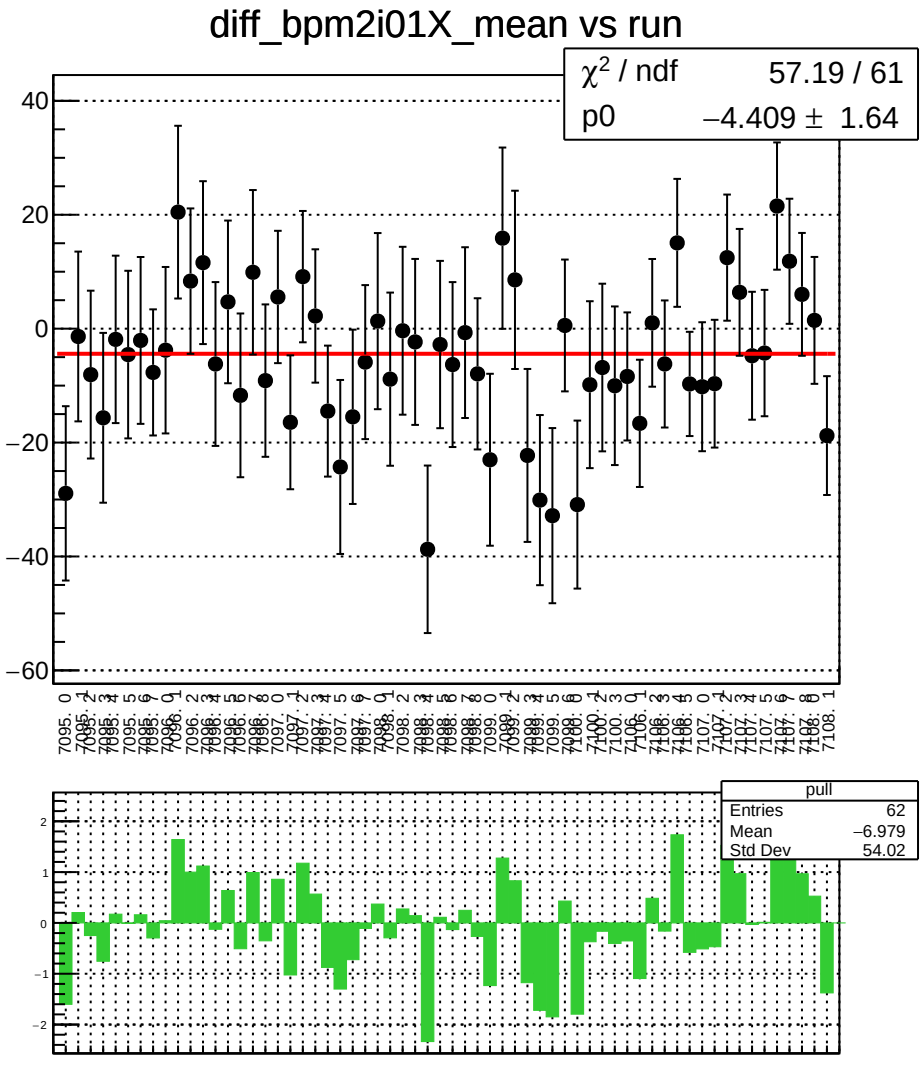

pull1D
Entries 62
Mean −0.001727
Std Dev 1.028

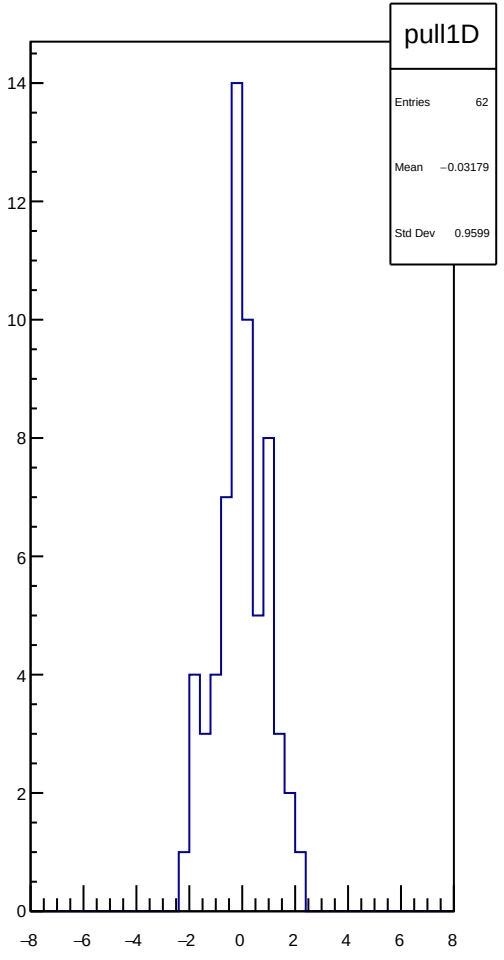

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 3501 / 61
p0 9.871e+04 ± 91.23
110
105
100
95
90

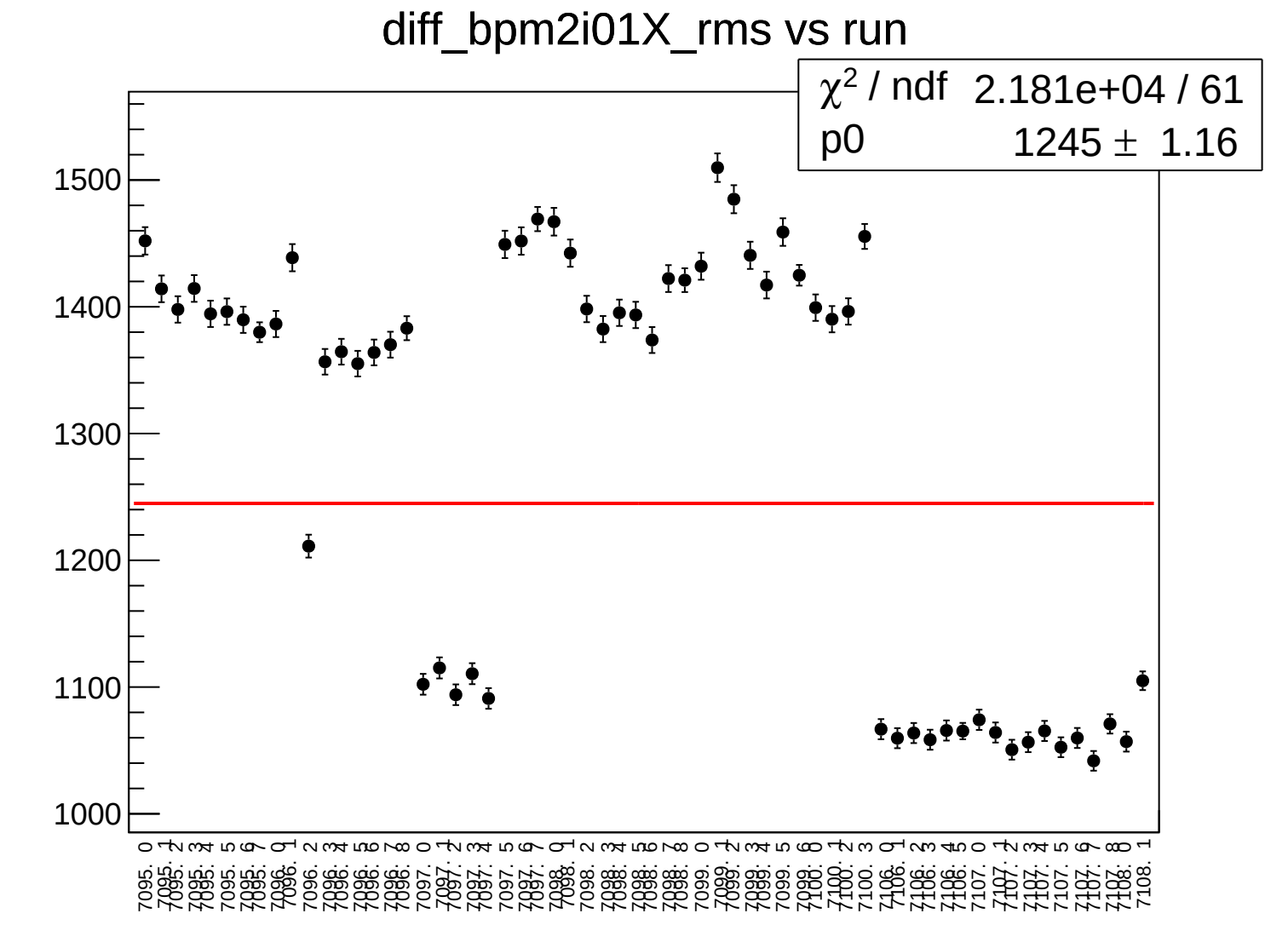

diff_bpm0r05Y_mean vs run
χ² / ndf 61.03 / 61
p0 −2.757 ± 6.149
pull
Entries 62
Mean 260.3
Std Dev 241.6

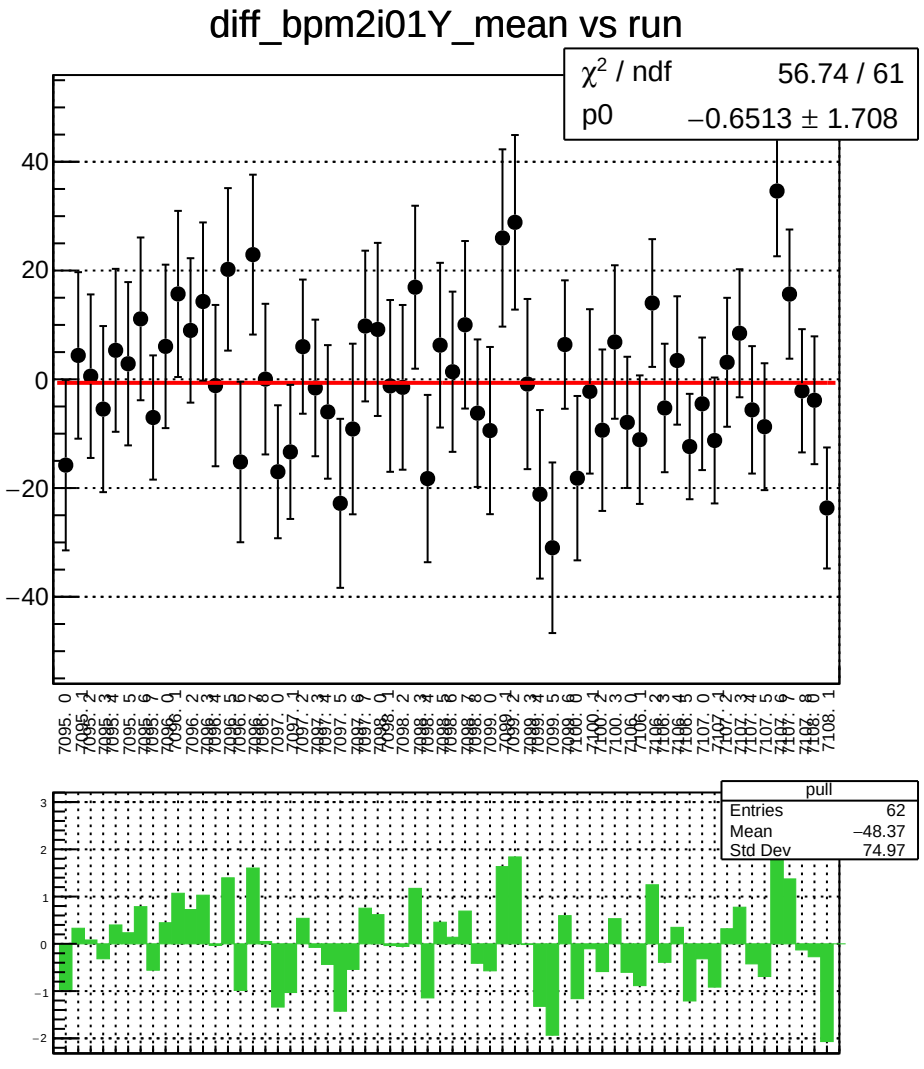

pull1D
Entries 62
Mean −0.004237
Std Dev 0.9921

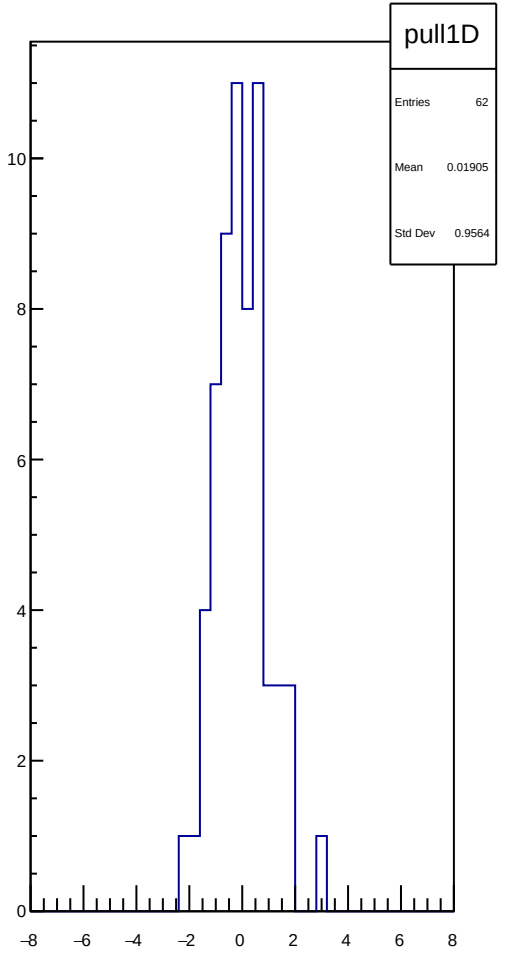

diff_bpm0r05Y_rms vs run
χ^2 / ndf 3280 / 61
p0 4706 ± 4.348
5200
5000
4800
4600
4400
4200

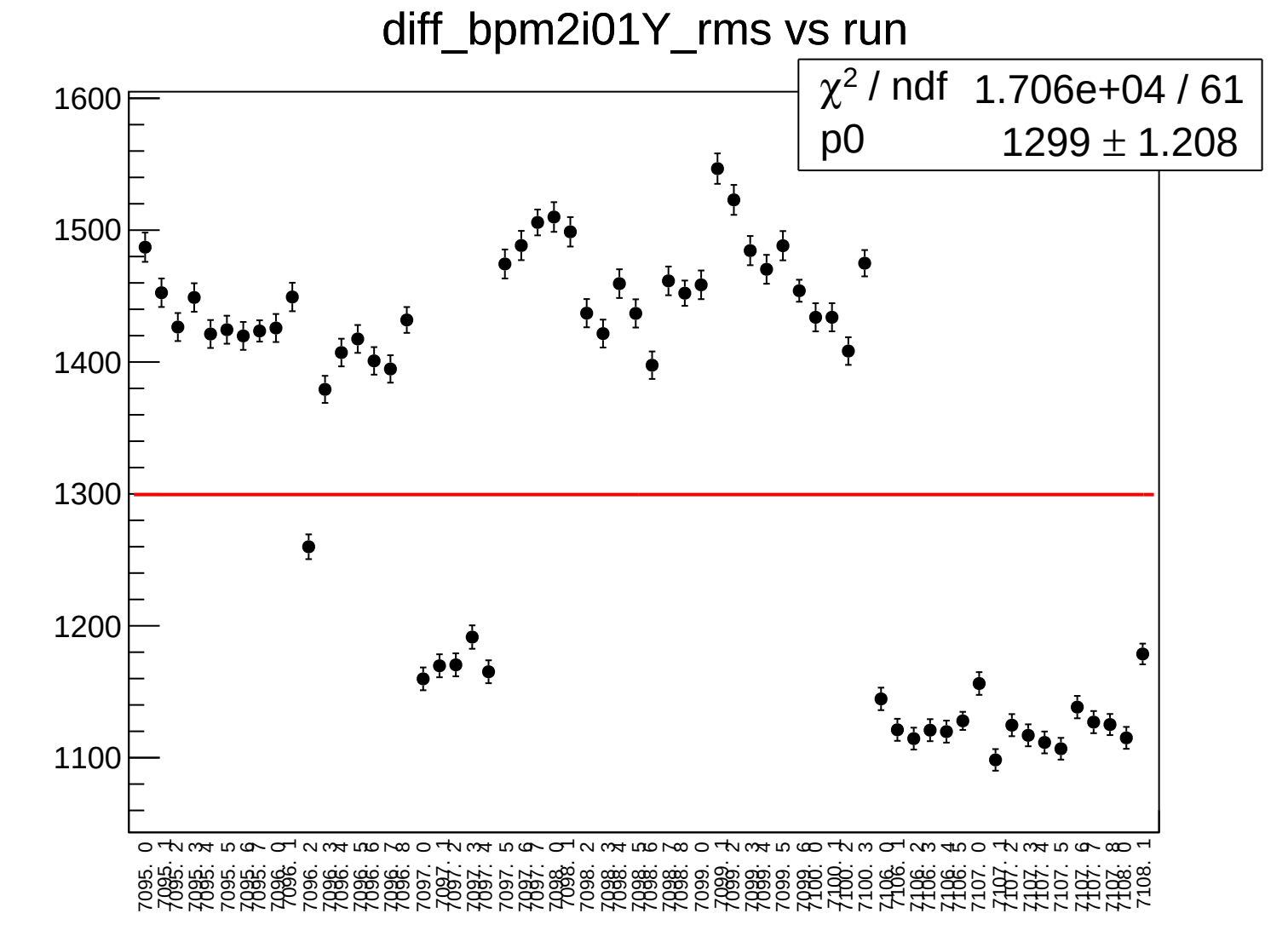

diff_bpm2i01X_mean vs run
χ² / ndf 57.19 / 61
p0 −4.409 ± 1.64
pull
Entries 62
Mean −6.979
Std Dev 54.02

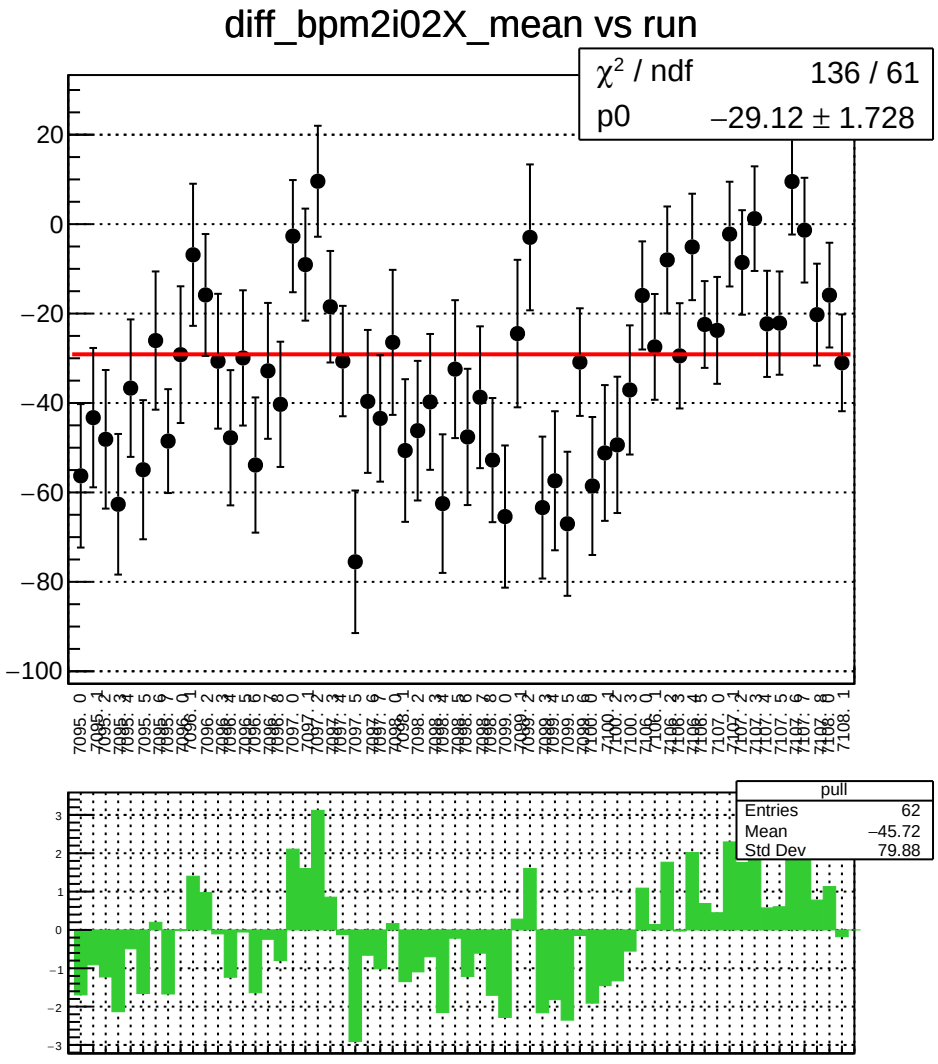

pull1D
Entries 62
Mean −0.03179
Std Dev 0.9599

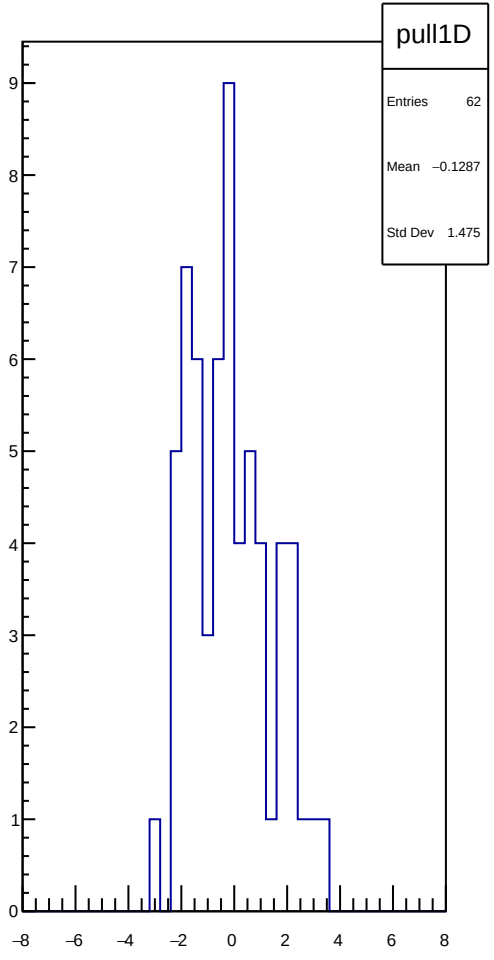

diff_bpm2i01X_rms vs run
χ² / ndf 2.181e+04 / 61
p0 1245 ± 1.16
1500
1400
1300
1200
1100
1000

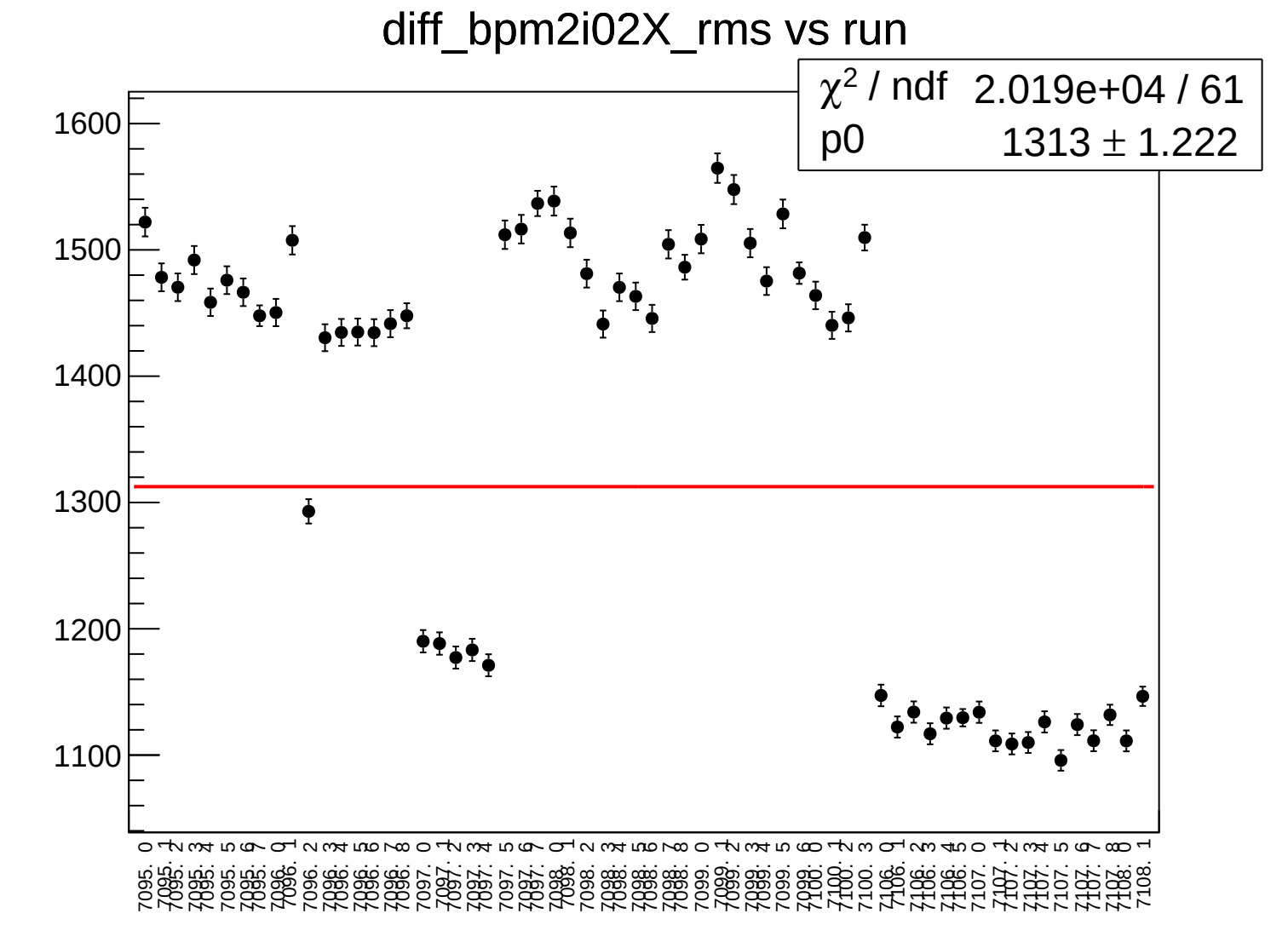

diff_bpm2i01Y_mean vs run
χ² / ndf 56.74 / 61
p0 −0.6513 ± 1.708
pull
Entries 62
Mean −48.37
Std Dev 74.97

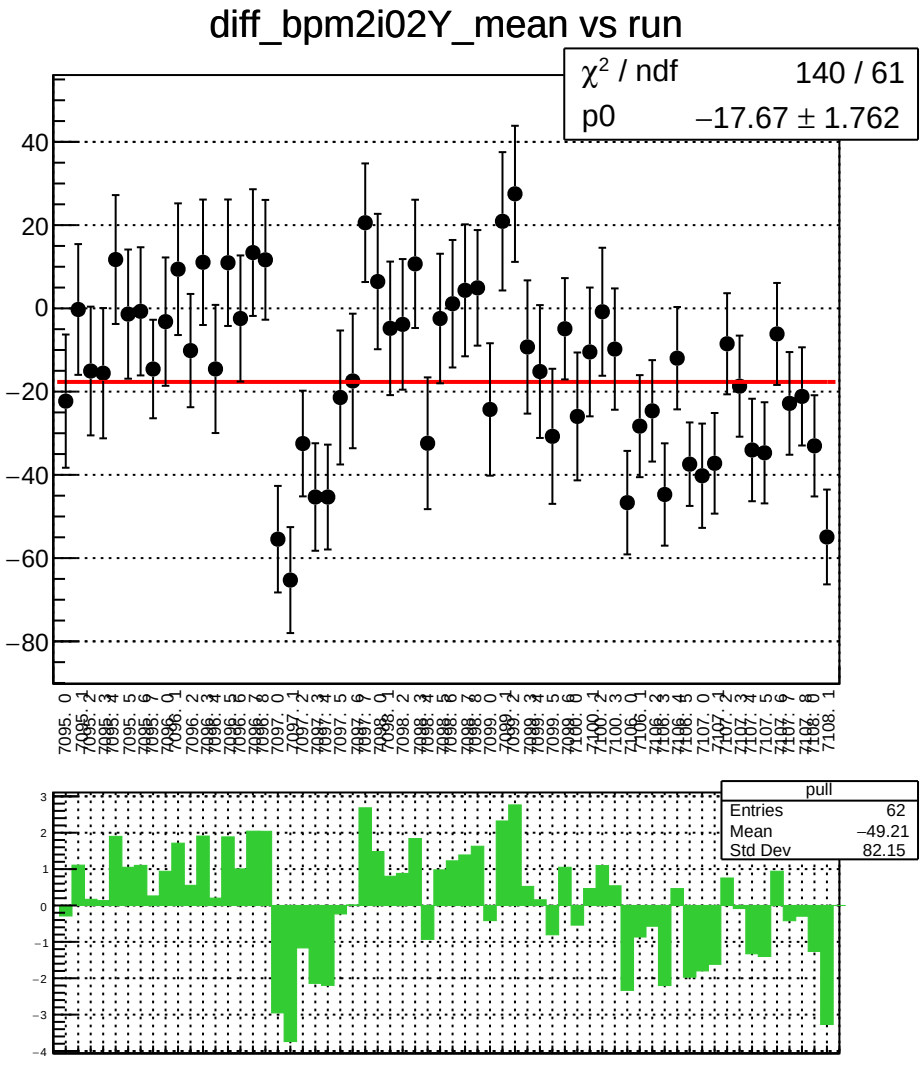

pull1D
Entries 62
Mean 0.01905
Std Dev 0.9564

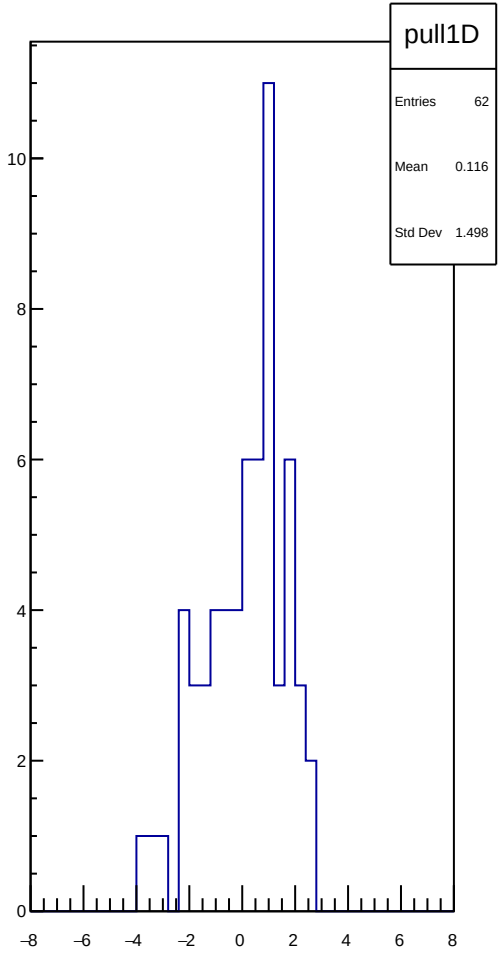

diff_bpm2i01Y_rms vs run
χ² / ndf 1.706e+04 / 61
p0 1299 ± 1.208
1600
1500
1400
1300
1200
1100

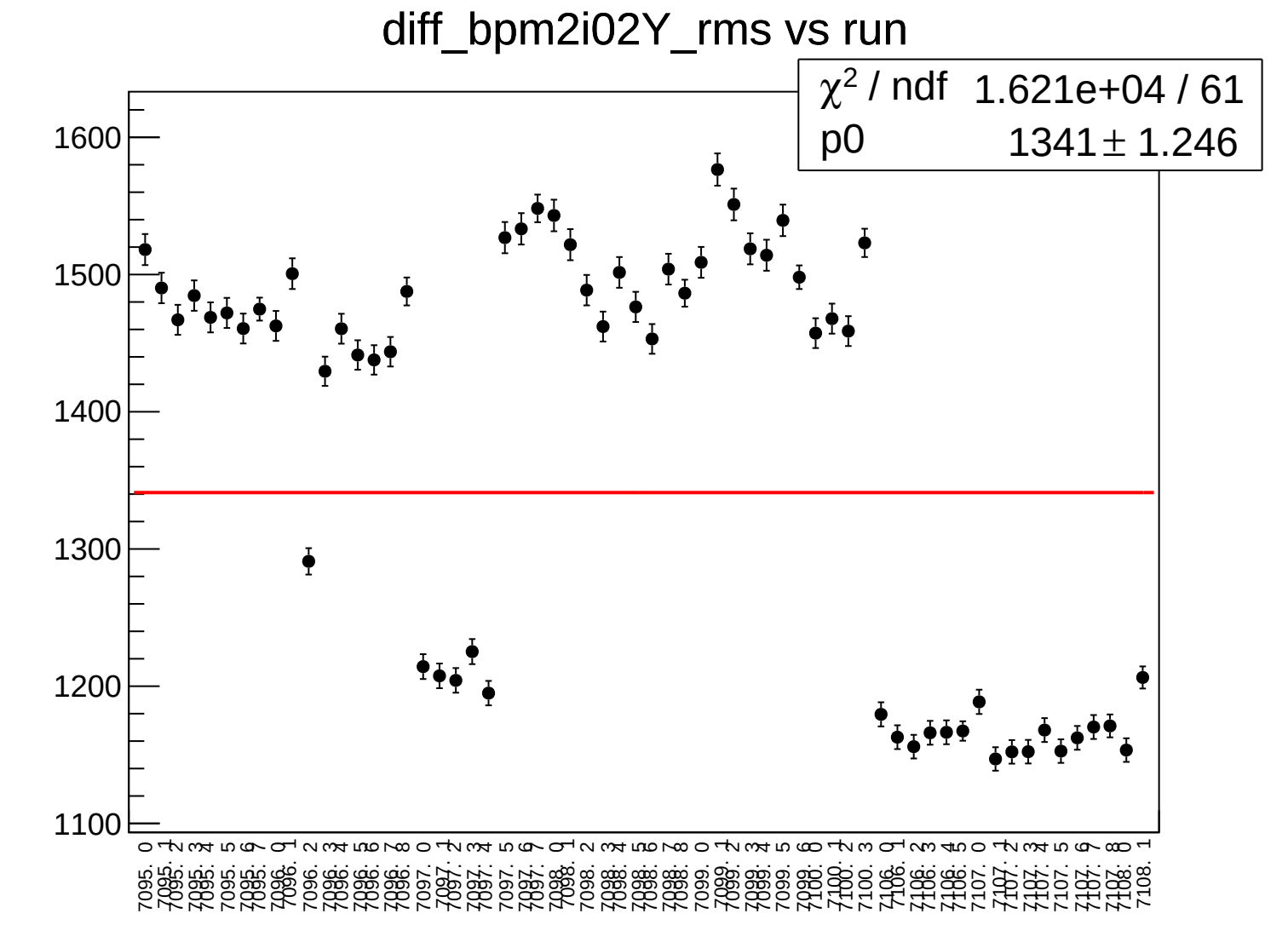

diff_bpm2i02X_mean vs run
χ² / ndf 136 / 61
p0 −29.12 ± 1.728
pull
Entries 62
Mean −45.72
Std Dev 79.88

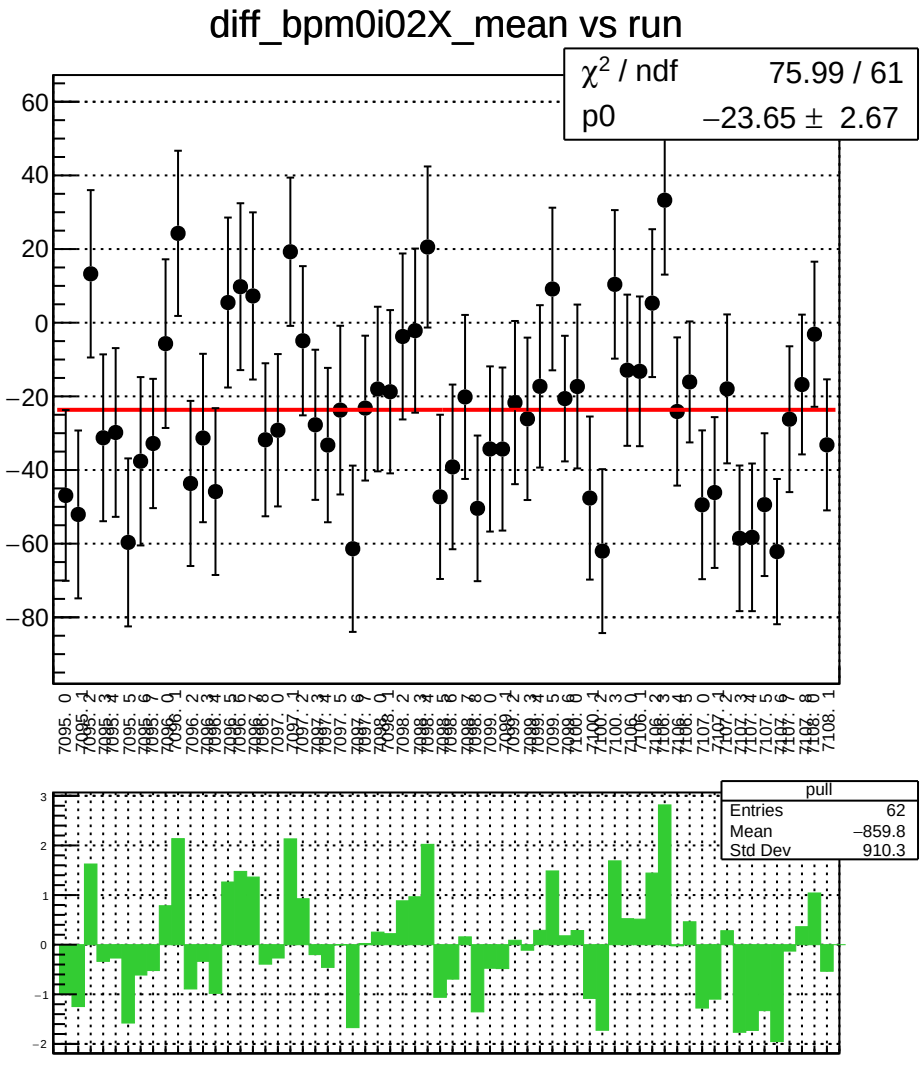

pull1D
Entries 62
Mean −0.1287
Std Dev 1.475

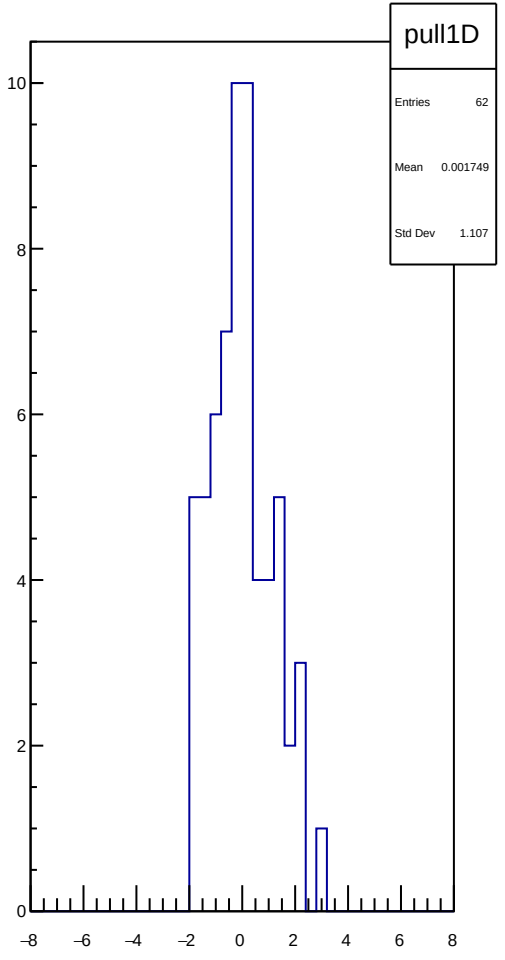

diff_bpm2i02X_rms vs run
χ² / ndf 2.019e+04 / 61
p0 1313 ± 1.222
1600
1500
1400
1300
1200
1100

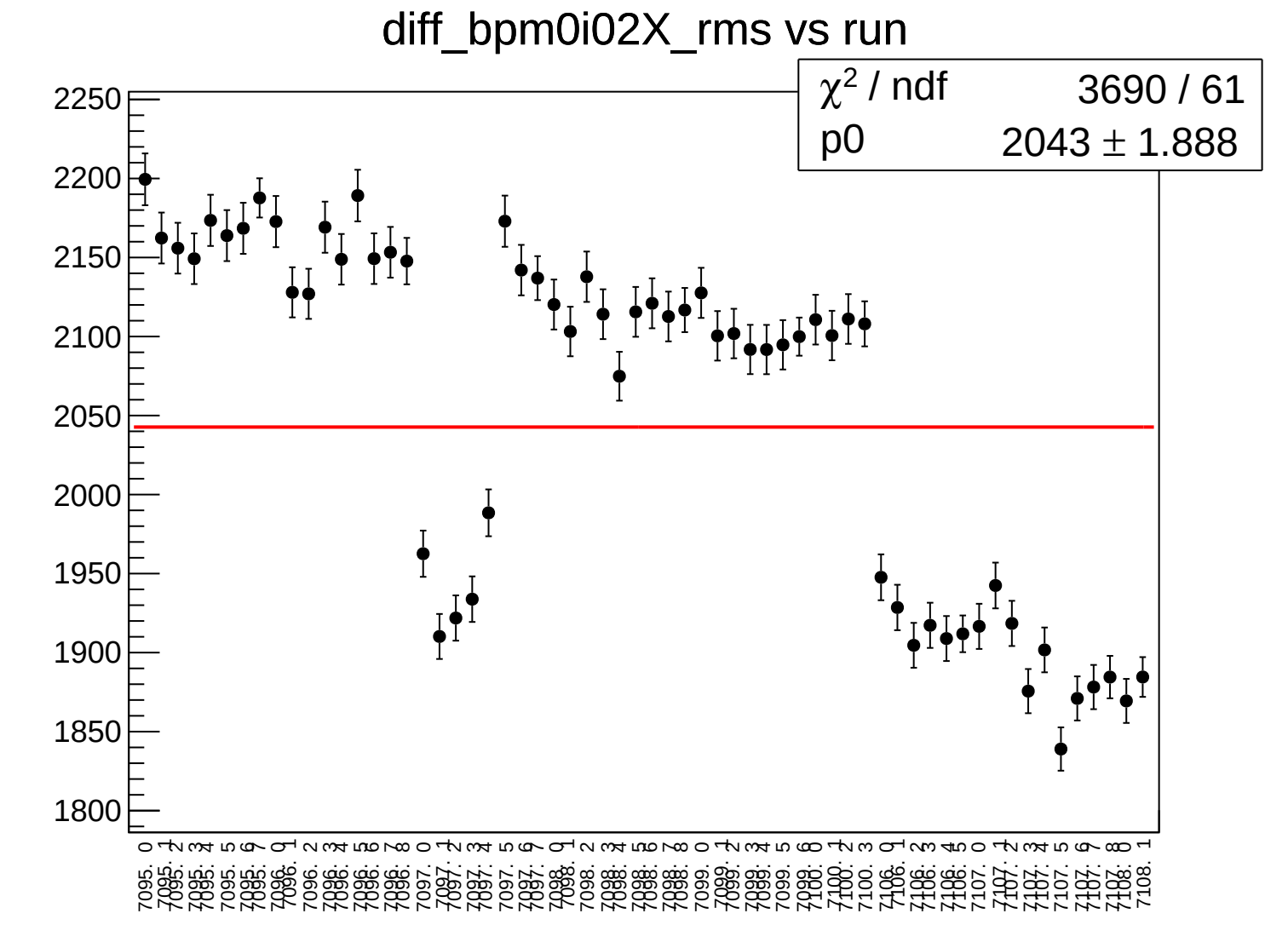

diff_bpm2i02Y_mean vs run
χ² / ndf 140 / 61
p0 −17.67 ± 1.762
pull
Entries 62
Mean −49.21
Std Dev 82.15

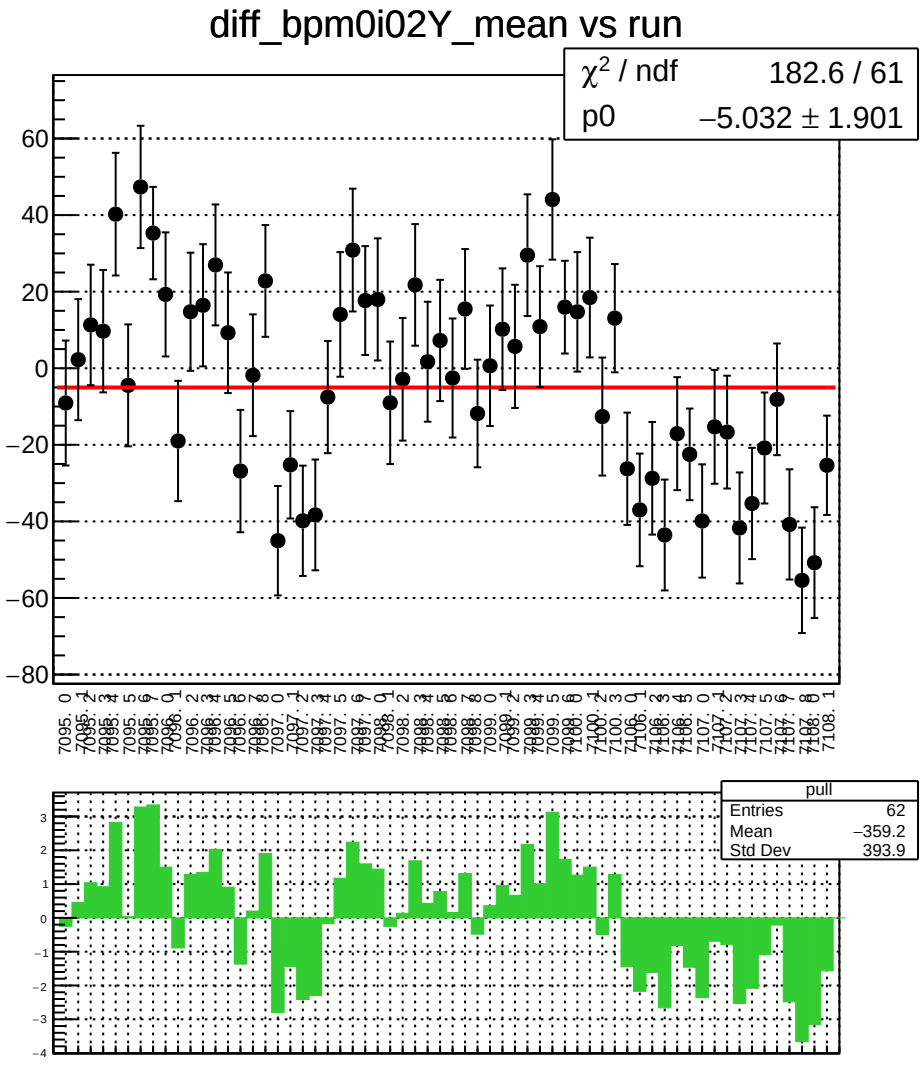

pull1D
Entries 62
Mean 0.116
Std Dev 1.498

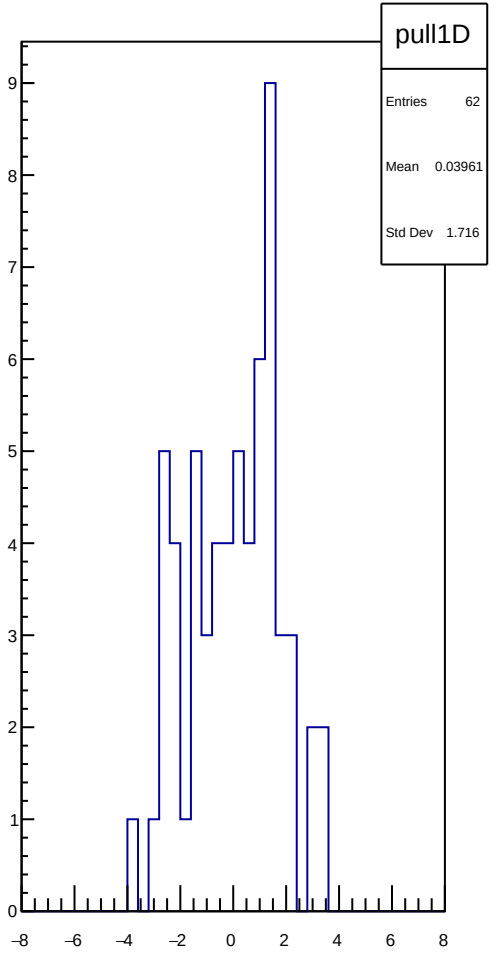

diff_bpm2i02Y_rms vs run
χ² / ndf 1.621e+04 / 61
p0 1341 ± 1.246
1600
1500
1400
1300
1200
1100

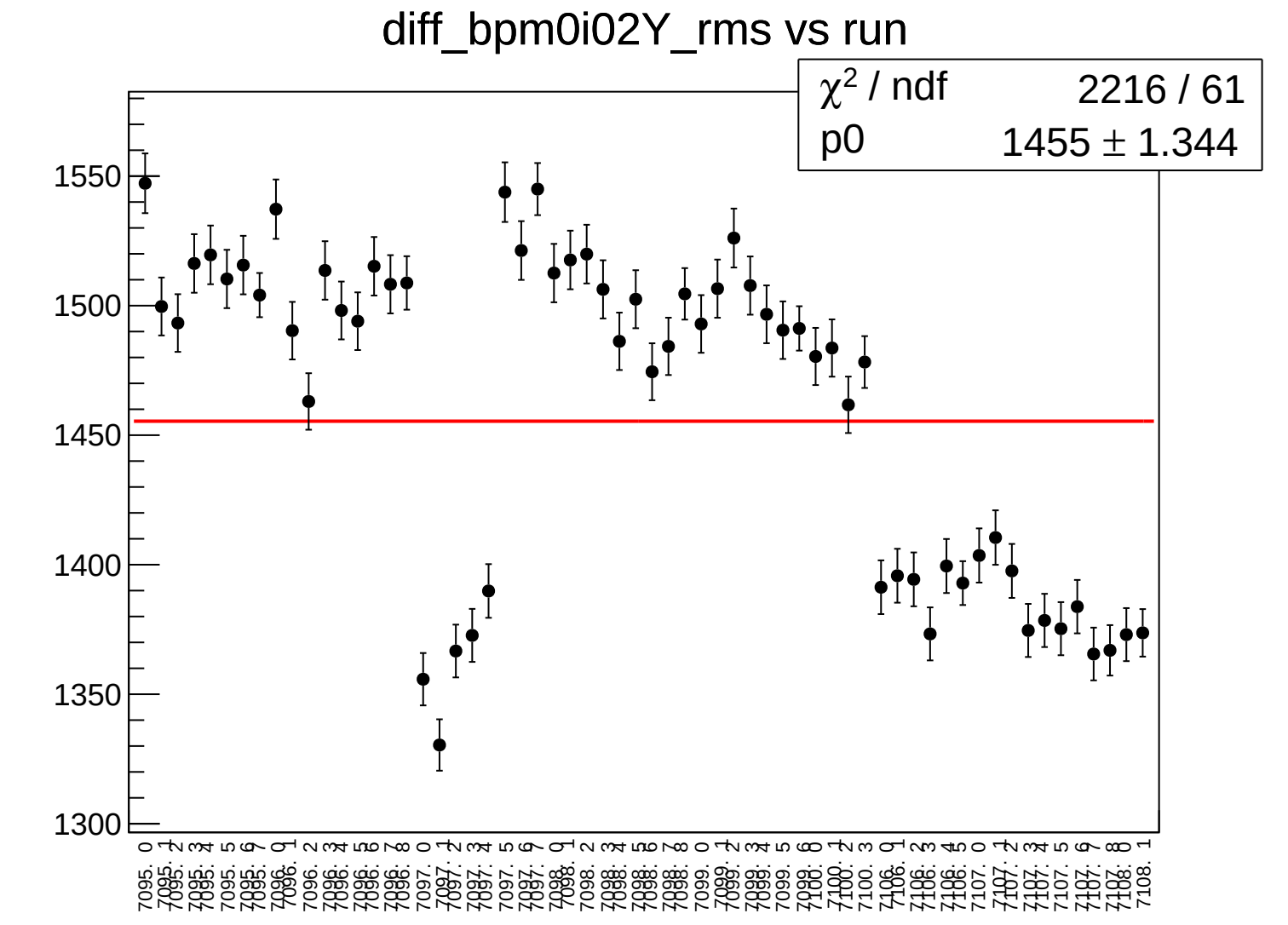

diff_bpm0i02X_mean vs run
χ² / ndf 75.99 / 61
p0 −23.65 ± 2.67
pull
Entries 62
Mean −859.8
Std Dev 910.3

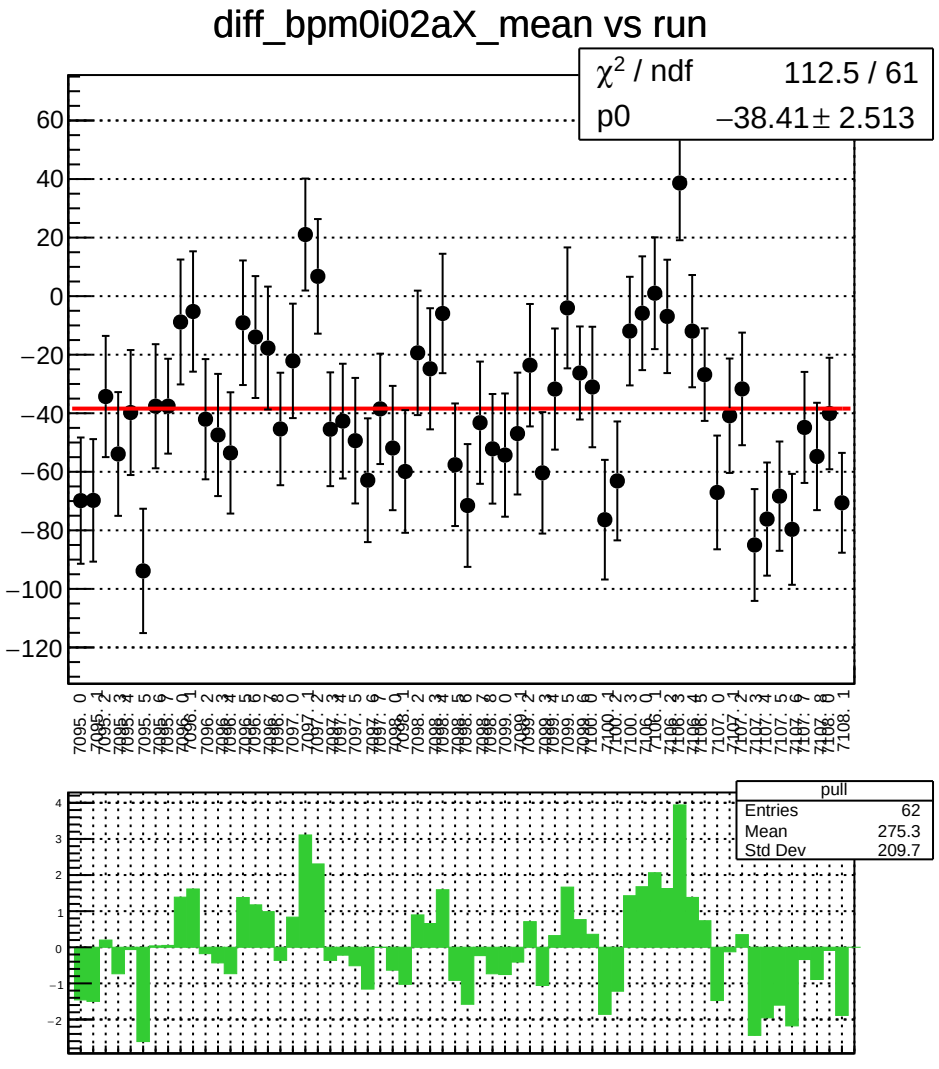

pull1D
Entries 62
Mean 0.001749
Std Dev 1.107

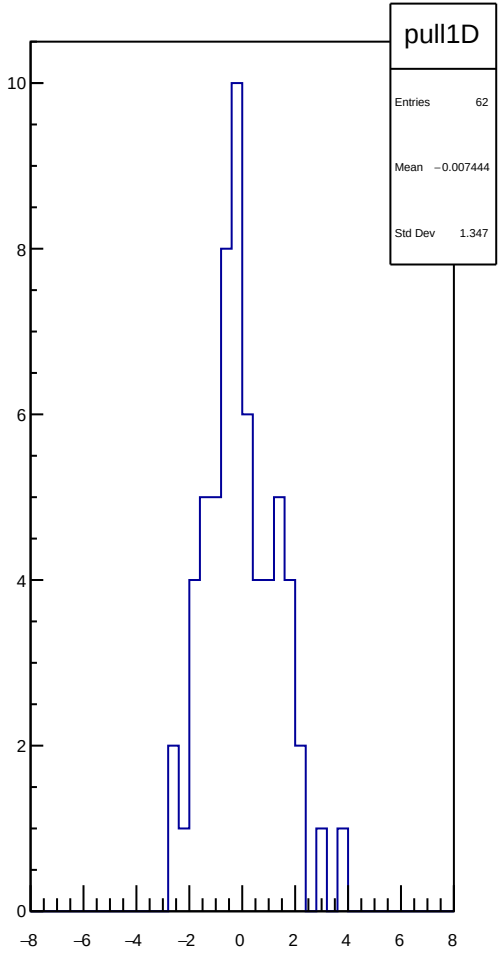

diff_bpm0i02X_rms vs run
χ² / ndf 3690 / 61
p0 2043 ± 1.888
2250
2200
2150
2100
2050
2000
1950
1900
1850
1800

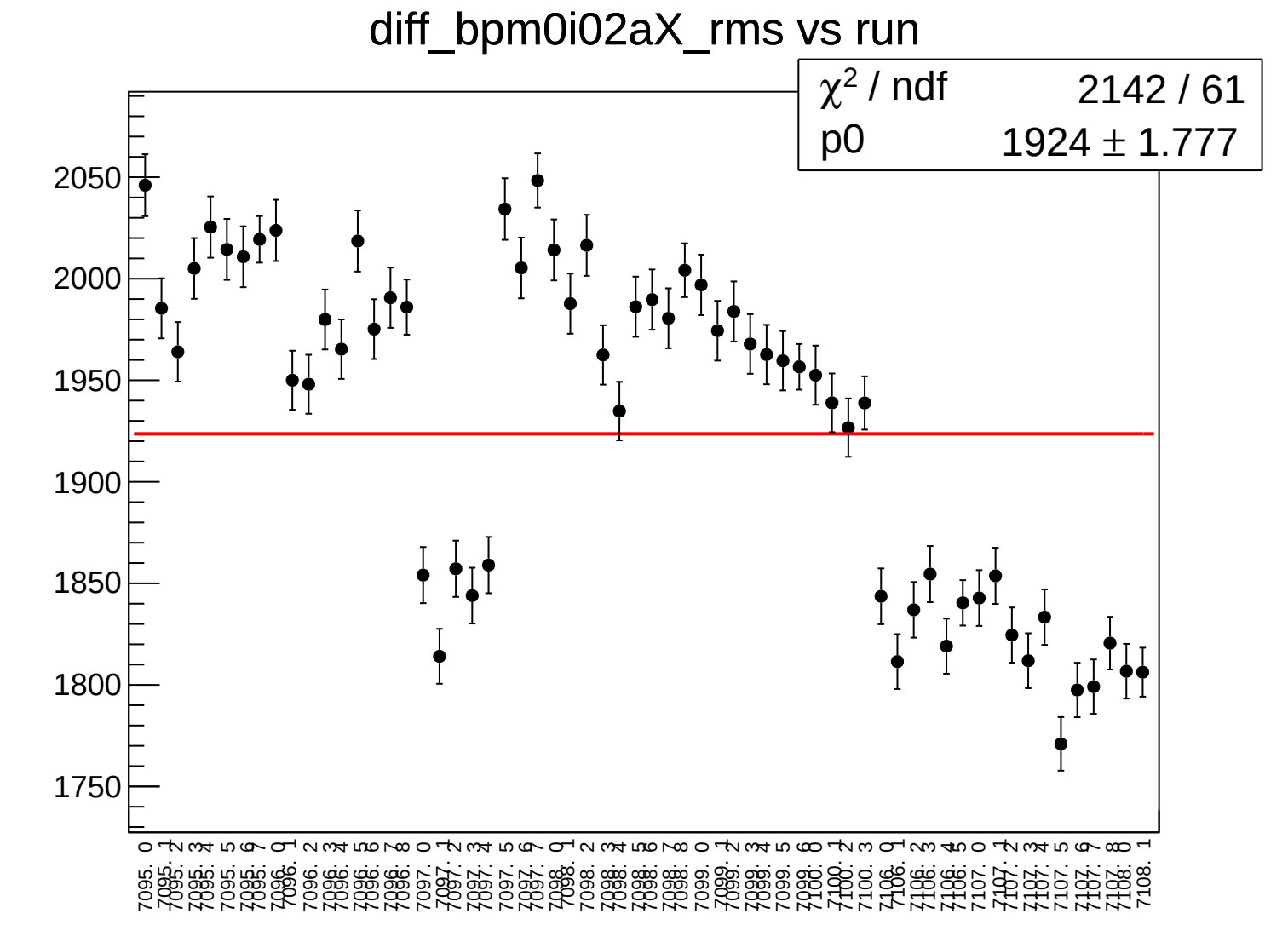

diff_bpm0i02Y_mean vs run
χ^2 / ndf 182.6 / 61
p0 −5.032 ± 1.901
pull
Entries 62
Mean −359.2
Std Dev 393.9

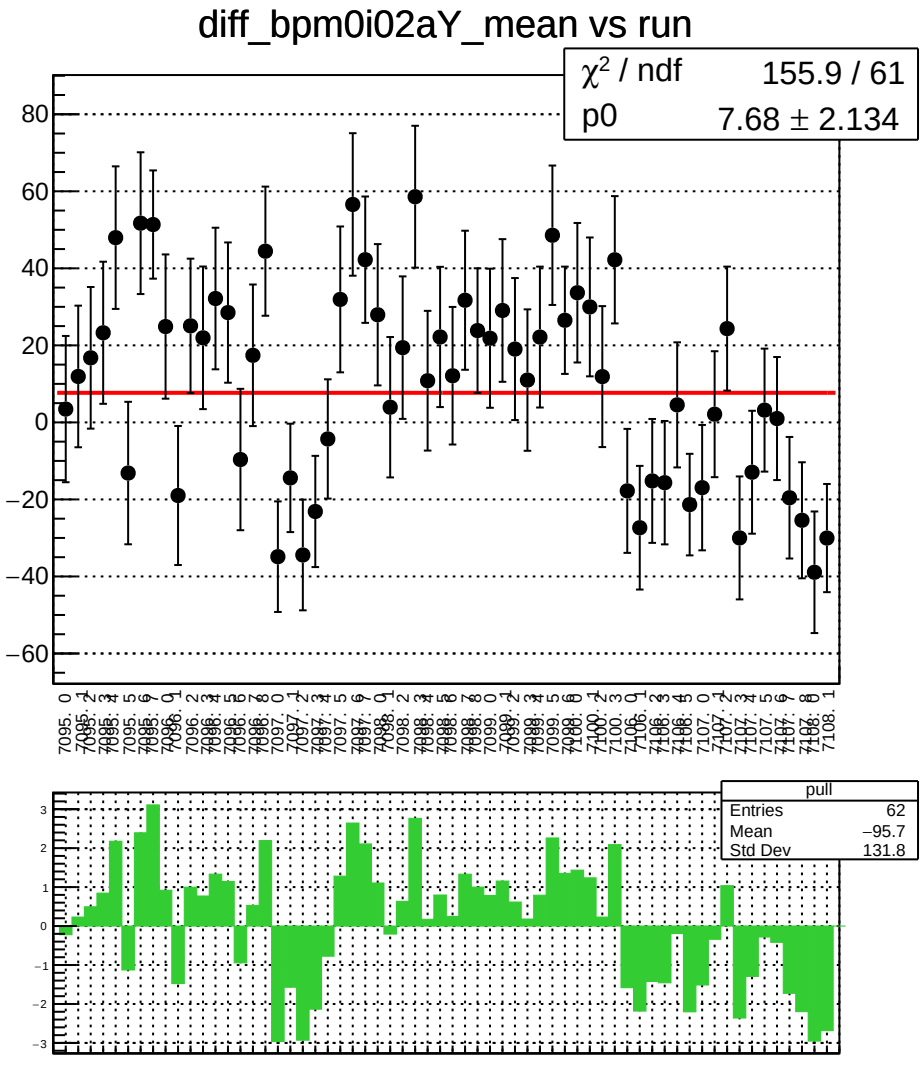

pull1D
Entries 62
Mean 0.03961
Std Dev 1.716

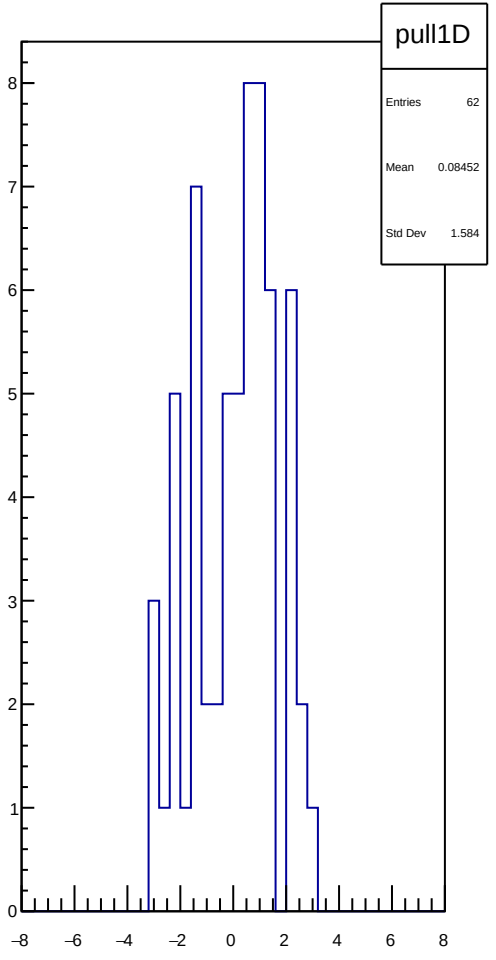

diff_bpm0i02Y_rms vs run
χ² / ndf 2216 / 61
p0 1455 ± 1.344
1550
1500
1450
1400
1350
1300

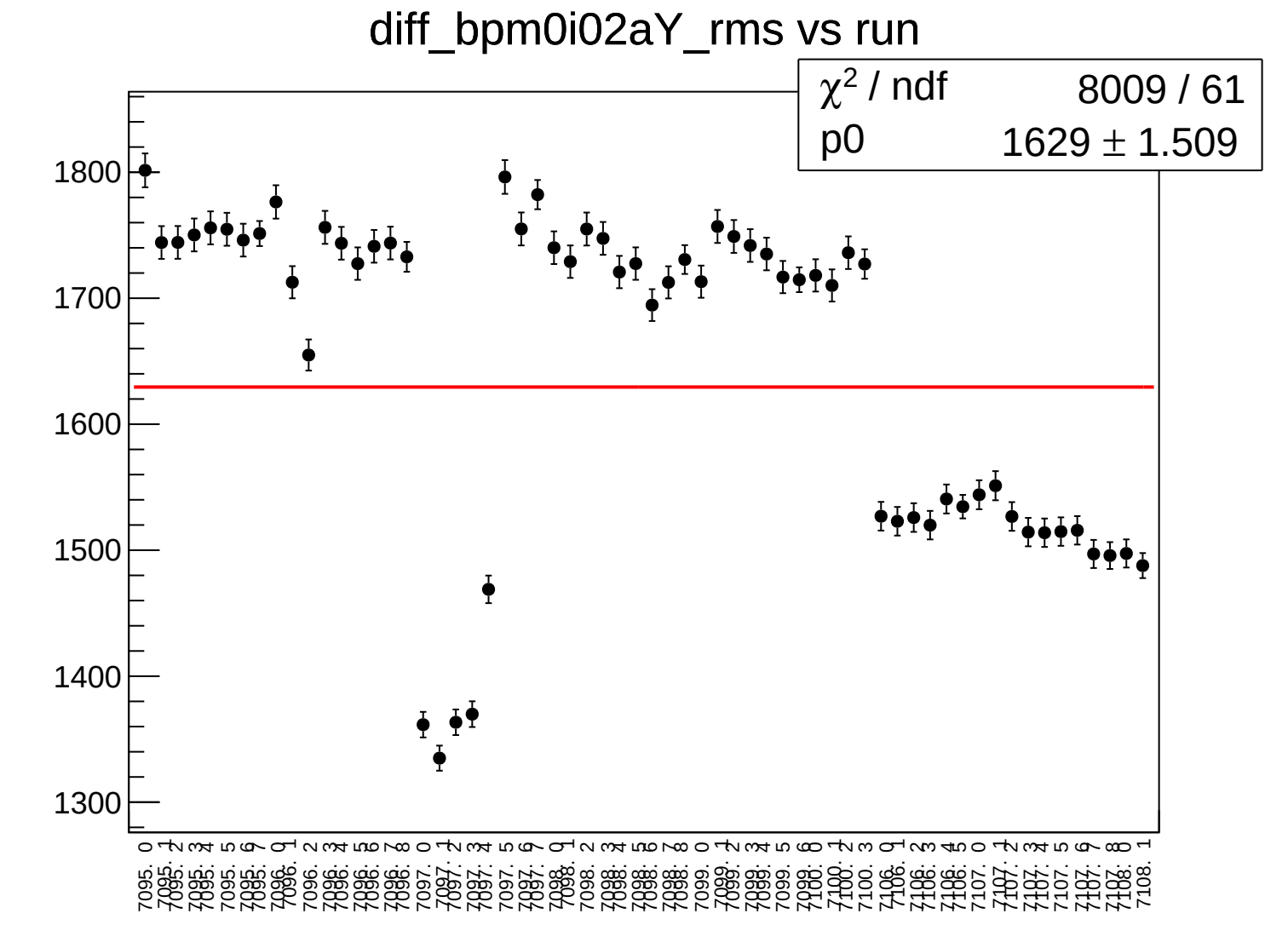

diff_bpm0i02aX_mean vs run
χ² / ndf 112.5 / 61
p0 −38.41 ± 2.513
pull
Entries 62
Mean 275.3
Std Dev 209.7

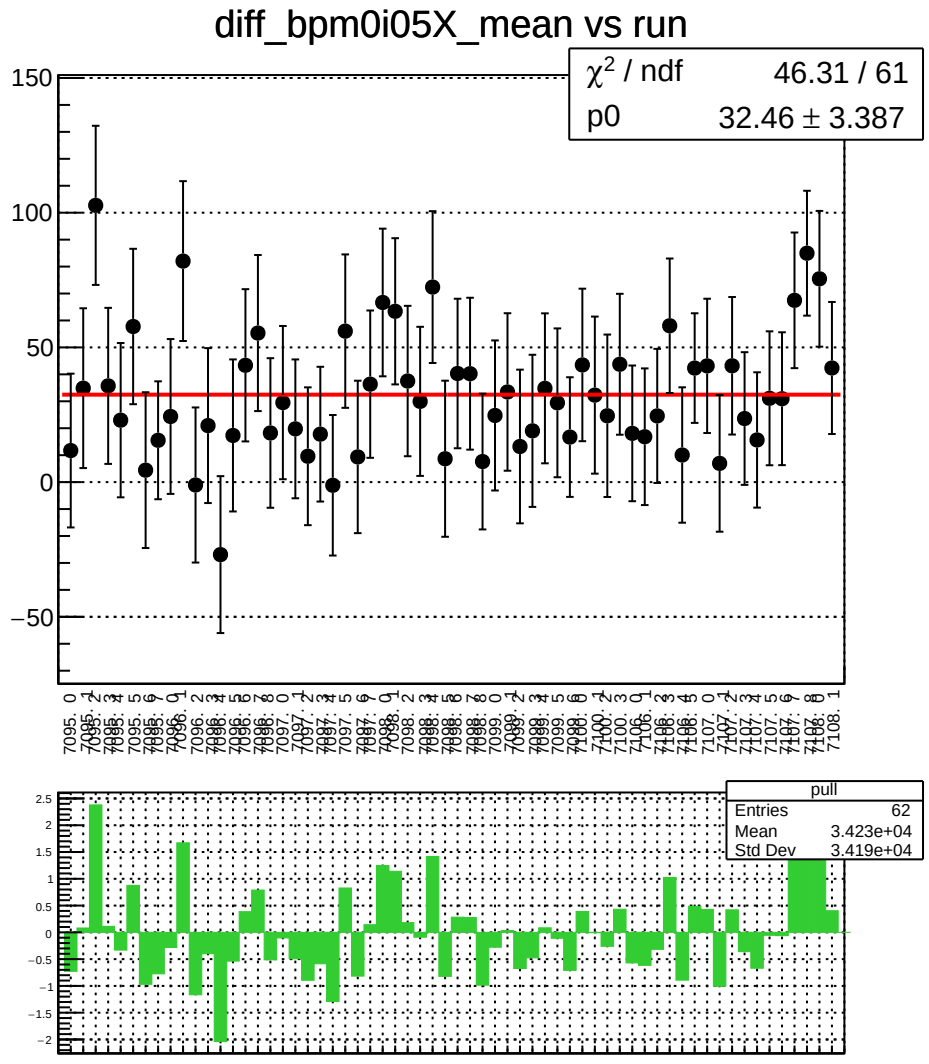

pull1D
Entries 62
Mean −0.007444
Std Dev 1.347

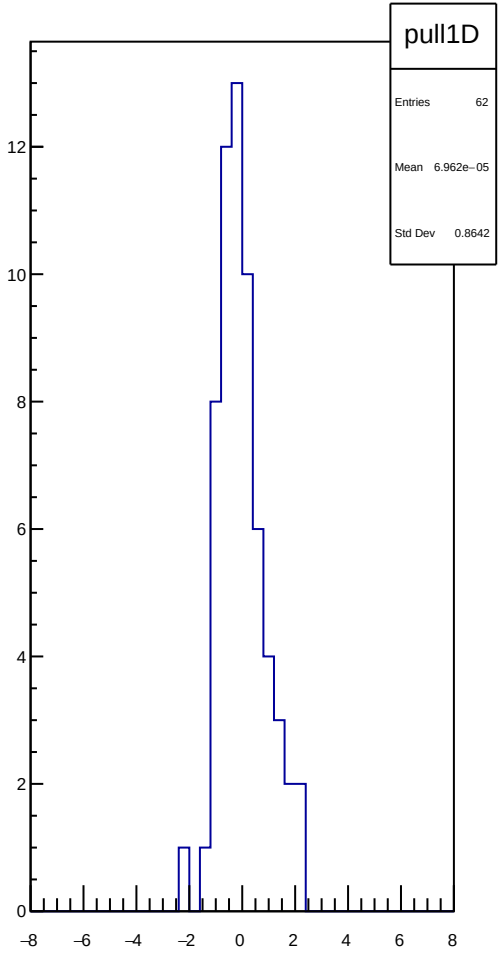

diff_bpm0i02aX_rms vs run
χ² / ndf 2142 / 61
p0 1924 ± 1.777
2050
2000
1950
1900
1850
1800
1750

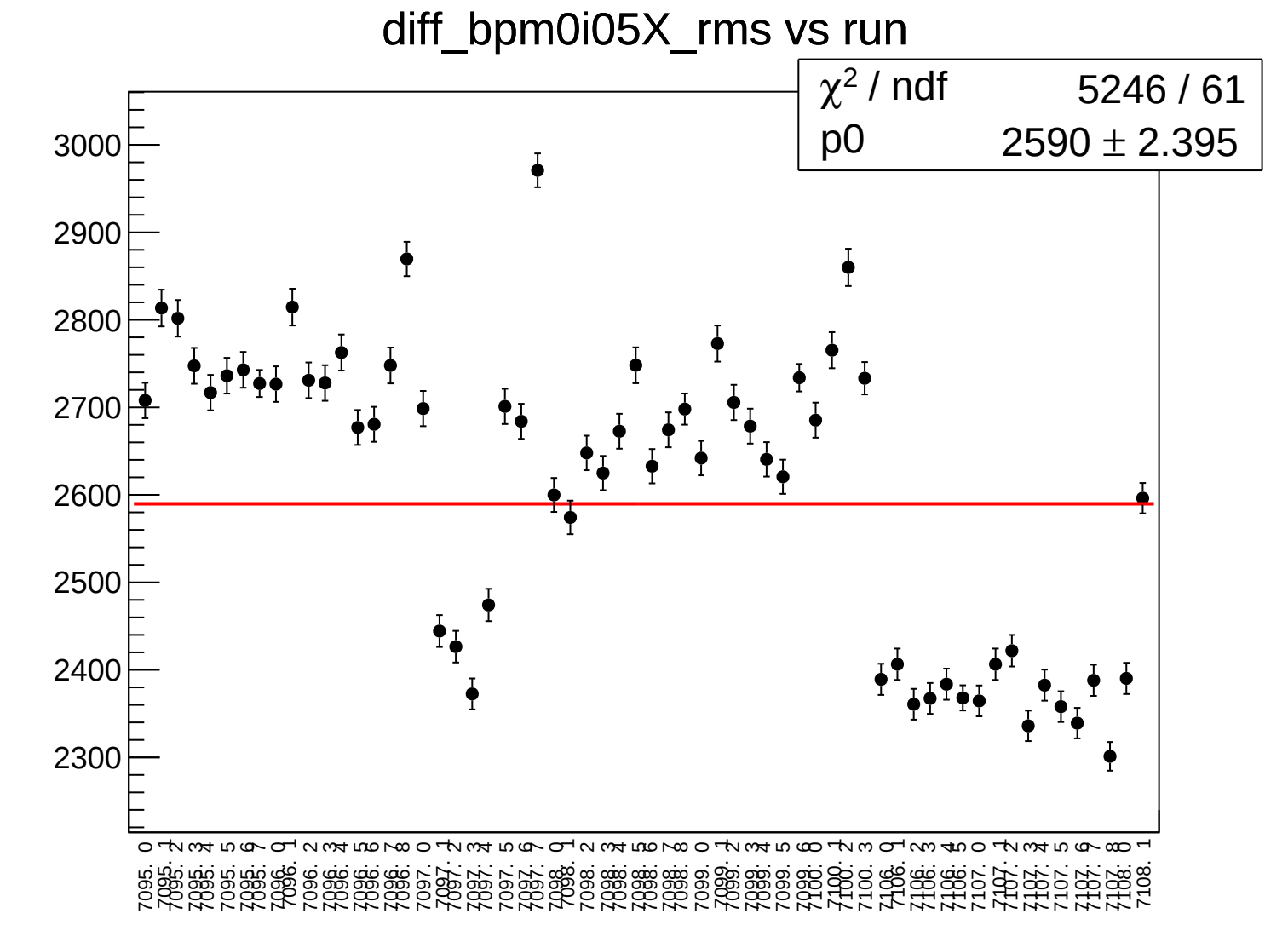

diff_bpm0i02aY_mean vs run
χ² / ndf 155.9 / 61
p0 7.68 ± 2.134
pull
Entries 62
Mean −95.7
Std Dev 131.8

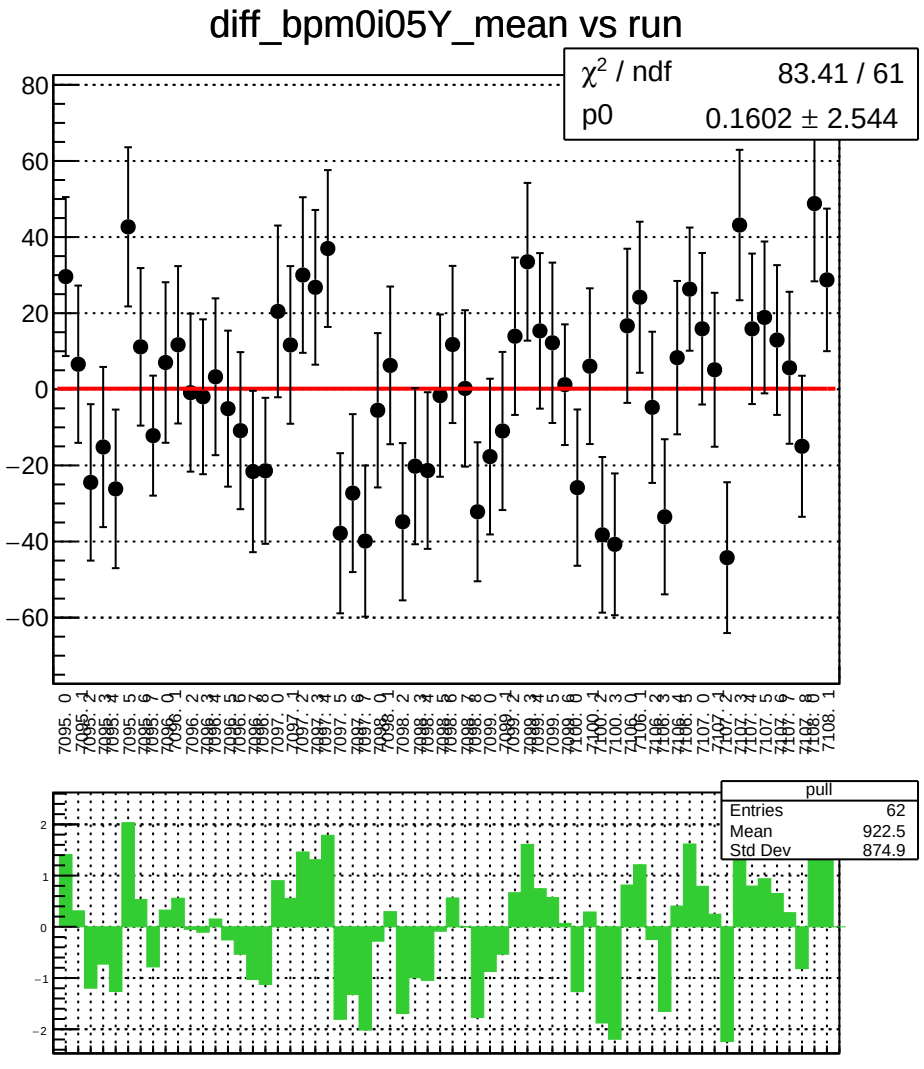

pull1D
Entries 62
Mean 0.08452
Std Dev 1.584

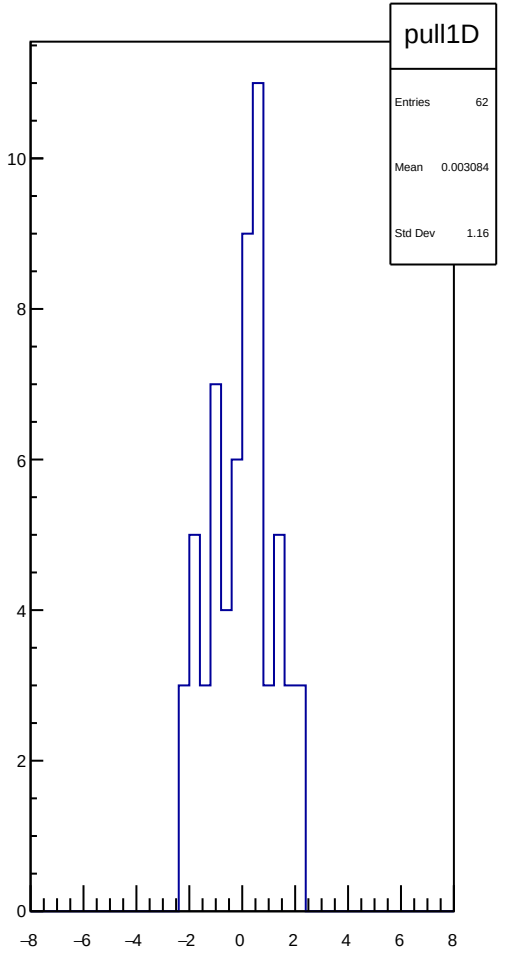

diff_bpm0i02aY_rms vs run
χ² / ndf 8009 / 61
p0 1629 ± 1.509
1800
1700
1600
1500
1400
1300

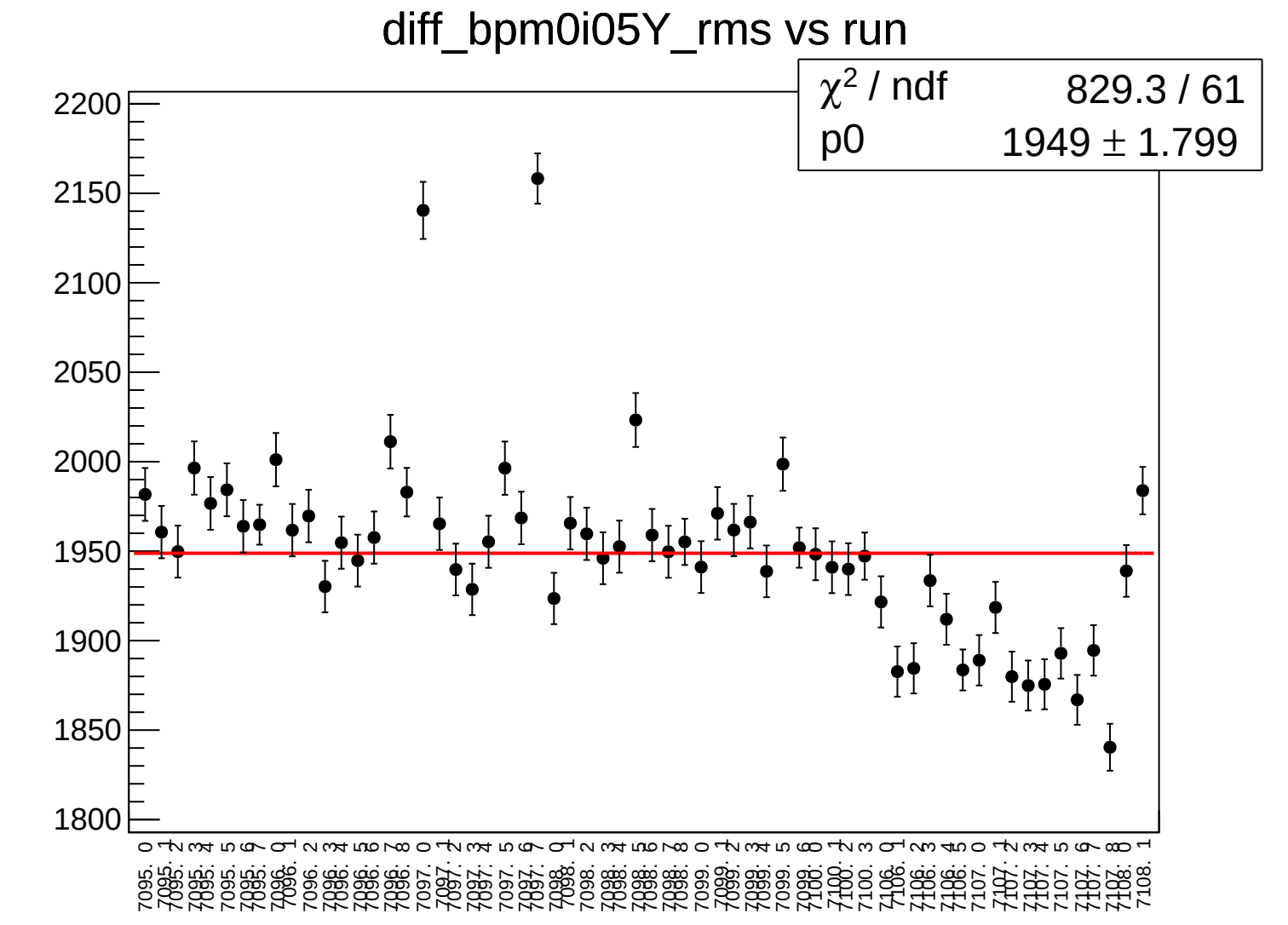

diff_bpm0i05X_mean vs run
χ² / ndf 46.31 / 61
p0 32.46 ± 3.387
150
100
50
0
−50
pull
Entries 62
Mean 3.423e+04
Std Dev 3.419e+04
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

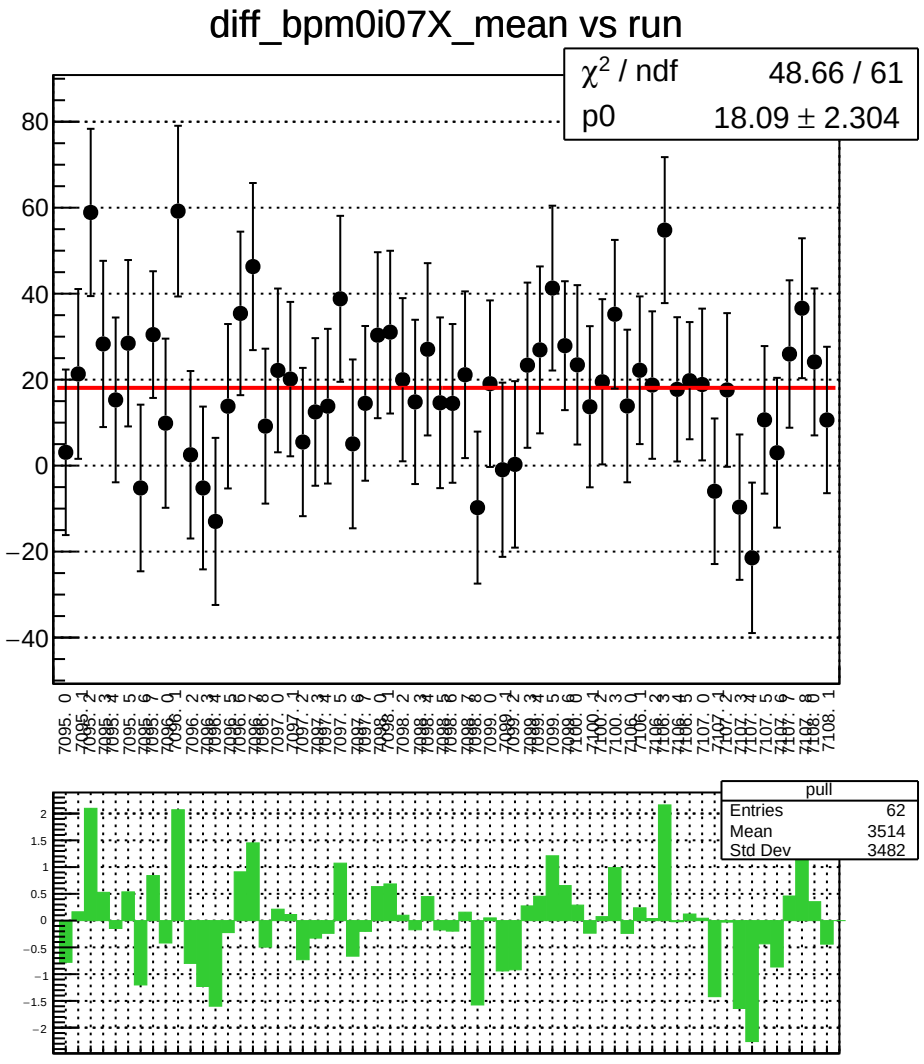

pull1D
Entries 62
Mean 6.962e−05
Std Dev 0.8642
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

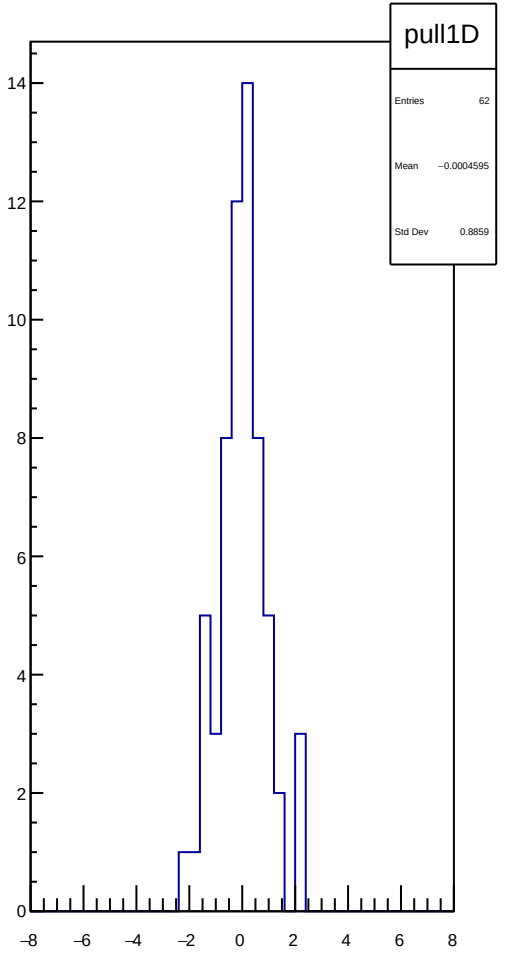

diff_bpm0i05X_rms vs run
χ² / ndf 5246 / 61
p0 2590 ± 2.395
3000
2900
2800
2700
2600
2500
2400
2300

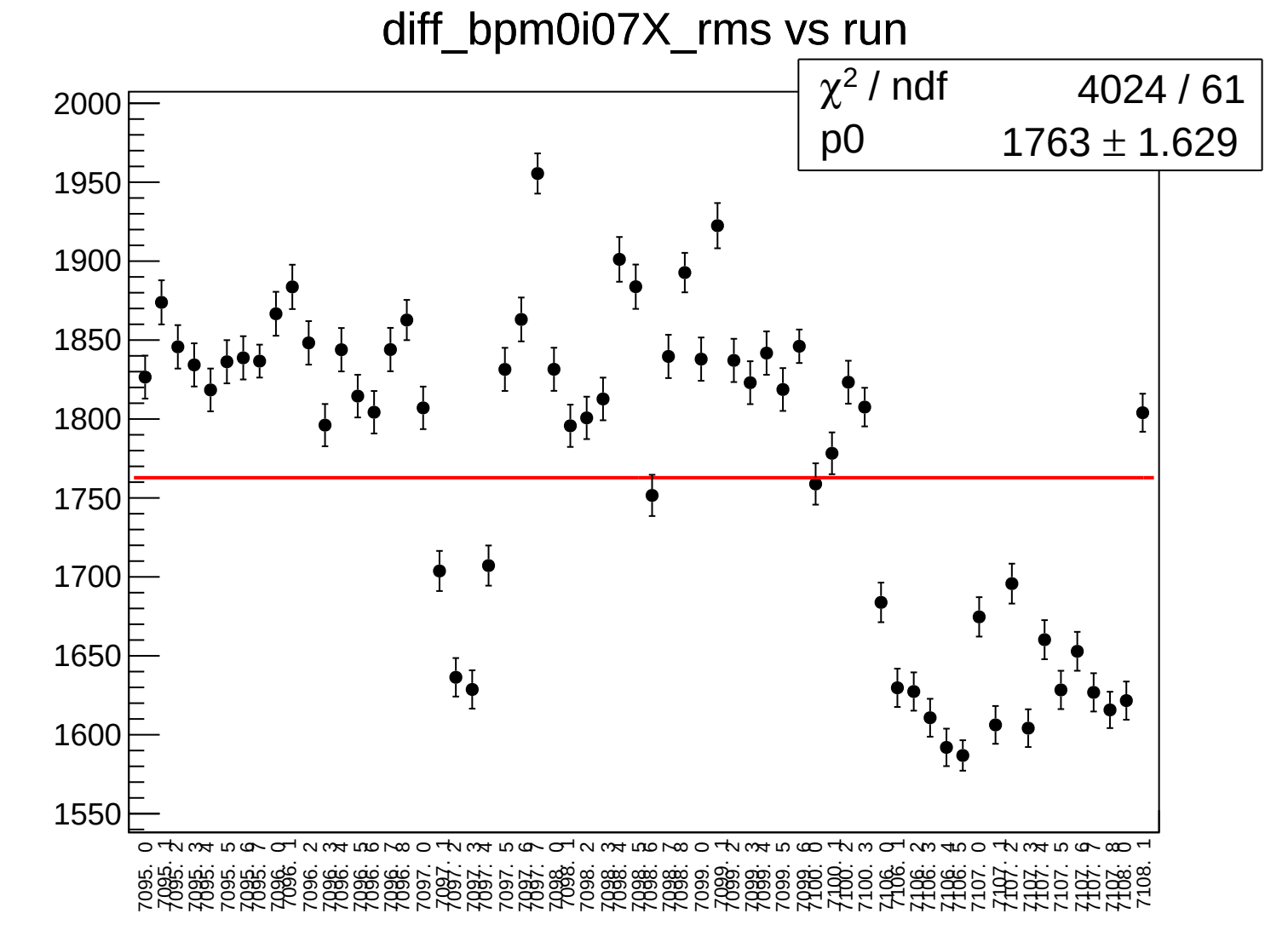

diff_bpm0i05Y_mean vs run
χ² / ndf 83.41 / 61
p0 0.1602 ± 2.544
pull
Entries 62
Mean 922.5
Std Dev 874.9

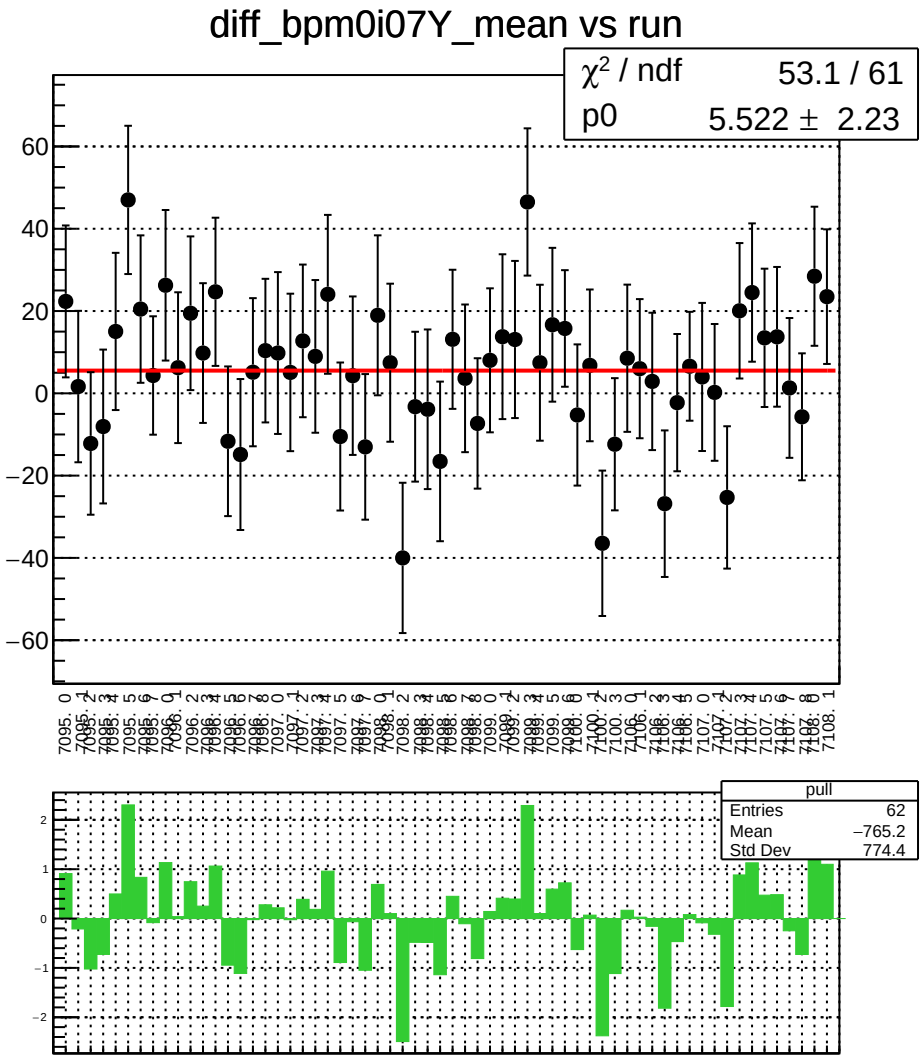

pull1D
Entries 62
Mean 0.003084
Std Dev 1.16

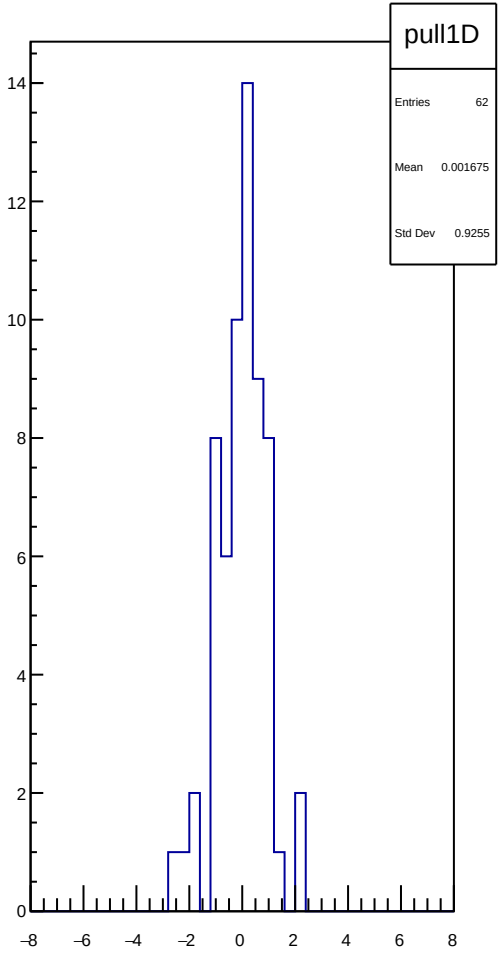

diff_bpm0i05Y_rms vs run
χ² / ndf 829.3 / 61
p0 1949 ± 1.799
2200
2150
2100
2050
2000
1950
1900
1850
1800

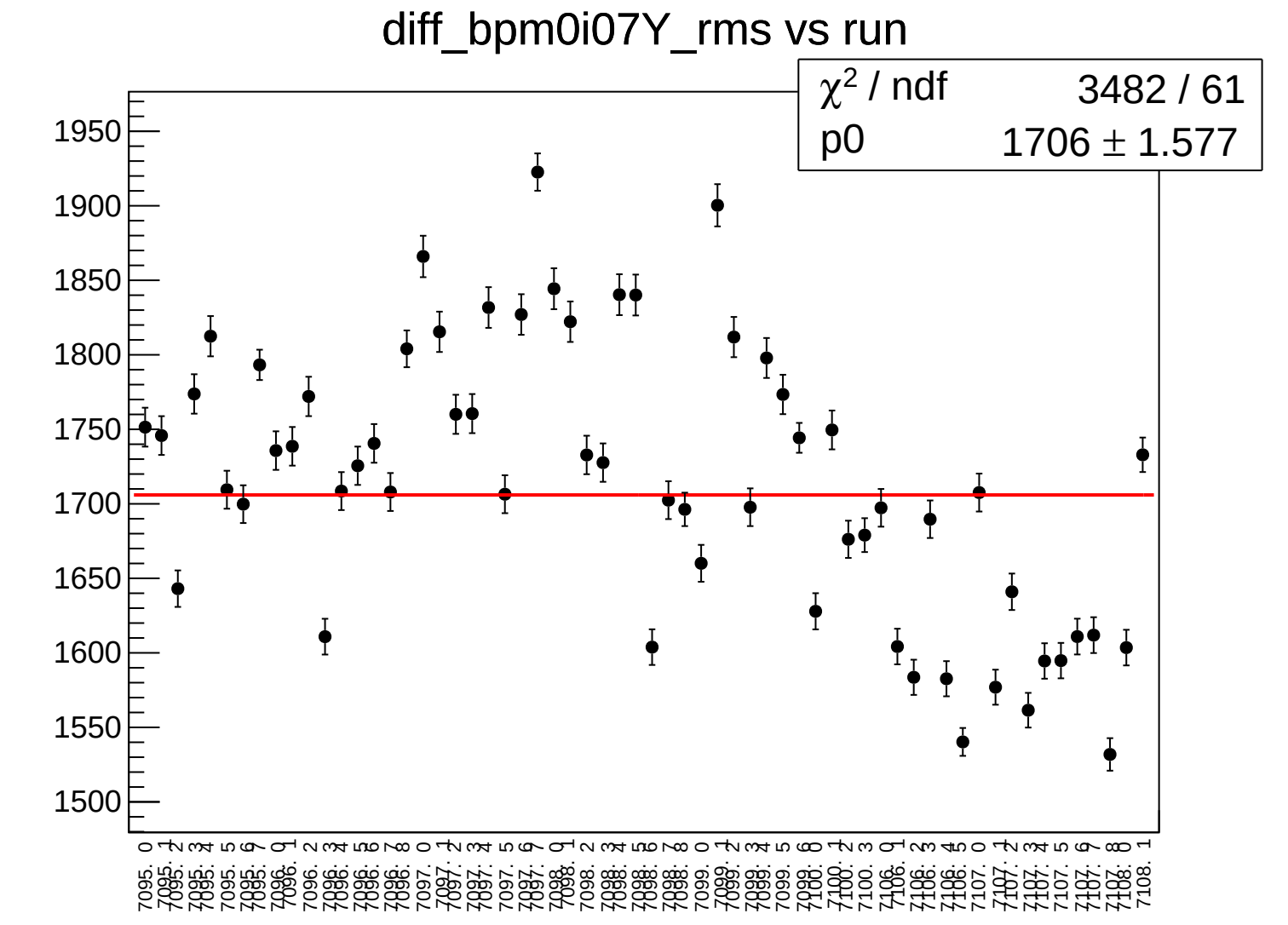

diff_bpm0i07X_mean vs run
χ² / ndf 48.66 / 61
p0 18.09 ± 2.304
pull
Entries 62
Mean 3514
Std Dev 3482

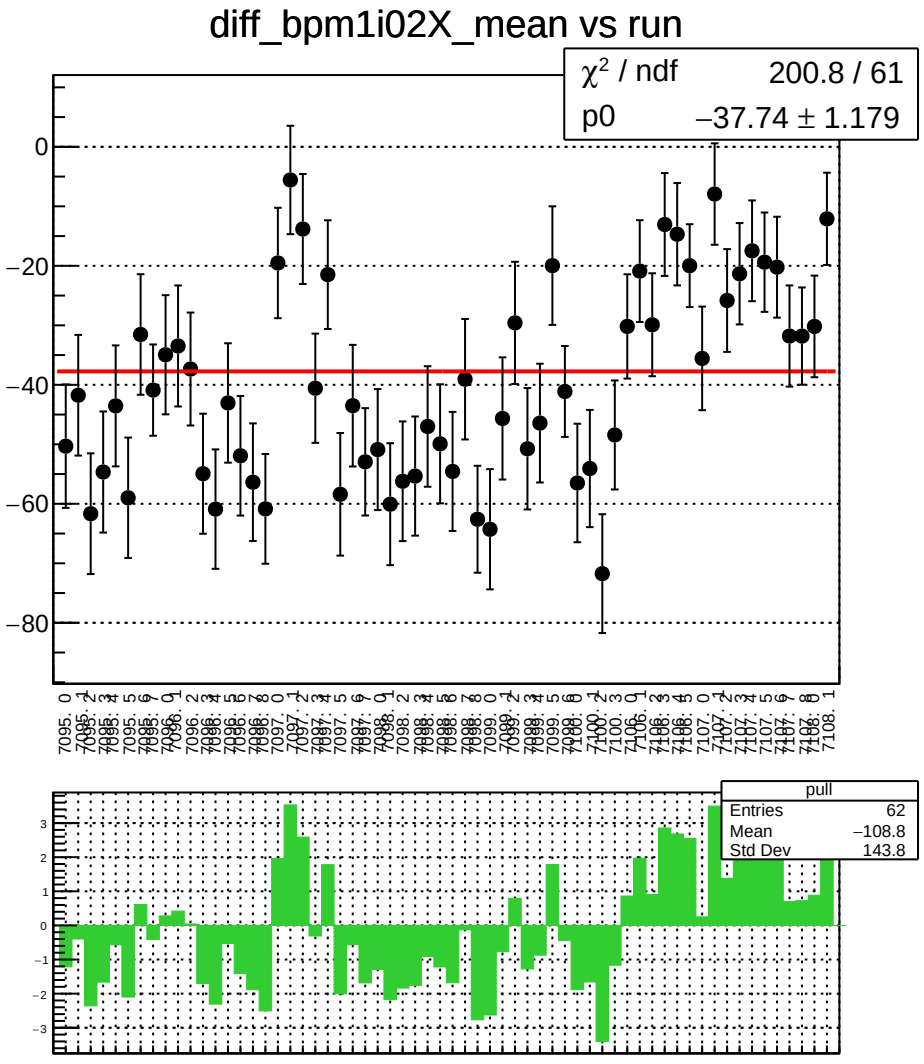

pull1D
Entries 62
Mean −0.0004595
Std Dev 0.8859

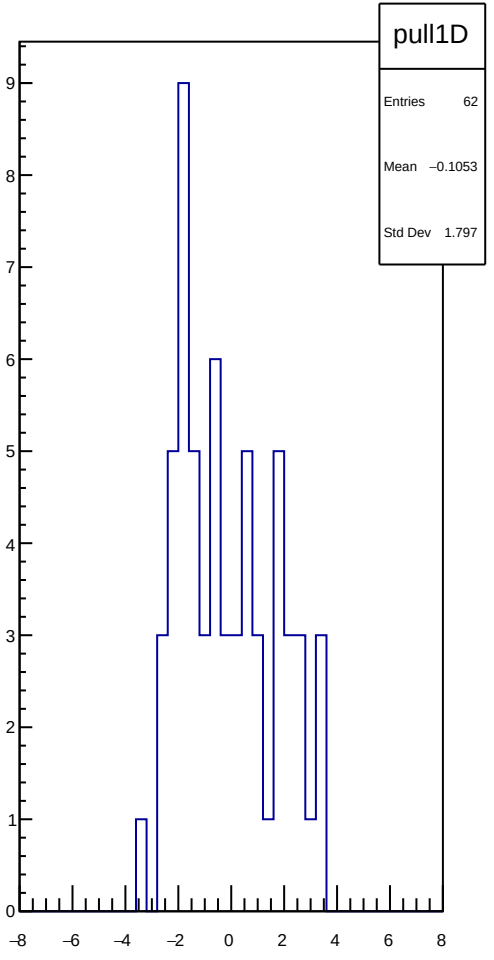

diff_bpm0i07X_rms vs run
χ² / ndf 4024 / 61
p0 1763 ± 1.629
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

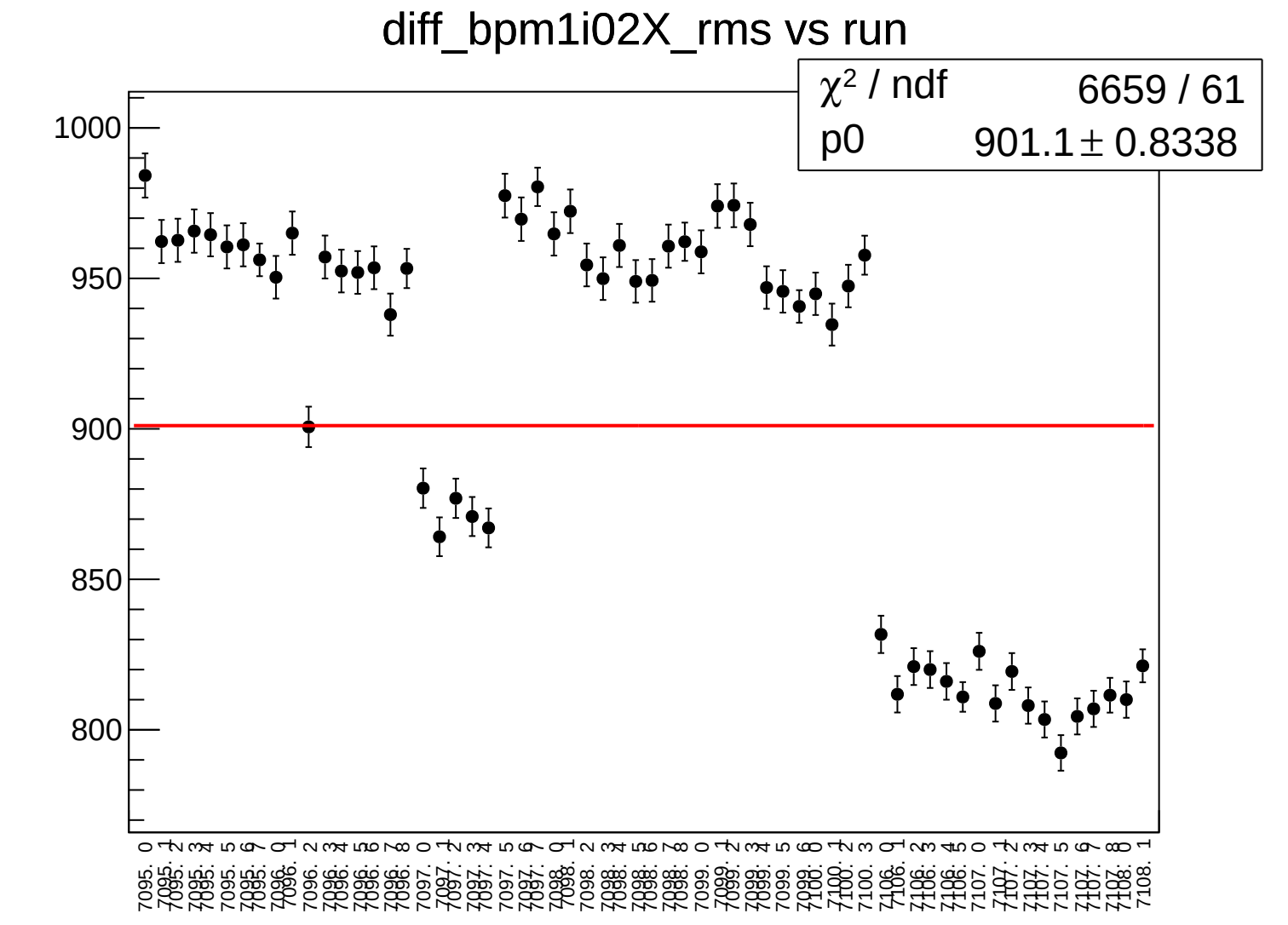

diff_bpm0i07Y_mean vs run
χ² / ndf 53.1 / 61
p0 5.522 ± 2.23
pull
Entries 62
Mean −765.2
Std Dev 774.4

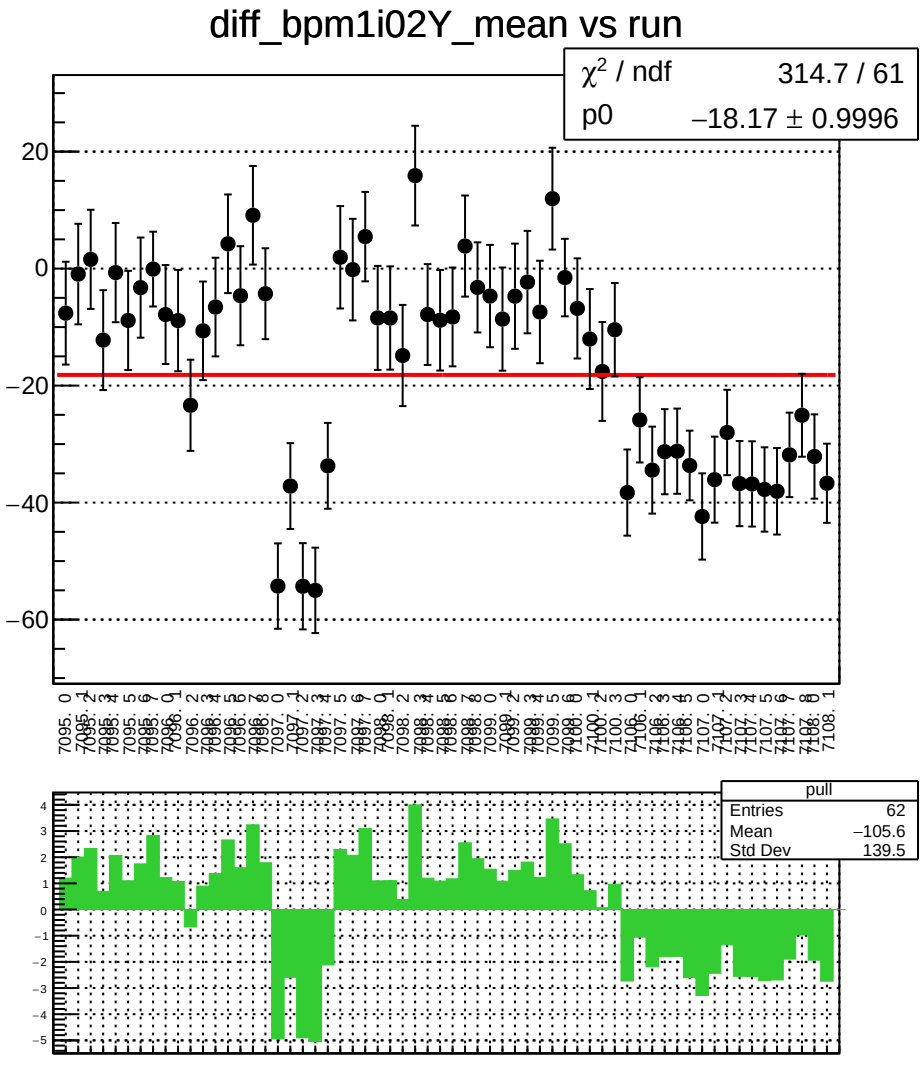

pull1D
Entries 62
Mean 0.001675
Std Dev 0.9255

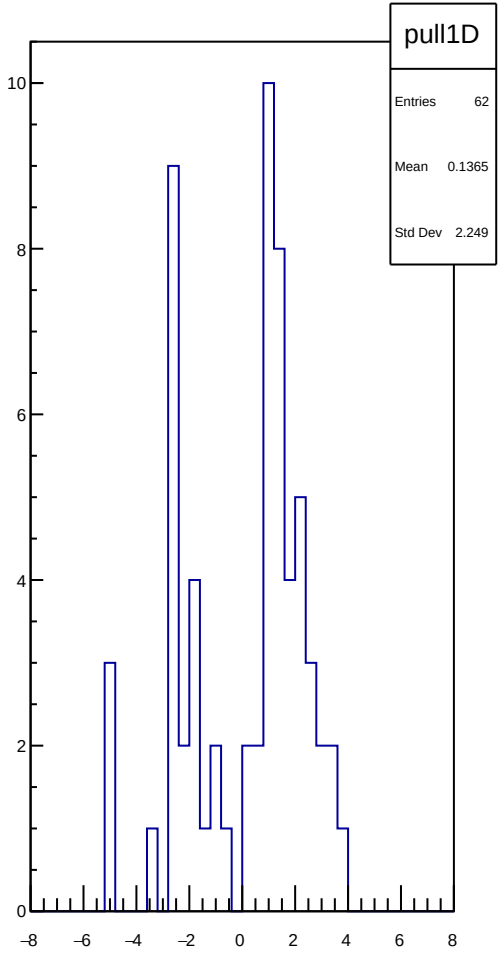

diff_bpm0i07Y_rms vs run
χ² / ndf 3482 / 61
p0 1706 ± 1.577
1950
1900
1850
1800
1750
1700
1650
1600
1550
1500

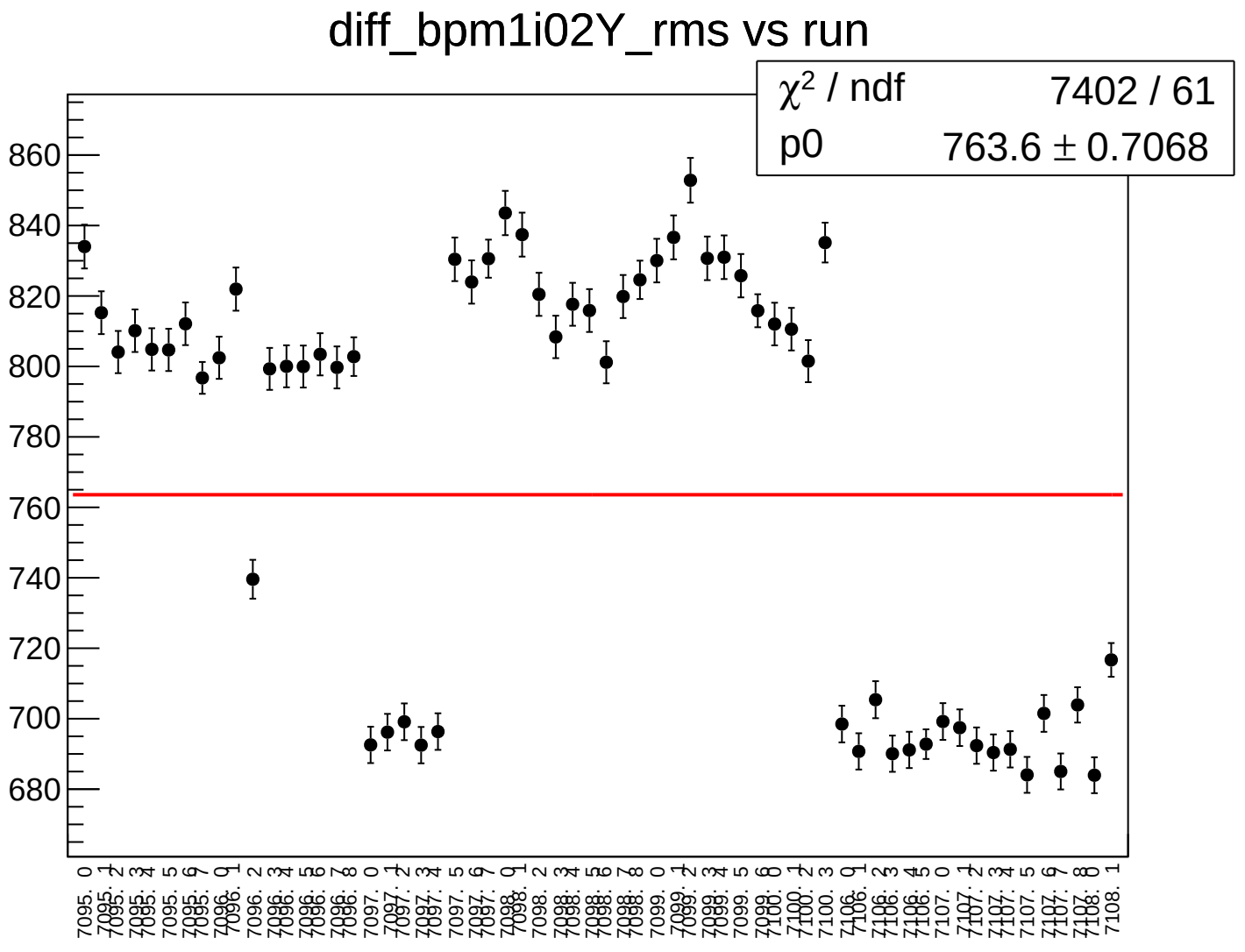

diff_bpm1i02X_mean vs run
χ² / ndf 200.8 / 61
p0 −37.74 ± 1.179
0
−20
−40
−60
−80
pull
Entries 62
Mean −108.8
Std Dev 143.8
3
2
1
0
−1
−2
−3

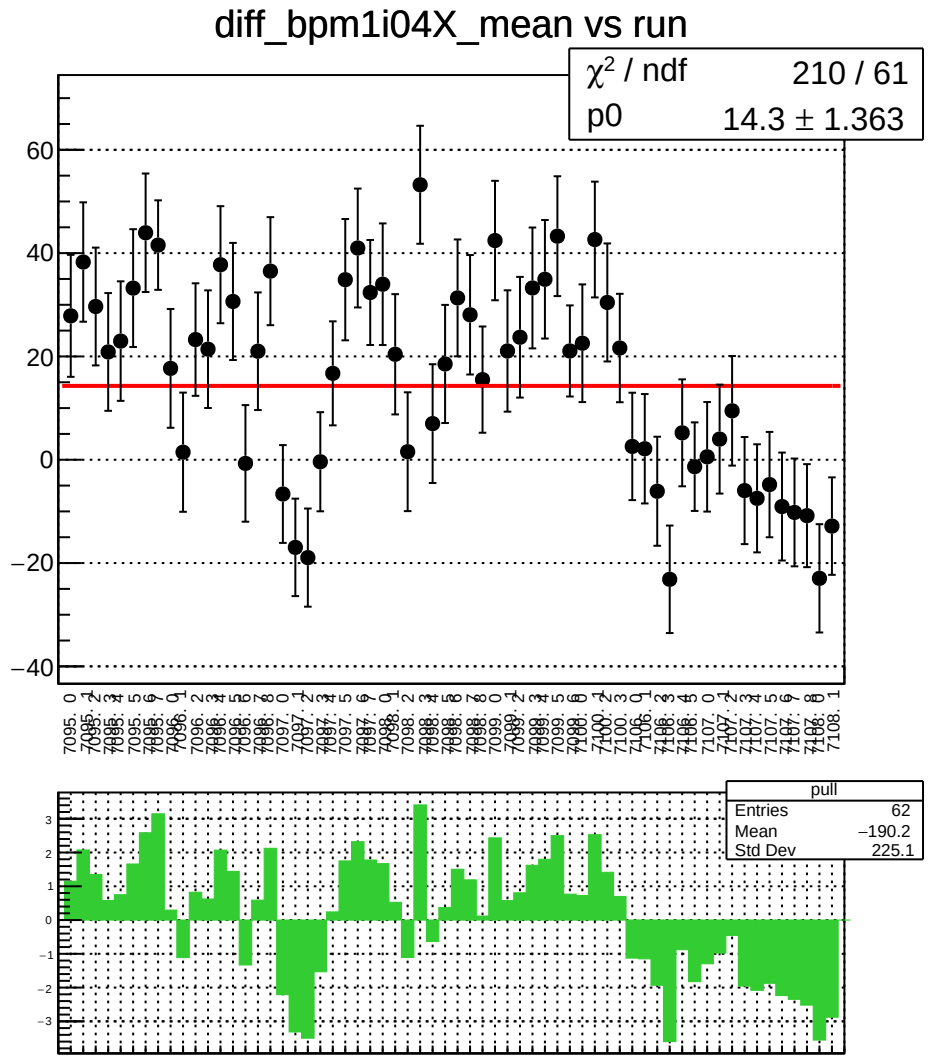

pull1D
Entries 62
Mean −0.1053
Std Dev 1.797
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

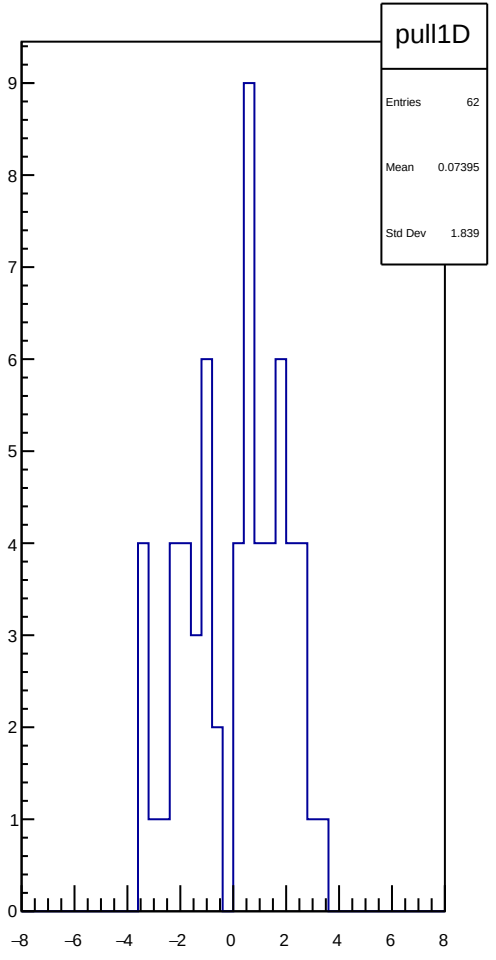

diff_bpm1i02X_rms vs run
χ² / ndf 6659 / 61
p0 901.1 ± 0.8338
1000
950
900
850
800
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

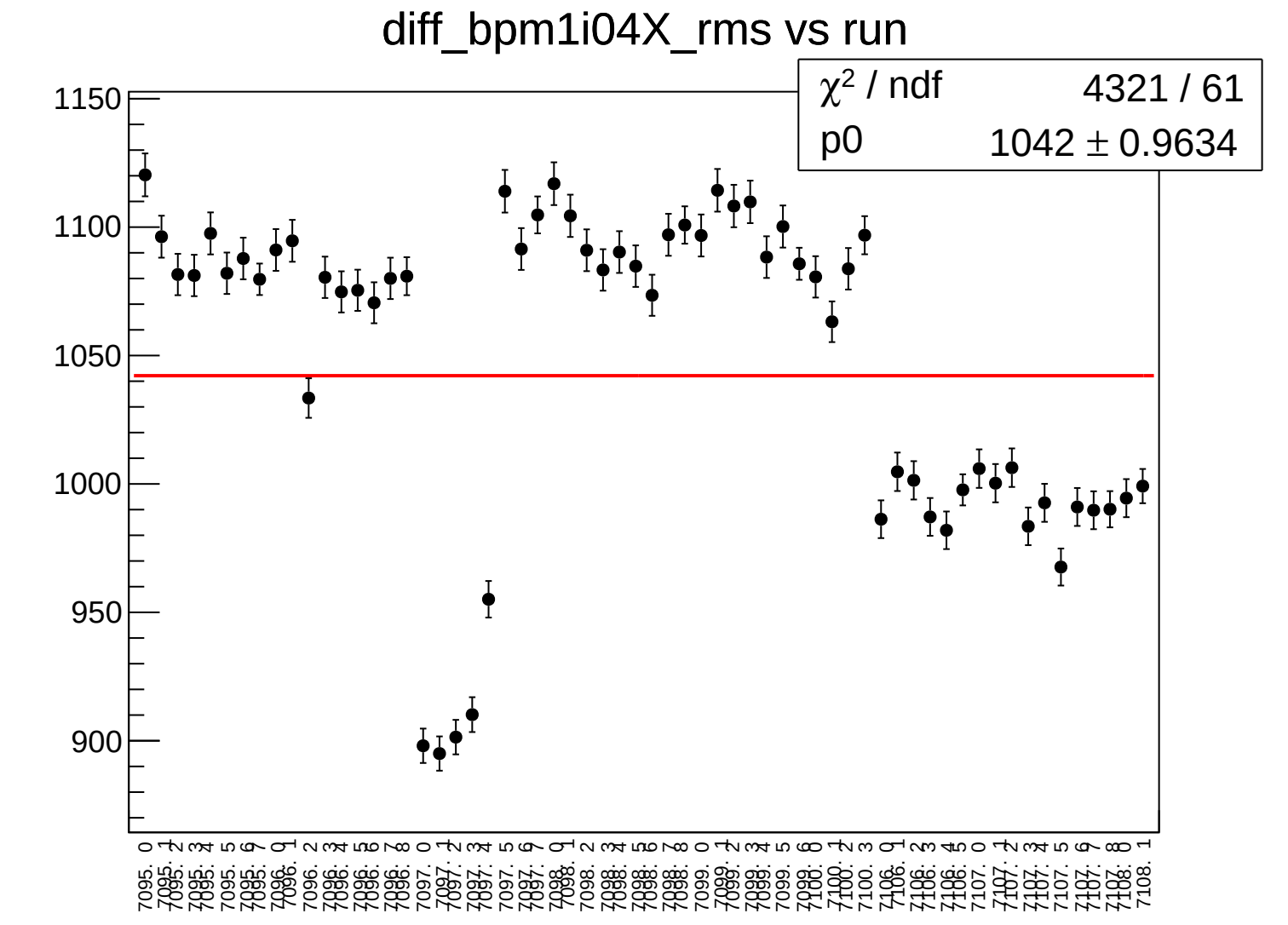

diff_bpm1i02Y_mean vs run
χ² / ndf 314.7 / 61
p0 −18.17 ± 0.9996
pull
Entries 62
Mean −105.6
Std Dev 139.5

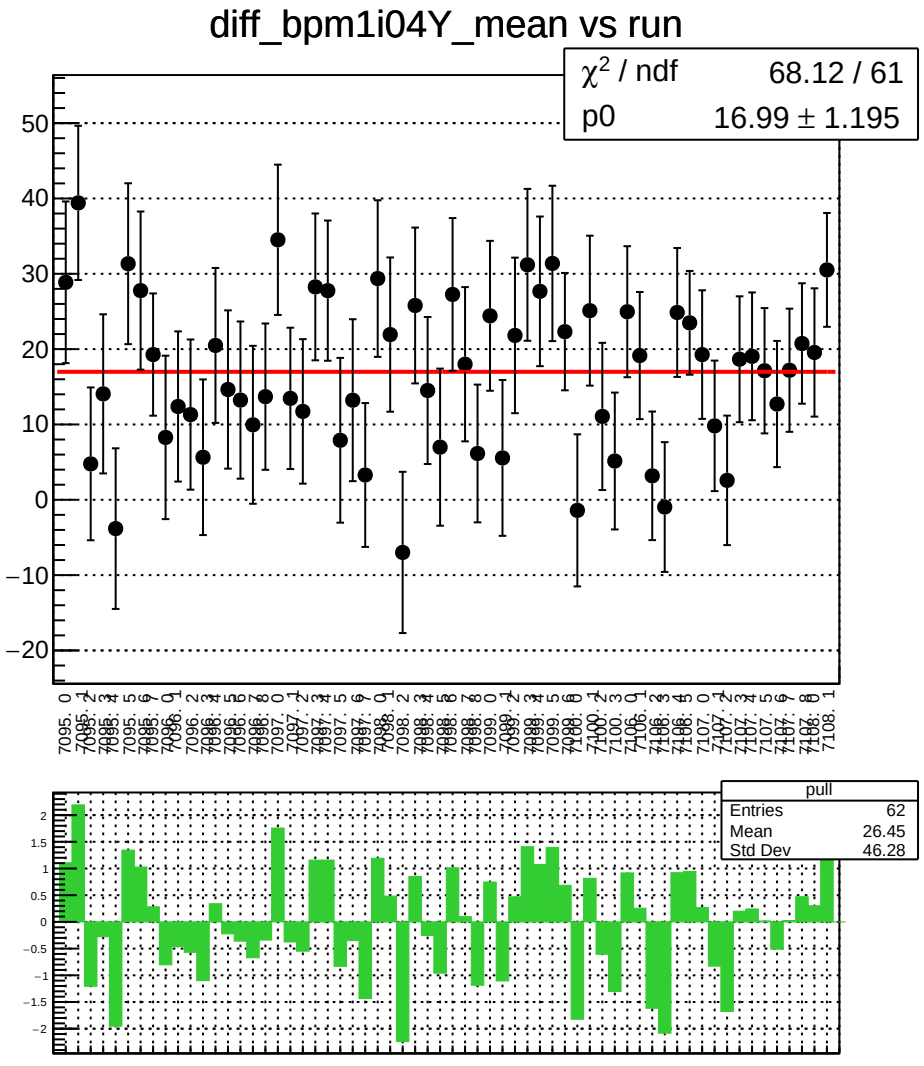

pull1D
Entries 62
Mean 0.1365
Std Dev 2.249

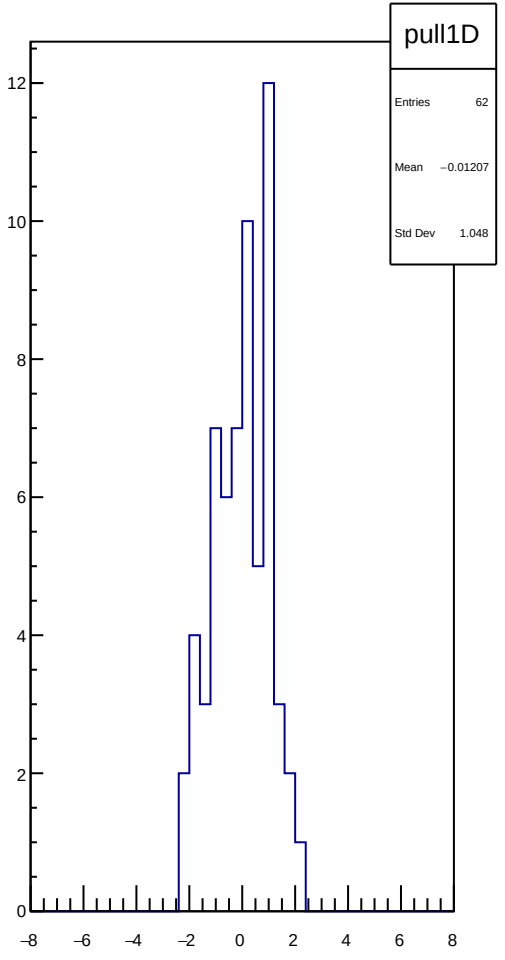

diff_bpm1i02Y_rms vs run
χ² / ndf 7402 / 61
p0 763.6 ± 0.7068
860
840
820
800
780
760
740
720
700
680
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

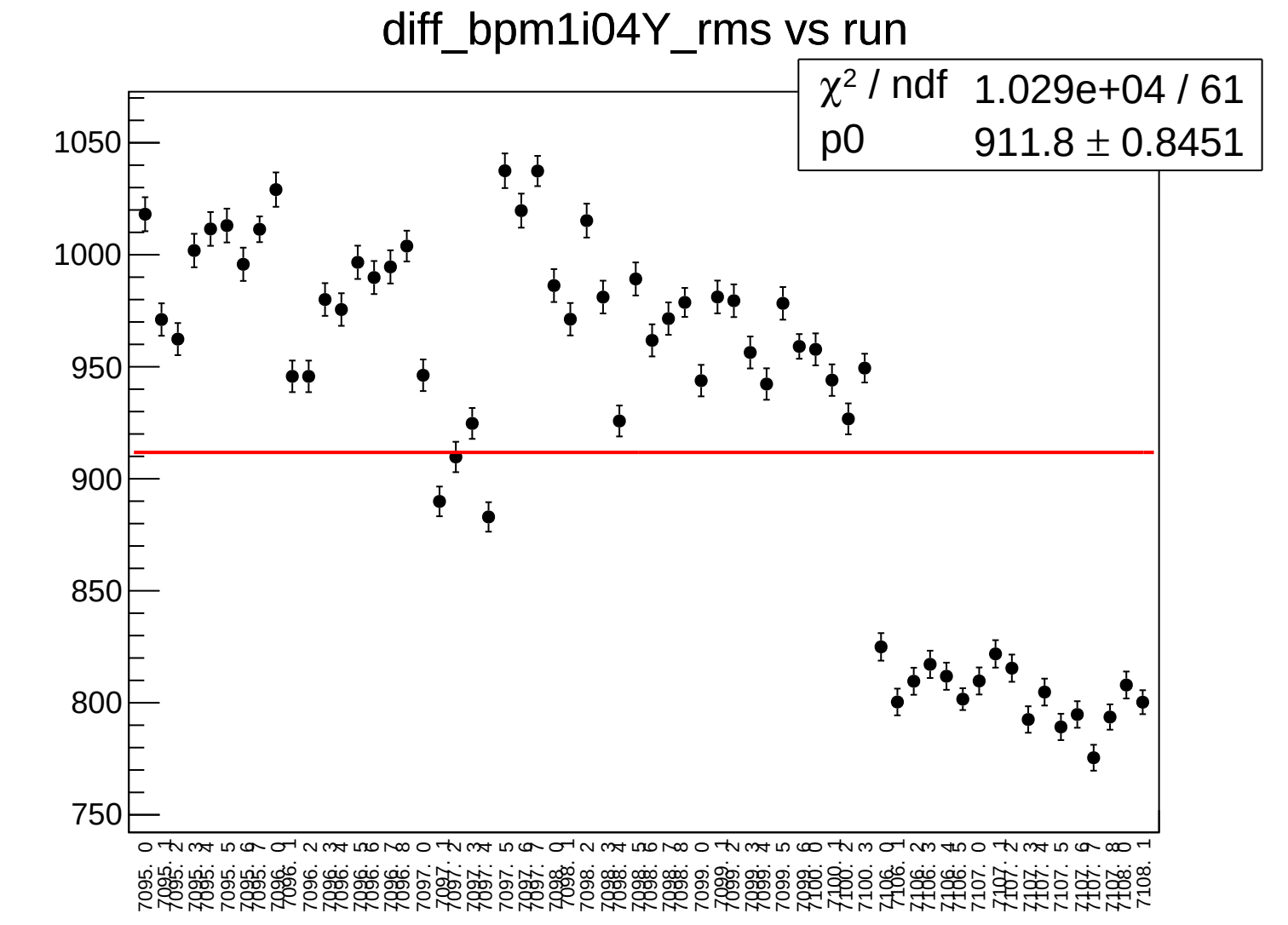

diff_bpm1i04X_mean vs run
χ² / ndf 210 / 61
p0 14.3 ± 1.363
pull
Entries 62
Mean −190.2
Std Dev 225.1

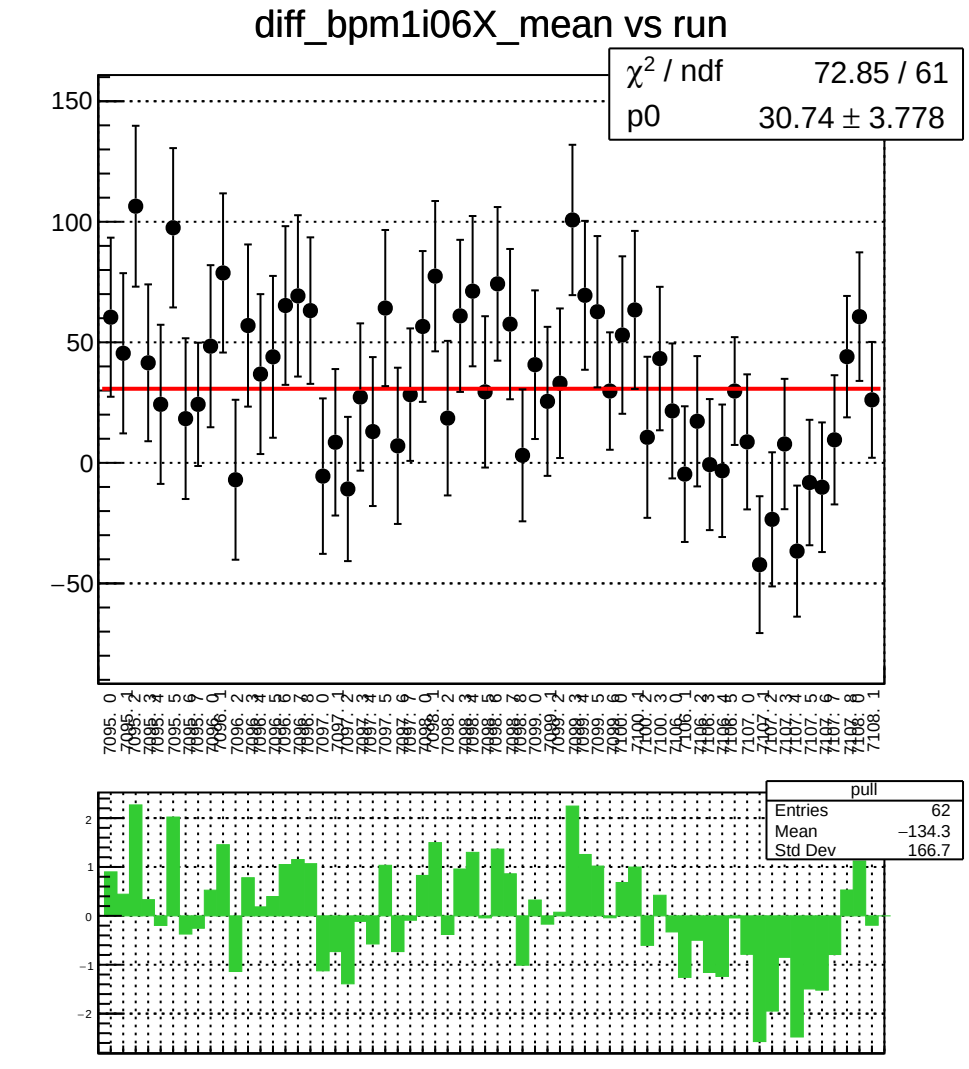

pull1D
Entries 62
Mean 0.07395
Std Dev 1.839

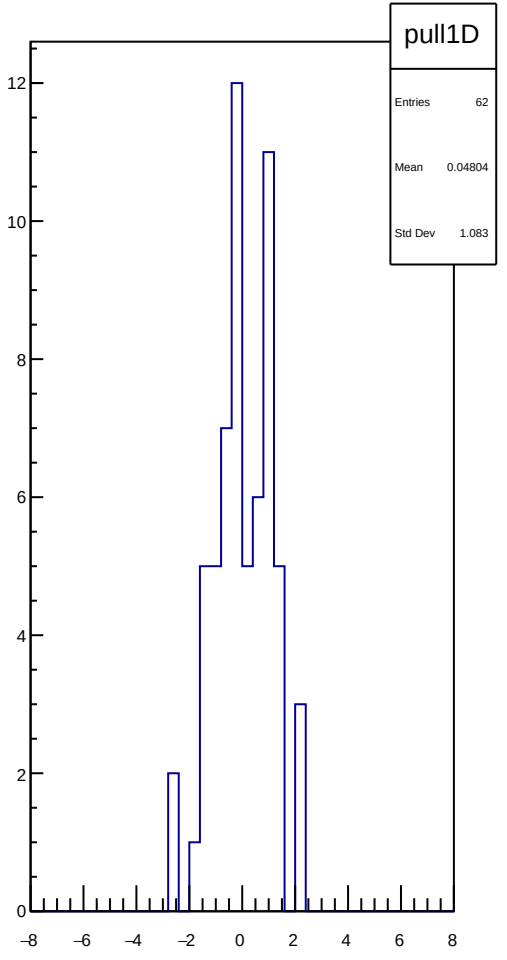

diff_bpm1i04X_rms vs run
χ² / ndf 4321 / 61
p0 1042 ± 0.9634
1150
1100
1050
1000
950
900

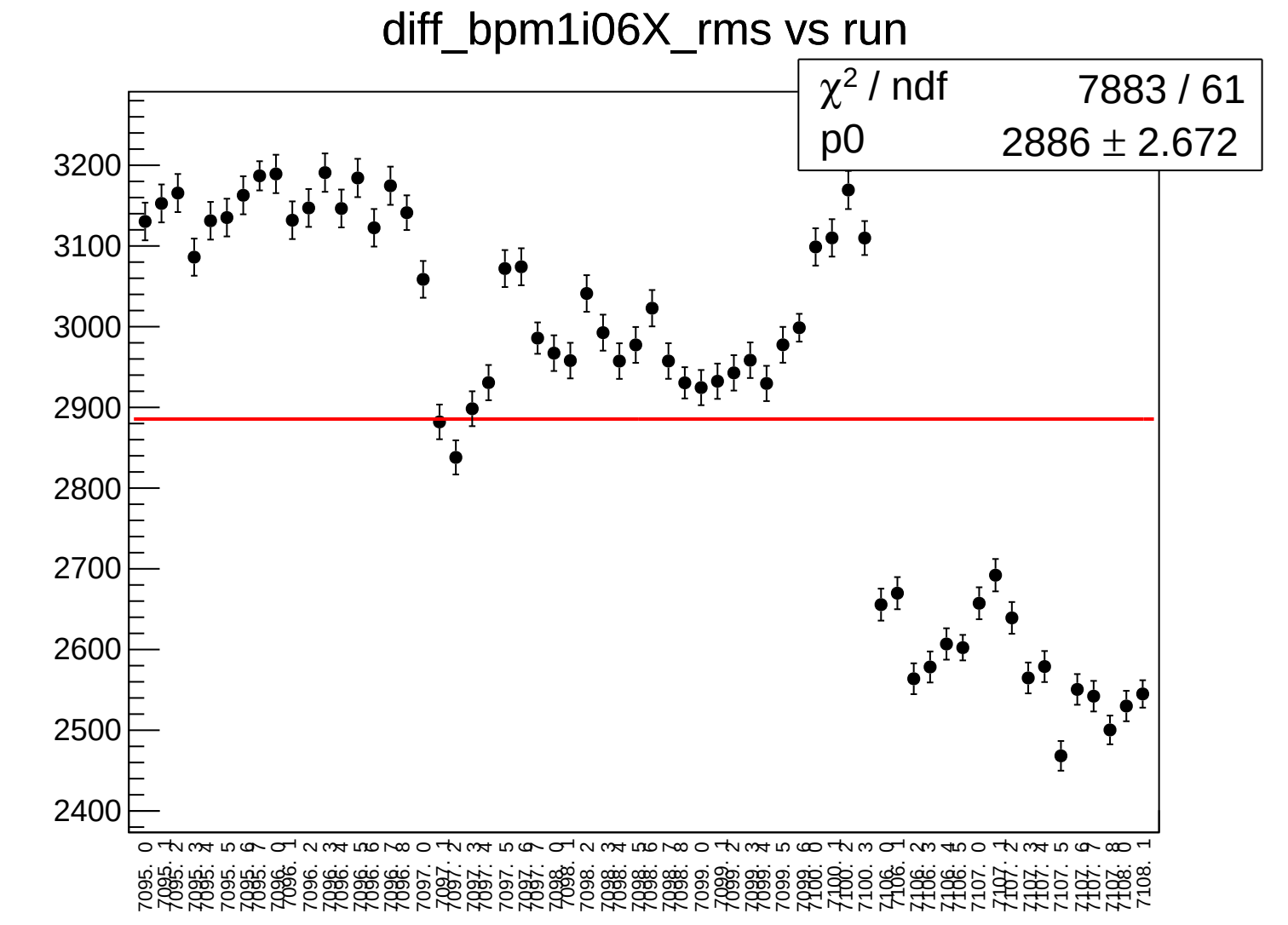

diff_bpm1i04Y_mean vs run
χ^2 / ndf 68.12 / 61
p0 16.99 ± 1.195
pull
Entries 62
Mean 26.45
Std Dev 46.28

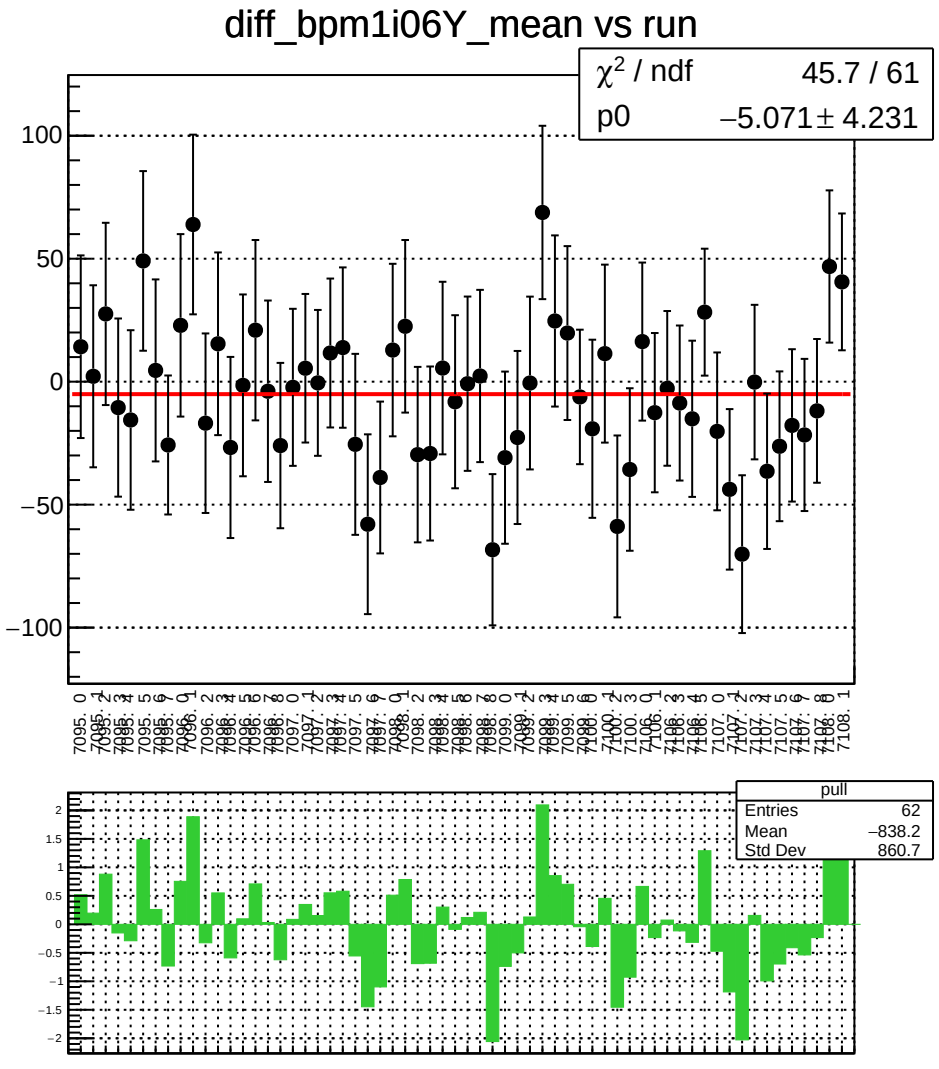

pull1D
Entries 62
Mean −0.01207
Std Dev 1.048

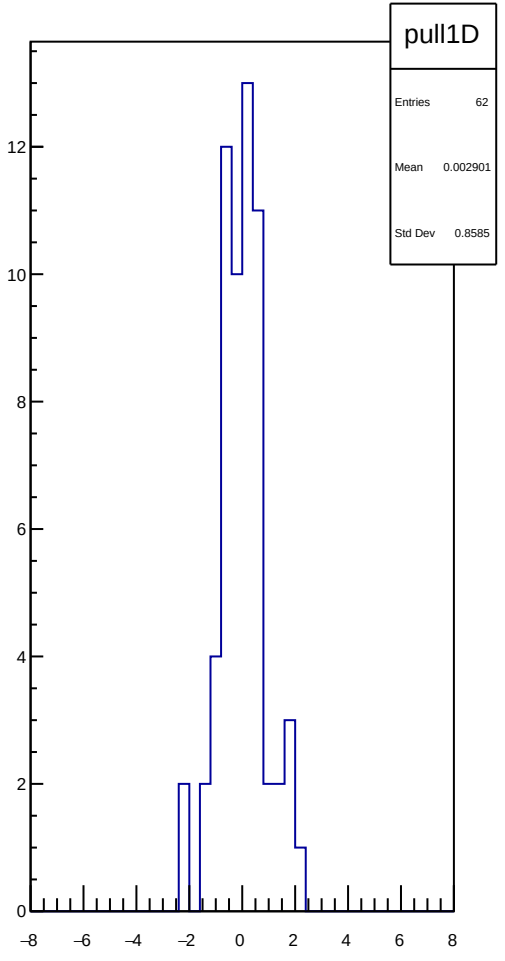

diff_bpm1i04Y_rms vs run
χ² / ndf 1.029e+04 / 61
p0 911.8 ± 0.8451
1050
1000
950
900
850
800
750

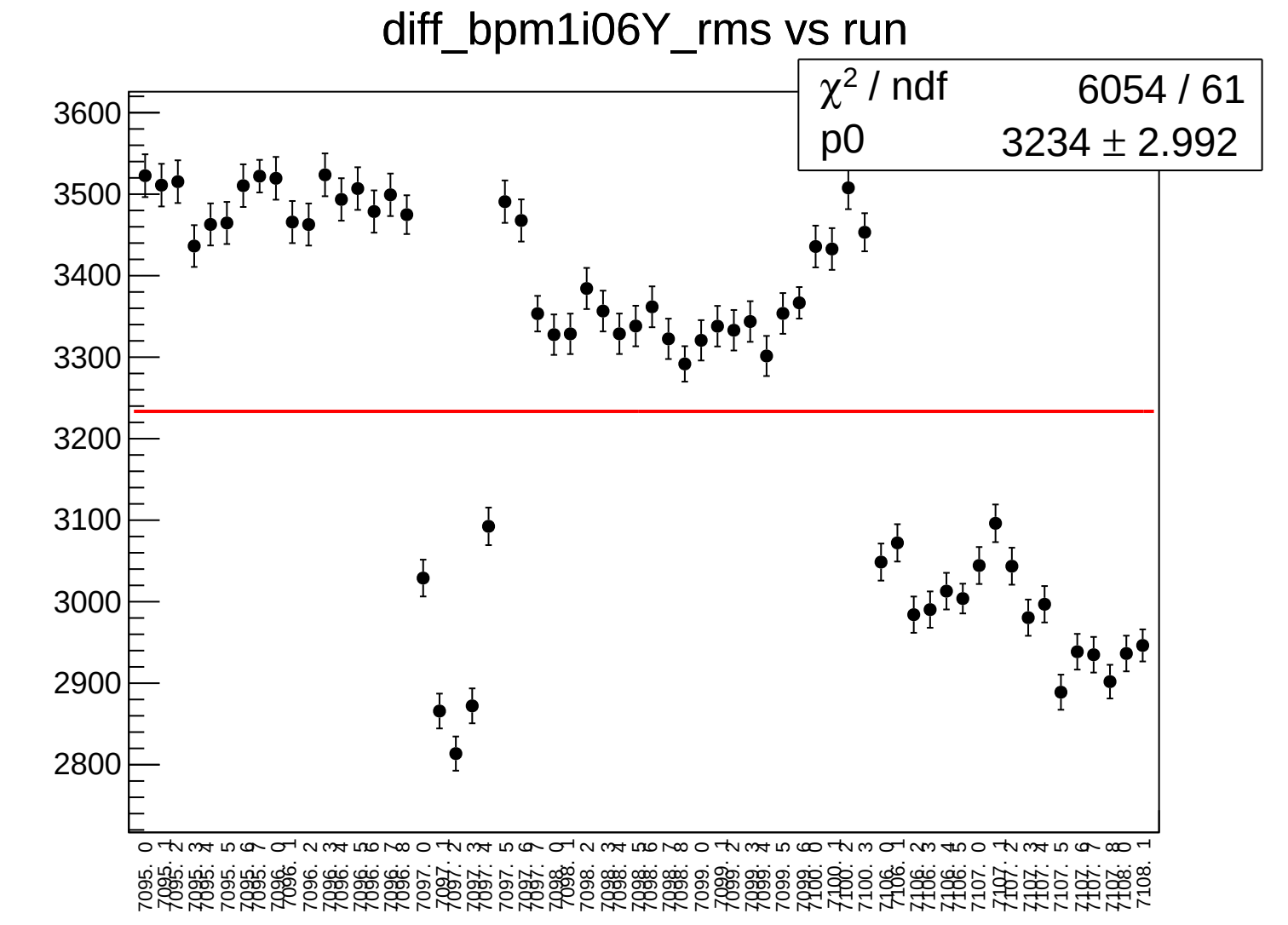

diff_bpm1i06X_mean vs run
χ² / ndf 72.85 / 61
p0 30.74 ± 3.778
150
100
50
0
−50
pull
Entries 62
Mean −134.3
Std Dev 166.7
2
1
0
−1
−2

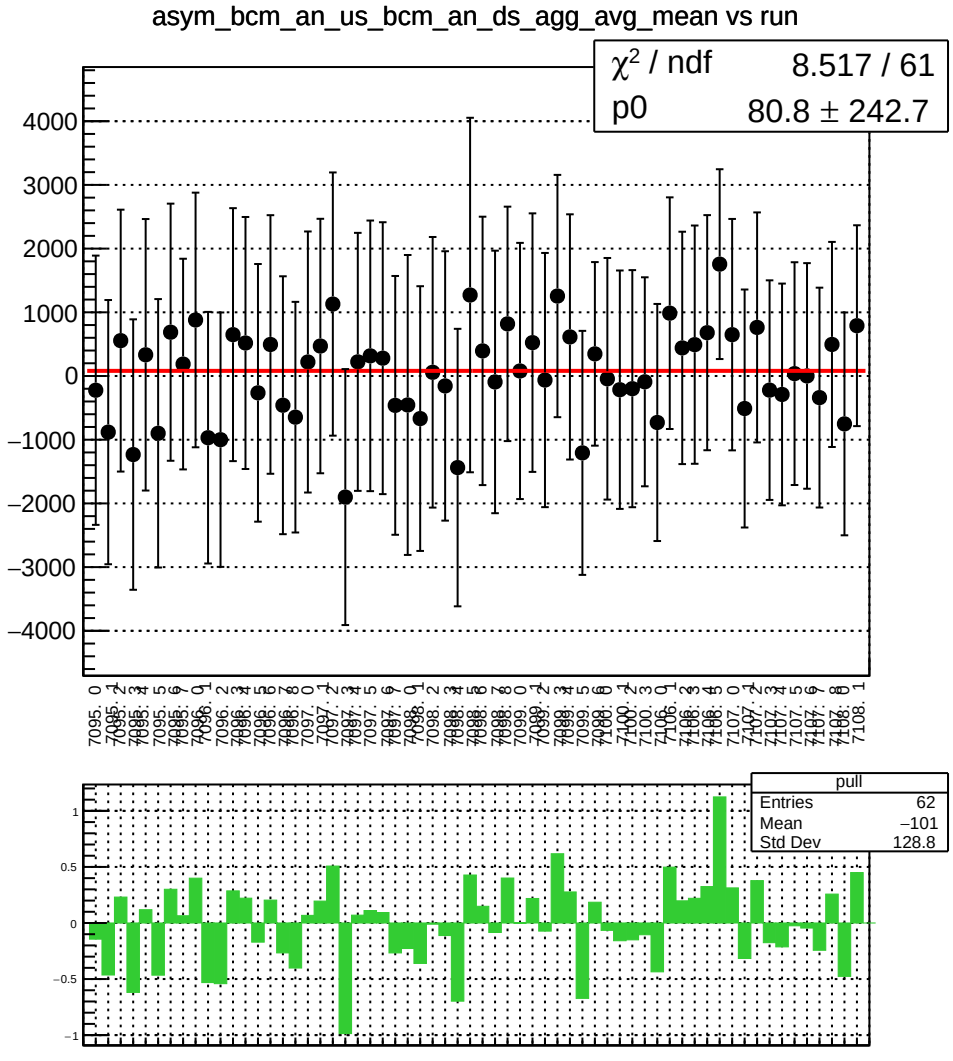

pull1D
Entries 62
Mean 0.04804
Std Dev 1.083
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

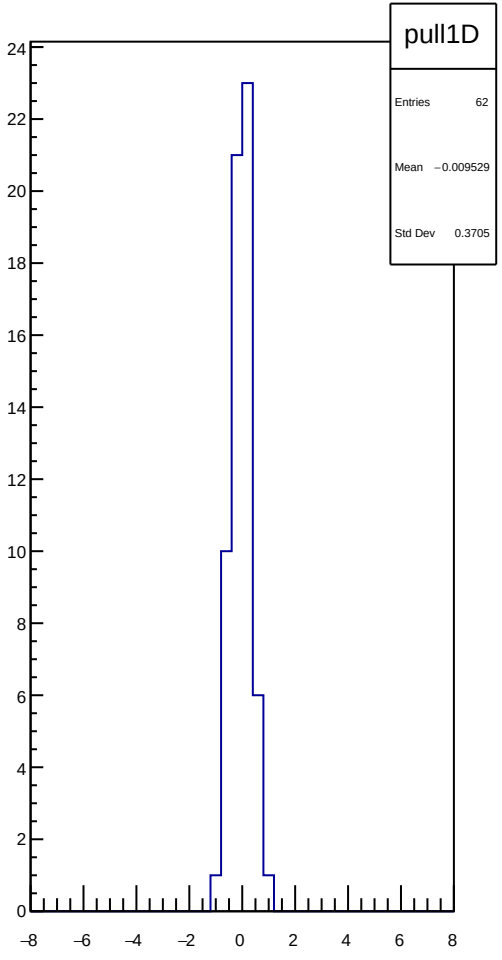

diff_bpm1i06X_rms vs run
χ² / ndf 7883 / 61
p0 2886 ± 2.672
3200
3100
3000
2900
2800
2700
2600
2500
2400

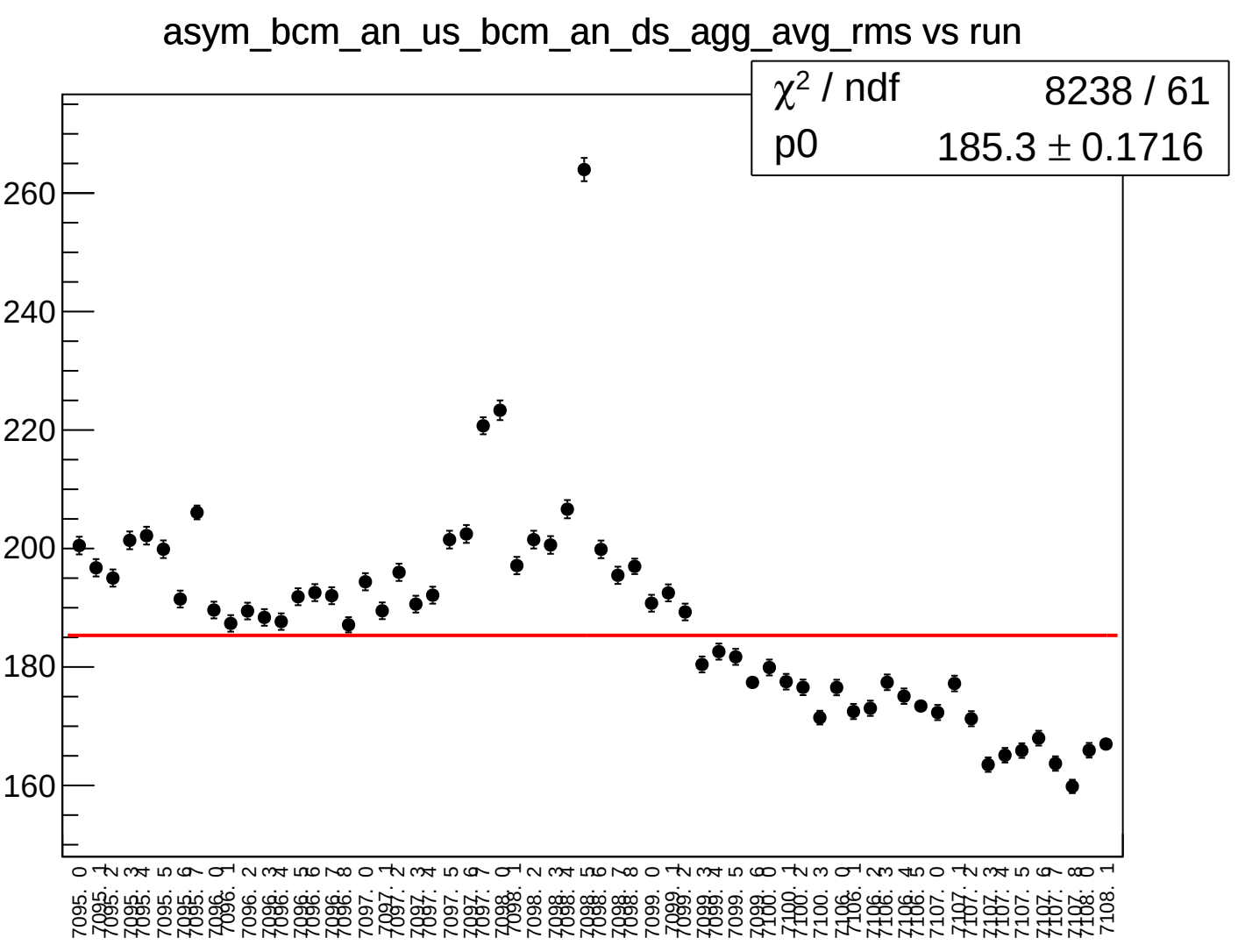

diff_bpm1i06Y_mean vs run
χ² / ndf 45.7 / 61
p0 −5.071 ± 4.231
100
50
0
−50
−100
pull
Entries 62
Mean −838.2
Std Dev 860.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

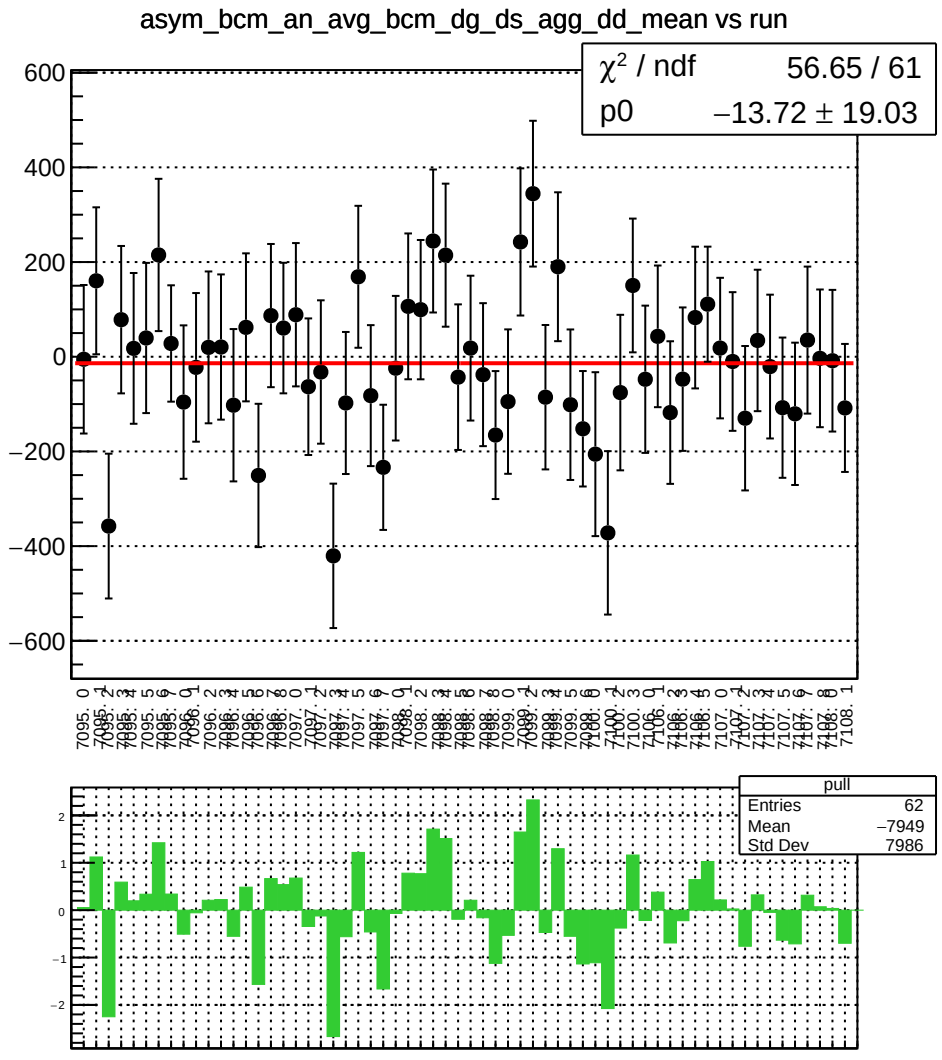

pull1D
Entries 62
Mean 0.002901
Std Dev 0.8585
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

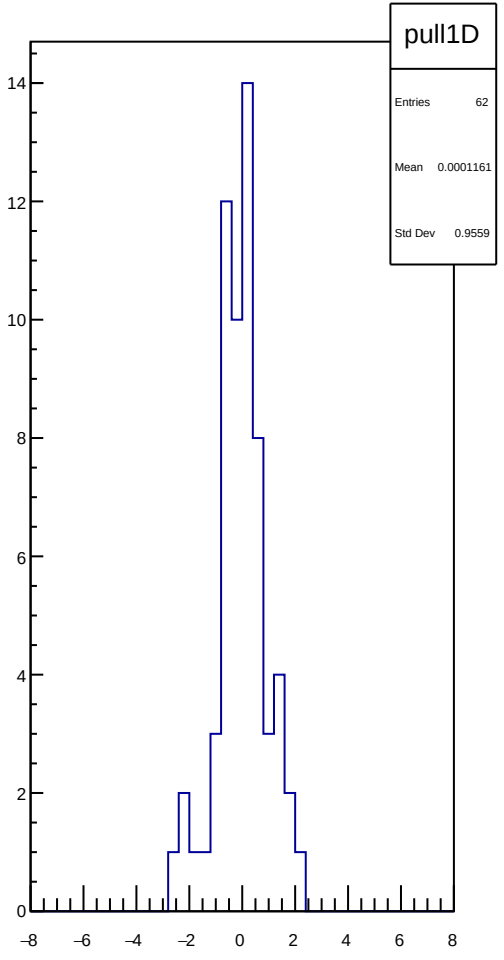

diff_bpm1i06Y_rms vs run
χ² / ndf 6054 / 61
p0 3234 ± 2.992
3600
3500
3400
3300
3200
3100
3000
2900
2800

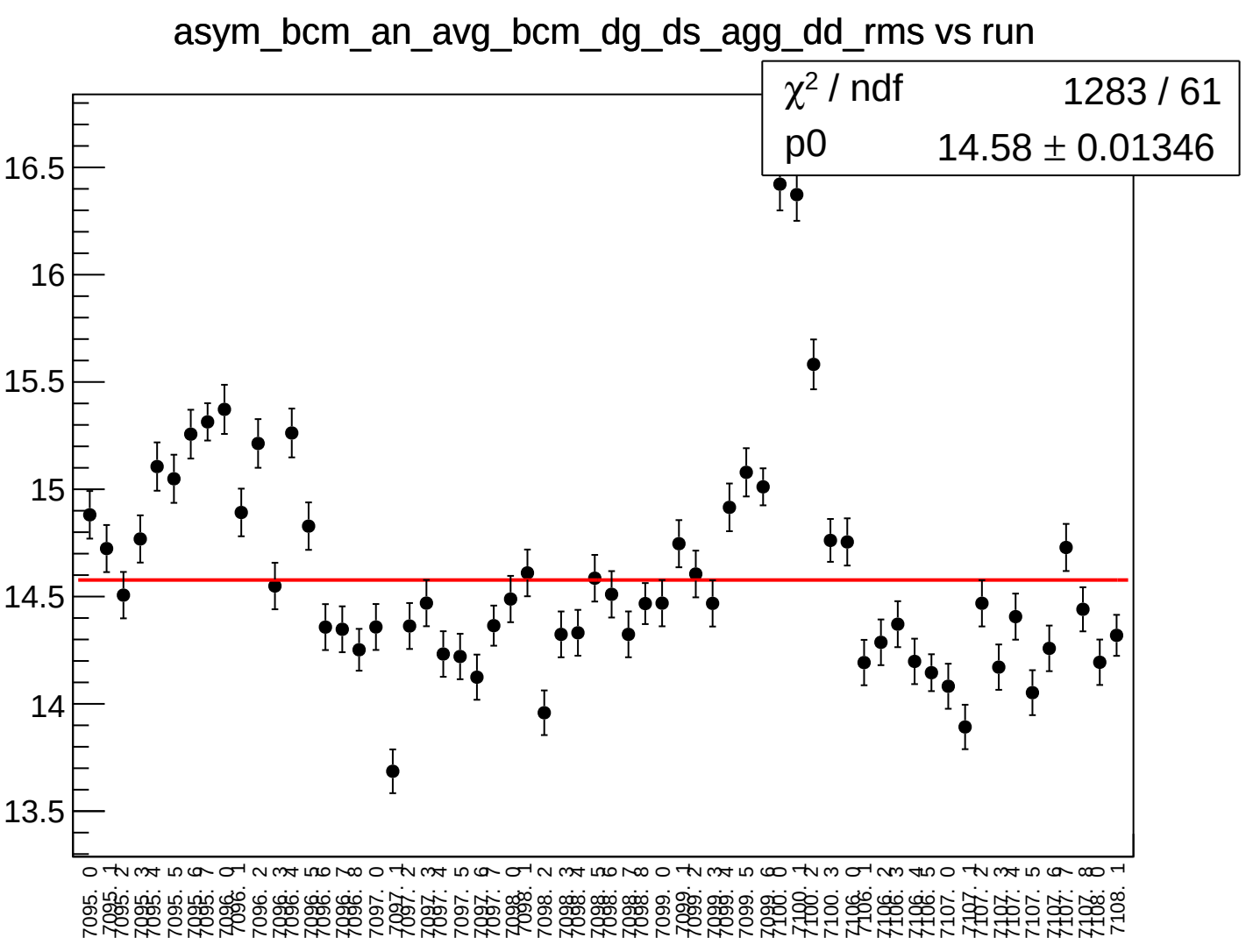

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.517 / 61
p0 80.8 ± 242.7
pull
Entries 62
Mean −101
Std Dev 128.8

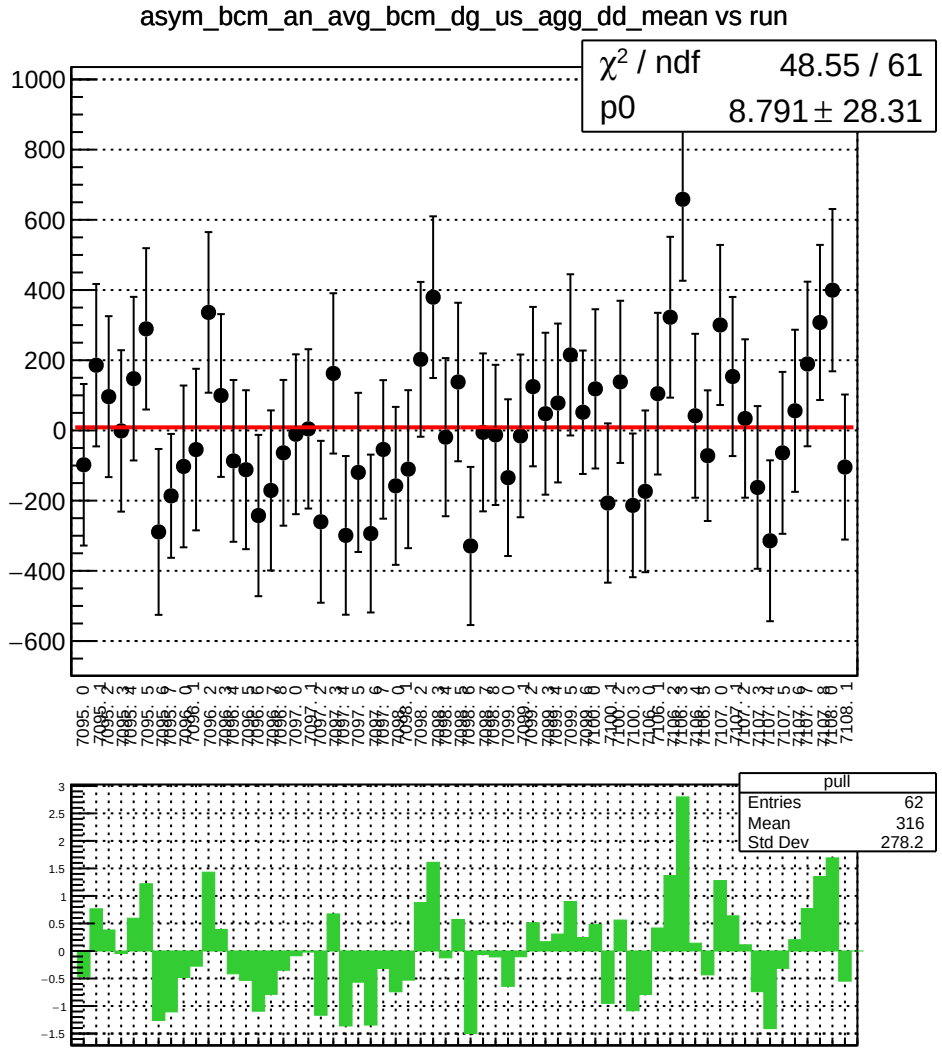

pull1D
Entries 62
Mean −0.009529
Std Dev 0.3705

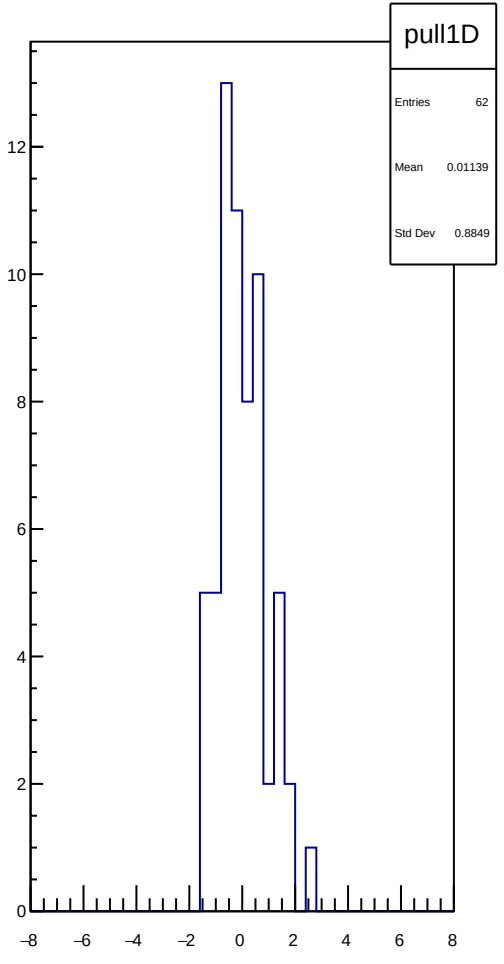

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8238 / 61
p0 185.3 ± 0.1716
260
240
220
200
180
160

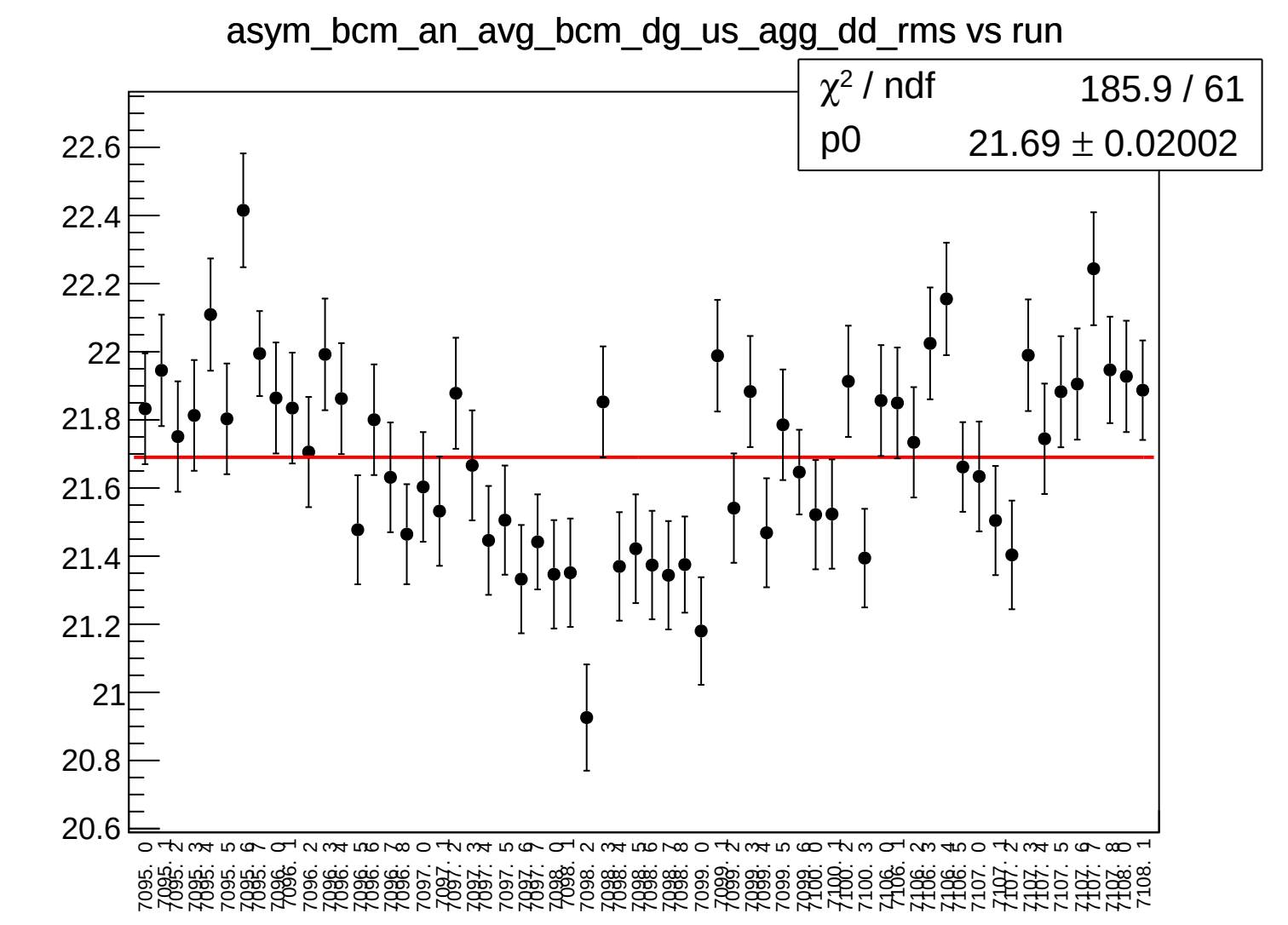

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 56.65 / 61
p0 −13.72 ± 19.03
pull
Entries 62
Mean −7949
Std Dev 7986

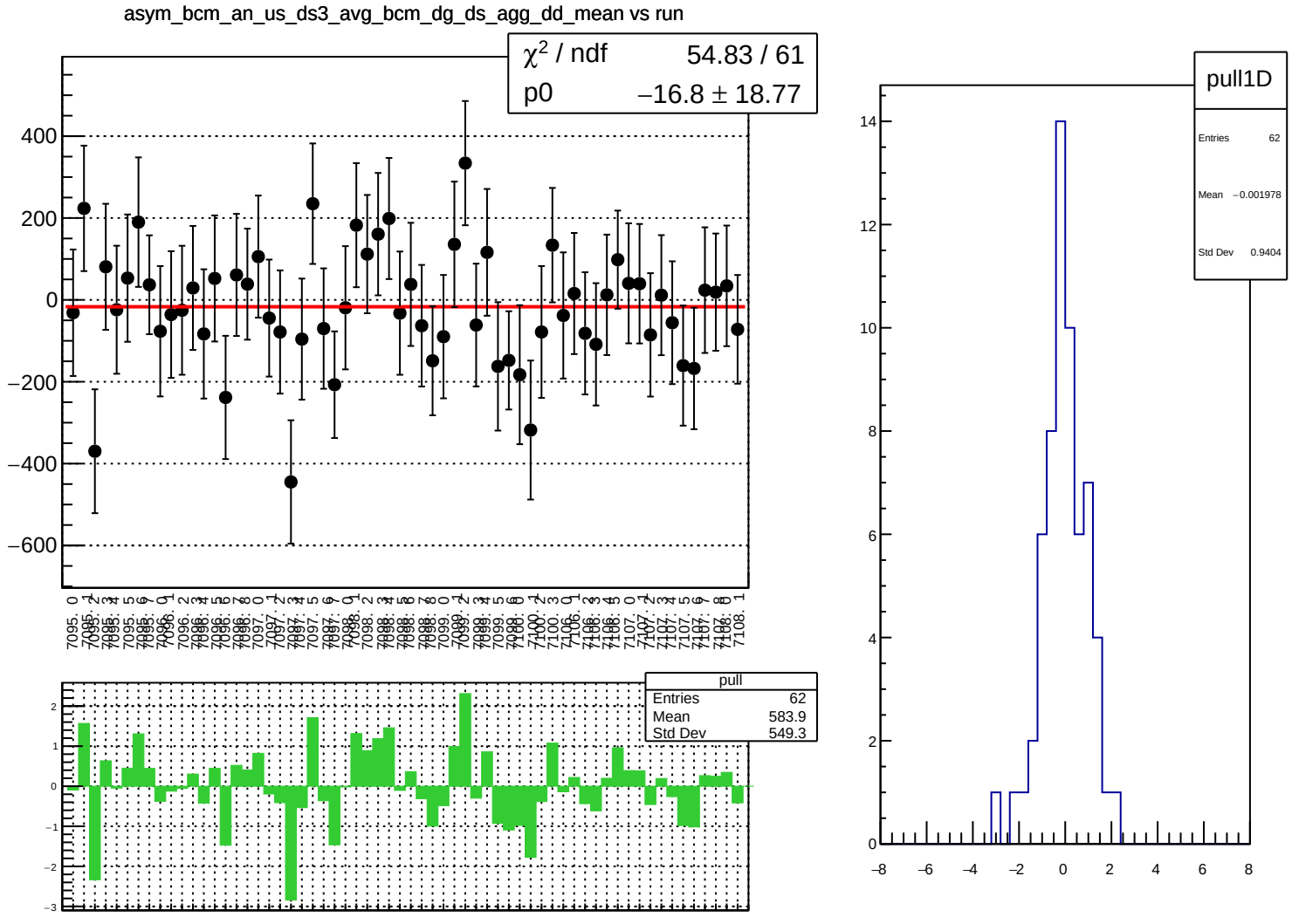

pull1D
Entries 62
Mean 0.0001161
Std Dev 0.9559

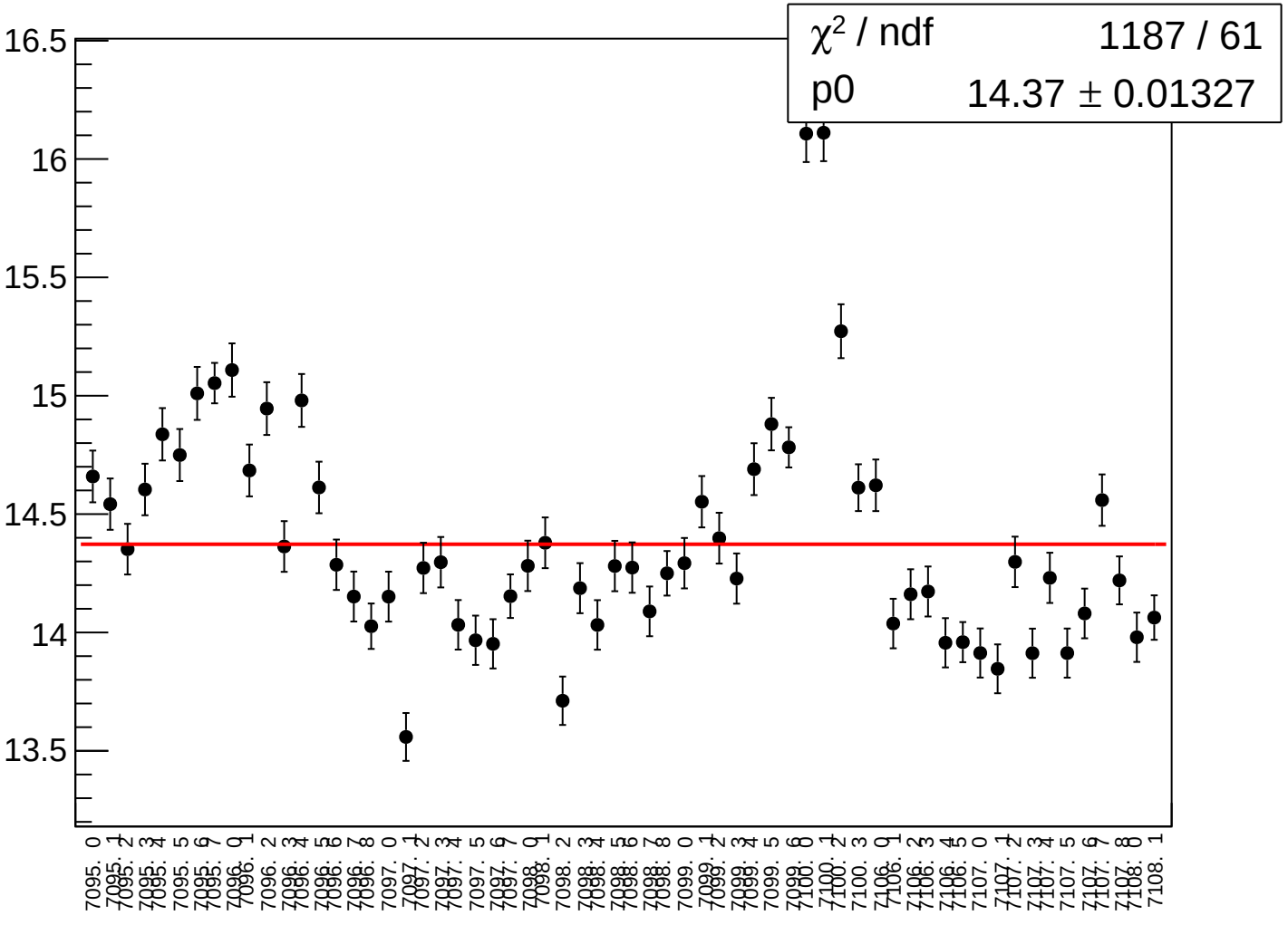

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1283 / 61
p0 14.58 ± 0.01346
16.5
16
15.5
15
14.5
14
13.5

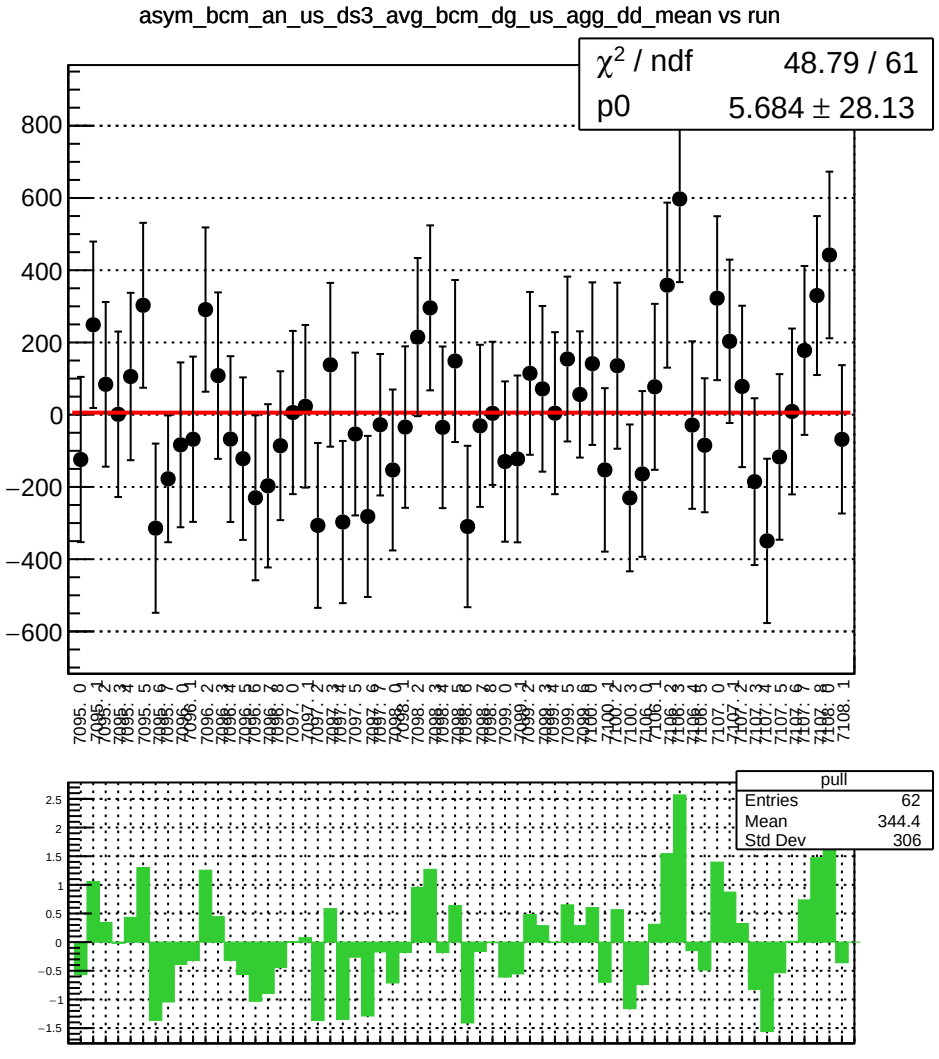

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 48.55 / 61
p0 8.791 ± 28.31
pull
Entries 62
Mean 316
Std Dev 278.2

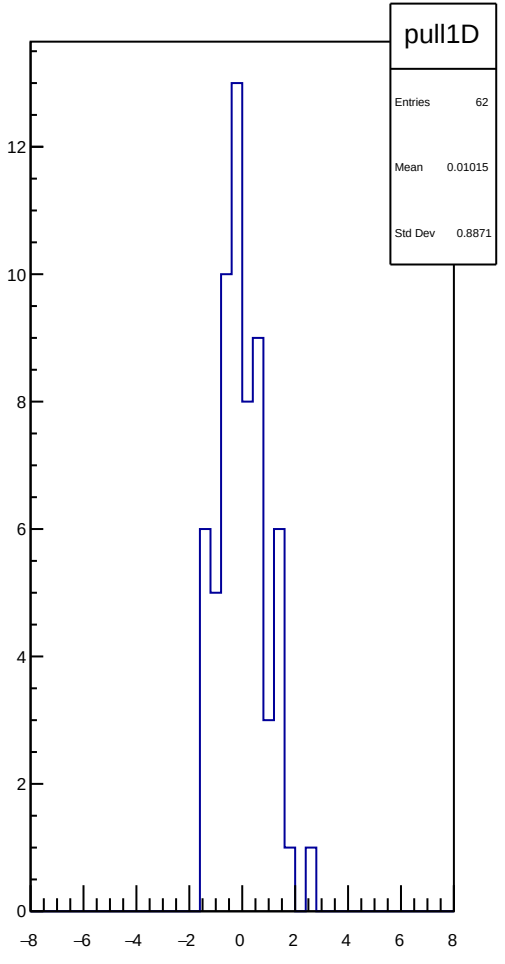

pull1D
Entries 62
Mean 0.01139
Std Dev 0.8849

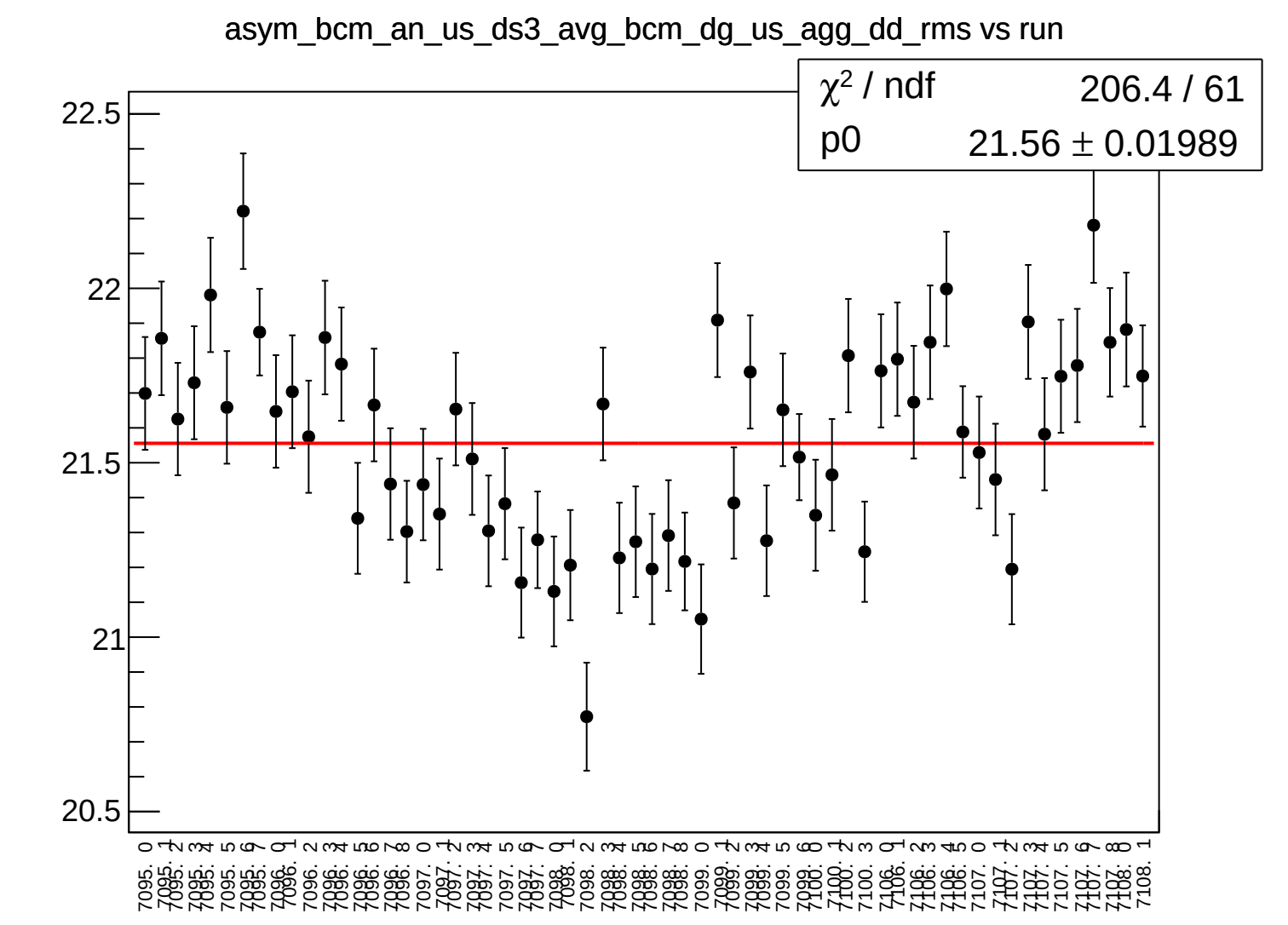

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 185.9 / 61
p0 21.69 ± 0.02002
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.83 / 61
p0 −16.8 ± 18.77
pull
Entries 62
Mean 583.9
Std Dev 549.3
pull1D
Entries 62
Mean −0.001978
Std Dev 0.9404


asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1187 / 61
p0 14.37 ± 0.01327
16.5
16
15.5
15
14.5
14
13.5


