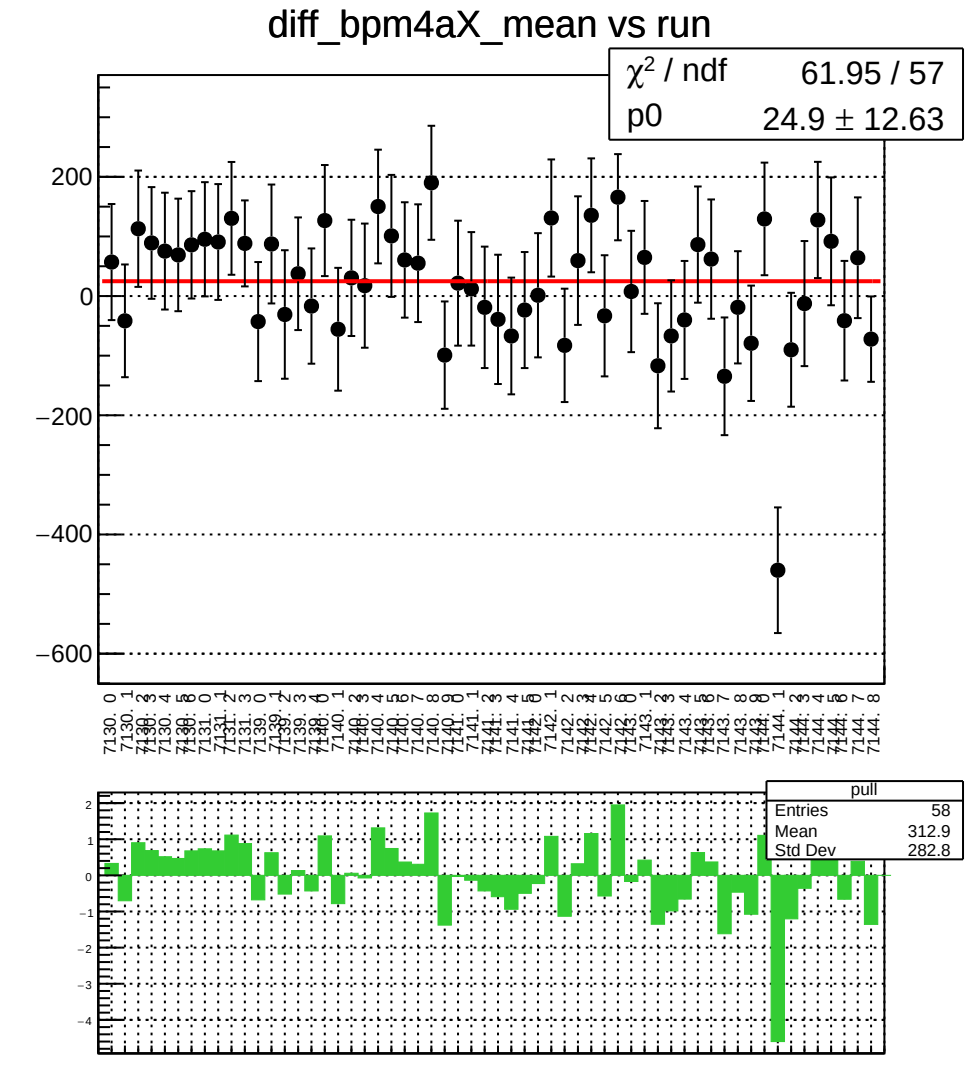
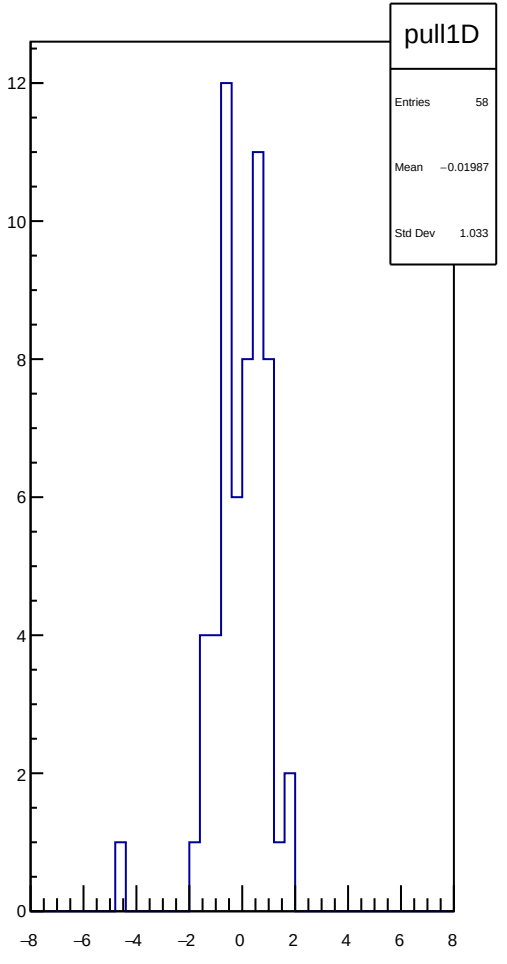
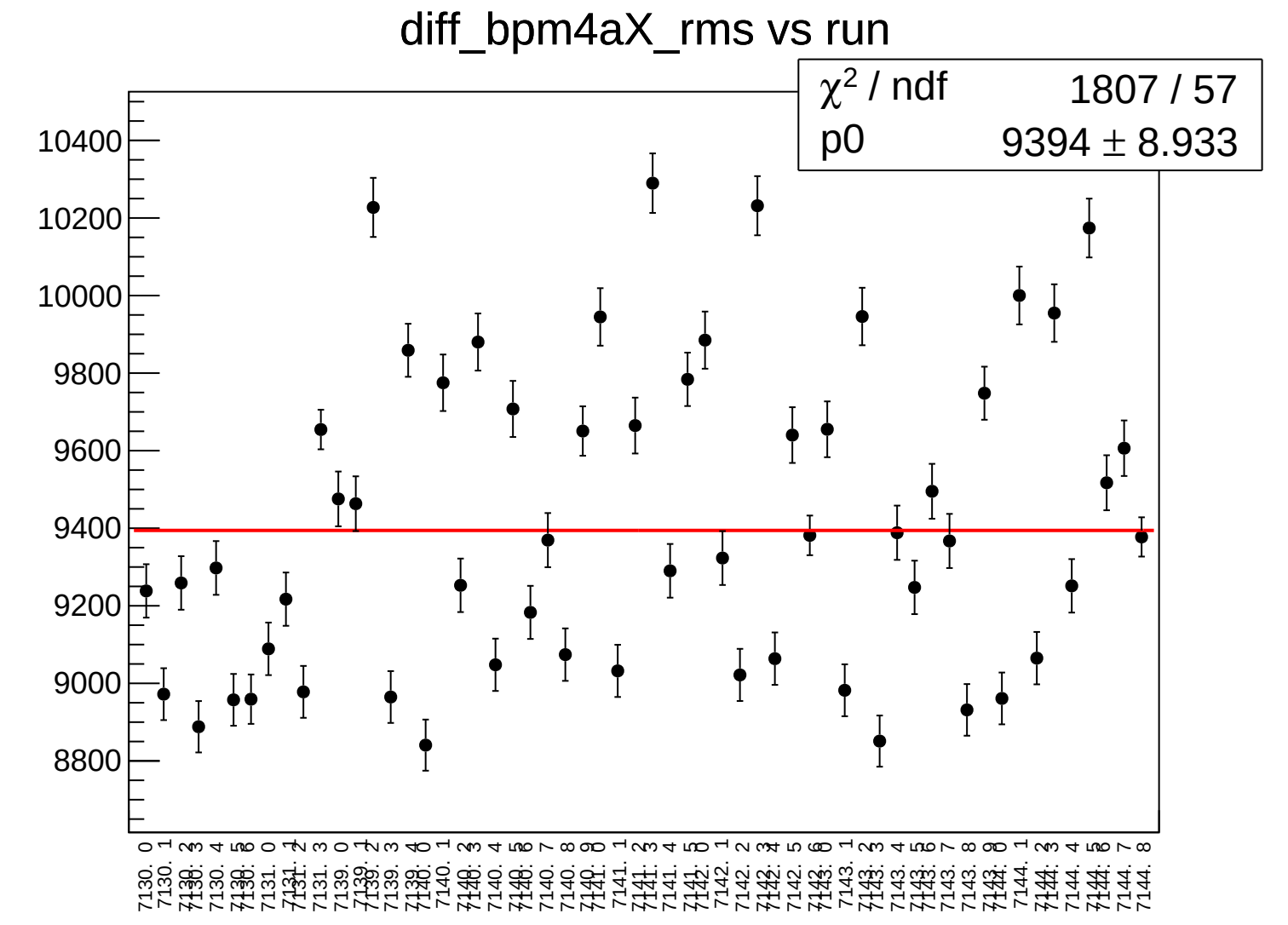
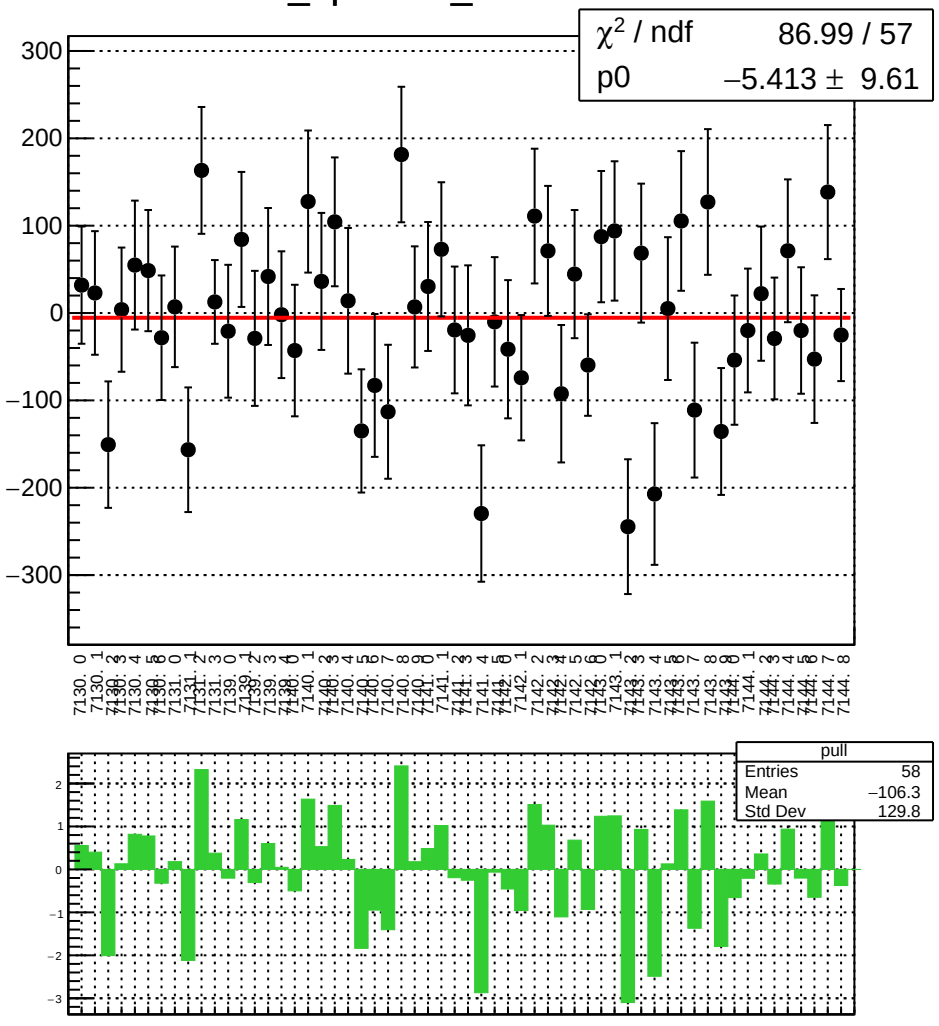
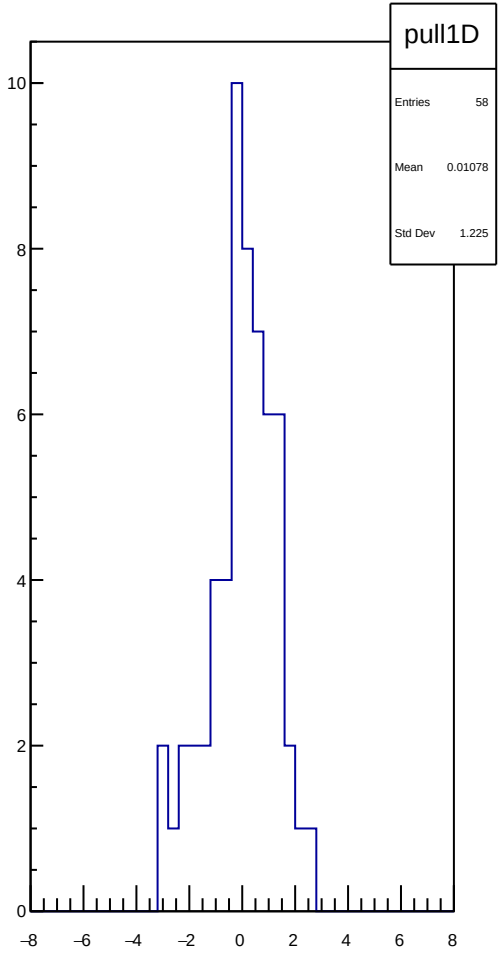
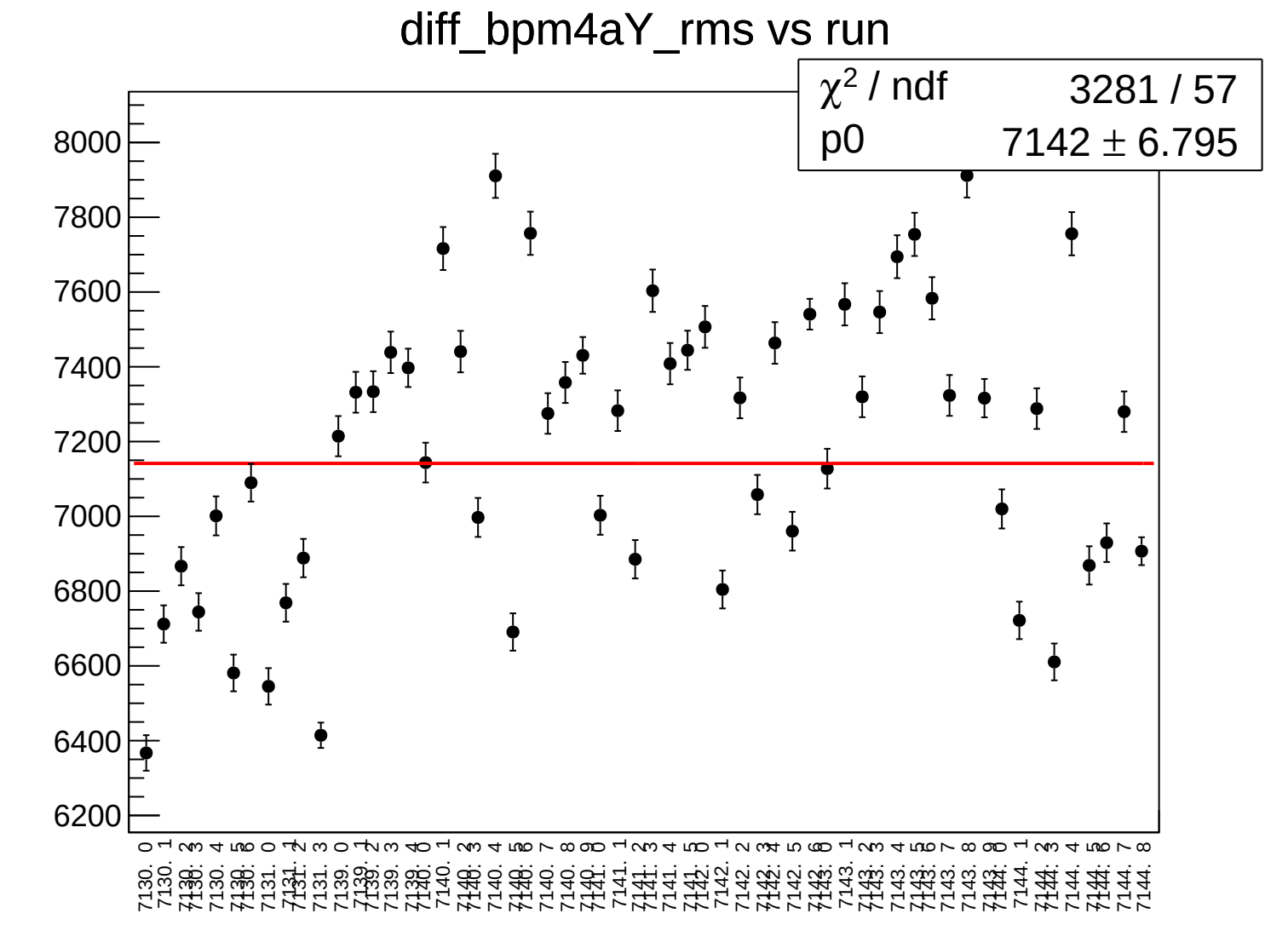

diff_bpm4aX_mean vs run
χ² / ndf 61.95 / 57
p0 24.9 ± 12.63
200
0
−200
−400
−600
pull
Entries 58
Mean 312.9
Std Dev 282.8
2
1
0
−1
−2
−3
−4

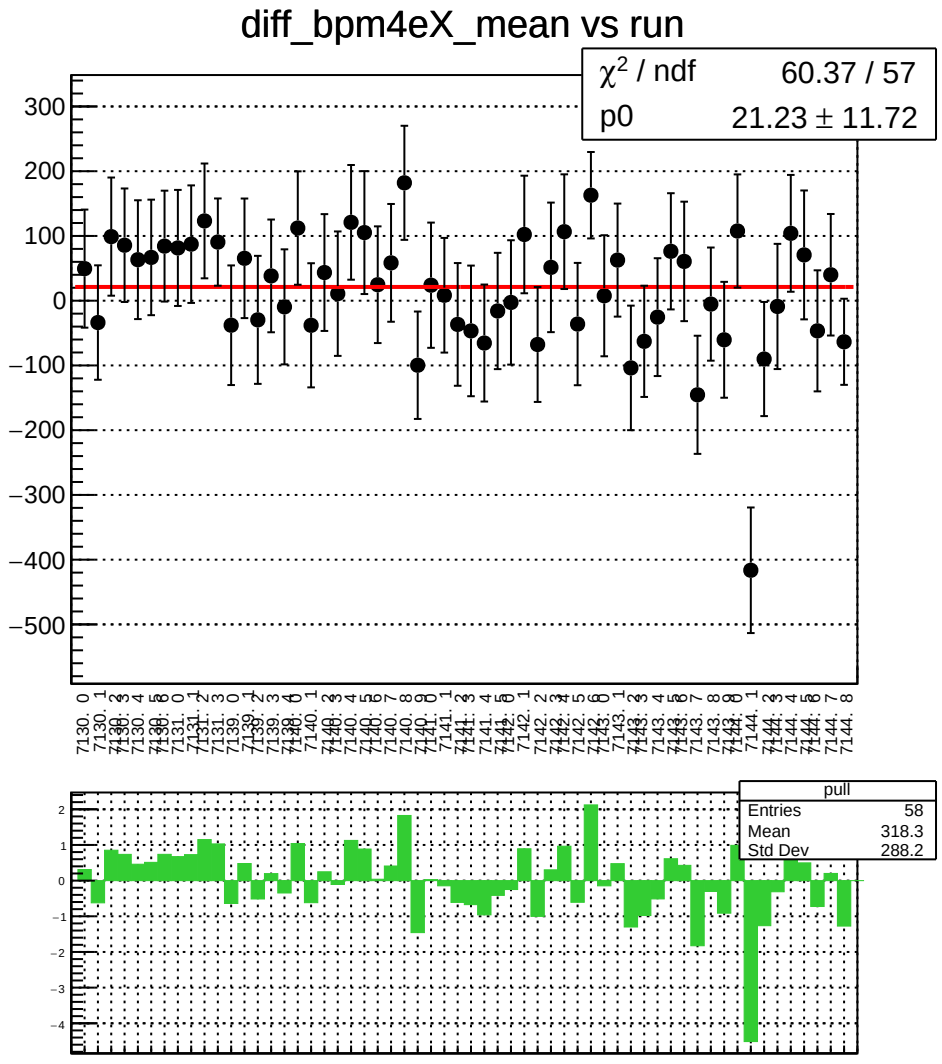

pull1D
Entries 58
Mean −0.01987
Std Dev 1.033
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

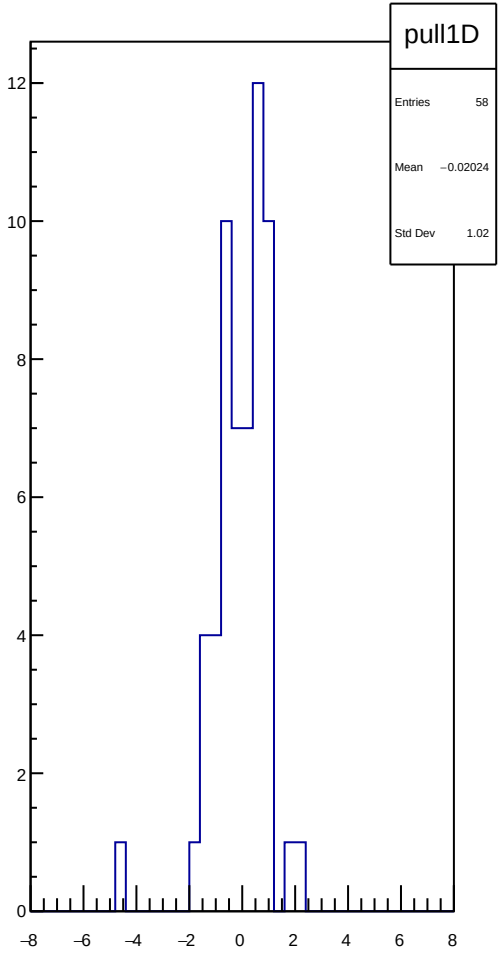

diff_bpm4aX_rms vs run
χ² / ndf 1807 / 57
p0 9394 ± 8.933
10400
10200
10000
9800
9600
9400
9200
9000
8800

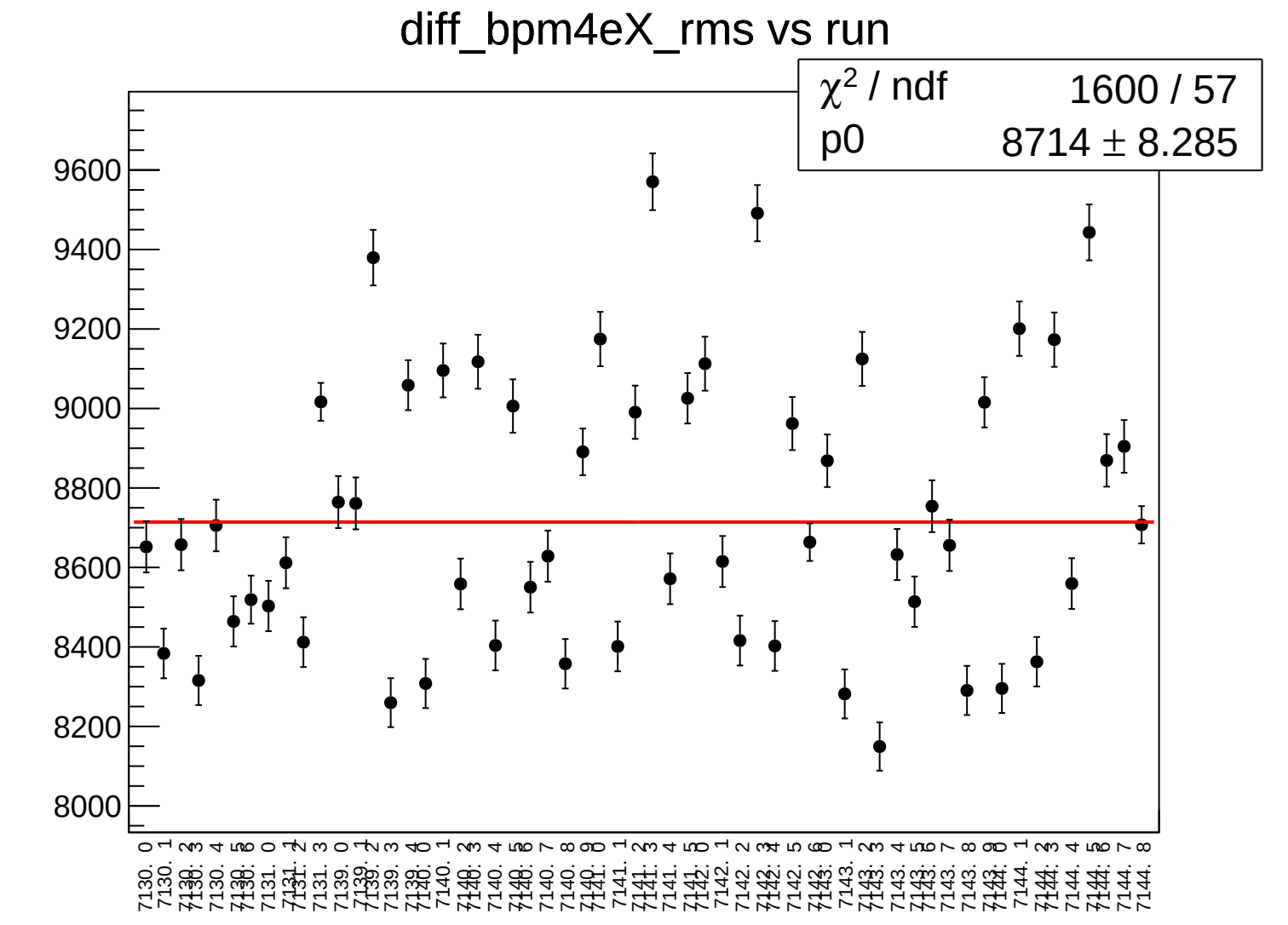

diff_bpm4aY_mean vs run
χ² / ndf 86.99 / 57
p0 −5.413 ± 9.61
pull
Entries 58
Mean −106.3
Std Dev 129.8

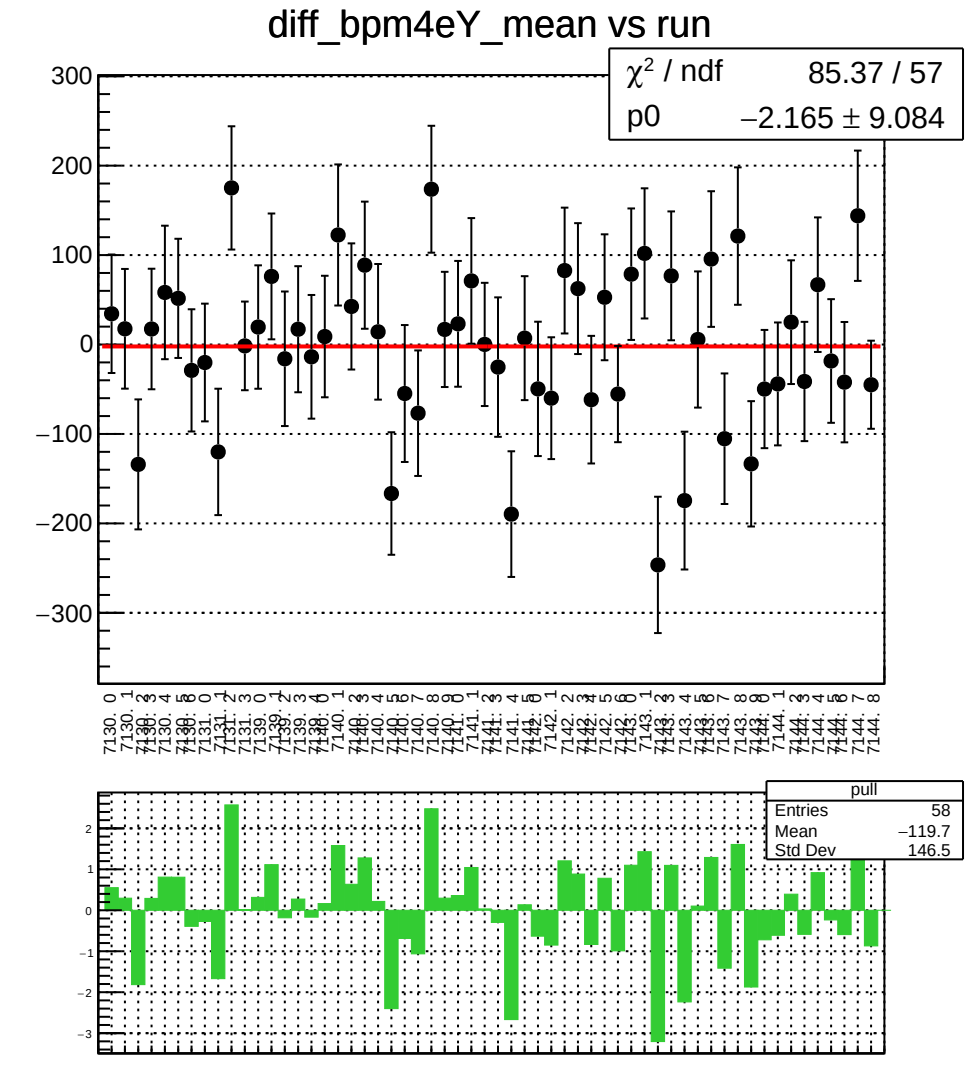

pull1D
Entries 58
Mean 0.01078
Std Dev 1.225

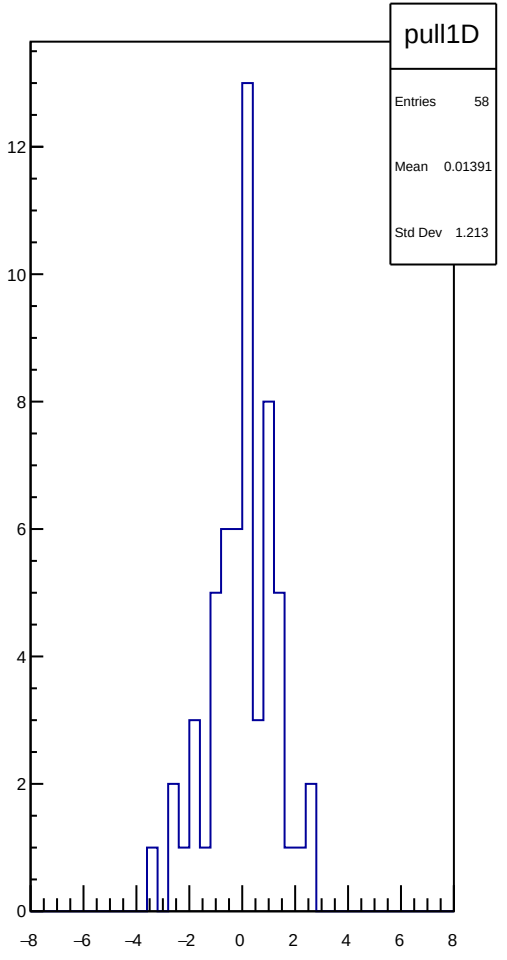

diff_bpm4aY_rms vs run
χ² / ndf 3281 / 57
p0 7142 ± 6.795
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

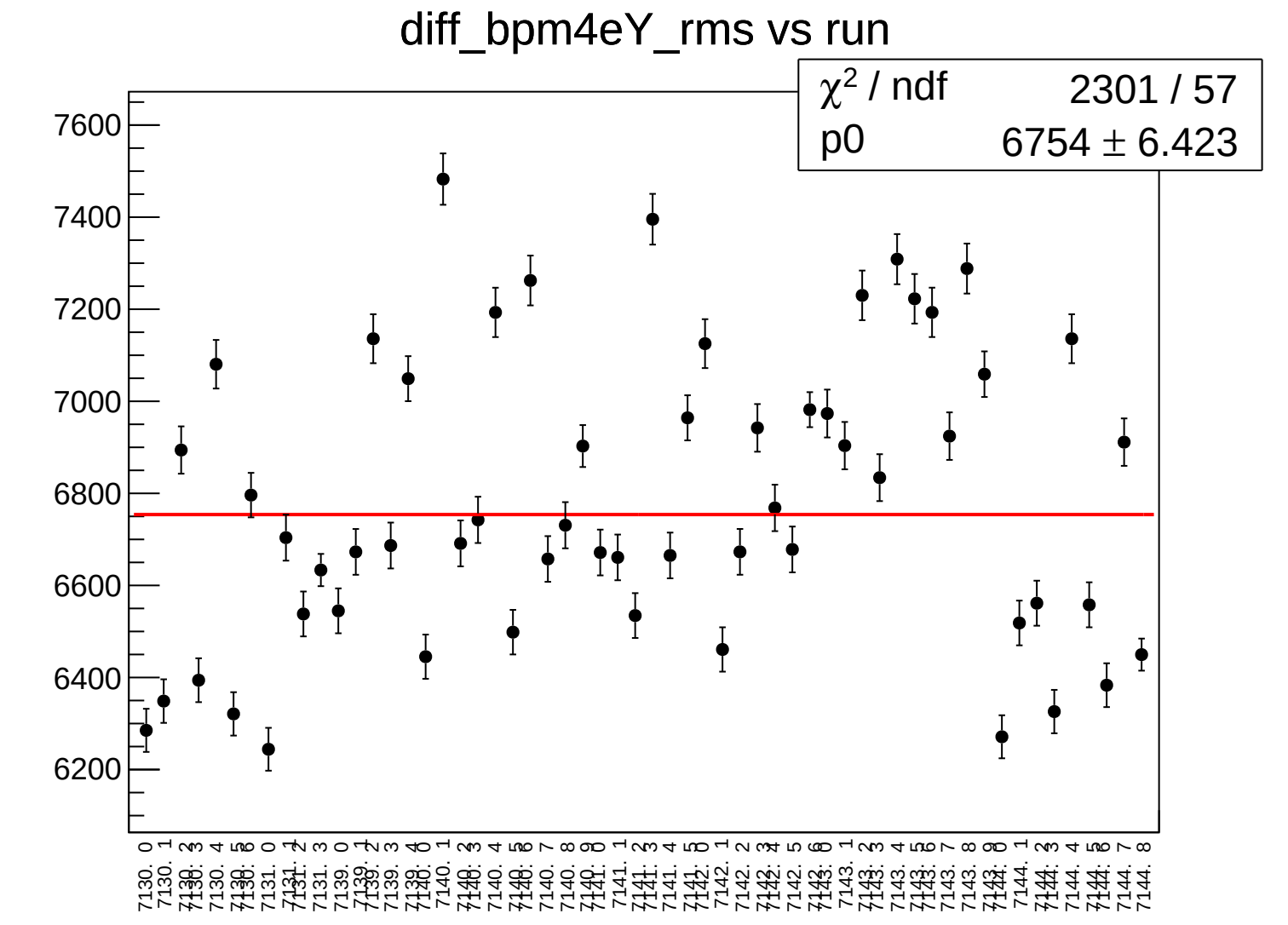

diff_bpm4eX_mean vs run
χ^2 / ndf 60.37 / 57
p0 21.23 ± 11.72
pull
Entries 58
Mean 318.3
Std Dev 288.2

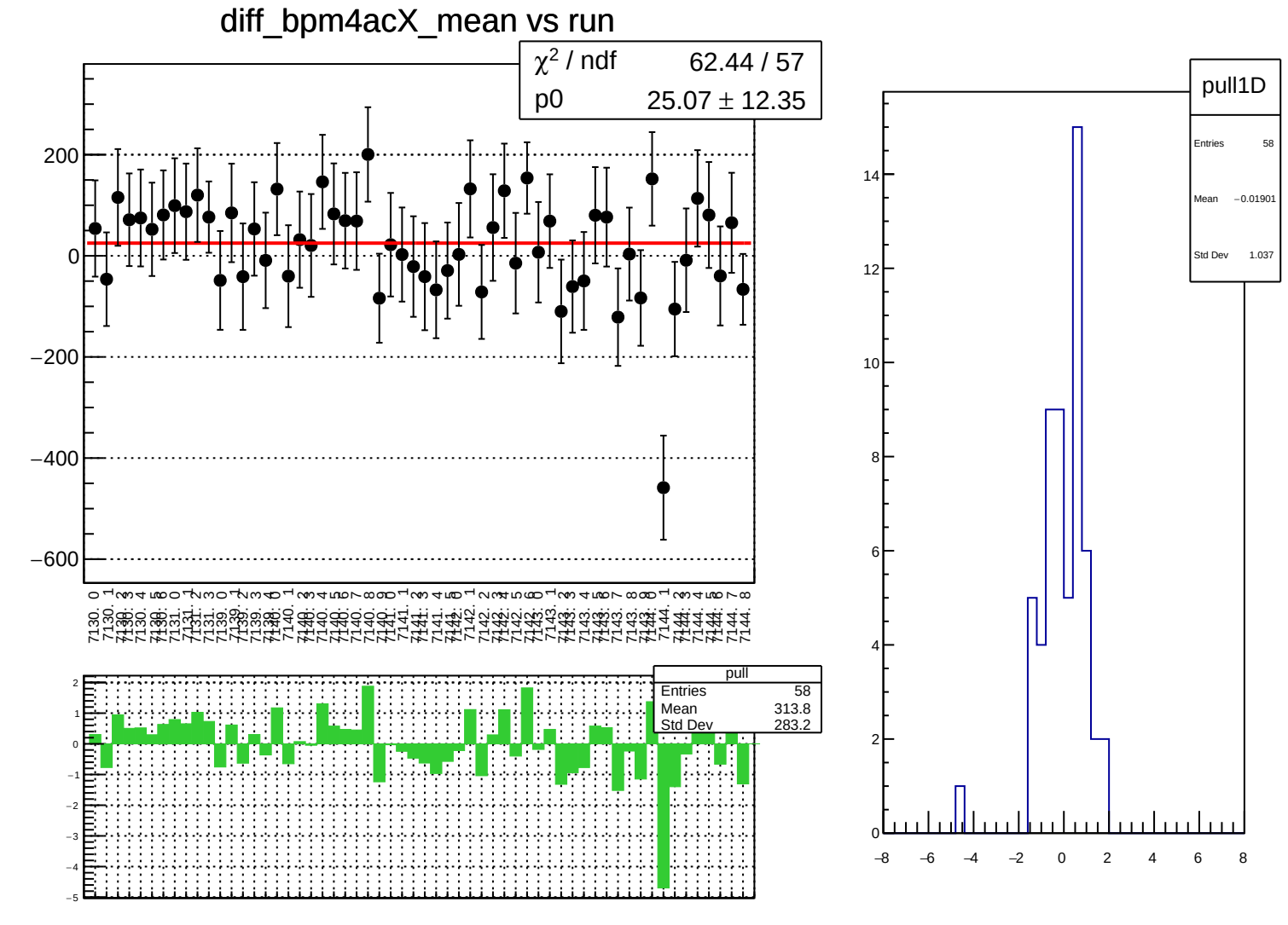

pull1D
Entries 58
Mean −0.02024
Std Dev 1.02

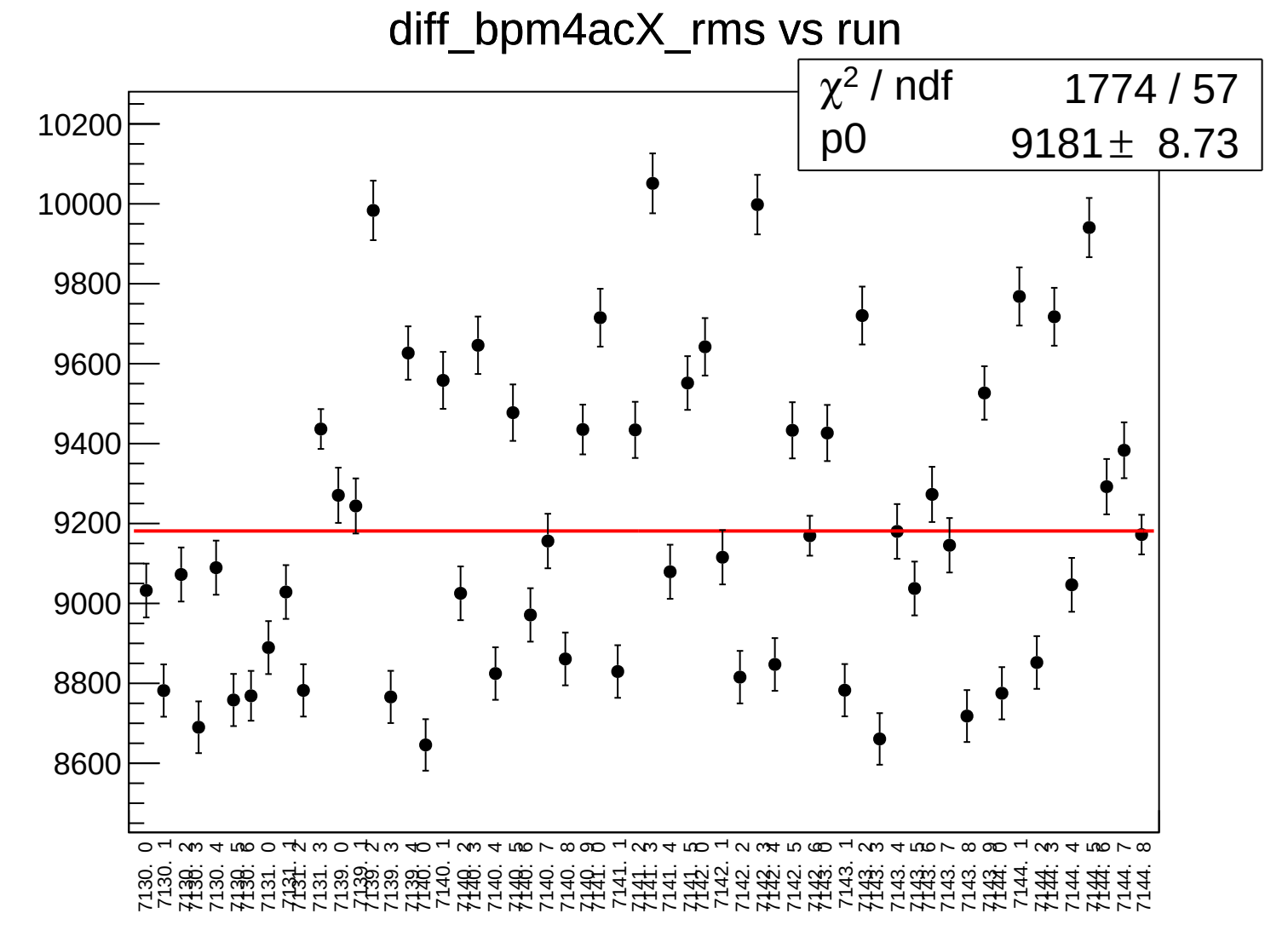

diff_bpm4eX_rms vs run
χ² / ndf 1600 / 57
p0 8714 ± 8.285
9600
9400
9200
9000
8800
8600
8400
8200
8000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

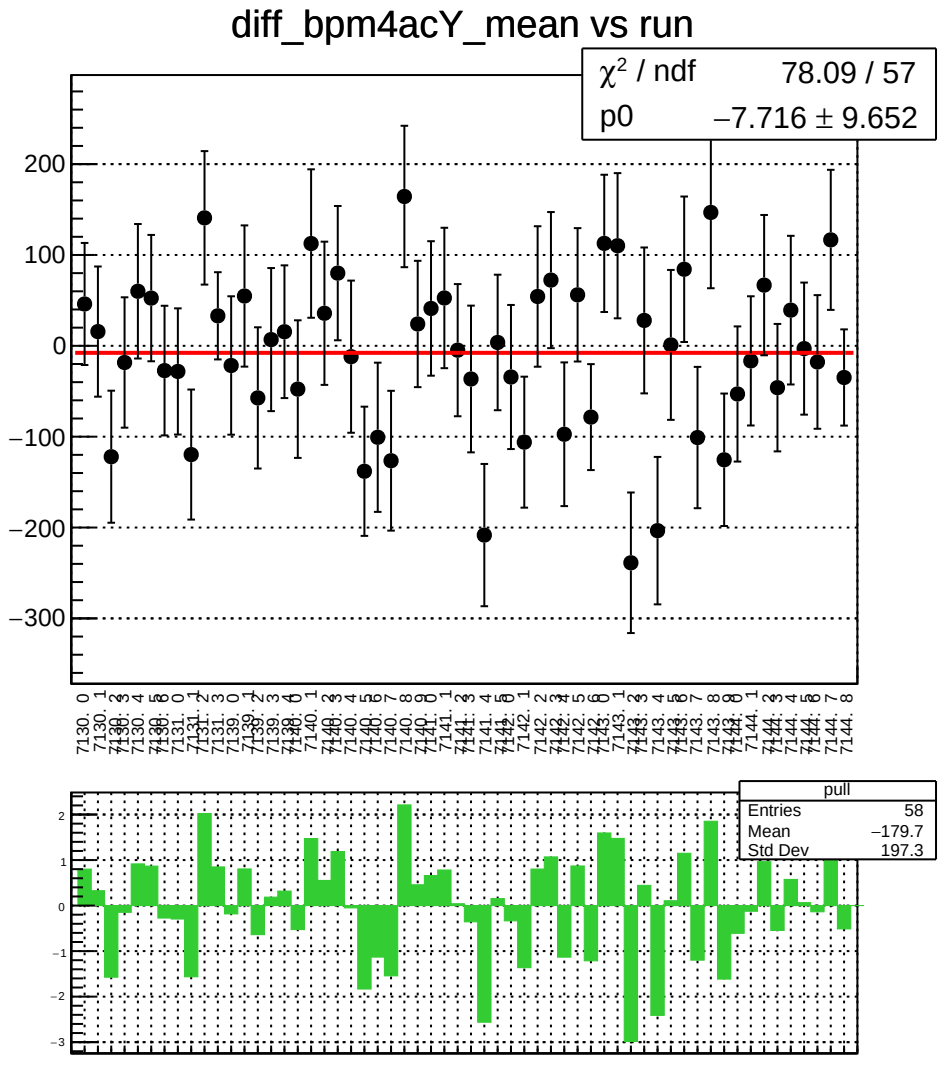

diff_bpm4eY_mean vs run
χ² / ndf 85.37 / 57
p0 −2.165 ± 9.084
pull
Entries 58
Mean −119.7
Std Dev 146.5

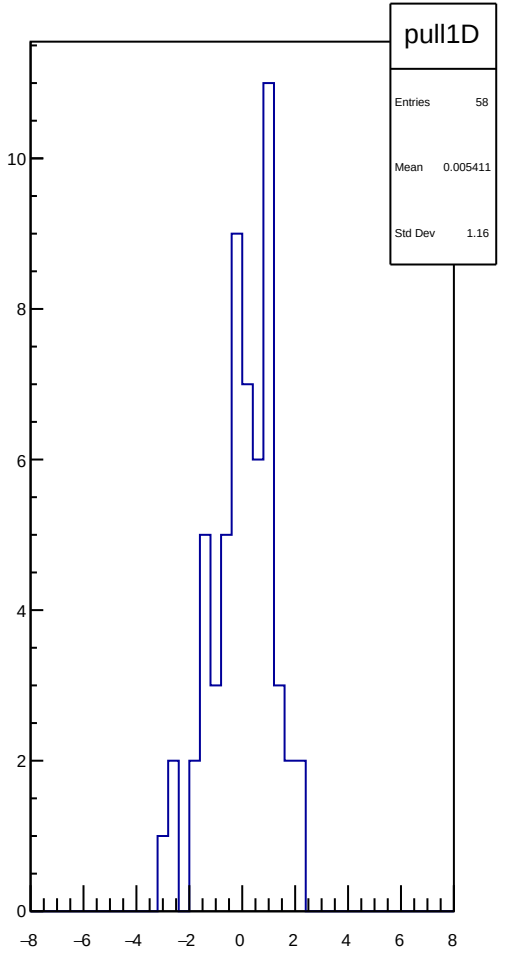

pull1D
Entries 58
Mean 0.01391
Std Dev 1.213

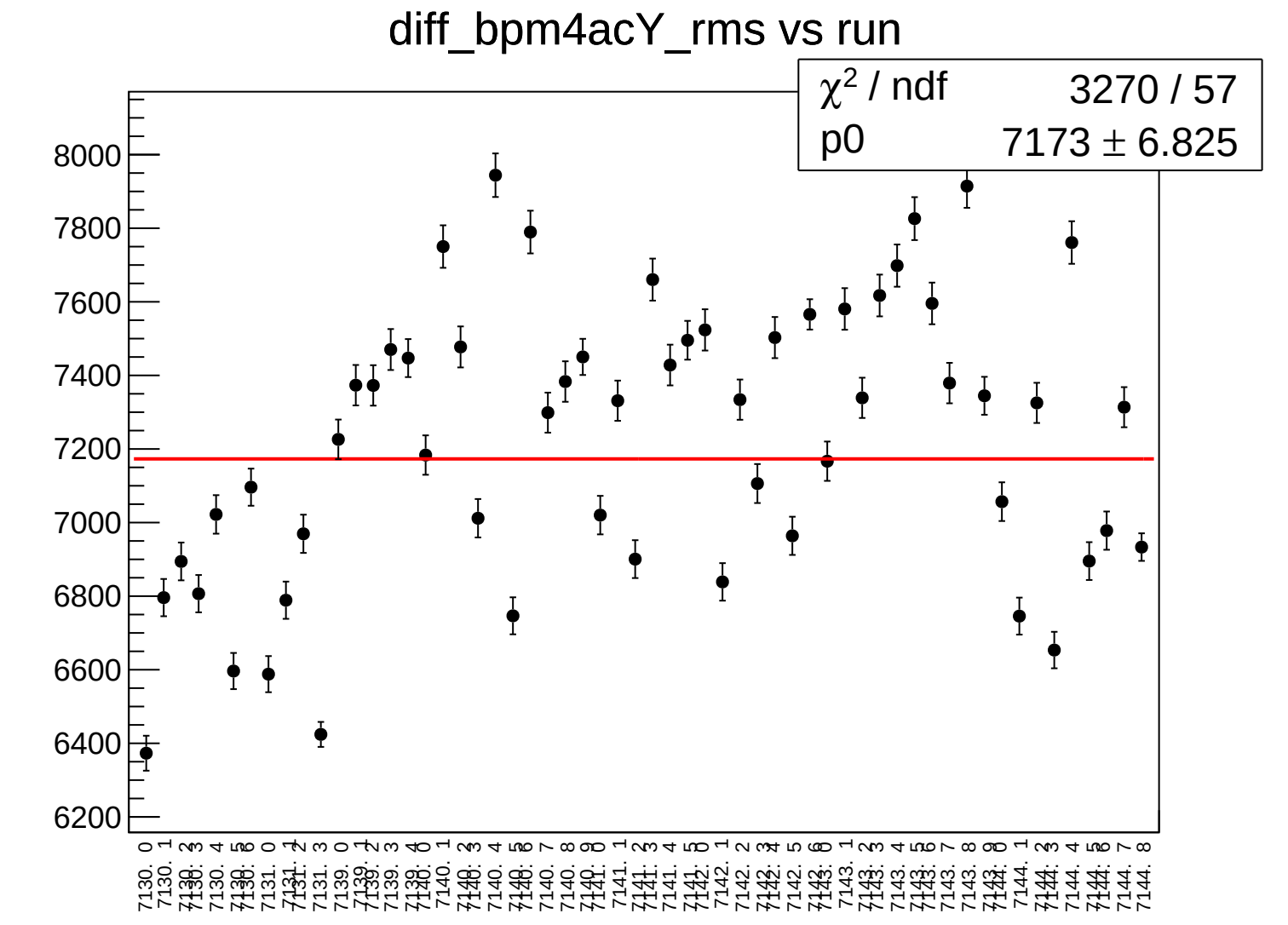

diff_bpm4eY_rms vs run
χ² / ndf 2301 / 57
p0 6754 ± 6.423
7600
7400
7200
7000
6800
6600
6400
6200

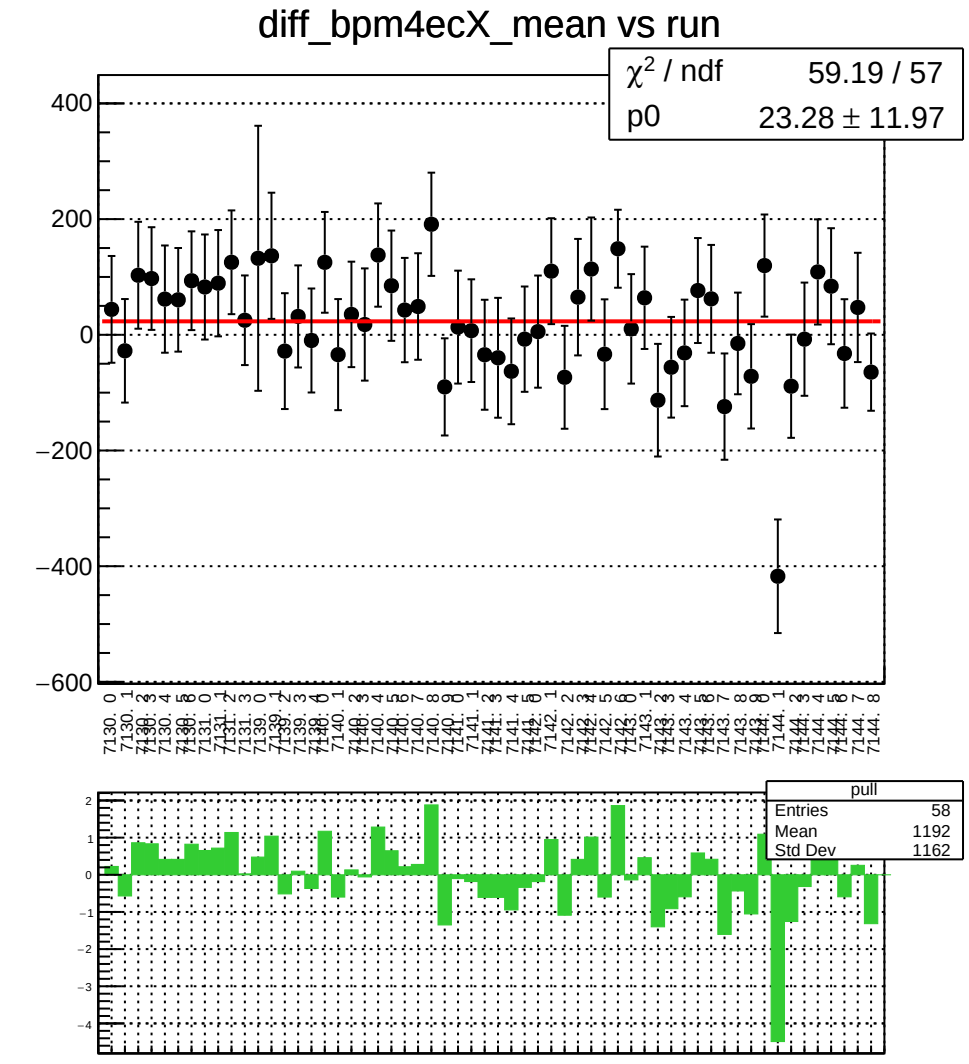

diff_bpm4acX_mean vs run
χ² / ndf 62.44 / 57
p0 25.07 ± 12.35
pull
Entries 58
Mean 313.8
Std Dev 283.2
pull1D
Entries 58
Mean −0.01901
Std Dev 1.037

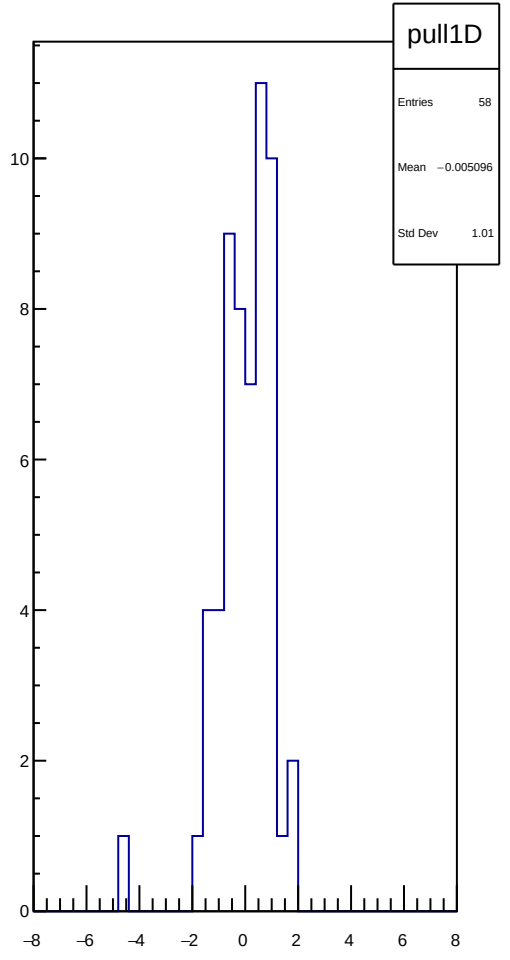

diff_bpm4acX_rms vs run
χ² / ndf 1774 / 57
p0 9181 ± 8.73
10200
10000
9800
9600
9400
9200
9000
8800
8600

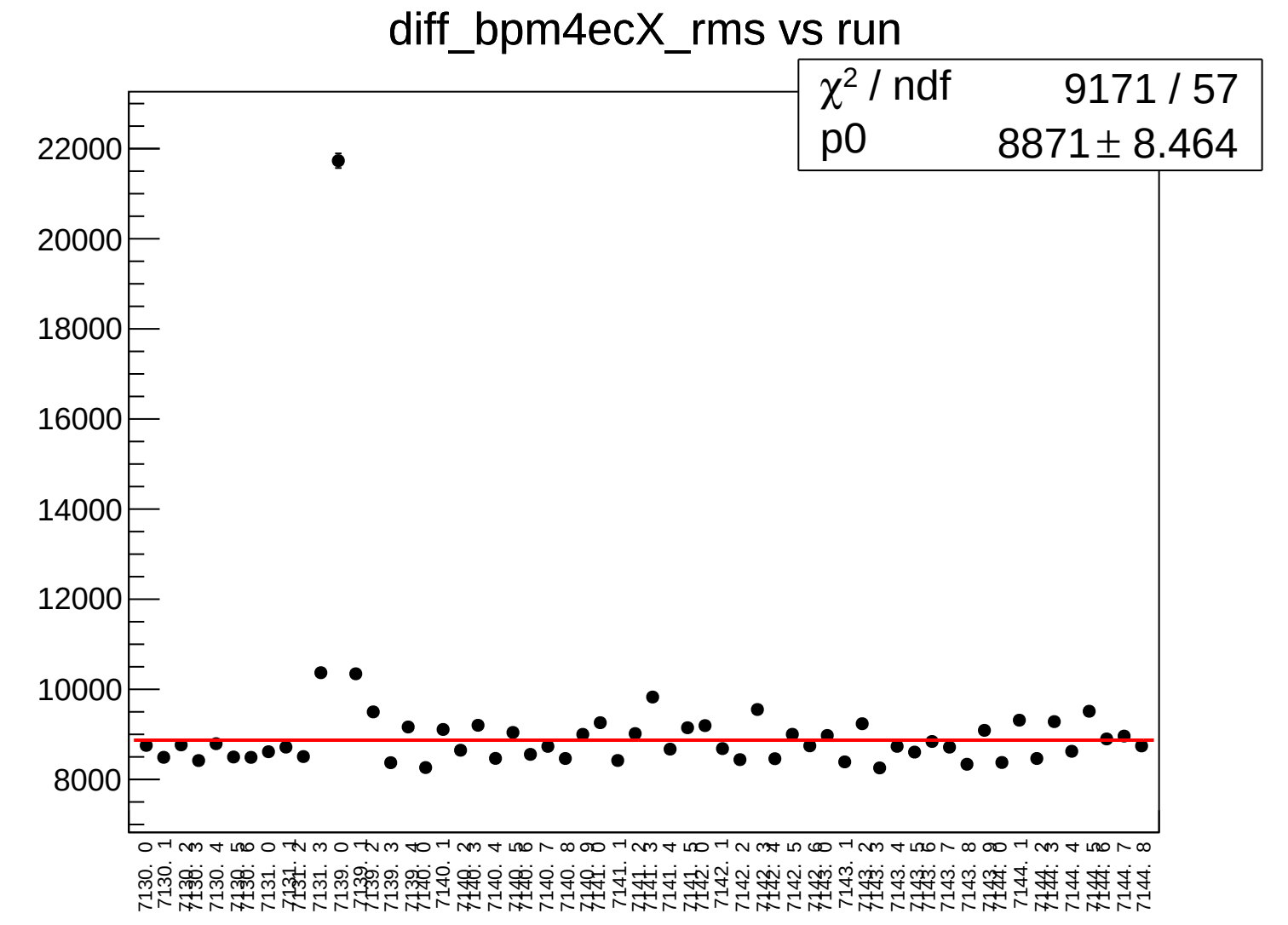

diff_bpm4acY_mean vs run
χ² / ndf 78.09 / 57
p0 −7.716 ± 9.652
200
100
0
−100
−200
−300
pull
Entries 58
Mean −179.7
Std Dev 197.3
2
1
0
−1
−2
−3

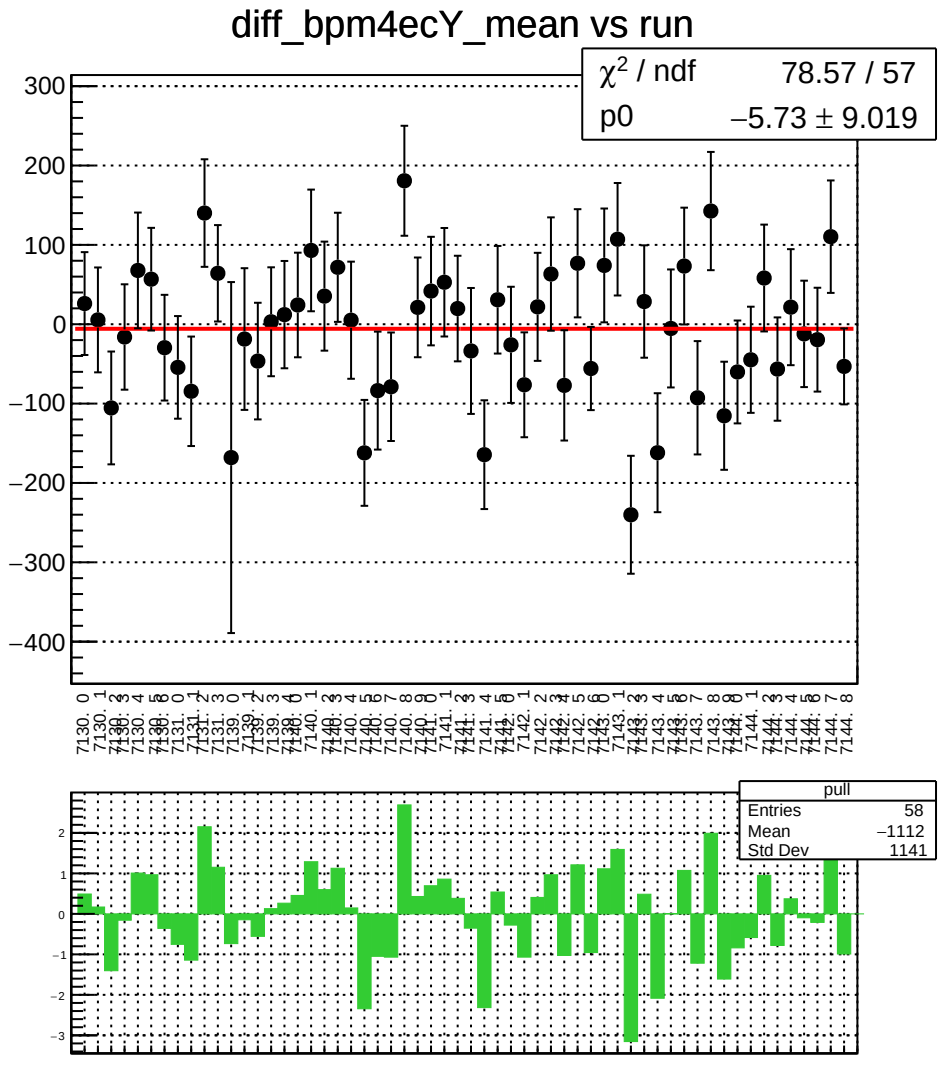

pull1D
Entries 58
Mean 0.005411
Std Dev 1.16
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

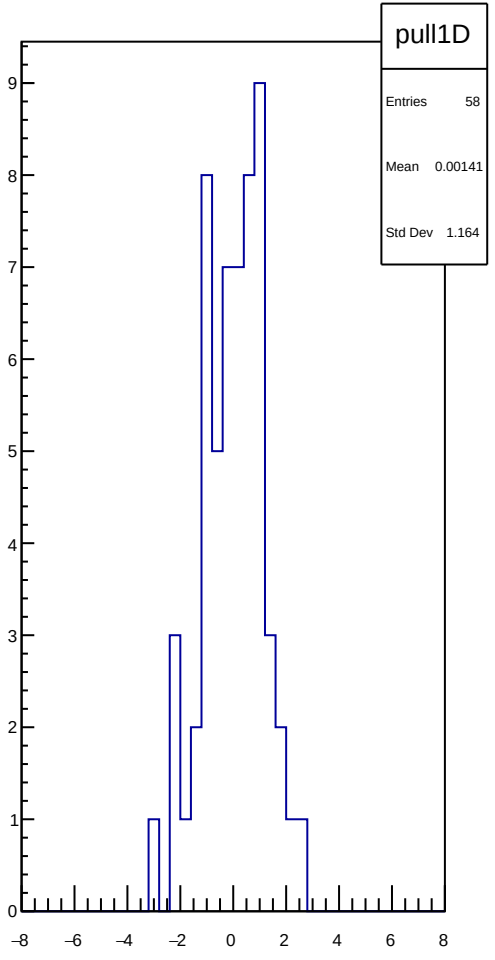

diff_bpm4acY_rms vs run
χ² / ndf 3270 / 57
p0 7173 ± 6.825
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

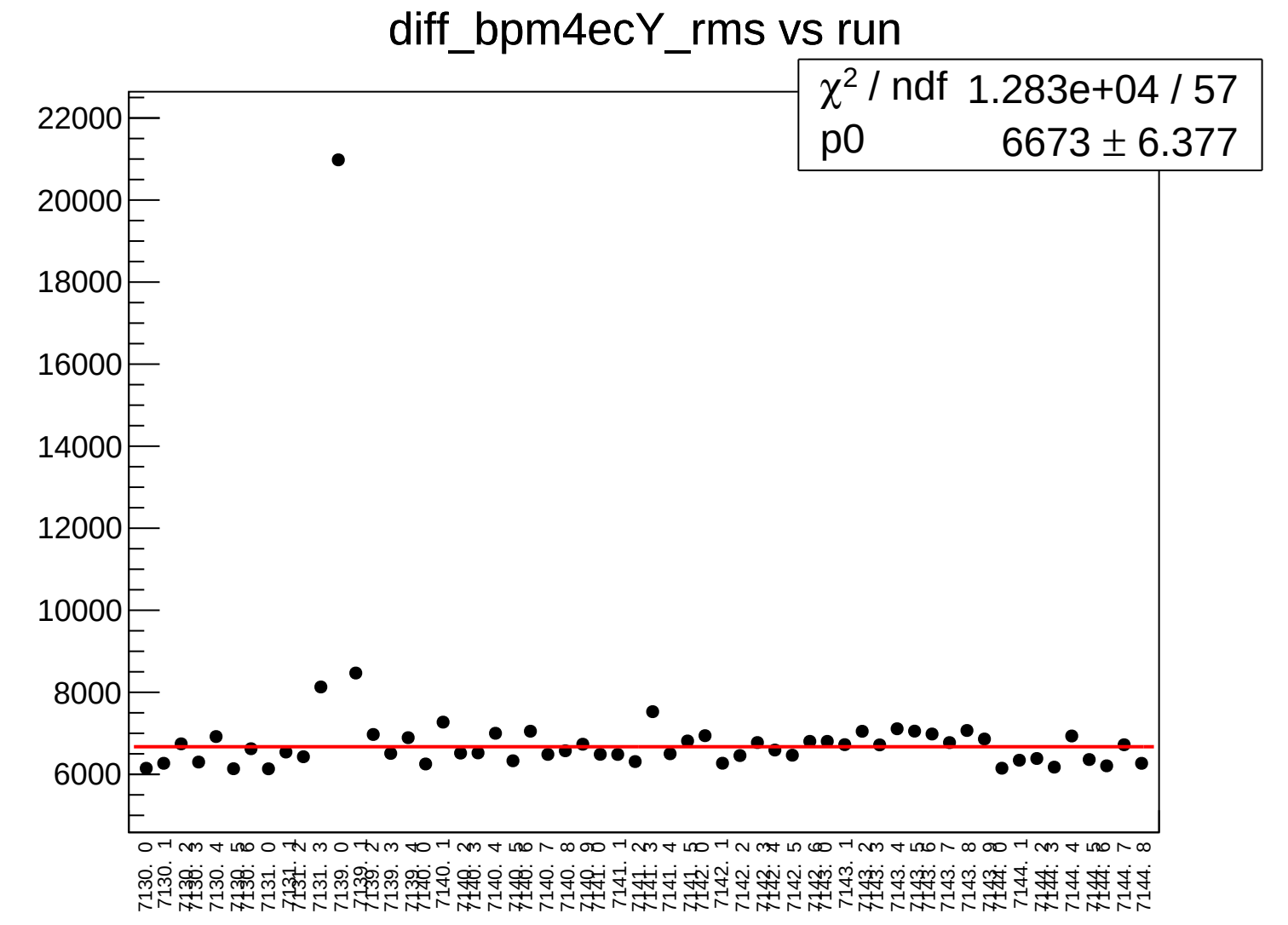

diff_bpm4ecX_mean vs run
χ² / ndf 59.19 / 57
p0 23.28 ± 11.97
pull
Entries 58
Mean 1192
Std Dev 1162

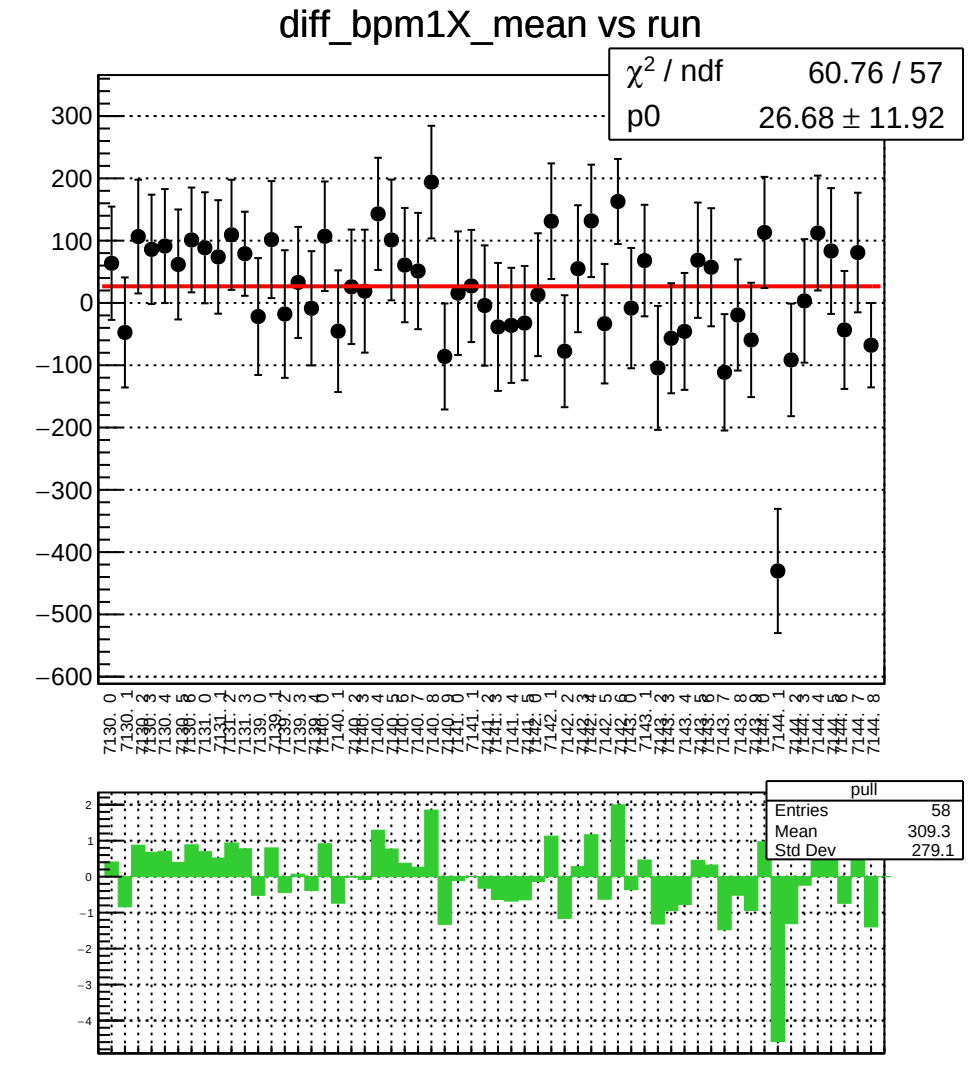

pull1D
Entries 58
Mean −0.005096
Std Dev 1.01

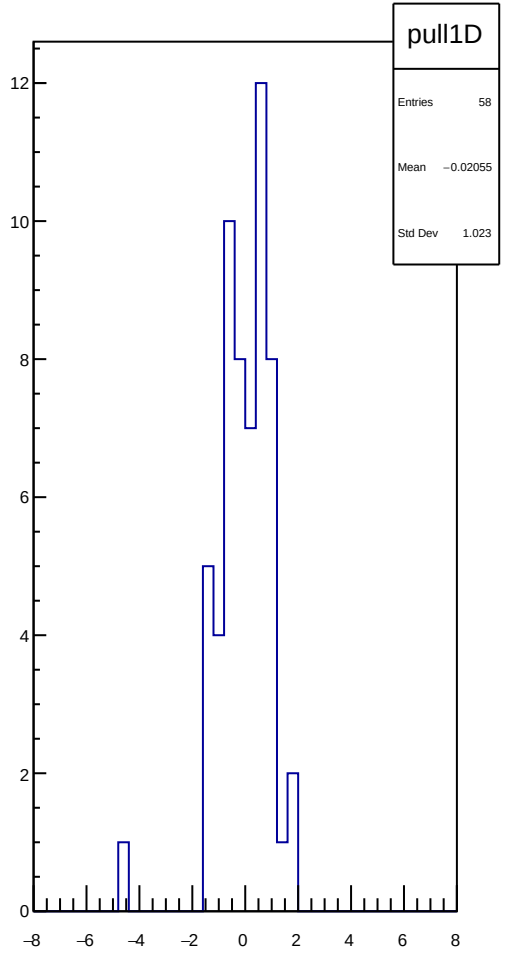

diff_bpm4ecX_rms vs run
χ² / ndf 9171 / 57
p0 8871 ± 8.464
22000
20000
18000
16000
14000
12000
10000
8000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

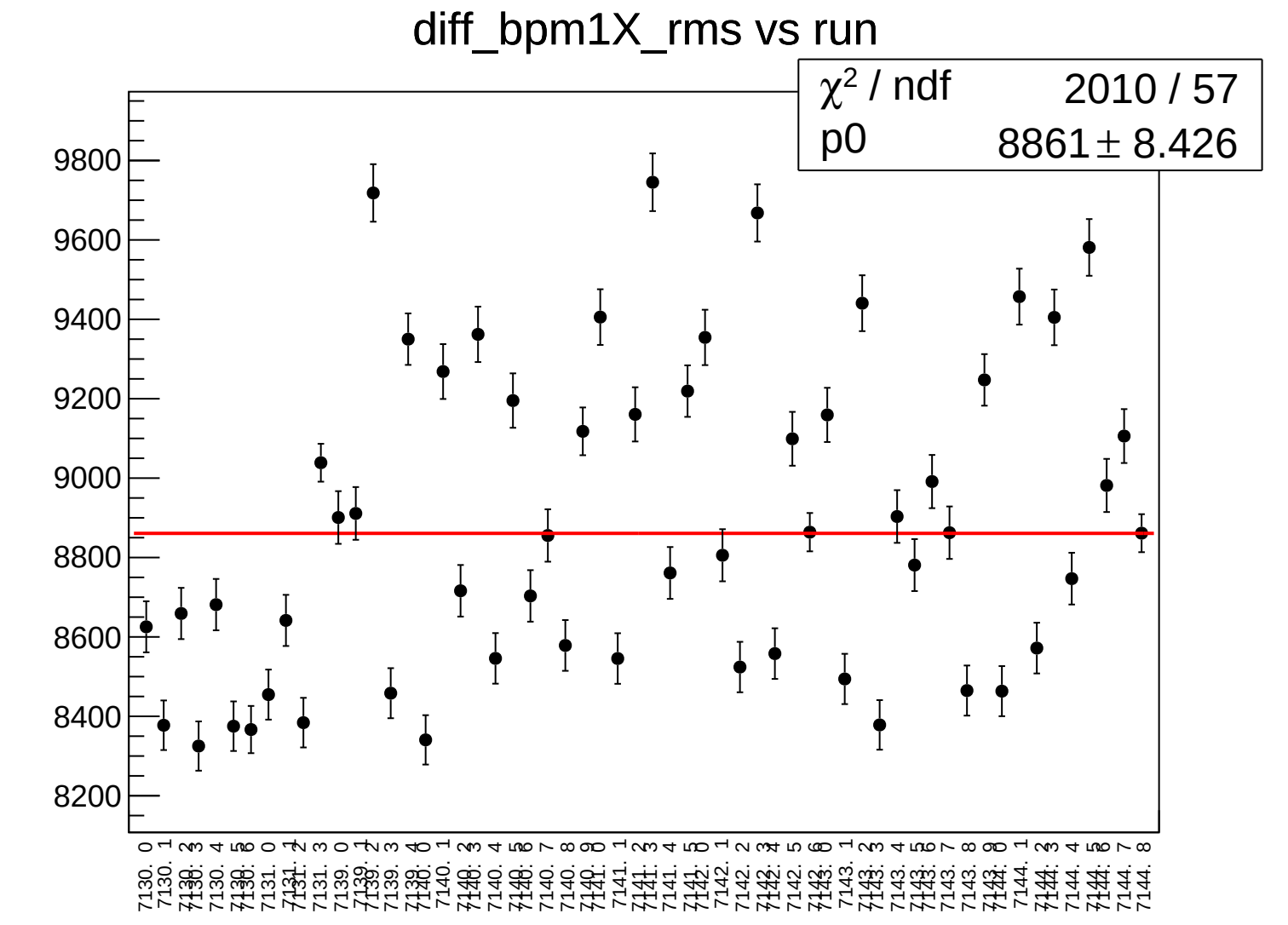

diff_bpm4ecY_mean vs run
χ² / ndf 78.57 / 57
p0 −5.73 ± 9.019
pull
Entries 58
Mean −1112
Std Dev 1141

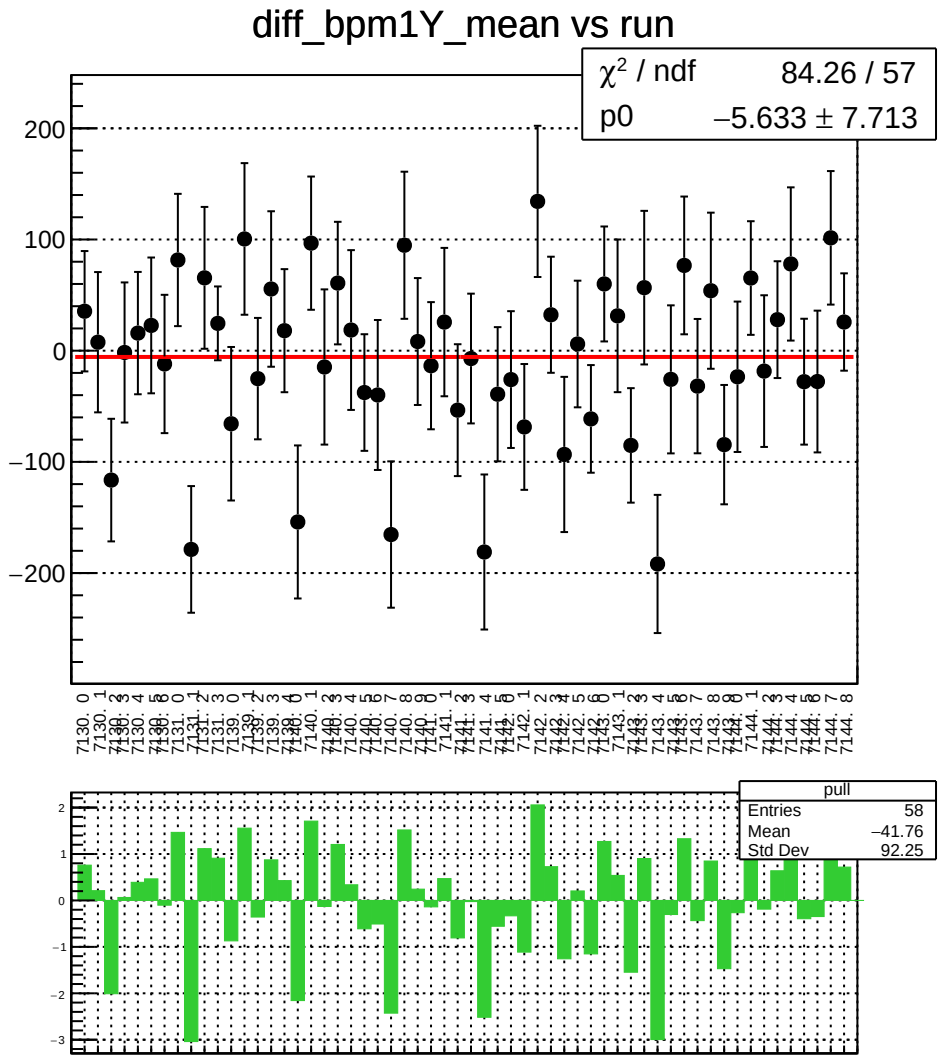

pull1D
Entries 58
Mean 0.00141
Std Dev 1.164

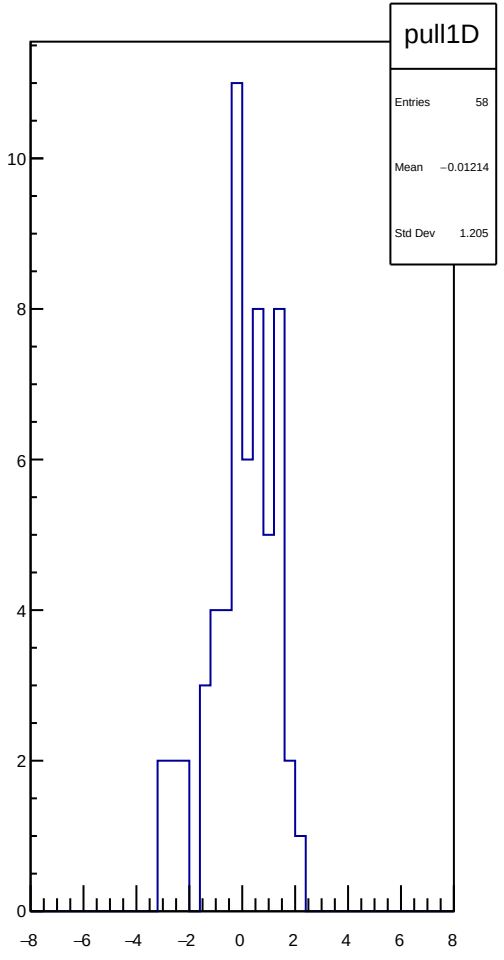

diff_bpm4ecY_rms vs run
χ² / ndf 1.283e+04 / 57
p0 6673 ± 6.377
22000
20000
18000
16000
14000
12000
10000
8000
6000

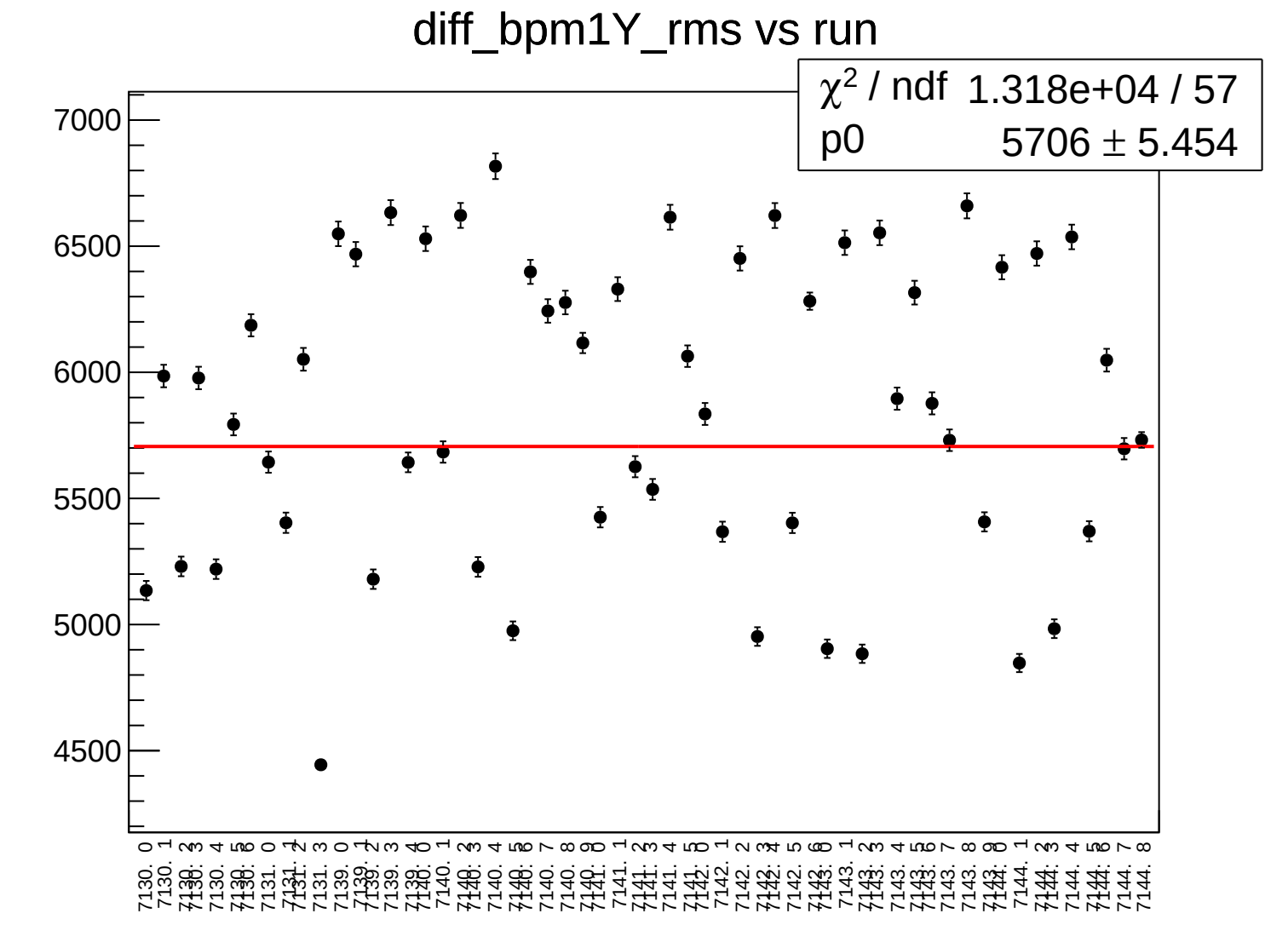

diff_bpm1X_mean vs run
χ² / ndf 60.76 / 57
p0 26.68 ± 11.92
pull
Entries 58
Mean 309.3
Std Dev 279.1

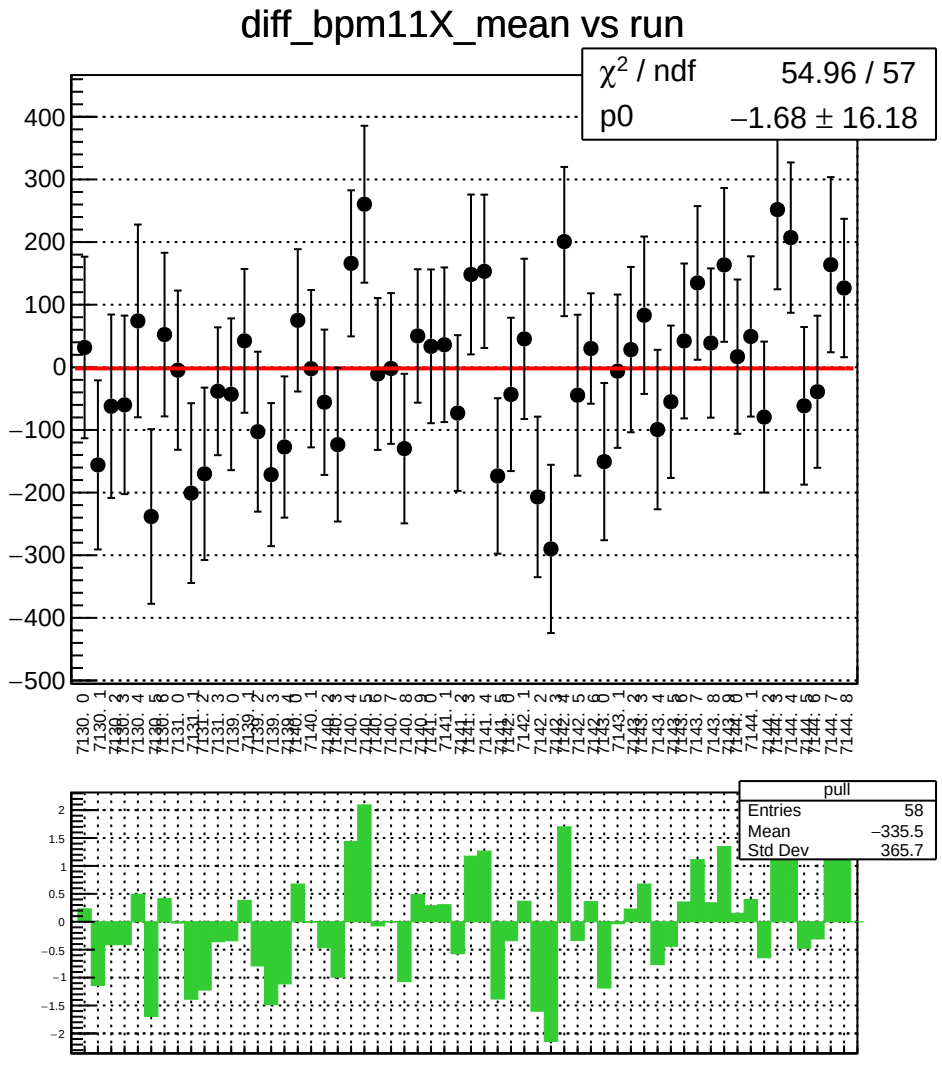

pull1D
Entries 58
Mean −0.02055
Std Dev 1.023

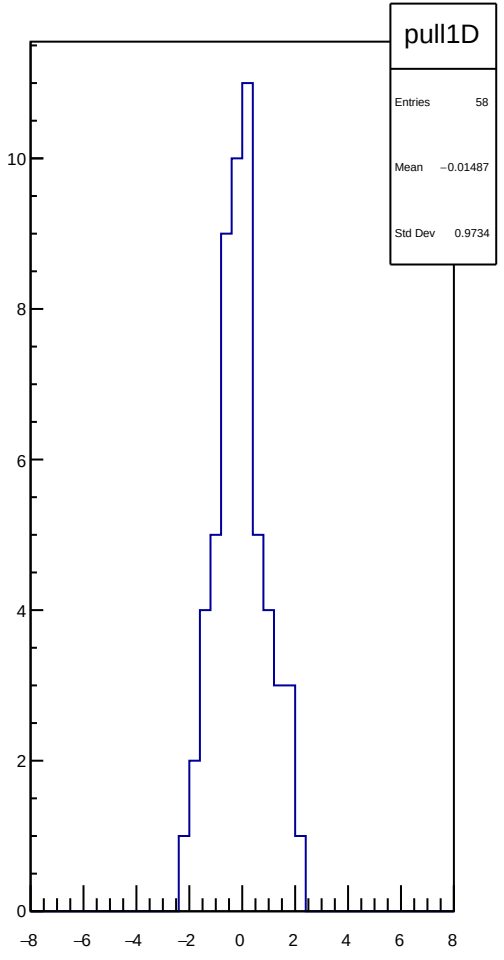

diff_bpm1X_rms vs run
χ² / ndf 2010 / 57
p0 8861 ± 8.426
9800
9600
9400
9200
9000
8800
8600
8400
8200

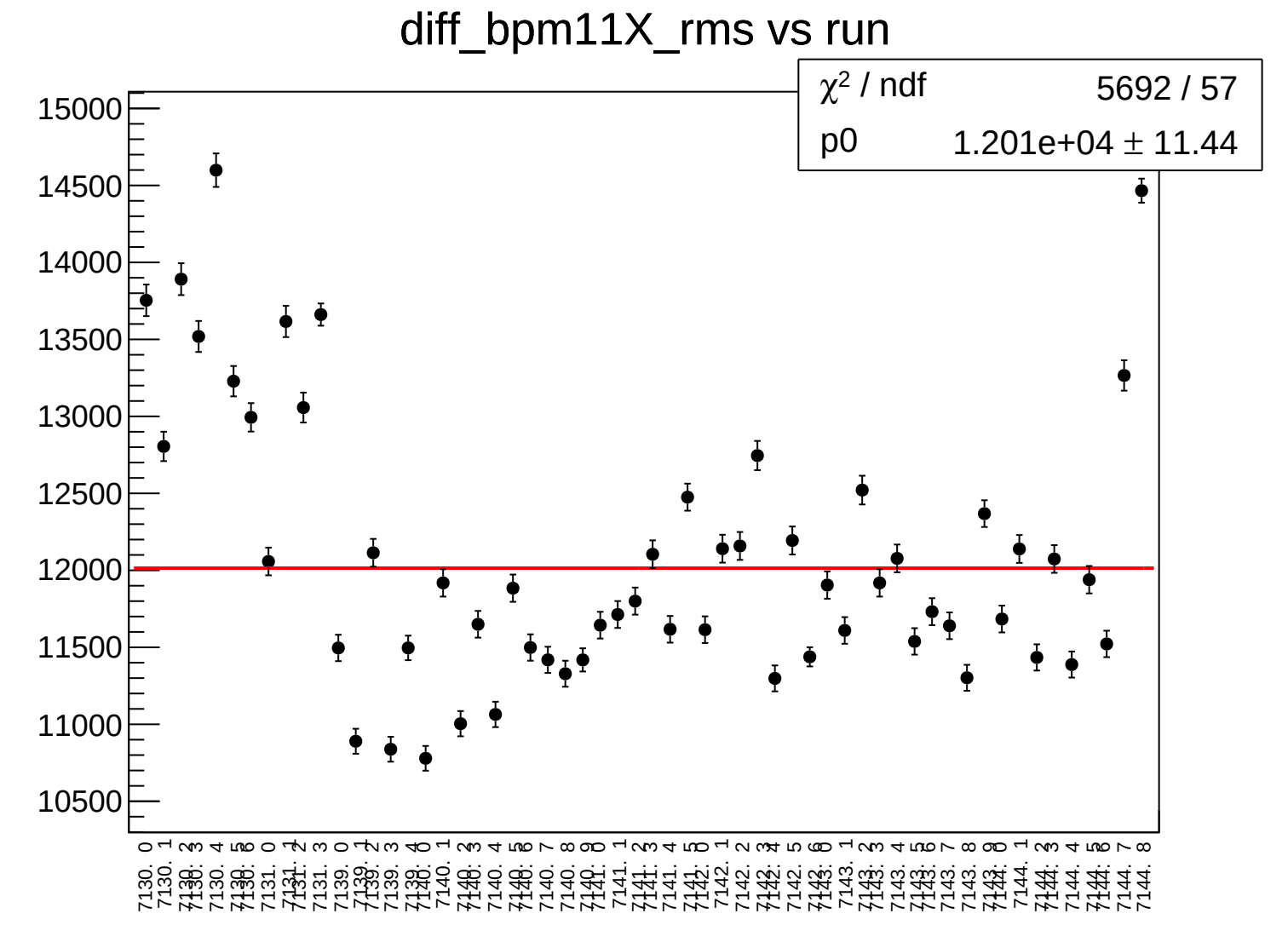

diff_bpm1Y_mean vs run
χ^2 / ndf 84.26 / 57
p0 −5.633 ± 7.713
200
100
0
−100
−200
pull
Entries 58
Mean −41.76
Std Dev 92.25
2
1
0
−1
−2
−3

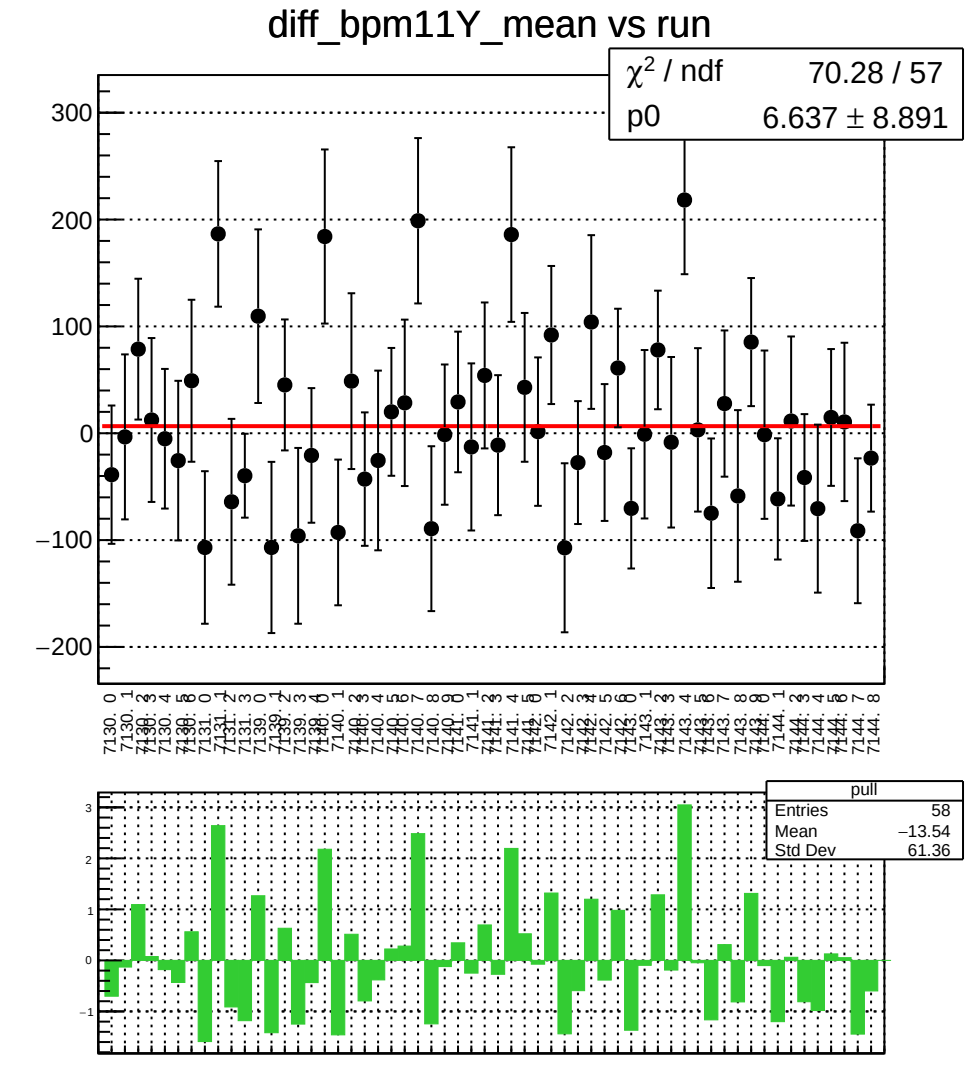

pull1D
Entries 58
Mean −0.01214
Std Dev 1.205
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

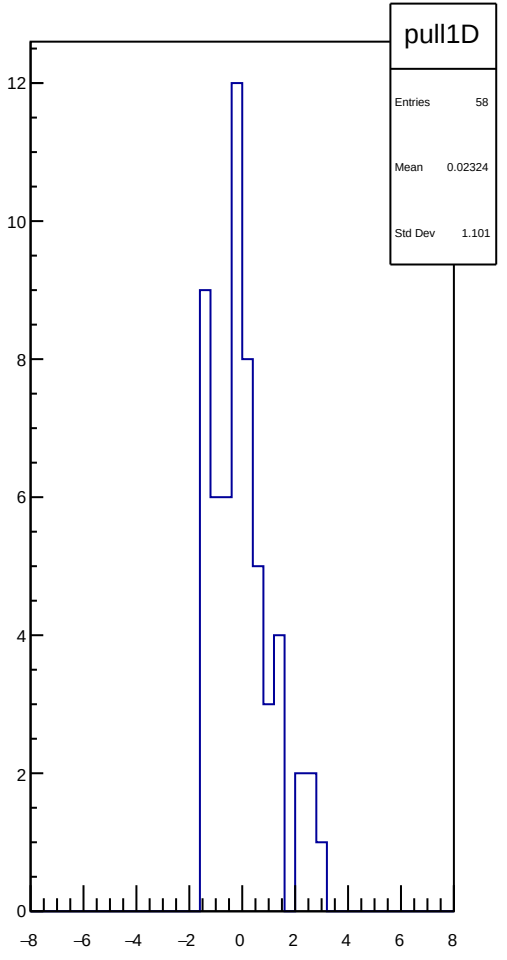

diff_bpm1Y_rms vs run
χ² / ndf 1.318e+04 / 57
p0 5706 ± 5.454
7000
6500
6000
5500
5000
4500

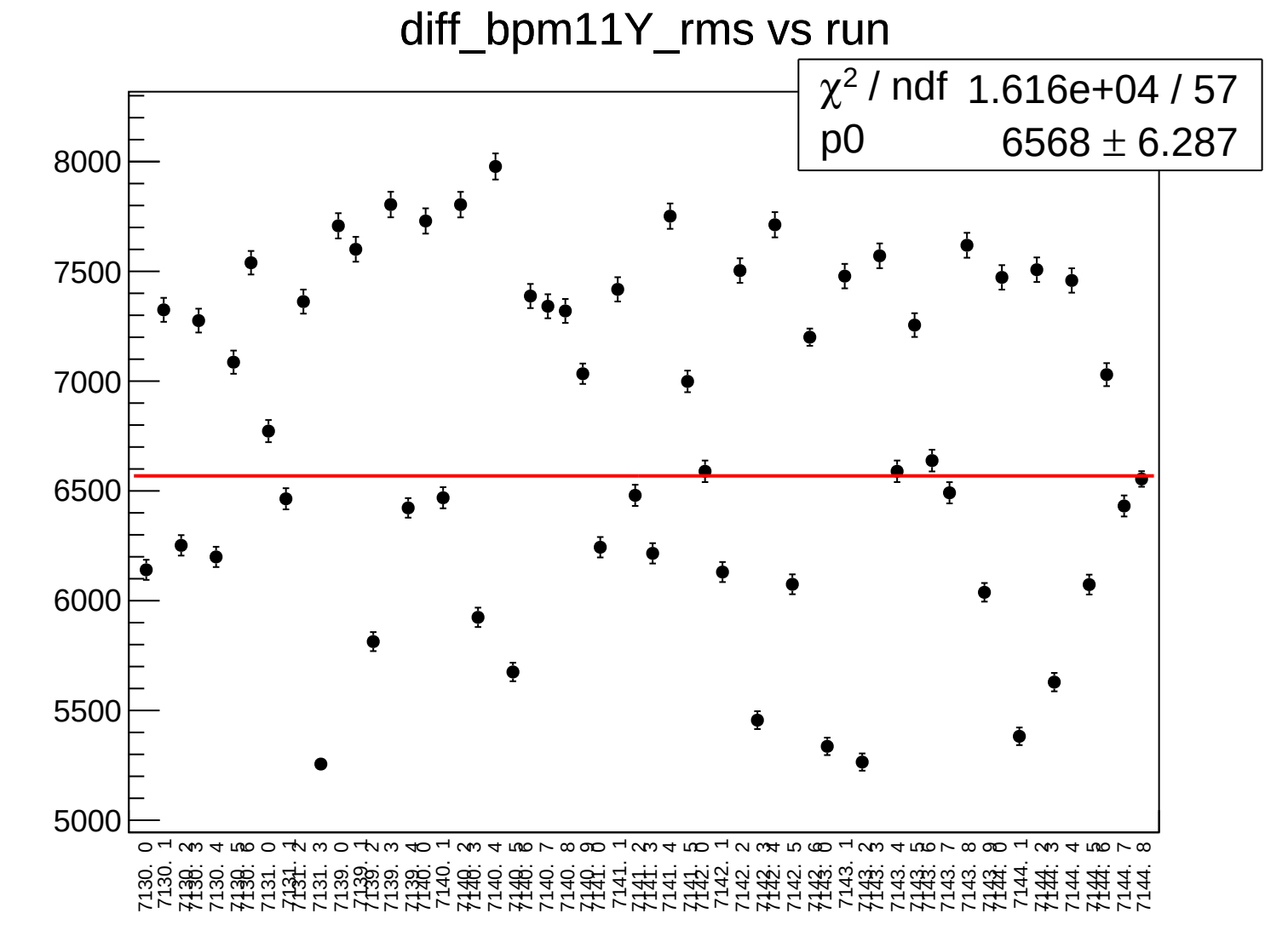

diff_bpm11X_mean vs run
χ^2 / ndf 54.96 / 57
p0 −1.68 ± 16.18
pull
Entries 58
Mean −335.5
Std Dev 365.7

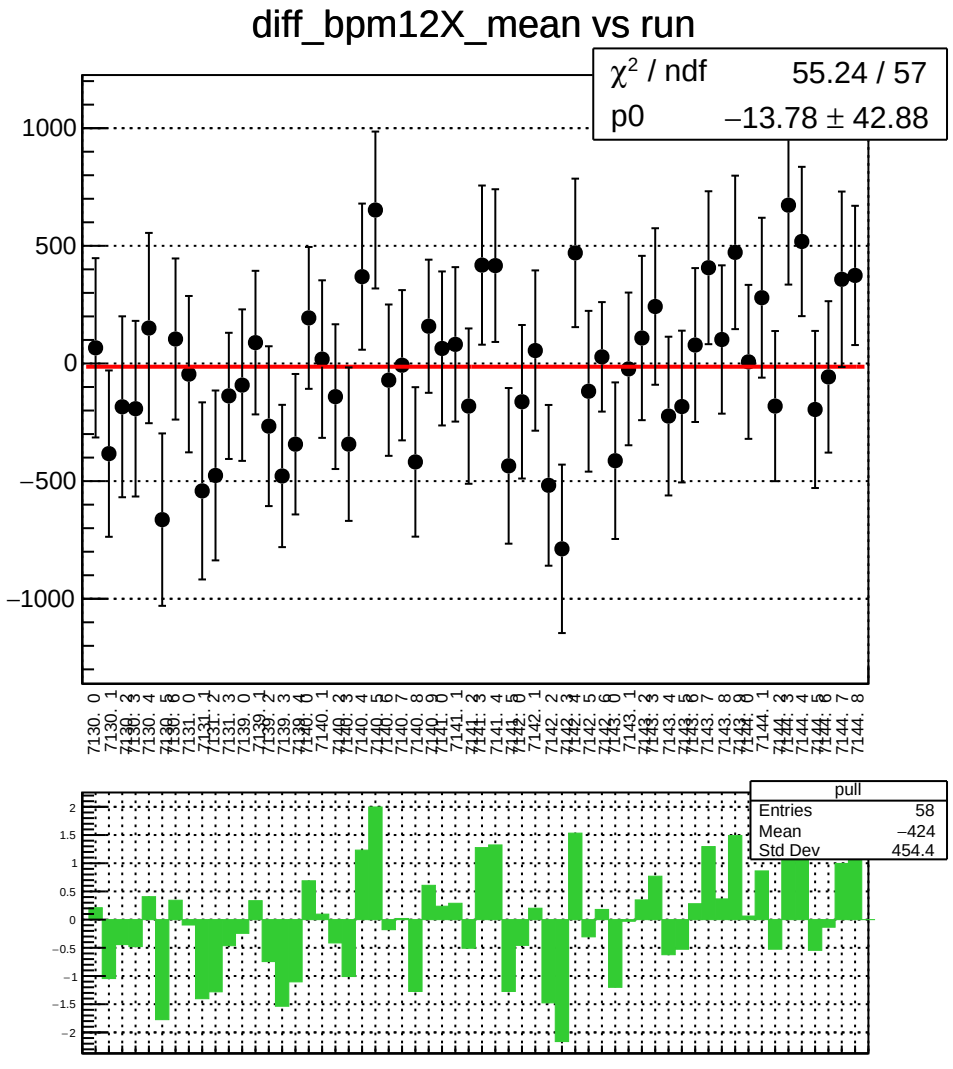

pull1D
Entries 58
Mean −0.01487
Std Dev 0.9734

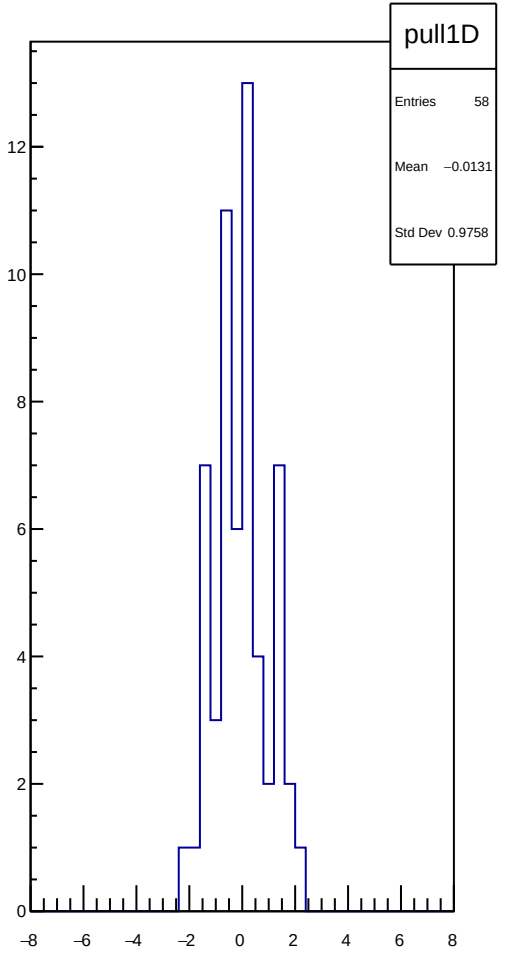

diff_bpm11X_rms vs run
χ² / ndf 5692 / 57
p0 1.201e+04 ± 11.44
15000
14500
14000
13500
13000
12500
12000
11500
11000
10500

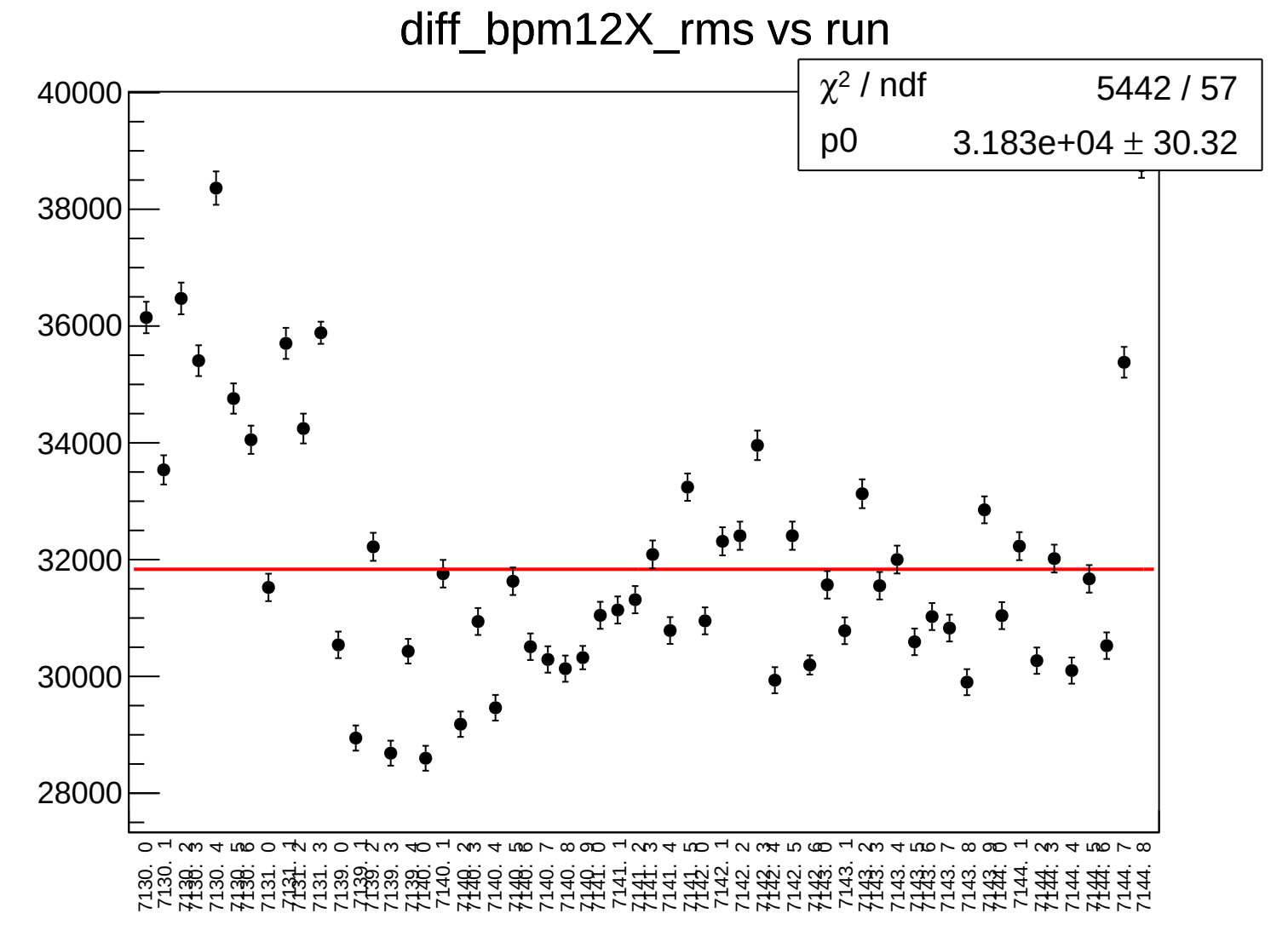

diff_bpm11Y_mean vs run
χ² / ndf 70.28 / 57
p0 6.637 ± 8.891
pull
Entries 58
Mean −13.54
Std Dev 61.36

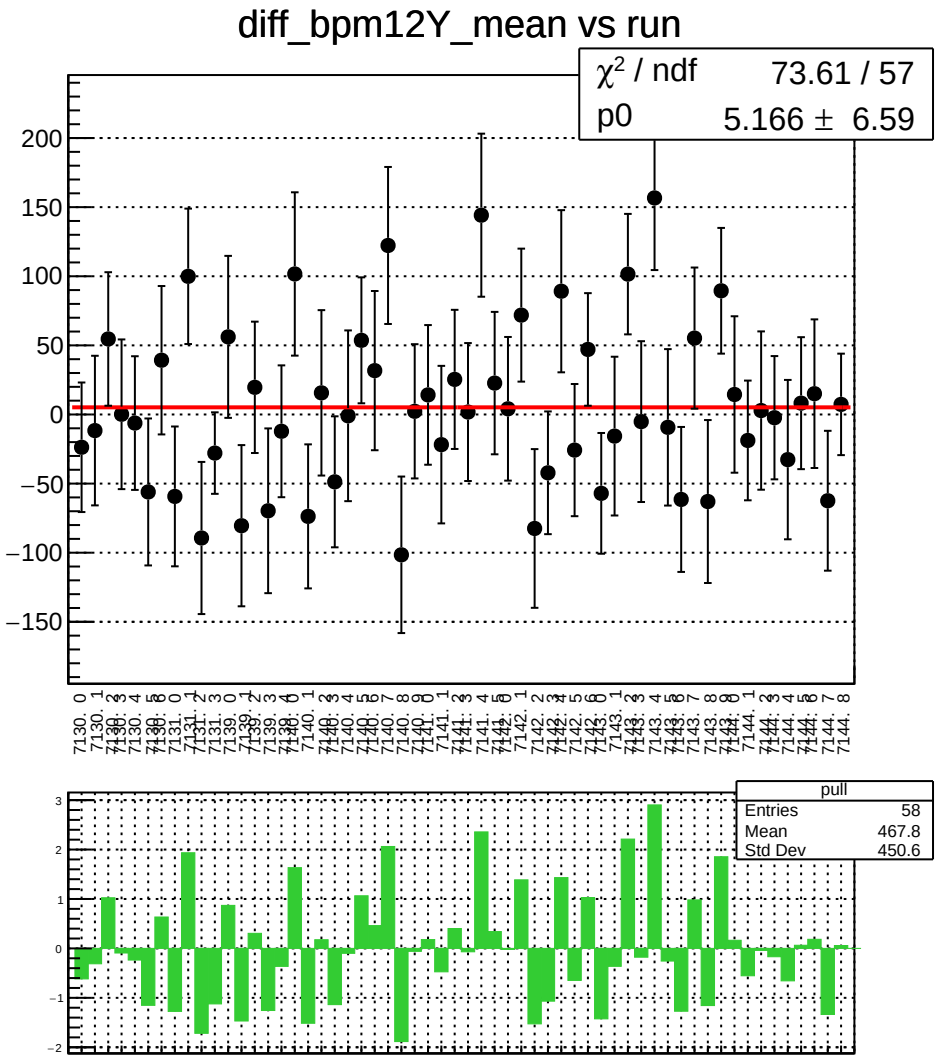

pull1D
Entries 58
Mean 0.02324
Std Dev 1.101

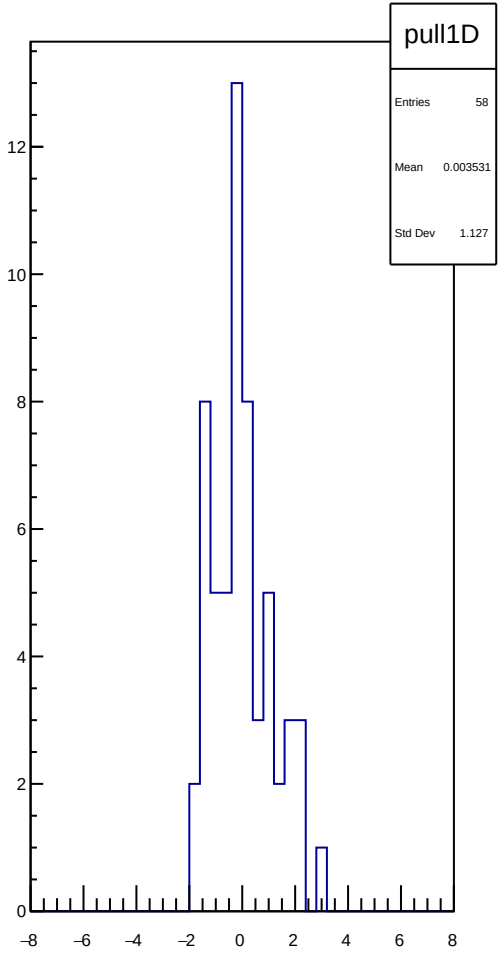

diff_bpm11Y_rms vs run
χ² / ndf 1.616e+04 / 57
p0 6568 ± 6.287
8000
7500
7000
6500
6000
5500
5000

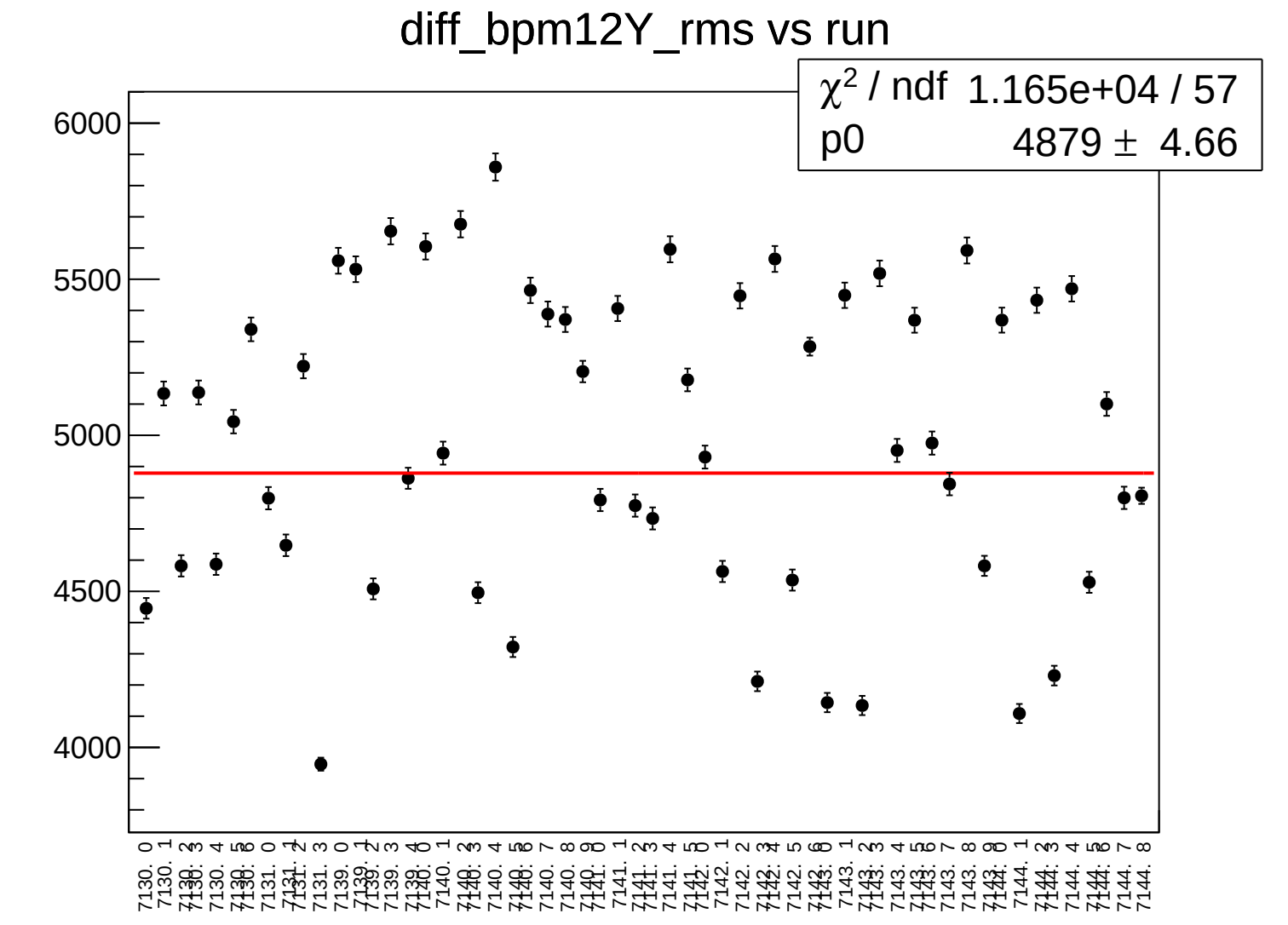

diff_bpm12X_mean vs run
χ² / ndf 55.24 / 57
p0 −13.78 ± 42.88
1000
500
0
−500
−1000
pull
Entries 58
Mean −424
Std Dev 454.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

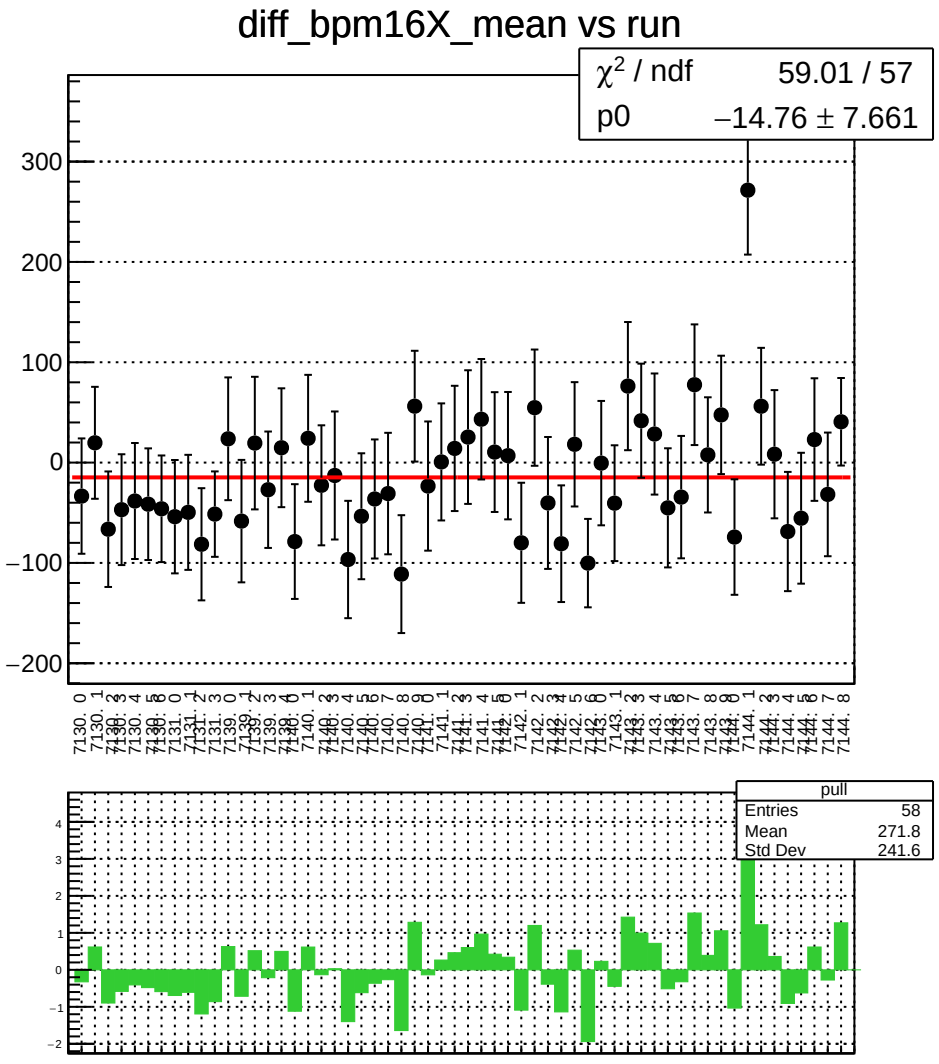

pull1D
Entries 58
Mean −0.0131
Std Dev 0.9758
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

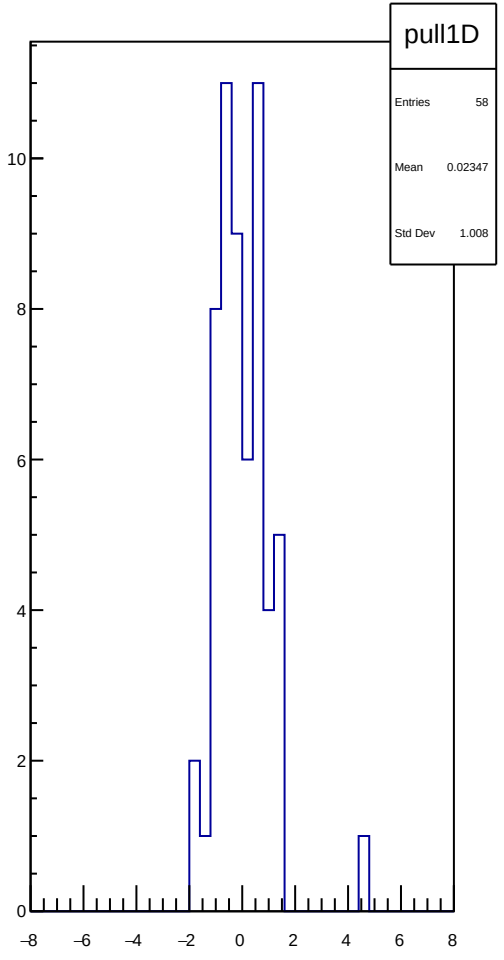

diff_bpm12X_rms vs run
χ² / ndf 5442 / 57
p0 3.183e+04 ± 30.32
40000
38000
36000
34000
32000
30000
28000

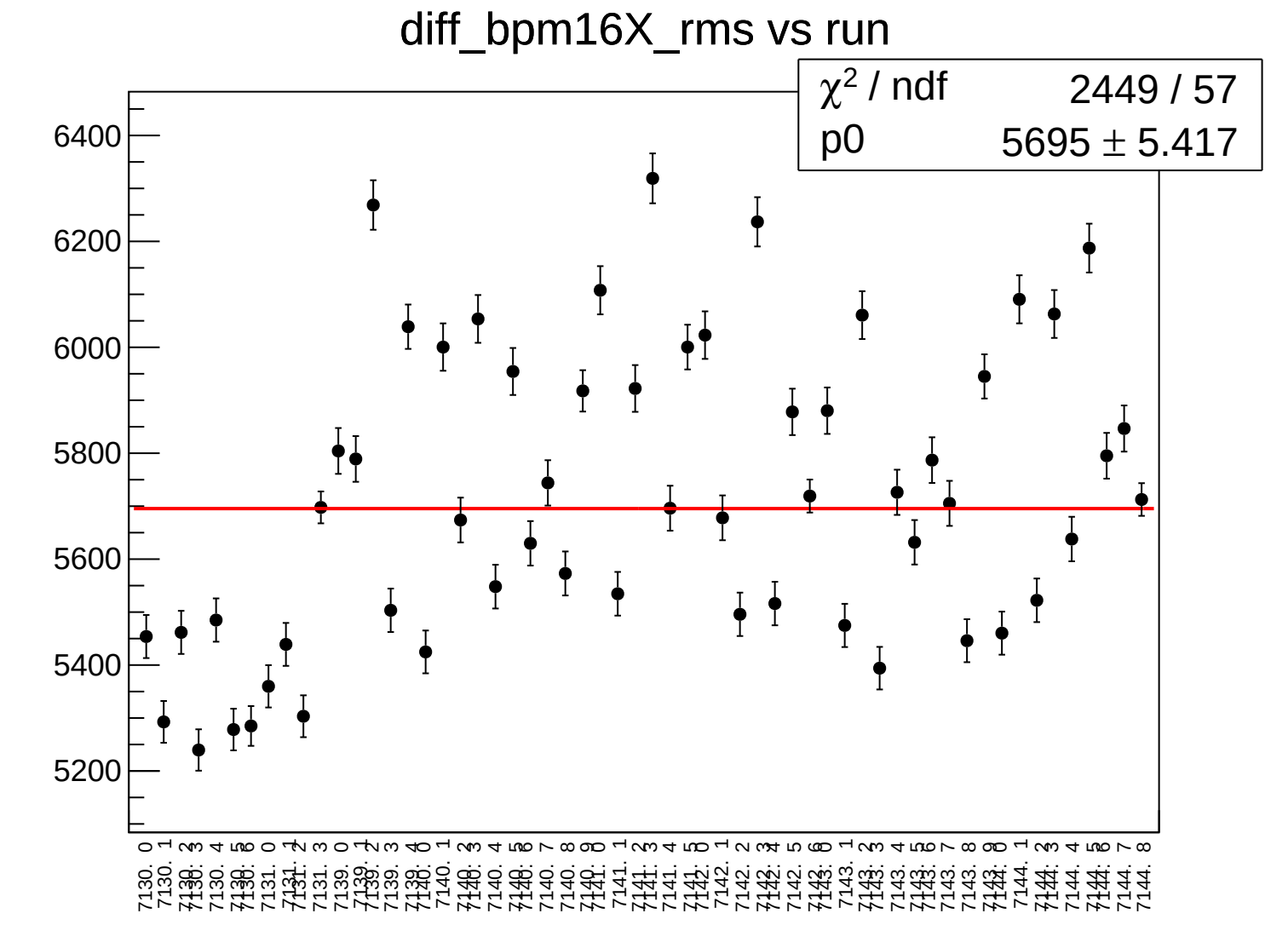

diff_bpm12Y_mean vs run
χ² / ndf 73.61 / 57
p0 5.166 ± 6.59
pull
Entries 58
Mean 467.8
Std Dev 450.6

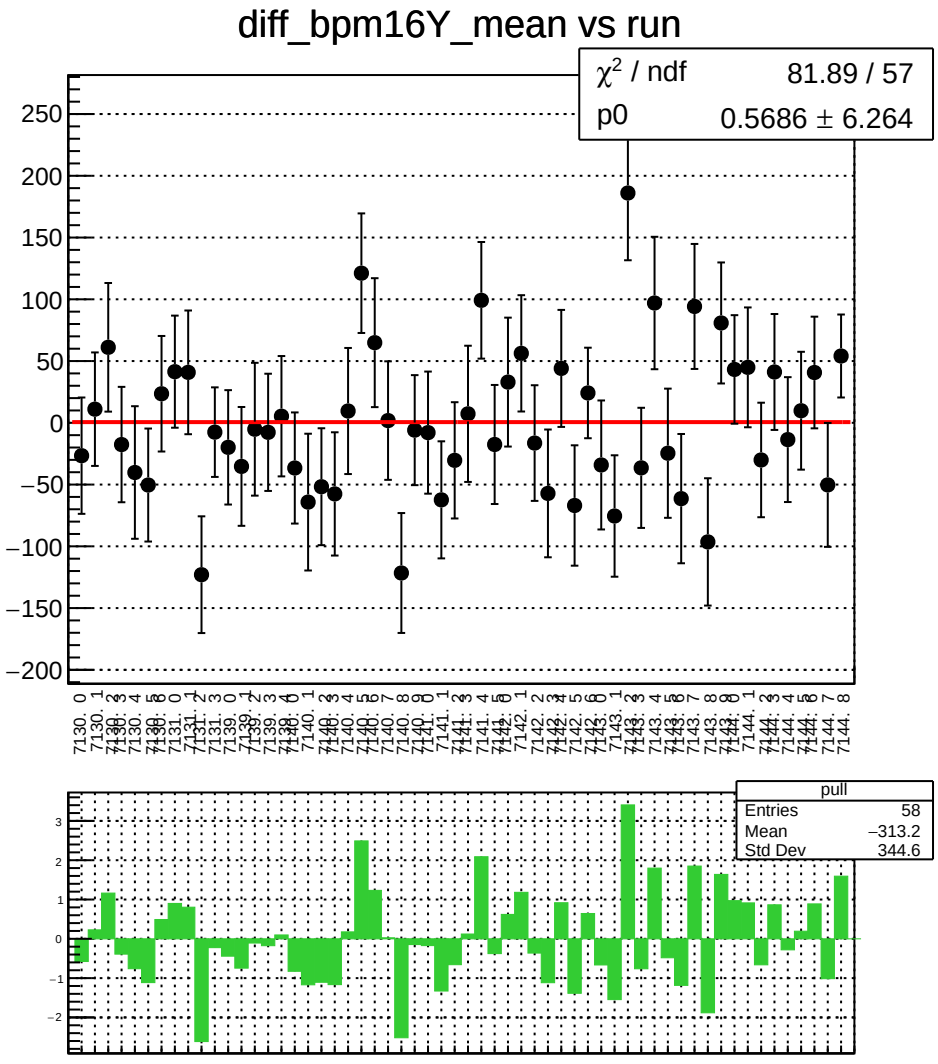

pull1D
Entries 58
Mean 0.003531
Std Dev 1.127

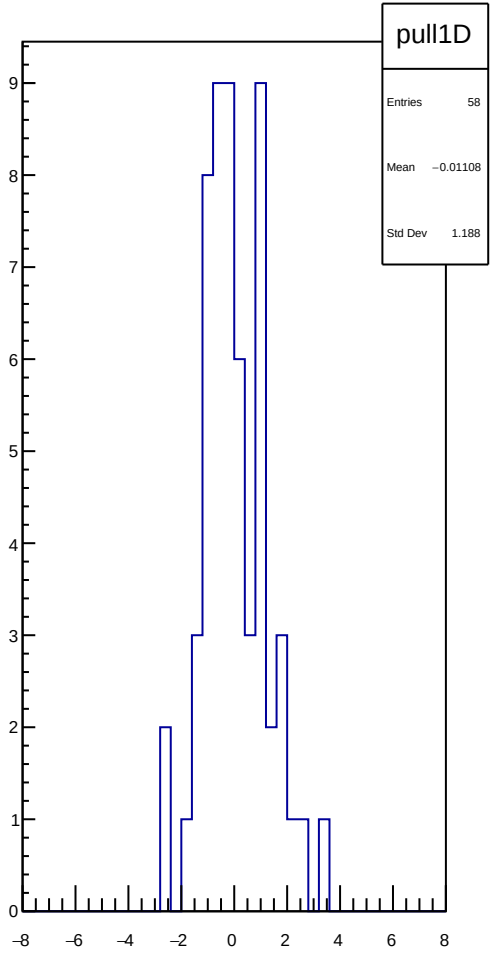

diff_bpm12Y_rms vs run
χ² / ndf 1.165e+04 / 57
p0 4879 ± 4.66
6000
5500
5000
4500
4000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

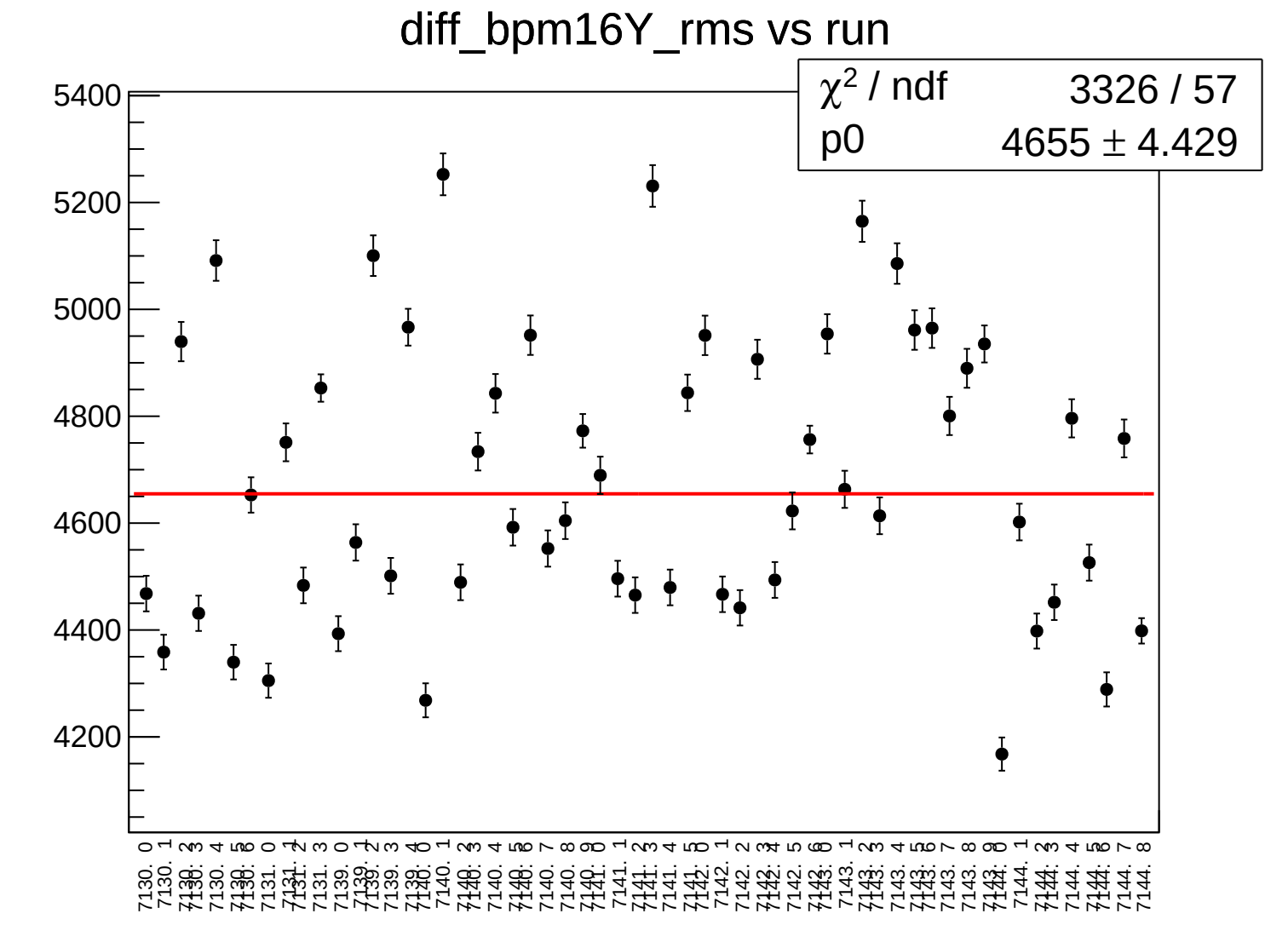

diff_bpm16X_mean vs run
χ² / ndf 59.01 / 57
p0 −14.76 ± 7.661
pull
Entries 58
Mean 271.8
Std Dev 241.6

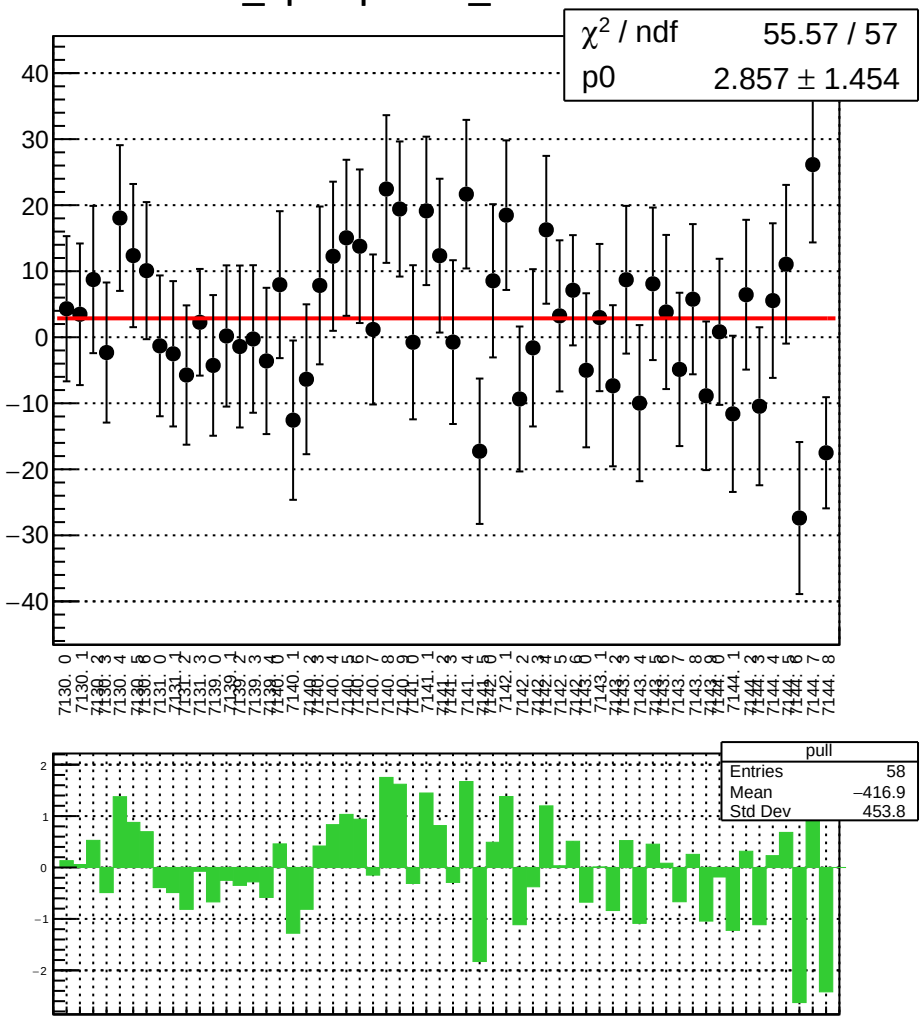

pull1D
Entries 58
Mean 0.02347
Std Dev 1.008

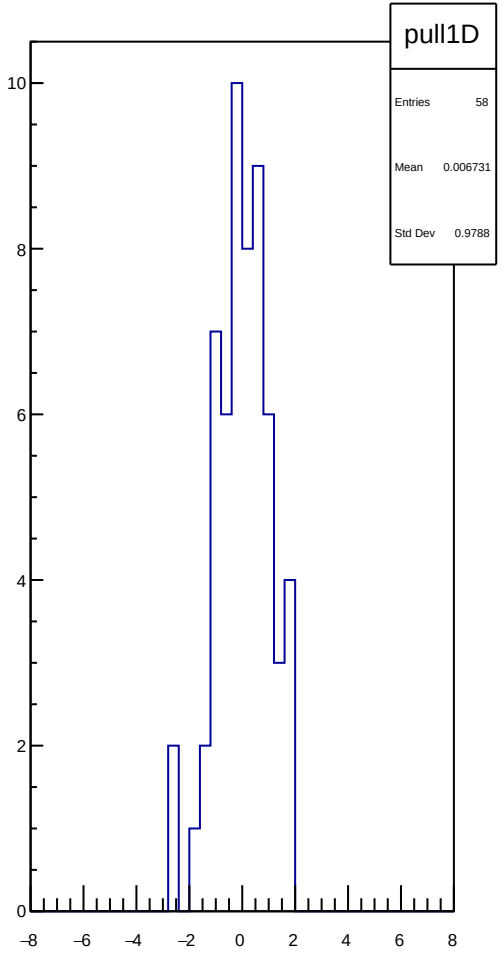

diff_bpm16X_rms vs run
χ² / ndf 2449 / 57
p0 5695 ± 5.417
6400
6200
6000
5800
5600
5400
5200
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

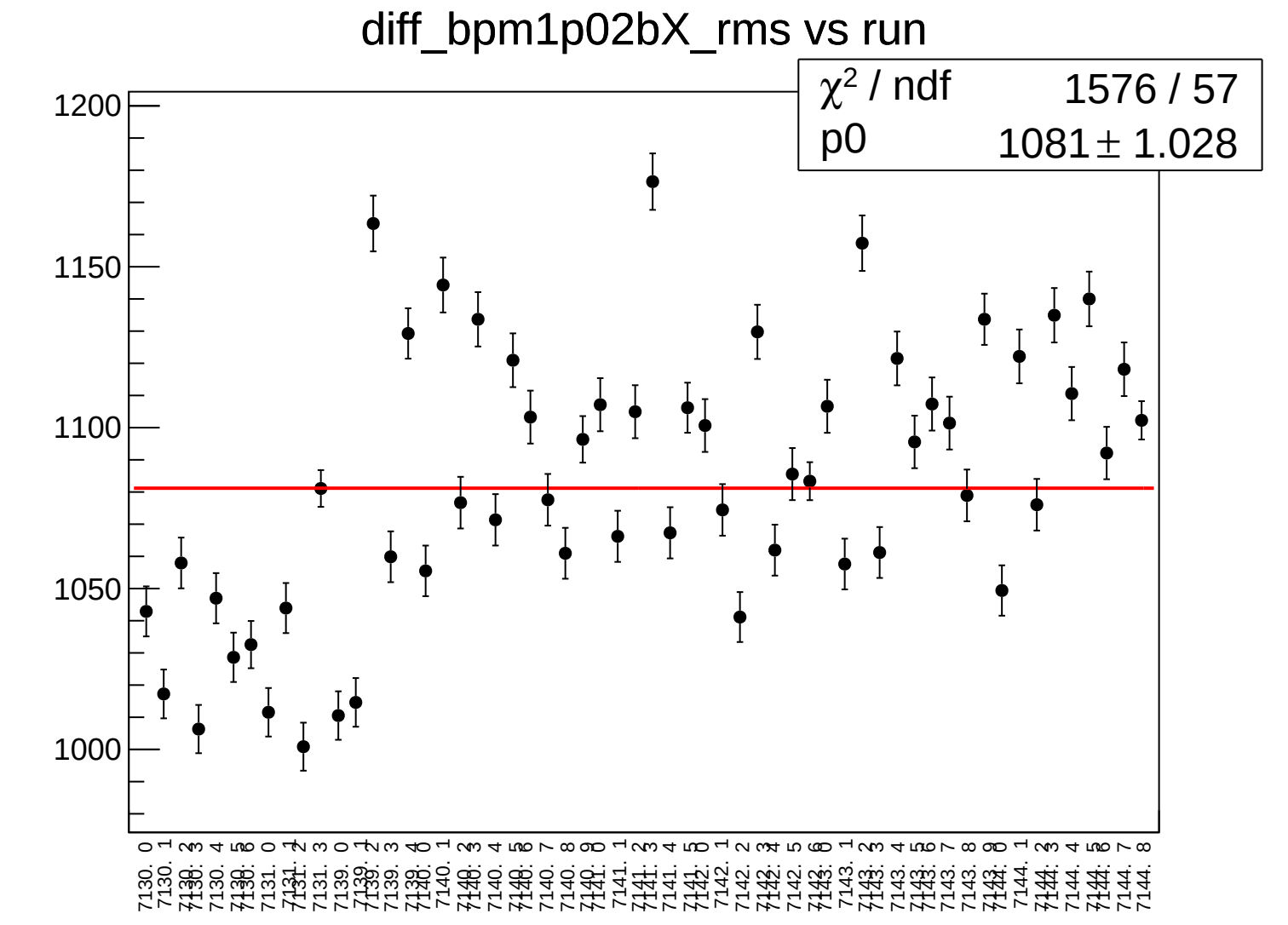

diff_bpm16Y_mean vs run
χ² / ndf 81.89 / 57
p0 0.5686 ± 6.264
pull
Entries 58
Mean −313.2
Std Dev 344.6


pull1D
Entries 58
Mean −0.01108
Std Dev 1.188


diff_bpm16Y_rms vs run
χ² / ndf 3326 / 57
p0 4655 ± 4.429
5400
5200
5000
4800
4600
4400
4200


diff_bpm1p02bX_mean vs run
χ² / ndf 55.57 / 57
p0 2.857 ± 1.454
pull
Entries 58
Mean −416.9
Std Dev 453.8


pull1D
Entries 58
Mean 0.006731
Std Dev 0.9788


diff_bpm1p02bX_rms vs run
χ² / ndf 1576 / 57
p0 1081 ± 1.028
1200
1150
1100
1050
1000
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
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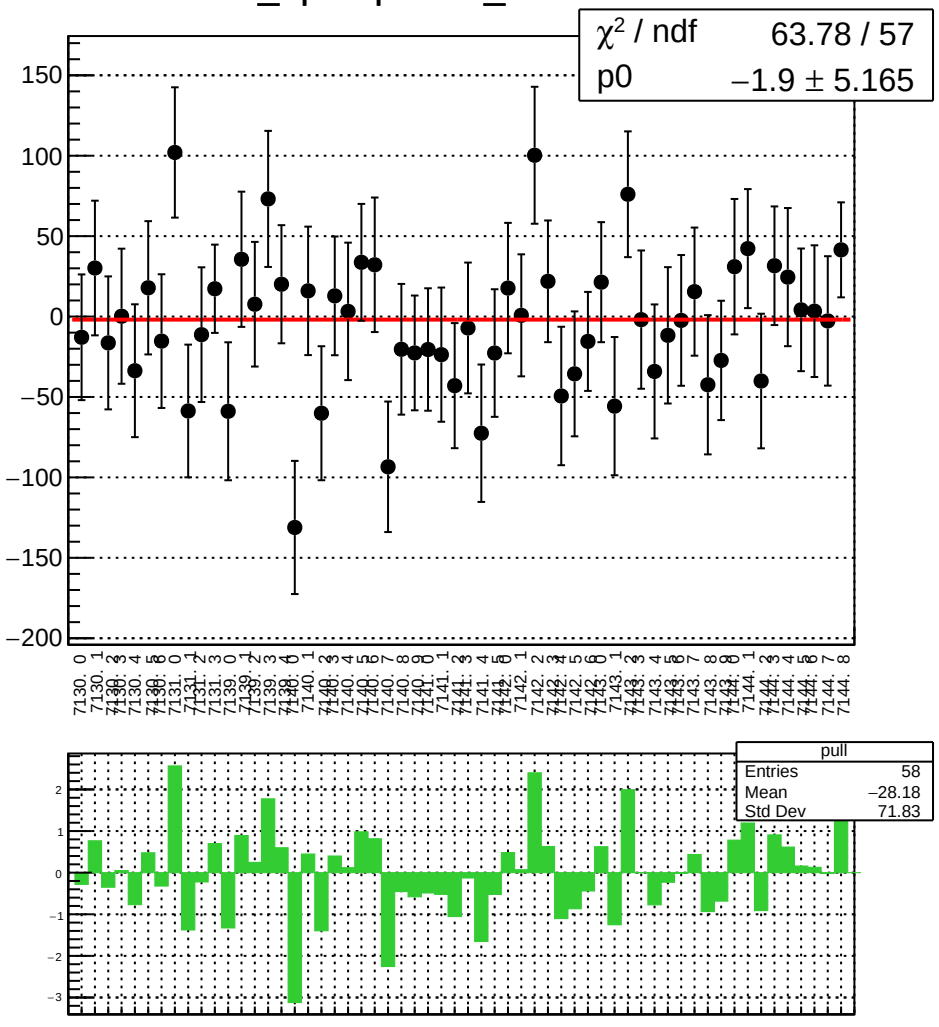
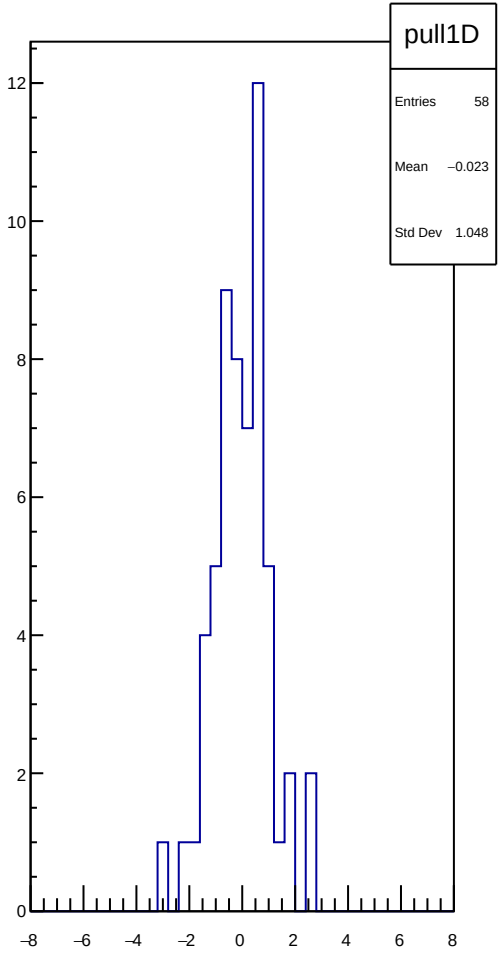
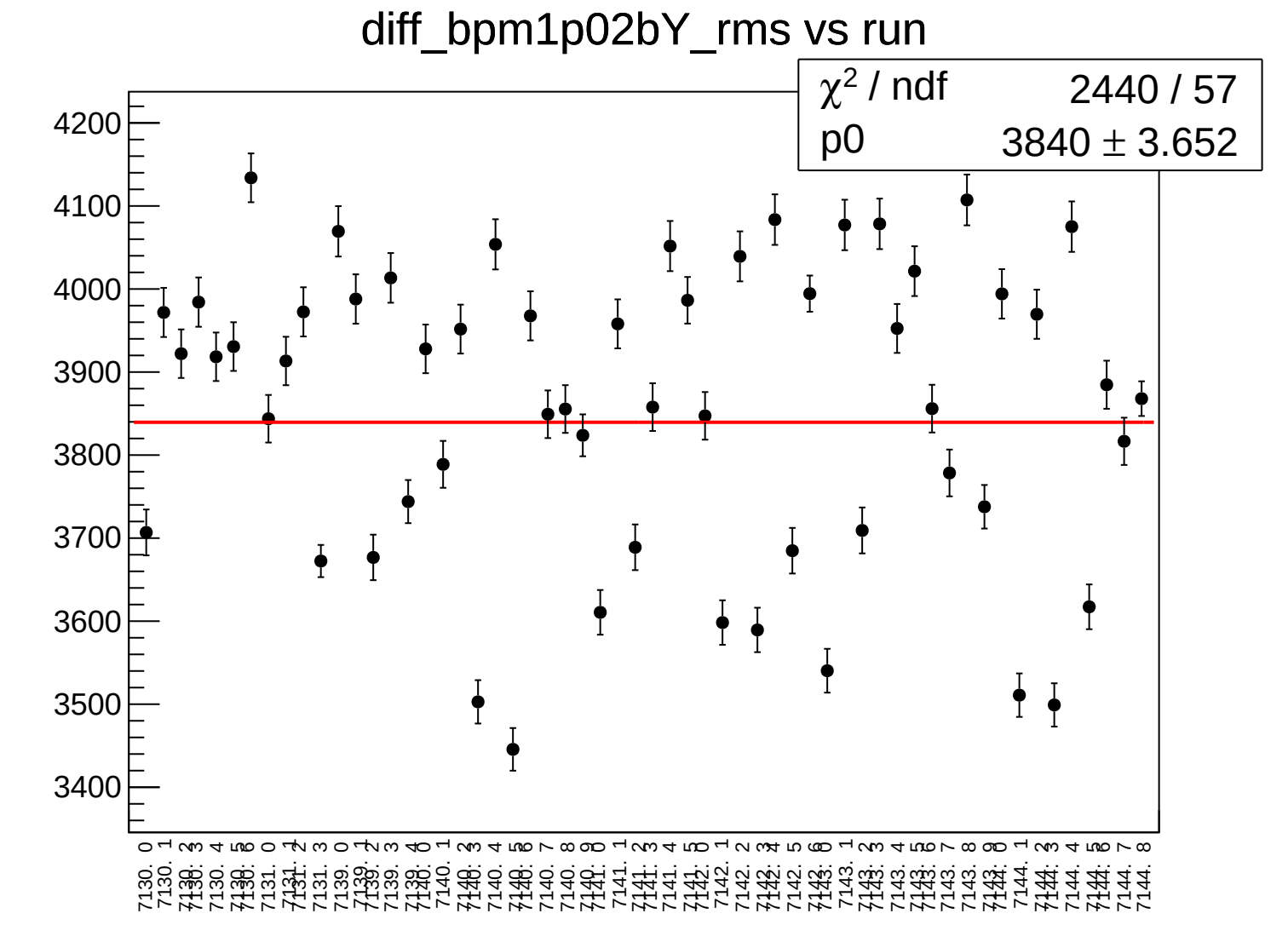
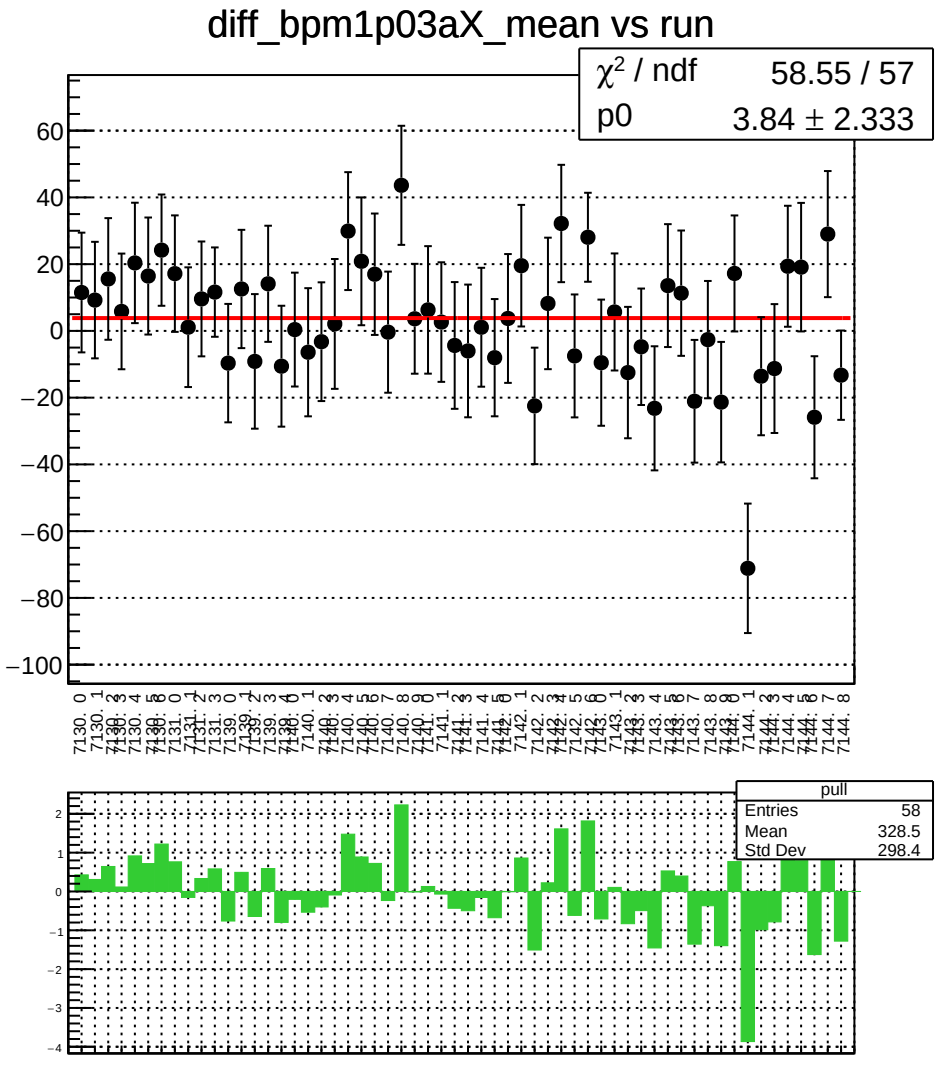
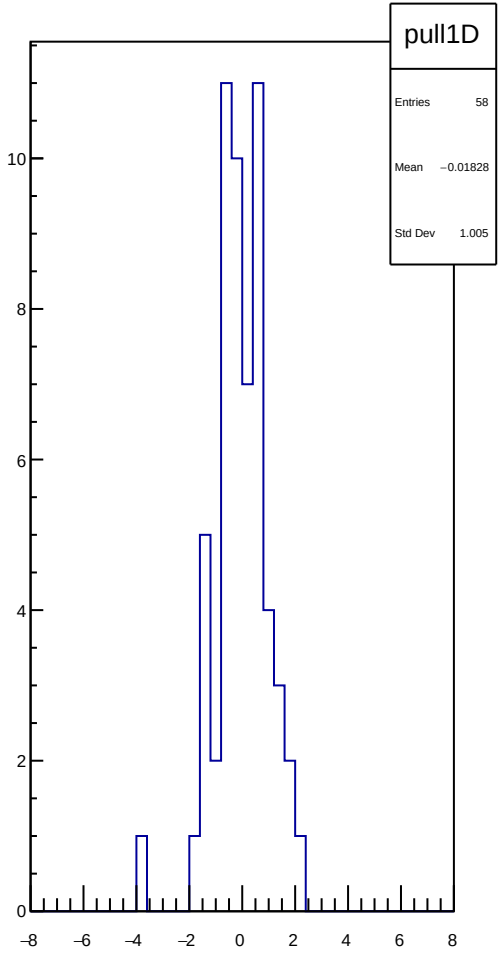
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

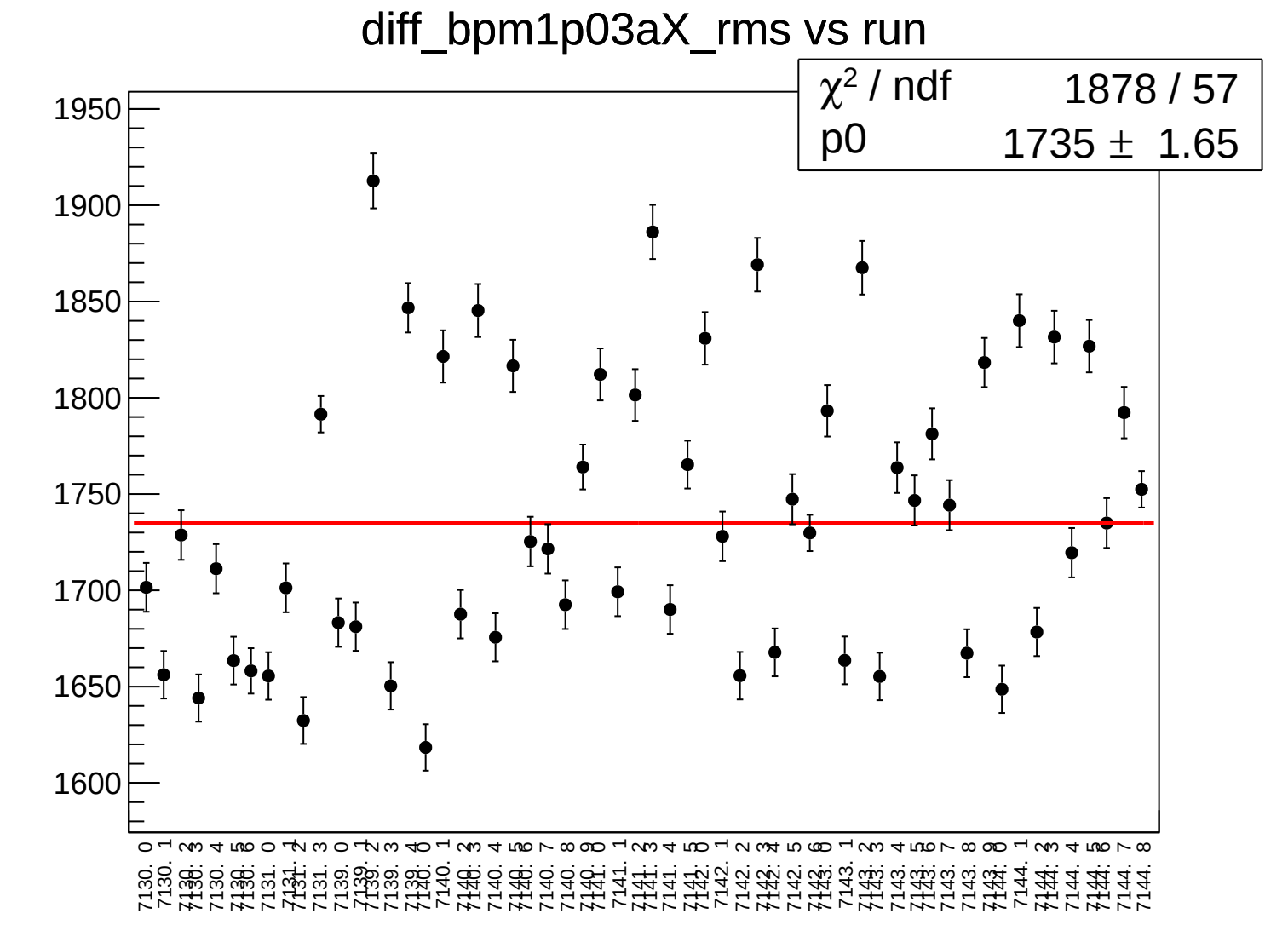

diff_bpm1p02bY_mean vs run
χ² / ndf 63.78 / 57
p0 −1.9 ± 5.165
pull
Entries 58
Mean −28.18
Std Dev 71.83

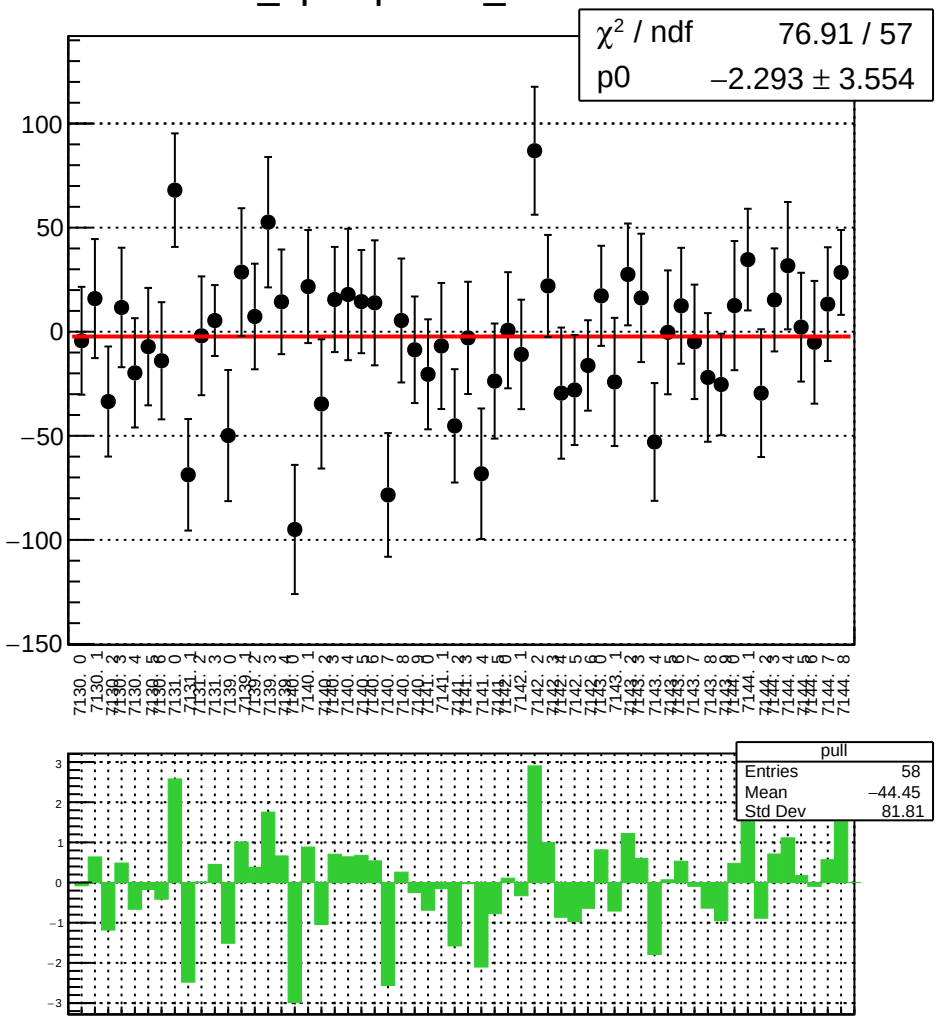

pull1D
Entries 58
Mean −0.023
Std Dev 1.048

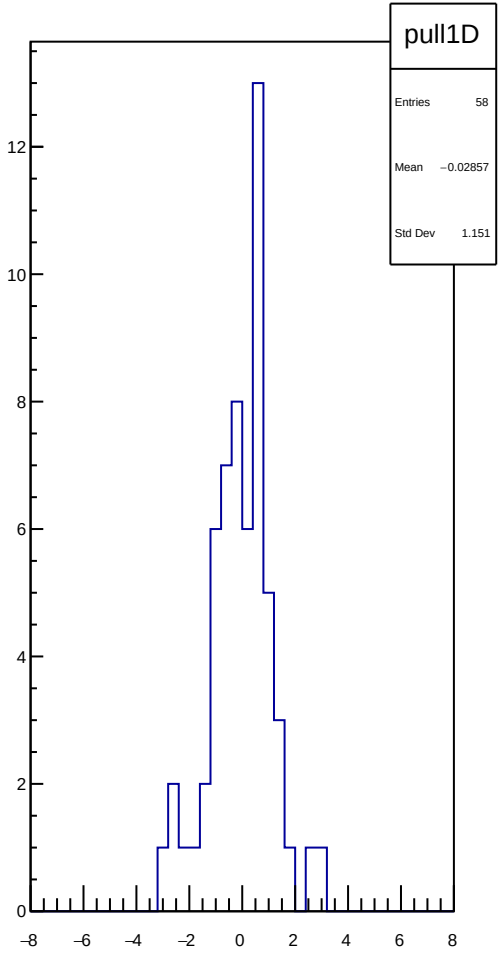

diff_bpm1p02bY_rms vs run
χ² / ndf 2440 / 57
p0 3840 ± 3.652
4200
4100
4000
3900
3800
3700
3600
3500
3400

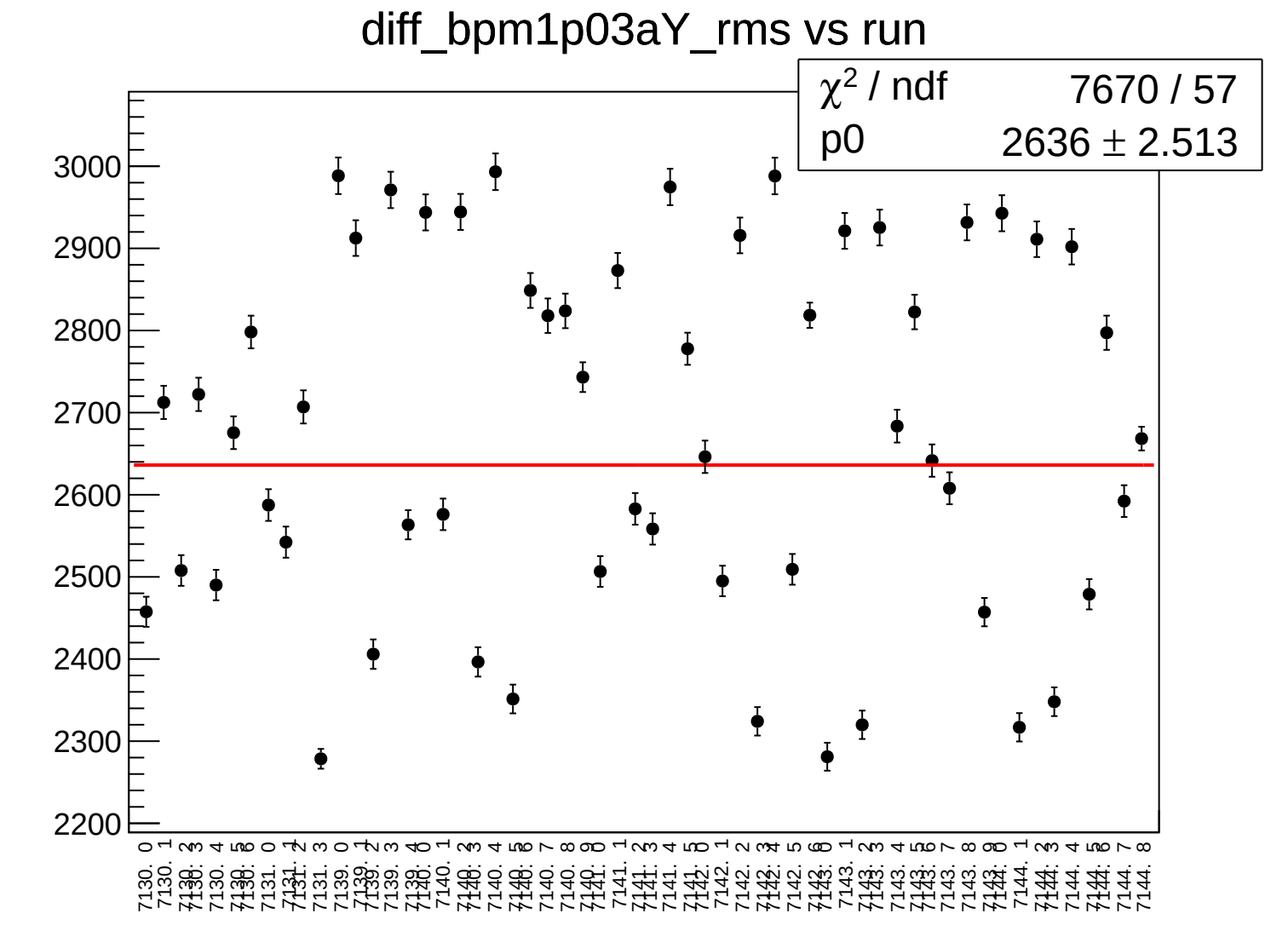

diff_bpm1p03aX_mean vs run
χ² / ndf 58.55 / 57
p0 3.84 ± 2.333
pull
Entries 58
Mean 328.5
Std Dev 298.4

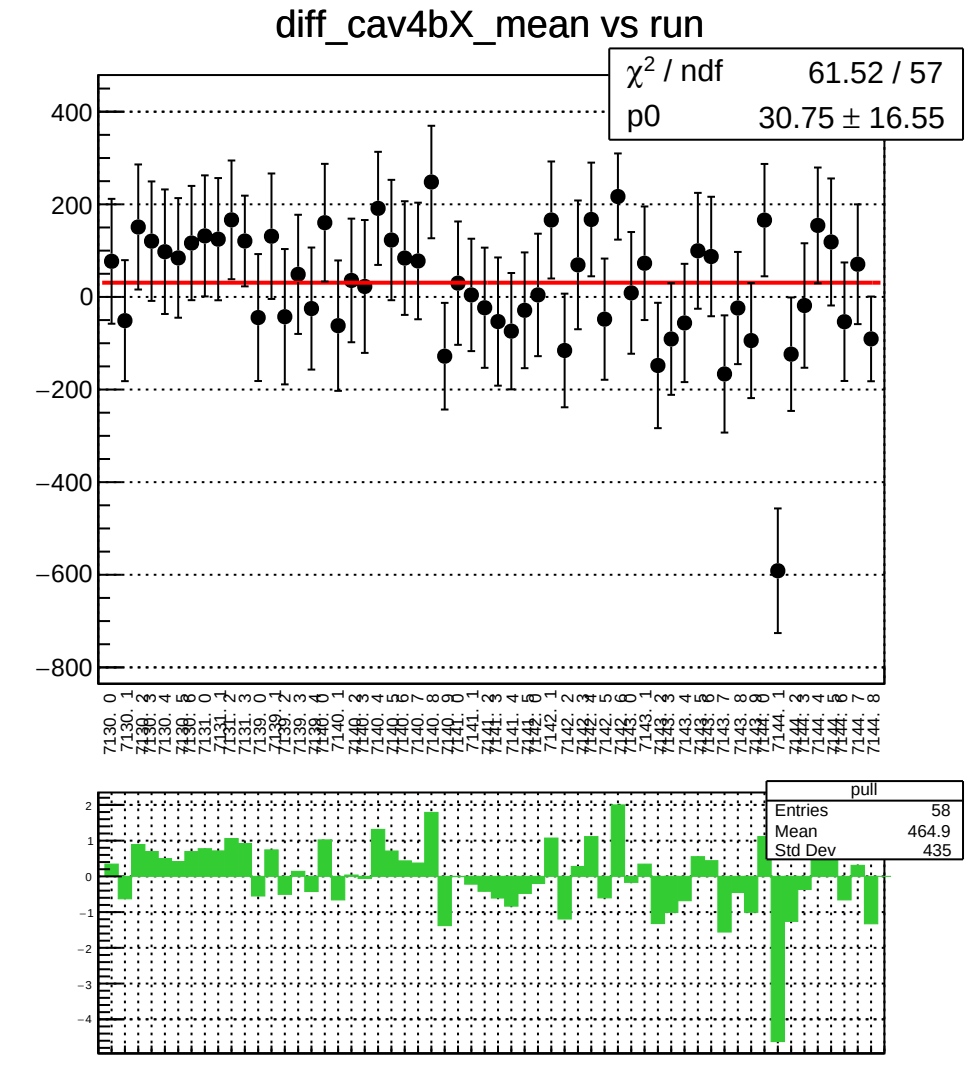

pull1D
Entries 58
Mean −0.01828
Std Dev 1.005

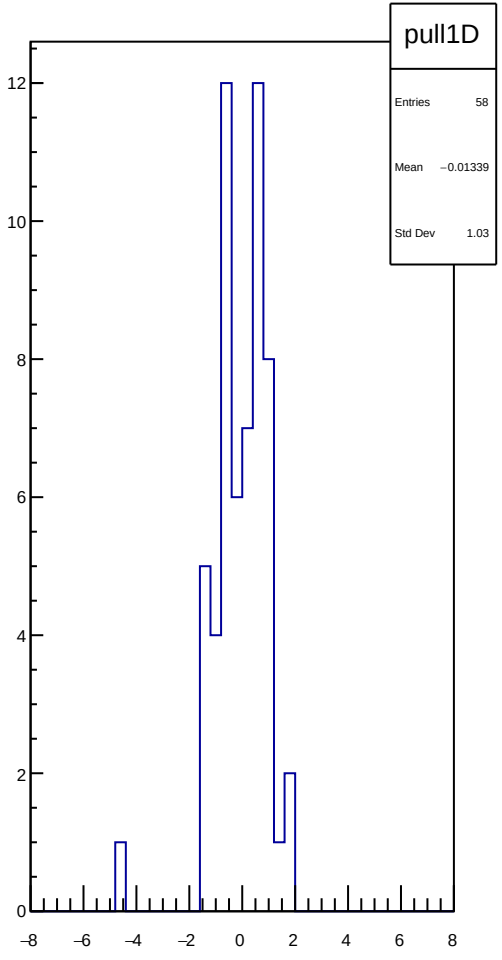

diff_bpm1p03aX_rms vs run
χ² / ndf 1878 / 57
p0 1735 ± 1.65
1950
1900
1850
1800
1750
1700
1650
1600

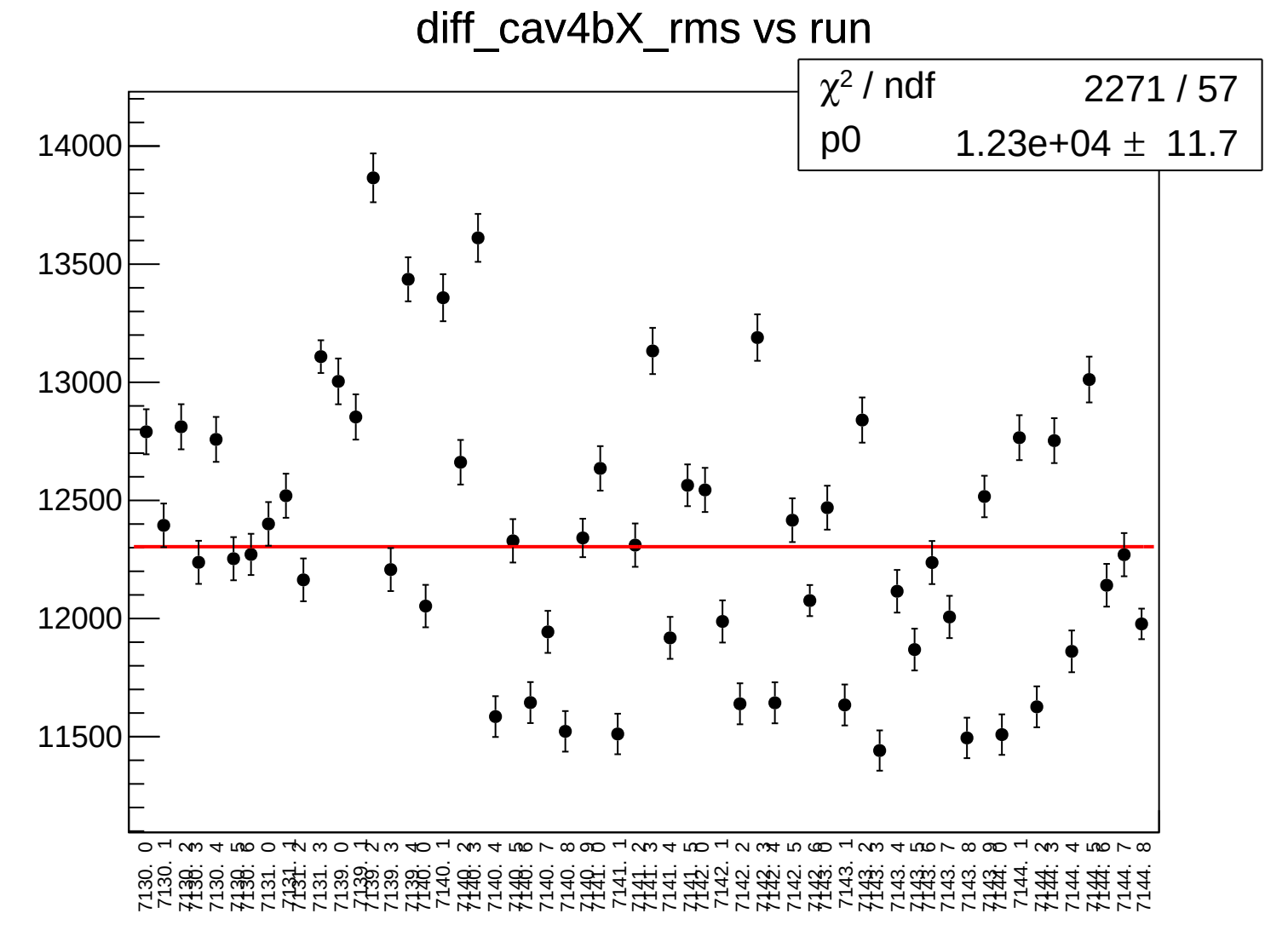

diff_bpm1p03aY_mean vs run
χ² / ndf 76.91 / 57
p0 −2.293 ± 3.554
pull
Entries 58
Mean −44.45
Std Dev 81.81

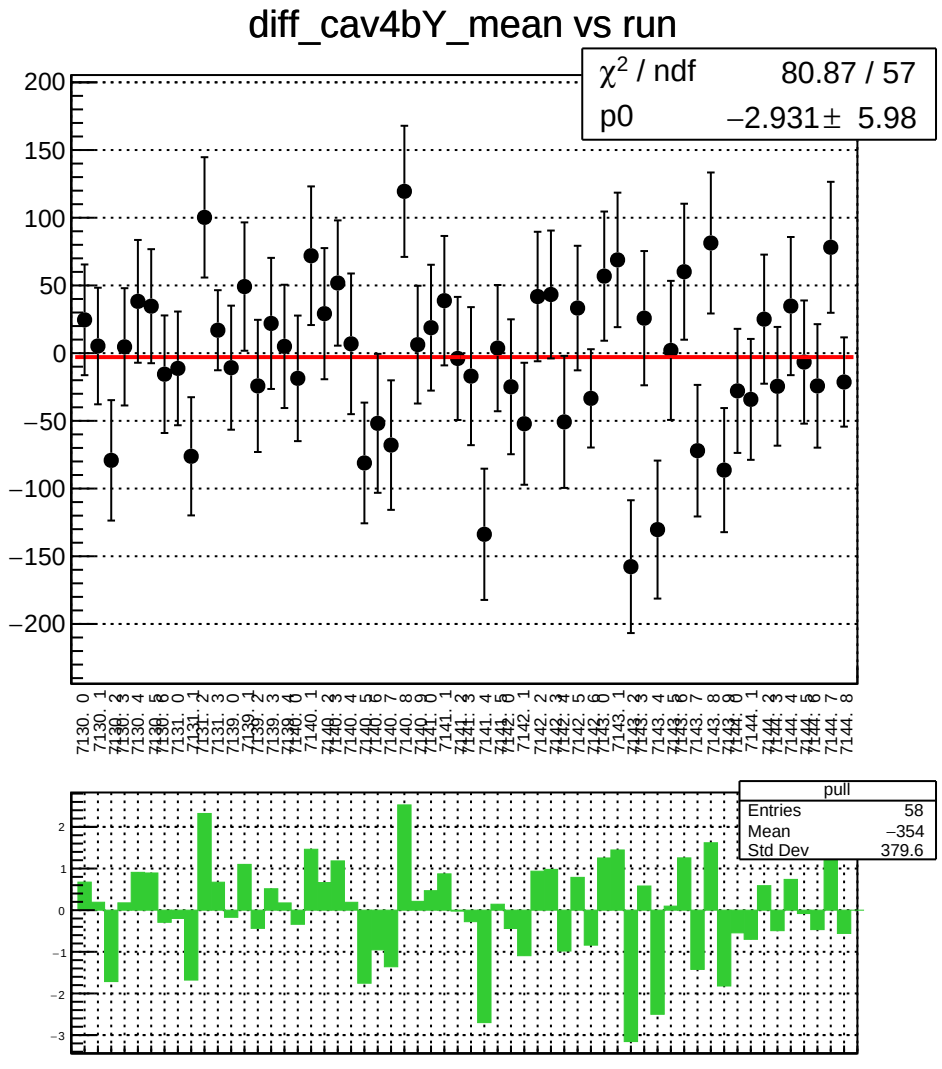

pull1D
Entries 58
Mean −0.02857
Std Dev 1.151

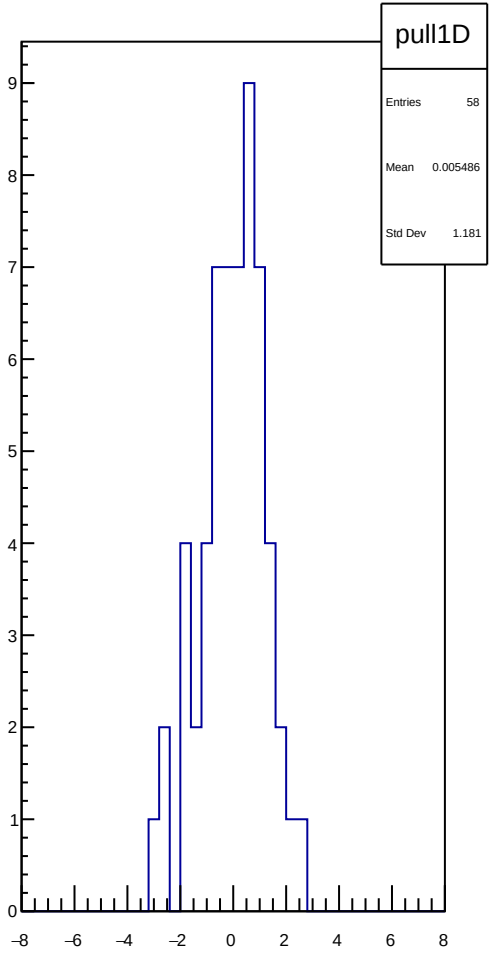

diff_bpm1p03aY_rms vs run
χ² / ndf 7670 / 57
p0 2636 ± 2.513
3000
2900
2800
2700
2600
2500
2400
2300
2200

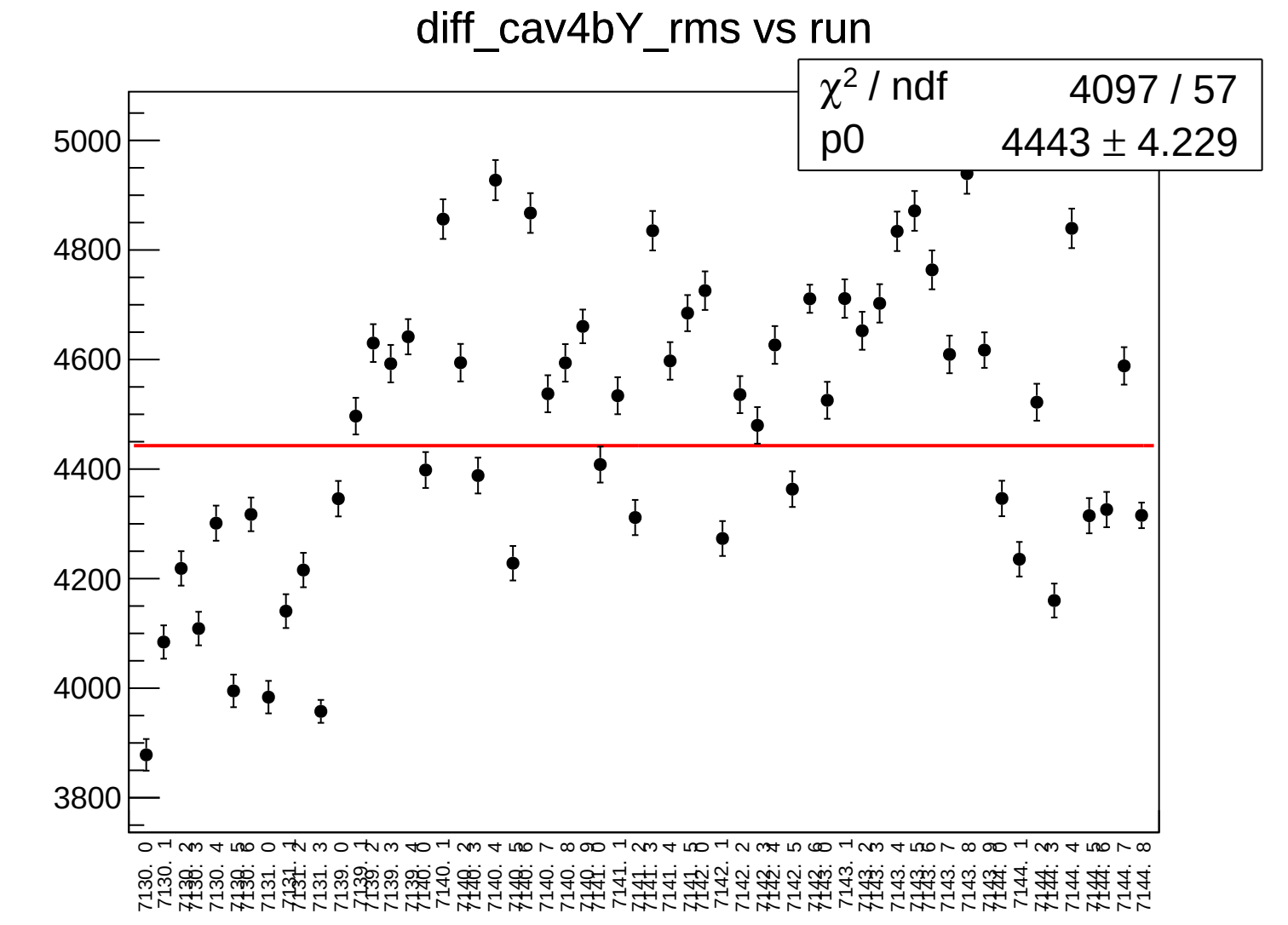

diff_cav4bX_mean vs run
χ² / ndf 61.52 / 57
p0 30.75 ± 16.55
pull
Entries 58
Mean 464.9
Std Dev 435

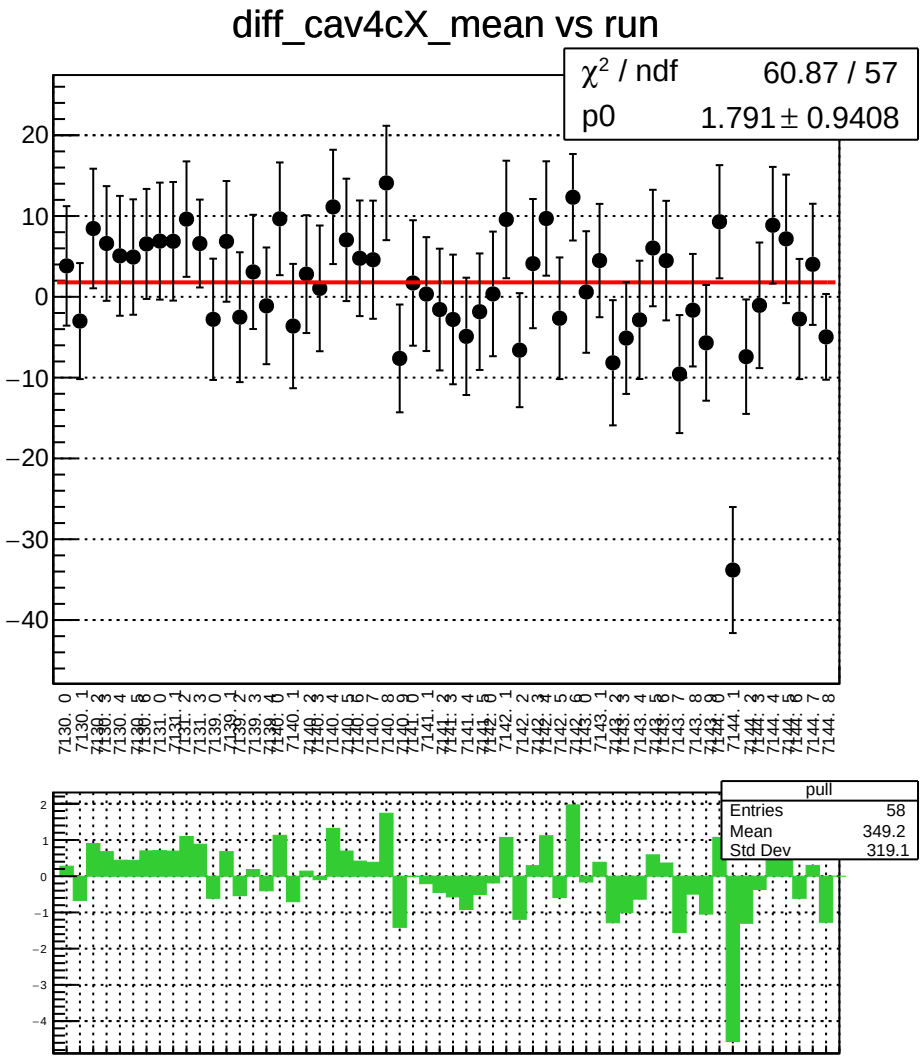

pull1D
Entries 58
Mean −0.01339
Std Dev 1.03

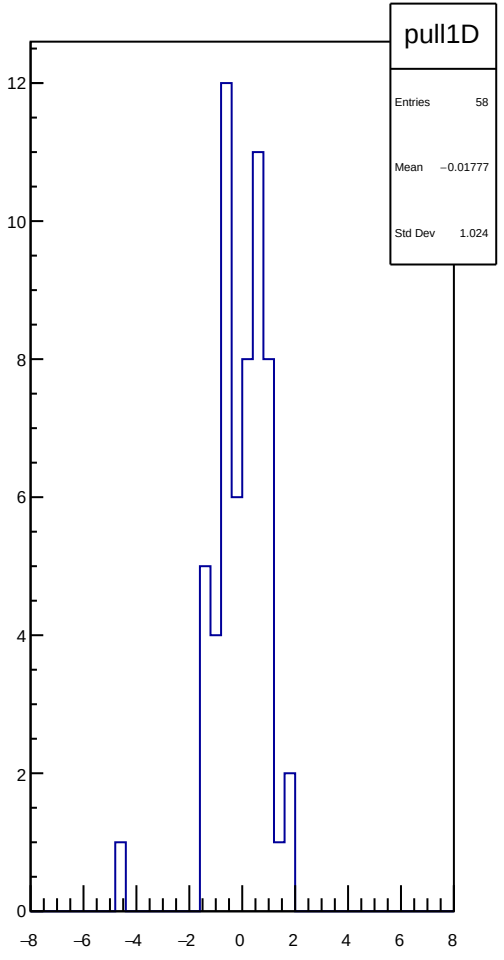

diff_cav4bX_rms vs run
χ² / ndf 2271 / 57
p0 1.23e+04 ± 11.7
14000
13500
13000
12500
12000
11500

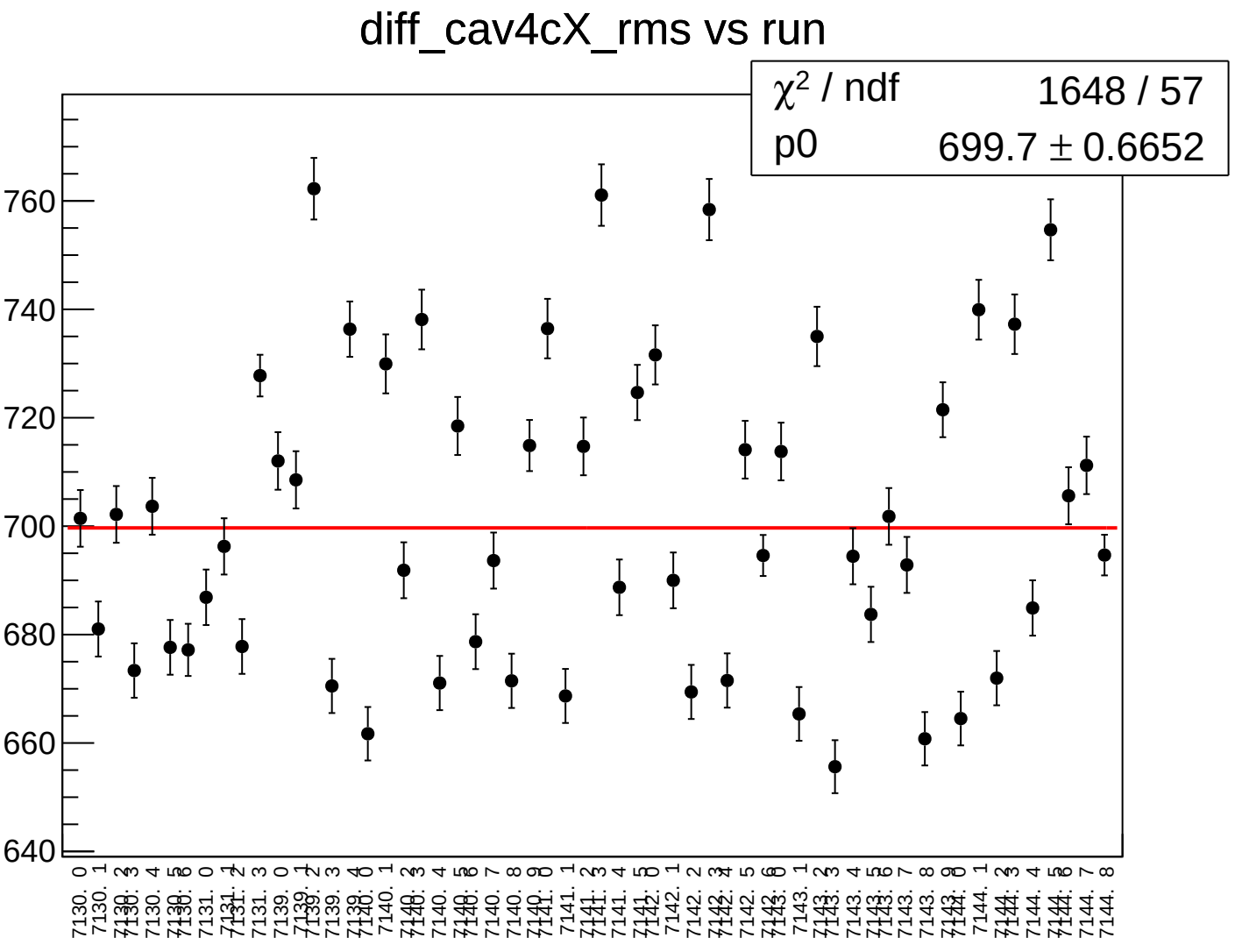

diff_cav4bY_mean vs run
χ² / ndf 80.87 / 57
p0 −2.931 ± 5.98
pull
Entries 58
Mean −354
Std Dev 379.6

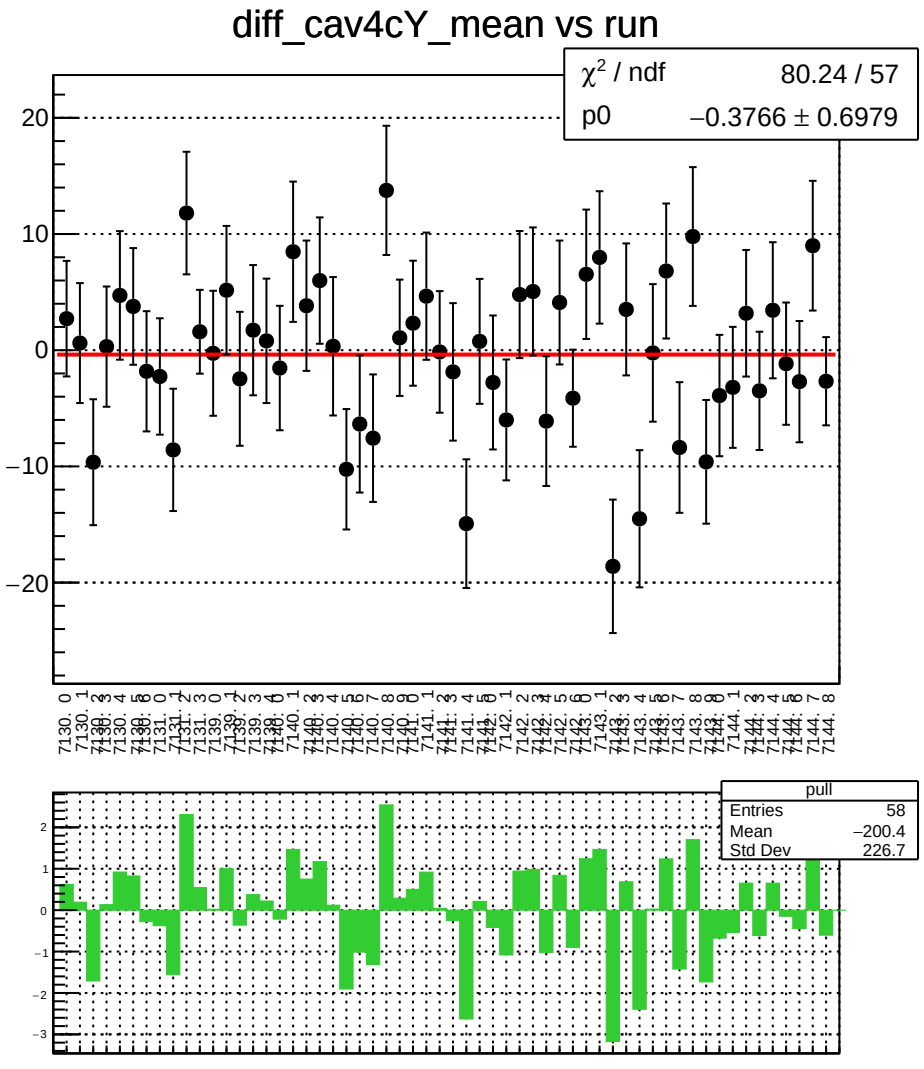

pull1D
Entries 58
Mean 0.005486
Std Dev 1.181

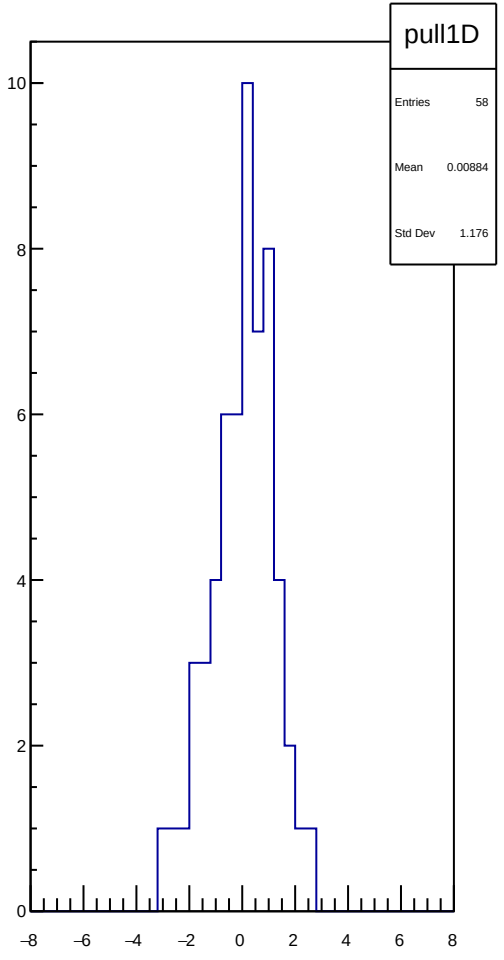

diff_cav4bY_rms vs run
χ² / ndf 4097 / 57
p0 4443 ± 4.229
5000
4800
4600
4400
4200
4000
3800

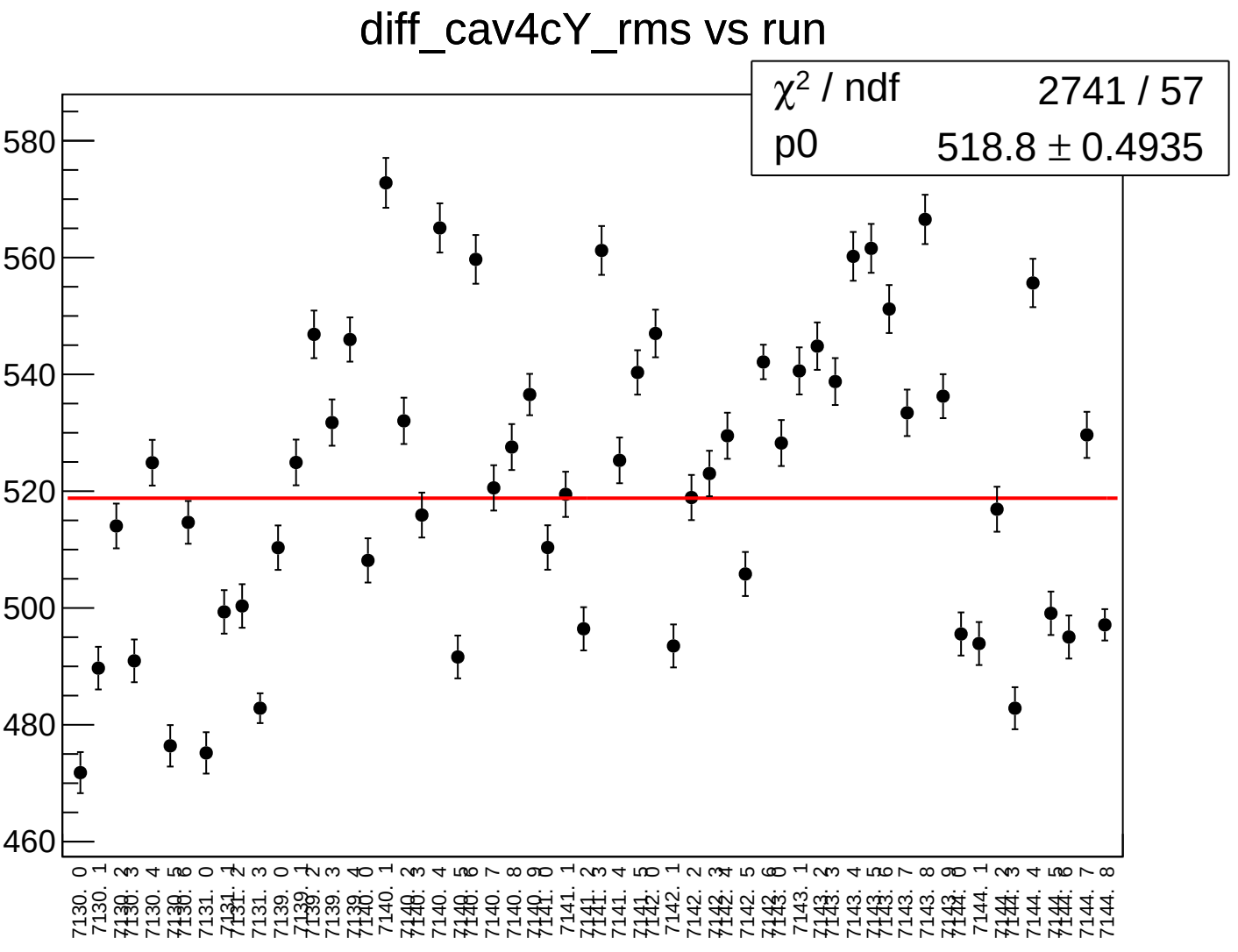

diff_cav4cX_mean vs run
χ² / ndf 60.87 / 57
p0 1.791 ± 0.9408
pull
Entries 58
Mean 349.2
Std Dev 319.1


pull1D
Entries 58
Mean −0.01777
Std Dev 1.024


diff_cav4cX_rms vs run
χ² / ndf 1648 / 57
p0 699.7 ± 0.6652
760
740
720
700
680
660
640
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8


diff_cav4cY_mean vs run
χ² / ndf 80.24 / 57
p0 −0.3766 ± 0.6979
pull
Entries 58
Mean −200.4
Std Dev 226.7


pull1D
Entries 58
Mean 0.00884
Std Dev 1.176


diff_cav4cY_rms vs run
χ² / ndf 2741 / 57
p0 518.8 ± 0.4935
580
560
540
520
500
480
460
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
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7140. 8
7140. 9
7141. 0
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7141. 2
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7142. 1
7142. 2
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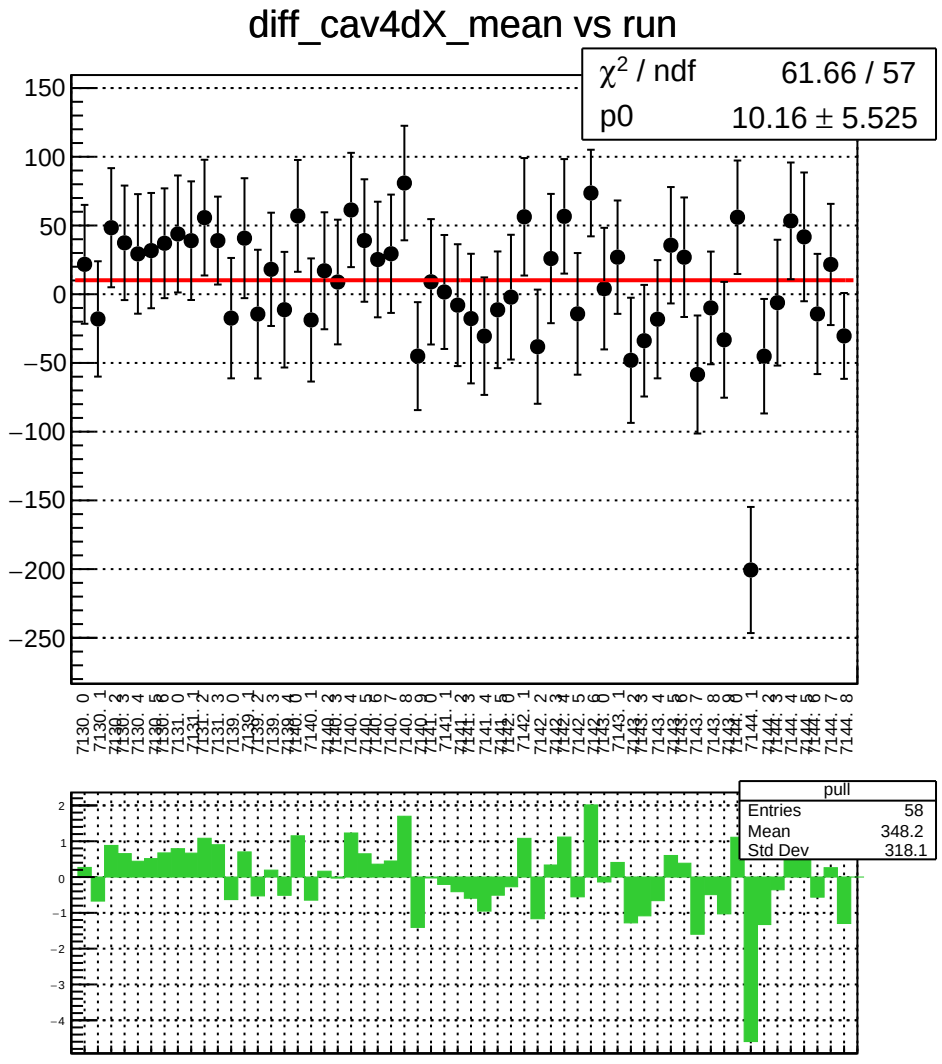
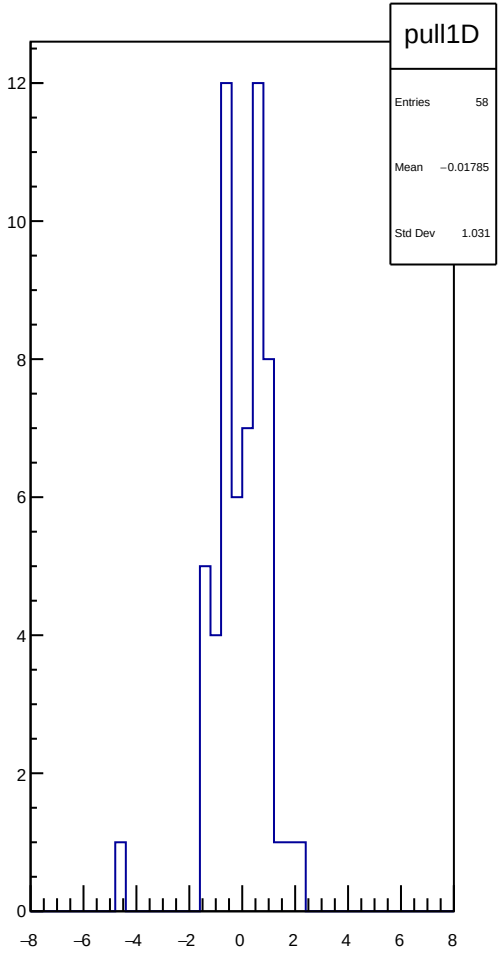
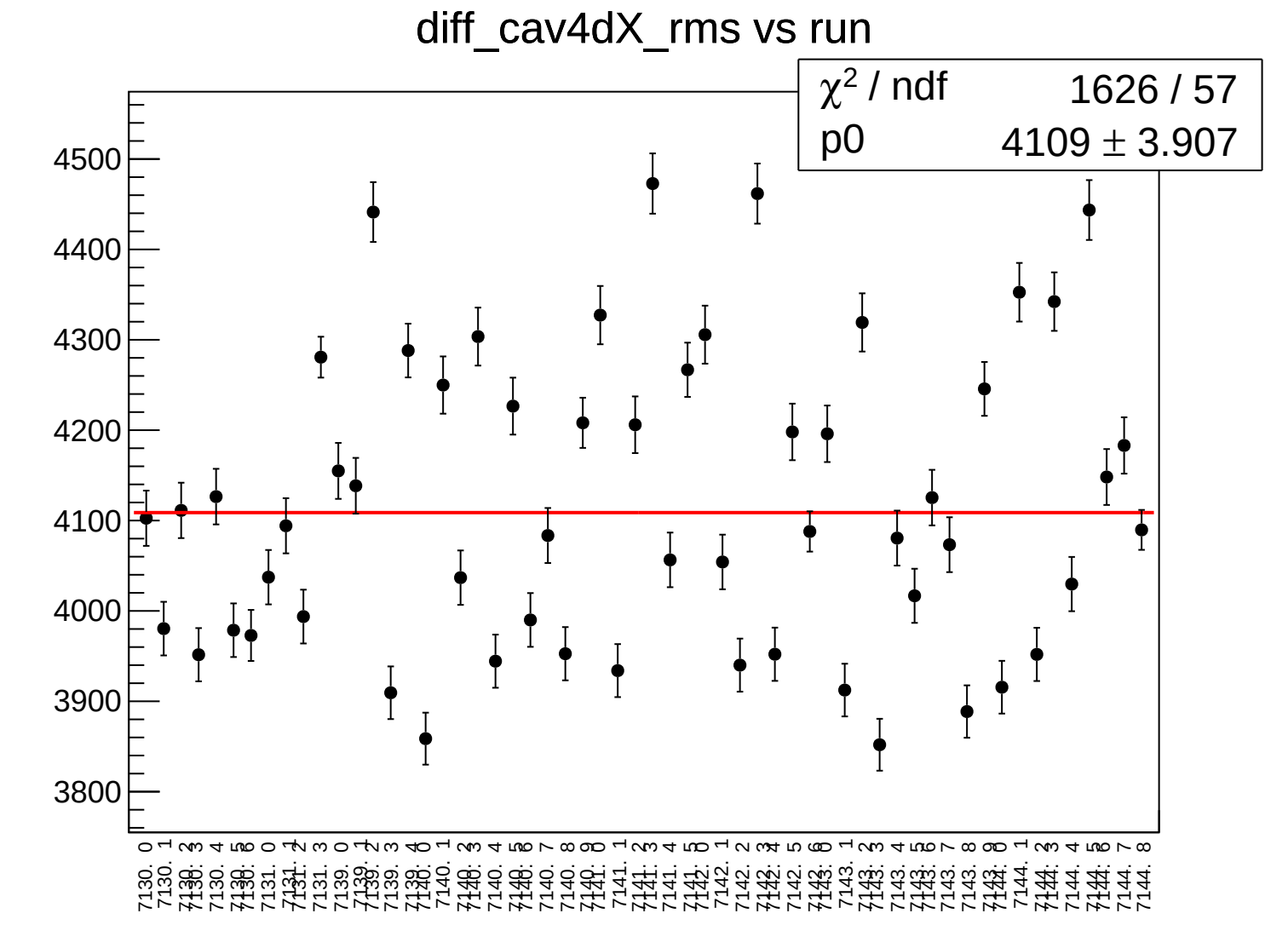
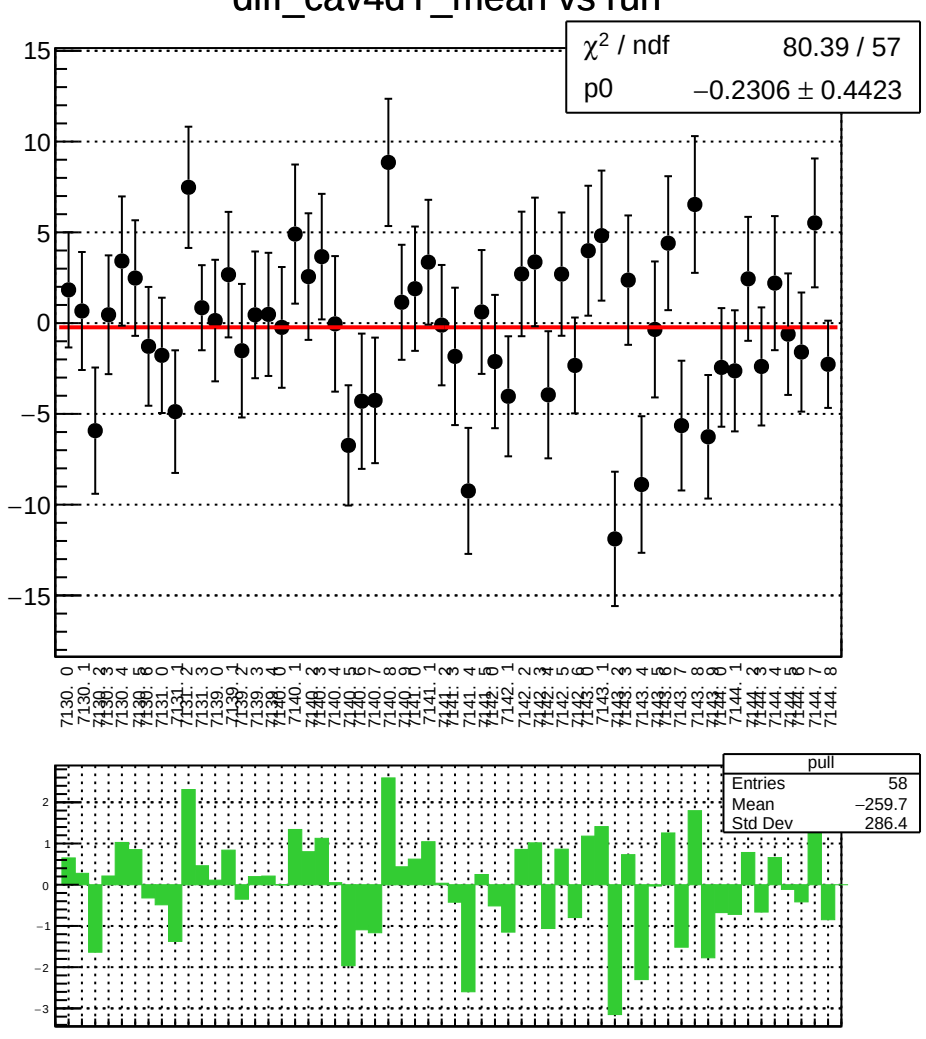
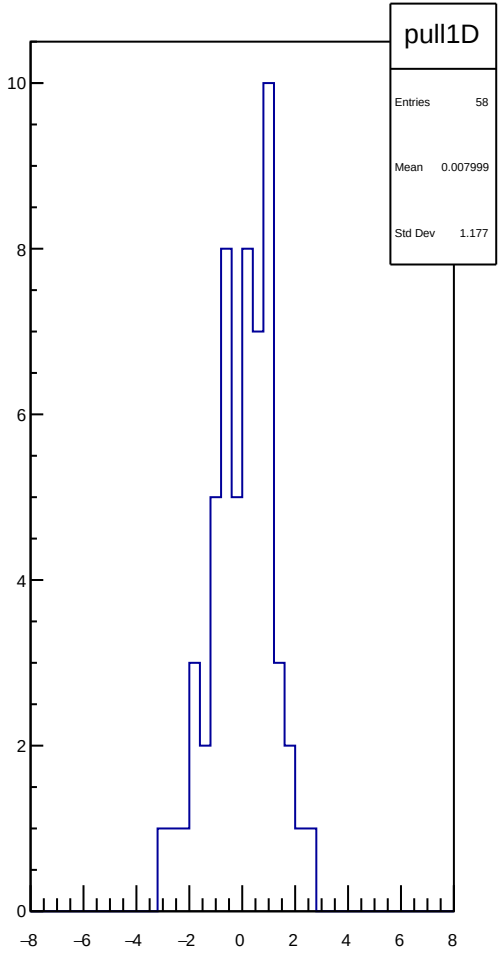
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

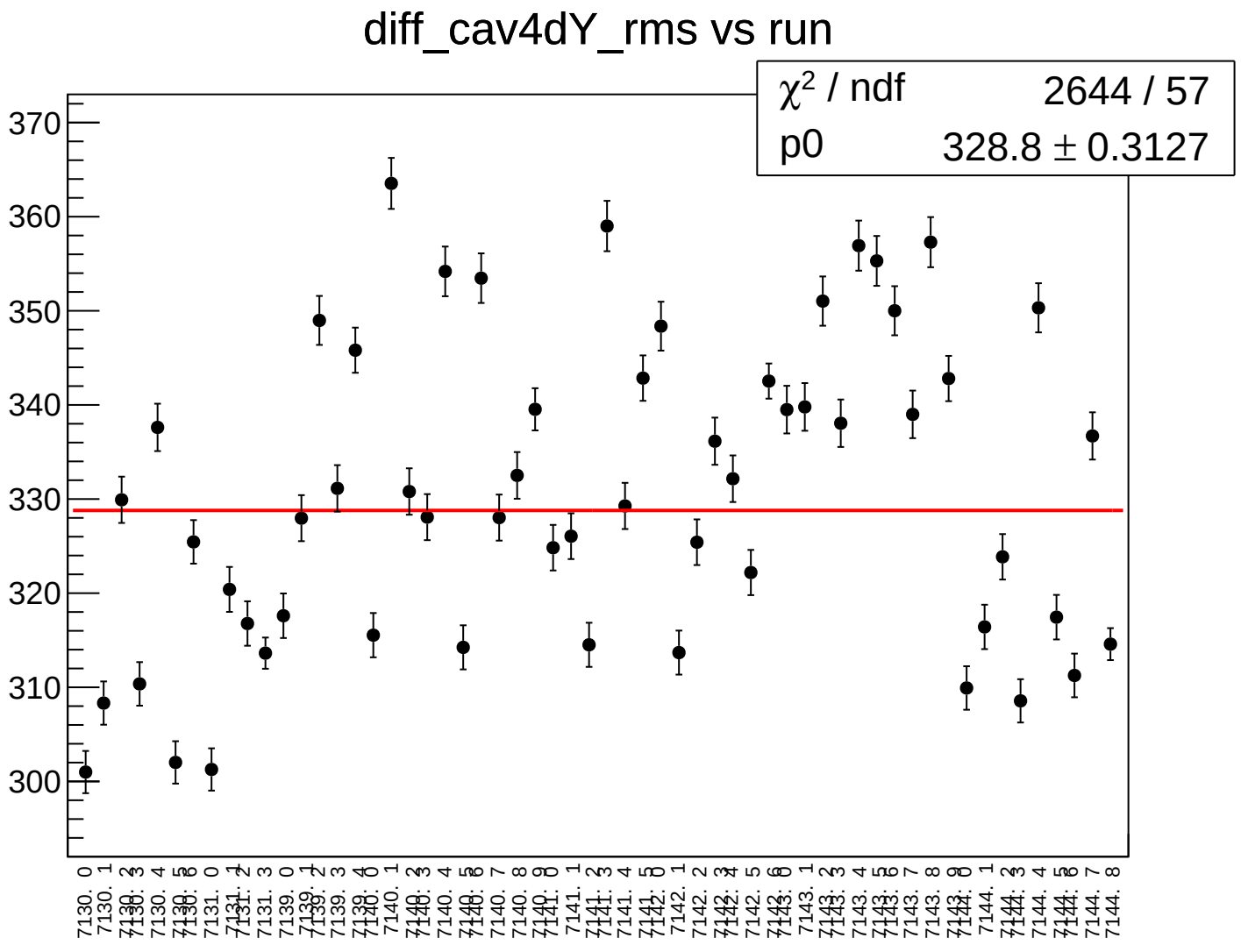

diff_cav4dX_mean vs run
χ^2 / ndf 61.66 / 57
p0 10.16 ± 5.525
pull
Entries 58
Mean 348.2
Std Dev 318.1

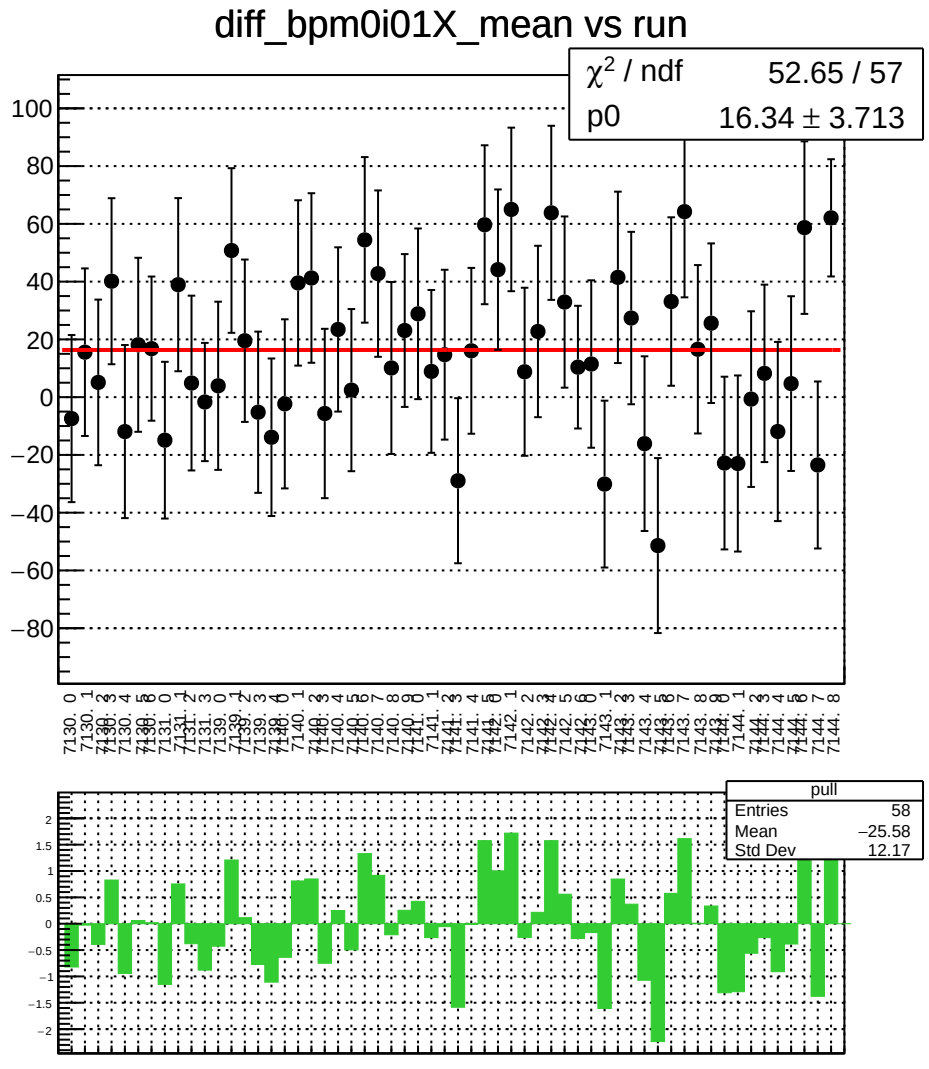

pull1D
Entries 58
Mean −0.01785
Std Dev 1.031

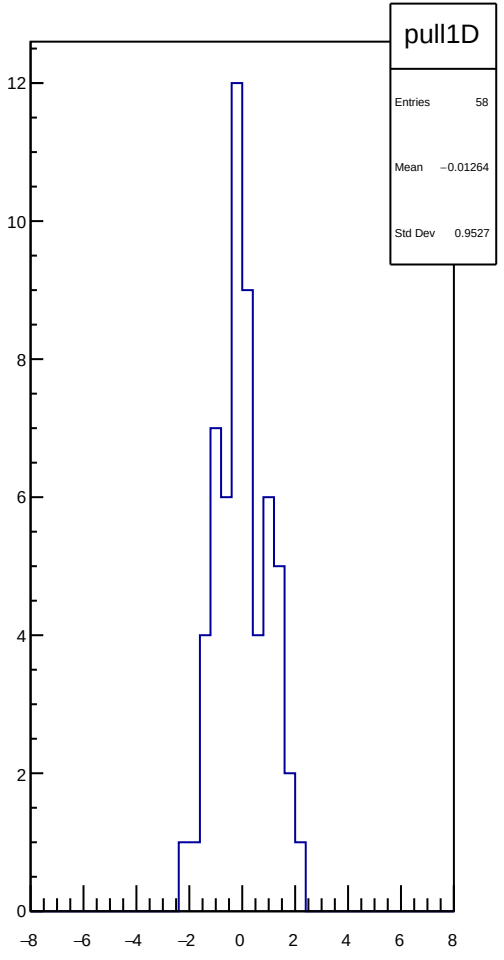

diff_cav4dX_rms vs run
χ² / ndf 1626 / 57
p0 4109 ± 3.907
4500
4400
4300
4200
4100
4000
3900
3800

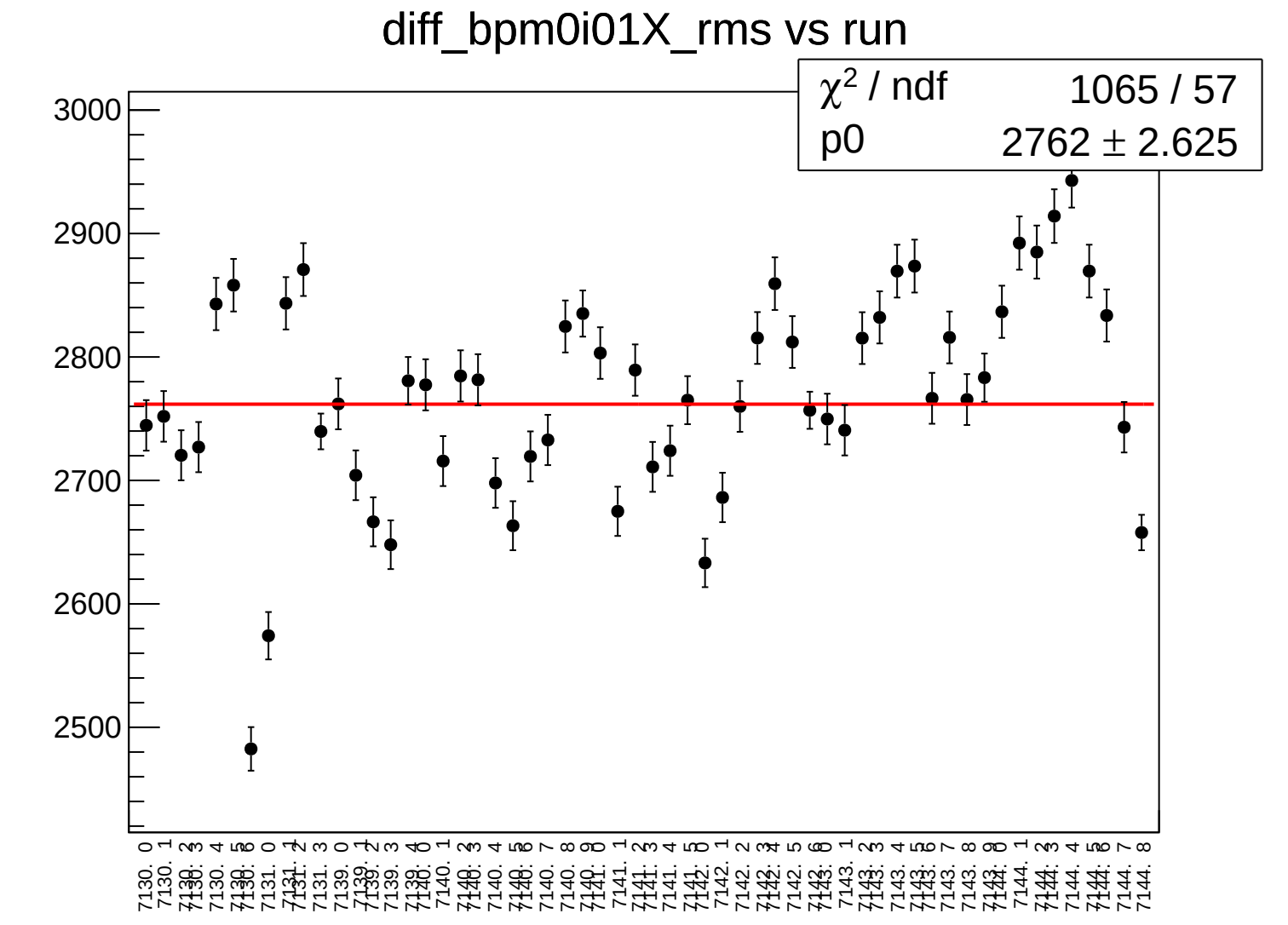

diff_cav4dY_mean vs run
χ² / ndf 80.39 / 57
p0 −0.2306 ± 0.4423
pull
Entries 58
Mean −259.7
Std Dev 286.4

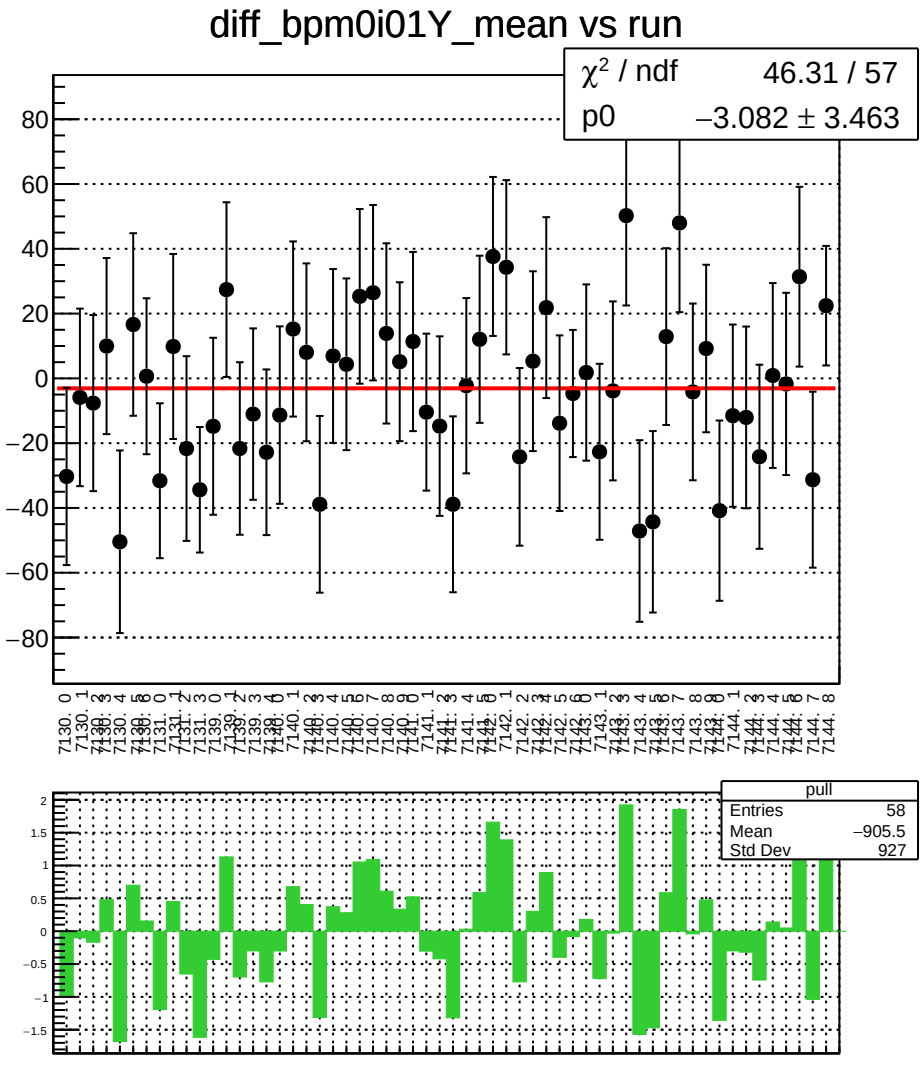

pull1D
Entries 58
Mean 0.007999
Std Dev 1.177

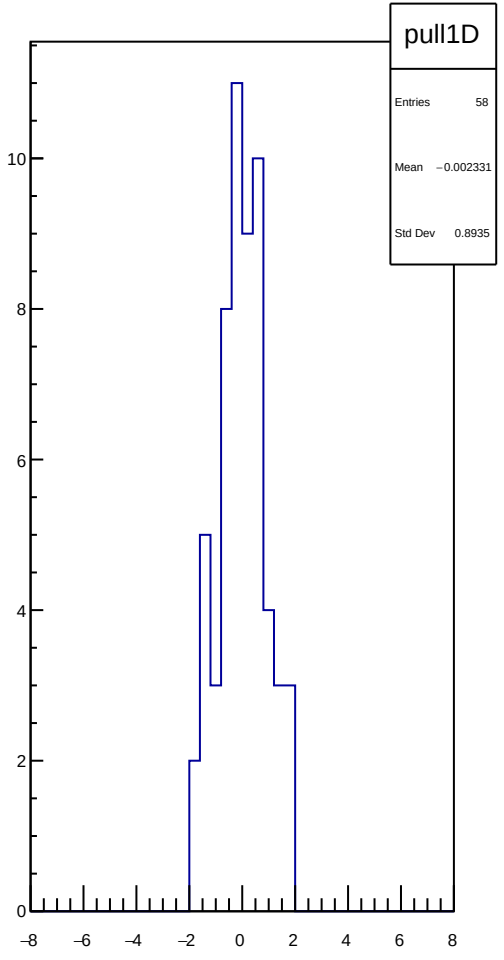

diff_cav4dY_rms vs run
χ² / ndf 2644 / 57
p0 328.8 ± 0.3127
370
360
350
340
330
320
310
300
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

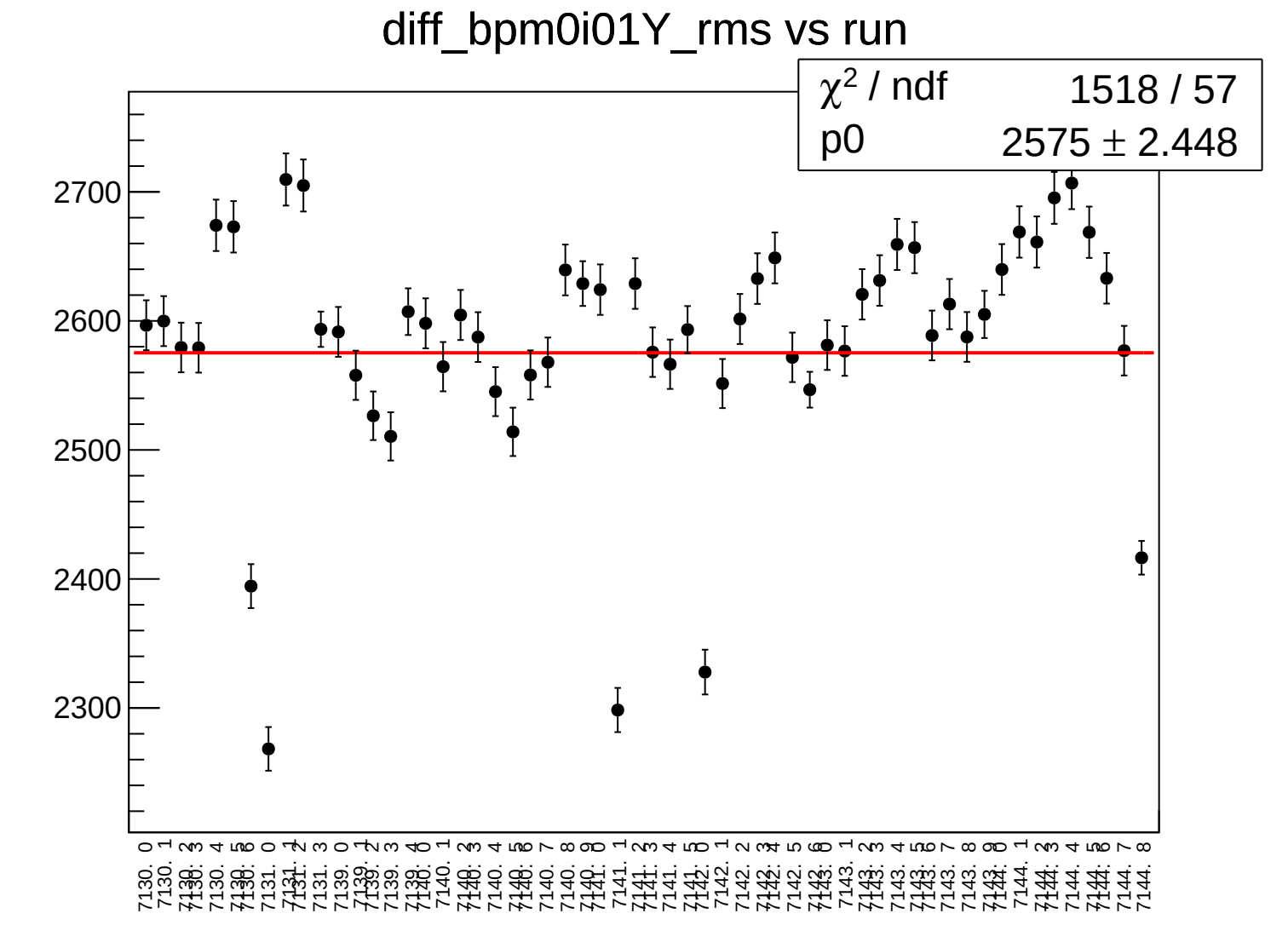

diff_bpm0i01X_mean vs run
χ^2 / ndf 52.65 / 57
p0 16.34 ± 3.713
pull
Entries 58
Mean −25.58
Std Dev 12.17