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 48.79 / 61
p0 5.684 ± 28.13
pull
Entries 62
Mean 344.4
Std Dev 306


pull1D
Entries 62
Mean 0.01015
Std Dev 0.8871


asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 206.4 / 61
p0 21.56 ± 0.01989
22.5
22
21.5
21
20.5
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
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7096. 7
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7097. 6
7097. 7
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7098. 4
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7100. 3
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7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
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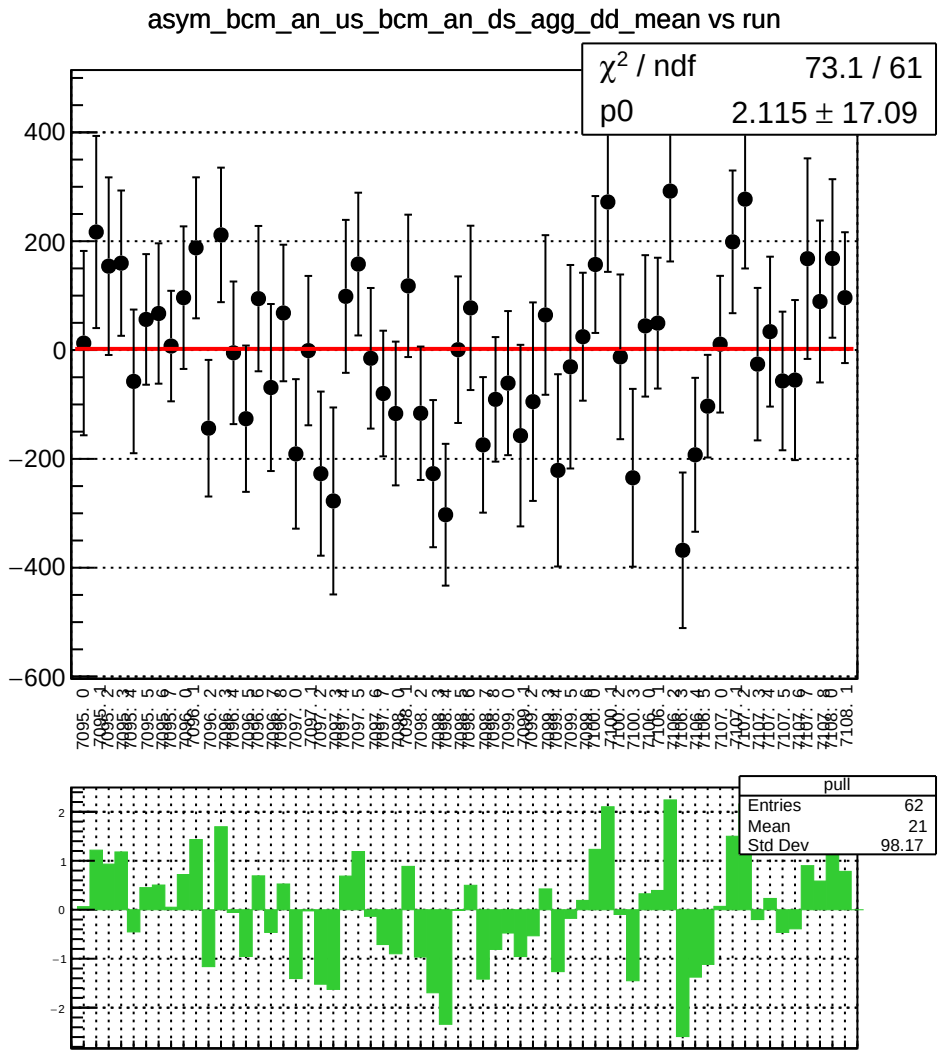
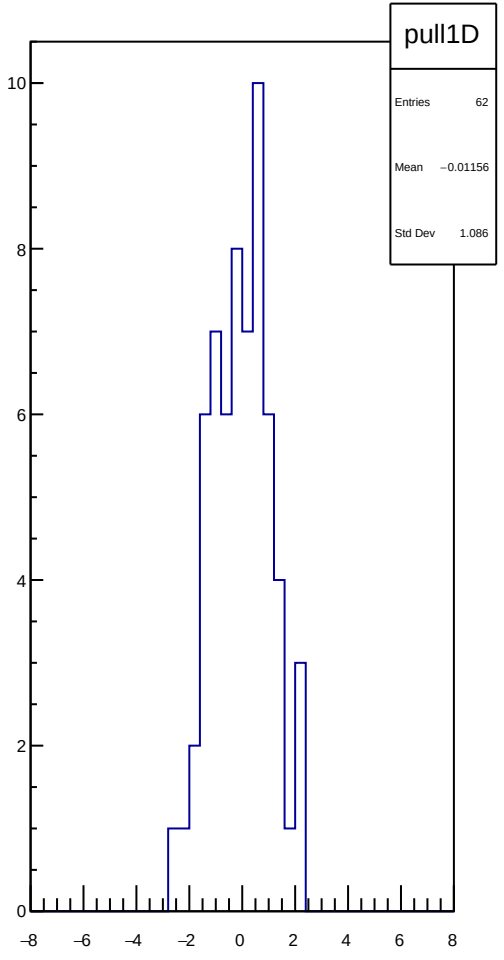
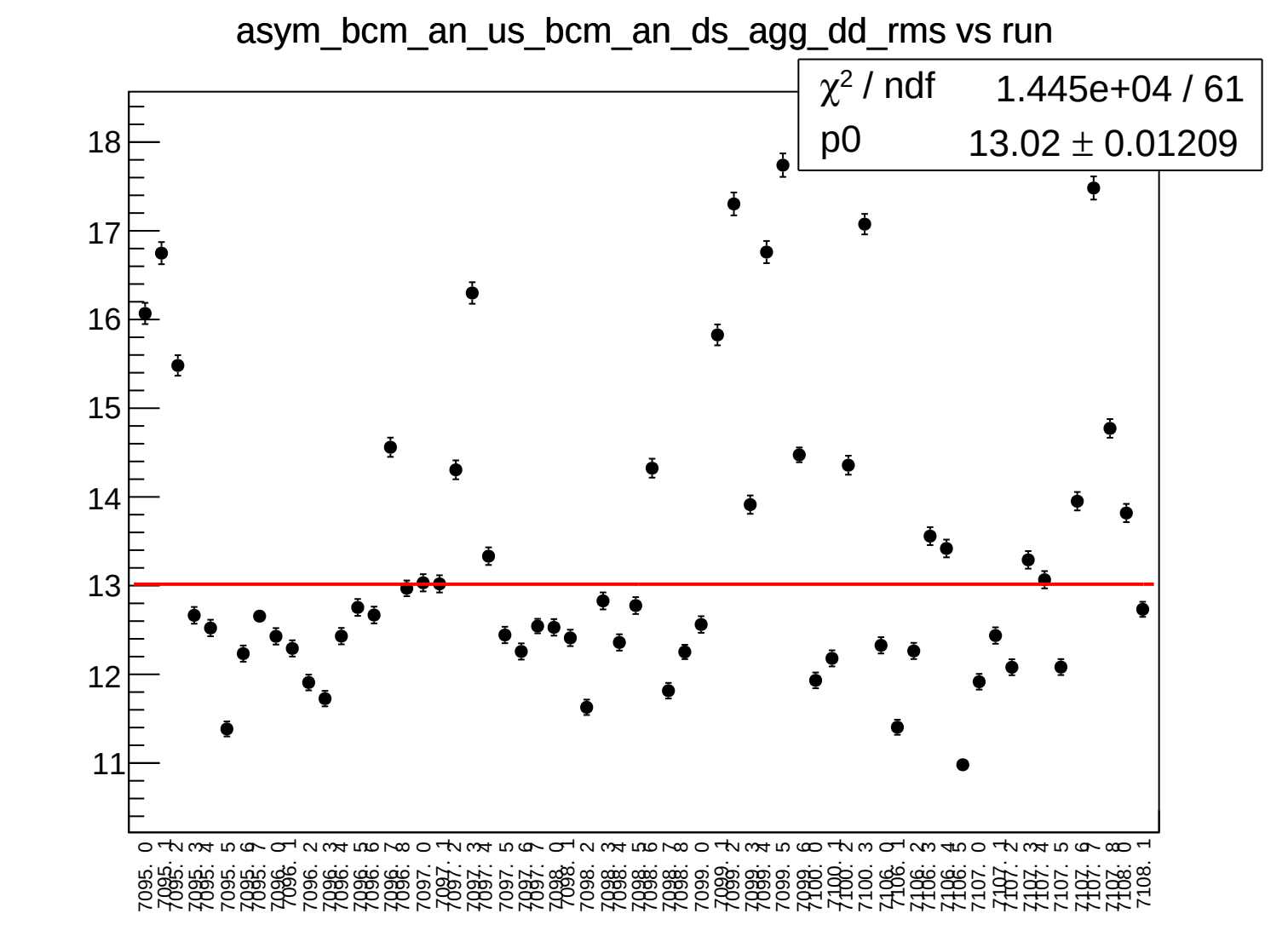
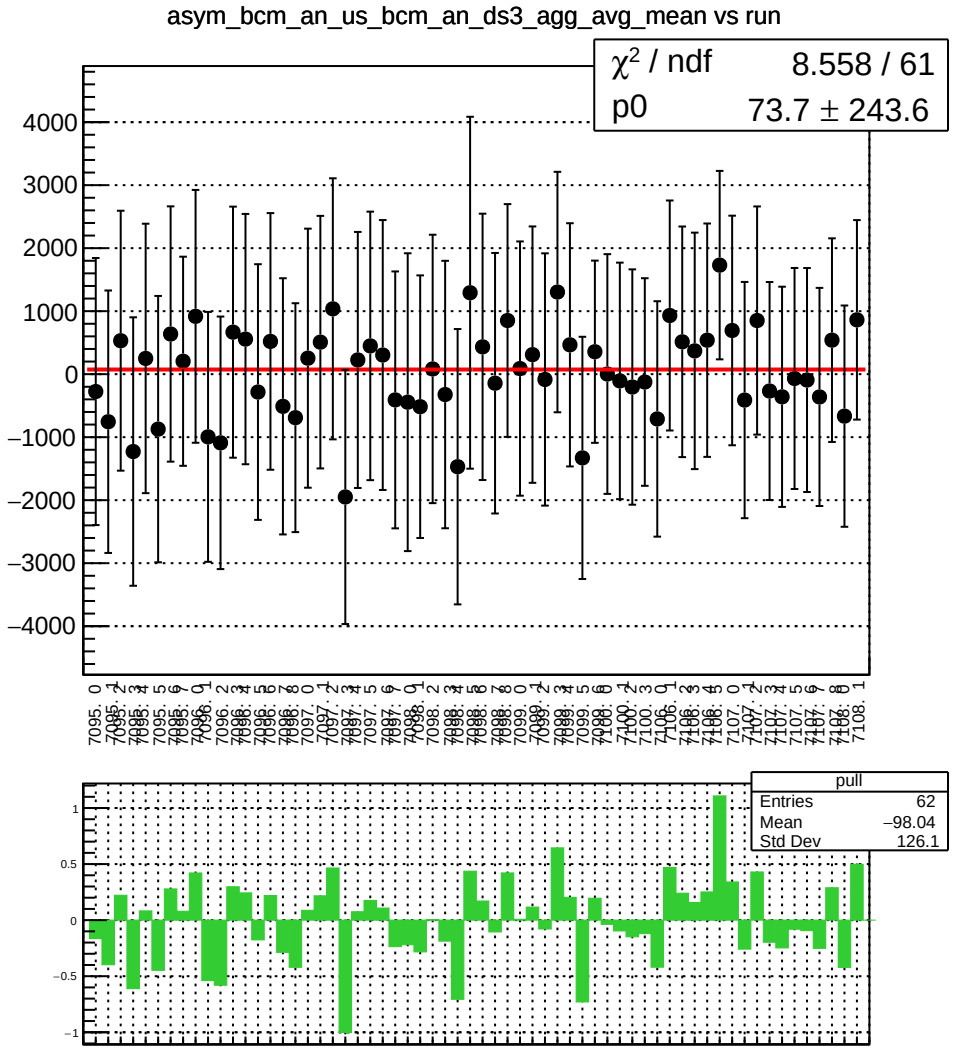
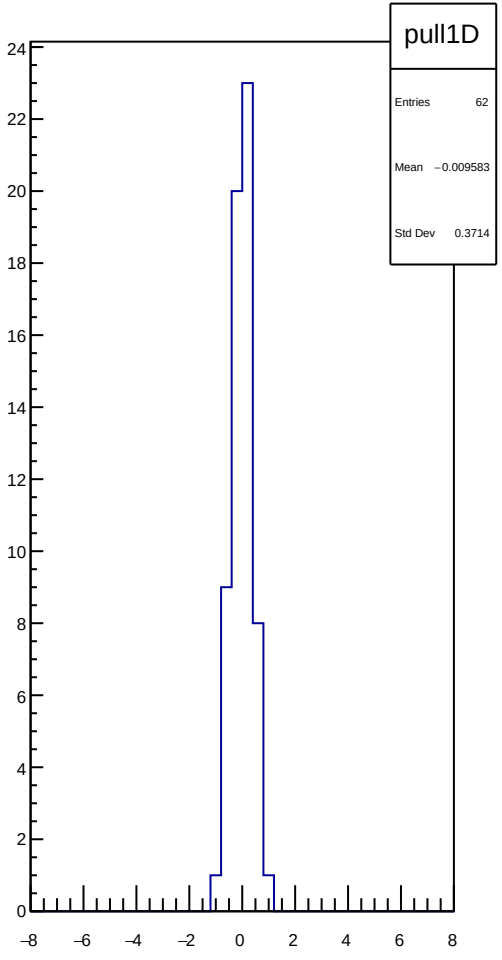
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

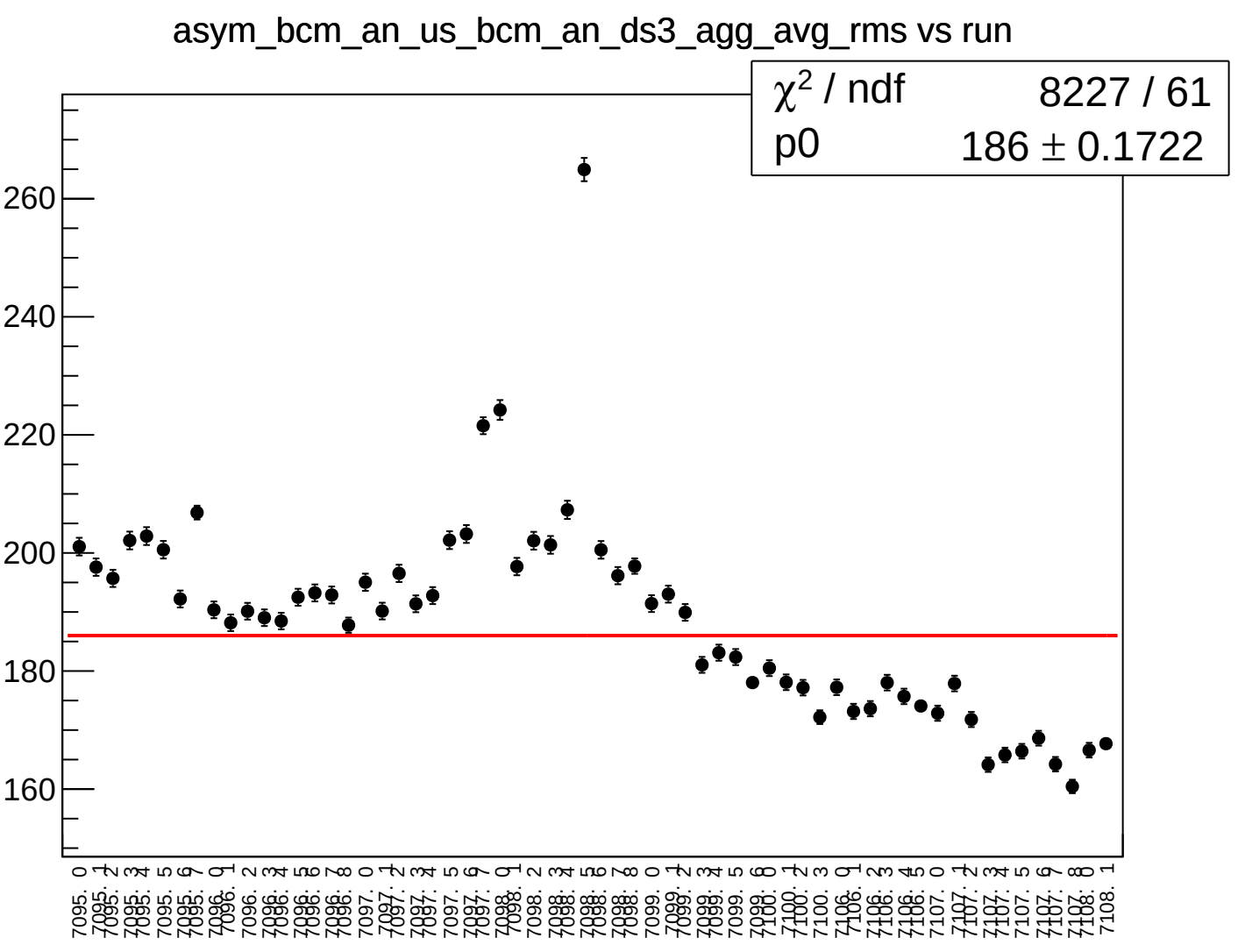

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.1 / 61
p0 2.115 ± 17.09
pull
Entries 62
Mean 21
Std Dev 98.17

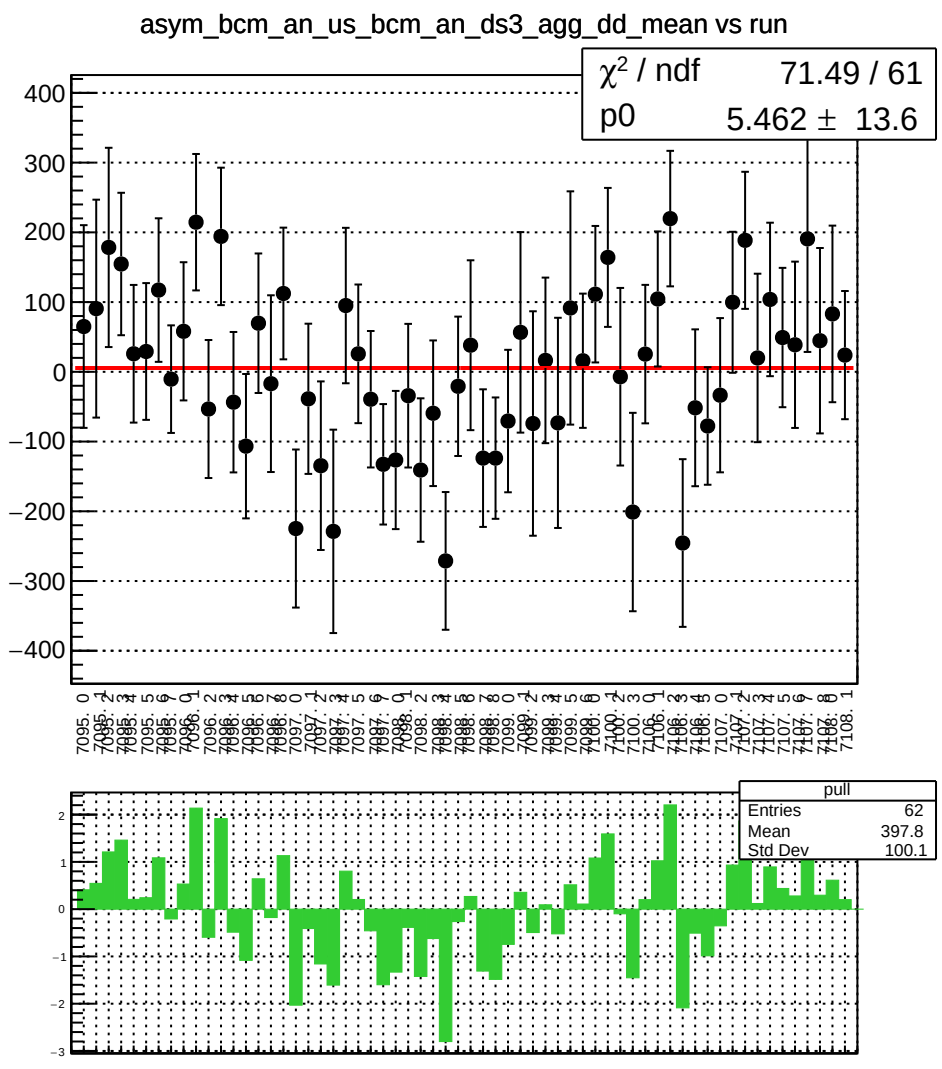

pull1D
Entries 62
Mean −0.01156
Std Dev 1.086

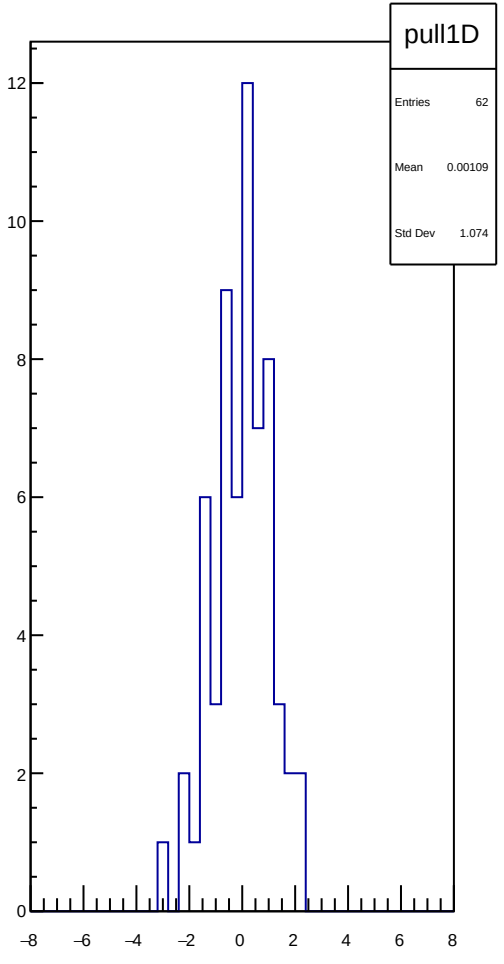

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.445e+04 / 61
p0 13.02 ± 0.01209
18
17
16
15
14
13
12
11

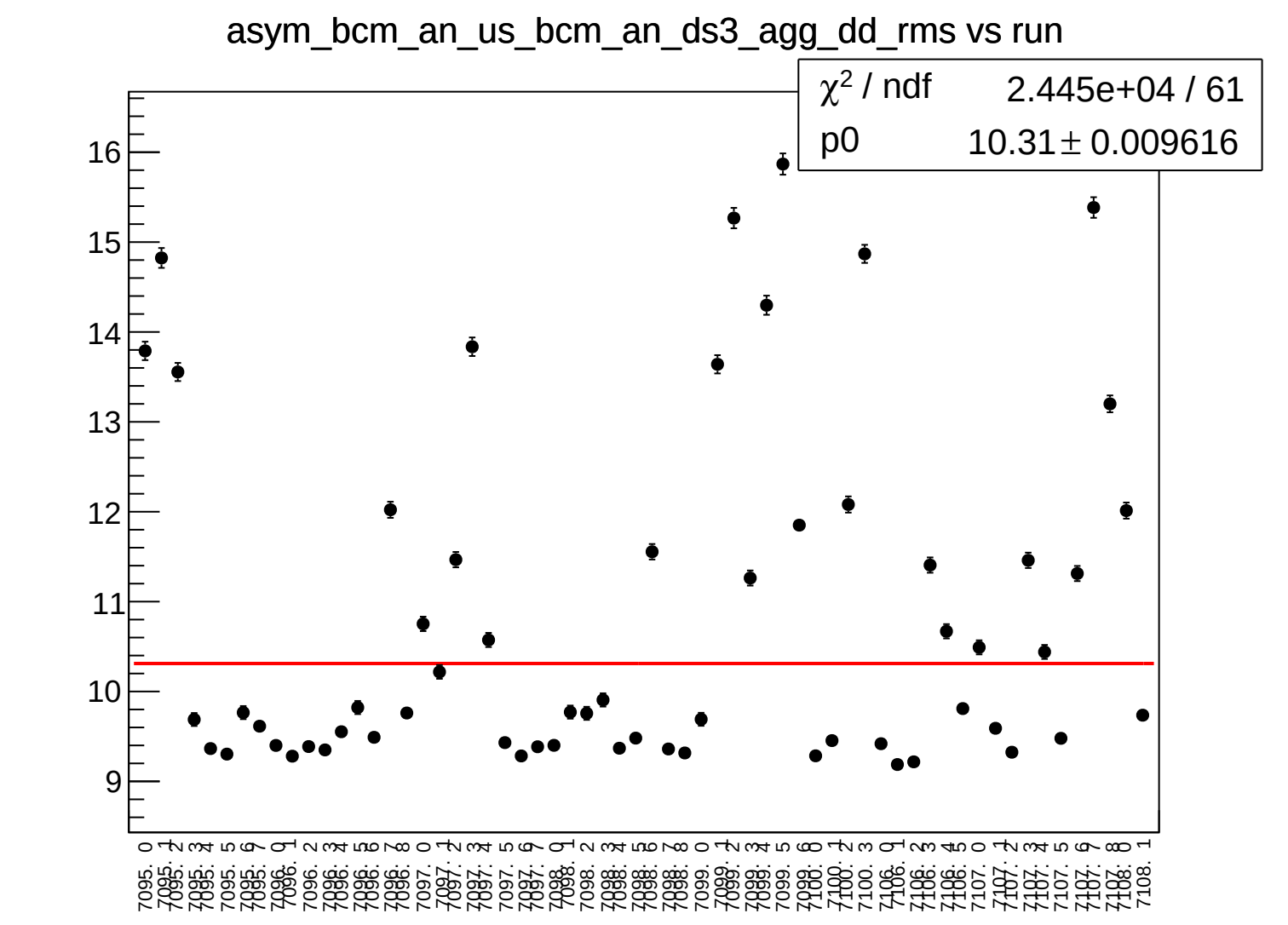

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 8.558 / 61
p0 73.7 ± 243.6
pull
Entries 62
Mean −98.04
Std Dev 126.1

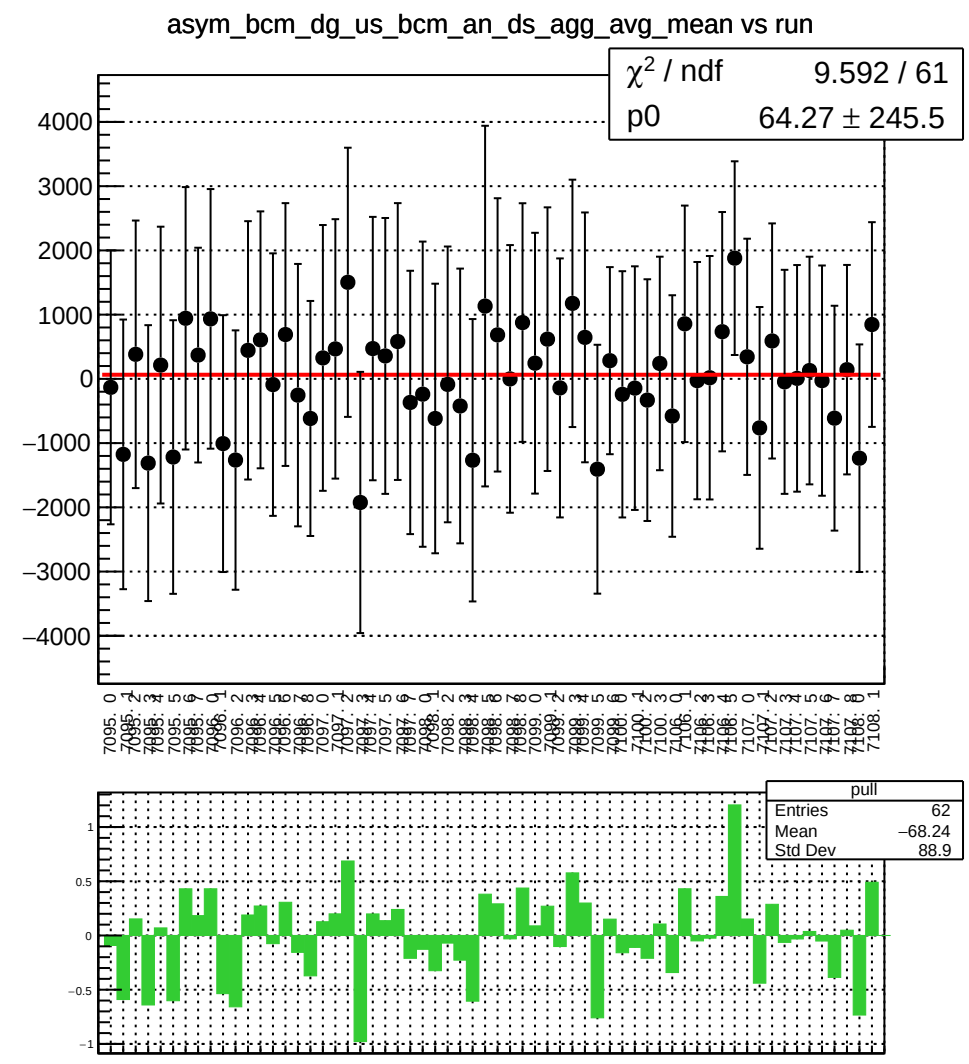

pull1D
Entries 62
Mean −0.009583
Std Dev 0.3714

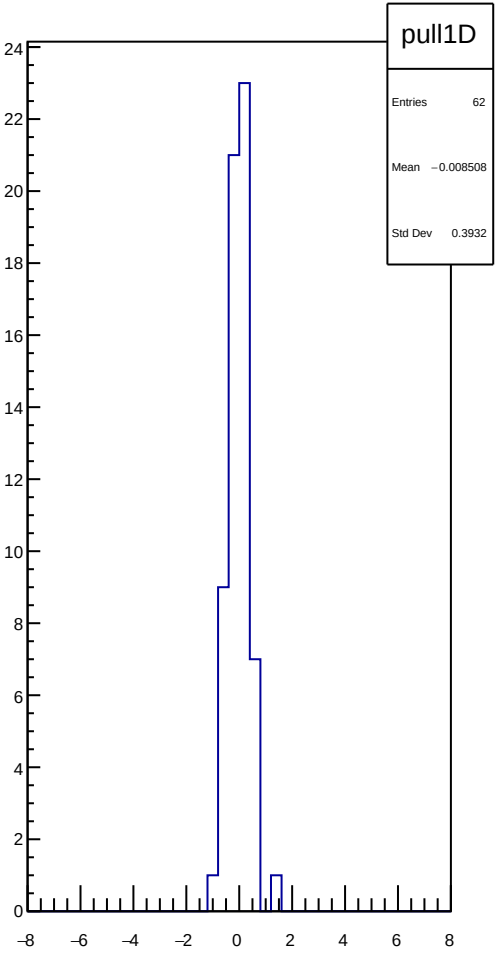

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 8227 / 61
p0 186 ± 0.1722
260
240
220
200
180
160

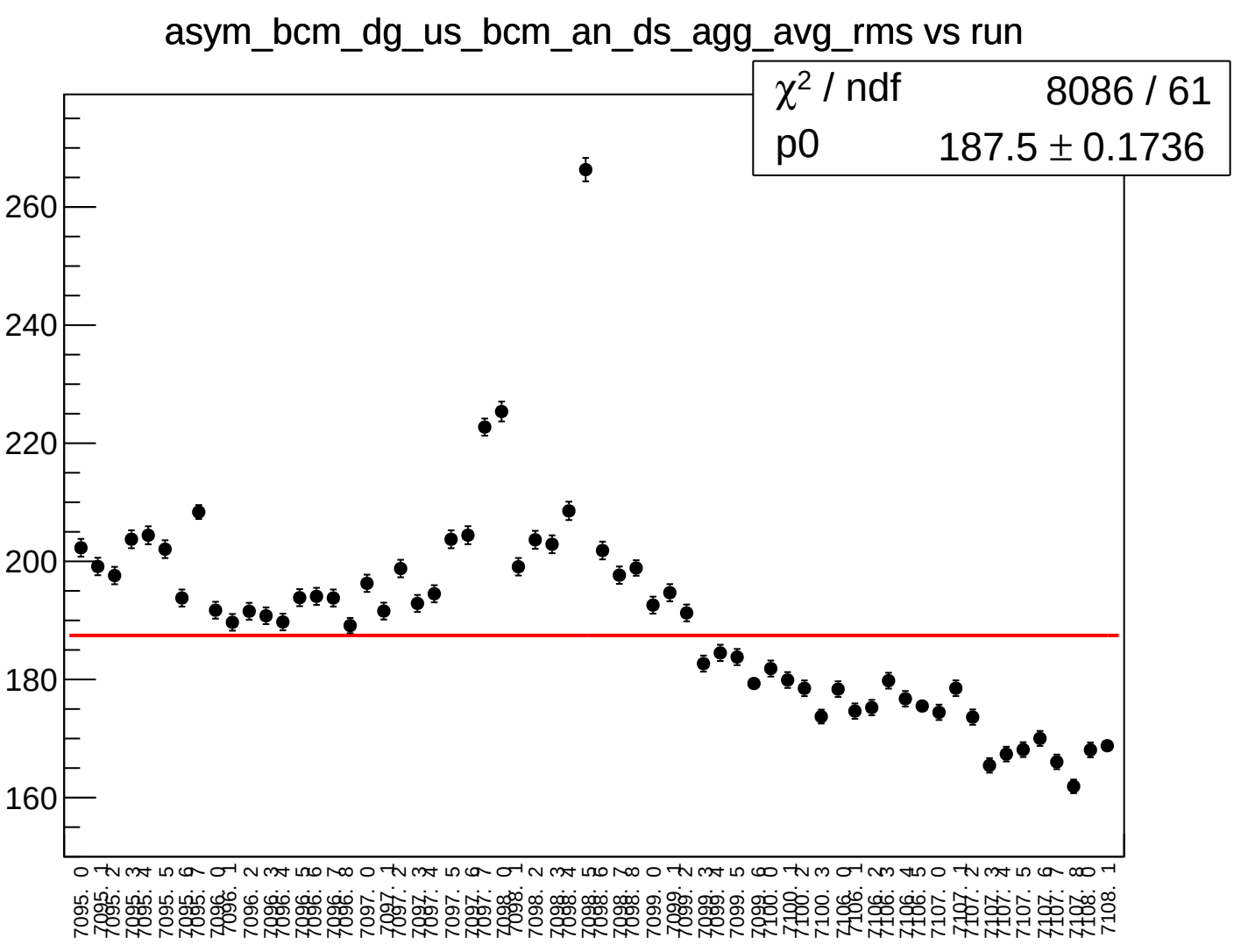

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 71.49 / 61
p0 5.462 ± 13.6
pull
Entries 62
Mean 397.8
Std Dev 100.1

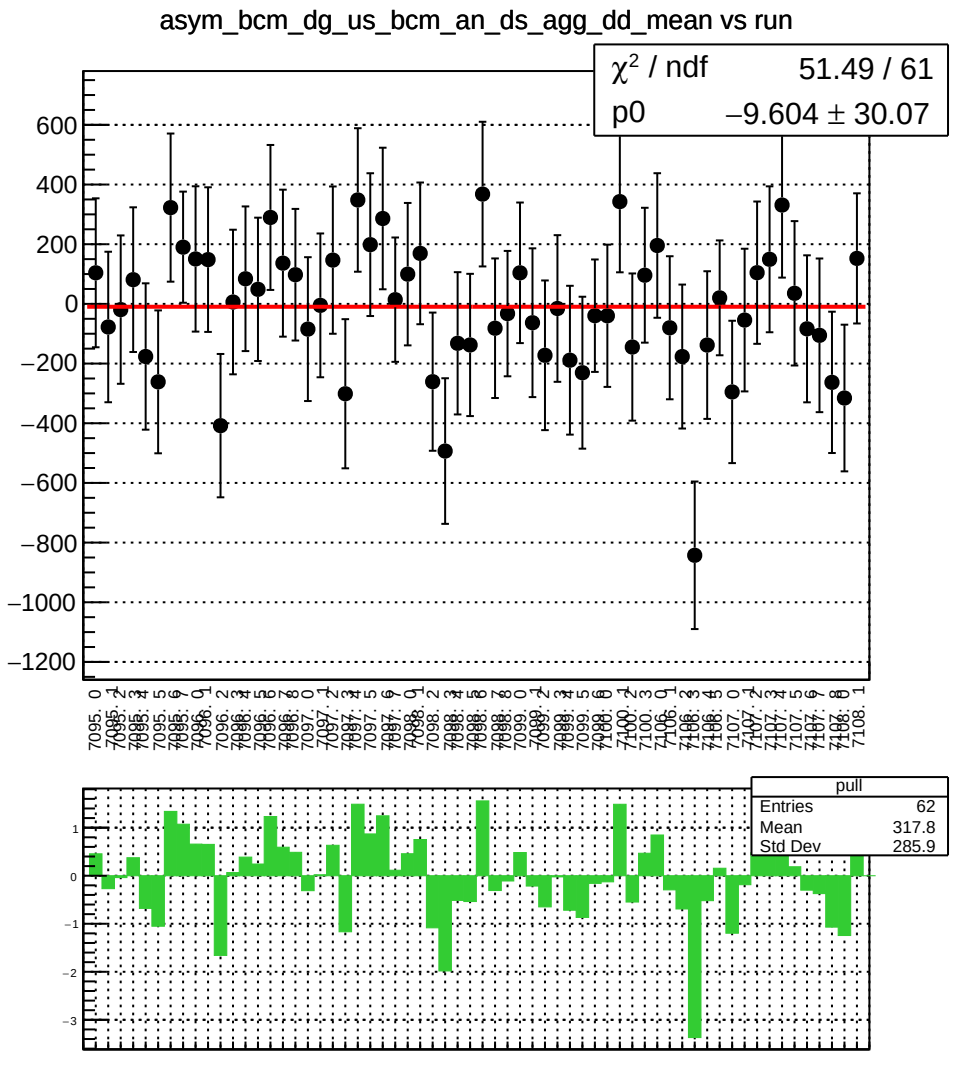

pull1D
Entries 62
Mean 0.00109
Std Dev 1.074

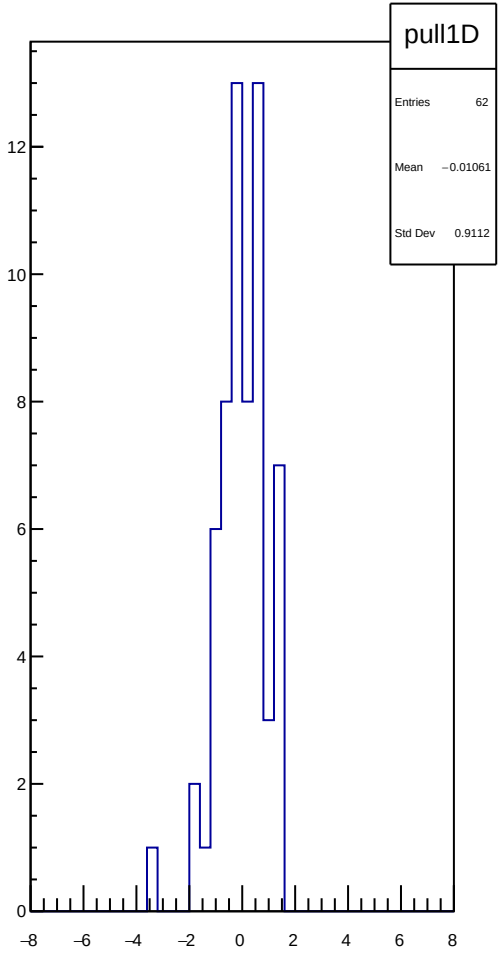

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.445e+04 / 61
p0 10.31 ± 0.009616
16
15
14
13
12
11
10
9

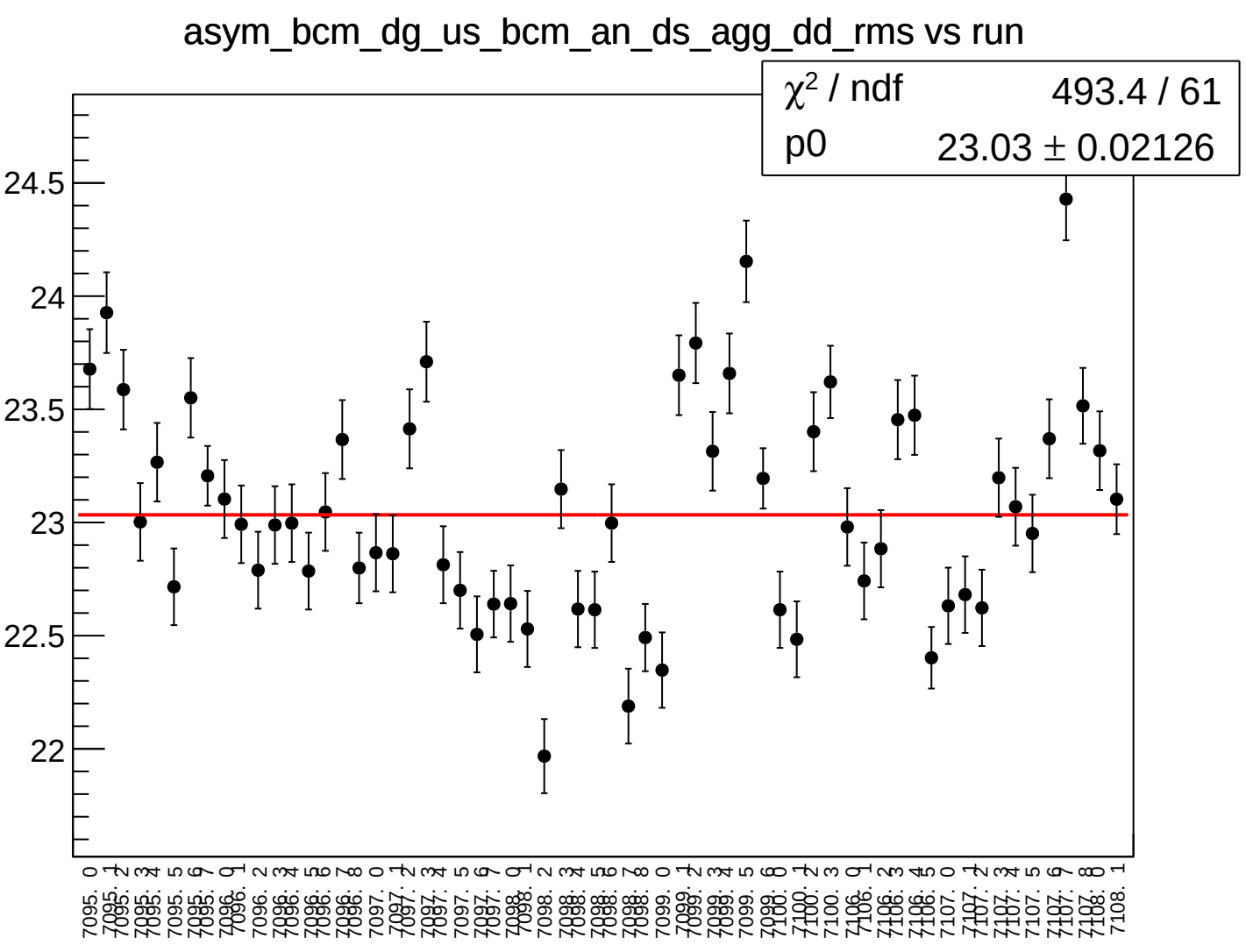

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.592 / 61
p0 64.27 ± 245.5
pull
Entries 62
Mean −68.24
Std Dev 88.9


pull1D
Entries 62
Mean −0.008508
Std Dev 0.3932


asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8086 / 61
p0 187.5 ± 0.1736
260
240
220
200
180
160


asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 51.49 / 61
p0 −9.604 ± 30.07
pull
Entries 62
Mean 317.8
Std Dev 285.9


pull1D
Entries 62
Mean −0.01061
Std Dev 0.9112


asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 493.4 / 61
p0 23.03 ± 0.02126
24.5
24
23.5
23
22.5
22
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
7096. 1
7096. 2
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7106. 3
7106. 4
7106. 5
7107. 0
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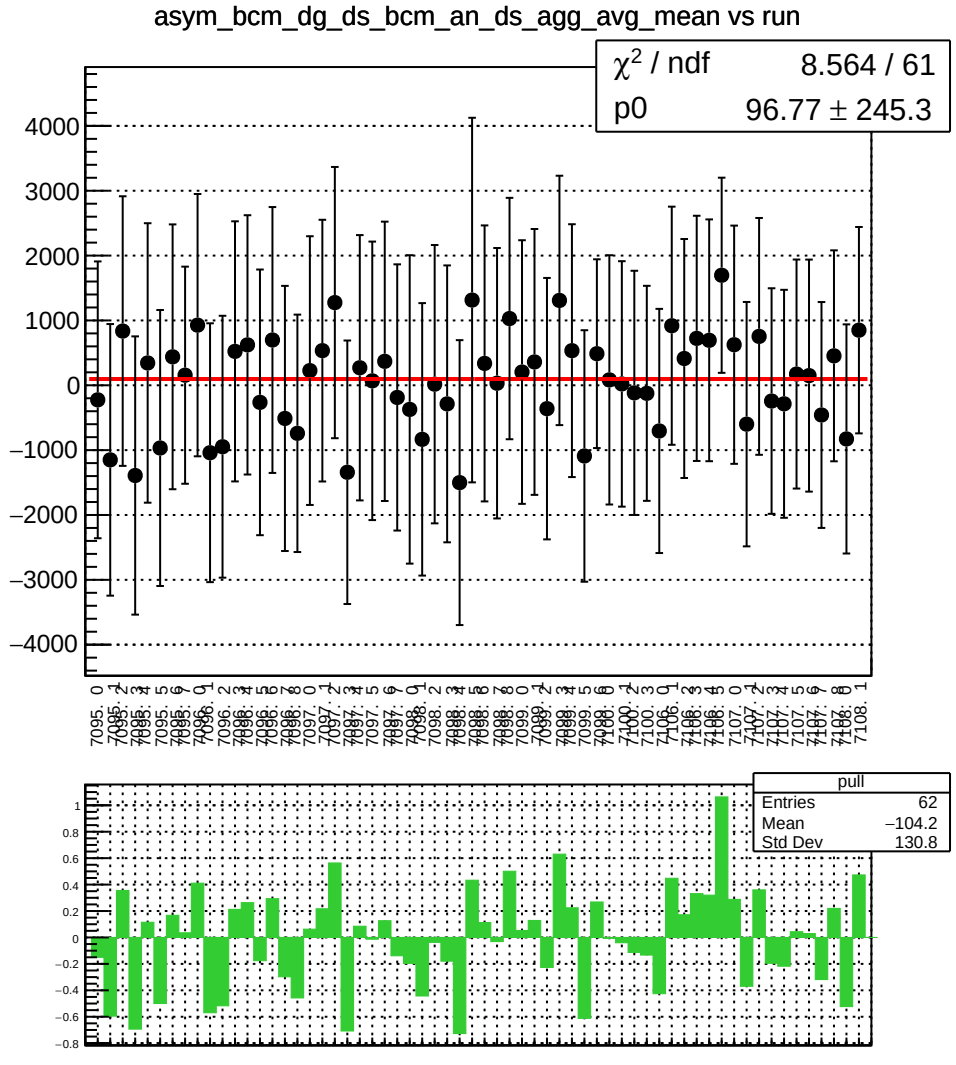
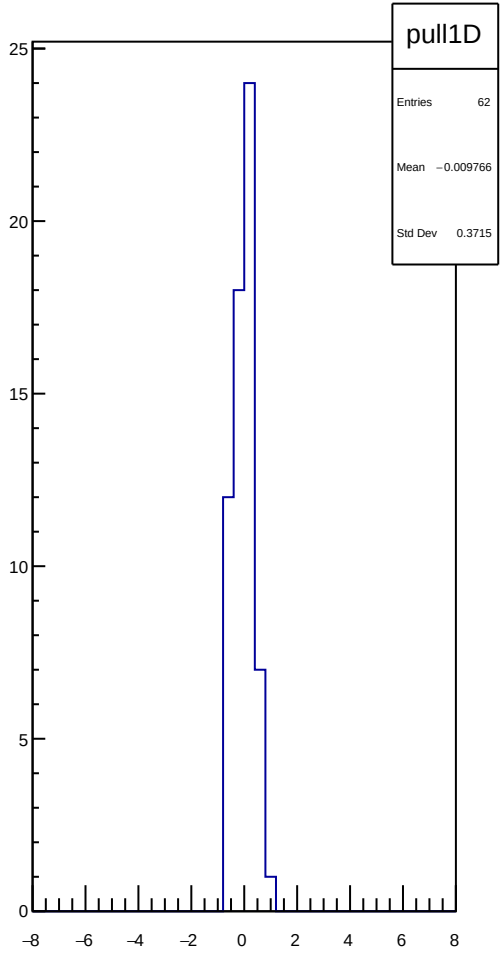
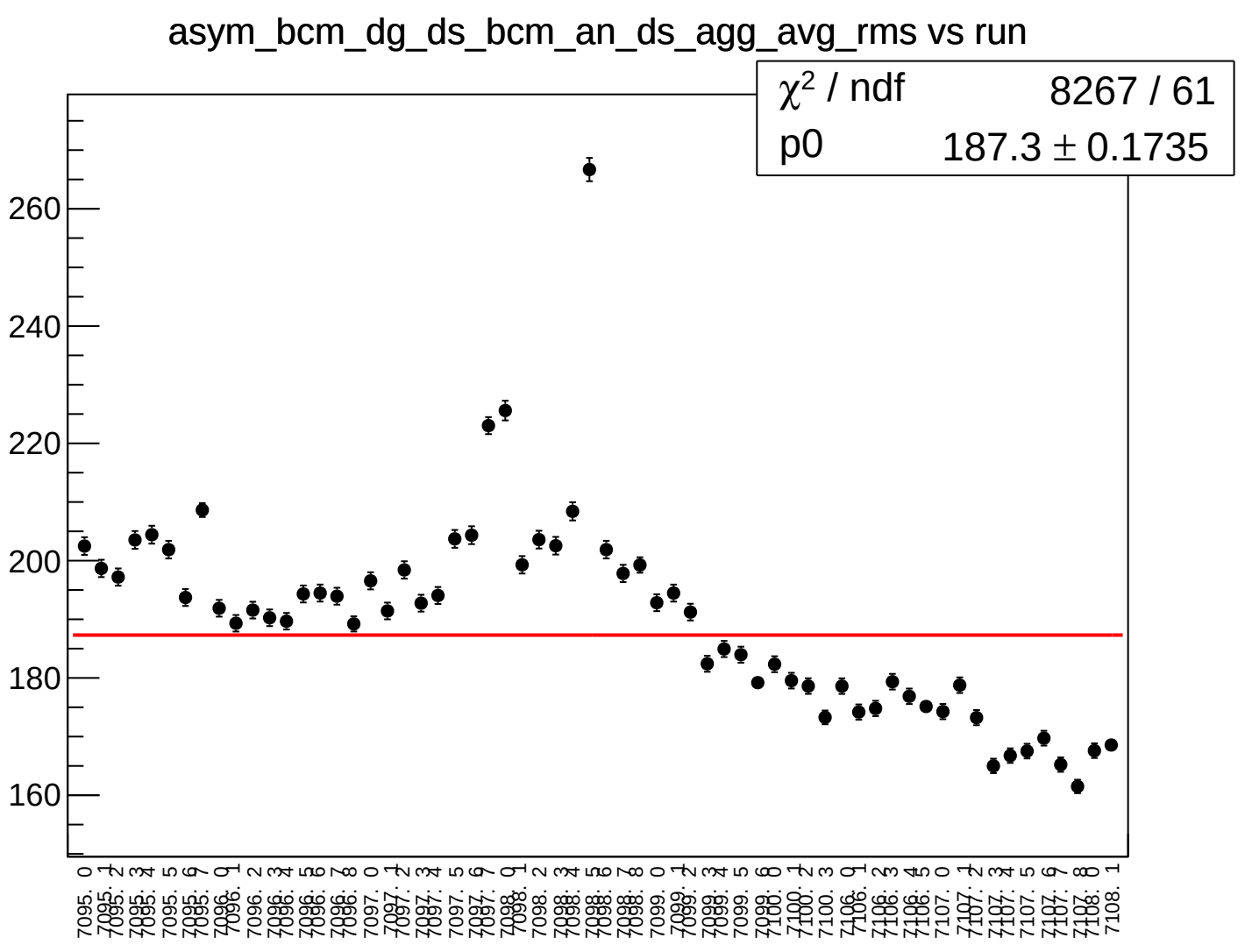
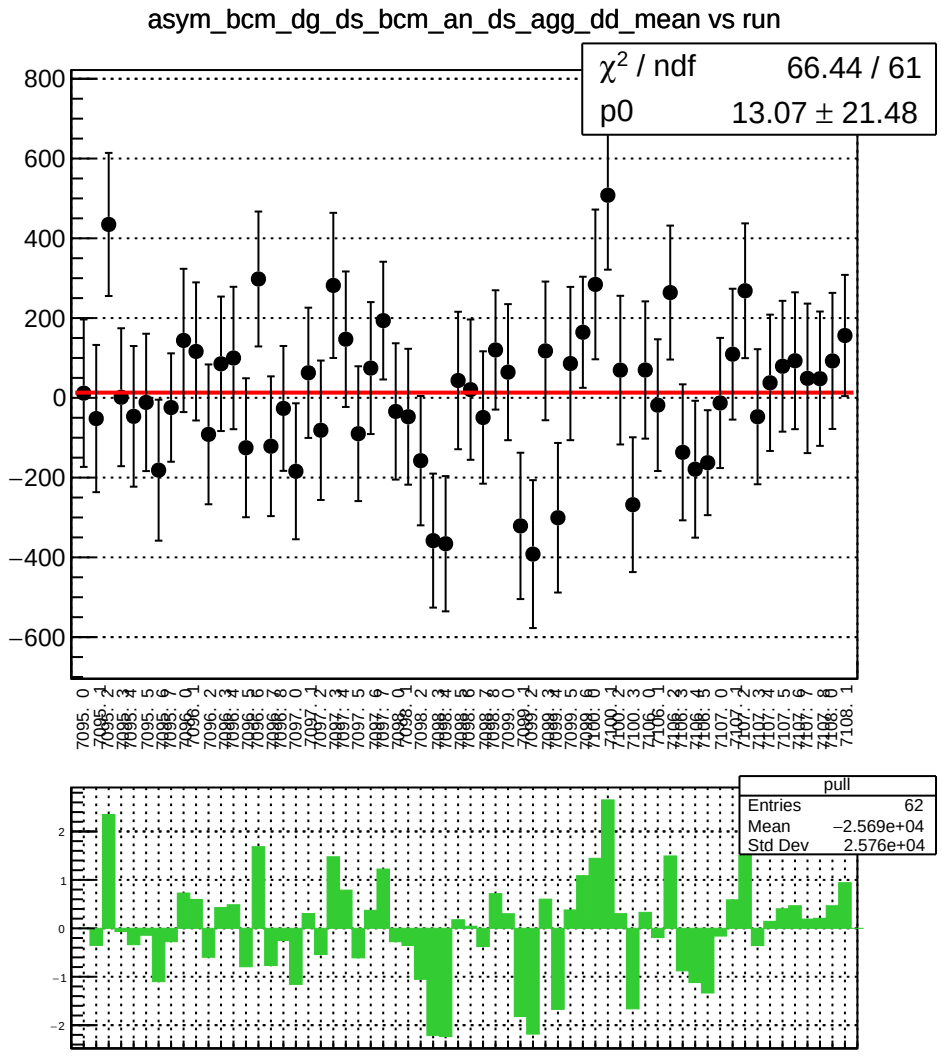
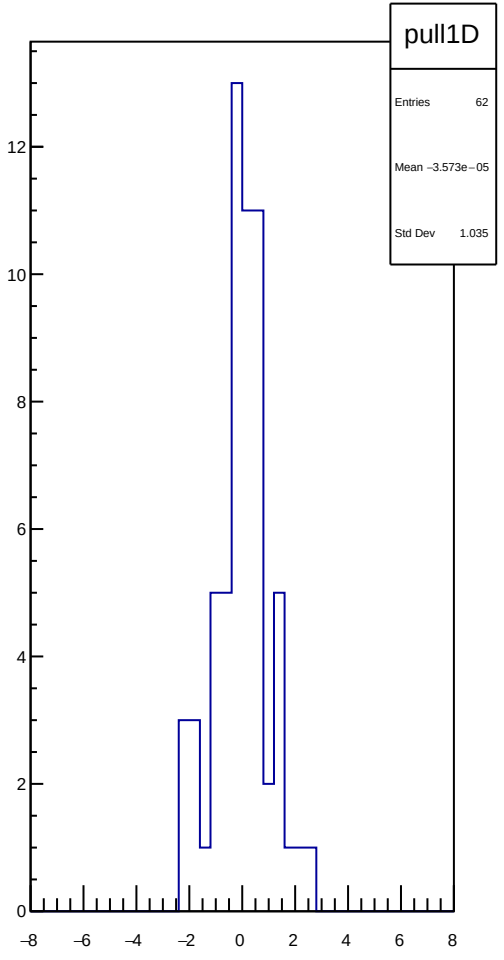
7108. 1

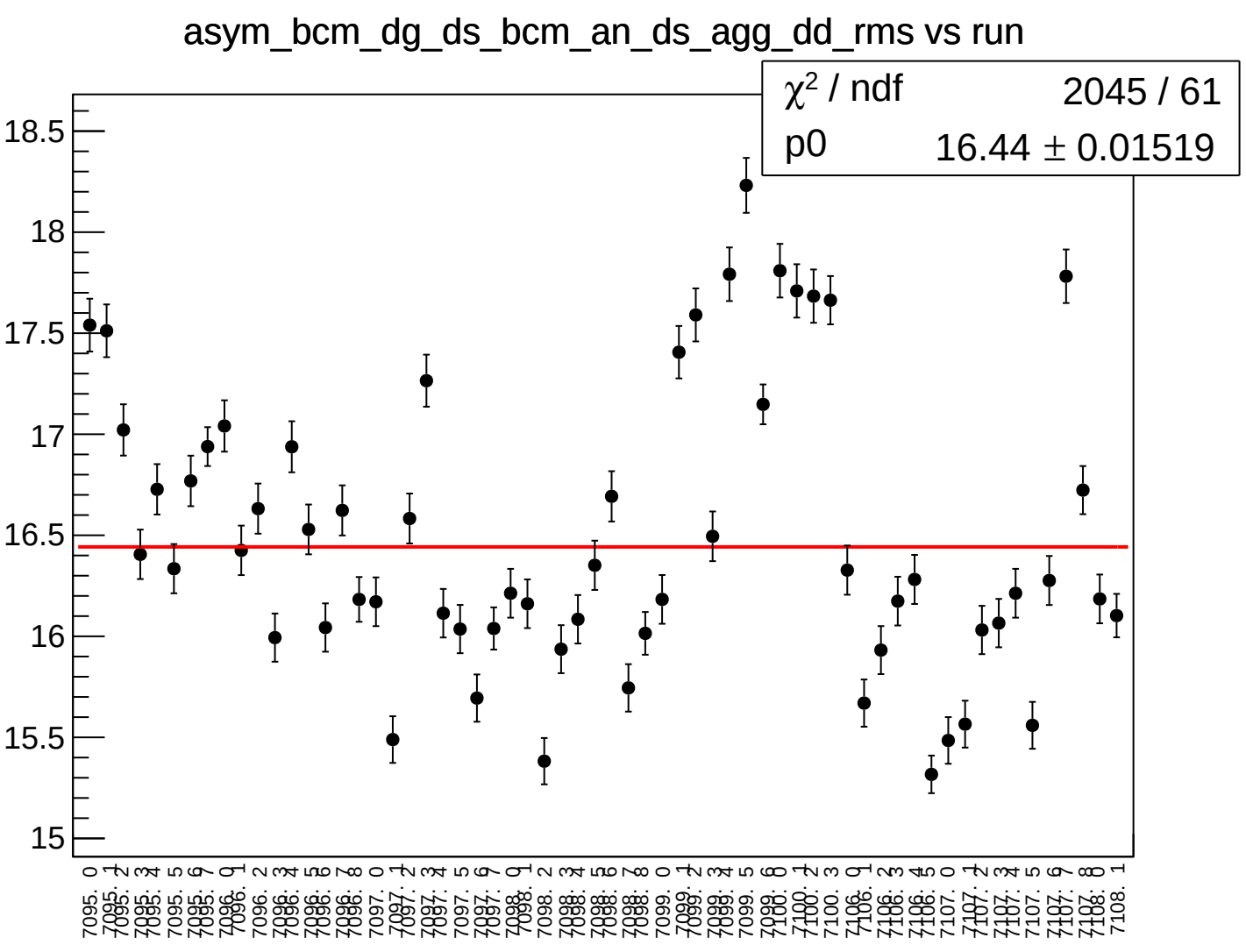

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.564 / 61
p0 96.77 ± 245.3
pull
Entries 62
Mean −104.2
Std Dev 130.8


pull1D
Entries 62
Mean −0.009766
Std Dev 0.3715


asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 8267 / 61
p0 187.3 ± 0.1735
260
240
220
200
180
160


asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 66.44 / 61
p0 13.07 ± 21.48
pull
Entries 62
Mean −2.569e+04
Std Dev 2.576e+04


pull1D
Entries 62
Mean −3.573e−05
Std Dev 1.035


asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2045 / 61
p0 16.44 ± 0.01519
18.5
18
17.5
17
16.5
16
15.5
15
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
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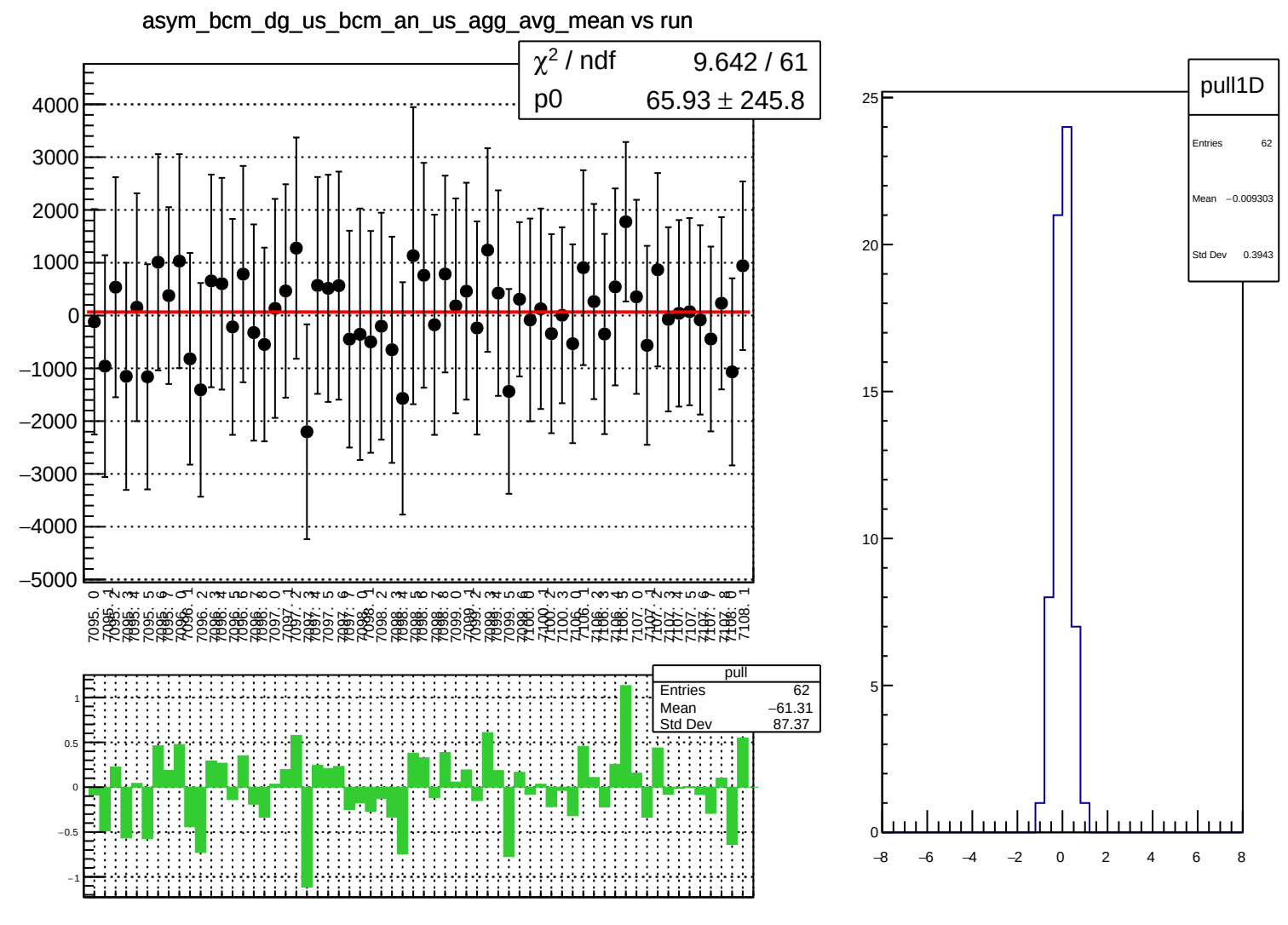
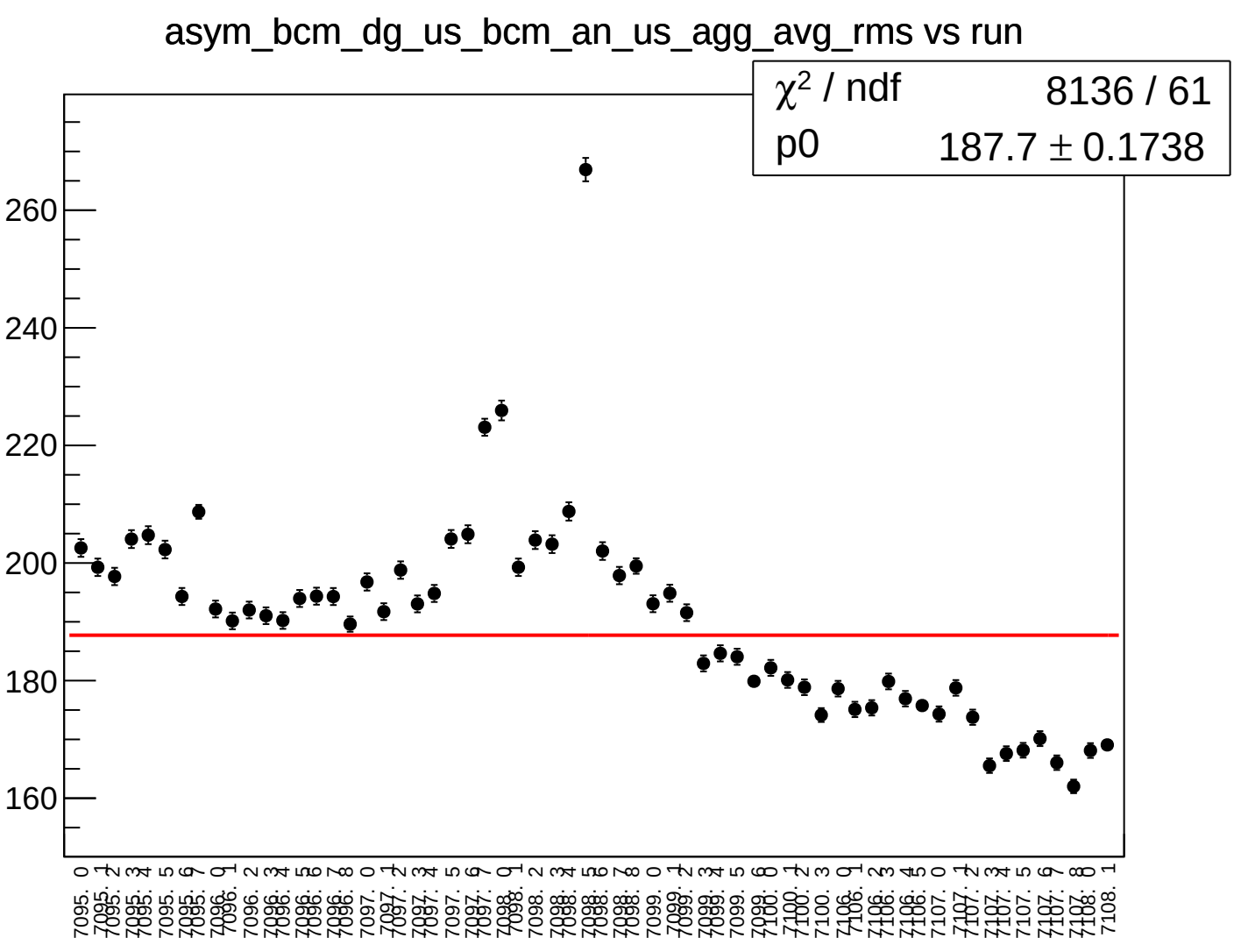
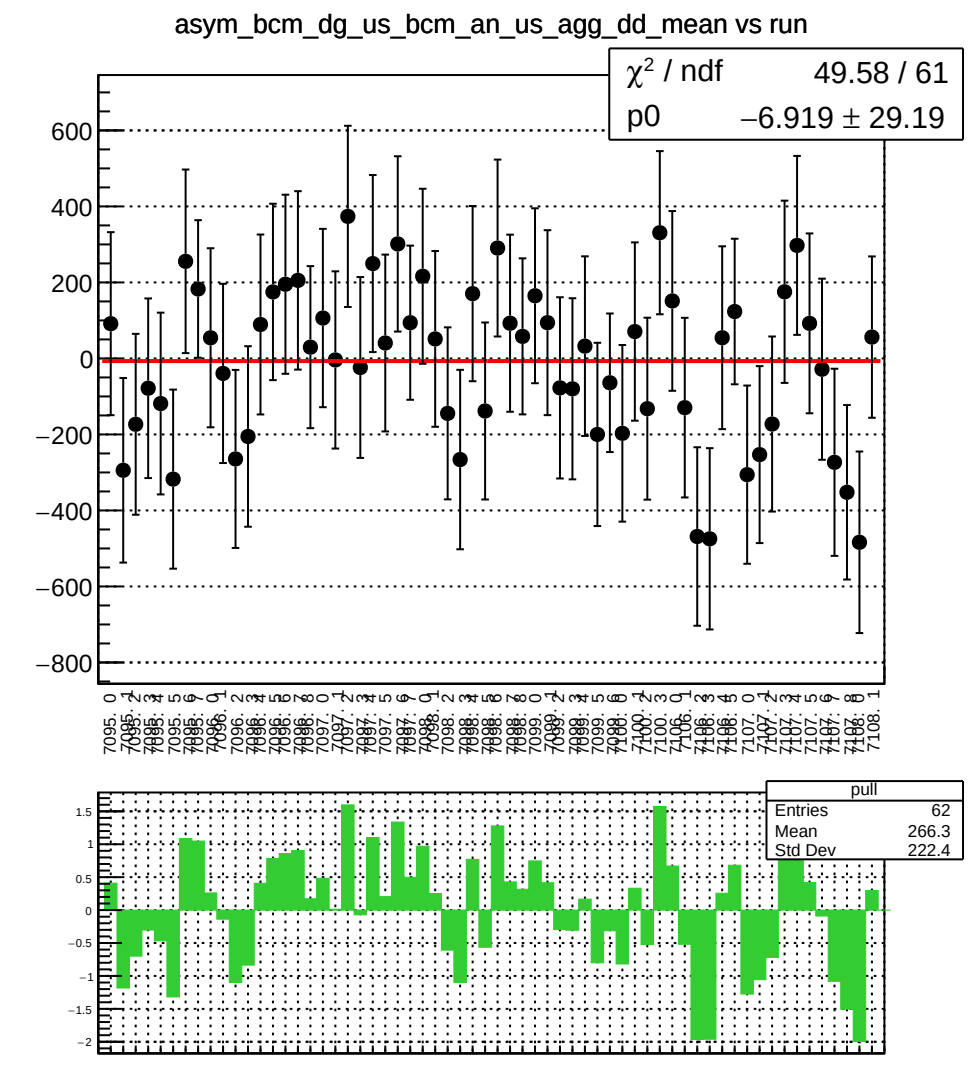
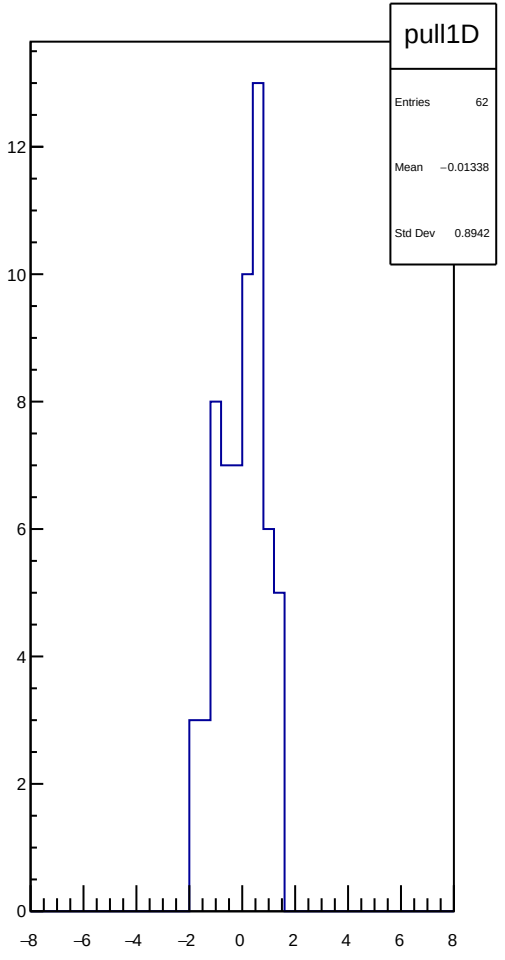
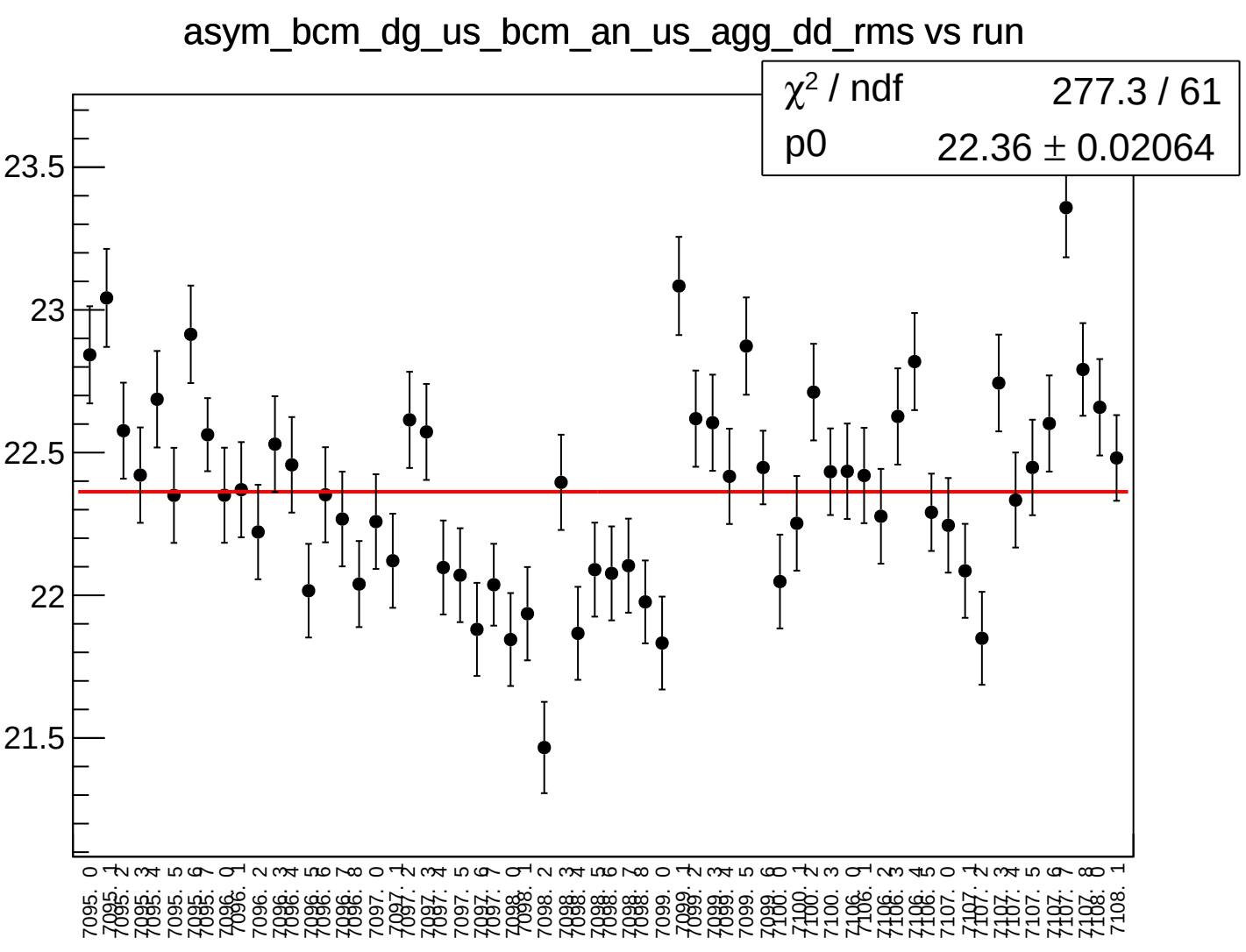
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7108. 0
7108. 1

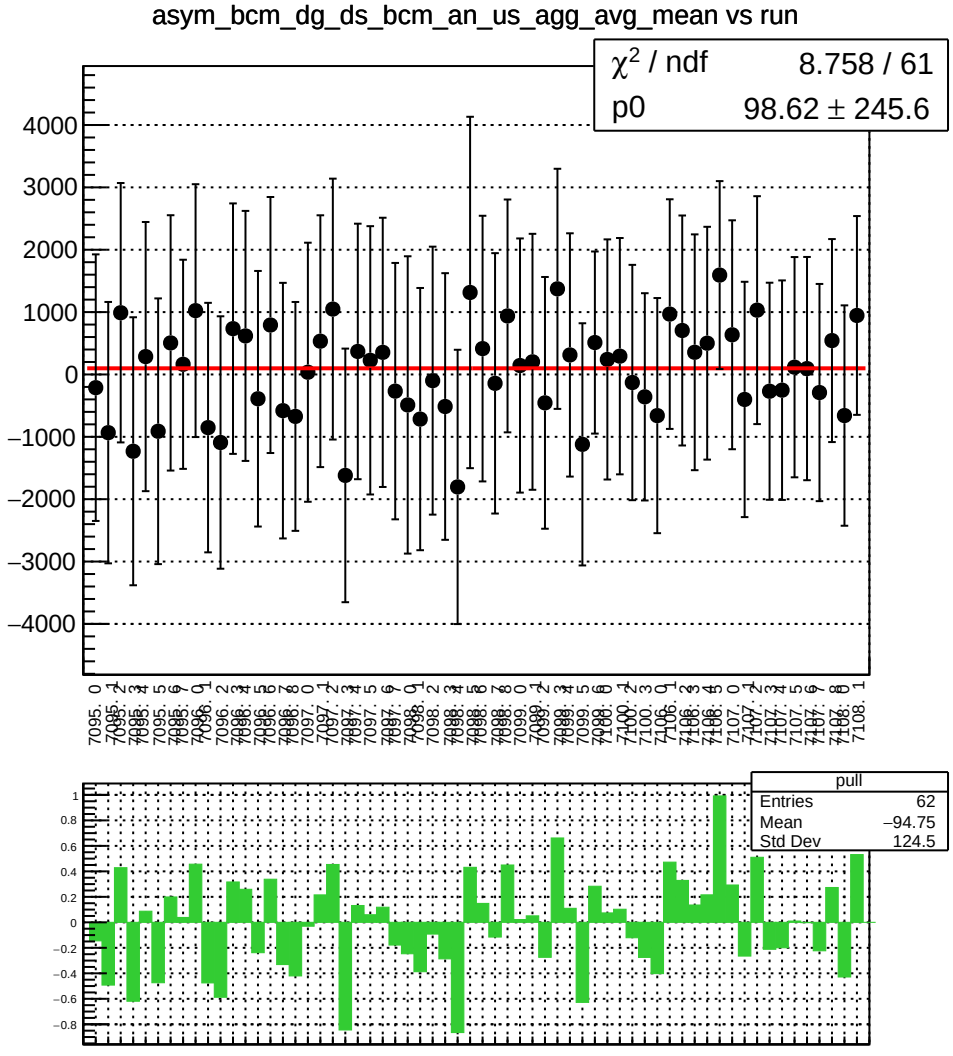

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.642 / 61
p0 65.93 ± 245.8
pull
Entries 62
Mean −61.31
Std Dev 87.37
pull1D
Entries 62
Mean −0.009303
Std Dev 0.3943

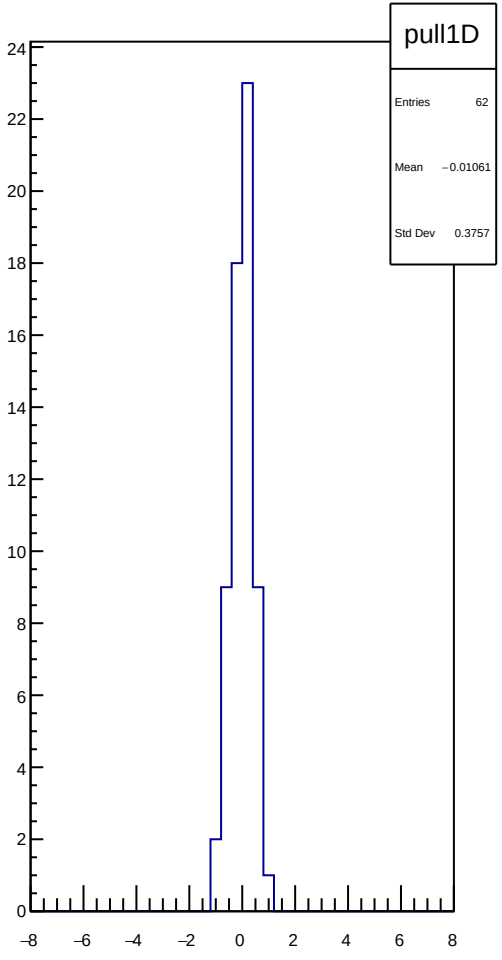

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 8136 / 61
p0 187.7 ± 0.1738
260
240
220
200
180
160

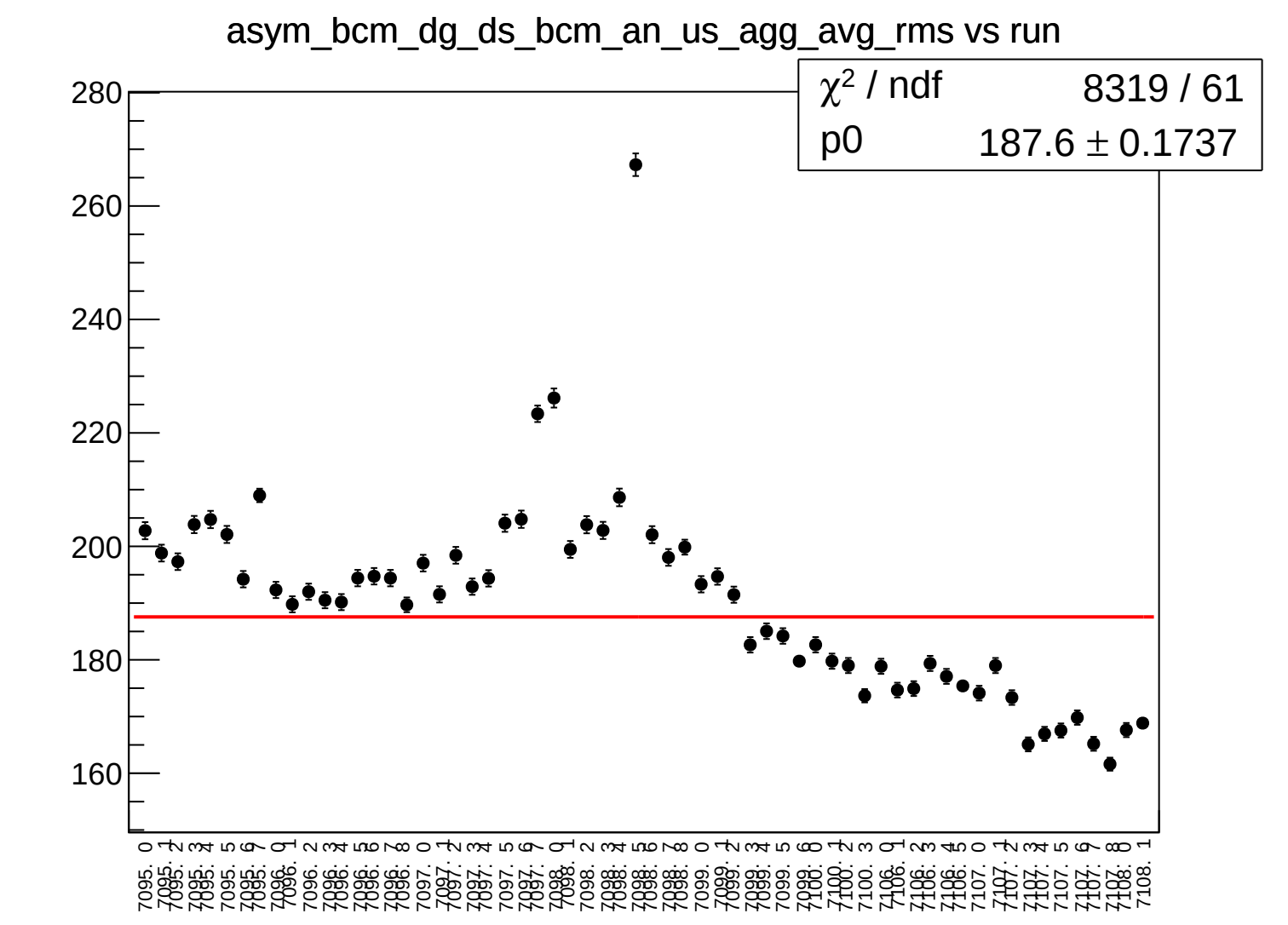

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.58 / 61
p0 −6.919 ± 29.19
pull
Entries 62
Mean 266.3
Std Dev 222.4

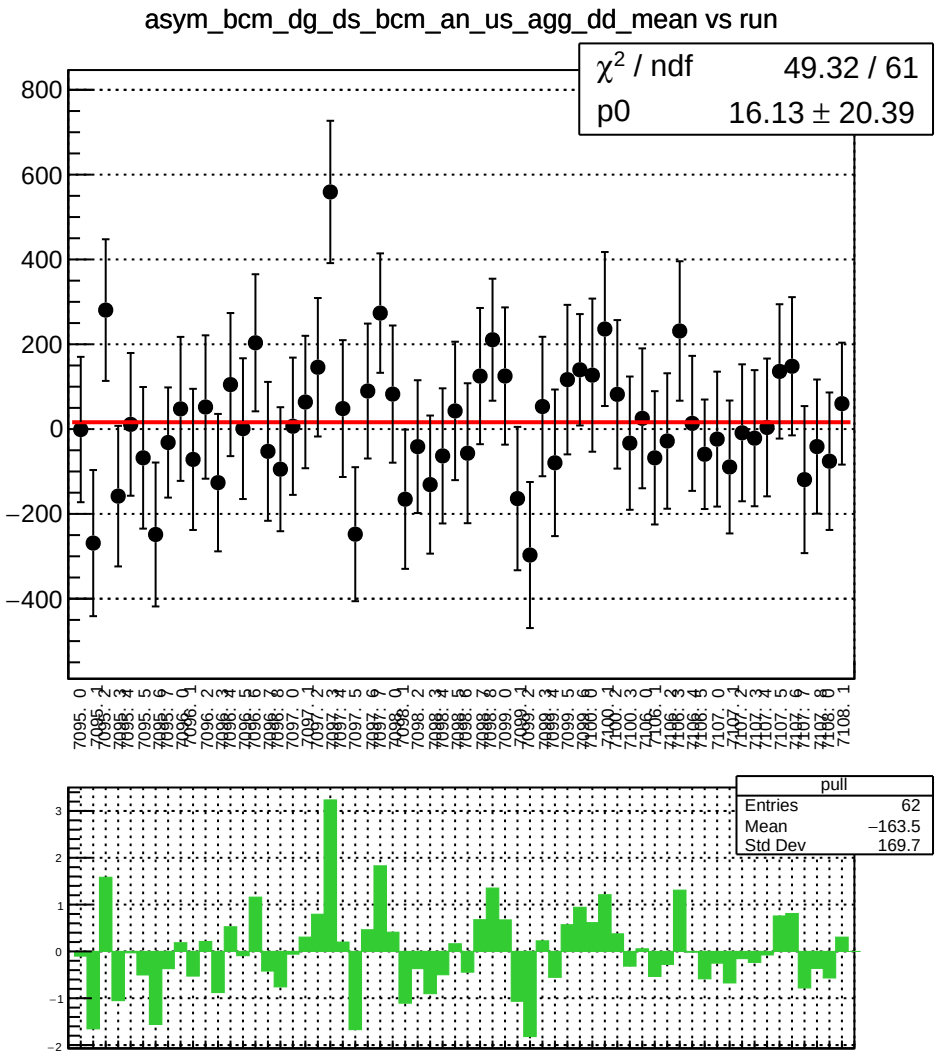

pull1D
Entries 62
Mean −0.01338
Std Dev 0.8942

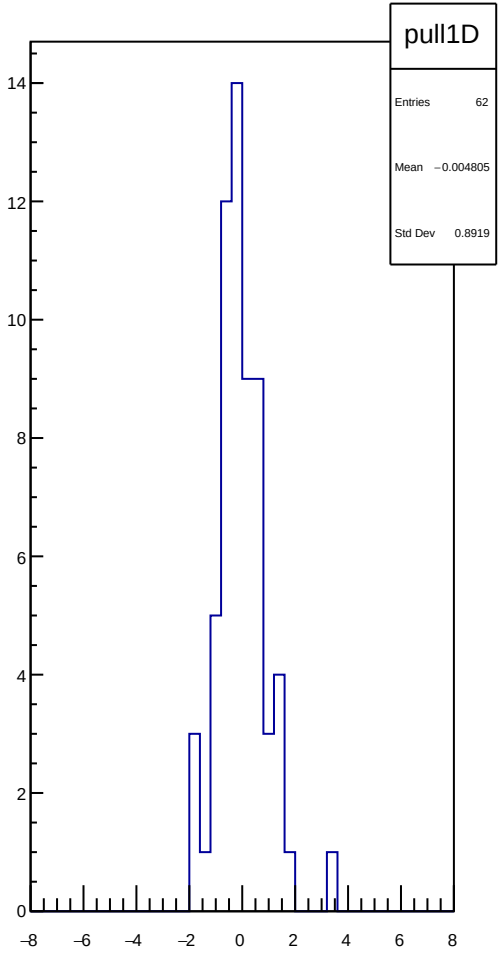

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 277.3 / 61
p0 22.36 ± 0.02064
23.5
23
22.5
22
21.5

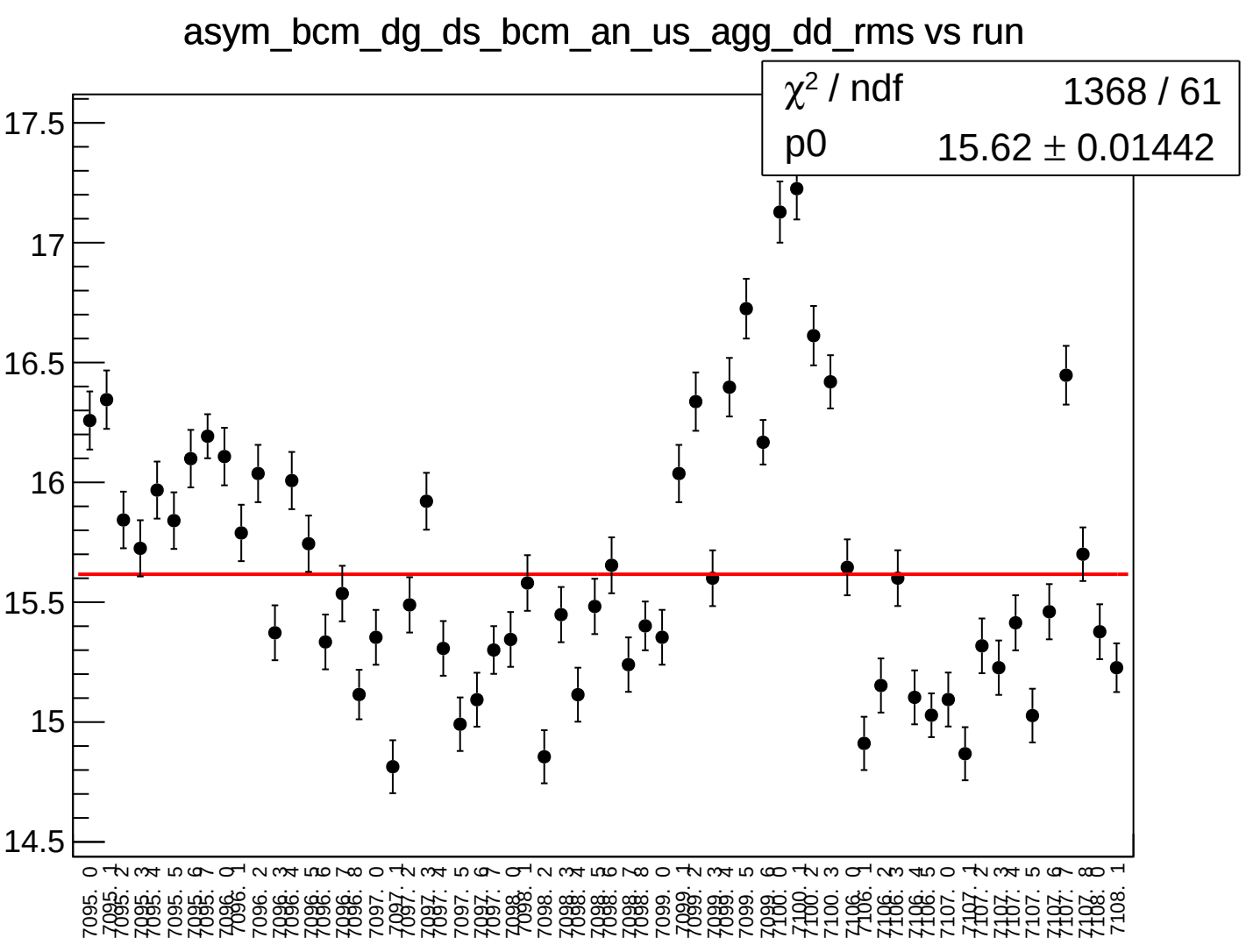

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.758 / 61
p0 98.62 ± 245.6
pull
Entries 62
Mean −94.75
Std Dev 124.5

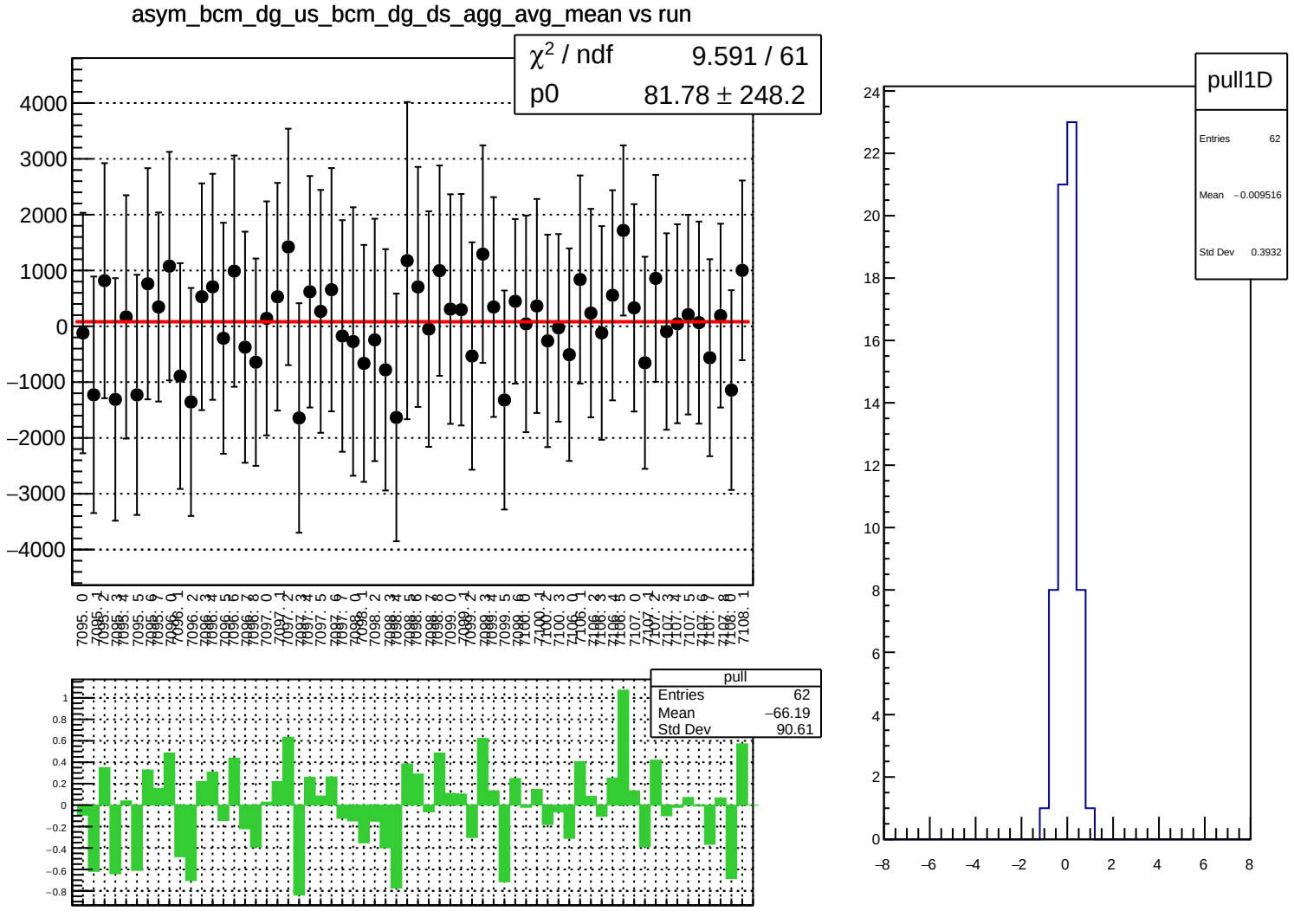

pull1D
Entries 62
Mean −0.01061
Std Dev 0.3757

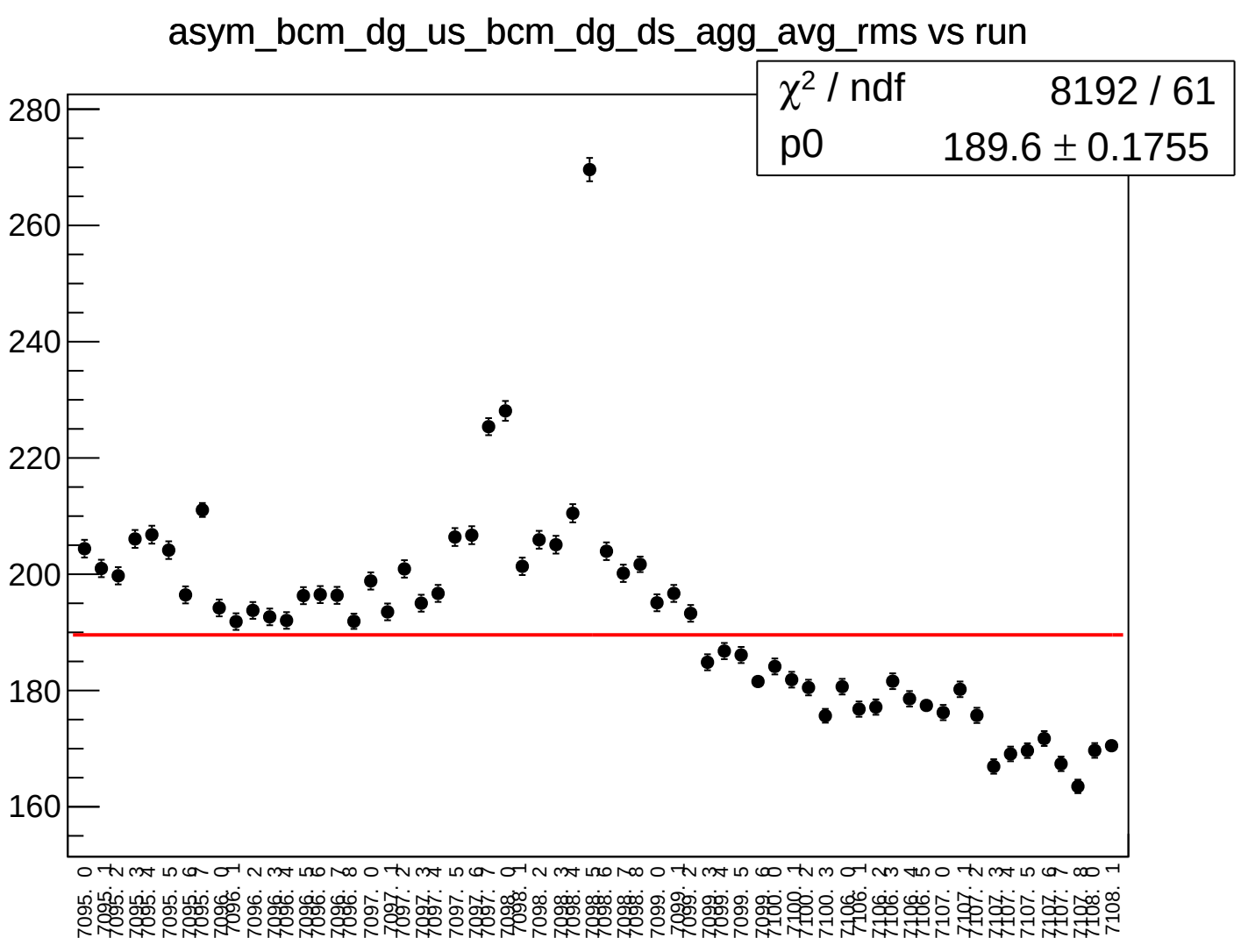

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ^2 / ndf 8319 / 61
p0 187.6 ± 0.1737
280
260
240
220
200
180
160

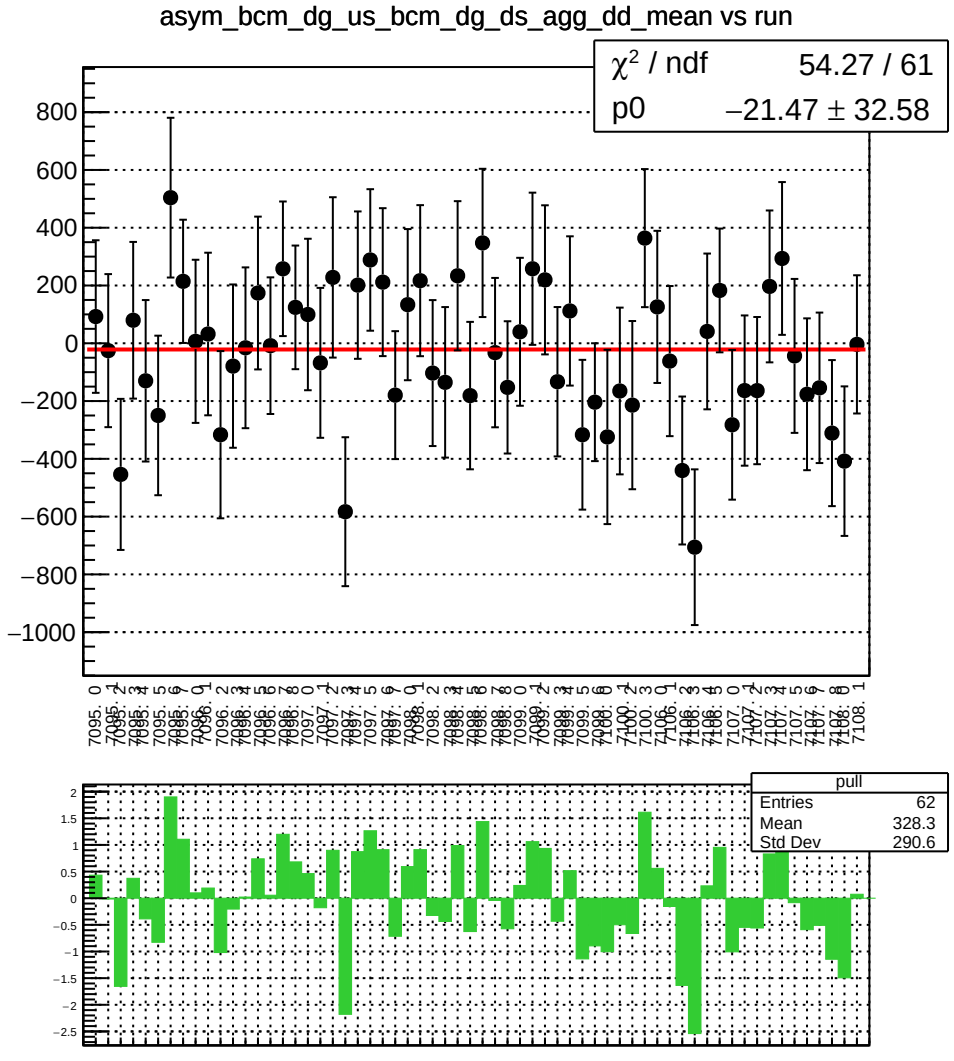

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 49.32 / 61
p0 16.13 ± 20.39
pull
Entries 62
Mean −163.5
Std Dev 169.7

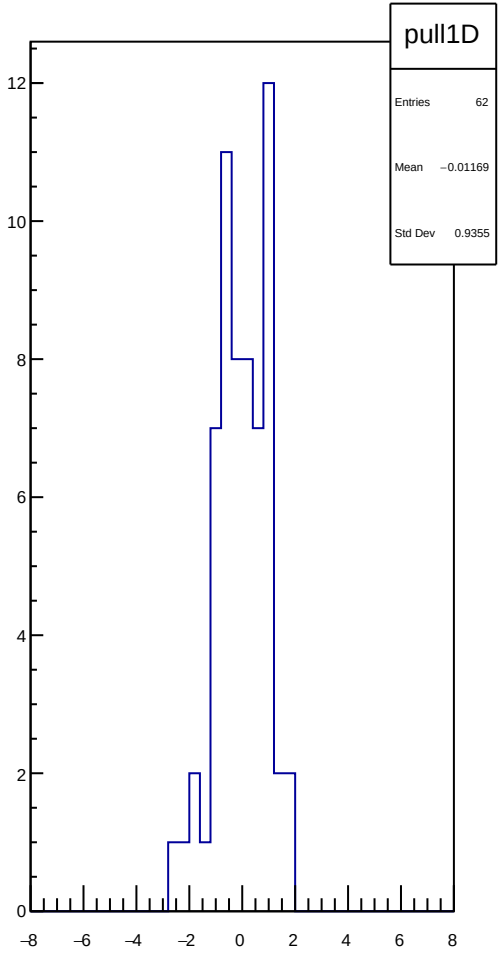

pull1D
Entries 62
Mean −0.004805
Std Dev 0.8919

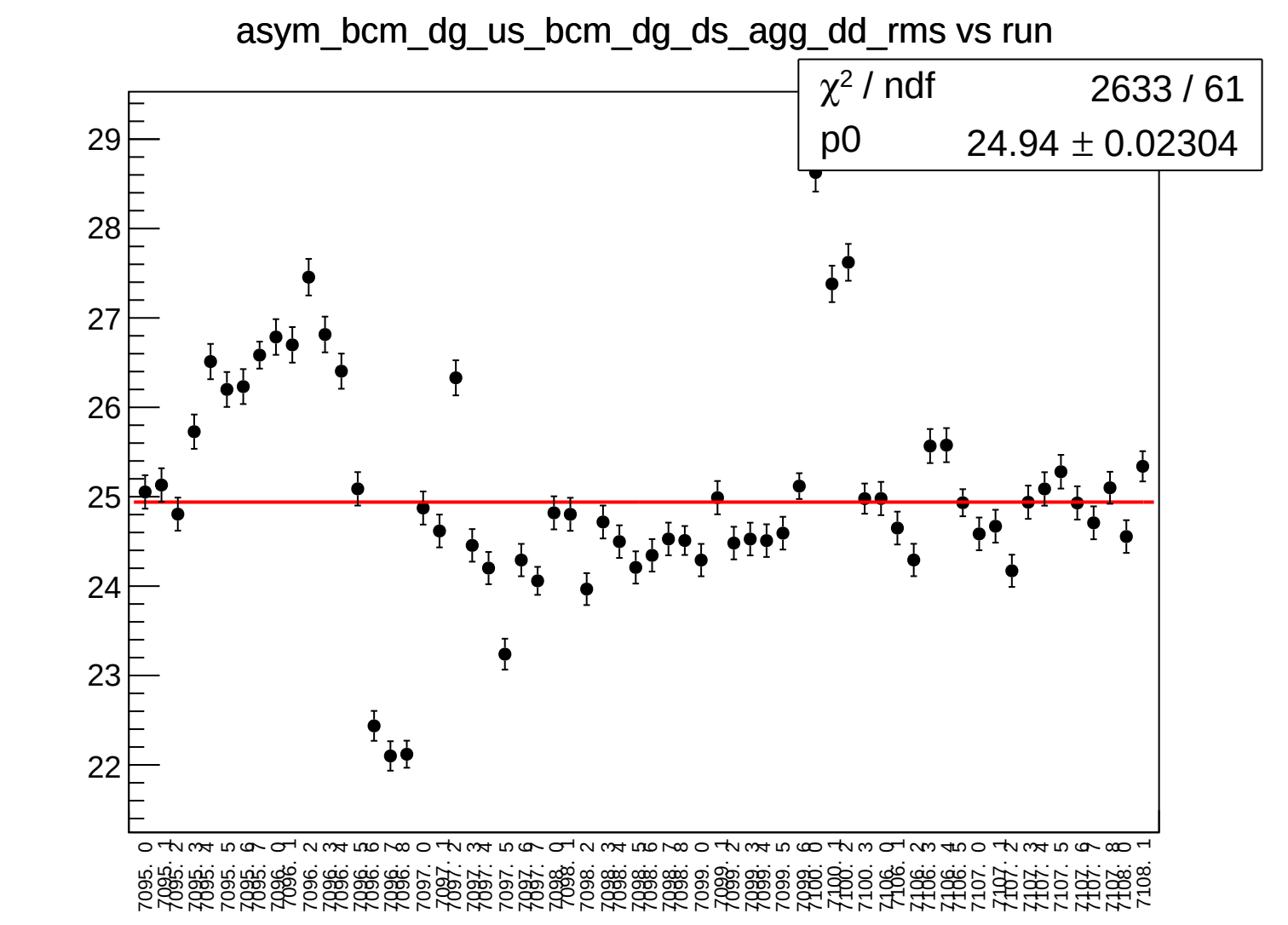

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1368 / 61
p0 15.62 ± 0.01442
17.5
17
16.5
16
15.5
15
14.5

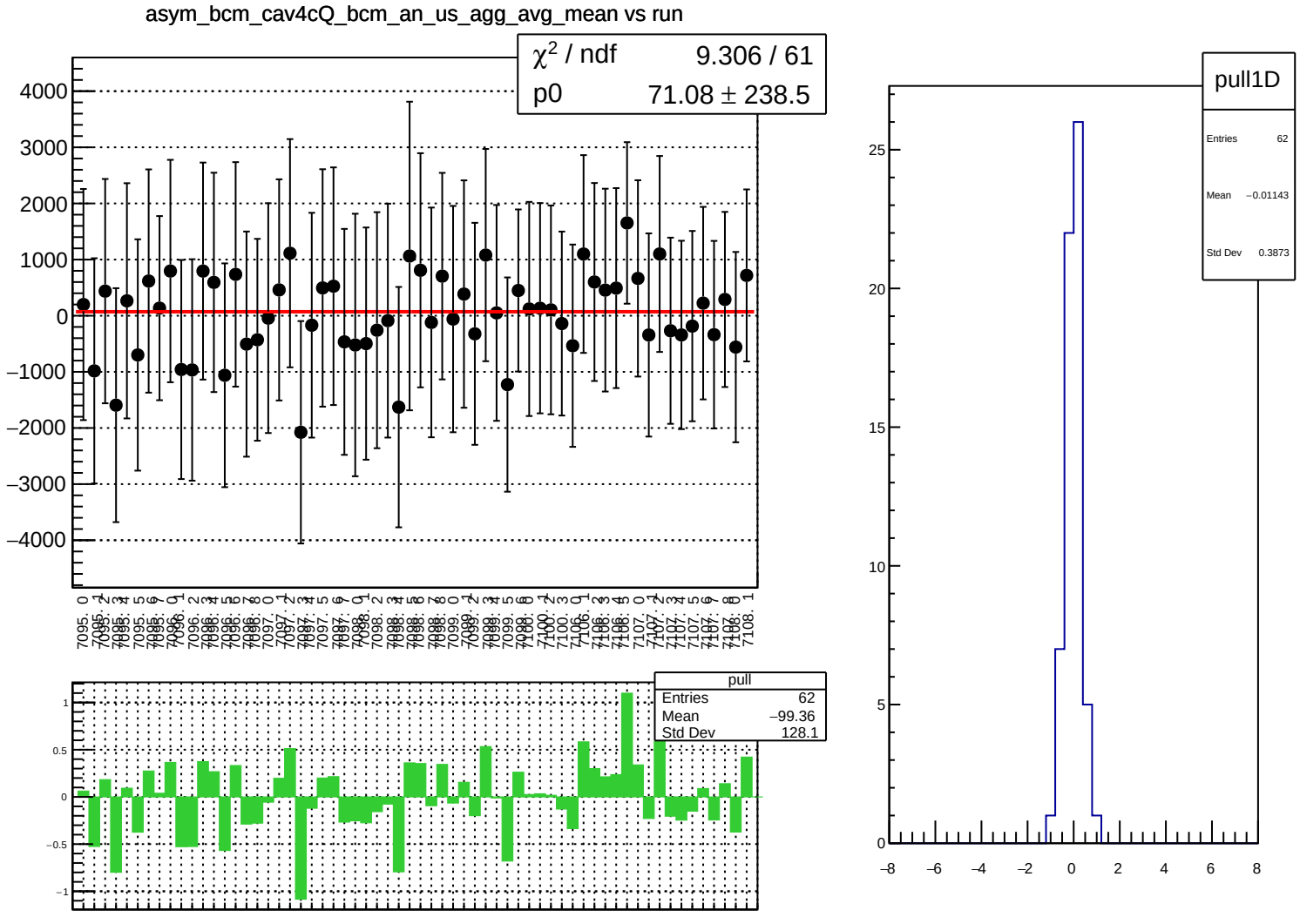

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.591 / 61
p0 81.78 ± 248.2
pull
Entries 62
Mean −66.19
Std Dev 90.61
pull1D
Entries 62
Mean −0.009516
Std Dev 0.3932

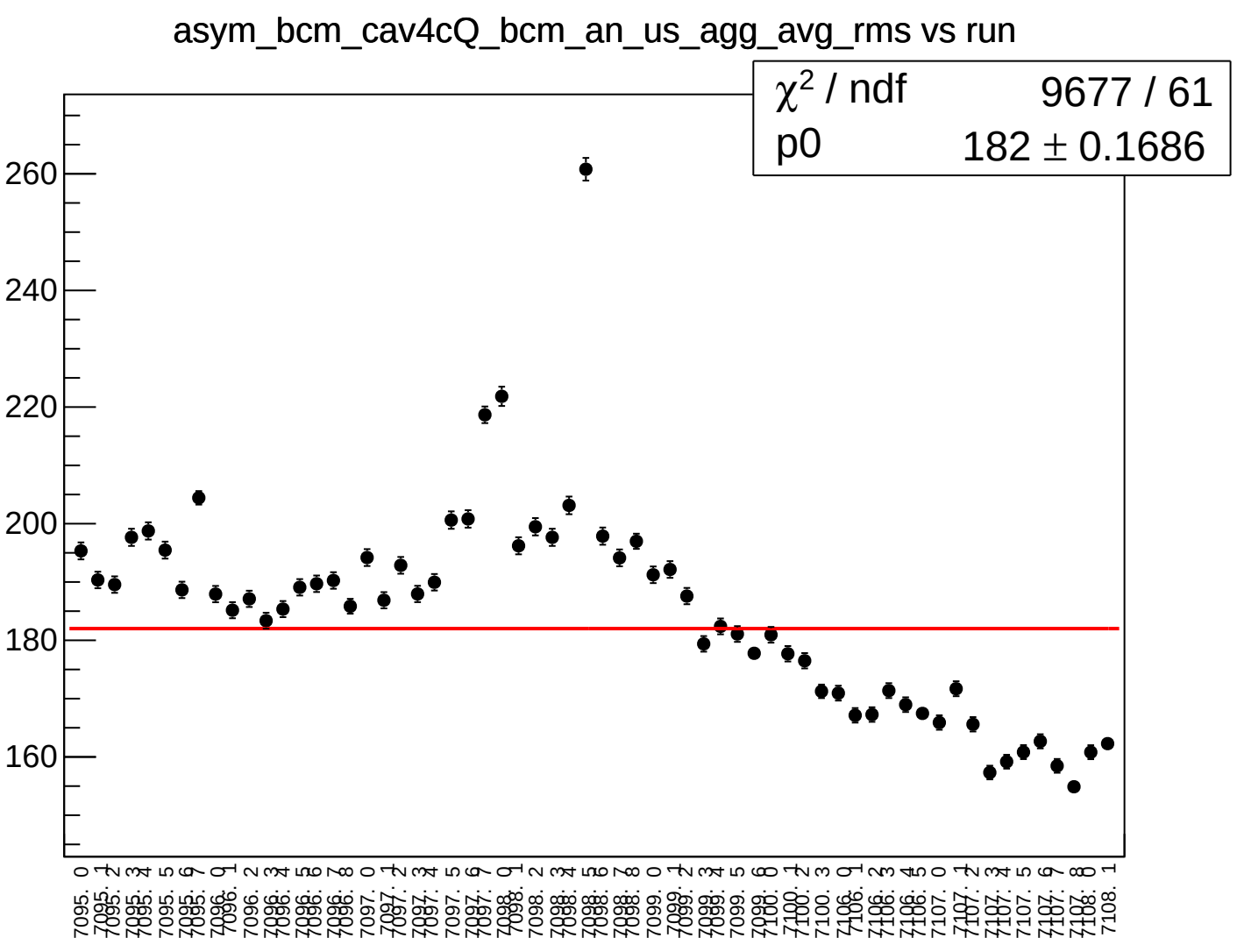

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 8192 / 61
p0 189.6 ± 0.1755
280
260
240
220
200
180
160

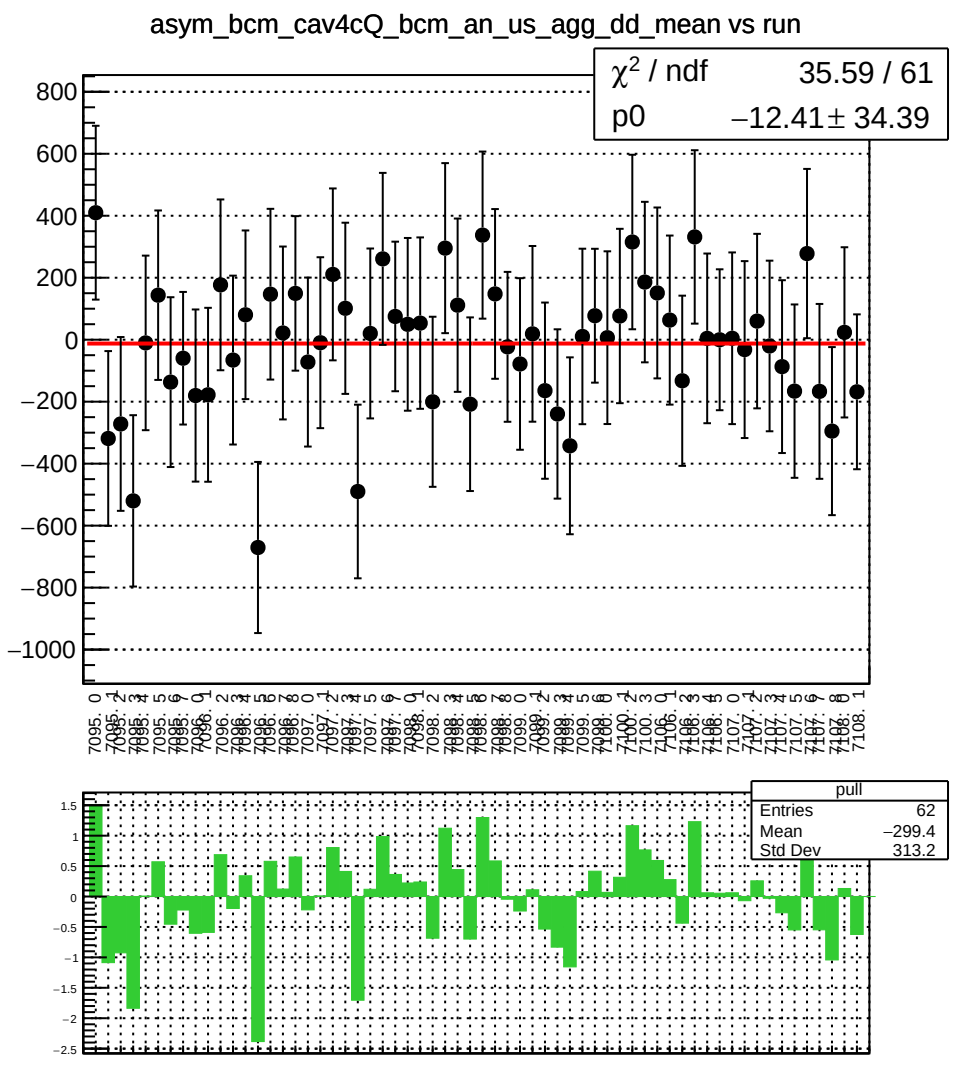

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 54.27 / 61
p0 −21.47 ± 32.58
pull
Entries 62
Mean 328.3
Std Dev 290.6

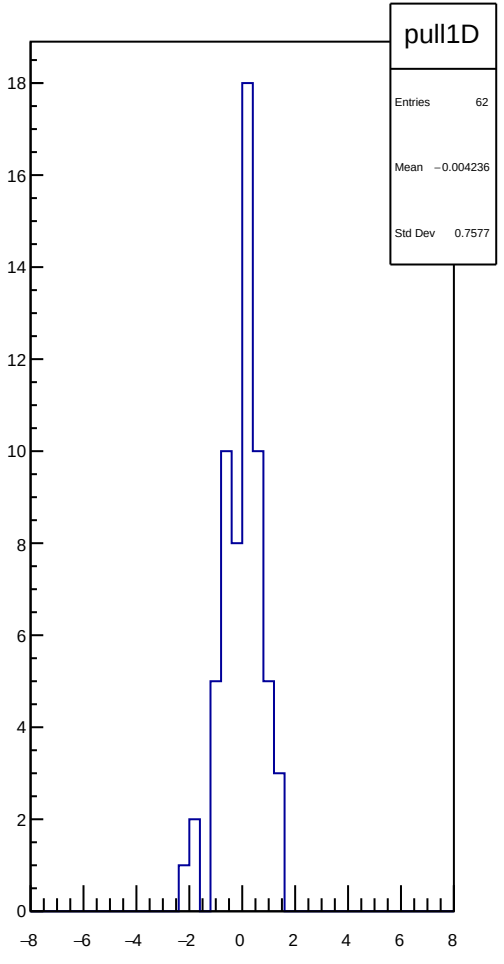

pull1D
Entries 62
Mean −0.01169
Std Dev 0.9355

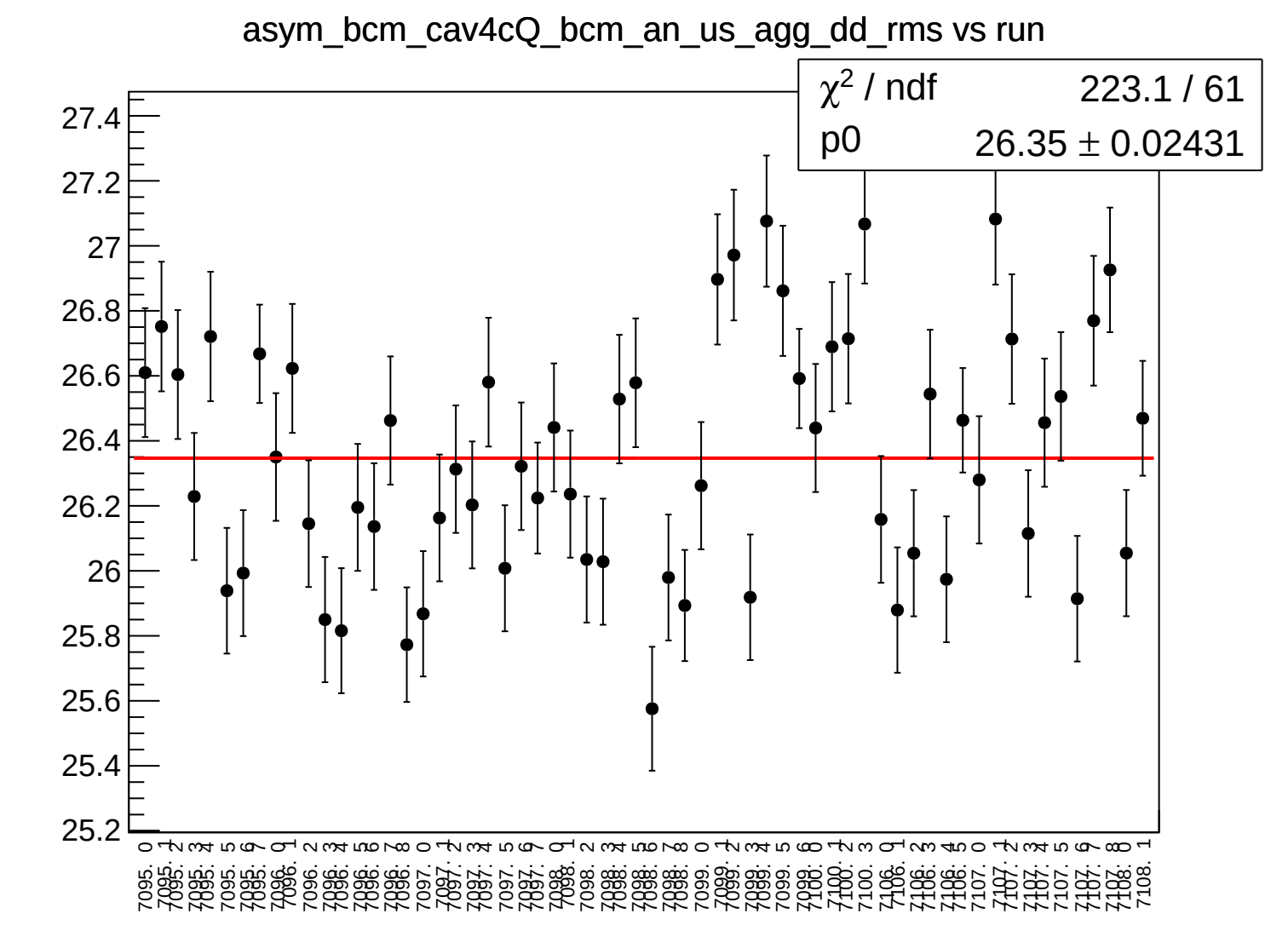

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2633 / 61
p0 24.94 ± 0.02304
29
28
27
26
25
24
23
22

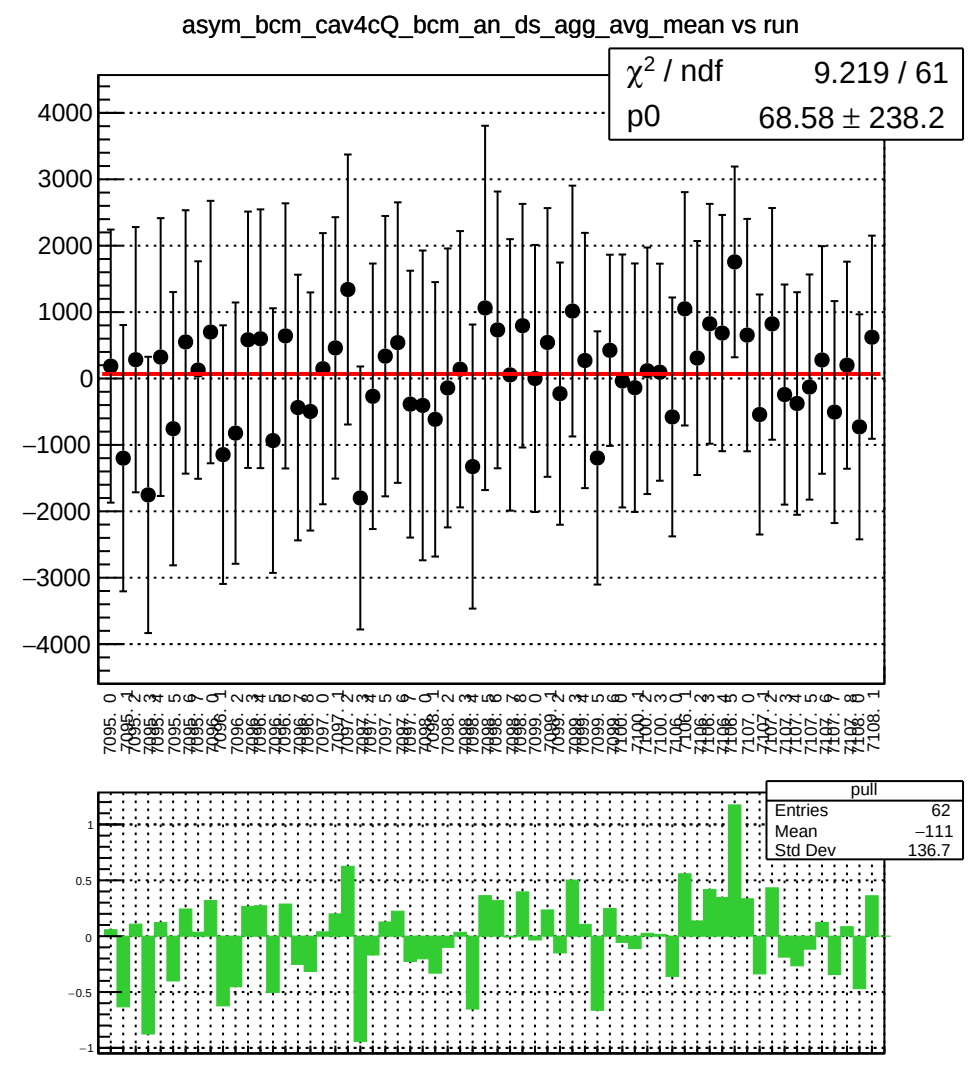

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.306 / 61
p0 71.08 ± 238.5
pull
Entries 62
Mean −99.36
Std Dev 128.1
pull1D
Entries 62
Mean −0.01143
Std Dev 0.3873

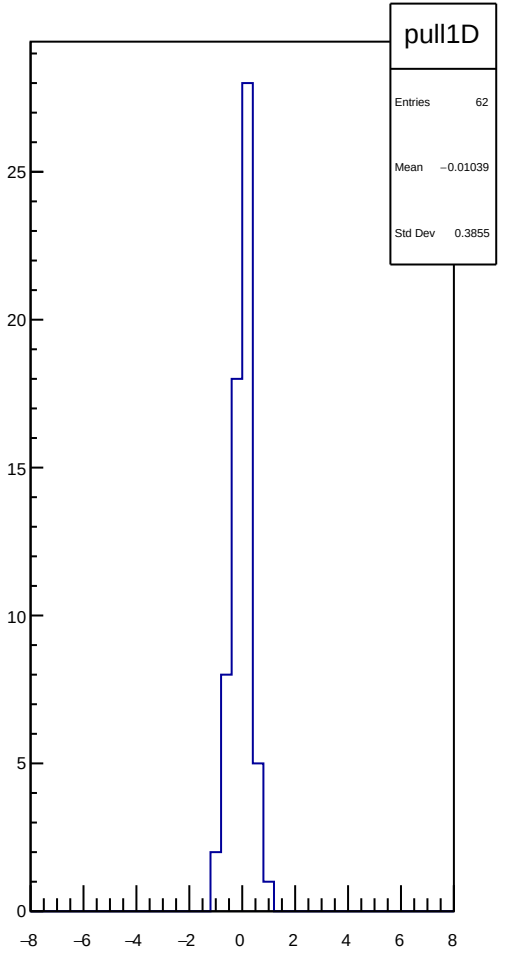

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 9677 / 61
p0 182 ± 0.1686
260
240
220
200
180
160

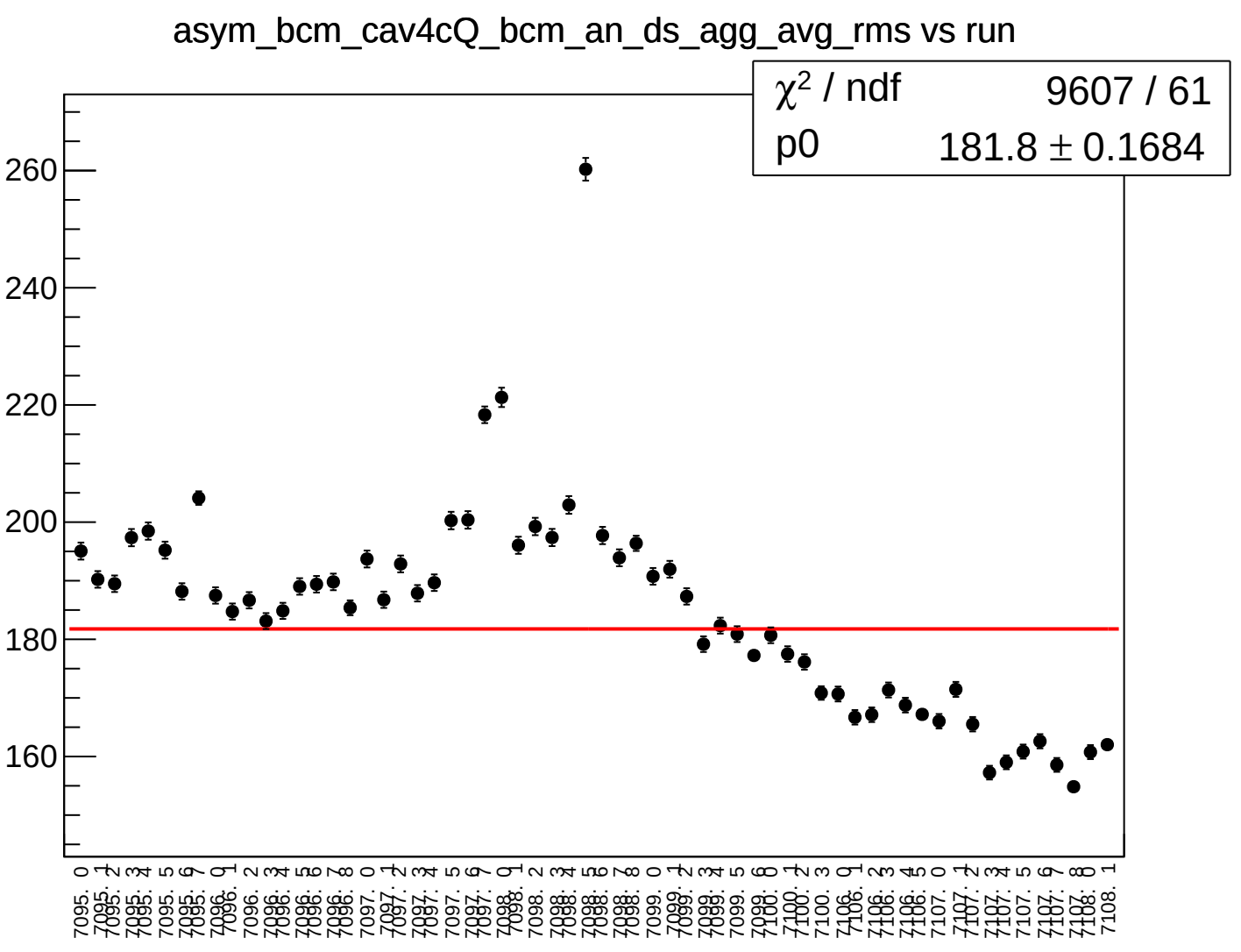

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 35.59 / 61
p0 −12.41 ± 34.39
pull
Entries 62
Mean −299.4
Std Dev 313.2

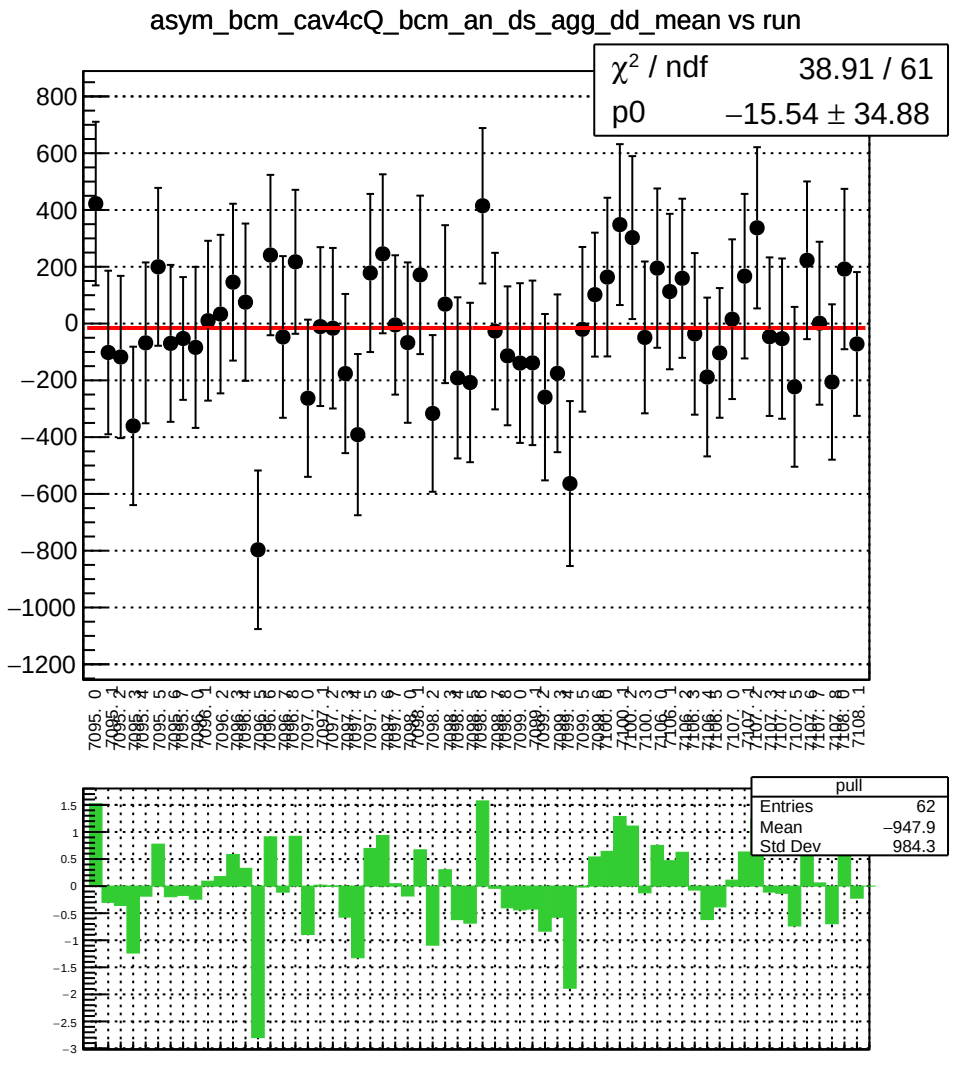

pull1D
Entries 62
Mean −0.004236
Std Dev 0.7577

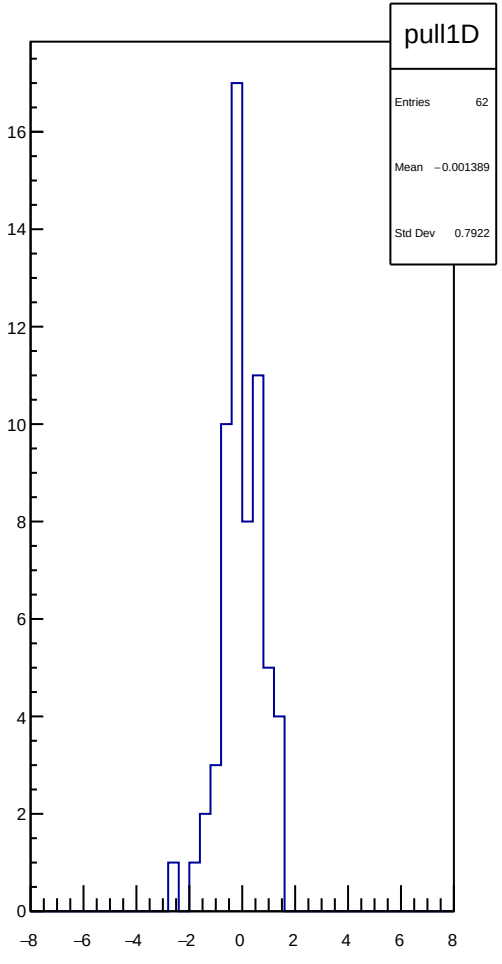

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 223.1 / 61
p0 26.35 ± 0.02431
27.4
27.2
27
26.8
26.6
26.4
26.2
26
25.8
25.6
25.4
25.2

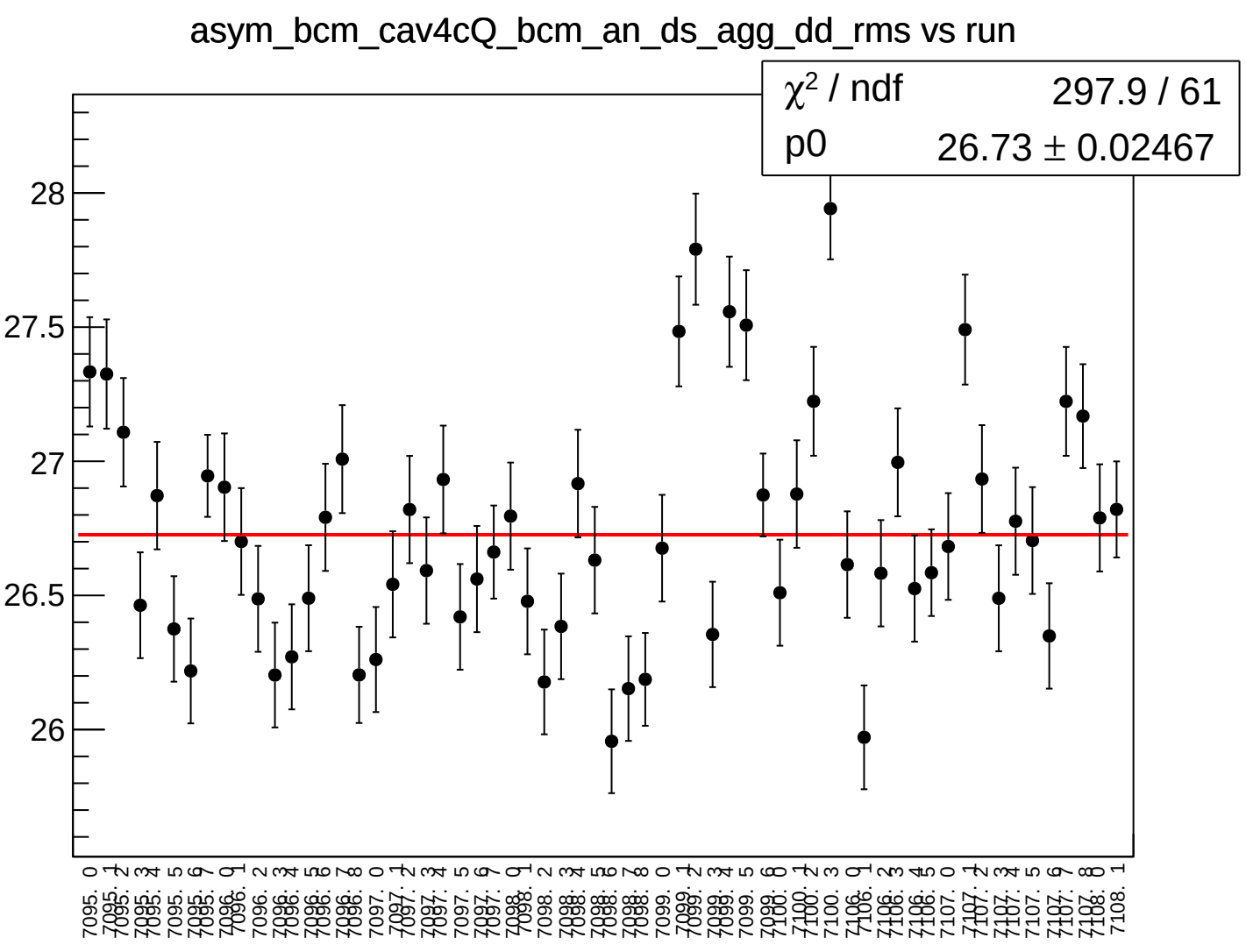

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.219 / 61
p0 68.58 ± 238.2
pull
Entries 62
Mean −111
Std Dev 136.7

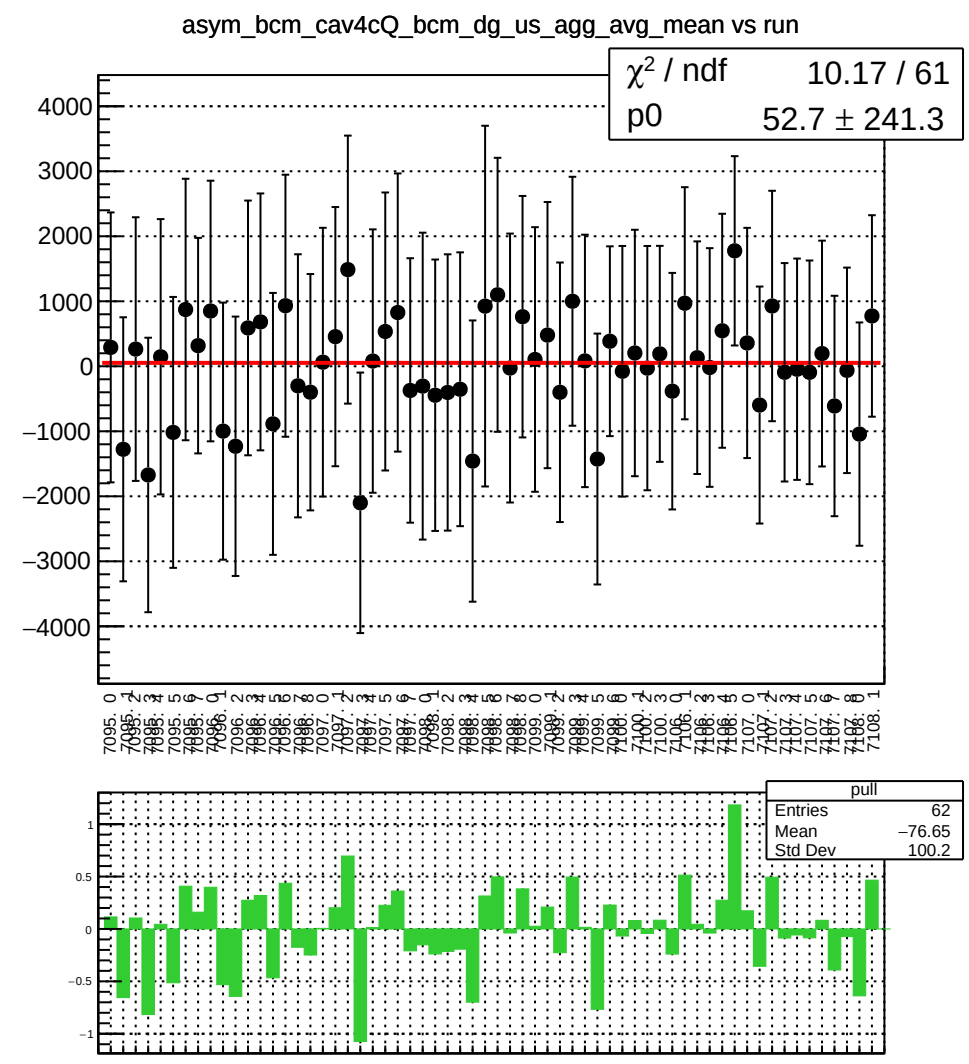

pull1D
Entries 62
Mean −0.01039
Std Dev 0.3855

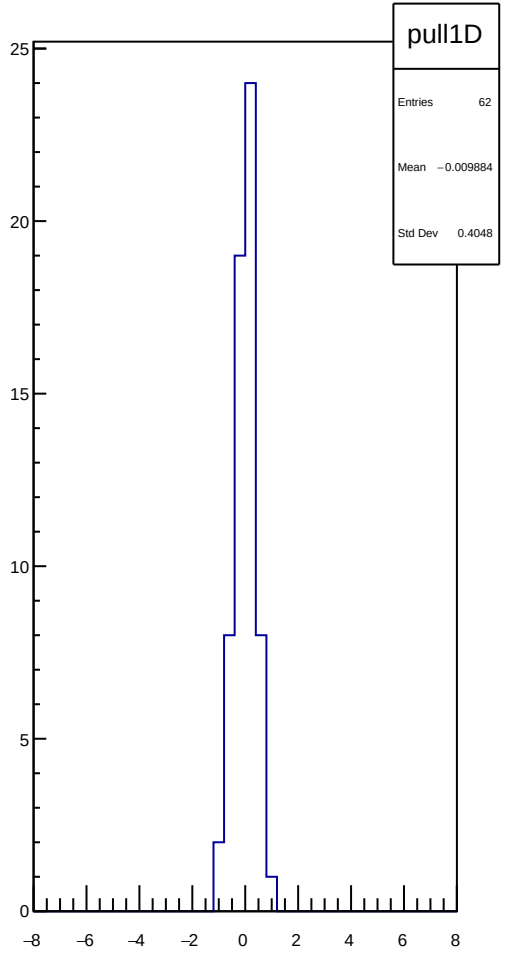

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 9607 / 61
p0 181.8 ± 0.1684
260
240
220
200
180
160

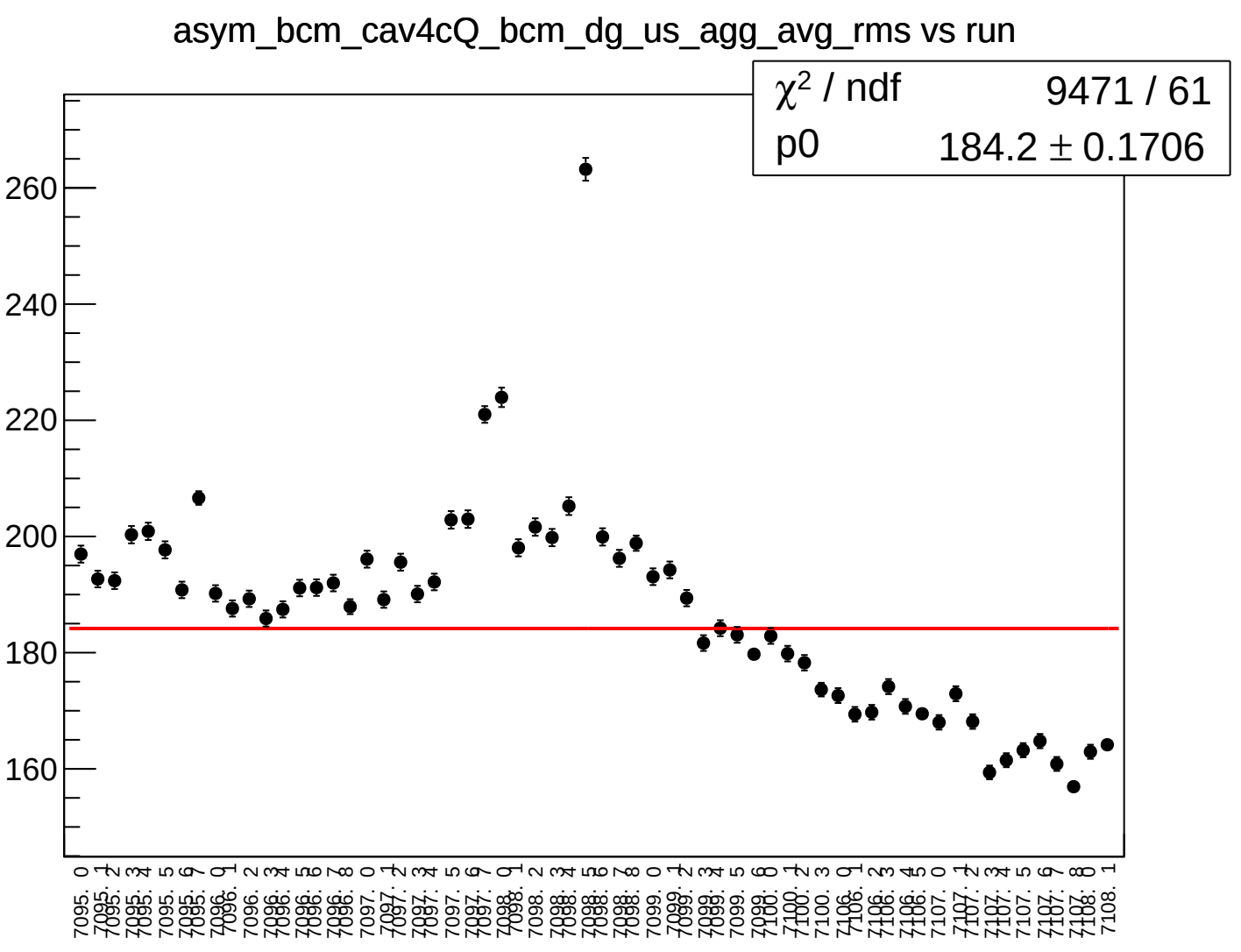

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 38.91 / 61
p0 −15.54 ± 34.88
pull
Entries 62
Mean −947.9
Std Dev 984.3

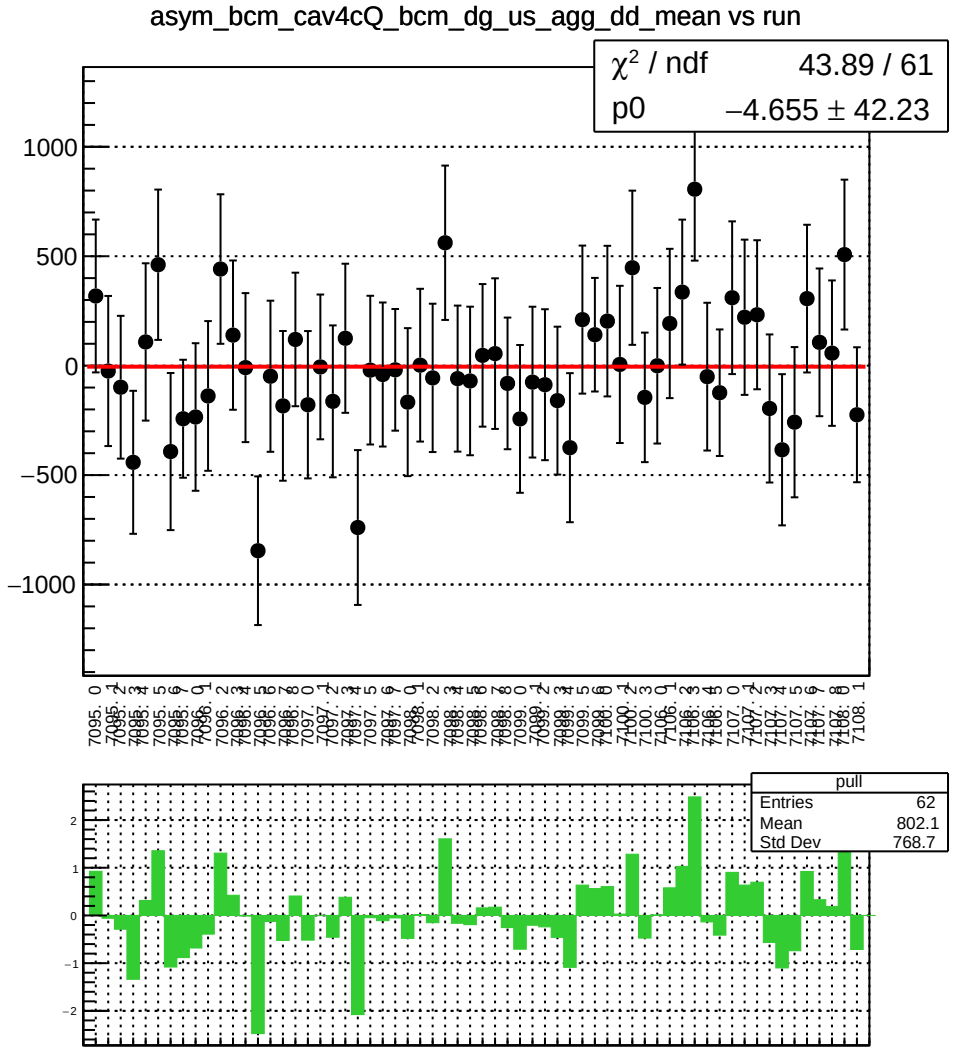

pull1D
Entries 62
Mean −0.001389
Std Dev 0.7922

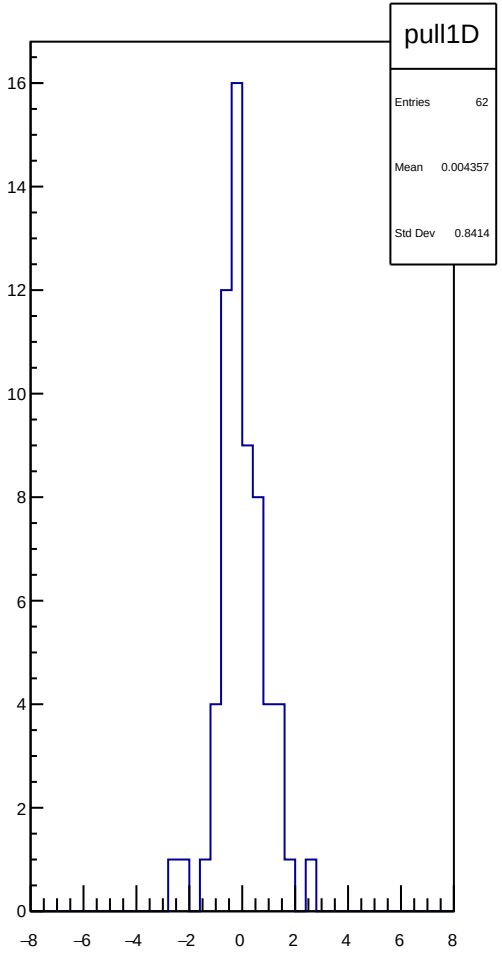

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 297.9 / 61
p0 26.73 ± 0.02467
28
27.5
27
26.5
26

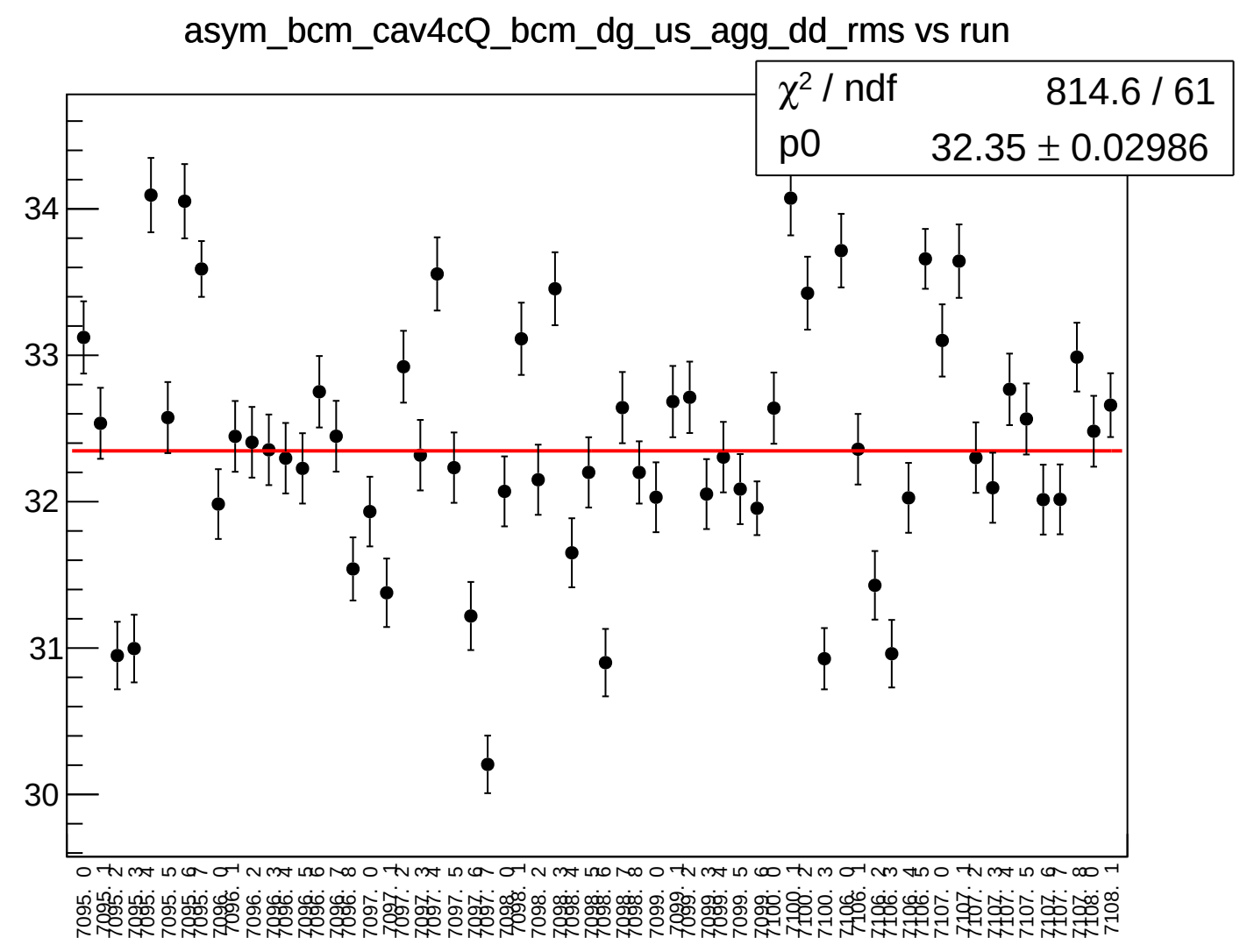

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 10.17 / 61
p0 52.7 ± 241.3
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 62
Mean −76.65
Std Dev 100.2
1
0.5
0
−0.5
−1

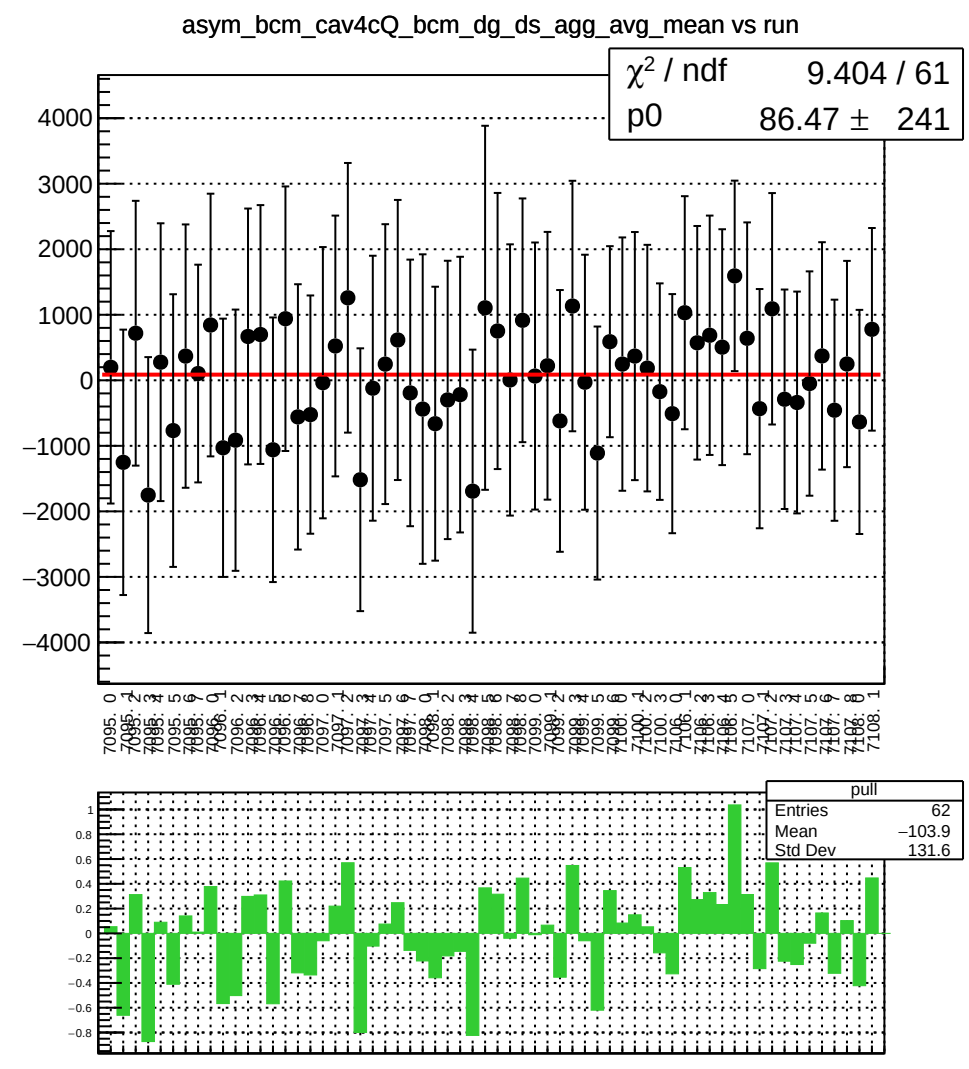

pull1D
Entries 62
Mean −0.009884
Std Dev 0.4048
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

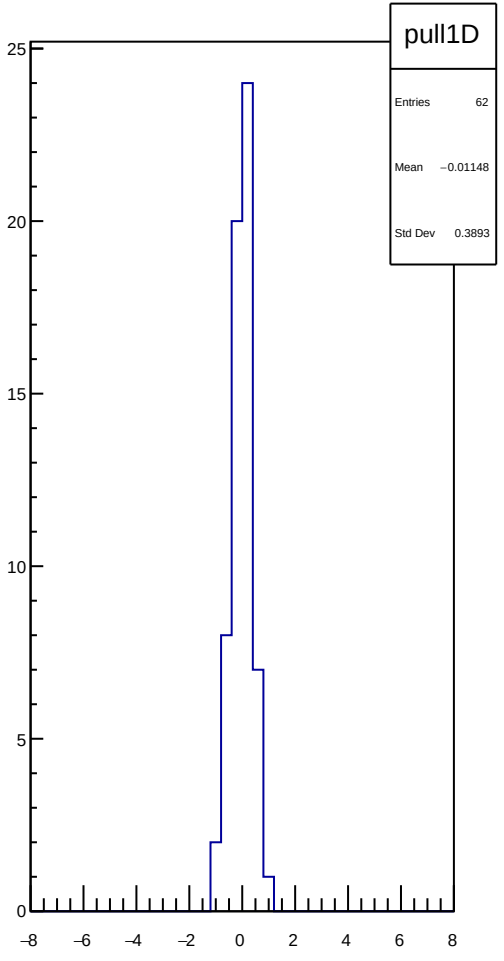

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 9471 / 61
p0 184.2 ± 0.1706
260
240
220
200
180
160

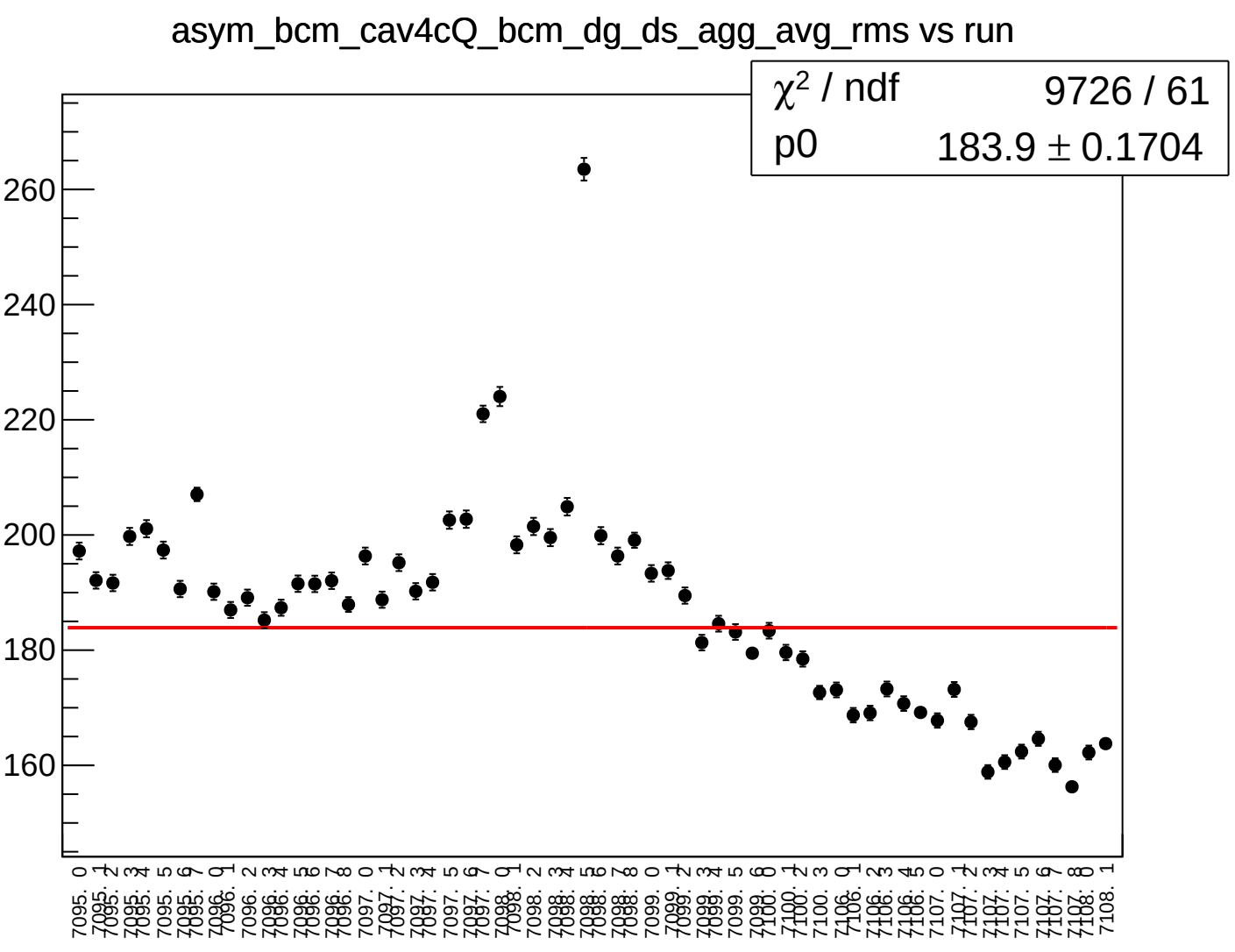

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 43.89 / 61
p0 −4.655 ± 42.23
1000
500
0
−500
−1000
pull
Entries 62
Mean 802.1
Std Dev 768.7
2
1
0
−1
−2

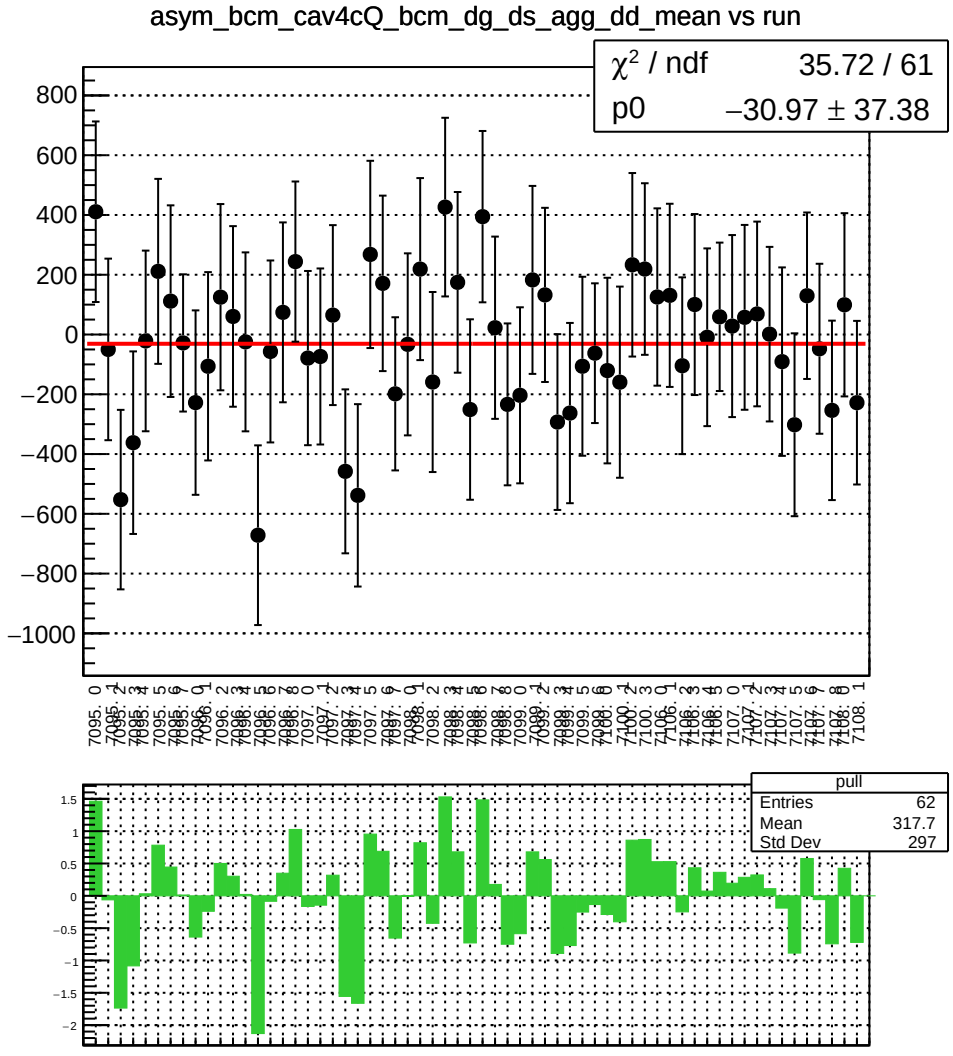

pull1D
Entries 62
Mean 0.004357
Std Dev 0.8414
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

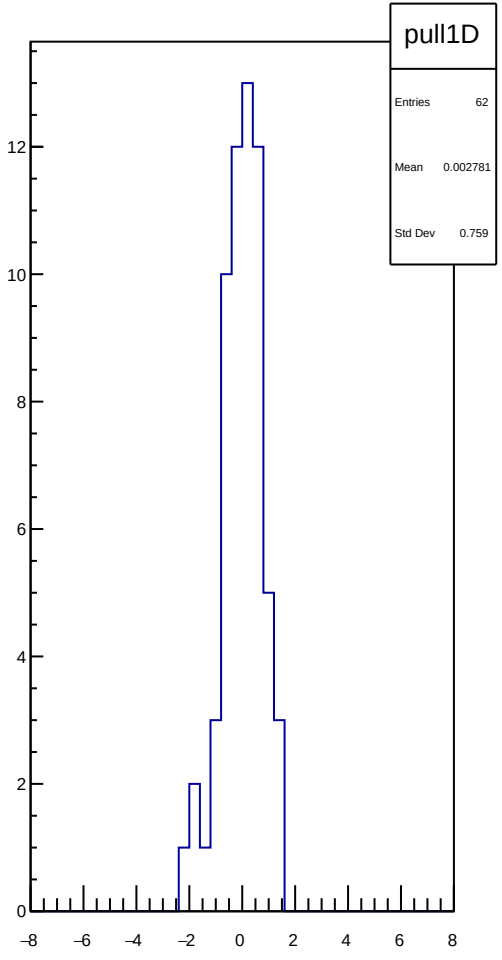

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 814.6 / 61
p0 32.35 ± 0.02986
34
33
32
31
30
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

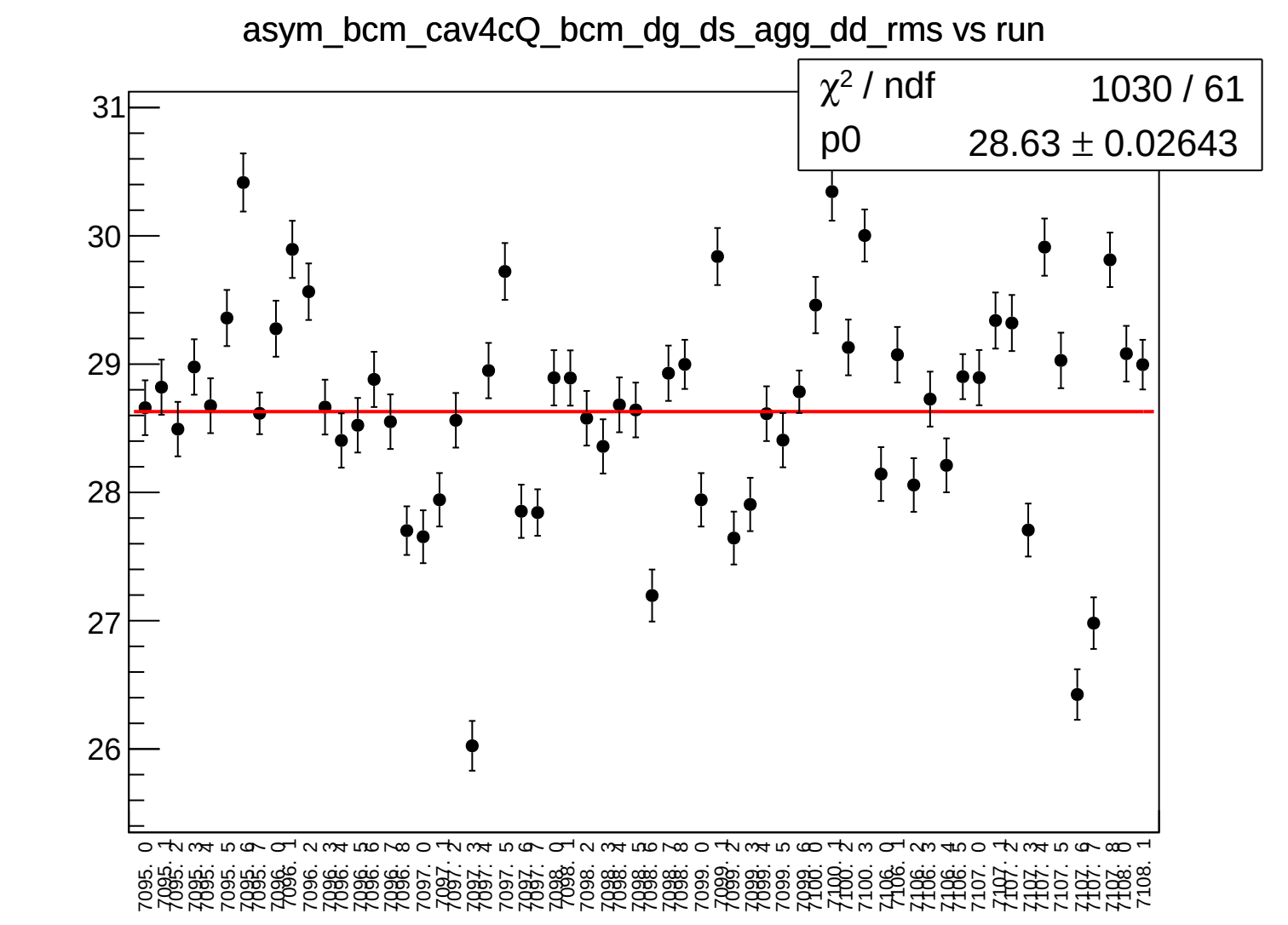

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.404 / 61
p0 86.47 ± 241
pull
Entries 62
Mean −103.9
Std Dev 131.6

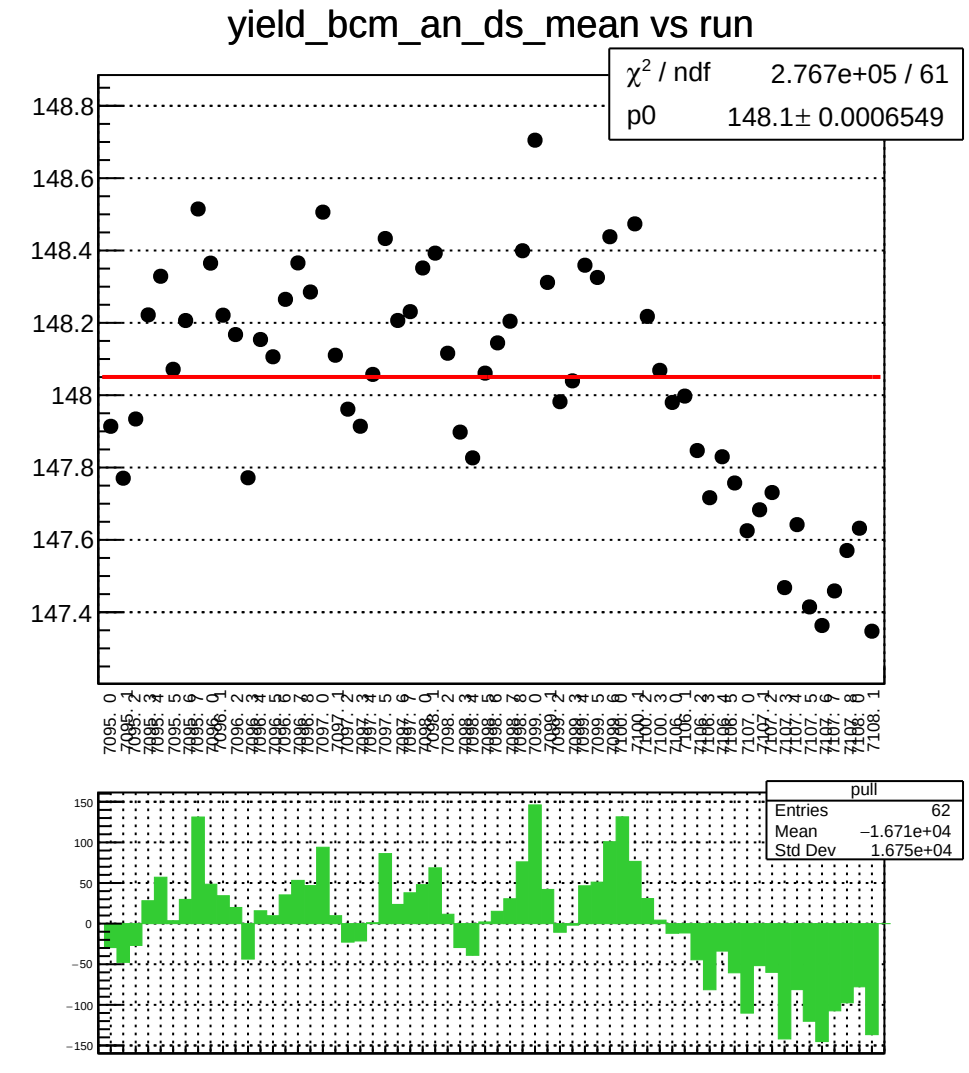

pull1D
Entries 62
Mean −0.01148
Std Dev 0.3893

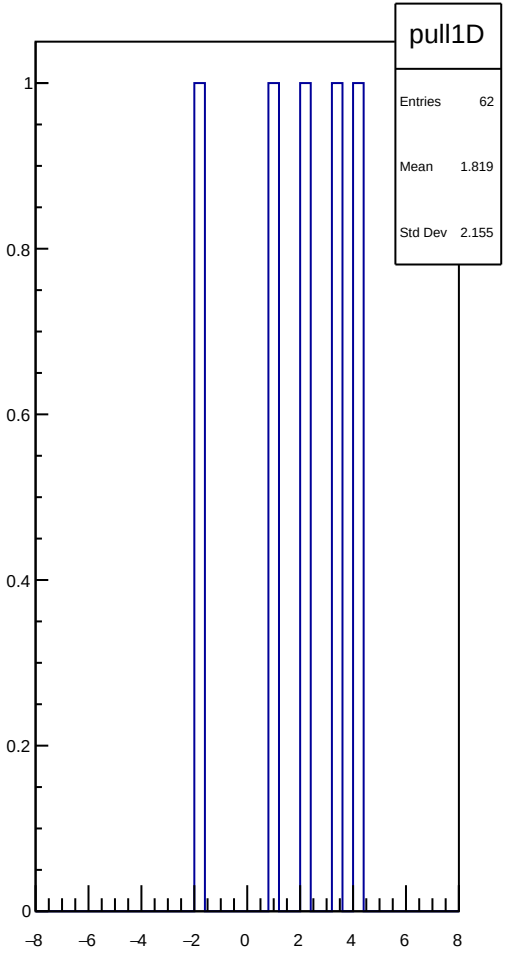

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 9726 / 61
p0 183.9 ± 0.1704
260
240
220
200
180
160

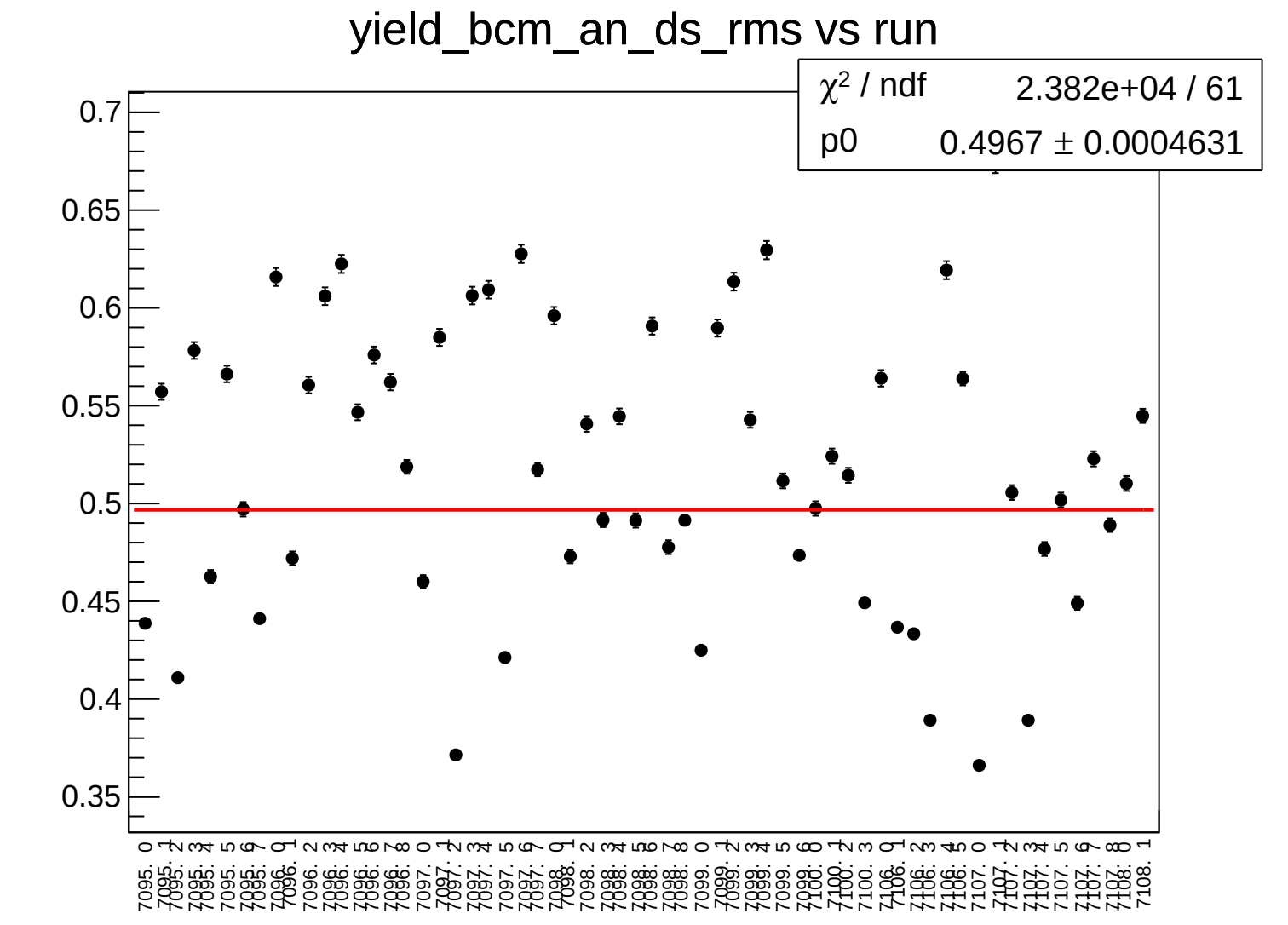

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 35.72 / 61
p0 −30.97 ± 37.38
pull
Entries 62
Mean 317.7
Std Dev 297

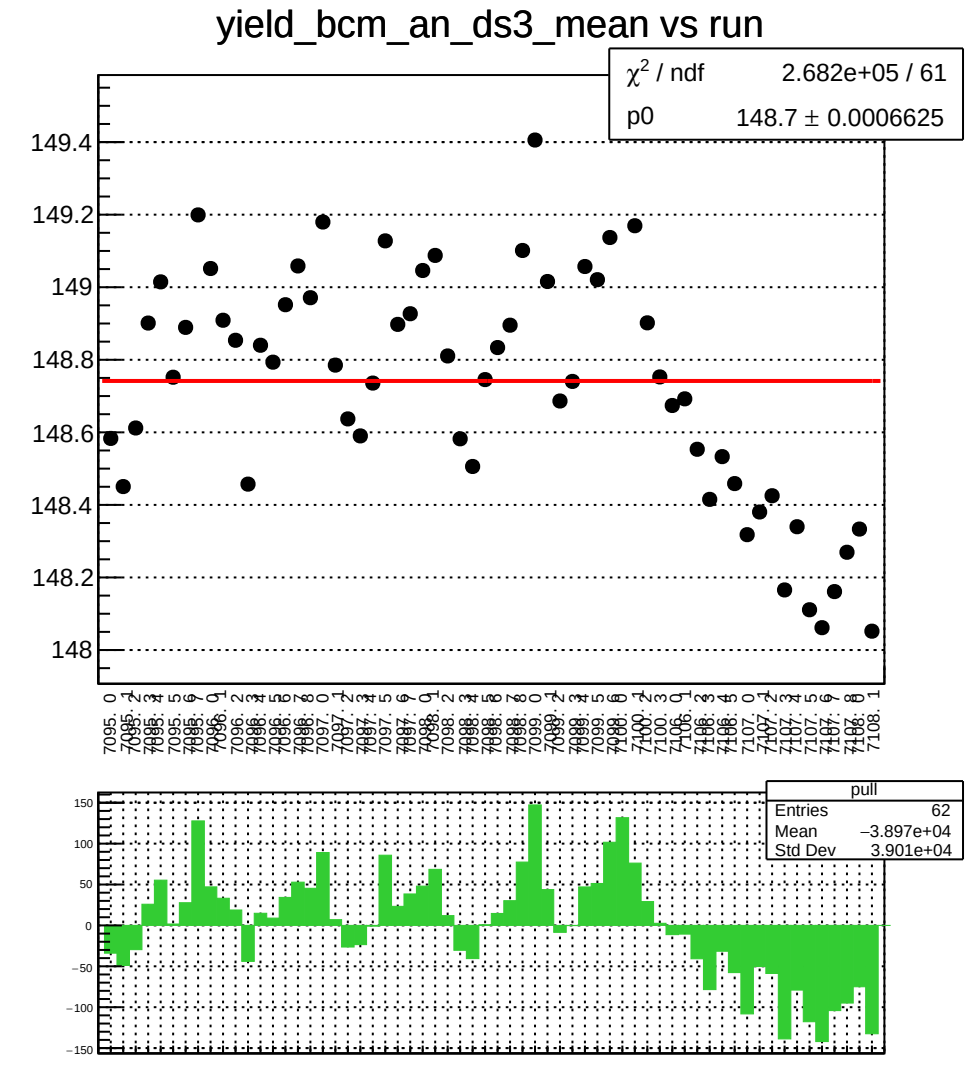

pull1D
Entries 62
Mean 0.002781
Std Dev 0.759

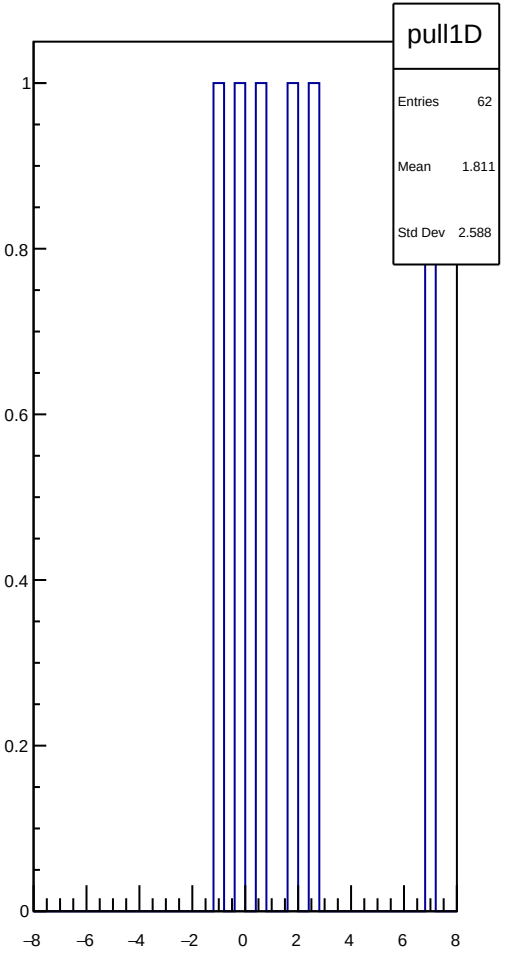

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1030 / 61
p0 28.63 ± 0.02643
31
30
29
28
27
26

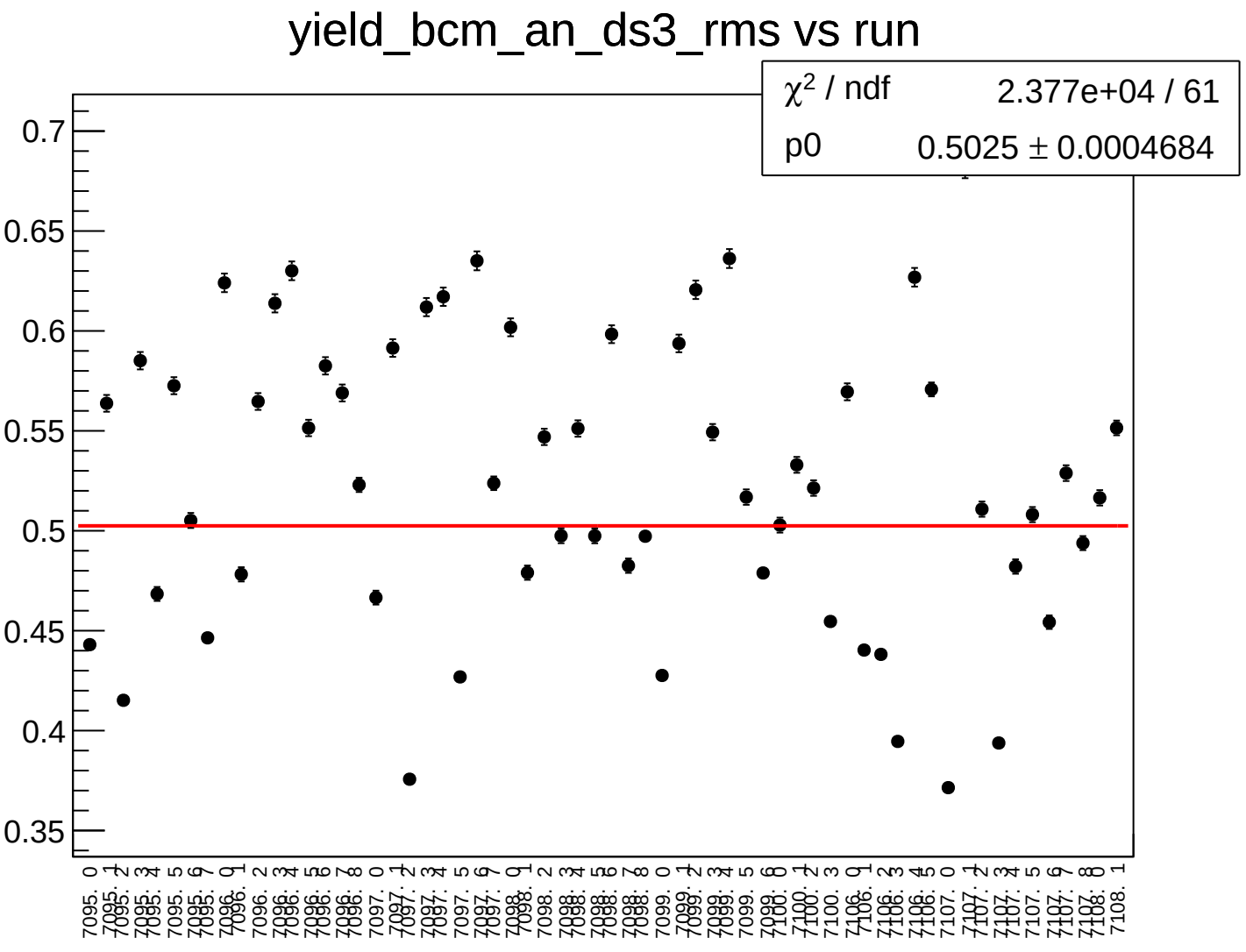

yield_bcm_an_ds_mean vs run
χ² / ndf 2.767e+05 / 61
p0 148.1± 0.0006549
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 62
Mean −1.671e+04
Std Dev 1.675e+04
150
100
50
0
−50
−100
−150

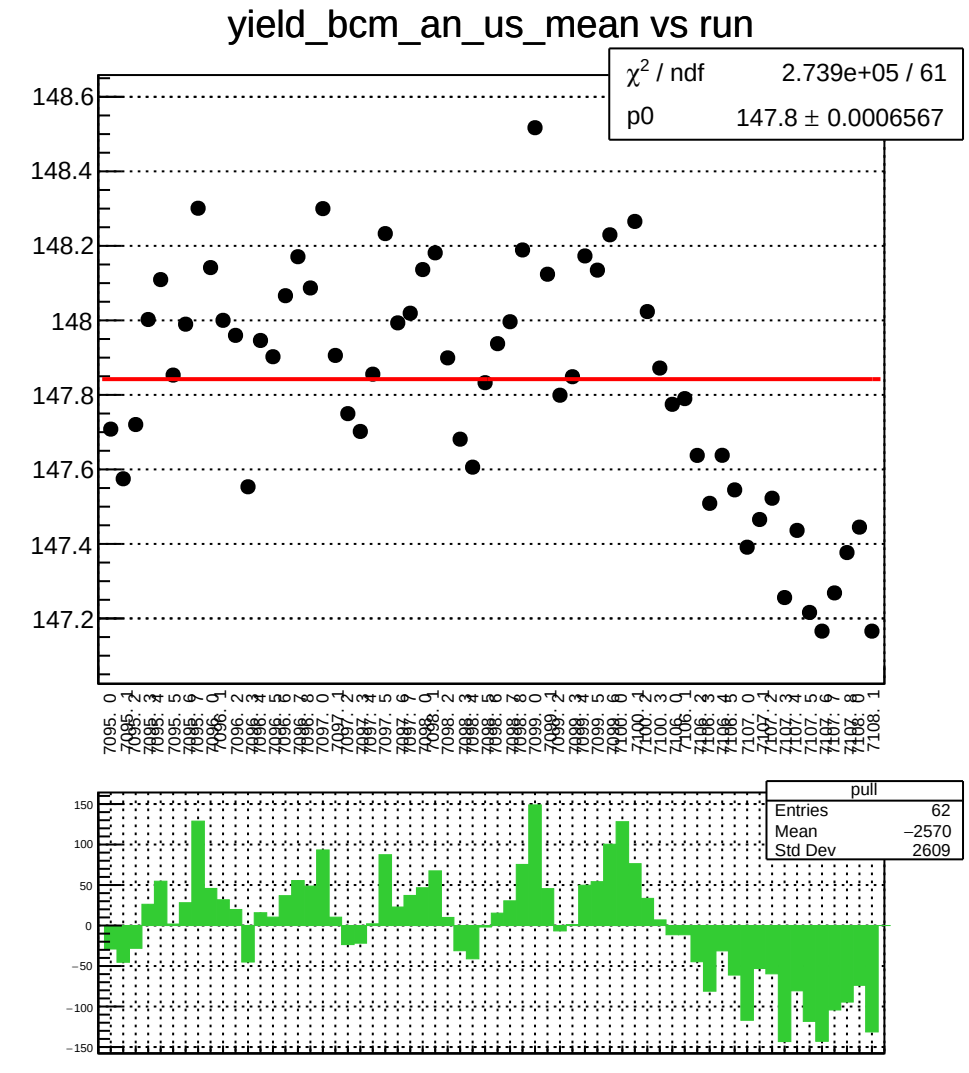

pull1D
Entries 62
Mean 1.819
Std Dev 2.155
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

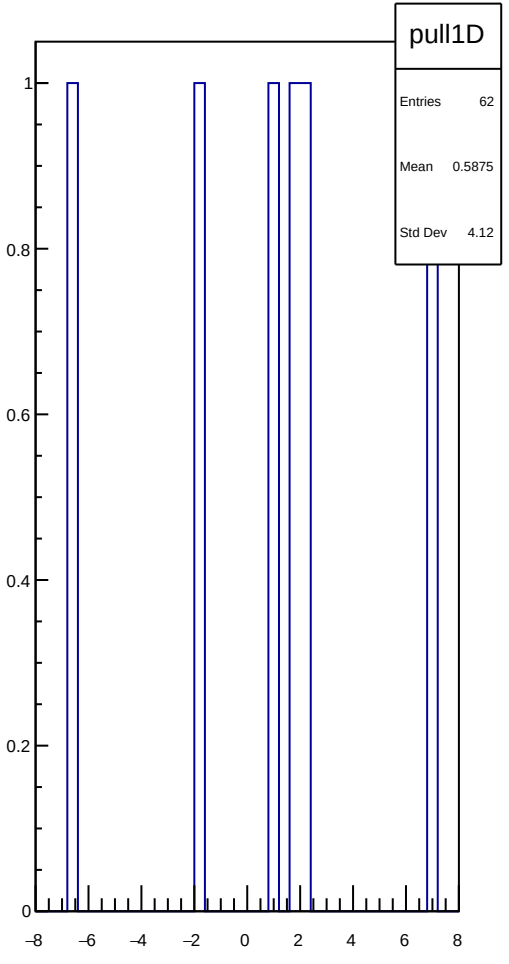

yield_bcm_an_ds_rms vs run
χ² / ndf 2.382e+04 / 61
p0 0.4967 ± 0.0004631
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

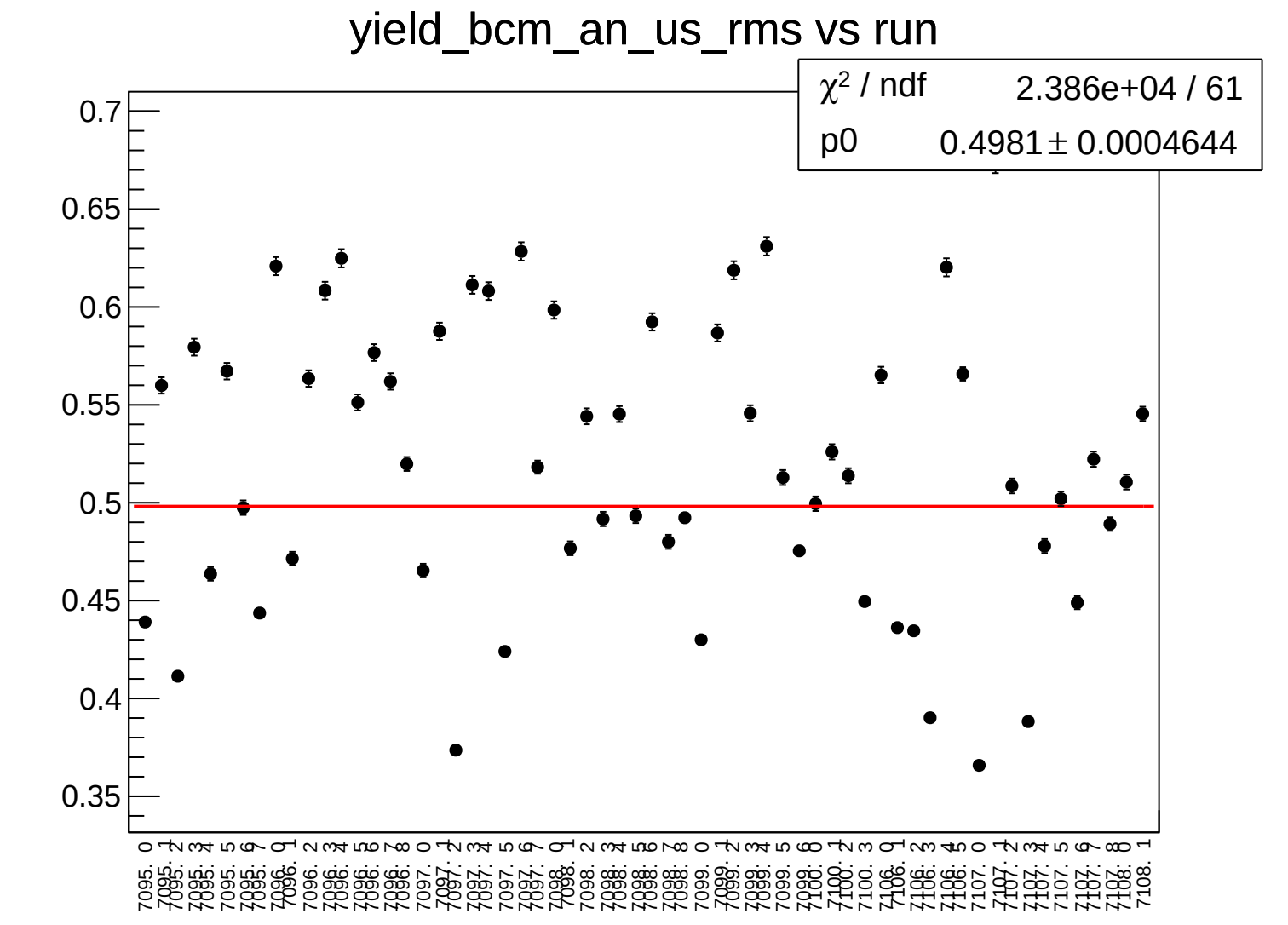

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.682e+05 / 61
p0 148.7 ± 0.0006625
149.4
149.2
149
148.8
148.6
148.4
148.2
148
pull
Entries 62
Mean −3.897e+04
Std Dev 3.901e+04
150
100
50
0
−50
−100
−150

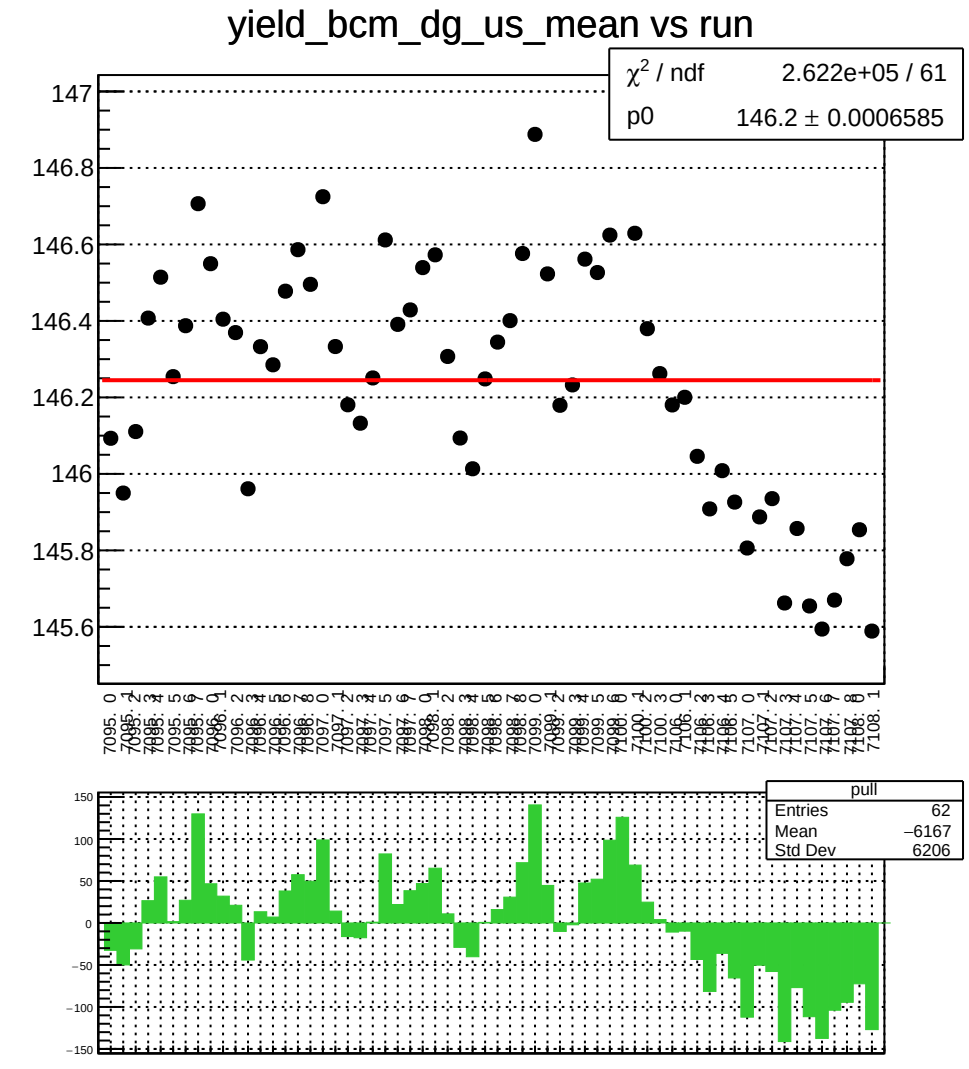

pull1D
Entries 62
Mean 1.811
Std Dev 2.588
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

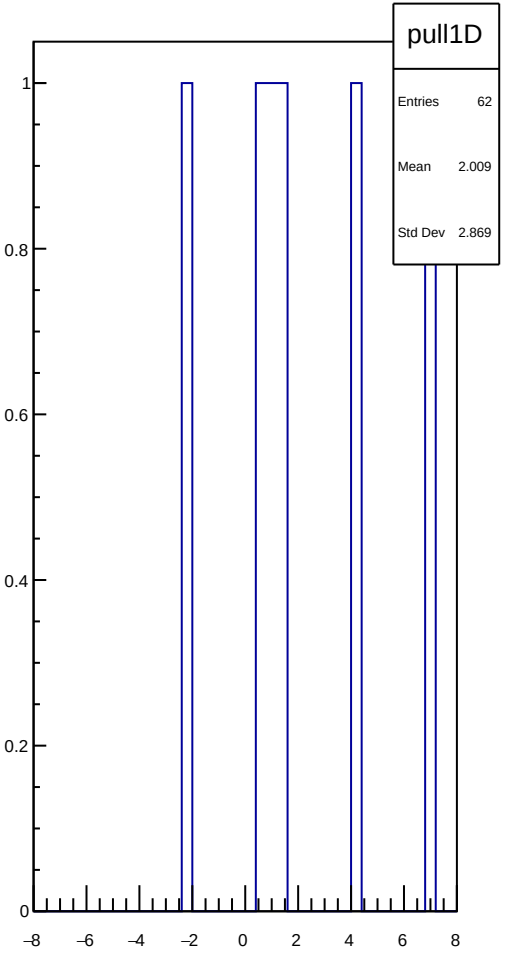

yield_bcm_an_ds3_rms vs run
χ² / ndf 2.377e+04 / 61
p0 0.5025 ± 0.0004684
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

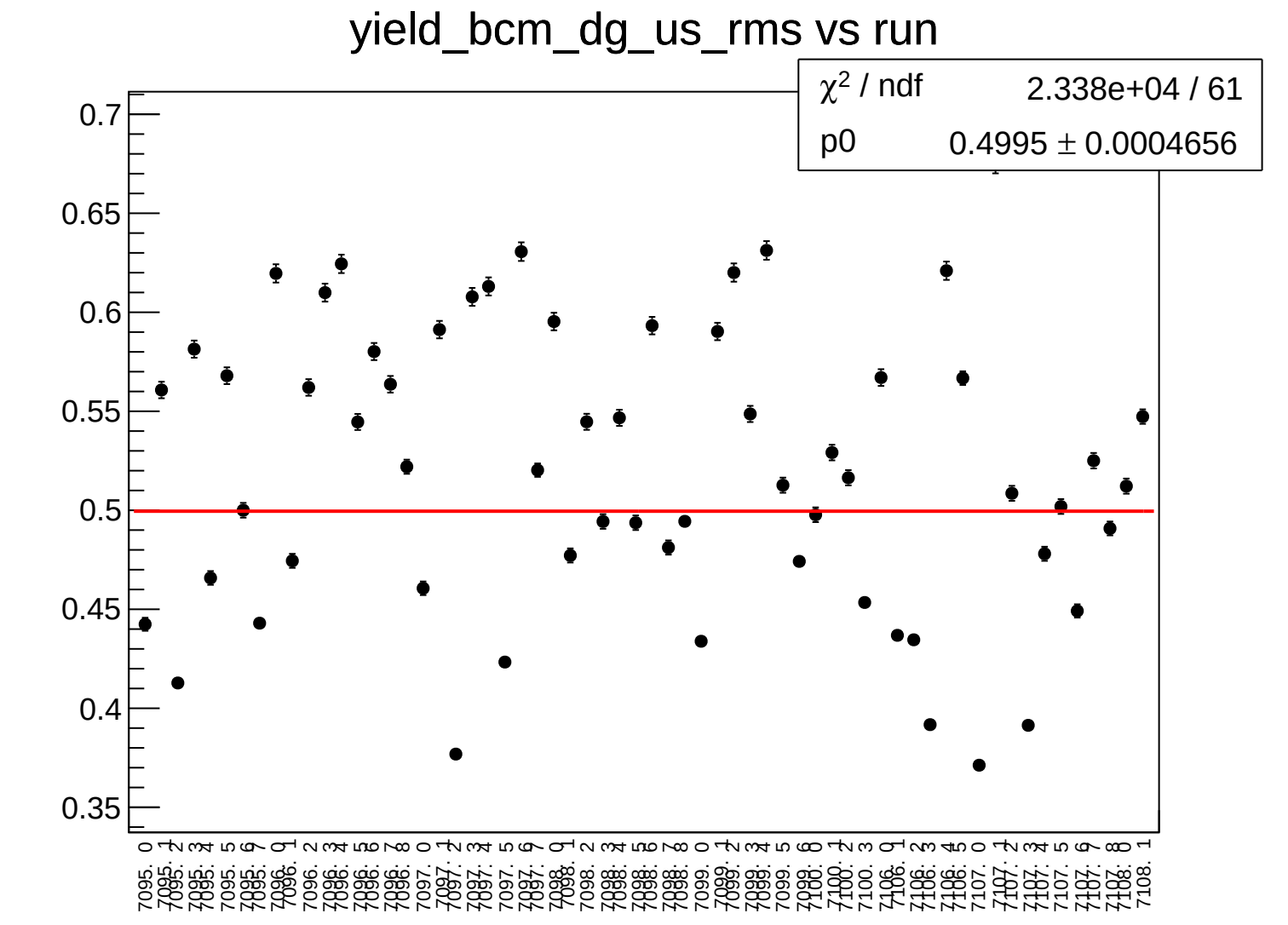

yield_bcm_an_us_mean vs run
χ² / ndf 2.739e+05 / 61
p0 147.8 ± 0.0006567
148.6
148.4
148.2
148
147.8
147.6
147.4
147.2
pull
Entries 62
Mean −2570
Std Dev 2609
150
100
50
0
−50
−100
−150

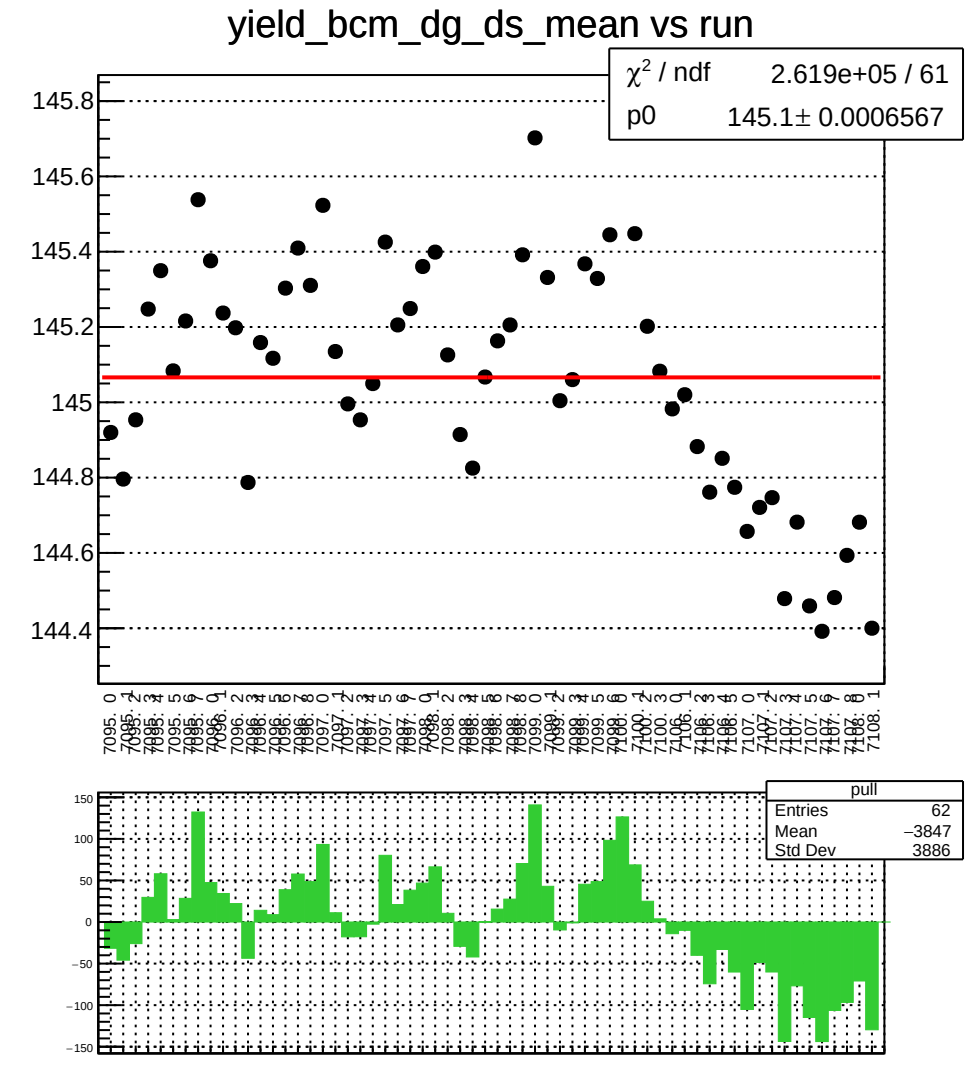

pull1D
Entries 62
Mean 0.5875
Std Dev 4.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

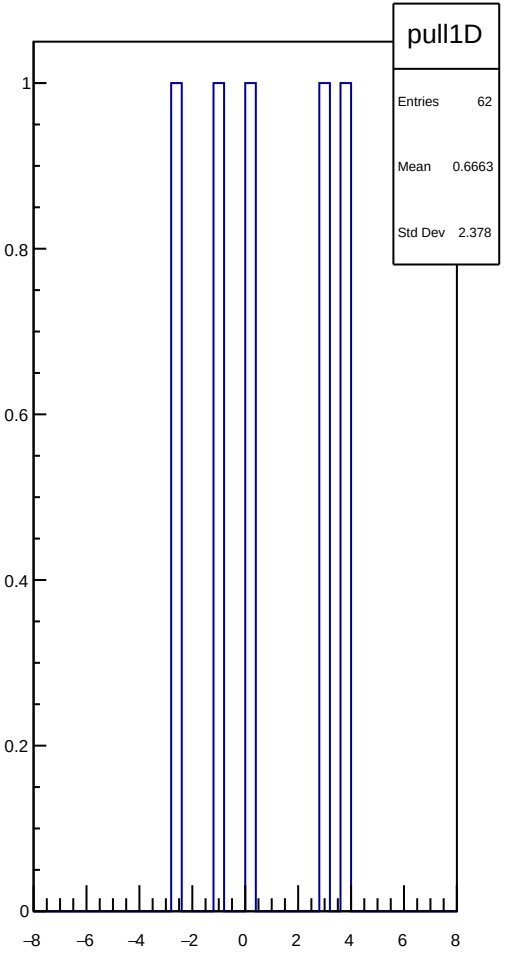

yield_bcm_an_us_rms vs run
χ² / ndf 2.386e+04 / 61
p0 0.4981 ± 0.0004644
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

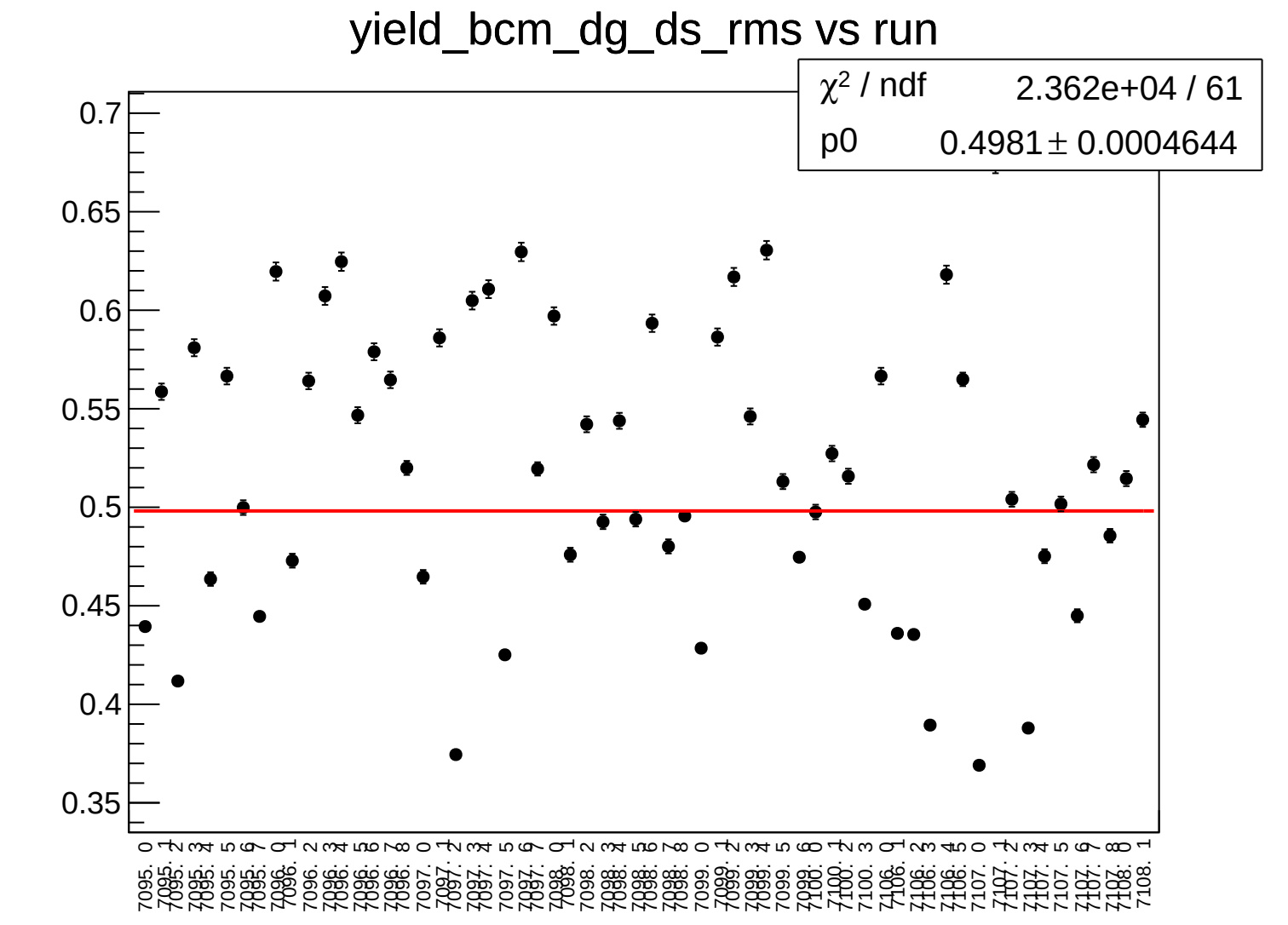

yield_bcm_dg_us_mean vs run
χ² / ndf 2.622e+05 / 61
p0 146.2 ± 0.0006585
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 62
Mean −6167
Std Dev 6206
150
100
50
0
−50
−100
−150

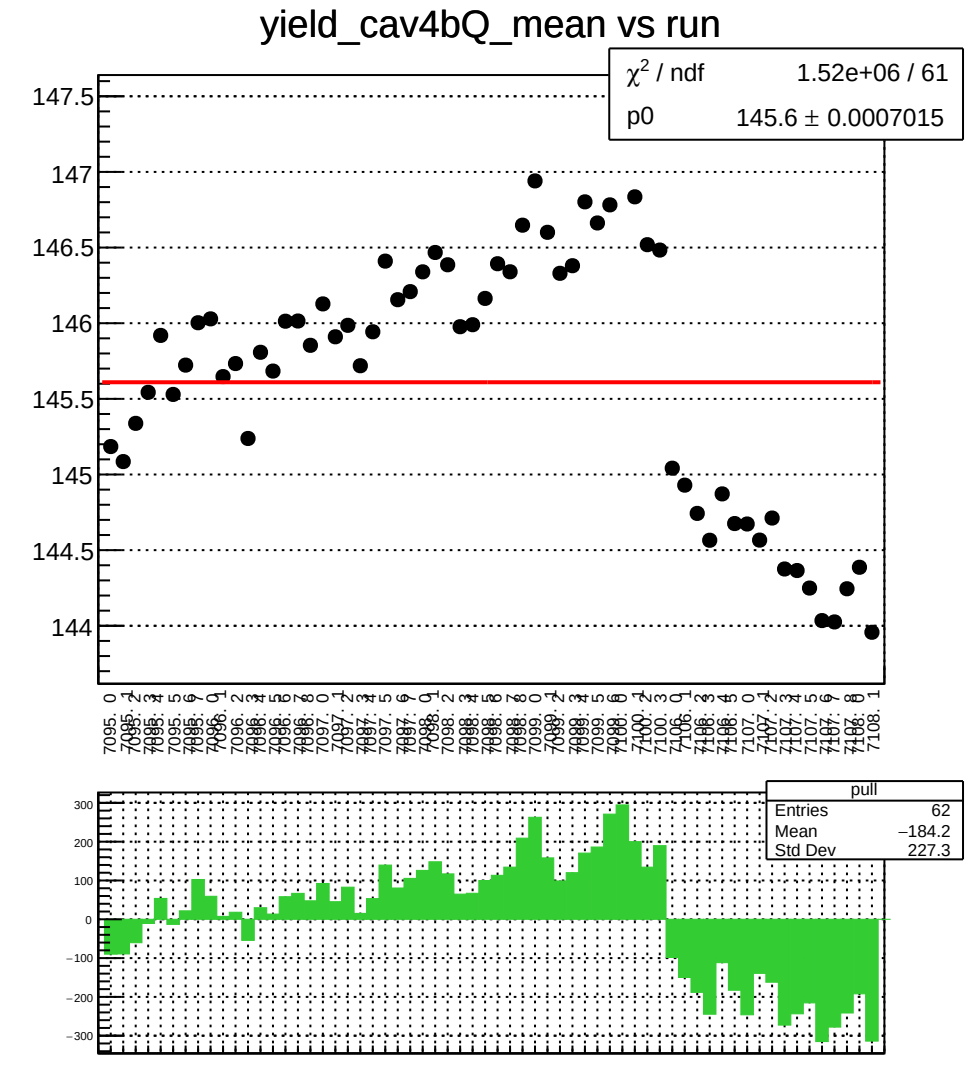

pull1D
Entries 62
Mean 2.009
Std Dev 2.869
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

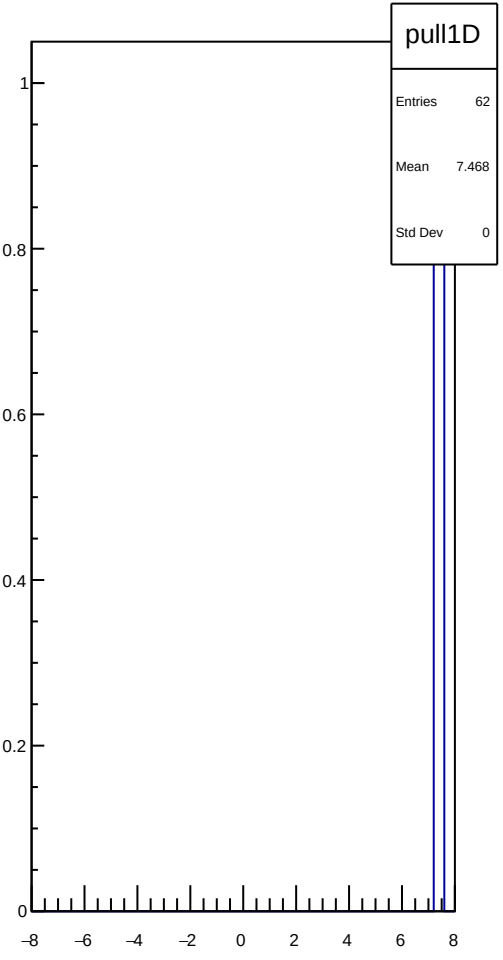

yield_bcm_dg_us_rms vs run
χ² / ndf 2.338e+04 / 61
p0 0.4995 ± 0.0004656
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35

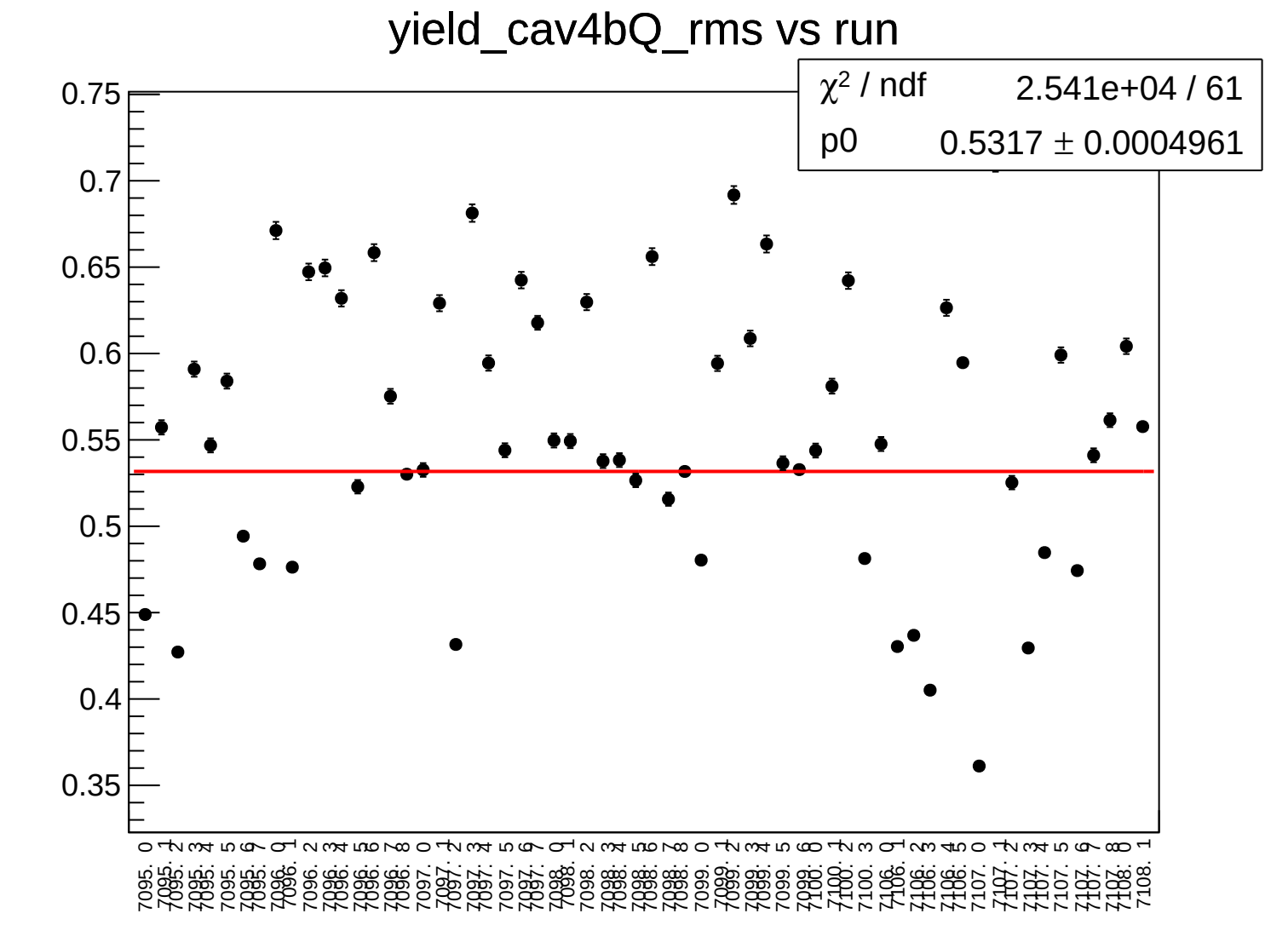

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.619e+05 / 61
p0 145.1± 0.0006567
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 62
Mean −3847
Std Dev 3886
150
100
50
0
−50
−100
−150

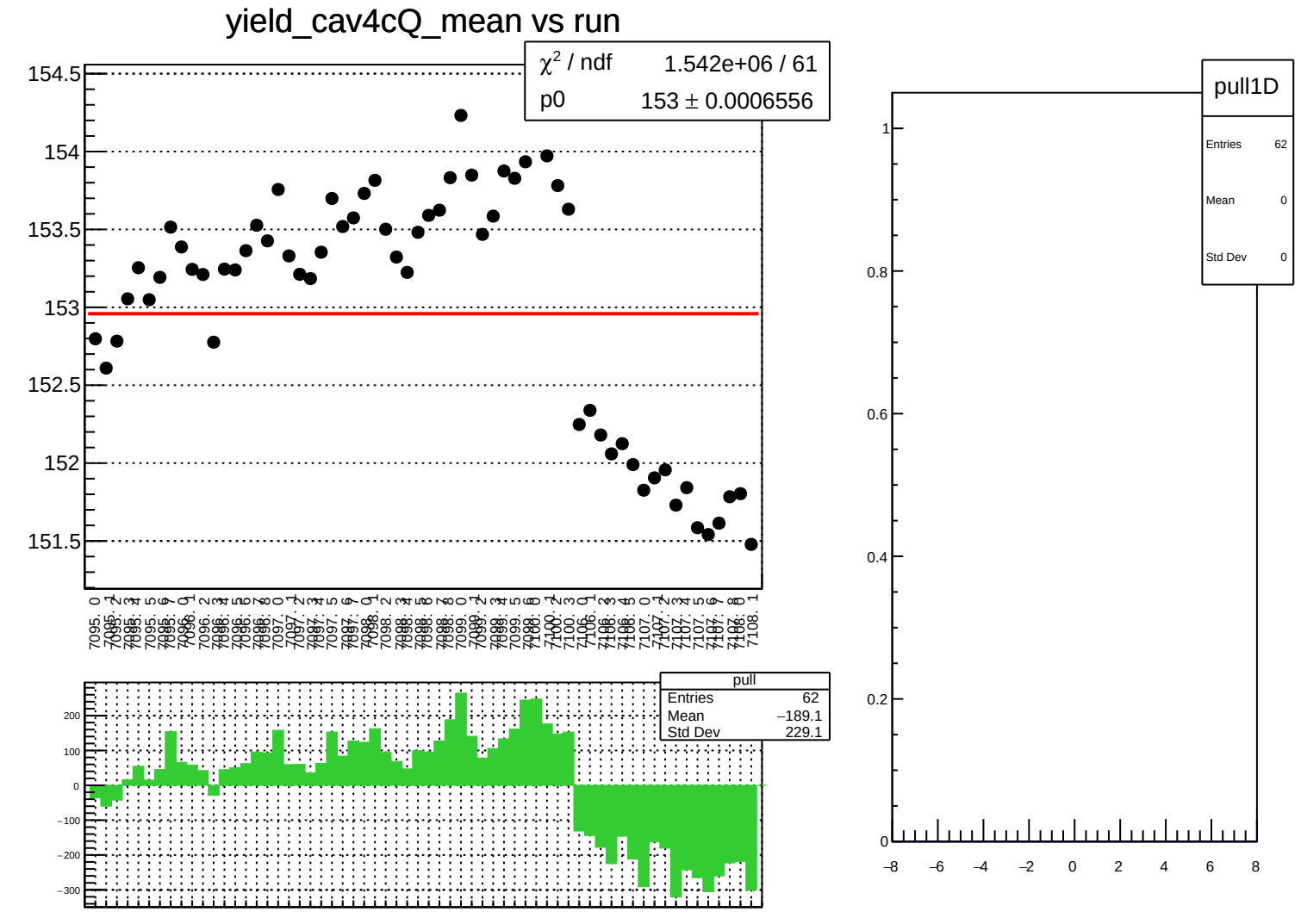

pull1D
Entries 62
Mean 0.6663
Std Dev 2.378
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

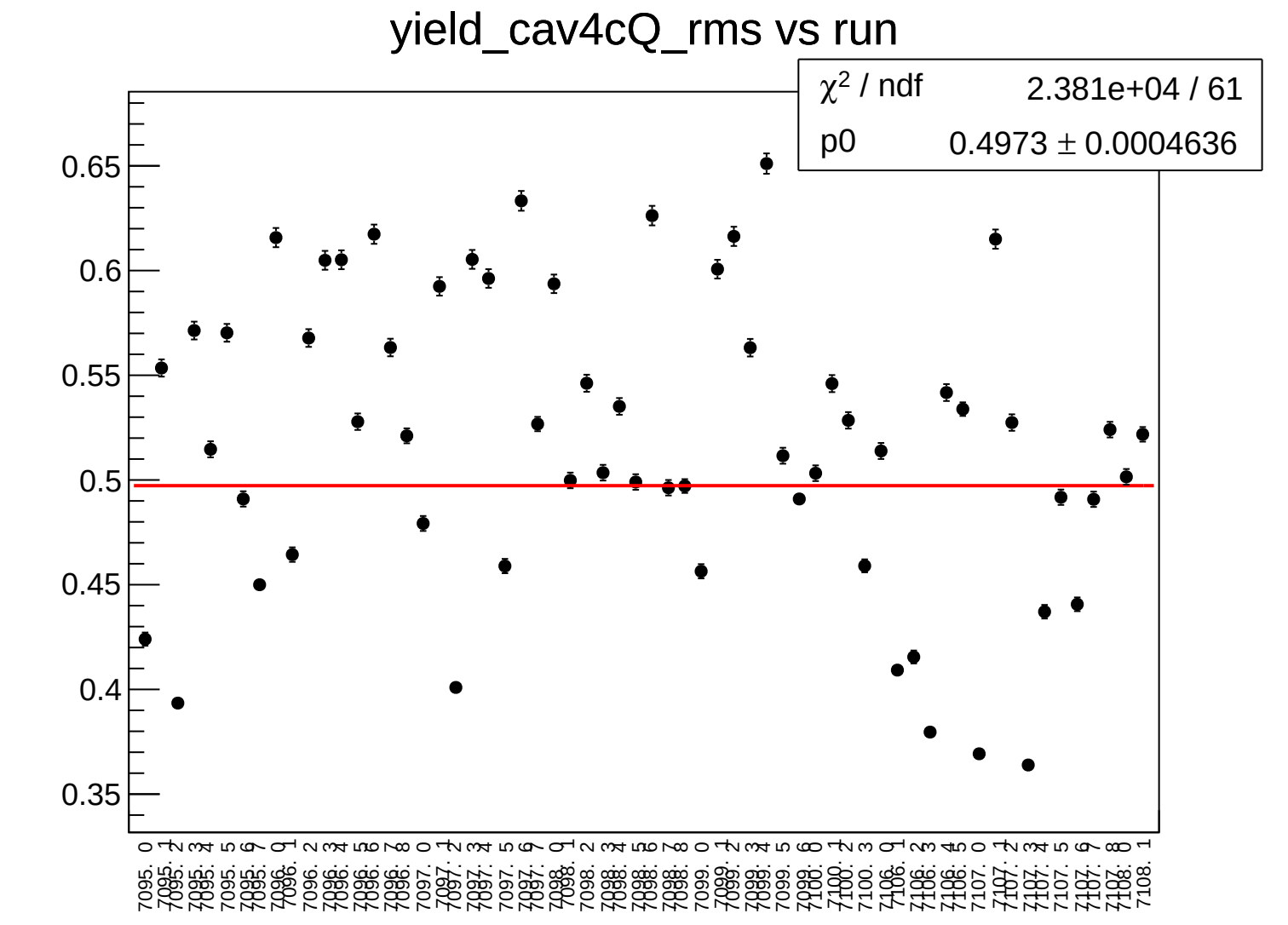

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.362e+04 / 61
p0 0.4981 ± 0.0004644
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7108. 0
7108. 1

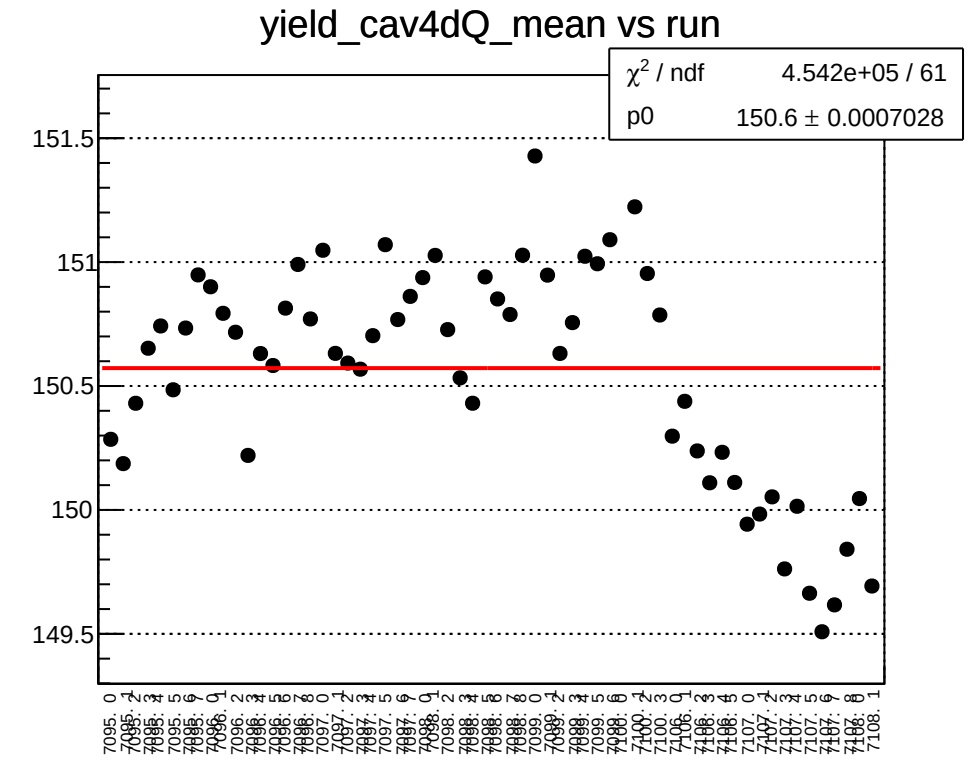

yield_cav4bQ_mean vs run
χ² / ndf 1.52e+06 / 61
p0 145.6 ± 0.0007015
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 62
Mean −184.2
Std Dev 227.3
300
200
100
0
−100
−200
−300

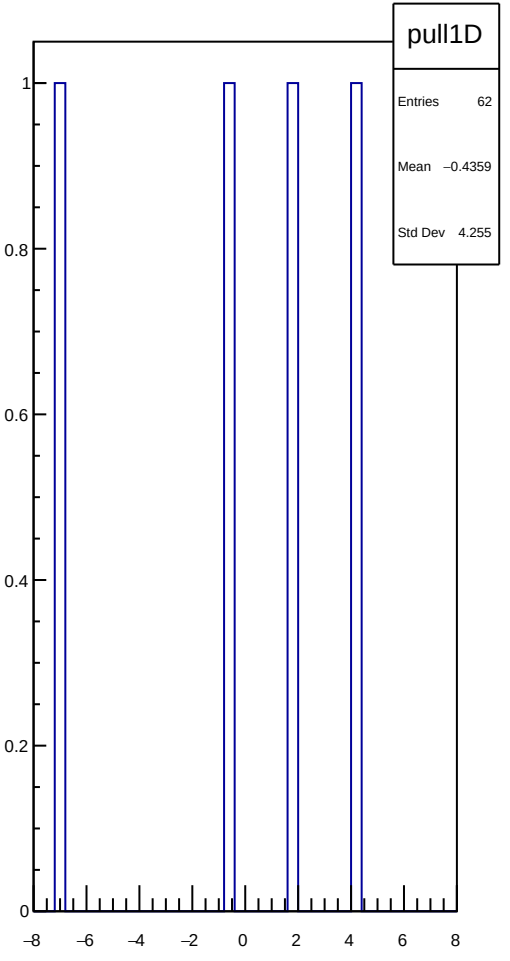

pull1D
Entries 62
Mean 7.468
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

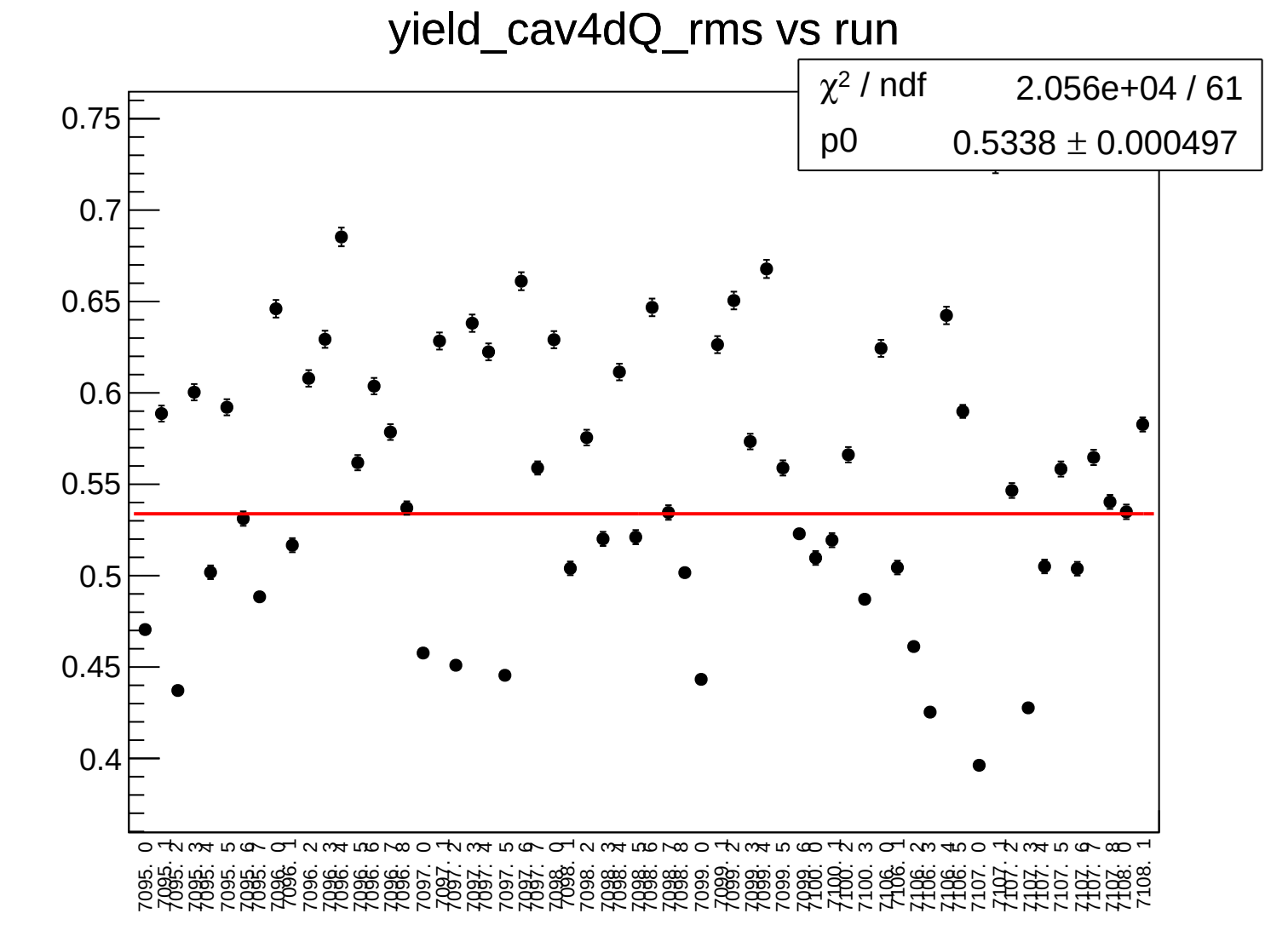

yield_cav4bQ_rms vs run
χ² / ndf 2.541e+04 / 61
p0 0.5317 ± 0.0004961
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35


yield_cav4cQ_mean vs run
χ² / ndf 1.542e+06 / 61
p0 153 ± 0.0006556
154.5
154
153.5
153
152.5
152
151.5
pull
Entries 62
Mean −189.1
Std Dev 229.1
200
100
0
−100
−200
−300
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4cQ_rms vs run
χ² / ndf 2.381e+04 / 61
p0 0.4973 ± 0.0004636
0.65
0.6
0.55
0.5
0.45
0.4
0.35


yield_cav4dQ_mean vs run
χ² / ndf 4.542e+05 / 61
p0 150.6 ± 0.0007028
151.5
151
150.5
150
149.5
pull
Entries 62
Mean 2456
Std Dev 2414
200
150
100
50
0
−50
−100
−150
−200


pull1D
Entries 62
Mean −0.4359
Std Dev 4.255
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 2.056e+04 / 61
p0 0.5338 ± 0.000497
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
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7098. 9
7099. 0
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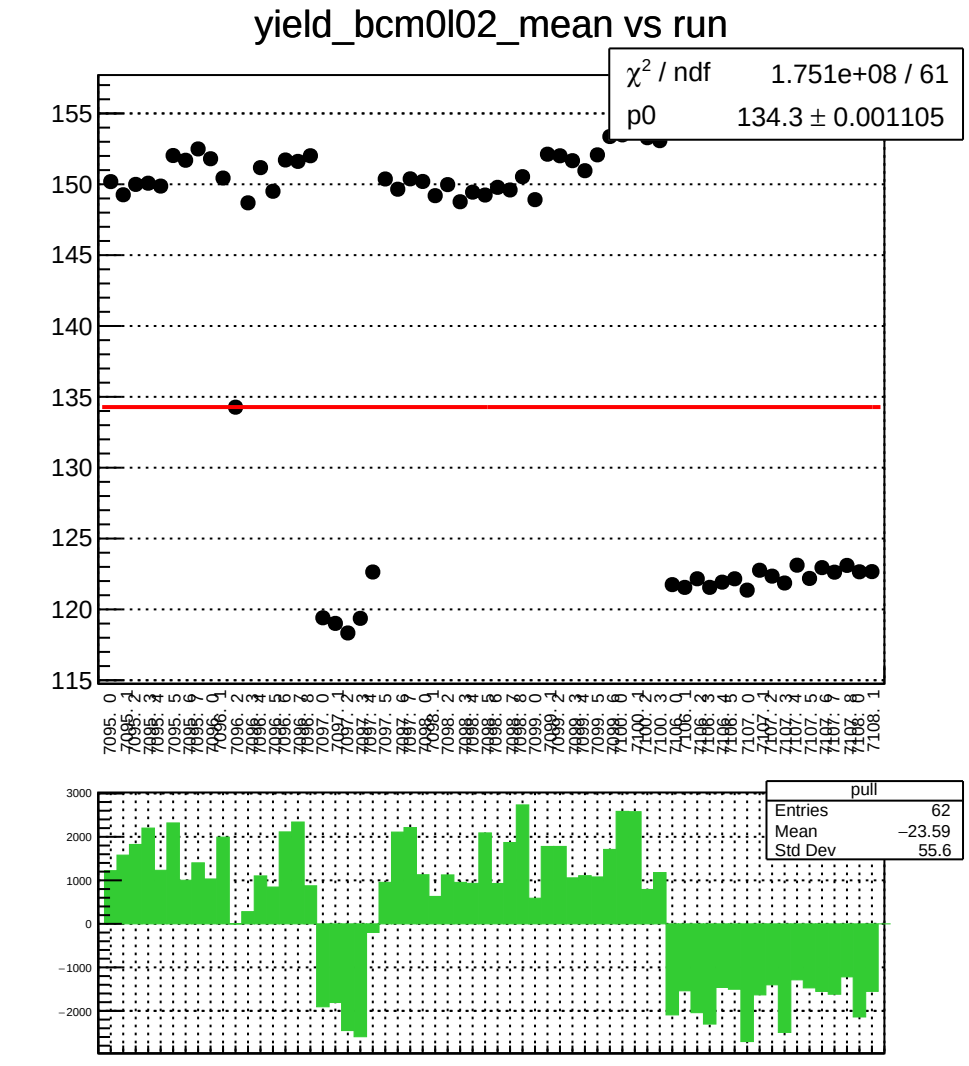
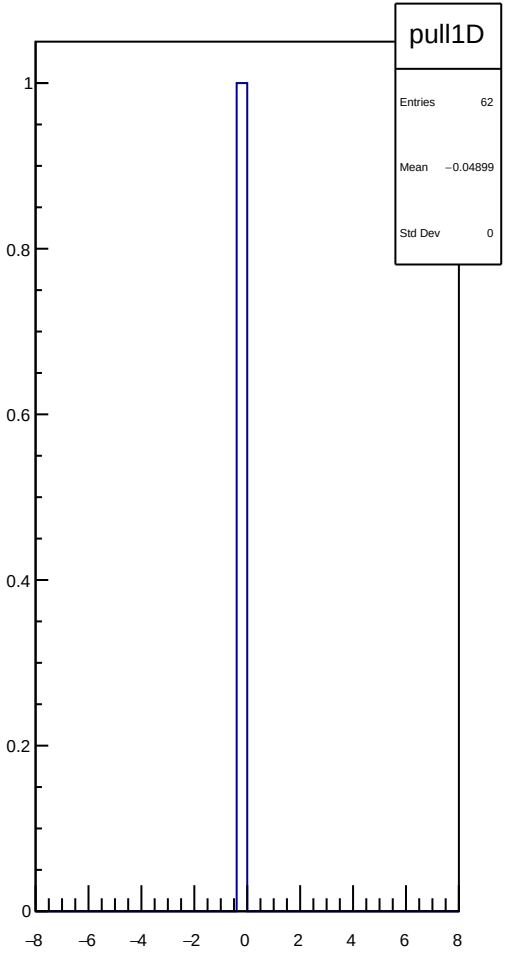
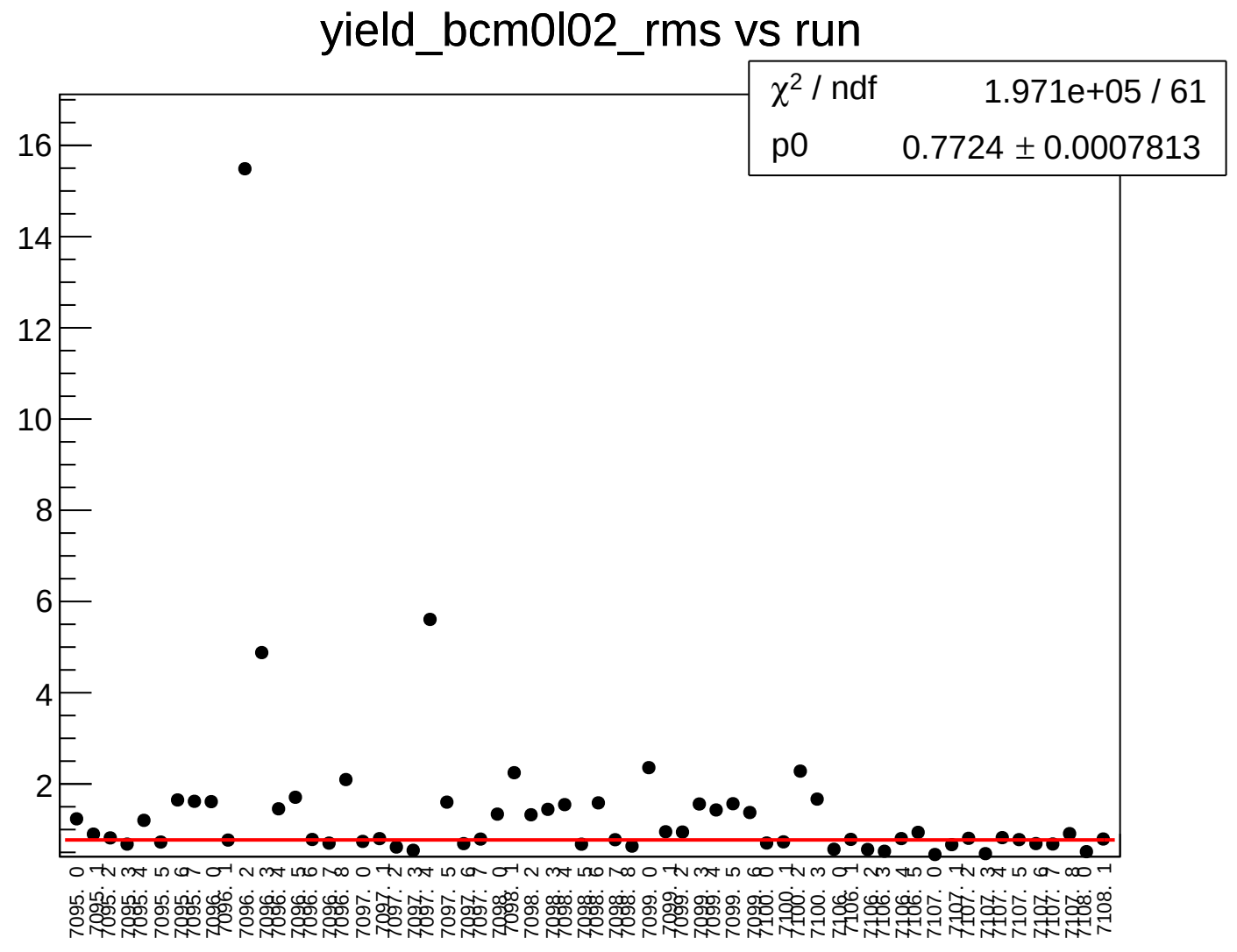
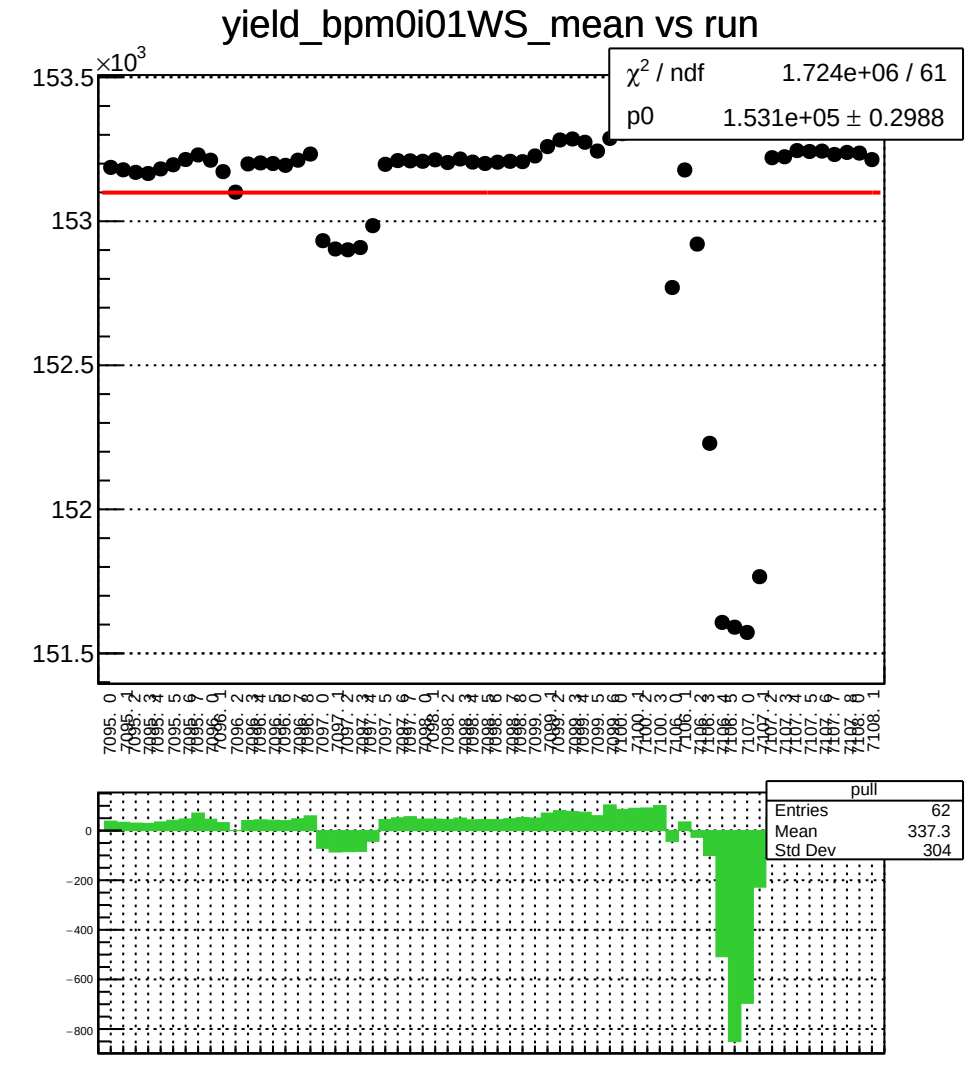
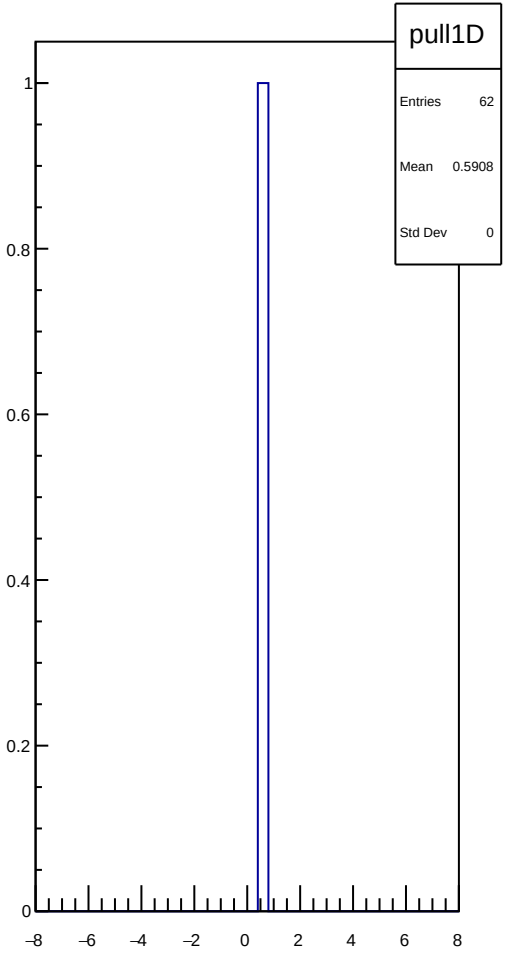
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

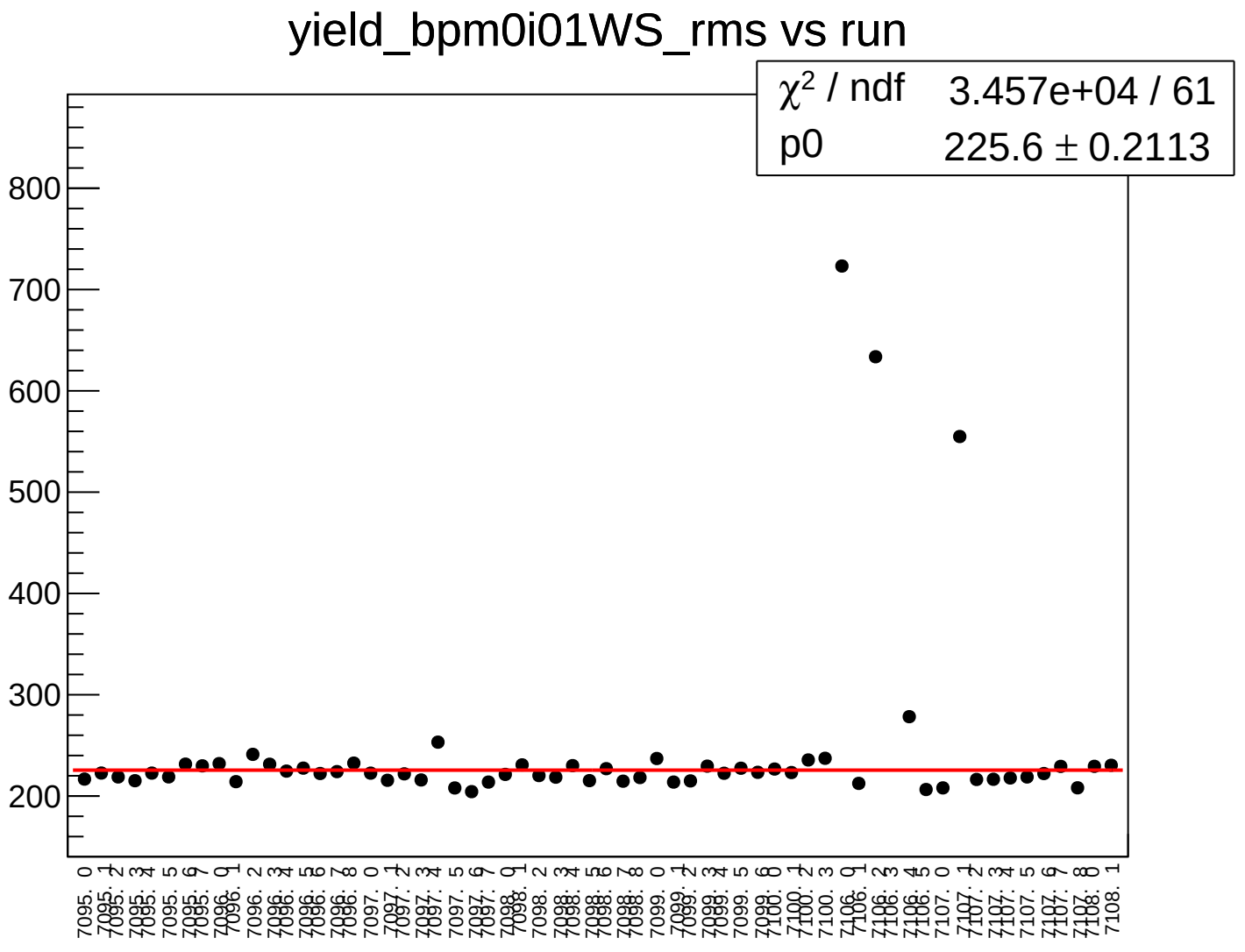

yield_bcm0l02_mean vs run
χ² / ndf 1.751e+08 / 61
p0 134.3 ± 0.001105
155
150
145
140
135
130
125
120
115
pull
Entries 62
Mean −23.59
Std Dev 55.6
3000
2000
1000
0
−1000
−2000

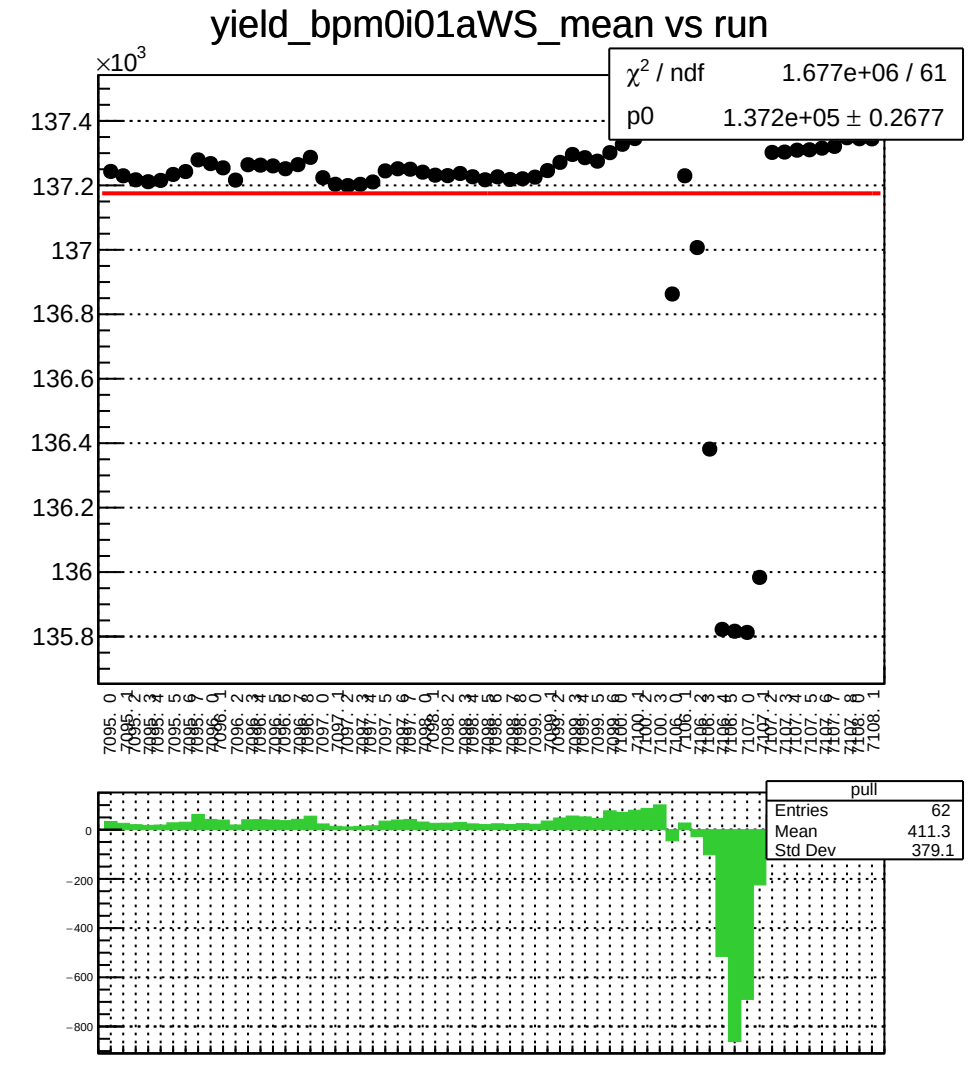

pull1D
Entries 62
Mean −0.04899
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

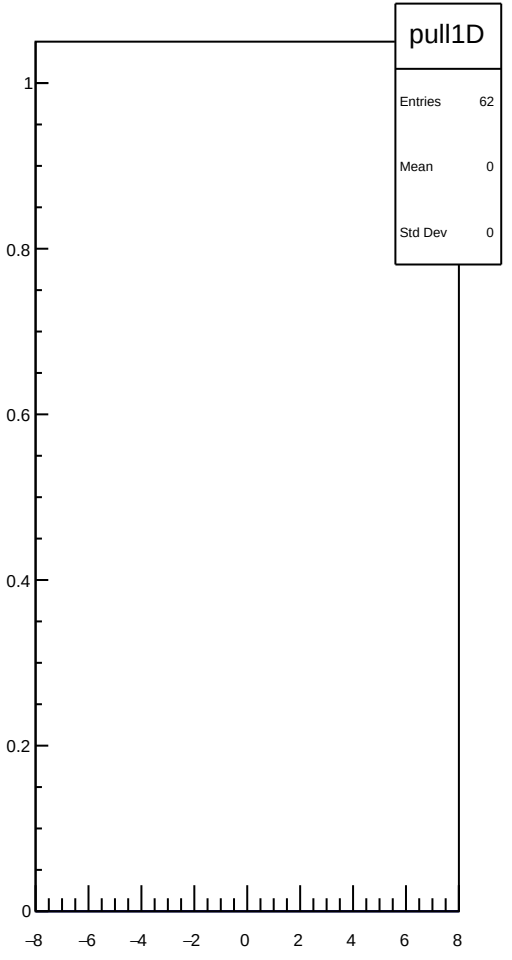

yield_bcm0l02_rms vs run
χ² / ndf 1.971e+05 / 61
p0 0.7724 ± 0.0007813
16
14
12
10
8
6
4
2

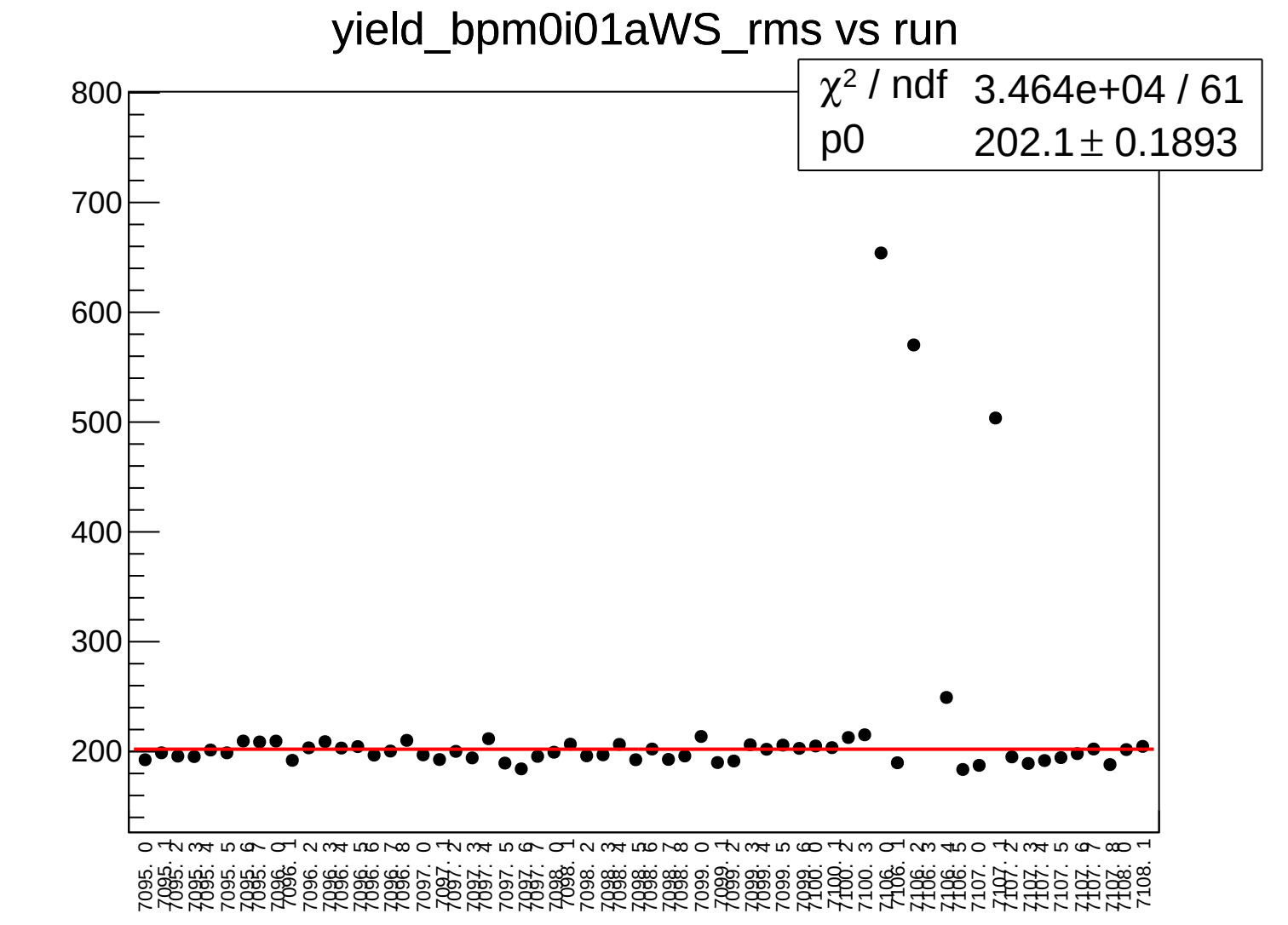

yield_bpm0i01WS_mean vs run
×10^3
153.5
153
152.5
152
151.5
χ² / ndf 1.724e+06 / 61
p0 1.531e+05 ± 0.2988
pull
Entries 62
Mean 337.3
Std Dev 304
0
−200
−400
−600
−800

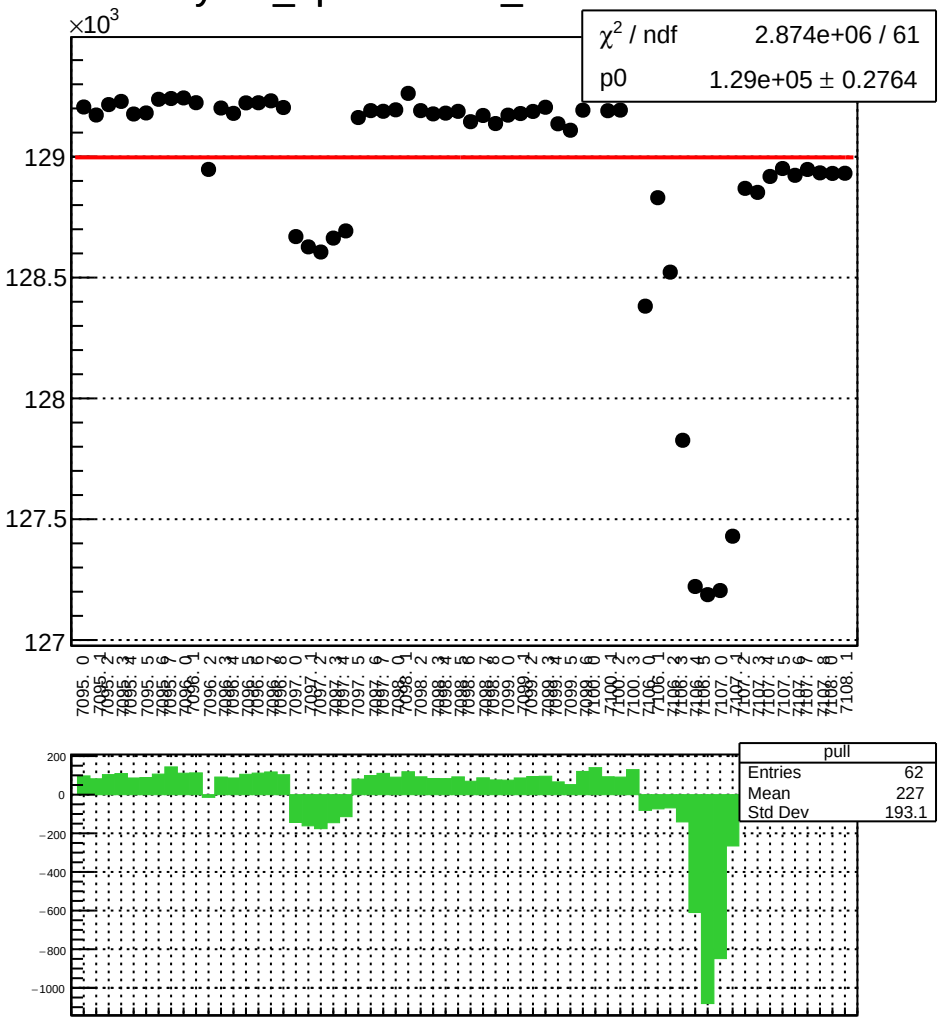

pull1D
Entries 62
Mean 0.5908
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

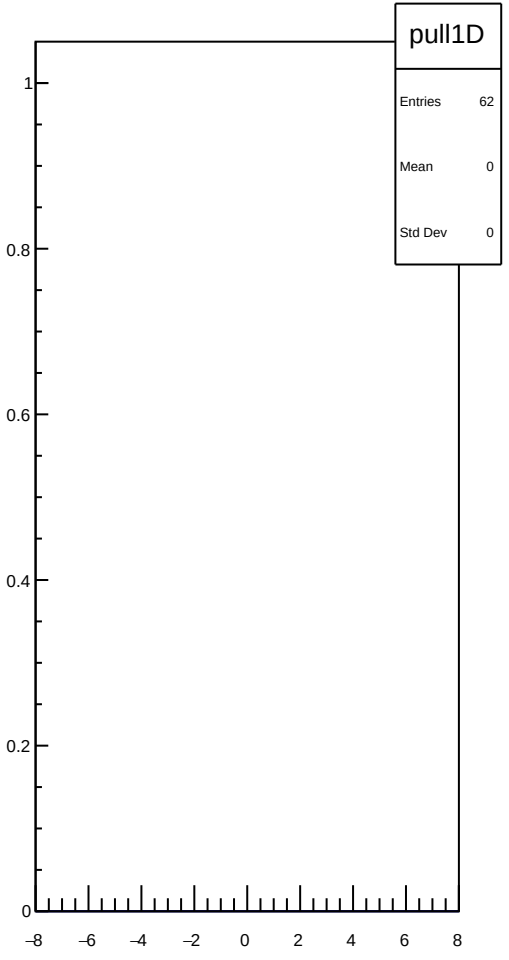

yield_bpm0i01WS_rms vs run
χ² / ndf 3.457e+04 / 61
p0 225.6 ± 0.2113
800
700
600
500
400
300
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

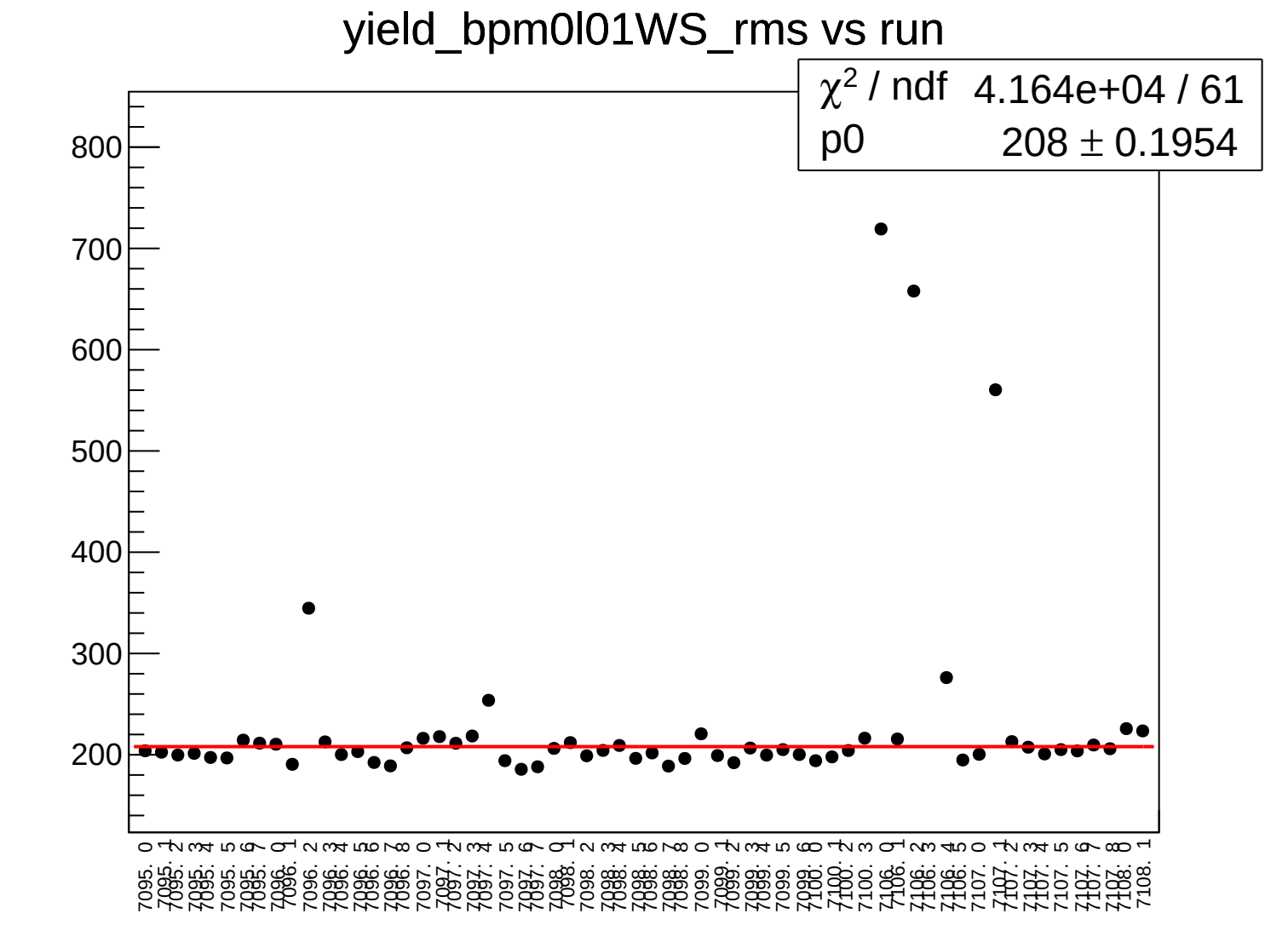

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.677e+06 / 61
p0 1.372e+05 ± 0.2677
137.4
137.2
137
136.8
136.6
136.4
136.2
136
135.8
pull
Entries 62
Mean 411.3
Std Dev 379.1
0
−200
−400
−600
−800

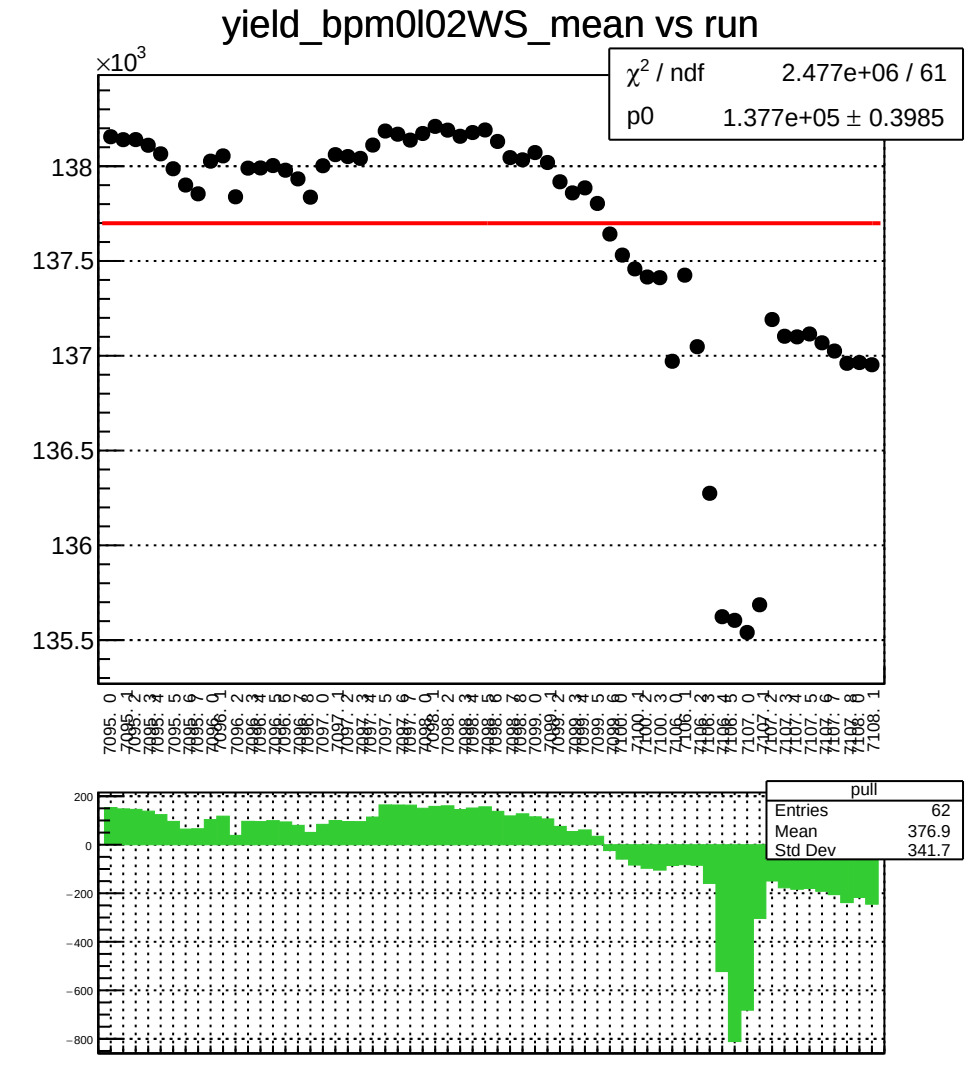

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

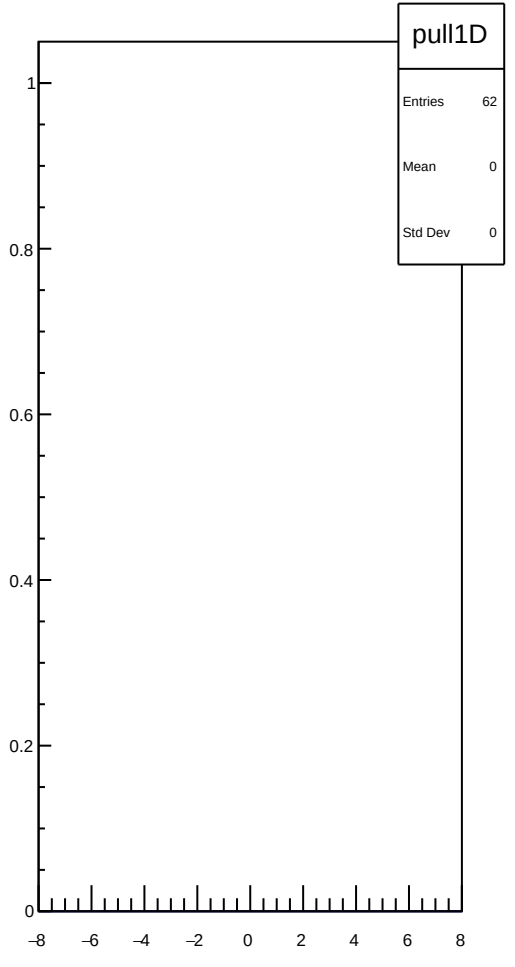

yield_bpm0i01aWS_rms vs run
χ² / ndf 3.464e+04 / 61
p0 202.1 ± 0.1893
800
700
600
500
400
300
200

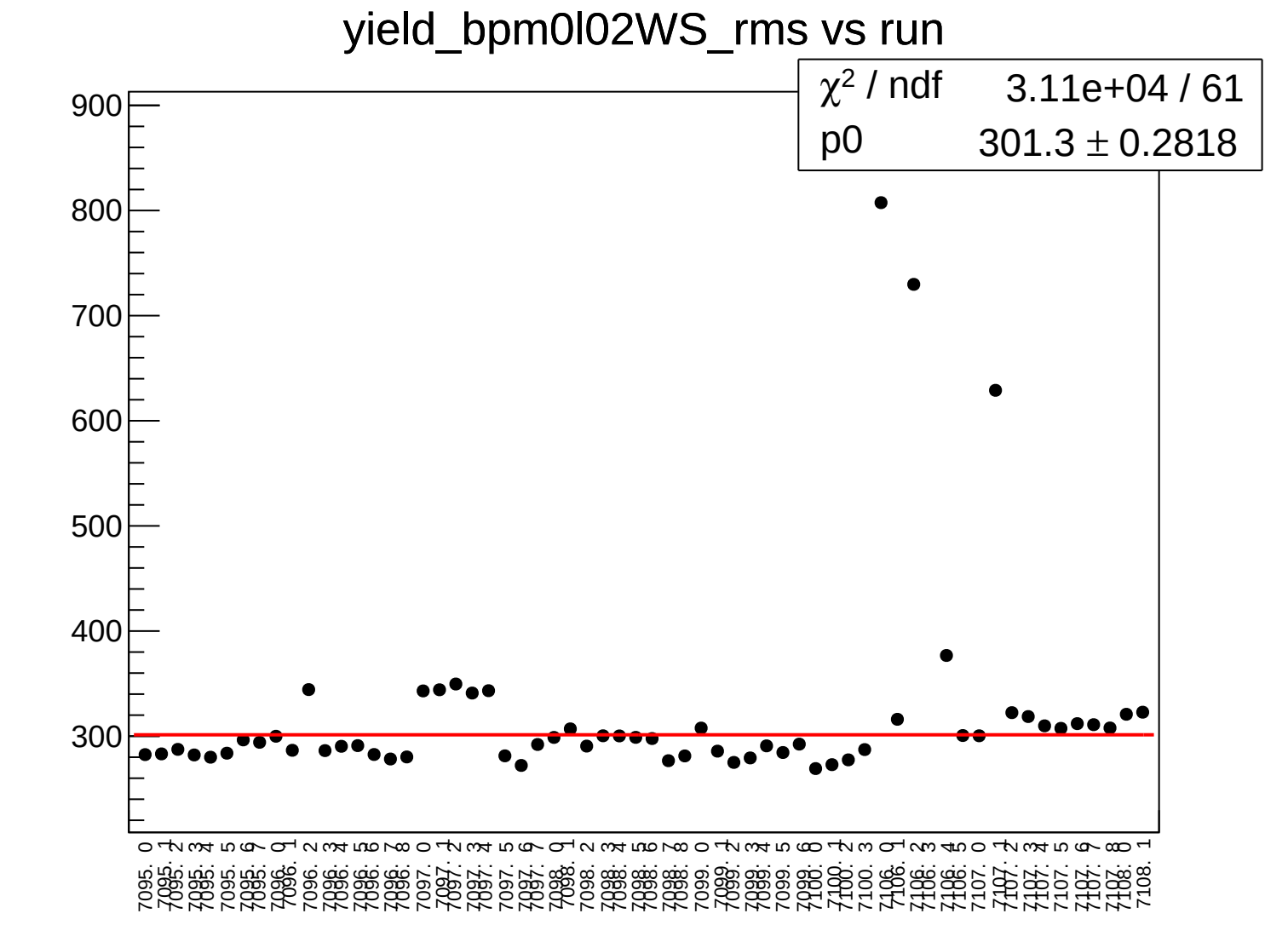

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.874e+06 / 61
p0 1.29e+05 ± 0.2764
129
128.5
128
127.5
127
pull
Entries 62
Mean 227
Std Dev 193.1
200
0
−200
−400
−600
−800
−1000

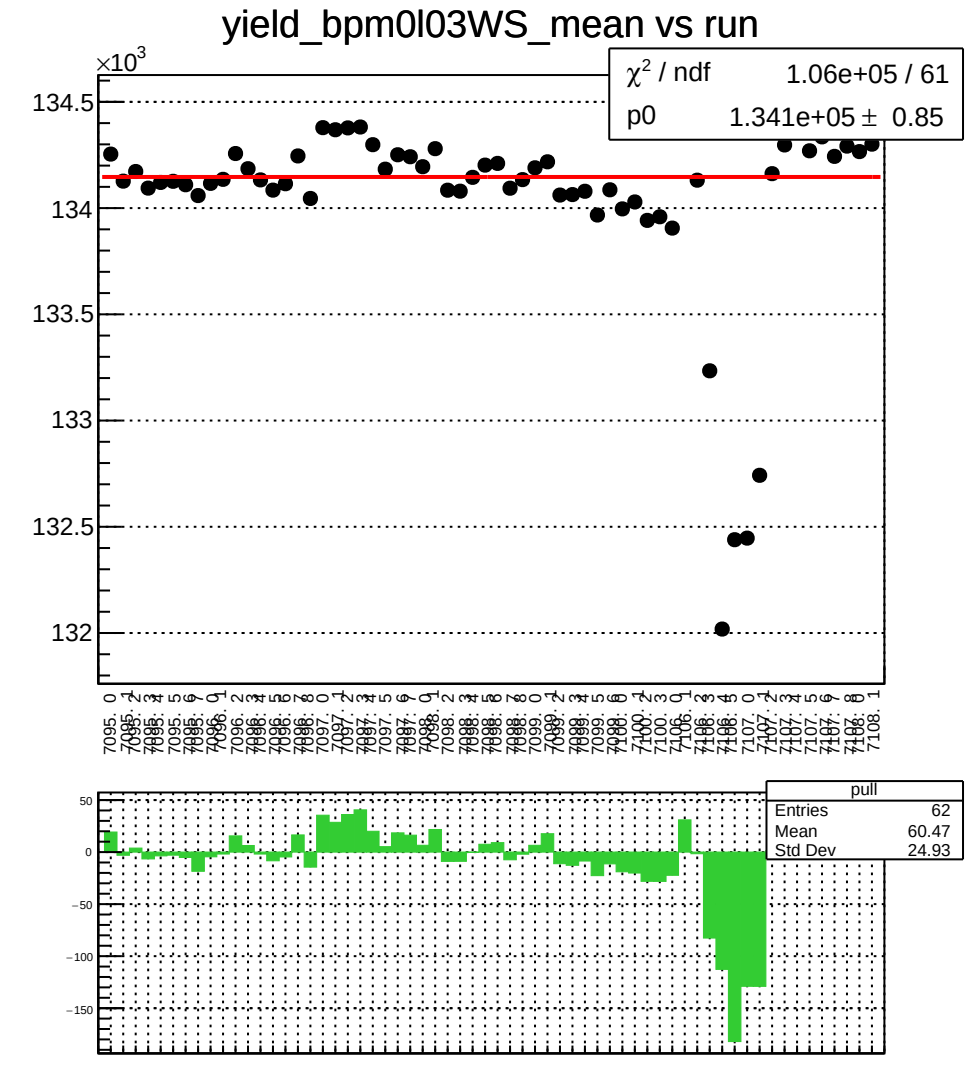

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

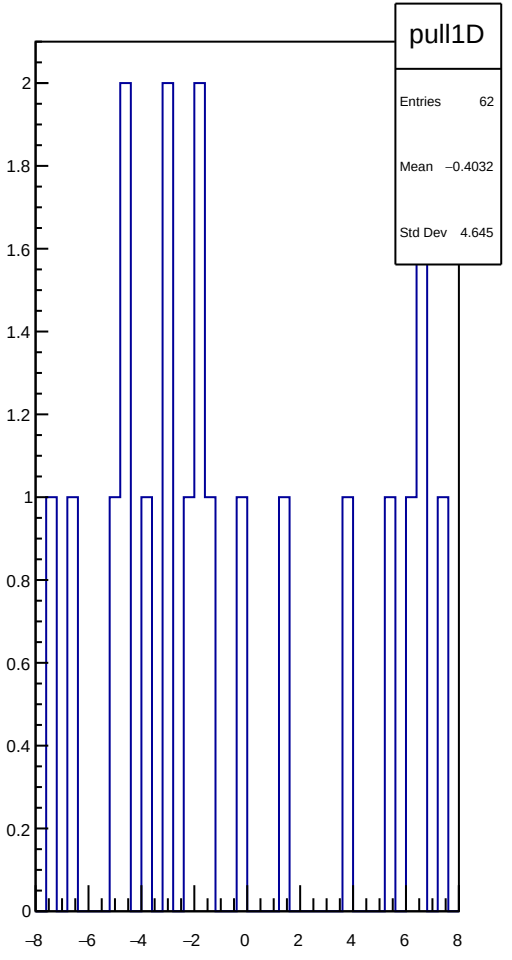

yield_bpm0l01WS_rms vs run
χ² / ndf 4.164e+04 / 61
p0 208 ± 0.1954
800
700
600
500
400
300
200

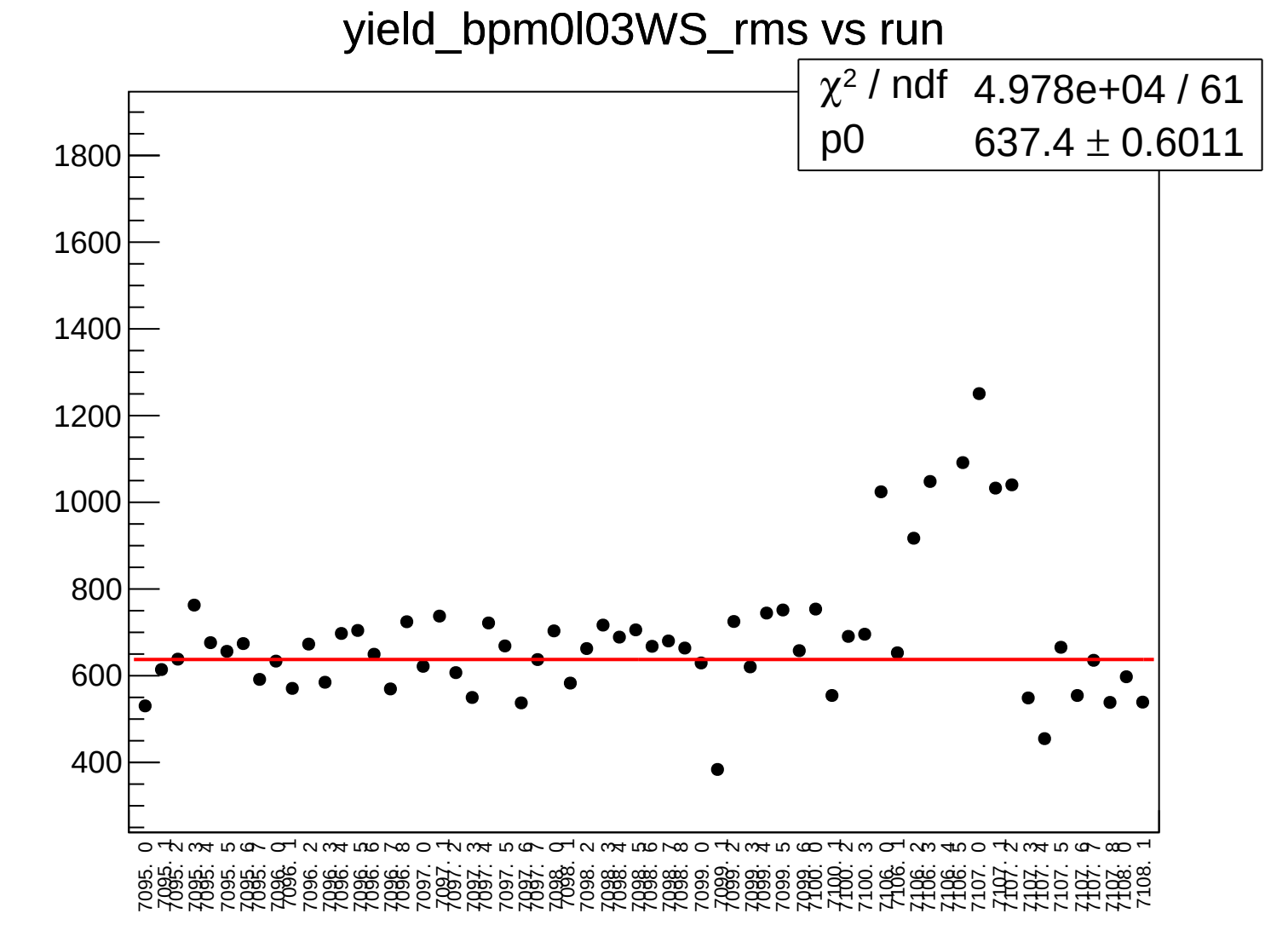

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 2.477e+06 / 61
p0 1.377e+05 ± 0.3985
138
137.5
137
136.5
136
135.5
pull
Entries 62
Mean 376.9
Std Dev 341.7
200
0
−200
−400
−600
−800

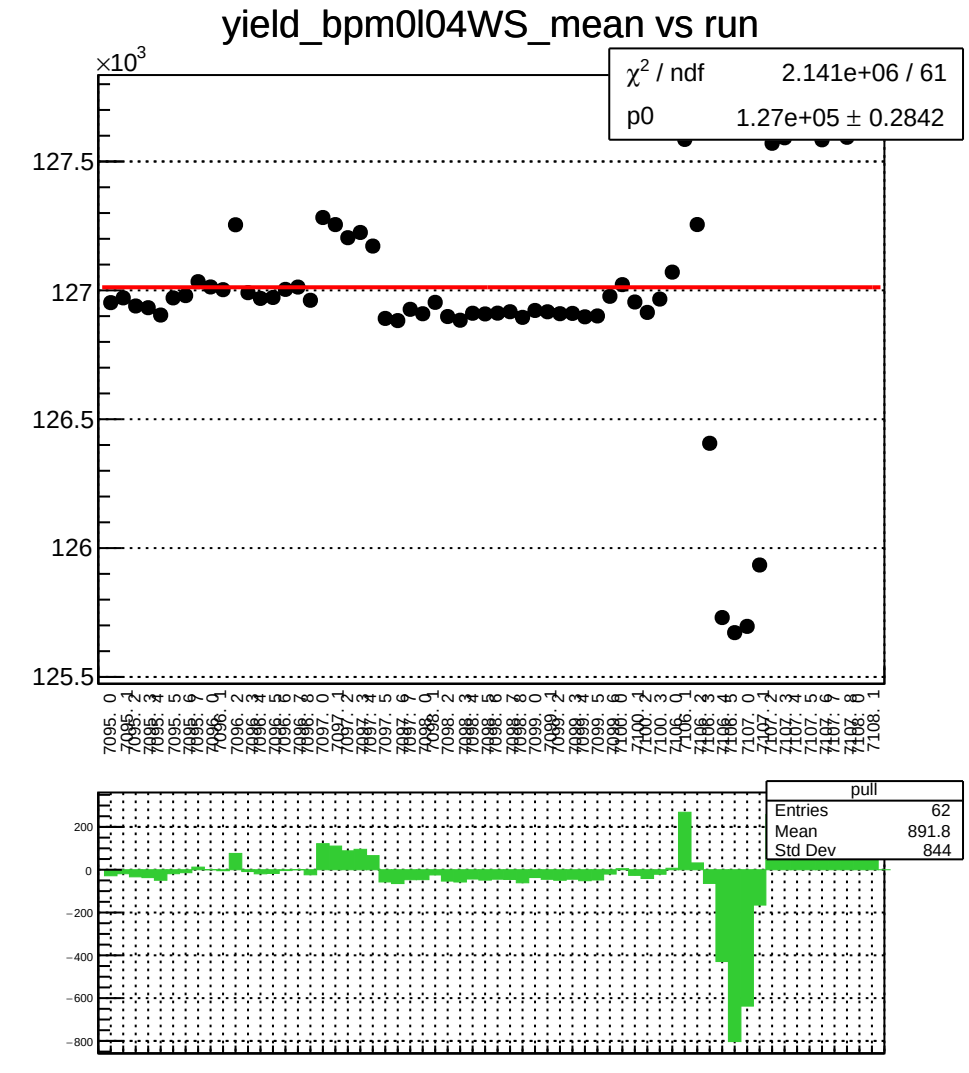

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

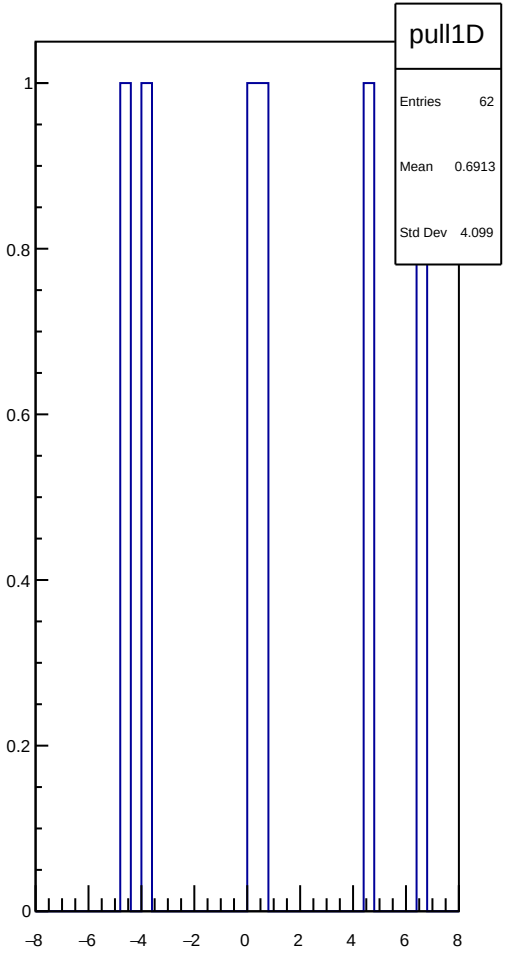

yield_bpm0l02WS_rms vs run
χ² / ndf 3.11e+04 / 61
p0 301.3 ± 0.2818
900
800
700
600
500
400
300
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

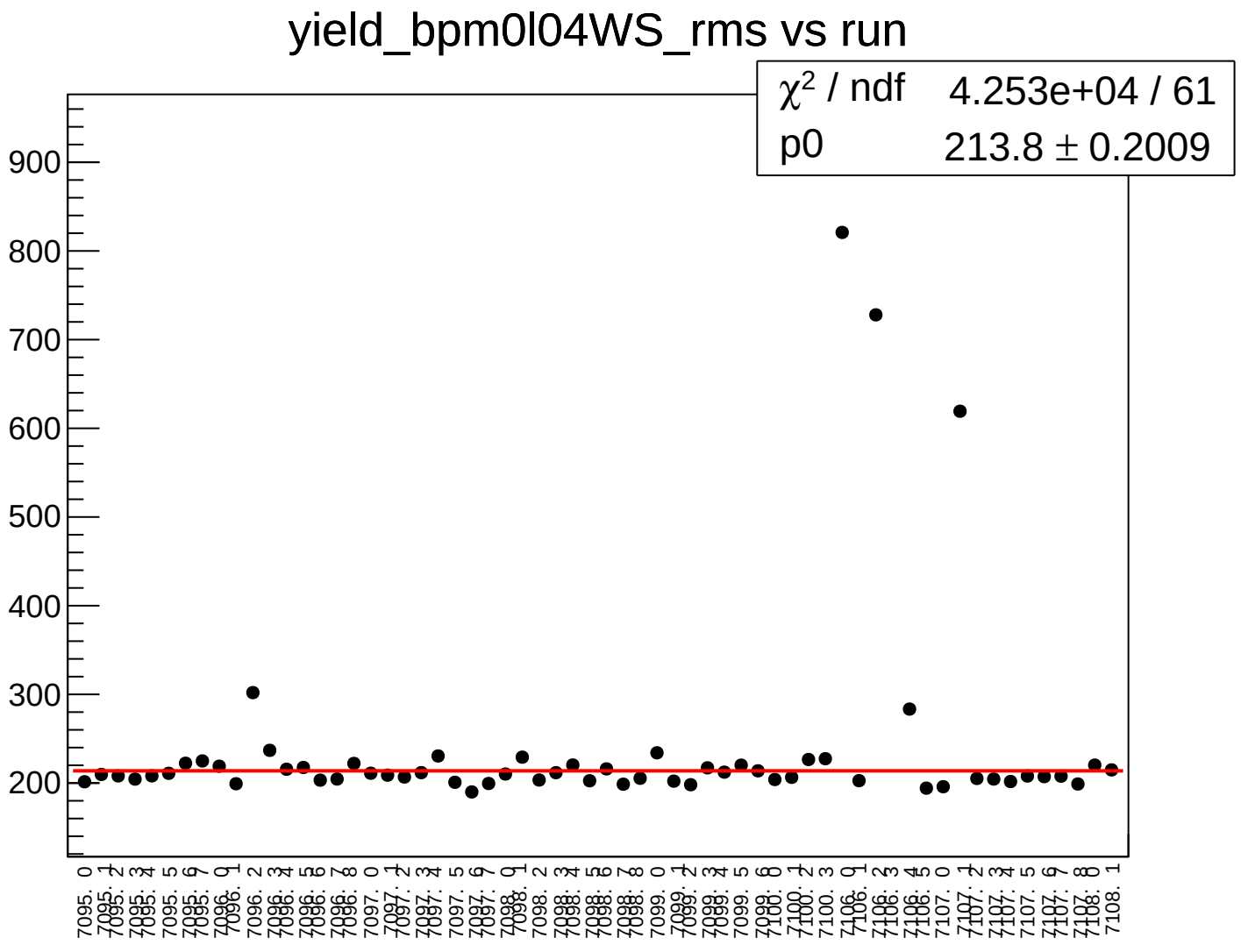

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.06e+05 / 61
p0 1.341e+05 ± 0.85
134.5
134
133.5
133
132.5
132
pull
Entries 62
Mean 60.47
Std Dev 24.93
50
0
−50
−100
−150

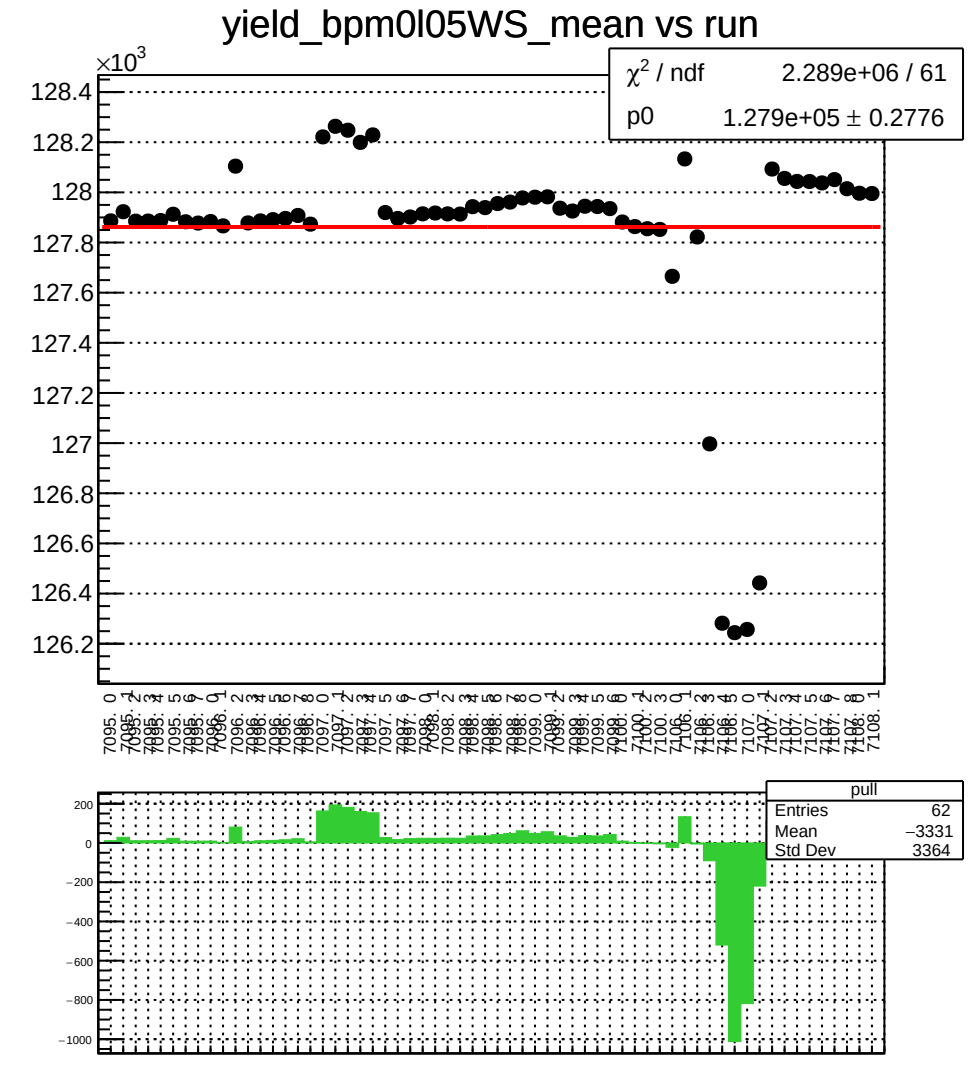

pull1D
Entries 62
Mean −0.4032
Std Dev 4.645
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

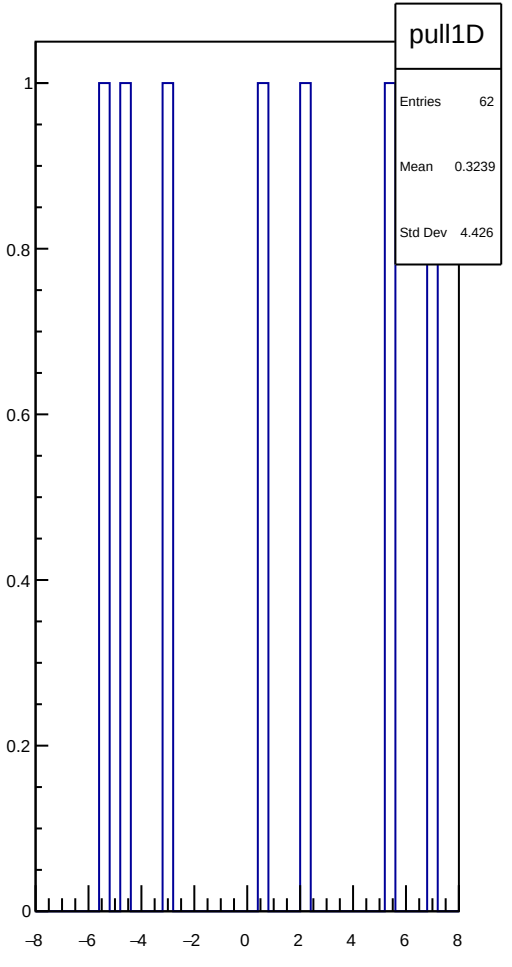

yield_bpm0l03WS_rms vs run
χ² / ndf 4.978e+04 / 61
p0 637.4 ± 0.6011
1800
1600
1400
1200
1000
800
600
400
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

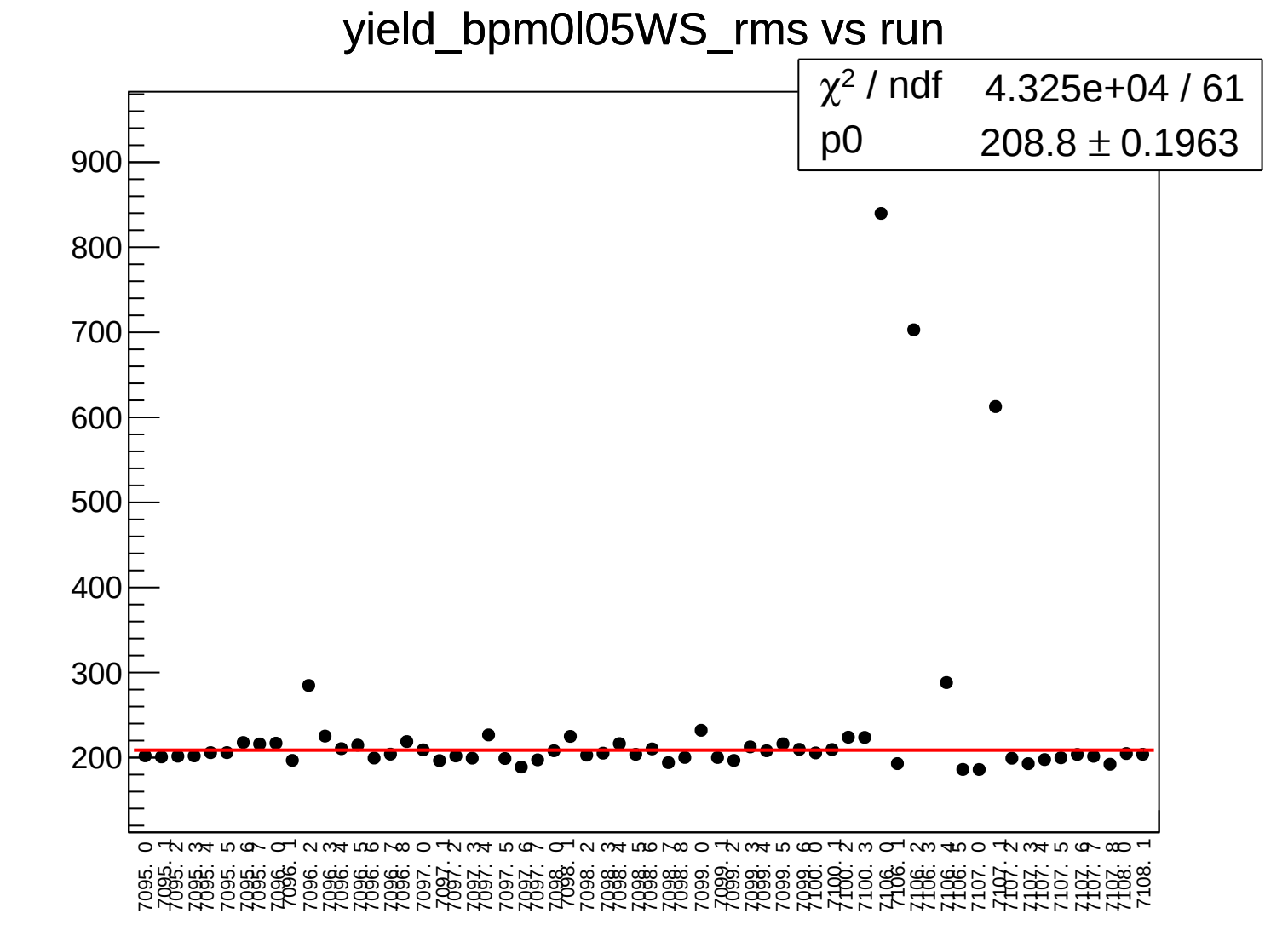

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.141e+06 / 61
p0 1.27e+05 ± 0.2842
127.5
127
126.5
126
125.5
pull
Entries 62
Mean 891.8
Std Dev 844
200
0
−200
−400
−600
−800

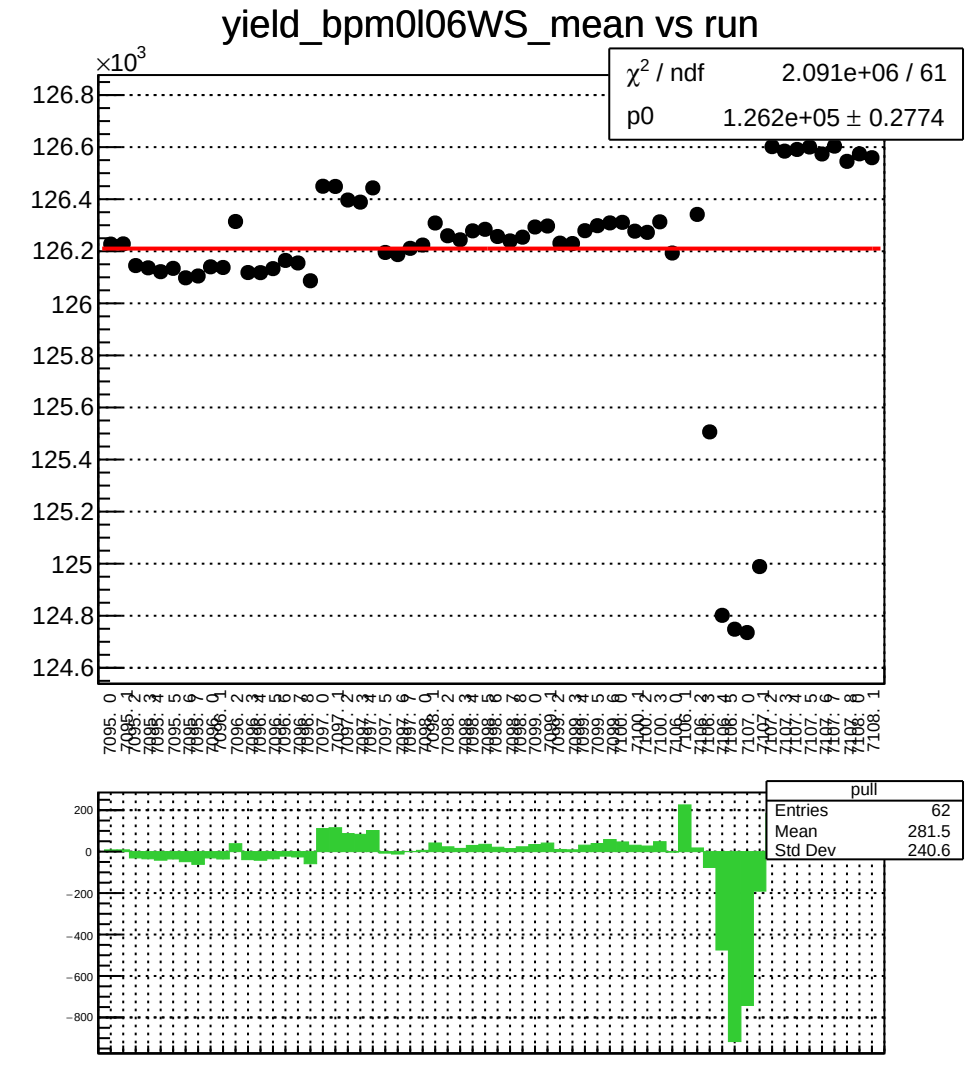

pull1D
Entries 62
Mean 0.6913
Std Dev 4.099
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

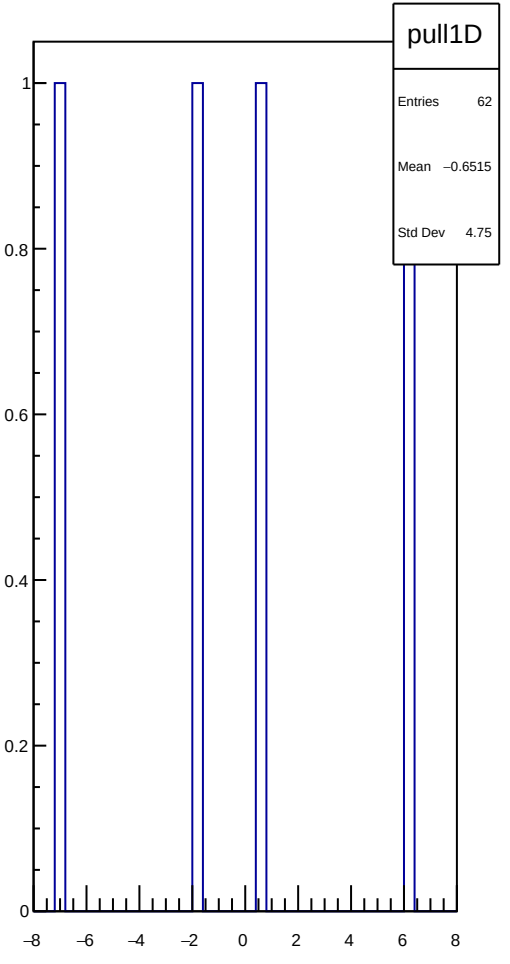

yield_bpm0l04WS_rms vs run
χ² / ndf 4.253e+04 / 61
p0 213.8 ± 0.2009
900
800
700
600
500
400
300
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7108. 0
7108. 1

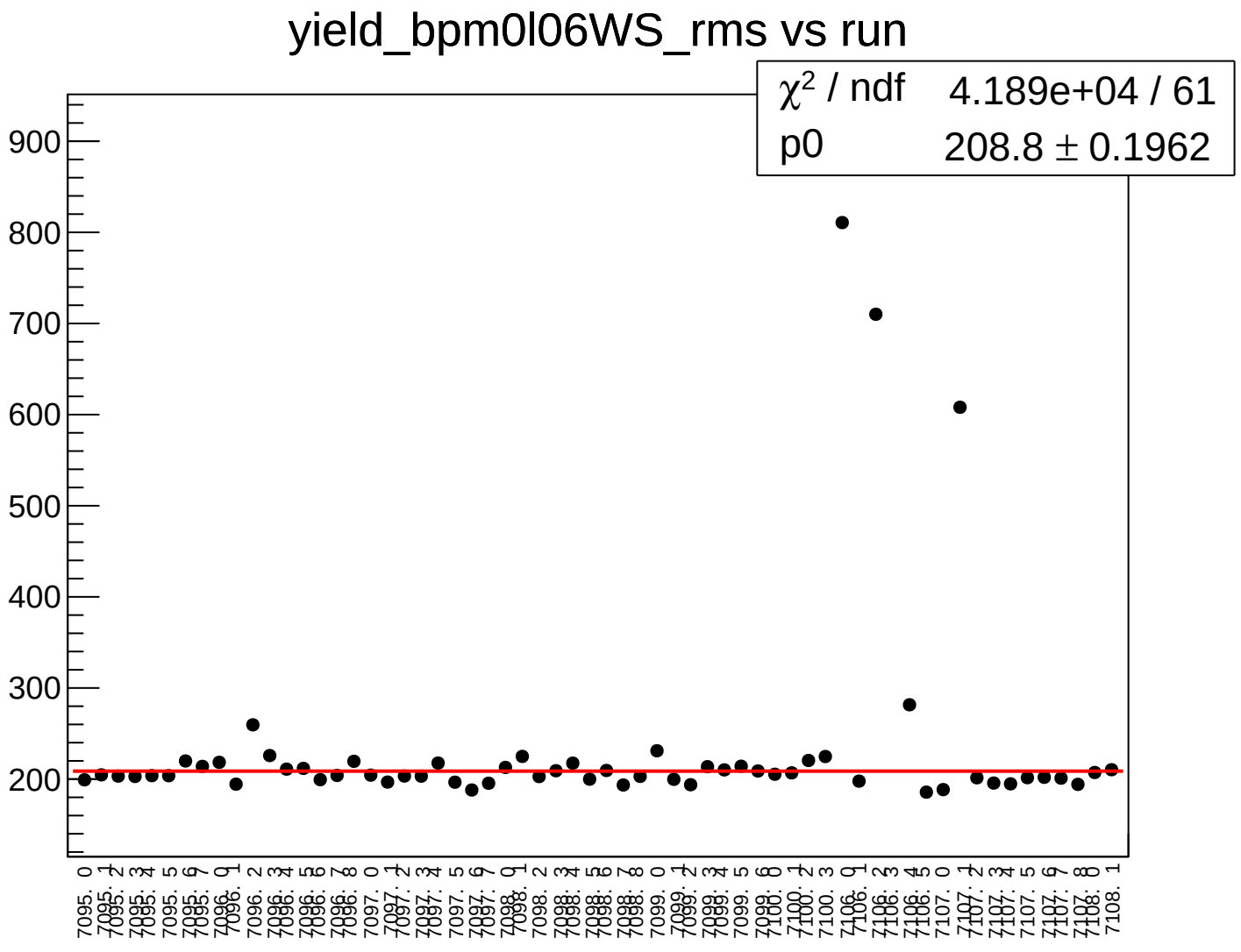

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 2.289e+06 / 61
p0 1.279e+05 ± 0.2776
128.4
128.2
128
127.8
127.6
127.4
127.2
127
126.8
126.6
126.4
126.2
pull
Entries 62
Mean −3331
Std Dev 3364
200
0
−200
−400
−600
−800
−1000

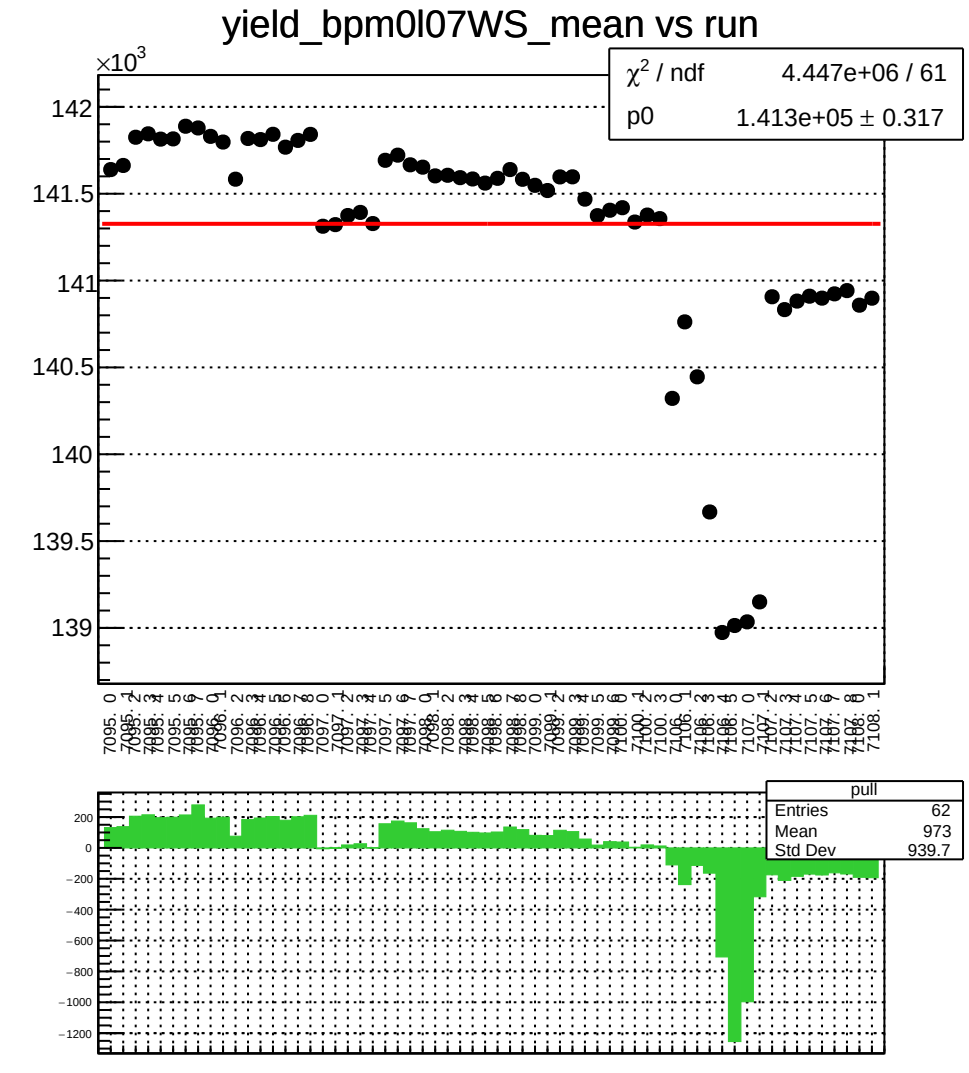

pull1D
Entries 62
Mean 0.3239
Std Dev 4.426
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

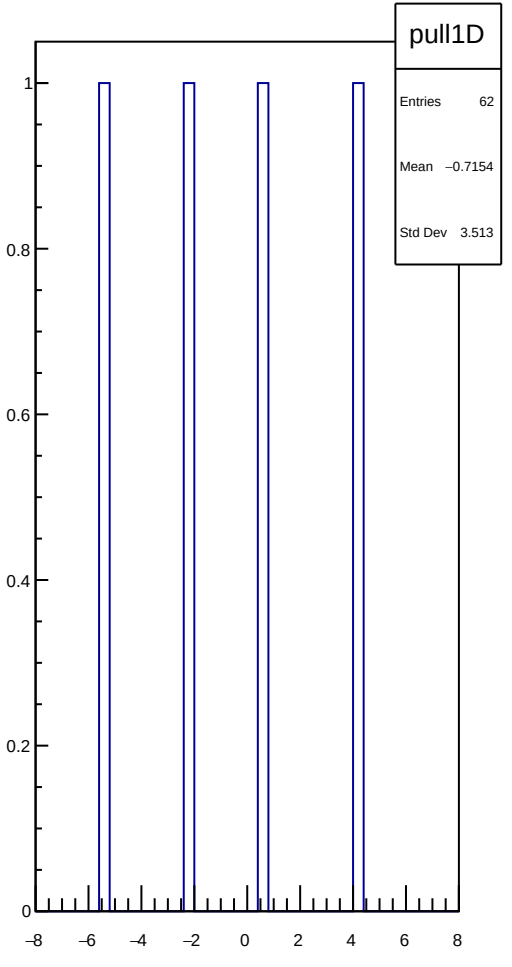

yield_bpm0l05WS_rms vs run
χ² / ndf 4.325e+04 / 61
p0 208.8 ± 0.1963
900
800
700
600
500
400
300
200

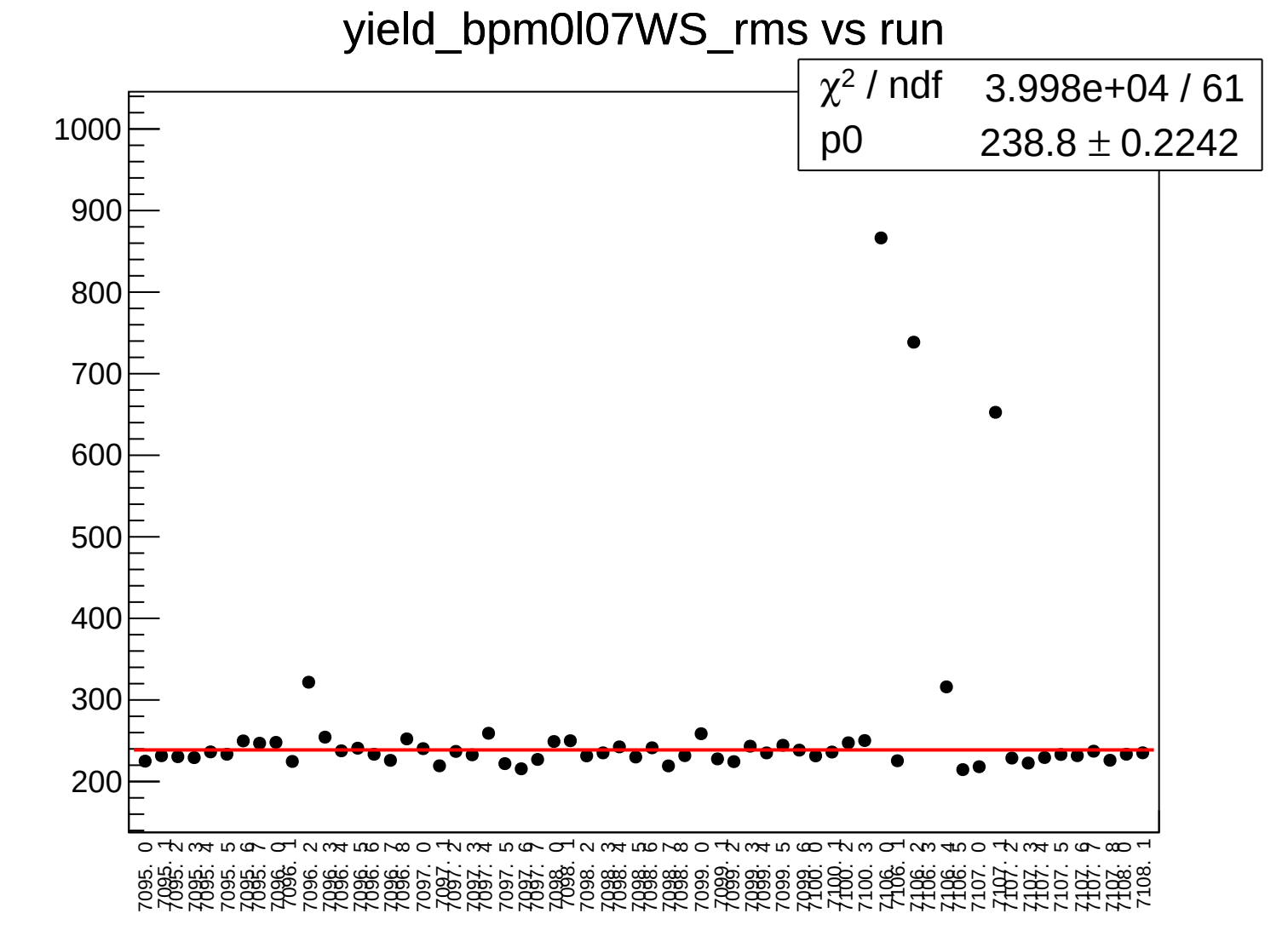

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.091e+06 / 61
p0 1.262e+05 ± 0.2774
126.8
126.6
126.4
126.2
126
125.8
125.6
125.4
125.2
125
124.8
124.6
pull
Entries 62
Mean 281.5
Std Dev 240.6
200
0
−200
−400
−600
−800

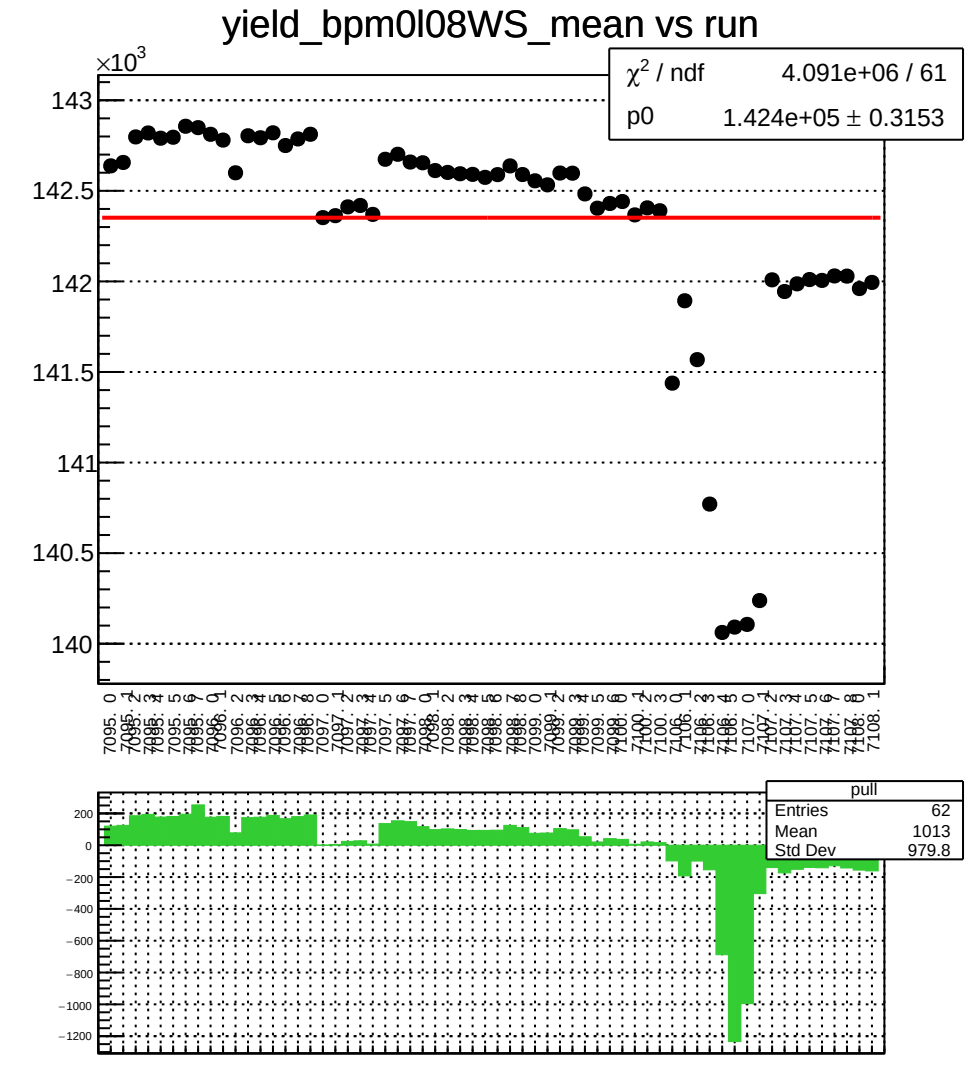

pull1D
Entries 62
Mean −0.6515
Std Dev 4.75
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

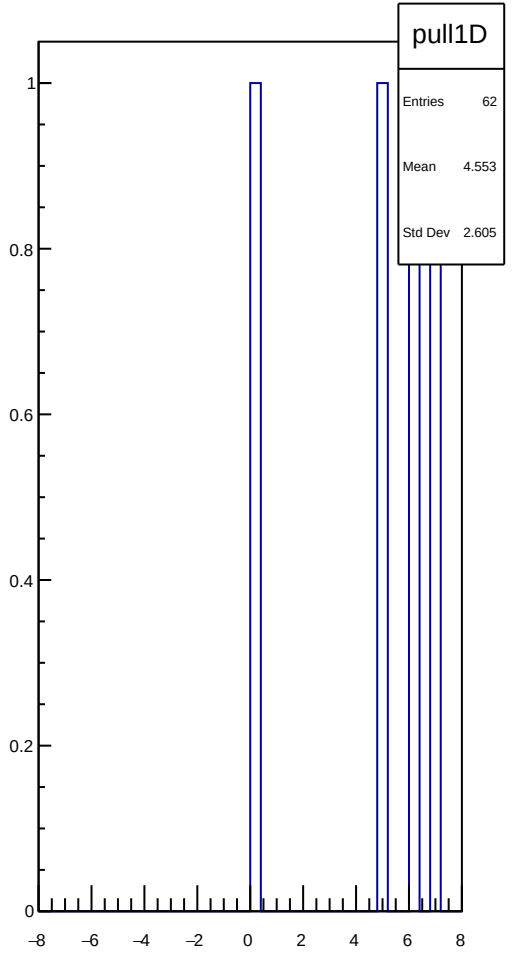

yield_bpm0l06WS_rms vs run
χ^2 / ndf 4.189e+04 / 61
p0 208.8 ± 0.1962
900
800
700
600
500
400
300
200

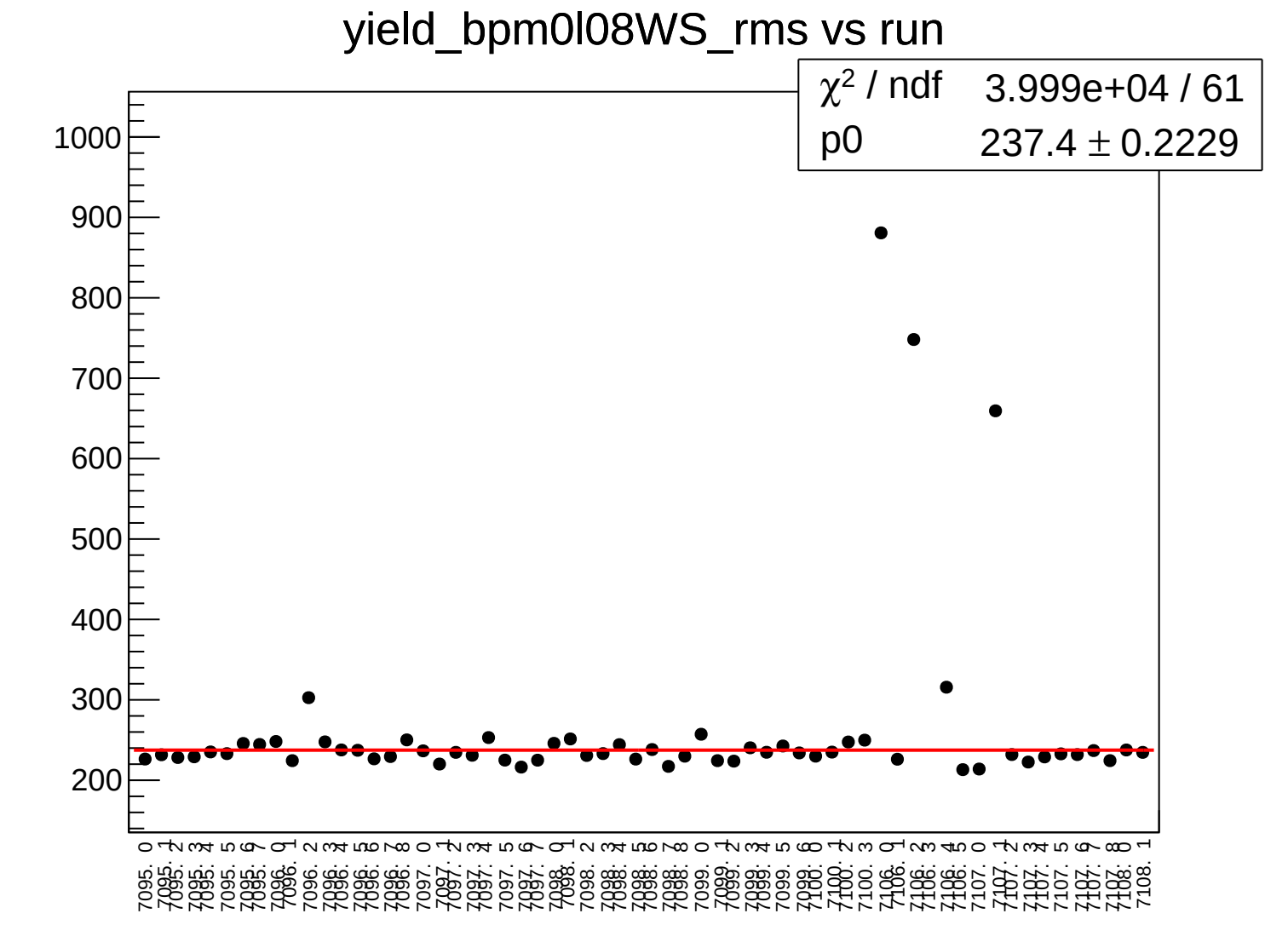

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 4.447e+06 / 61
p0 1.413e+05 ± 0.317
142
141.5
141
140.5
140
139.5
139
pull
Entries 62
Mean 973
Std Dev 939.7
200
0
−200
−400
−600
−800
−1000
−1200

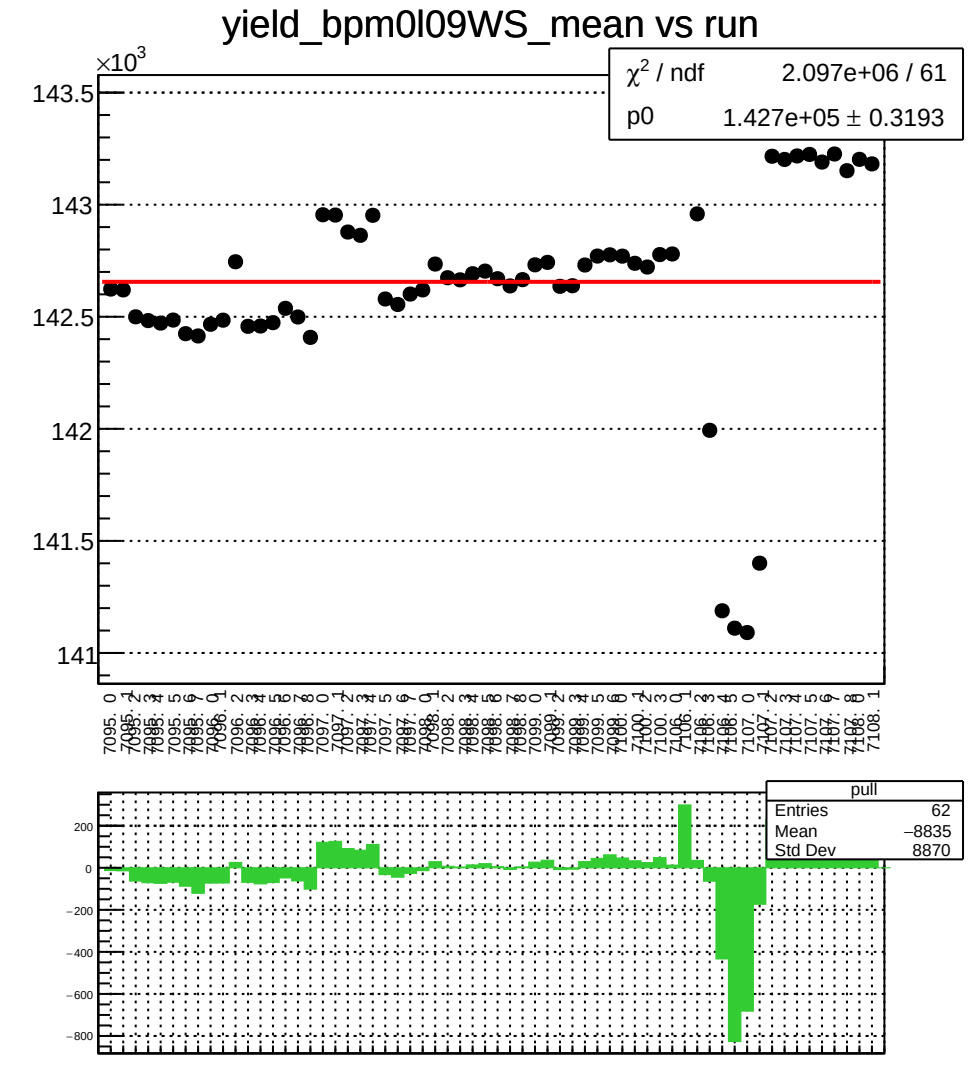

pull1D
Entries 62
Mean −0.7154
Std Dev 3.513
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

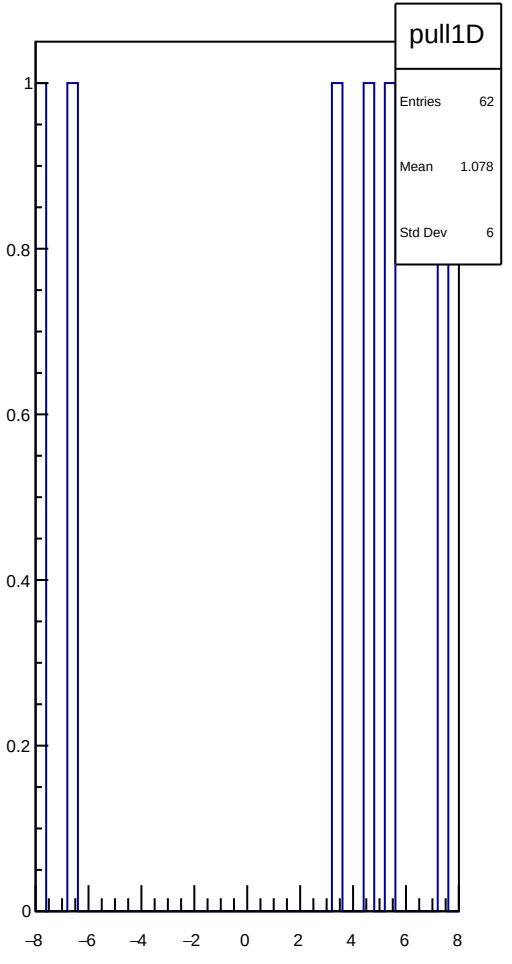

yield_bpm0l07WS_rms vs run
χ² / ndf 3.998e+04 / 61
p0 238.8 ± 0.2242
1000
900
800
700
600
500
400
300
200

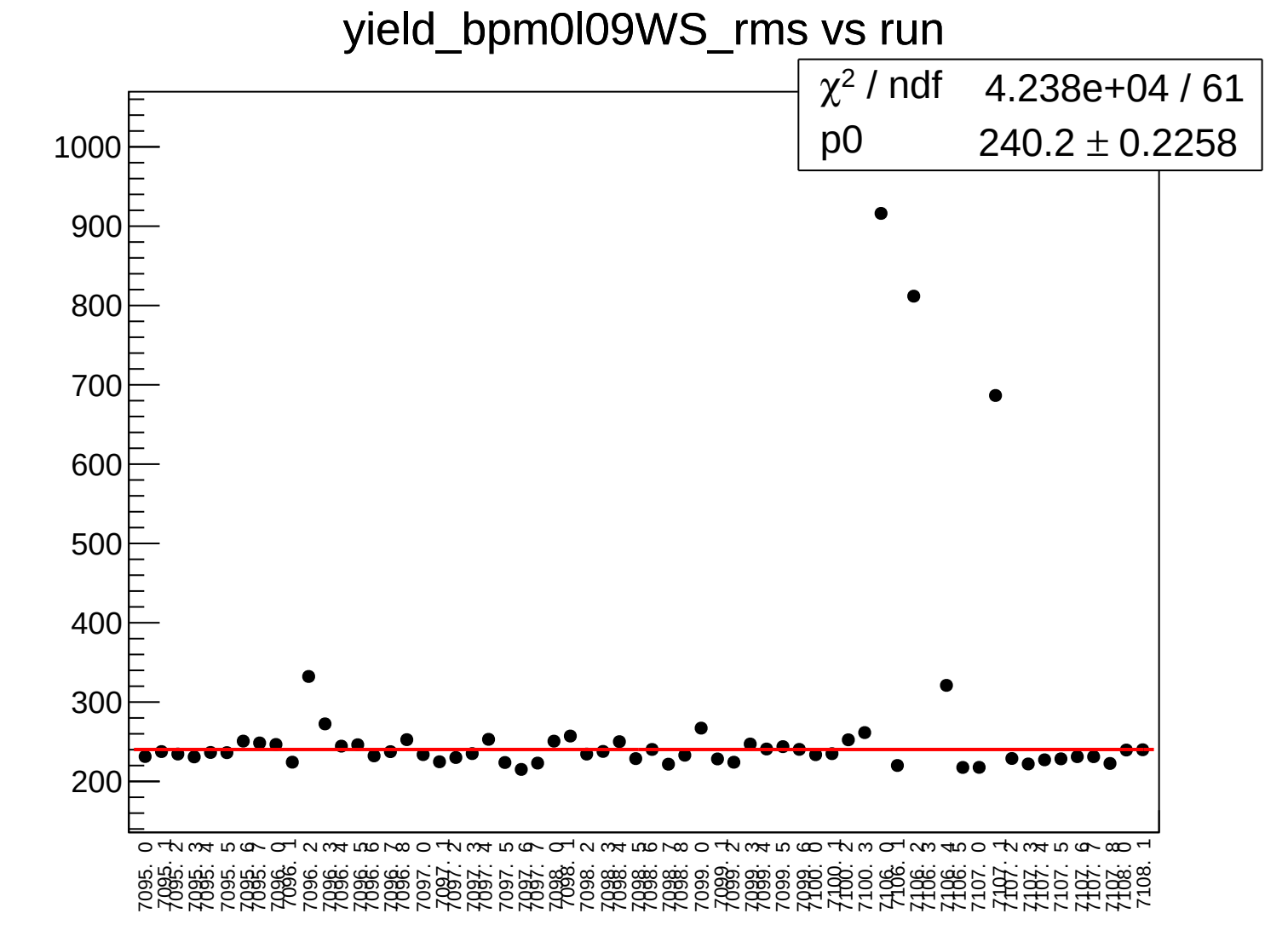

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.091e+06 / 61
p0 1.424e+05 ± 0.3153
143
142.5
142
141.5
141
140.5
140
pull
Entries 62
Mean 1013
Std Dev 979.8
200
0
−200
−400
−600
−800
−1000
−1200

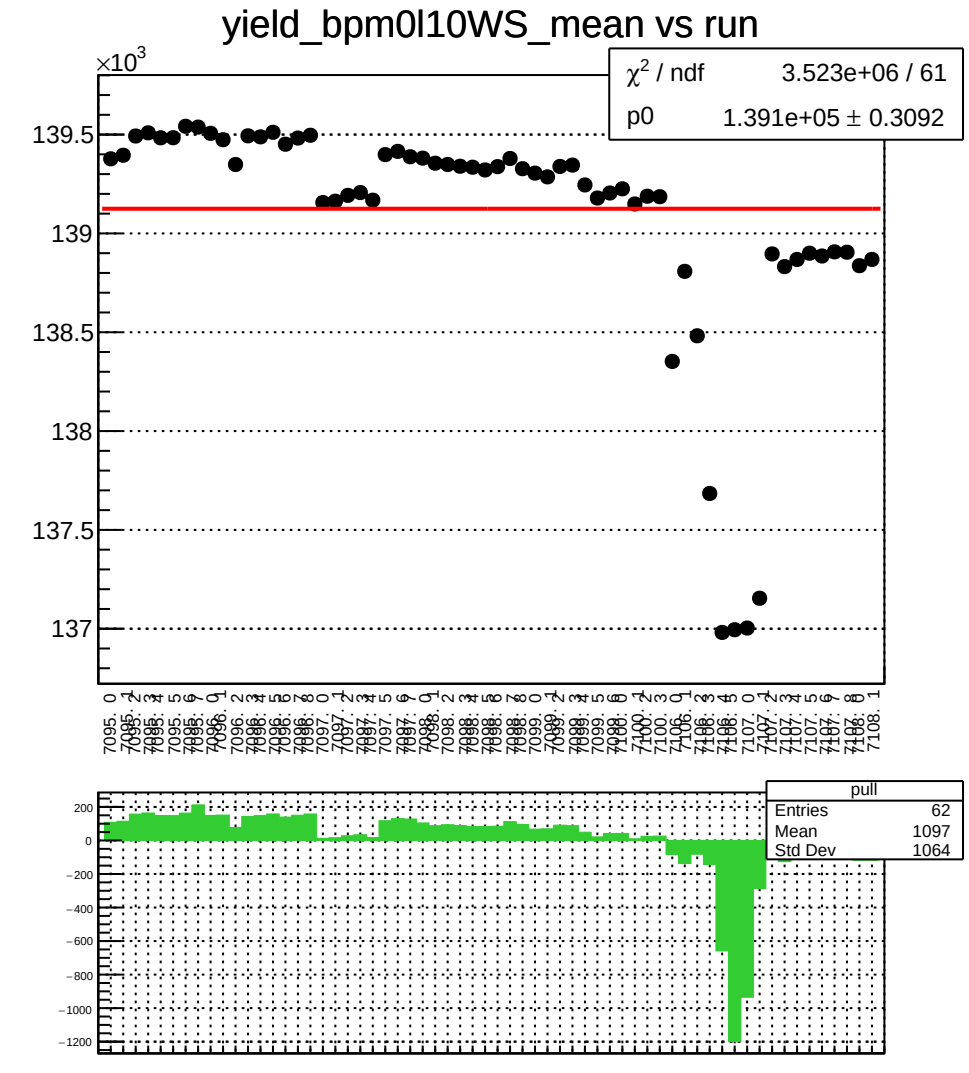

pull1D
Entries 62
Mean 4.553
Std Dev 2.605
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

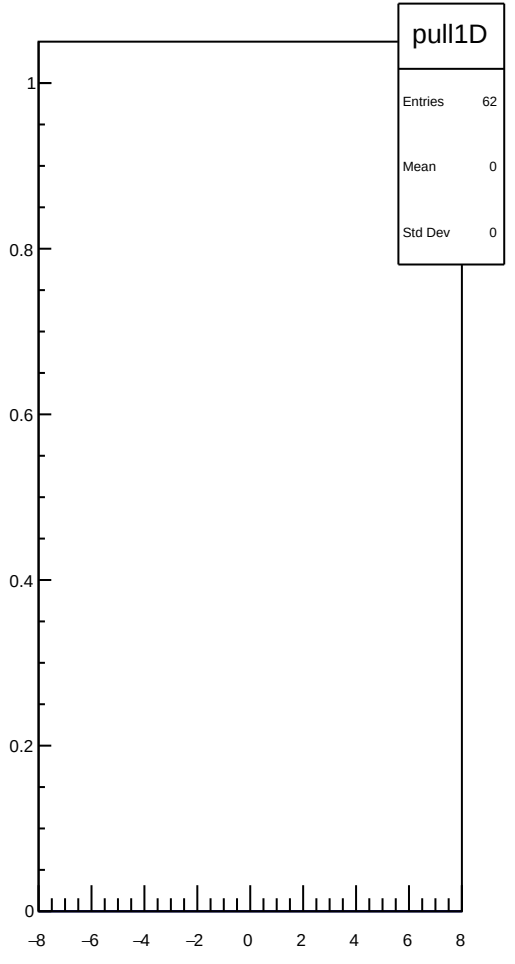

yield_bpm0l08WS_rms vs run
χ² / ndf 3.999e+04 / 61
p0 237.4 ± 0.2229
1000
900
800
700
600
500
400
300
200

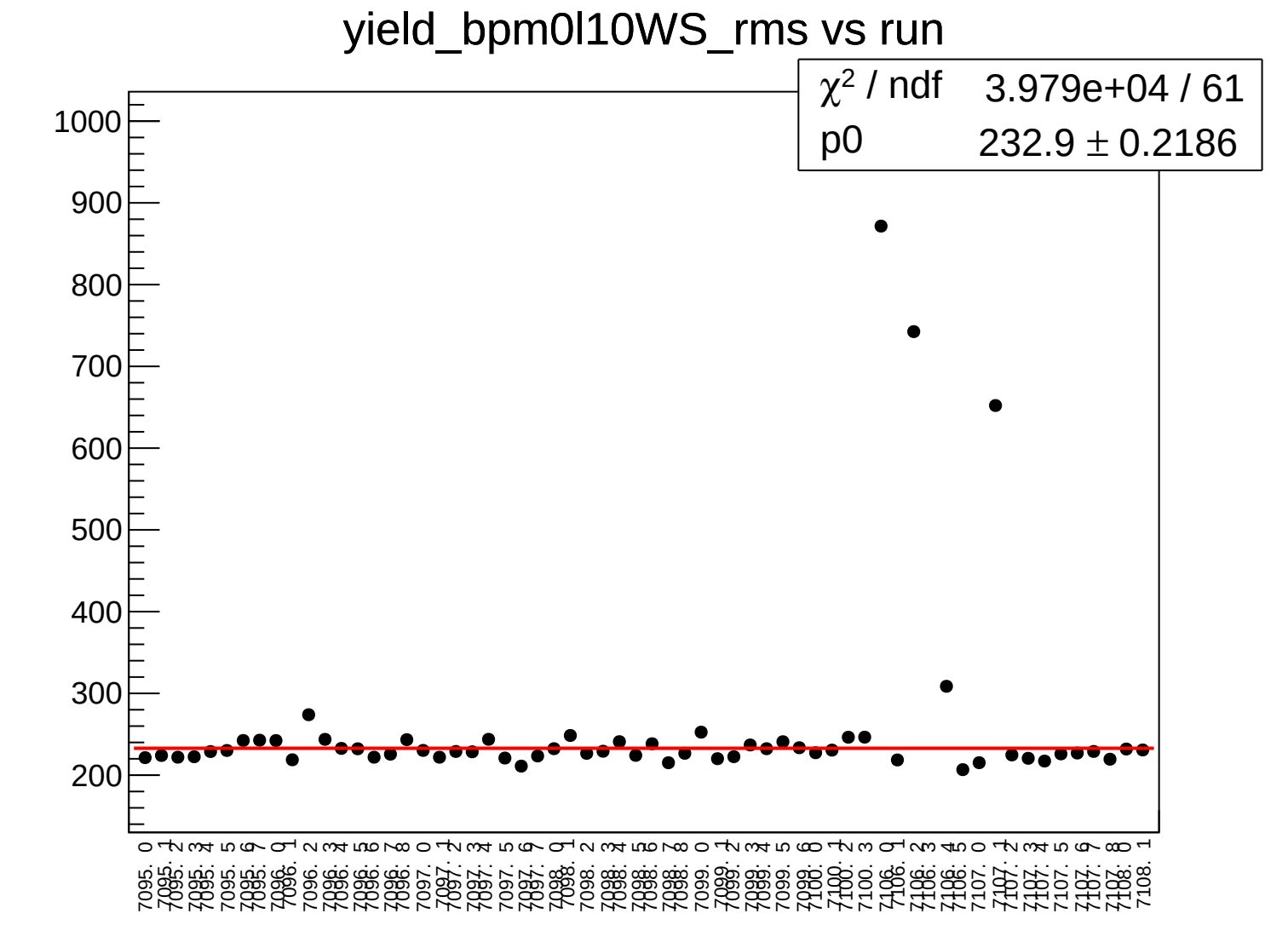

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.097e+06 / 61
p0 1.427e+05 ± 0.3193
143.5
143
142.5
142
141.5
141
pull
Entries 62
Mean −8835
Std Dev 8870
200
0
−200
−400
−600
−800

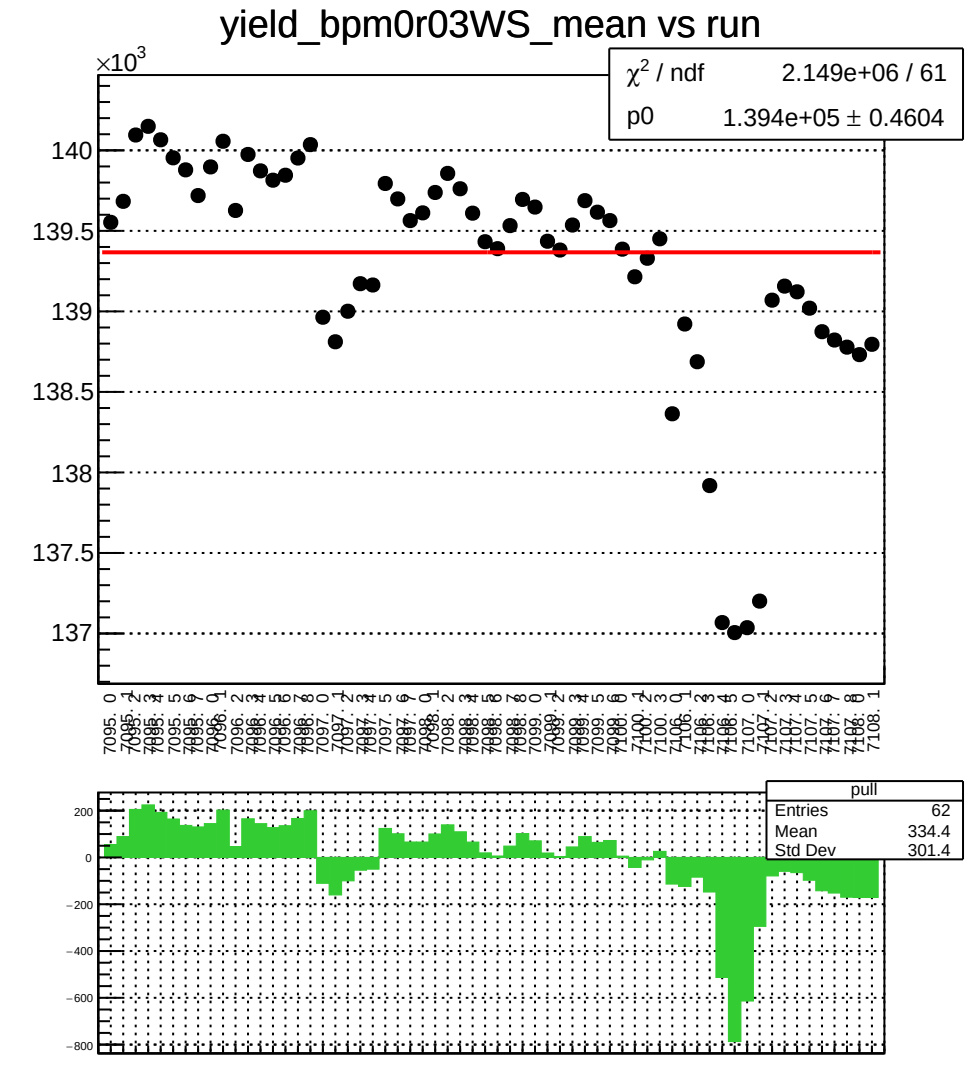

pull1D
Entries 62
Mean 1.078
Std Dev 6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

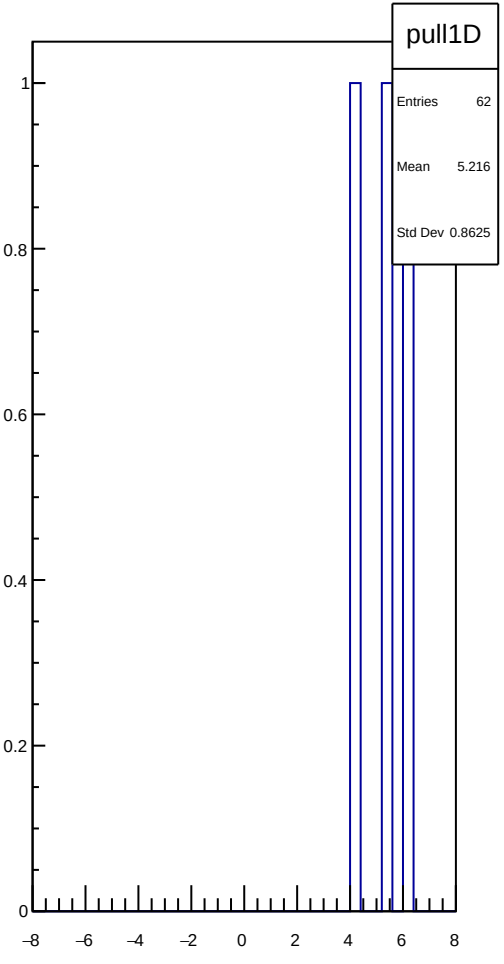

yield_bpm0l09WS_rms vs run
χ² / ndf 4.238e+04 / 61
p0 240.2 ± 0.2258
1000
900
800
700
600
500
400
300
200

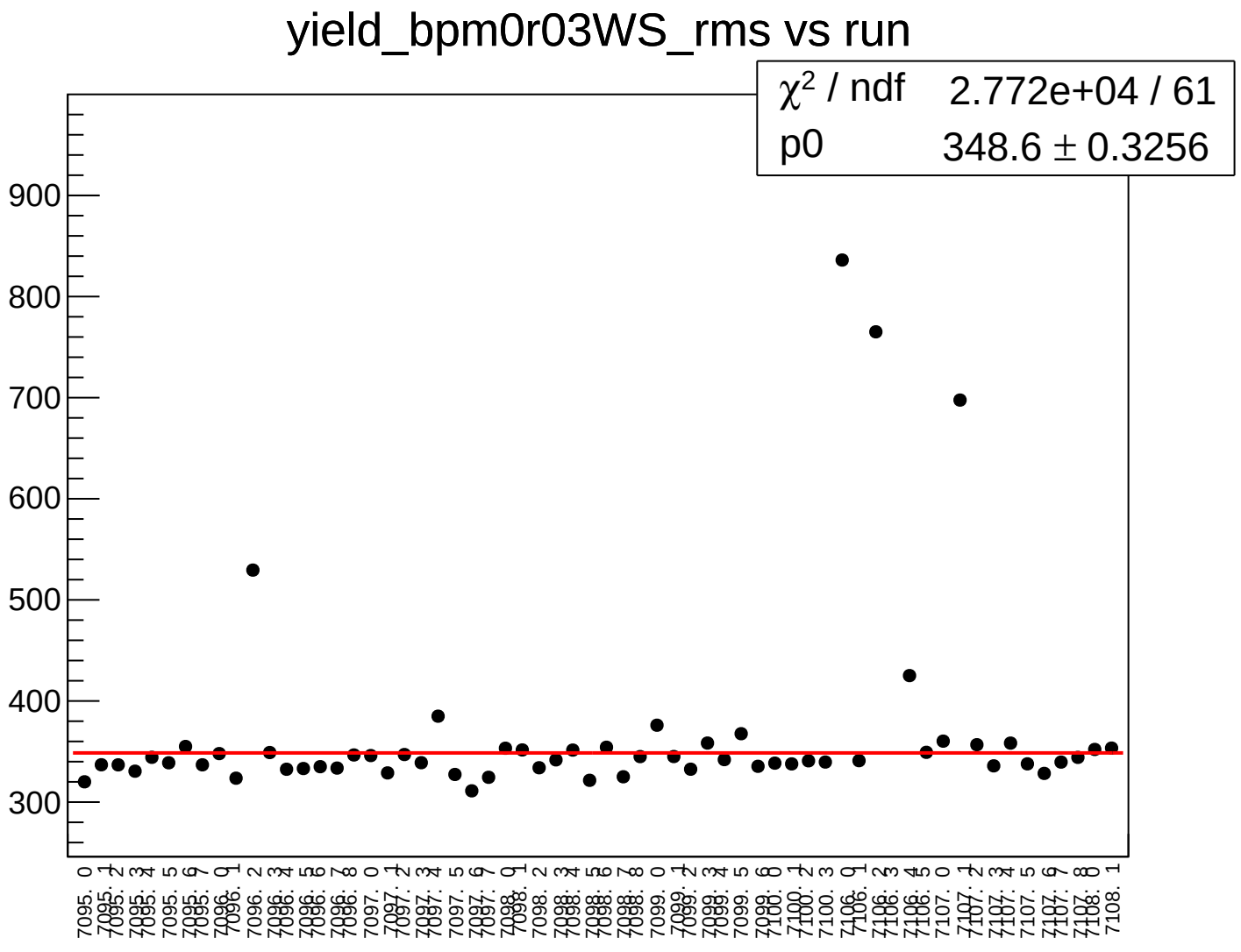

yield_bpm0l10WS_mean vs run
×10^3
χ^2 / ndf 3.523e+06 / 61
p0 1.391e+05 ± 0.3092
139.5
139
138.5
138
137.5
137
pull
Entries 62
Mean 1097
Std Dev 1064
200
0
−200
−400
−600
−800
−1000
−1200

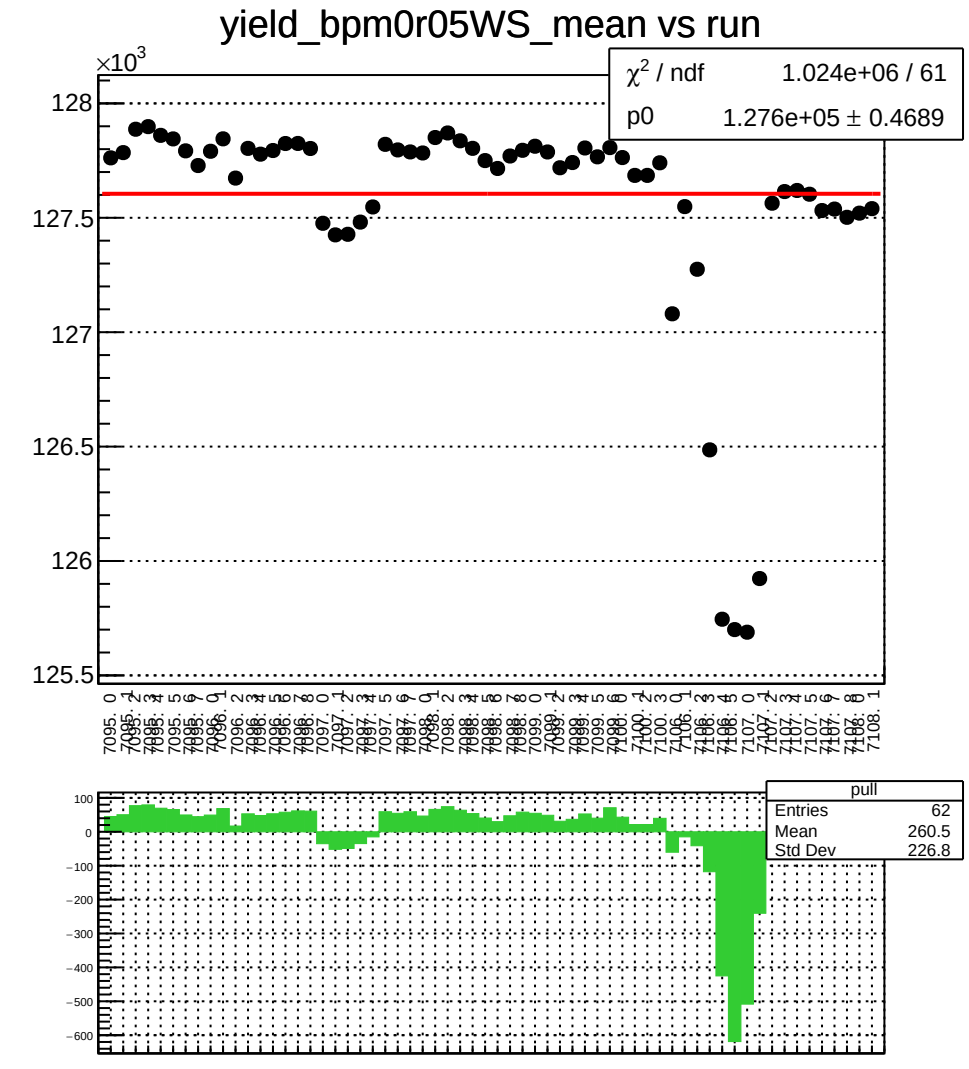

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

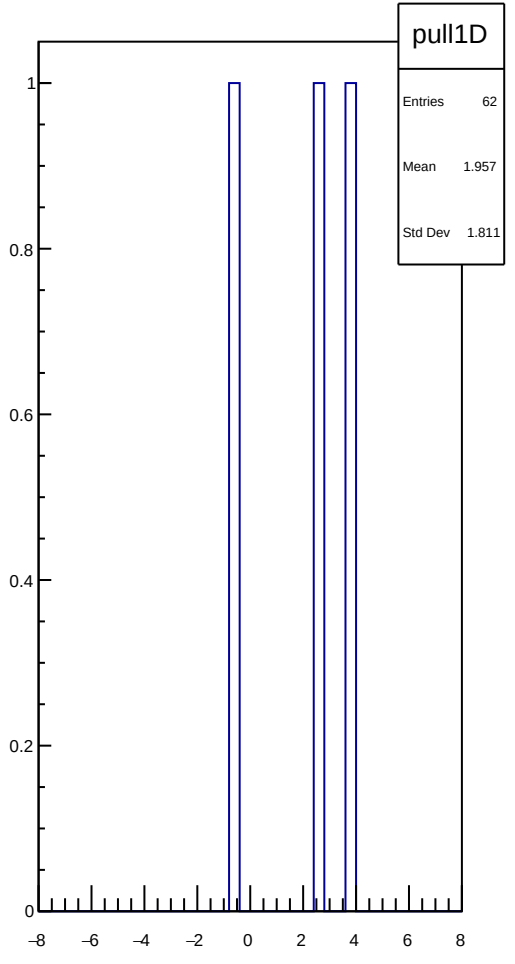

yield_bpm0l10WS_rms vs run
χ² / ndf 3.979e+04 / 61
p0 232.9 ± 0.2186
1000
900
800
700
600
500
400
300
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

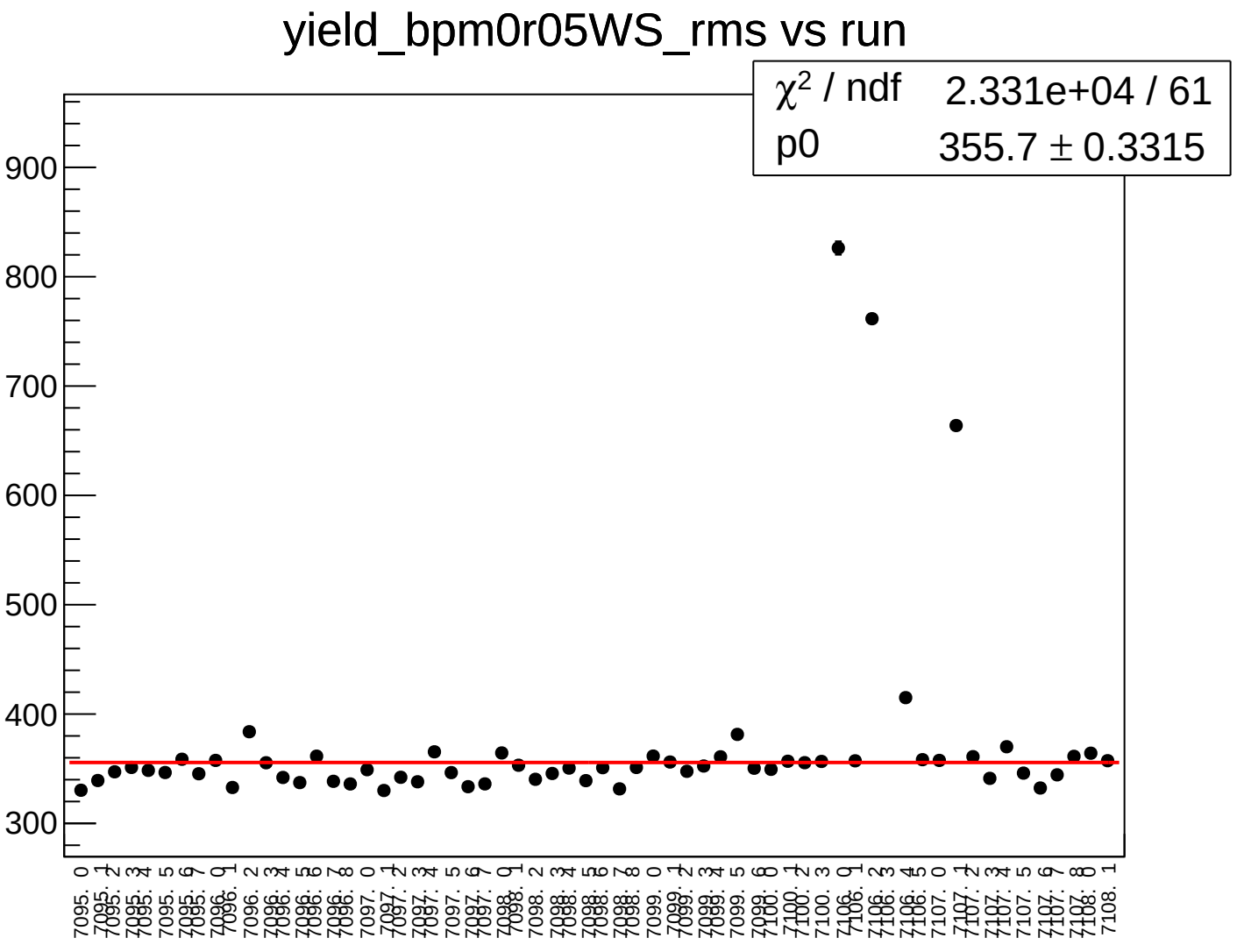

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.149e+06 / 61
p0 1.394e+05 ± 0.4604
140
139.5
139
138.5
138
137.5
137
pull
Entries 62
Mean 334.4
Std Dev 301.4
200
0
−200
−400
−600
−800

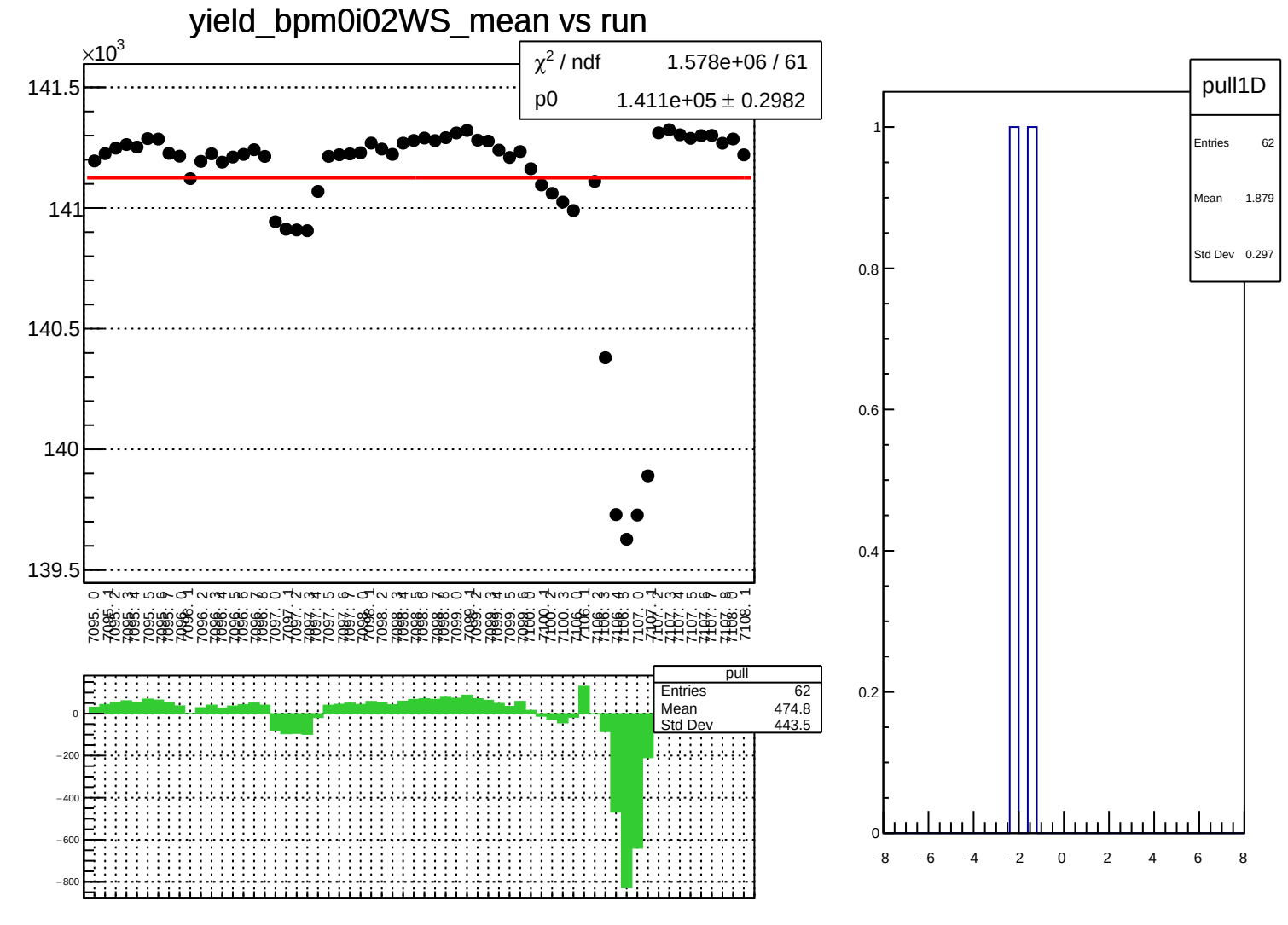

pull1D
Entries 62
Mean 5.216
Std Dev 0.8625
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

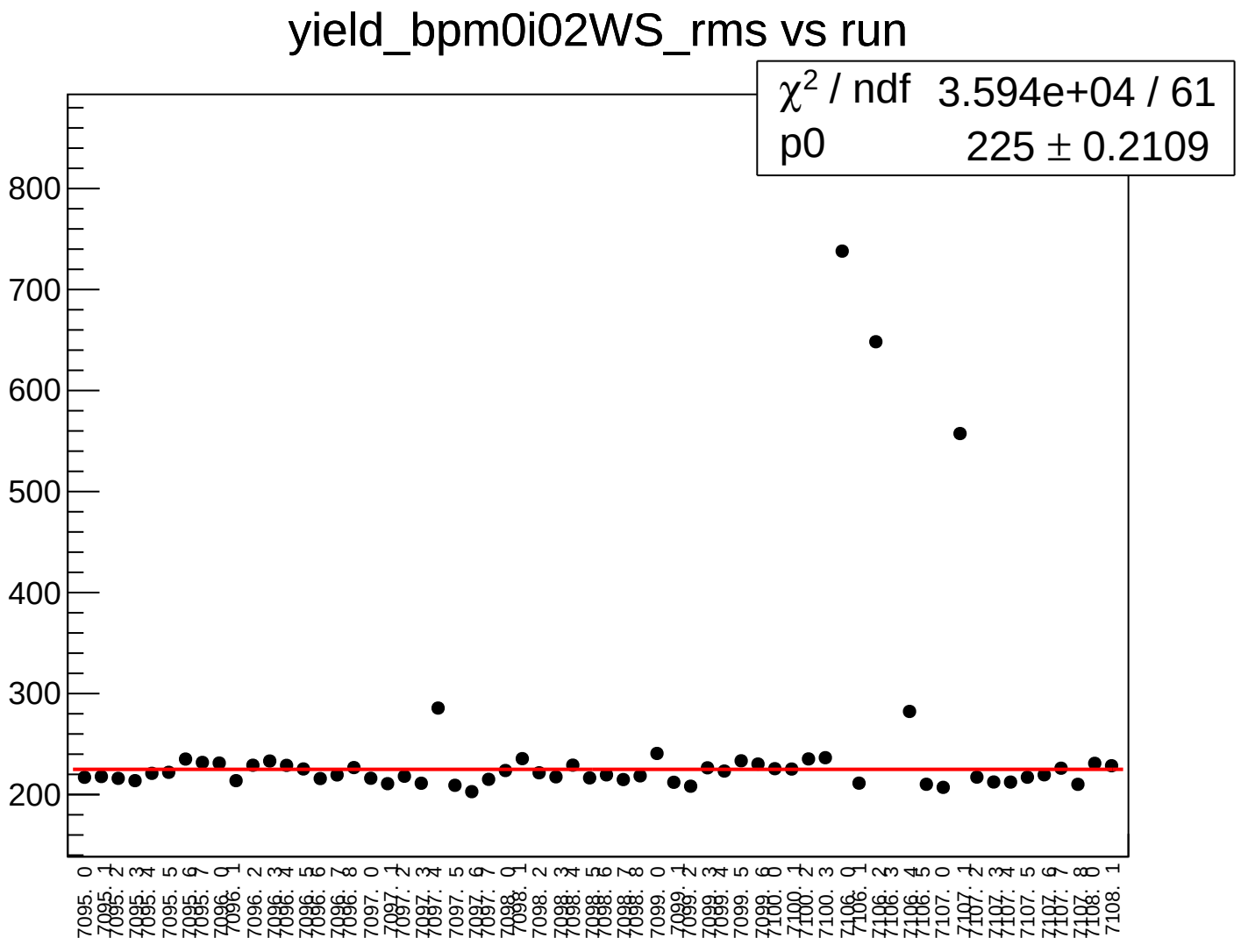

yield_bpm0r03WS_rms vs run
χ² / ndf 2.772e+04 / 61
p0 348.6 ± 0.3256
900
800
700
600
500
400
300
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

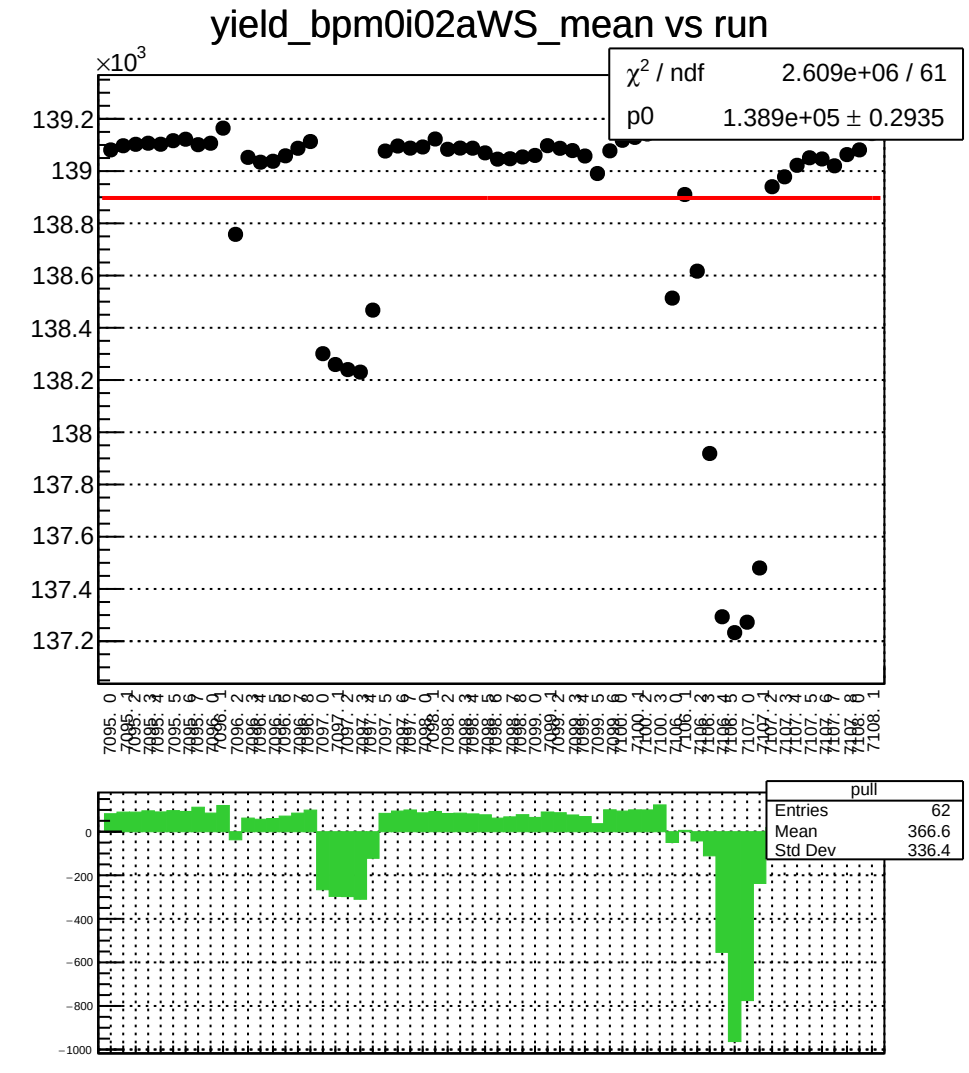

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.024e+06 / 61
p0 1.276e+05 ± 0.4689
128
127.5
127
126.5
126
125.5
pull
Entries 62
Mean 260.5
Std Dev 226.8
100
0
−100
−200
−300
−400
−500
−600

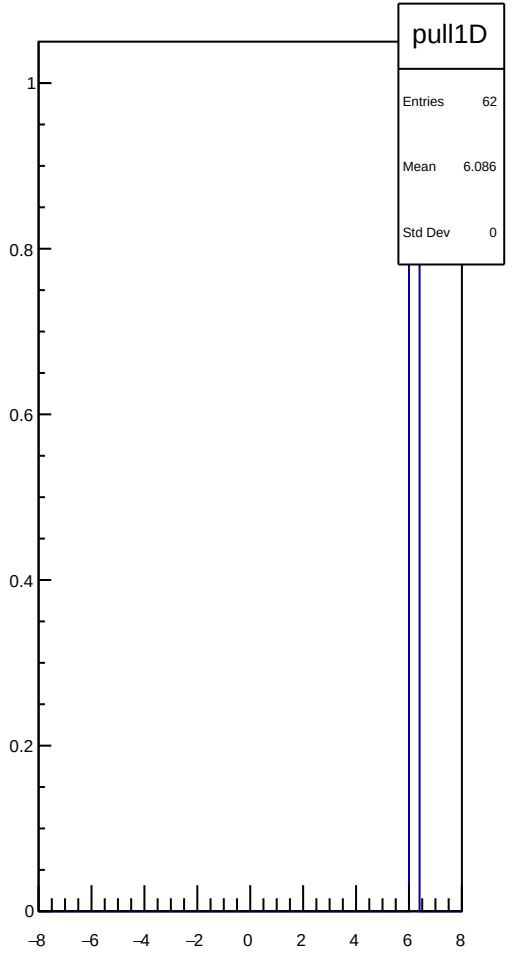

pull1D
Entries 62
Mean 1.957
Std Dev 1.811
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

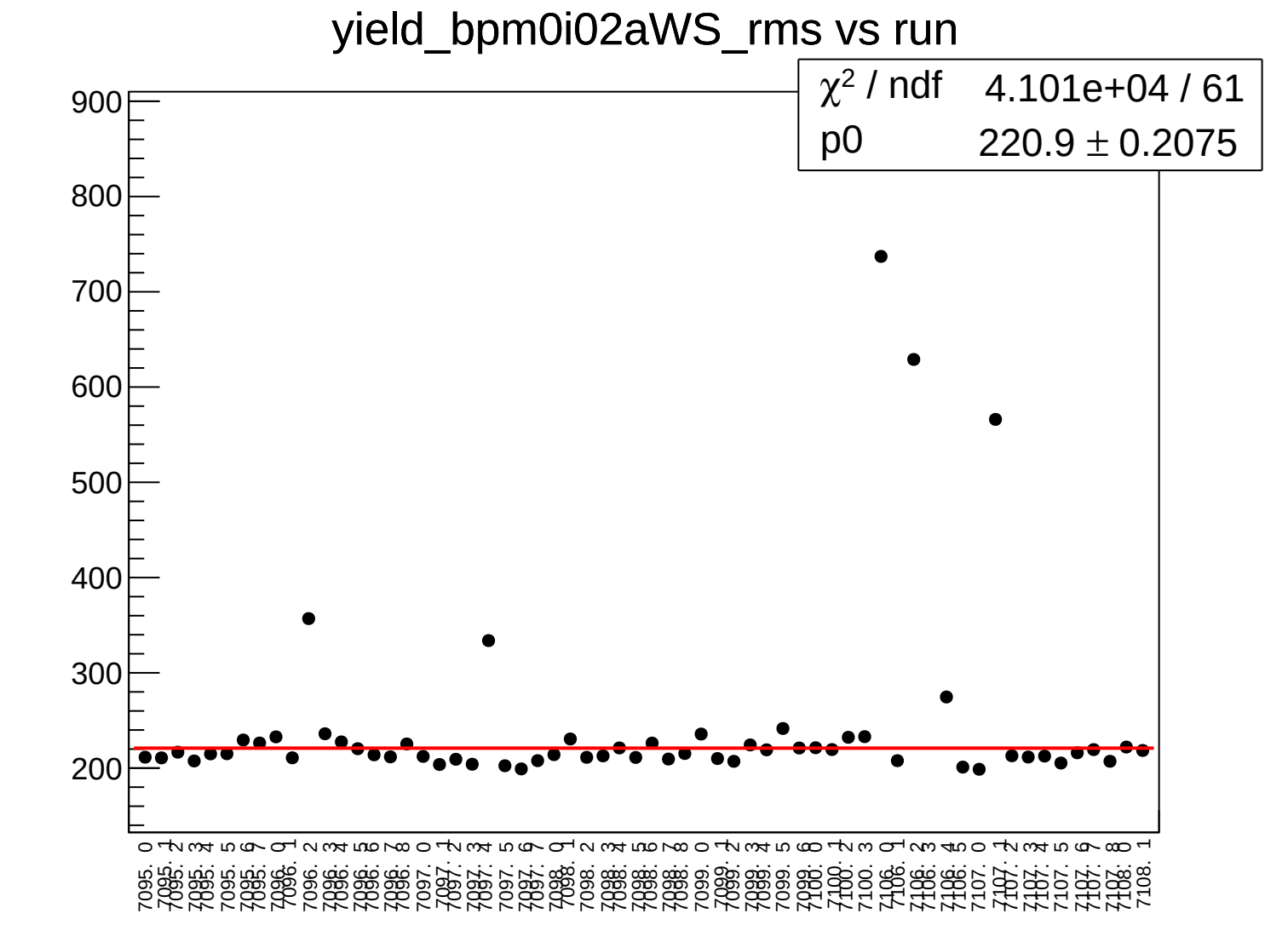

yield_bpm0r05WS_rms vs run
χ² / ndf 2.331e+04 / 61
p0 355.7 ± 0.3315
900
800
700
600
500
400
300
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

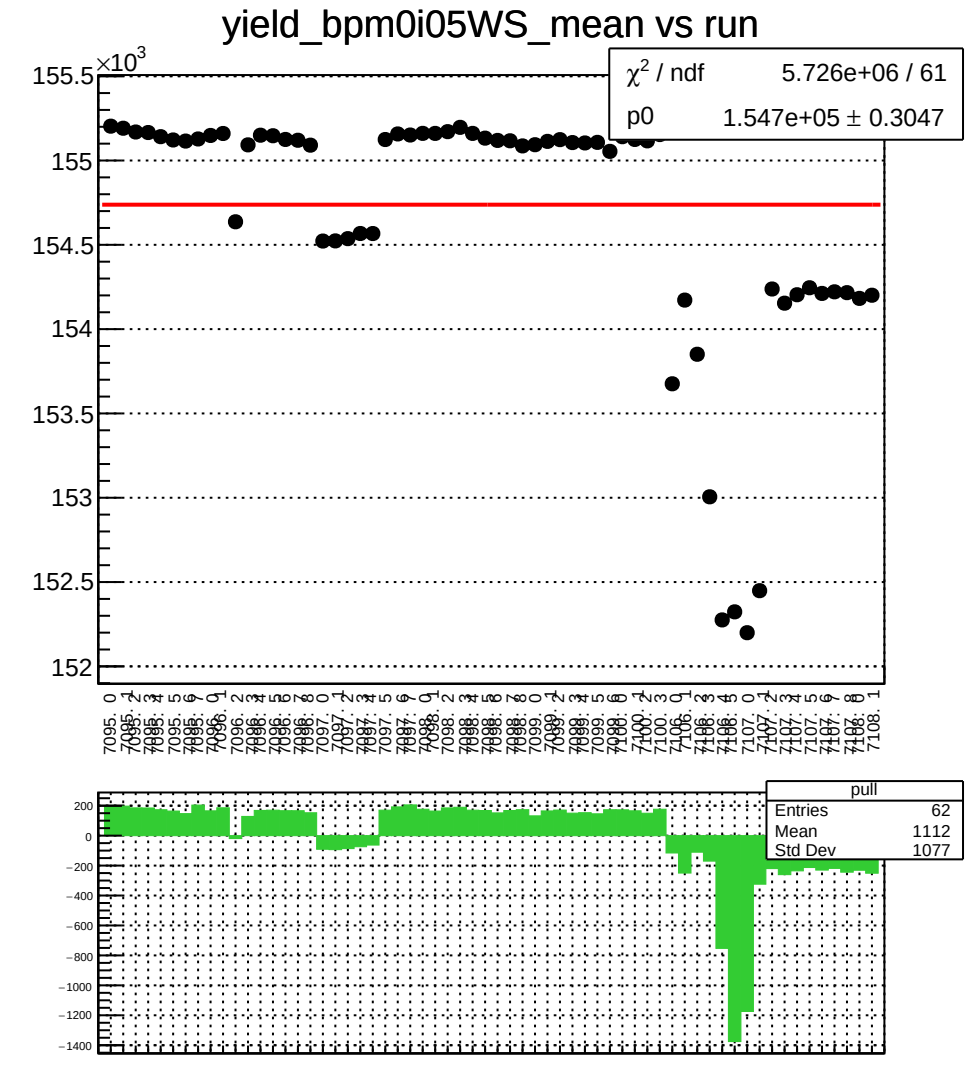

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.578e+06 / 61
p0 1.411e+05 ± 0.2982
141.5
141
140.5
140
139.5
pull
Entries 62
Mean 474.8
Std Dev 443.5
0
−200
−400
−600
−800
pull1D
Entries 62
Mean −1.879
Std Dev 0.297
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

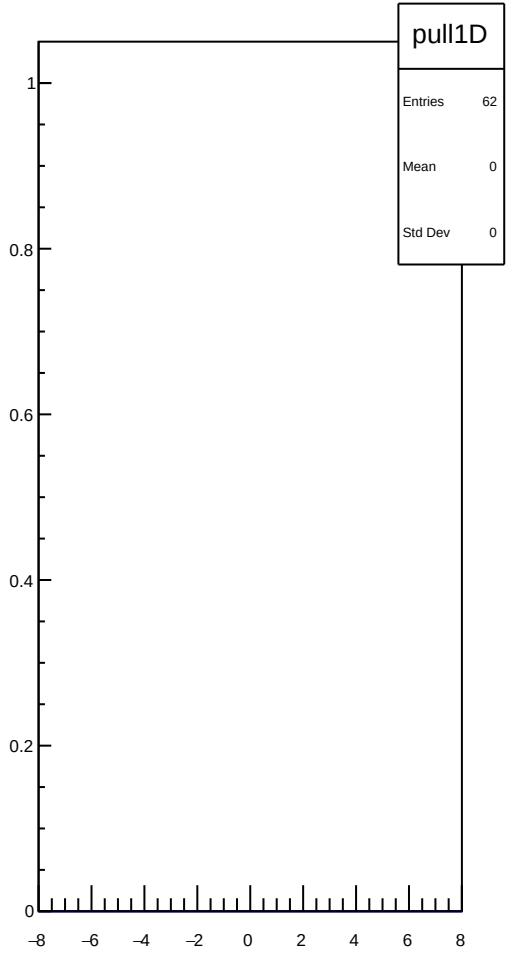

yield_bpm0i02WS_rms vs run
χ² / ndf 3.594e+04 / 61
p0 225 ± 0.2109
800
700
600
500
400
300
200

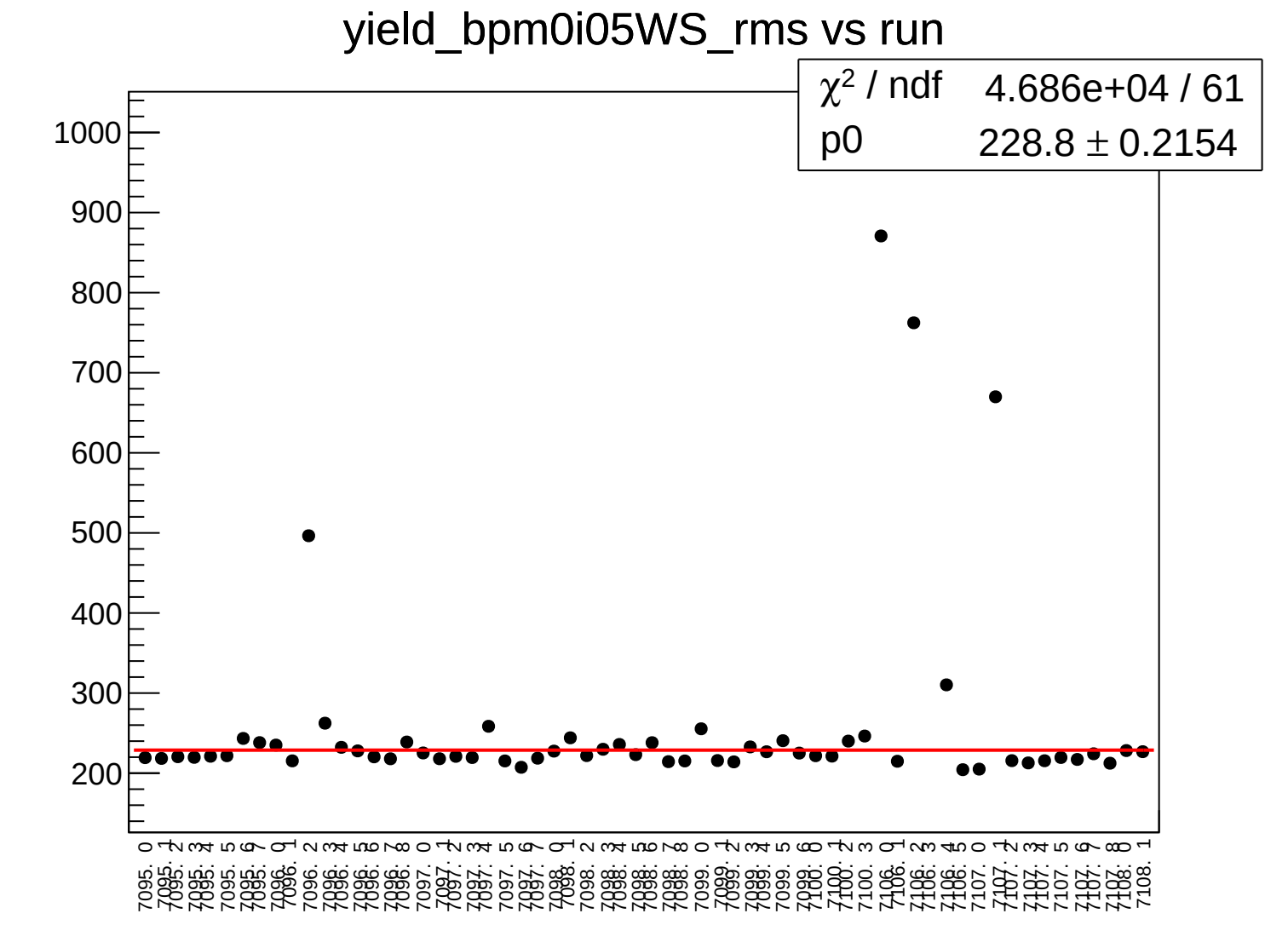

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.609e+06 / 61
p0 1.389e+05 ± 0.2935
pull
Entries 62
Mean 366.6
Std Dev 336.4