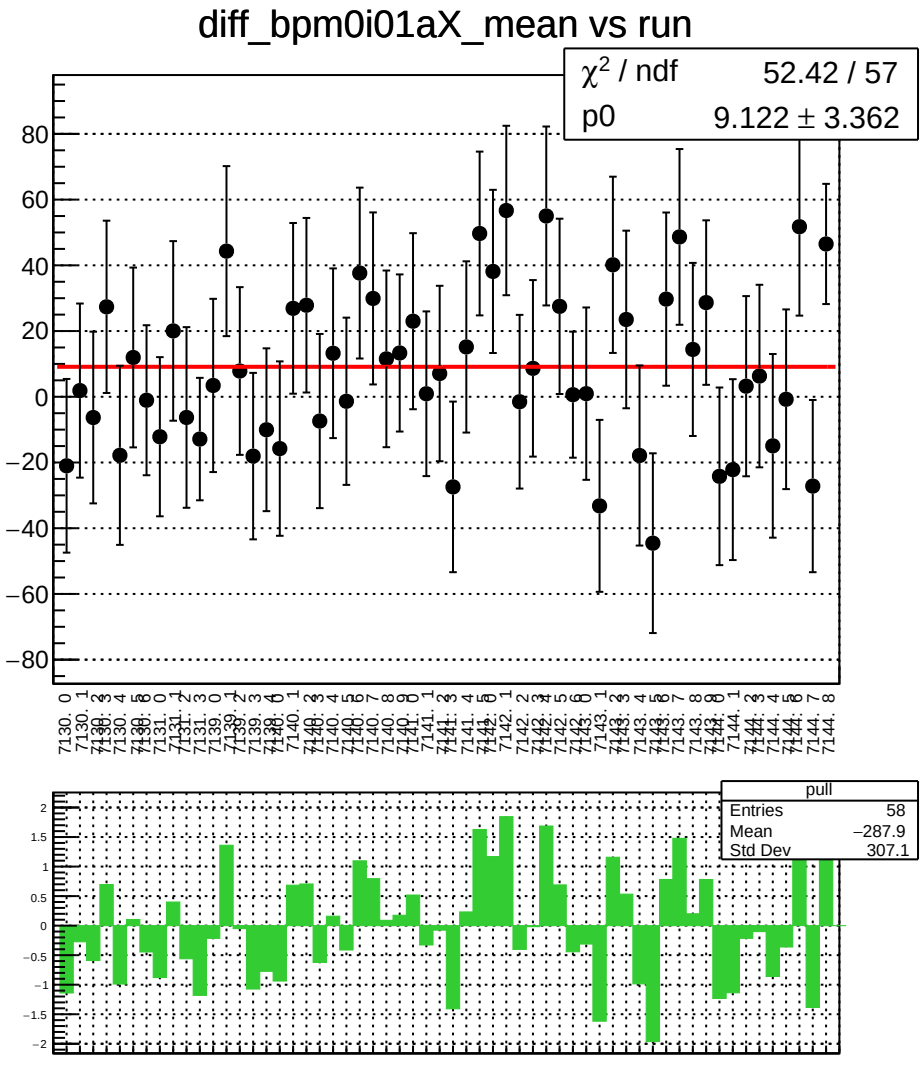

pull1D
Entries 58
Mean −0.01264
Std Dev 0.9527

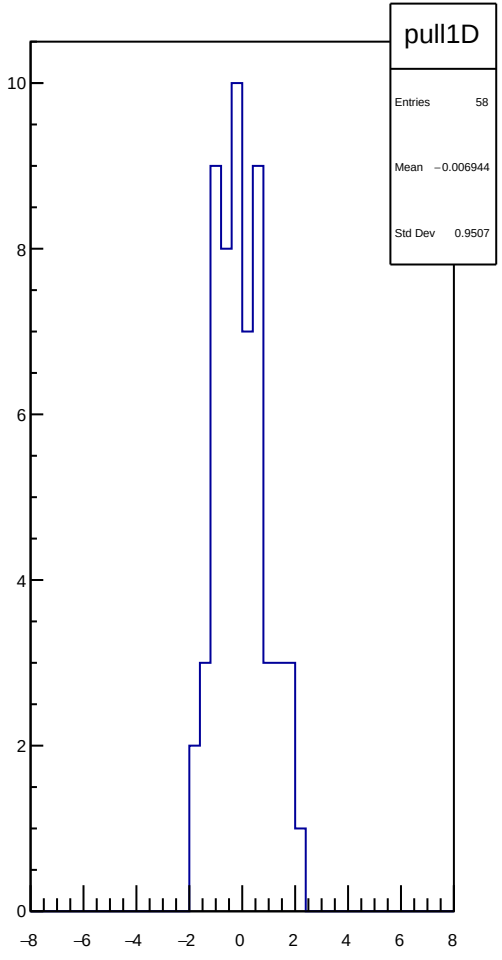

diff_bpm0i01X_rms vs run
χ² / ndf 1065 / 57
p0 2762 ± 2.625
3000
2900
2800
2700
2600
2500

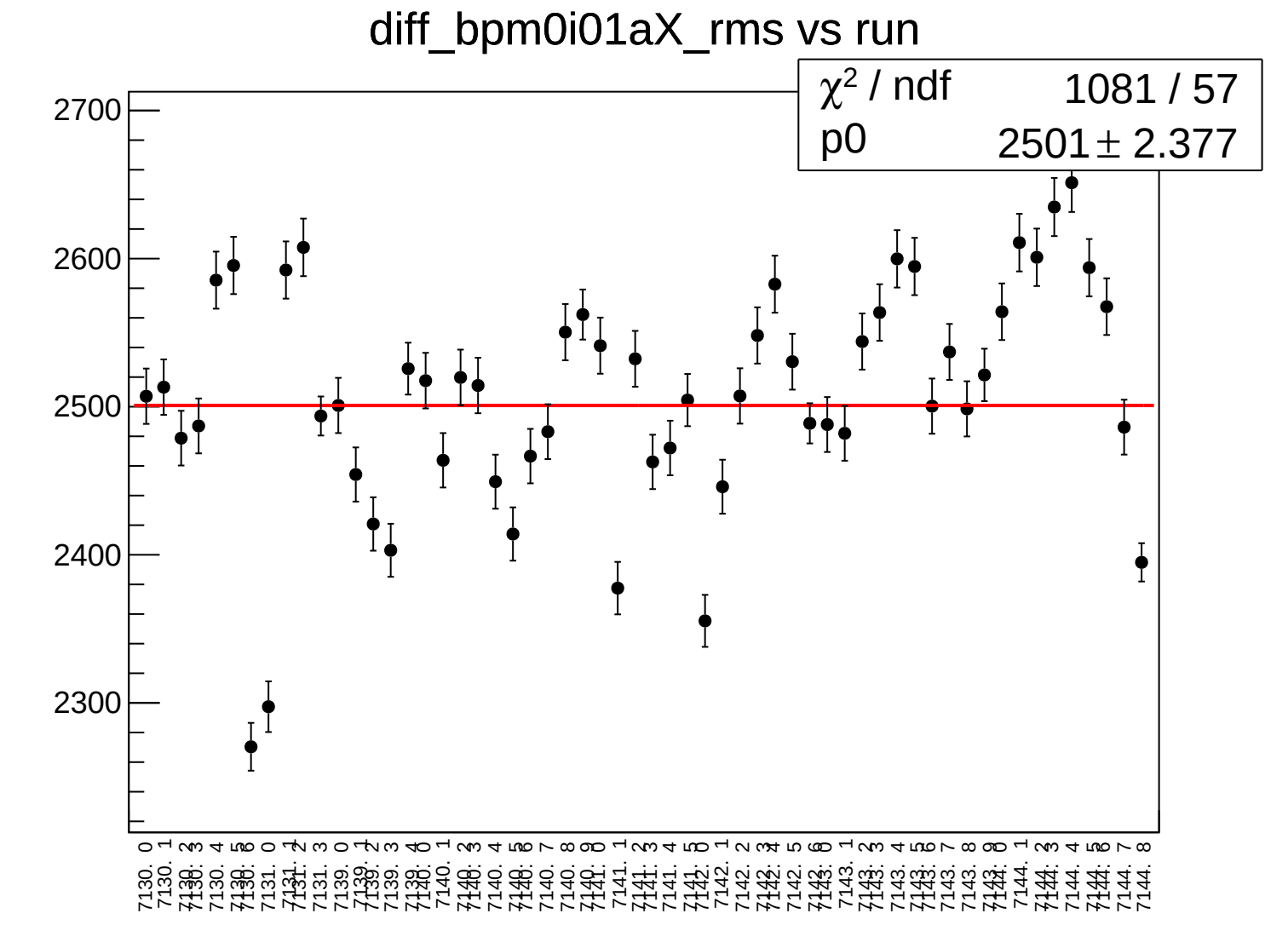

diff_bpm0i01Y_mean vs run
χ² / ndf 46.31 / 57
p0 −3.082 ± 3.463
pull
Entries 58
Mean −905.5
Std Dev 927

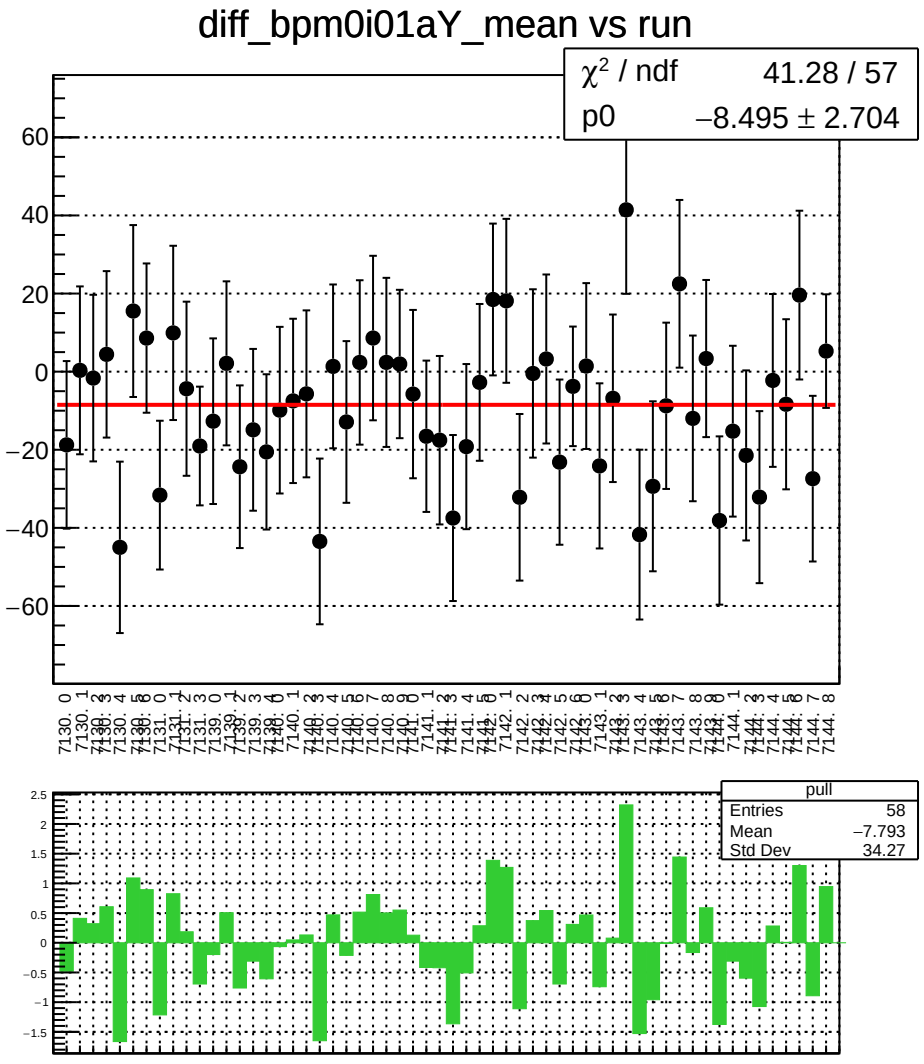

pull1D
Entries 58
Mean −0.002331
Std Dev 0.8935

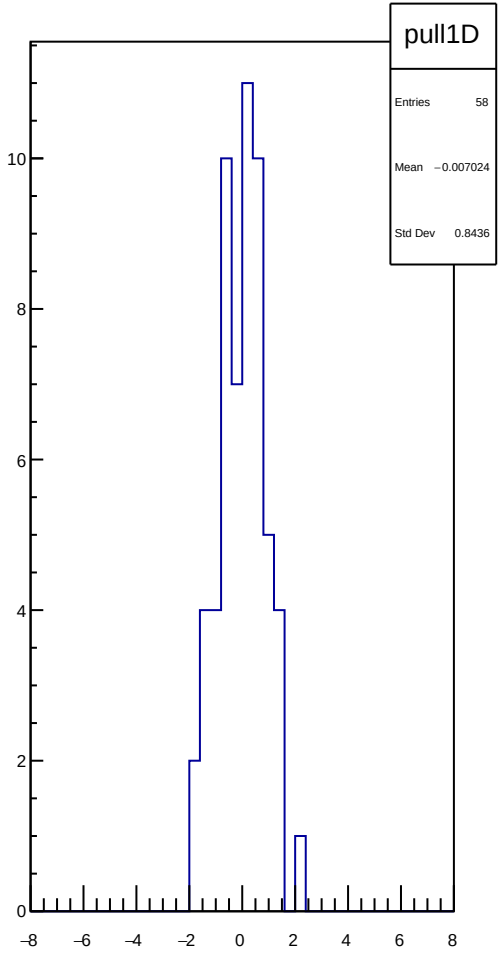

diff_bpm0i01Y_rms vs run
χ² / ndf 1518 / 57
p0 2575 ± 2.448
2700
2600
2500
2400
2300

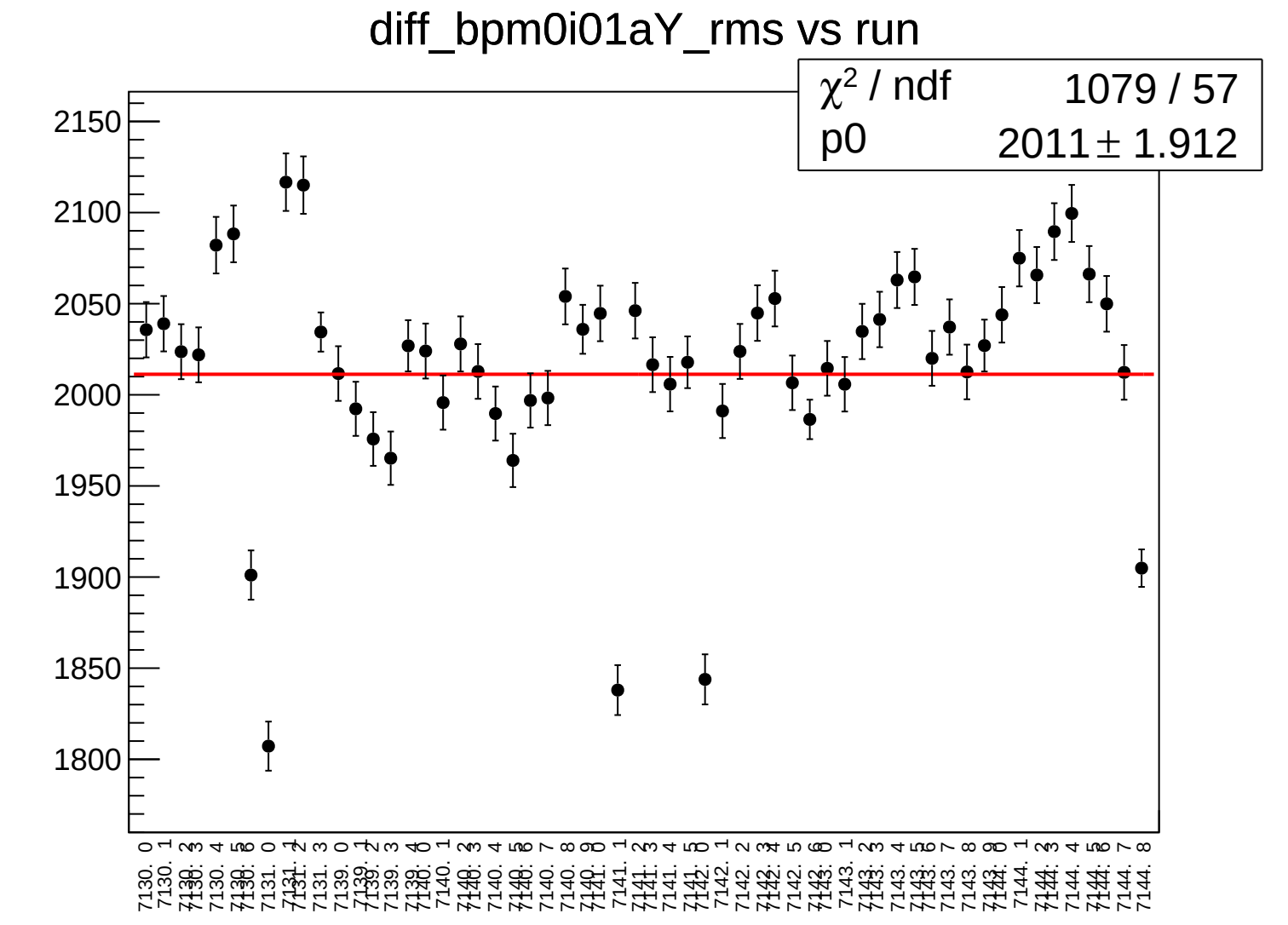

diff_bpm0i01aX_mean vs run
χ² / ndf 52.42 / 57
p0 9.122 ± 3.362
pull
Entries 58
Mean −287.9
Std Dev 307.1

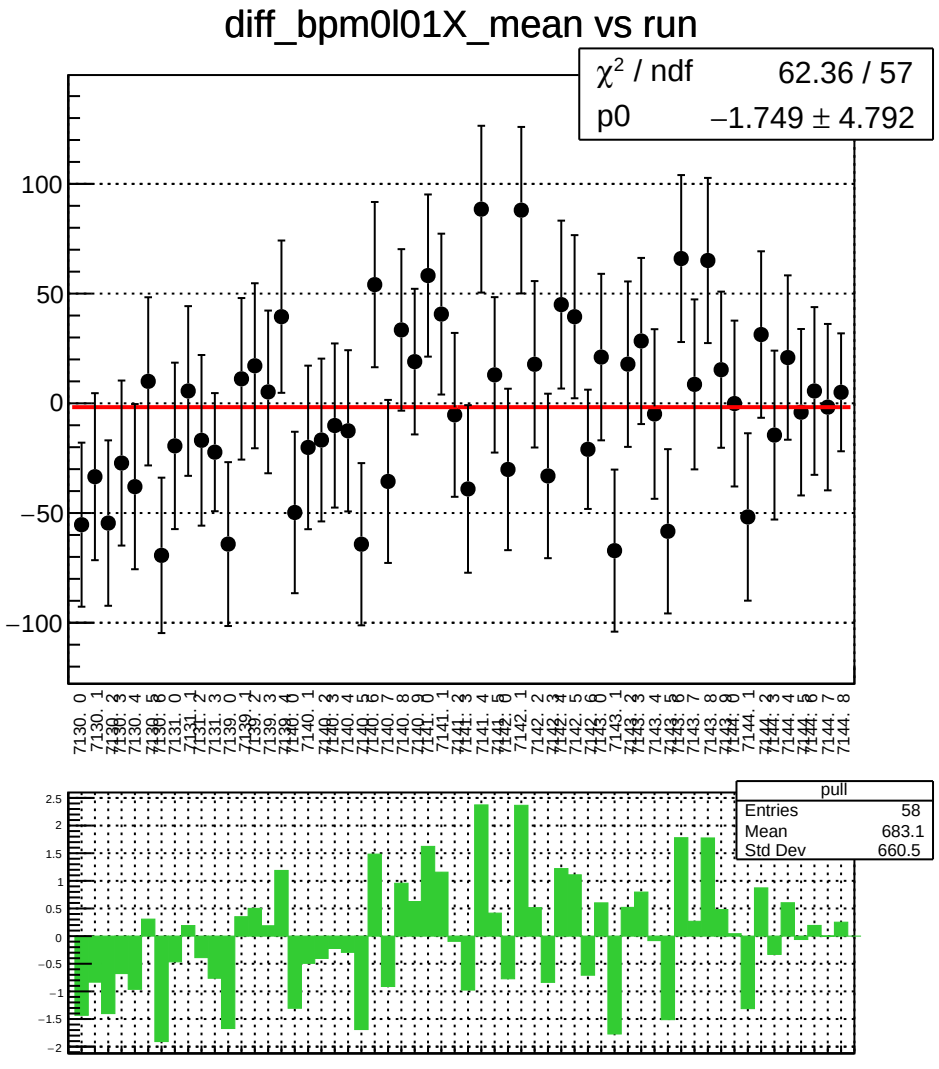

pull1D
Entries 58
Mean −0.006944
Std Dev 0.9507

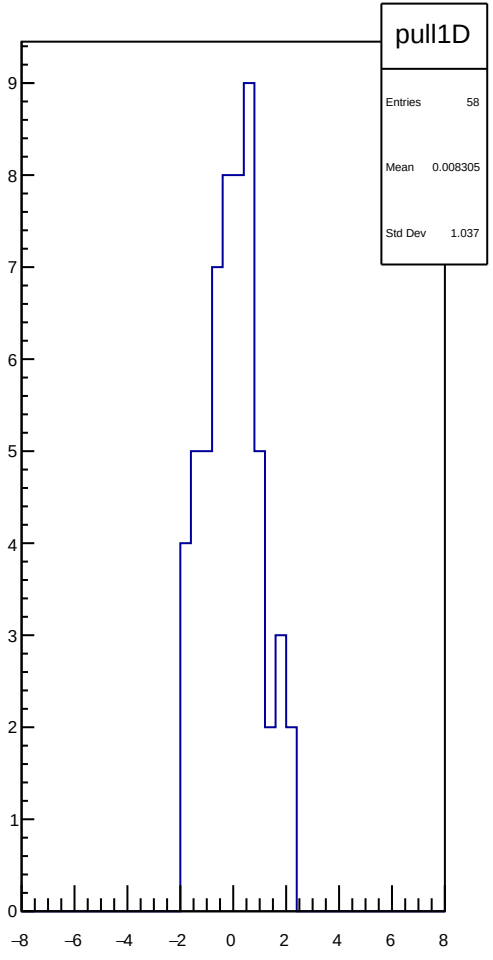

diff_bpm0i01aX_rms vs run
χ² / ndf 1081 / 57
p0 2501 ± 2.377
2700
2600
2500
2400
2300

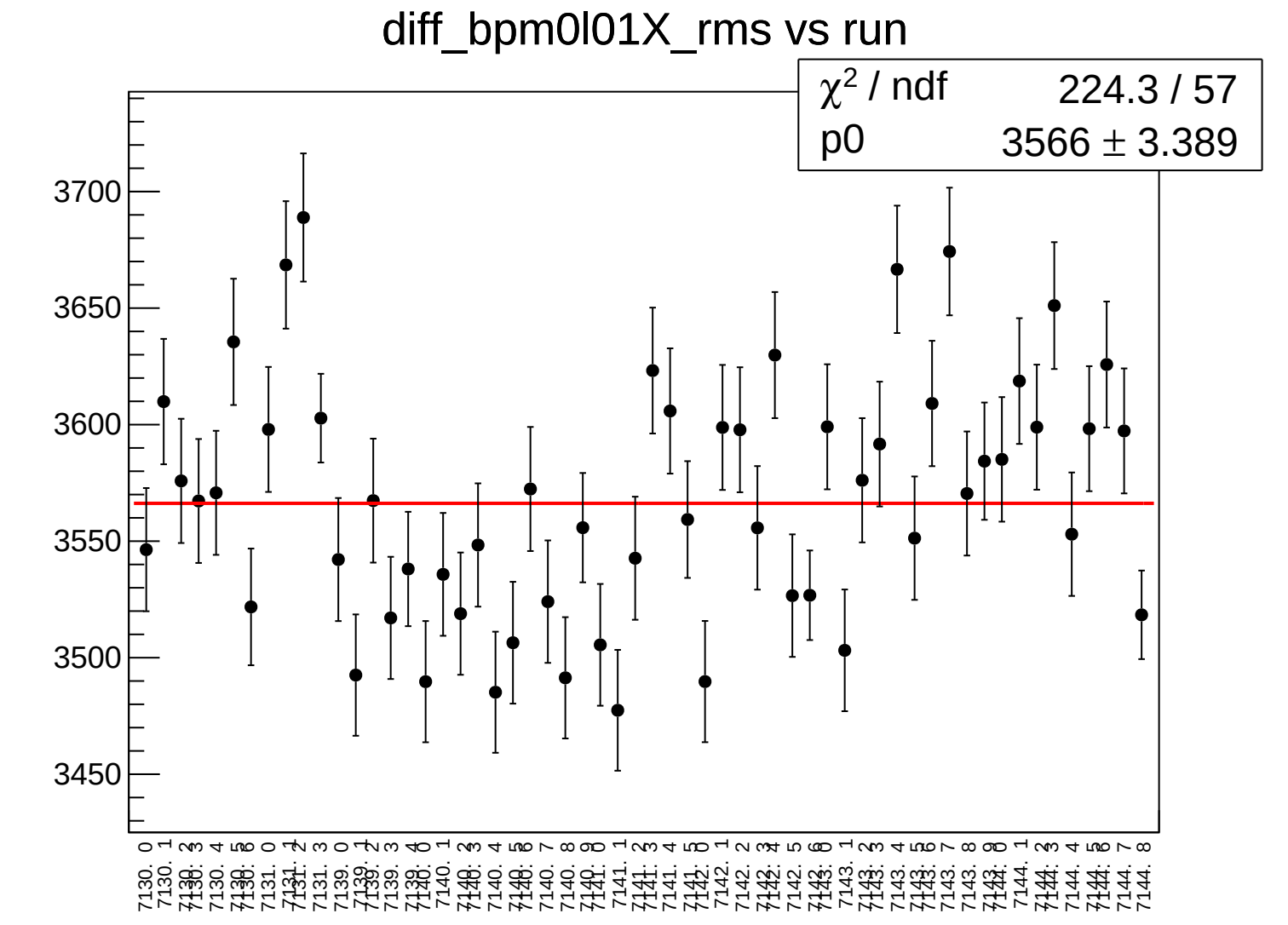

diff_bpm0i01aY_mean vs run
χ^2 / ndf 41.28 / 57
p0 −8.495 ± 2.704
pull
Entries 58
Mean −7.793
Std Dev 34.27

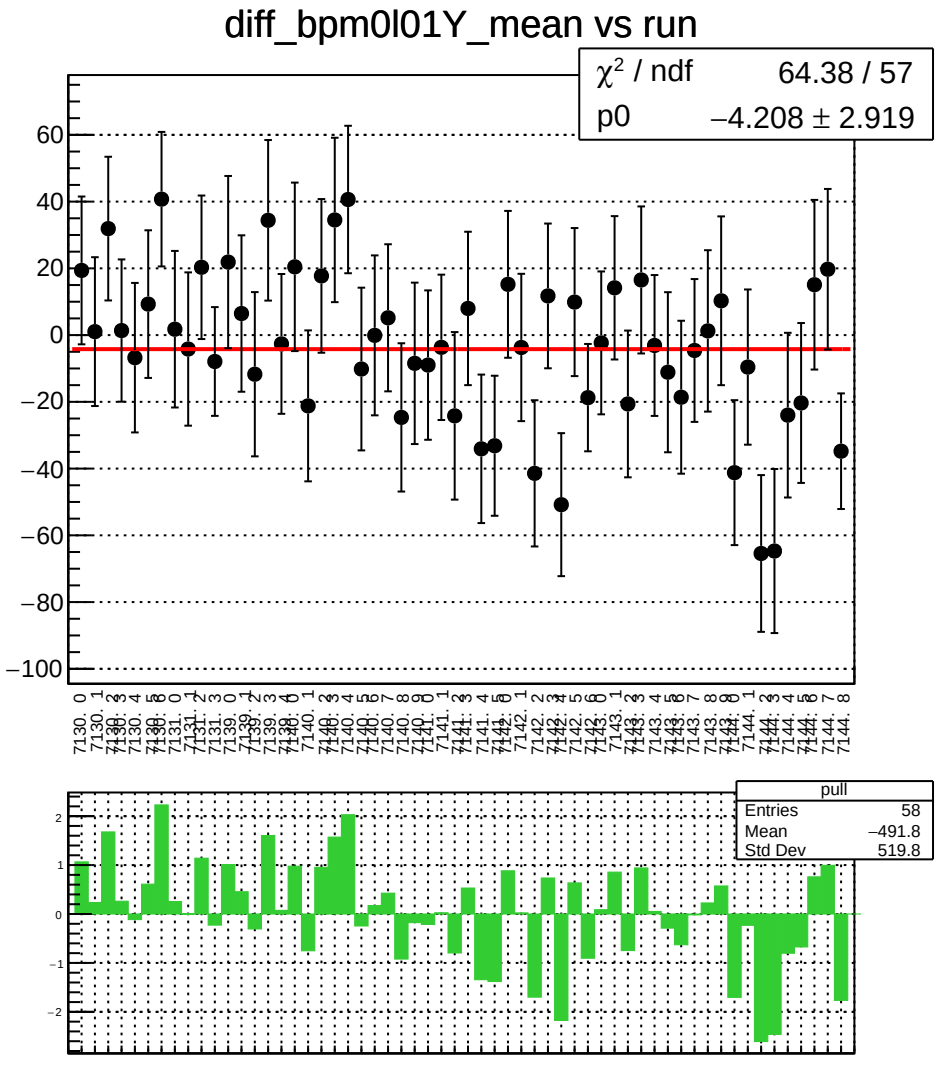

pull1D
Entries 58
Mean −0.007024
Std Dev 0.8436

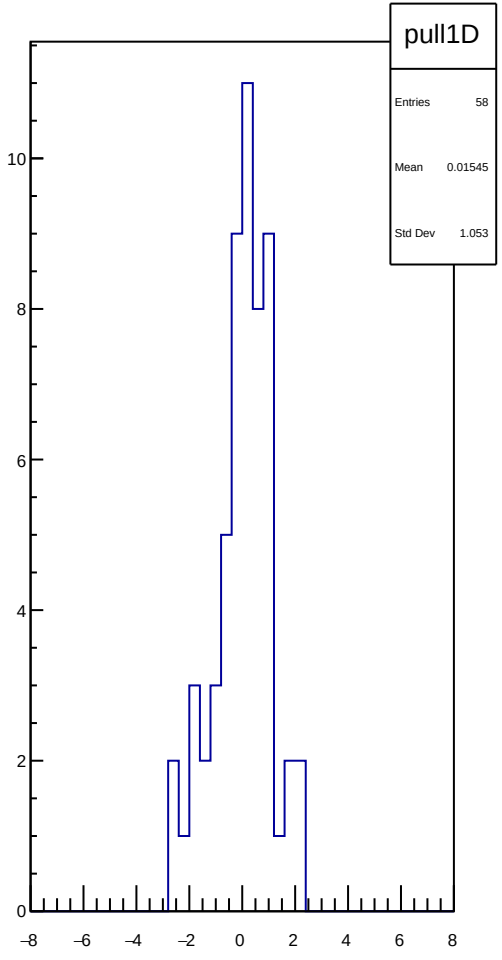

diff_bpm0i01aY_rms vs run
χ² / ndf 1079 / 57
p0 2011 ± 1.912
2150
2100
2050
2000
1950
1900
1850
1800

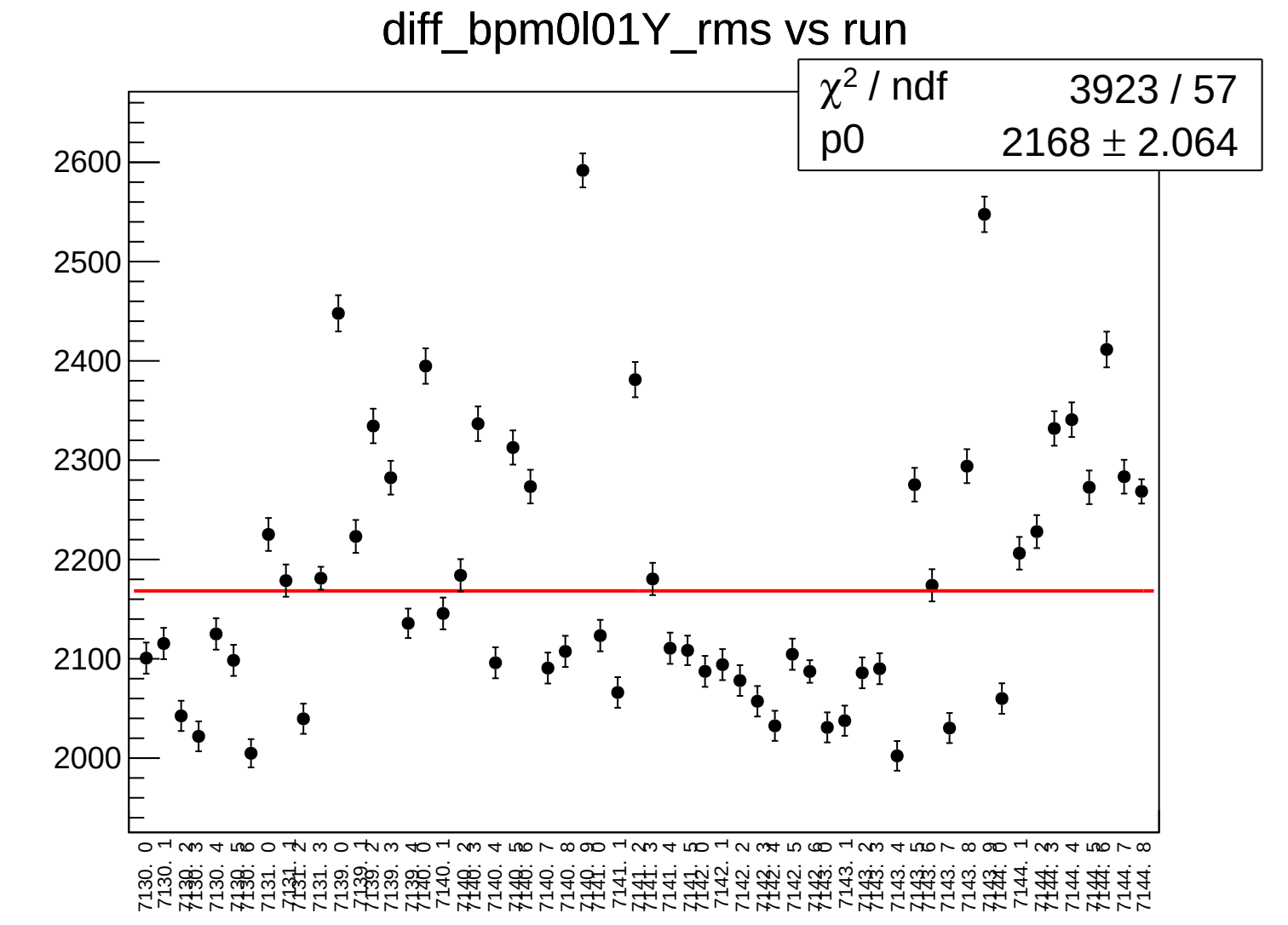

diff_bpm0l01X_mean vs run
χ² / ndf 62.36 / 57
p0 −1.749 ± 4.792
pull
Entries 58
Mean 683.1
Std Dev 660.5

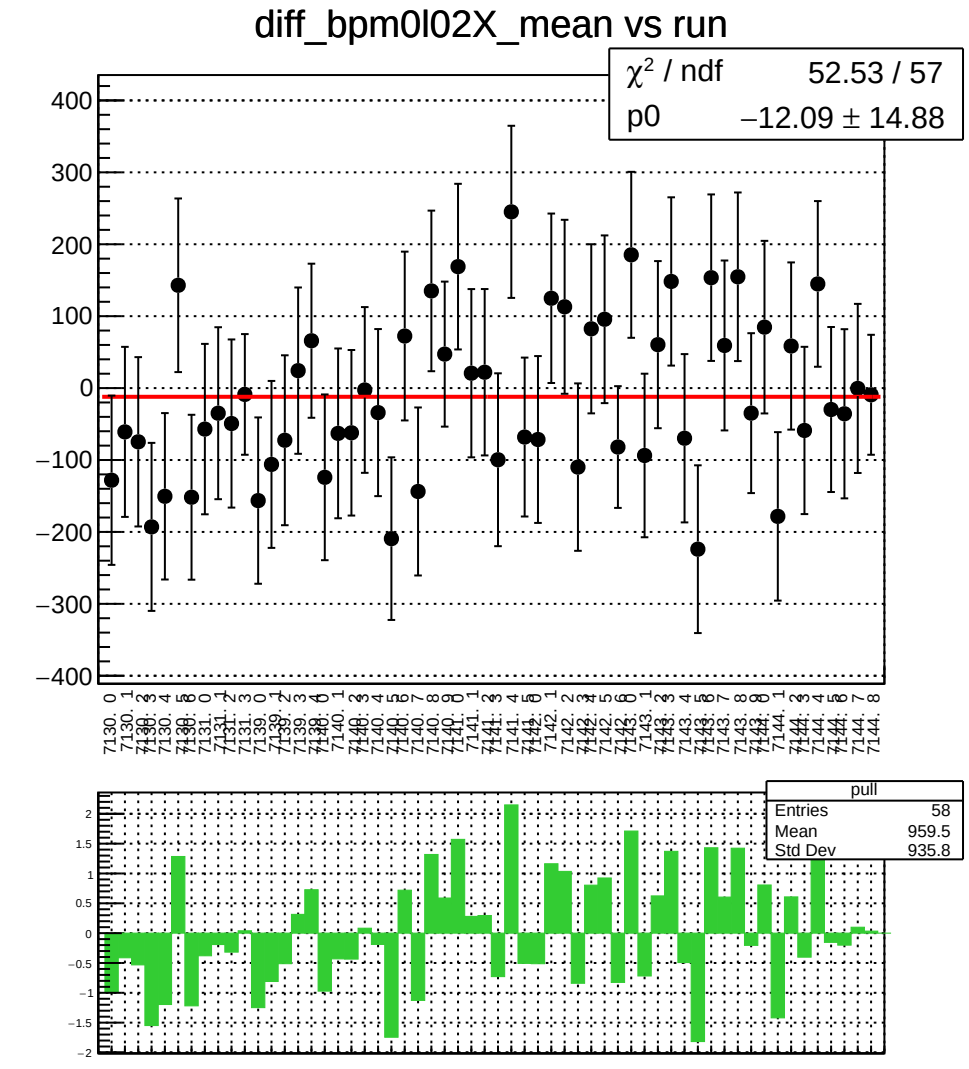

pull1D
Entries 58
Mean 0.008305
Std Dev 1.037

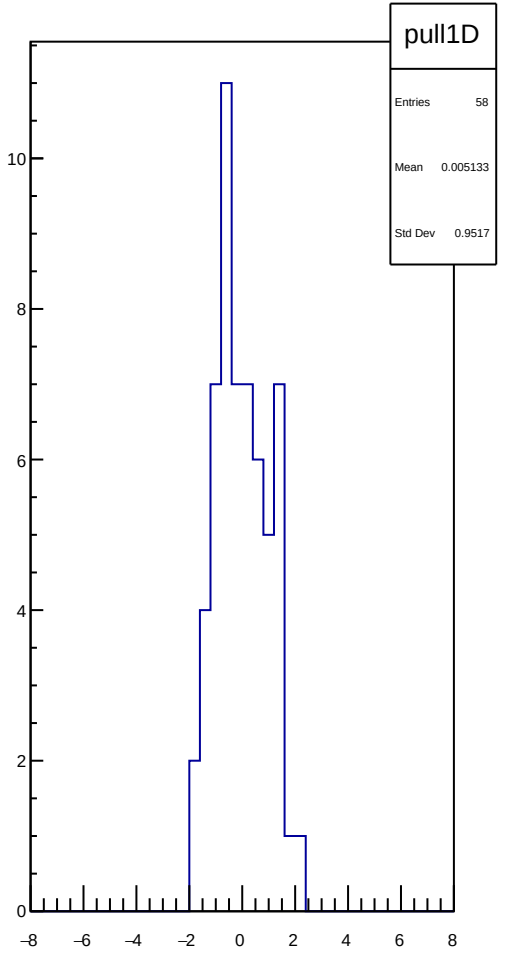

diff_bpm0l01X_rms vs run
χ² / ndf 224.3 / 57
p0 3566 ± 3.389
3700
3650
3600
3550
3500
3450

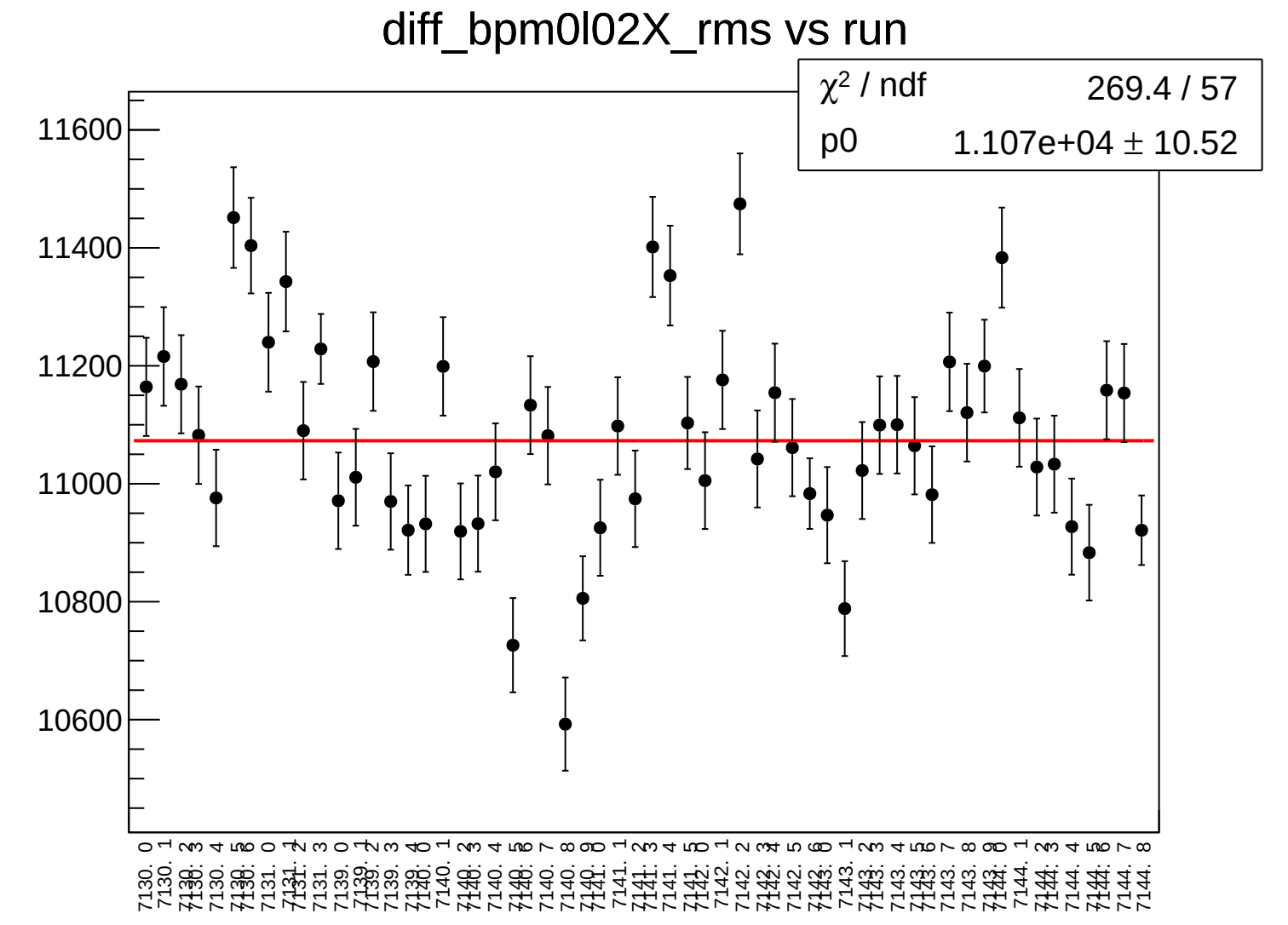

diff_bpm0l01Y_mean vs run
χ^2 / ndf 64.38 / 57
p0 −4.208 ± 2.919
pull
Entries 58
Mean −491.8
Std Dev 519.8

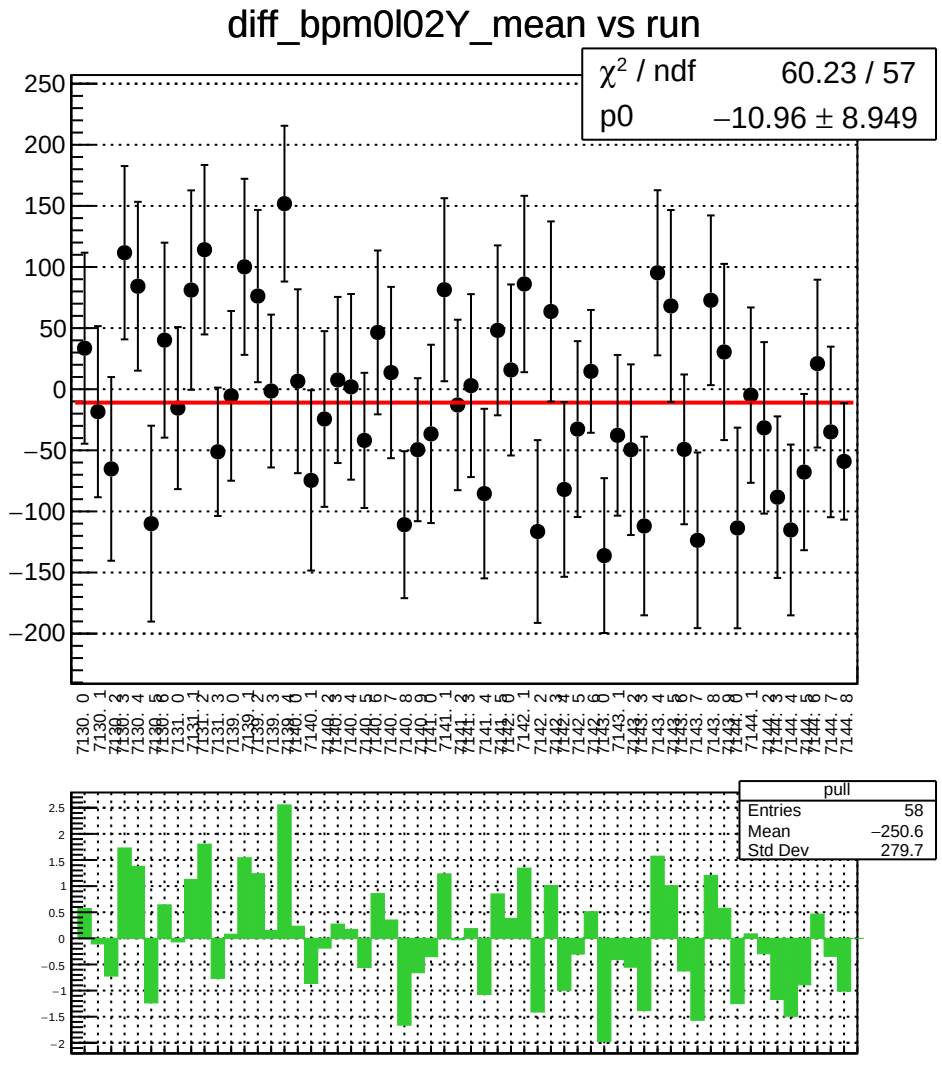

pull1D
Entries 58
Mean 0.01545
Std Dev 1.053

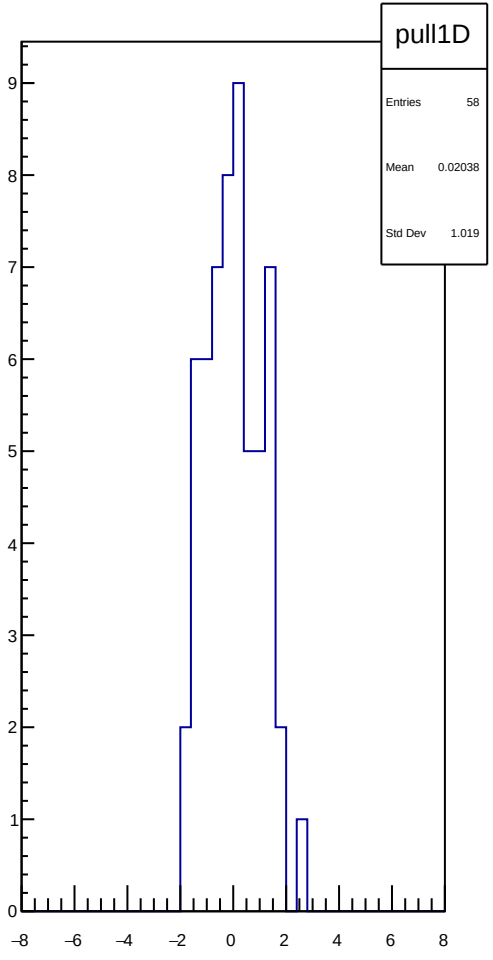

diff_bpm0l01Y_rms vs run
χ² / ndf 3923 / 57
p0 2168 ± 2.064
2600
2500
2400
2300
2200
2100
2000

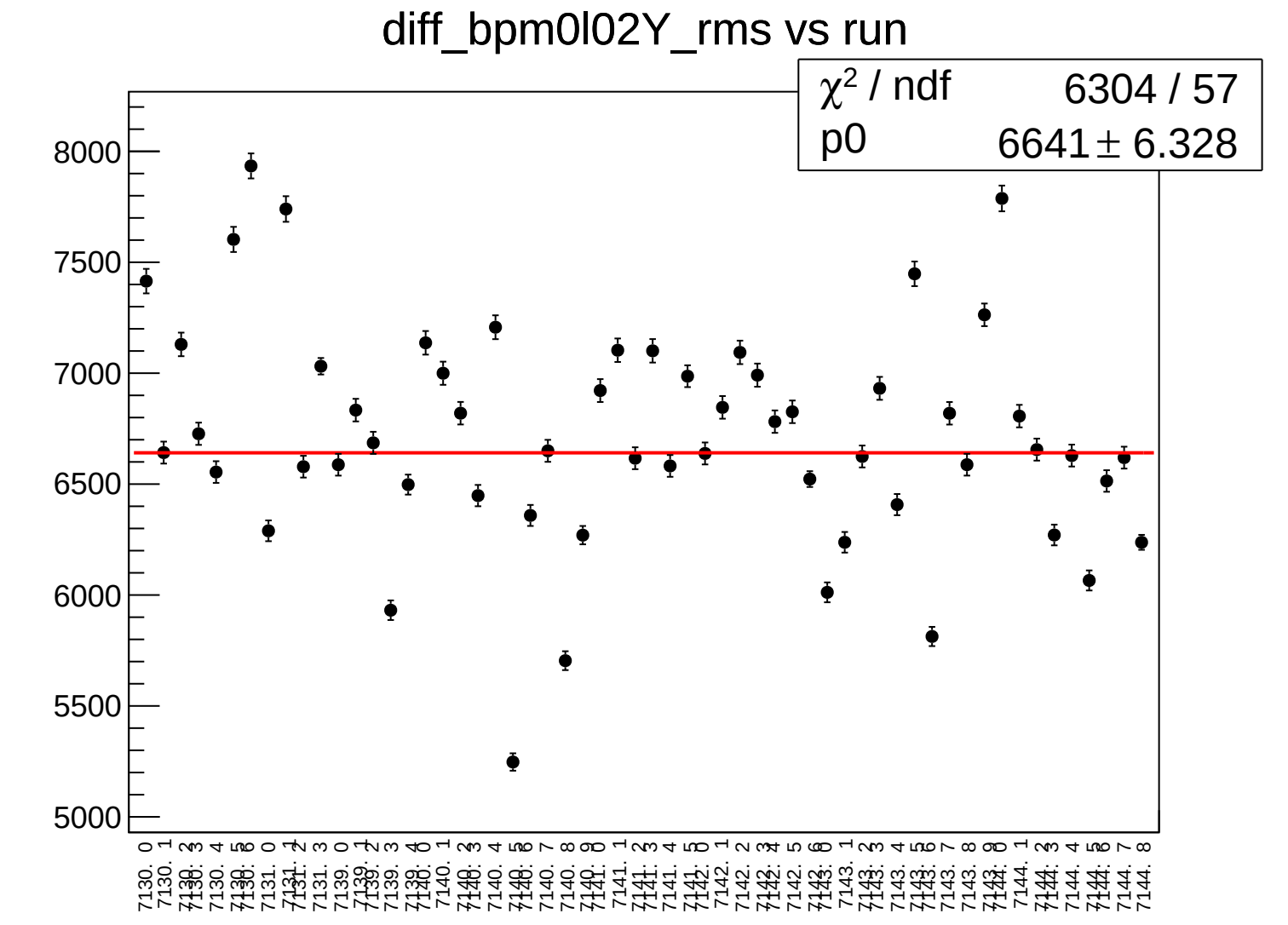

diff_bpm0l02X_mean vs run
χ² / ndf 52.53 / 57
p0 −12.09 ± 14.88
pull
Entries 58
Mean 959.5
Std Dev 935.8

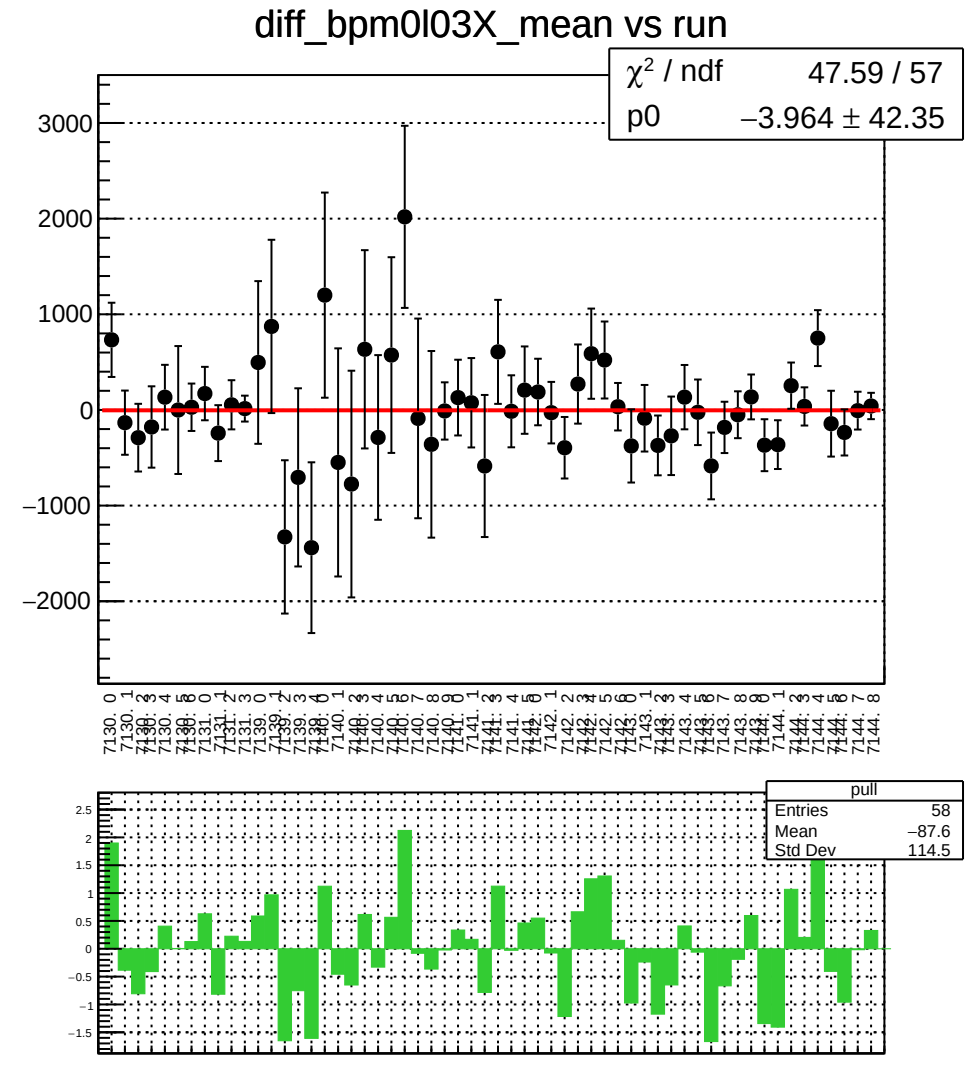

pull1D
Entries 58
Mean 0.005133
Std Dev 0.9517

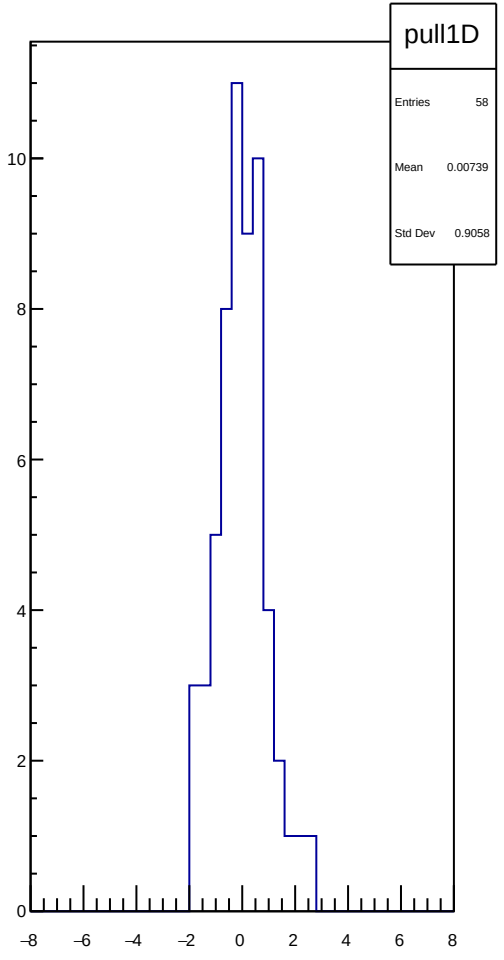

diff_bpm0l02X_rms vs run
χ² / ndf 269.4 / 57
p0 1.107e+04 ± 10.52
11600
11400
11200
11000
10800
10600

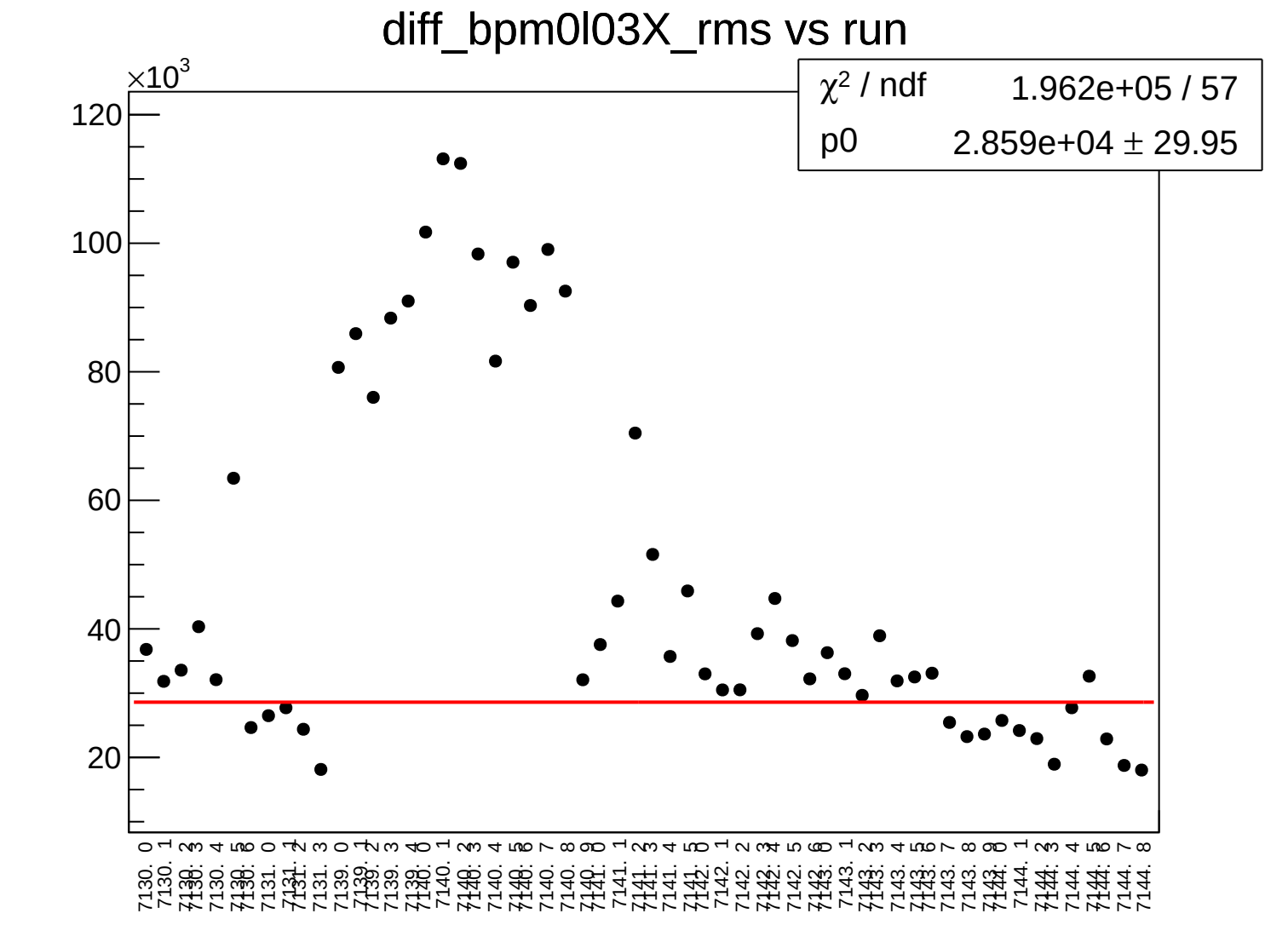

diff_bpm0l02Y_mean vs run
χ^2 / ndf 60.23 / 57
p0 −10.96 ± 8.949
pull
Entries 58
Mean −250.6
Std Dev 279.7

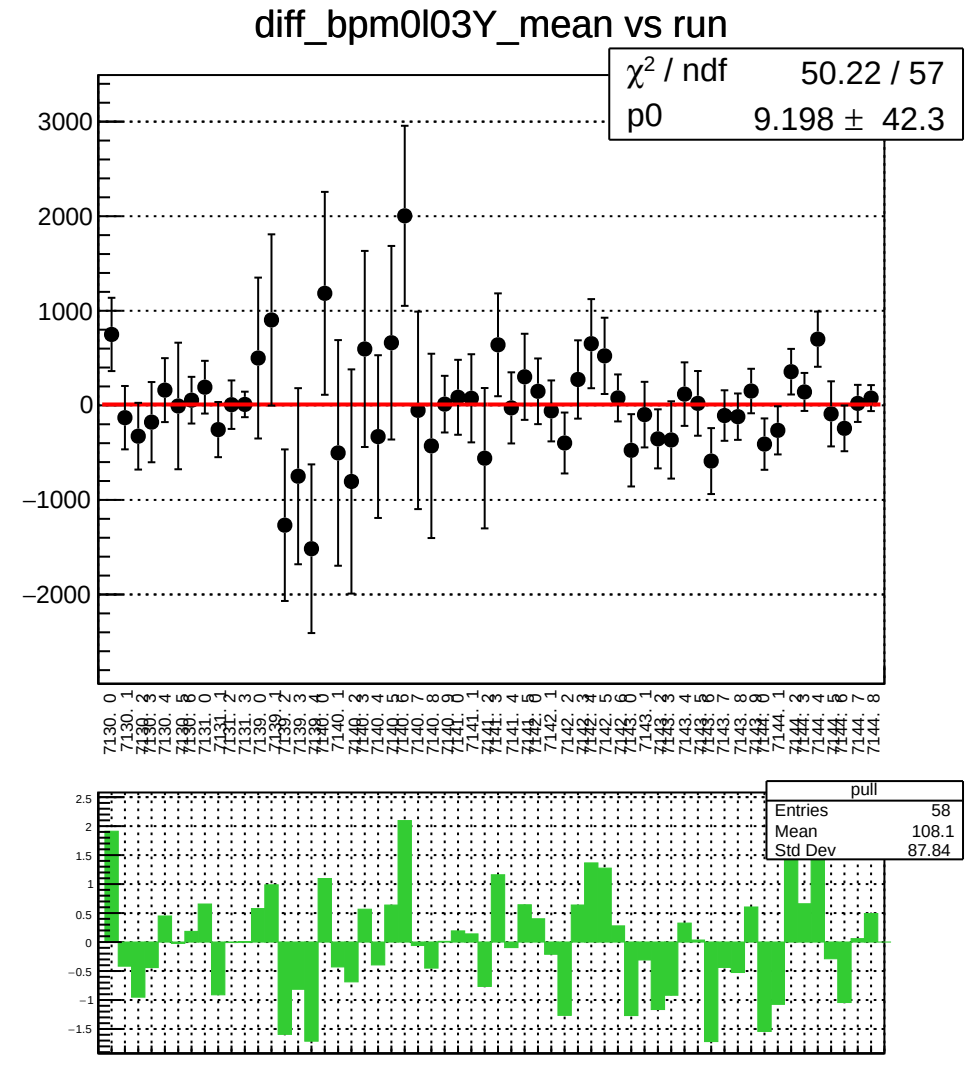

pull1D
Entries 58
Mean 0.02038
Std Dev 1.019

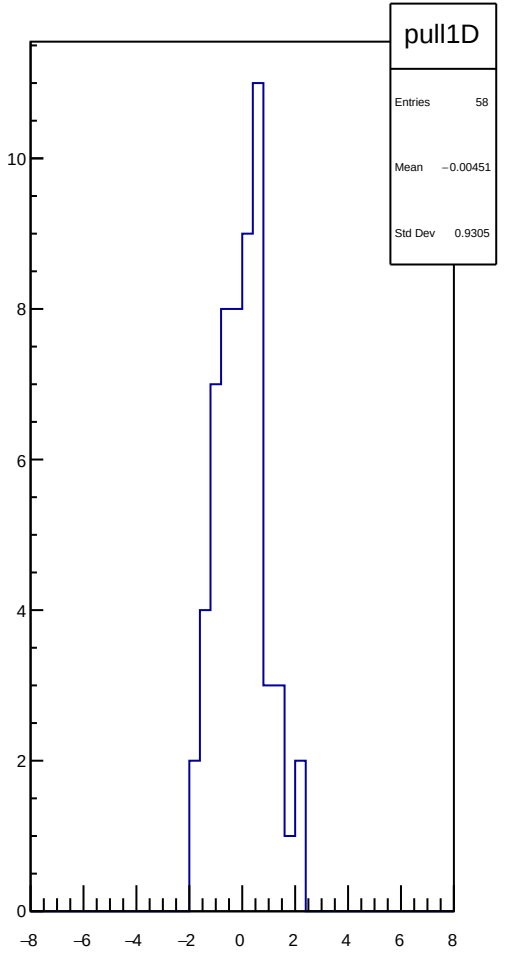

diff_bpm0l02Y_rms vs run
χ² / ndf 6304 / 57
p0 6641 ± 6.328
8000
7500
7000
6500
6000
5500
5000

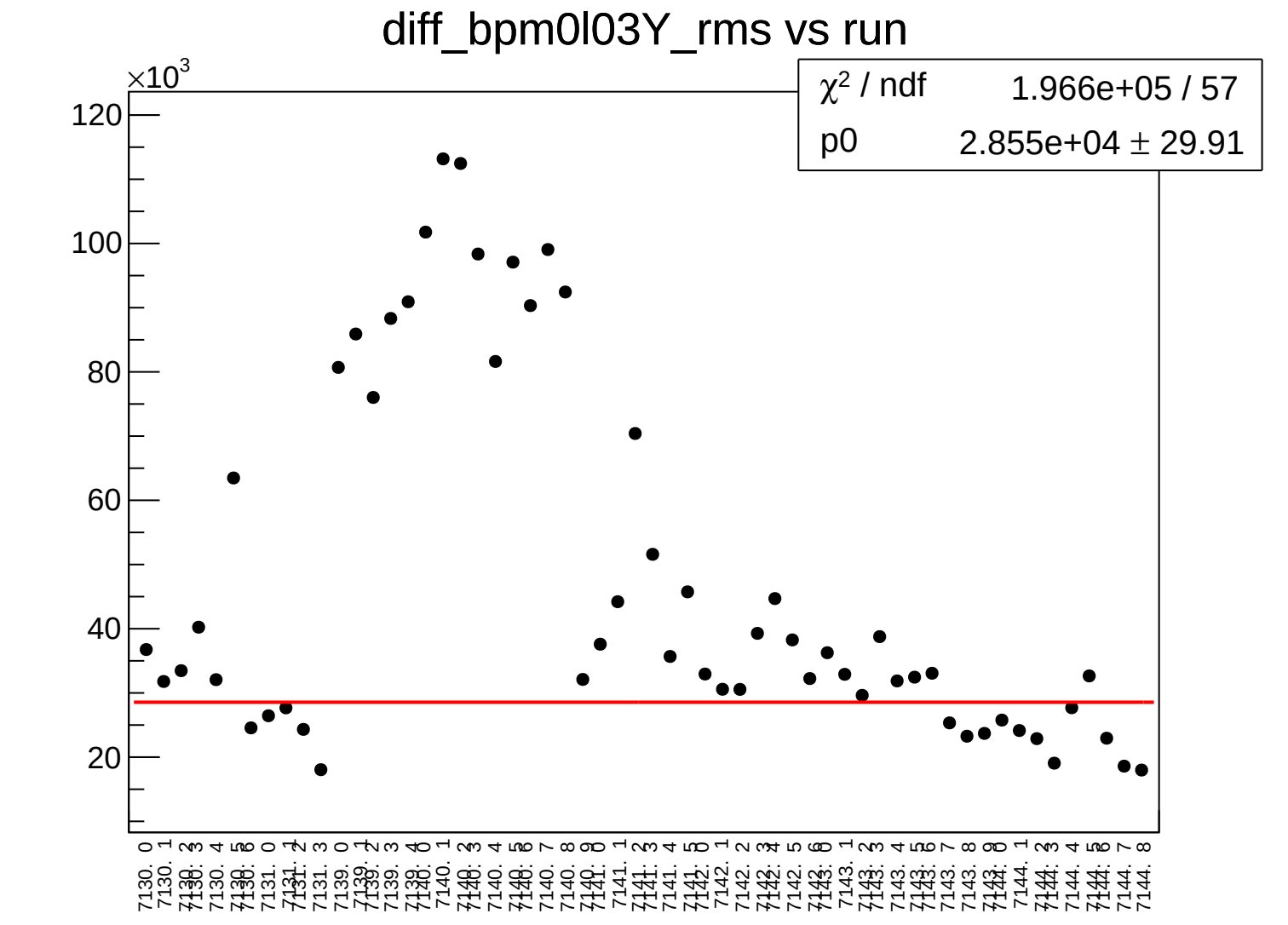

diff_bpm0l03X_mean vs run
χ² / ndf 47.59 / 57
p0 −3.964 ± 42.35
pull
Entries 58
Mean −87.6
Std Dev 114.5

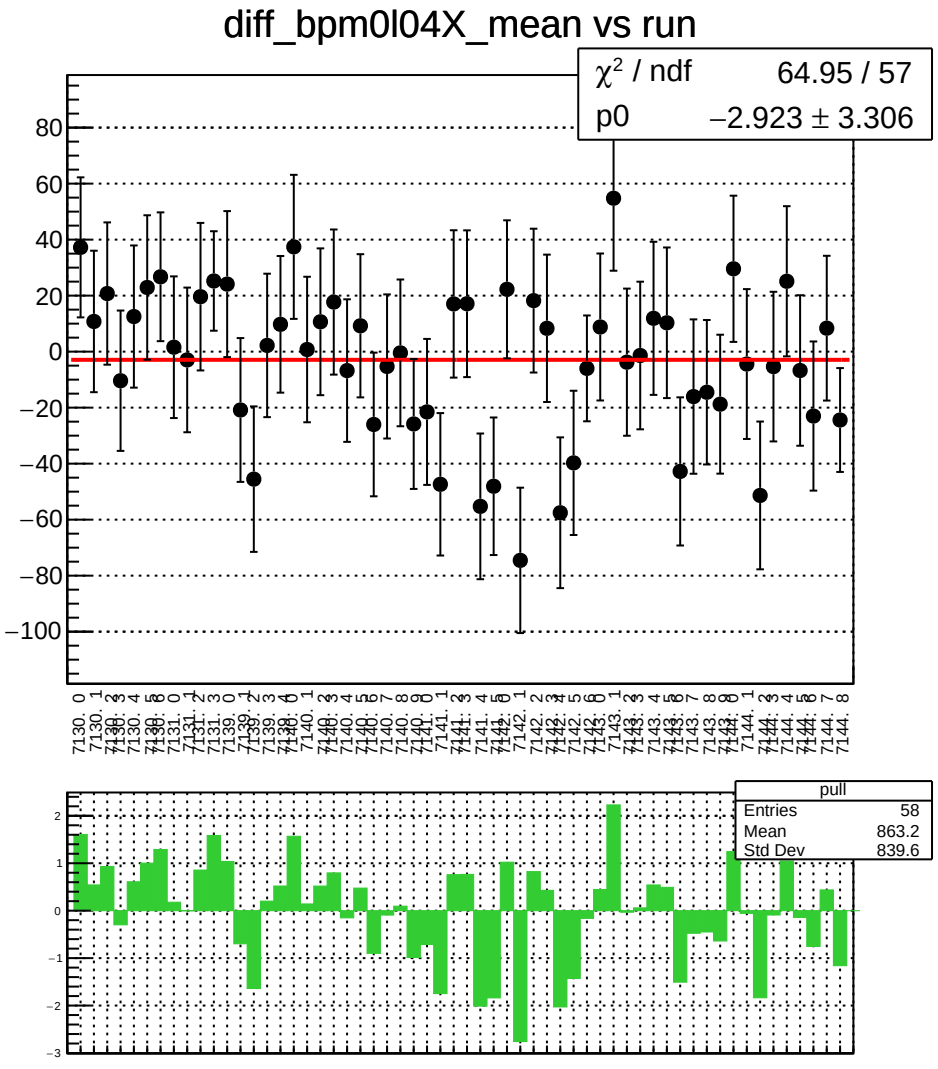

pull1D
Entries 58
Mean 0.00739
Std Dev 0.9058

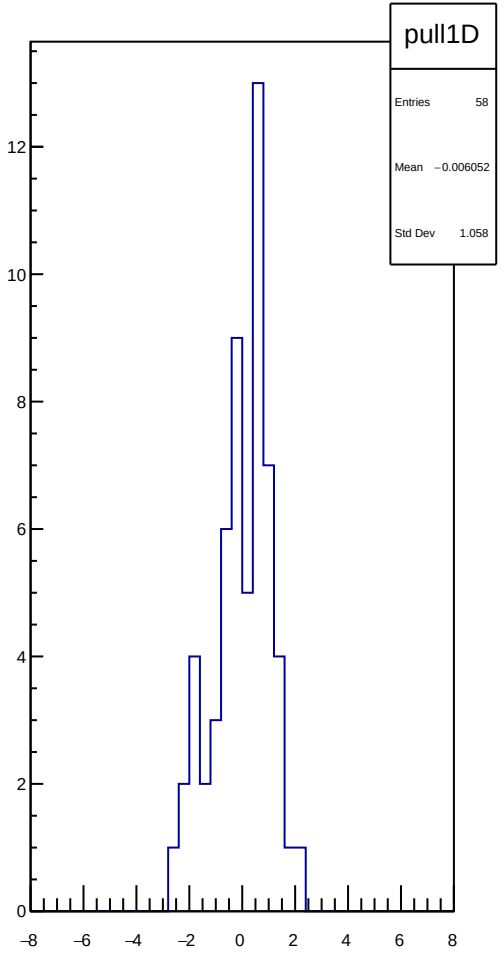

diff_bpm0l03X_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.962e+05 / 57
p0 2.859e+04 ± 29.95

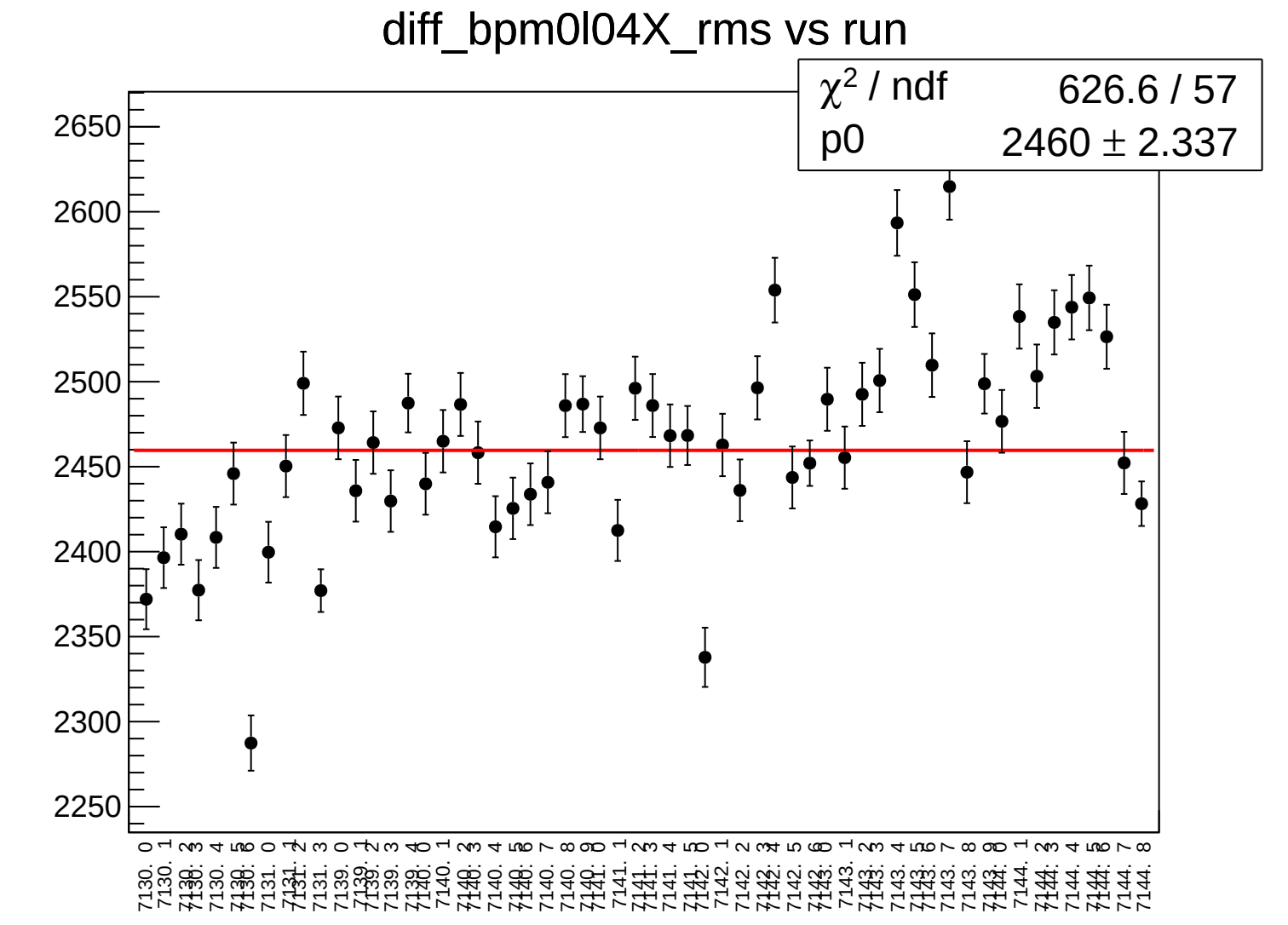

diff_bpm0l03Y_mean vs run
χ² / ndf 50.22 / 57
p0 9.198 ± 42.3
3000
2000
1000
0
−1000
−2000
pull
Entries 58
Mean 108.1
Std Dev 87.84
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

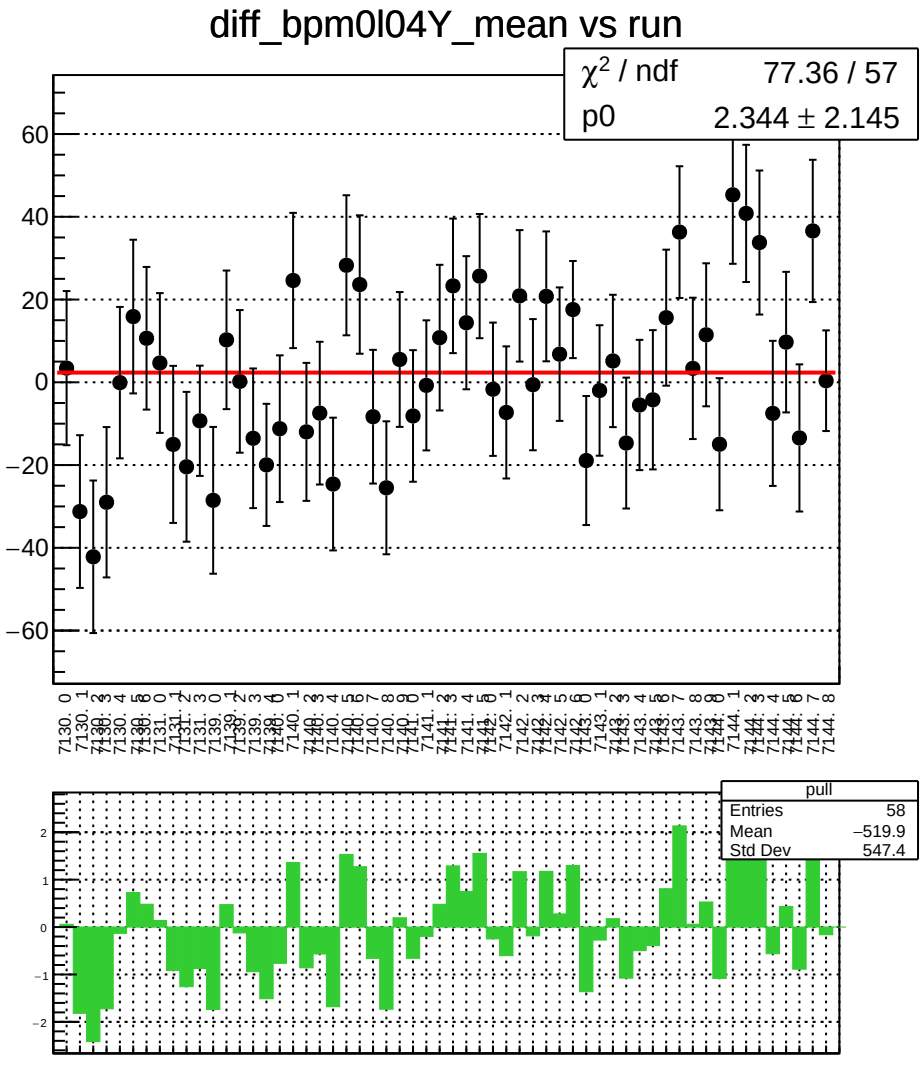

pull1D
Entries 58
Mean −0.00451
Std Dev 0.9305
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

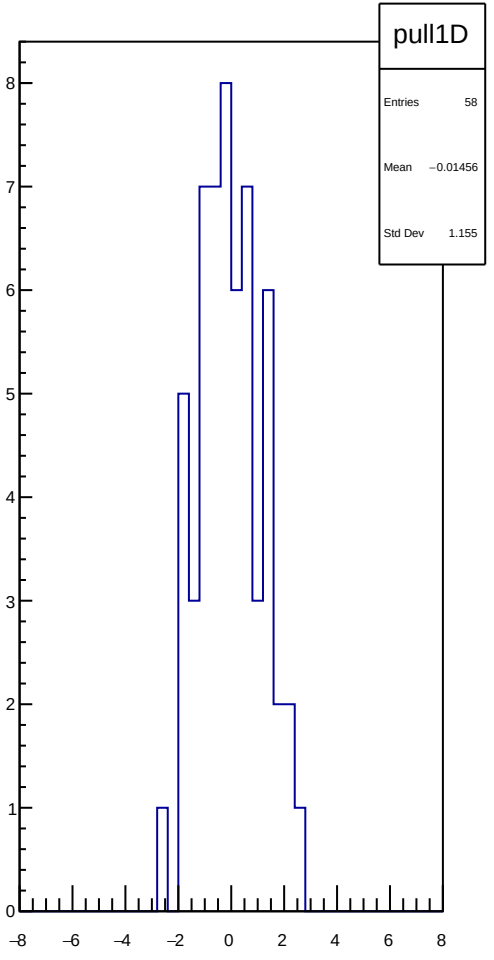

diff_bpm0l03Y_rms vs run
×10^3
120
100
80
60
40
20
χ² / ndf 1.966e+05 / 57
p0 2.855e+04 ± 29.91

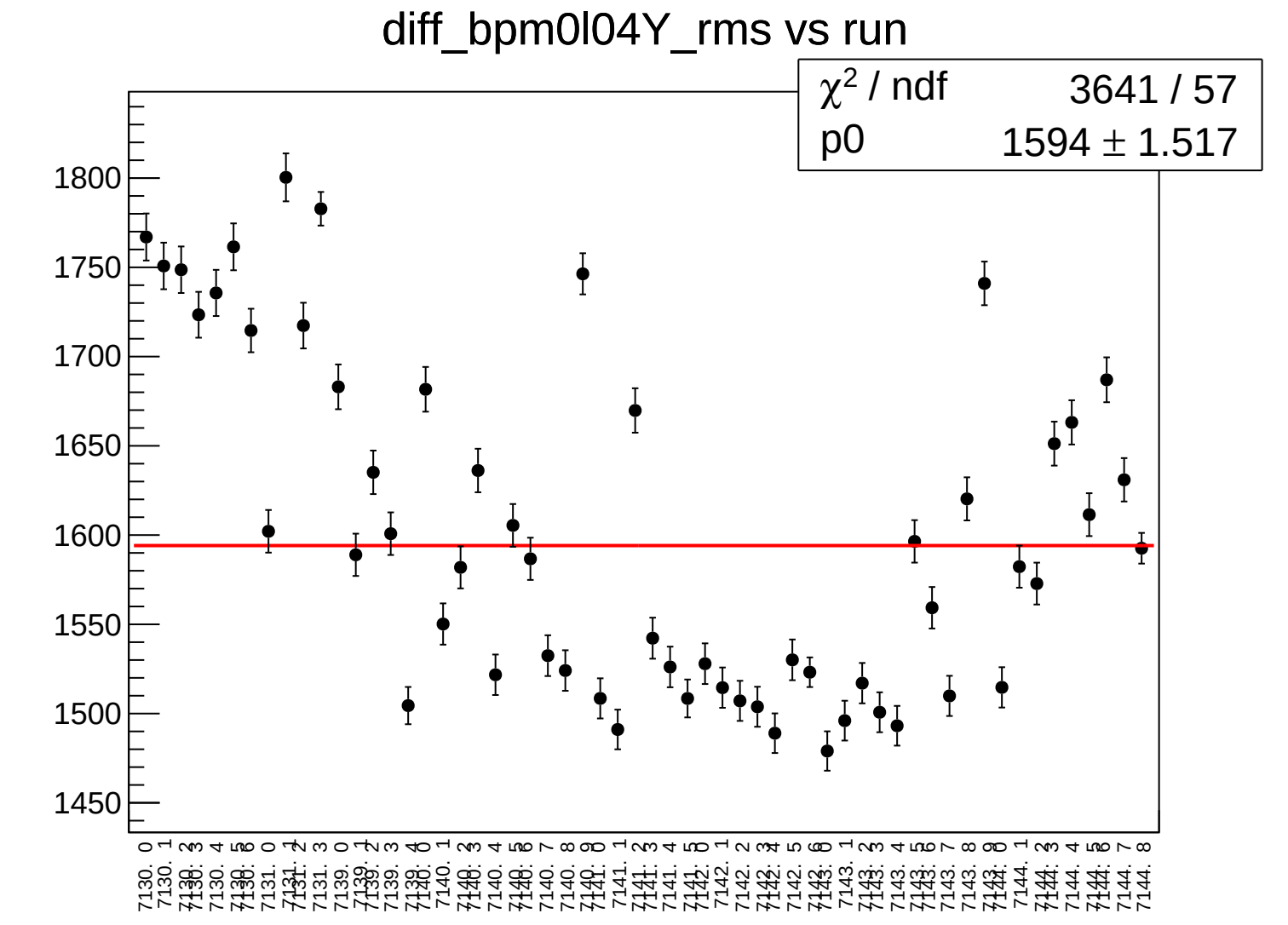

diff_bpm0l04X_mean vs run
χ² / ndf 64.95 / 57
p0 −2.923 ± 3.306
pull
Entries 58
Mean 863.2
Std Dev 839.6

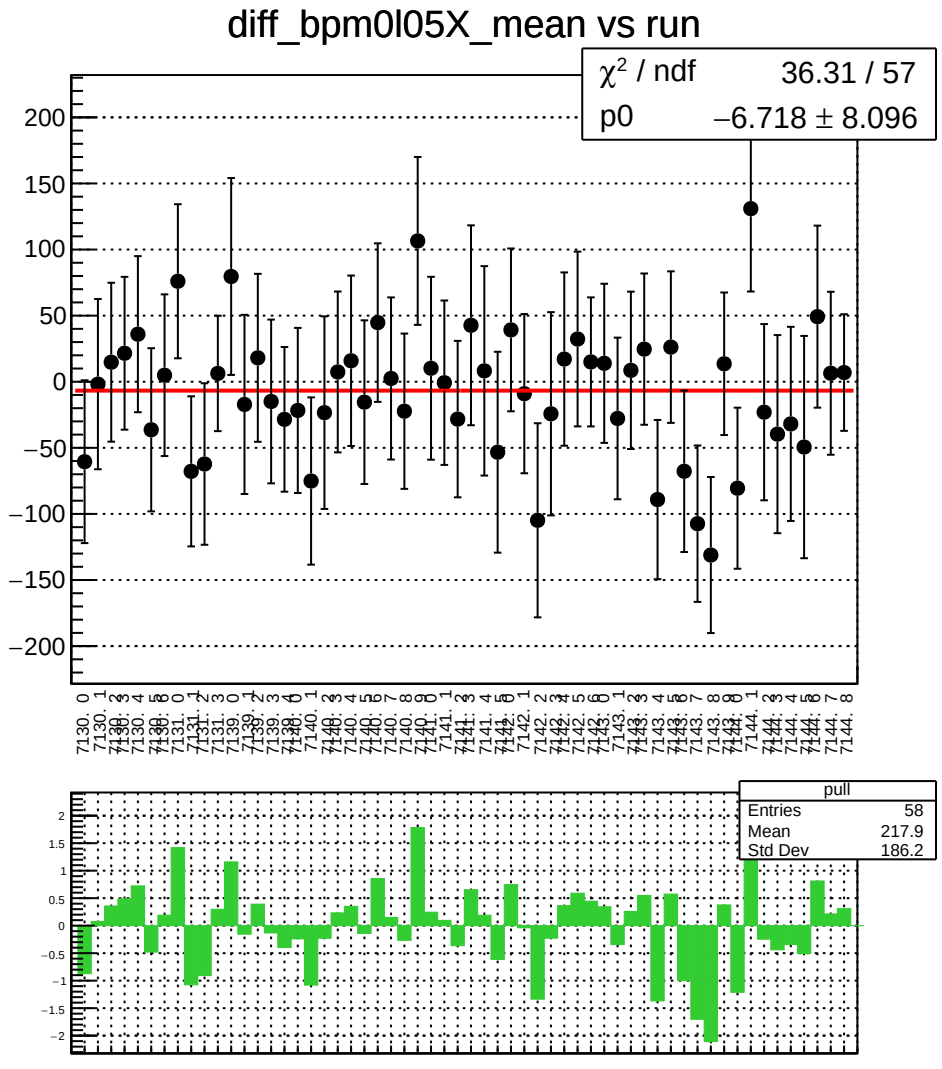

pull1D
Entries 58
Mean −0.006052
Std Dev 1.058

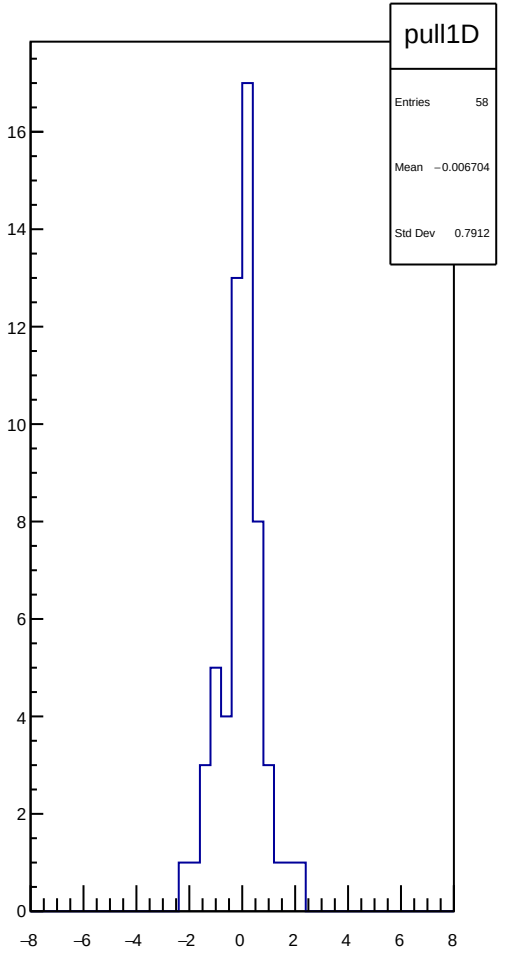

diff_bpm0l04X_rms vs run
χ² / ndf 626.6 / 57
p0 2460 ± 2.337
2650
2600
2550
2500
2450
2400
2350
2300
2250

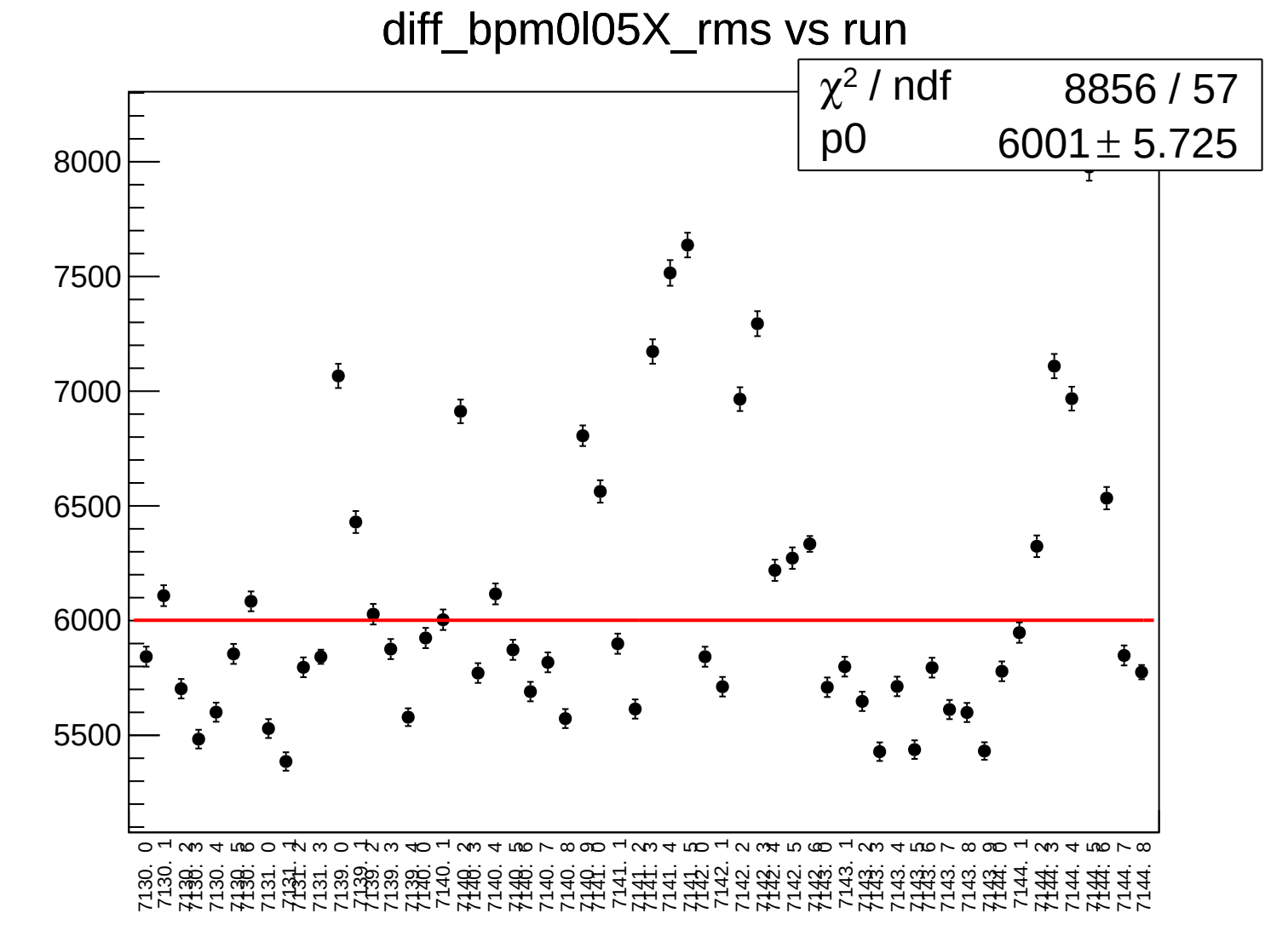

diff_bpm0l04Y_mean vs run
χ^2 / ndf 77.36 / 57
p0 2.344 ± 2.145
pull
Entries 58
Mean −519.9
Std Dev 547.4

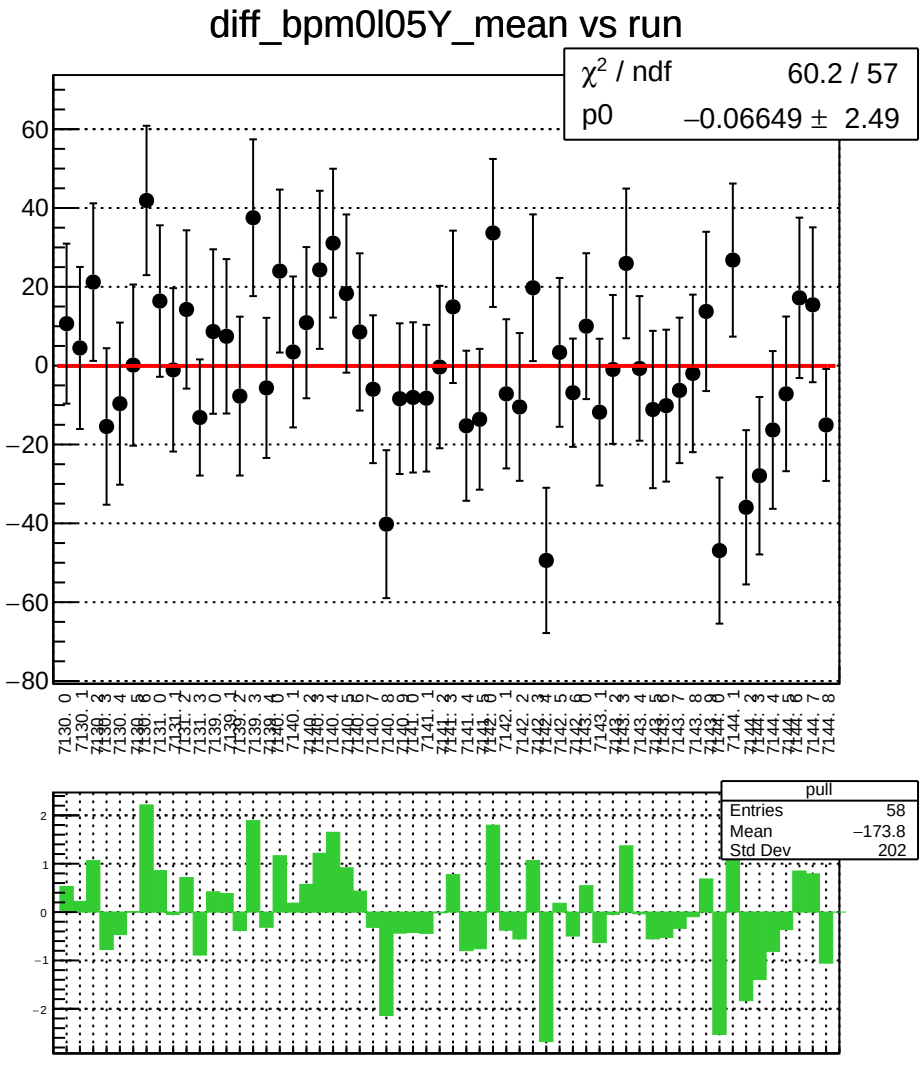

pull1D
Entries 58
Mean −0.01456
Std Dev 1.155

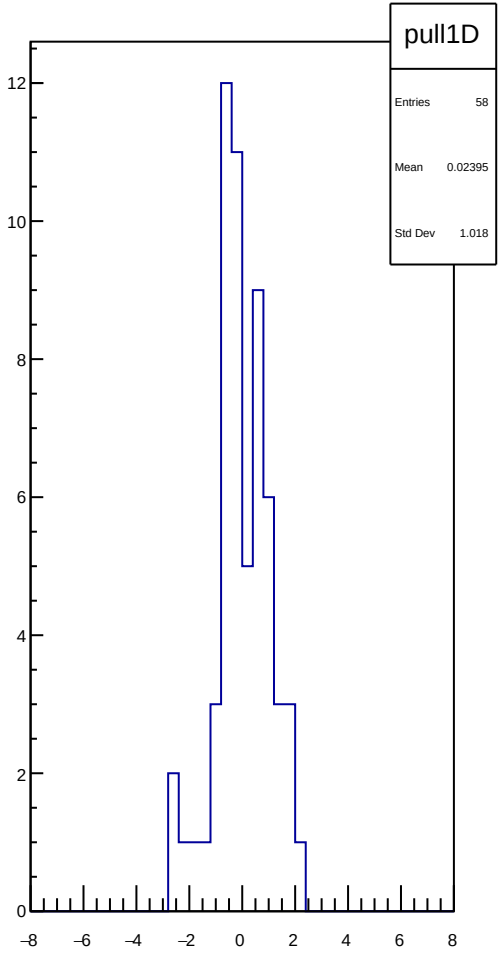

diff_bpm0l04Y_rms vs run
χ² / ndf 3641 / 57
p0 1594 ± 1.517
1800
1750
1700
1650
1600
1550
1500
1450

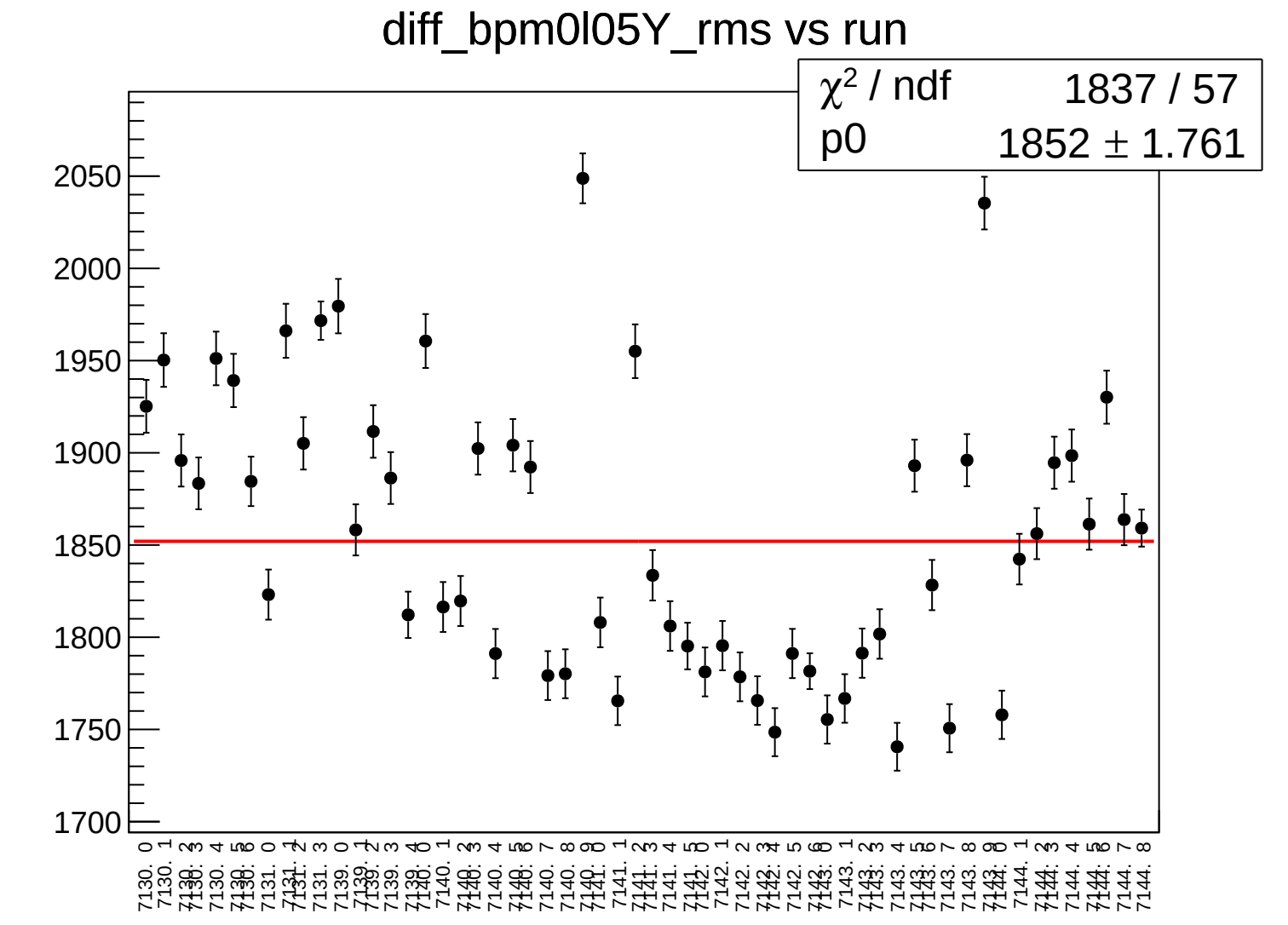

diff_bpm0l05X_mean vs run
χ² / ndf 36.31 / 57
p0 −6.718 ± 8.096
pull
Entries 58
Mean 217.9
Std Dev 186.2

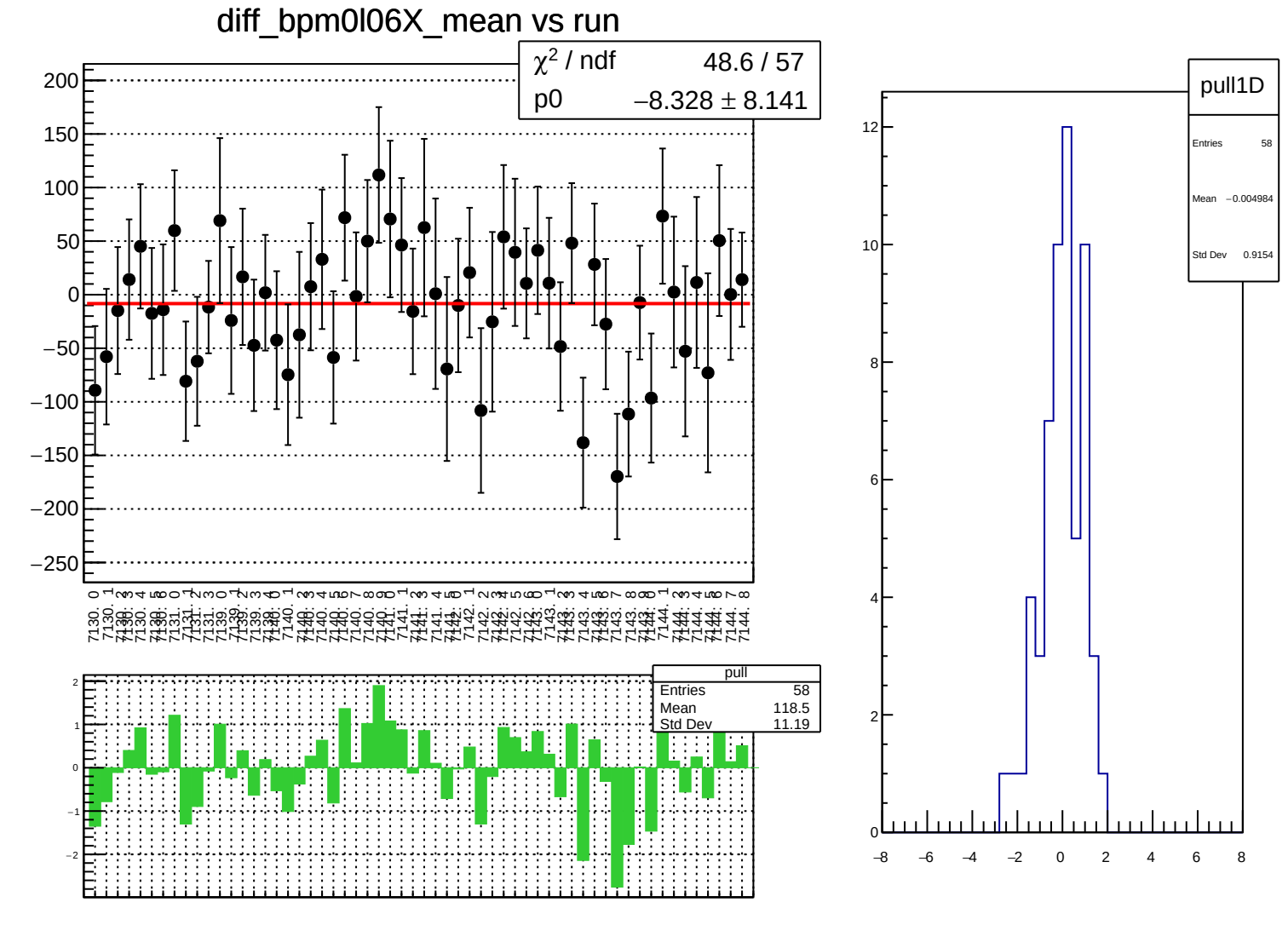

pull1D
Entries 58
Mean −0.006704
Std Dev 0.7912

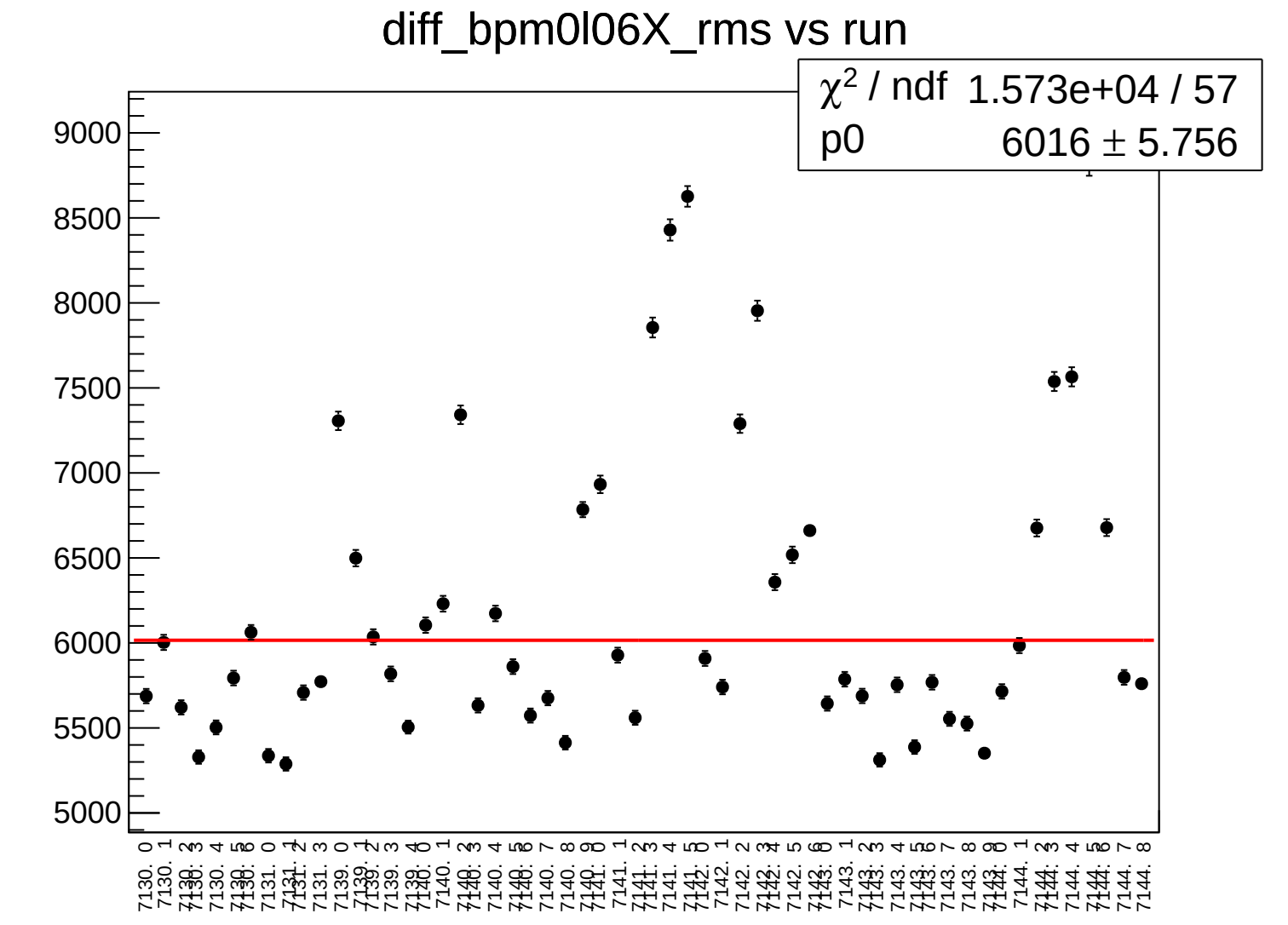

diff_bpm0l05X_rms vs run
χ² / ndf 8856 / 57
p0 6001 ± 5.725
8000
7500
7000
6500
6000
5500

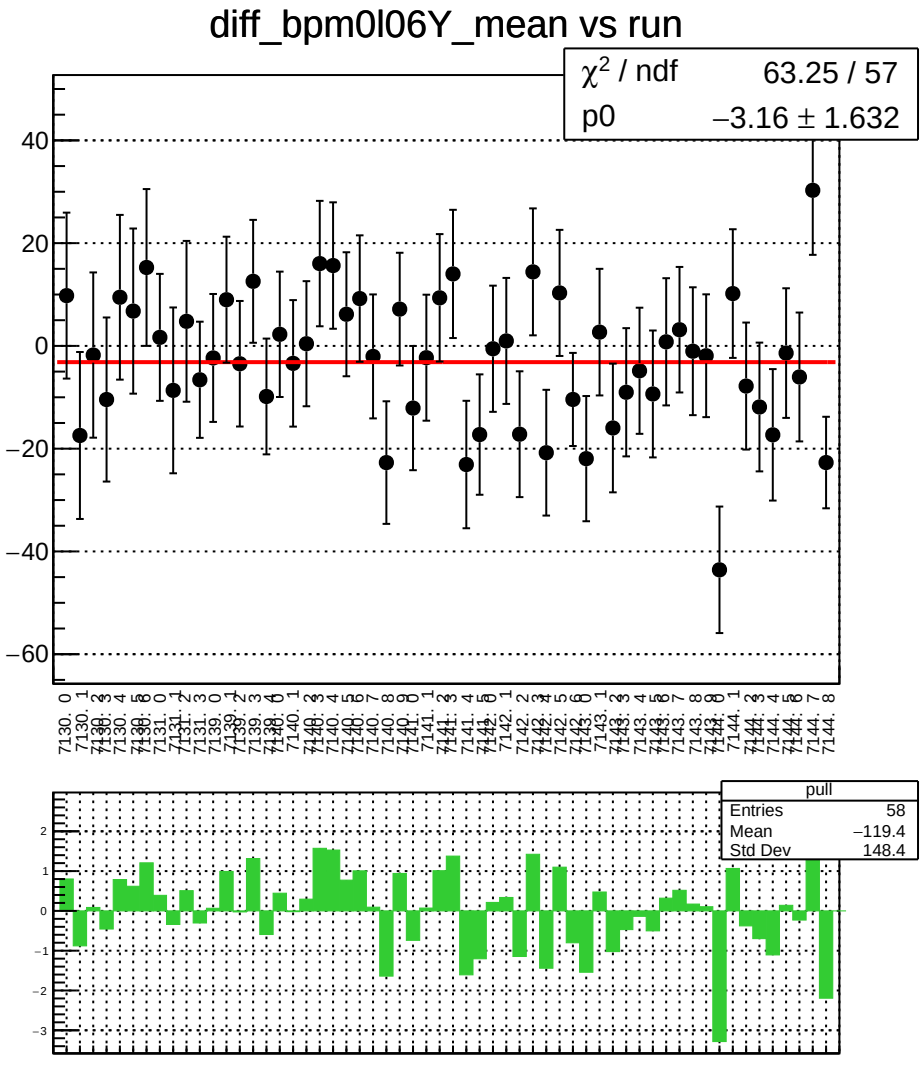

diff_bpm0l05Y_mean vs run
χ² / ndf 60.2 / 57
p0 −0.06649 ± 2.49
pull
Entries 58
Mean −173.8
Std Dev 202

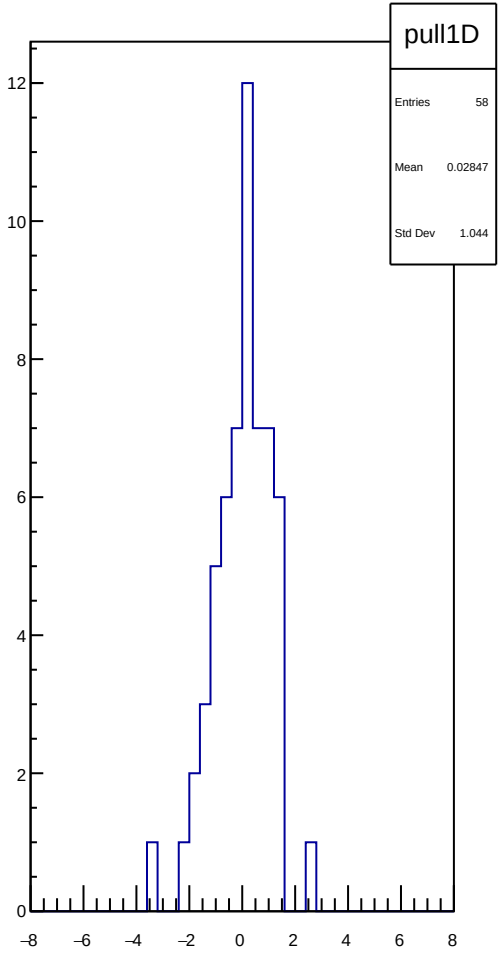

pull1D
Entries 58
Mean 0.02395
Std Dev 1.018

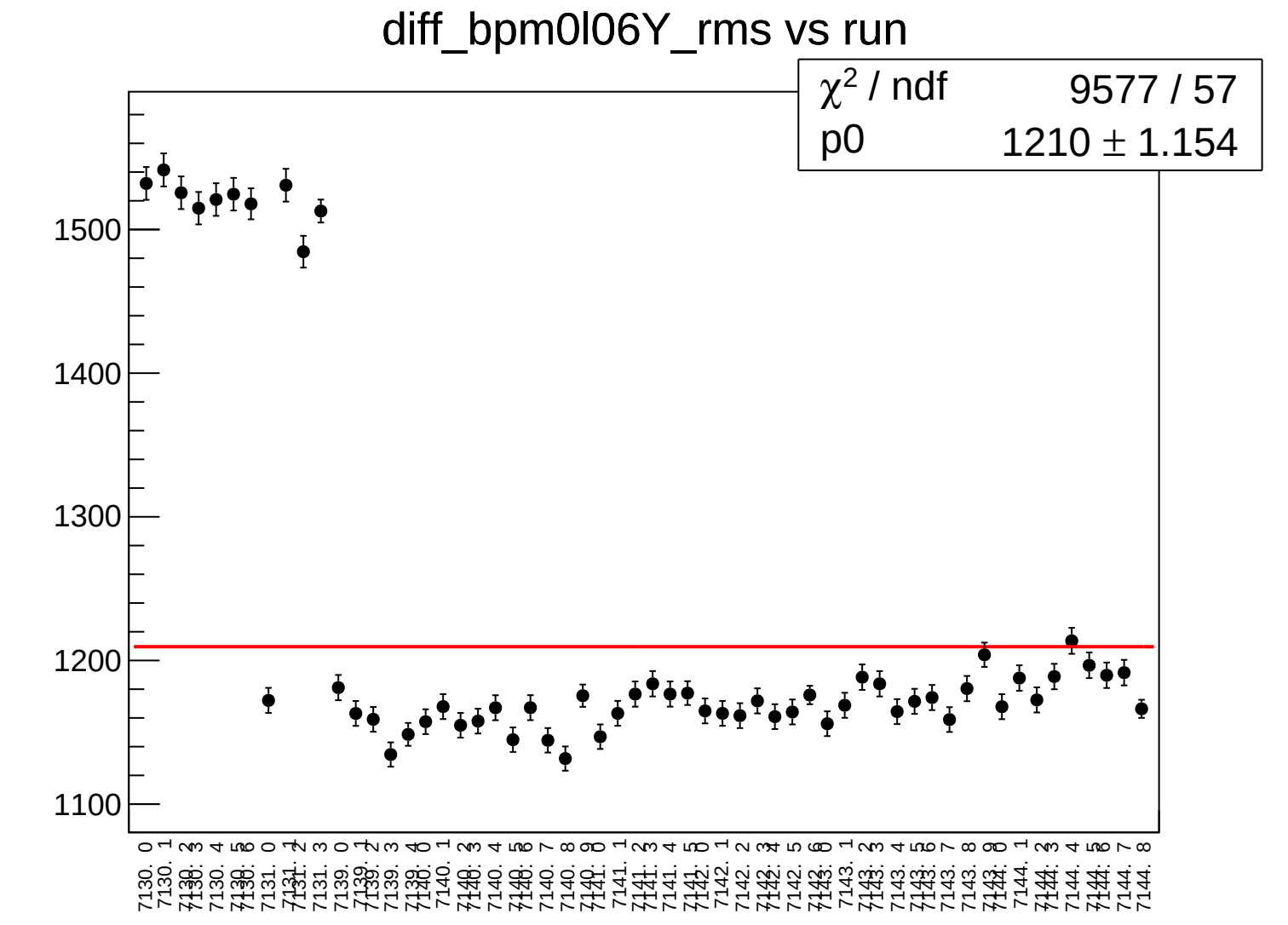

diff_bpm0l05Y_rms vs run
χ² / ndf 1837 / 57
p0 1852 ± 1.761
2050
2000
1950
1900
1850
1800
1750
1700

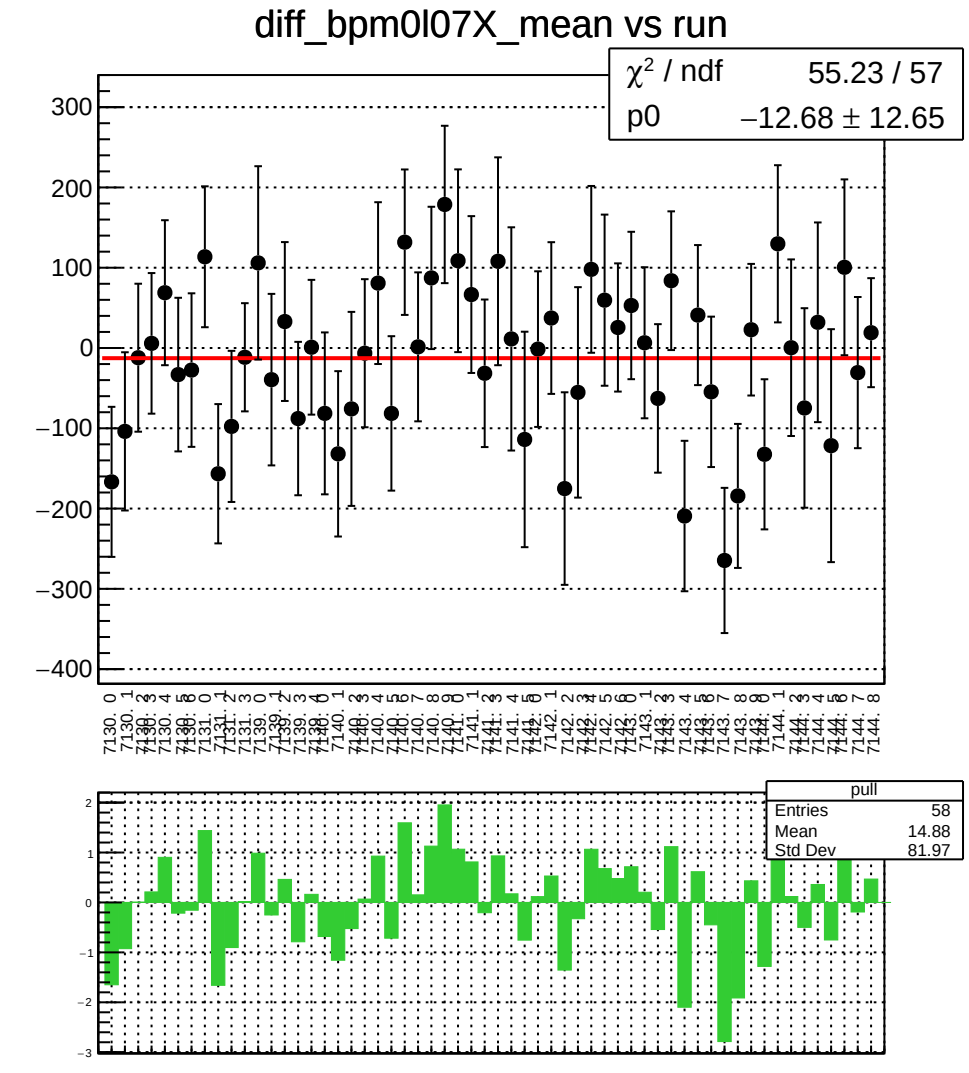

diff_bpm0l06X_mean vs run
χ² / ndf 48.6 / 57
p0 −8.328 ± 8.141
pull
Entries 58
Mean 118.5
Std Dev 11.19
pull1D
Entries 58
Mean −0.004984
Std Dev 0.9154

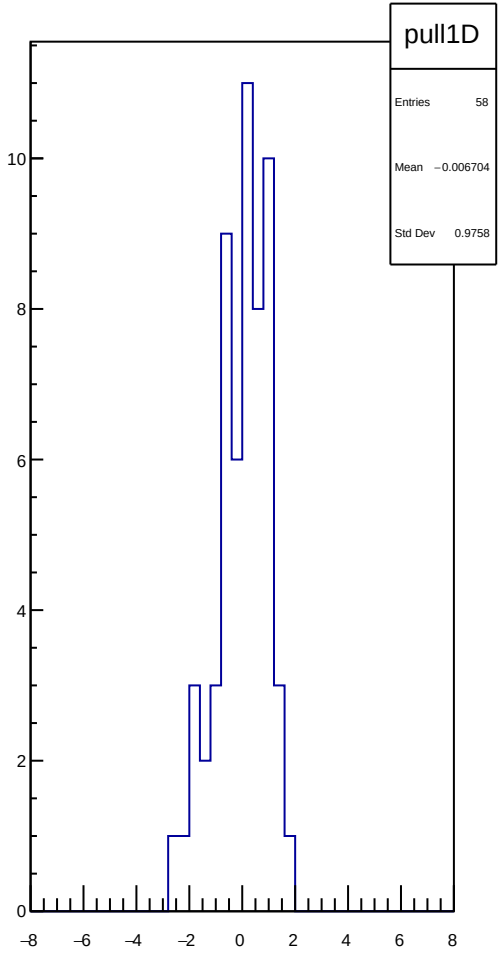

diff_bpm0l06X_rms vs run
χ^2 / ndf 1.573e+04 / 57
p0 6016 ± 5.756
9000
8500
8000
7500
7000
6500
6000
5500
5000

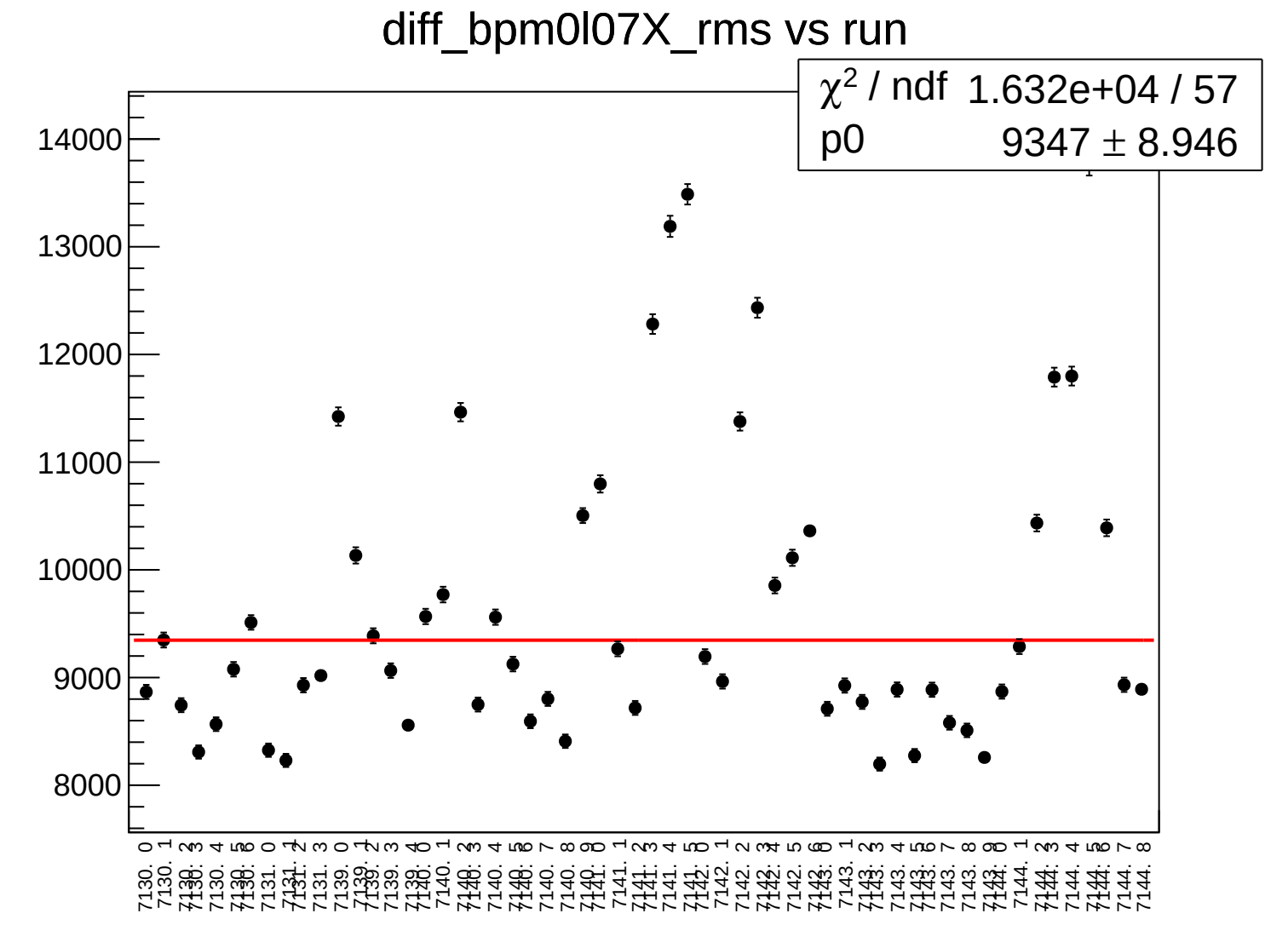

diff_bpm0l06Y_mean vs run
χ^2 / ndf 63.25 / 57
p0 −3.16 ± 1.632
pull
Entries 58
Mean −119.4
Std Dev 148.4

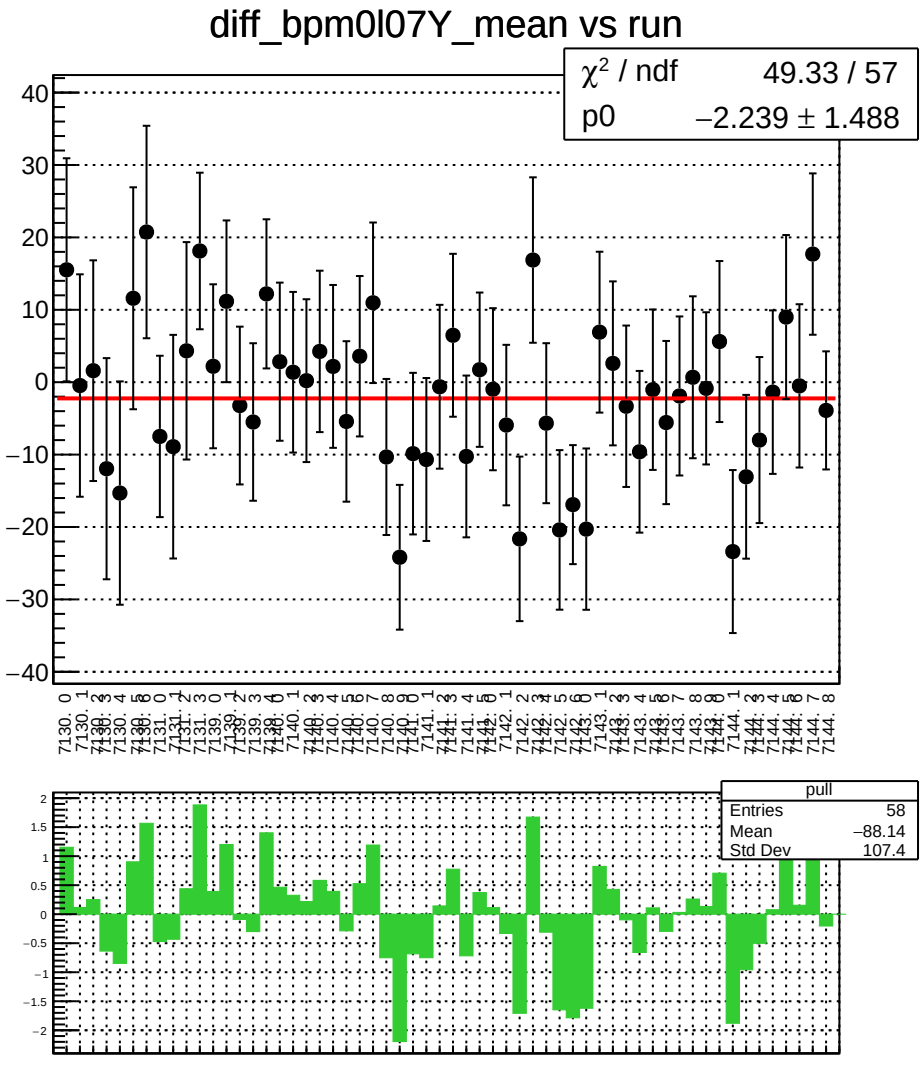

pull1D
Entries 58
Mean 0.02847
Std Dev 1.044

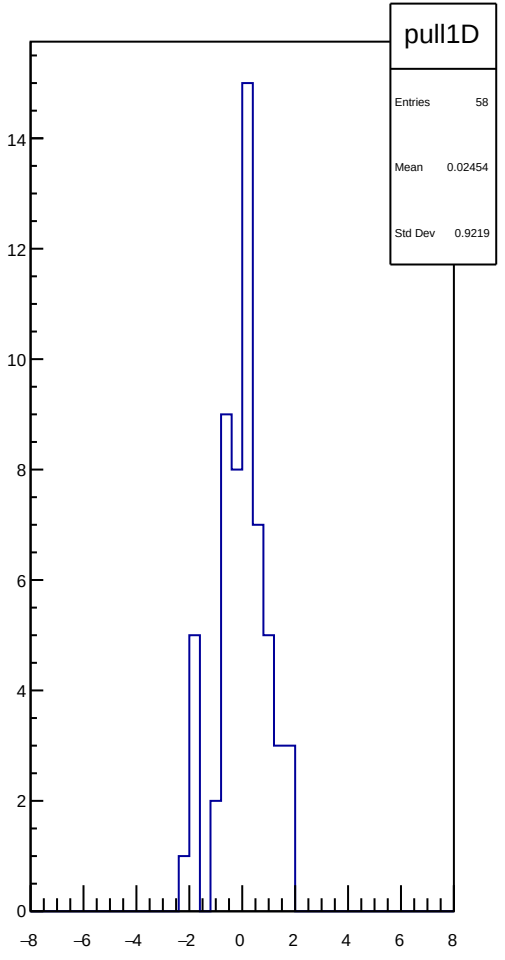

diff_bpm0l06Y_rms vs run
χ² / ndf 9577 / 57
p0 1210 ± 1.154
1500
1400
1300
1200
1100

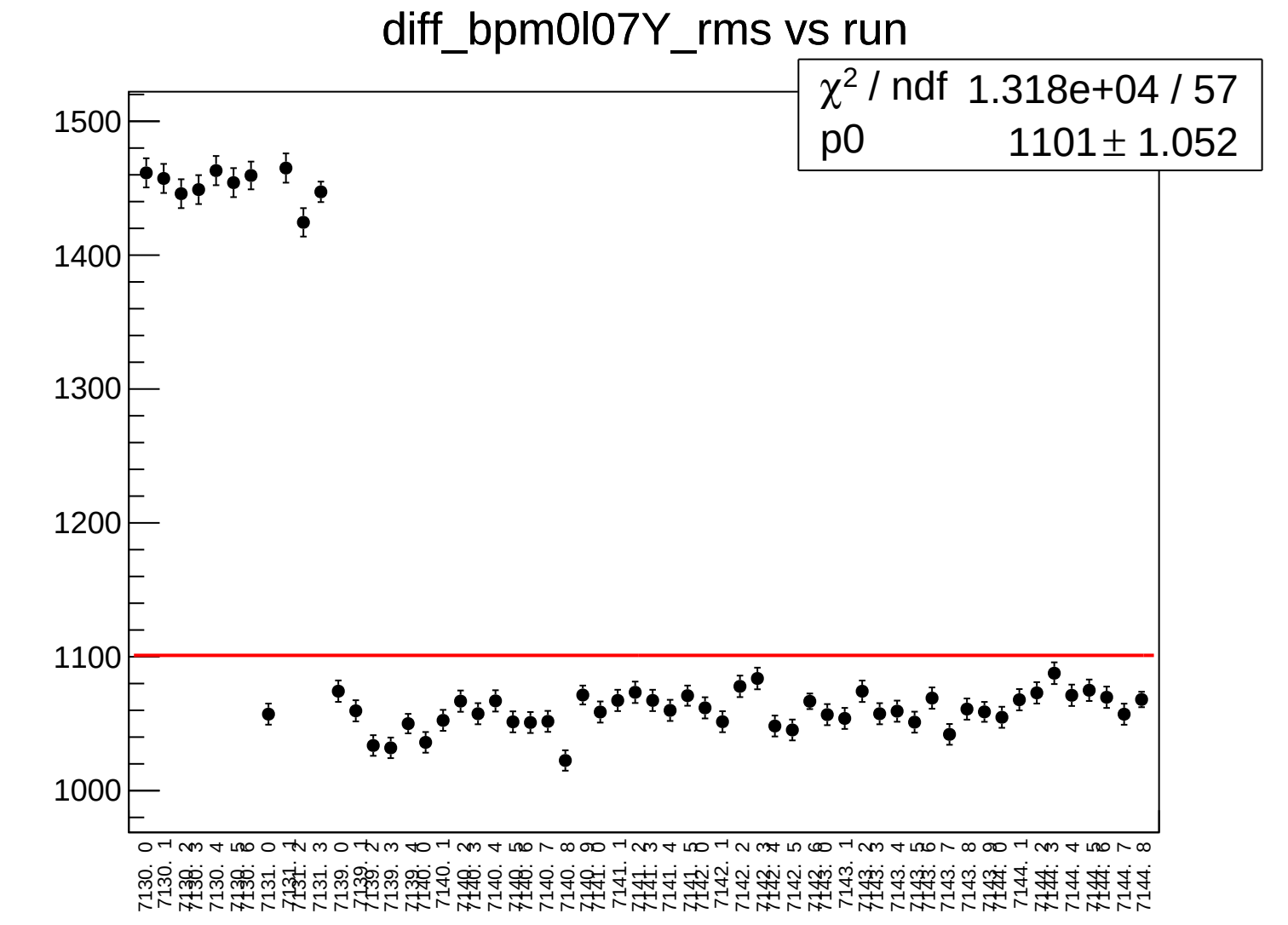

diff_bpm0l07X_mean vs run
χ² / ndf 55.23 / 57
p0 −12.68 ± 12.65
pull
Entries 58
Mean 14.88
Std Dev 81.97

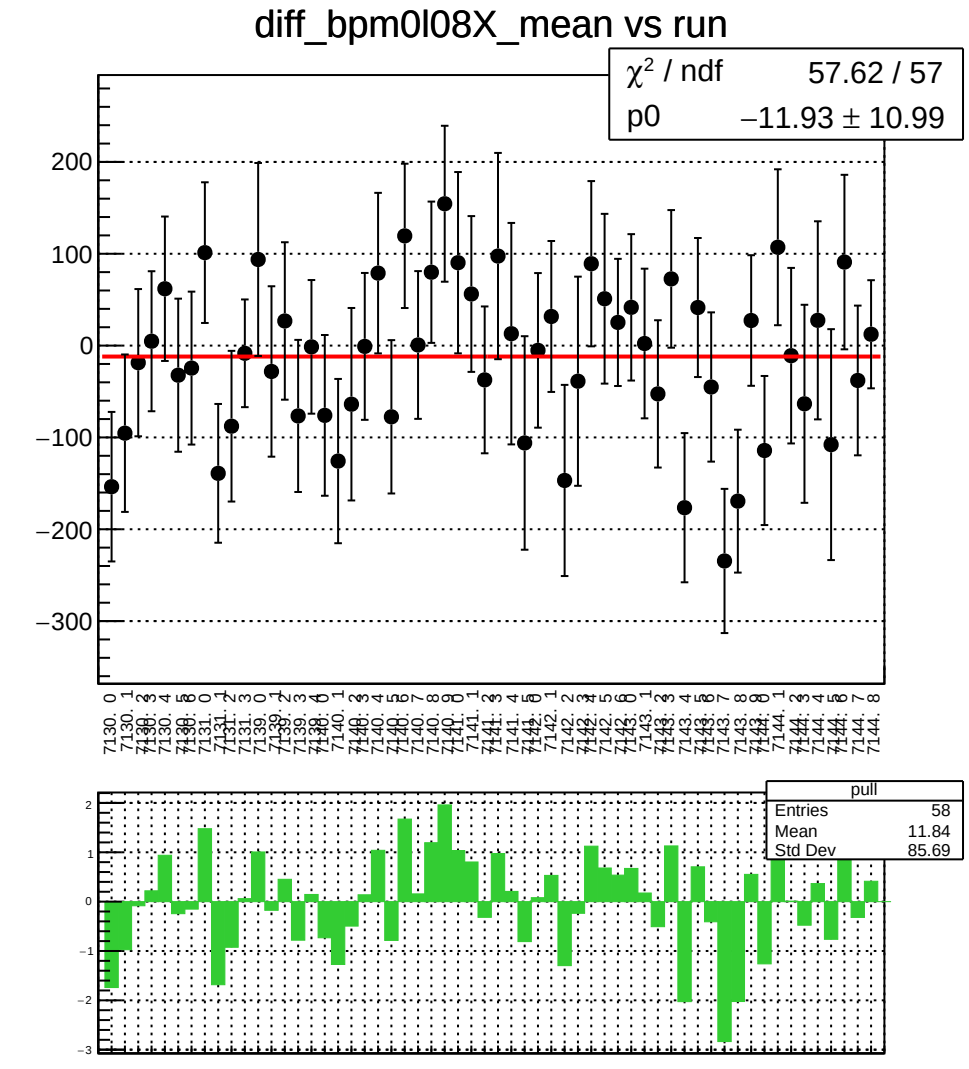

pull1D
Entries 58
Mean −0.006704
Std Dev 0.9758

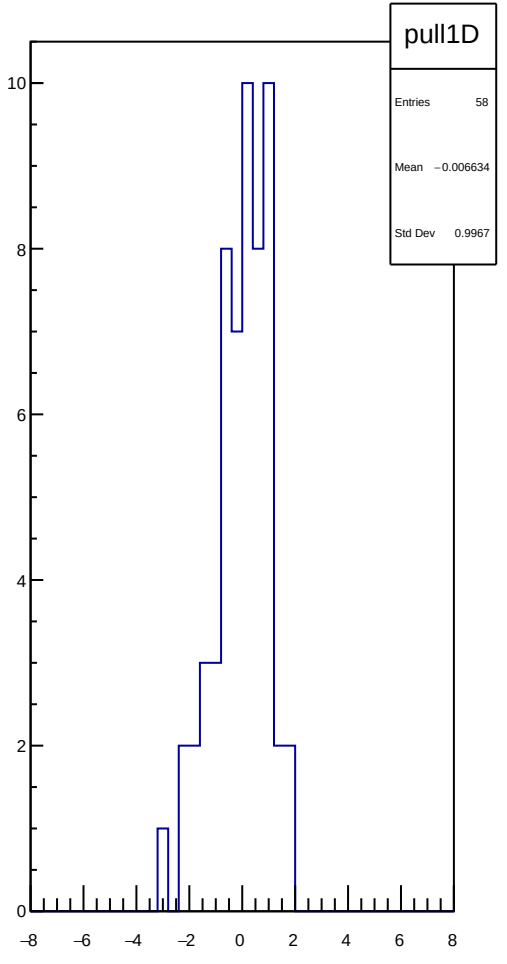

diff_bpm0l07X_rms vs run
χ² / ndf 1.632e+04 / 57
p0 9347 ± 8.946
14000
13000
12000
11000
10000
9000
8000

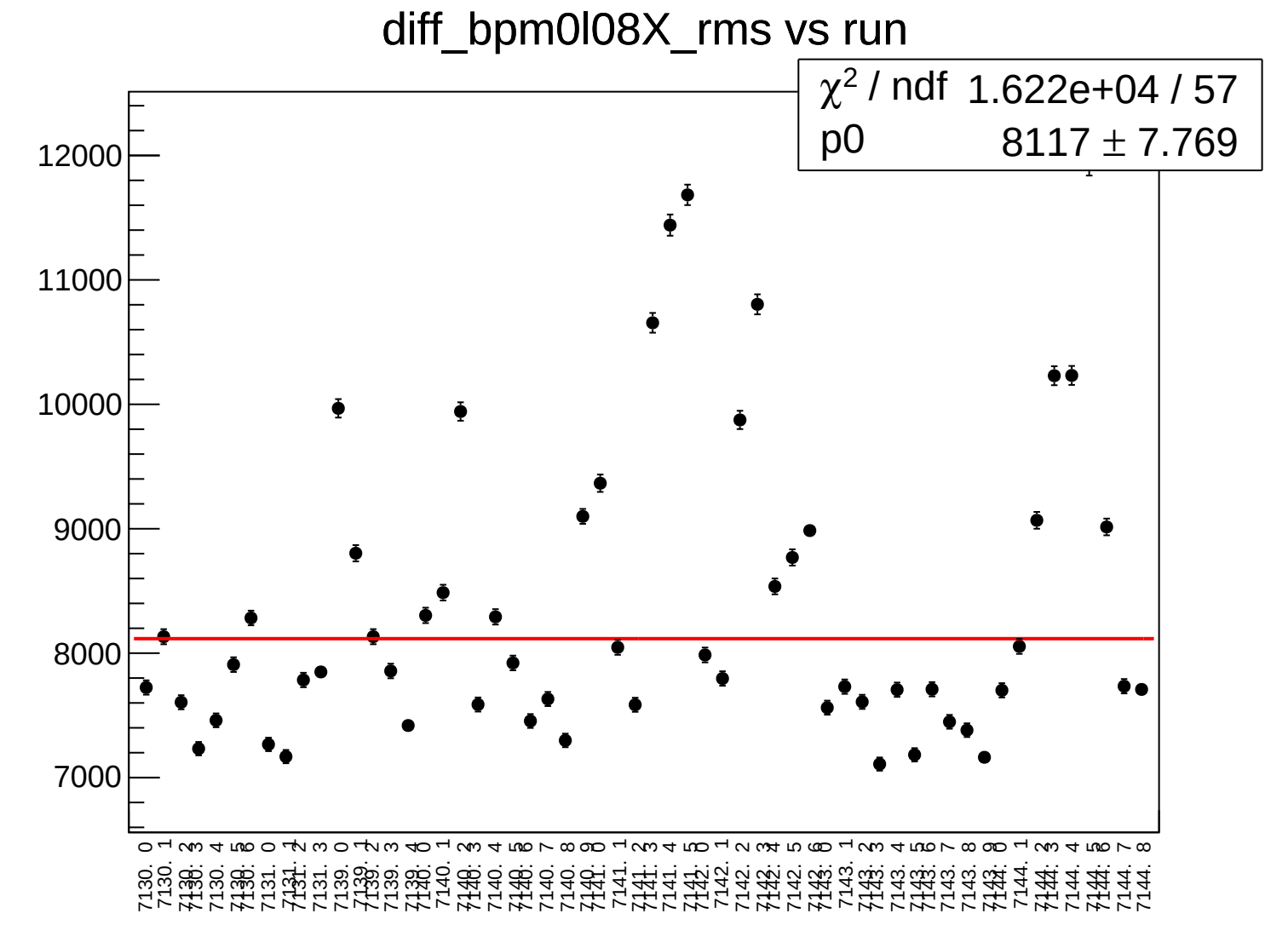

diff_bpm0l07Y_mean vs run
χ² / ndf 49.33 / 57
p0 −2.239 ± 1.488
pull
Entries 58
Mean −88.14
Std Dev 107.4

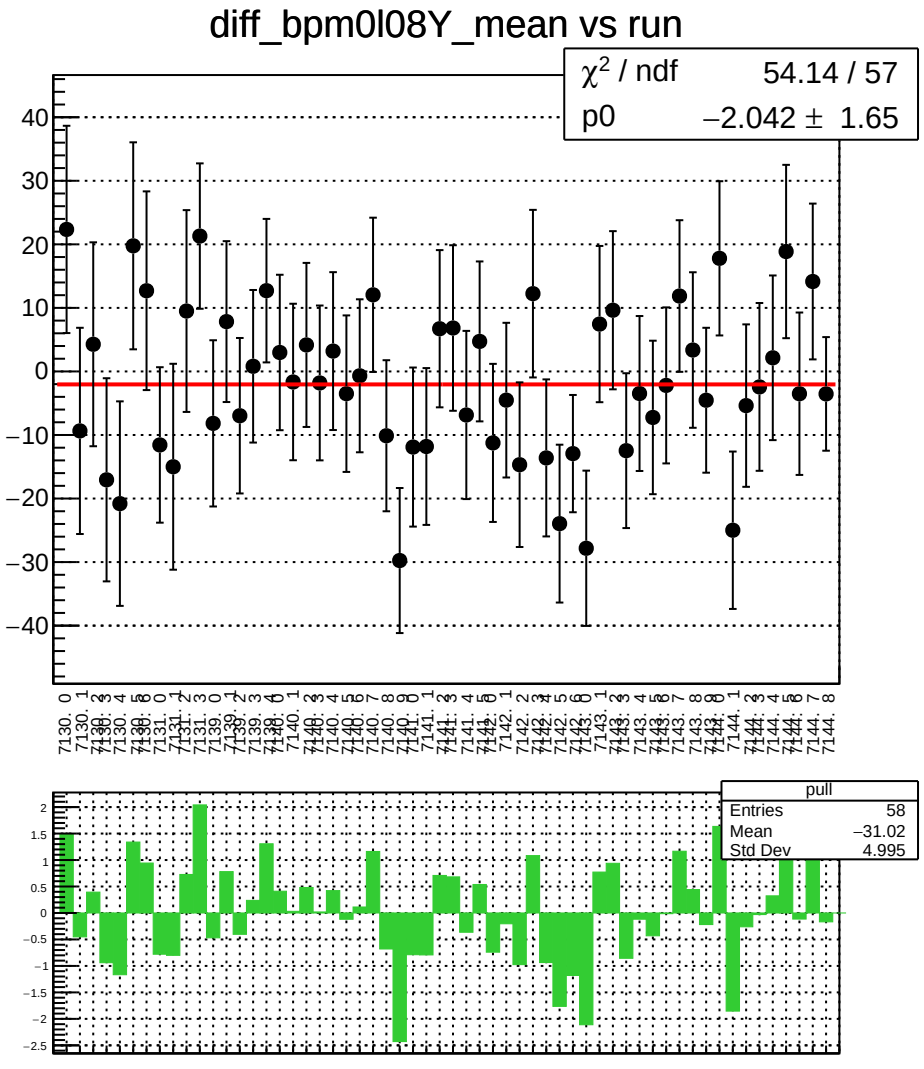

pull1D
Entries 58
Mean 0.02454
Std Dev 0.9219

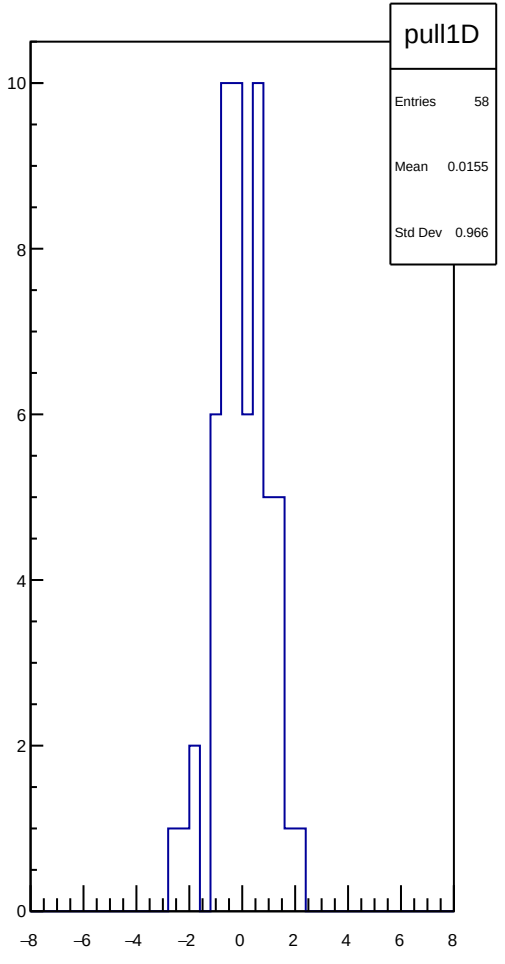

diff_bpm0l07Y_rms vs run
χ² / ndf 1.318e+04 / 57
p0 1101 ± 1.052
1500
1400
1300
1200
1100
1000

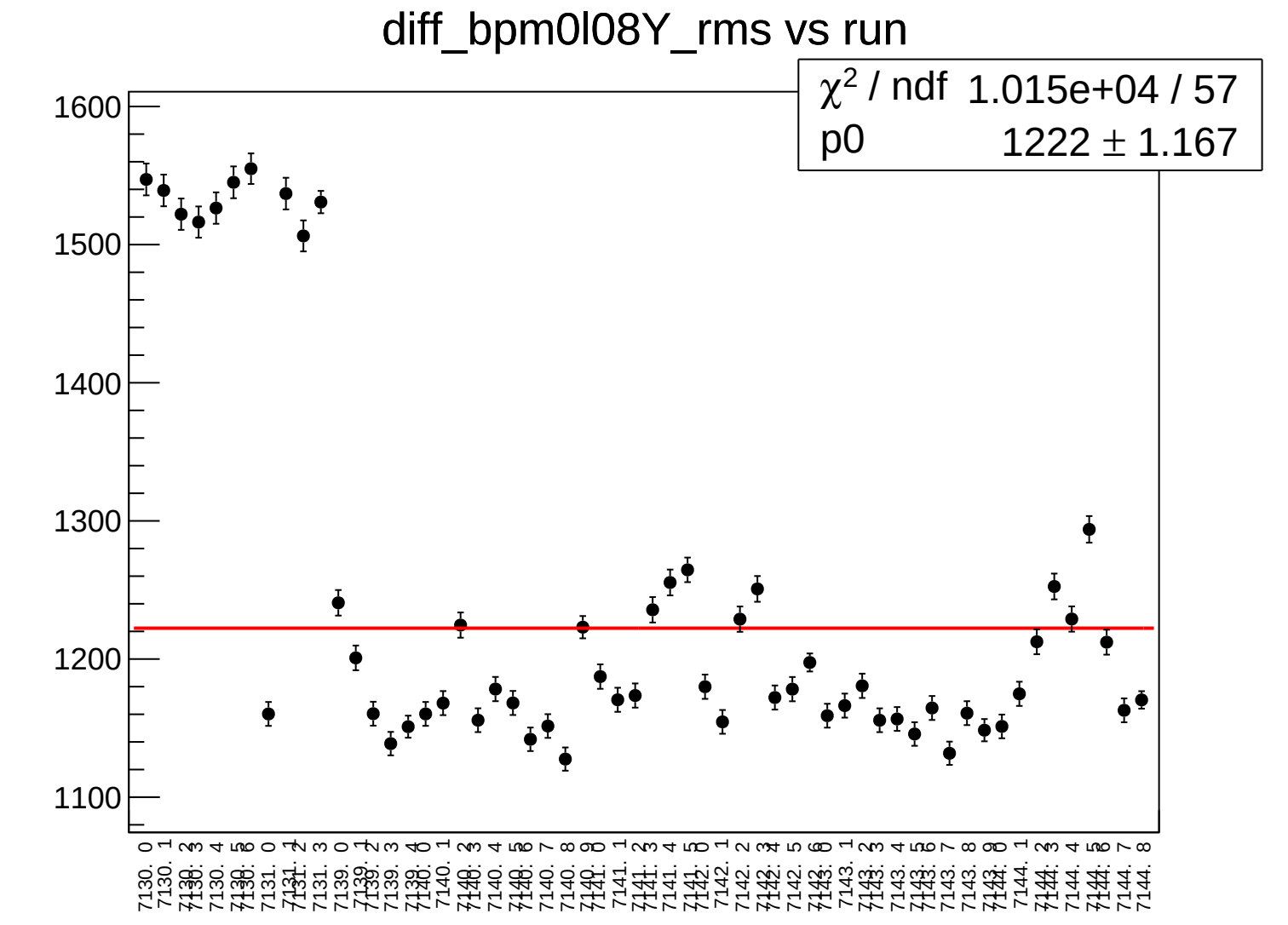

diff_bpm0l08X_mean vs run
χ² / ndf 57.62 / 57
p0 −11.93 ± 10.99
pull
Entries 58
Mean 11.84
Std Dev 85.69

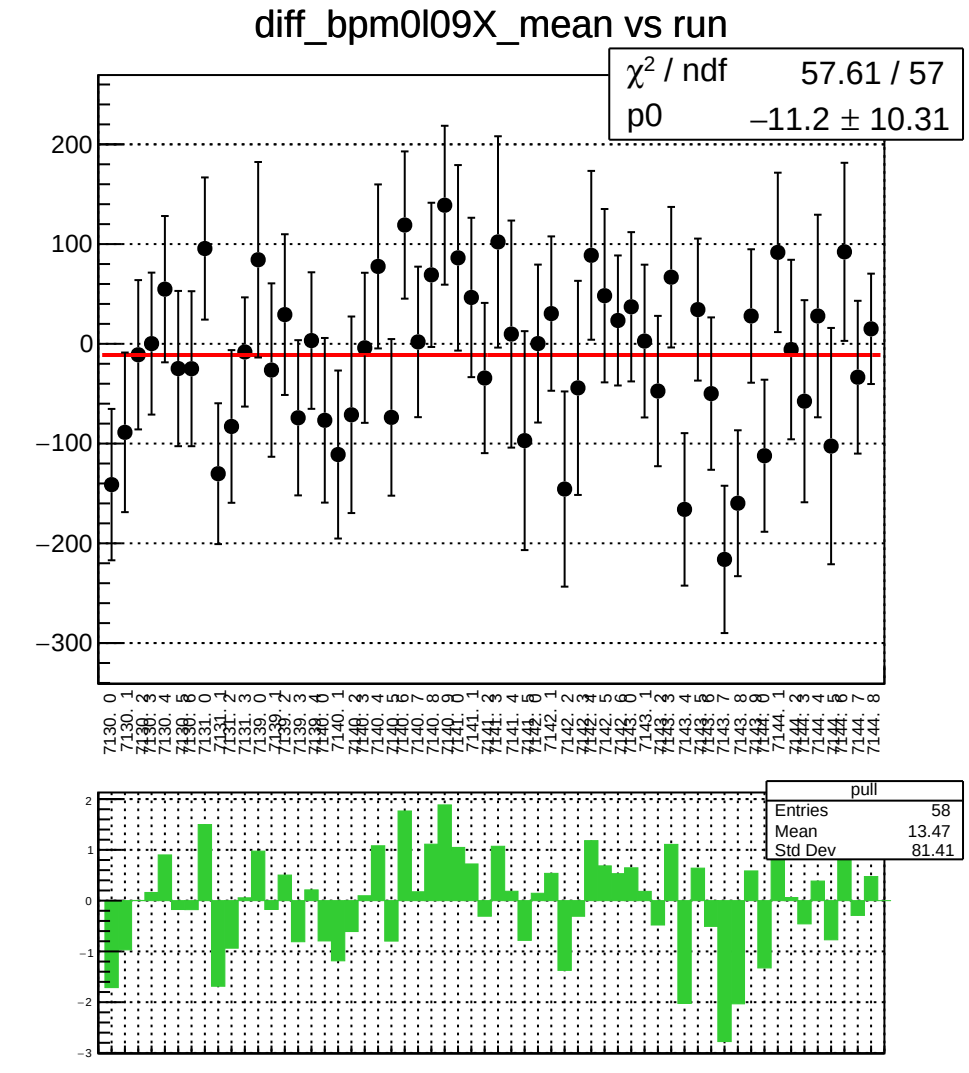

pull1D
Entries 58
Mean −0.006634
Std Dev 0.9967

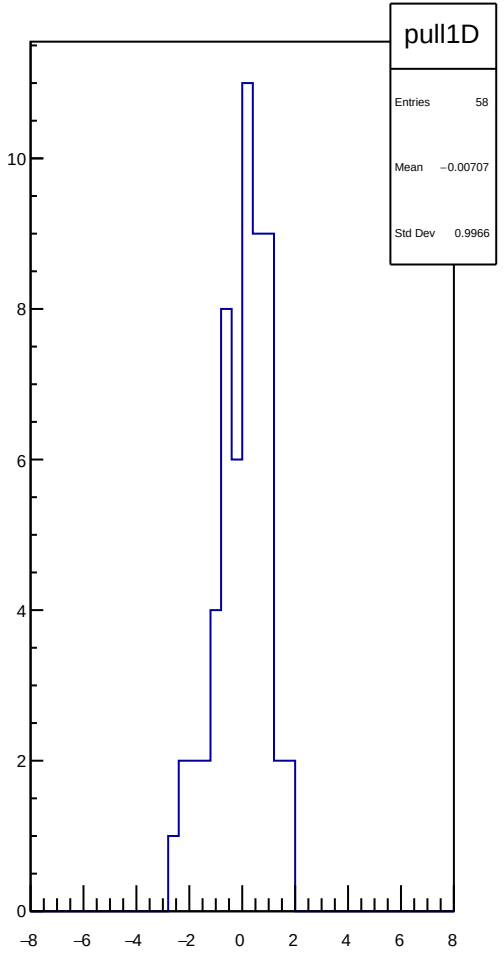

diff_bpm0l08X_rms vs run
χ² / ndf 1.622e+04 / 57
p0 8117 ± 7.769
12000
11000
10000
9000
8000
7000

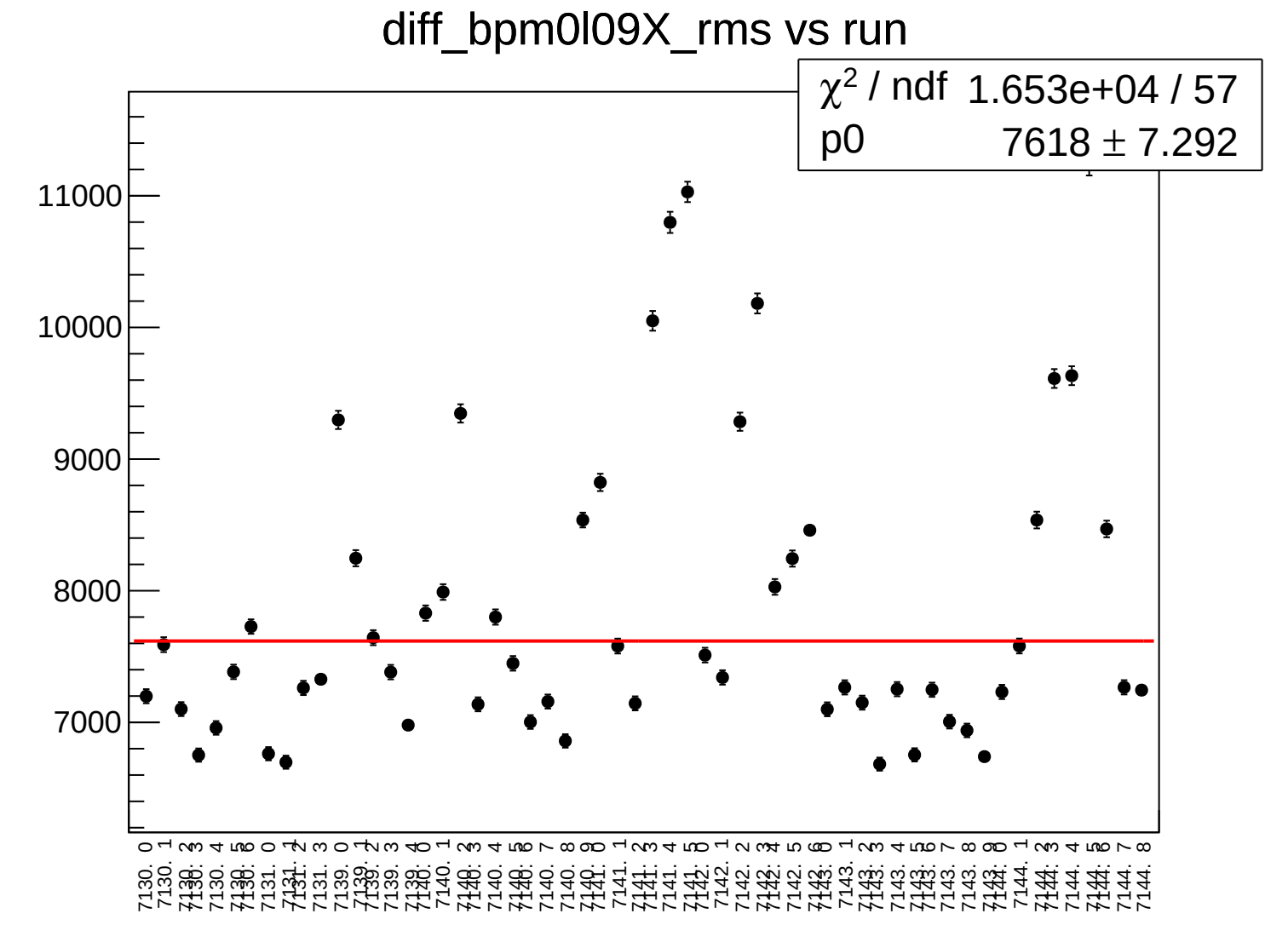

diff_bpm0l08Y_mean vs run
χ² / ndf 54.14 / 57
p0 −2.042 ± 1.65
pull
Entries 58
Mean −31.02
Std Dev 4.995

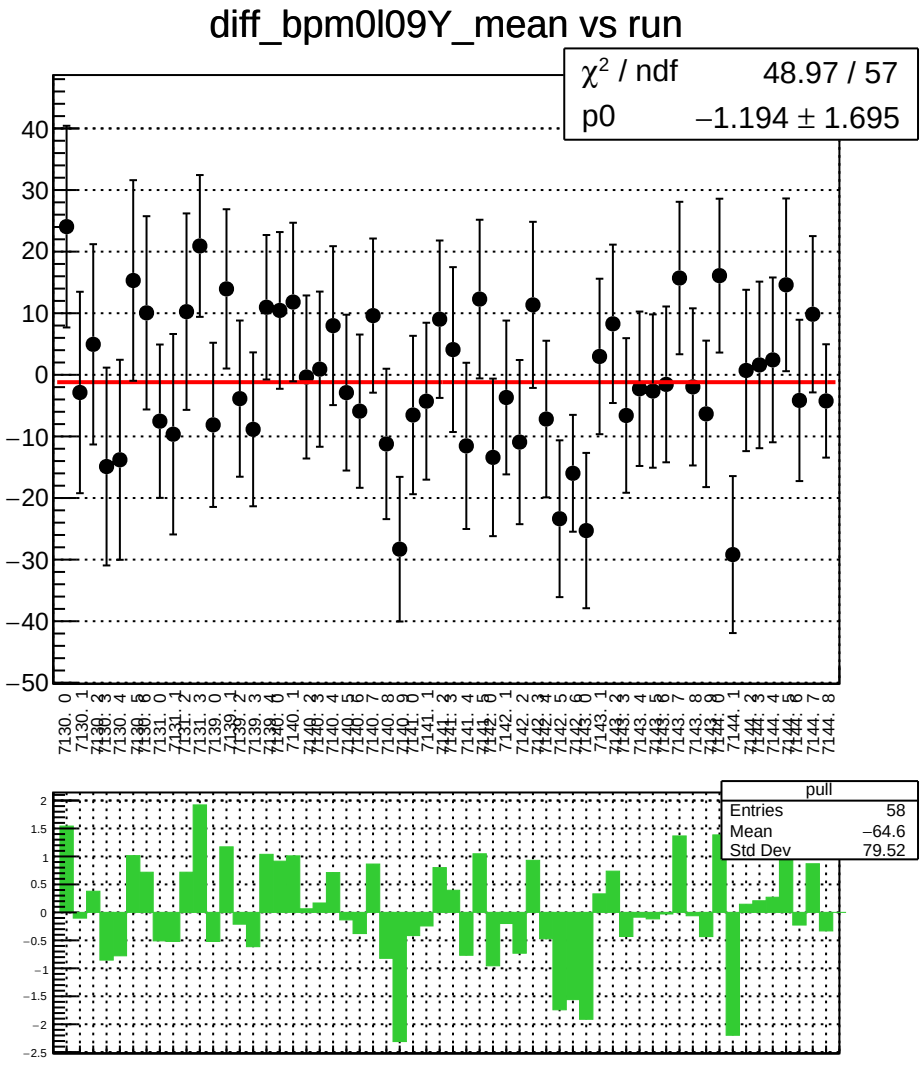

pull1D
Entries 58
Mean 0.0155
Std Dev 0.966

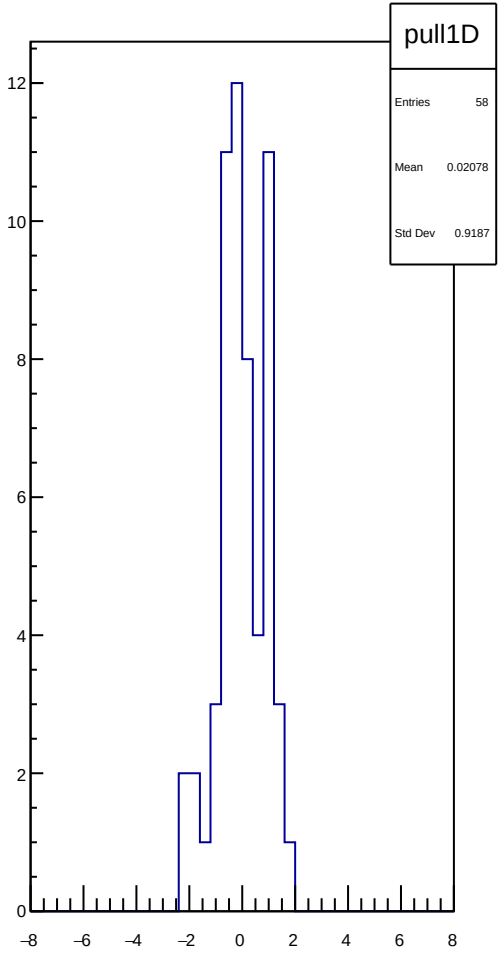

diff_bpm0l08Y_rms vs run
χ² / ndf 1.015e+04 / 57
p0 1222 ± 1.167
1600
1500
1400
1300
1200
1100

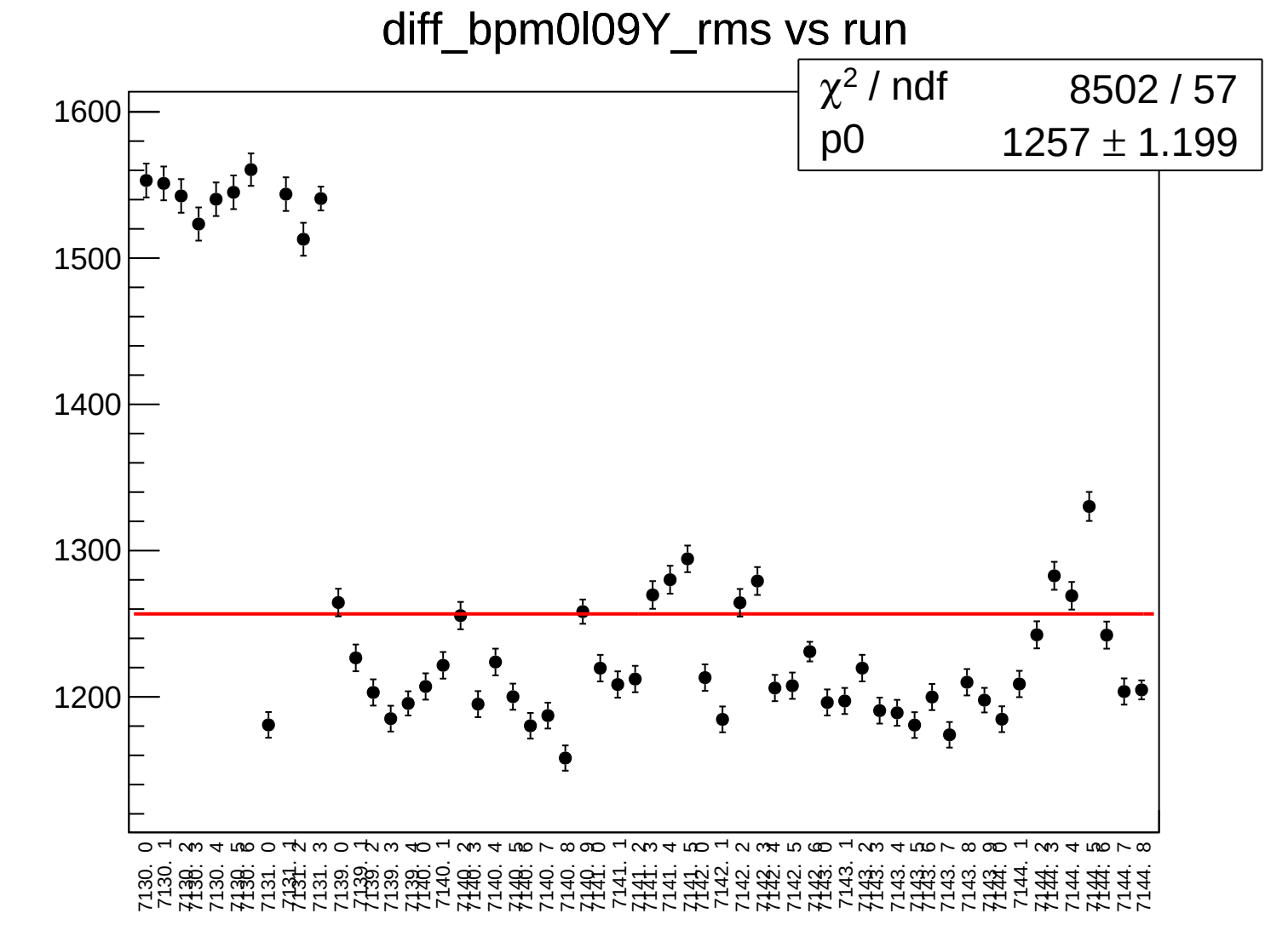

diff_bpm0l09X_mean vs run
χ² / ndf 57.61 / 57
p0 −11.2 ± 10.31
pull
Entries 58
Mean 13.47
Std Dev 81.41

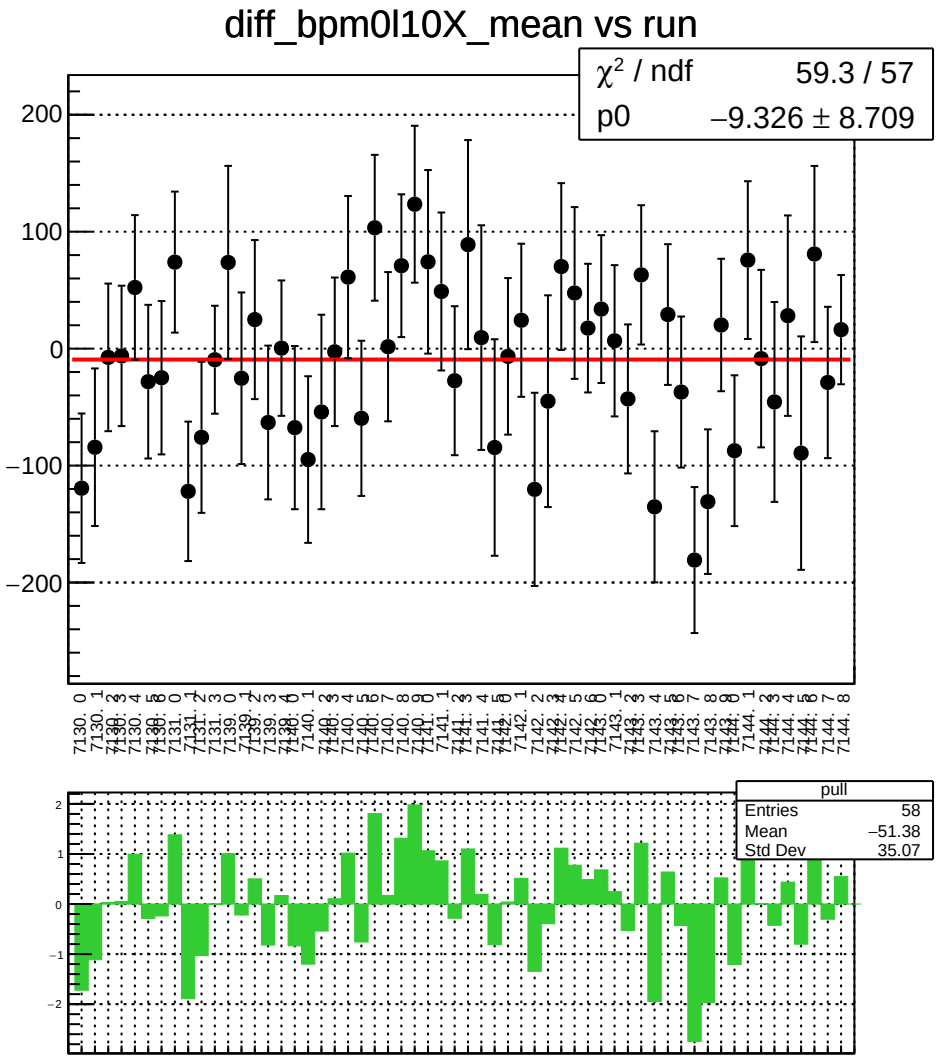

pull1D
Entries 58
Mean −0.00707
Std Dev 0.9966

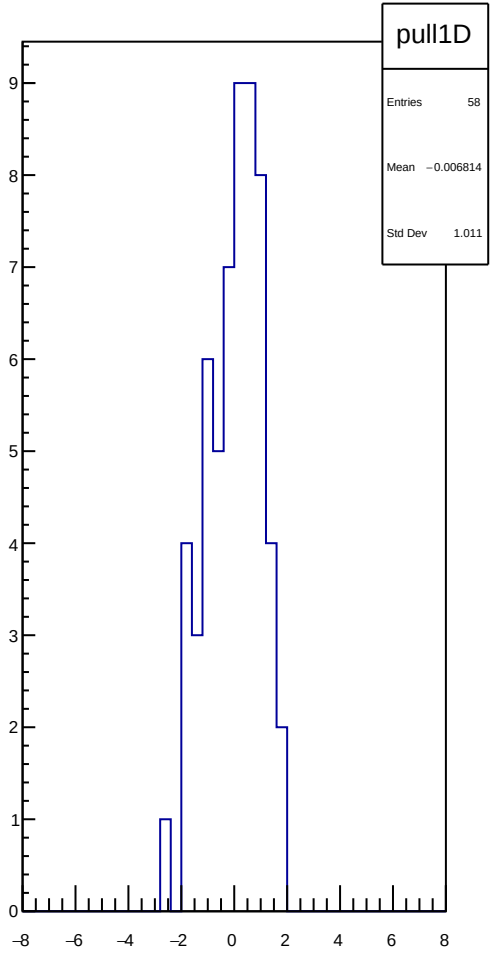

diff_bpm0l09X_rms vs run
χ² / ndf 1.653e+04 / 57
p0 7618 ± 7.292
11000
10000
9000
8000
7000

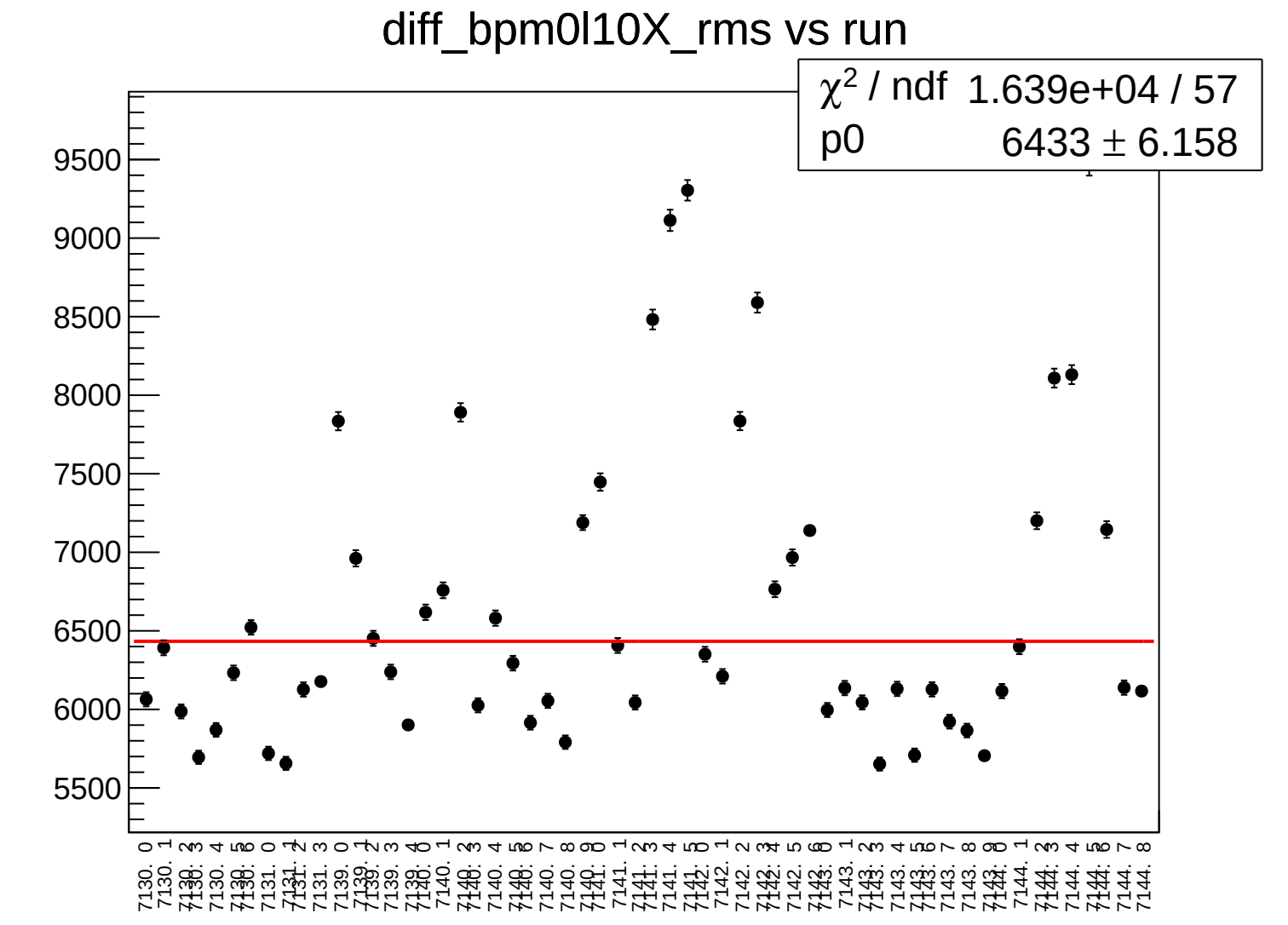

diff_bpm0l09Y_mean vs run
χ² / ndf 48.97 / 57
p0 −1.194 ± 1.695
pull
Entries 58
Mean −64.6
Std Dev 79.52

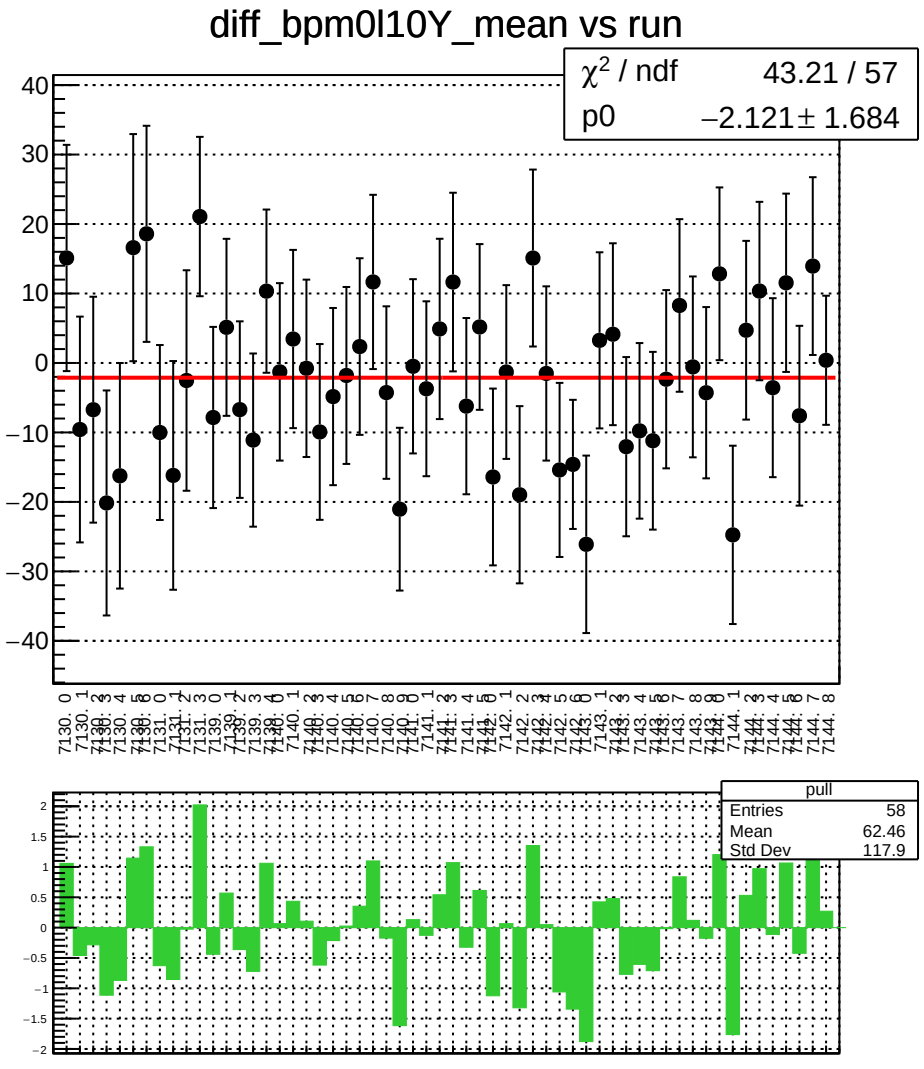

pull1D
Entries 58
Mean 0.02078
Std Dev 0.9187

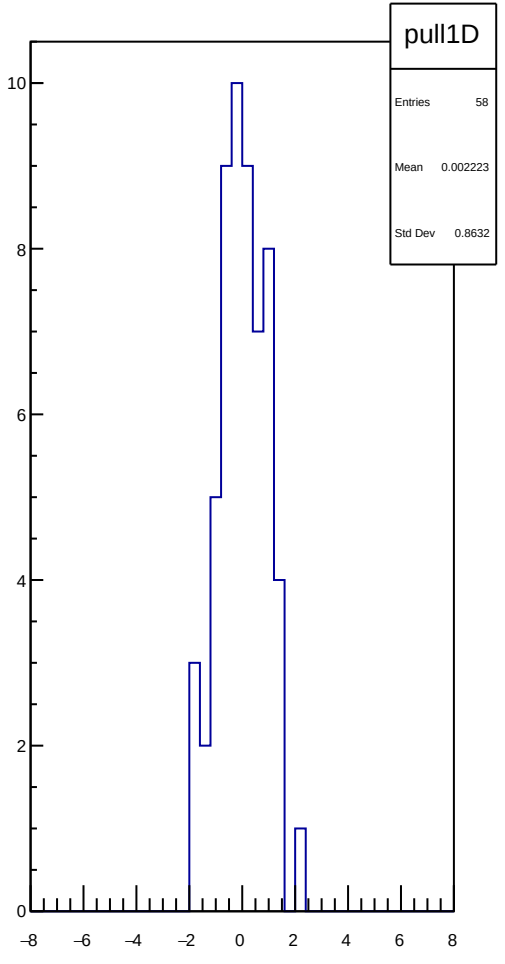

diff_bpm0l09Y_rms vs run
χ² / ndf 8502 / 57
p0 1257 ± 1.199
1600
1500
1400
1300
1200

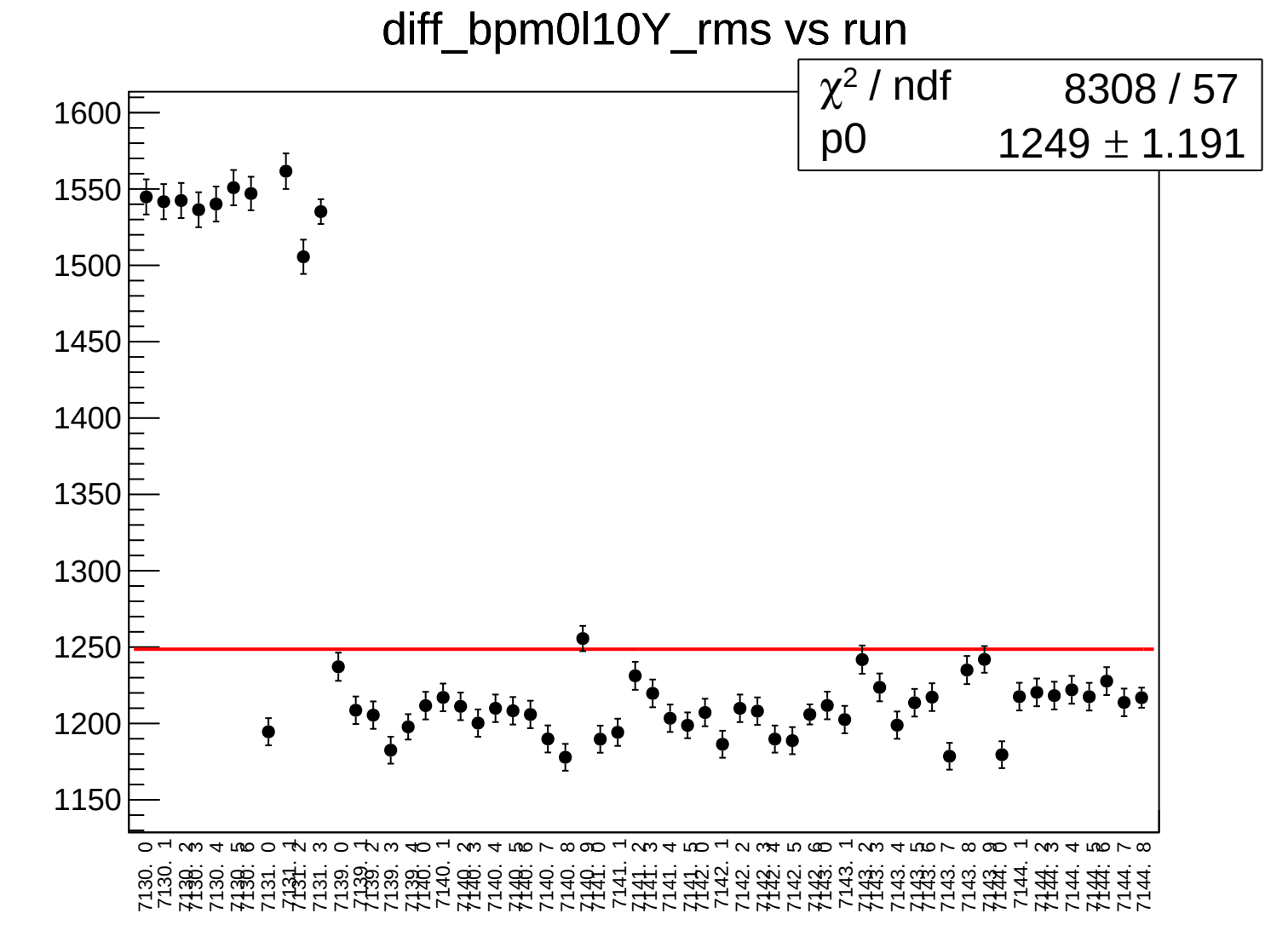

diff_bpm0l10X_mean vs run
χ² / ndf 59.3 / 57
p0 −9.326 ± 8.709
200
100
0
−100
−200
pull
Entries 58
Mean −51.38
Std Dev 35.07
2
1
0
−1
−2

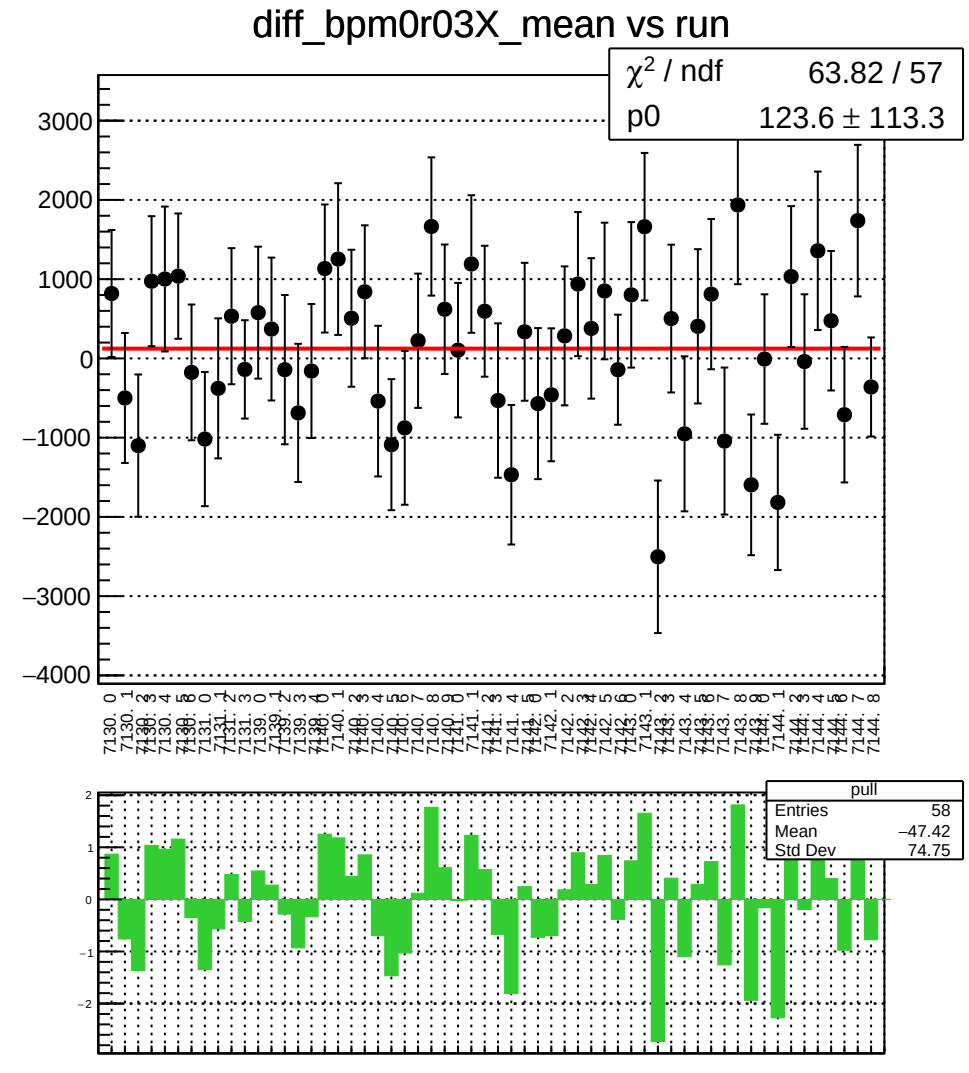

pull1D
Entries 58
Mean −0.006814
Std Dev 1.011
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

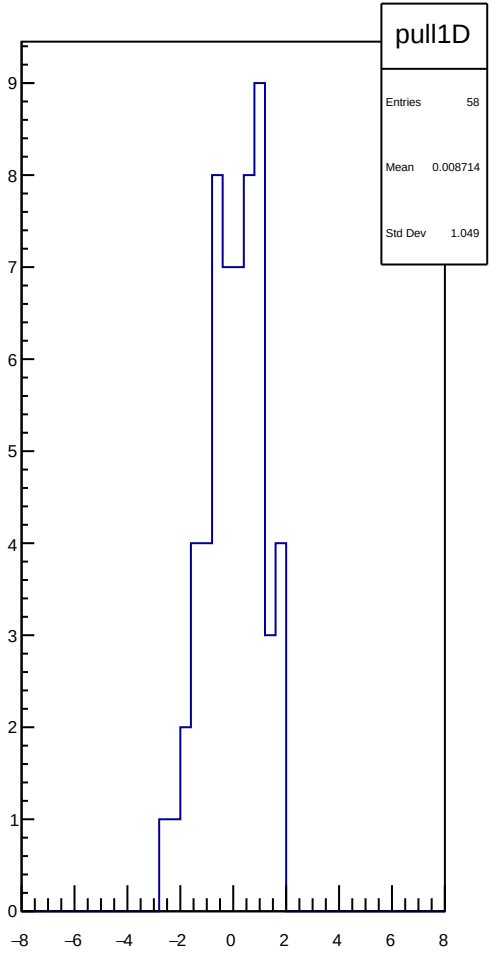

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.639e+04 / 57
p0 6433 ± 6.158
9500
9000
8500
8000
7500
7000
6500
6000
5500

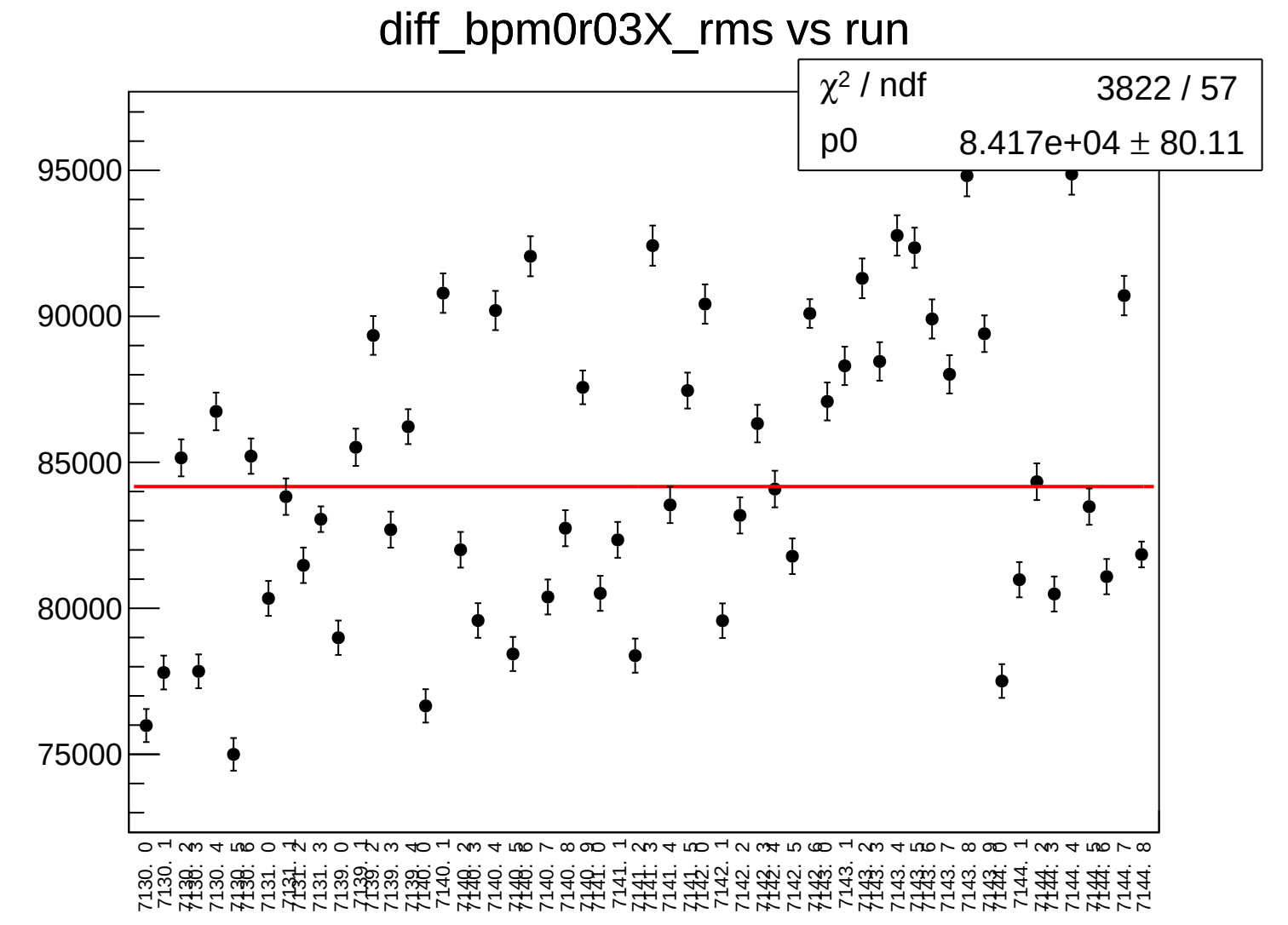

diff_bpm0l10Y_mean vs run
χ² / ndf 43.21 / 57
p0 −2.121 ± 1.684
pull
Entries 58
Mean 62.46
Std Dev 117.9

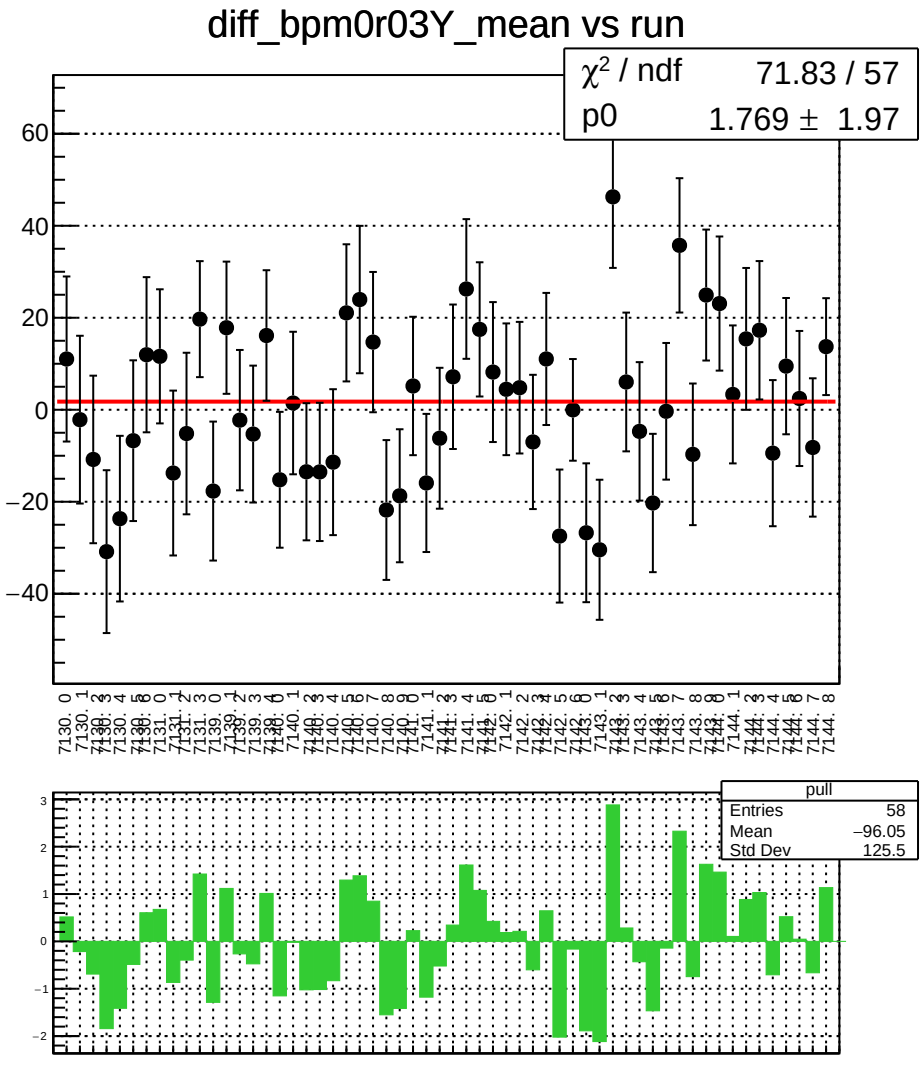

pull1D
Entries 58
Mean 0.002223
Std Dev 0.8632

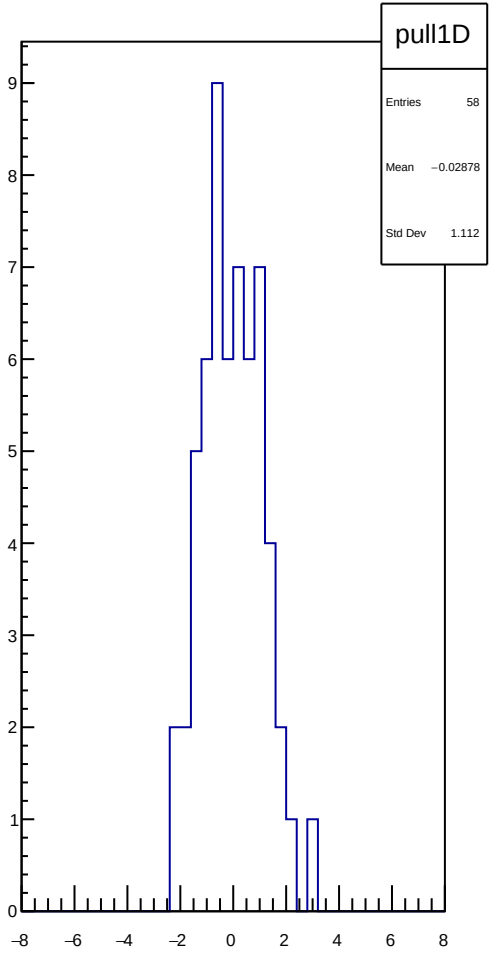

diff_bpm0l10Y_rms vs run
χ² / ndf 8308 / 57
p0 1249 ± 1.191
1600
1550
1500
1450
1400
1350
1300
1250
1200
1150

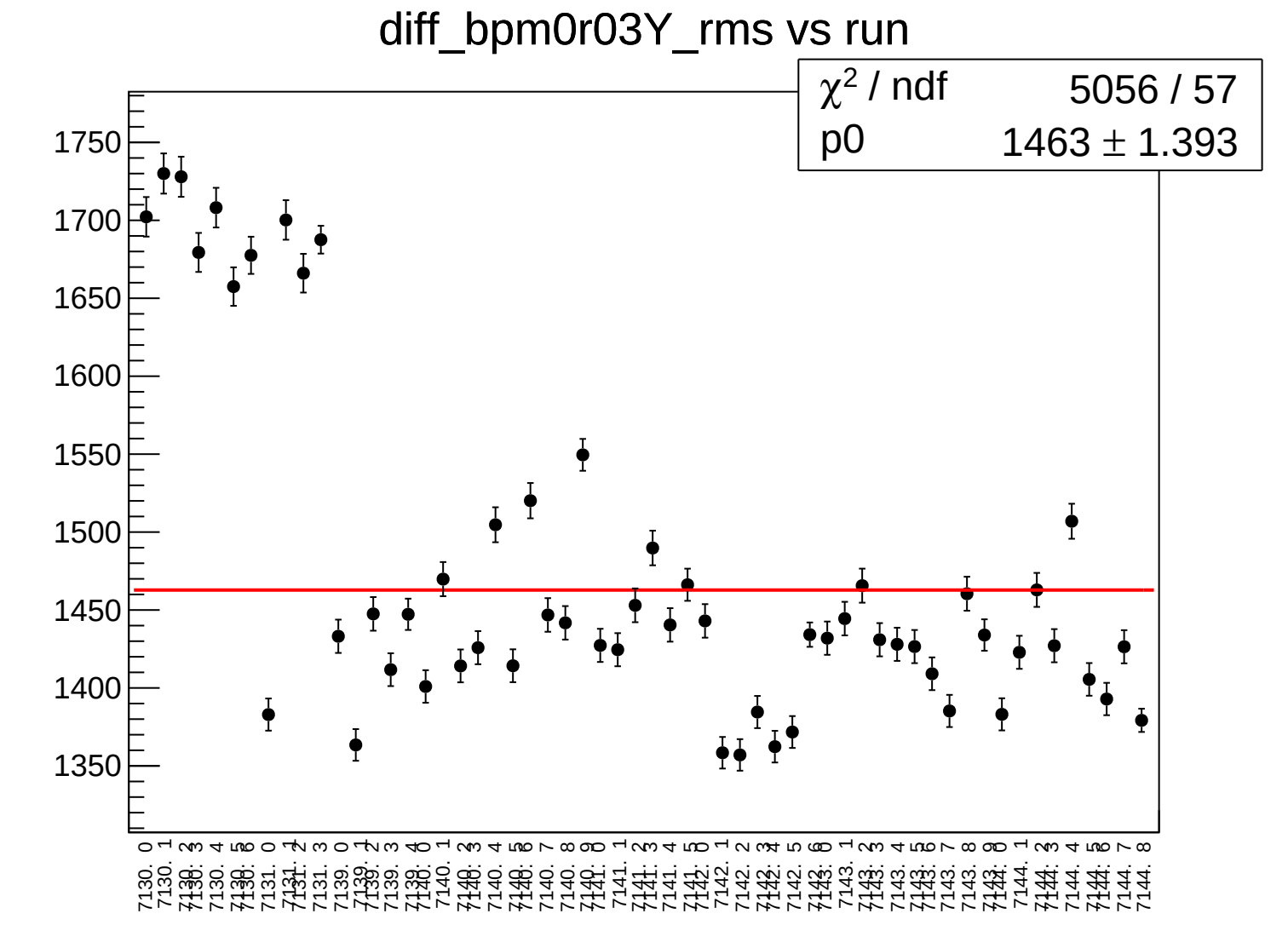

diff_bpm0r03X_mean vs run
χ^2 / ndf 63.82 / 57
p0 123.6 ± 113.3
pull
Entries 58
Mean −47.42
Std Dev 74.75

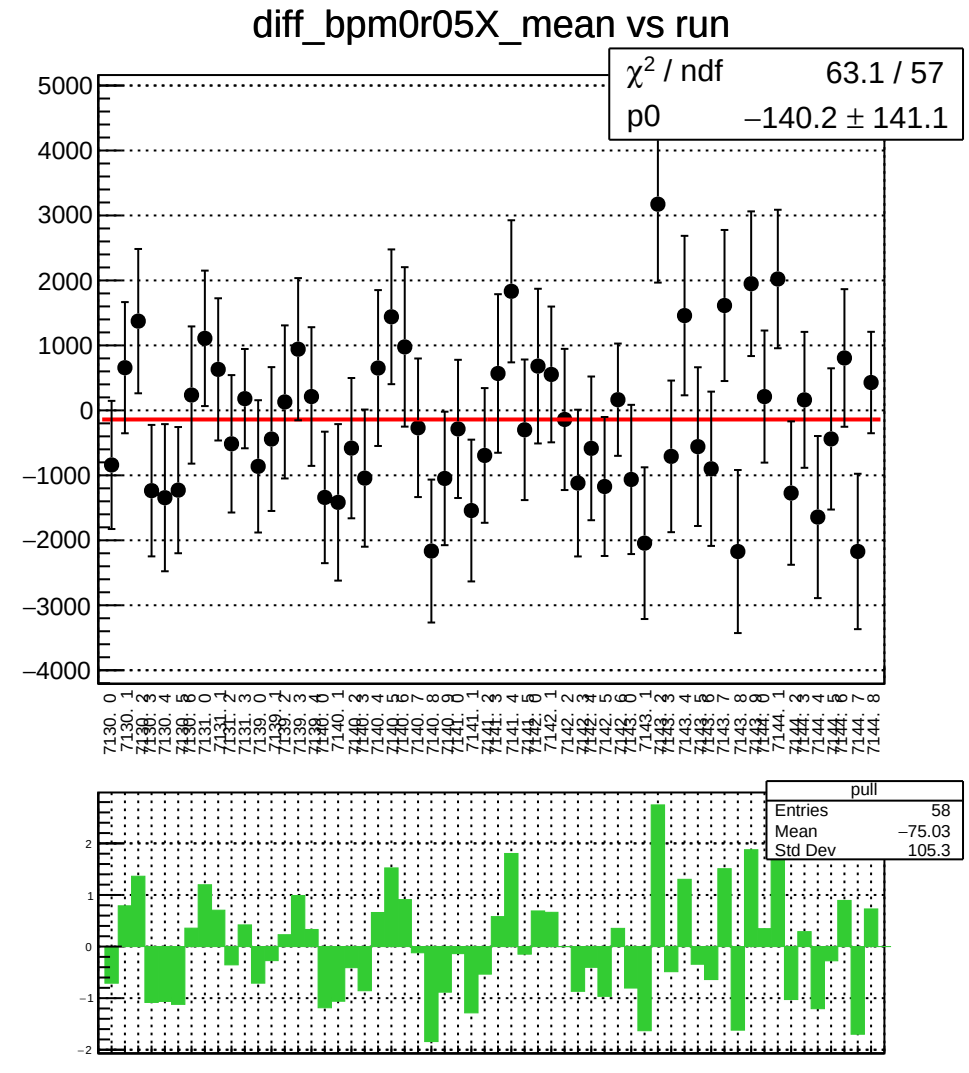

pull1D
Entries 58
Mean 0.008714
Std Dev 1.049

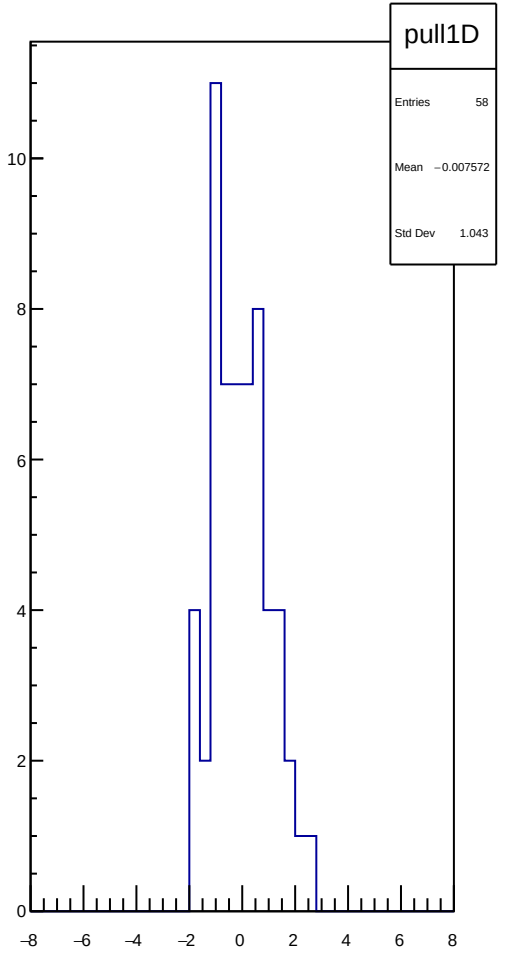

diff_bpm0r03X_rms vs run
χ² / ndf 3822 / 57
p0 8.417e+04 ± 80.11
95000
90000
85000
80000
75000

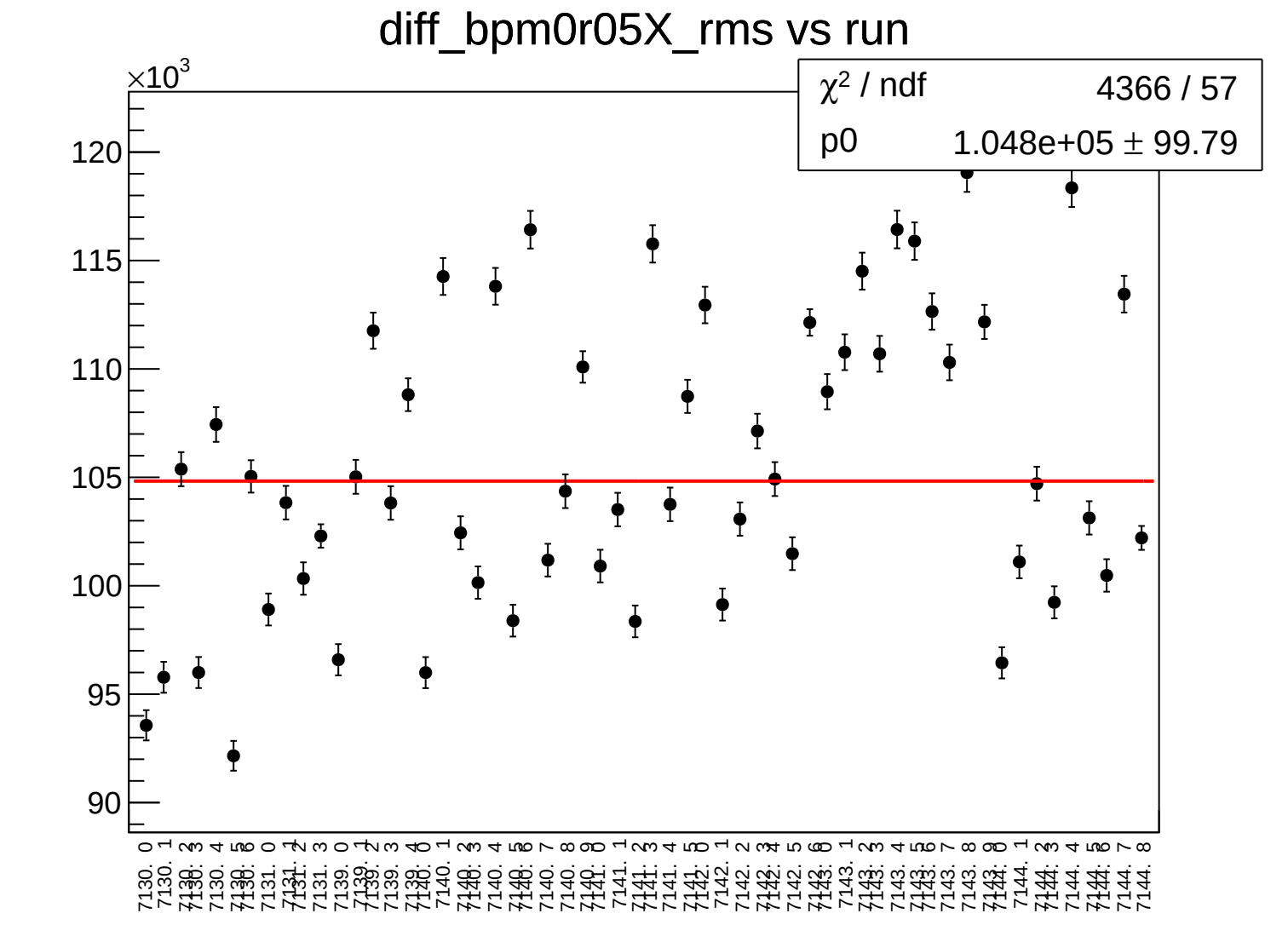

diff_bpm0r03Y_mean vs run
χ² / ndf 71.83 / 57
p0 1.769 ± 1.97
pull
Entries 58
Mean −96.05
Std Dev 125.5

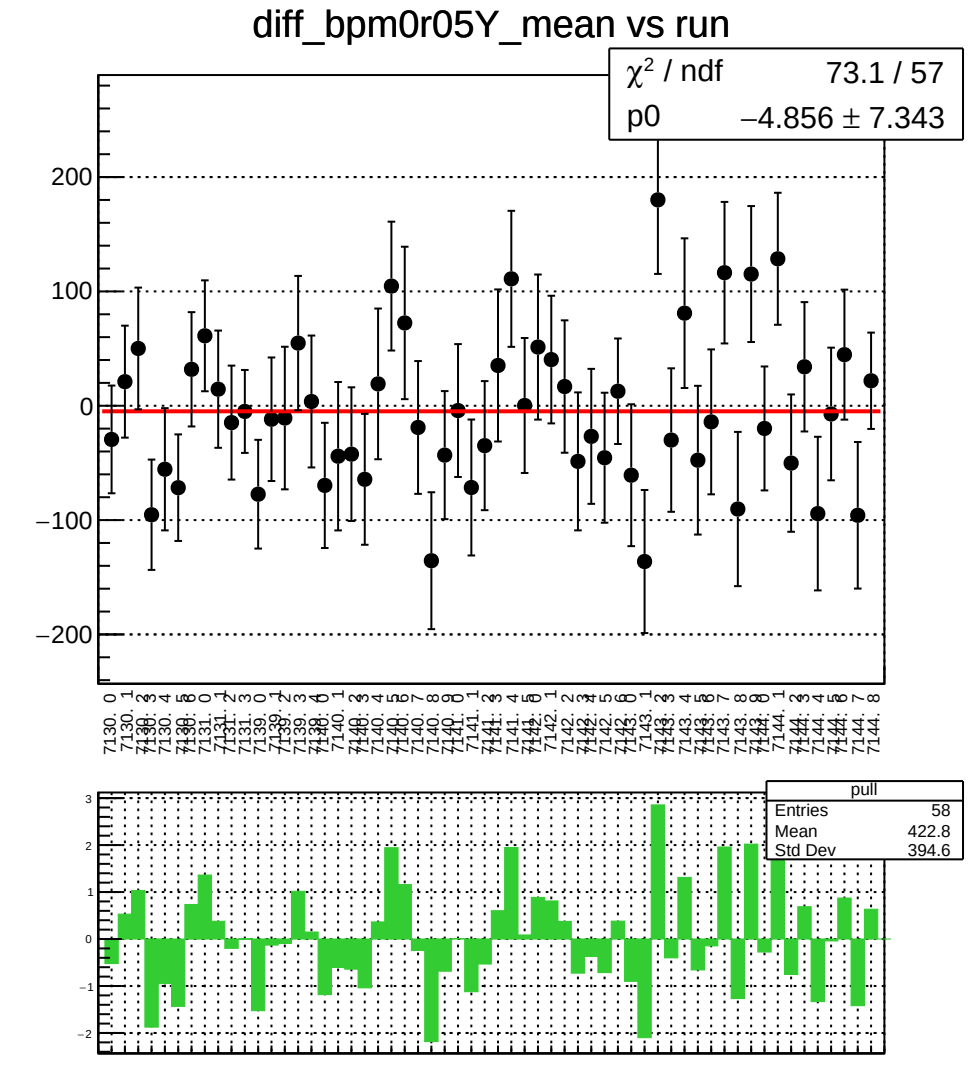

pull1D
Entries 58
Mean −0.02878
Std Dev 1.112

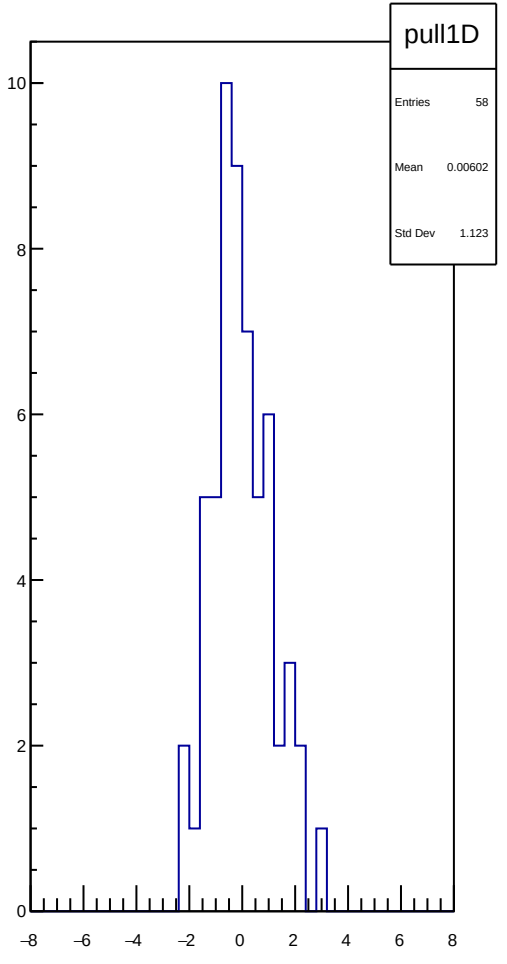

diff_bpm0r03Y_rms vs run
χ² / ndf 5056 / 57
p0 1463 ± 1.393
1750
1700
1650
1600
1550
1500
1450
1400
1350

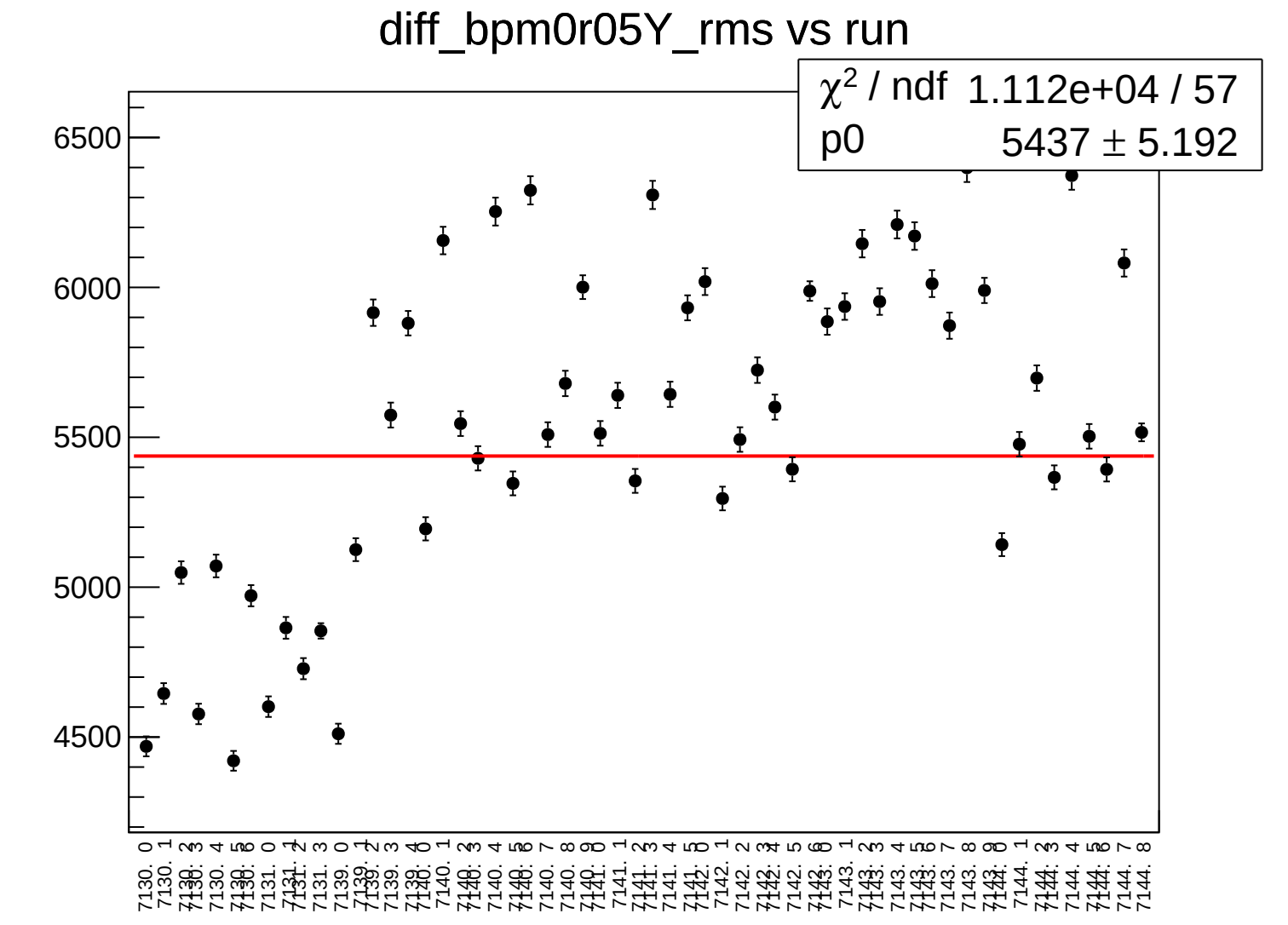

diff_bpm0r05X_mean vs run
χ^2 / ndf 63.1 / 57
p0 −140.2 ± 141.1
pull
Entries 58
Mean −75.03
Std Dev 105.3

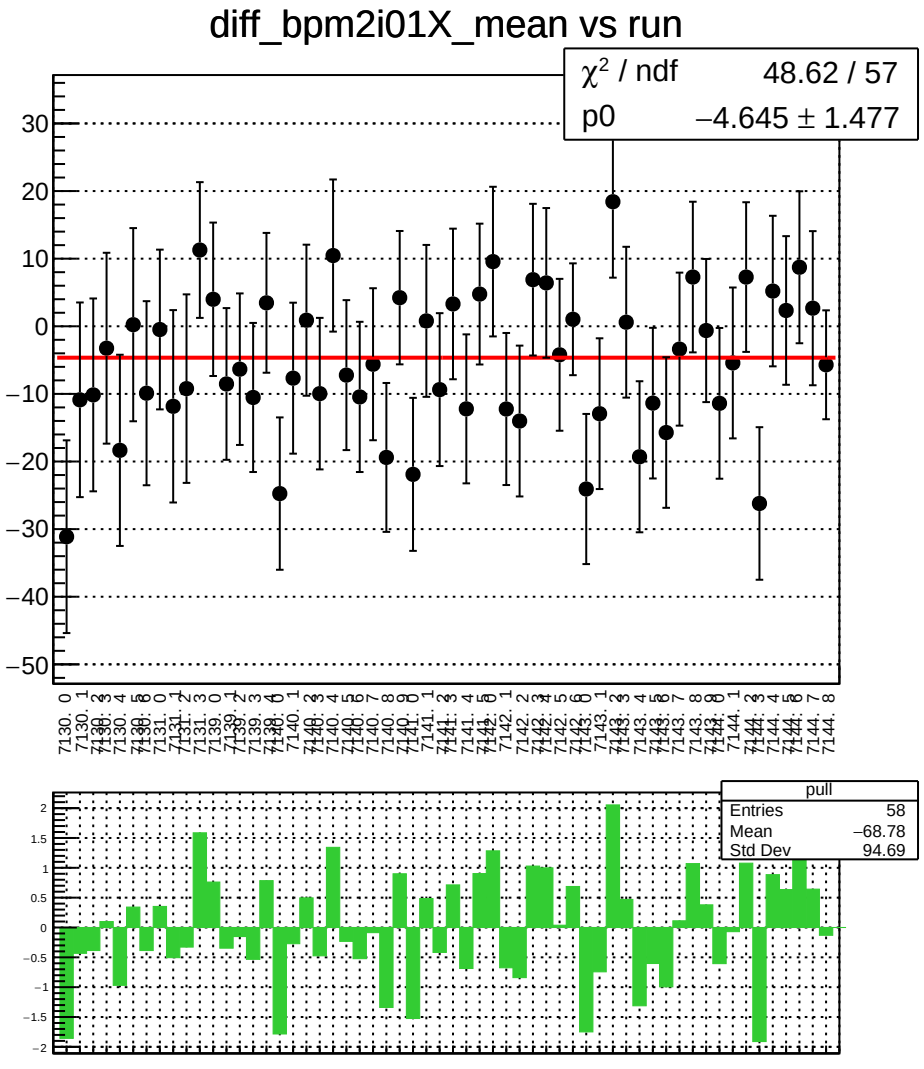

pull1D
Entries 58
Mean −0.007572
Std Dev 1.043

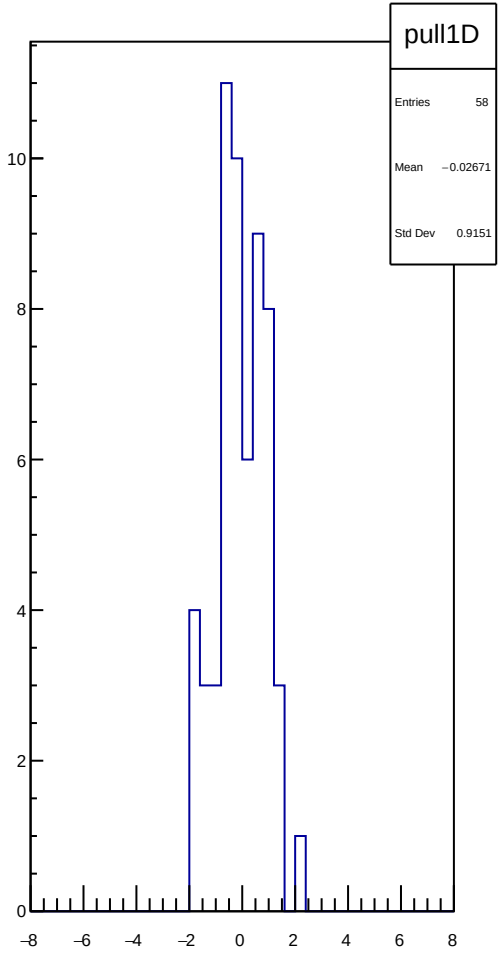

diff_bpm0r05X_rms vs run
×10^3
120
115
110
105
100
95
90
χ² / ndf 4366 / 57
p0 1.048e+05 ± 99.79

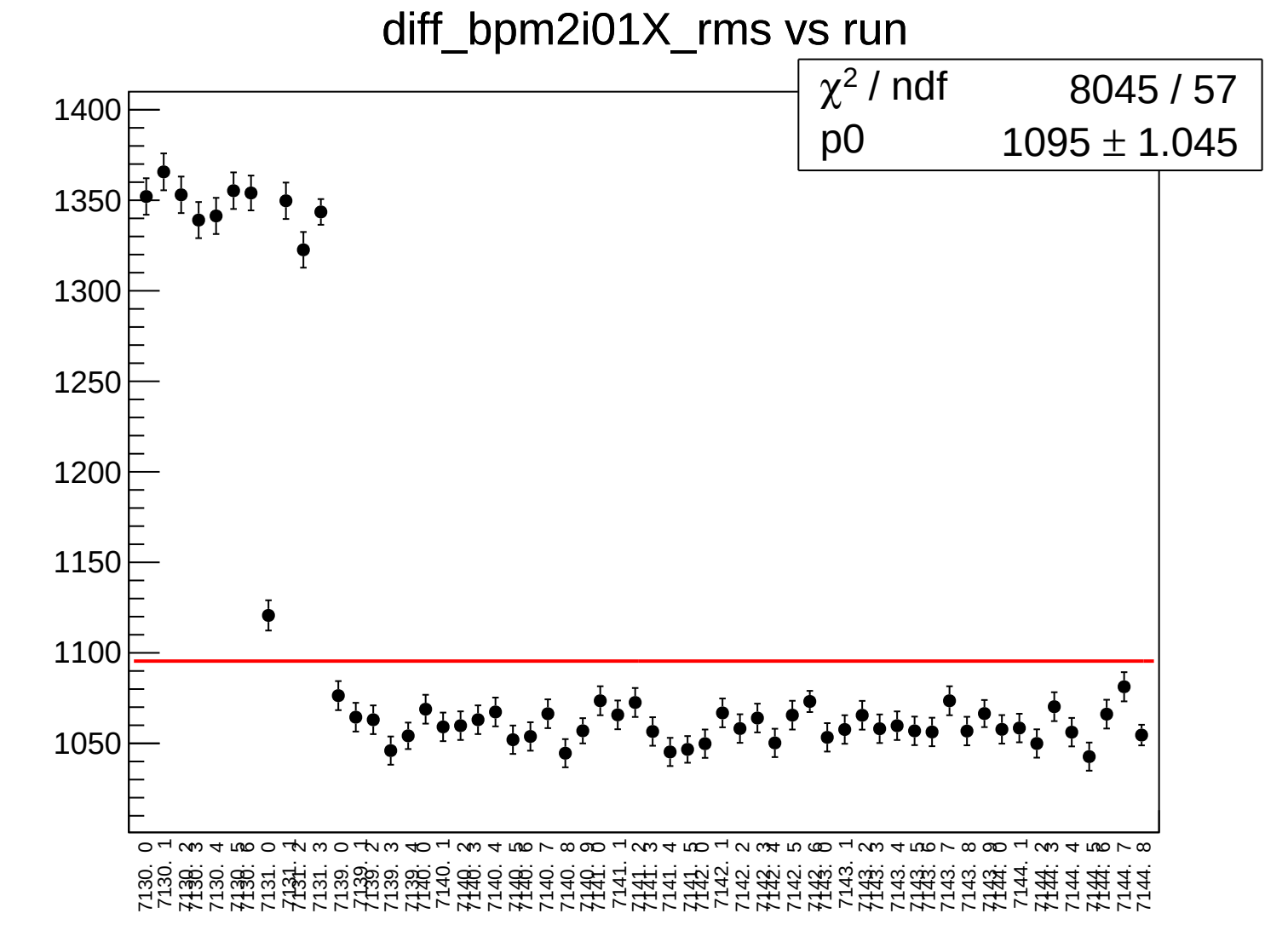

diff_bpm0r05Y_mean vs run
χ² / ndf 73.1 / 57
p0 −4.856 ± 7.343
pull
Entries 58
Mean 422.8
Std Dev 394.6

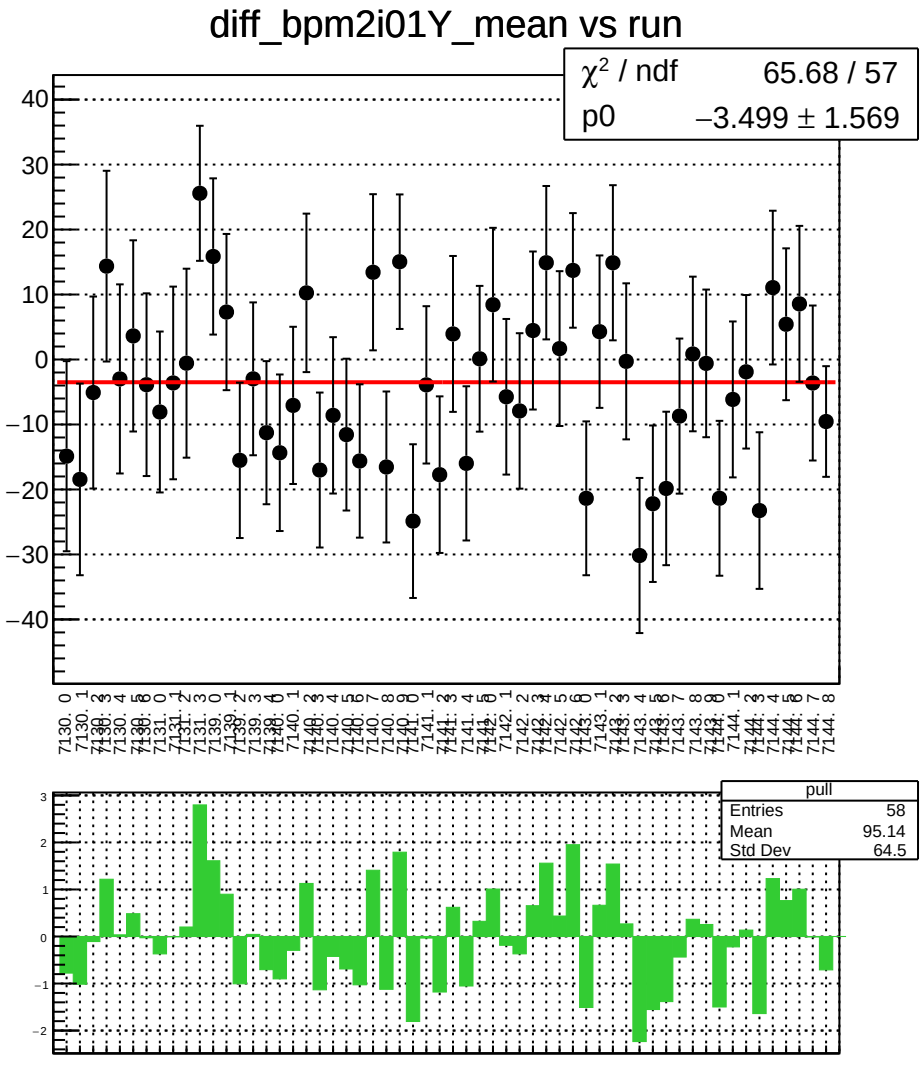

pull1D
Entries 58
Mean 0.00602
Std Dev 1.123

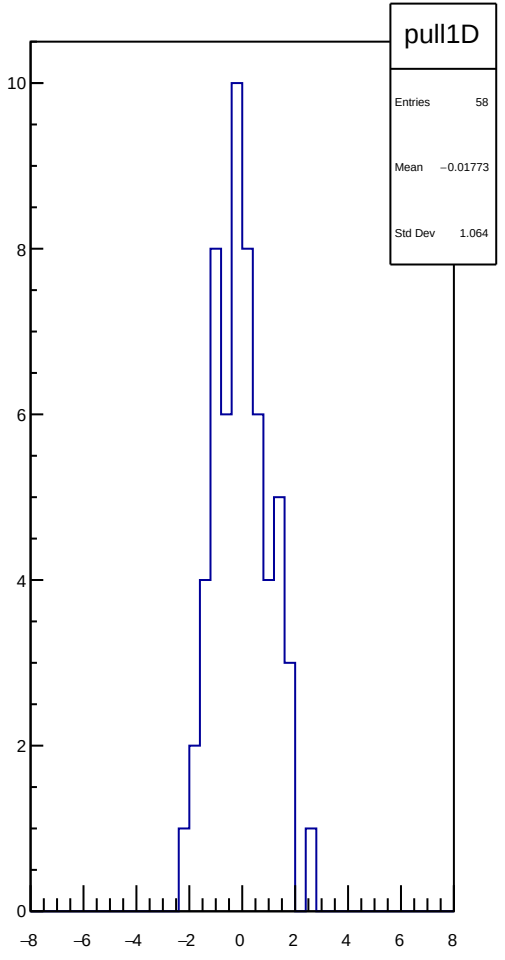

diff_bpm0r05Y_rms vs run
χ² / ndf 1.112e+04 / 57
p0 5437 ± 5.192
6500
6000
5500
5000
4500

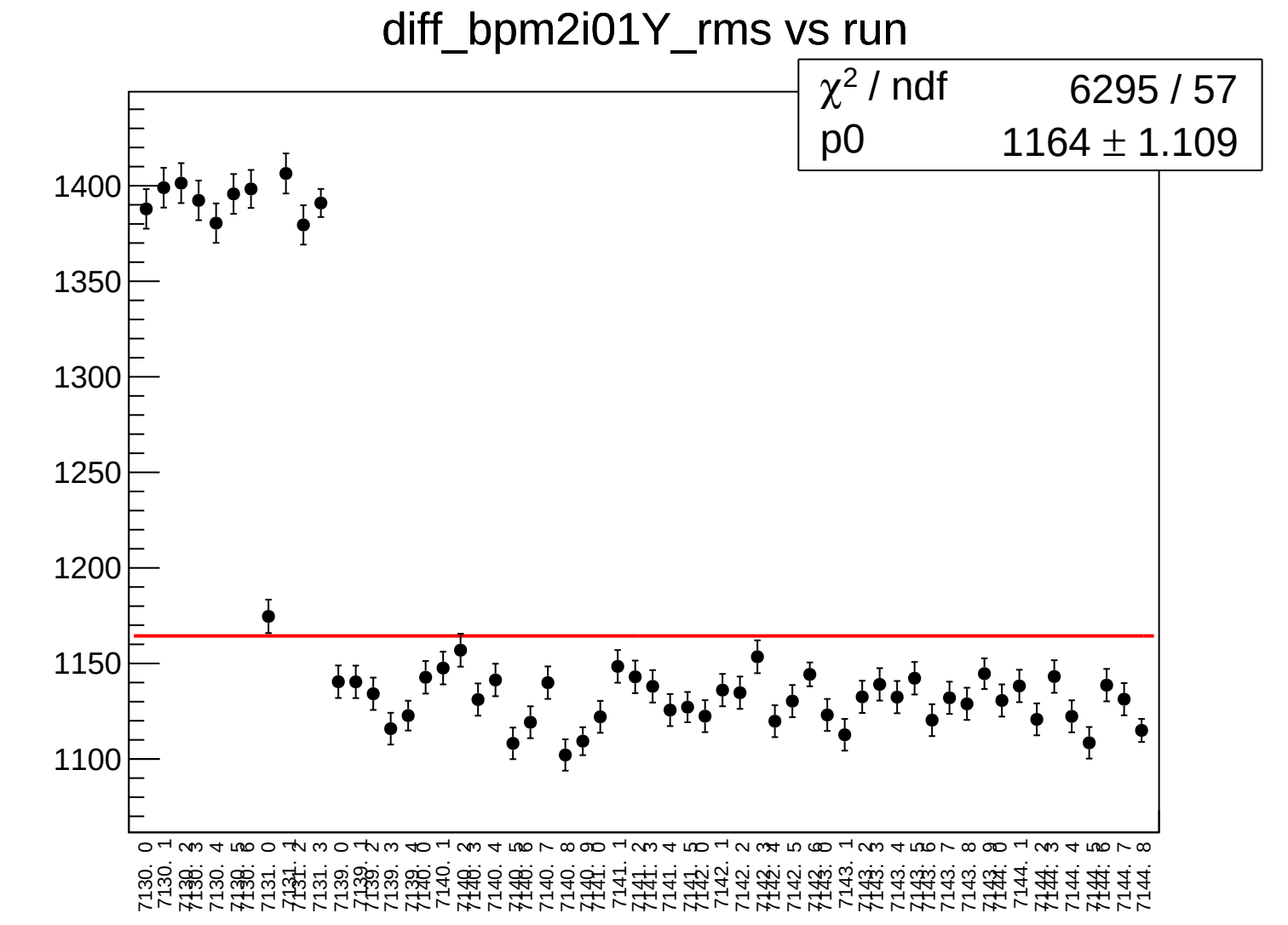

diff_bpm2i01X_mean vs run
χ² / ndf 48.62 / 57
p0 −4.645 ± 1.477
pull
Entries 58
Mean −68.78
Std Dev 94.69