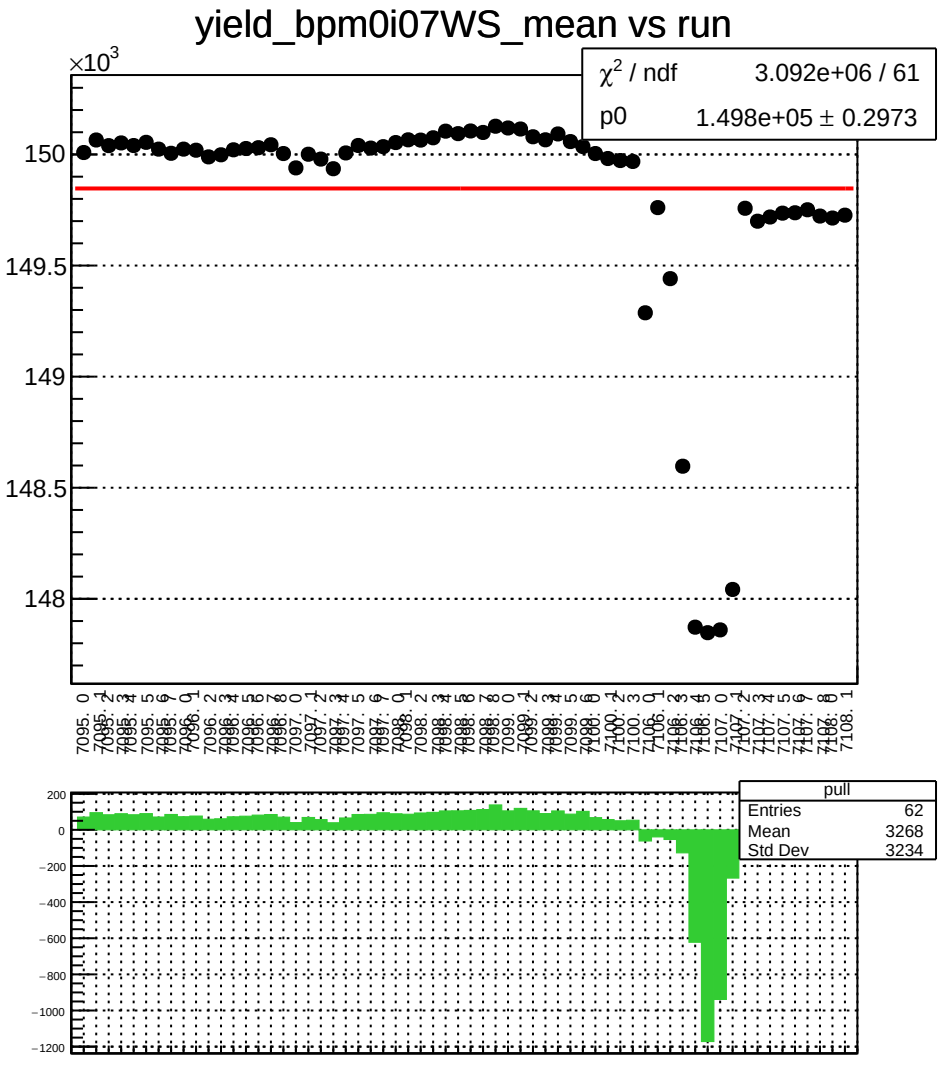

pull1D
Entries 62
Mean 6.086
Std Dev 0

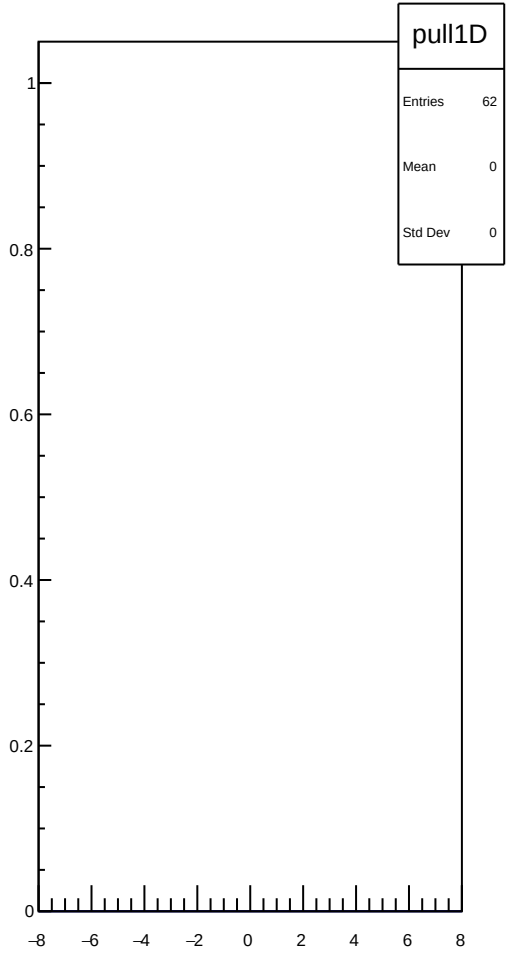

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.101e+04 / 61
p0 220.9 ± 0.2075
900
800
700
600
500
400
300
200
7095.0
7095.1
7095.2
7095.3
7095.4
7095.5
7095.6
7095.7
7095.8
7095.9
7096.0
7096.1
7096.2
7096.3
7096.4
7096.5
7096.6
7096.7
7096.8
7096.9
7097.0
7097.1
7097.2
7097.3
7097.4
7097.5
7097.6
7097.7
7097.8
7097.9
7098.0
7098.1
7098.2
7098.3
7098.4
7098.5
7098.6
7098.7
7098.8
7098.9
7099.0
7099.1
7099.2
7099.3
7099.4
7099.5
7099.6
7099.7
7099.8
7099.9
7100.0
7100.1
7100.2
7100.3
7106.0
7106.1
7106.2
7106.3
7106.4
7106.5
7107.0
7107.1
7107.2
7107.3
7107.4
7107.5
7107.6
7107.7
7107.8
7107.9
7108.0
7108.1

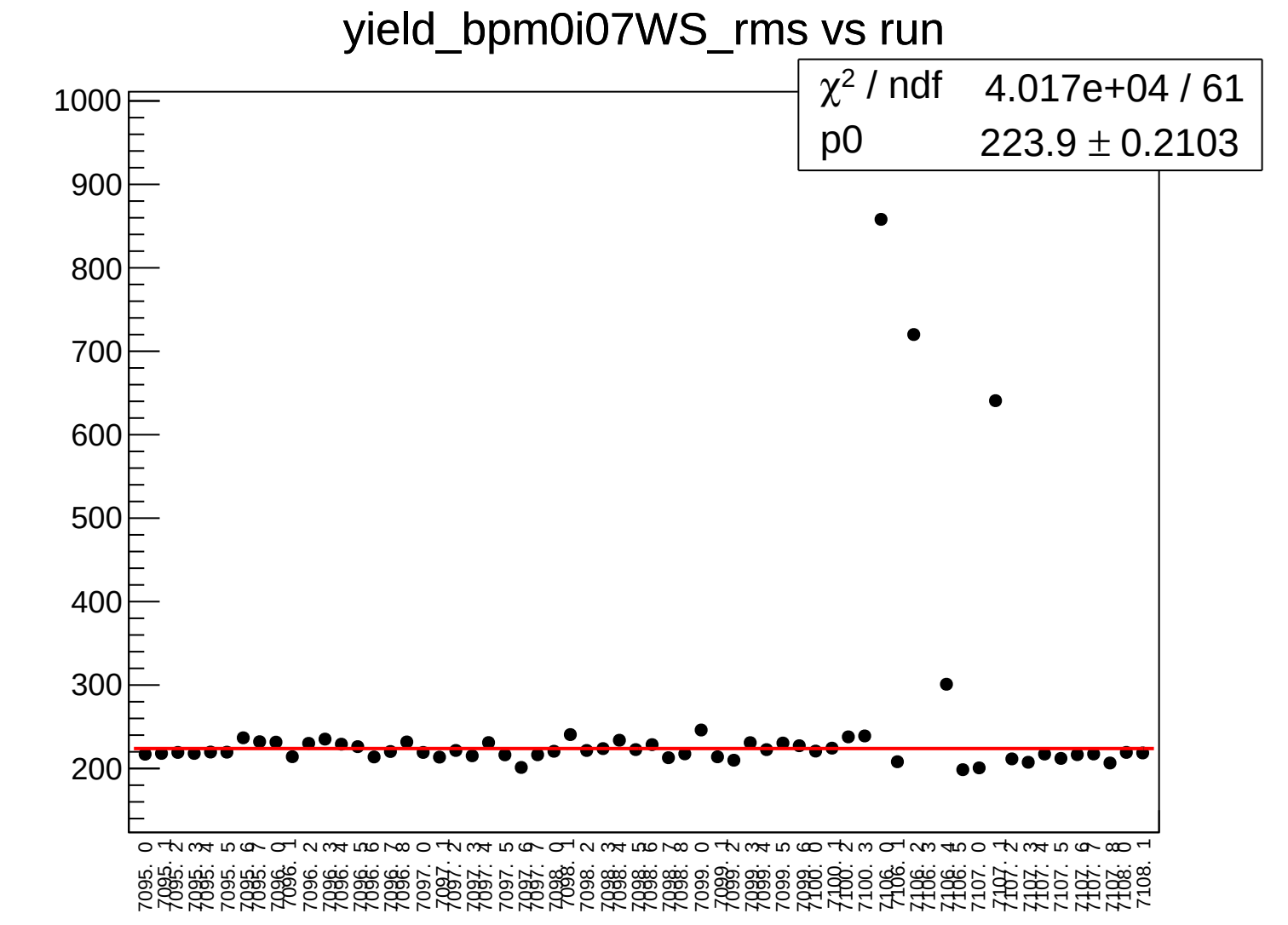

yield_bpm0i05WS_mean vs run
×10^3
155.5
155
154.5
154
153.5
153
152.5
152
χ² / ndf 5.726e+06 / 61
p0 1.547e+05 ± 0.3047
pull
Entries 62
Mean 1112
Std Dev 1077
200
0
−200
−400
−600
−800
−1000
−1200
−1400

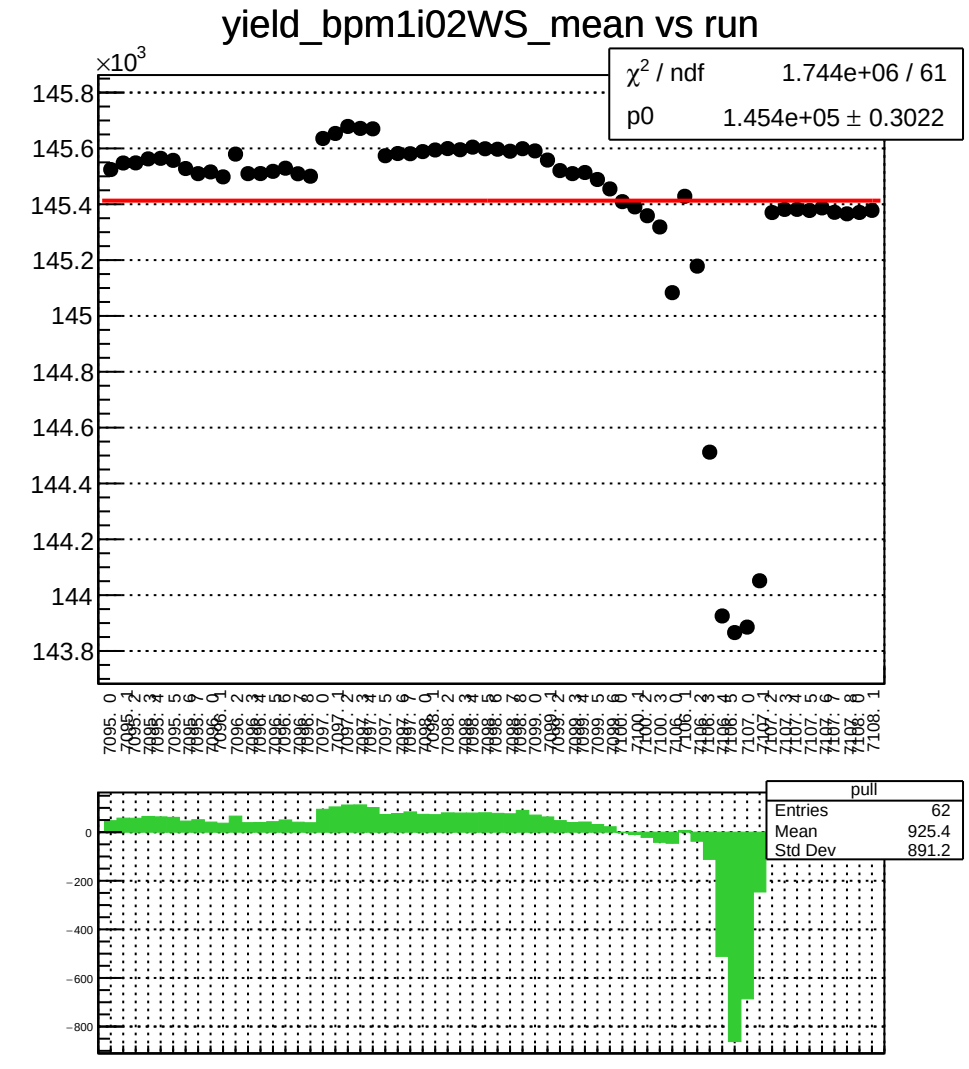

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

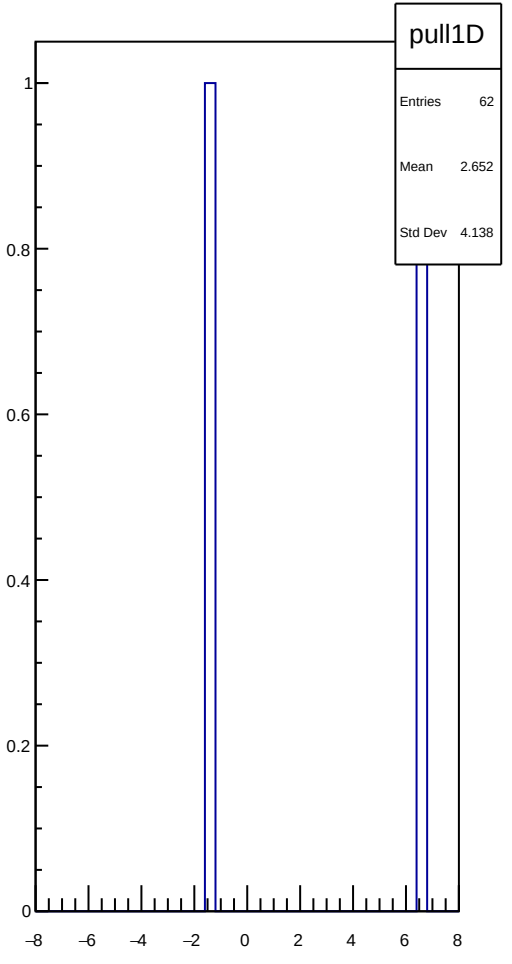

yield_bpm0i05WS_rms vs run
χ² / ndf 4.686e+04 / 61
p0 228.8 ± 0.2154
1000
900
800
700
600
500
400
300
200

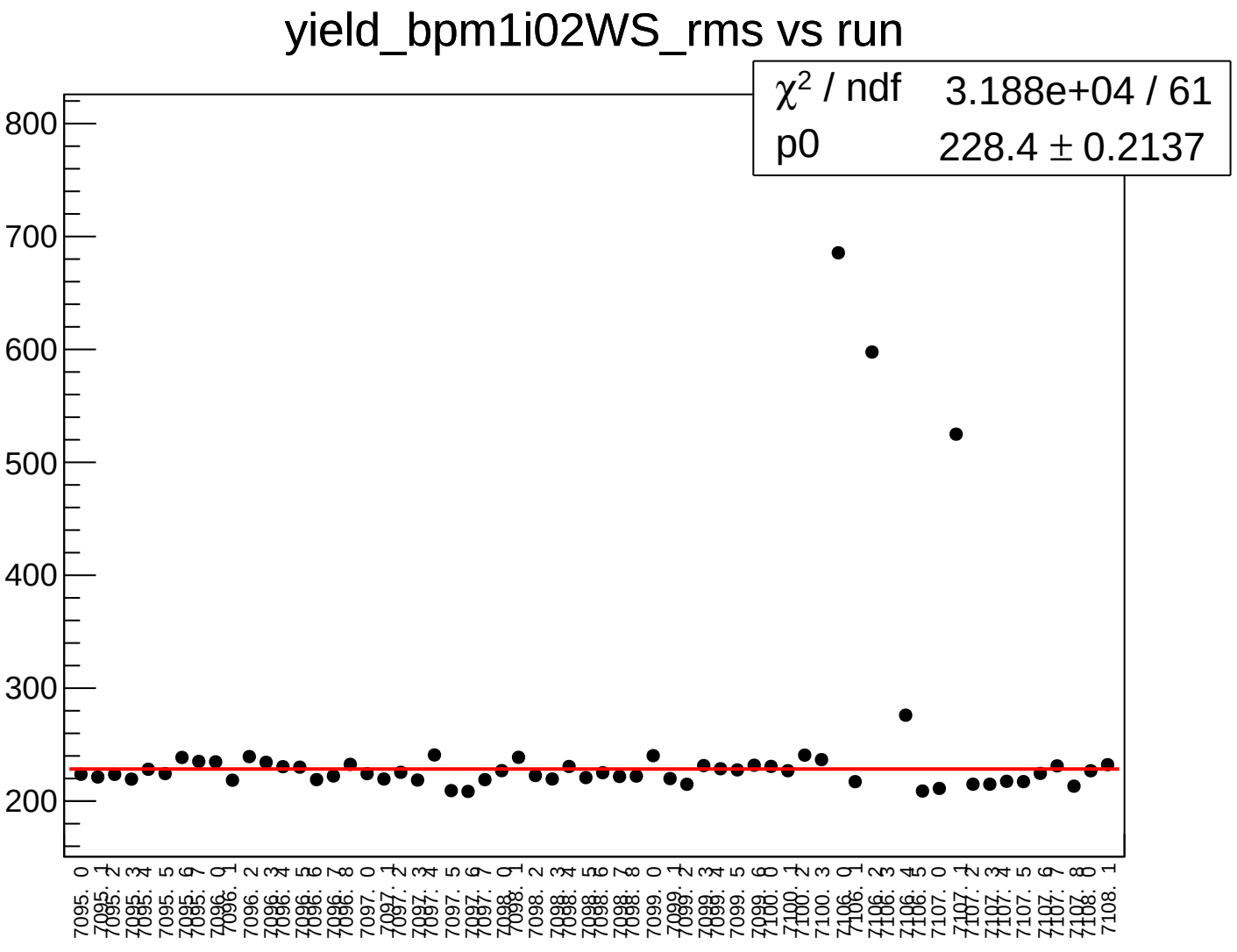

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.092e+06 / 61
p0 1.498e+05 ± 0.2973
150
149.5
149
148.5
148
pull
Entries 62
Mean 3268
Std Dev 3234
200
0
−200
−400
−600
−800
−1000
−1200

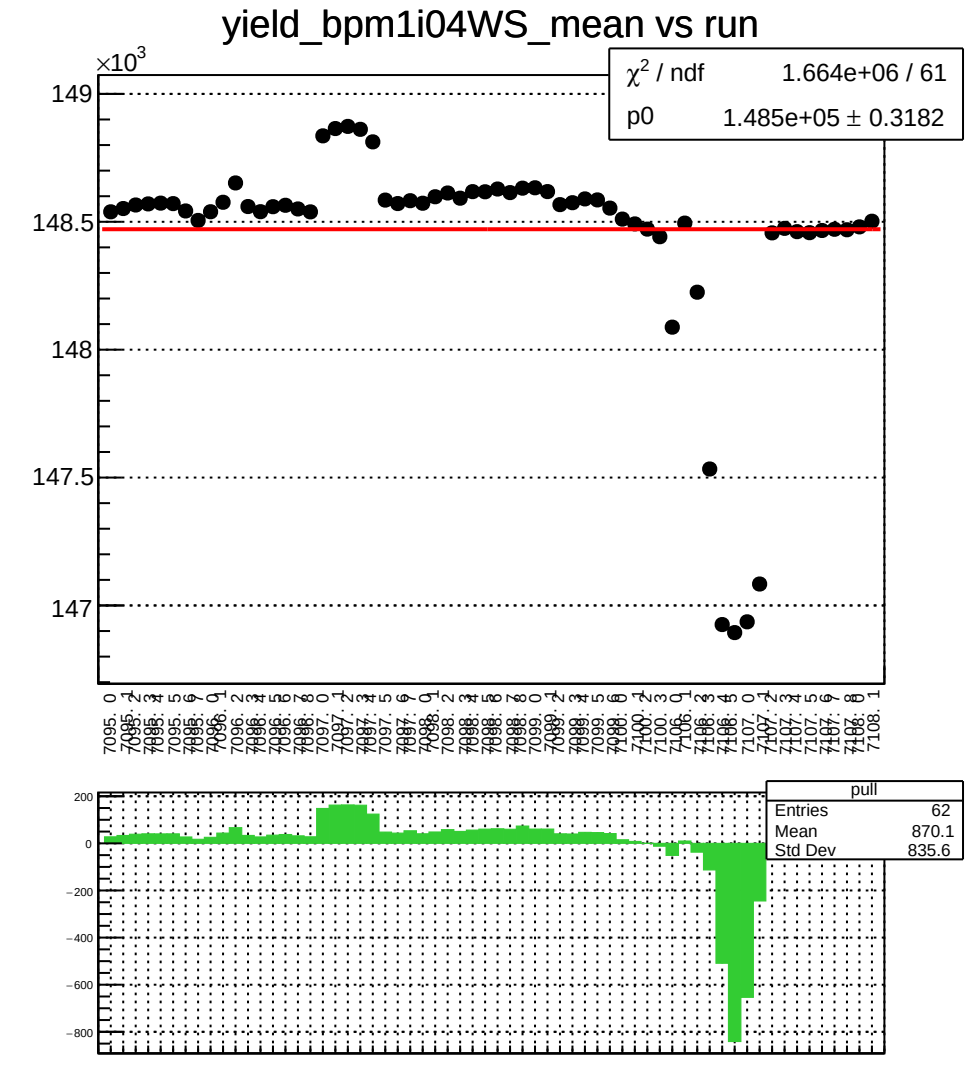

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

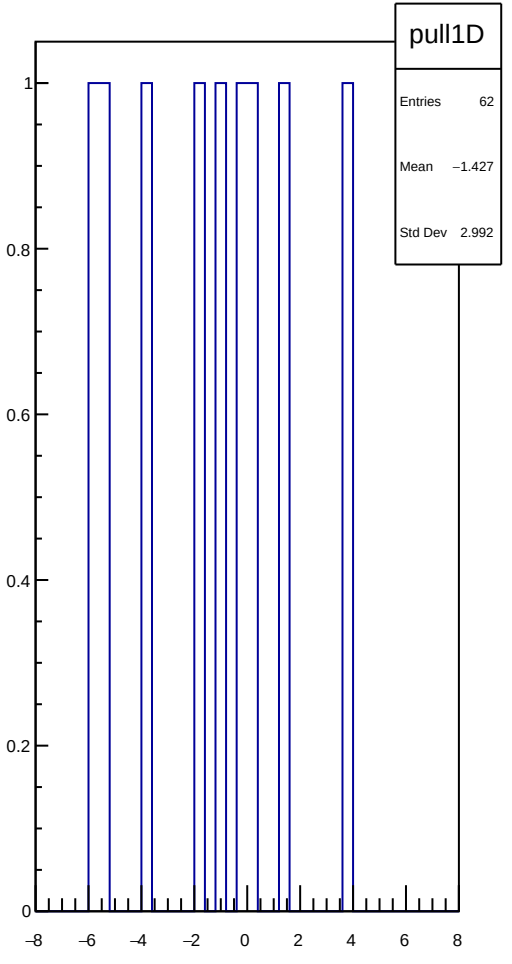

yield_bpm0i07WS_rms vs run
χ² / ndf 4.017e+04 / 61
p0 223.9 ± 0.2103
1000
900
800
700
600
500
400
300
200

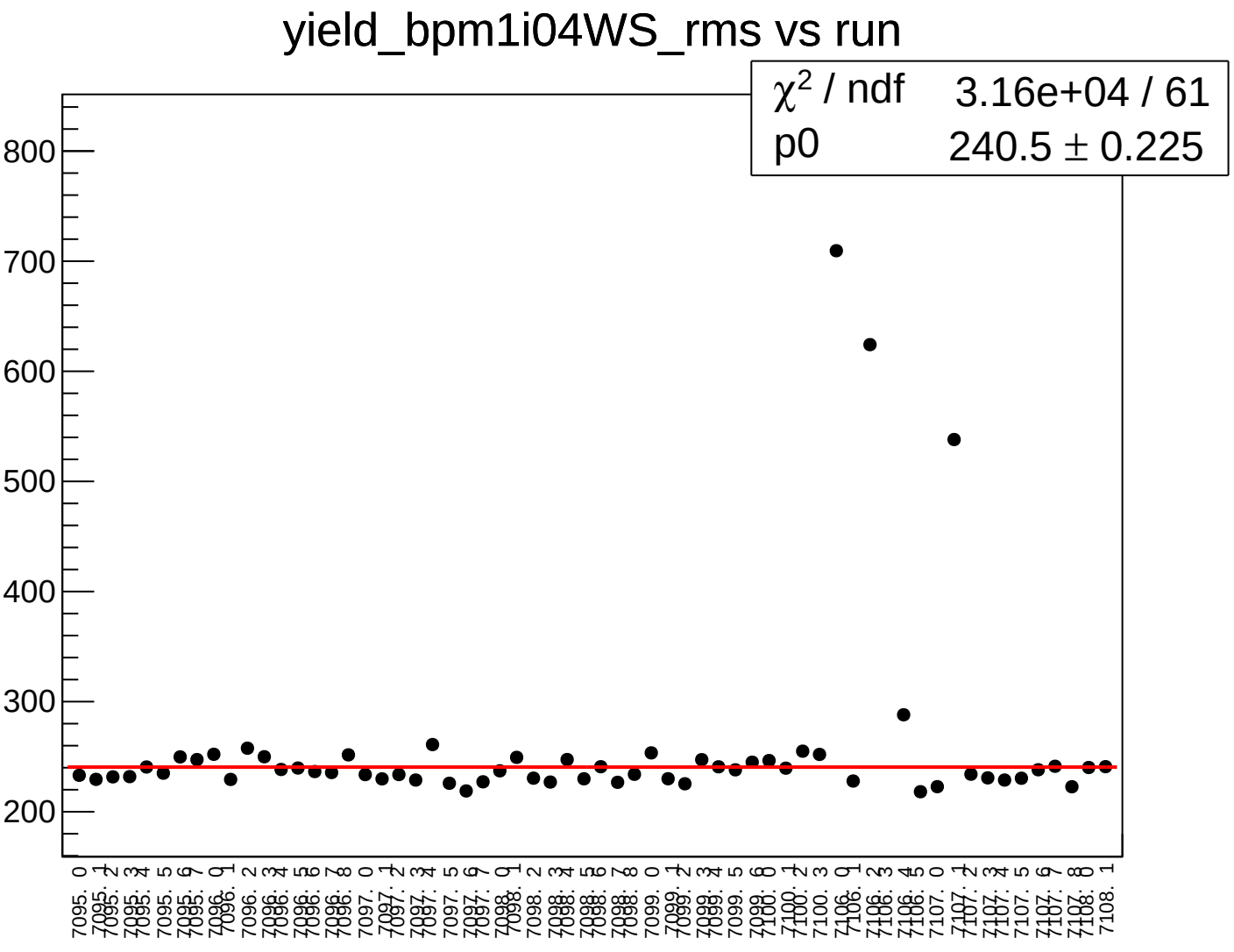

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.744e+06 / 61
p0 1.454e+05 ± 0.3022
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
144
143.8
pull
Entries 62
Mean 925.4
Std Dev 891.2
0
−200
−400
−600
−800

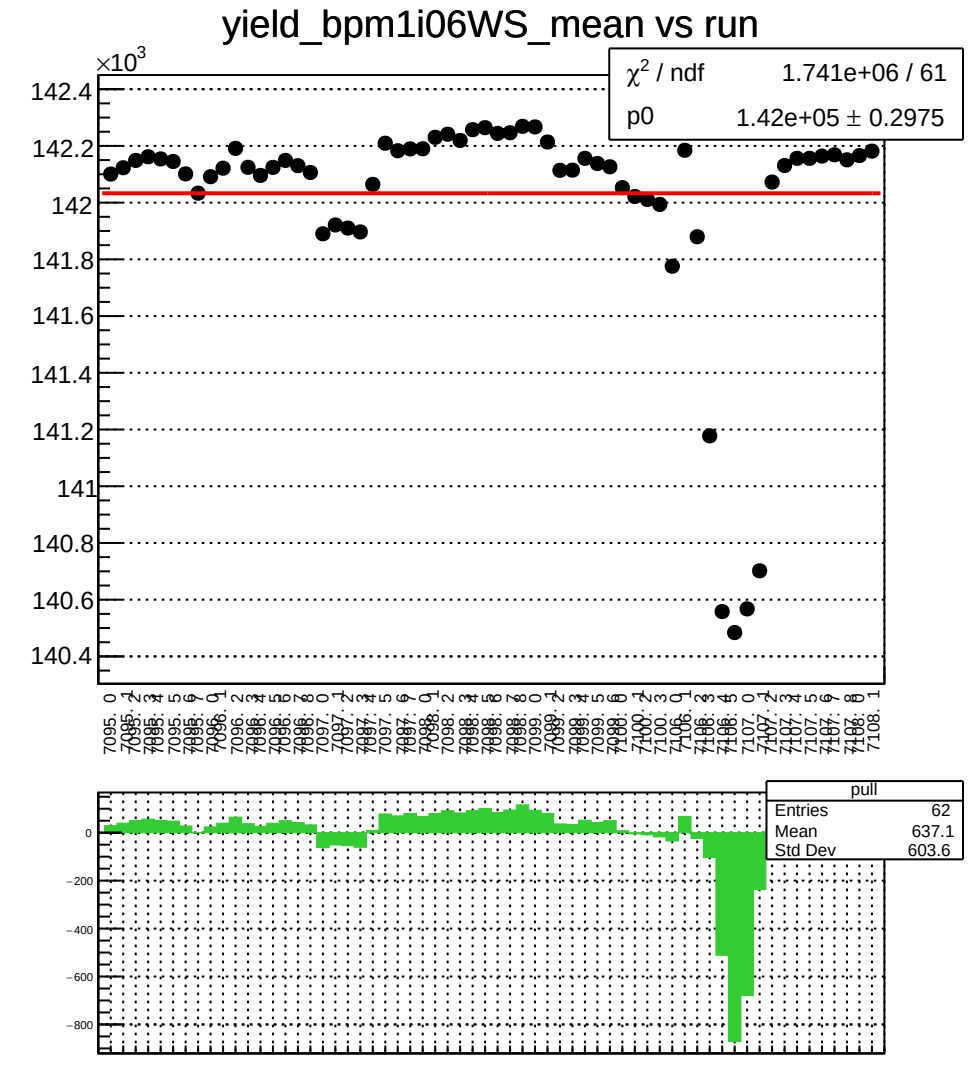

pull1D
Entries 62
Mean 2.652
Std Dev 4.138
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

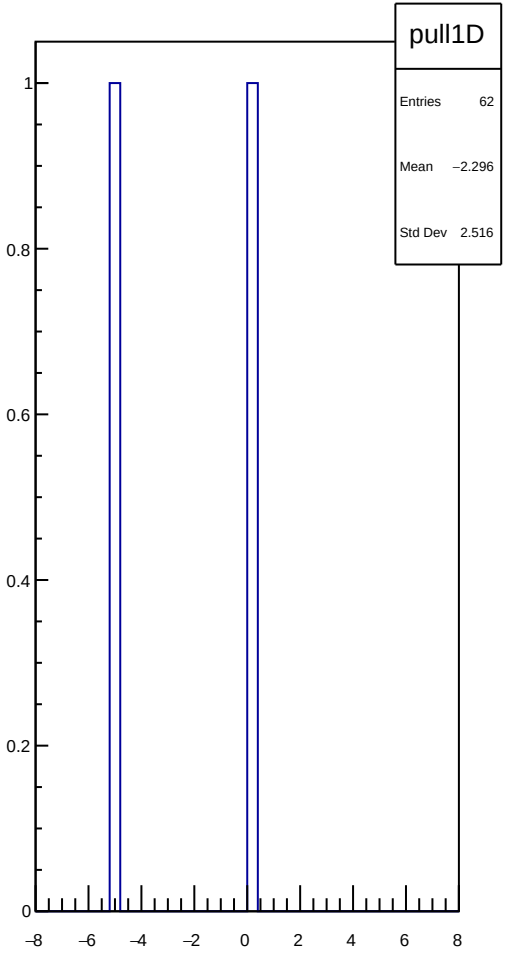

yield_bpm1i02WS_rms vs run
χ² / ndf 3.188e+04 / 61
p0 228.4 ± 0.2137
800
700
600
500
400
300
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

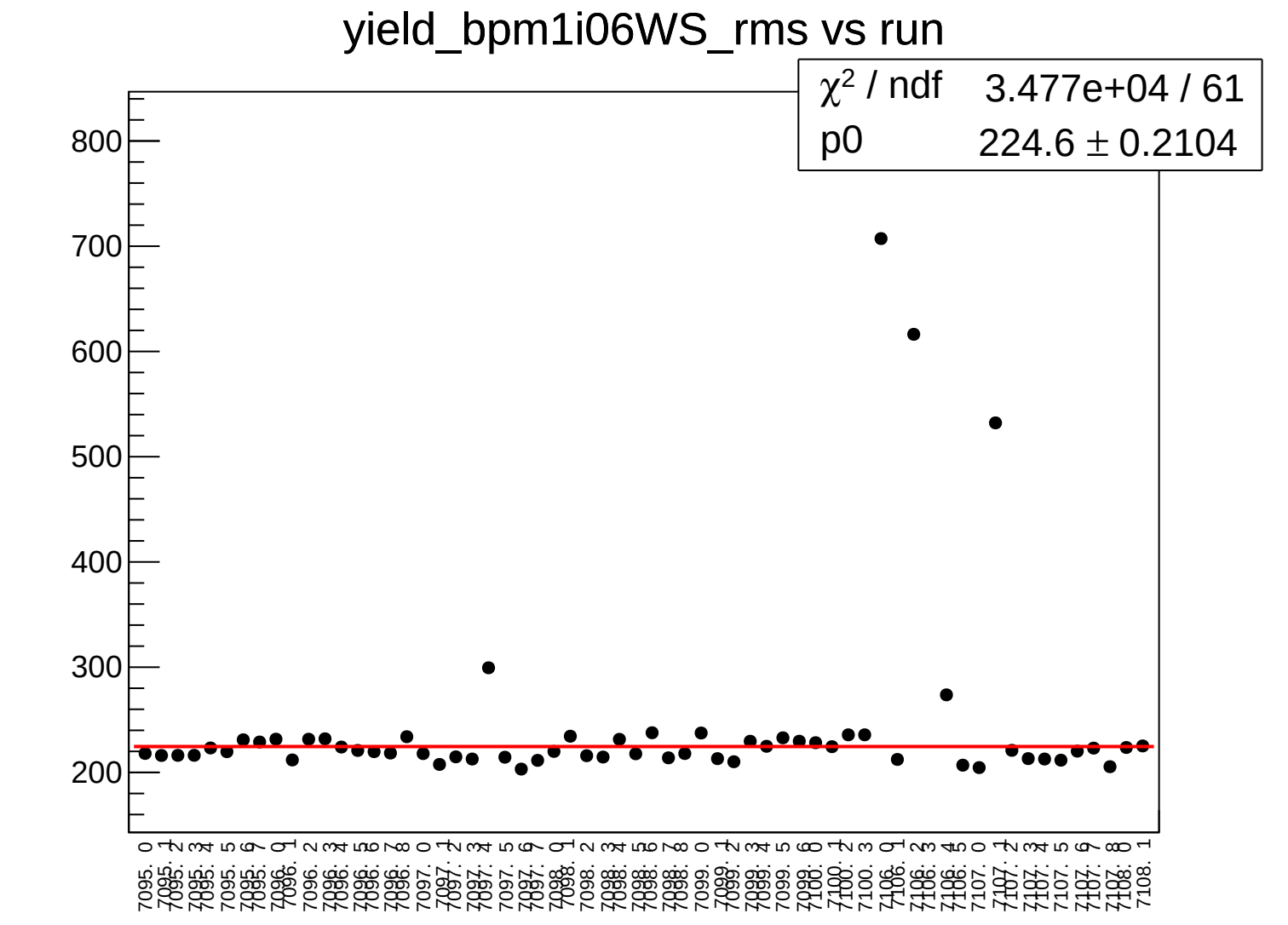

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.664e+06 / 61
p0 1.485e+05 ± 0.3182
149
148.5
148
147.5
147
pull
Entries 62
Mean 870.1
Std Dev 835.6
200
0
−200
−400
−600
−800

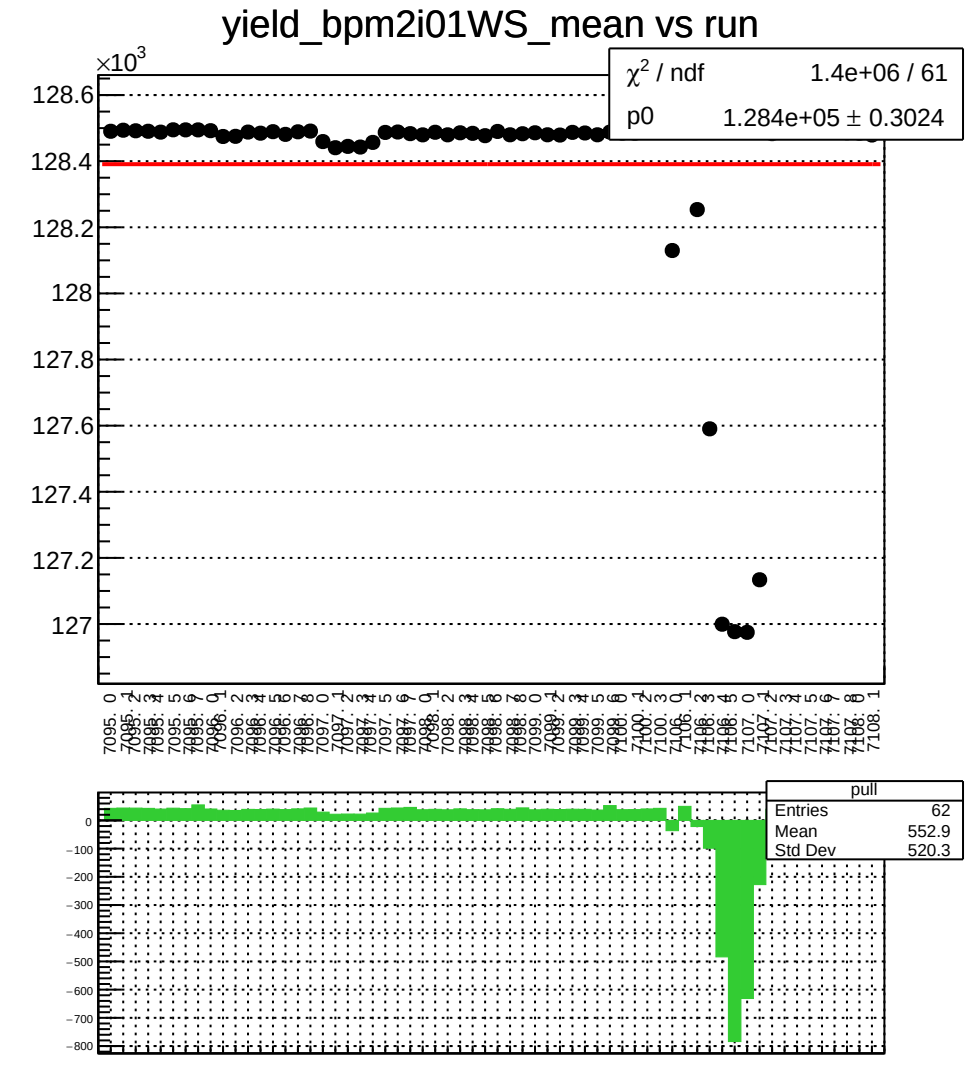

pull1D
Entries 62
Mean −1.427
Std Dev 2.992
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

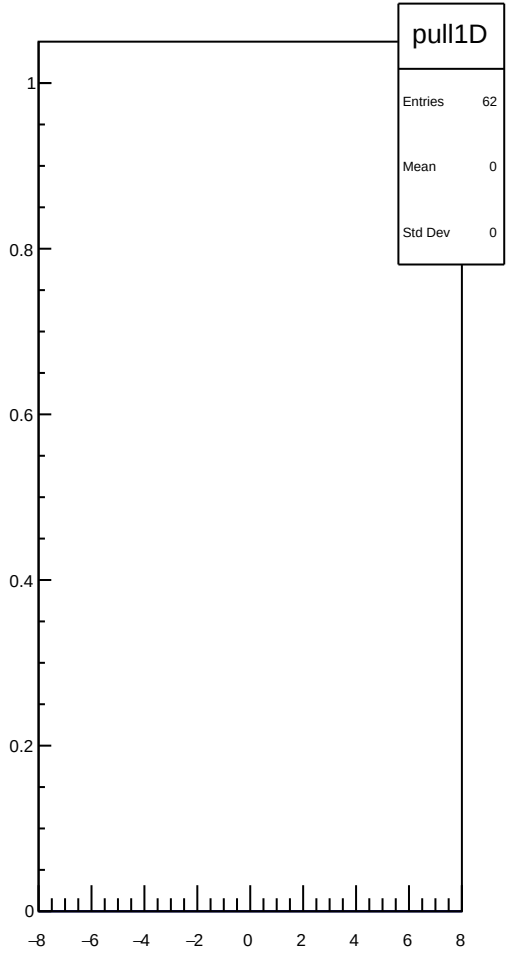

yield_bpm1i04WS_rms vs run
χ² / ndf 3.16e+04 / 61
p0 240.5 ± 0.225
800
700
600
500
400
300
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

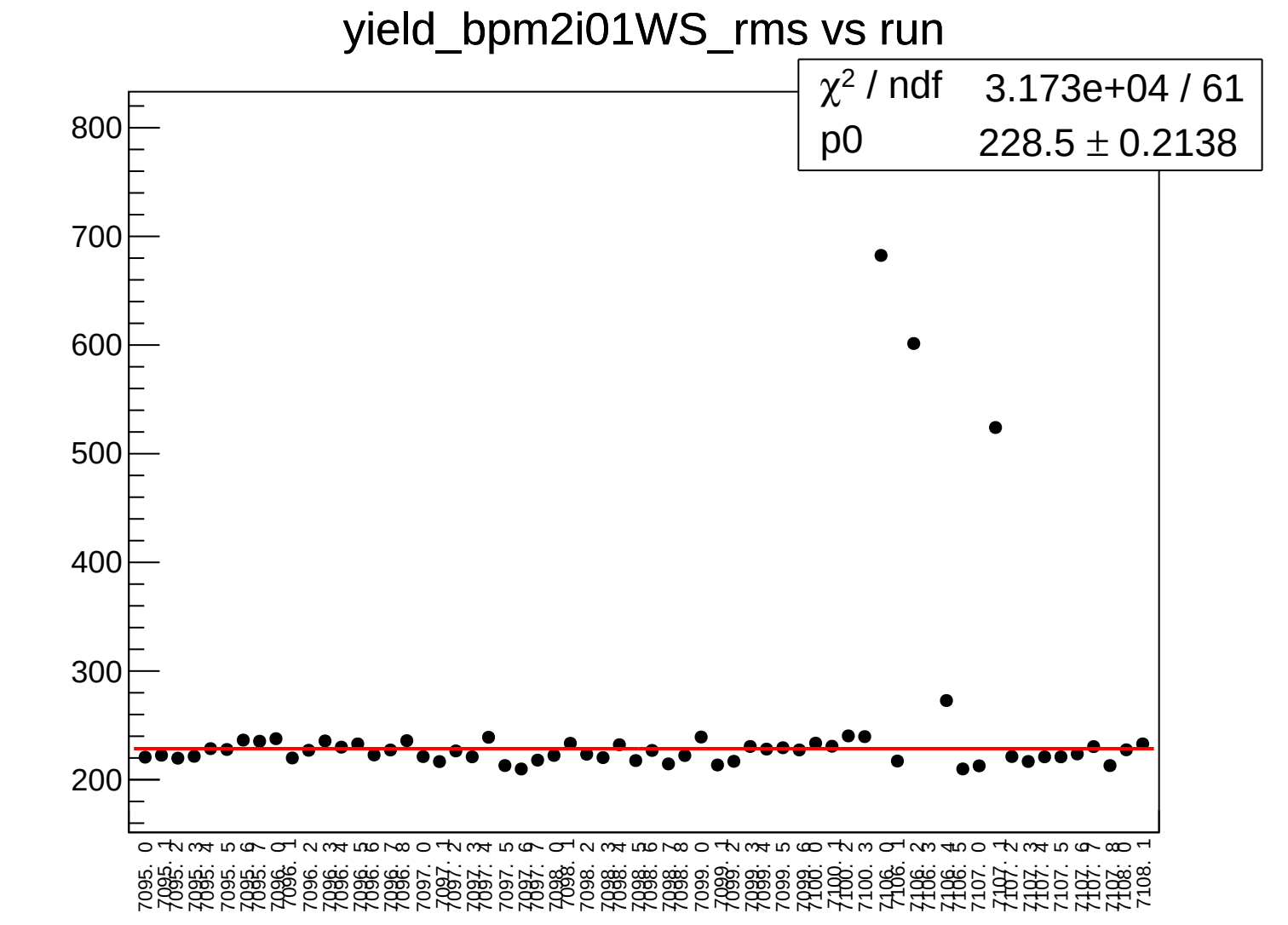

yield_bpm1i06WS_mean vs run
×10^3
χ^2 / ndf 1.741e+06 / 61
p0 1.42e+05 ± 0.2975
142.4
142.2
142
141.8
141.6
141.4
141.2
141
140.8
140.6
140.4
pull
Entries 62
Mean 637.1
Std Dev 603.6
0
−200
−400
−600
−800

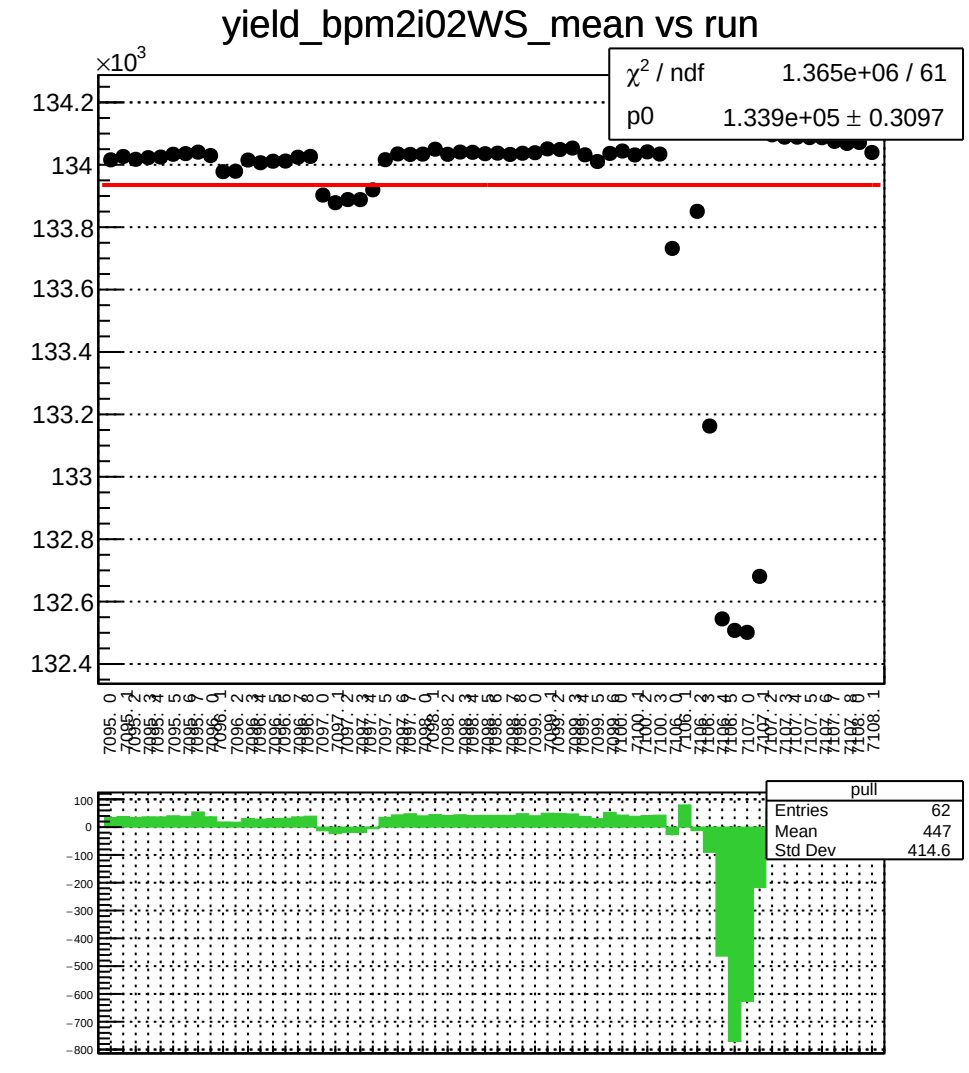

pull1D
Entries 62
Mean −2.296
Std Dev 2.516
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

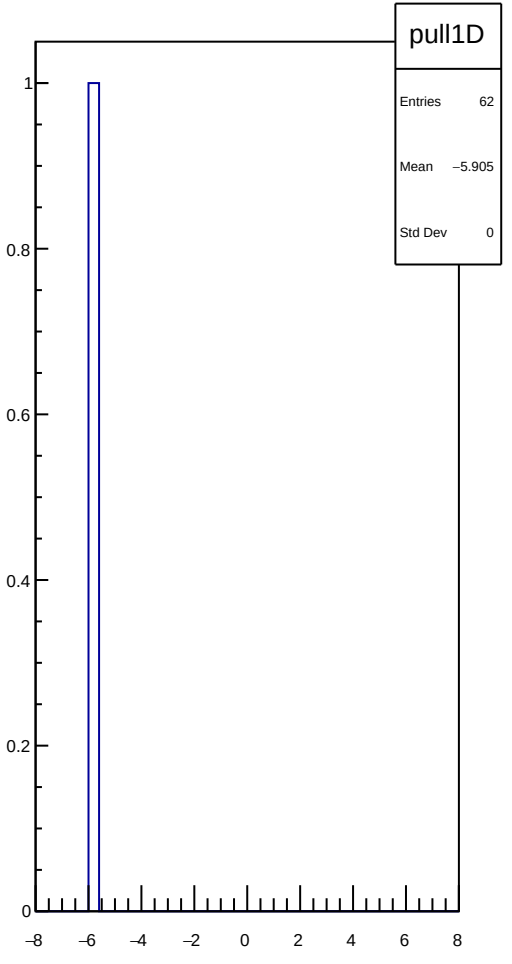

yield_bpm1i06WS_rms vs run
χ² / ndf 3.477e+04 / 61
p0 224.6 ± 0.2104
800
700
600
500
400
300
200

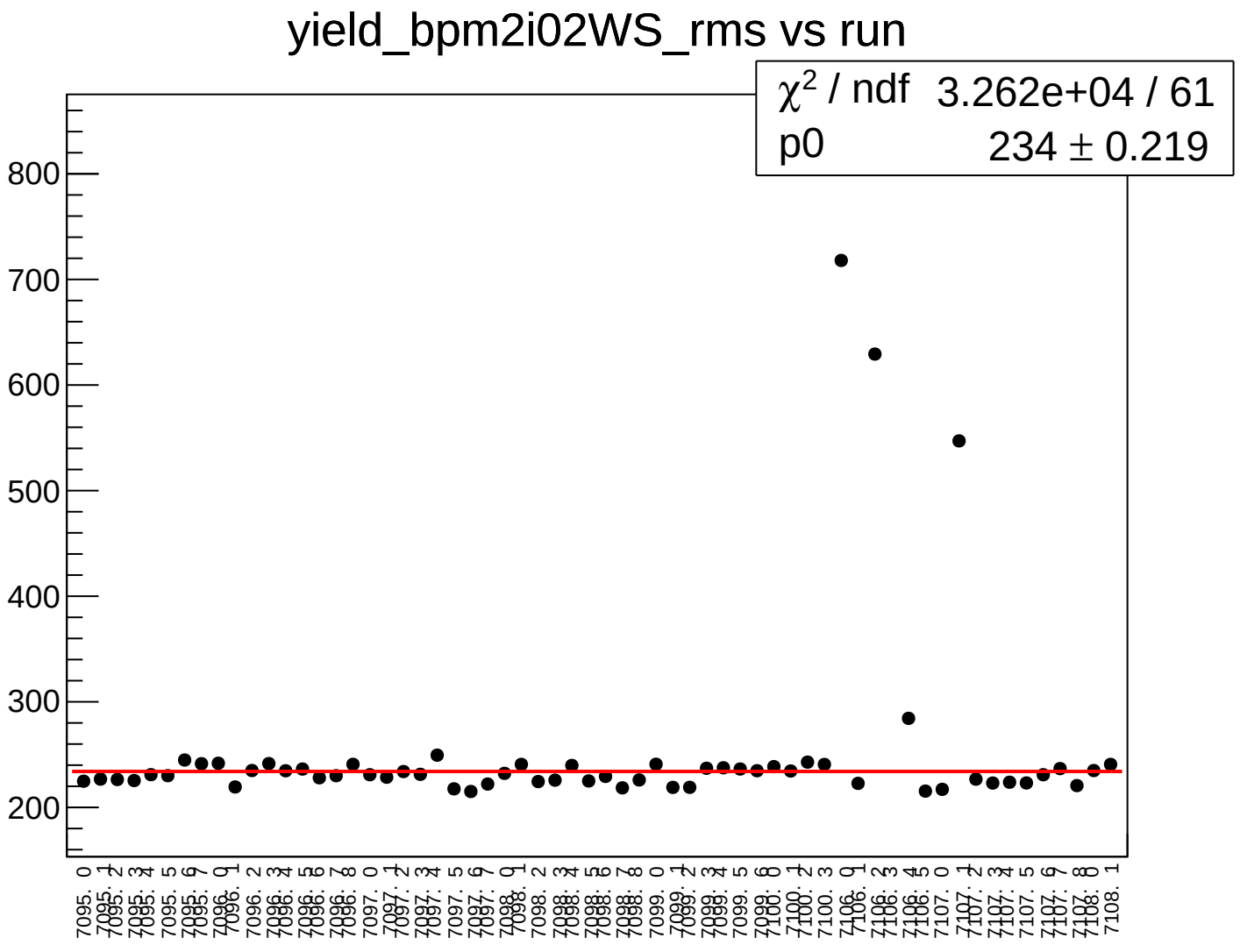

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.4e+06 / 61
p0 1.284e+05 ± 0.3024
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
127
pull
Entries 62
Mean 552.9
Std Dev 520.3
0
−100
−200
−300
−400
−500
−600
−700
−800

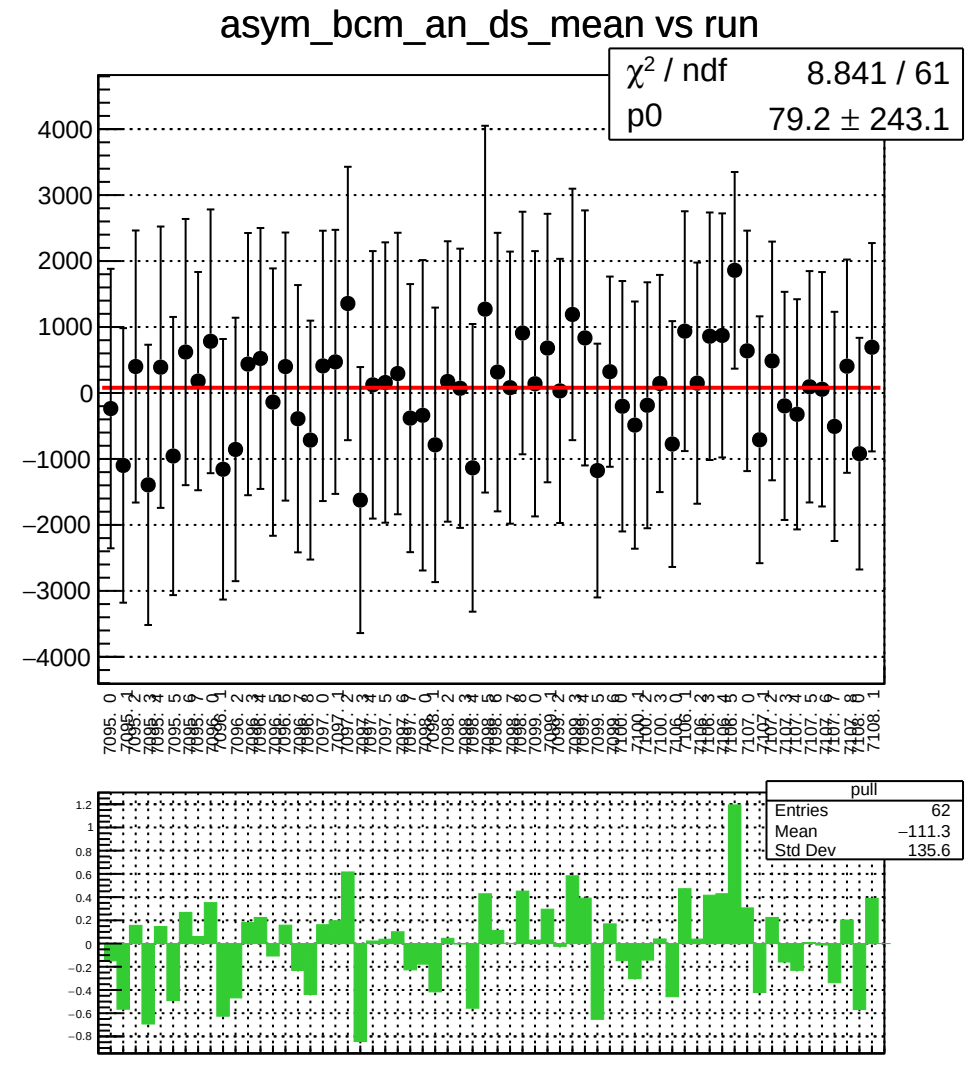

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

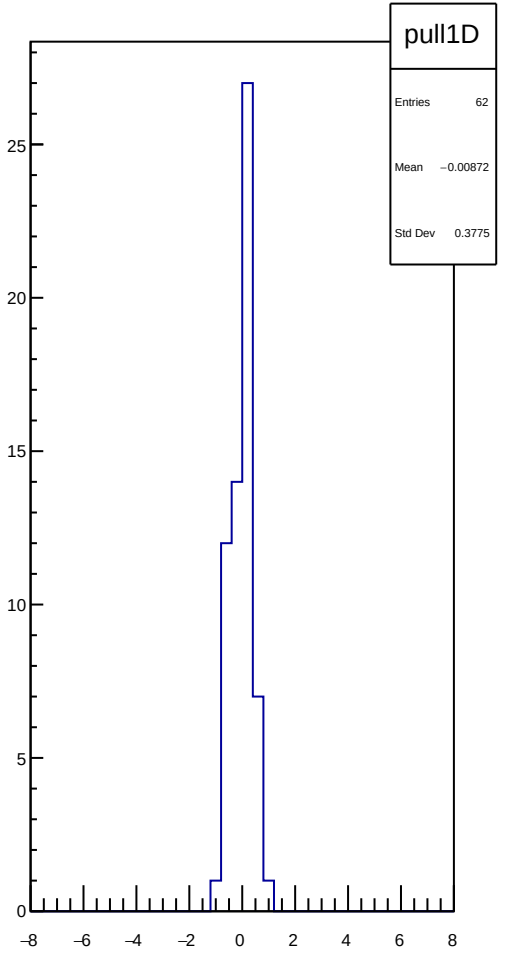

yield_bpm2i01WS_rms vs run
χ^2 / ndf 3.173e+04 / 61
p0 228.5 ± 0.2138
800
700
600
500
400
300
200

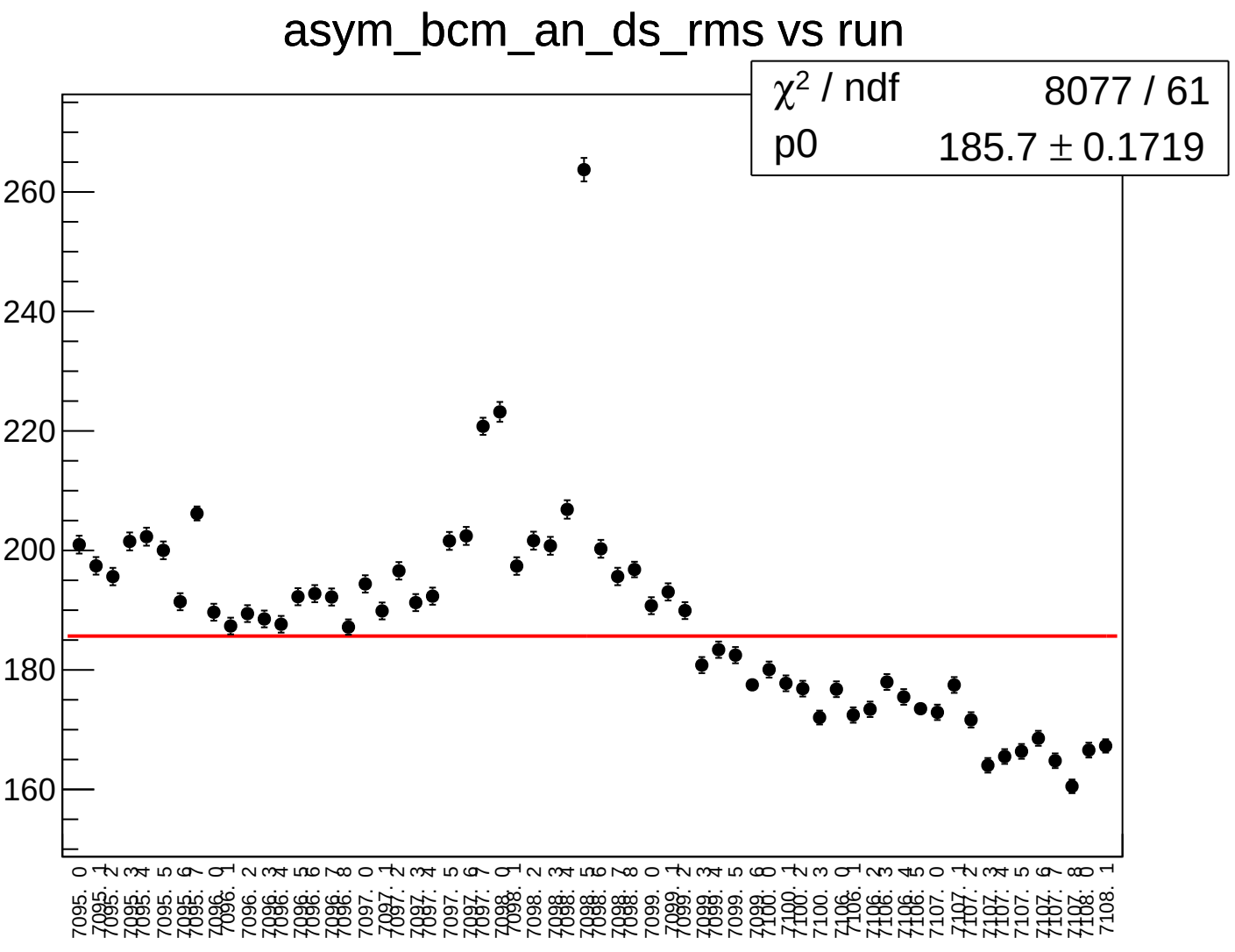

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.365e+06 / 61
p0 1.339e+05 ± 0.3097
134.2
134
133.8
133.6
133.4
133.2
133
132.8
132.6
132.4
pull
Entries 62
Mean 447
Std Dev 414.6
100
0
−100
−200
−300
−400
−500
−600
−700
−800

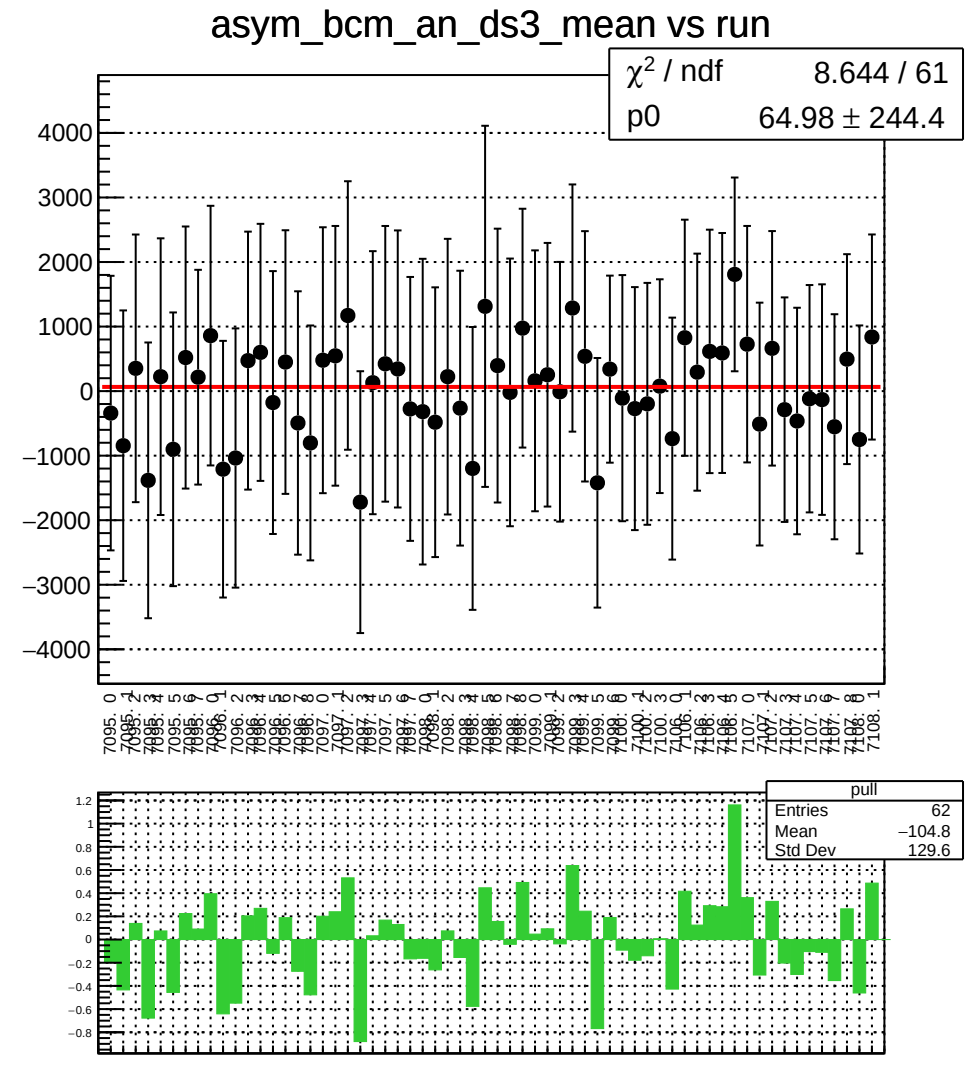

pull1D
Entries 62
Mean −5.905
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

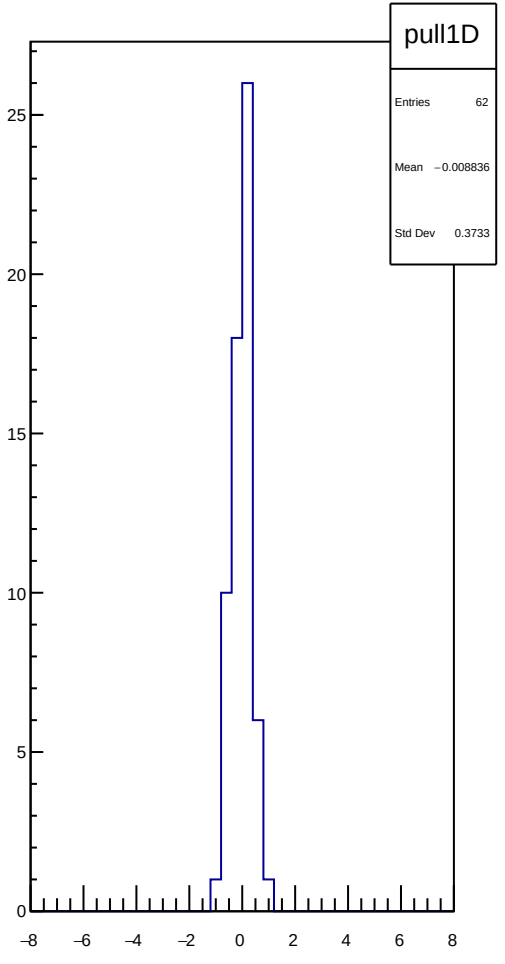

yield_bpm2i02WS_rms vs run
χ^2 / ndf 3.262e+04 / 61
p0 234 ± 0.219
800
700
600
500
400
300
200

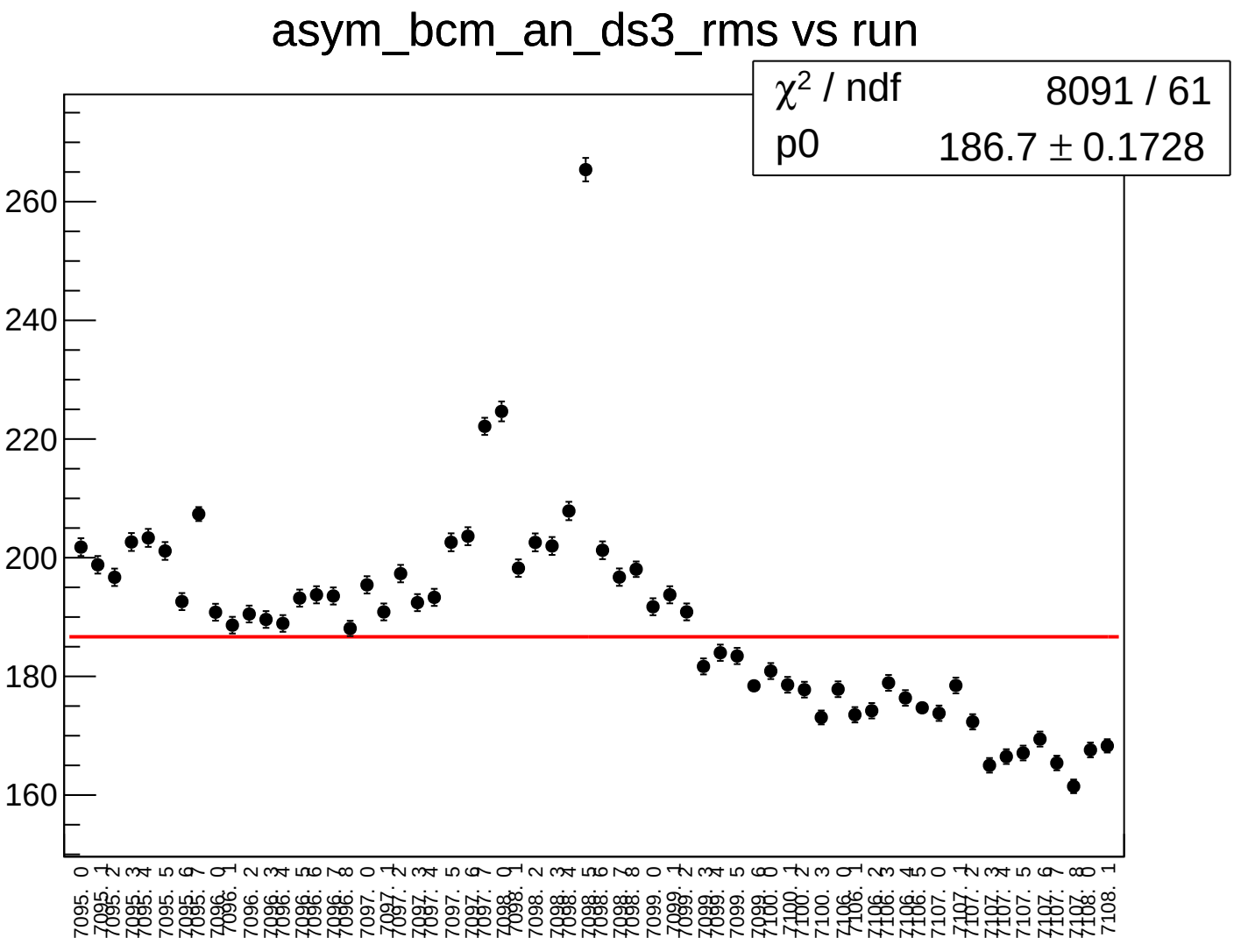

asym_bcm_an_ds_mean vs run
χ² / ndf 8.841 / 61
p0 79.2 ± 243.1
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 62
Mean −111.3
Std Dev 135.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

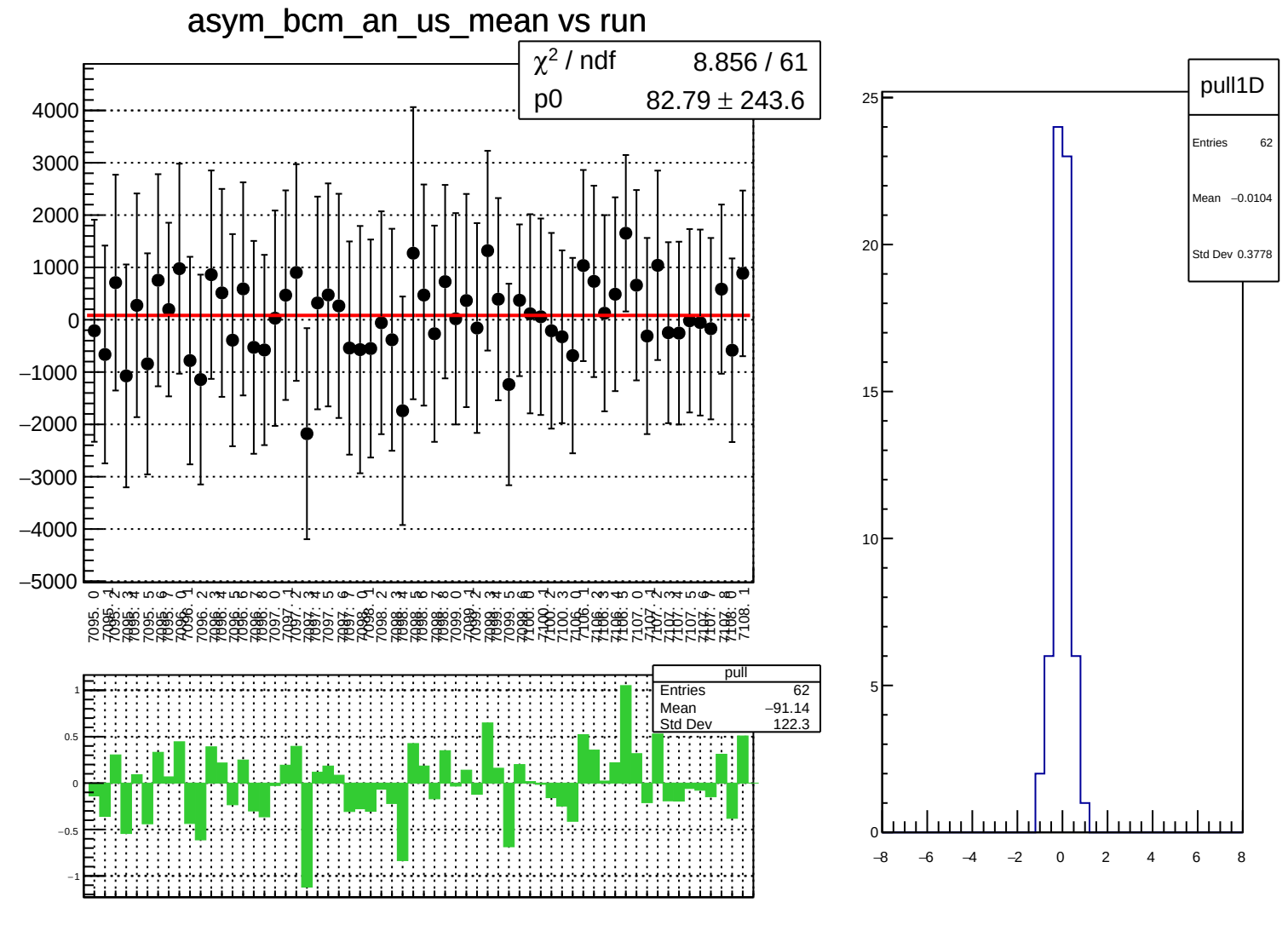

pull1D
Entries 62
Mean −0.00872
Std Dev 0.3775
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

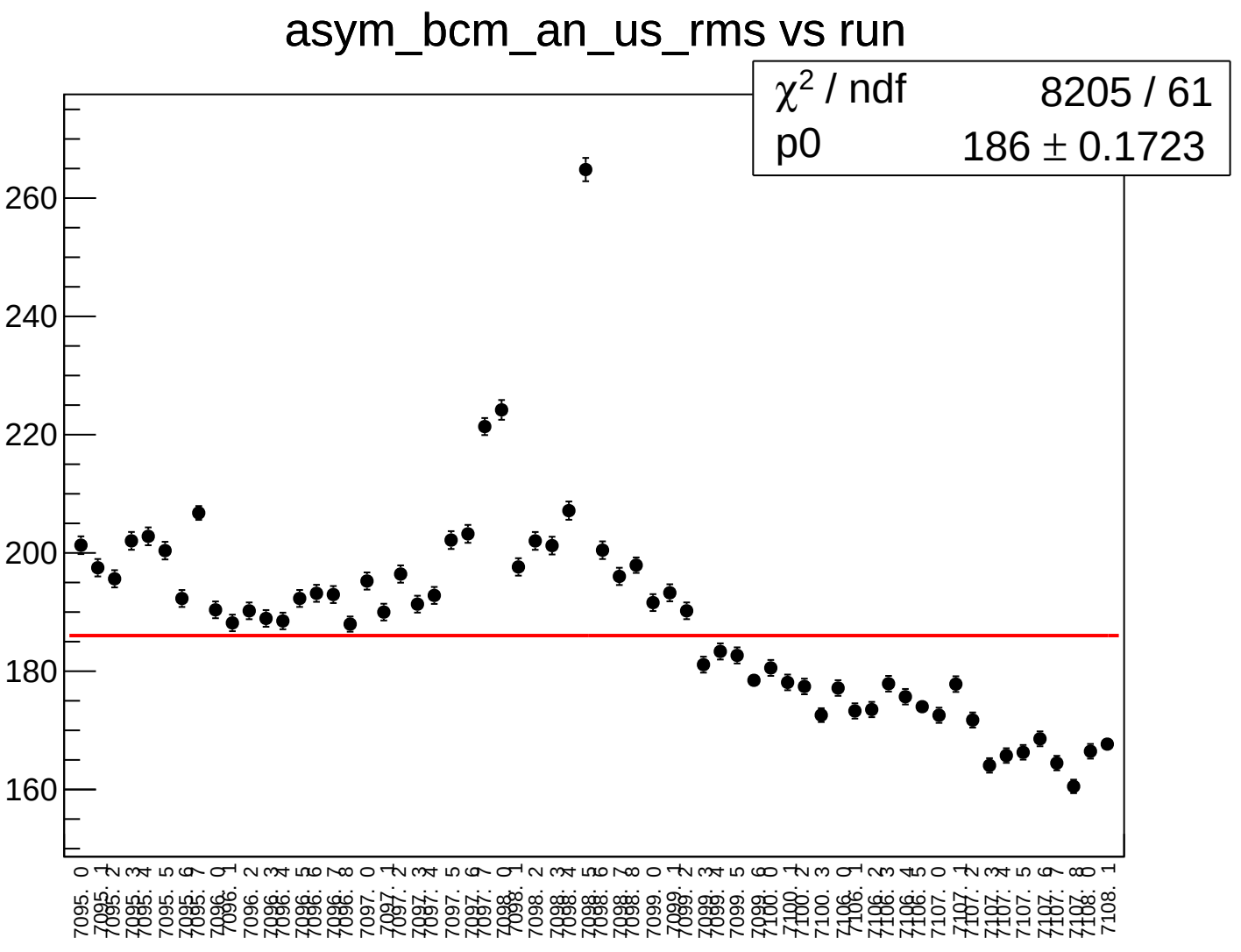

asym_bcm_an_ds_rms vs run
χ^2 / ndf 8077 / 61
p0 185.7 ± 0.1719
260
240
220
200
180
160

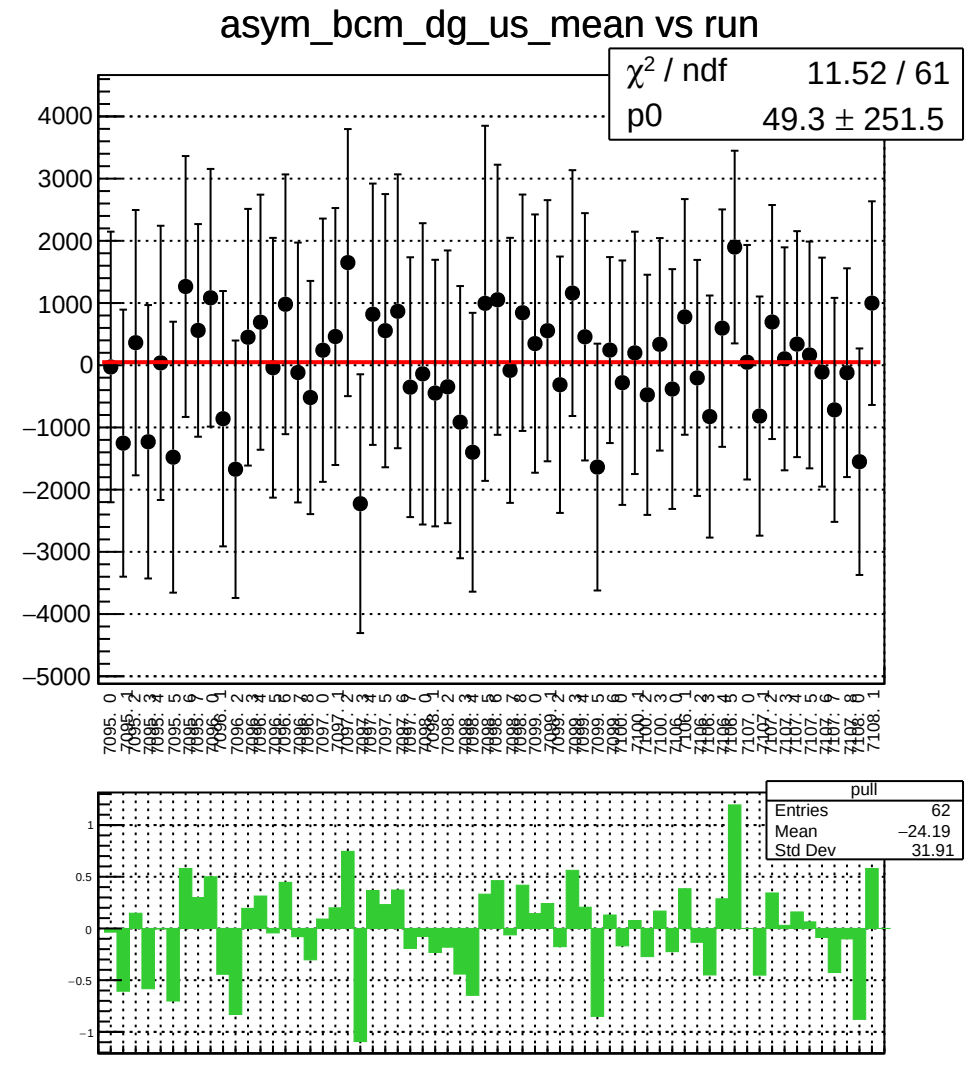

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.644 / 61
p0 64.98 ± 244.4
pull
Entries 62
Mean −104.8
Std Dev 129.6

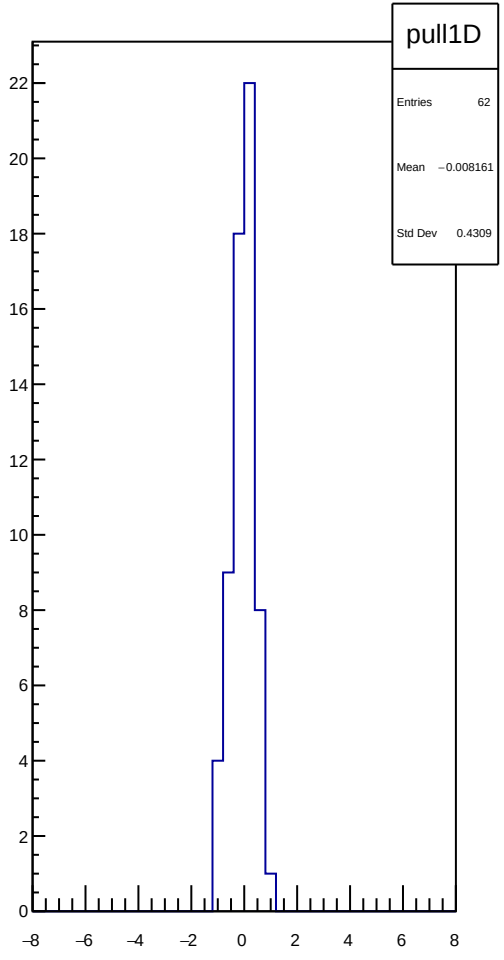

pull1D
Entries 62
Mean −0.008836
Std Dev 0.3733

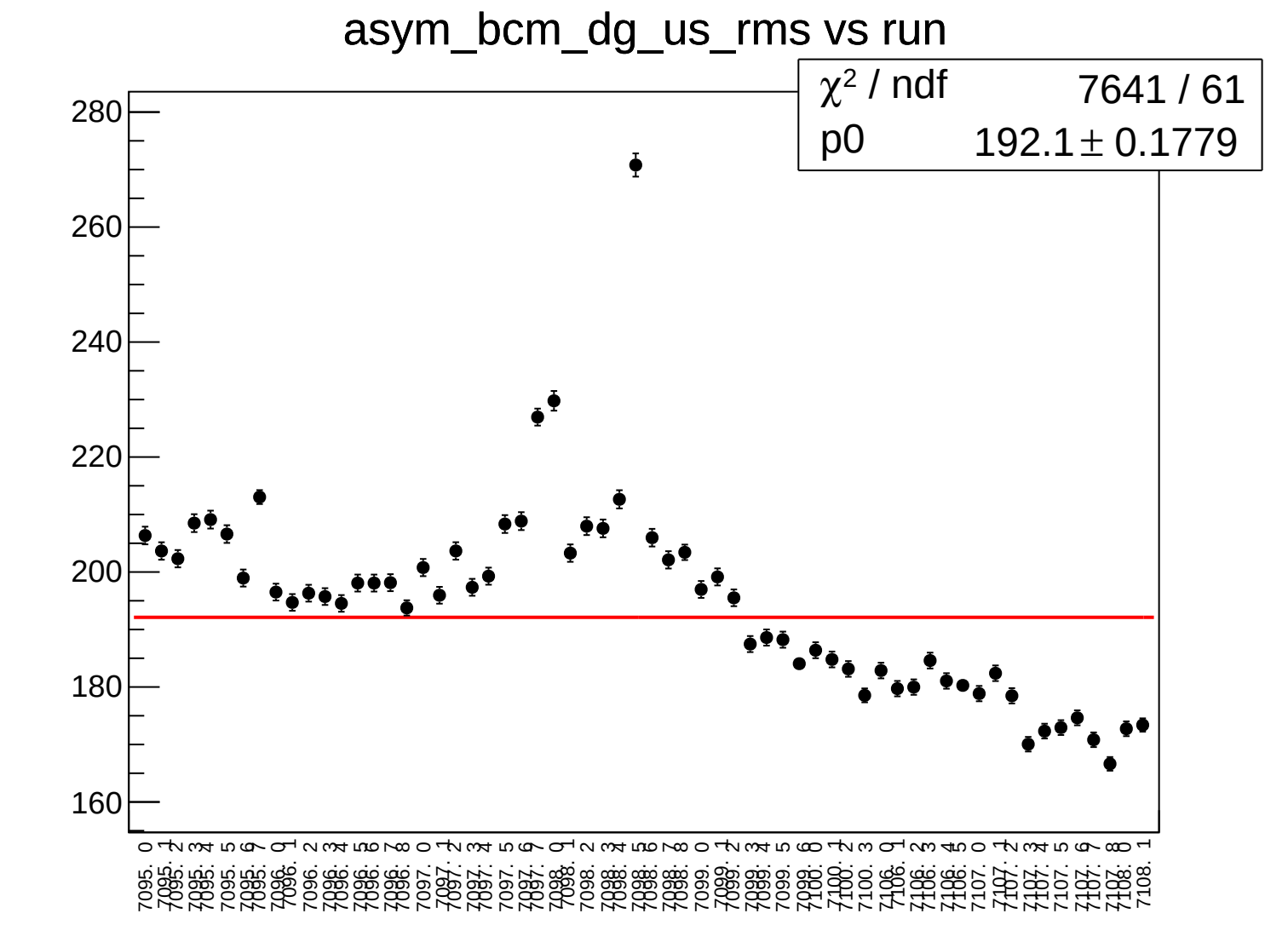

asym_bcm_an_ds3_rms vs run
χ² / ndf 8091 / 61
p0 186.7 ± 0.1728
260
240
220
200
180
160

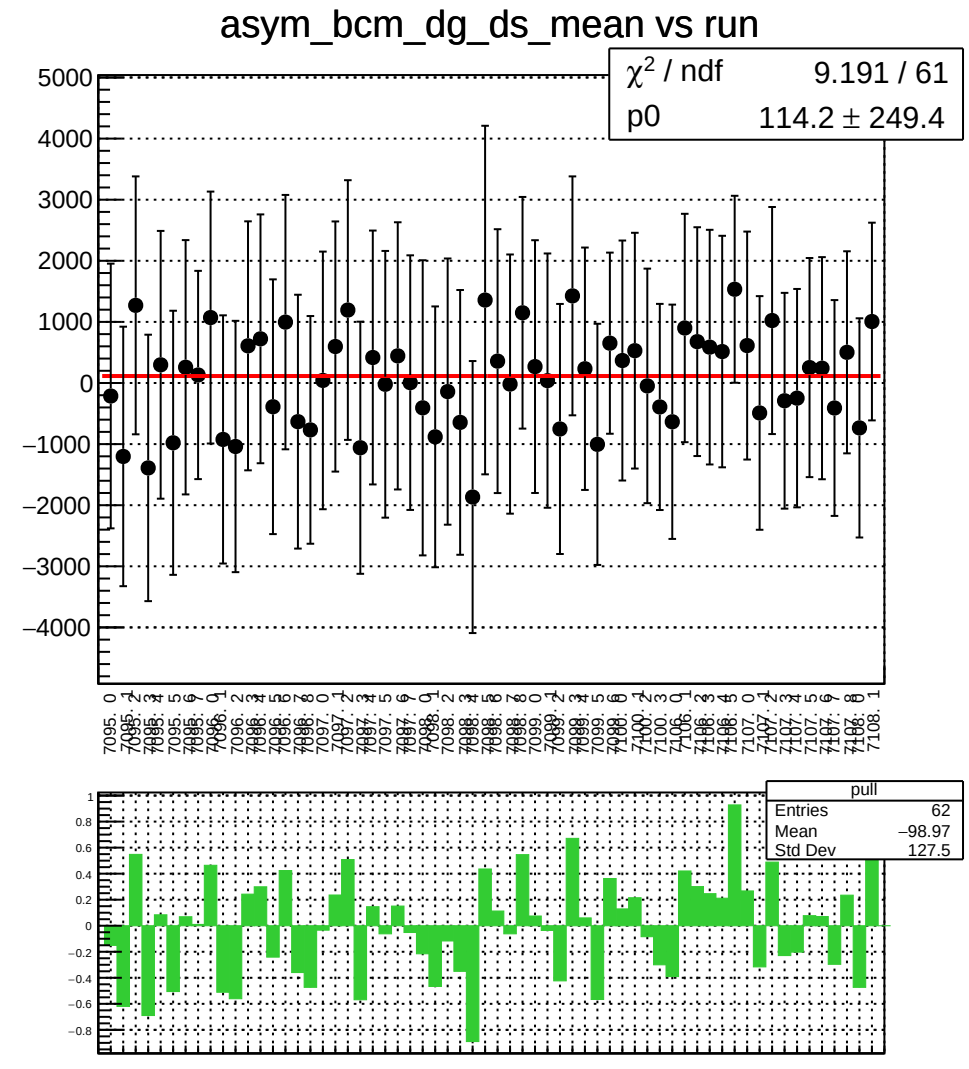

asym_bcm_an_us_mean vs run
χ² / ndf 8.856 / 61
p0 82.79 ± 243.6
pull
Entries 62
Mean −91.14
Std Dev 122.3
pull1D
Entries 62
Mean −0.0104
Std Dev 0.3778

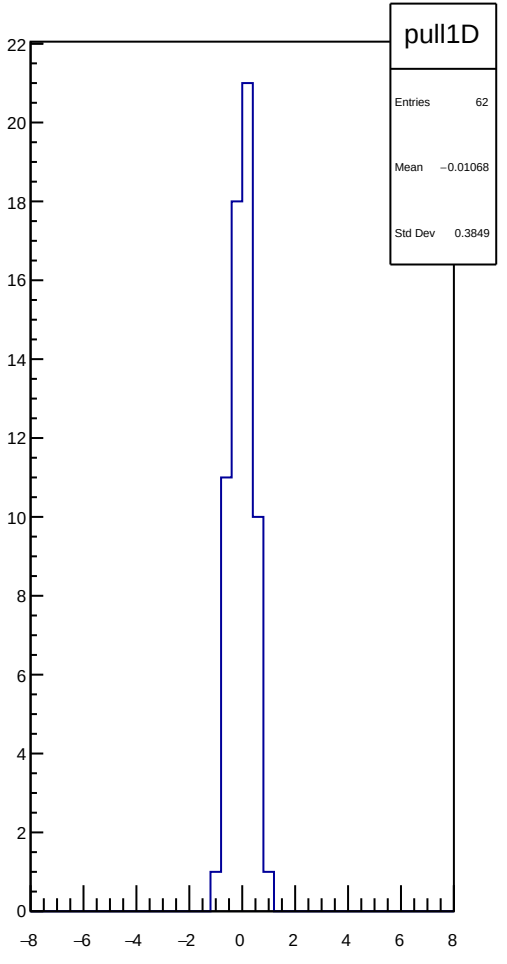

asym_bcm_an_us_rms vs run
χ² / ndf 8205 / 61
p0 186 ± 0.1723
260
240
220
200
180
160

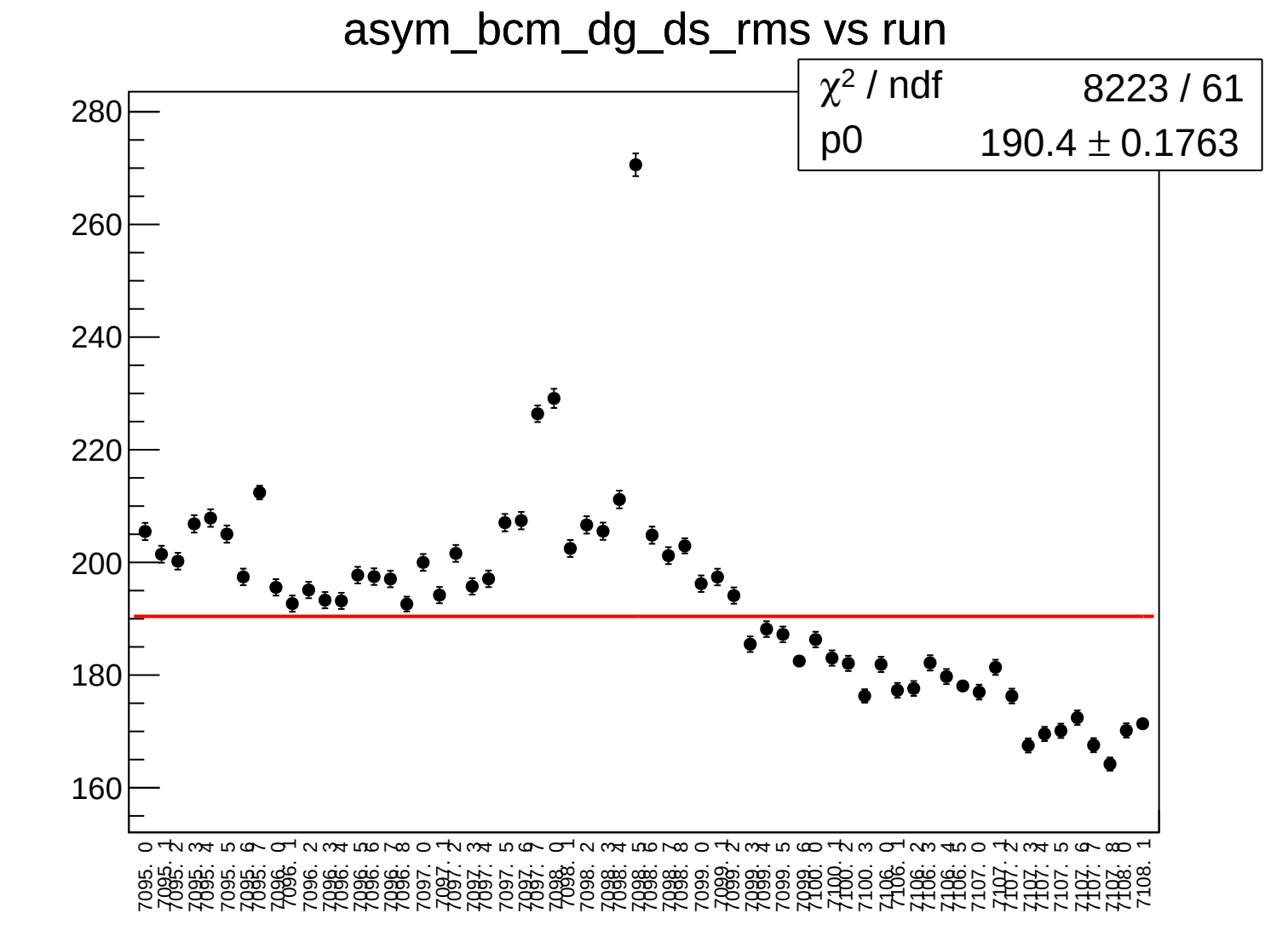

asym_bcm_dg_us_mean vs run
χ² / ndf 11.52 / 61
p0 49.3 ± 251.5
pull
Entries 62
Mean −24.19
Std Dev 31.91

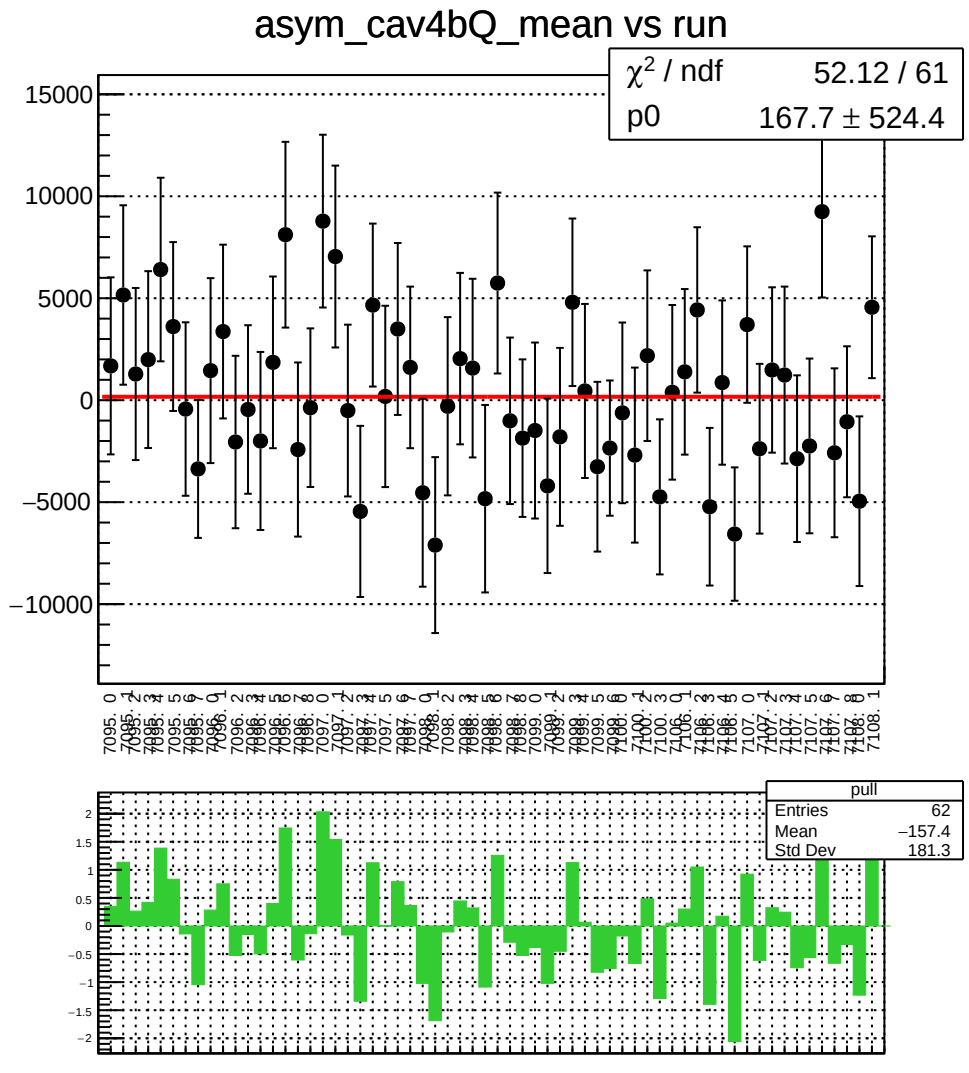

pull1D
Entries 62
Mean −0.008161
Std Dev 0.4309

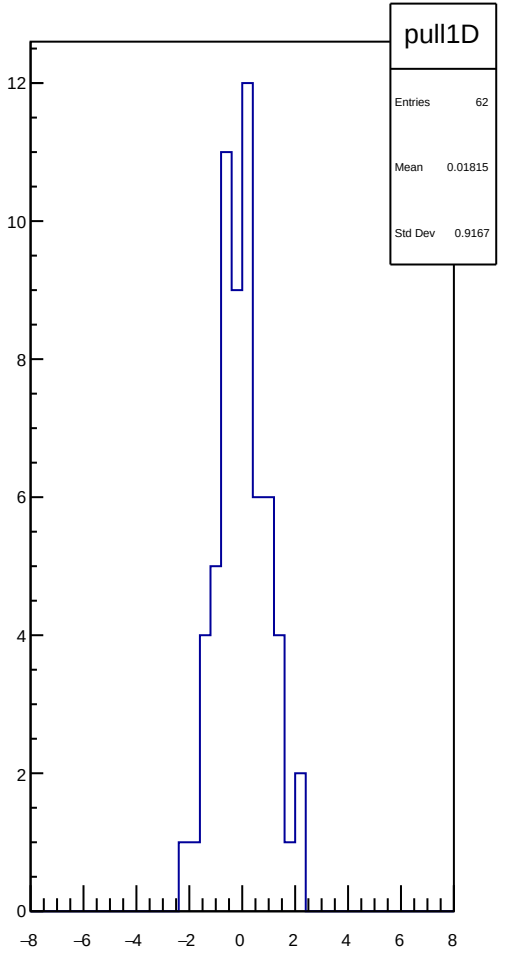

asym_bcm_dg_us_rms vs run
χ² / ndf 7641 / 61
p0 192.1 ± 0.1779
280
260
240
220
200
180
160

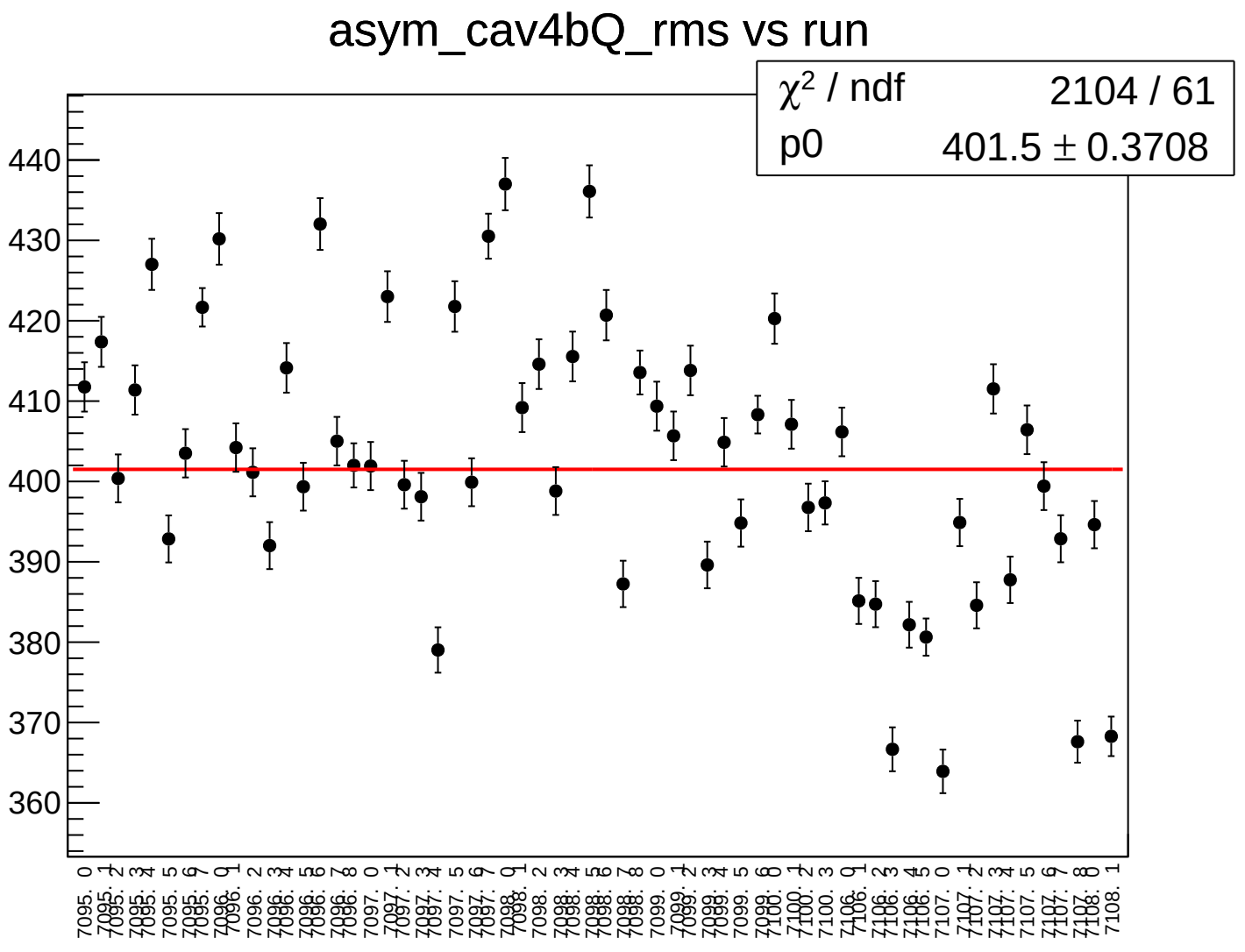

asym_bcm_dg_ds_mean vs run
χ^2 / ndf 9.191 / 61
p0 114.2 ± 249.4
pull
Entries 62
Mean −98.97
Std Dev 127.5

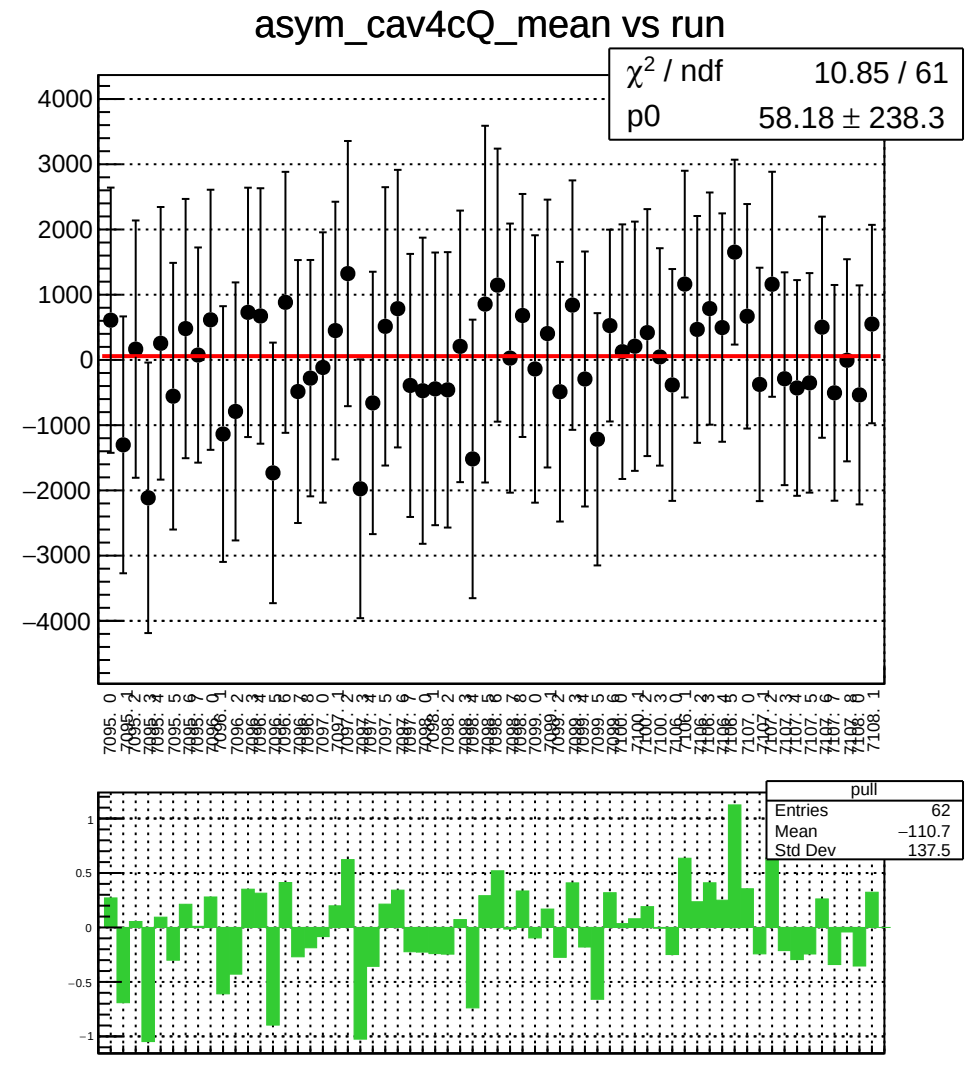

pull1D
Entries 62
Mean −0.01068
Std Dev 0.3849

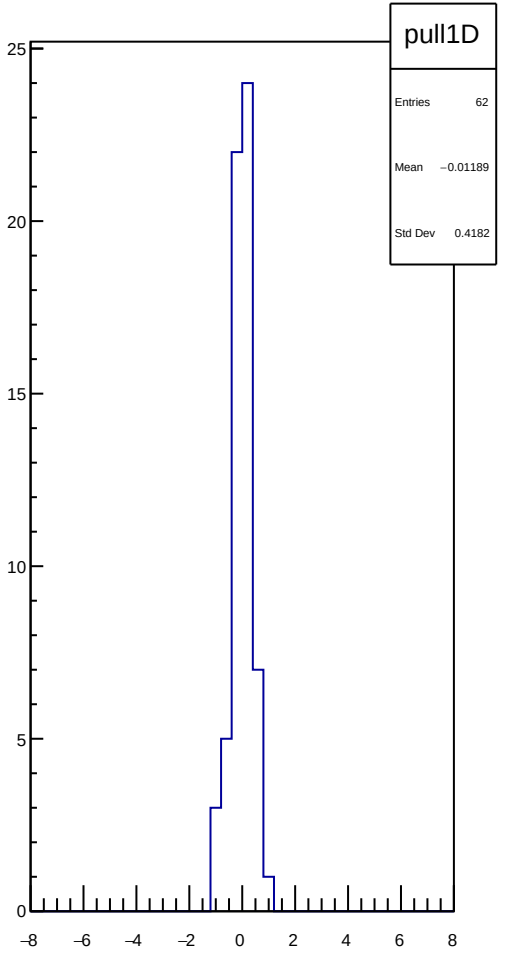

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 8223 / 61
p0 190.4 ± 0.1763
280
260
240
220
200
180
160

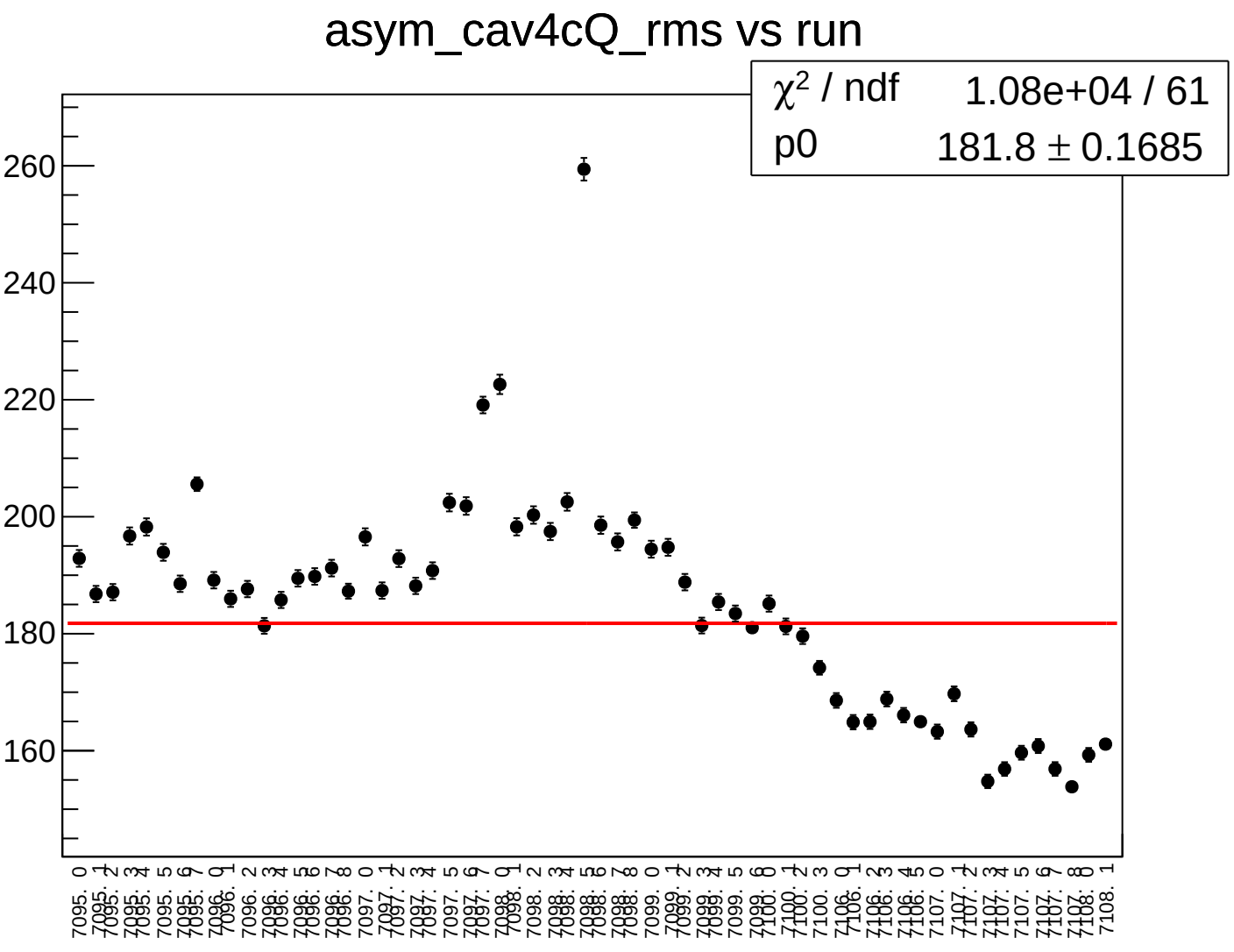

asym_cav4bQ_mean vs run
χ² / ndf 52.12 / 61
p0 167.7 ± 524.4
15000
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −157.4
Std Dev 181.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

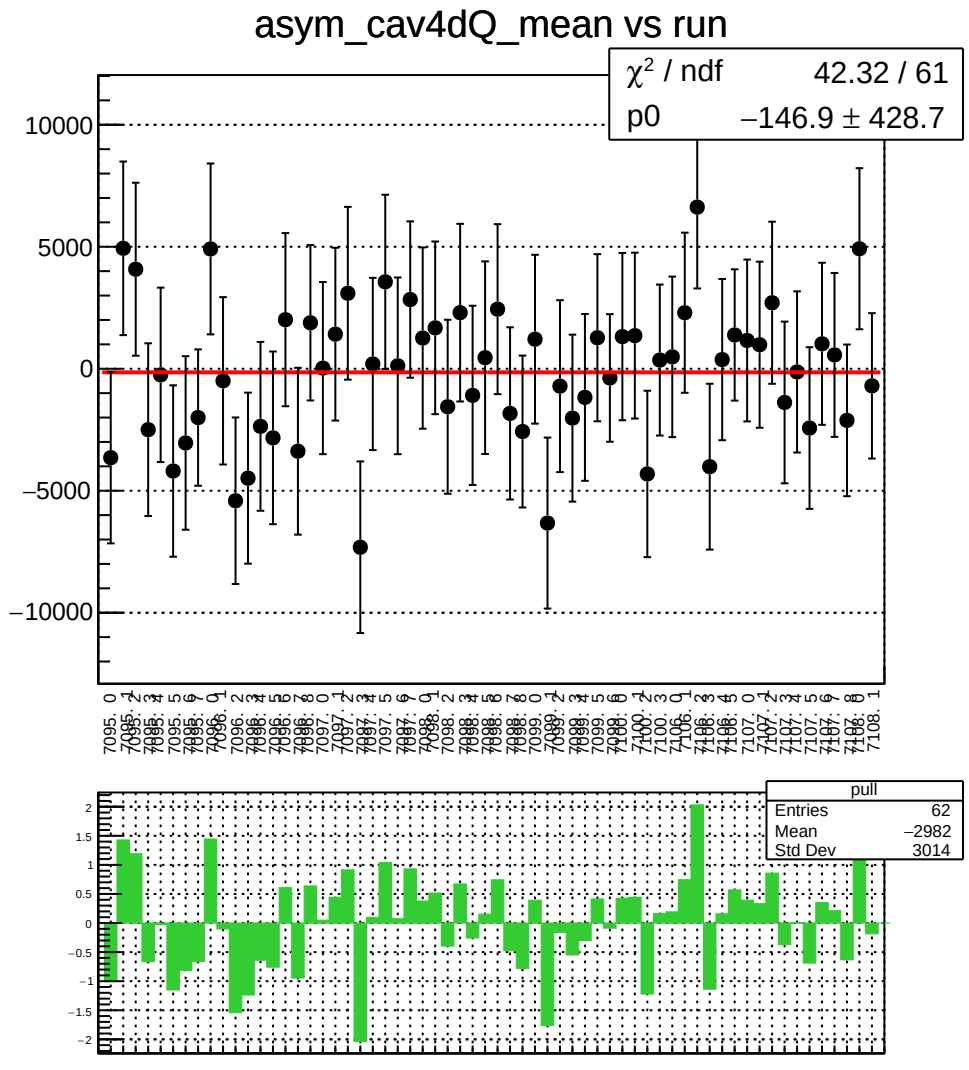

pull1D
Entries 62
Mean 0.01815
Std Dev 0.9167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

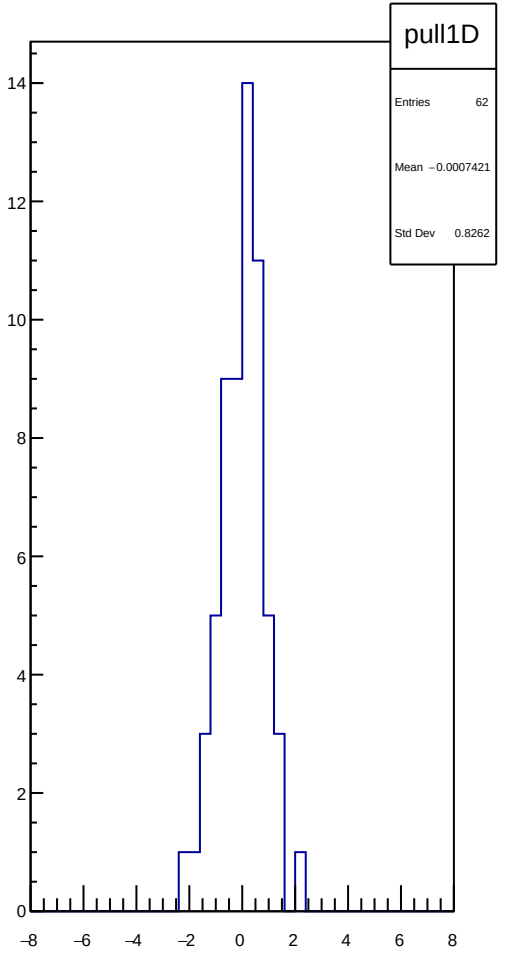

asym_cav4bQ_rms vs run
χ² / ndf 2104 / 61
p0 401.5 ± 0.3708
440
430
420
410
400
390
380
370
360
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 8
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

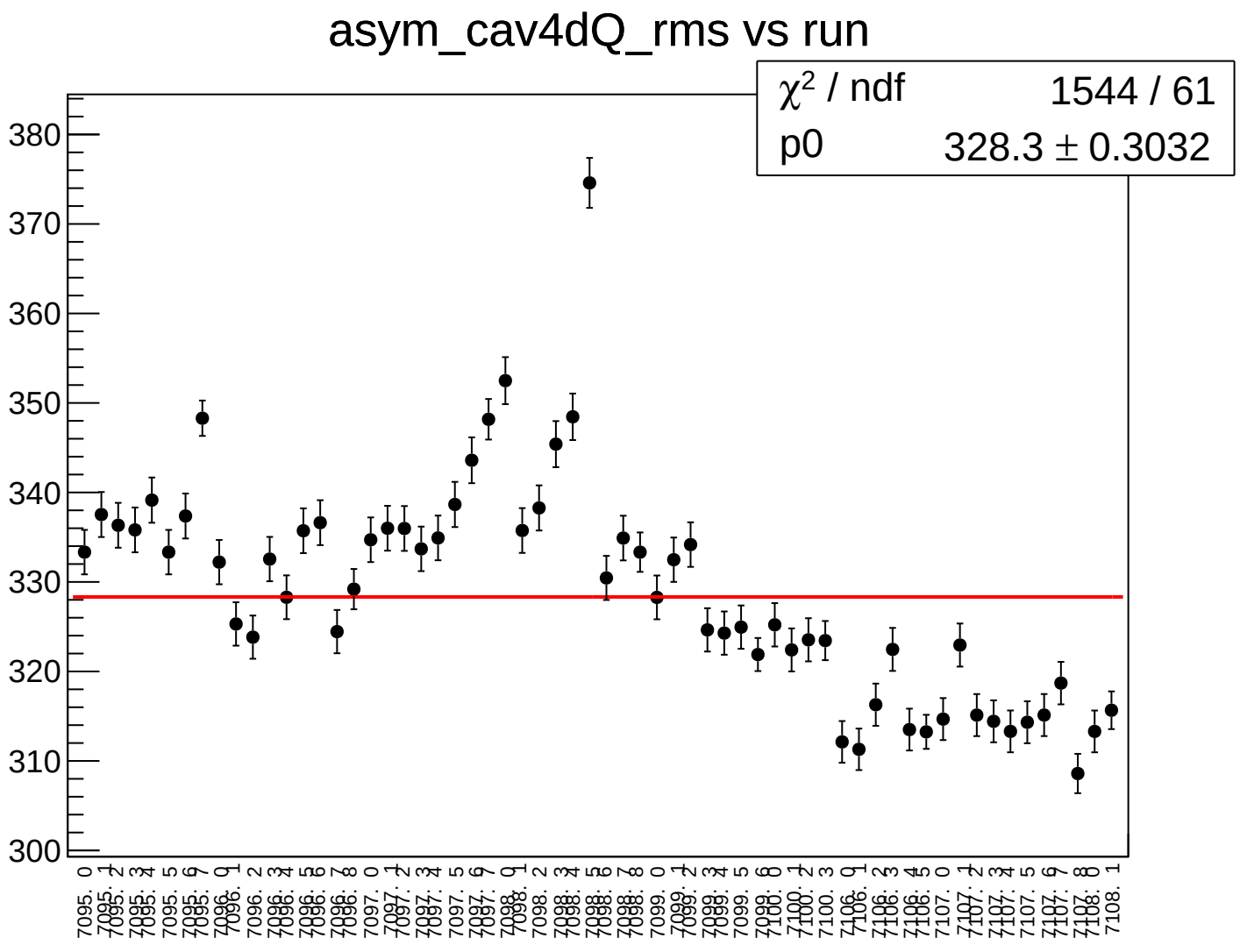

asym_cav4cQ_mean vs run
χ² / ndf 10.85 / 61
p0 58.18 ± 238.3
pull
Entries 62
Mean −110.7
Std Dev 137.5

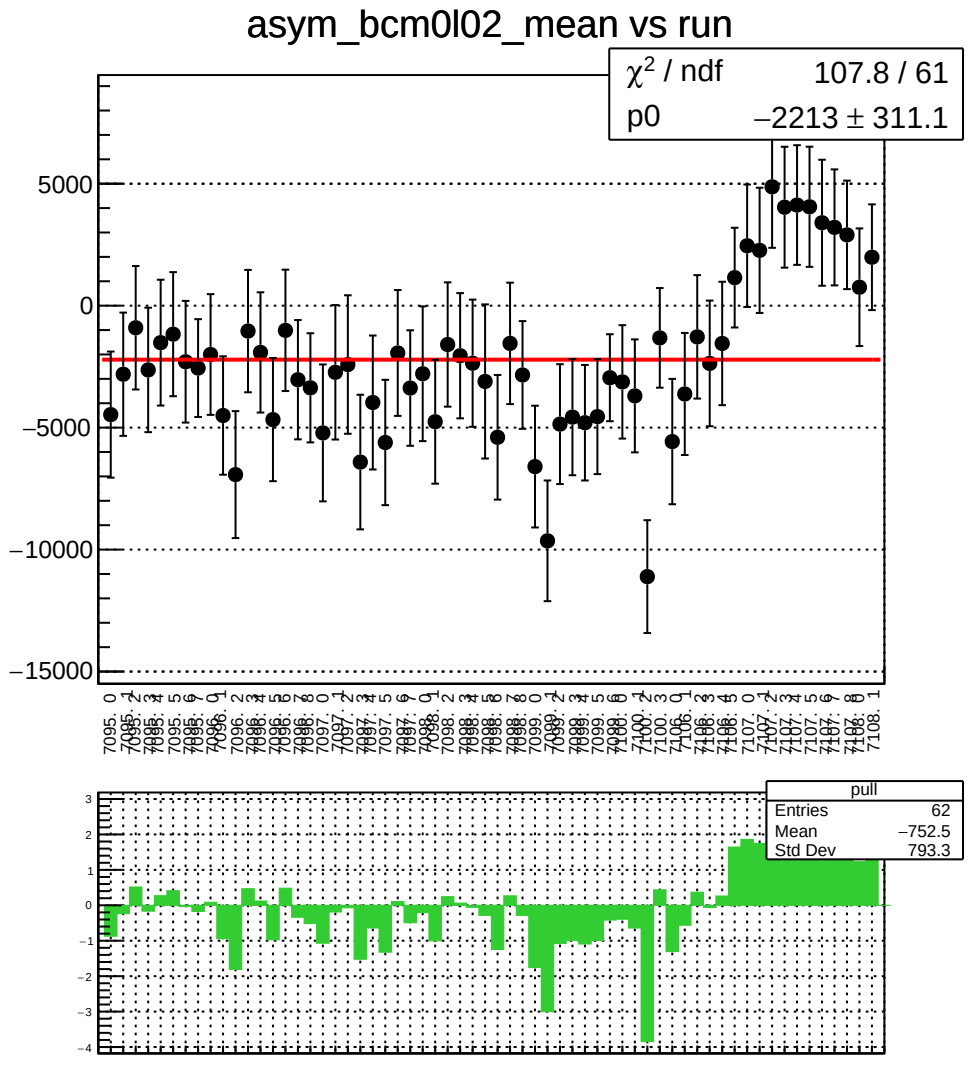

pull1D
Entries 62
Mean −0.01189
Std Dev 0.4182

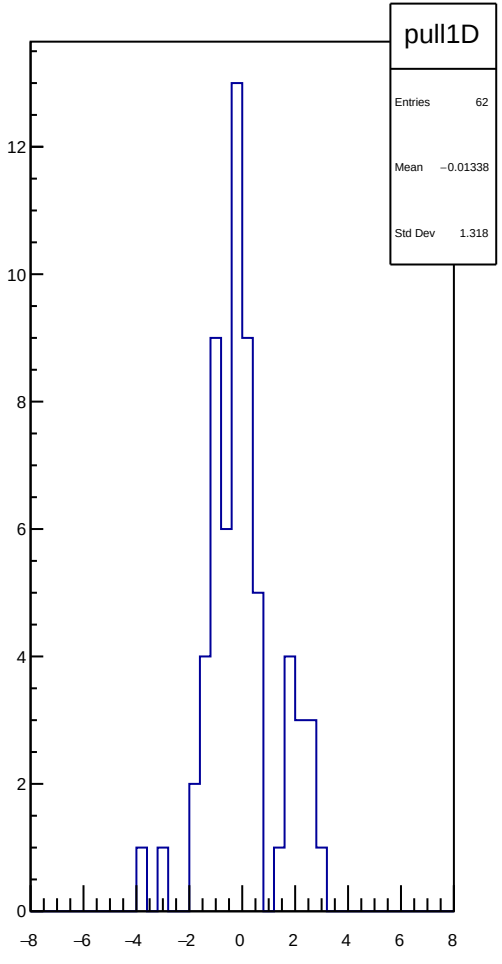

asym_cav4cQ_rms vs run
χ² / ndf 1.08e+04 / 61
p0 181.8 ± 0.1685
260
240
220
200
180
160
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

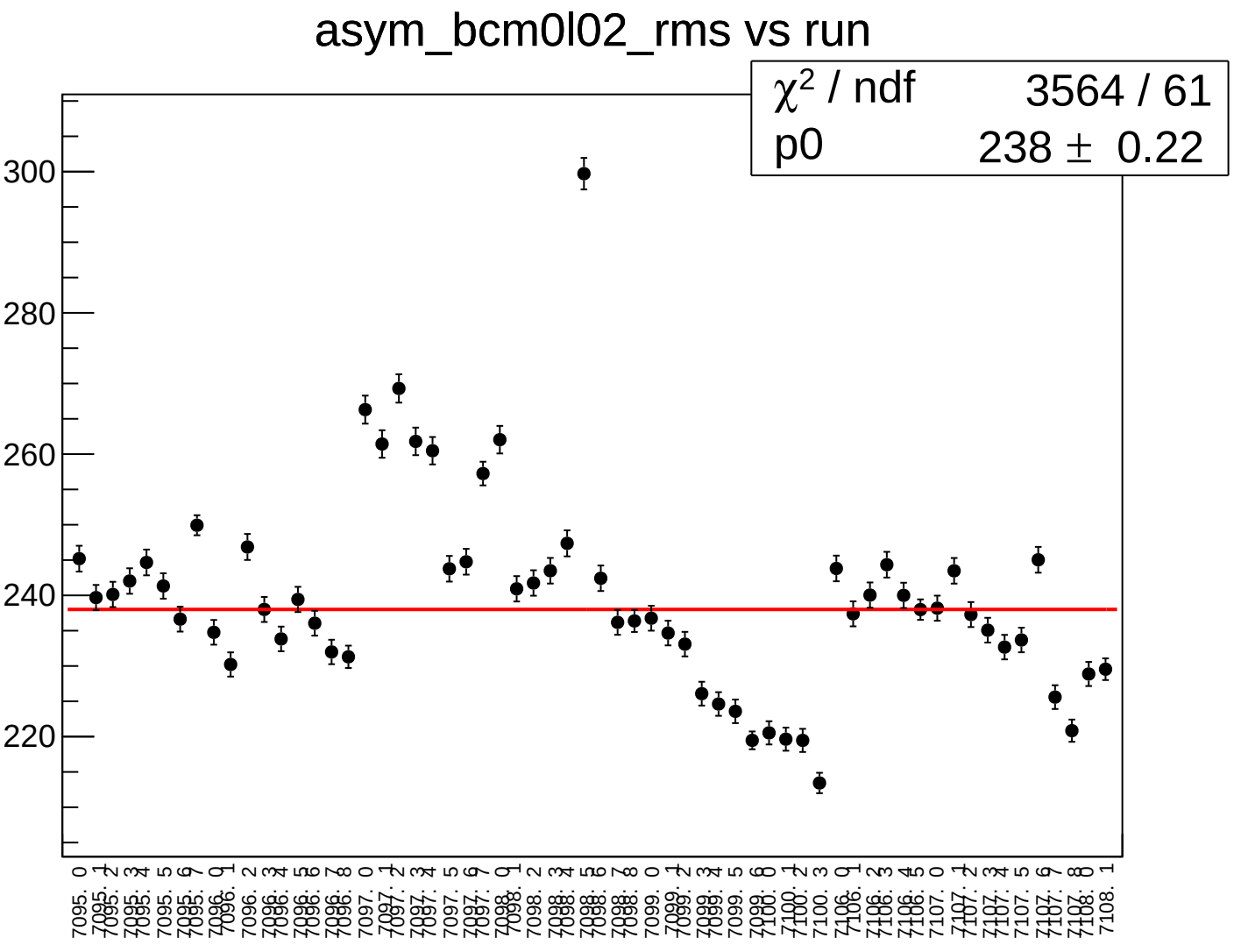

asym_cav4dQ_mean vs run
χ² / ndf 42.32 / 61
p0 −146.9 ± 428.7
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −2982
Std Dev 3014
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

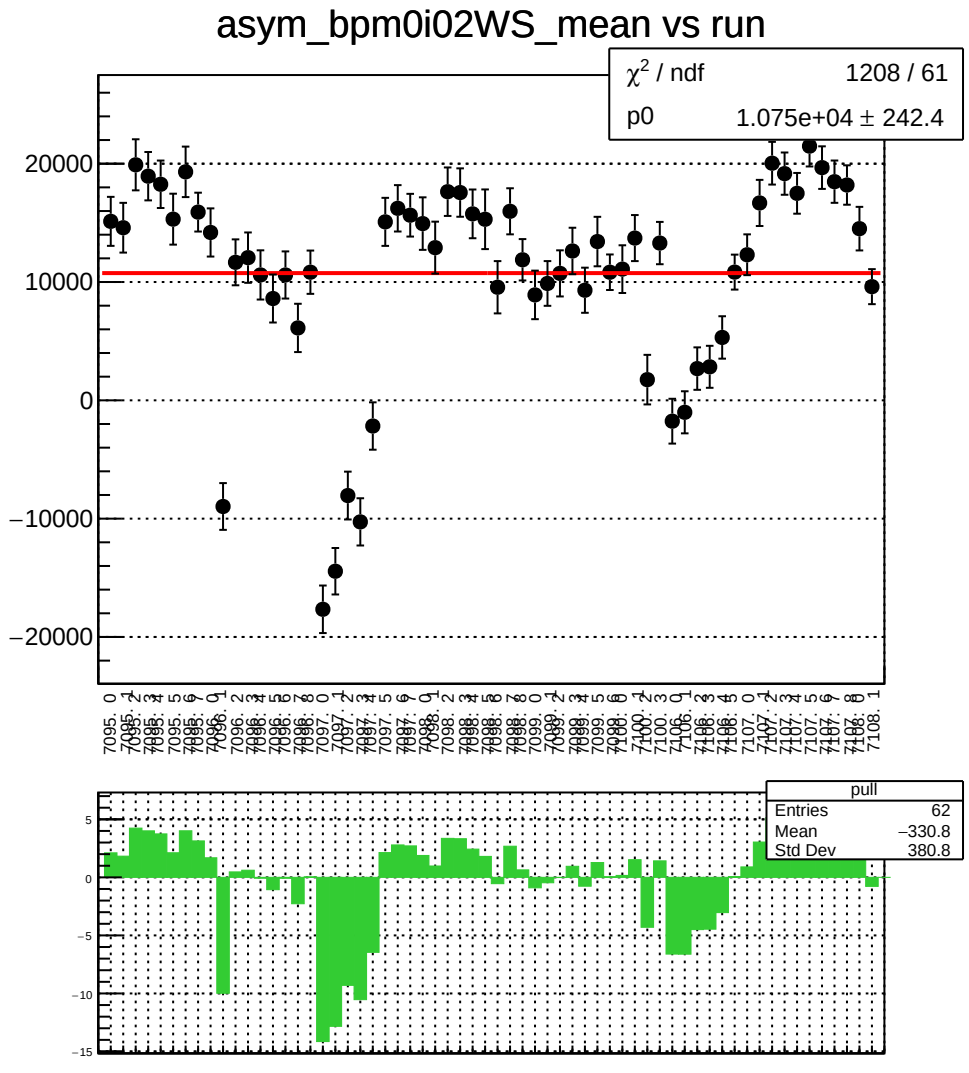

pull1D
Entries 62
Mean −0.0007421
Std Dev 0.8262
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

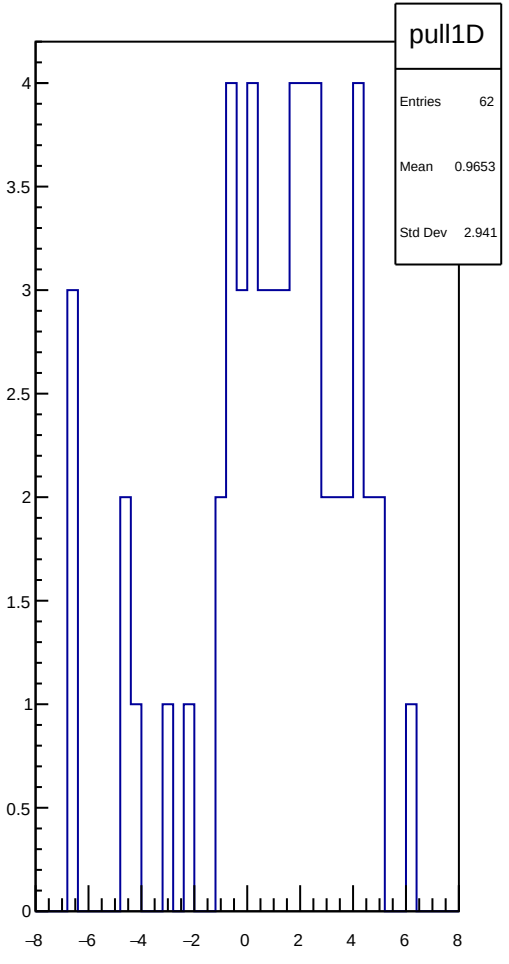

asym_cav4dQ_rms vs run
χ² / ndf 1544 / 61
p0 328.3 ± 0.3032
380
370
360
350
340
330
320
310
300

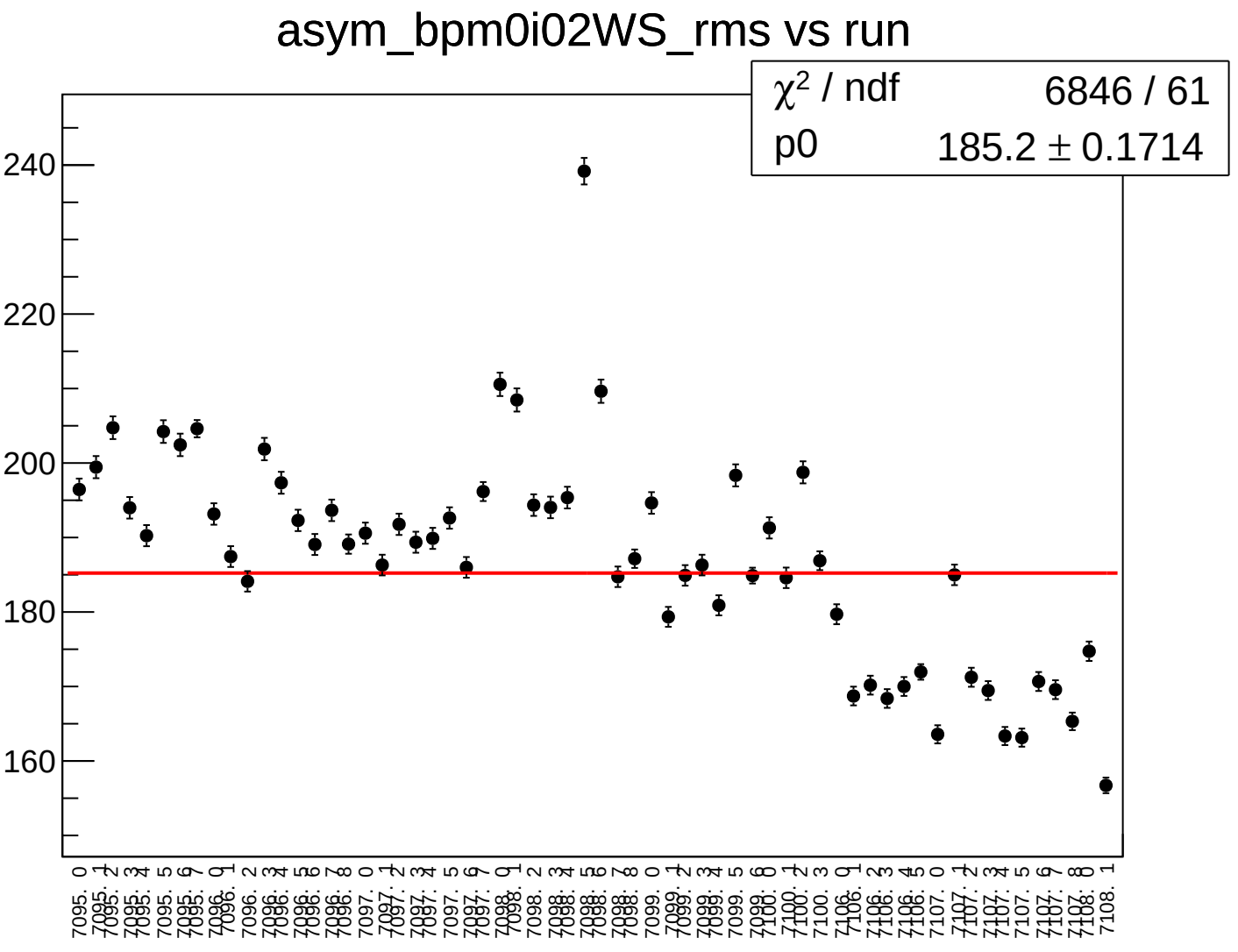

asym_bcm0l02_mean vs run
χ² / ndf 107.8 / 61
p0 −2213 ± 311.1
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean −752.5
Std Dev 793.3
3
2
1
0
−1
−2
−3
−4

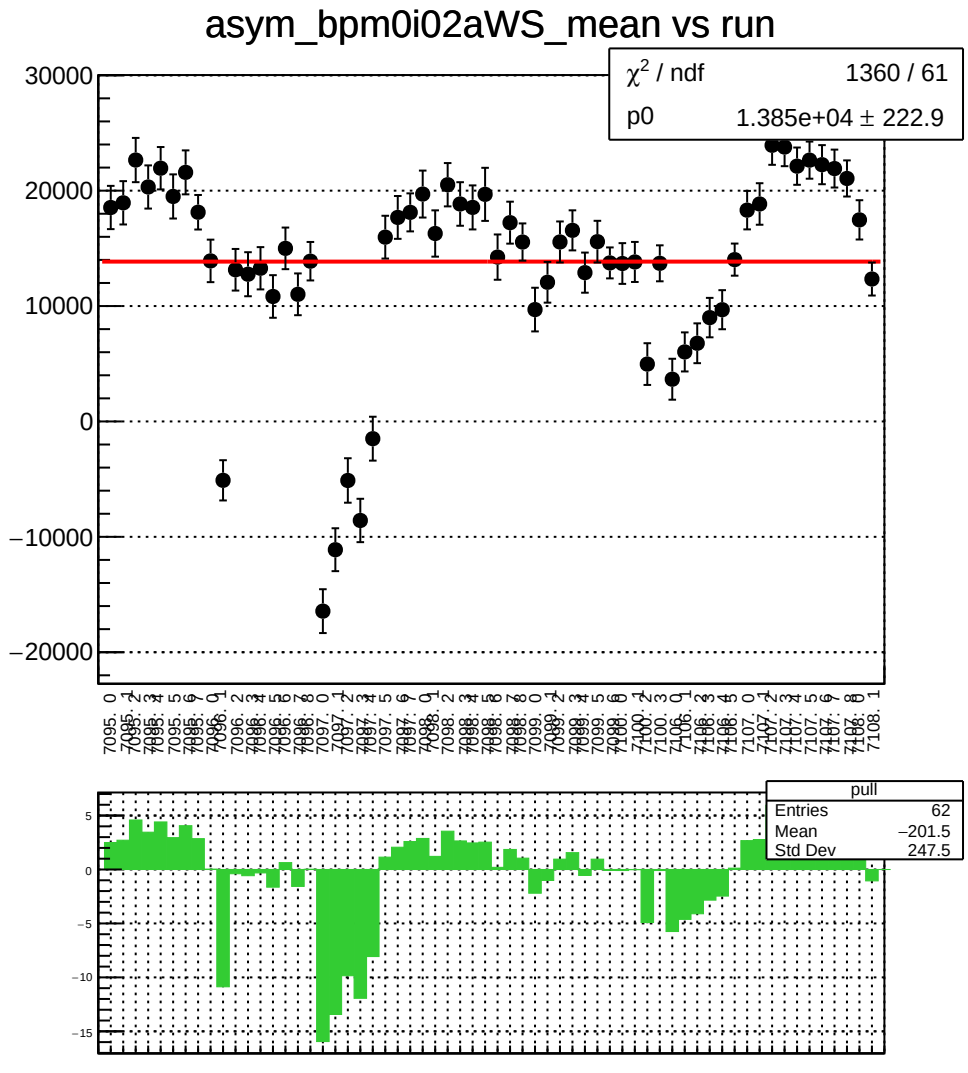

pull1D
Entries 62
Mean −0.01338
Std Dev 1.318
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

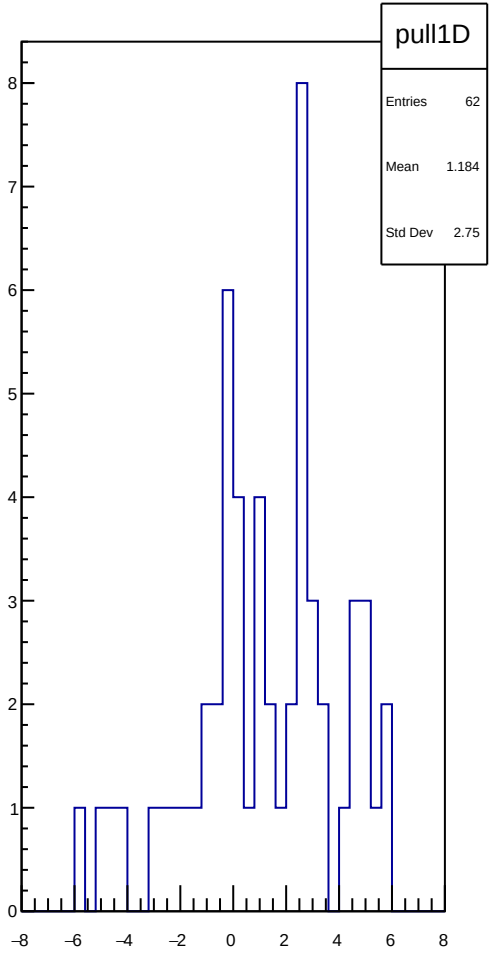

asym_bcm0l02_rms vs run
χ² / ndf 3564 / 61
p0 238 ± 0.22
300
280
260
240
220
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

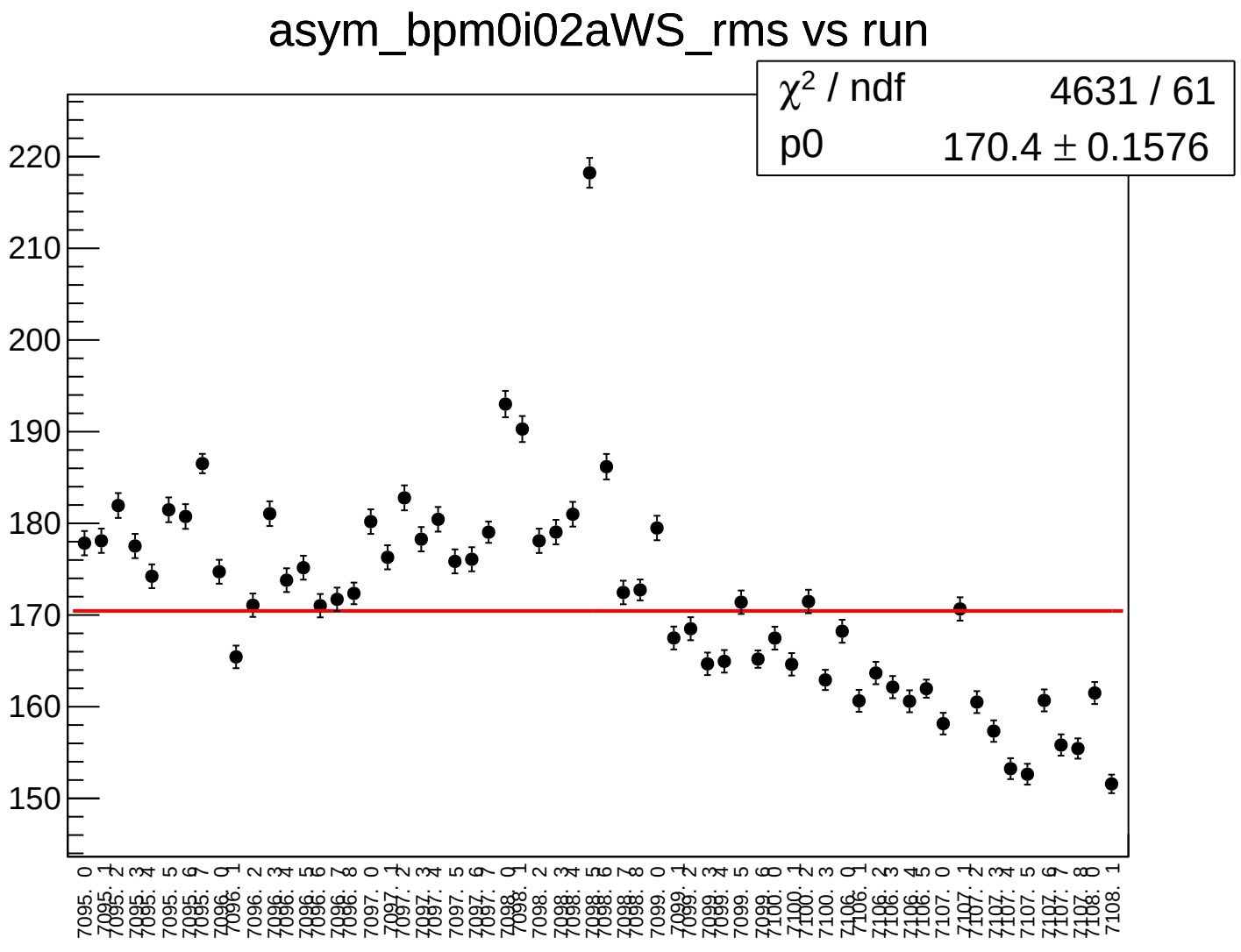

asym_bpm0i02WS_mean vs run
χ² / ndf 1208 / 61
p0 1.075e+04 ± 242.4
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −330.8
Std Dev 380.8
5
0
−5
−10
−15

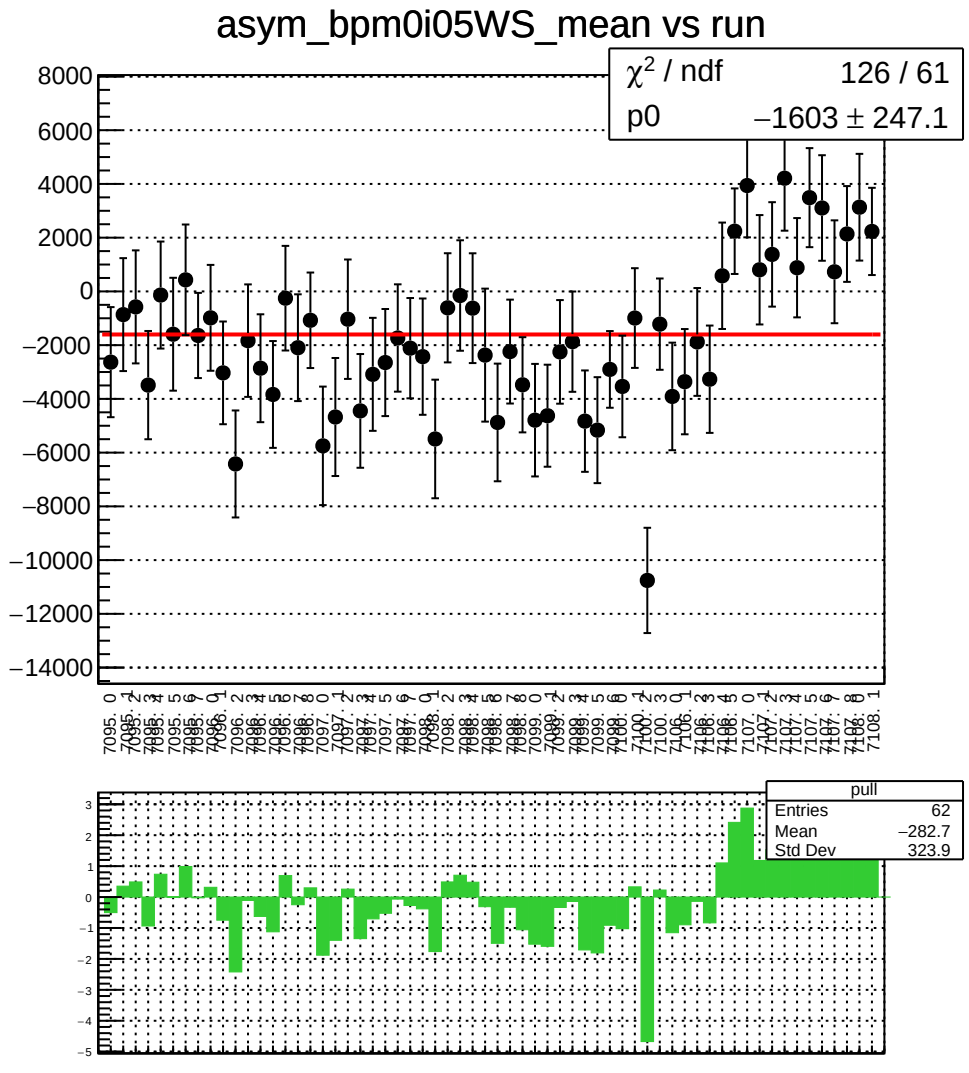

pull1D
Entries 62
Mean 0.9653
Std Dev 2.941
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

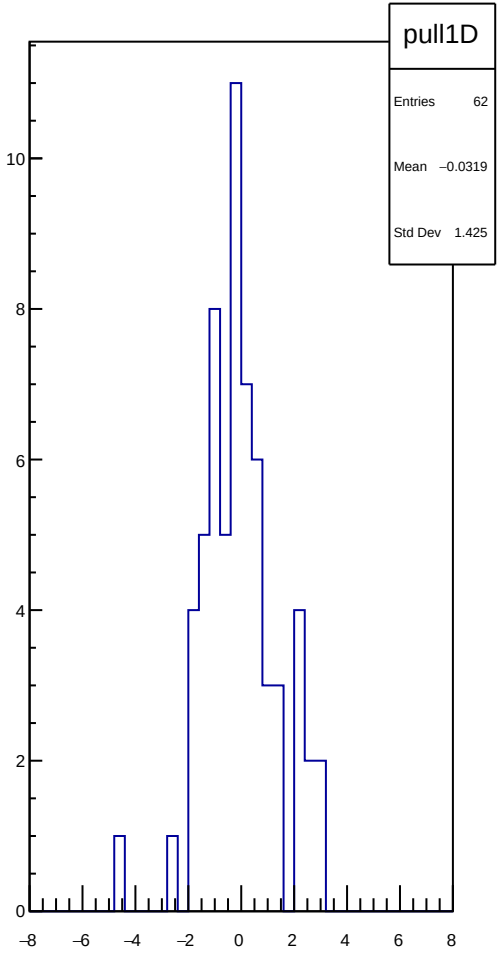

asym_bpm0i02WS_rms vs run
χ² / ndf 6846 / 61
p0 185.2 ± 0.1714
240
220
200
180
160
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

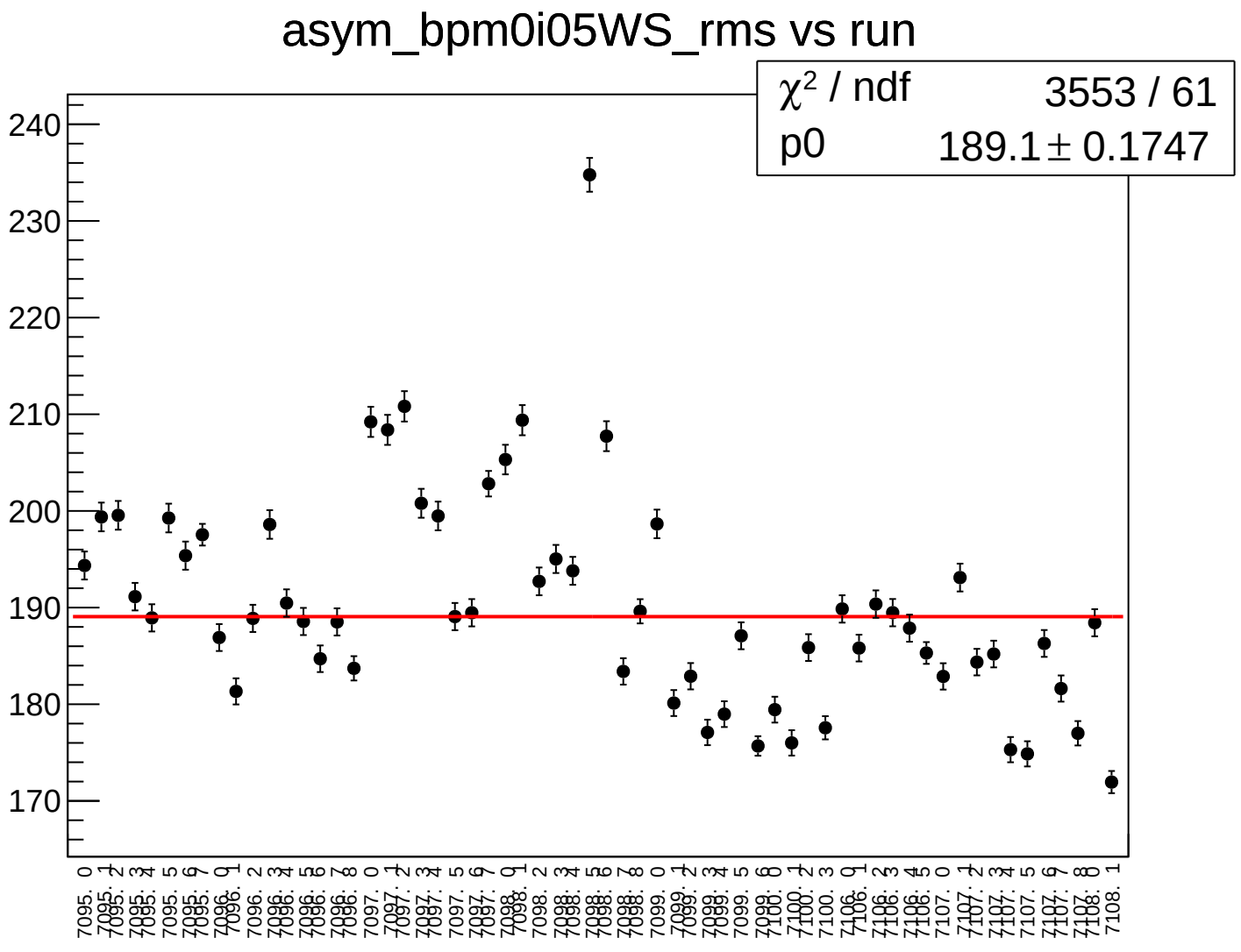

asym_bpm0i02aWS_mean vs run
χ² / ndf 1360 / 61
p0 1.385e+04 ± 222.9
pull
Entries 62
Mean −201.5
Std Dev 247.5

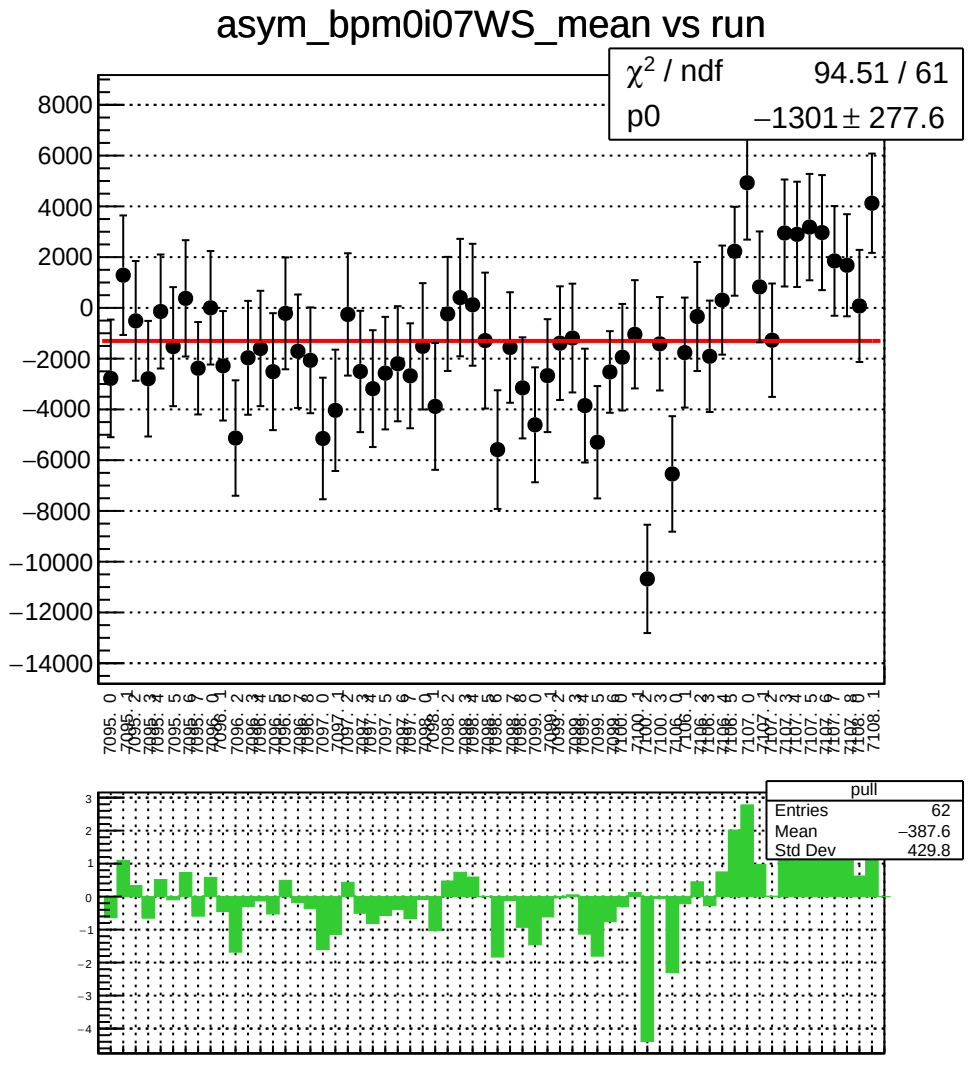

pull1D
Entries 62
Mean 1.184
Std Dev 2.75

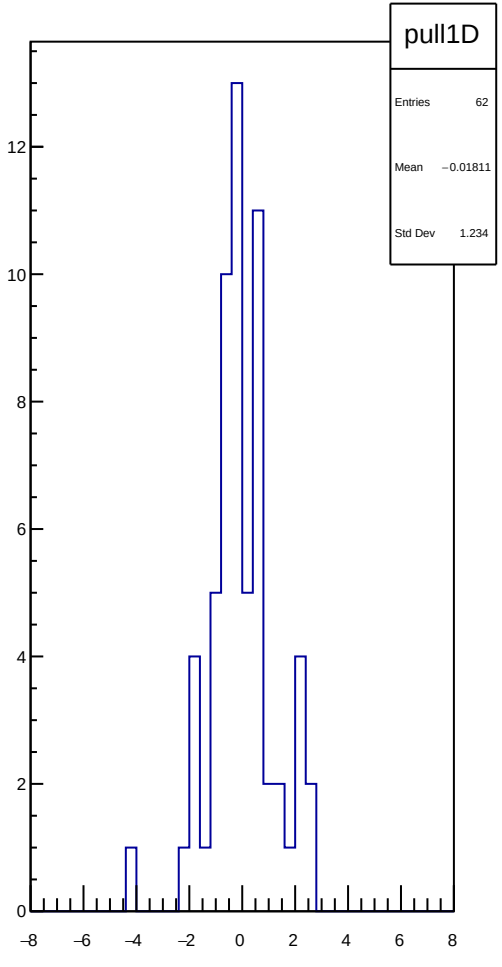

asym_bpm0i02aWS_rms vs run
χ² / ndf 4631 / 61
p0 170.4 ± 0.1576
220
210
200
190
180
170
160
150

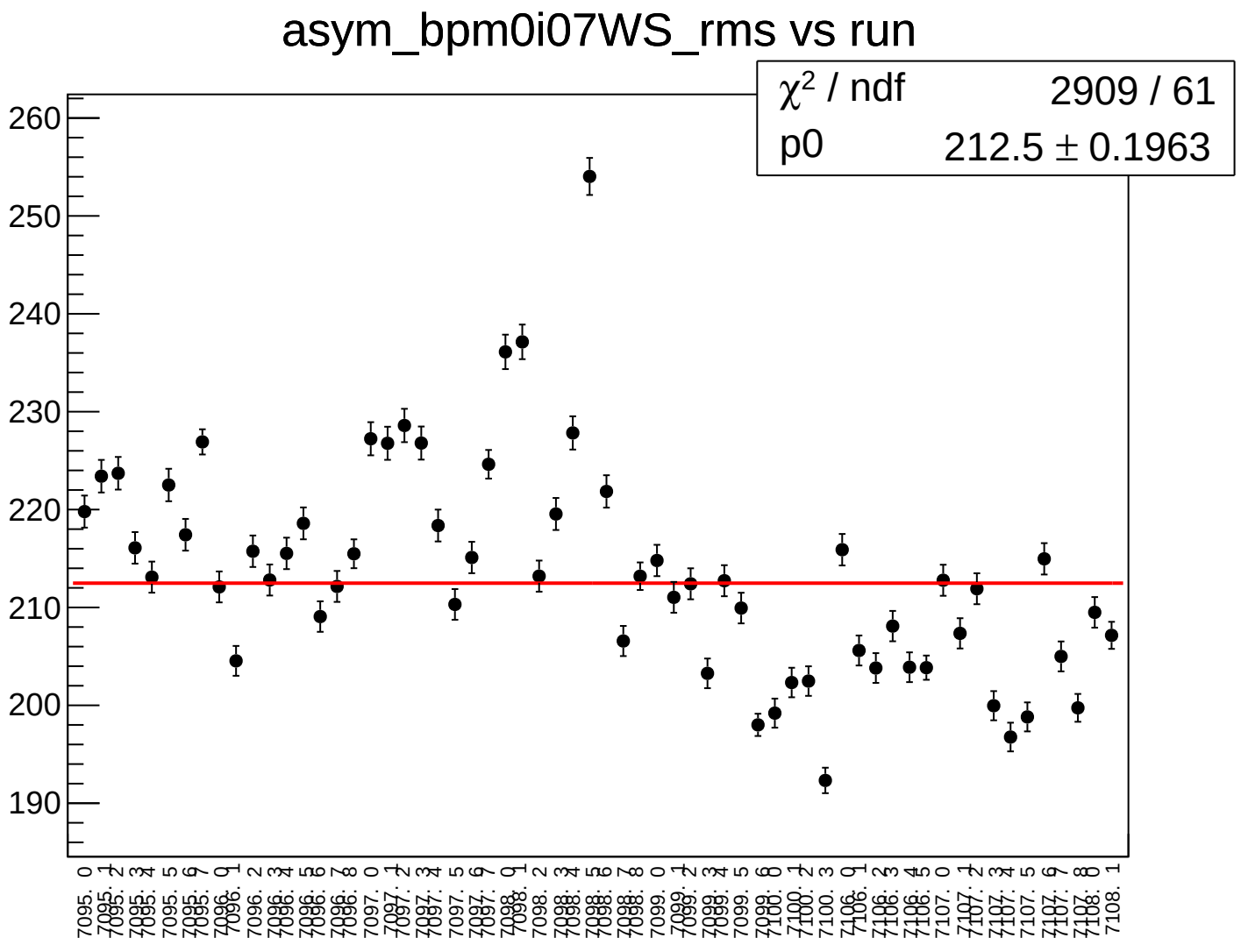

asym_bpm0i05WS_mean vs run
χ² / ndf 126 / 61
p0 −1603 ± 247.1
pull
Entries 62
Mean −282.7
Std Dev 323.9

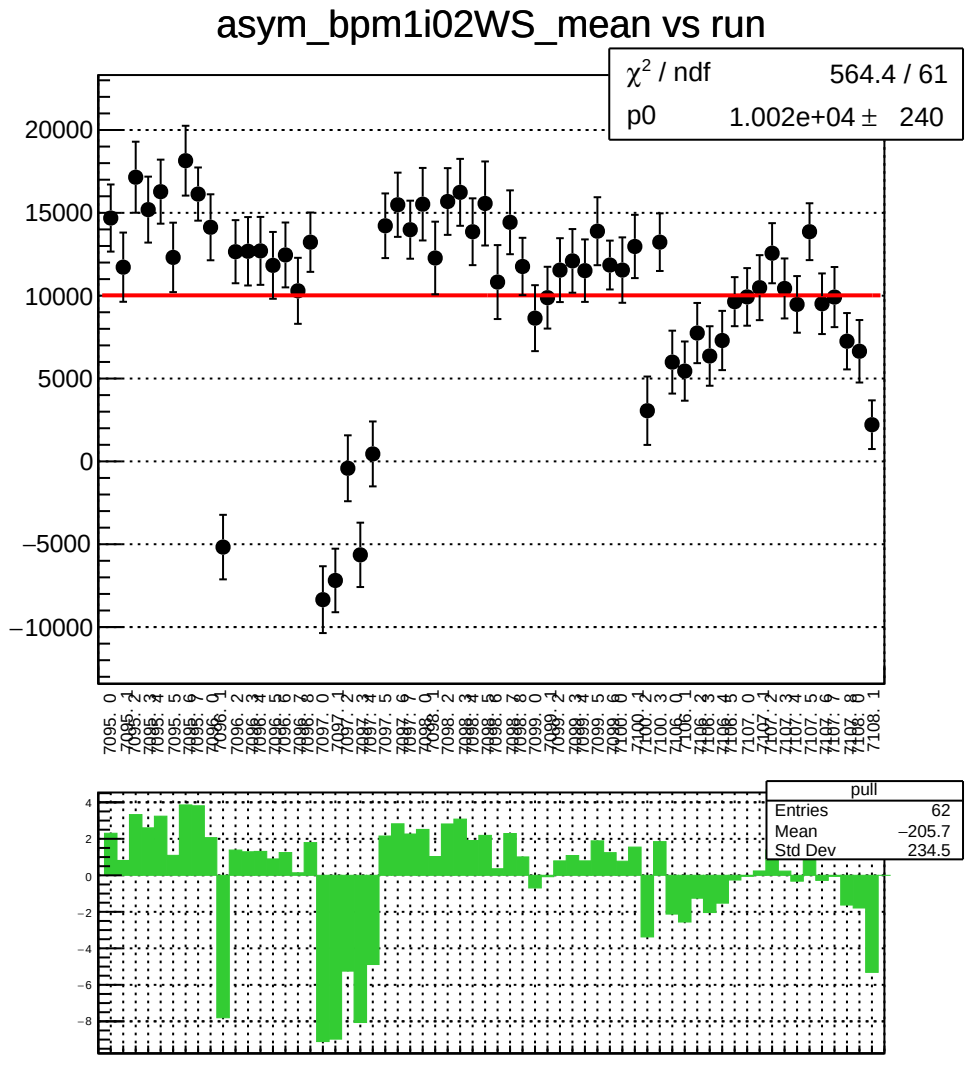

pull1D
Entries 62
Mean −0.0319
Std Dev 1.425

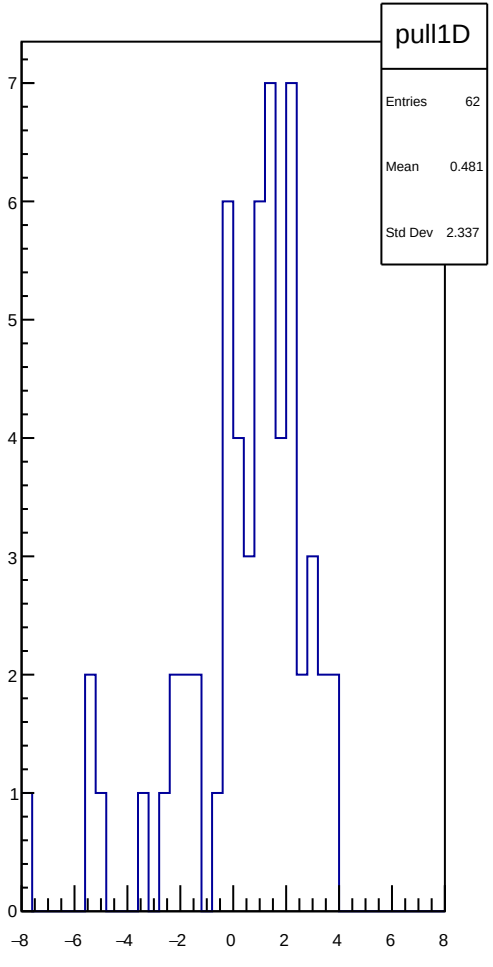

asym_bpm0i05WS_rms vs run
χ² / ndf 3553 / 61
p0 189.1 ± 0.1747
240
230
220
210
200
190
180
170

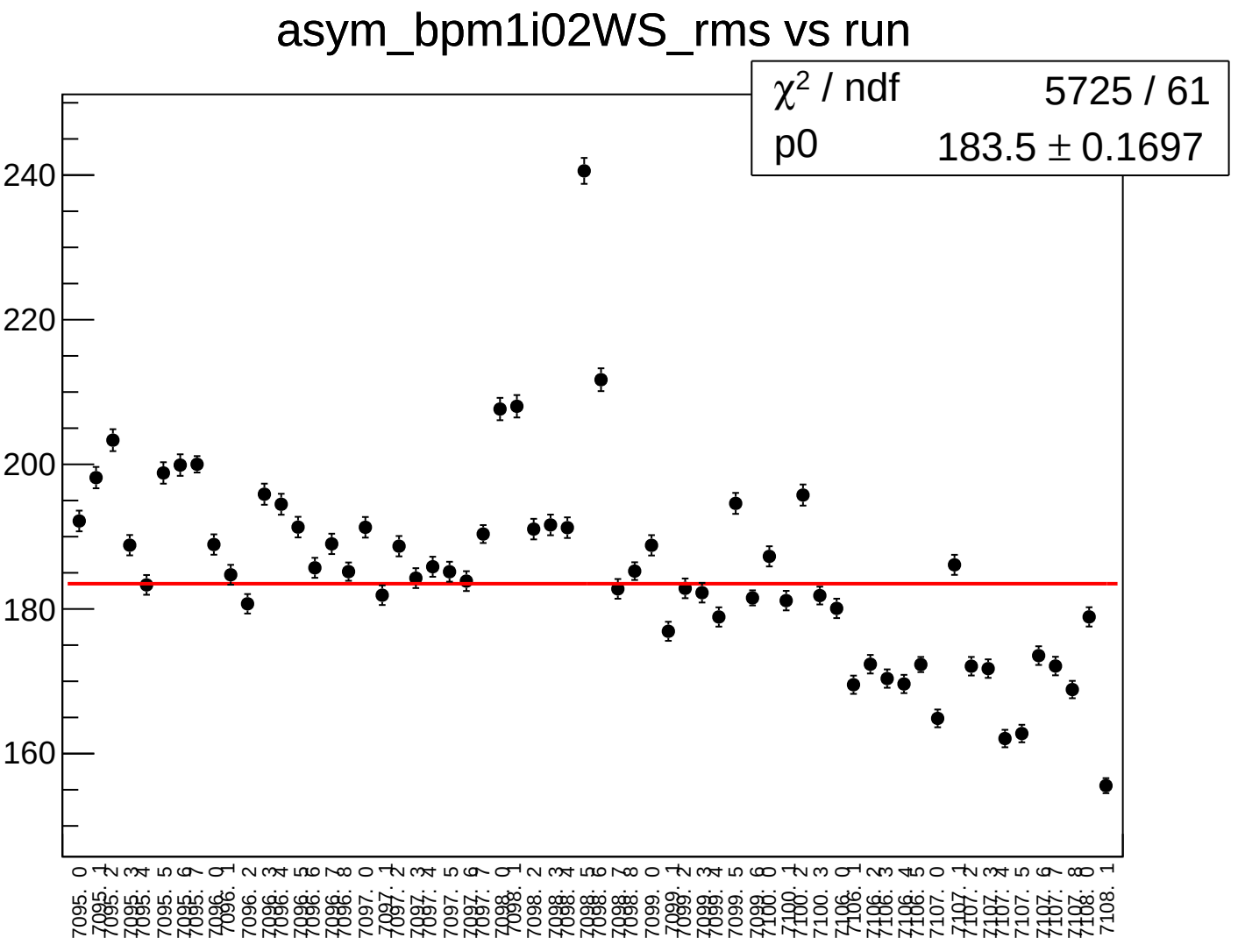

asym_bpm0i07WS_mean vs run
χ² / ndf 94.51 / 61
p0 −1301 ± 277.6
pull
Entries 62
Mean −387.6
Std Dev 429.8

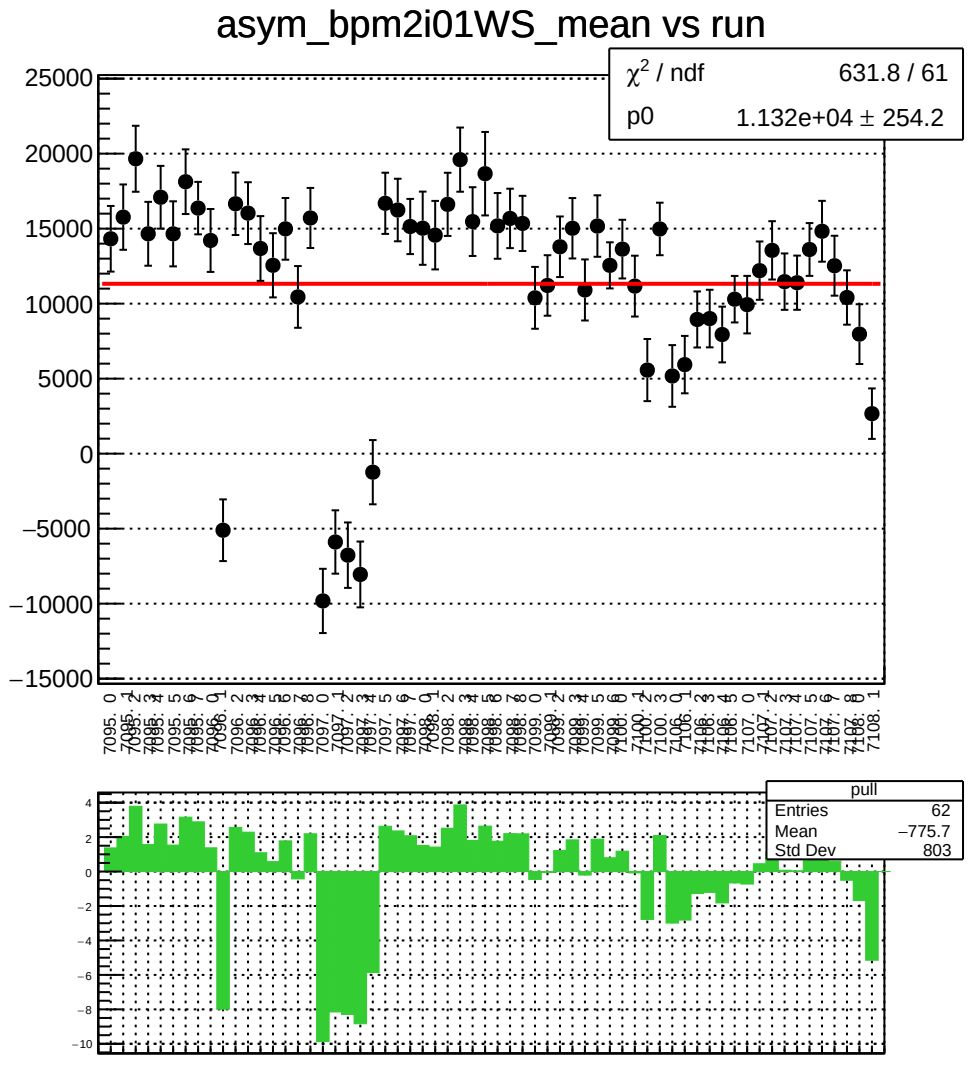

pull1D
Entries 62
Mean −0.01811
Std Dev 1.234

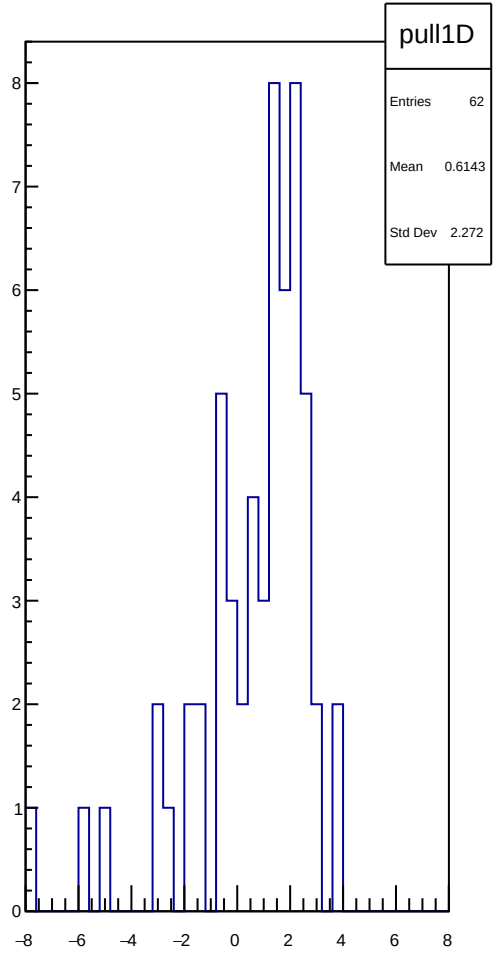

asym_bpm0i07WS_rms vs run
χ² / ndf 2909 / 61
p0 212.5 ± 0.1963
260
250
240
230
220
210
200
190

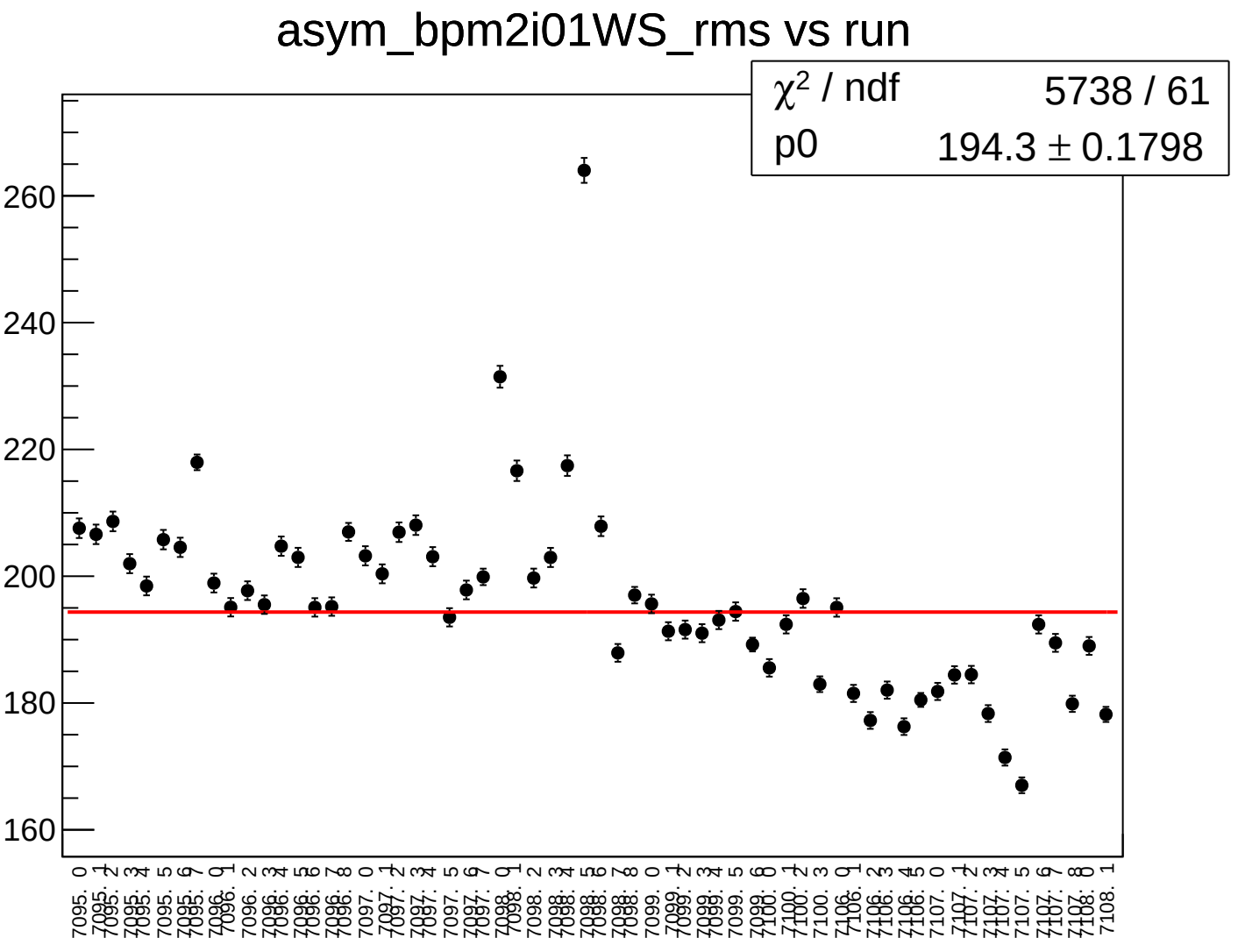

asym_bpm1i02WS_mean vs run
χ² / ndf 564.4 / 61
p0 1.002e+04 ± 240
pull
Entries 62
Mean −205.7
Std Dev 234.5

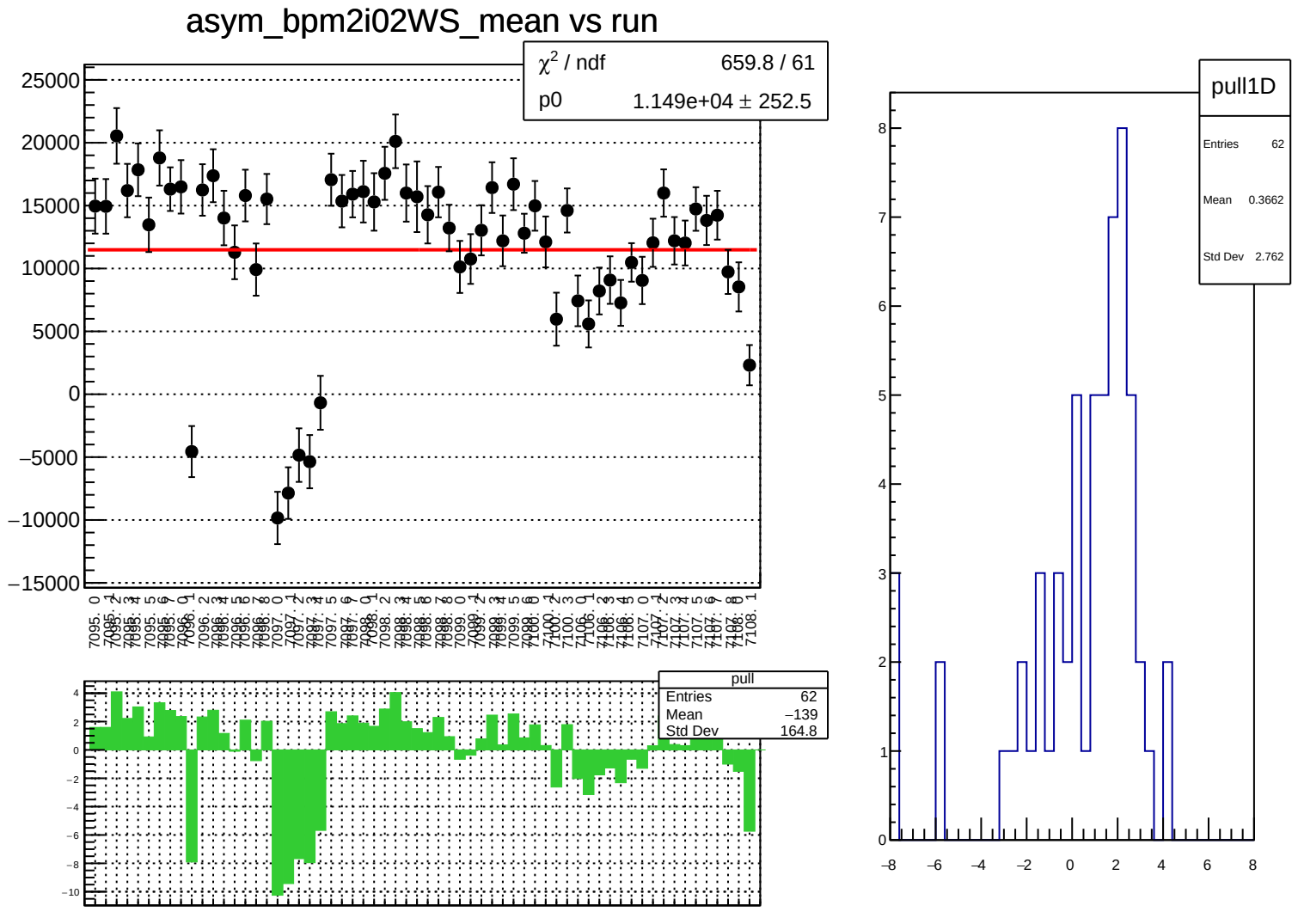

pull1D
Entries 62
Mean 0.481
Std Dev 2.337

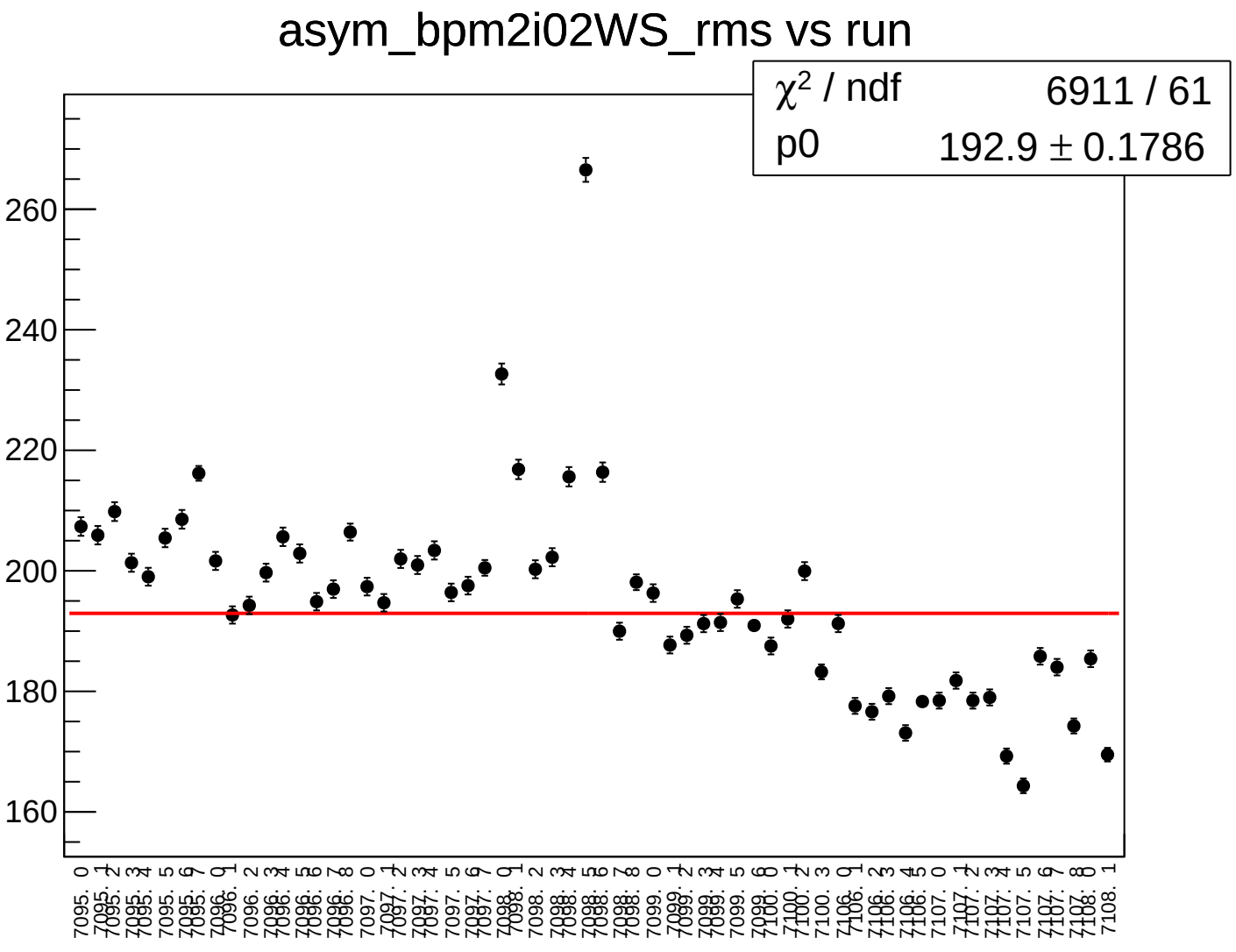

asym_bpm1i02WS_rms vs run
χ² / ndf 5725 / 61
p0 183.5 ± 0.1697
240
220
200
180
160
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

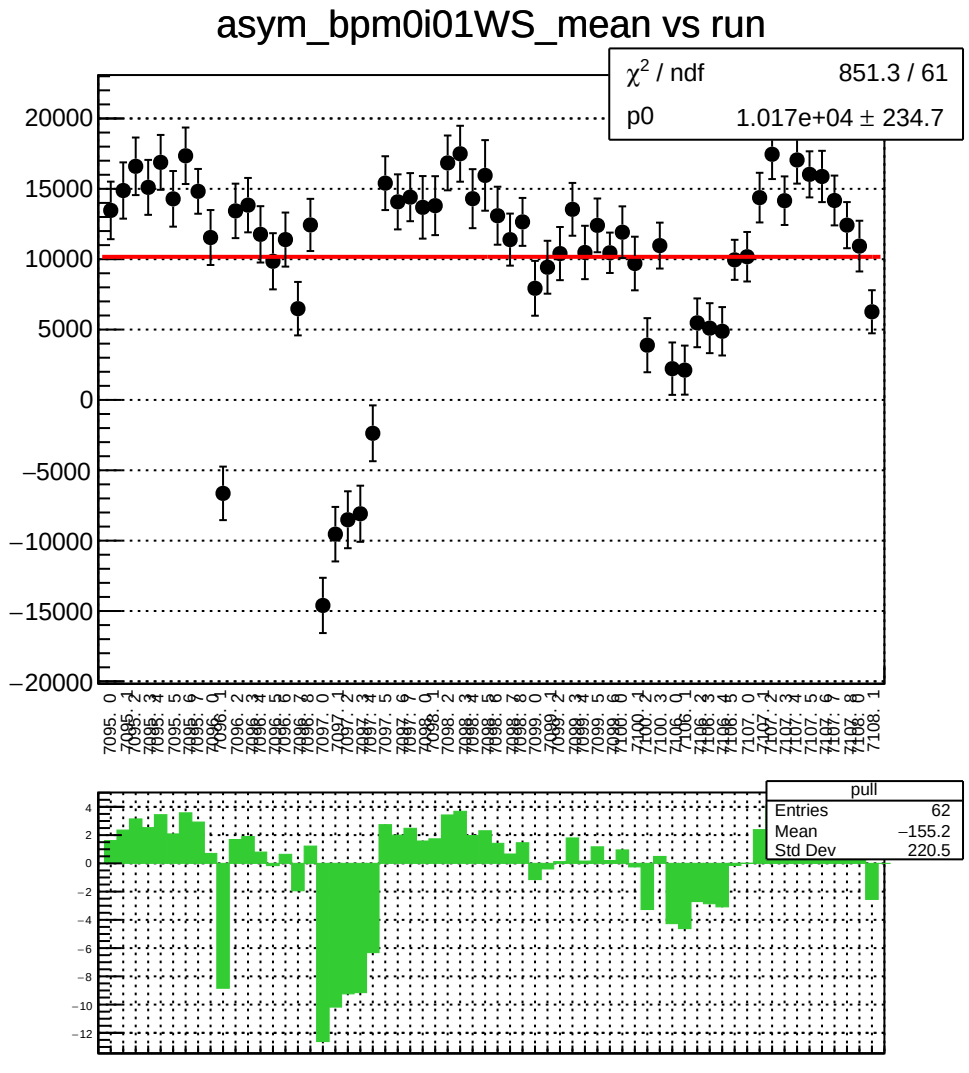

asym_bpm2i01WS_mean vs run
χ² / ndf 631.8 / 61
p0 1.132e+04 ± 254.2
pull
Entries 62
Mean −775.7
Std Dev 803

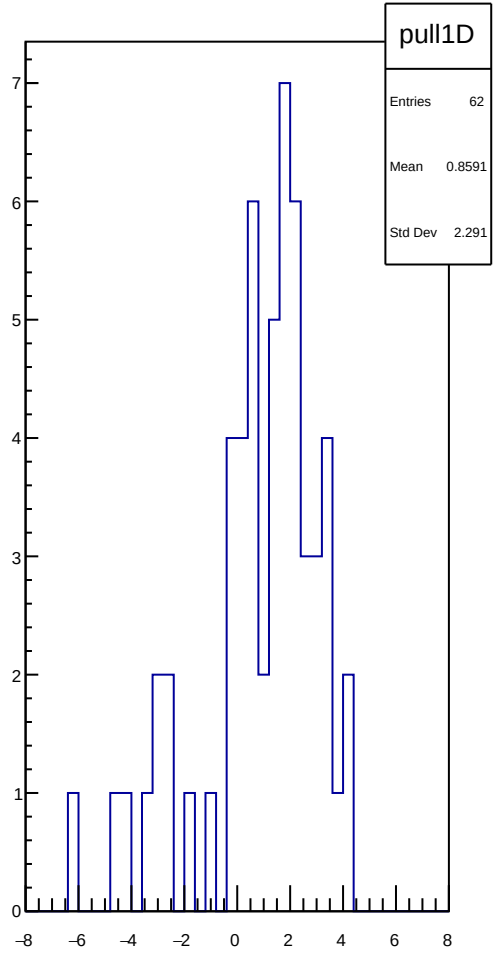

pull1D
Entries 62
Mean 0.6143
Std Dev 2.272

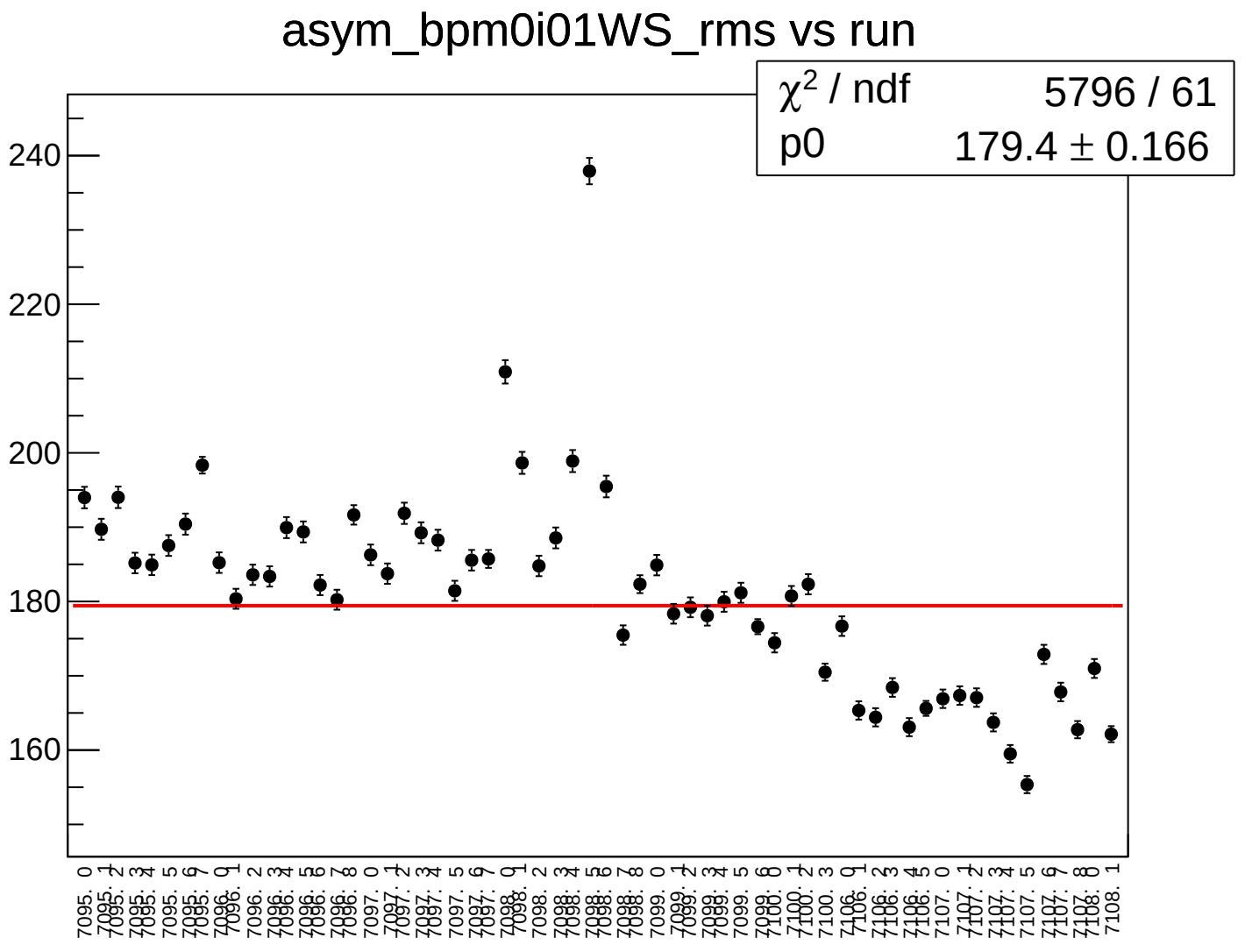

asym_bpm2i01WS_rms vs run
χ^2 / ndf 5738 / 61
p0 194.3 ± 0.1798
260
240
220
200
180
160

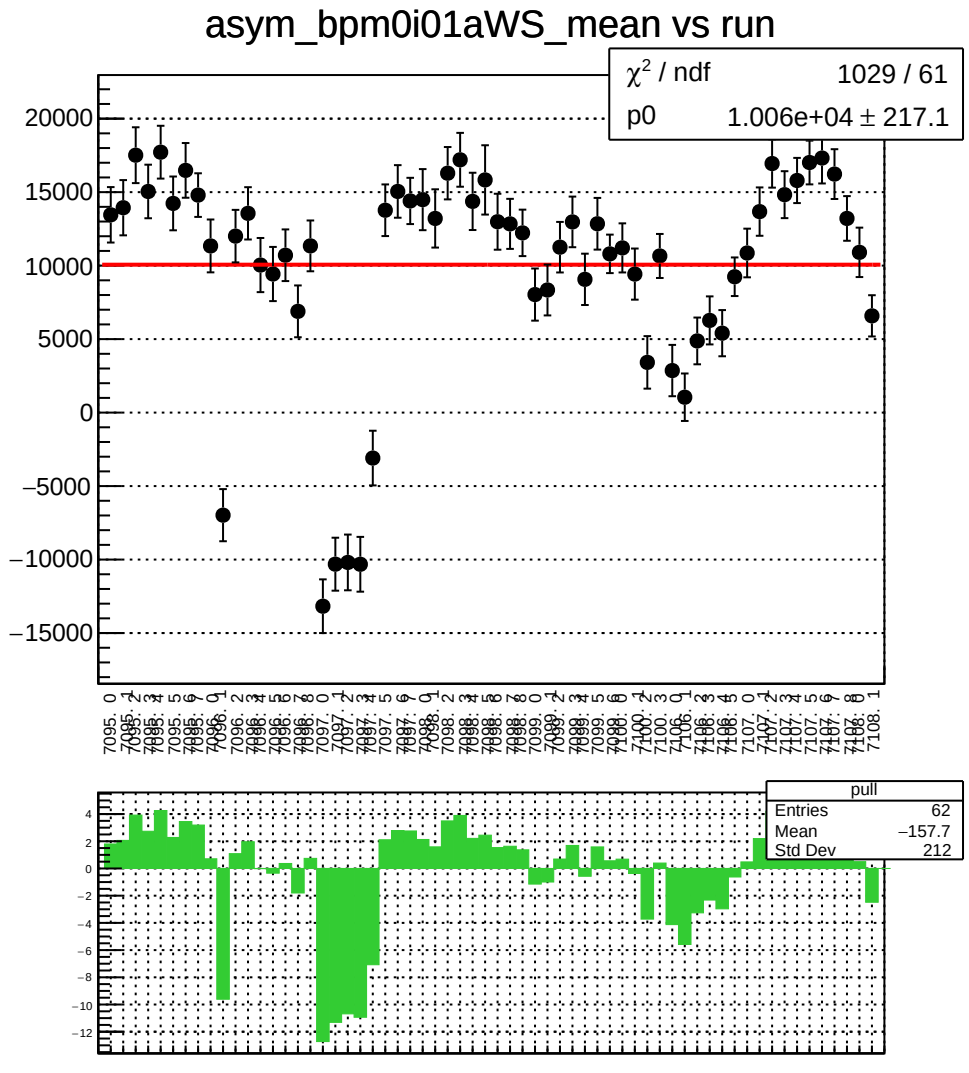

asym_bpm2i02WS_mean vs run
χ² / ndf 659.8 / 61
p0 1.149e+04 ± 252.5
pull
Entries 62
Mean −139
Std Dev 164.8
pull1D
Entries 62
Mean 0.3662
Std Dev 2.762

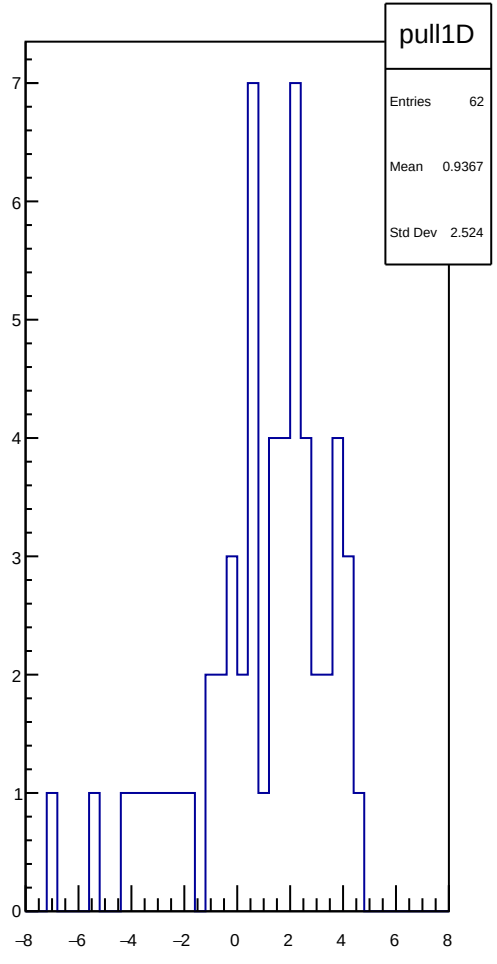

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6911 / 61
p0 192.9 ± 0.1786
260
240
220
200
180
160

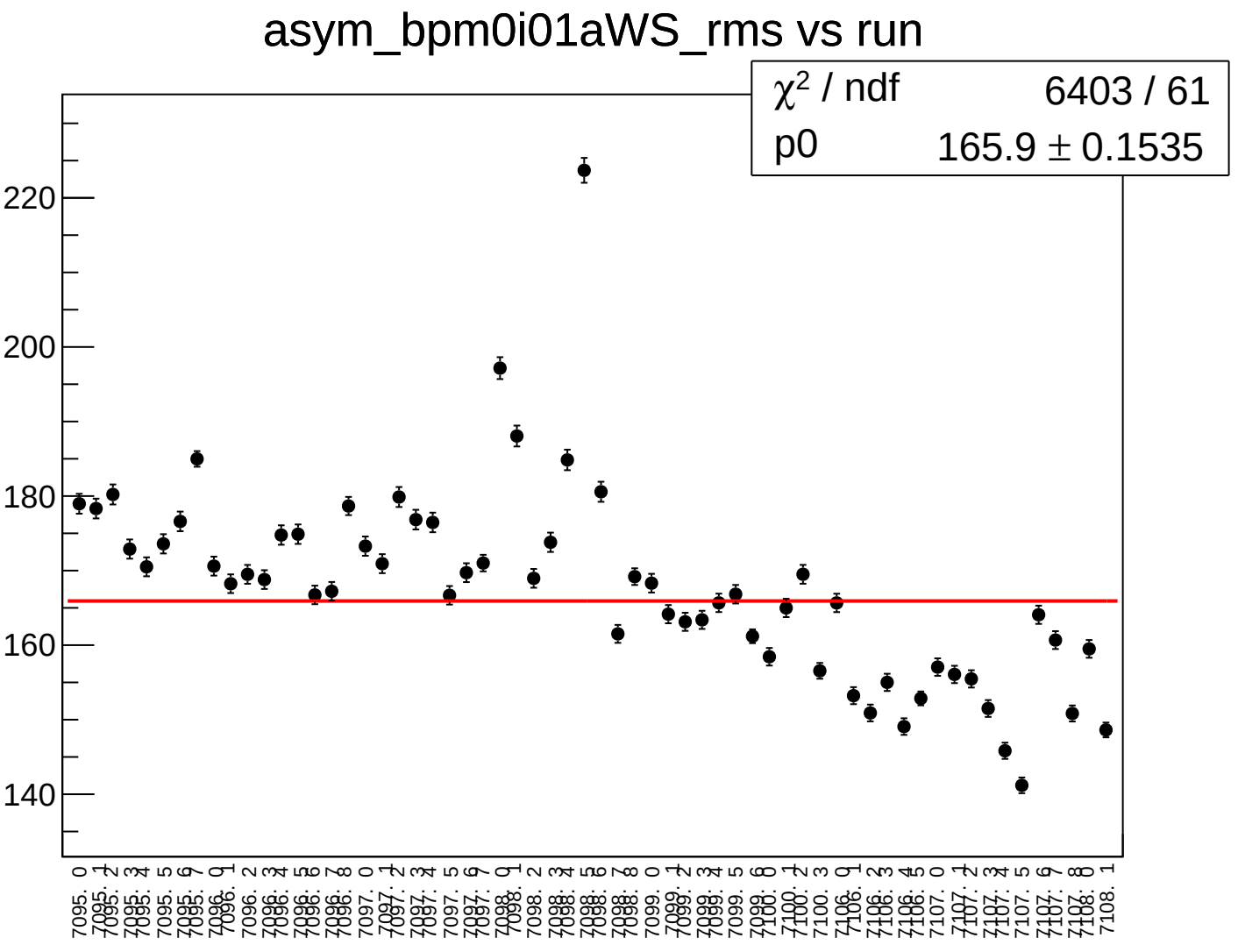

asym_bpm0i01WS_mean vs run
χ² / ndf 851.3 / 61
p0 1.017e+04 ± 234.7
pull
Entries 62
Mean −155.2
Std Dev 220.5

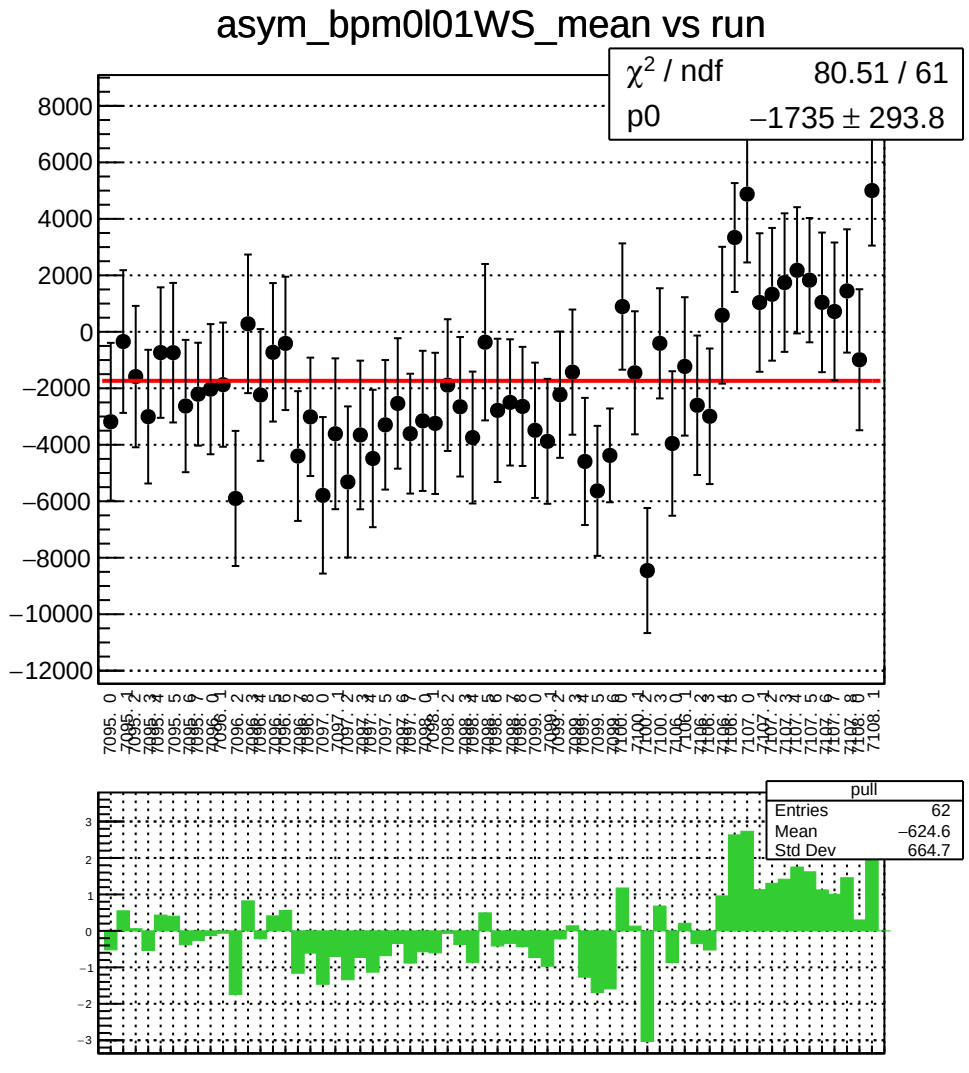

pull1D
Entries 62
Mean 0.8591
Std Dev 2.291

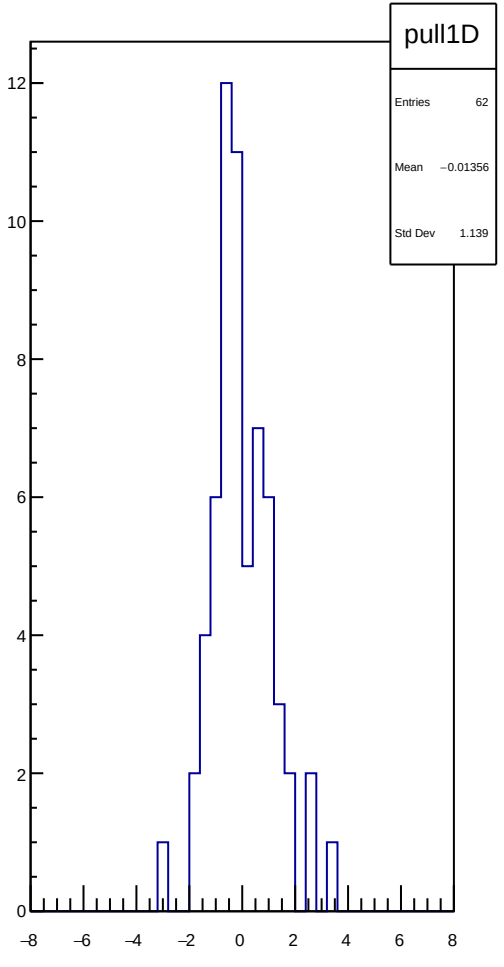

asym_bpm0i01WS_rms vs run
χ^2 / ndf 5796 / 61
p0 179.4 ± 0.166
240
220
200
180
160

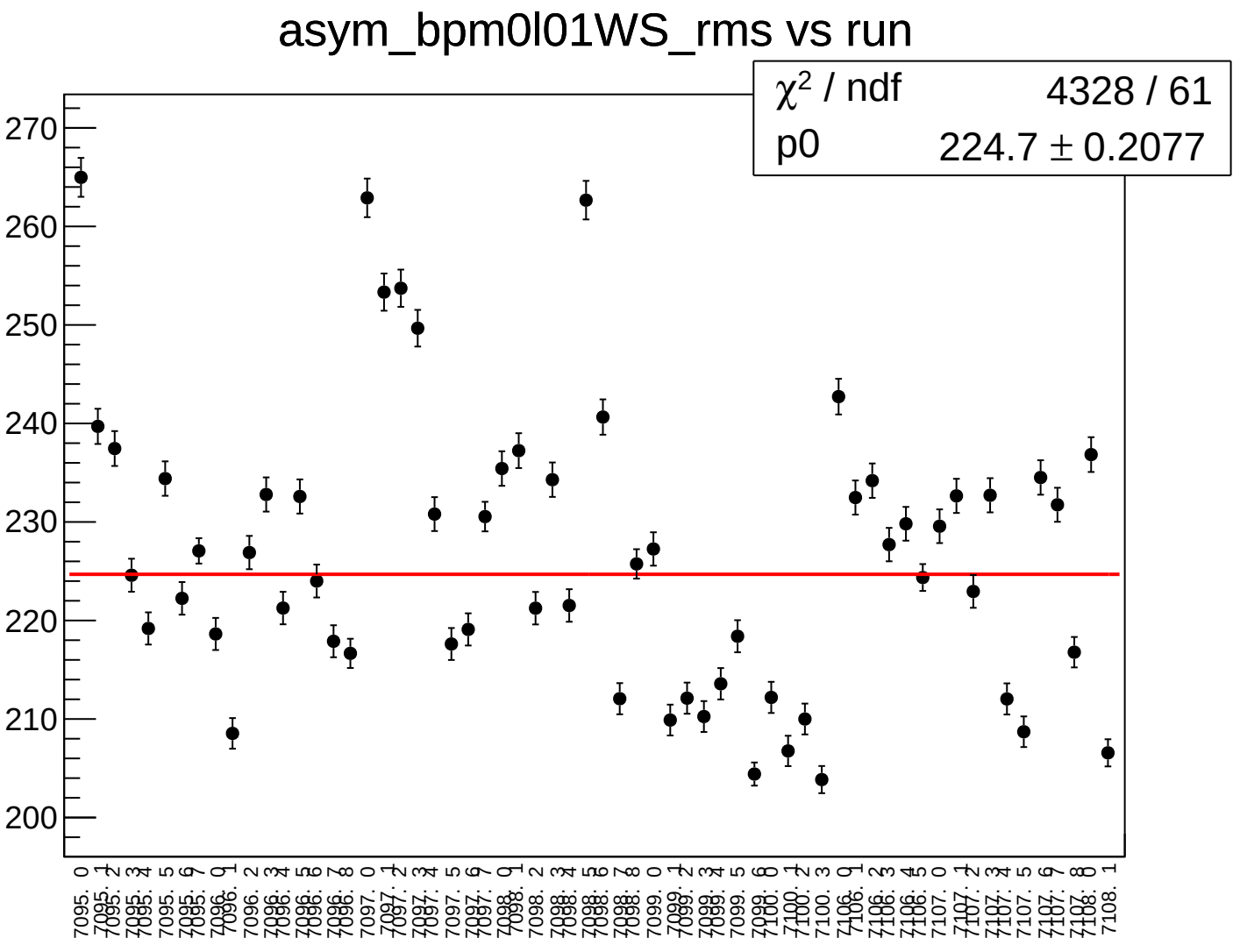

asym_bpm0i01aWS_mean vs run
χ² / ndf 1029 / 61
p0 1.006e+04 ± 217.1
pull
Entries 62
Mean −157.7
Std Dev 212

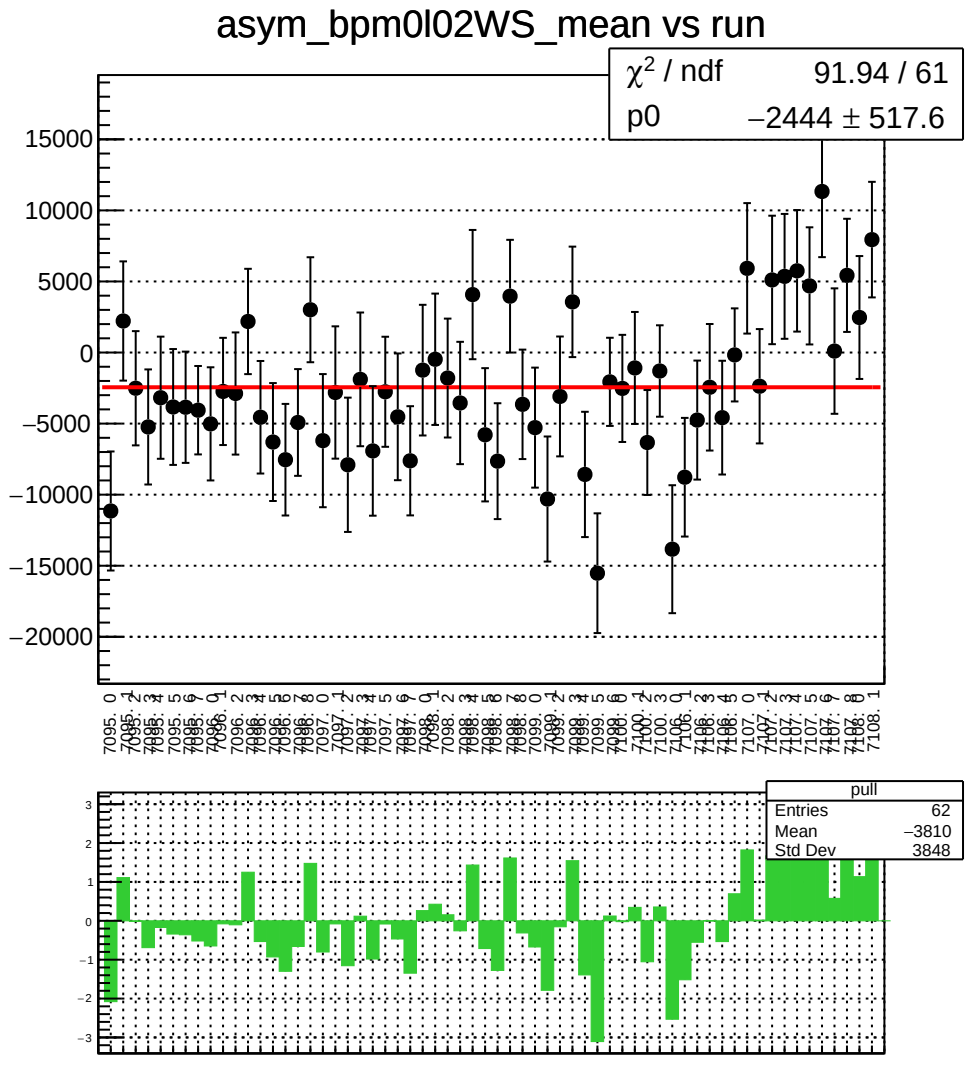

pull1D
Entries 62
Mean 0.9367
Std Dev 2.524

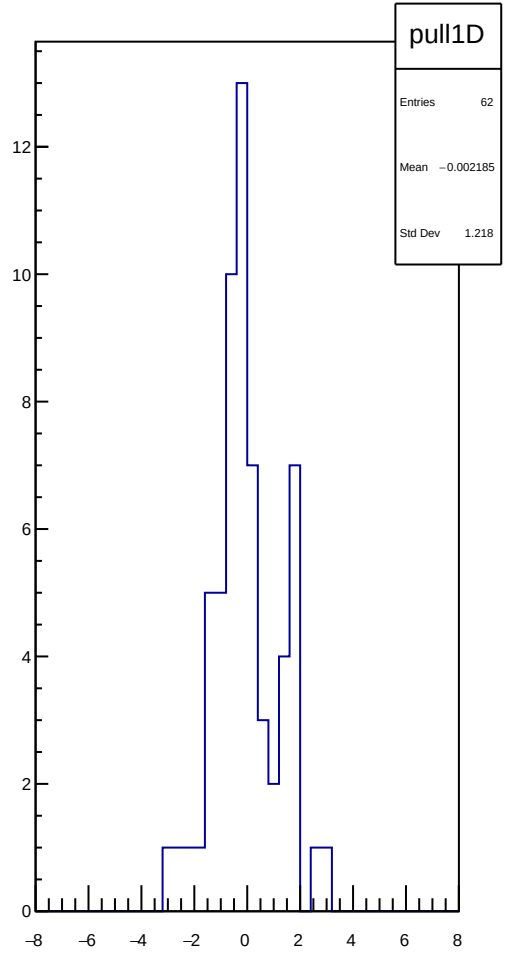

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 6403 / 61
p0 165.9 ± 0.1535
220
200
180
160
140

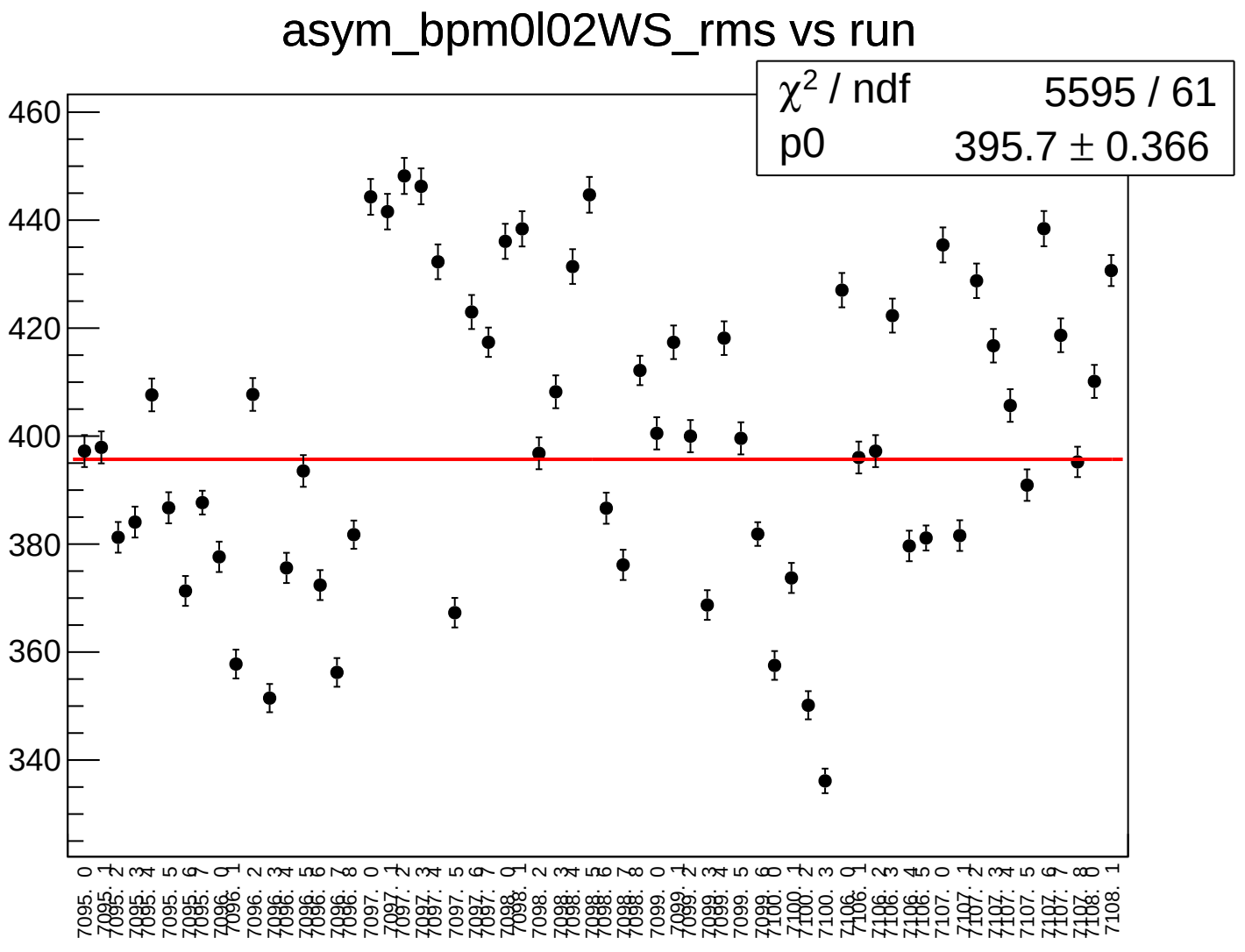

asym_bpm0l01WS_mean vs run
χ² / ndf 80.51 / 61
p0 −1735 ± 293.8
pull
Entries 62
Mean −624.6
Std Dev 664.7

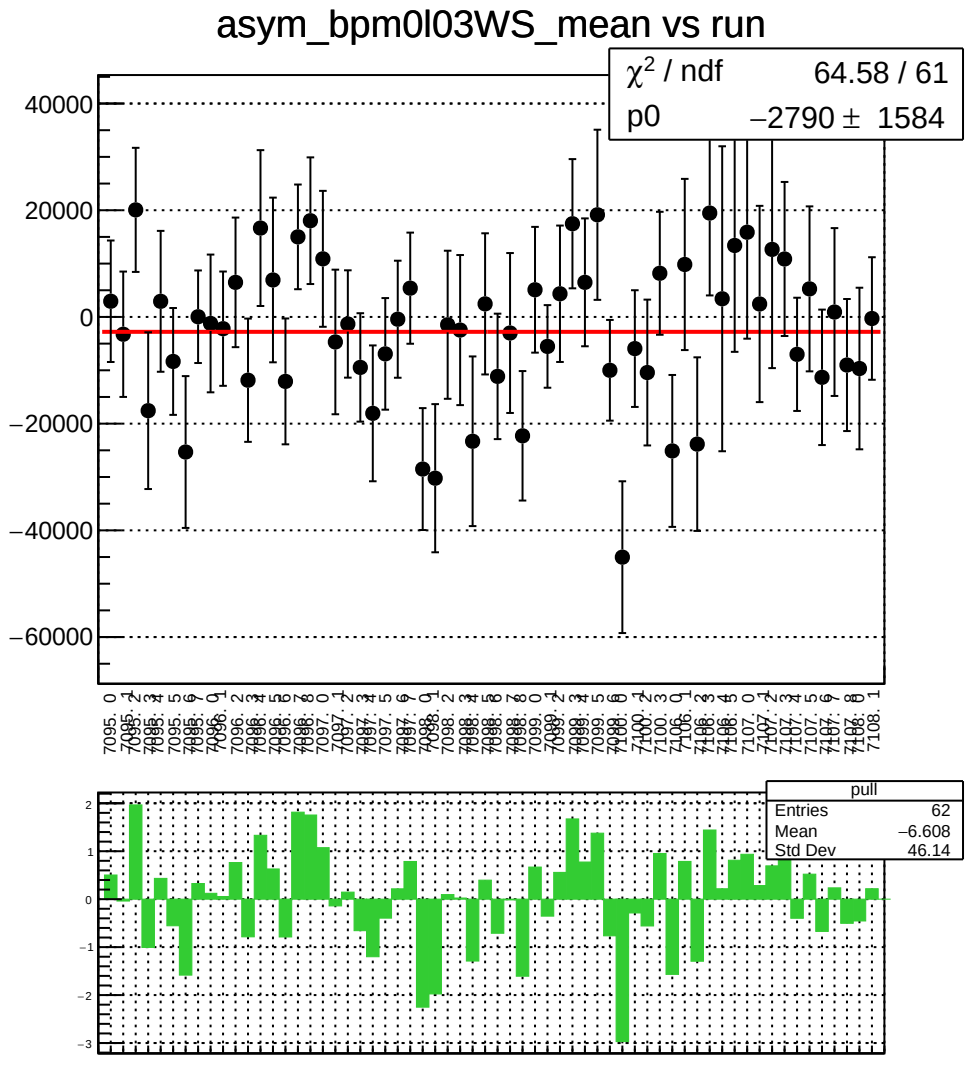

pull1D
Entries 62
Mean −0.01356
Std Dev 1.139

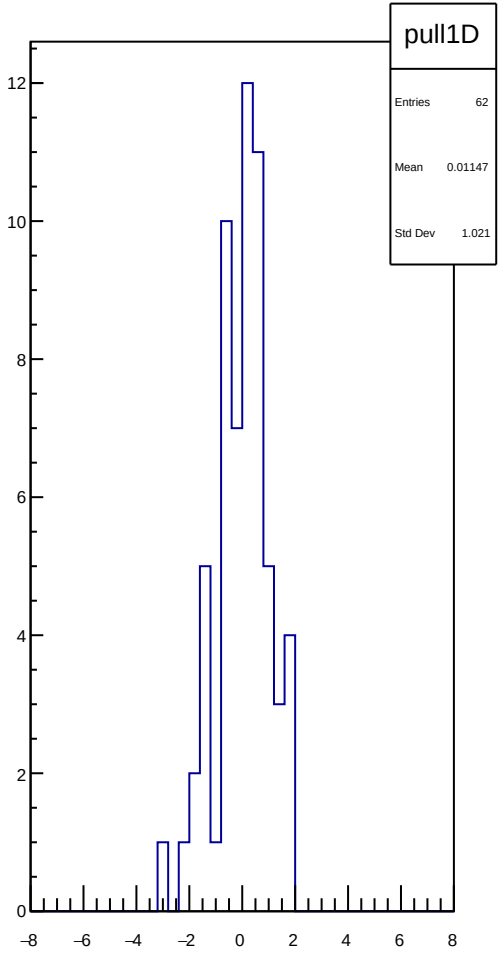

asym_bpm0l01WS_rms vs run
χ² / ndf 4328 / 61
p0 224.7 ± 0.2077
270
260
250
240
230
220
210
200

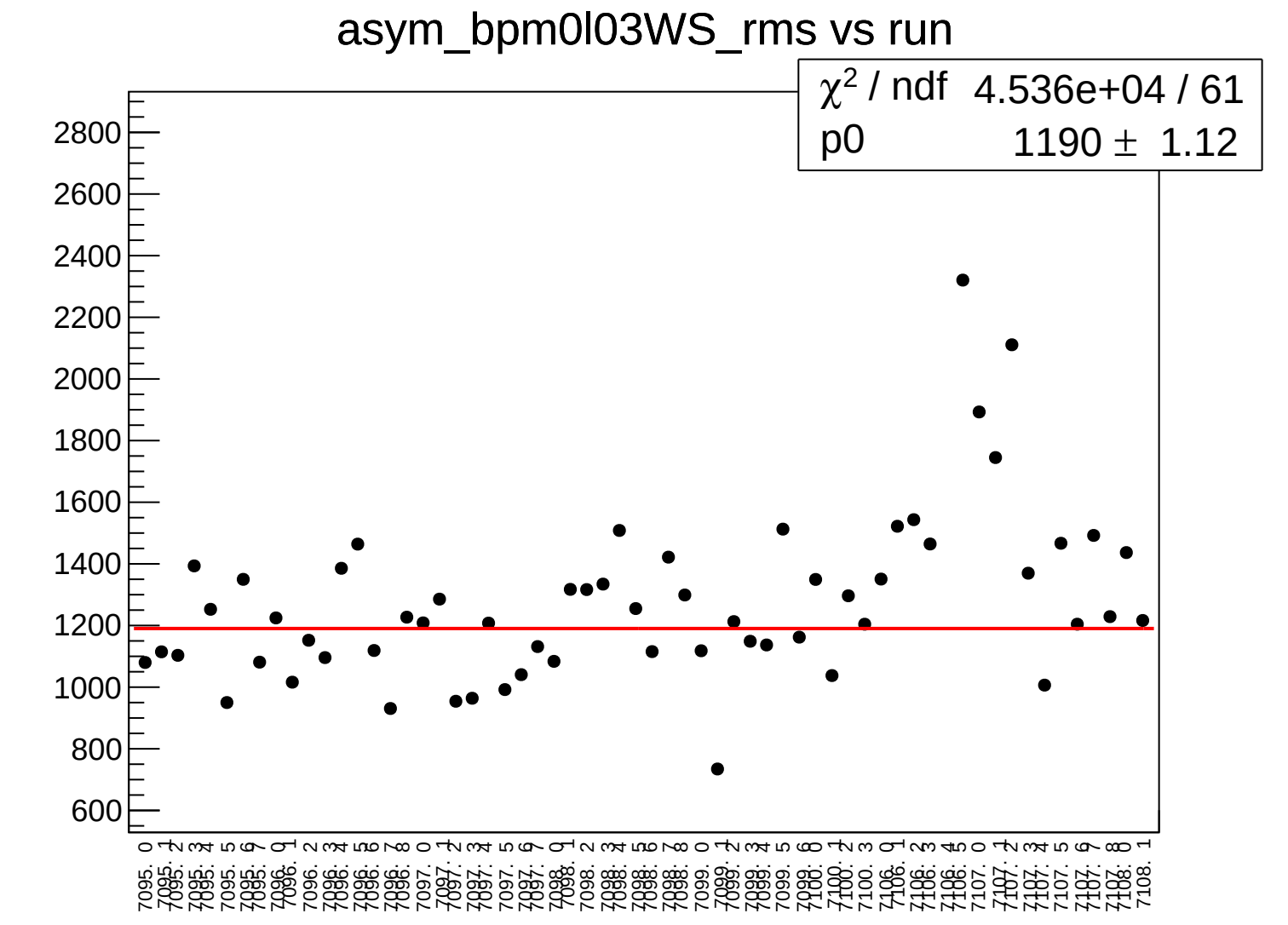

asym_bpm0l02WS_mean vs run
χ² / ndf 91.94 / 61
p0 −2444 ± 517.6
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 62
Mean −3810
Std Dev 3848
3
2
1
0
−1
−2
−3

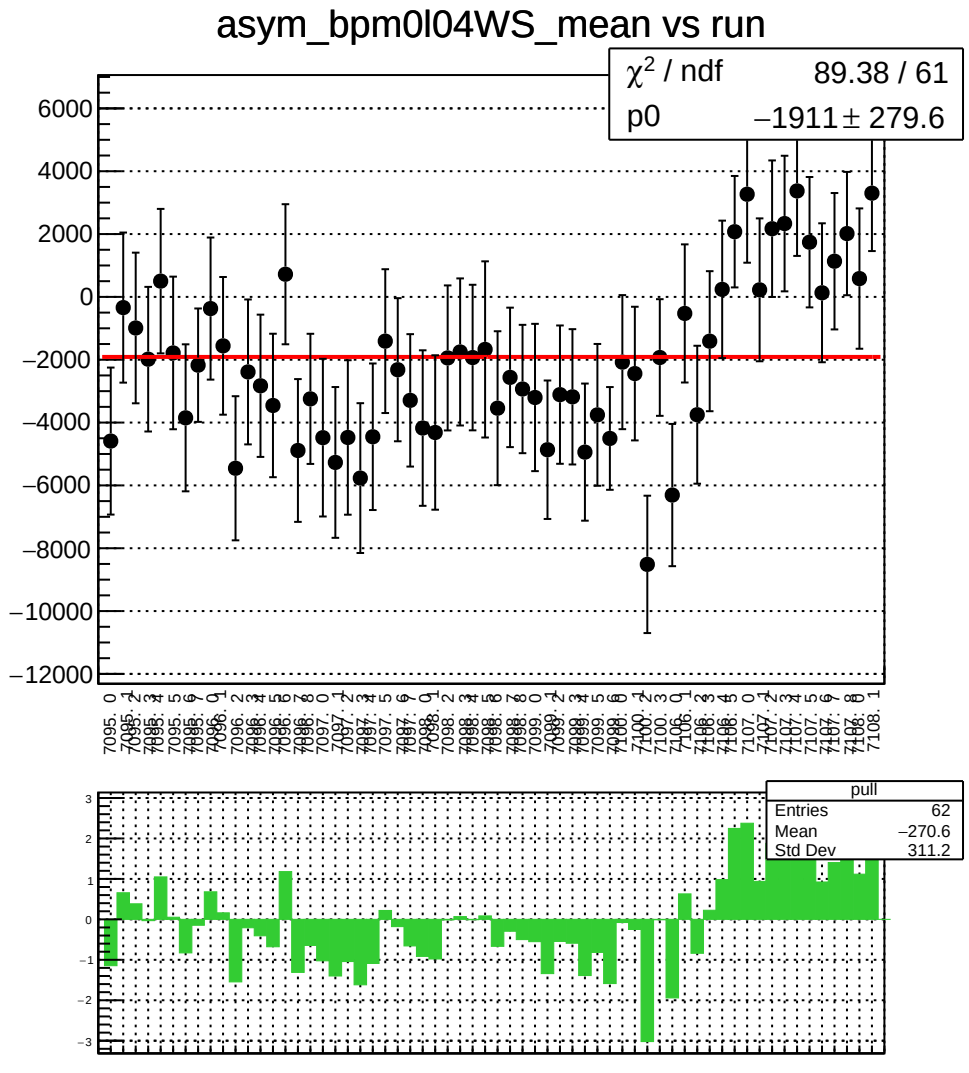

pull1D
Entries 62
Mean −0.002185
Std Dev 1.218
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

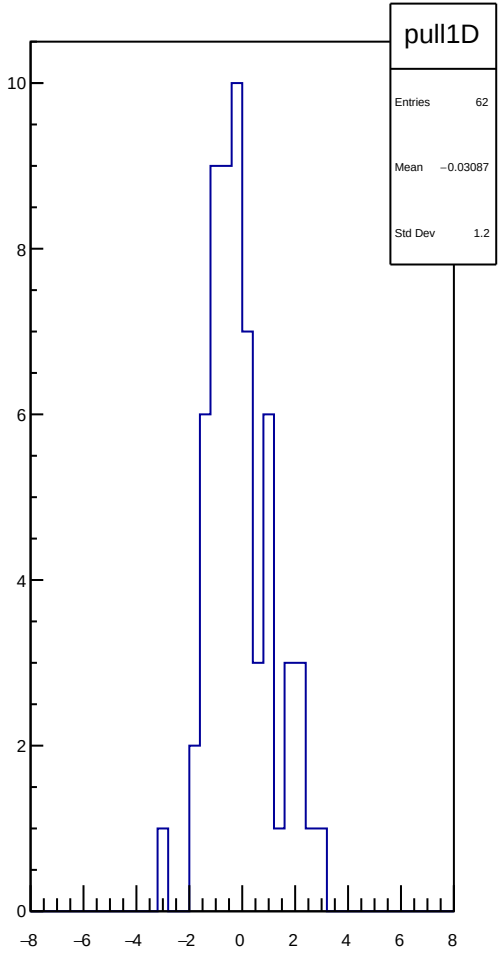

asym_bpm0l02WS_rms vs run
χ^2 / ndf 5595 / 61
p0 395.7 ± 0.366
460
440
420
400
380
360
340

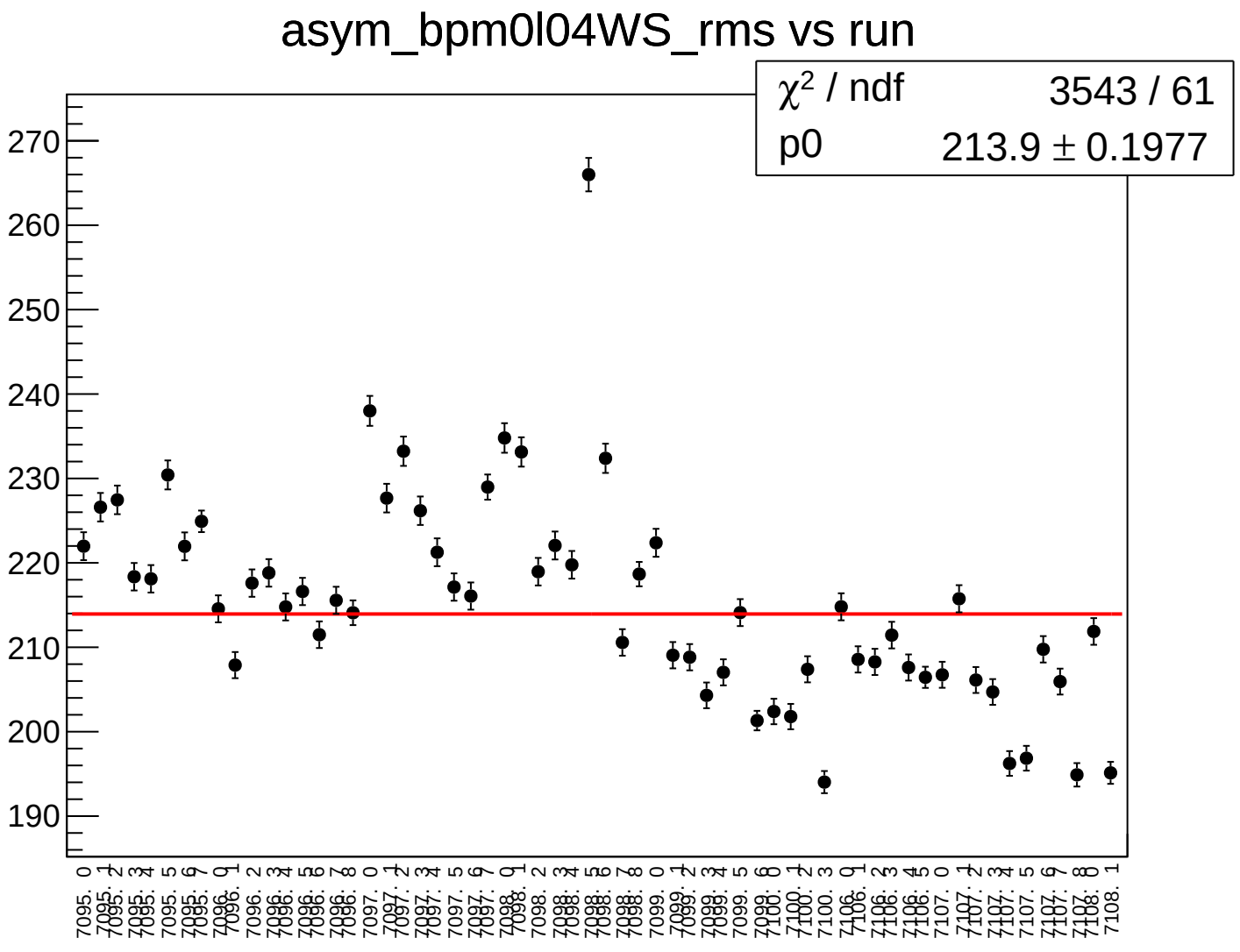

asym_bpm0l03WS_mean vs run
χ² / ndf 64.58 / 61
p0 −2790 ± 1584
pull
Entries 62
Mean −6.608
Std Dev 46.14

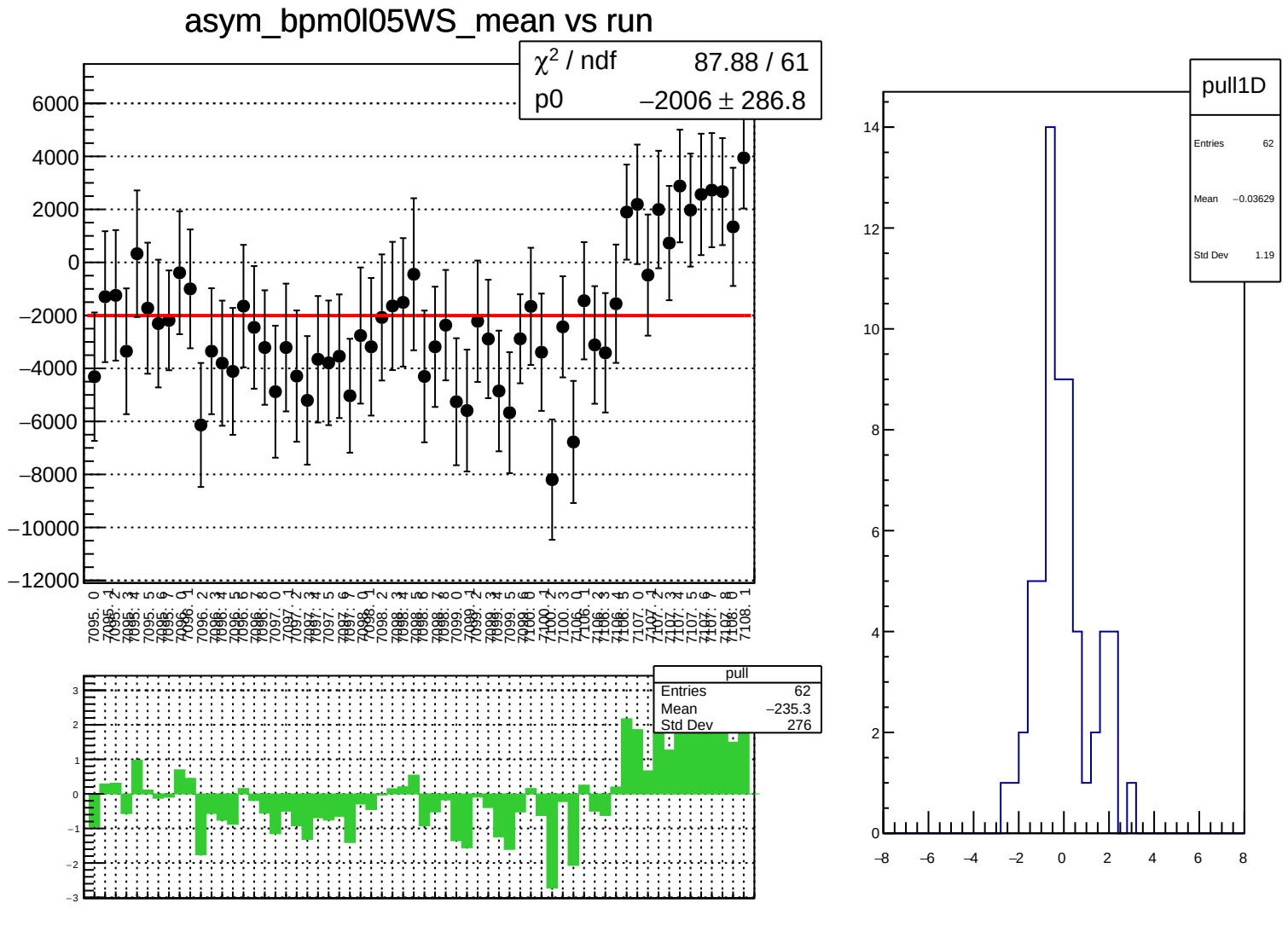

pull1D
Entries 62
Mean 0.01147
Std Dev 1.021

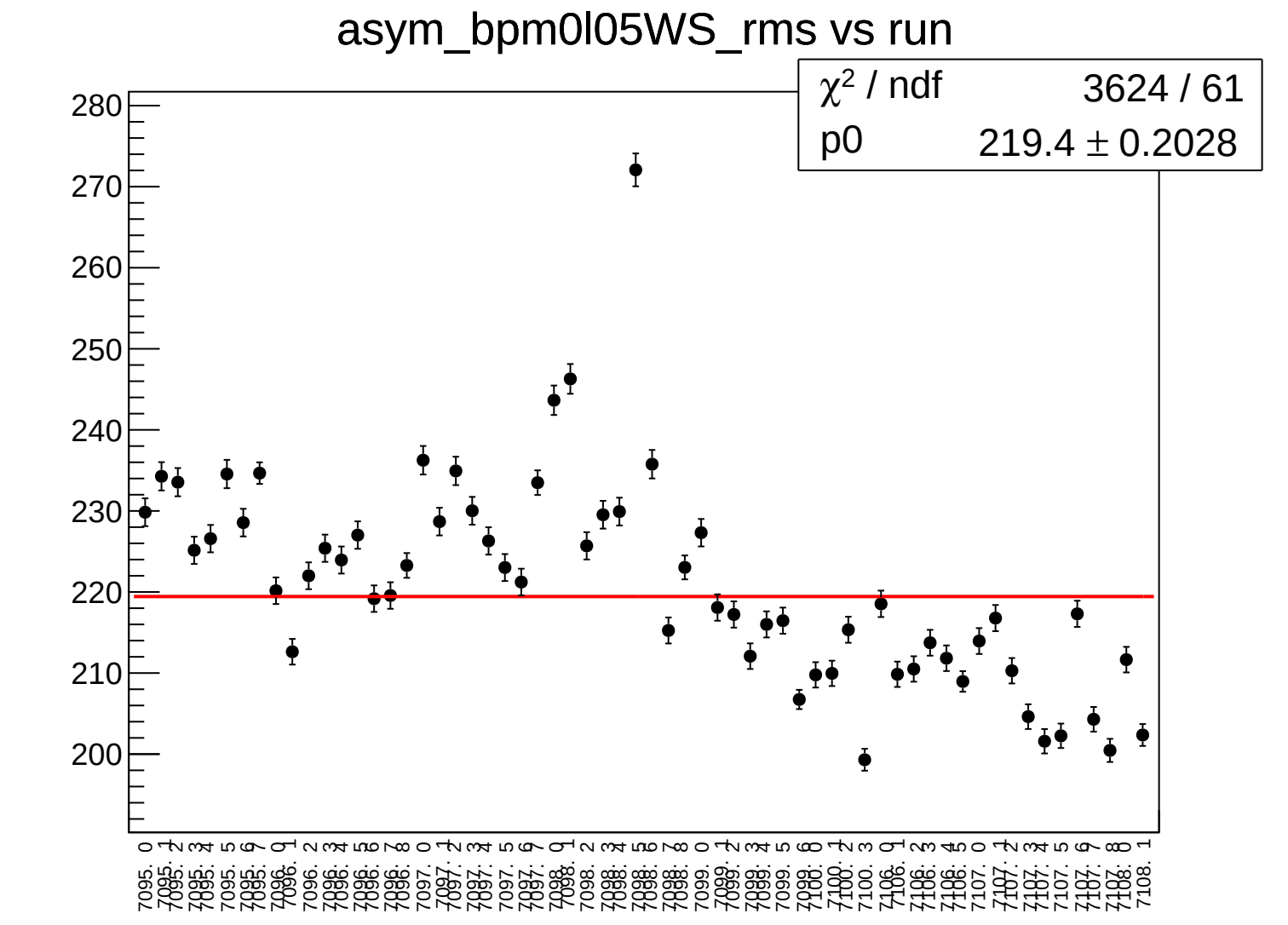

asym_bpm0l03WS_rms vs run
χ² / ndf 4.536e+04 / 61
p0 1190 ± 1.12
2800
2600
2400
2200
2000
1800
1600
1400
1200
1000
800
600
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

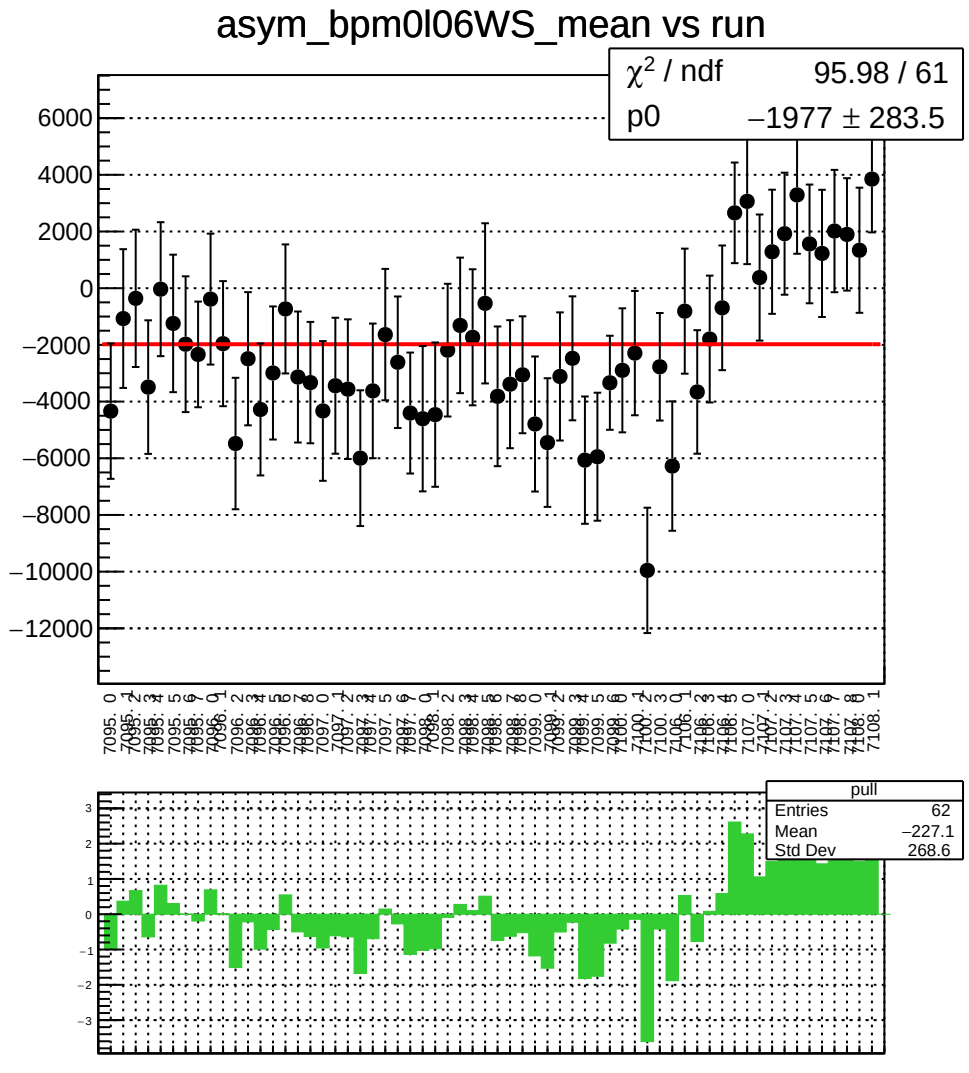

asym_bpm0l04WS_mean vs run
χ² / ndf 89.38 / 61
p0 −1911 ± 279.6
pull
Entries 62
Mean −270.6
Std Dev 311.2

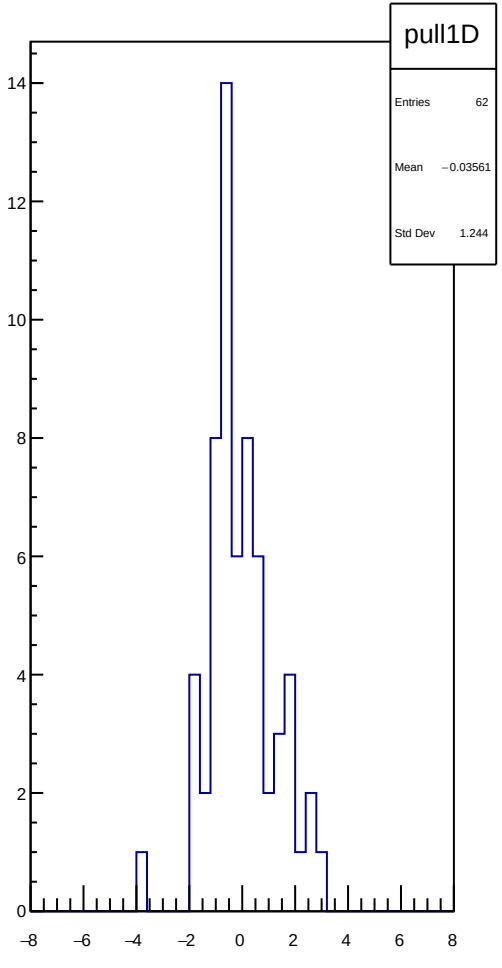

pull1D
Entries 62
Mean −0.03087
Std Dev 1.2

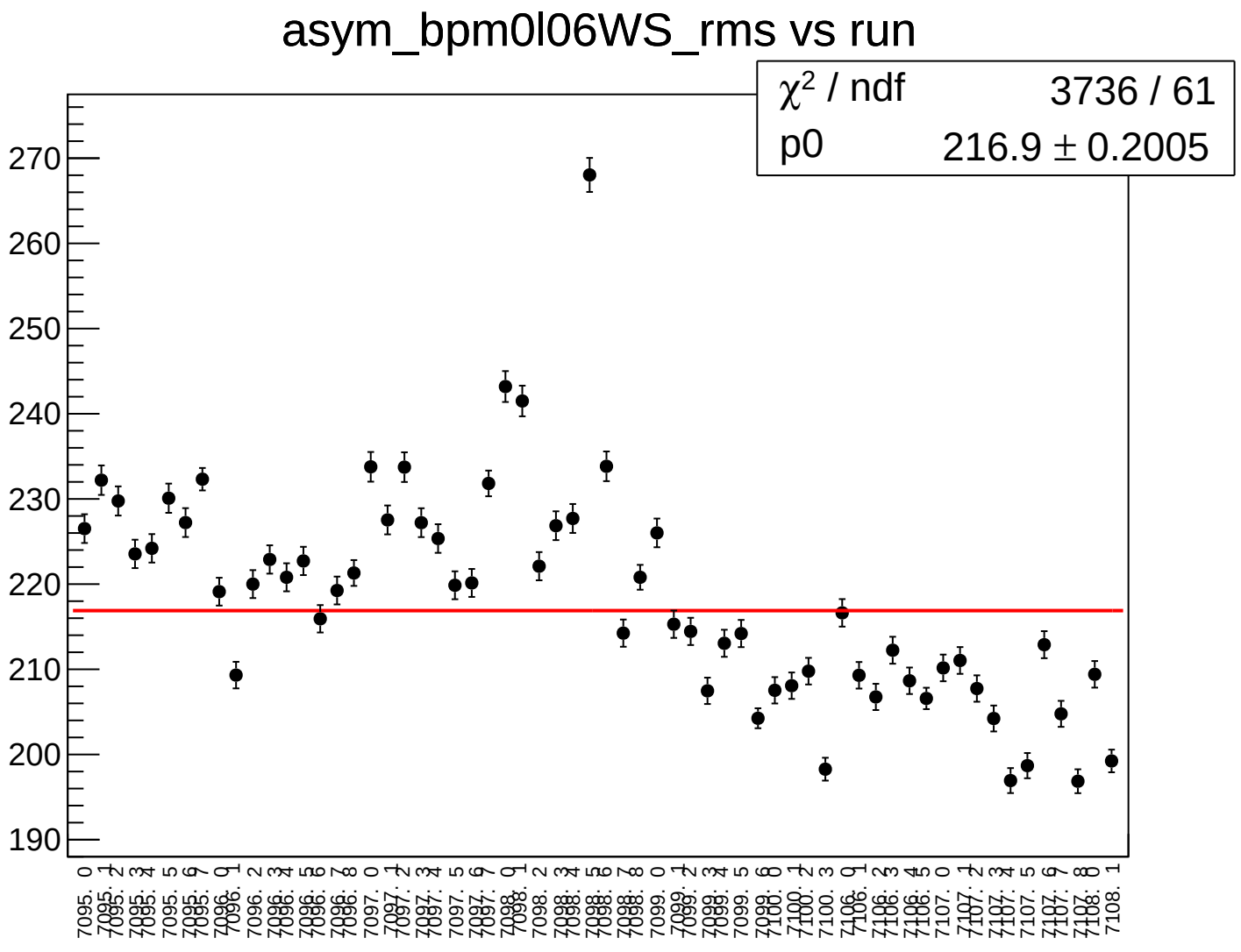

asym_bpm0l04WS_rms vs run
χ² / ndf 3543 / 61
p0 213.9 ± 0.1977
270
260
250
240
230
220
210
200
190
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

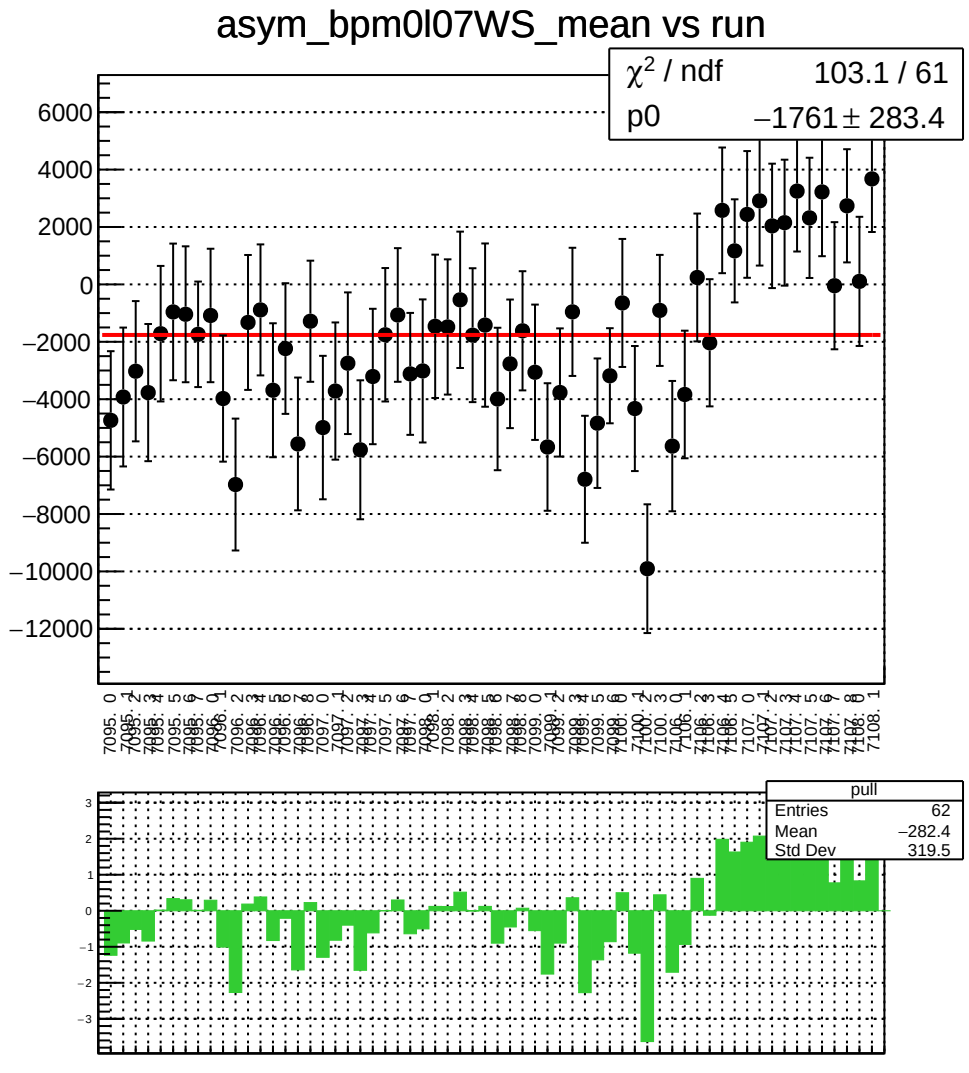

asym_bpm0l05WS_mean vs run
χ² / ndf 87.88 / 61
p0 −2006 ± 286.8
pull
Entries 62
Mean −235.3
Std Dev 276
pull1D
Entries 62
Mean −0.03629
Std Dev 1.19

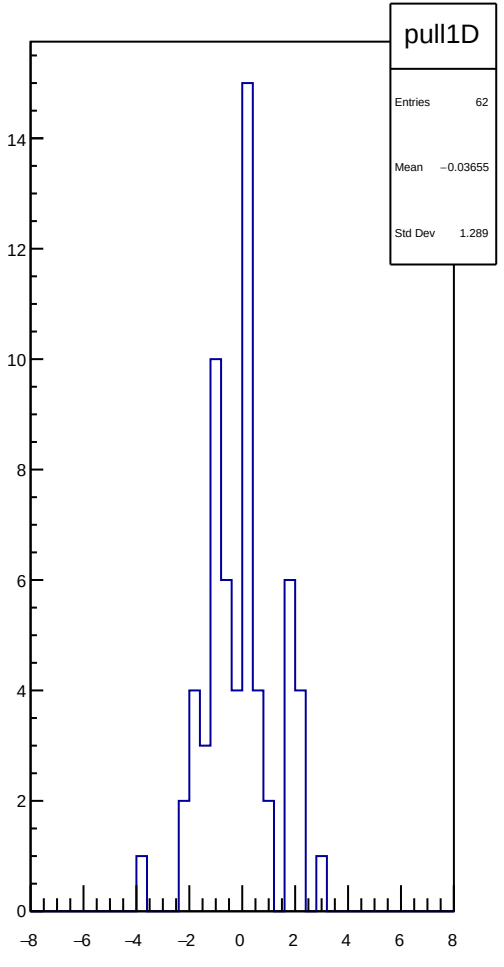

asym_bpm0l05WS_rms vs run
χ² / ndf 3624 / 61
p0 219.4 ± 0.2028
280
270
260
250
240
230
220
210
200
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 8
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

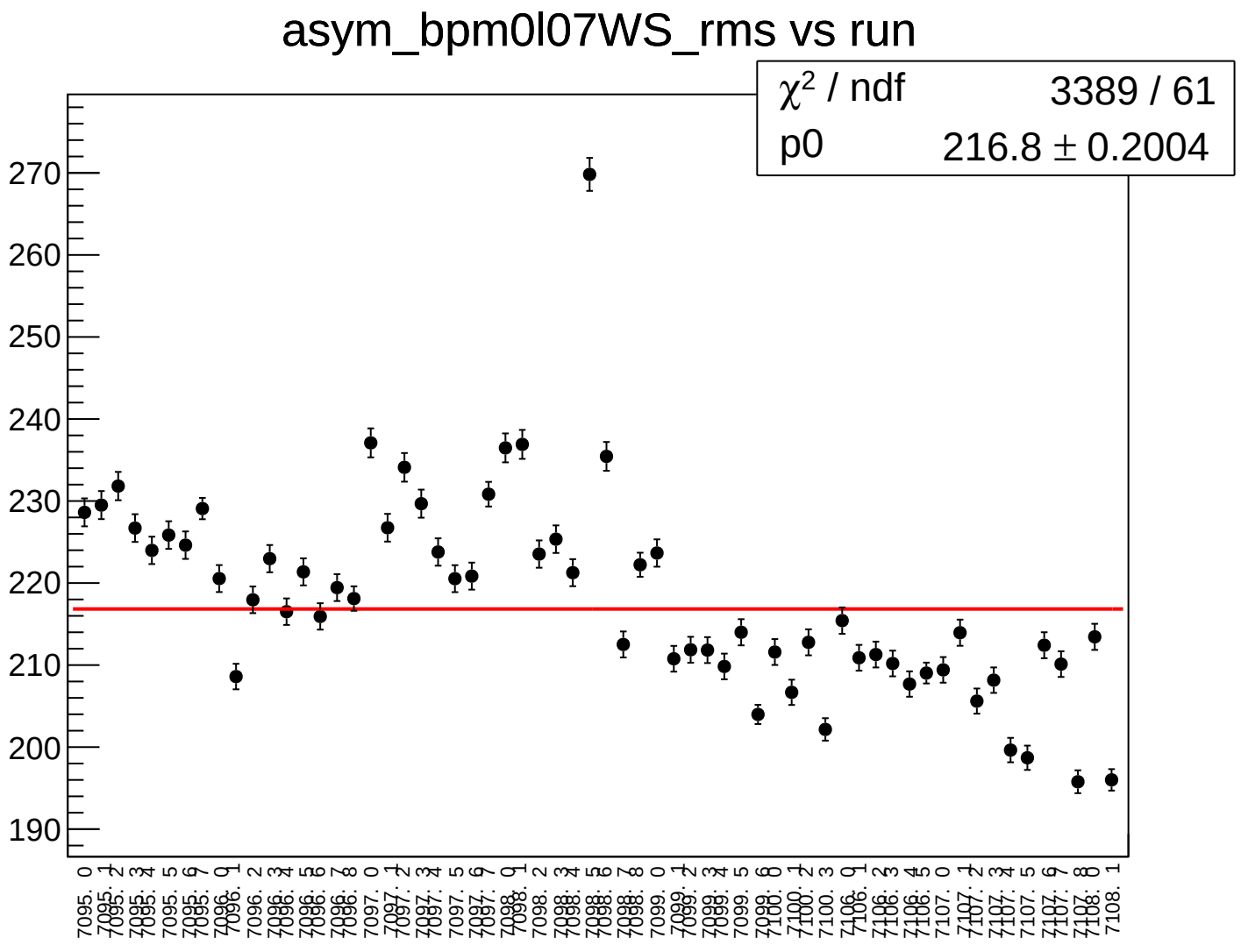

asym_bpm0l06WS_mean vs run
χ² / ndf 95.98 / 61
p0 −1977 ± 283.5
pull
Entries 62
Mean −227.1
Std Dev 268.6

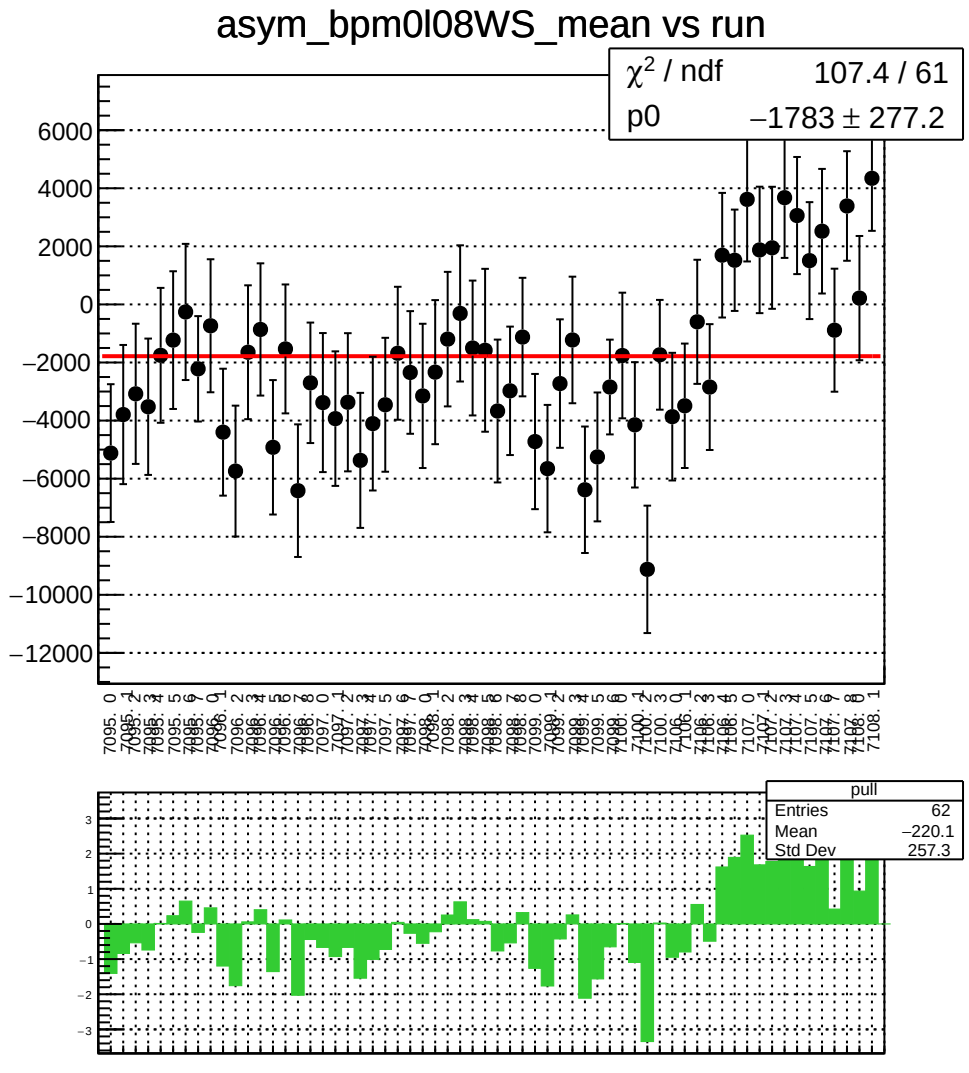

pull1D
Entries 62
Mean −0.03561
Std Dev 1.244

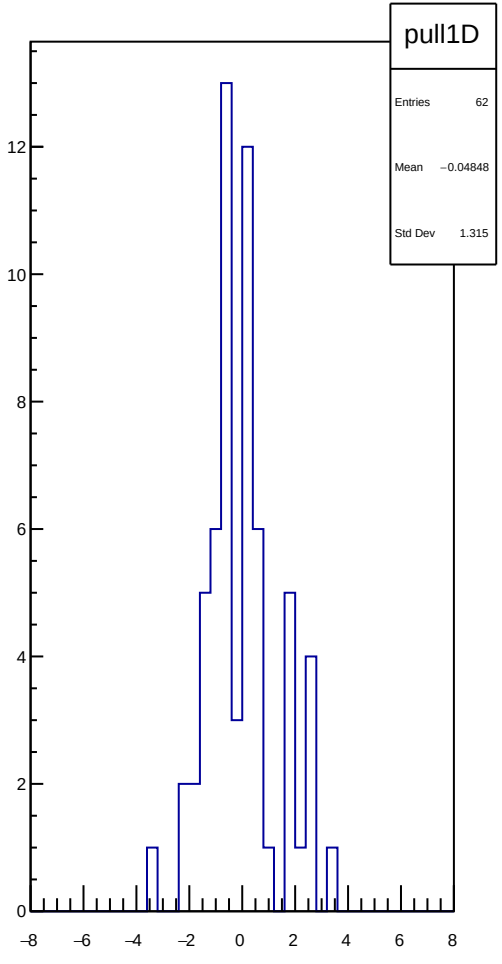

asym_bpm0l06WS_rms vs run
χ² / ndf 3736 / 61
p0 216.9 ± 0.2005
270
260
250
240
230
220
210
200
190

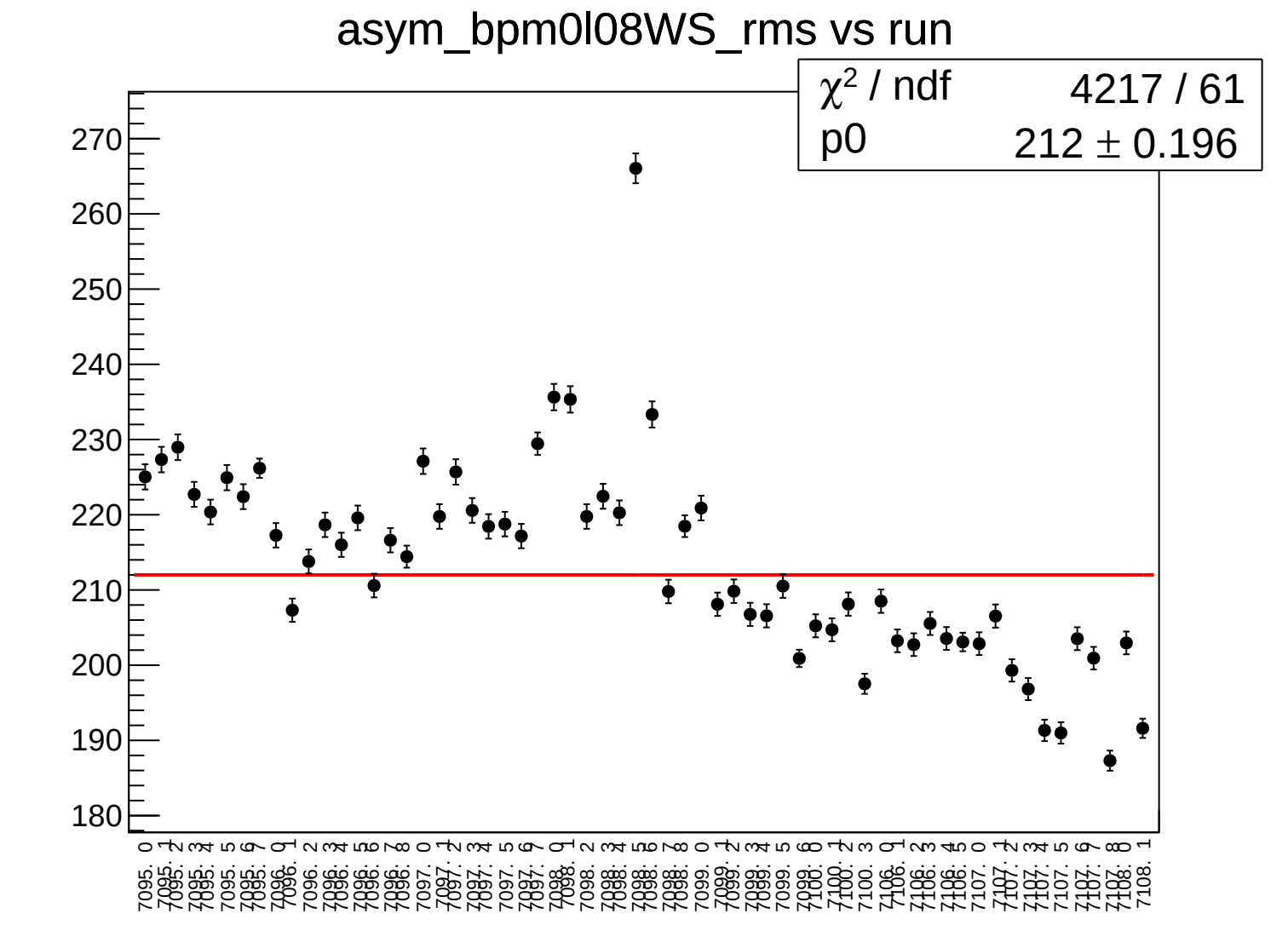

asym_bpm0l07WS_mean vs run
χ² / ndf 103.1 / 61
p0 −1761 ± 283.4
pull
Entries 62
Mean −282.4
Std Dev 319.5

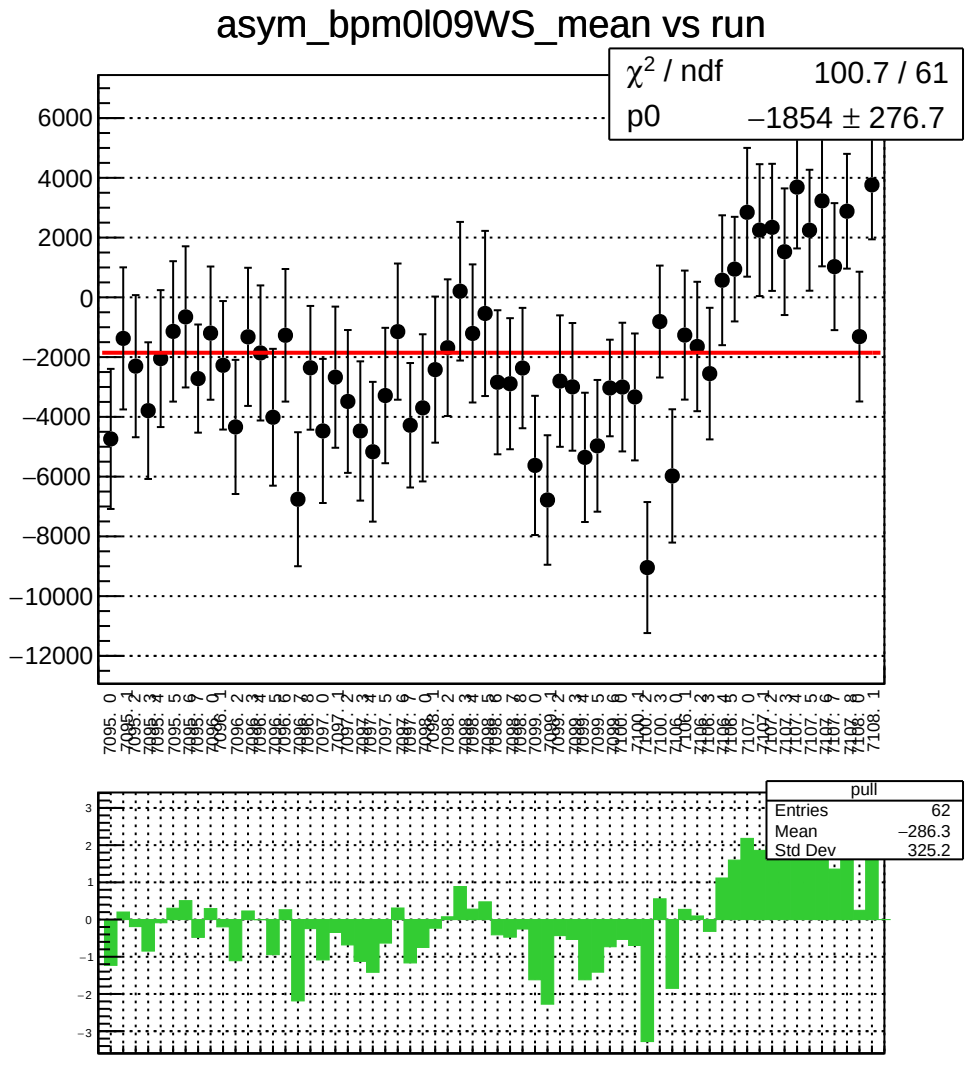

pull1D
Entries 62
Mean −0.03655
Std Dev 1.289

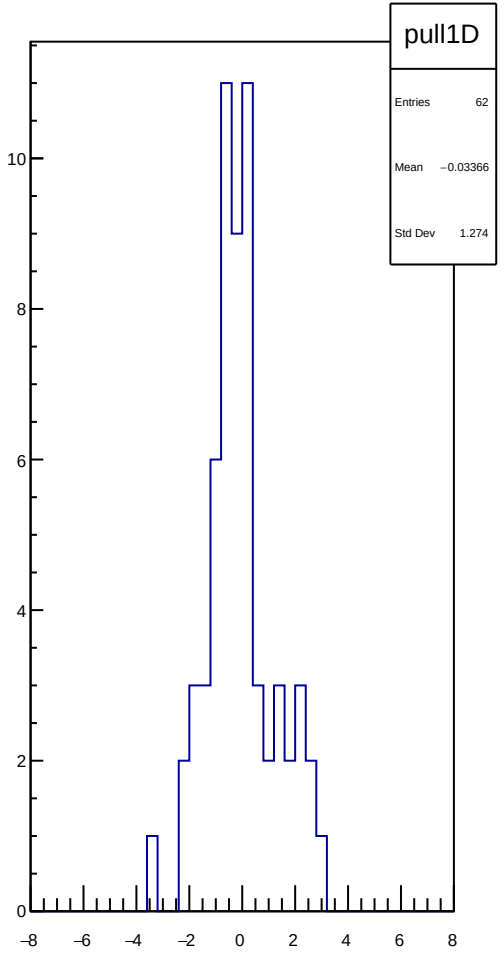

asym_bpm0l07WS_rms vs run
χ² / ndf 3389 / 61
p0 216.8 ± 0.2004
270
260
250
240
230
220
210
200
190

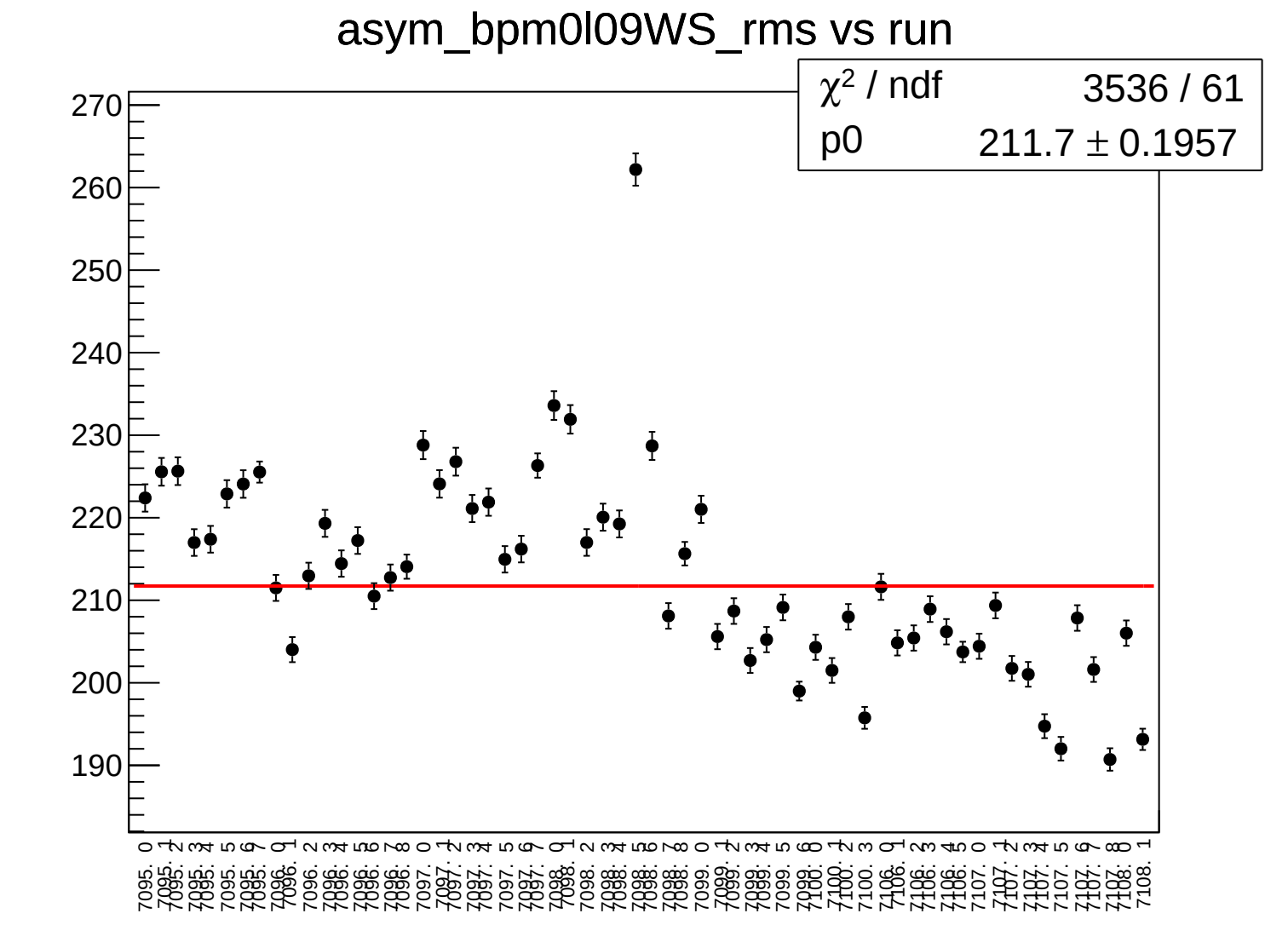

asym_bpm0l08WS_mean vs run
χ² / ndf 107.4 / 61
p0 −1783 ± 277.2
pull
Entries 62
Mean −220.1
Std Dev 257.3

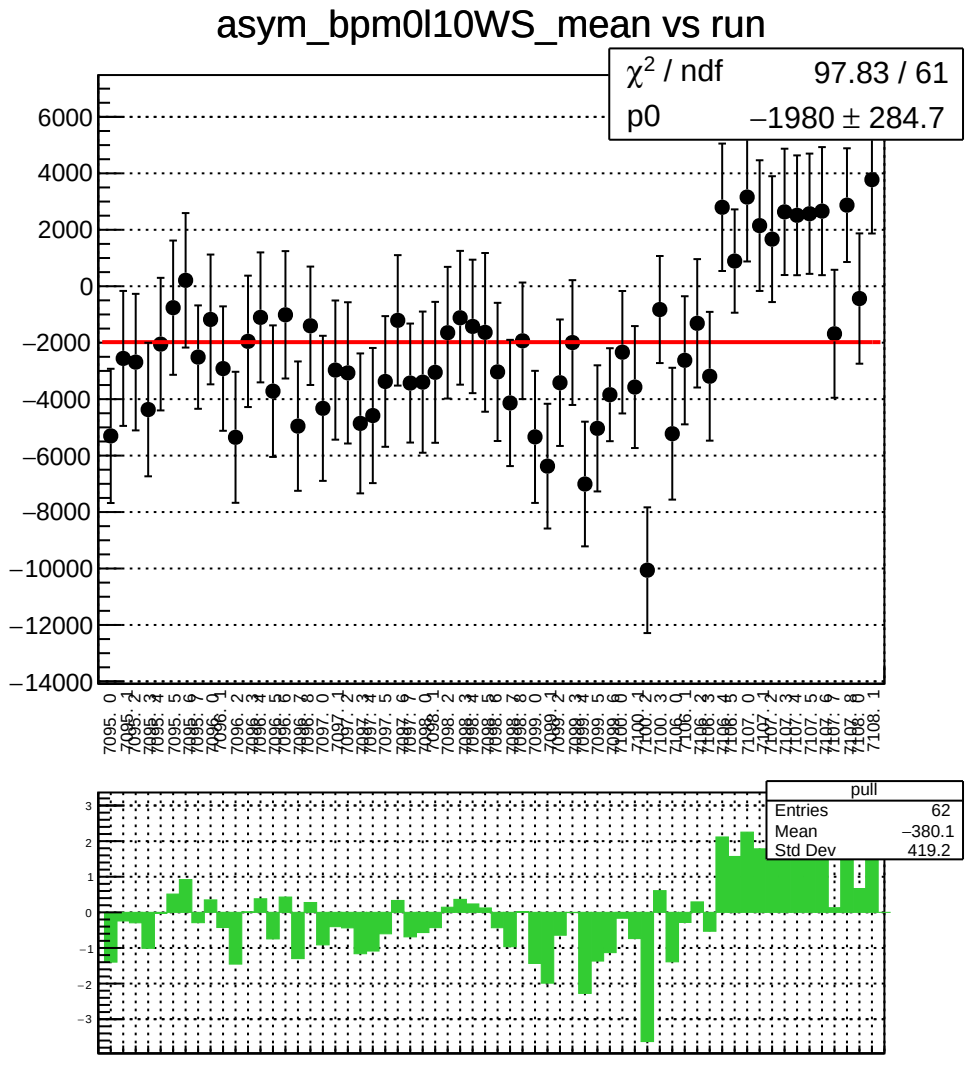

pull1D
Entries 62
Mean −0.04848
Std Dev 1.315

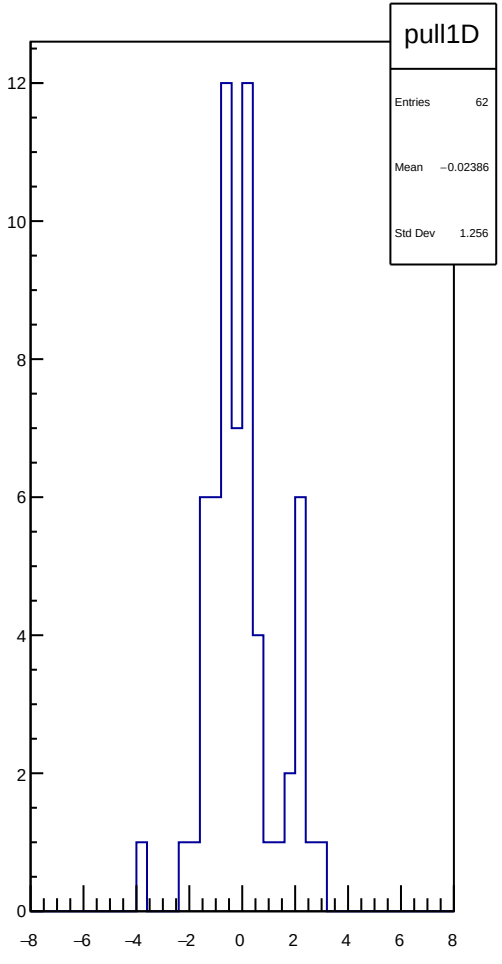

asym_bpm0l08WS_rms vs run
χ² / ndf 4217 / 61
p0 212 ± 0.196
270
260
250
240
230
220
210
200
190
180

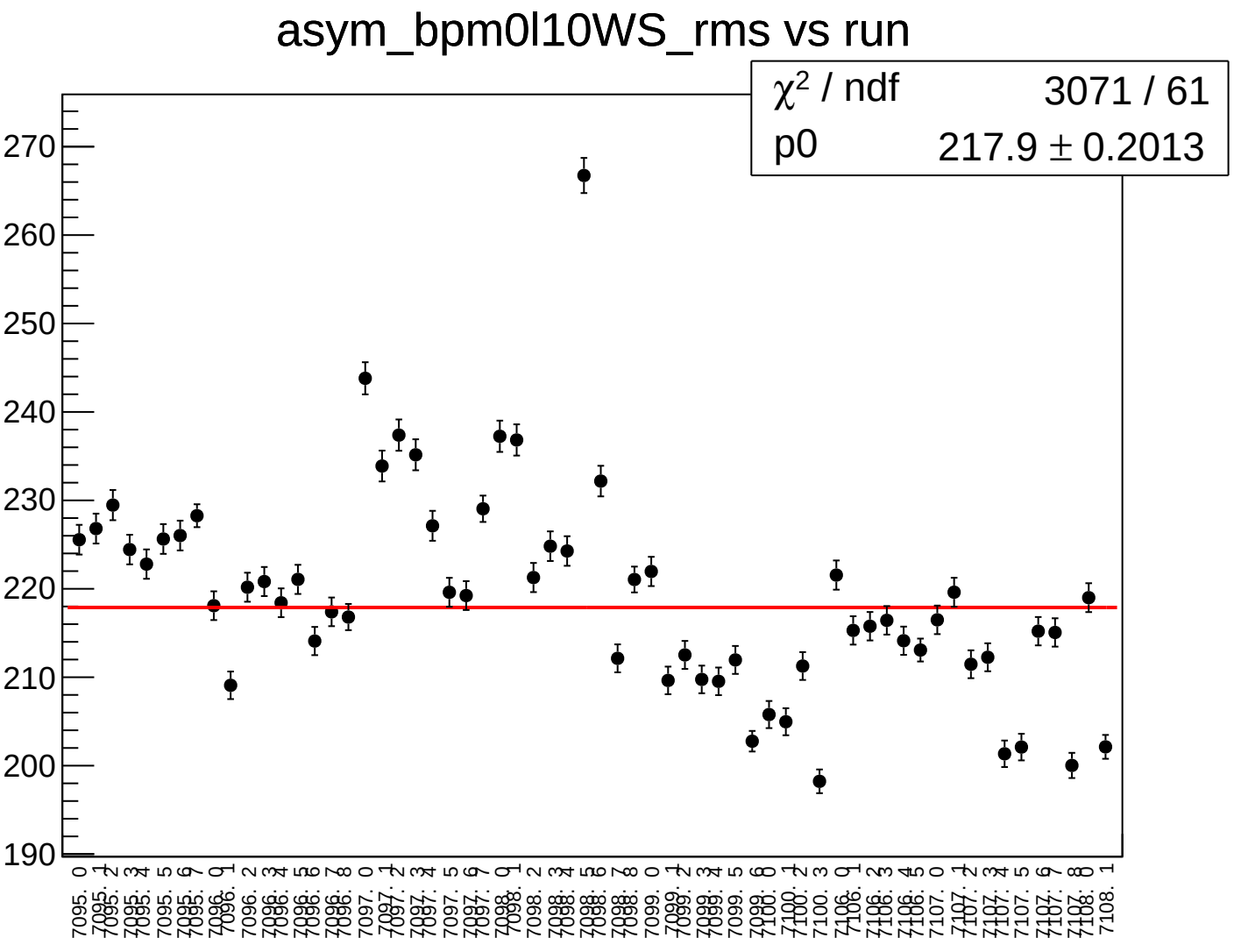

asym_bpm0l09WS_mean vs run
χ² / ndf 100.7 / 61
p0 −1854 ± 276.7
pull
Entries 62
Mean −286.3
Std Dev 325.2

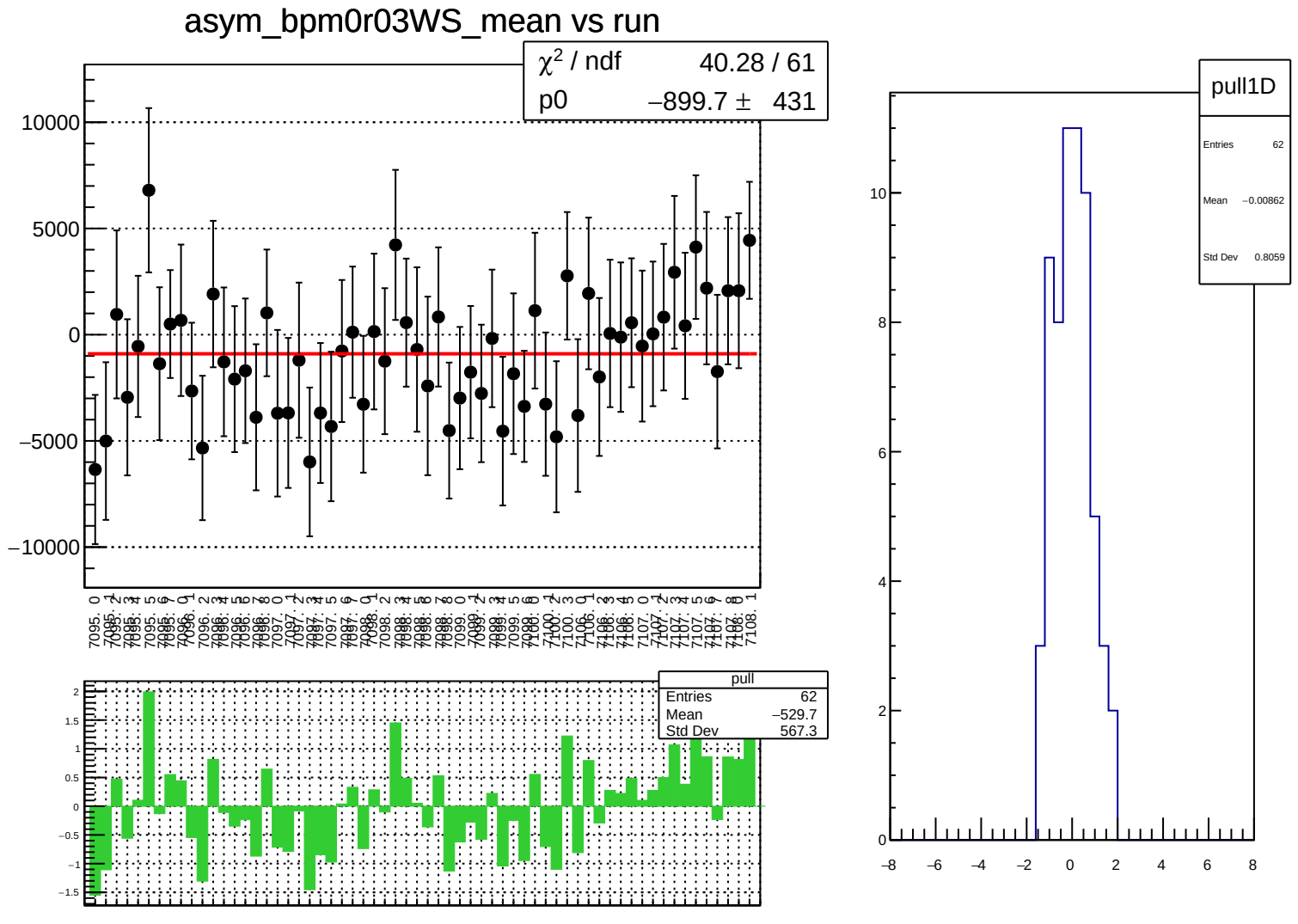

pull1D
Entries 62
Mean −0.03366
Std Dev 1.274

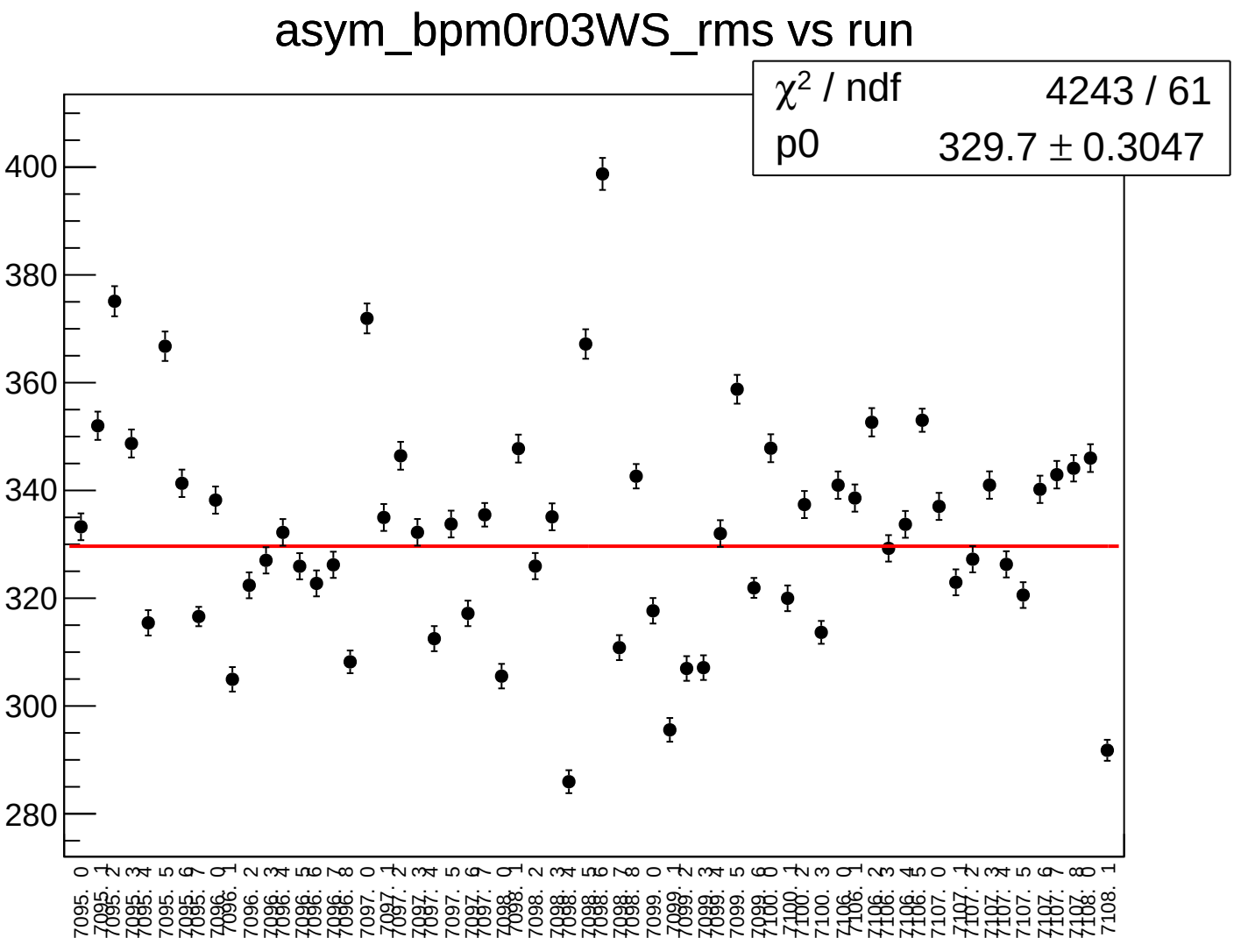

asym_bpm0l09WS_rms vs run
χ² / ndf 3536 / 61
p0 211.7 ± 0.1957
270
260
250
240
230
220
210
200
190


asym_bpm0l10WS_mean vs run
χ² / ndf 97.83 / 61
p0 −1980 ± 284.7
pull
Entries 62
Mean −380.1
Std Dev 419.2


pull1D
Entries 62
Mean −0.02386
Std Dev 1.256


asym_bpm0l10WS_rms vs run
χ² / ndf 3071 / 61
p0 217.9 ± 0.2013
270
260
250
240
230
220
210
200
190


asym_bpm0r03WS_mean vs run
χ² / ndf 40.28 / 61
p0 −899.7 ± 431
10000
5000
0
−5000
−10000
pull
Entries 62
Mean −529.7
Std Dev 567.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 62
Mean −0.00862
Std Dev 0.8059
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r03WS_rms vs run
χ² / ndf 4243 / 61
p0 329.7 ± 0.3047
400
380
360
340
320
300
280
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
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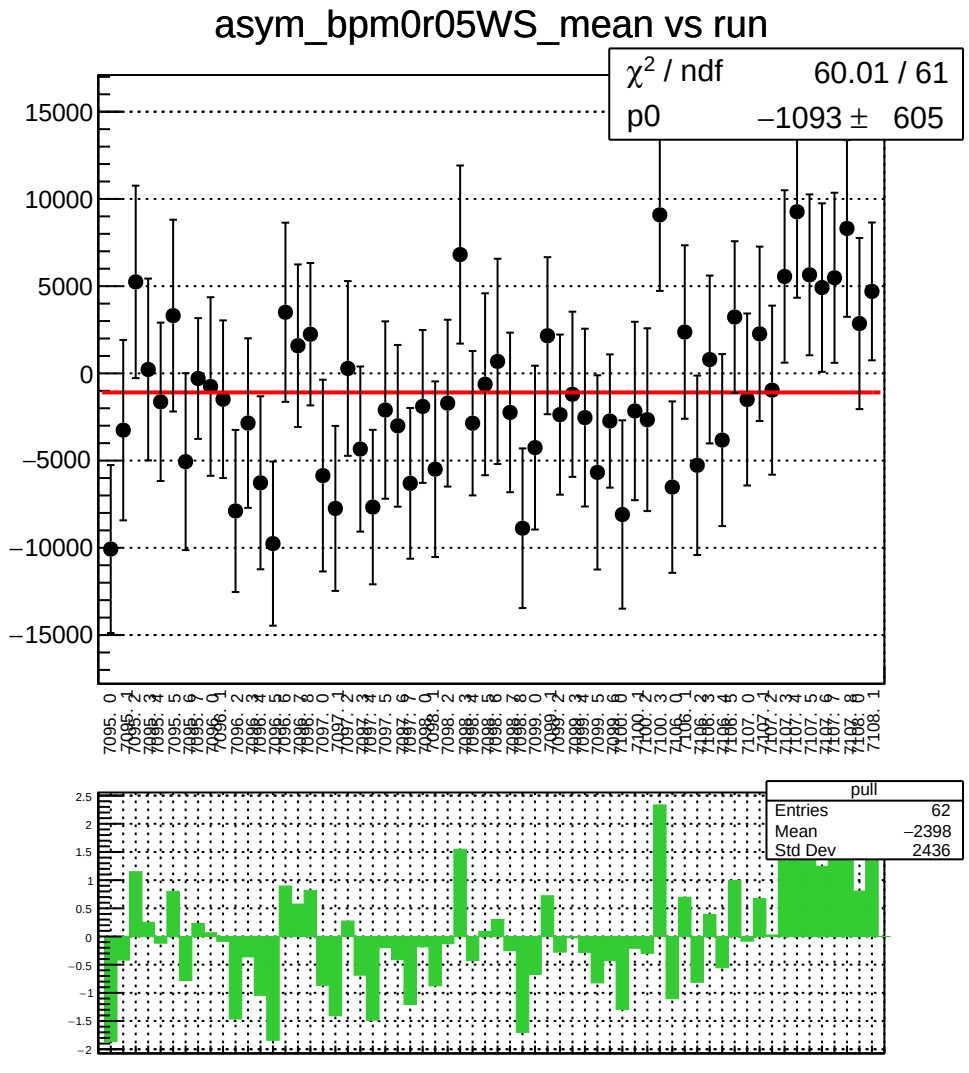
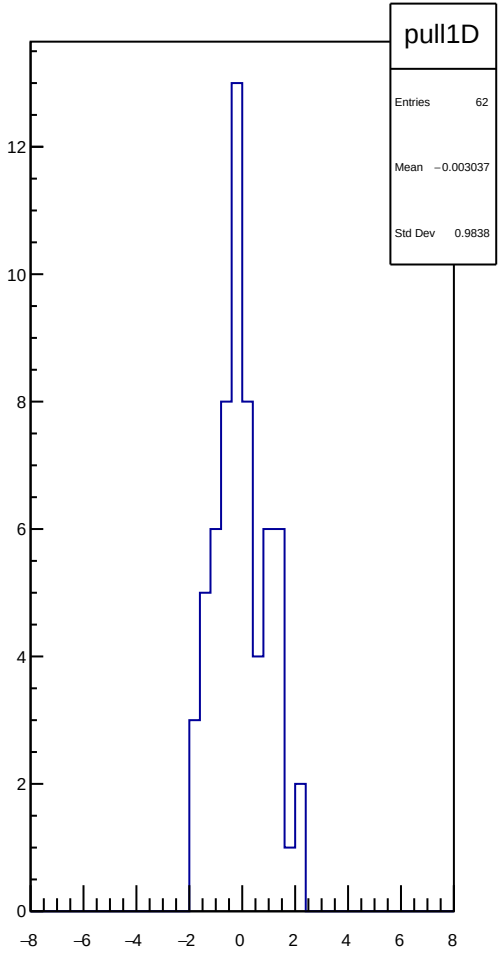
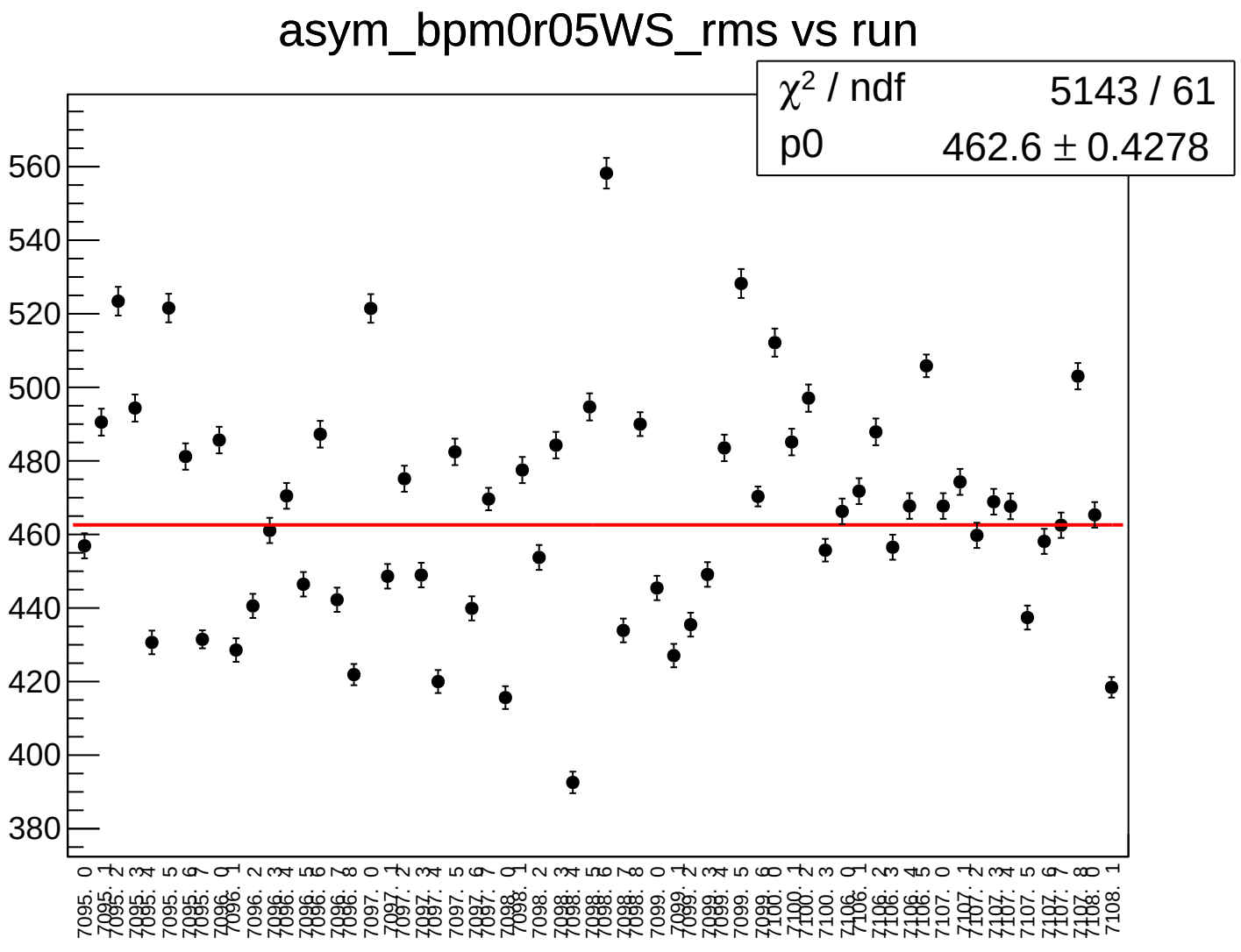
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1


asym_bpm0r05WS_mean vs run
χ² / ndf 60.01 / 61
p0 −1093 ± 605
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 62
Mean −2398
Std Dev 2436
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2


pull1D
Entries 62
Mean −0.003037
Std Dev 0.9838
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm0r05WS_rms vs run
χ² / ndf 5143 / 61
p0 462.6 ± 0.4278
560
540
520
500
480
460
440
420
400
380
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
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7097. 6
7097. 7
7097. 8
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7098. 2
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7106. 1
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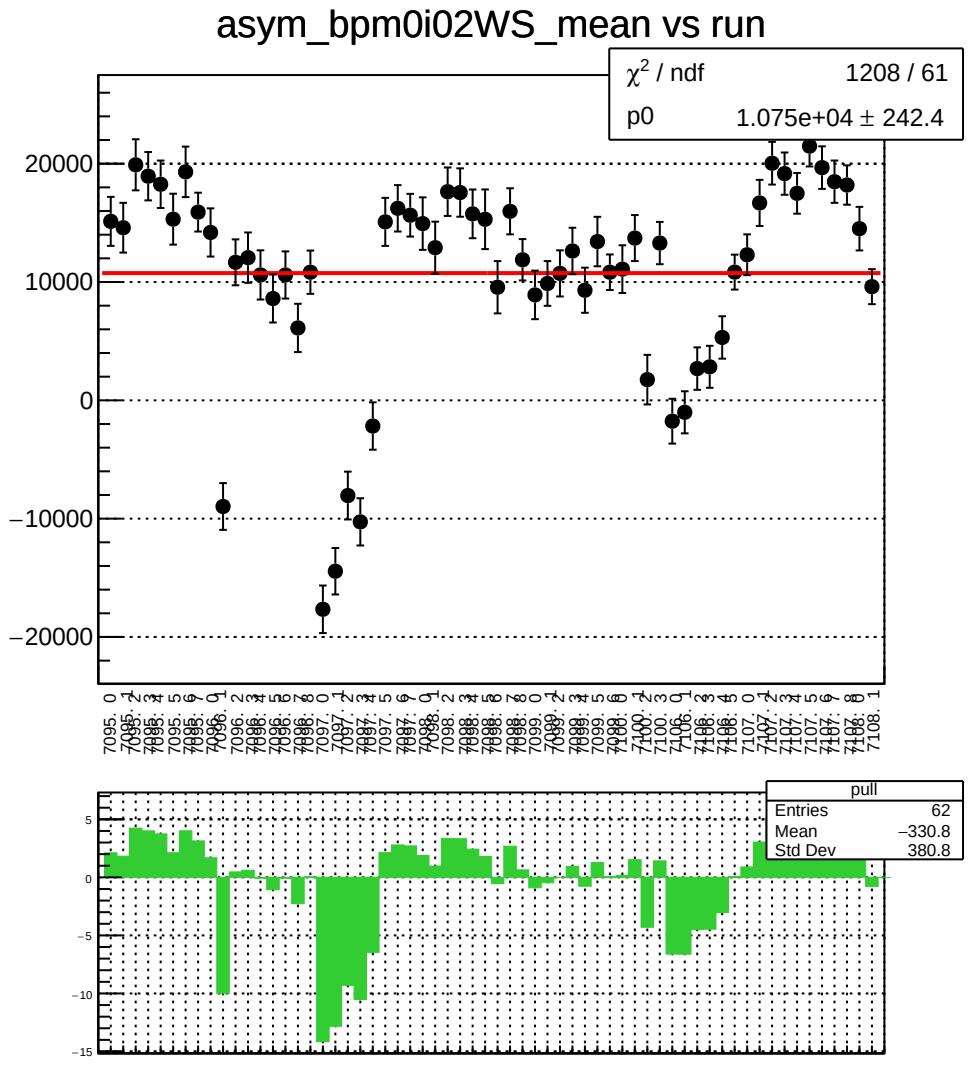
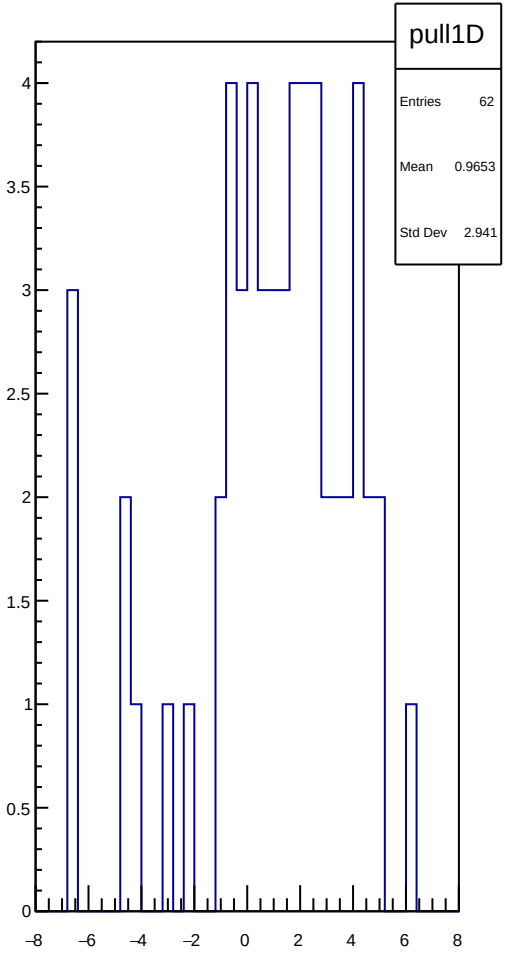
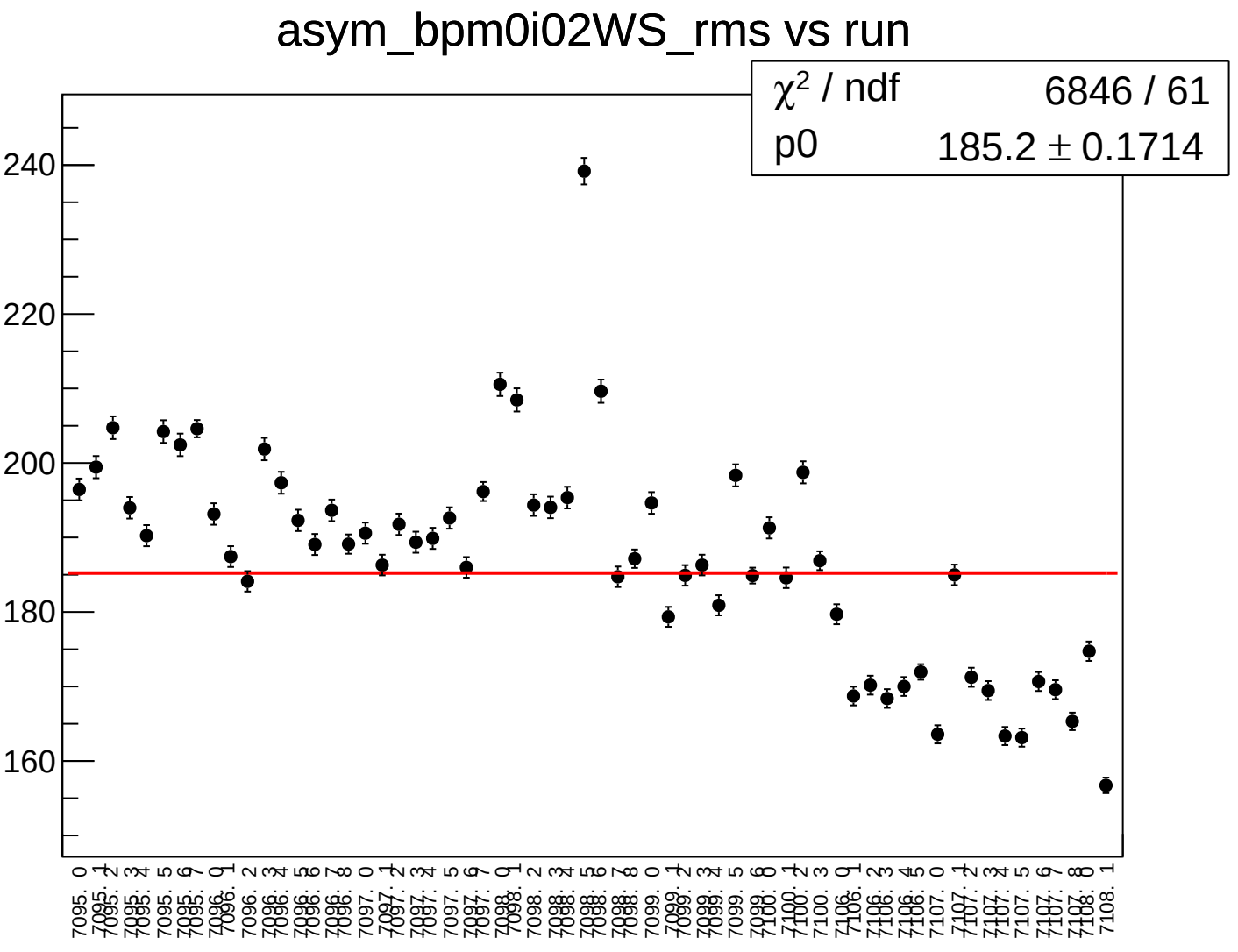
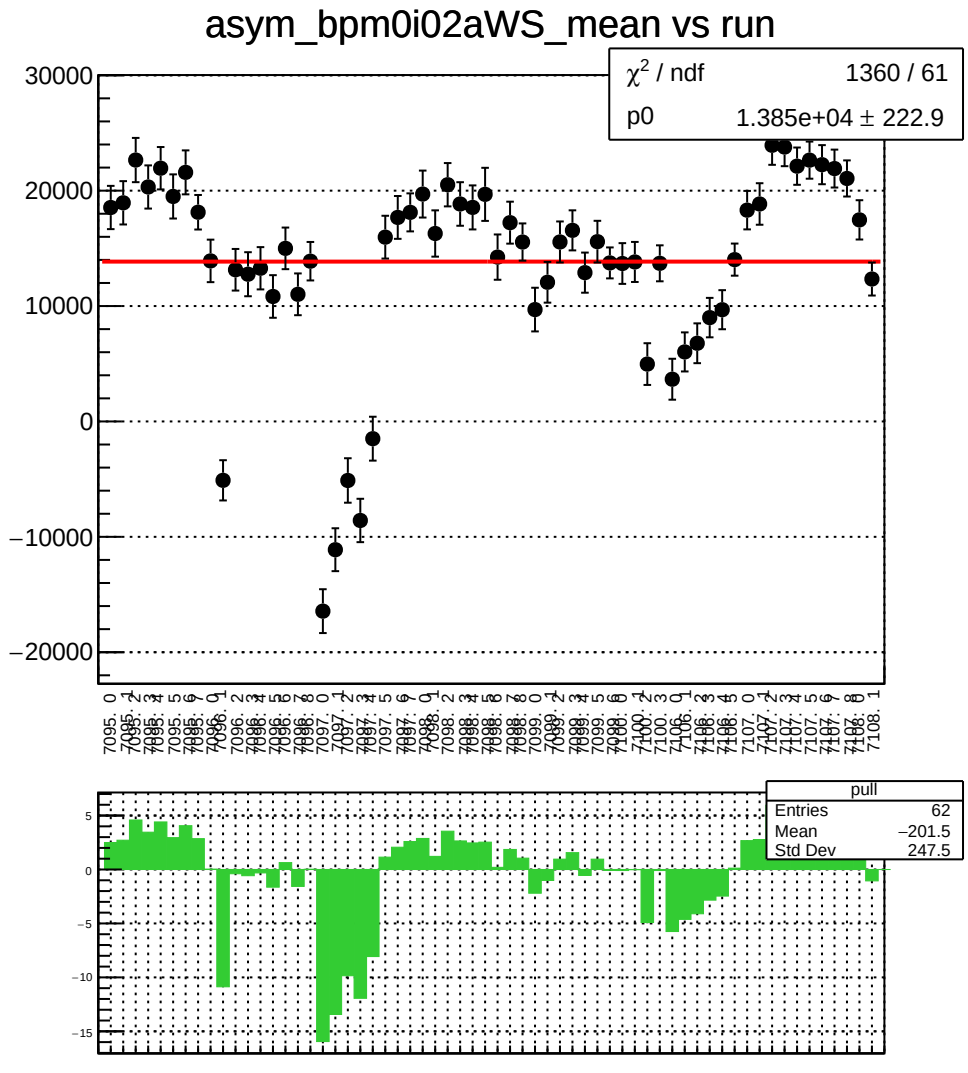
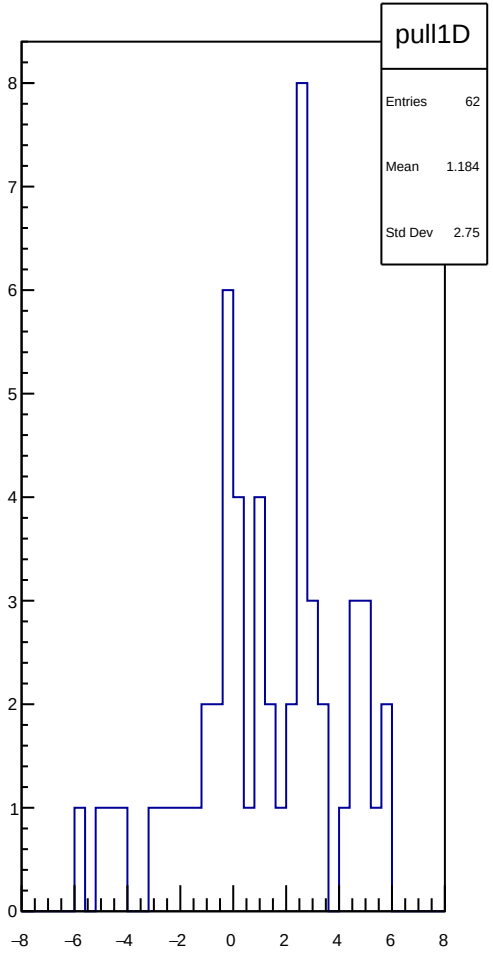
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

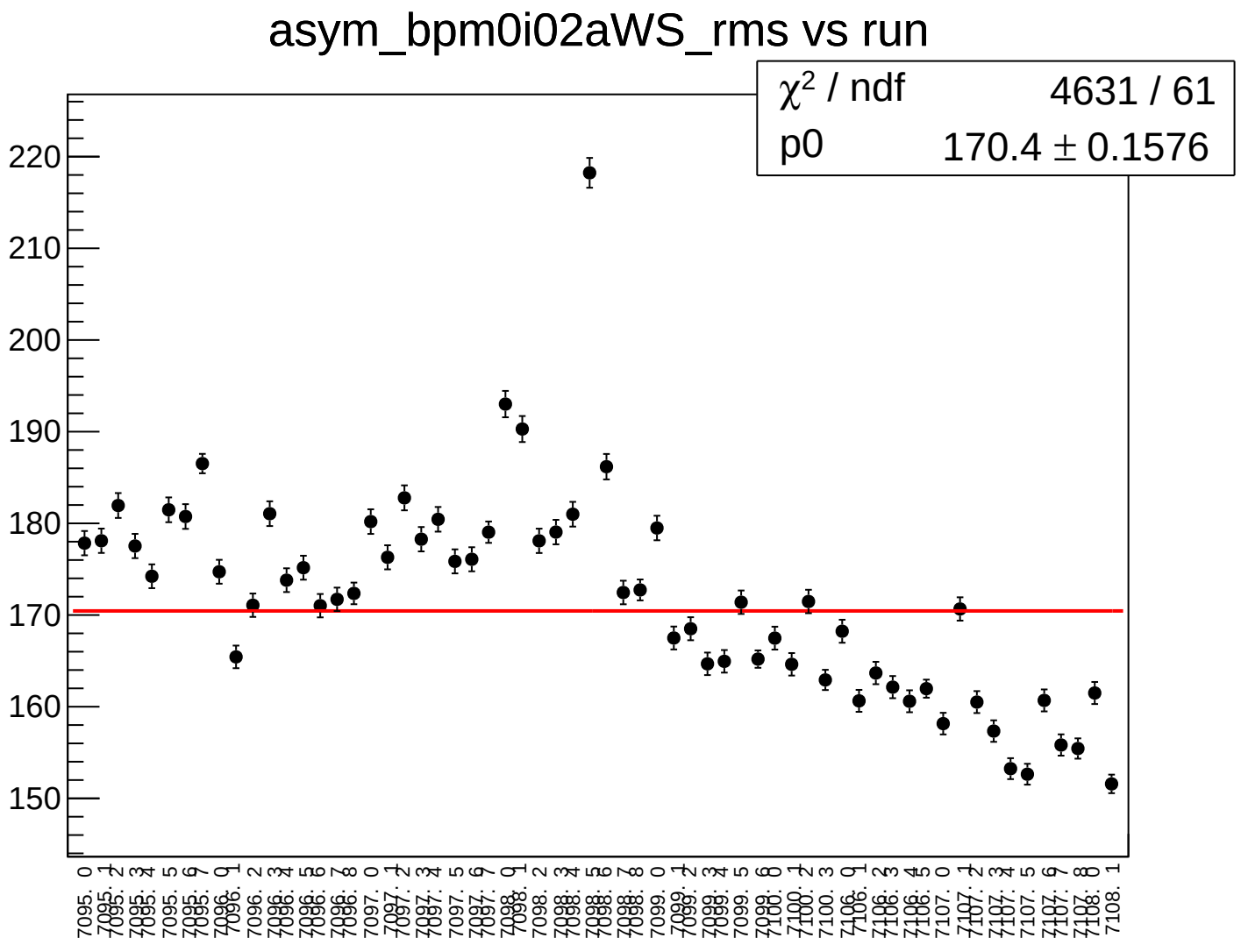

asym_bpm0i02WS_mean vs run
χ² / ndf 1208 / 61
p0 1.075e+04 ± 242.4
20000
10000
0
−10000
−20000
pull
Entries 62
Mean −330.8
Std Dev 380.8
5
0
−5
−10
−15

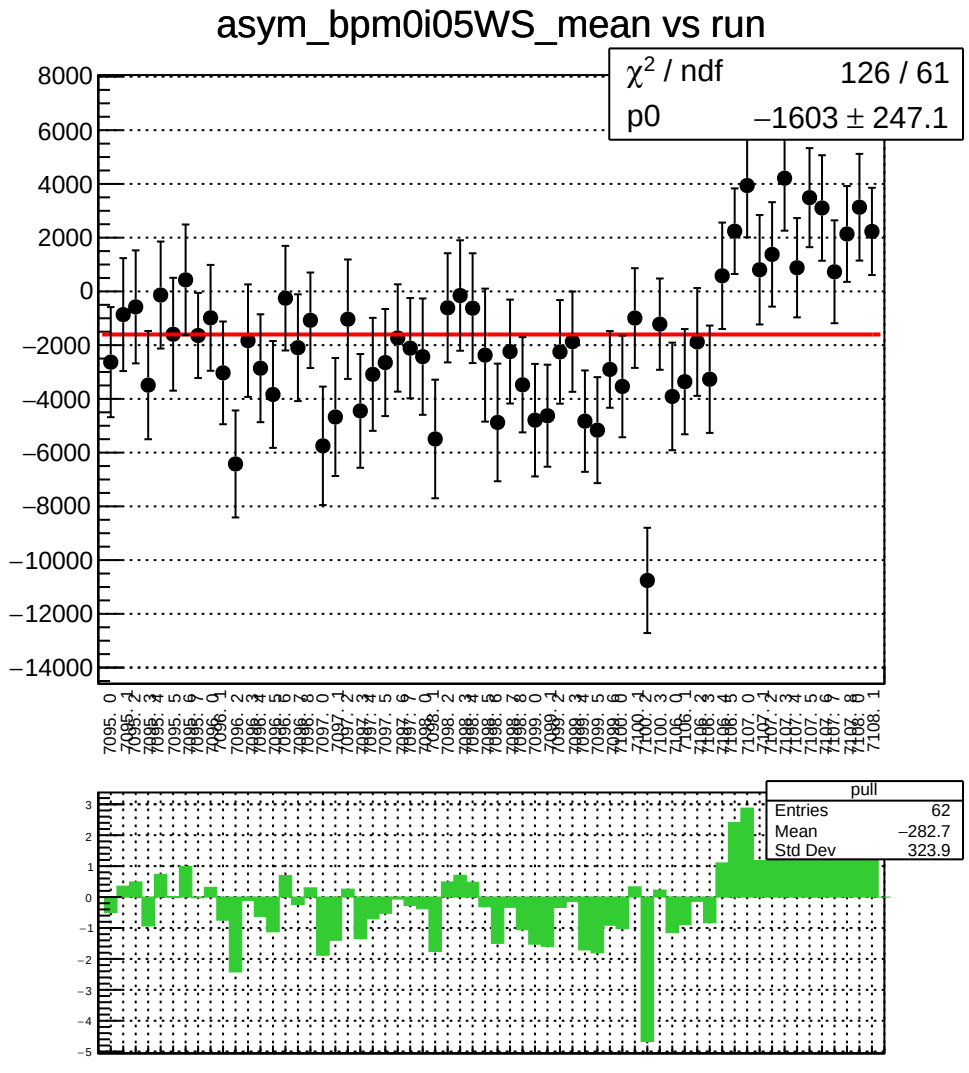

pull1D
Entries 62
Mean 0.9653
Std Dev 2.941
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

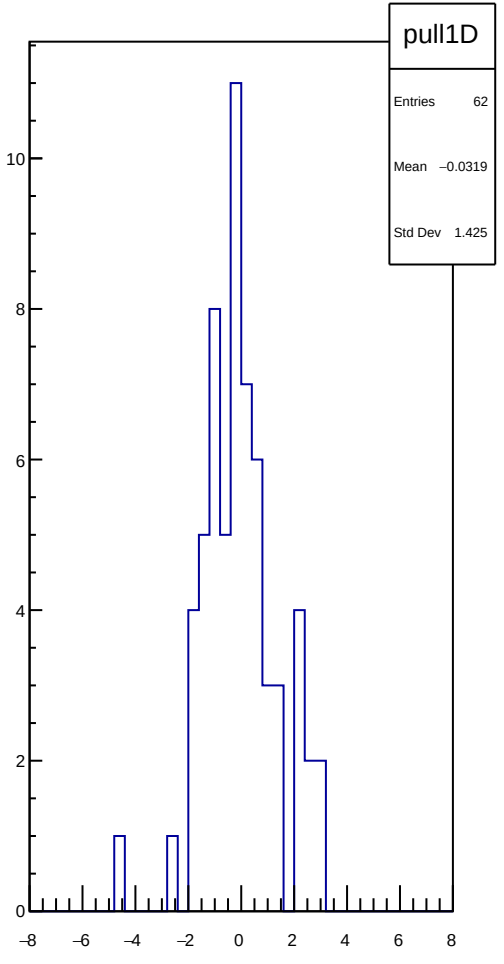

asym_bpm0i02WS_rms vs run
χ² / ndf 6846 / 61
p0 185.2 ± 0.1714
240
220
200
180
160
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

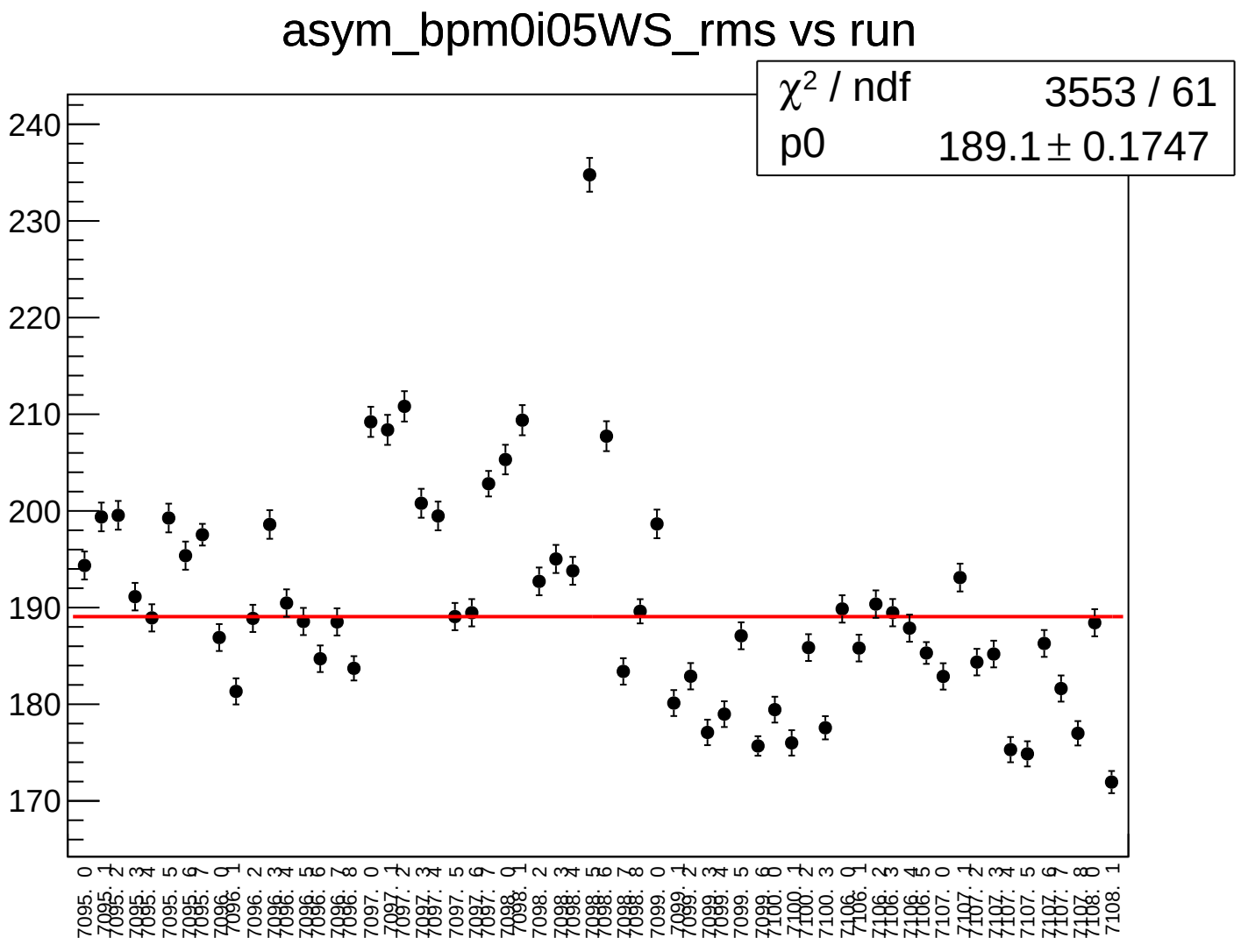

asym_bpm0i02aWS_mean vs run
χ² / ndf 1360 / 61
p0 1.385e+04 ± 222.9
pull
Entries 62
Mean −201.5
Std Dev 247.5

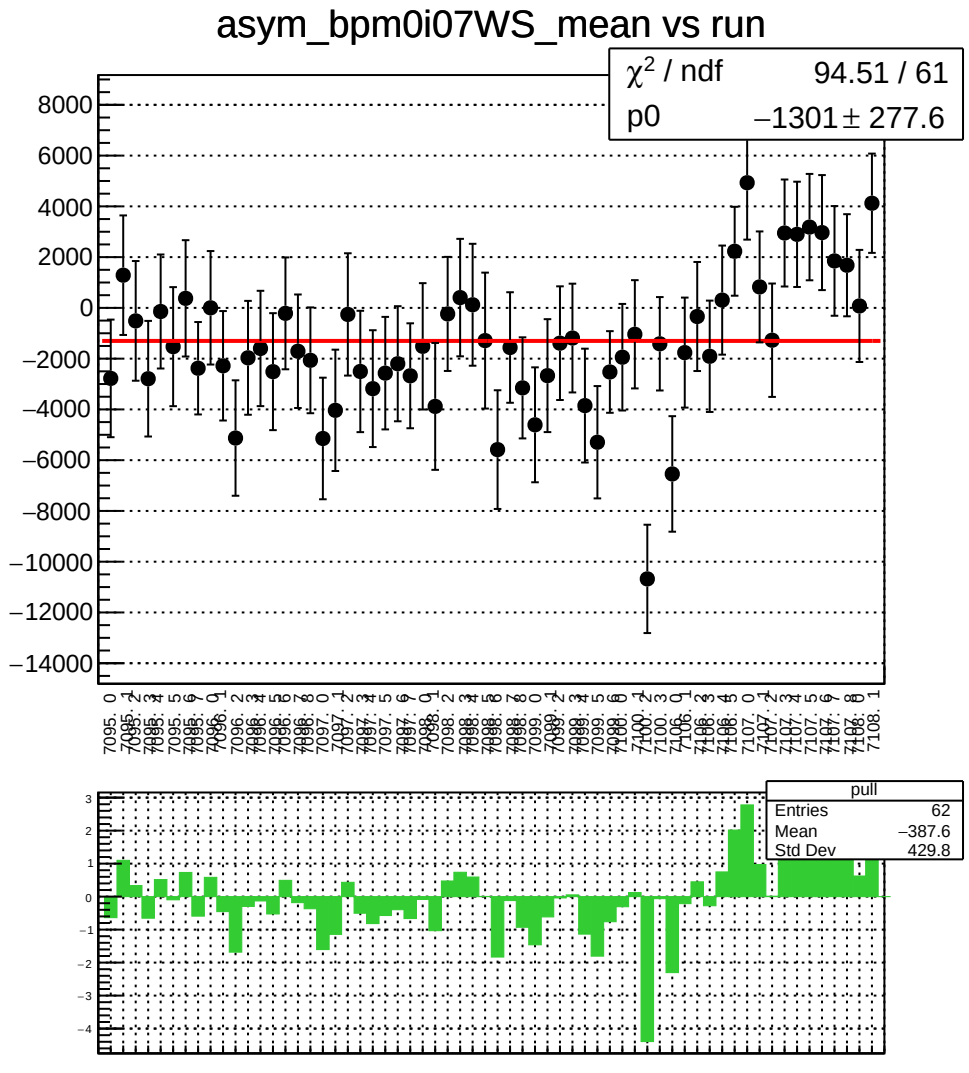

pull1D
Entries 62
Mean 1.184
Std Dev 2.75

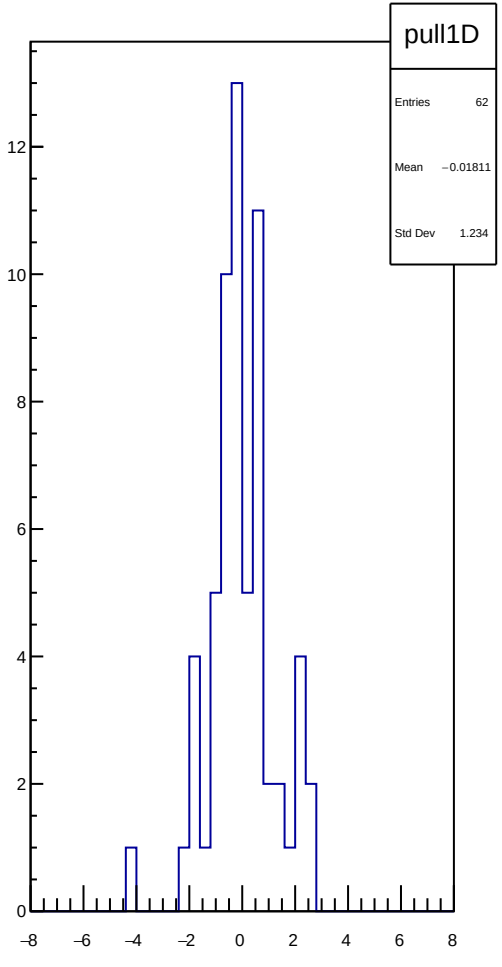

asym_bpm0i02aWS_rms vs run
χ² / ndf 4631 / 61
p0 170.4 ± 0.1576
220
210
200
190
180
170
160
150

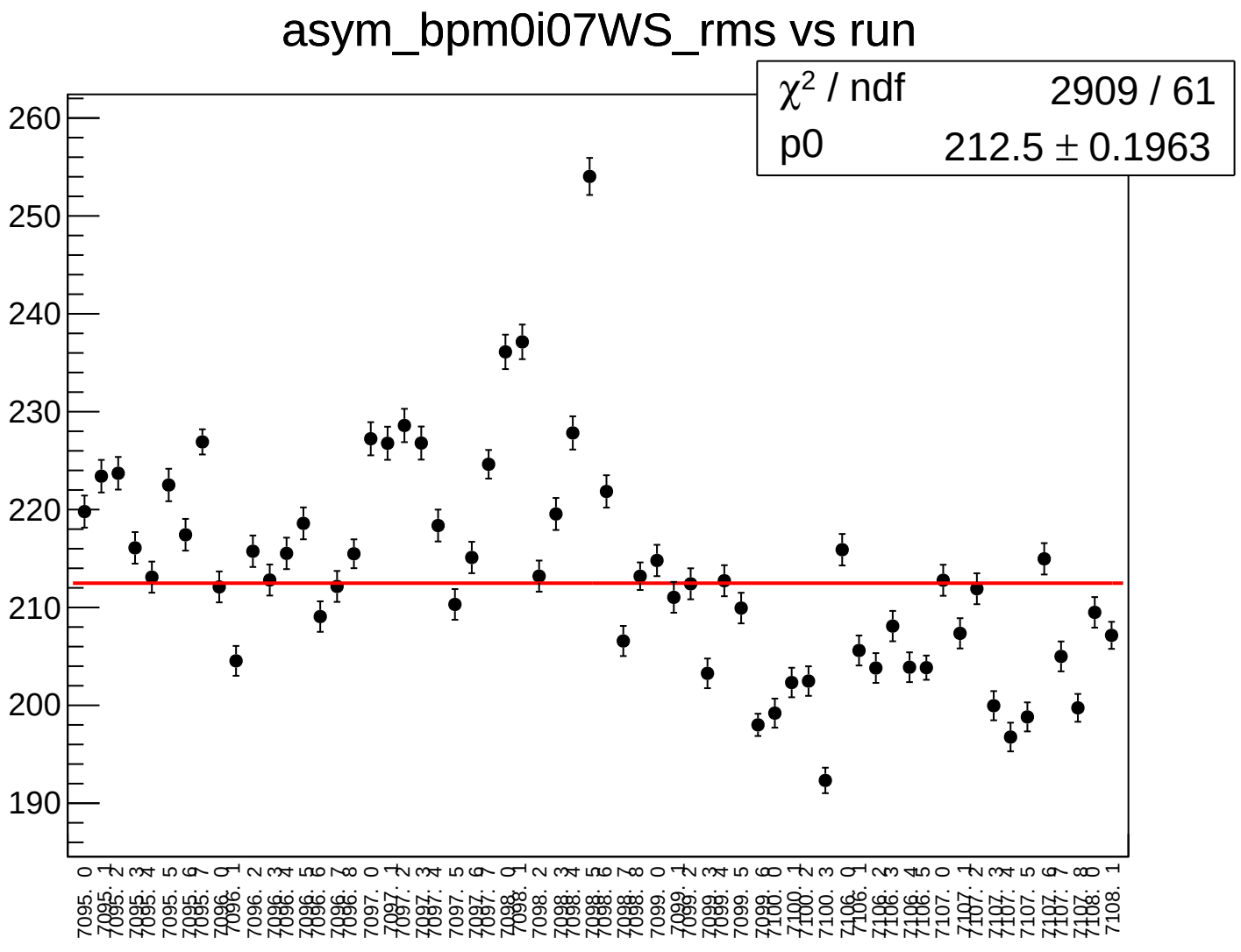

asym_bpm0i05WS_mean vs run
χ² / ndf 126 / 61
p0 −1603 ± 247.1
pull
Entries 62
Mean −282.7
Std Dev 323.9

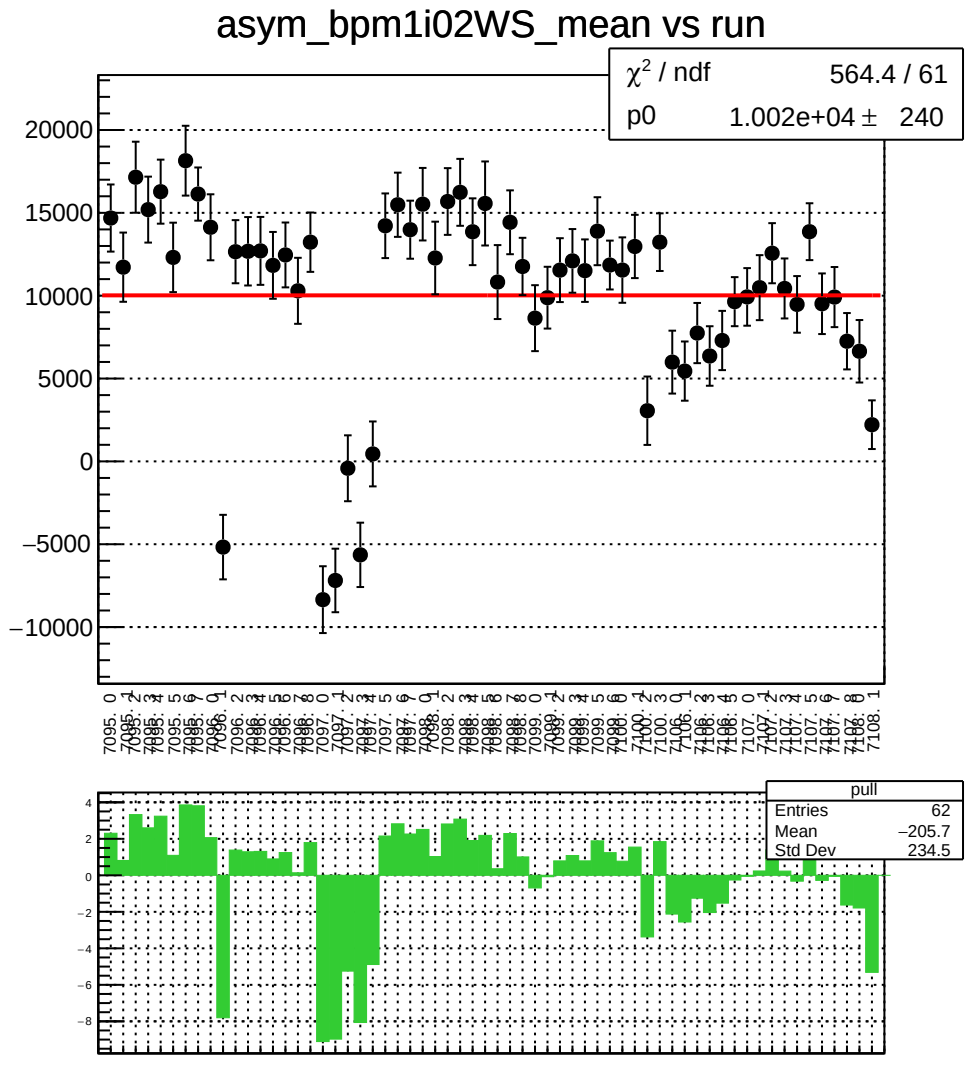

pull1D
Entries 62
Mean −0.0319
Std Dev 1.425

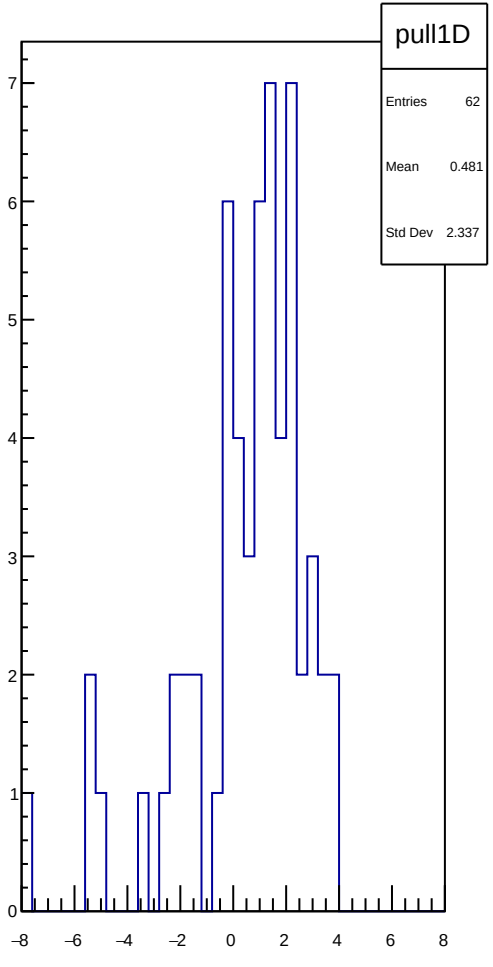

asym_bpm0i05WS_rms vs run
χ² / ndf 3553 / 61
p0 189.1 ± 0.1747
240
230
220
210
200
190
180
170

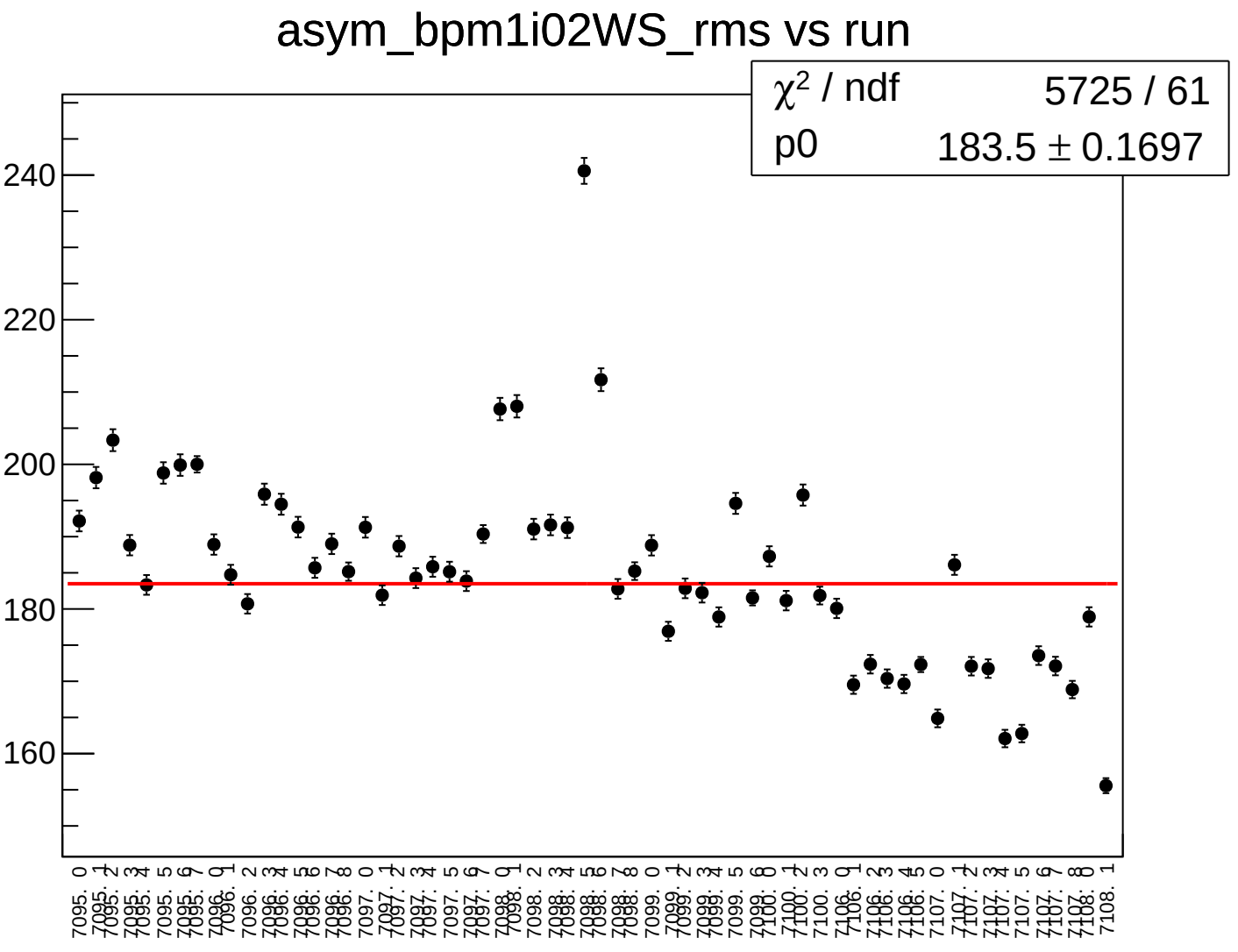

asym_bpm0i07WS_mean vs run
χ² / ndf 94.51 / 61
p0 −1301 ± 277.6
pull
Entries 62
Mean −387.6
Std Dev 429.8

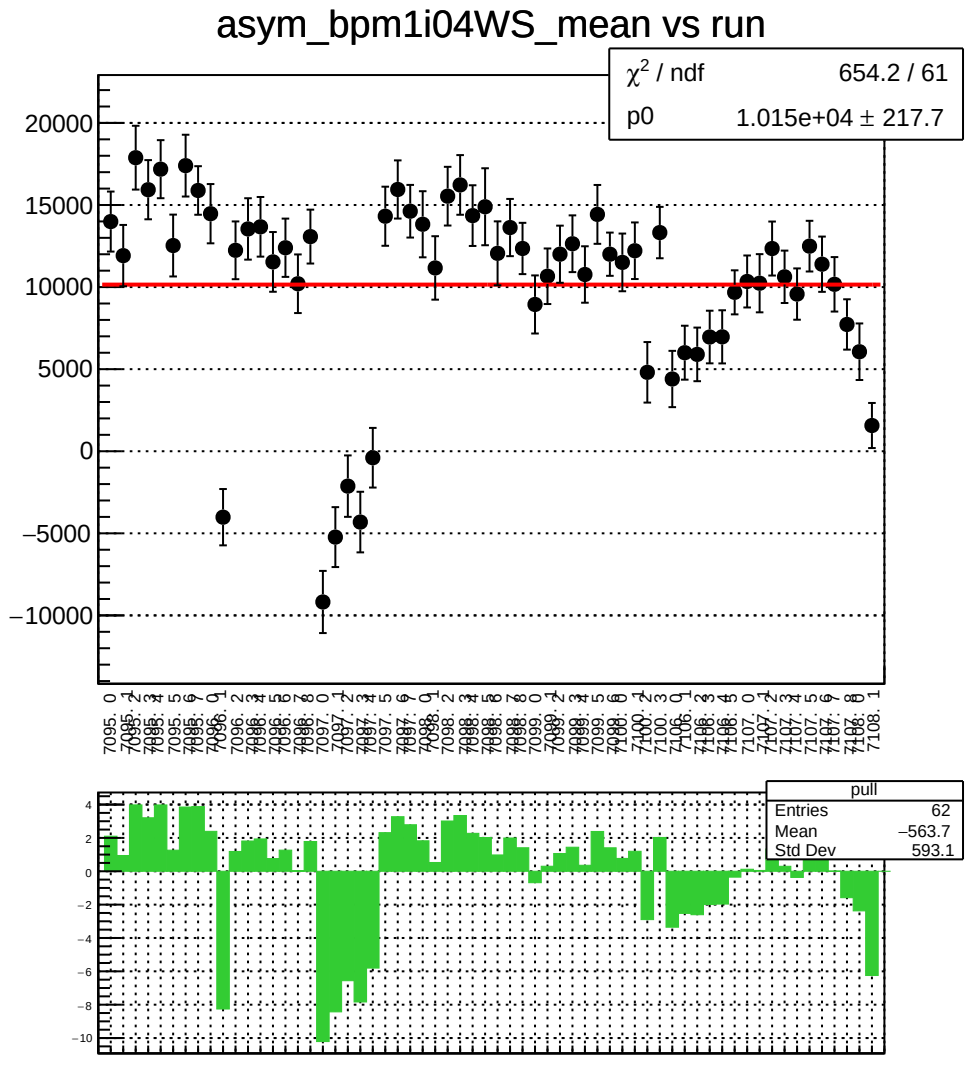

pull1D
Entries 62
Mean −0.01811
Std Dev 1.234

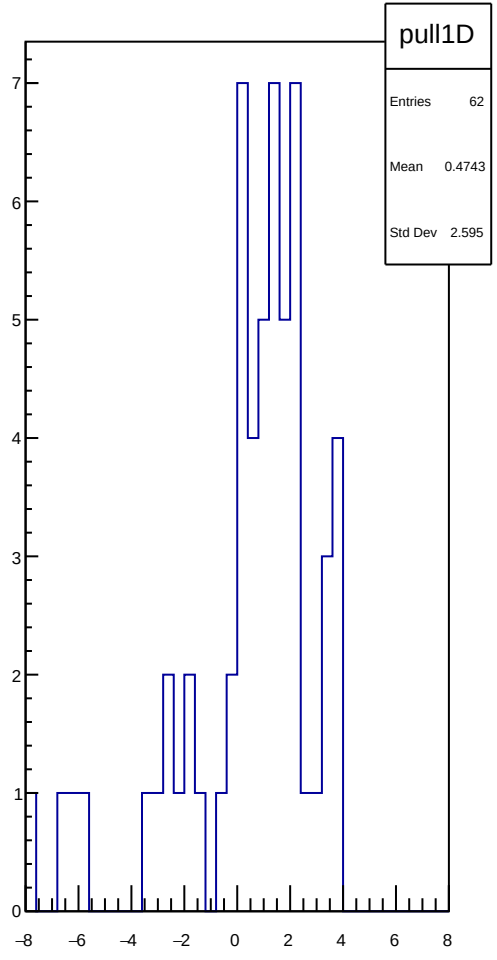

asym_bpm0i07WS_rms vs run
χ² / ndf 2909 / 61
p0 212.5 ± 0.1963
260
250
240
230
220
210
200
190

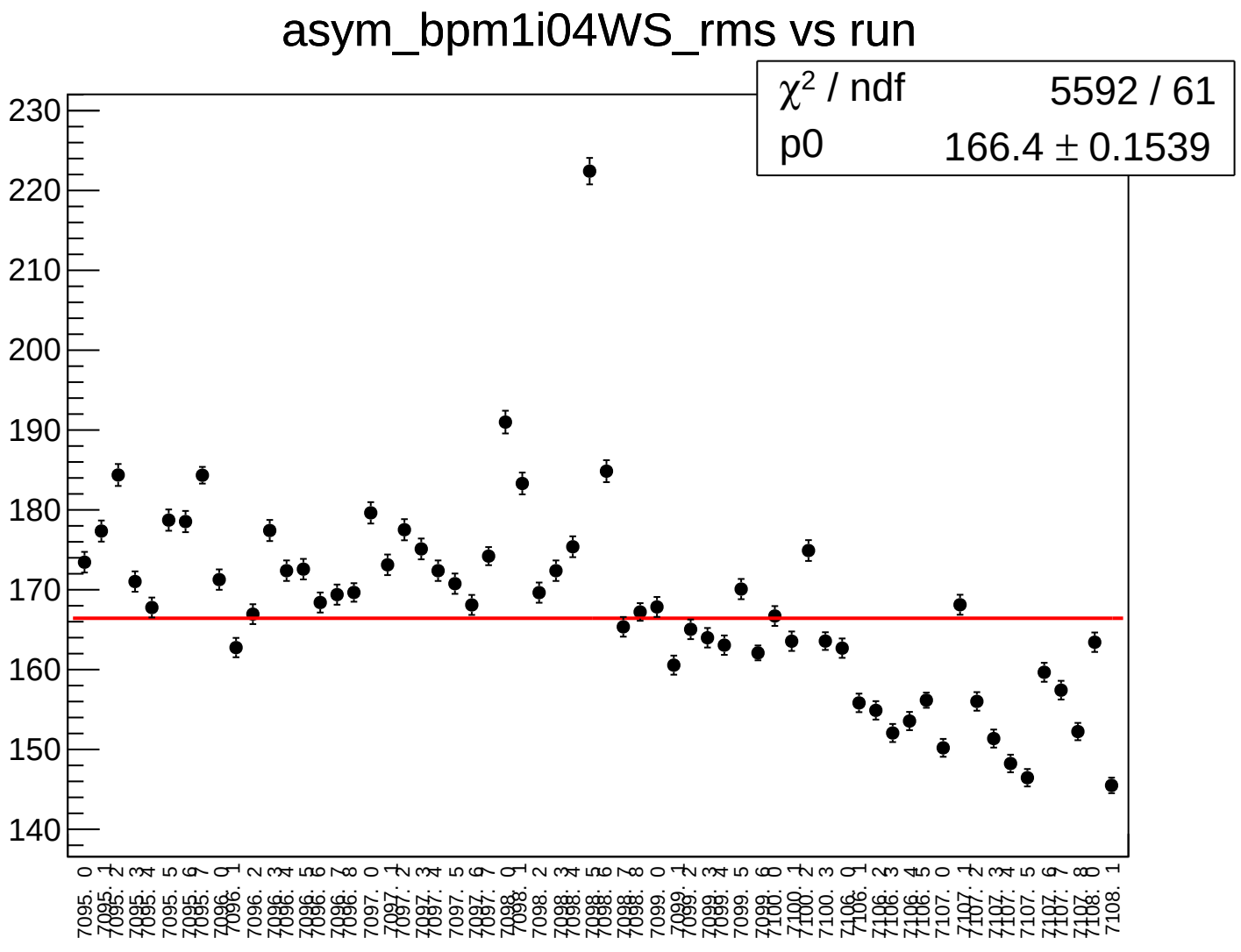

asym_bpm1i02WS_mean vs run
χ² / ndf 564.4 / 61
p0 1.002e+04 ± 240
pull
Entries 62
Mean −205.7
Std Dev 234.5

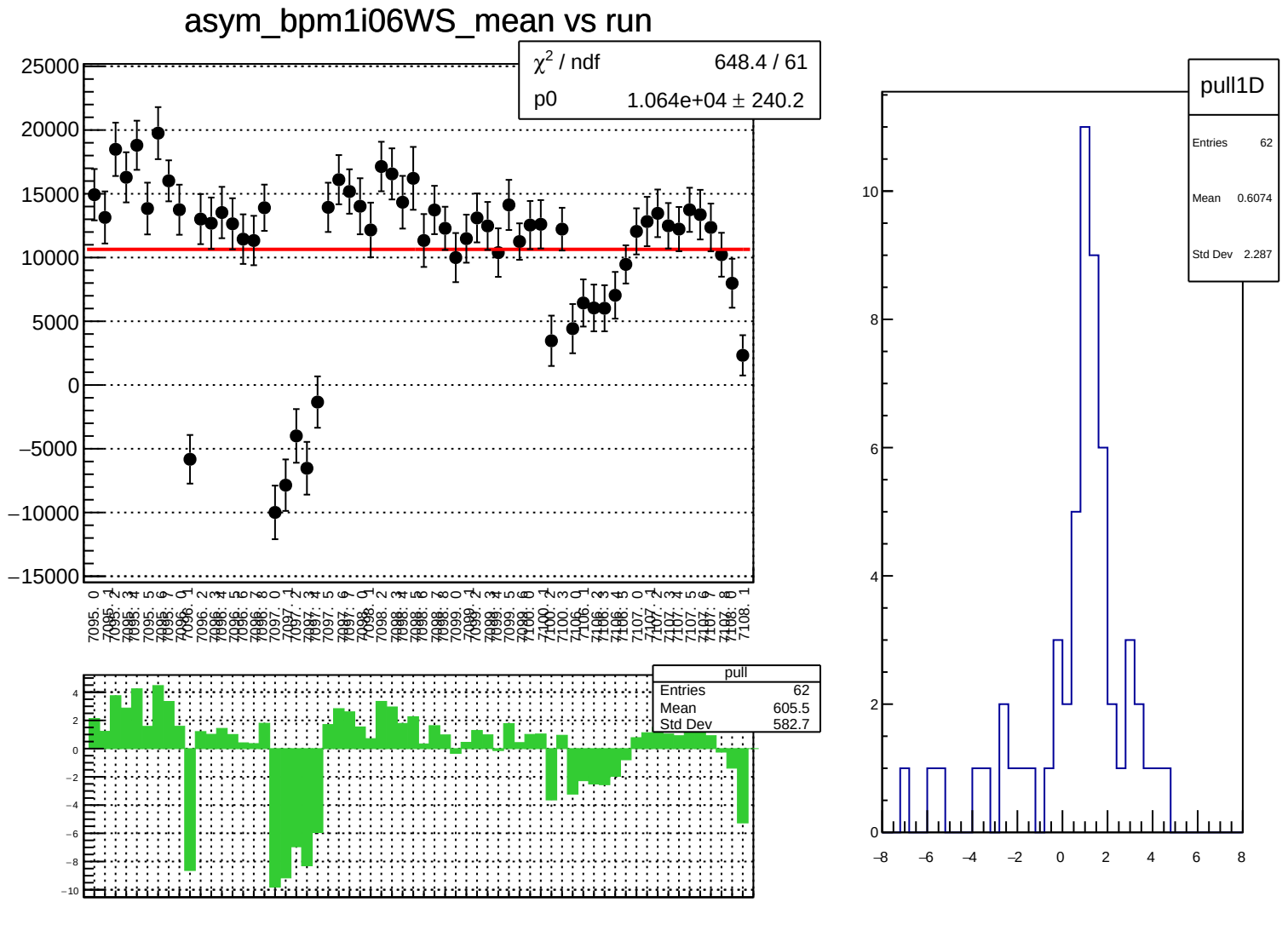

pull1D
Entries 62
Mean 0.481
Std Dev 2.337

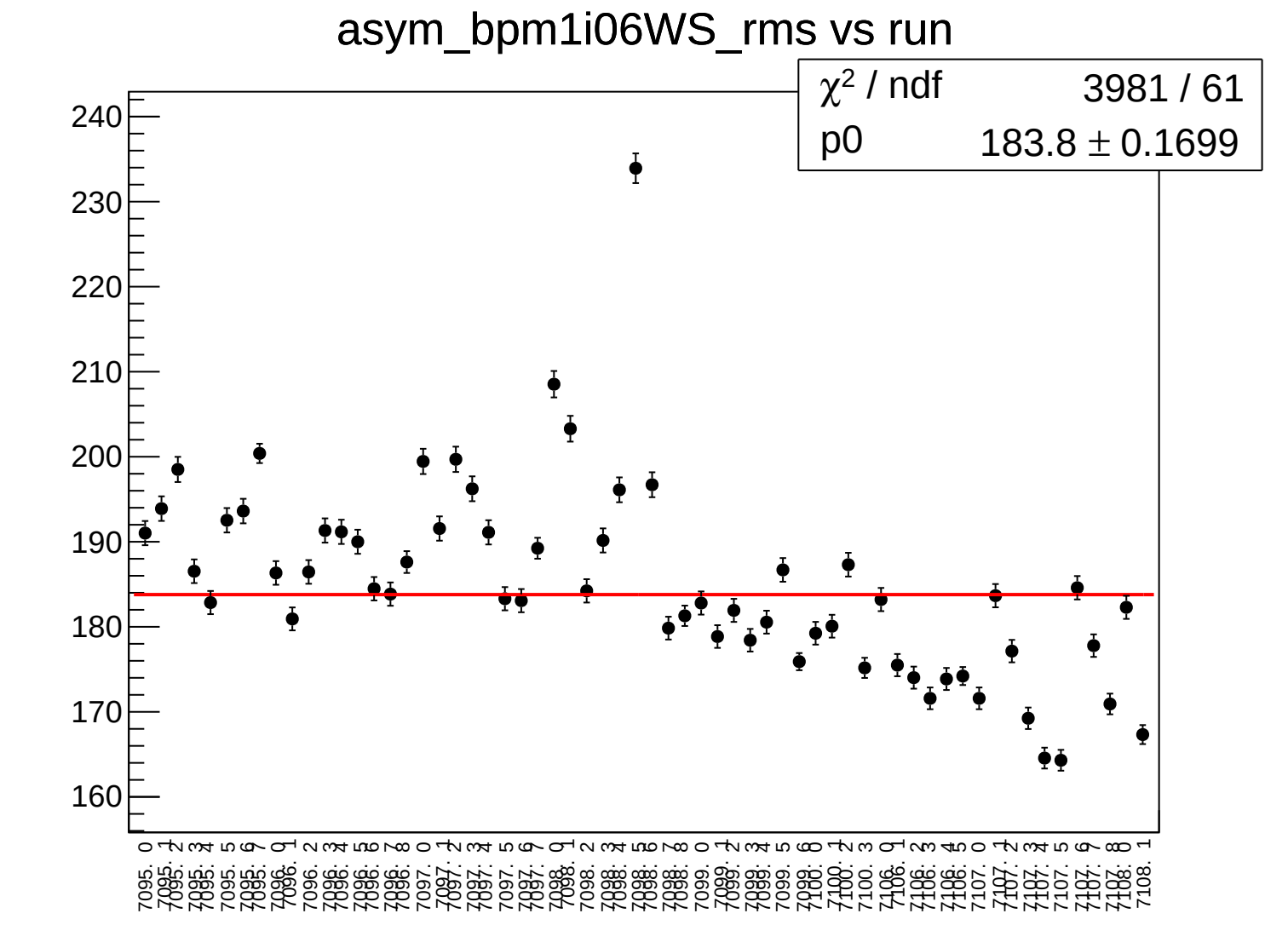

asym_bpm1i02WS_rms vs run
χ² / ndf 5725 / 61
p0 183.5 ± 0.1697
240
220
200
180
160
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7100. 4
7100. 5
7100. 6
7100. 7
7100. 8
7100. 9
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

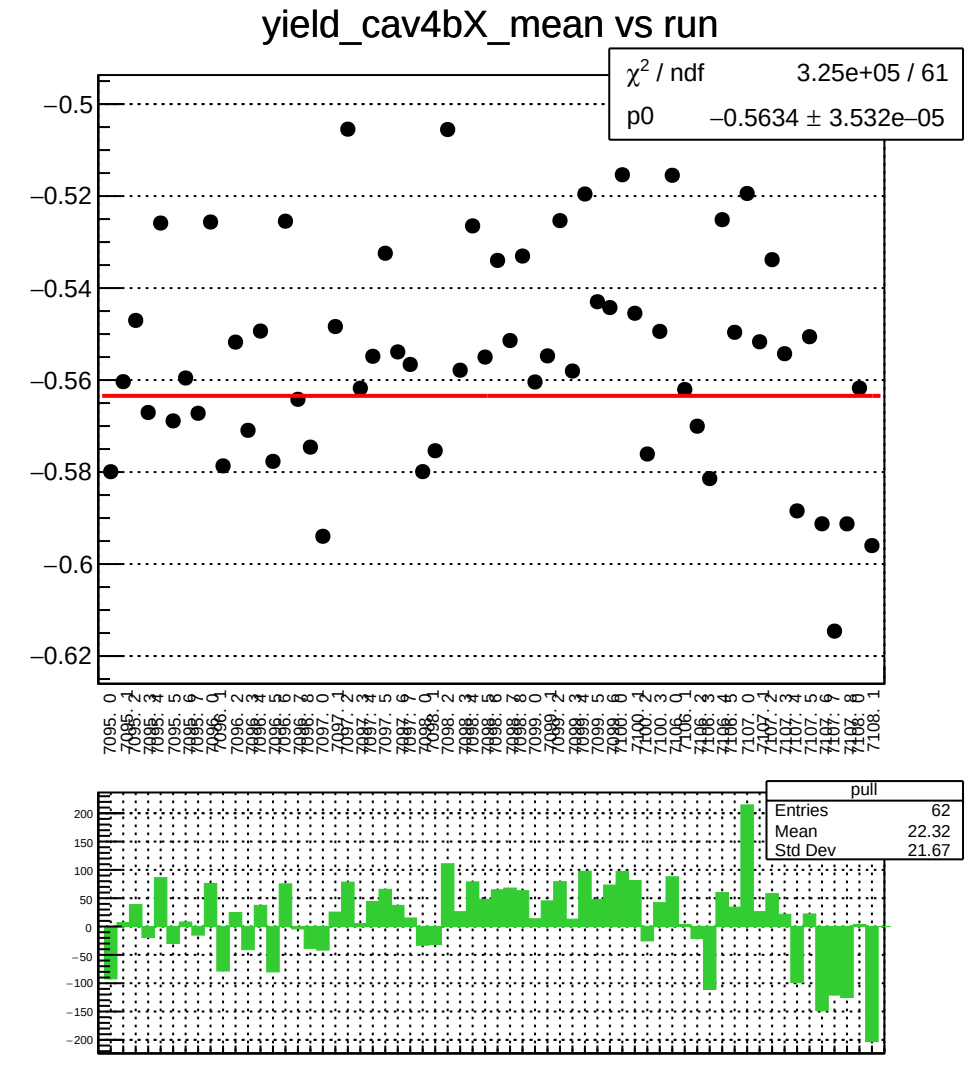

asym_bpm1i04WS_mean vs run
χ² / ndf 654.2 / 61
p0 1.015e+04 ± 217.7
pull
Entries 62
Mean −563.7
Std Dev 593.1

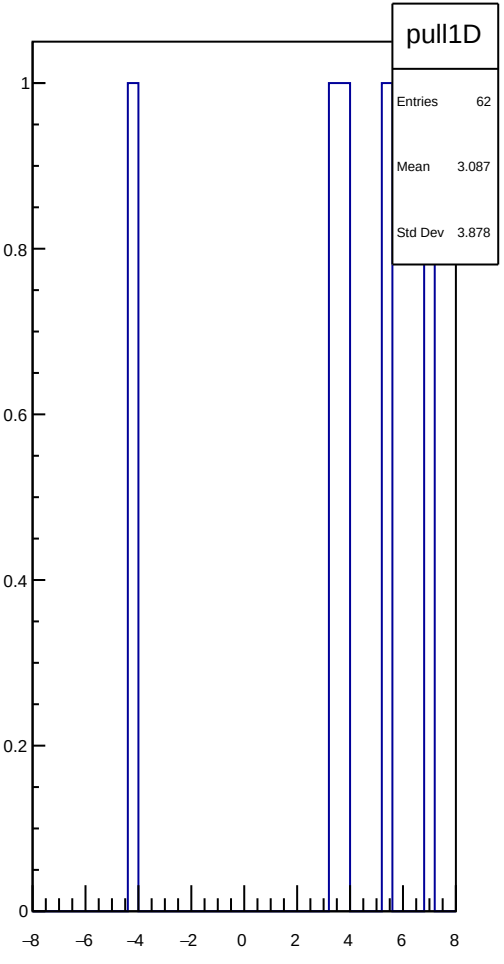

pull1D
Entries 62
Mean 0.4743
Std Dev 2.595

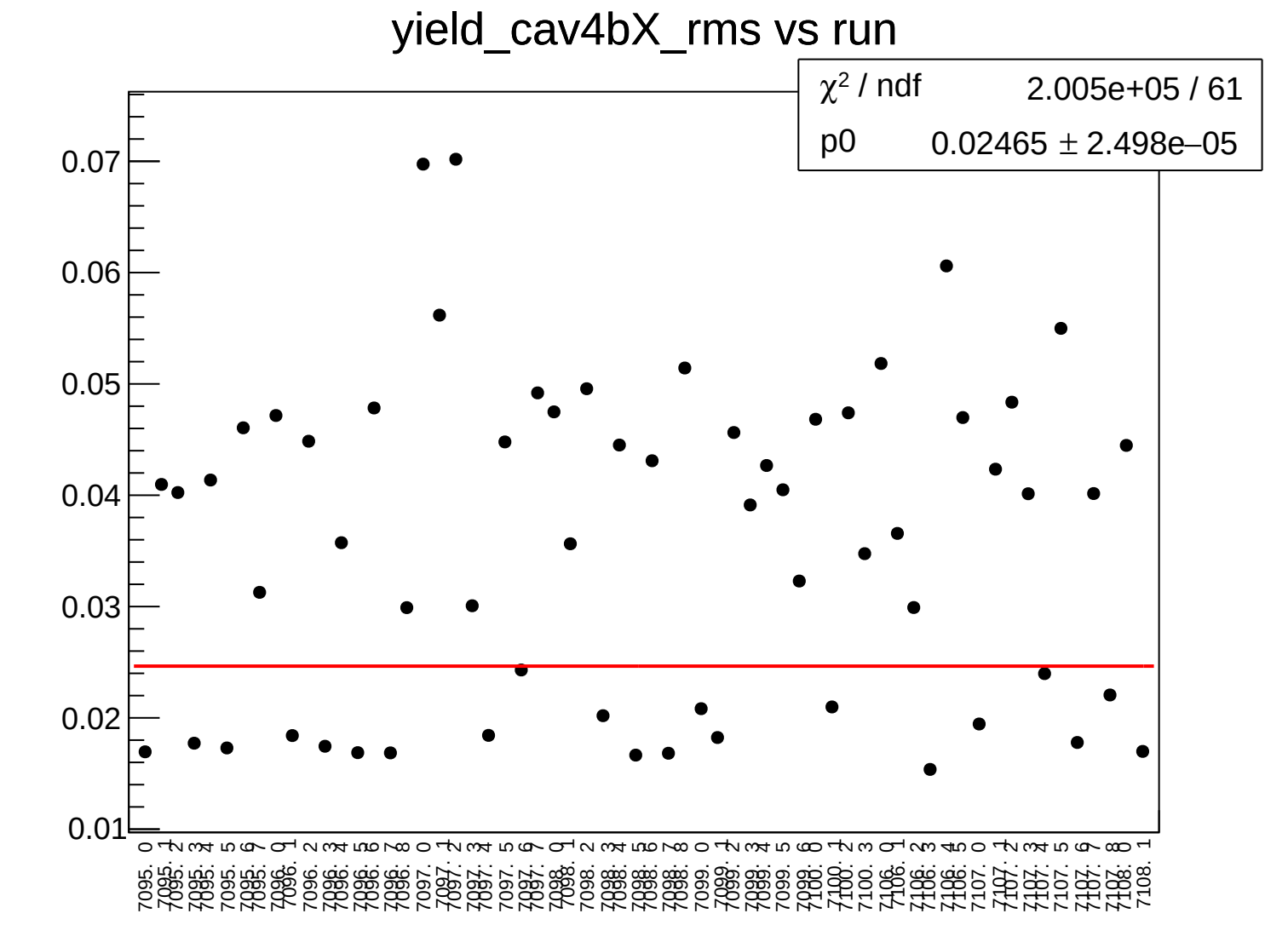

asym_bpm1i04WS_rms vs run
χ^2 / ndf 5592 / 61
p0 166.4 ± 0.1539
230
220
210
200
190
180
170
160
150
140
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

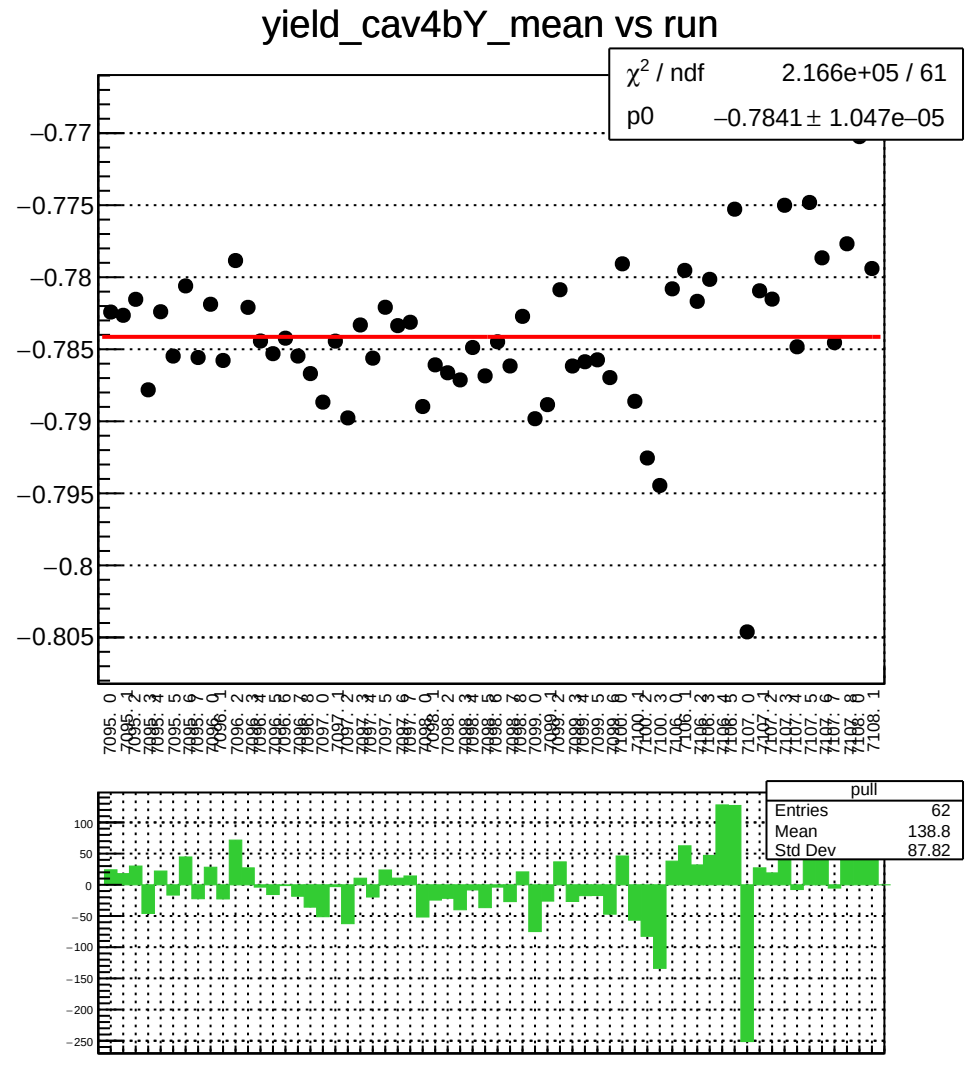

asym_bpm1i06WS_mean vs run
χ² / ndf 648.4 / 61
p0 1.064e+04 ± 240.2
pull
Entries 62
Mean 605.5
Std Dev 582.7
pull1D
Entries 62
Mean 0.6074
Std Dev 2.287

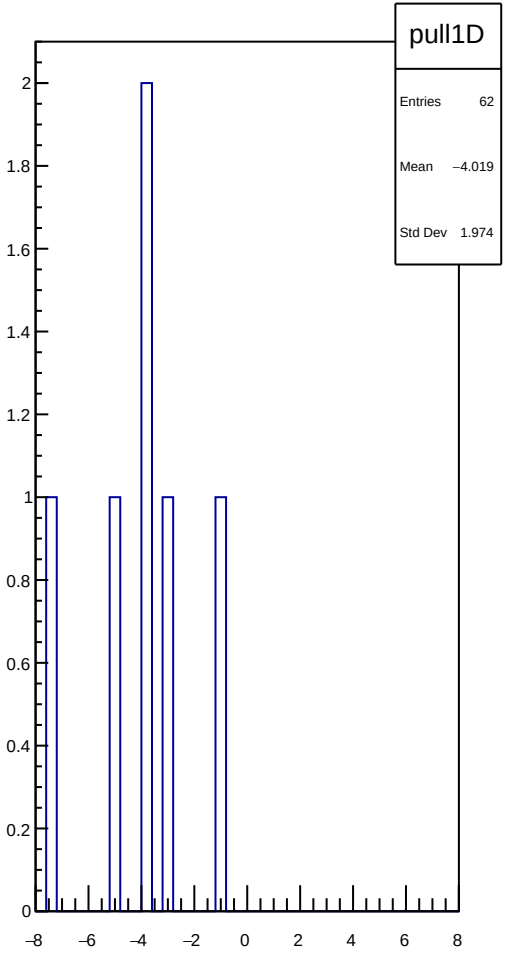

asym_bpm1i06WS_rms vs run
χ² / ndf 3981 / 61
p0 183.8 ± 0.1699
240
230
220
210
200
190
180
170
160

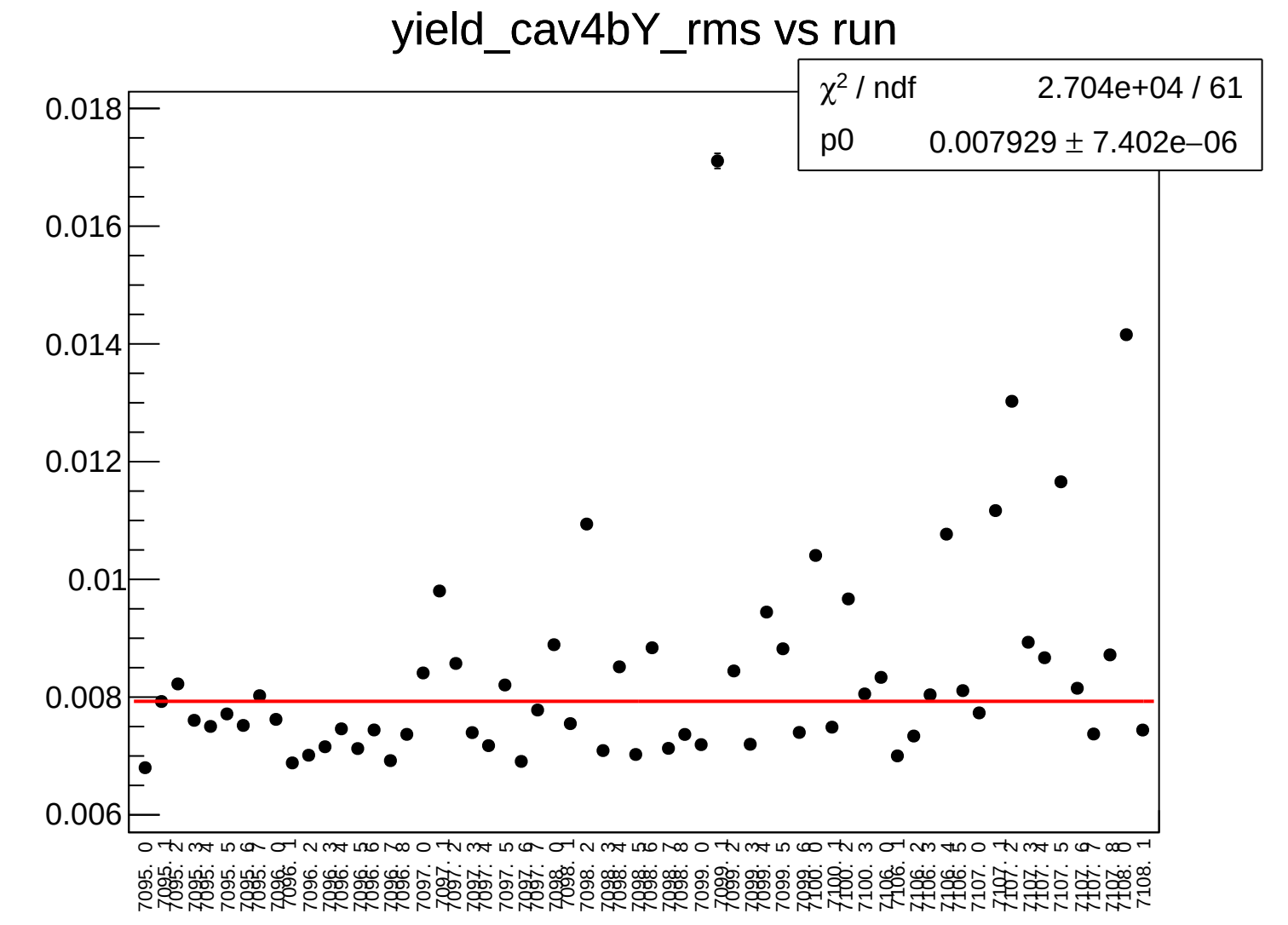

yield_cav4bX_mean vs run
χ² / ndf 3.25e+05 / 61
p0 −0.5634 ± 3.532e−05
pull
Entries 62
Mean 22.32
Std Dev 21.67

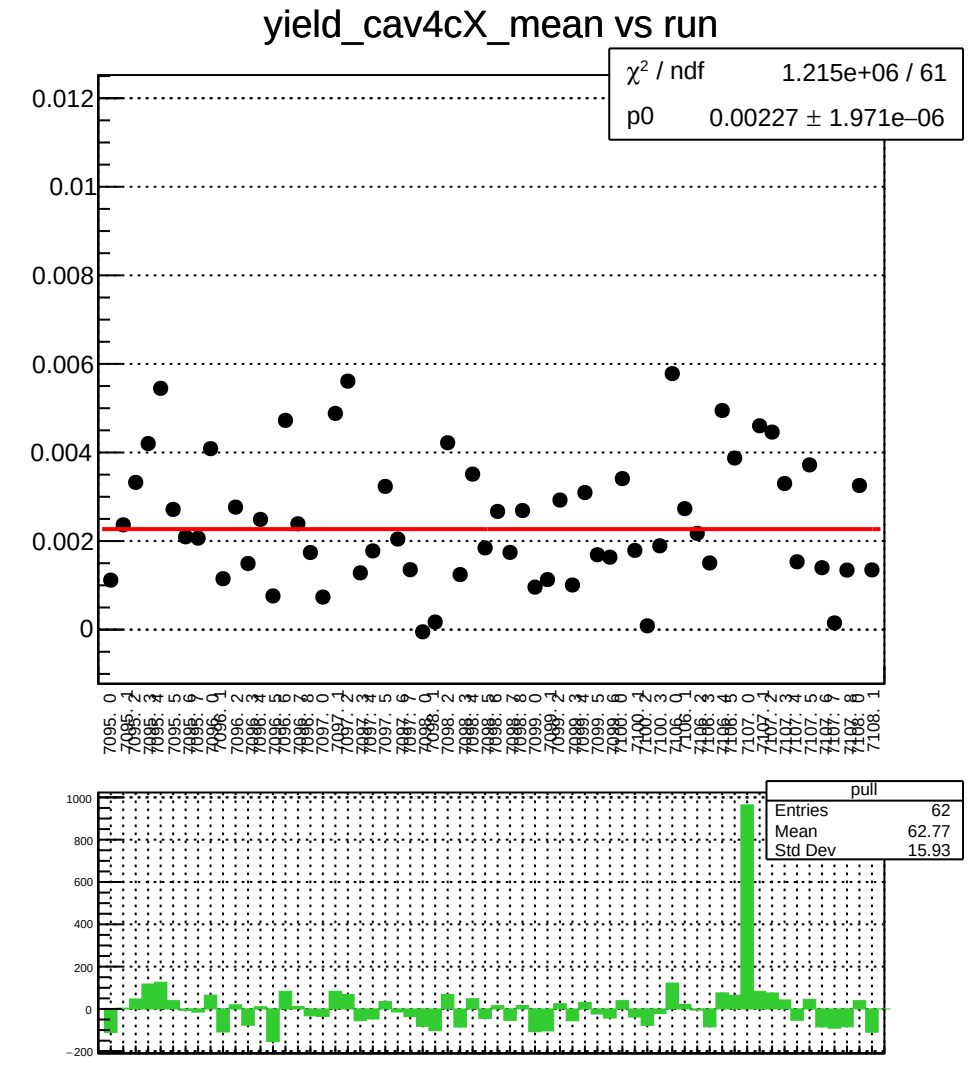

pull1D
Entries 62
Mean 3.087
Std Dev 3.878

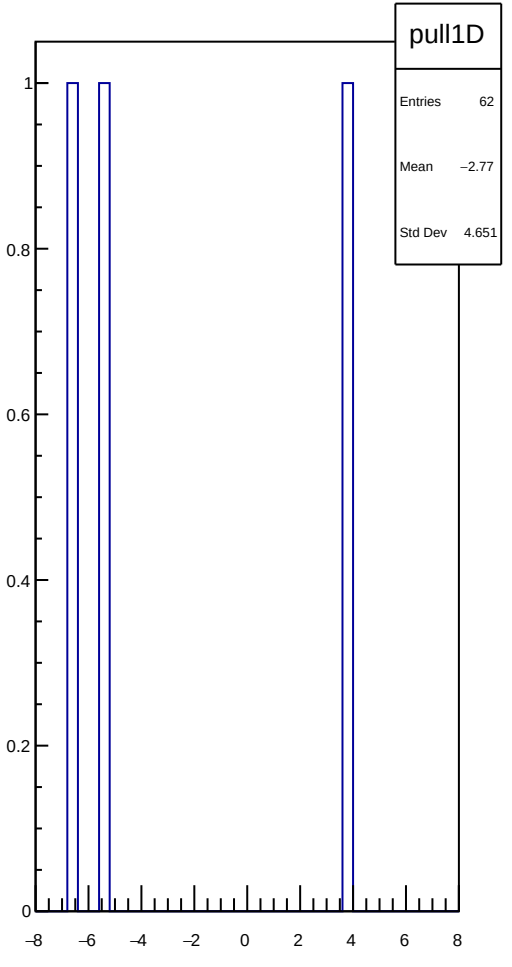

yield_cav4bX_rms vs run
χ² / ndf 2.005e+05 / 61
p0 0.02465 ± 2.498e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

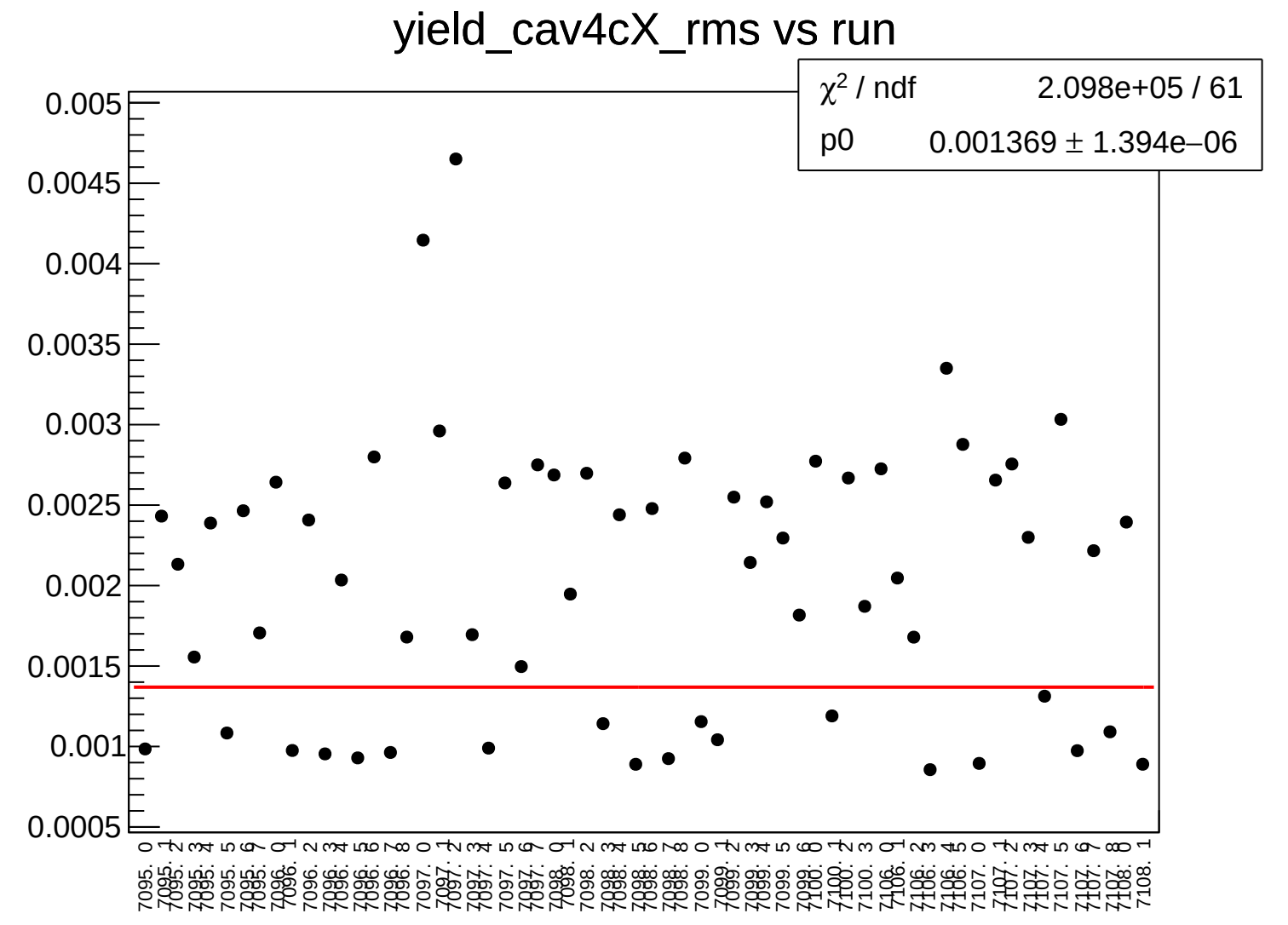

yield_cav4bY_mean vs run
χ² / ndf 2.166e+05 / 61
p0 −0.7841 ± 1.047e−05
−0.77
−0.775
−0.78
−0.785
−0.79
−0.795
−0.8
−0.805
pull
Entries 62
Mean 138.8
Std Dev 87.82
100
50
0
−50
−100
−150
−200
−250

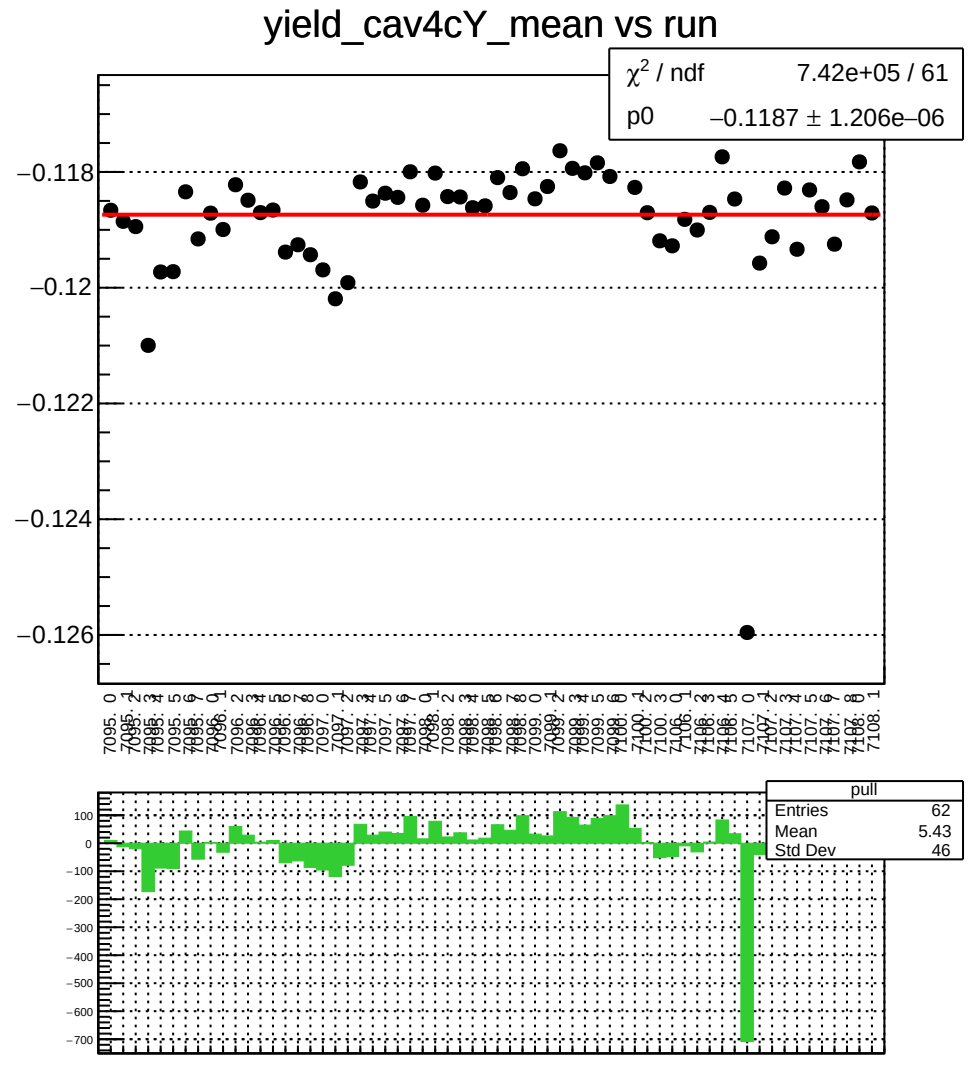

pull1D
Entries 62
Mean −4.019
Std Dev 1.974
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

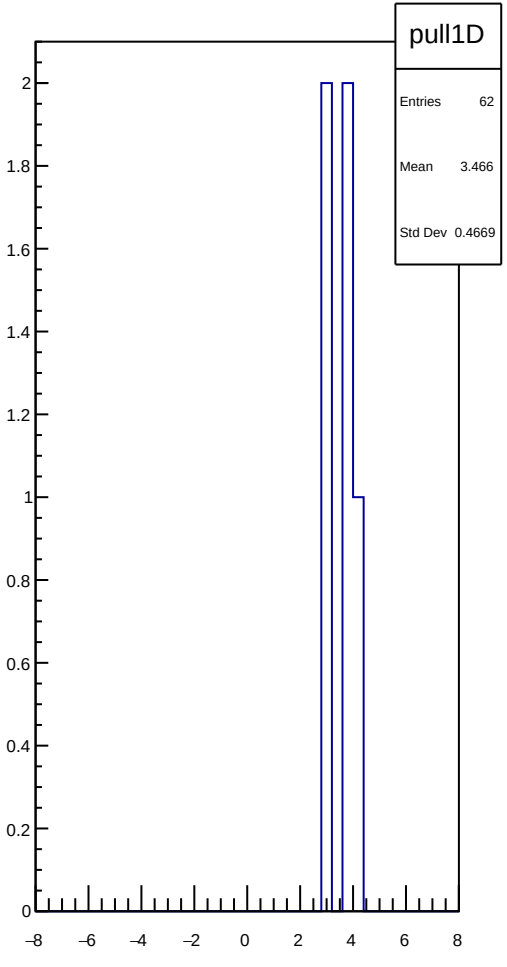

yield_cav4bY_rms vs run
χ² / ndf 2.704e+04 / 61
p0 0.007929 ± 7.402e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