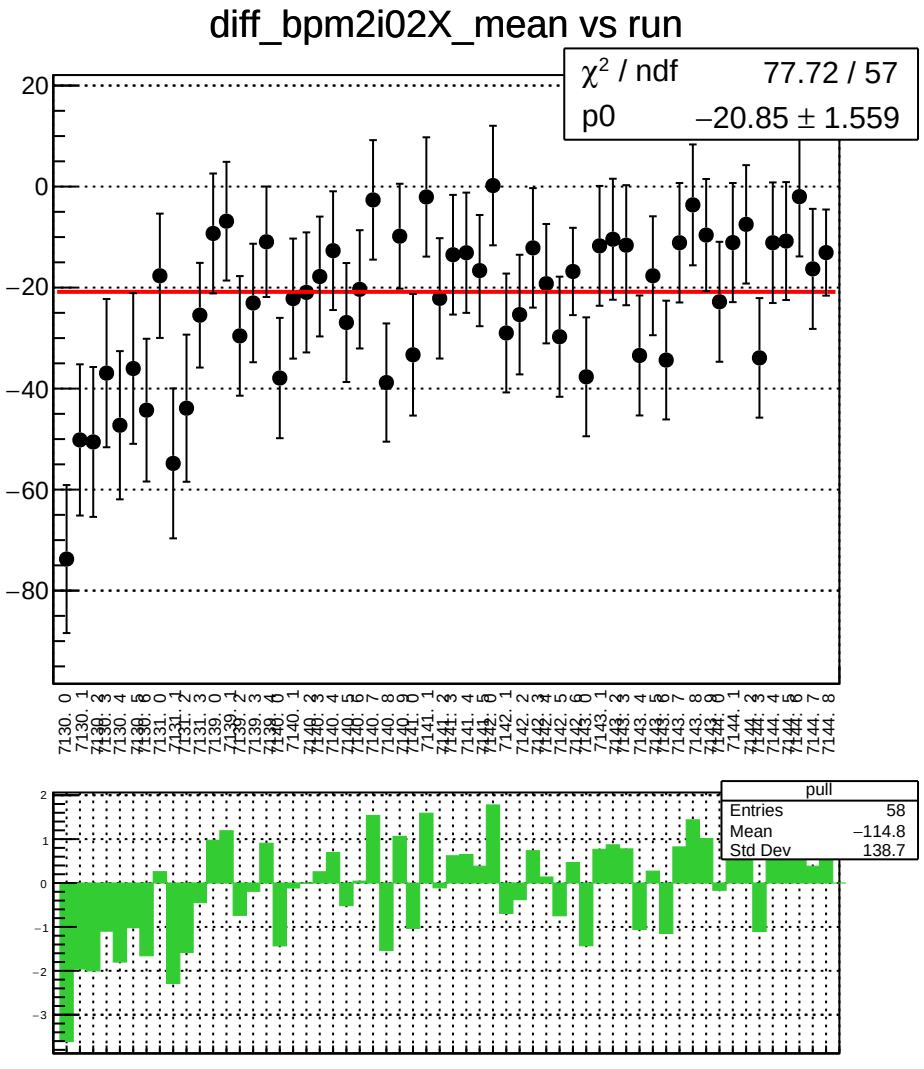

pull1D
Entries 58
Mean −0.02671
Std Dev 0.9151

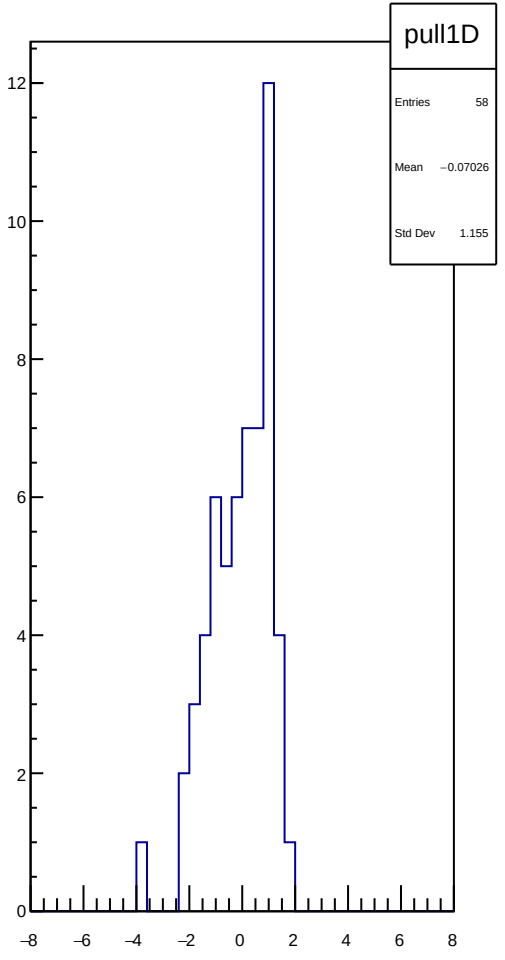

diff_bpm2i01X_rms vs run
χ² / ndf 8045 / 57
p0 1095 ± 1.045
1400
1350
1300
1250
1200
1150
1100
1050

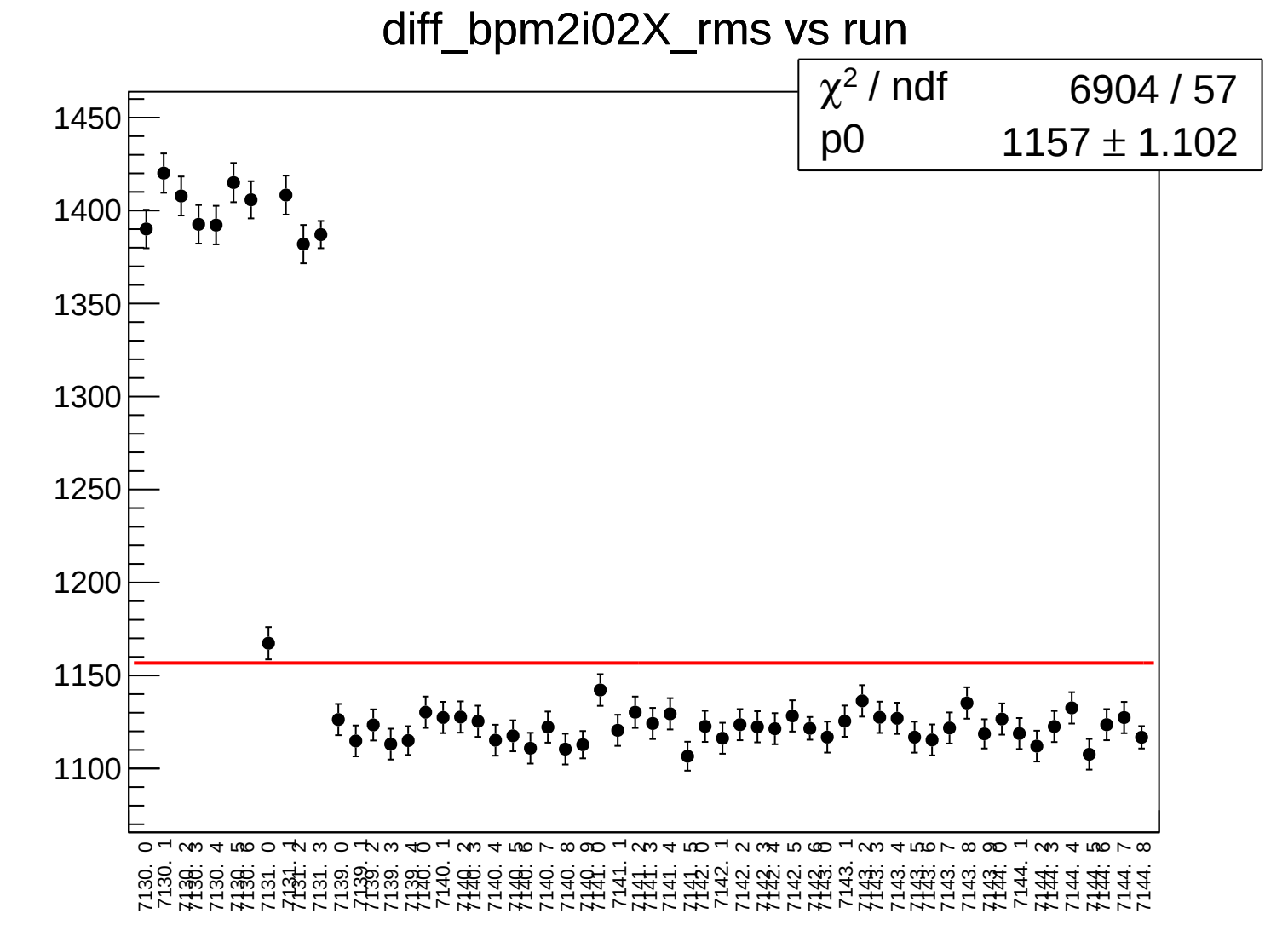

diff_bpm2i01Y_mean vs run
χ² / ndf 65.68 / 57
p0 −3.499 ± 1.569
pull
Entries 58
Mean 95.14
Std Dev 64.5

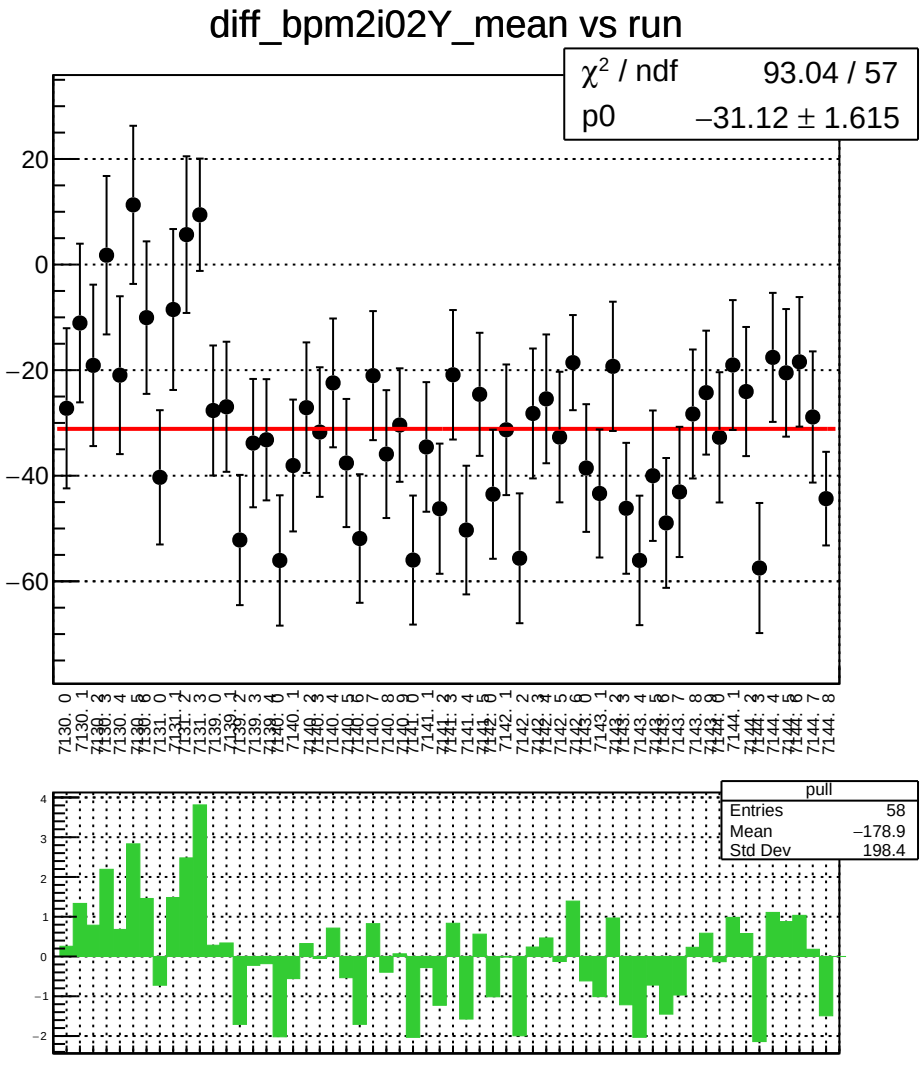

pull1D
Entries 58
Mean −0.01773
Std Dev 1.064

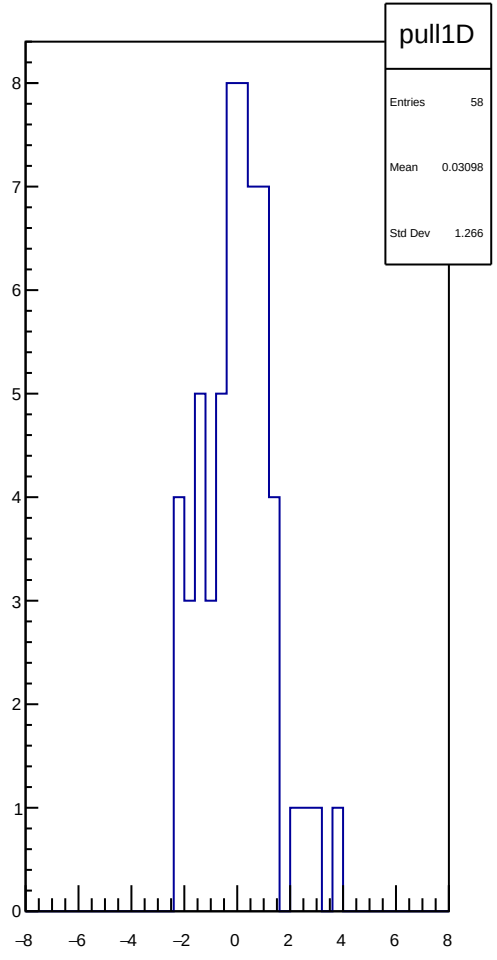

diff_bpm2i01Y_rms vs run
χ² / ndf 6295 / 57
p0 1164 ± 1.109
1400
1350
1300
1250
1200
1150
1100

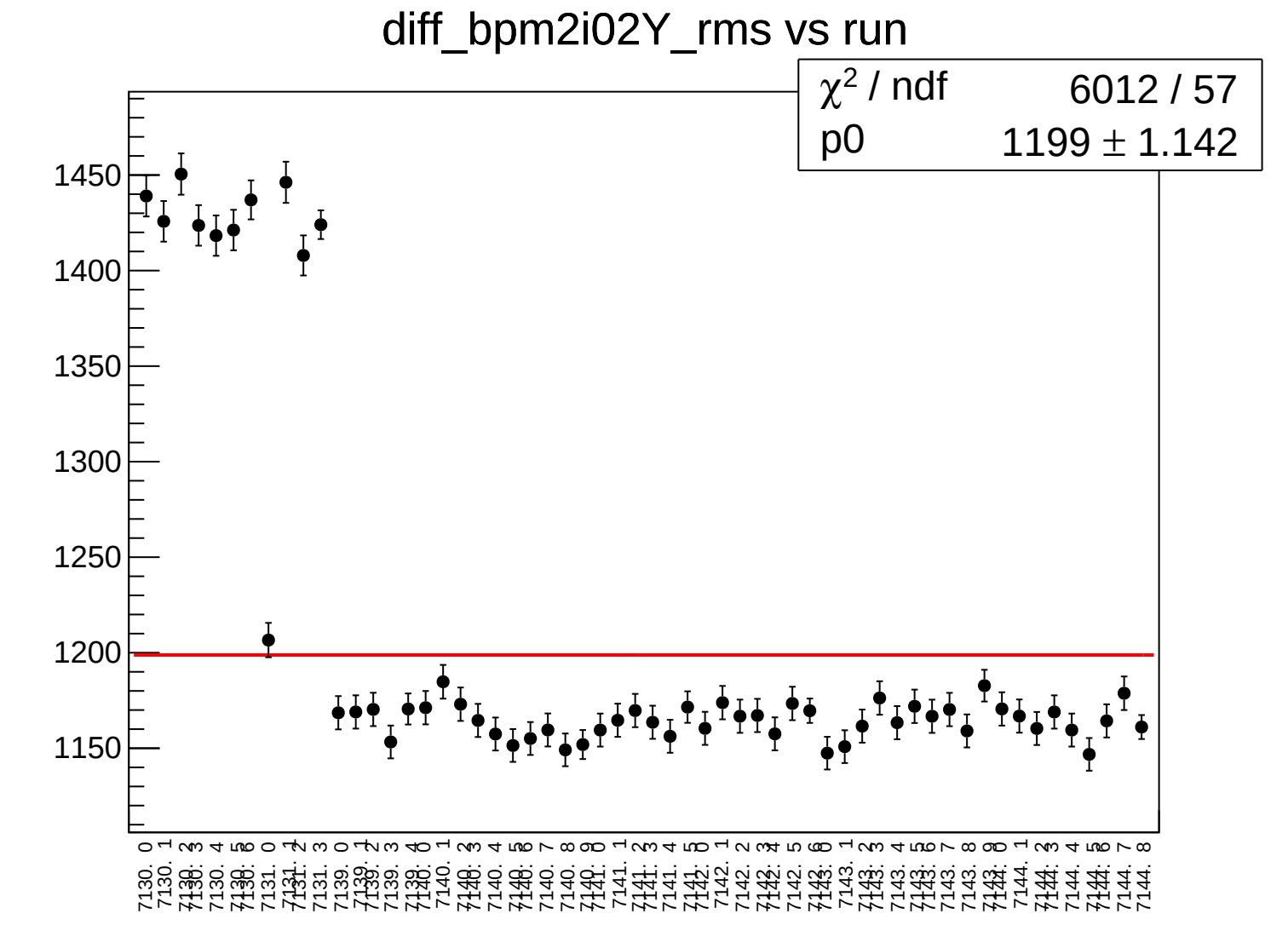

diff_bpm2i02X_mean vs run
χ² / ndf 77.72 / 57
p0 −20.85 ± 1.559
pull
Entries 58
Mean −114.8
Std Dev 138.7

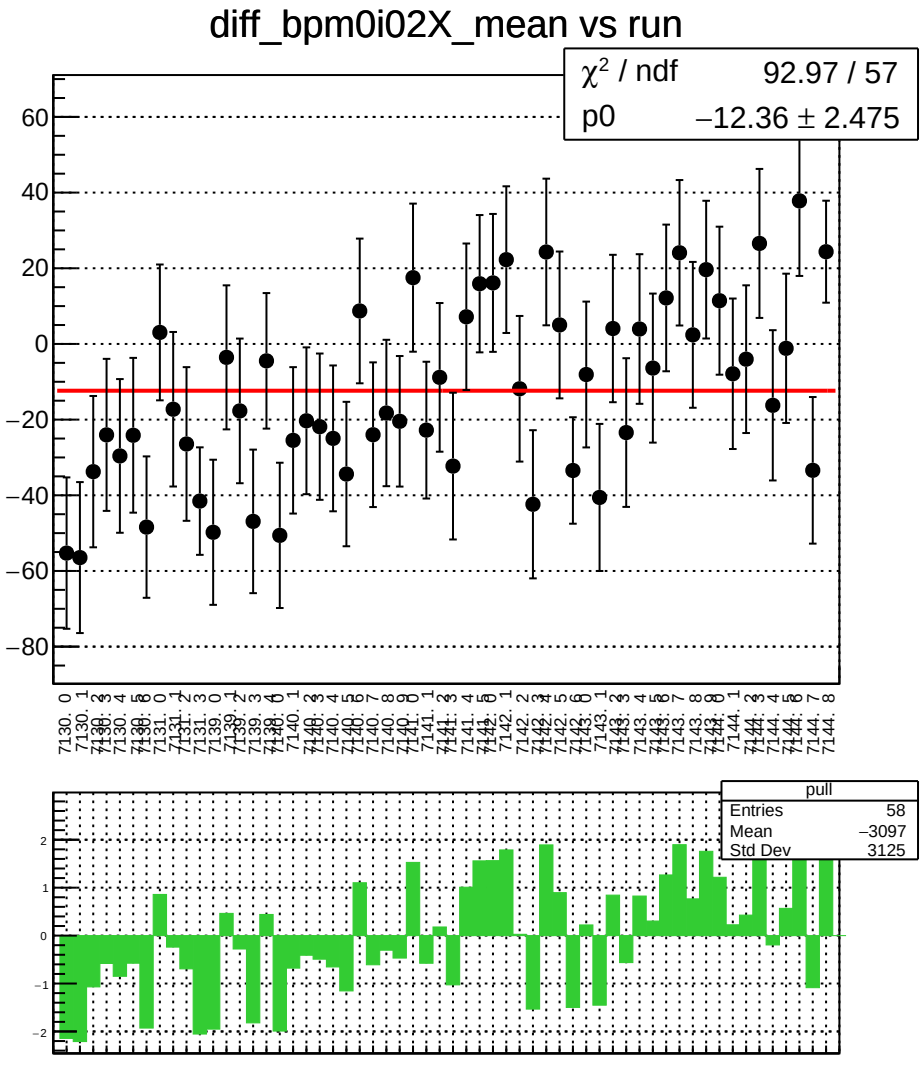

pull1D
Entries 58
Mean −0.07026
Std Dev 1.155

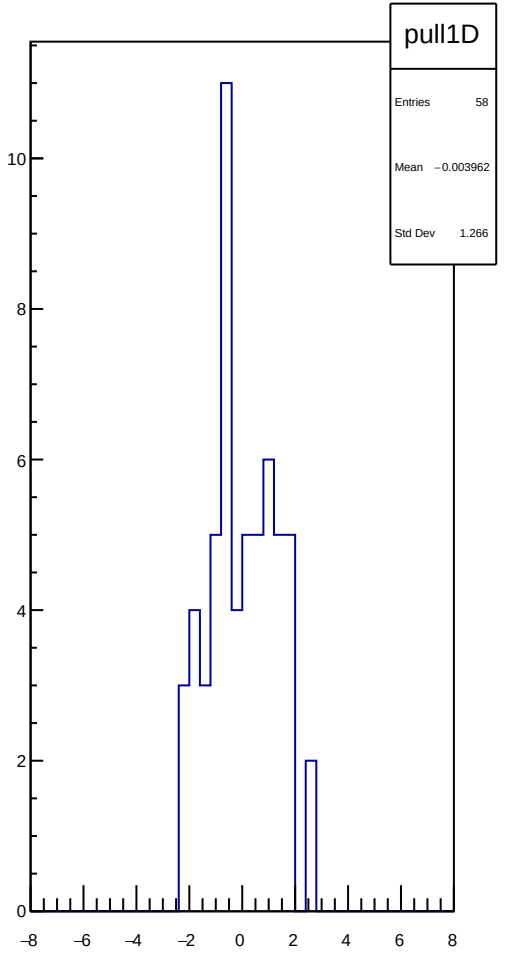

diff_bpm2i02X_rms vs run
χ² / ndf 6904 / 57
p0 1157 ± 1.102
1450
1400
1350
1300
1250
1200
1150
1100

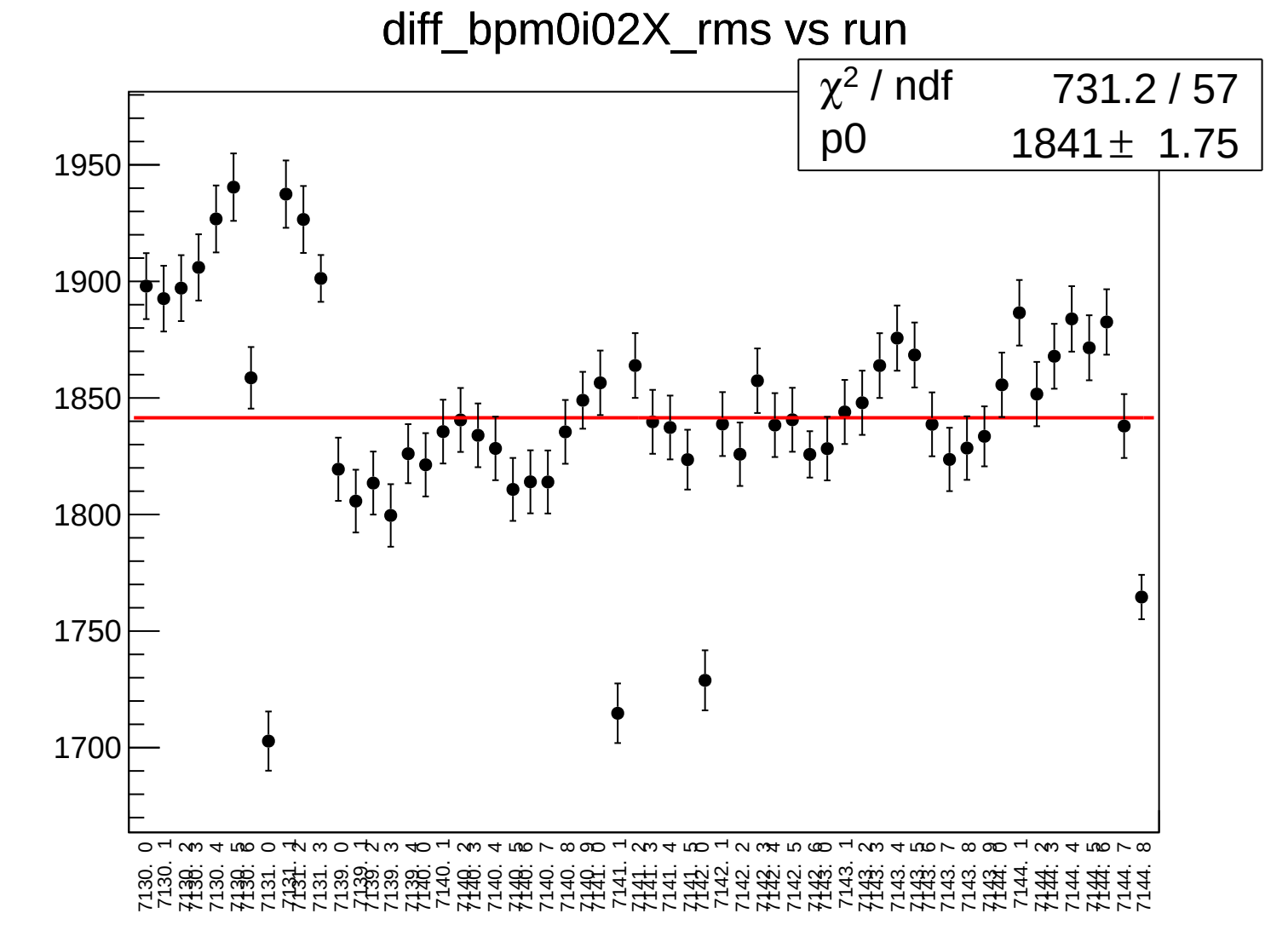

diff_bpm2i02Y_mean vs run
χ² / ndf 93.04 / 57
p0 −31.12 ± 1.615
pull
Entries 58
Mean −178.9
Std Dev 198.4

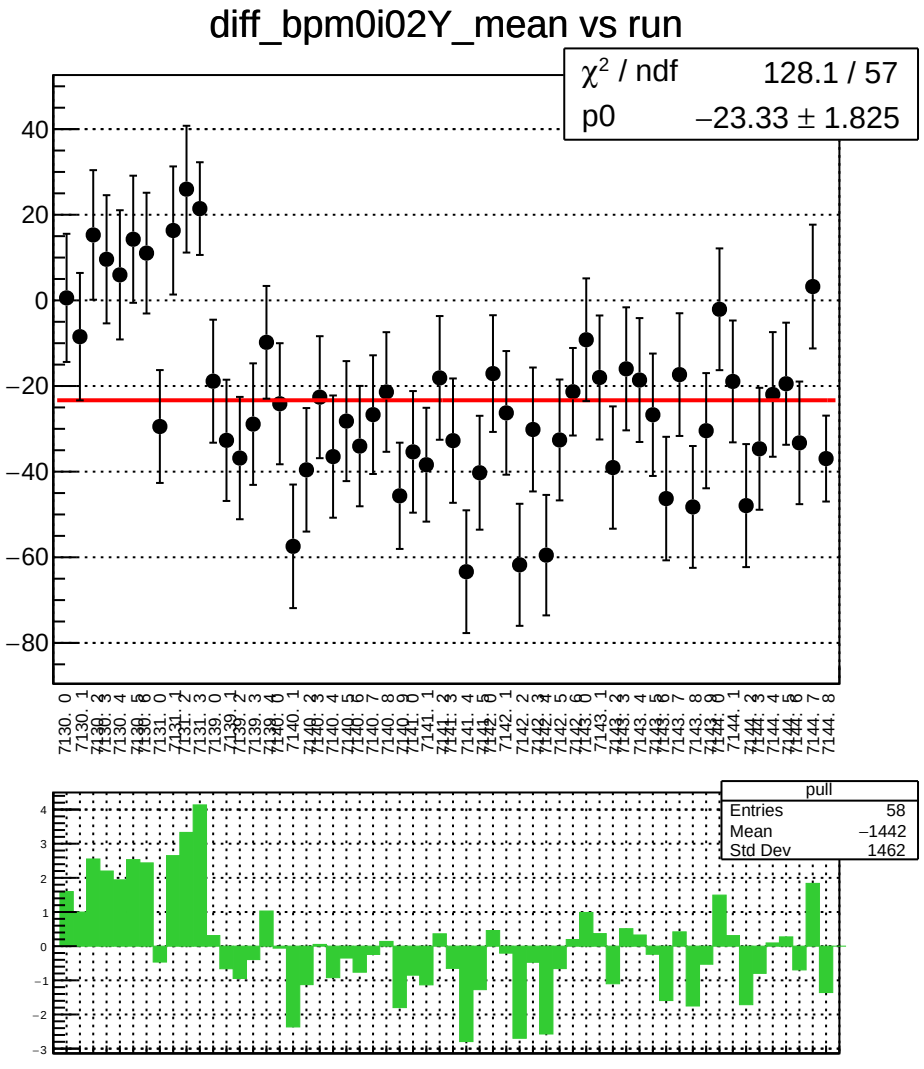

pull1D
Entries 58
Mean 0.03098
Std Dev 1.266

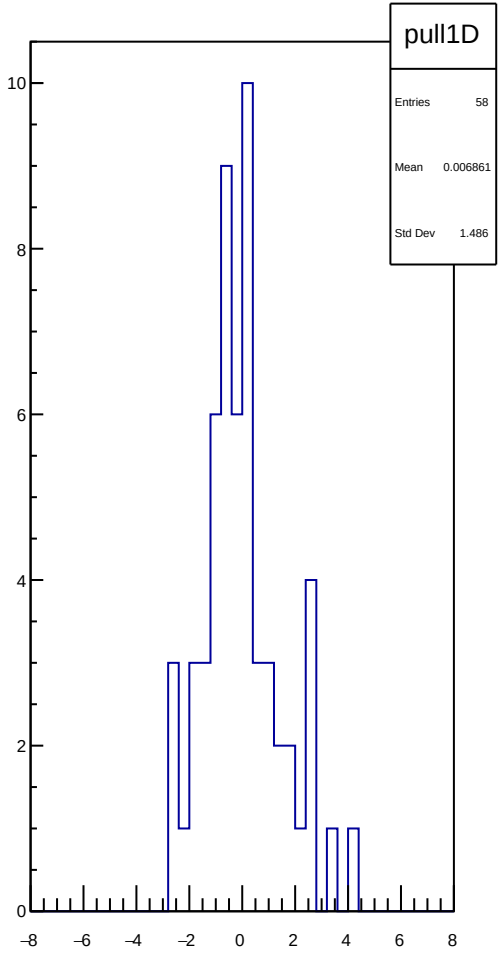

diff_bpm2i02Y_rms vs run
χ² / ndf 6012 / 57
p0 1199 ± 1.142
1450
1400
1350
1300
1250
1200
1150

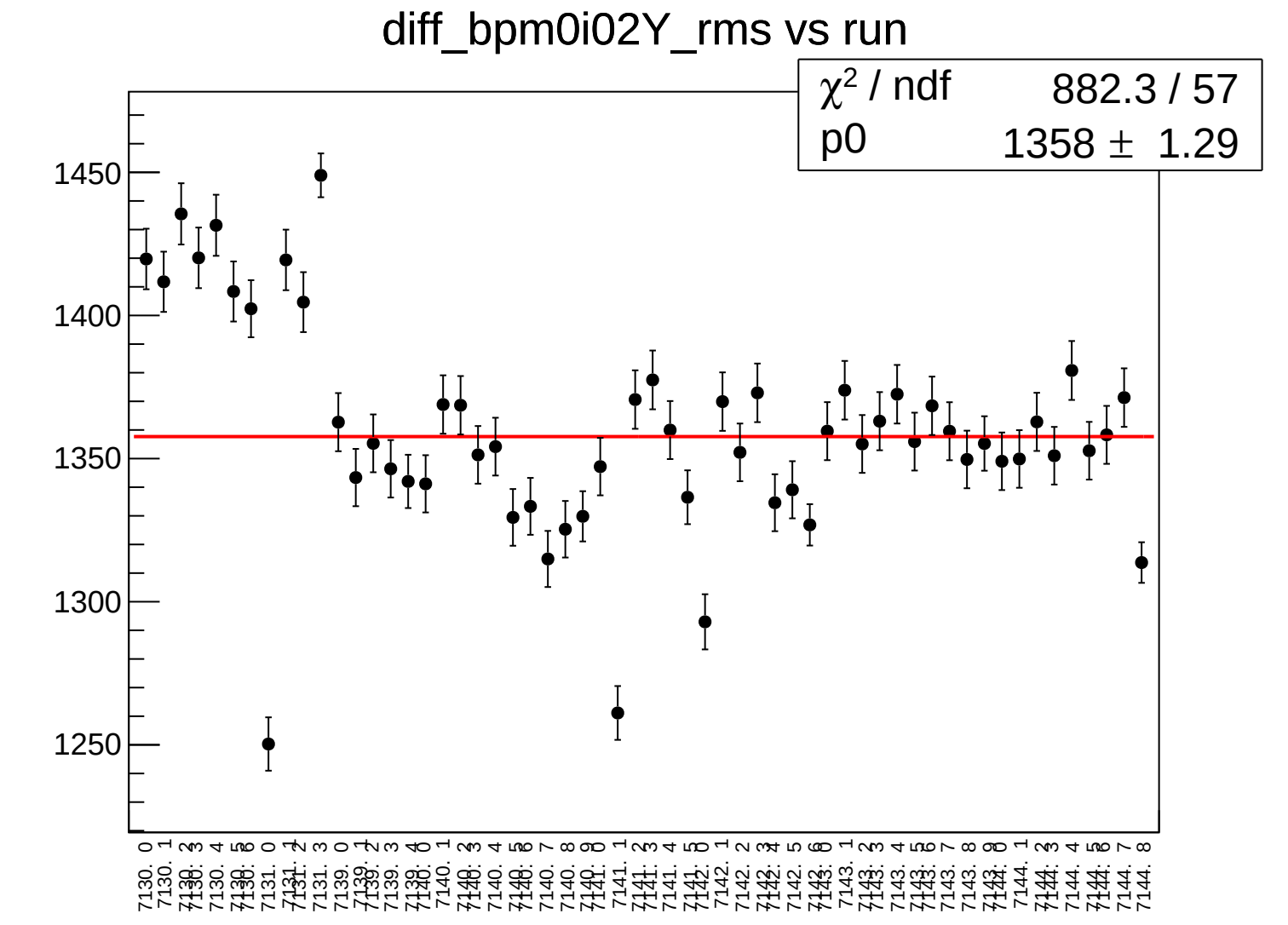

diff_bpm0i02X_mean vs run
χ² / ndf 92.97 / 57
p0 −12.36 ± 2.475
pull
Entries 58
Mean −3097
Std Dev 3125

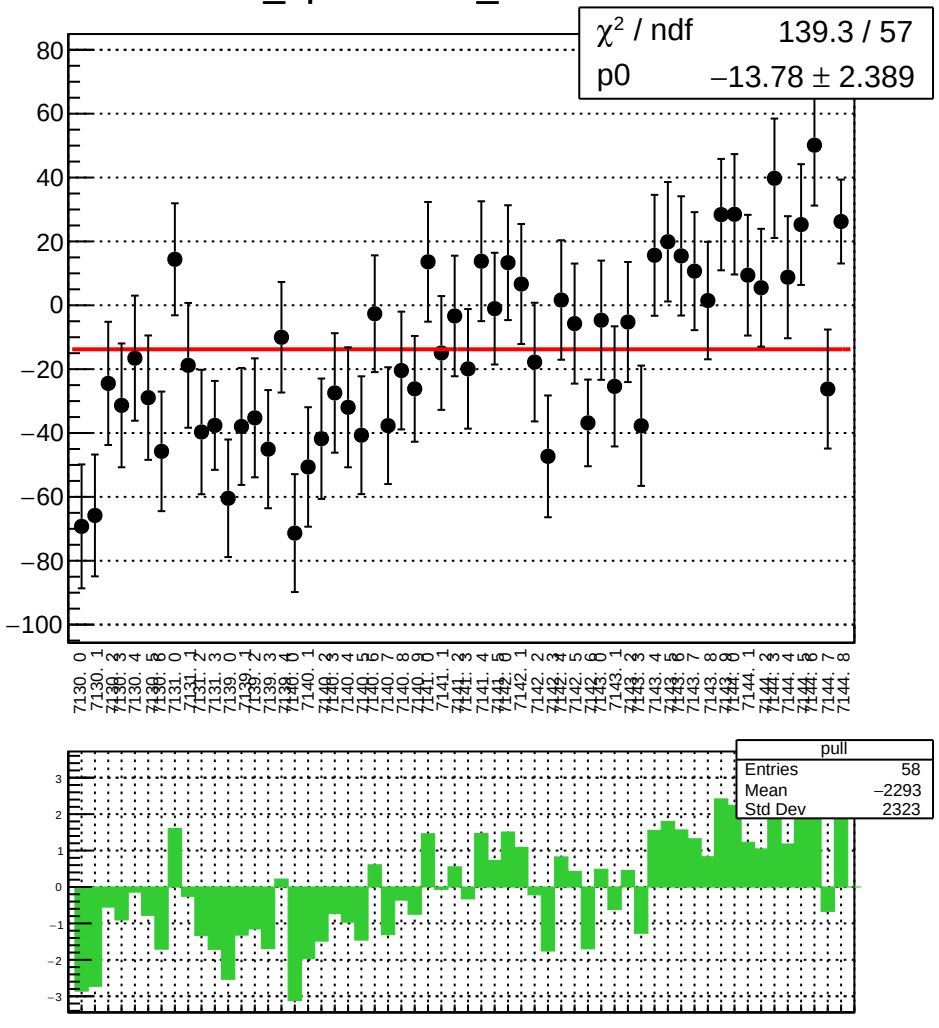

pull1D
Entries 58
Mean −0.003962
Std Dev 1.266

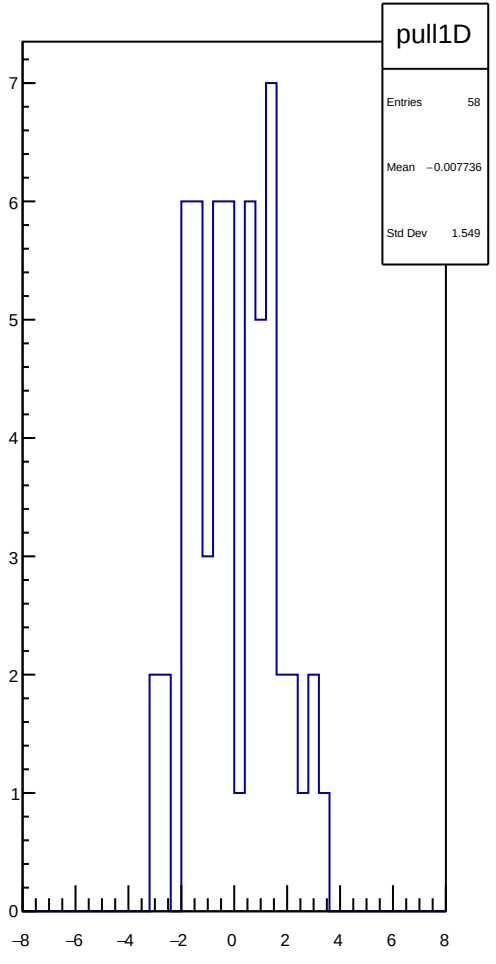

diff_bpm0i02X_rms vs run
χ² / ndf 731.2 / 57
p0 1841 ± 1.75
1950
1900
1850
1800
1750
1700

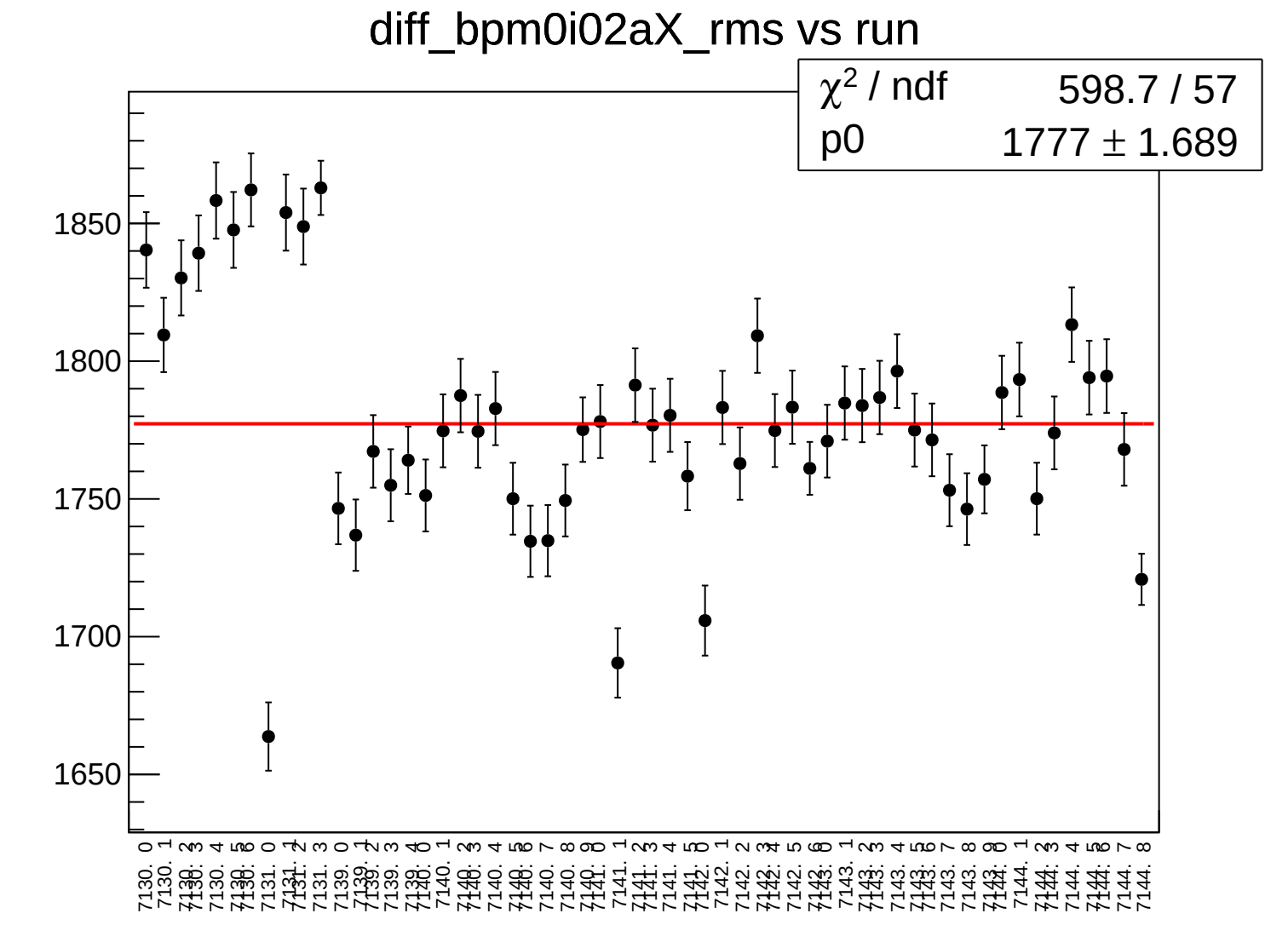

diff_bpm0i02Y_mean vs run
χ² / ndf 128.1 / 57
p0 −23.33 ± 1.825
pull
Entries 58
Mean −1442
Std Dev 1462

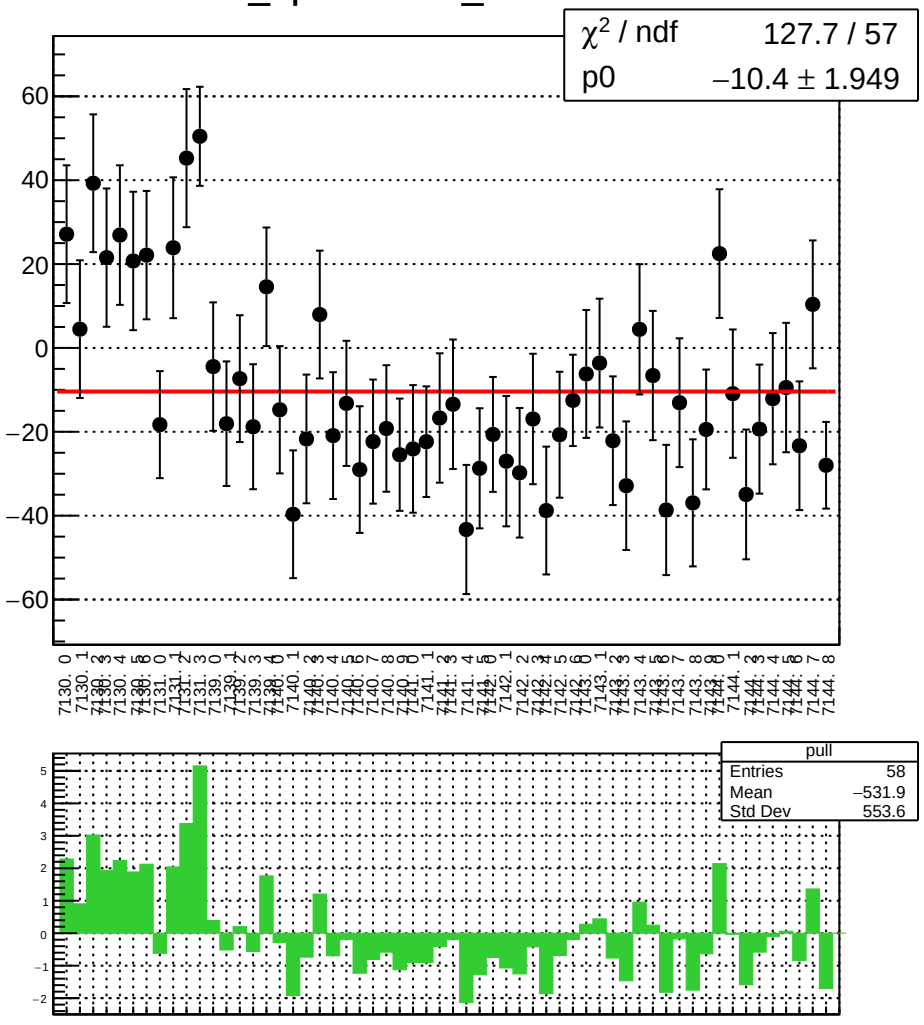

pull1D
Entries 58
Mean 0.006861
Std Dev 1.486

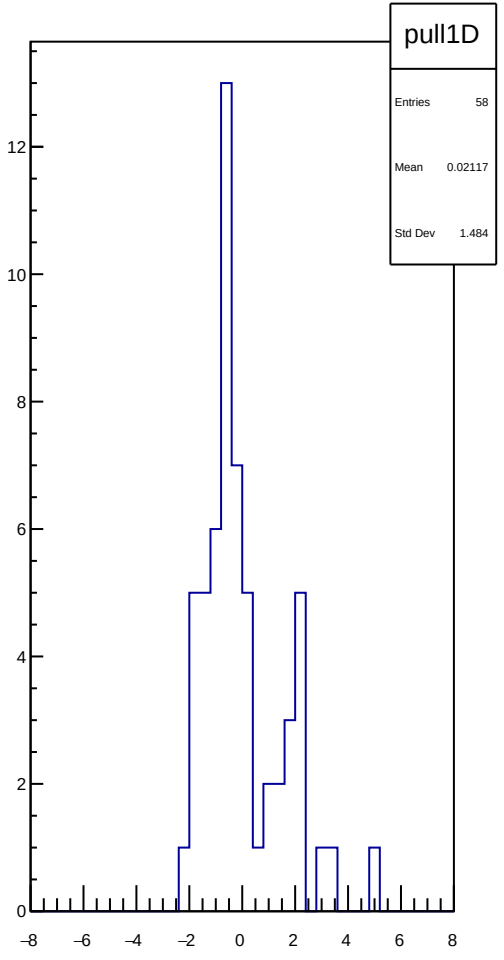

diff_bpm0i02Y_rms vs run
χ² / ndf 882.3 / 57
p0 1358 ± 1.29
1450
1400
1350
1300
1250

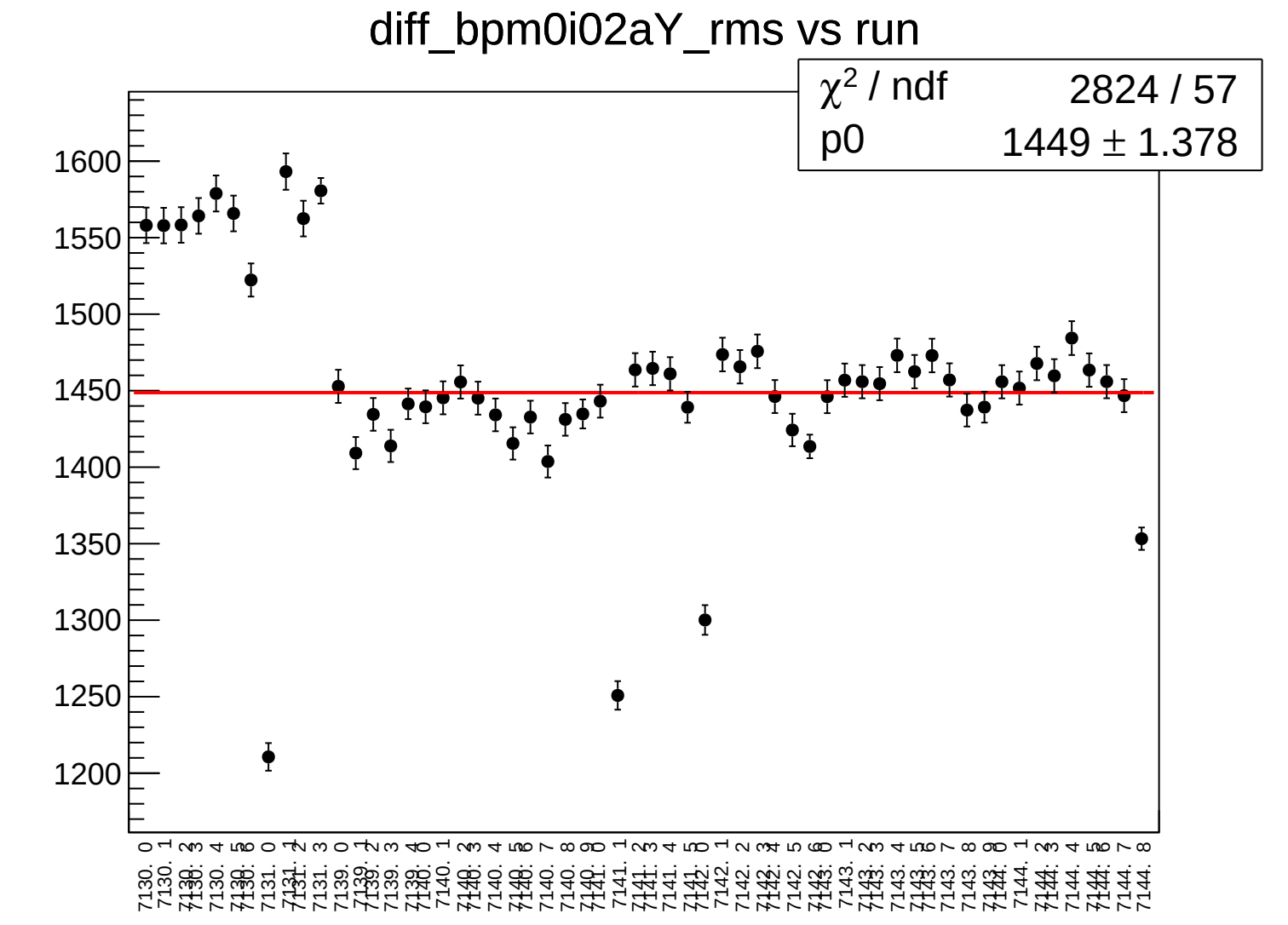

diff_bpm0i02aX_mean vs run
χ² / ndf 139.3 / 57
p0 −13.78 ± 2.389
pull
Entries 58
Mean −2293
Std Dev 2323

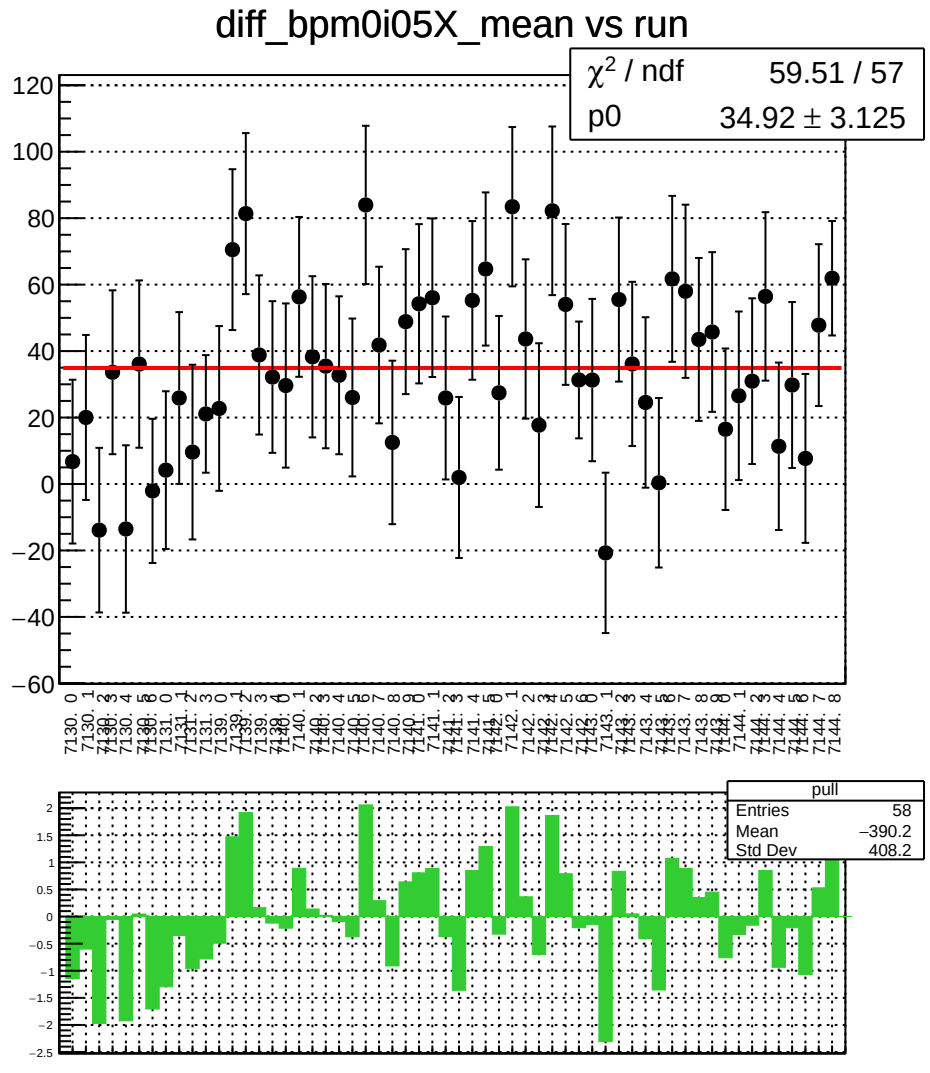

pull1D
Entries 58
Mean −0.007736
Std Dev 1.549

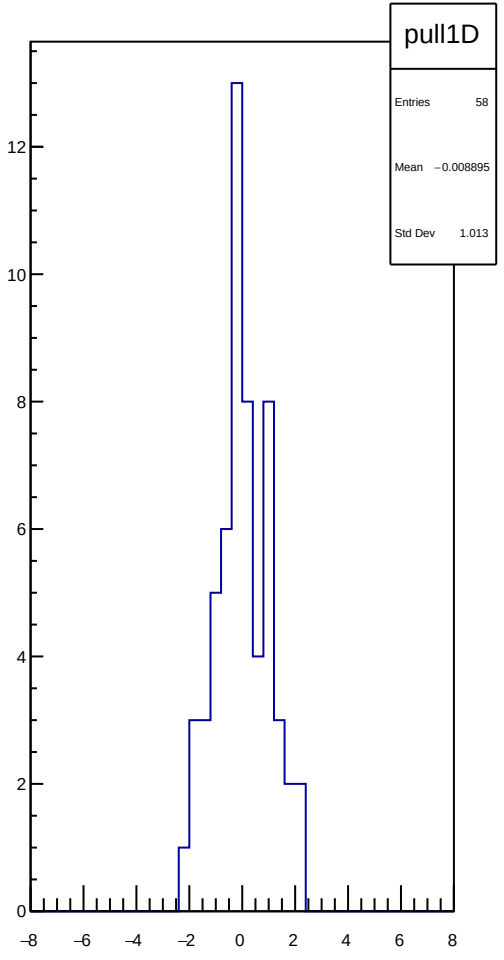

diff_bpm0i02aX_rms vs run
χ² / ndf 598.7 / 57
p0 1777 ± 1.689
1850
1800
1750
1700
1650

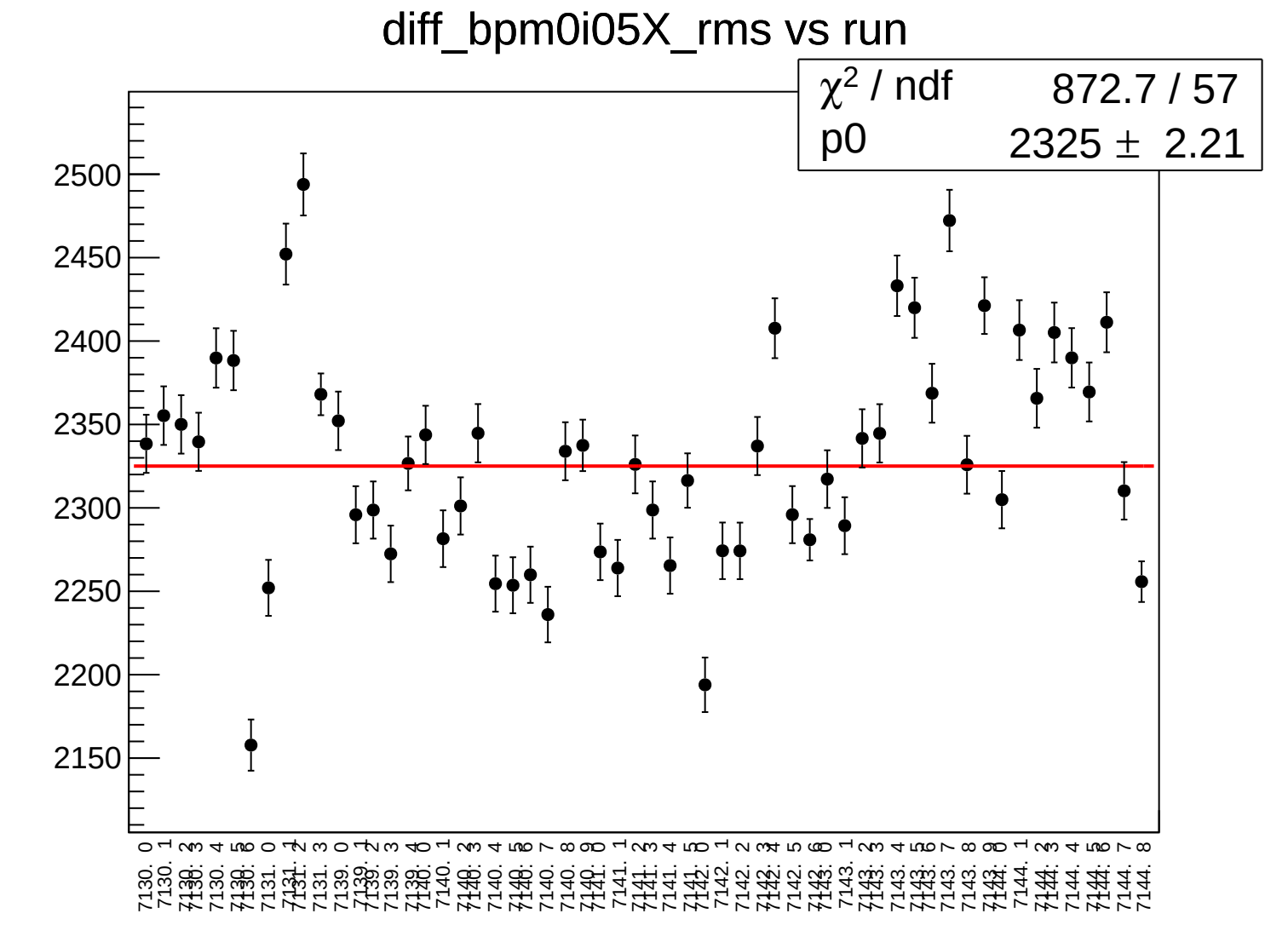

diff_bpm0i02aY_mean vs run
χ² / ndf 127.7 / 57
p0 −10.4 ± 1.949
pull
Entries 58
Mean −531.9
Std Dev 553.6

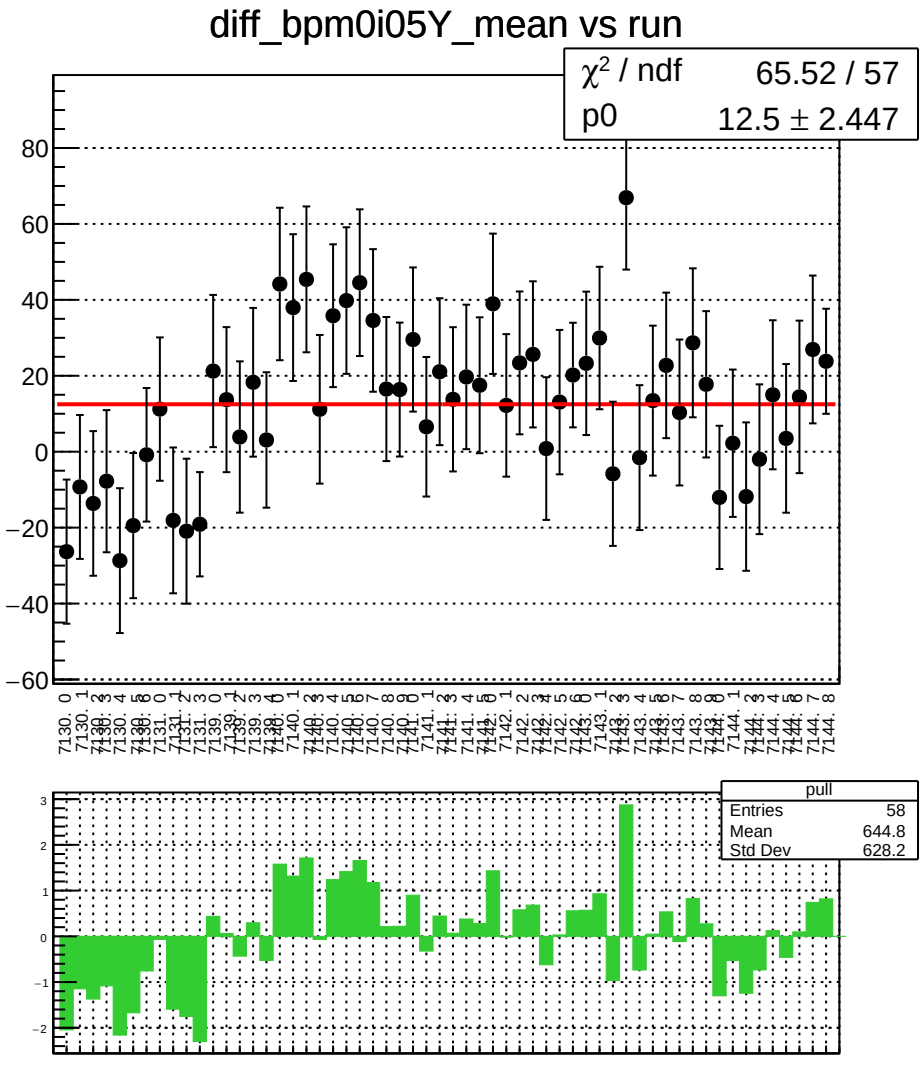

pull1D
Entries 58
Mean 0.02117
Std Dev 1.484

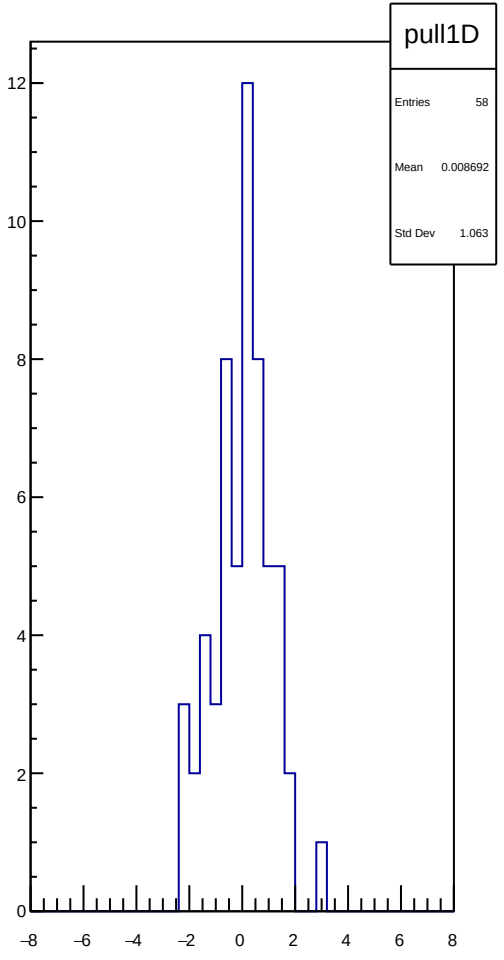

diff_bpm0i02aY_rms vs run
χ² / ndf 2824 / 57
p0 1449 ± 1.378
1600
1550
1500
1450
1400
1350
1300
1250
1200

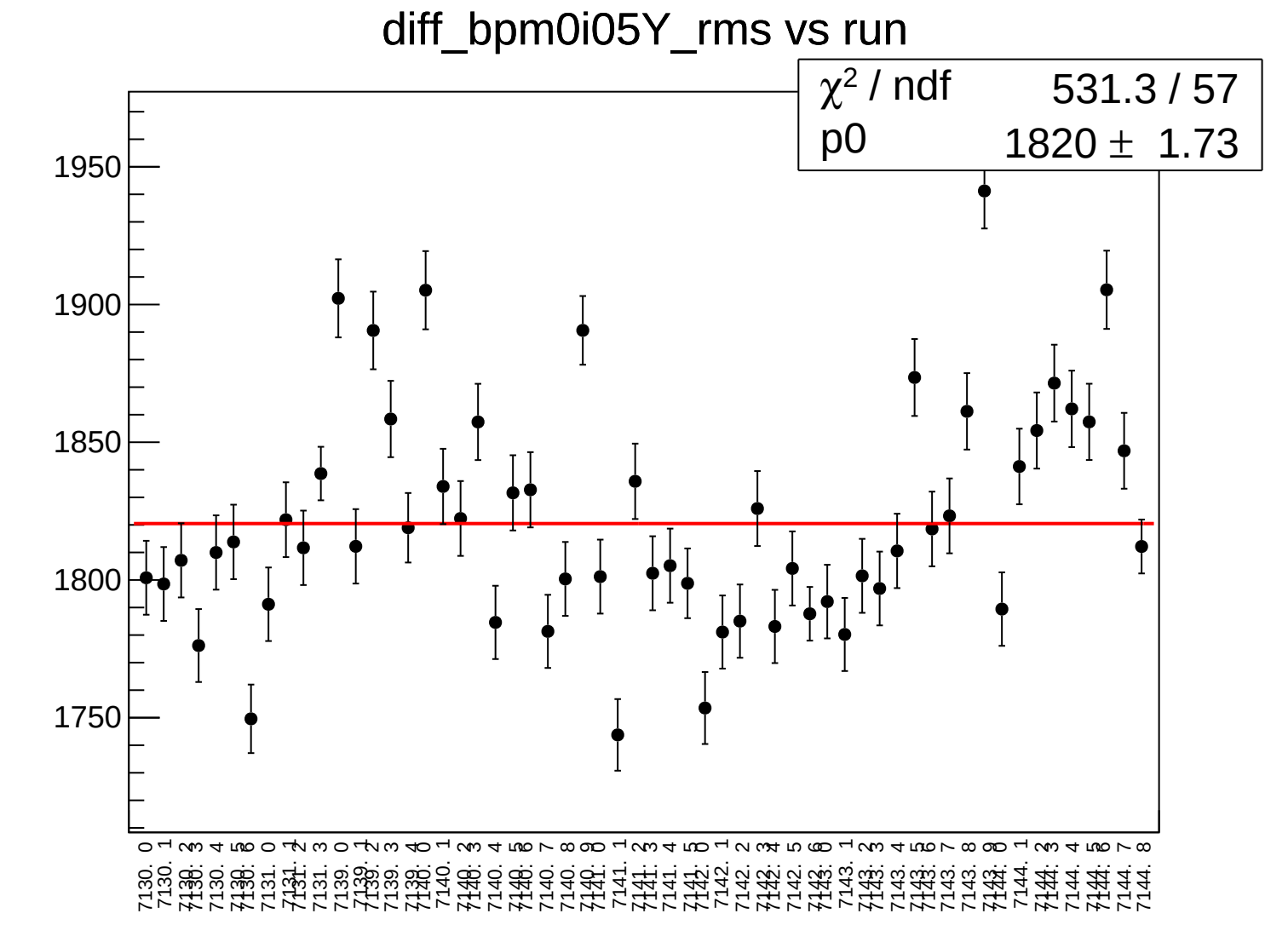

diff_bpm0i05X_mean vs run
χ² / ndf 59.51 / 57
p0 34.92 ± 3.125
pull
Entries 58
Mean −390.2
Std Dev 408.2

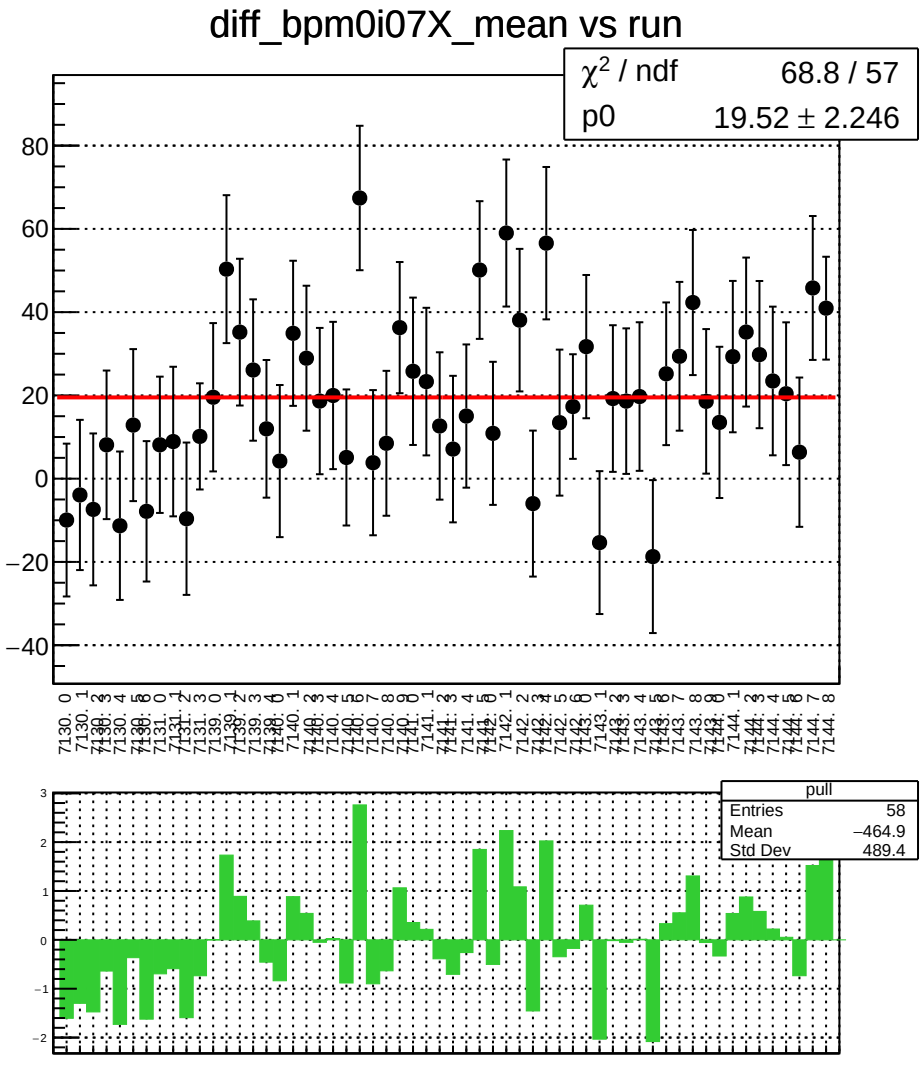

pull1D
Entries 58
Mean −0.008895
Std Dev 1.013

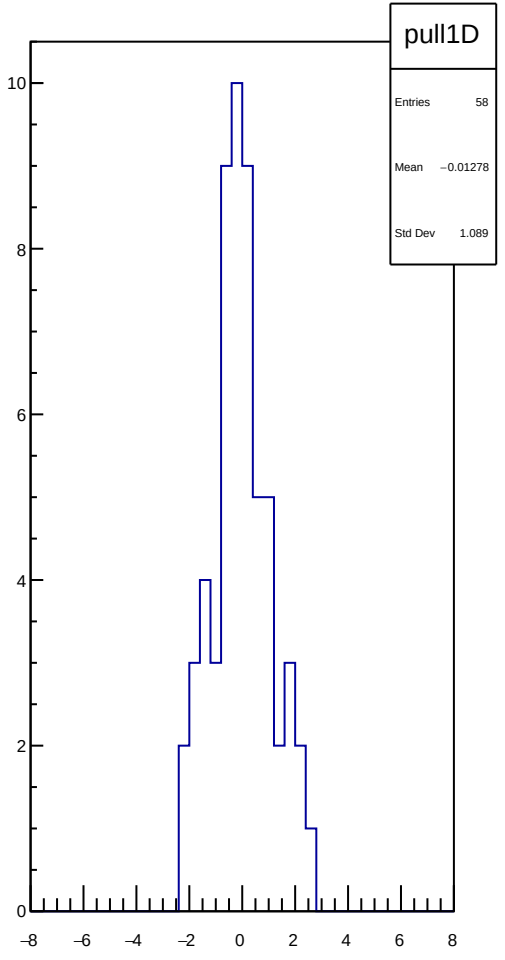

diff_bpm0i05X_rms vs run
χ^2 / ndf 872.7 / 57
p0 2325 ± 2.21
2500
2450
2400
2350
2300
2250
2200
2150
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

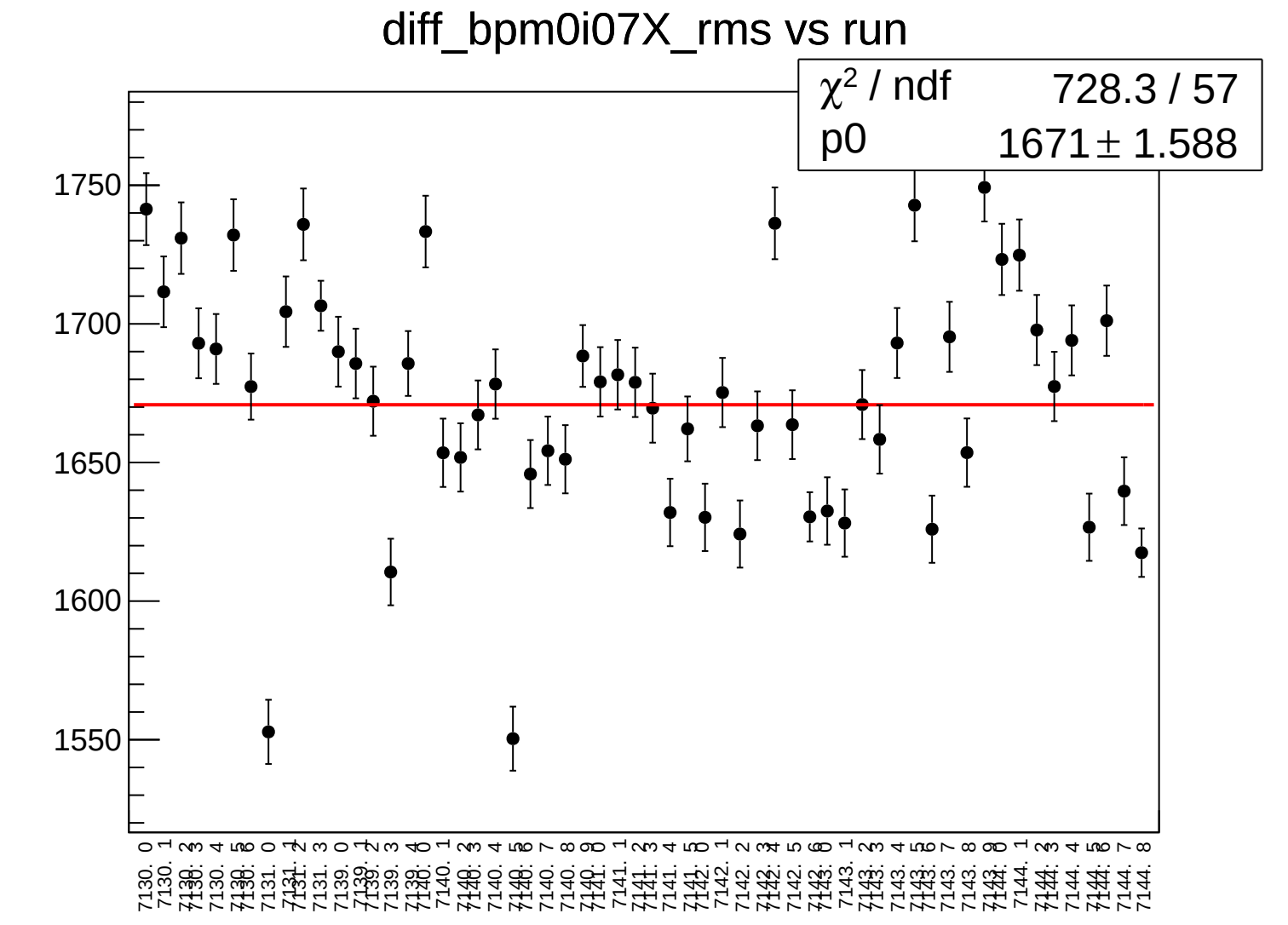

diff_bpm0i05Y_mean vs run
χ² / ndf 65.52 / 57
p0 12.5 ± 2.447
pull
Entries 58
Mean 644.8
Std Dev 628.2

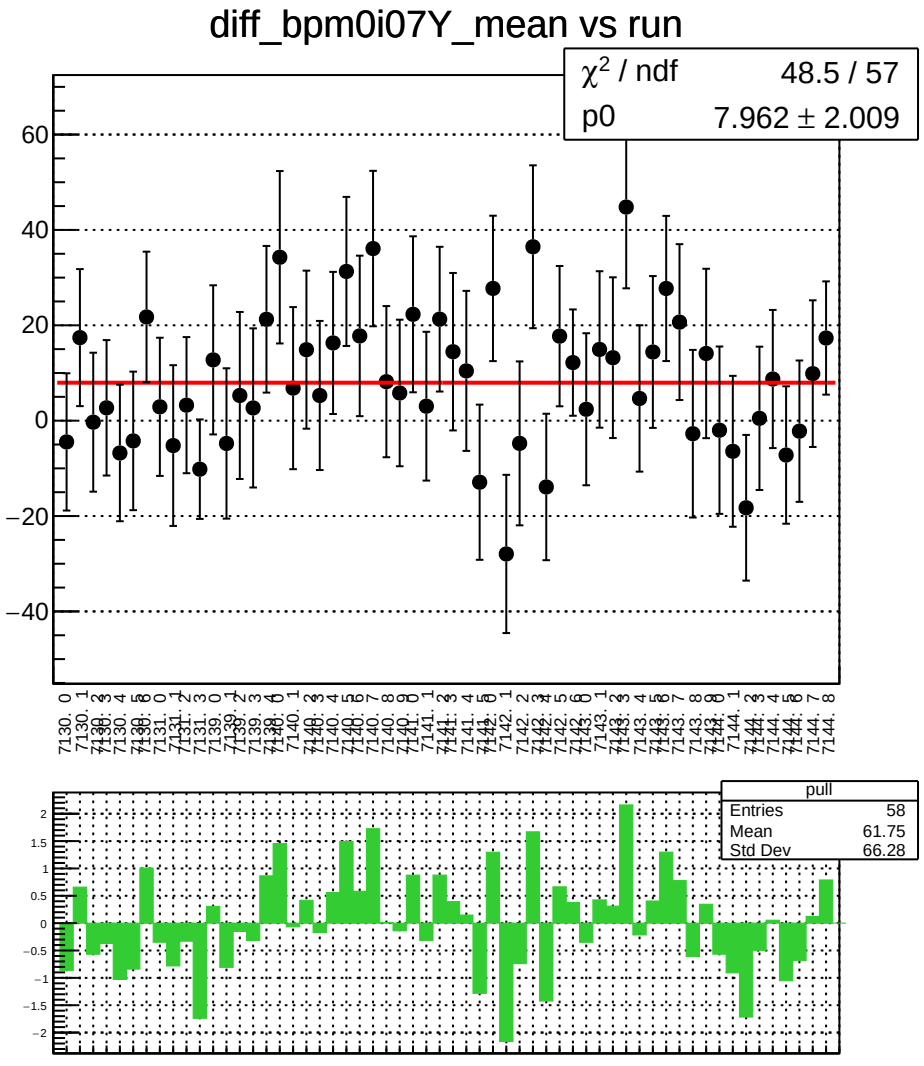

pull1D
Entries 58
Mean 0.008692
Std Dev 1.063

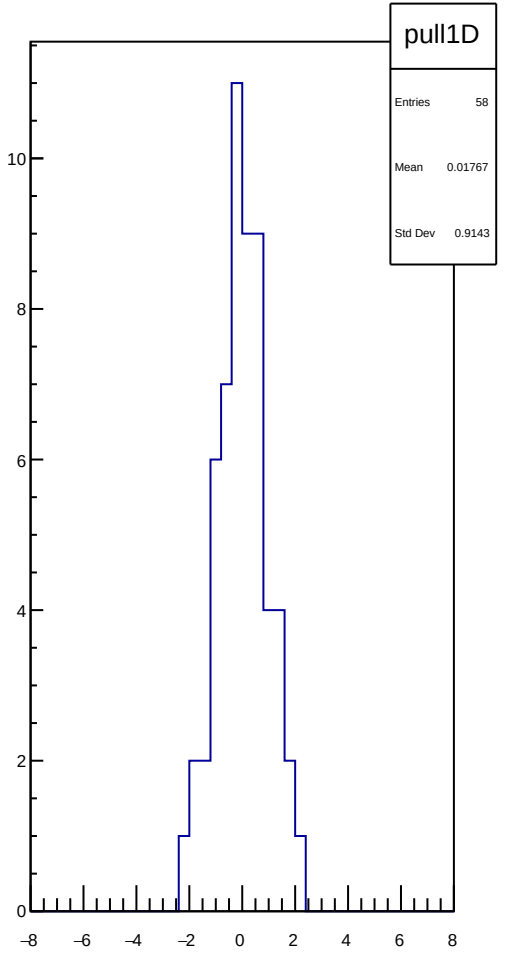

diff_bpm0i05Y_rms vs run
χ² / ndf 531.3 / 57
p0 1820 ± 1.73
1950
1900
1850
1800
1750

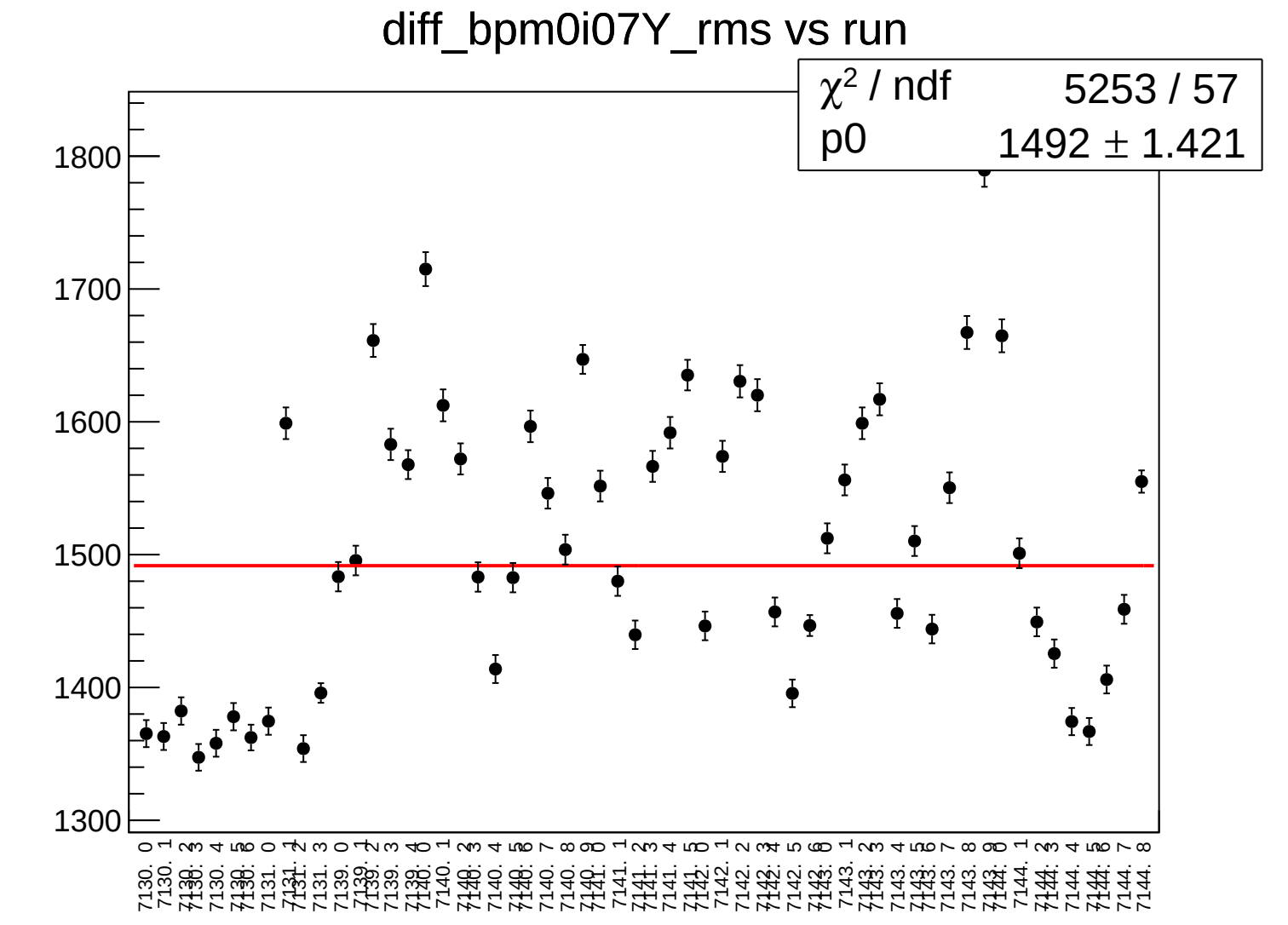

diff_bpm0i07X_mean vs run
χ² / ndf 68.8 / 57
p0 19.52 ± 2.246
pull
Entries 58
Mean −464.9
Std Dev 489.4

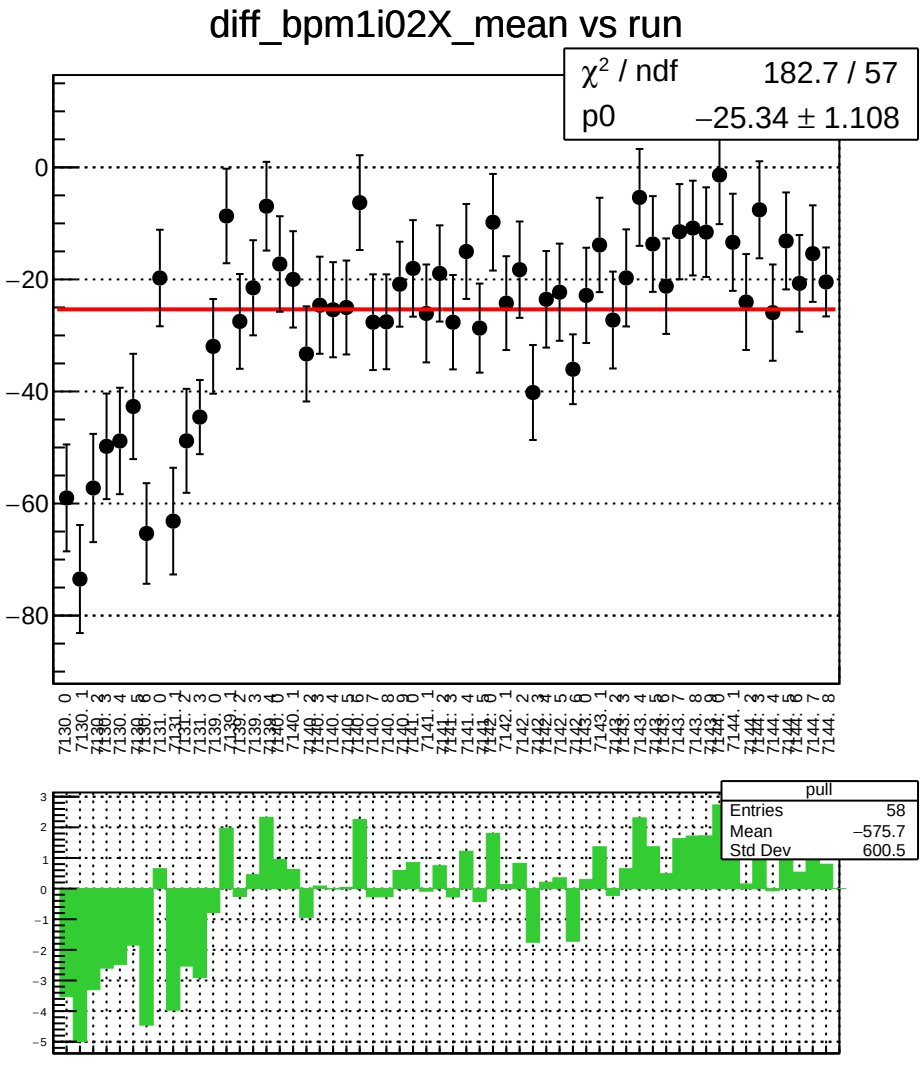

pull1D
Entries 58
Mean −0.01278
Std Dev 1.089

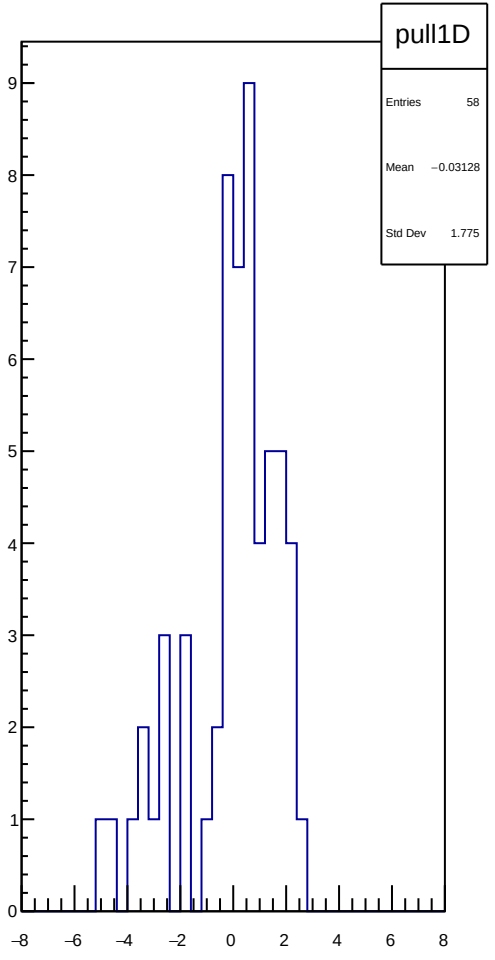

diff_bpm0i07X_rms vs run
χ² / ndf 728.3 / 57
p0 1671 ± 1.588
1750
1700
1650
1600
1550
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

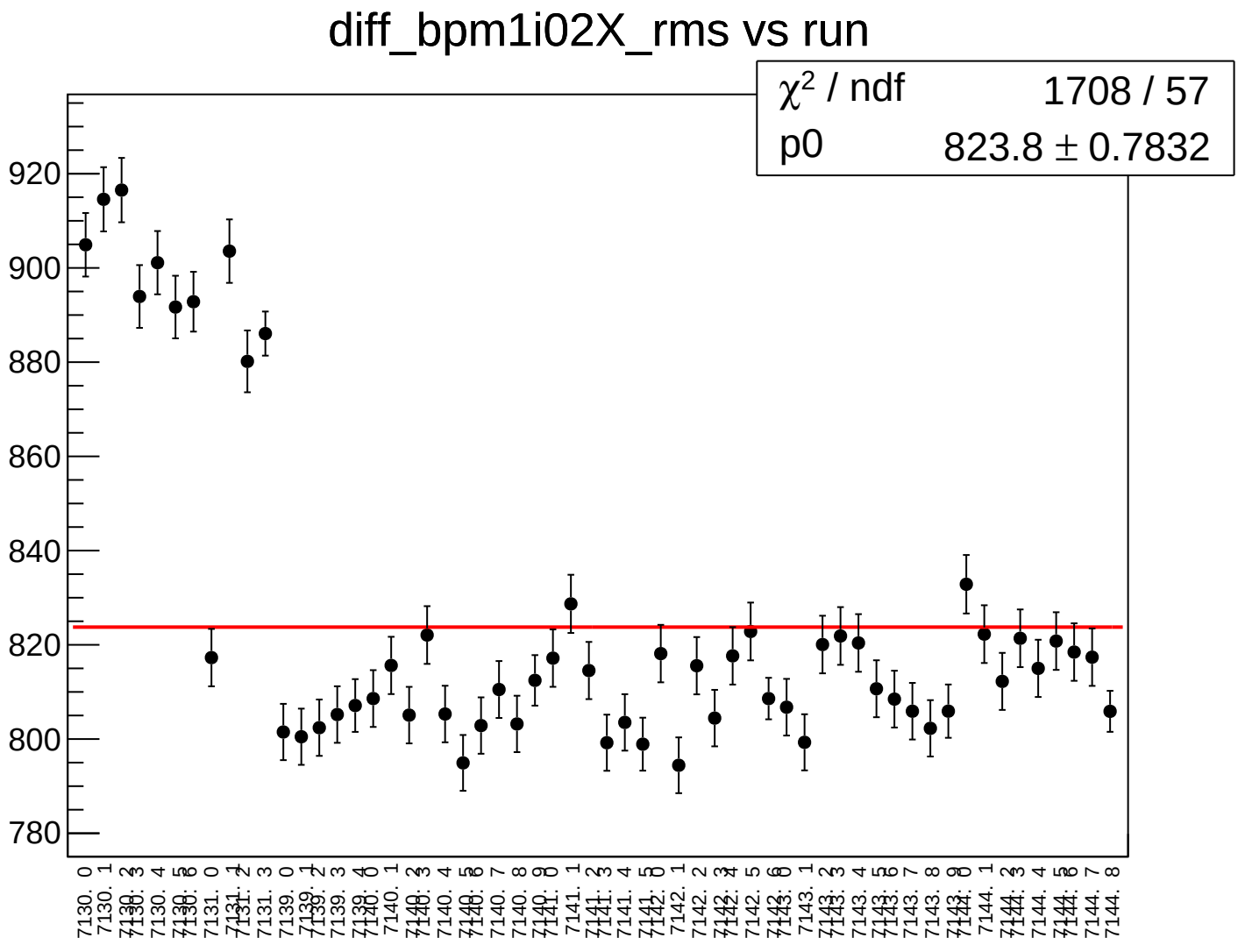

diff_bpm0i07Y_mean vs run
χ^2 / ndf 48.5 / 57
p0 7.962 ± 2.009
pull
Entries 58
Mean 61.75
Std Dev 66.28

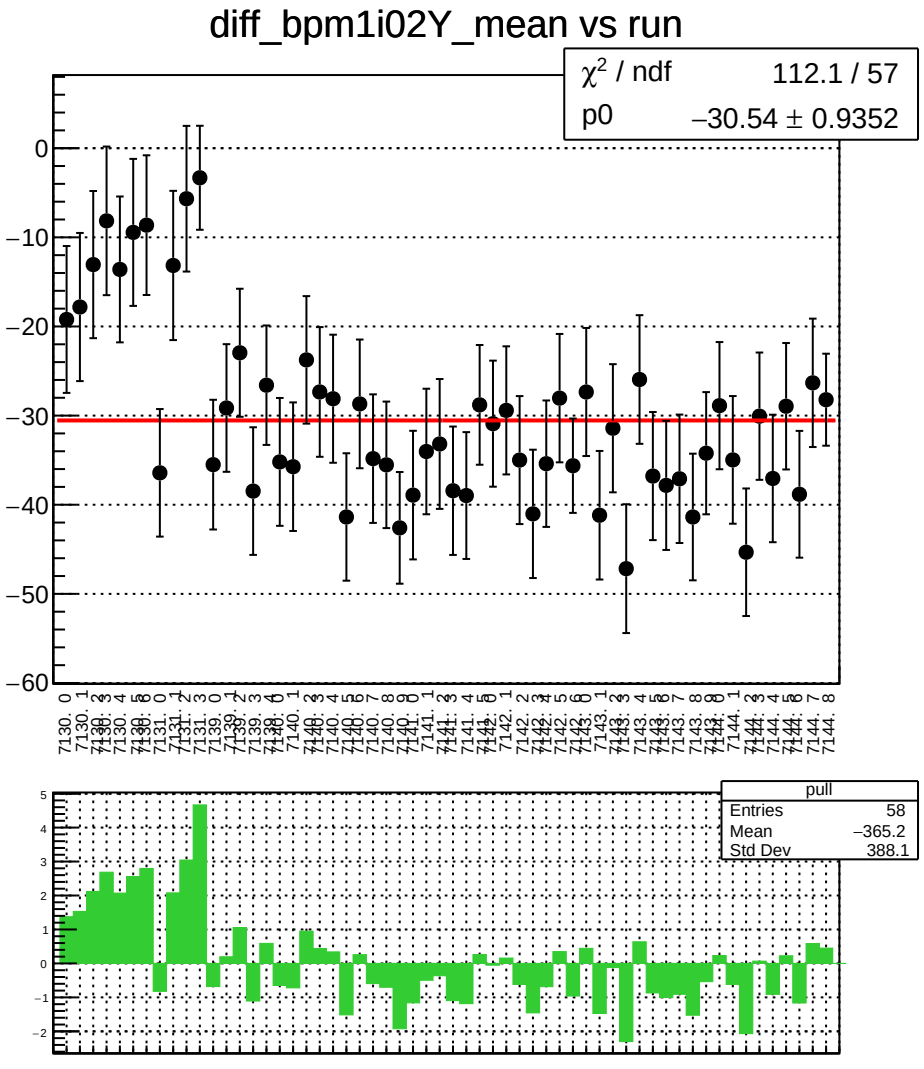

pull1D
Entries 58
Mean 0.01767
Std Dev 0.9143

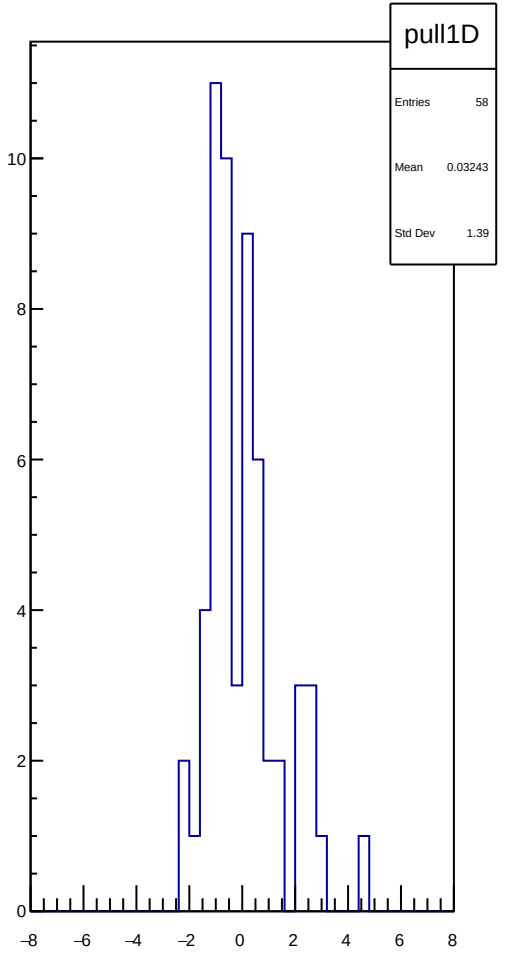

diff_bpm0i07Y_rms vs run
χ² / ndf 5253 / 57
p0 1492 ± 1.421
1800
1700
1600
1500
1400
1300
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

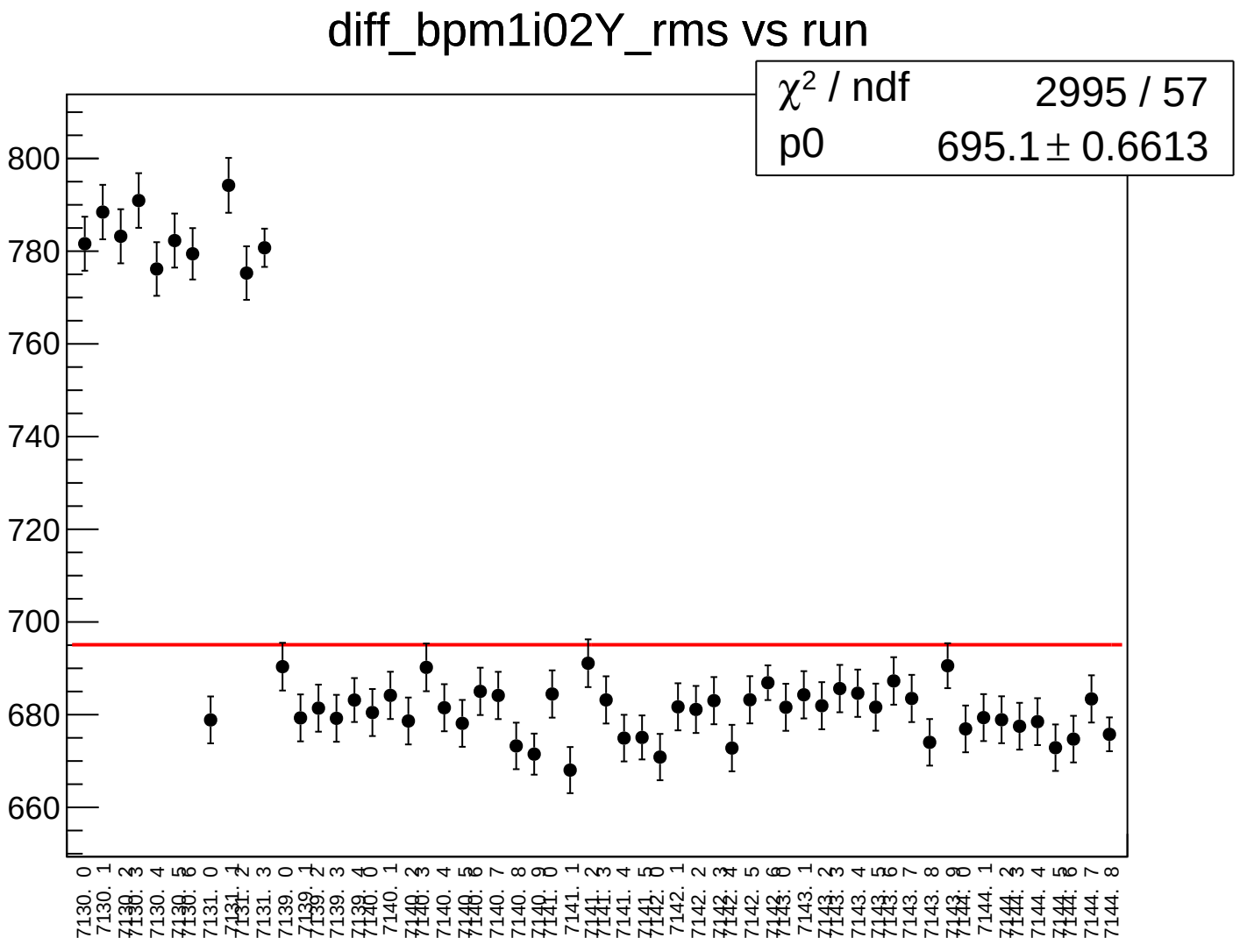

diff_bpm1i02X_mean vs run
χ² / ndf 182.7 / 57
p0 −25.34 ± 1.108
pull
Entries 58
Mean −575.7
Std Dev 600.5

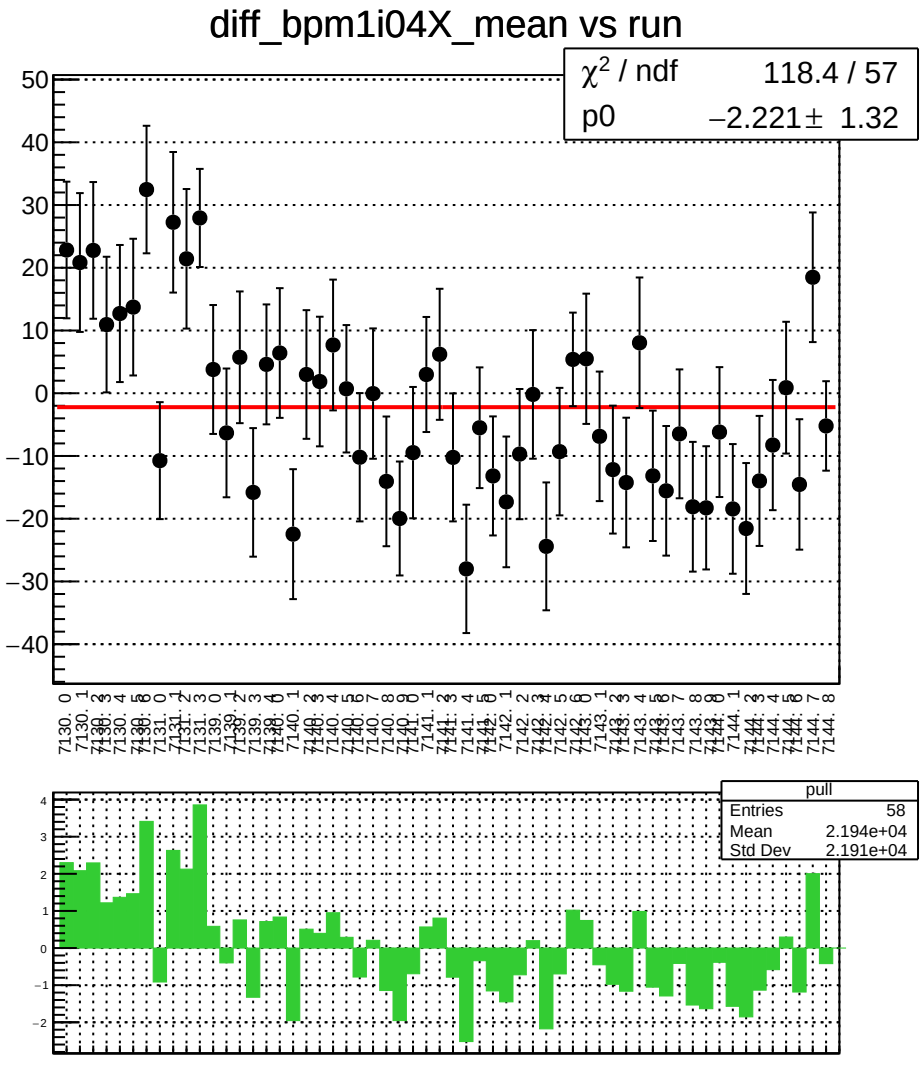

pull1D
Entries 58
Mean −0.03128
Std Dev 1.775

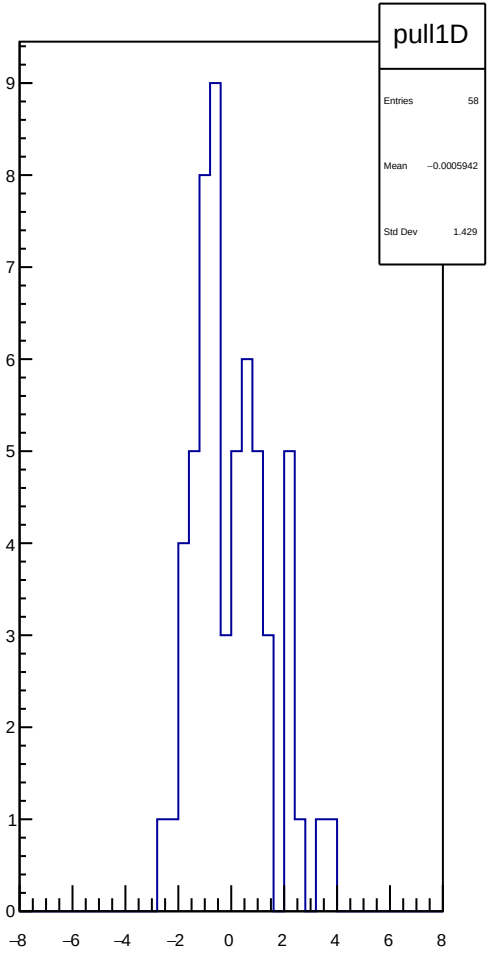

diff_bpm1i02X_rms vs run
χ² / ndf 1708 / 57
p0 823.8 ± 0.7832
920
900
880
860
840
820
800
780

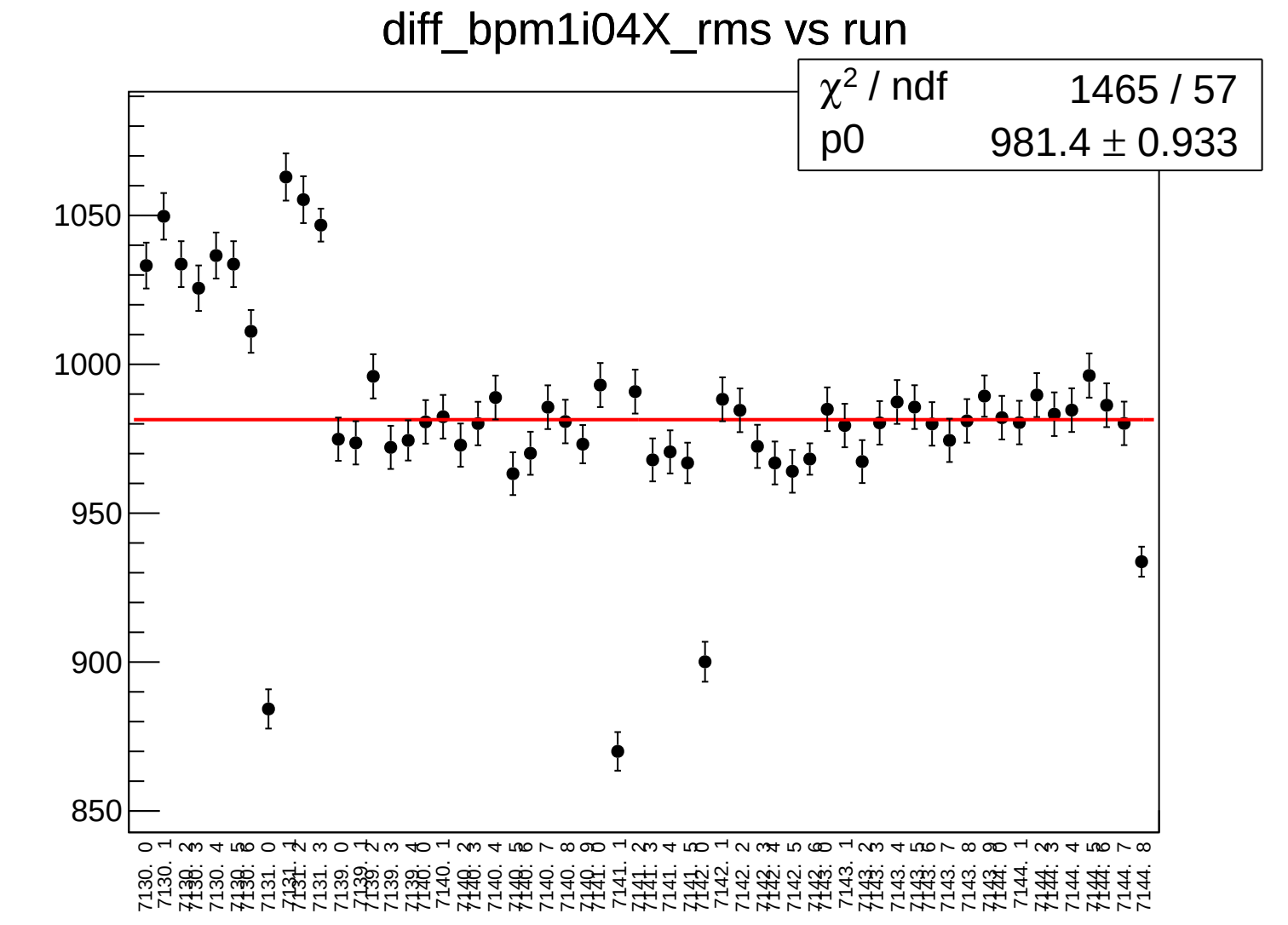

diff_bpm1i02Y_mean vs run
χ² / ndf 112.1 / 57
p0 −30.54 ± 0.9352
pull
Entries 58
Mean −365.2
Std Dev 388.1

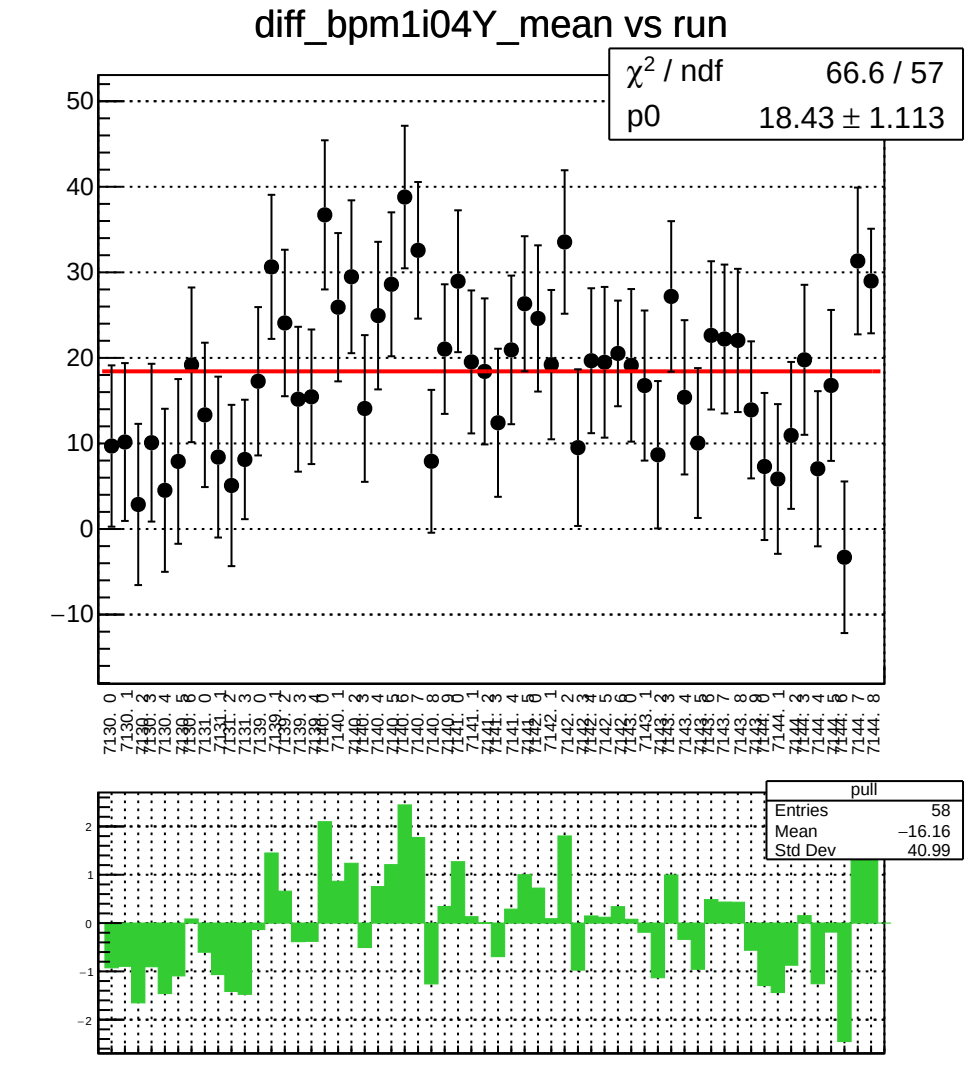

pull1D
Entries 58
Mean 0.03243
Std Dev 1.39

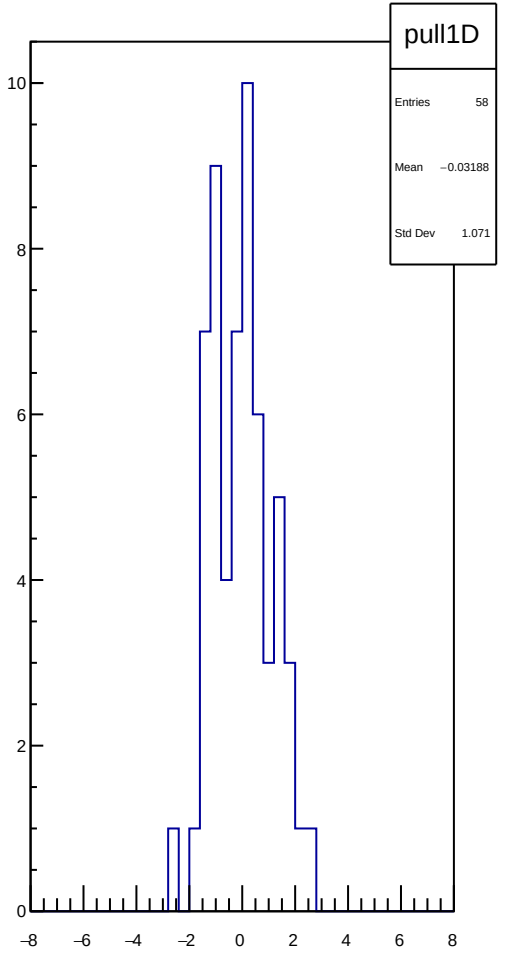

diff_bpm1i02Y_rms vs run
χ² / ndf 2995 / 57
p0 695.1 ± 0.6613
800
780
760
740
720
700
680
660

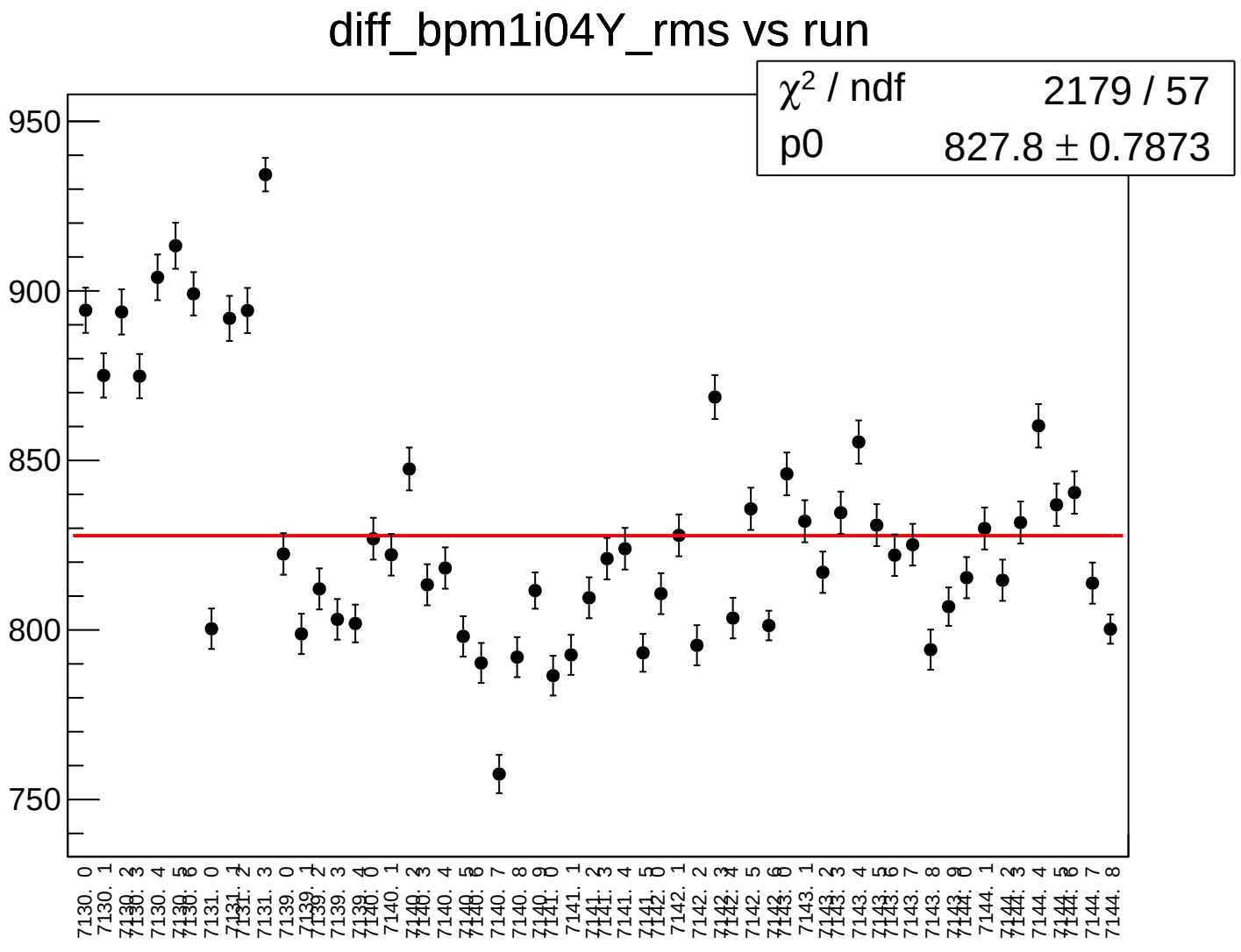

diff_bpm1i04X_mean vs run
χ^2 / ndf 118.4 / 57
p0 −2.221 ± 1.32
pull
Entries 58
Mean 2.194e+04
Std Dev 2.191e+04

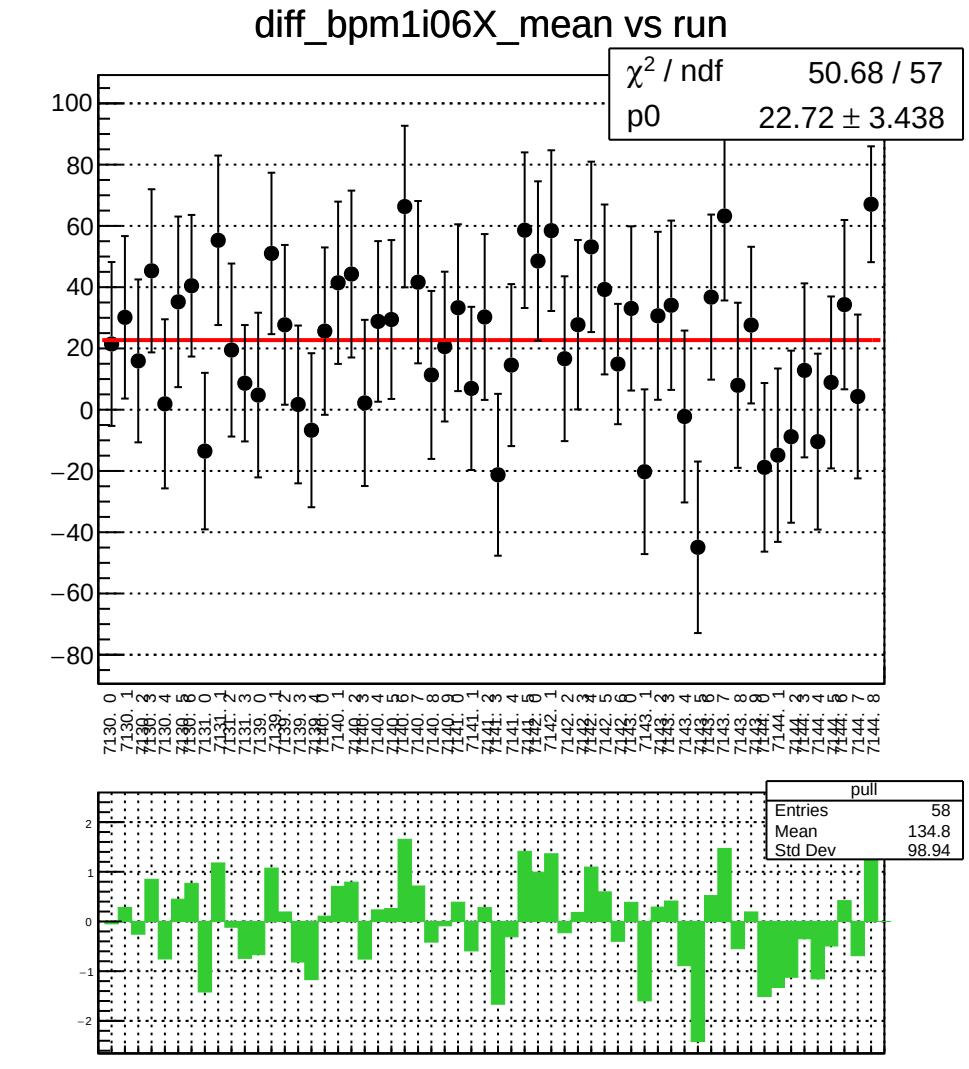

pull1D
Entries 58
Mean −0.0005942
Std Dev 1.429

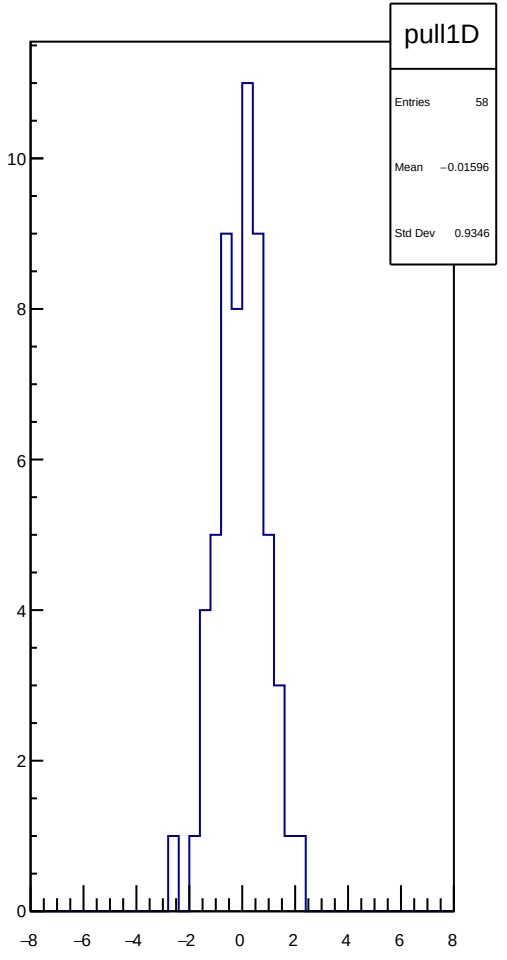

diff_bpm1i04X_rms vs run
χ² / ndf 1465 / 57
p0 981.4 ± 0.933
1050
1000
950
900
850

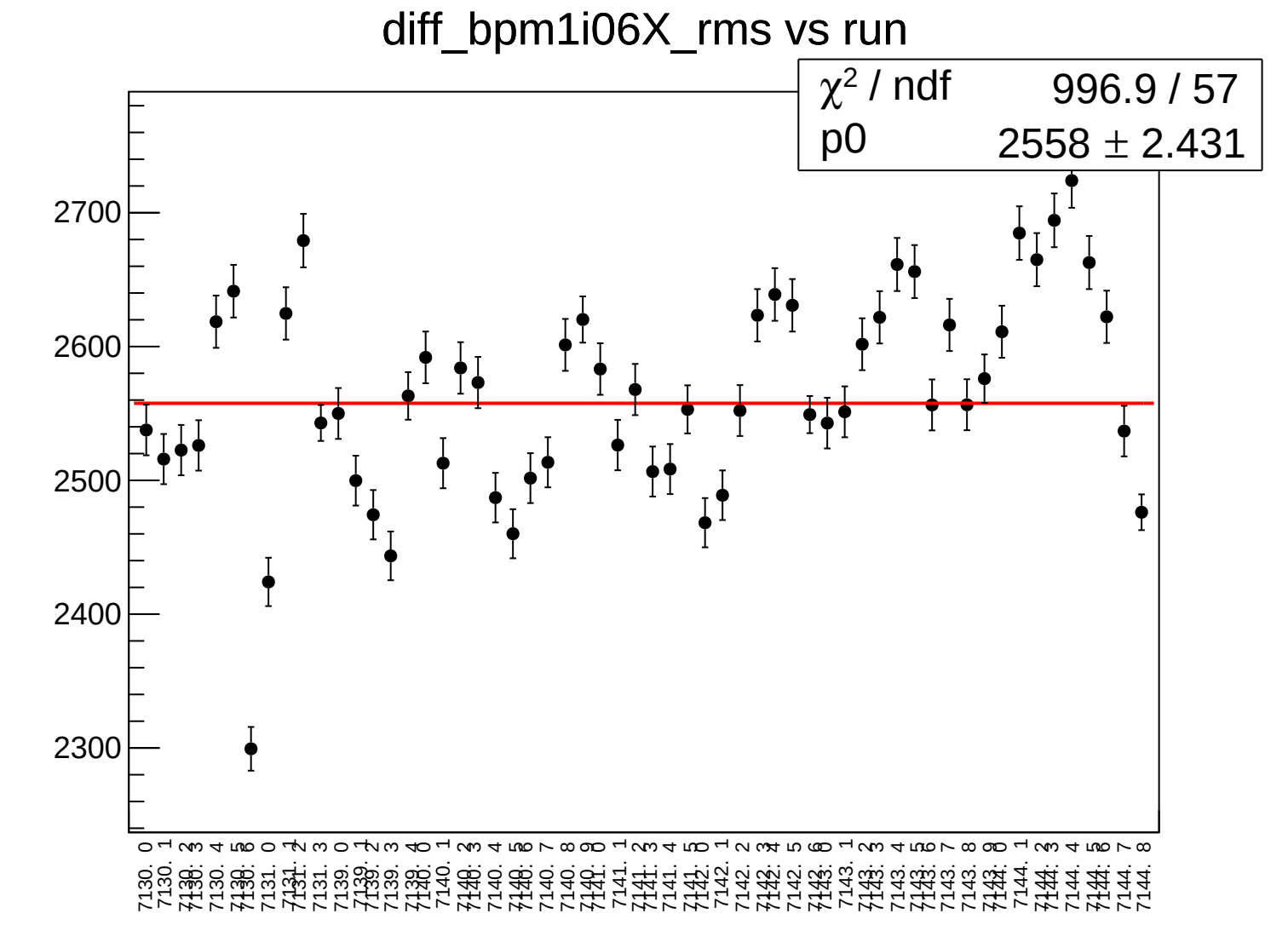

diff_bpm1i04Y_mean vs run
χ^2 / ndf 66.6 / 57
p0 18.43 ± 1.113
pull
Entries 58
Mean −16.16
Std Dev 40.99

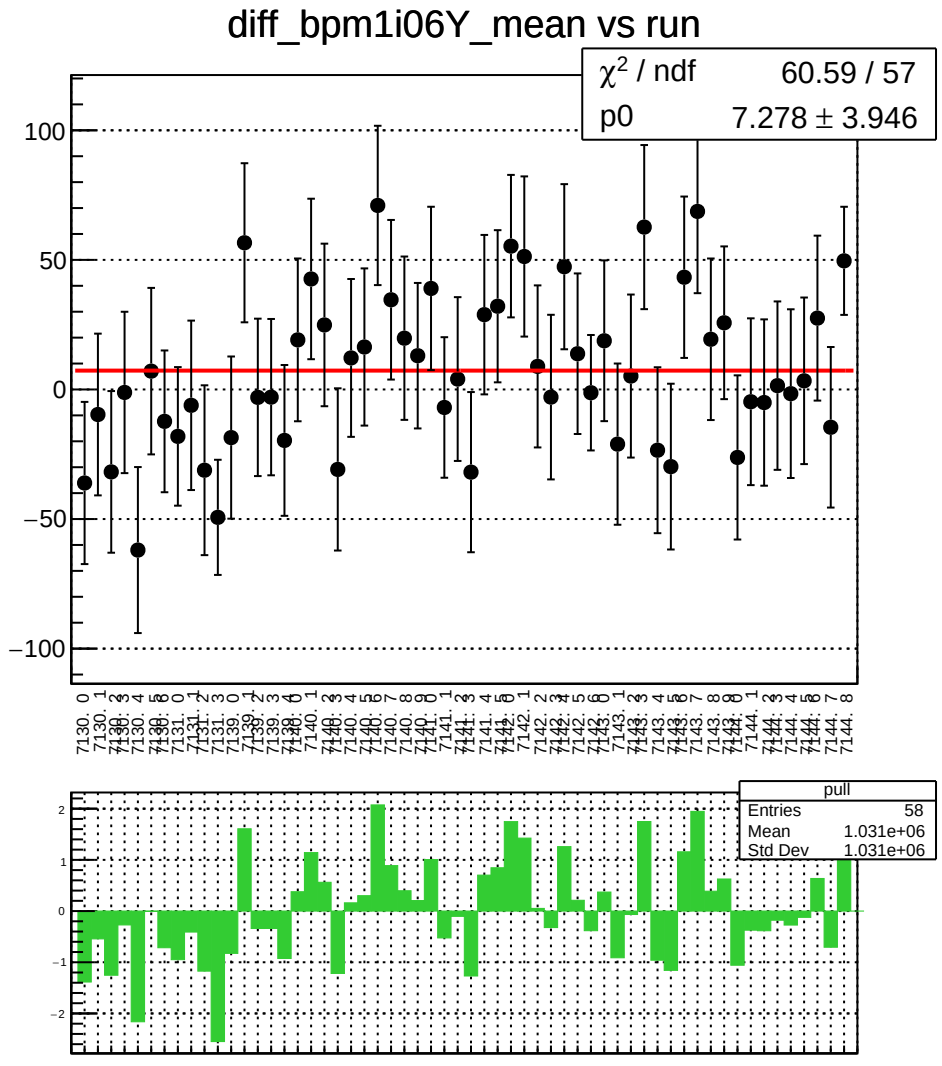

pull1D
Entries 58
Mean −0.03188
Std Dev 1.071

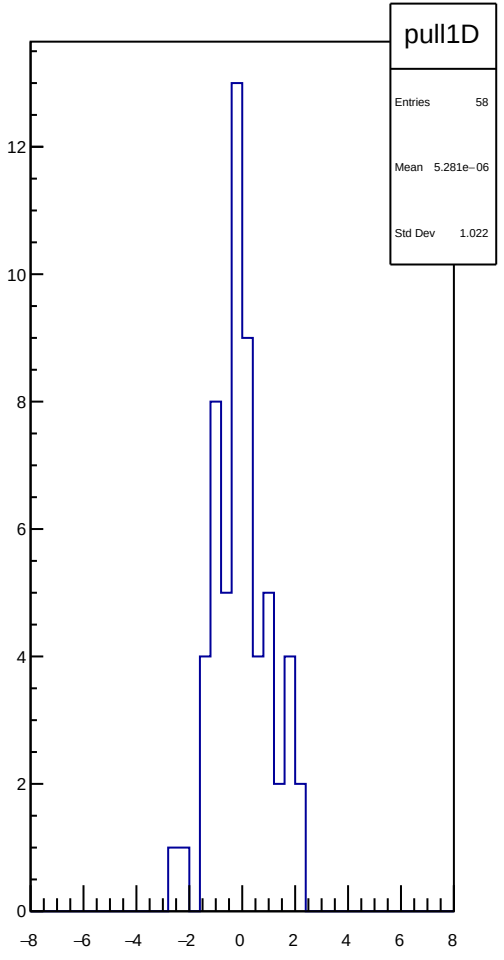

diff_bpm1i04Y_rms vs run
χ² / ndf 2179 / 57
p0 827.8 ± 0.7873
950
900
850
800
750

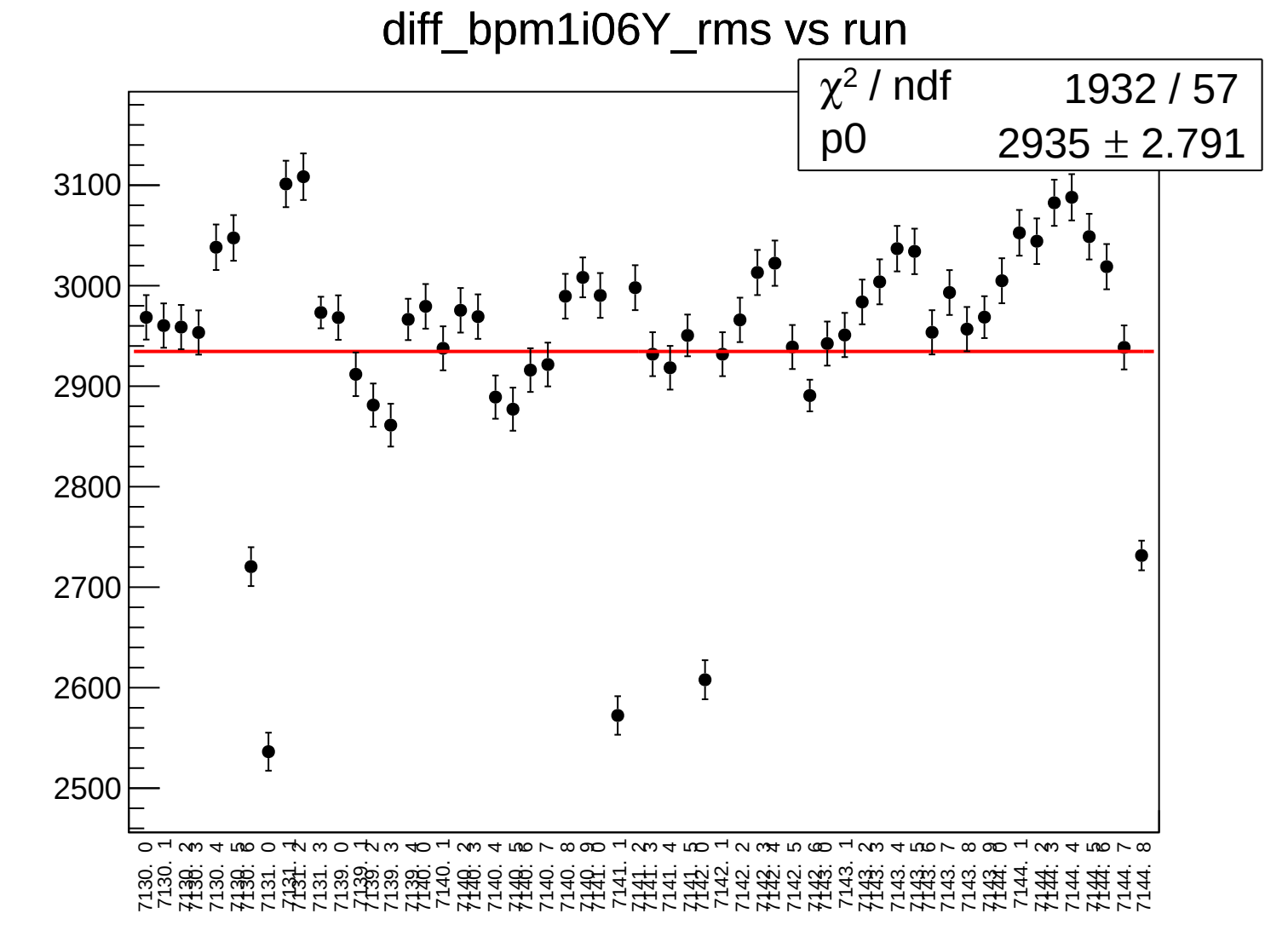

diff_bpm1i06X_mean vs run
χ^2 / ndf 50.68 / 57
p0 22.72 ± 3.438
pull
Entries 58
Mean 134.8
Std Dev 98.94

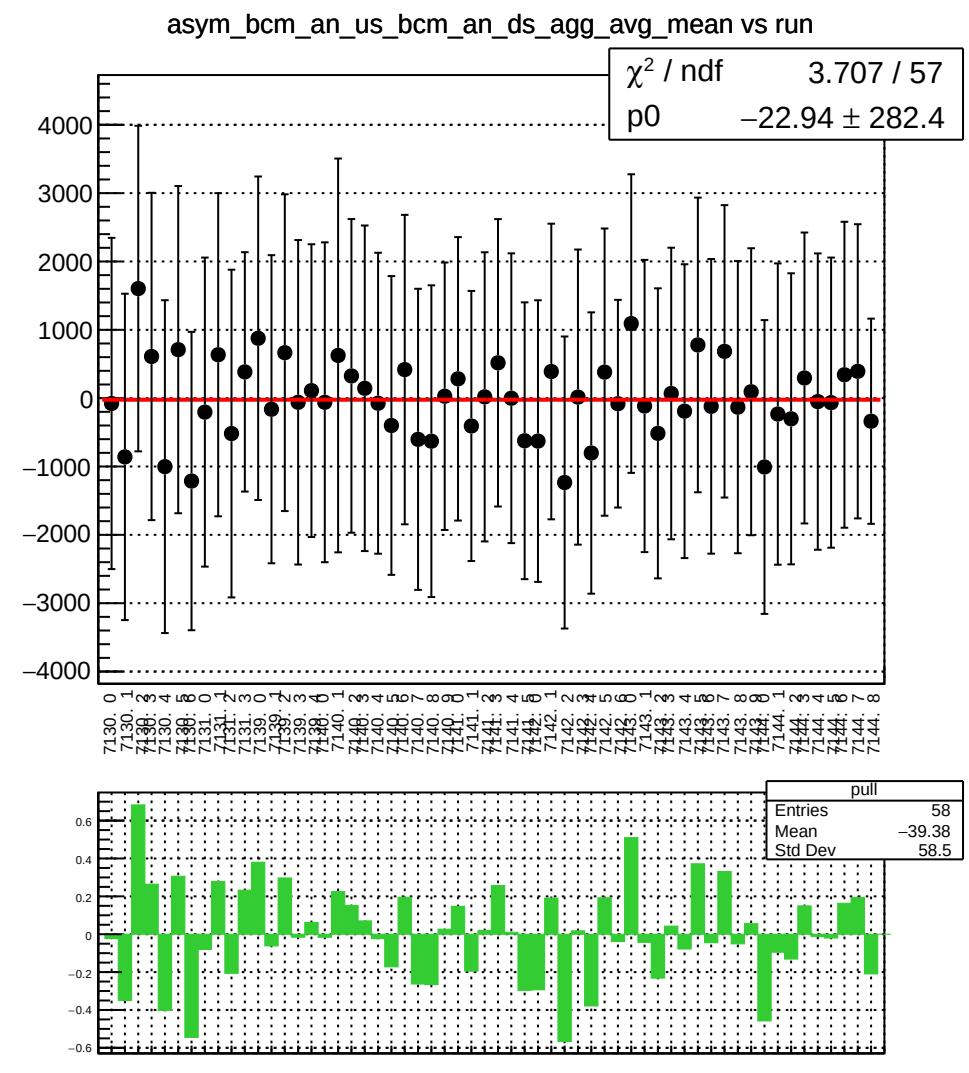

pull1D
Entries 58
Mean −0.01596
Std Dev 0.9346

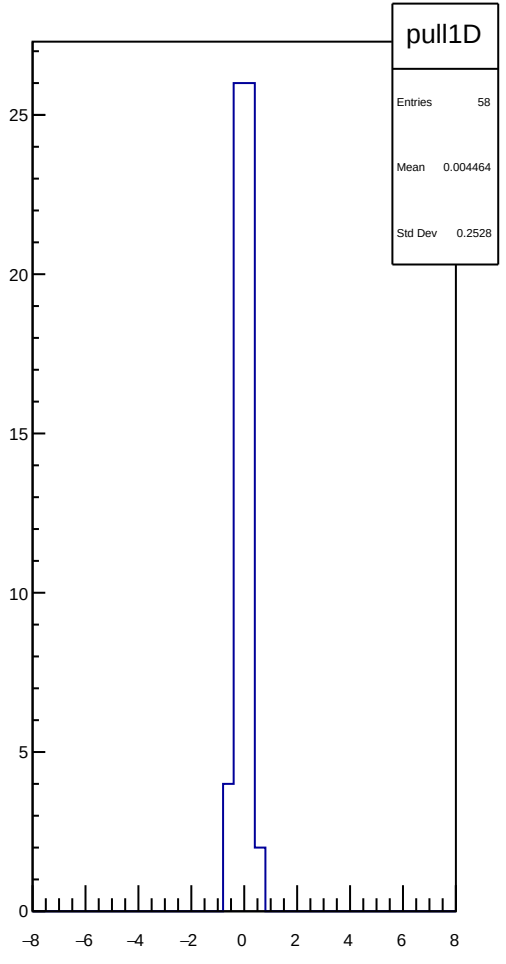

diff_bpm1i06X_rms vs run
χ² / ndf 996.9 / 57
p0 2558 ± 2.431
2700
2600
2500
2400
2300

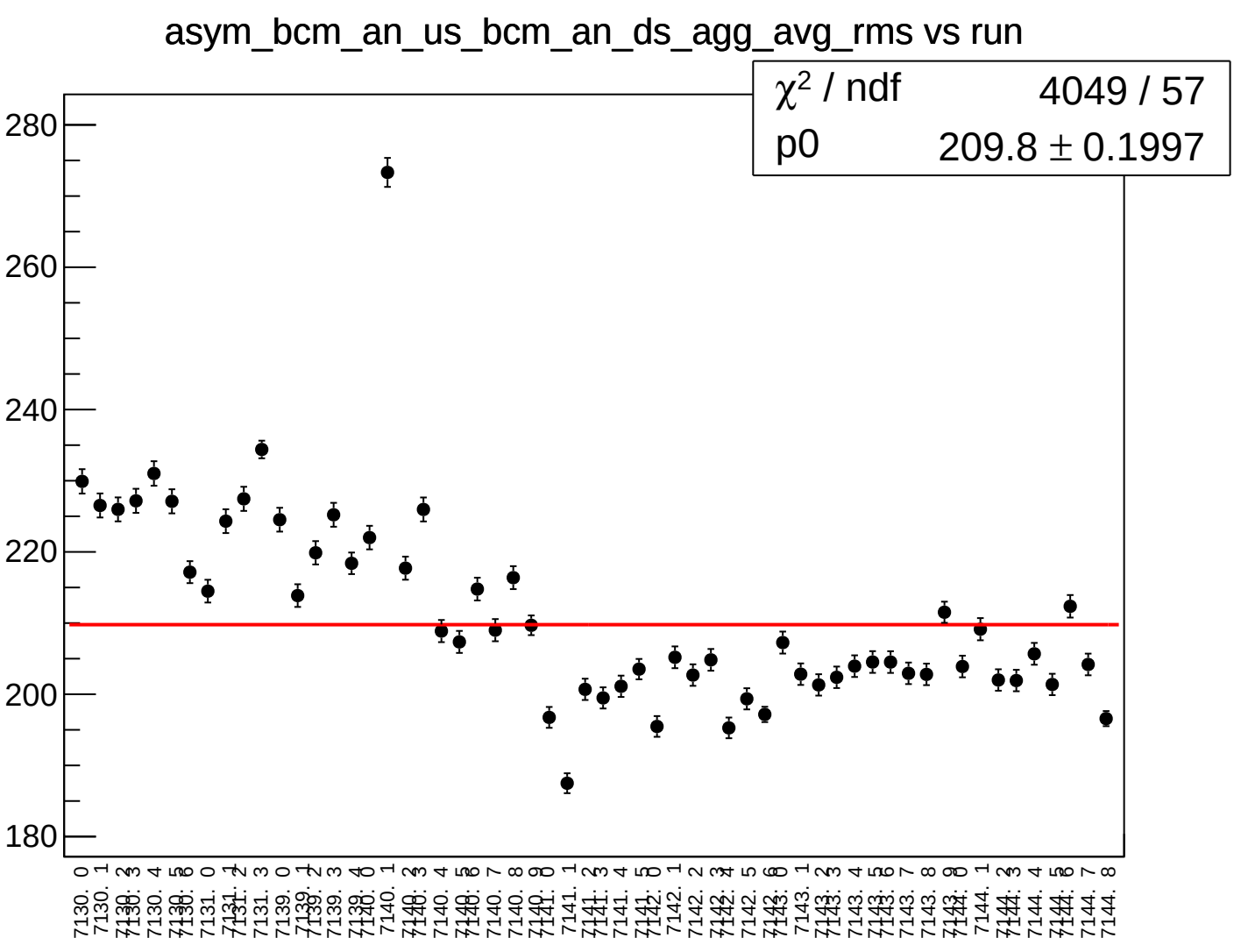

diff_bpm1i06Y_mean vs run
χ² / ndf 60.59 / 57
p0 7.278 ± 3.946
100
50
0
−50
−100
pull
Entries 58
Mean 1.031e+06
Std Dev 1.031e+06
2
1
0
−1
−2

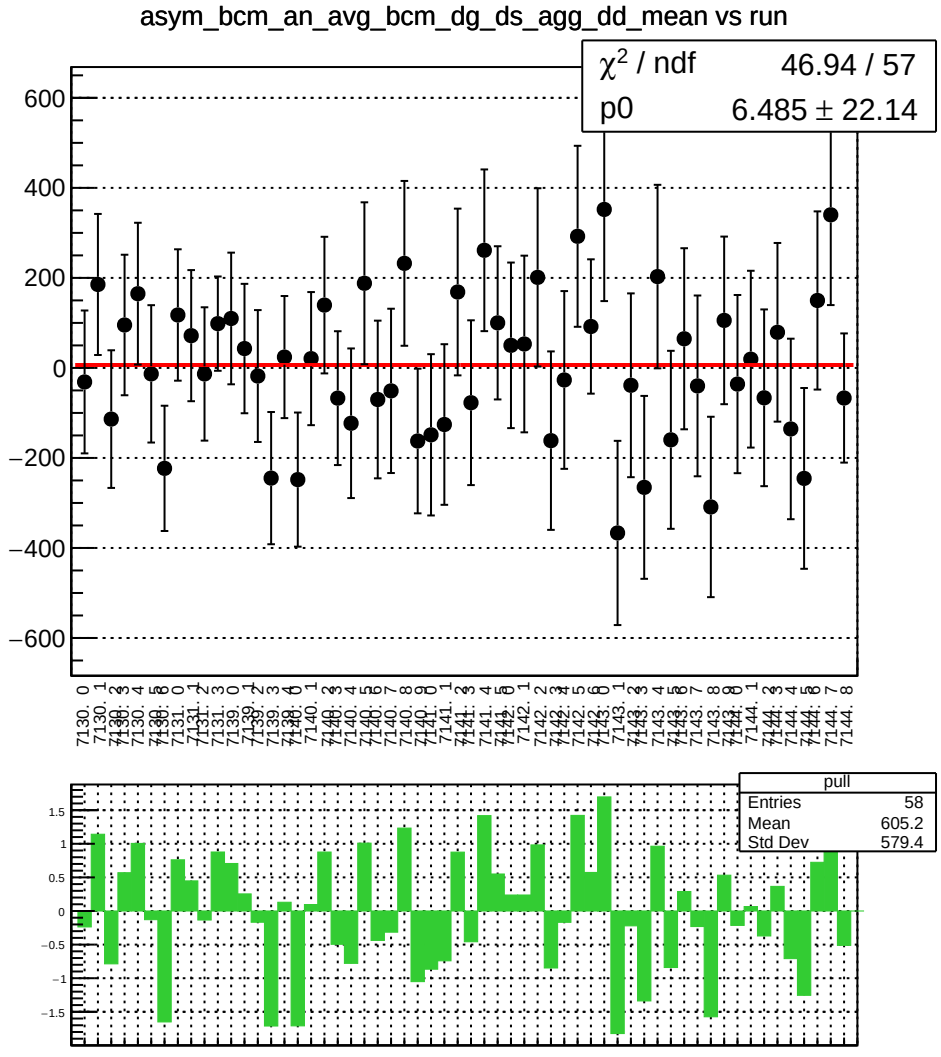

pull1D
Entries 58
Mean 5.281e−06
Std Dev 1.022
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

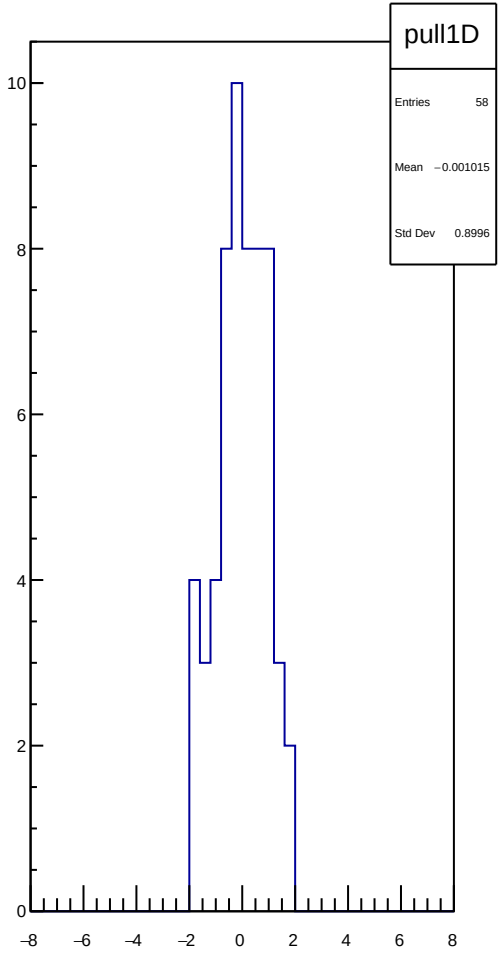

diff_bpm1i06Y_rms vs run
χ² / ndf 1932 / 57
p0 2935 ± 2.791
3100
3000
2900
2800
2700
2600
2500

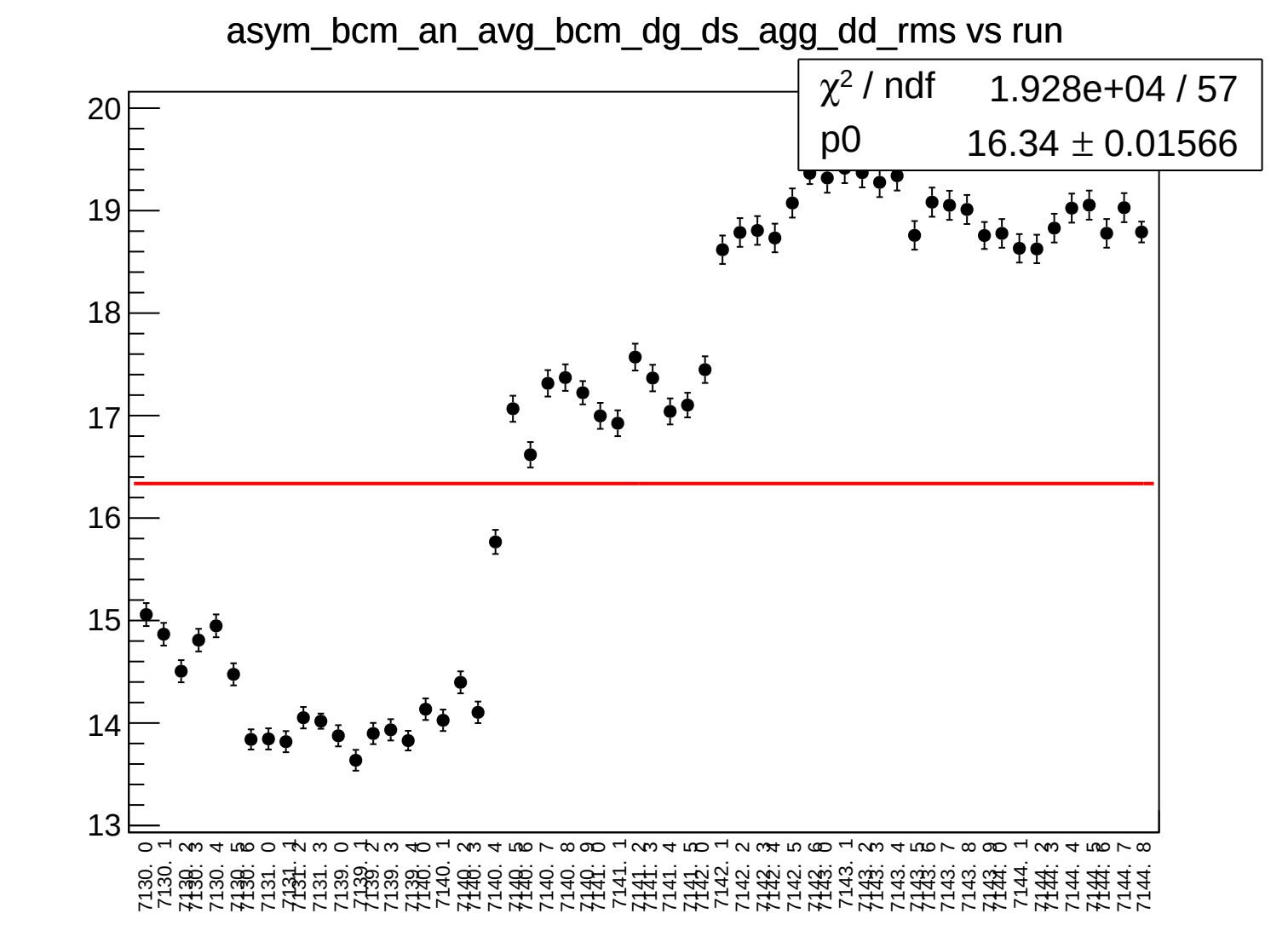

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.707 / 57
p0 −22.94 ± 282.4
pull
Entries 58
Mean −39.38
Std Dev 58.5

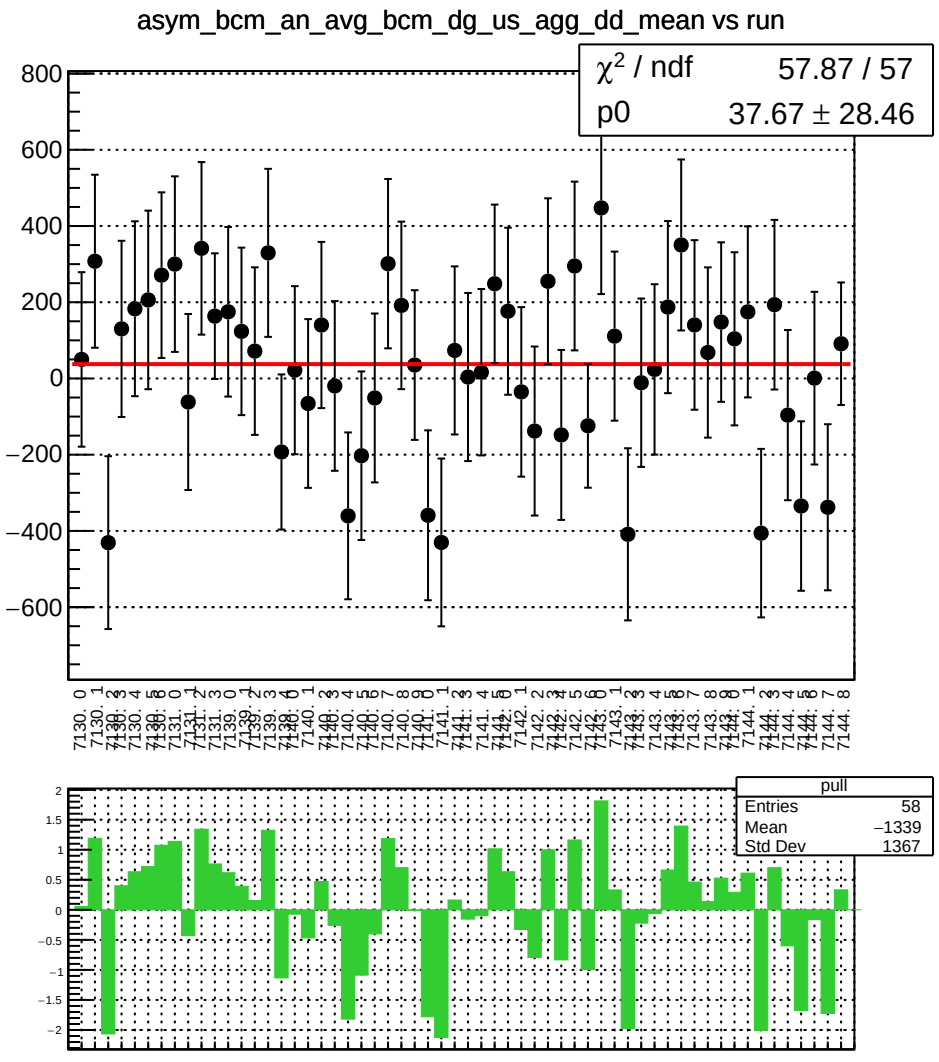

pull1D
Entries 58
Mean 0.004464
Std Dev 0.2528

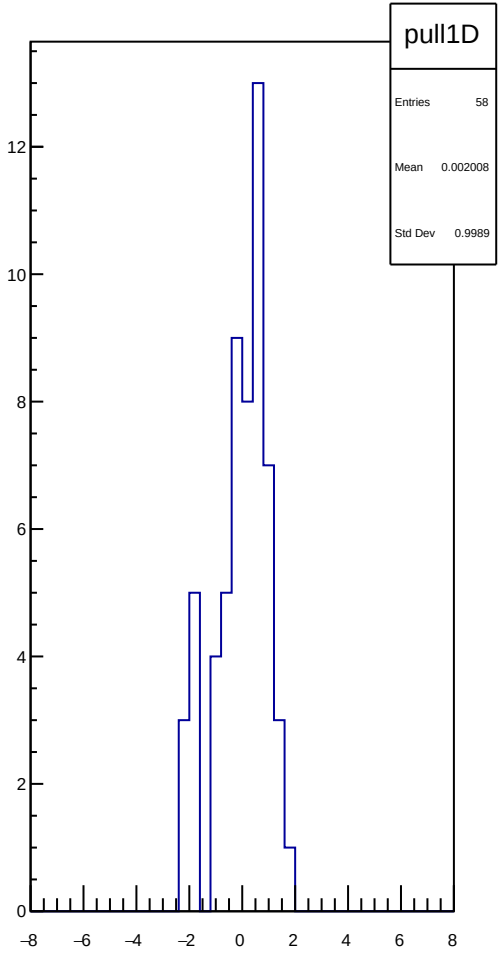

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4049 / 57
p0 209.8 ± 0.1997
280
260
240
220
200
180

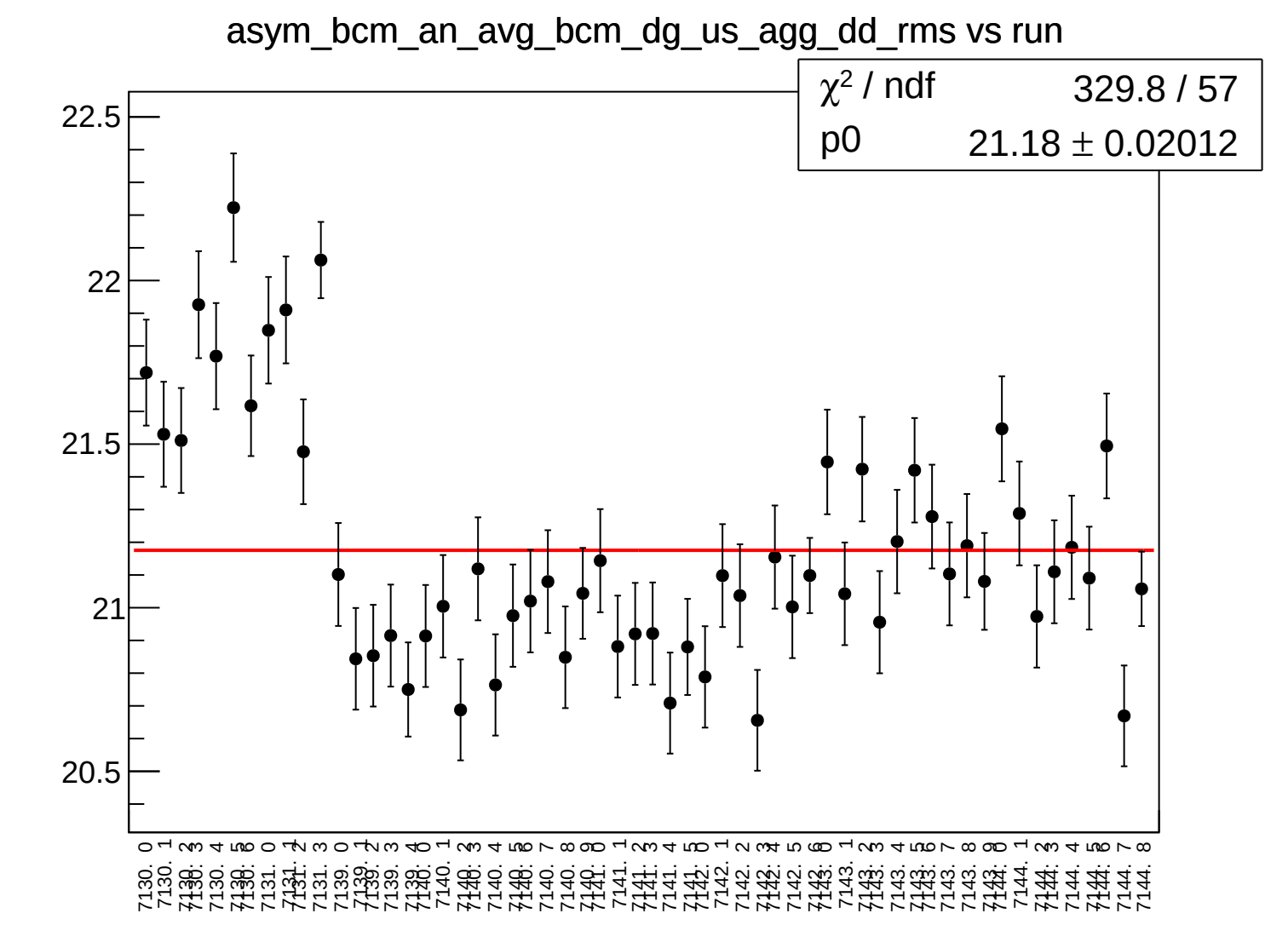

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.94 / 57
p0 6.485 ± 22.14
pull
Entries 58
Mean 605.2
Std Dev 579.4

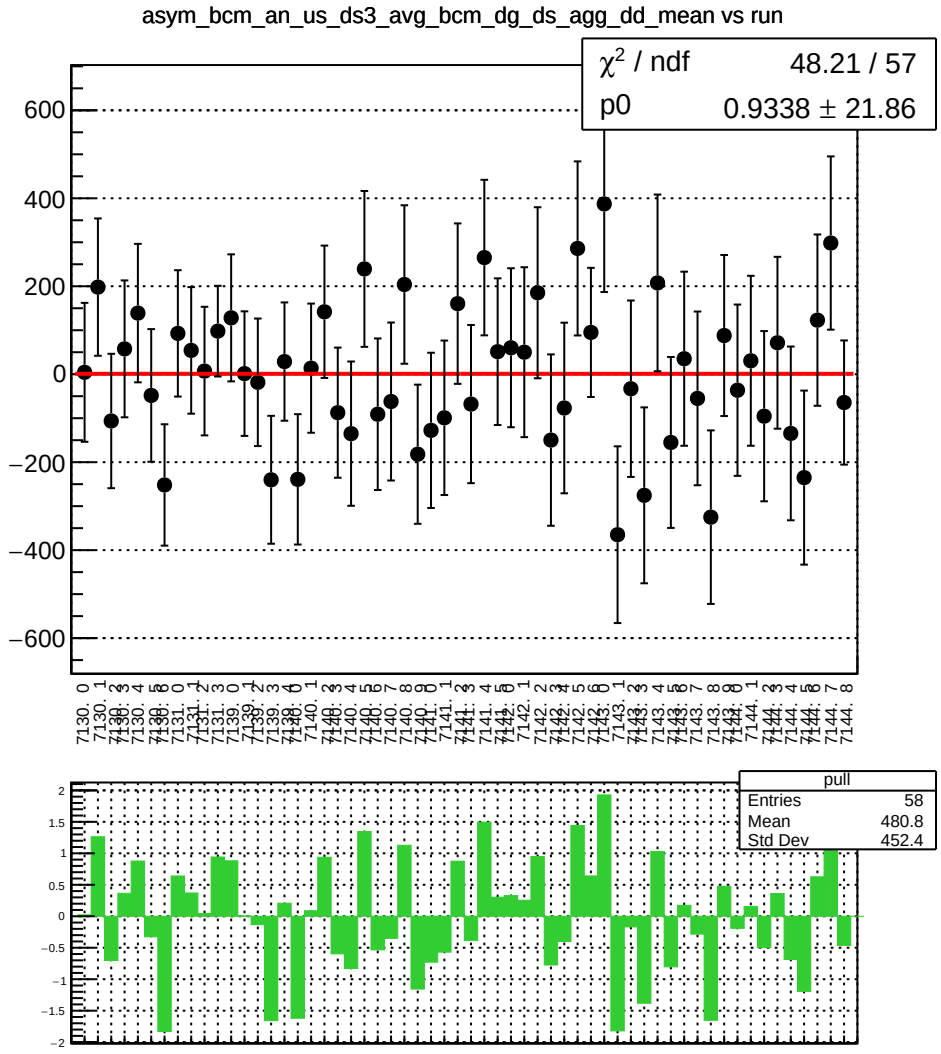

pull1D
Entries 58
Mean −0.001015
Std Dev 0.8996

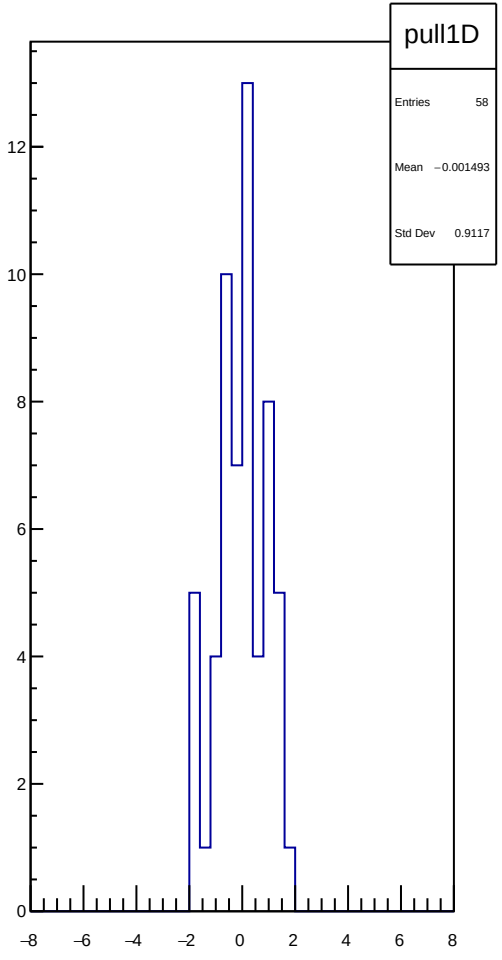

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.928e+04 / 57
p0 16.34 ± 0.01566
20
19
18
17
16
15
14
13

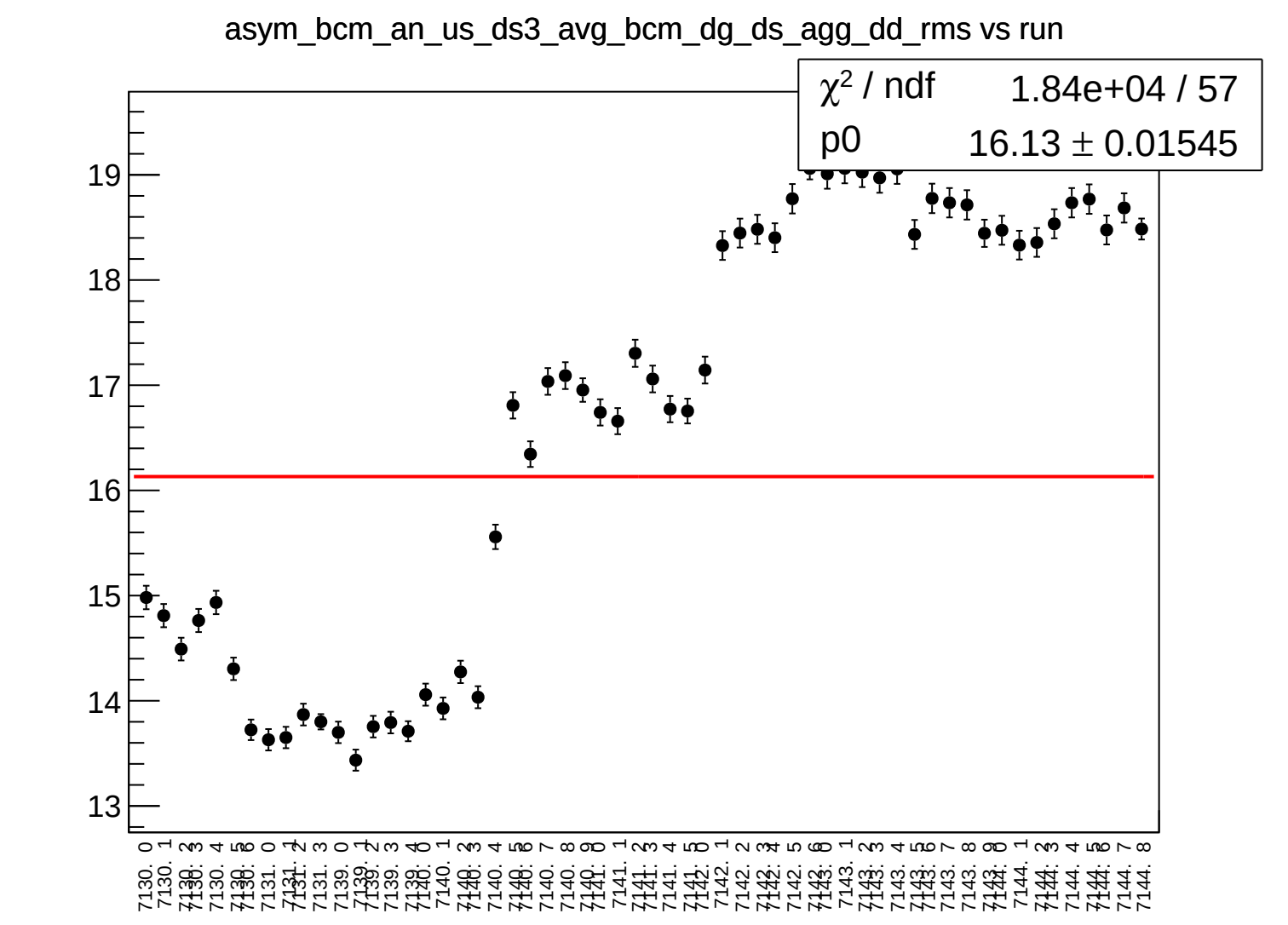

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ^2 / ndf 57.87 / 57
p0 37.67 ± 28.46
pull
Entries 58
Mean −1339
Std Dev 1367

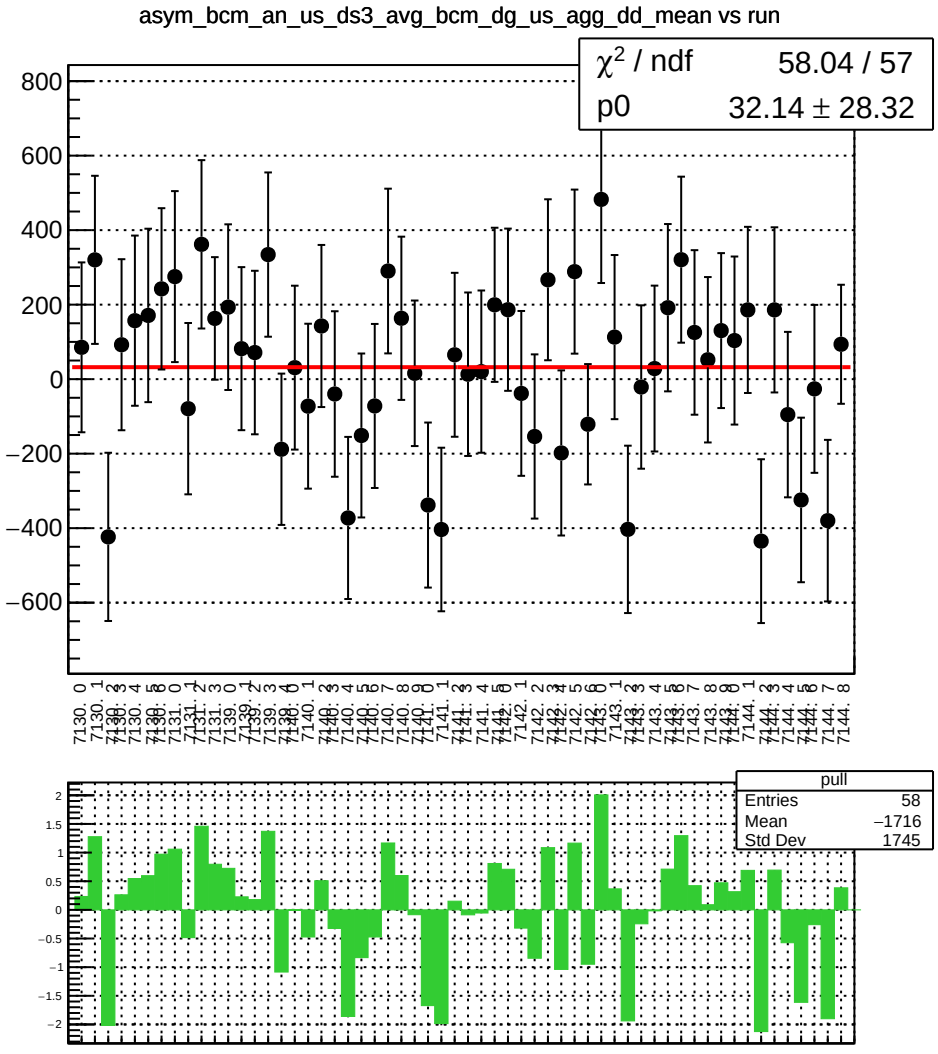

pull1D
Entries 58
Mean 0.002008
Std Dev 0.9989

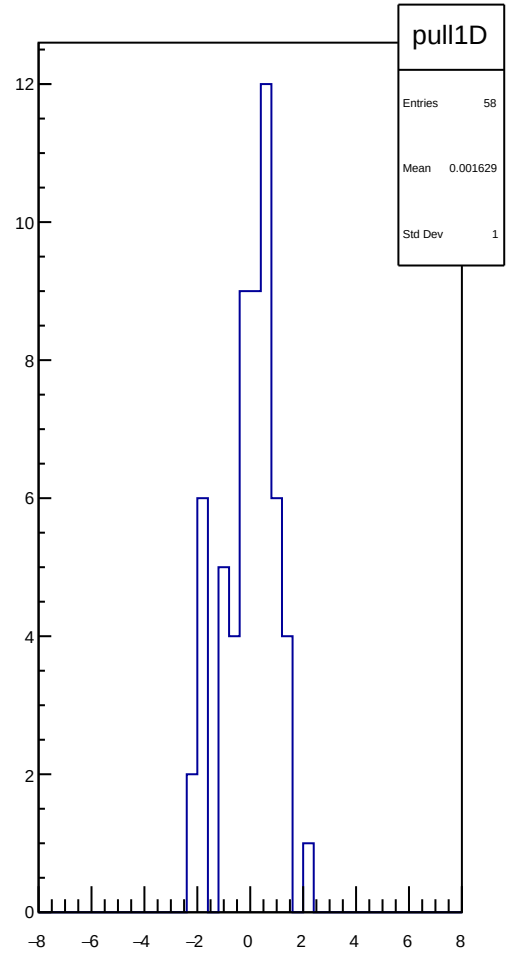

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 329.8 / 57
p0 21.18 ± 0.02012
22.5
22
21.5
21
20.5

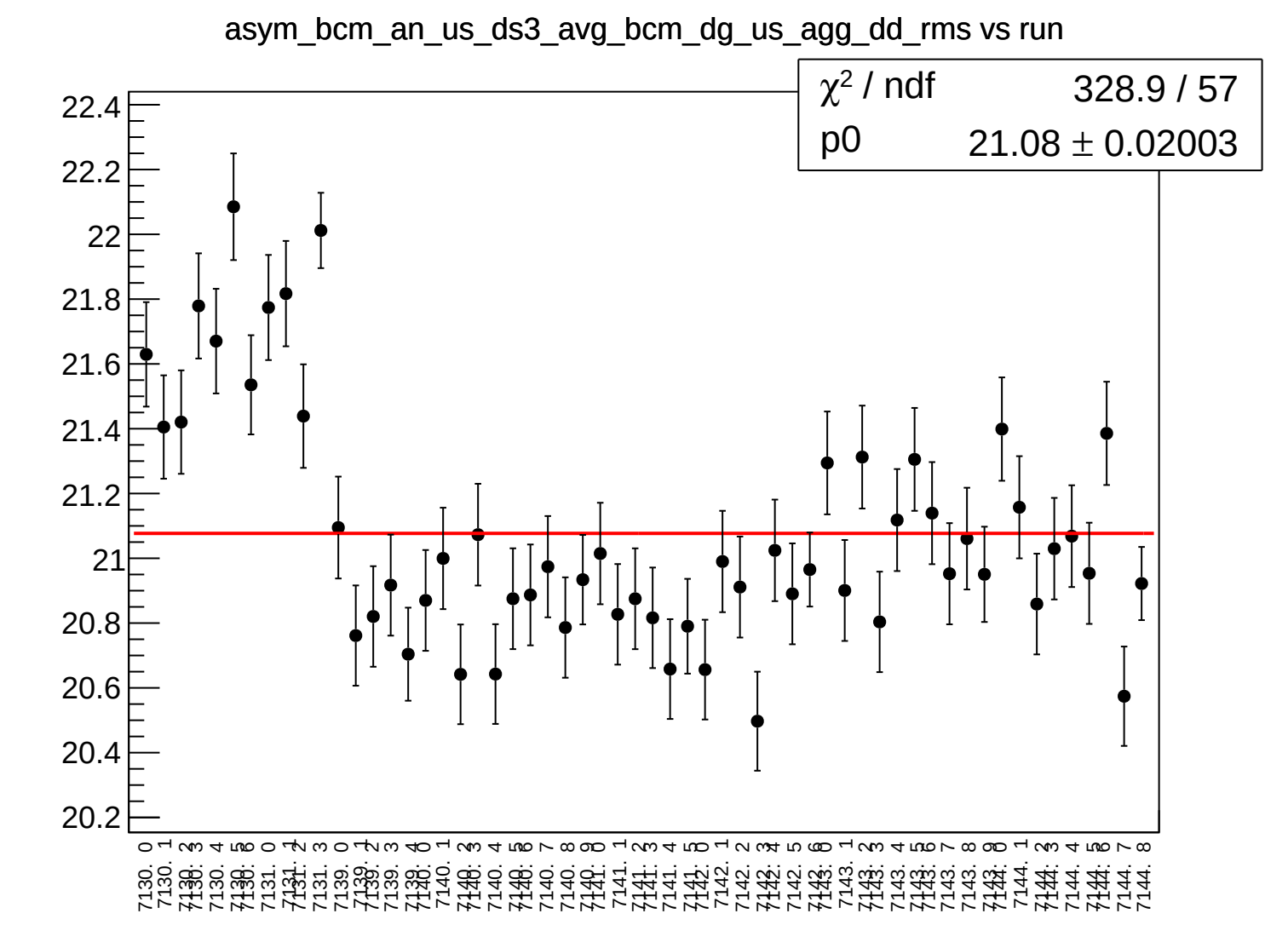

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 48.21 / 57
p0 0.9338 ± 21.86
pull
Entries 58
Mean 480.8
Std Dev 452.4

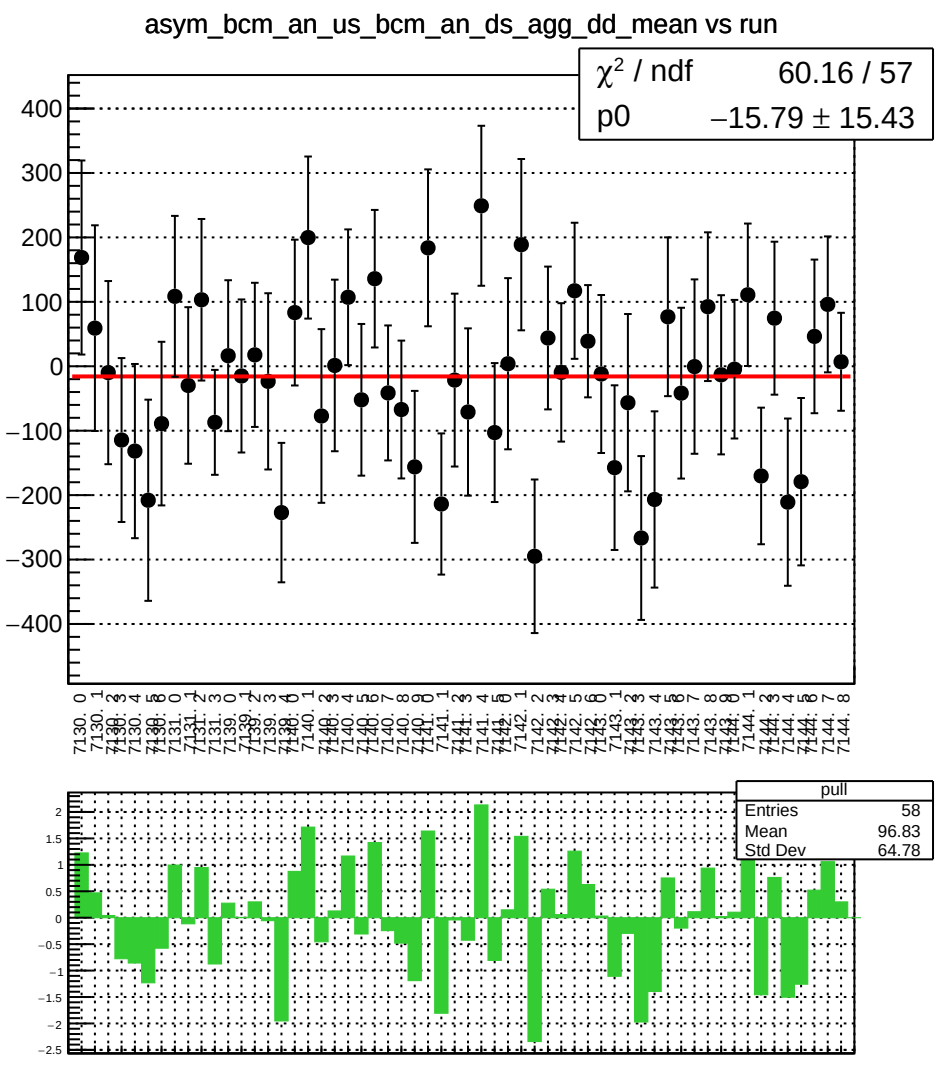

pull1D
Entries 58
Mean −0.001493
Std Dev 0.9117

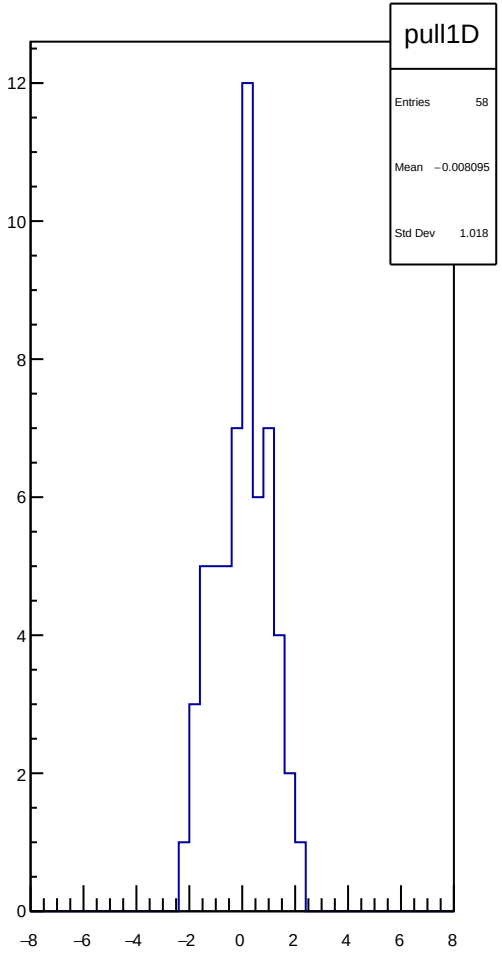

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.84e+04 / 57
p0 16.13 ± 0.01545
19
18
17
16
15
14
13

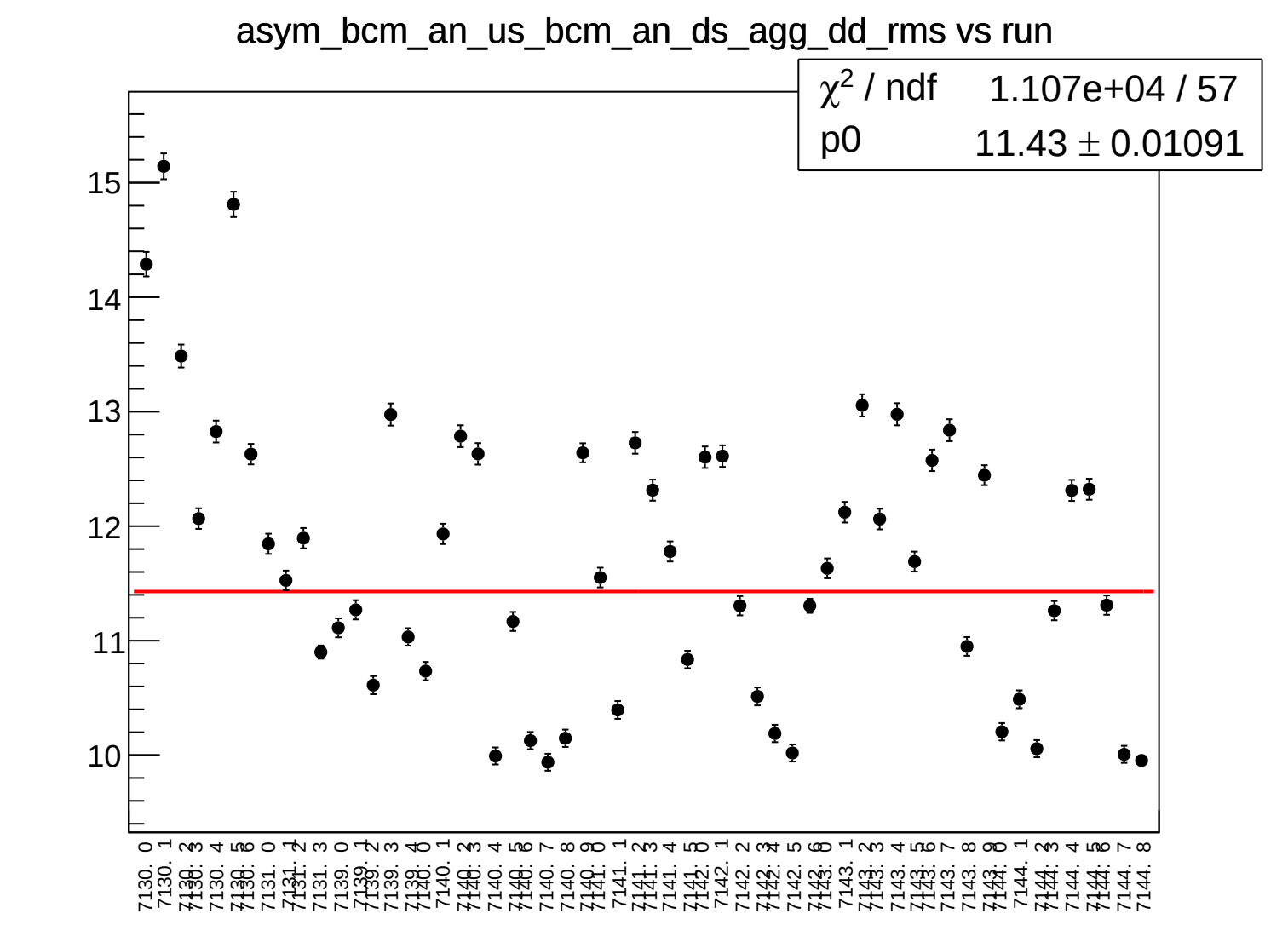

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 58.04 / 57
p0 32.14 ± 28.32
pull
Entries 58
Mean −1716
Std Dev 1745

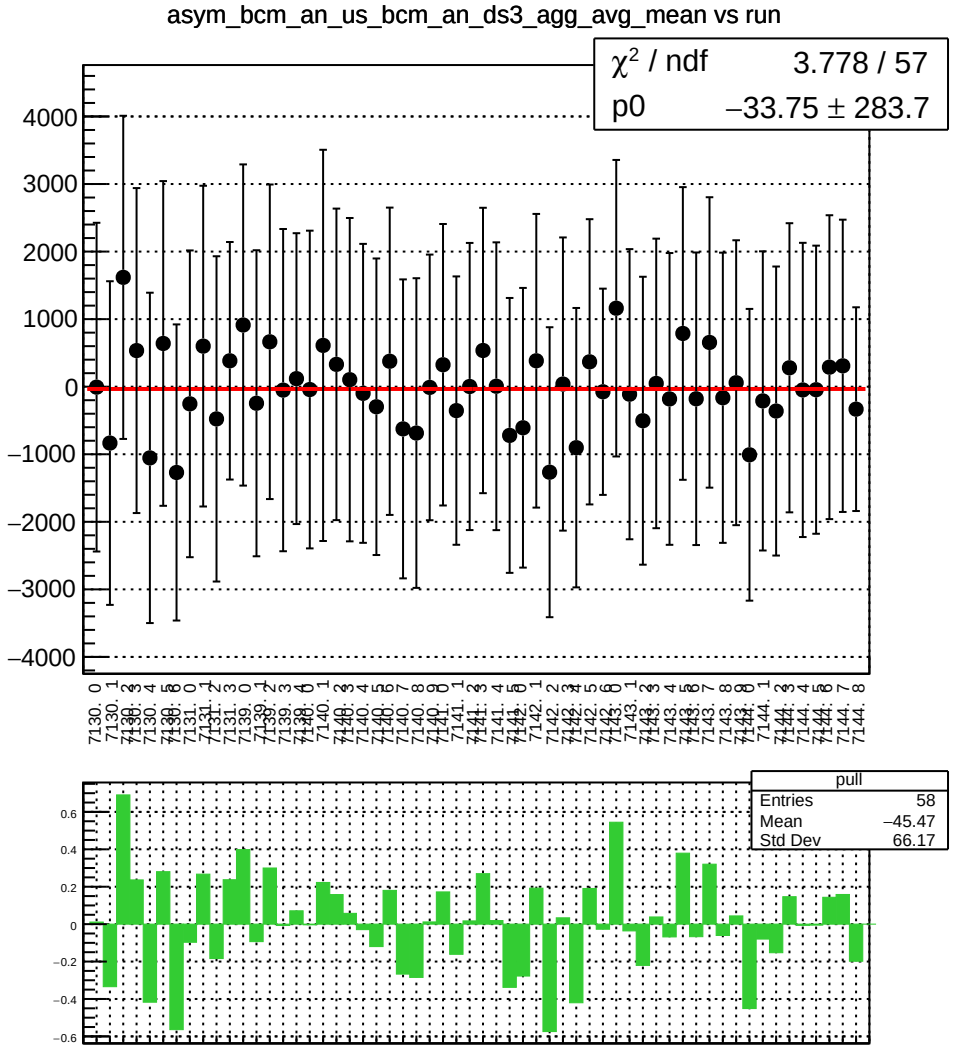

pull1D
Entries 58
Mean 0.001629
Std Dev 1

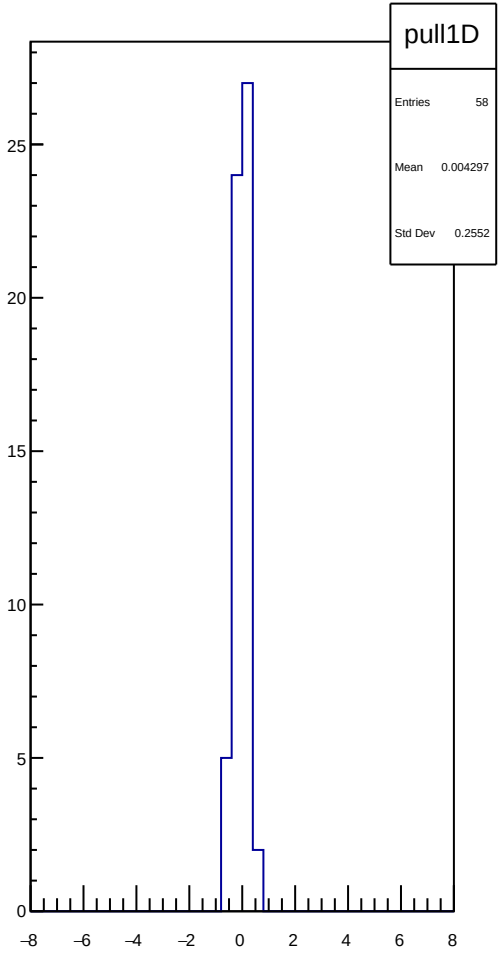

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 328.9 / 57
p0 21.08 ± 0.02003
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

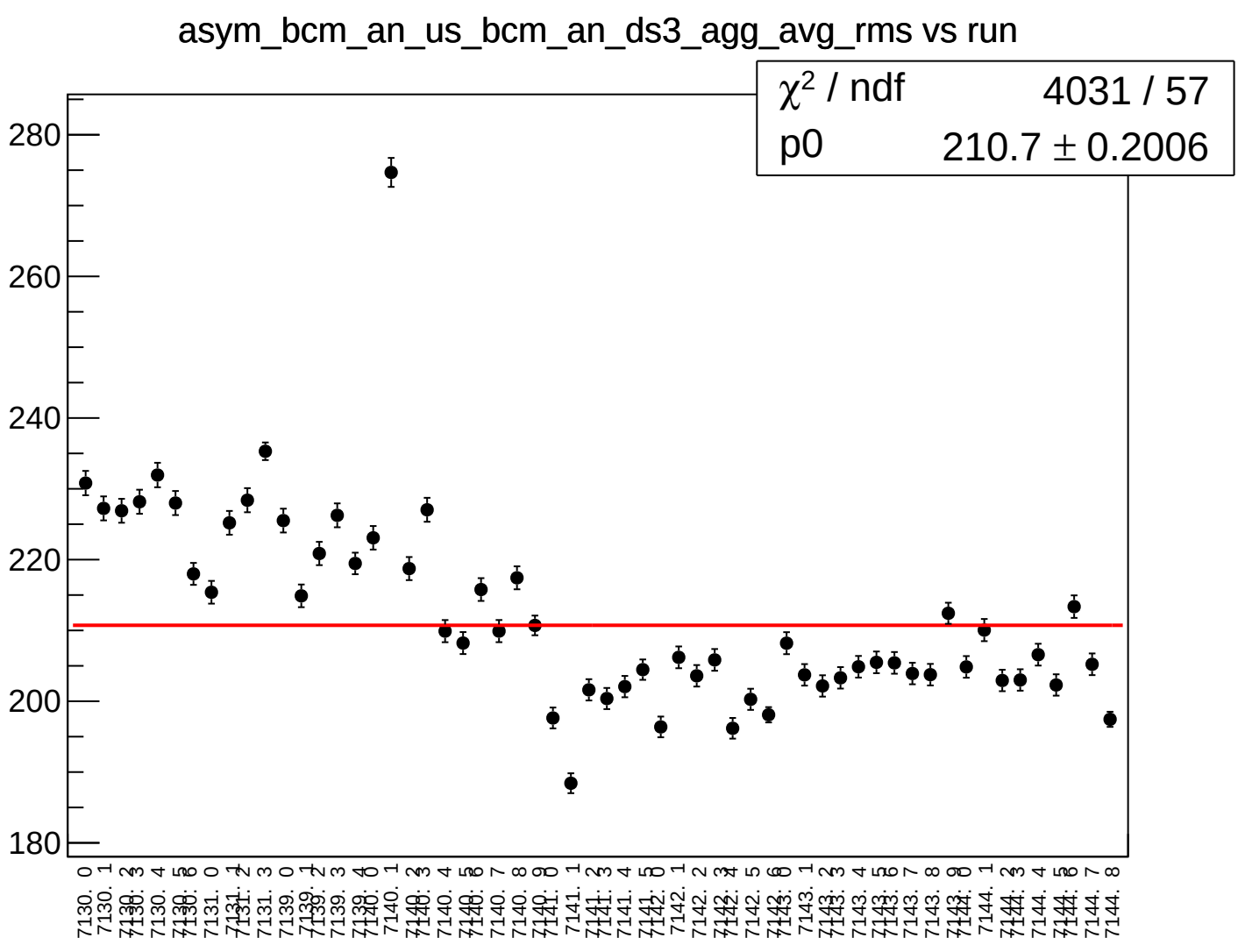

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.16 / 57
p0 −15.79 ± 15.43
pull
Entries 58
Mean 96.83
Std Dev 64.78

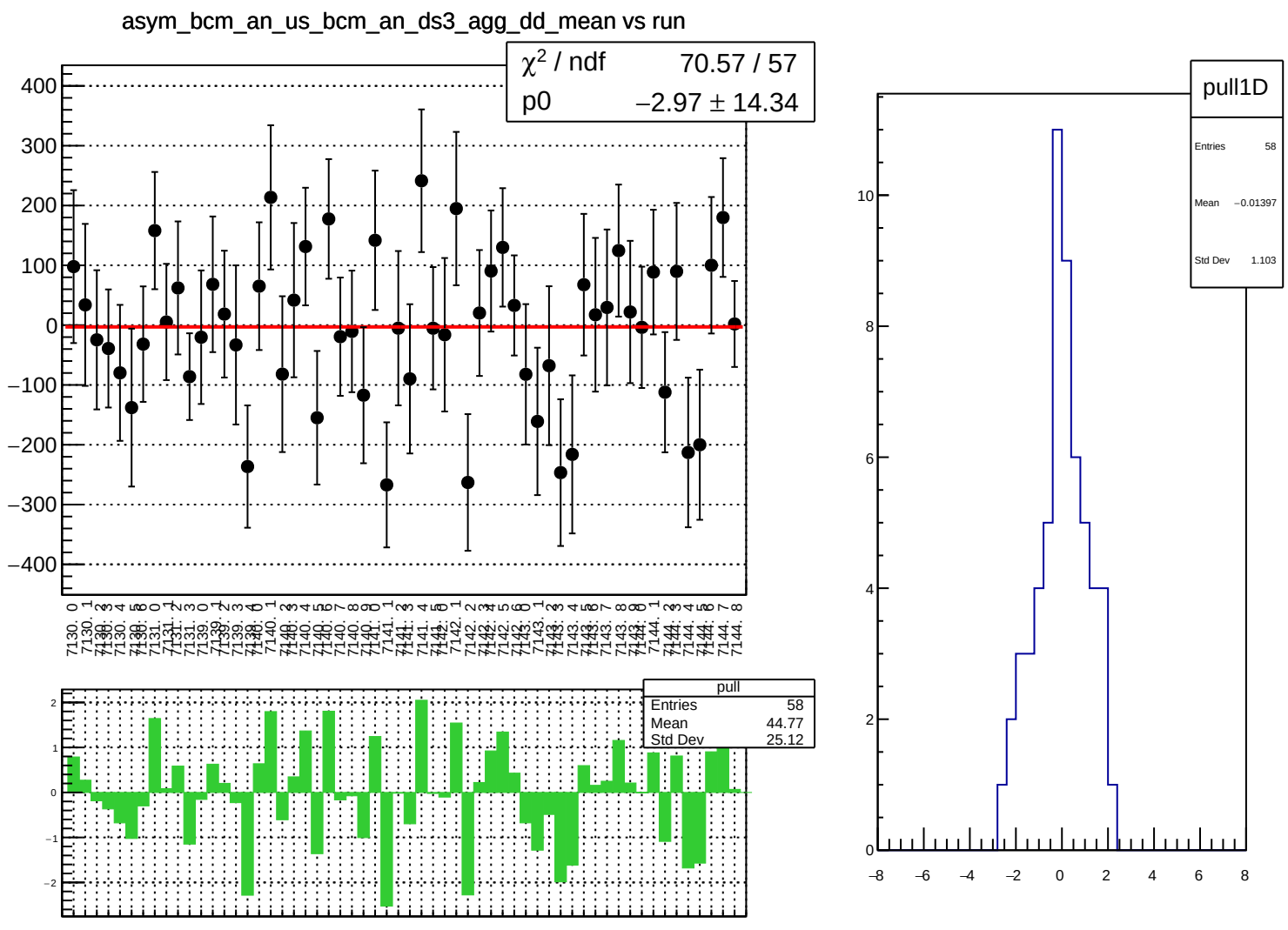

pull1D
Entries 58
Mean −0.008095
Std Dev 1.018

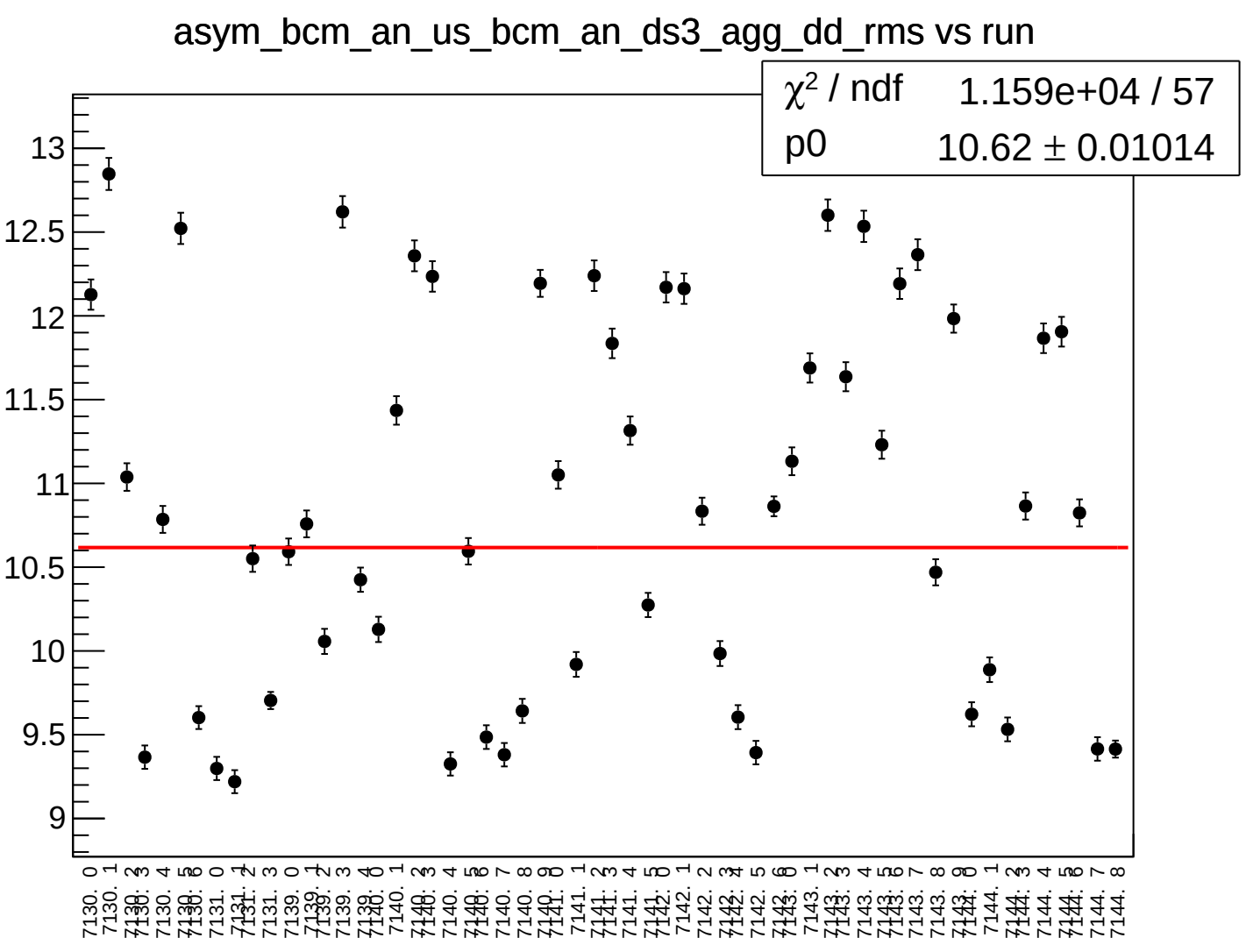

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ2 / ndf 1.107e+04 / 57
p0 11.43 ± 0.01091
15
14
13
12
11
10

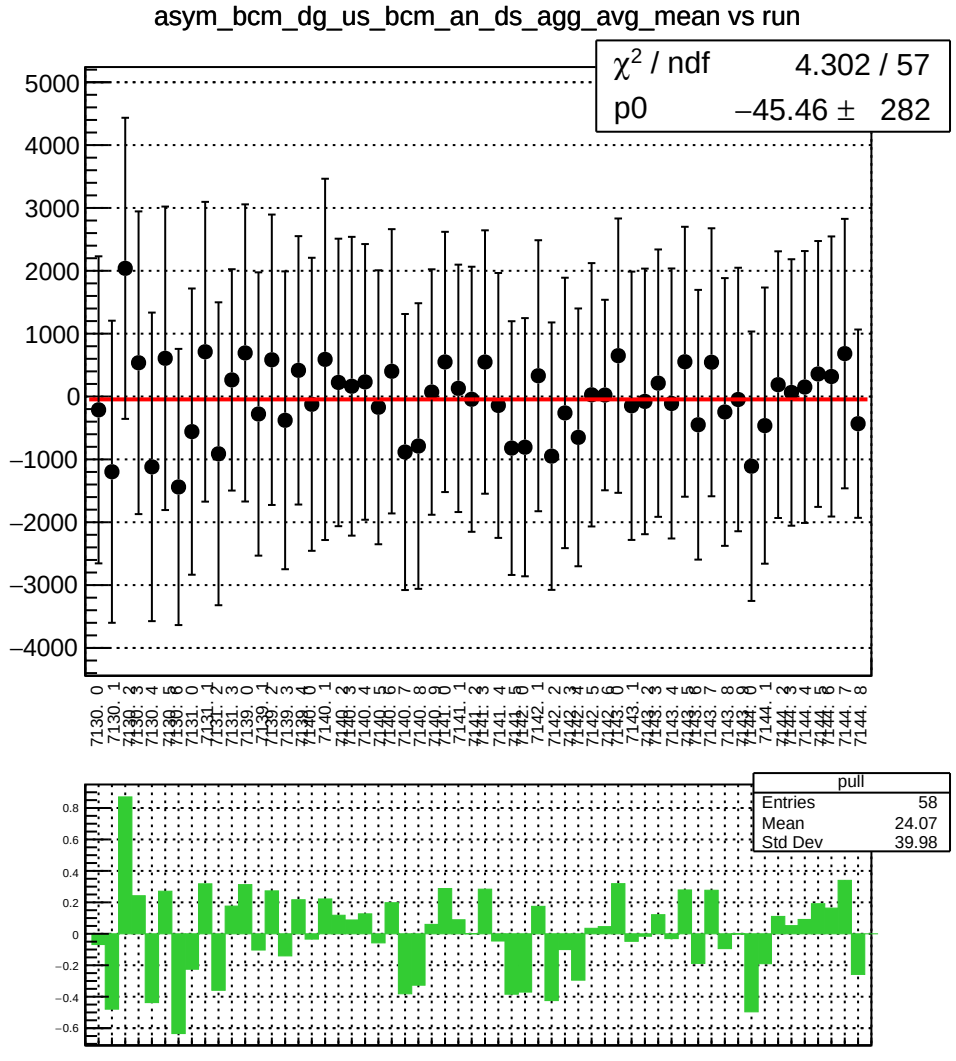

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 3.778 / 57
p0 −33.75 ± 283.7
pull
Entries 58
Mean −45.47
Std Dev 66.17

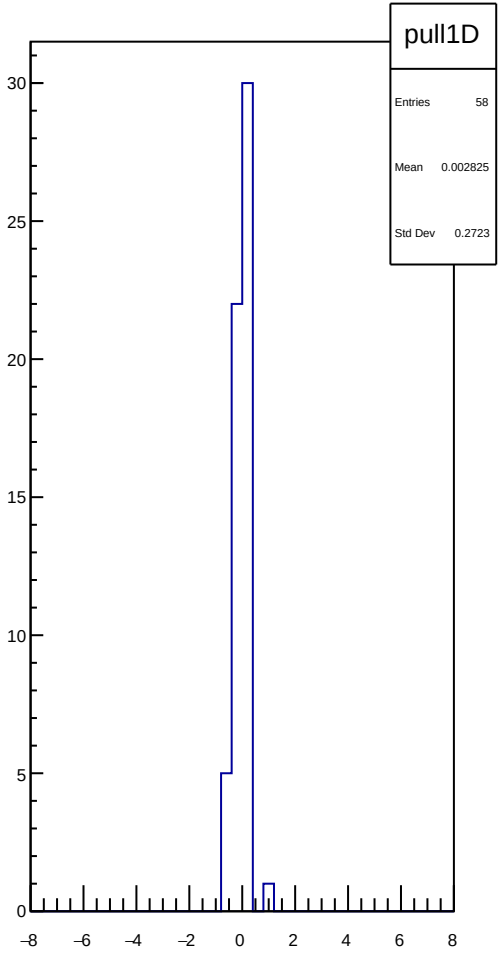

pull1D
Entries 58
Mean 0.004297
Std Dev 0.2552

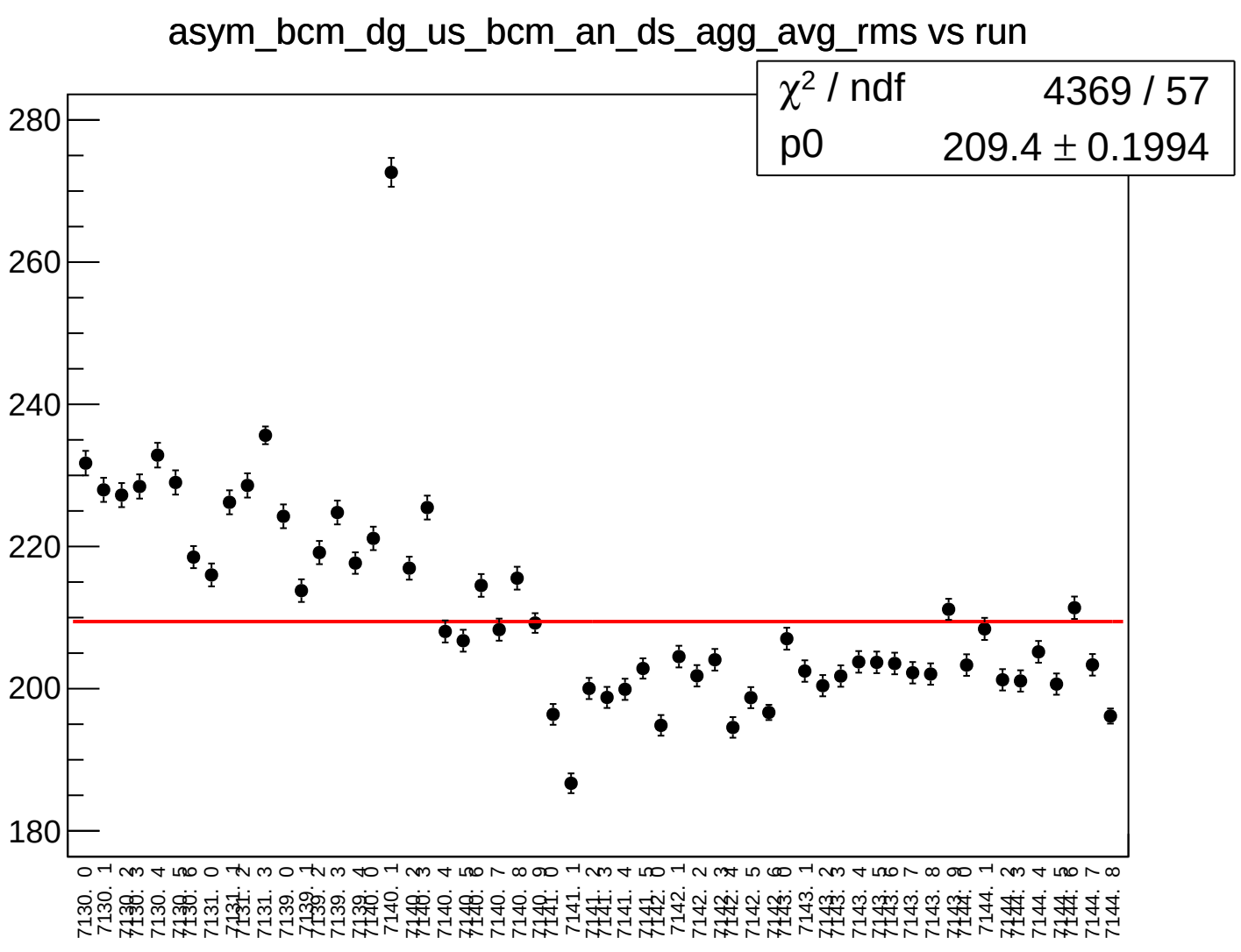

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4031 / 57
p0 210.7 ± 0.2006
280
260
240
220
200
180

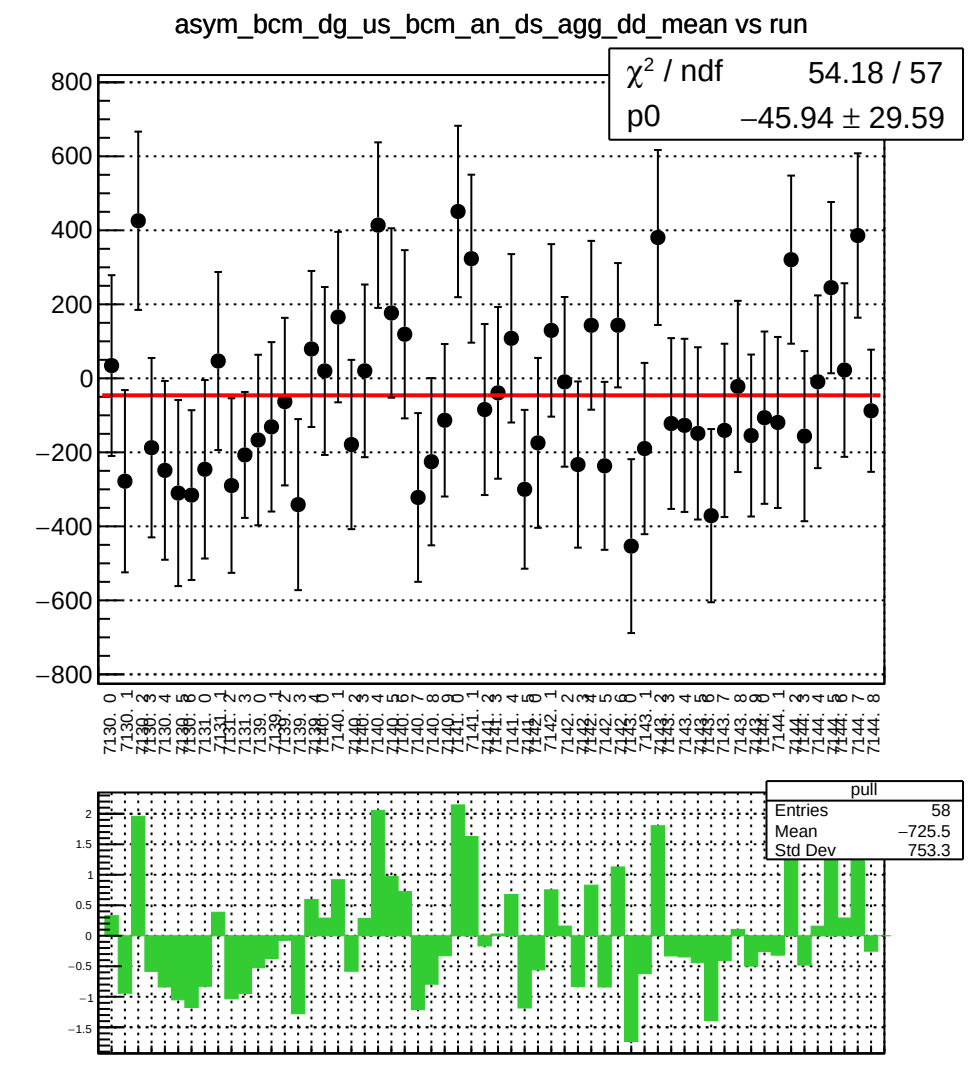

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 70.57 / 57
p0 −2.97 ± 14.34
pull
Entries 58
Mean 44.77
Std Dev 25.12
pull1D
Entries 58
Mean −0.01397
Std Dev 1.103

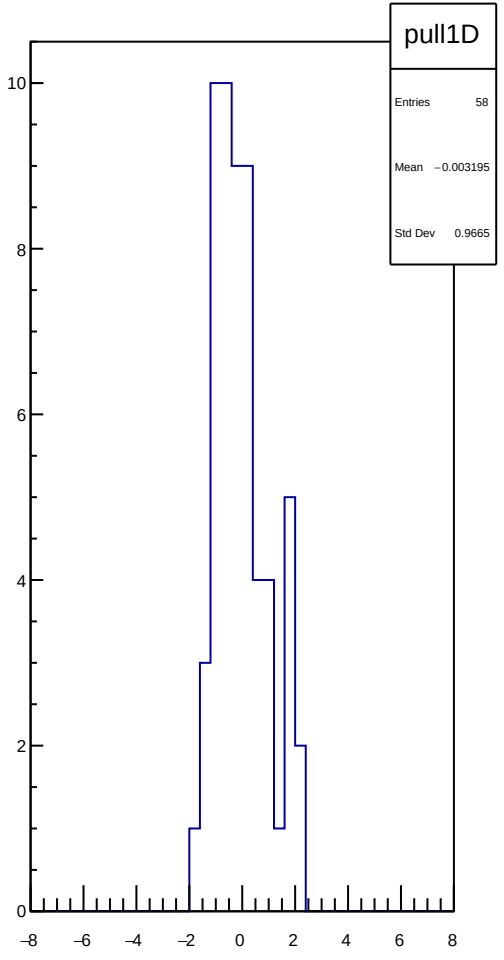

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.159e+04 / 57
p0 10.62 ± 0.01014
13
12.5
12
11.5
11
10.5
10
9.5
9

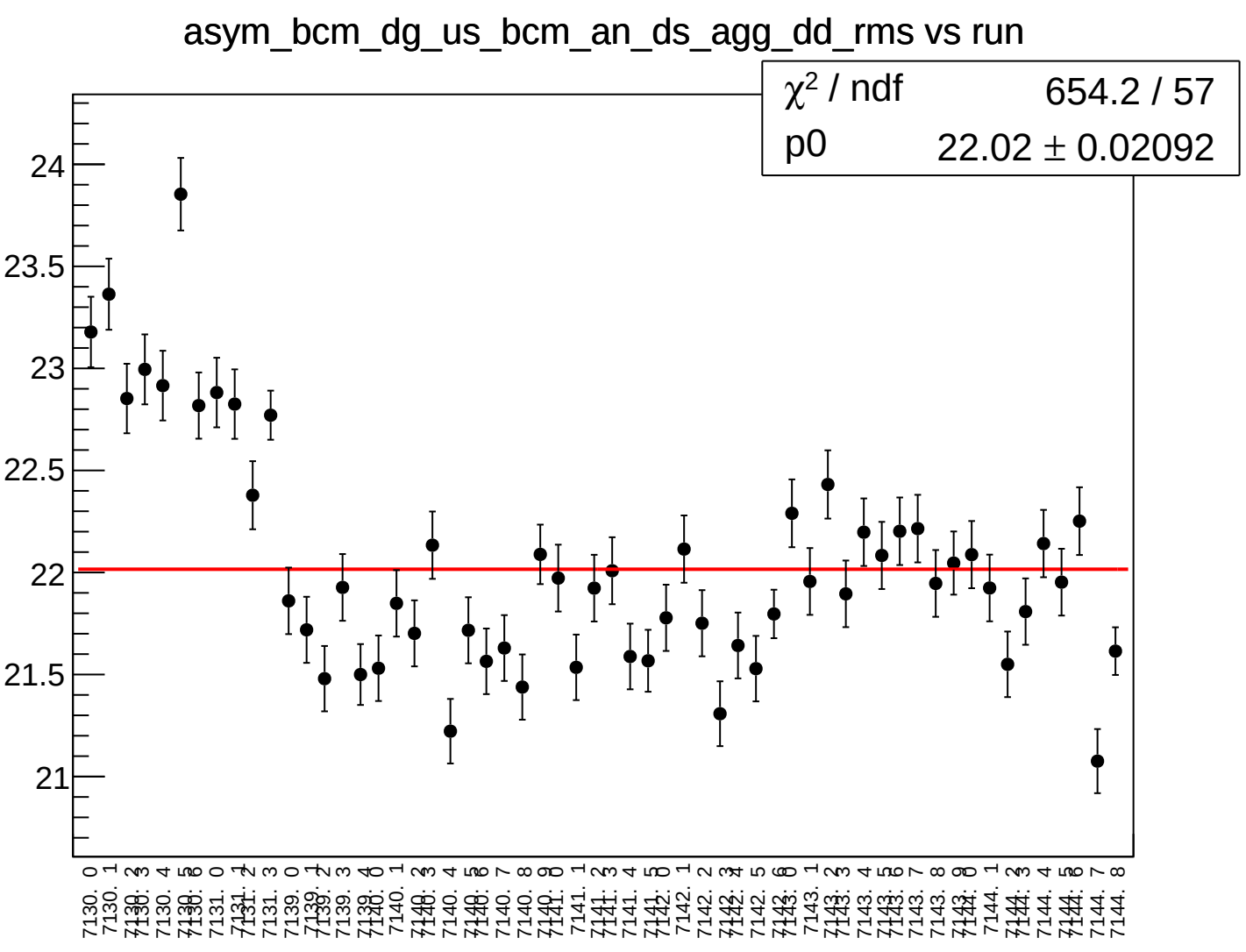

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.302 / 57
p0 −45.46 ± 282
pull
Entries 58
Mean 24.07
Std Dev 39.98

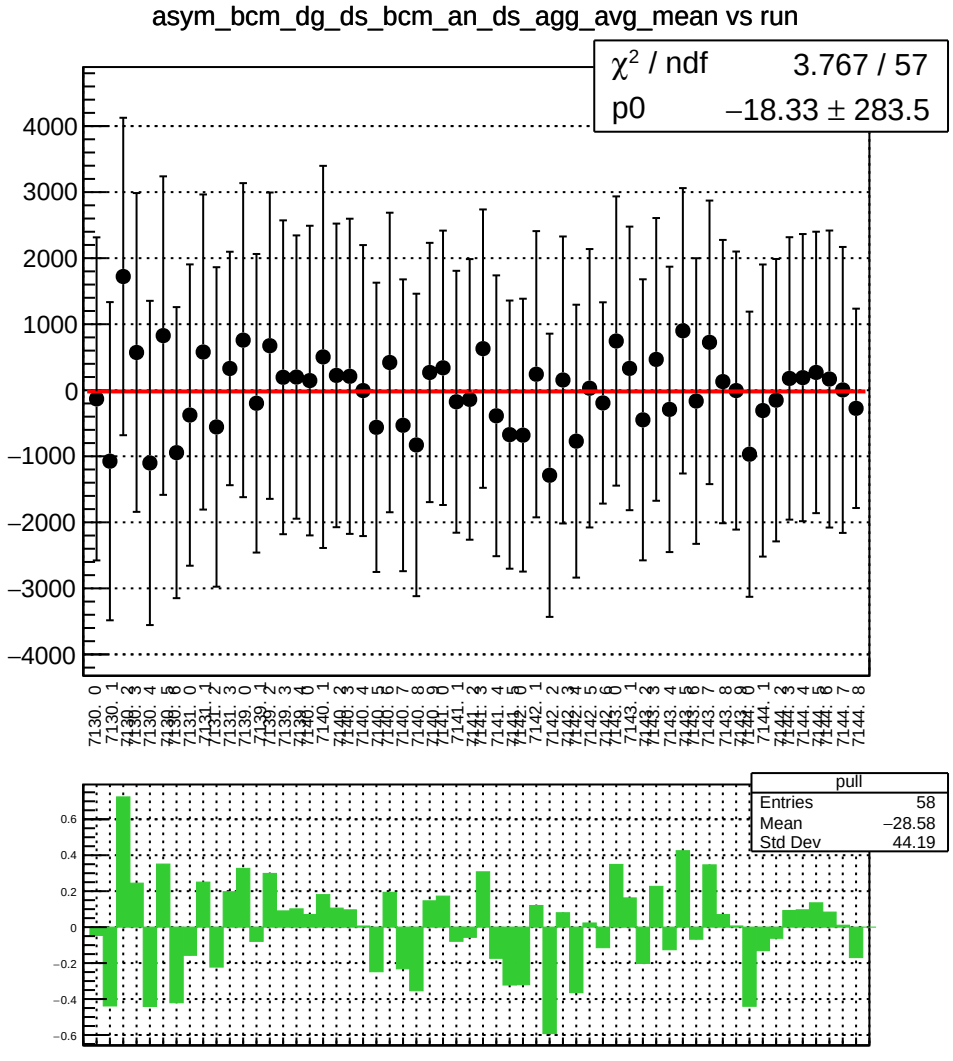

pull1D
Entries 58
Mean 0.002825
Std Dev 0.2723

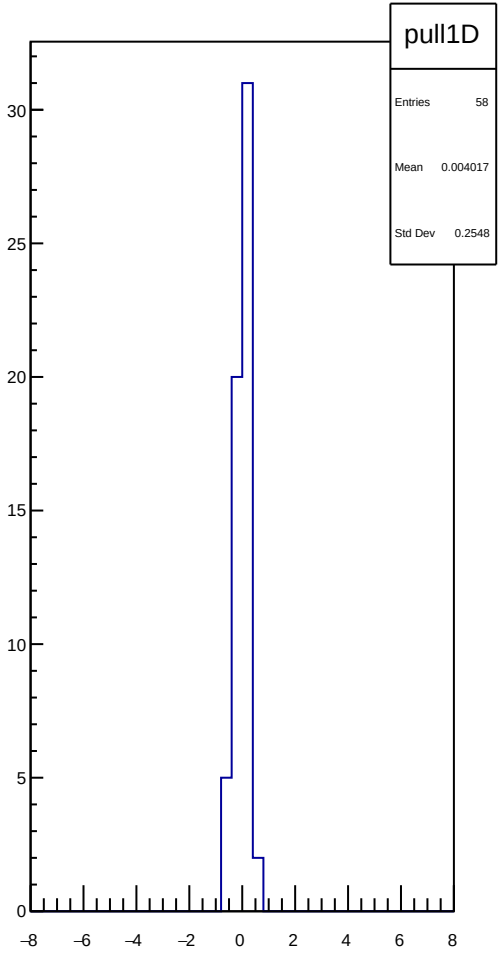

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4369 / 57
p0 209.4 ± 0.1994
280
260
240
220
200
180

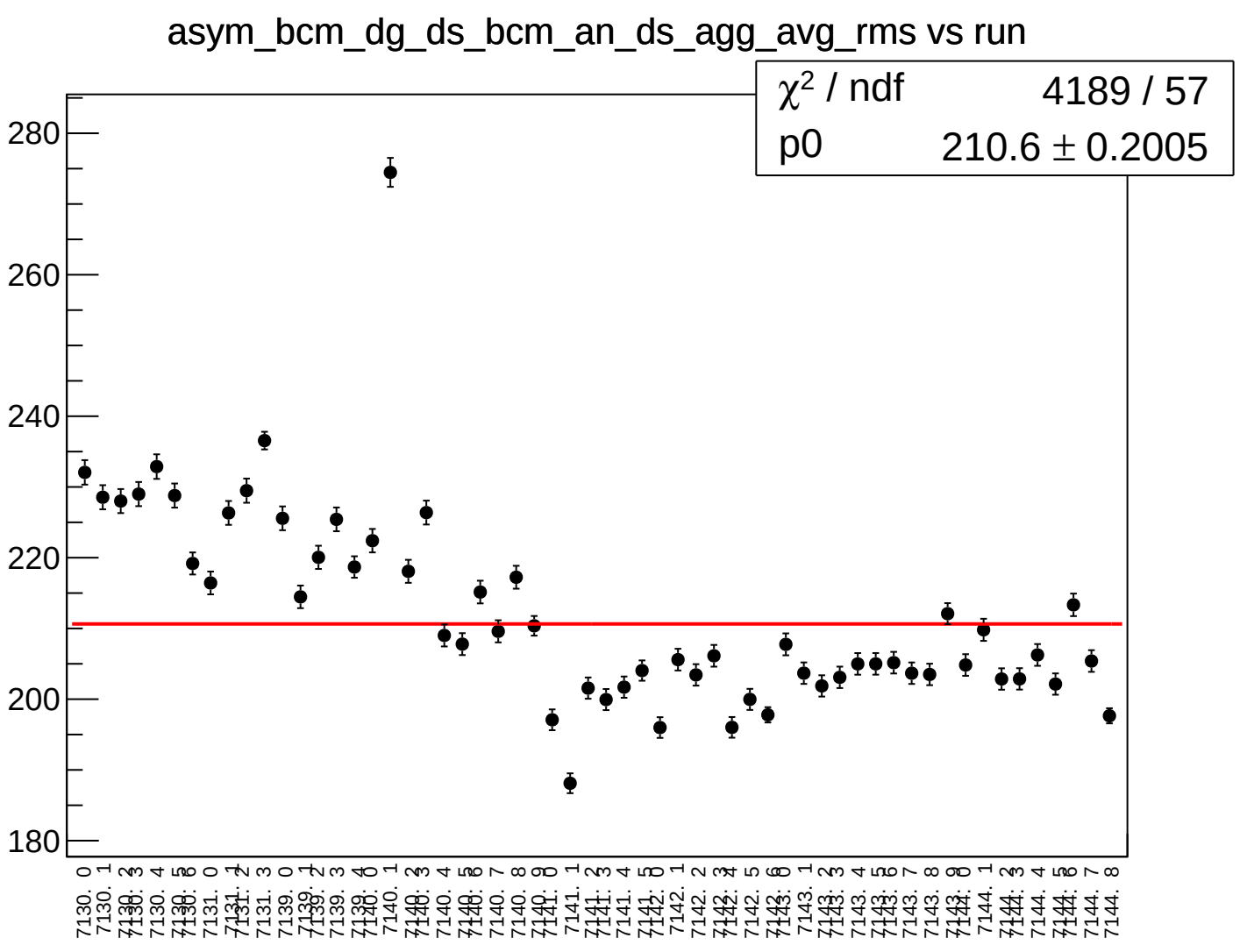

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 54.18 / 57
p0 −45.94 ± 29.59
pull
Entries 58
Mean −725.5
Std Dev 753.3

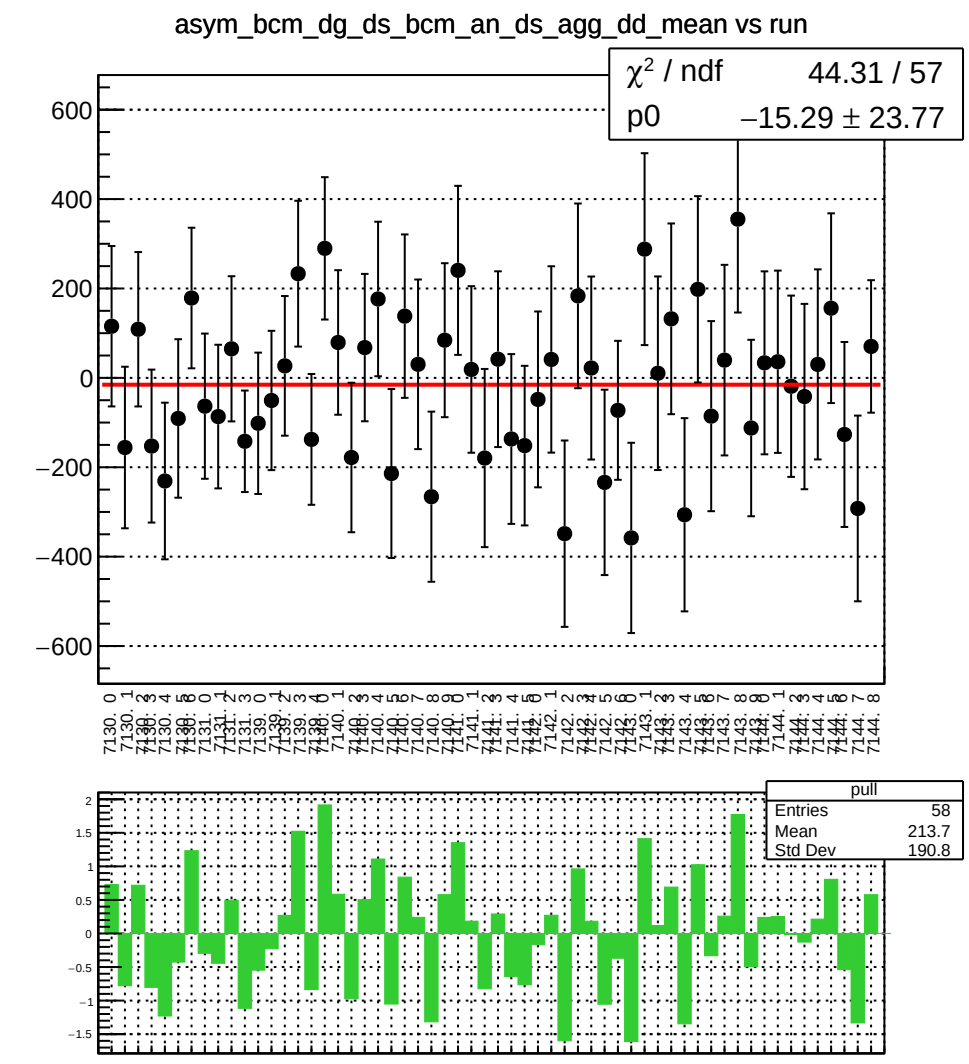

pull1D
Entries 58
Mean −0.003195
Std Dev 0.9665

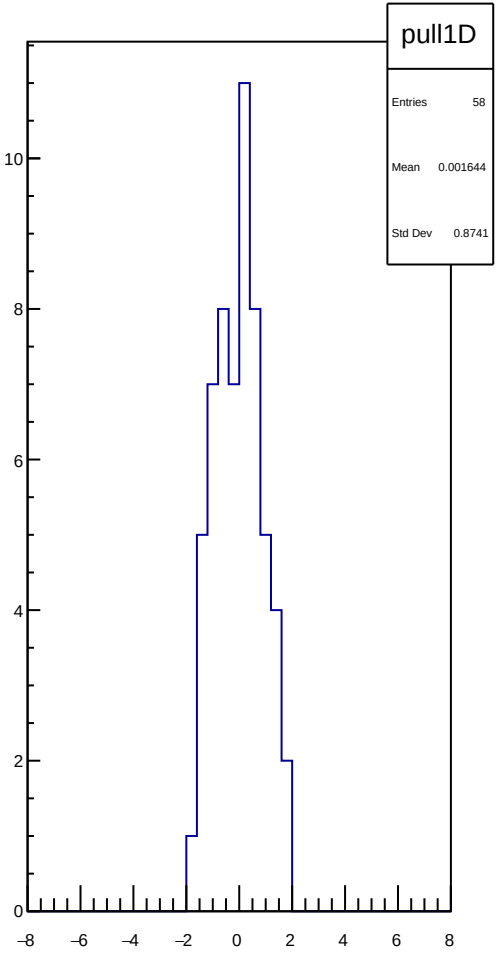

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 654.2 / 57
p0 22.02 ± 0.02092
24
23.5
23
22.5
22
21.5
21

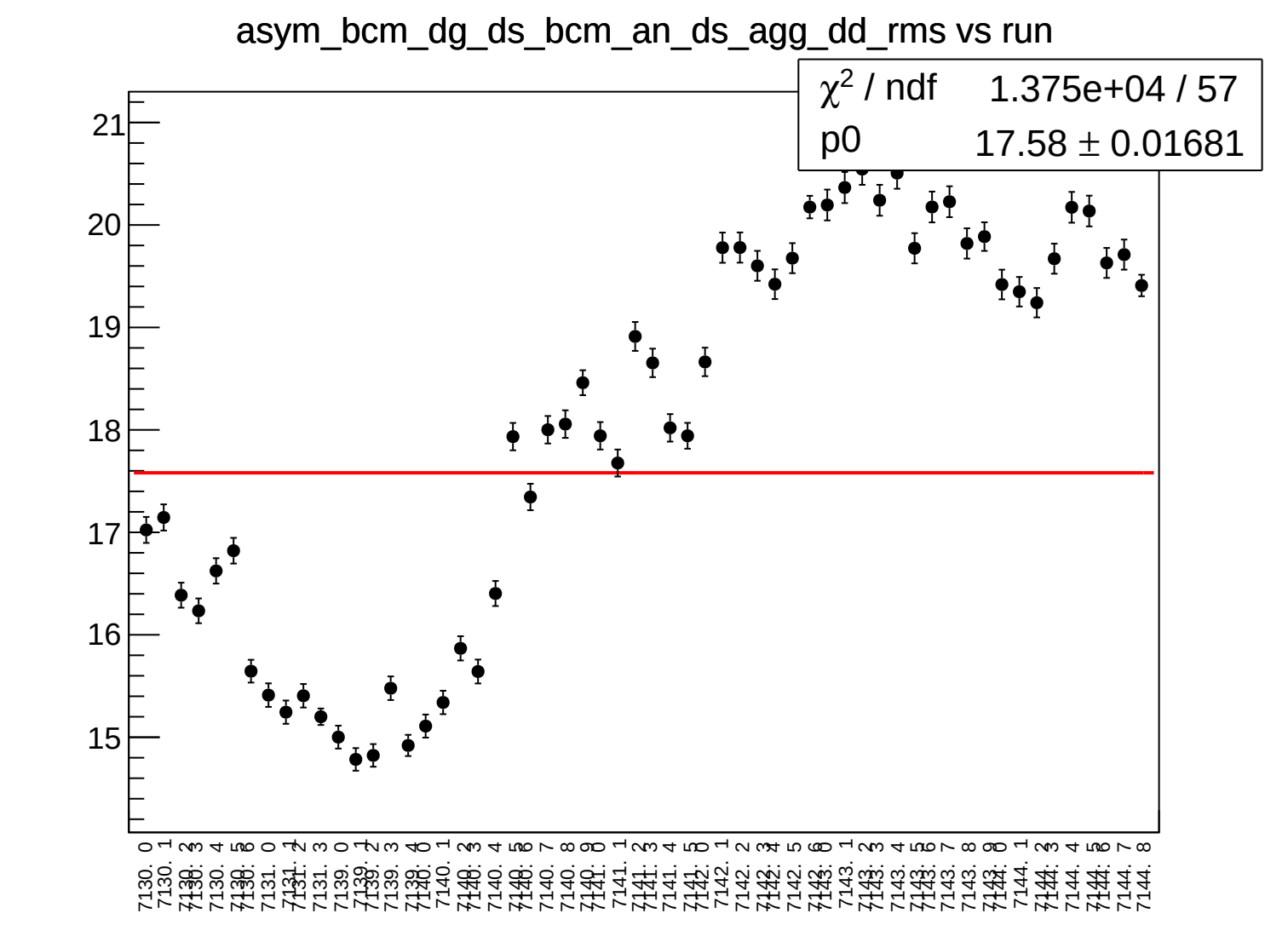

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 3.767 / 57
p0 −18.33 ± 283.5
pull
Entries 58
Mean −28.58
Std Dev 44.19

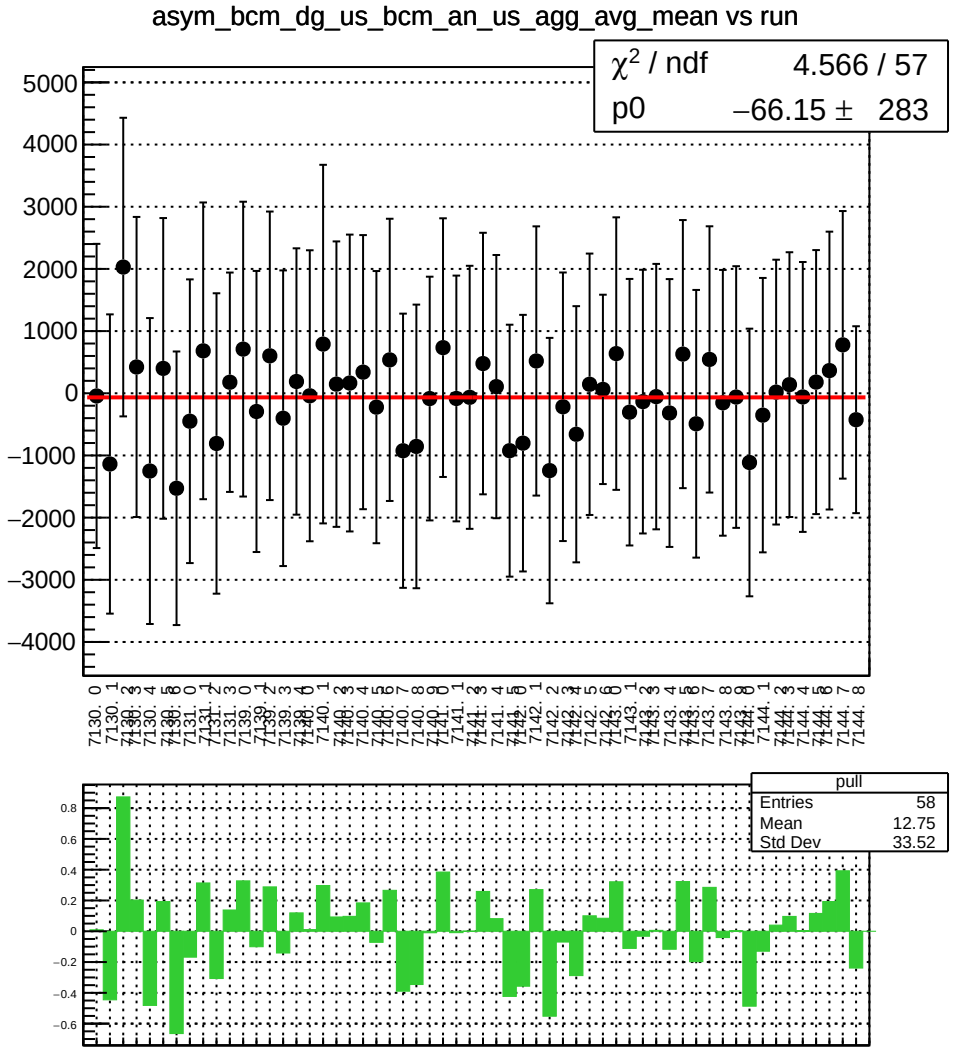

pull1D
Entries 58
Mean 0.004017
Std Dev 0.2548

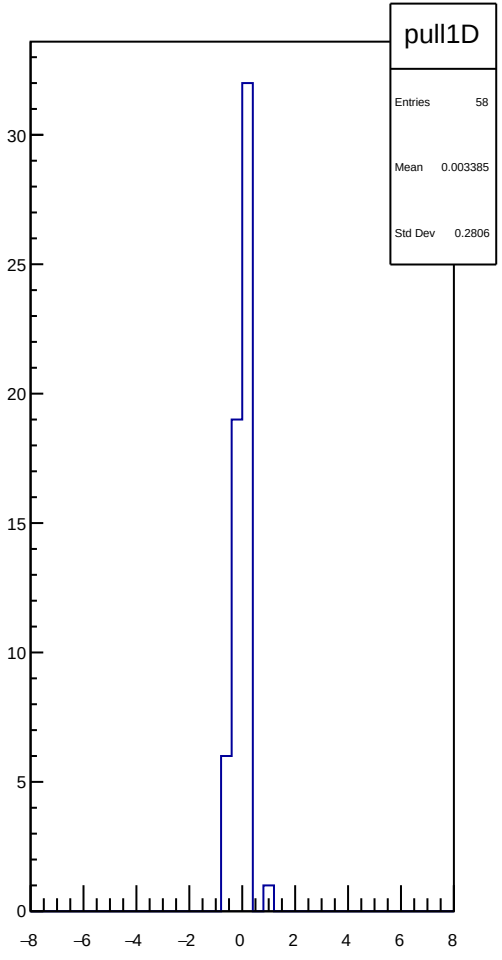

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4189 / 57
p0 210.6 ± 0.2005
280
260
240
220
200
180

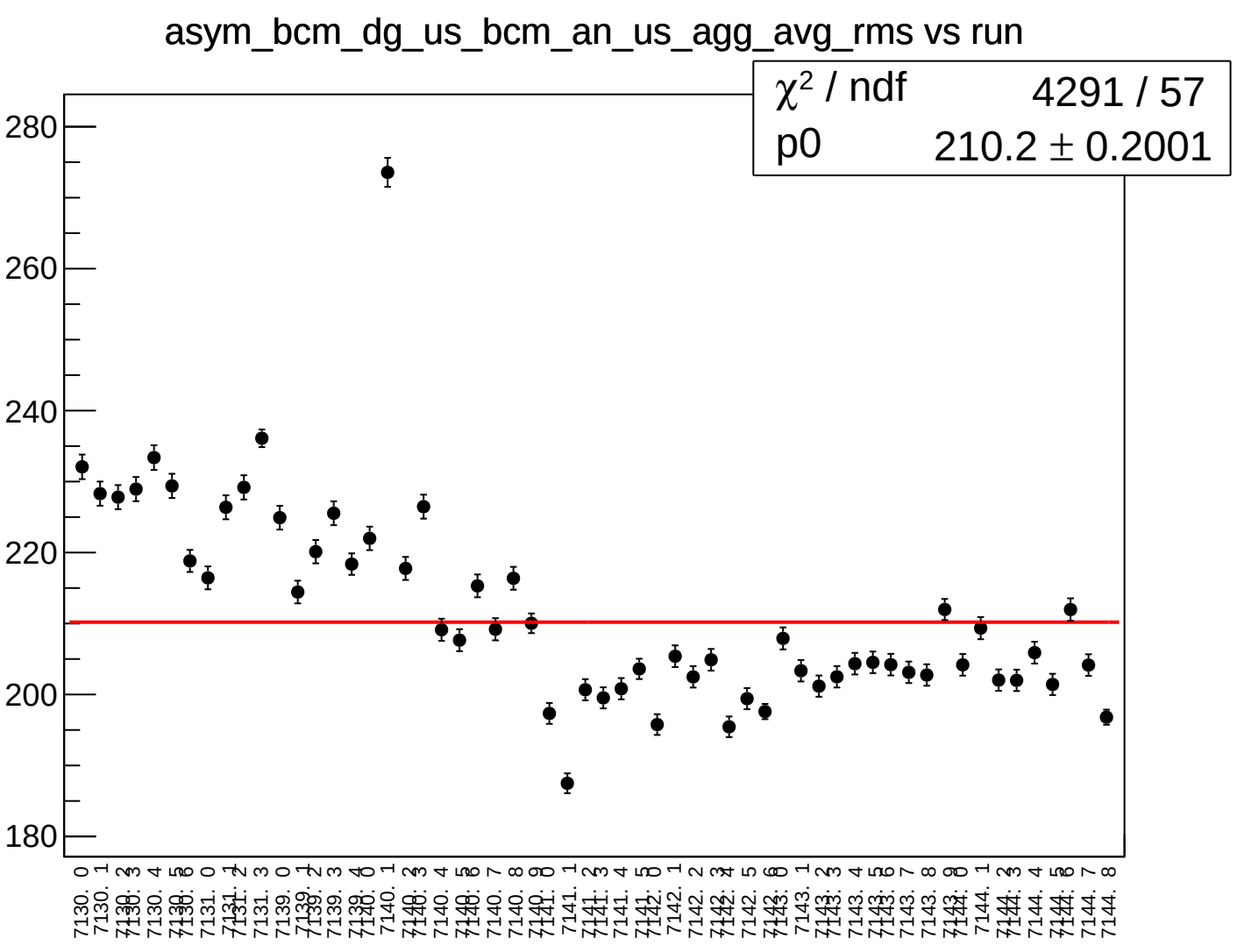

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 44.31 / 57
p0 −15.29 ± 23.77
pull
Entries 58
Mean 213.7
Std Dev 190.8

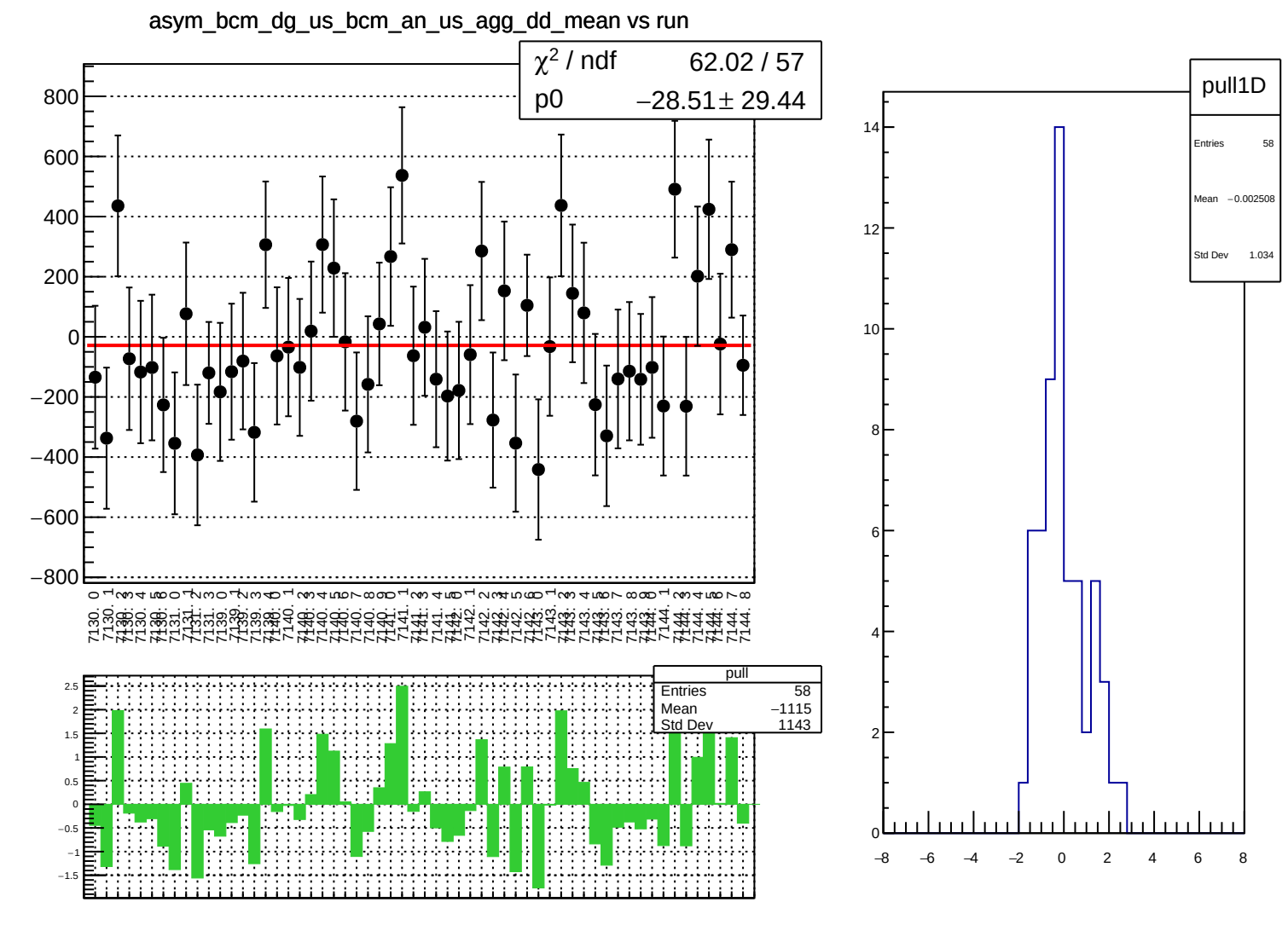

pull1D
Entries 58
Mean 0.001644
Std Dev 0.8741

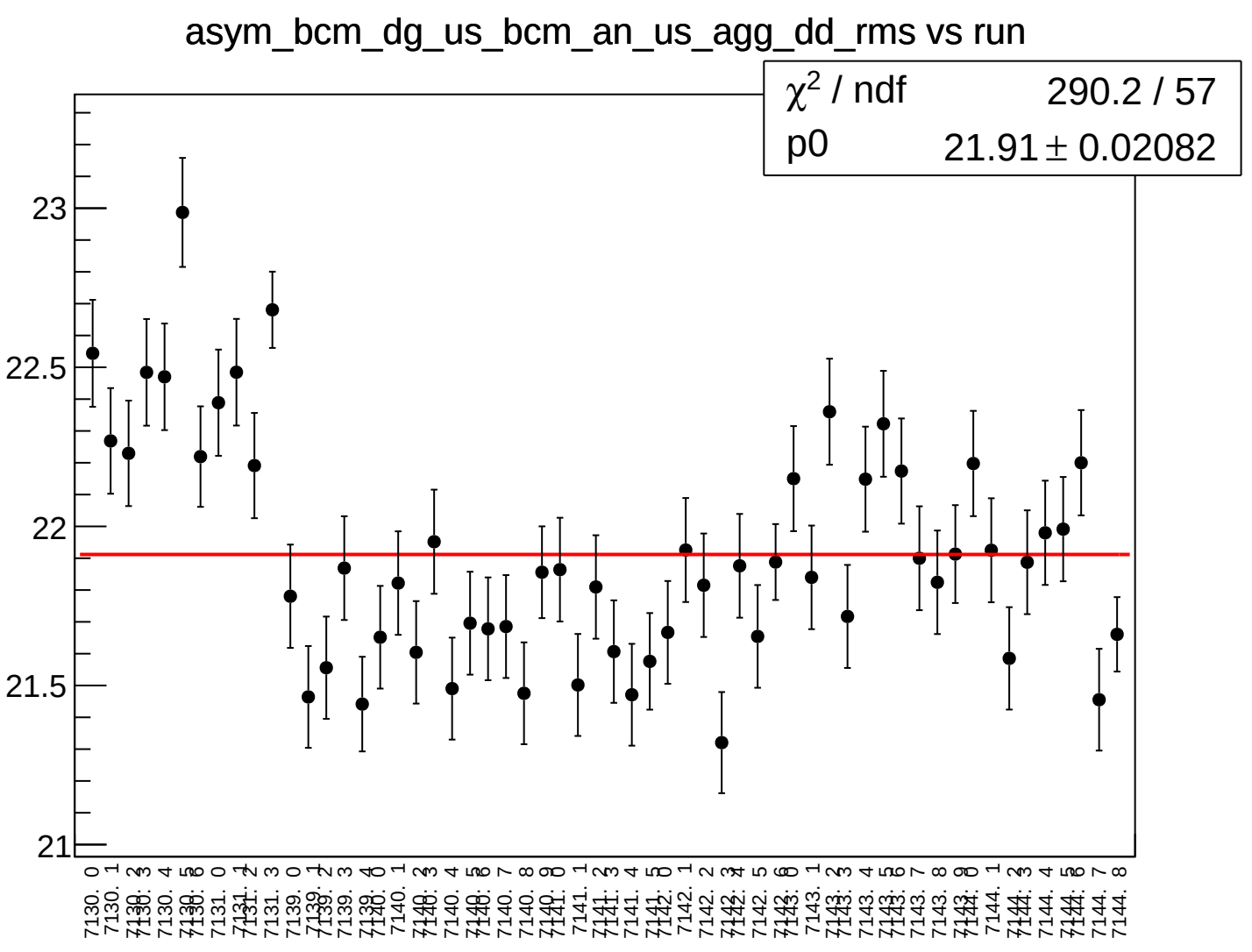

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.375e+04 / 57
p0 17.58 ± 0.01681
21
20
19
18
17
16
15

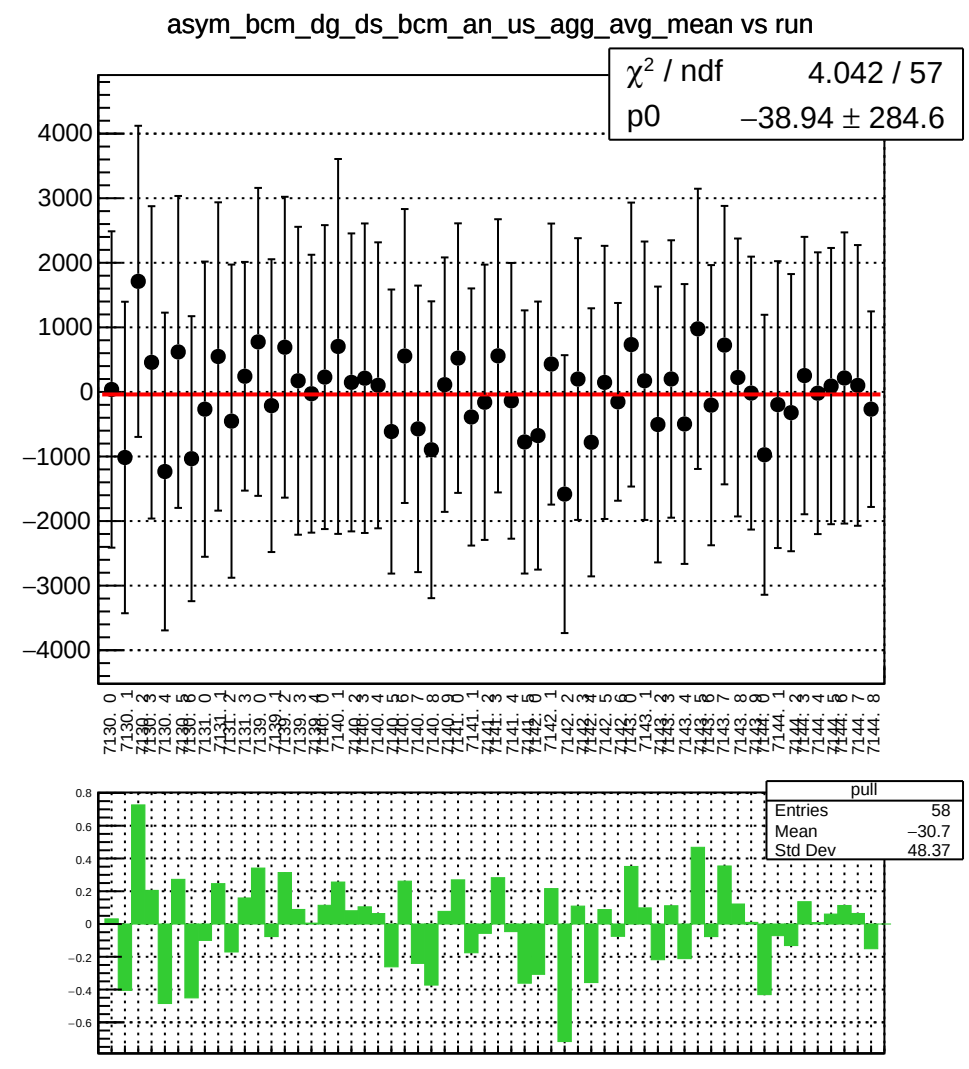

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.566 / 57
p0 −66.15 ± 283
pull
Entries 58
Mean 12.75
Std Dev 33.52

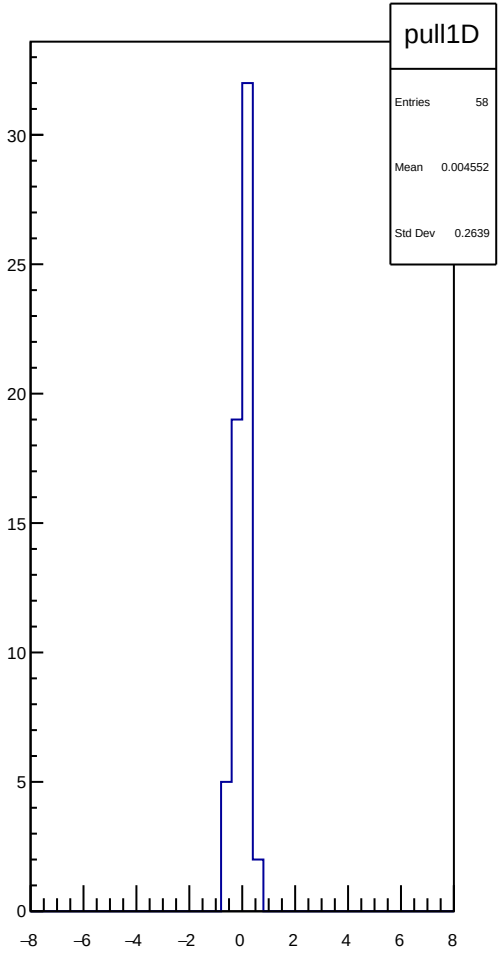

pull1D
Entries 58
Mean 0.003385
Std Dev 0.2806

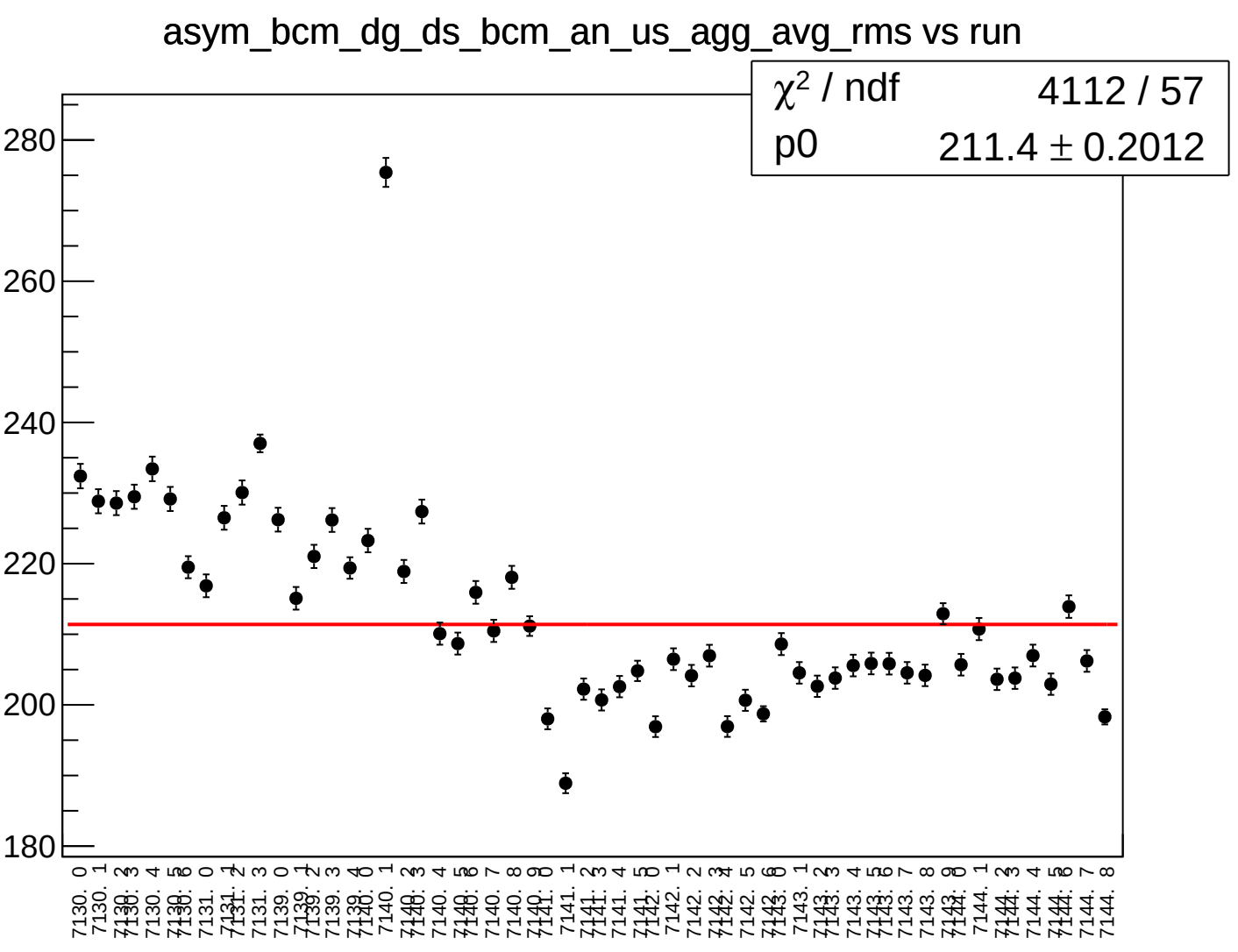

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4291 / 57
p0 210.2 ± 0.2001
280
260
240
220
200
180

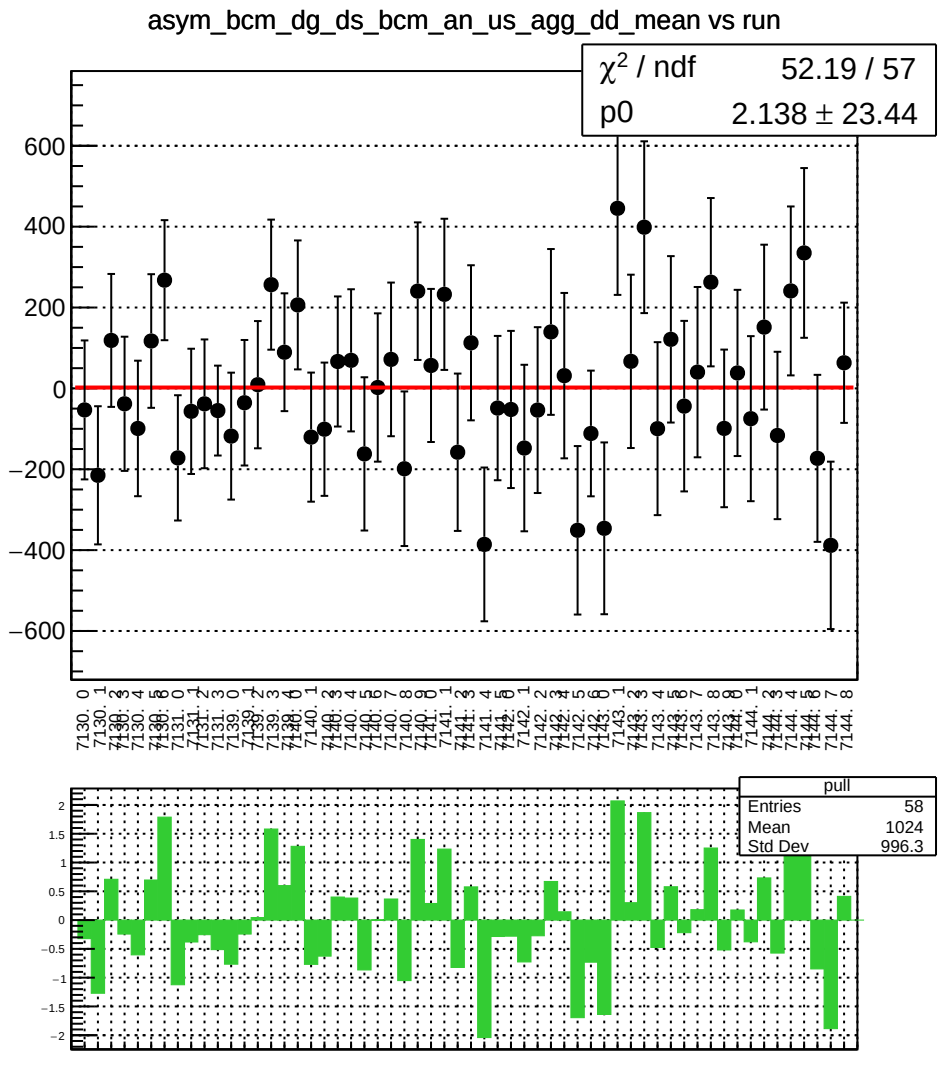

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 62.02 / 57
p0 −28.51 ± 29.44
pull
Entries 58
Mean −1115
Std Dev 1143
pull1D
Entries 58
Mean −0.002508
Std Dev 1.034

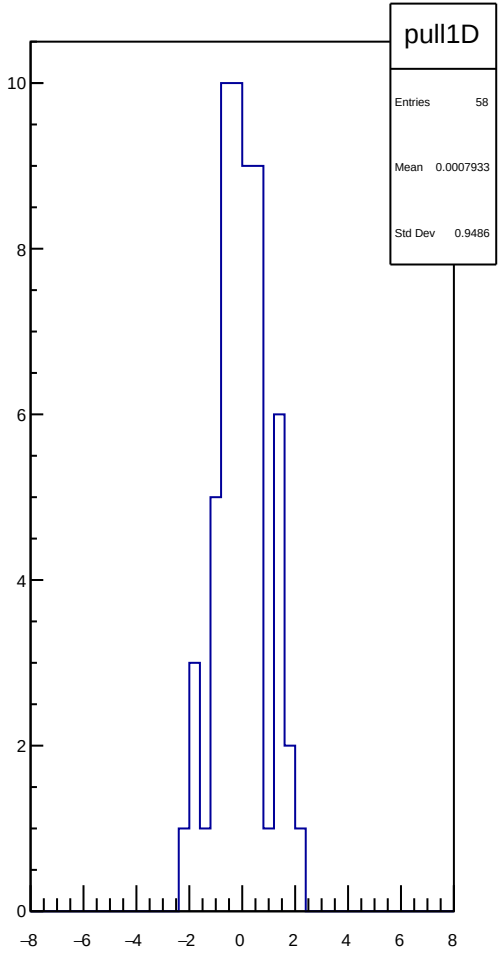

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 290.2 / 57
p0 21.91 ± 0.02082
23
22.5
22
21.5
21

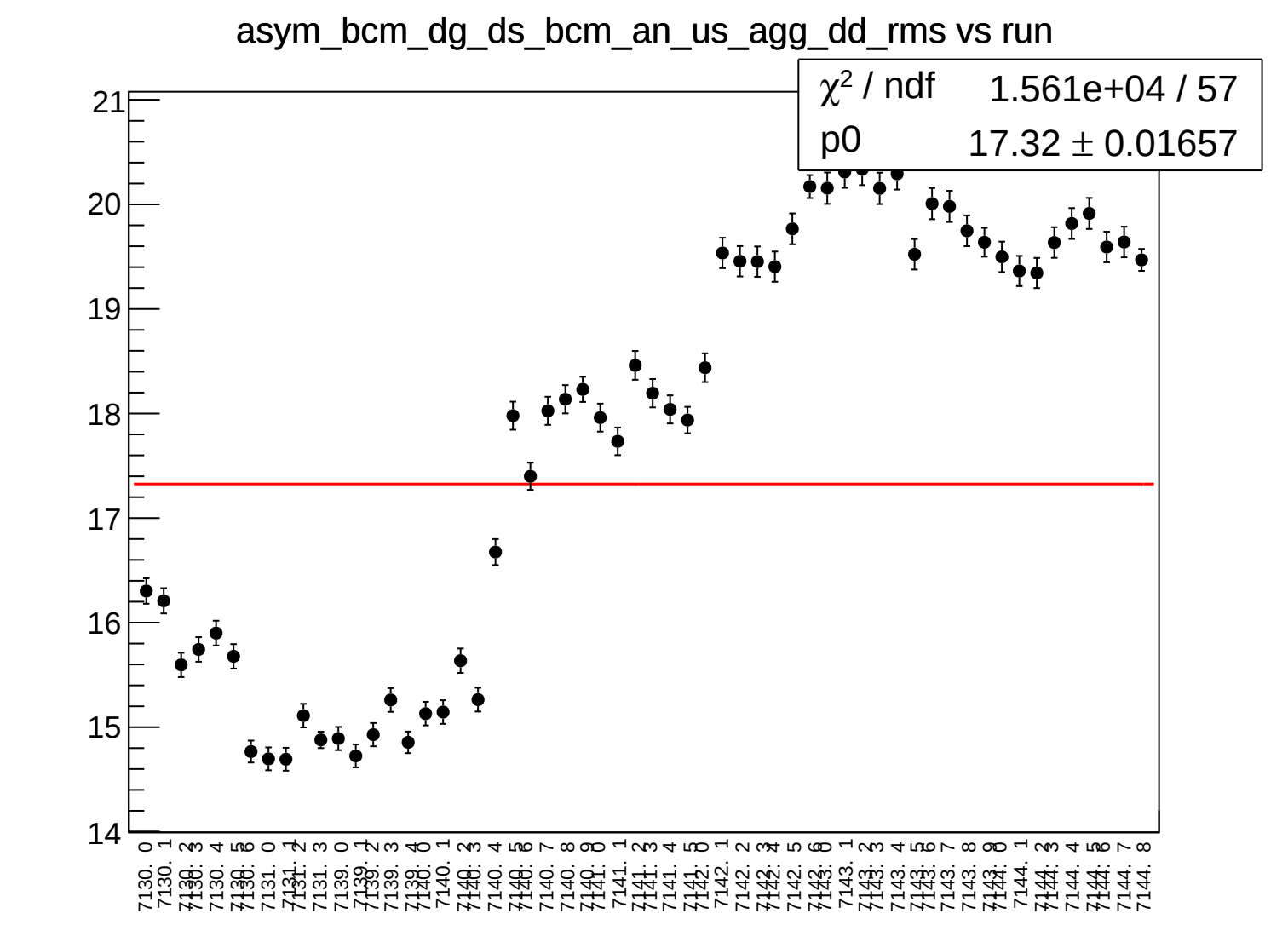

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 4.042 / 57
p0 −38.94 ± 284.6
pull
Entries 58
Mean −30.7
Std Dev 48.37

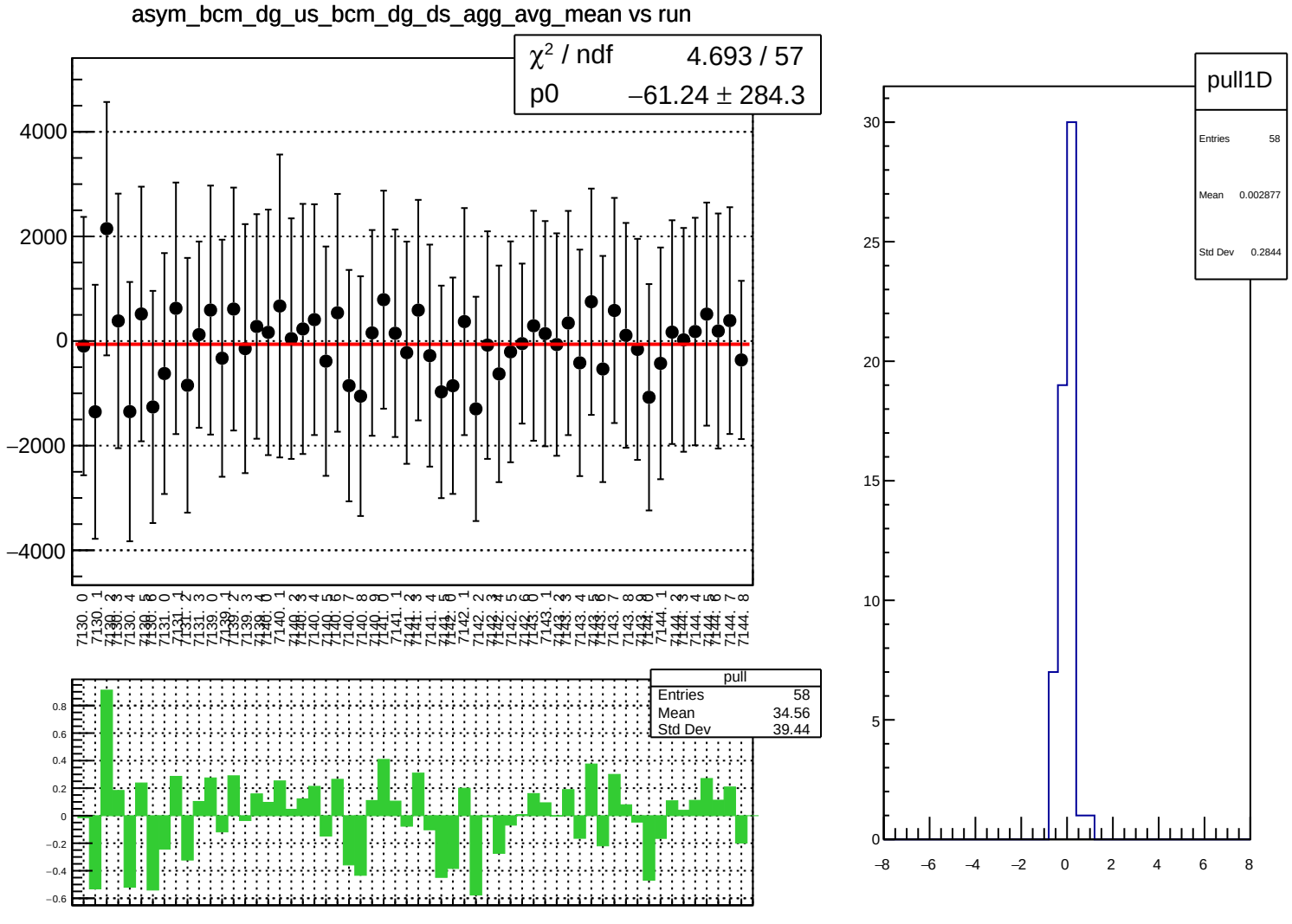

pull1D
Entries 58
Mean 0.004552
Std Dev 0.2639

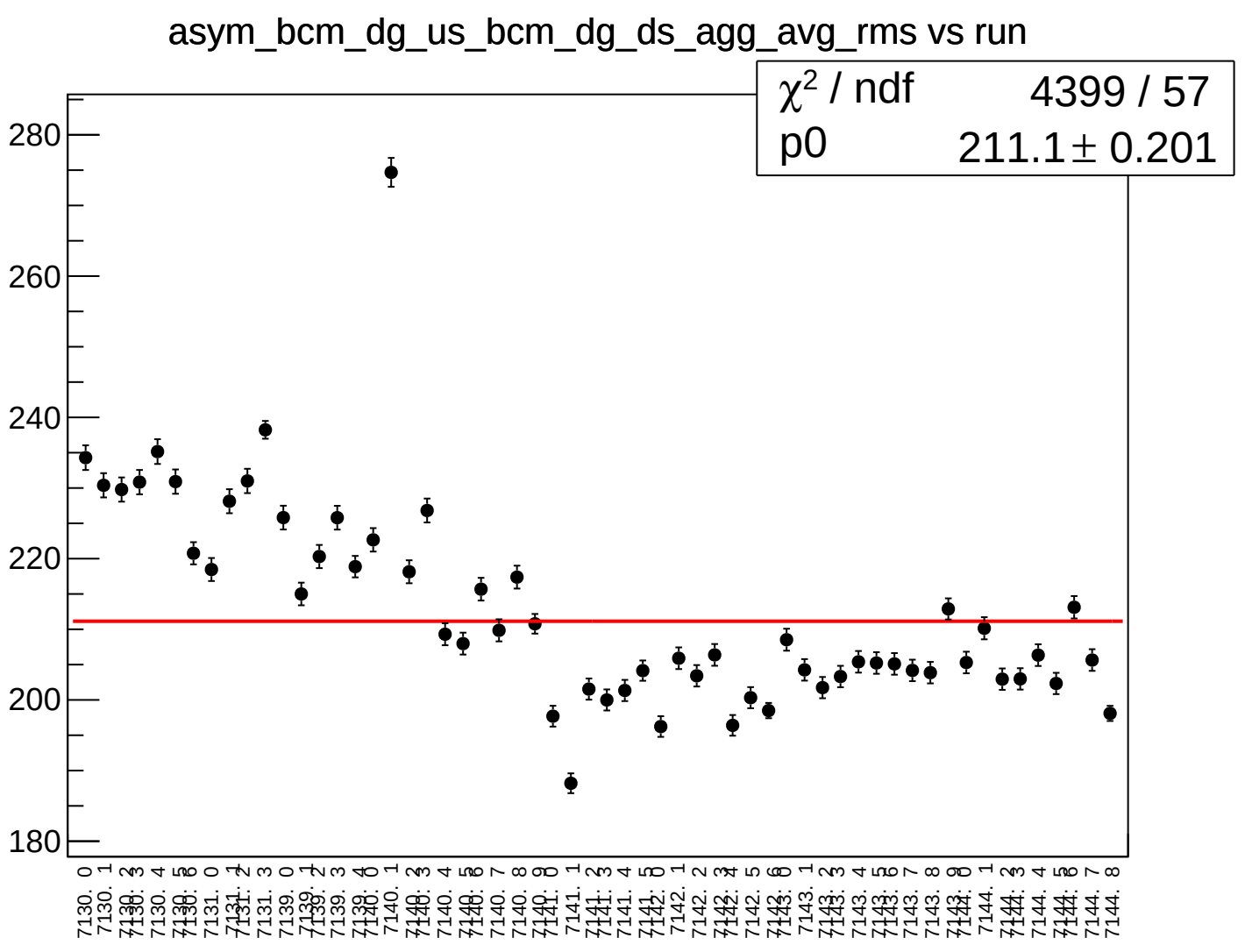

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4112 / 57
p0 211.4 ± 0.2012
280
260
240
220
200
180

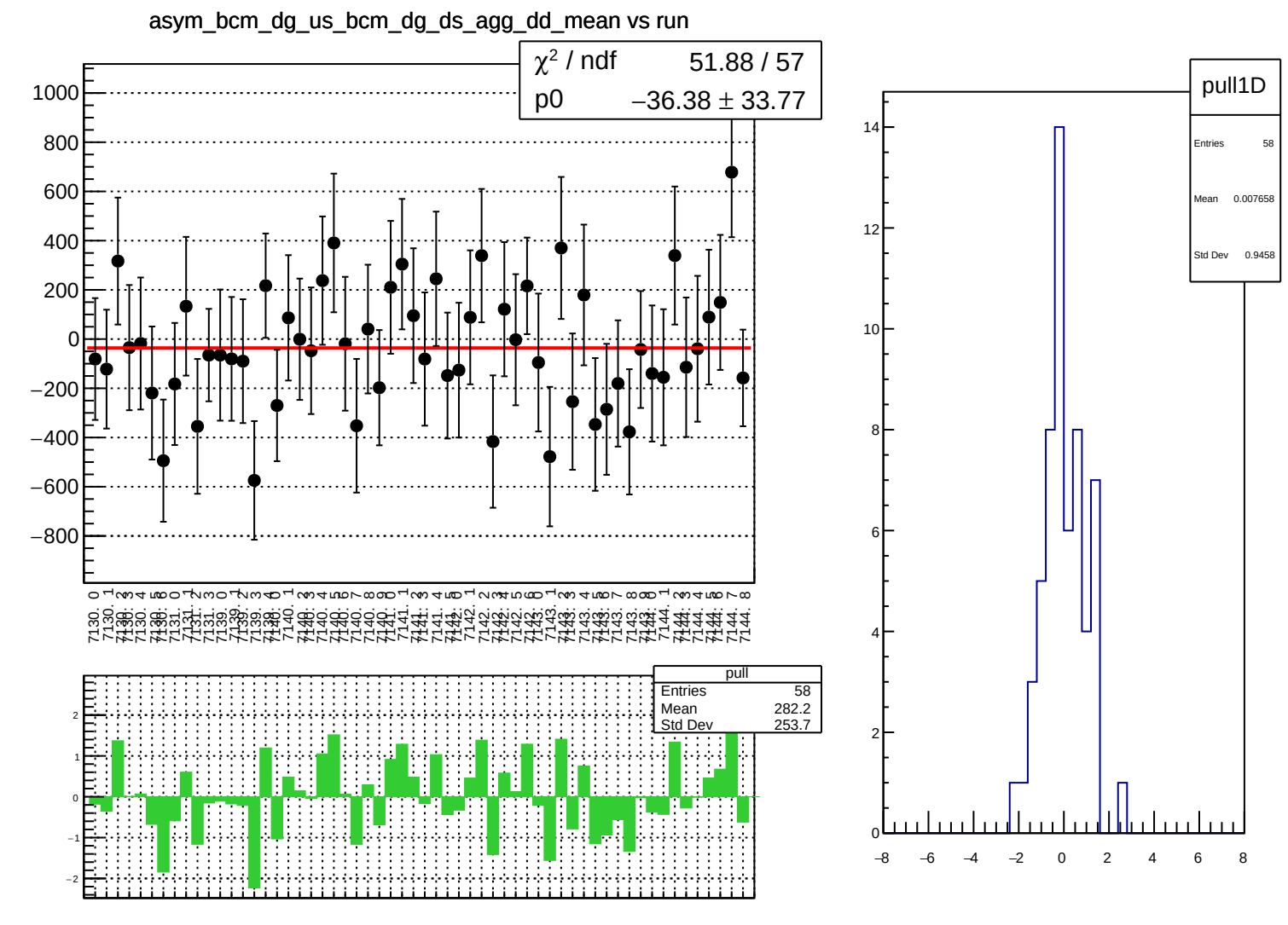

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 52.19 / 57
p0 2.138 ± 23.44
pull
Entries 58
Mean 1024
Std Dev 996.3

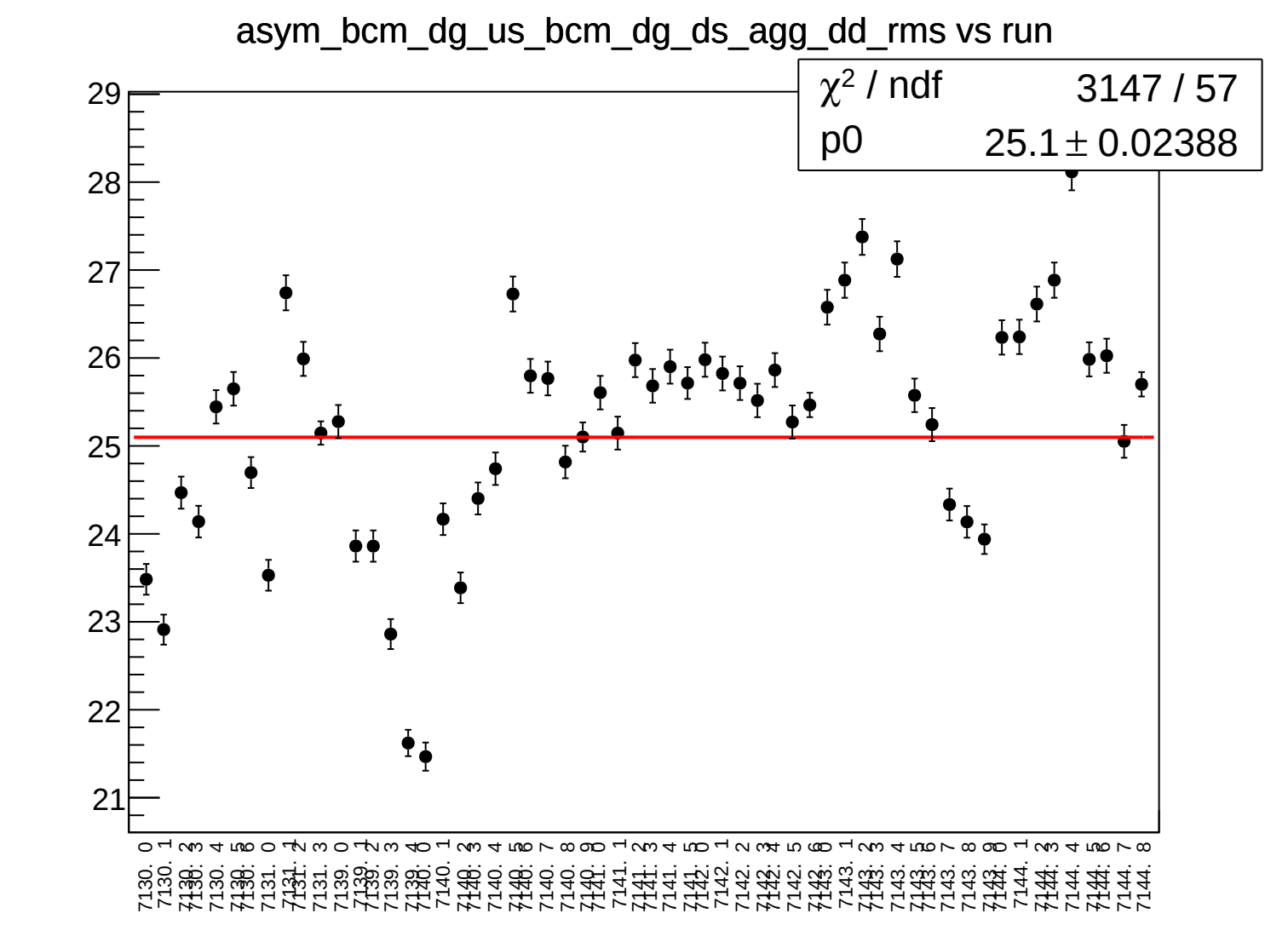

pull1D
Entries 58
Mean 0.0007933
Std Dev 0.9486

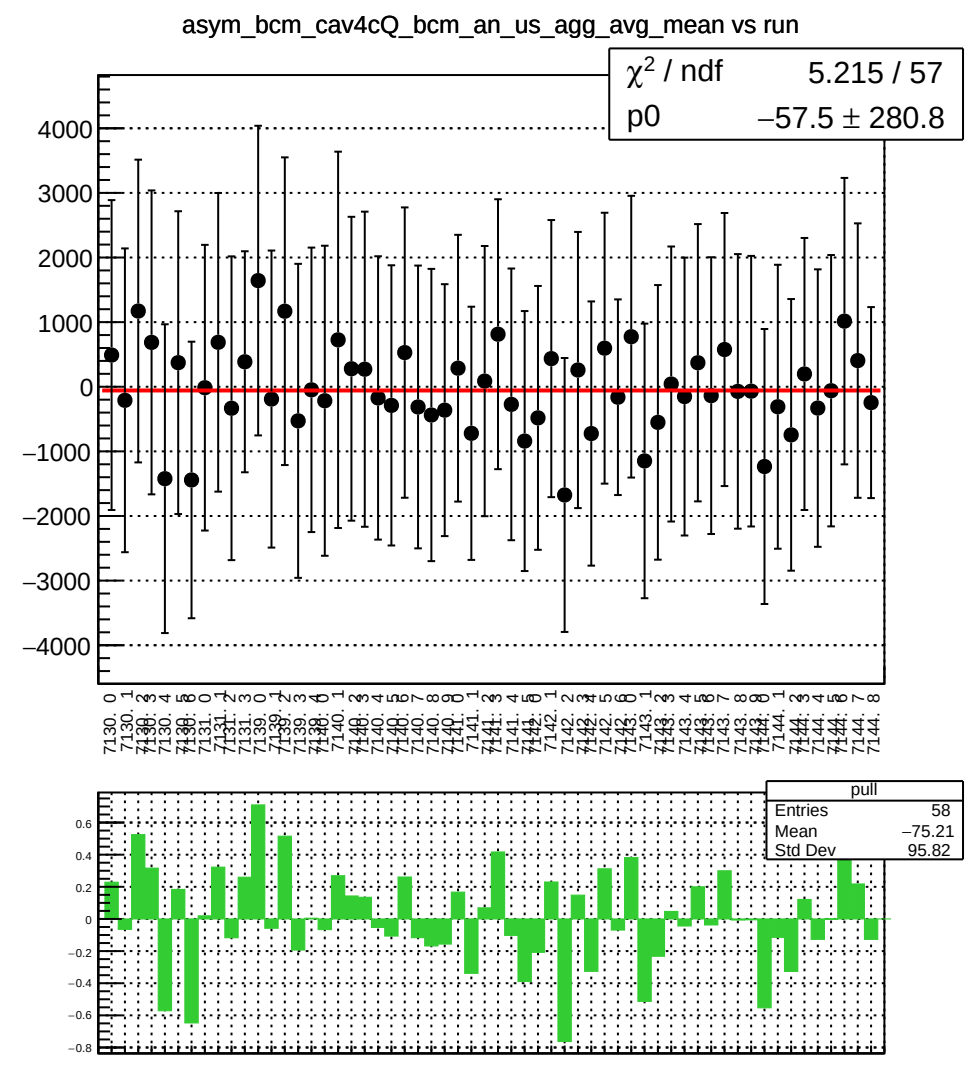

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.561e+04 / 57
p0 17.32 ± 0.01657
21
20
19
18
17
16
15
14

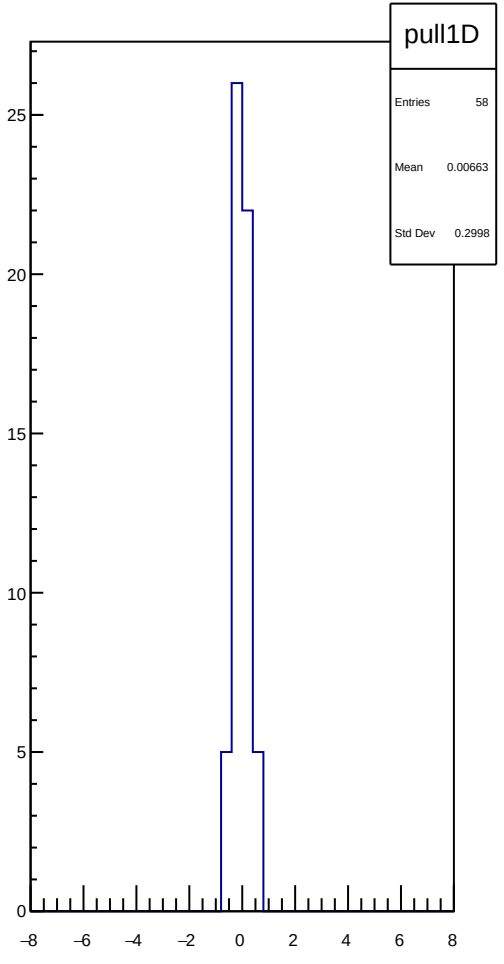

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.693 / 57
p0 −61.24 ± 284.3
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 34.56
Std Dev 39.44
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
pull1D
Entries 58
Mean 0.002877
Std Dev 0.2844
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

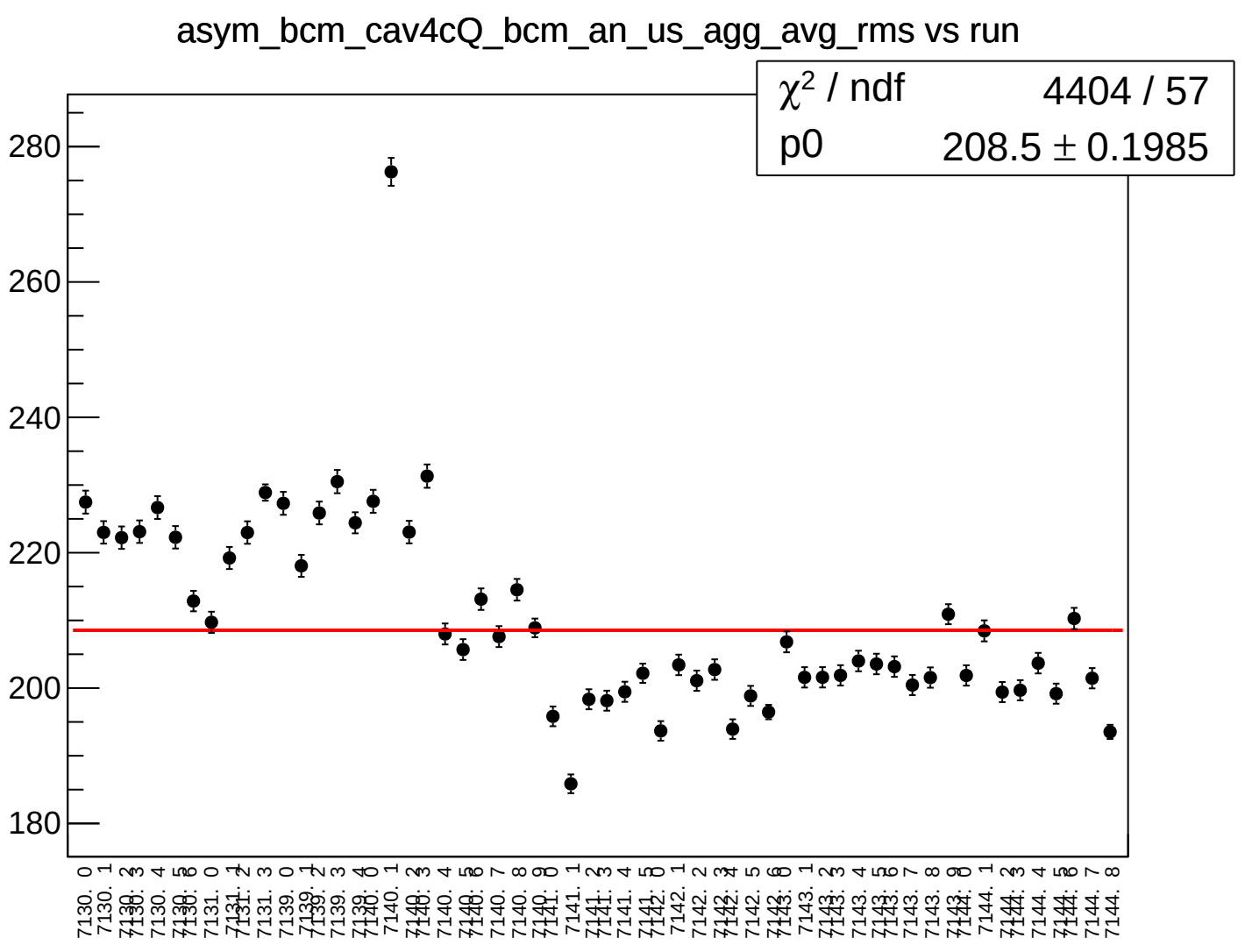

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4399 / 57
p0 211.1 ± 0.201
280
260
240
220
200
180

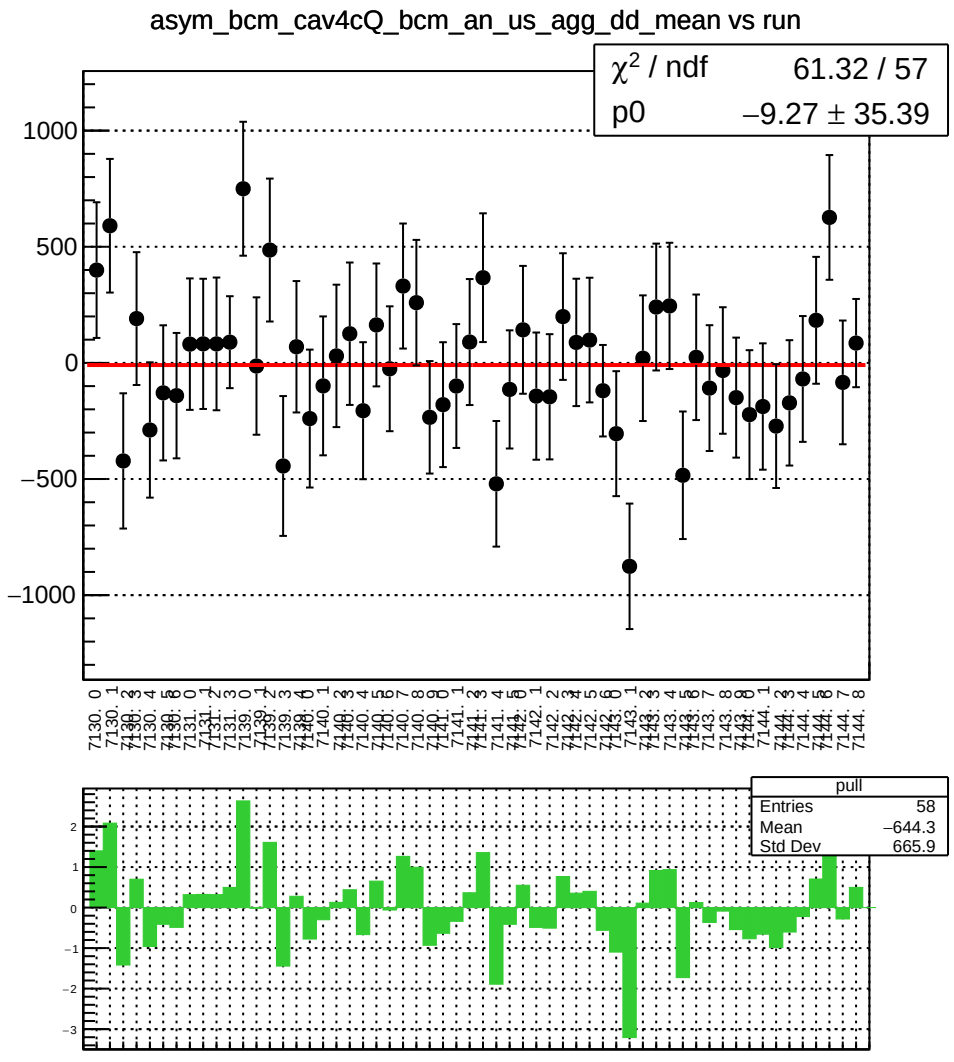

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 51.88 / 57
p0 −36.38 ± 33.77
pull
Entries 58
Mean 282.2
Std Dev 253.7
pull1D
Entries 58
Mean 0.007658
Std Dev 0.9458

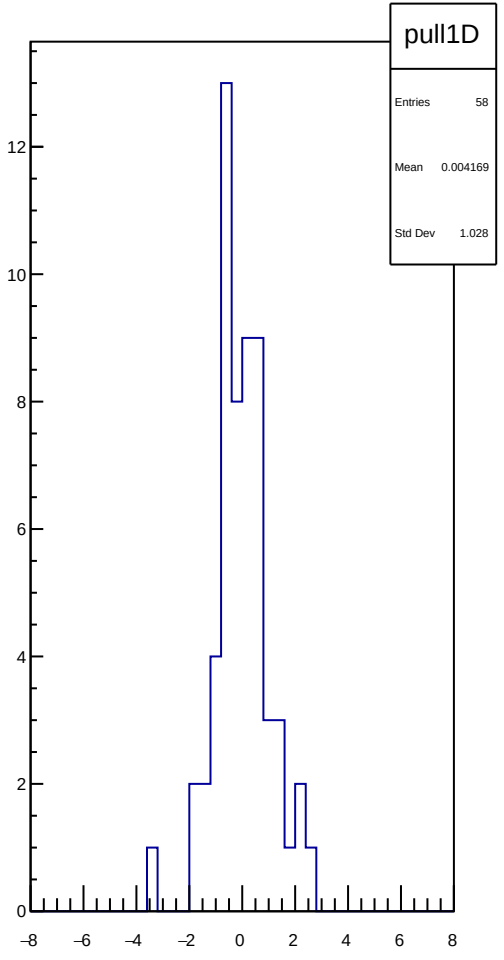

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3147 / 57
p0 25.1 ± 0.02388
29
28
27
26
25
24
23
22
21

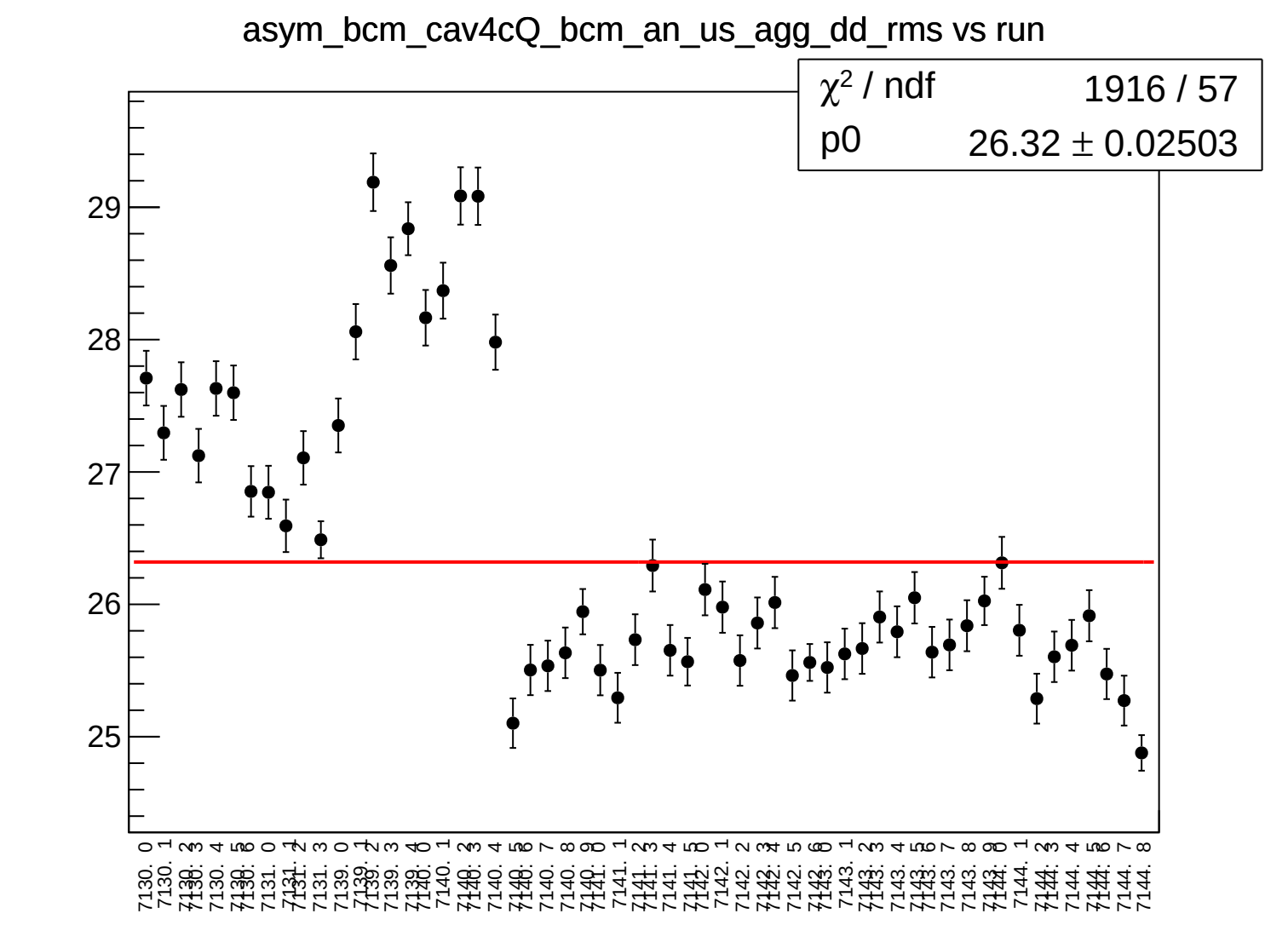

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 5.215 / 57
p0 −57.5 ± 280.8
pull
Entries 58
Mean −75.21
Std Dev 95.82

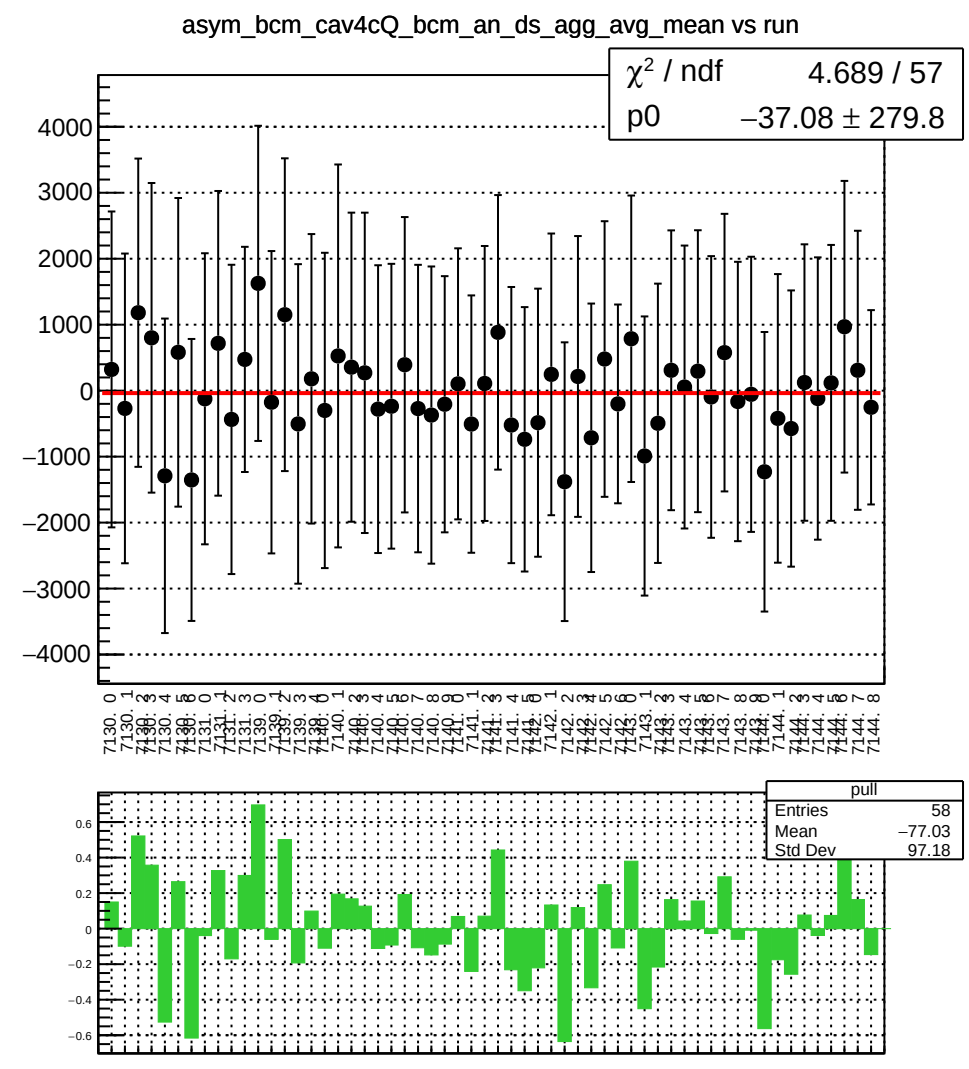

pull1D
Entries 58
Mean 0.00663
Std Dev 0.2998

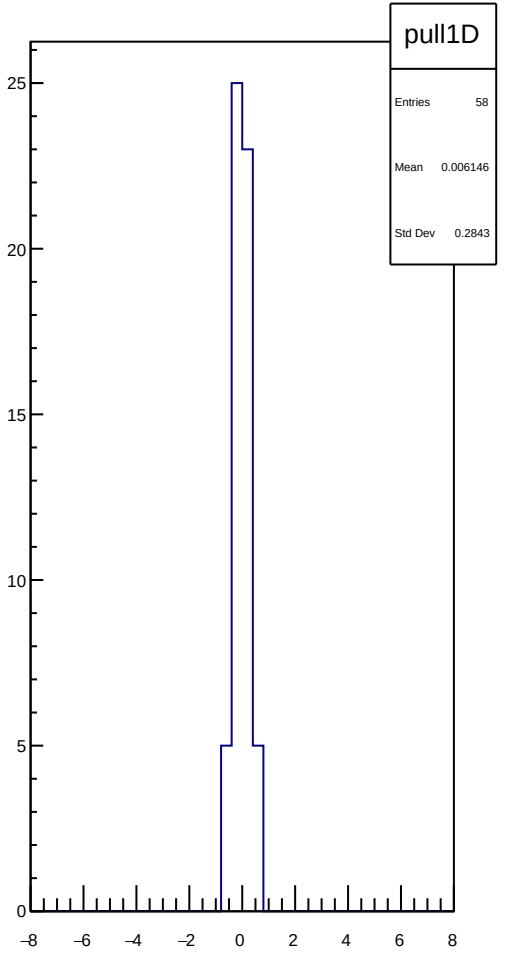

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4404 / 57
p0 208.5 ± 0.1985
280
260
240
220
200
180

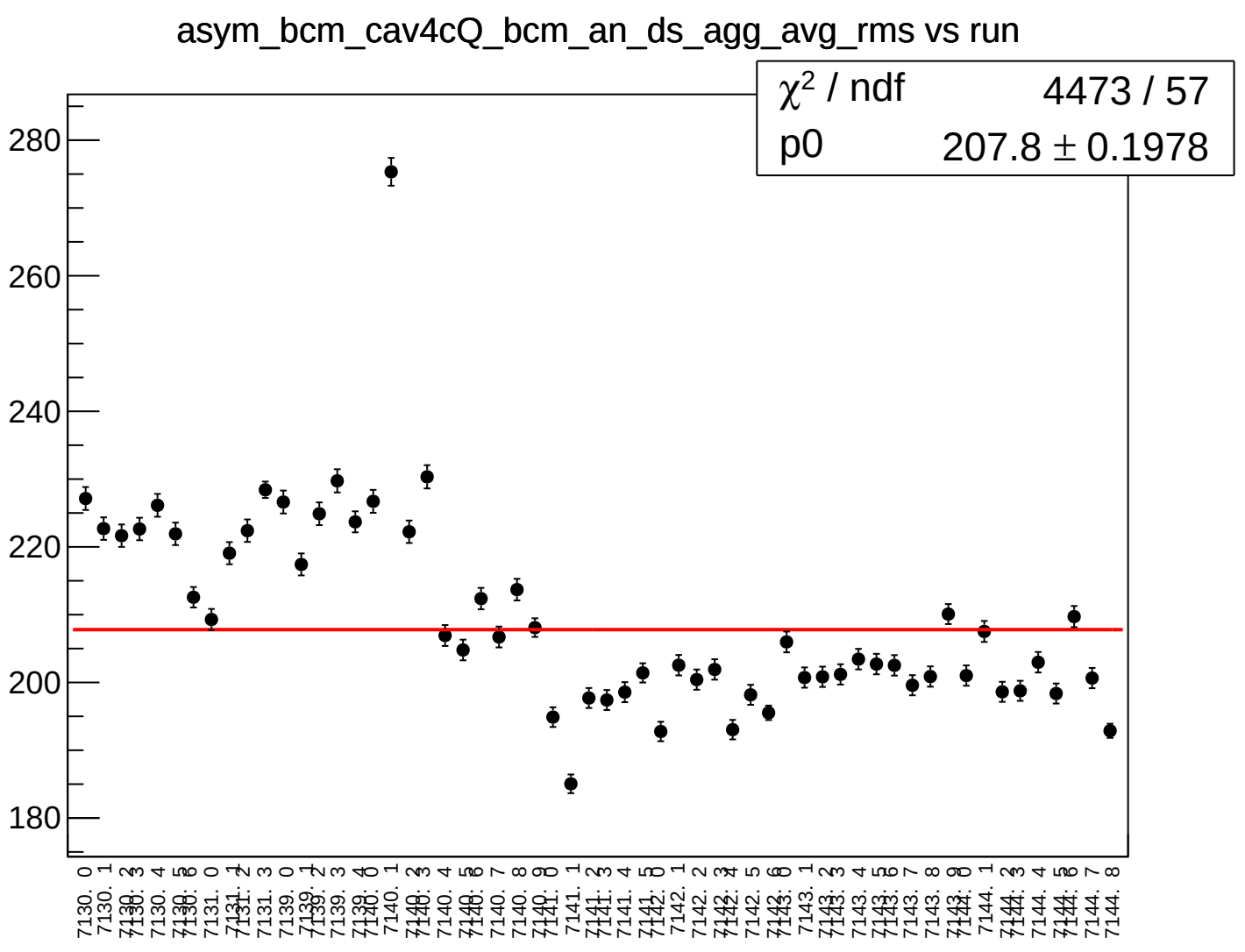

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 61.32 / 57
p0 −9.27 ± 35.39
1000
500
0
−500
−1000
pull
Entries 58
Mean −644.3
Std Dev 665.9
2
1
0
−1
−2
−3

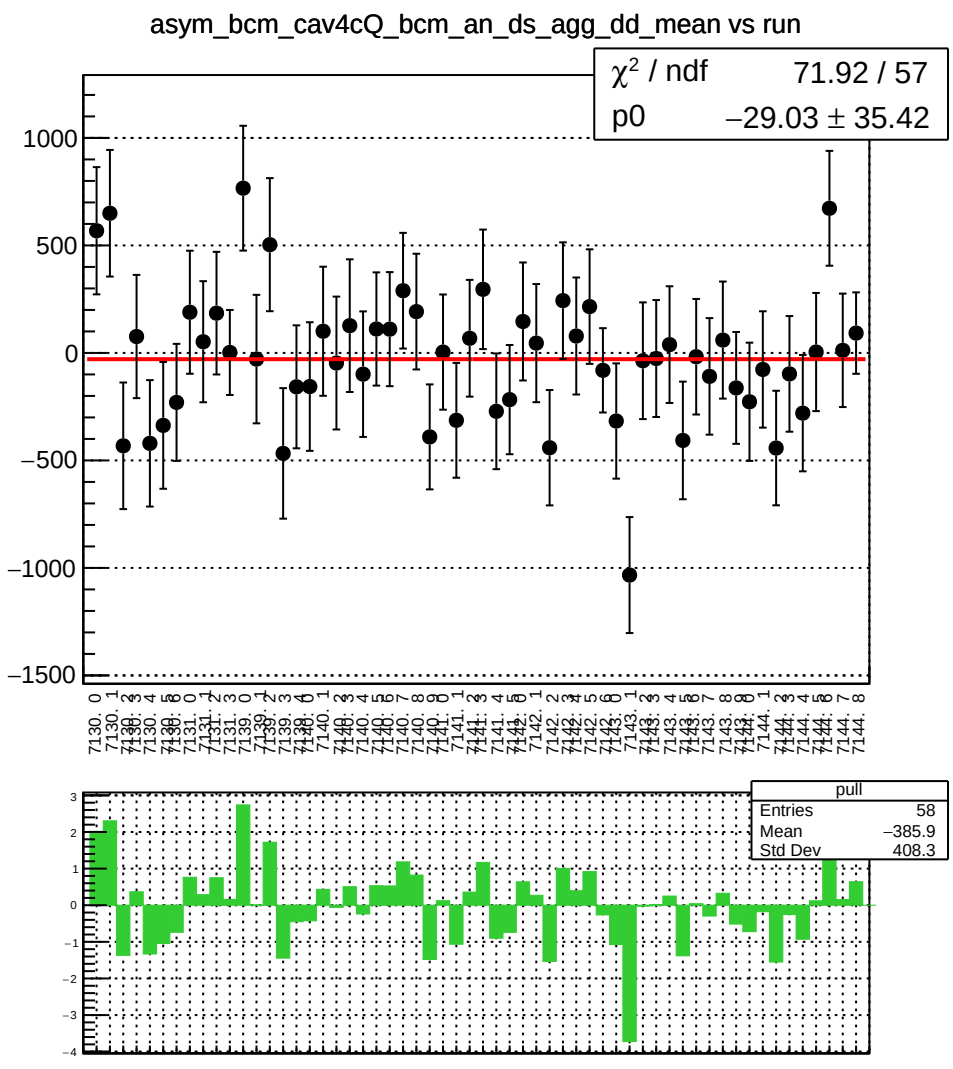

pull1D
Entries 58
Mean 0.004169
Std Dev 1.028
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

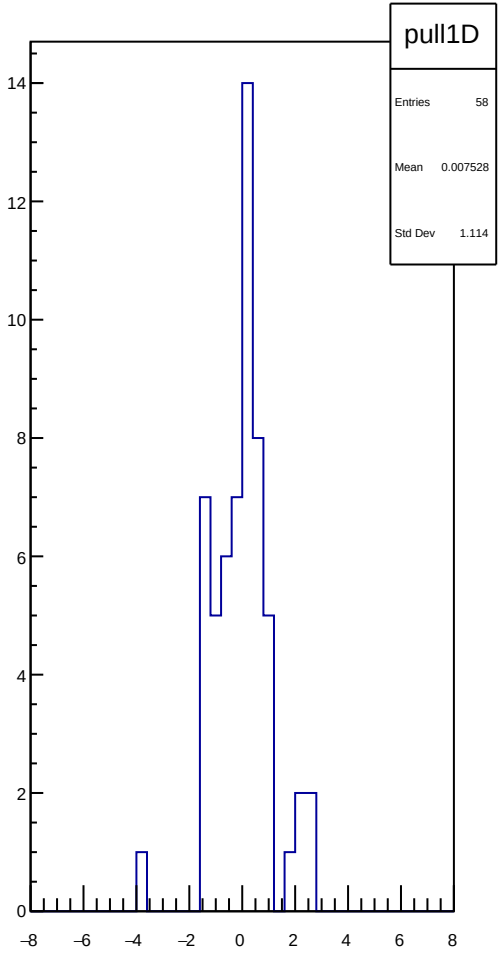

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1916 / 57
p0 26.32 ± 0.02503
29
28
27
26
25

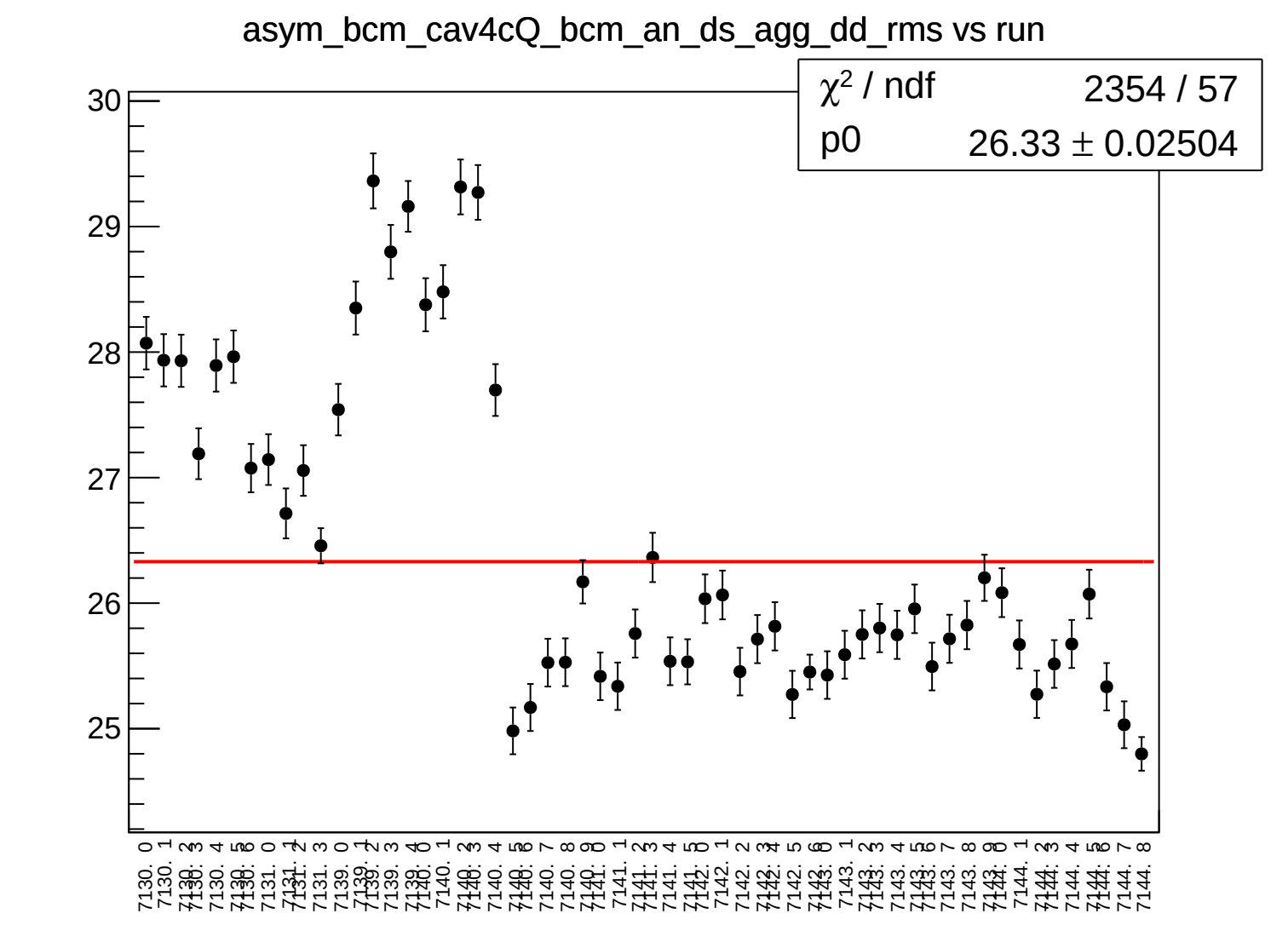

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 4.689 / 57
p0 −37.08 ± 279.8
pull
Entries 58
Mean −77.03
Std Dev 97.18

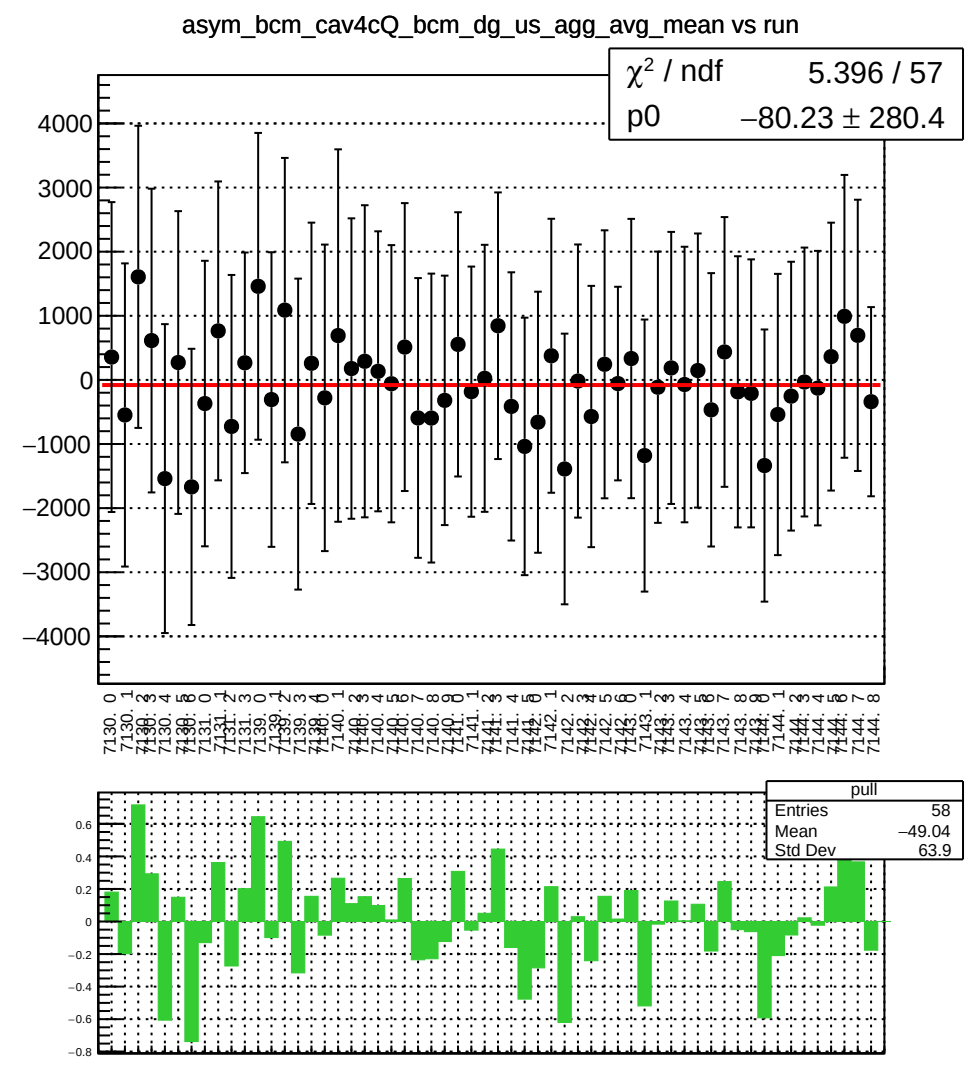

pull1D
Entries 58
Mean 0.006146
Std Dev 0.2843

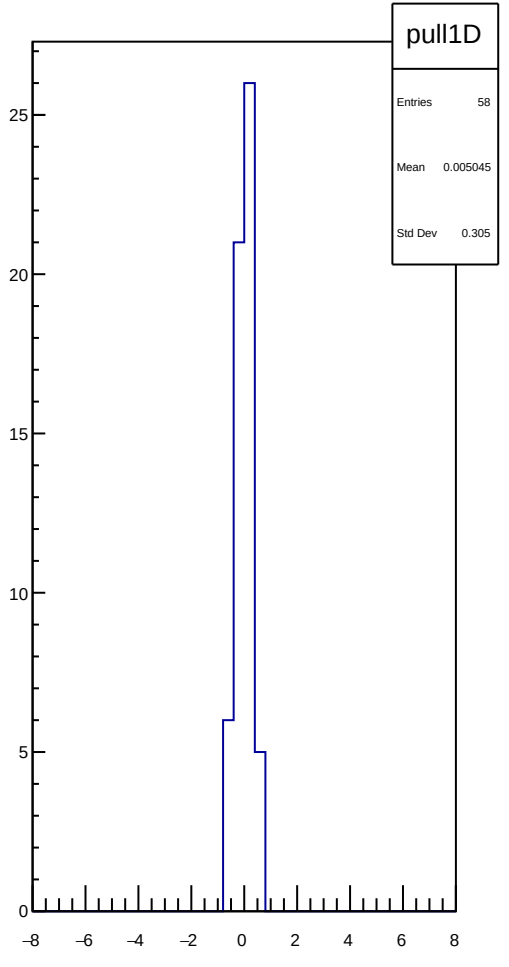

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4473 / 57
p0 207.8 ± 0.1978
280
260
240
220
200
180

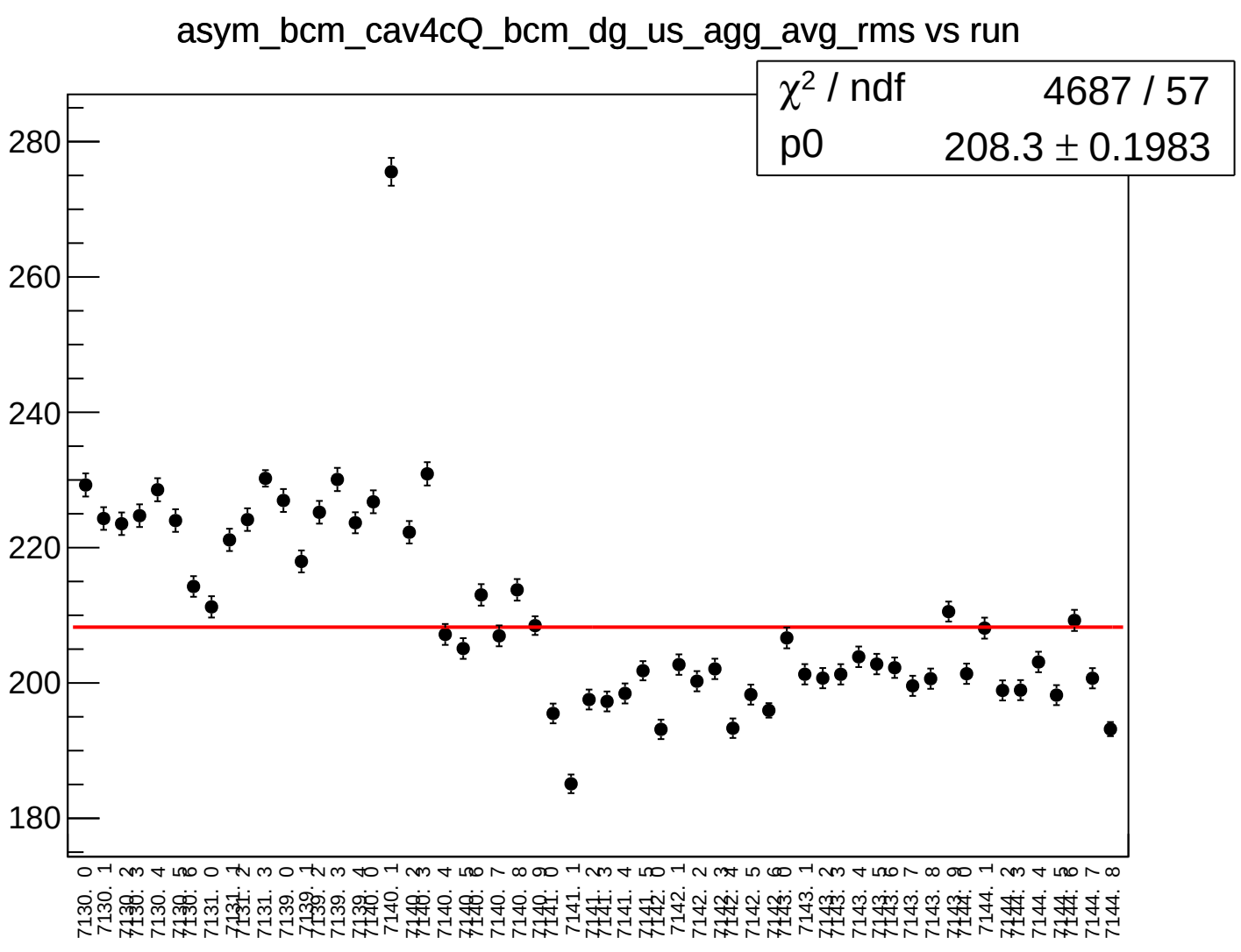

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.92 / 57
p0 −29.03 ± 35.42
pull
Entries 58
Mean −385.9
Std Dev 408.3

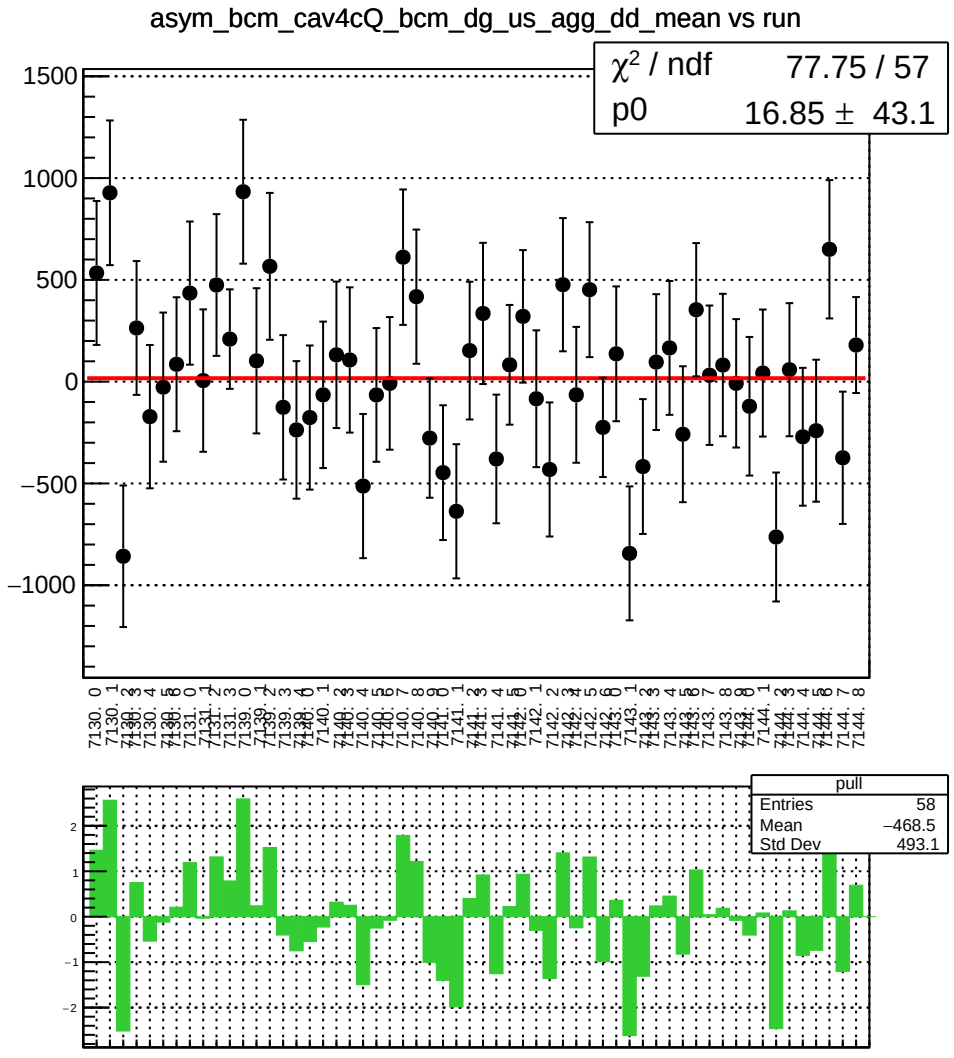

pull1D
Entries 58
Mean 0.007528
Std Dev 1.114

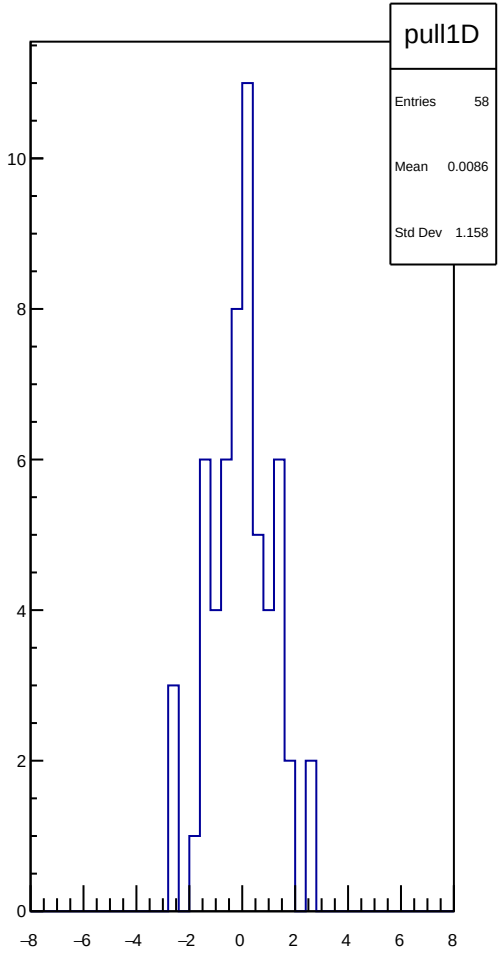

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2354 / 57
p0 26.33 ± 0.02504
30
29
28
27
26
25

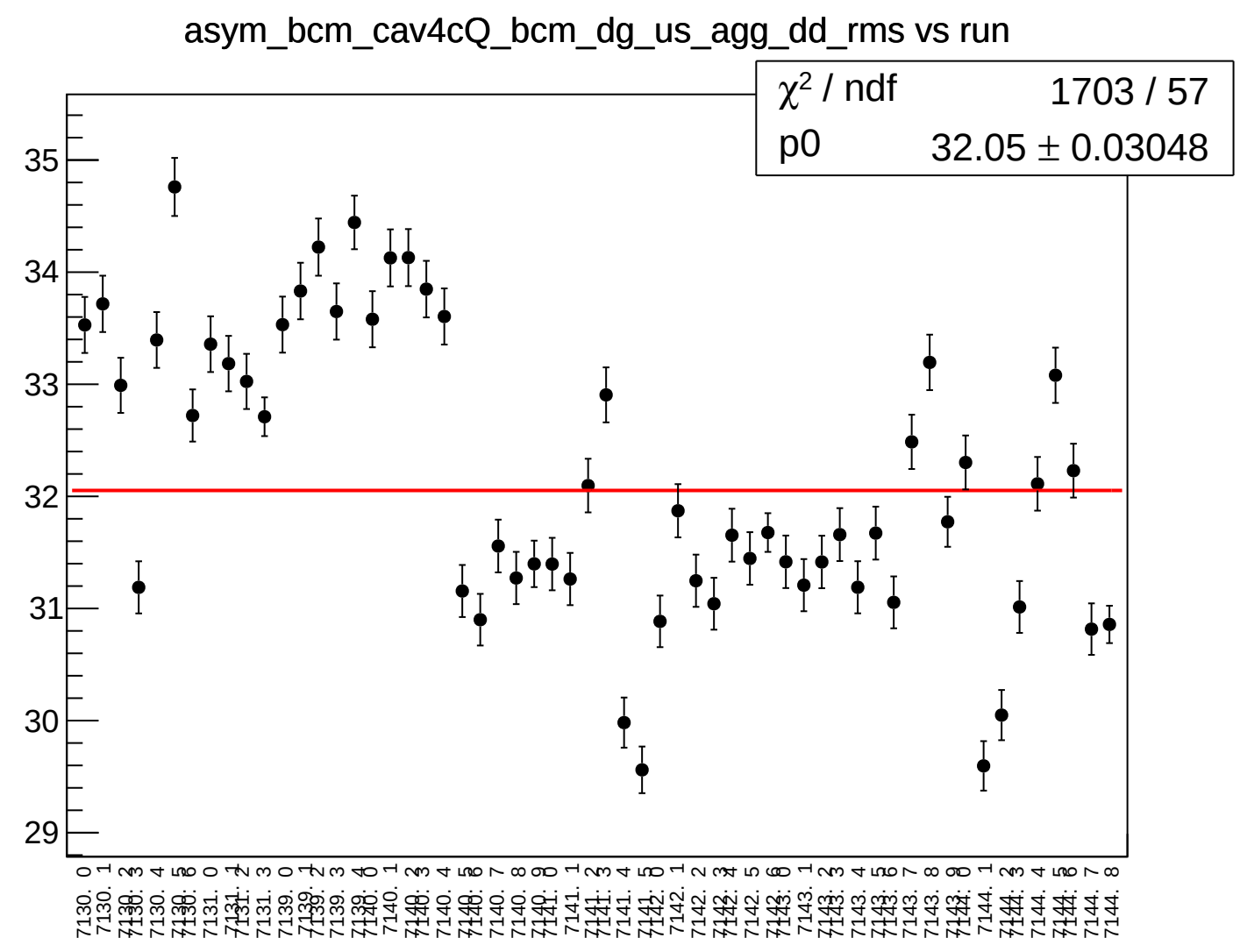

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 5.396 / 57
p0 −80.23 ± 280.4
4000
3000
2000
1000
0
−1000
−2000
−3000
−4000
pull
Entries 58
Mean −49.04
Std Dev 63.9
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

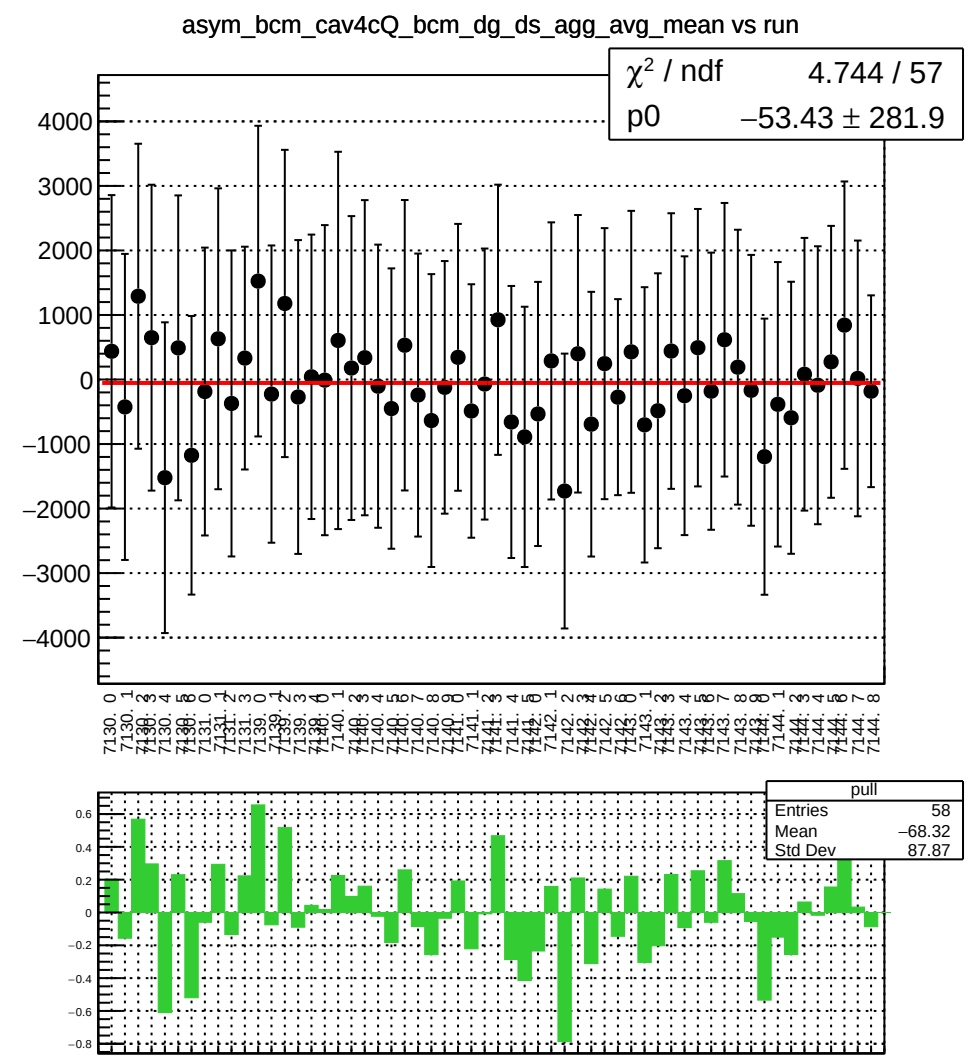

pull1D
Entries 58
Mean 0.005045
Std Dev 0.305
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

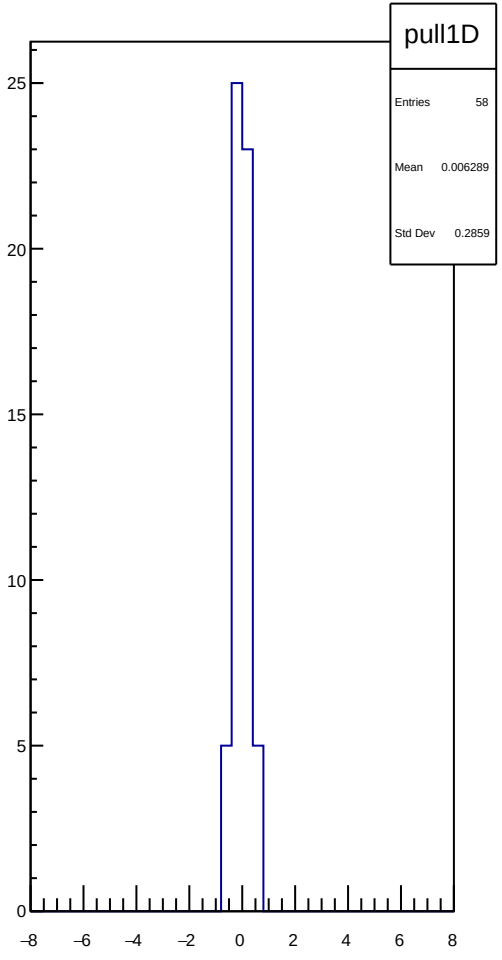

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4687 / 57
p0 208.3 ± 0.1983
280
260
240
220
200
180

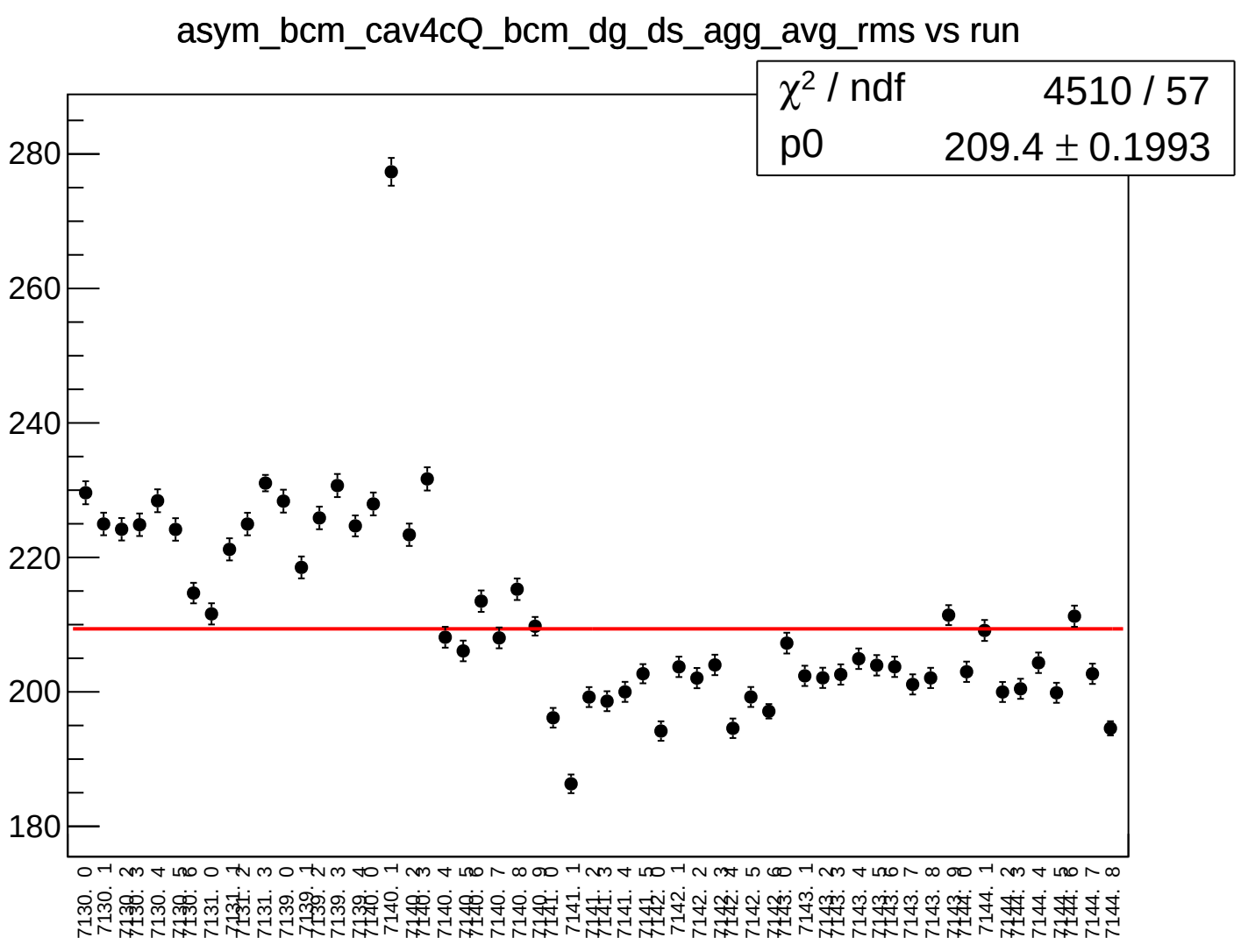

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 77.75 / 57
p0 16.85 ± 43.1
1500
1000
500
0
−500
−1000
pull
Entries 58
Mean −468.5
Std Dev 493.1
2
1
0
−1
−2

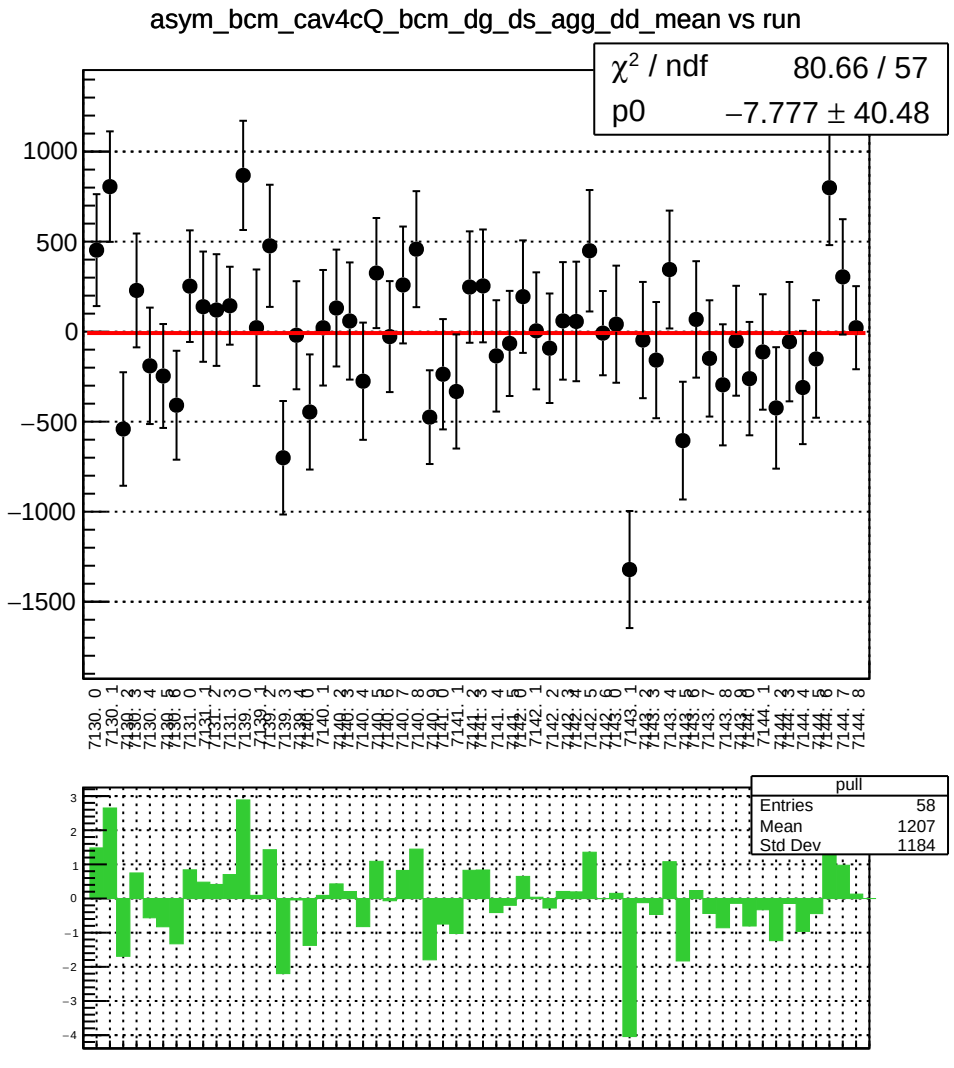

pull1D
Entries 58
Mean 0.0086
Std Dev 1.158
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

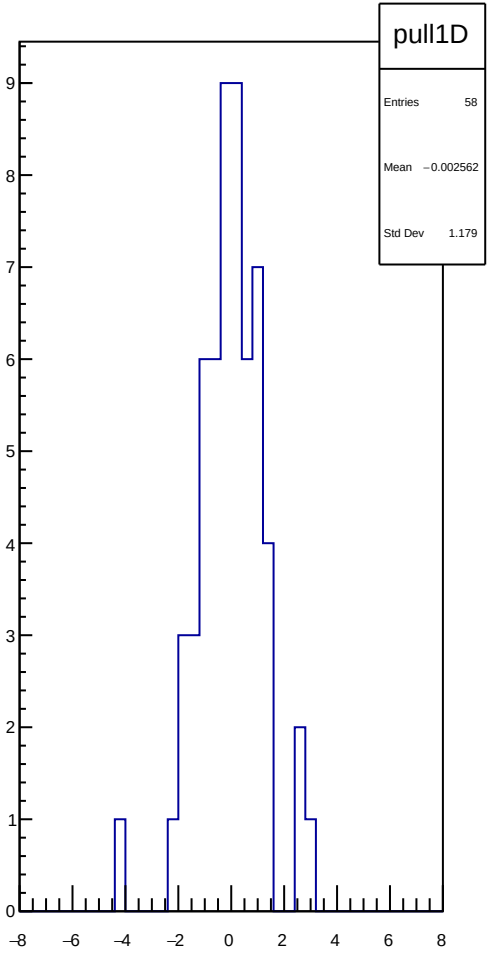

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1703 / 57
p0 32.05 ± 0.03048
35
34
33
32
31
30
29

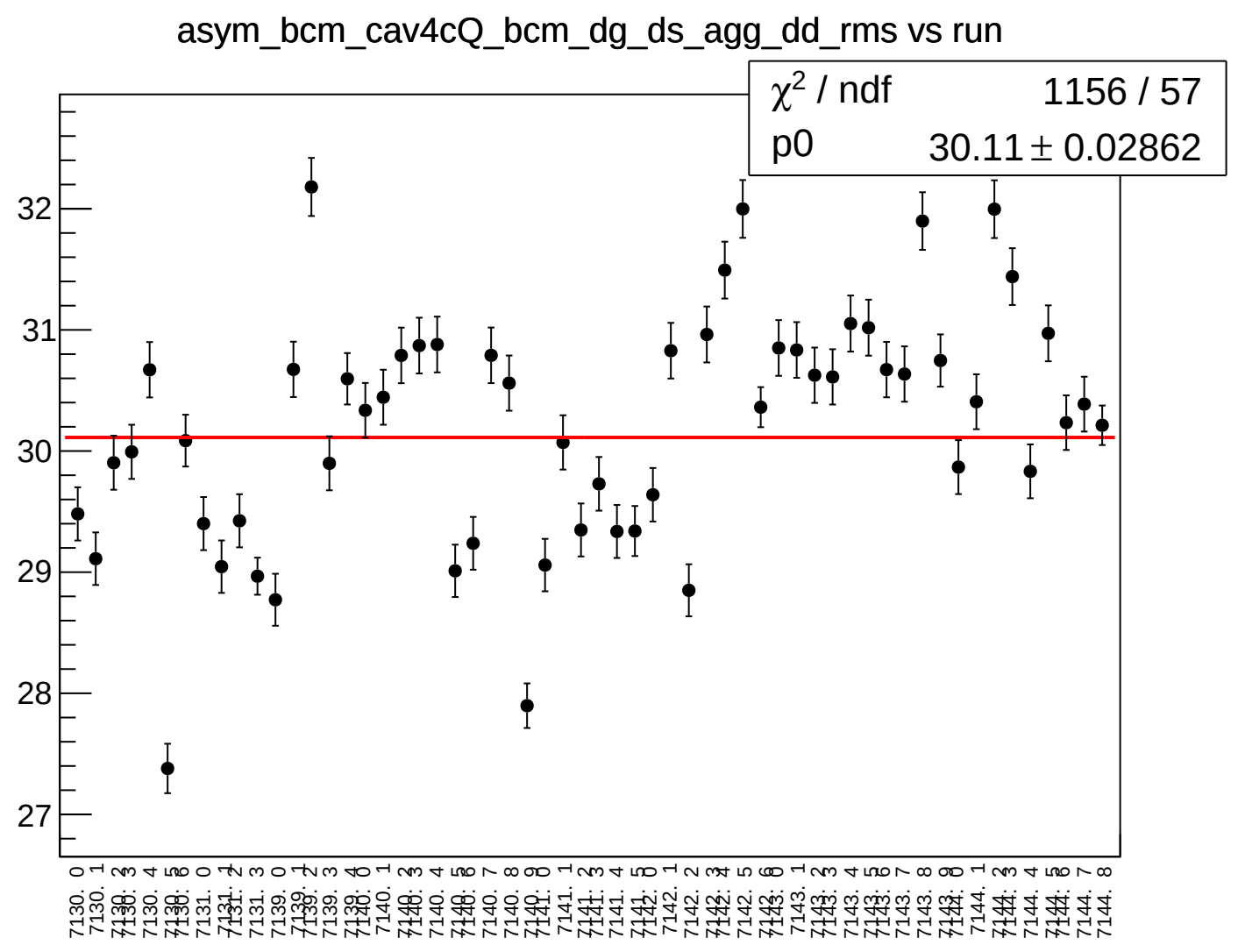

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 4.744 / 57
p0 −53.43 ± 281.9
pull
Entries 58
Mean −68.32
Std Dev 87.87

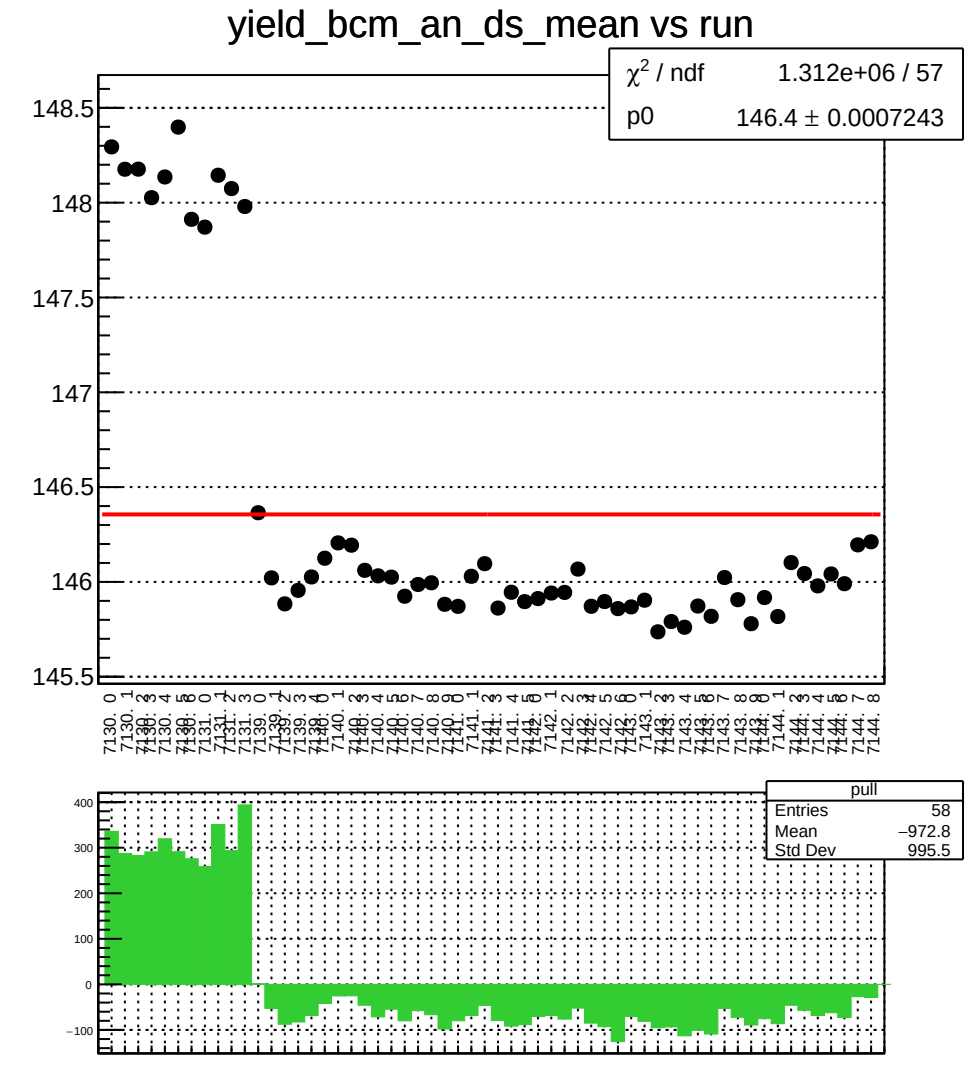

pull1D
Entries 58
Mean 0.006289
Std Dev 0.2859

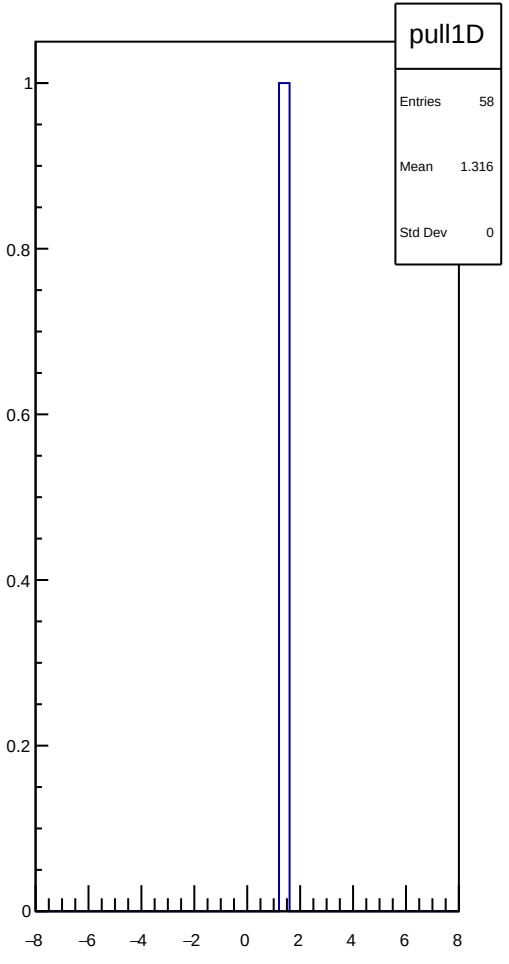

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4510 / 57
p0 209.4 ± 0.1993
280
260
240
220
200
180

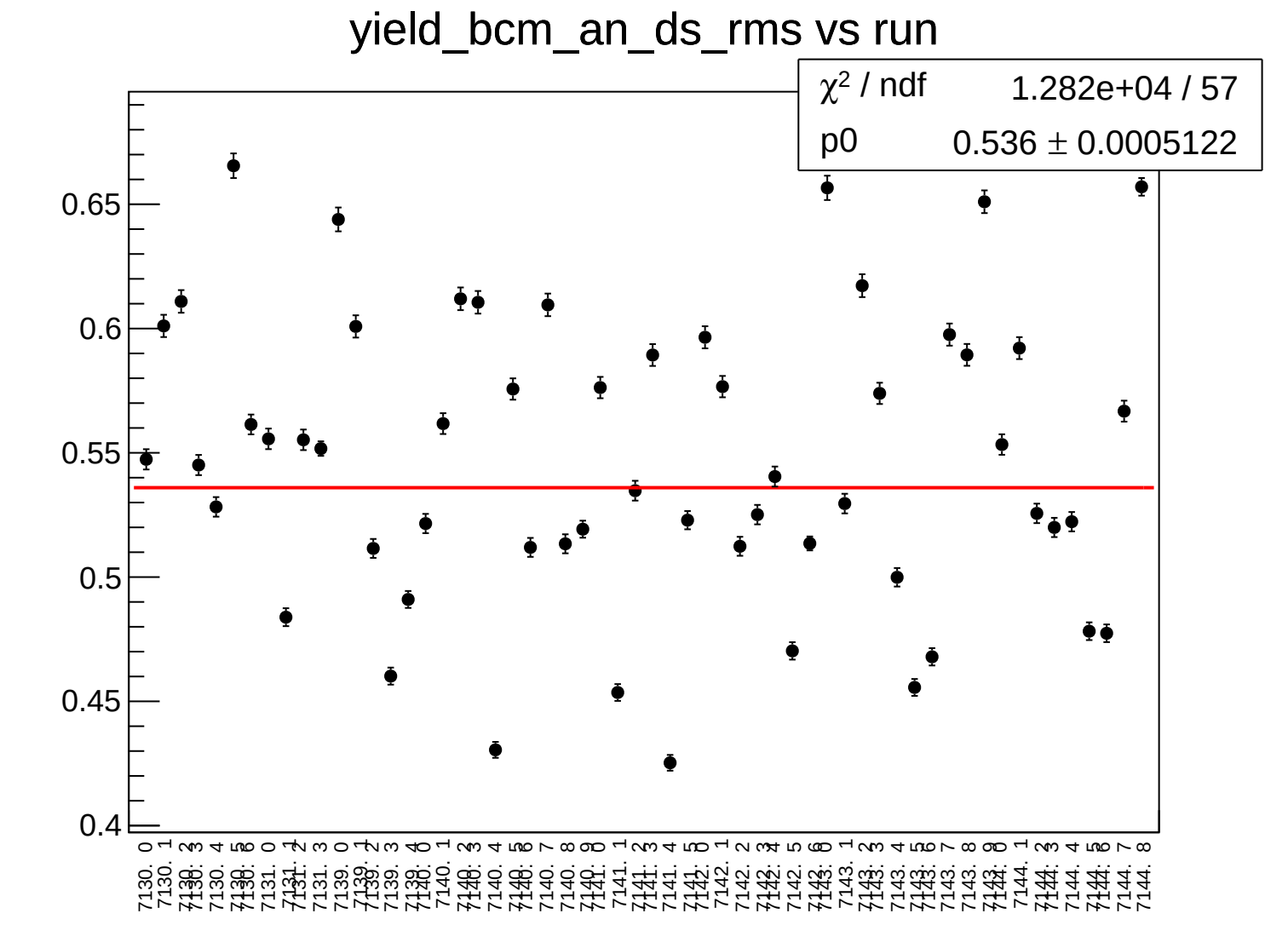

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.66 / 57
p0 −7.777 ± 40.48
1000
500
0
−500
−1000
−1500
pull
Entries 58
Mean 1207
Std Dev 1184
3
2
1
0
−1
−2
−3
−4

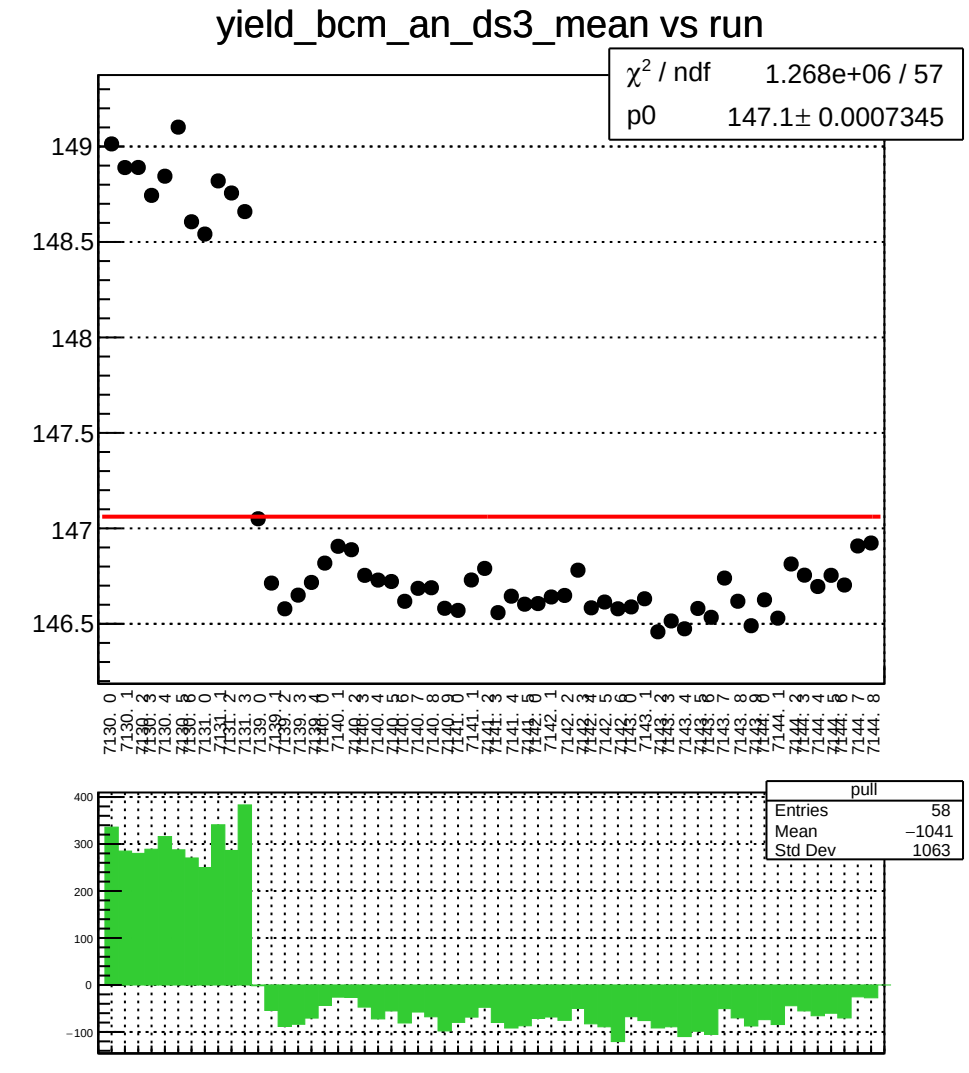

pull1D
Entries 58
Mean −0.002562
Std Dev 1.179
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

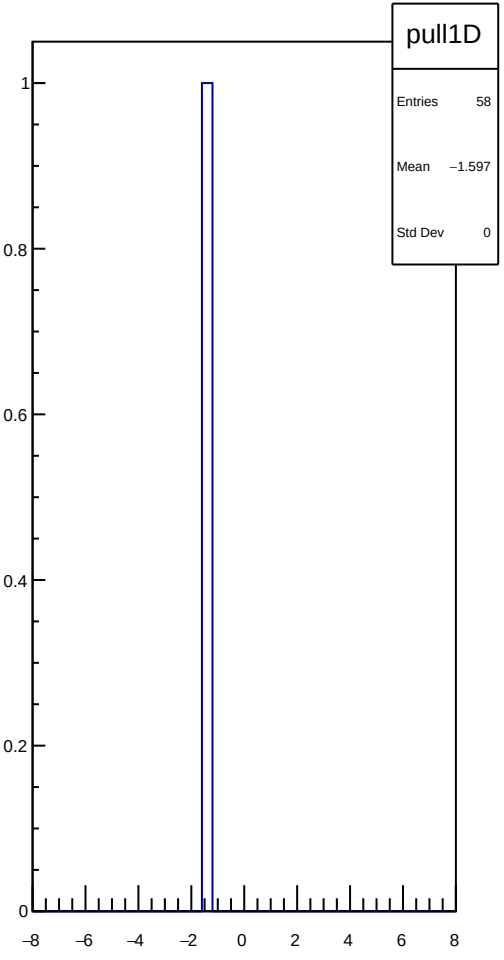

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1156 / 57
p0 30.11 ± 0.02862
32
31
30
29
28
27
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

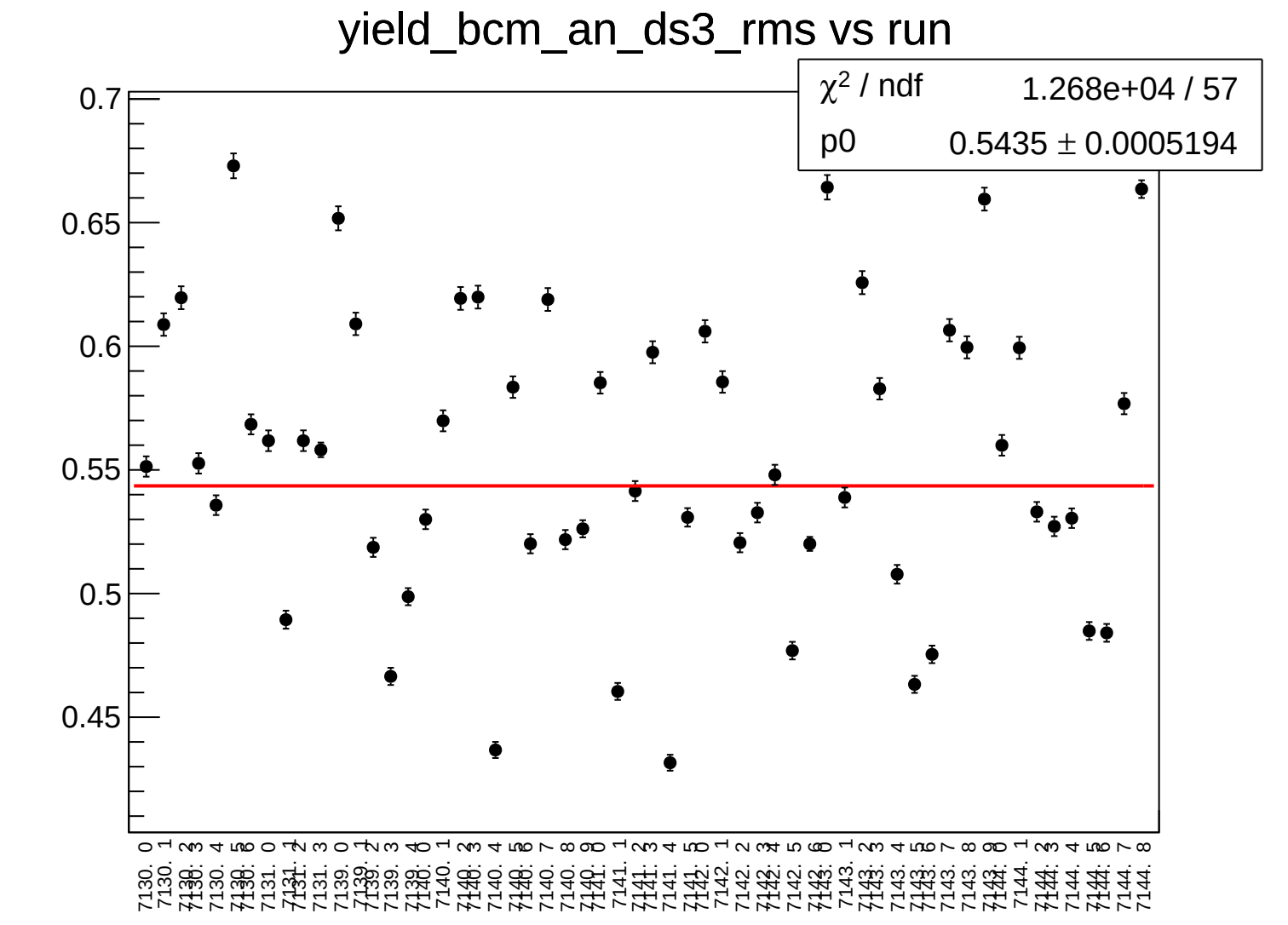

yield_bcm_an_ds_mean vs run
χ² / ndf 1.312e+06 / 57
p0 146.4 ± 0.0007243
148.5
148
147.5
147
146.5
146
145.5
pull
Entries 58
Mean −972.8
Std Dev 995.5
400
300
200
100
0
−100

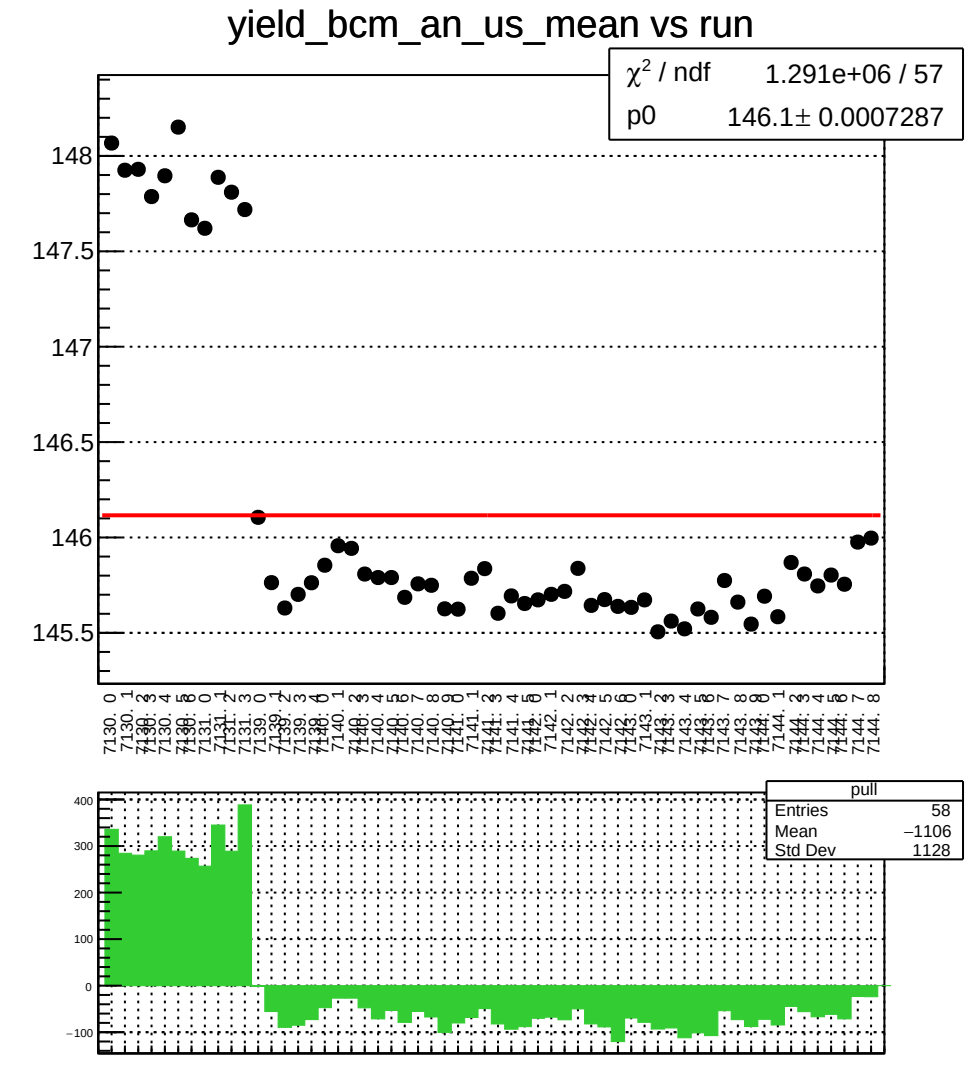

pull1D
Entries 58
Mean 1.316
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

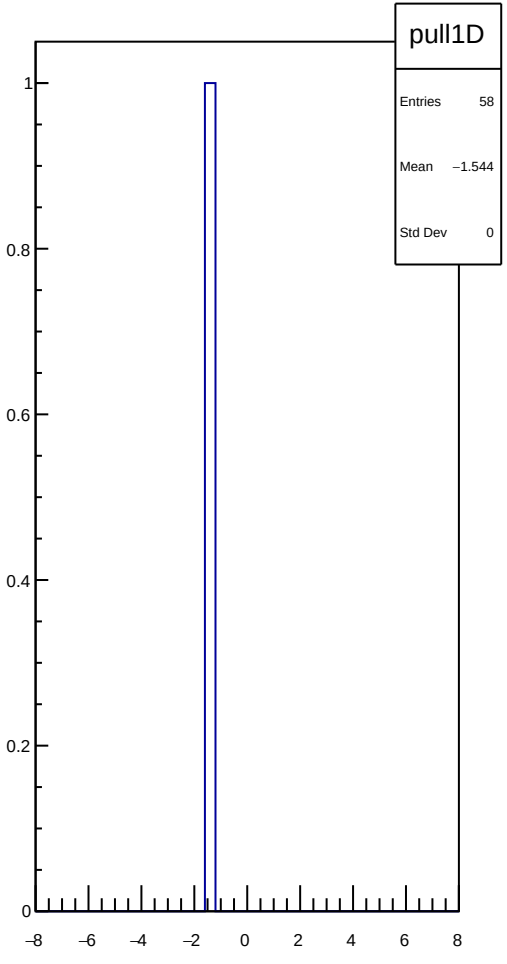

yield_bcm_an_ds_rms vs run
χ² / ndf 1.282e+04 / 57
p0 0.536 ± 0.0005122
0.65
0.6
0.55
0.5
0.45
0.4

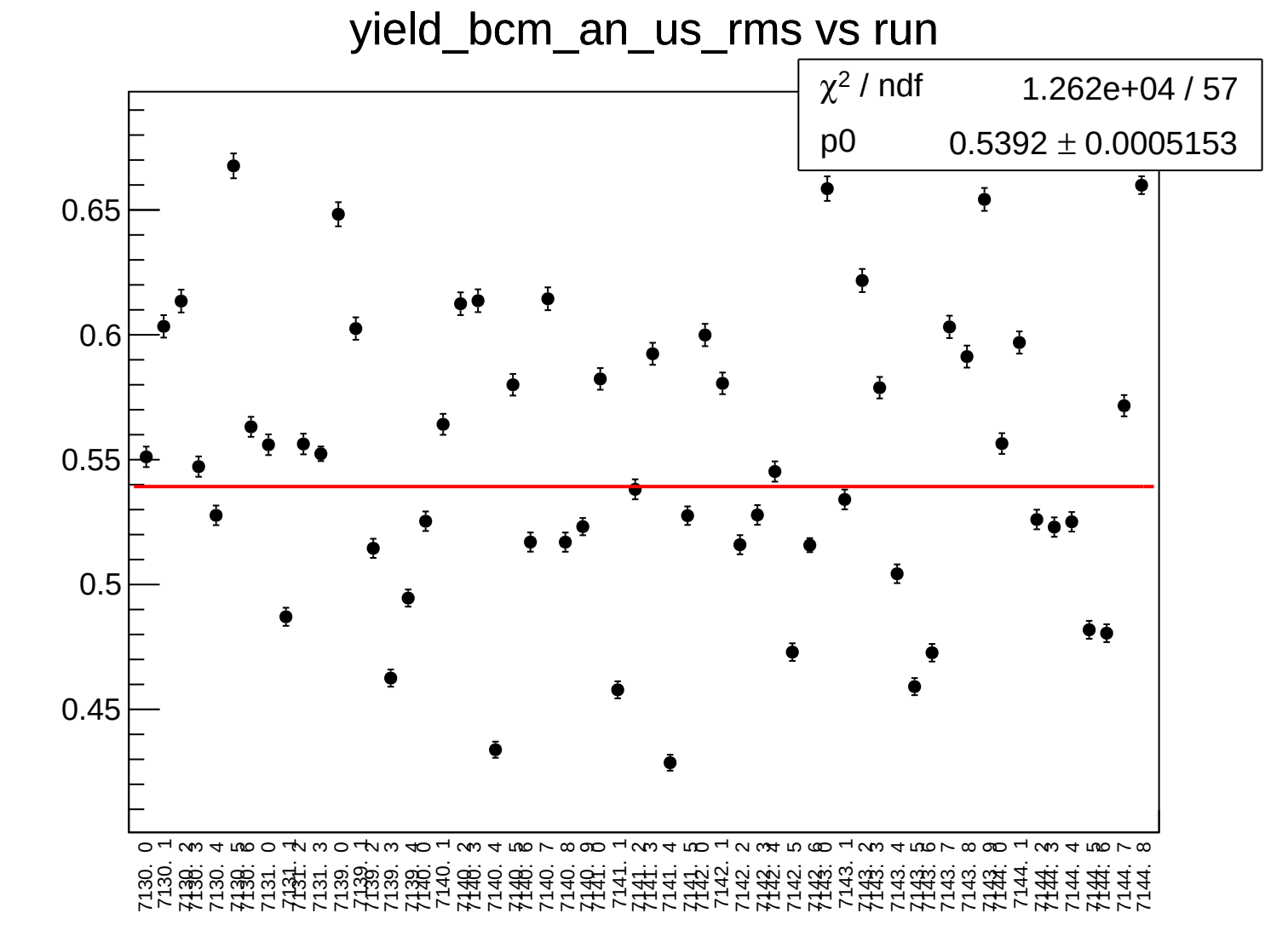

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.268e+06 / 57
p0 147.1± 0.0007345
149
148.5
148
147.5
147
146.5
pull
Entries 58
Mean −1041
Std Dev 1063
400
300
200
100
0
−100

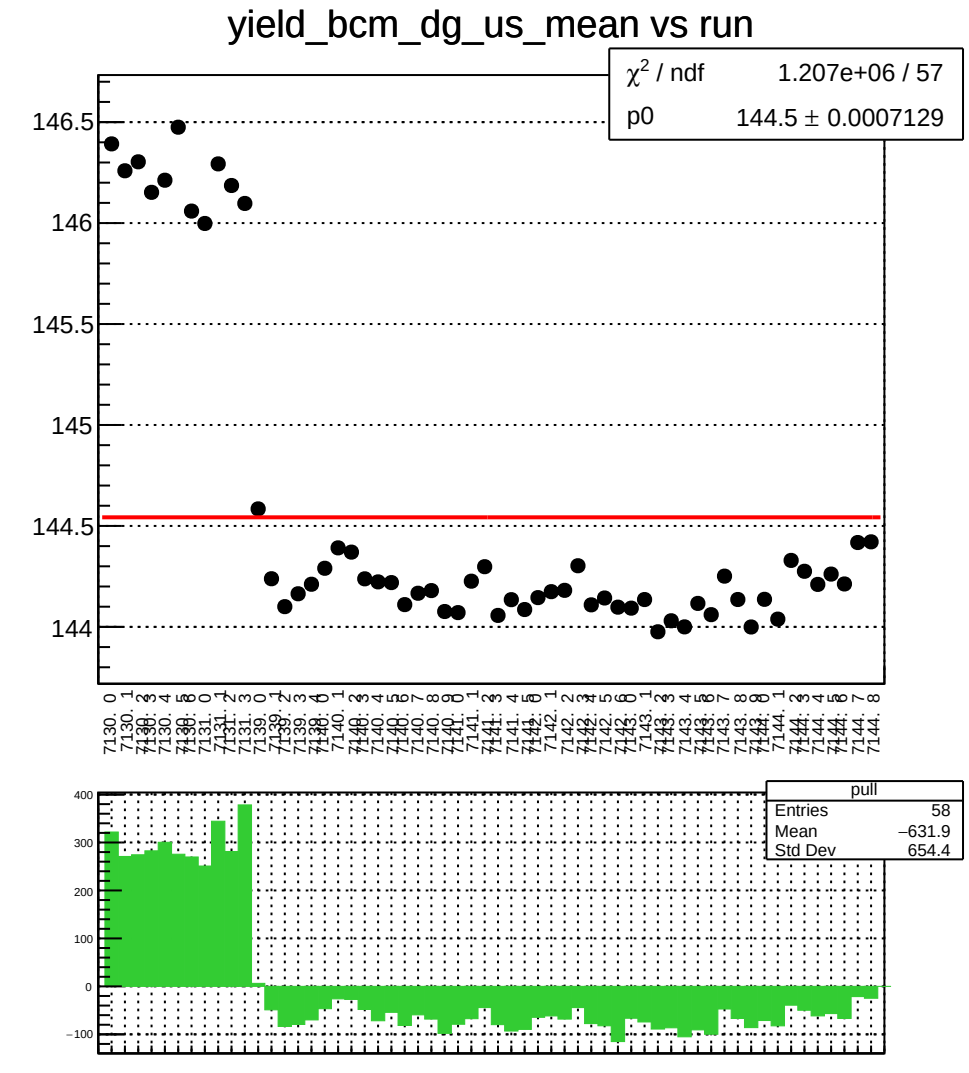

pull1D
Entries 58
Mean −1.597
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

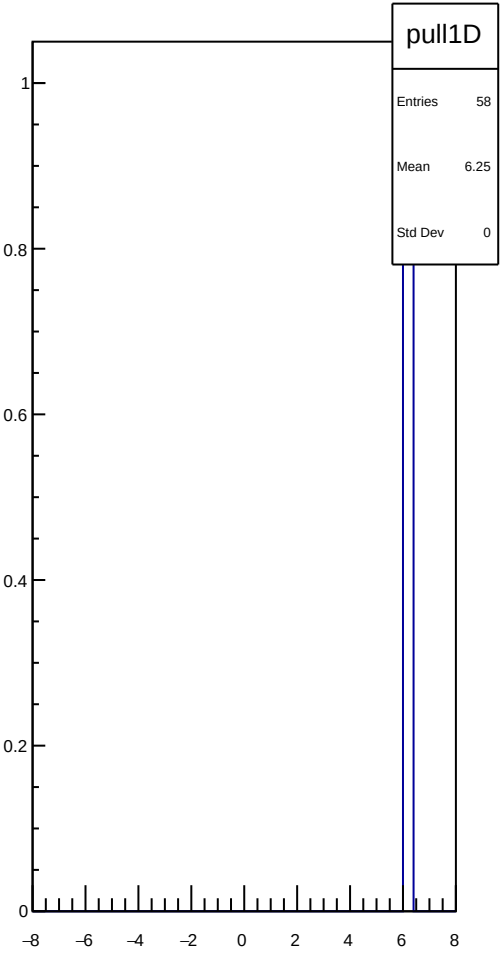

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.268e+04 / 57
p0 0.5435 ± 0.0005194
0.7
0.65
0.6
0.55
0.5
0.45

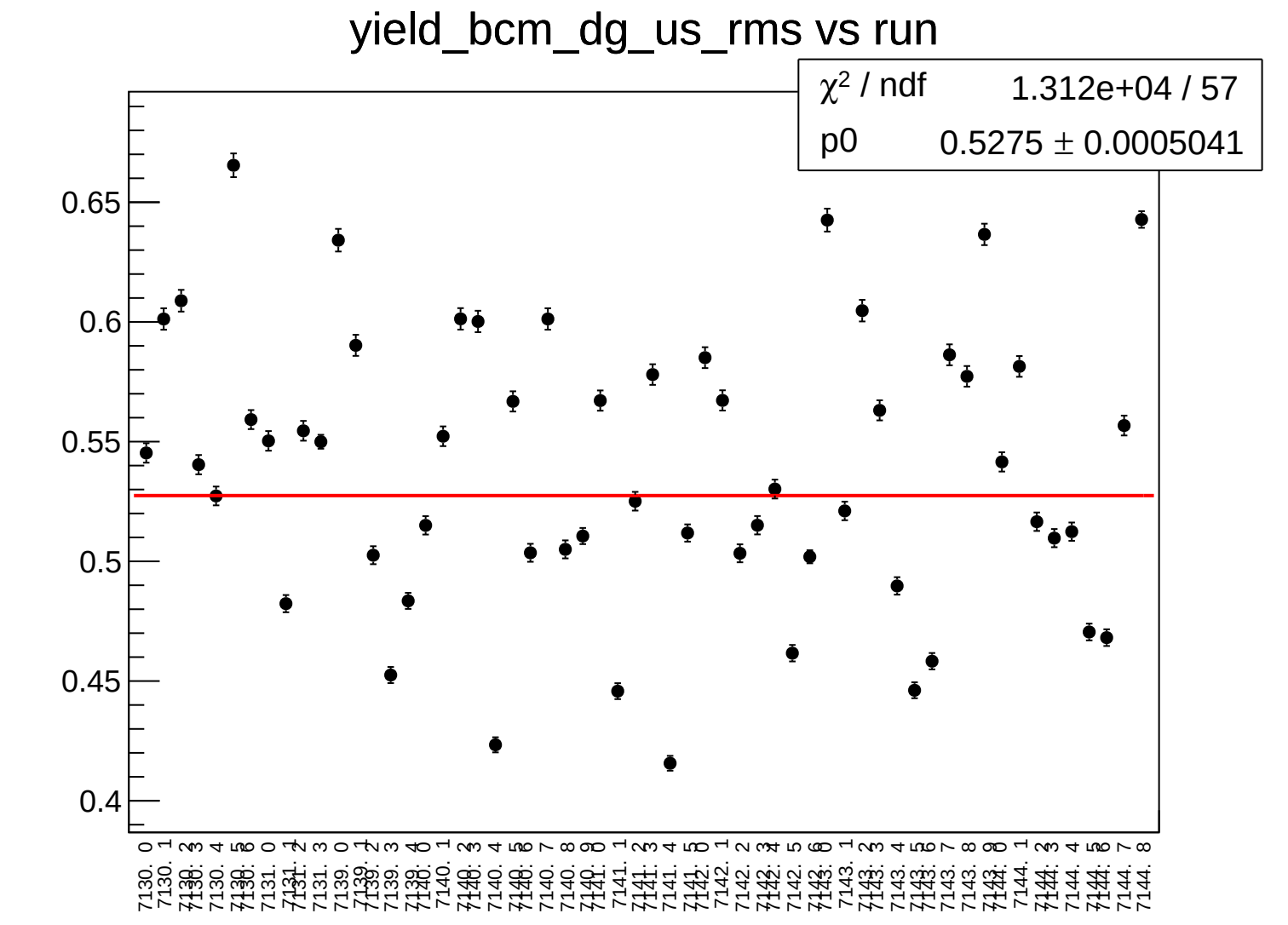

yield_bcm_an_us_mean vs run
χ² / ndf 1.291e+06 / 57
p0 146.1± 0.0007287
148
147.5
147
146.5
146
145.5
pull
Entries 58
Mean −1106
Std Dev 1128
400
300
200
100
0
−100

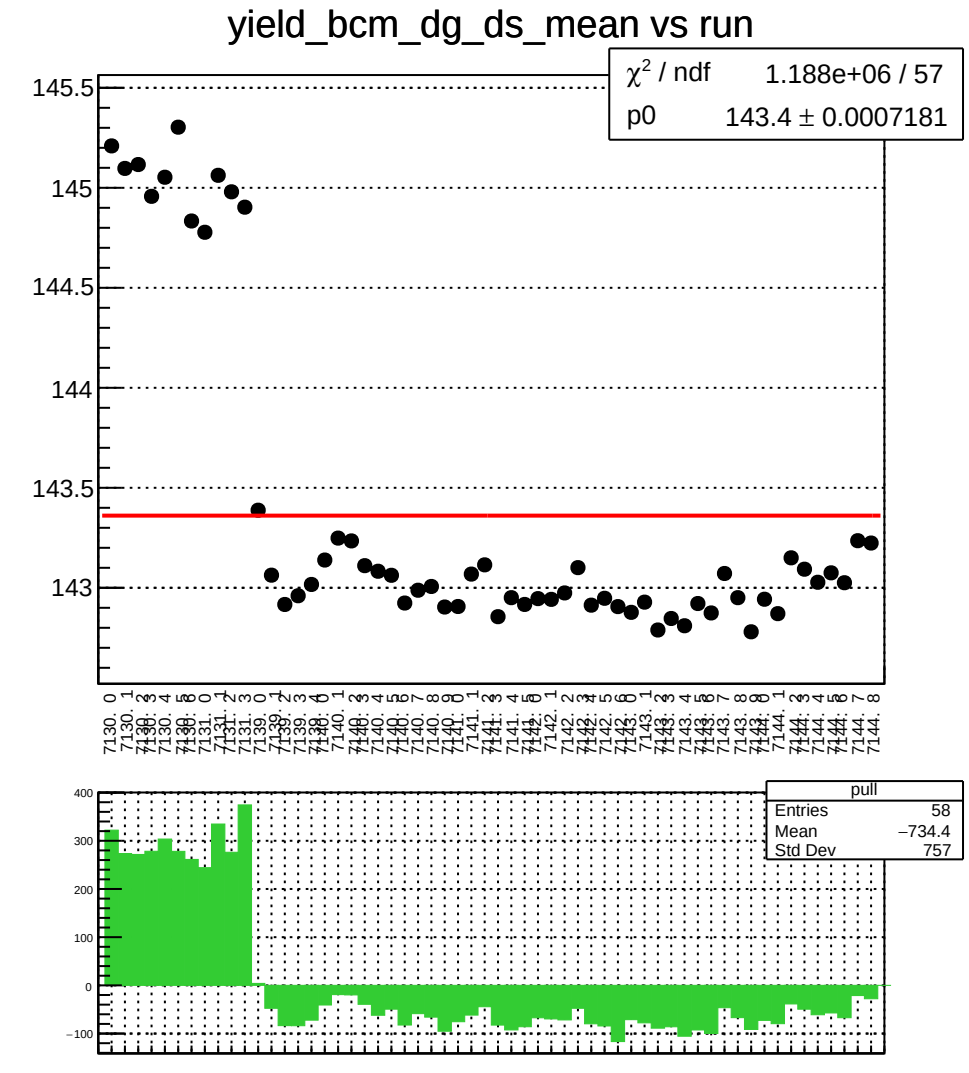

pull1D
Entries 58
Mean −1.544
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

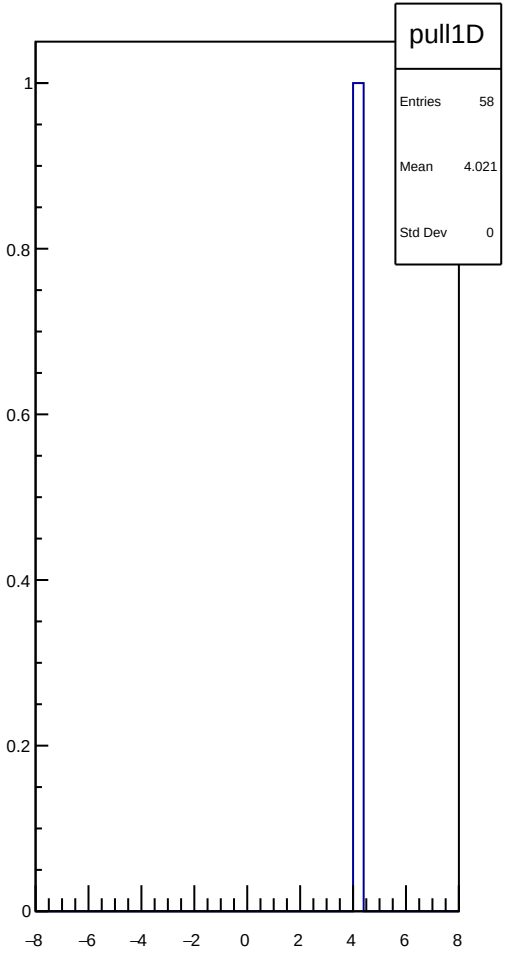

yield_bcm_an_us_rms vs run
χ² / ndf 1.262e+04 / 57
p0 0.5392 ± 0.0005153
0.65
0.6
0.55
0.5
0.45

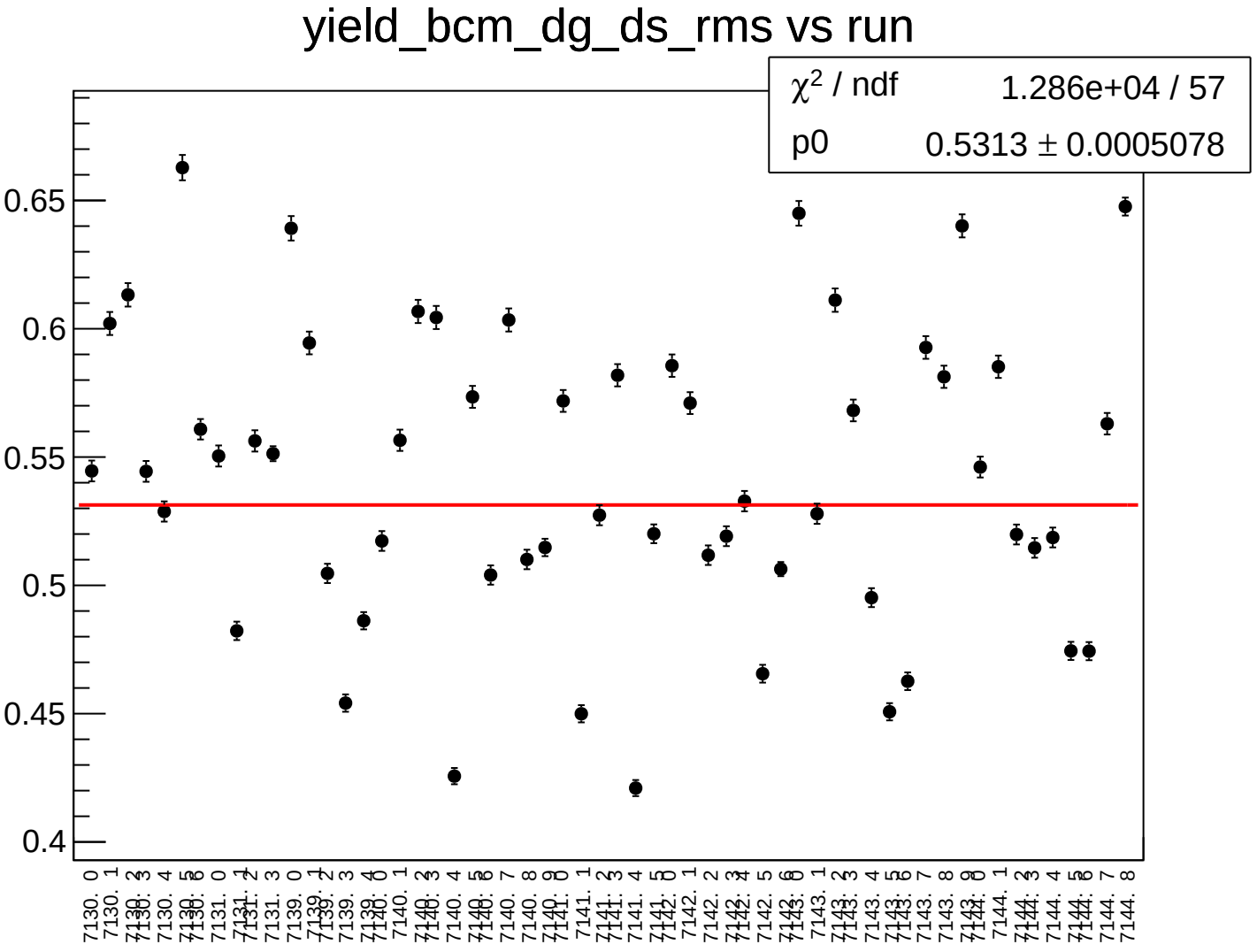

yield_bcm_dg_us_mean vs run
χ² / ndf 1.207e+06 / 57
p0 144.5 ± 0.0007129
146.5
146
145.5
145
144.5
144
pull
Entries 58
Mean −631.9
Std Dev 654.4
400
300
200
100
0
−100

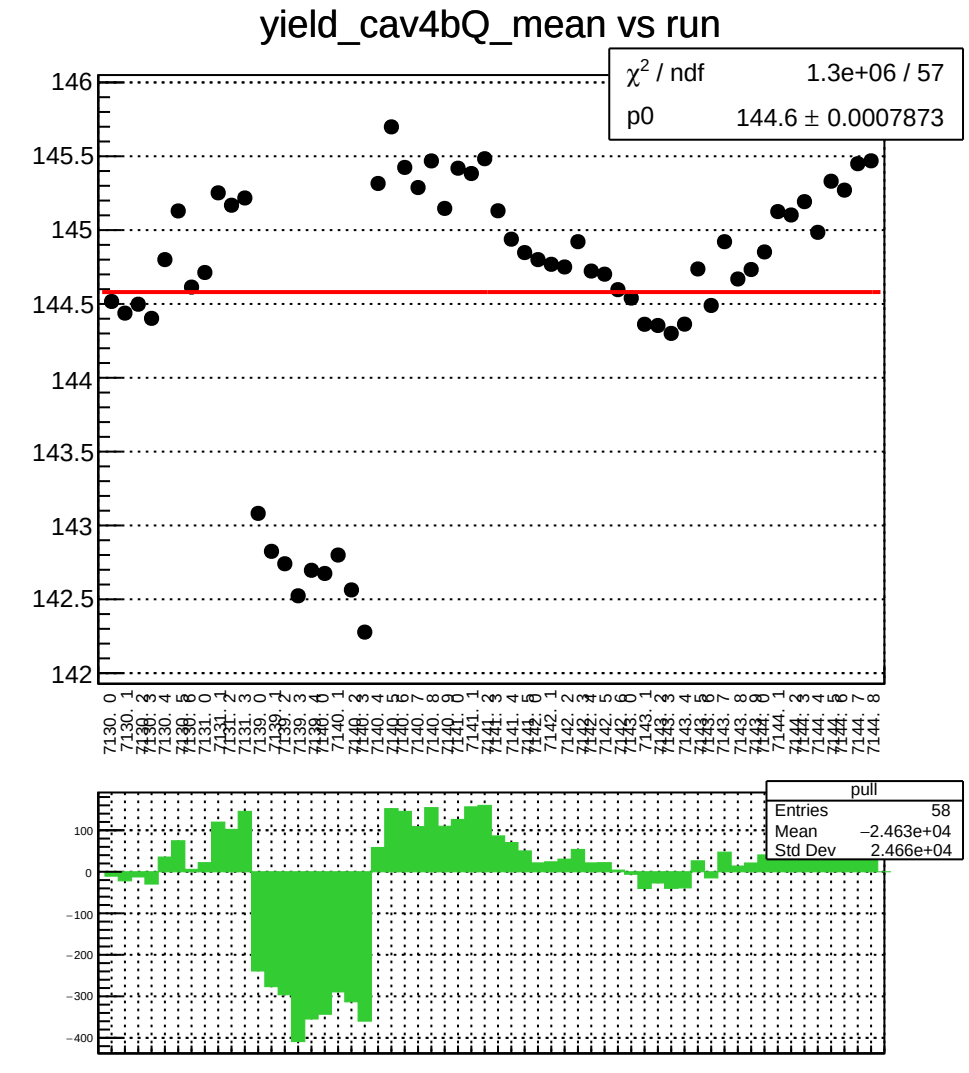

pull1D
Entries 58
Mean 6.25
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

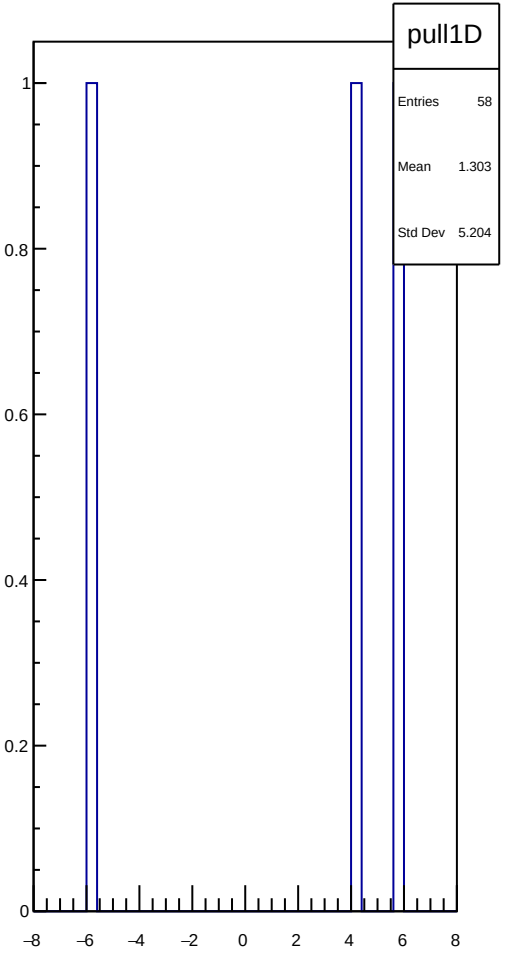

yield_bcm_dg_us_rms vs run
χ² / ndf 1.312e+04 / 57
p0 0.5275 ± 0.0005041
0.65
0.6
0.55
0.5
0.45
0.4

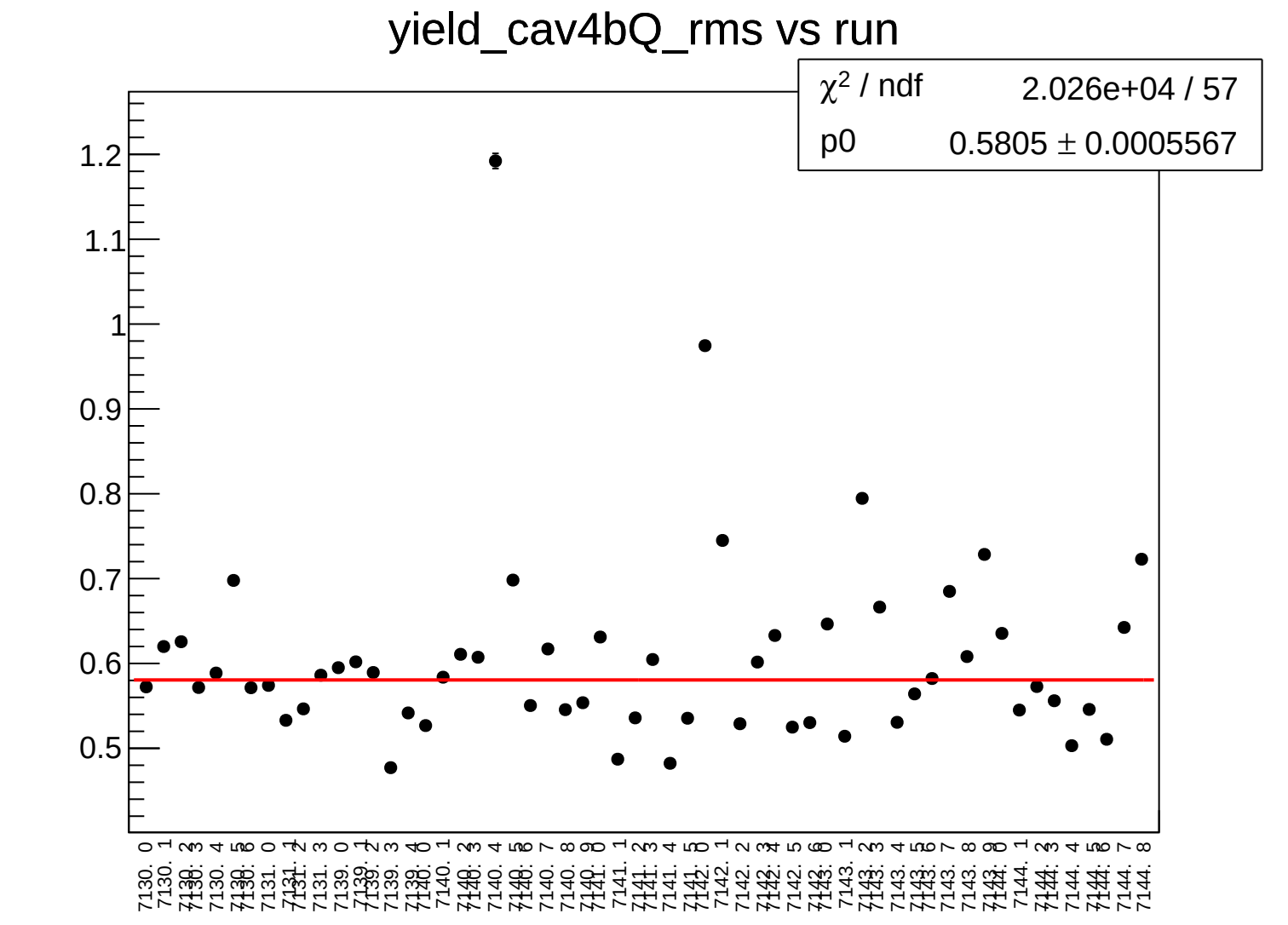

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.188e+06 / 57
p0 143.4 ± 0.0007181
145.5
145
144.5
144
143.5
143
pull
Entries 58
Mean −734.4
Std Dev 757
400
300
200
100
0
−100

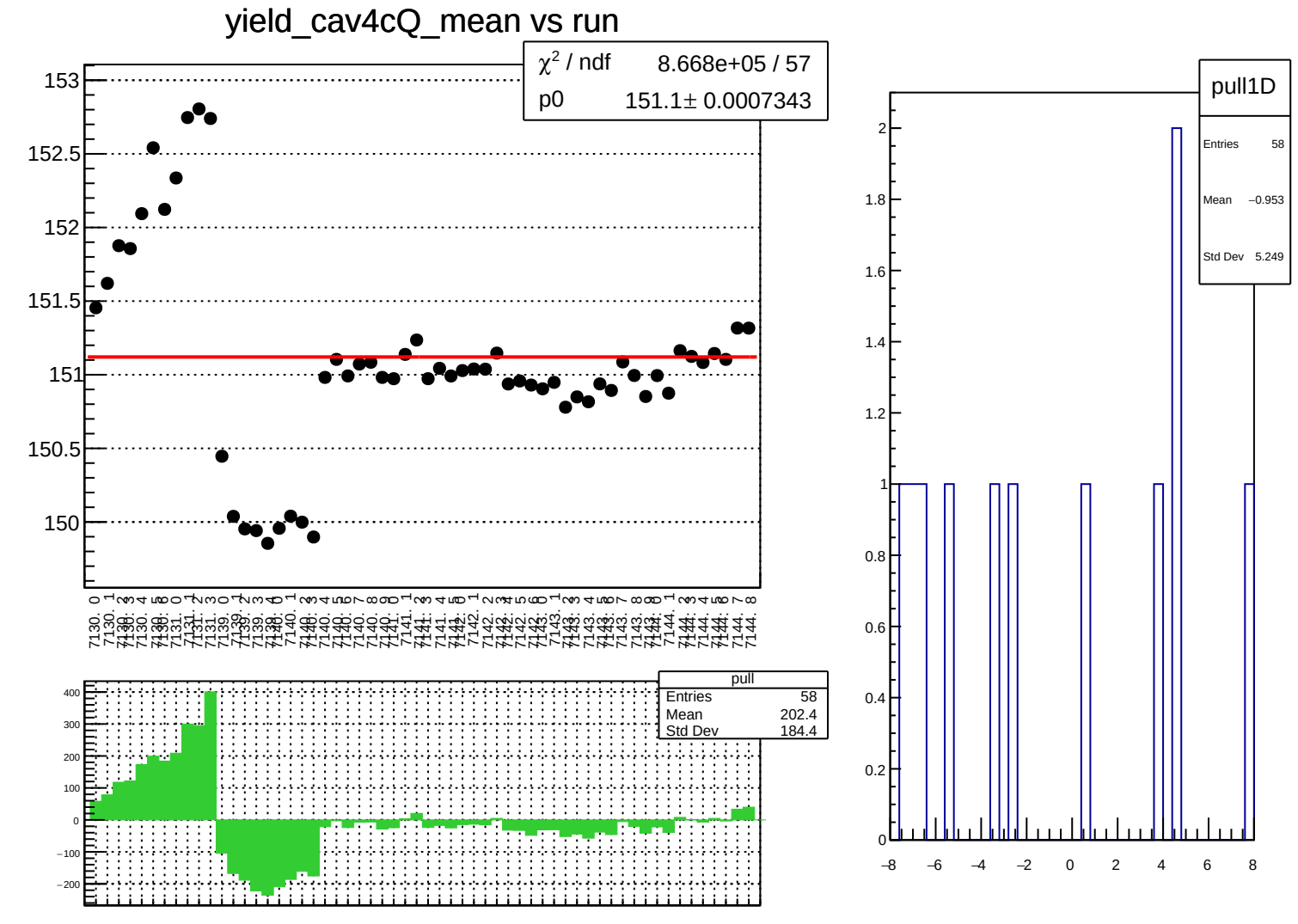

pull1D
Entries 58
Mean 4.021
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

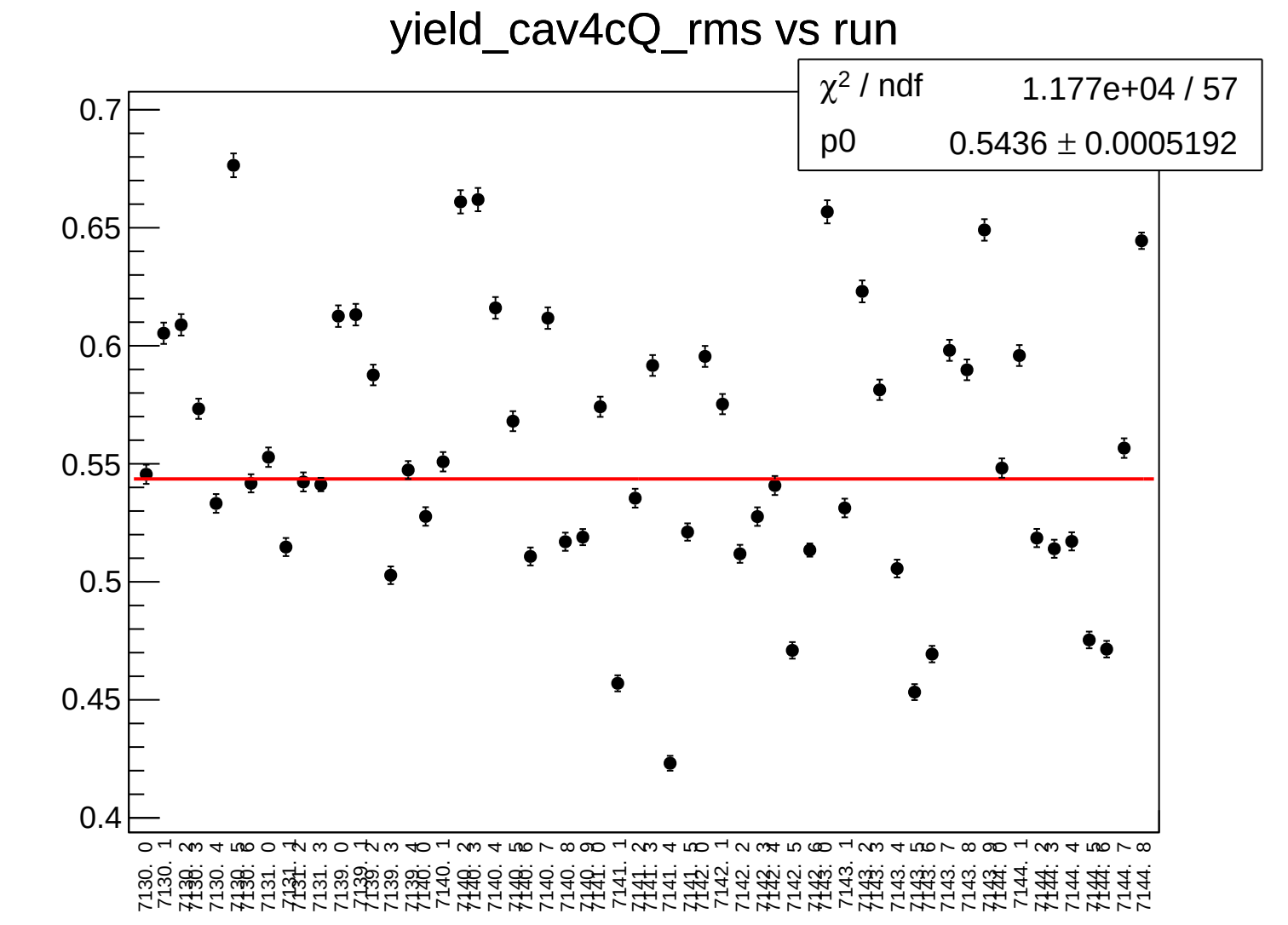

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.286e+04 / 57
p0 0.5313 ± 0.0005078
0.65
0.6
0.55
0.5
0.45
0.4

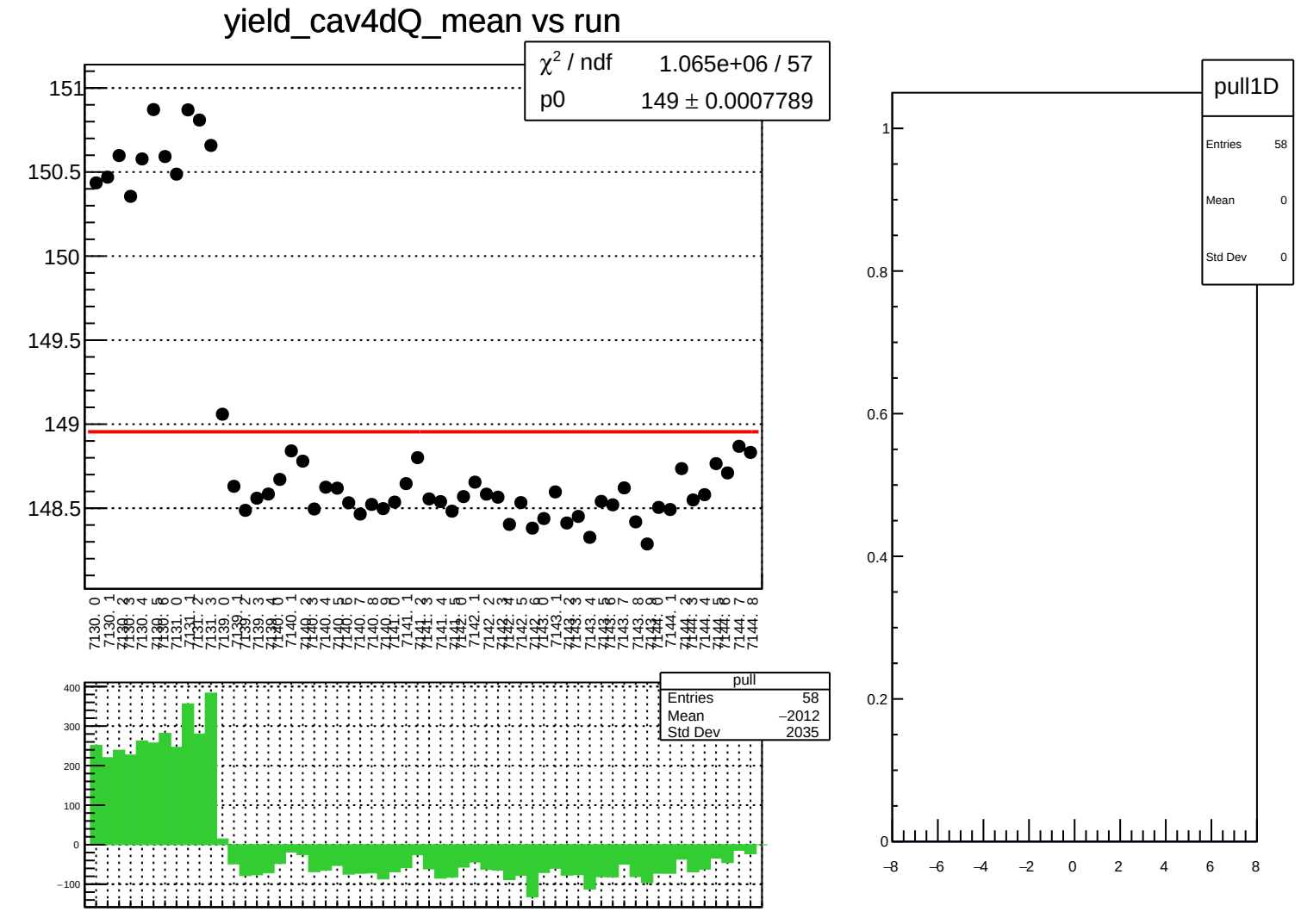

yield_cav4bQ_mean vs run
χ² / ndf 1.3e+06 / 57
p0 144.6 ± 0.0007873
pull
Entries 58
Mean −2.463e+04
Std Dev 2.466e+04

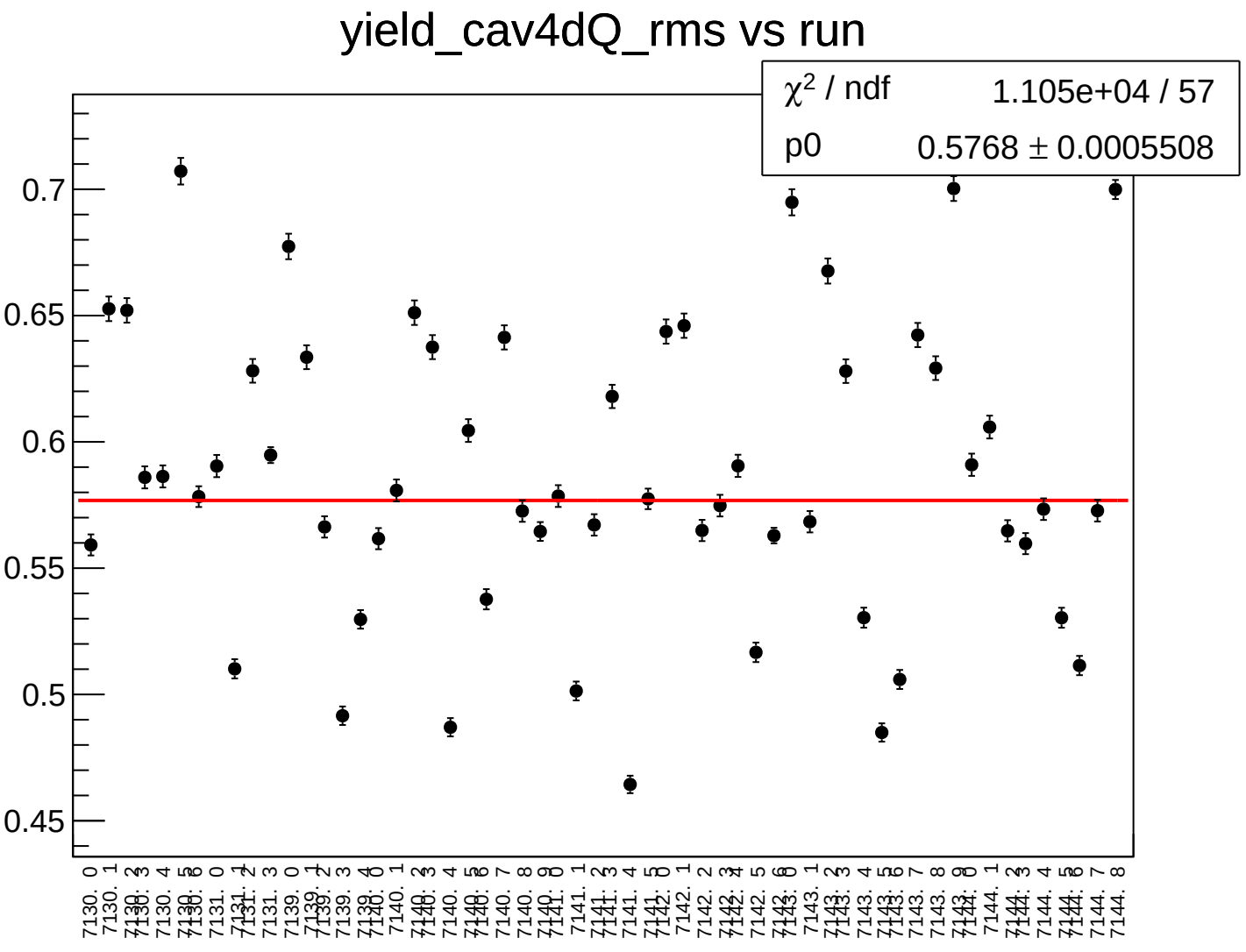

pull1D
Entries 58
Mean 1.303
Std Dev 5.204

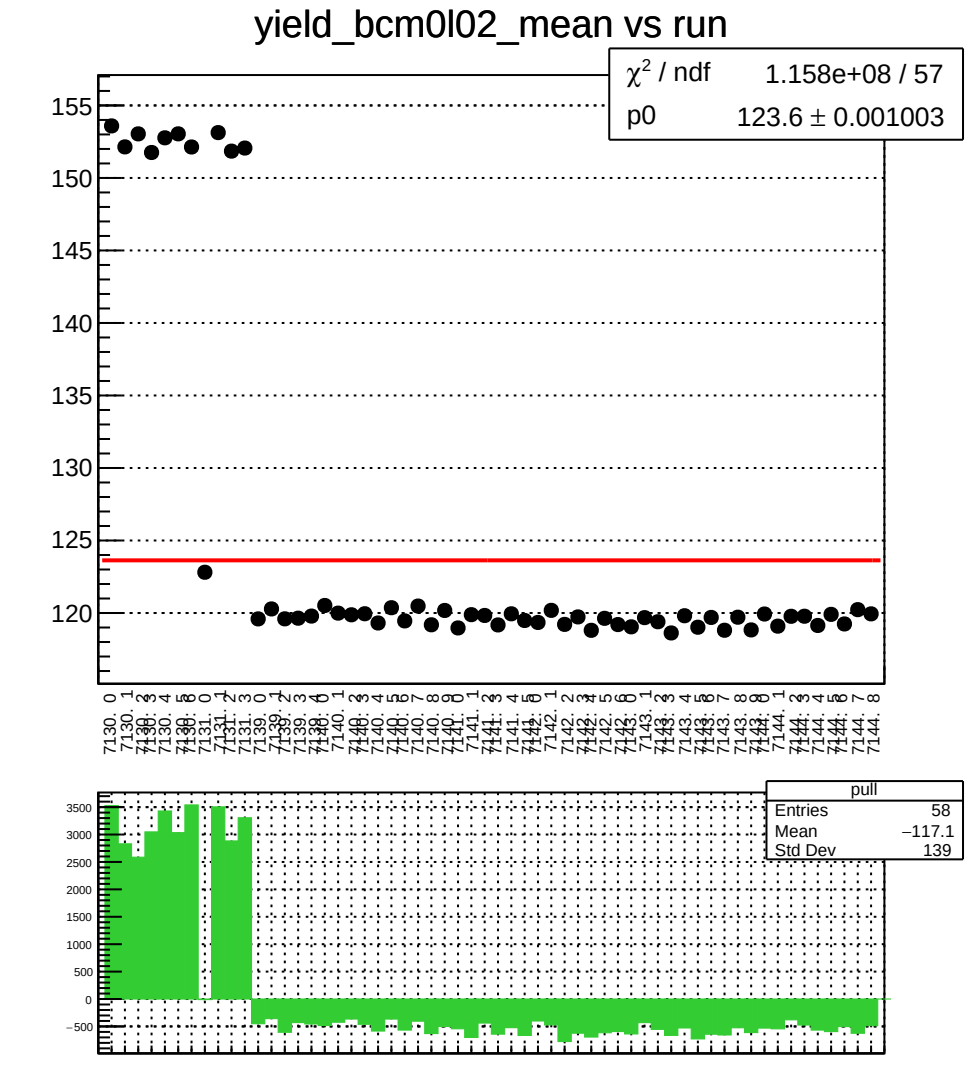

yield_cav4bQ_rms vs run
χ^2 / ndf 2.026e+04 / 57
p0 0.5805 ± 0.0005567
1.2
1.1
1
0.9
0.8
0.7
0.6
0.5

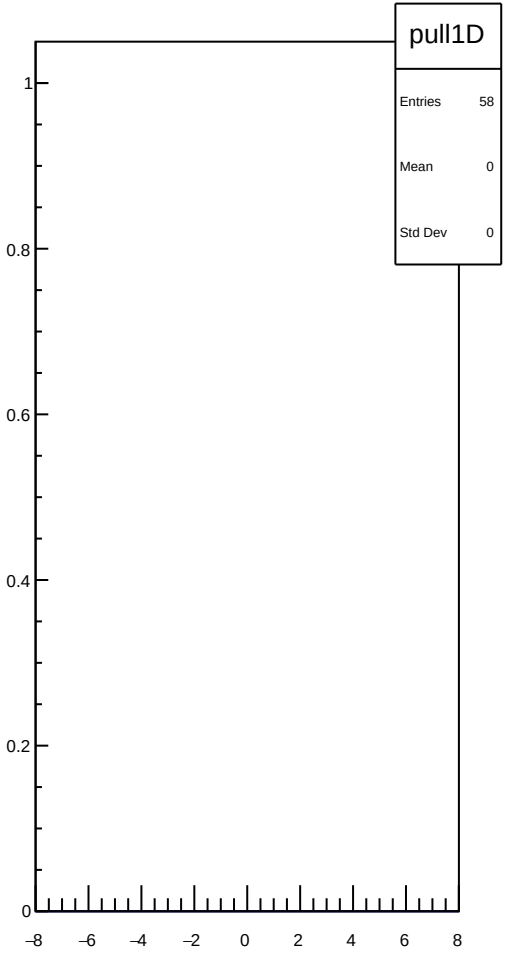

yield_cav4cQ_mean vs run
χ² / ndf 8.668e+05 / 57
p0 151.1± 0.0007343
153
152.5
152
151.5
151
150.5
150
pull
Entries 58
Mean 202.4
Std Dev 184.4
400
300
200
100
0
−100
−200
pull1D
Entries 58
Mean −0.953
Std Dev 5.249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

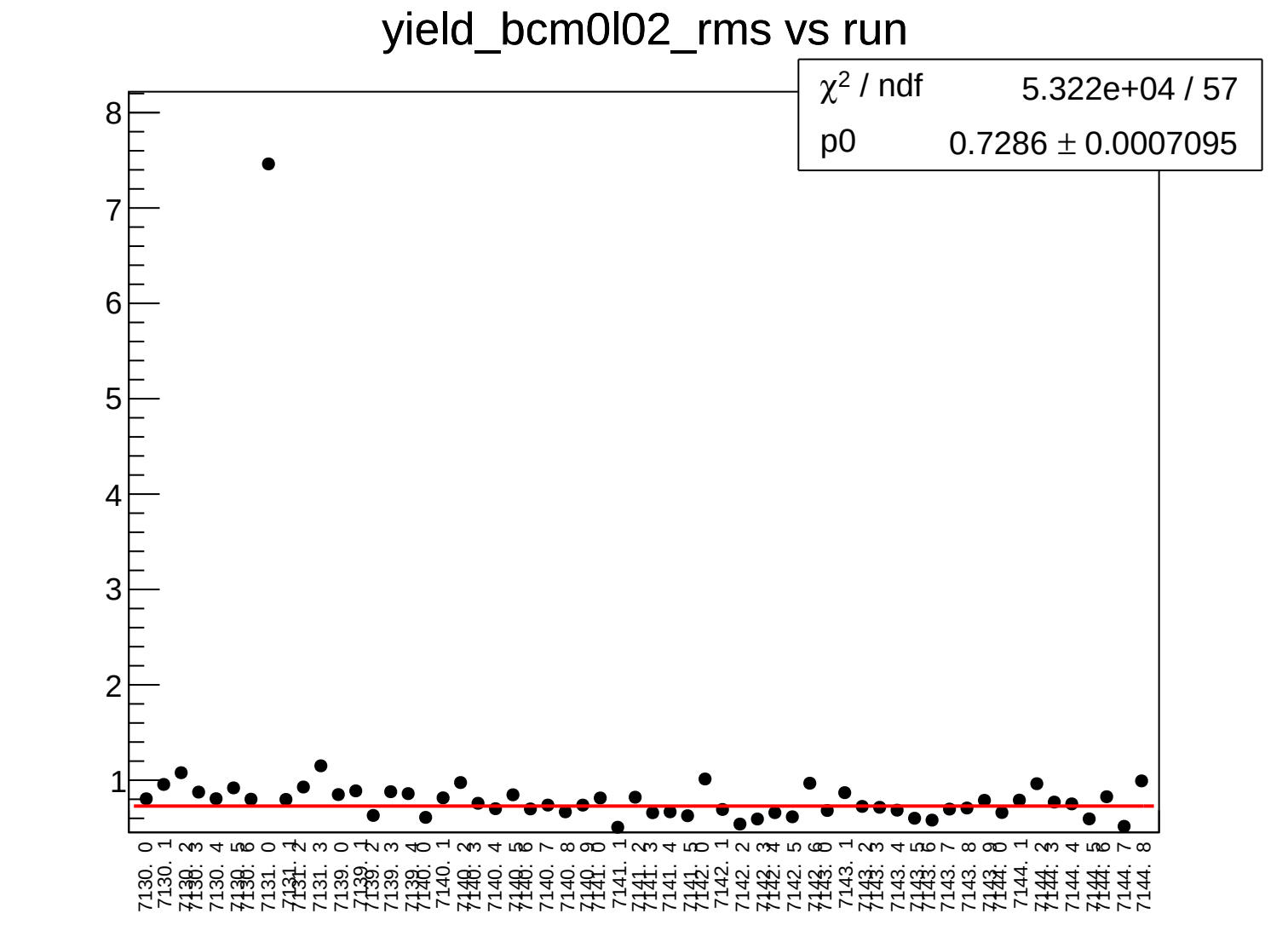

yield_cav4cQ_rms vs run
χ² / ndf 1.177e+04 / 57
p0 0.5436 ± 0.0005192
0.7
0.65
0.6
0.55
0.5
0.45
0.4

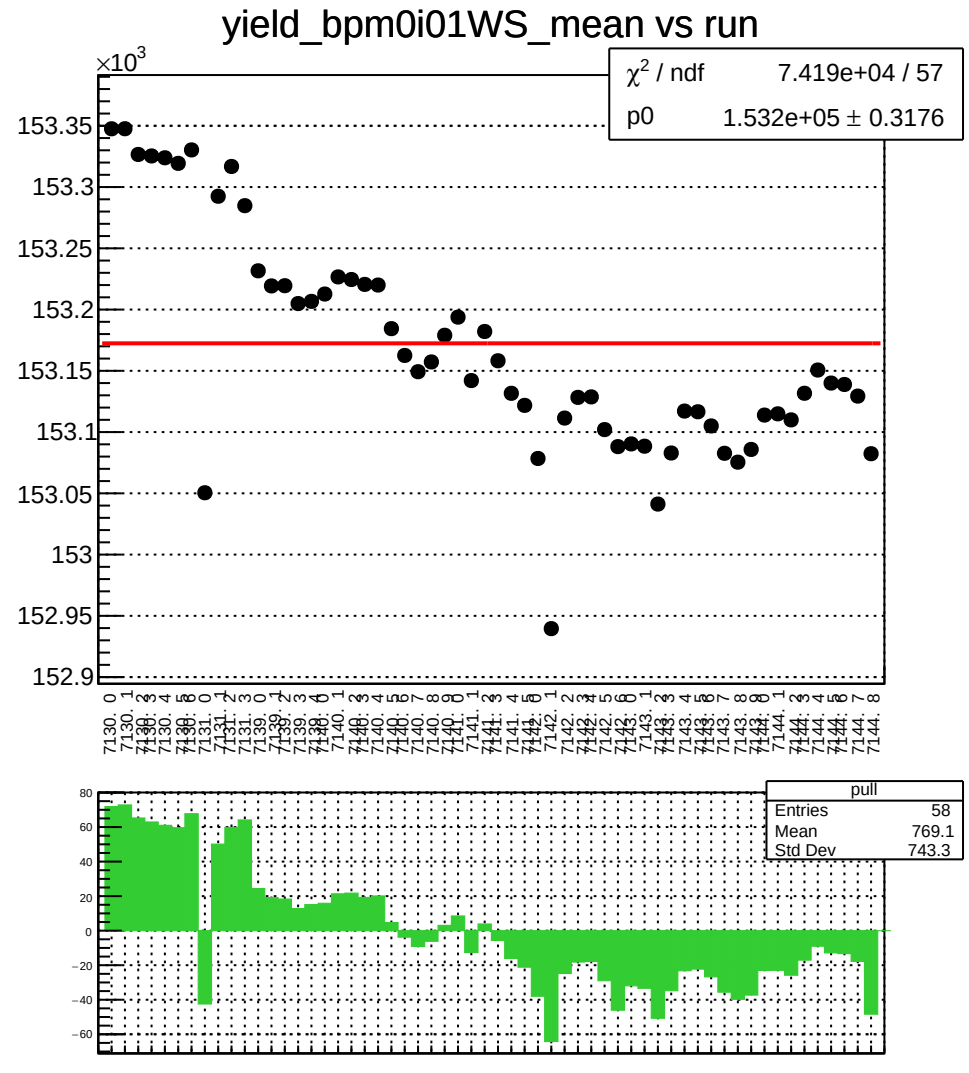

yield_cav4dQ_mean vs run
χ² / ndf 1.065e+06 / 57
p0 149 ± 0.0007789
151
150.5
150
149.5
149
148.5
pull
Entries 58
Mean −2012
Std Dev 2035
400
300
200
100
0
−100
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

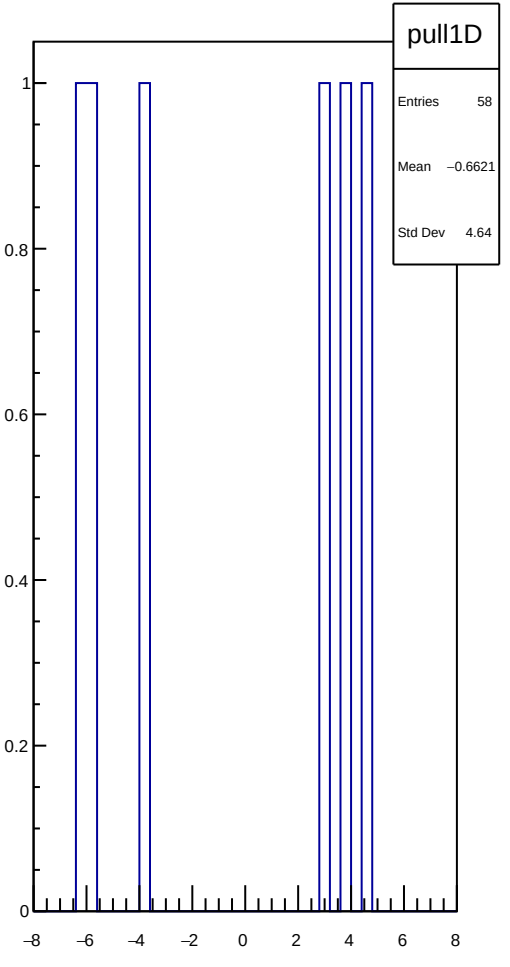

yield_cav4dQ_rms vs run
χ² / ndf 1.105e+04 / 57
p0 0.5768 ± 0.0005508
0.7
0.65
0.6
0.55
0.5
0.45

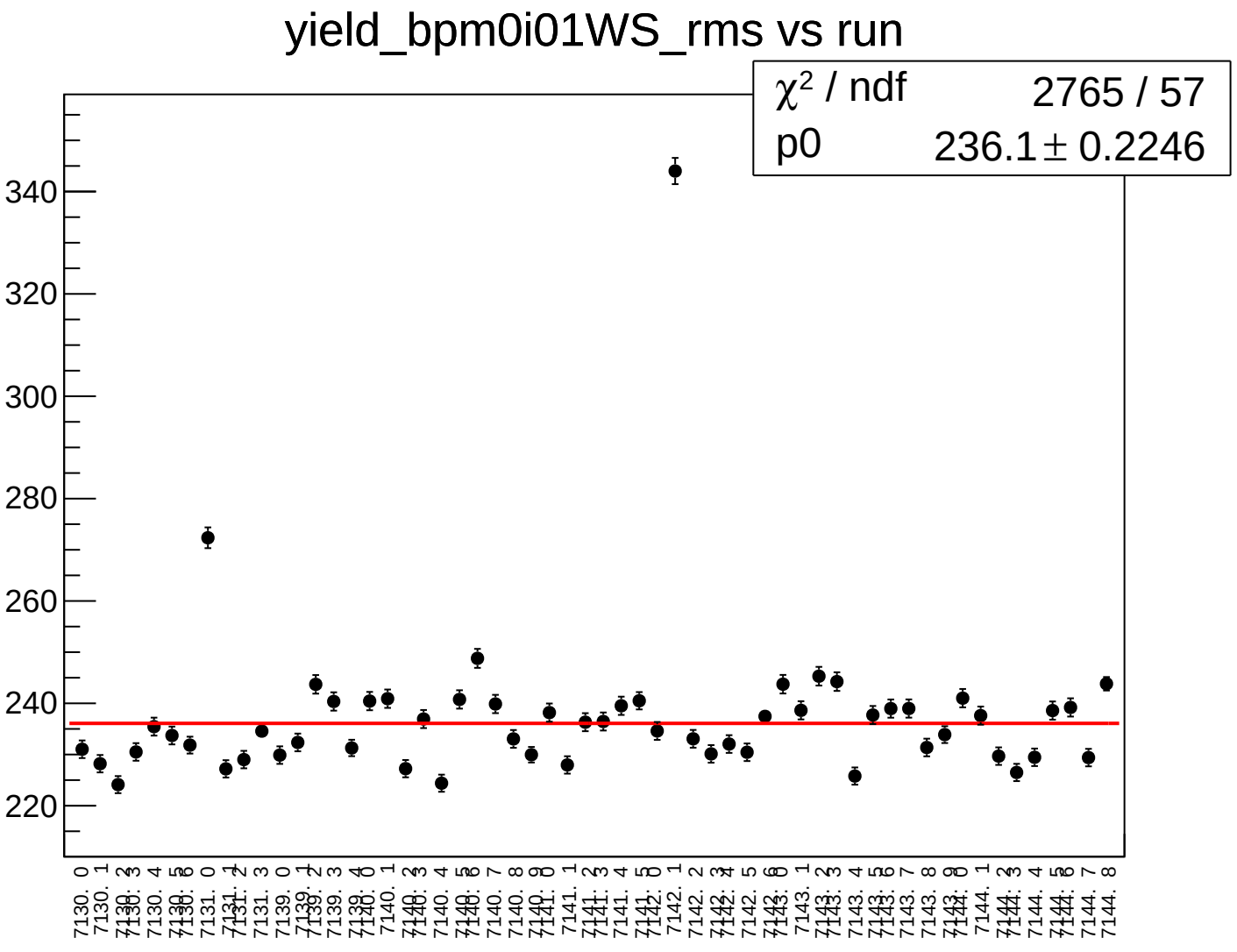

yield_bcm0l02_mean vs run
χ² / ndf 1.158e+08 / 57
p0 123.6 ± 0.001003
155
150
145
140
135
130
125
120
pull
Entries 58
Mean −117.1
Std Dev 139
3500
3000
2500
2000
1500
1000
500
0
−500

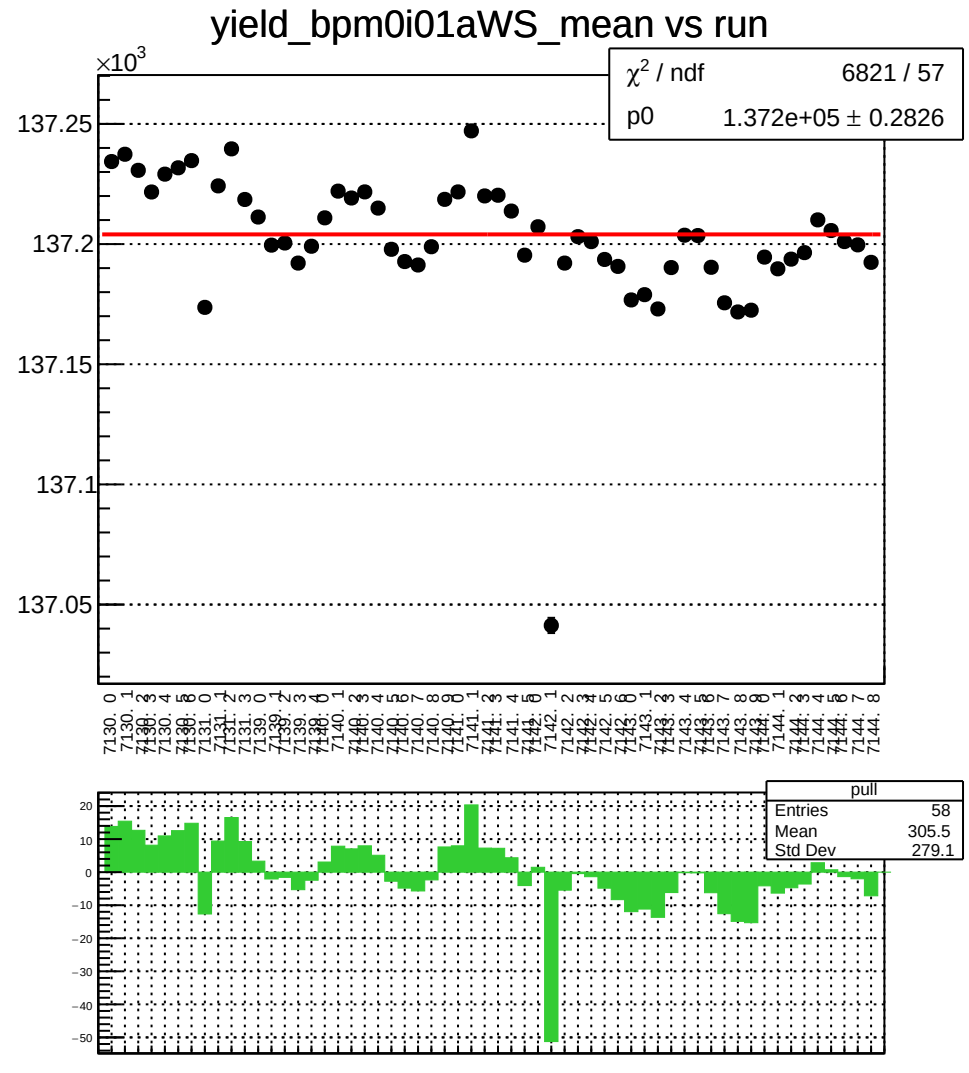

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

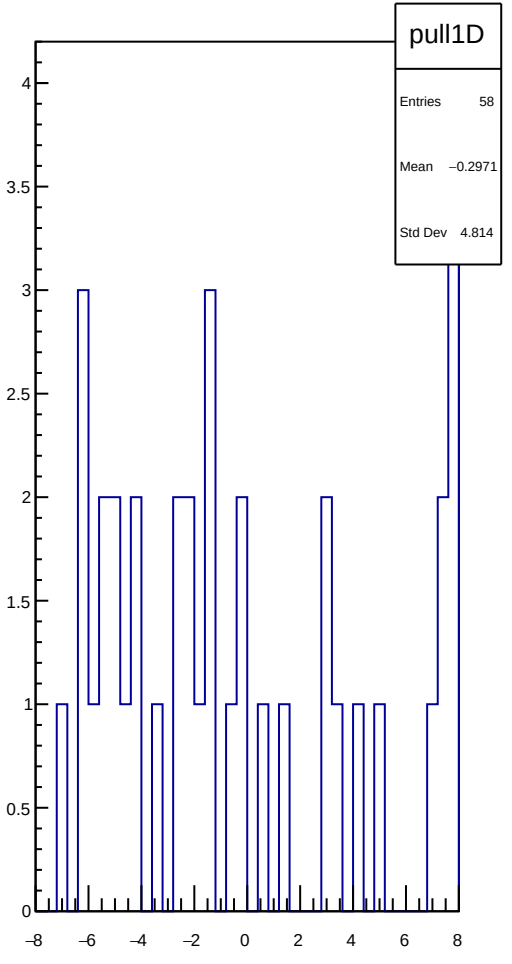

yield_bcm0l02_rms vs run
χ^2 / ndf 5.322e+04 / 57
p0 0.7286 ± 0.0007095
8
7
6
5
4
3
2
1

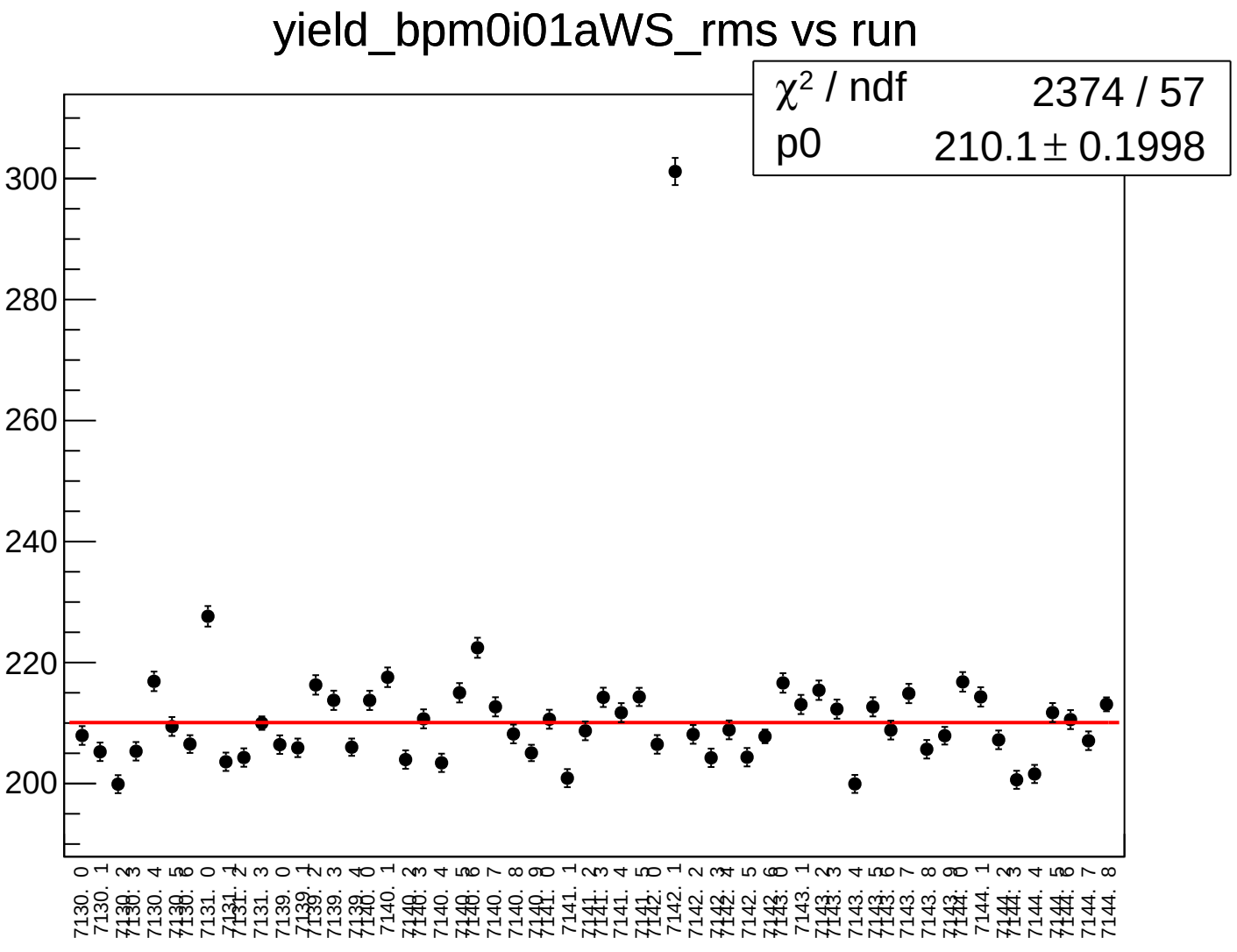

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 7.419e+04 / 57
p0 1.532e+05 ± 0.3176
153.35
153.3
153.25
153.2
153.15
153.1
153.05
153
152.95
152.9
pull
Entries 58
Mean 769.1
Std Dev 743.3
80
60
40
20
0
−20
−40
−60

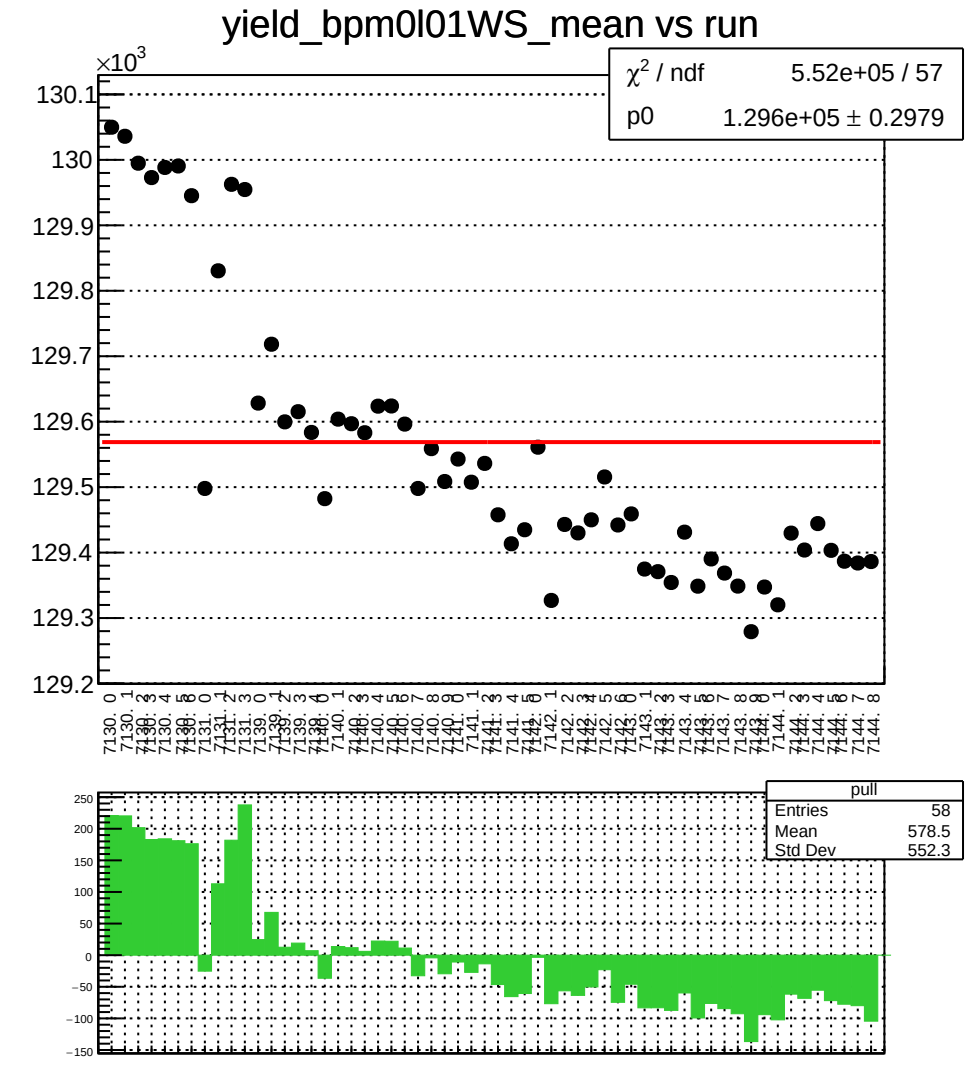

pull1D
Entries 58
Mean −0.6621
Std Dev 4.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

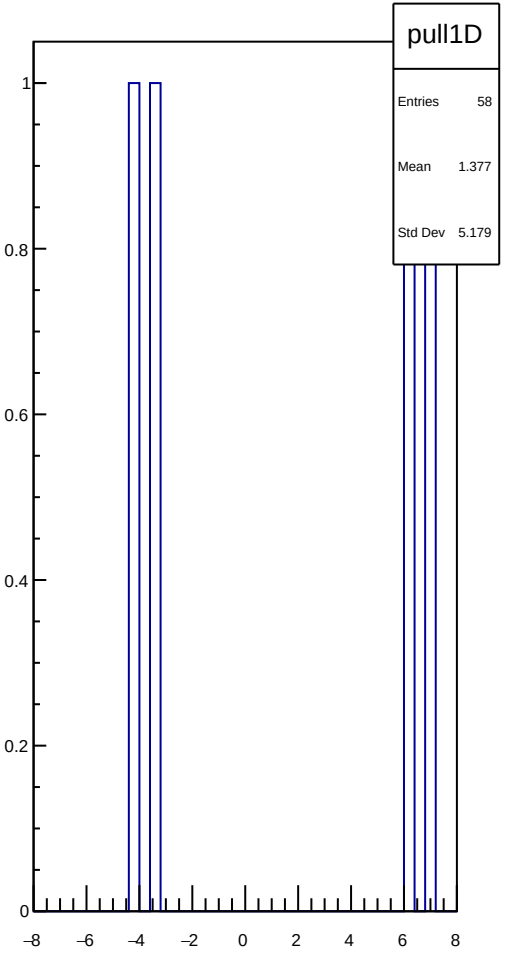

yield_bpm0i01WS_rms vs run
χ² / ndf 2765 / 57
p0 236.1 ± 0.2246
340
320
300
280
260
240
220

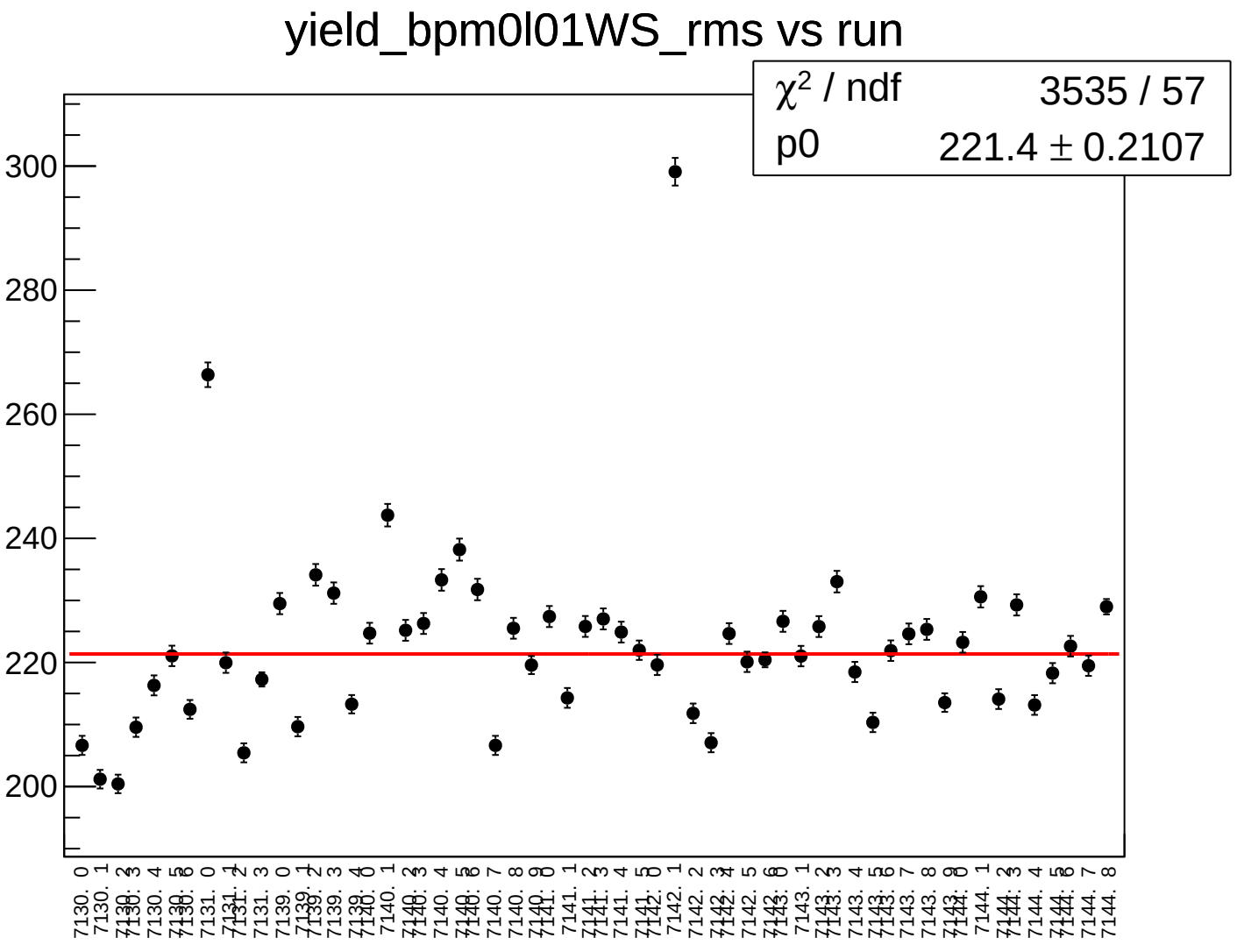

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 6821 / 57
p0 1.372e+05 ± 0.2826
137.25
137.2
137.15
137.1
137.05
pull
Entries 58
Mean 305.5
Std Dev 279.1
20
10
0
−10
−20
−30
−40
−50

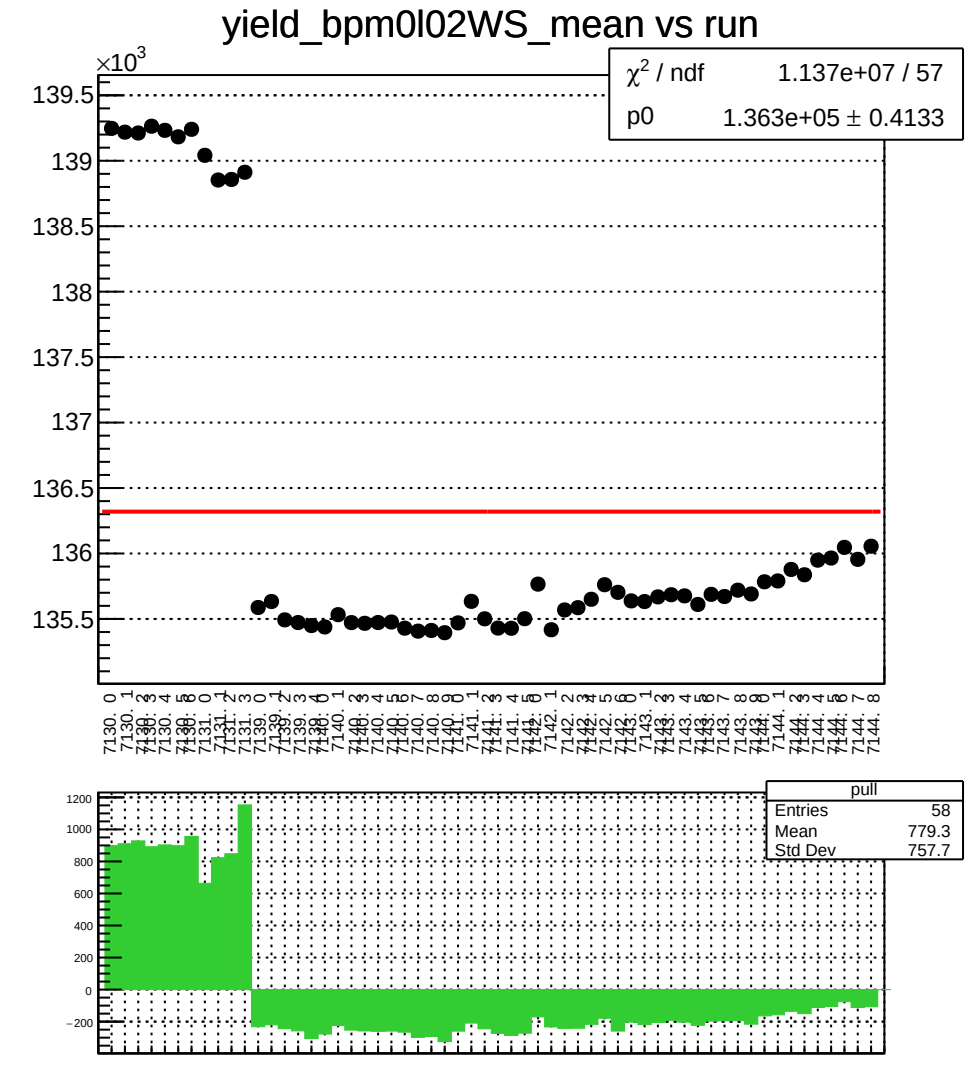

pull1D
Entries 58
Mean −0.2971
Std Dev 4.814
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

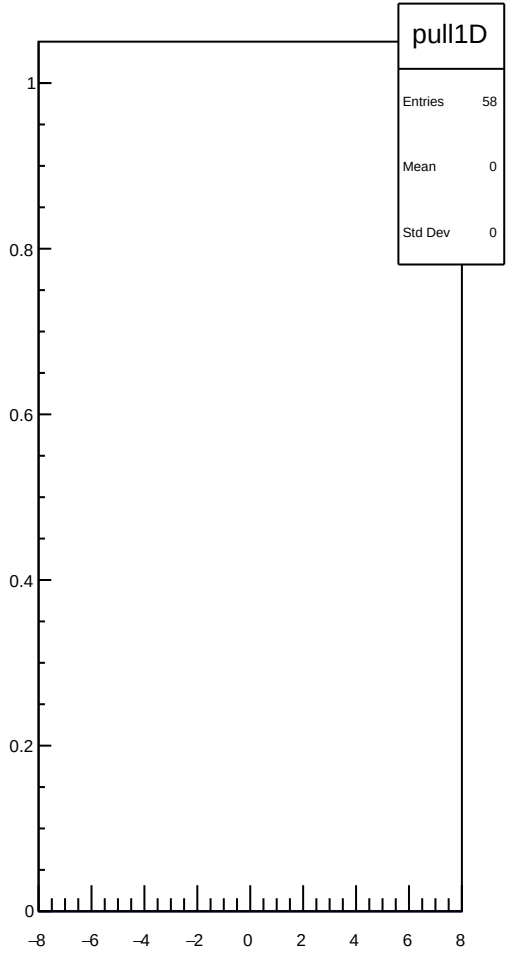

yield_bpm0i01aWS_rms vs run
χ² / ndf 2374 / 57
p0 210.1 ± 0.1998
300
280
260
240
220
200

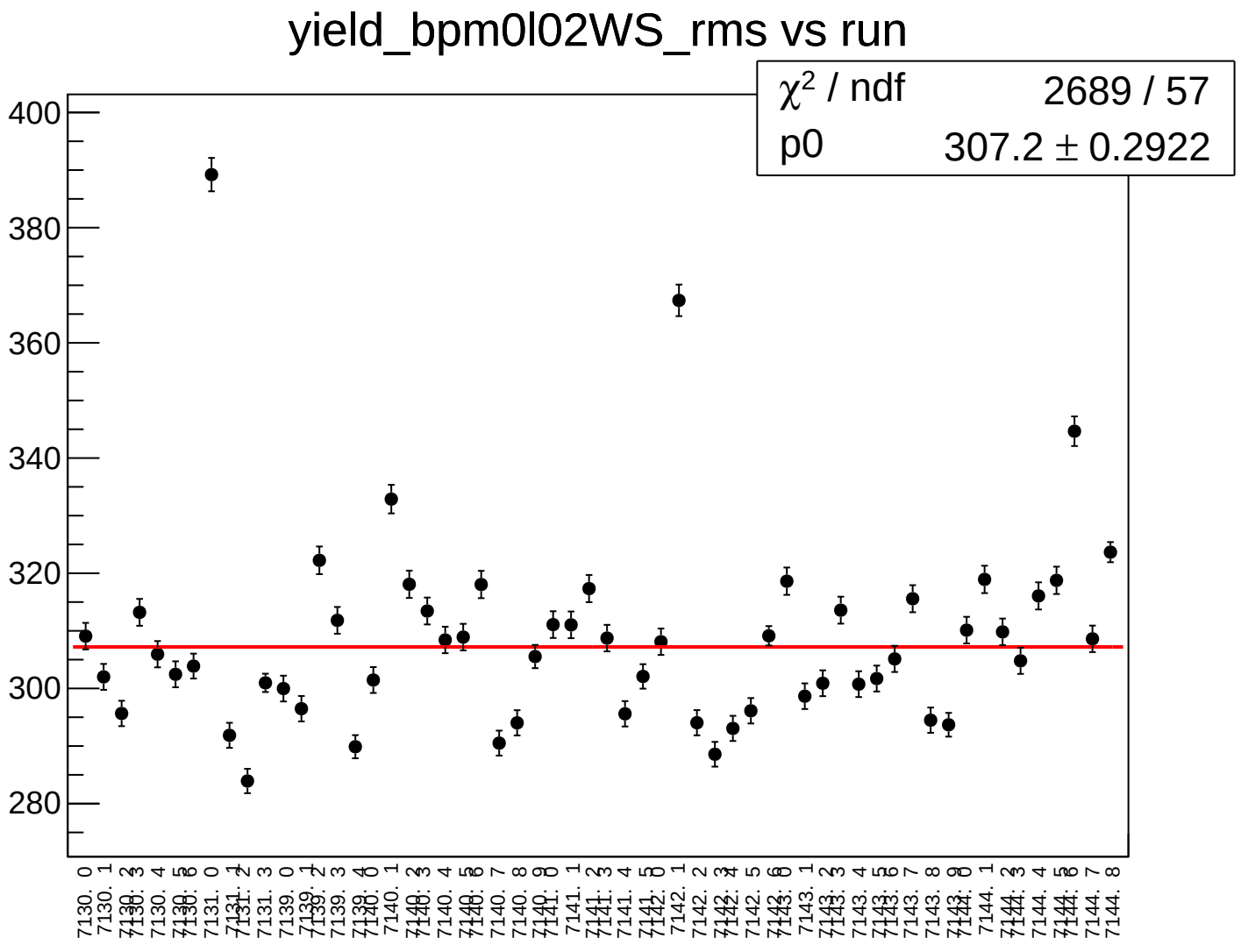

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 5.52e+05 / 57
p0 1.296e+05 ± 0.2979
130.1
130
129.9
129.8
129.7
129.6
129.5
129.4
129.3
129.2
pull
Entries 58
Mean 578.5
Std Dev 552.3
250
200
150
100
50
0
−50
−100
−150

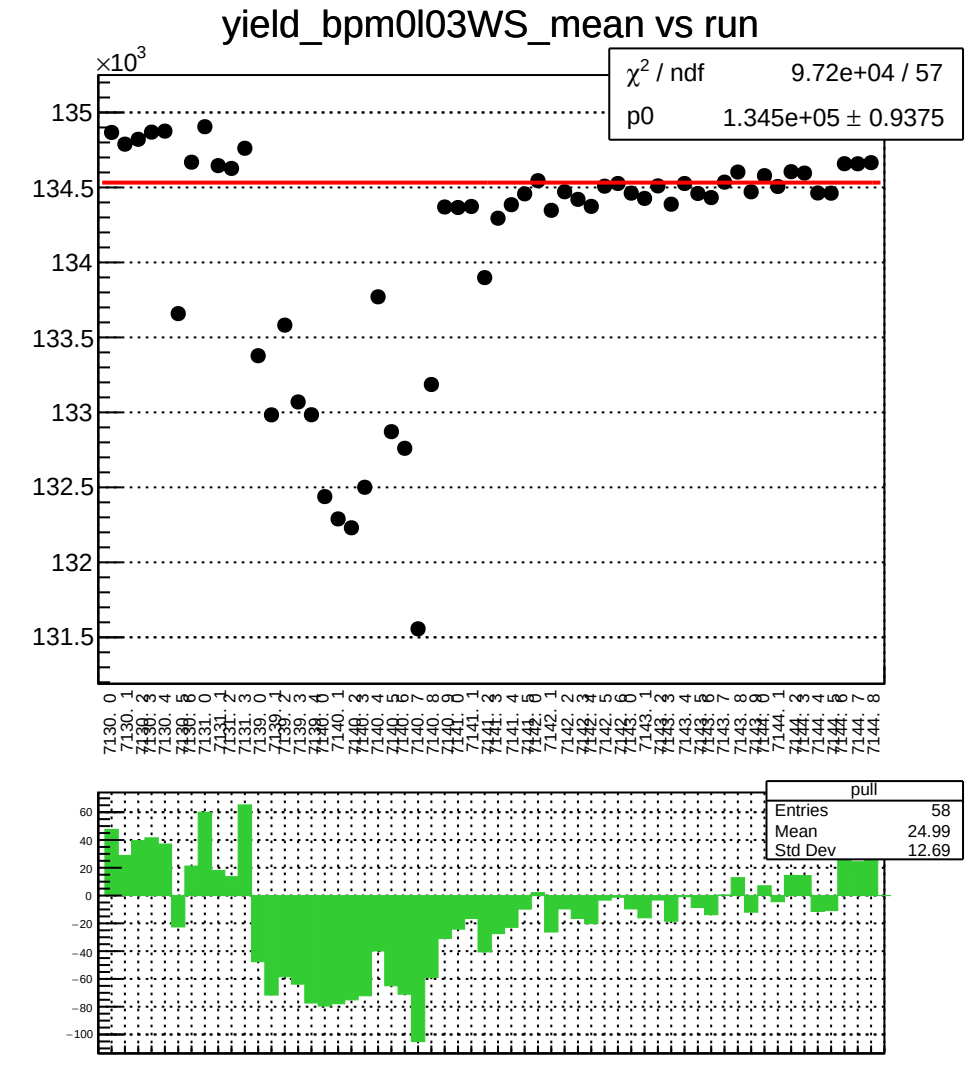

pull1D
Entries 58
Mean 1.377
Std Dev 5.179
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

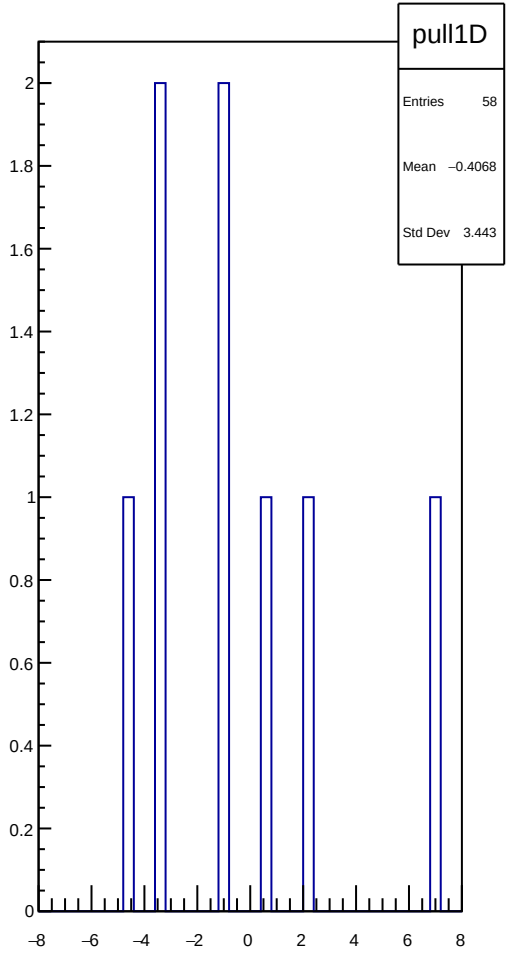

yield_bpm0l01WS_rms vs run
χ² / ndf 3535 / 57
p0 221.4 ± 0.2107
300
280
260
240
220
200

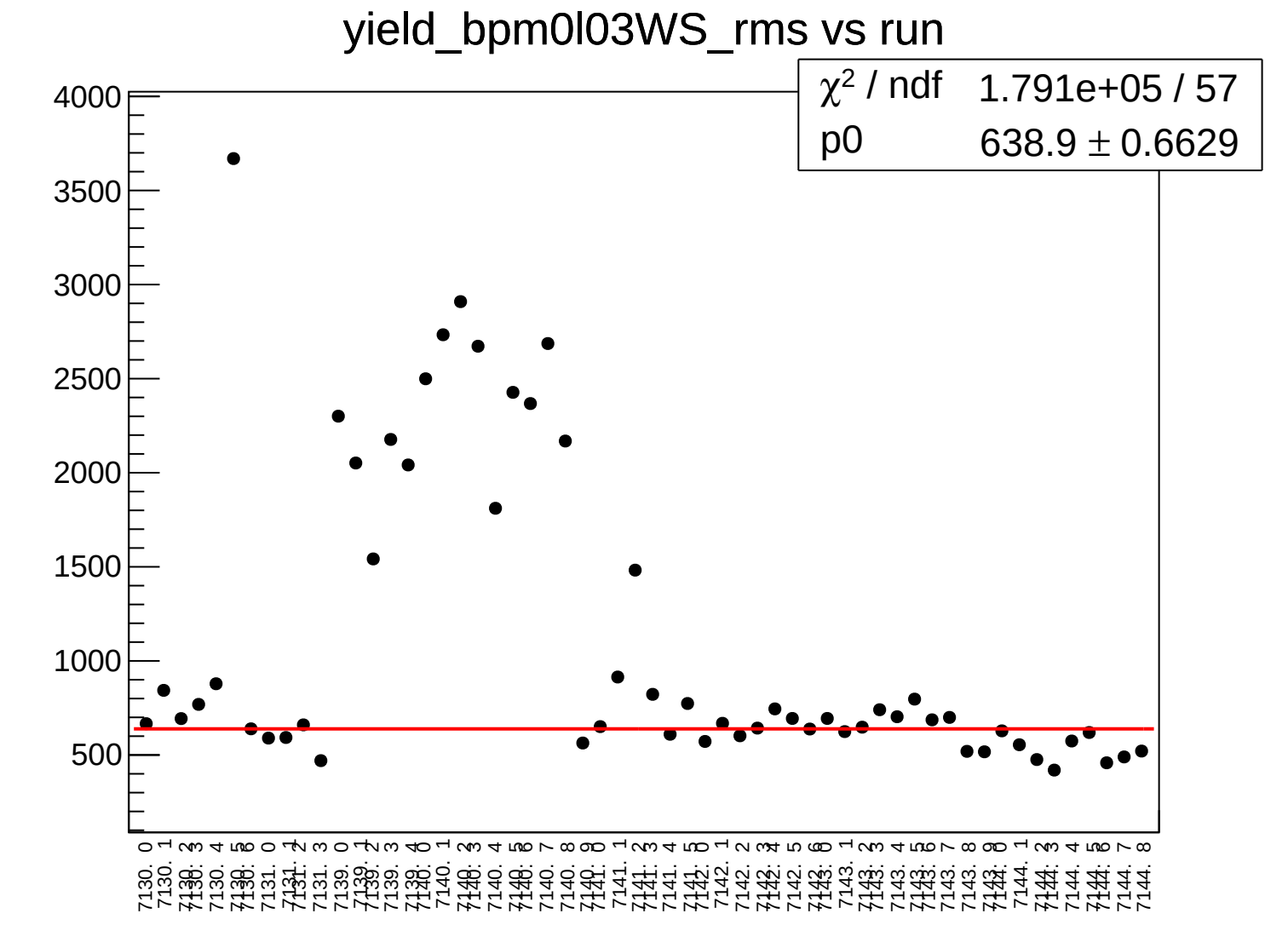

yield_bpm0l02WS_mean vs run
×10^3
χ^2 / ndf 1.137e+07 / 57
p0 1.363e+05 ± 0.4133
pull
Entries 58
Mean 779.3
Std Dev 757.7

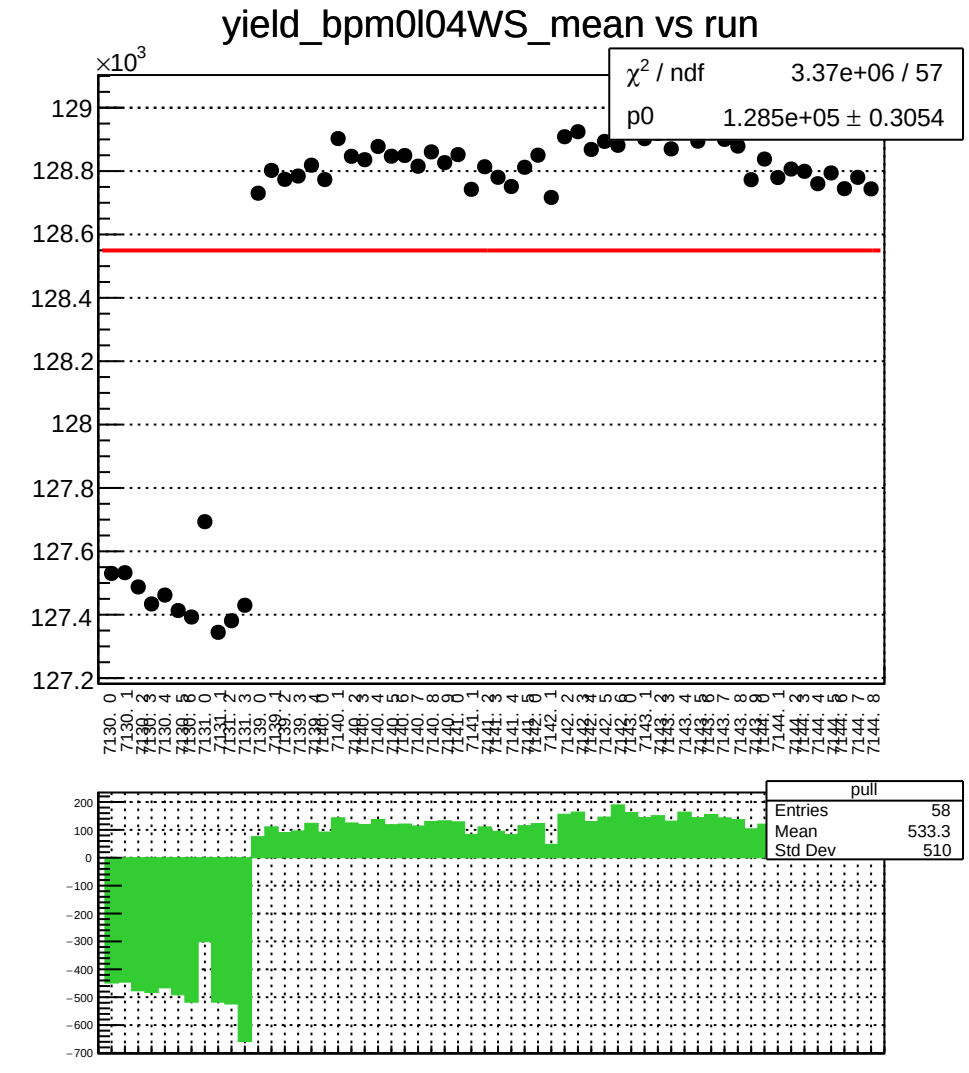

pull1D
Entries 58
Mean 0
Std Dev 0

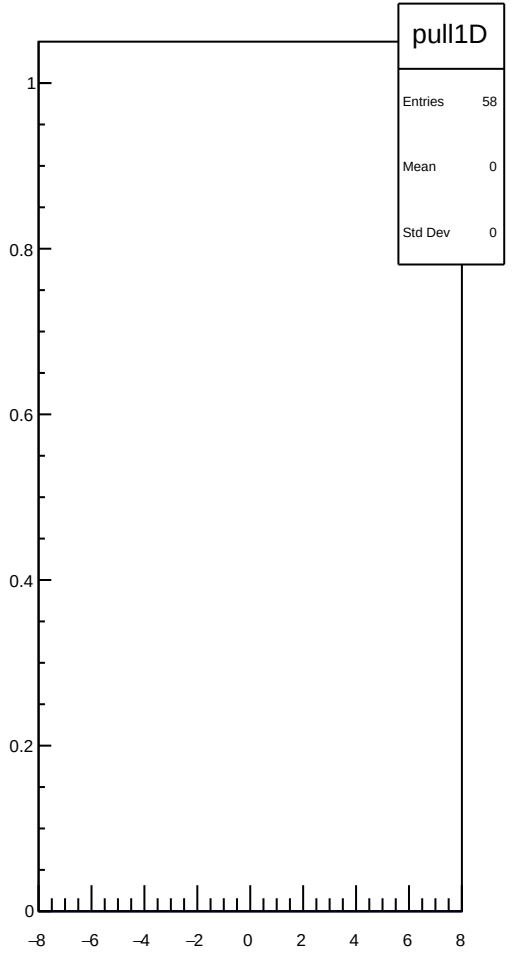

yield_bpm0l02WS_rms vs run
χ² / ndf 2689 / 57
p0 307.2 ± 0.2922
400
380
360
340
320
300
280