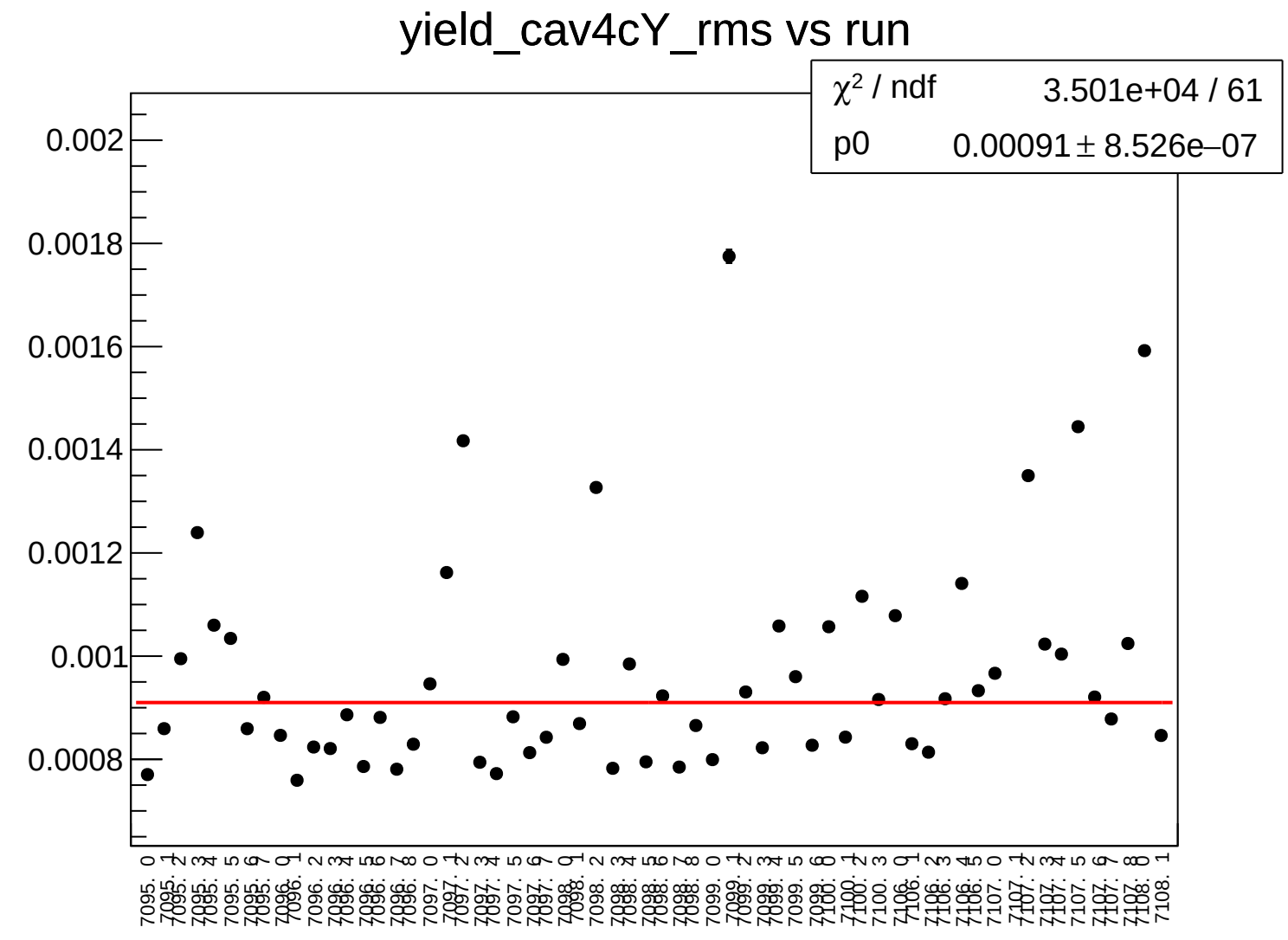

yield_cav4cX_mean vs run
χ² / ndf 1.215e+06 / 61
p0 0.00227 ± 1.971e−06
0.012
0.01
0.008
0.006
0.004
0.002
0
pull
Entries 62
Mean 62.77
Std Dev 15.93
1000
800
600
400
200
0
−200

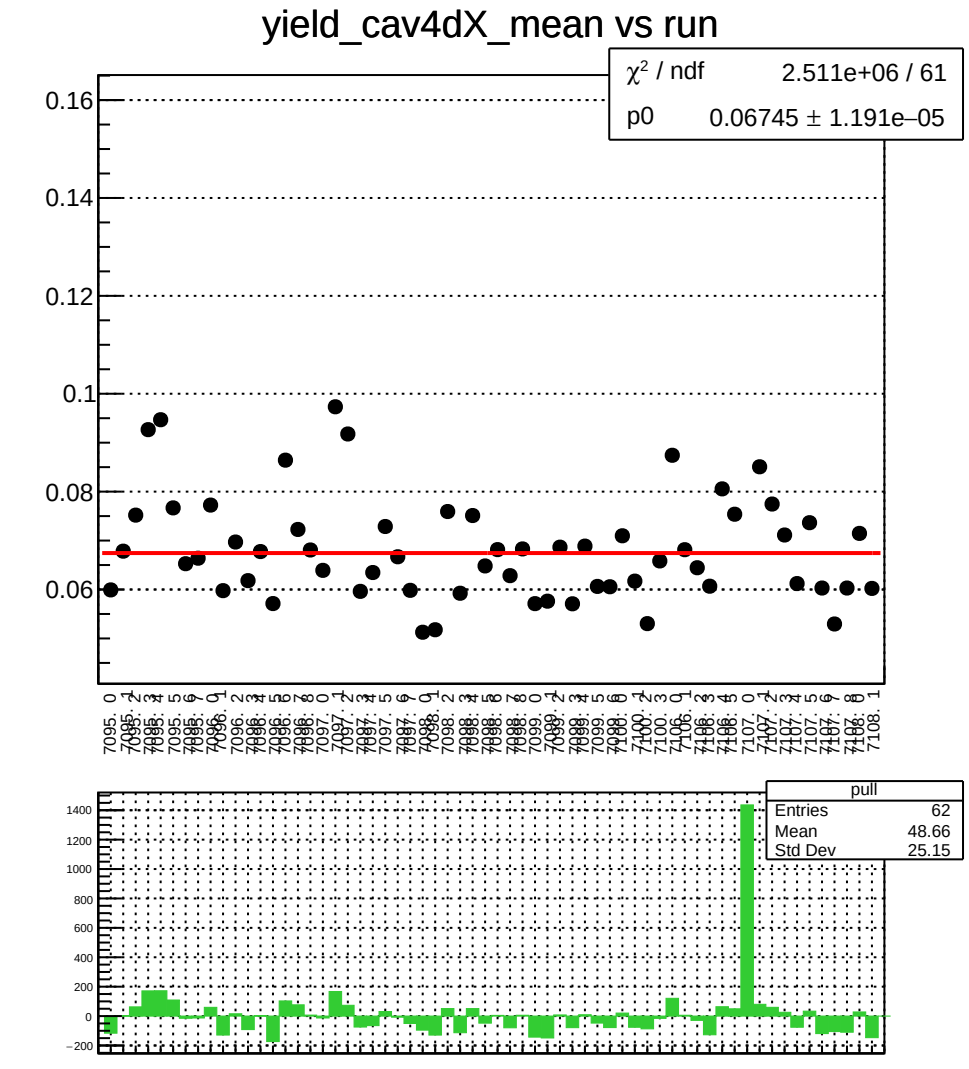

pull1D
Entries 62
Mean −2.77
Std Dev 4.651
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

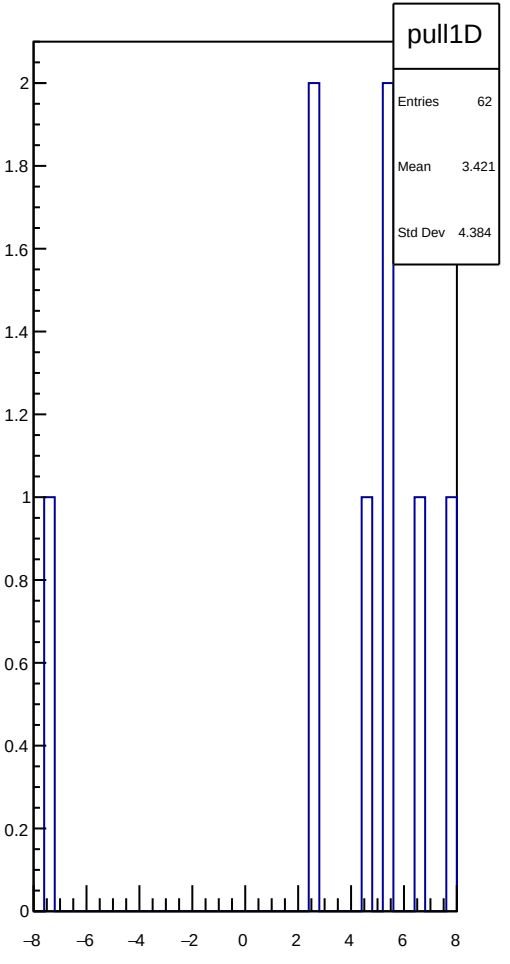

yield_cav4cX_rms vs run
χ² / ndf 2.098e+05 / 61
p0 0.001369 ± 1.394e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001
0.0005

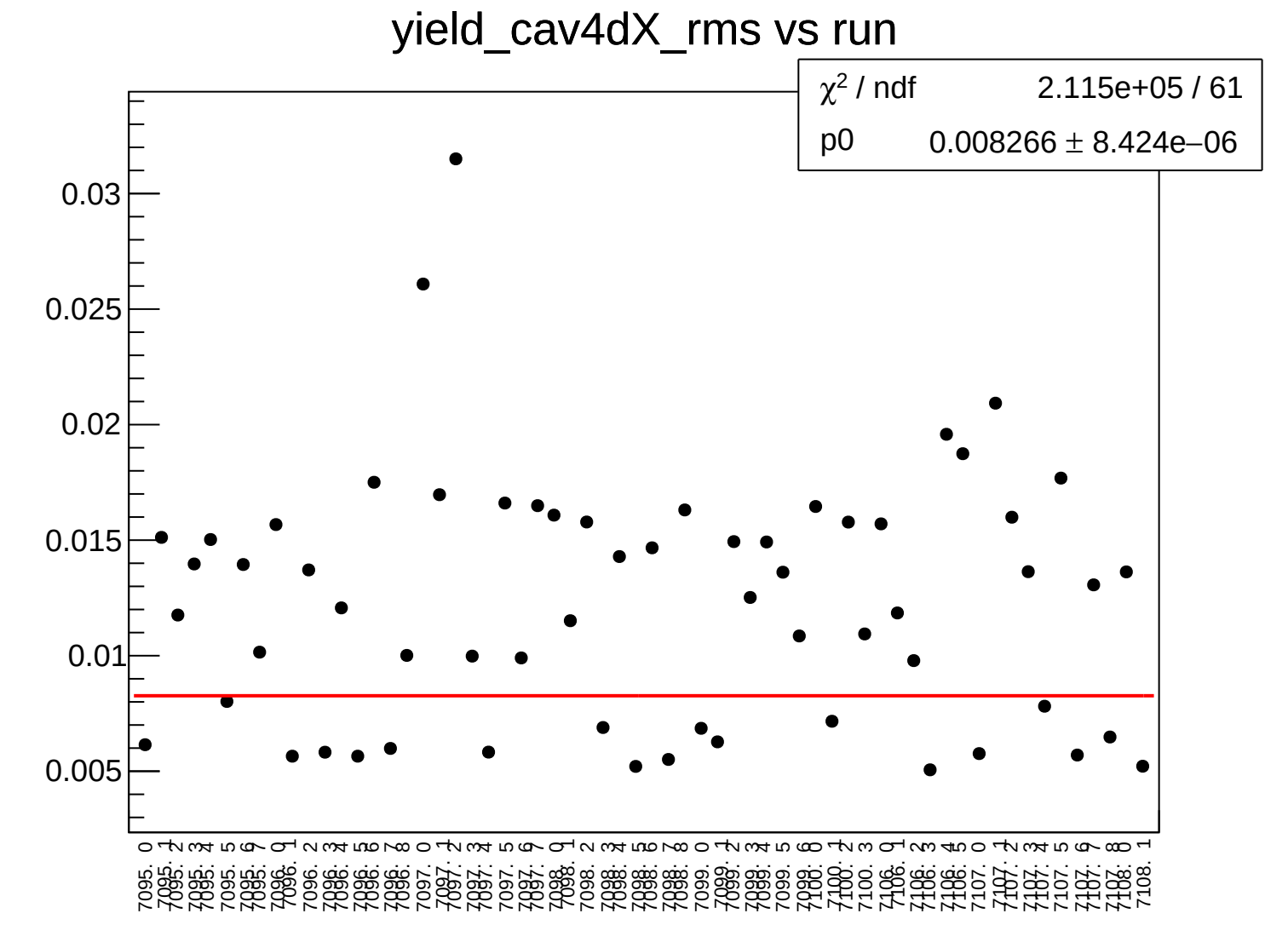

yield_cav4cY_mean vs run
χ² / ndf 7.42e+05 / 61
p0 −0.1187 ± 1.206e−06
−0.118
−0.12
−0.122
−0.124
−0.126
pull
Entries 62
Mean 5.43
Std Dev 46
100
0
−100
−200
−300
−400
−500
−600
−700

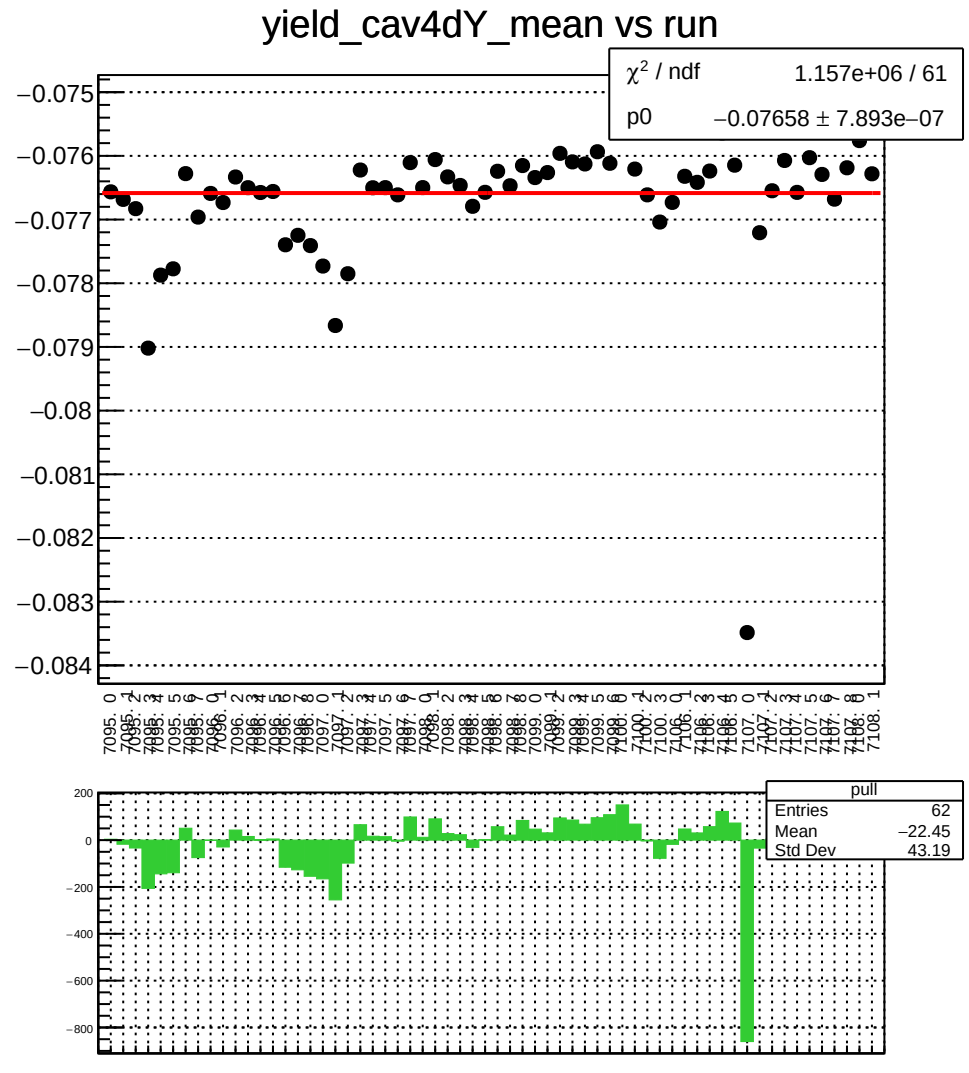

pull1D
Entries 62
Mean 3.466
Std Dev 0.4669
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

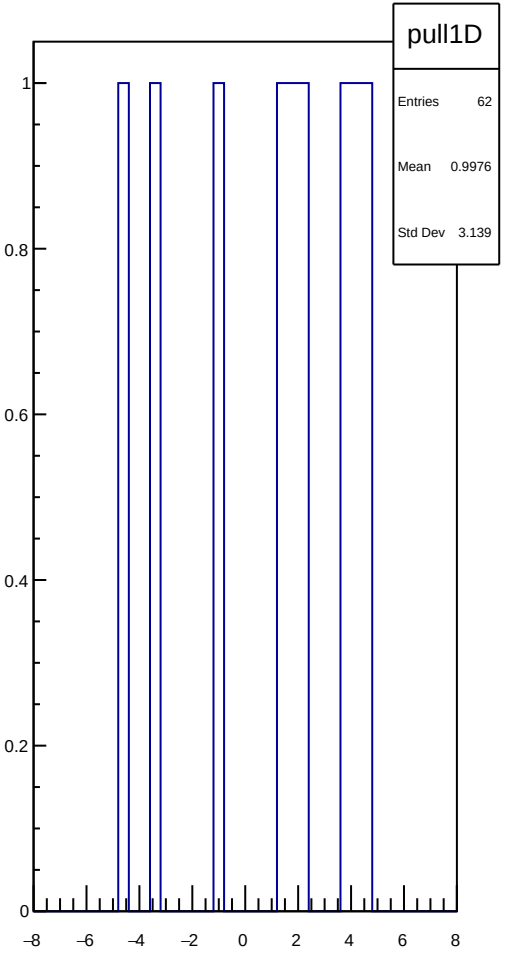

yield_cav4cY_rms vs run
χ² / ndf 3.501e+04 / 61
p0 0.00091 ± 8.526e–07
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008

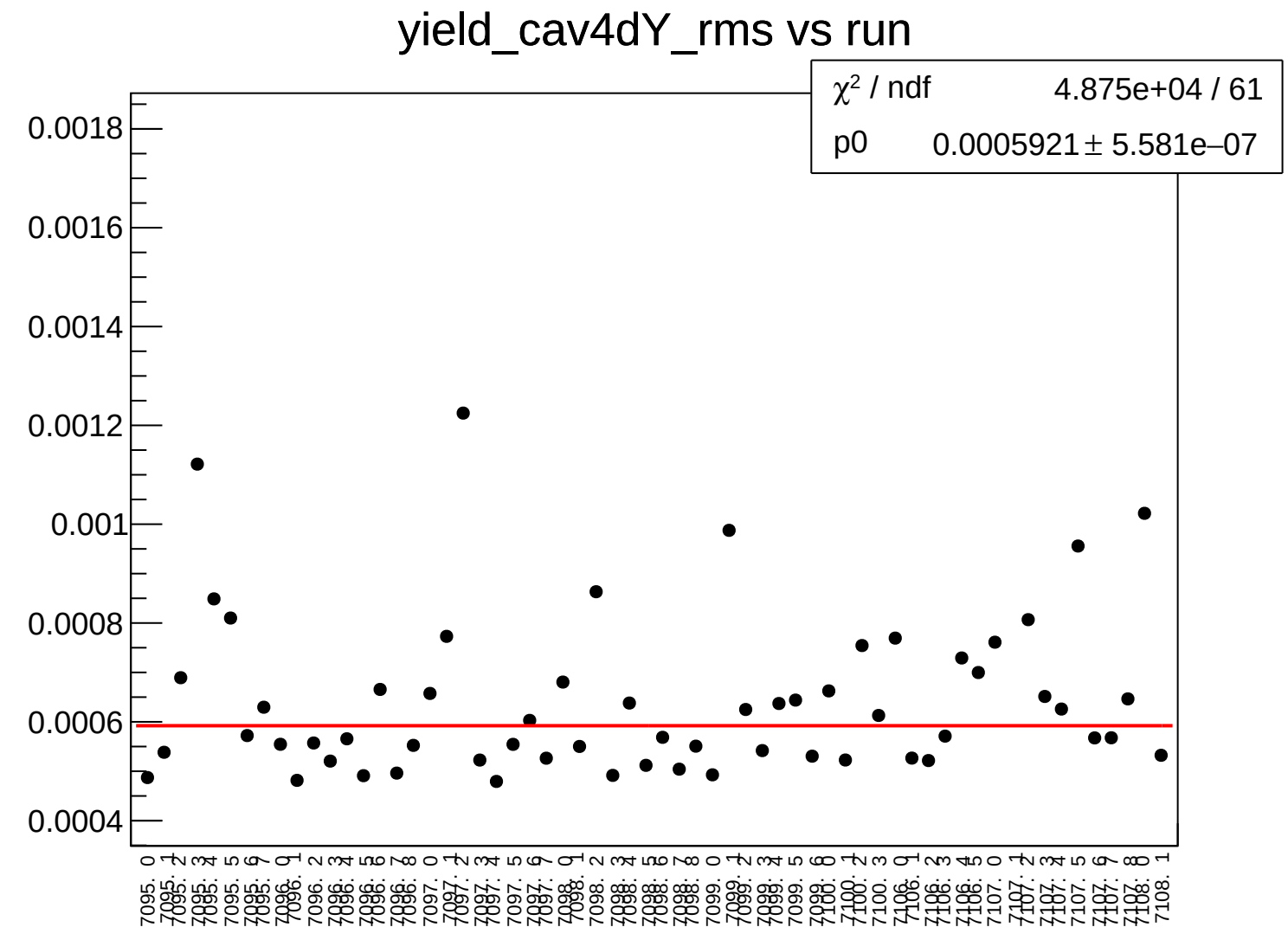

yield_cav4dX_mean vs run
χ² / ndf 2.511e+06 / 61
p0 0.06745 ± 1.191e−05
0.16
0.14
0.12
0.1
0.08
0.06
pull
Entries 62
Mean 48.66
Std Dev 25.15
1400
1200
1000
800
600
400
200
0
−200

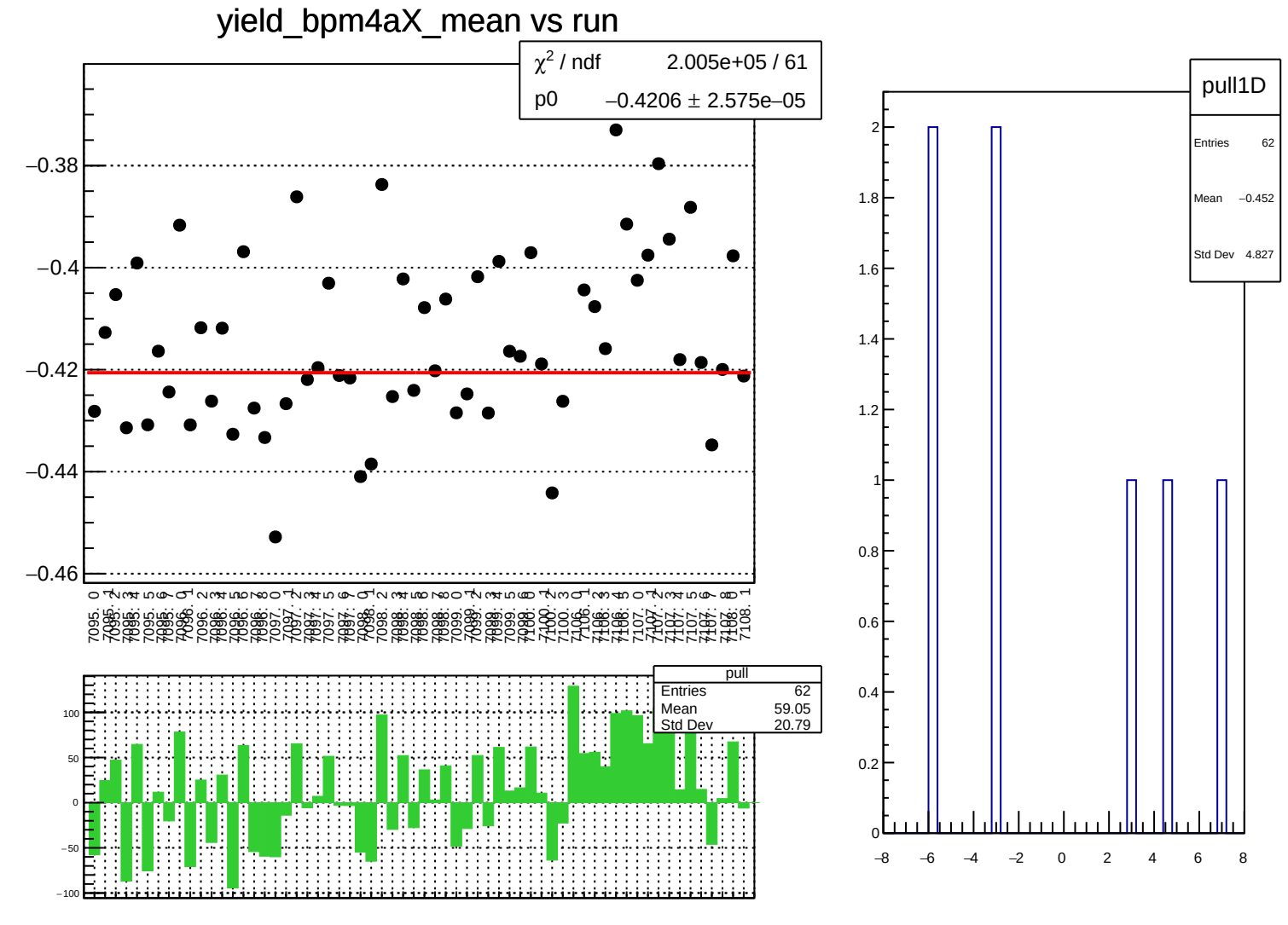

pull1D
Entries 62
Mean 3.421
Std Dev 4.384
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

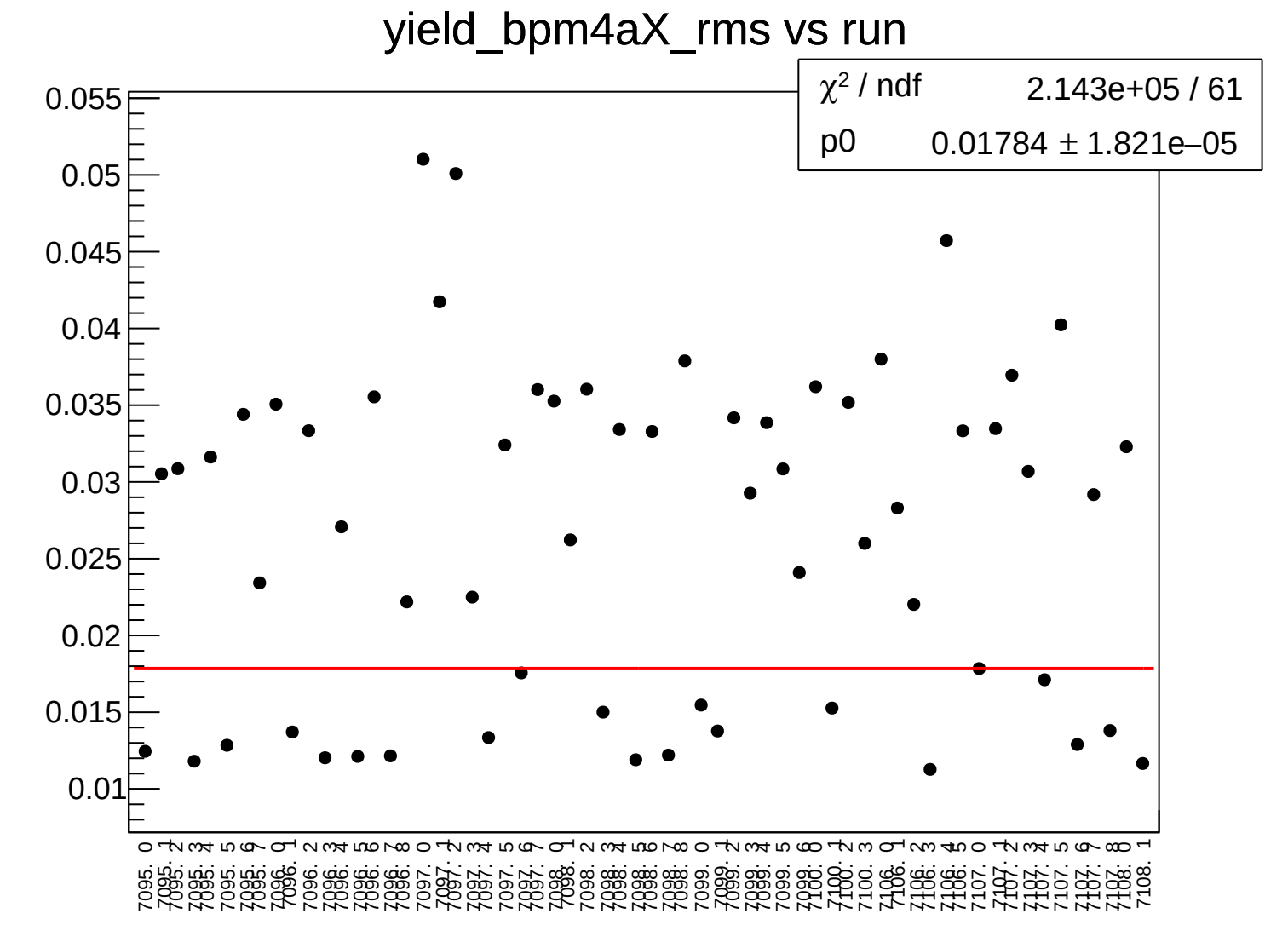

yield_cav4dX_rms vs run
χ² / ndf 2.115e+05 / 61
p0 0.008266 ± 8.424e−06
0.03
0.025
0.02
0.015
0.01
0.005

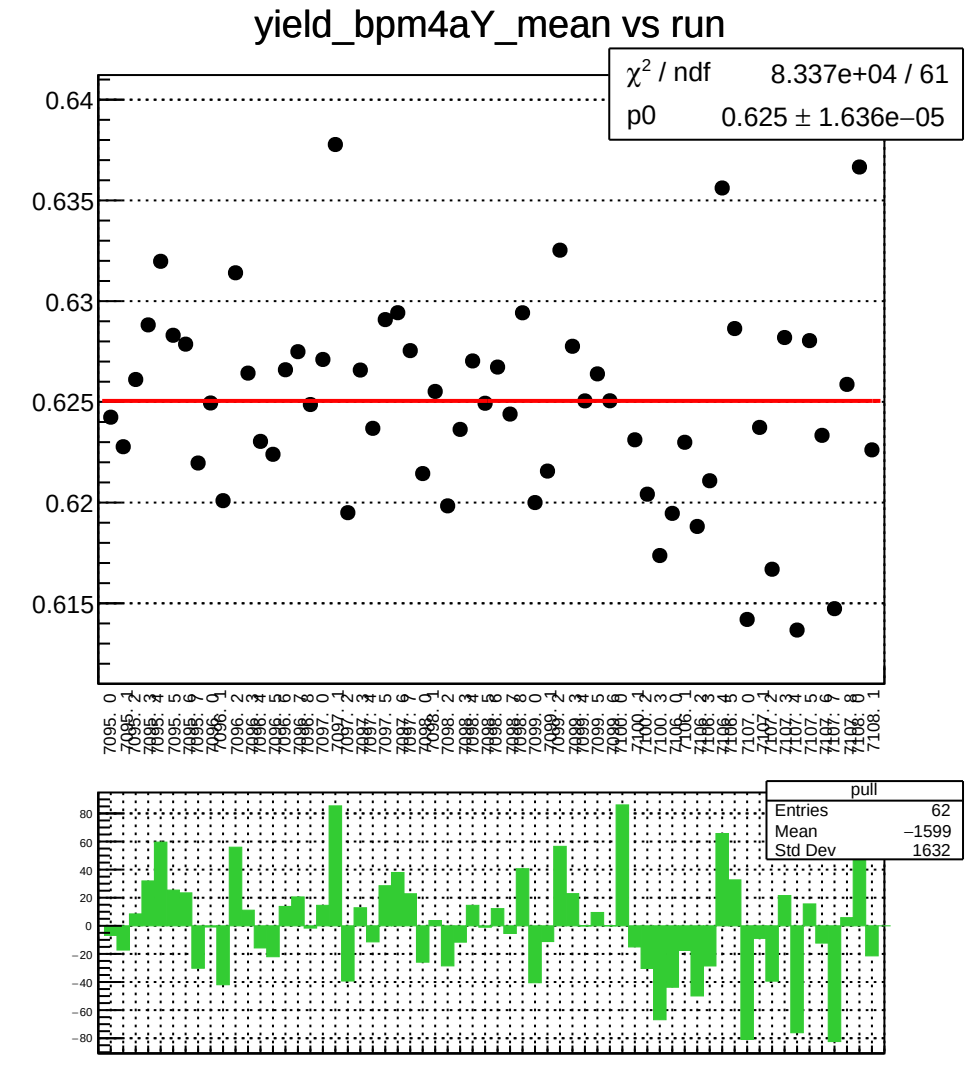

yield_cav4dY_mean vs run
χ² / ndf 1.157e+06 / 61
p0 −0.07658 ± 7.893e−07
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
−0.082
−0.083
−0.084
pull
Entries 62
Mean −22.45
Std Dev 43.19
200
0
−200
−400
−600
−800

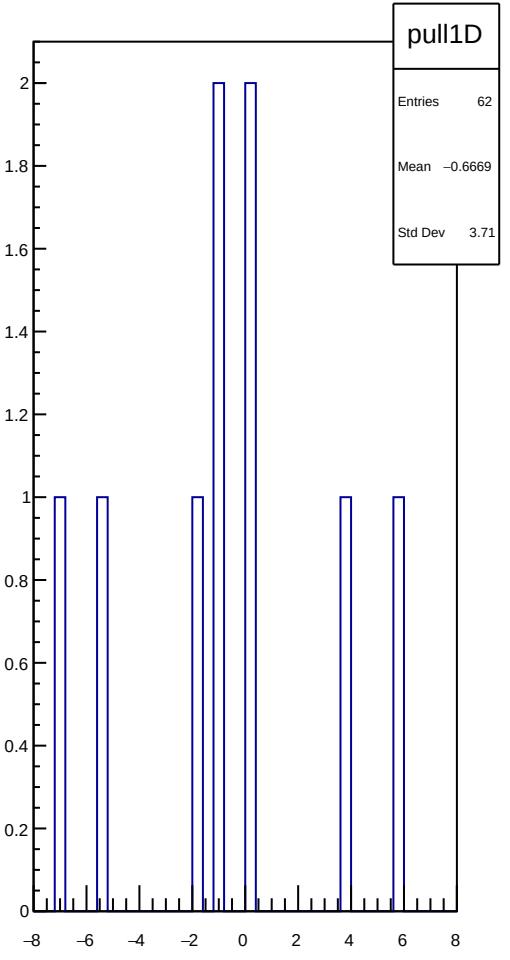

pull1D
Entries 62
Mean 0.9976
Std Dev 3.139
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

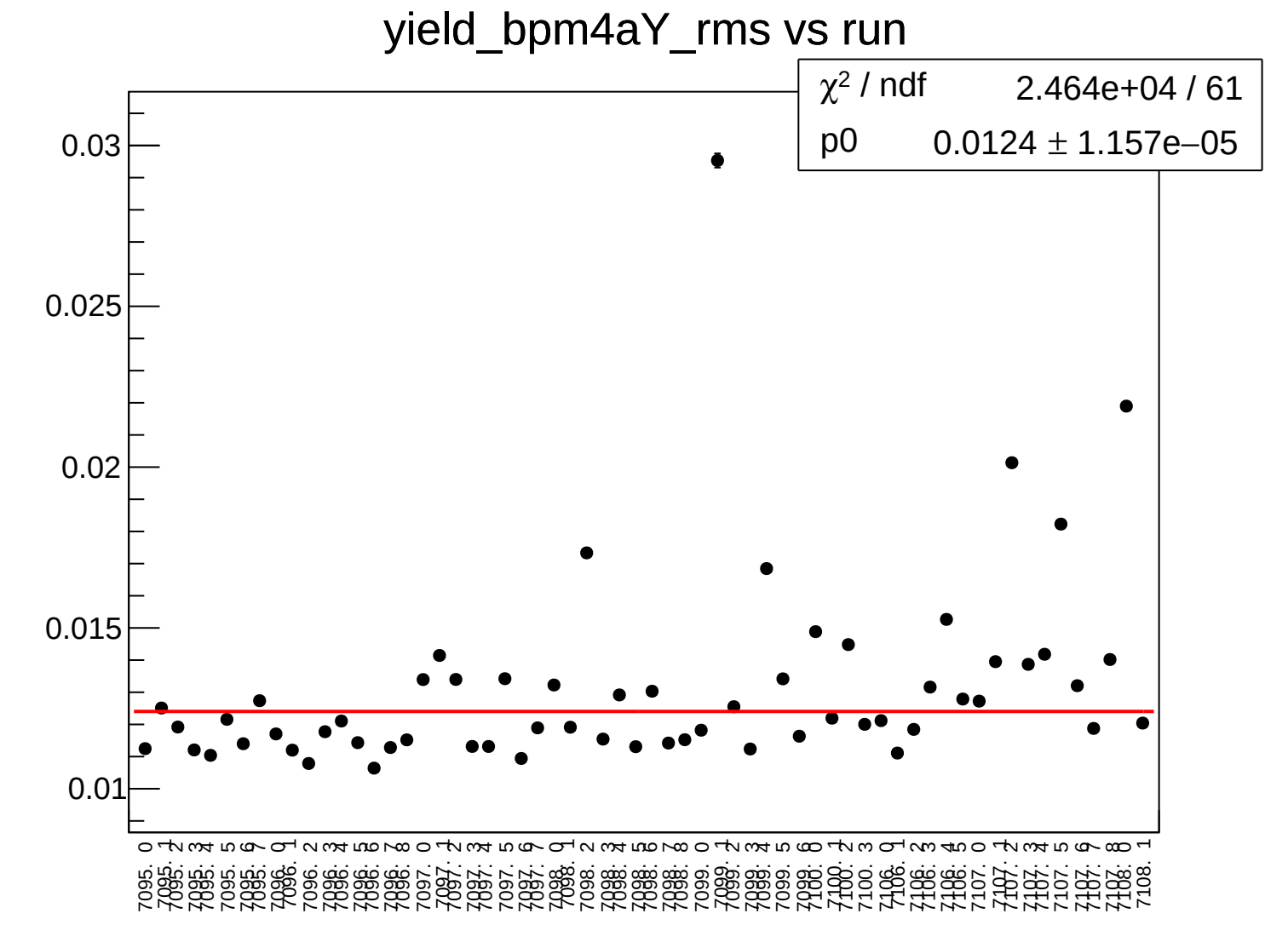

yield_cav4dY_rms vs run
χ² / ndf 4.875e+04 / 61
p0 0.0005921 ± 5.581e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

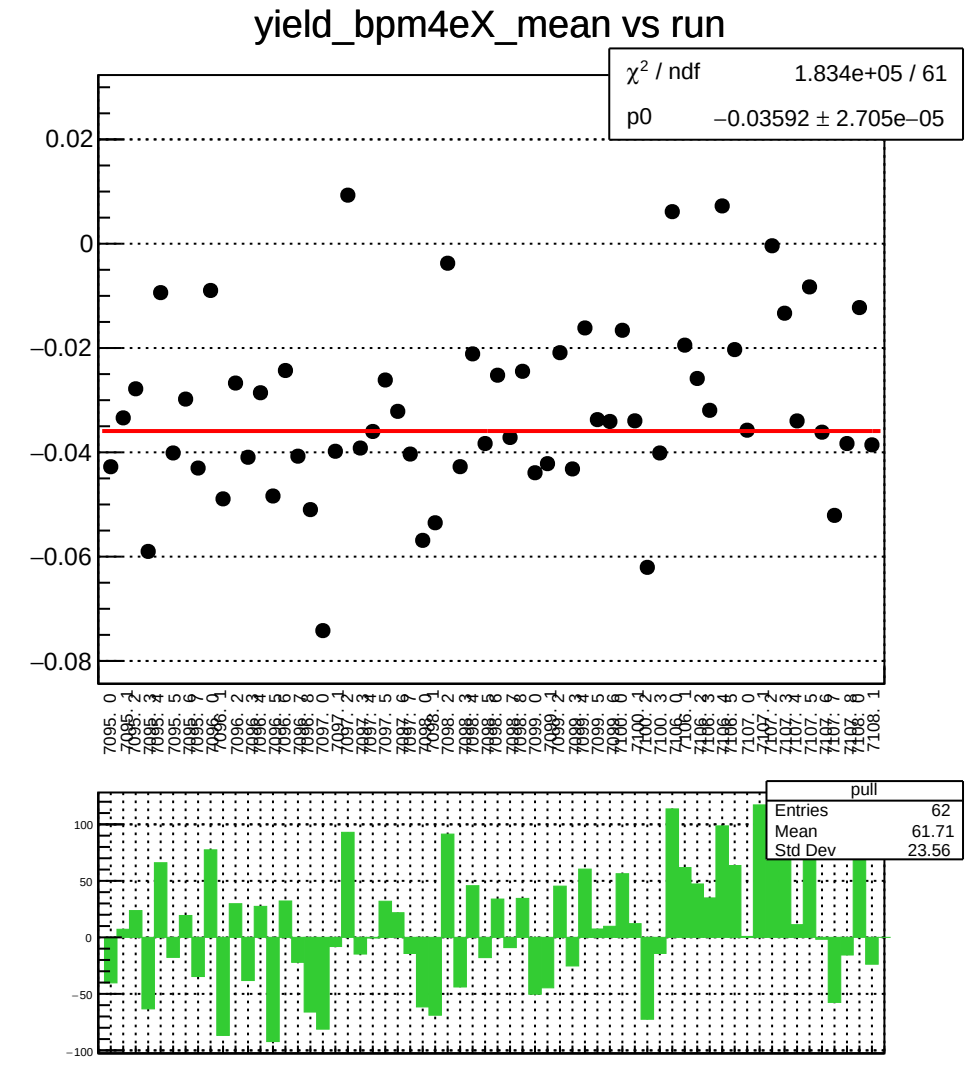

yield_bpm4aX_mean vs run
χ² / ndf 2.005e+05 / 61
p0 −0.4206 ± 2.575e−05
−0.38
−0.4
−0.42
−0.44
−0.46
pull
Entries 62
Mean 59.05
Std Dev 20.79
100
50
0
−50
−100
pull1D
Entries 62
Mean −0.452
Std Dev 4.827
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

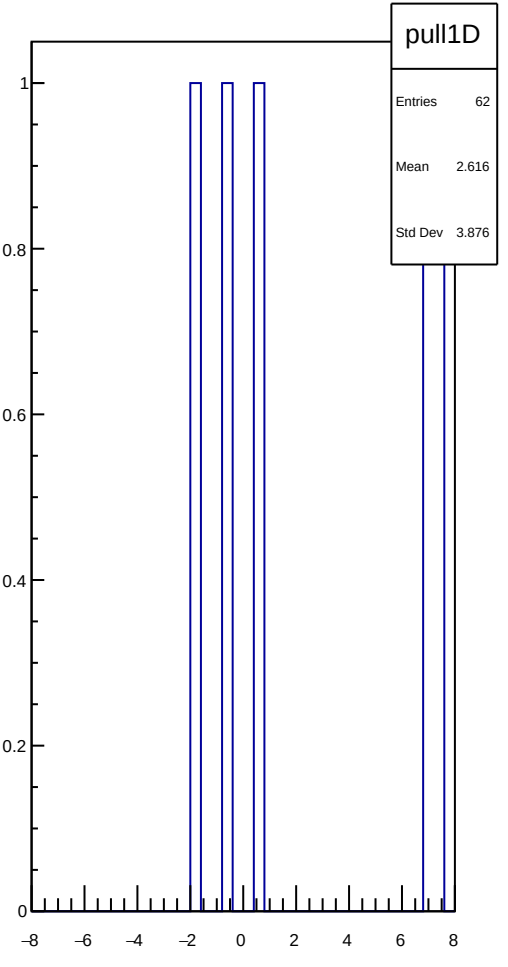

yield_bpm4aX_rms vs run
χ² / ndf 2.143e+05 / 61
p0 0.01784 ± 1.821e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

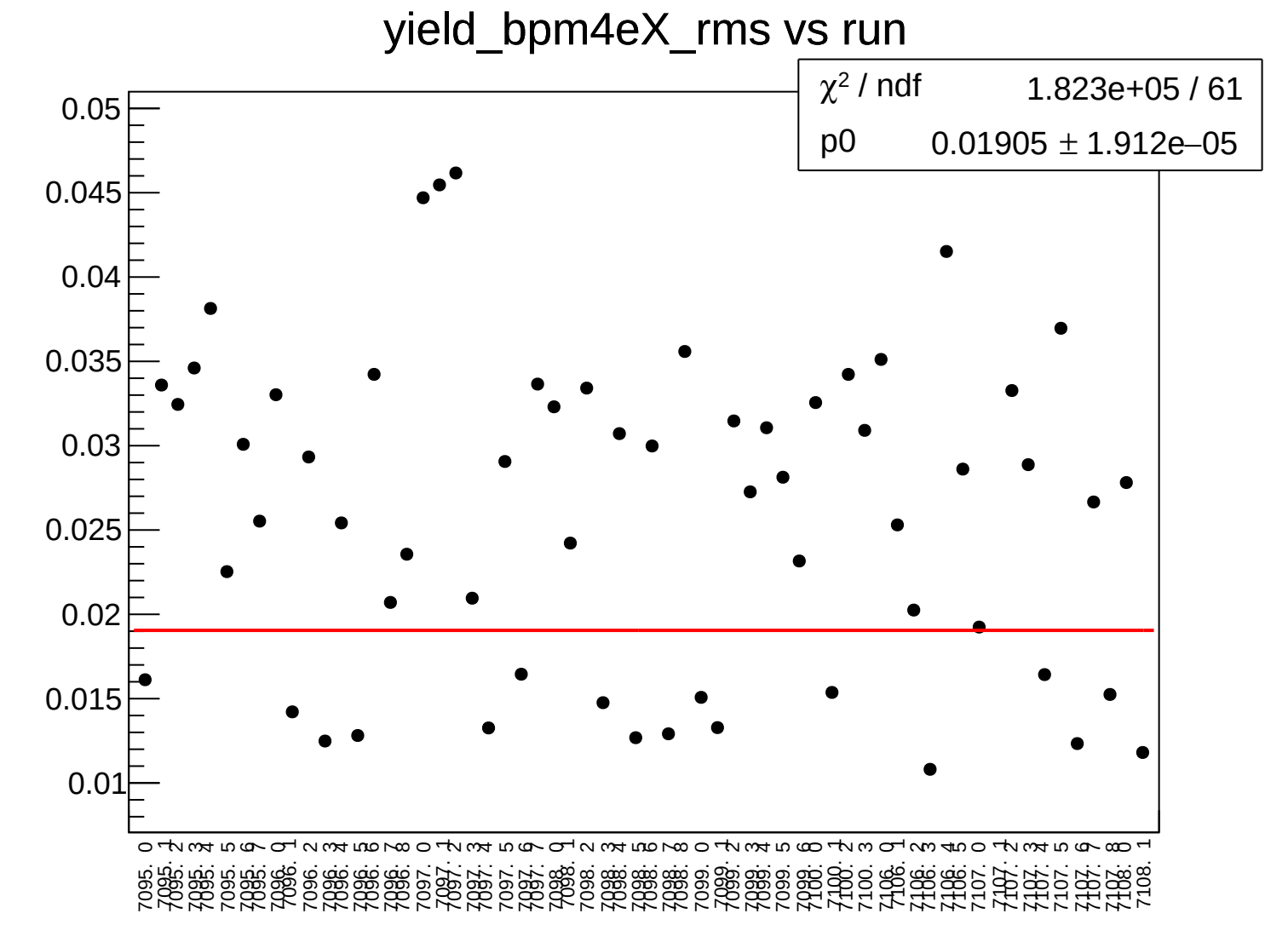

yield_bpm4aY_mean vs run
χ² / ndf 8.337e+04 / 61
p0 0.625 ± 1.636e−05
0.64
0.635
0.63
0.625
0.62
0.615
pull
Entries 62
Mean −1599
Std Dev 1632
80
60
40
20
0
−20
−40
−60
−80

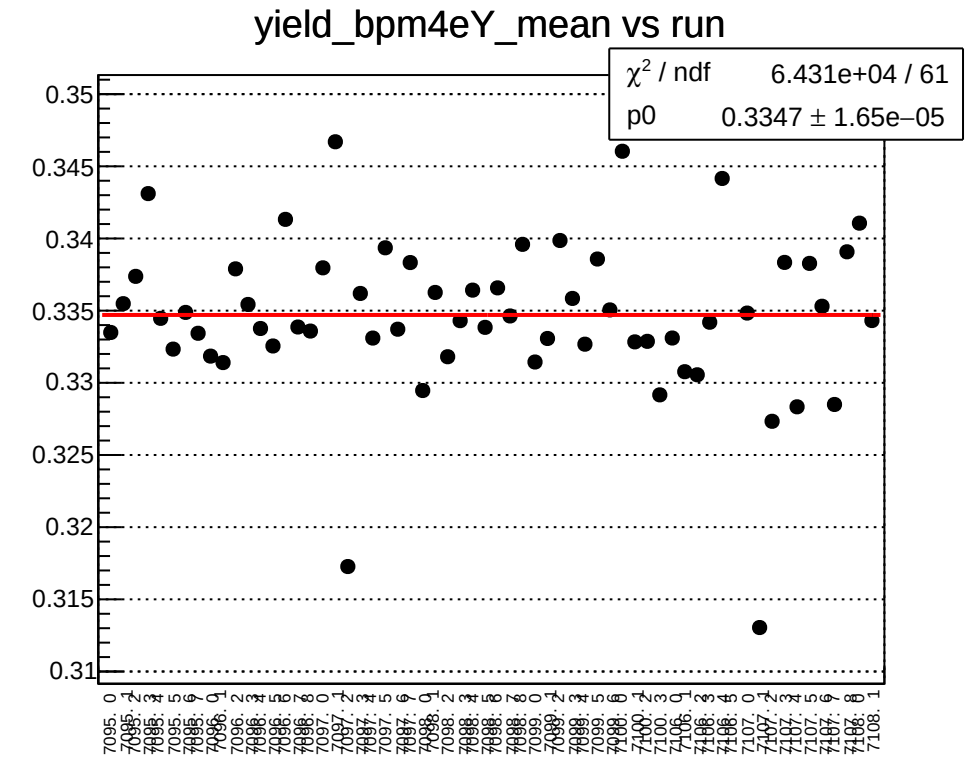

pull1D
Entries 62
Mean −0.6669
Std Dev 3.71
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

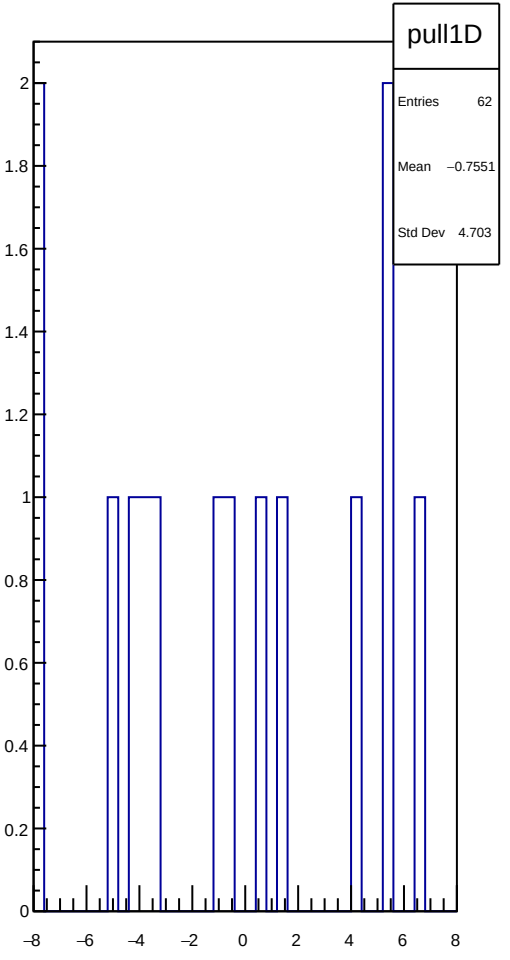

yield_bpm4aY_rms vs run
χ² / ndf 2.464e+04 / 61
p0 0.0124 ± 1.157e−05
0.03
0.025
0.02
0.015
0.01

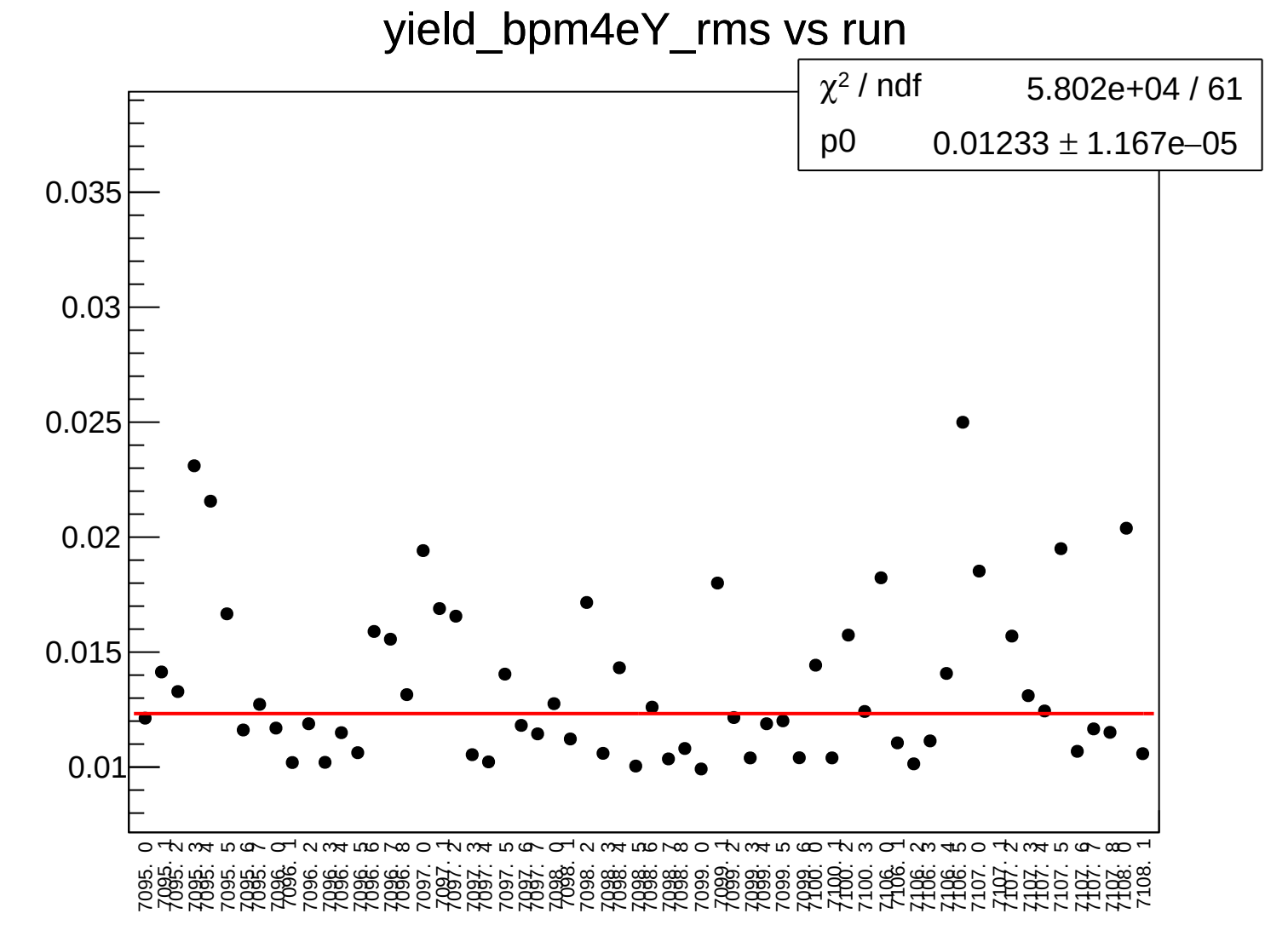

yield_bpm4eX_mean vs run
χ² / ndf 1.834e+05 / 61
p0 −0.03592 ± 2.705e−05
0.02
0
−0.02
−0.04
−0.06
−0.08
pull
Entries 62
Mean 61.71
Std Dev 23.56
100
50
0
−50
−100

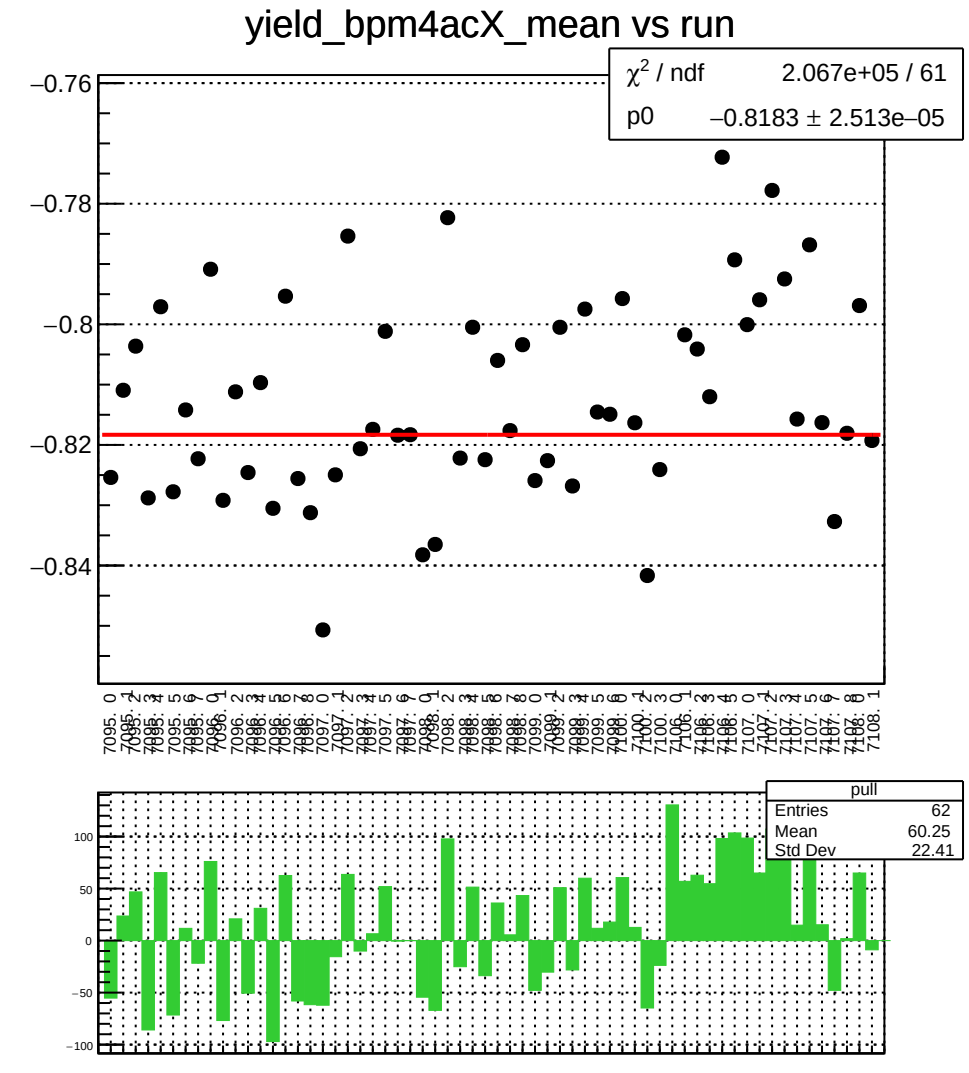

pull1D
Entries 62
Mean 2.616
Std Dev 3.876
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

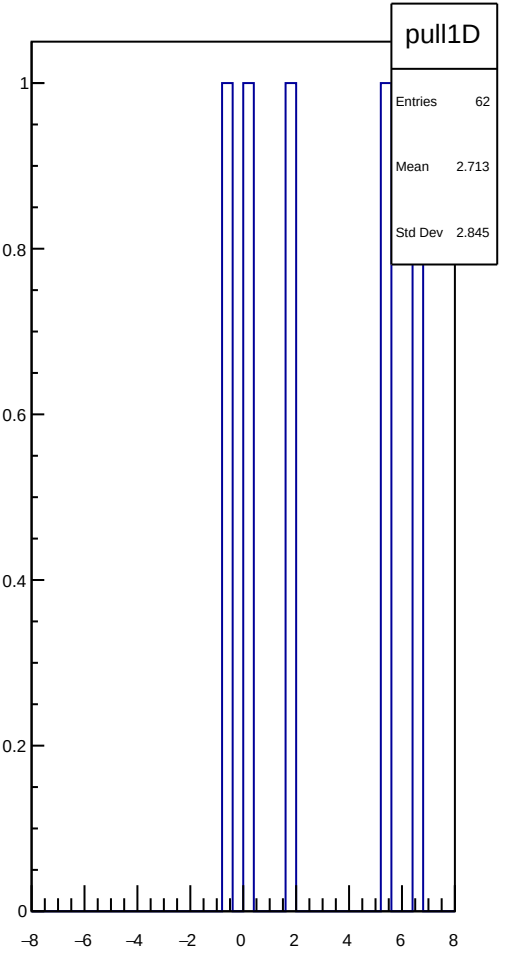

yield_bpm4eX_rms vs run
χ² / ndf 1.823e+05 / 61
p0 0.01905 ± 1.912e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

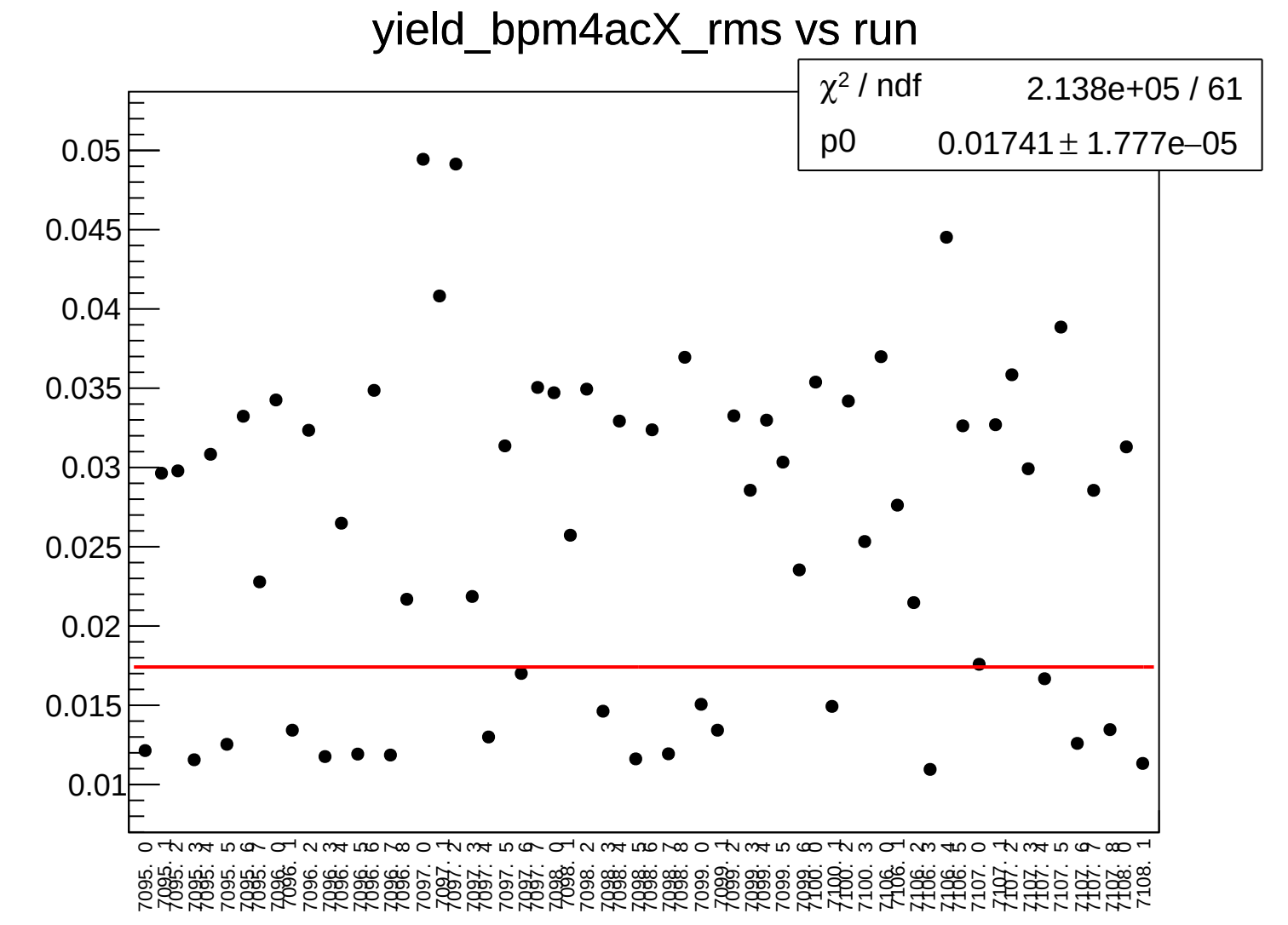

yield_bpm4eY_mean vs run
χ² / ndf 6.431e+04 / 61
p0 0.3347 ± 1.65e−05
0.35
0.345
0.34
0.335
0.33
0.325
0.32
0.315
0.31
pull
Entries 62
Mean 12.27
Std Dev 19.06
80
60
40
20
0
−20
−40
−60
−80
−100

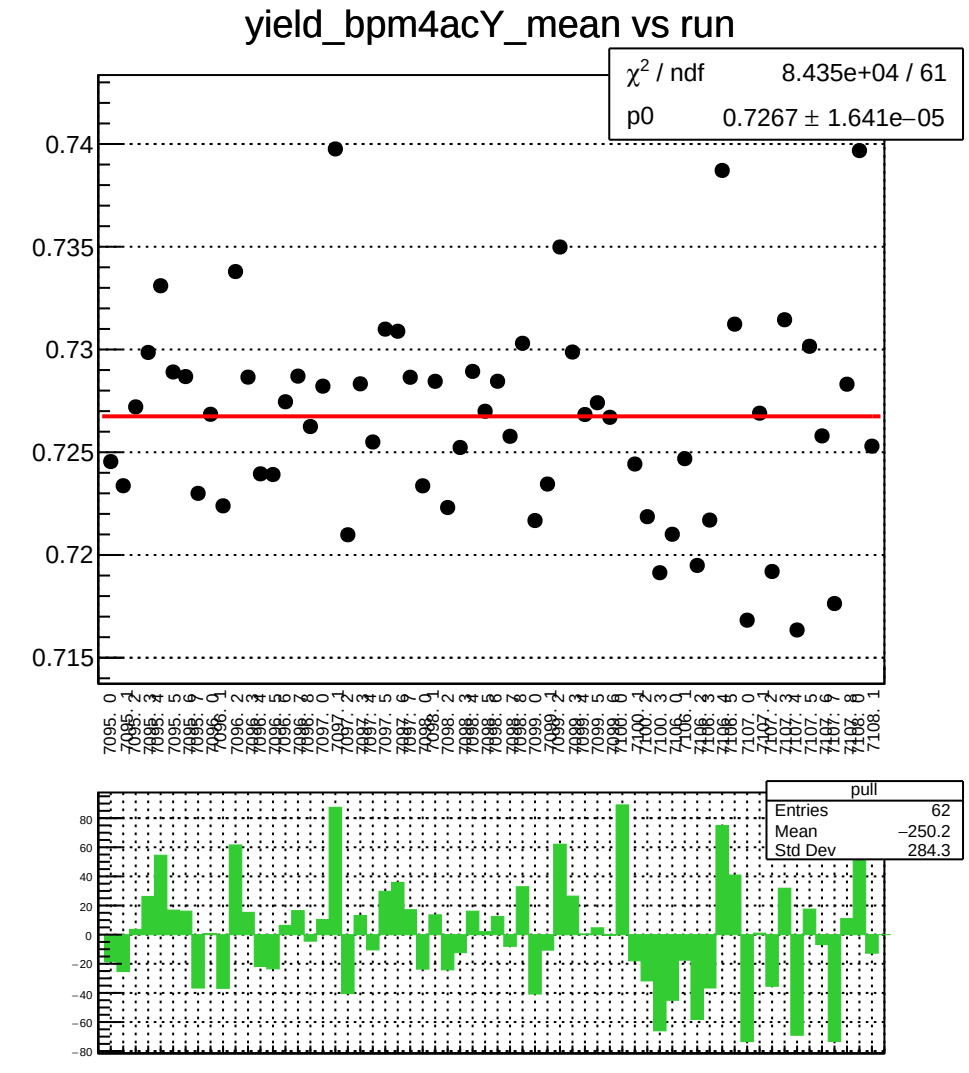

pull1D
Entries 62
Mean −0.7551
Std Dev 4.703
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

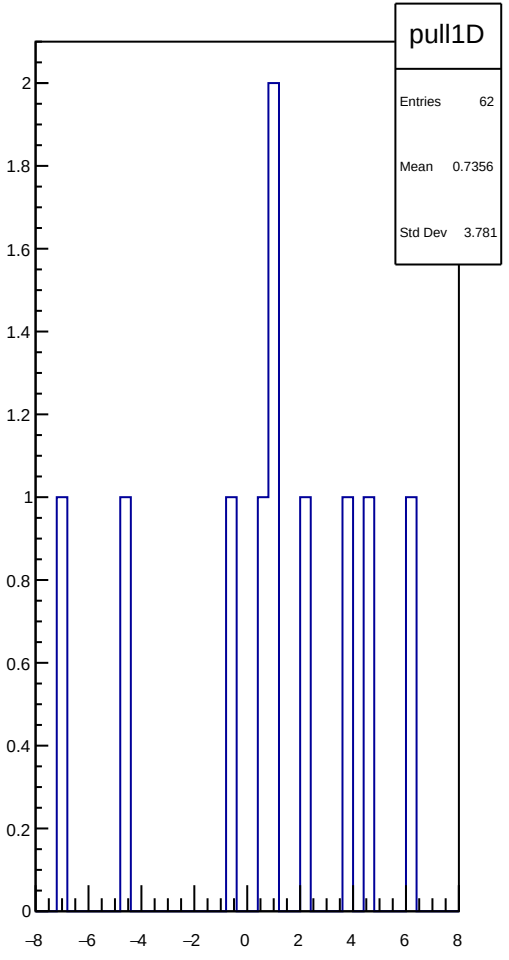

yield_bpm4eY_rms vs run
χ² / ndf 5.802e+04 / 61
p0 0.01233 ± 1.167e−05
0.035
0.03
0.025
0.02
0.015
0.01

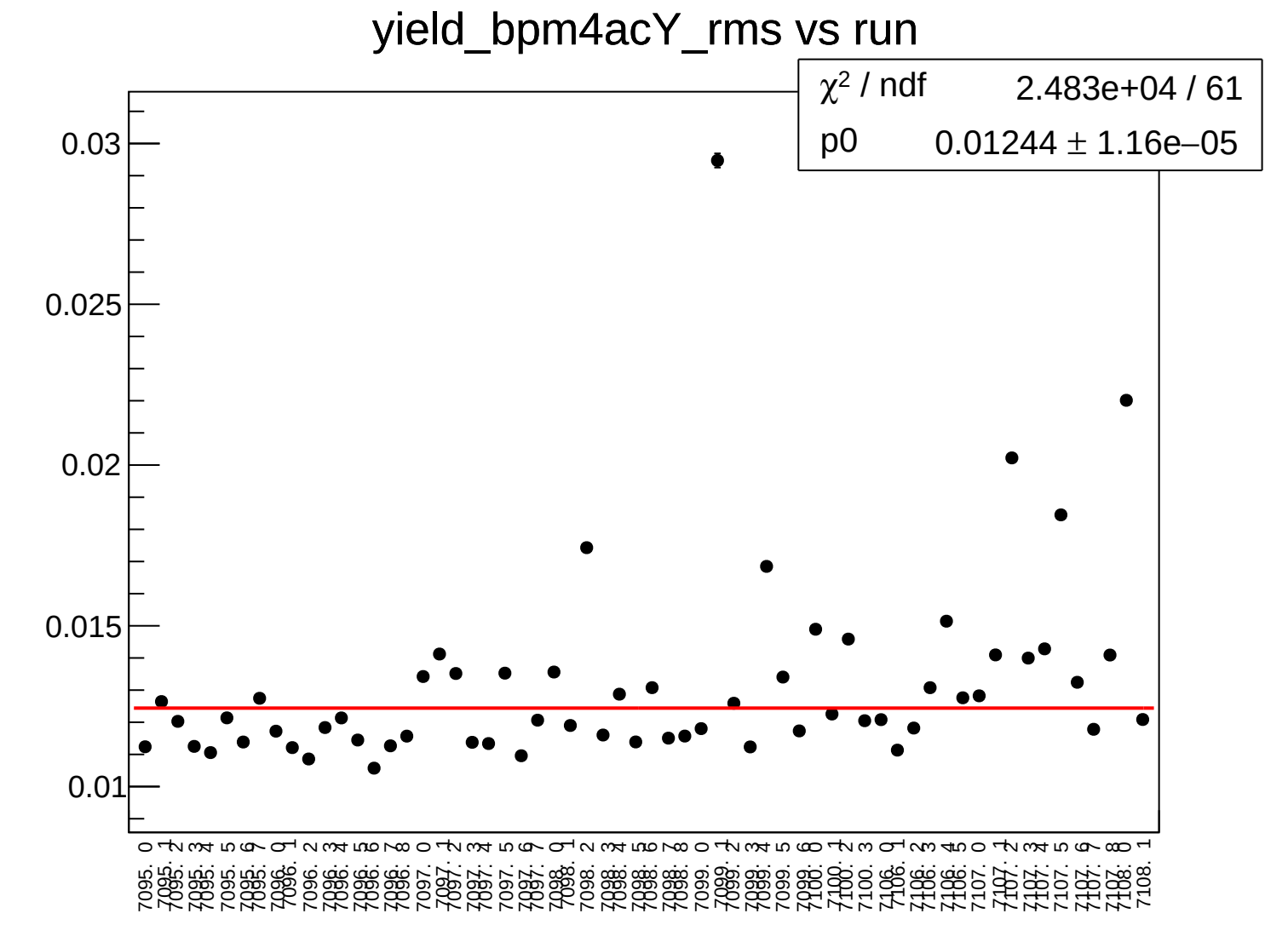

yield_bpm4acX_mean vs run
χ² / ndf 2.067e+05 / 61
p0 −0.8183 ± 2.513e−05
−0.76
−0.78
−0.8
−0.82
−0.84
pull
Entries 62
Mean 60.25
Std Dev 22.41
100
50
0
−50
−100

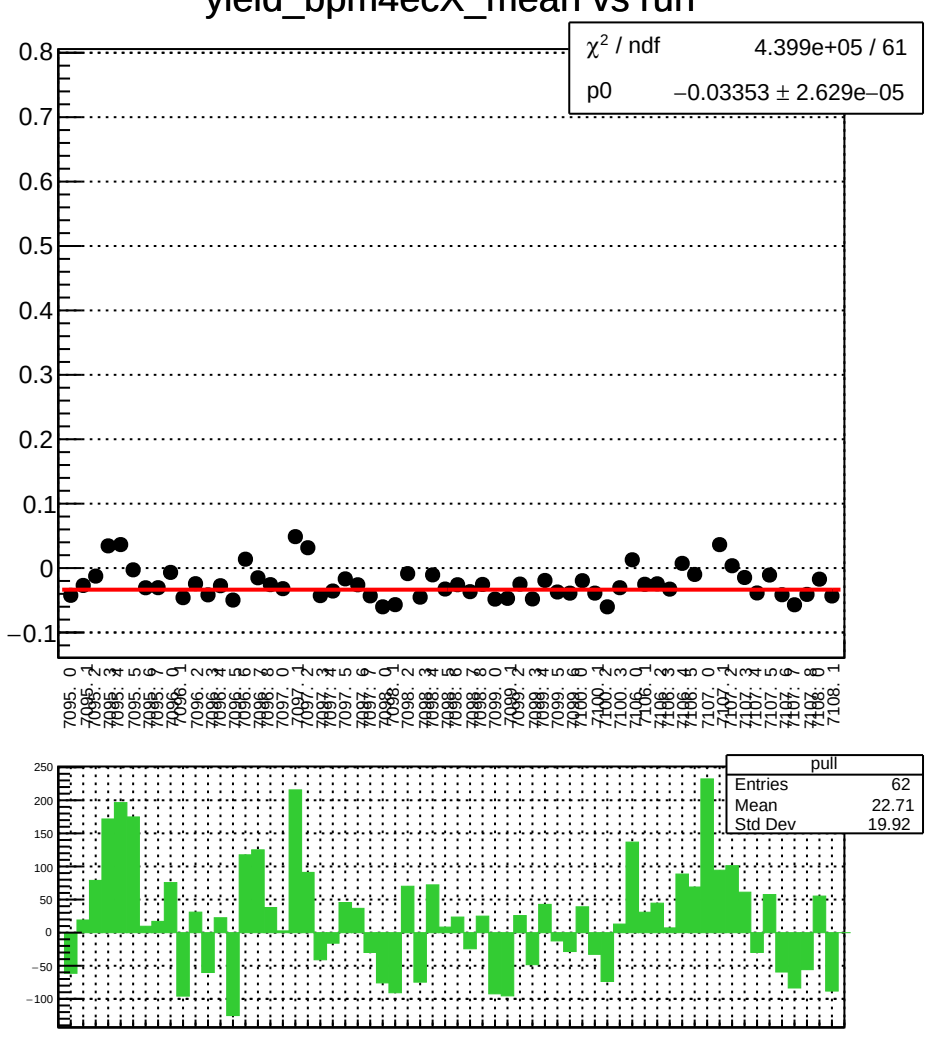

pull1D
Entries 62
Mean 2.713
Std Dev 2.845
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

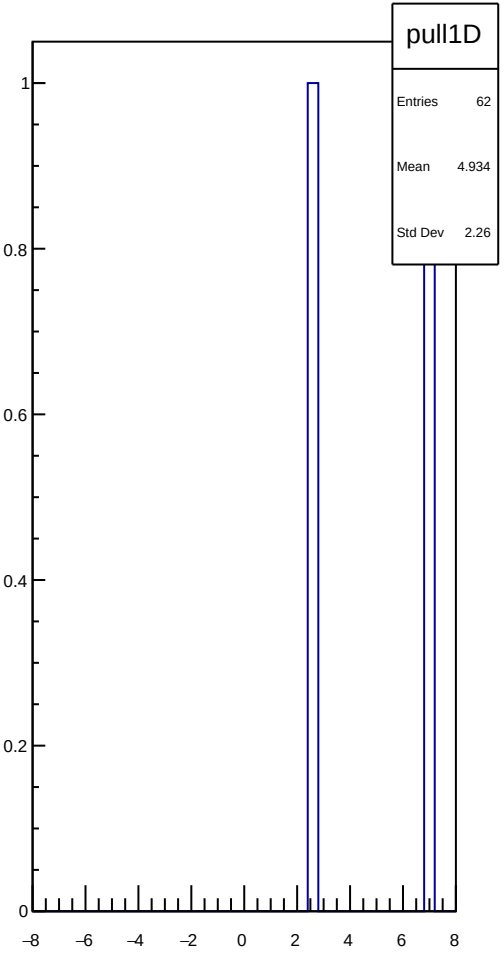

yield_bpm4acX_rms vs run
χ² / ndf 2.138e+05 / 61
p0 0.01741 ± 1.777e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

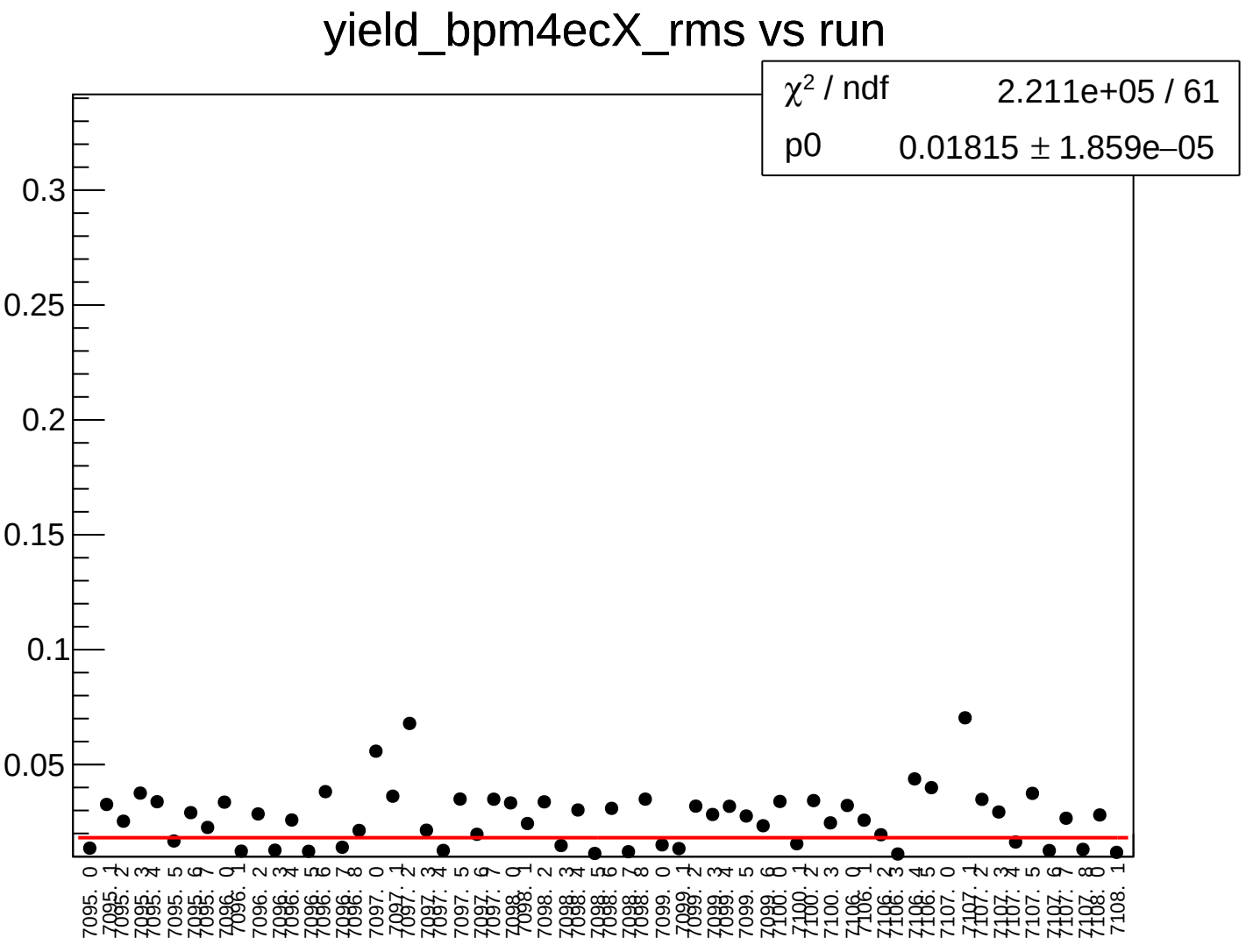

yield_bpm4acY_mean vs run
χ² / ndf 8.435e+04 / 61
p0 0.7267 ± 1.641e−05
0.74
0.735
0.73
0.725
0.72
0.715
pull
Entries 62
Mean −250.2
Std Dev 284.3
80
60
40
20
0
−20
−40
−60
−80

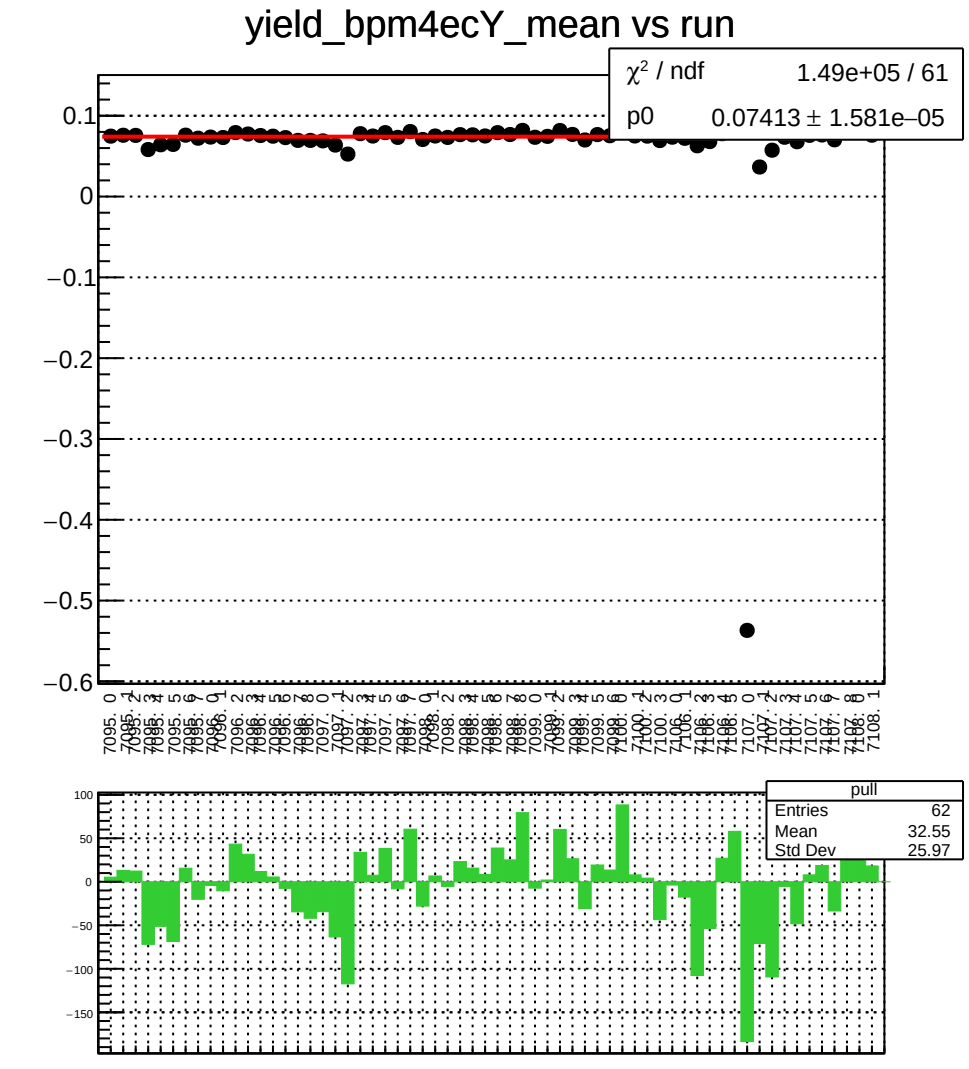

pull1D
Entries 62
Mean 0.7356
Std Dev 3.781
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

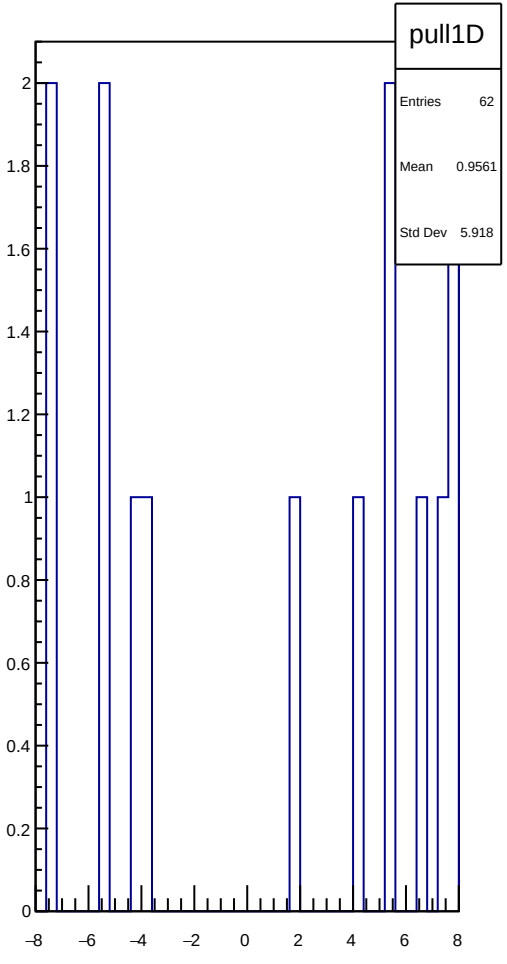

yield_bpm4acY_rms vs run
χ² / ndf 2.483e+04 / 61
p0 0.01244 ± 1.16e−05
0.03
0.025
0.02
0.015
0.01

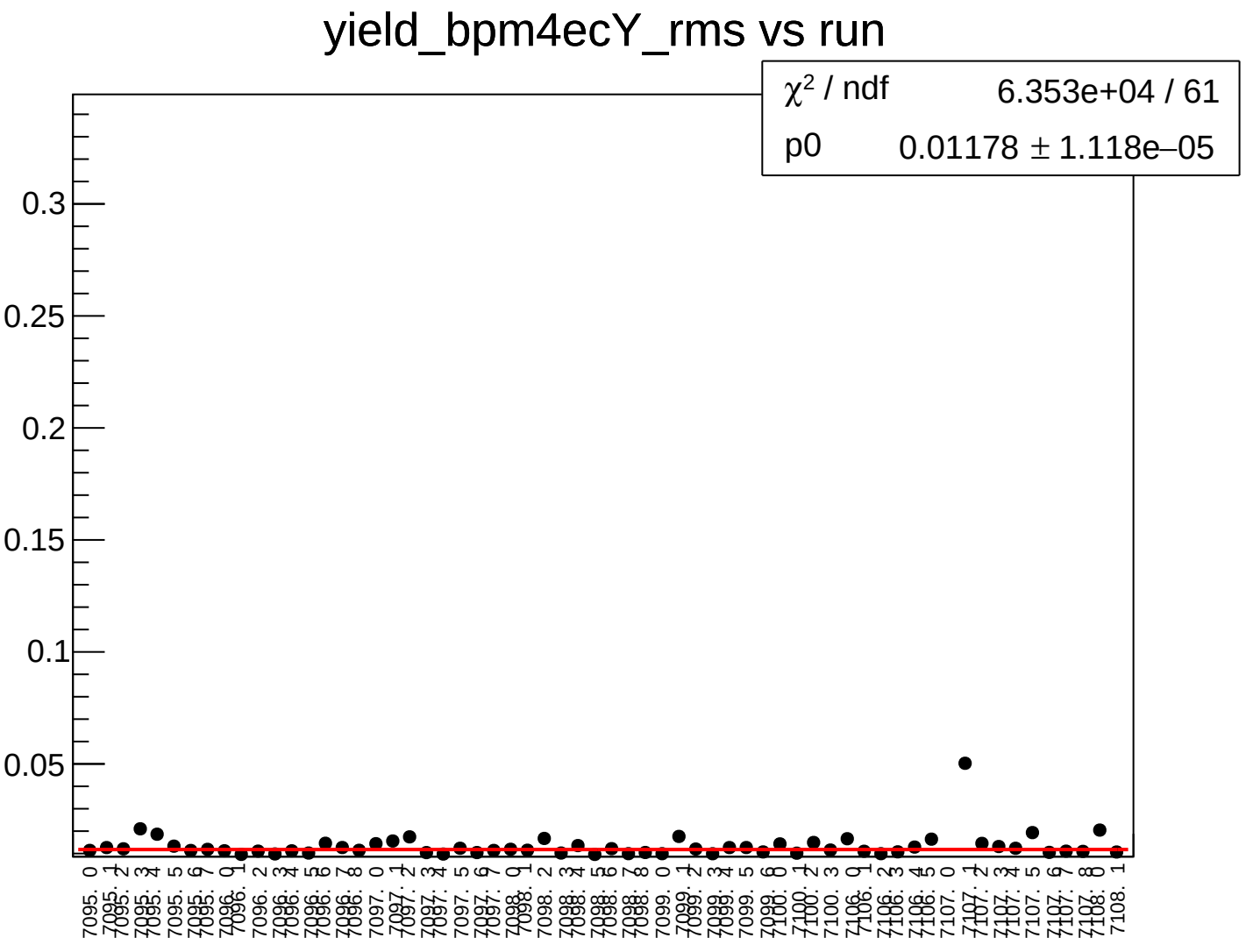

yield_bpm4ecX_mean vs run
χ² / ndf 4.399e+05 / 61
p0 −0.03353 ± 2.629e−05
pull
Entries 62
Mean 22.71
Std Dev 19.92

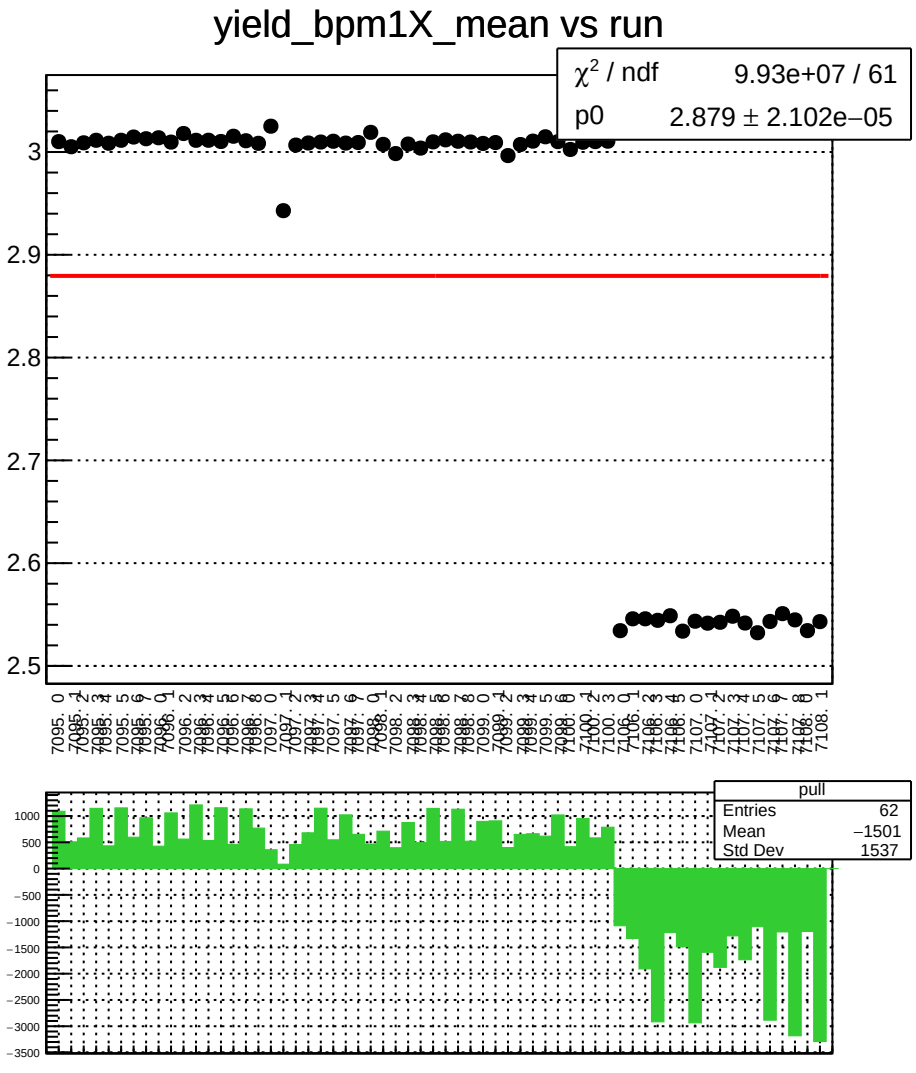

pull1D
Entries 62
Mean 4.934
Std Dev 2.26

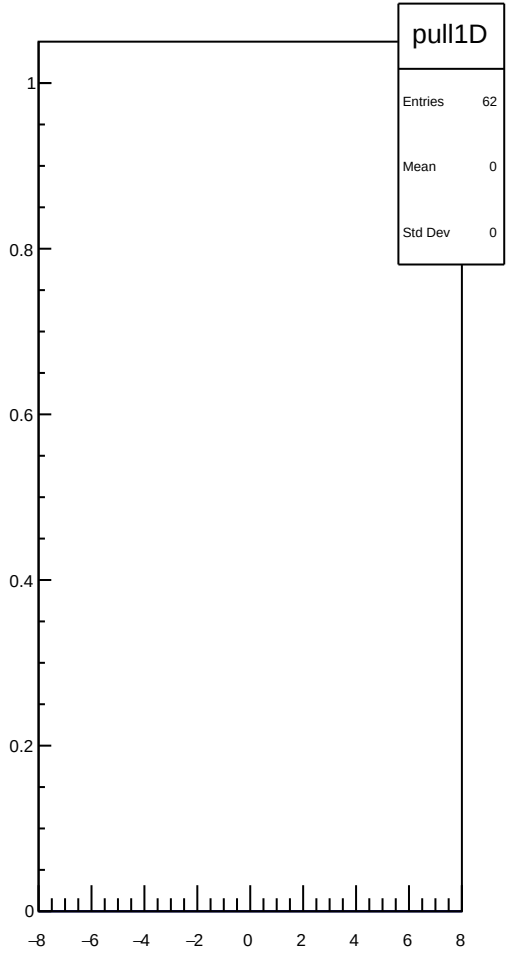

yield_bpm4ecX_rms vs run
χ² / ndf 2.211e+05 / 61
p0 0.01815 ± 1.859e−05
0.3
0.25
0.2
0.15
0.1
0.05

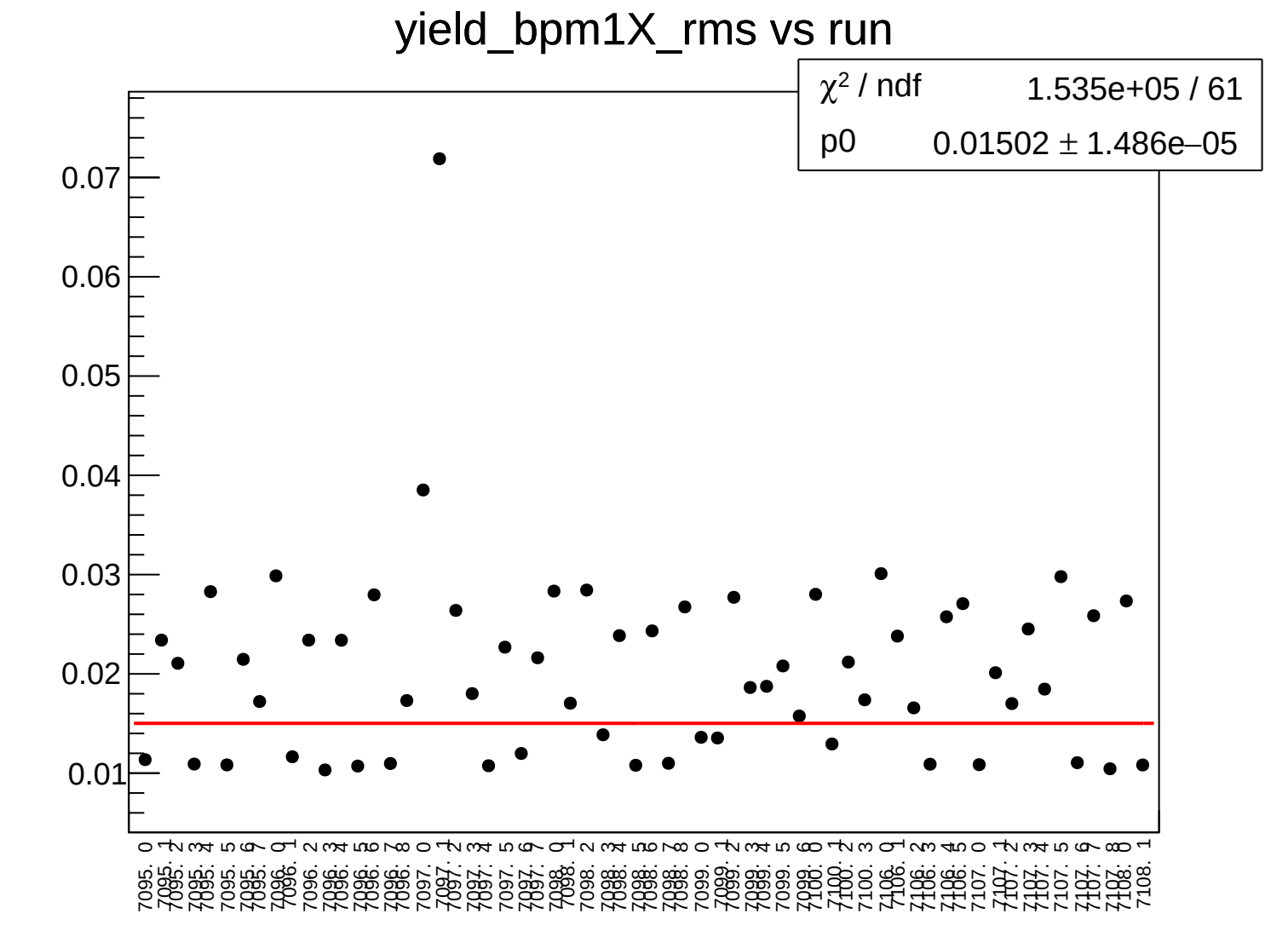

yield_bpm4ecY_mean vs run
χ² / ndf 1.49e+05 / 61
p0 0.07413 ± 1.581e−05
pull
Entries 62
Mean 32.55
Std Dev 25.97

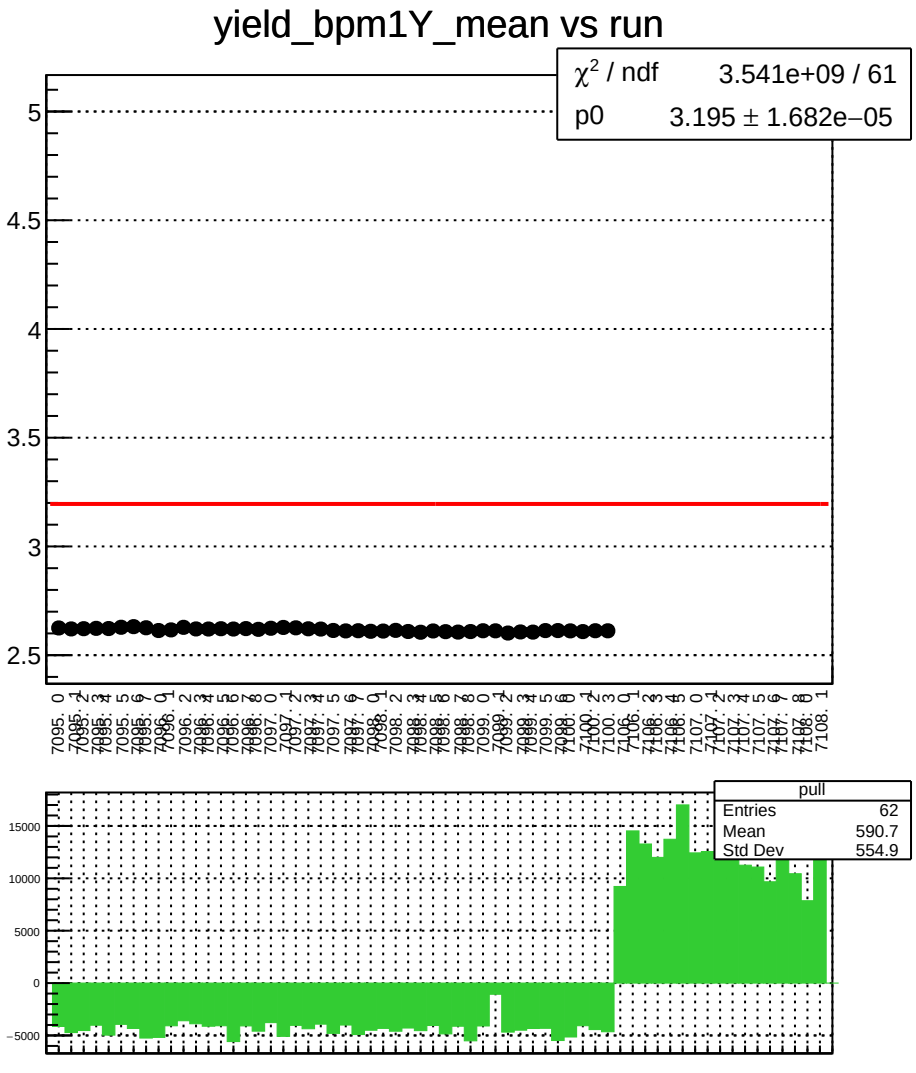

pull1D
Entries 62
Mean 0.9561
Std Dev 5.918

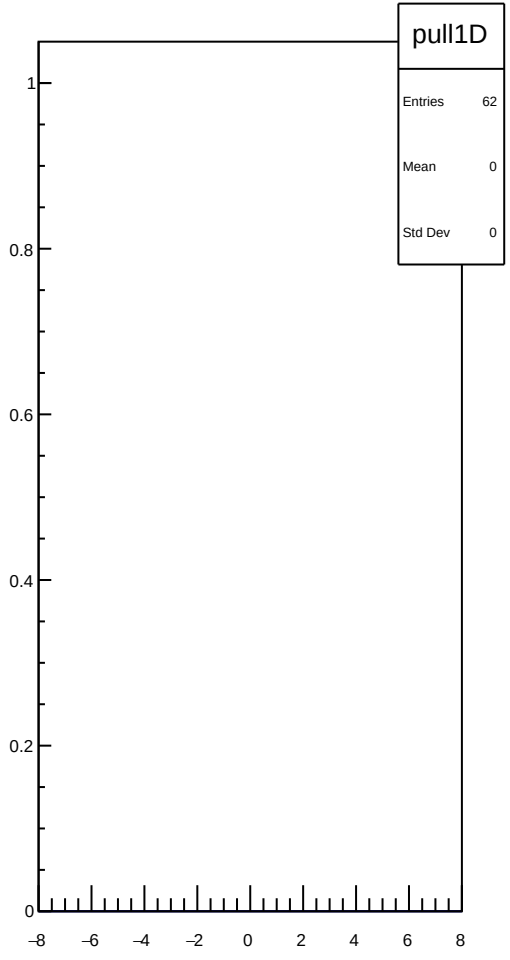

yield_bpm4ecY_rms vs run
χ² / ndf 6.353e+04 / 61
p0 0.01178 ± 1.118e−05
0.3
0.25
0.2
0.15
0.1
0.05

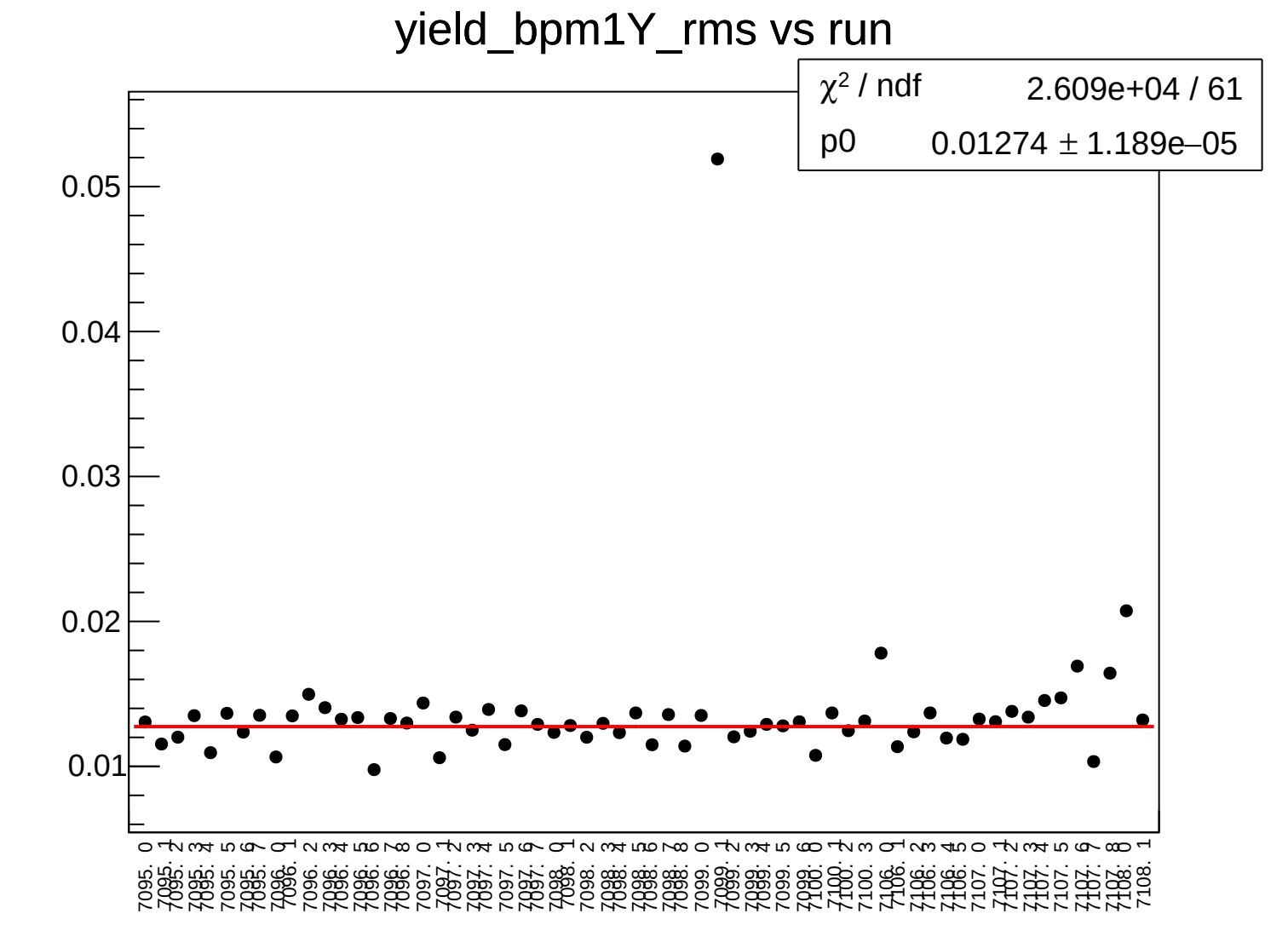

yield_bpm1X_mean vs run
χ² / ndf 9.93e+07 / 61
p0 2.879 ± 2.102e−05
pull
Entries 62
Mean −1501
Std Dev 1537

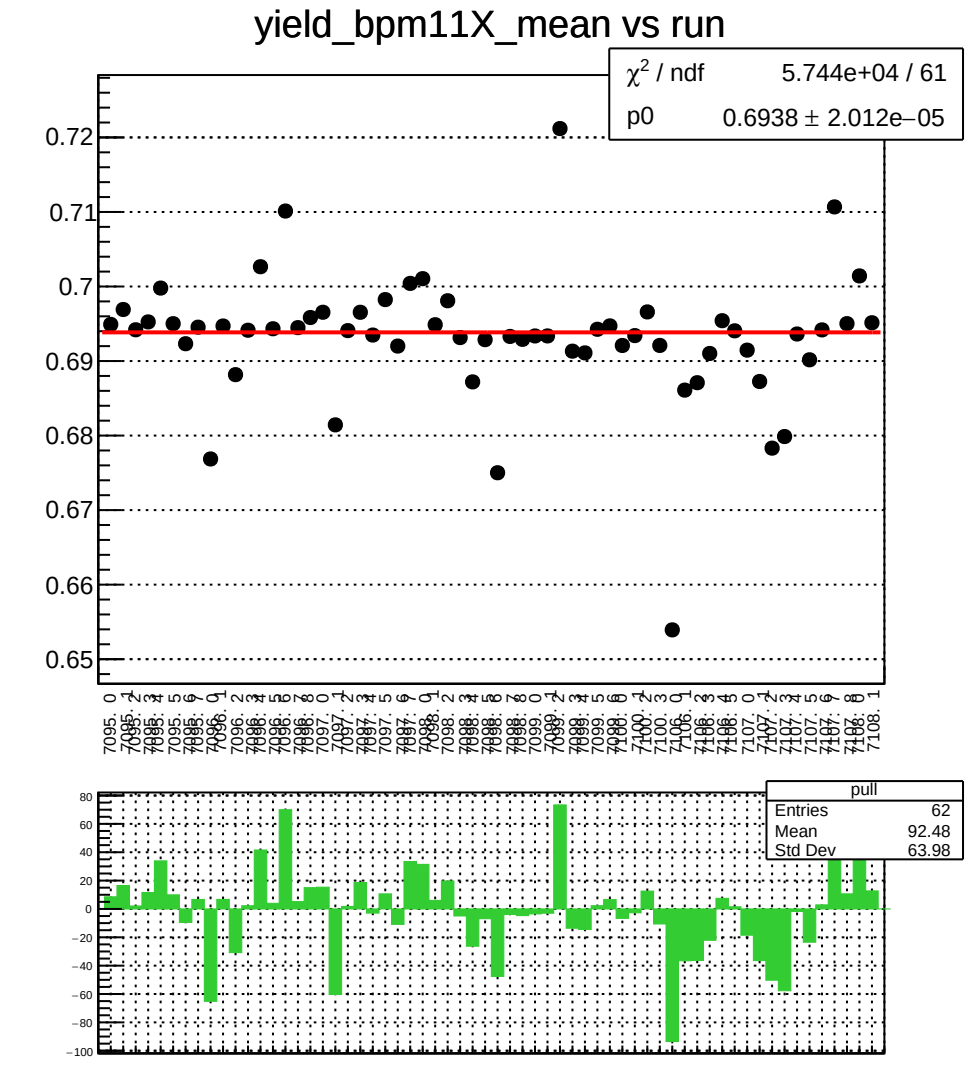

pull1D
Entries 62
Mean 0
Std Dev 0

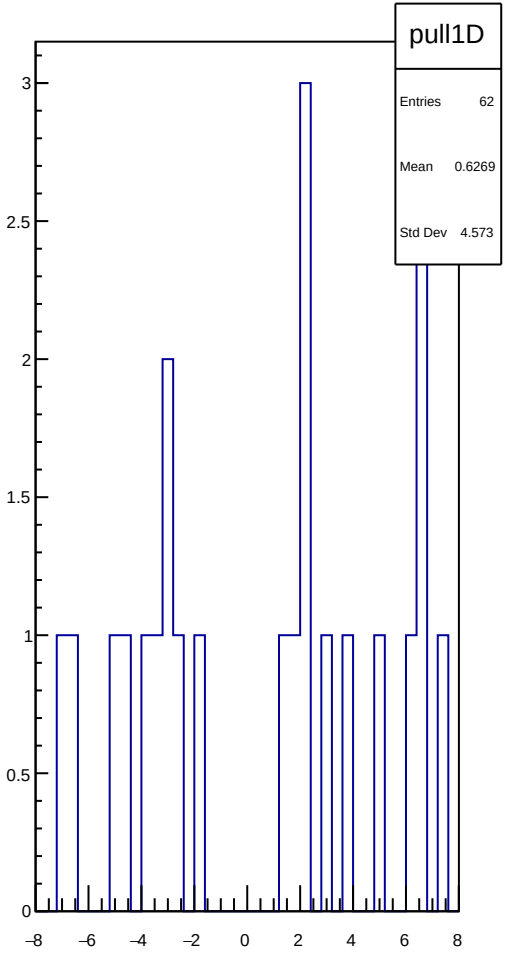

yield_bpm1X_rms vs run
χ² / ndf 1.535e+05 / 61
p0 0.01502 ± 1.486e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

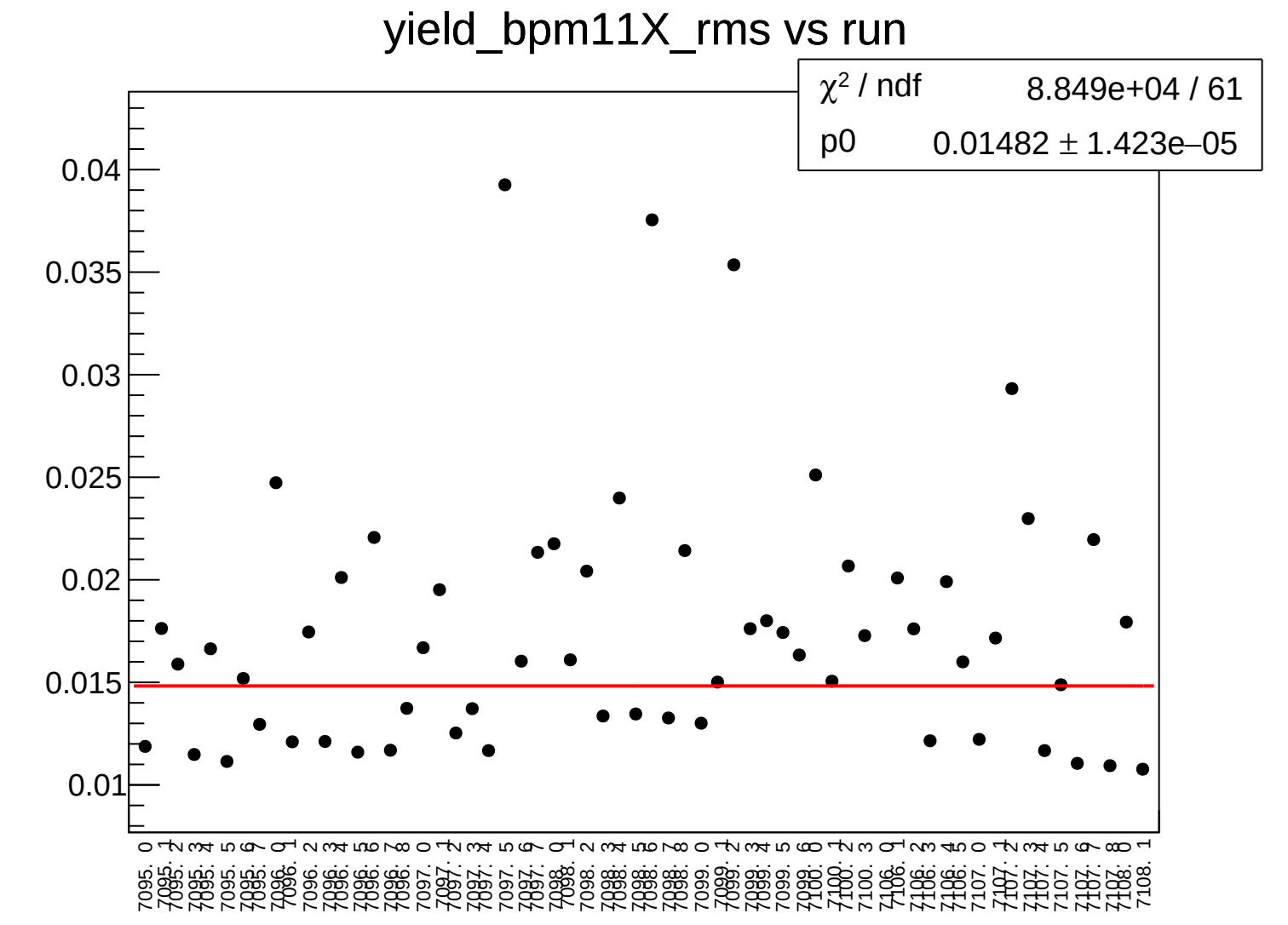

yield_bpm1Y_mean vs run
χ² / ndf 3.541e+09 / 61
p0 3.195 ± 1.682e−05
pull
Entries 62
Mean 590.7
Std Dev 554.9

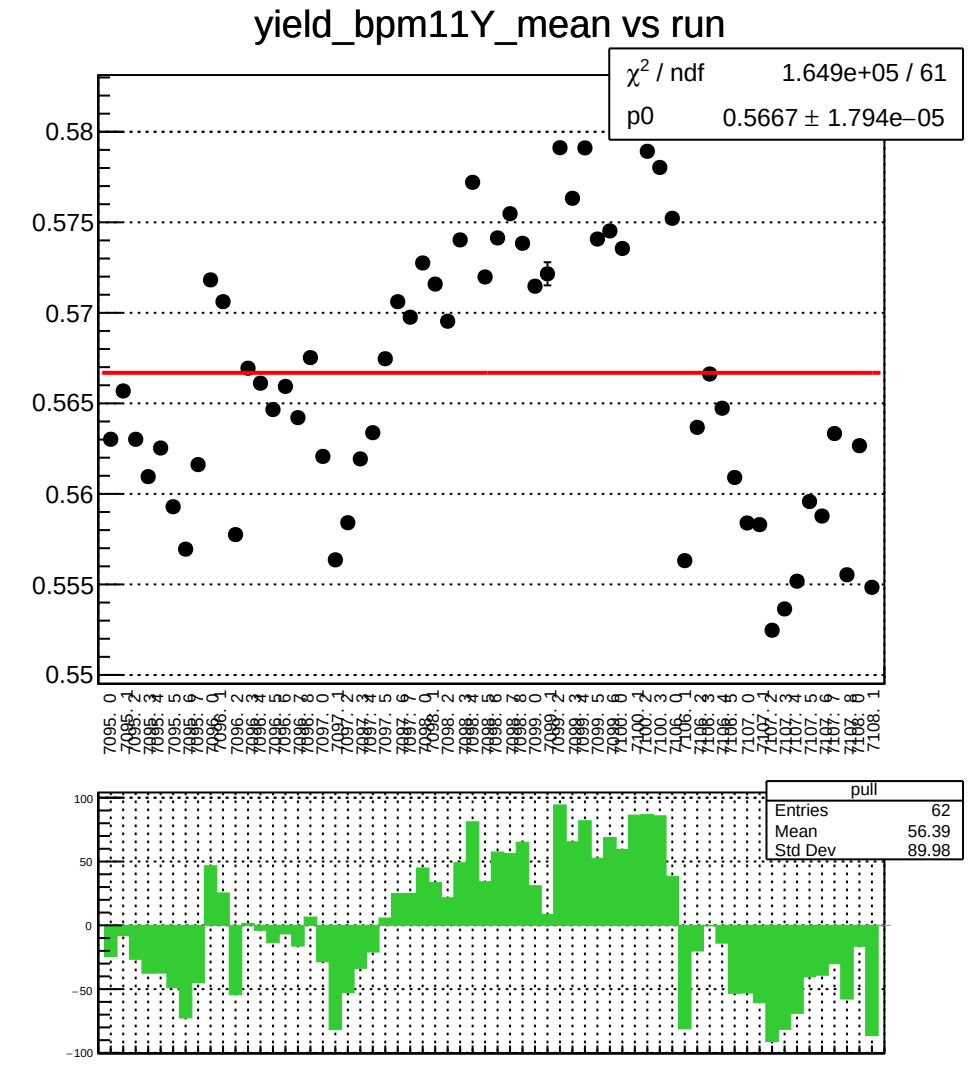

pull1D
Entries 62
Mean 0
Std Dev 0

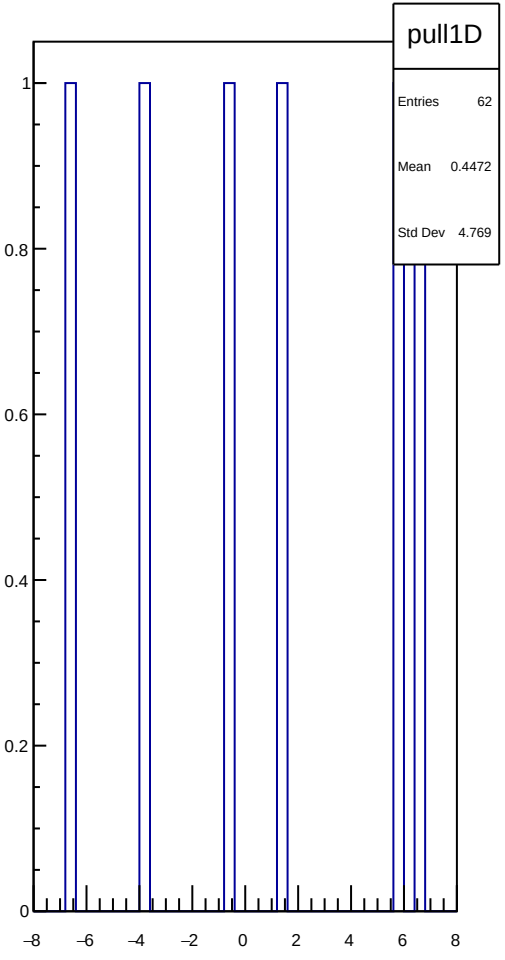

yield_bpm1Y_rms vs run
χ² / ndf 2.609e+04 / 61
p0 0.01274 ± 1.189e−05
0.05
0.04
0.03
0.02
0.01

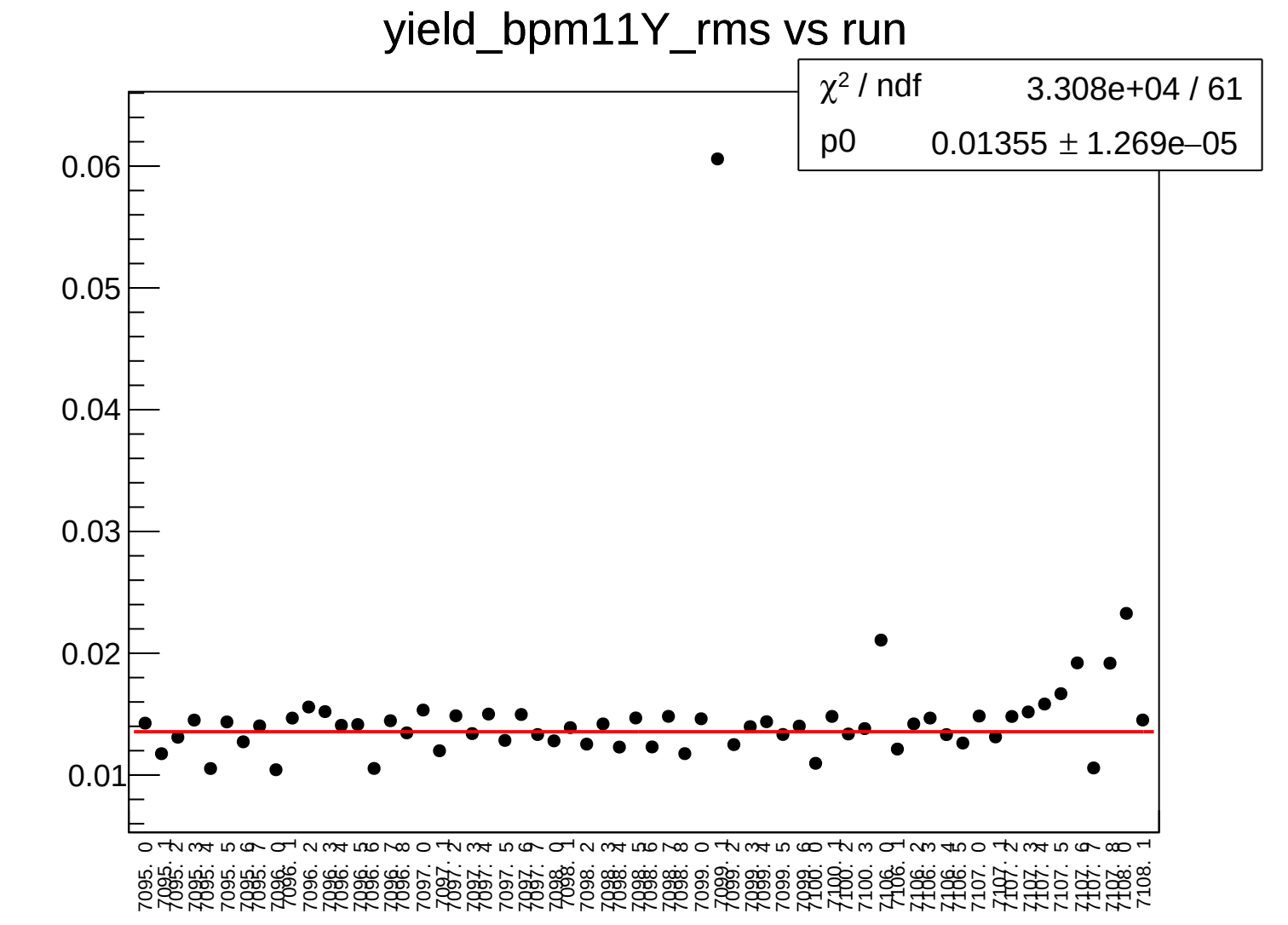

yield_bpm11X_mean vs run
χ² / ndf 5.744e+04 / 61
p0 0.6938 ± 2.012e−05
0.72
0.71
0.7
0.69
0.68
0.67
0.66
0.65
pull
Entries 62
Mean 92.48
Std Dev 63.98
80
60
40
20
0
−20
−40
−60
−80
−100

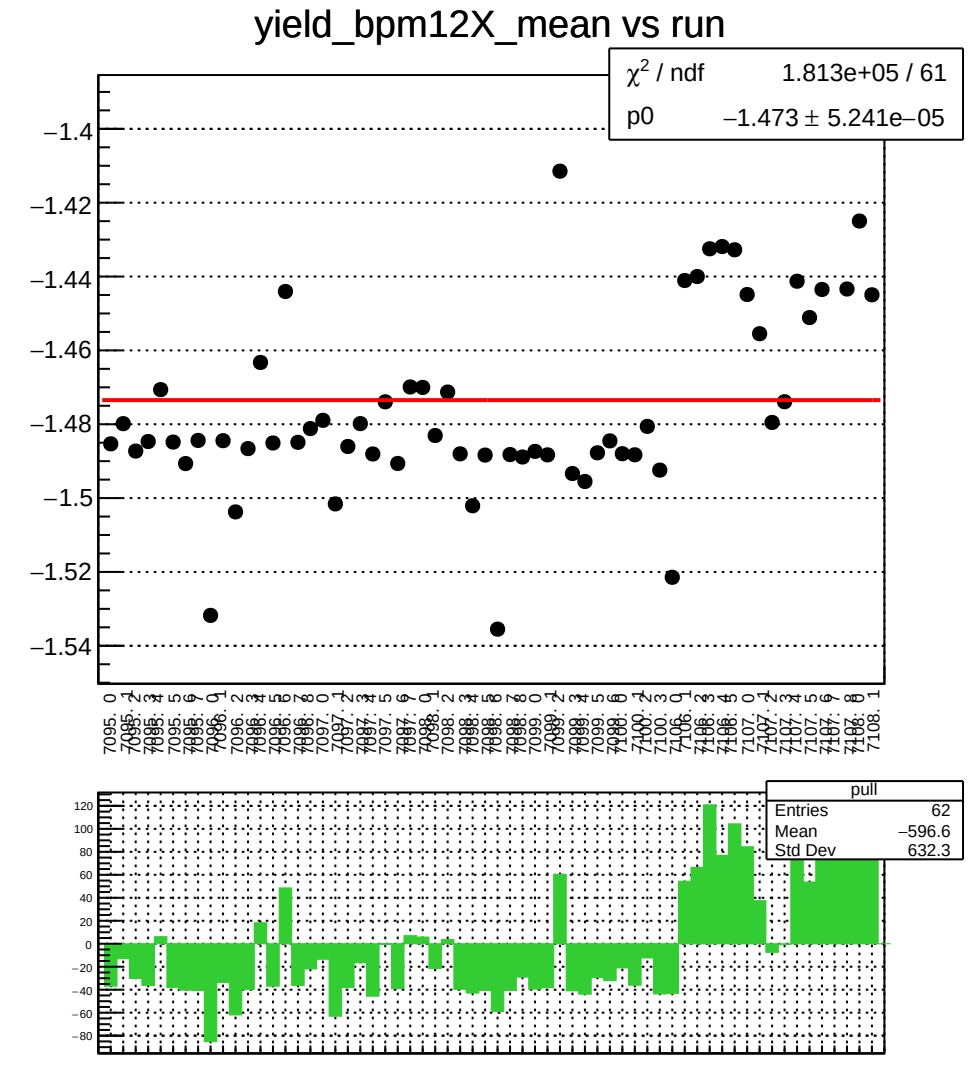

pull1D
Entries 62
Mean 0.6269
Std Dev 4.573
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

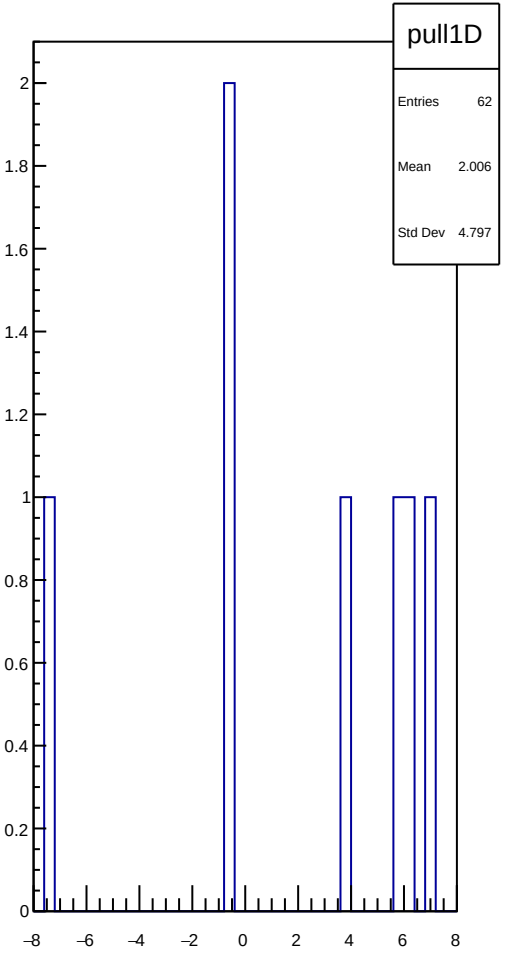

yield_bpm11X_rms vs run
χ² / ndf 8.849e+04 / 61
p0 0.01482 ± 1.423e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

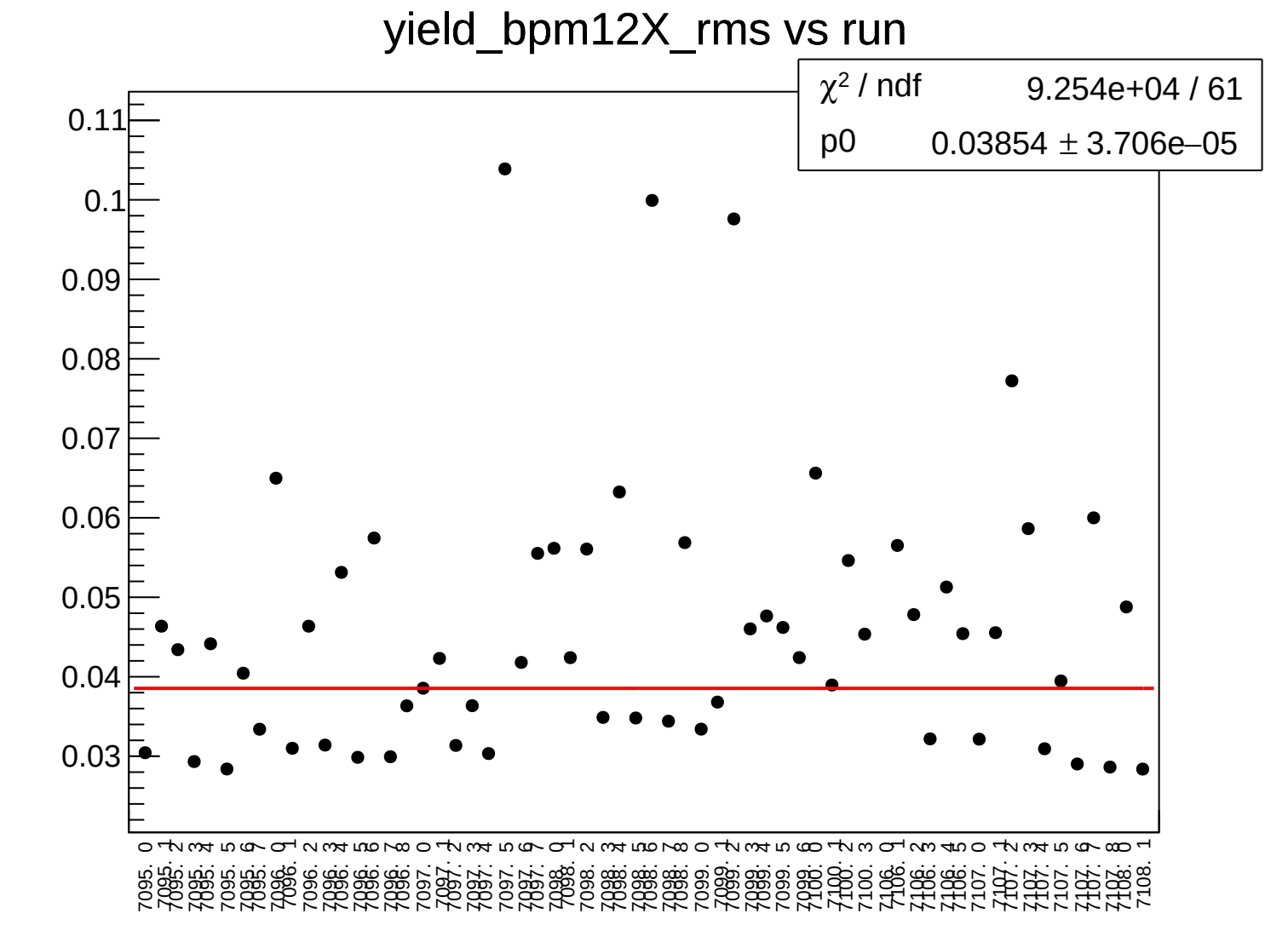

yield_bpm11Y_mean vs run
χ² / ndf 1.649e+05 / 61
p0 0.5667 ± 1.794e−05
pull
Entries 62
Mean 56.39
Std Dev 89.98

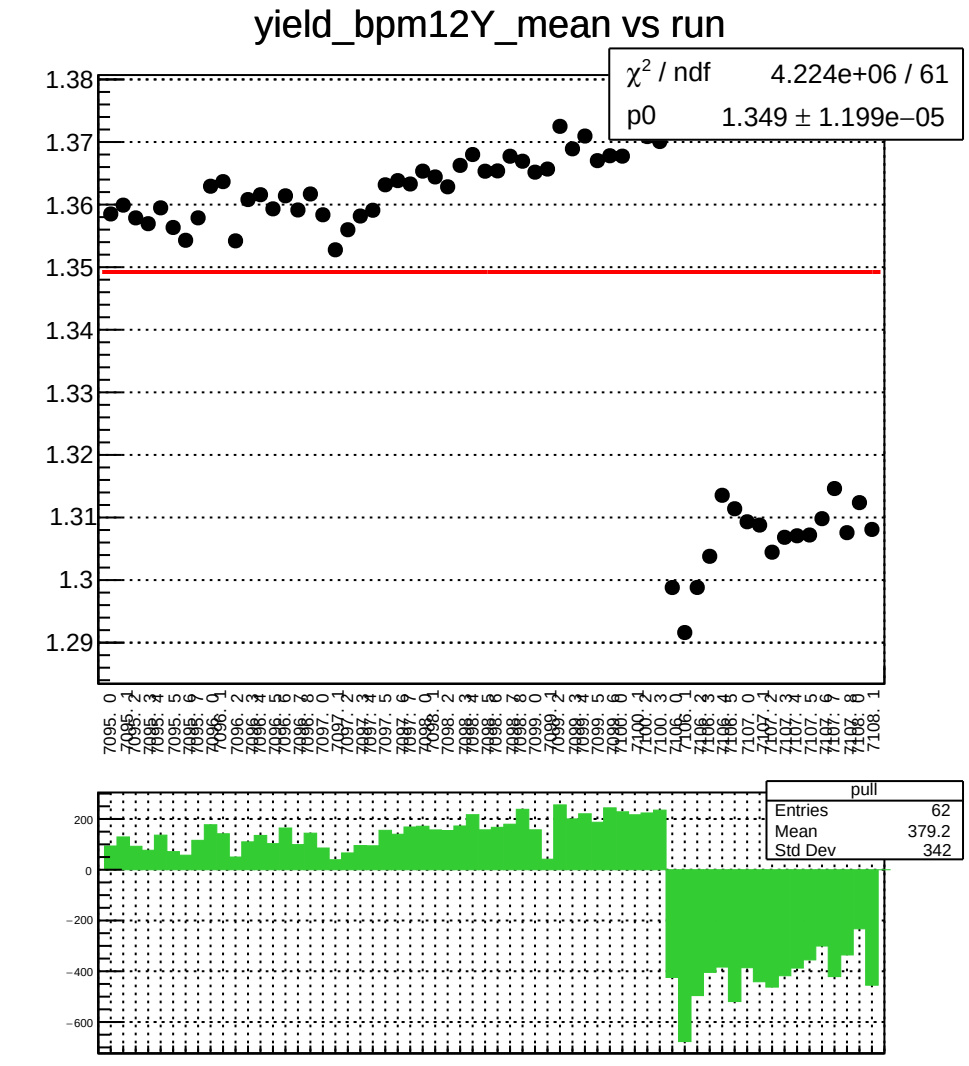

pull1D
Entries 62
Mean 0.4472
Std Dev 4.769

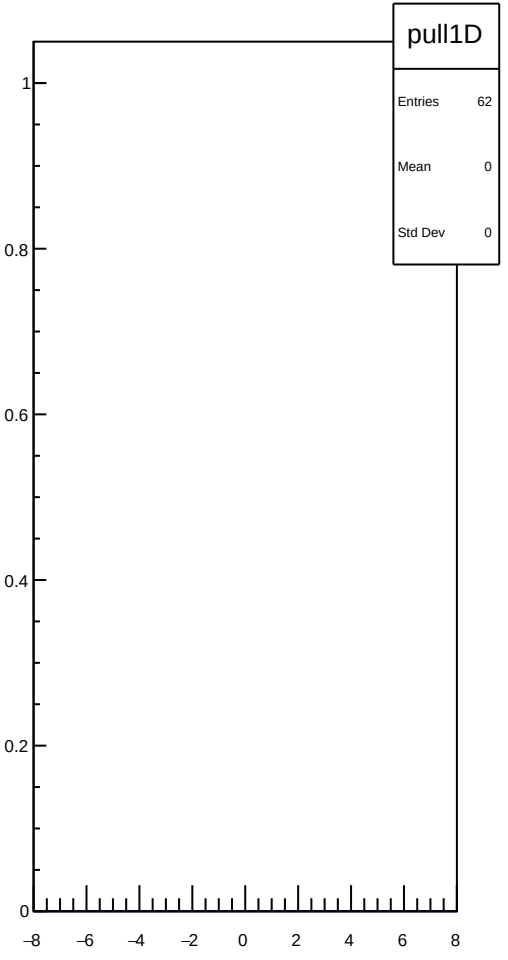

yield_bpm11Y_rms vs run
χ² / ndf 3.308e+04 / 61
p0 0.01355 ± 1.269e−05
0.06
0.05
0.04
0.03
0.02
0.01

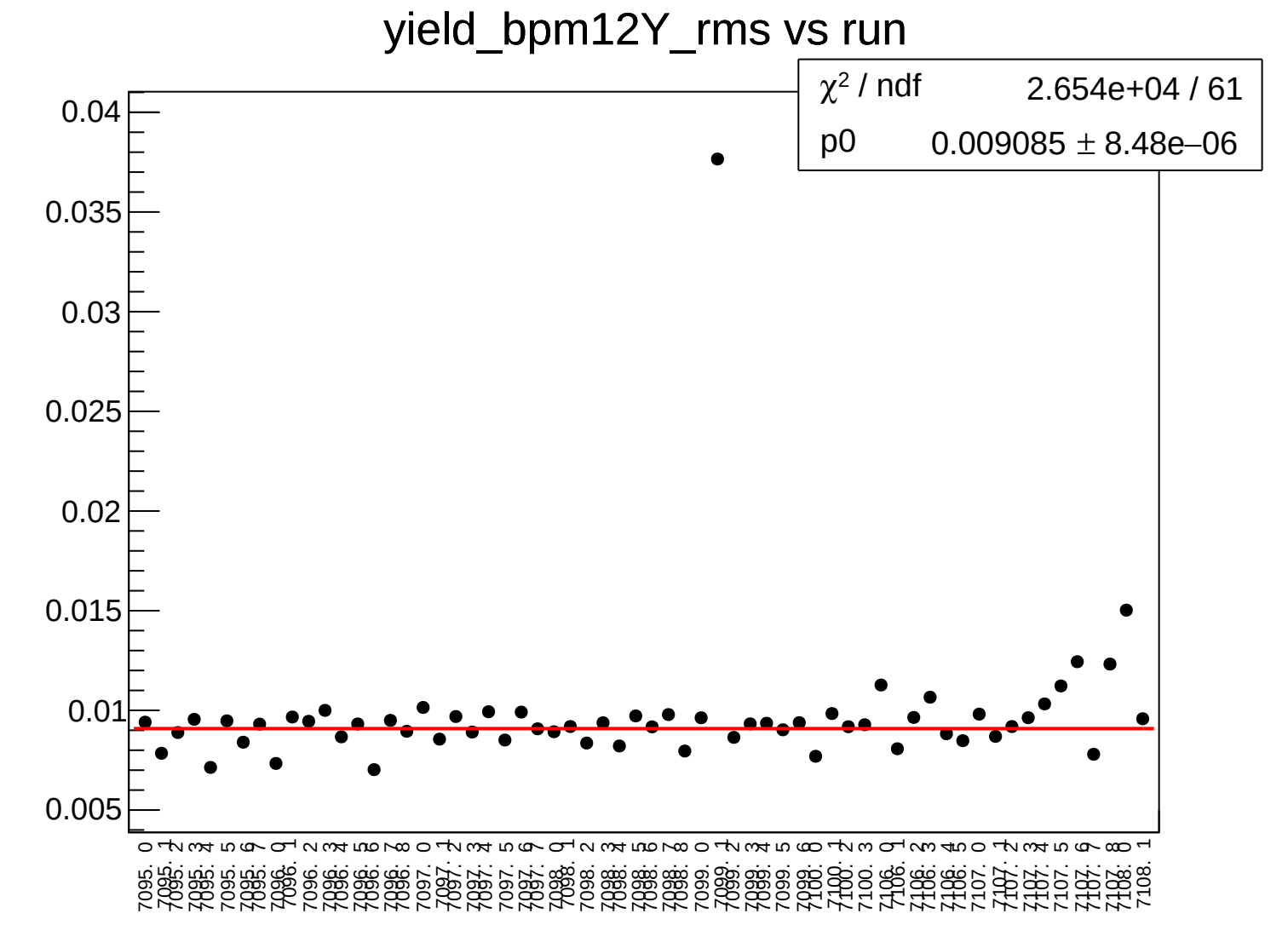

yield_bpm12X_mean vs run
χ² / ndf 1.813e+05 / 61
p0 −1.473 ± 5.241e−05
pull
Entries 62
Mean −596.6
Std Dev 632.3

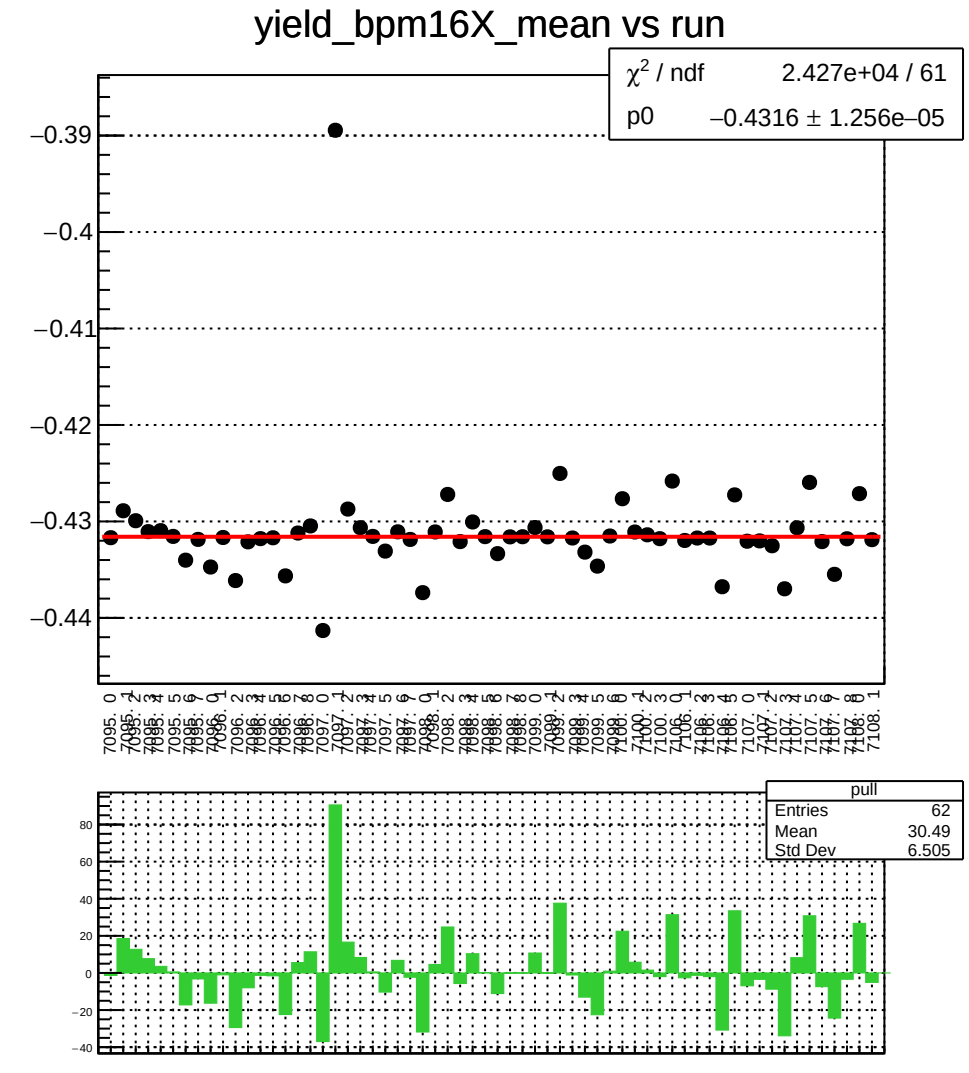

pull1D
Entries 62
Mean 2.006
Std Dev 4.797

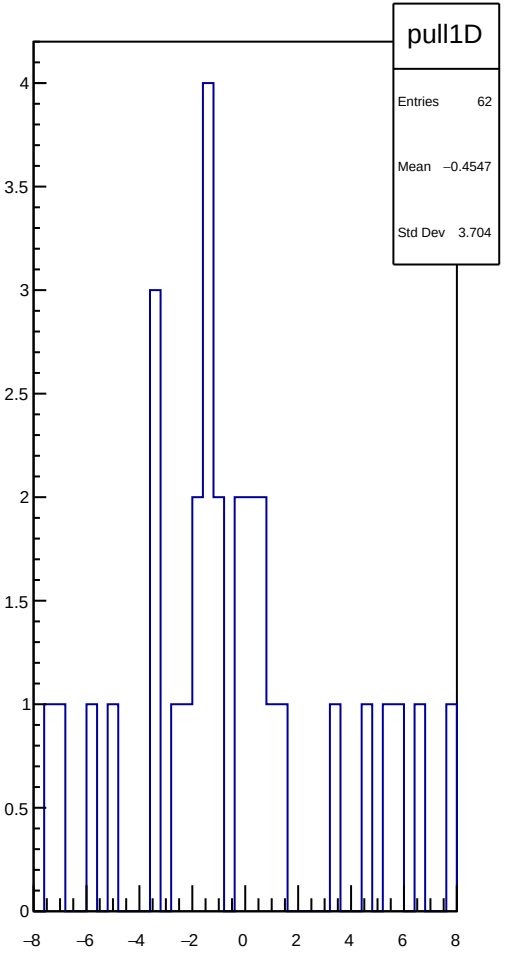

yield_bpm12X_rms vs run
χ² / ndf 9.254e+04 / 61
p0 0.03854 ± 3.706e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03

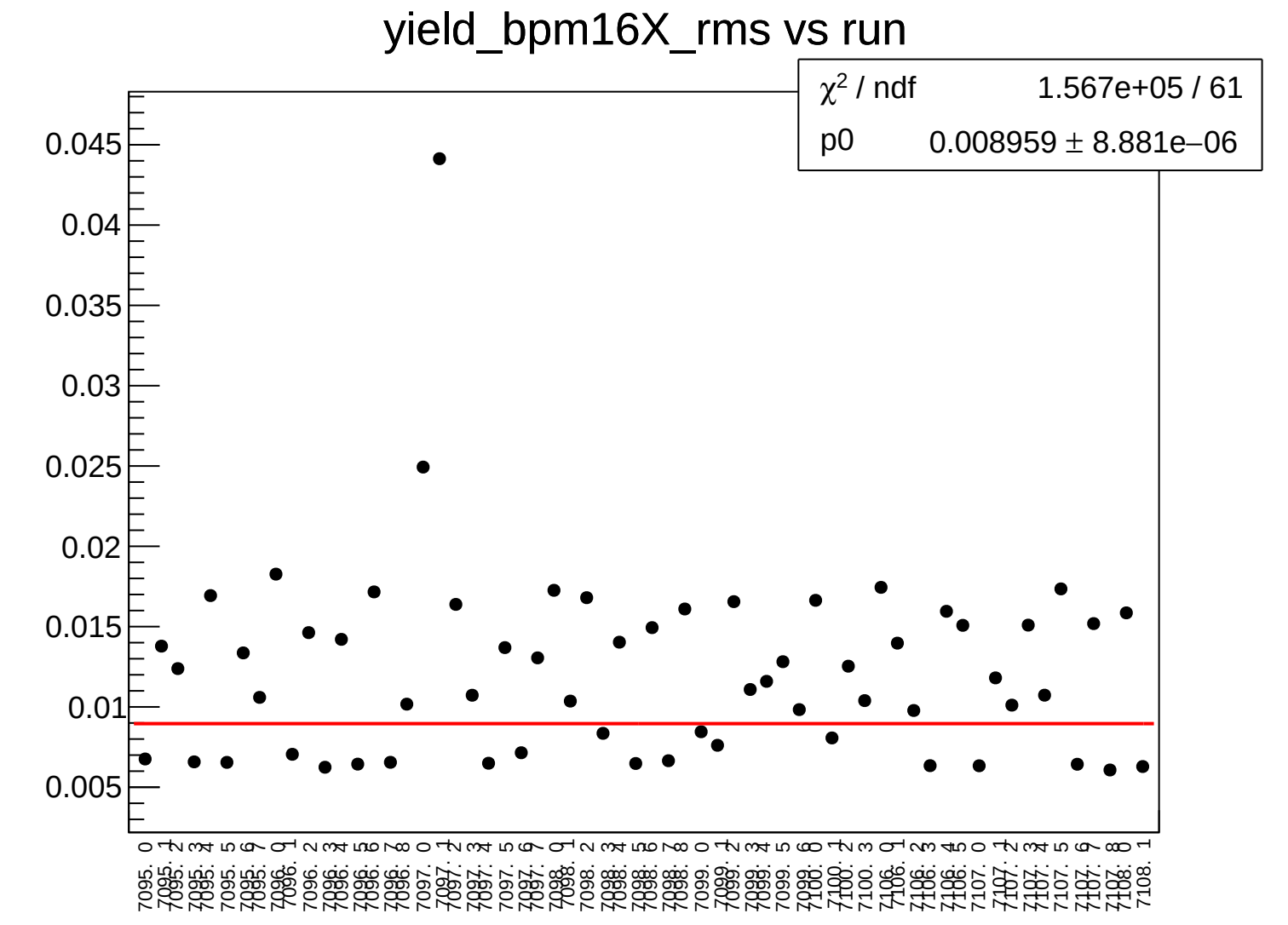

yield_bpm12Y_mean vs run
χ² / ndf 4.224e+06 / 61
p0 1.349 ± 1.199e−05
pull
Entries 62
Mean 379.2
Std Dev 342

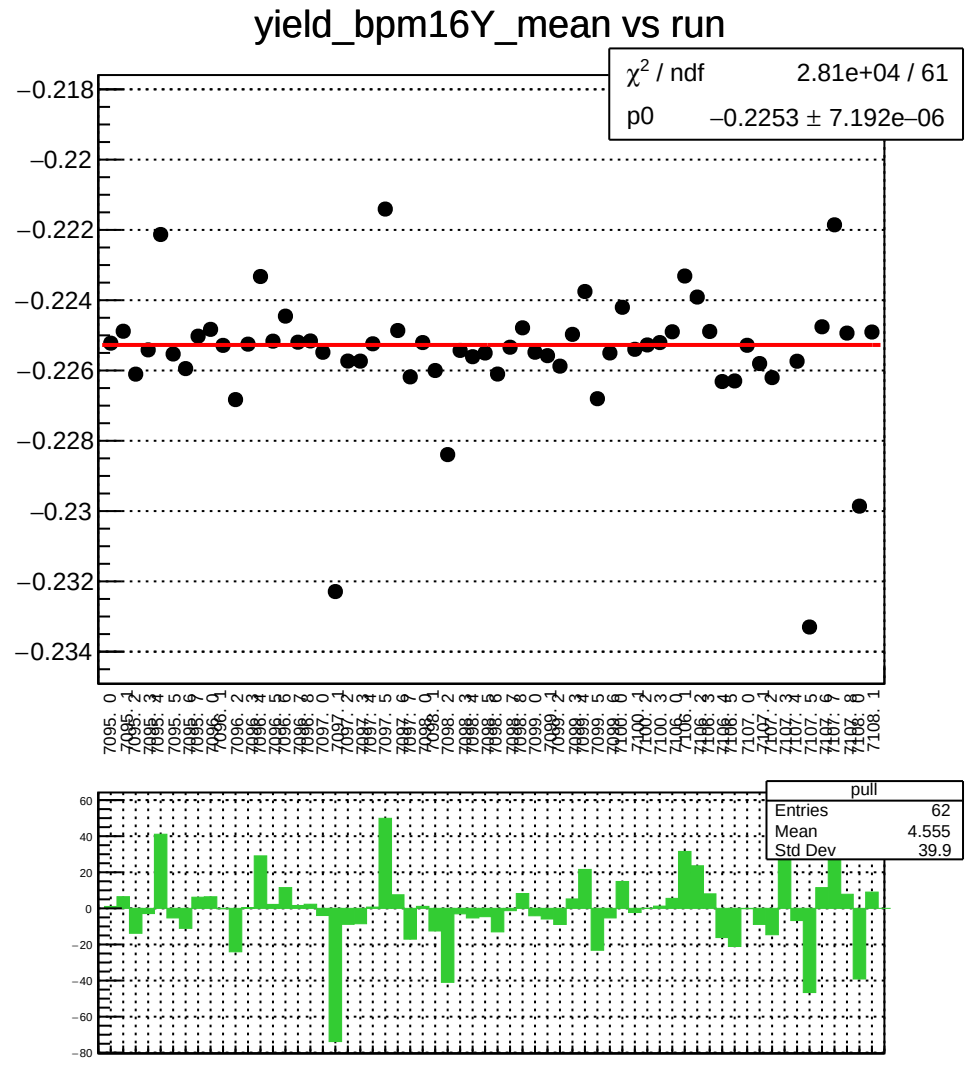

pull1D
Entries 62
Mean 0
Std Dev 0

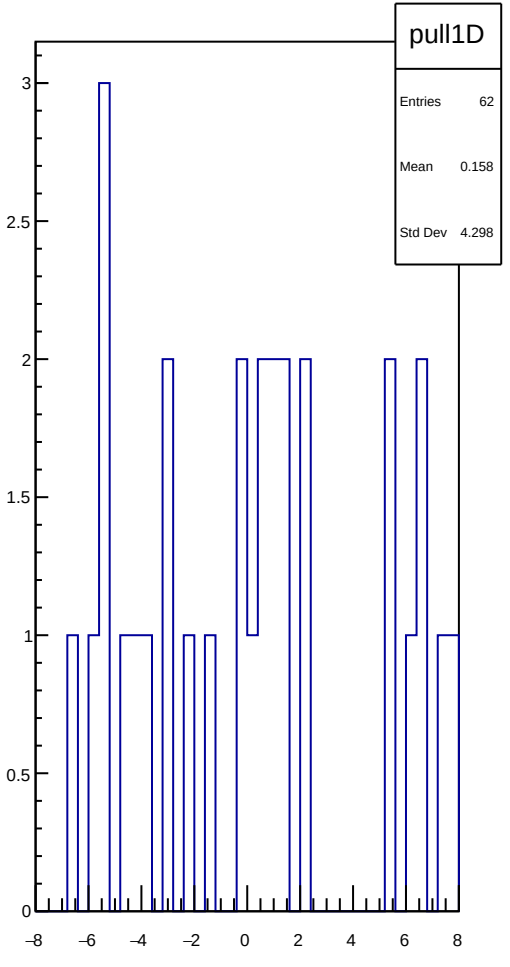

yield_bpm12Y_rms vs run
χ² / ndf 2.654e+04 / 61
p0 0.009085 ± 8.48e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

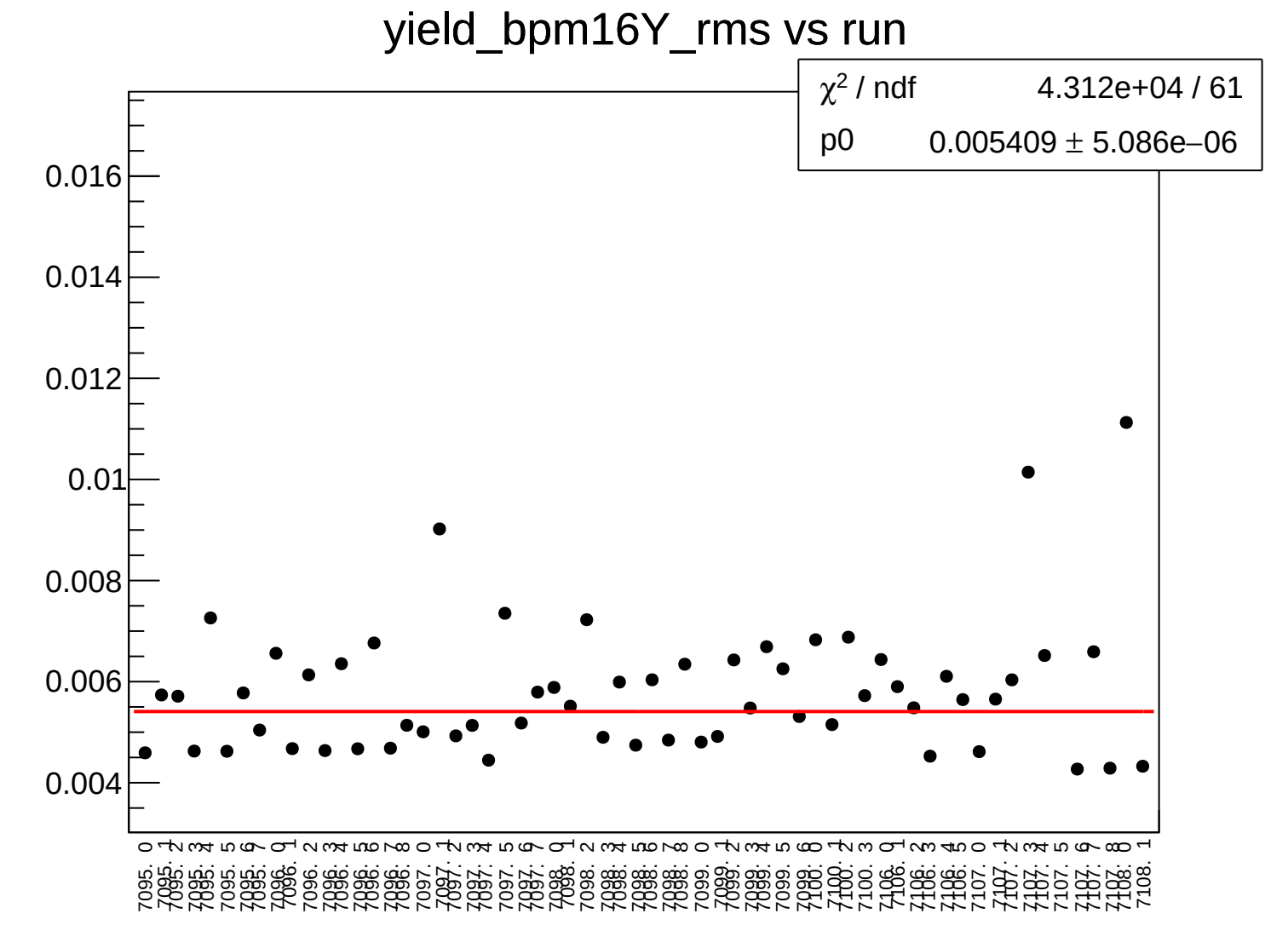

yield_bpm16X_mean vs run
χ² / ndf 2.427e+04 / 61
p0 −0.4316 ± 1.256e−05
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
pull
Entries 62
Mean 30.49
Std Dev 6.505
80
60
40
20
0
−20
−40

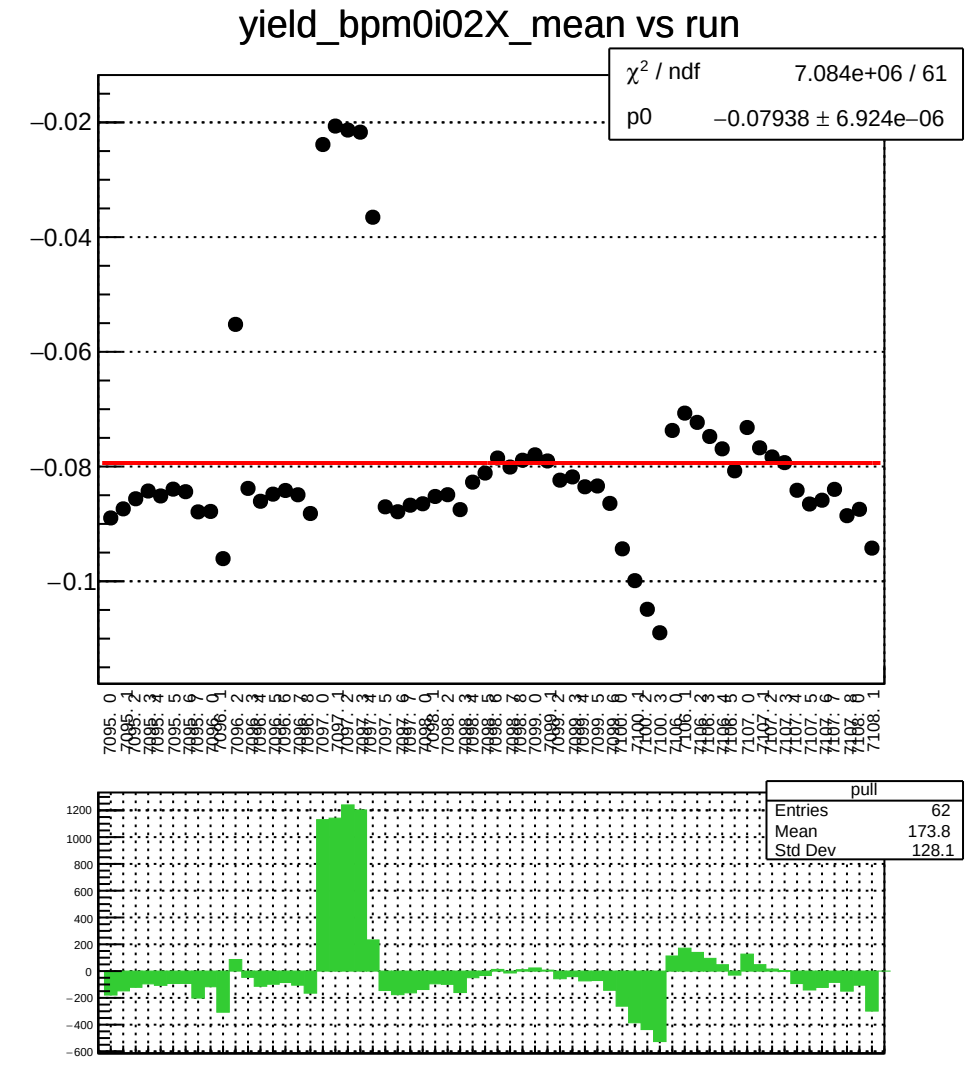

pull1D
Entries 62
Mean −0.4547
Std Dev 3.704
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

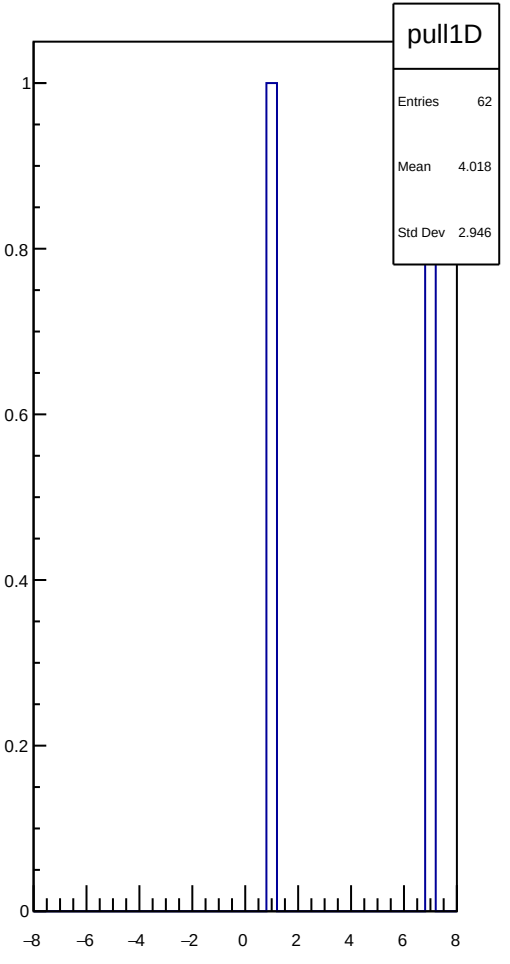

yield_bpm16X_rms vs run
χ² / ndf 1.567e+05 / 61
p0 0.008959 ± 8.881e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

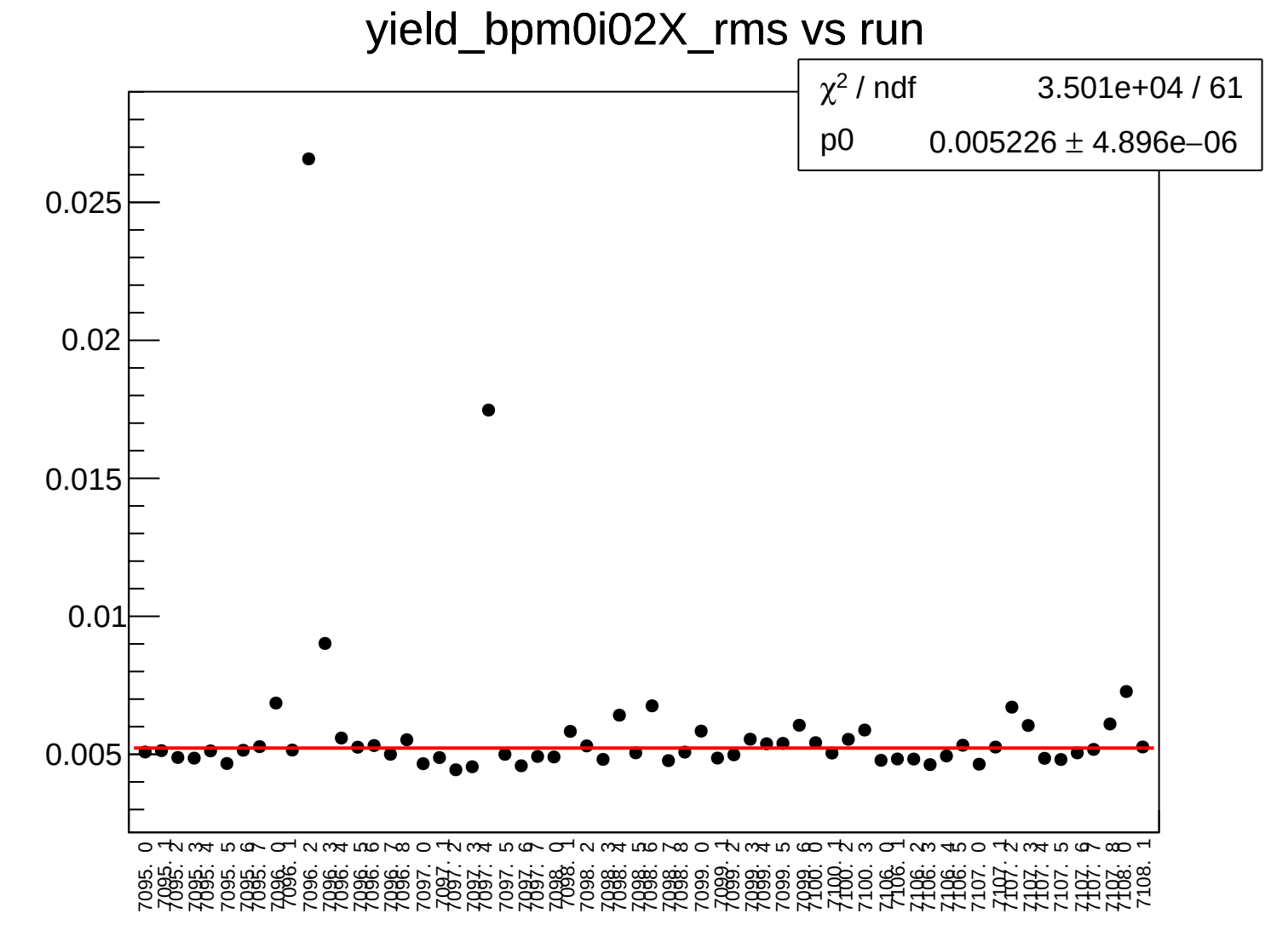

yield_bpm16Y_mean vs run
χ² / ndf 2.81e+04 / 61
p0 −0.2253 ± 7.192e−06
−0.218
−0.22
−0.222
−0.224
−0.226
−0.228
−0.23
−0.232
−0.234
pull
Entries 62
Mean 4.555
Std Dev 39.9
60
40
20
0
−20
−40
−60
−80

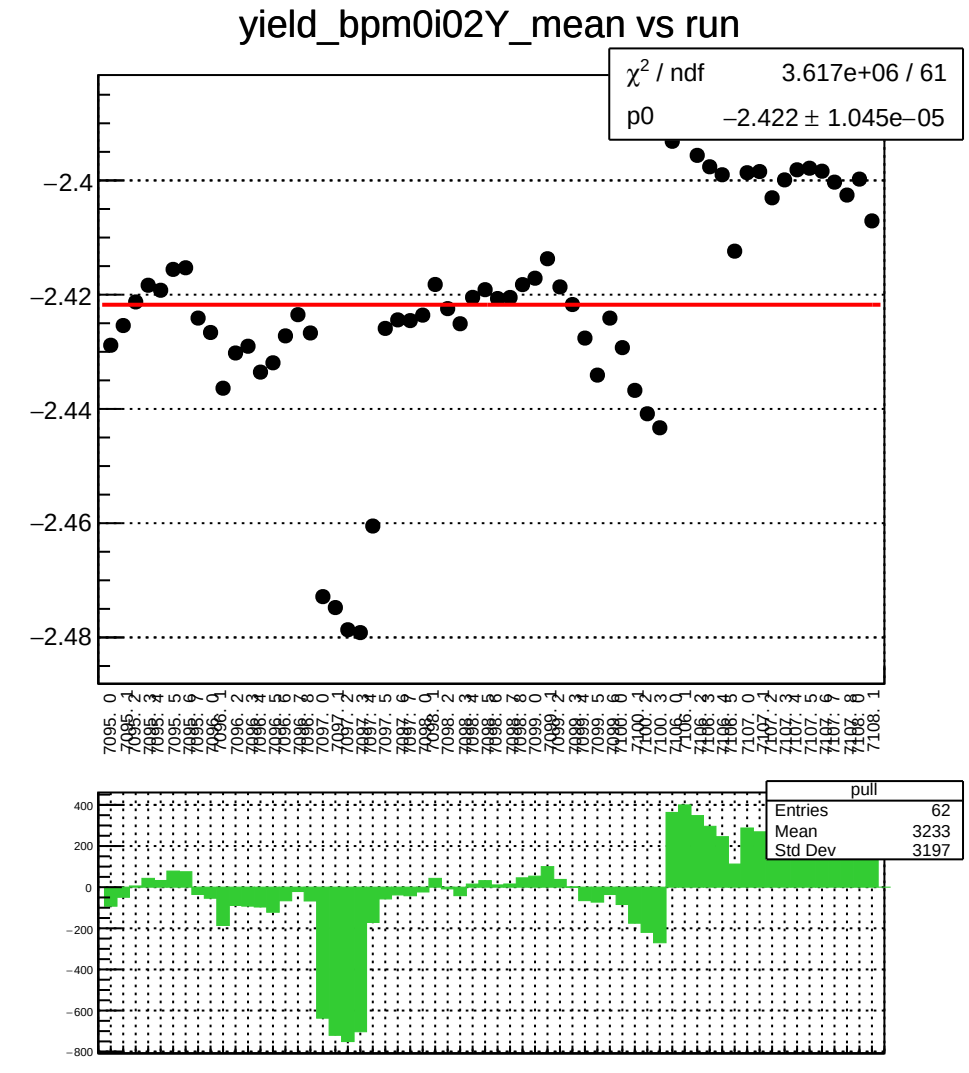

pull1D
Entries 62
Mean 0.158
Std Dev 4.298
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

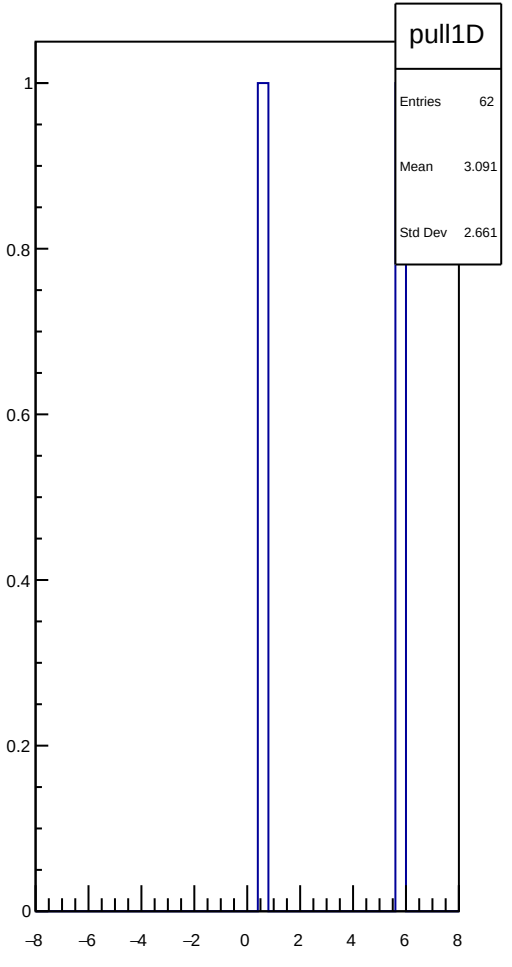

yield_bpm16Y_rms vs run
χ² / ndf 4.312e+04 / 61
p0 0.005409 ± 5.086e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

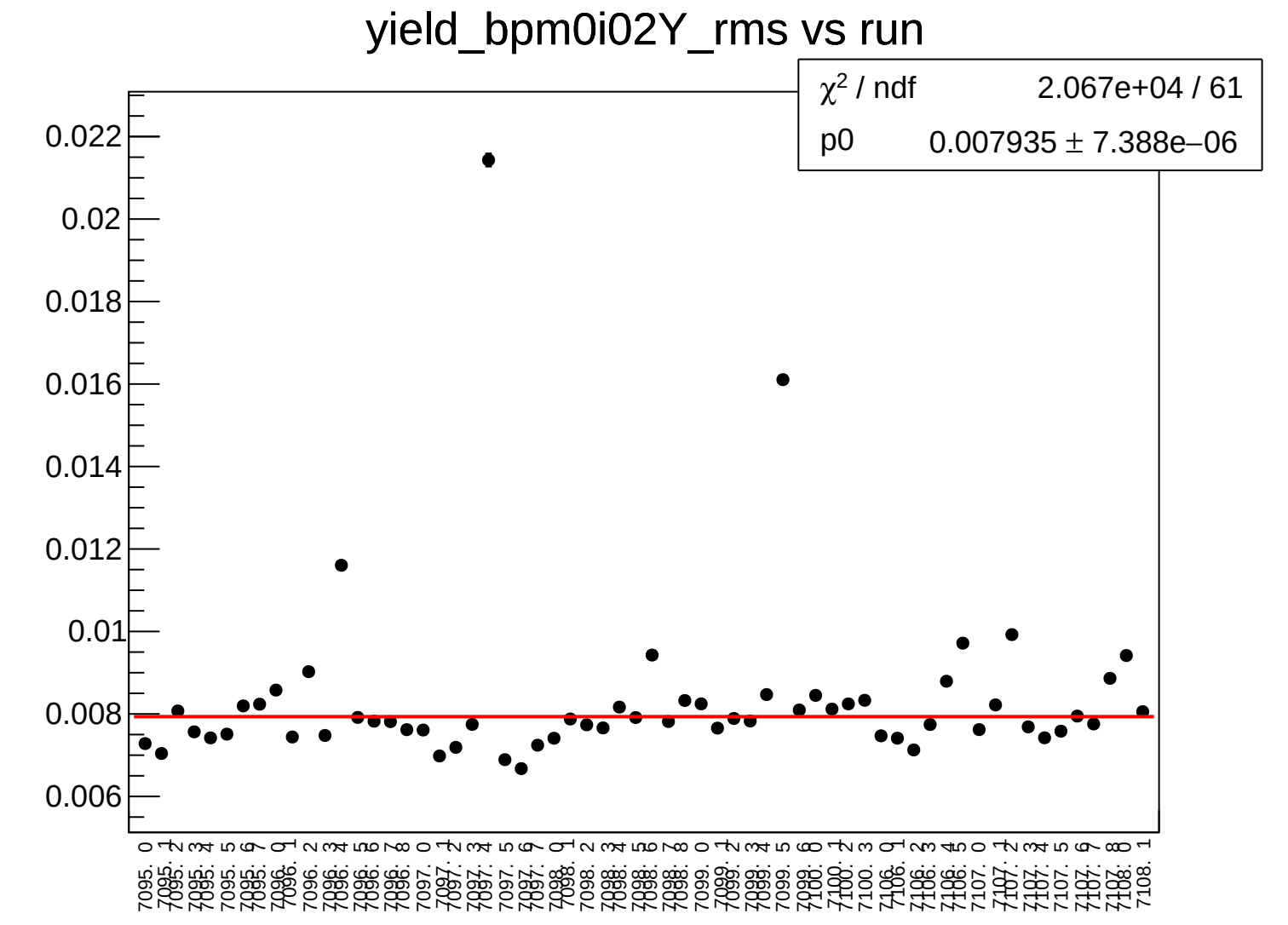

yield_bpm0i02X_mean vs run
χ² / ndf 7.084e+06 / 61
p0 −0.07938 ± 6.924e−06
−0.02
−0.04
−0.06
−0.08
−0.1
pull
Entries 62
Mean 173.8
Std Dev 128.1
1200
1000
800
600
400
200
0
−200
−400
−600

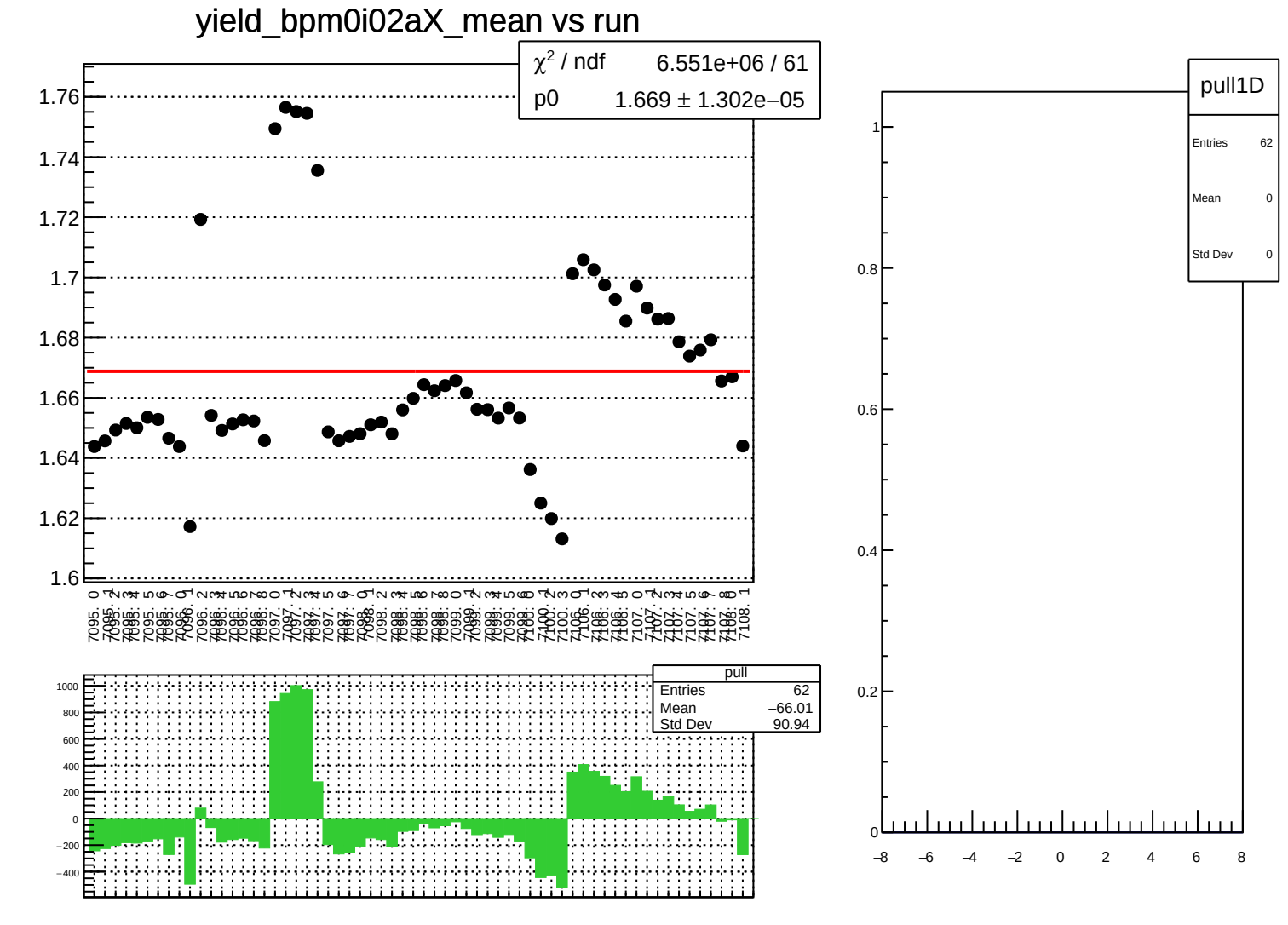

pull1D
Entries 62
Mean 4.018
Std Dev 2.946
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

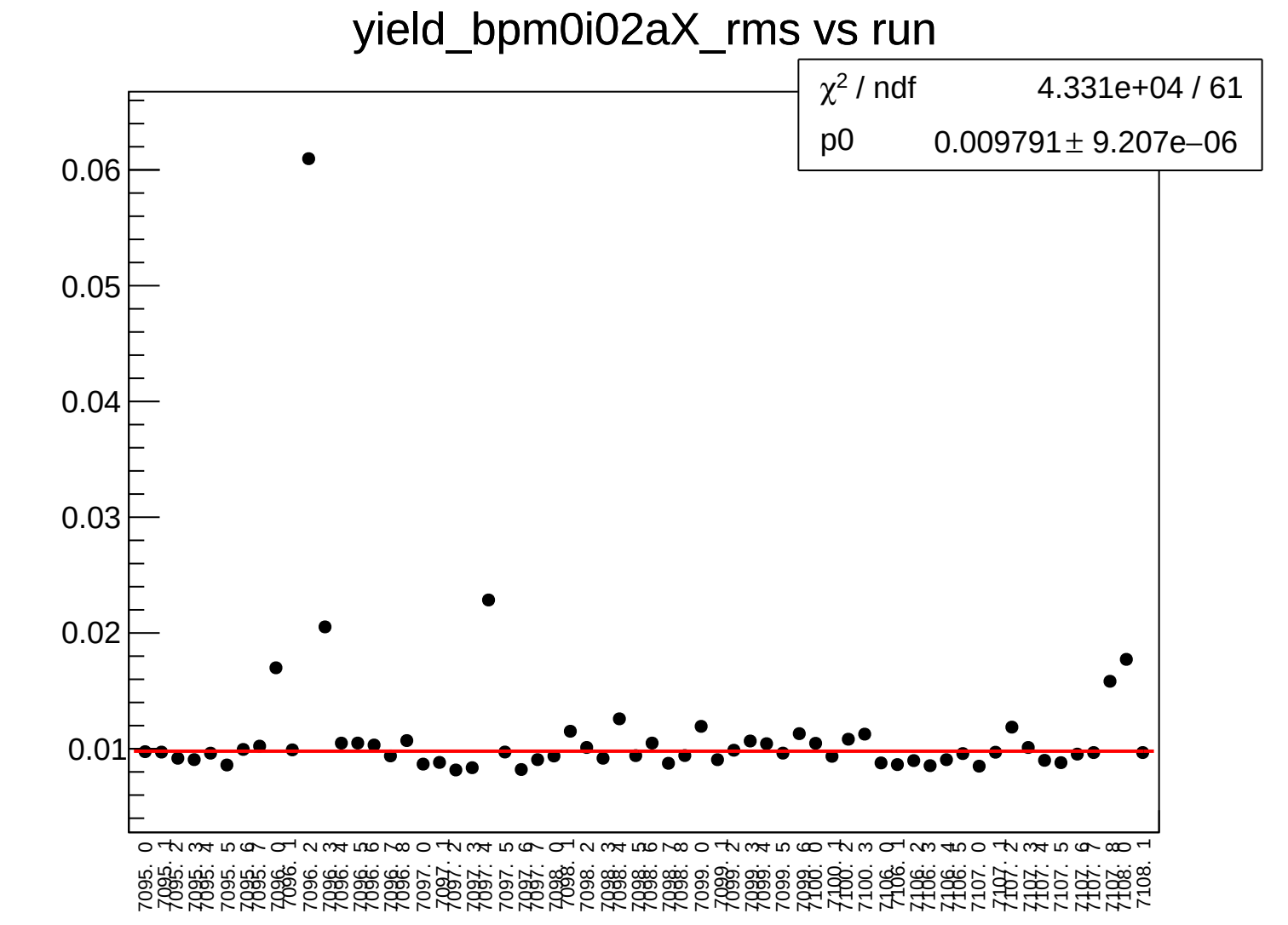

yield_bpm0i02X_rms vs run
χ² / ndf 3.501e+04 / 61
p0 0.005226 ± 4.896e−06
0.025
0.02
0.015
0.01
0.005

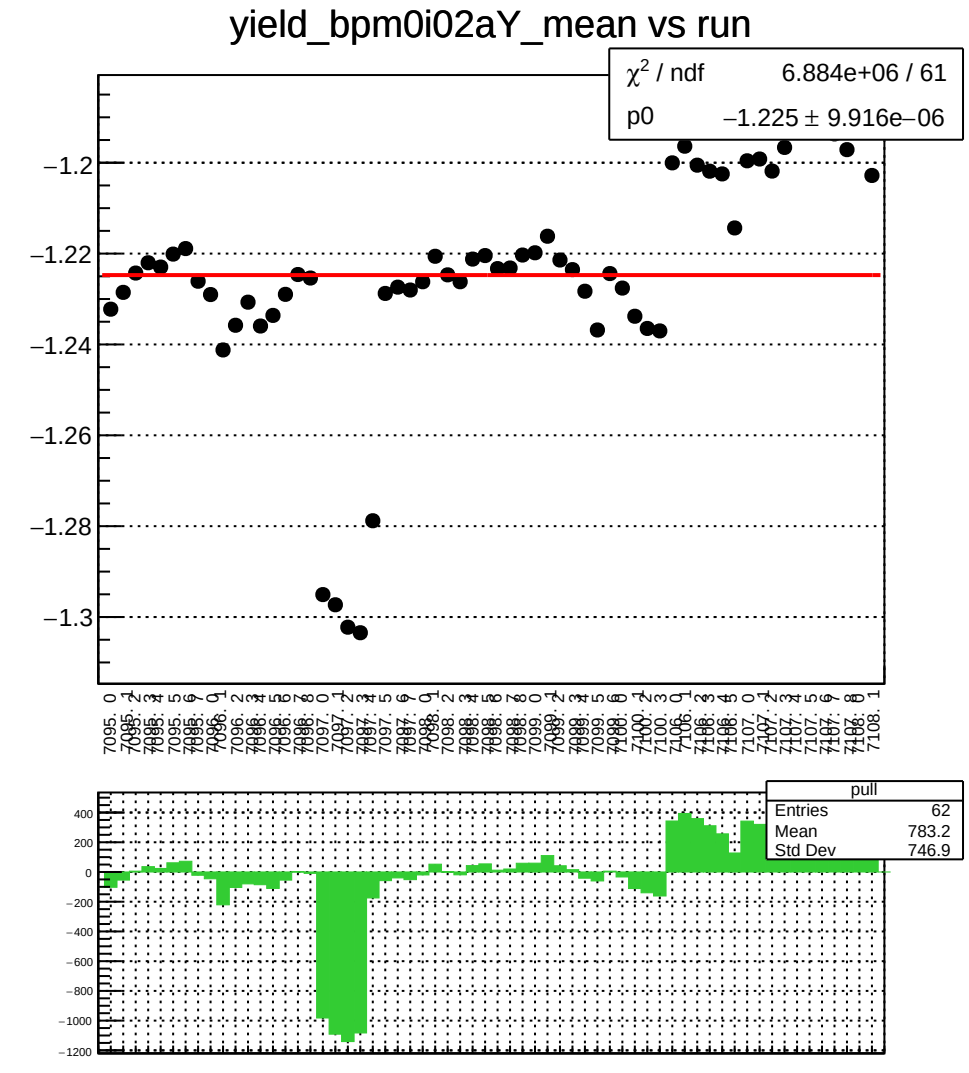

yield_bpm0i02Y_mean vs run
χ² / ndf 3.617e+06 / 61
p0 −2.422 ± 1.045e−05
−2.4
−2.42
−2.44
−2.46
−2.48
pull
Entries 62
Mean 3233
Std Dev 3197
400
200
0
−200
−400
−600
−800

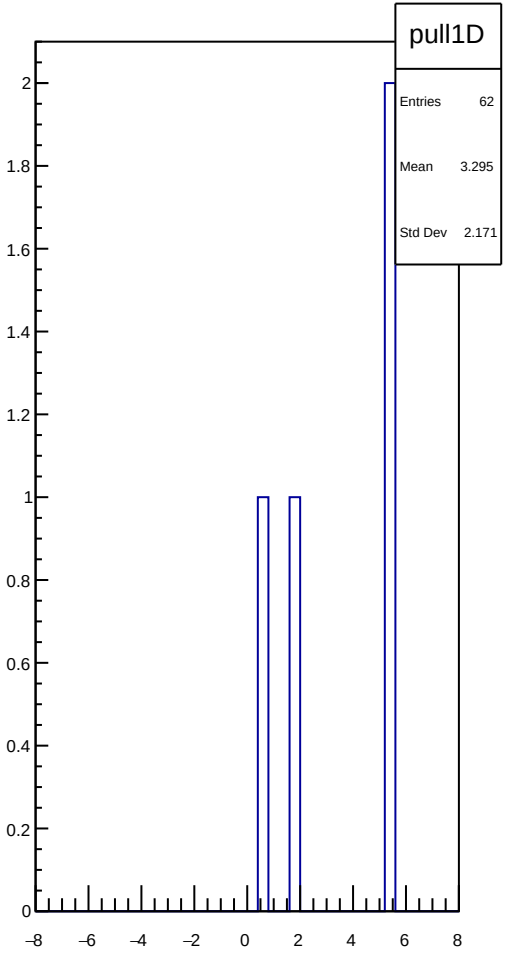

pull1D
Entries 62
Mean 3.091
Std Dev 2.661
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

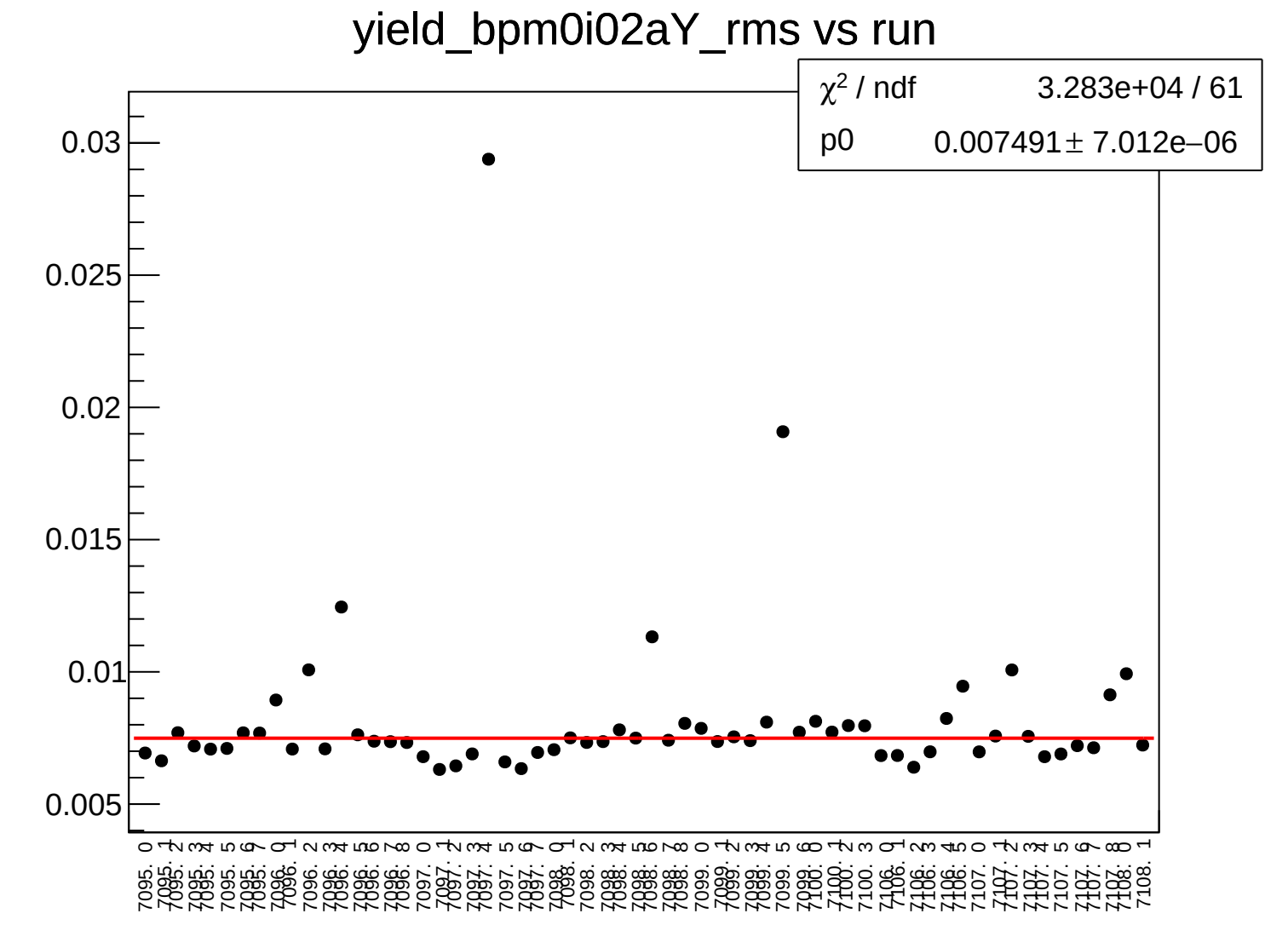

yield_bpm0i02Y_rms vs run
χ² / ndf 2.067e+04 / 61
p0 0.007935 ± 7.388e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

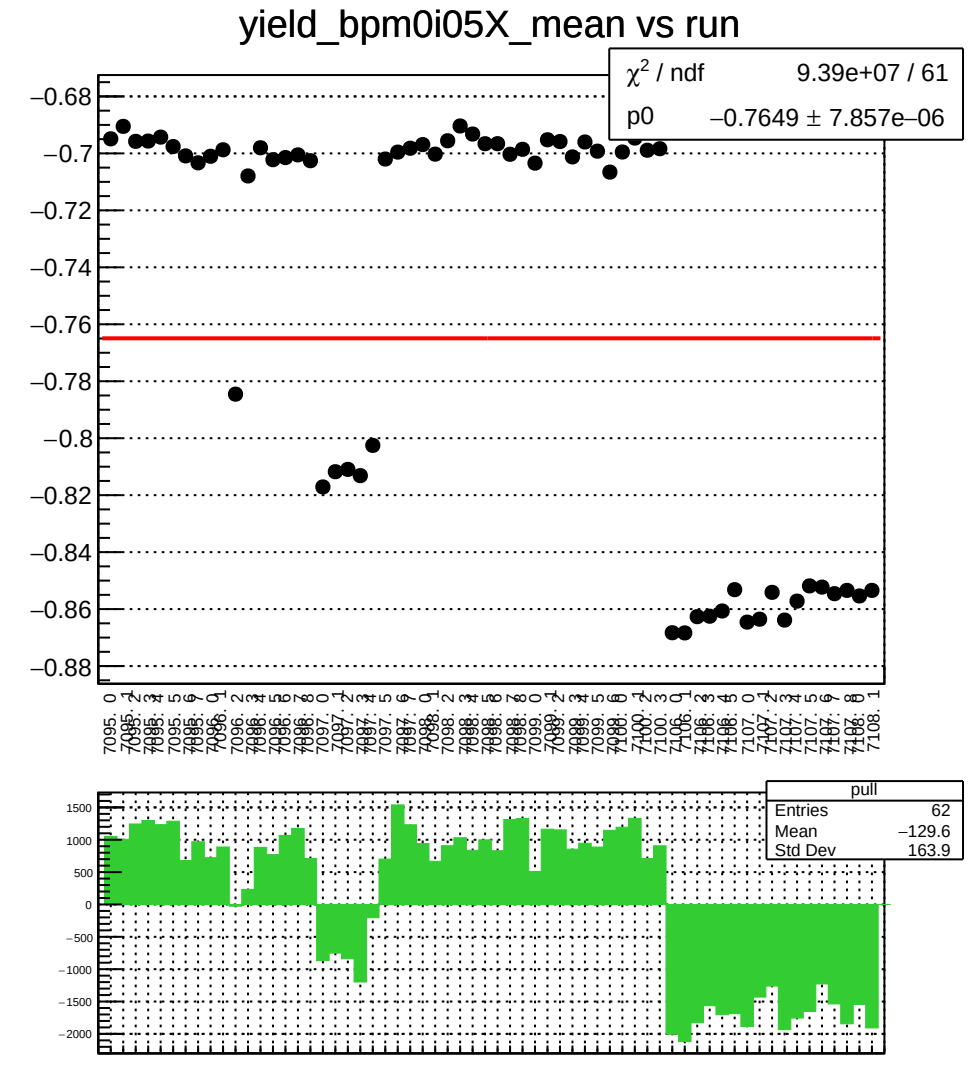

yield_bpm0i02aX_mean vs run
χ² / ndf 6.551e+06 / 61
p0 1.669 ± 1.302e−05
pull
Entries 62
Mean −66.01
Std Dev 90.94
pull1D
Entries 62
Mean 0
Std Dev 0