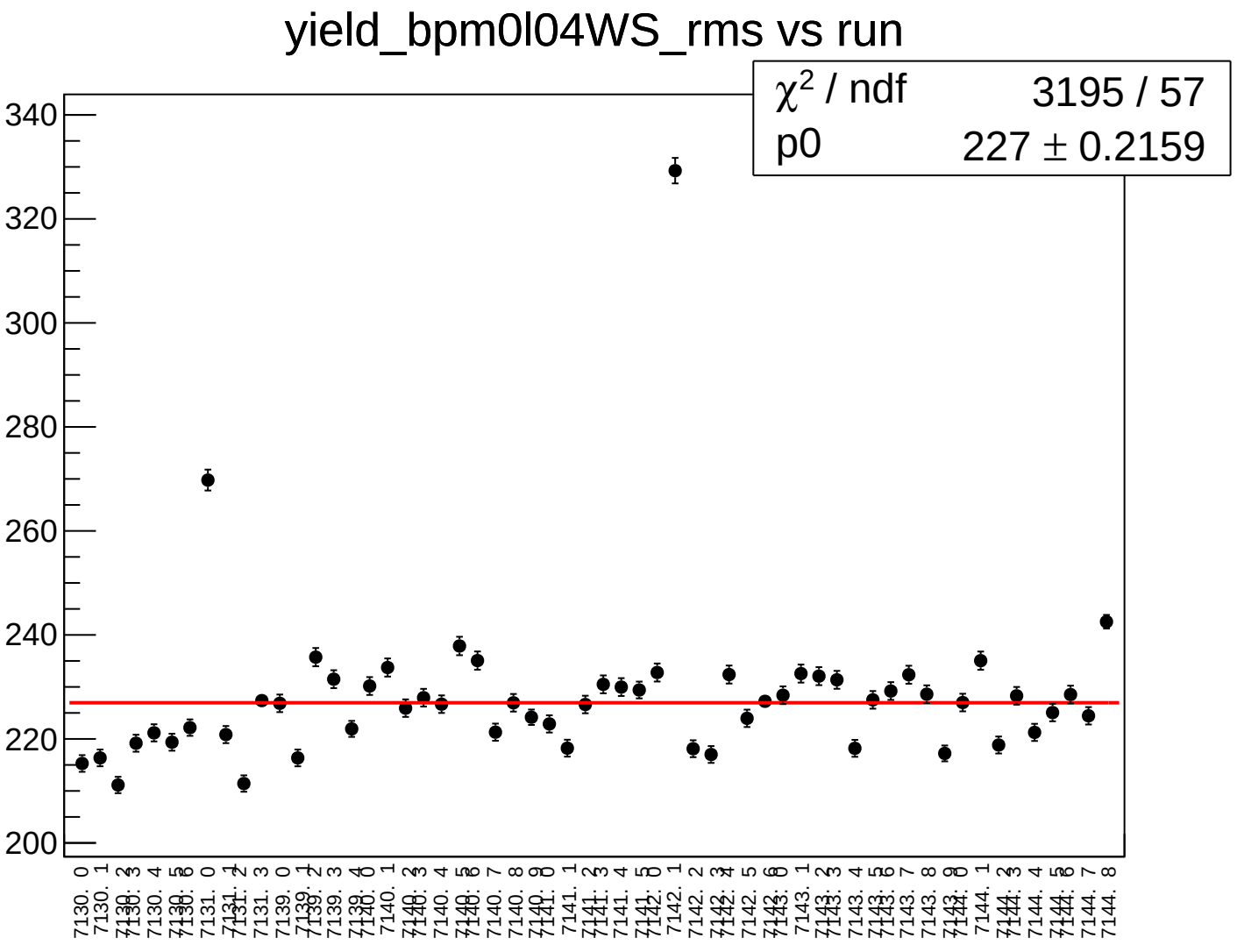

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 9.72e+04 / 57
p0 1.345e+05 ± 0.9375
135
134.5
134
133.5
133
132.5
132
131.5
pull
Entries 58
Mean 24.99
Std Dev 12.69
60
40
20
0
−20
−40
−60
−80
−100

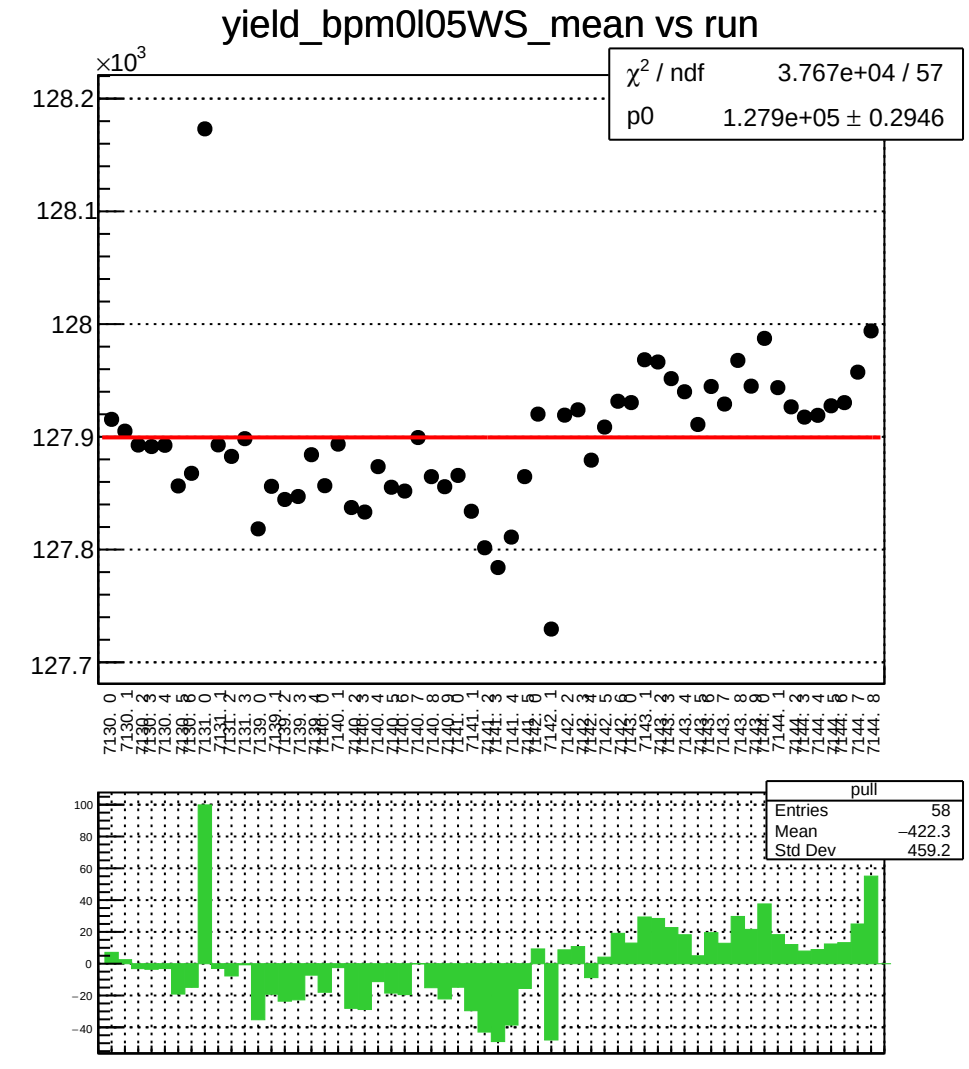

pull1D
Entries 58
Mean −0.4068
Std Dev 3.443
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

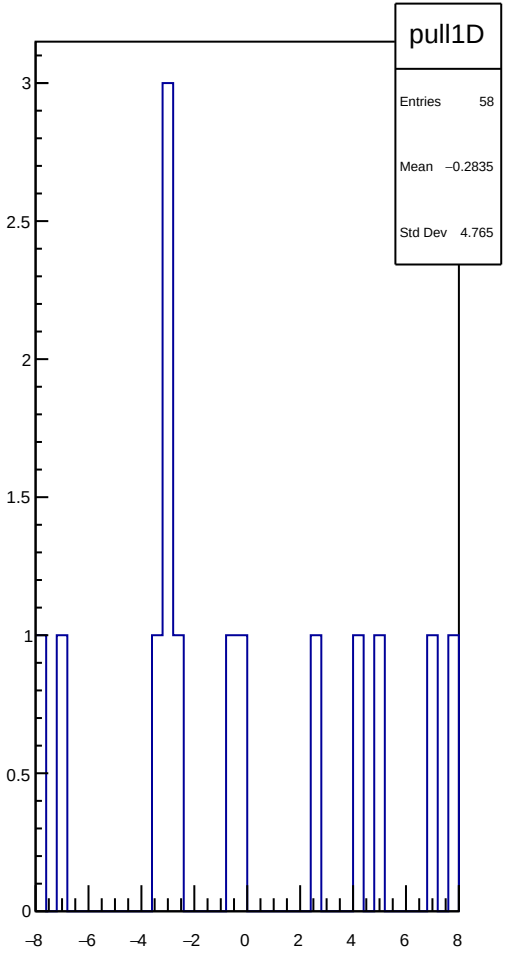

yield_bpm0l03WS_rms vs run
χ² / ndf 1.791e+05 / 57
p0 638.9 ± 0.6629
4000
3500
3000
2500
2000
1500
1000
500

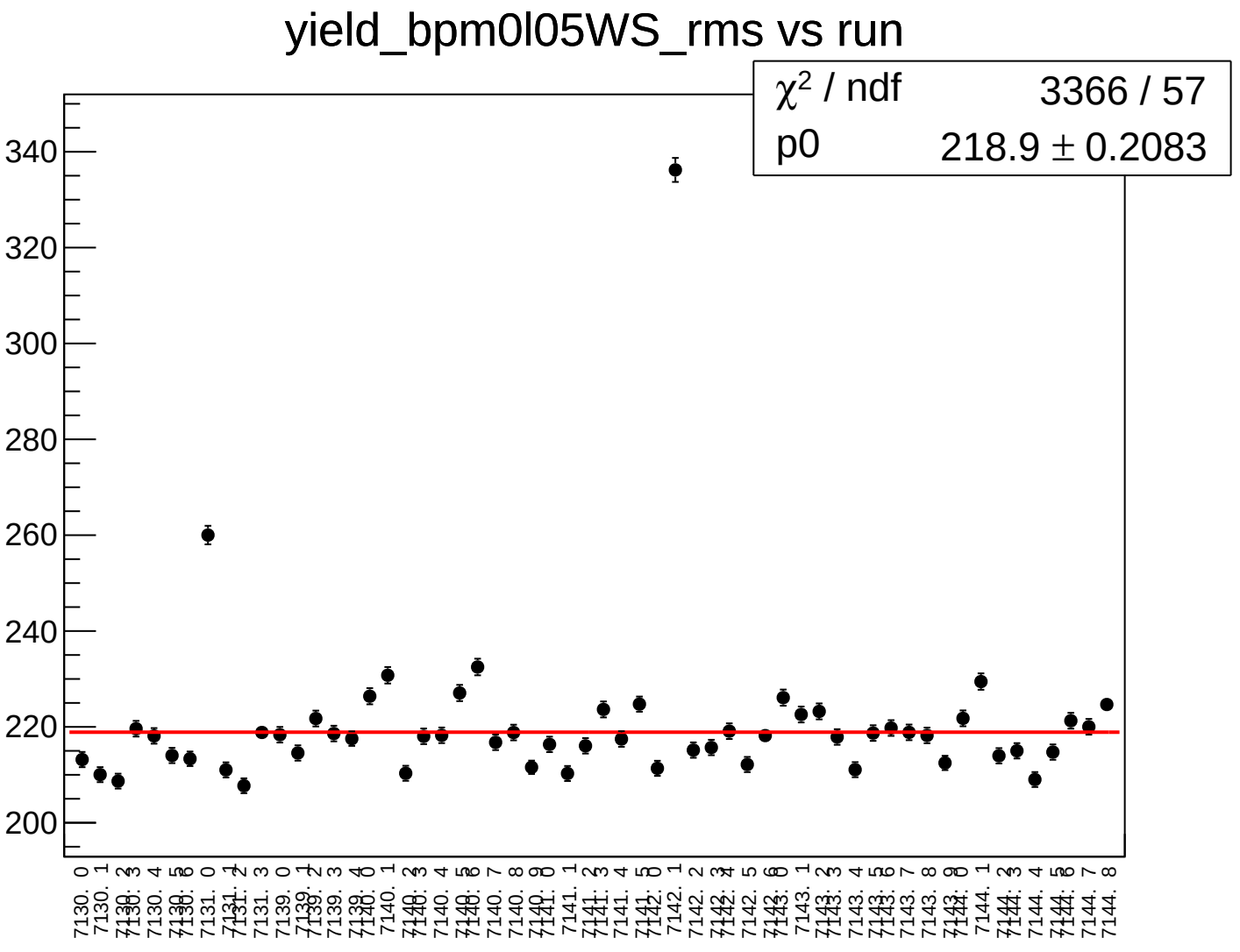

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.37e+06 / 57
p0 1.285e+05 ± 0.3054
129
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
pull
Entries 58
Mean 533.3
Std Dev 510
200
100
0
−100
−200
−300
−400
−500
−600
−700

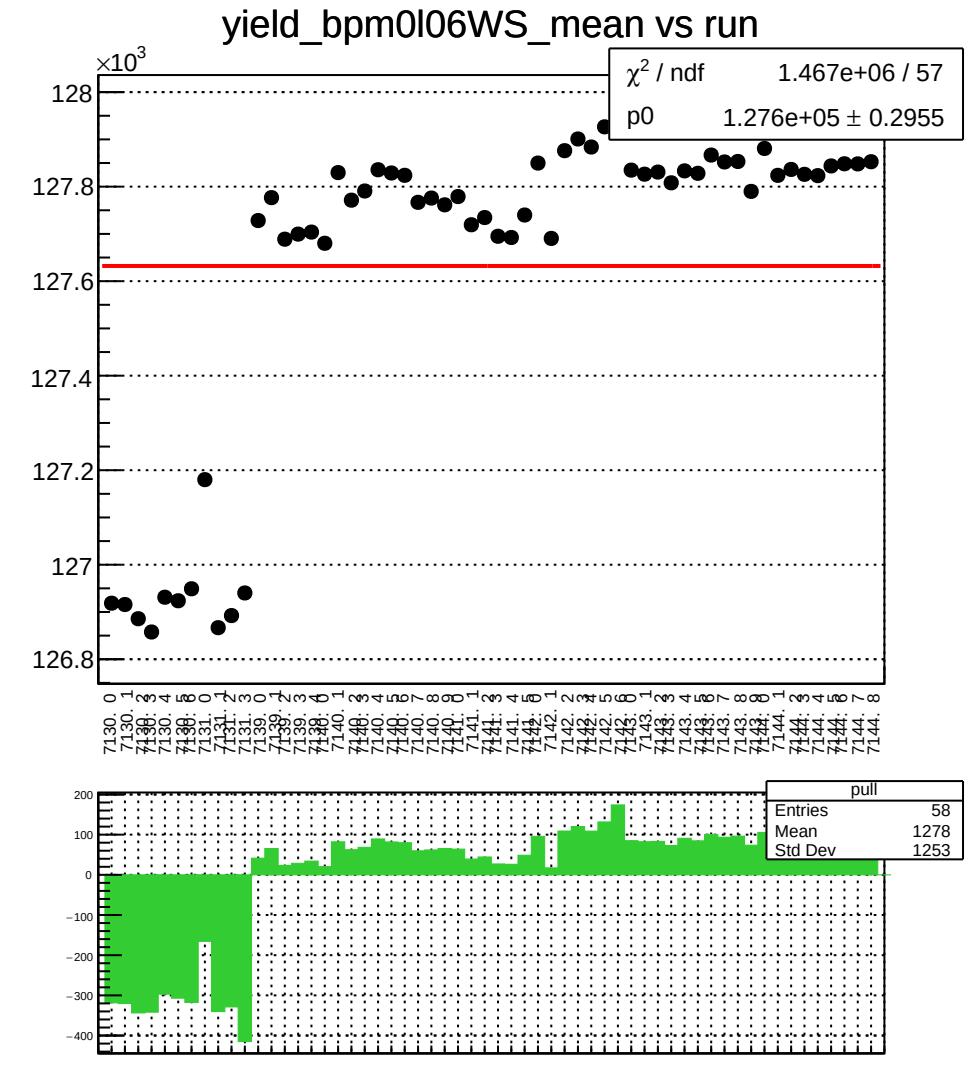

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

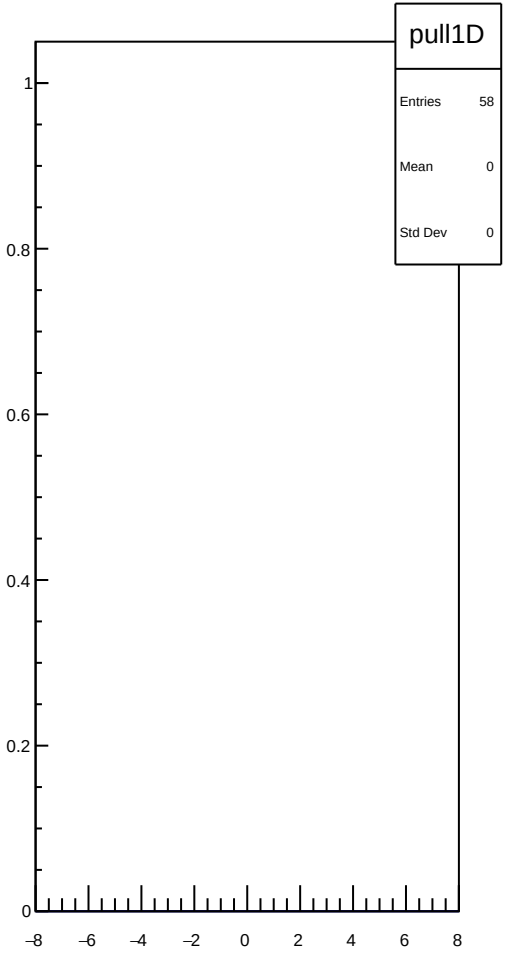

yield_bpm0l04WS_rms vs run
χ² / ndf 3195 / 57
p0 227 ± 0.2159
340
320
300
280
260
240
220
200

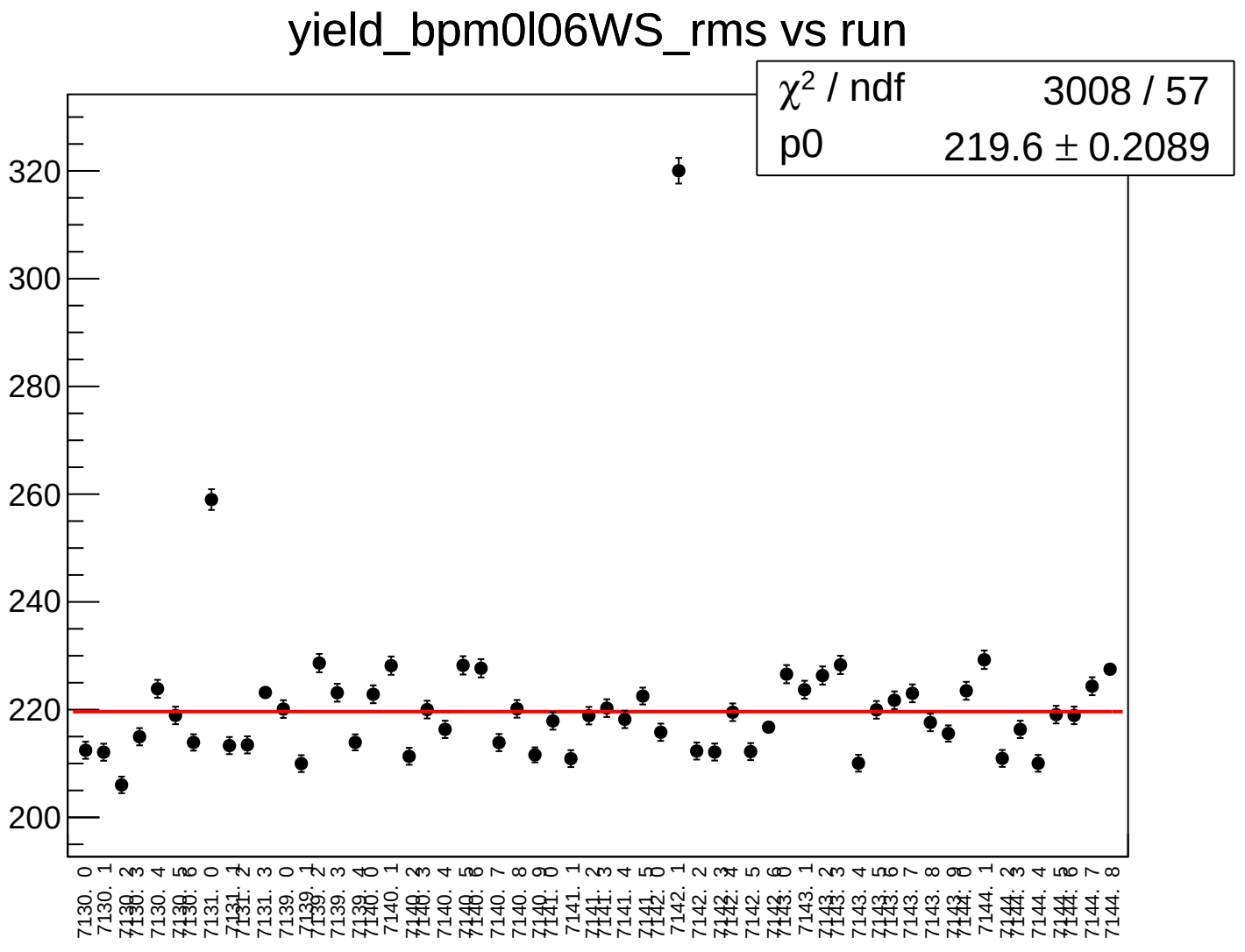

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.767e+04 / 57
p0 1.279e+05 ± 0.2946
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 58
Mean −422.3
Std Dev 459.2
100
80
60
40
20
0
−20
−40

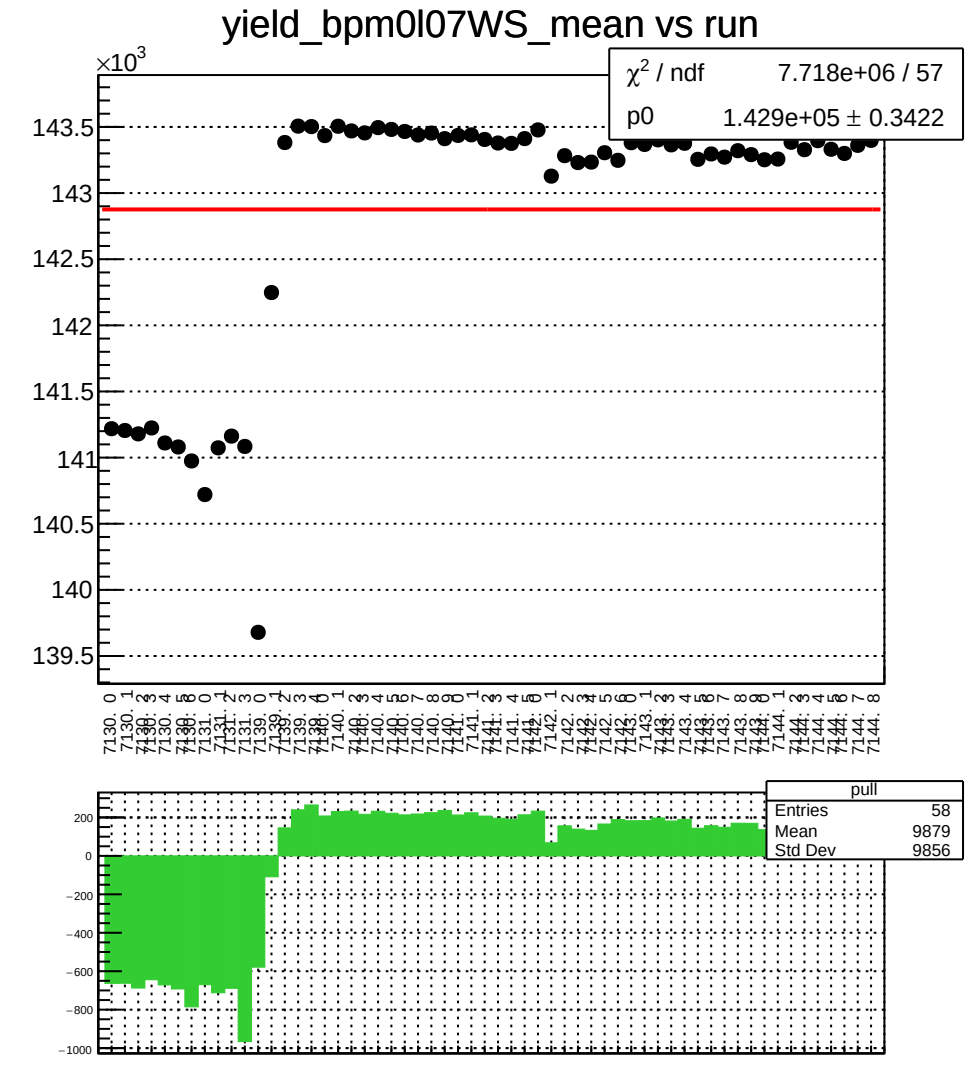

pull1D
Entries 58
Mean −0.2835
Std Dev 4.765
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

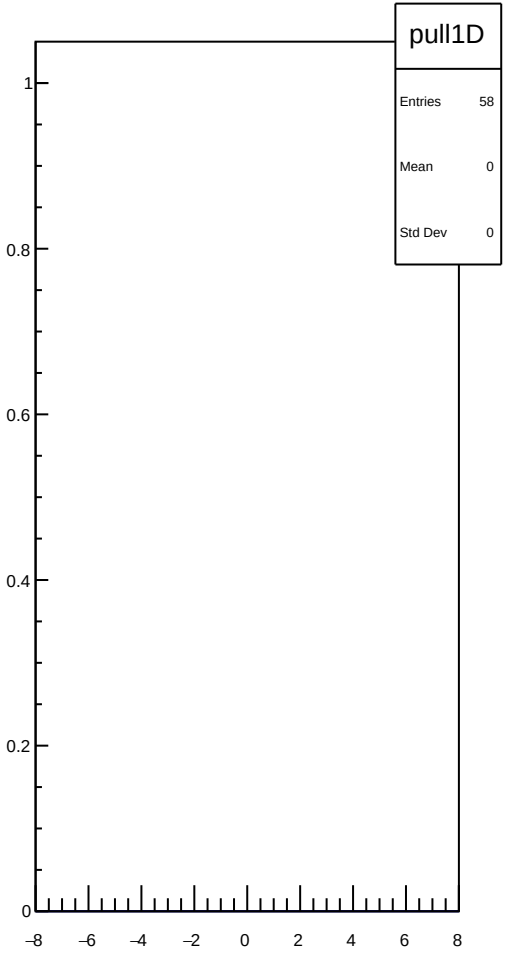

yield_bpm0l05WS_rms vs run
χ² / ndf 3366 / 57
p0 218.9 ± 0.2083
340
320
300
280
260
240
220
200

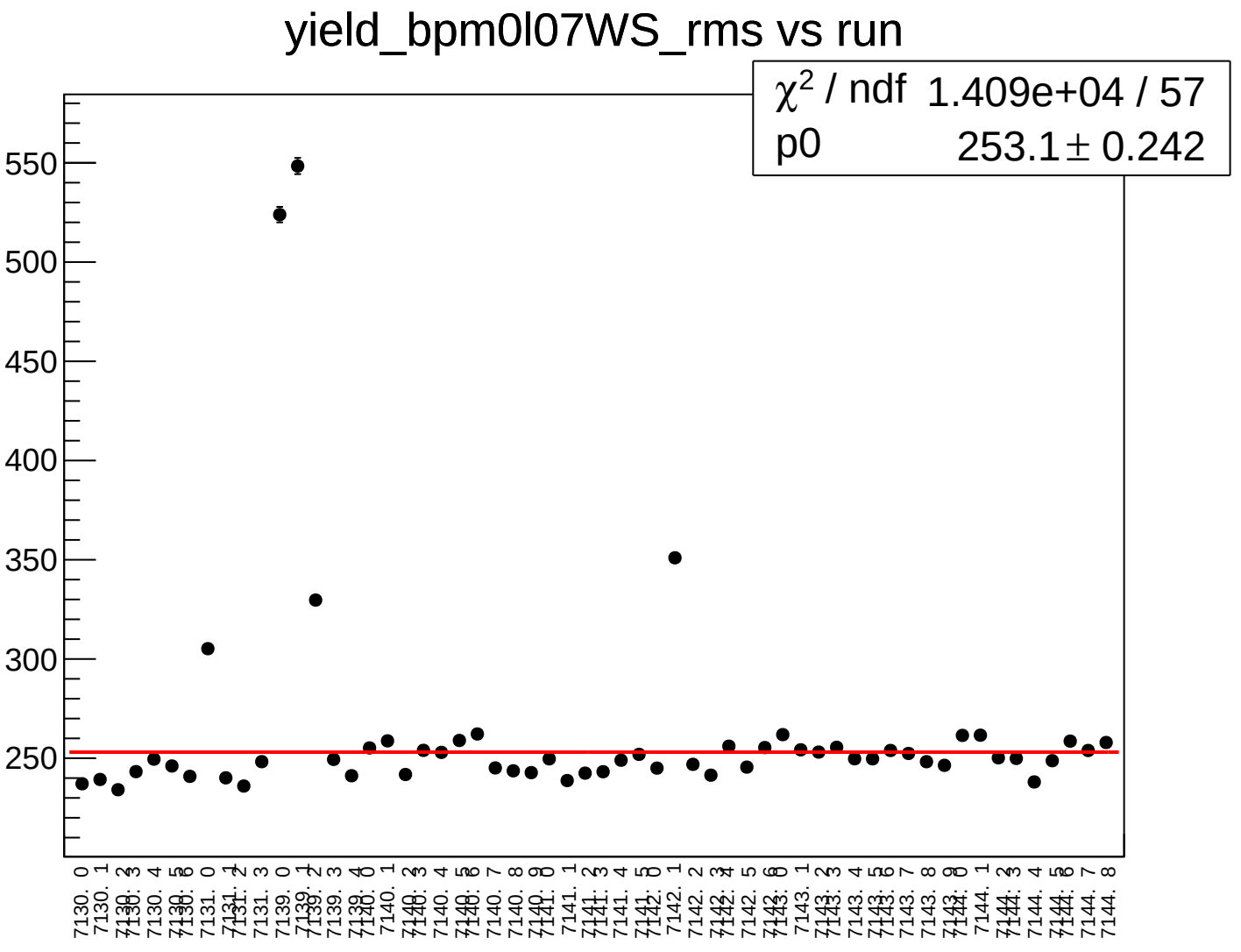

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.467e+06 / 57
p0 1.276e+05 ± 0.2955
128
127.8
127.6
127.4
127.2
127
126.8
pull
Entries 58
Mean 1278
Std Dev 1253
200
100
0
−100
−200
−300
−400

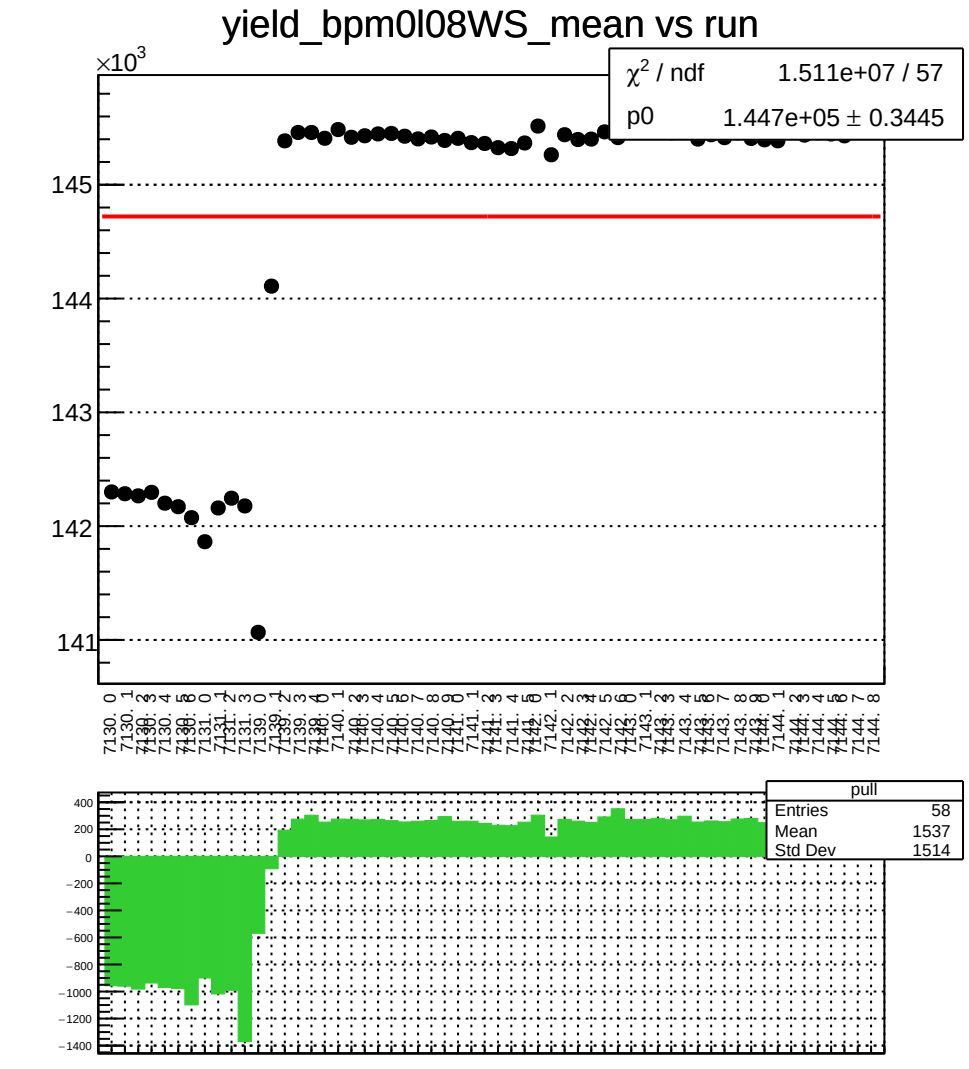

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

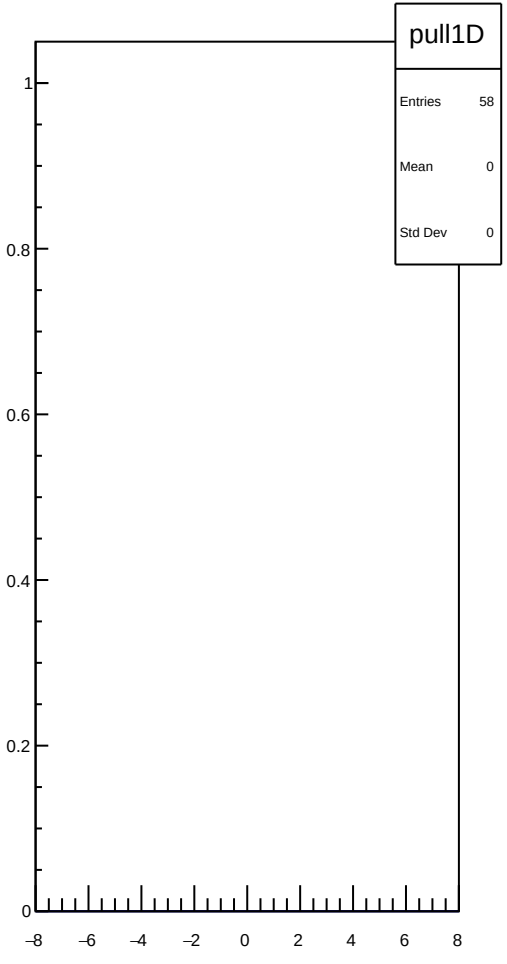

yield_bpm0l06WS_rms vs run
χ² / ndf 3008 / 57
p0 219.6 ± 0.2089
320
300
280
260
240
220
200

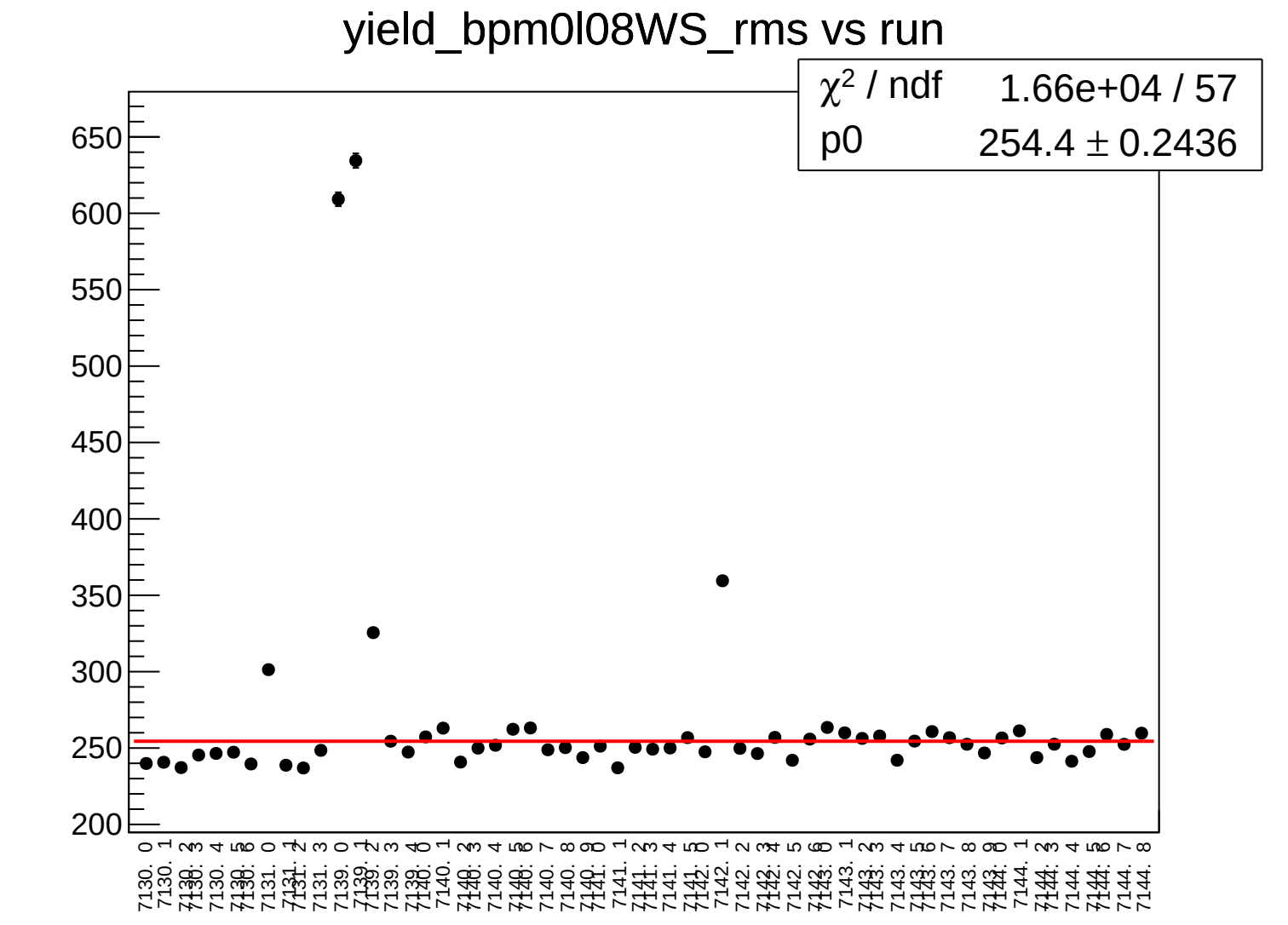

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 7.718e+06 / 57
p0 1.429e+05 ± 0.3422
143.5
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 58
Mean 9879
Std Dev 9856
200
0
−200
−400
−600
−800
−1000

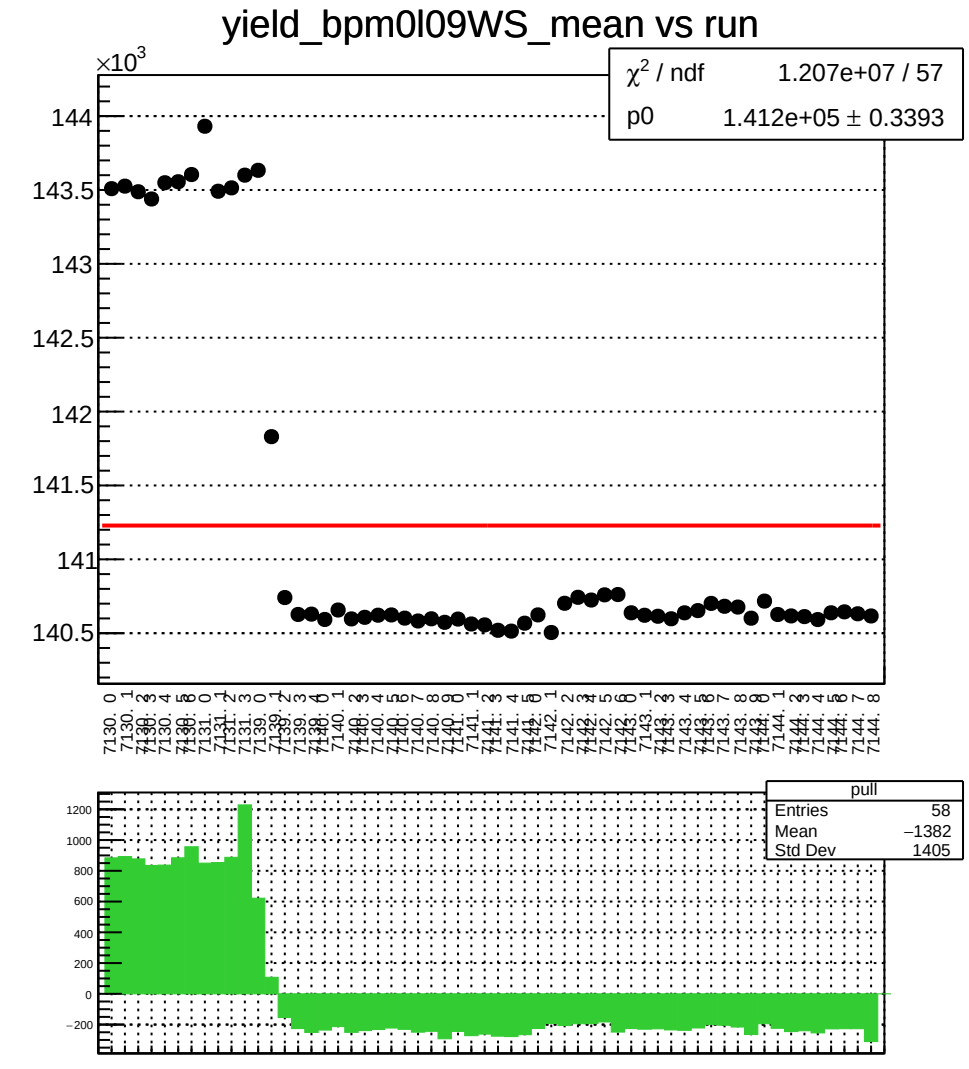

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

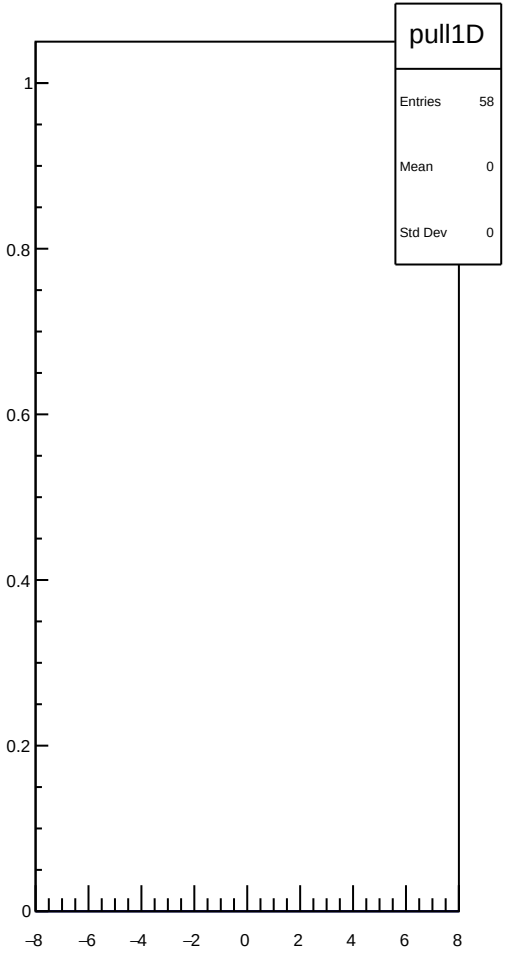

yield_bpm0l07WS_rms vs run
χ^2 / ndf 1.409e+04 / 57
p0 253.1 ± 0.242
550
500
450
400
350
300
250

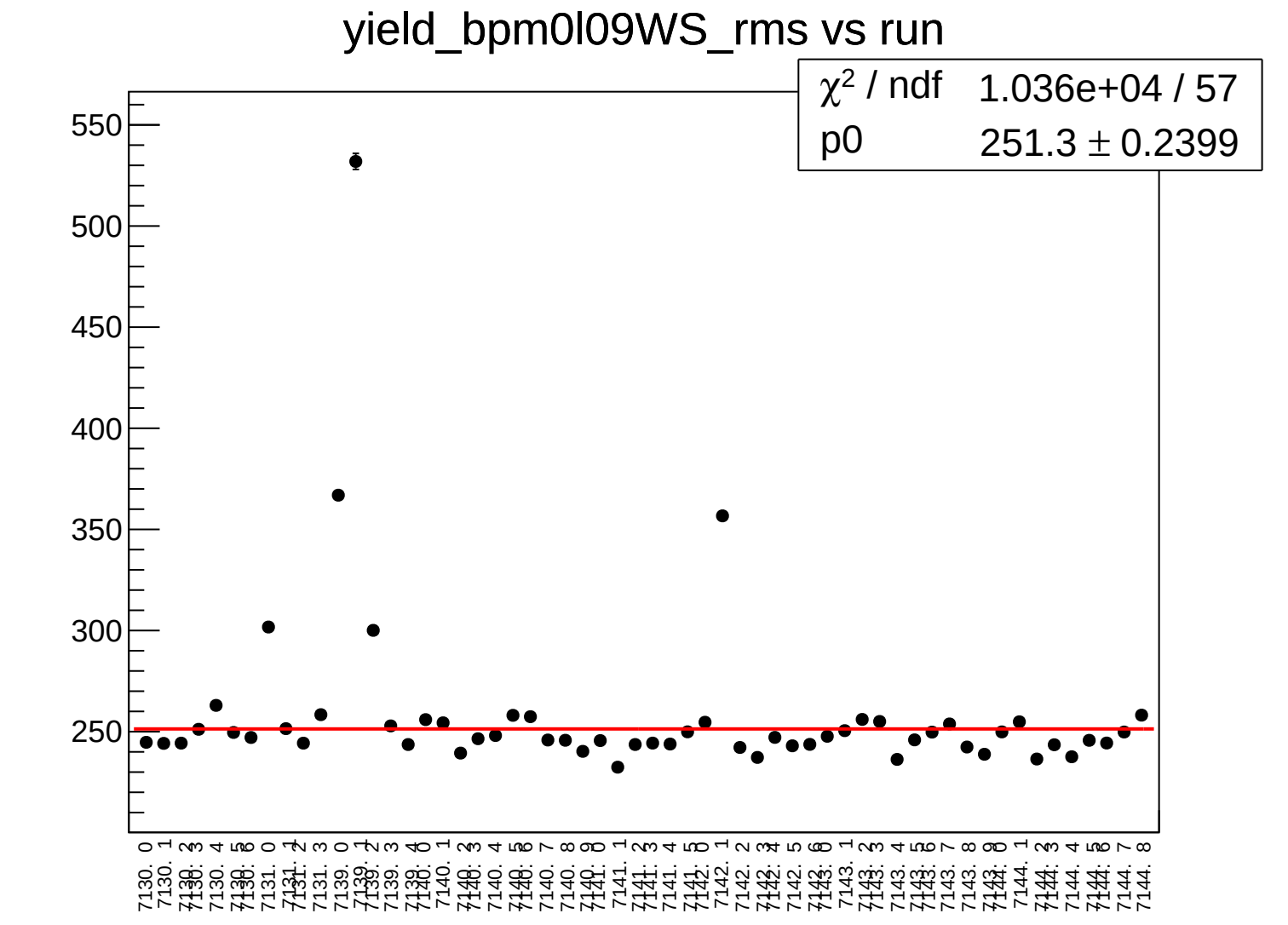

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1.511e+07 / 57
p0 1.447e+05 ± 0.3445
145
144
143
142
141
pull
Entries 58
Mean 1537
Std Dev 1514
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

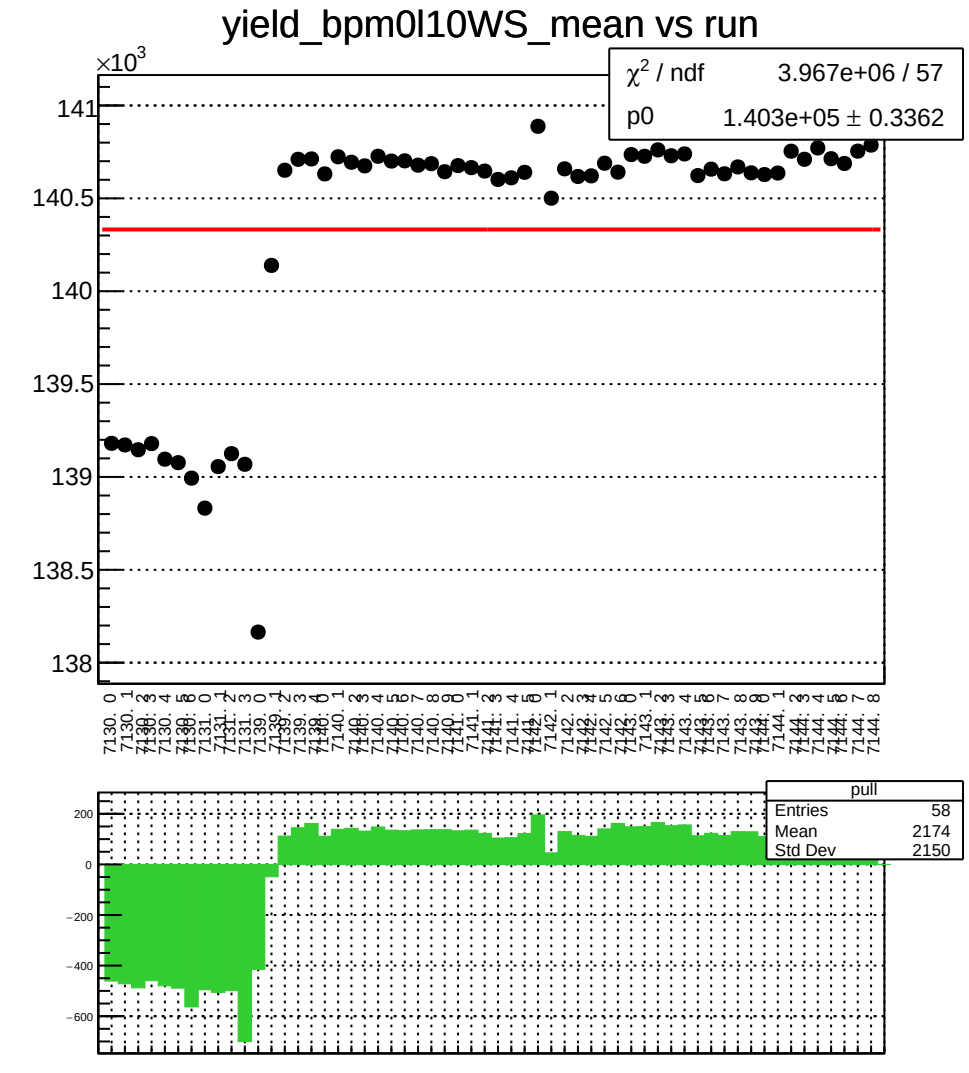

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

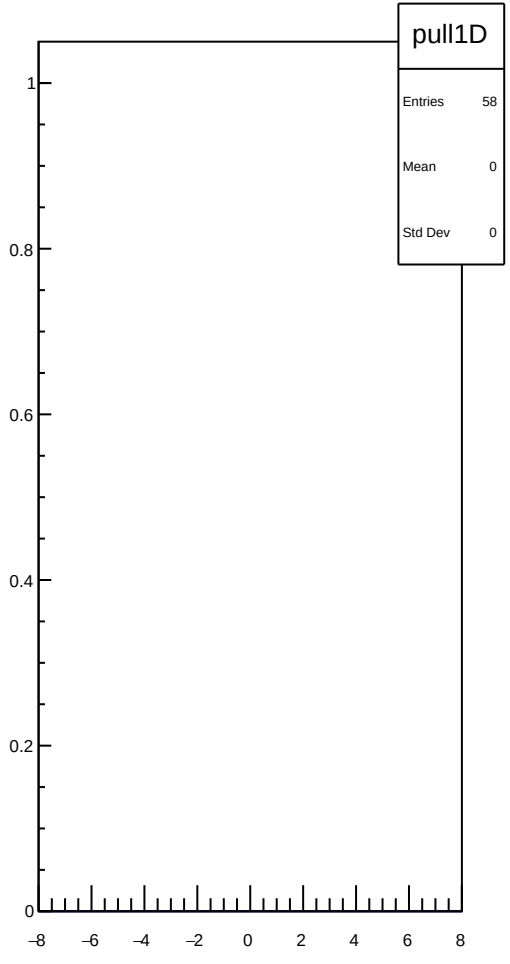

yield_bpm0l08WS_rms vs run
χ² / ndf 1.66e+04 / 57
p0 254.4 ± 0.2436
650
600
550
500
450
400
350
300
250
200

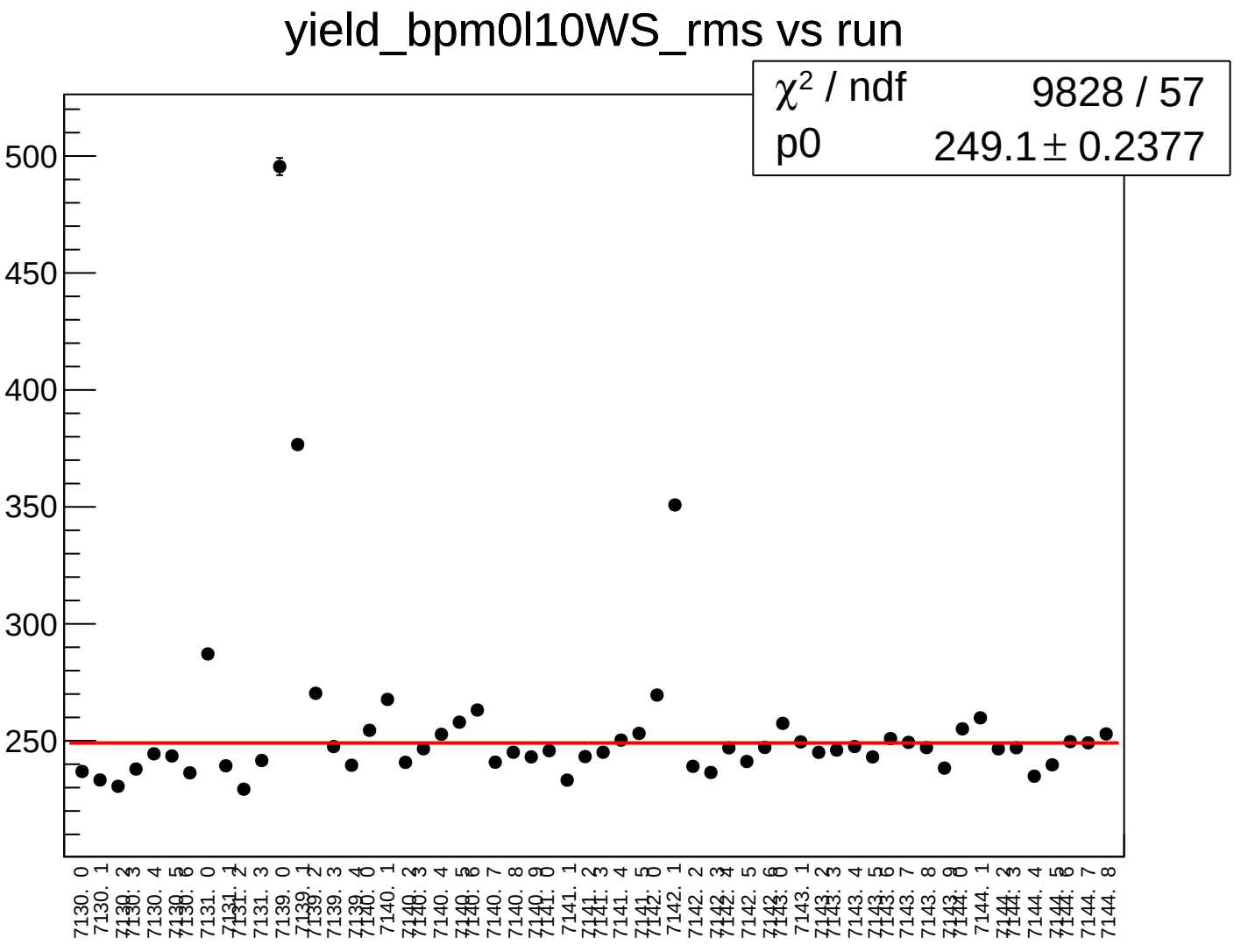

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.207e+07 / 57
p0 1.412e+05 ± 0.3393
144
143.5
143
142.5
142
141.5
141
140.5
pull
Entries 58
Mean −1382
Std Dev 1405
1200
1000
800
600
400
200
0
−200

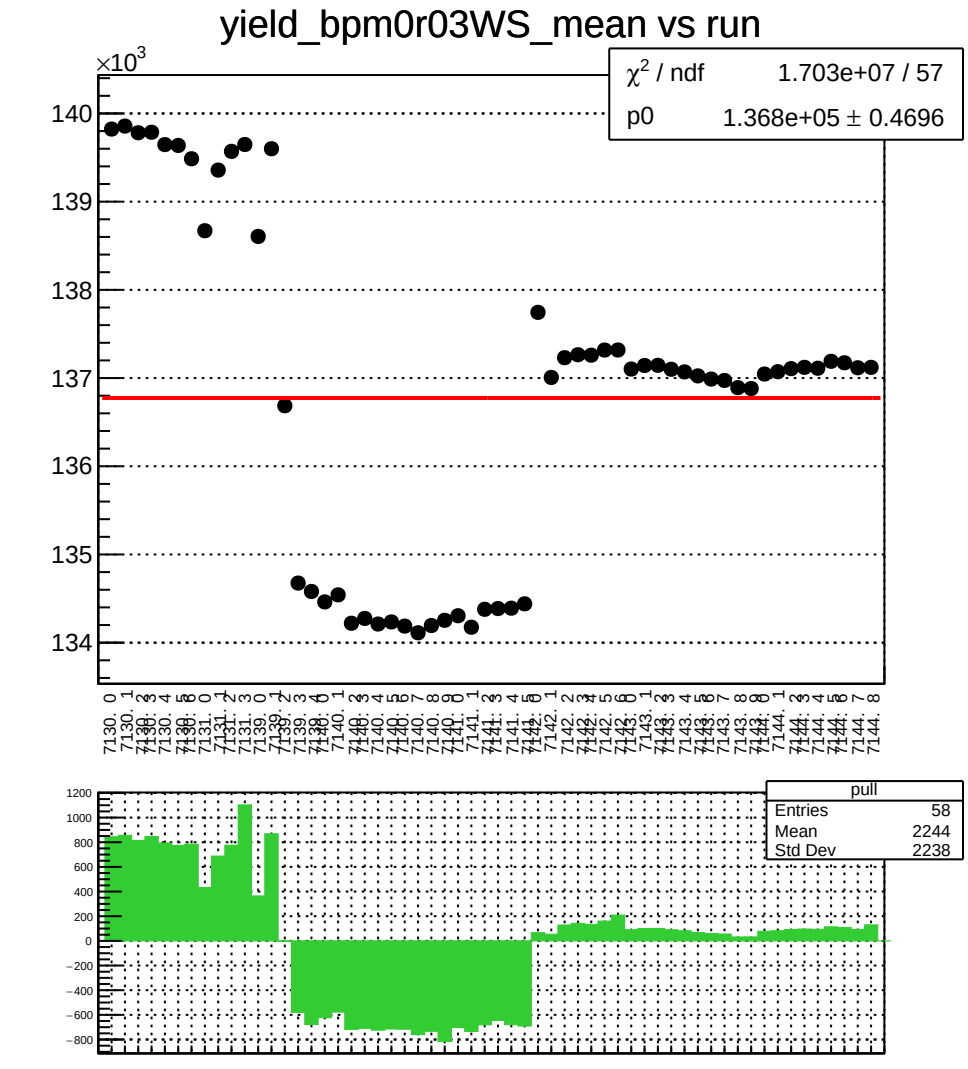

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

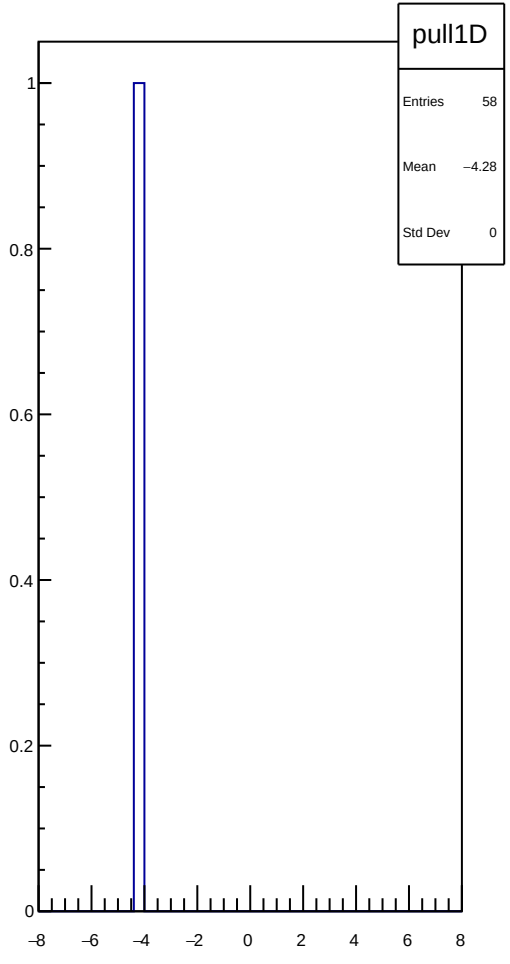

yield_bpm0l09WS_rms vs run
χ² / ndf 1.036e+04 / 57
p0 251.3 ± 0.2399
550
500
450
400
350
300
250

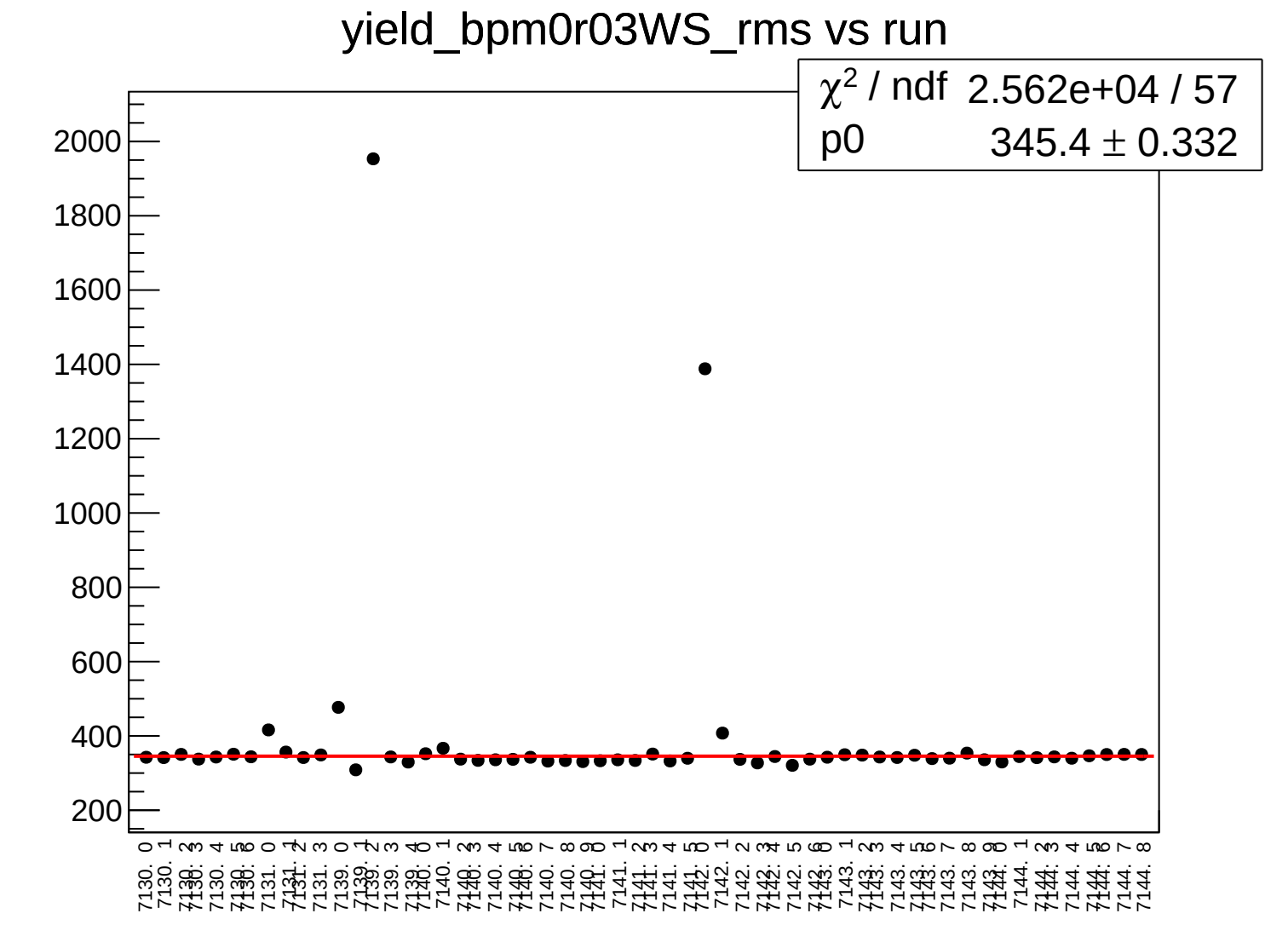

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.967e+06 / 57
p0 1.403e+05 ± 0.3362
141
140.5
140
139.5
139
138.5
138
pull
Entries 58
Mean 2174
Std Dev 2150
200
0
−200
−400
−600

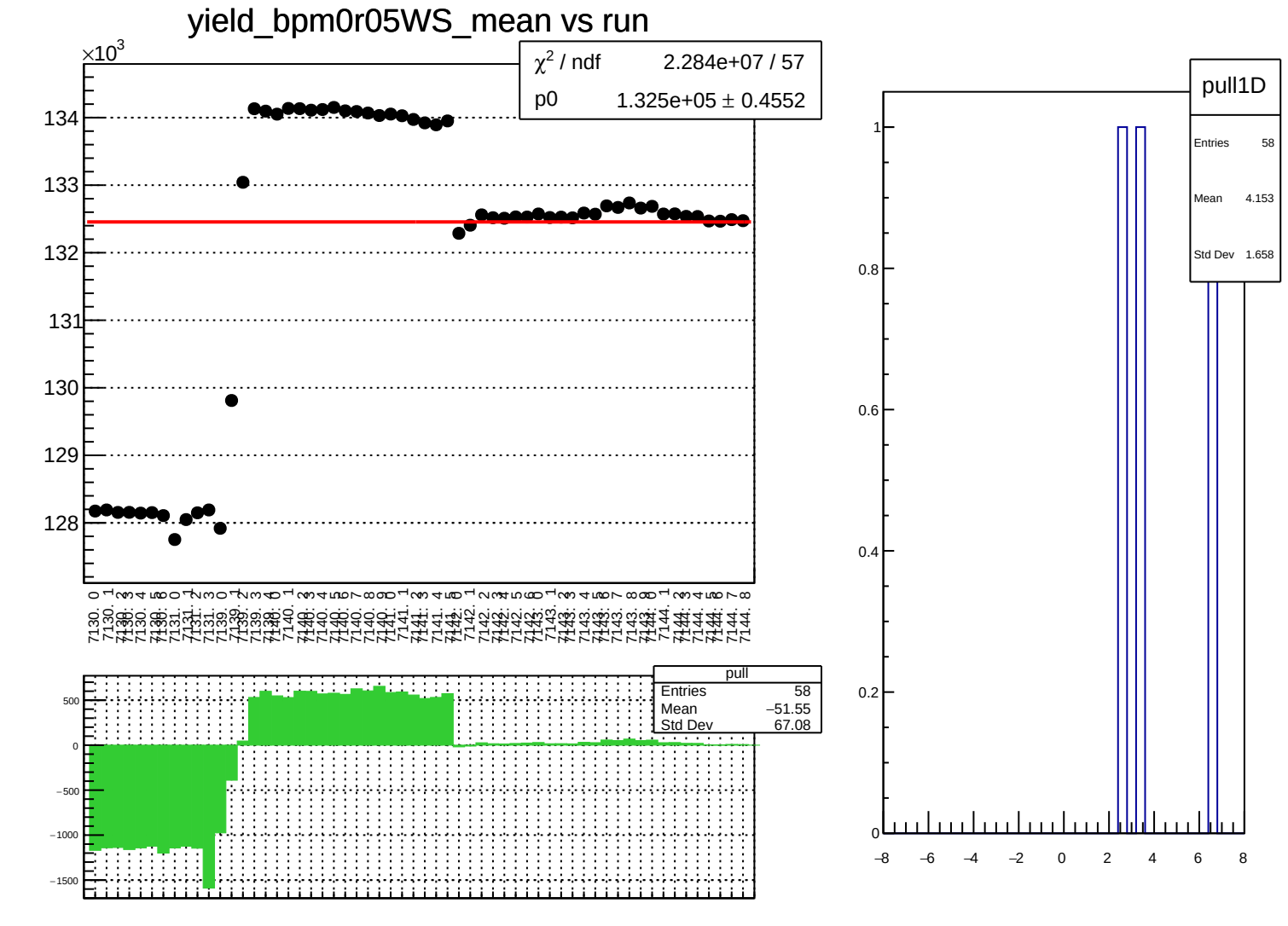

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

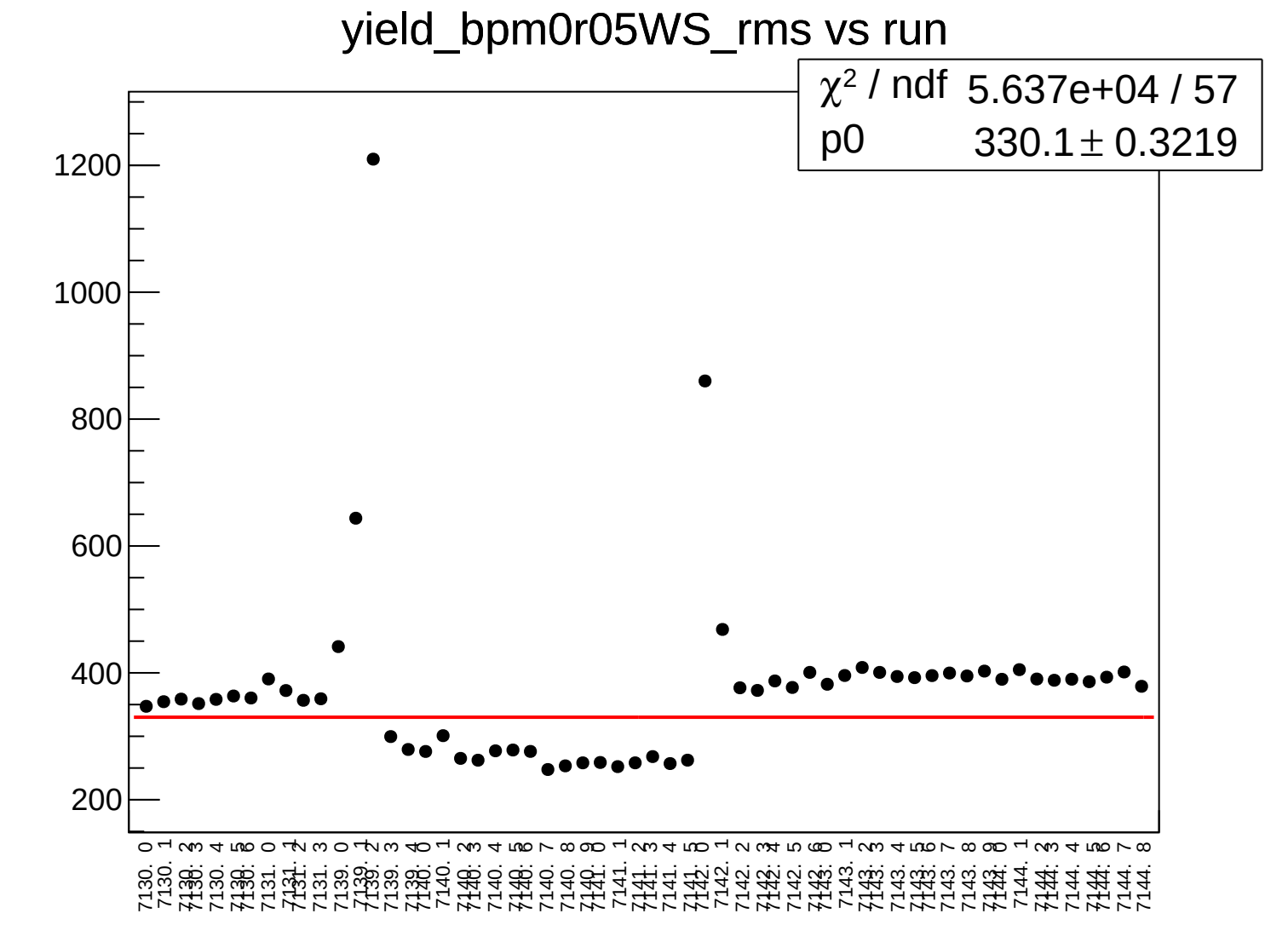

yield_bpm0l10WS_rms vs run
χ² / ndf 9828 / 57
p0 249.1 ± 0.2377
500
450
400
350
300
250

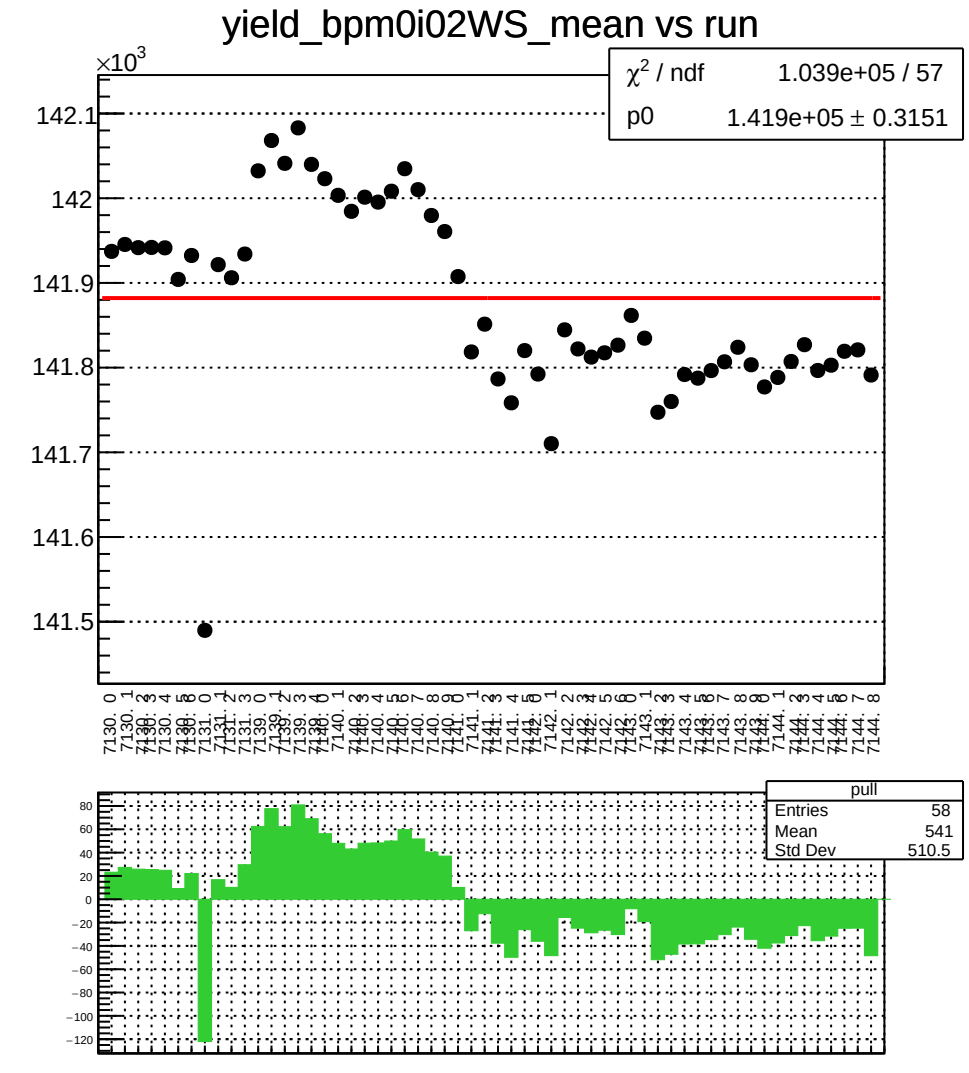

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.703e+07 / 57
p0 1.368e+05 ± 0.4696
140
139
138
137
136
135
134
pull
Entries 58
Mean 2244
Std Dev 2238
1200
1000
800
600
400
200
0
−200
−400
−600
−800

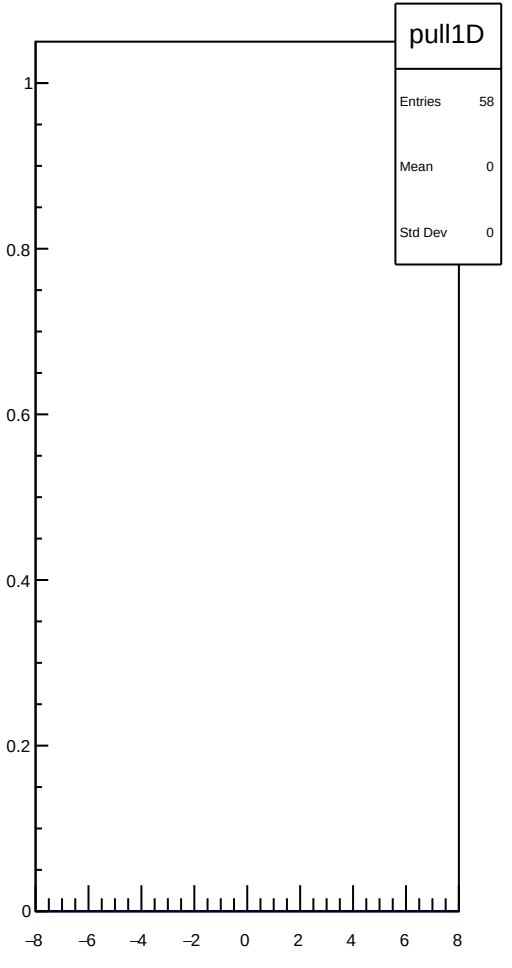

pull1D
Entries 58
Mean −4.28
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

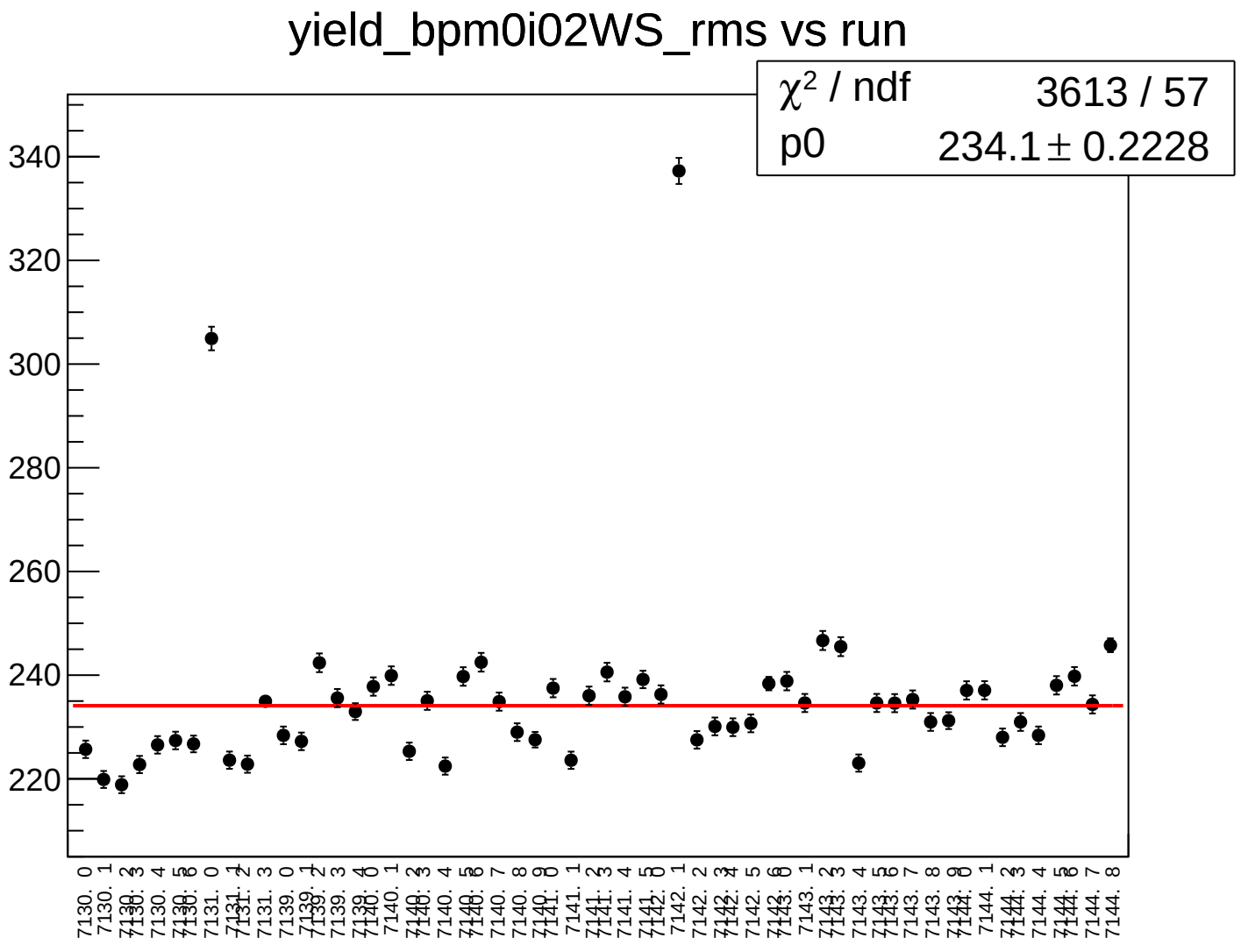

yield_bpm0r03WS_rms vs run
χ² / ndf 2.562e+04 / 57
p0 345.4 ± 0.332
2000
1800
1600
1400
1200
1000
800
600
400
200

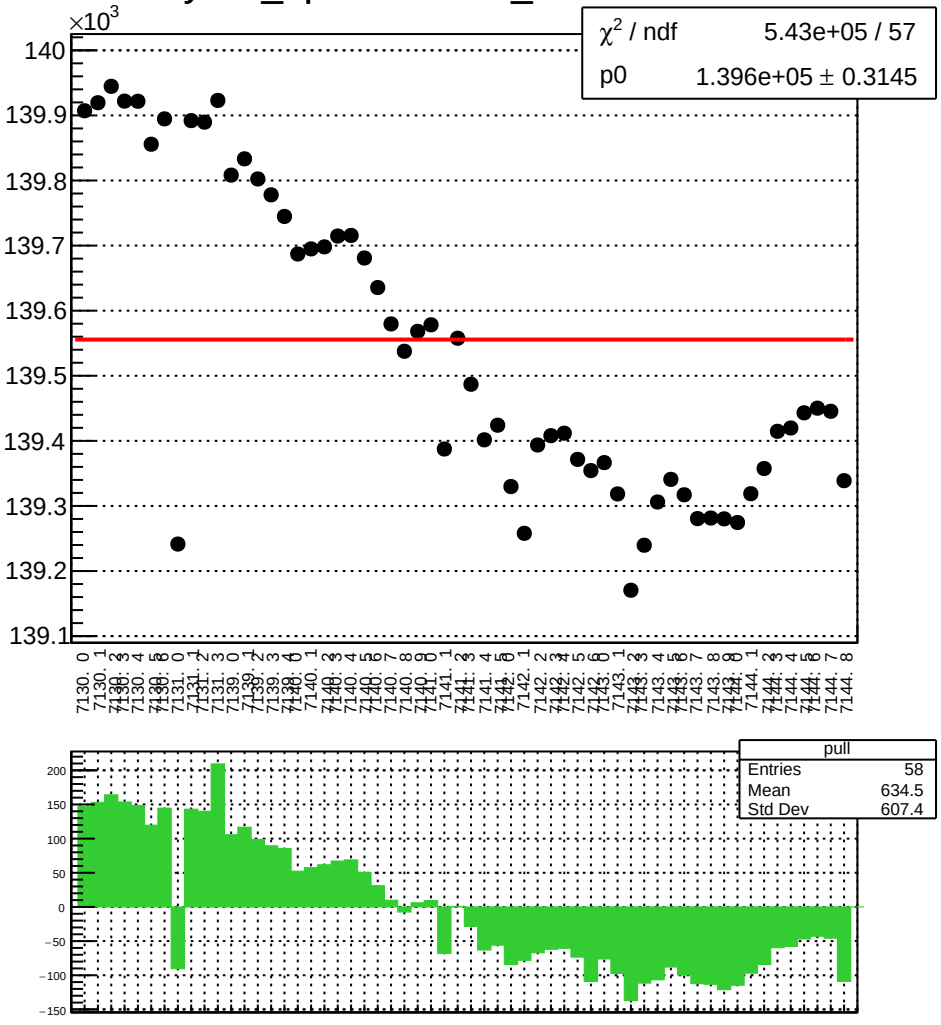

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.284e+07 / 57
p0 1.325e+05 ± 0.4552
134
133
132
131
130
129
128
pull
Entries 58
Mean −51.55
Std Dev 67.08
500
0
−500
−1000
−1500
pull1D
Entries 58
Mean 4.153
Std Dev 1.658
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

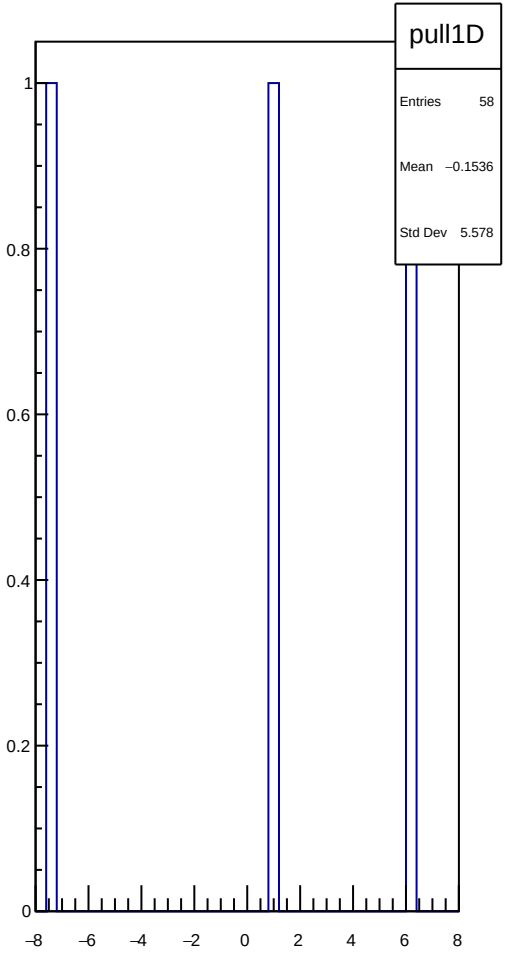

yield_bpm0r05WS_rms vs run
χ² / ndf 5.637e+04 / 57
p0 330.1 ± 0.3219
1200
1000
800
600
400
200

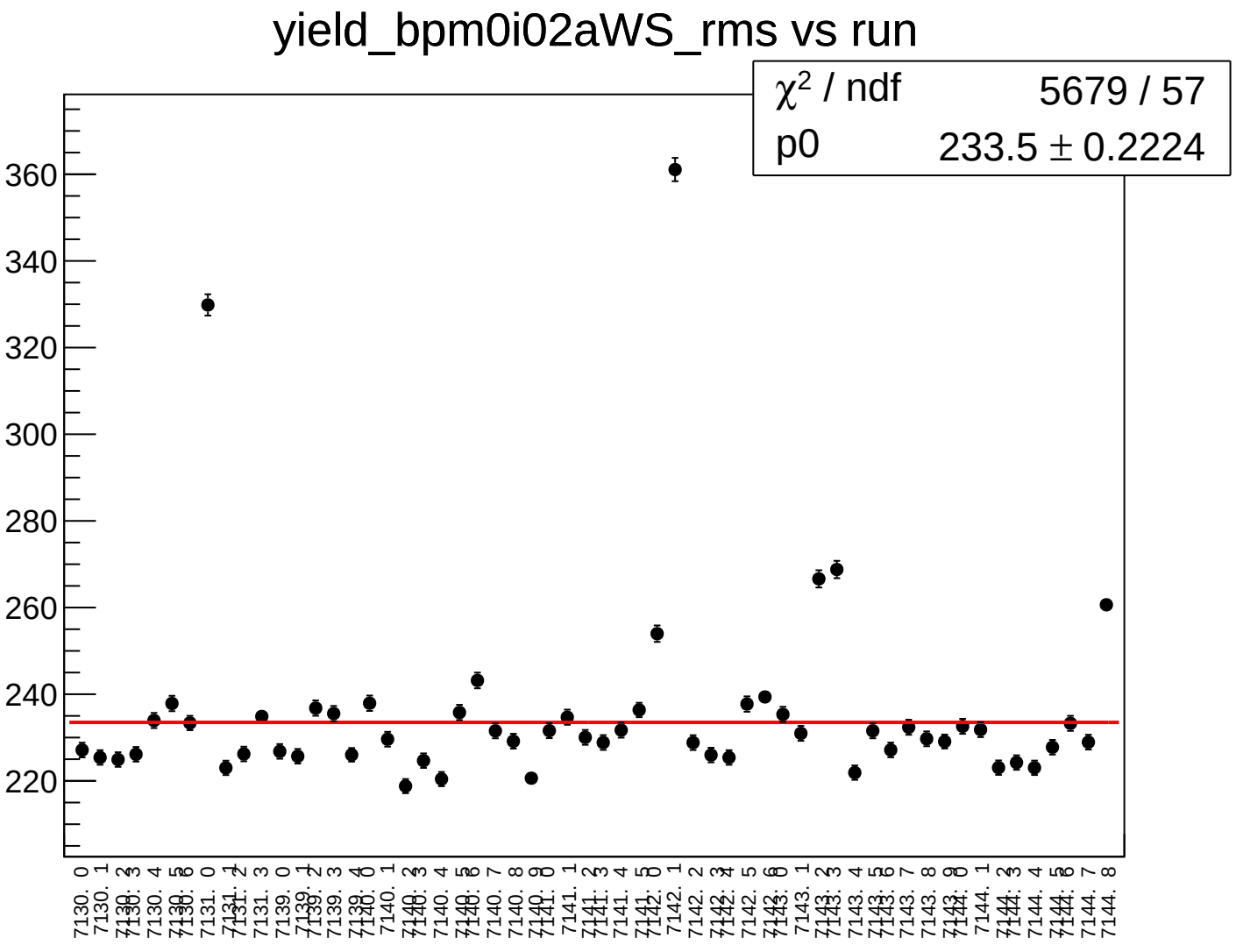

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.039e+05 / 57
p0 1.419e+05 ± 0.3151
142.1
142
141.9
141.8
141.7
141.6
141.5
pull
Entries 58
Mean 541
Std Dev 510.5
80
60
40
20
0
−20
−40
−60
−80
−100
−120

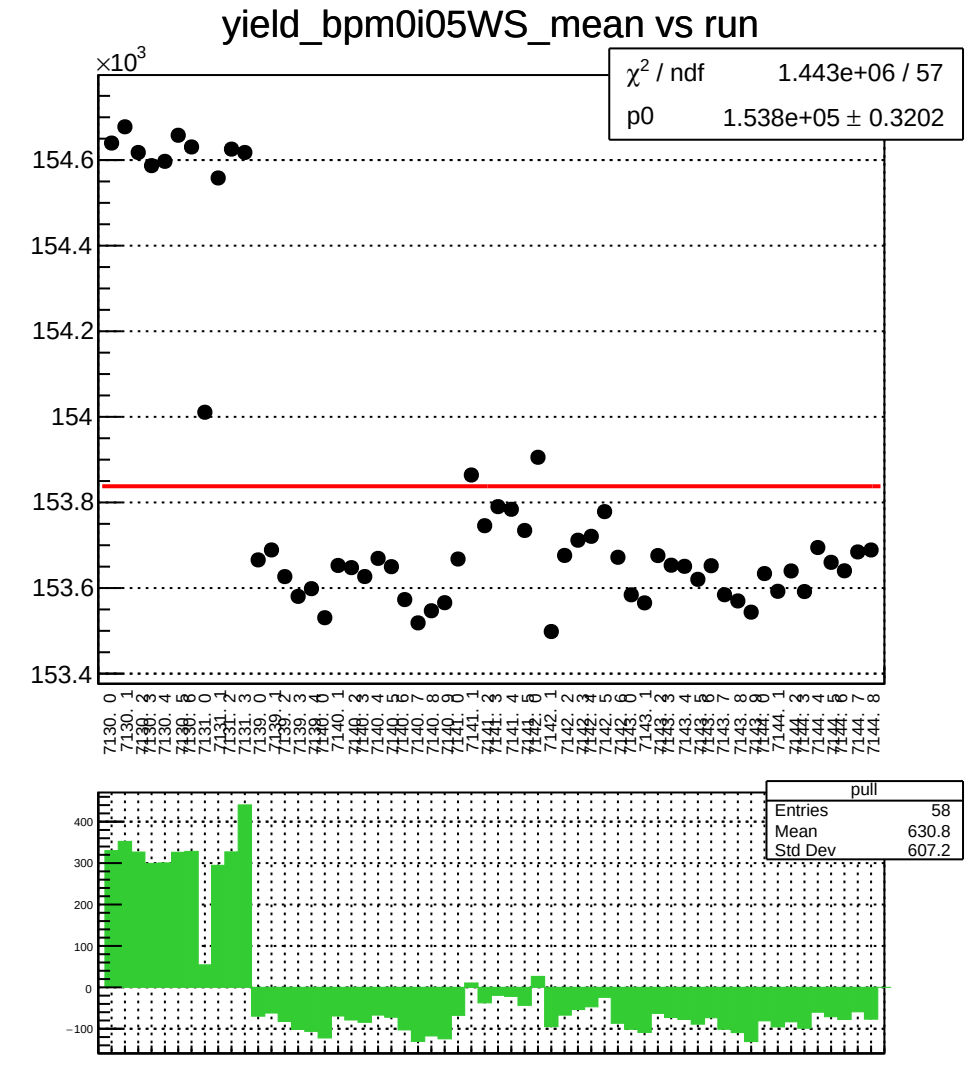

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

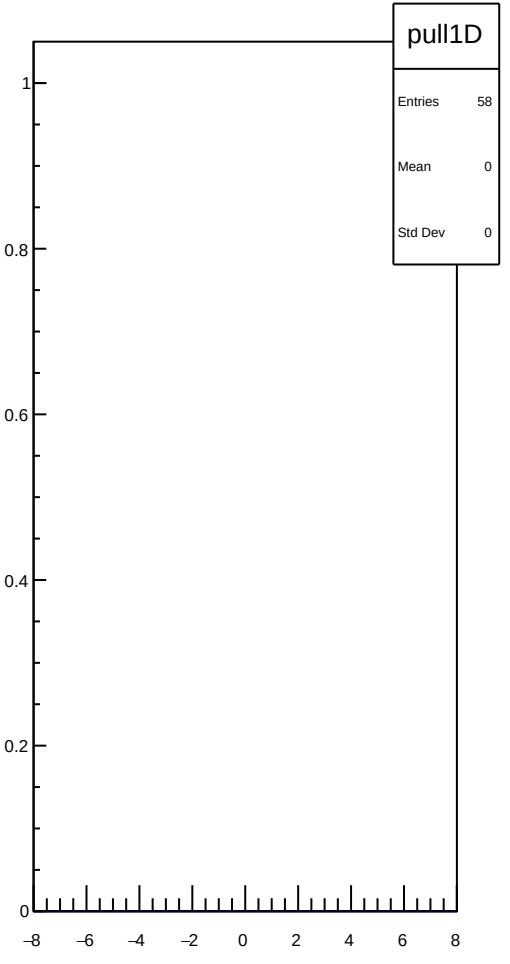

yield_bpm0i02WS_rms vs run
χ² / ndf 3613 / 57
p0 234.1 ± 0.2228
340
320
300
280
260
240
220

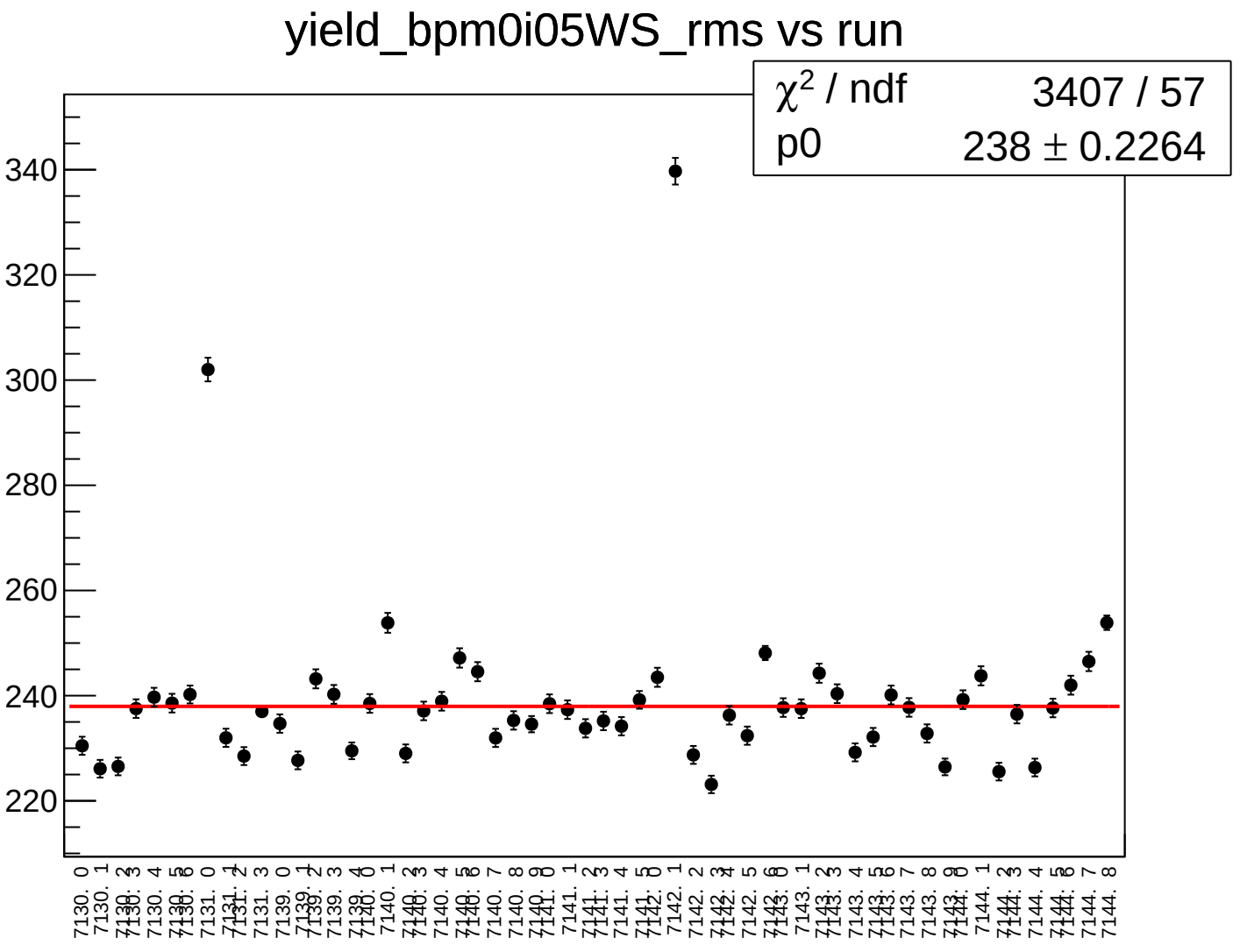

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.43e+05 / 57
p0 1.396e+05 ± 0.3145
140
139.9
139.8
139.7
139.6
139.5
139.4
139.3
139.2
139.1
pull
Entries 58
Mean 634.5
Std Dev 607.4
200
150
100
50
0
−50
−100
−150

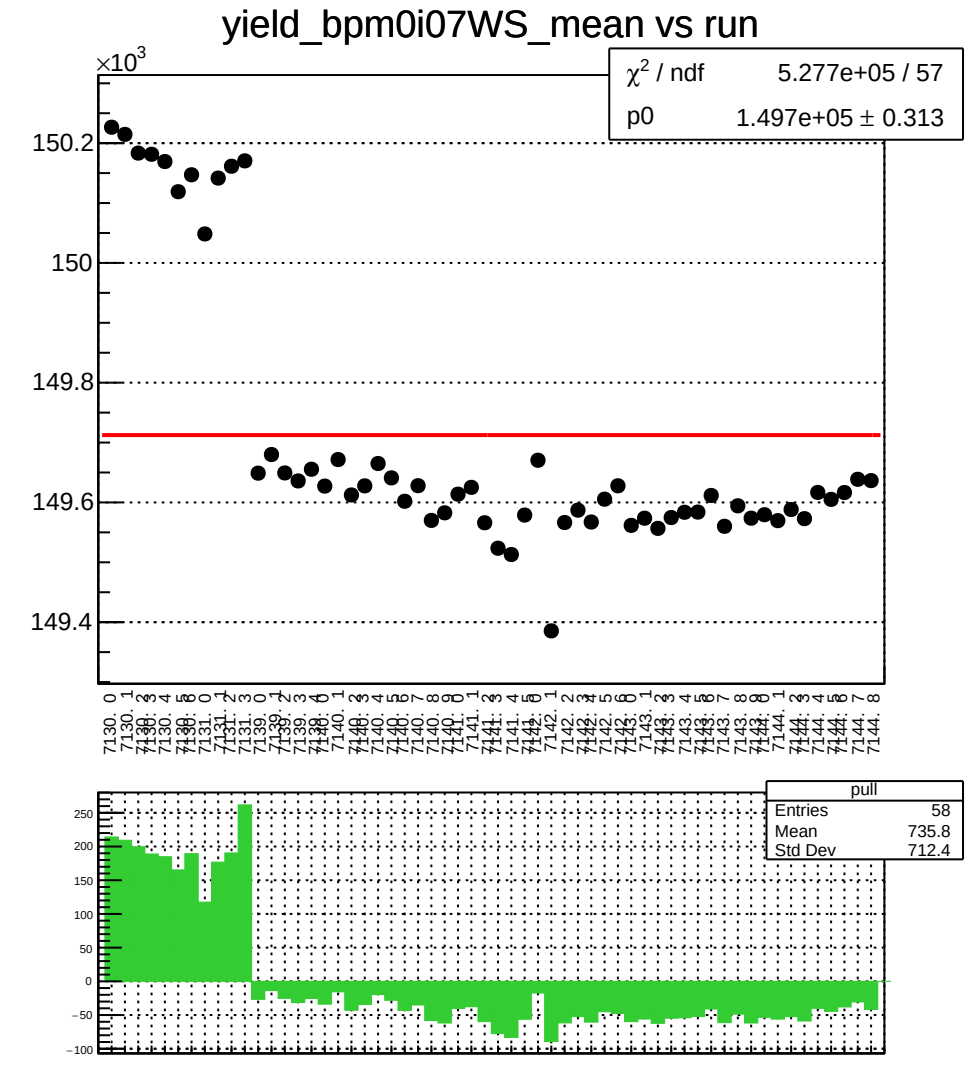

pull1D
Entries 58
Mean −0.1536
Std Dev 5.578
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

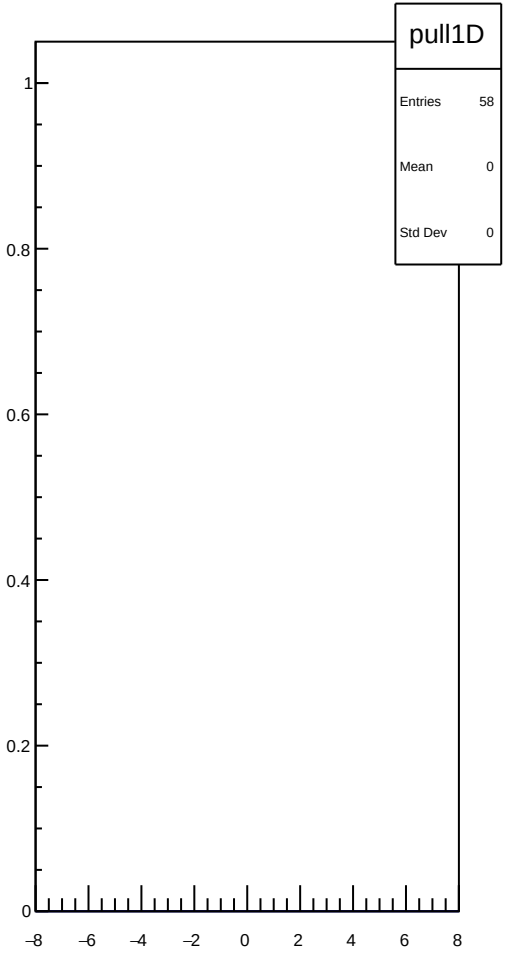

yield_bpm0i02aWS_rms vs run
χ² / ndf 5679 / 57
p0 233.5 ± 0.2224
360
340
320
300
280
260
240
220

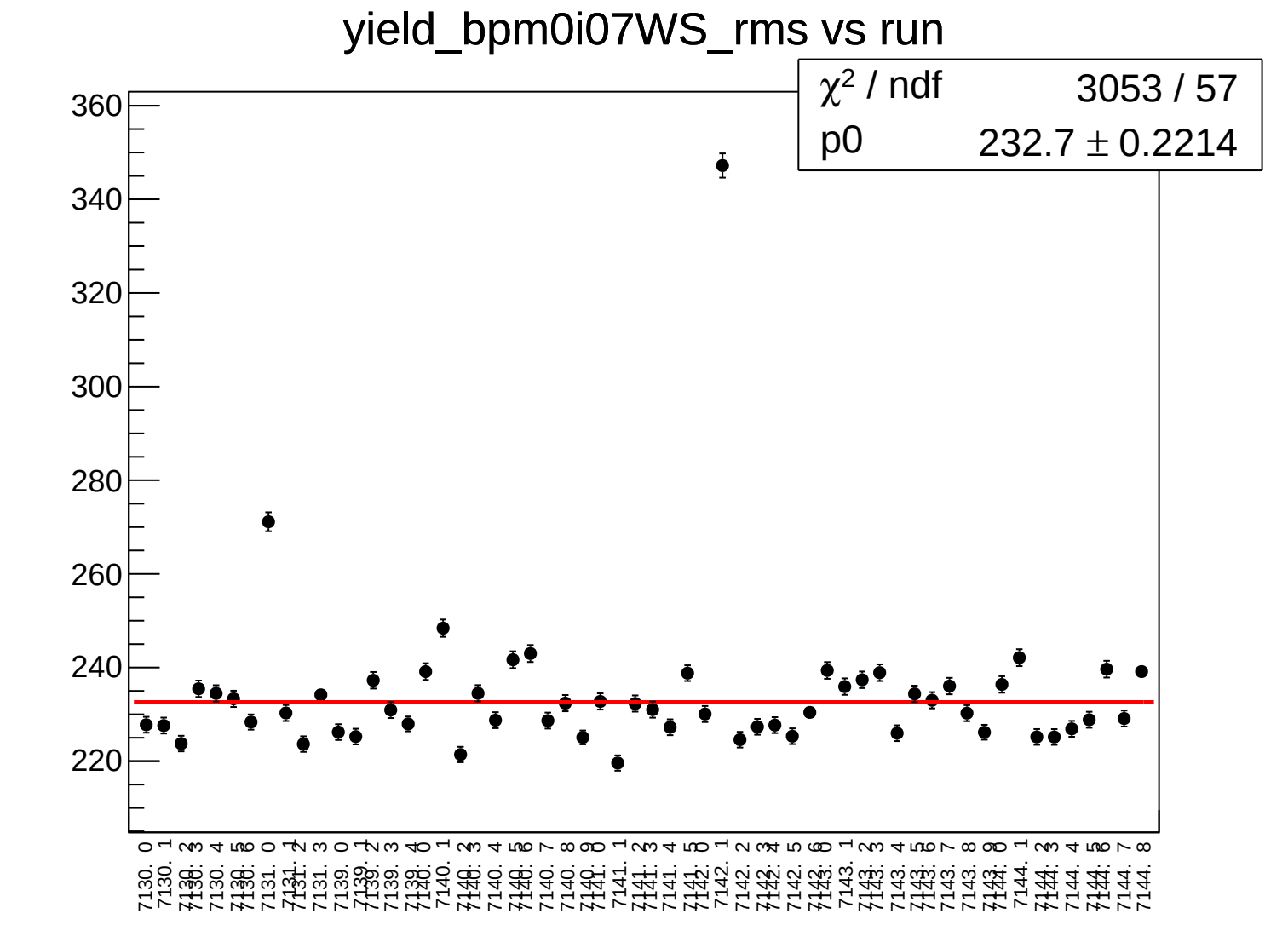

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.443e+06 / 57
p0 1.538e+05 ± 0.3202
154.6
154.4
154.2
154
153.8
153.6
153.4
pull
Entries 58
Mean 630.8
Std Dev 607.2
400
300
200
100
0
−100

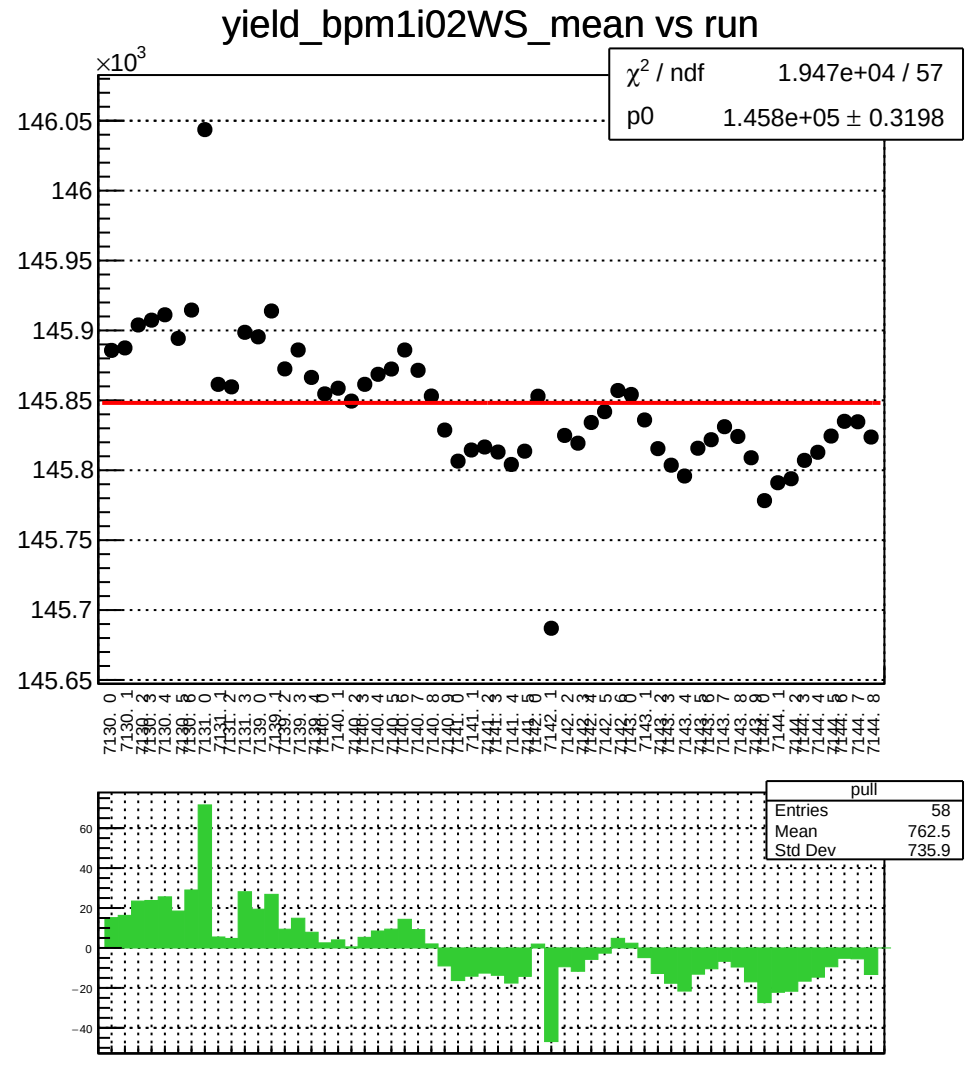

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

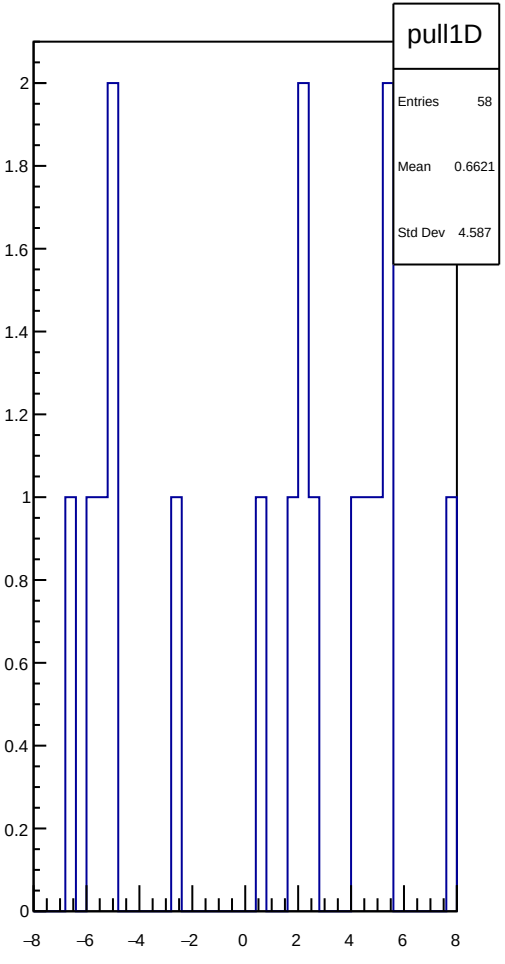

yield_bpm0i05WS_rms vs run
χ² / ndf 3407 / 57
p0 238 ± 0.2264
340
320
300
280
260
240
220

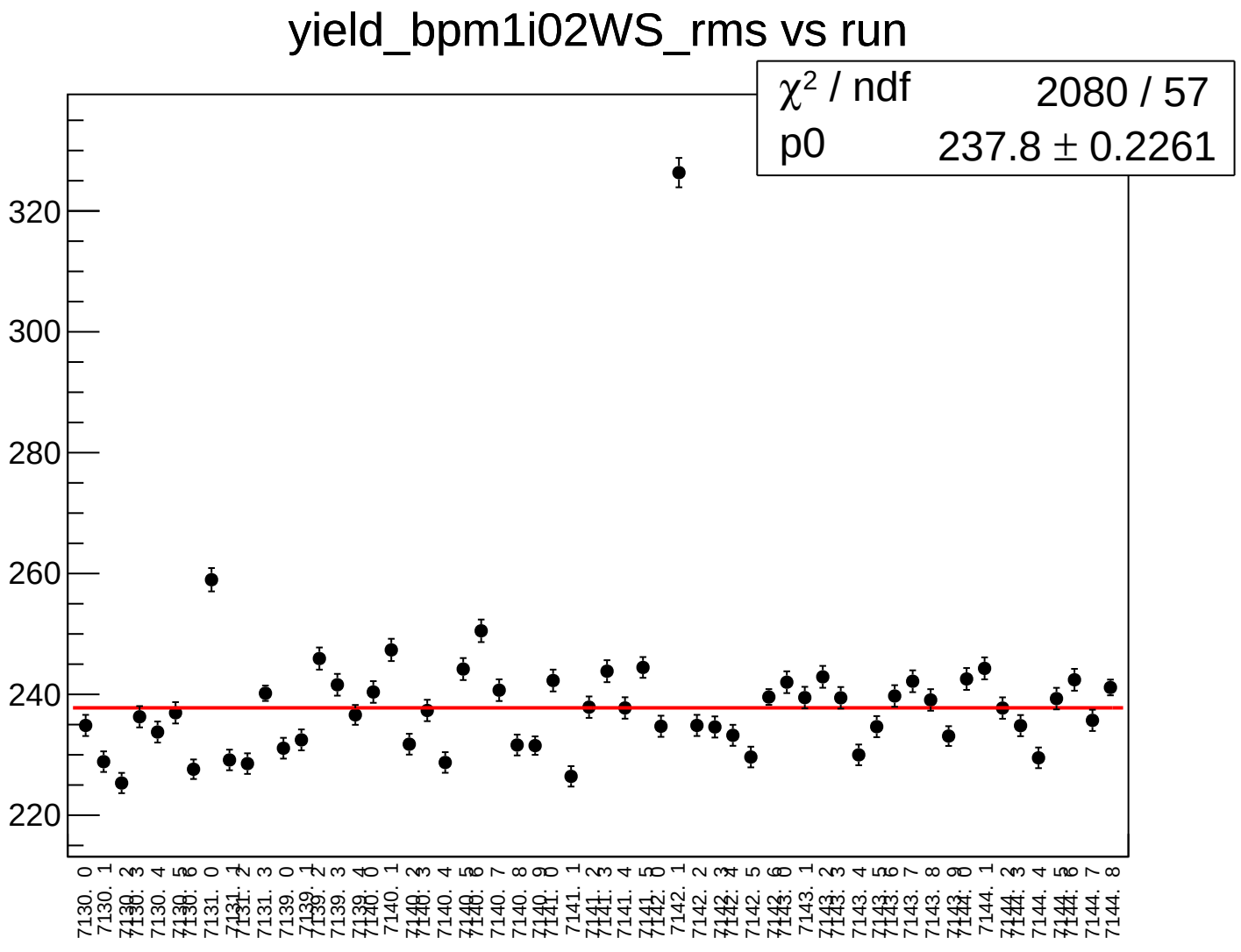

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 5.277e+05 / 57
p0 1.497e+05 ± 0.313
150.2
150
149.8
149.6
149.4
pull
Entries 58
Mean 735.8
Std Dev 712.4
250
200
150
100
50
0
−50
−100

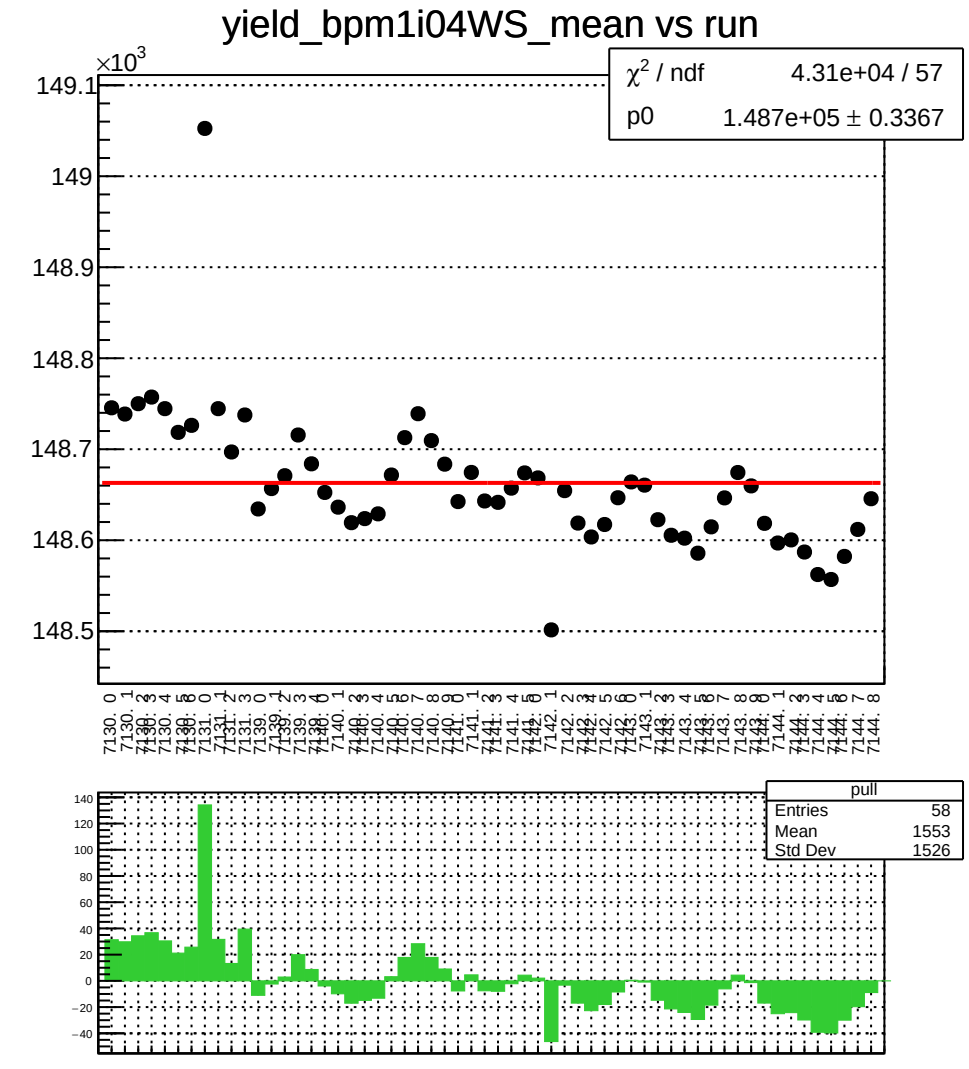

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

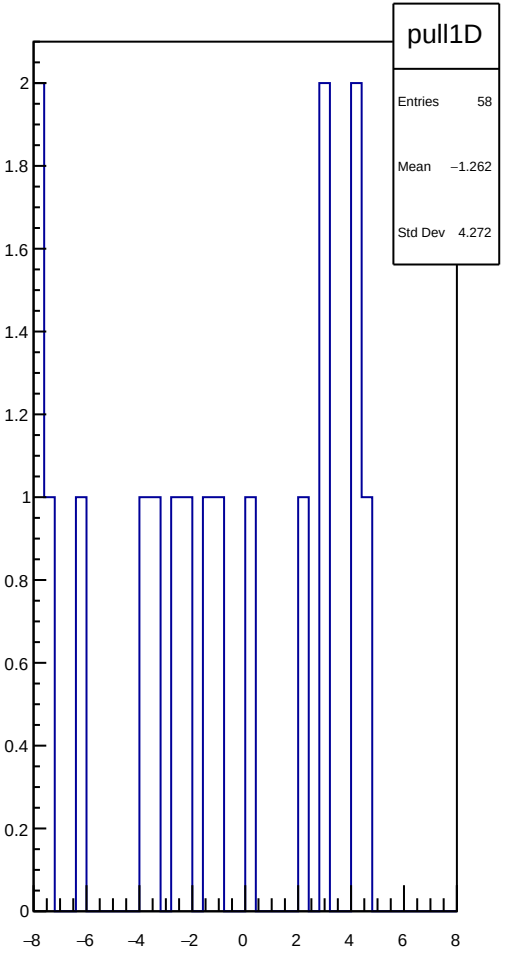

yield_bpm0i07WS_rms vs run
χ² / ndf 3053 / 57
p0 232.7 ± 0.2214
360
340
320
300
280
260
240
220

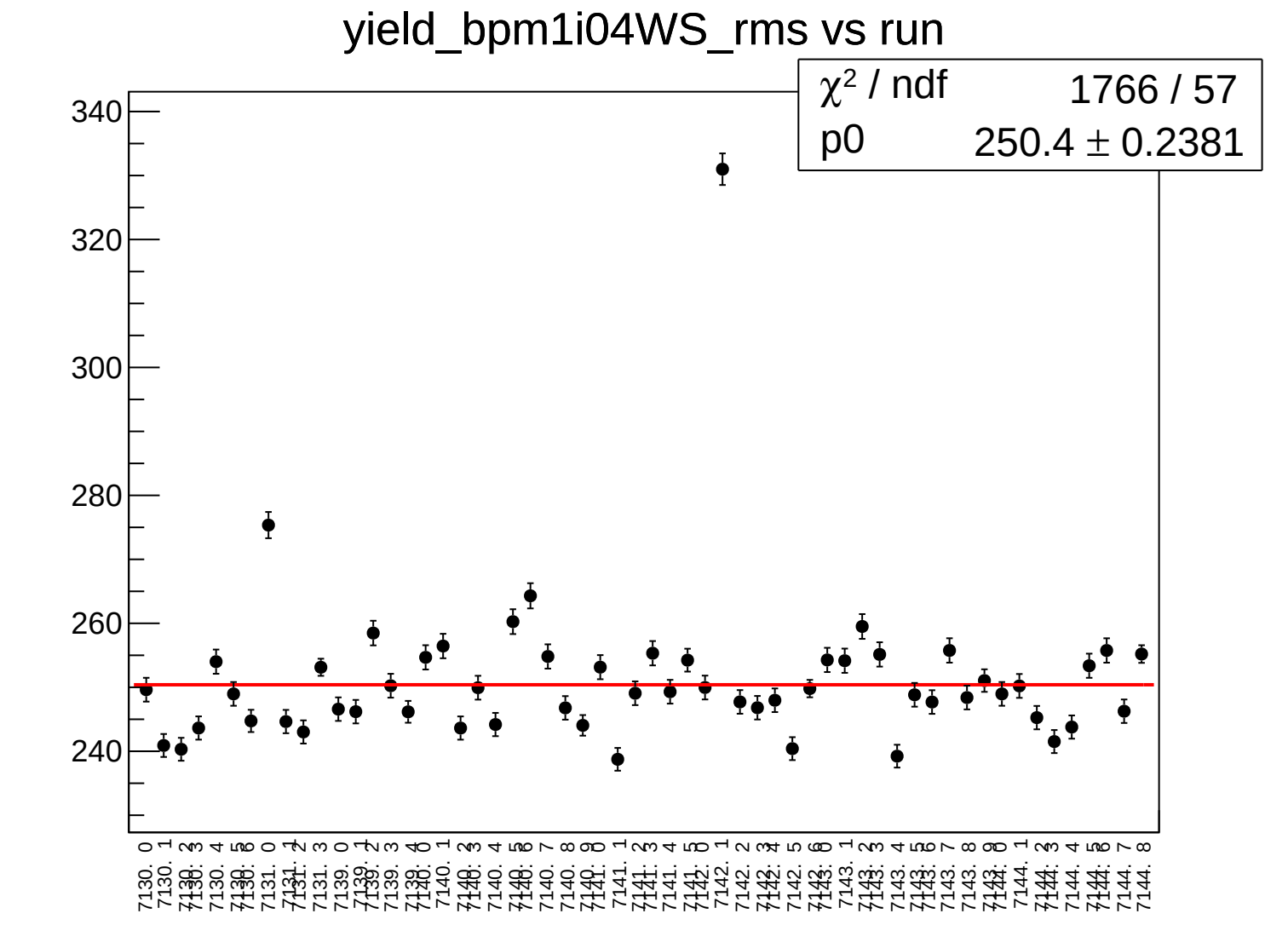

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 1.947e+04 / 57
p0 1.458e+05 ± 0.3198
146.05
146
145.95
145.9
145.85
145.8
145.75
145.7
145.65
pull
Entries 58
Mean 762.5
Std Dev 735.9
60
40
20
0
−20
−40

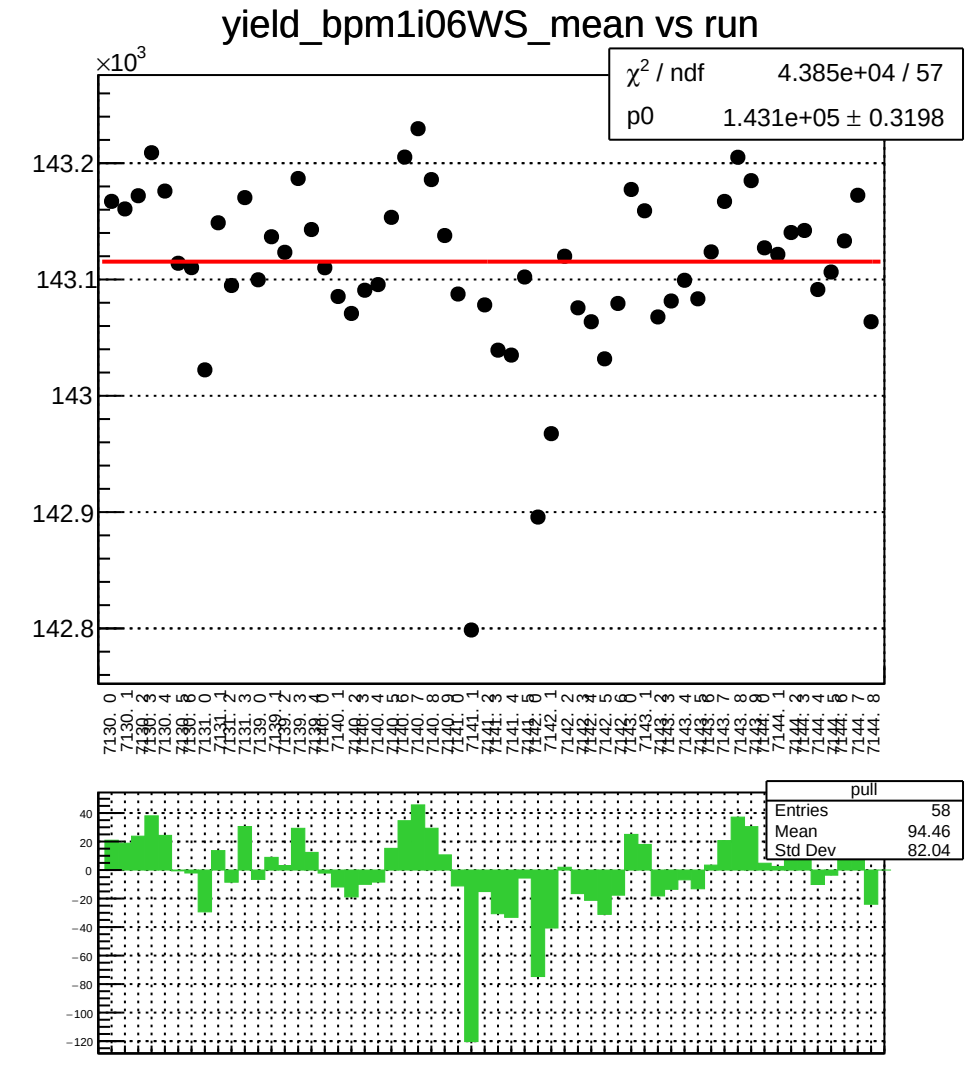

pull1D
Entries 58
Mean 0.6621
Std Dev 4.587
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

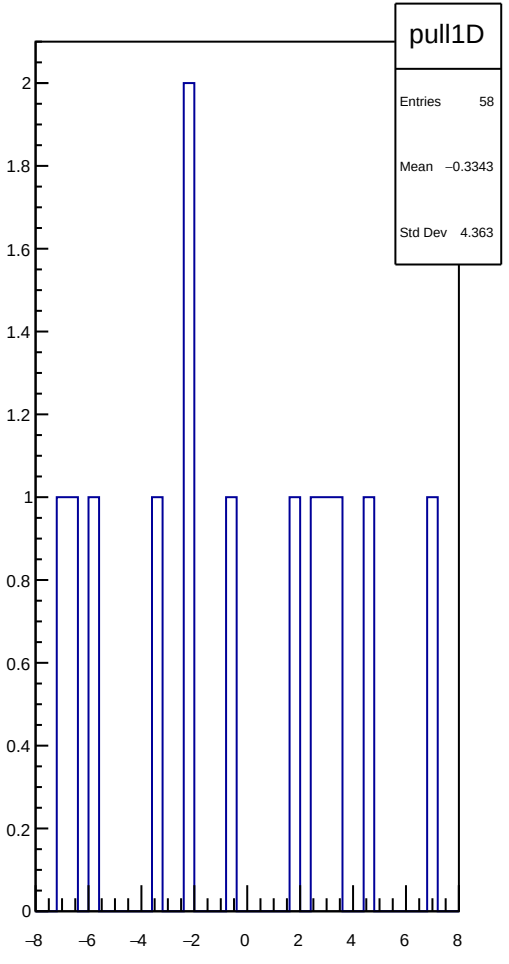

yield_bpm1i02WS_rms vs run
χ² / ndf 2080 / 57
p0 237.8 ± 0.2261
320
300
280
260
240
220

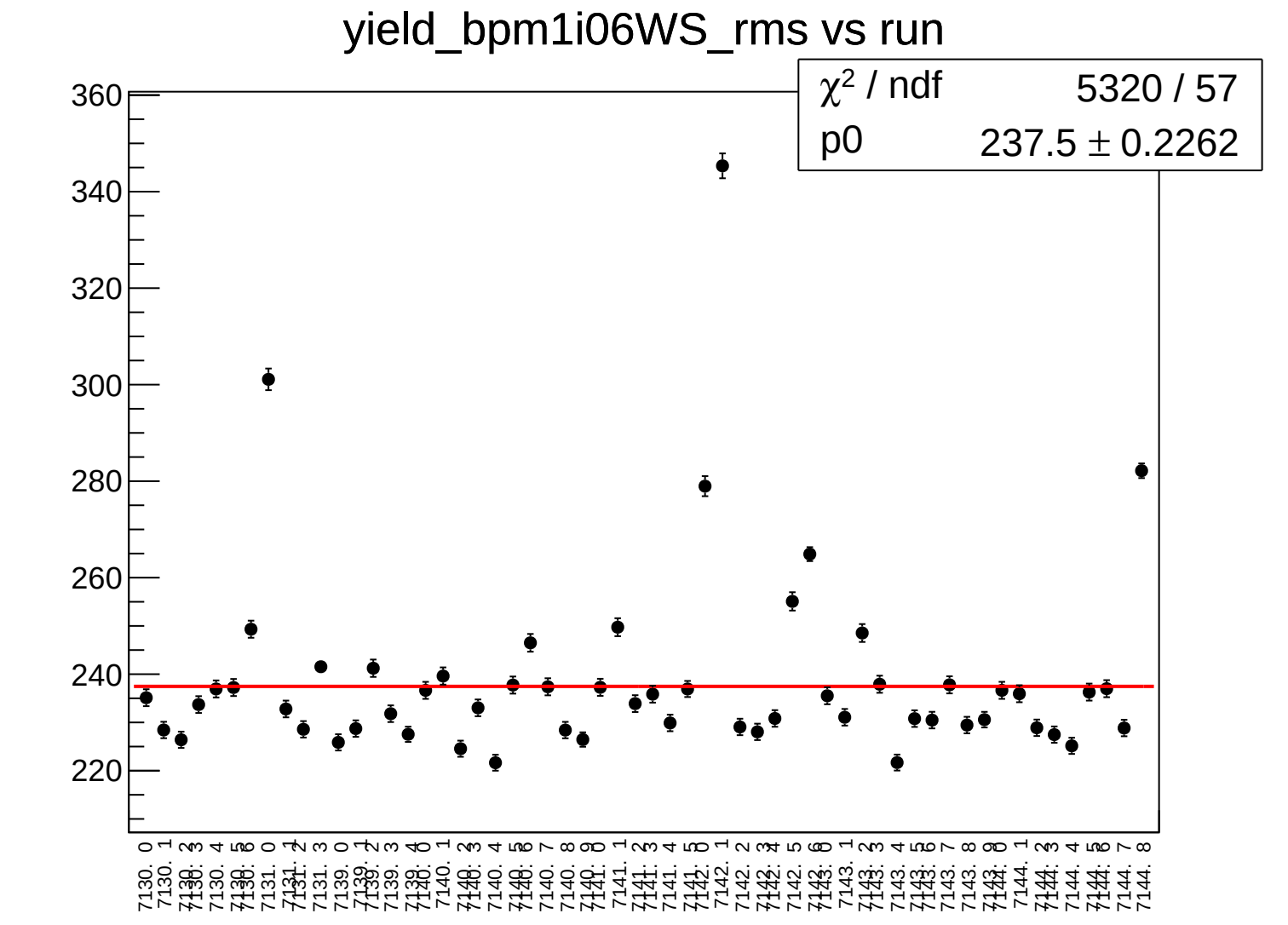

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 4.31e+04 / 57
p0 1.487e+05 ± 0.3367
149.1
149
148.9
148.8
148.7
148.6
148.5
pull
Entries 58
Mean 1553
Std Dev 1526
140
120
100
80
60
40
20
0
−20
−40

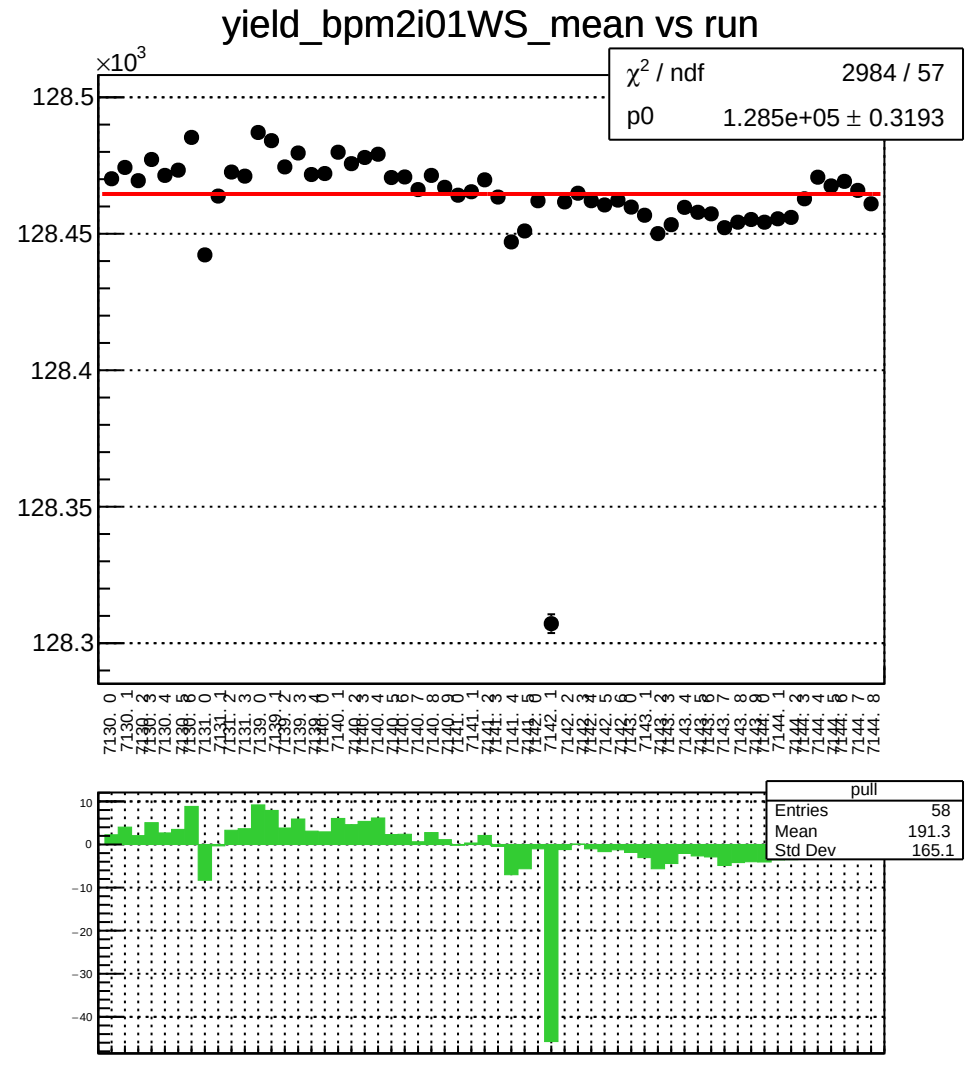

pull1D
Entries 58
Mean −1.262
Std Dev 4.272
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

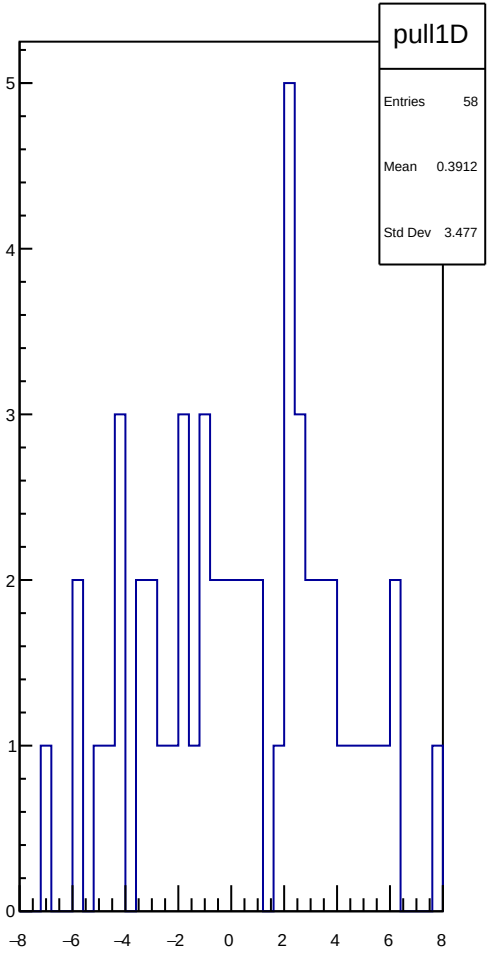

yield_bpm1i04WS_rms vs run
χ² / ndf 1766 / 57
p0 250.4 ± 0.2381
340
320
300
280
260
240

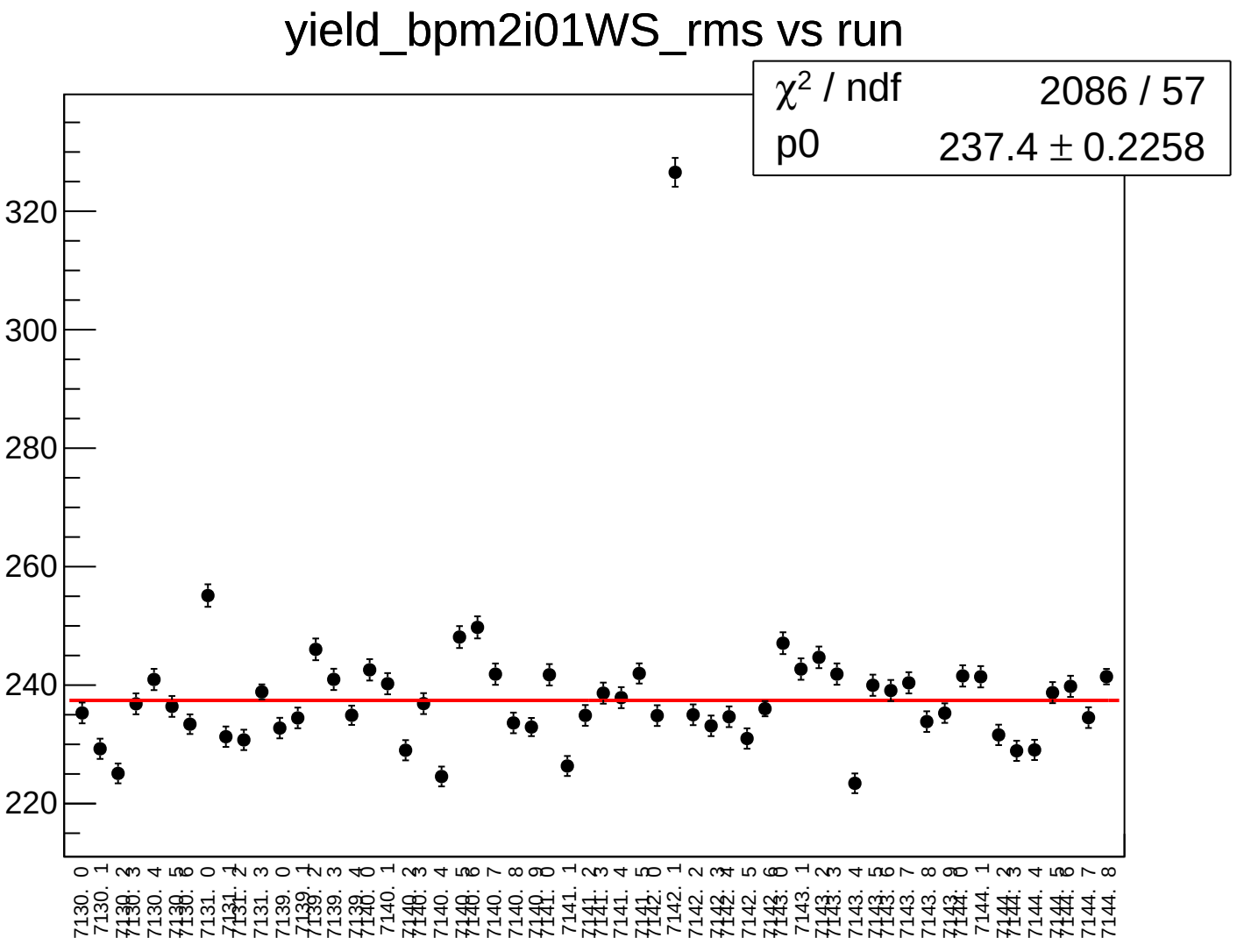

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 4.385e+04 / 57
p0 1.431e+05 ± 0.3198
143.2
143.1
143
142.9
142.8
pull
Entries 58
Mean 94.46
Std Dev 82.04
40
20
0
−20
−40
−60
−80
−100
−120

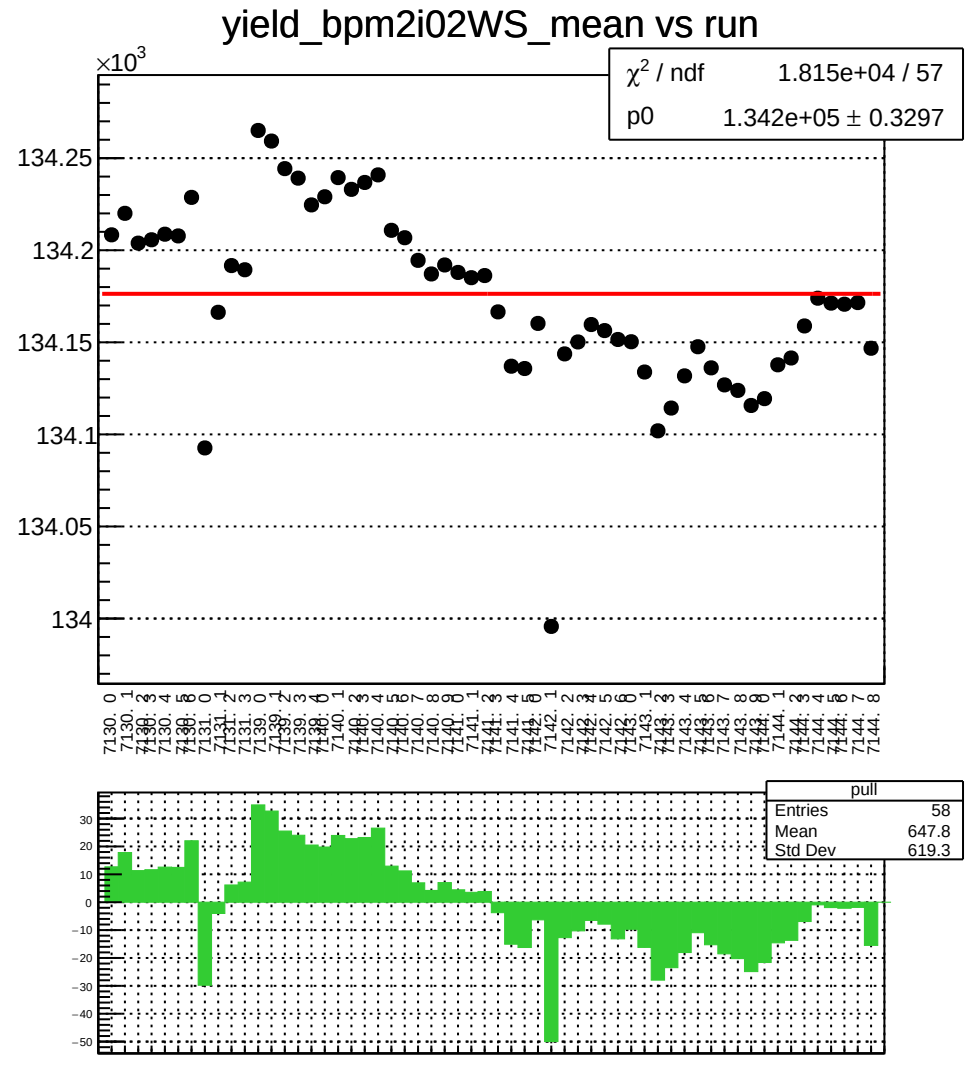

pull1D
Entries 58
Mean −0.3343
Std Dev 4.363
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

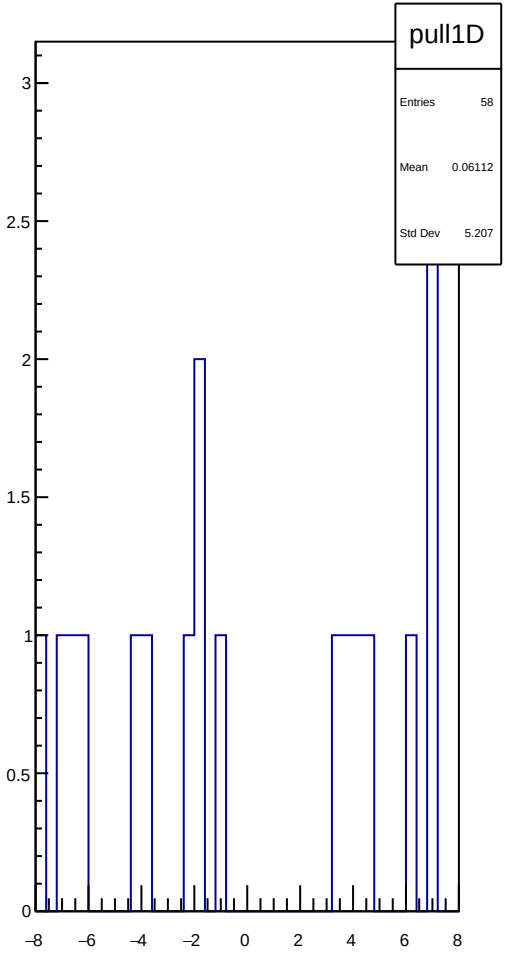

yield_bpm1i06WS_rms vs run
χ² / ndf 5320 / 57
p0 237.5 ± 0.2262
360
340
320
300
280
260
240
220

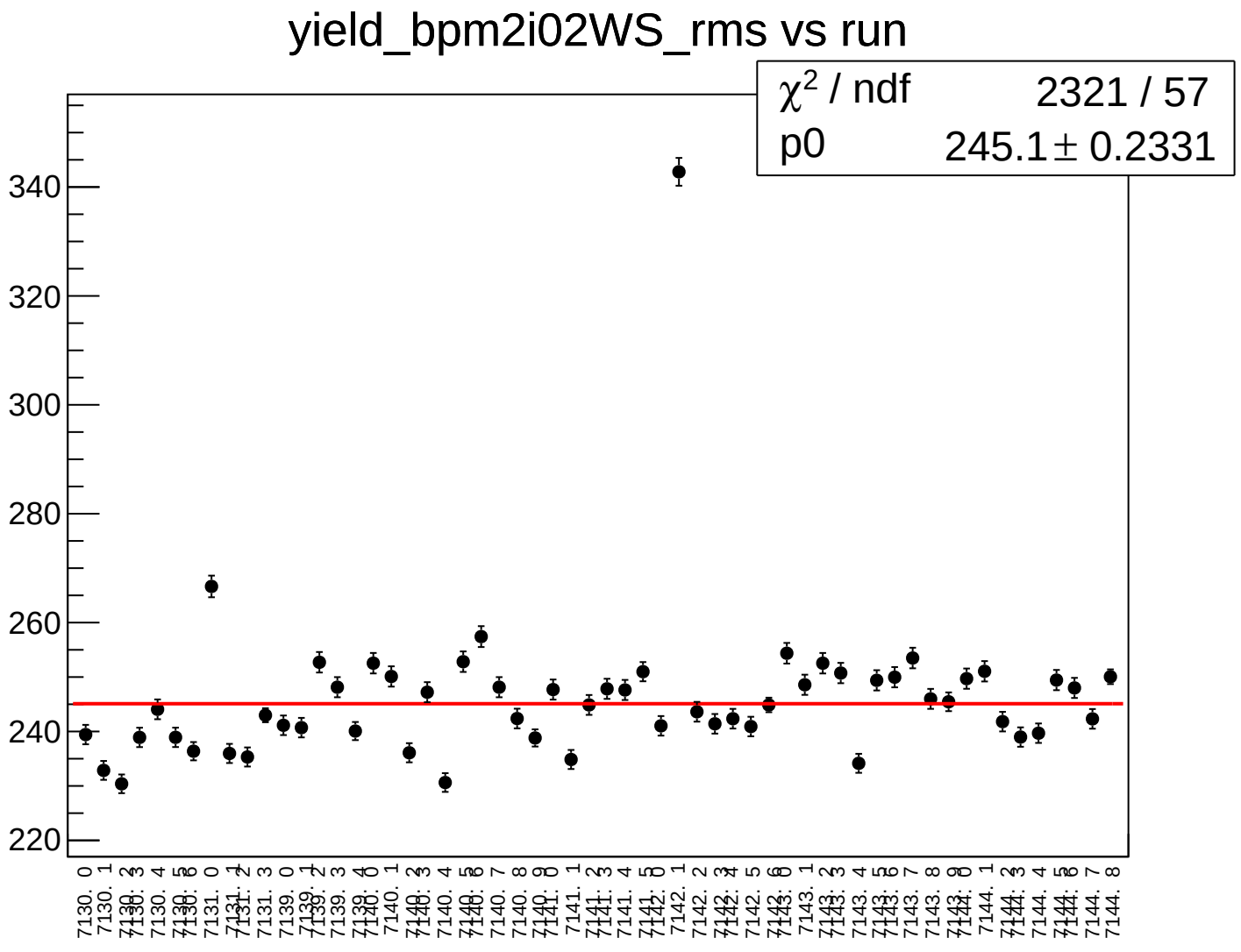

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2984 / 57
p0 1.285e+05 ± 0.3193
128.5
128.45
128.4
128.35
128.3
pull
Entries 58
Mean 191.3
Std Dev 165.1
10
0
−10
−20
−30
−40

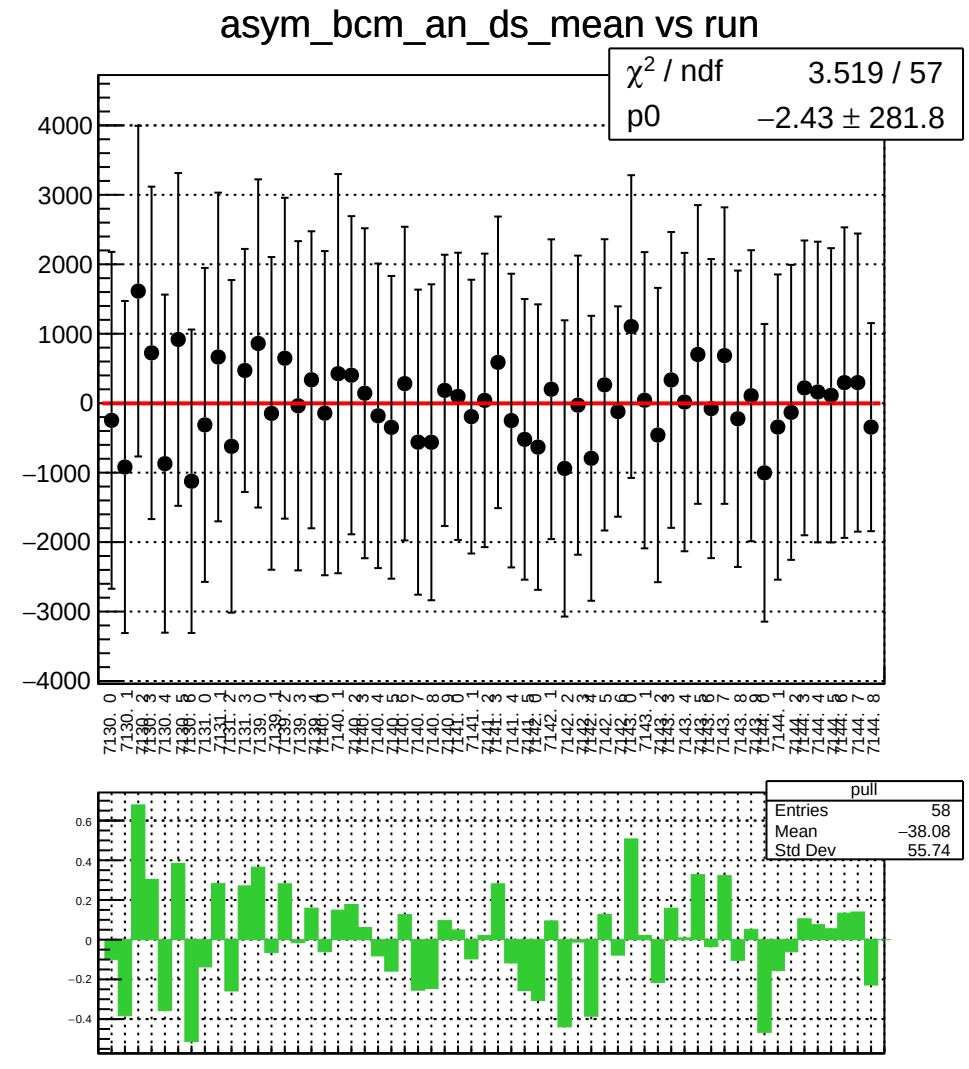

pull1D
Entries 58
Mean 0.3912
Std Dev 3.477
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

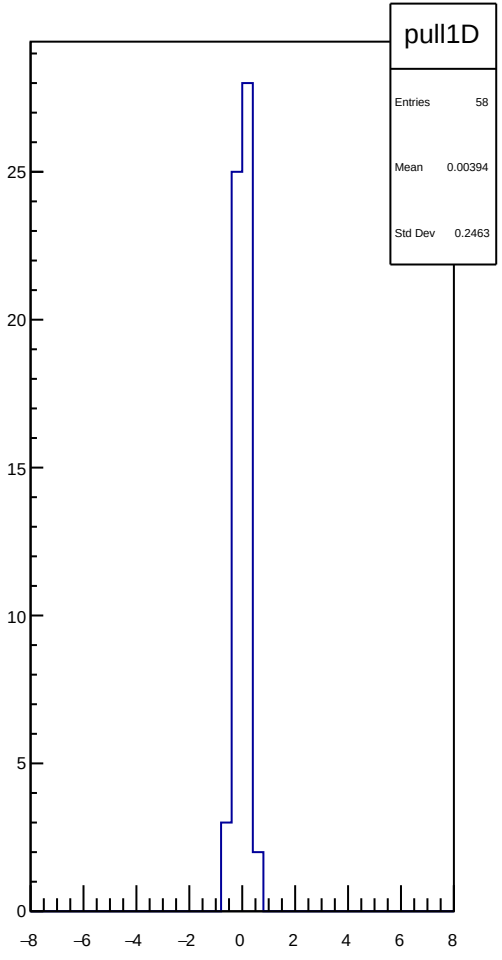

yield_bpm2i01WS_rms vs run
χ² / ndf 2086 / 57
p0 237.4 ± 0.2258
320
300
280
260
240
220

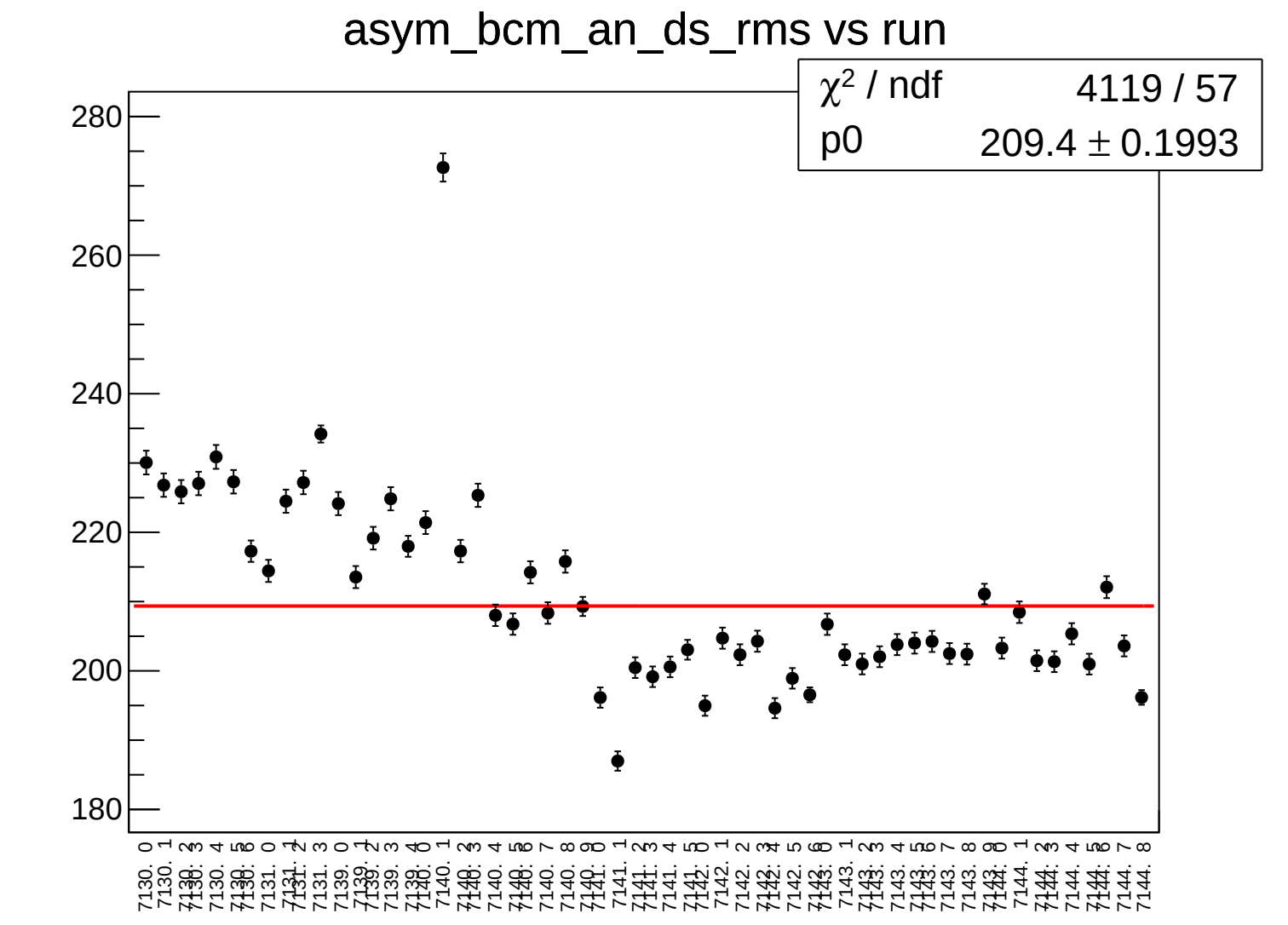

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.815e+04 / 57
p0 1.342e+05 ± 0.3297
134.25
134.2
134.15
134.1
134.05
134
pull
Entries 58
Mean 647.8
Std Dev 619.3
30
20
10
0
−10
−20
−30
−40
−50

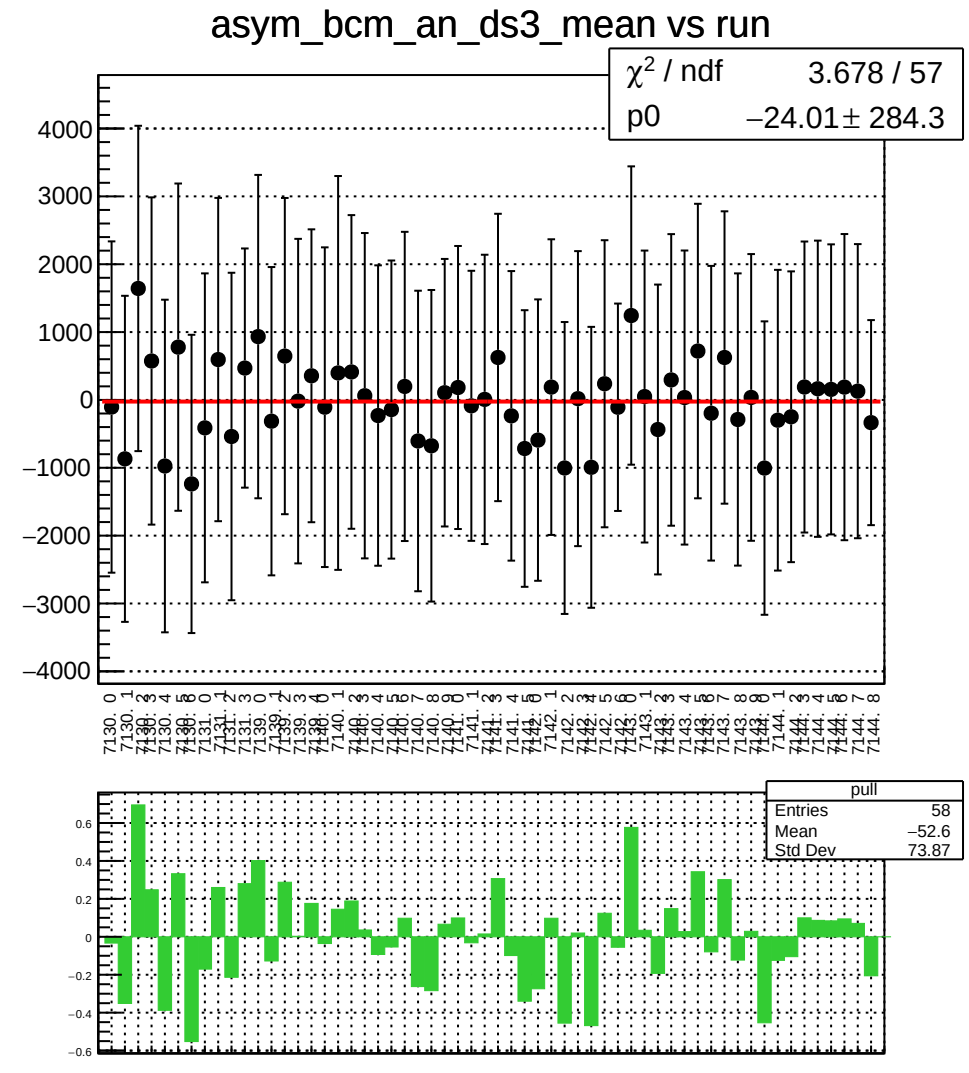

pull1D
Entries 58
Mean 0.06112
Std Dev 5.207
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

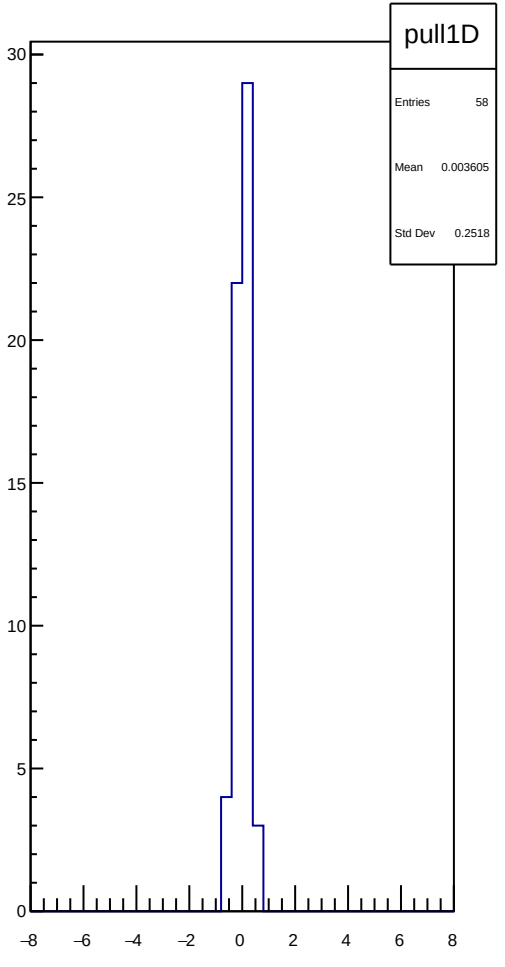

yield_bpm2i02WS_rms vs run
χ² / ndf 2321 / 57
p0 245.1 ± 0.2331
340
320
300
280
260
240
220

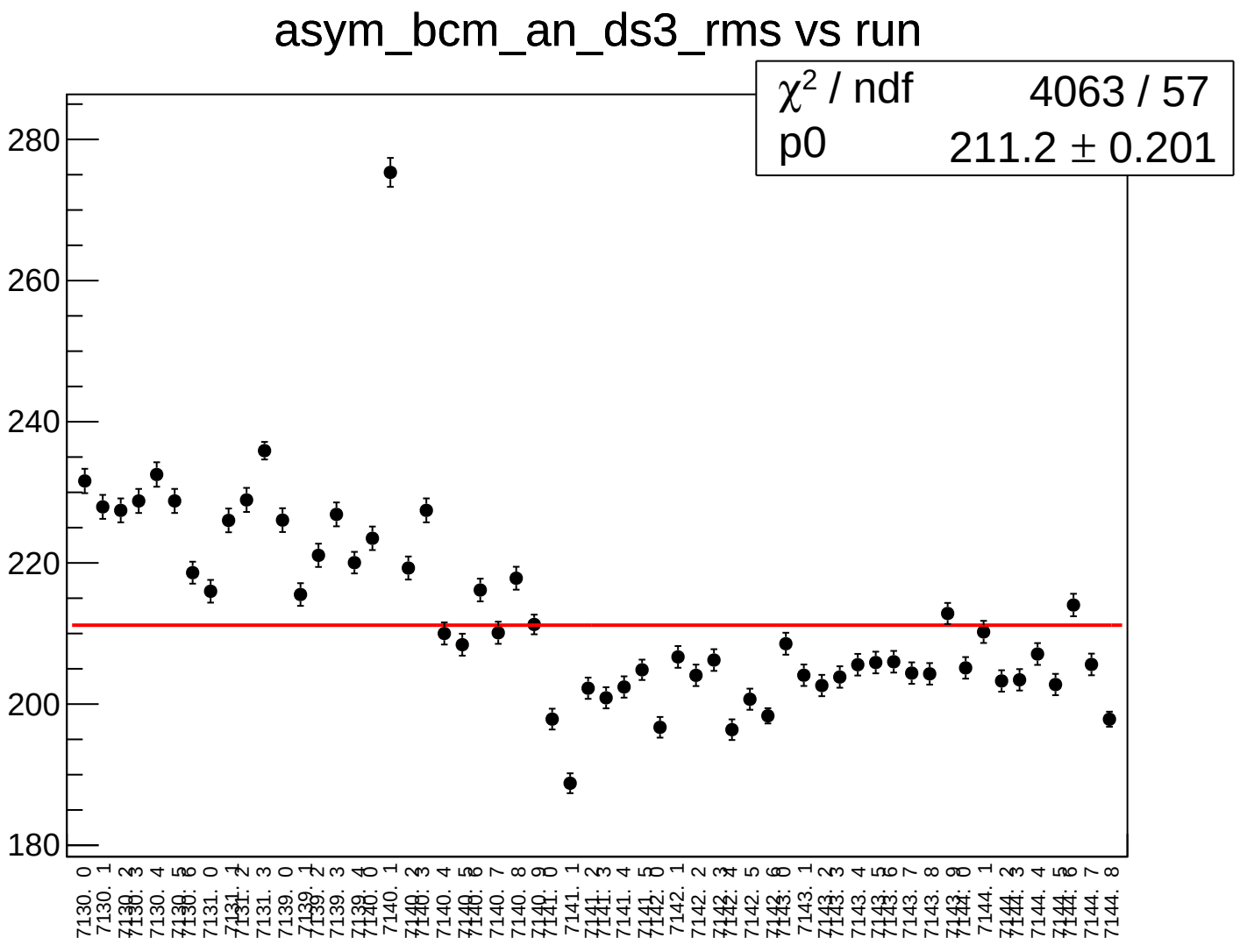

asym_bcm_an_ds_mean vs run
χ² / ndf 3.519 / 57
p0 −2.43 ± 281.8
pull
Entries 58
Mean −38.08
Std Dev 55.74

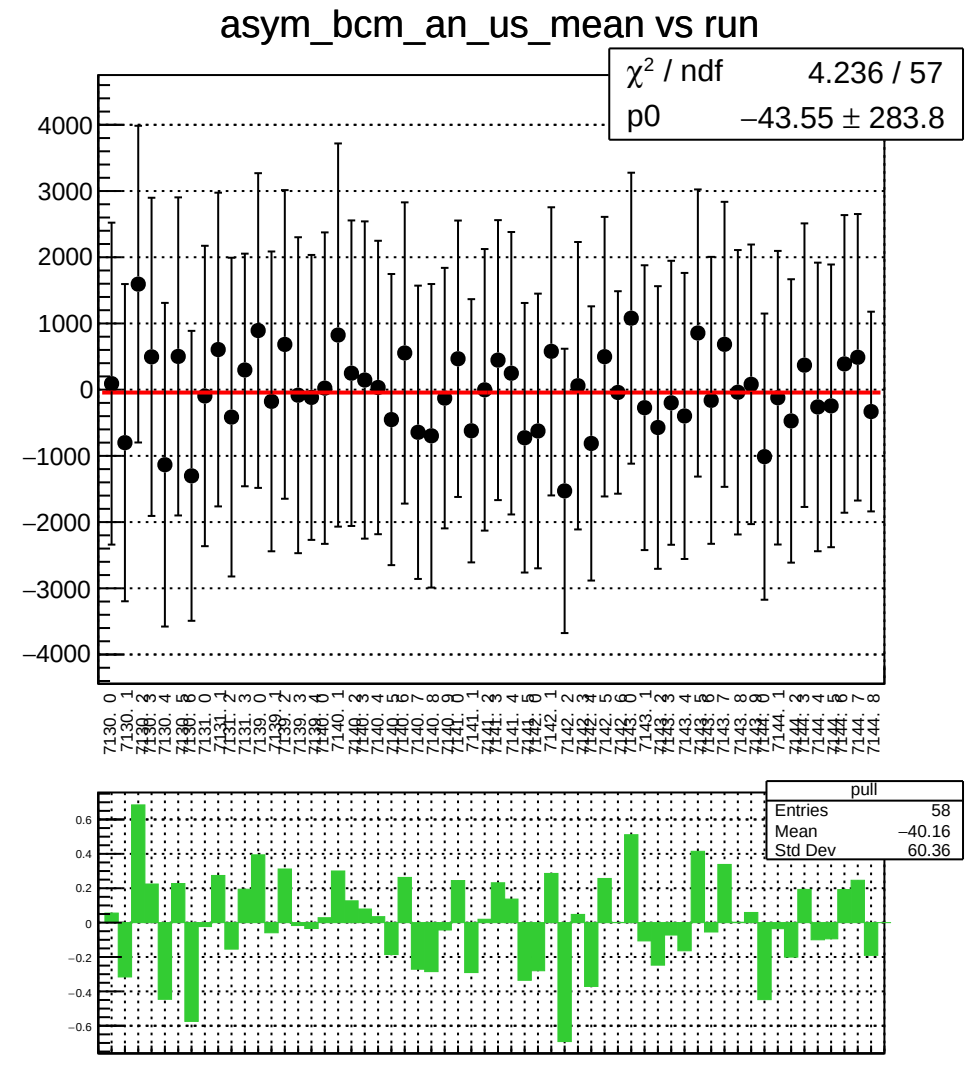

pull1D
Entries 58
Mean 0.00394
Std Dev 0.2463

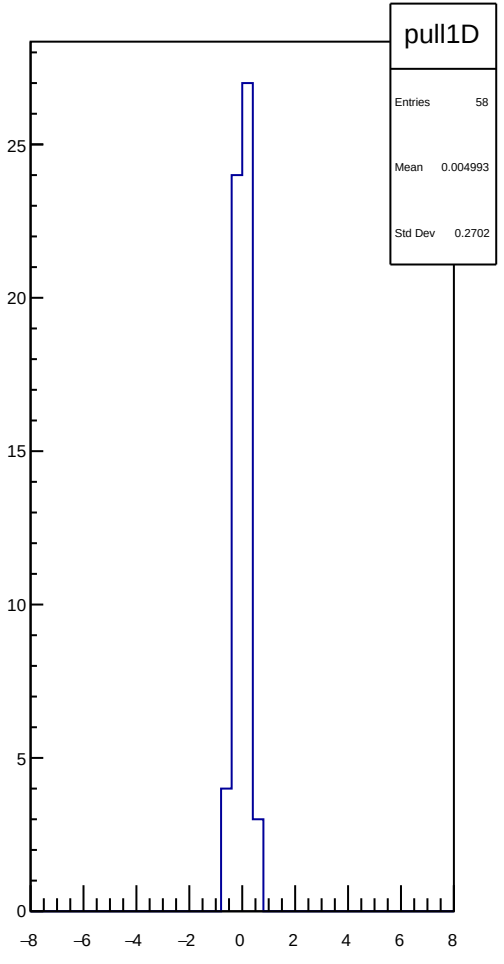

asym_bcm_an_ds_rms vs run
χ² / ndf 4119 / 57
p0 209.4 ± 0.1993
280
260
240
220
200
180

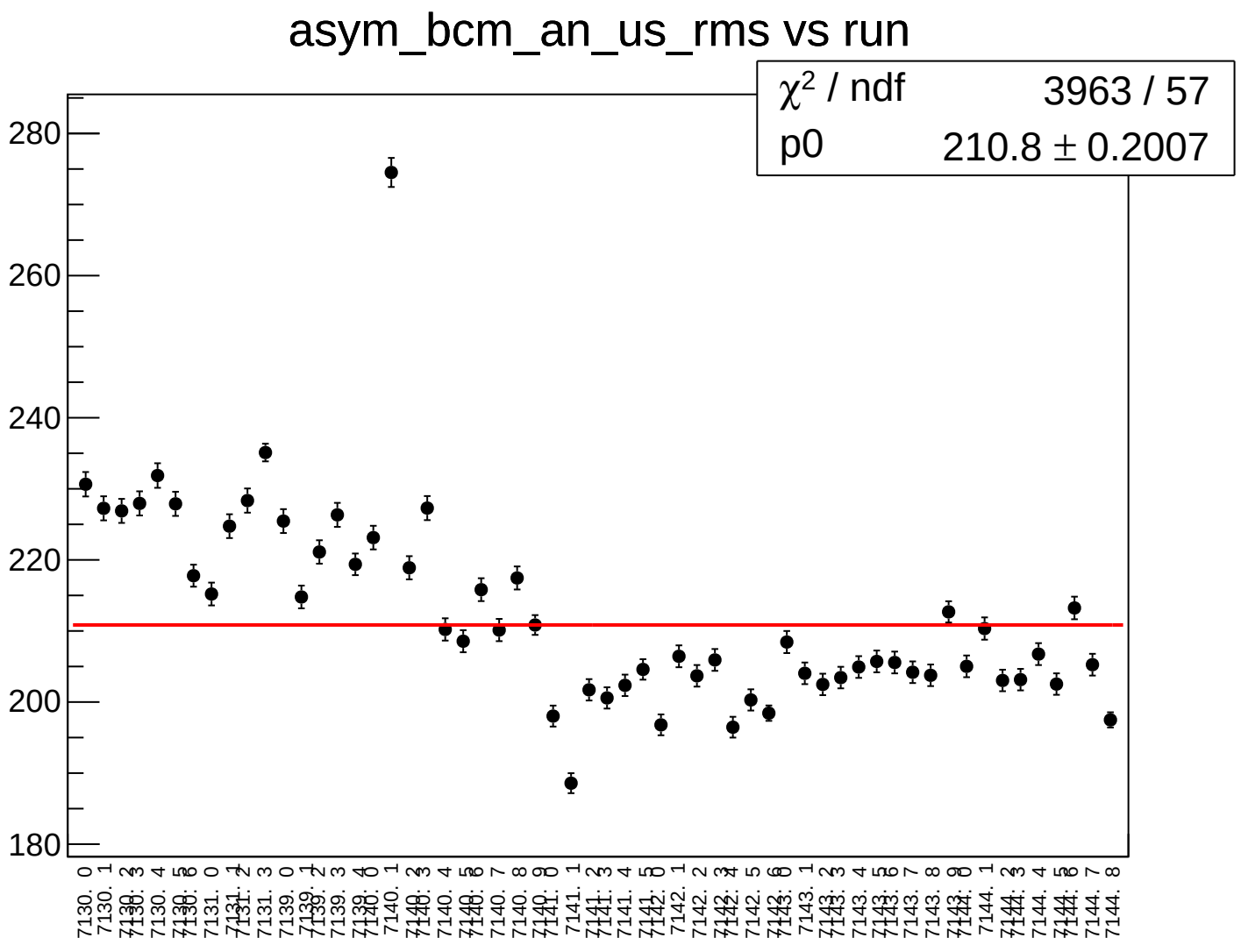

asym_bcm_an_ds3_mean vs run
χ² / ndf 3.678 / 57
p0 −24.01± 284.3
pull
Entries 58
Mean −52.6
Std Dev 73.87

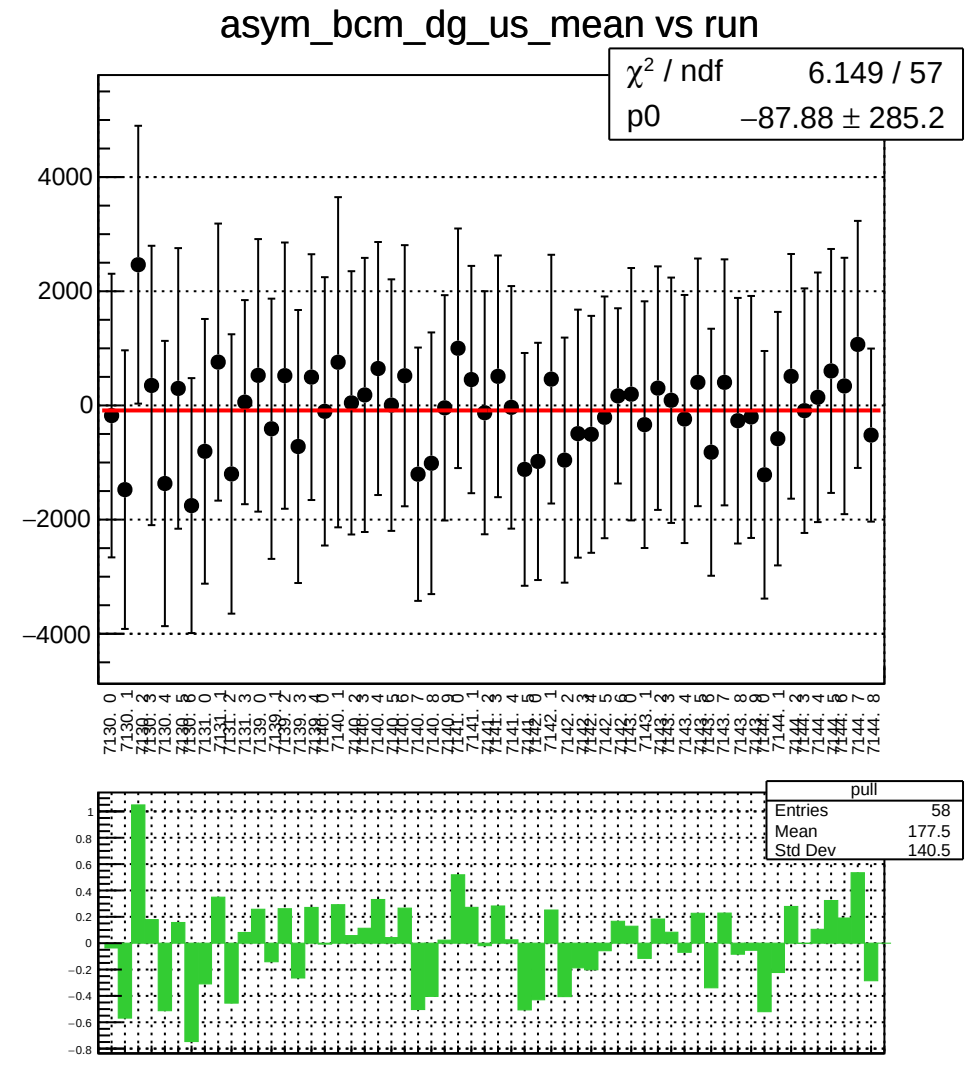

pull1D
Entries 58
Mean 0.003605
Std Dev 0.2518

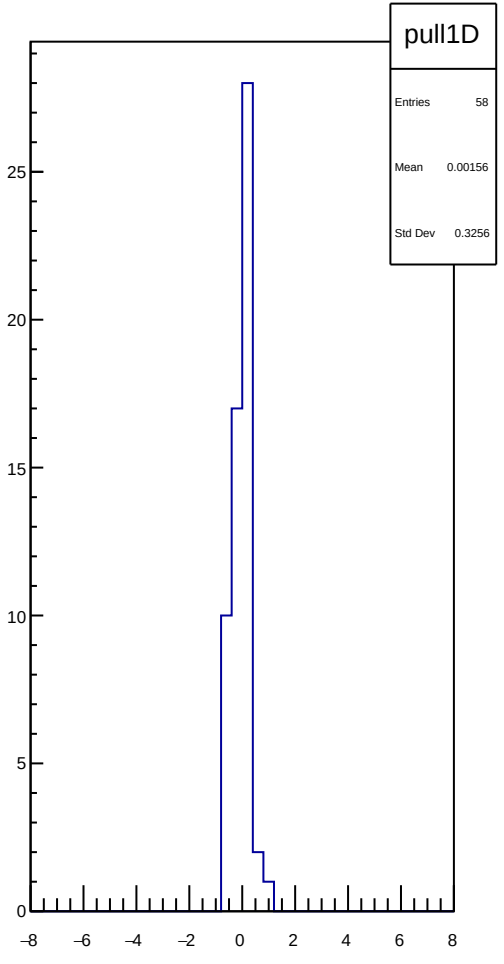

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 4063 / 57
p0 211.2 ± 0.201
280
260
240
220
200
180

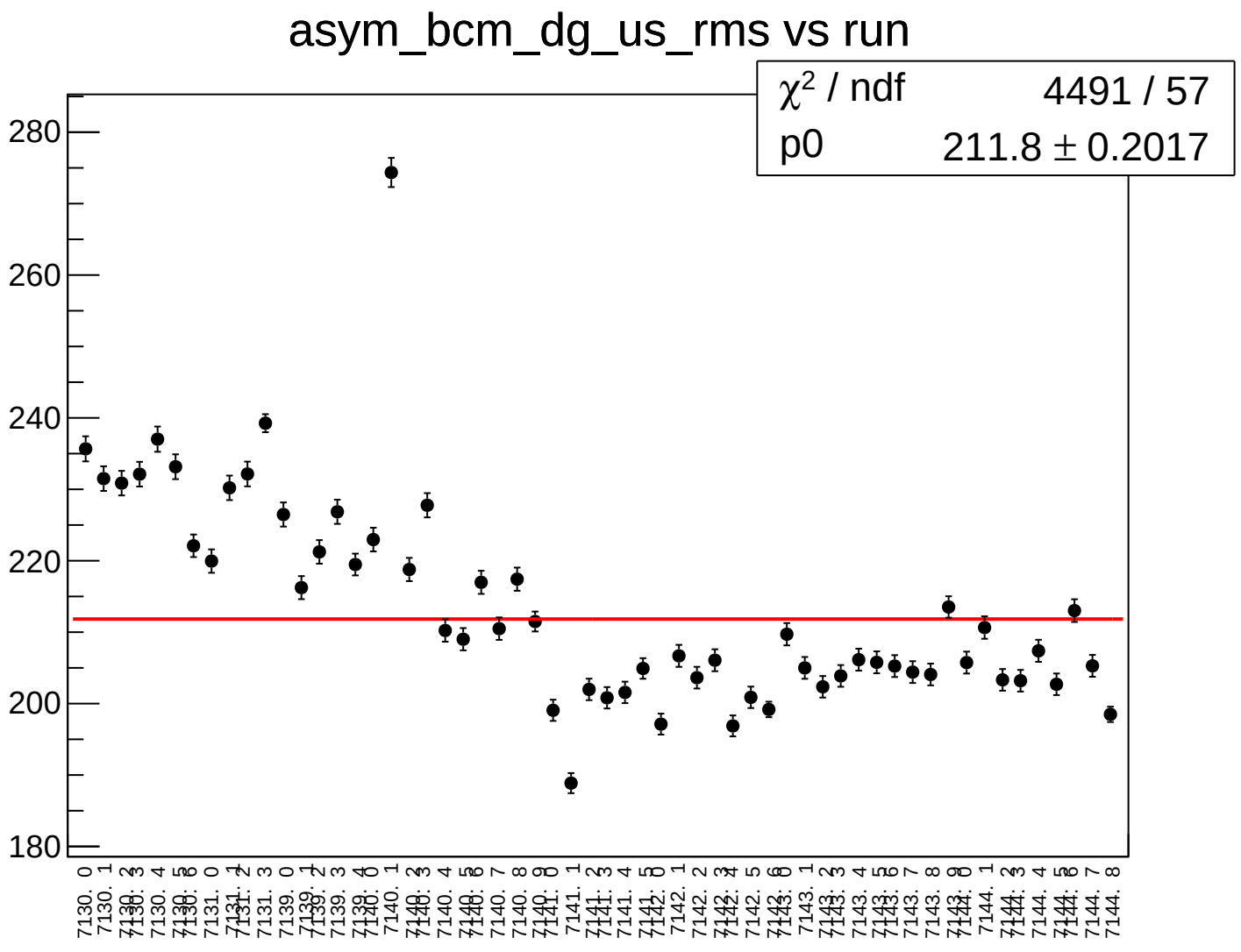

asym_bcm_an_us_mean vs run
χ² / ndf 4.236 / 57
p0 −43.55 ± 283.8
pull
Entries 58
Mean −40.16
Std Dev 60.36

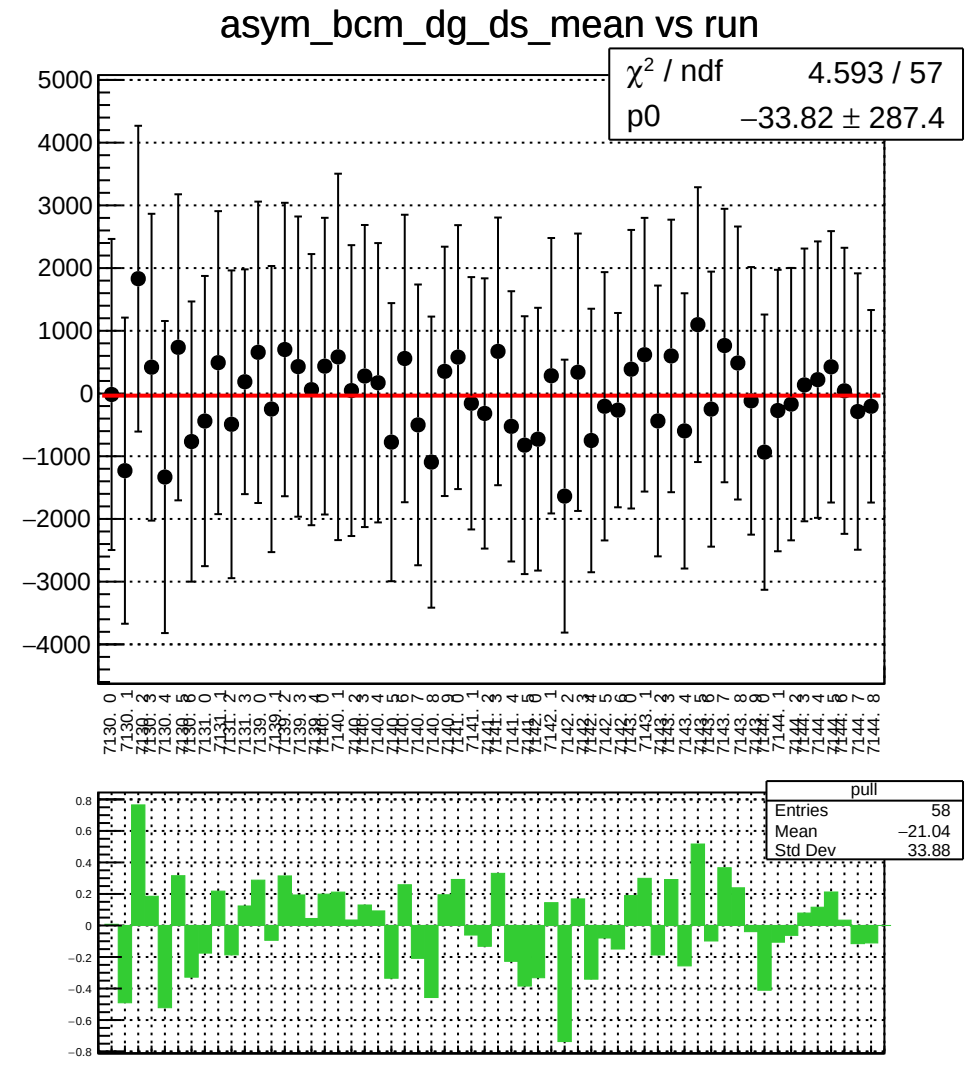

pull1D
Entries 58
Mean 0.004993
Std Dev 0.2702

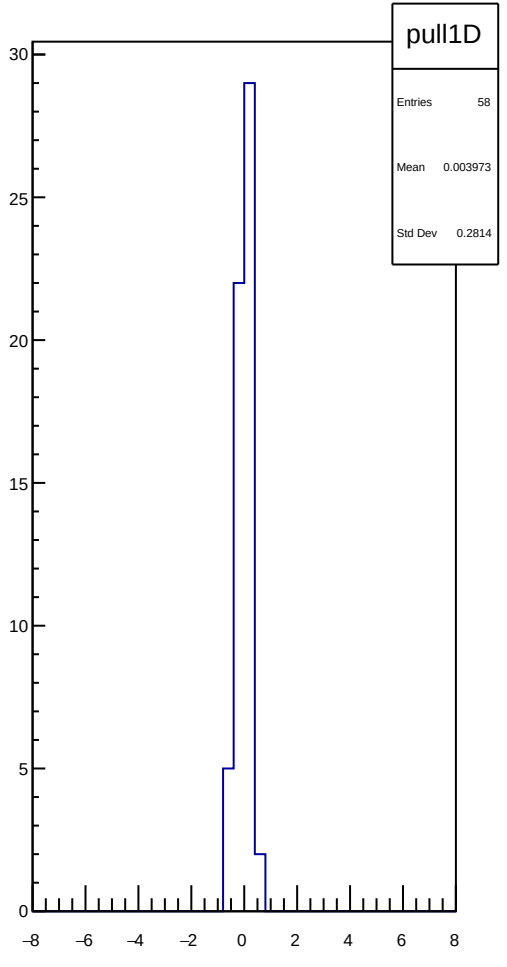

asym_bcm_an_us_rms vs run
χ² / ndf 3963 / 57
p0 210.8 ± 0.2007
280
260
240
220
200
180

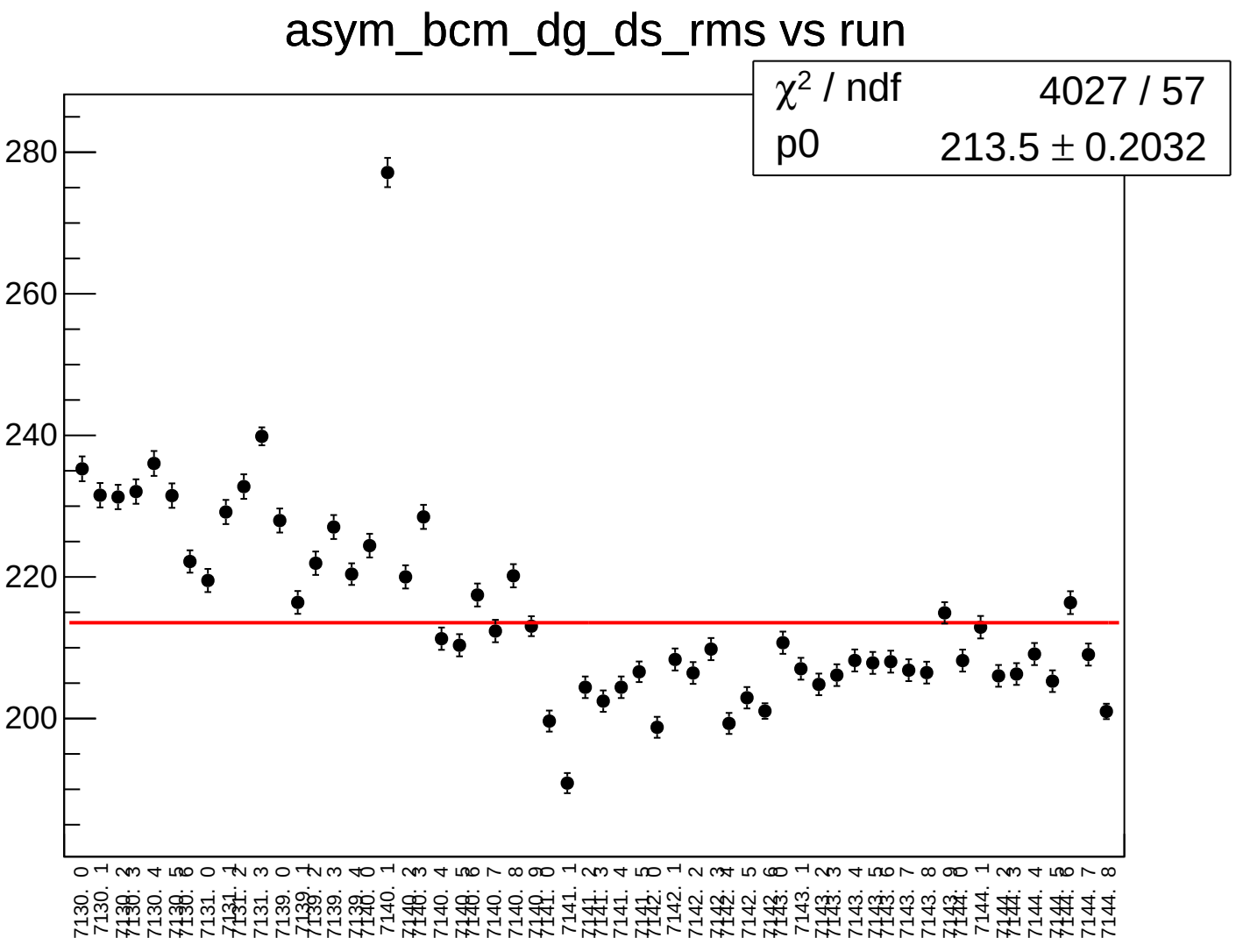

asym_bcm_dg_us_mean vs run
χ² / ndf 6.149 / 57
p0 −87.88 ± 285.2
4000
2000
0
−2000
−4000
pull
Entries 58
Mean 177.5
Std Dev 140.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

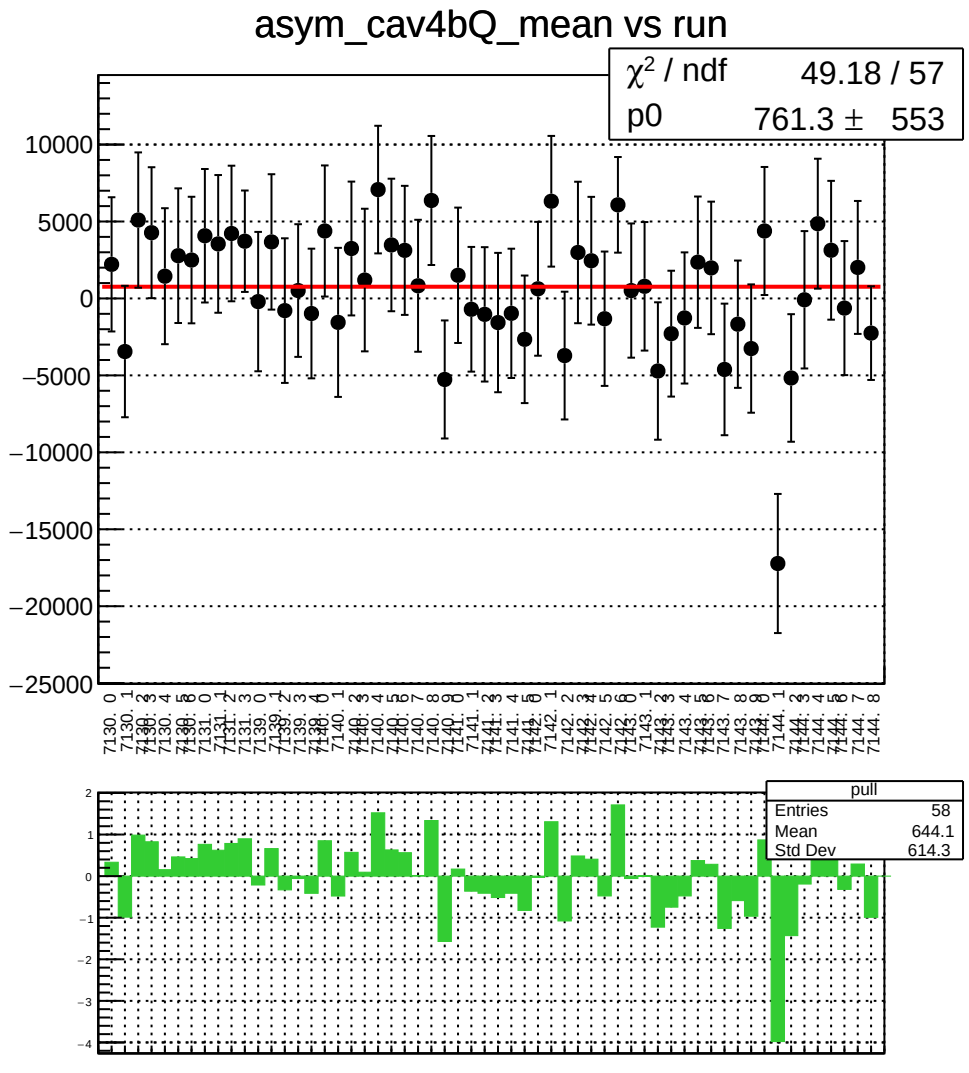

pull1D
Entries 58
Mean 0.00156
Std Dev 0.3256
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

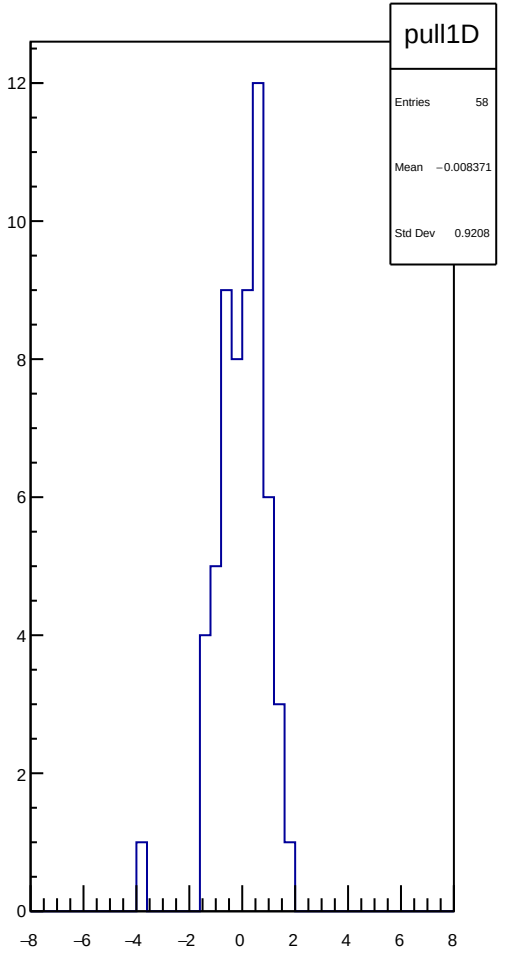

asym_bcm_dg_us_rms vs run
χ² / ndf 4491 / 57
p0 211.8 ± 0.2017
280
260
240
220
200
180

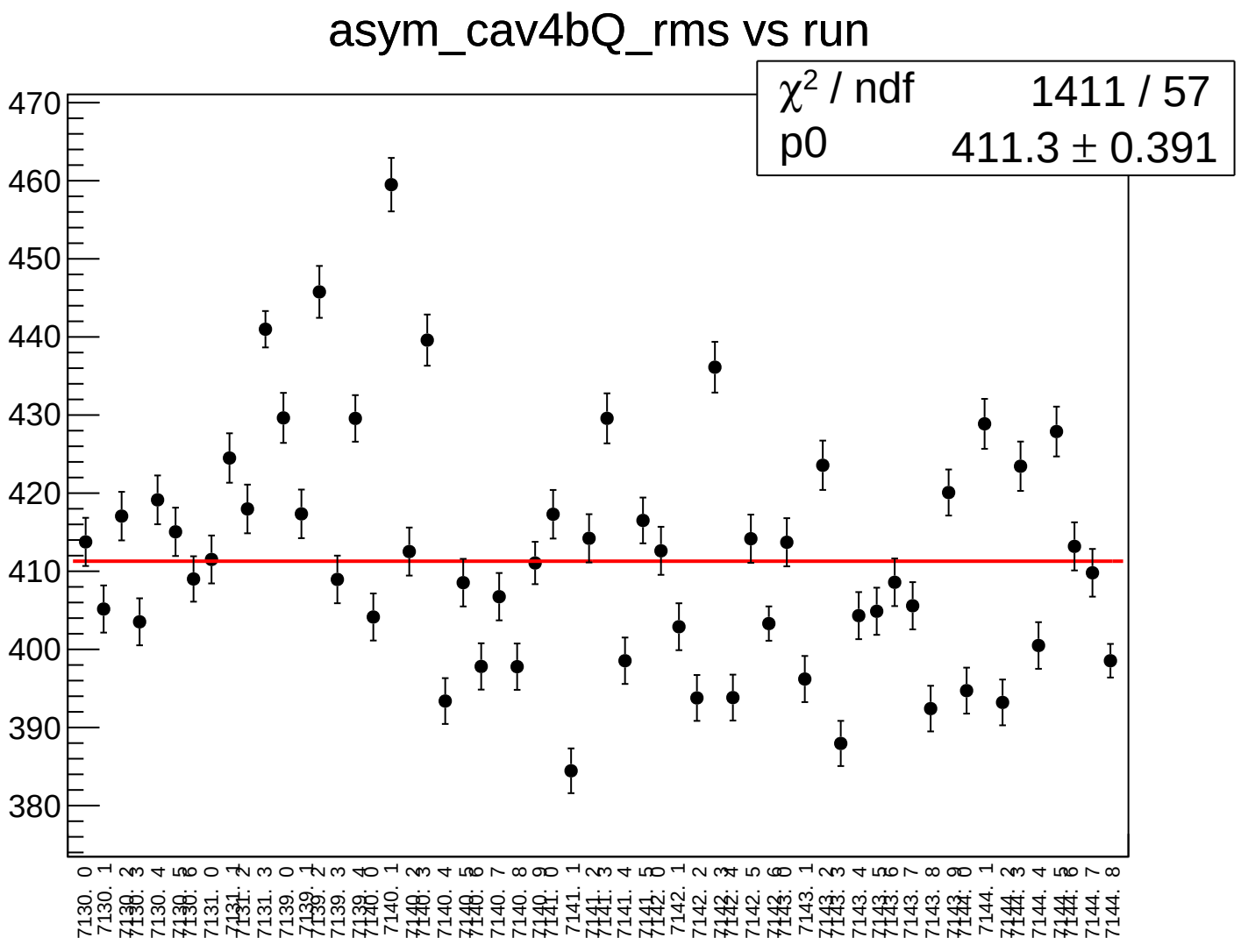

asym_bcm_dg_ds_mean vs run
χ² / ndf 4.593 / 57
p0 −33.82 ± 287.4
pull
Entries 58
Mean −21.04
Std Dev 33.88

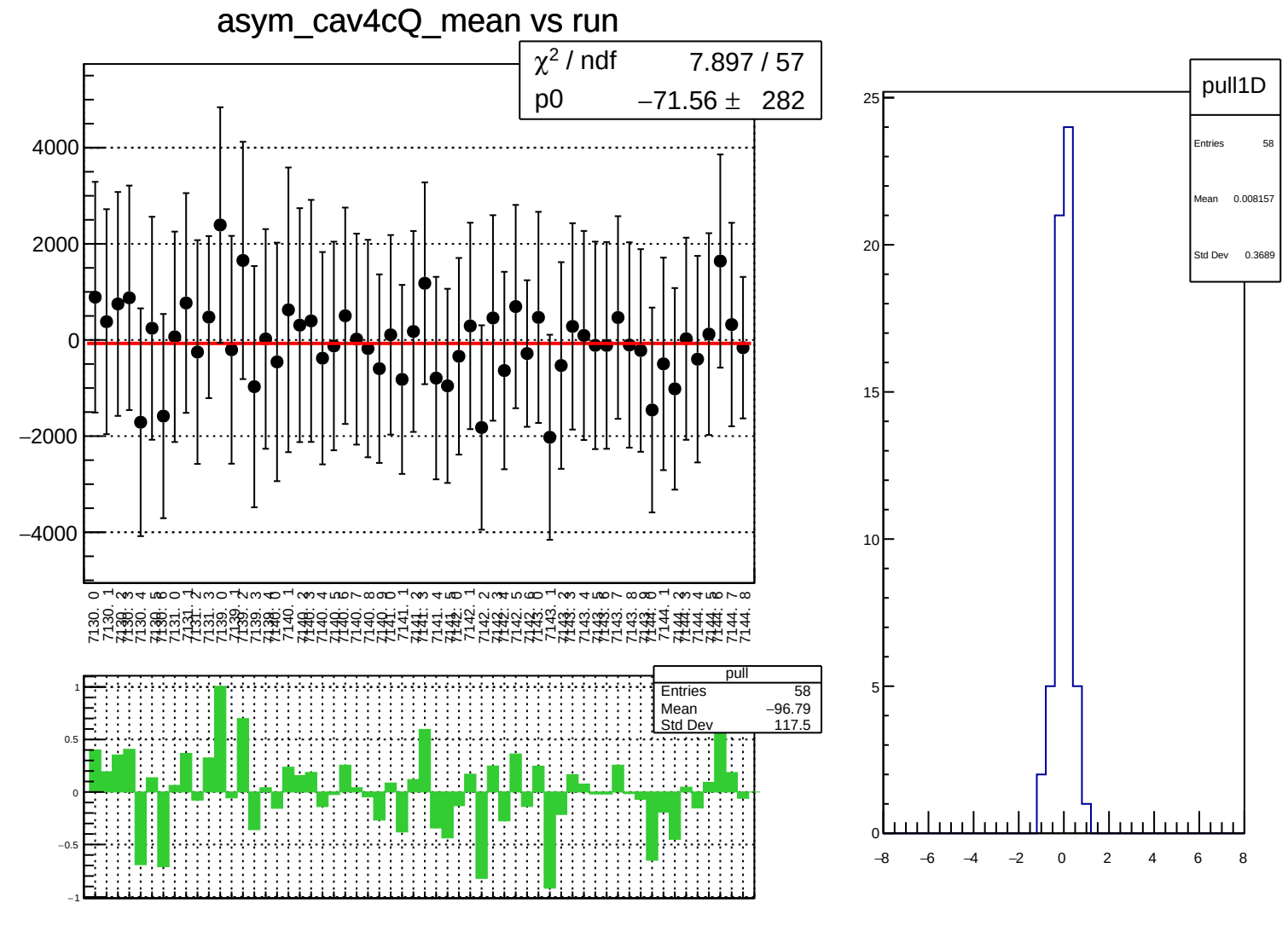

pull1D
Entries 58
Mean 0.003973
Std Dev 0.2814

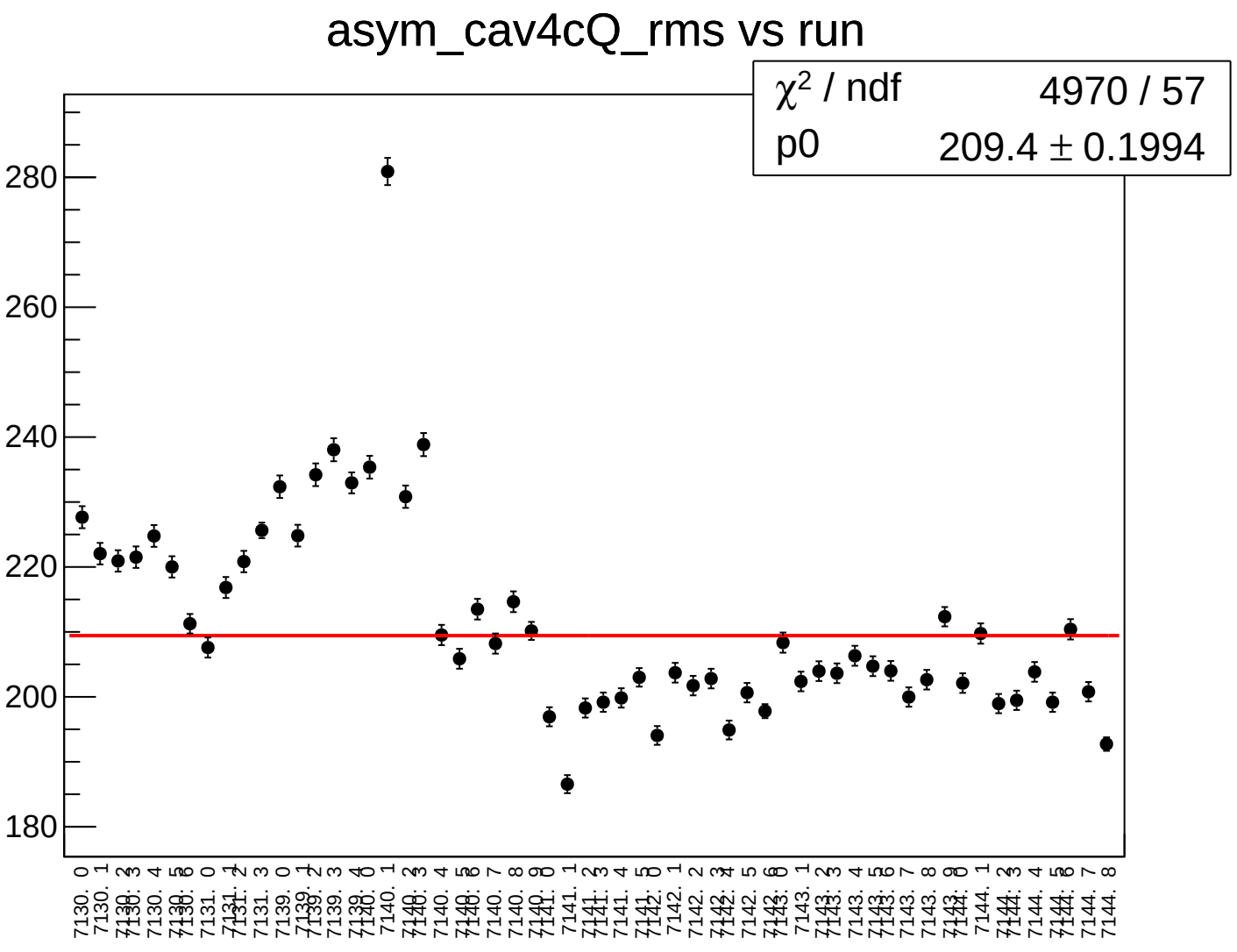

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 4027 / 57
p0 213.5 ± 0.2032
280
260
240
220
200

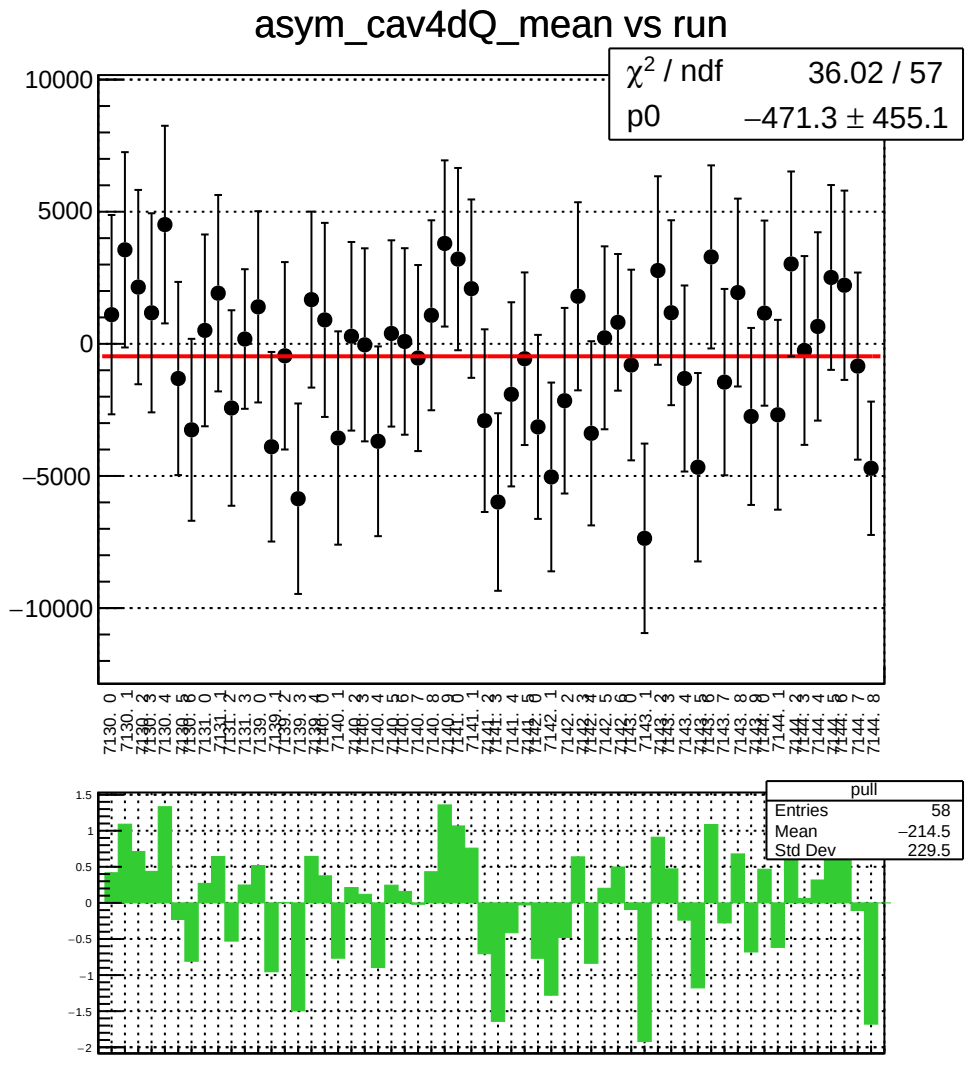

asym_cav4bQ_mean vs run
χ² / ndf 49.18 / 57
p0 761.3 ± 553
pull
Entries 58
Mean 644.1
Std Dev 614.3

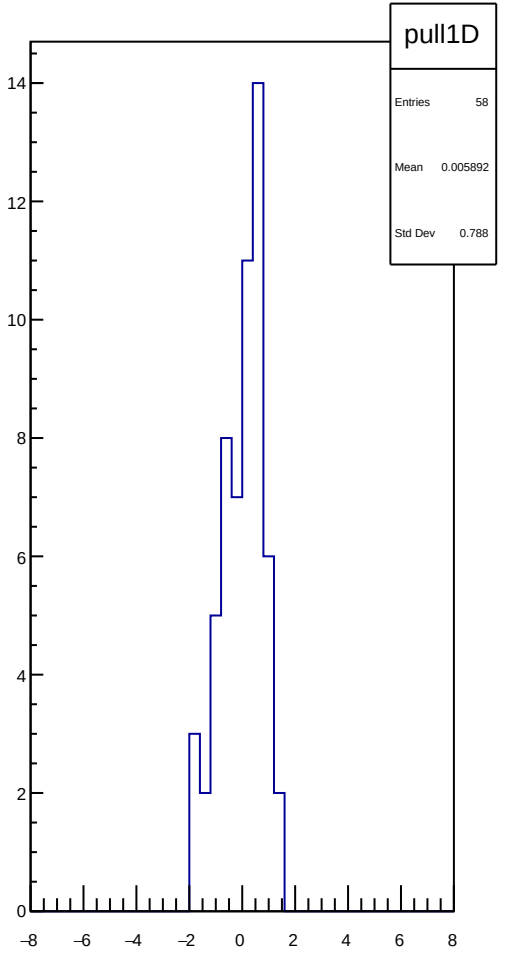

pull1D
Entries 58
Mean −0.008371
Std Dev 0.9208

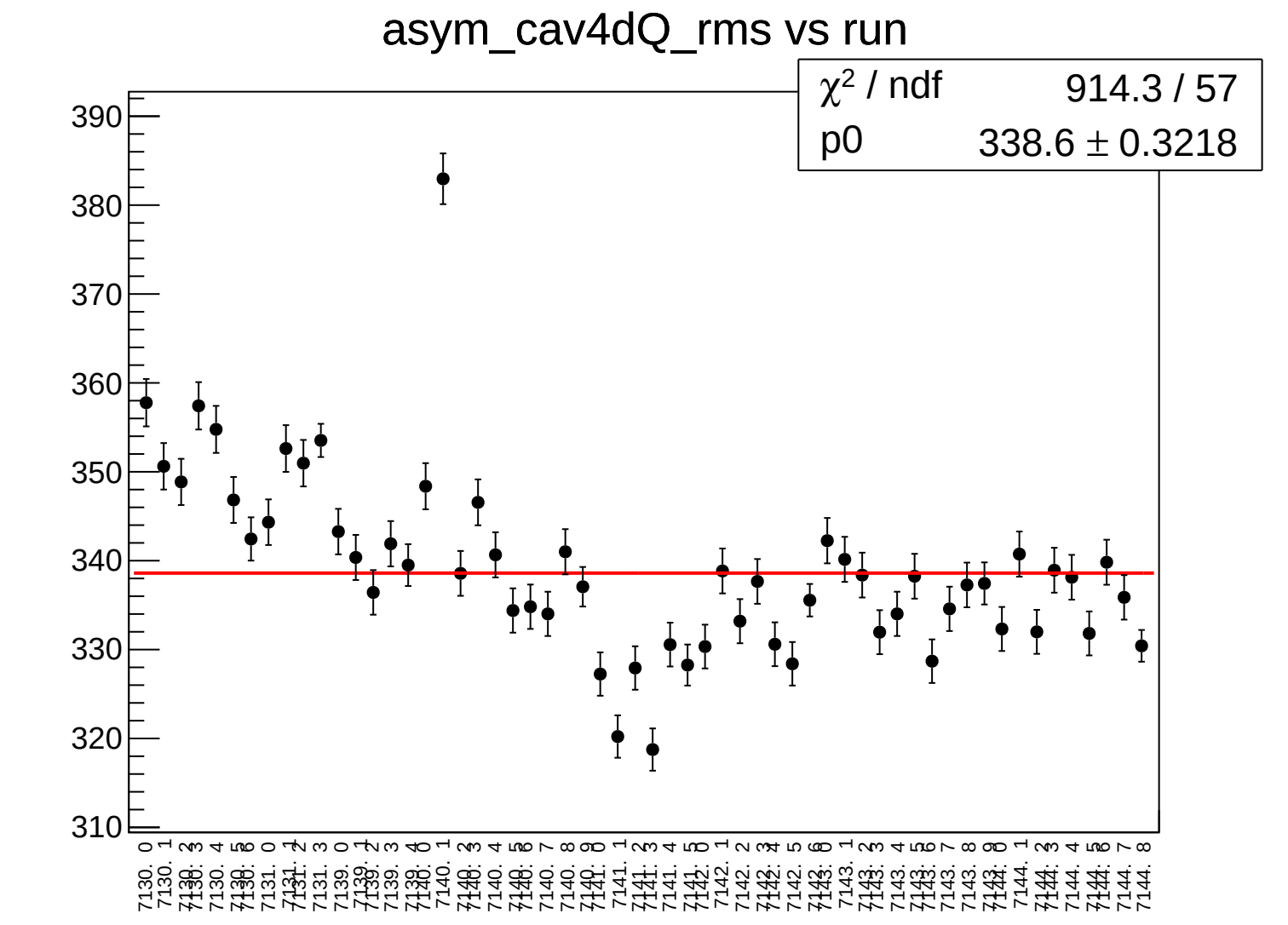

asym_cav4bQ_rms vs run
χ² / ndf 1411 / 57
p0 411.3 ± 0.391
470
460
450
440
430
420
410
400
390
380

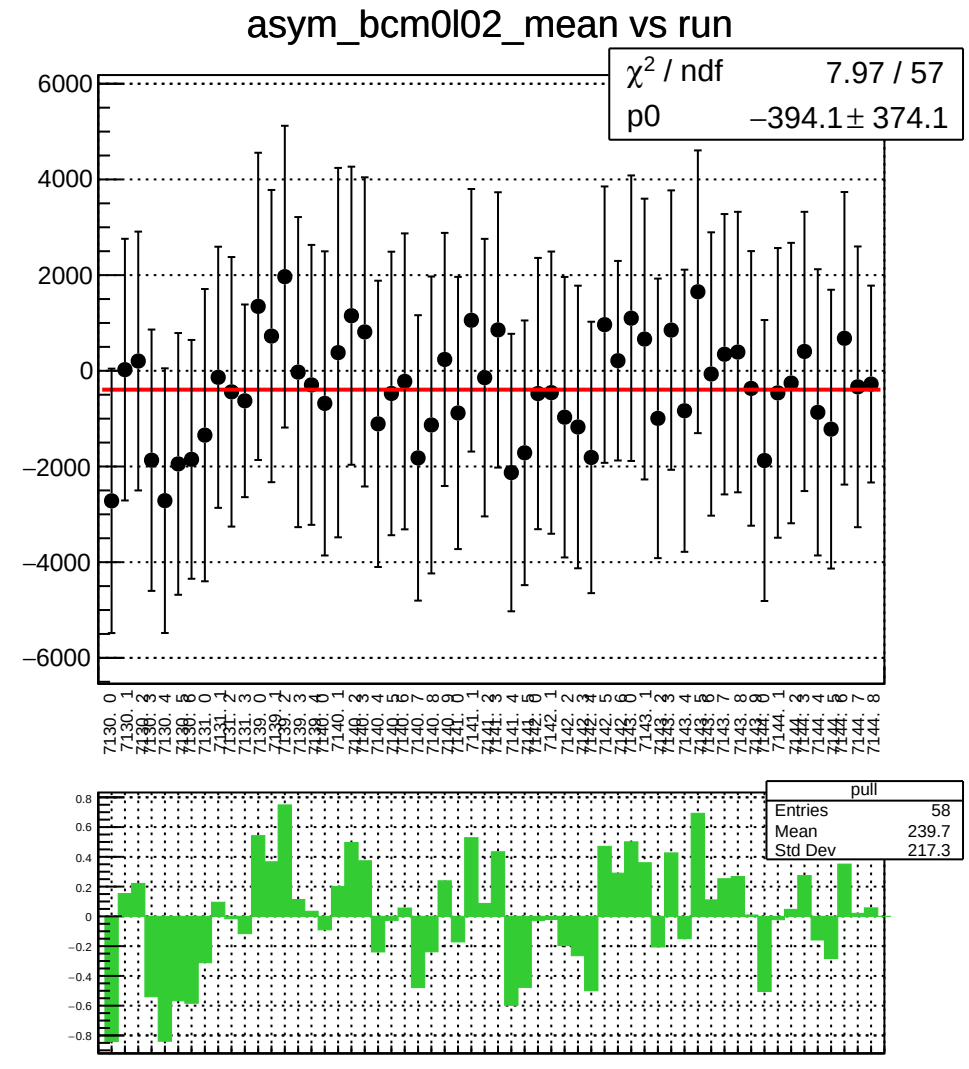

asym_cav4cQ_mean vs run
χ² / ndf 7.897 / 57
p0 −71.56 ± 282
4000
2000
0
−2000
−4000
pull
Entries 58
Mean −96.79
Std Dev 117.5
1
0.5
0
−0.5
−1
pull1D
Entries 58
Mean 0.008157
Std Dev 0.3689
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

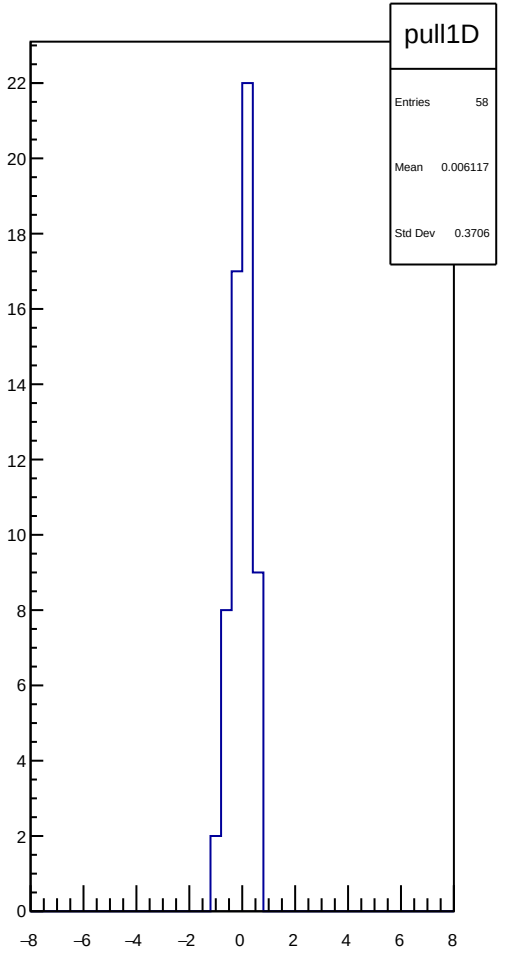

asym_cav4cQ_rms vs run
χ² / ndf 4970 / 57
p0 209.4 ± 0.1994
280
260
240
220
200
180

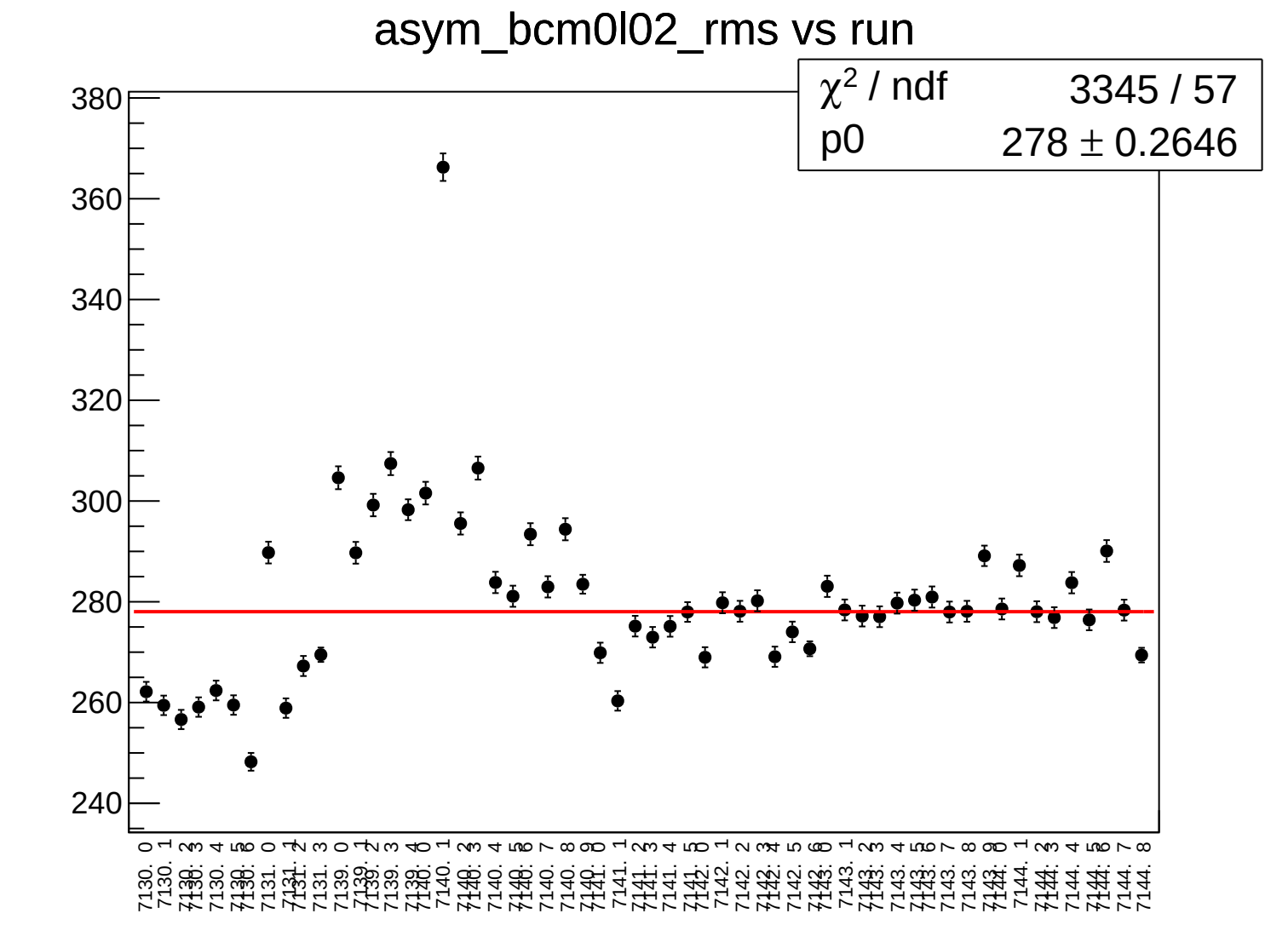

asym_cav4dQ_mean vs run
χ² / ndf 36.02 / 57
p0 −471.3 ± 455.1
pull
Entries 58
Mean −214.5
Std Dev 229.5

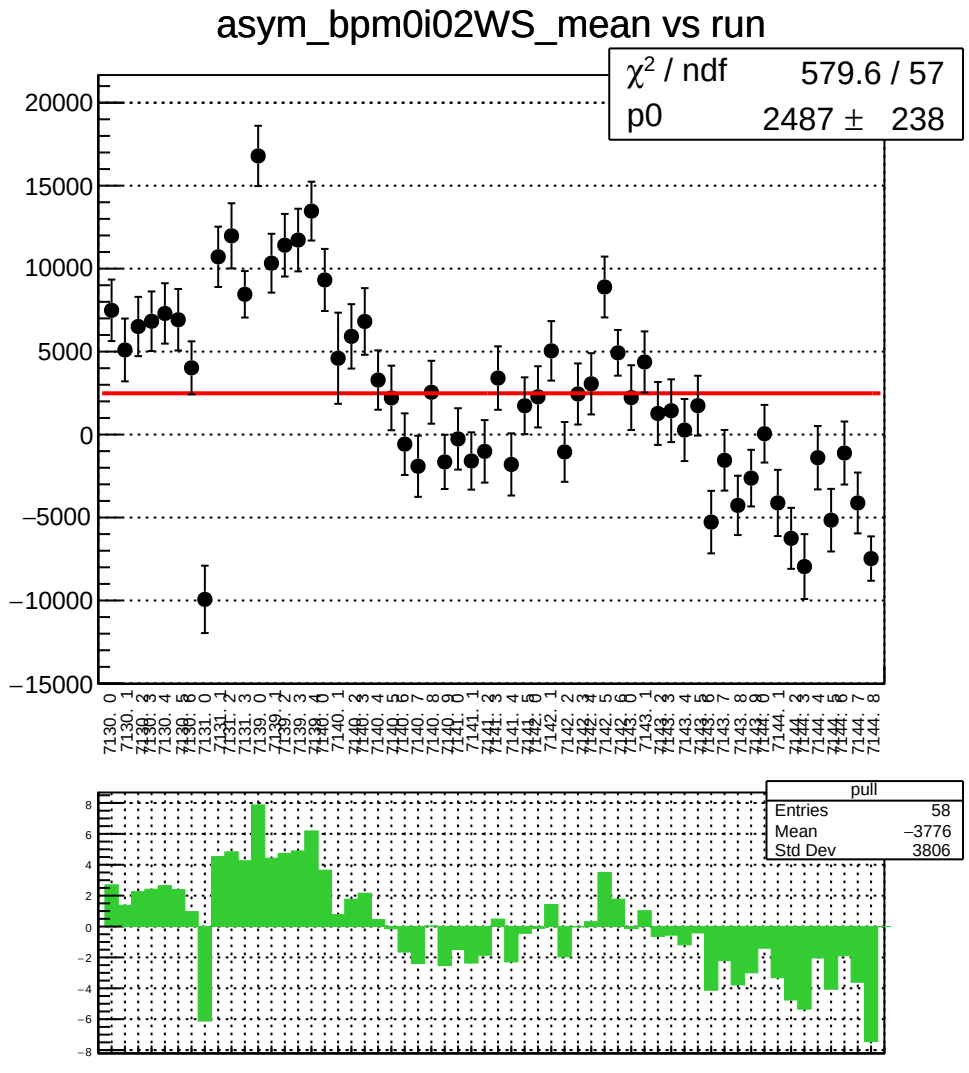

pull1D
Entries 58
Mean 0.005892
Std Dev 0.788

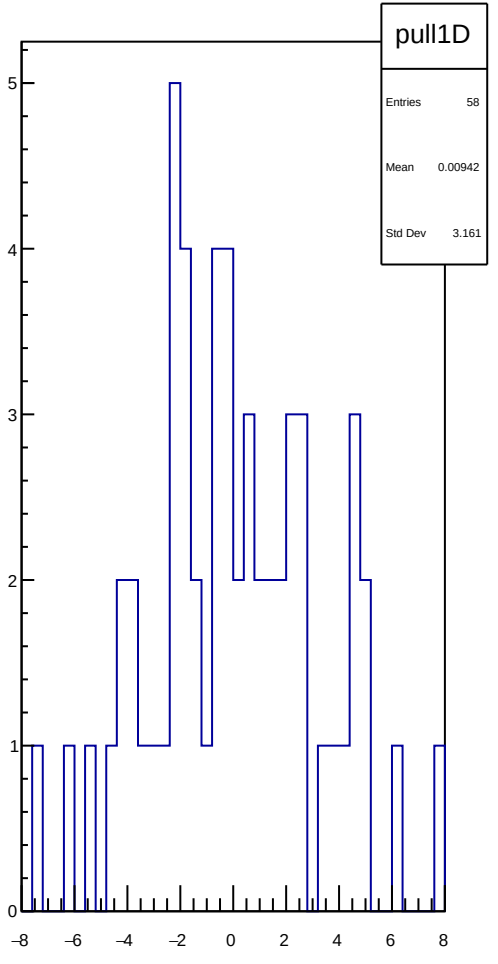

asym_cav4dQ_rms vs run
χ² / ndf 914.3 / 57
p0 338.6 ± 0.3218
390
380
370
360
350
340
330
320
310

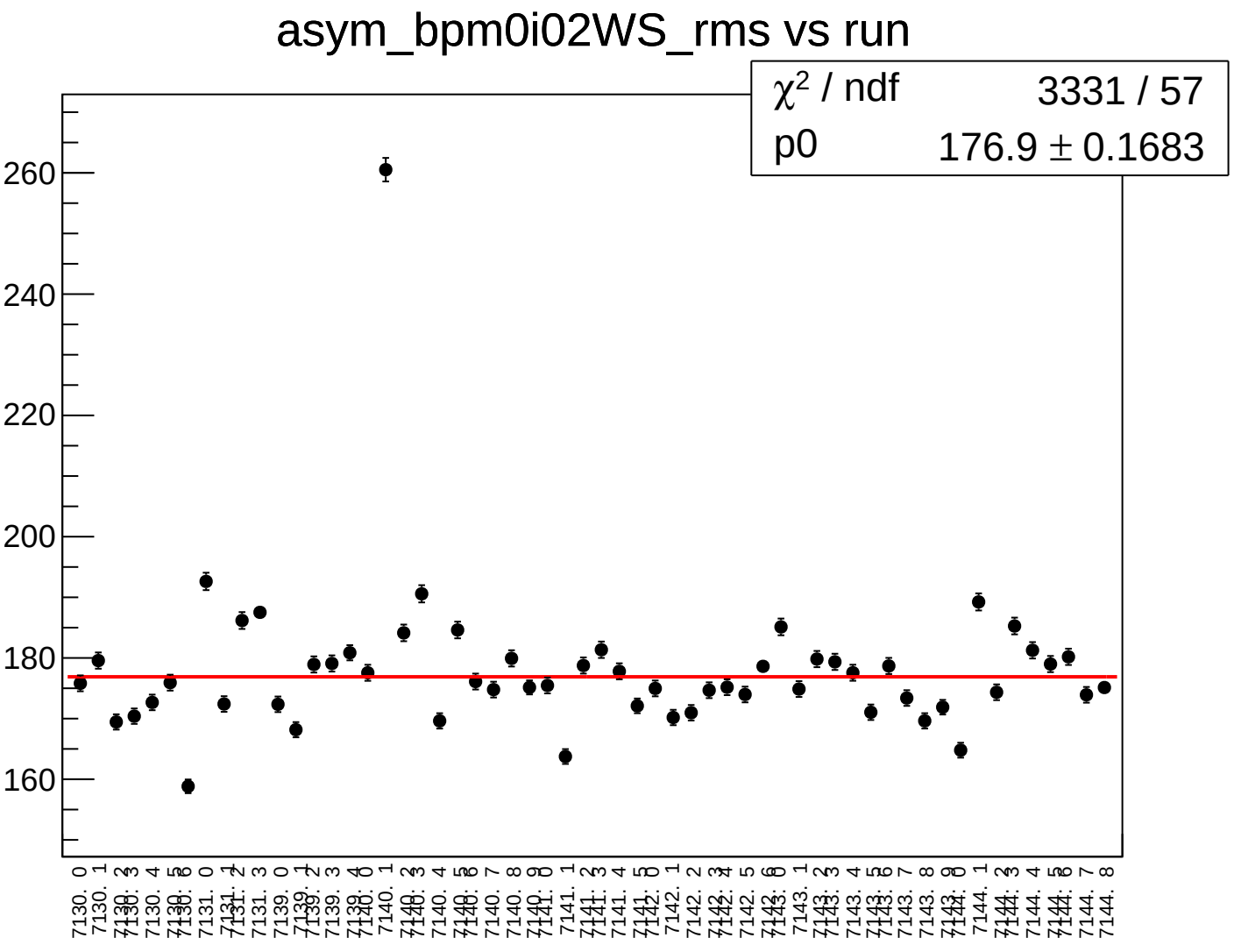

asym_bcm0l02_mean vs run
χ² / ndf 7.97 / 57
p0 −394.1 ± 374.1
pull
Entries 58
Mean 239.7
Std Dev 217.3

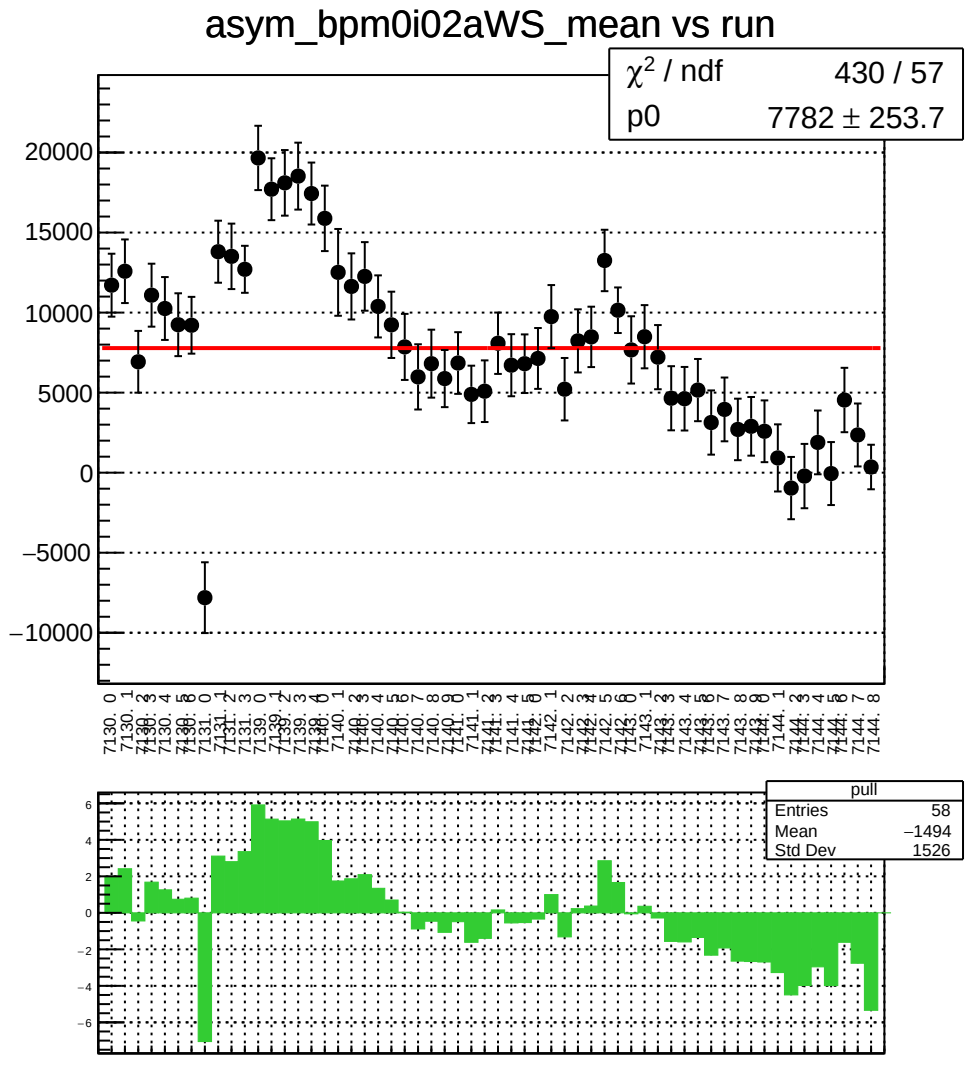

pull1D
Entries 58
Mean 0.006117
Std Dev 0.3706

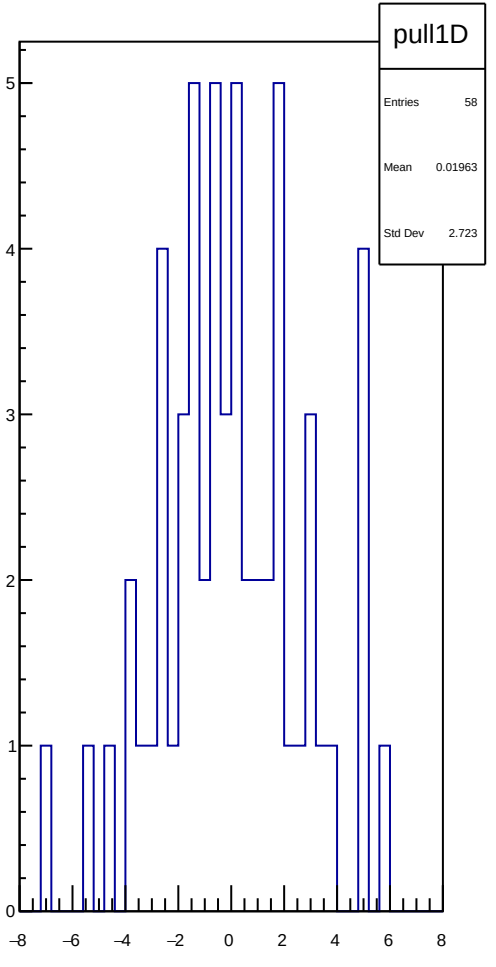

asym_bcm0l02_rms vs run
χ² / ndf 3345 / 57
p0 278 ± 0.2646
380
360
340
320
300
280
260
240

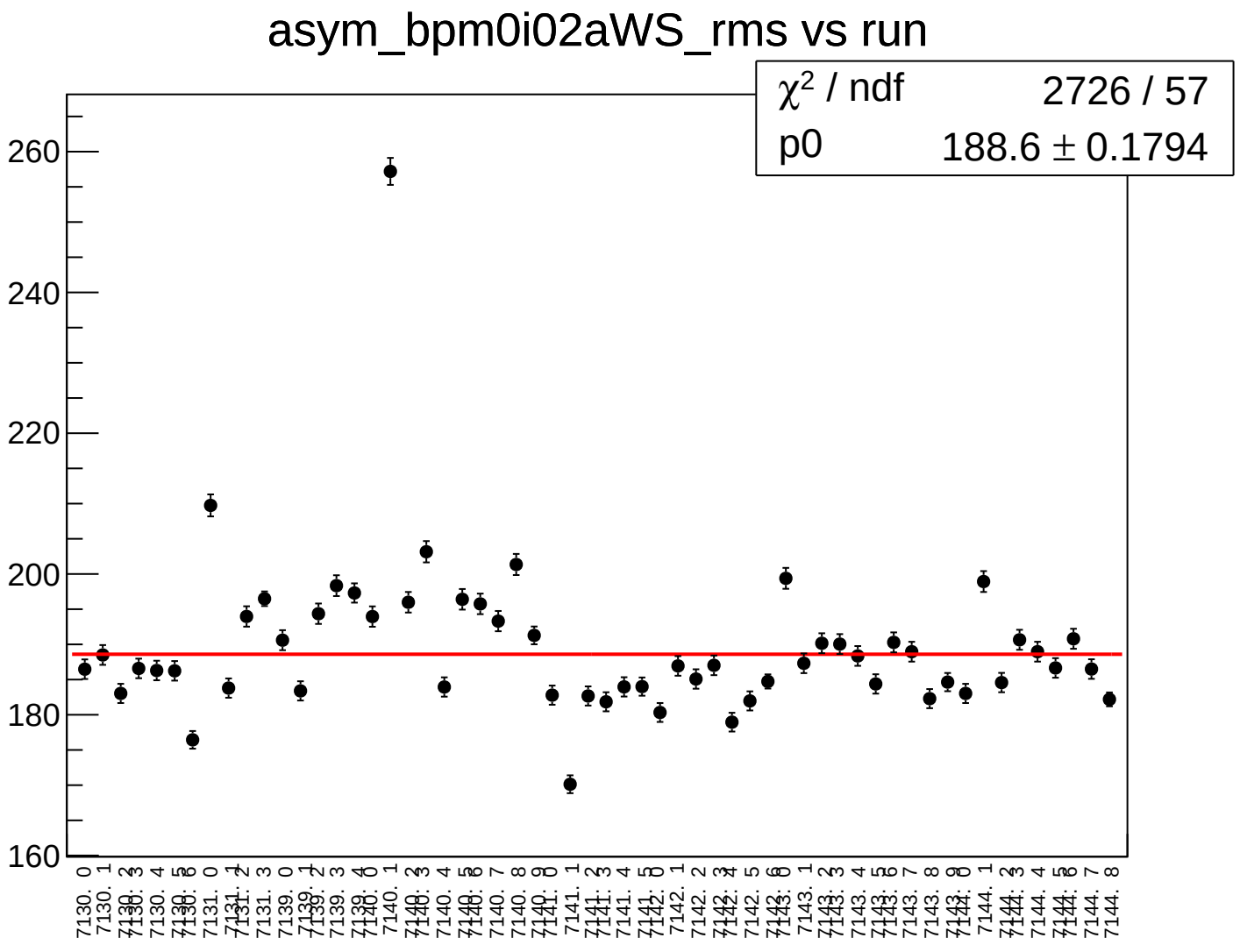

asym_bpm0i02WS_mean vs run
χ² / ndf 579.6 / 57
p0 2487 ± 238
pull
Entries 58
Mean −3776
Std Dev 3806

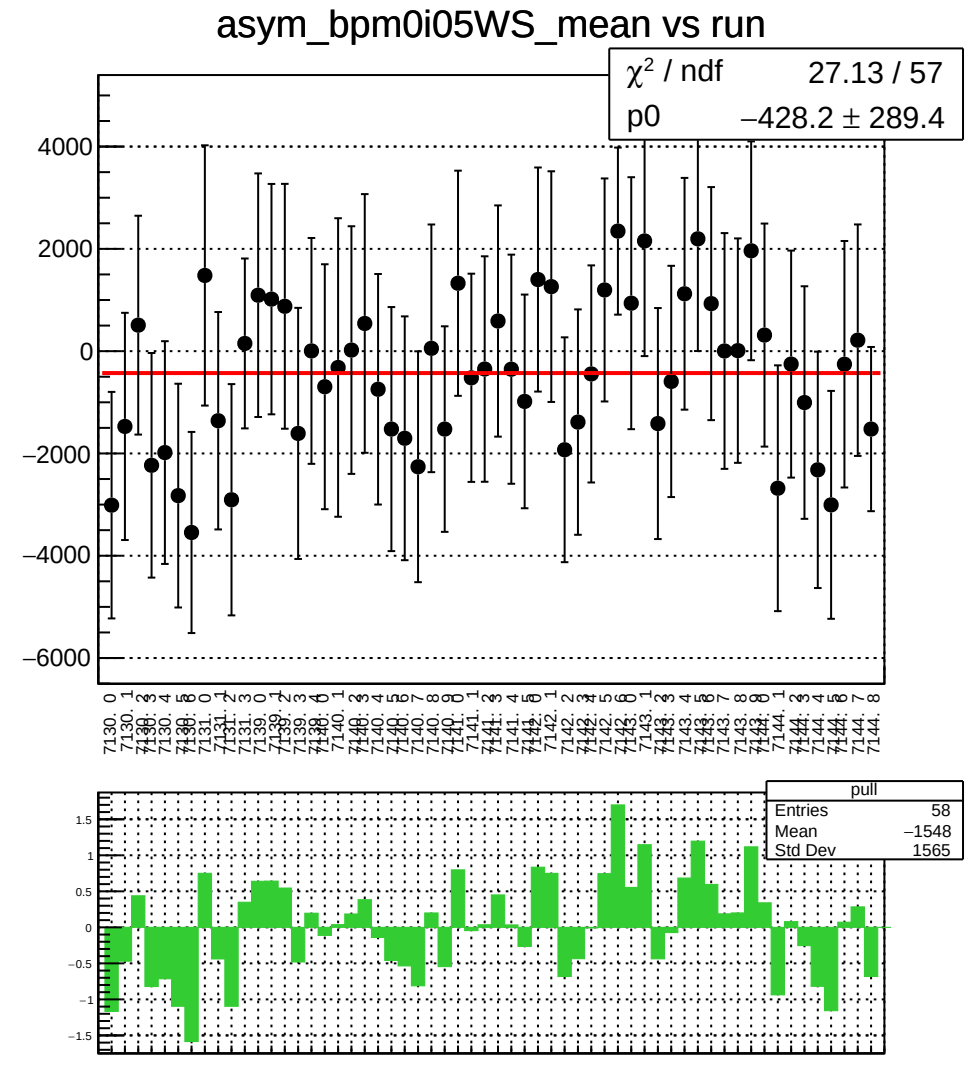

pull1D
Entries 58
Mean 0.00942
Std Dev 3.161

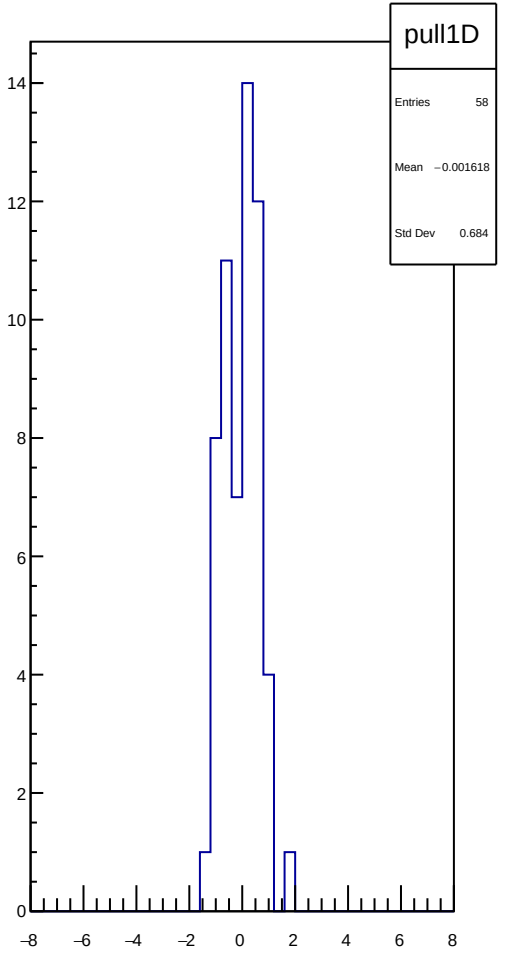

asym_bpm0i02WS_rms vs run
χ² / ndf 3331 / 57
p0 176.9 ± 0.1683
260
240
220
200
180
160

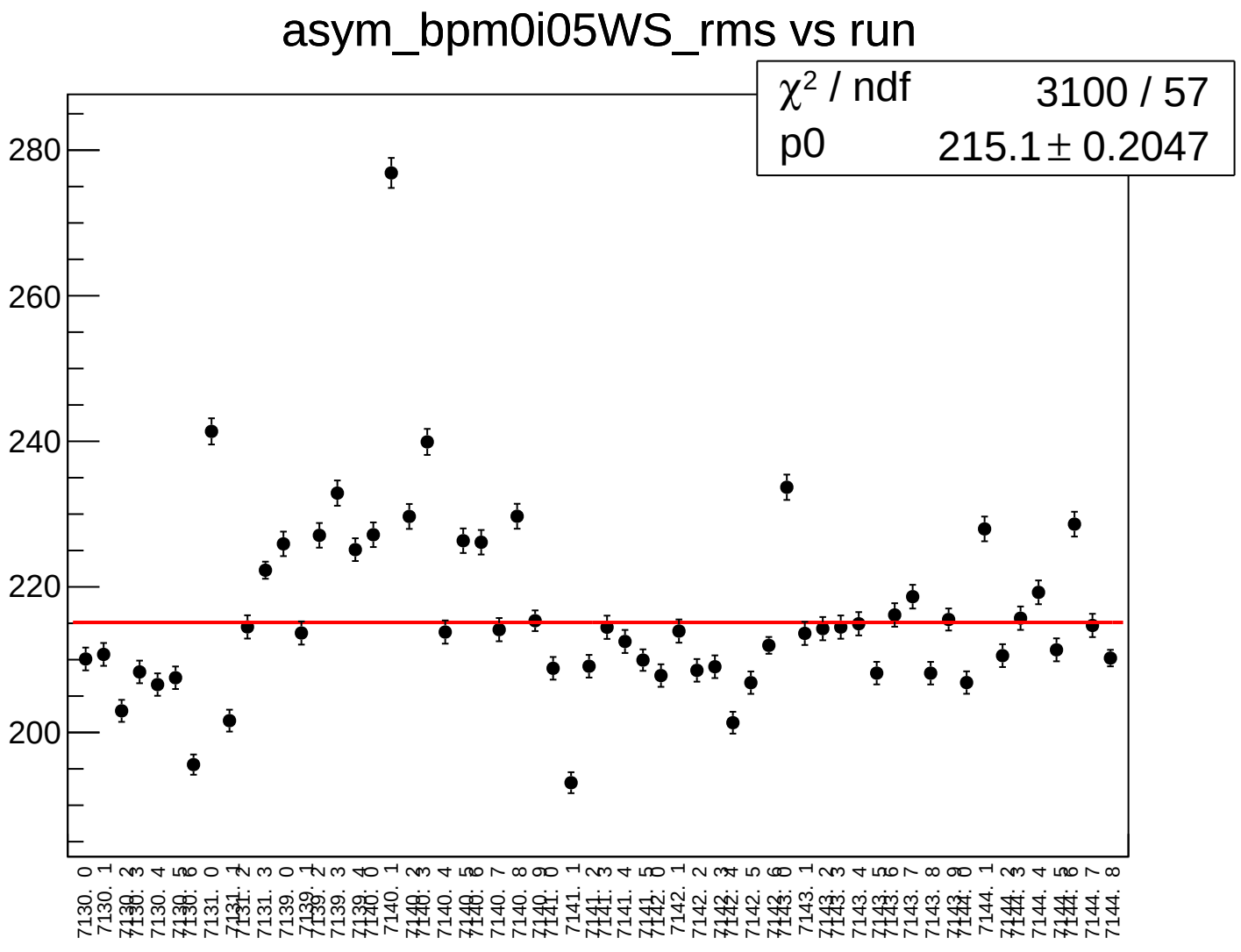

asym_bpm0i02aWS_mean vs run
χ² / ndf 430 / 57
p0 7782 ± 253.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −1494
Std Dev 1526
6
4
2
0
−2
−4
−6

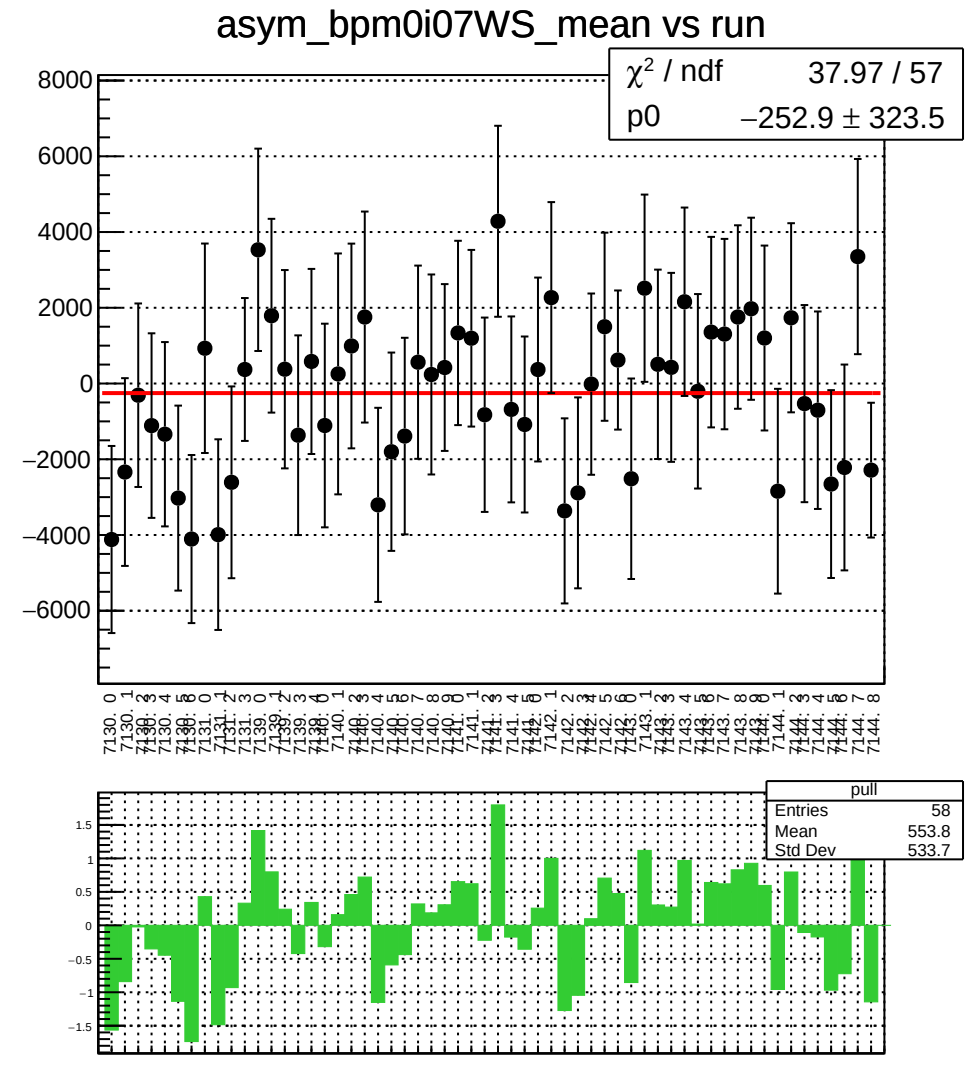

pull1D
Entries 58
Mean 0.01963
Std Dev 2.723
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

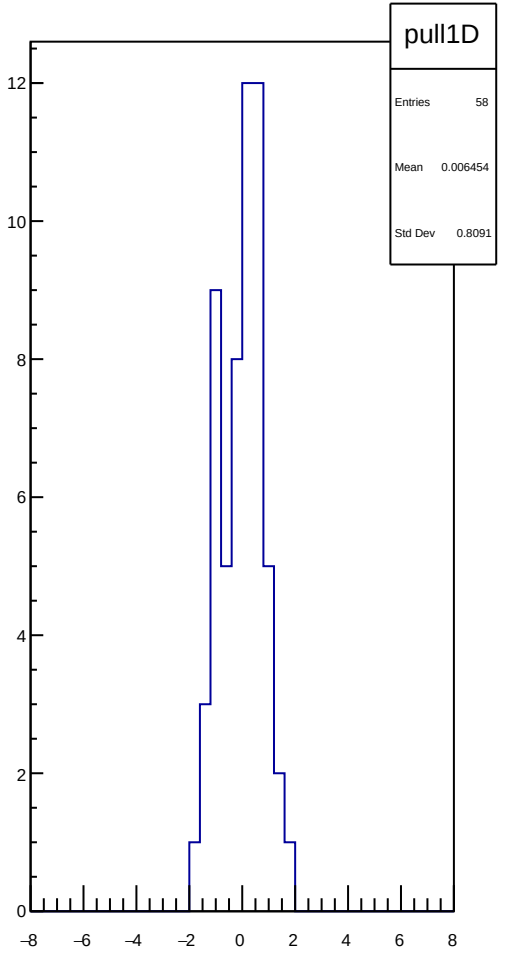

asym_bpm0i02aWS_rms vs run
χ² / ndf 2726 / 57
p0 188.6 ± 0.1794
260
240
220
200
180
160

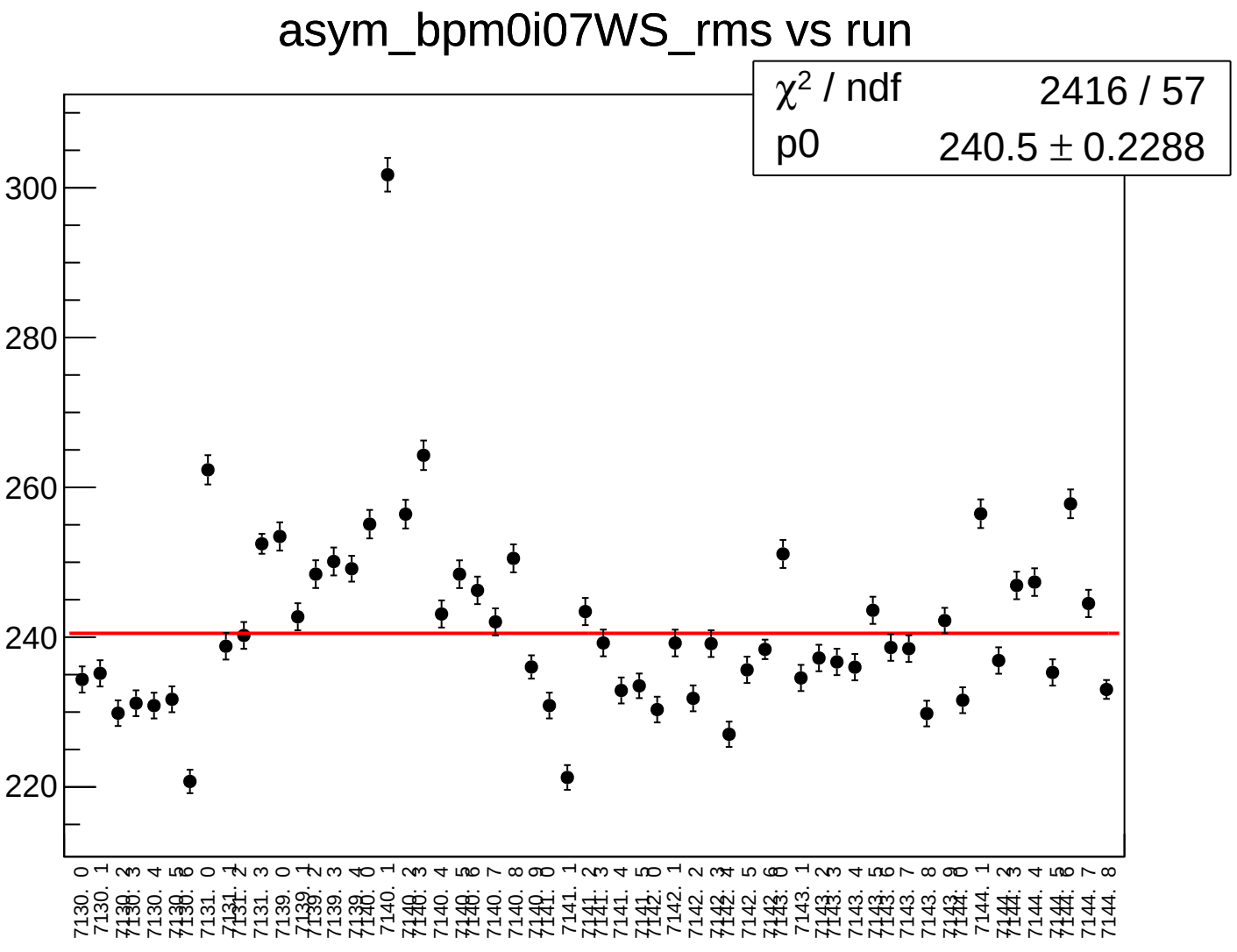

asym_bpm0i05WS_mean vs run
χ² / ndf 27.13 / 57
p0 −428.2 ± 289.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean −1548
Std Dev 1565
1.5
1
0.5
0
−0.5
−1
−1.5

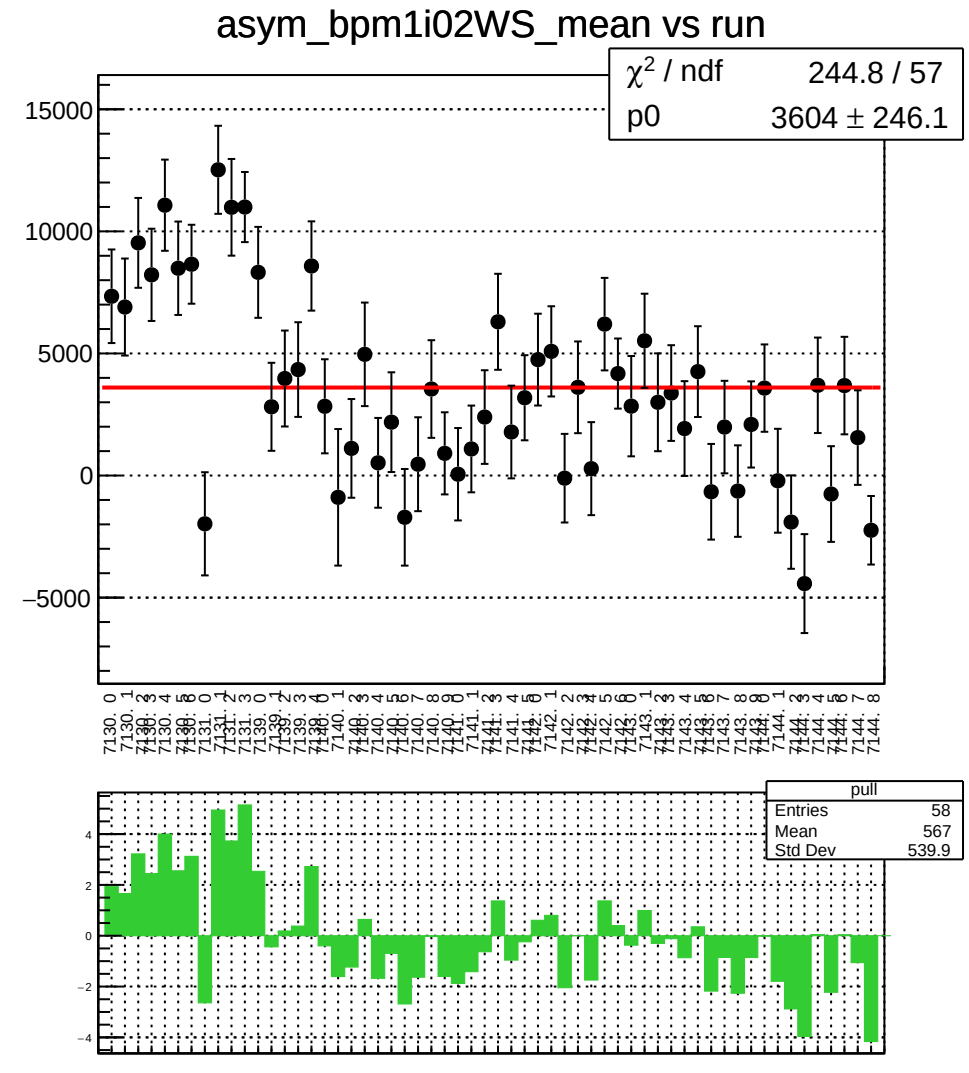

pull1D
Entries 58
Mean −0.001618
Std Dev 0.684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

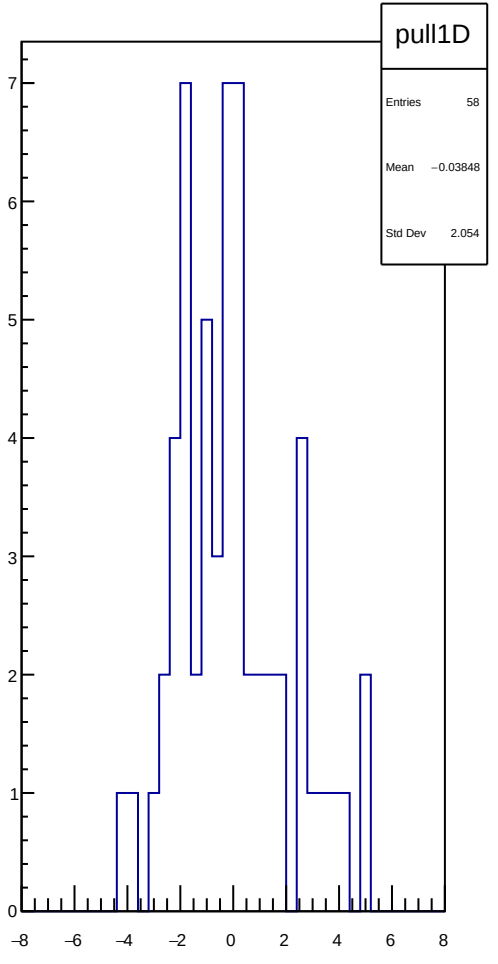

asym_bpm0i05WS_rms vs run
χ² / ndf 3100 / 57
p0 215.1 ± 0.2047
280
260
240
220
200

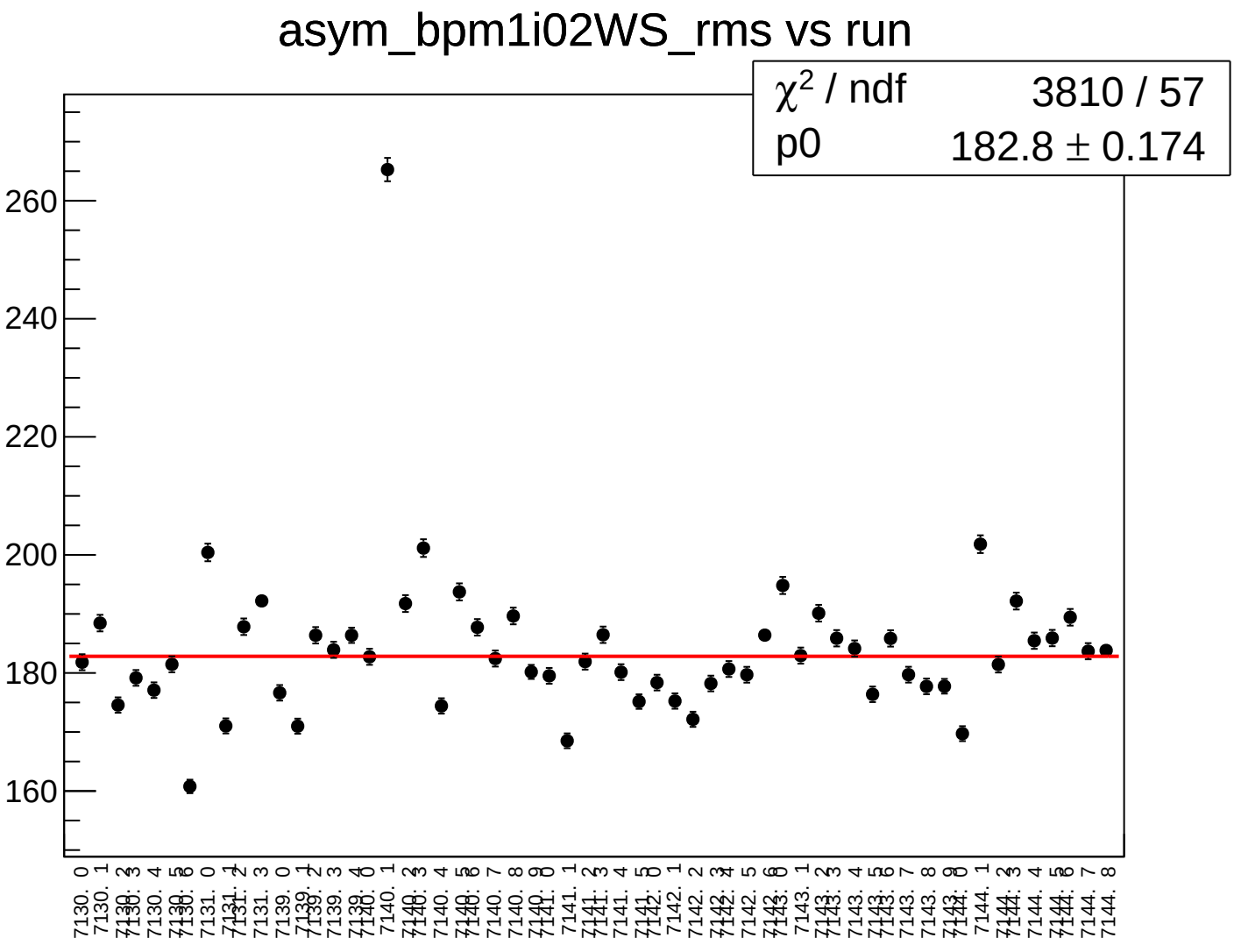

asym_bpm0i07WS_mean vs run
χ² / ndf 37.97 / 57
p0 −252.9 ± 323.5
pull
Entries 58
Mean 553.8
Std Dev 533.7

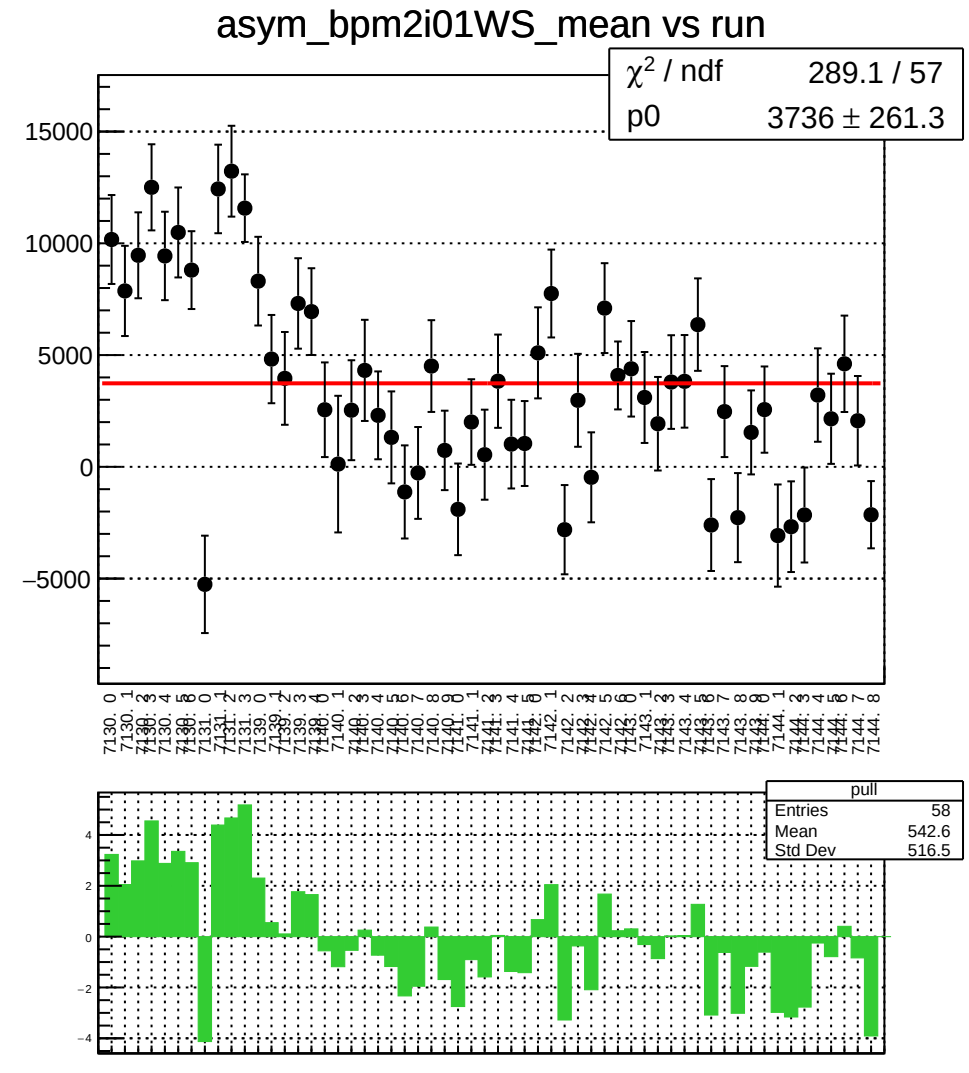

pull1D
Entries 58
Mean 0.006454
Std Dev 0.8091

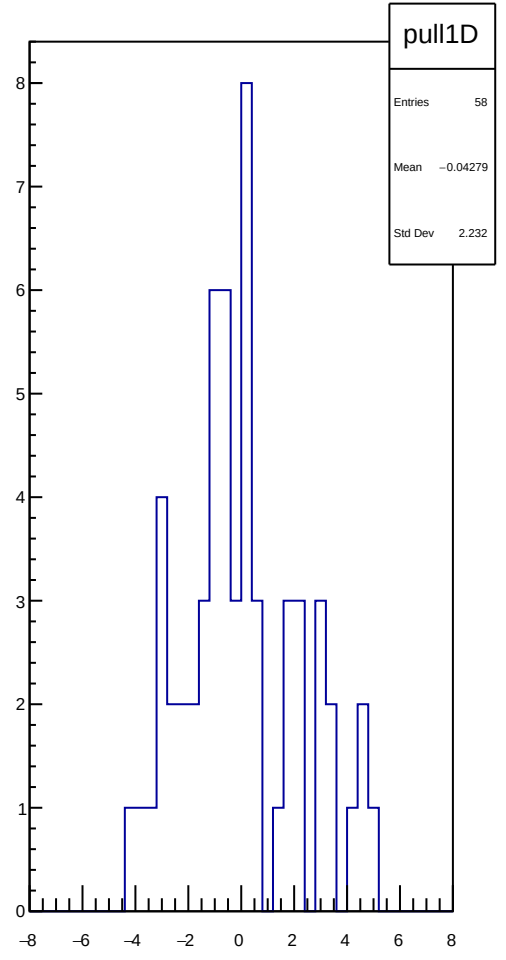

asym_bpm0i07WS_rms vs run
χ² / ndf 2416 / 57
p0 240.5 ± 0.2288
300
280
260
240
220

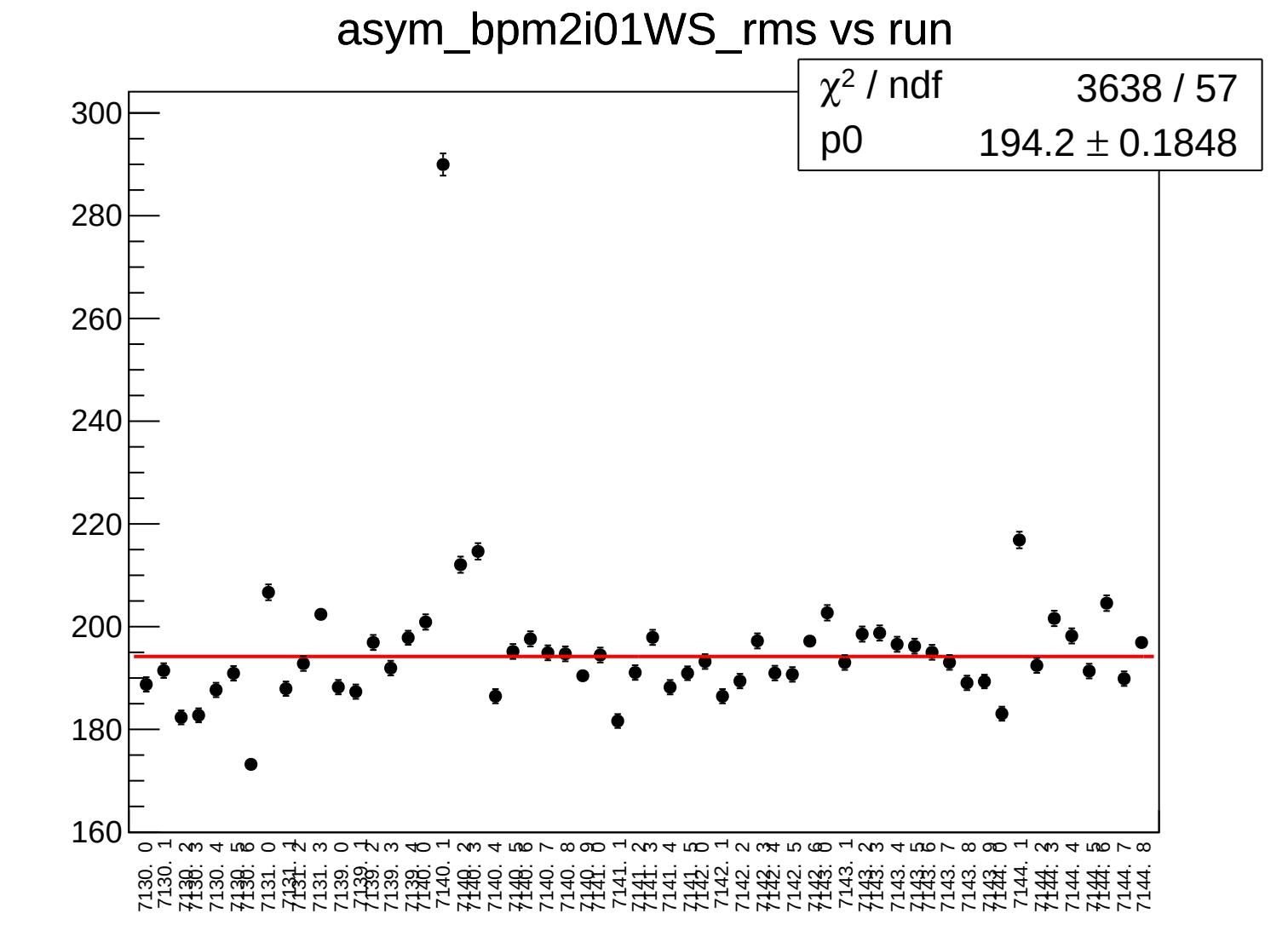

asym_bpm1i02WS_mean vs run
χ² / ndf 244.8 / 57
p0 3604 ± 246.1
15000
10000
5000
0
−5000
pull
Entries 58
Mean 567
Std Dev 539.9
4
2
0
−2
−4

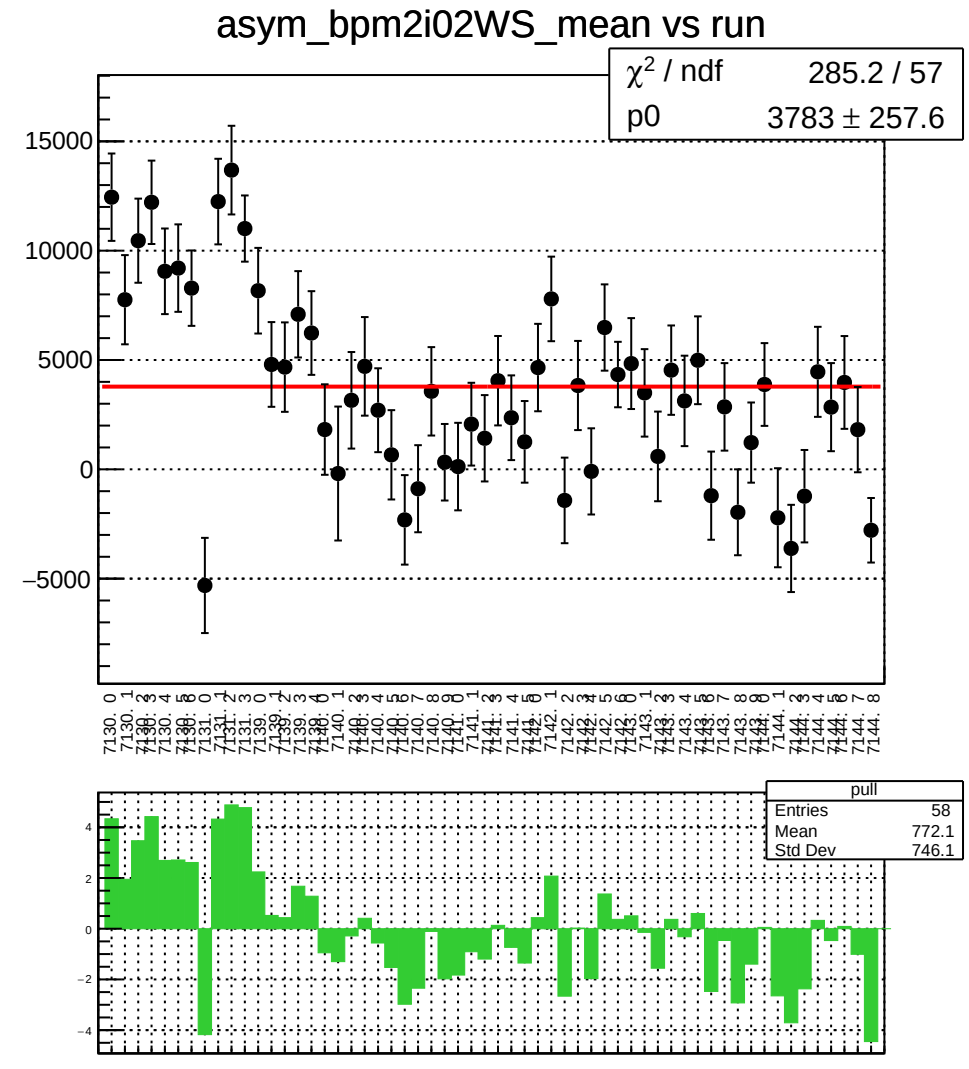

pull1D
Entries 58
Mean −0.03848
Std Dev 2.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

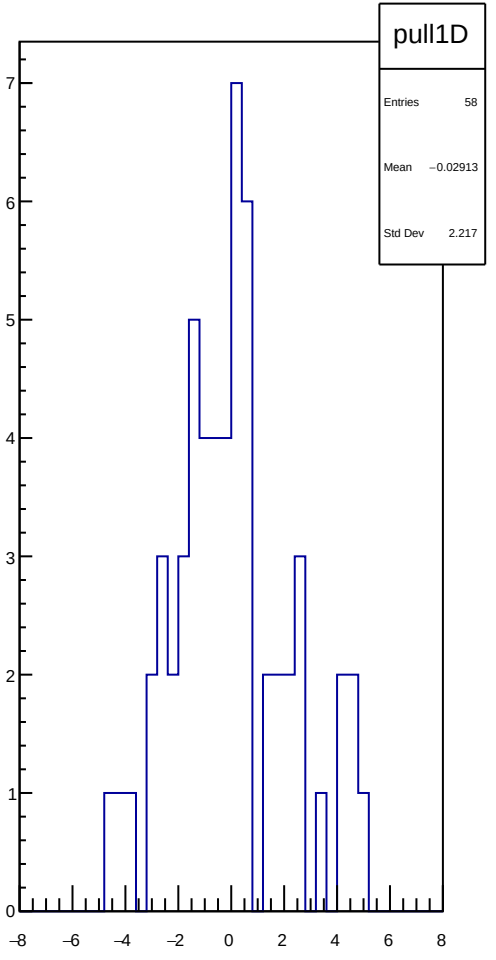

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3810 / 57
p0 182.8 ± 0.174
260
240
220
200
180
160

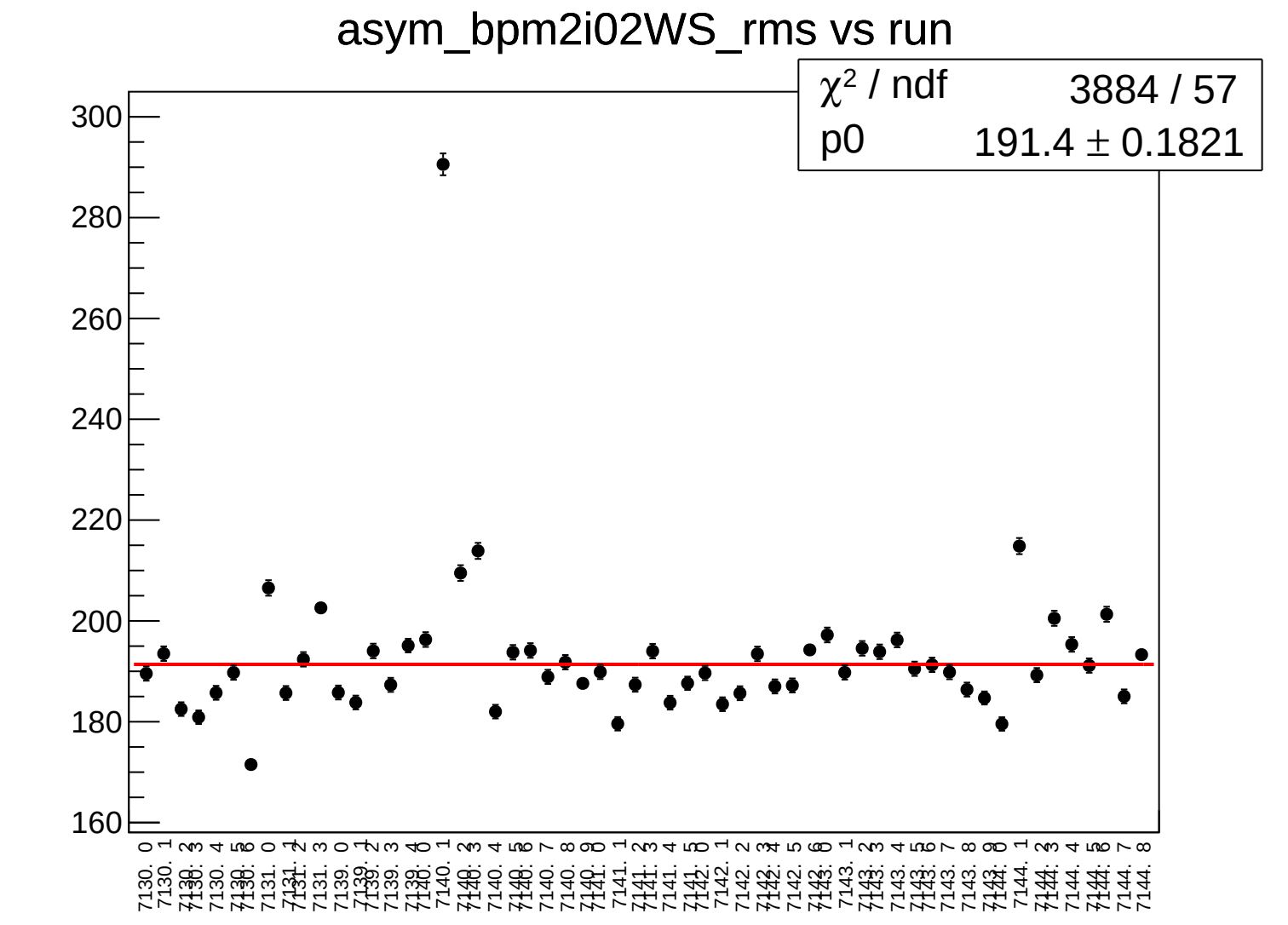

asym_bpm2i01WS_mean vs run
χ² / ndf 289.1 / 57
p0 3736 ± 261.3
15000
10000
5000
0
−5000
pull
Entries 58
Mean 542.6
Std Dev 516.5
4
2
0
−2
−4

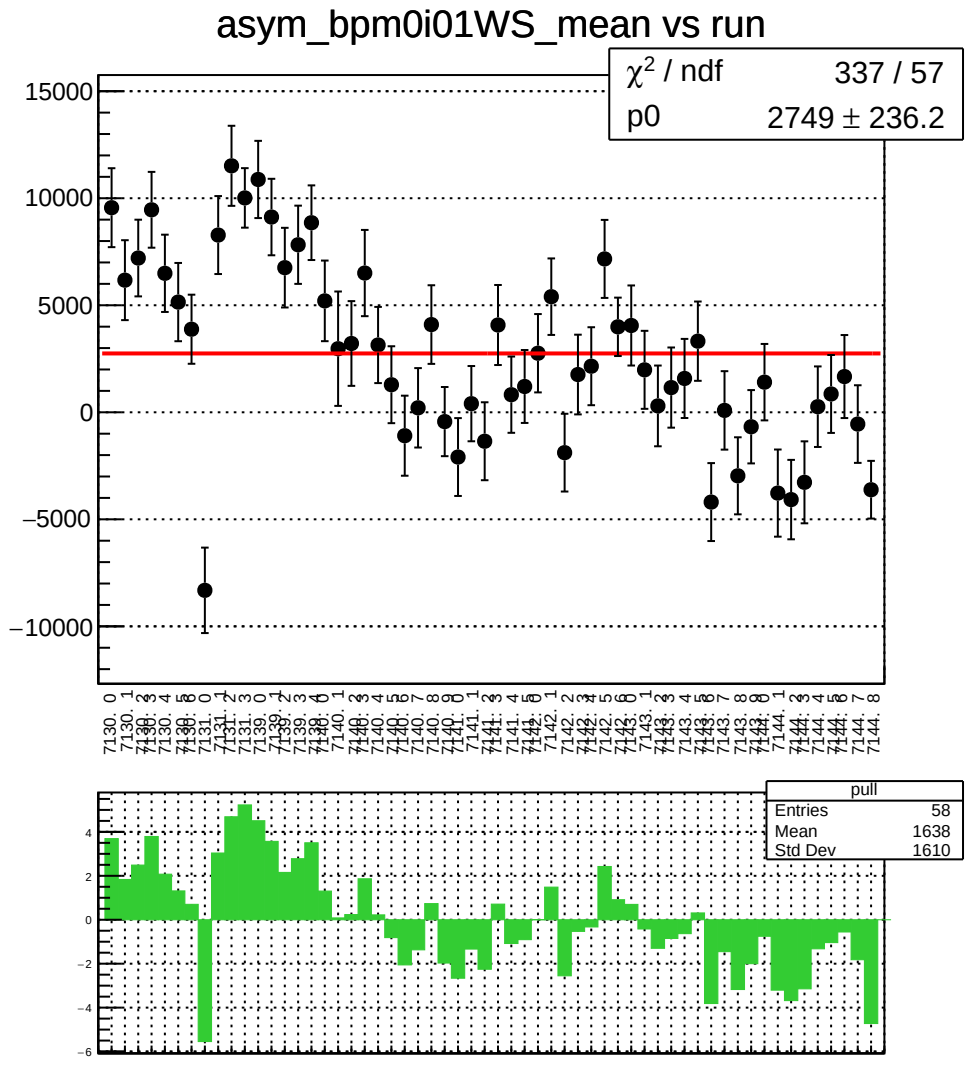

pull1D
Entries 58
Mean −0.04279
Std Dev 2.232
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

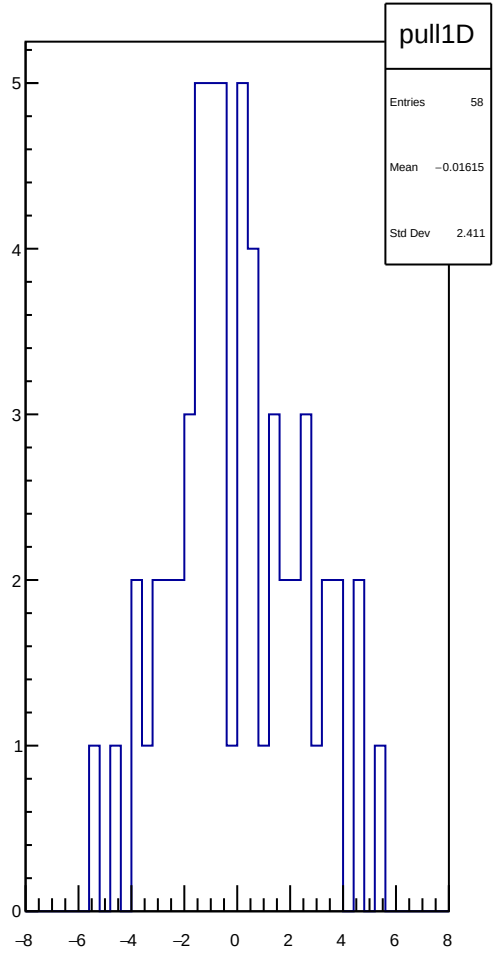

asym_bpm2i01WS_rms vs run
χ² / ndf 3638 / 57
p0 194.2 ± 0.1848
300
280
260
240
220
200
180
160

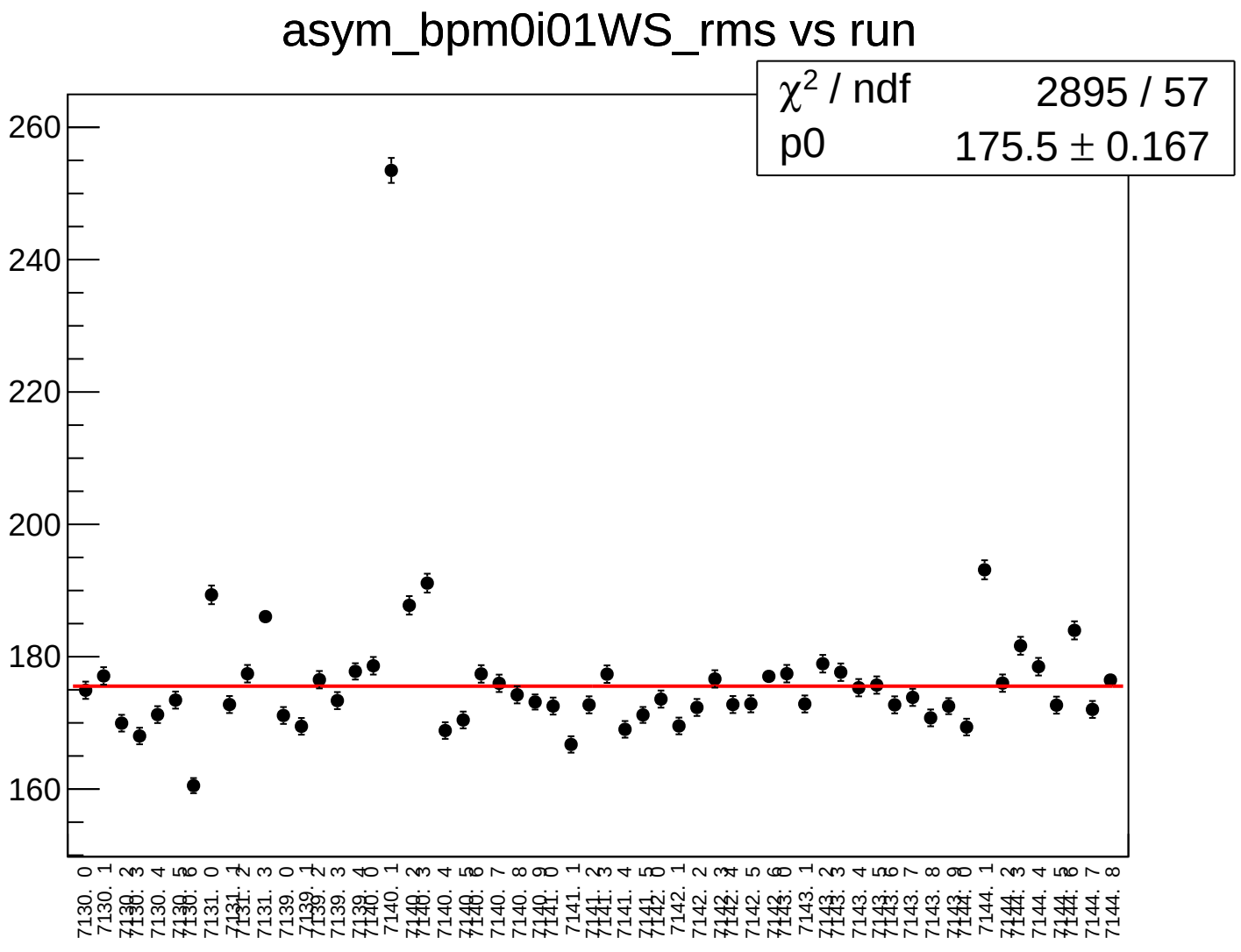

asym_bpm2i02WS_mean vs run
χ² / ndf 285.2 / 57
p0 3783 ± 257.6
15000
10000
5000
0
−5000
pull
Entries 58
Mean 772.1
Std Dev 746.1
4
2
0
−2
−4

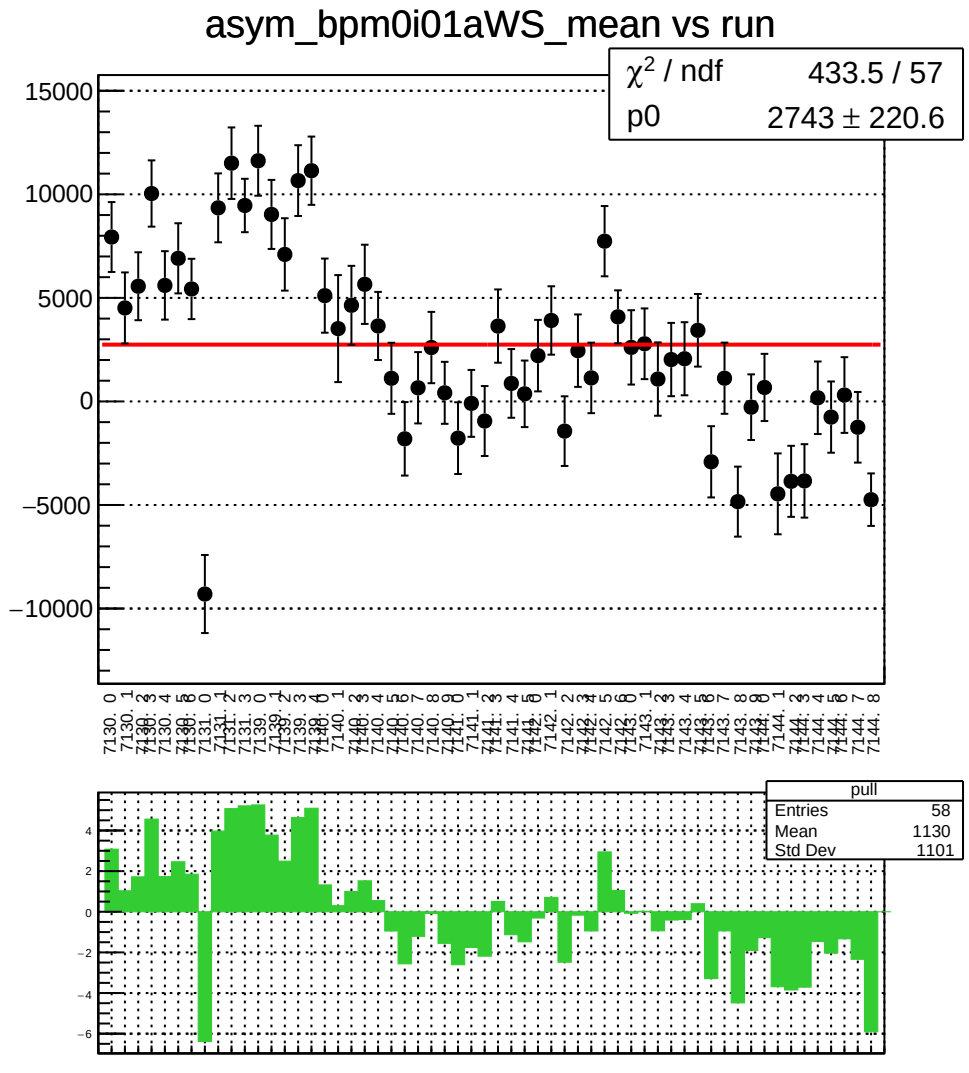

pull1D
Entries 58
Mean −0.02913
Std Dev 2.217
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

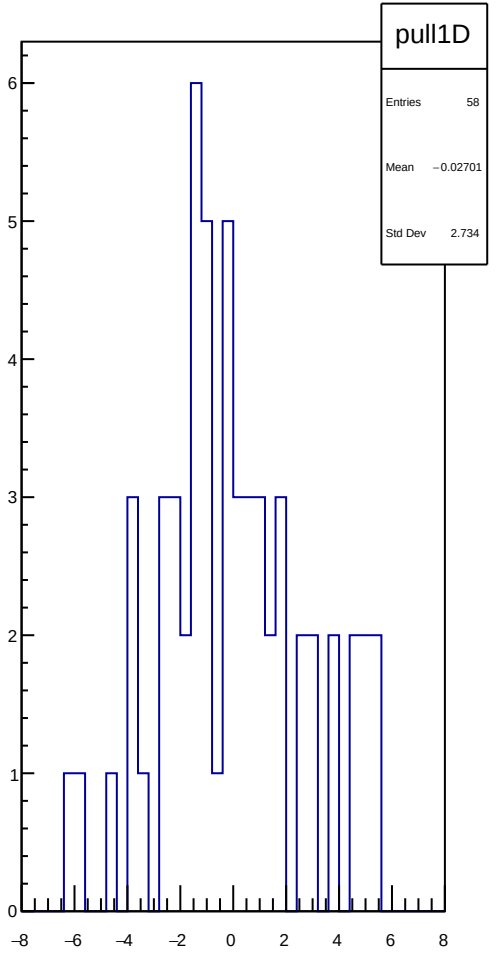

asym_bpm2i02WS_rms vs run
χ² / ndf 3884 / 57
p0 191.4 ± 0.1821
300
280
260
240
220
200
180
160

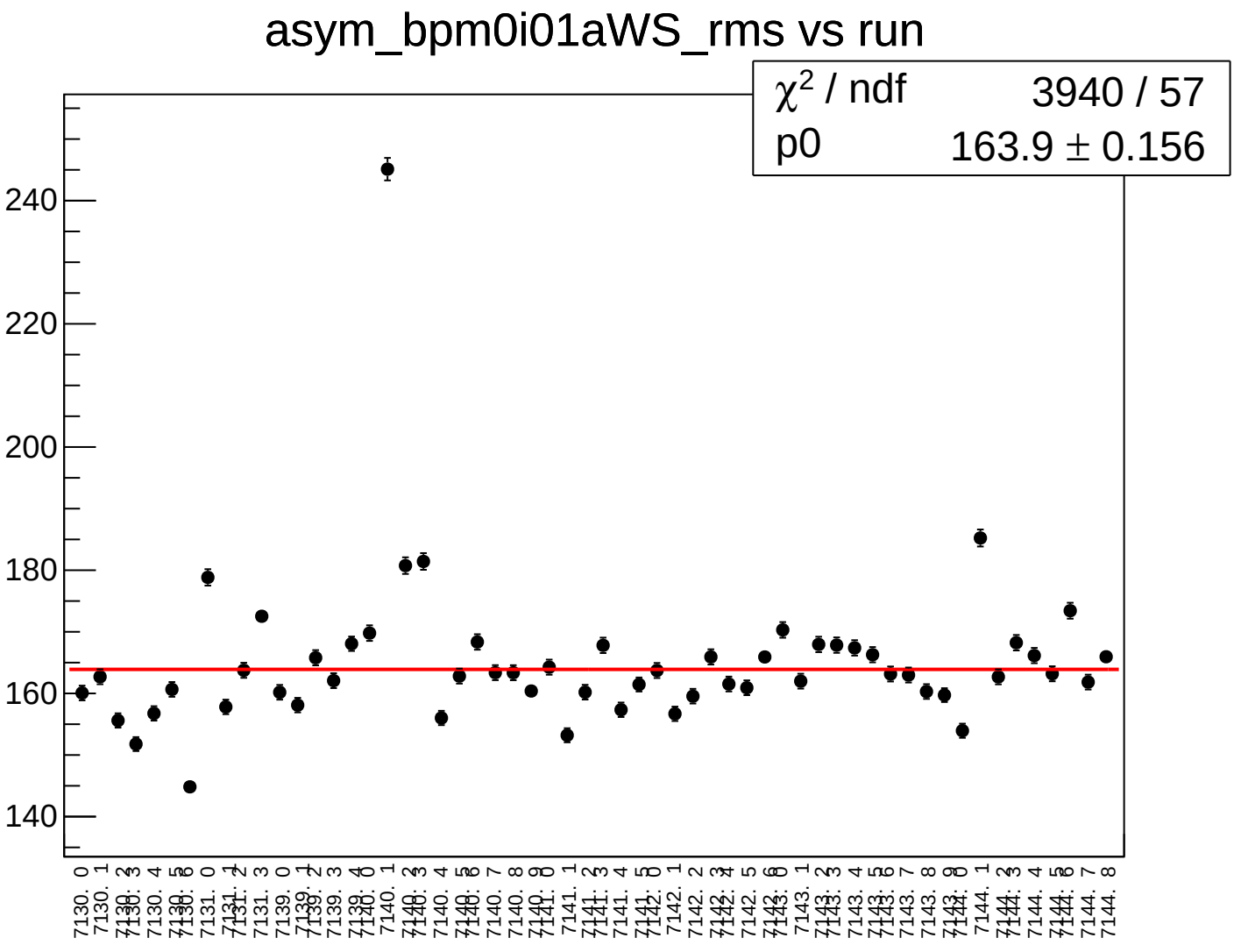

asym_bpm0i01WS_mean vs run
χ² / ndf 337 / 57
p0 2749 ± 236.2
pull
Entries 58
Mean 1638
Std Dev 1610

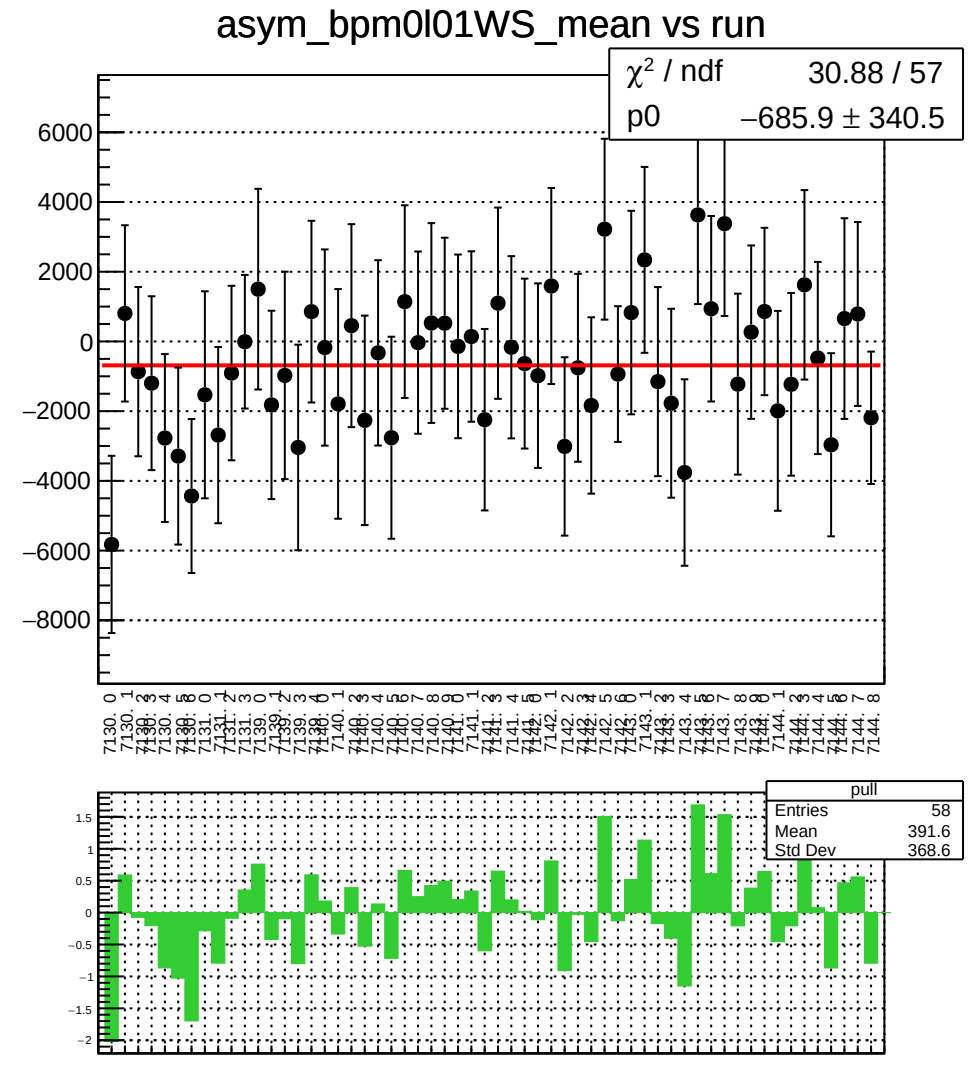

pull1D
Entries 58
Mean −0.01615
Std Dev 2.411

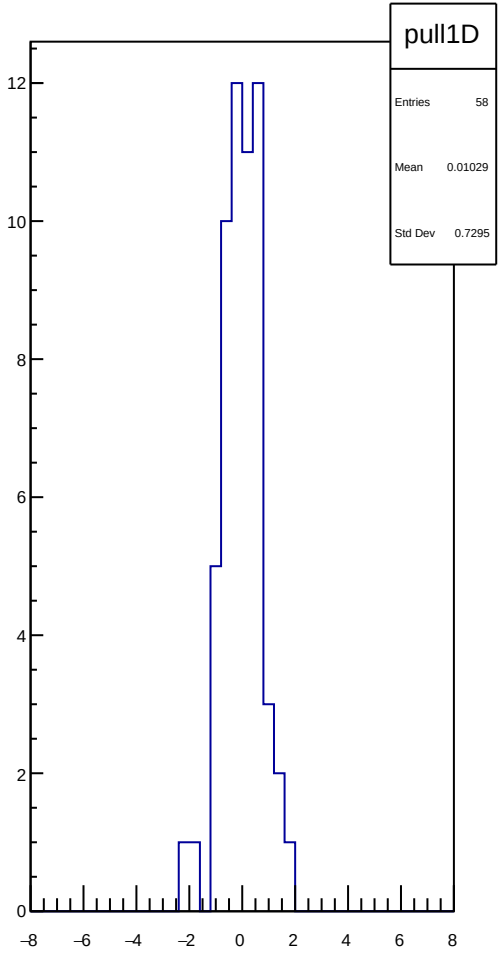

asym_bpm0i01WS_rms vs run
χ² / ndf 2895 / 57
p0 175.5 ± 0.167
260
240
220
200
180
160

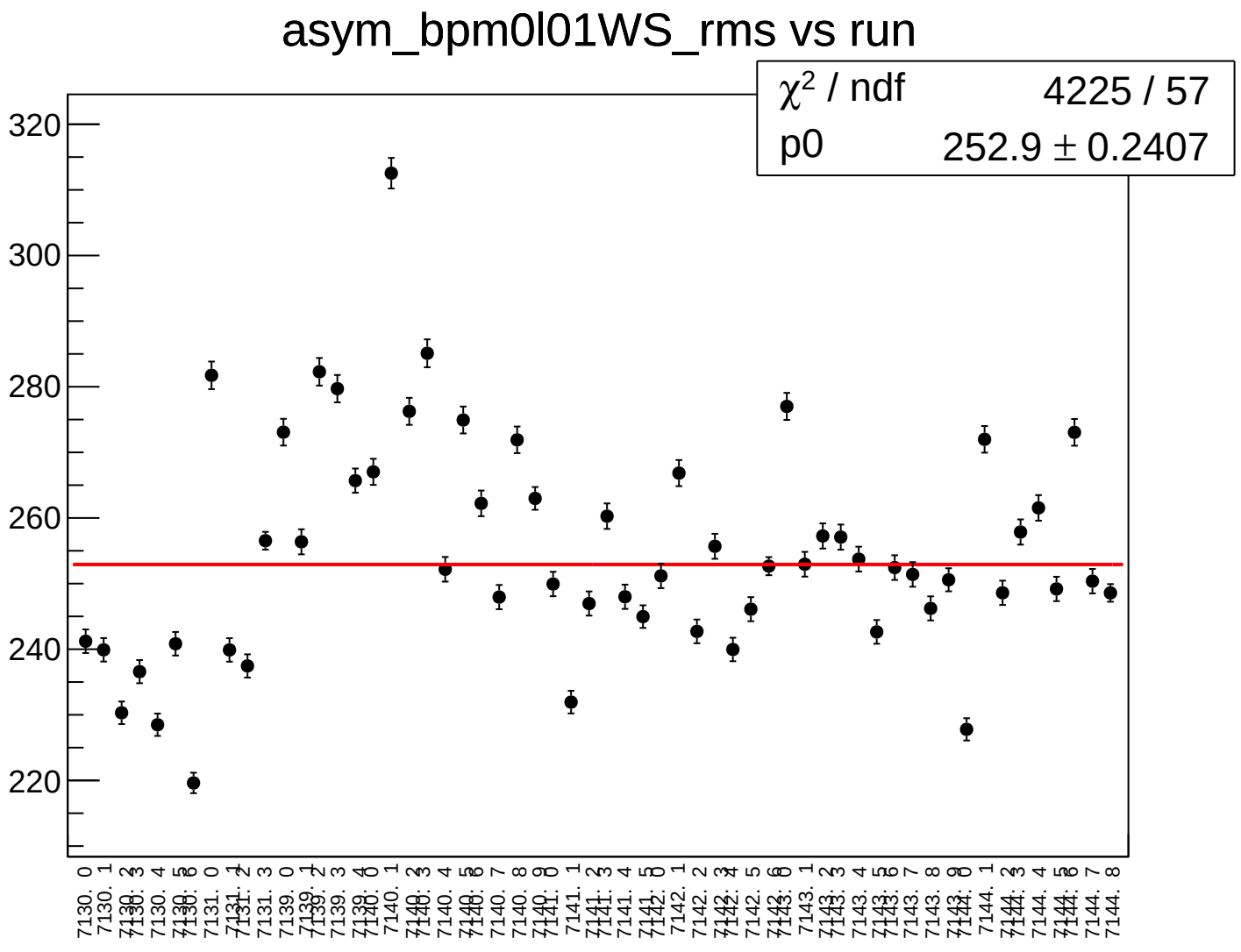

asym_bpm0i01aWS_mean vs run
χ² / ndf 433.5 / 57
p0 2743 ± 220.6
pull
Entries 58
Mean 1130
Std Dev 1101

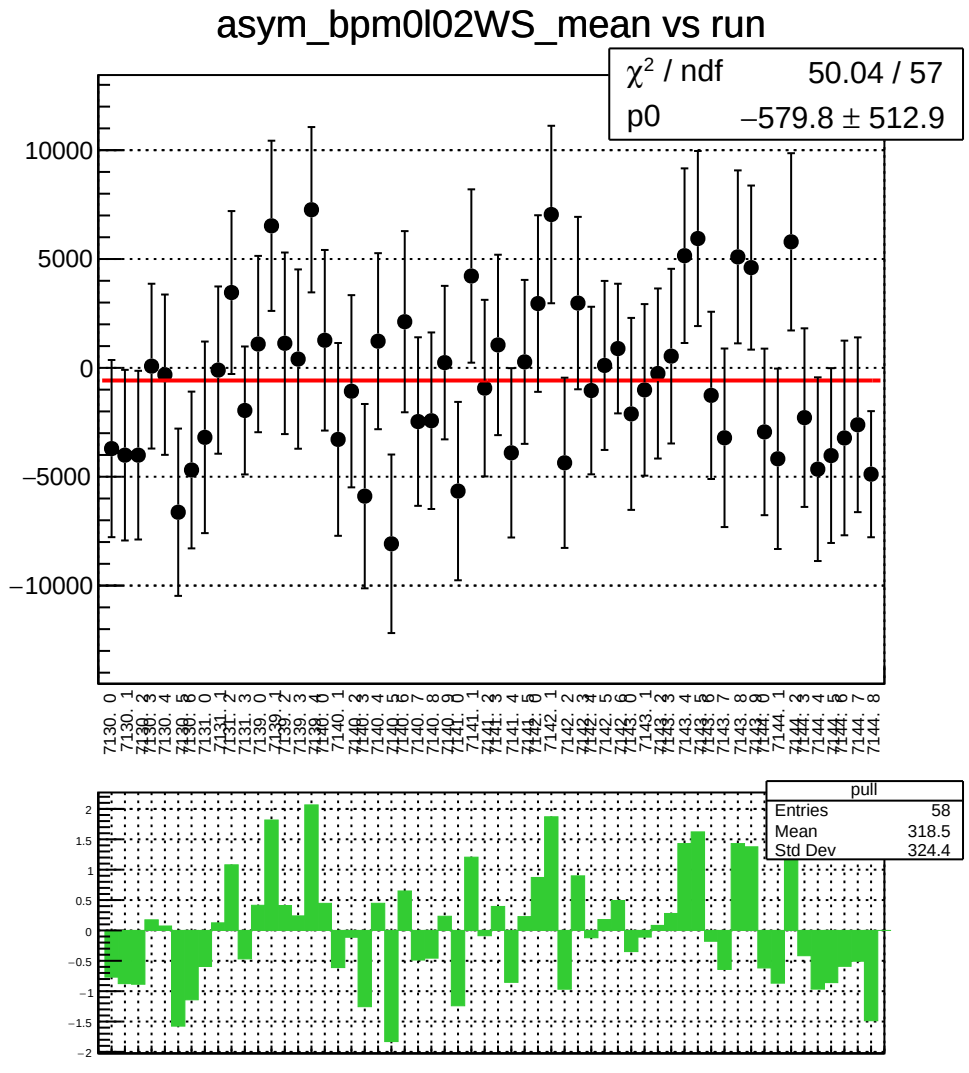

pull1D
Entries 58
Mean −0.02701
Std Dev 2.734

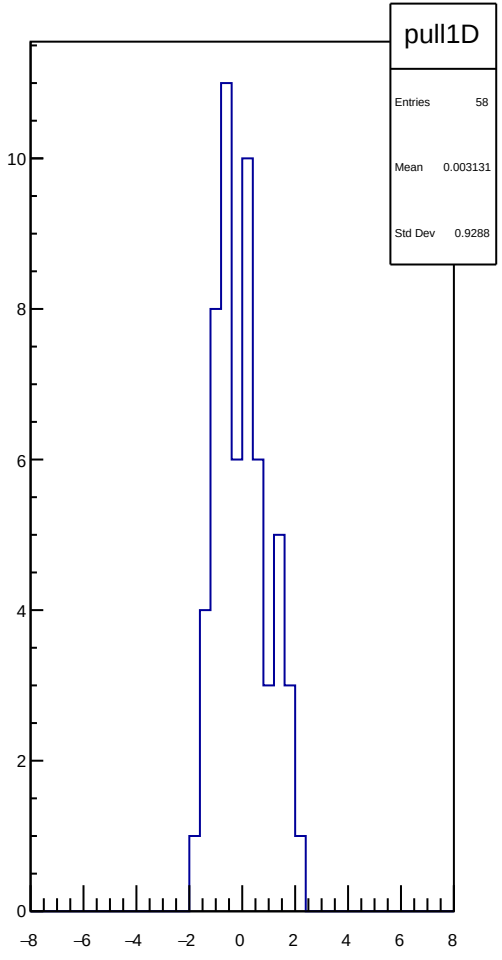

asym_bpm0i01aWS_rms vs run
χ² / ndf 3940 / 57
p0 163.9 ± 0.156
240
220
200
180
160
140

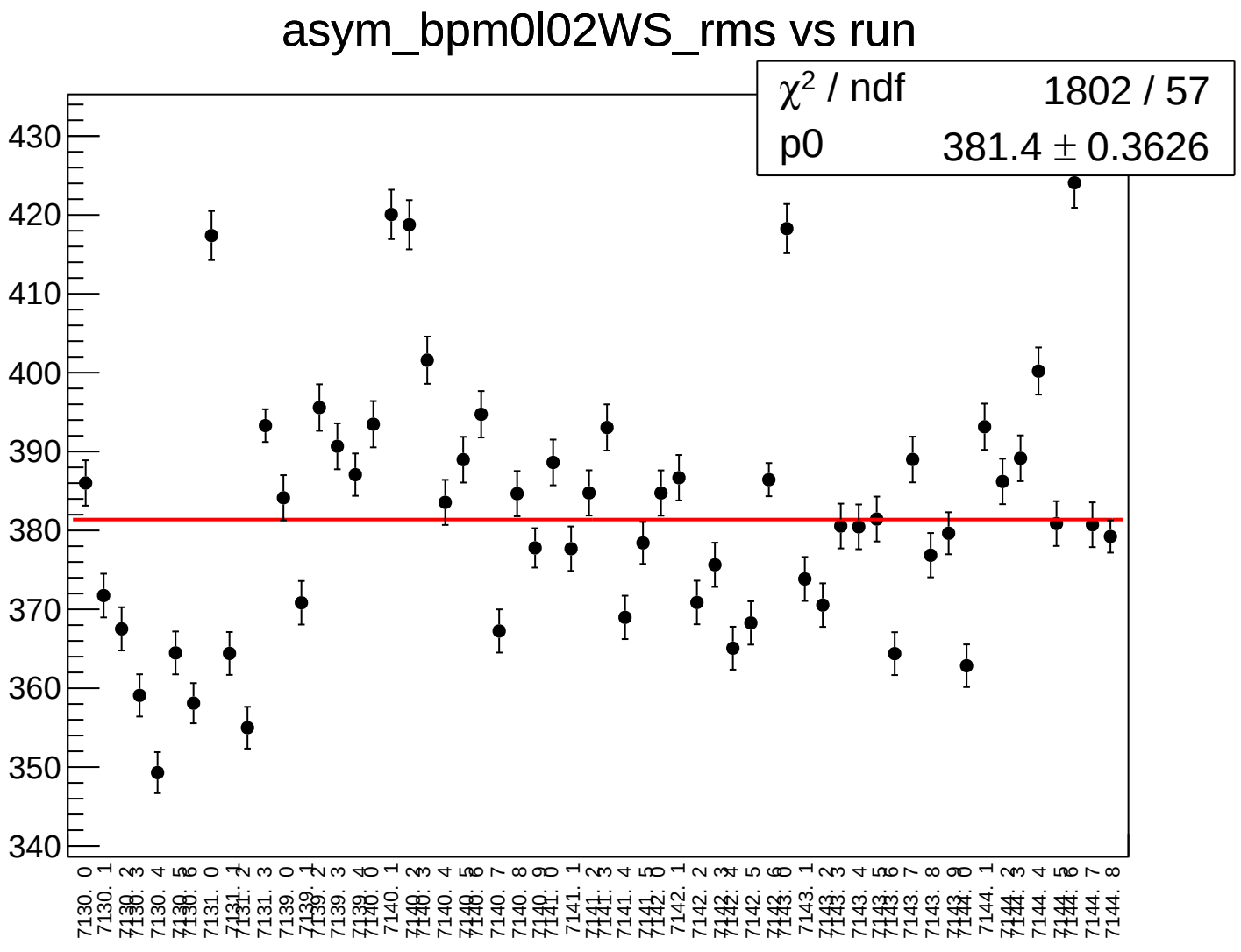

asym_bpm0l01WS_mean vs run
χ² / ndf 30.88 / 57
p0 −685.9 ± 340.5
6000
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 58
Mean 391.6
Std Dev 368.6
1.5
1
0.5
0
−0.5
−1
−1.5
−2

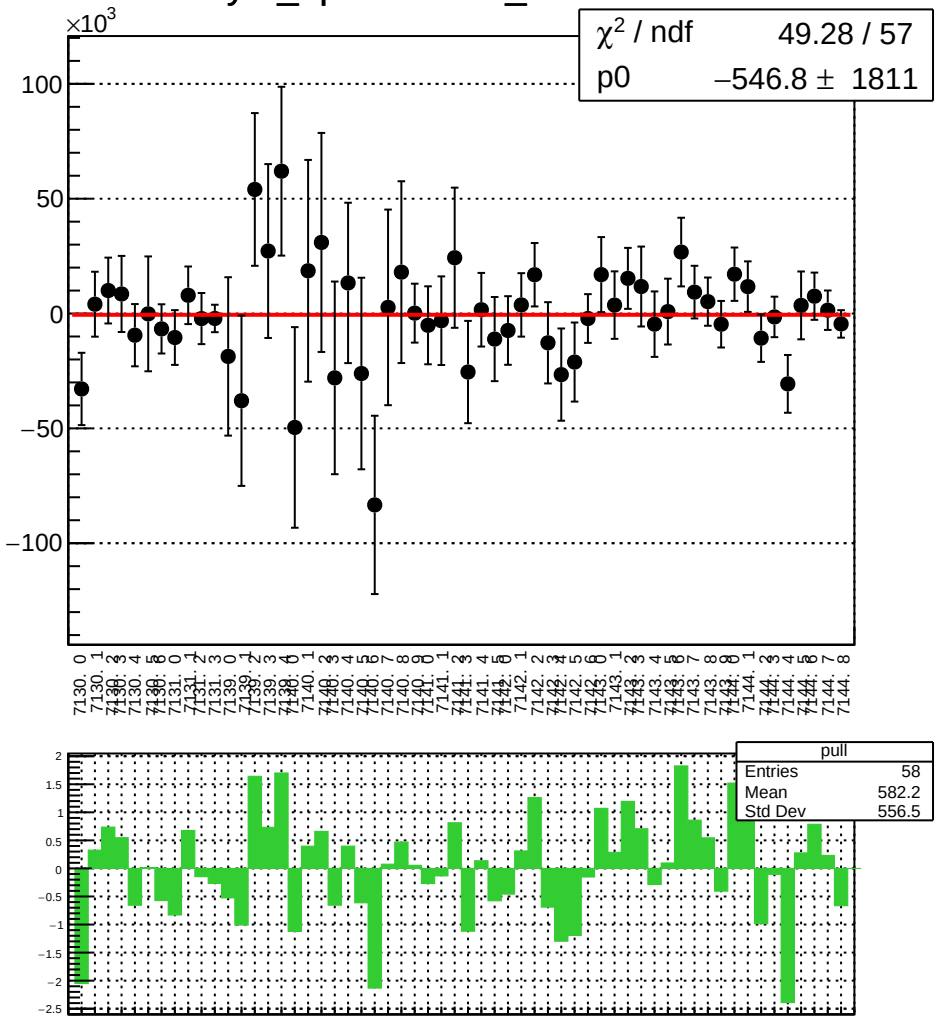

pull1D
Entries 58
Mean 0.01029
Std Dev 0.7295
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

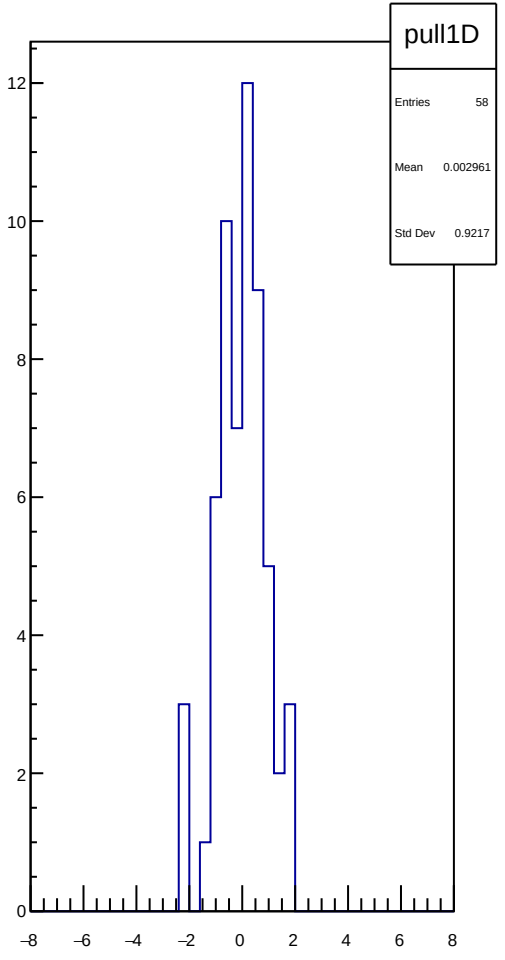

asym_bpm0l01WS_rms vs run
χ² / ndf 4225 / 57
p0 252.9 ± 0.2407
320
300
280
260
240
220

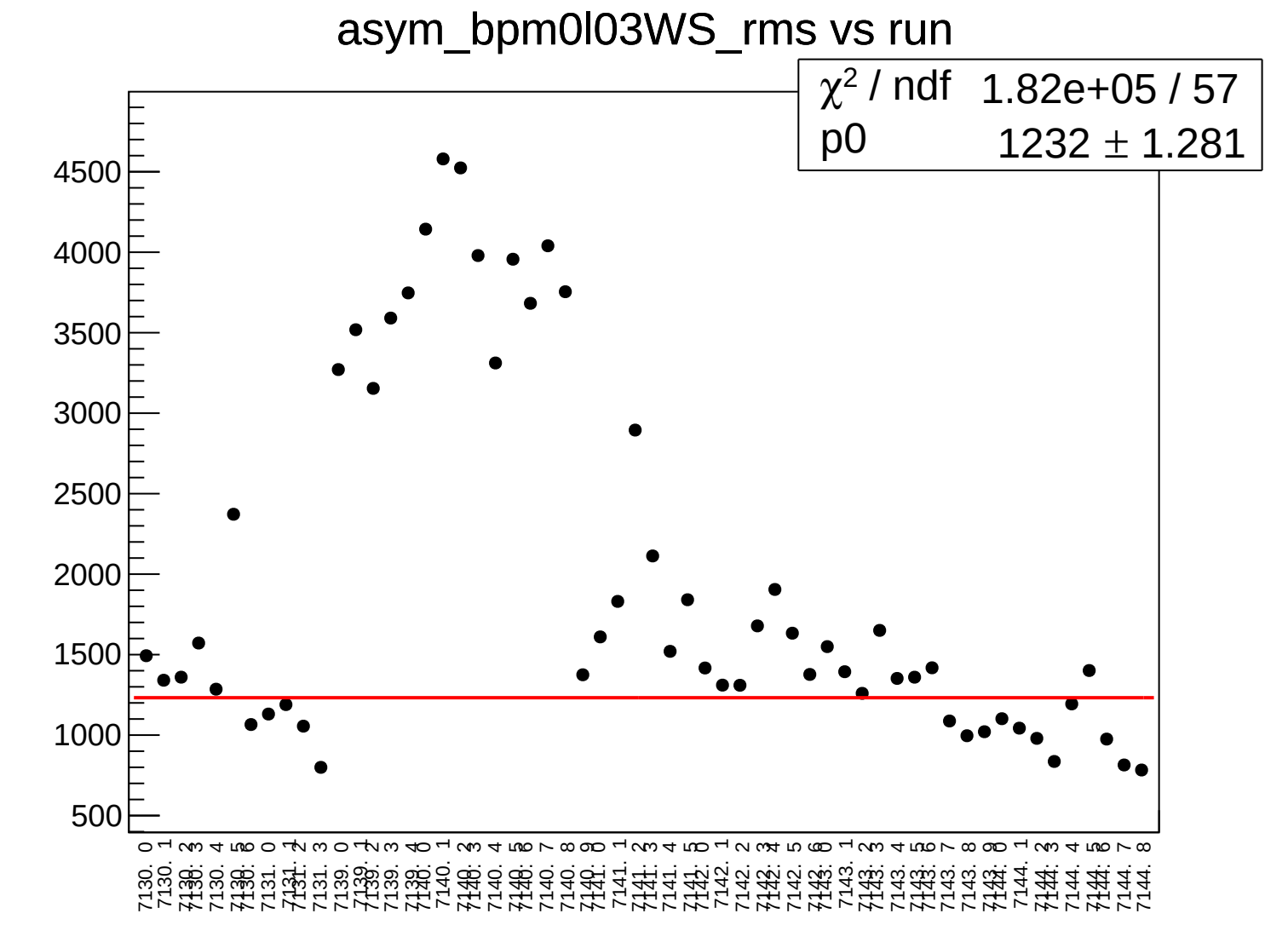

asym_bpm0l02WS_mean vs run
χ² / ndf 50.04 / 57
p0 −579.8 ± 512.9
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 318.5
Std Dev 324.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

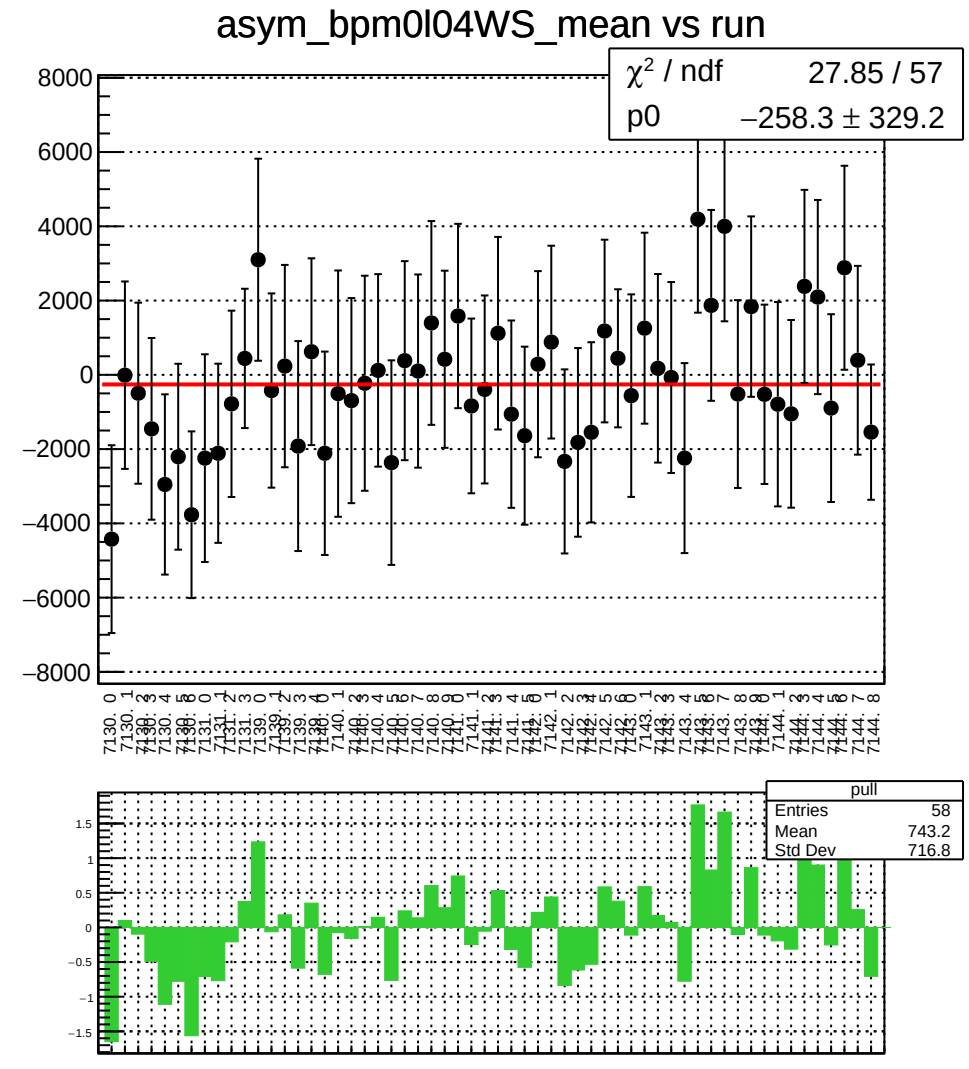

pull1D
Entries 58
Mean 0.003131
Std Dev 0.9288
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

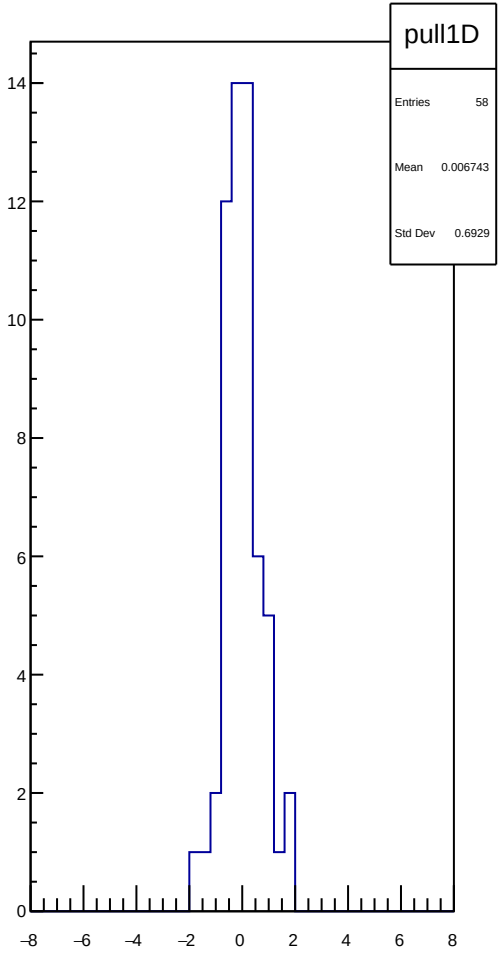

asym_bpm0l02WS_rms vs run
χ² / ndf 1802 / 57
p0 381.4 ± 0.3626
430
420
410
400
390
380
370
360
350
340

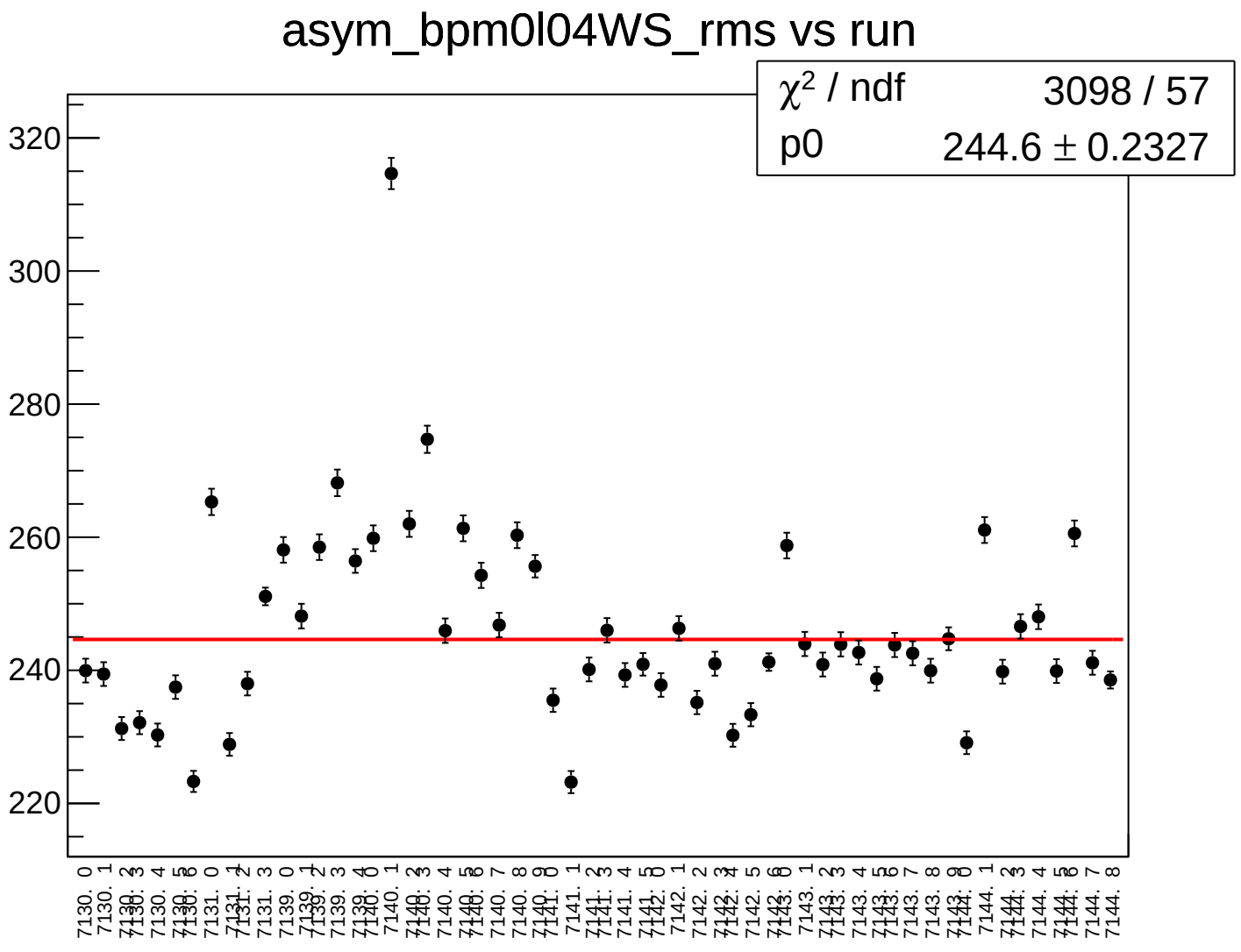

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 49.28 / 57
p0 −546.8 ± 1811
pull
Entries 58
Mean 582.2
Std Dev 556.5

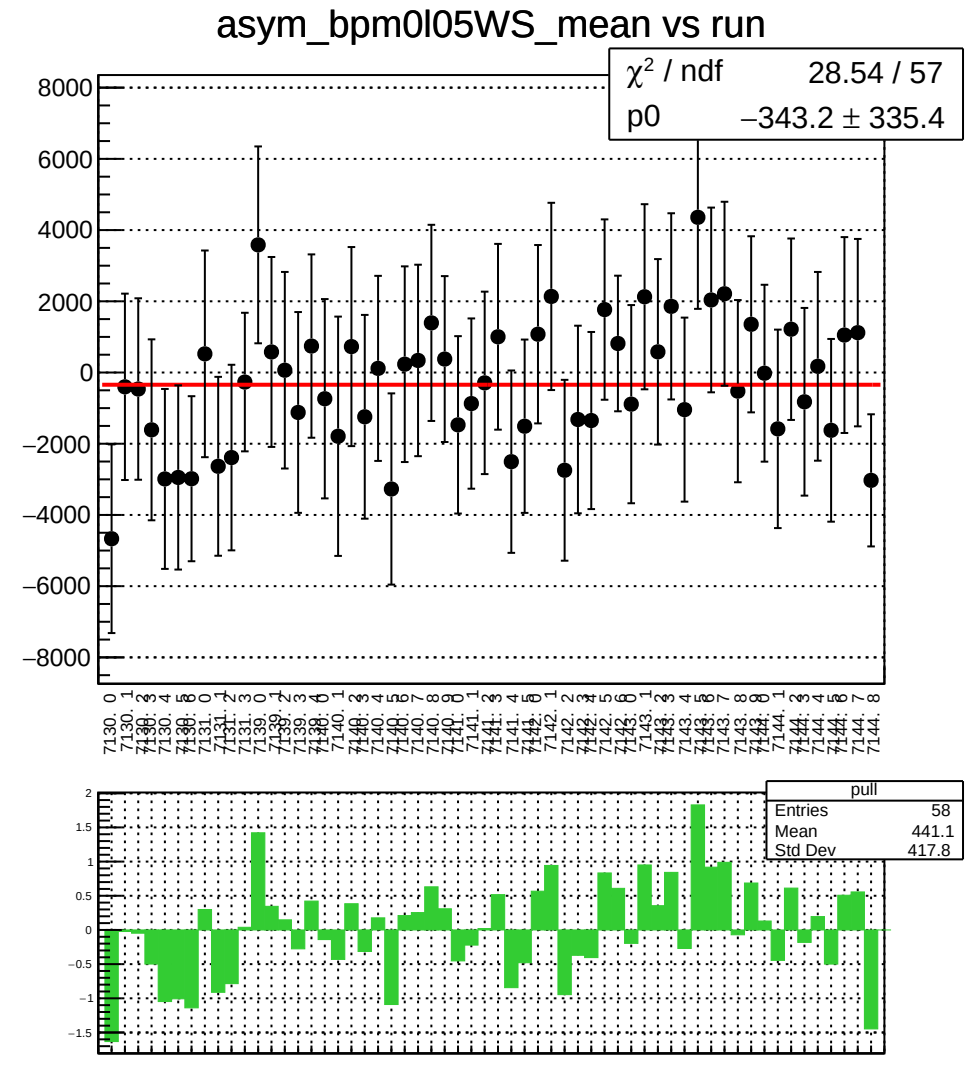

pull1D
Entries 58
Mean 0.002961
Std Dev 0.9217

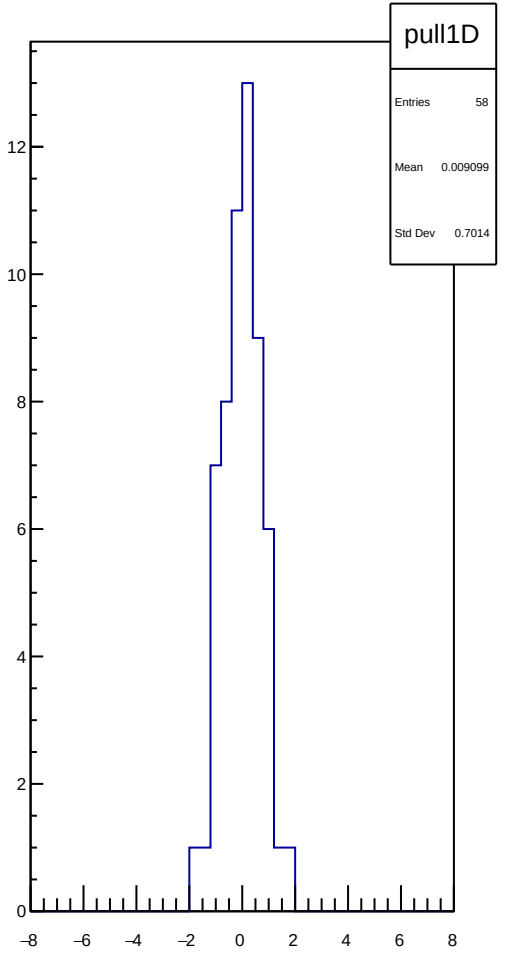

asym_bpm0l03WS_rms vs run
χ² / ndf 1.82e+05 / 57
p0 1232 ± 1.281
4500
4000
3500
3000
2500
2000
1500
1000
500

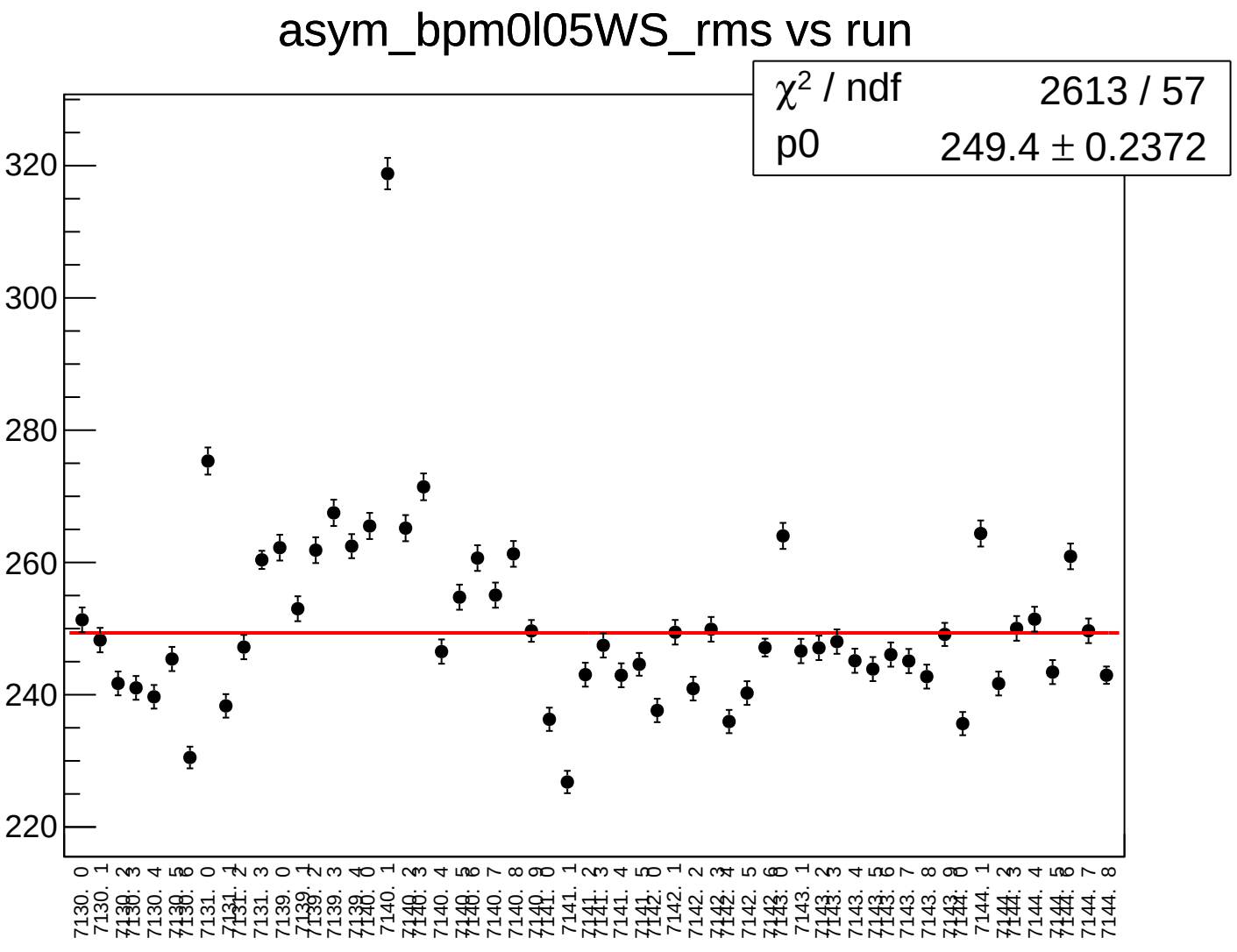

asym_bpm0l04WS_mean vs run
χ² / ndf 27.85 / 57
p0 −258.3 ± 329.2
pull
Entries 58
Mean 743.2
Std Dev 716.8

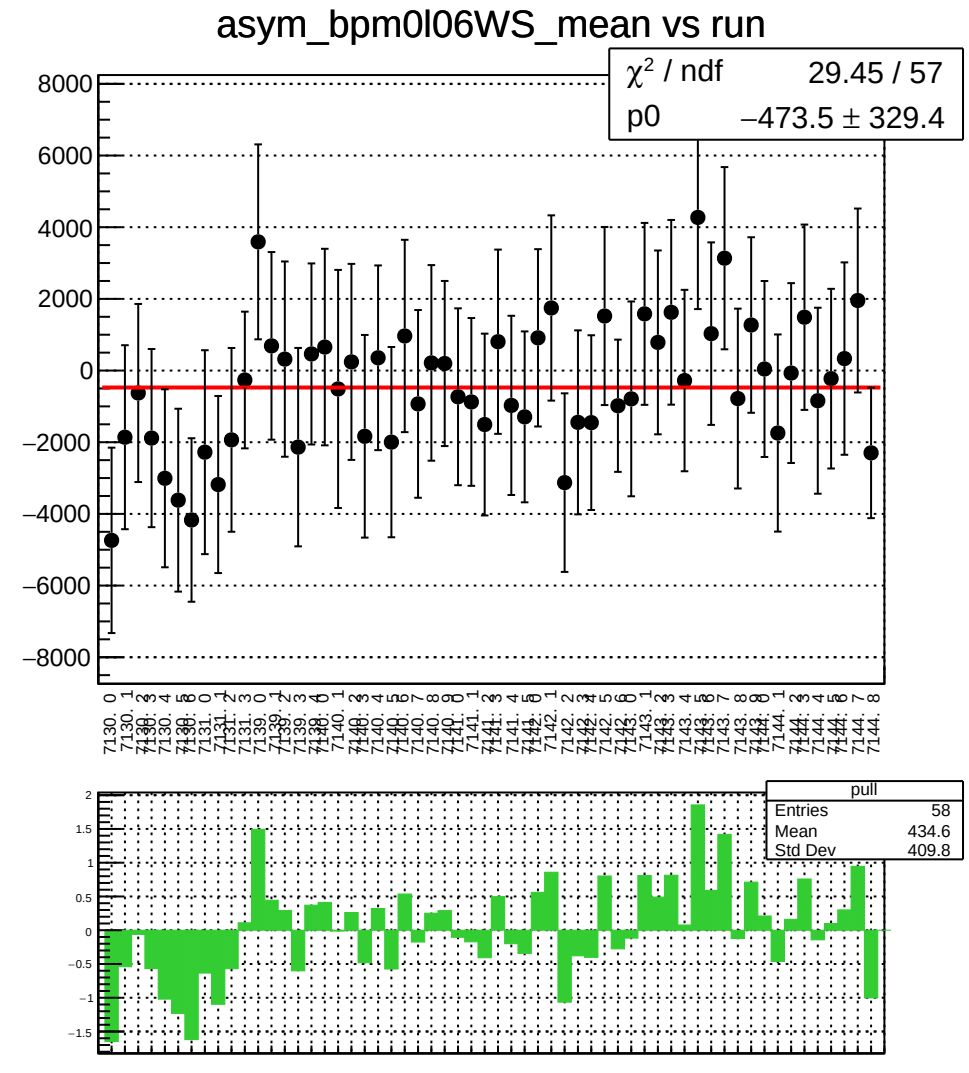

pull1D
Entries 58
Mean 0.006743
Std Dev 0.6929

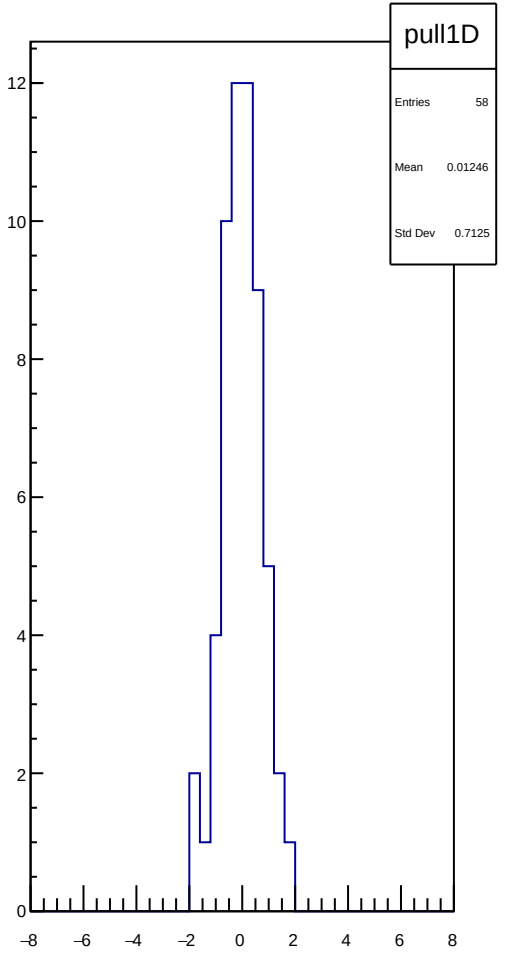

asym_bpm0l04WS_rms vs run
χ² / ndf 3098 / 57
p0 244.6 ± 0.2327
320
300
280
260
240
220

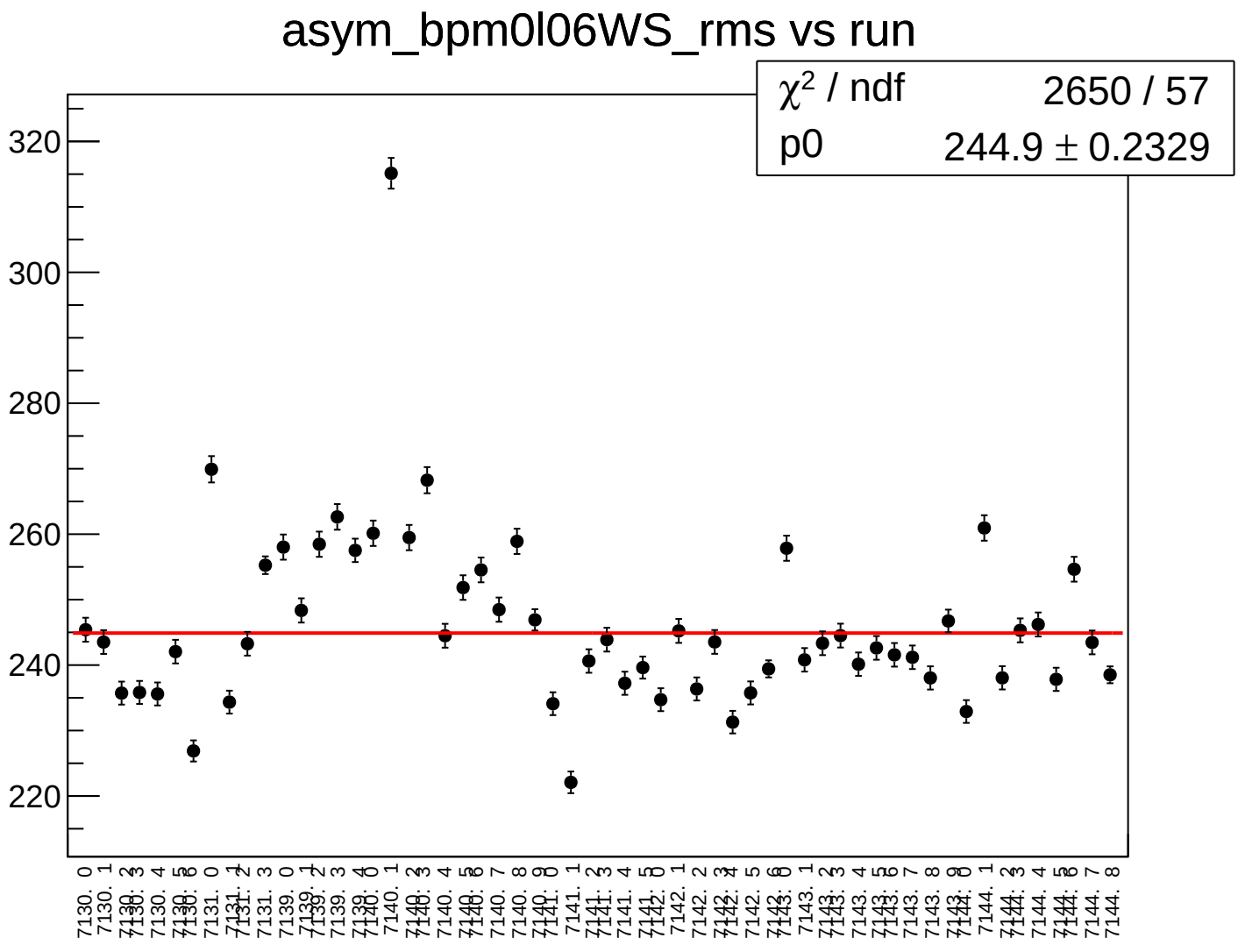

asym_bpm0l05WS_mean vs run
χ² / ndf 28.54 / 57
p0 −343.2 ± 335.4
pull
Entries 58
Mean 441.1
Std Dev 417.8

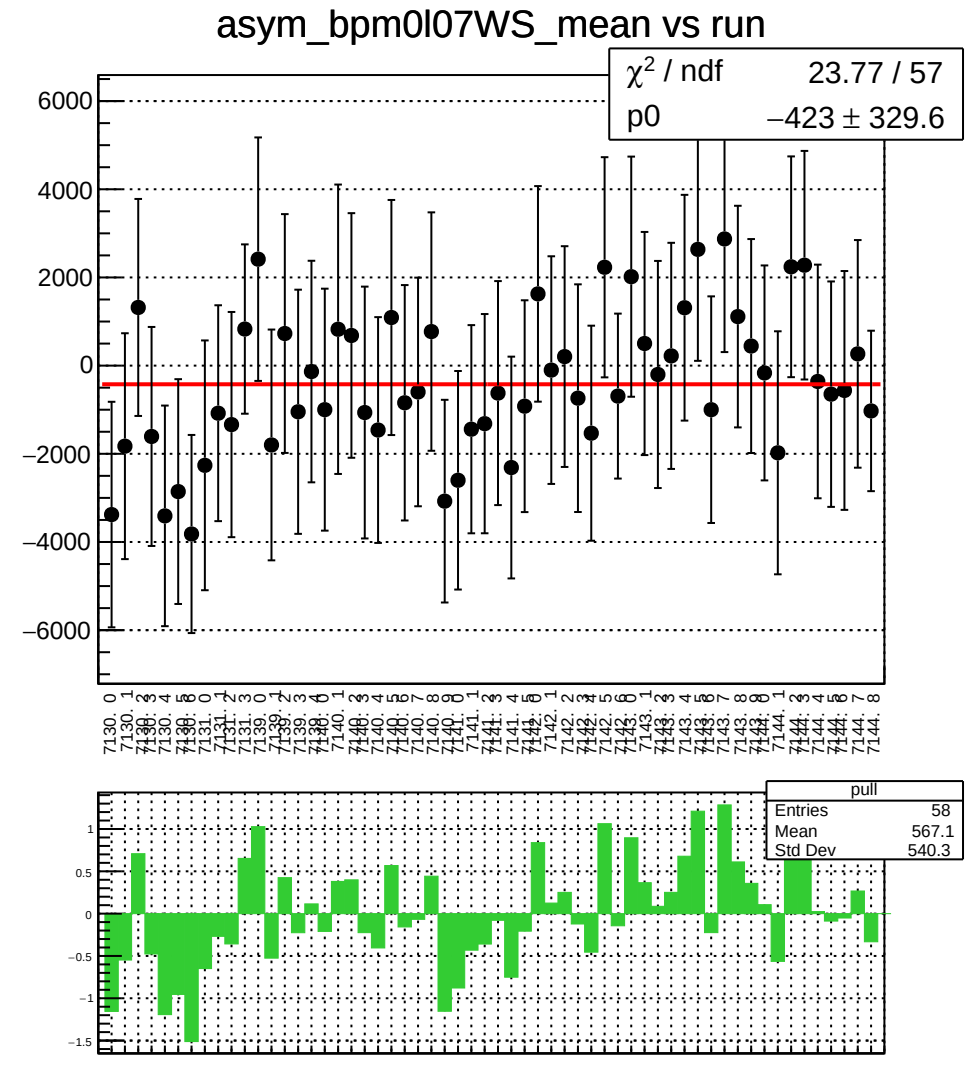

pull1D
Entries 58
Mean 0.009099
Std Dev 0.7014

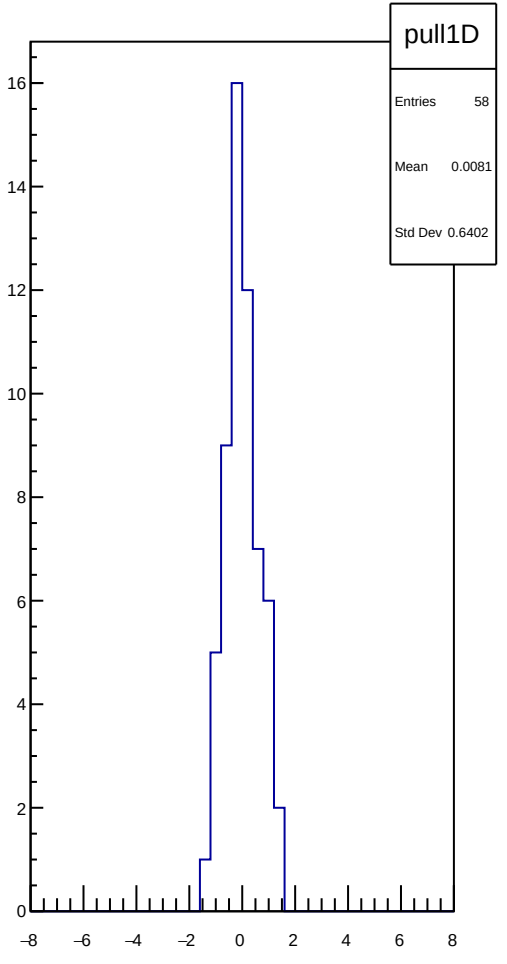

asym_bpm0l05WS_rms vs run
χ² / ndf 2613 / 57
p0 249.4 ± 0.2372
320
300
280
260
240
220

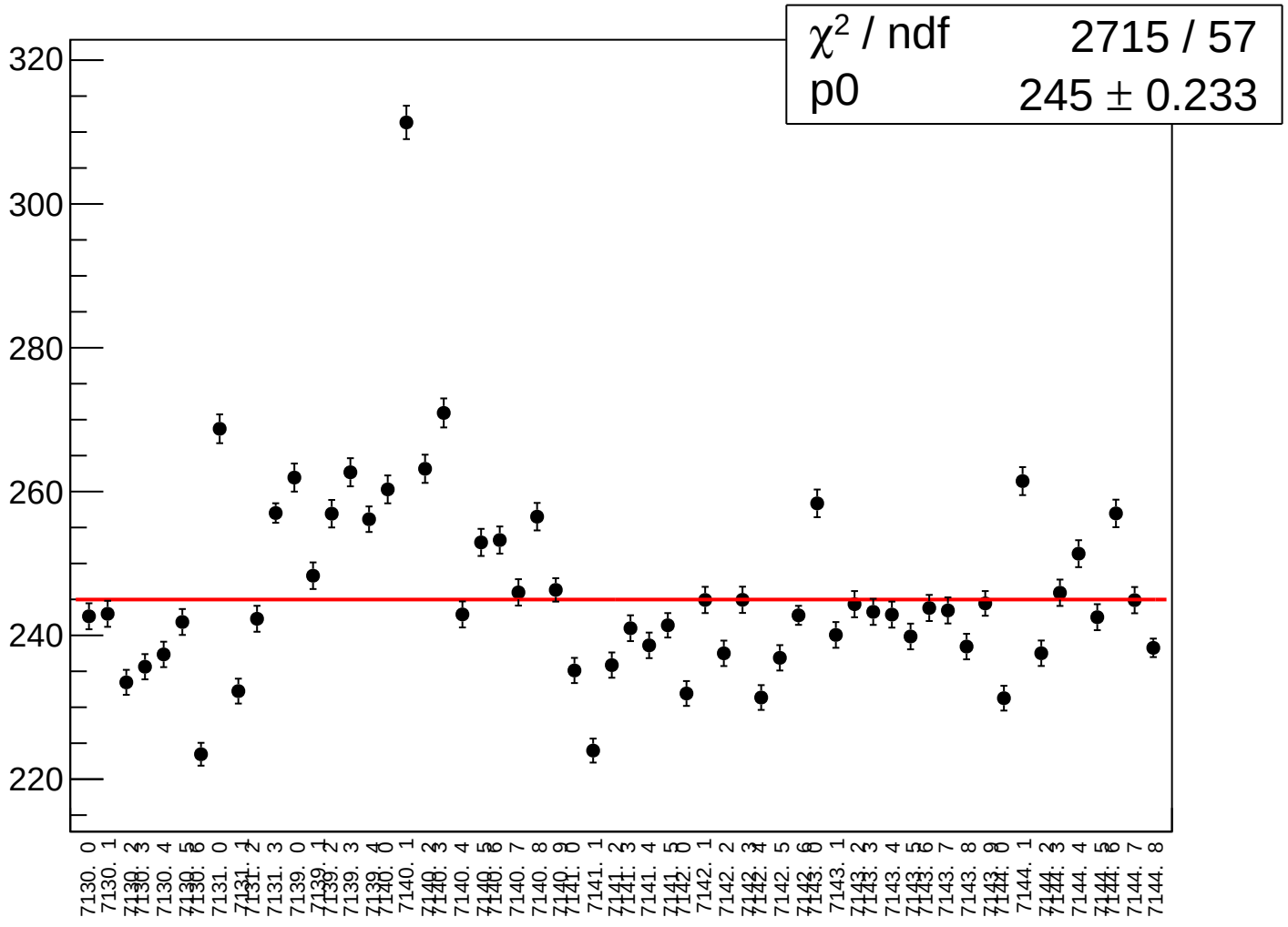

asym_bpm0l06WS_mean vs run
χ² / ndf 29.45 / 57
p0 −473.5 ± 329.4
pull
Entries 58
Mean 434.6
Std Dev 409.8

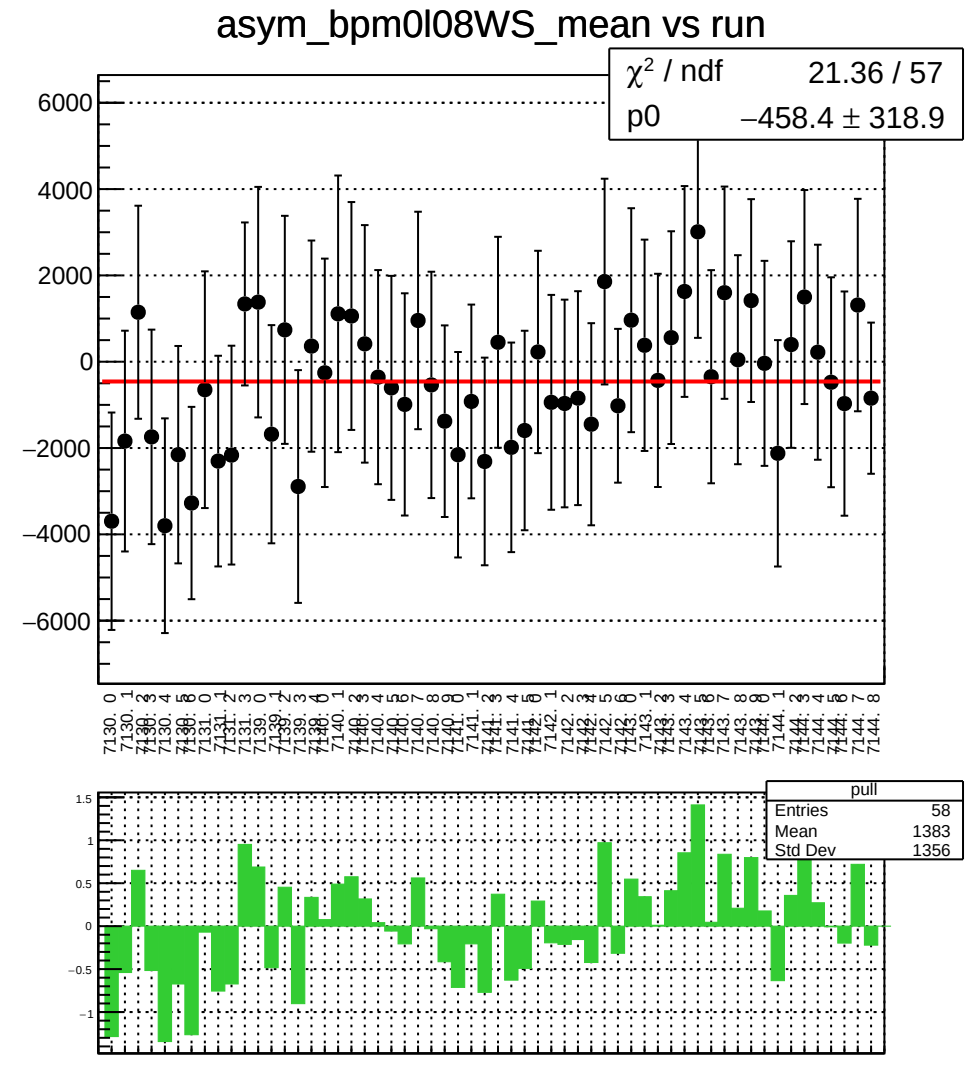

pull1D
Entries 58
Mean 0.01246
Std Dev 0.7125

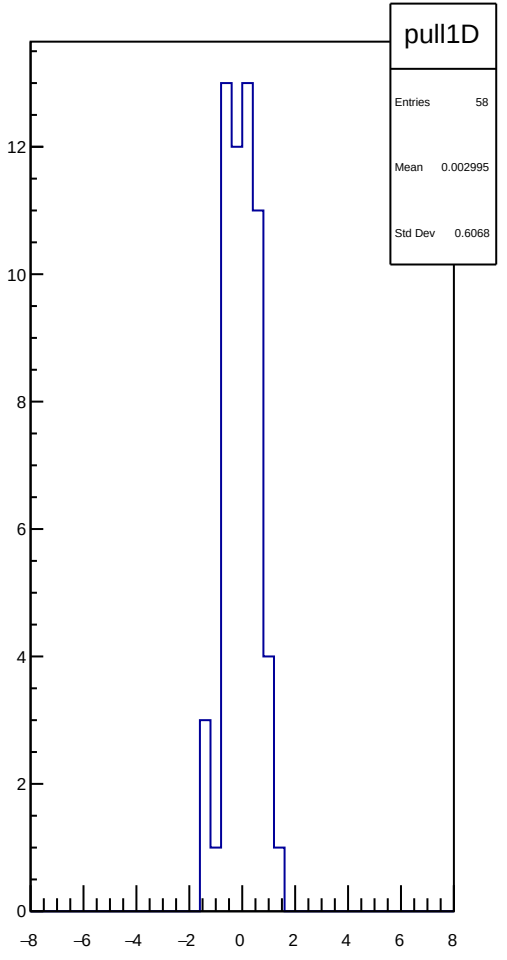

asym_bpm0l06WS_rms vs run
χ² / ndf 2650 / 57
p0 244.9 ± 0.2329
320
300
280
260
240
220

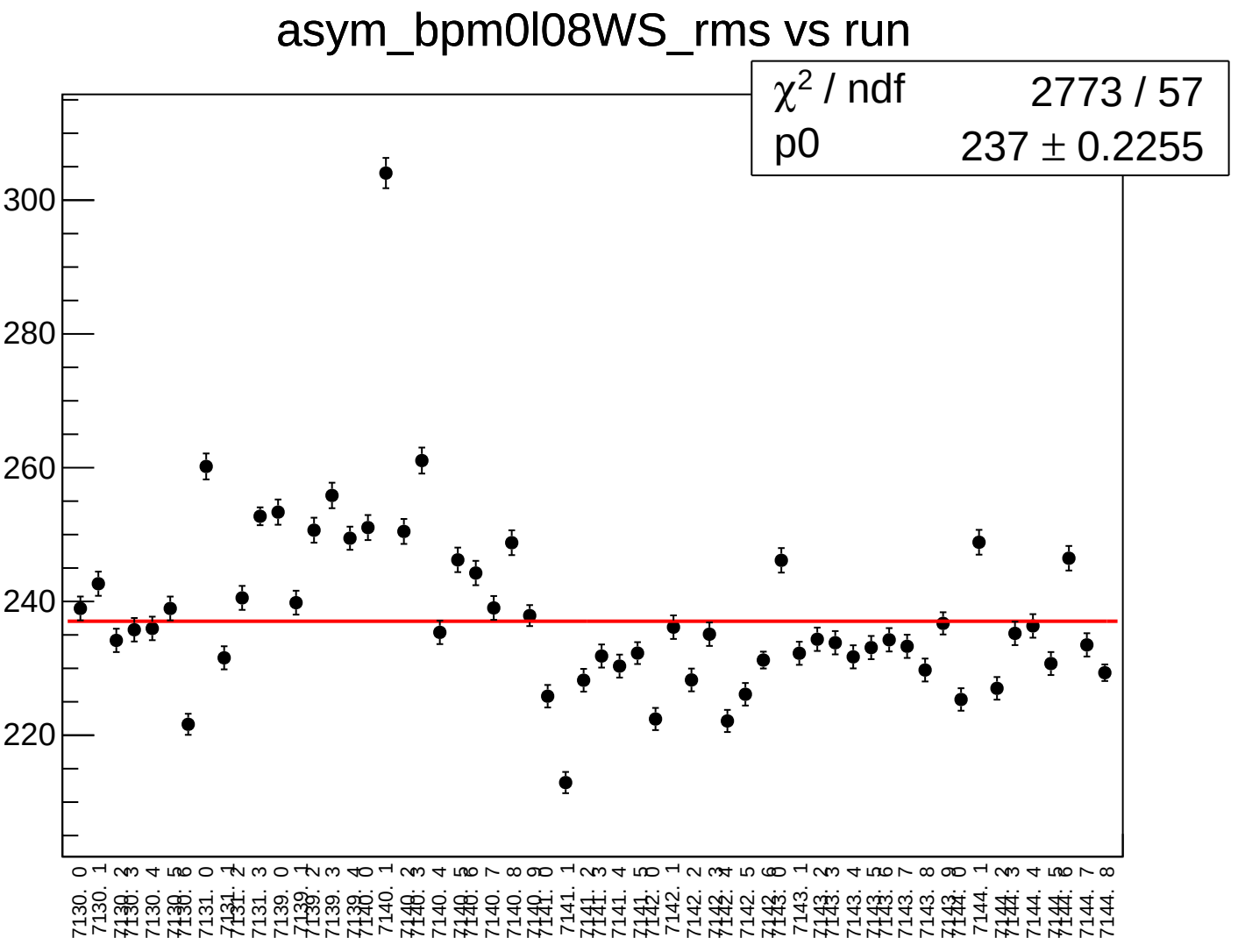

asym_bpm0l07WS_mean vs run
χ² / ndf 23.77 / 57
p0 −423 ± 329.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean 567.1
Std Dev 540.3
1
0.5
0
−0.5
−1
−1.5

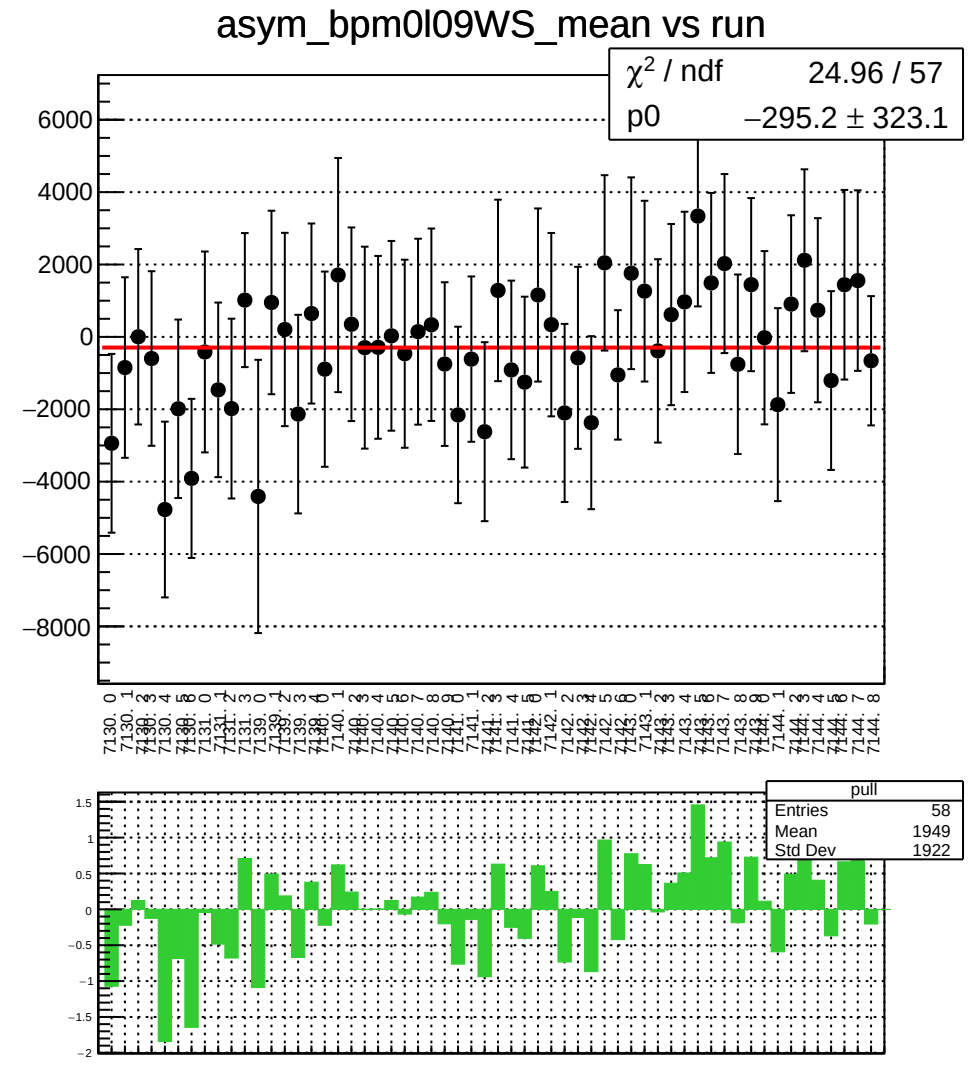

pull1D
Entries 58
Mean 0.0081
Std Dev 0.6402
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

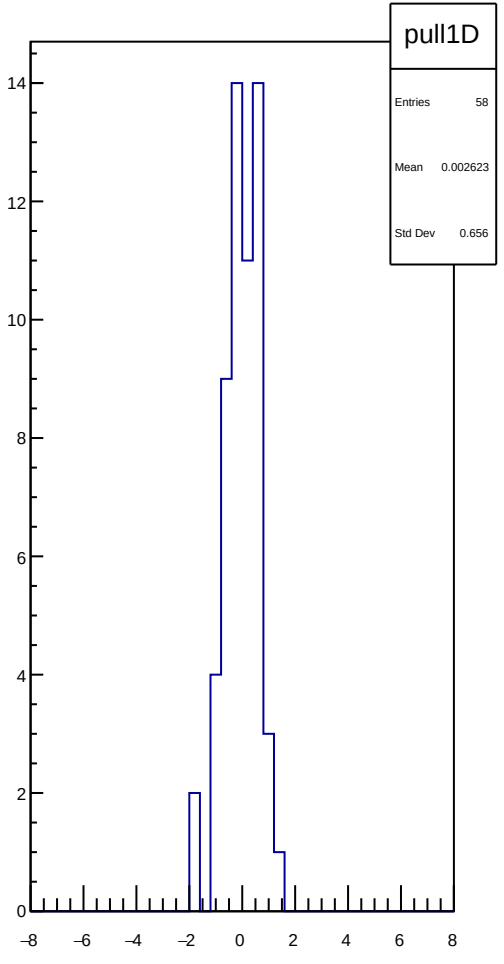

asym_bpm0l07WS_rms vs run
χ² / ndf 2715 / 57
p0 245 ± 0.233
320
300
280
260
240
220

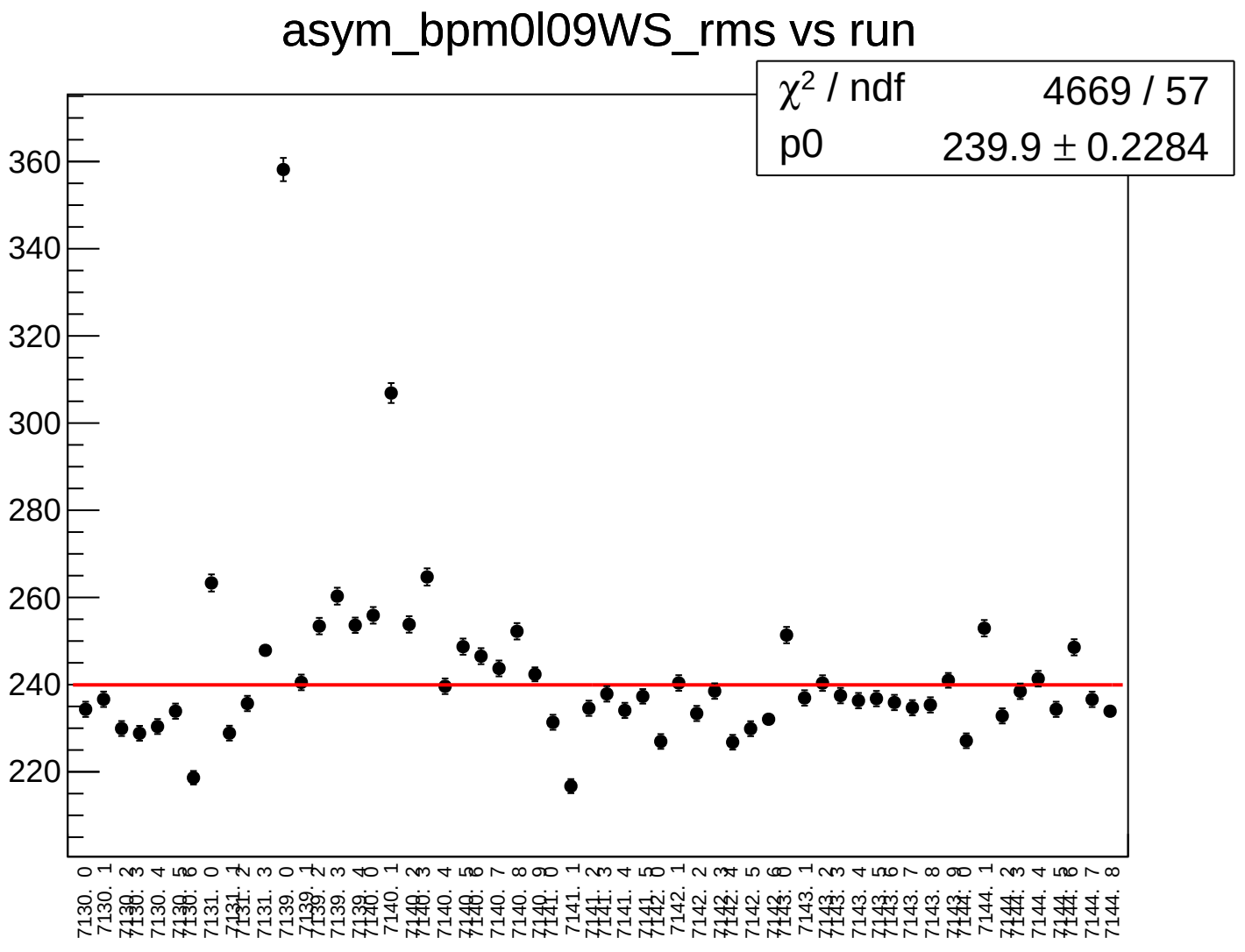

asym_bpm0l08WS_mean vs run
χ² / ndf 21.36 / 57
p0 −458.4 ± 318.9
pull
Entries 58
Mean 1383
Std Dev 1356

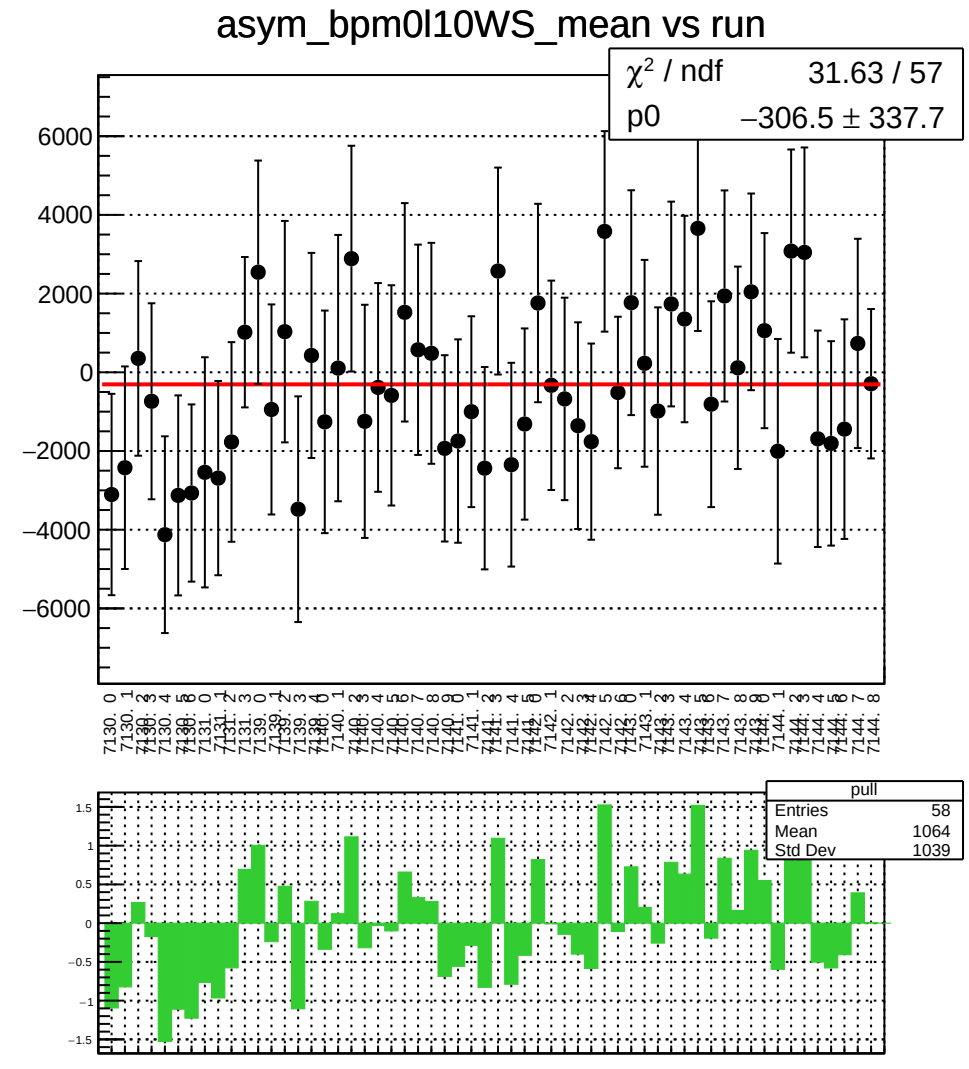

pull1D
Entries 58
Mean 0.002995
Std Dev 0.6068

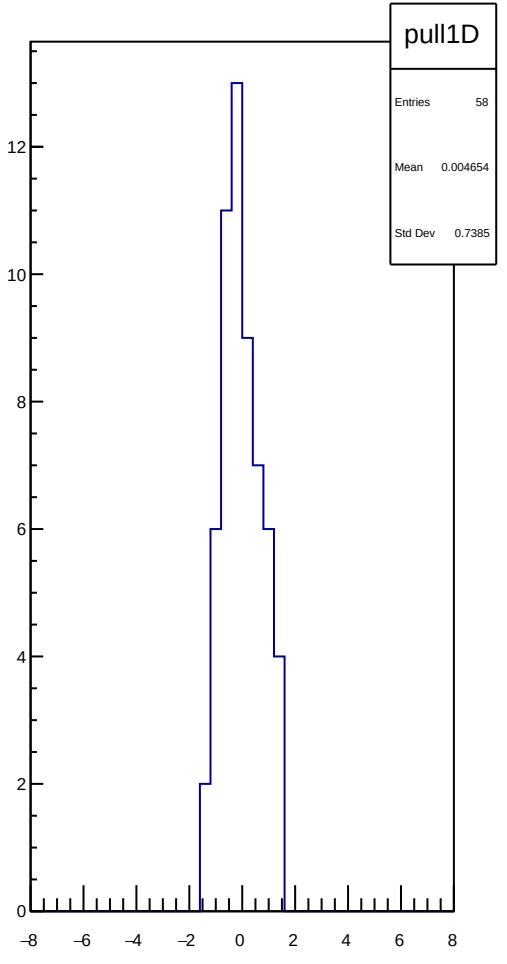

asym_bpm0l08WS_rms vs run
χ² / ndf 2773 / 57
p0 237 ± 0.2255
300
280
260
240
220

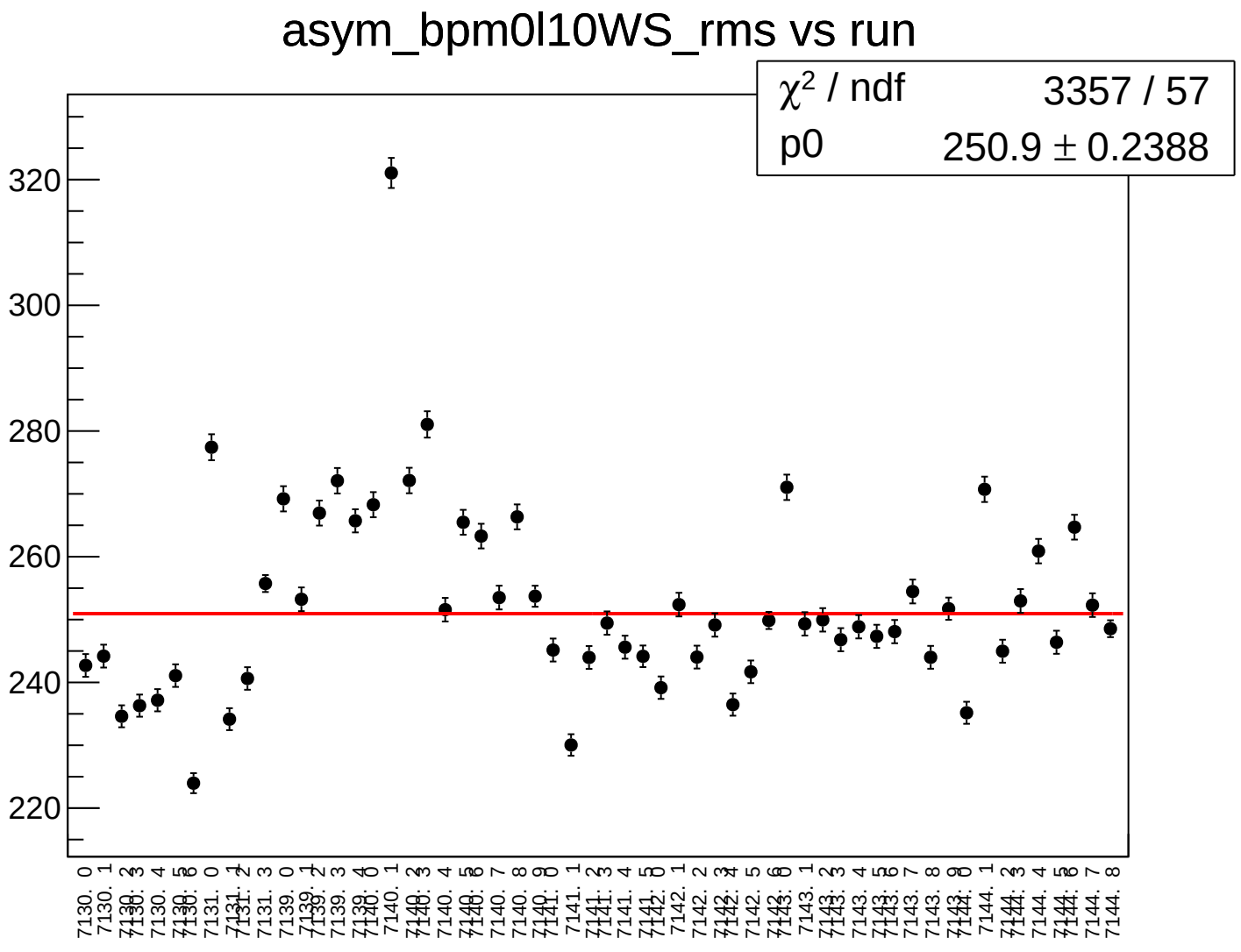

asym_bpm0l09WS_mean vs run
χ² / ndf 24.96 / 57
p0 −295.2 ± 323.1
pull
Entries 58
Mean 1949
Std Dev 1922

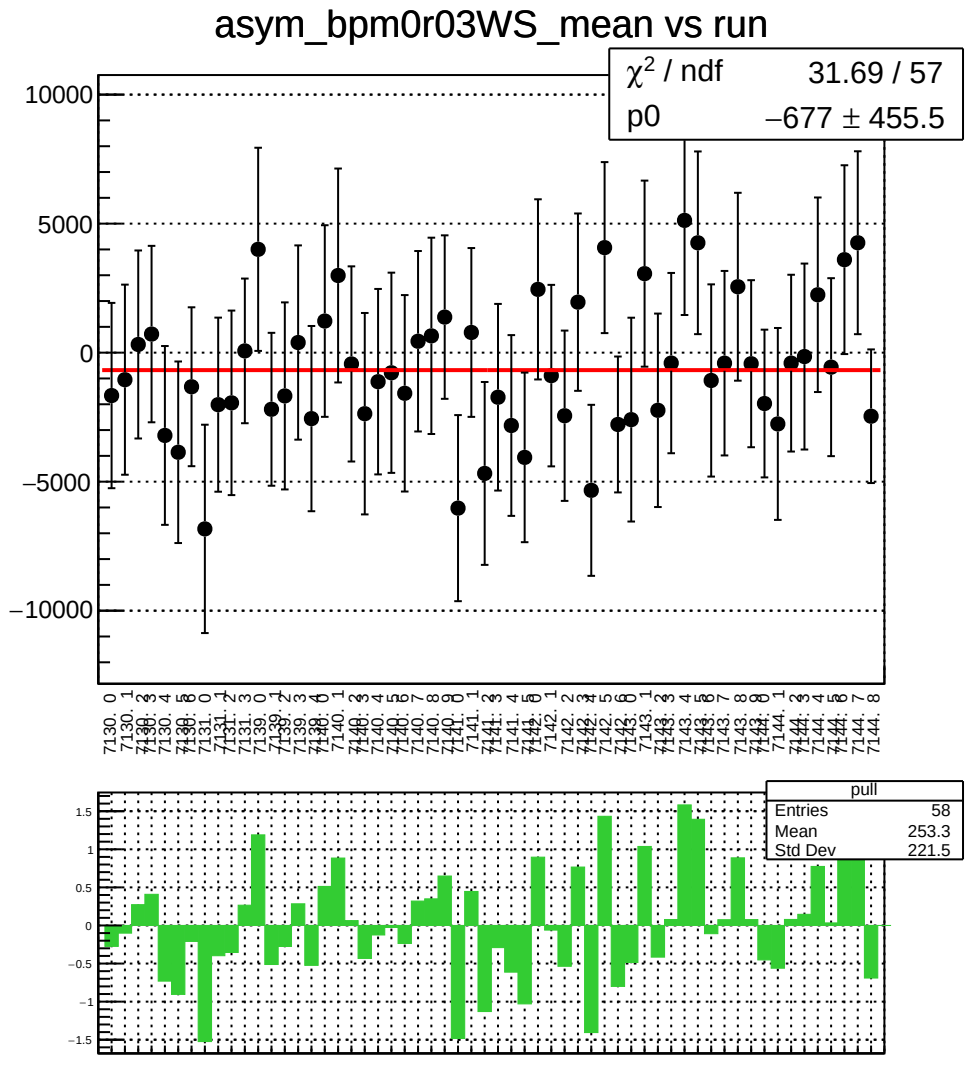

pull1D
Entries 58
Mean 0.002623
Std Dev 0.656

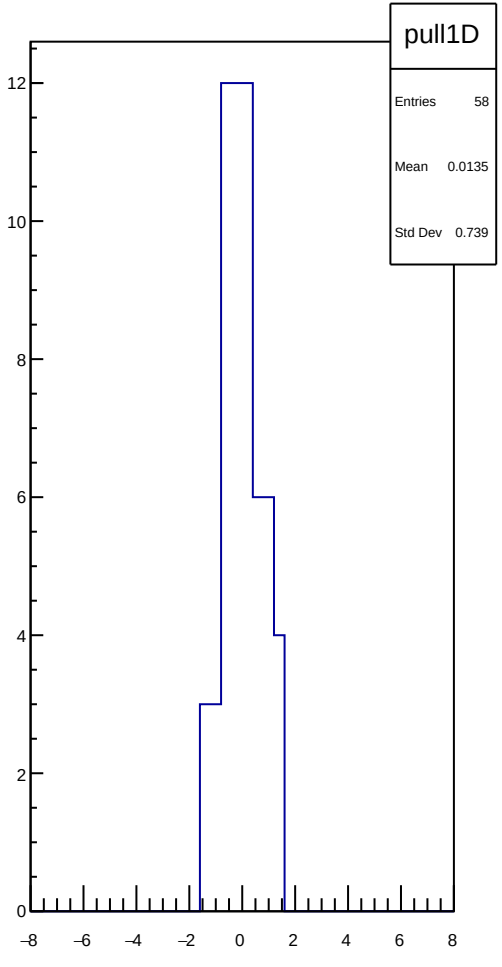

asym_bpm0l09WS_rms vs run
χ² / ndf 4669 / 57
p0 239.9 ± 0.2284
360
340
320
300
280
260
240
220

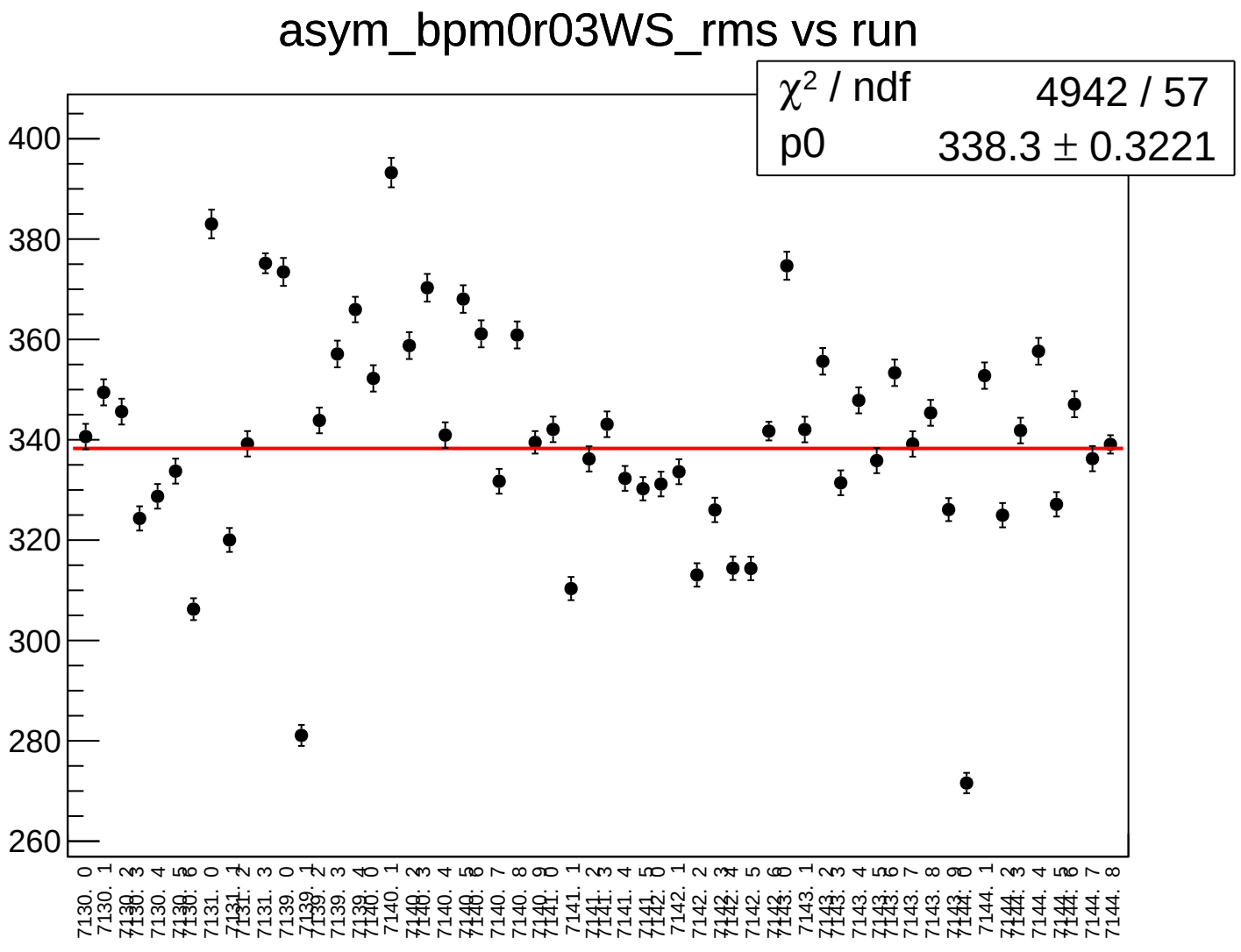

asym_bpm0l10WS_mean vs run
χ² / ndf 31.63 / 57
p0 −306.5 ± 337.7
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean 1064
Std Dev 1039
1.5
1
0.5
0
−0.5
−1
−1.5

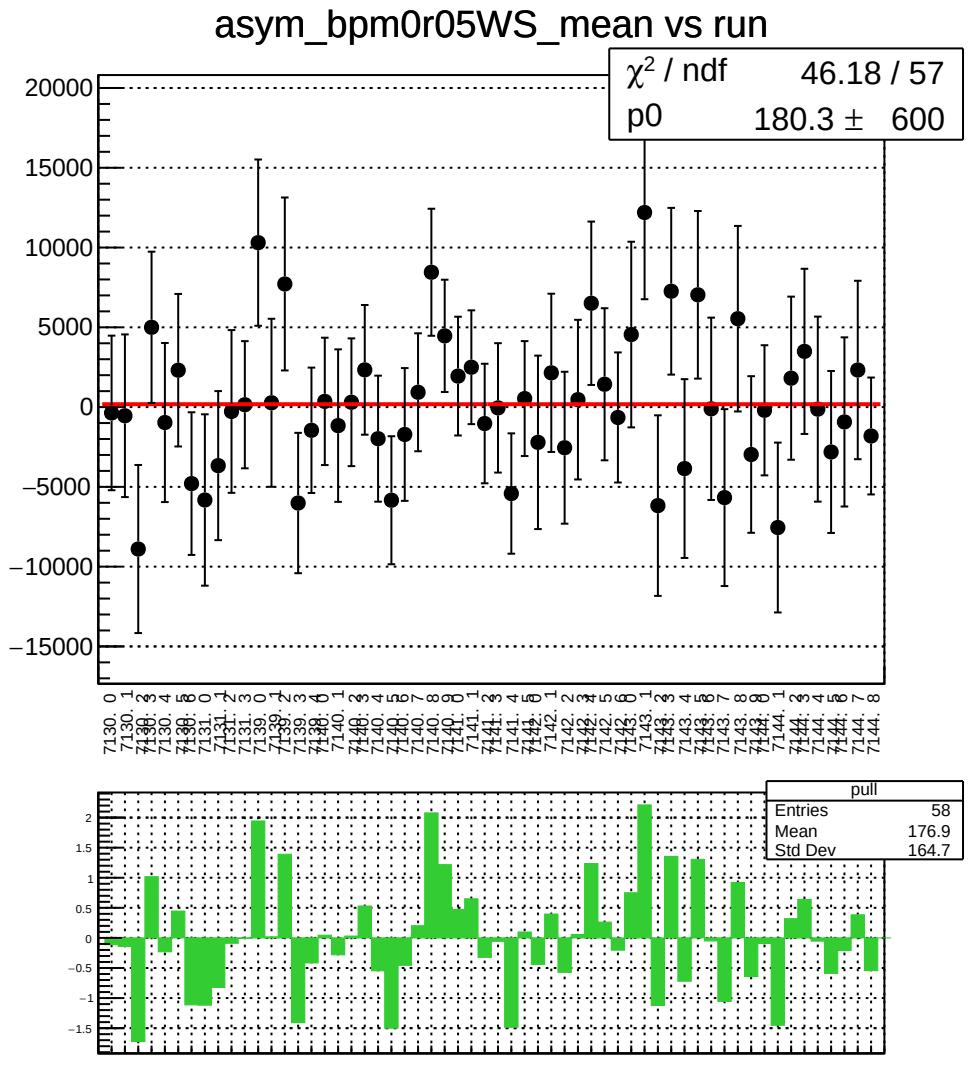

pull1D
Entries 58
Mean 0.004654
Std Dev 0.7385
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

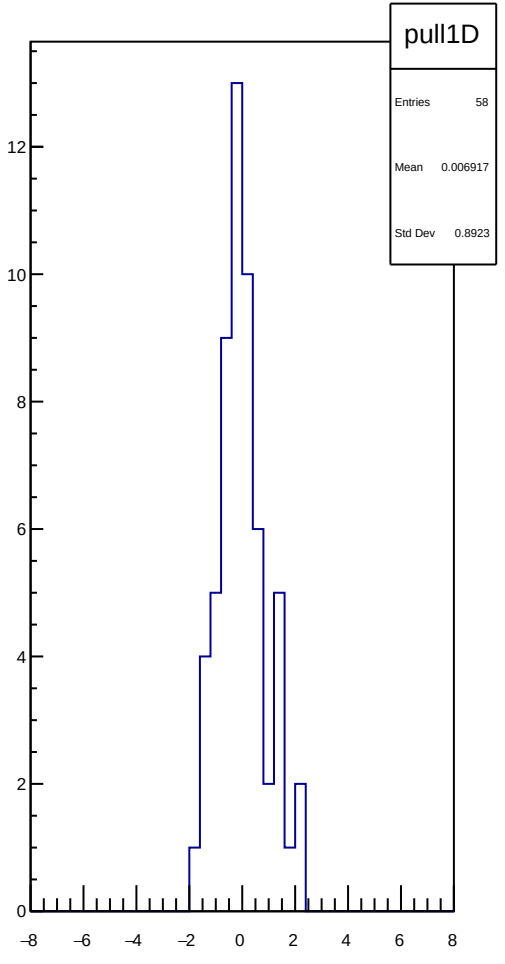

asym_bpm0l10WS_rms vs run
χ² / ndf 3357 / 57
p0 250.9 ± 0.2388
320
300
280
260
240
220

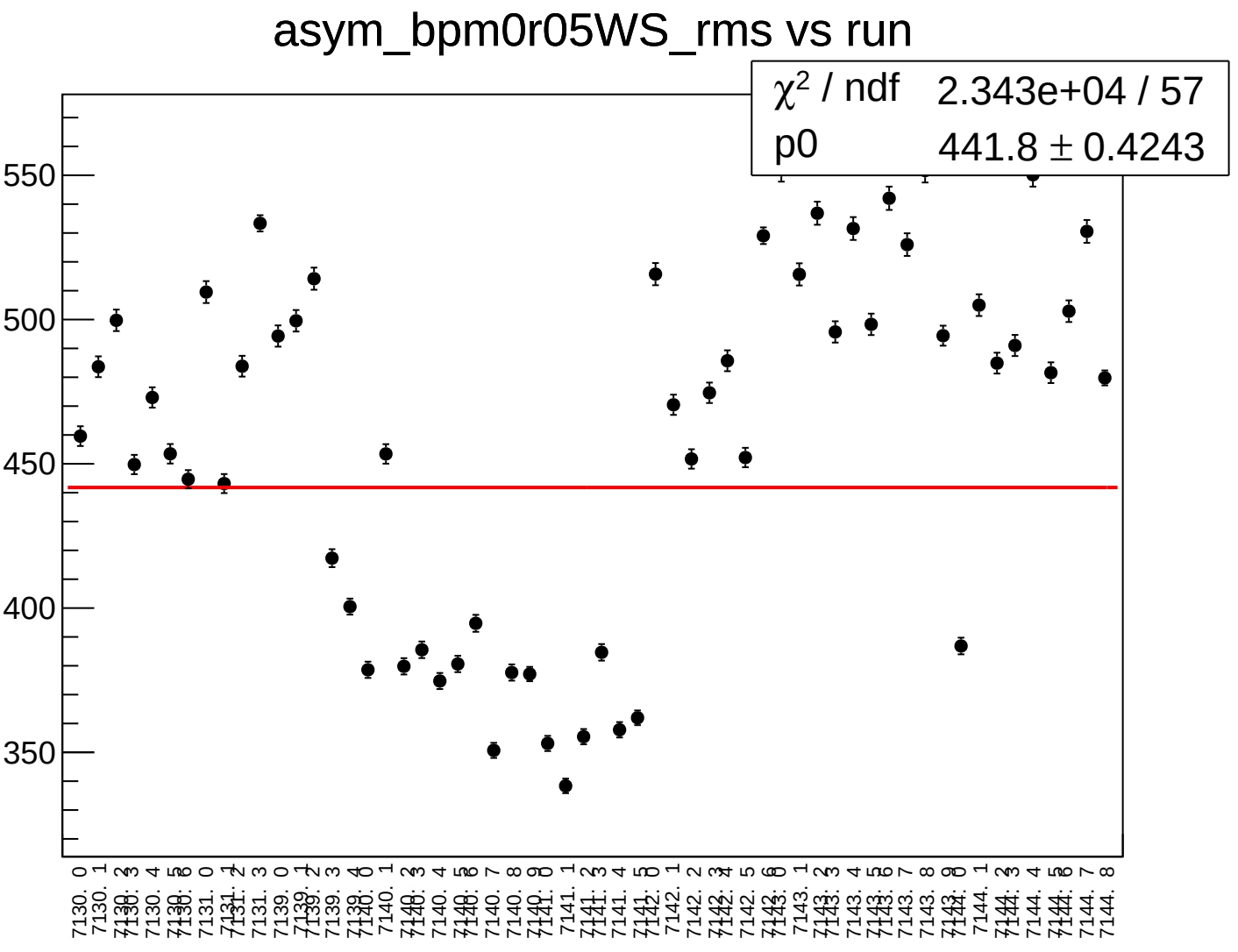

asym_bpm0r03WS_mean vs run
χ² / ndf 31.69 / 57
p0 −677 ± 455.5
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 253.3
Std Dev 221.5
1.5
1
0.5
0
−0.5
−1
−1.5

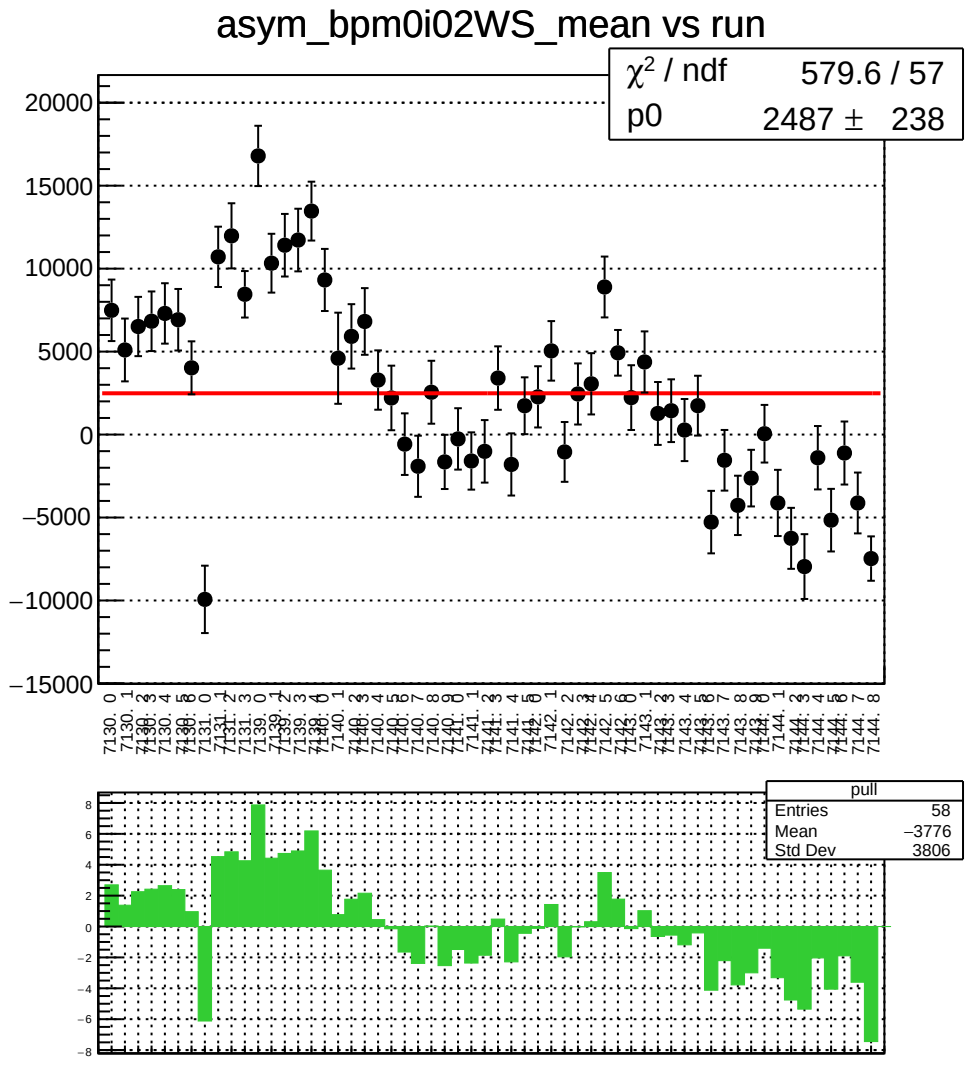

pull1D
Entries 58
Mean 0.0135
Std Dev 0.739
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

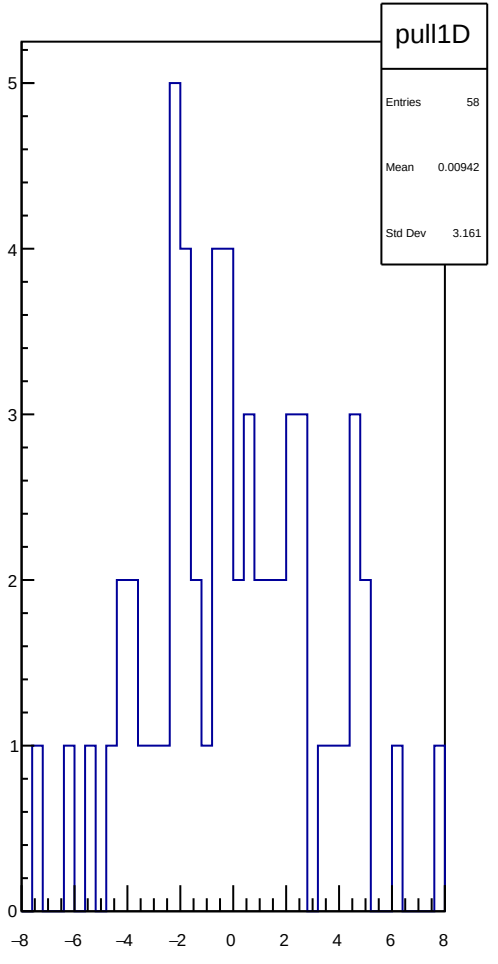

asym_bpm0r03WS_rms vs run
χ² / ndf 4942 / 57
p0 338.3 ± 0.3221
400
380
360
340
320
300
280
260

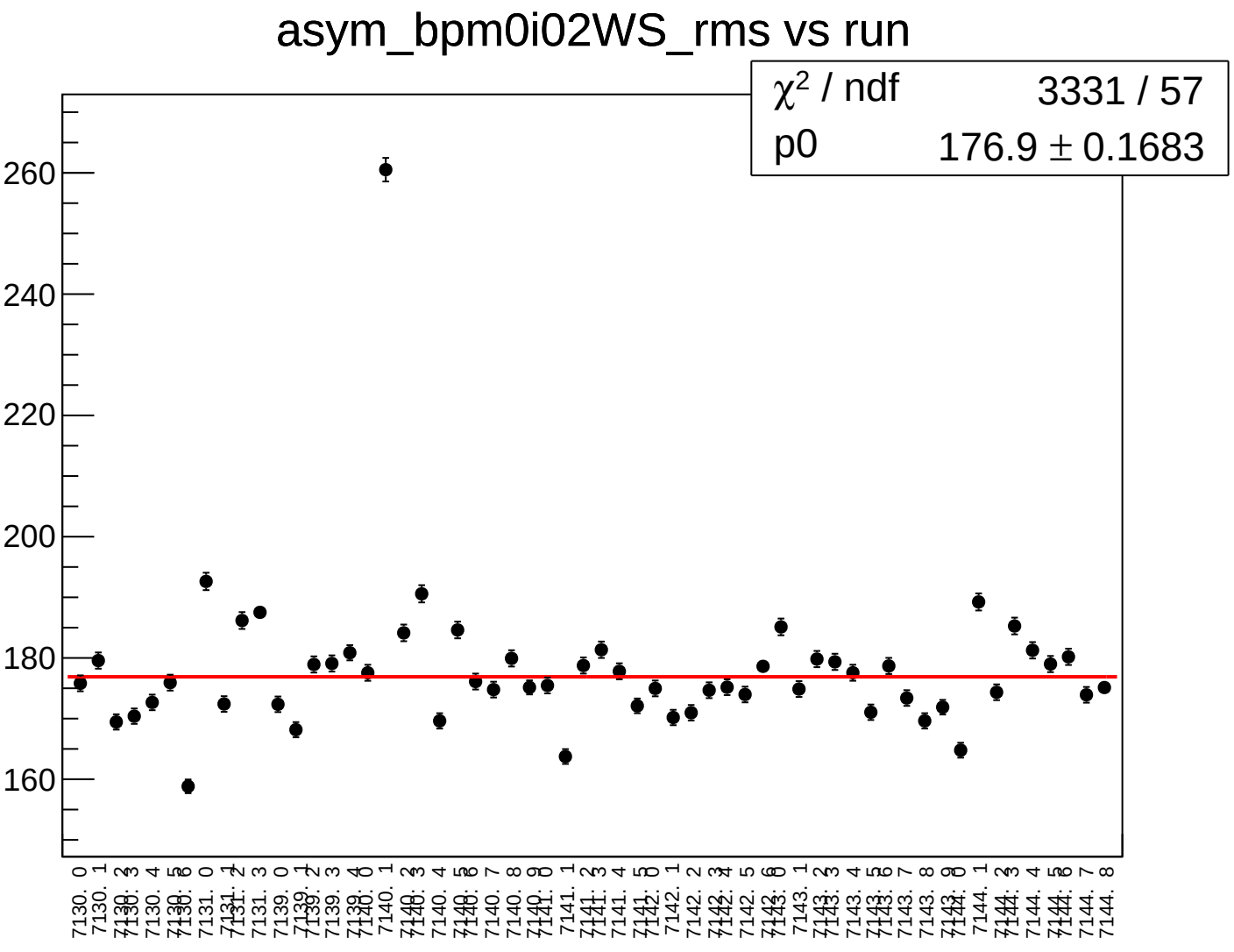

asym_bpm0r05WS_mean vs run
χ^2 / ndf 46.18 / 57
p0 180.3 ± 600
pull
Entries 58
Mean 176.9
Std Dev 164.7

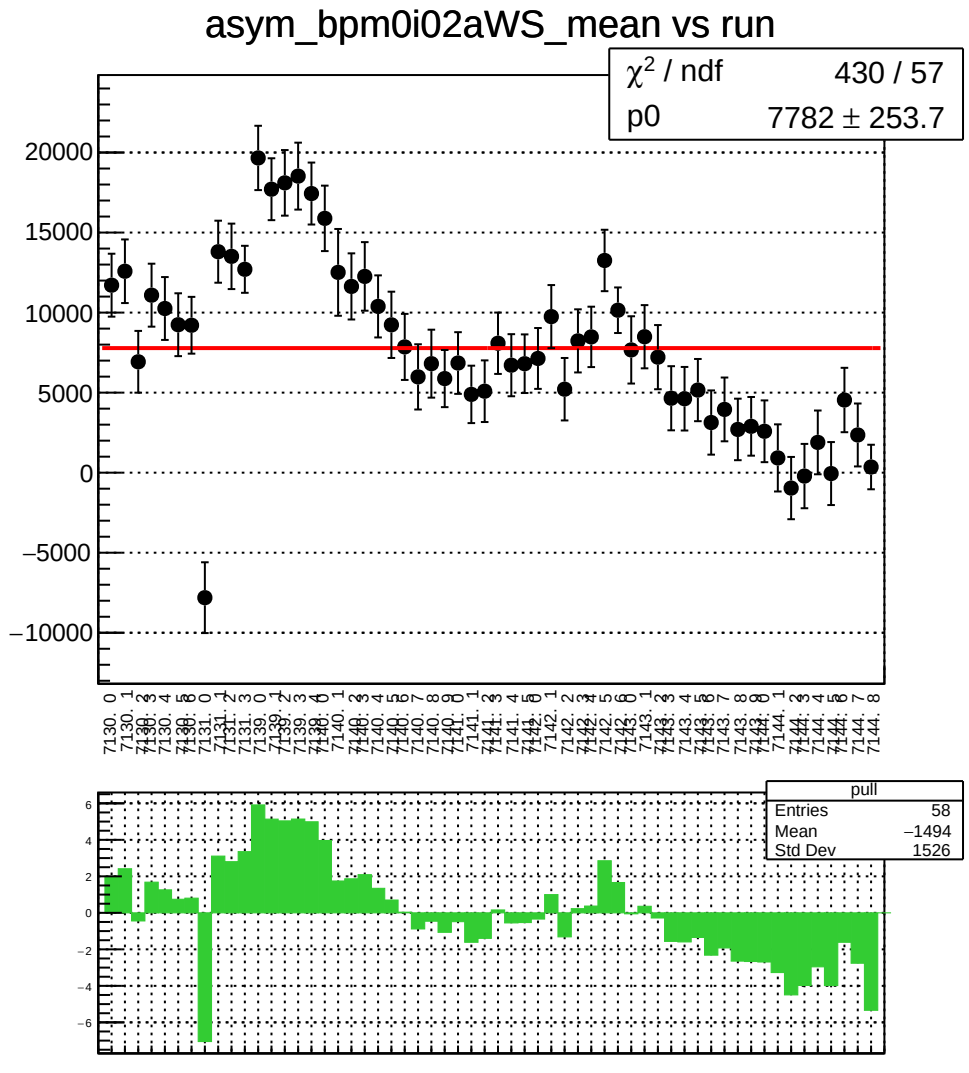

pull1D
Entries 58
Mean 0.006917
Std Dev 0.8923

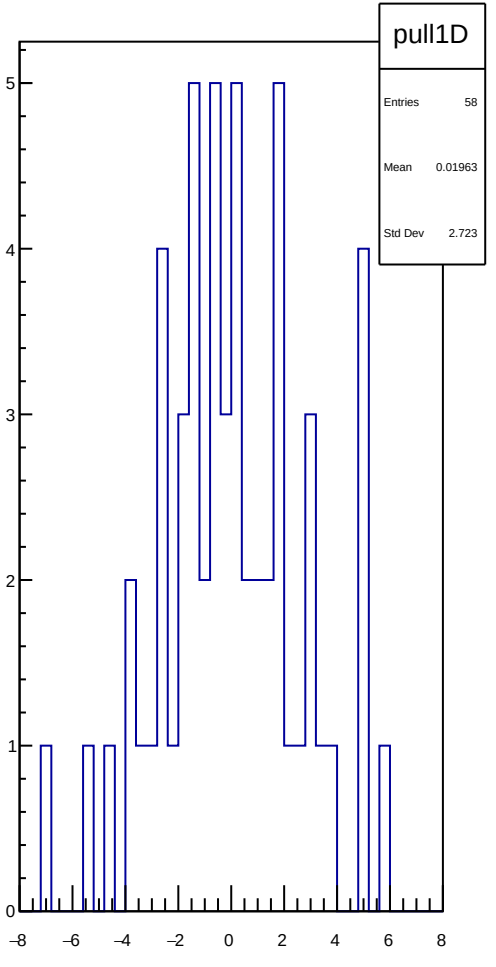

asym_bpm0r05WS_rms vs run
χ² / ndf 2.343e+04 / 57
p0 441.8 ± 0.4243
550
500
450
400
350

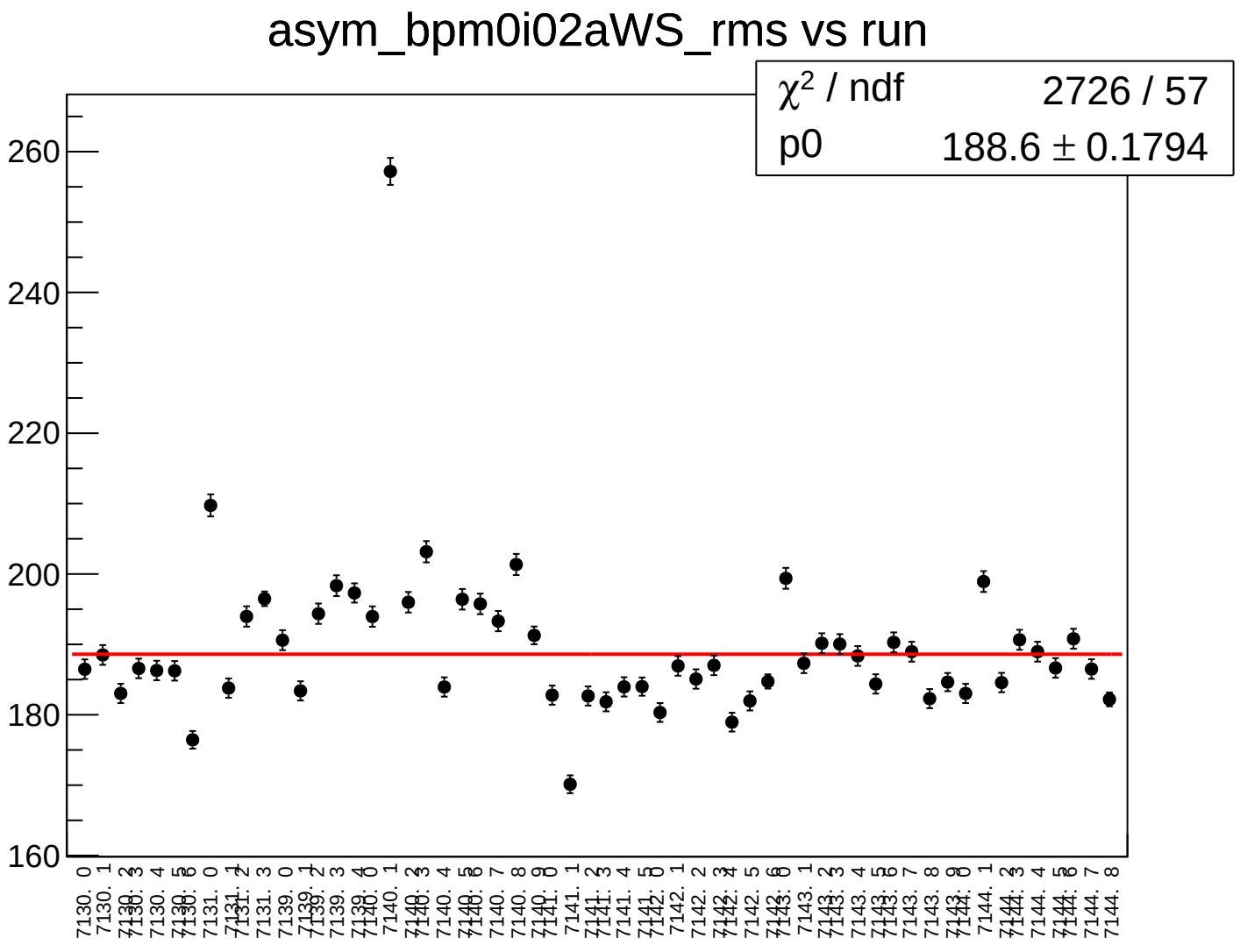

asym_bpm0i02WS_mean vs run
χ² / ndf 579.6 / 57
p0 2487 ± 238
pull
Entries 58
Mean −3776
Std Dev 3806

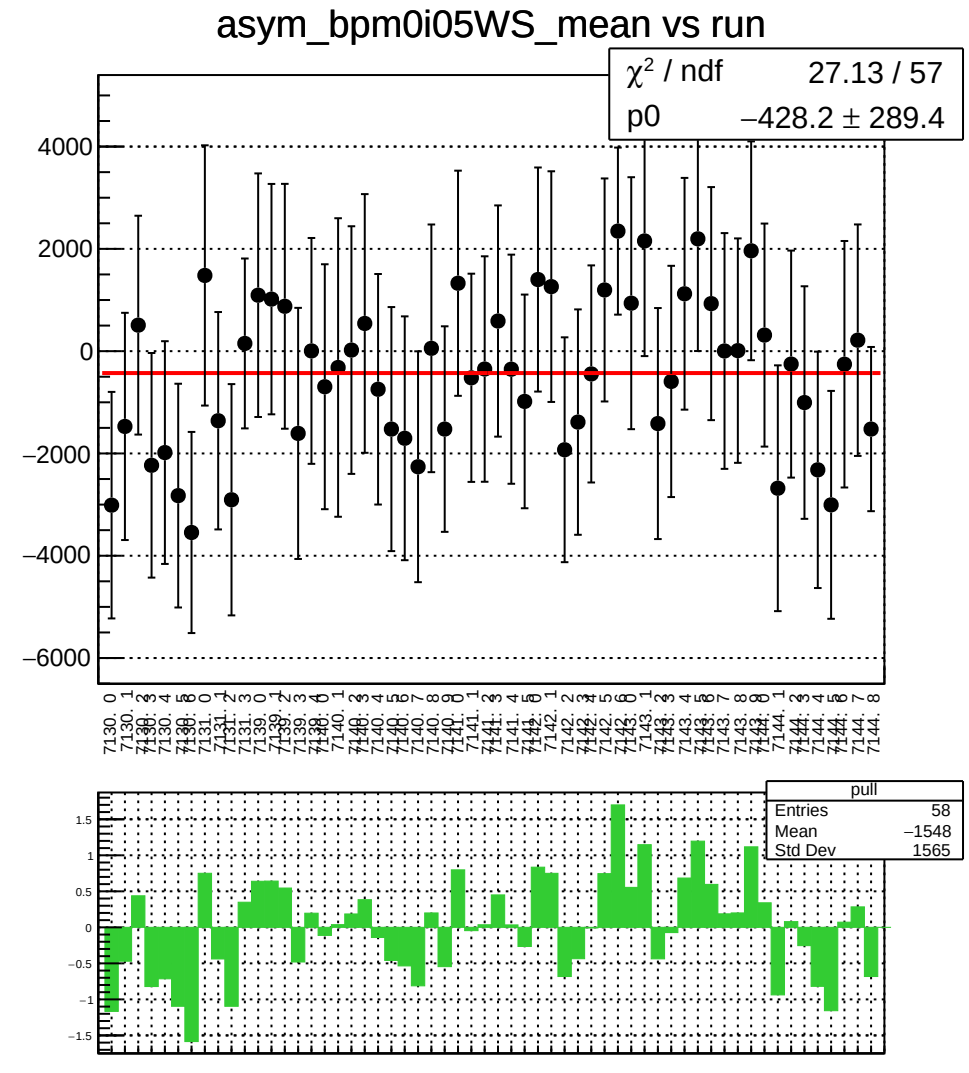

pull1D
Entries 58
Mean 0.00942
Std Dev 3.161

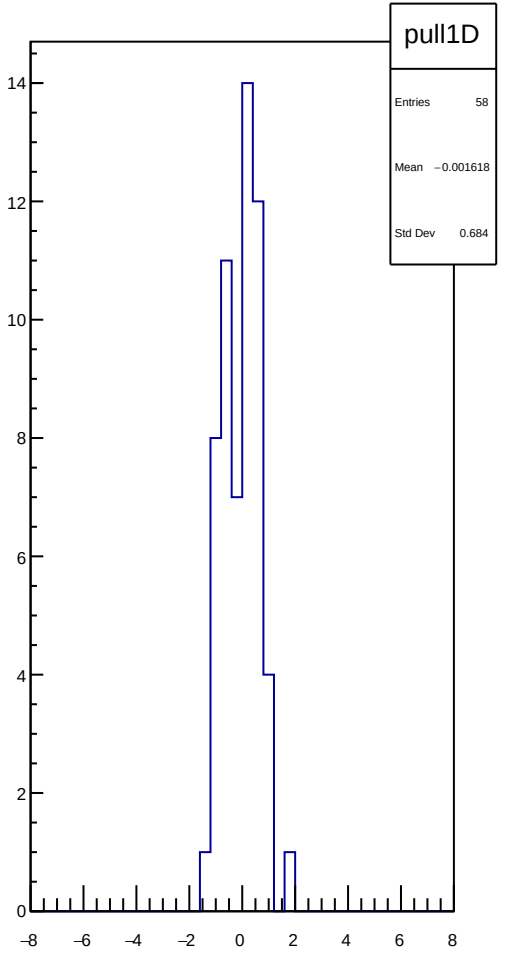

asym_bpm0i02WS_rms vs run
χ² / ndf 3331 / 57
p0 176.9 ± 0.1683
260
240
220
200
180
160

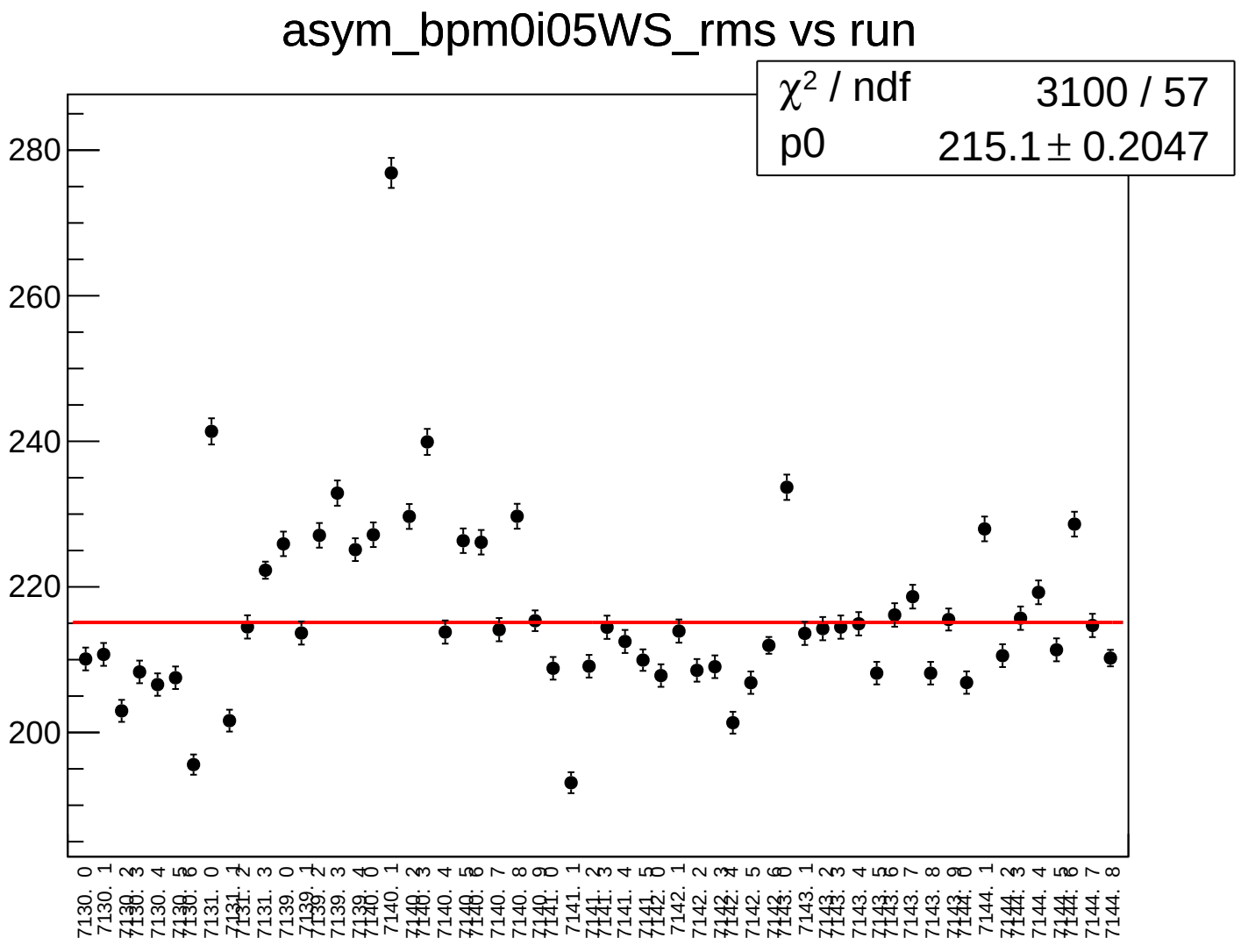

asym_bpm0i02aWS_mean vs run
χ² / ndf 430 / 57
p0 7782 ± 253.7
20000
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −1494
Std Dev 1526
6
4
2
0
−2
−4
−6

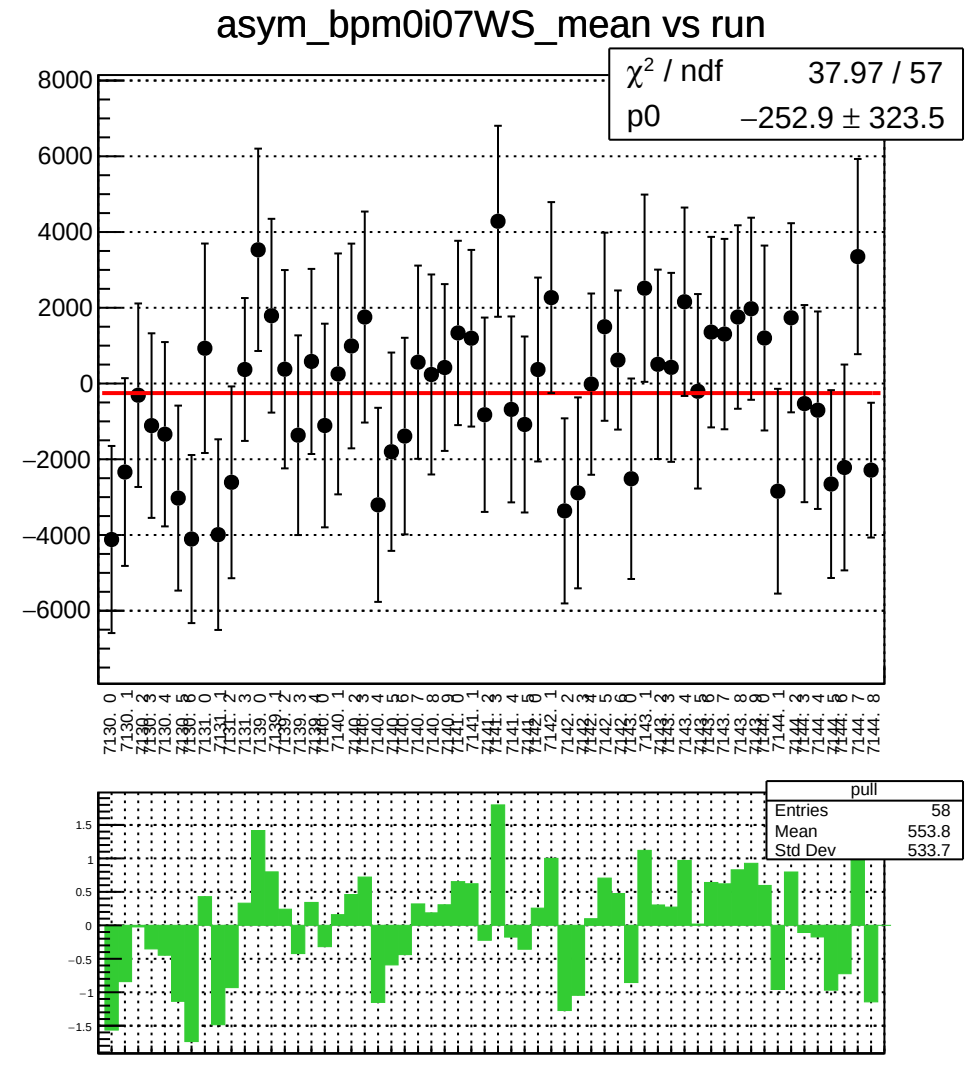

pull1D
Entries 58
Mean 0.01963
Std Dev 2.723
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

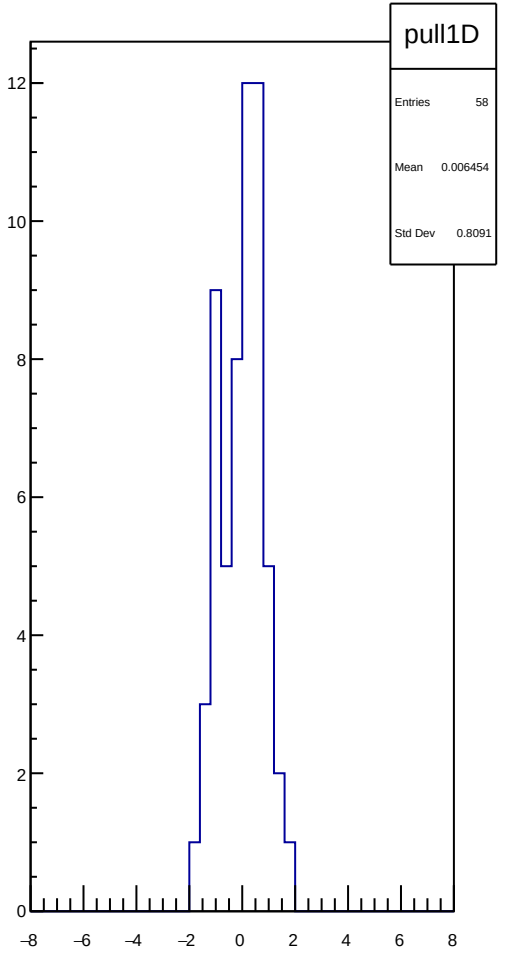

asym_bpm0i02aWS_rms vs run
χ² / ndf 2726 / 57
p0 188.6 ± 0.1794
260
240
220
200
180
160

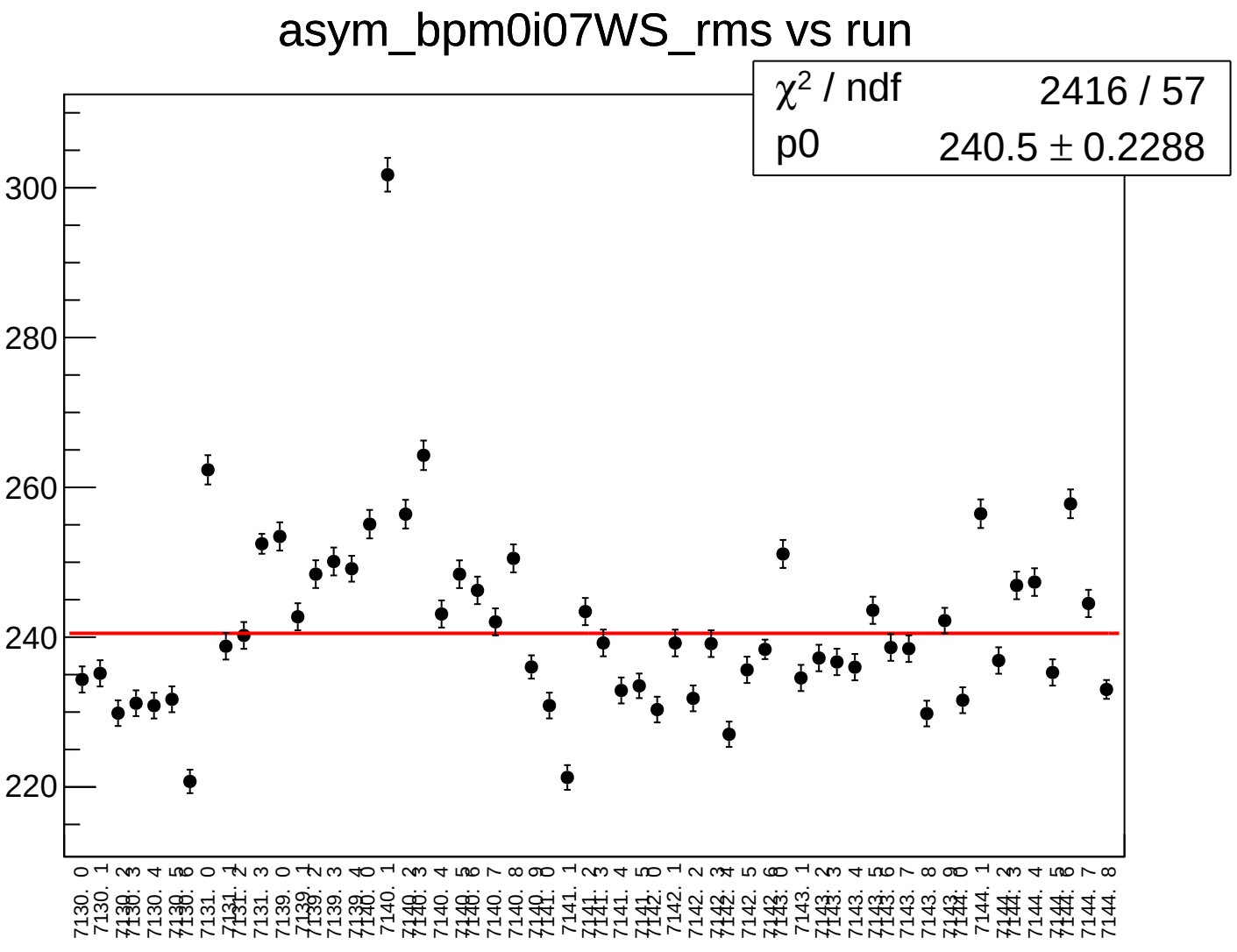

asym_bpm0i05WS_mean vs run
χ² / ndf 27.13 / 57
p0 −428.2 ± 289.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 58
Mean −1548
Std Dev 1565
1.5
1
0.5
0
−0.5
−1
−1.5

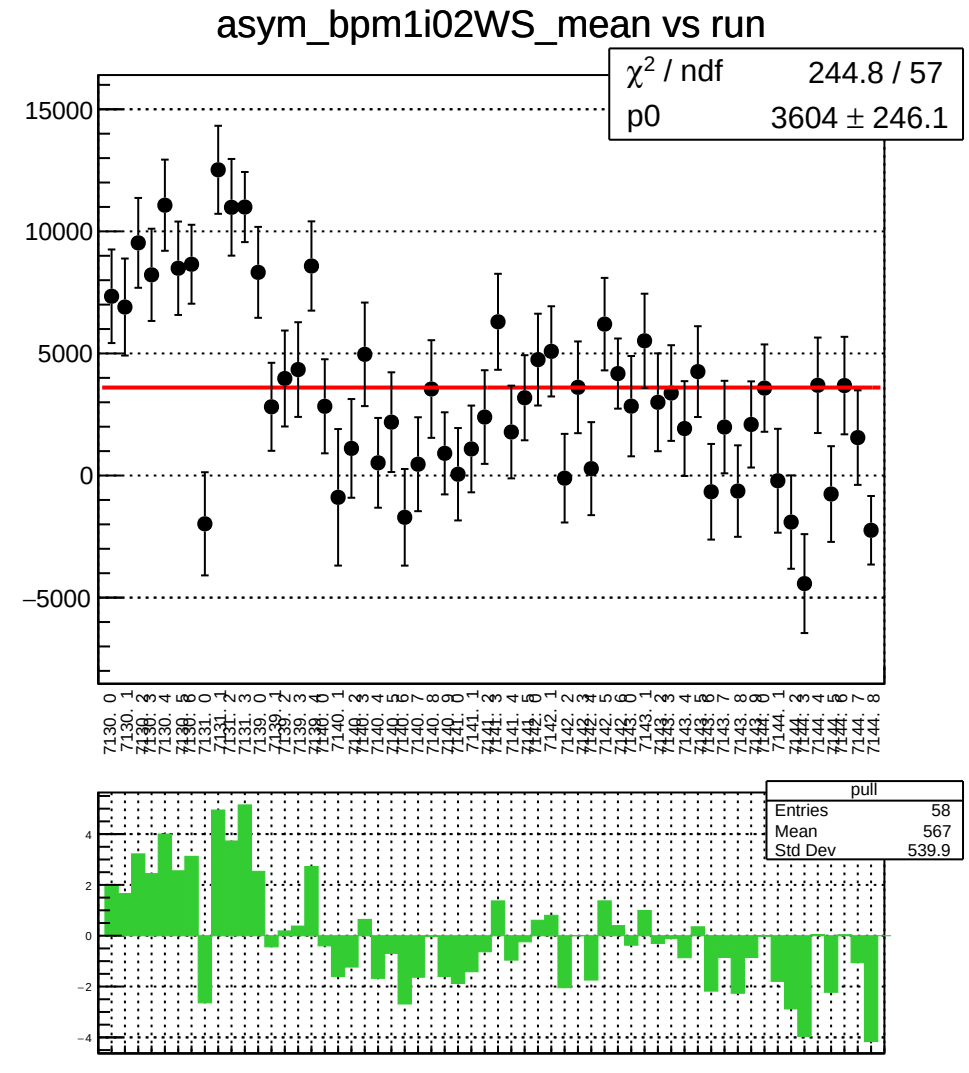

pull1D
Entries 58
Mean −0.001618
Std Dev 0.684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

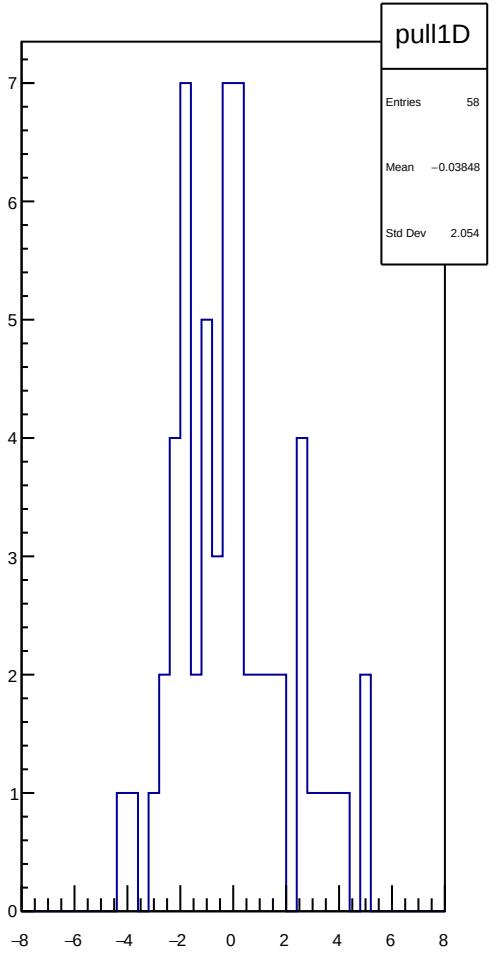

asym_bpm0i05WS_rms vs run
χ² / ndf 3100 / 57
p0 215.1 ± 0.2047
280
260
240
220
200

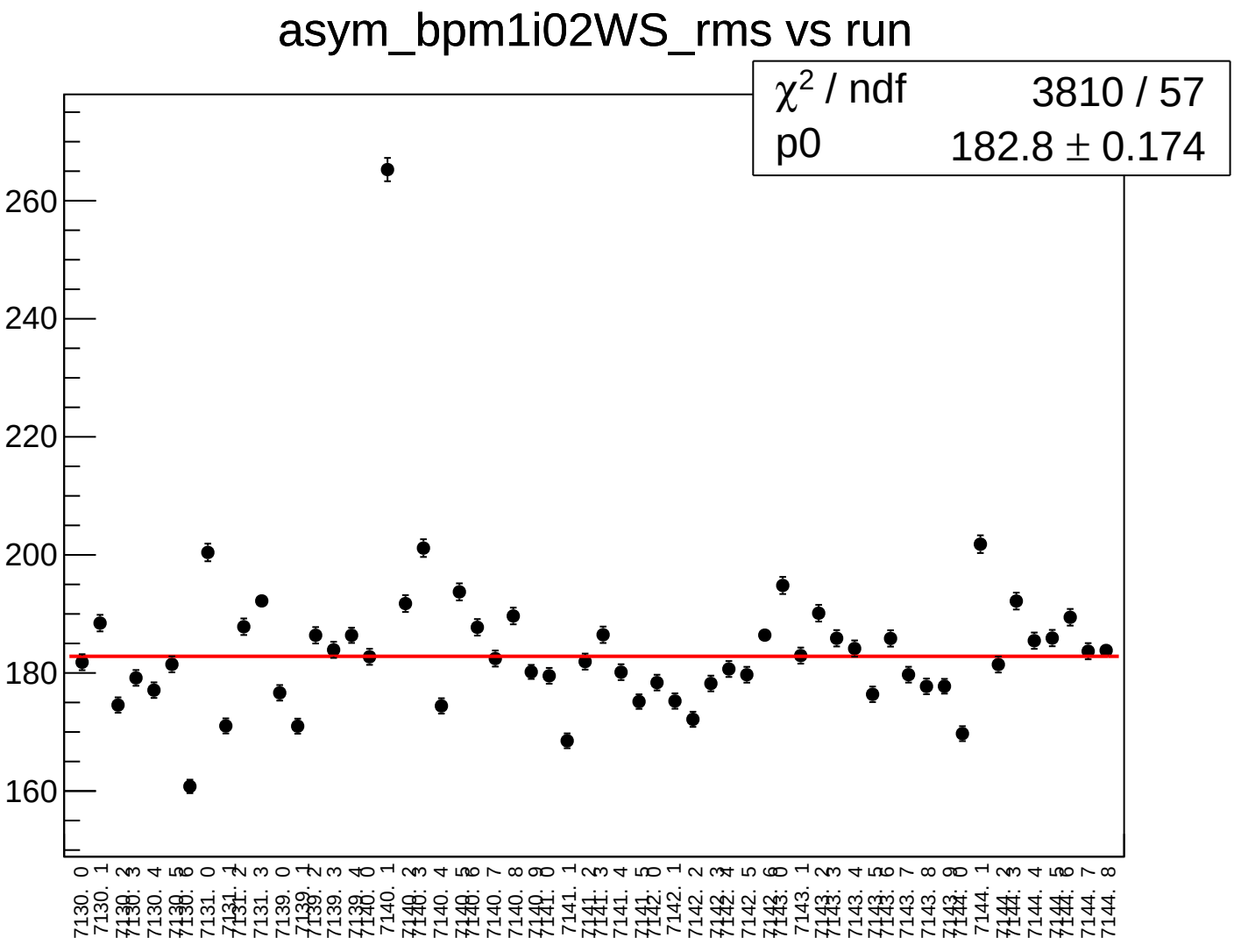

asym_bpm0i07WS_mean vs run
χ² / ndf 37.97 / 57
p0 −252.9 ± 323.5
pull
Entries 58
Mean 553.8
Std Dev 533.7

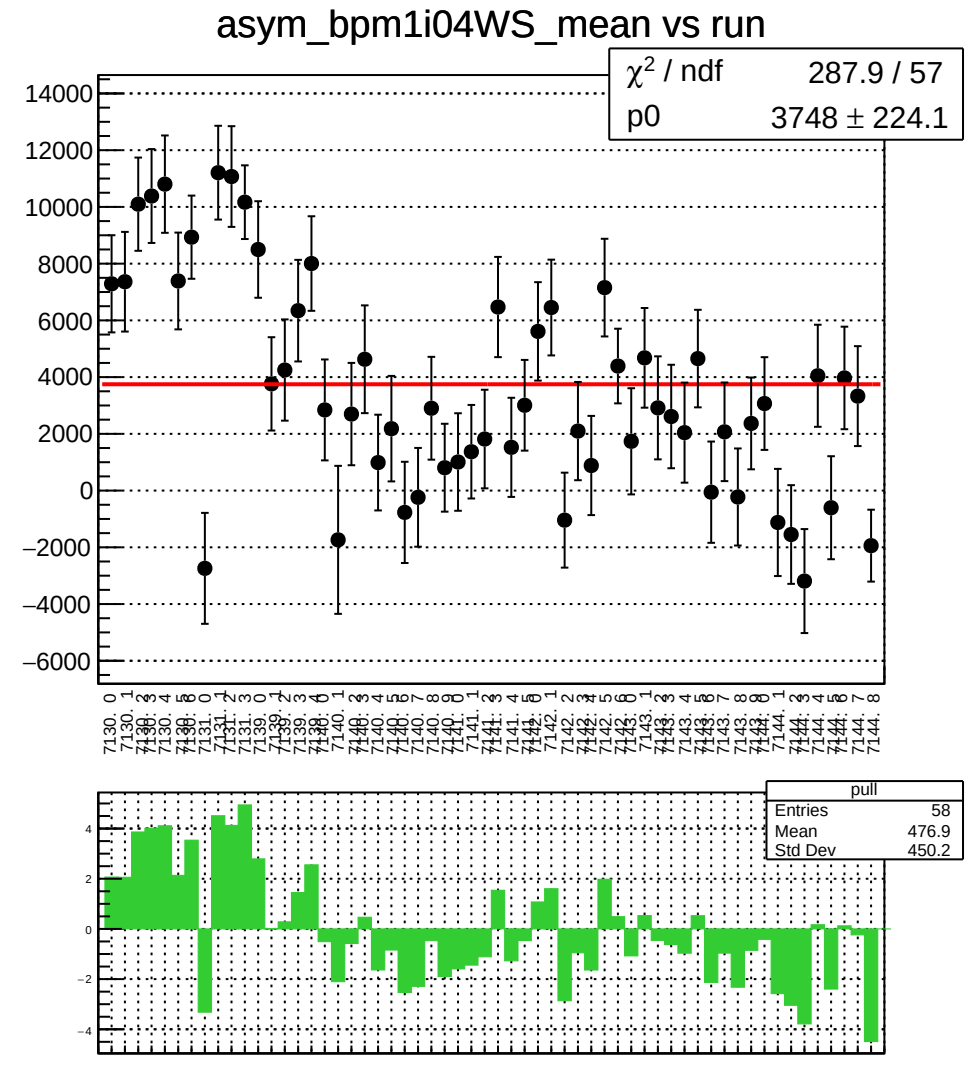

pull1D
Entries 58
Mean 0.006454
Std Dev 0.8091

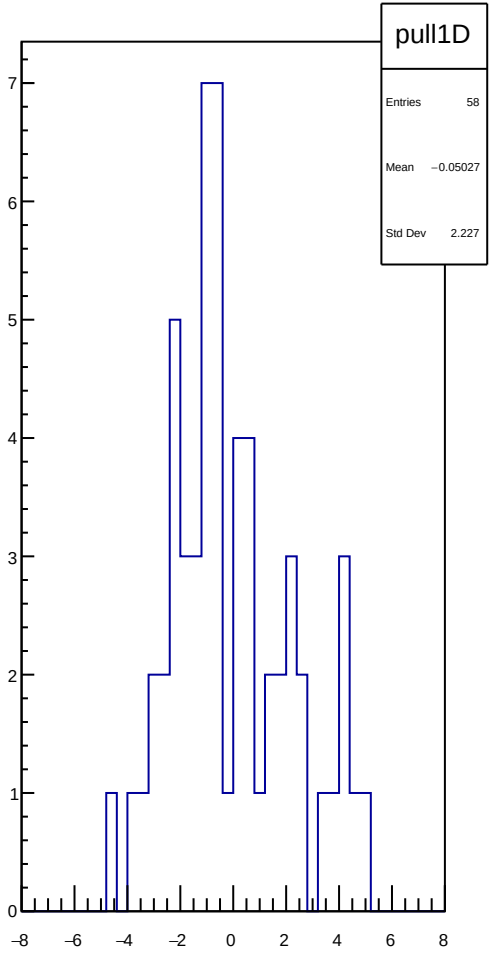

asym_bpm0i07WS_rms vs run
χ² / ndf 2416 / 57
p0 240.5 ± 0.2288
300
280
260
240
220

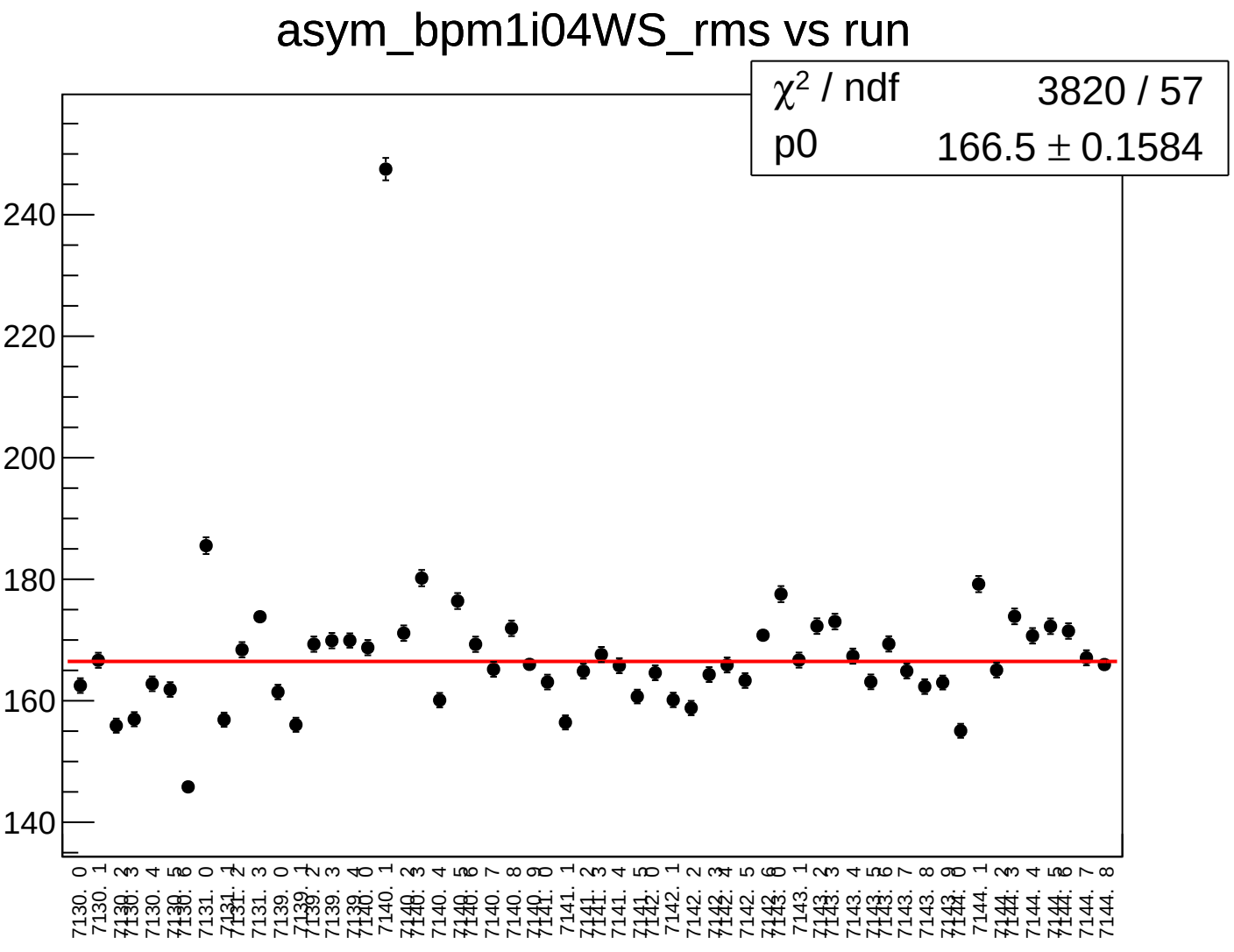

asym_bpm1i02WS_mean vs run
χ² / ndf 244.8 / 57
p0 3604 ± 246.1
15000
10000
5000
0
−5000
pull
Entries 58
Mean 567
Std Dev 539.9
4
2
0
−2
−4

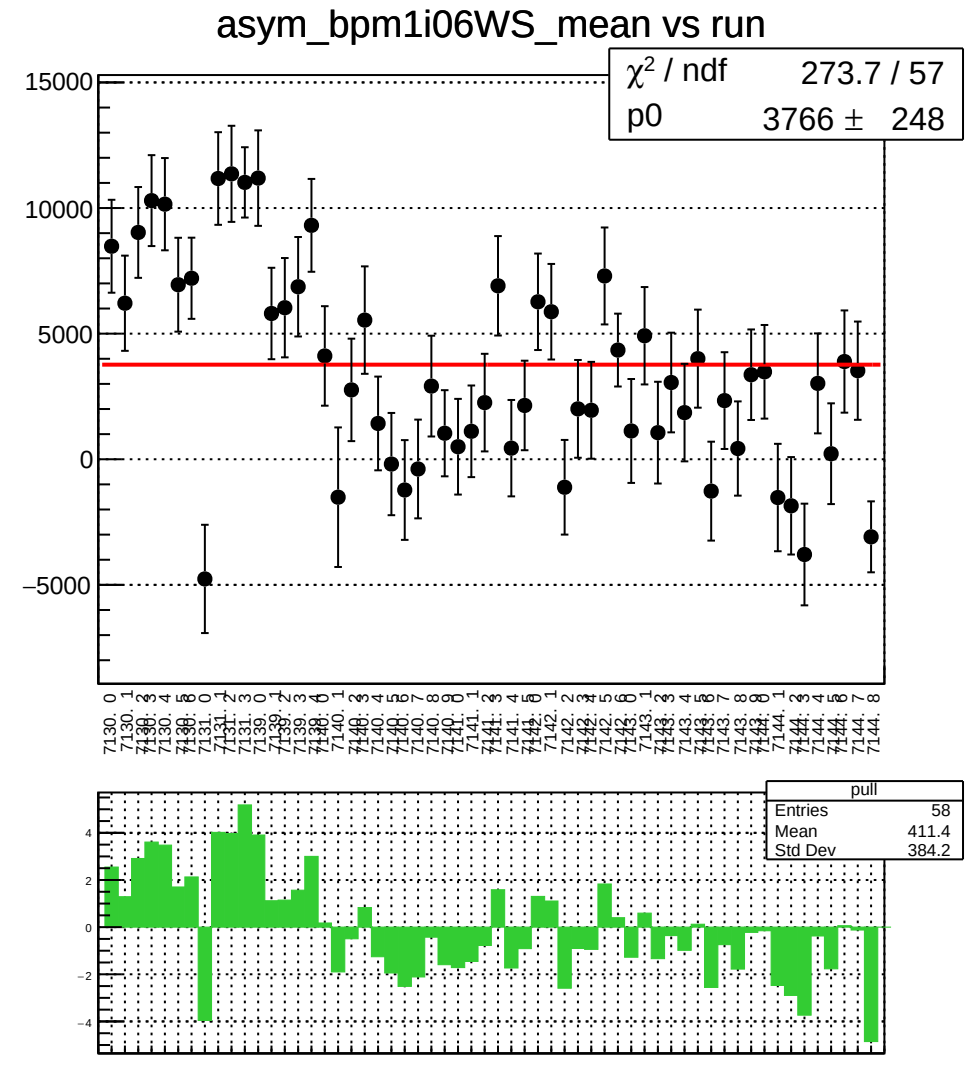

pull1D
Entries 58
Mean −0.03848
Std Dev 2.054
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

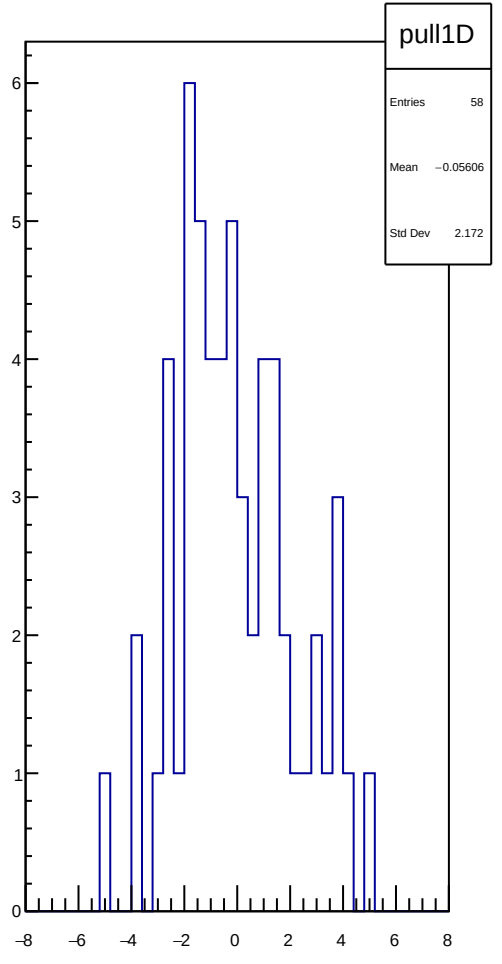

asym_bpm1i02WS_rms vs run
χ^2 / ndf 3810 / 57
p0 182.8 ± 0.174
260
240
220
200
180
160

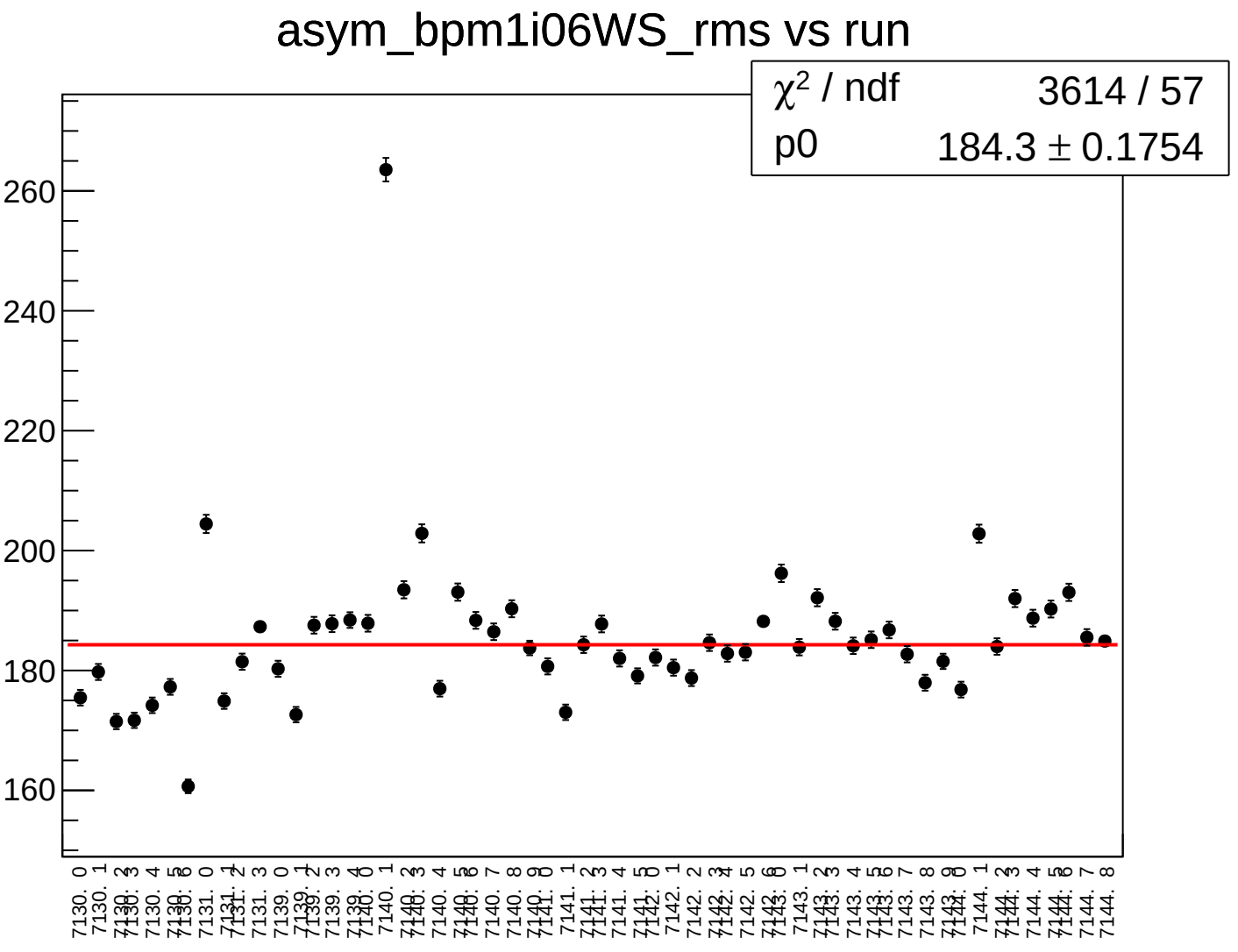

asym_bpm1i04WS_mean vs run
χ² / ndf 287.9 / 57
p0 3748 ± 224.1
pull
Entries 58
Mean 476.9
Std Dev 450.2

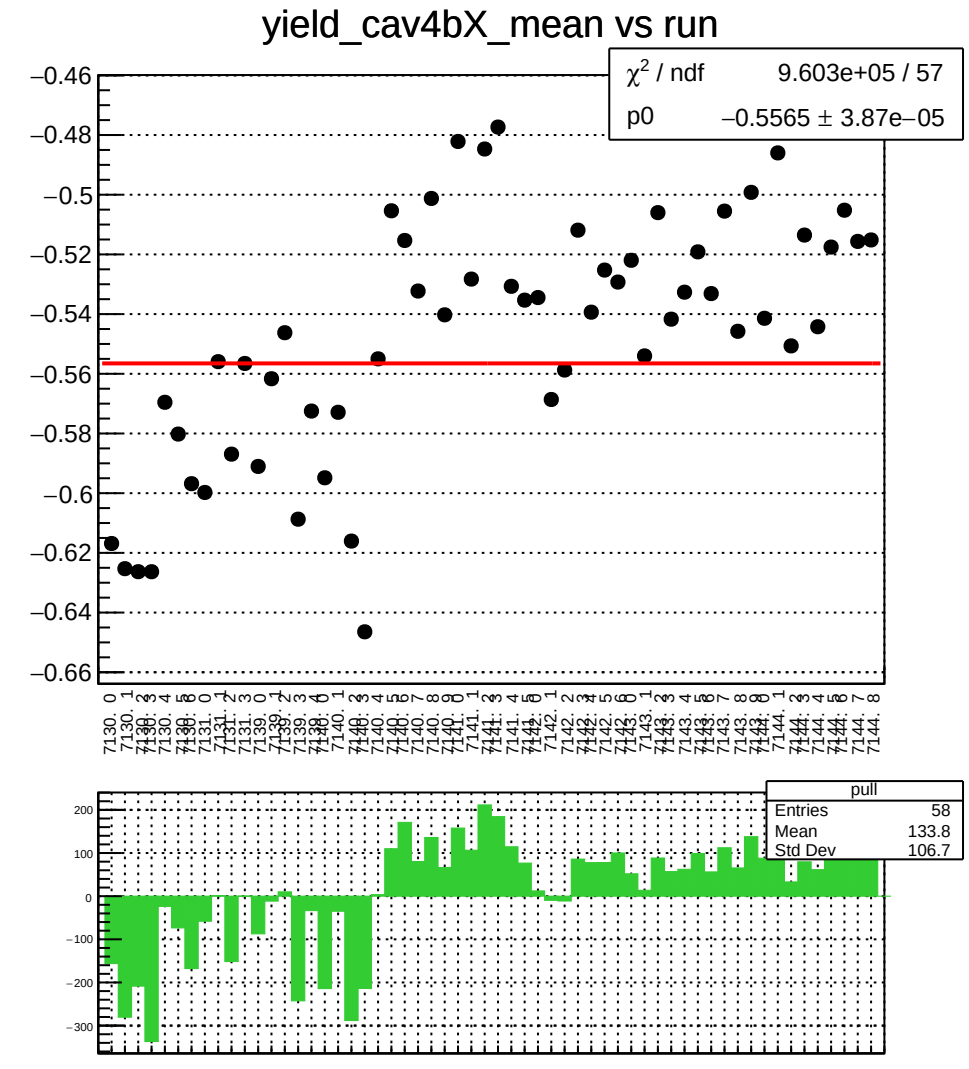

pull1D
Entries 58
Mean −0.05027
Std Dev 2.227

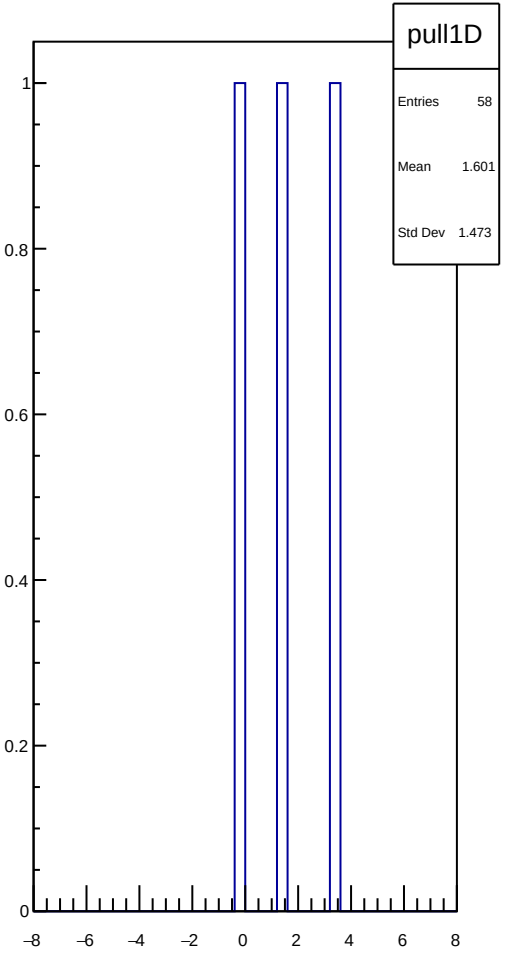

asym_bpm1i04WS_rms vs run
χ^2 / ndf 3820 / 57
p0 166.5 ± 0.1584
240
220
200
180
160
140

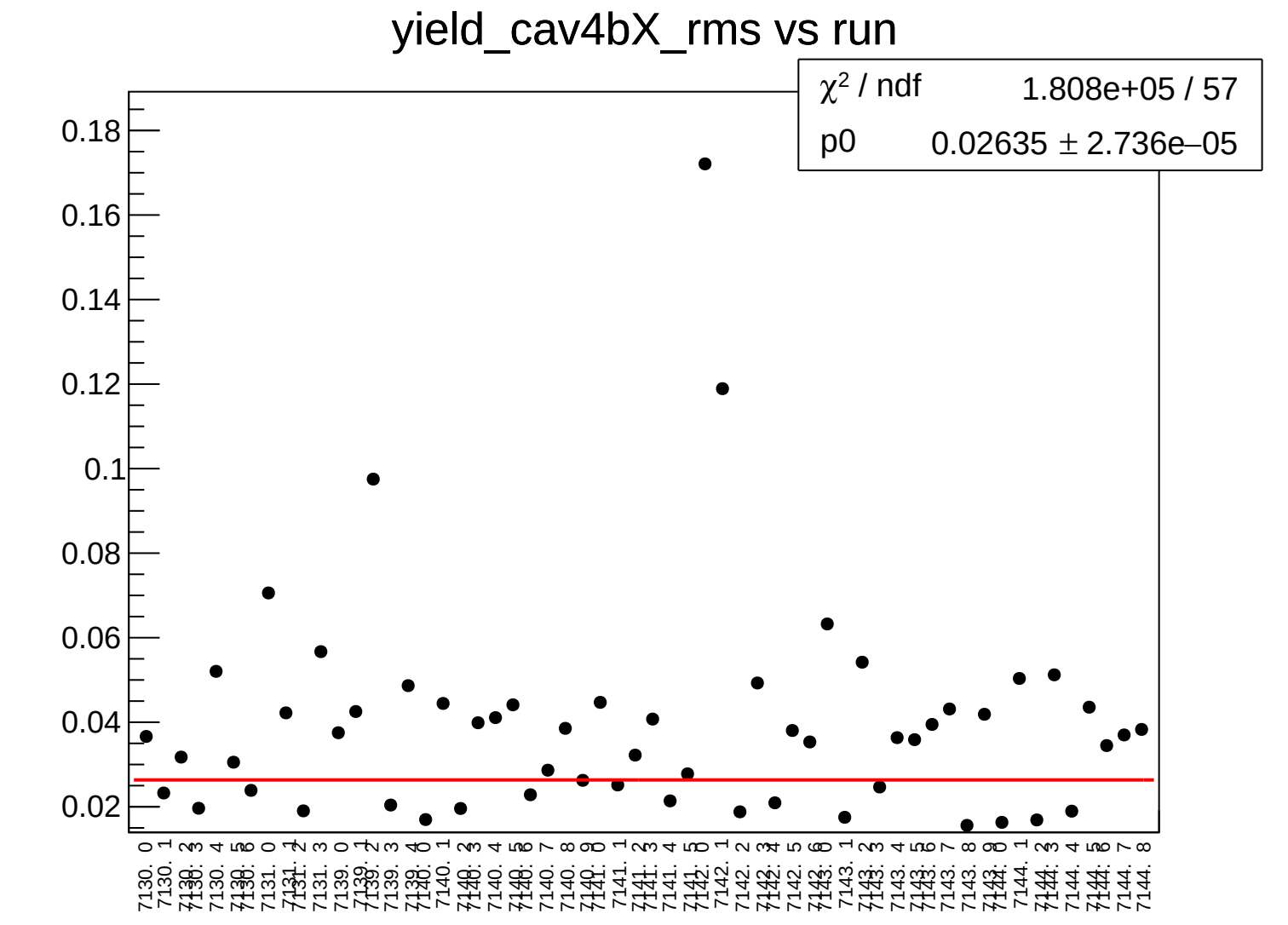

asym_bpm1i06WS_mean vs run
χ² / ndf 273.7 / 57
p0 3766 ± 248
15000
10000
5000
0
−5000
pull
Entries 58
Mean 411.4
Std Dev 384.2
4
2
0
−2
−4