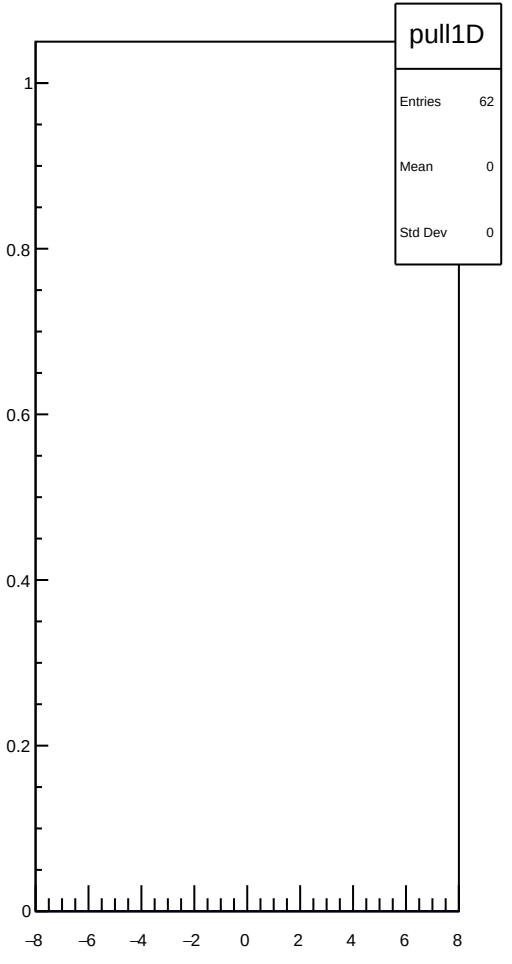

yield_bpm0i02aX_rms vs run
χ² / ndf 4.331e+04 / 61
p0 0.009791 ± 9.207e−06
0.06
0.05
0.04
0.03
0.02
0.01
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7106. 7
7106. 8
7106. 9
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

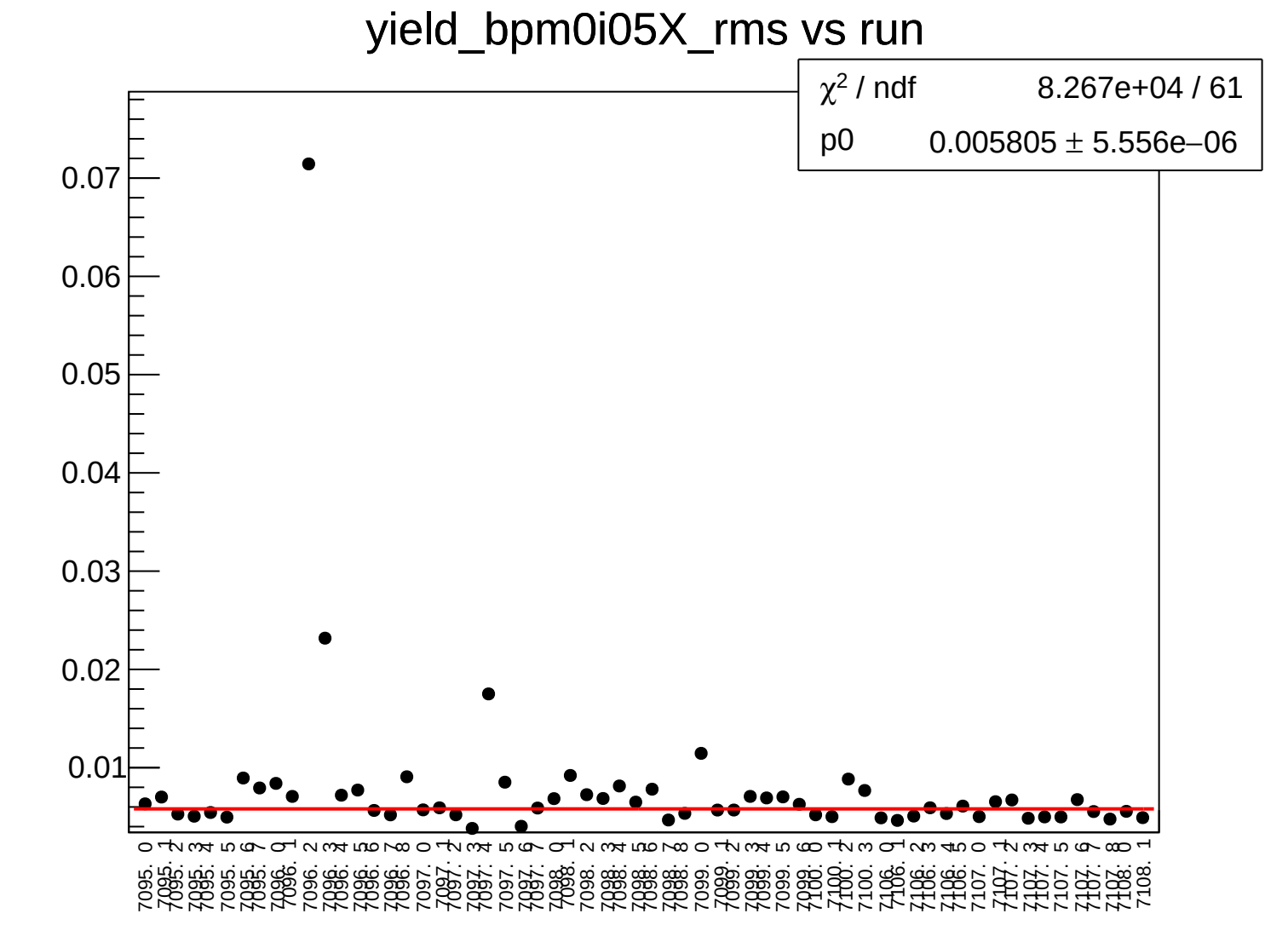

yield_bpm0i02aY_mean vs run
χ² / ndf 6.884e+06 / 61
p0 −1.225 ± 9.916e−06
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
pull
Entries 62
Mean 783.2
Std Dev 746.9
400
200
0
−200
−400
−600
−800
−1000
−1200

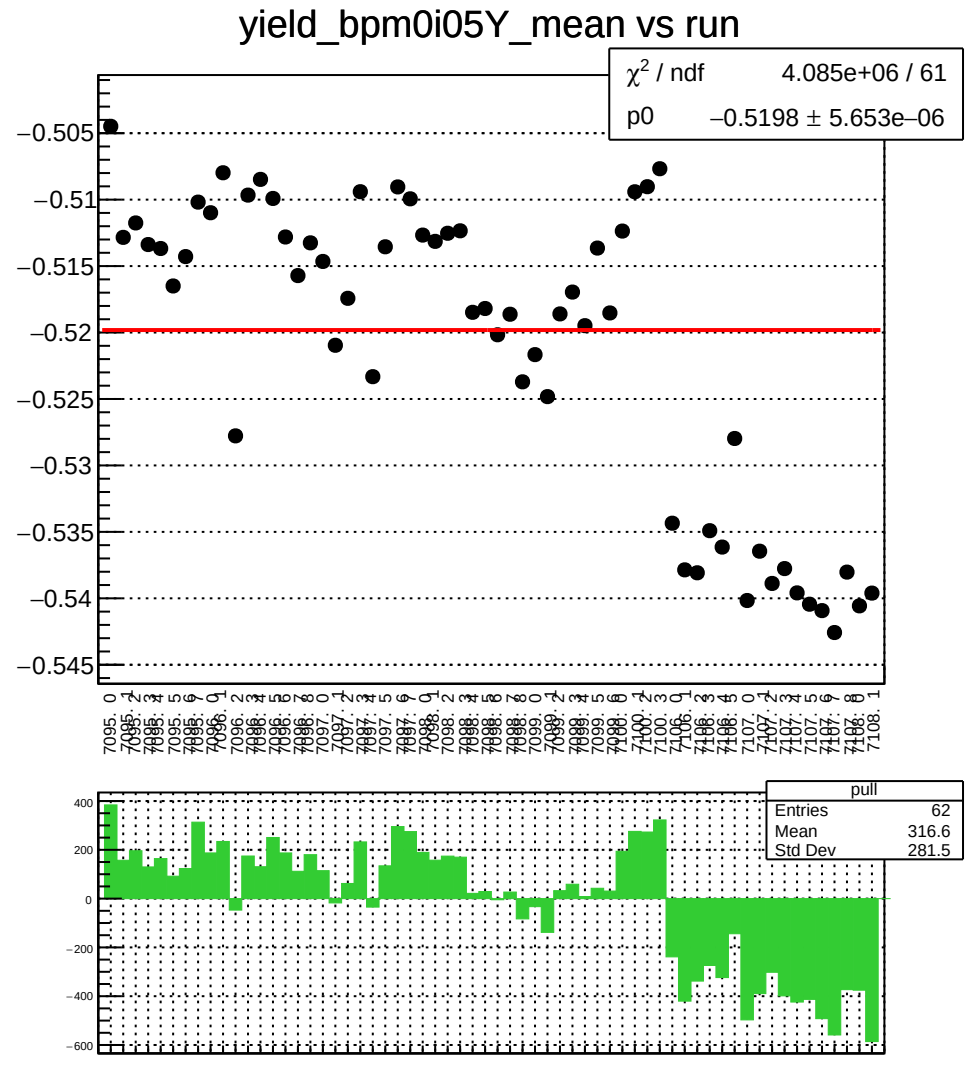

pull1D
Entries 62
Mean 3.295
Std Dev 2.171
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

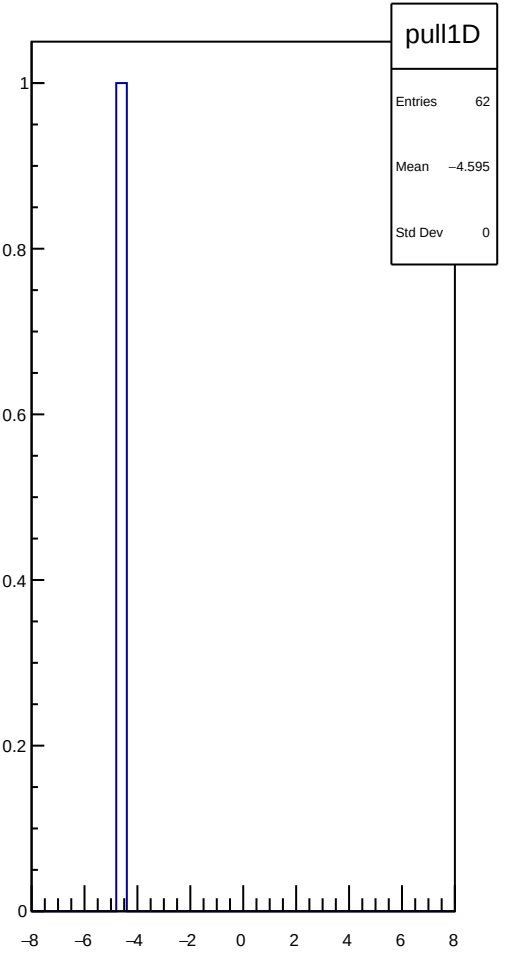

yield_bpm0i02aY_rms vs run
χ² / ndf 3.283e+04 / 61
p0 0.007491 ± 7.012e−06
0.03
0.025
0.02
0.015
0.01
0.005

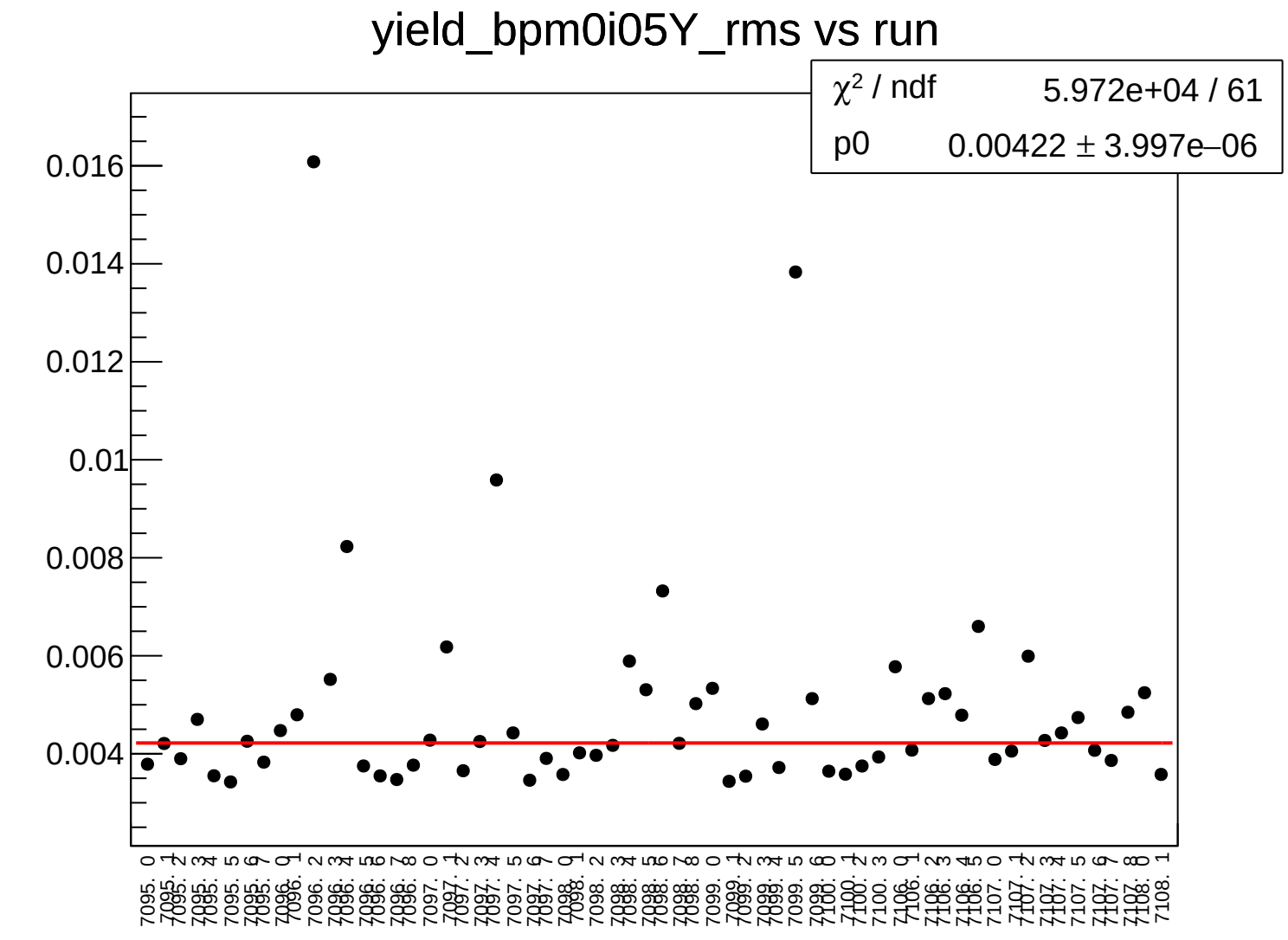

yield_bpm0i05X_mean vs run
χ² / ndf 9.39e+07 / 61
p0 −0.7649 ± 7.857e−06
−0.68
−0.7
−0.72
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 62
Mean −129.6
Std Dev 163.9
1500
1000
500
0
−500
−1000
−1500
−2000

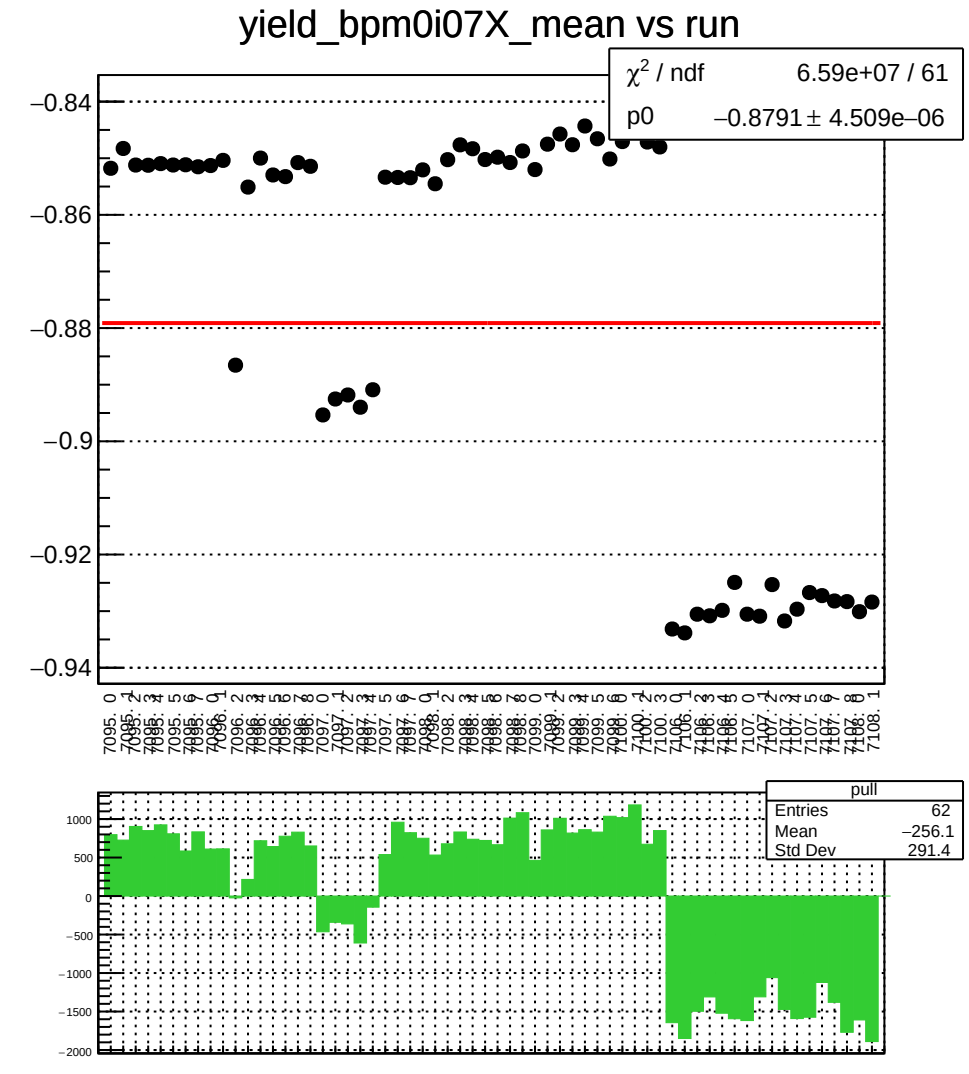

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

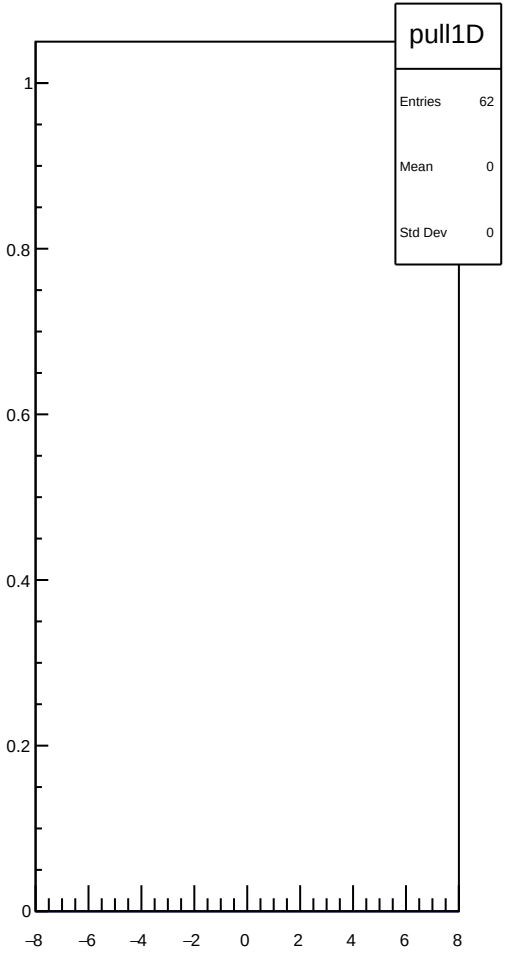

yield_bpm0i05X_rms vs run
χ² / ndf 8.267e+04 / 61
p0 0.005805 ± 5.556e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

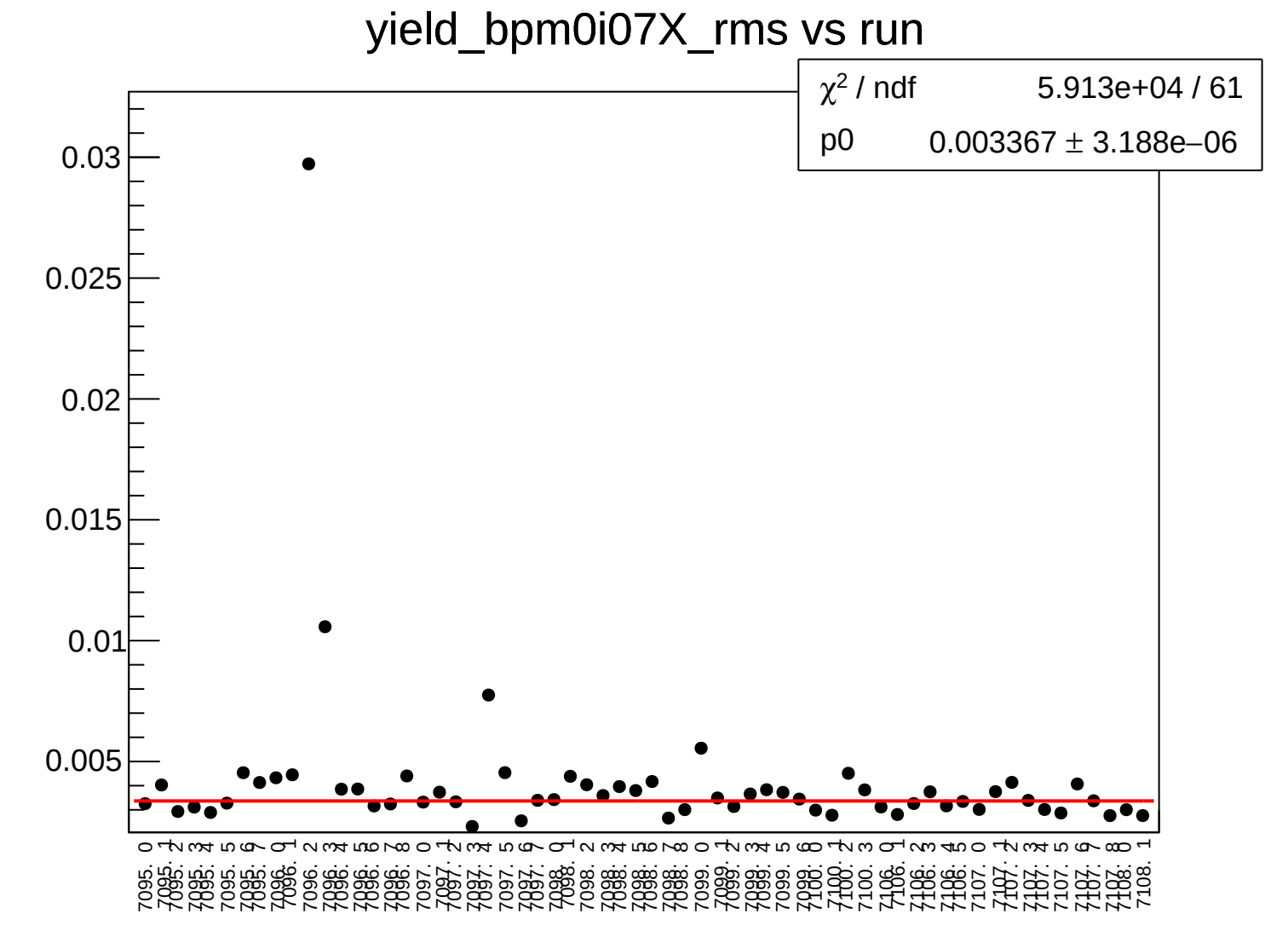

yield_bpm0i05Y_mean vs run
χ² / ndf 4.085e+06 / 61
p0 −0.5198 ± 5.653e−06
pull
Entries 62
Mean 316.6
Std Dev 281.5

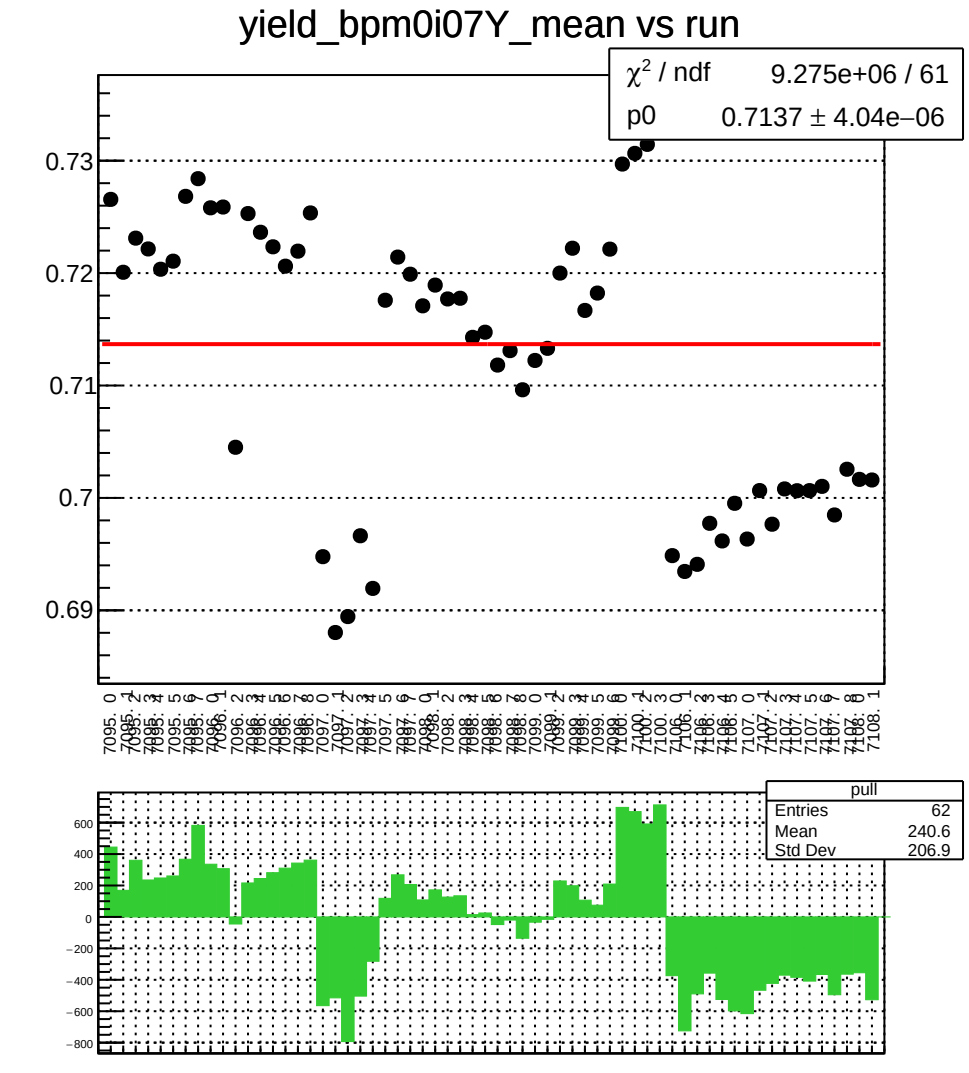

pull1D
Entries 62
Mean −4.595
Std Dev 0

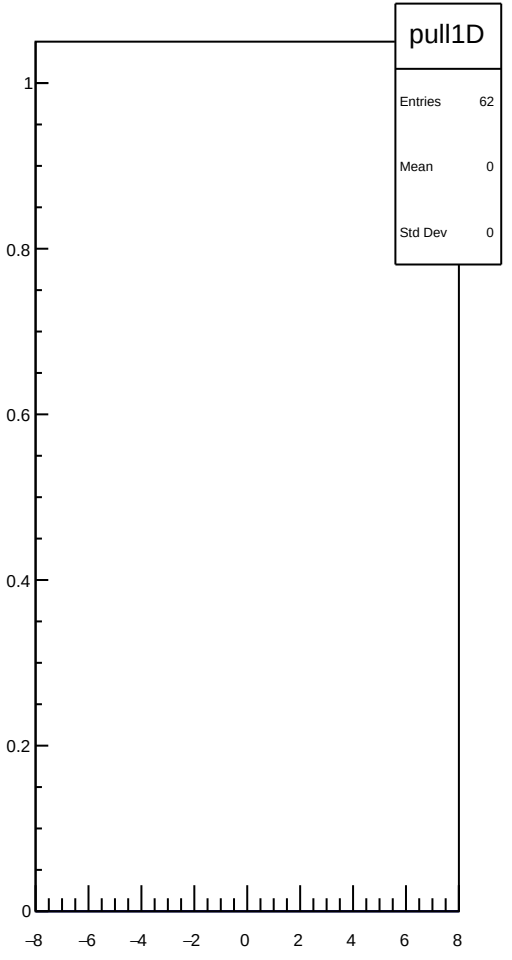

yield_bpm0i05Y_rms vs run
χ² / ndf 5.972e+04 / 61
p0 0.00422 ± 3.997e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

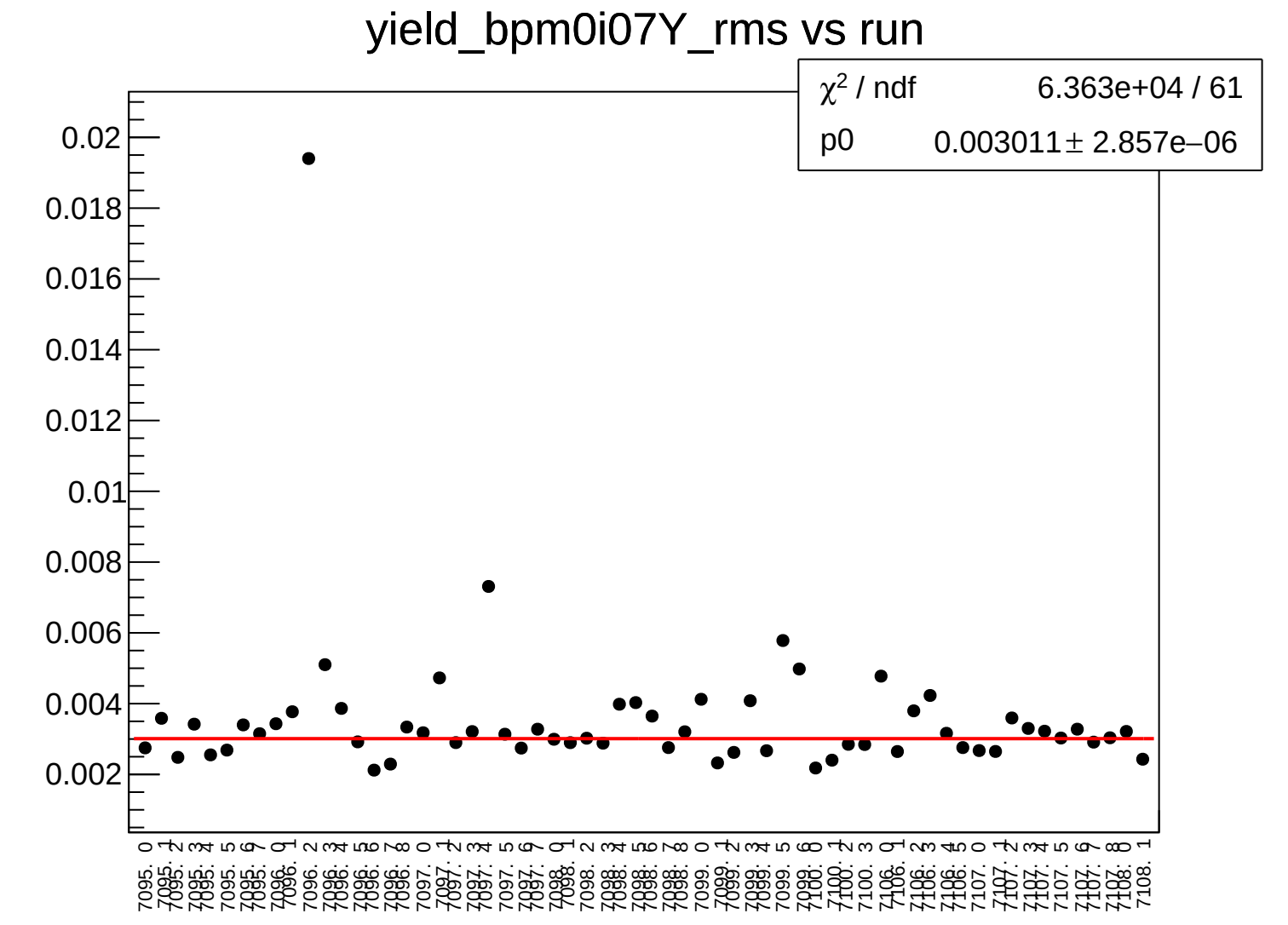

yield_bpm0i07X_mean vs run
χ^2 / ndf 6.59e+07 / 61
p0 −0.8791 ± 4.509e−06
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
pull
Entries 62
Mean −256.1
Std Dev 291.4
1000
500
0
−500
−1000
−1500
−2000

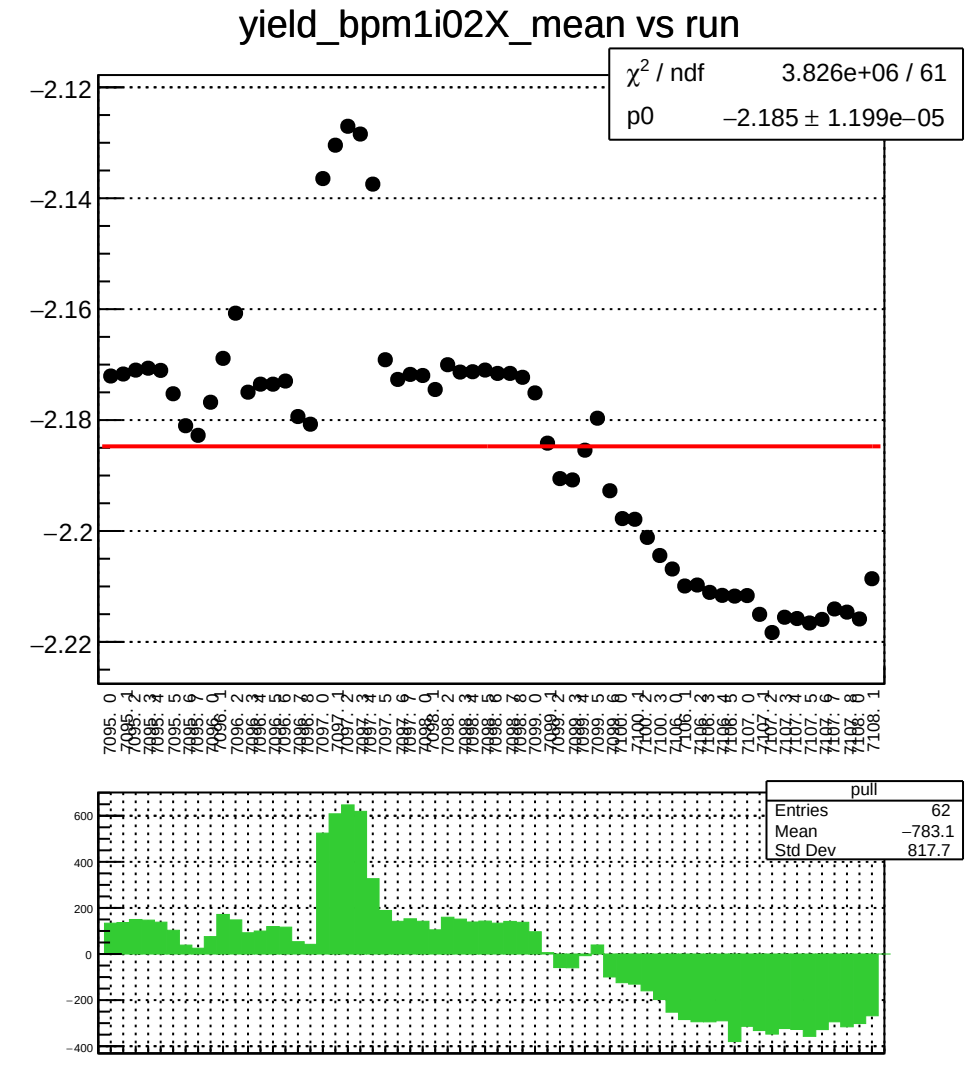

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

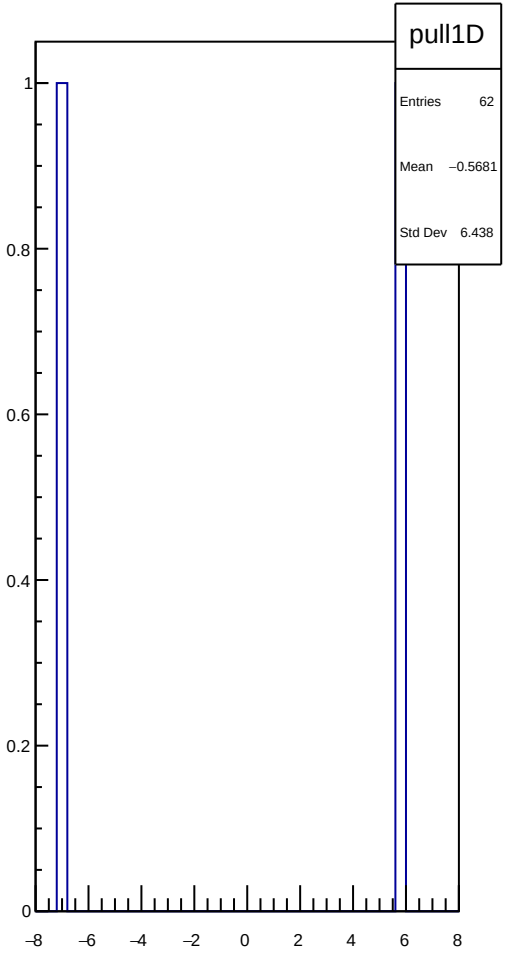

yield_bpm0i07X_rms vs run
χ² / ndf 5.913e+04 / 61
p0 0.003367 ± 3.188e−06
0.03
0.025
0.02
0.015
0.01
0.005

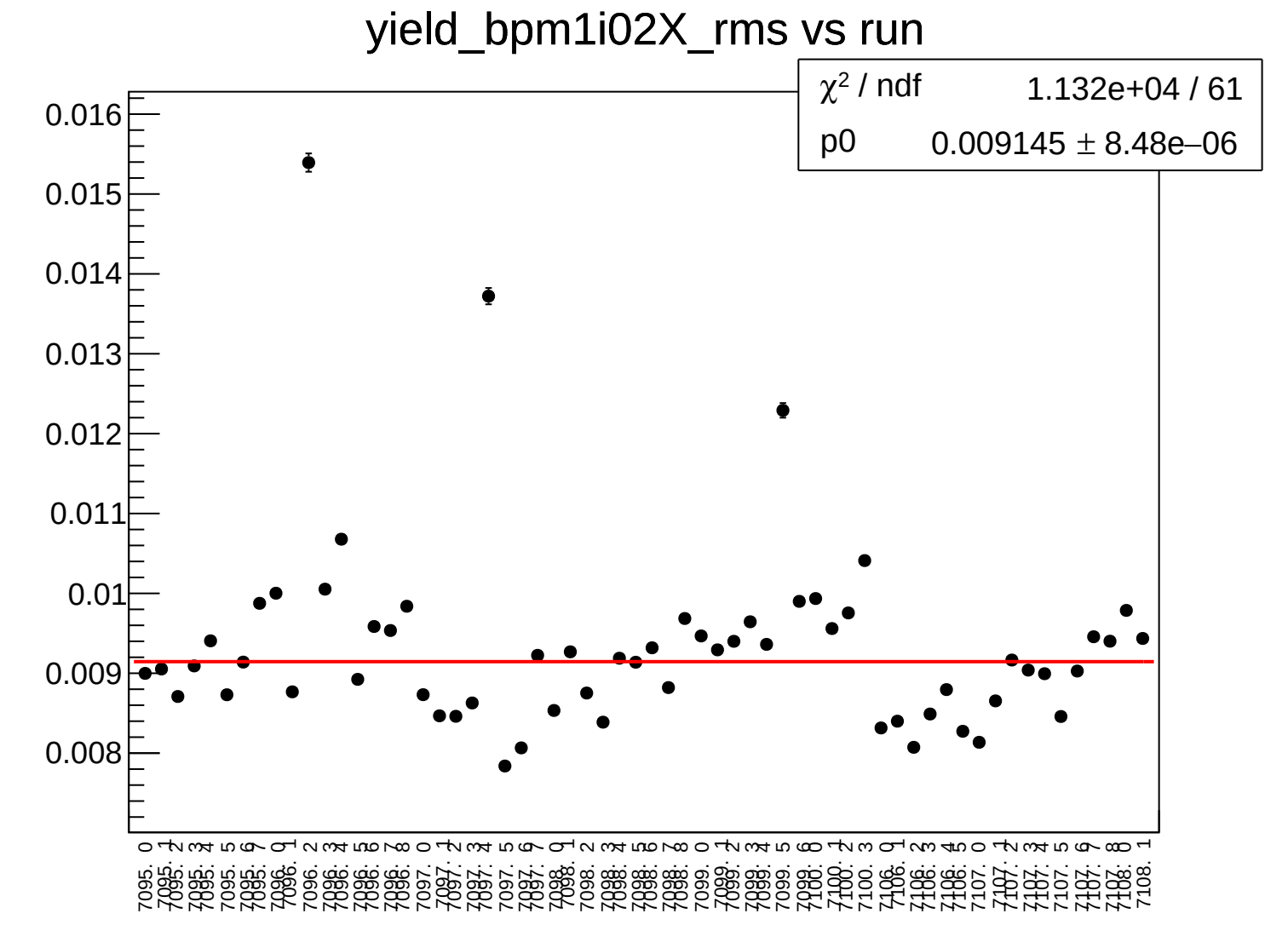

yield_bpm0i07Y_mean vs run
χ² / ndf 9.275e+06 / 61
p0 0.7137 ± 4.04e−06
0.73
0.72
0.71
0.7
0.69
pull
Entries 62
Mean 240.6
Std Dev 206.9
600
400
200
0
−200
−400
−600
−800

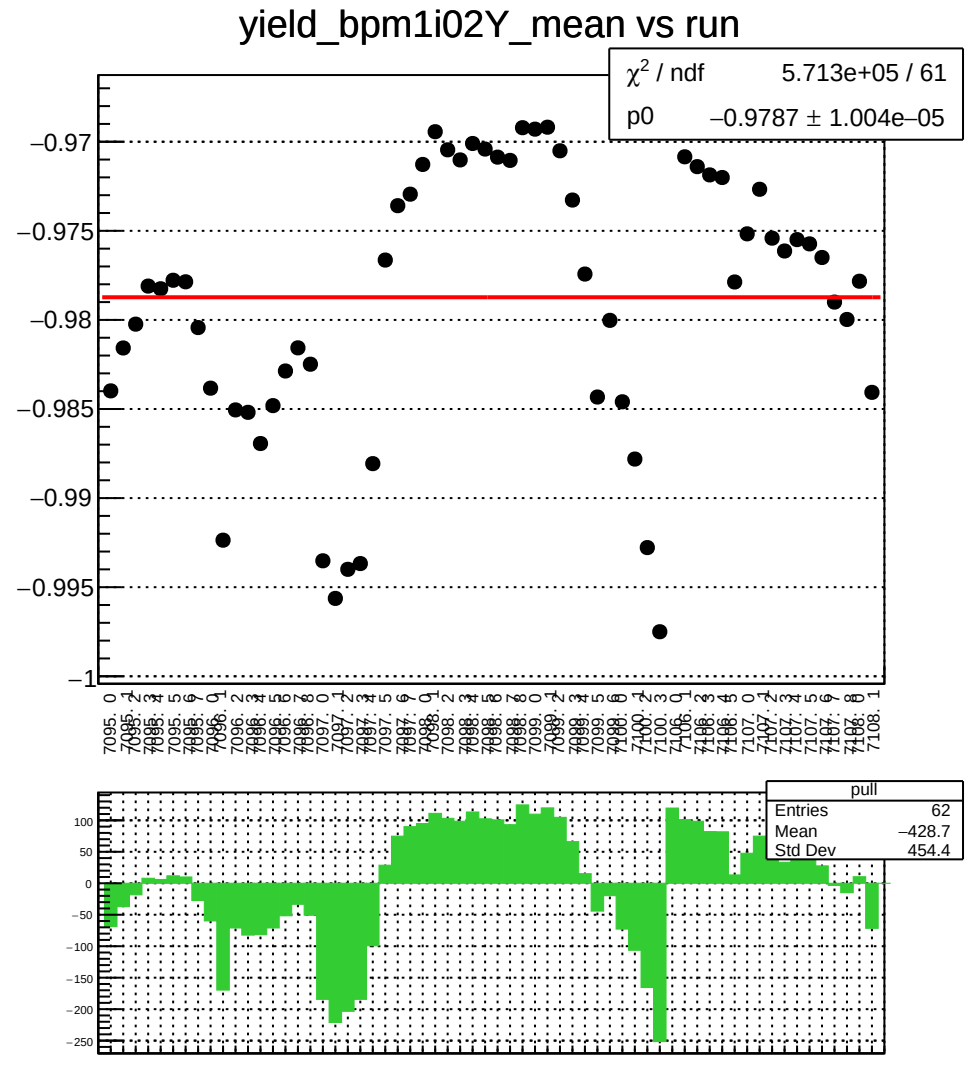

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

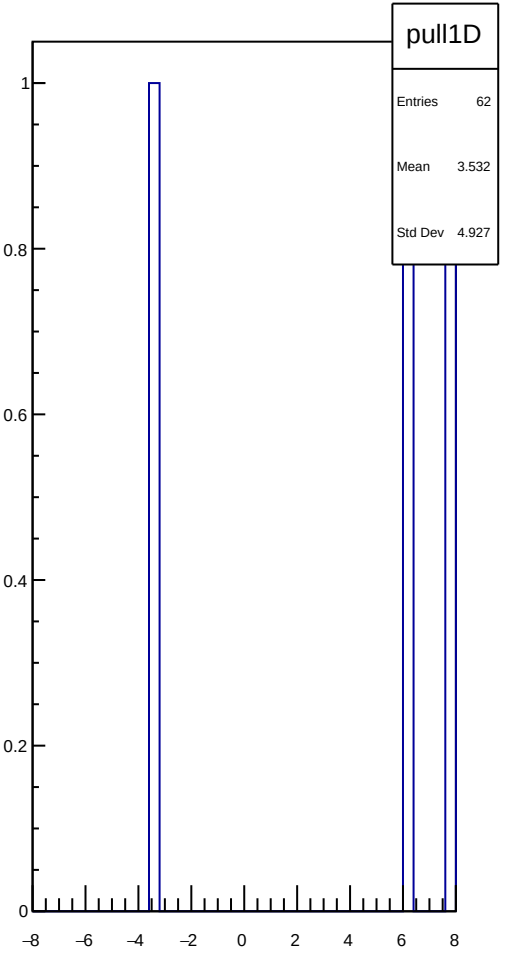

yield_bpm0i07Y_rms vs run
χ² / ndf 6.363e+04 / 61
p0 0.003011 ± 2.857e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

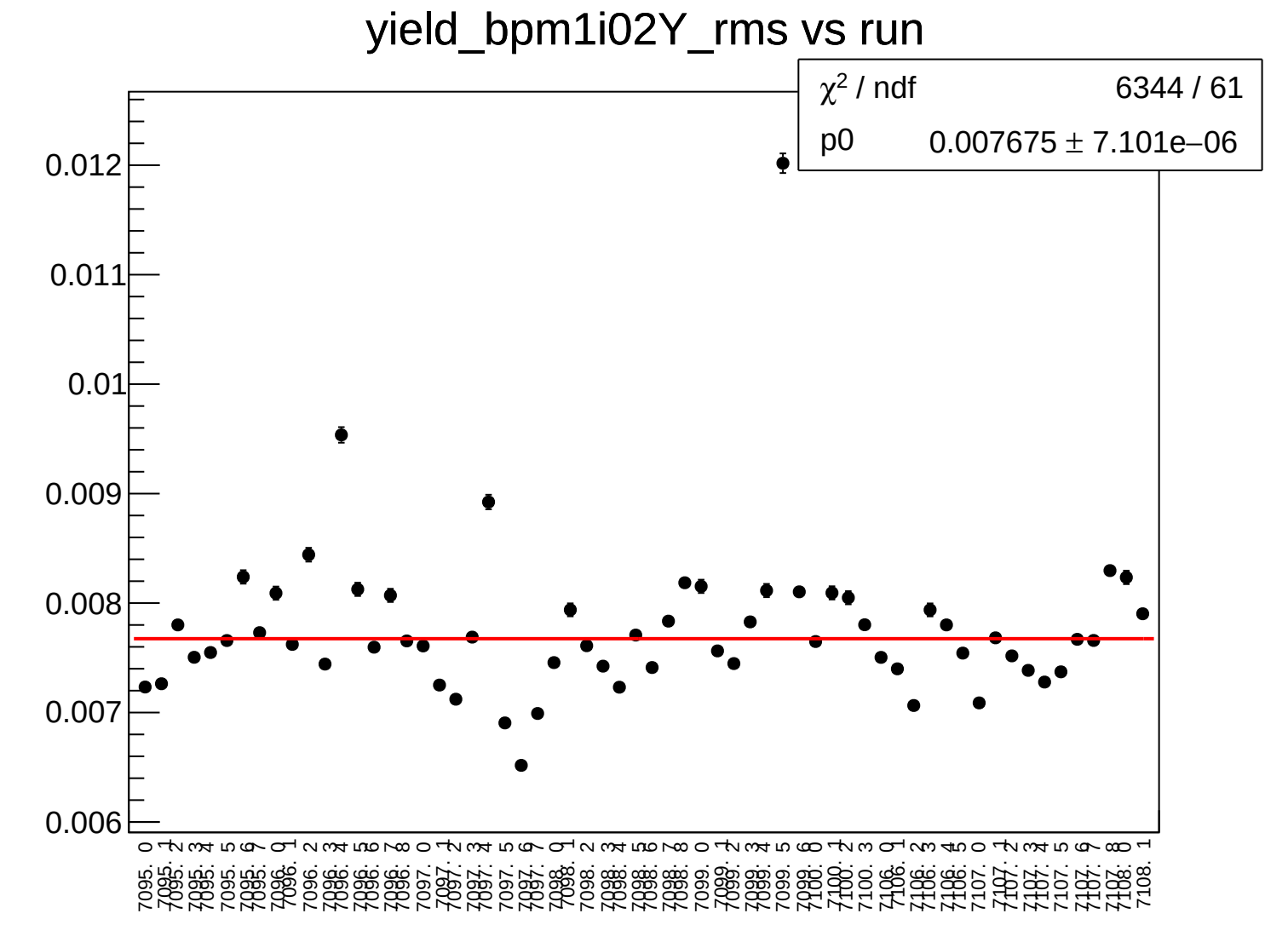

yield_bpm1i02X_mean vs run
χ² / ndf 3.826e+06 / 61
p0 −2.185 ± 1.199e−05
−2.12
−2.14
−2.16
−2.18
−2.2
−2.22
pull
Entries 62
Mean −783.1
Std Dev 817.7
600
400
200
0
−200
−400

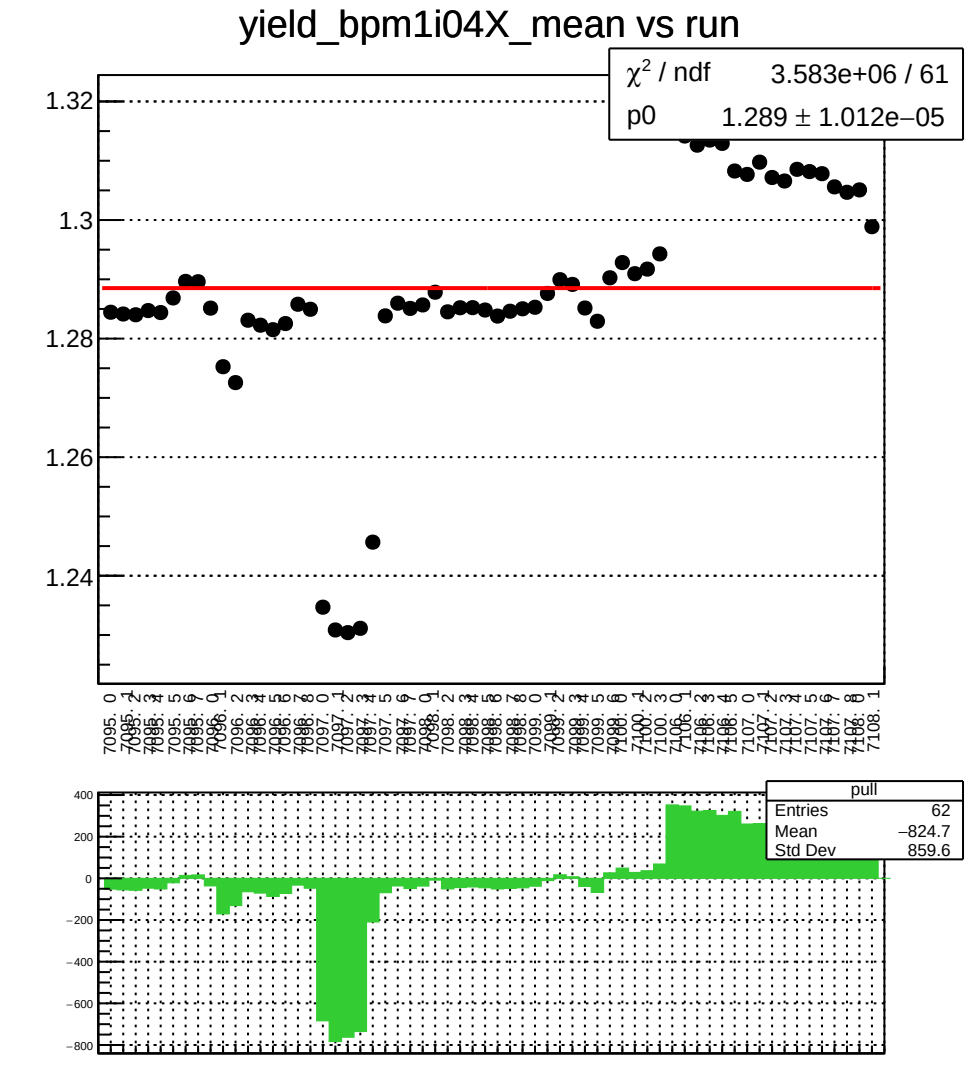

pull1D
Entries 62
Mean −0.5681
Std Dev 6.438
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

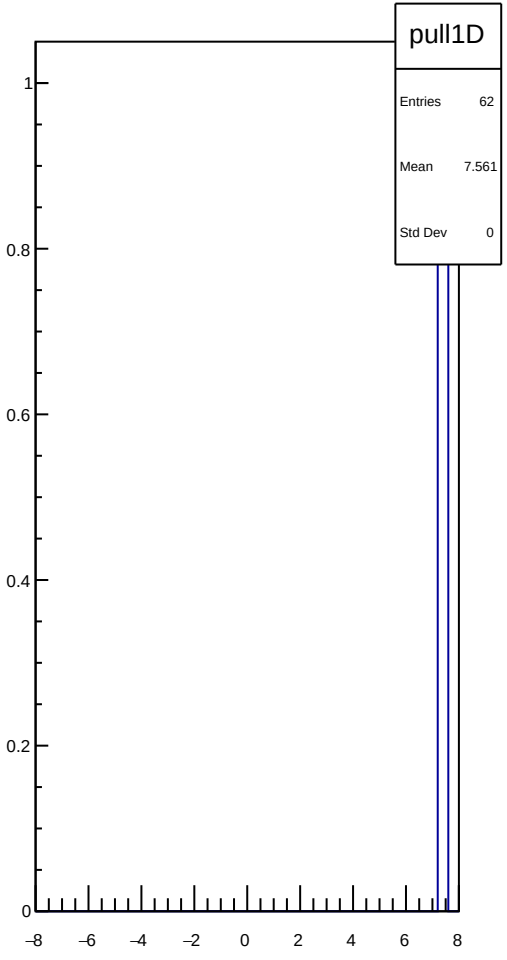

yield_bpm1i02X_rms vs run
χ² / ndf 1.132e+04 / 61
p0 0.009145 ± 8.48e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

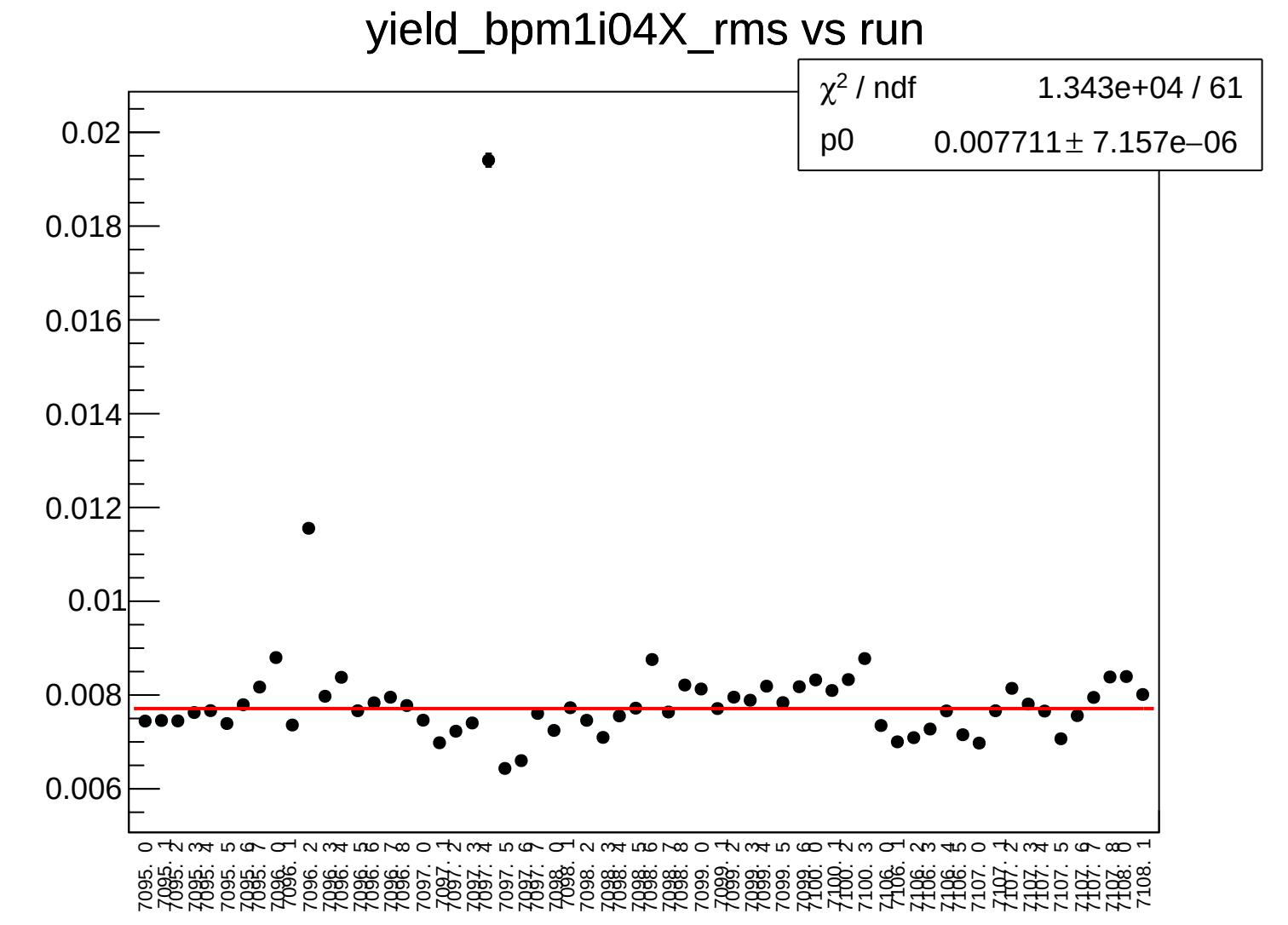

yield_bpm1i02Y_mean vs run
χ² / ndf 5.713e+05 / 61
p0 −0.9787 ± 1.004e−05
−0.97
−0.975
−0.98
−0.985
−0.99
−0.995
−1
pull
Entries 62
Mean −428.7
Std Dev 454.4
100
50
0
−50
−100
−150
−200
−250

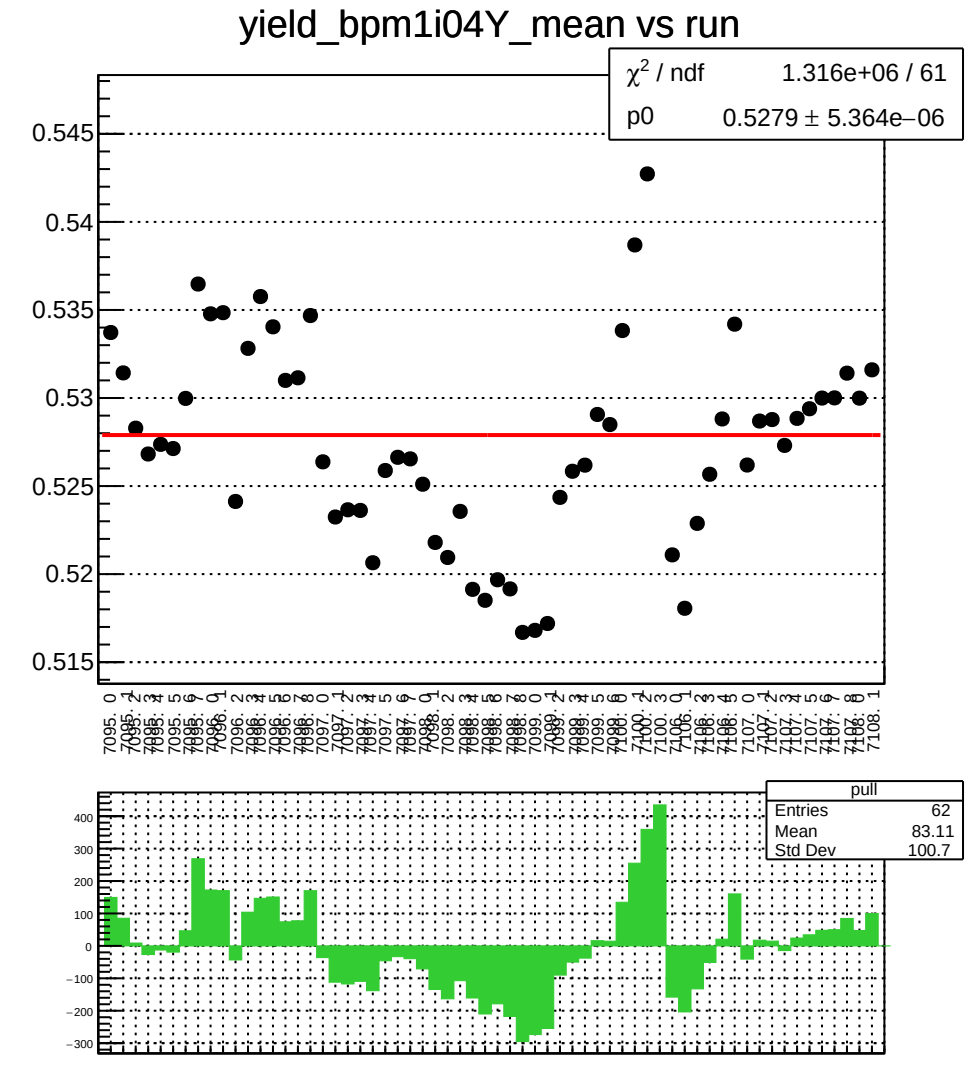

pull1D
Entries 62
Mean 3.532
Std Dev 4.927
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

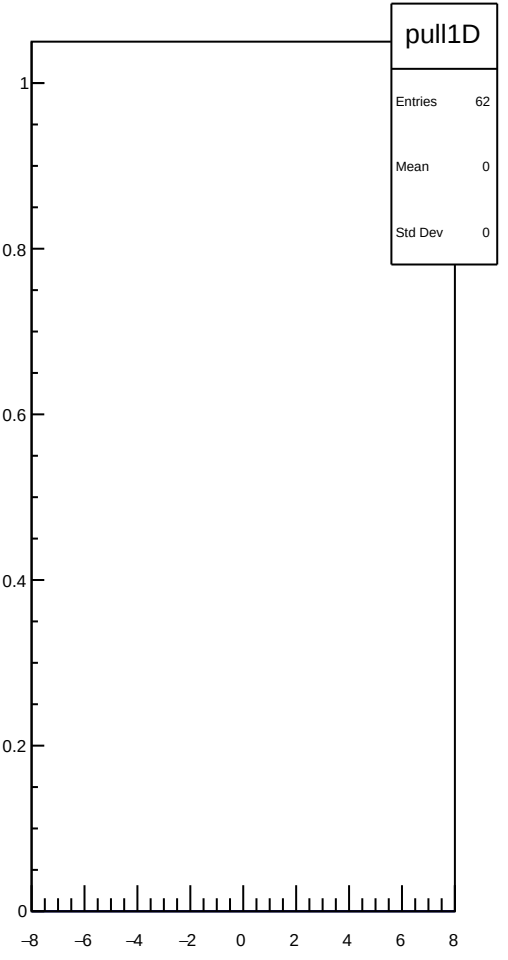

yield_bpm1i02Y_rms vs run
χ² / ndf 6344 / 61
p0 0.007675 ± 7.101e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

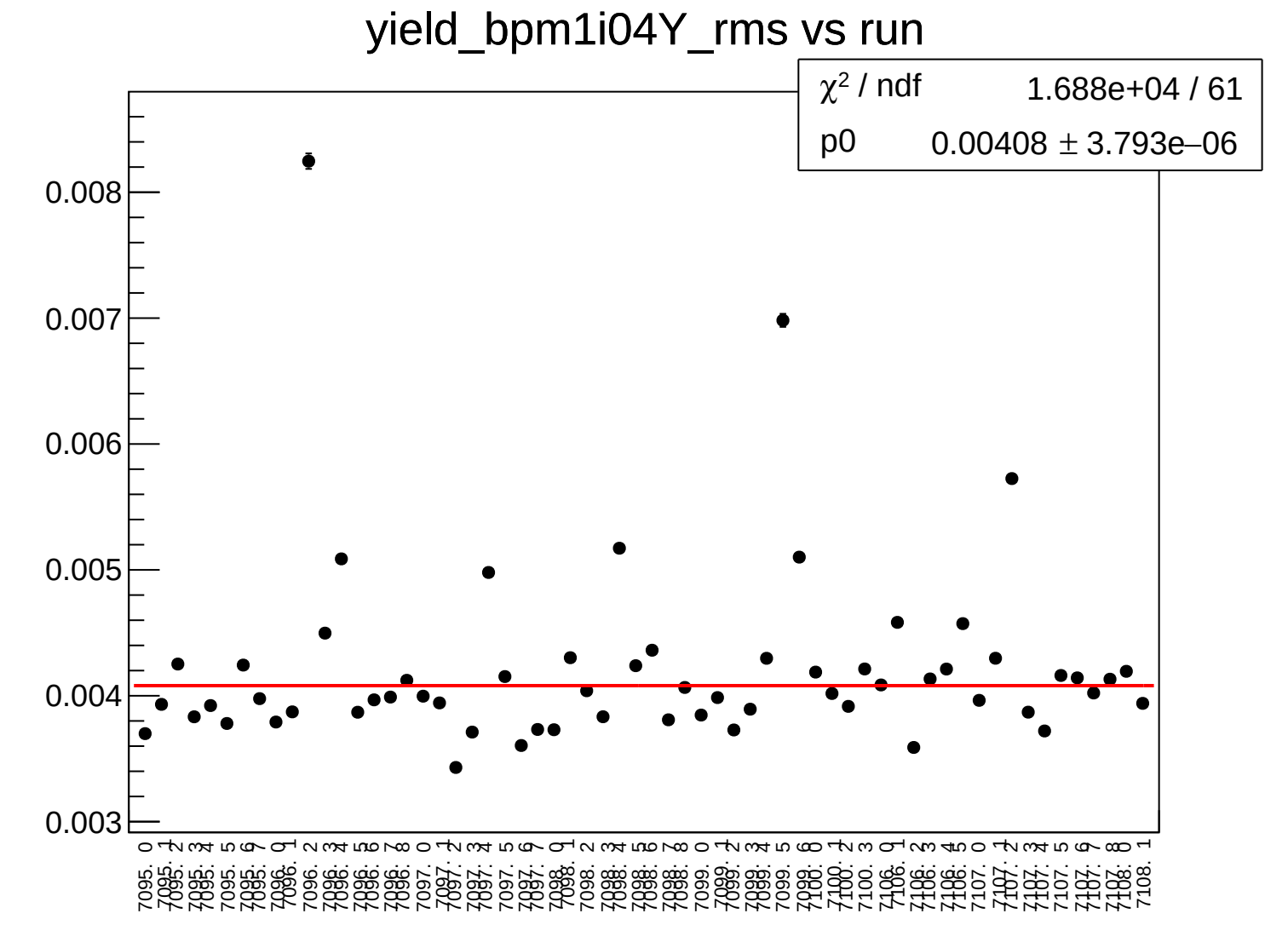

yield_bpm1i04X_mean vs run
χ² / ndf 3.583e+06 / 61
p0 1.289 ± 1.012e−05
1.32
1.3
1.28
1.26
1.24
pull
Entries 62
Mean −824.7
Std Dev 859.6
400
200
0
−200
−400
−600
−800

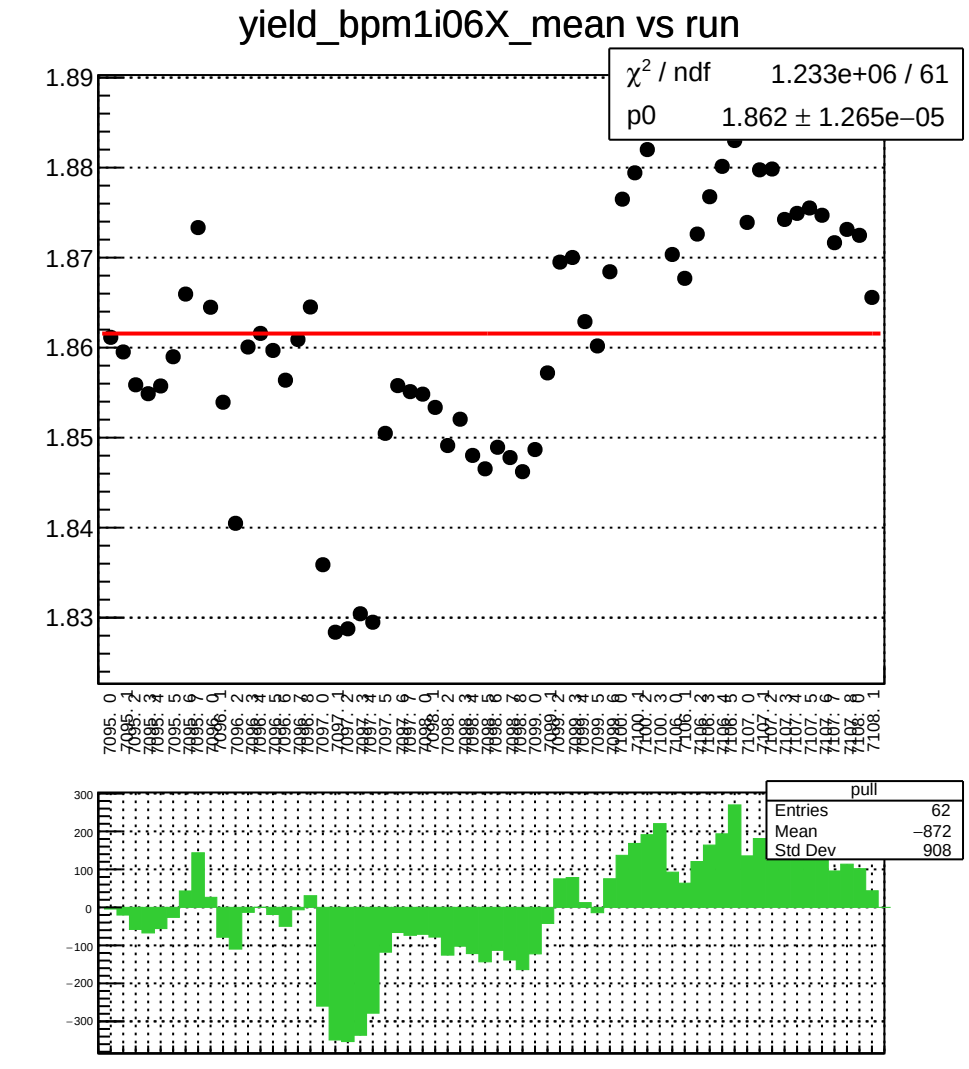

pull1D
Entries 62
Mean 7.561
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

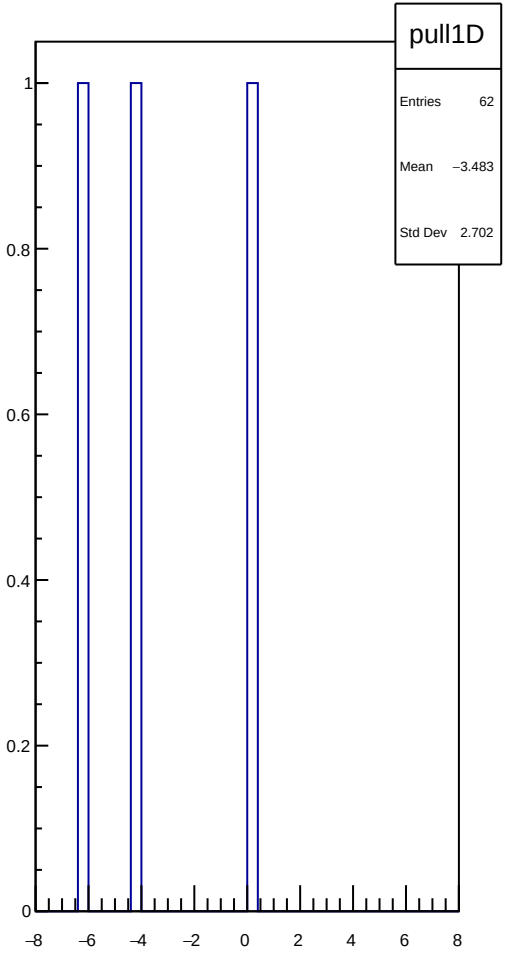

yield_bpm1i04X_rms vs run
χ² / ndf 1.343e+04 / 61
p0 0.007711 ± 7.157e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

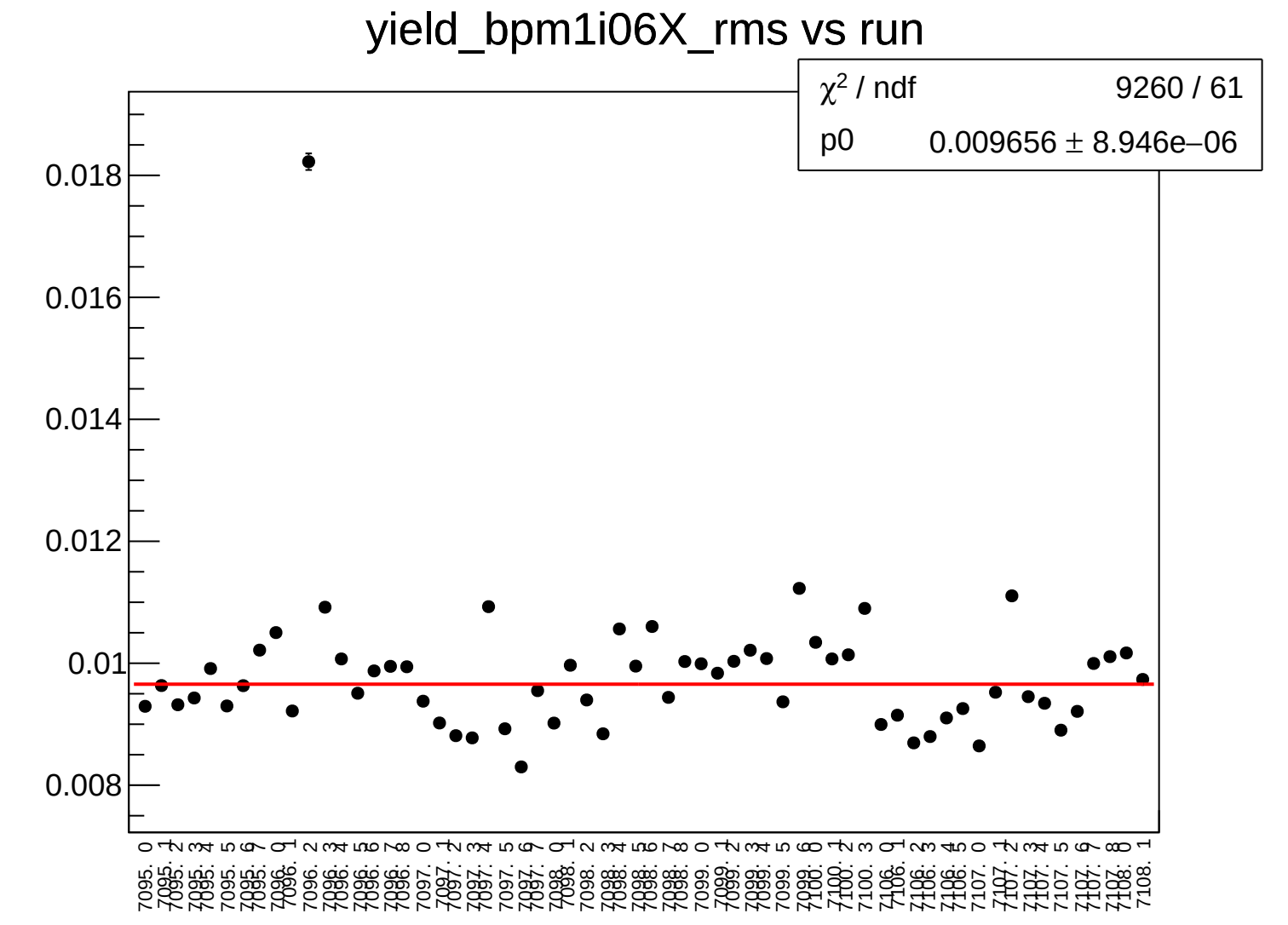

yield_bpm1i04Y_mean vs run
χ² / ndf 1.316e+06 / 61
p0 0.5279 ± 5.364e−06
0.545
0.54
0.535
0.53
0.525
0.52
0.515
pull
Entries 62
Mean 83.11
Std Dev 100.7
400
300
200
100
0
−100
−200
−300

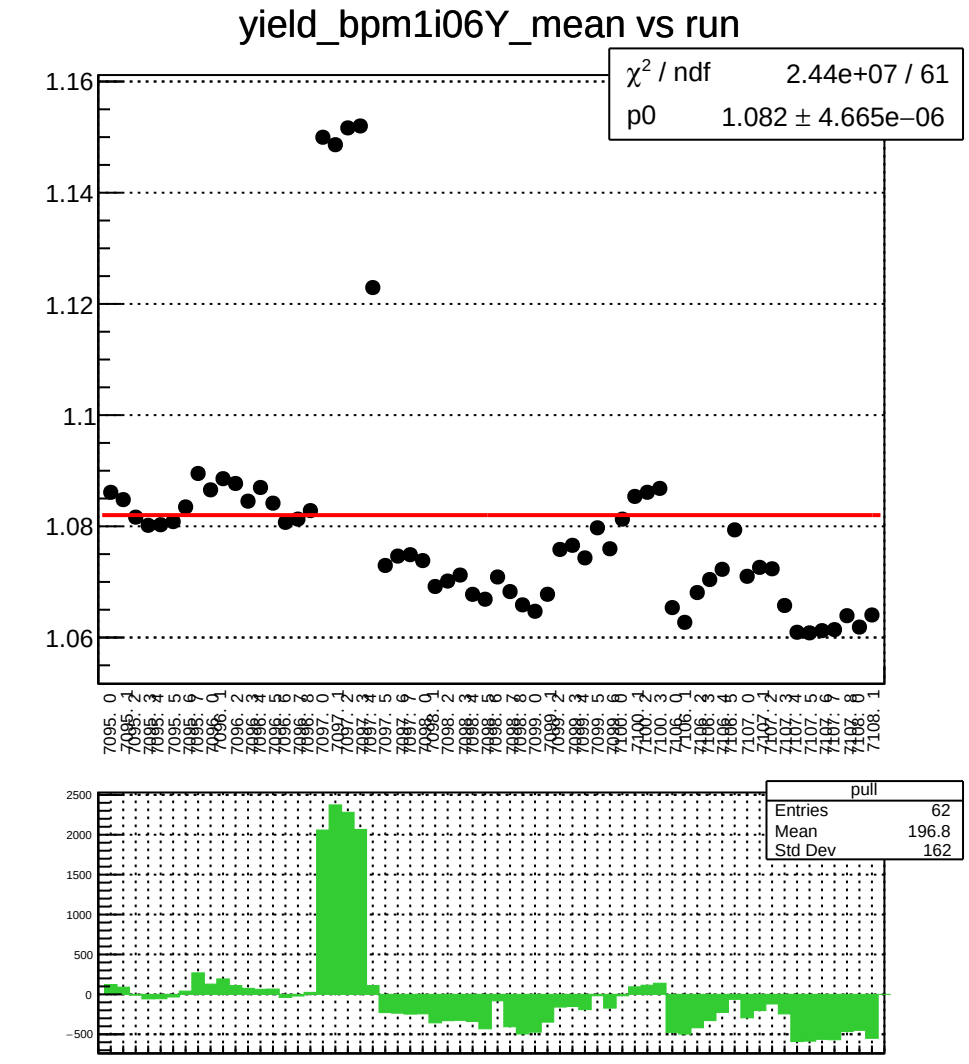

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

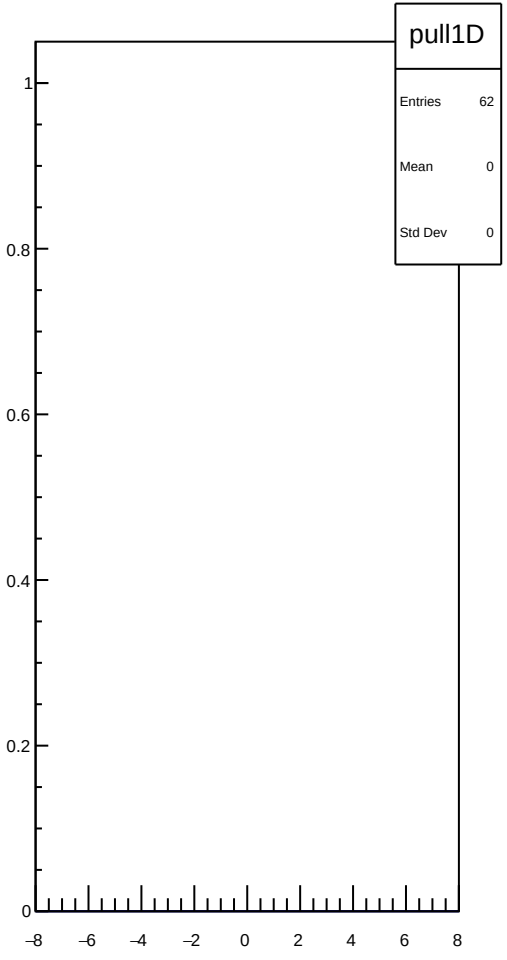

yield_bpm1i04Y_rms vs run
χ² / ndf 1.688e+04 / 61
p0 0.00408 ± 3.793e–06
0.008
0.007
0.006
0.005
0.004
0.003

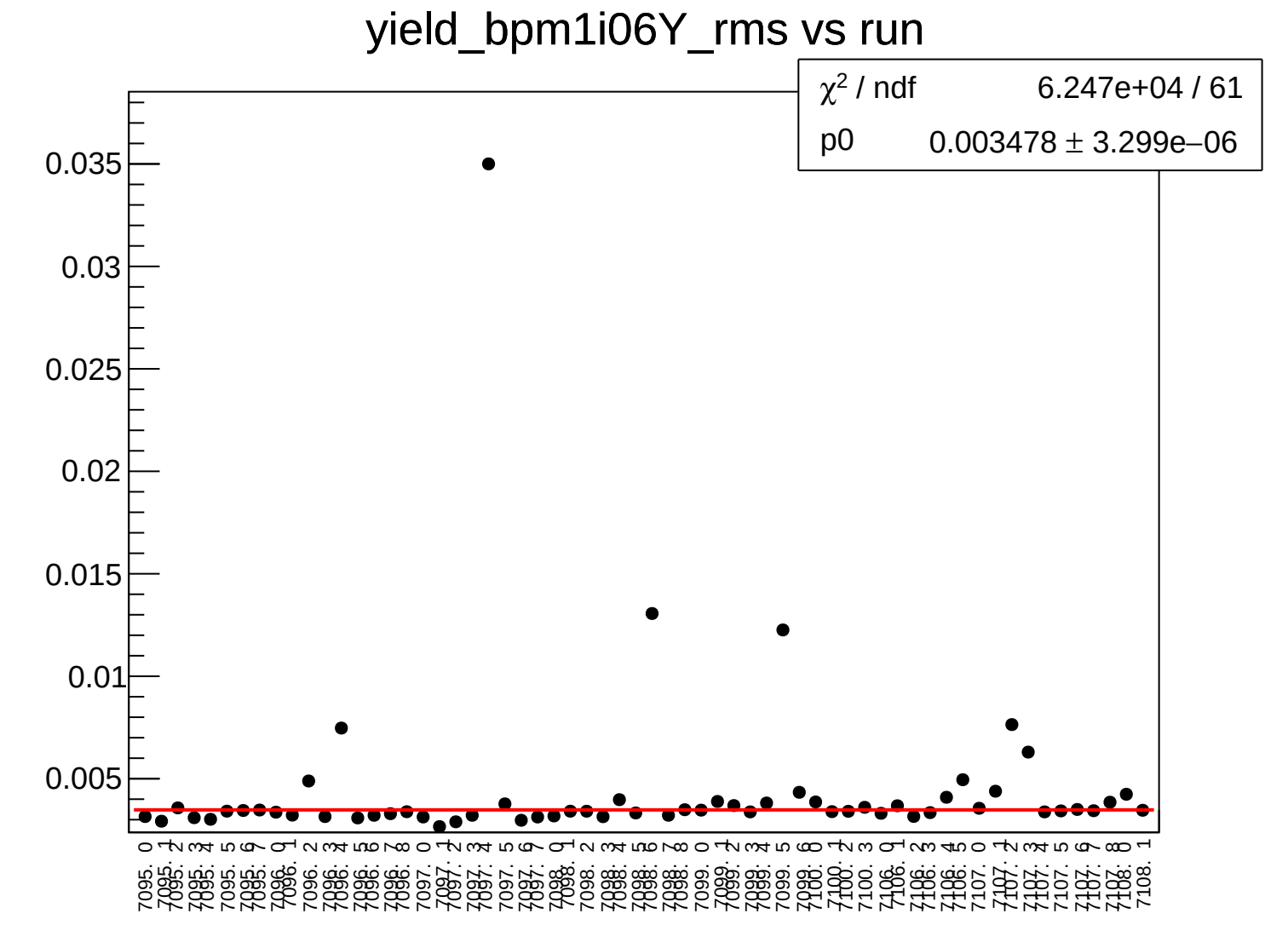

yield_bpm1i06X_mean vs run
χ² / ndf 1.233e+06 / 61
p0 1.862 ± 1.265e−05
1.89
1.88
1.87
1.86
1.85
1.84
1.83
pull
Entries 62
Mean −872
Std Dev 908
300
200
100
0
−100
−200
−300

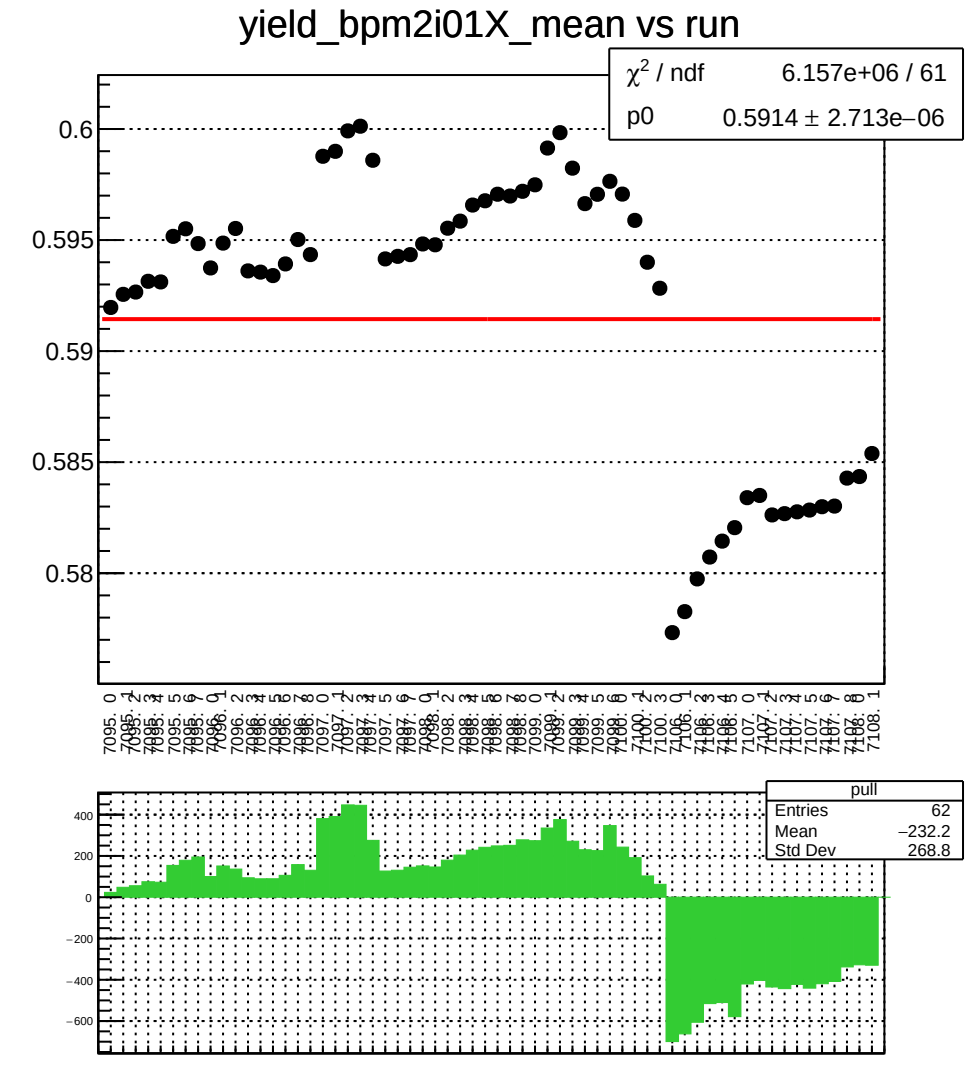

pull1D
Entries 62
Mean −3.483
Std Dev 2.702
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

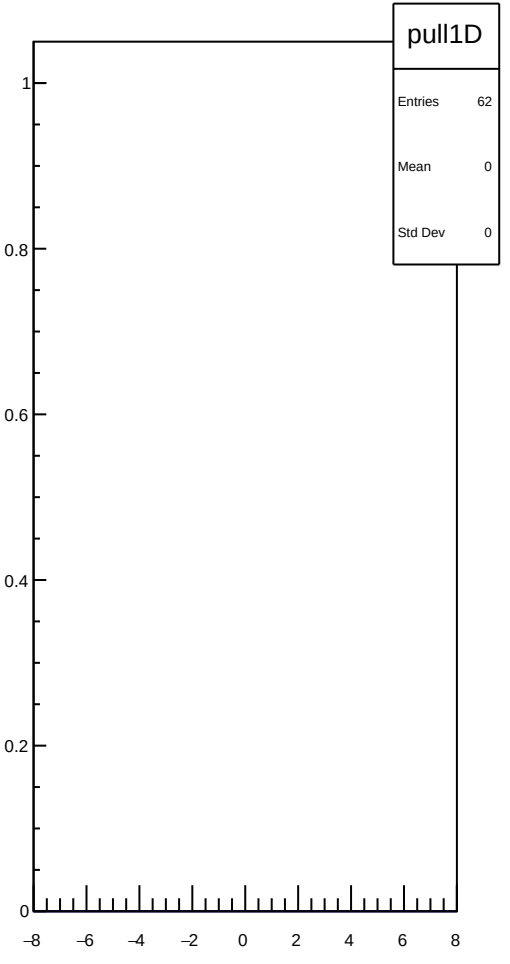

yield_bpm1i06X_rms vs run
χ^2 / ndf 9260 / 61
p0 0.009656 ± 8.946e−06
0.018
0.016
0.014
0.012
0.01
0.008

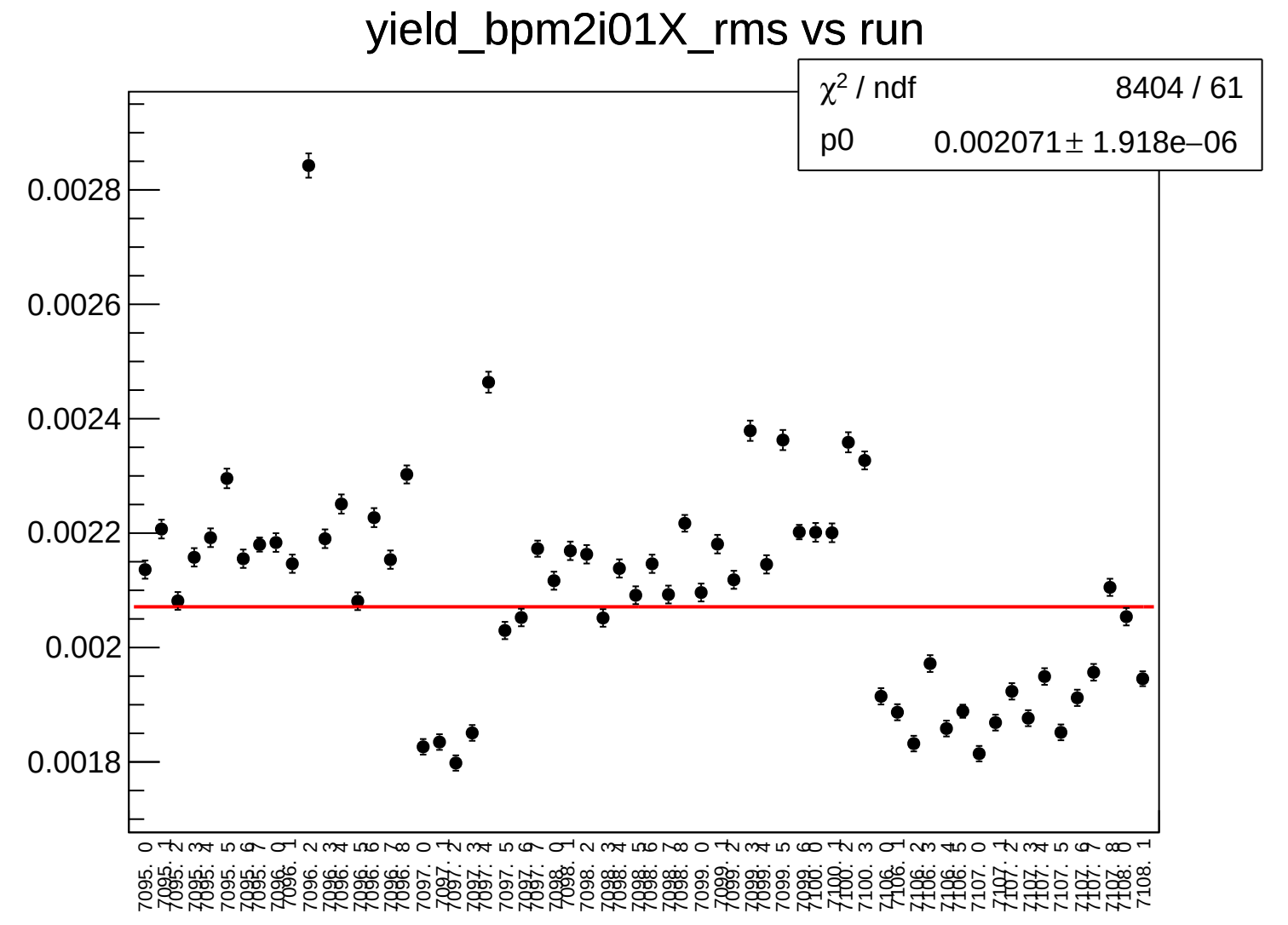

yield_bpm1i06Y_mean vs run
χ² / ndf 2.44e+07 / 61
p0 1.082 ± 4.665e−06
1.16
1.14
1.12
1.1
1.08
1.06
pull
Entries 62
Mean 196.8
Std Dev 162
2500
2000
1500
1000
500
0
−500

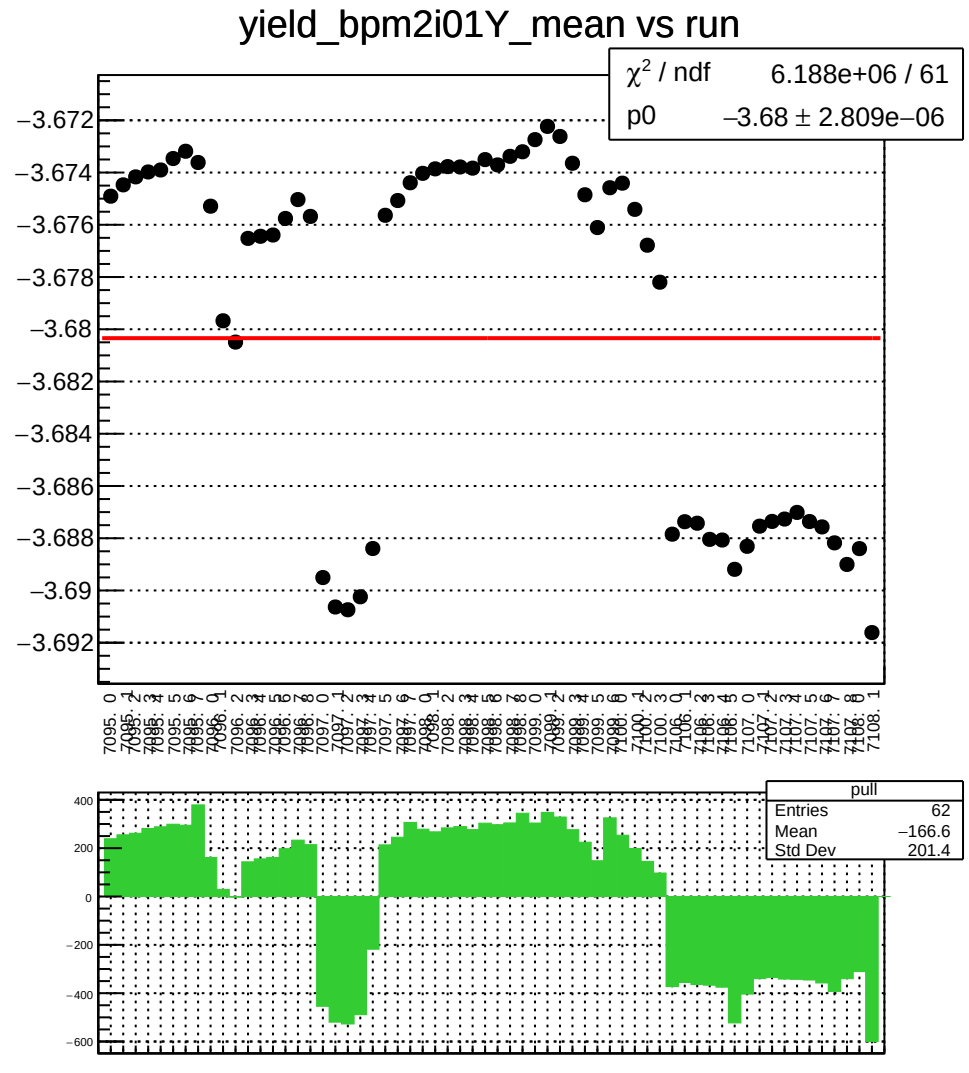

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

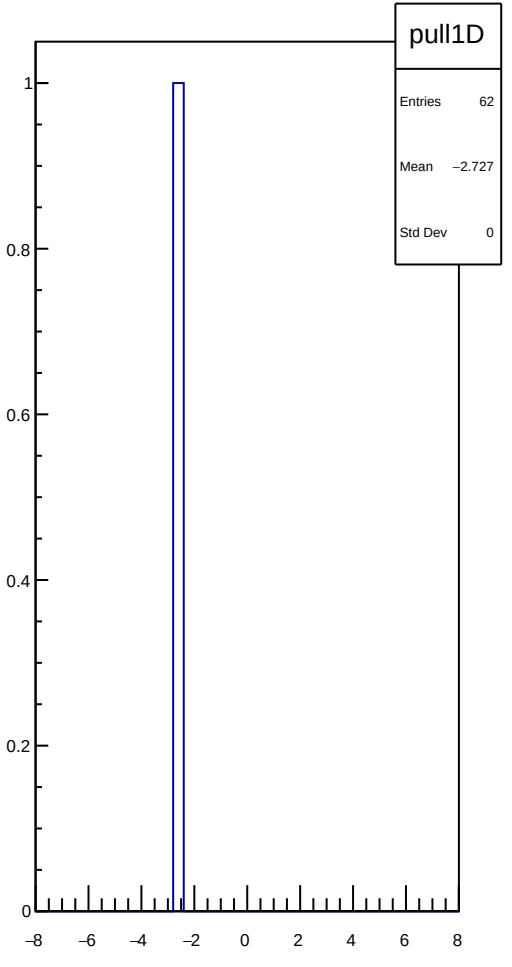

yield_bpm1i06Y_rms vs run
χ² / ndf 6.247e+04 / 61
p0 0.003478 ± 3.299e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

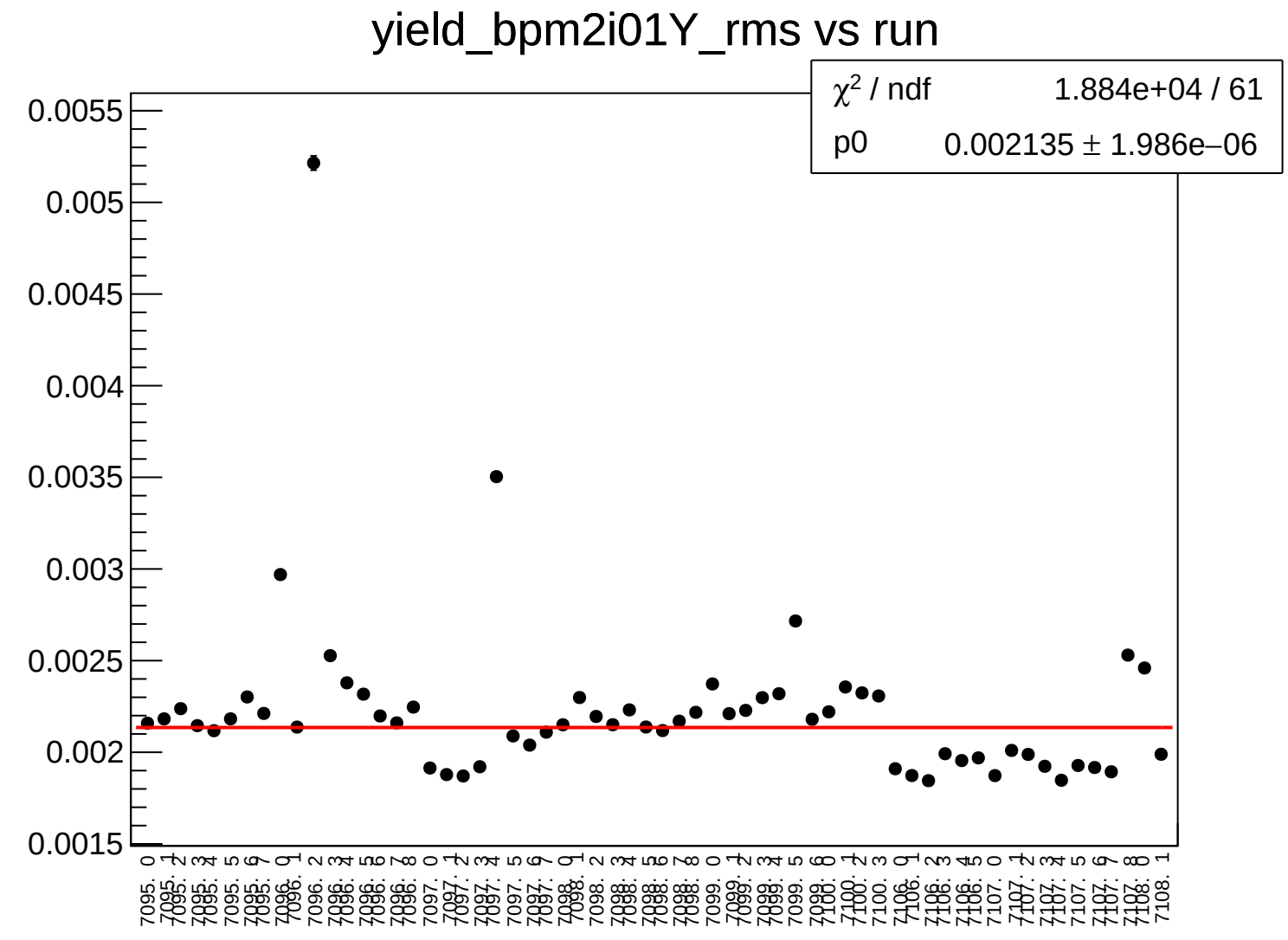

yield_bpm2i01X_mean vs run
χ² / ndf 6.157e+06 / 61
p0 0.5914 ± 2.713e−06
0.6
0.595
0.59
0.585
0.58
pull
Entries 62
Mean −232.2
Std Dev 268.8
400
200
0
−200
−400
−600

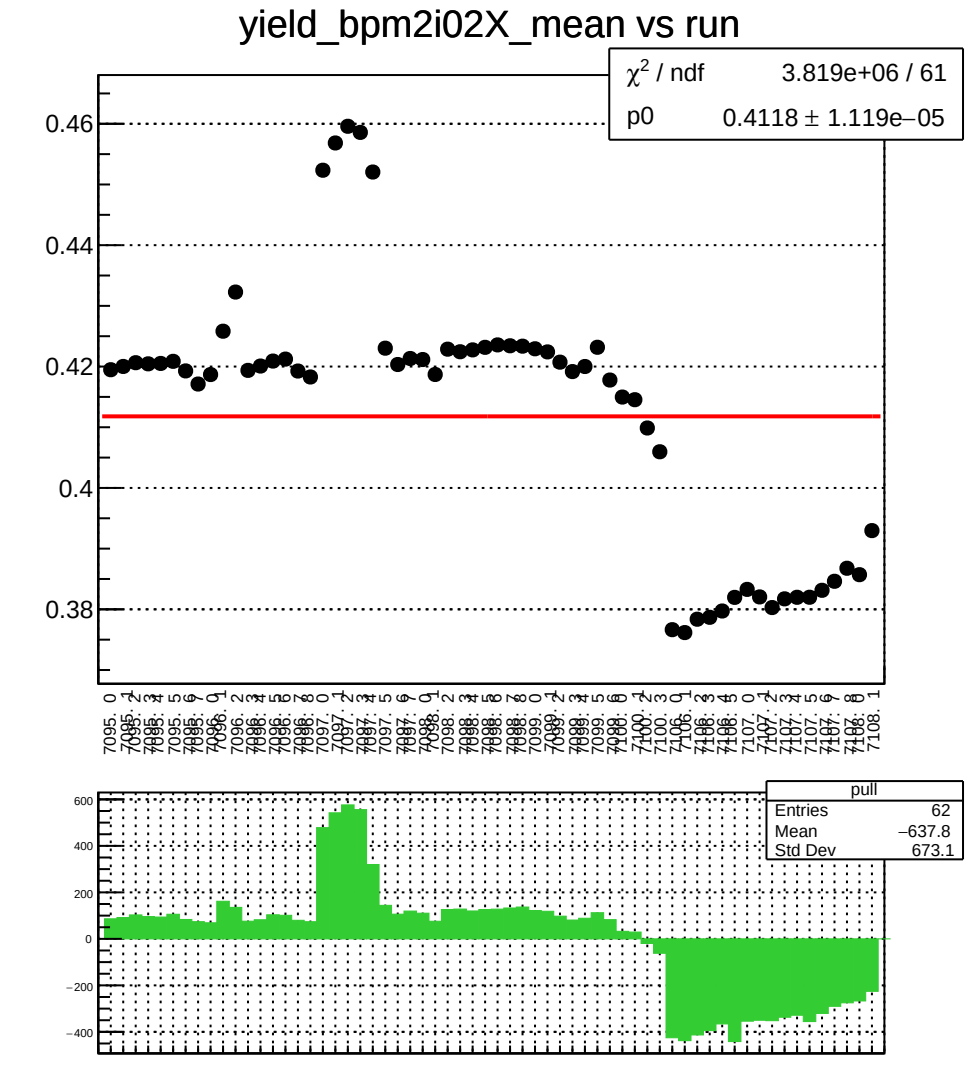

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

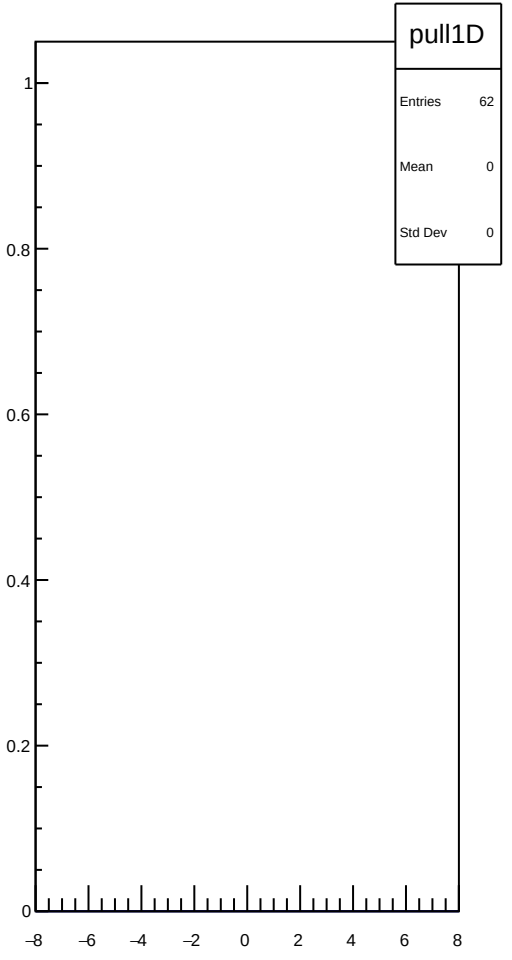

yield_bpm2i01X_rms vs run
χ² / ndf 8404 / 61
p0 0.002071 ± 1.918e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

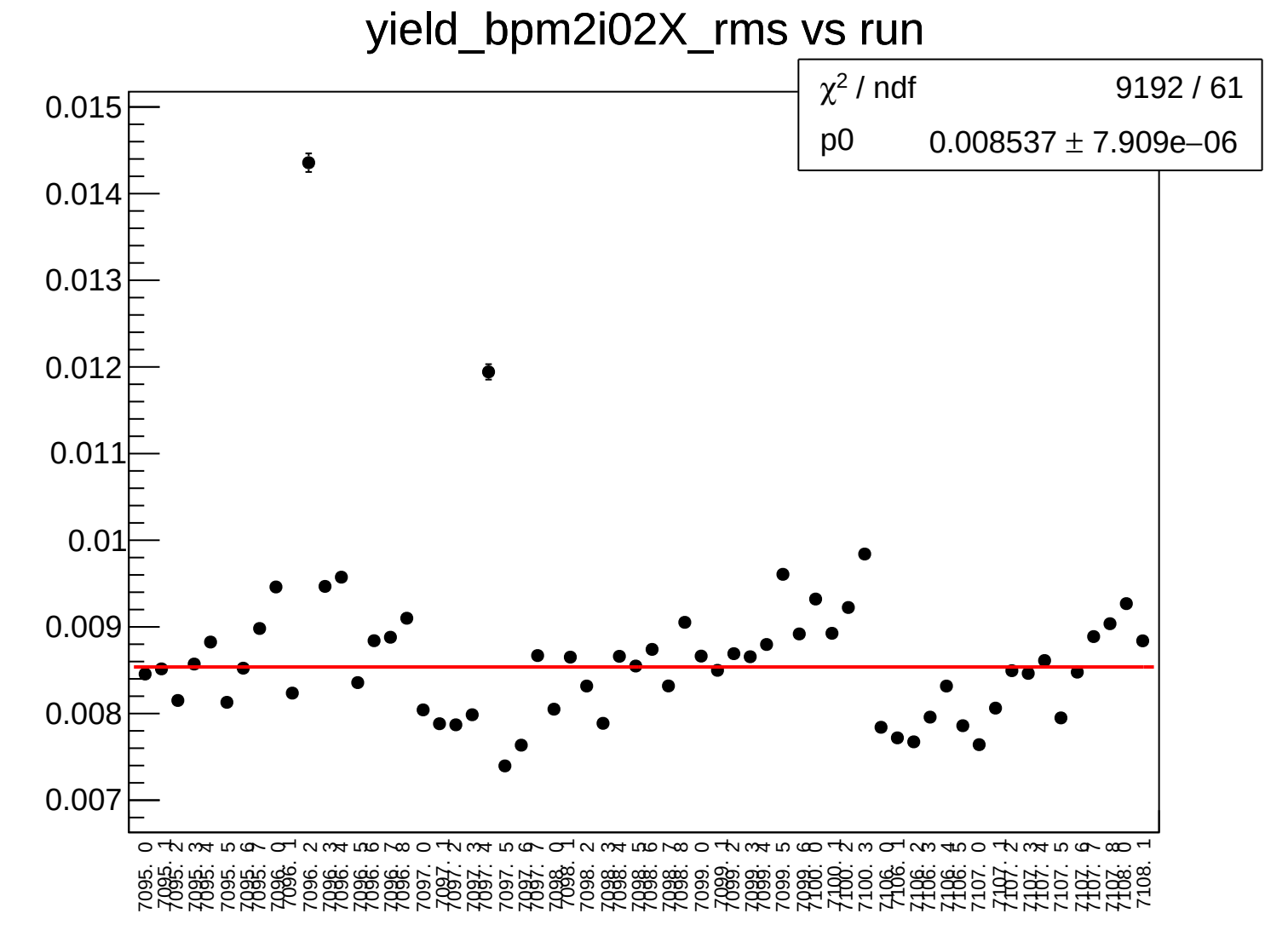

yield_bpm2i01Y_mean vs run
χ² / ndf 6.188e+06 / 61
p0 −3.68 ± 2.809e−06
−3.672
−3.674
−3.676
−3.678
−3.68
−3.682
−3.684
−3.686
−3.688
−3.69
−3.692
pull
Entries 62
Mean −166.6
Std Dev 201.4
400
200
0
−200
−400
−600

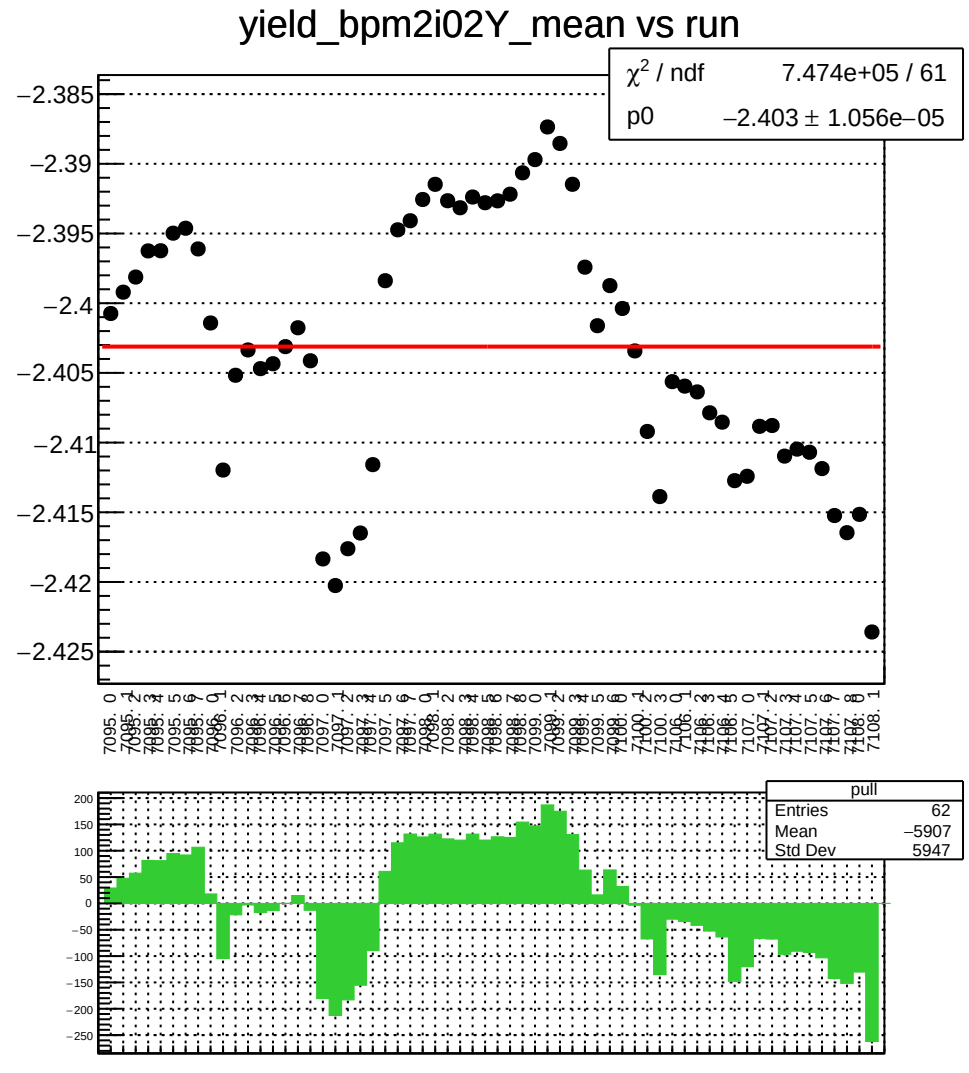

pull1D
Entries 62
Mean −2.727
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

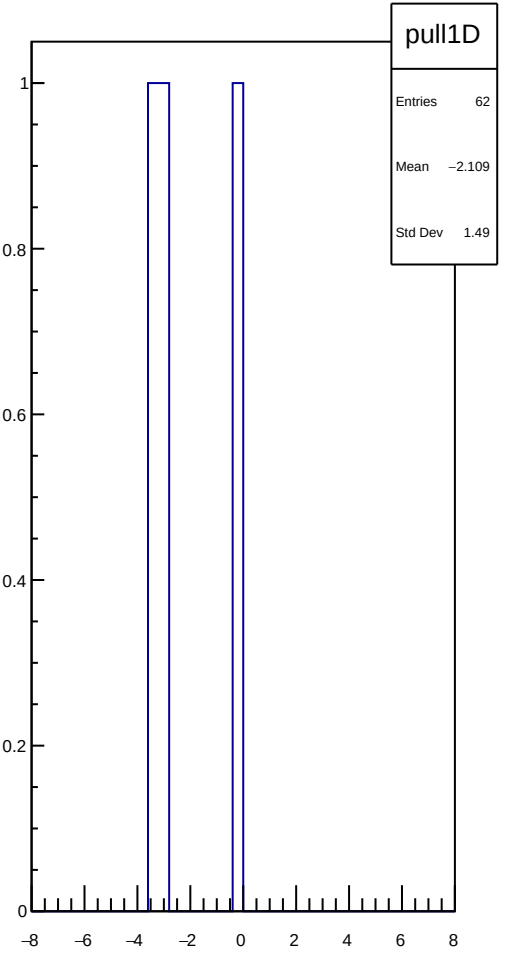

yield_bpm2i01Y_rms vs run
χ² / ndf 1.884e+04 / 61
p0 0.002135 ± 1.986e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

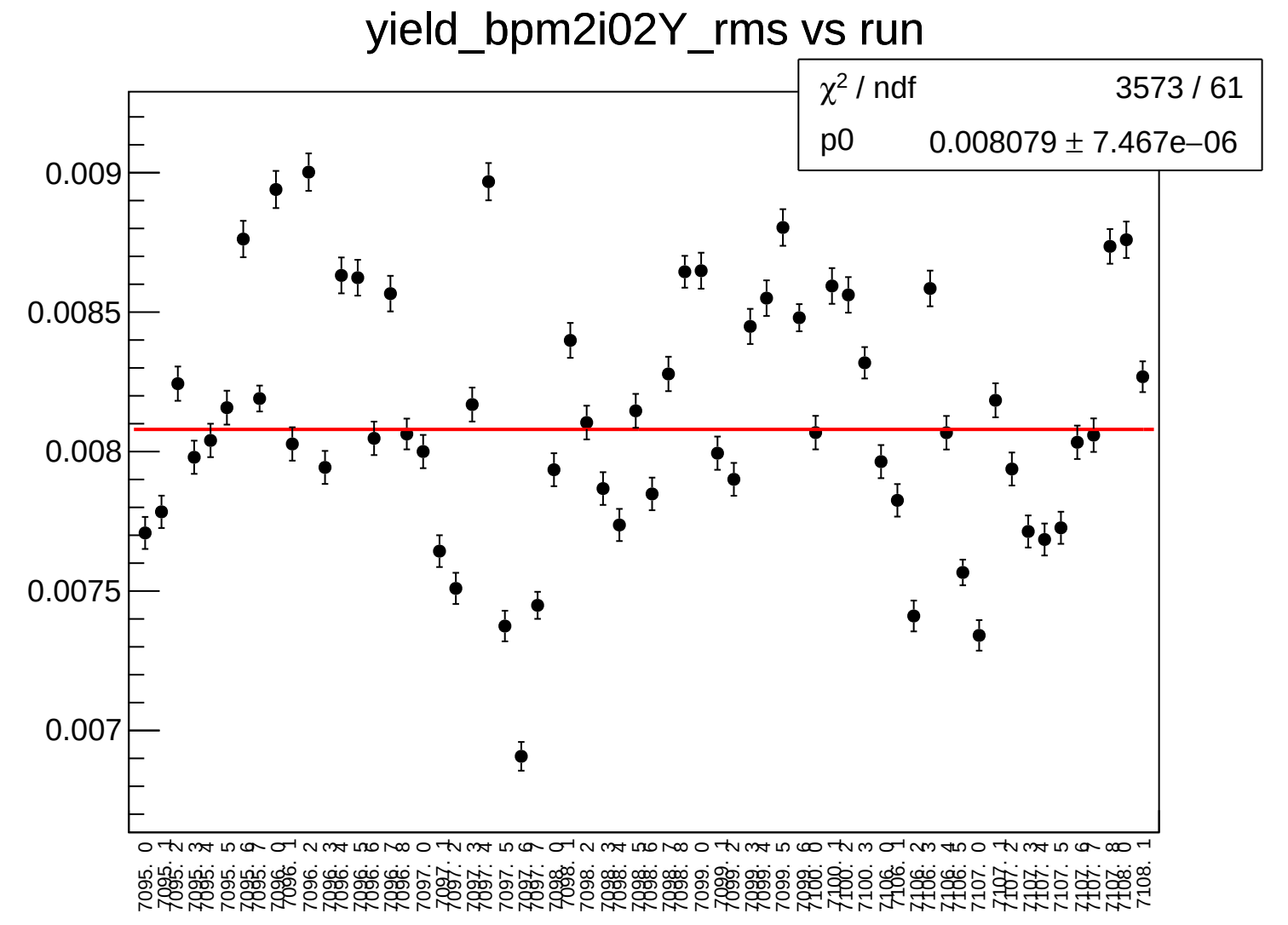

yield_bpm2i02X_mean vs run
χ² / ndf 3.819e+06 / 61
p0 0.4118 ± 1.119e−05
0.46
0.44
0.42
0.4
0.38
pull
Entries 62
Mean −637.8
Std Dev 673.1
600
400
200
0
−200
−400

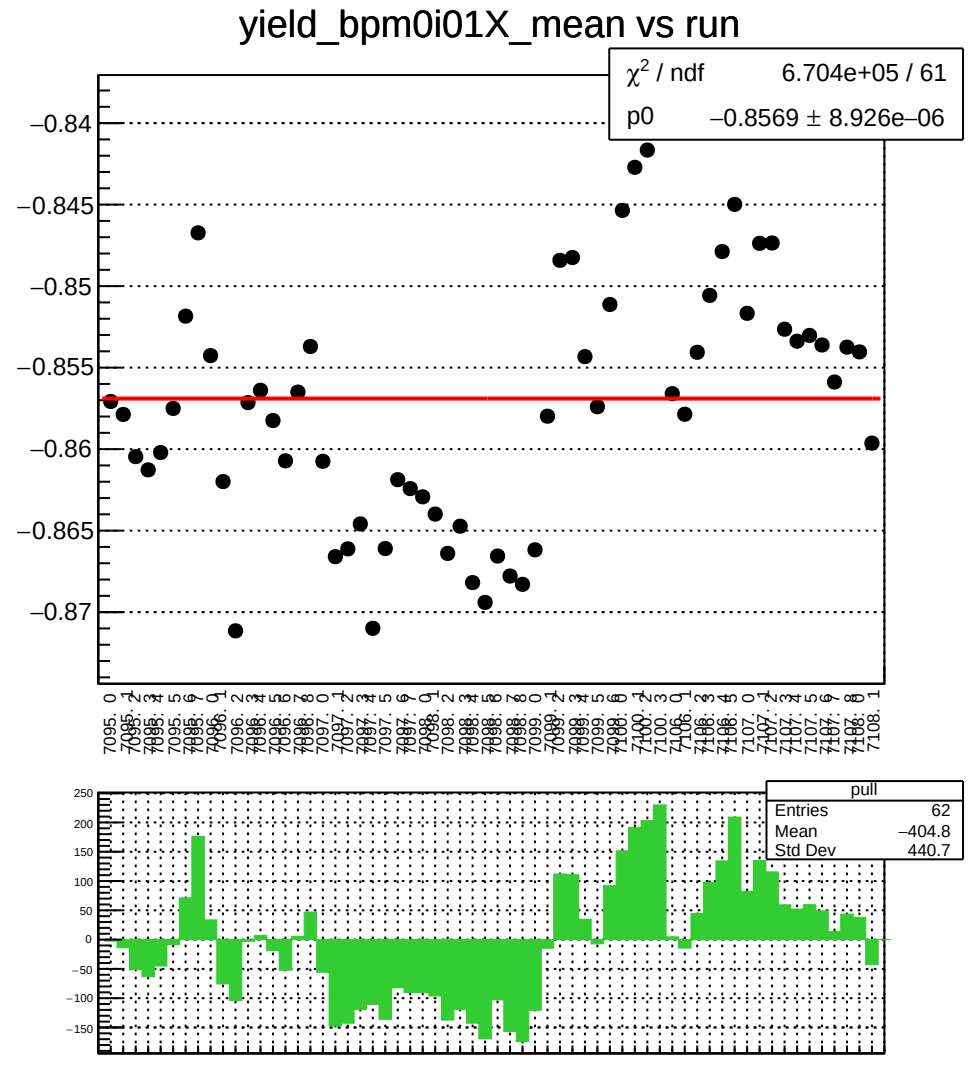

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

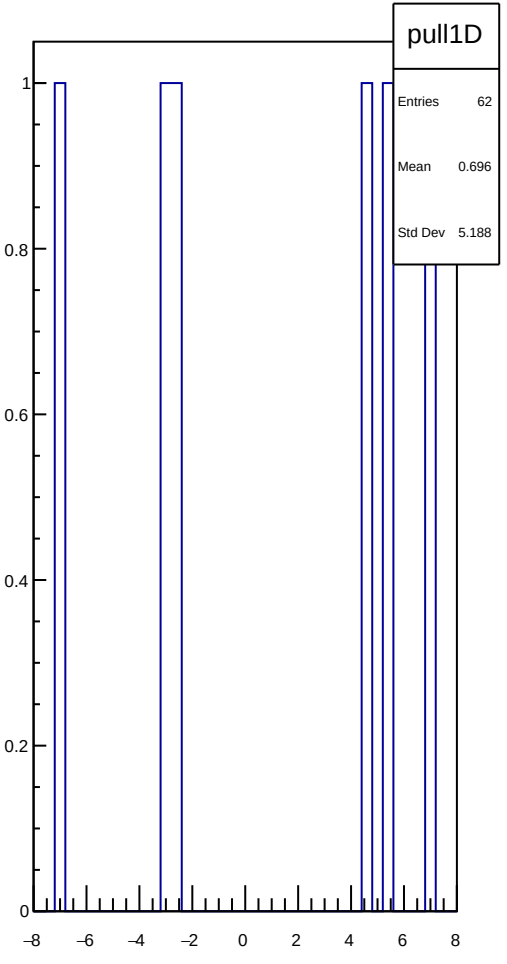

yield_bpm2i02X_rms vs run
χ² / ndf 9192 / 61
p0 0.008537 ± 7.909e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

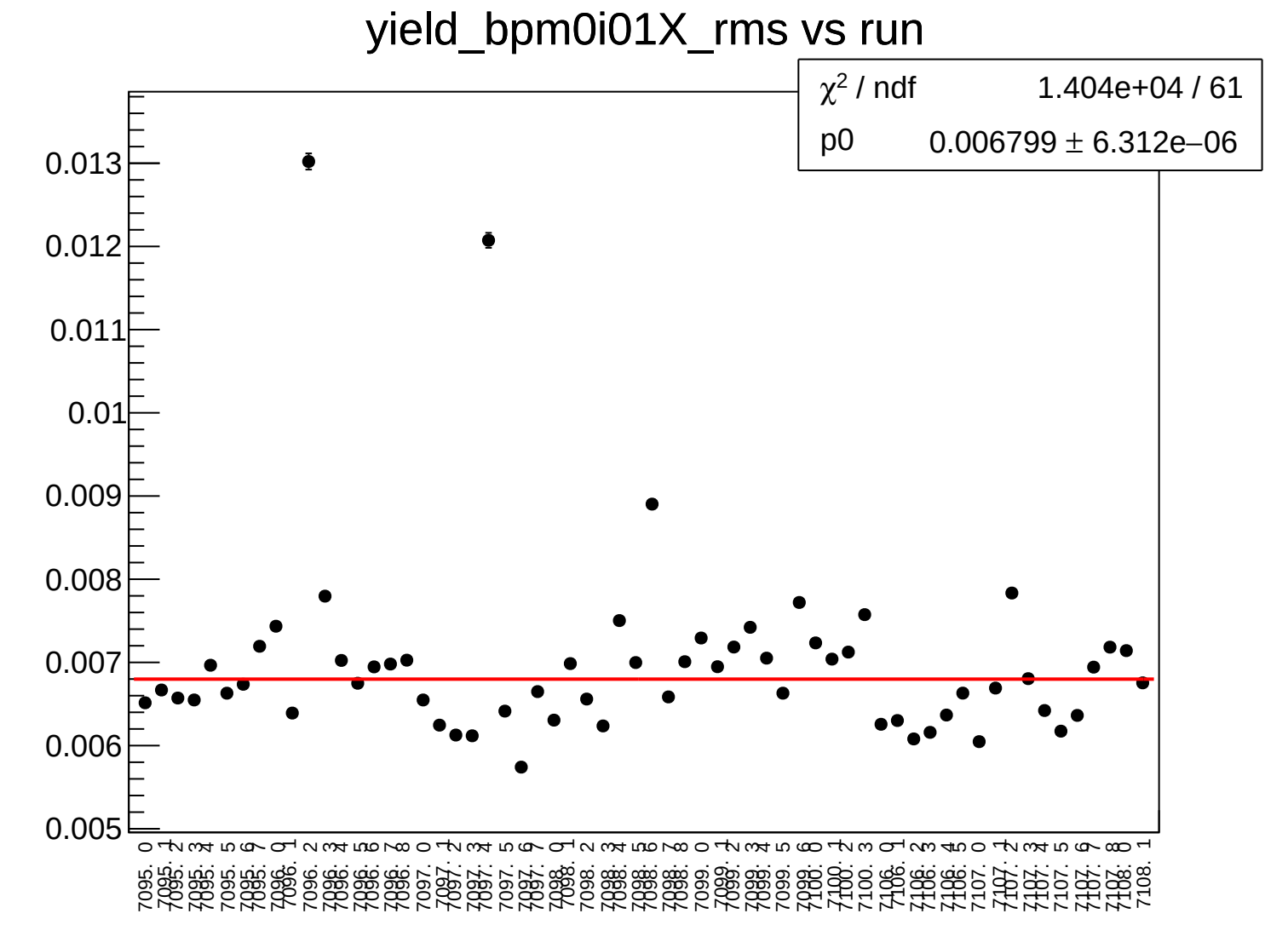

yield_bpm2i02Y_mean vs run
χ² / ndf 7.474e+05 / 61
p0 −2.403 ± 1.056e−05
−2.385
−2.39
−2.395
−2.4
−2.405
−2.41
−2.415
−2.42
−2.425
pull
Entries 62
Mean −5907
Std Dev 5947
200
150
100
50
0
−50
−100
−150
−200
−250

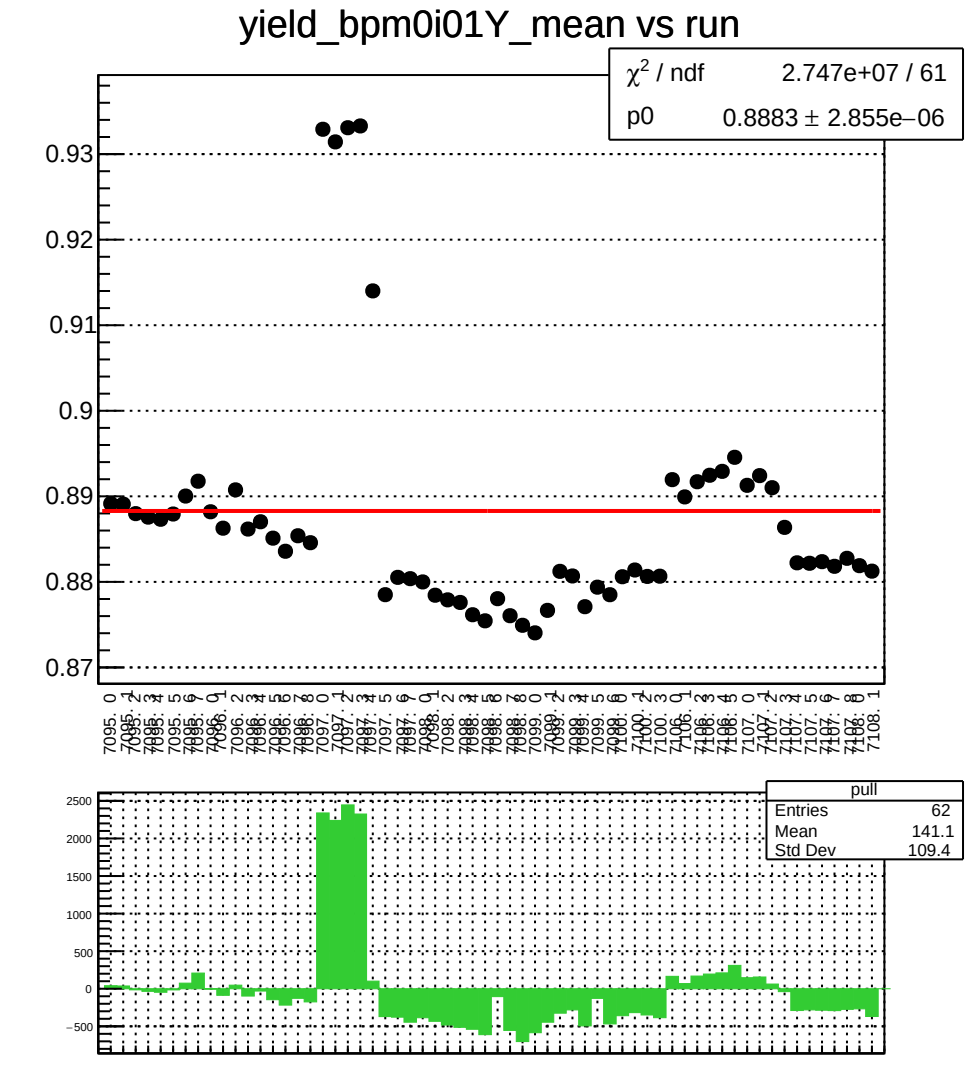

pull1D
Entries 62
Mean −2.109
Std Dev 1.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

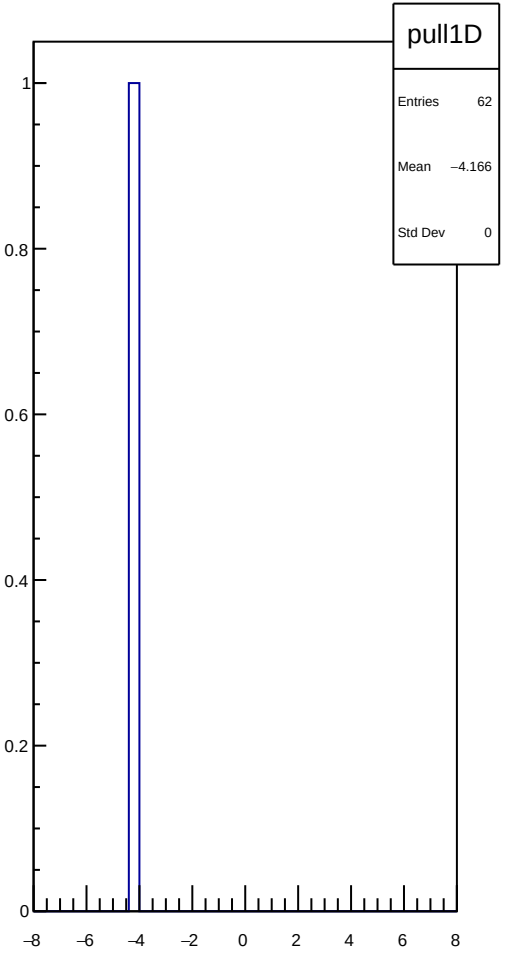

yield_bpm2i02Y_rms vs run
χ² / ndf 3573 / 61
p0 0.008079 ± 7.467e−06
0.009
0.0085
0.008
0.0075
0.007

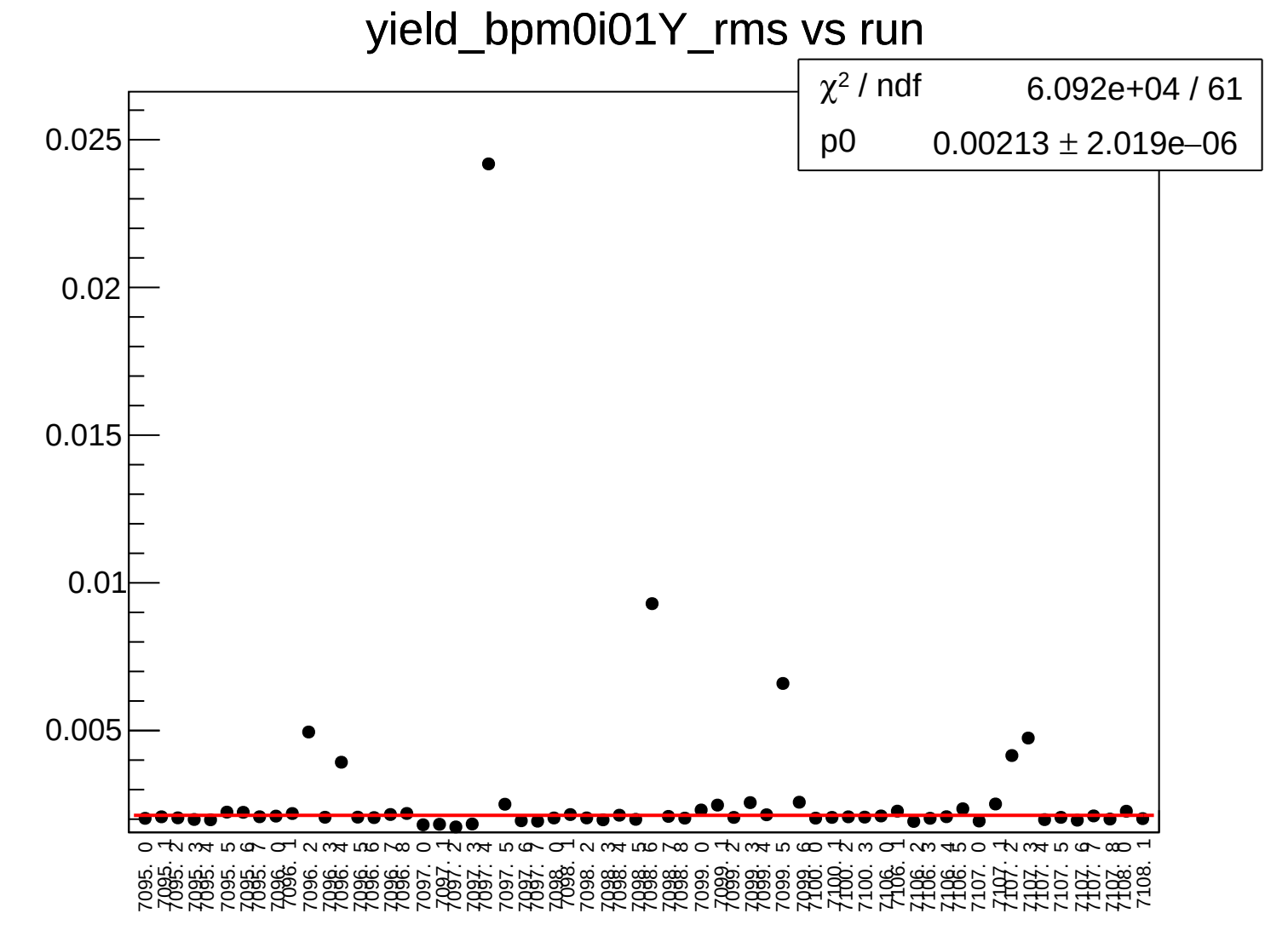

yield_bpm0i01X_mean vs run
χ² / ndf 6.704e+05 / 61
p0 −0.8569 ± 8.926e−06
−0.84
−0.845
−0.85
−0.855
−0.86
−0.865
−0.87
pull
Entries 62
Mean −404.8
Std Dev 440.7
250
200
150
100
50
0
−50
−100
−150

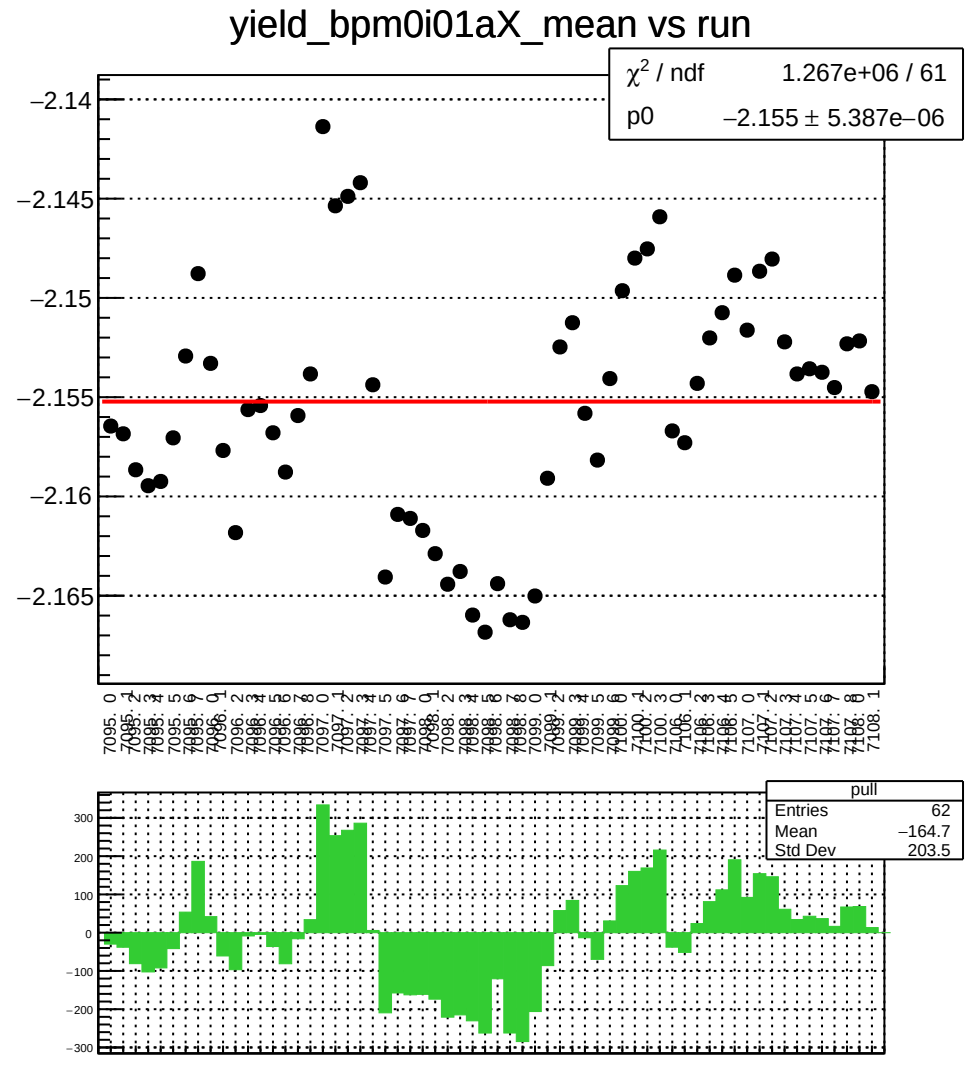

pull1D
Entries 62
Mean 0.696
Std Dev 5.188
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

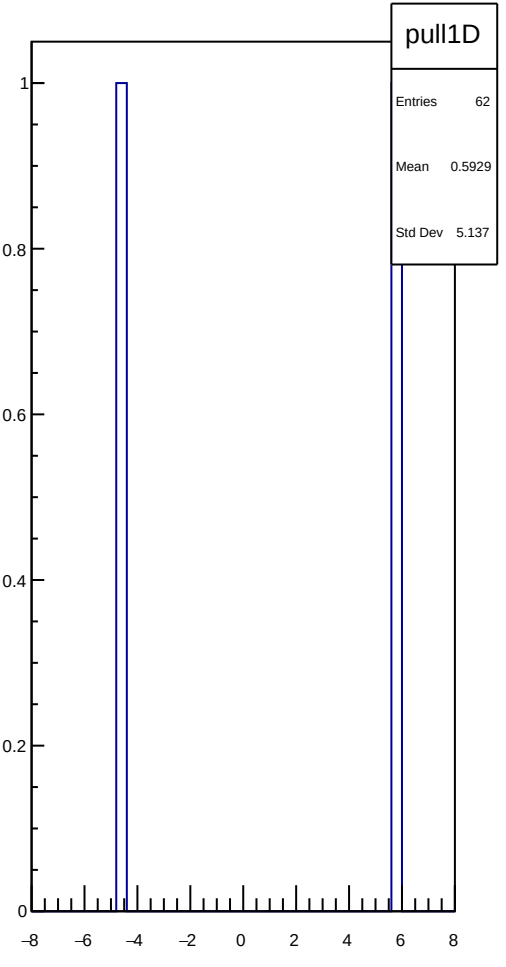

yield_bpm0i01X_rms vs run
χ² / ndf 1.404e+04 / 61
p0 0.006799 ± 6.312e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

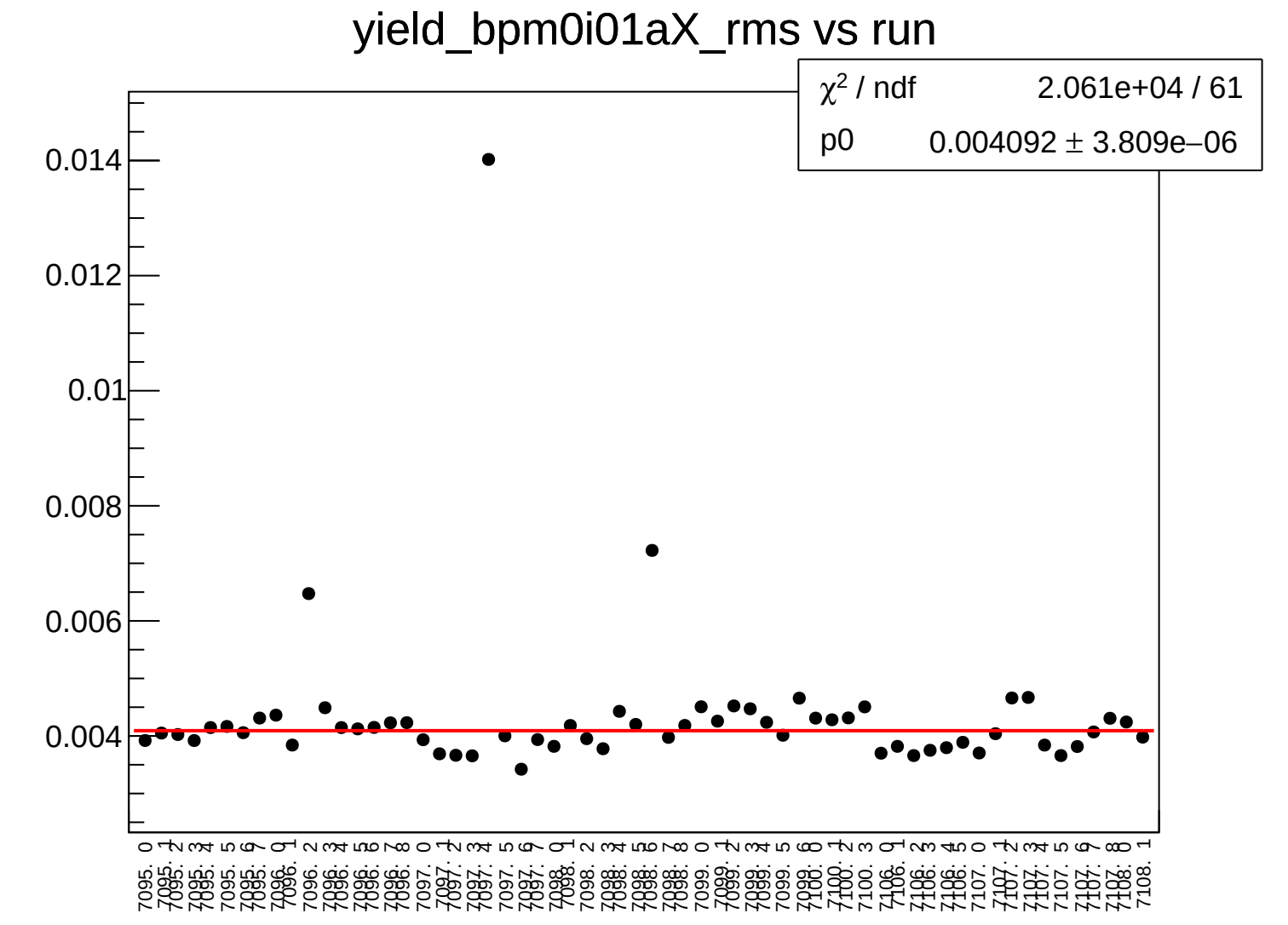

yield_bpm0i01Y_mean vs run
χ² / ndf 2.747e+07 / 61
p0 0.8883 ± 2.855e−06
0.93
0.92
0.91
0.9
0.89
0.88
0.87
pull
Entries 62
Mean 141.1
Std Dev 109.4
2500
2000
1500
1000
500
0
−500

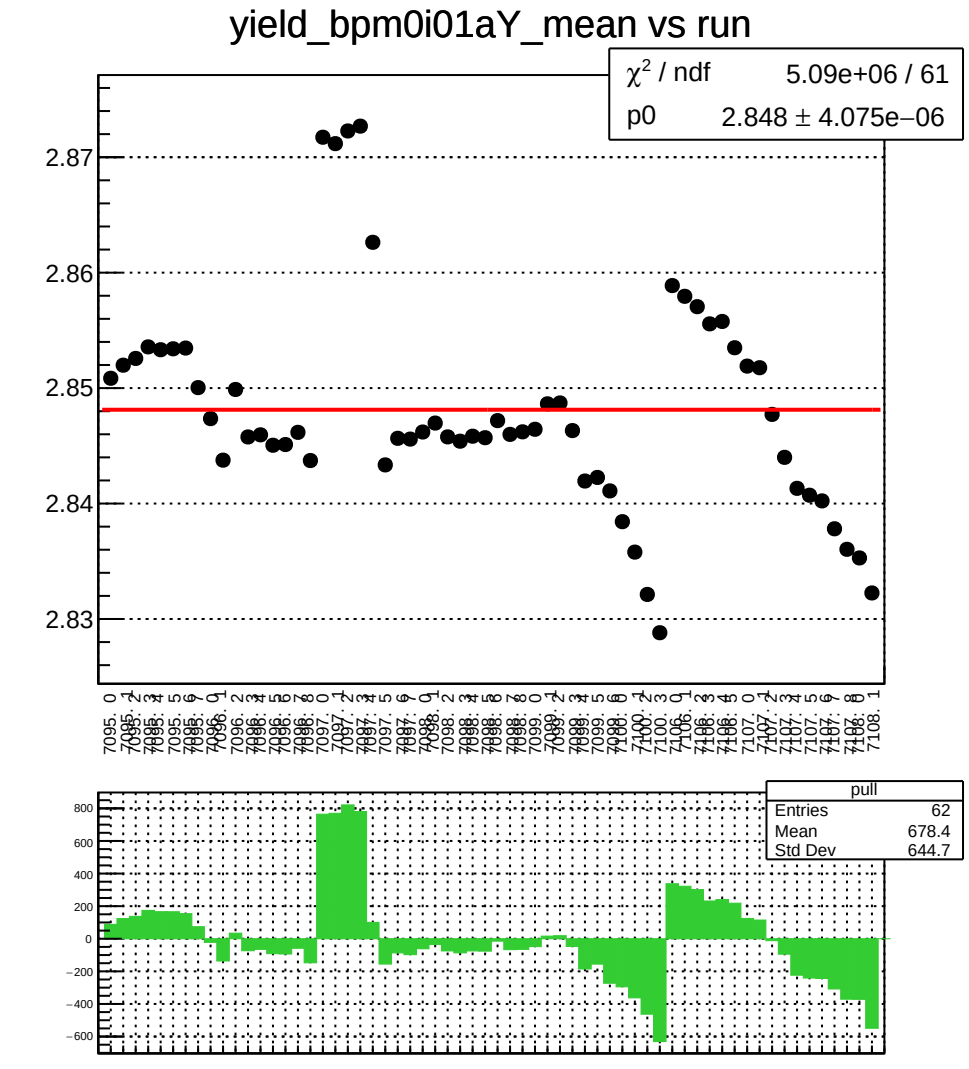

pull1D
Entries 62
Mean −4.166
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

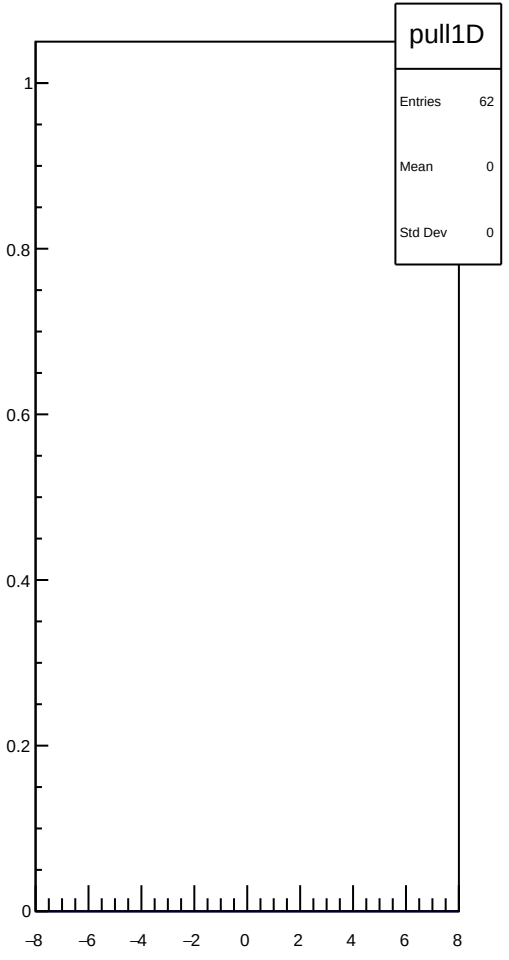

yield_bpm0i01Y_rms vs run
χ² / ndf 6.092e+04 / 61
p0 0.00213 ± 2.019e−06
0.025
0.02
0.015
0.01
0.005

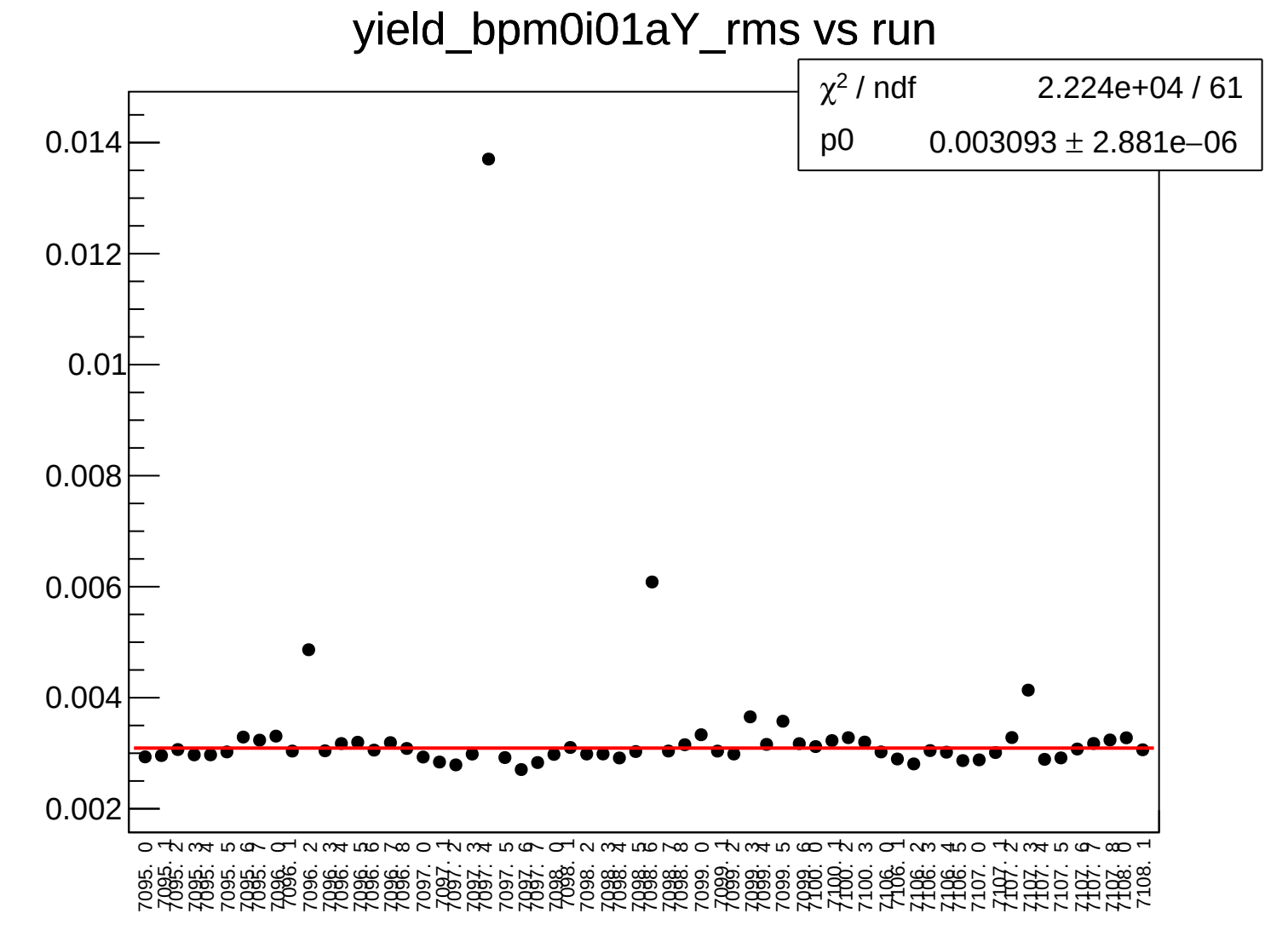

yield_bpm0i01aX_mean vs run
χ² / ndf 1.267e+06 / 61
p0 −2.155 ± 5.387e−06
−2.14
−2.145
−2.15
−2.155
−2.16
−2.165
pull
Entries 62
Mean −164.7
Std Dev 203.5
300
200
100
0
−100
−200
−300

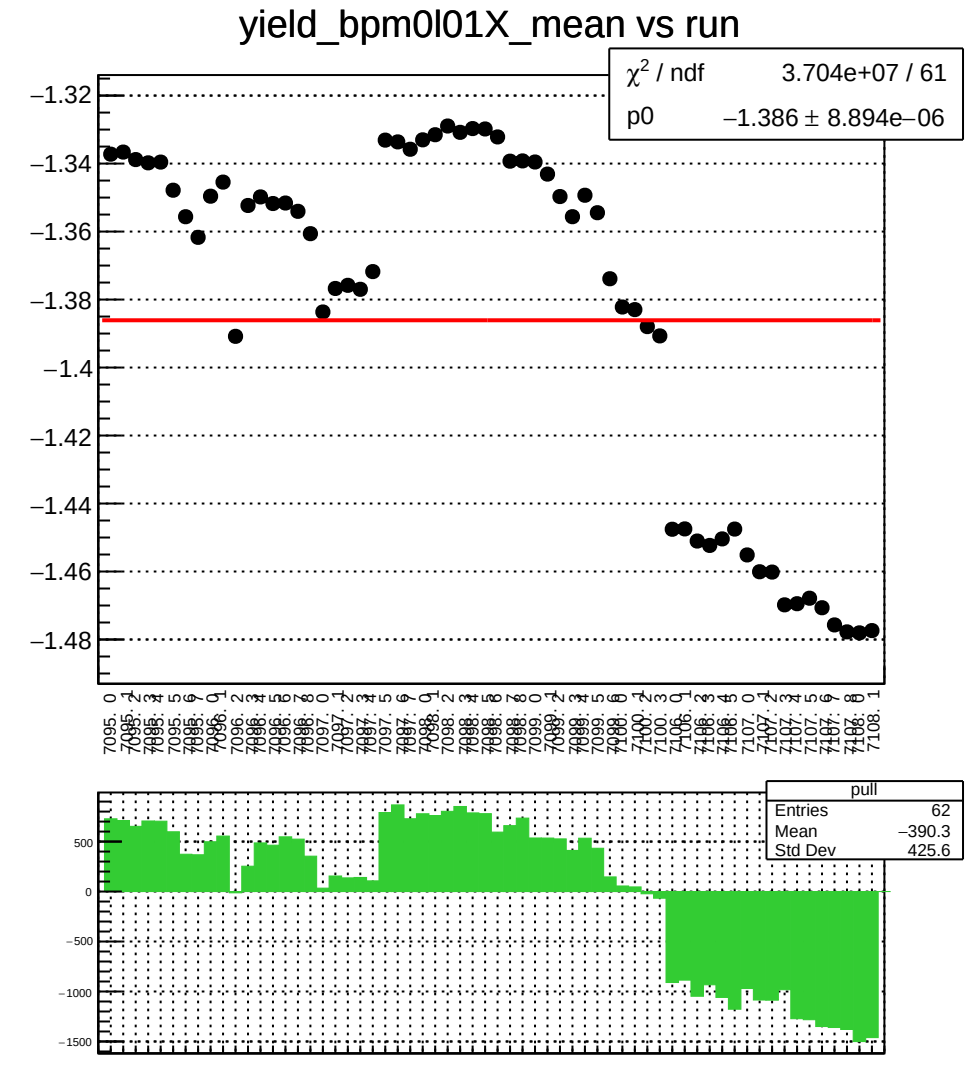

pull1D
Entries 62
Mean 0.5929
Std Dev 5.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

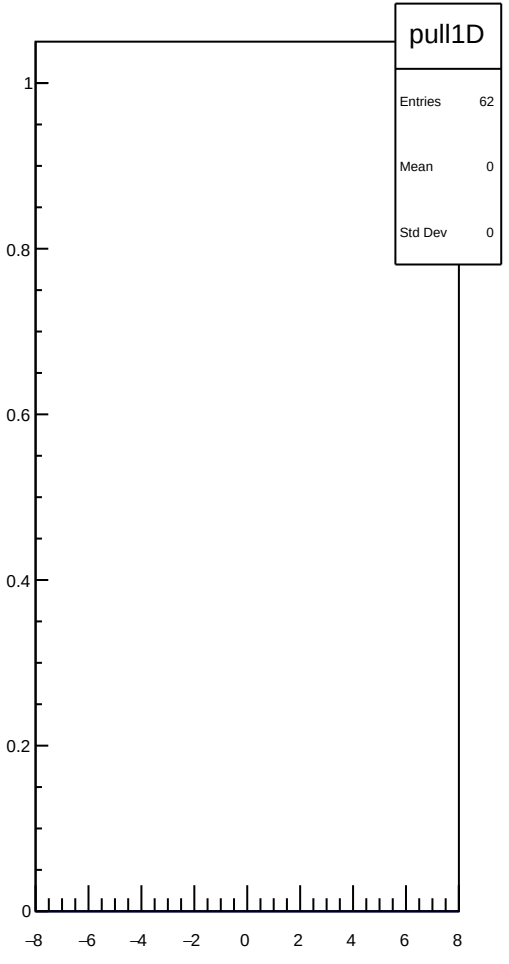

yield_bpm0i01aX_rms vs run
χ² / ndf 2.061e+04 / 61
p0 0.004092 ± 3.809e−06
0.014
0.012
0.01
0.008
0.006
0.004

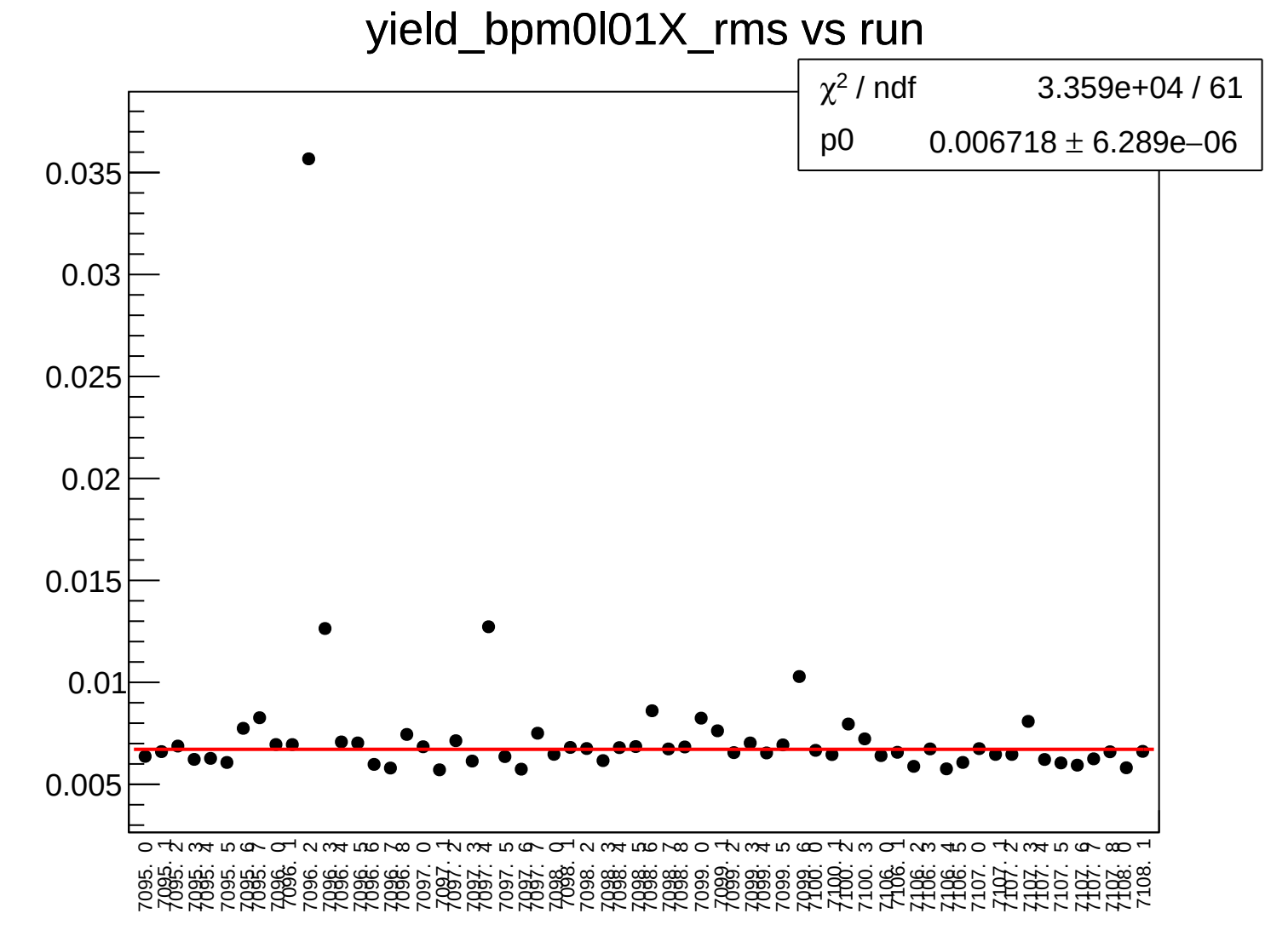

yield_bpm0i01aY_mean vs run
χ² / ndf 5.09e+06 / 61
p0 2.848 ± 4.075e−06
2.87
2.86
2.85
2.84
2.83
pull
Entries 62
Mean 678.4
Std Dev 644.7
800
600
400
200
0
−200
−400
−600

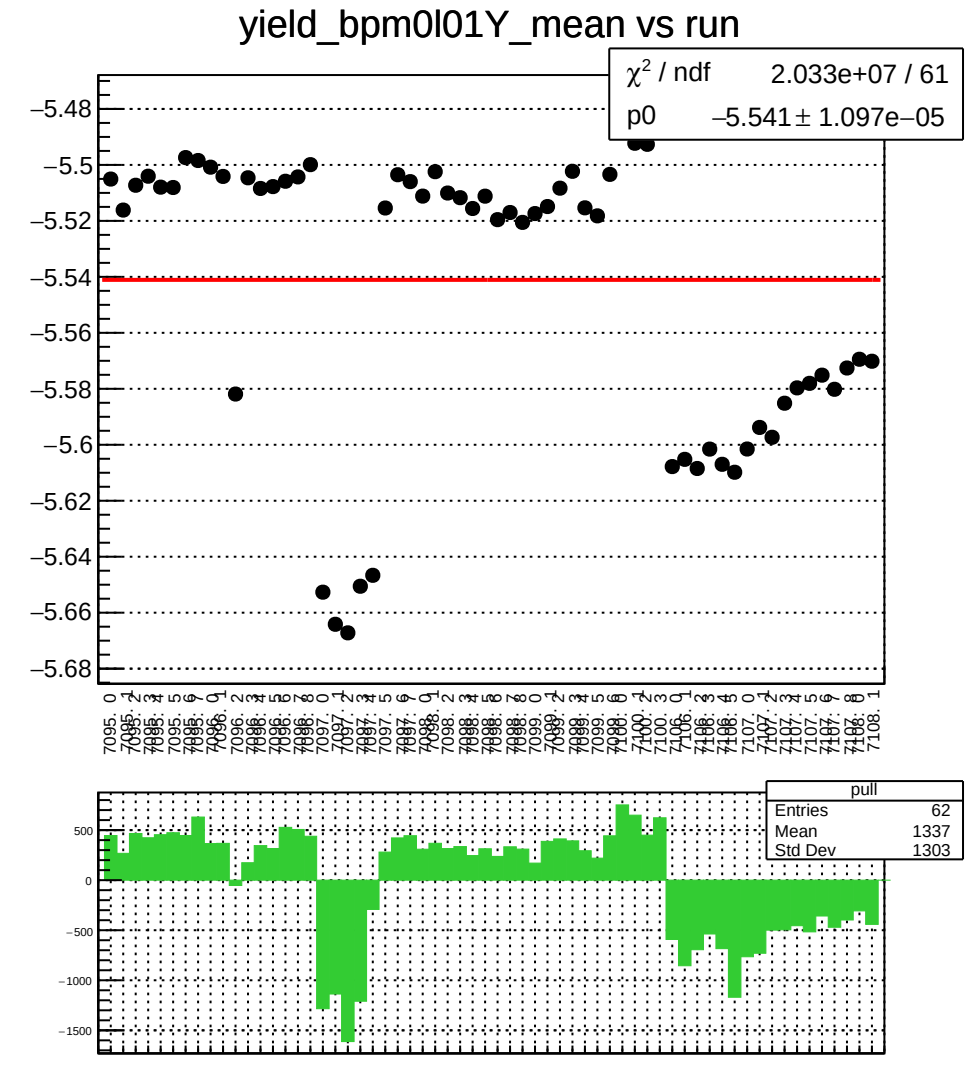

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

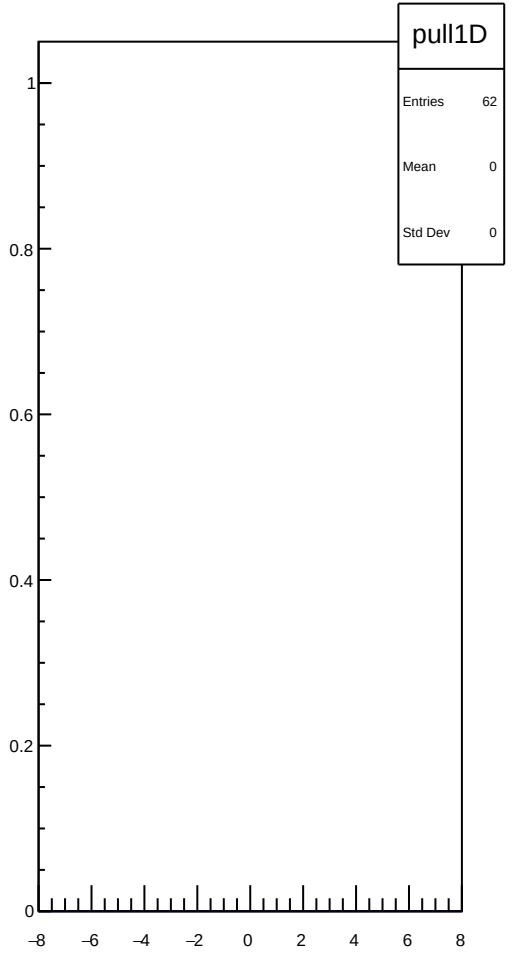

yield_bpm0i01aY_rms vs run
χ² / ndf 2.224e+04 / 61
p0 0.003093 ± 2.881e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7106. 6
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

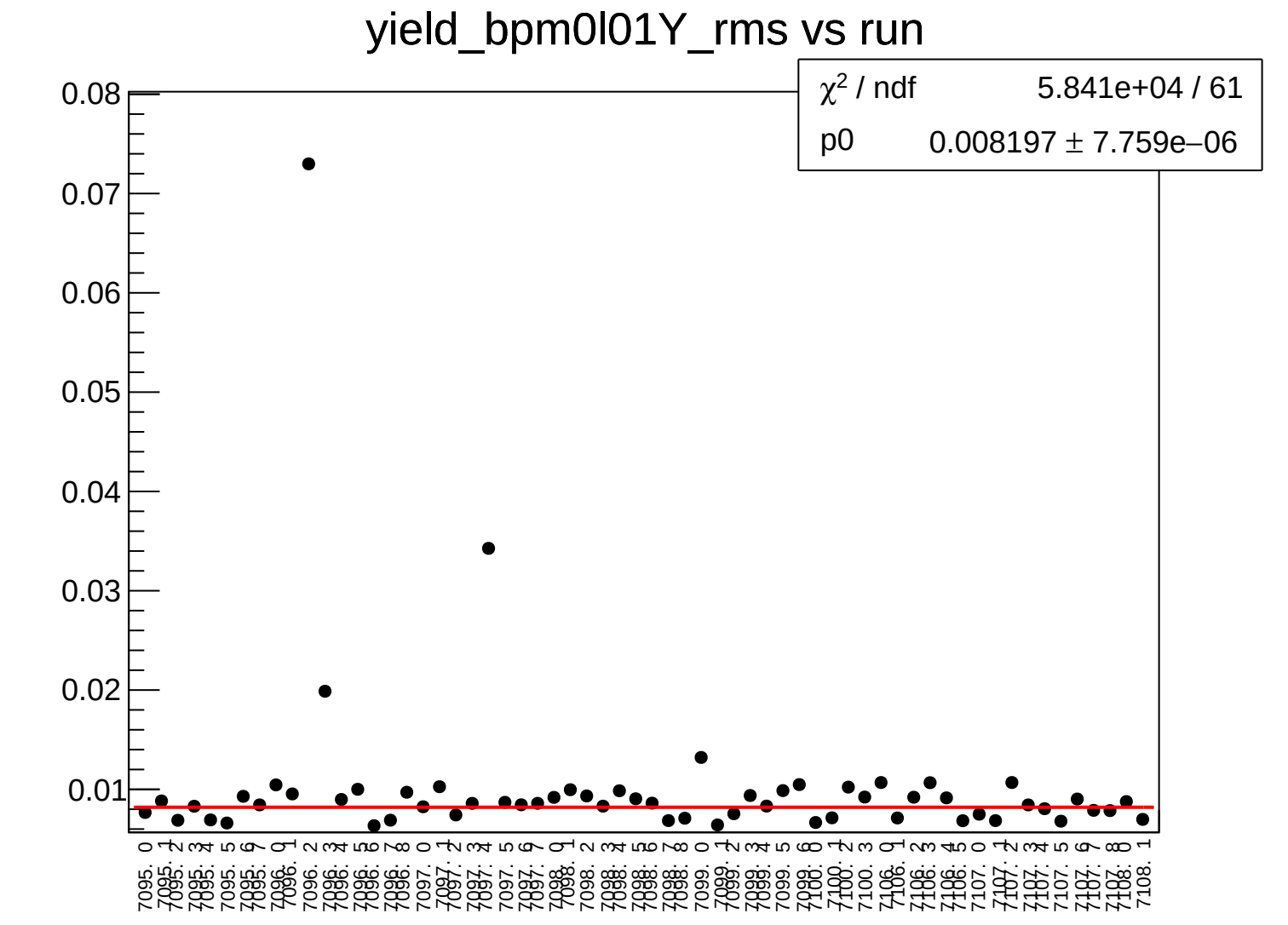

yield_bpm0l01X_mean vs run
χ² / ndf 3.704e+07 / 61
p0 −1.386 ± 8.894e−06
pull
Entries 62
Mean −390.3
Std Dev 425.6

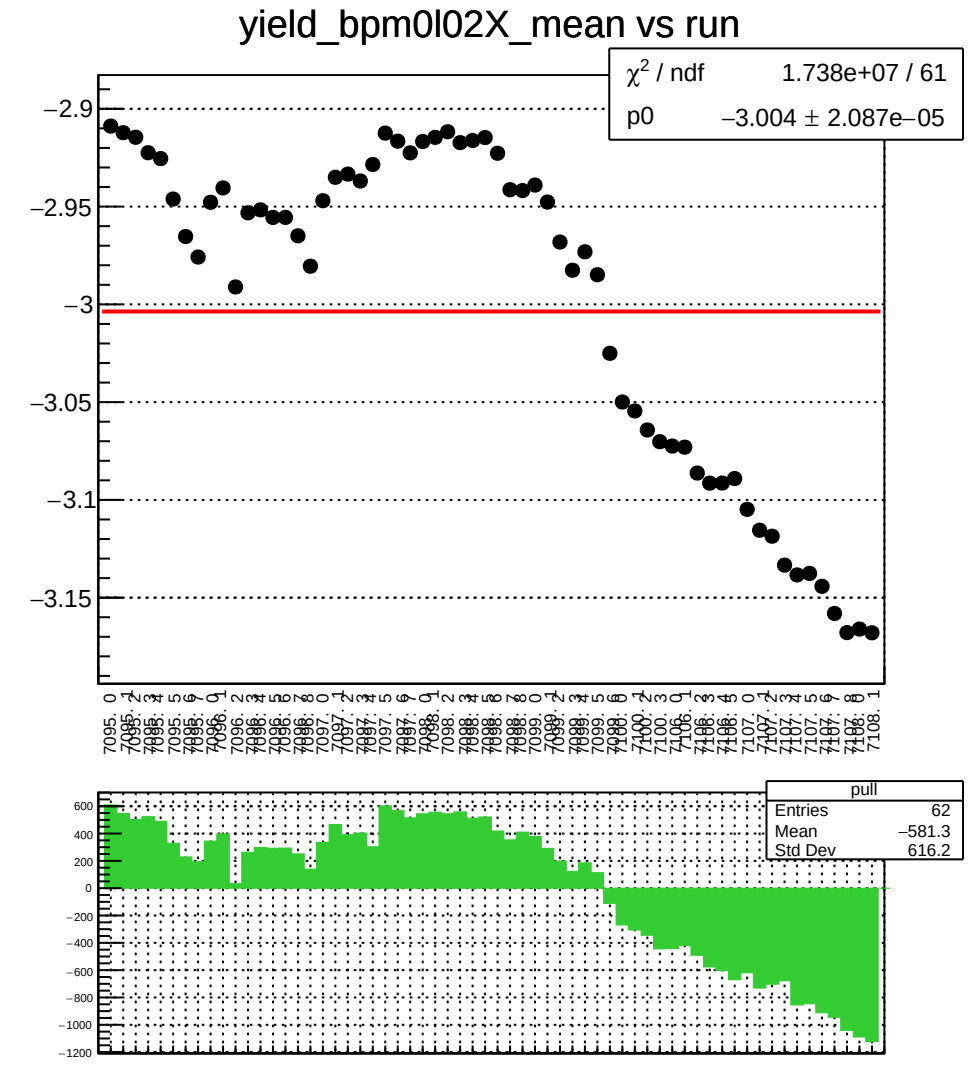

pull1D
Entries 62
Mean 0
Std Dev 0

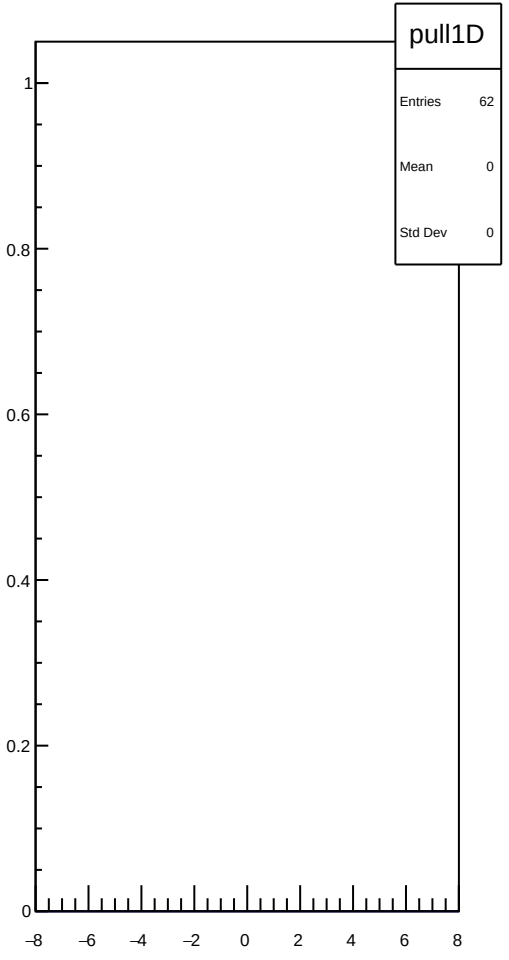

yield_bpm0l01X_rms vs run
χ² / ndf 3.359e+04 / 61
p0 0.006718 ± 6.289e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

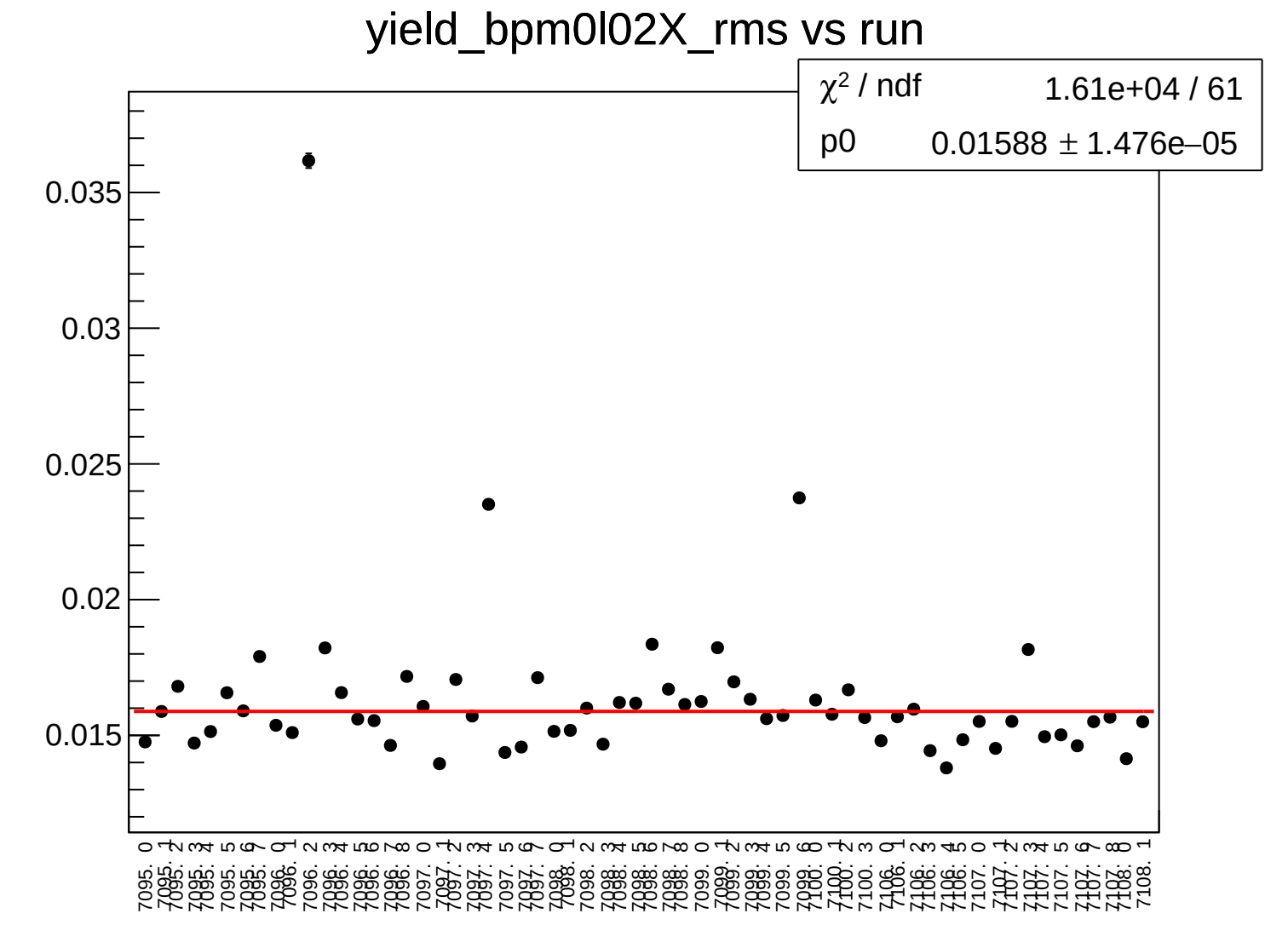

yield_bpm0l01Y_mean vs run
χ² / ndf 2.033e+07 / 61
p0 −5.541 ± 1.097e−05
pull
Entries 62
Mean 1337
Std Dev 1303

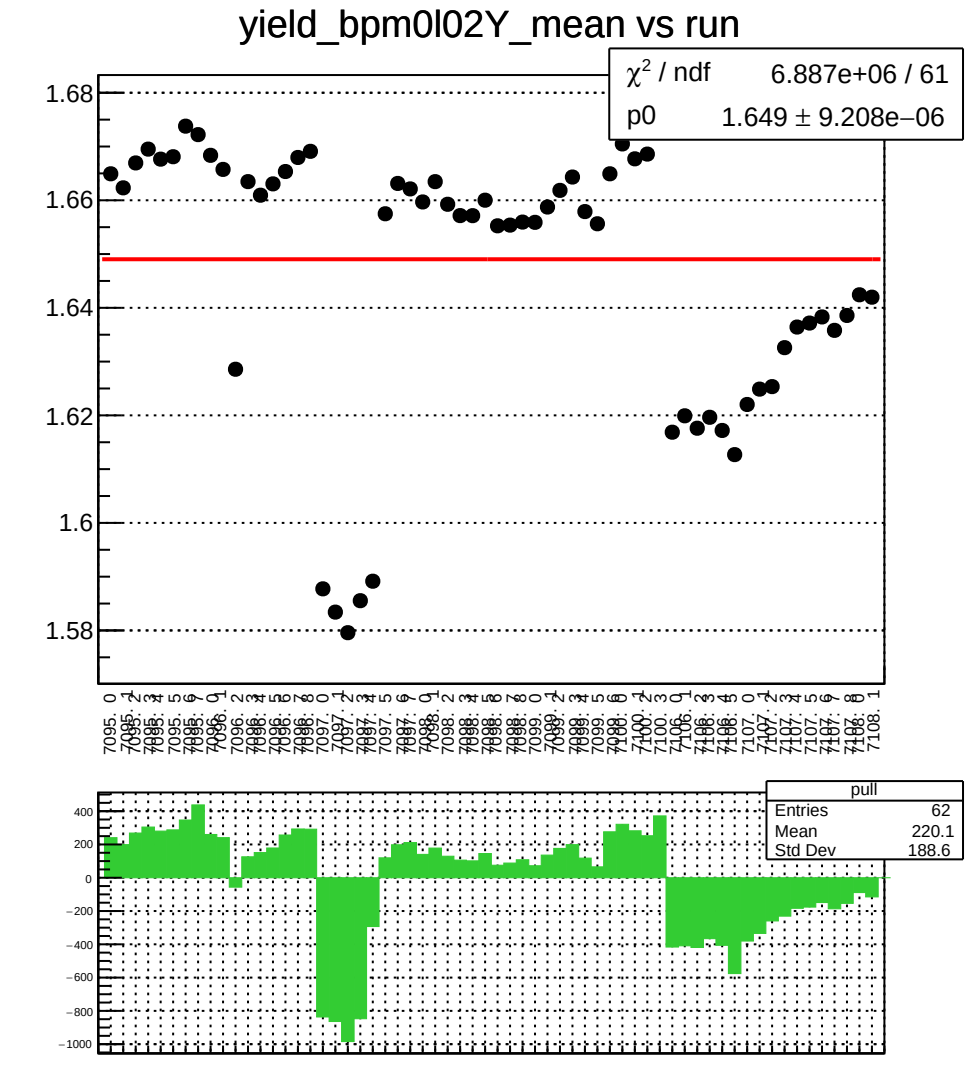

pull1D
Entries 62
Mean 0
Std Dev 0

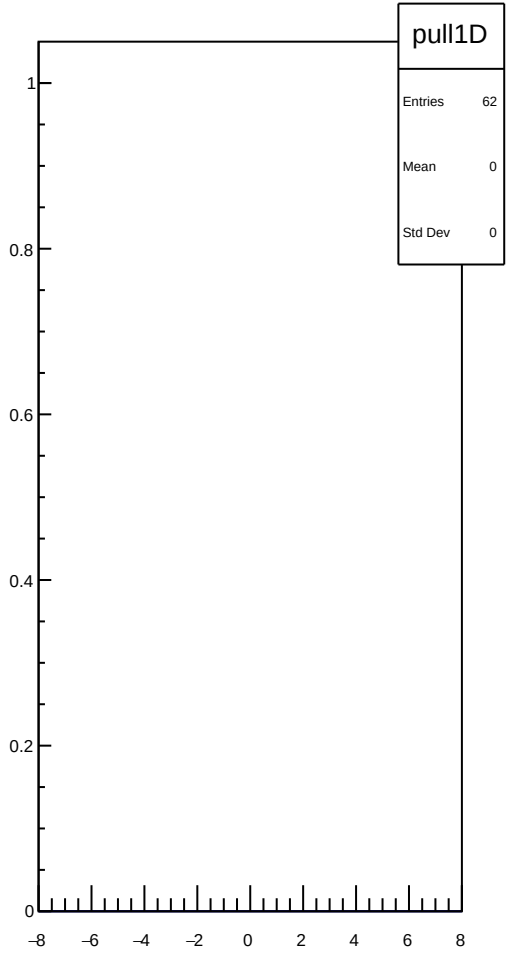

yield_bpm0l01Y_rms vs run
χ² / ndf 5.841e+04 / 61
p0 0.008197 ± 7.759e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

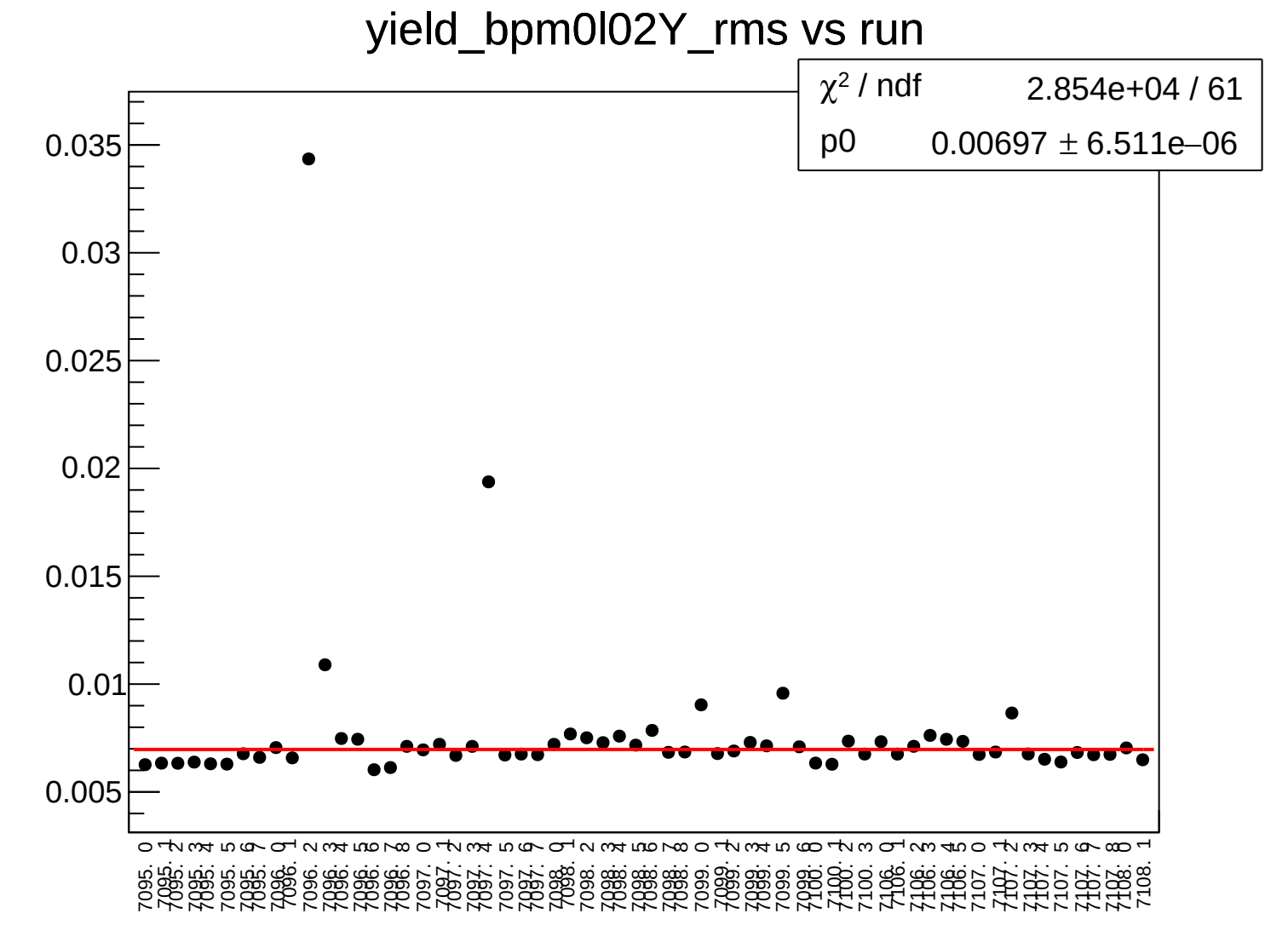

yield_bpm0l02X_mean vs run
χ² / ndf 1.738e+07 / 61
p0 −3.004 ± 2.087e−05
−2.9
−2.95
−3
−3.05
−3.1
−3.15
pull
Entries 62
Mean −581.3
Std Dev 616.2
600
400
200
0
−200
−400
−600
−800
−1000
−1200

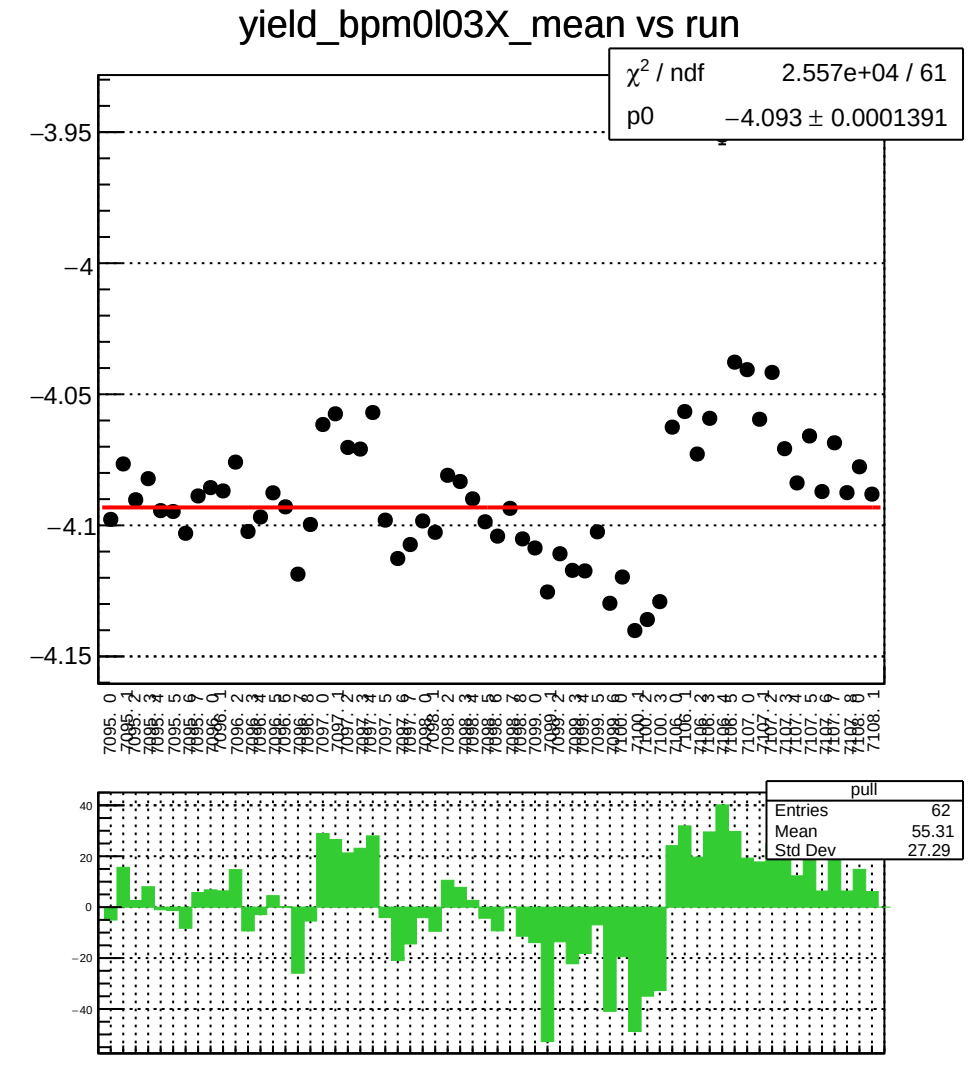

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

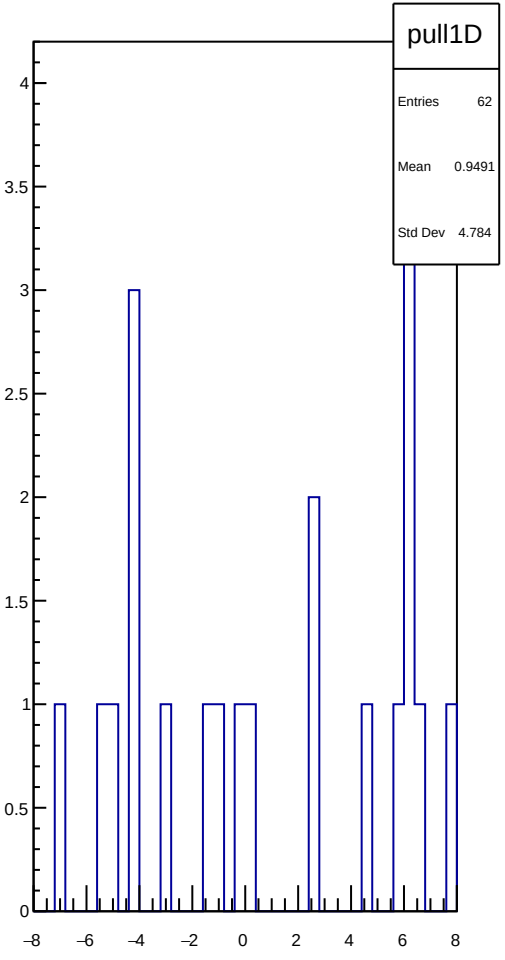

yield_bpm0l02X_rms vs run
χ² / ndf 1.61e+04 / 61
p0 0.01588 ± 1.476e−05
0.035
0.03
0.025
0.02
0.015

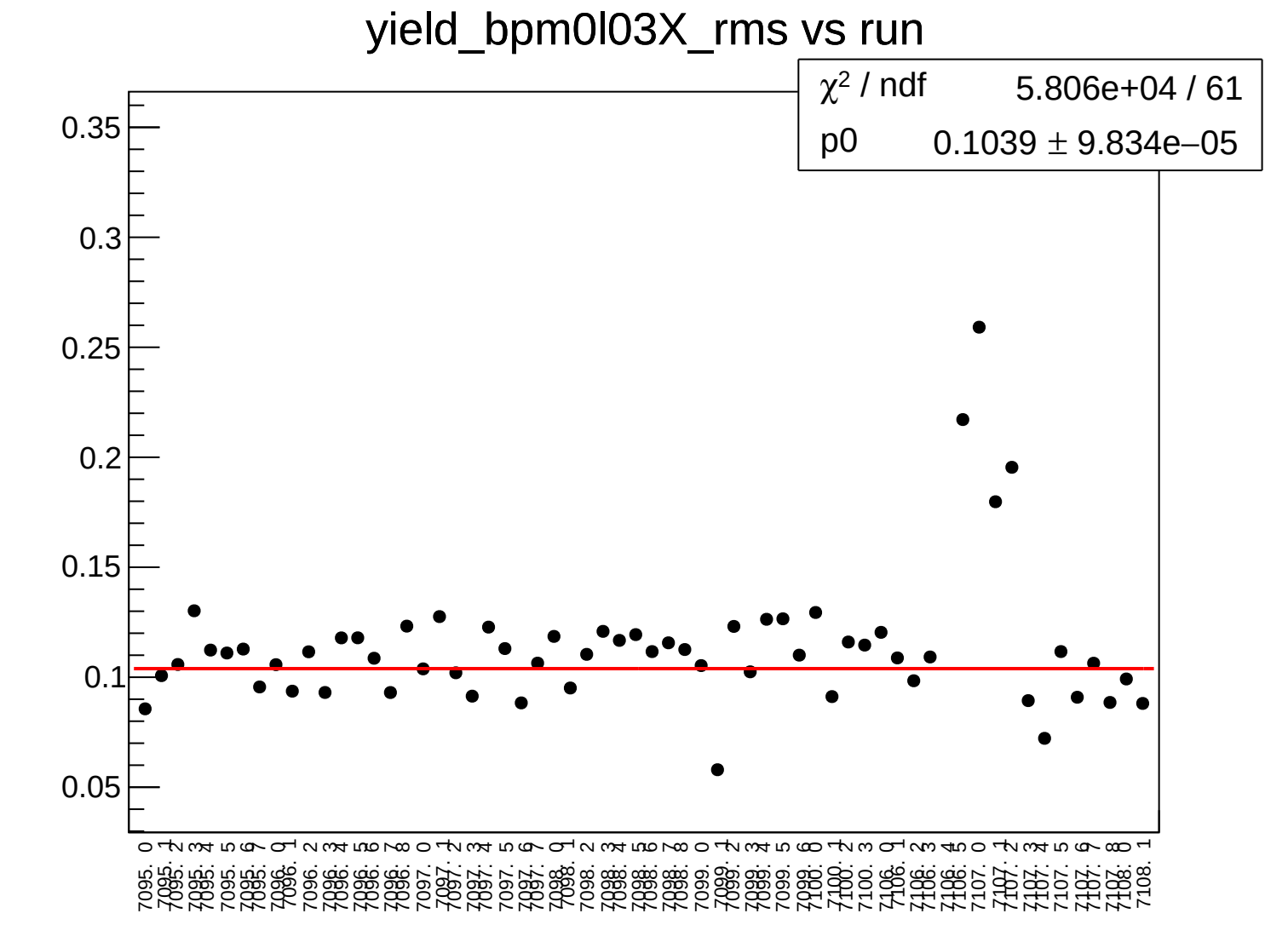

yield_bpm0l02Y_mean vs run
χ² / ndf 6.887e+06 / 61
p0 1.649 ± 9.208e−06
1.68
1.66
1.64
1.62
1.6
1.58
pull
Entries 62
Mean 220.1
Std Dev 188.6
400
200
0
−200
−400
−600
−800
−1000