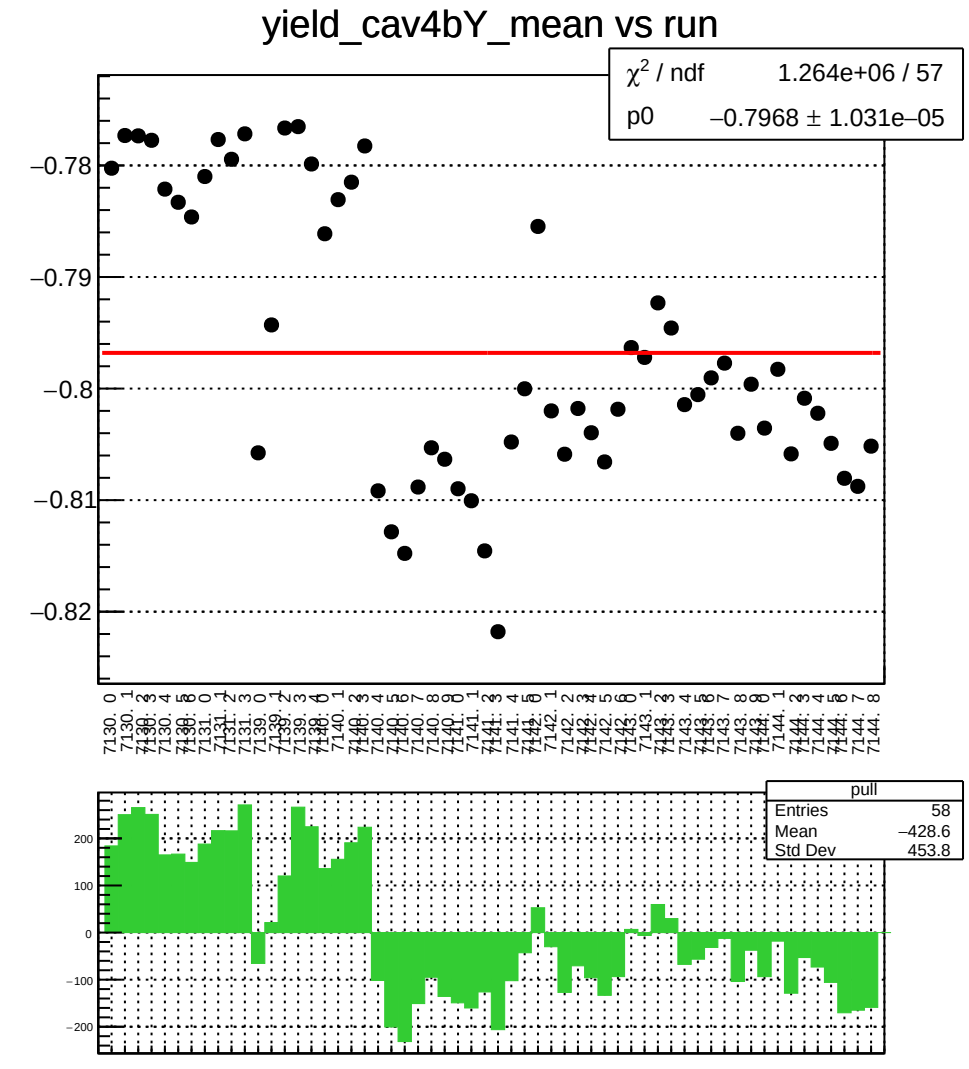

pull1D
Entries 58
Mean −0.05606
Std Dev 2.172
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

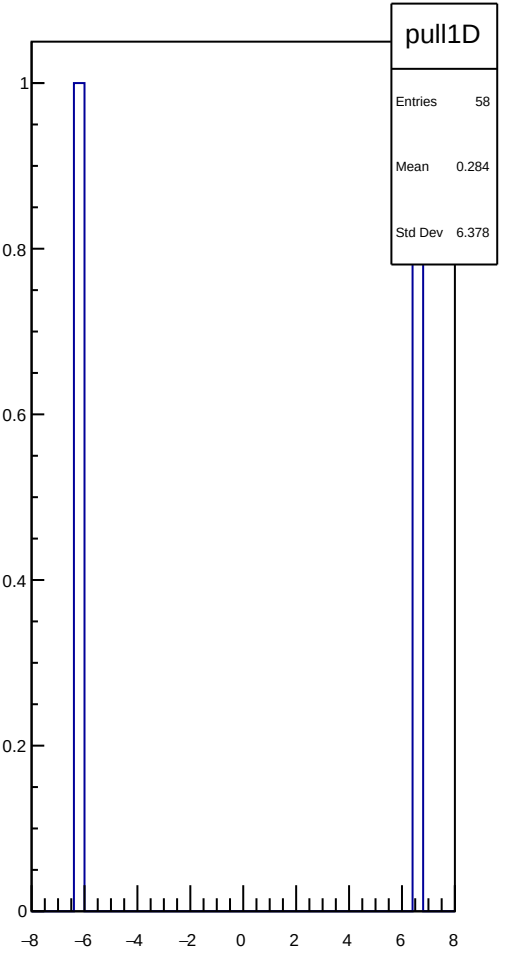

asym_bpm1i06WS_rms vs run
χ² / ndf 3614 / 57
p0 184.3 ± 0.1754
260
240
220
200
180
160
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

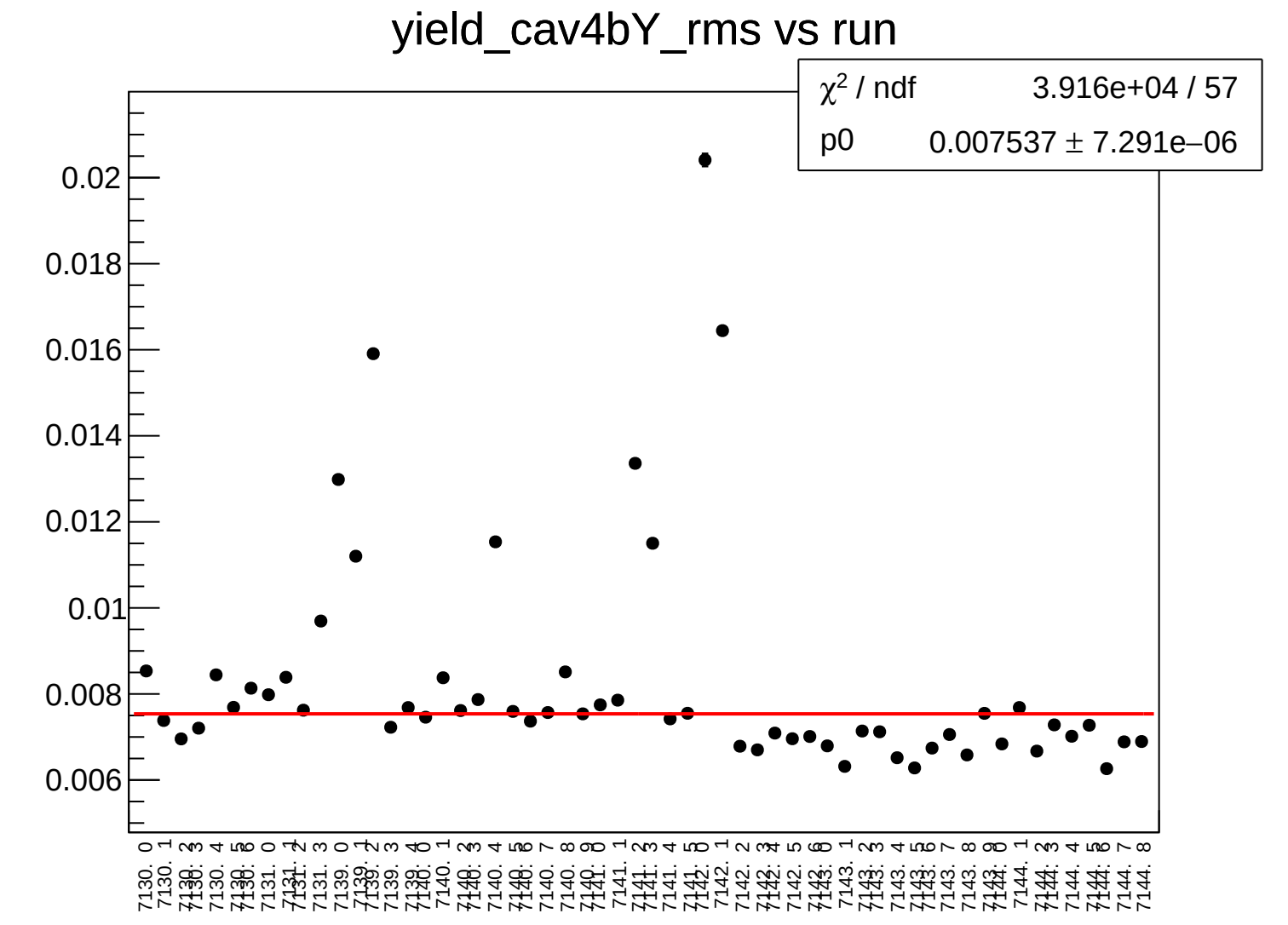

yield_cav4bX_mean vs run
χ² / ndf 9.603e+05 / 57
p0 −0.5565 ± 3.87e−05
pull
Entries 58
Mean 133.8
Std Dev 106.7

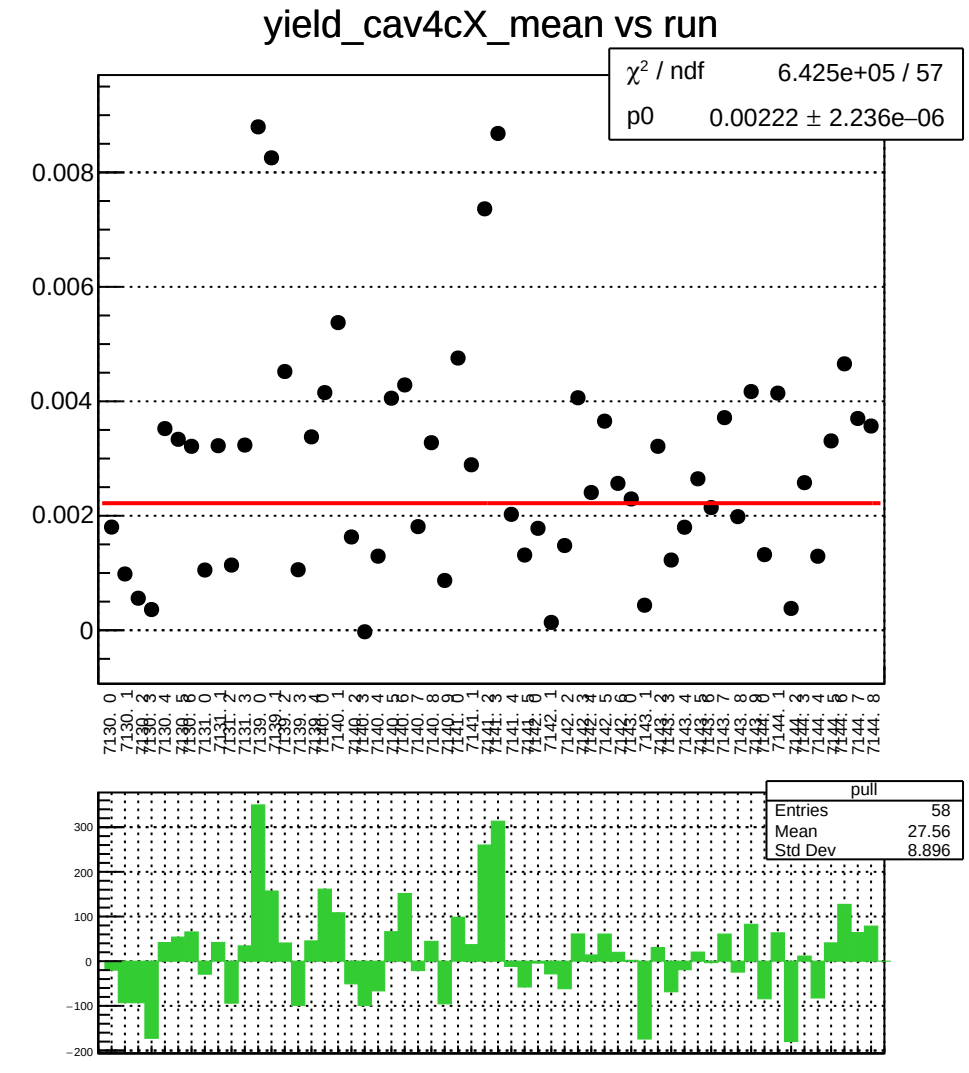

pull1D
Entries 58
Mean 1.601
Std Dev 1.473

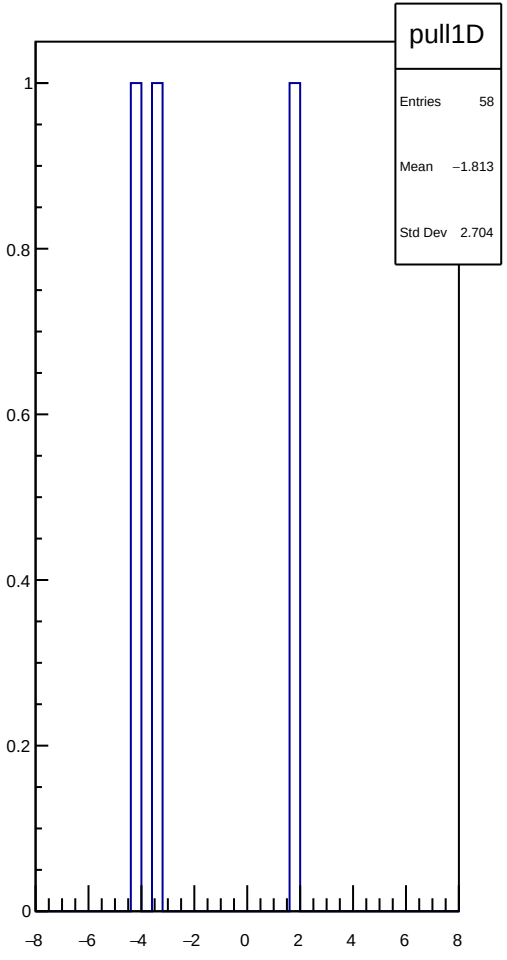

yield_cav4bX_rms vs run
χ² / ndf 1.808e+05 / 57
p0 0.02635 ± 2.736e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

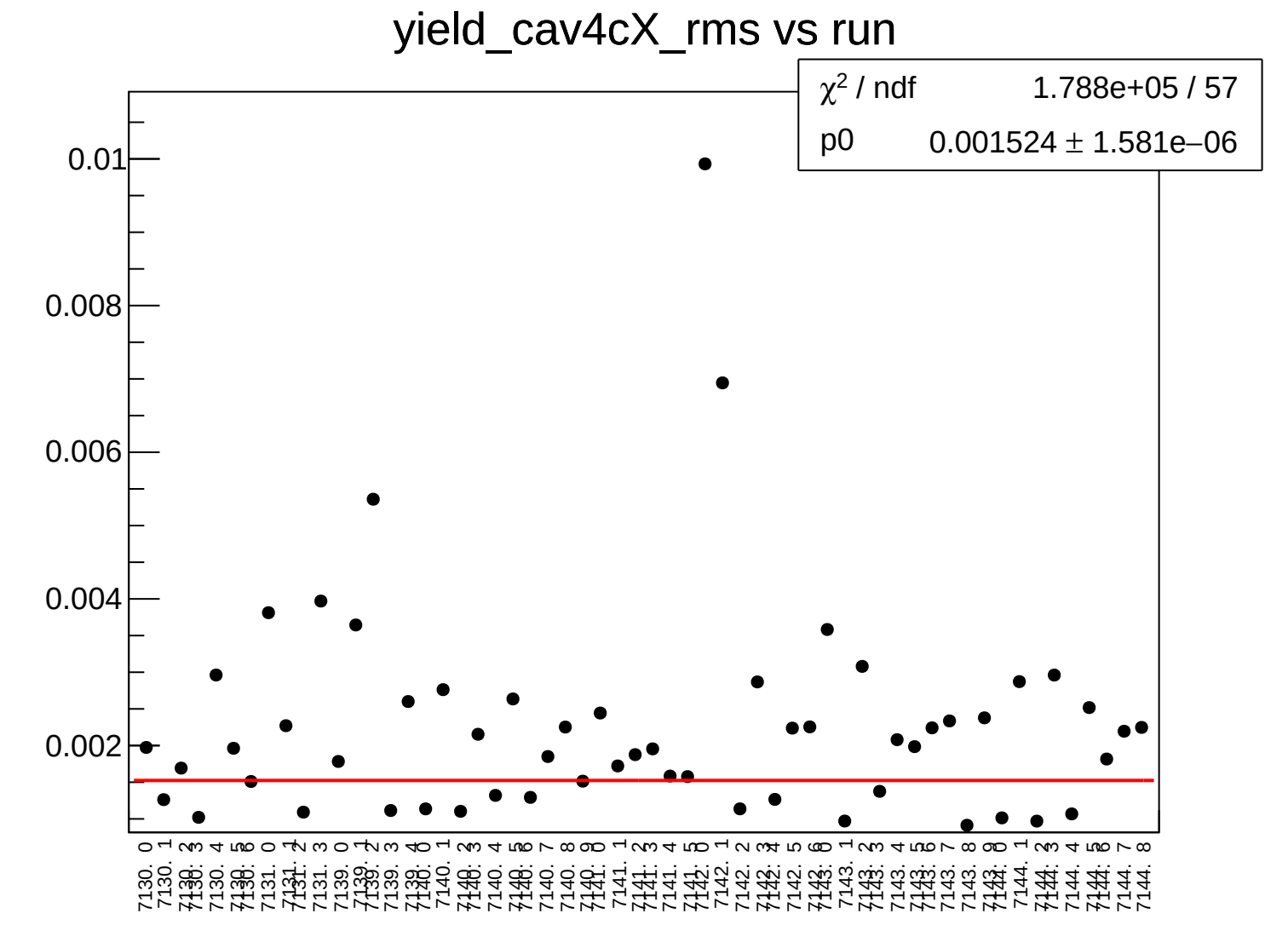

yield_cav4bY_mean vs run
χ² / ndf 1.264e+06 / 57
p0 −0.7968 ± 1.031e−05
−0.78
−0.79
−0.8
−0.81
−0.82
pull
Entries 58
Mean −428.6
Std Dev 453.8
200
100
0
−100
−200

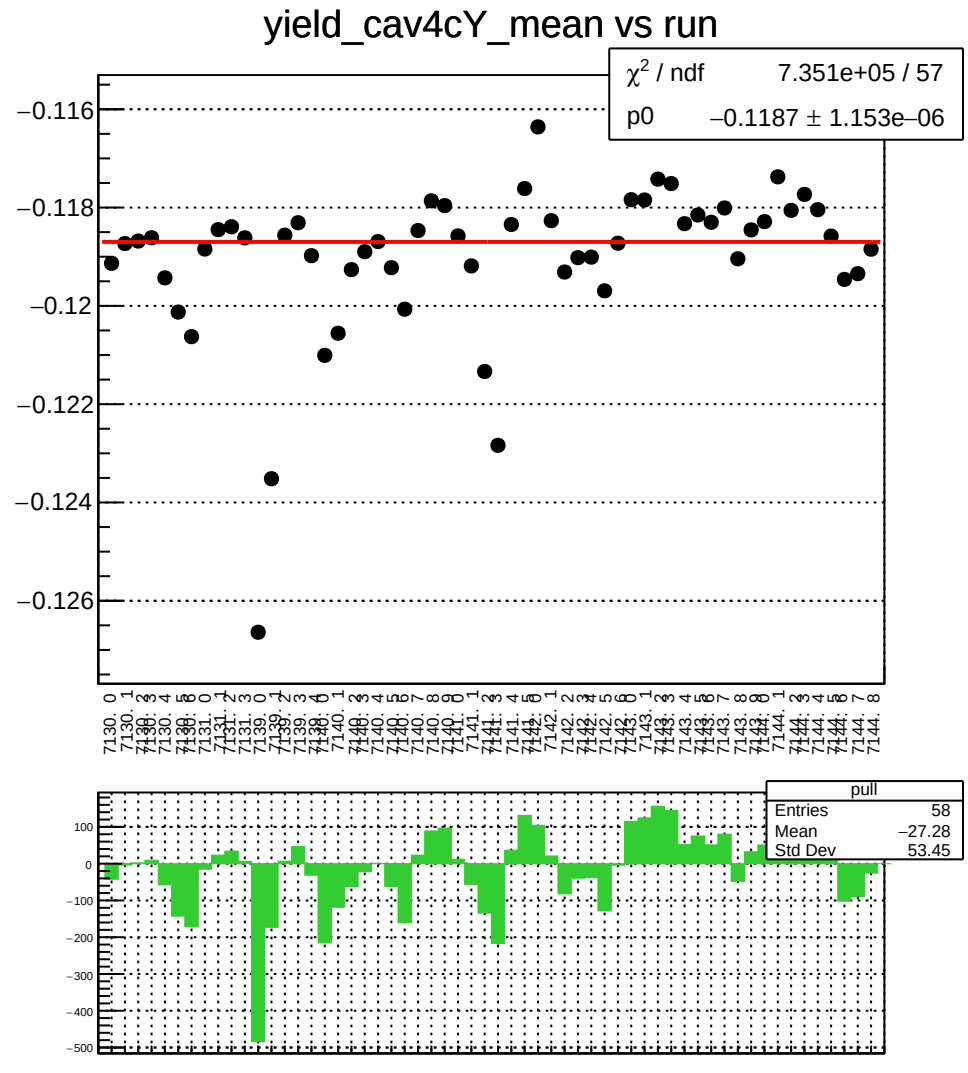

pull1D
Entries 58
Mean 0.284
Std Dev 6.378
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

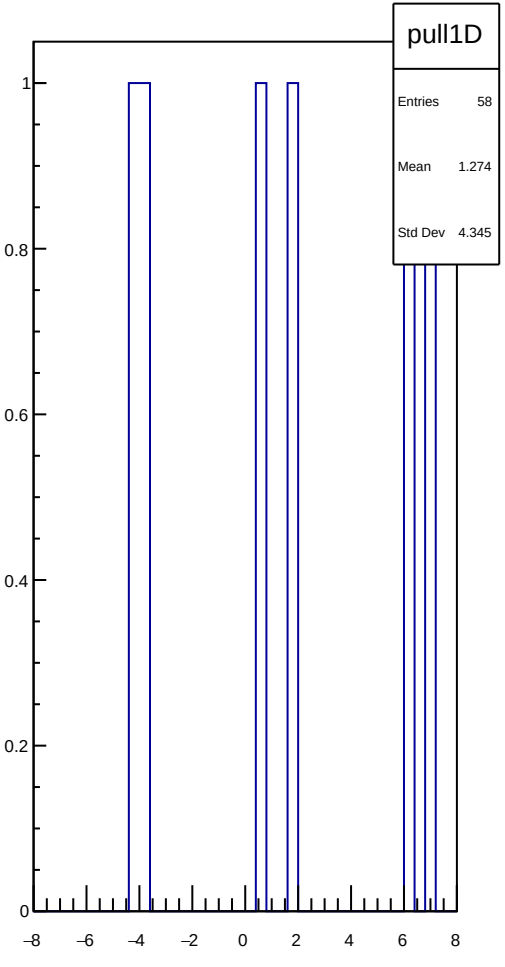

yield_cav4bY_rms vs run
χ² / ndf 3.916e+04 / 57
p0 0.007537 ± 7.291e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

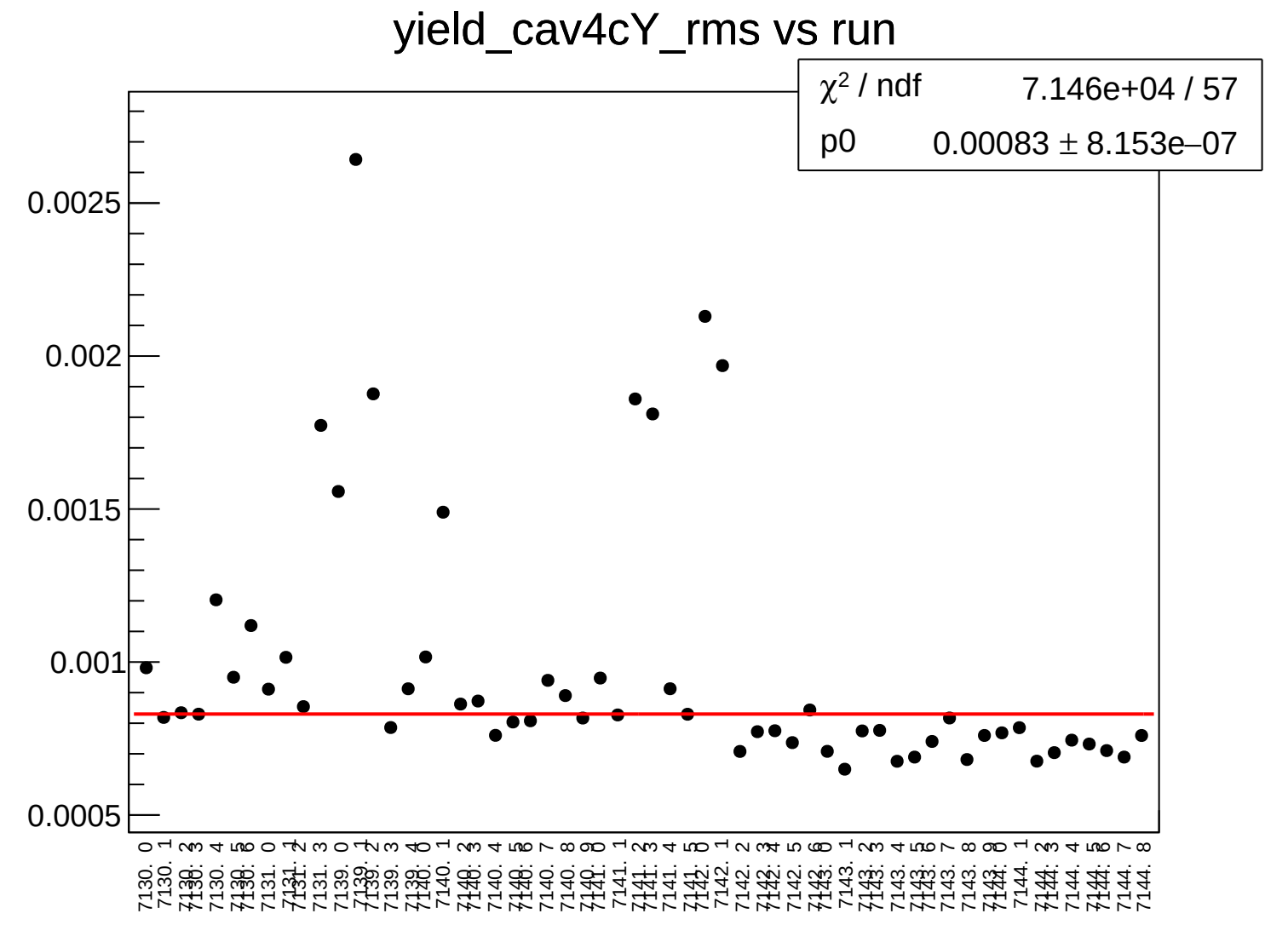

yield_cav4cX_mean vs run
χ² / ndf 6.425e+05 / 57
p0 0.00222 ± 2.236e−06
0.008
0.006
0.004
0.002
0
pull
Entries 58
Mean 27.56
Std Dev 8.896
300
200
100
0
−100
−200

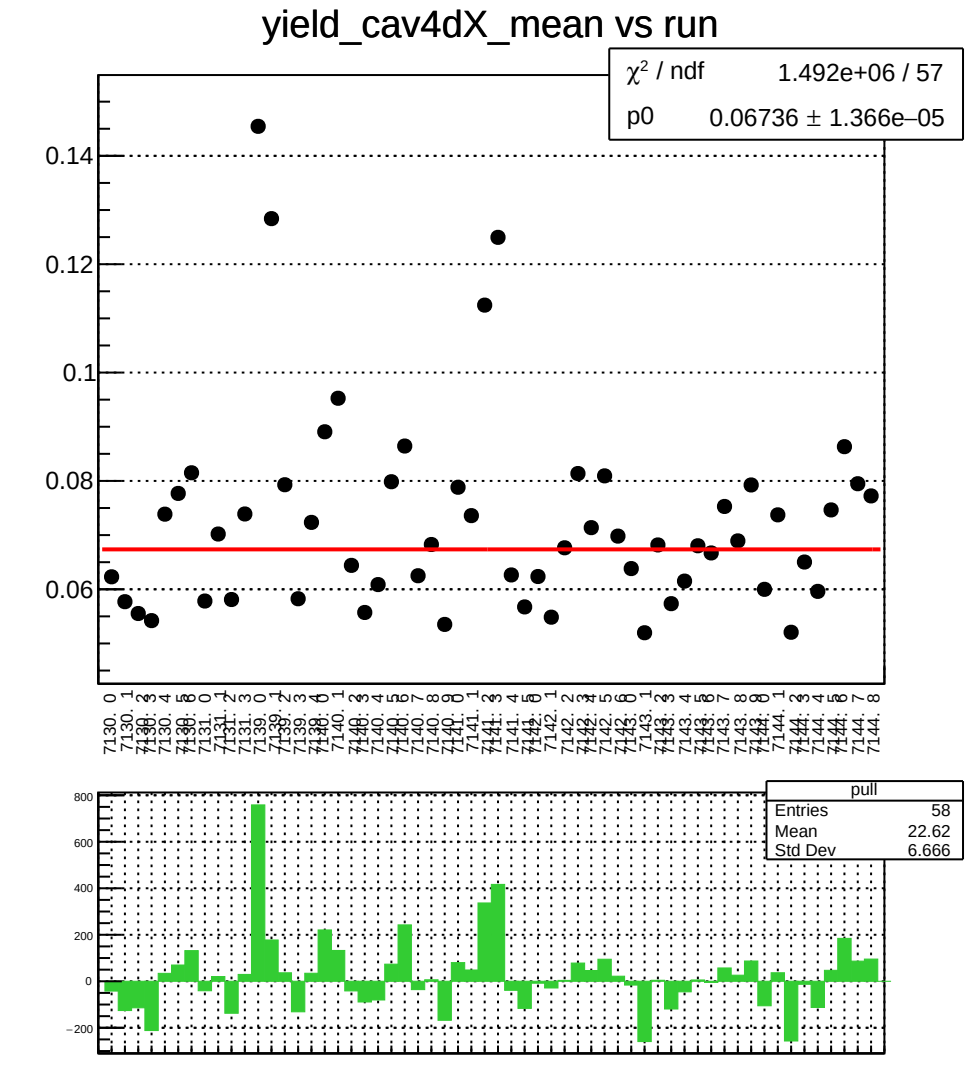

pull1D
Entries 58
Mean −1.813
Std Dev 2.704
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

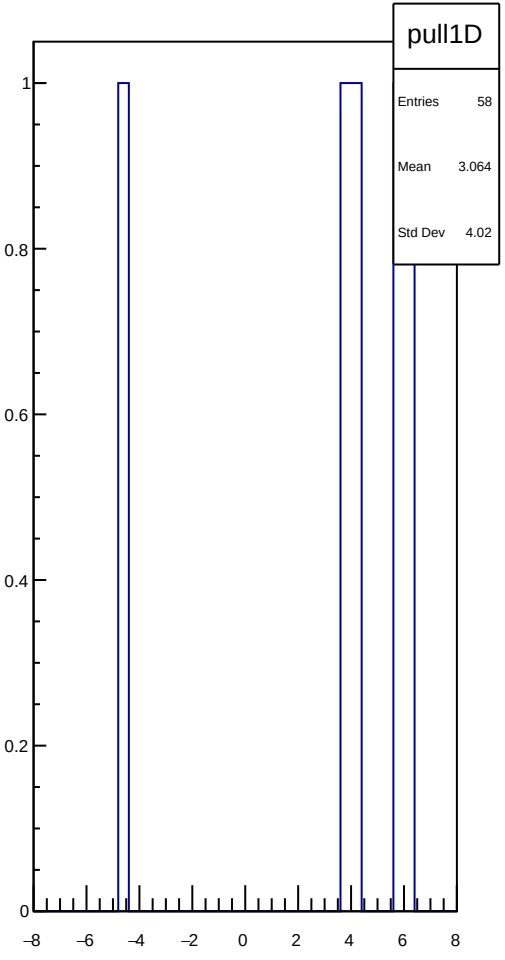

yield_cav4cX_rms vs run
χ² / ndf 1.788e+05 / 57
p0 0.001524 ± 1.581e−06
0.01
0.008
0.006
0.004
0.002

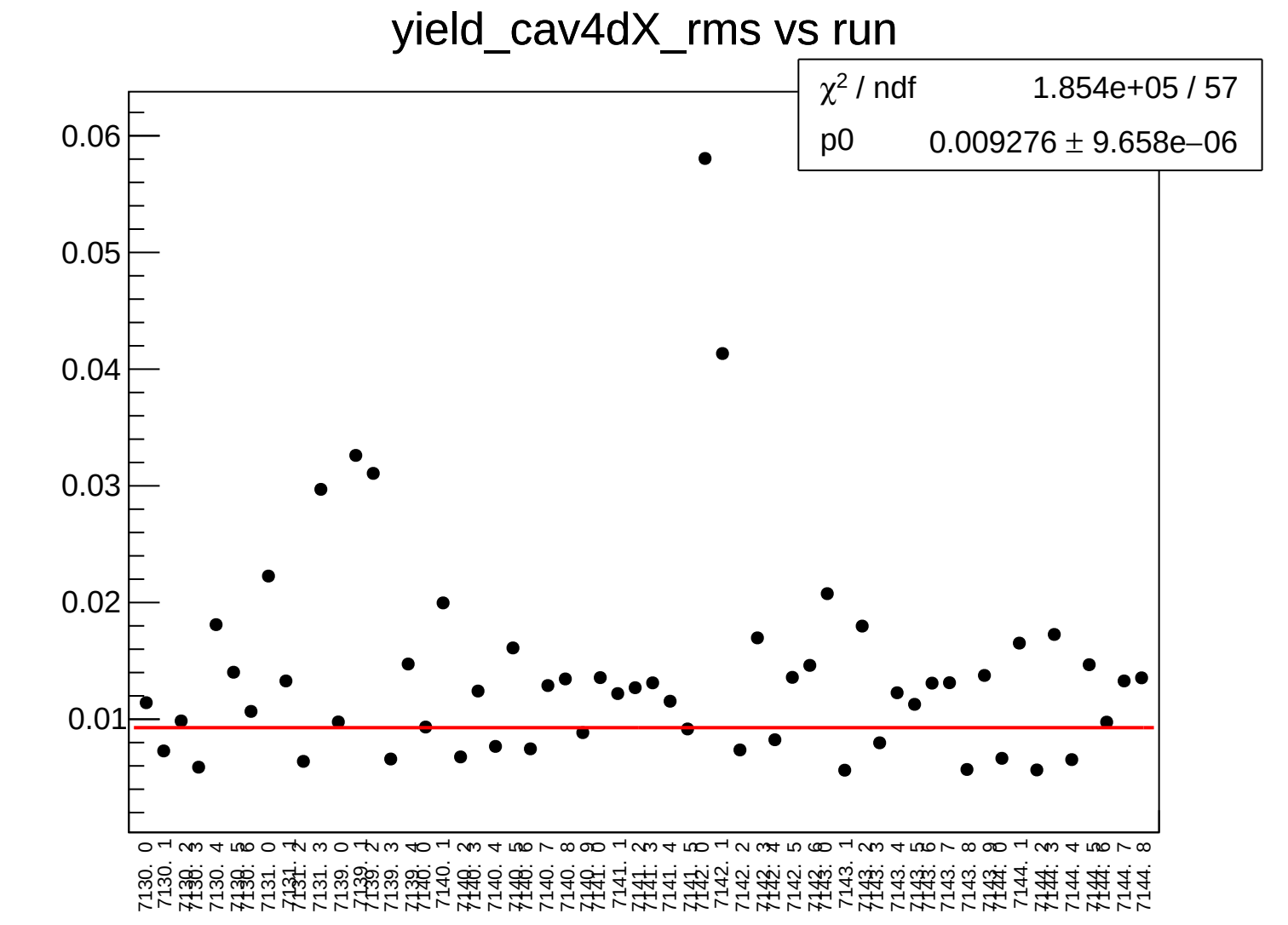

yield_cav4cY_mean vs run
χ² / ndf 7.351e+05 / 57
p0 −0.1187 ± 1.153e−06
−0.116
−0.118
−0.12
−0.122
−0.124
−0.126
pull
Entries 58
Mean −27.28
Std Dev 53.45
100
0
−100
−200
−300
−400
−500

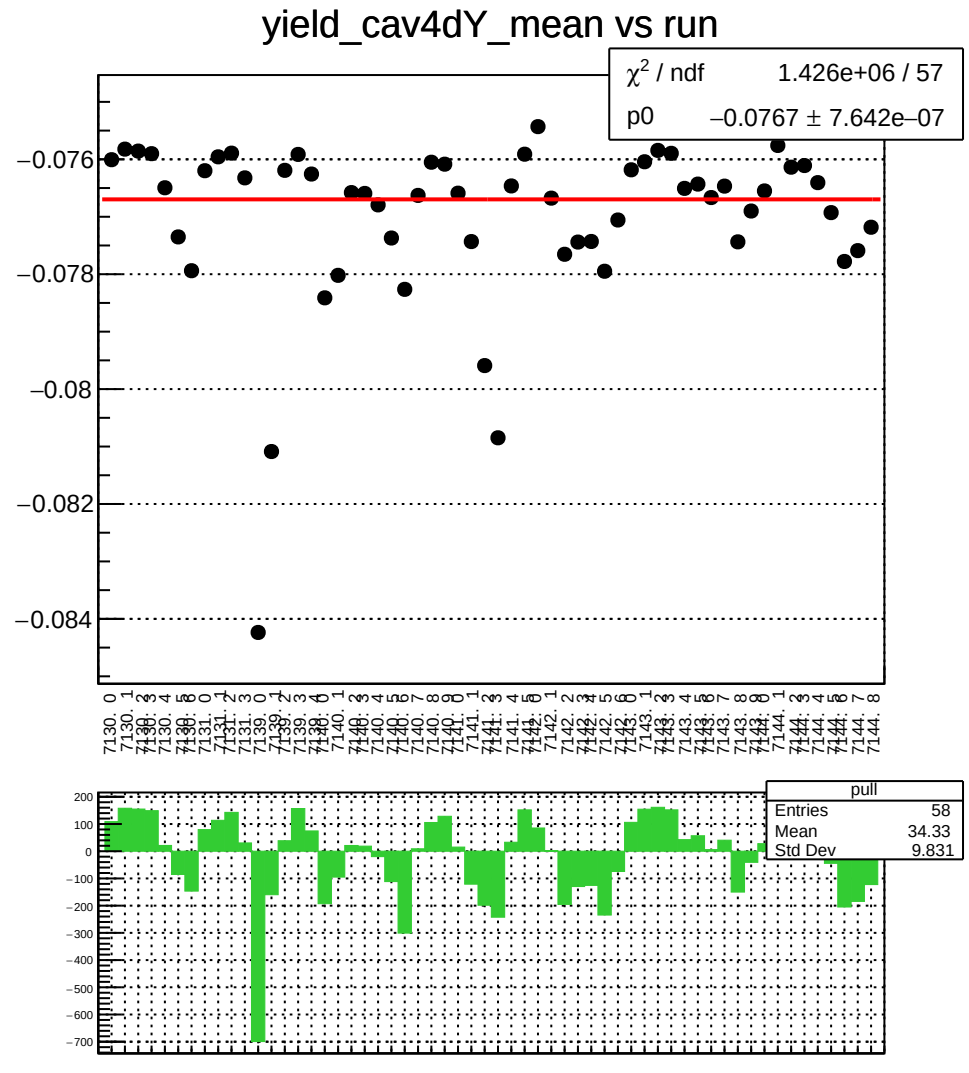

pull1D
Entries 58
Mean 1.274
Std Dev 4.345
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

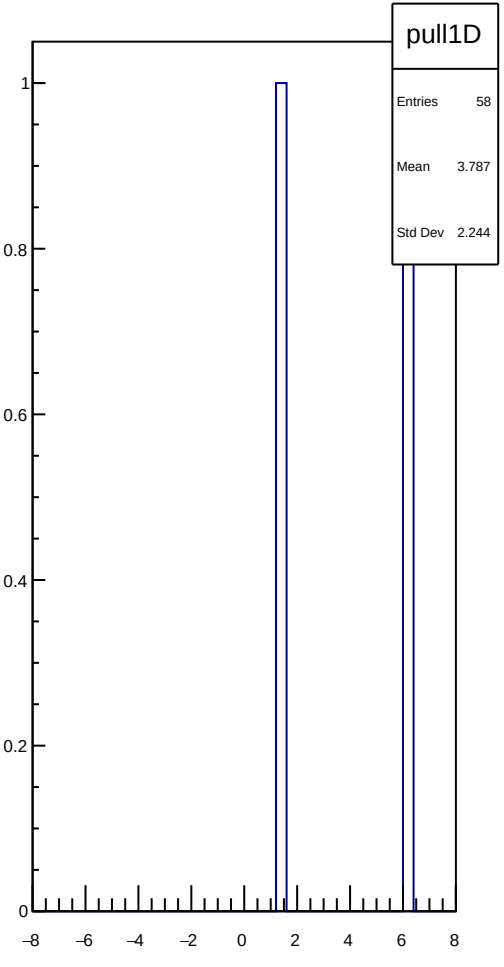

yield_cav4cY_rms vs run
χ² / ndf 7.146e+04 / 57
p0 0.00083 ± 8.153e–07
0.0025
0.002
0.0015
0.001
0.0005

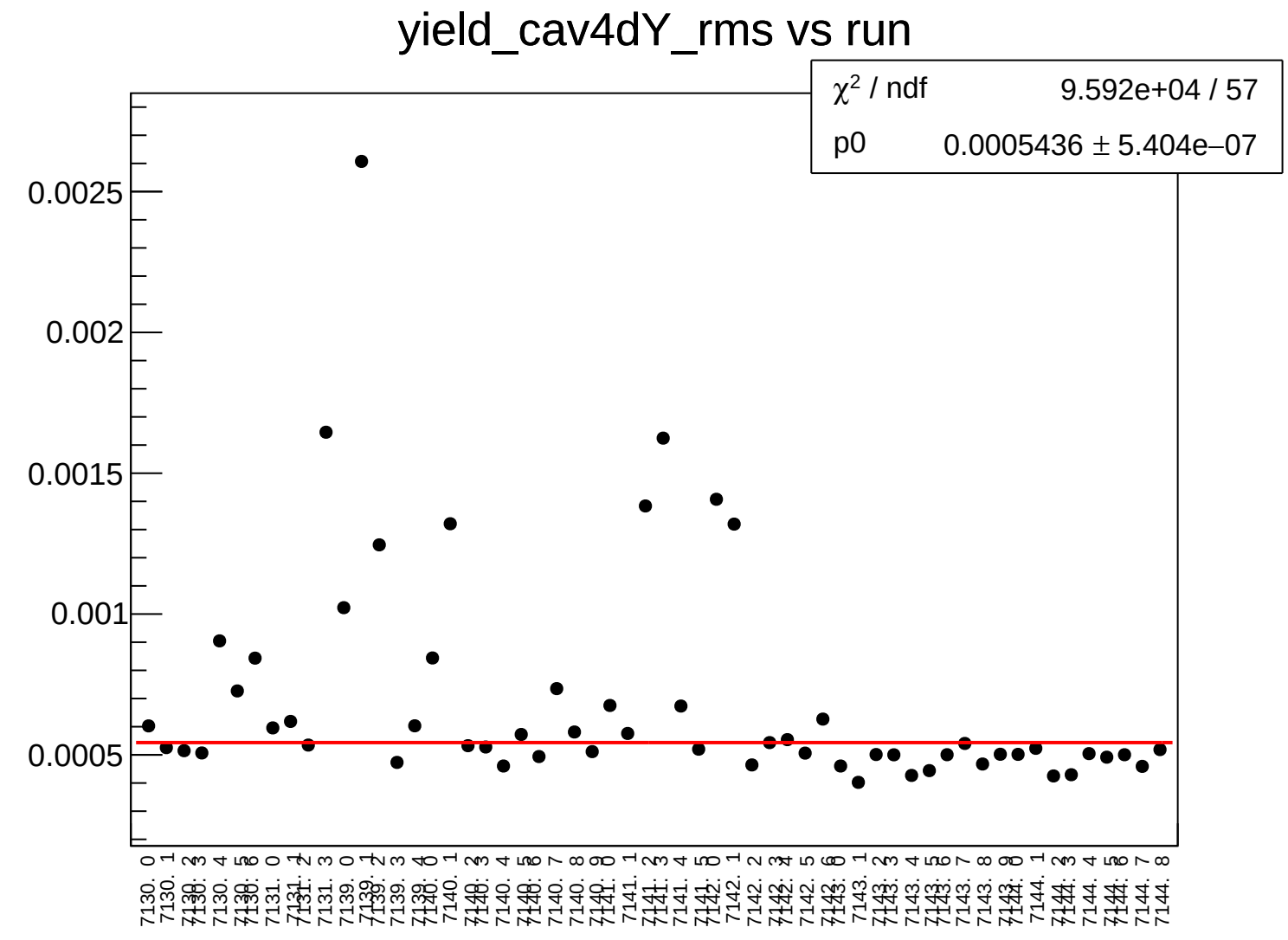

yield_cav4dX_mean vs run
χ² / ndf 1.492e+06 / 57
p0 0.06736 ± 1.366e−05
0.14
0.12
0.1
0.08
0.06
pull
Entries 58
Mean 22.62
Std Dev 6.666
800
600
400
200
0
−200

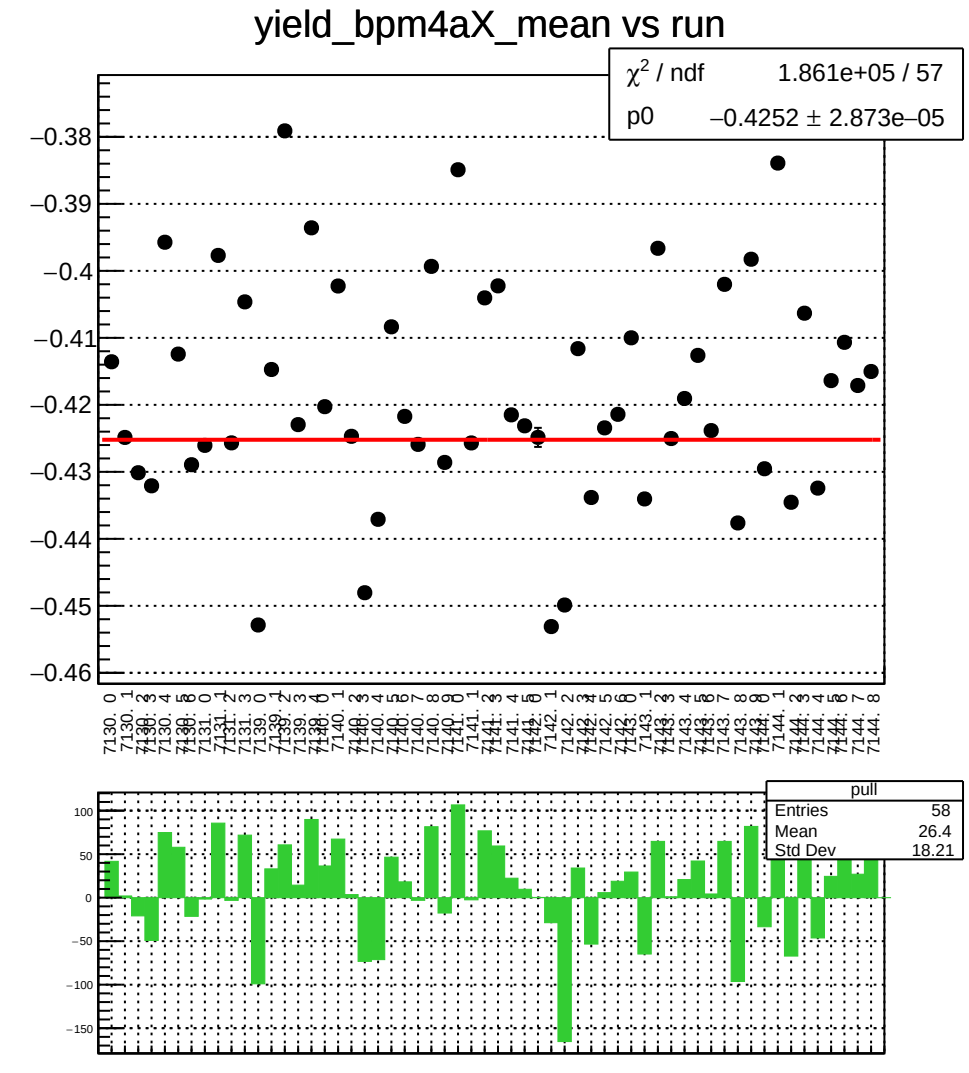

pull1D
Entries 58
Mean 3.064
Std Dev 4.02
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

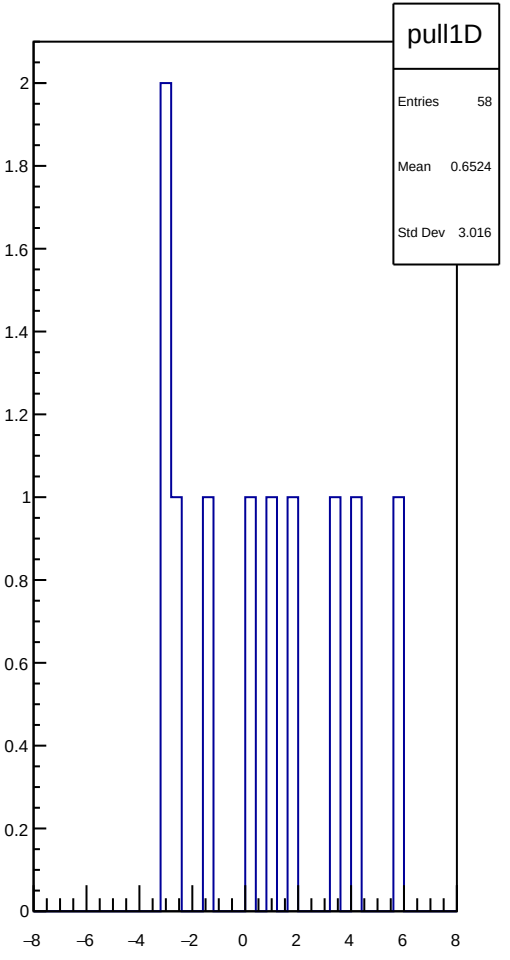

yield_cav4dX_rms vs run
χ² / ndf 1.854e+05 / 57
p0 0.009276 ± 9.658e−06
0.06
0.05
0.04
0.03
0.02
0.01

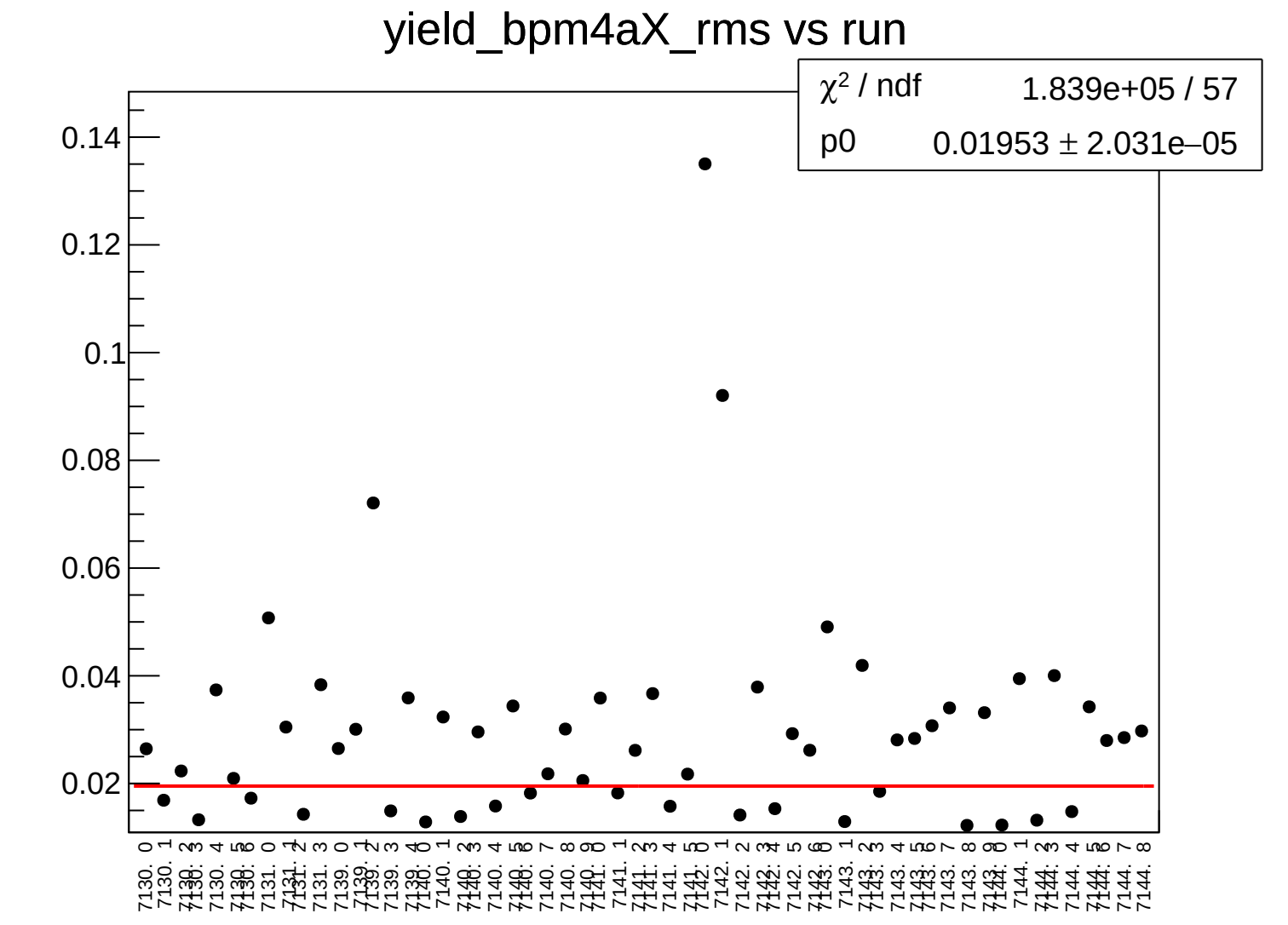

yield_cav4dY_mean vs run
χ² / ndf 1.426e+06 / 57
p0 −0.0767 ± 7.642e−07
−0.076
−0.078
−0.08
−0.082
−0.084
pull
Entries 58
Mean 34.33
Std Dev 9.831
200
100
0
−100
−200
−300
−400
−500
−600
−700

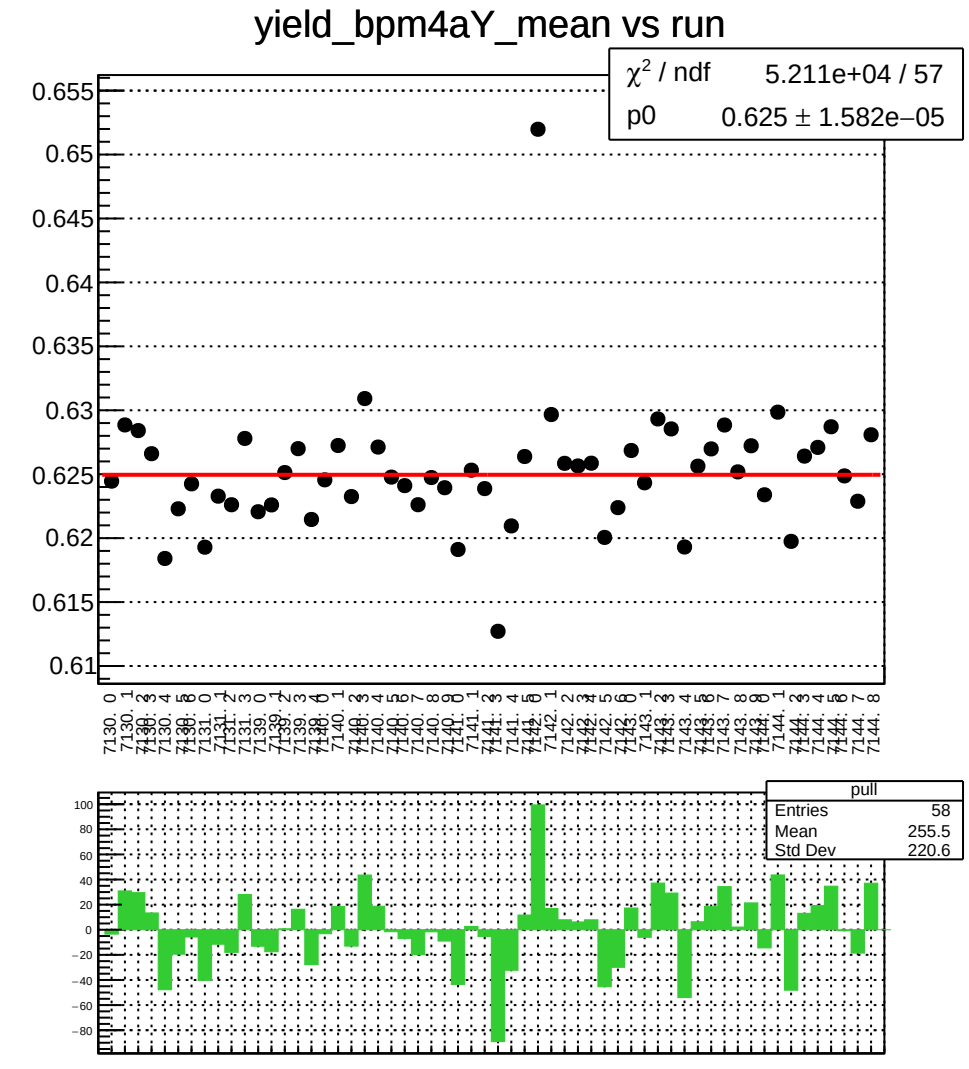

pull1D
Entries 58
Mean 3.787
Std Dev 2.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

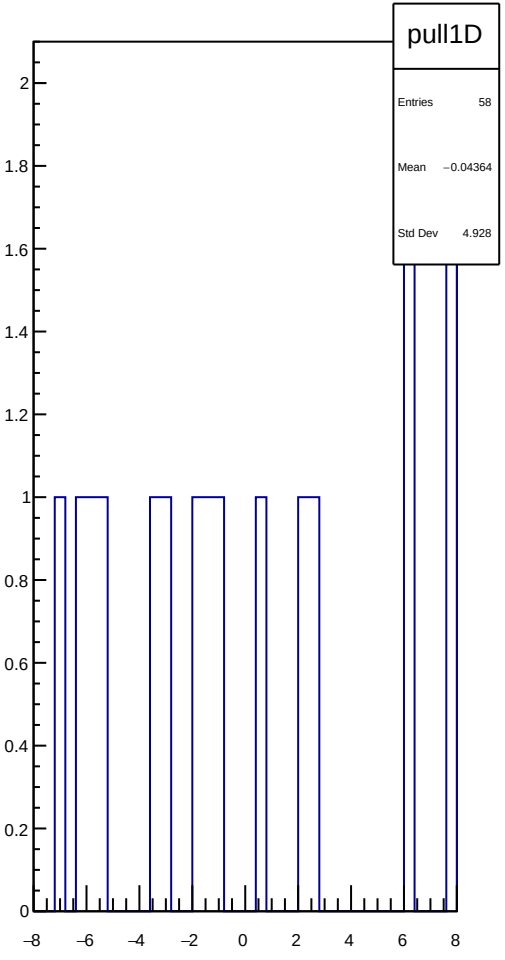

yield_cav4dY_rms vs run
χ² / ndf 9.592e+04 / 57
p0 0.0005436 ± 5.404e−07
0.0025
0.002
0.0015
0.001
0.0005

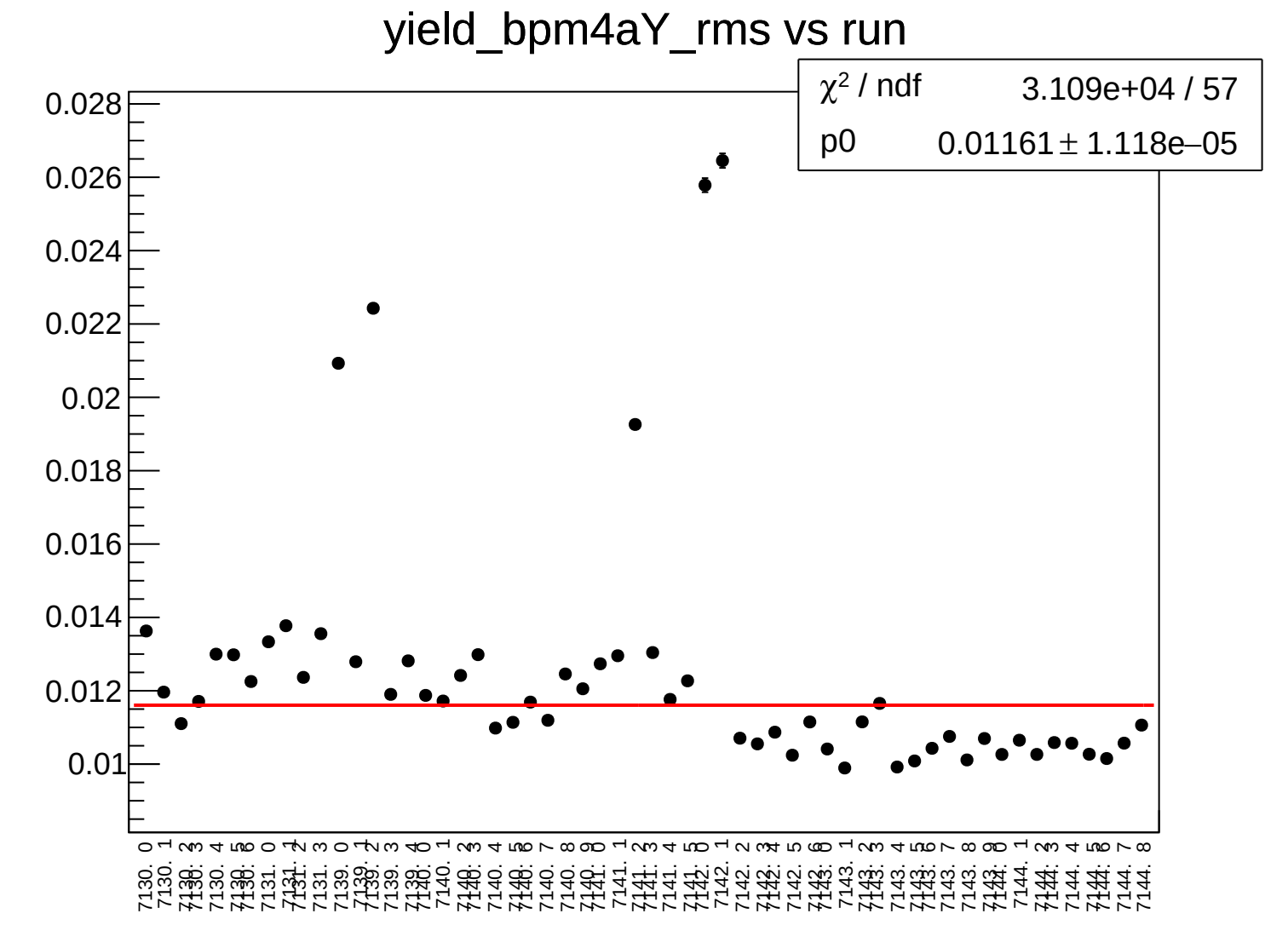

yield_bpm4aX_mean vs run
χ^2 / ndf 1.861e+05 / 57
p0 −0.4252 ± 2.873e−05
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 58
Mean 26.4
Std Dev 18.21
100
50
0
−50
−100
−150

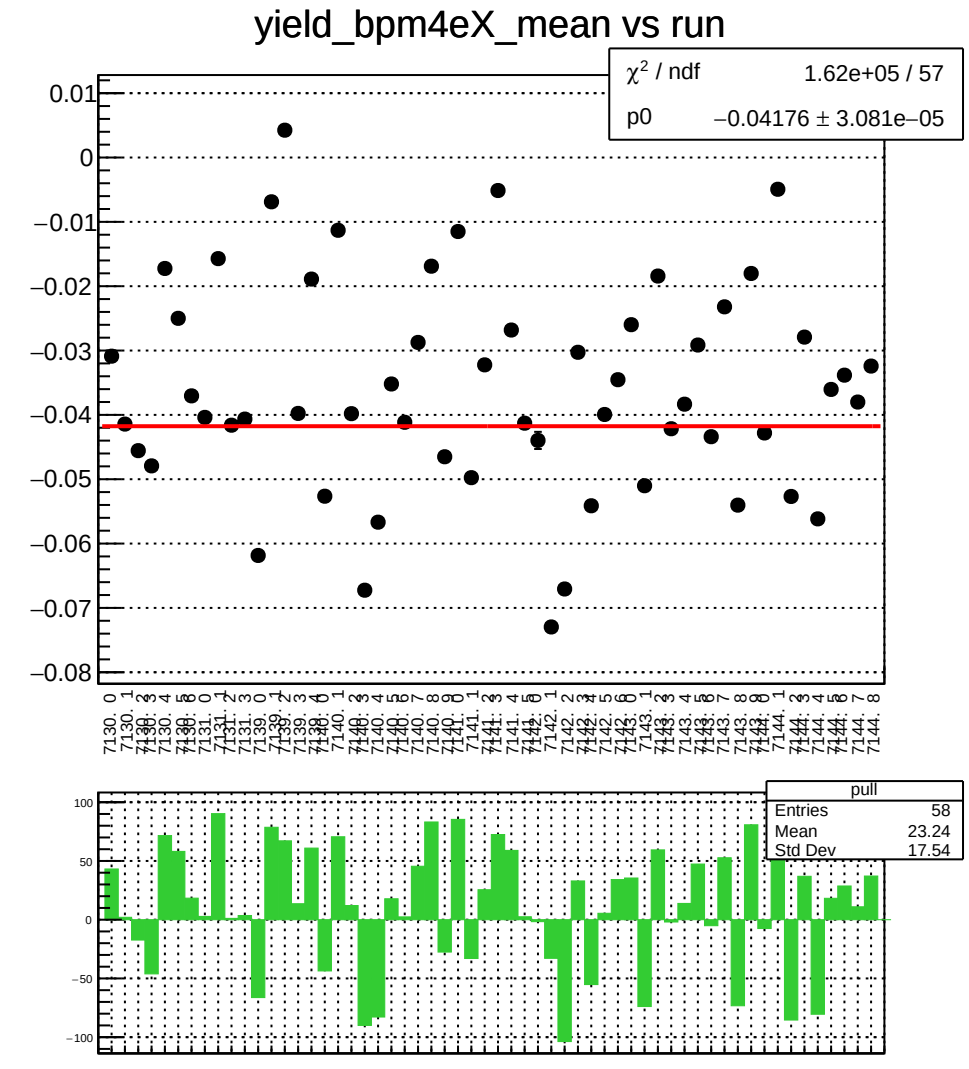

pull1D
Entries 58
Mean 0.6524
Std Dev 3.016
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

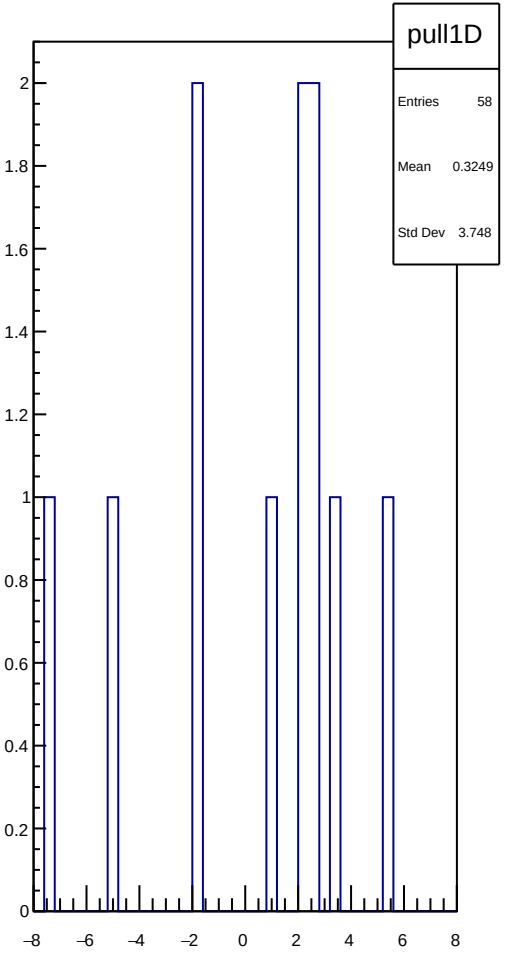

yield_bpm4aX_rms vs run
χ² / ndf 1.839e+05 / 57
p0 0.01953 ± 2.031e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

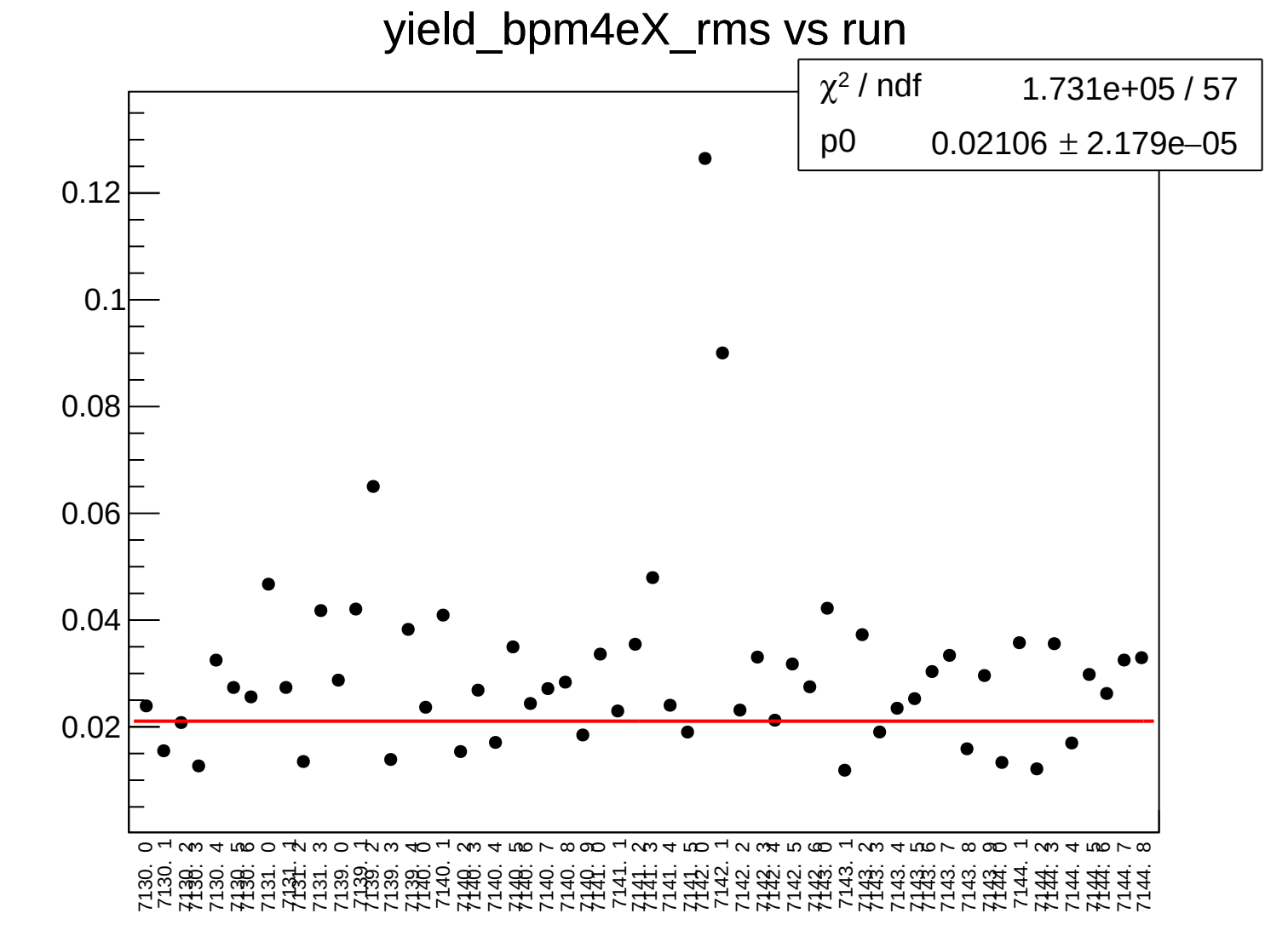

yield_bpm4aY_mean vs run
χ² / ndf 5.211e+04 / 57
p0 0.625 ± 1.582e−05
pull
Entries 58
Mean 255.5
Std Dev 220.6

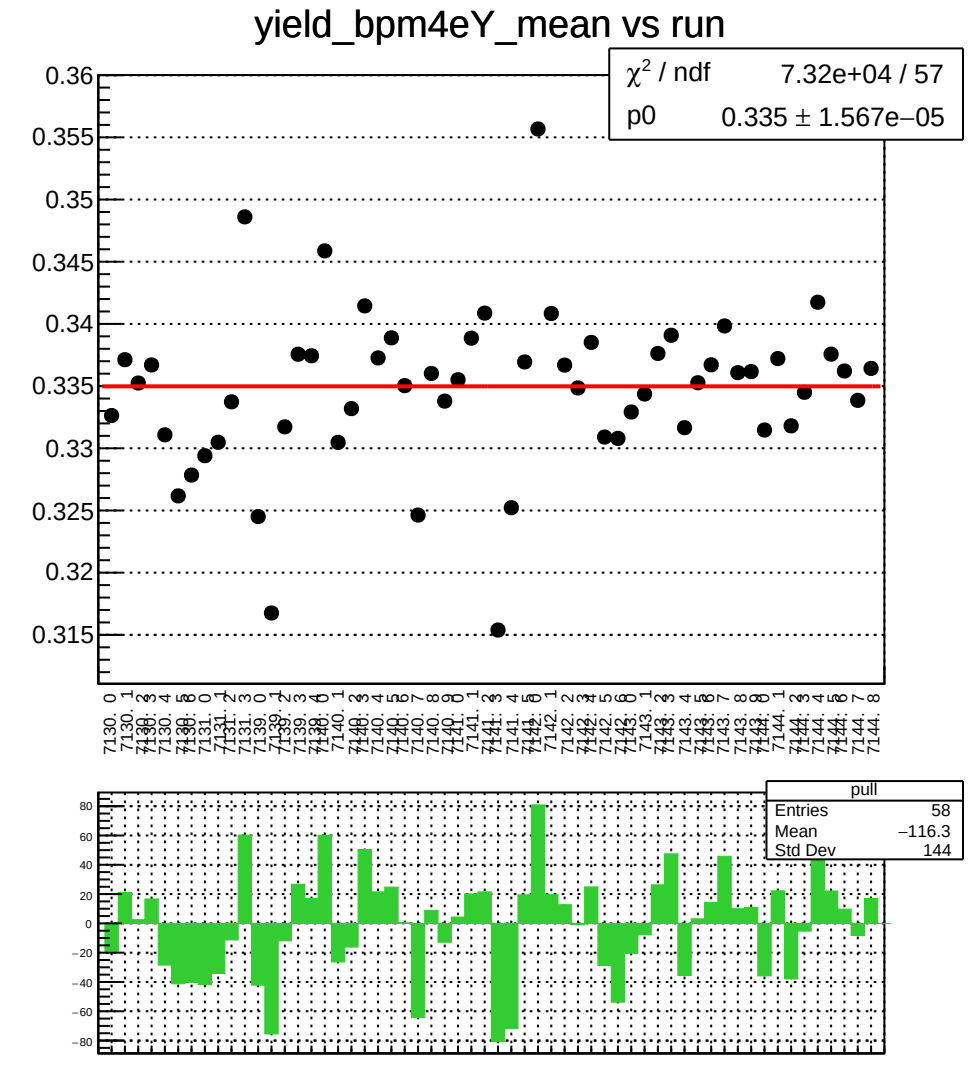

pull1D
Entries 58
Mean −0.04364
Std Dev 4.928

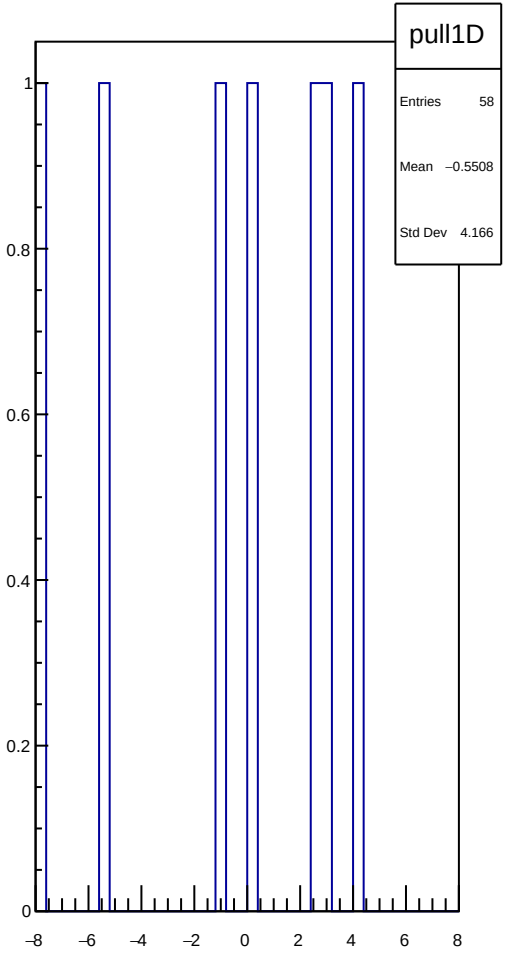

yield_bpm4aY_rms vs run
χ² / ndf 3.109e+04 / 57
p0 0.01161 ± 1.118e–05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

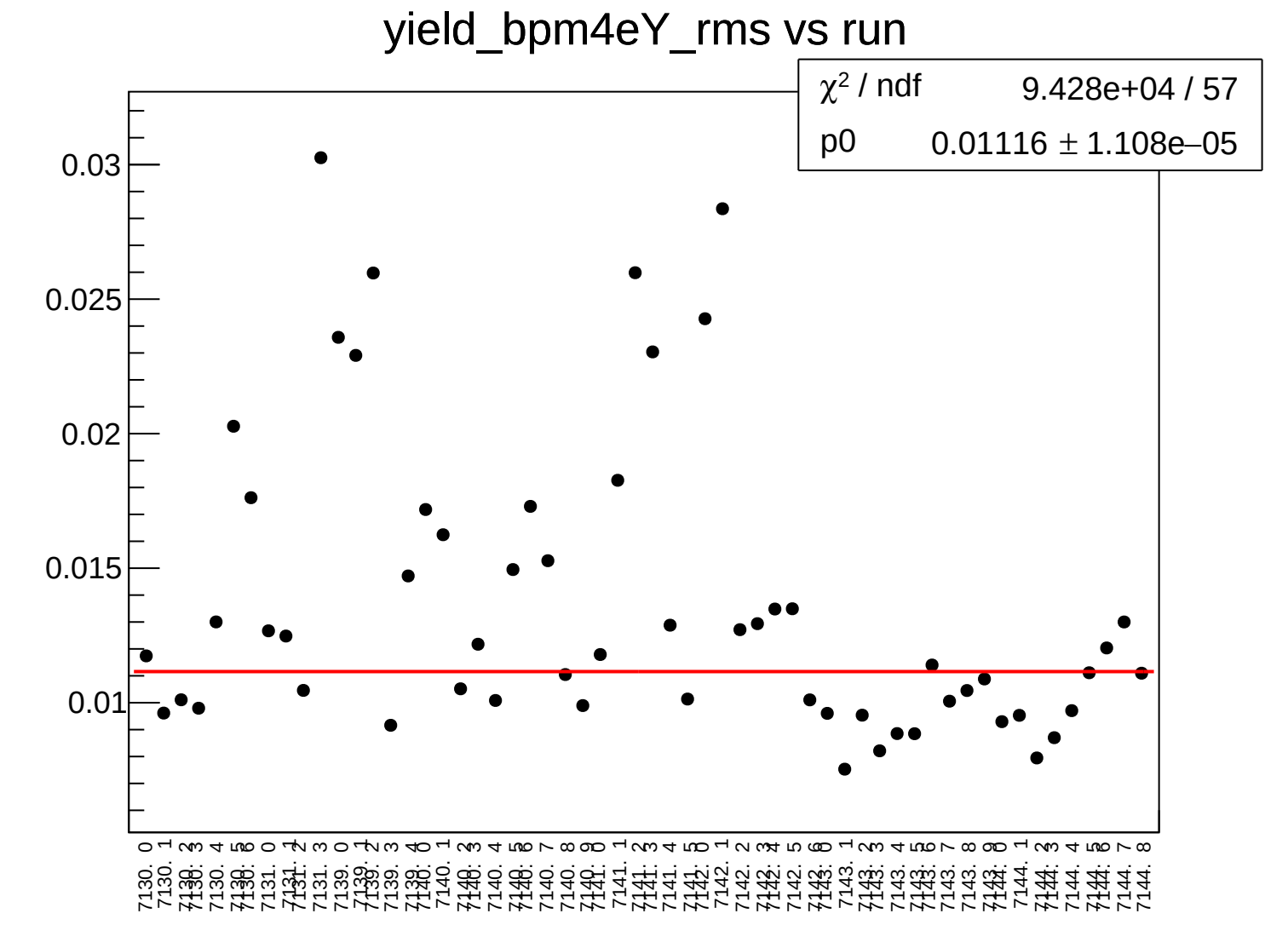

yield_bpm4eX_mean vs run
χ² / ndf 1.62e+05 / 57
p0 −0.04176 ± 3.081e−05
pull
Entries 58
Mean 23.24
Std Dev 17.54

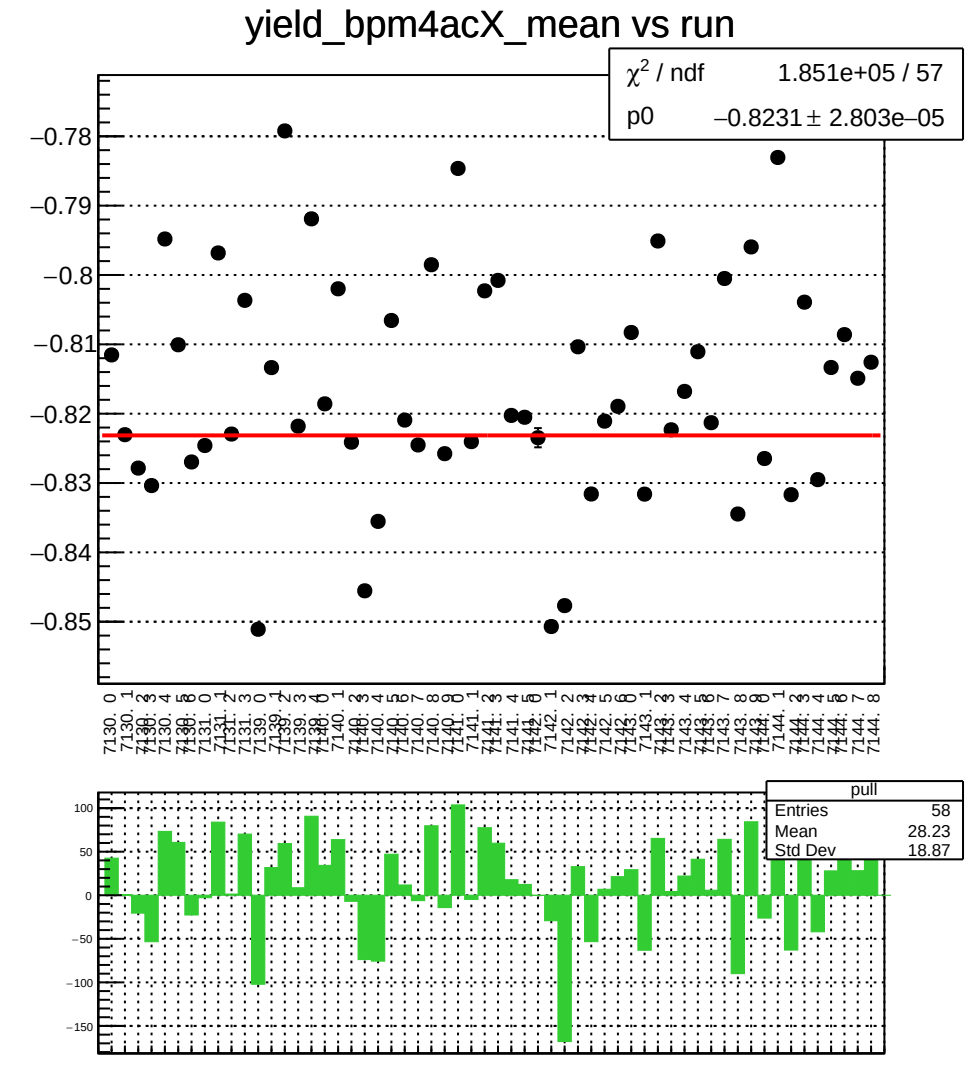

pull1D
Entries 58
Mean 0.3249
Std Dev 3.748

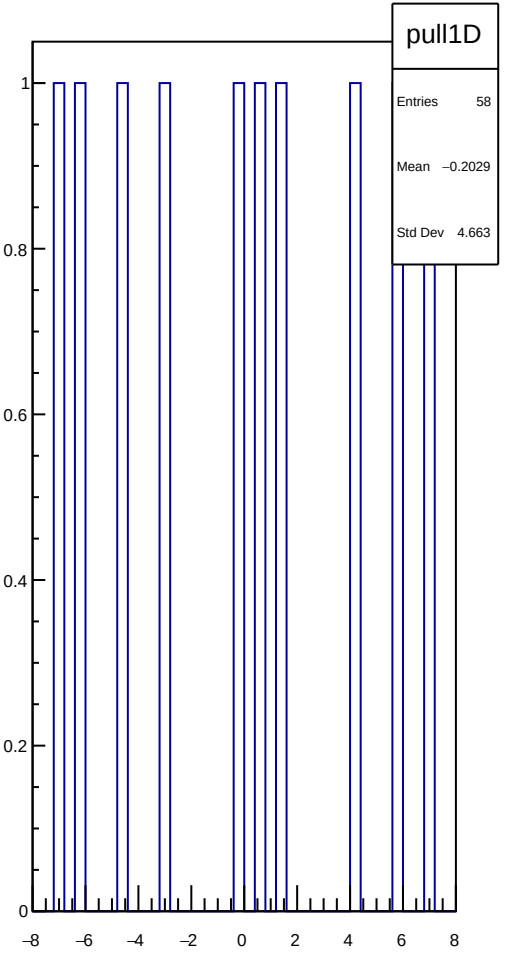

yield_bpm4eX_rms vs run
χ² / ndf 1.731e+05 / 57
p0 0.02106 ± 2.179e–05
0.12
0.1
0.08
0.06
0.04
0.02

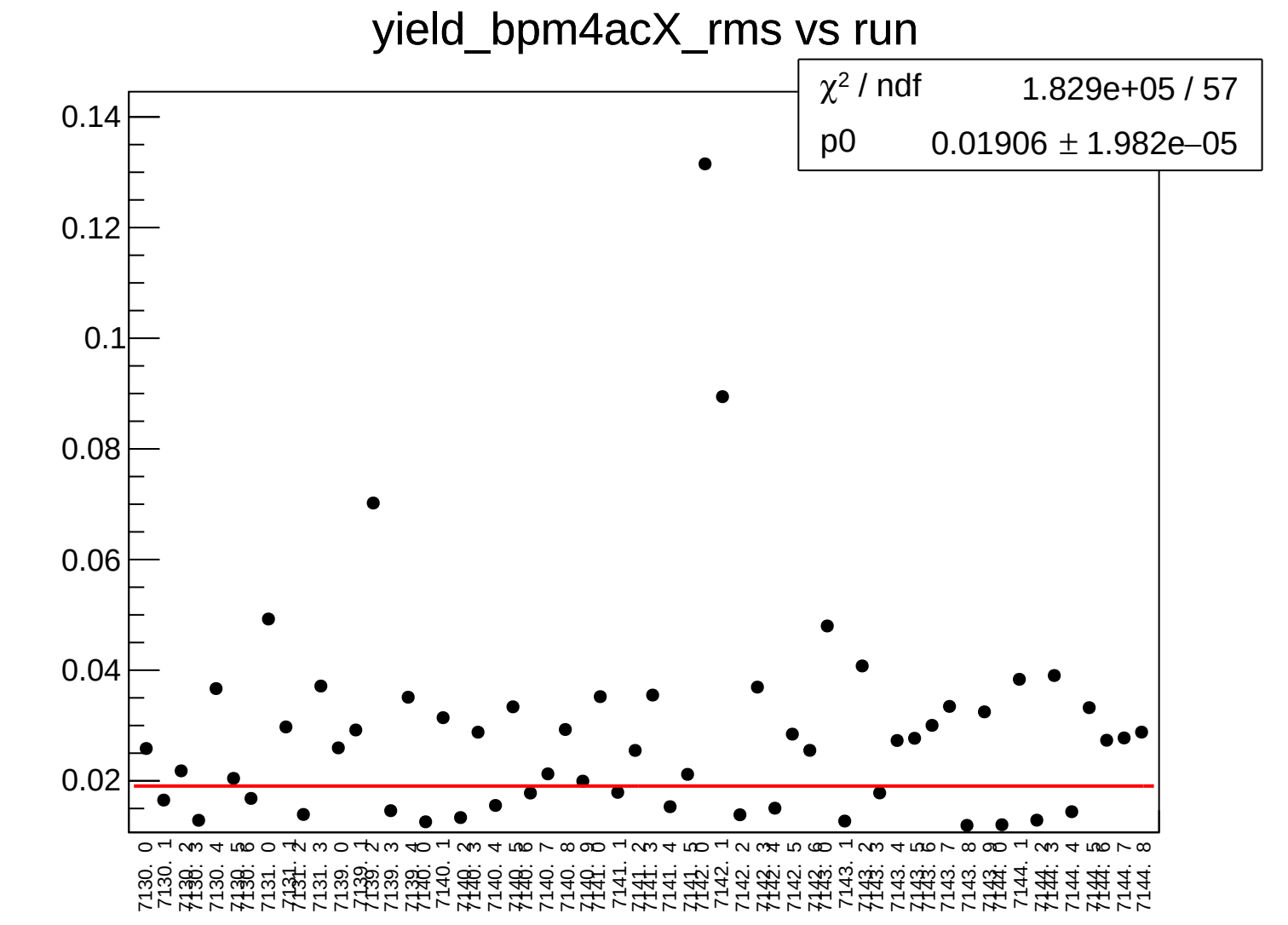

yield_bpm4eY_mean vs run
χ² / ndf 7.32e+04 / 57
p0 0.335 ± 1.567e−05
pull
Entries 58
Mean −116.3
Std Dev 144

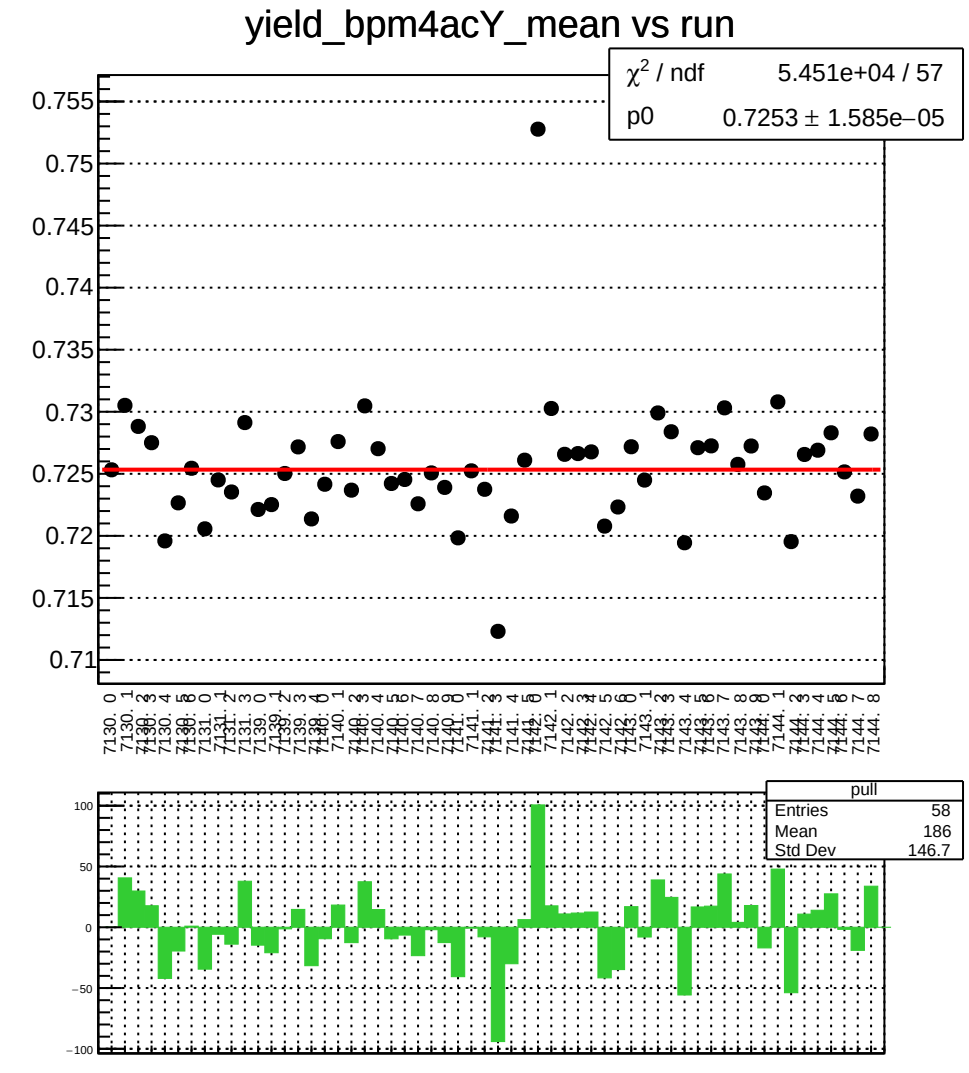

pull1D
Entries 58
Mean −0.5508
Std Dev 4.166

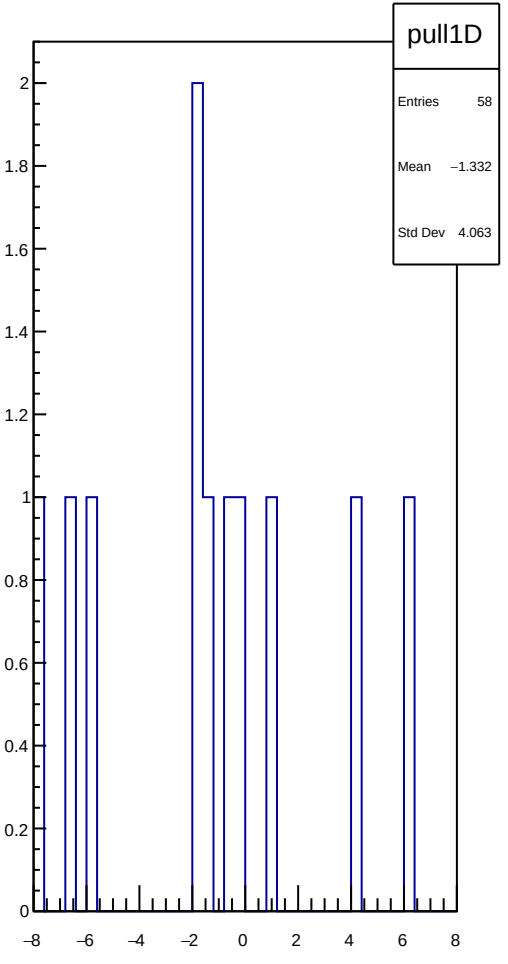

yield_bpm4eY_rms vs run
χ² / ndf 9.428e+04 / 57
p0 0.01116 ± 1.108e–05
0.03
0.025
0.02
0.015
0.01

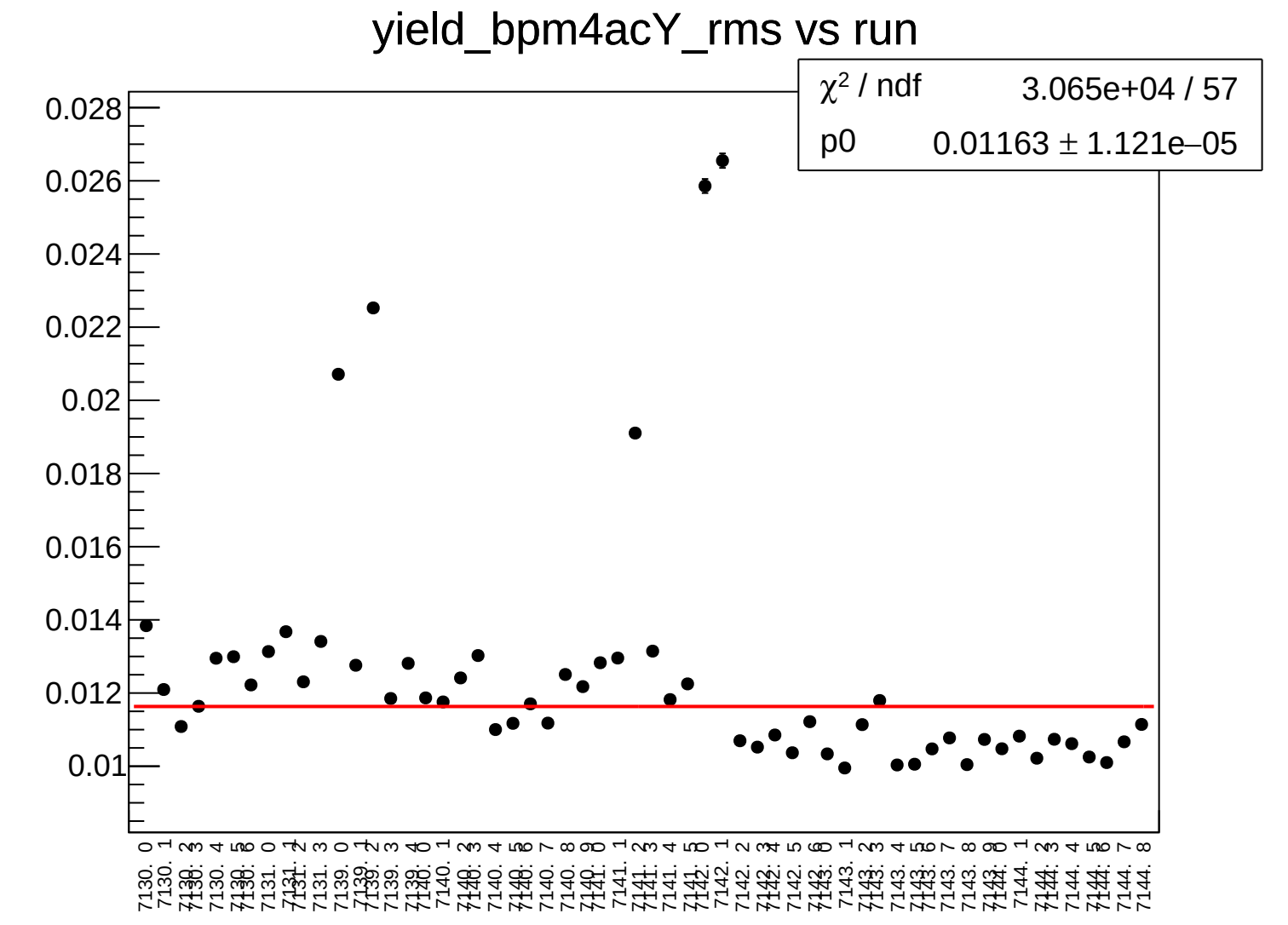

yield_bpm4acX_mean vs run
χ² / ndf 1.851e+05 / 57
p0 −0.8231 ± 2.803e−05
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
−0.85
pull
Entries 58
Mean 28.23
Std Dev 18.87
100
50
0
−50
−100
−150

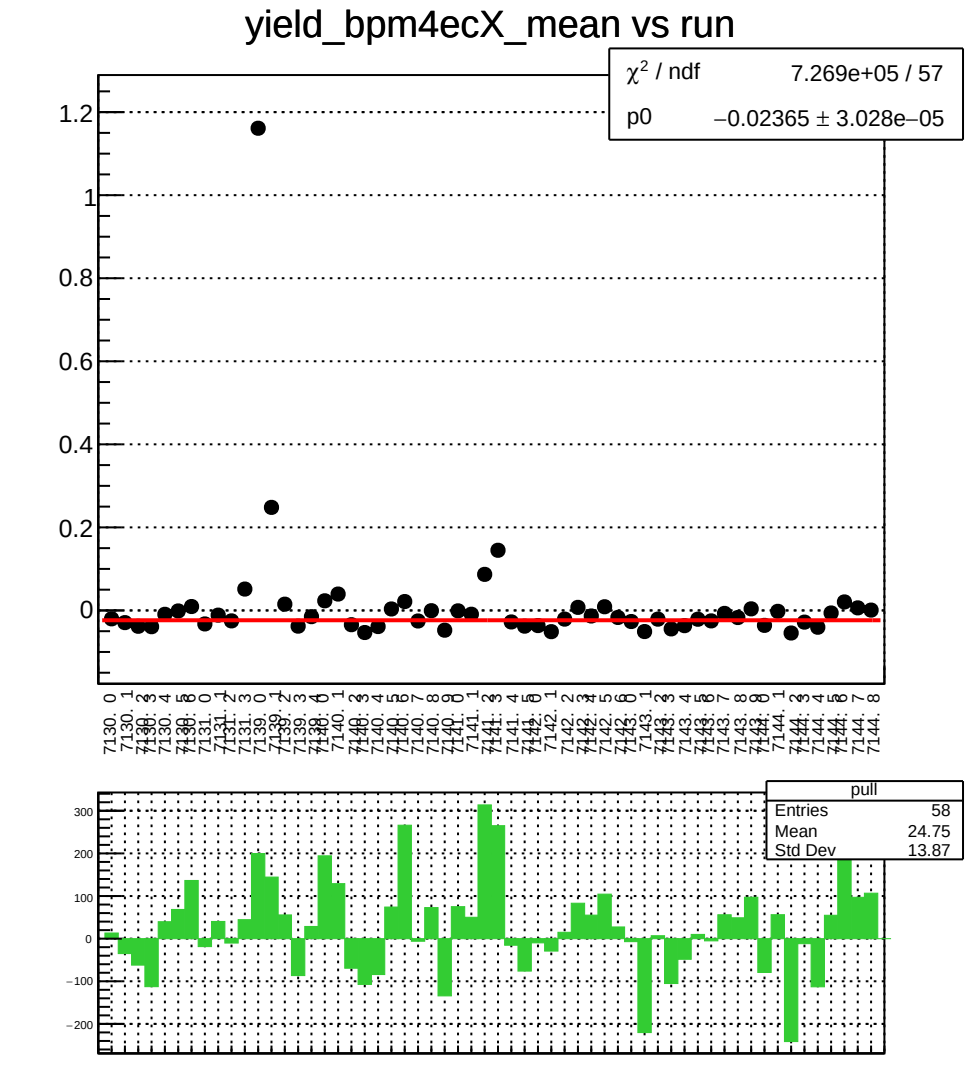

pull1D
Entries 58
Mean −0.2029
Std Dev 4.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

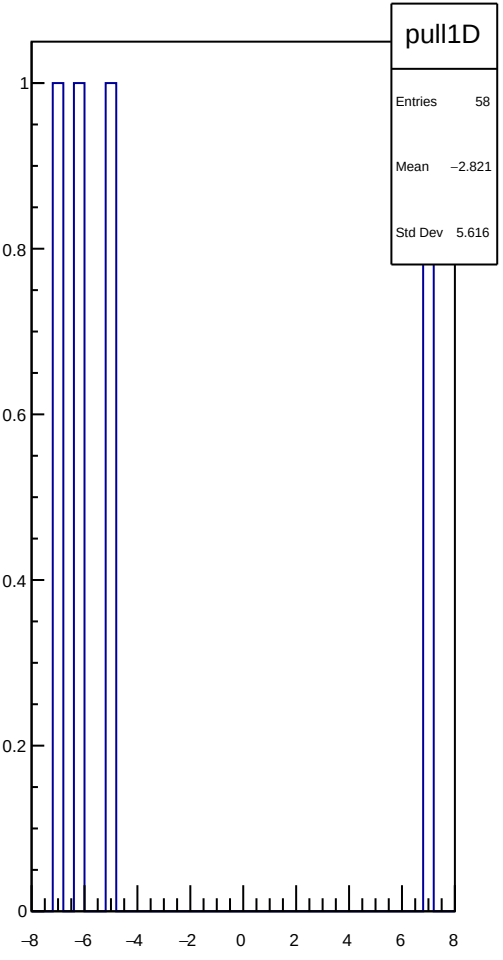

yield_bpm4acX_rms vs run
χ² / ndf 1.829e+05 / 57
p0 0.01906 ± 1.982e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

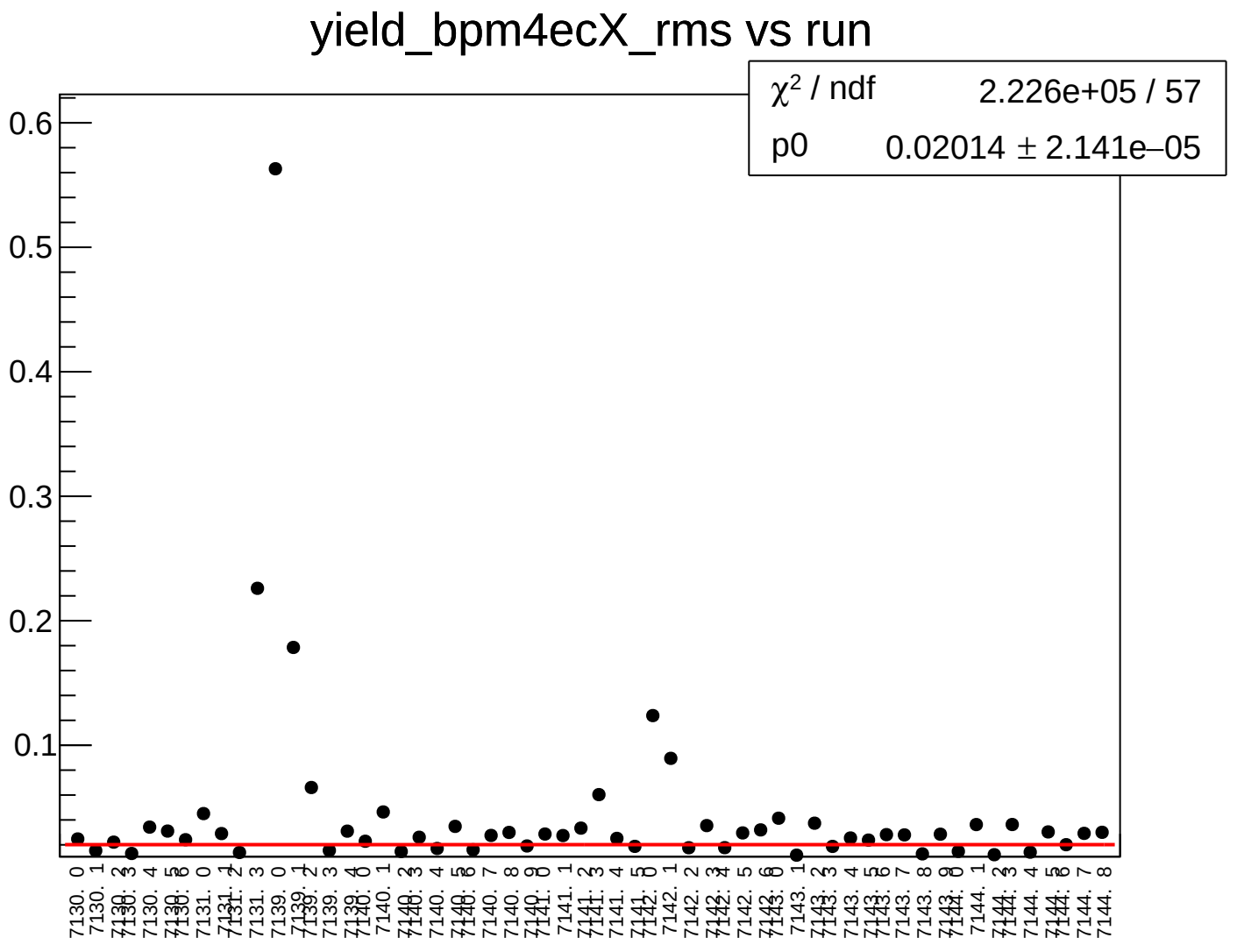

yield_bpm4acY_mean vs run
χ² / ndf 5.451e+04 / 57
p0 0.7253 ± 1.585e−05
0.755
0.75
0.745
0.74
0.735
0.73
0.725
0.72
0.715
0.71
pull
Entries 58
Mean 186
Std Dev 146.7
100
50
0
−50
−100

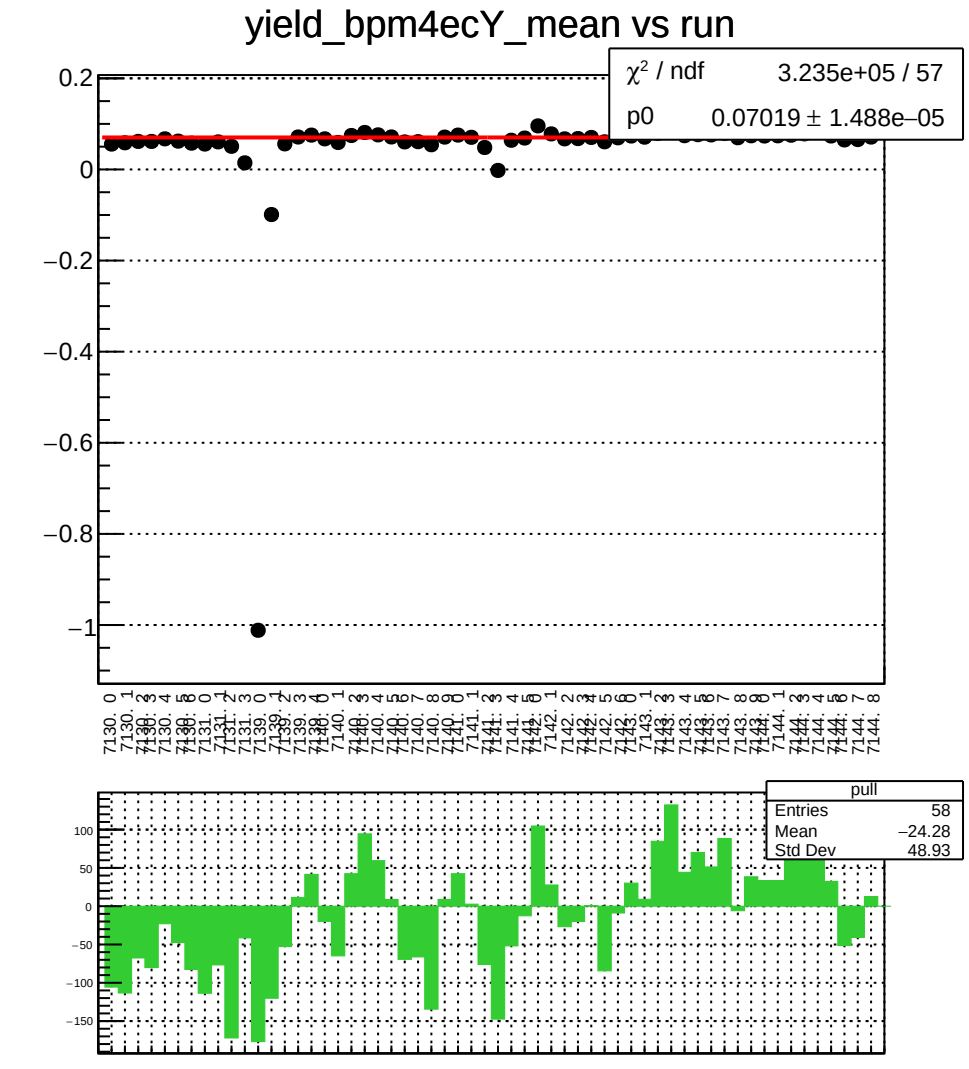

pull1D
Entries 58
Mean −1.332
Std Dev 4.063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

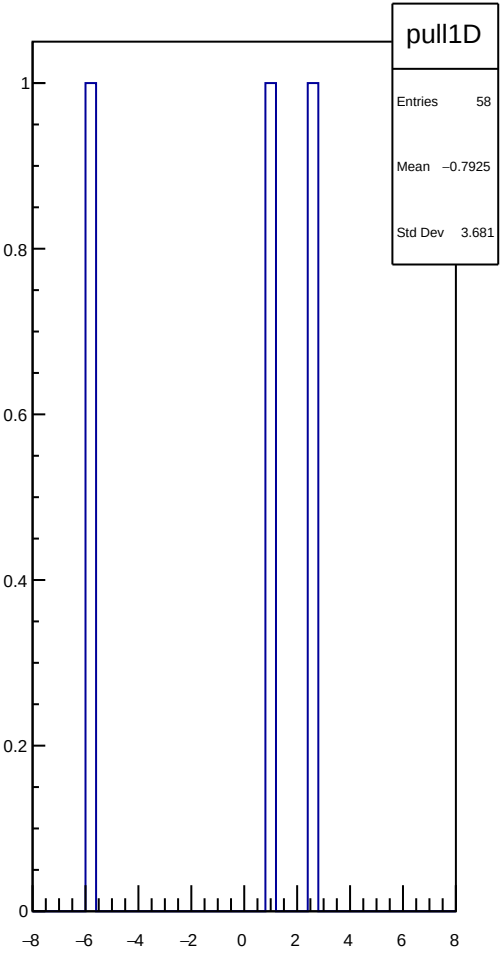

yield_bpm4acY_rms vs run
χ² / ndf 3.065e+04 / 57
p0 0.01163 ± 1.121e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

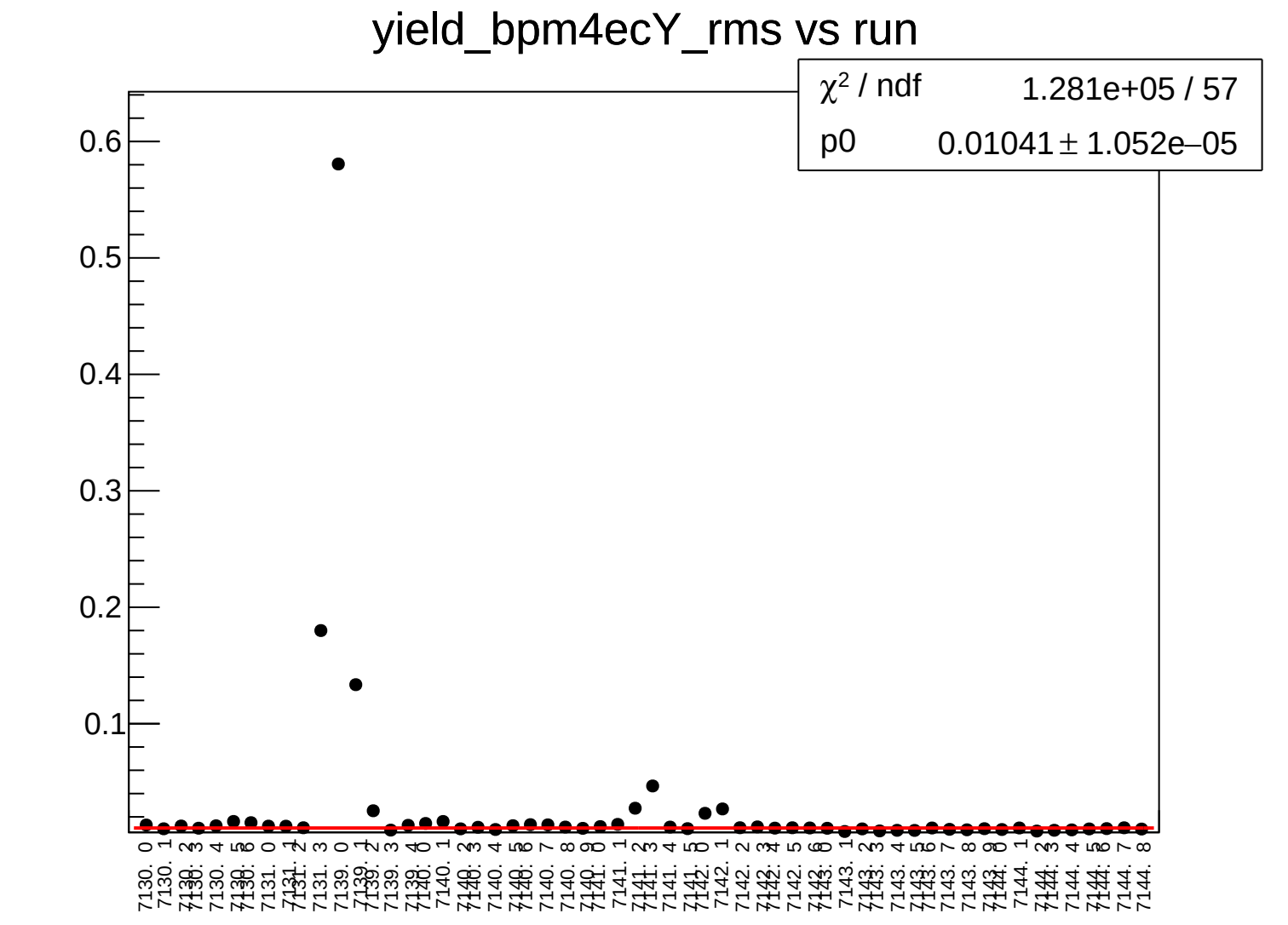

yield_bpm4ecX_mean vs run
χ² / ndf 7.269e+05 / 57
p0 −0.02365 ± 3.028e−05
pull
Entries 58
Mean 24.75
Std Dev 13.87

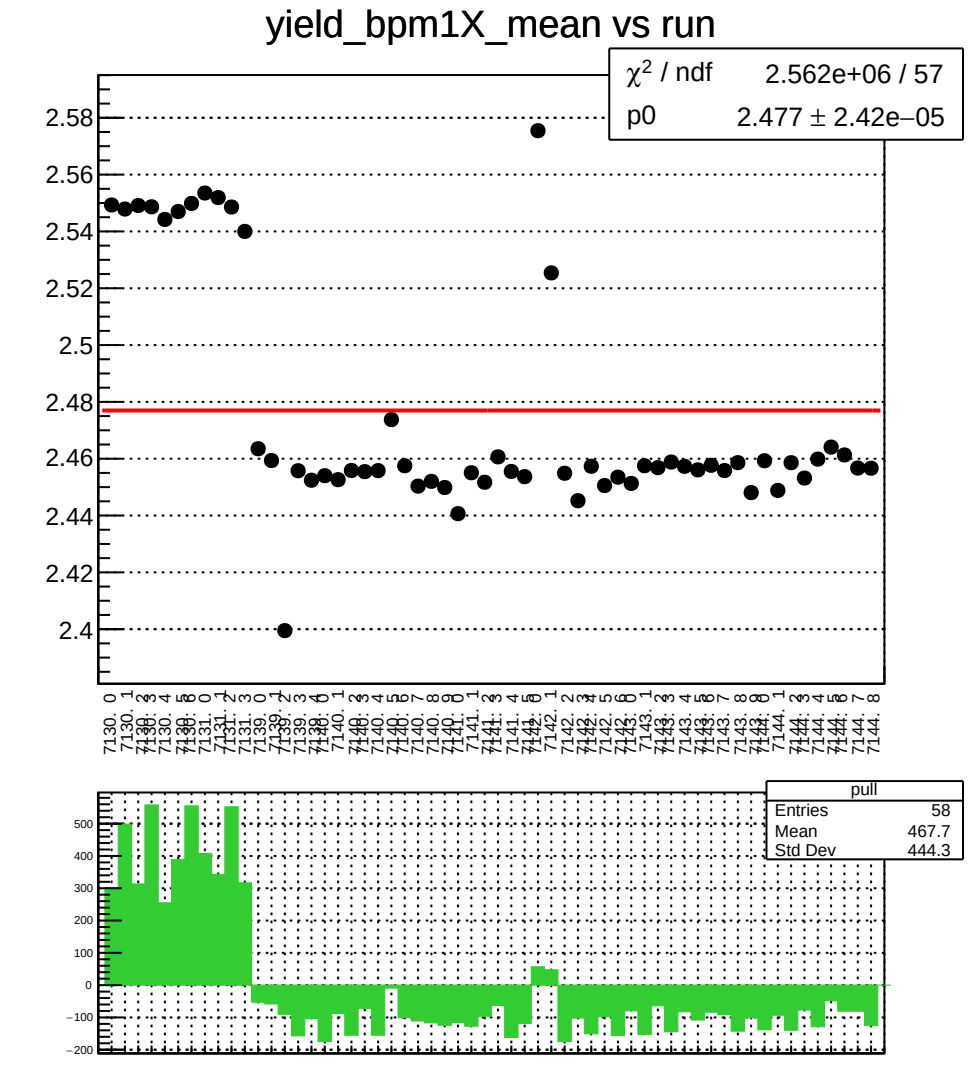

pull1D
Entries 58
Mean −2.821
Std Dev 5.616

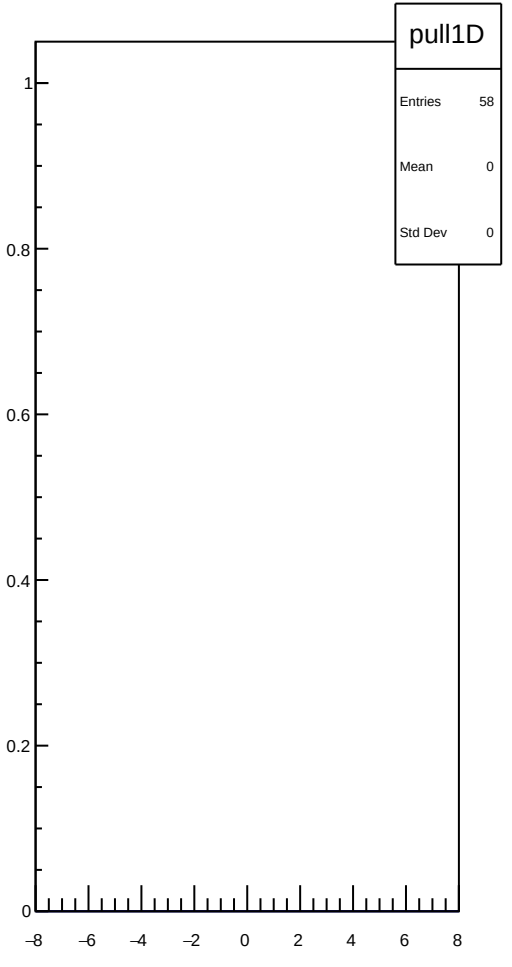

yield_bpm4ecX_rms vs run
χ² / ndf 2.226e+05 / 57
p0 0.02014 ± 2.141e−05
0.6
0.5
0.4
0.3
0.2
0.1

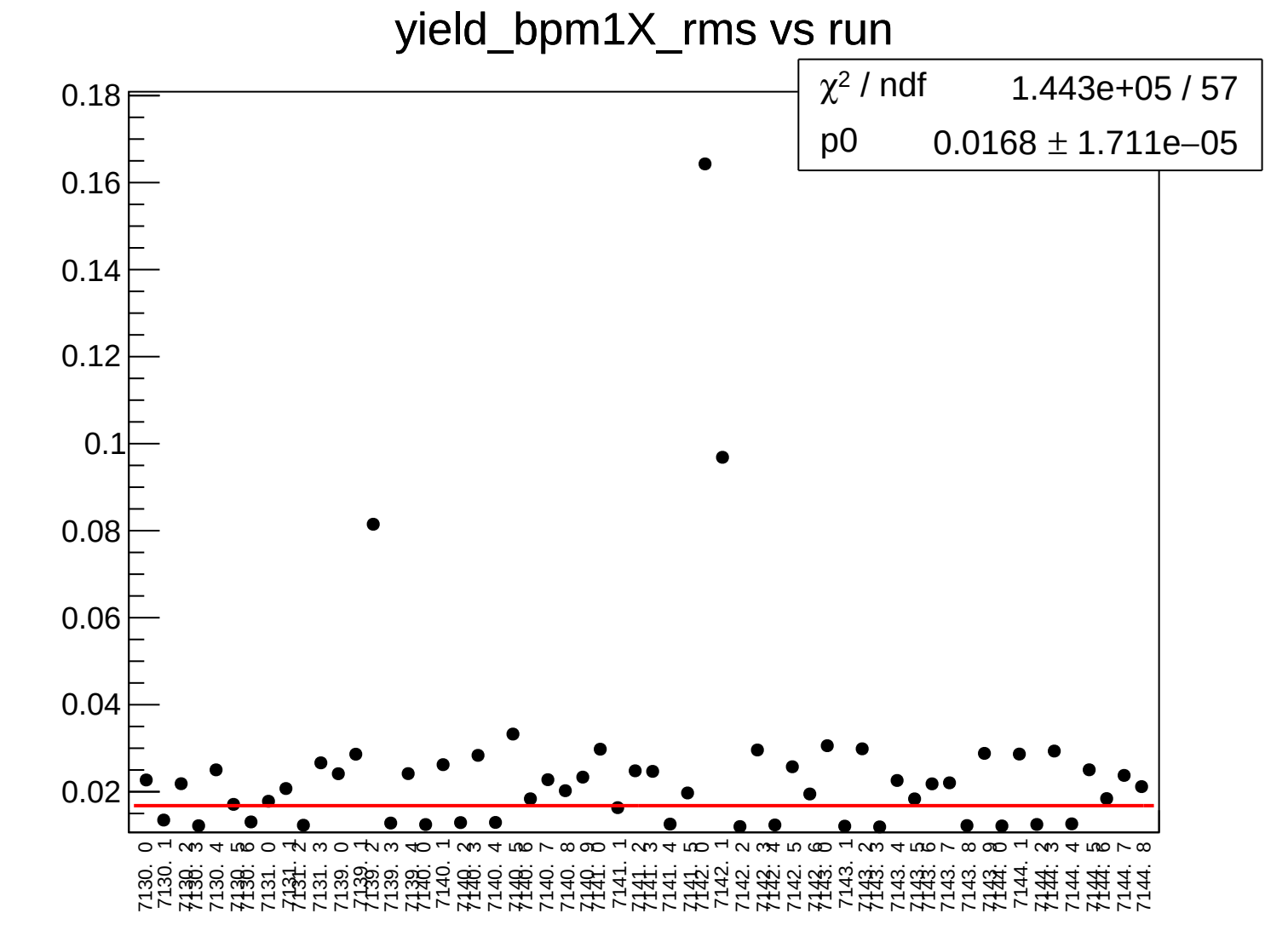

yield_bpm4ecY_mean vs run
χ² / ndf 3.235e+05 / 57
p0 0.07019 ± 1.488e−05
pull
Entries 58
Mean −24.28
Std Dev 48.93

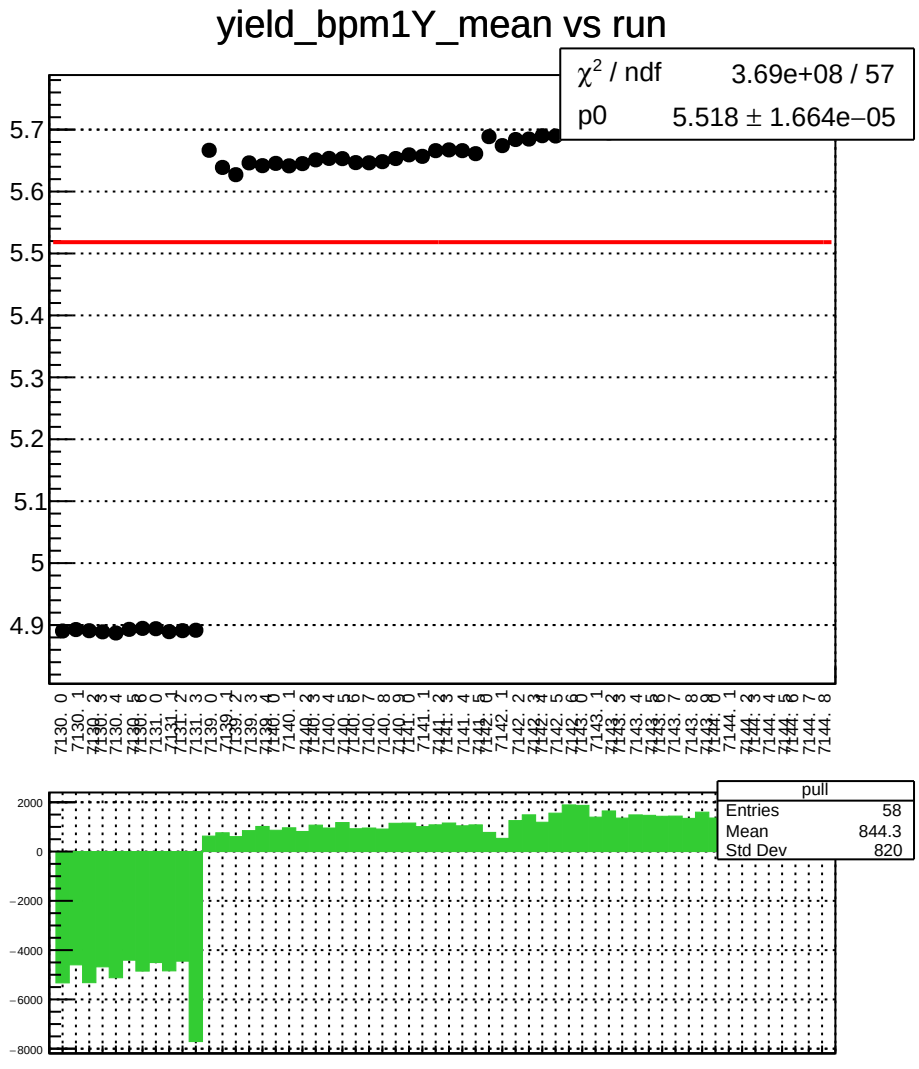

pull1D
Entries 58
Mean −0.7925
Std Dev 3.681

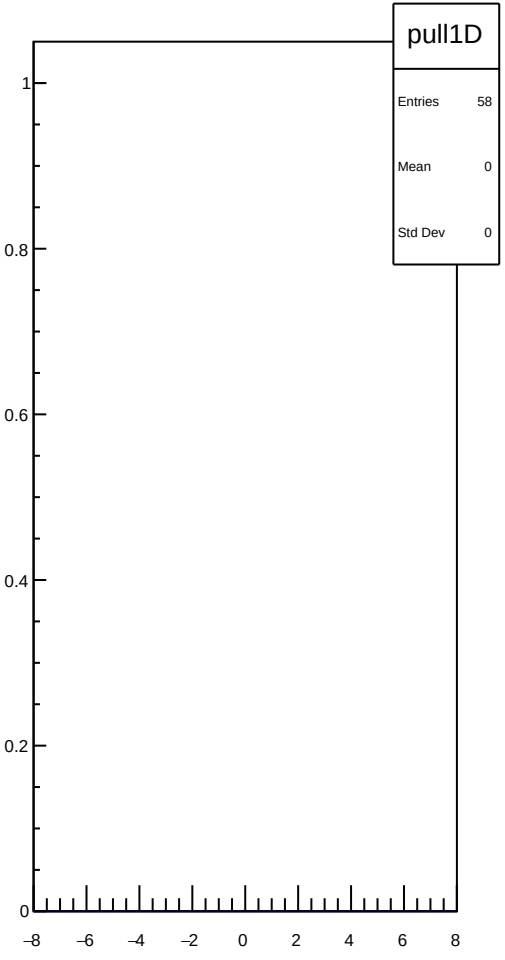

yield_bpm4ecY_rms vs run
χ² / ndf 1.281e+05 / 57
p0 0.01041 ± 1.052e–05
0.6
0.5
0.4
0.3
0.2
0.1

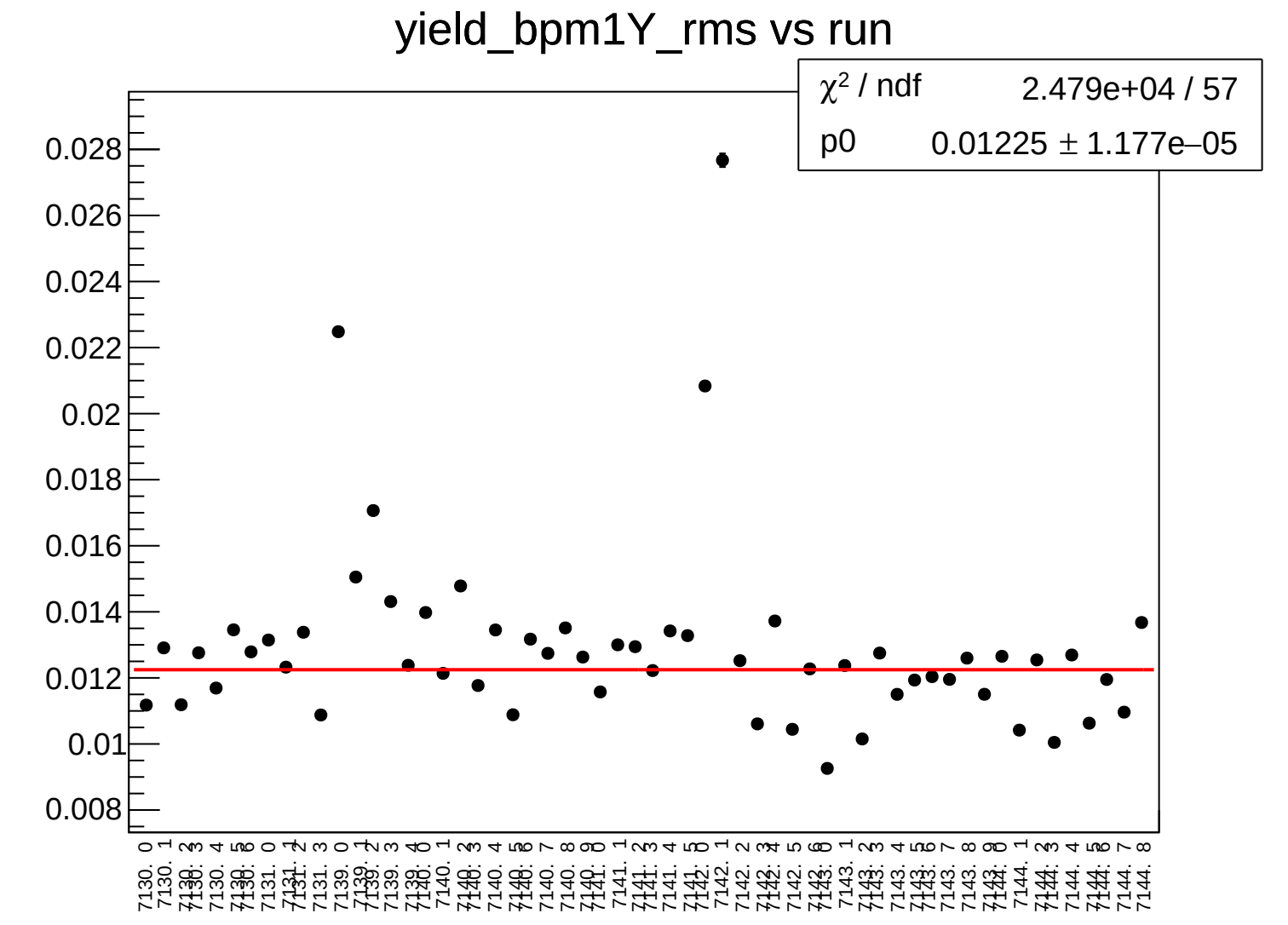

yield_bpm1X_mean vs run
χ² / ndf 2.562e+06 / 57
p0 2.477 ± 2.42e−05
2.58
2.56
2.54
2.52
2.5
2.48
2.46
2.44
2.42
2.4
pull
Entries 58
Mean 467.7
Std Dev 444.3
500
400
300
200
100
0
−100
−200

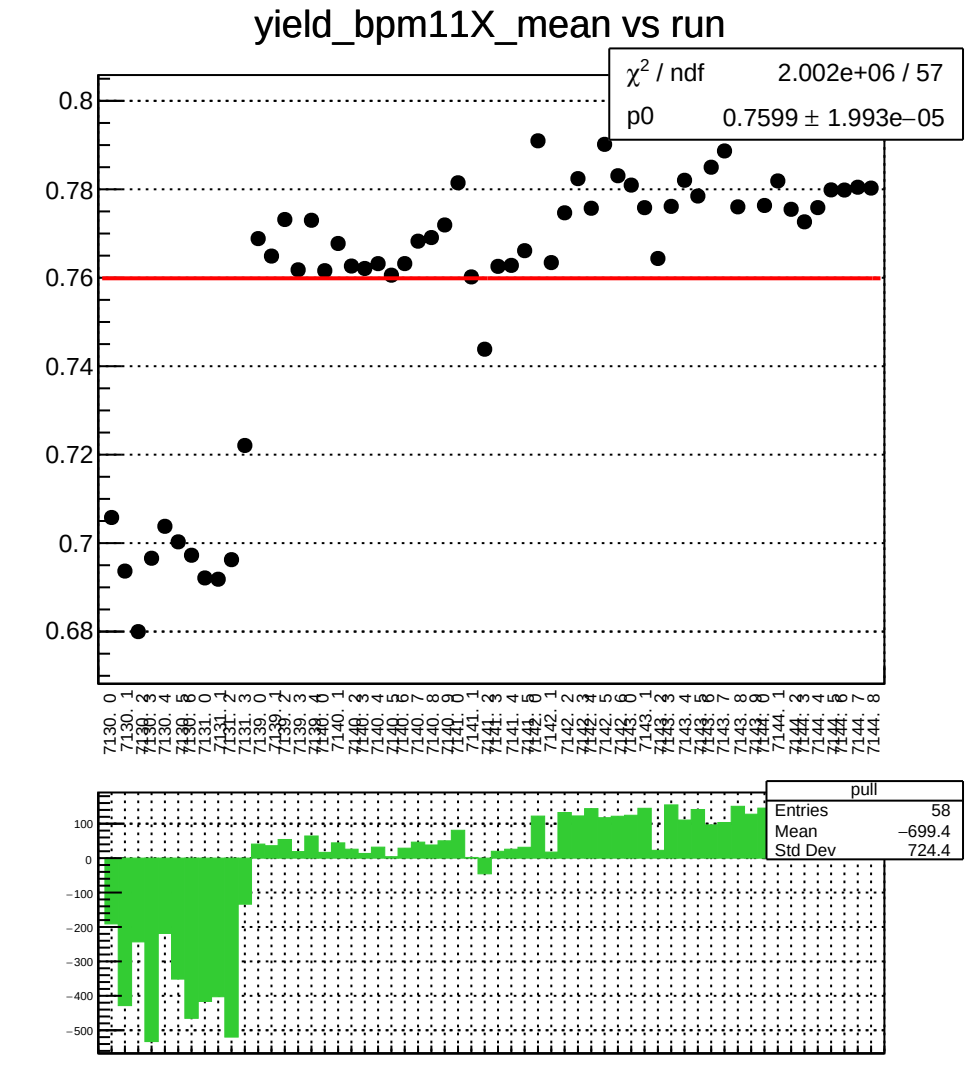

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

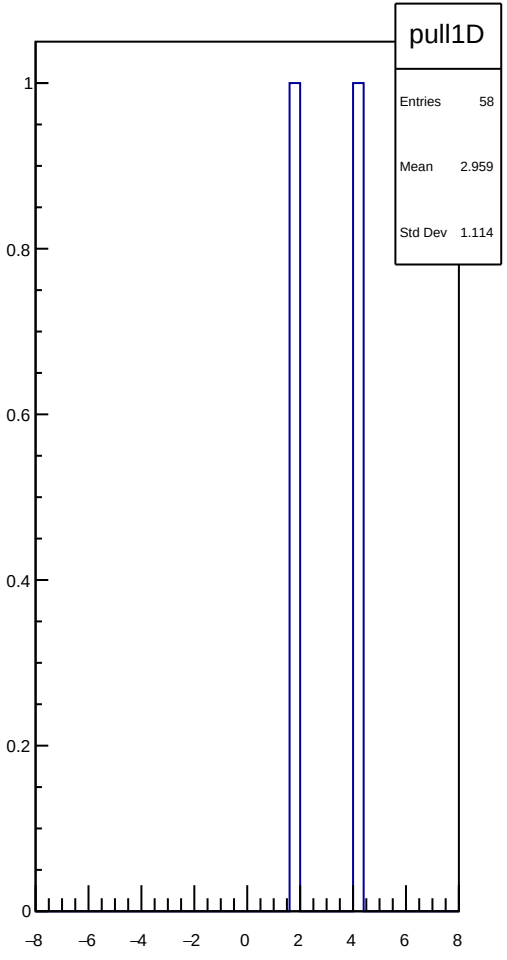

yield_bpm1X_rms vs run
χ² / ndf 1.443e+05 / 57
p0 0.0168 ± 1.711e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

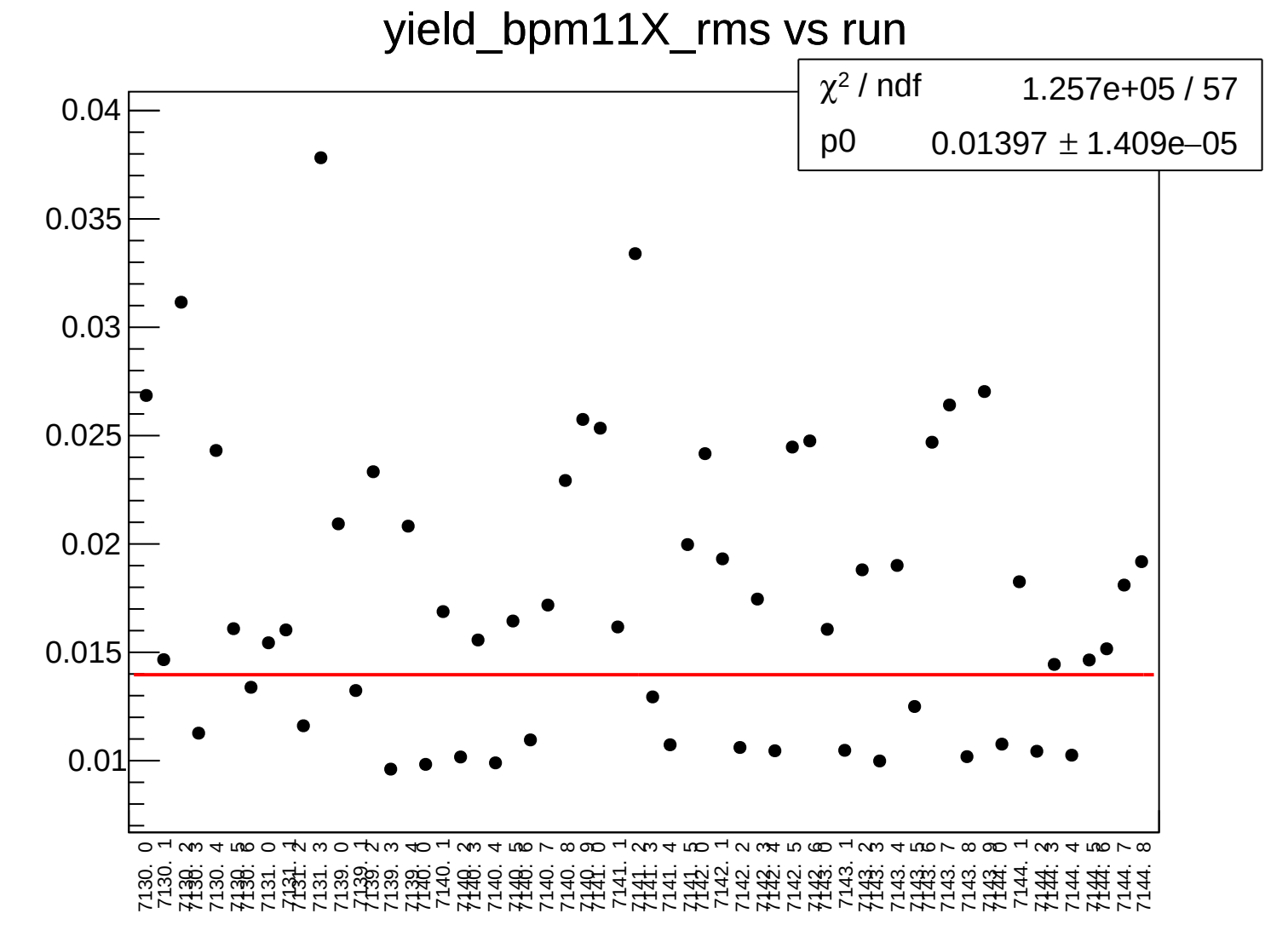

yield_bpm1Y_mean vs run
χ² / ndf 3.69e+08 / 57
p0 5.518 ± 1.664e−05
pull
Entries 58
Mean 844.3
Std Dev 820

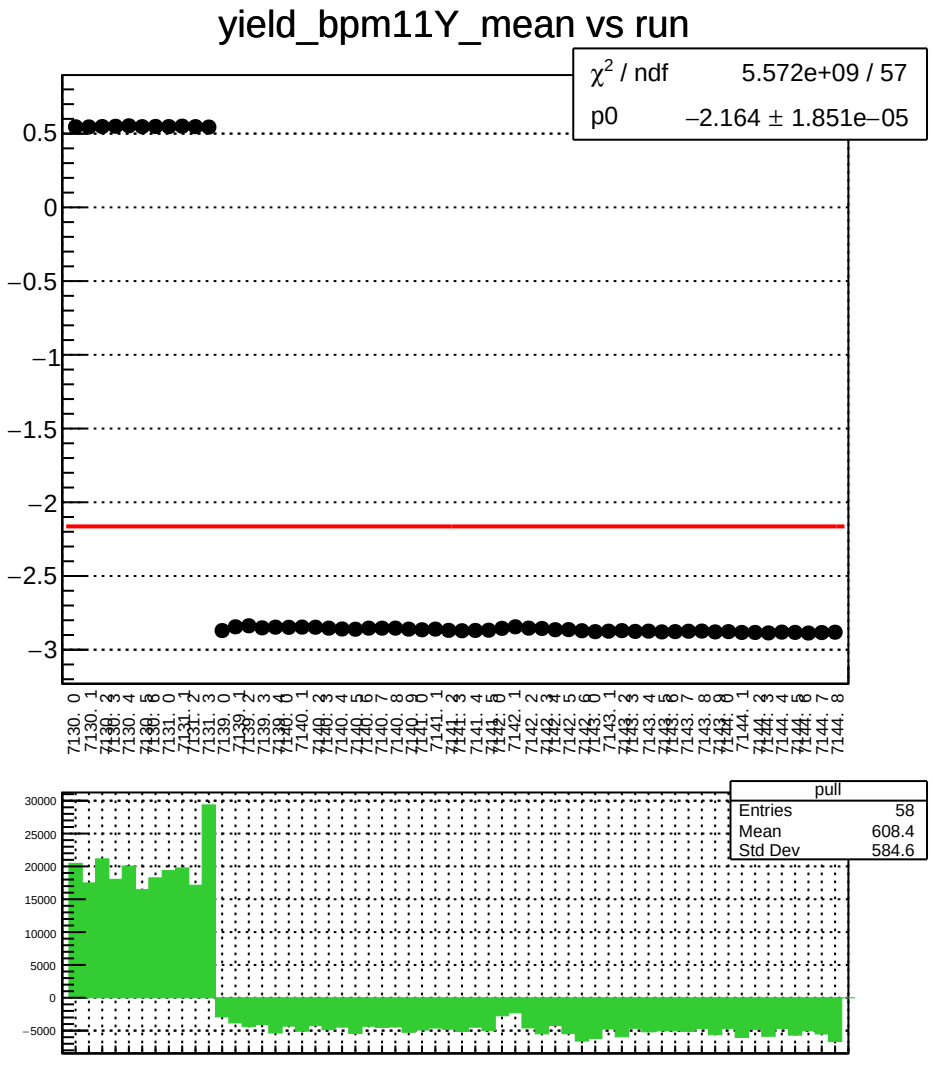

pull1D
Entries 58
Mean 0
Std Dev 0

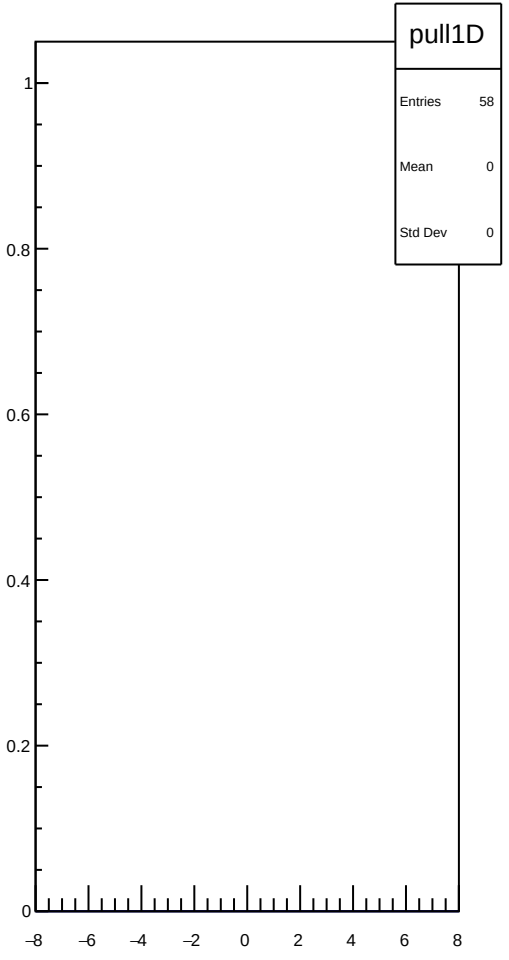

yield_bpm1Y_rms vs run
χ² / ndf 2.479e+04 / 57
p0 0.01225 ± 1.177e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

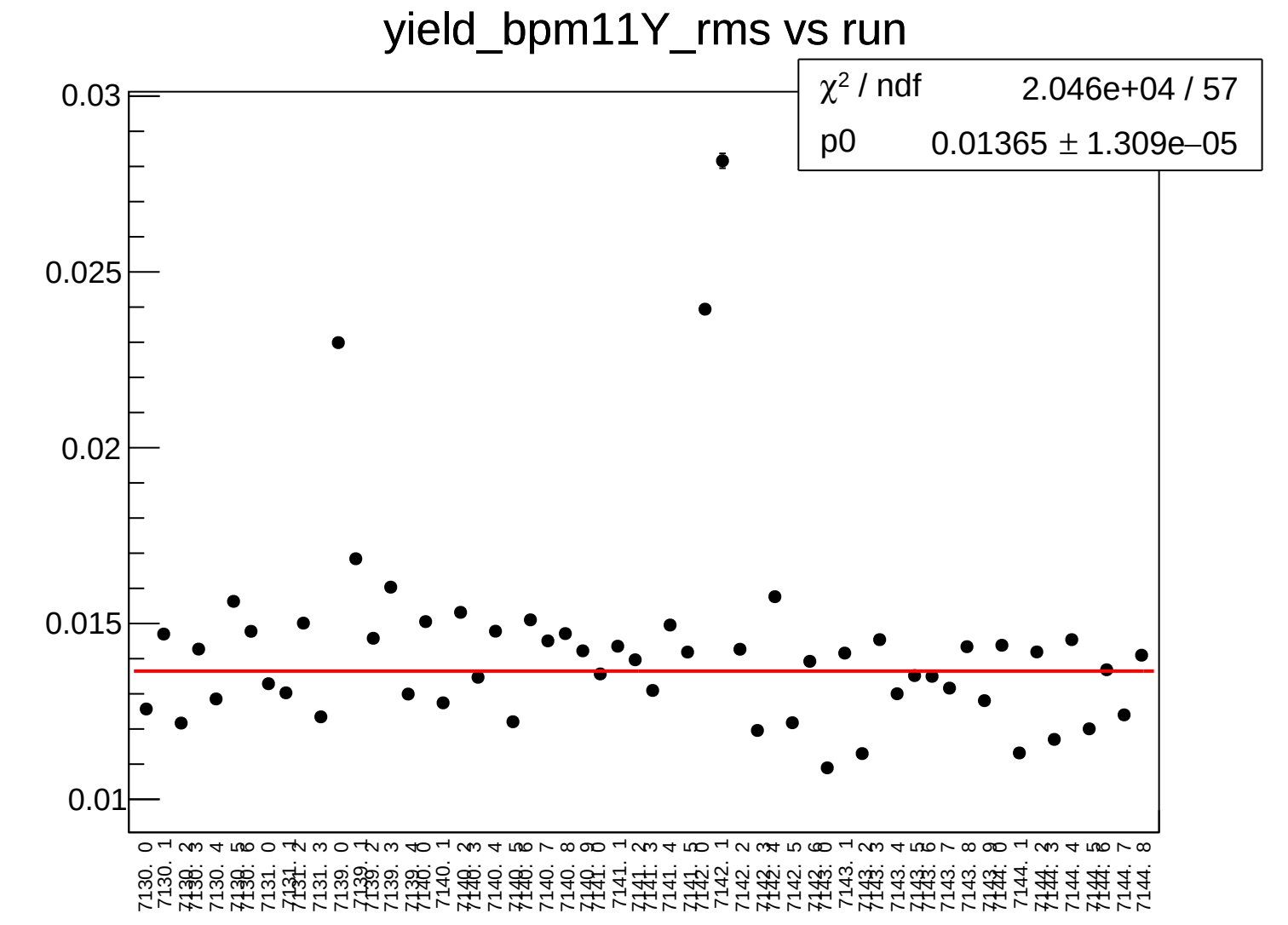

yield_bpm11X_mean vs run
χ² / ndf 2.002e+06 / 57
p0 0.7599 ± 1.993e−05
pull
Entries 58
Mean −699.4
Std Dev 724.4

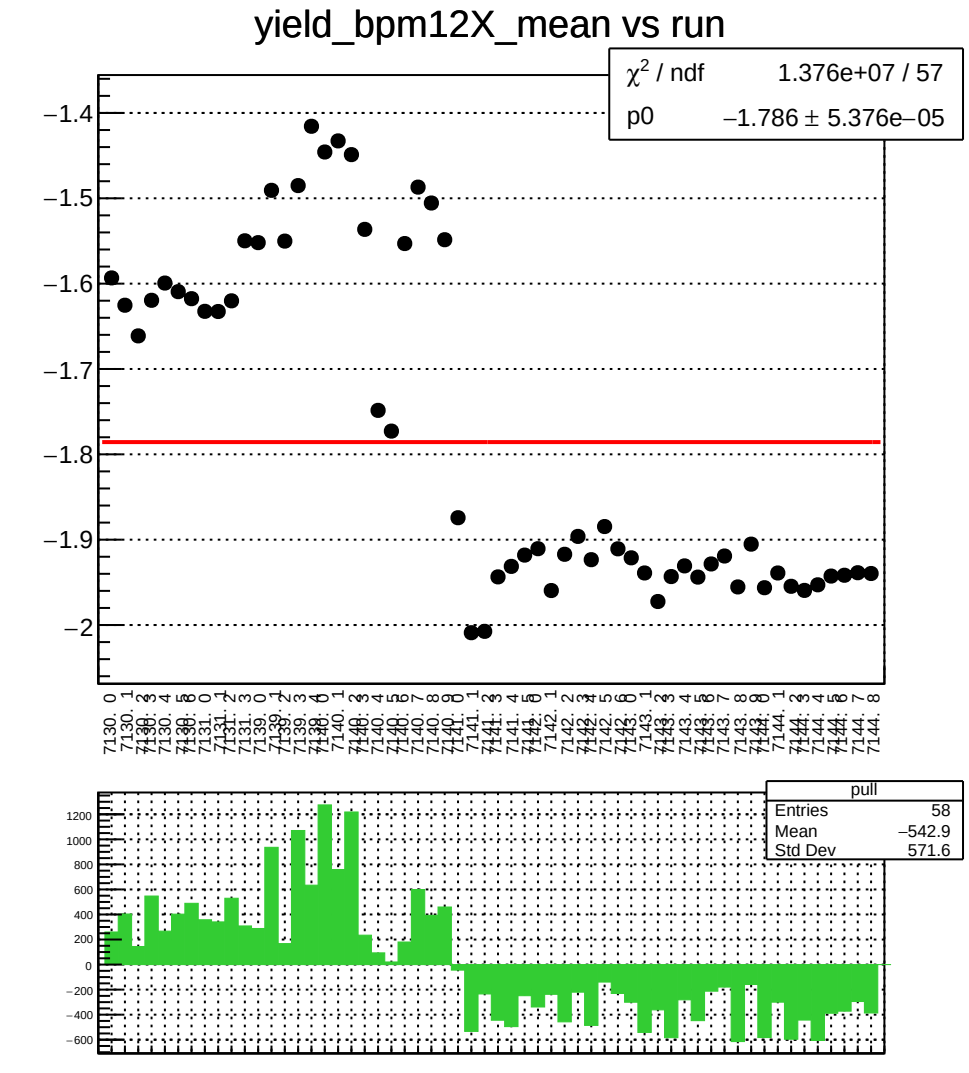

pull1D
Entries 58
Mean 2.959
Std Dev 1.114

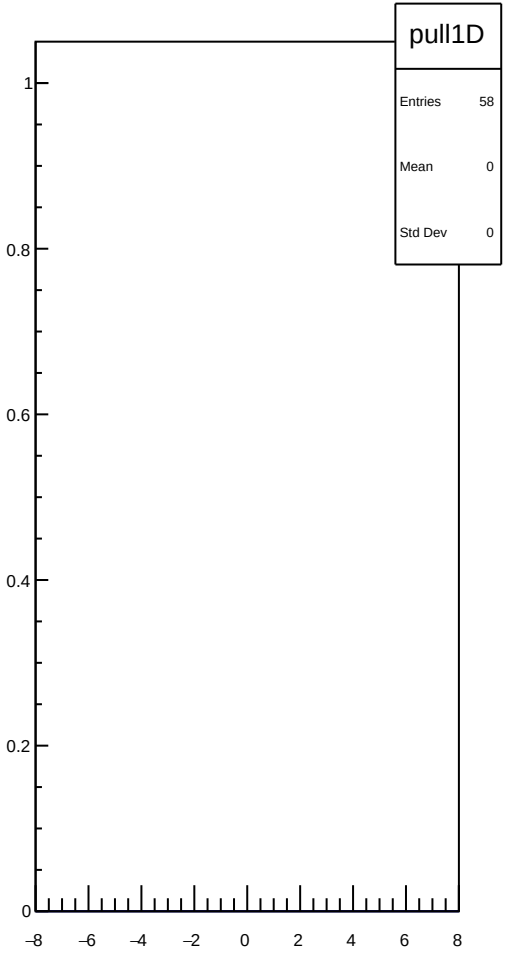

yield_bpm11X_rms vs run
χ² / ndf 1.257e+05 / 57
p0 0.01397 ± 1.409e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

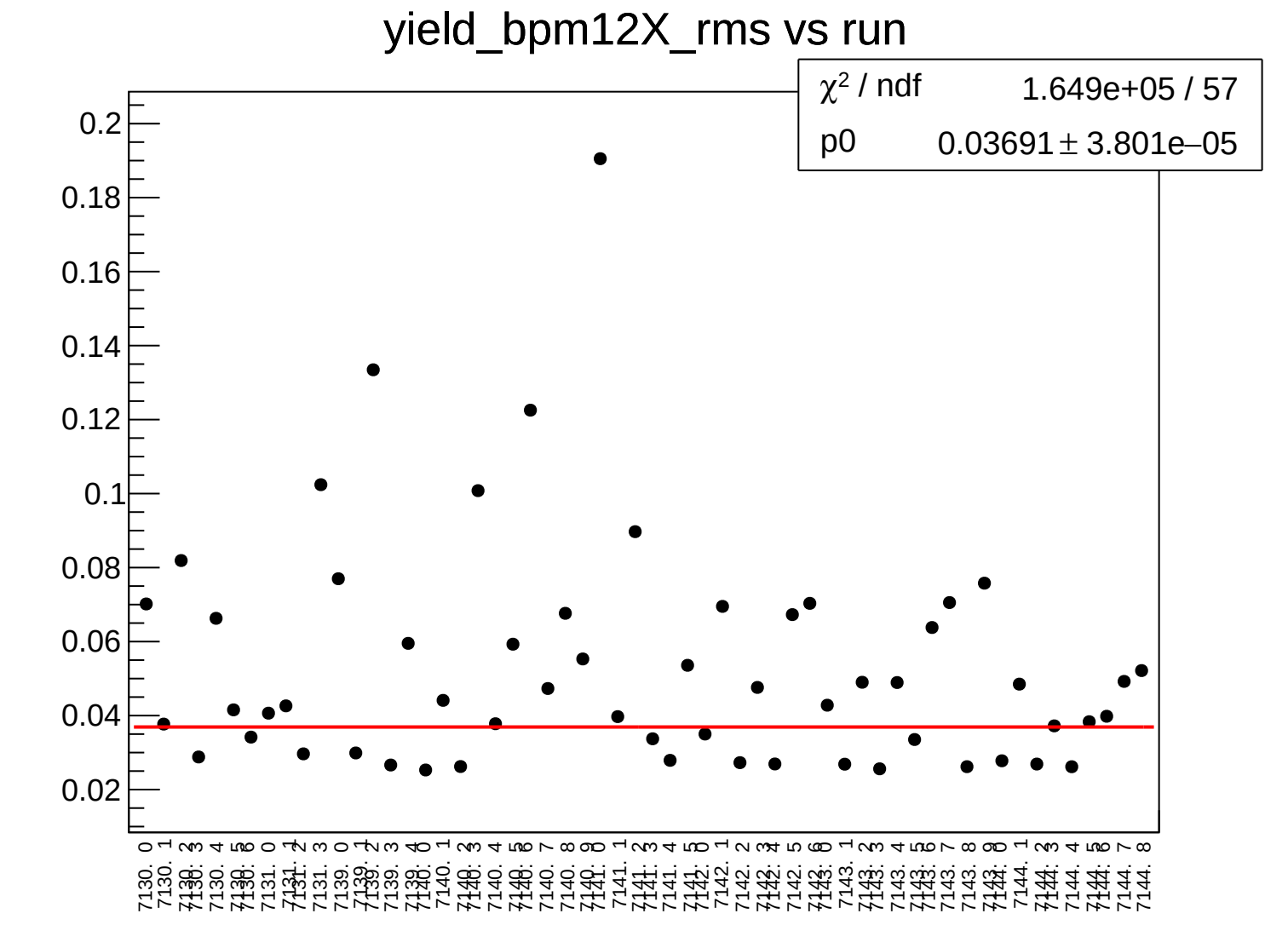

yield_bpm11Y_mean vs run
χ² / ndf 5.572e+09 / 57
p0 −2.164 ± 1.851e−05
pull
Entries 58
Mean 608.4
Std Dev 584.6

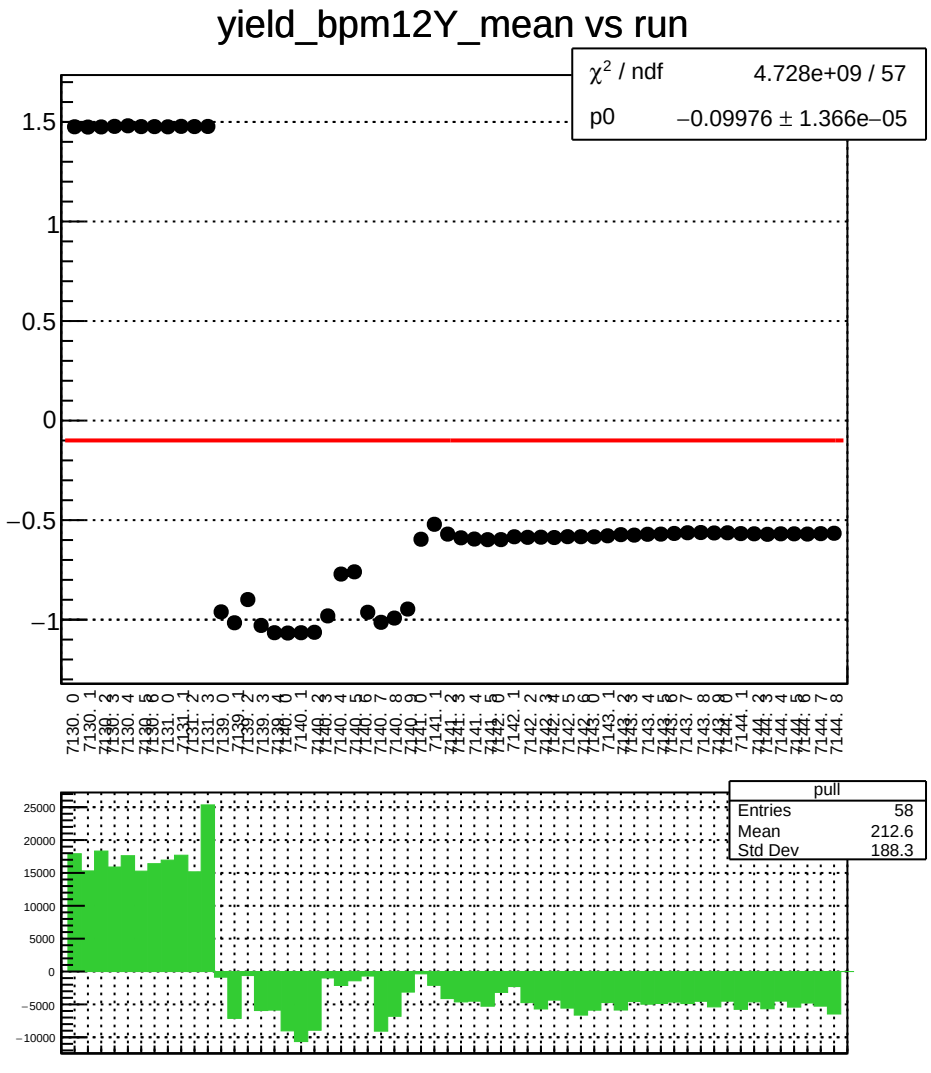

pull1D
Entries 58
Mean 0
Std Dev 0

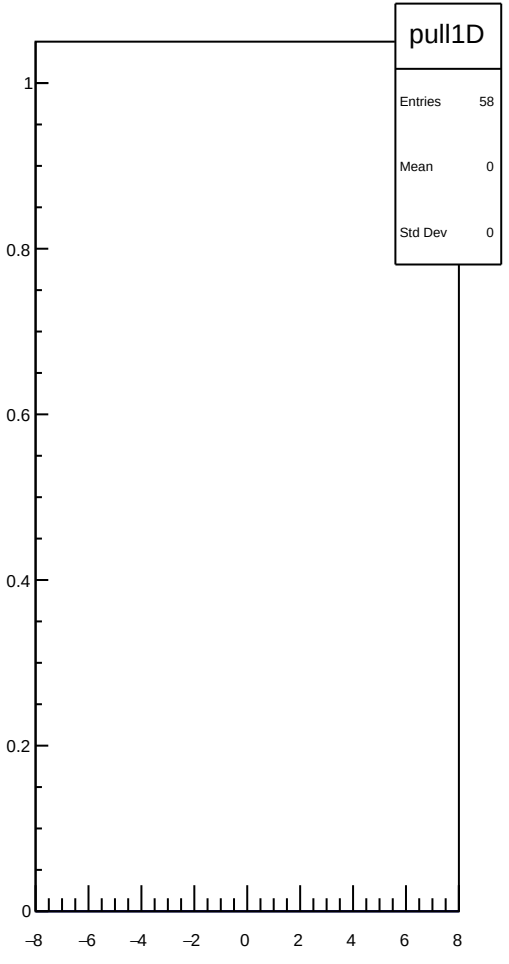

yield_bpm11Y_rms vs run
χ² / ndf 2.046e+04 / 57
p0 0.01365 ± 1.309e–05
0.03
0.025
0.02
0.015
0.01

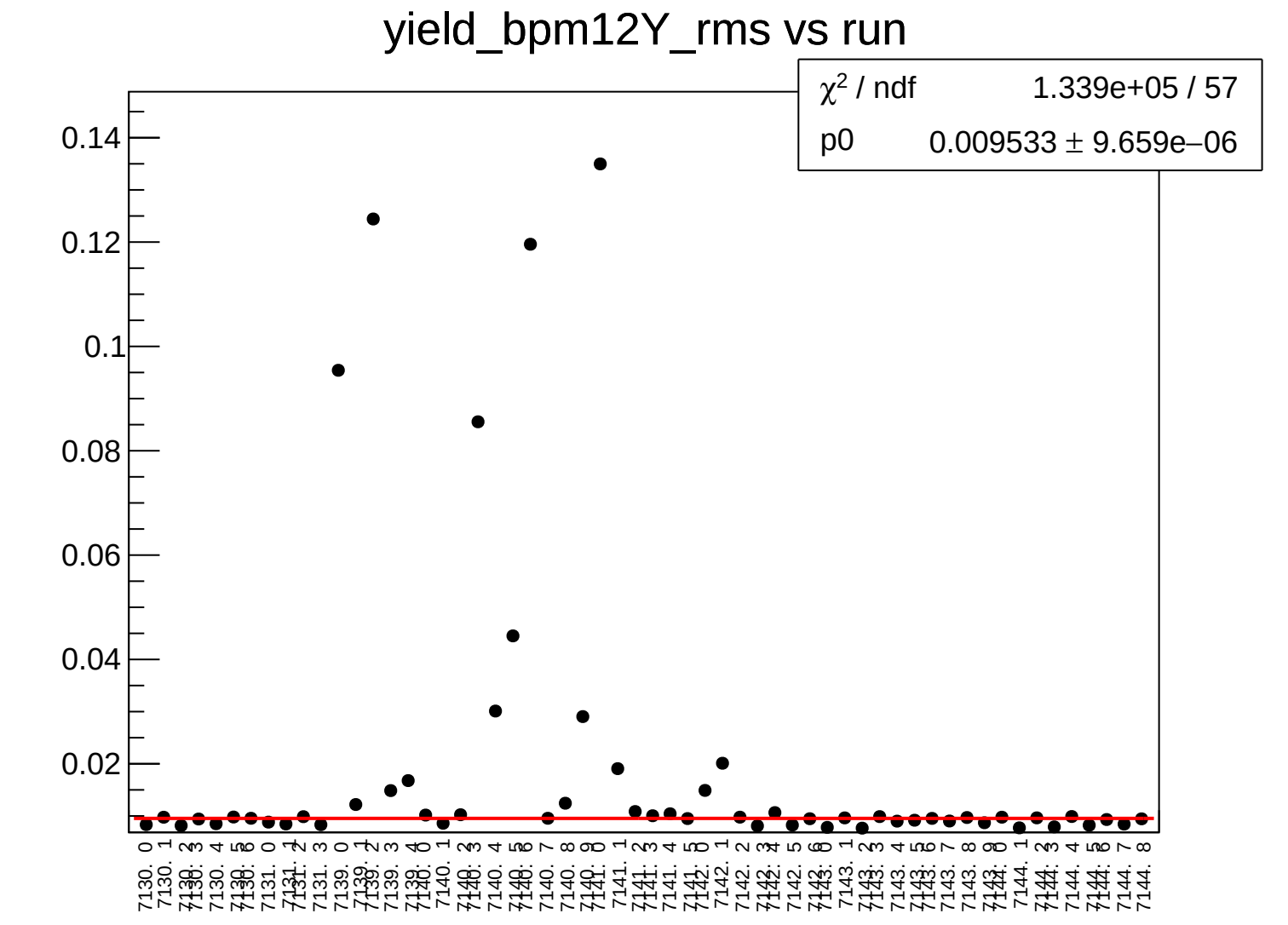

yield_bpm12X_mean vs run
χ² / ndf 1.376e+07 / 57
p0 −1.786 ± 5.376e−05
pull
Entries 58
Mean −542.9
Std Dev 571.6

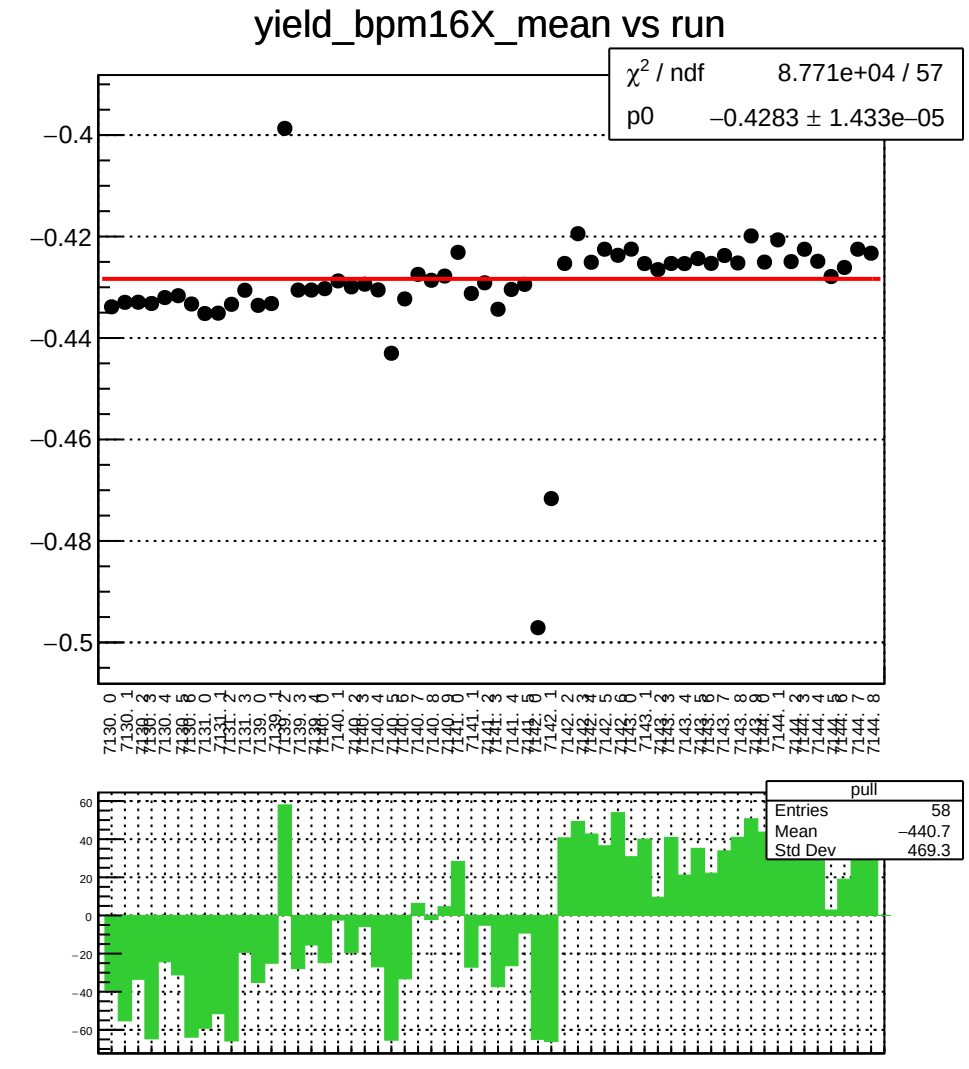

pull1D
Entries 58
Mean 0
Std Dev 0

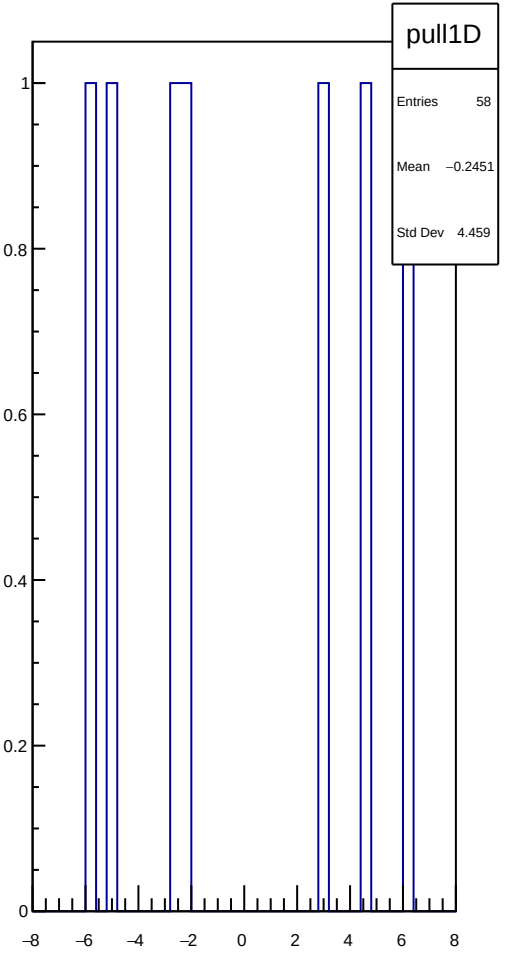

yield_bpm12X_rms vs run
χ² / ndf 1.649e+05 / 57
p0 0.03691 ± 3.801e–05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

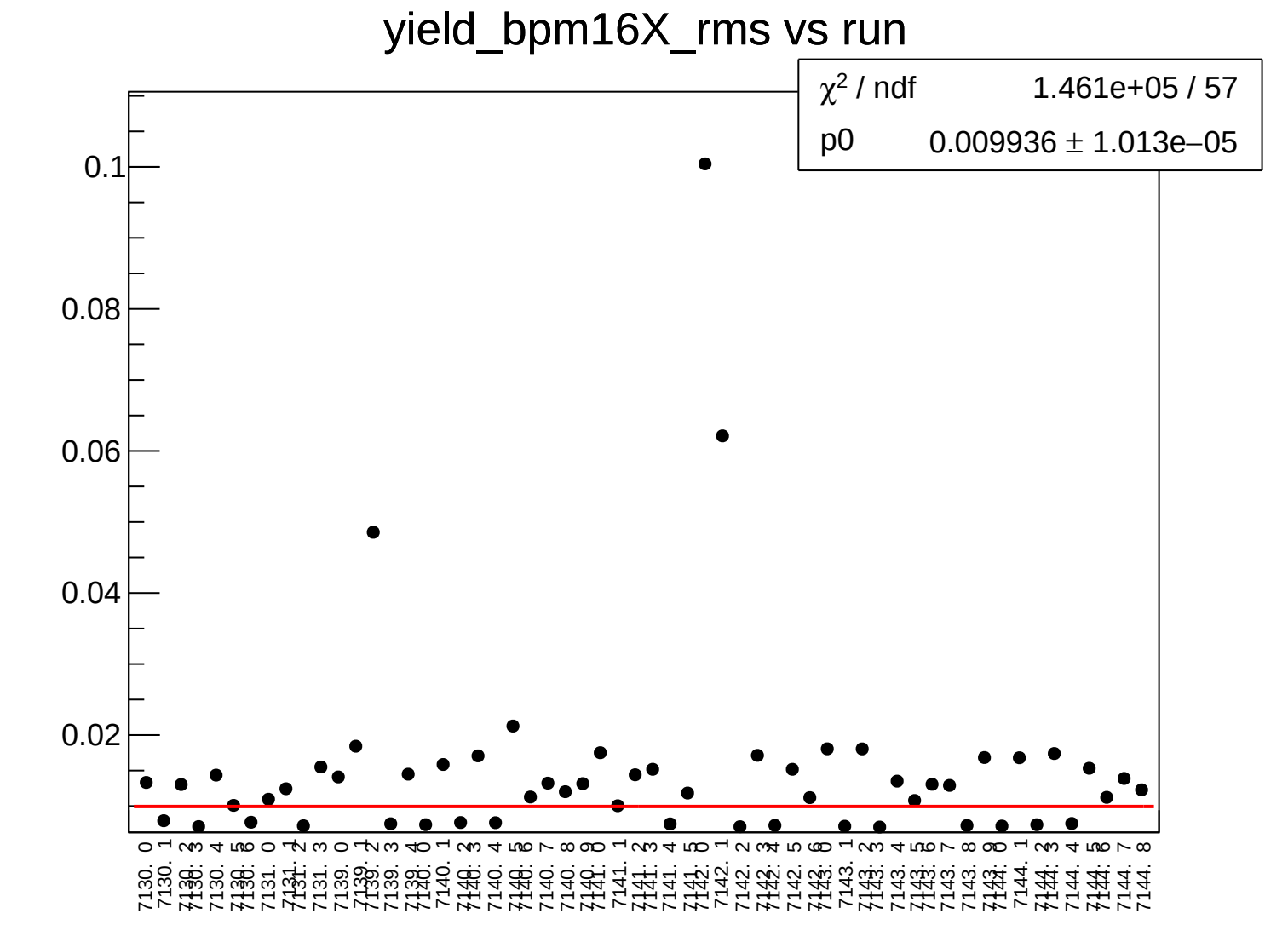

yield_bpm12Y_mean vs run
χ² / ndf 4.728e+09 / 57
p0 −0.09976 ± 1.366e−05
pull
Entries 58
Mean 212.6
Std Dev 188.3

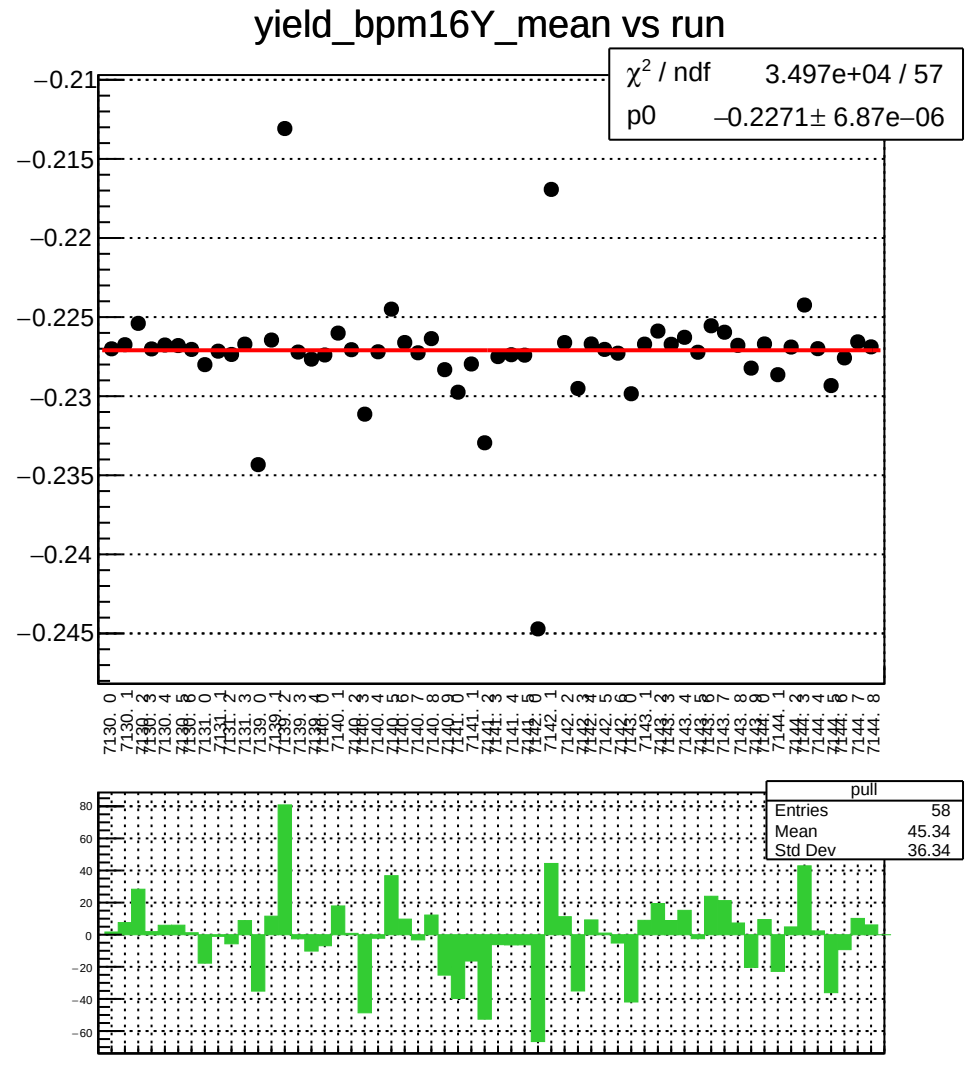

pull1D
Entries 58
Mean 0
Std Dev 0

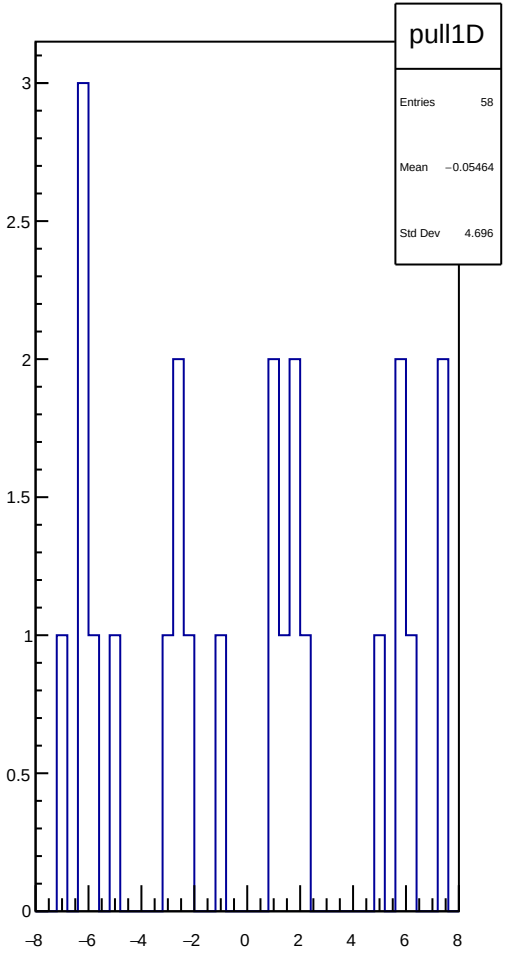

yield_bpm12Y_rms vs run
χ² / ndf 1.339e+05 / 57
p0 0.009533 ± 9.659e−06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

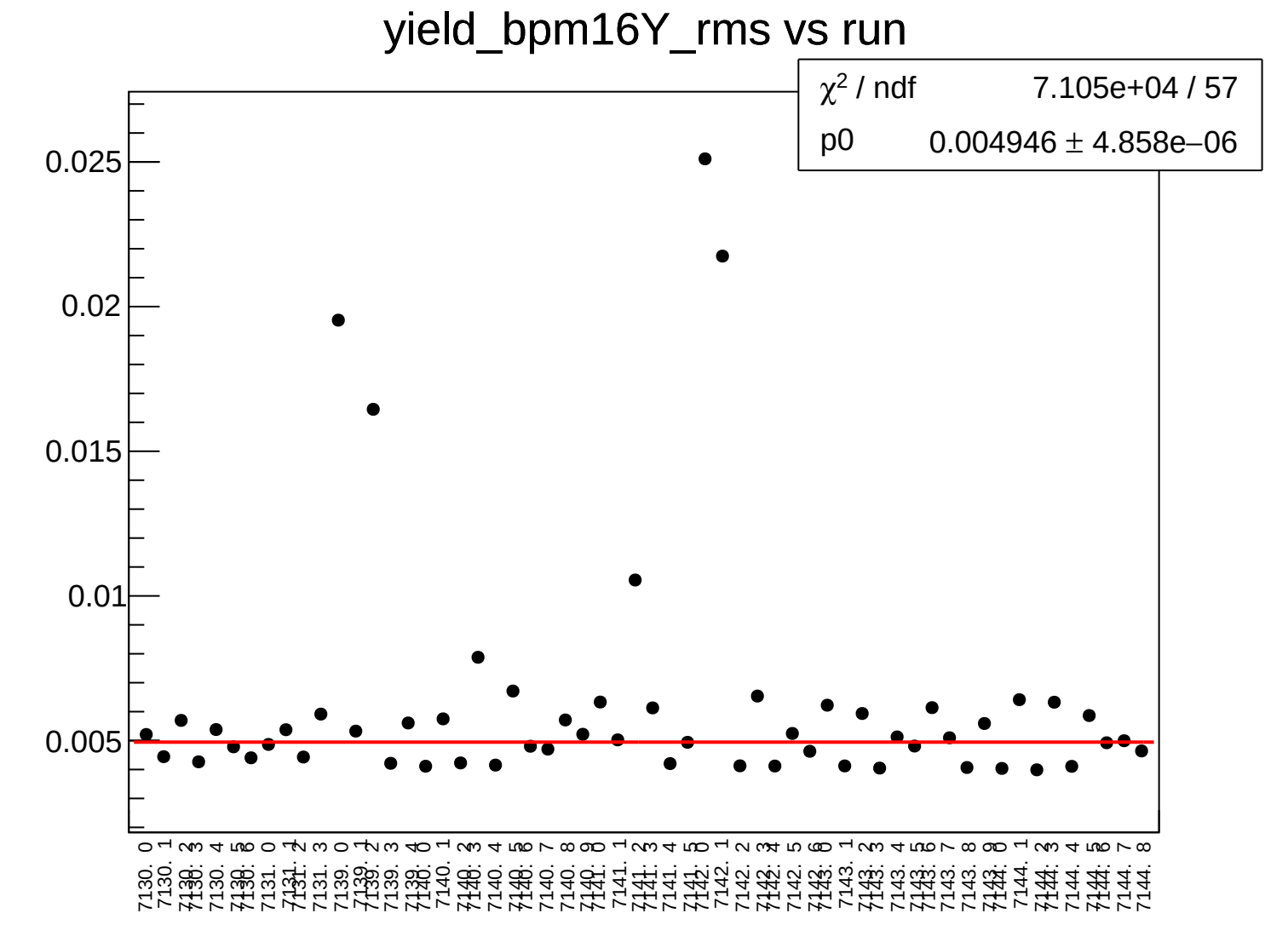

yield_bpm16X_mean vs run
χ² / ndf 8.771e+04 / 57
p0 −0.4283 ± 1.433e−05
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 58
Mean −440.7
Std Dev 469.3
60
40
20
0
−20
−40
−60

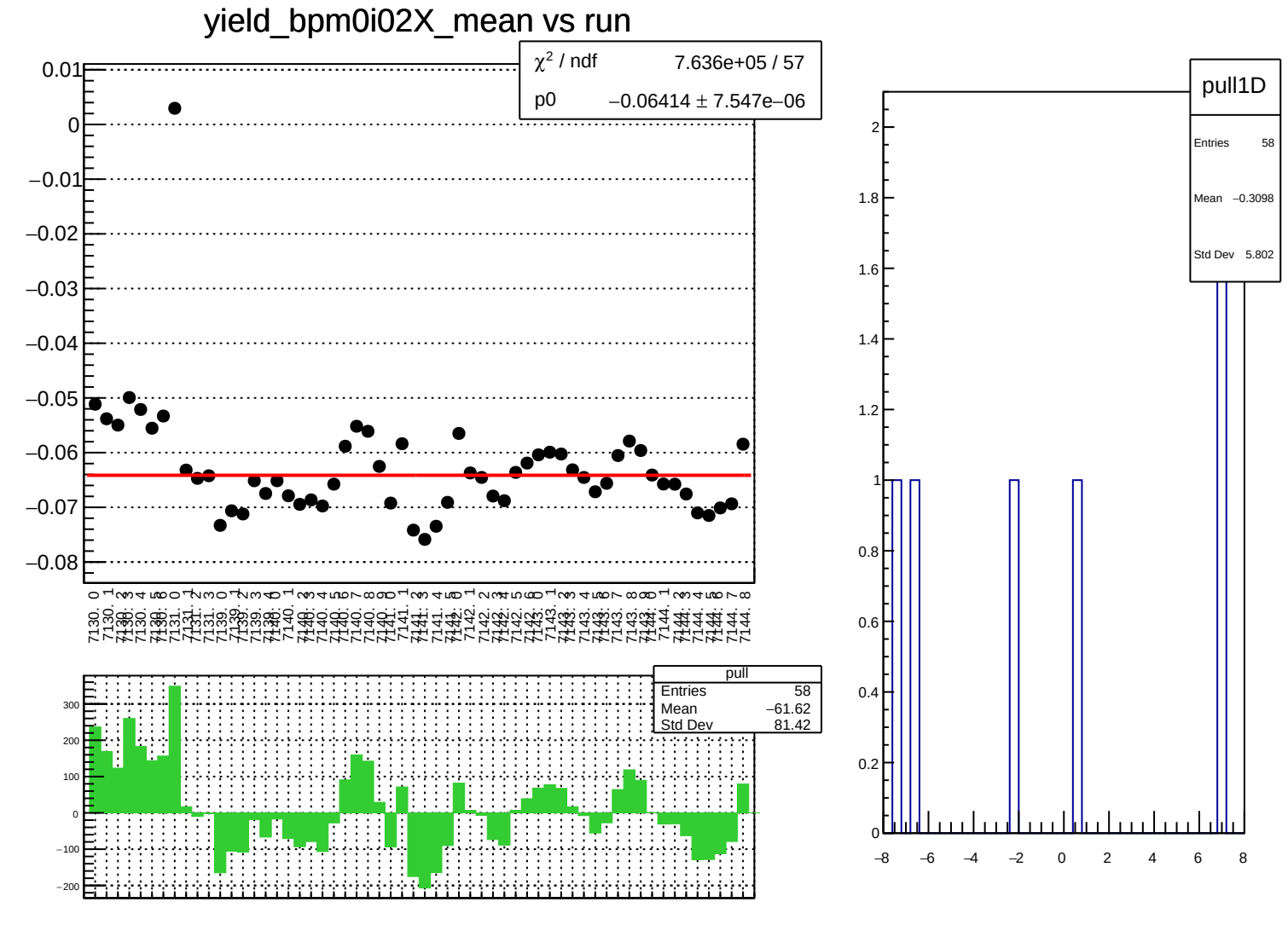

pull1D
Entries 58
Mean −0.2451
Std Dev 4.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

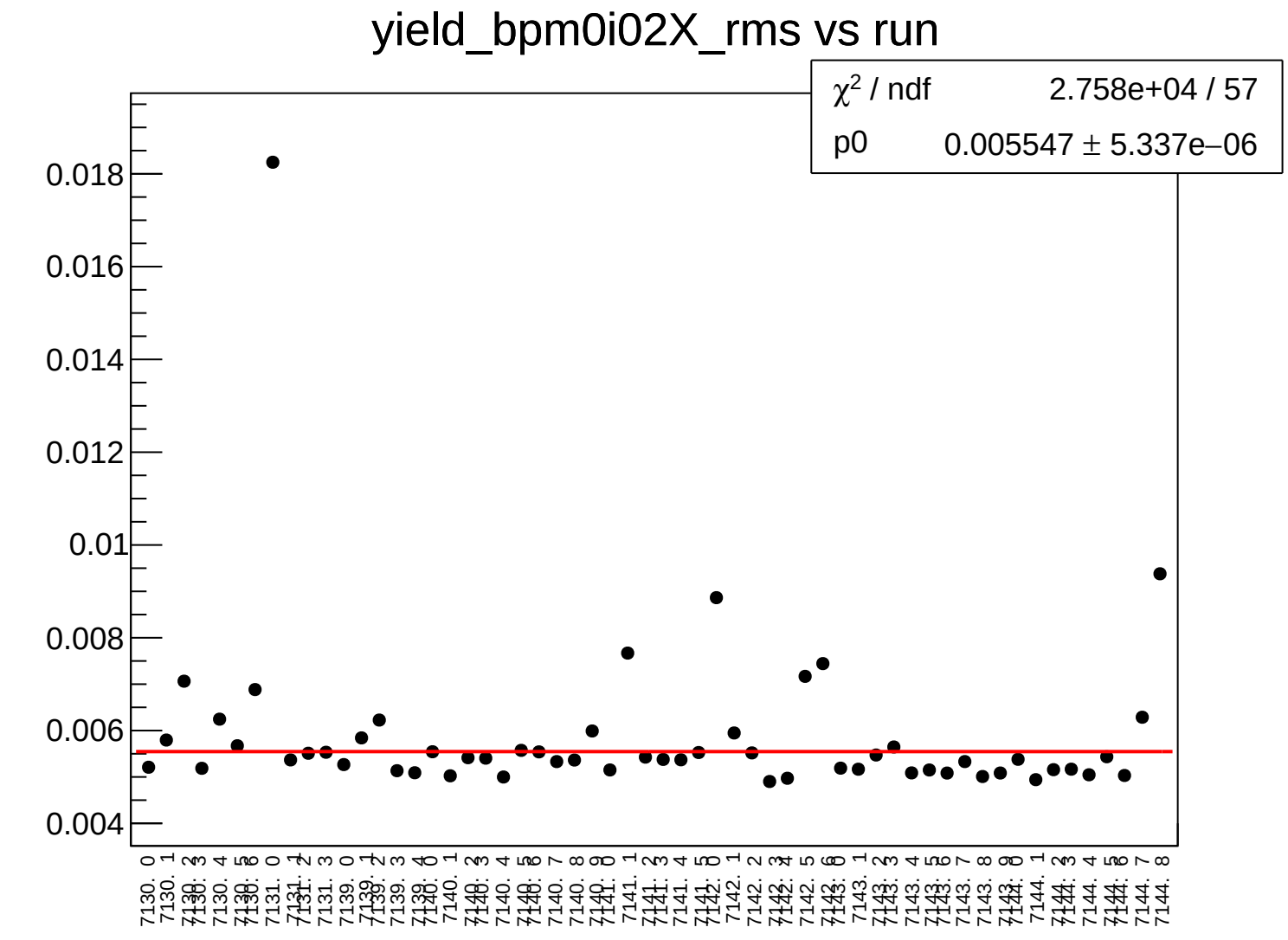

yield_bpm16X_rms vs run
χ^2 / ndf 1.461e+05 / 57
p0 0.009936 ± 1.013e−05
0.1
0.08
0.06
0.04
0.02

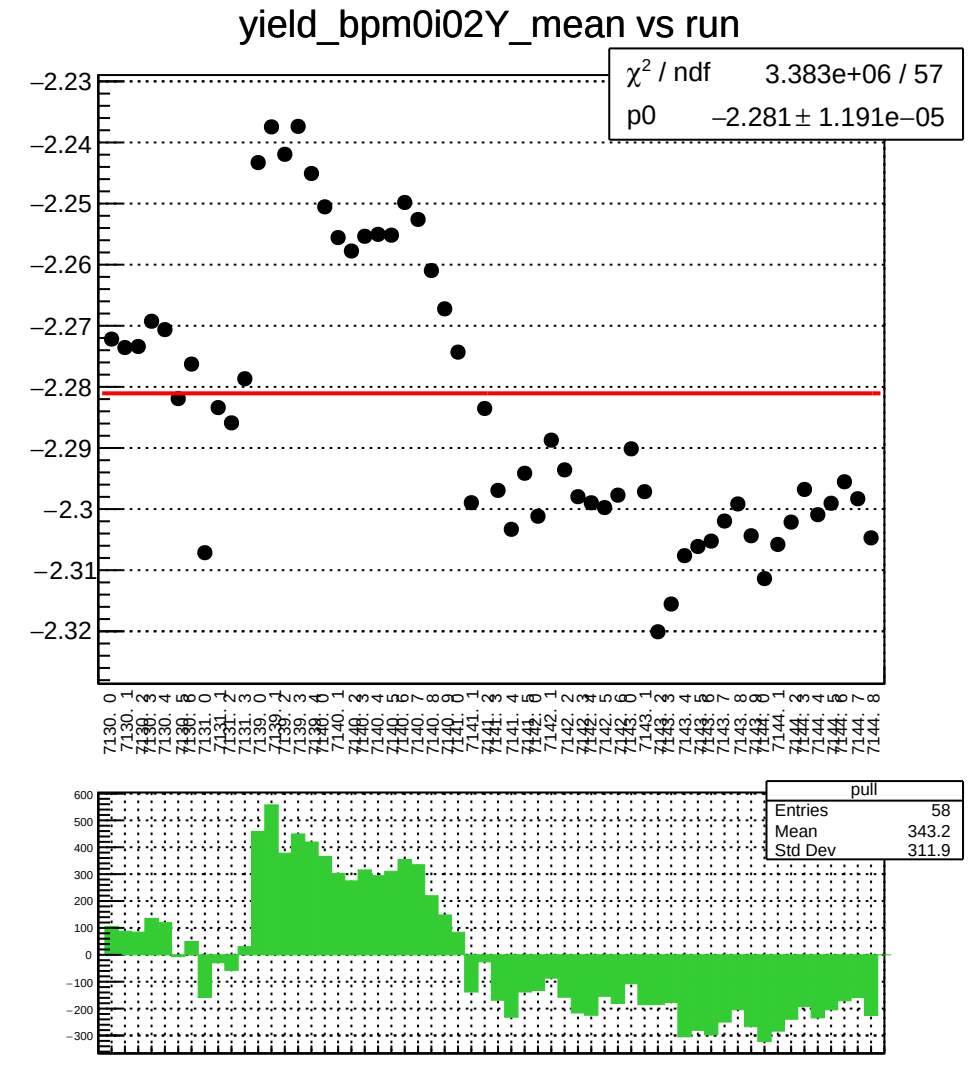

yield_bpm16Y_mean vs run
χ² / ndf 3.497e+04 / 57
p0 −0.2271± 6.87e−06
−0.21
−0.215
−0.22
−0.225
−0.23
−0.235
−0.24
−0.245
pull
Entries 58
Mean 45.34
Std Dev 36.34
80
60
40
20
0
−20
−40
−60

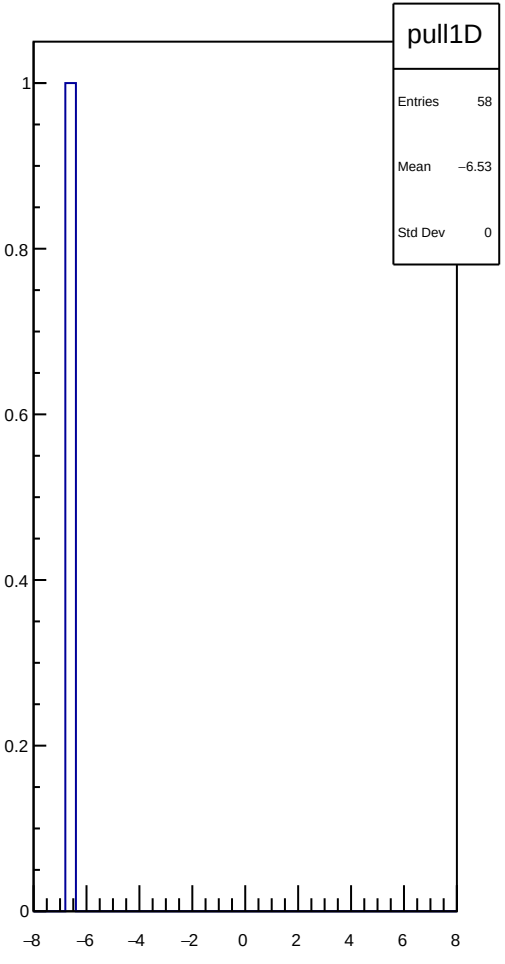

pull1D
Entries 58
Mean −0.05464
Std Dev 4.696
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

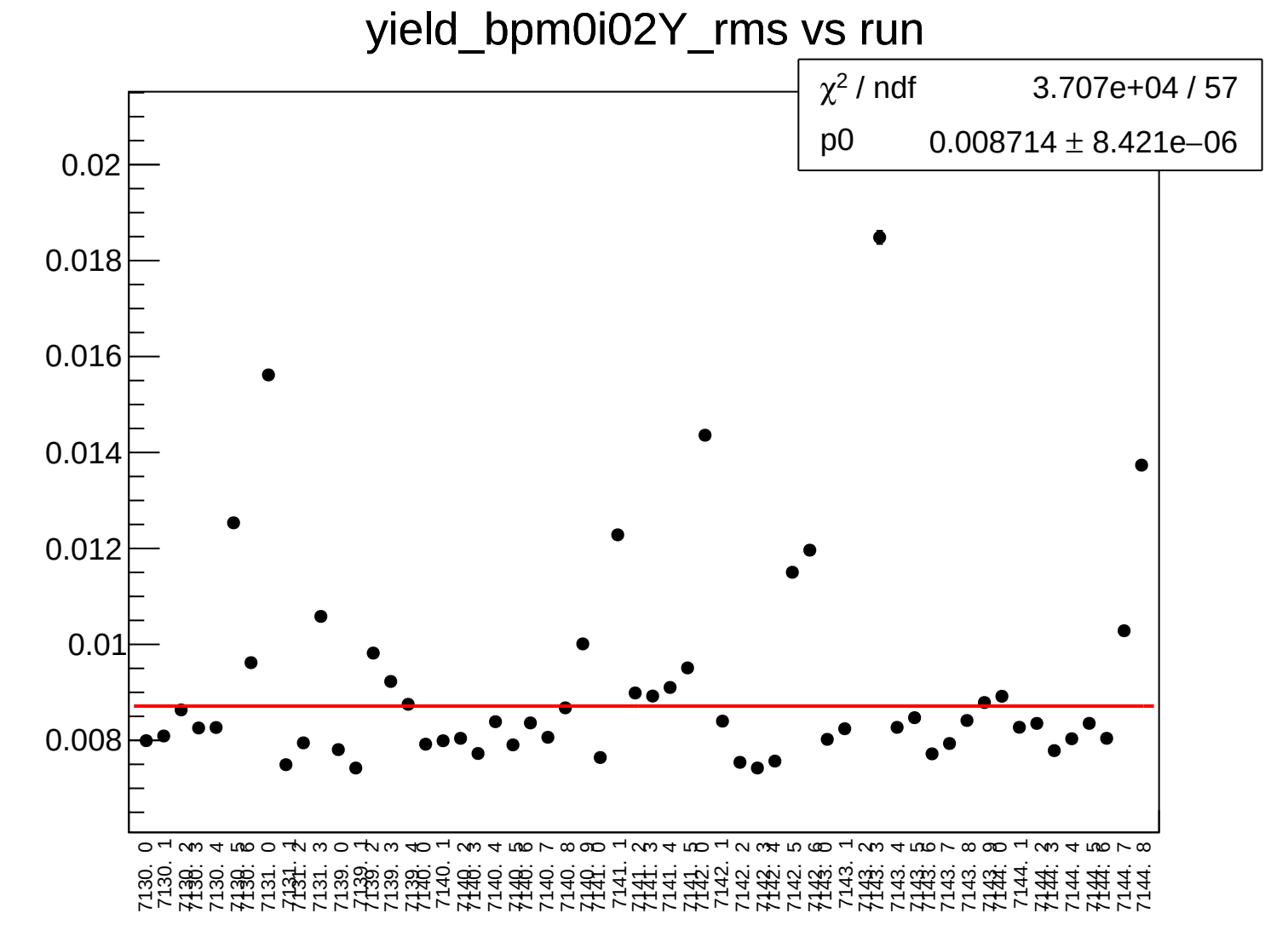

yield_bpm16Y_rms vs run
χ² / ndf 7.105e+04 / 57
p0 0.004946 ± 4.858e−06
0.025
0.02
0.015
0.01
0.005

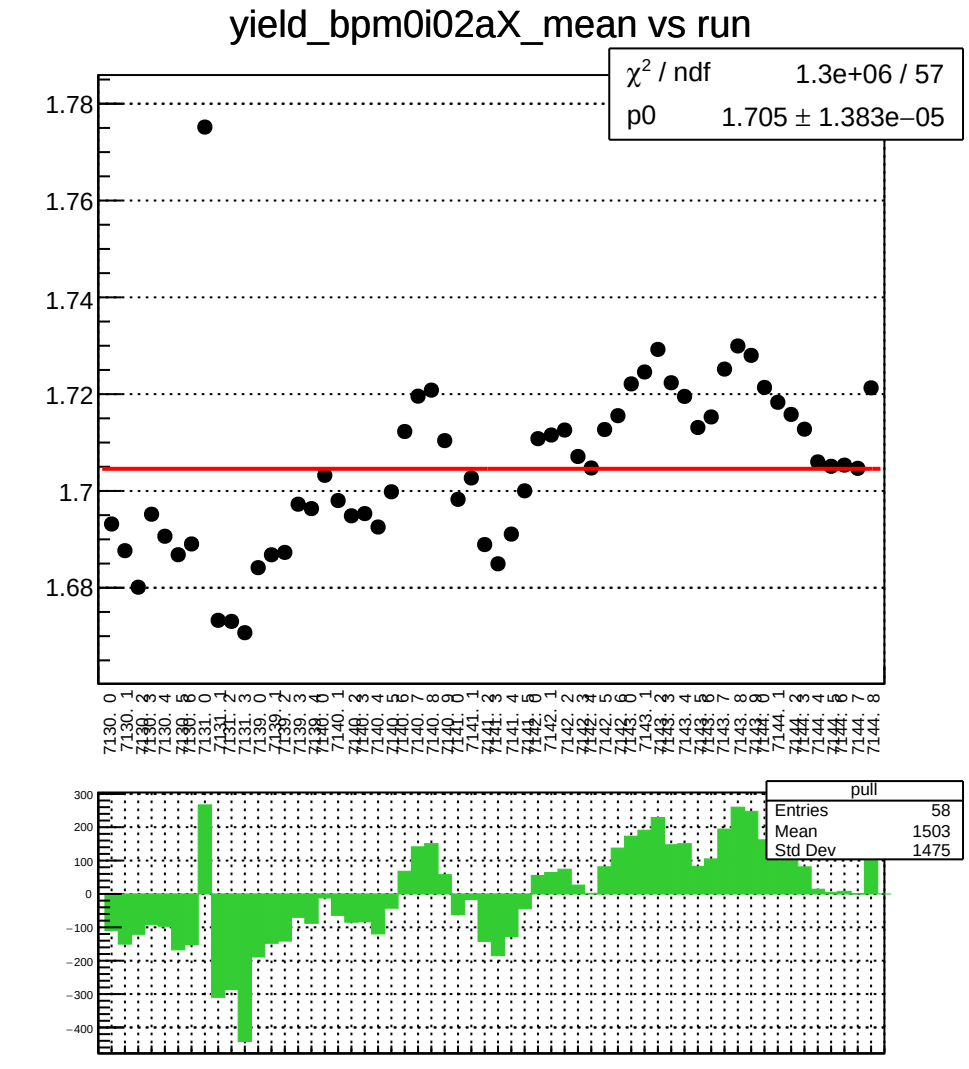

yield_bpm0i02X_mean vs run
χ² / ndf 7.636e+05 / 57
p0 −0.06414 ± 7.547e−06
pull
Entries 58
Mean −61.62
Std Dev 81.42
pull1D
Entries 58
Mean −0.3098
Std Dev 5.802

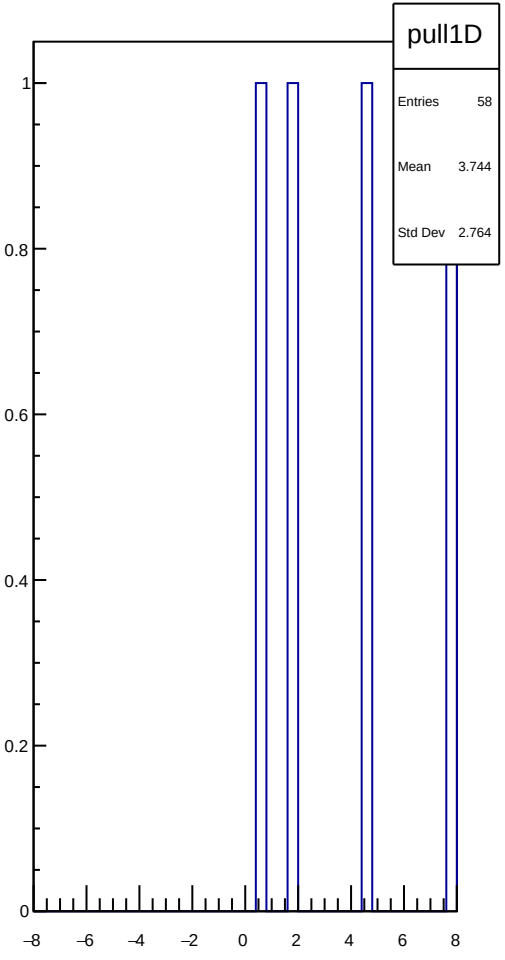

yield_bpm0i02X_rms vs run
χ² / ndf 2.758e+04 / 57
p0 0.005547 ± 5.337e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

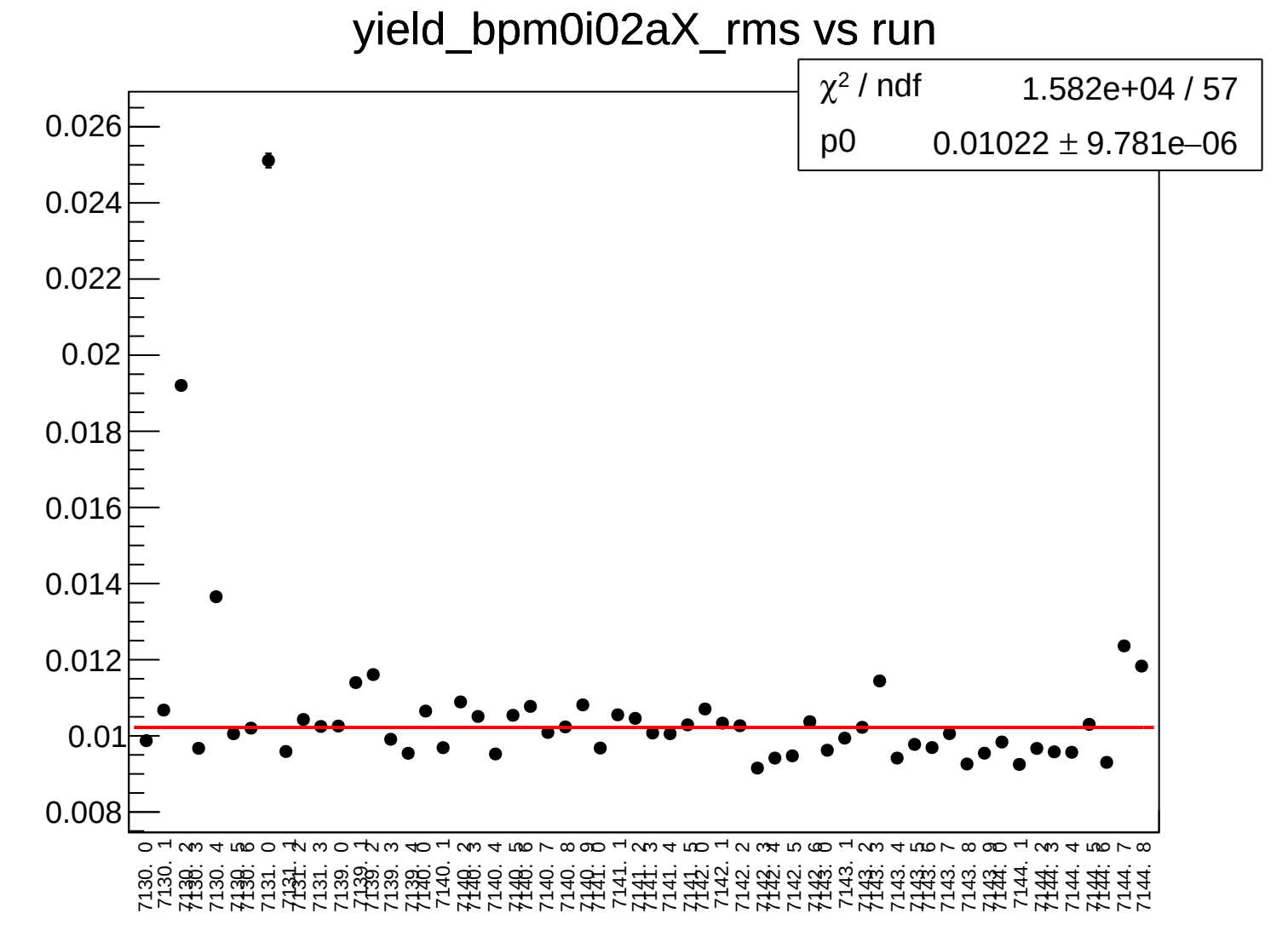

yield_bpm0i02Y_mean vs run
χ² / ndf 3.383e+06 / 57
p0 −2.281 ± 1.191e−05
pull
Entries 58
Mean 343.2
Std Dev 311.9

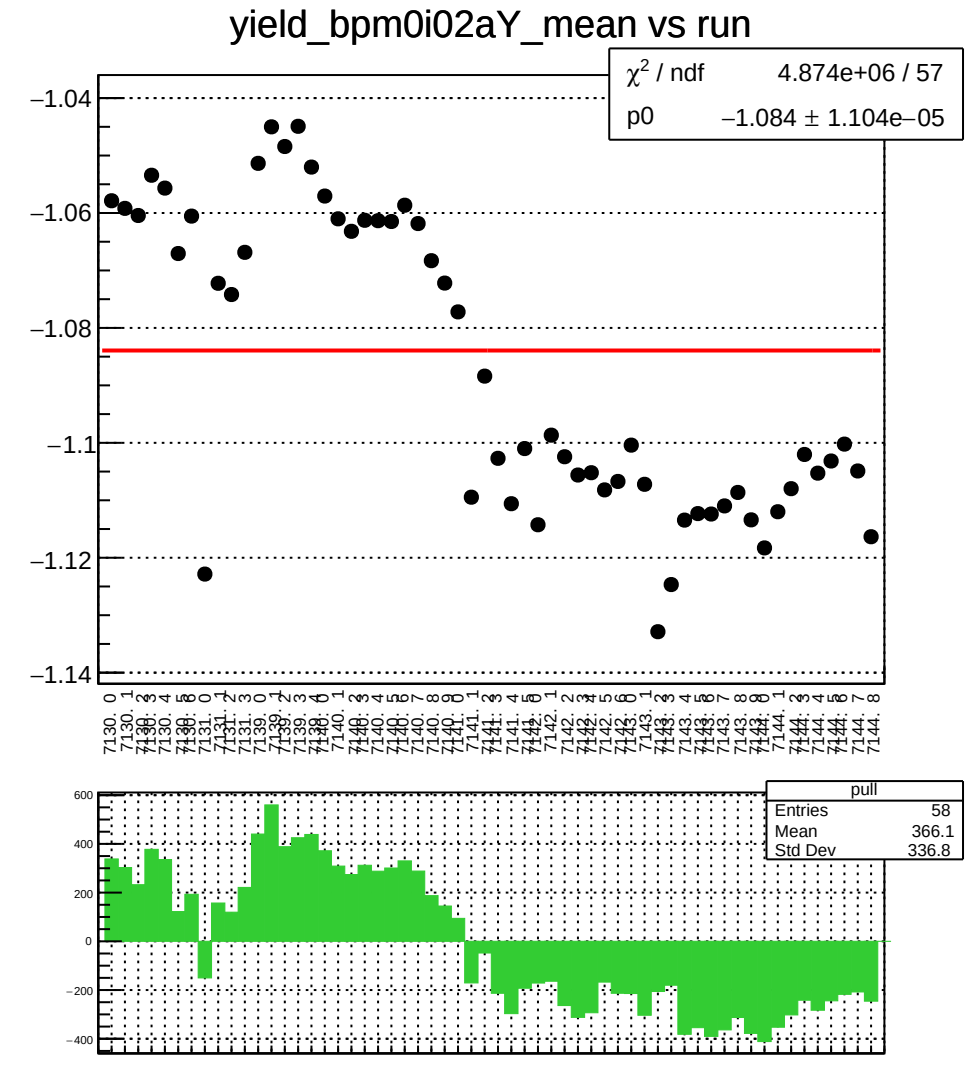

pull1D
Entries 58
Mean −6.53
Std Dev 0

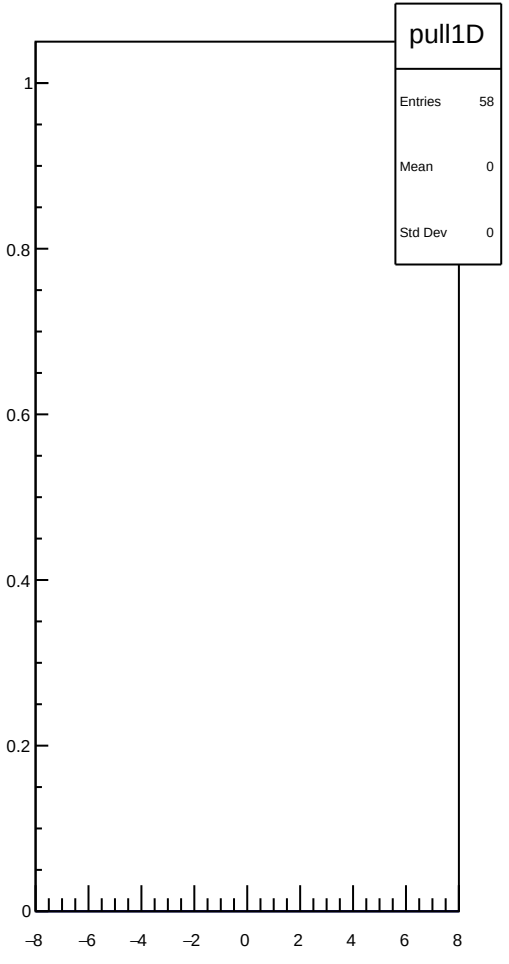

yield_bpm0i02Y_rms vs run
χ² / ndf 3.707e+04 / 57
p0 0.008714 ± 8.421e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

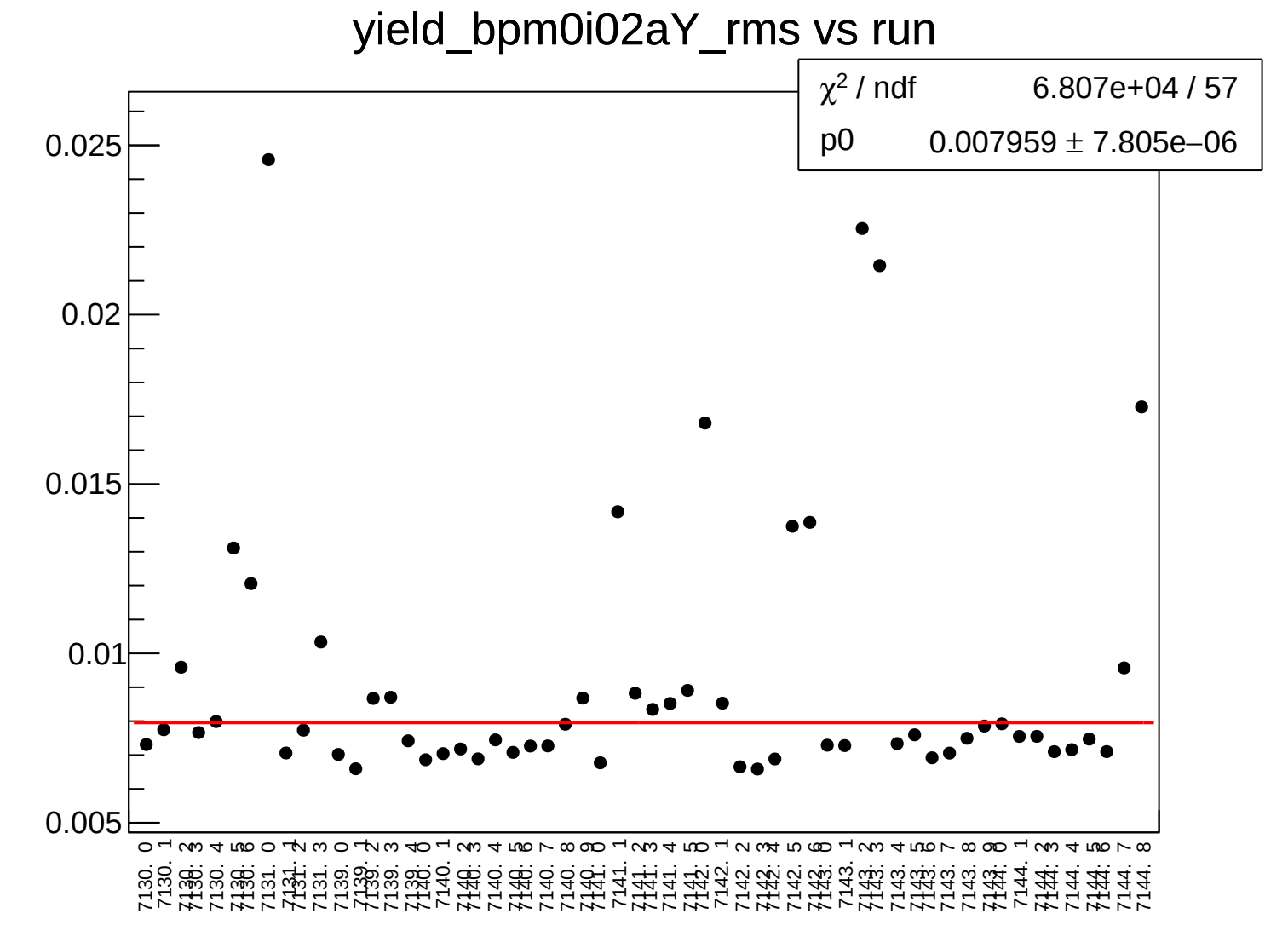

yield_bpm0i02aX_mean vs run
χ² / ndf 1.3e+06 / 57
p0 1.705 ± 1.383e−05
1.78
1.76
1.74
1.72
1.7
1.68
pull
Entries 58
Mean 1503
Std Dev 1475
300
200
100
0
−100
−200
−300
−400

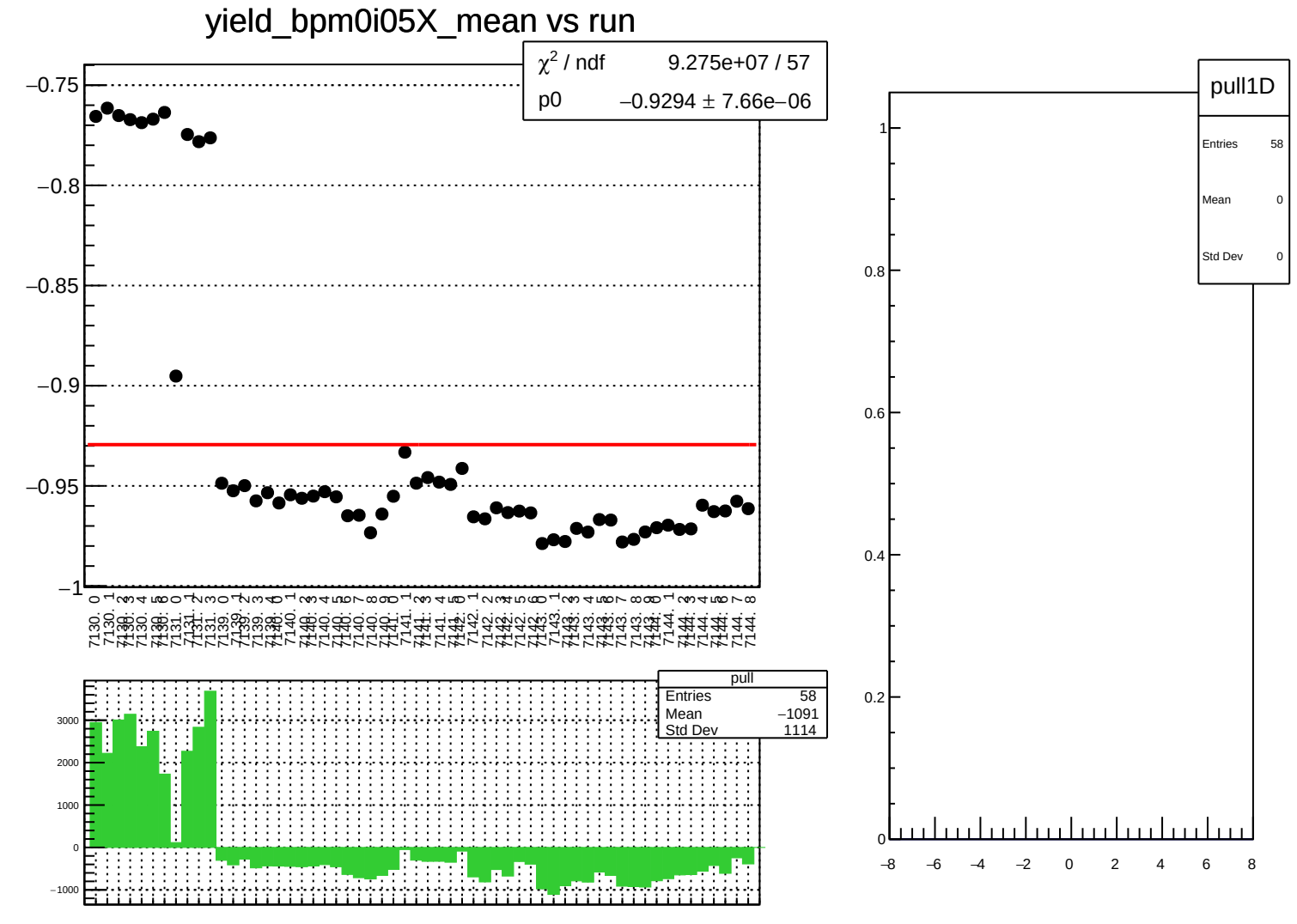

pull1D
Entries 58
Mean 3.744
Std Dev 2.764
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

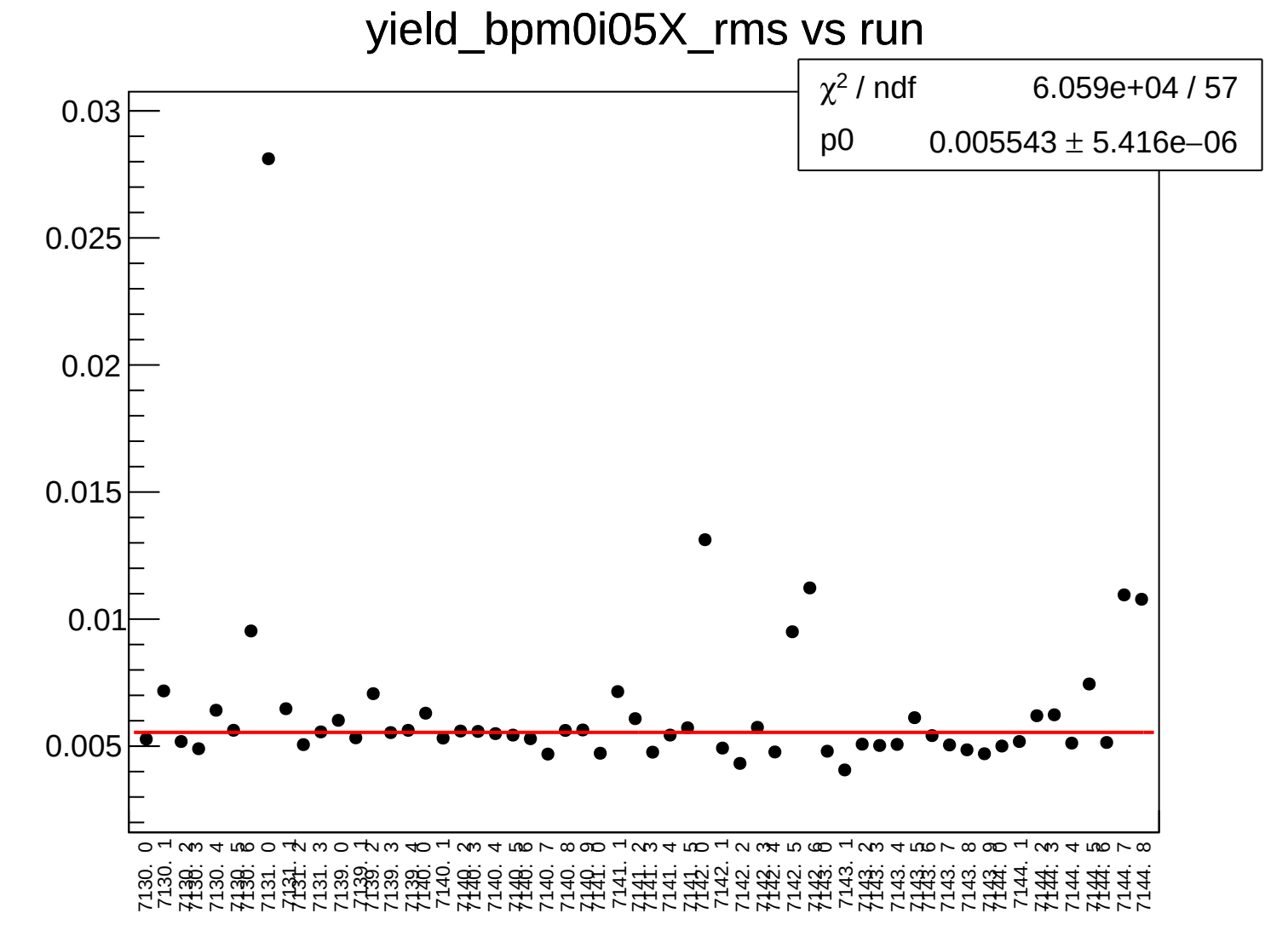

yield_bpm0i02aX_rms vs run
χ² / ndf 1.582e+04 / 57
p0 0.01022 ± 9.781e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

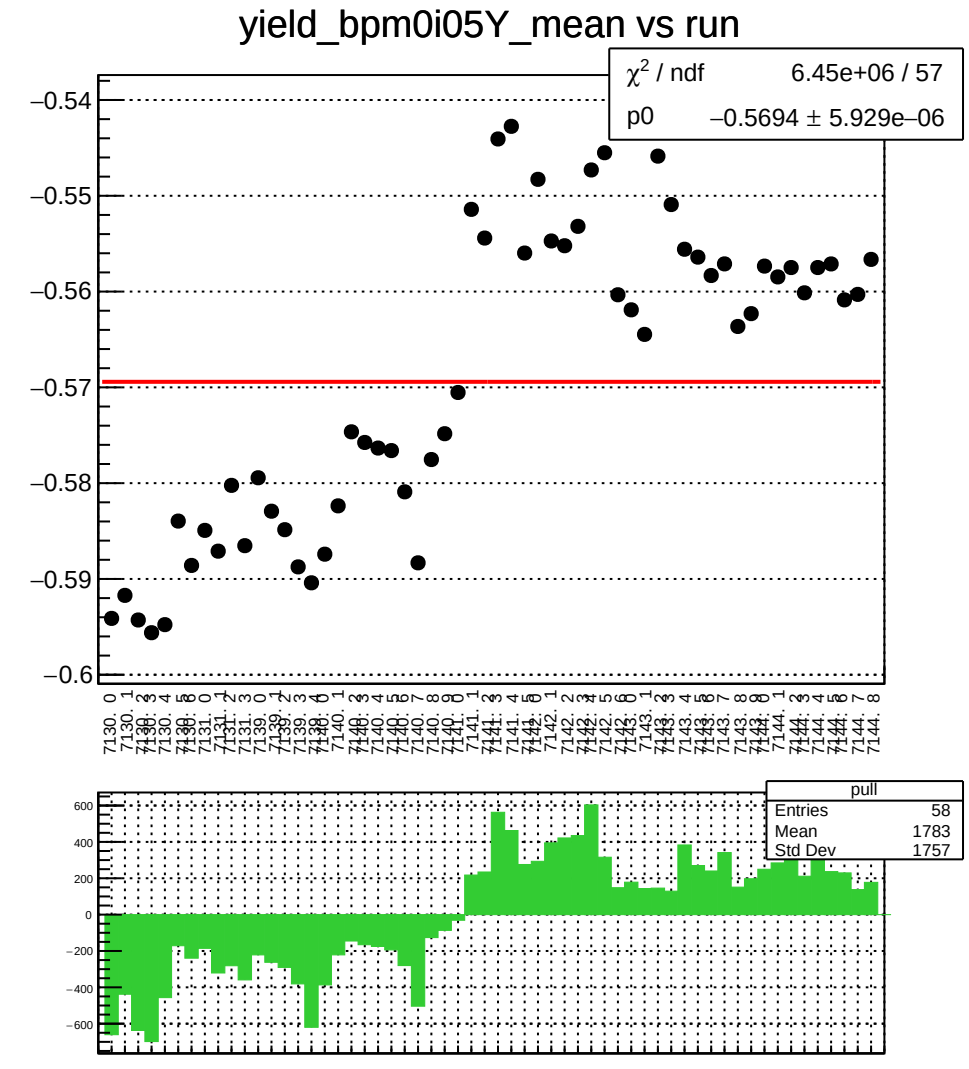

yield_bpm0i02aY_mean vs run
χ² / ndf 4.874e+06 / 57
p0 −1.084 ± 1.104e−05
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
pull
Entries 58
Mean 366.1
Std Dev 336.8
600
400
200
0
−200
−400

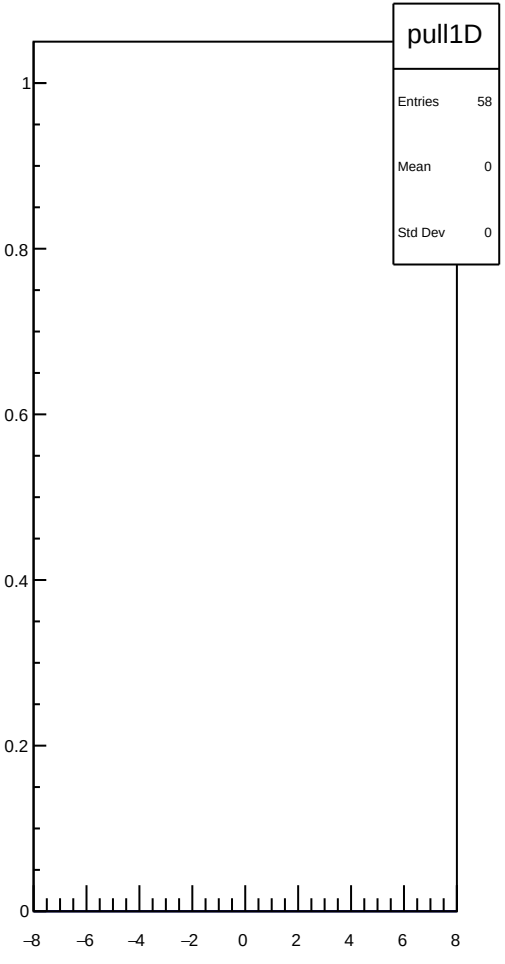

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

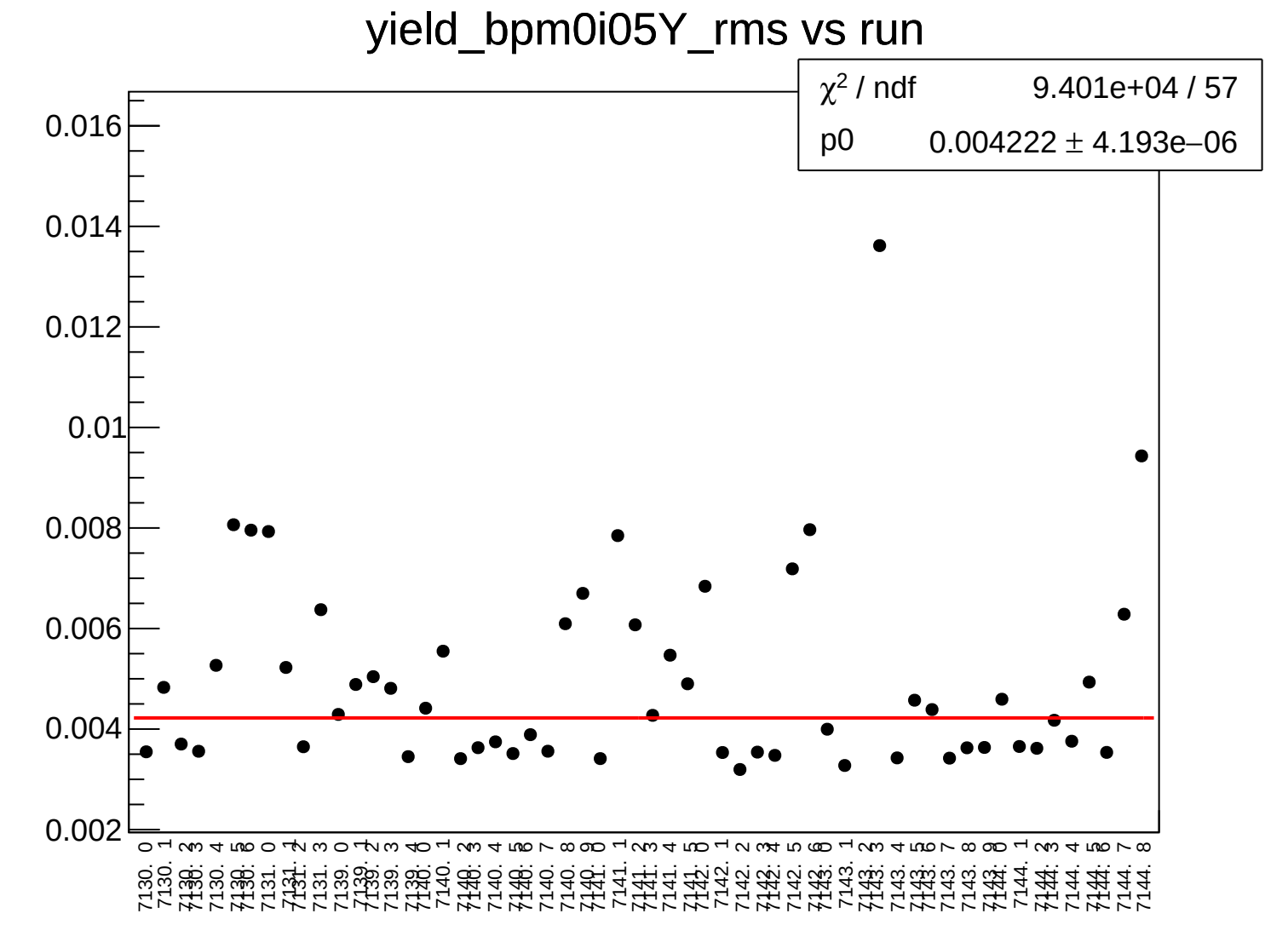

yield_bpm0i02aY_rms vs run
χ² / ndf 6.807e+04 / 57
p0 0.007959 ± 7.805e−06
0.025
0.02
0.015
0.01
0.005

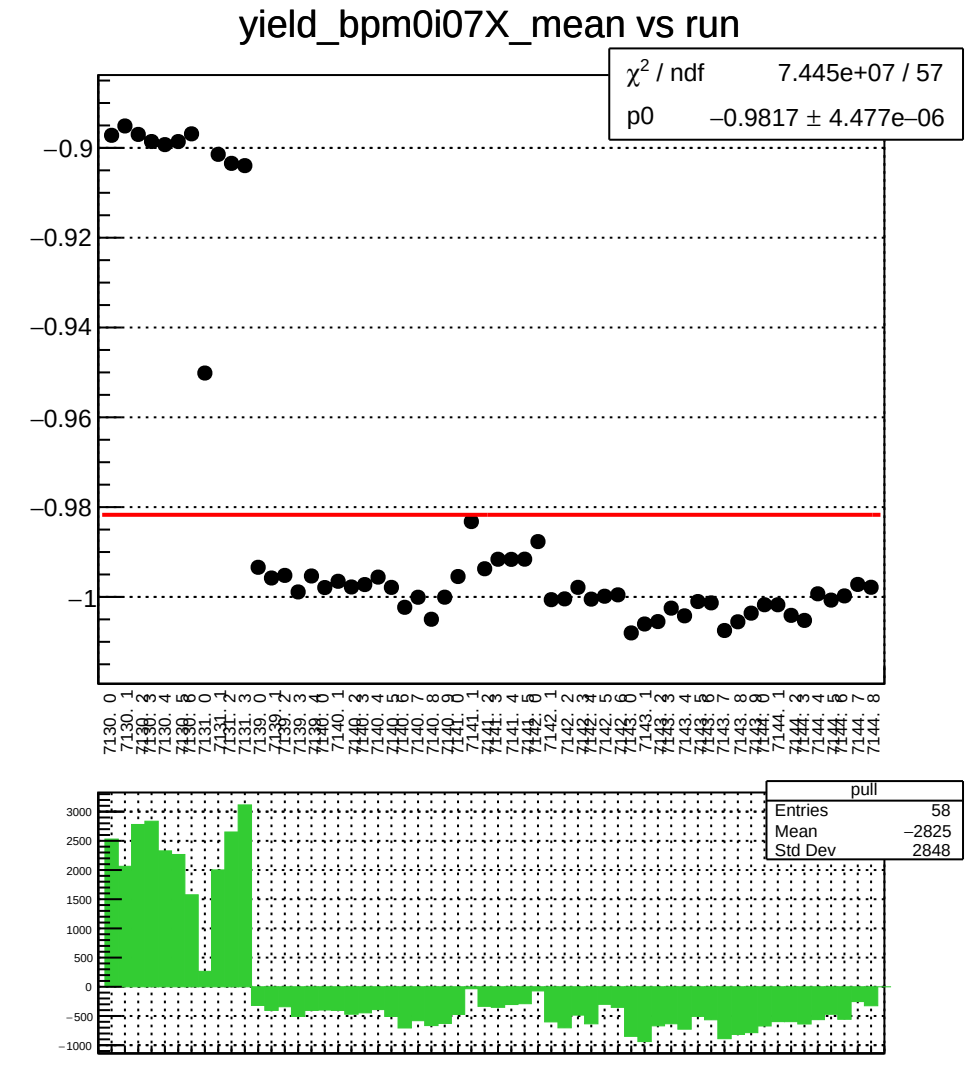

yield_bpm0i05X_mean vs run
χ² / ndf 9.275e+07 / 57
p0 −0.9294 ± 7.66e−06
−0.75
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 58
Mean −1091
Std Dev 1114
3000
2000
1000
0
−1000
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