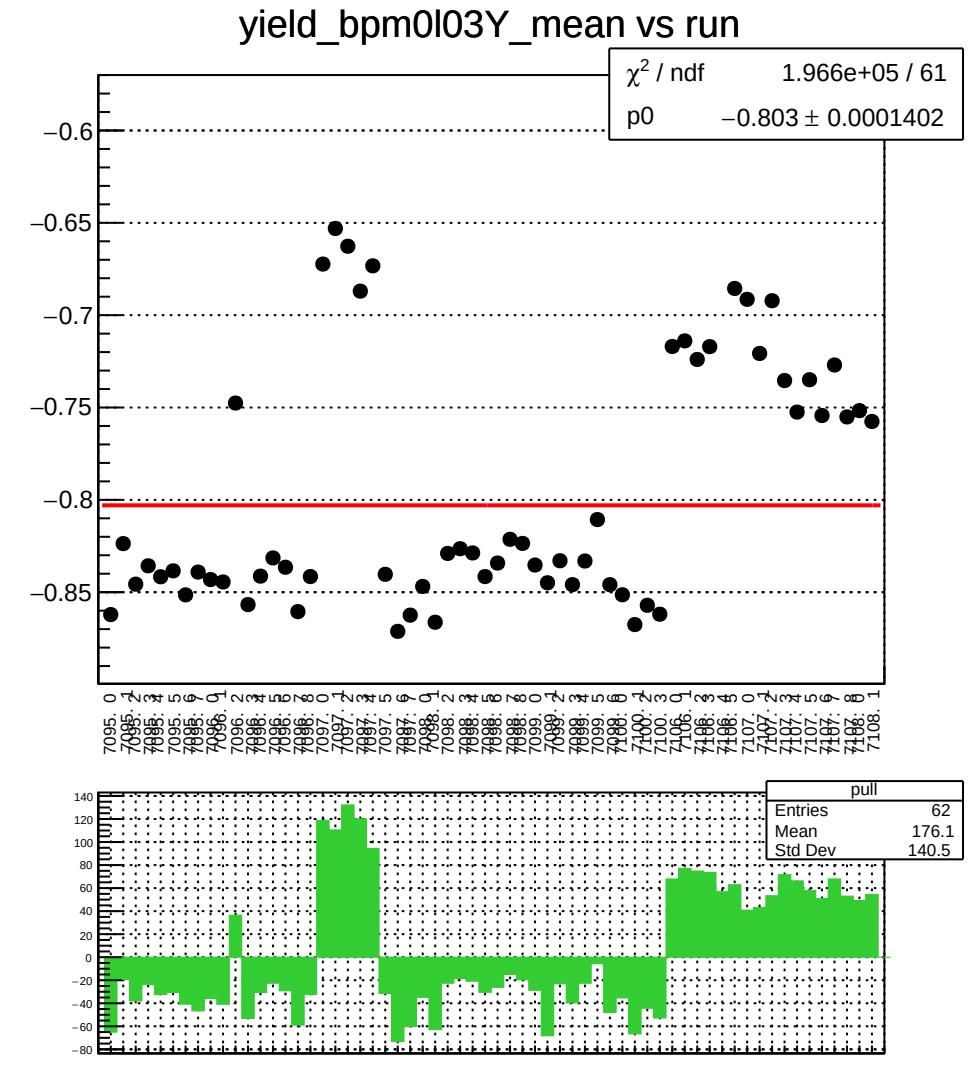

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

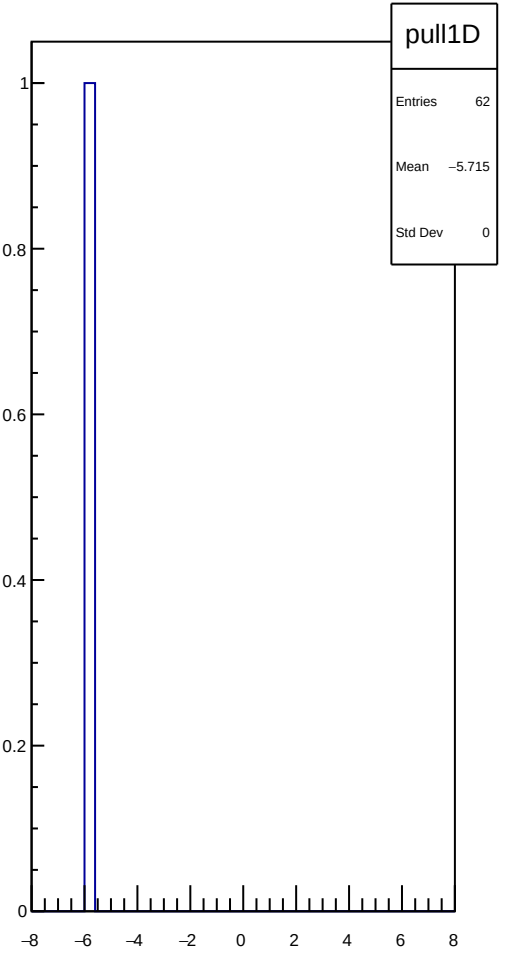

yield_bpm0l02Y_rms vs run
χ² / ndf 2.854e+04 / 61
p0 0.00697 ± 6.511e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

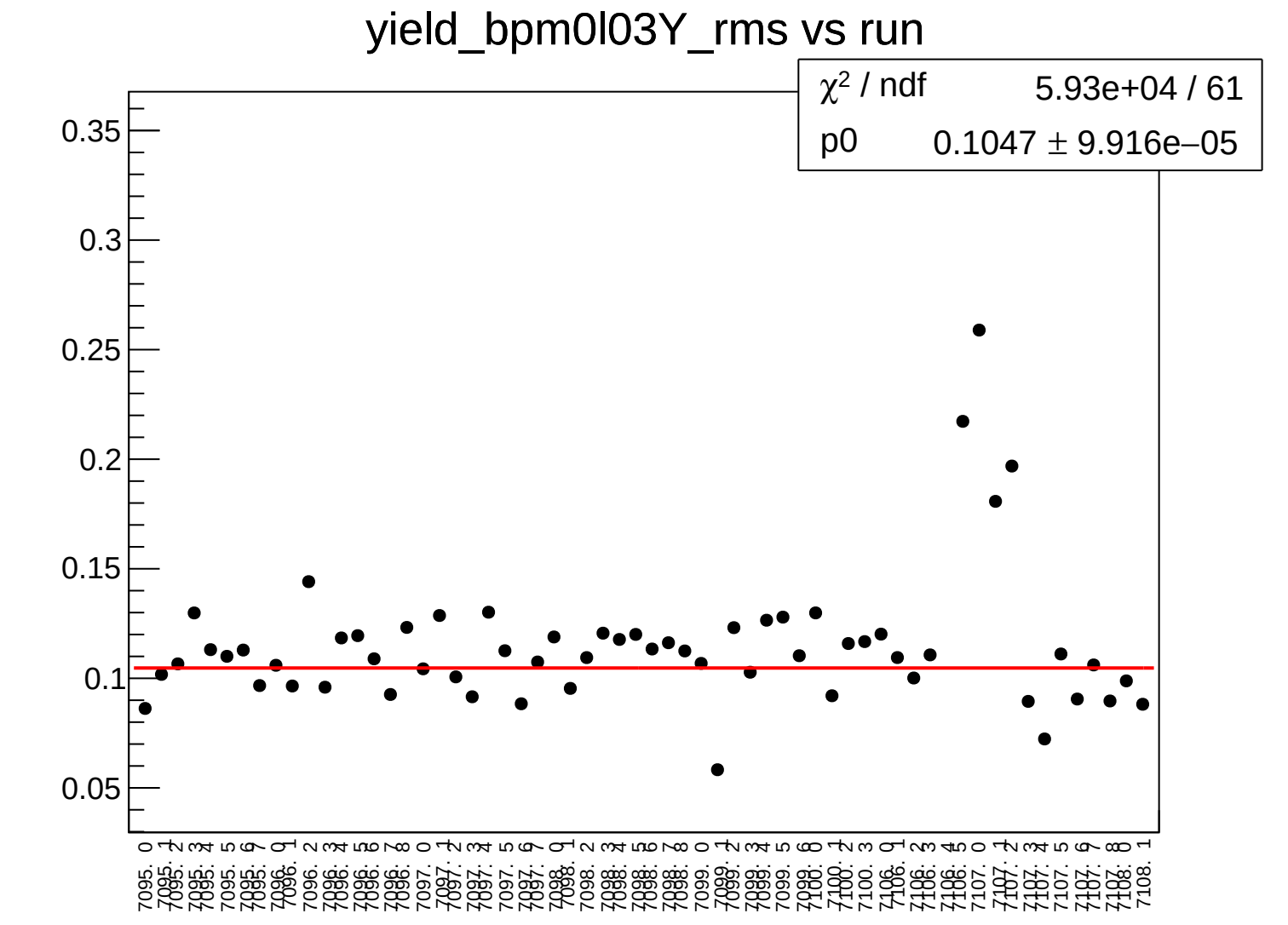

yield_bpm0l03X_mean vs run
χ² / ndf 2.557e+04 / 61
p0 −4.093 ± 0.0001391
−3.95
−4
−4.05
−4.1
−4.15
pull
Entries 62
Mean 55.31
Std Dev 27.29
40
20
0
−20
−40

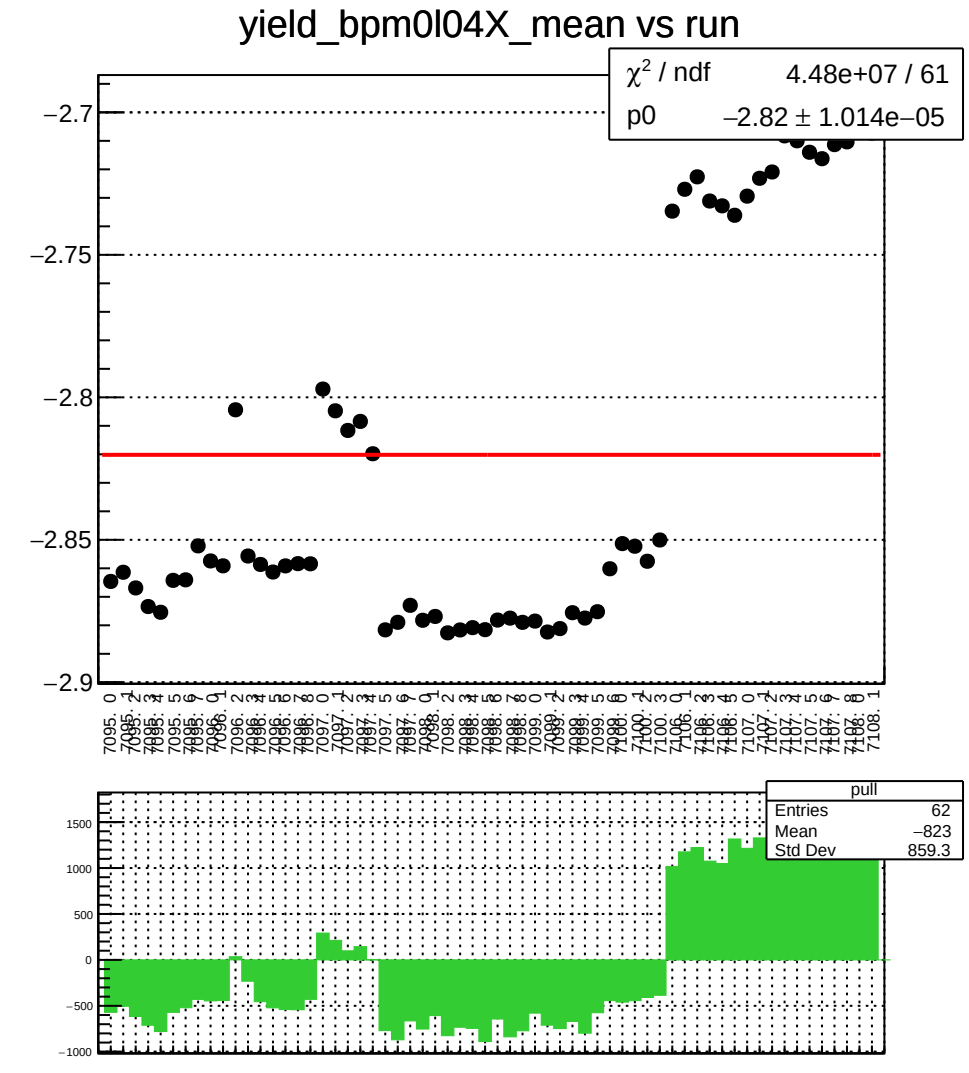

pull1D
Entries 62
Mean 0.9491
Std Dev 4.784
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

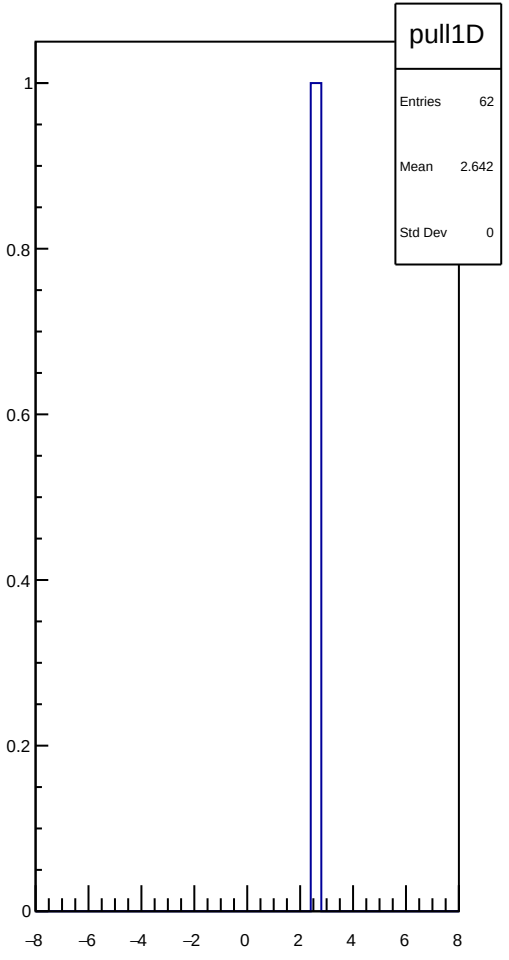

yield_bpm0l03X_rms vs run
χ² / ndf 5.806e+04 / 61
p0 0.1039 ± 9.834e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

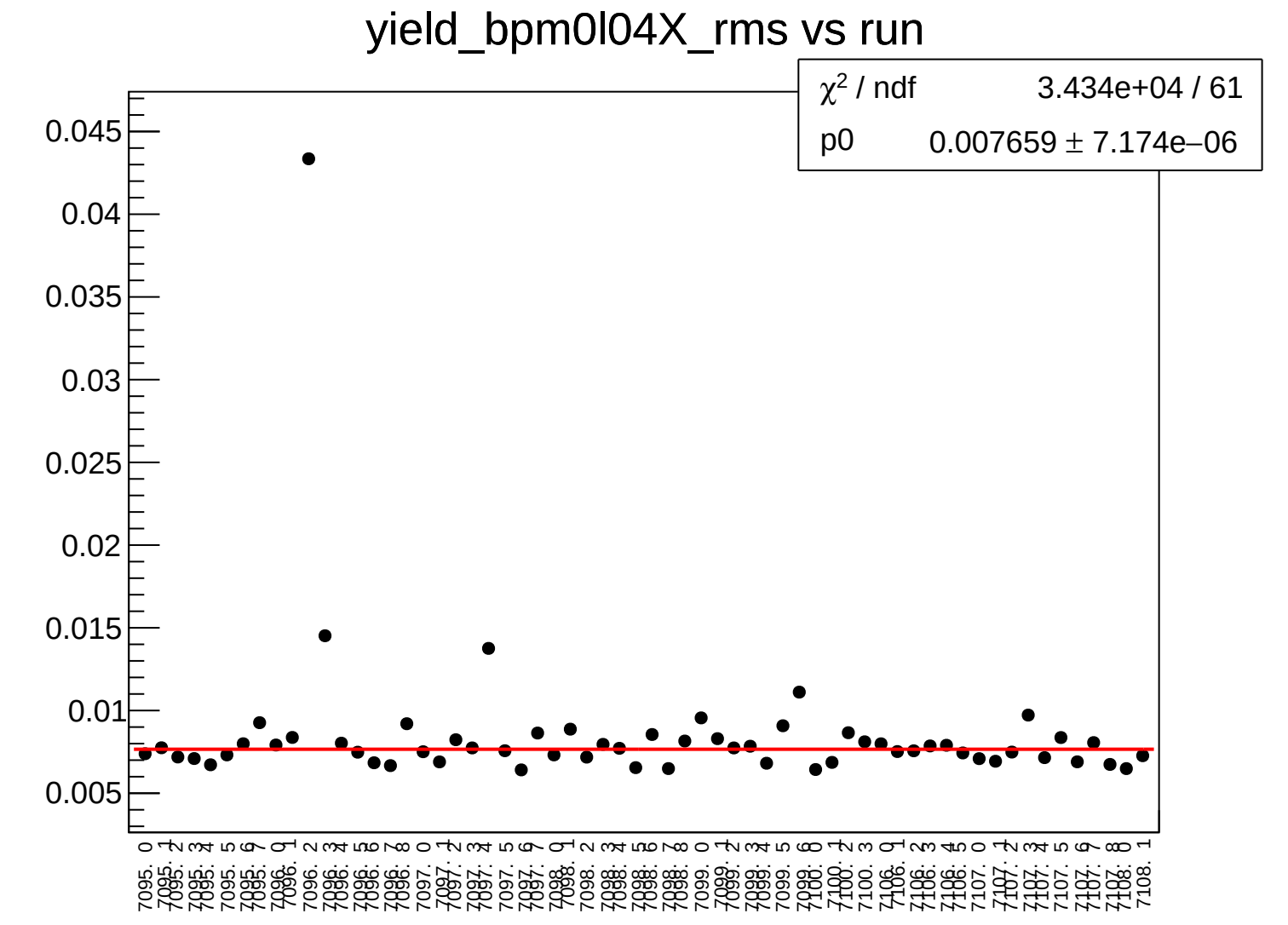

yield_bpm0l03Y_mean vs run
χ² / ndf 1.966e+05 / 61
p0 −0.803 ± 0.0001402
−0.6
−0.65
−0.7
−0.75
−0.8
−0.85
pull
Entries 62
Mean 176.1
Std Dev 140.5
140
120
100
80
60
40
20
0
−20
−40
−60
−80

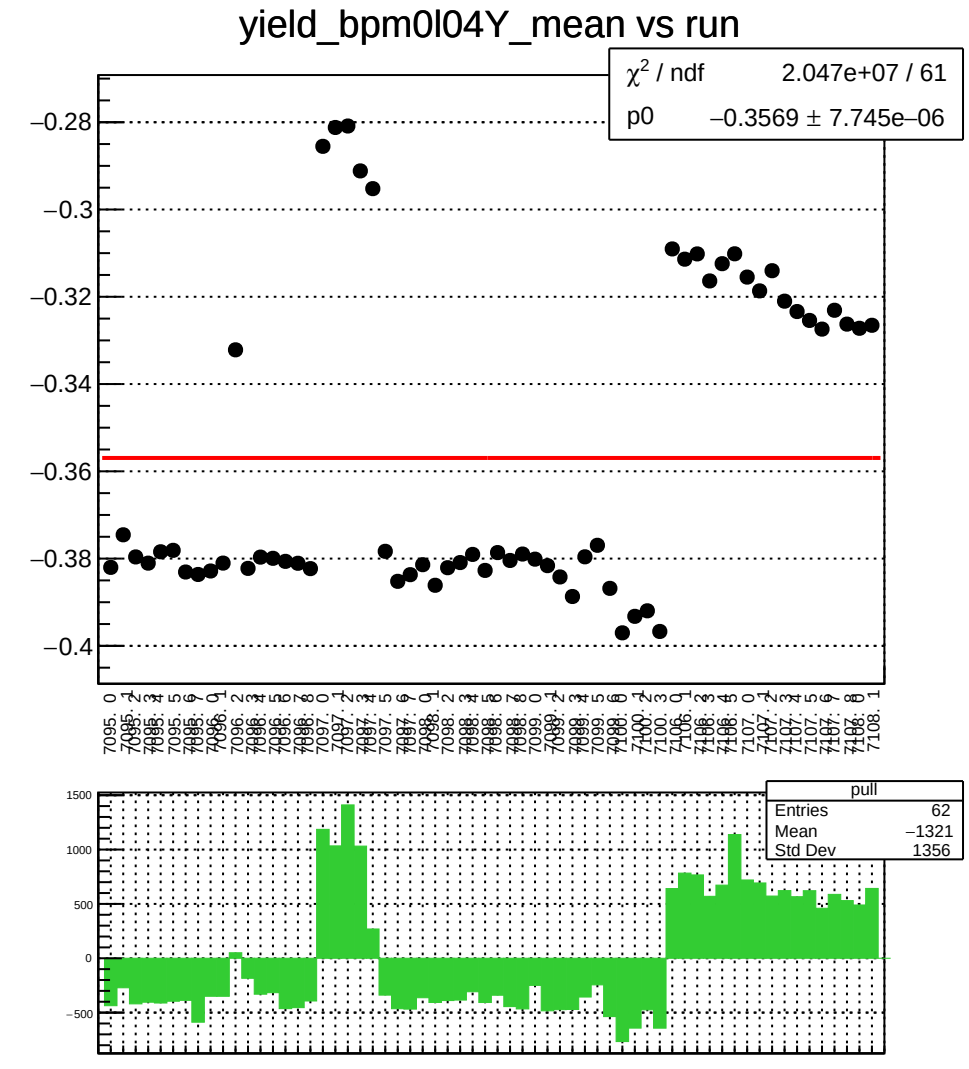

pull1D
Entries 62
Mean −5.715
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

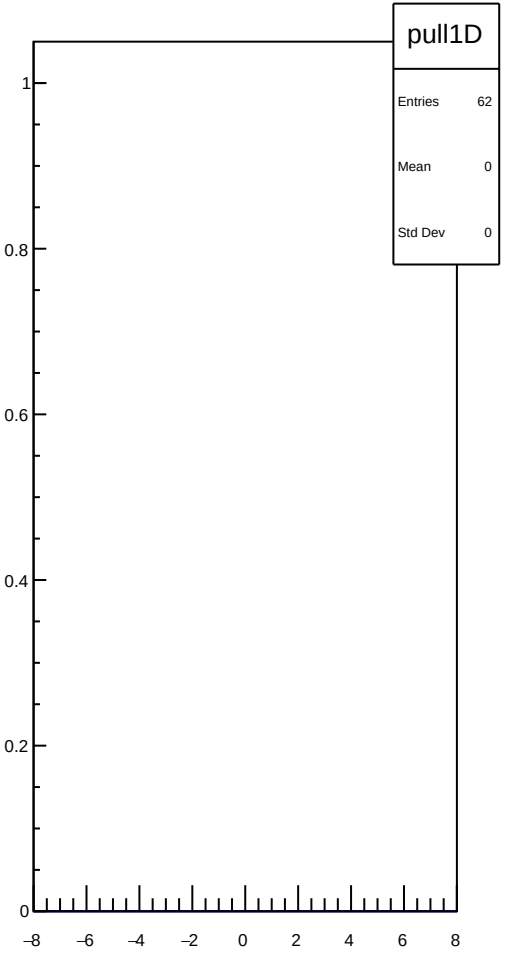

yield_bpm0l03Y_rms vs run
χ² / ndf 5.93e+04 / 61
p0 0.1047 ± 9.916e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

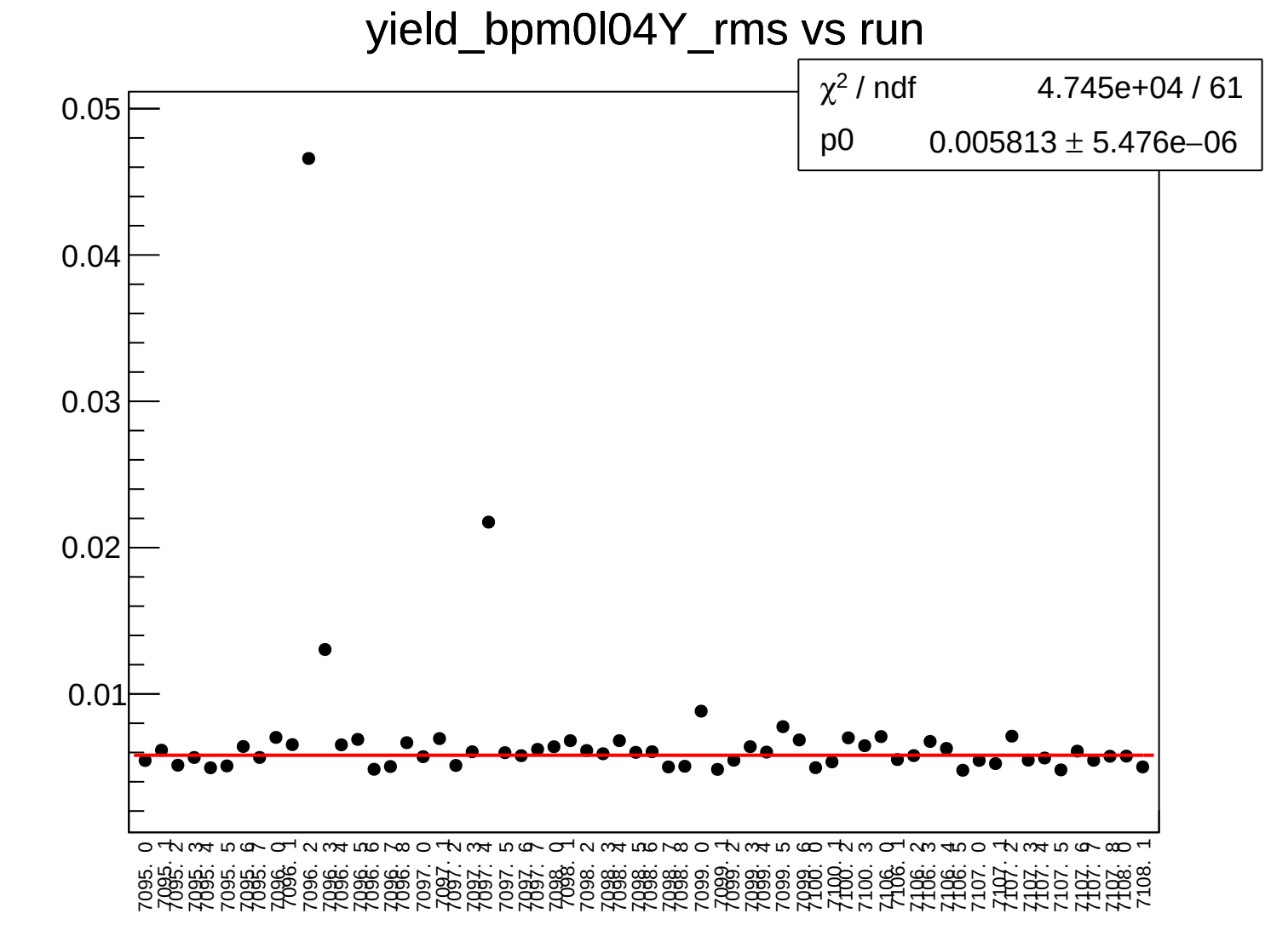

yield_bpm0l04X_mean vs run
χ² / ndf 4.48e+07 / 61
p0 −2.82 ± 1.014e−05
−2.7
−2.75
−2.8
−2.85
−2.9
pull
Entries 62
Mean −823
Std Dev 859.3
1500
1000
500
0
−500
−1000

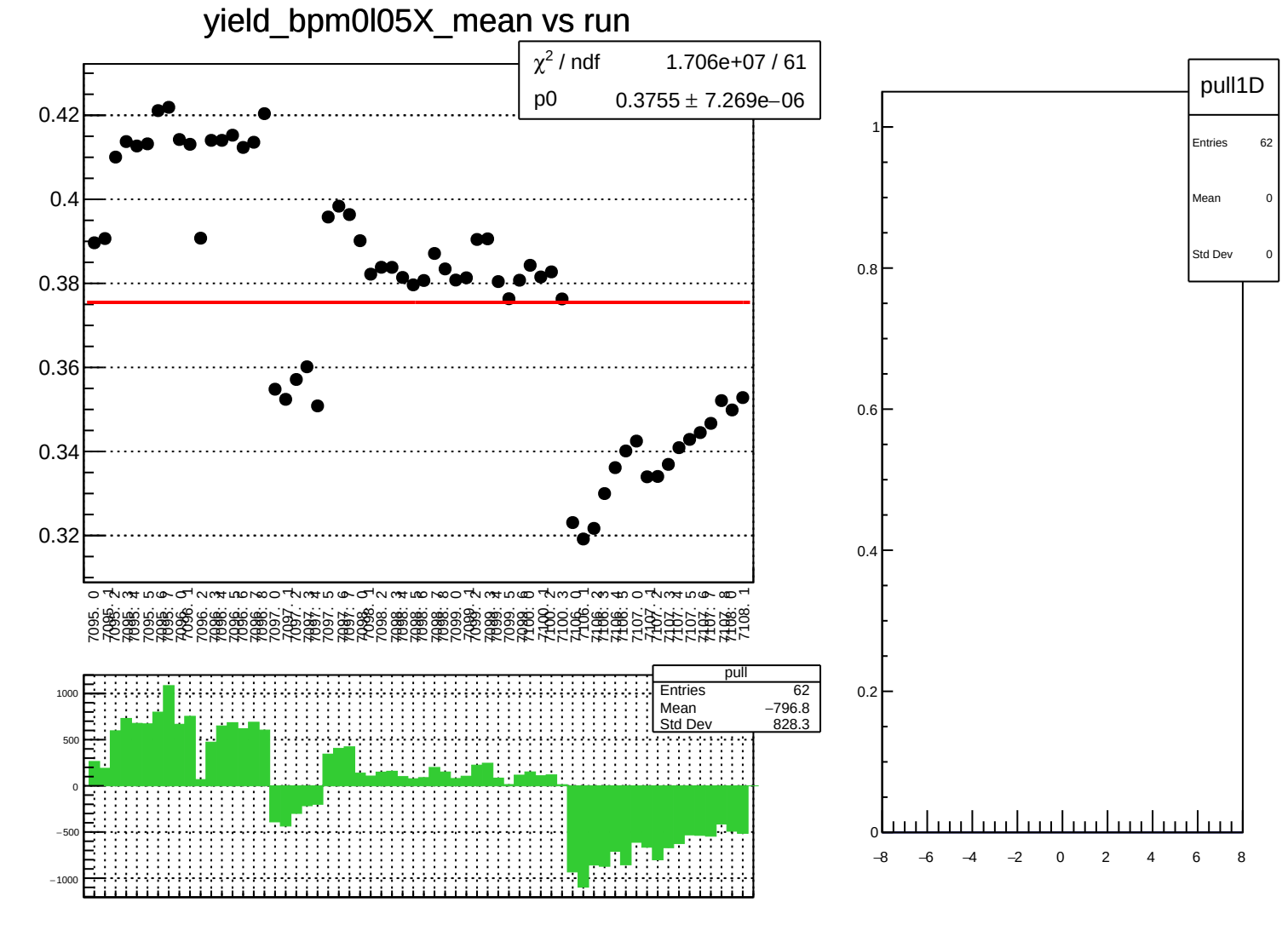

pull1D
Entries 62
Mean 2.642
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

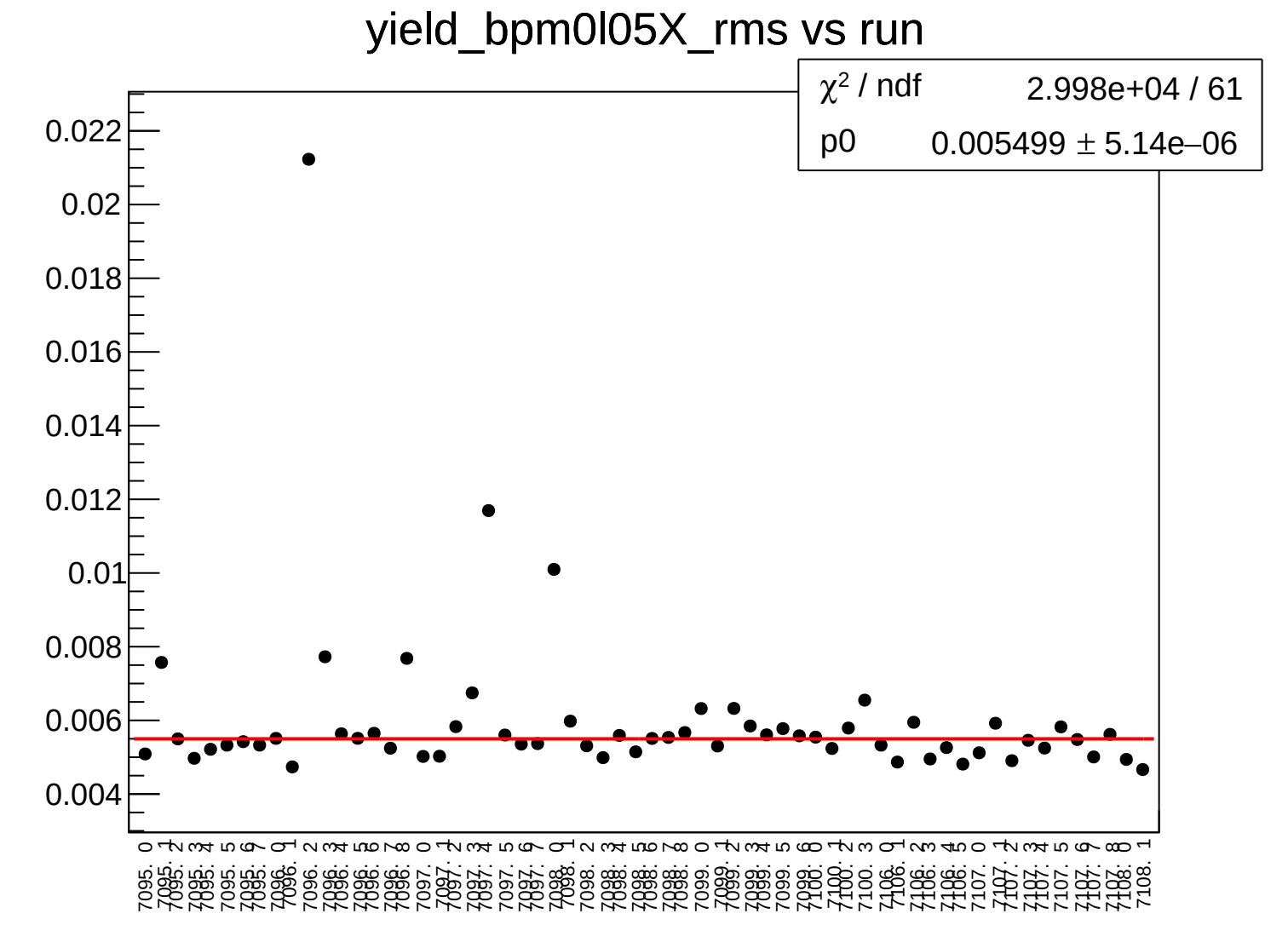

yield_bpm0l04X_rms vs run
χ² / ndf 3.434e+04 / 61
p0 0.007659 ± 7.174e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

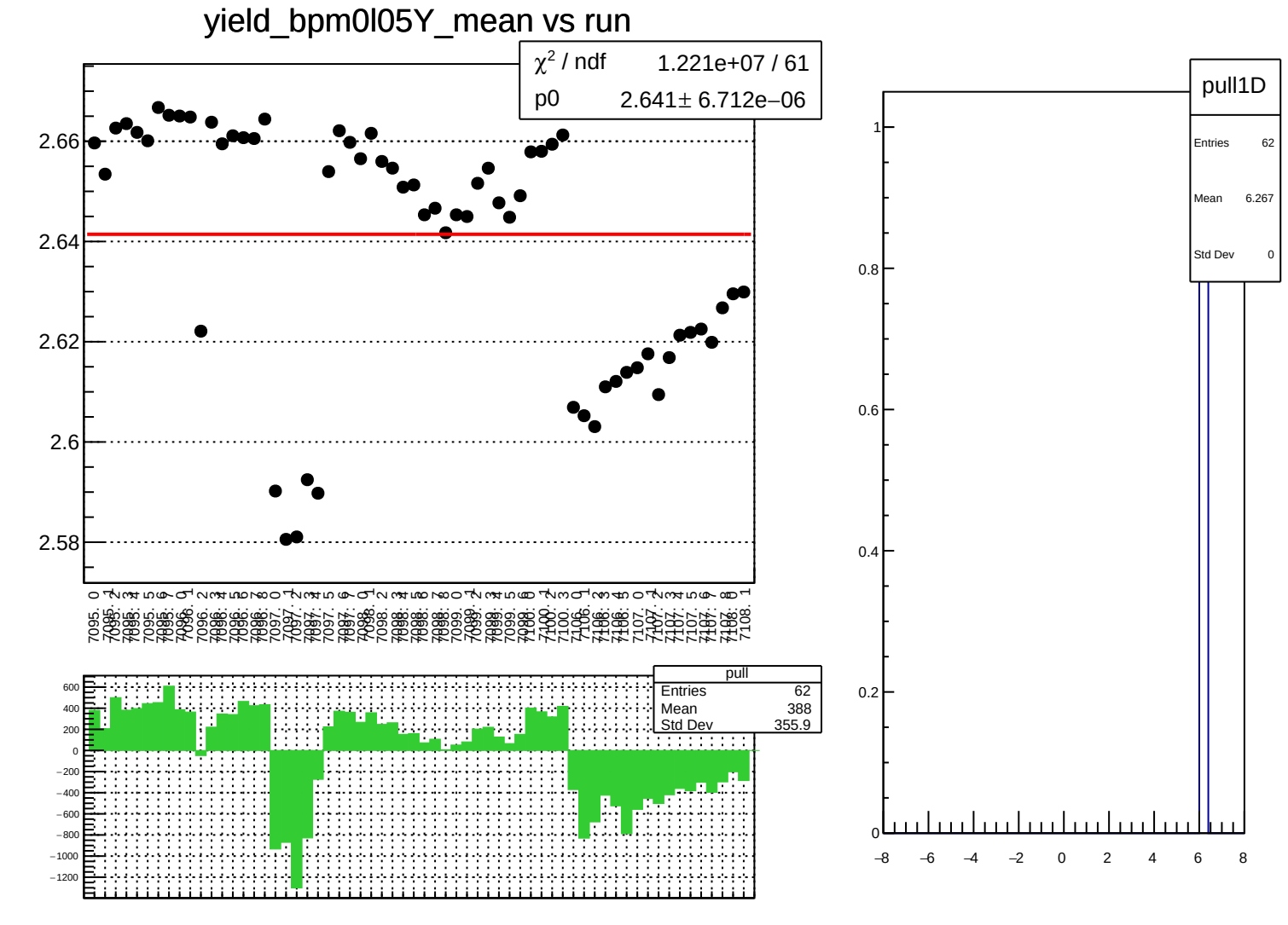

yield_bpm0l04Y_mean vs run
χ² / ndf 2.047e+07 / 61
p0 −0.3569 ± 7.745e−06
−0.28
−0.3
−0.32
−0.34
−0.36
−0.38
−0.4
pull
Entries 62
Mean −1321
Std Dev 1356
1500
1000
500
0
−500

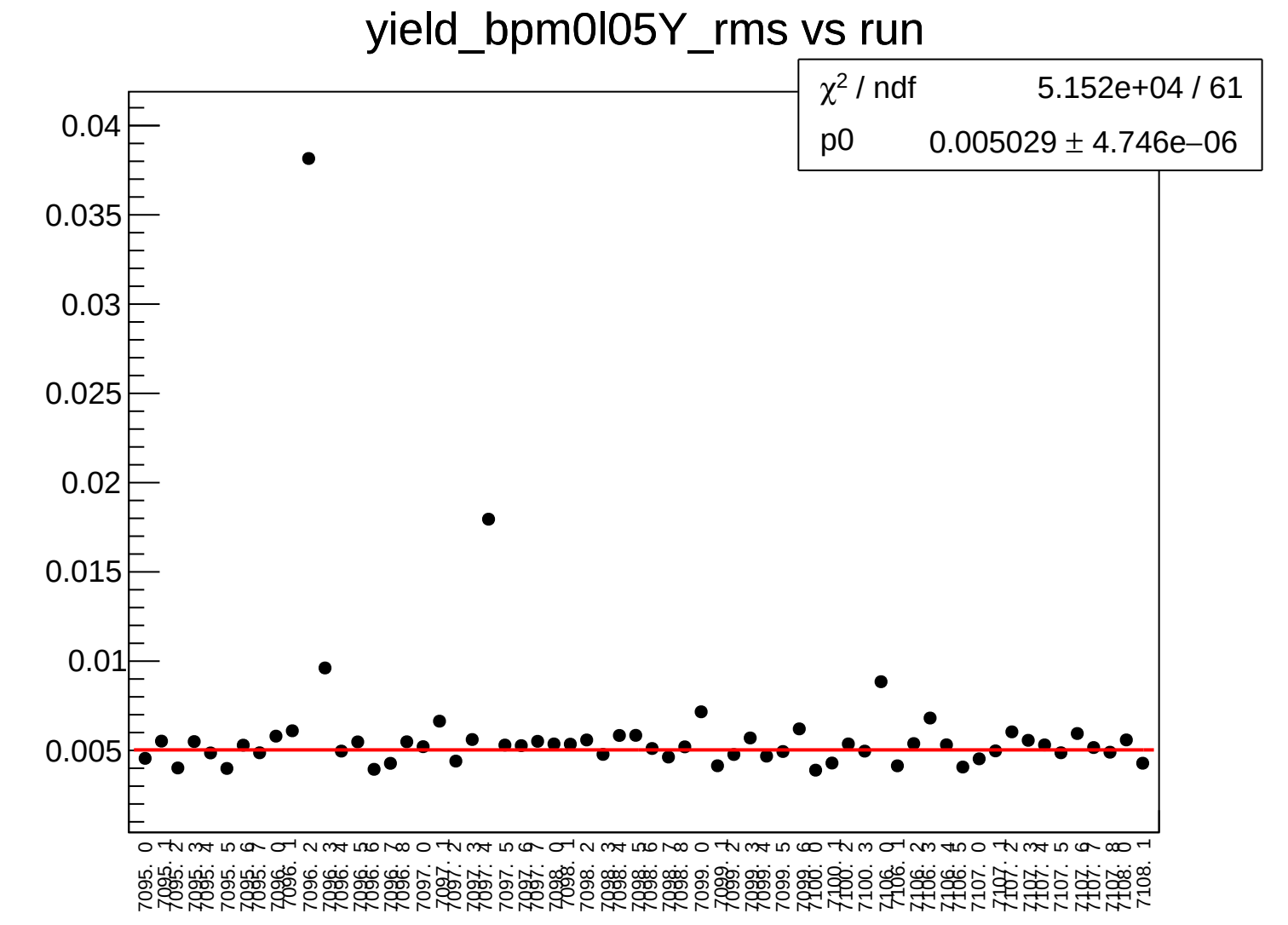

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

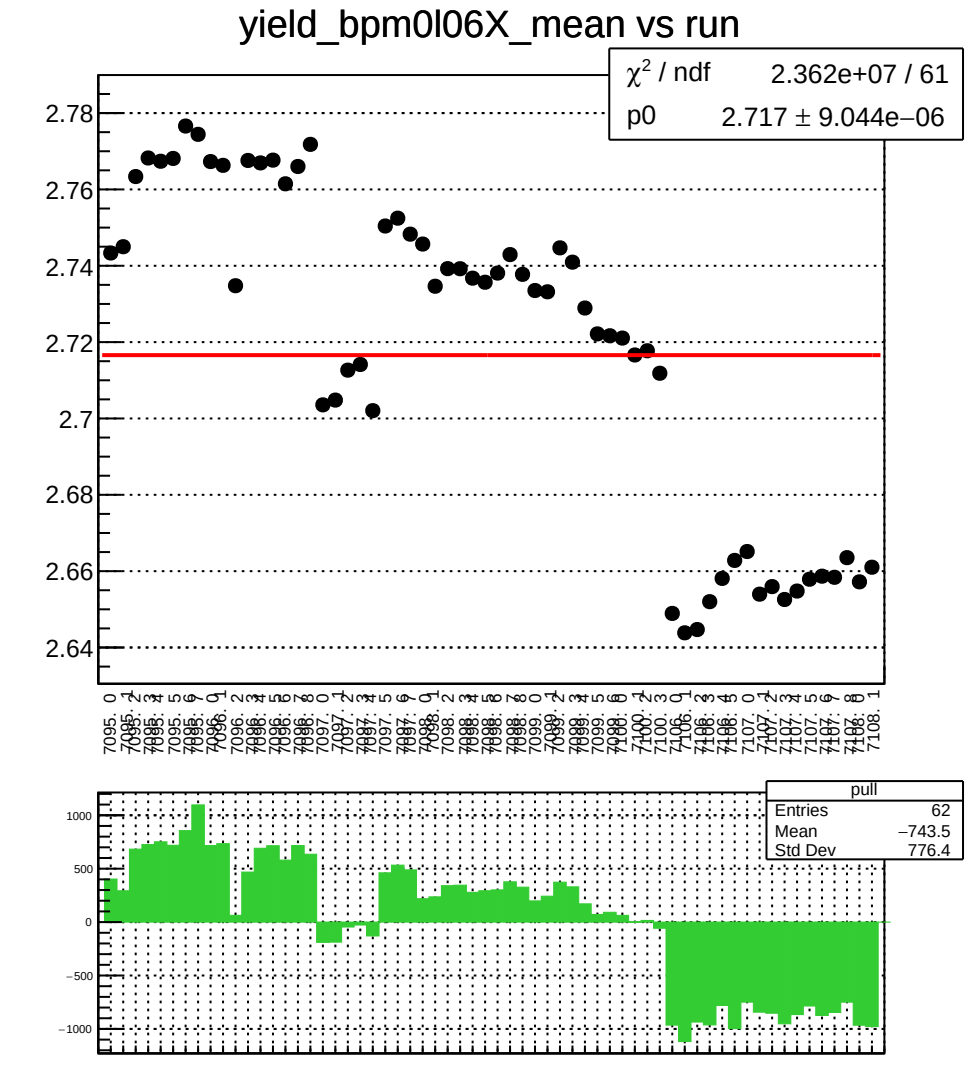

yield_bpm0l04Y_rms vs run
χ² / ndf 4.745e+04 / 61
p0 0.005813 ± 5.476e−06
0.05
0.04
0.03
0.02
0.01

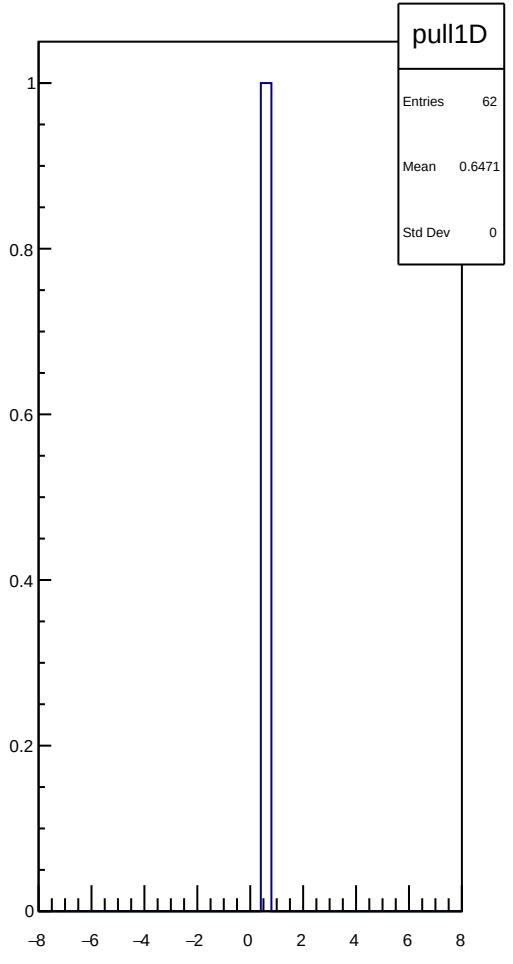

yield_bpm0l05X_mean vs run
χ² / ndf 1.706e+07 / 61
p0 0.3755 ± 7.269e−06
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 62
Mean −796.8
Std Dev 828.3
1000
500
0
−500
−1000
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

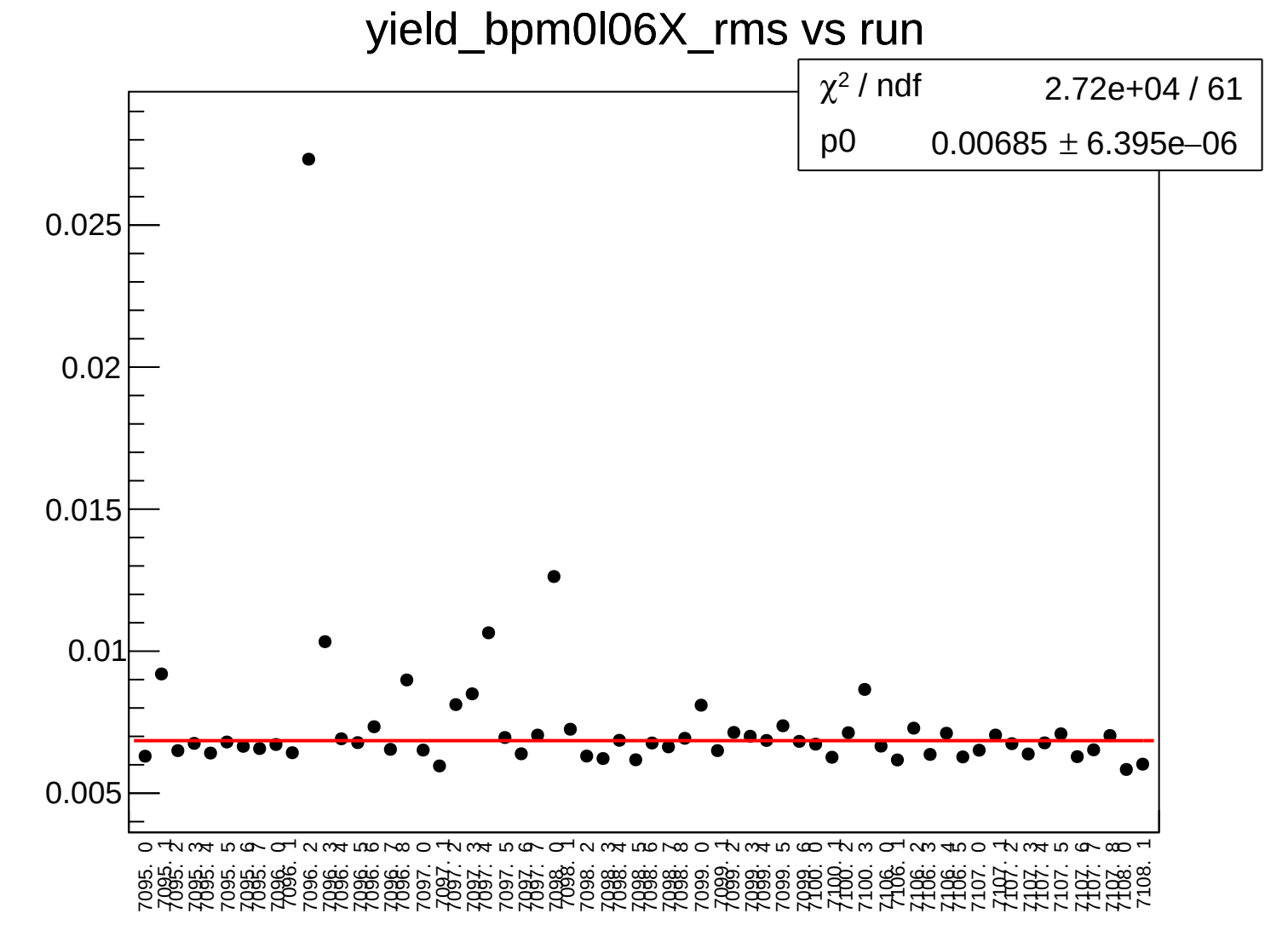

yield_bpm0l05X_rms vs run
χ² / ndf 2.998e+04 / 61
p0 0.005499 ± 5.14e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

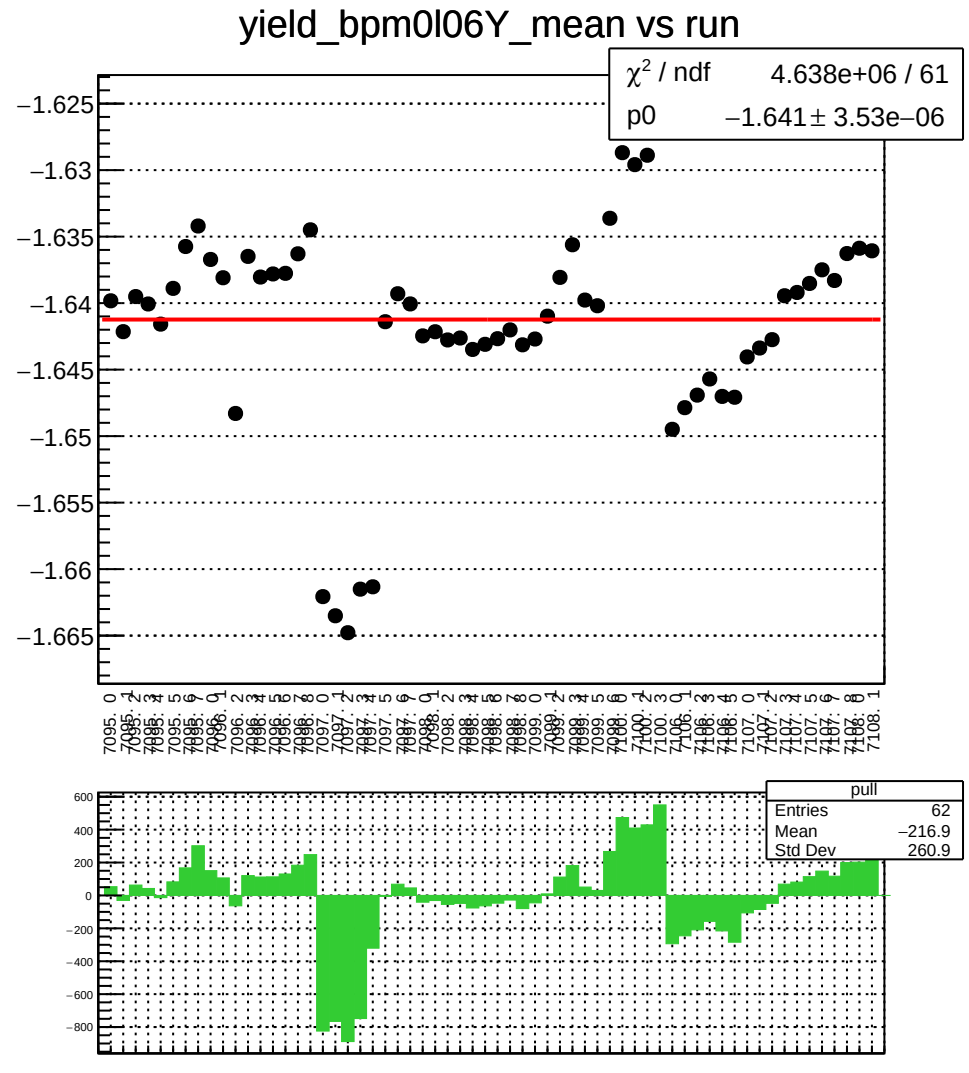

yield_bpm0l05Y_mean vs run
χ² / ndf 1.221e+07 / 61
p0 2.641± 6.712e−06
2.66
2.64
2.62
2.6
2.58
pull
Entries 62
Mean 388
Std Dev 355.9
600
400
200
0
−200
−400
−600
−800
−1000
−1200
pull1D
Entries 62
Mean 6.267
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

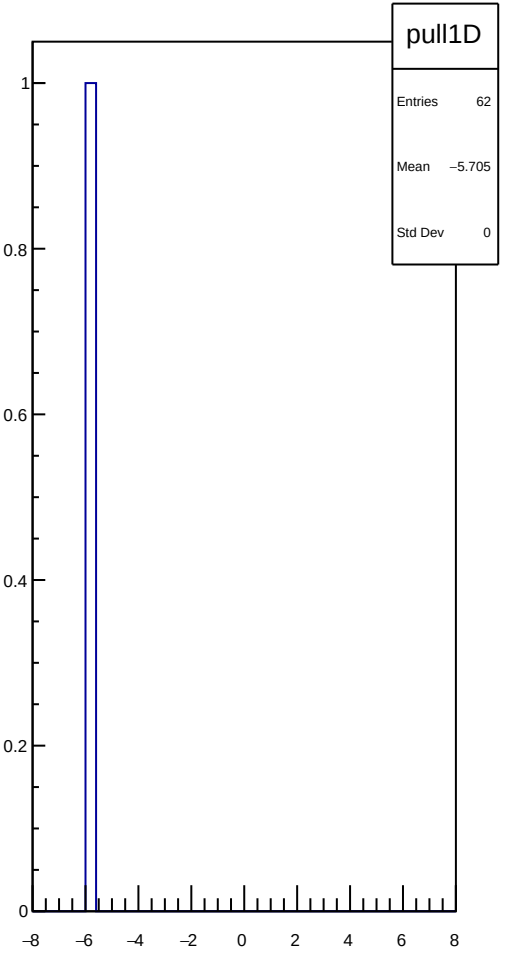

yield_bpm0l05Y_rms vs run
χ² / ndf 5.152e+04 / 61
p0 0.005029 ± 4.746e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

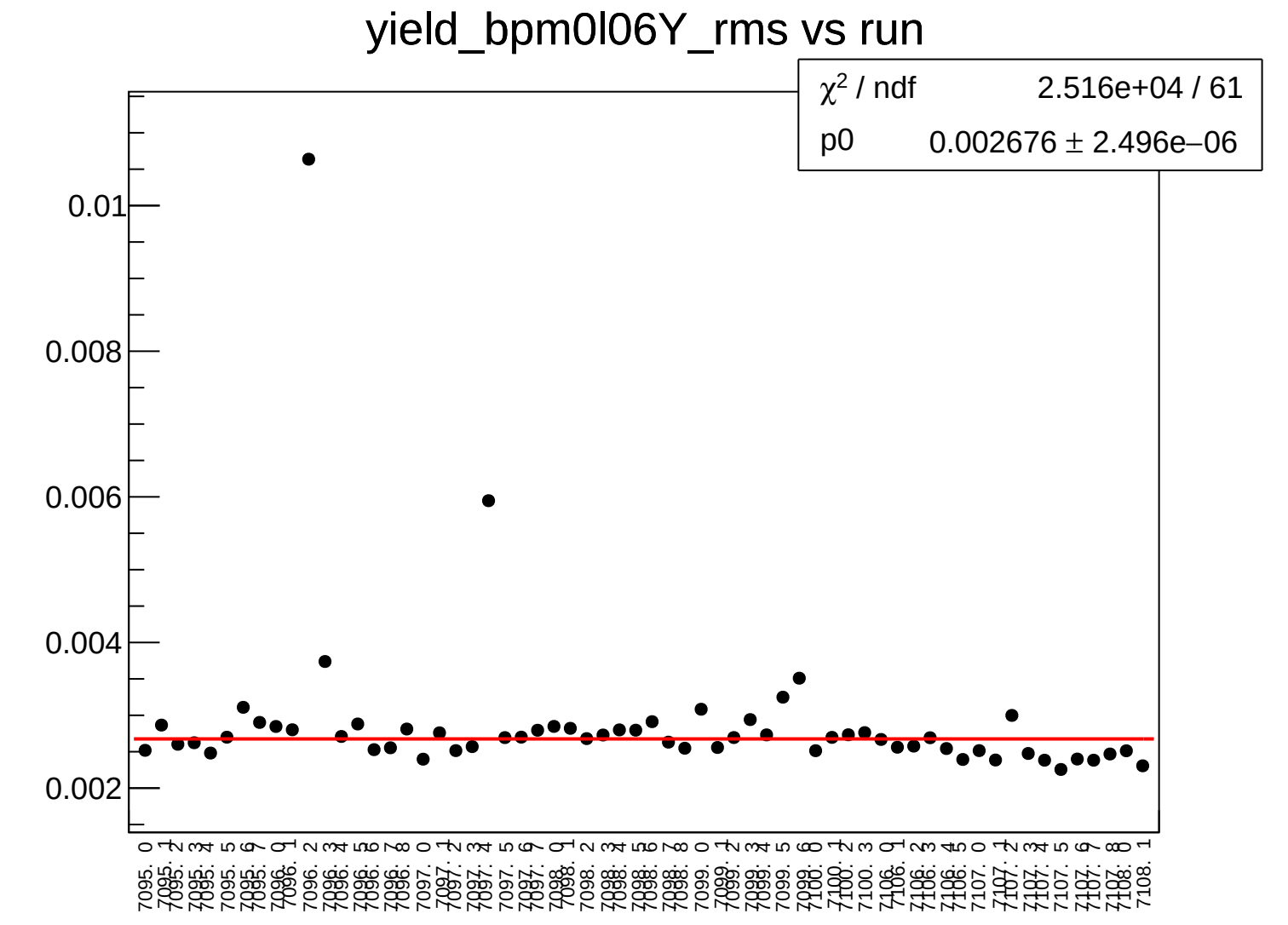

yield_bpm0l06X_mean vs run
χ² / ndf 2.362e+07 / 61
p0 2.717 ± 9.044e−06
pull
Entries 62
Mean −743.5
Std Dev 776.4

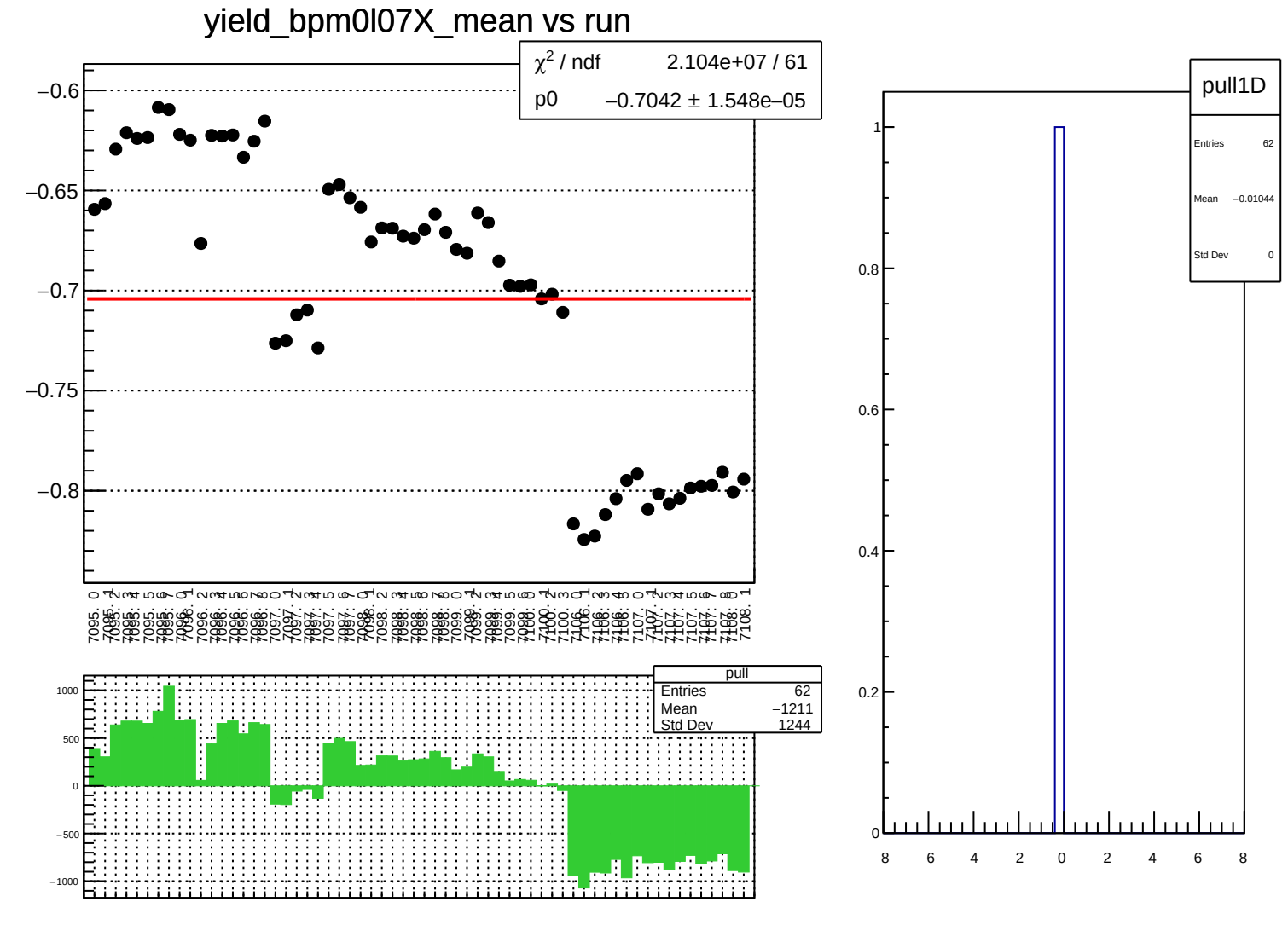

pull1D
Entries 62
Mean 0.6471
Std Dev 0

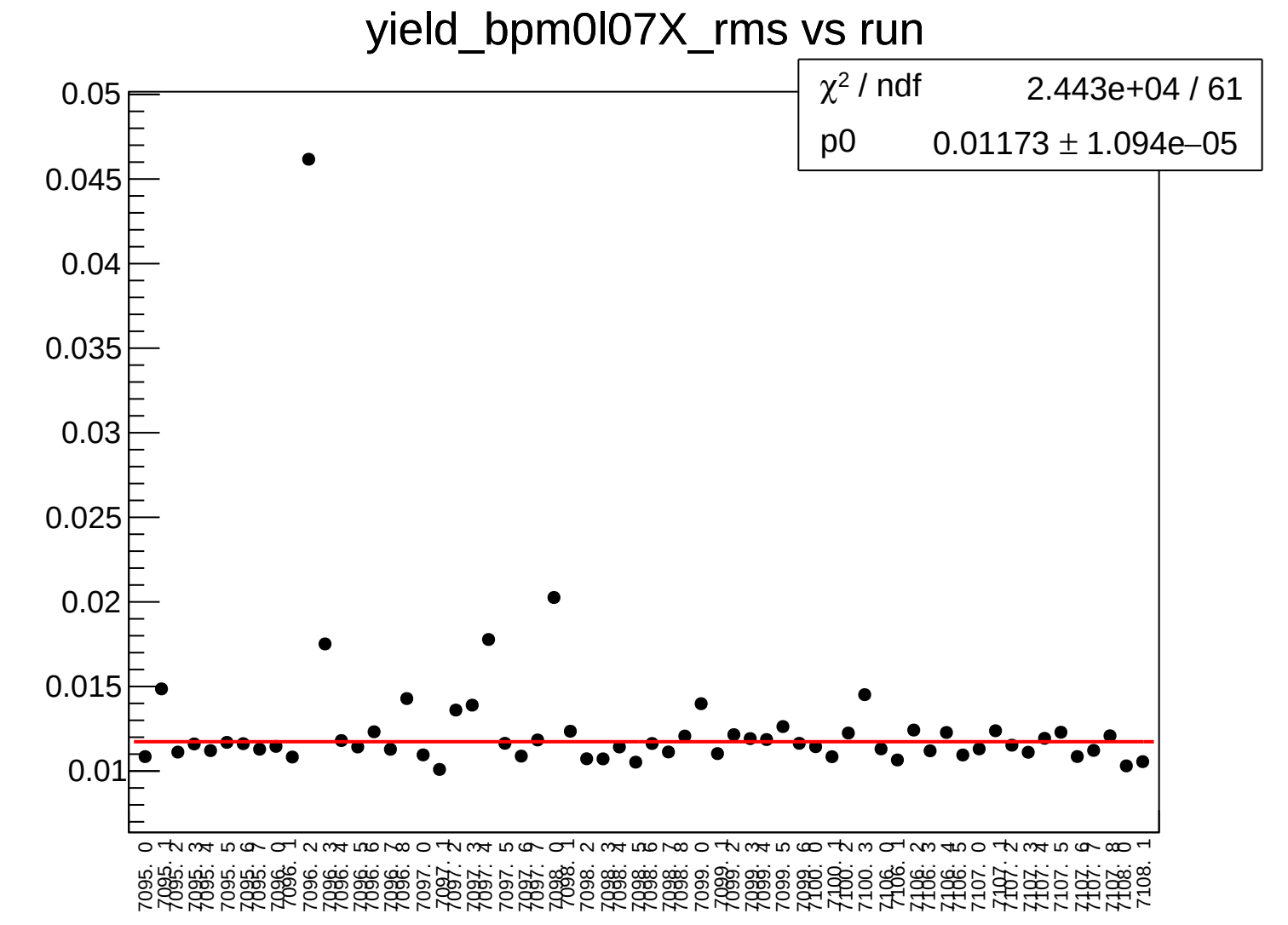

yield_bpm0l06X_rms vs run
χ² / ndf 2.72e+04 / 61
p0 0.00685 ± 6.395e–06
0.025
0.02
0.015
0.01
0.005
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7107. 9
7108. 0
7108. 1

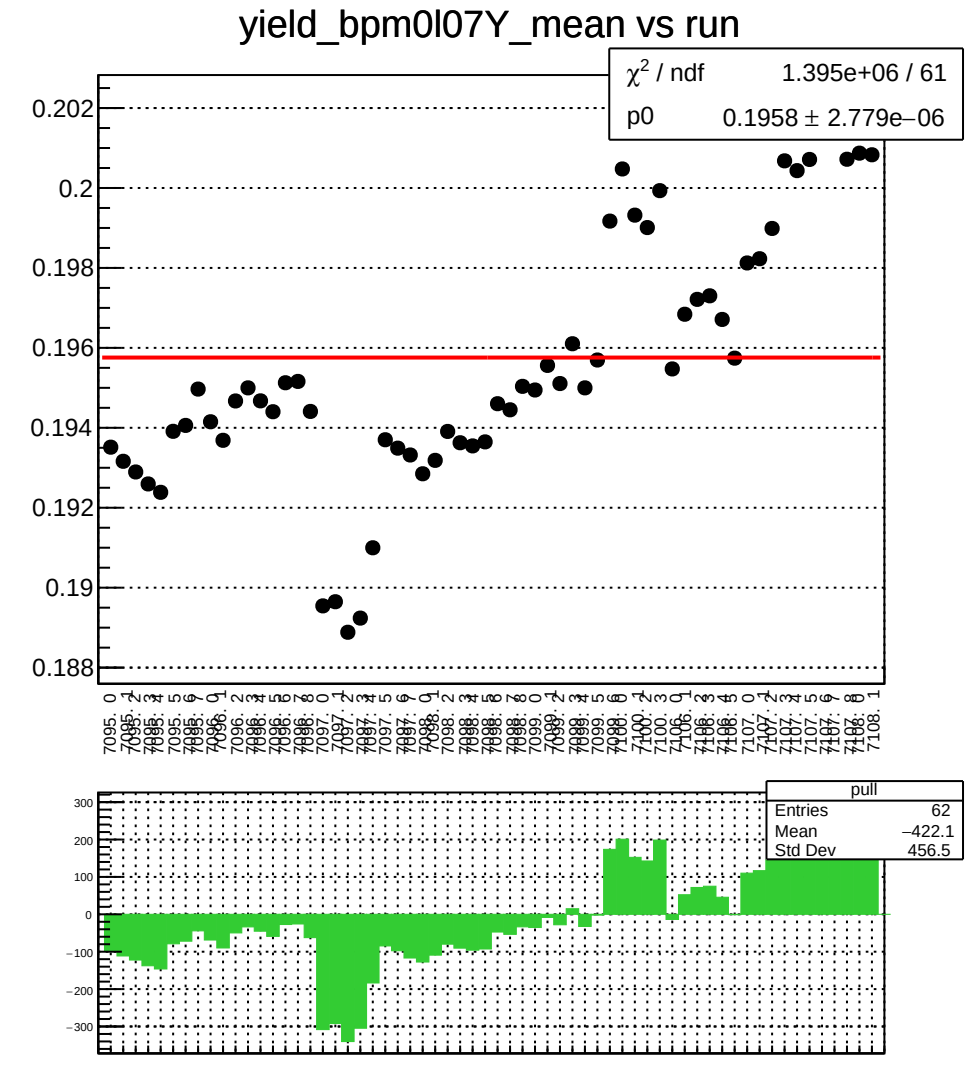

yield_bpm0l06Y_mean vs run
χ² / ndf 4.638e+06 / 61
p0 −1.641 ± 3.53e−06
−1.625
−1.63
−1.635
−1.64
−1.645
−1.65
−1.655
−1.66
−1.665
pull
Entries 62
Mean −216.9
Std Dev 260.9
600
400
200
0
−200
−400
−600
−800

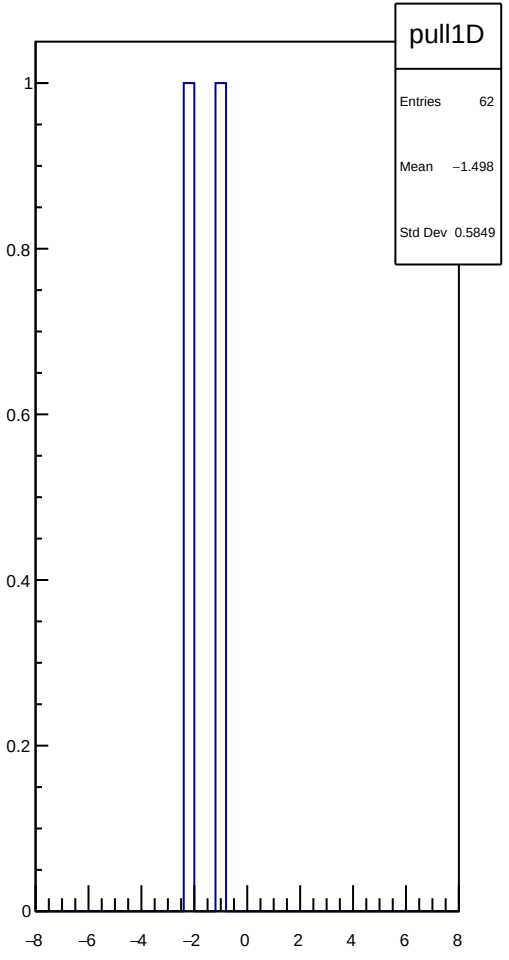

pull1D
Entries 62
Mean −5.705
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

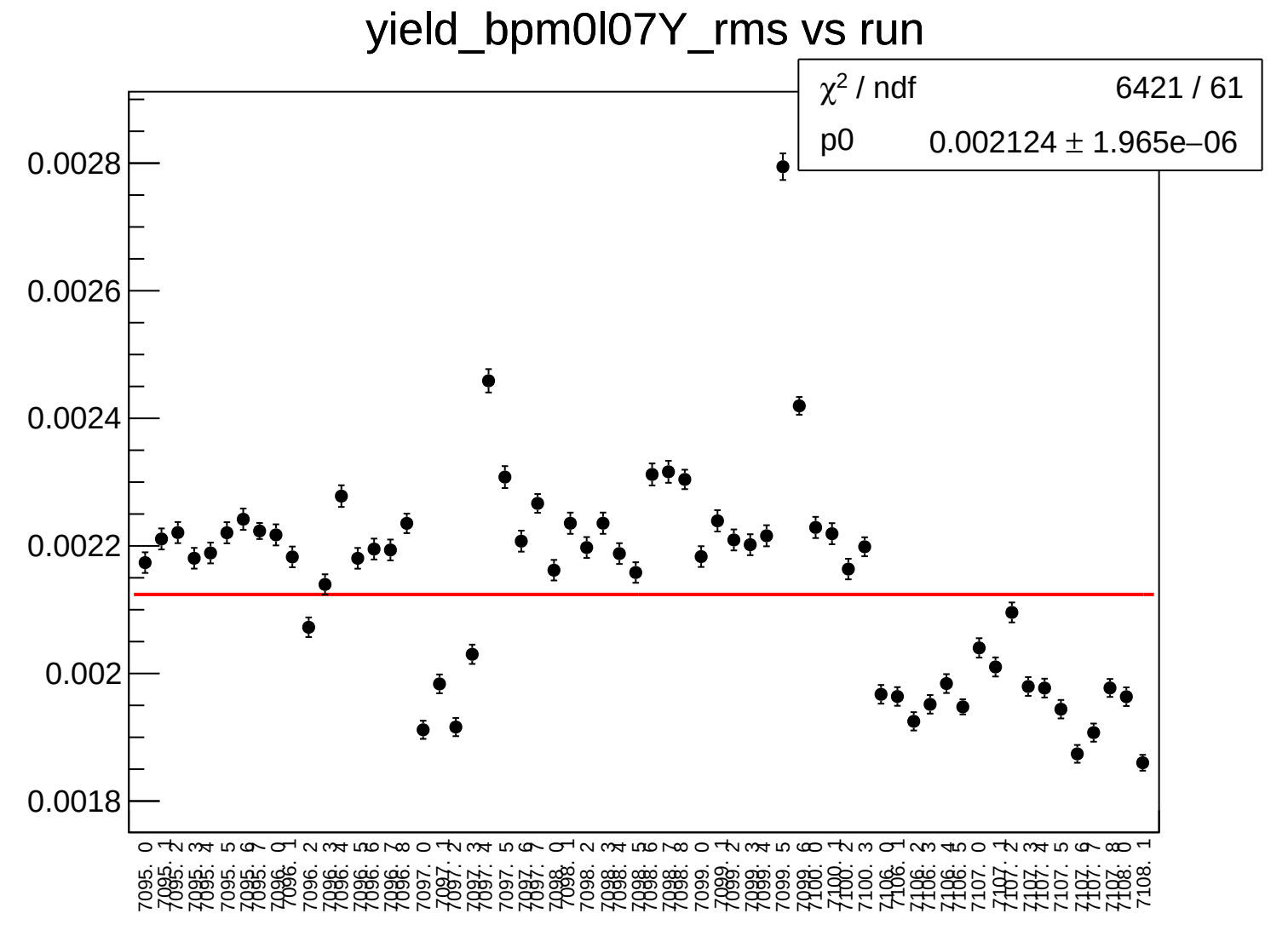

yield_bpm0l06Y_rms vs run
χ² / ndf 2.516e+04 / 61
p0 0.002676 ± 2.496e−06
0.01
0.008
0.006
0.004
0.002

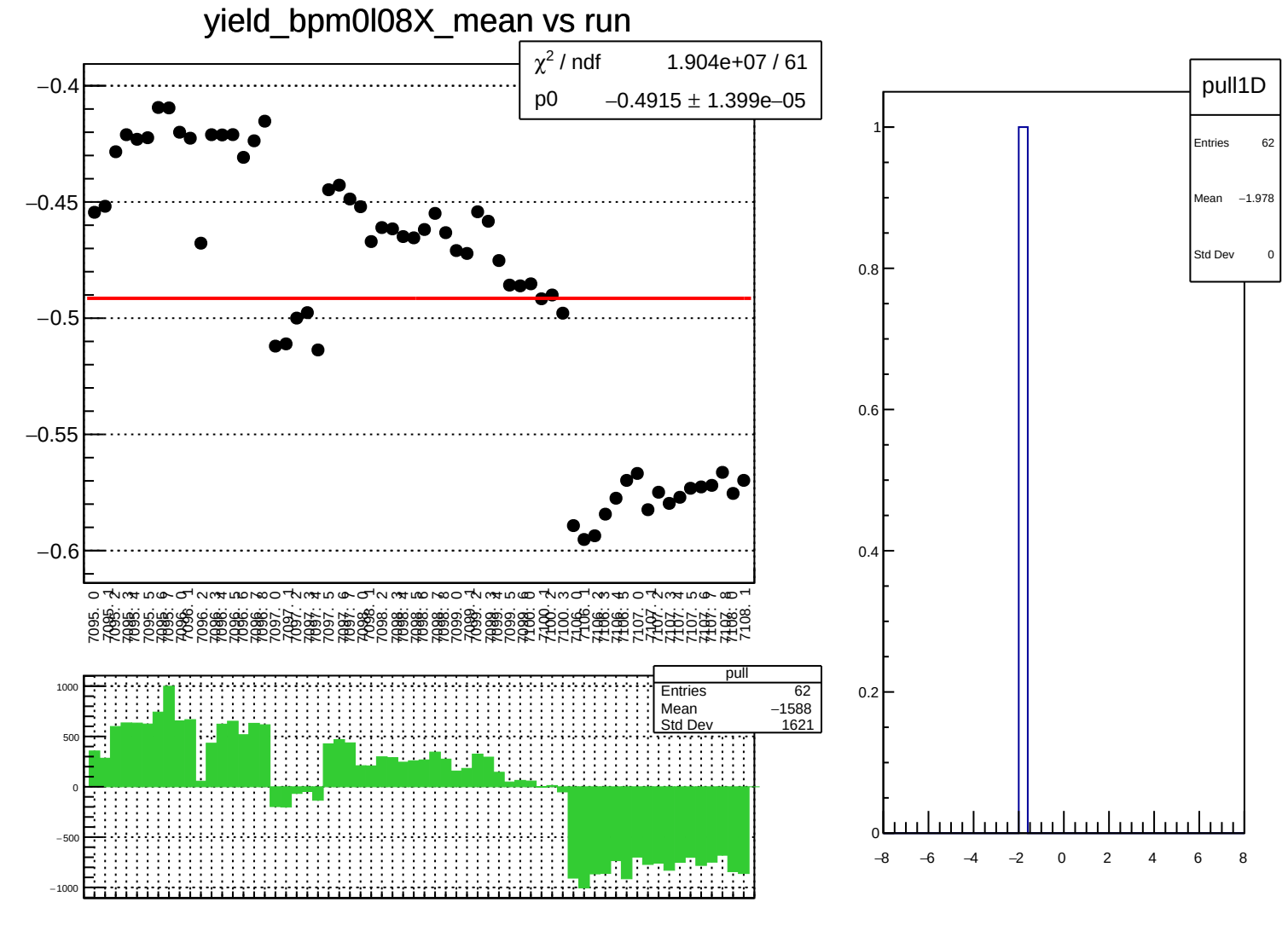

yield_bpm0l07X_mean vs run
χ² / ndf 2.104e+07 / 61
p0 −0.7042 ± 1.548e−05
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 62
Mean −1211
Std Dev 1244
1000
500
0
−500
−1000
pull1D
Entries 62
Mean −0.01044
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

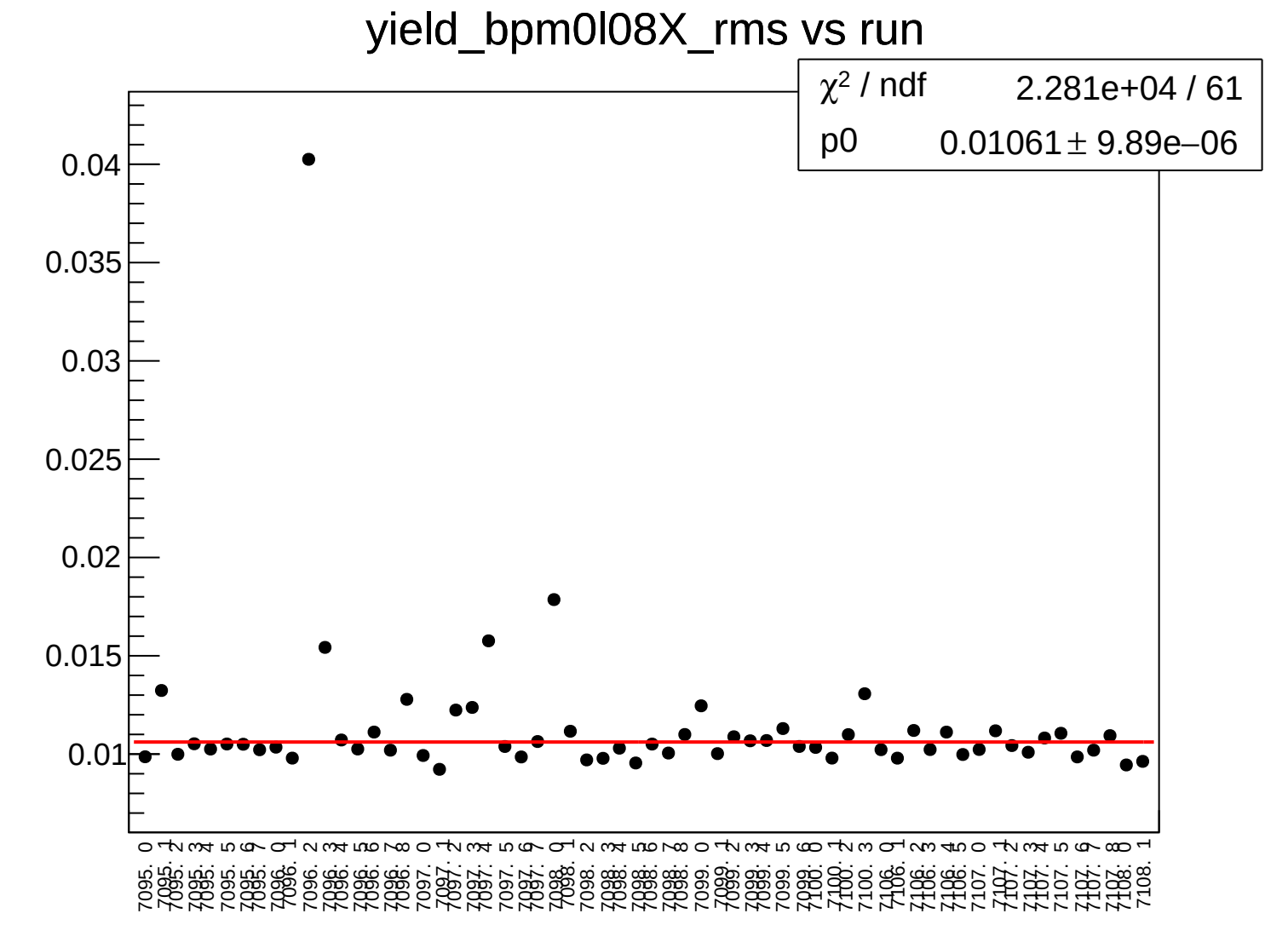

yield_bpm0l07X_rms vs run
χ² / ndf 2.443e+04 / 61
p0 0.01173 ± 1.094e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

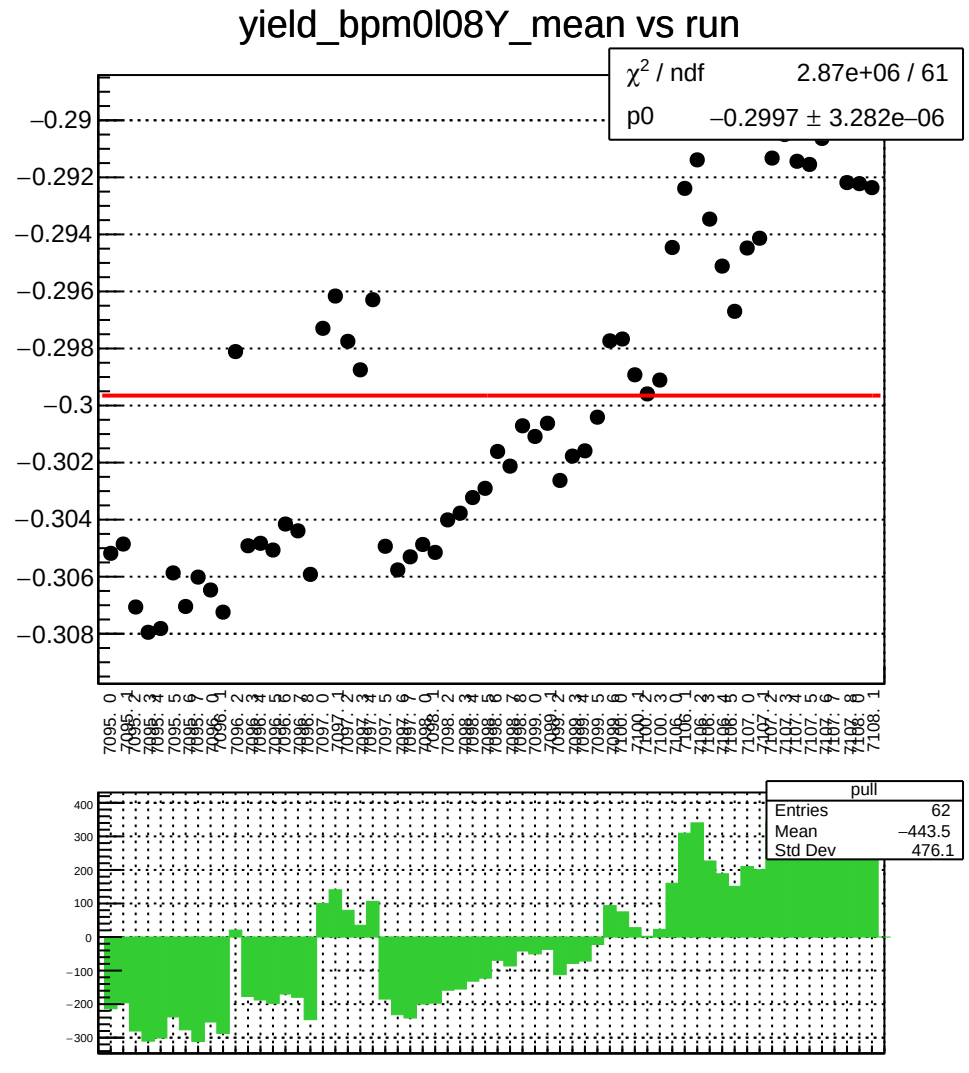

yield_bpm0l07Y_mean vs run
χ² / ndf 1.395e+06 / 61
p0 0.1958 ± 2.779e−06
0.202
0.2
0.198
0.196
0.194
0.192
0.19
0.188
pull
Entries 62
Mean −422.1
Std Dev 456.5
300
200
100
0
−100
−200
−300

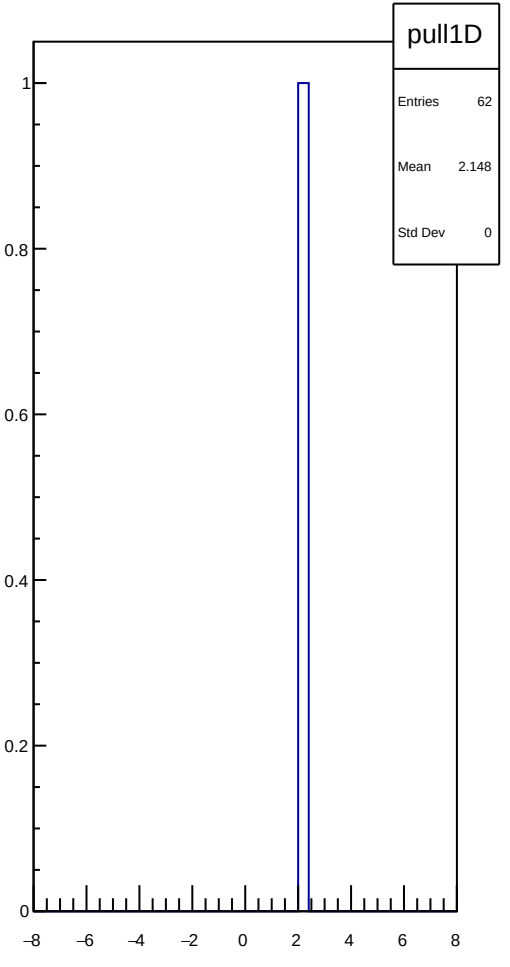

pull1D
Entries 62
Mean −1.498
Std Dev 0.5849
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

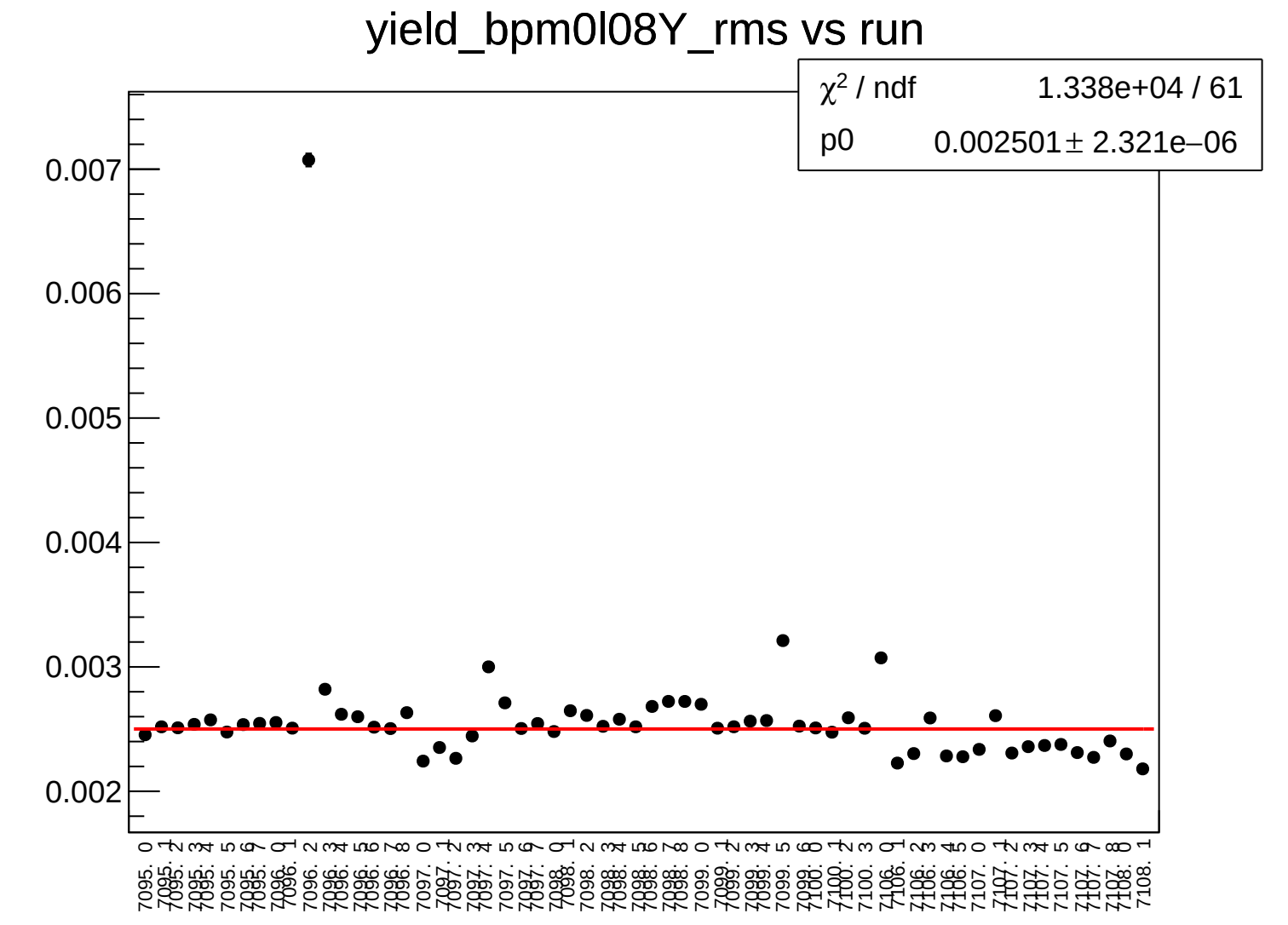

yield_bpm0l07Y_rms vs run
χ² / ndf 6421 / 61
p0 0.002124 ± 1.965e−06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

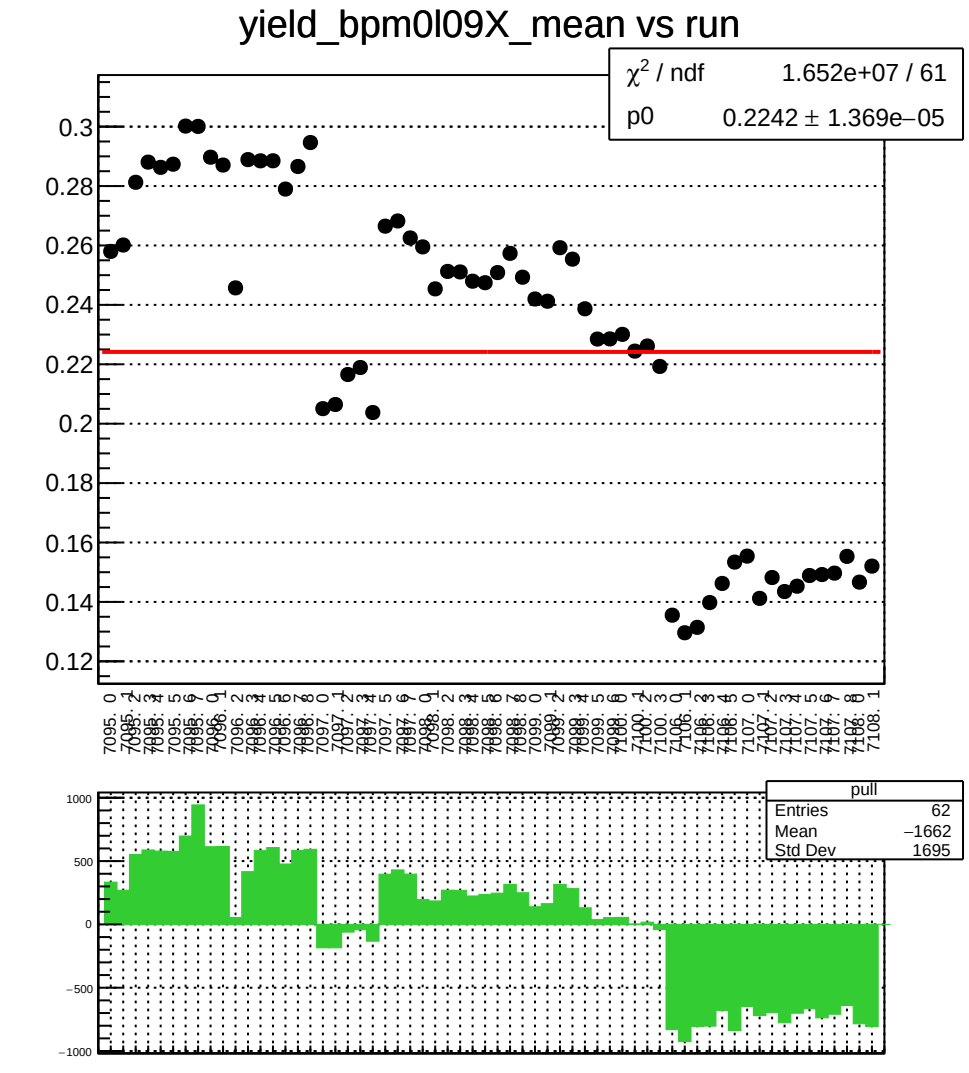

yield_bpm0l08X_mean vs run
χ² / ndf 1.904e+07 / 61
p0 −0.4915 ± 1.399e−05
−0.4
−0.45
−0.5
−0.55
−0.6
pull
Entries 62
Mean −1588
Std Dev 1621
1000
500
0
−500
−1000
pull1D
Entries 62
Mean −1.978
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

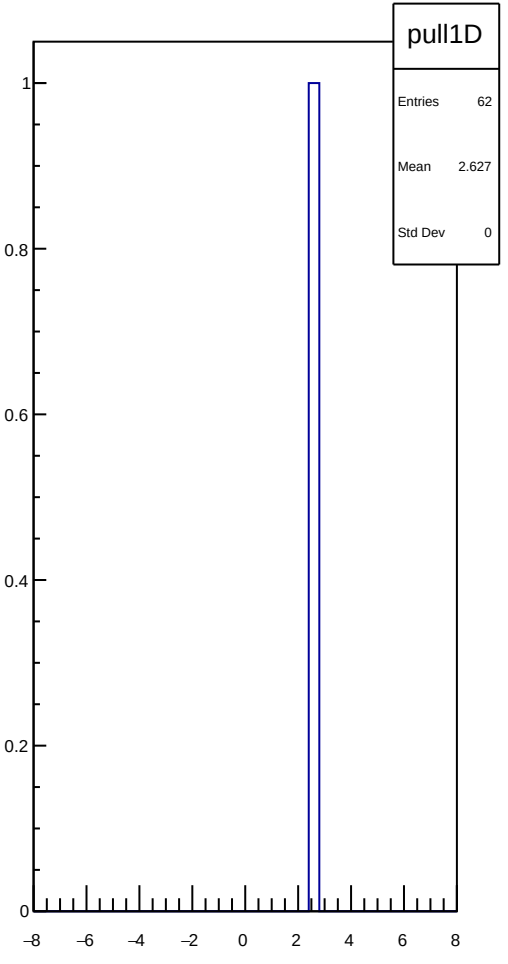

yield_bpm0l08X_rms vs run
χ² / ndf 2.281e+04 / 61
p0 0.01061 ± 9.89e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

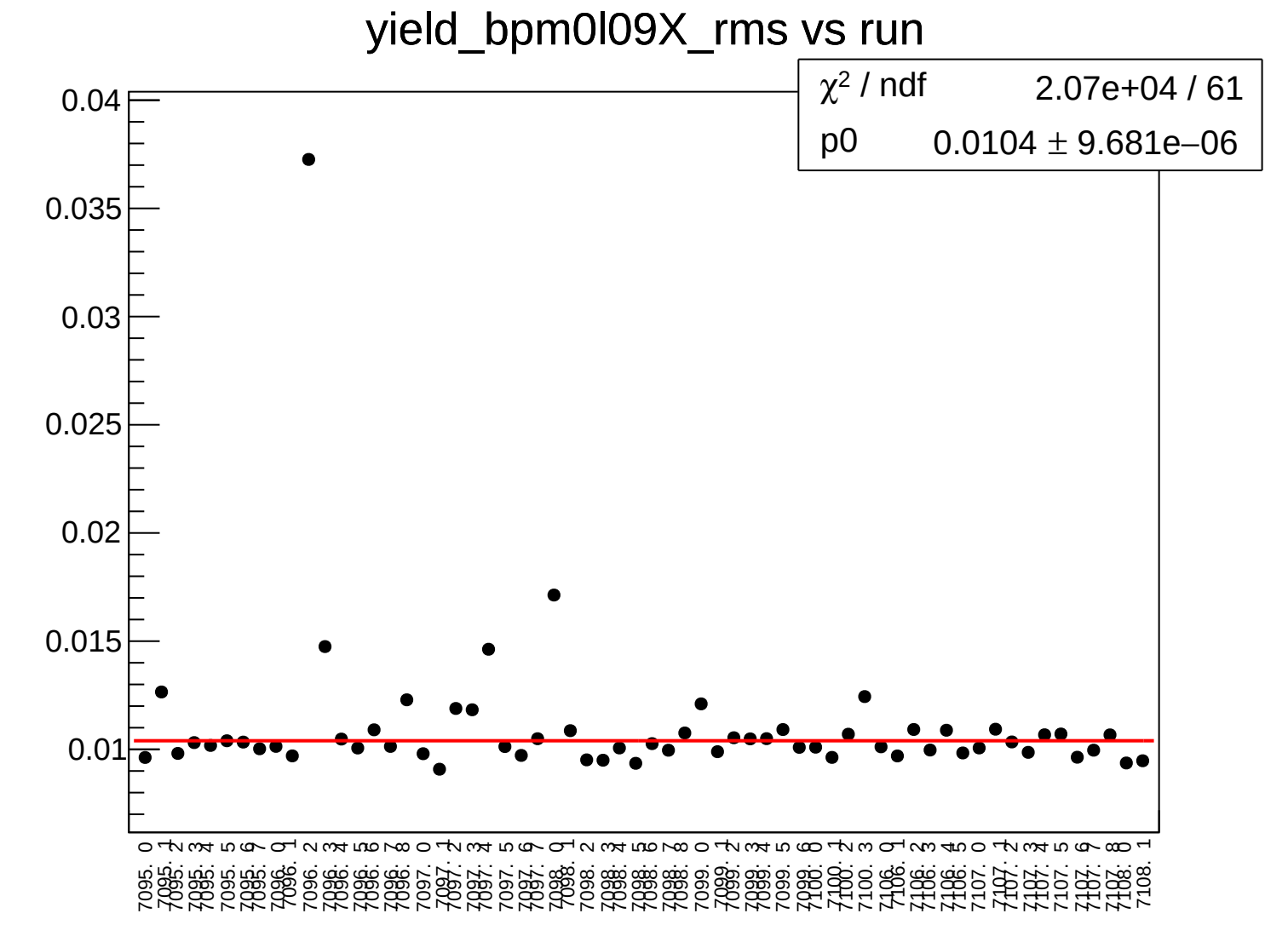

yield_bpm0l08Y_mean vs run
χ² / ndf 2.87e+06 / 61
p0 −0.2997 ± 3.282e−06
−0.29
−0.292
−0.294
−0.296
−0.298
−0.3
−0.302
−0.304
−0.306
−0.308
pull
Entries 62
Mean −443.5
Std Dev 476.1
400
300
200
100
0
−100
−200
−300

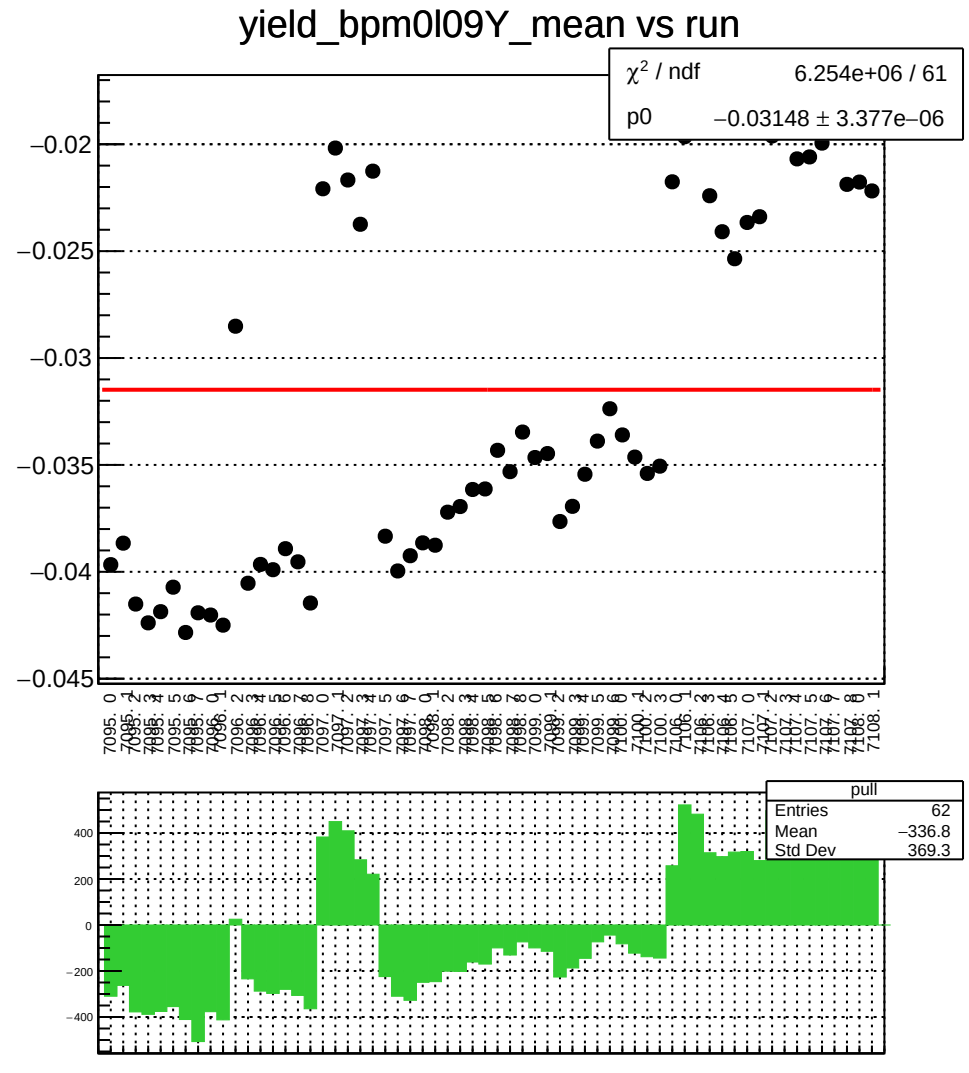

pull1D
Entries 62
Mean 2.148
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

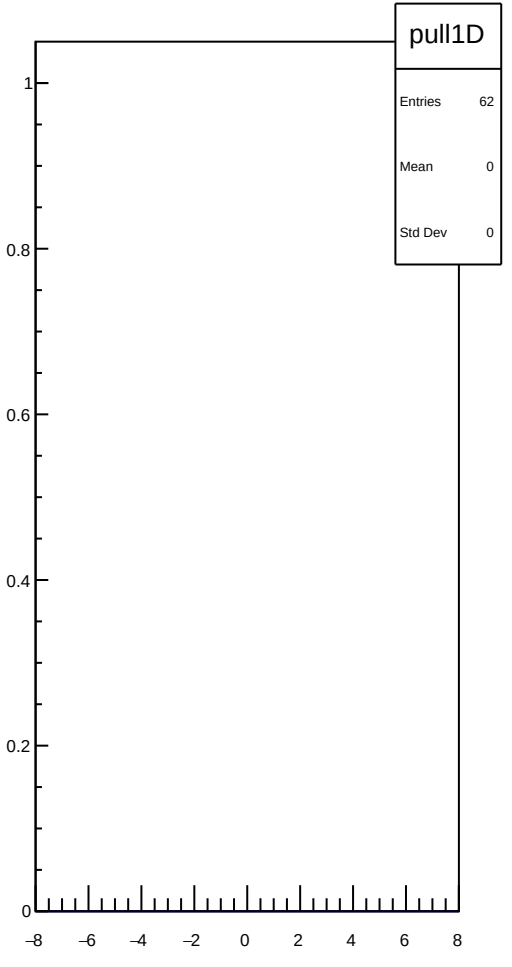

yield_bpm0l08Y_rms vs run
χ² / ndf 1.338e+04 / 61
p0 0.002501 ± 2.321e−06
0.007
0.006
0.005
0.004
0.003
0.002

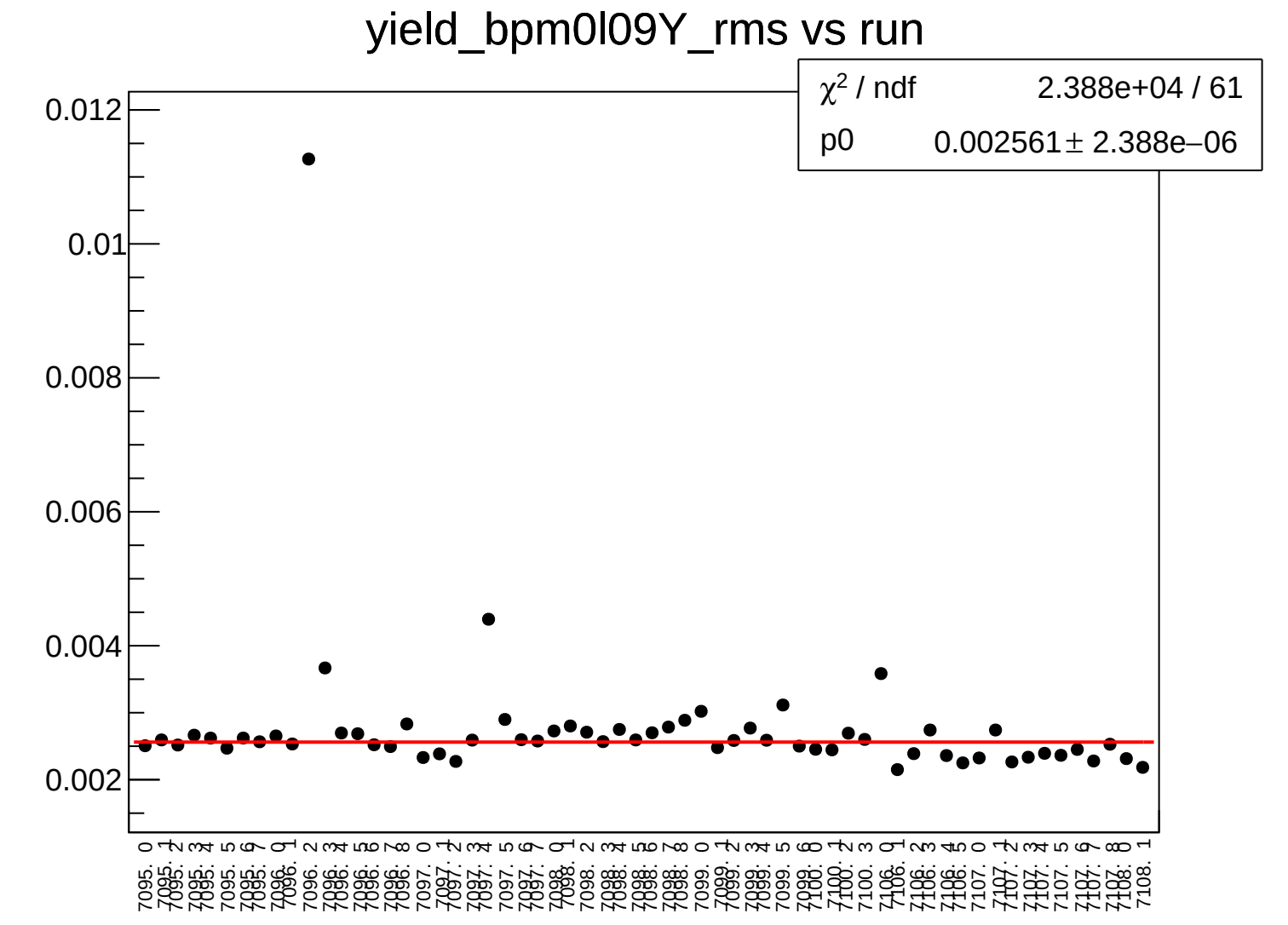

yield_bpm0l09X_mean vs run
χ² / ndf 1.652e+07 / 61
p0 0.2242 ± 1.369e−05
pull
Entries 62
Mean −1662
Std Dev 1695

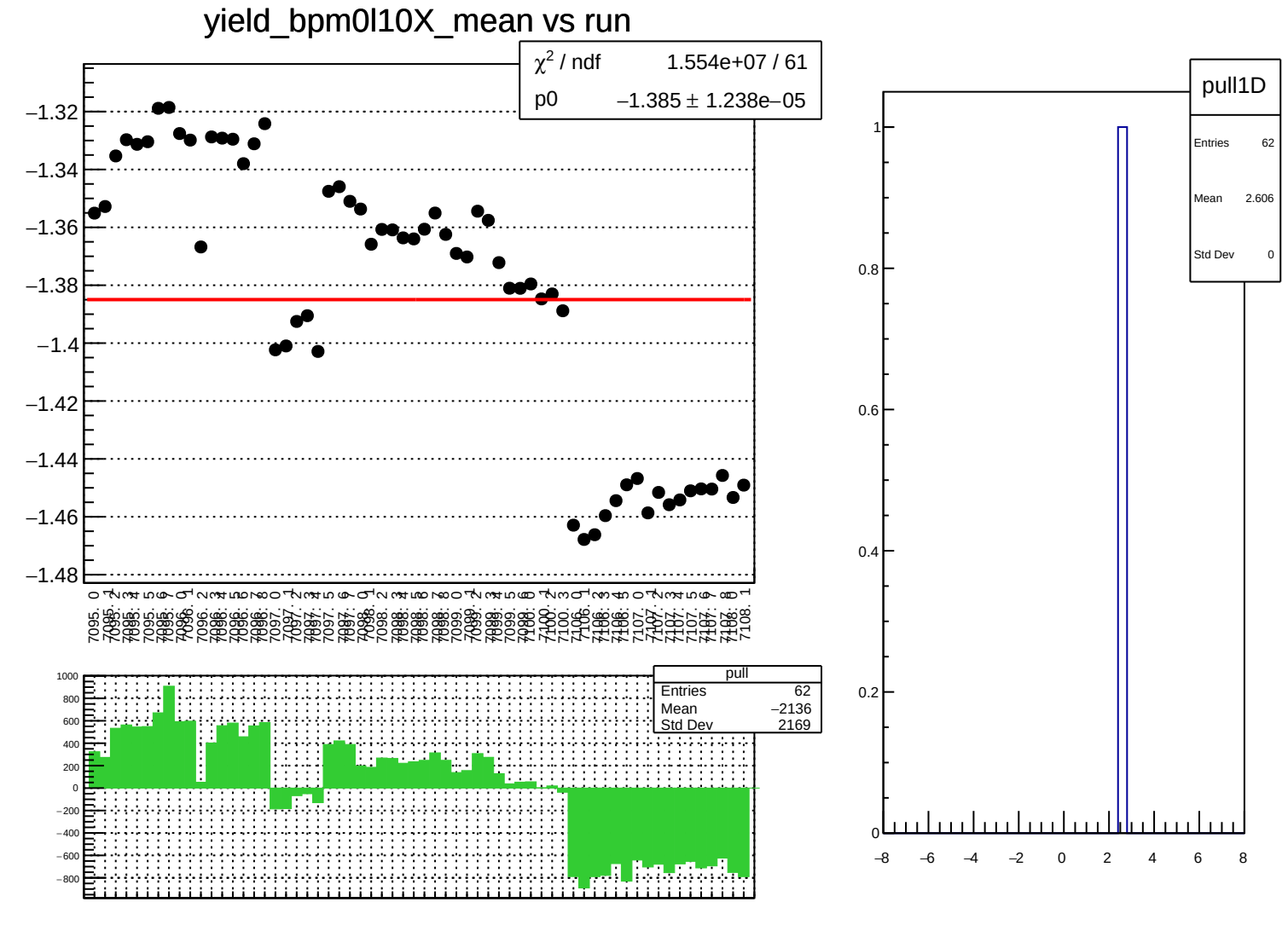

pull1D
Entries 62
Mean 2.627
Std Dev 0

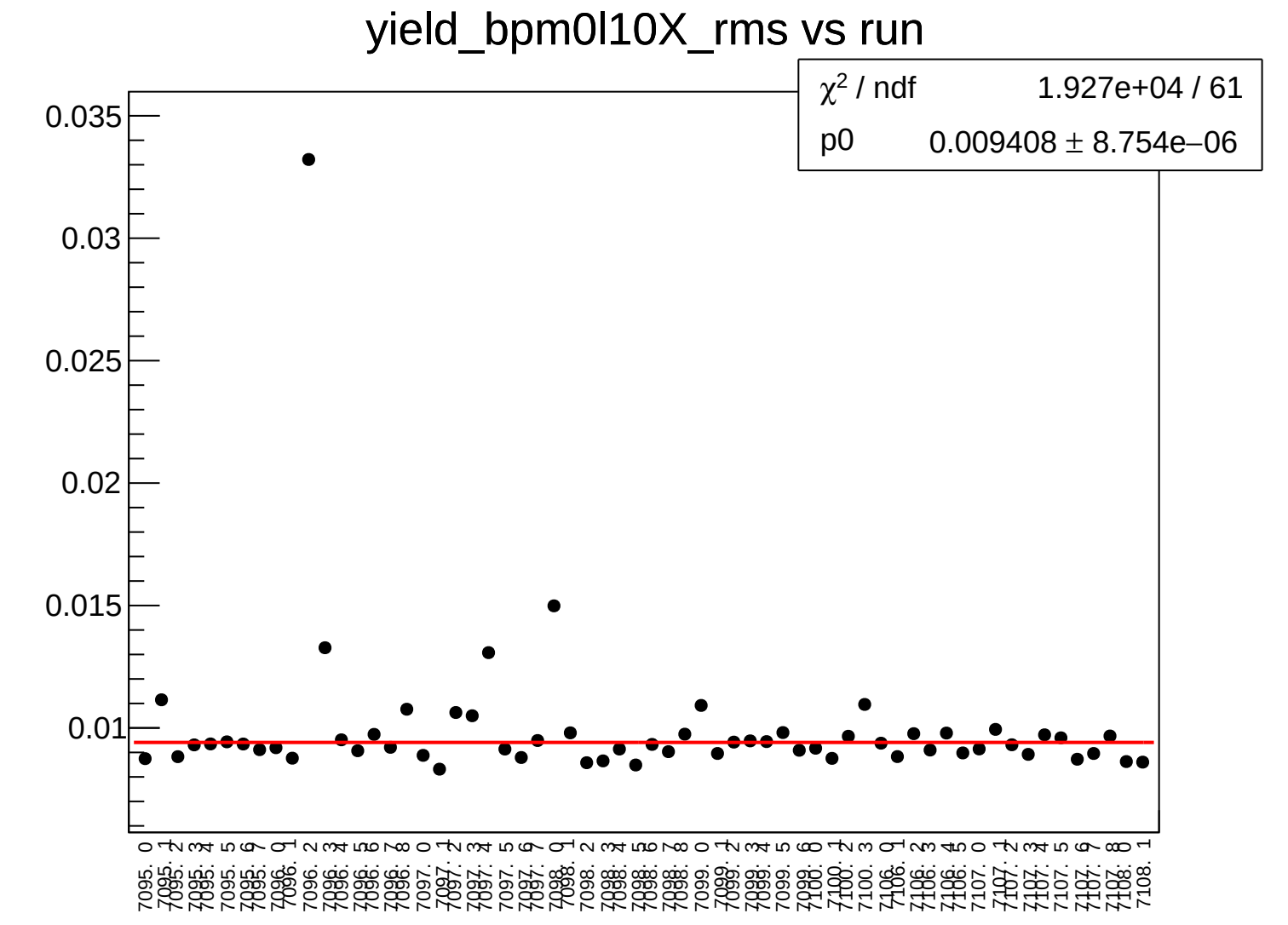

yield_bpm0l09X_rms vs run
χ² / ndf 2.07e+04 / 61
p0 0.0104 ± 9.681e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

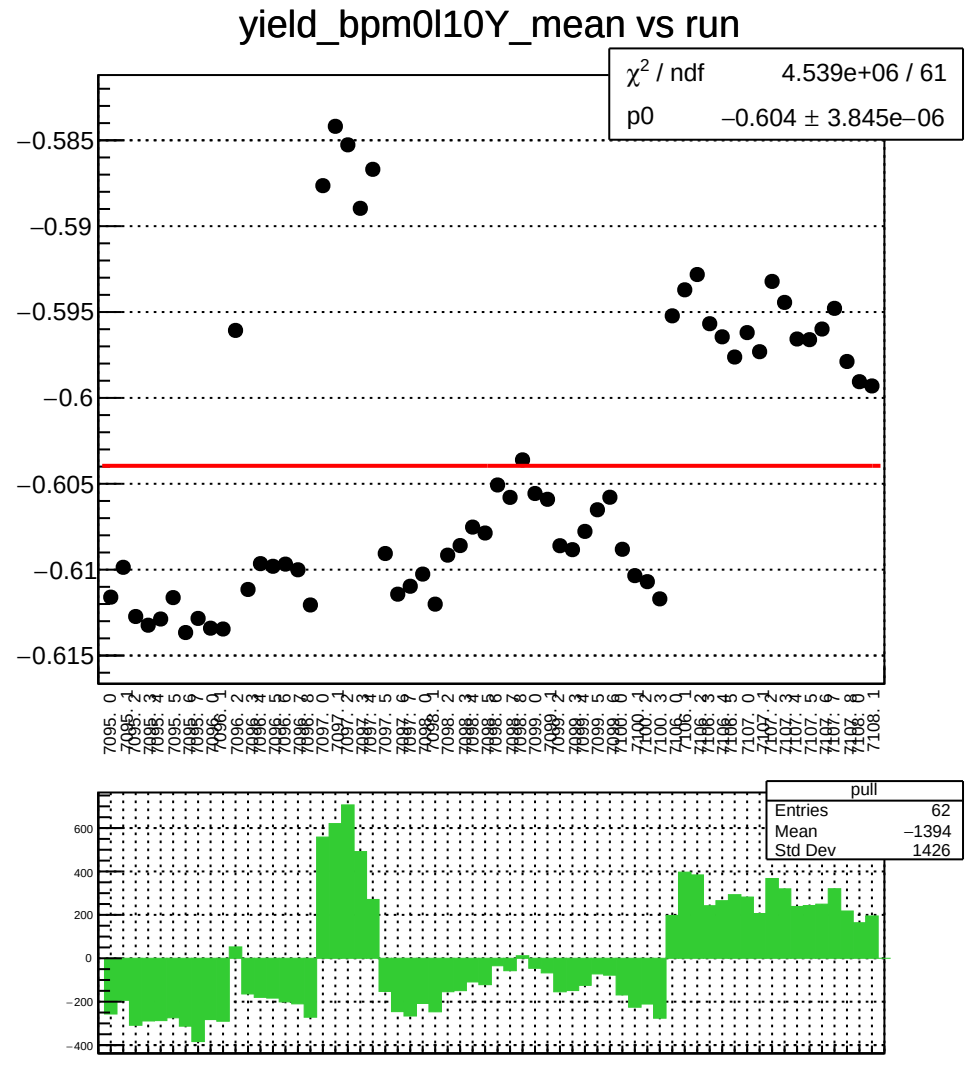

yield_bpm0l09Y_mean vs run
χ² / ndf 6.254e+06 / 61
p0 −0.03148 ± 3.377e−06
−0.02
−0.025
−0.03
−0.035
−0.04
−0.045
pull
Entries 62
Mean −336.8
Std Dev 369.3
400
200
0
−200
−400

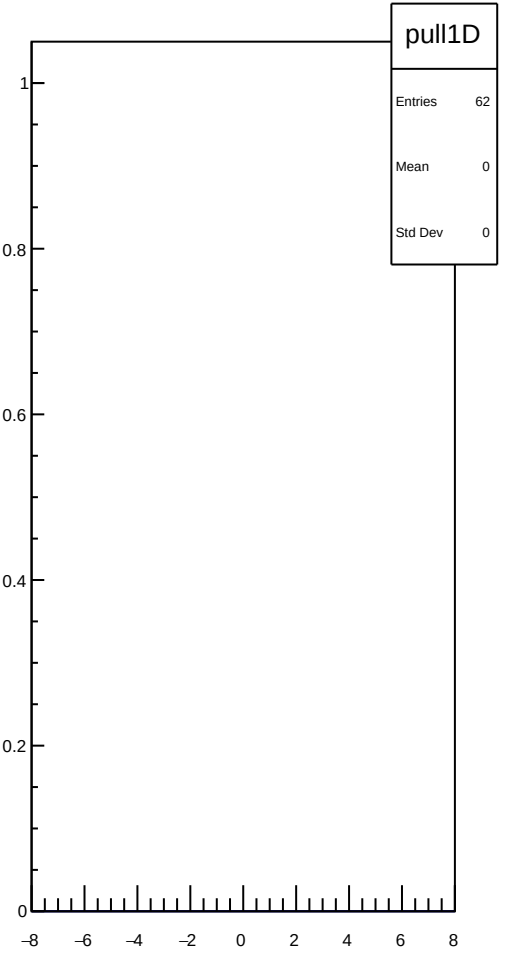

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

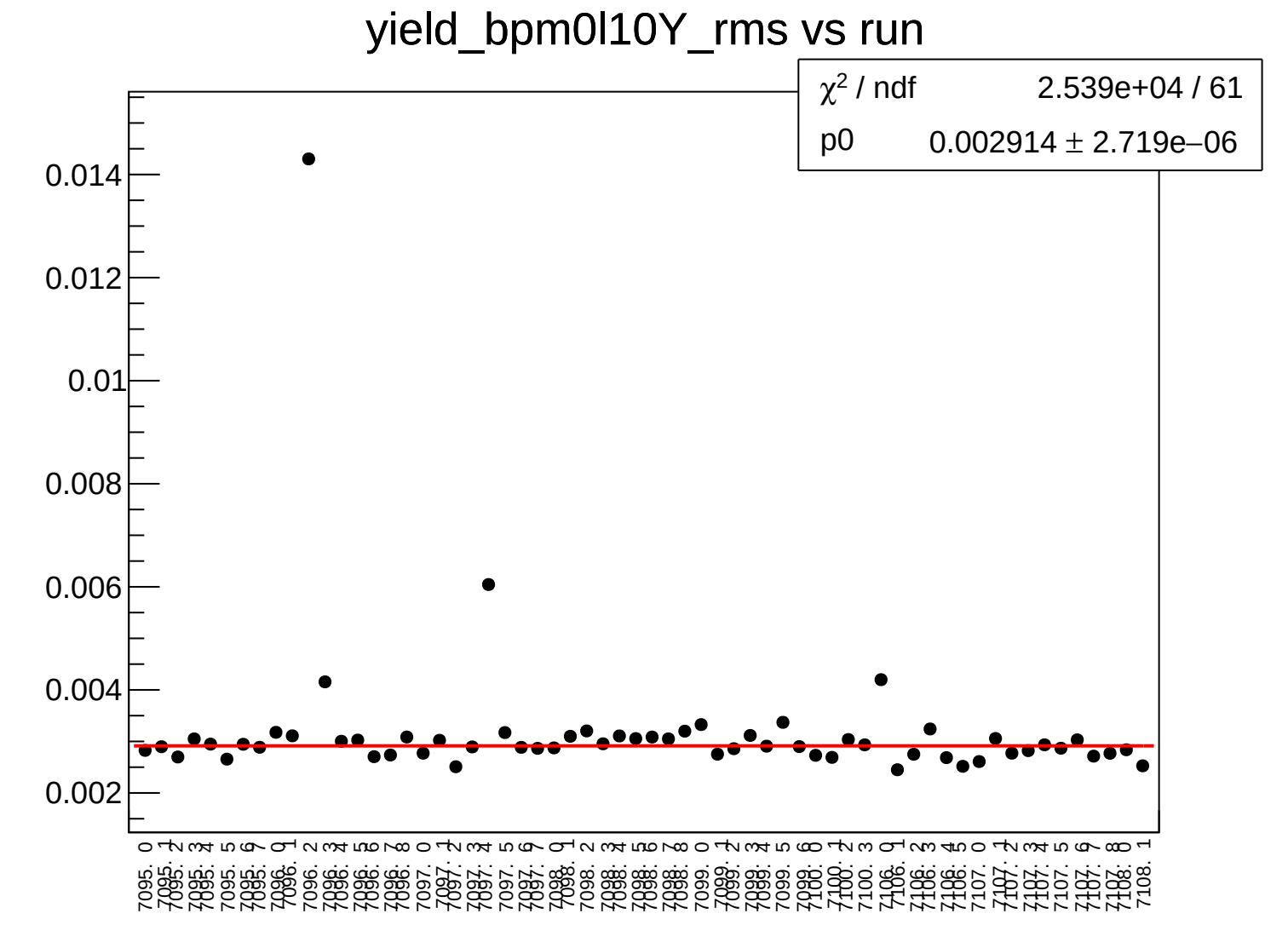

yield_bpm0l09Y_rms vs run
χ² / ndf 2.388e+04 / 61
p0 0.002561 ± 2.388e−06
0.012
0.01
0.008
0.006
0.004
0.002
7095. 0
7095. 1
7095. 2
7095. 3
7095. 4
7095. 5
7095. 6
7095. 7
7095. 8
7095. 9
7096. 0
7096. 1
7096. 2
7096. 3
7096. 4
7096. 5
7096. 6
7096. 7
7096. 8
7096. 9
7097. 0
7097. 1
7097. 2
7097. 3
7097. 4
7097. 5
7097. 6
7097. 7
7097. 8
7097. 9
7098. 0
7098. 1
7098. 2
7098. 3
7098. 4
7098. 5
7098. 6
7098. 7
7098. 8
7098. 9
7099. 0
7099. 1
7099. 2
7099. 3
7099. 4
7099. 5
7099. 6
7099. 7
7099. 8
7099. 9
7100. 0
7100. 1
7100. 2
7100. 3
7106. 0
7106. 1
7106. 2
7106. 3
7106. 4
7106. 5
7107. 0
7107. 1
7107. 2
7107. 3
7107. 4
7107. 5
7107. 6
7107. 7
7107. 8
7108. 0
7108. 1

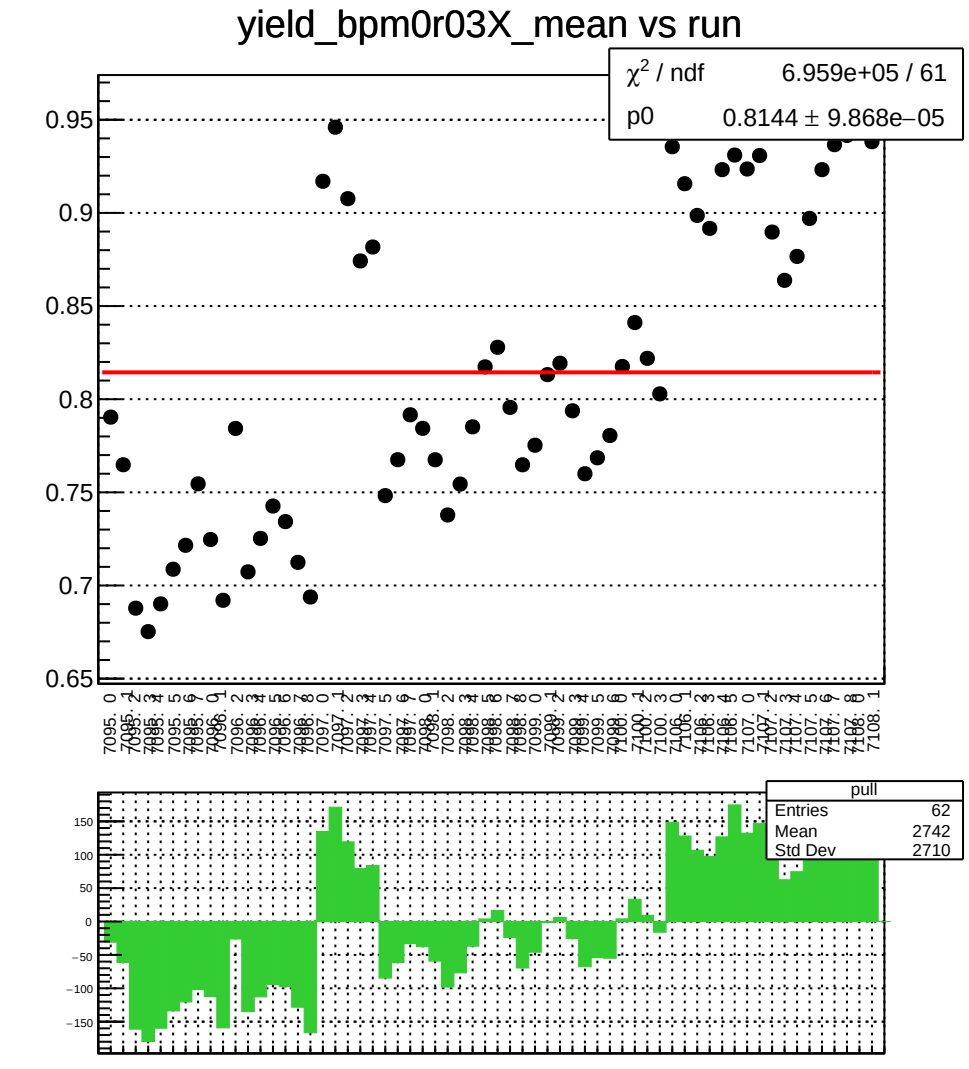

yield_bpm0l10X_mean vs run
χ² / ndf 1.554e+07 / 61
p0 −1.385 ± 1.238e−05
−1.32
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
pull
Entries 62
Mean −2136
Std Dev 2169
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 62
Mean 2.606
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

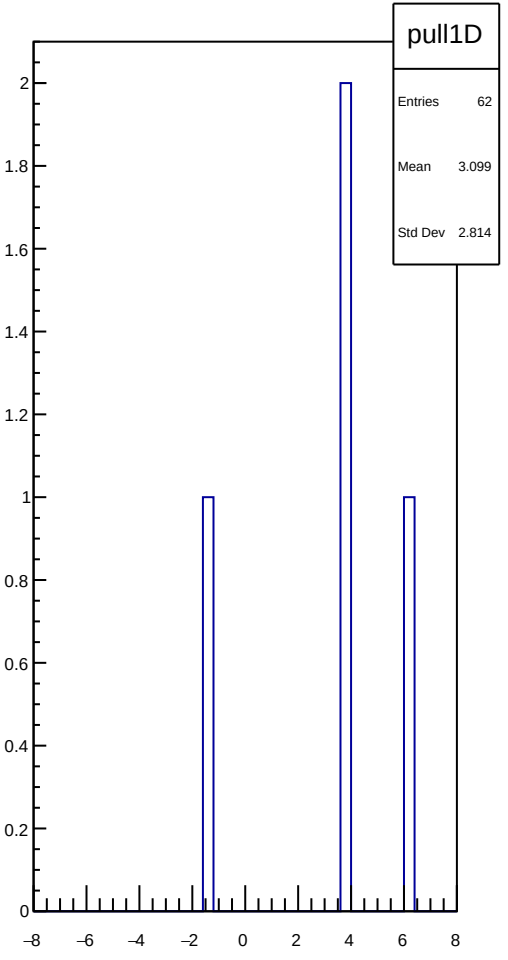

yield_bpm0l10X_rms vs run
χ² / ndf 1.927e+04 / 61
p0 0.009408 ± 8.754e−06
0.035
0.03
0.025
0.02
0.015
0.01

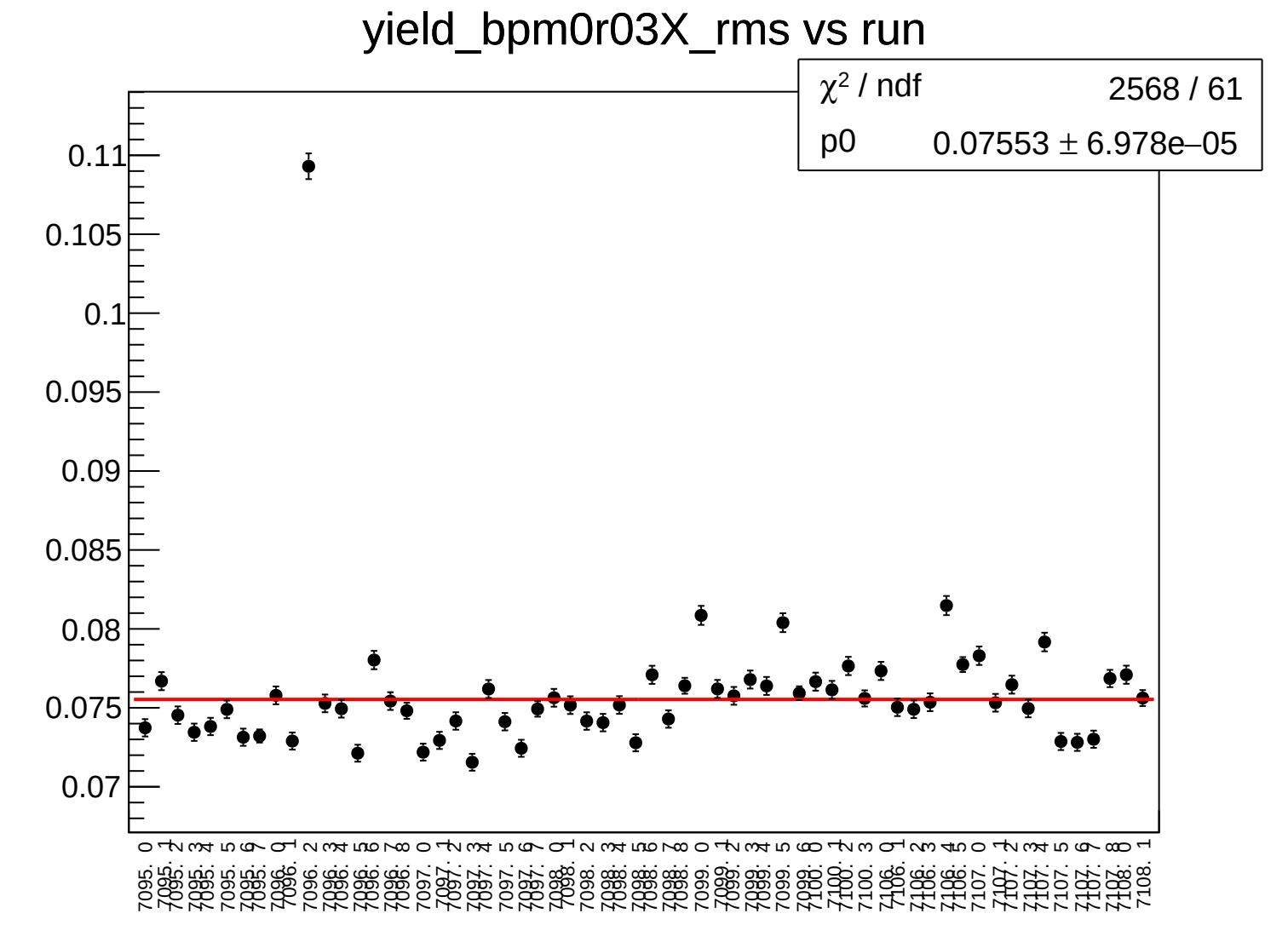

yield_bpm0l10Y_mean vs run
χ² / ndf 4.539e+06 / 61
p0 −0.604 ± 3.845e−06
−0.585
−0.59
−0.595
−0.6
−0.605
−0.61
−0.615
pull
Entries 62
Mean −1394
Std Dev 1426
600
400
200
0
−200
−400

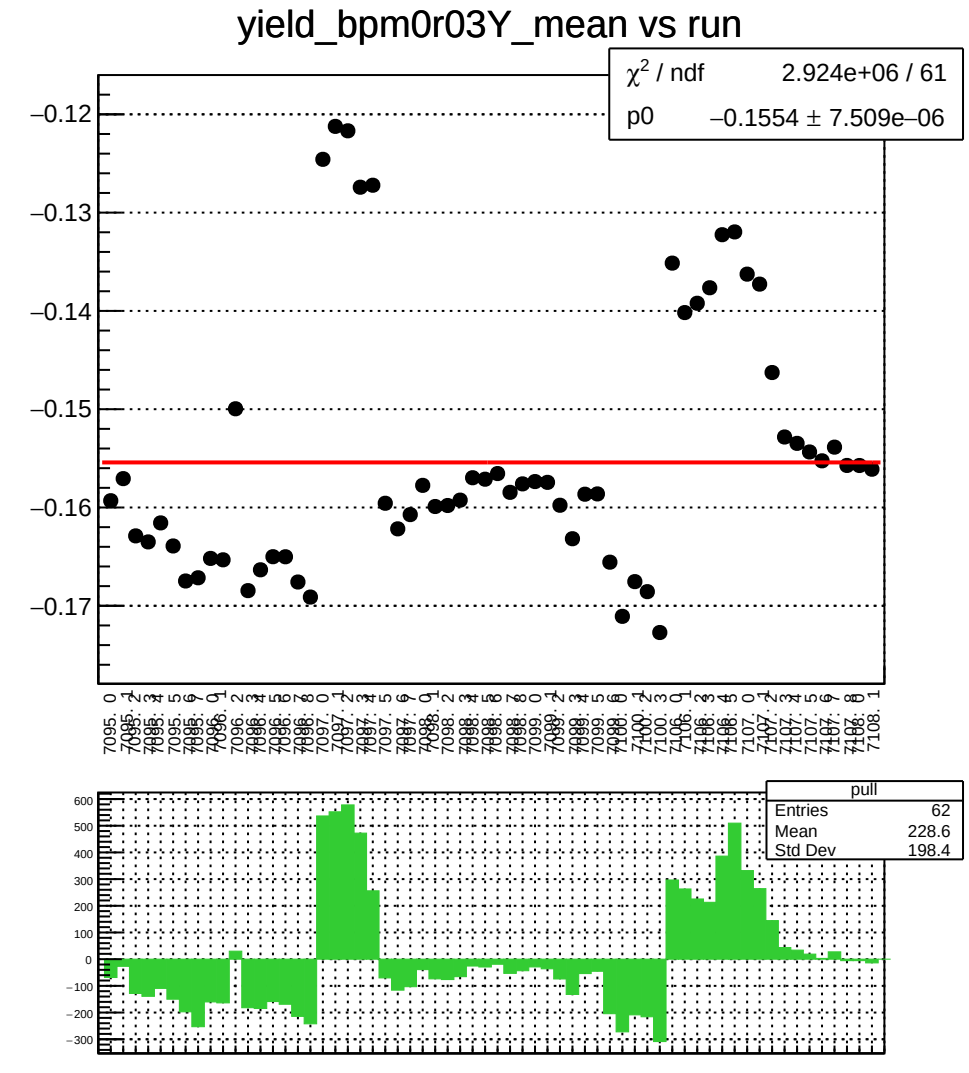

pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

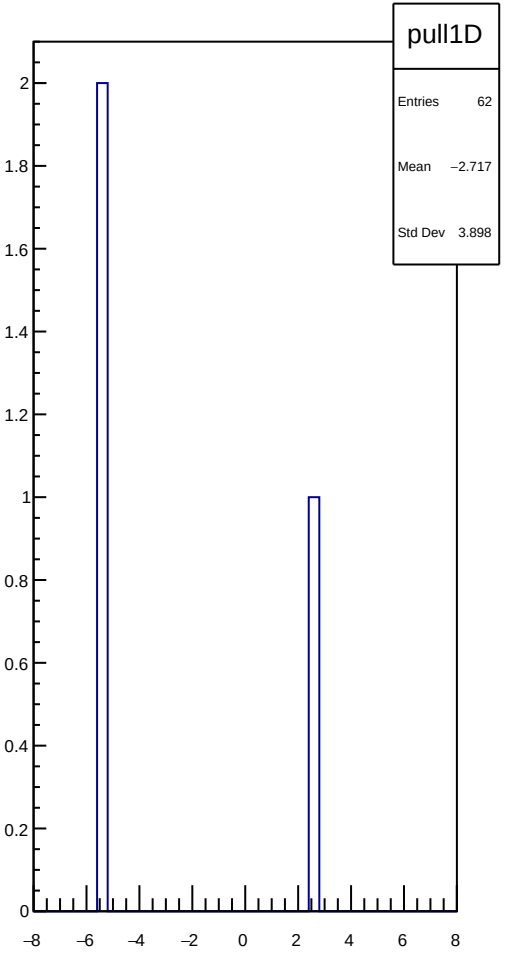

yield_bpm0l10Y_rms vs run
χ² / ndf 2.539e+04 / 61
p0 0.002914 ± 2.719e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

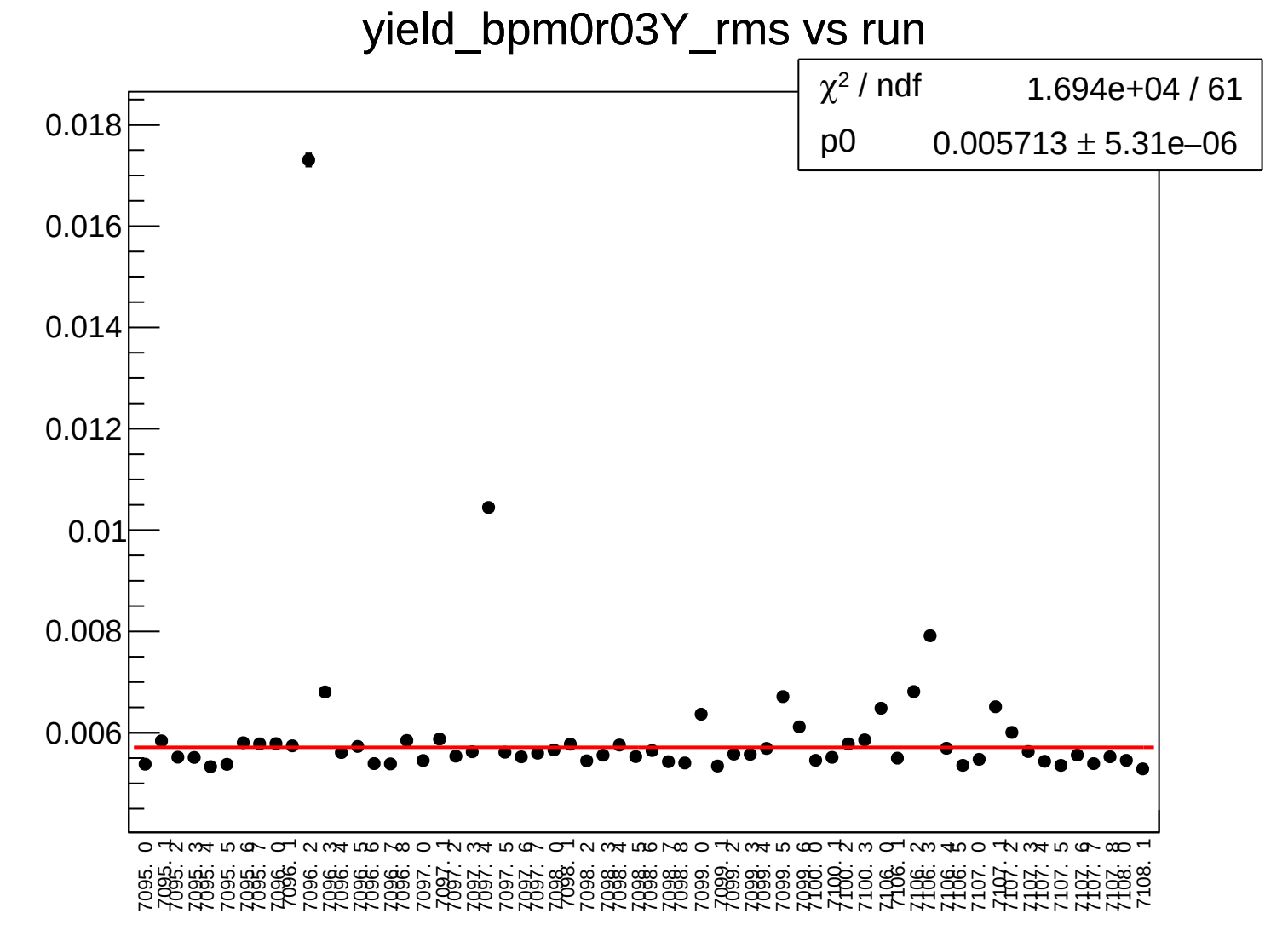

yield_bpm0r03X_mean vs run
χ² / ndf 6.959e+05 / 61
p0 0.8144 ± 9.868e−05
pull
Entries 62
Mean 2742
Std Dev 2710

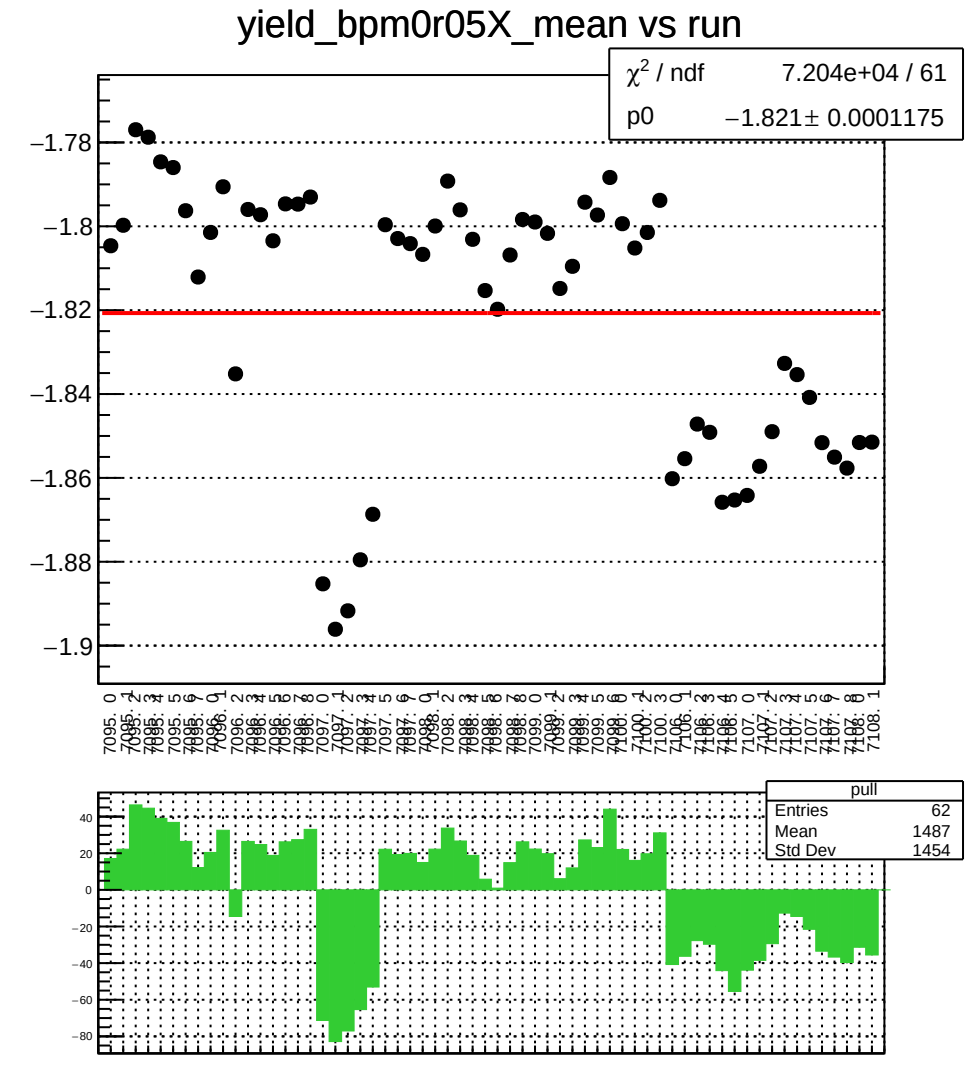

pull1D
Entries 62
Mean 3.099
Std Dev 2.814

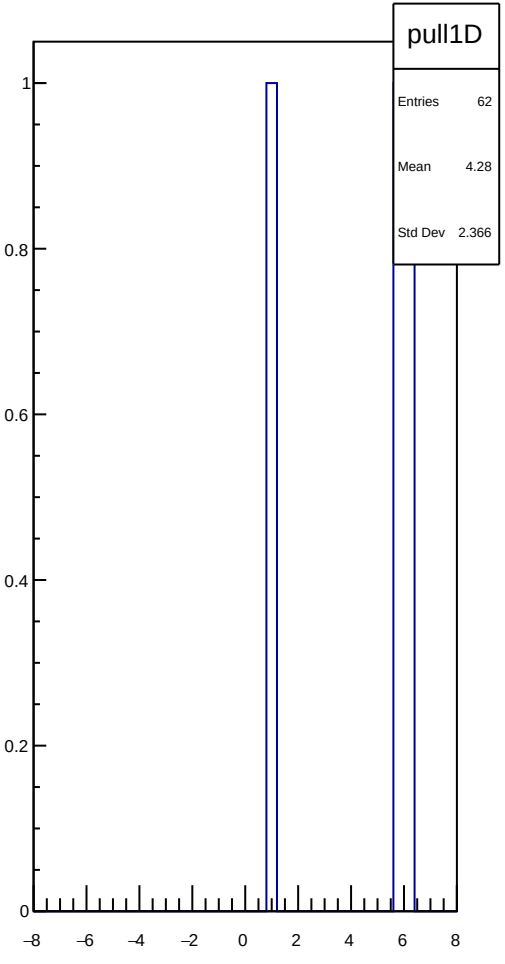

yield_bpm0r03X_rms vs run
χ² / ndf 2568 / 61
p0 0.07553 ± 6.978e–05
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

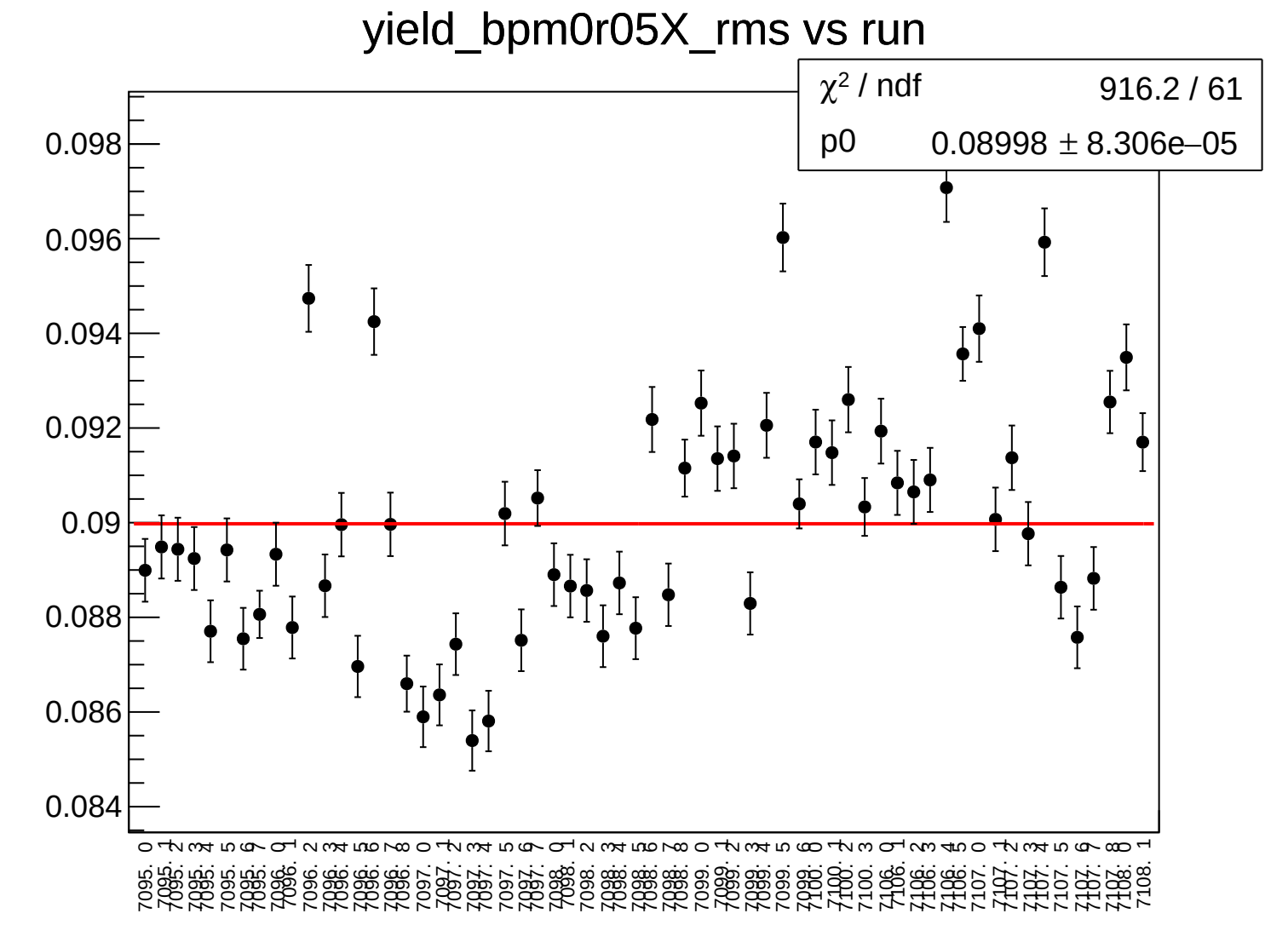

yield_bpm0r03Y_mean vs run
χ² / ndf 2.924e+06 / 61
p0 −0.1554 ± 7.509e−06
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
pull
Entries 62
Mean 228.6
Std Dev 198.4
600
500
400
300
200
100
0
−100
−200
−300

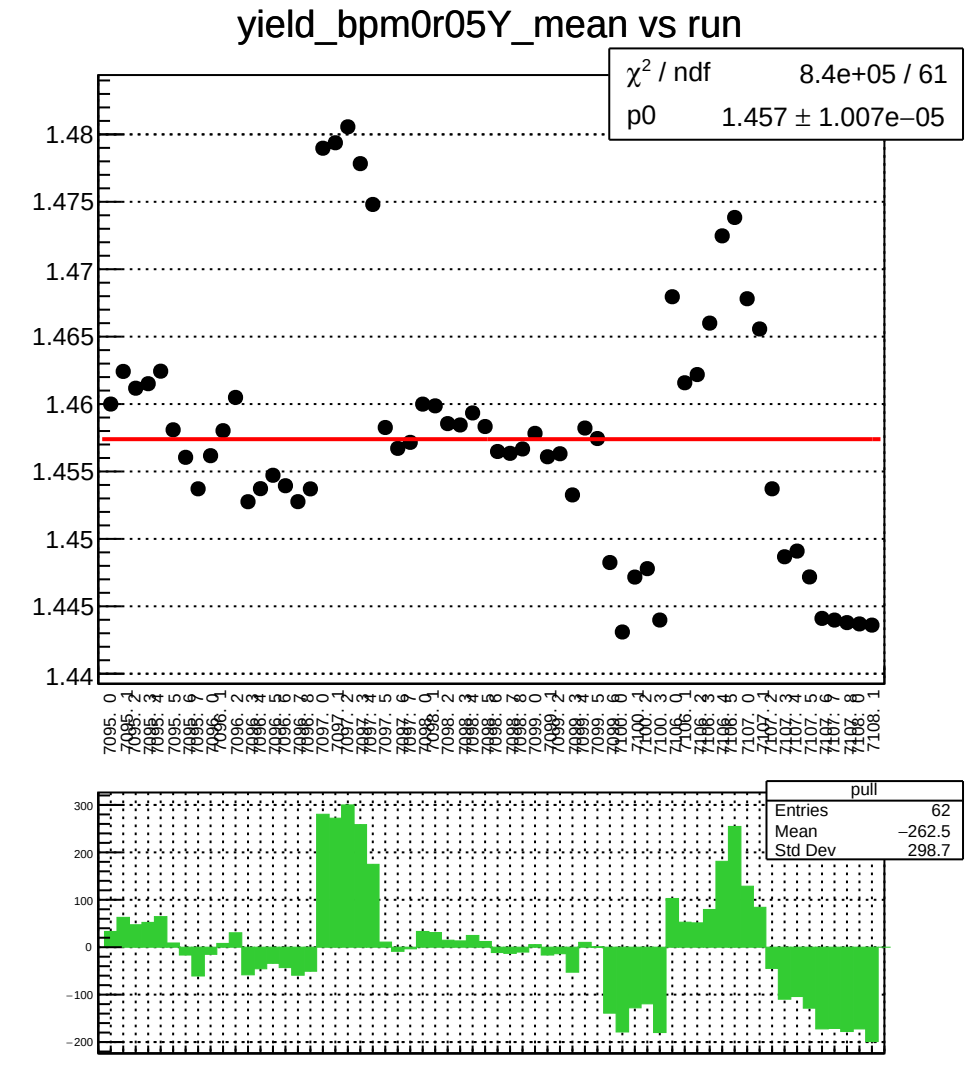

pull1D
Entries 62
Mean −2.717
Std Dev 3.898
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

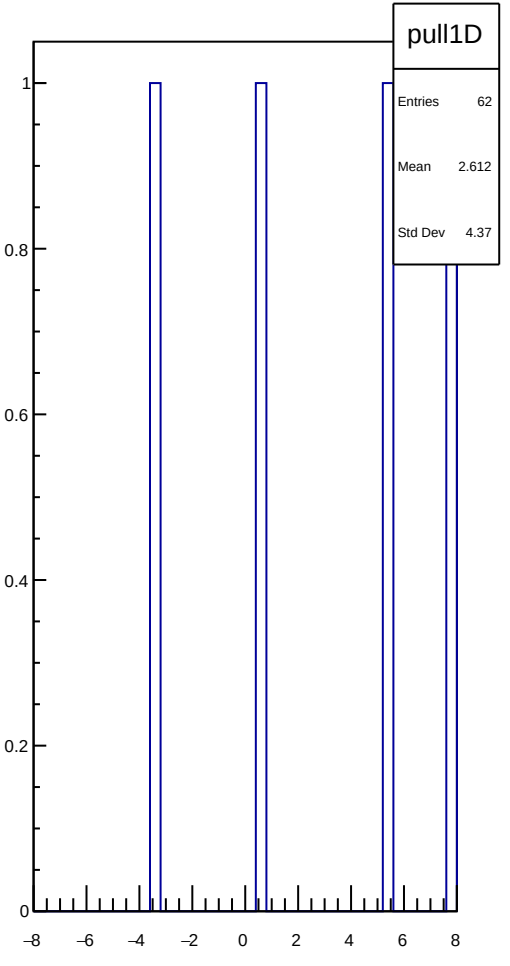

yield_bpm0r03Y_rms vs run
χ² / ndf 1.694e+04 / 61
p0 0.005713 ± 5.31e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

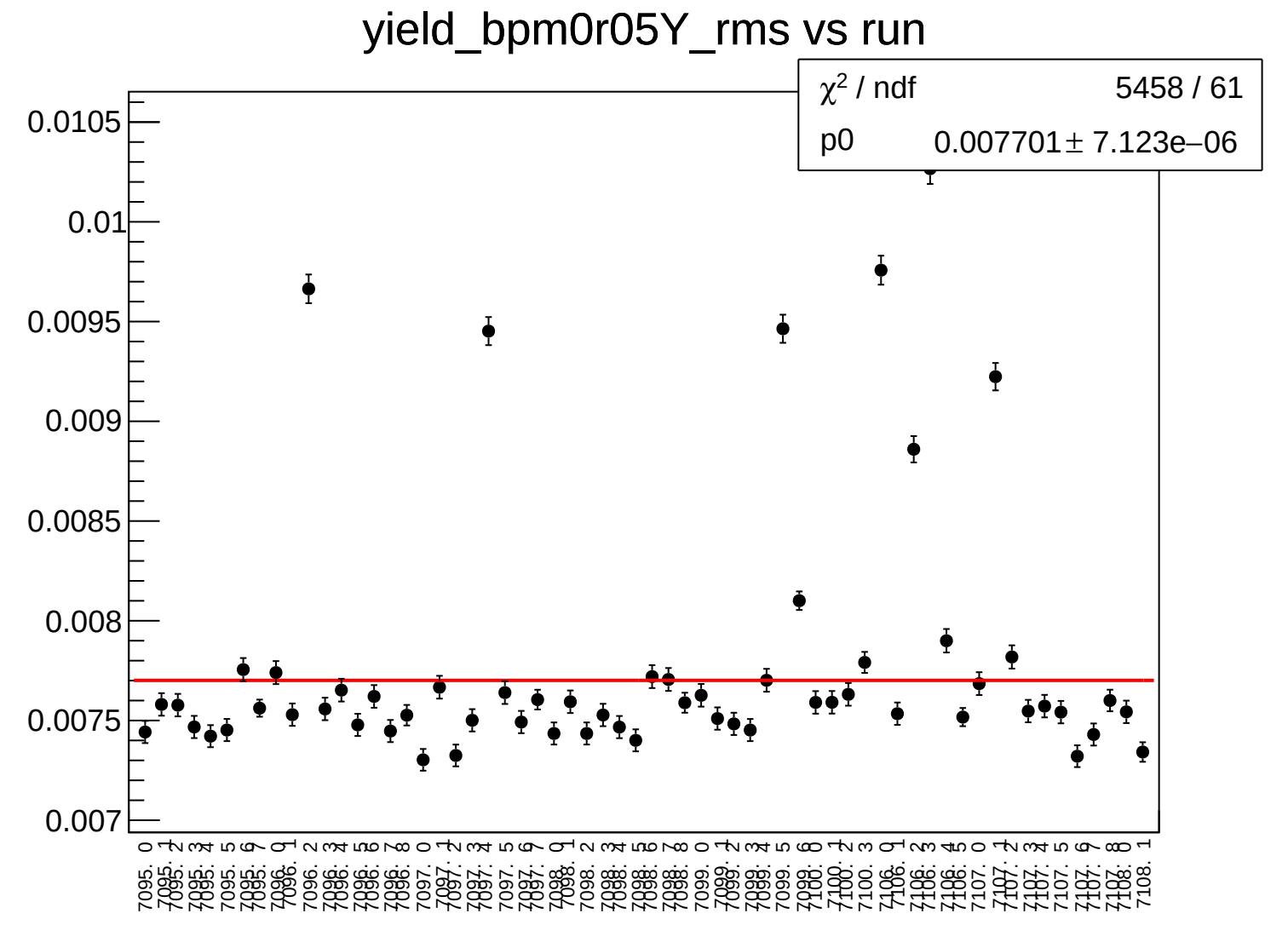

yield_bpm0r05X_mean vs run
χ² / ndf 7.204e+04 / 61
p0 −1.821 ± 0.0001175
−1.78
−1.8
−1.82
−1.84
−1.86
−1.88
−1.9
pull
Entries 62
Mean 1487
Std Dev 1454
40
20
0
−20
−40
−60
−80

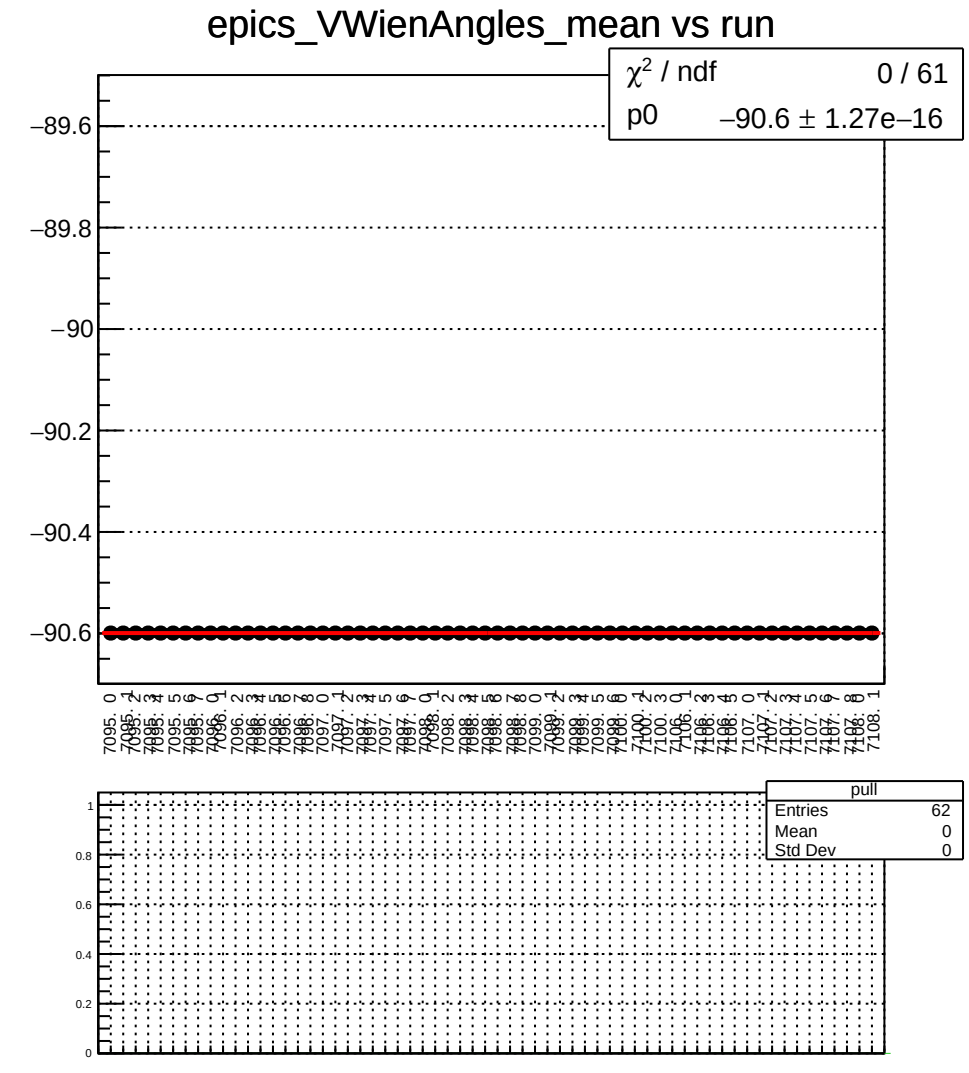

pull1D
Entries 62
Mean 4.28
Std Dev 2.366
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

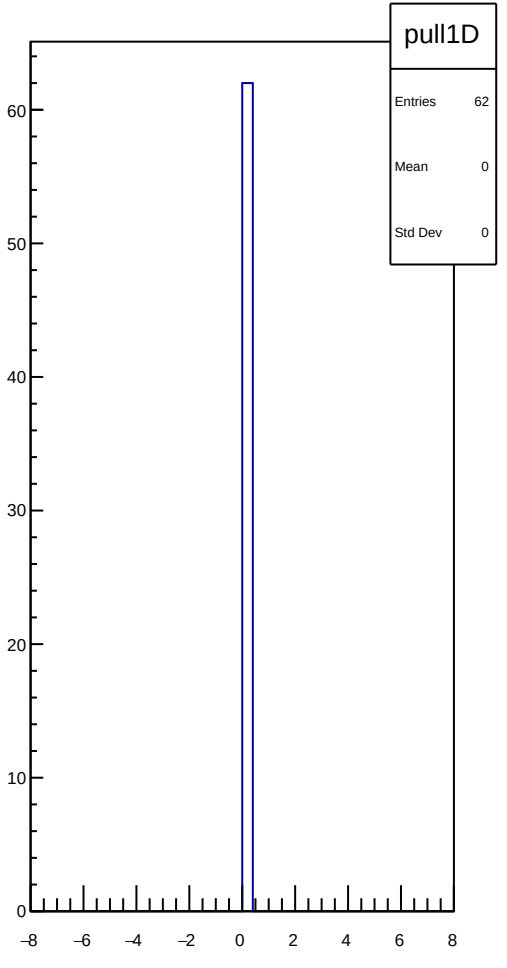

yield_bpm0r05X_rms vs run
χ² / ndf 916.2 / 61
p0 0.08998 ± 8.306e–05
0.098
0.096
0.094
0.092
0.09
0.088
0.086
0.084

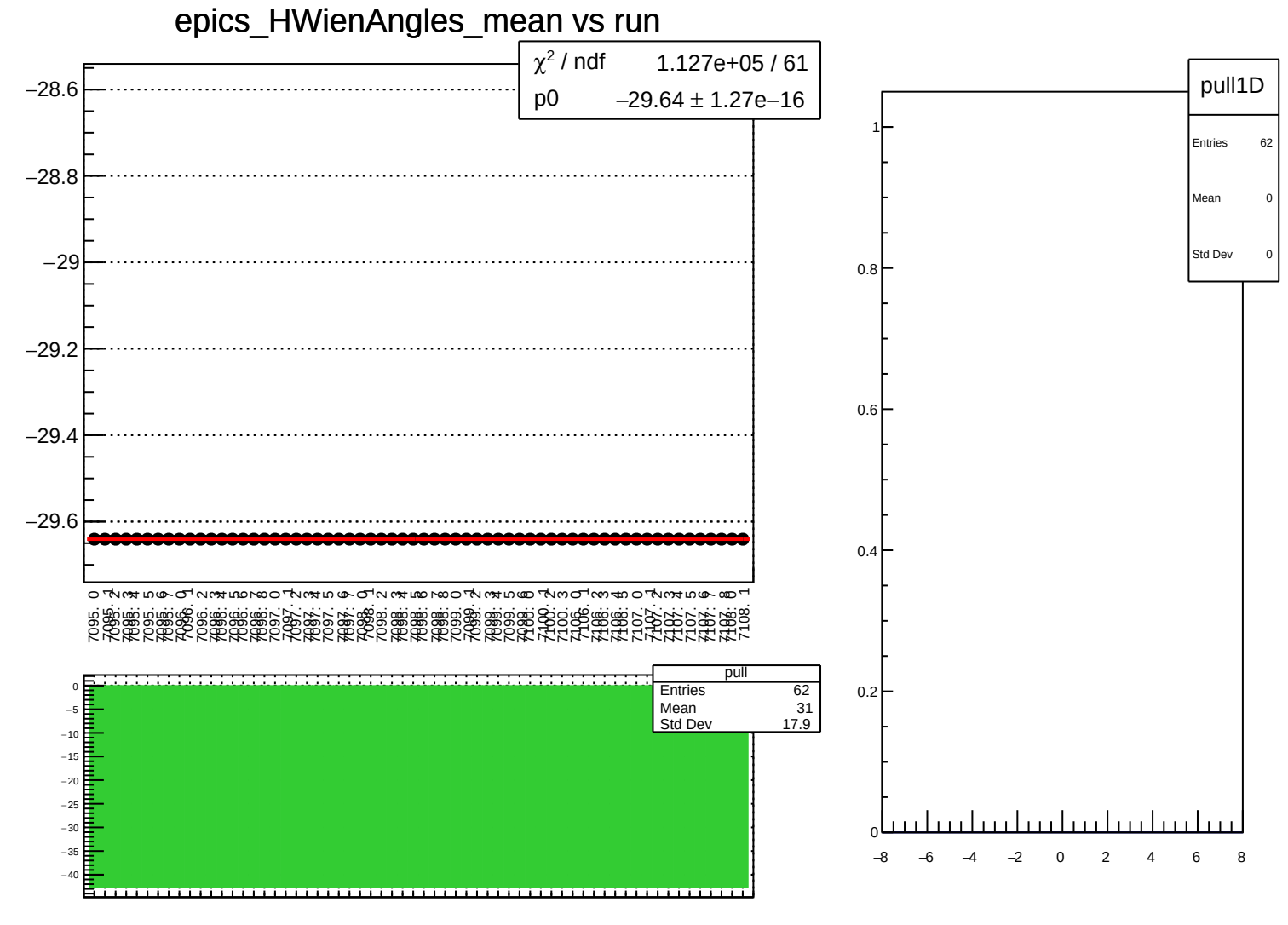

yield_bpm0r05Y_mean vs run
χ² / ndf 8.4e+05 / 61
p0 1.457 ± 1.007e−05
1.48
1.475
1.47
1.465
1.46
1.455
1.45
1.445
1.44
pull
Entries 62
Mean −262.5
Std Dev 298.7
300
200
100
0
−100
−200

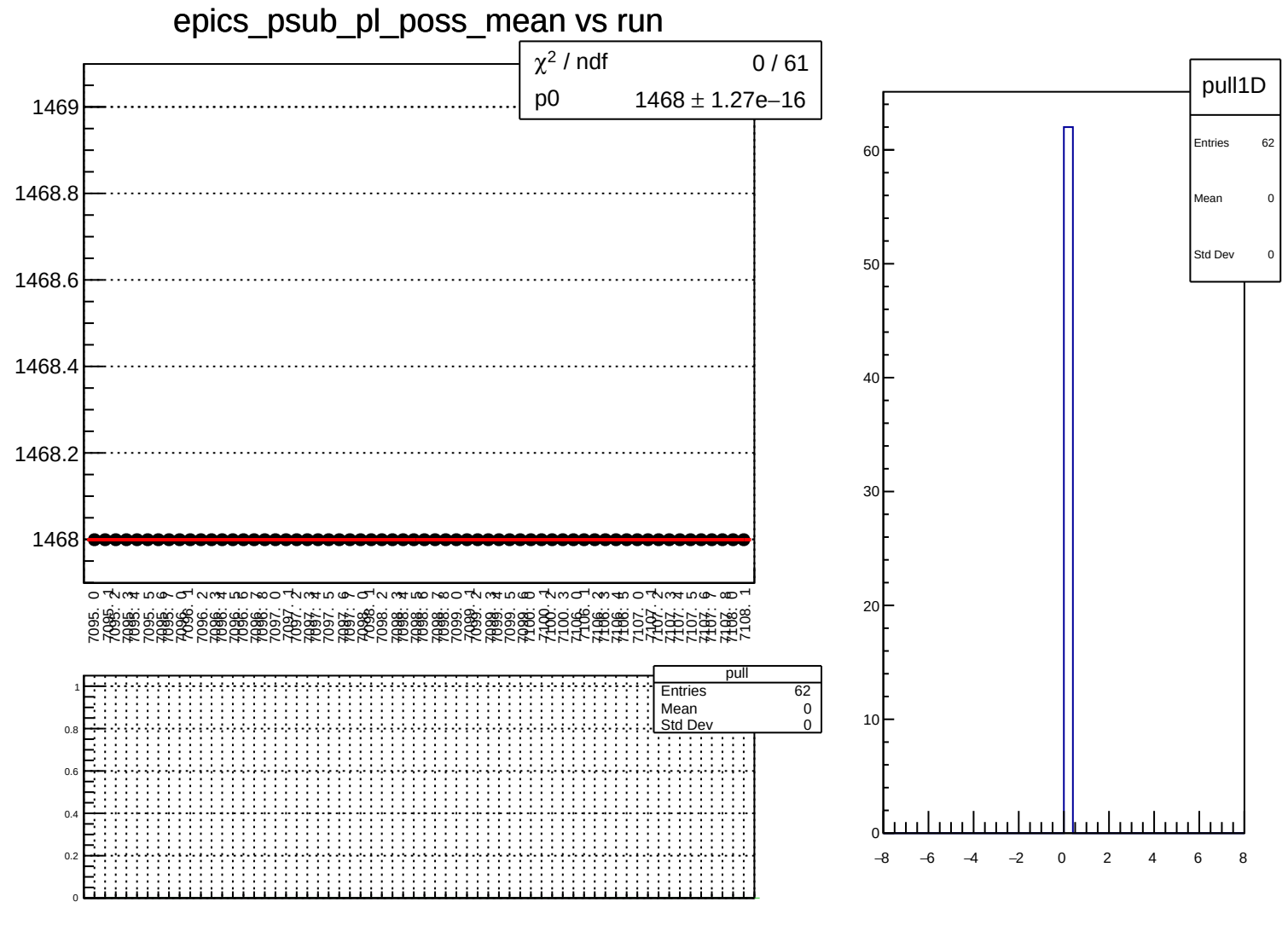

pull1D
Entries 62
Mean 2.612
Std Dev 4.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

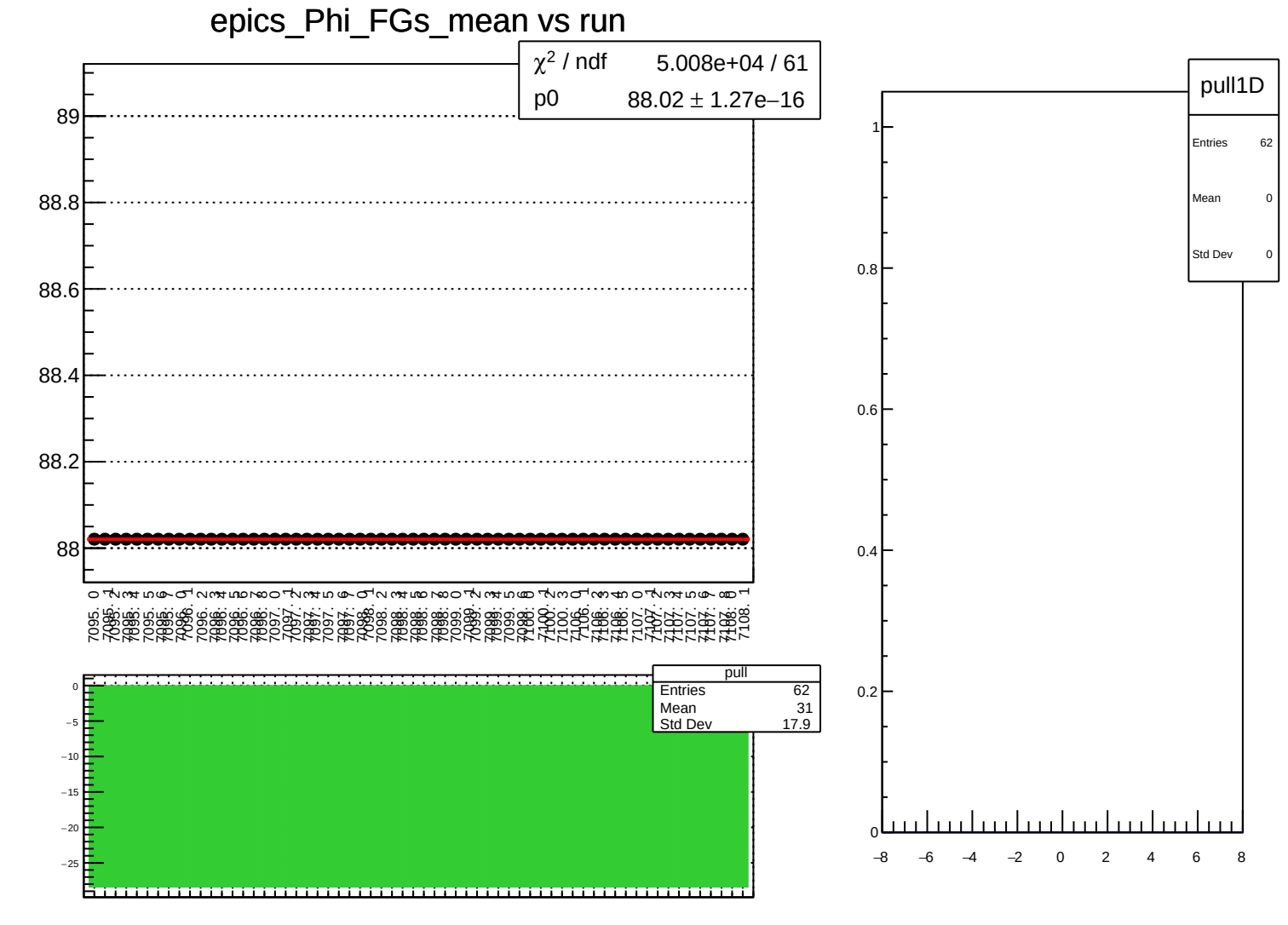

yield_bpm0r05Y_rms vs run
χ² / ndf 5458 / 61
p0 0.007701 ± 7.123e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

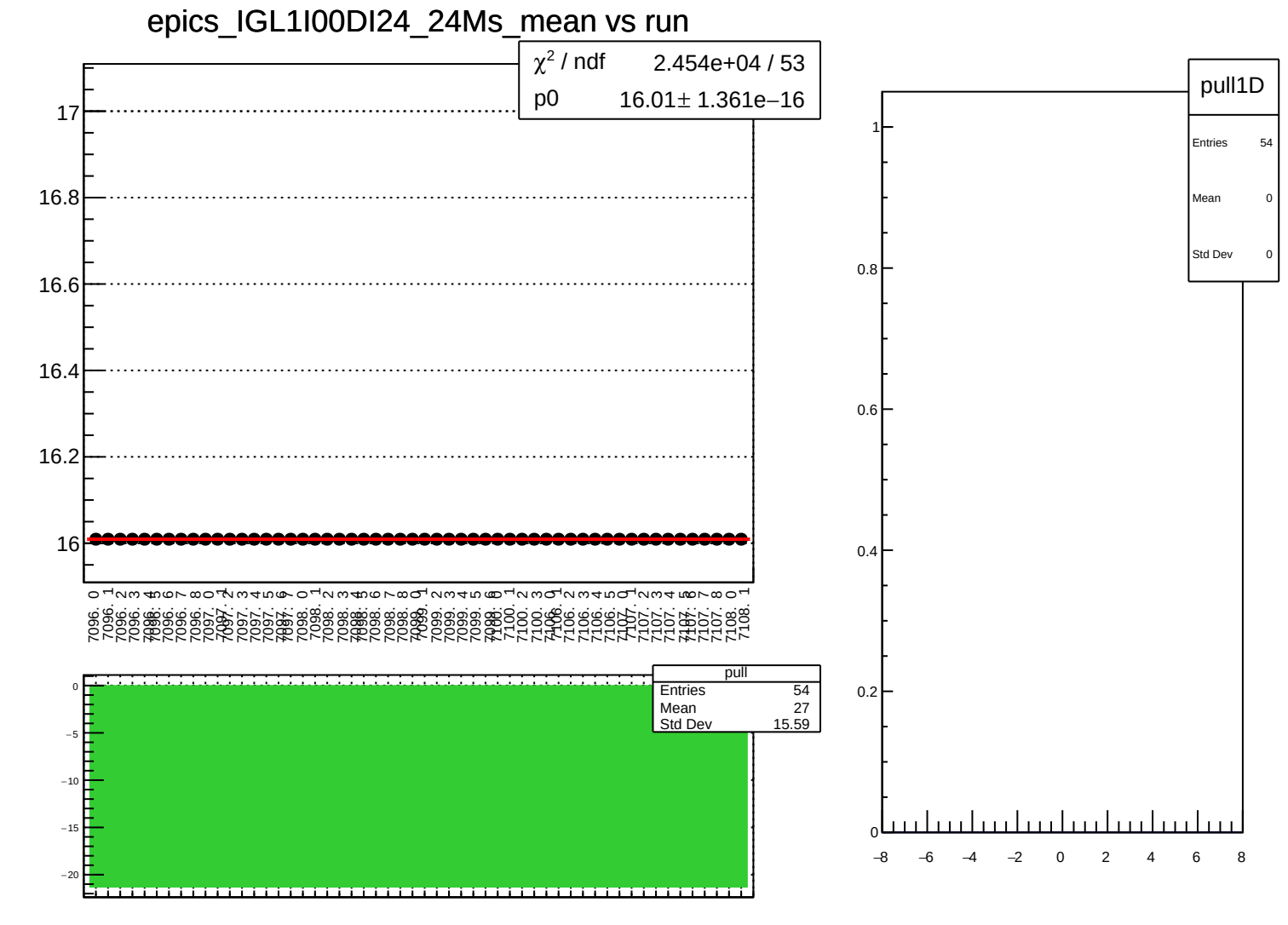

epics_VWienAngles_mean vs run
χ² / ndf 0 / 61
p0 −90.6 ± 1.27e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0

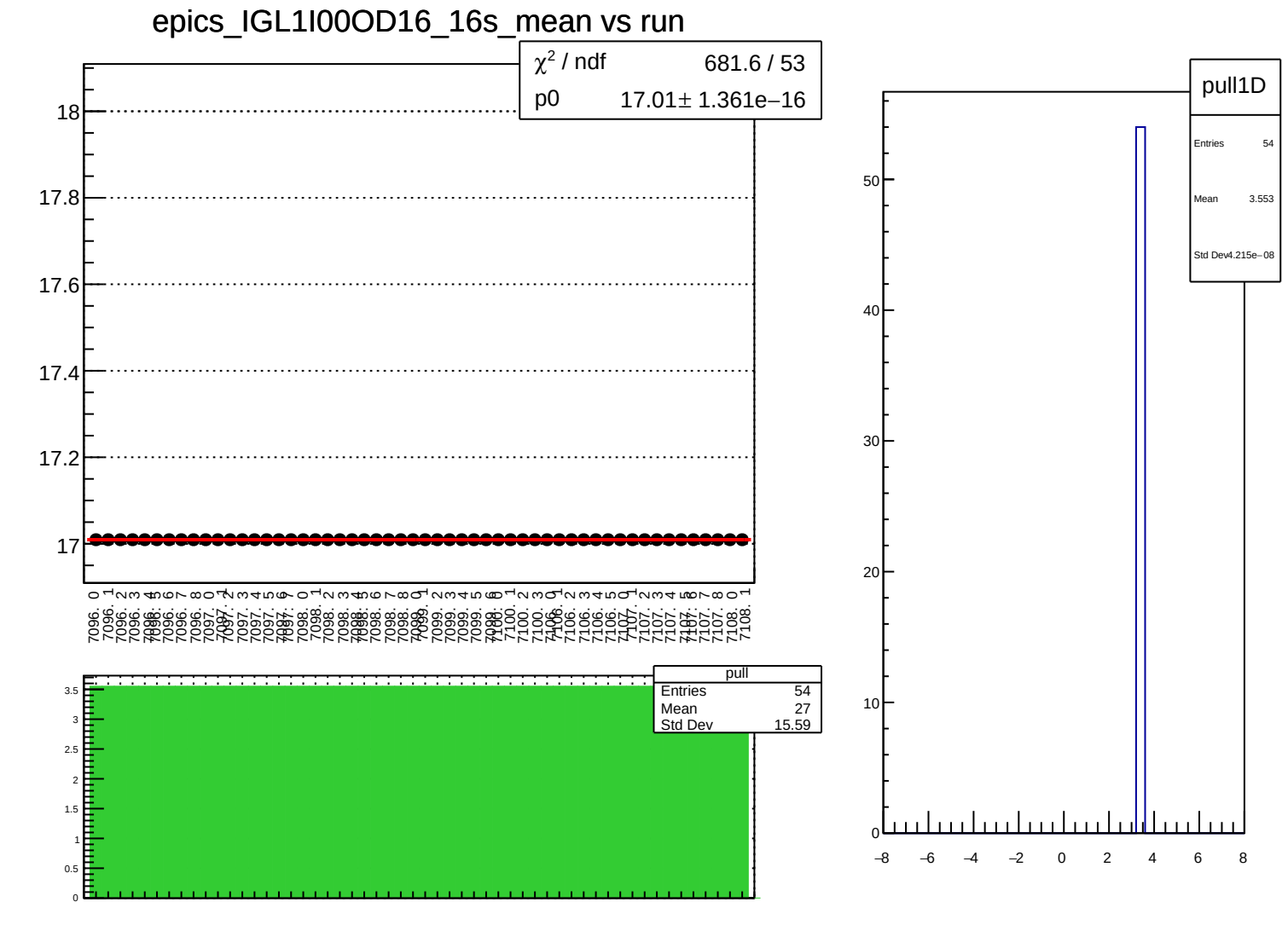

pull1D
Entries 62
Mean 0
Std Dev 0
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

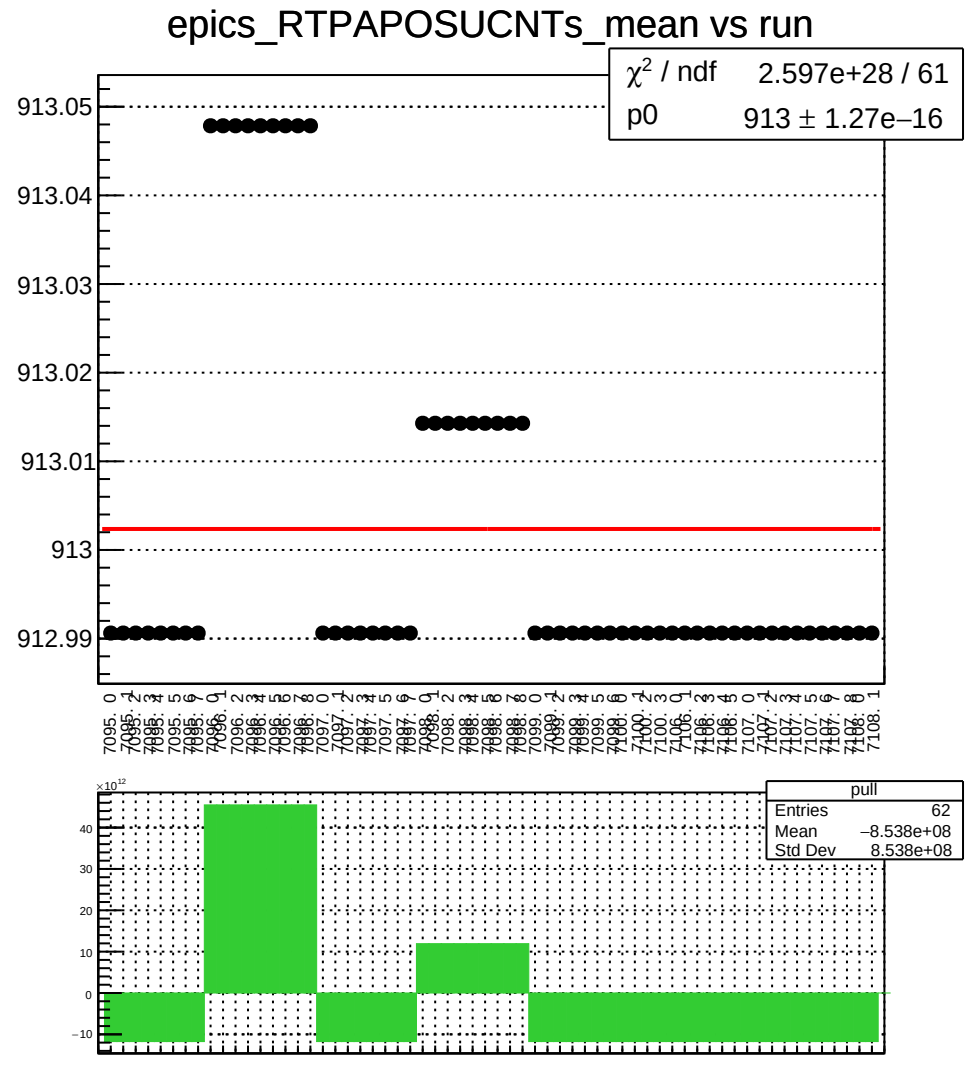

epics_HWienAngles_mean vs run
χ² / ndf 1.127e+05 / 61
p0 −29.64 ± 1.27e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 62
Mean 31
Std Dev 17.9
pull1D
Entries 62
Mean 0
Std Dev 0

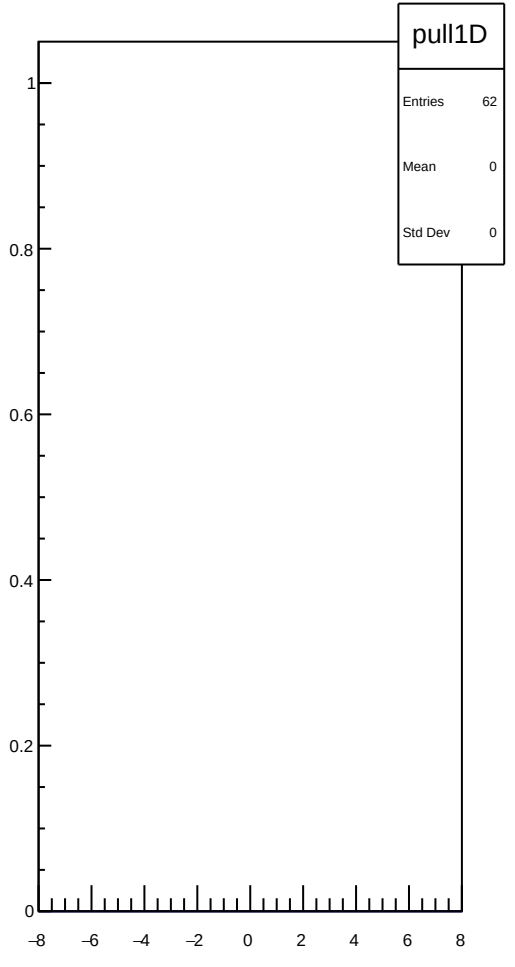

epics_psub_pl_poss_mean vs run
χ² / ndf 0 / 61
p0 1468 ± 1.27e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 62
Mean 0
Std Dev 0
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8

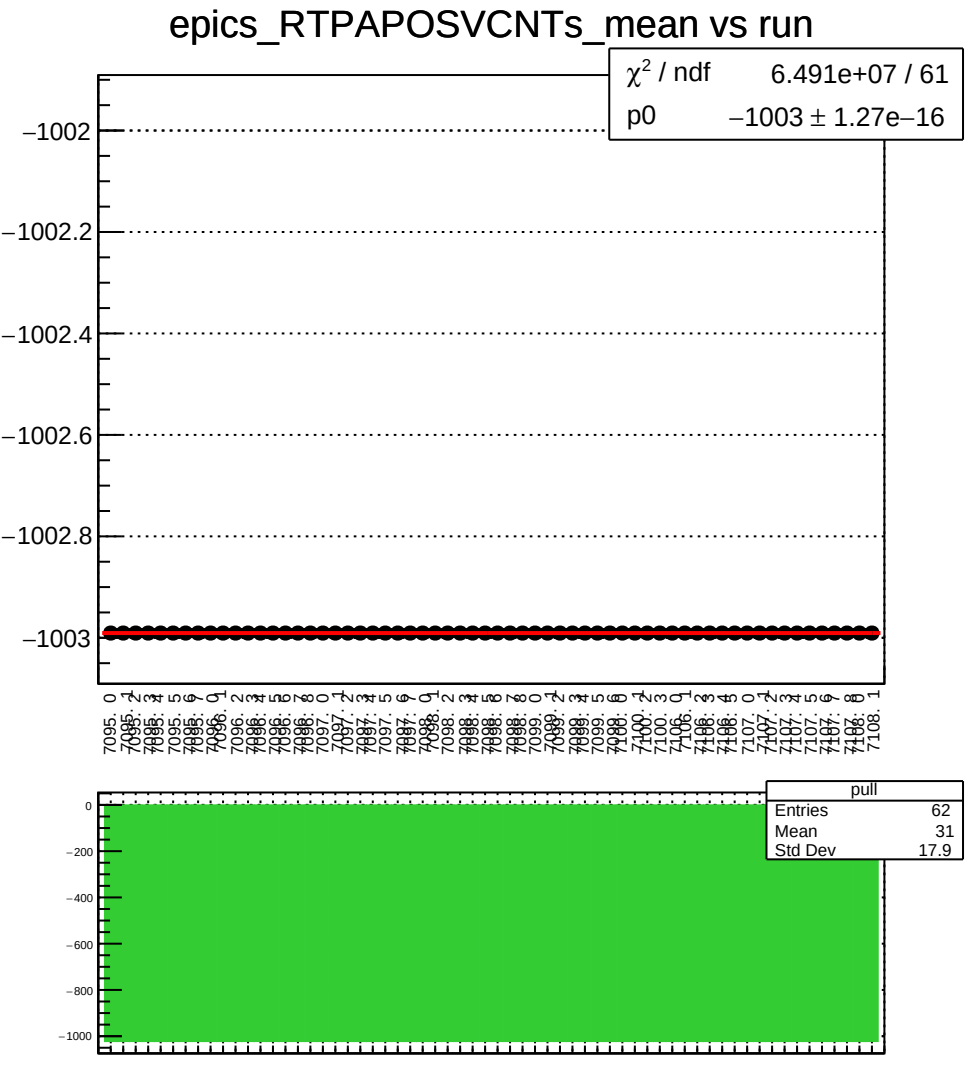

epics_Phi_FGs_mean vs run
χ² / ndf 5.008e+04 / 61
p0 88.02 ± 1.27e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 62
Mean 31
Std Dev 17.9
0
−5
−10
−15
−20
−25
pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

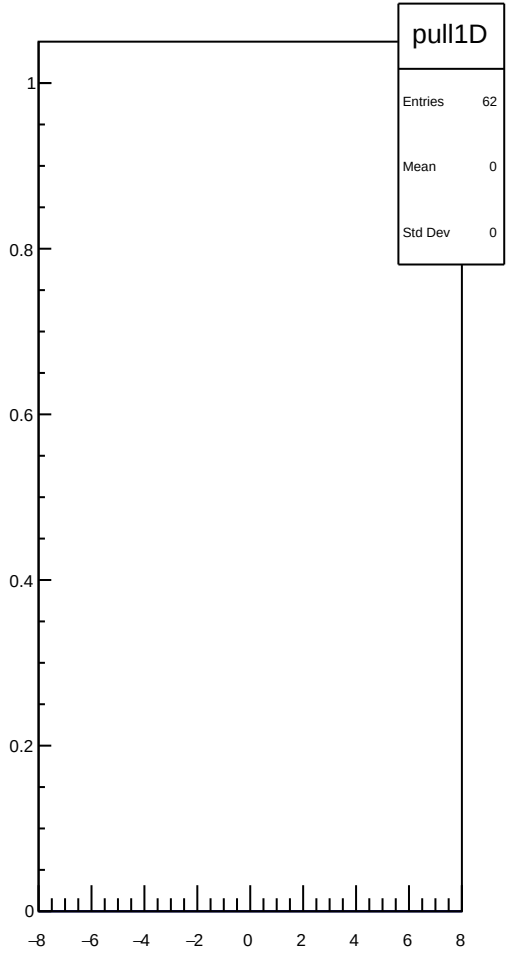

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 2.454e+04 / 53
p0 16.01± 1.361e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 54
Mean 27
Std Dev 15.59
0
−5
−10
−15
−20
pull1D
Entries 54
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 681.6 / 53
p0 17.01± 1.361e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 54
Mean 27
Std Dev 15.59
3.5
3
2.5
2
1.5
1
0.5
0
pull1D
Entries 54
Mean 3.553
Std Dev4.215e−08
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 2.597e+28 / 61
p0 913 ± 1.27e−16
913.05
913.04
913.03
913.02
913.01
913
912.99
pull
Entries 62
Mean −8.538e+08
Std Dev 8.538e+08
×10¹²
40
30
20
10
0
−10


pull1D
Entries 62
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 6.491e+07 / 61
p0 −1003 ± 1.27e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 62
Mean 31
Std Dev 17.9
0
−200
−400
−600
−800
−1000


pull1D
Entries 62
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8