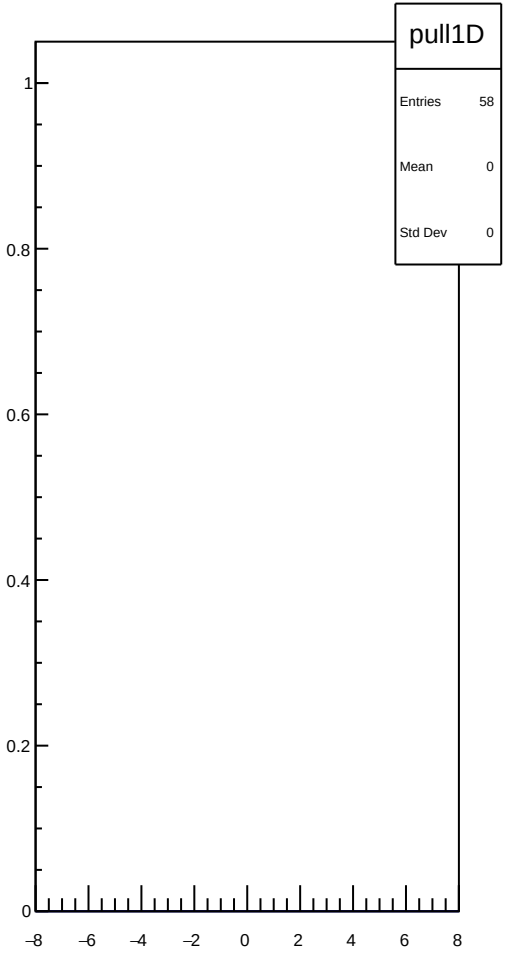

yield_bpm0i05X_rms vs run
χ^2 / ndf 6.059e+04 / 57
p0 0.005543 ± 5.416e−06
0.03
0.025
0.02
0.015
0.01
0.005

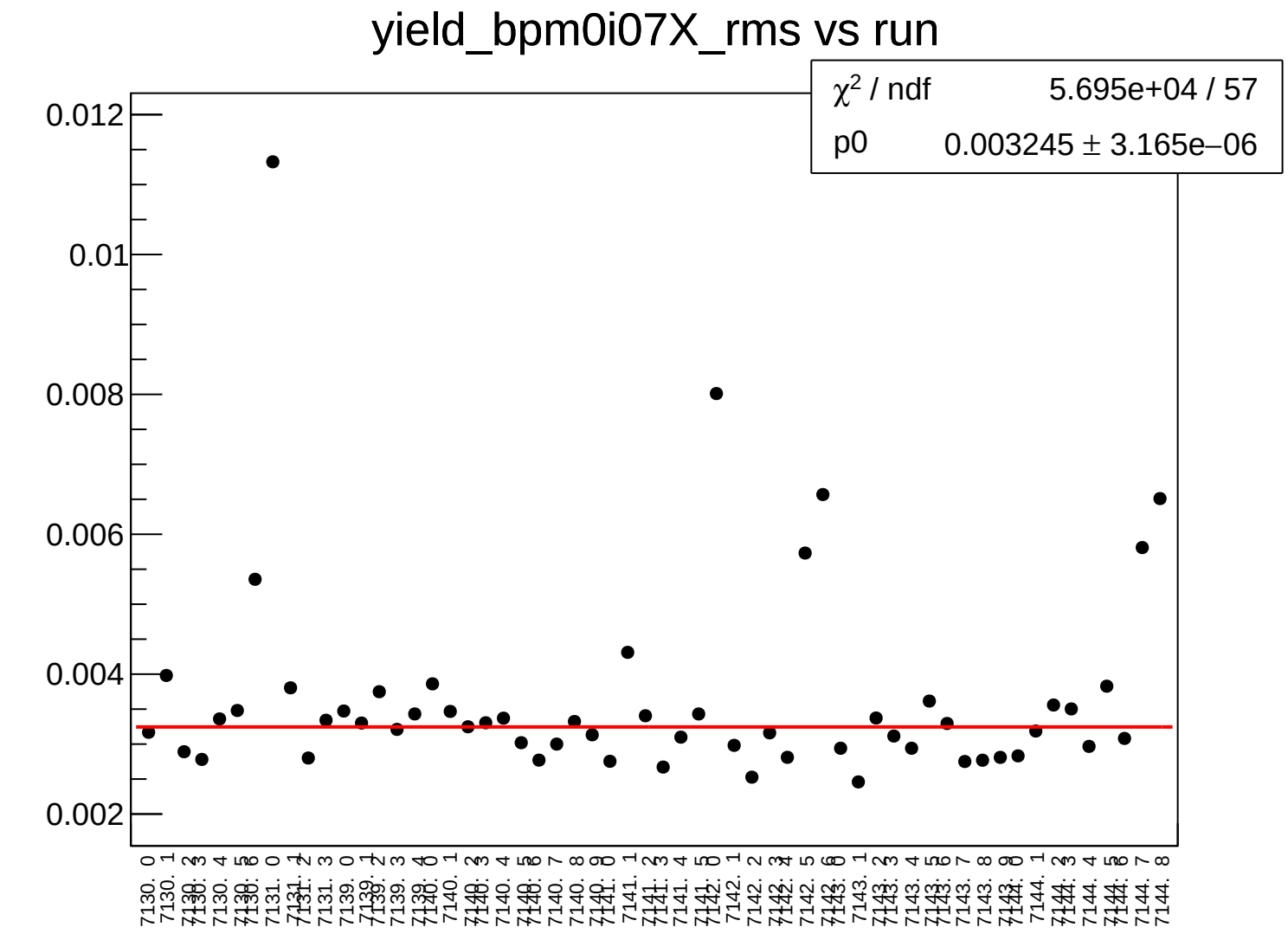

yield_bpm0i05Y_mean vs run
χ² / ndf 6.45e+06 / 57
p0 −0.5694 ± 5.929e−06
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
pull
Entries 58
Mean 1783
Std Dev 1757
600
400
200
0
−200
−400
−600

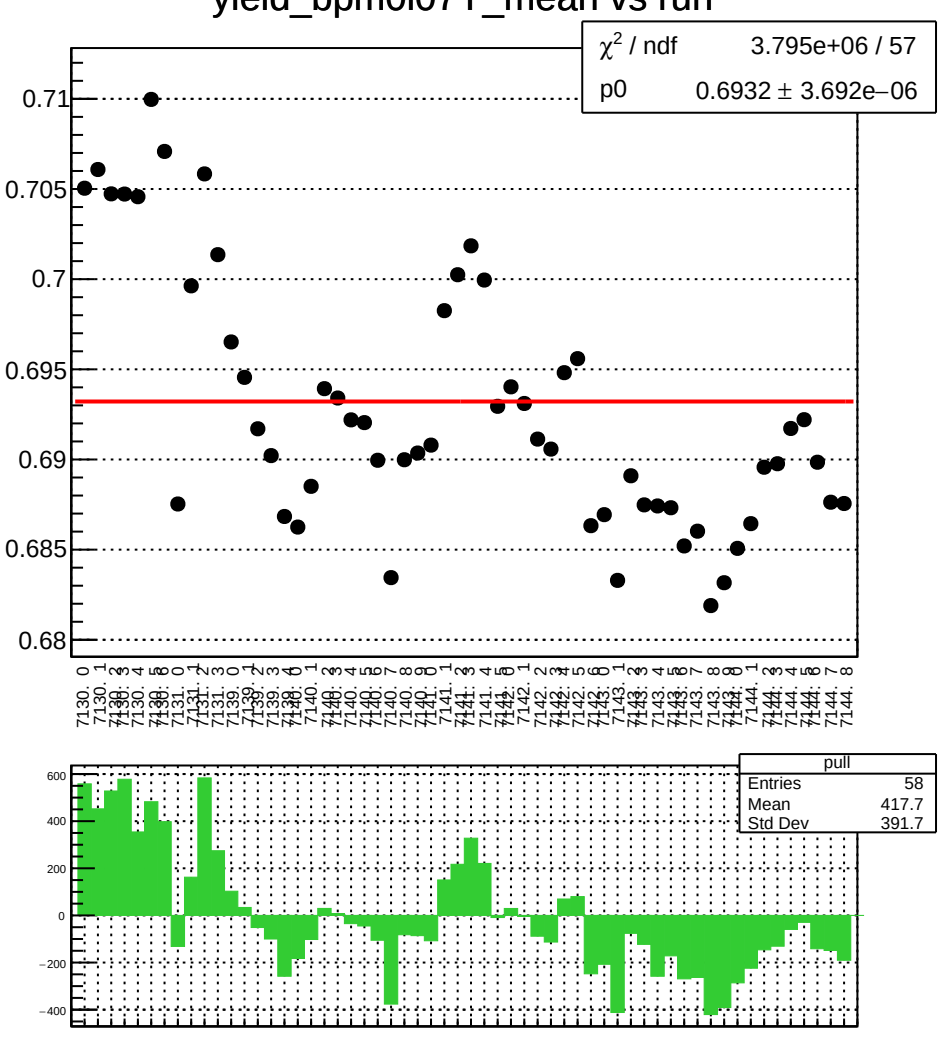

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

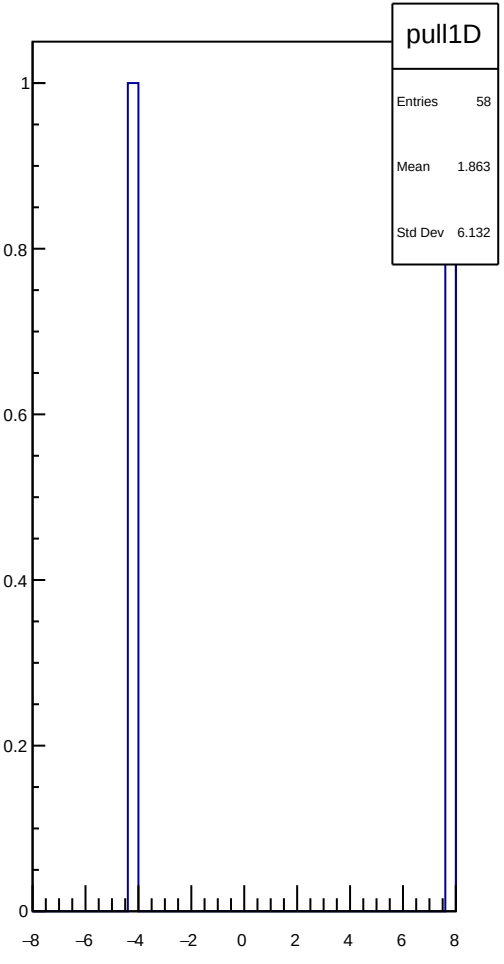

yield_bpm0i05Y_rms vs run
χ^2 / ndf 9.401e+04 / 57
p0 0.004222 ± 4.193e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

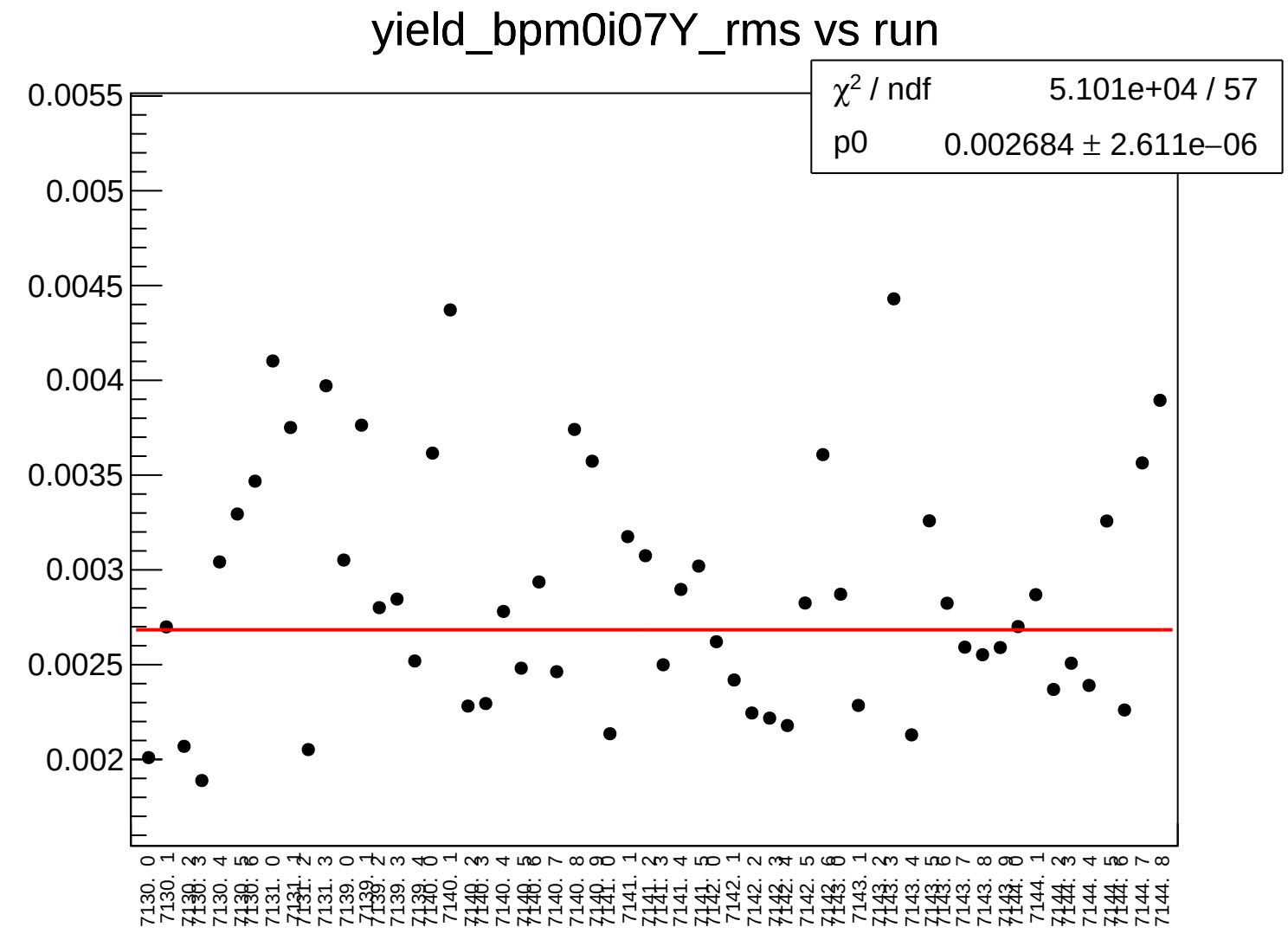

yield_bpm0i07X_mean vs run
χ² / ndf 7.445e+07 / 57
p0 −0.9817 ± 4.477e−06
−0.9
−0.92
−0.94
−0.96
−0.98
−1
pull
Entries 58
Mean −2825
Std Dev 2848
3000
2500
2000
1500
1000
500
0
−500
−1000

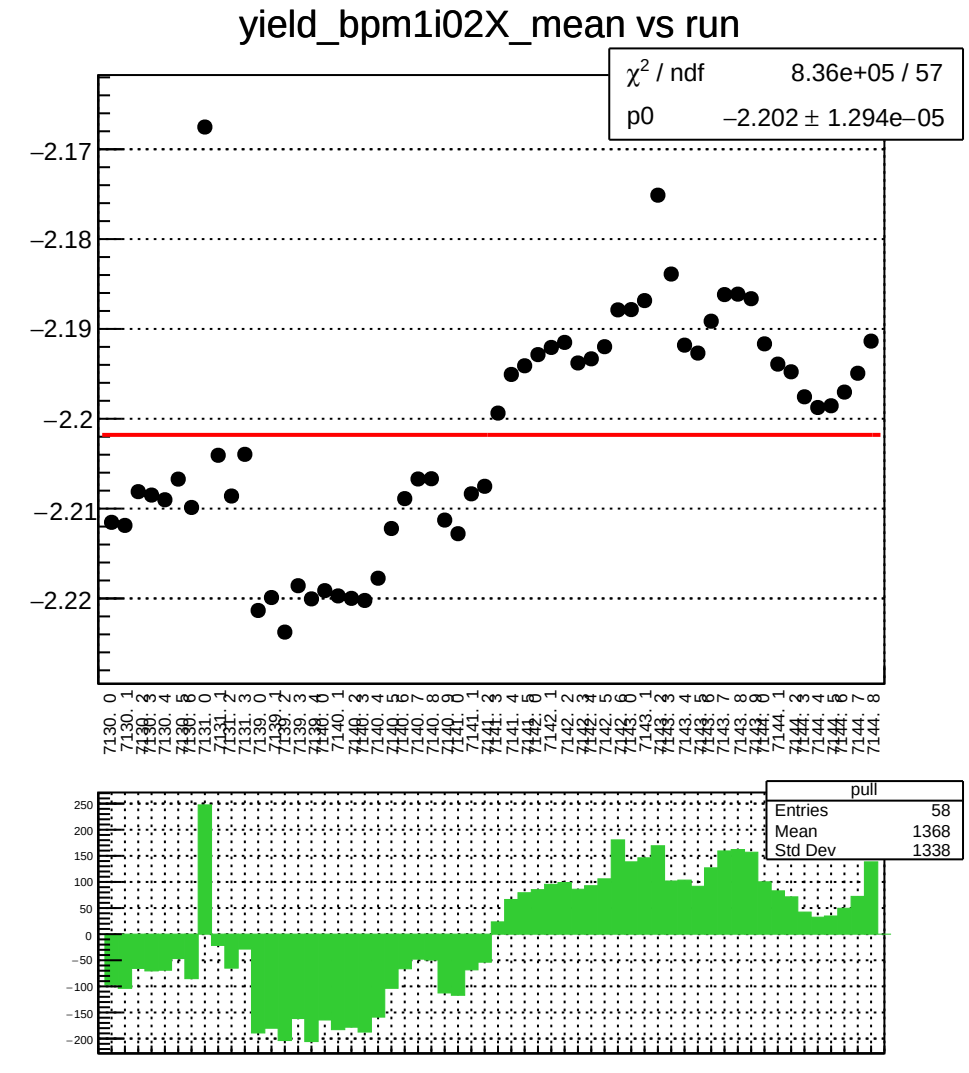

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

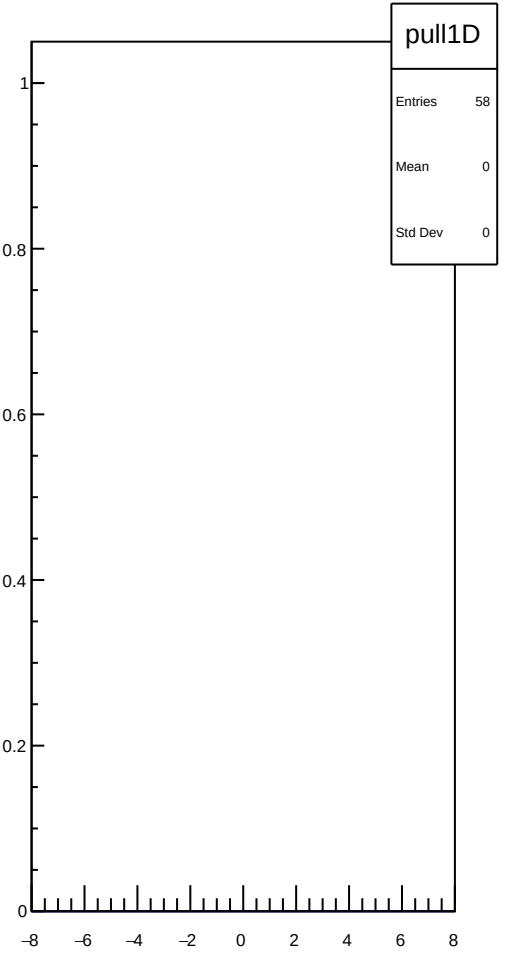

yield_bpm0i07X_rms vs run
χ² / ndf 5.695e+04 / 57
p0 0.003245 ± 3.165e−06
0.012
0.01
0.008
0.006
0.004
0.002

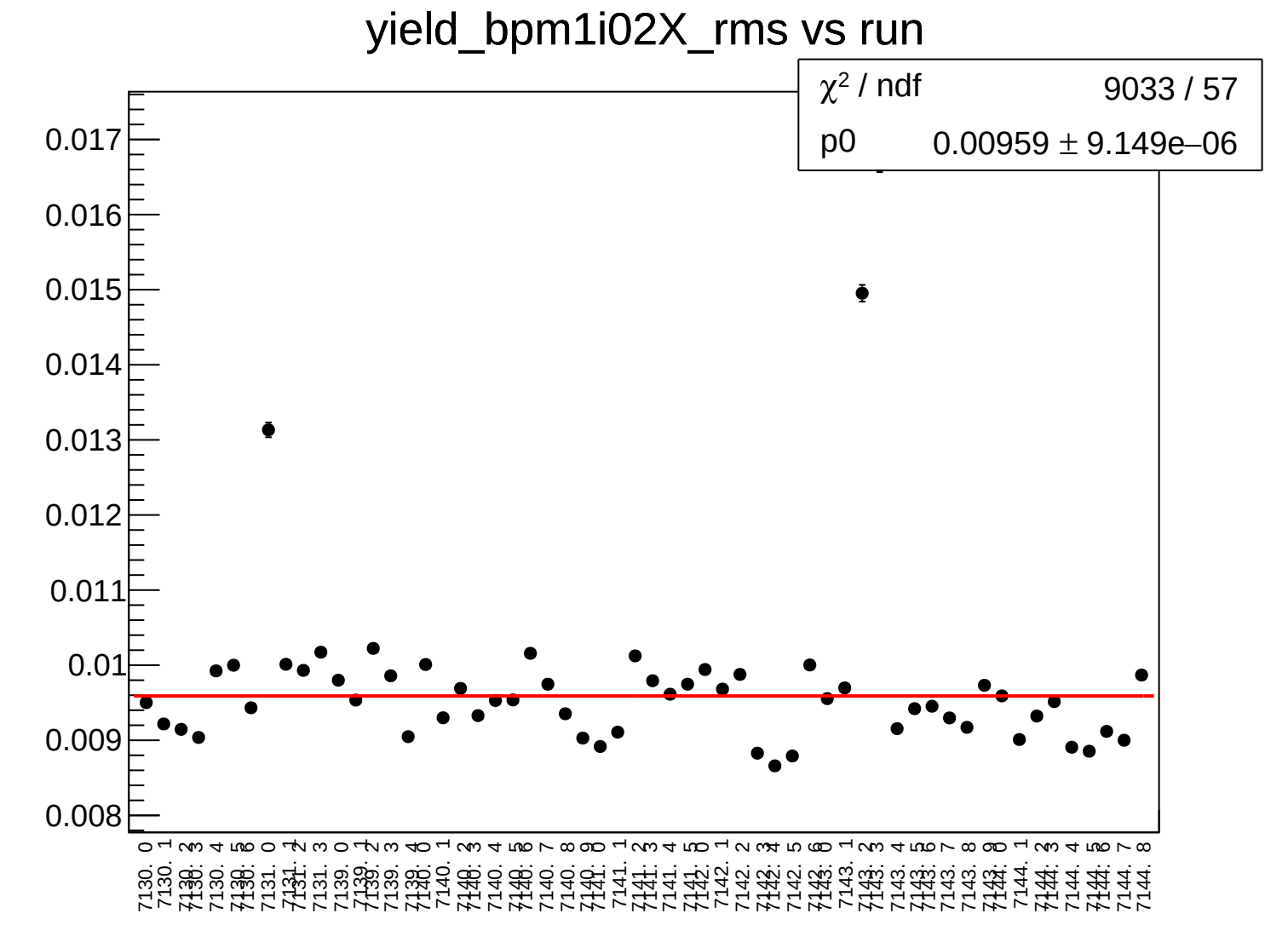

yield_bpm0i07Y_mean vs run
χ² / ndf 3.795e+06 / 57
p0 0.6932 ± 3.692e−06
0.71
0.705
0.7
0.695
0.69
0.685
0.68
pull
Entries 58
Mean 417.7
Std Dev 391.7
600
400
200
0
−200
−400

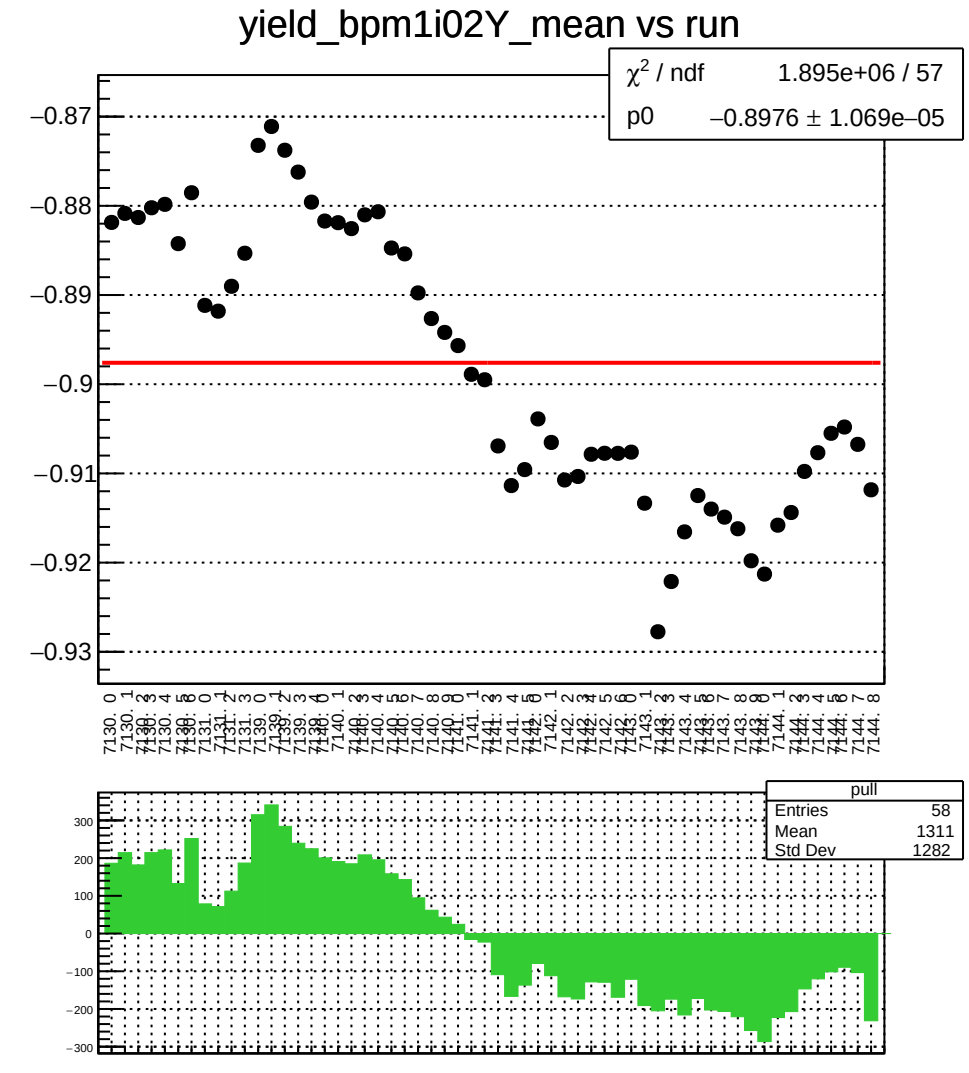

pull1D
Entries 58
Mean 1.863
Std Dev 6.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

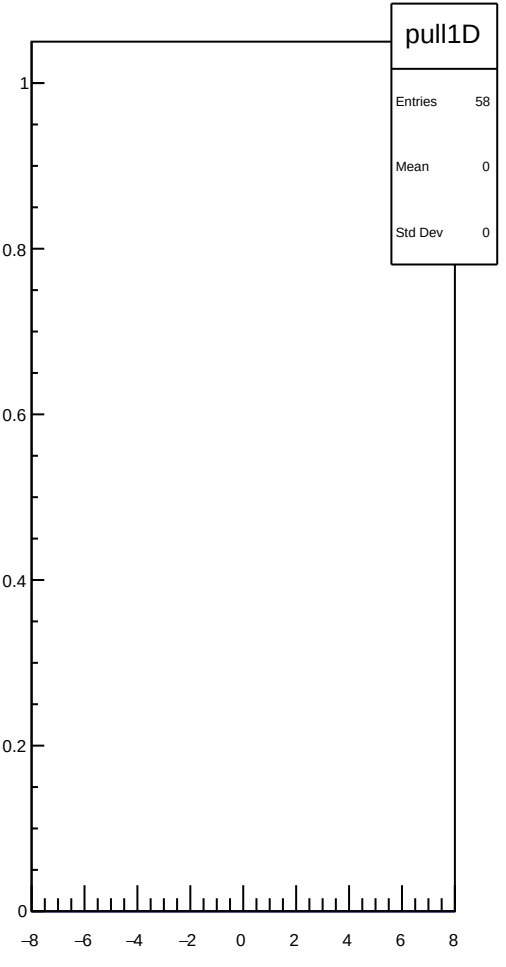

yield_bpm0i07Y_rms vs run
χ² / ndf 5.101e+04 / 57
p0 0.002684 ± 2.611e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

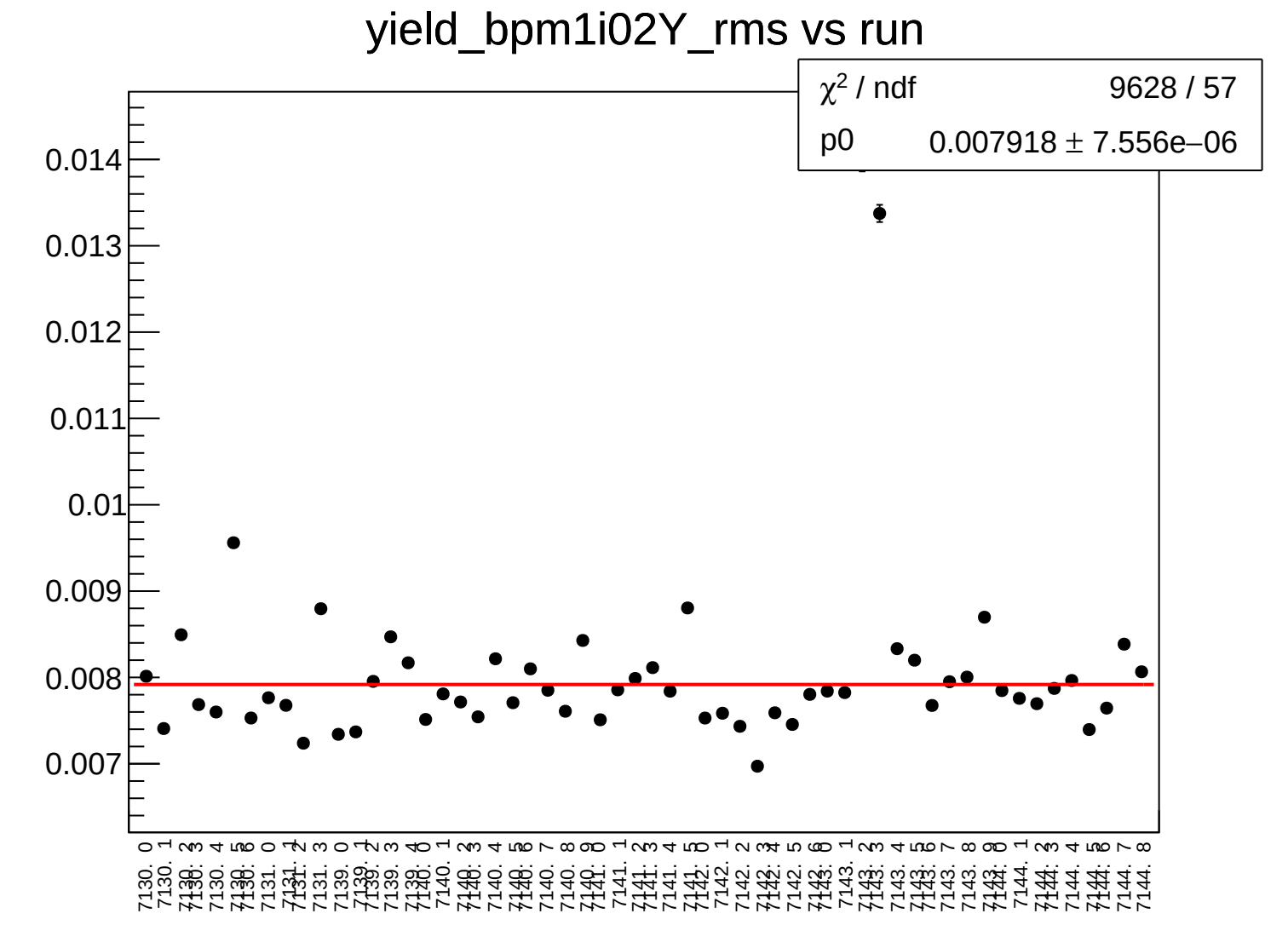

yield_bpm1i02X_mean vs run
χ² / ndf 8.36e+05 / 57
p0 −2.202 ± 1.294e−05
−2.17
−2.18
−2.19
−2.2
−2.21
−2.22
pull
Entries 58
Mean 1368
Std Dev 1338
250
200
150
100
50
0
−50
−100
−150
−200

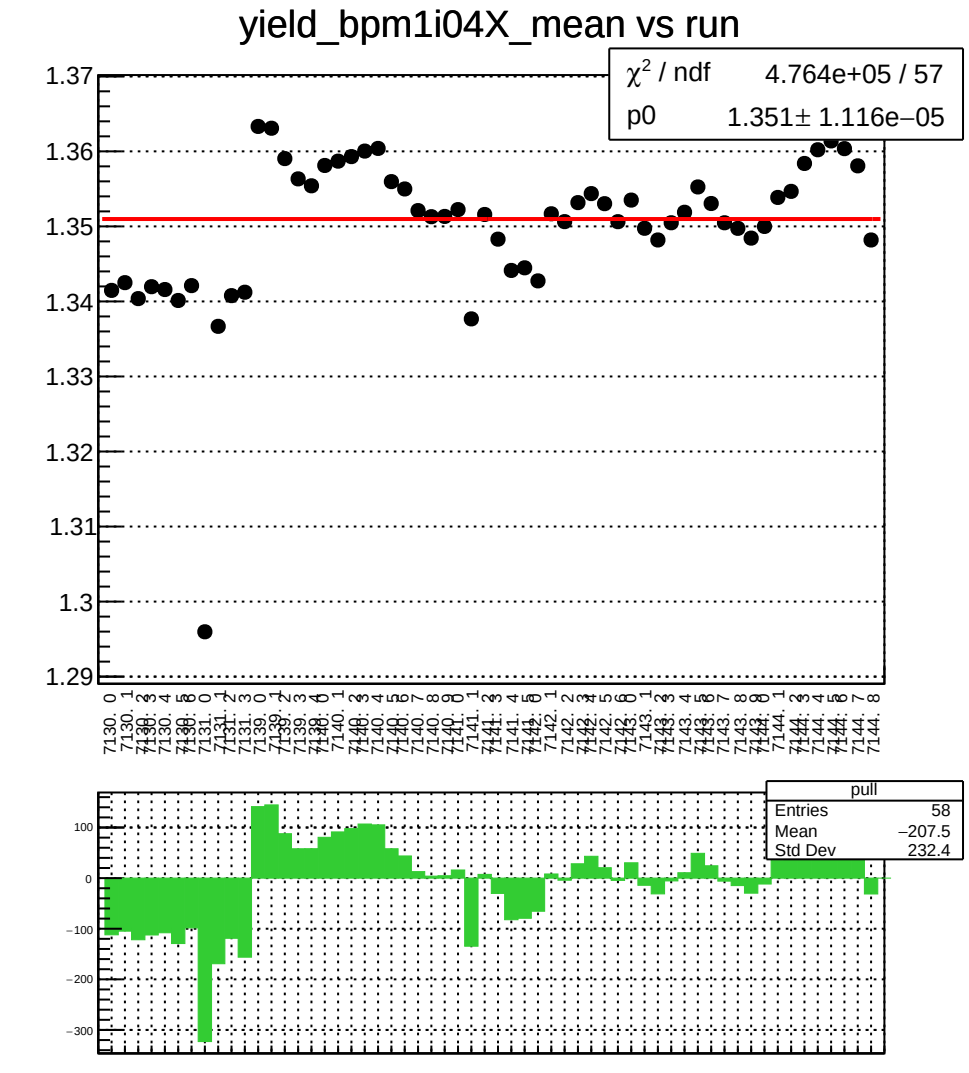

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

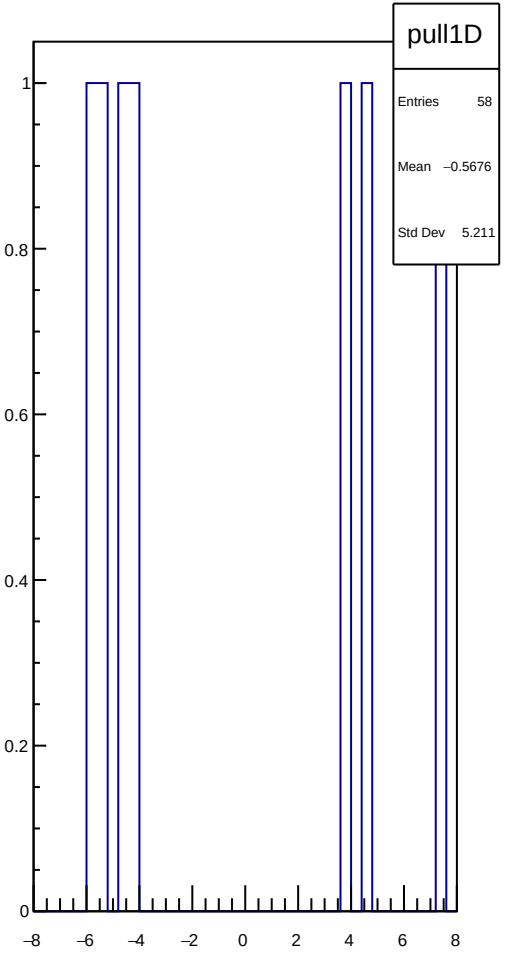

yield_bpm1i02X_rms vs run
χ² / ndf 9033 / 57
p0 0.00959 ± 9.149e−06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

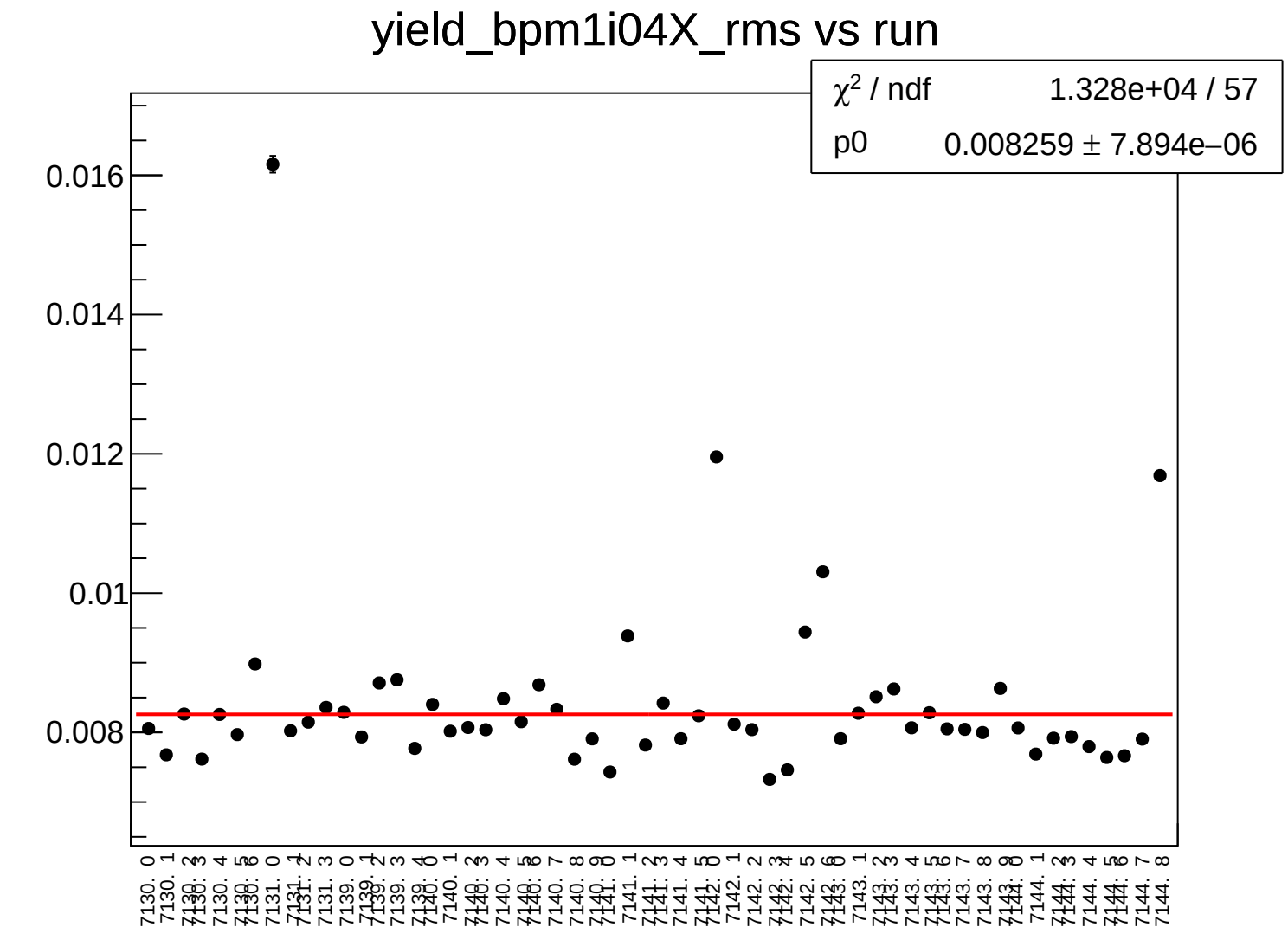

yield_bpm1i02Y_mean vs run
χ² / ndf 1.895e+06 / 57
p0 −0.8976 ± 1.069e−05
−0.87
−0.88
−0.89
−0.9
−0.91
−0.92
−0.93
pull
Entries 58
Mean 1311
Std Dev 1282
300
200
100
0
−100
−200
−300

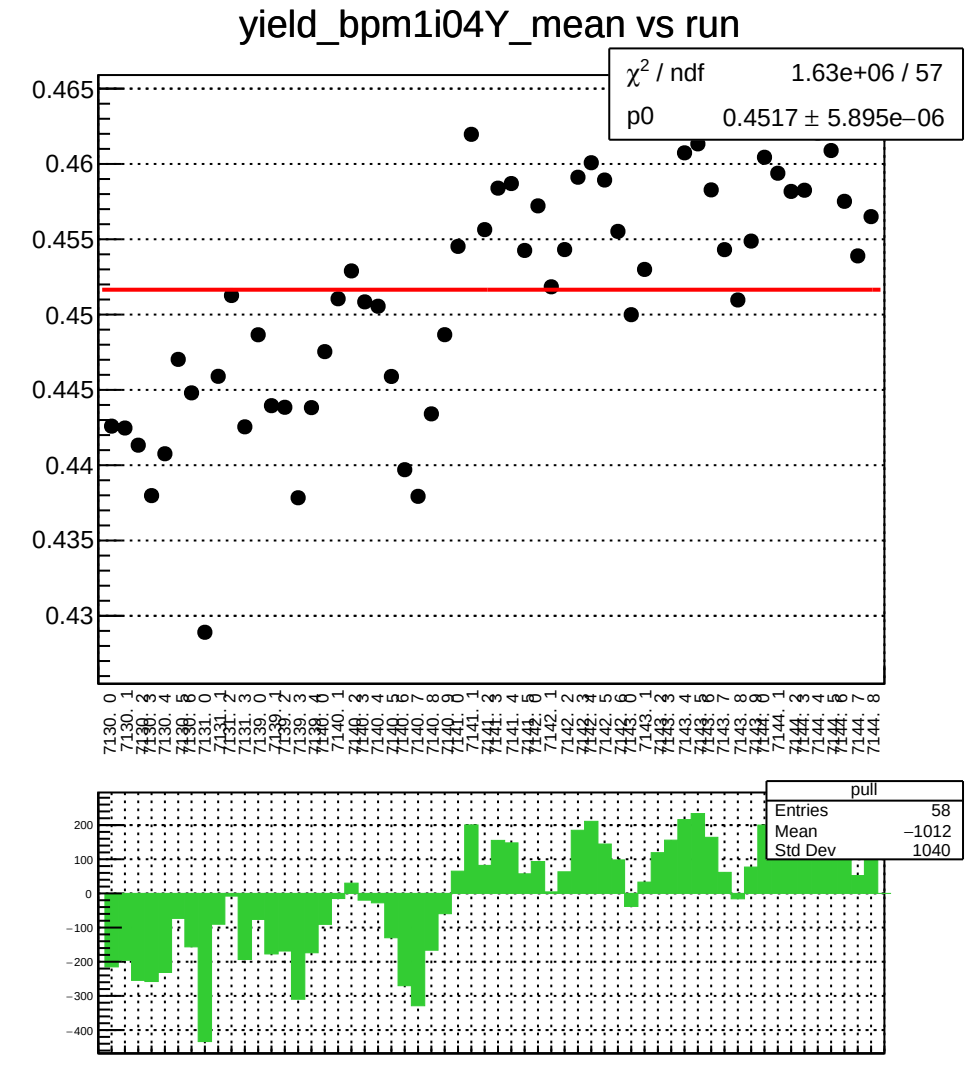

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

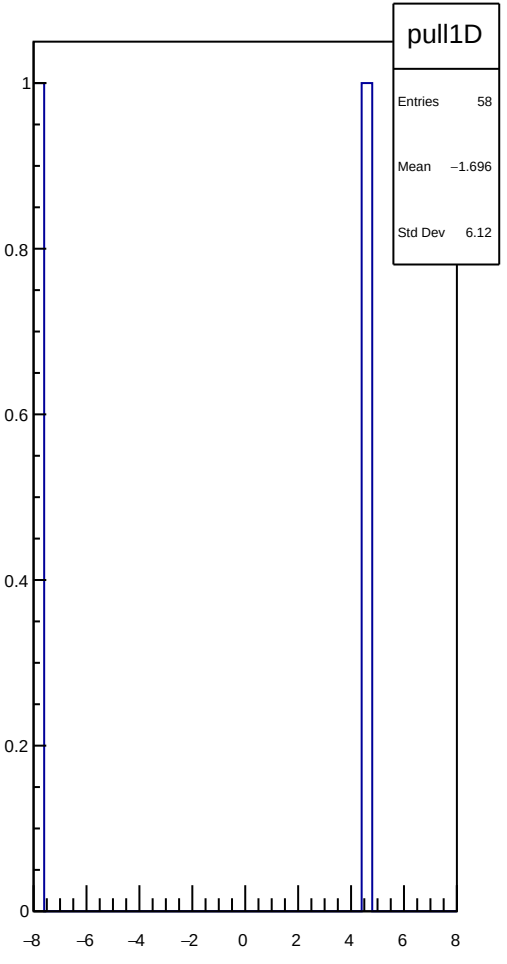

yield_bpm1i02Y_rms vs run
χ^2 / ndf 9628 / 57
p0 0.007918 ± 7.556e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

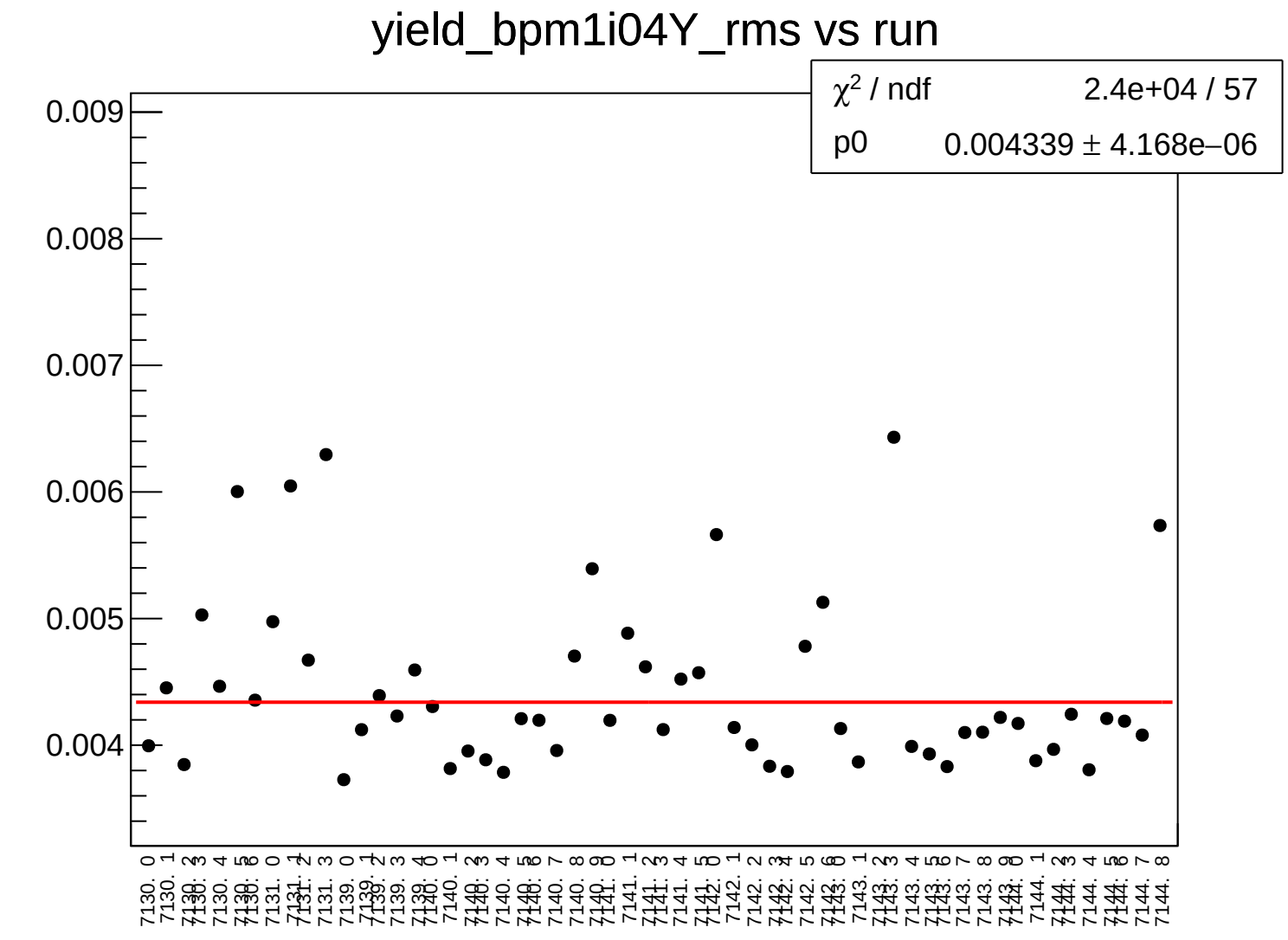

yield_bpm1i04X_mean vs run
χ² / ndf 4.764e+05 / 57
p0 1.351± 1.116e−05
1.37
1.36
1.35
1.34
1.33
1.32
1.31
1.3
1.29
pull
Entries 58
Mean −207.5
Std Dev 232.4
100
0
−100
−200
−300

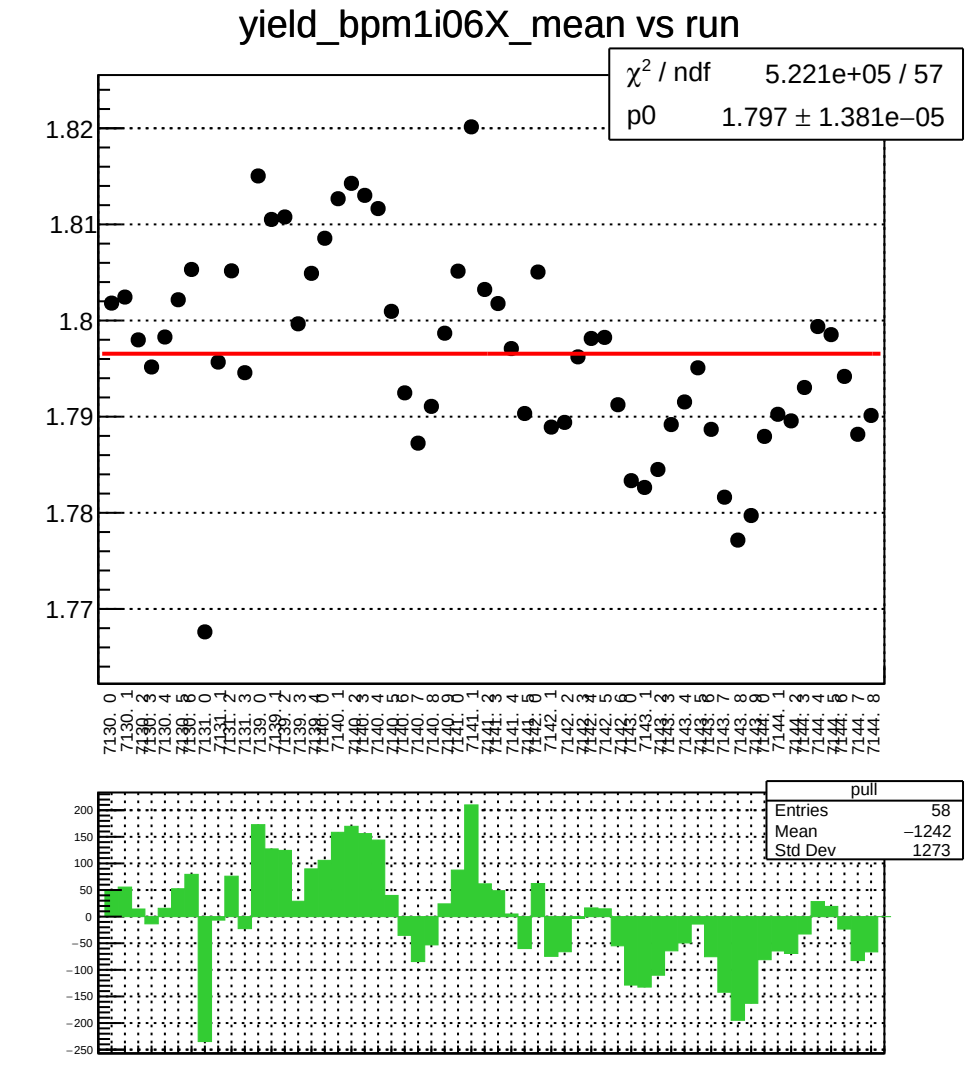

pull1D
Entries 58
Mean −0.5676
Std Dev 5.211
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

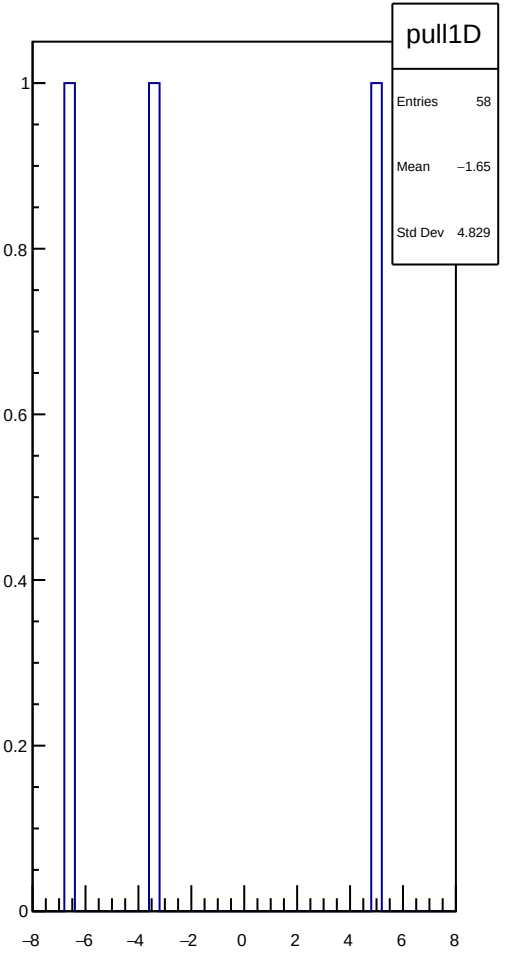

yield_bpm1i04X_rms vs run
χ² / ndf 1.328e+04 / 57
p0 0.008259 ± 7.894e−06
0.016
0.014
0.012
0.01
0.008

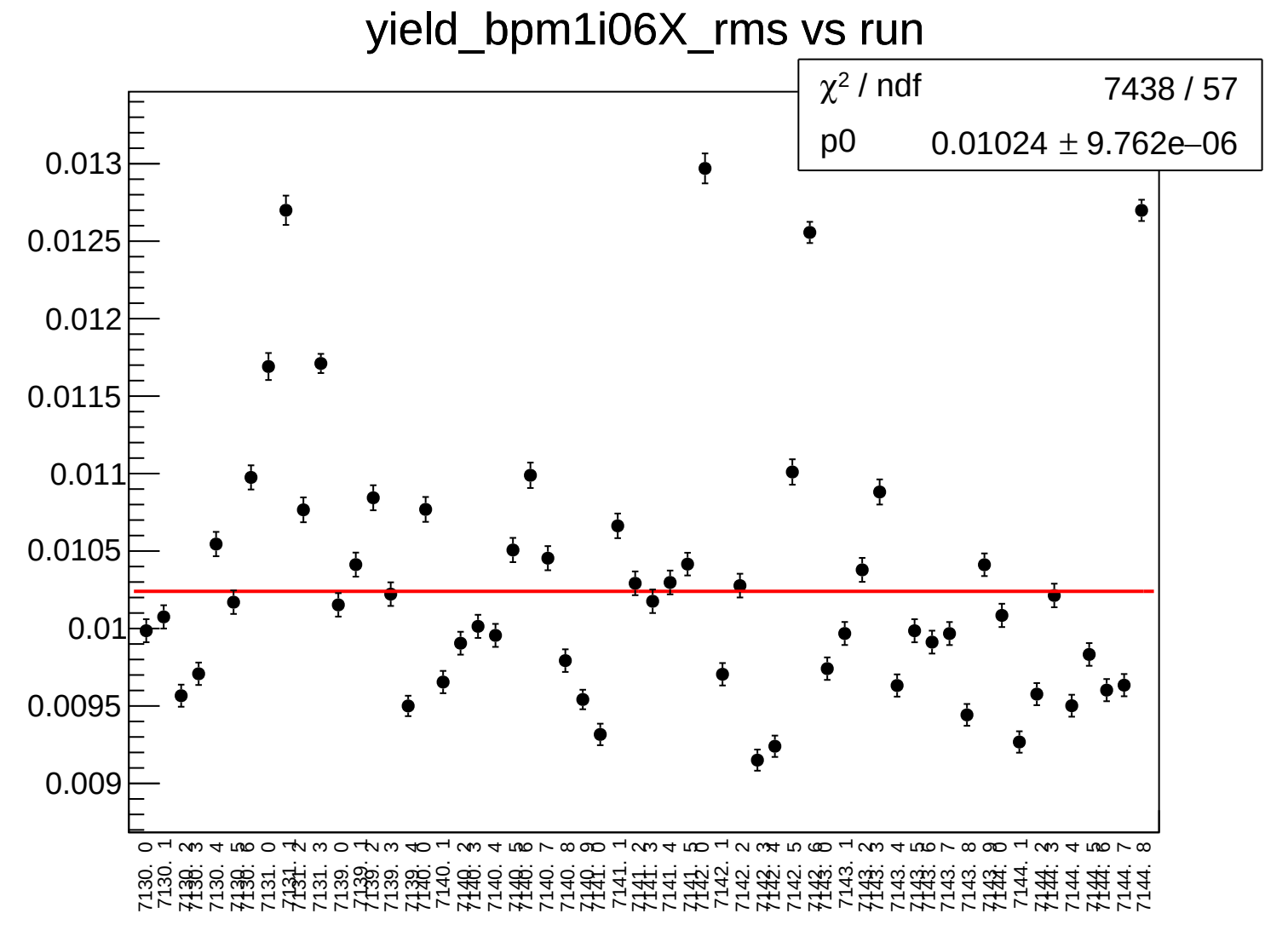

yield_bpm1i04Y_mean vs run
χ² / ndf 1.63e+06 / 57
p0 0.4517 ± 5.895e−06
0.465
0.46
0.455
0.45
0.445
0.44
0.435
0.43
pull
Entries 58
Mean −1012
Std Dev 1040
200
100
0
−100
−200
−300
−400

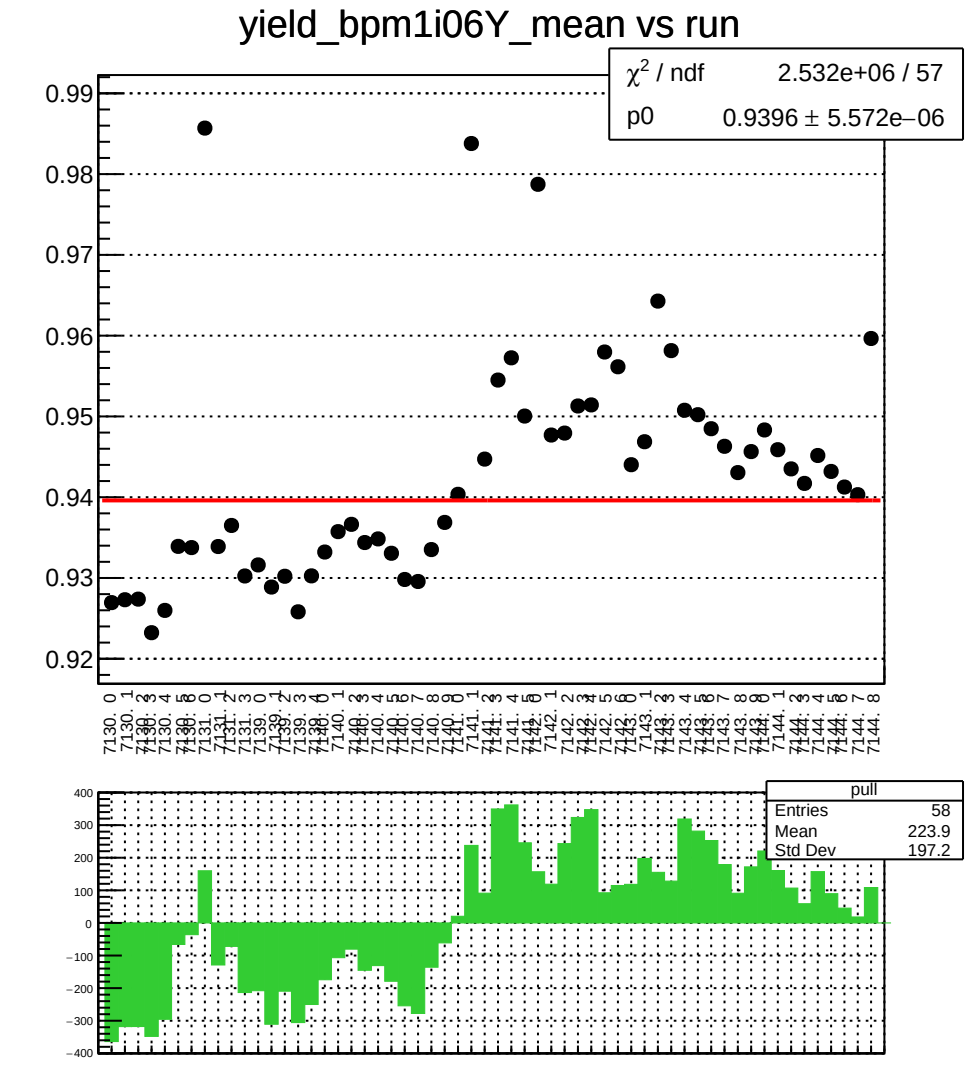

pull1D
Entries 58
Mean −1.696
Std Dev 6.12
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

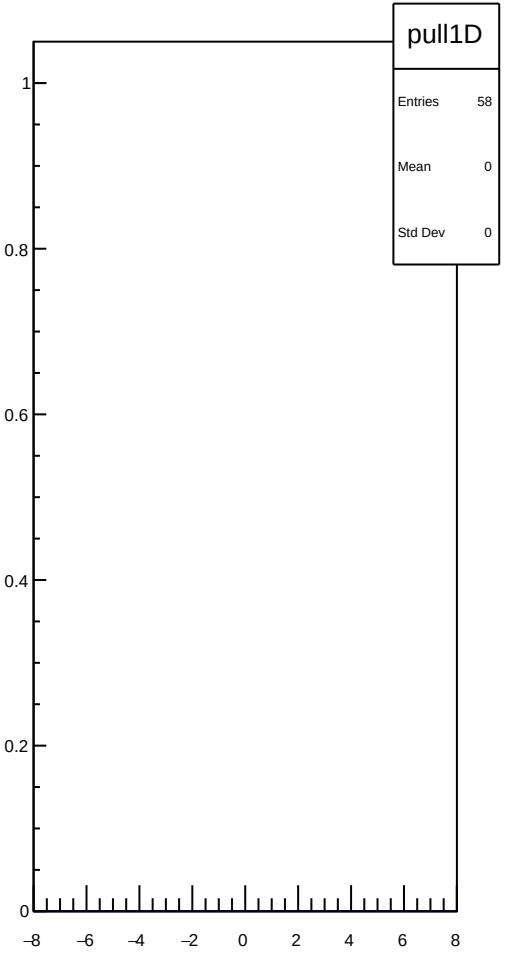

yield_bpm1i04Y_rms vs run
χ² / ndf 2.4e+04 / 57
p0 0.004339 ± 4.168e−06
0.009
0.008
0.007
0.006
0.005
0.004

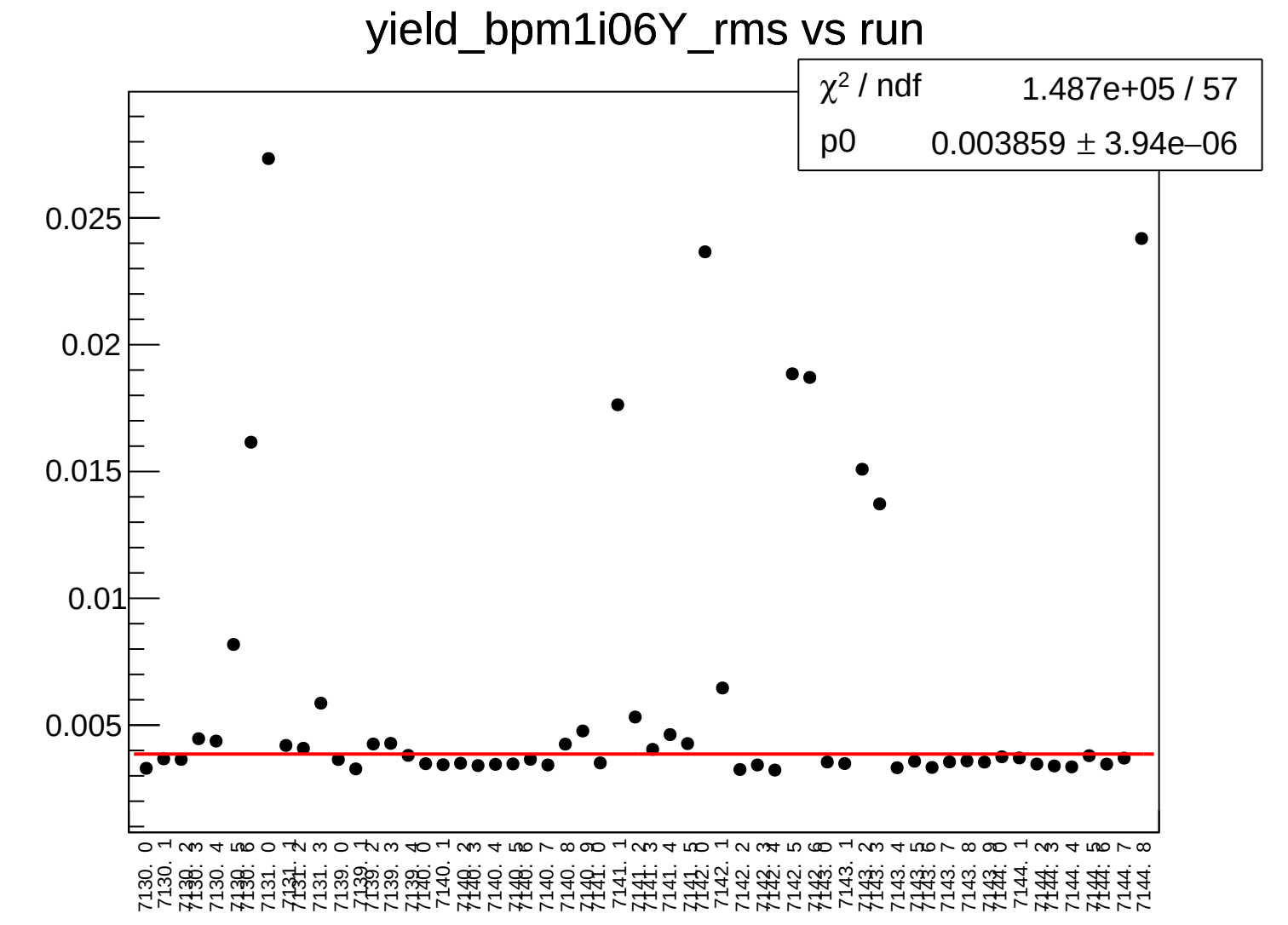

yield_bpm1i06X_mean vs run
χ² / ndf 5.221e+05 / 57
p0 1.797 ± 1.381e−05
1.82
1.81
1.8
1.79
1.78
1.77
pull
Entries 58
Mean −1242
Std Dev 1273
200
150
100
50
0
−50
−100
−150
−200
−250

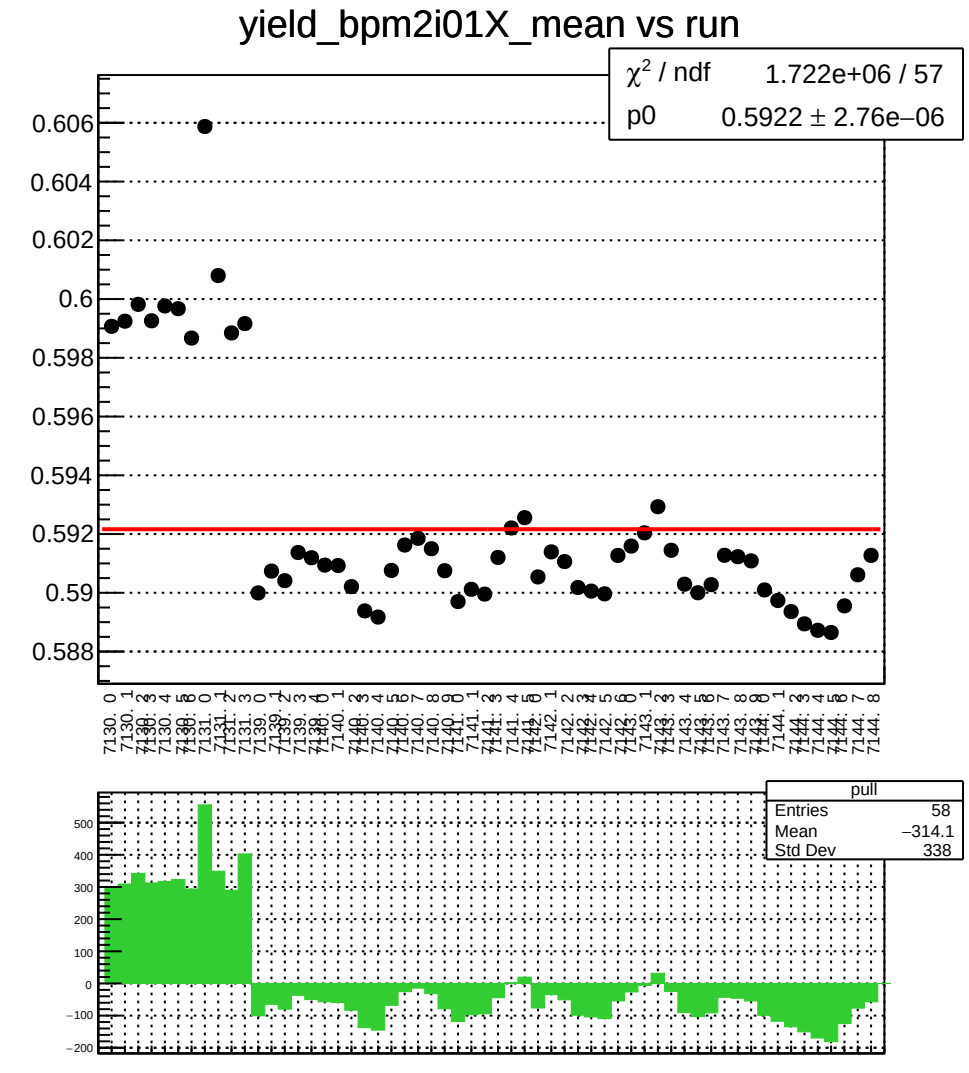

pull1D
Entries 58
Mean −1.65
Std Dev 4.829
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

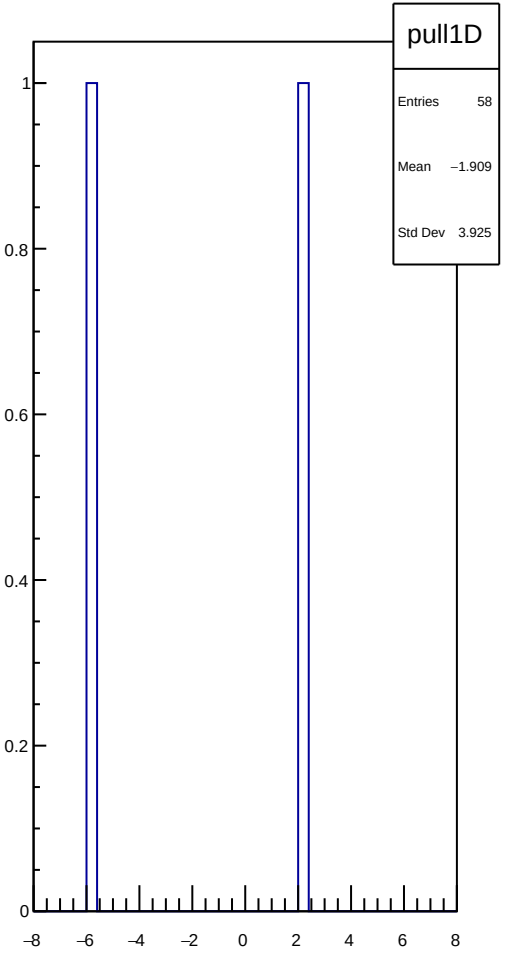

yield_bpm1i06X_rms vs run
χ² / ndf 7438 / 57
p0 0.01024 ± 9.762e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

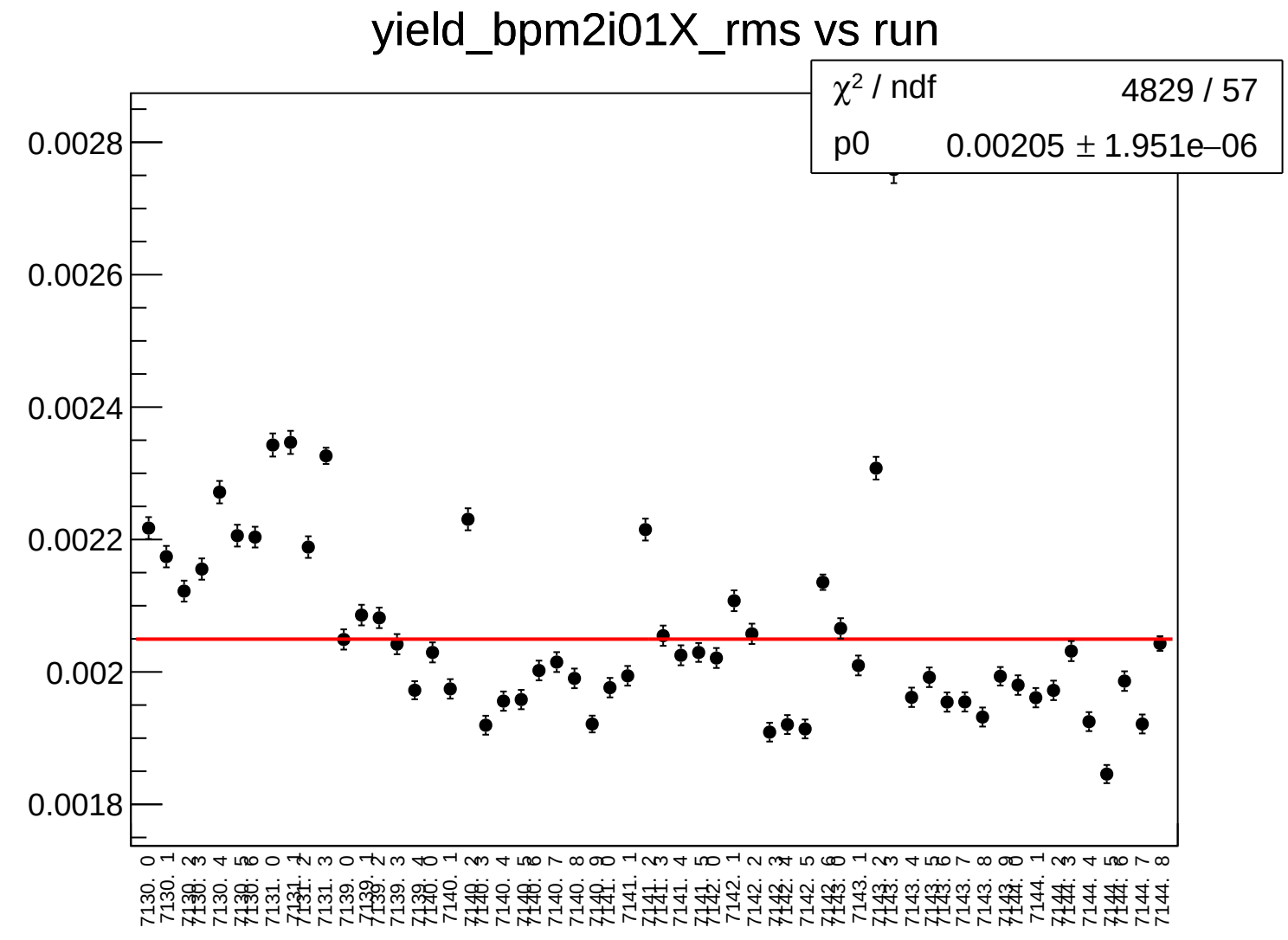

yield_bpm1i06Y_mean vs run
χ² / ndf 2.532e+06 / 57
p0 0.9396 ± 5.572e−06
0.99
0.98
0.97
0.96
0.95
0.94
0.93
0.92
pull
Entries 58
Mean 223.9
Std Dev 197.2
400
300
200
100
0
−100
−200
−300
−400

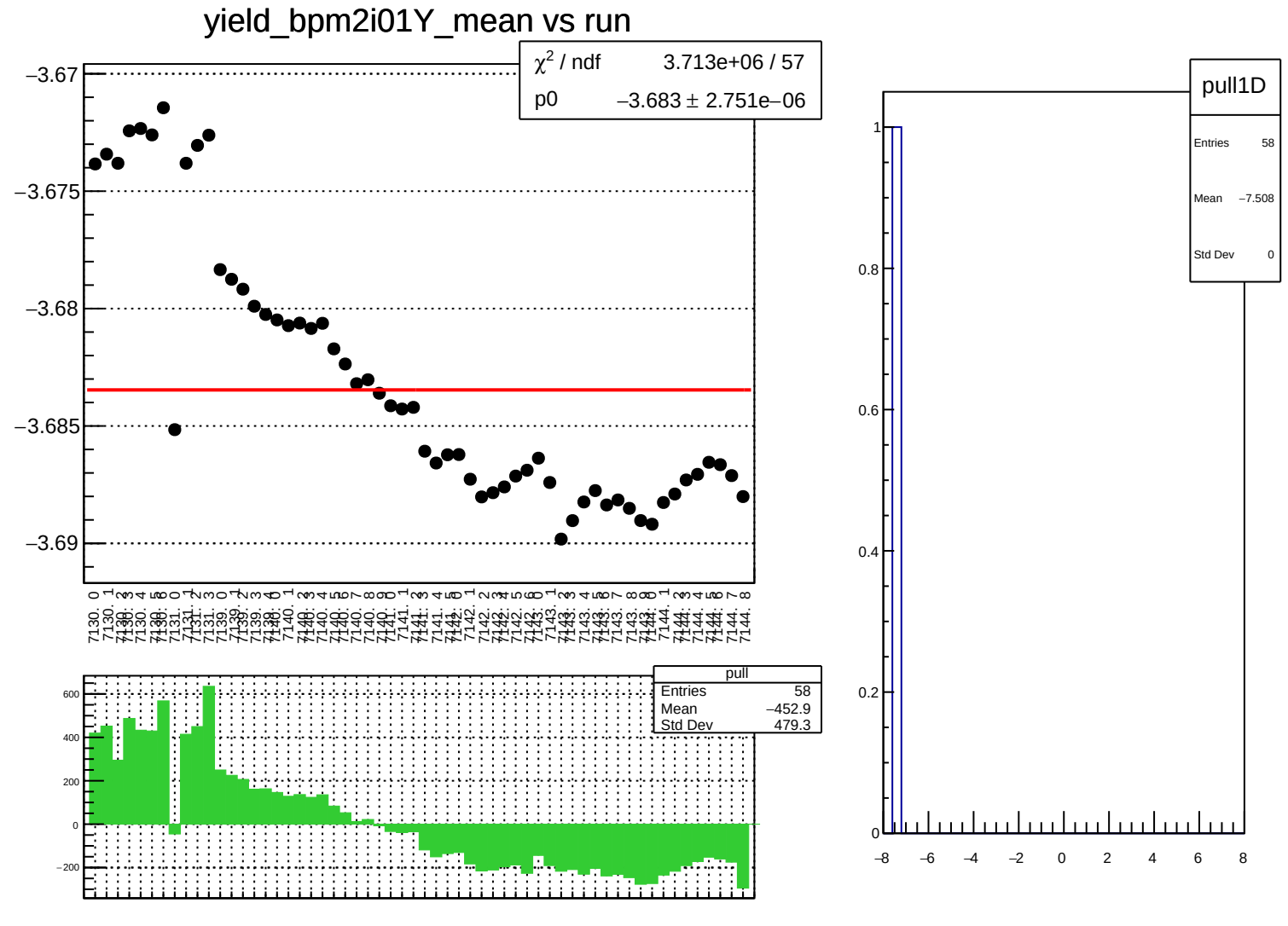

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

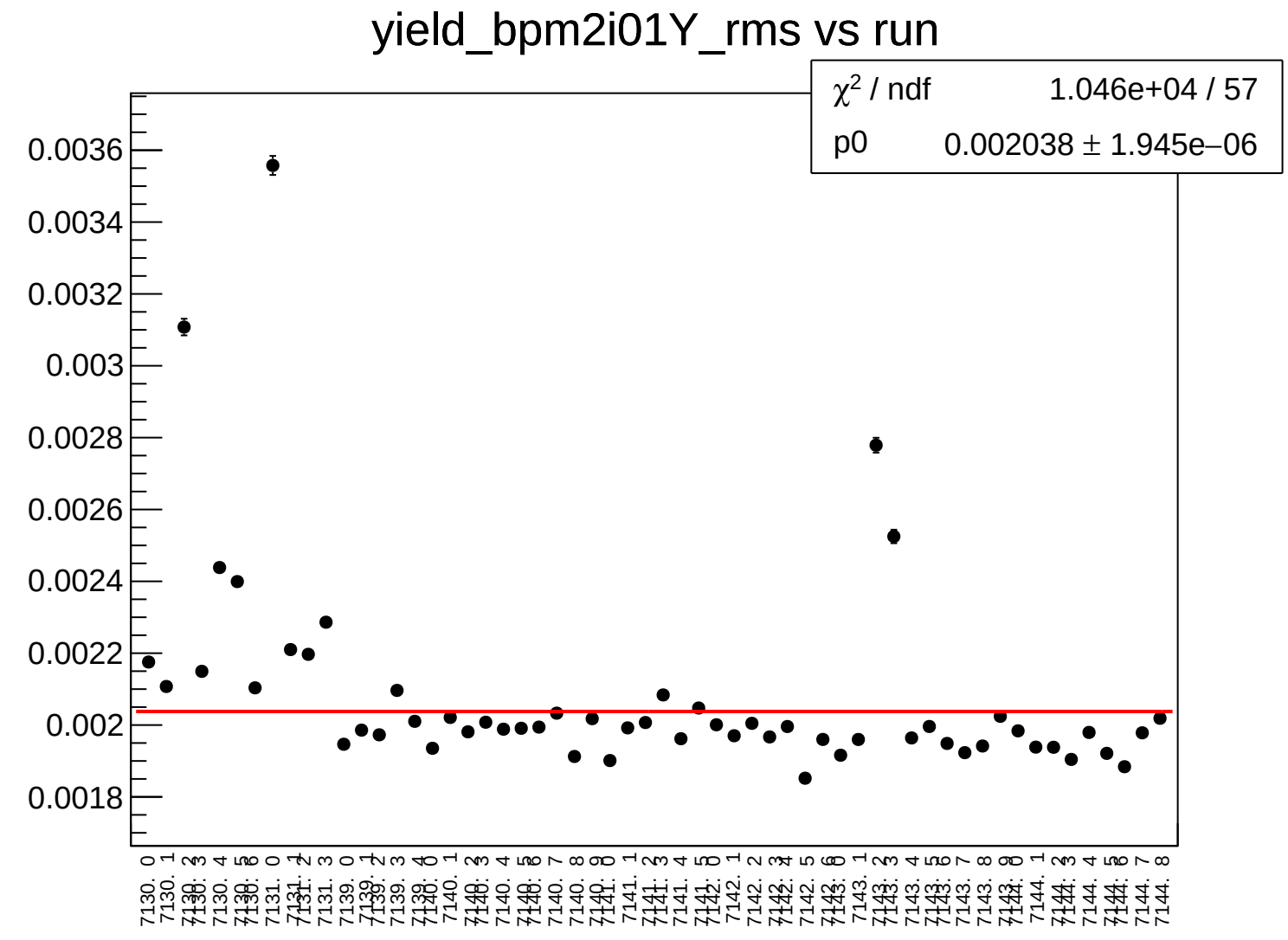

yield_bpm1i06Y_rms vs run
χ² / ndf 1.487e+05 / 57
p0 0.003859 ± 3.94e–06
0.025
0.02
0.015
0.01
0.005

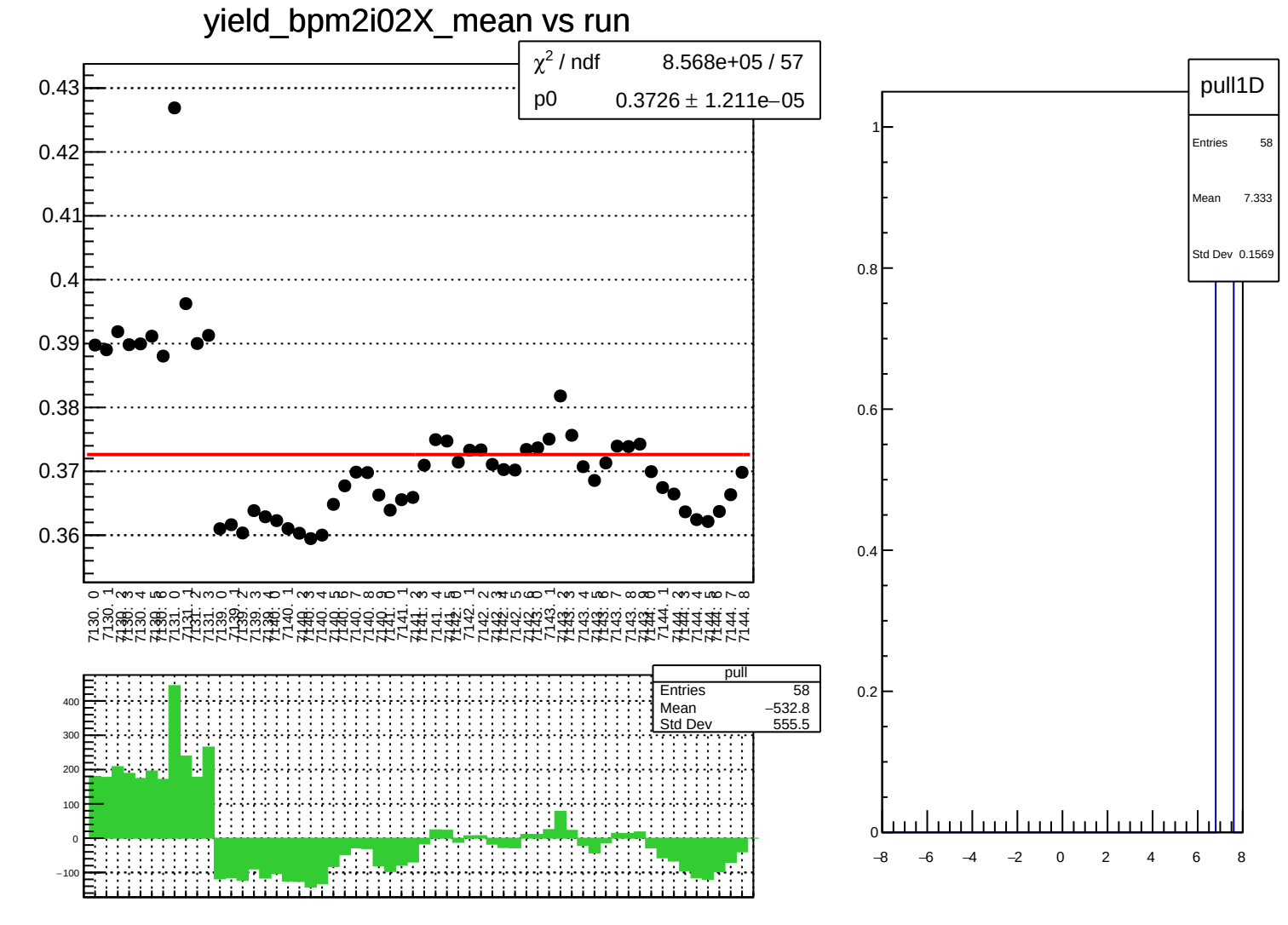

yield_bpm2i01X_mean vs run
χ² / ndf 1.722e+06 / 57
p0 0.5922 ± 2.76e−06
0.606
0.604
0.602
0.6
0.598
0.596
0.594
0.592
0.59
0.588
pull
Entries 58
Mean −314.1
Std Dev 338
500
400
300
200
100
0
−100
−200

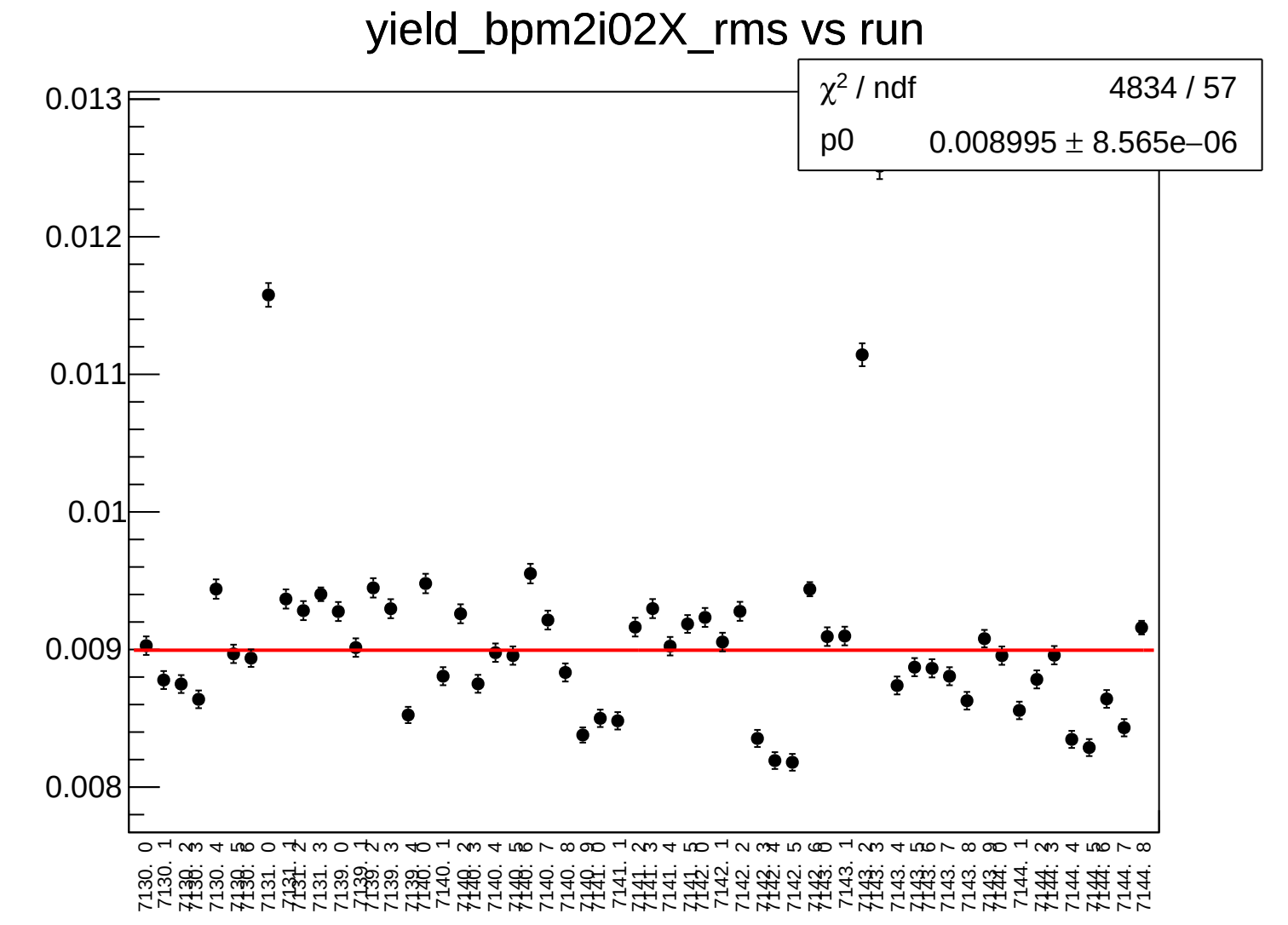

pull1D
Entries 58
Mean −1.909
Std Dev 3.925
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

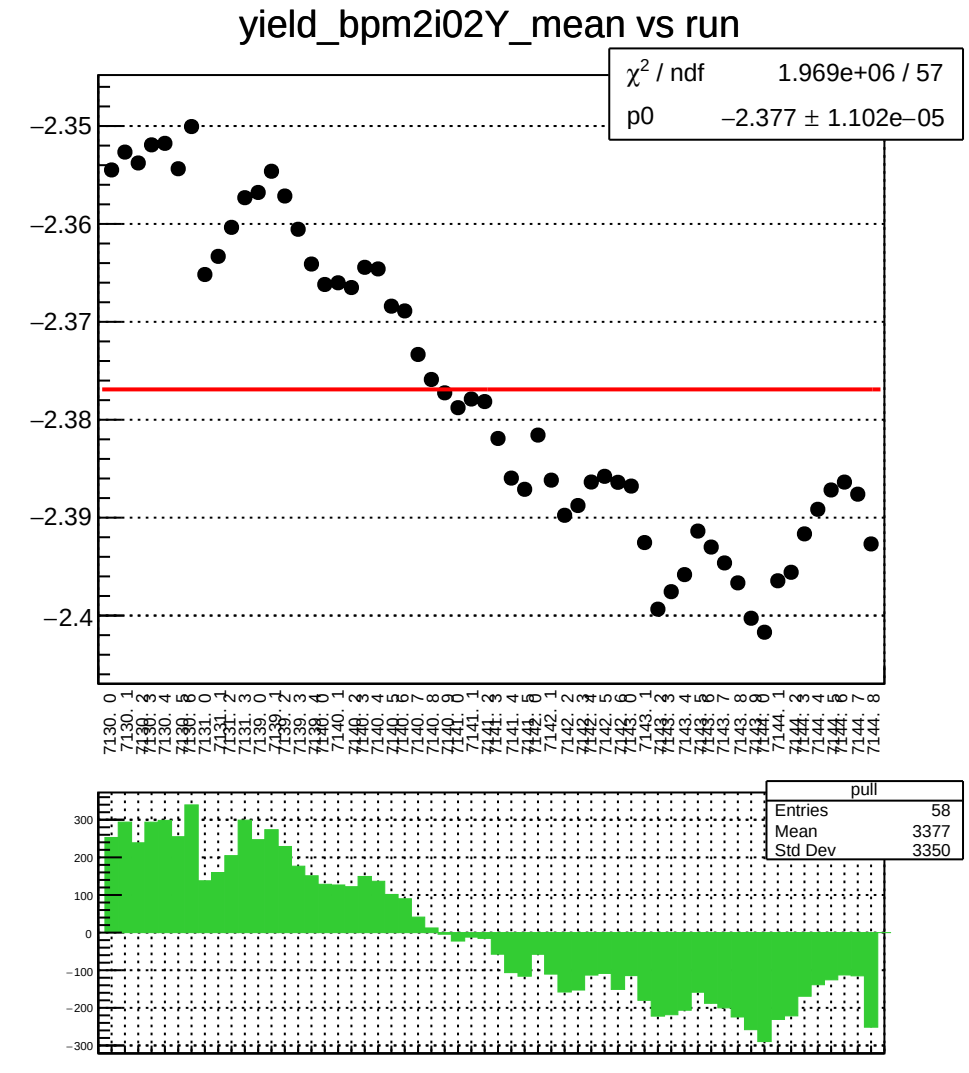

yield_bpm2i01X_rms vs run
χ² / ndf 4829 / 57
p0 0.00205 ± 1.951e–06
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

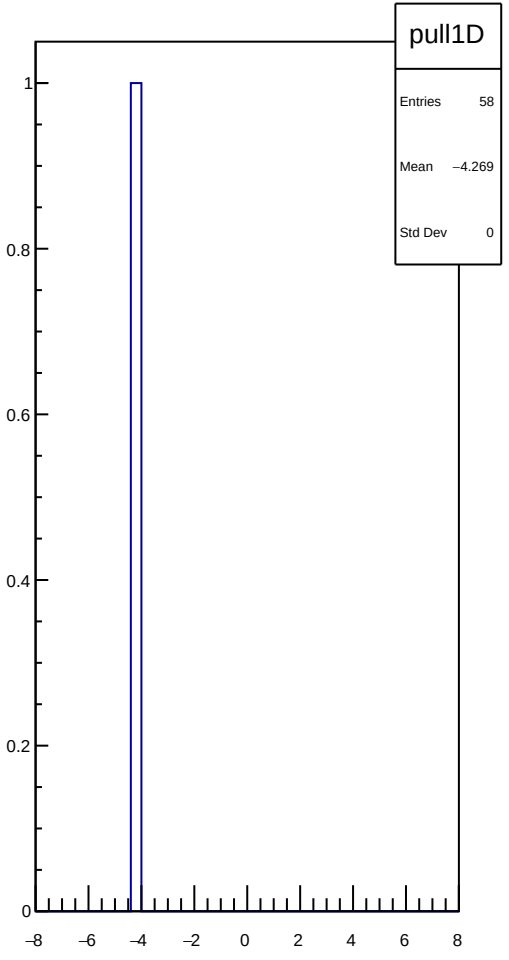

yield_bpm2i01Y_mean vs run
χ² / ndf 3.713e+06 / 57
p0 −3.683 ± 2.751e−06
−3.67
−3.675
−3.68
−3.685
−3.69
pull
Entries 58
Mean −452.9
Std Dev 479.3
600
400
200
0
−200
pull1D
Entries 58
Mean −7.508
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

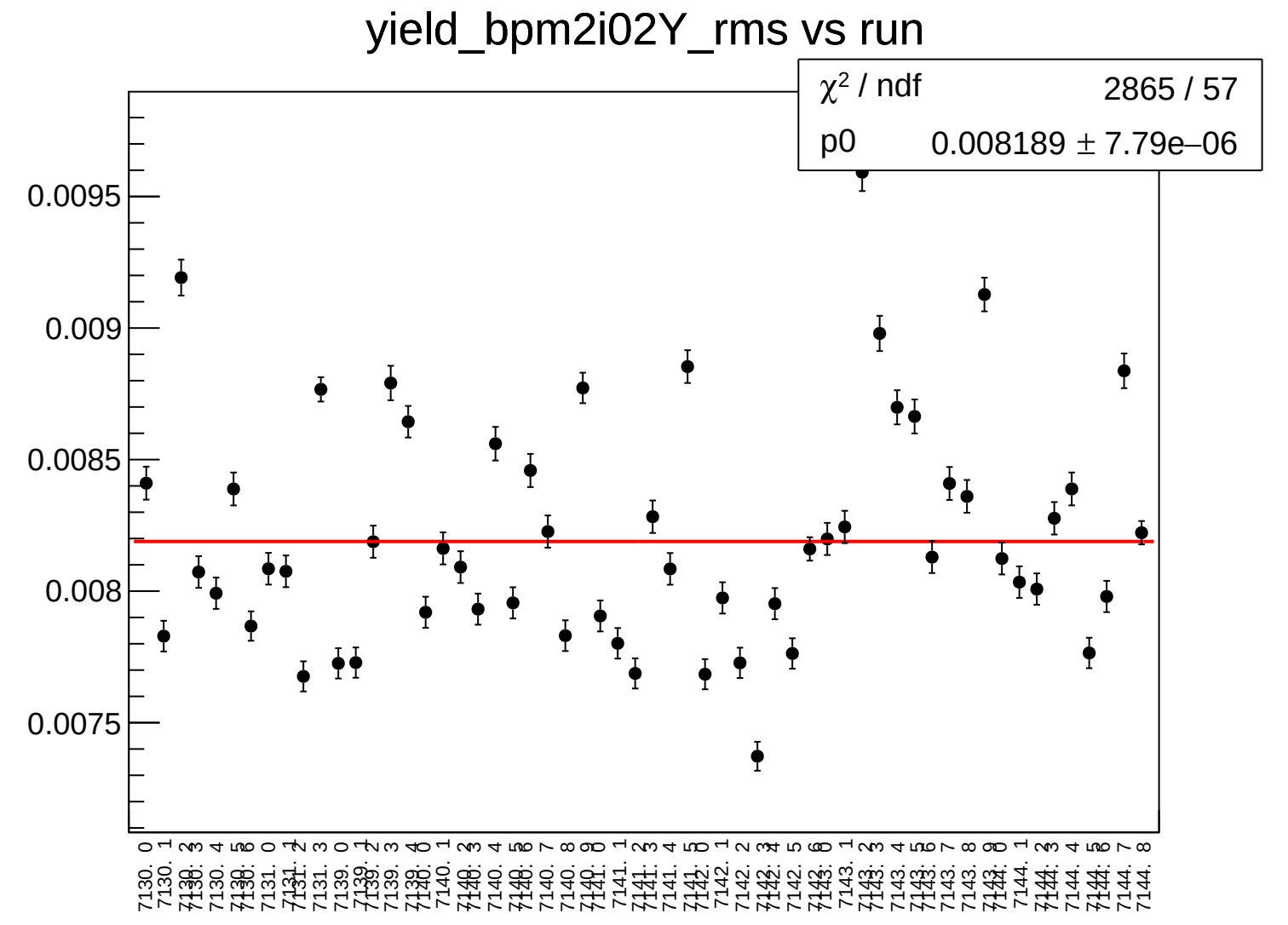

yield_bpm2i01Y_rms vs run
χ² / ndf 1.046e+04 / 57
p0 0.002038 ± 1.945e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

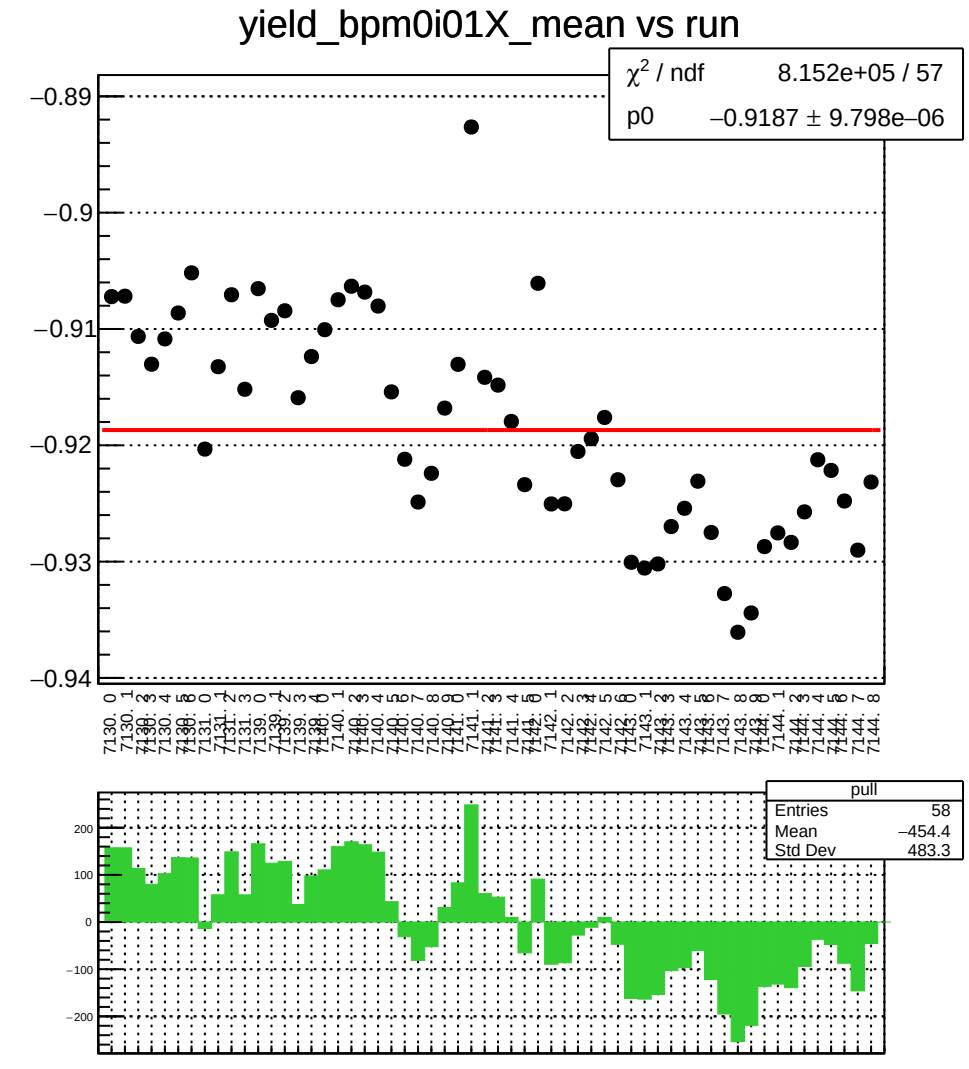

yield_bpm2i02X_mean vs run
χ² / ndf 8.568e+05 / 57
p0 0.3726 ± 1.211e−05
0.43
0.42
0.41
0.4
0.39
0.38
0.37
0.36
pull
Entries 58
Mean −532.8
Std Dev 555.5
400
300
200
100
0
−100
pull1D
Entries 58
Mean 7.333
Std Dev 0.1569
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

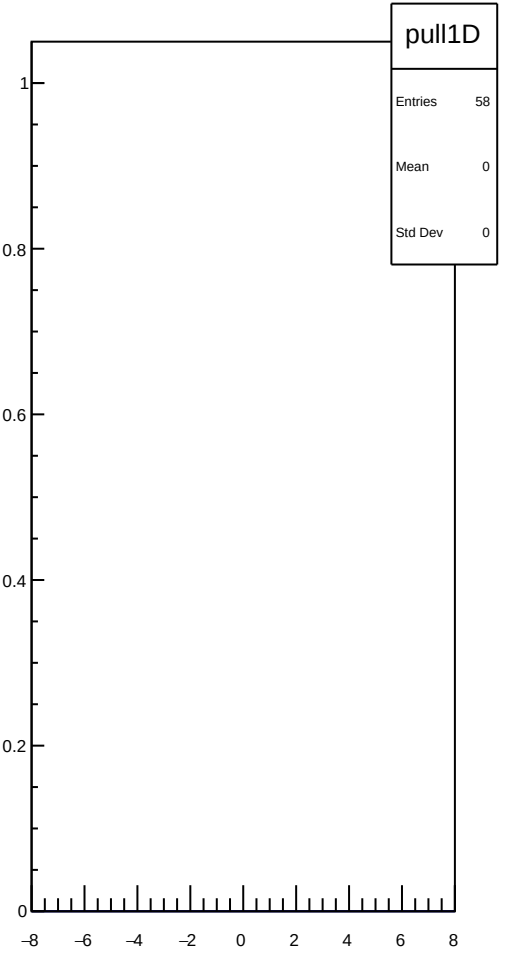

yield_bpm2i02X_rms vs run
χ² / ndf 4834 / 57
p0 0.008995 ± 8.565e−06
0.013
0.012
0.011
0.01
0.009
0.008

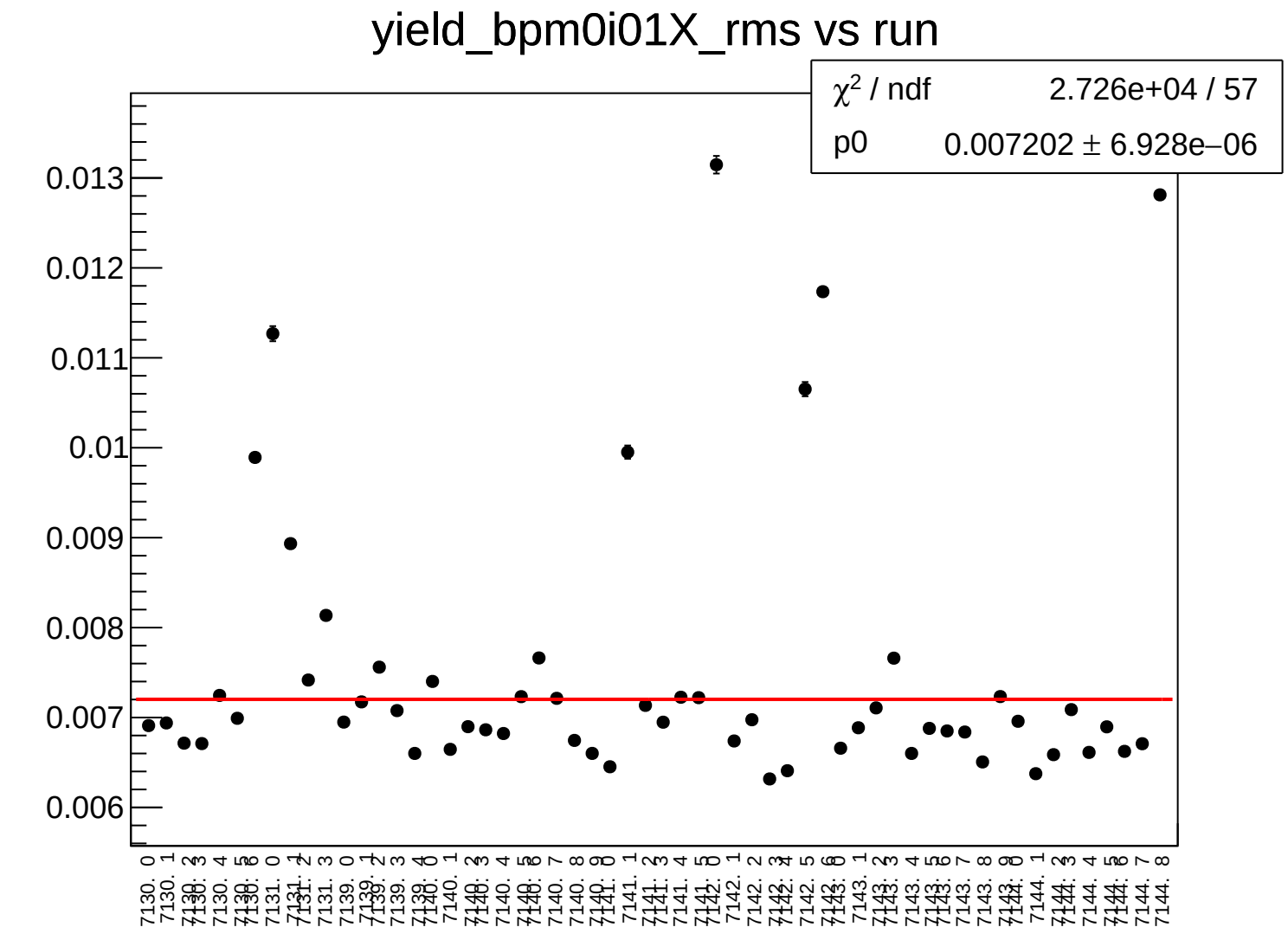

yield_bpm2i02Y_mean vs run
χ² / ndf 1.969e+06 / 57
p0 −2.377 ± 1.102e−05
−2.35
−2.36
−2.37
−2.38
−2.39
−2.4
pull
Entries 58
Mean 3377
Std Dev 3350
300
200
100
0
−100
−200
−300

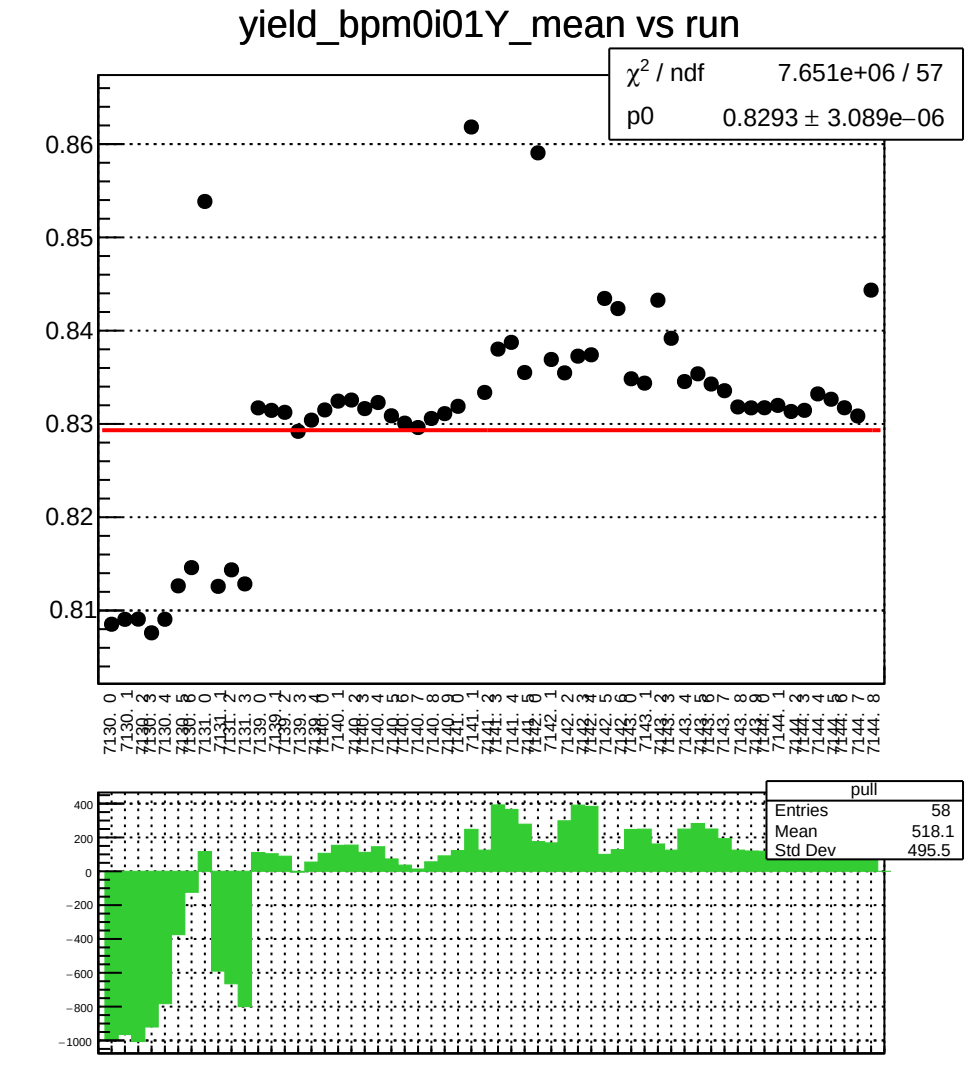

pull1D
Entries 58
Mean −4.269
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

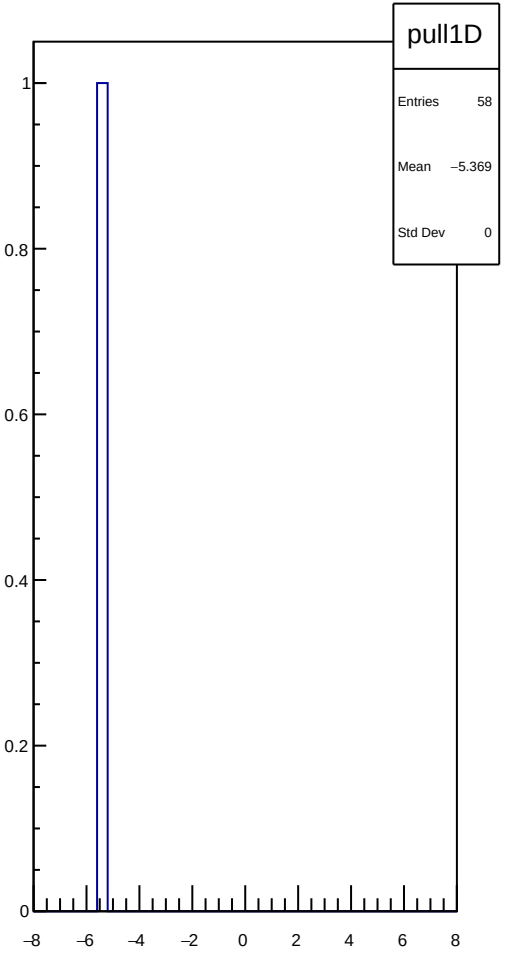

yield_bpm2i02Y_rms vs run
χ² / ndf 2865 / 57
p0 0.008189 ± 7.79e–06
0.0095
0.009
0.0085
0.008
0.0075

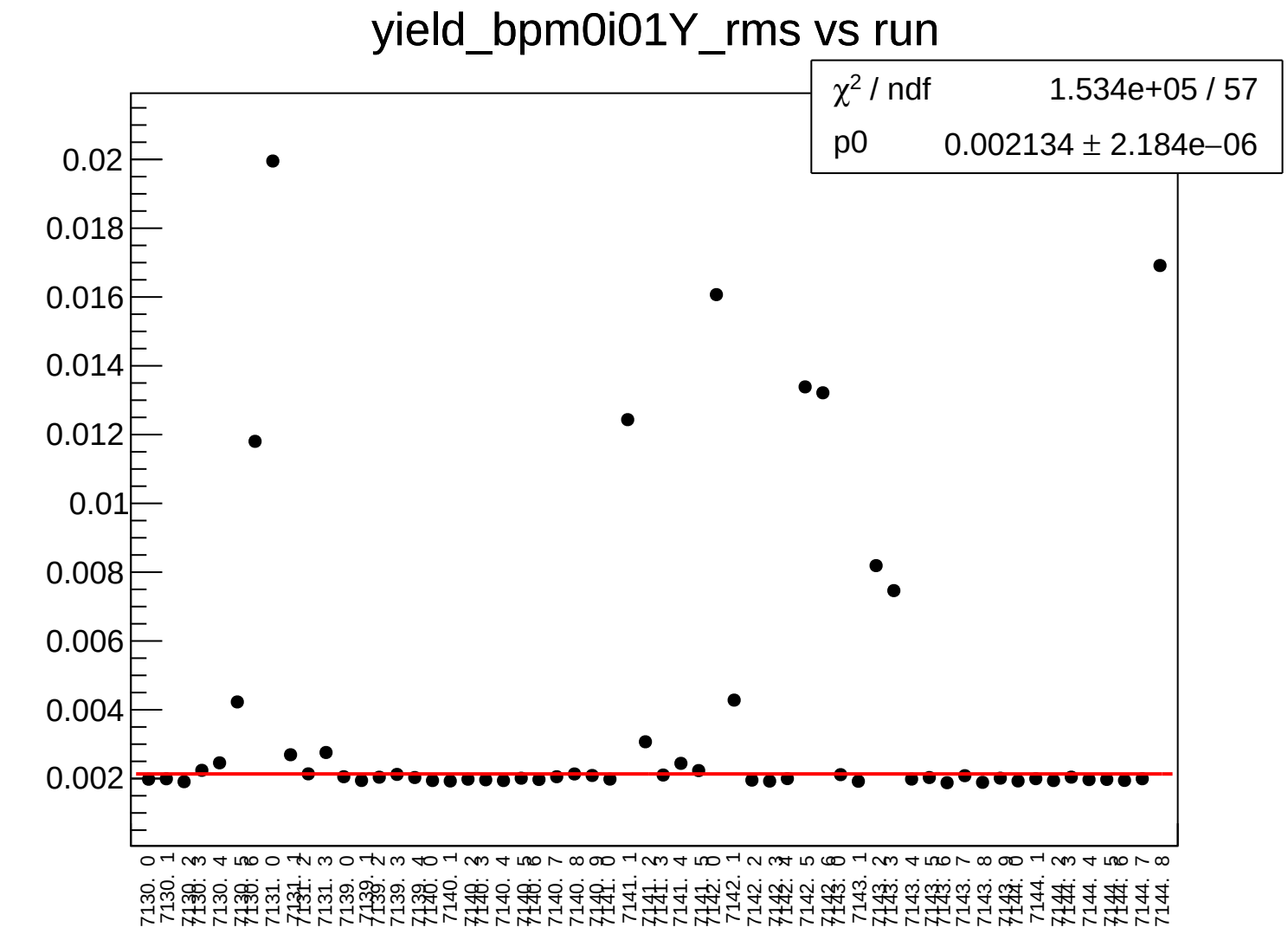

yield_bpm0i01X_mean vs run
χ² / ndf 8.152e+05 / 57
p0 −0.9187 ± 9.798e−06
−0.89
−0.9
−0.91
−0.92
−0.93
−0.94
pull
Entries 58
Mean −454.4
Std Dev 483.3
200
100
0
−100
−200

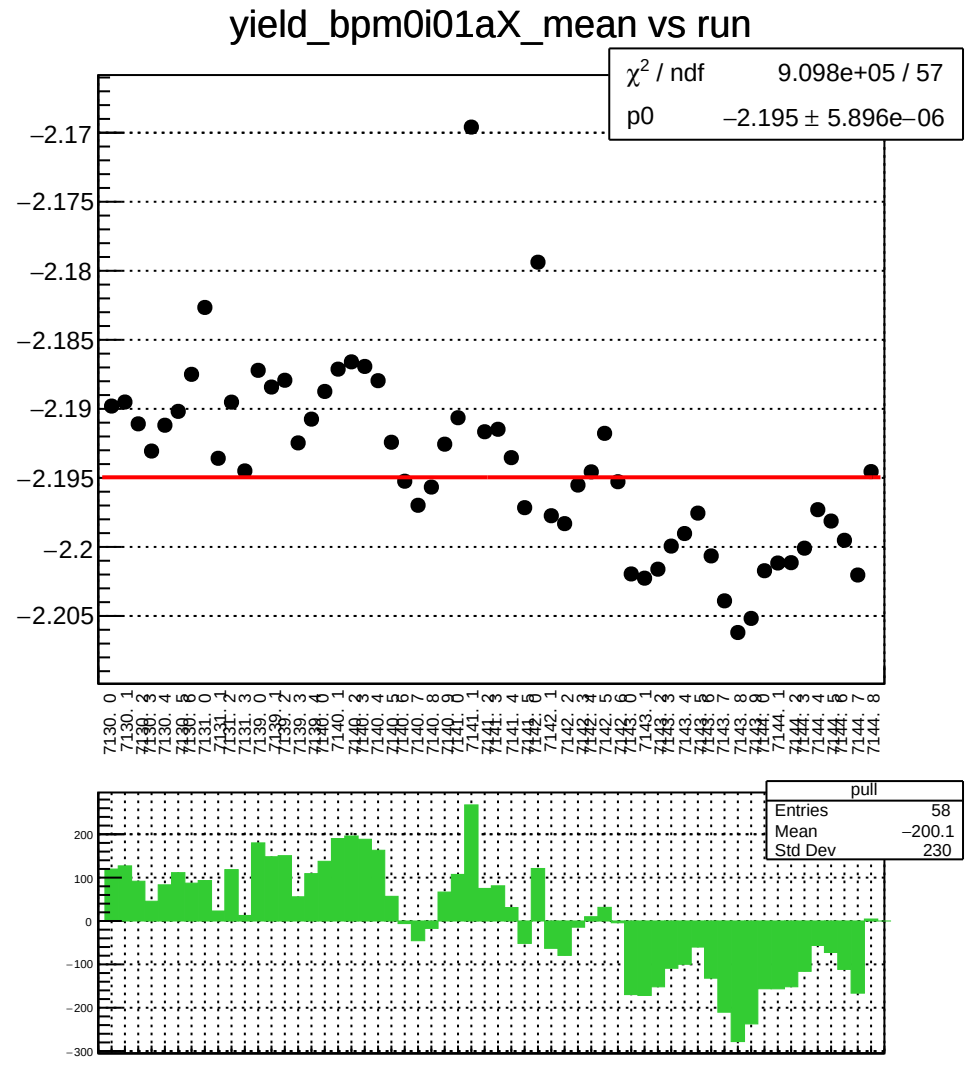

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

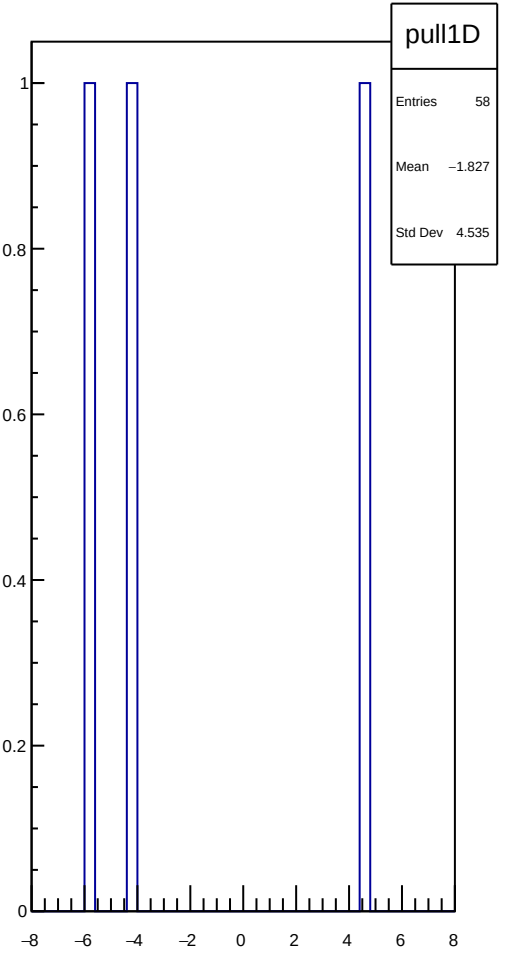

yield_bpm0i01X_rms vs run
χ² / ndf 2.726e+04 / 57
p0 0.007202 ± 6.928e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

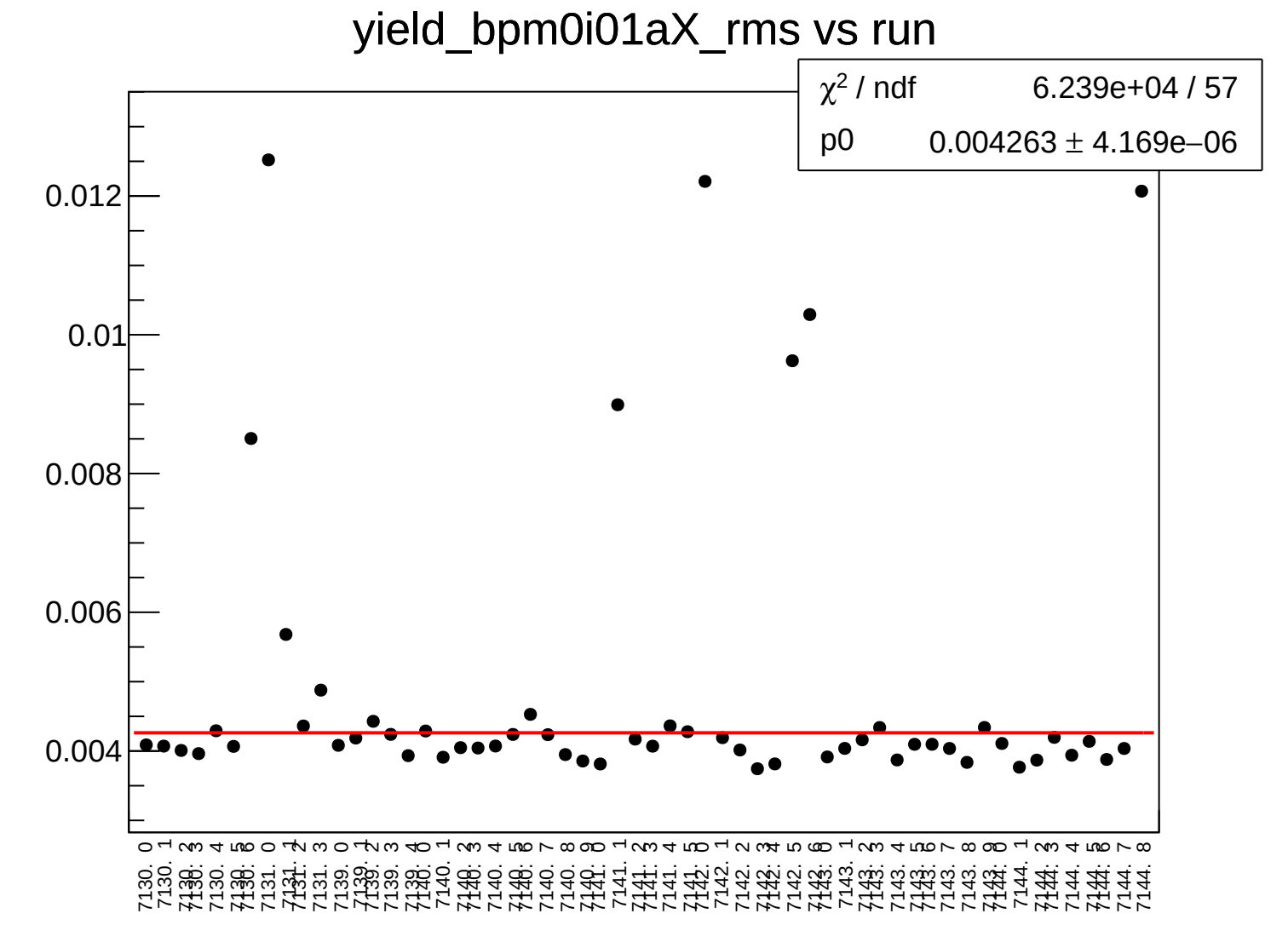

yield_bpm0i01Y_mean vs run
χ² / ndf 7.651e+06 / 57
p0 0.8293 ± 3.089e−06
0.86
0.85
0.84
0.83
0.82
0.81
pull
Entries 58
Mean 518.1
Std Dev 495.5
400
200
0
−200
−400
−600
−800
−1000

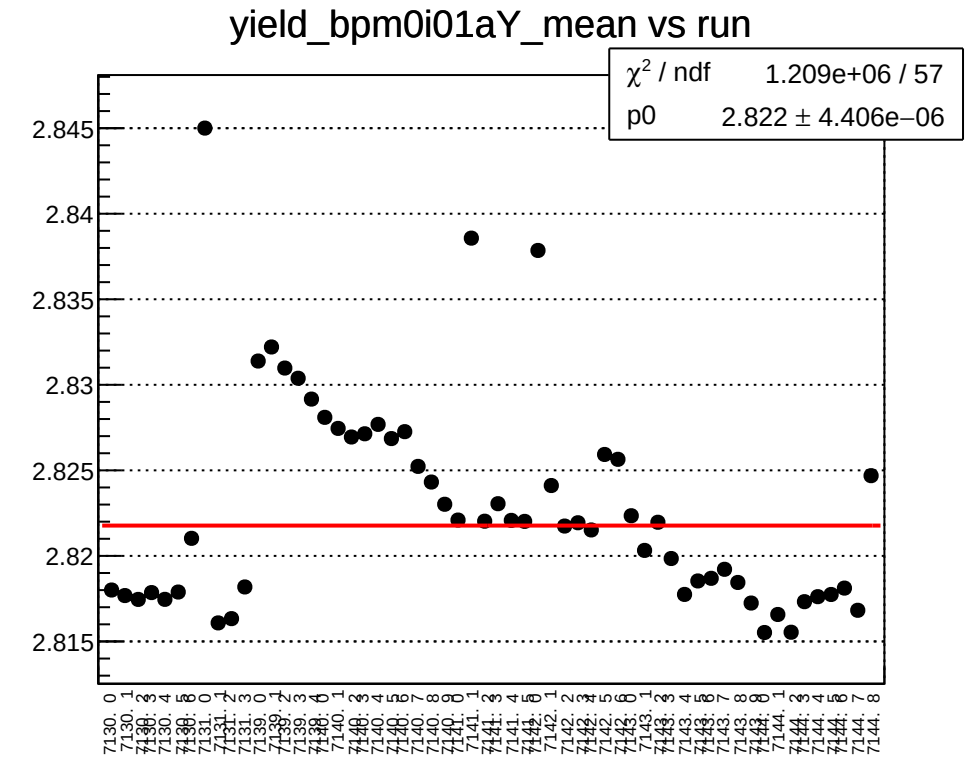

pull1D
Entries 58
Mean −5.369
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

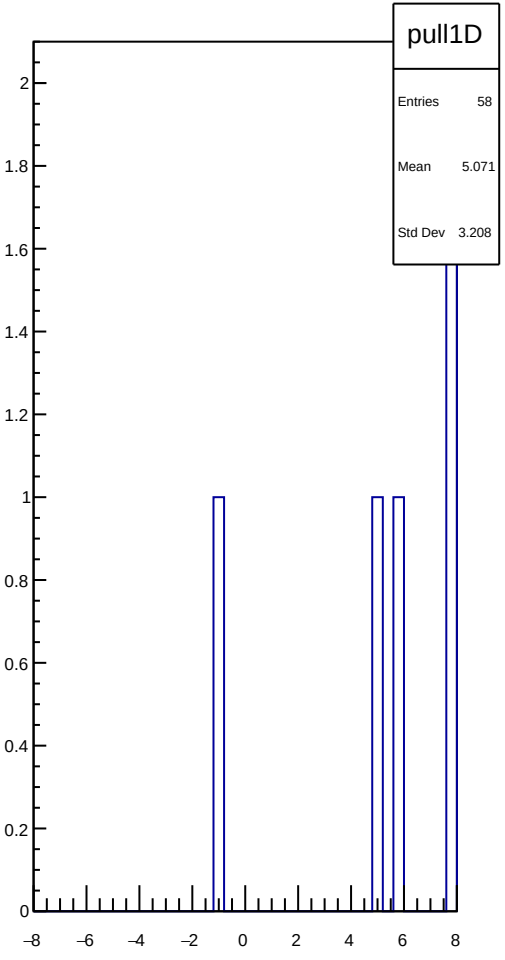

yield_bpm0i01Y_rms vs run
χ² / ndf 1.534e+05 / 57
p0 0.002134 ± 2.184e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

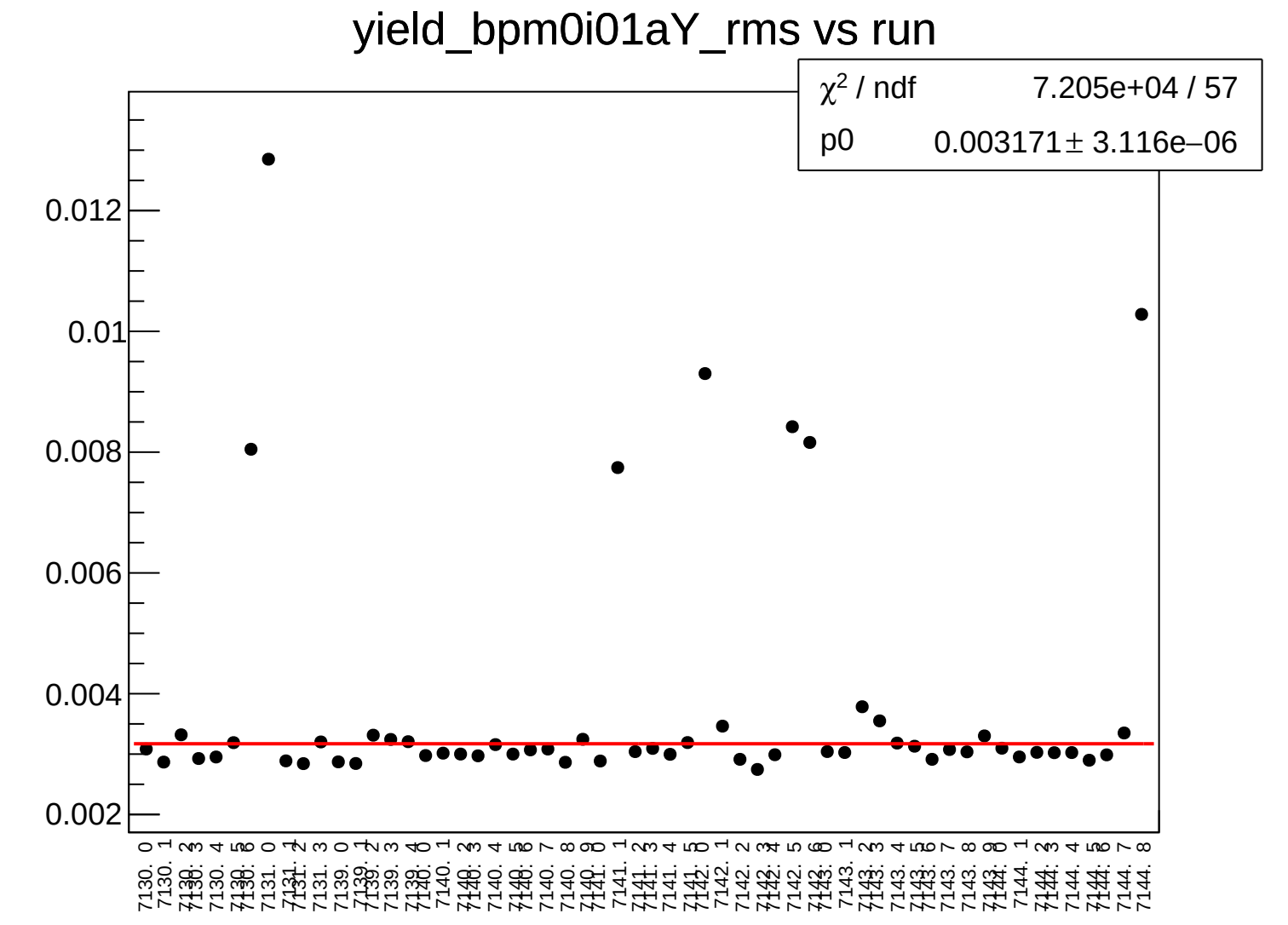

yield_bpm0i01aX_mean vs run
χ² / ndf 9.098e+05 / 57
p0 −2.195 ± 5.896e−06
−2.17
−2.175
−2.18
−2.185
−2.19
−2.195
−2.2
−2.205
pull
Entries 58
Mean −200.1
Std Dev 230
200
100
0
−100
−200
−300

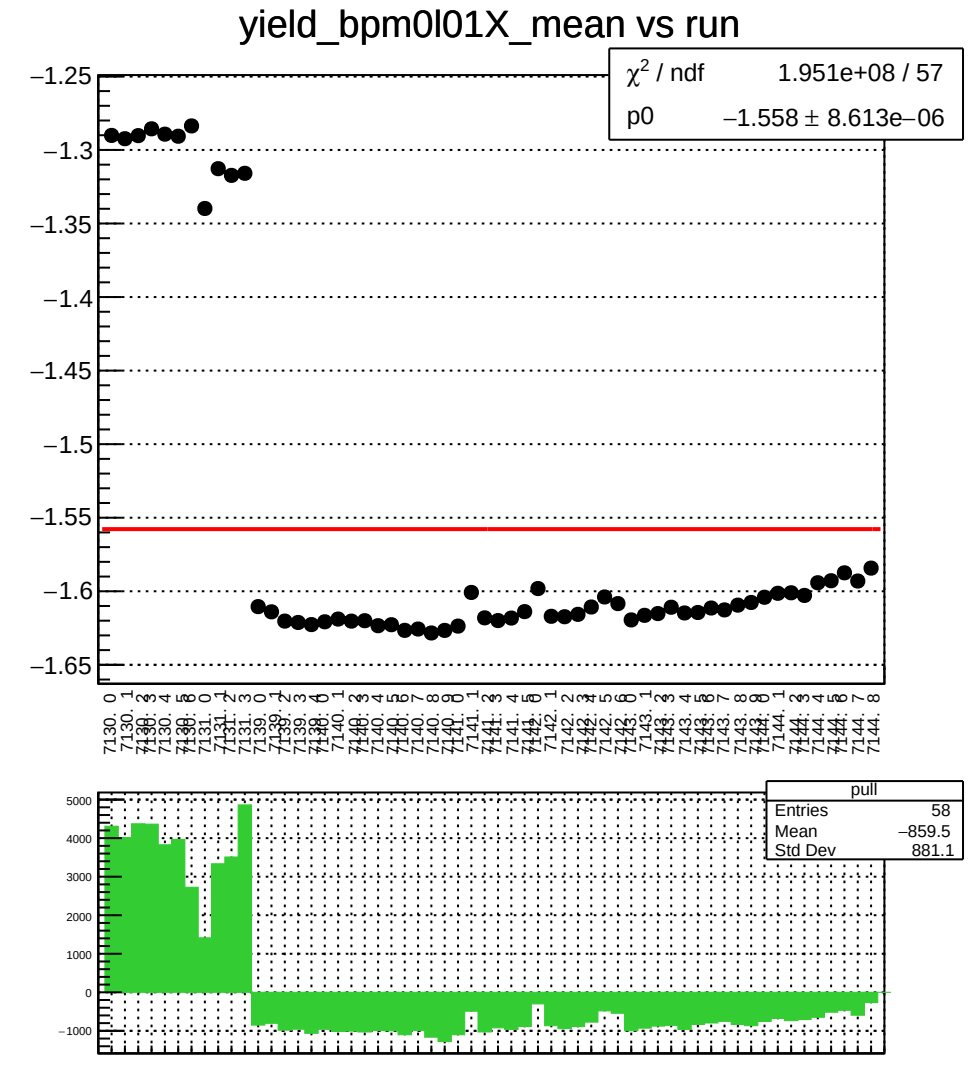

pull1D
Entries 58
Mean −1.827
Std Dev 4.535
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

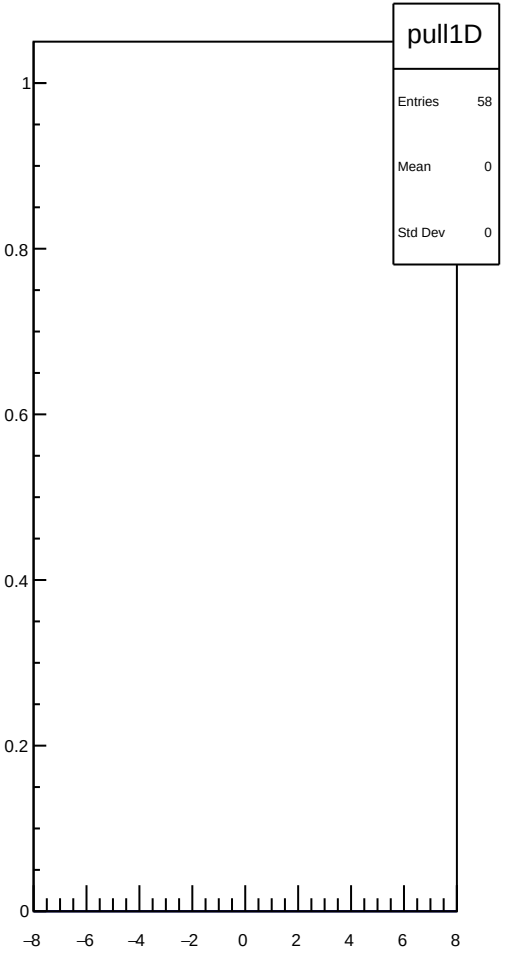

yield_bpm0i01aX_rms vs run
χ² / ndf 6.239e+04 / 57
p0 0.004263 ± 4.169e−06
0.012
0.01
0.008
0.006
0.004

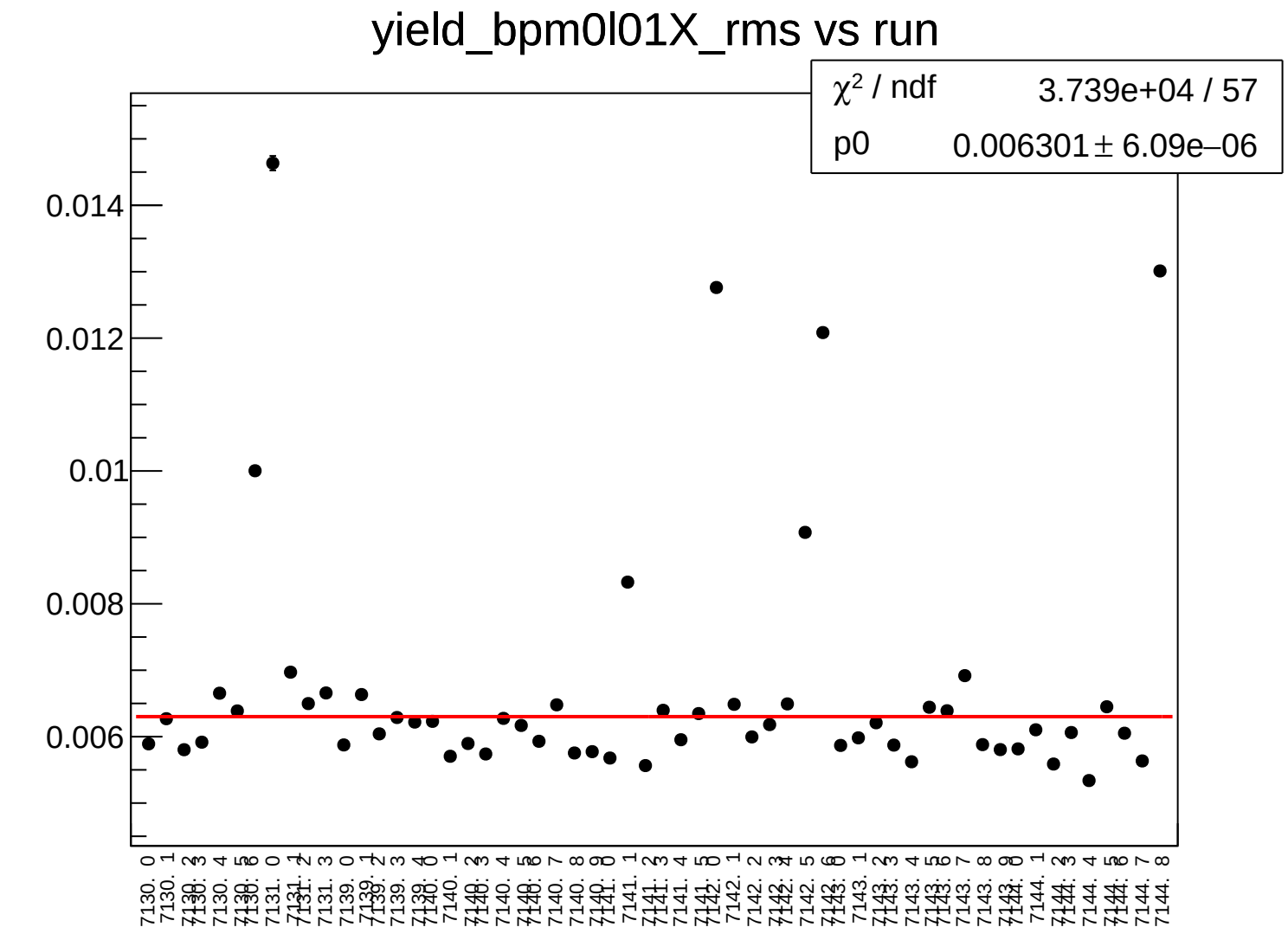

yield_bpm0i01aY_mean vs run
χ² / ndf 1.209e+06 / 57
p0 2.822 ± 4.406e−06
2.845
2.84
2.835
2.83
2.825
2.82
2.815
pull
Entries 58
Mean −66.94
Std Dev 106.2
300
200
100
0
−100
−200

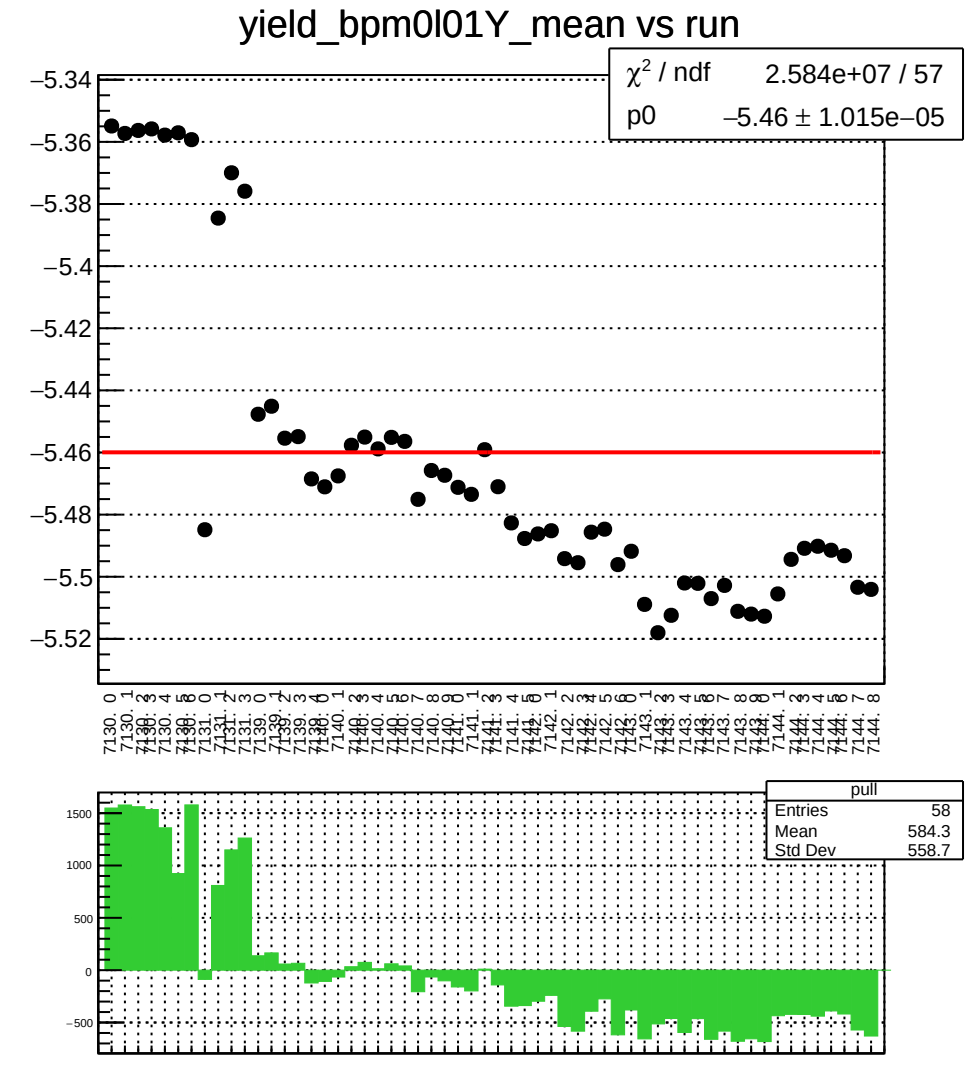

pull1D
Entries 58
Mean 5.071
Std Dev 3.208
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

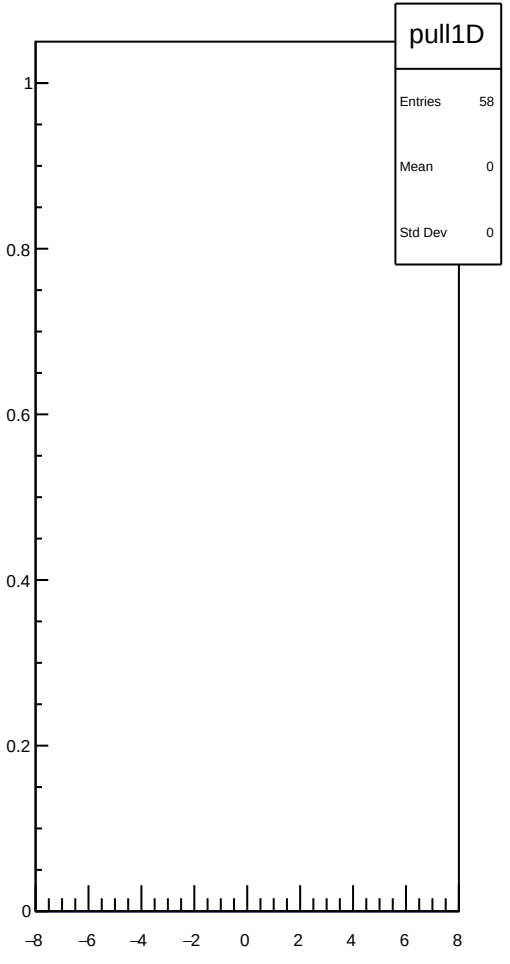

yield_bpm0i01aY_rms vs run
χ² / ndf 7.205e+04 / 57
p0 0.003171 ± 3.116e−06
0.012
0.01
0.008
0.006
0.004
0.002

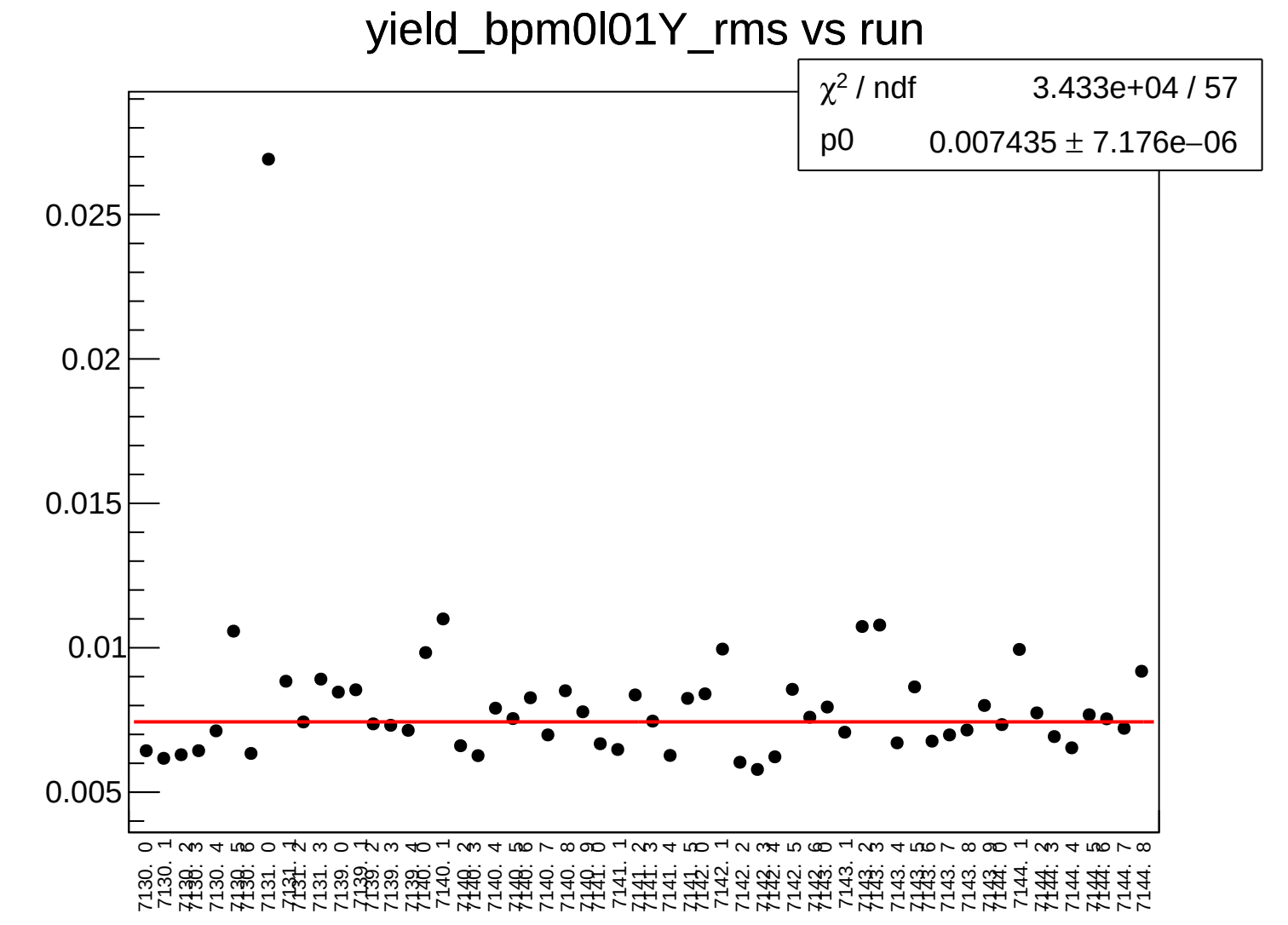

yield_bpm0l01X_mean vs run
χ² / ndf 1.951e+08 / 57
p0 −1.558 ± 8.613e−06
pull
Entries 58
Mean −859.5
Std Dev 881.1

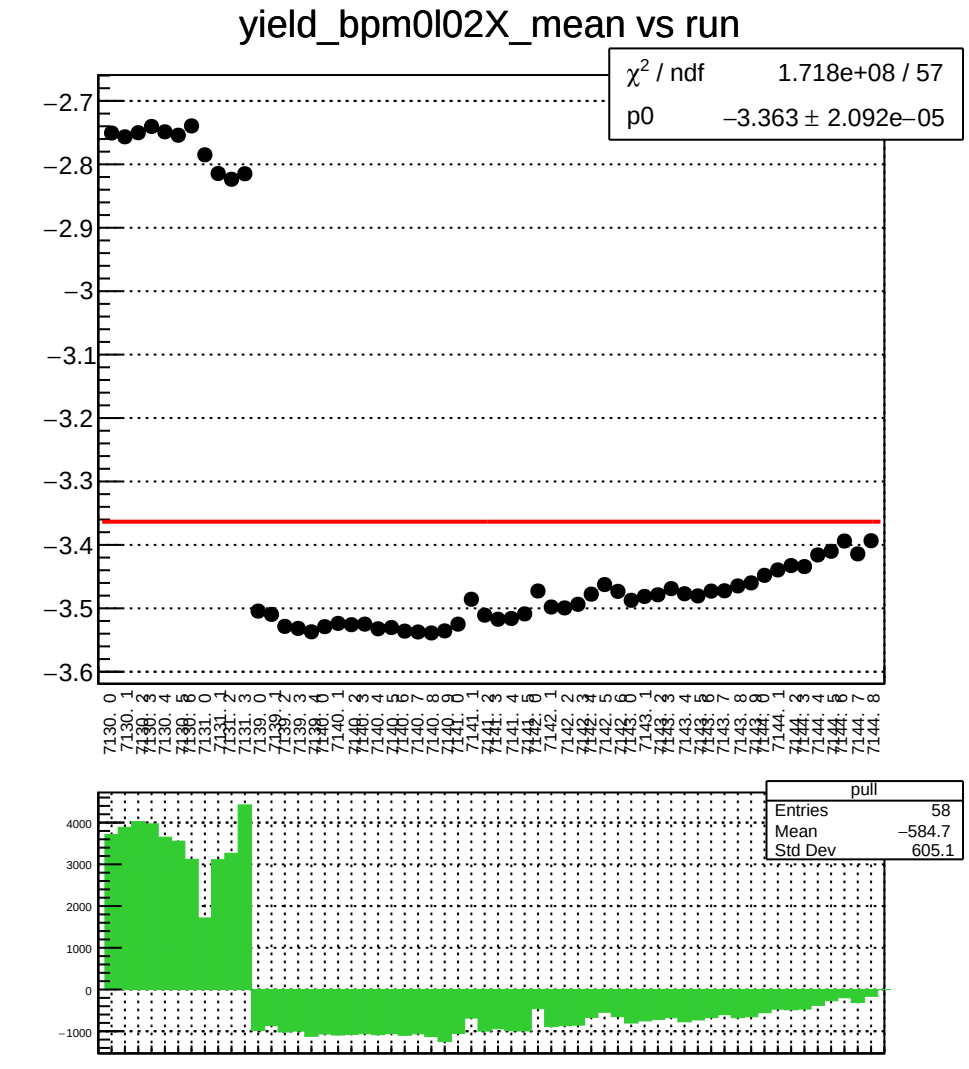

pull1D
Entries 58
Mean 0
Std Dev 0

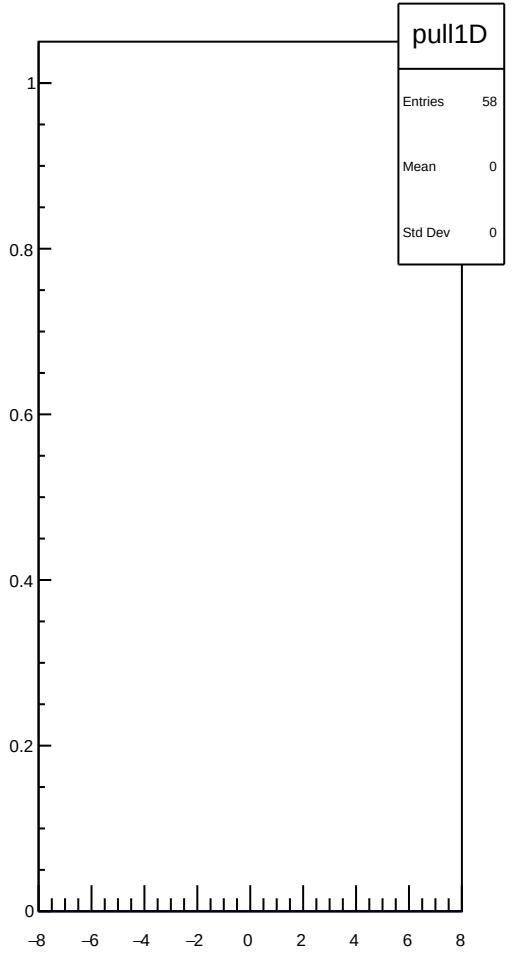

yield_bpm0l01X_rms vs run
χ² / ndf 3.739e+04 / 57
p0 0.006301 ± 6.09e–06
0.014
0.012
0.01
0.008
0.006

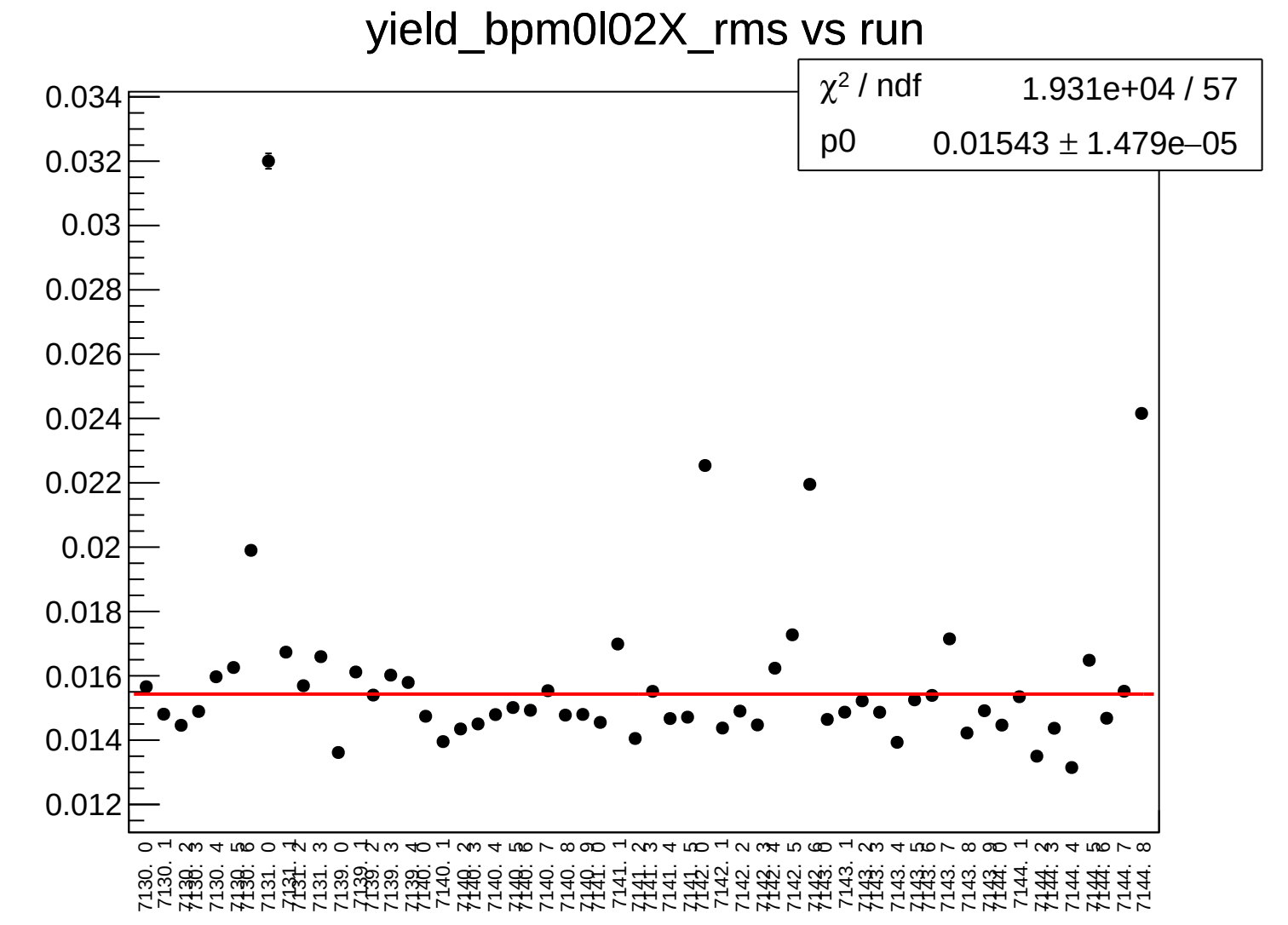

yield_bpm0l01Y_mean vs run
χ² / ndf 2.584e+07 / 57
p0 −5.46 ± 1.015e−05
−5.34
−5.36
−5.38
−5.4
−5.42
−5.44
−5.46
−5.48
−5.5
−5.52
pull
Entries 58
Mean 584.3
Std Dev 558.7
1500
1000
500
0
−500

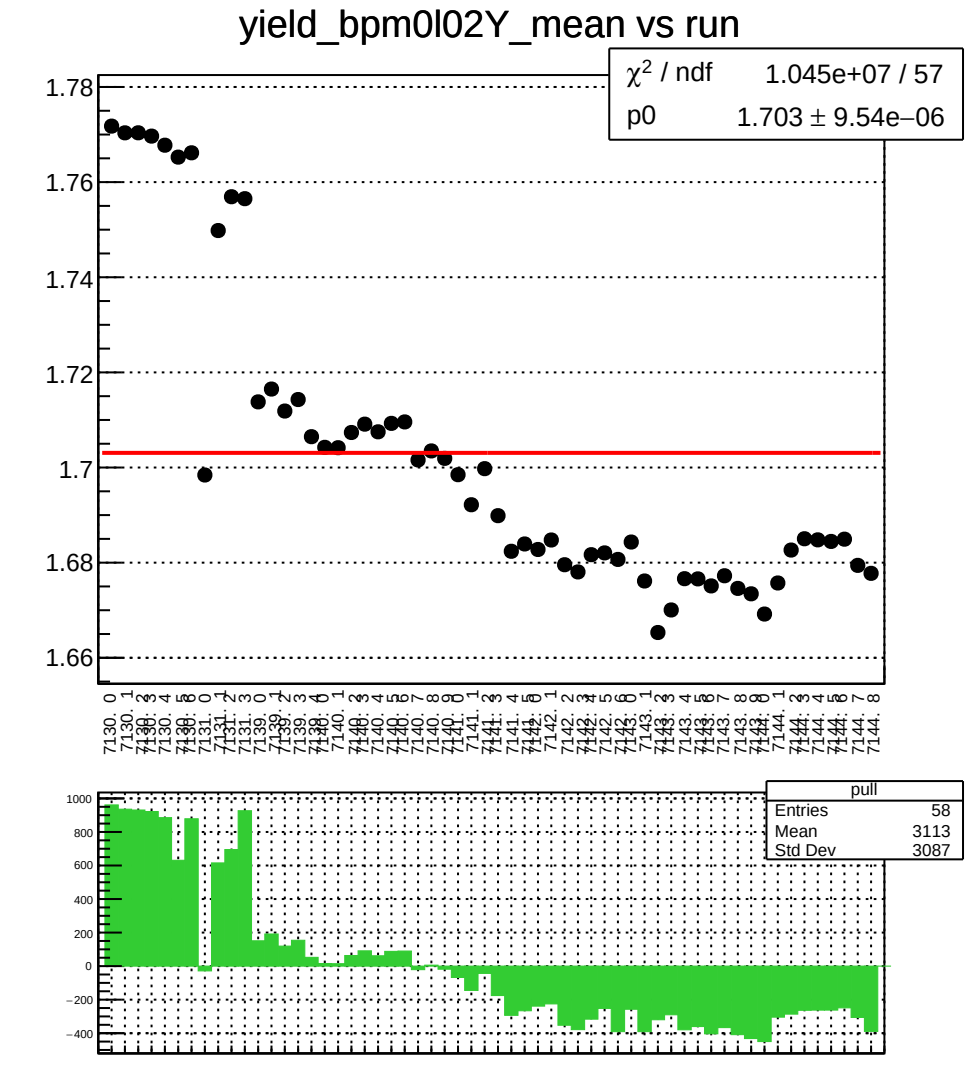

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

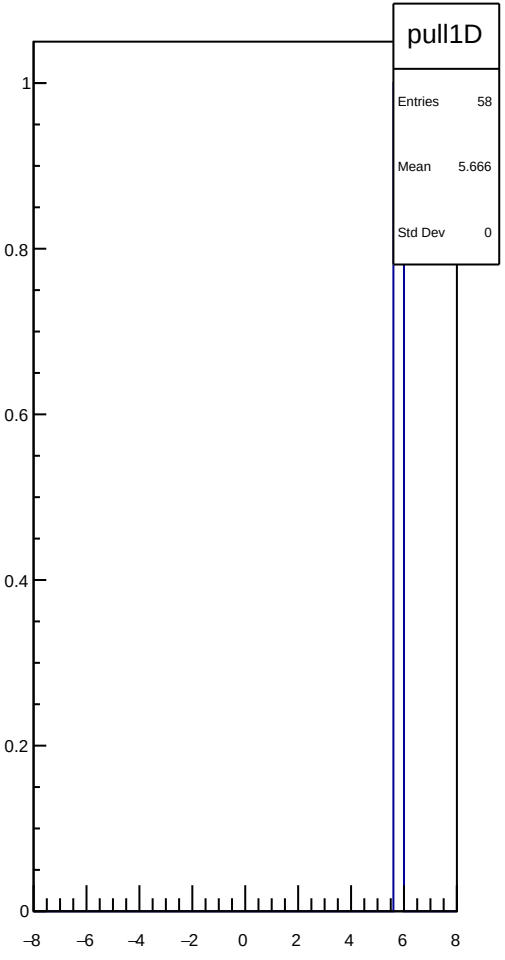

yield_bpm0l01Y_rms vs run
χ² / ndf 3.433e+04 / 57
p0 0.007435 ± 7.176e−06
0.025
0.02
0.015
0.01
0.005

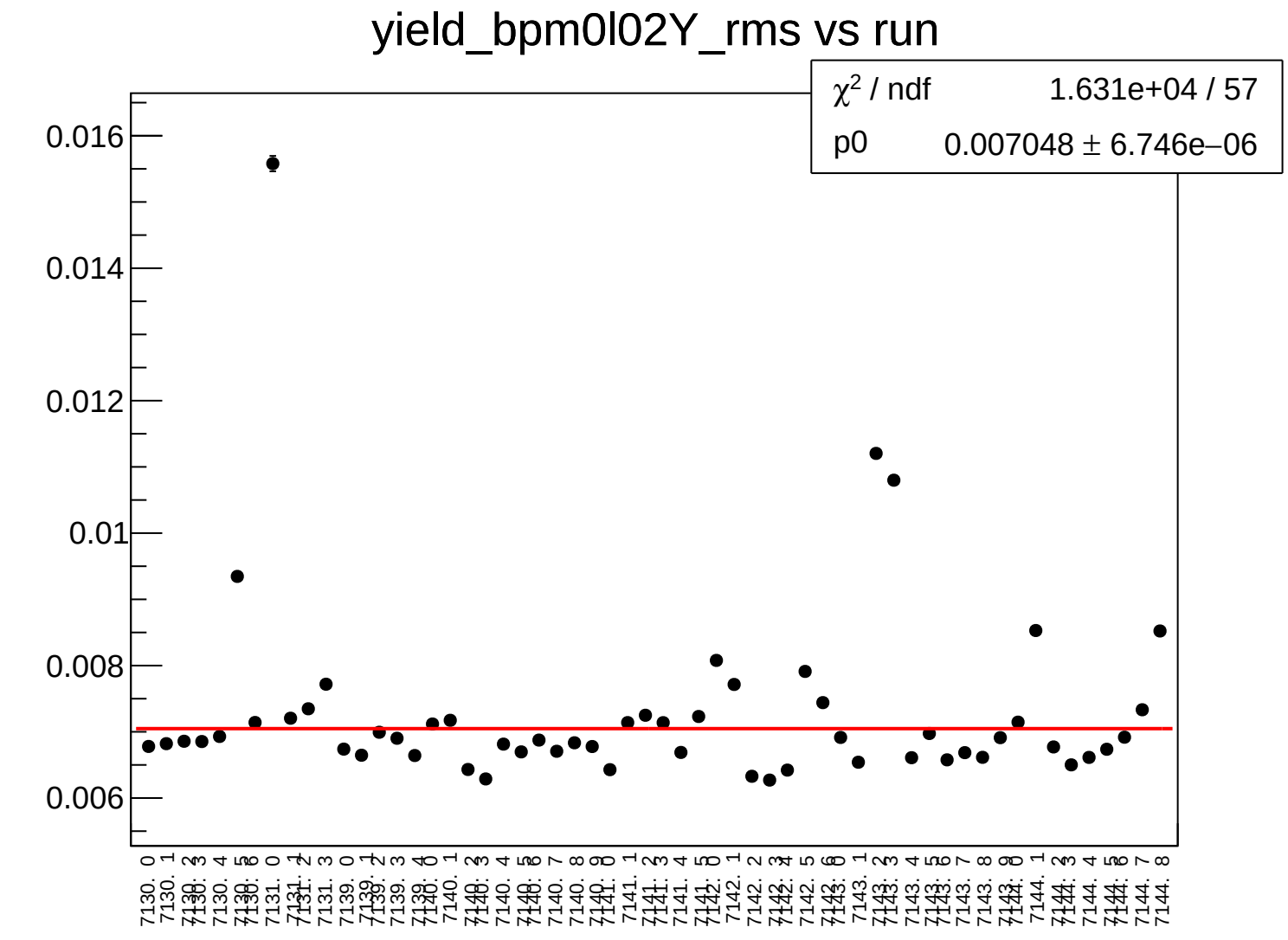

yield_bpm0l02X_mean vs run
χ² / ndf 1.718e+08 / 57
p0 −3.363 ± 2.092e−05
pull
Entries 58
Mean −584.7
Std Dev 605.1

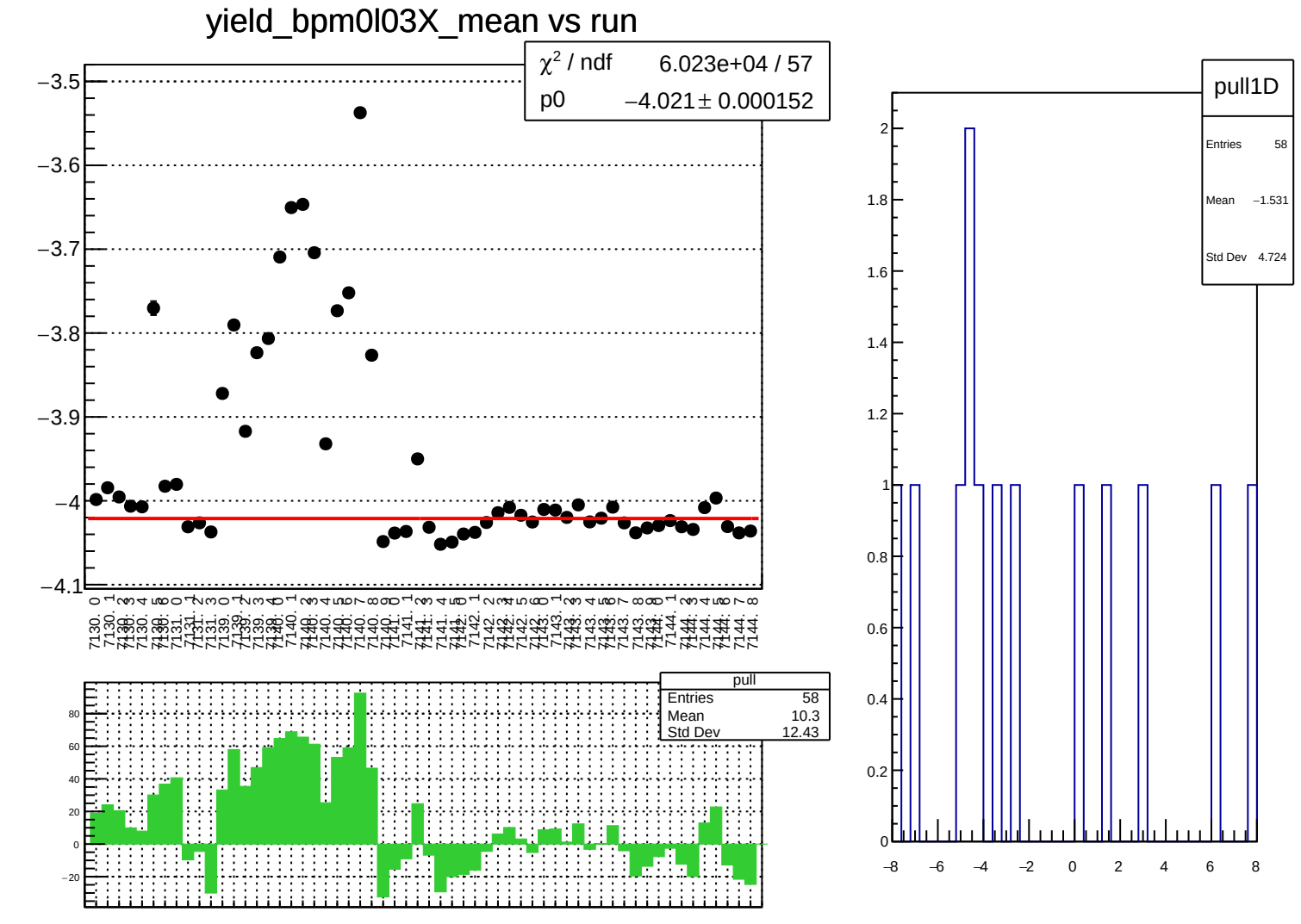

pull1D
Entries 58
Mean 0
Std Dev 0

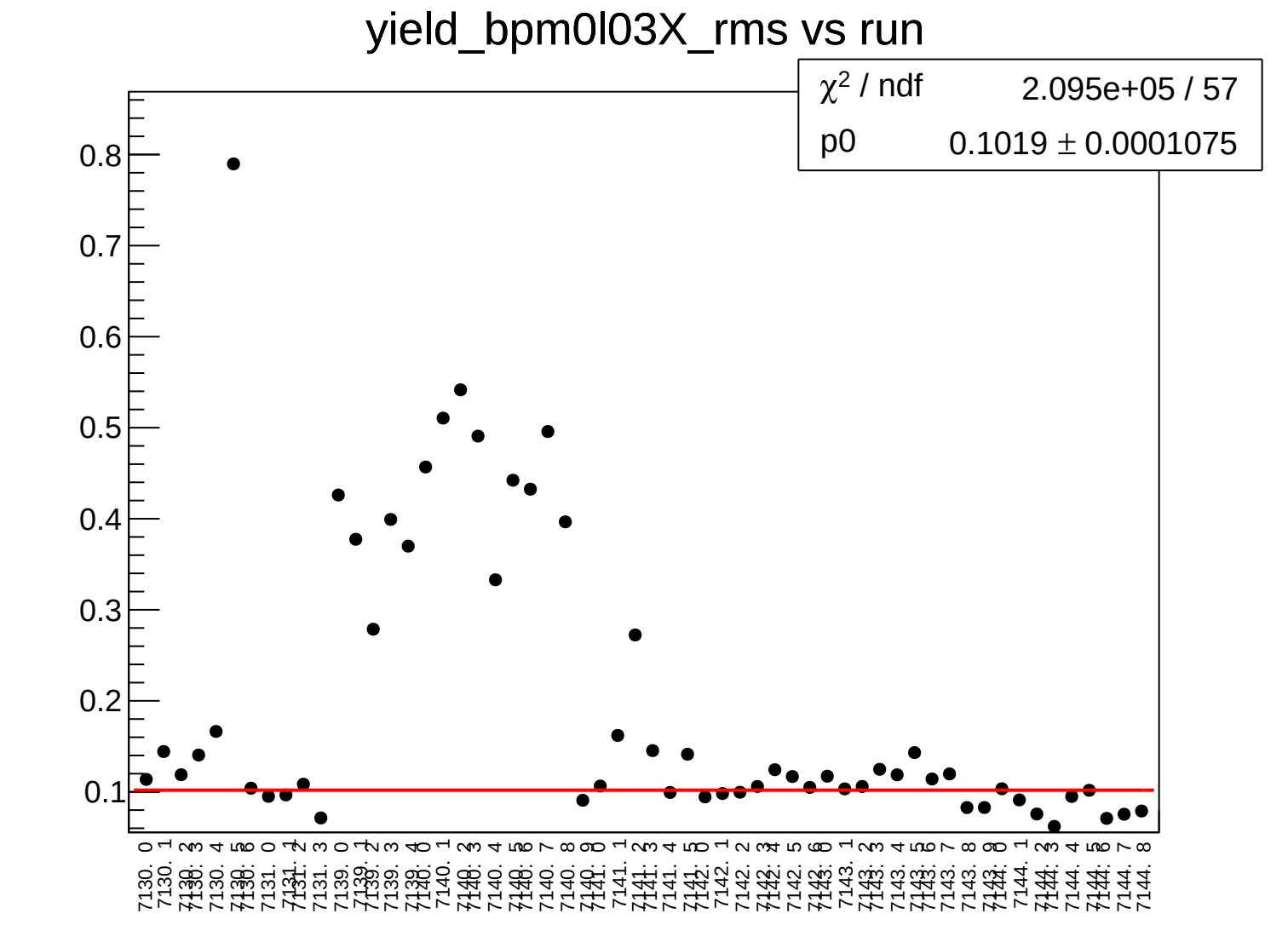

yield_bpm0l02X_rms vs run
χ² / ndf 1.931e+04 / 57
p0 0.01543 ± 1.479e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

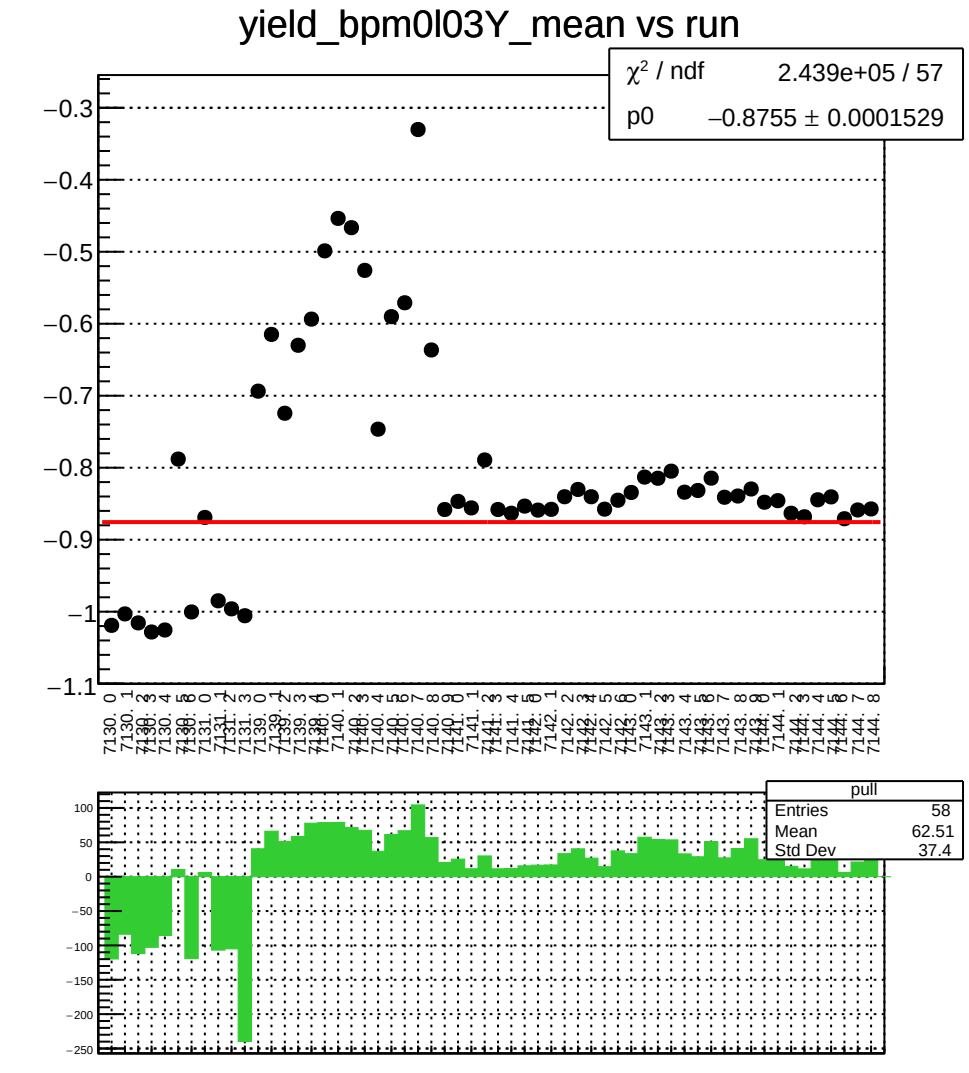

yield_bpm0l02Y_mean vs run
χ² / ndf 1.045e+07 / 57
p0 1.703 ± 9.54e−06
1.78
1.76
1.74
1.72
1.7
1.68
1.66
pull
Entries 58
Mean 3113
Std Dev 3087
1000
800
600
400
200
0
−200
−400

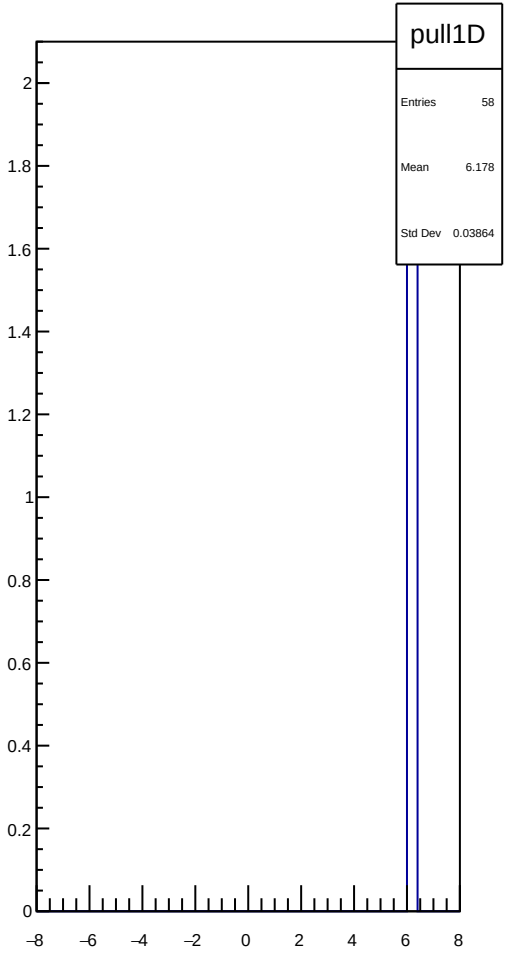

pull1D
Entries 58
Mean 5.666
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

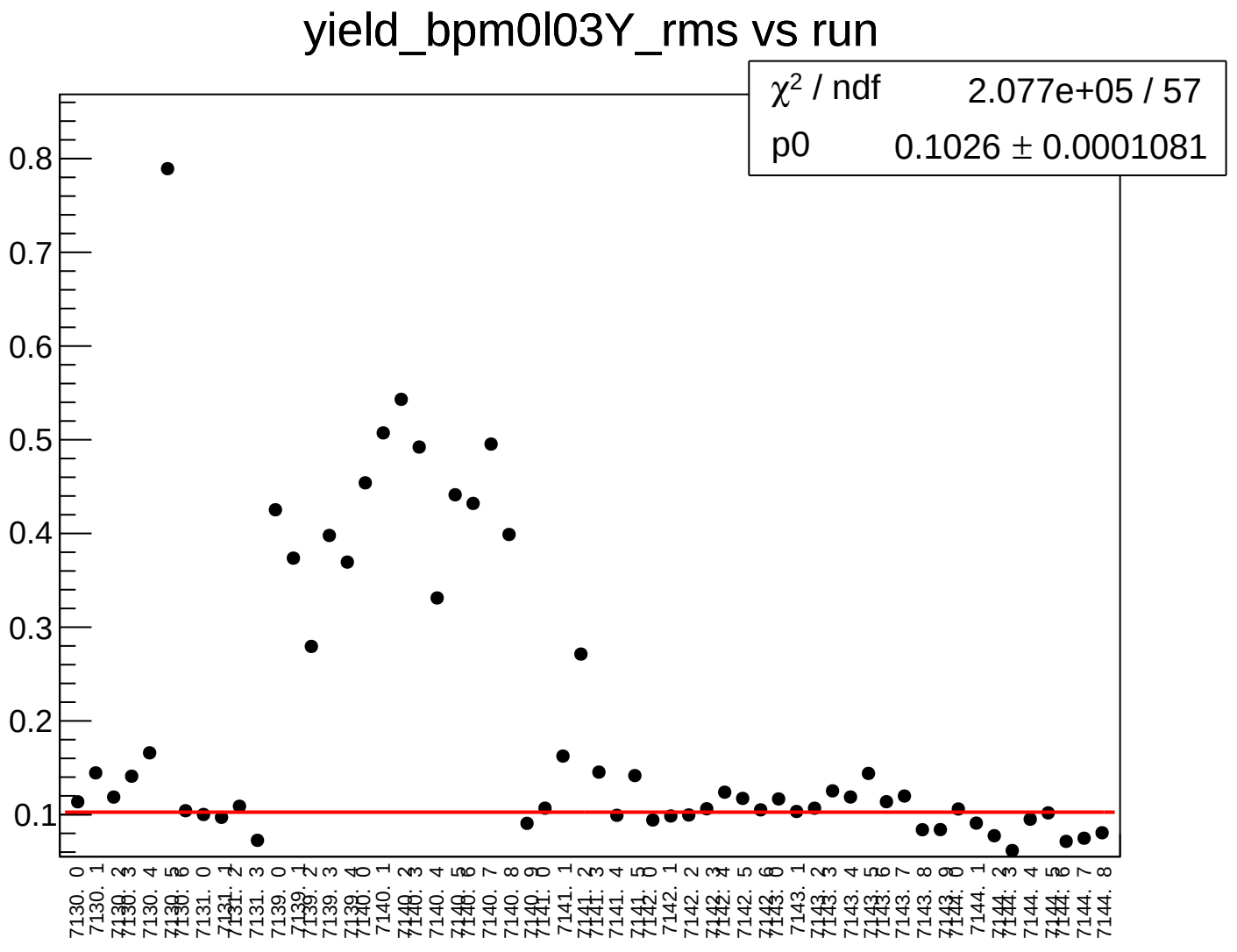

yield_bpm0l02Y_rms vs run
χ² / ndf 1.631e+04 / 57
p0 0.007048 ± 6.746e−06
0.016
0.014
0.012
0.01
0.008
0.006

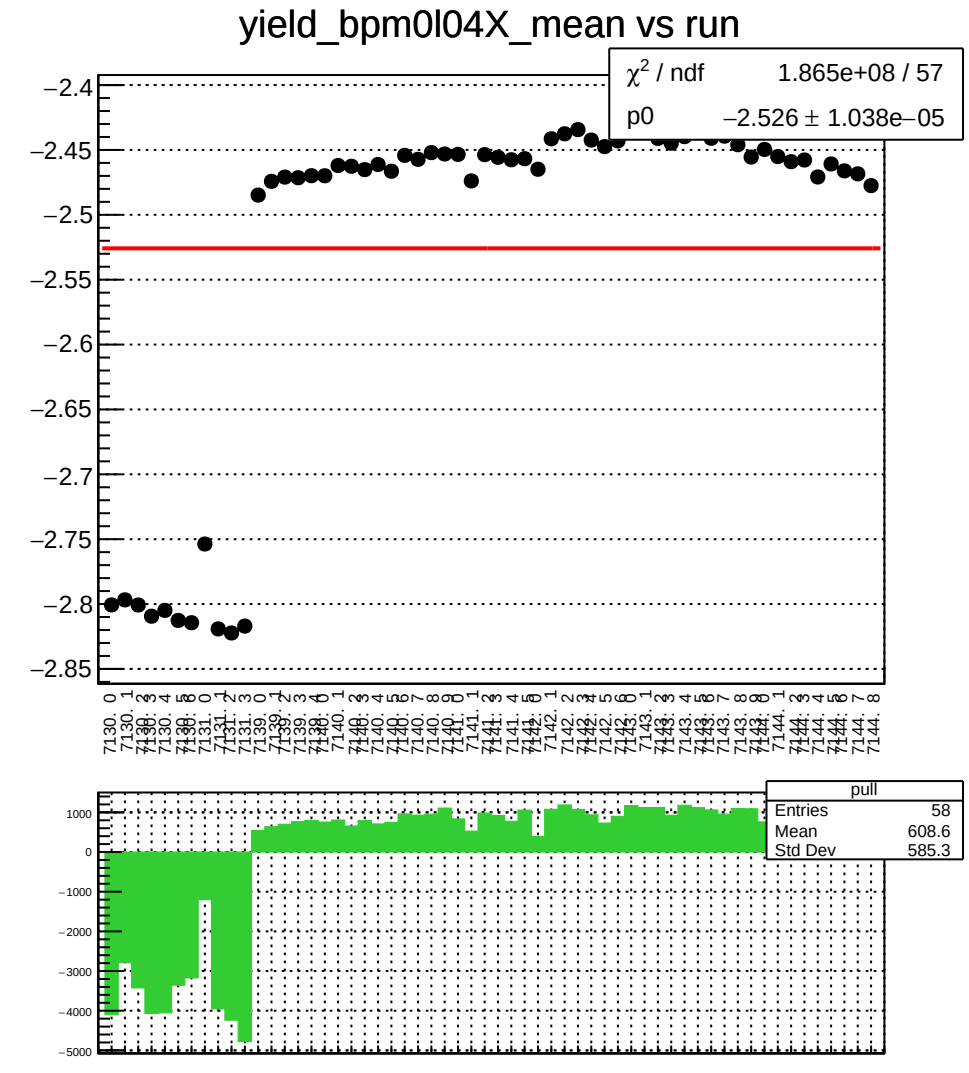

yield_bpm0l03X_mean vs run
χ² / ndf 6.023e+04 / 57
p0 −4.021 ± 0.000152
−3.5
−3.6
−3.7
−3.8
−3.9
−4
−4.1
pull
Entries 58
Mean 10.3
Std Dev 12.43
80
60
40
20
0
−20
pull1D
Entries 58
Mean −1.531
Std Dev 4.724
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

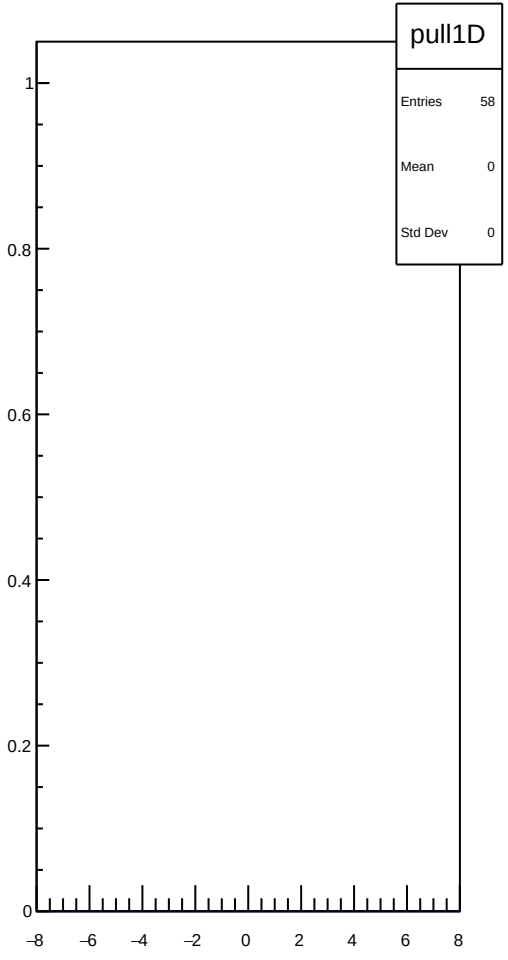

yield_bpm0l03X_rms vs run
χ² / ndf 2.095e+05 / 57
p0 0.1019 ± 0.0001075
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

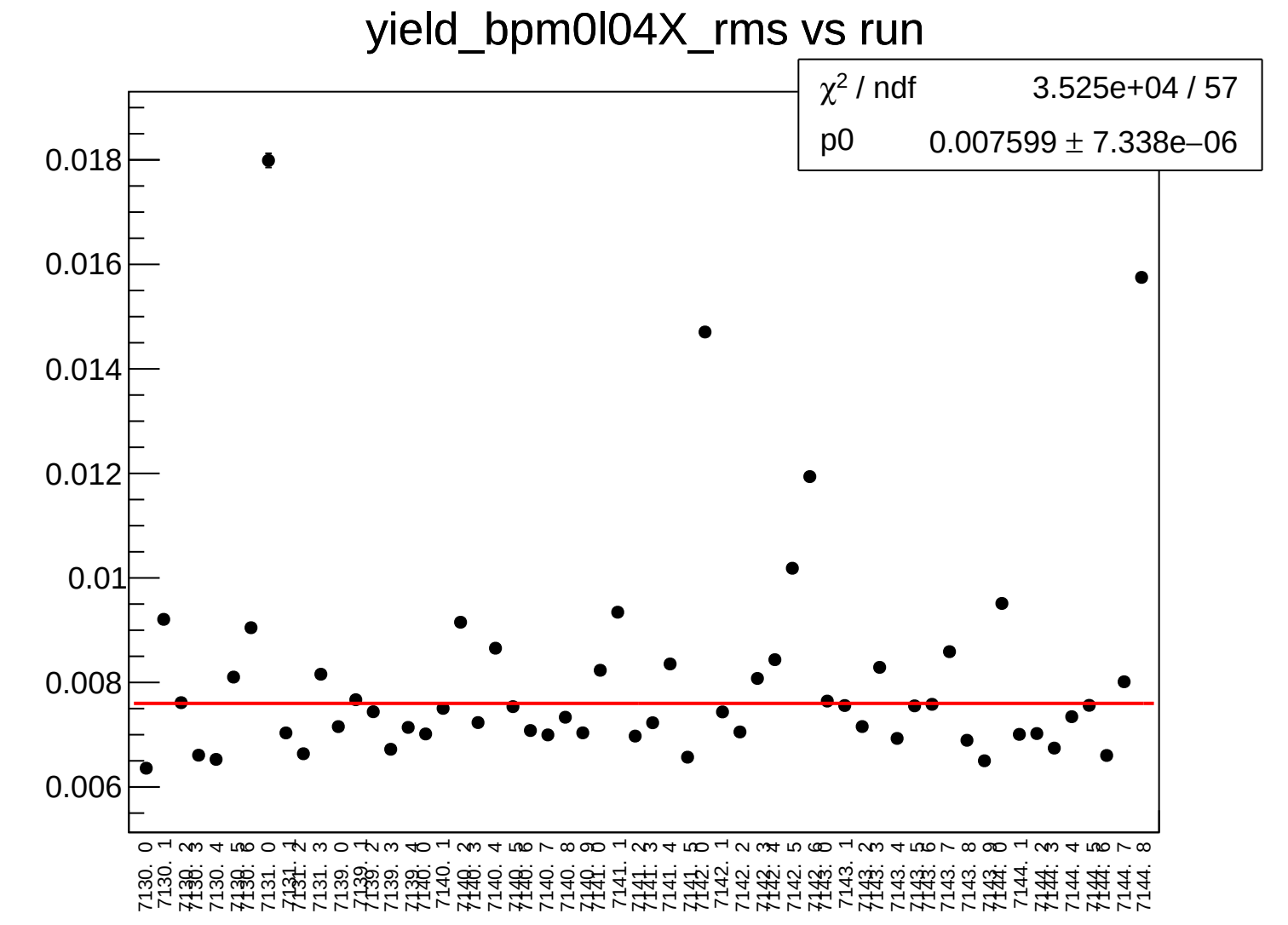

yield_bpm0l03Y_mean vs run
χ² / ndf 2.439e+05 / 57
p0 −0.8755 ± 0.0001529
pull
Entries 58
Mean 62.51
Std Dev 37.4

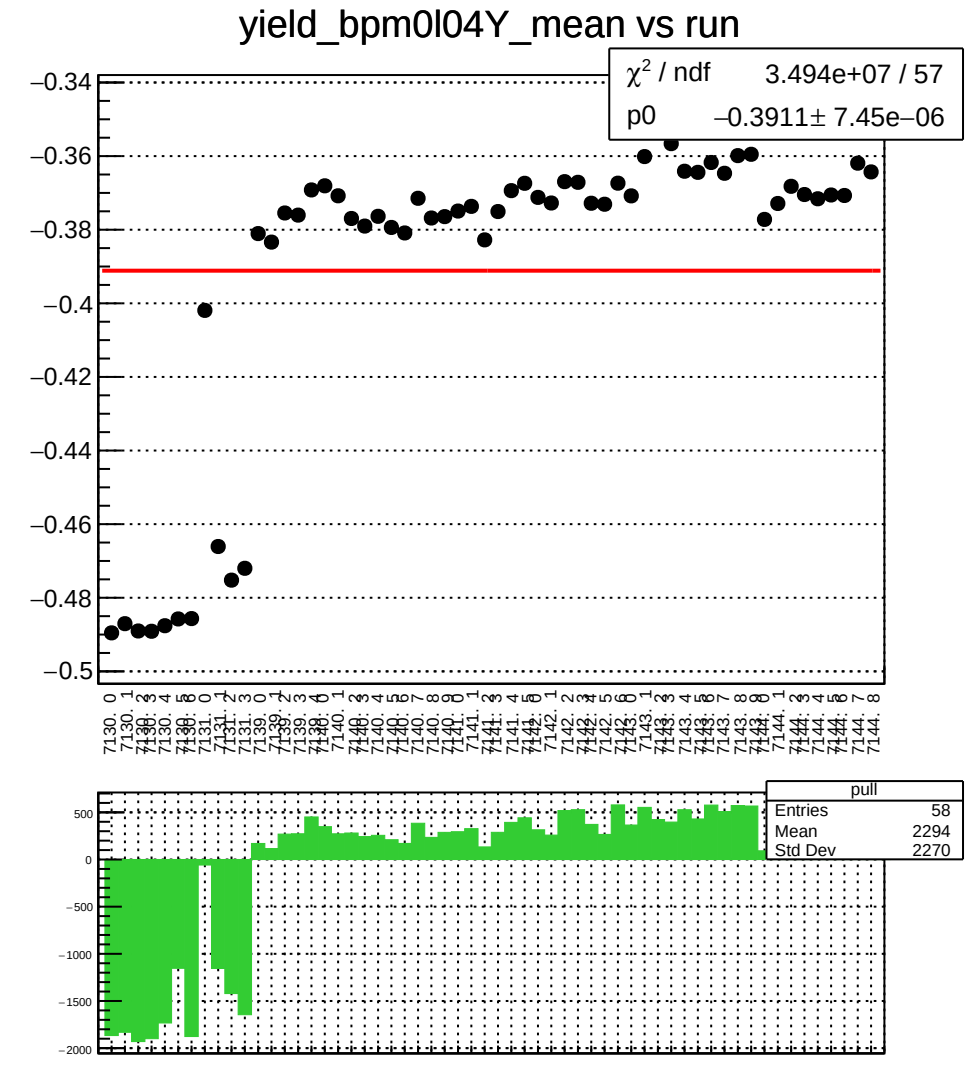

pull1D
Entries 58
Mean 6.178
Std Dev 0.03864

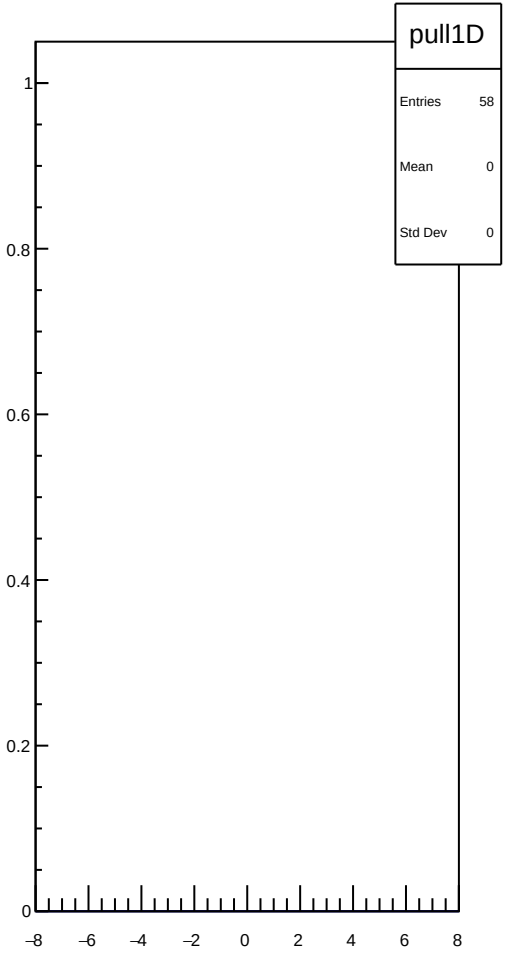

yield_bpm0l03Y_rms vs run
χ² / ndf 2.077e+05 / 57
p0 0.1026 ± 0.0001081
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

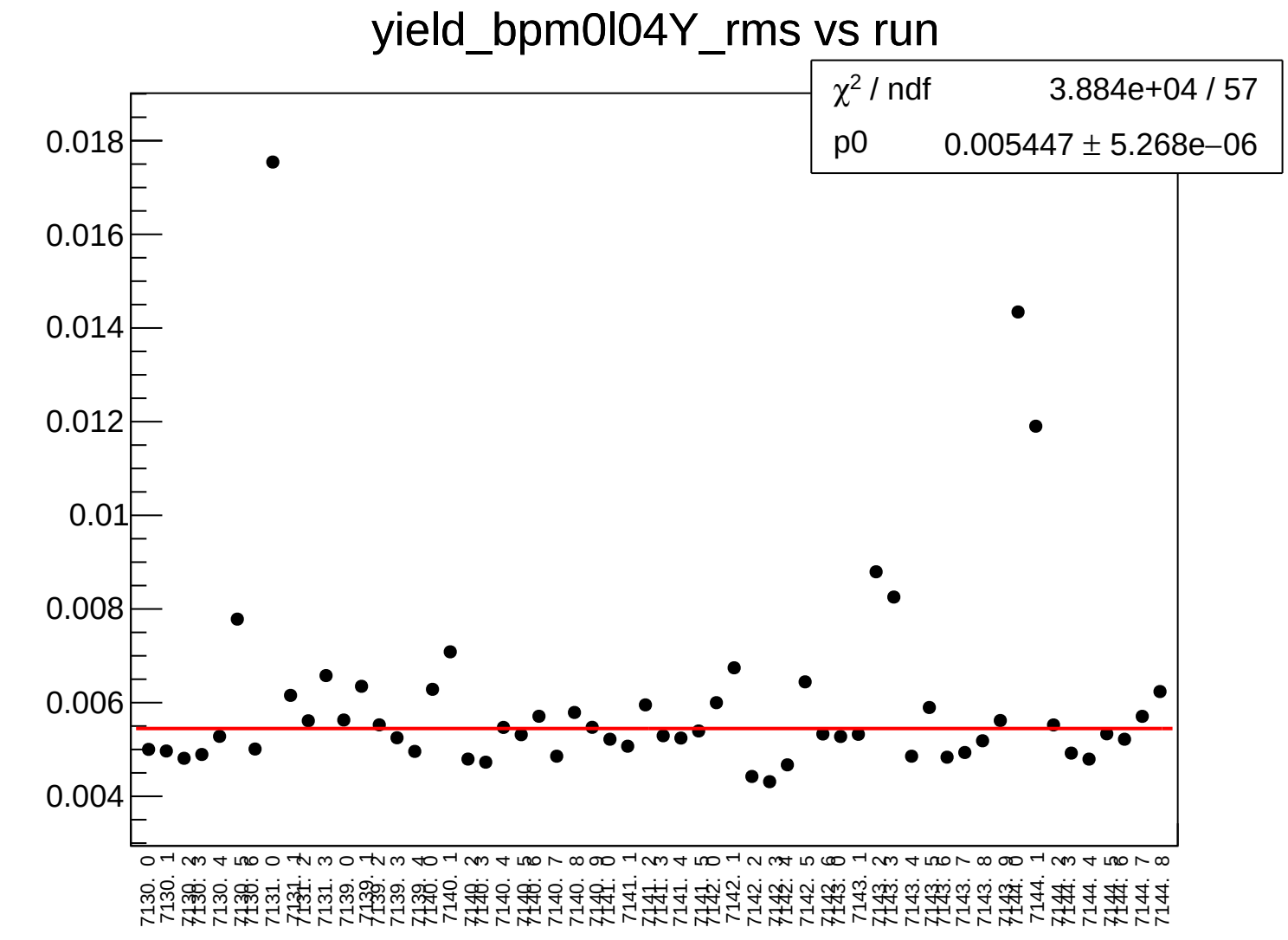

yield_bpm0l04X_mean vs run
χ² / ndf 1.865e+08 / 57
p0 −2.526 ± 1.038e−05
pull
Entries 58
Mean 608.6
Std Dev 585.3

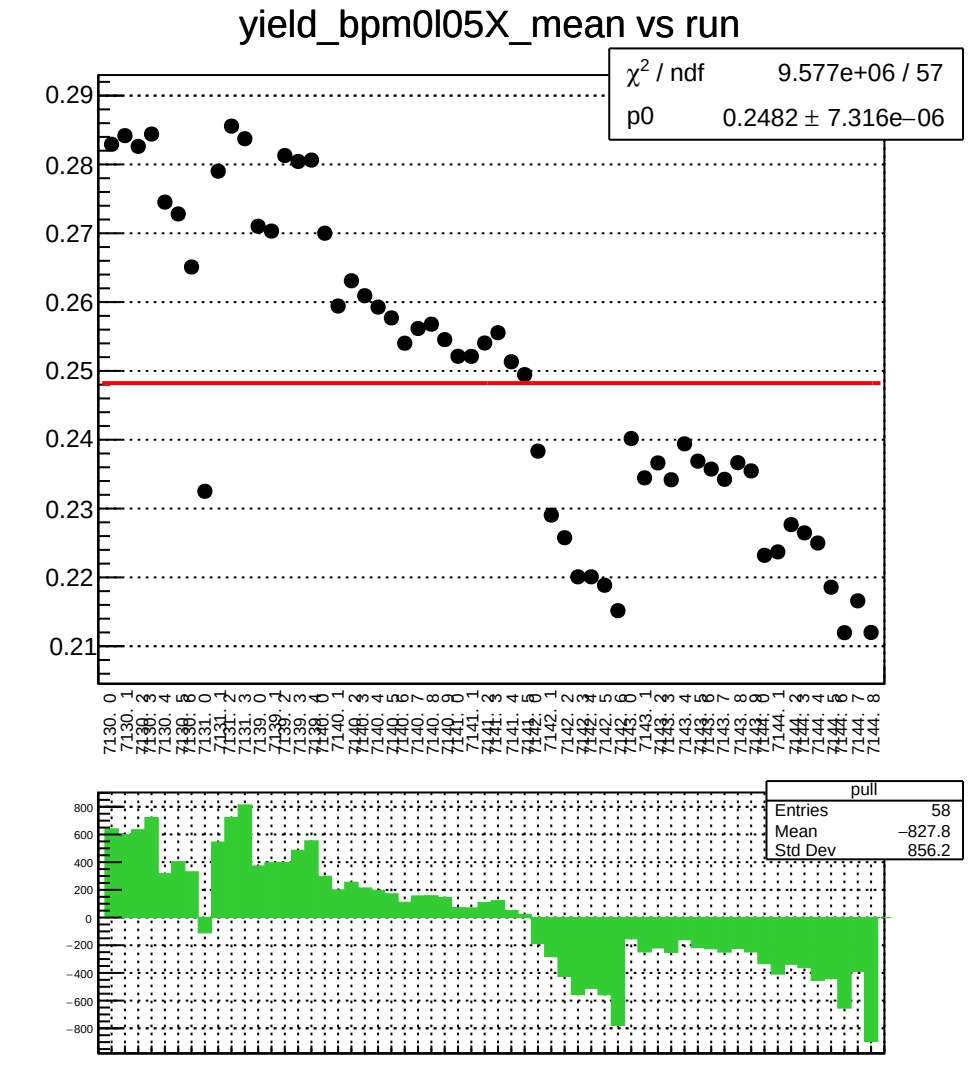

pull1D
Entries 58
Mean 0
Std Dev 0

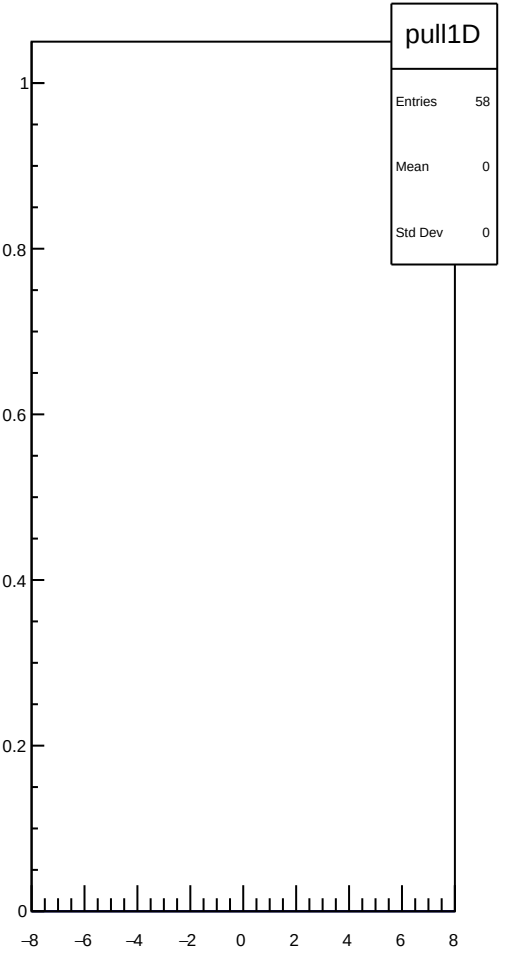

yield_bpm0l04X_rms vs run
χ² / ndf 3.525e+04 / 57
p0 0.007599 ± 7.338e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

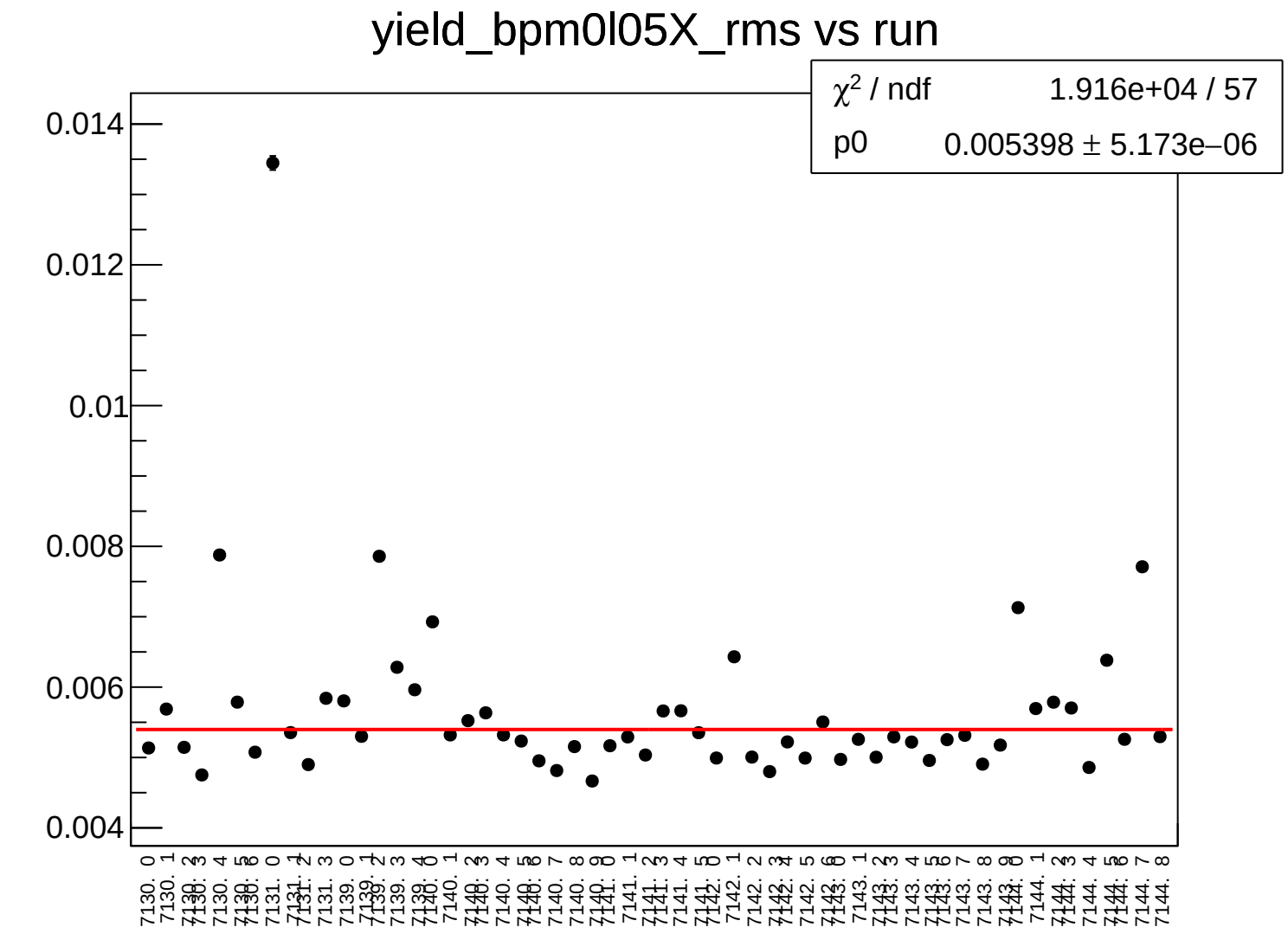

yield_bpm0l04Y_mean vs run
χ² / ndf 3.494e+07 / 57
p0 −0.3911± 7.45e−06
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 58
Mean 2294
Std Dev 2270
500
0
−500
−1000
−1500
−2000

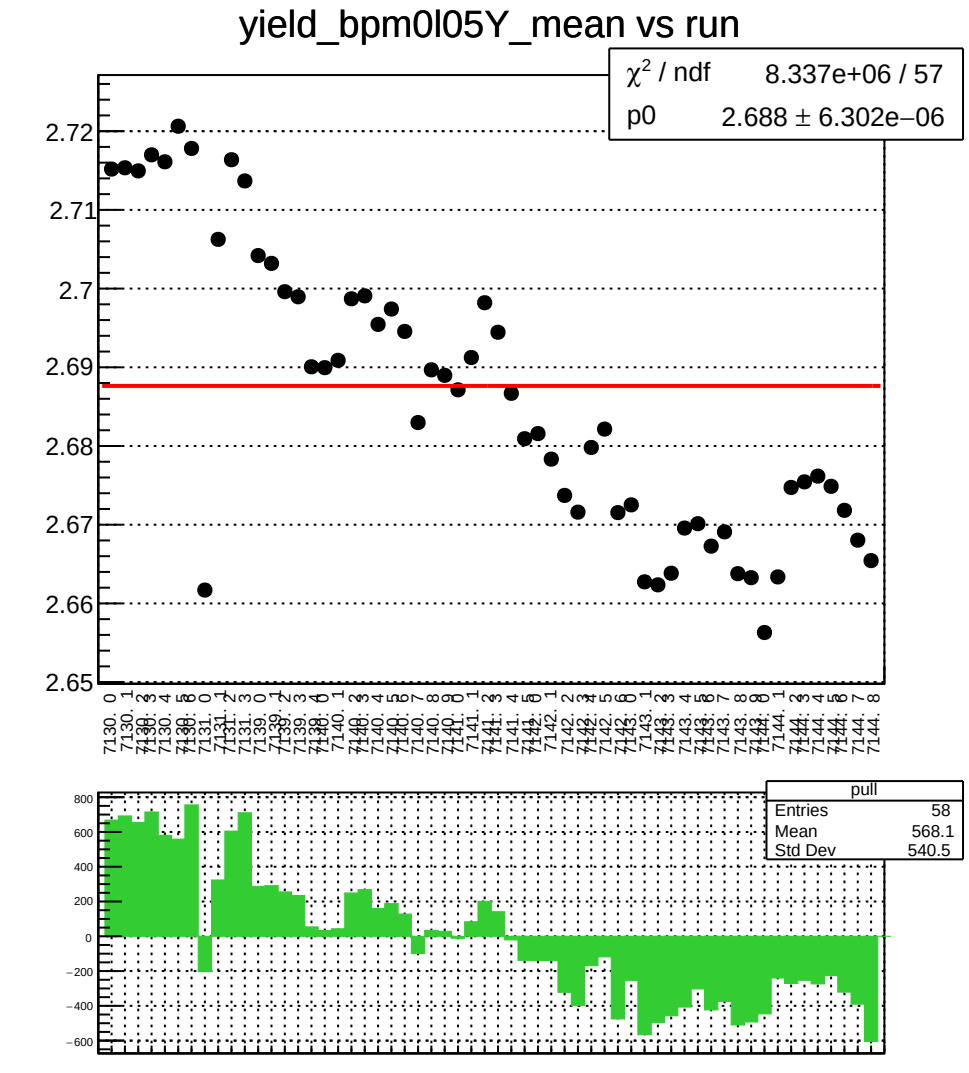

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

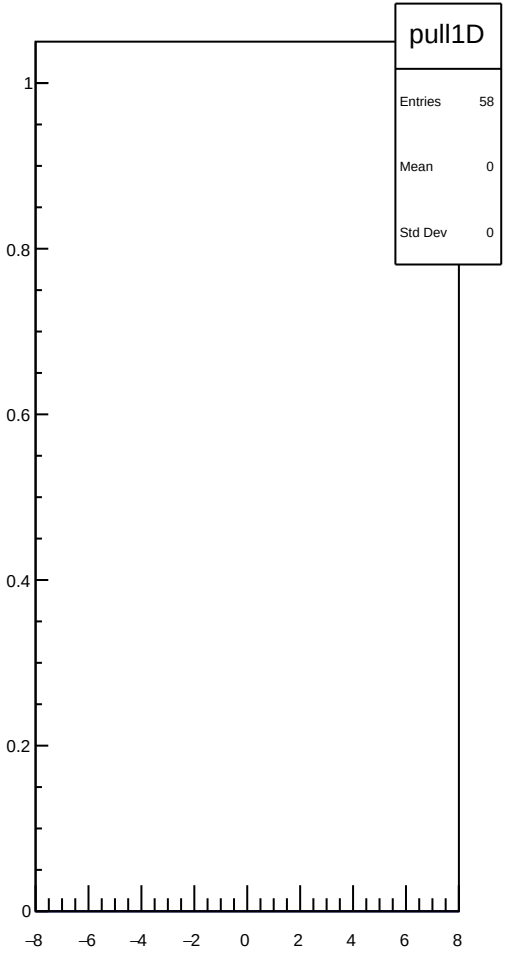

yield_bpm0l04Y_rms vs run
χ² / ndf 3.884e+04 / 57
p0 0.005447 ± 5.268e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

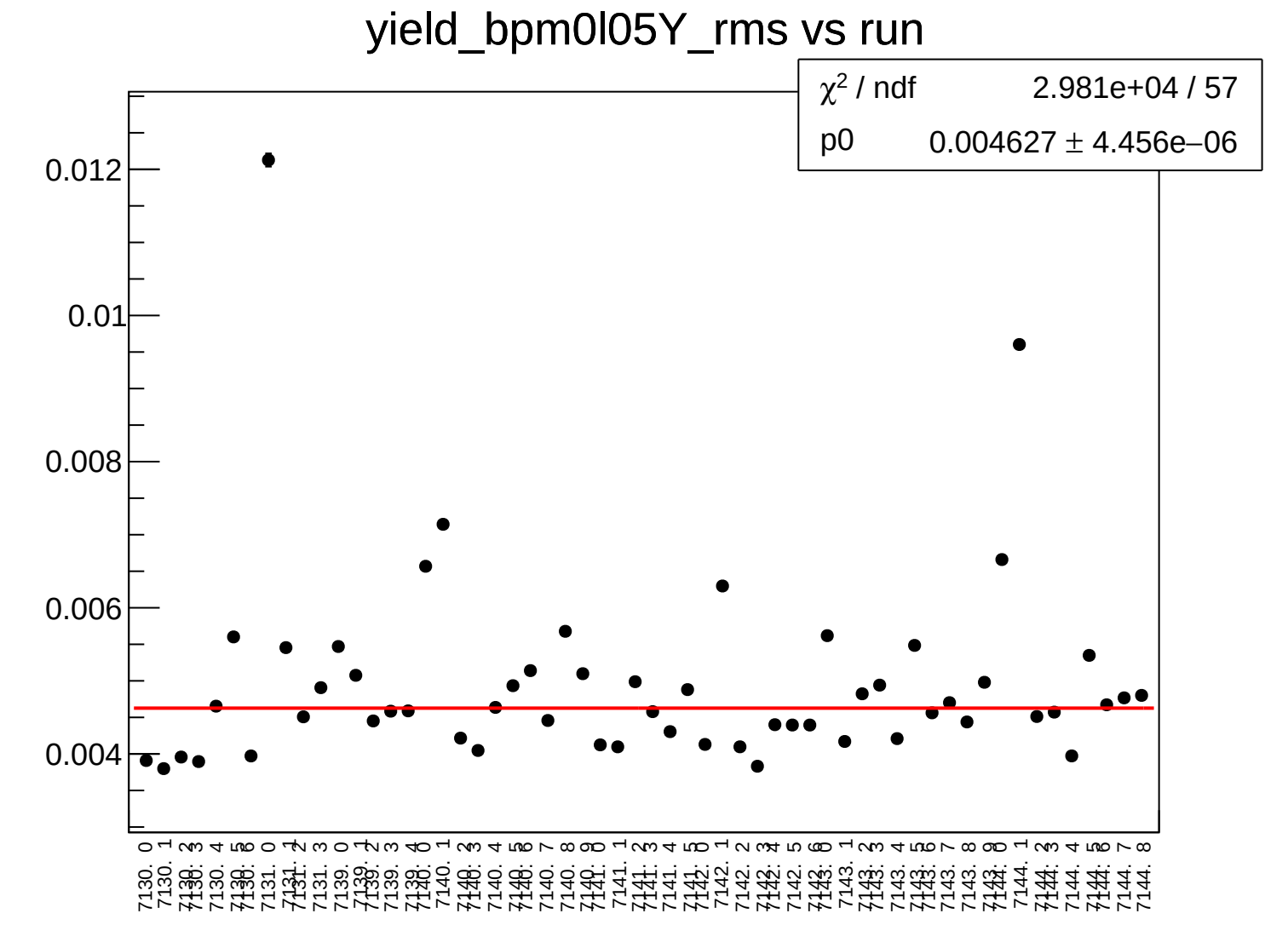

yield_bpm0l05X_mean vs run
χ² / ndf 9.577e+06 / 57
p0 0.2482 ± 7.316e−06
0.29
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
pull
Entries 58
Mean −827.8
Std Dev 856.2
800
600
400
200
0
−200
−400
−600
−800

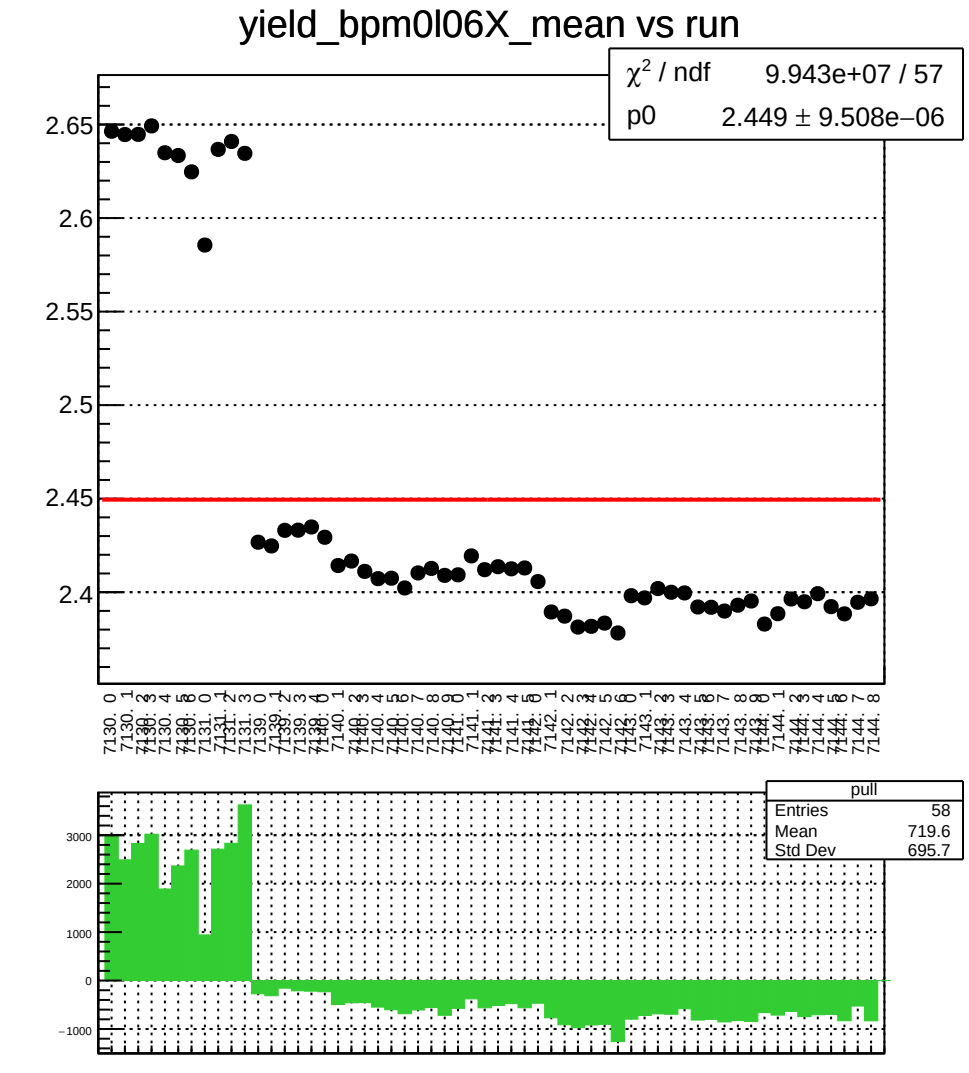

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

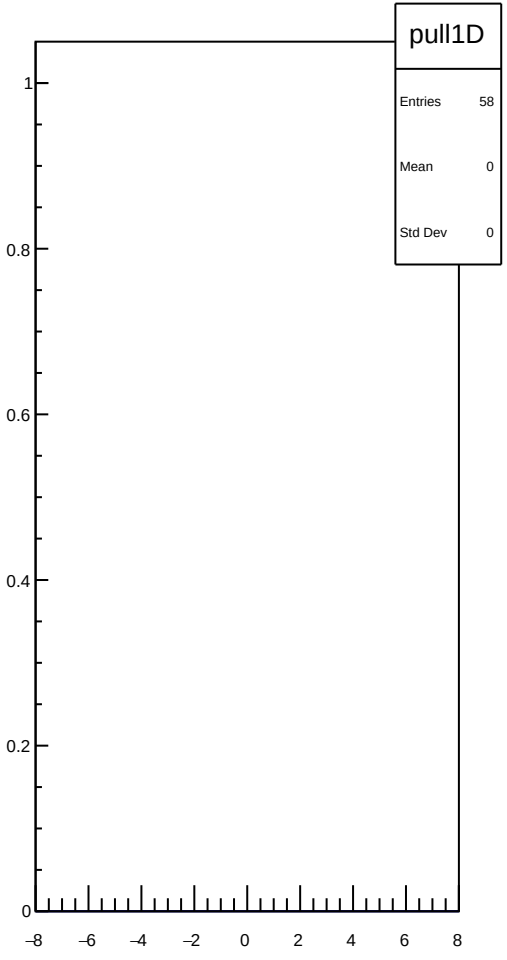

yield_bpm0l05X_rms vs run
χ^2 / ndf 1.916e+04 / 57
p0 0.005398 ± 5.173e−06
0.014
0.012
0.01
0.008
0.006
0.004

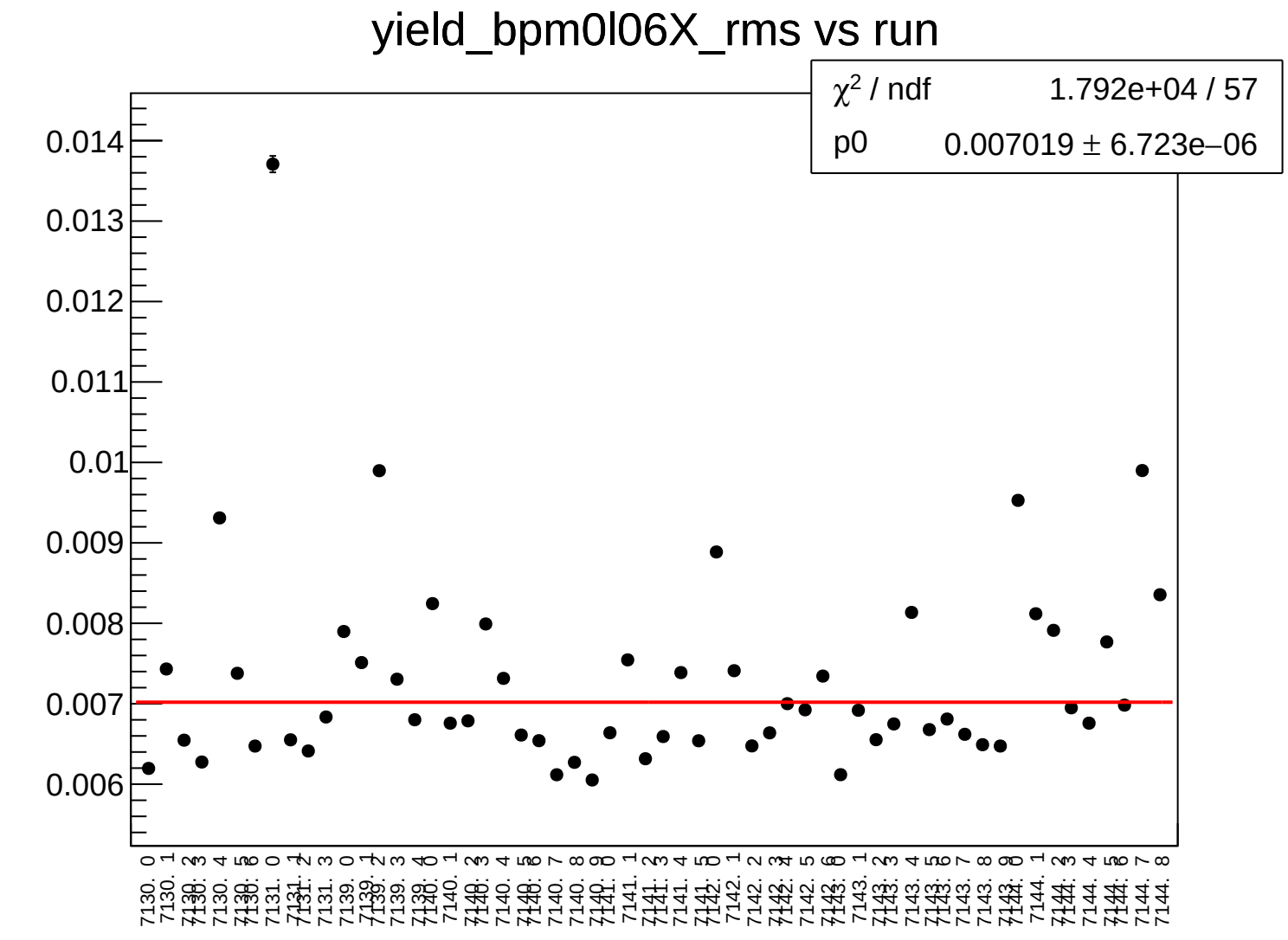

yield_bpm0l05Y_mean vs run
χ² / ndf 8.337e+06 / 57
p0 2.688 ± 6.302e−06
2.72
2.71
2.7
2.69
2.68
2.67
2.66
2.65
pull
Entries 58
Mean 568.1
Std Dev 540.5
800
600
400
200
0
−200
−400
−600

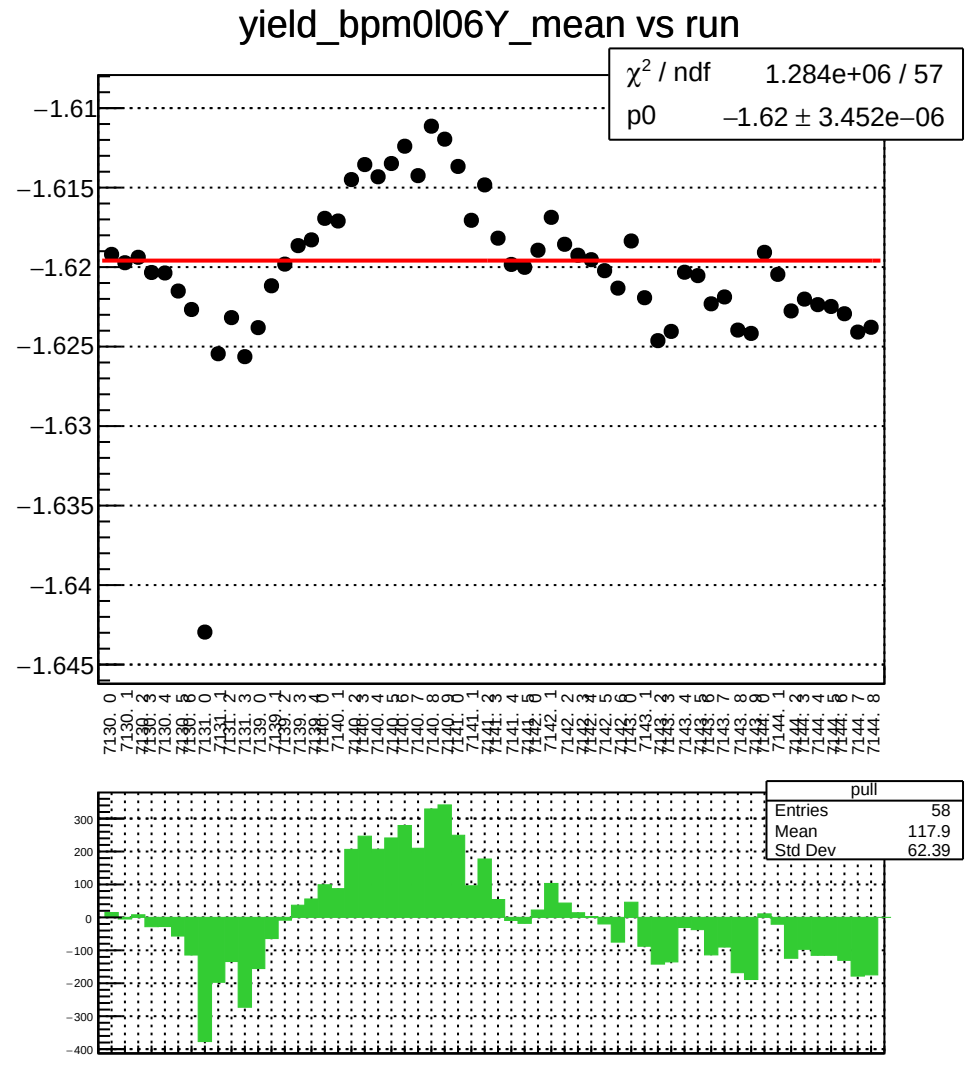

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

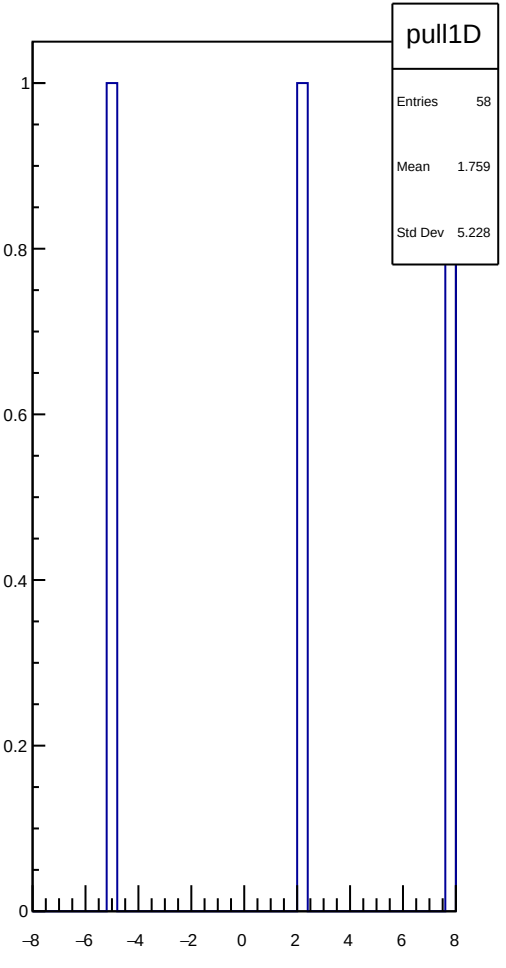

yield_bpm0l05Y_rms vs run
χ² / ndf 2.981e+04 / 57
p0 0.004627 ± 4.456e−06
0.012
0.01
0.008
0.006
0.004

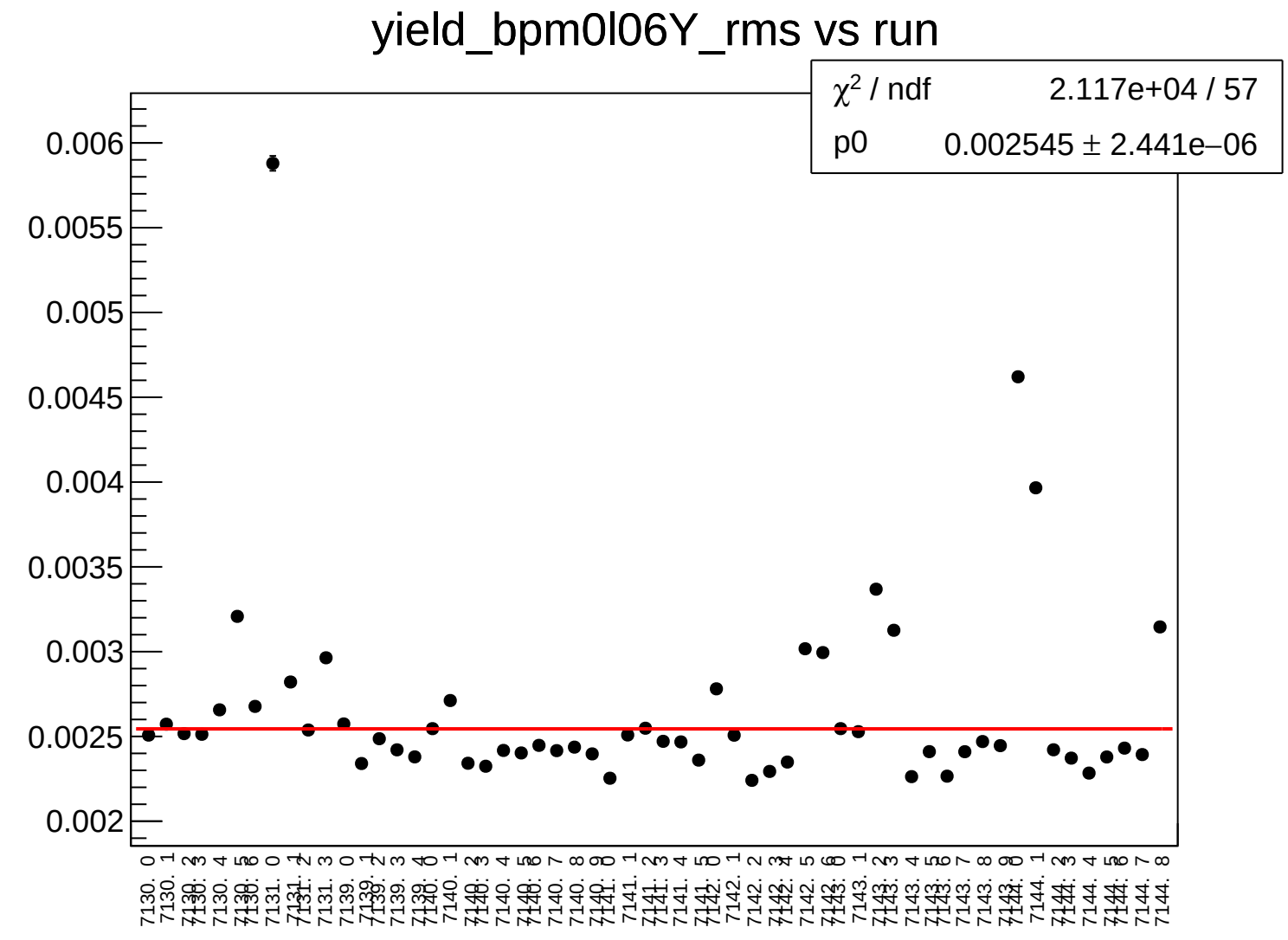

yield_bpm0l06X_mean vs run
χ² / ndf 9.943e+07 / 57
p0 2.449 ± 9.508e−06
2.65
2.6
2.55
2.5
2.45
2.4
pull
Entries 58
Mean 719.6
Std Dev 695.7
3000
2000
1000
0
−1000

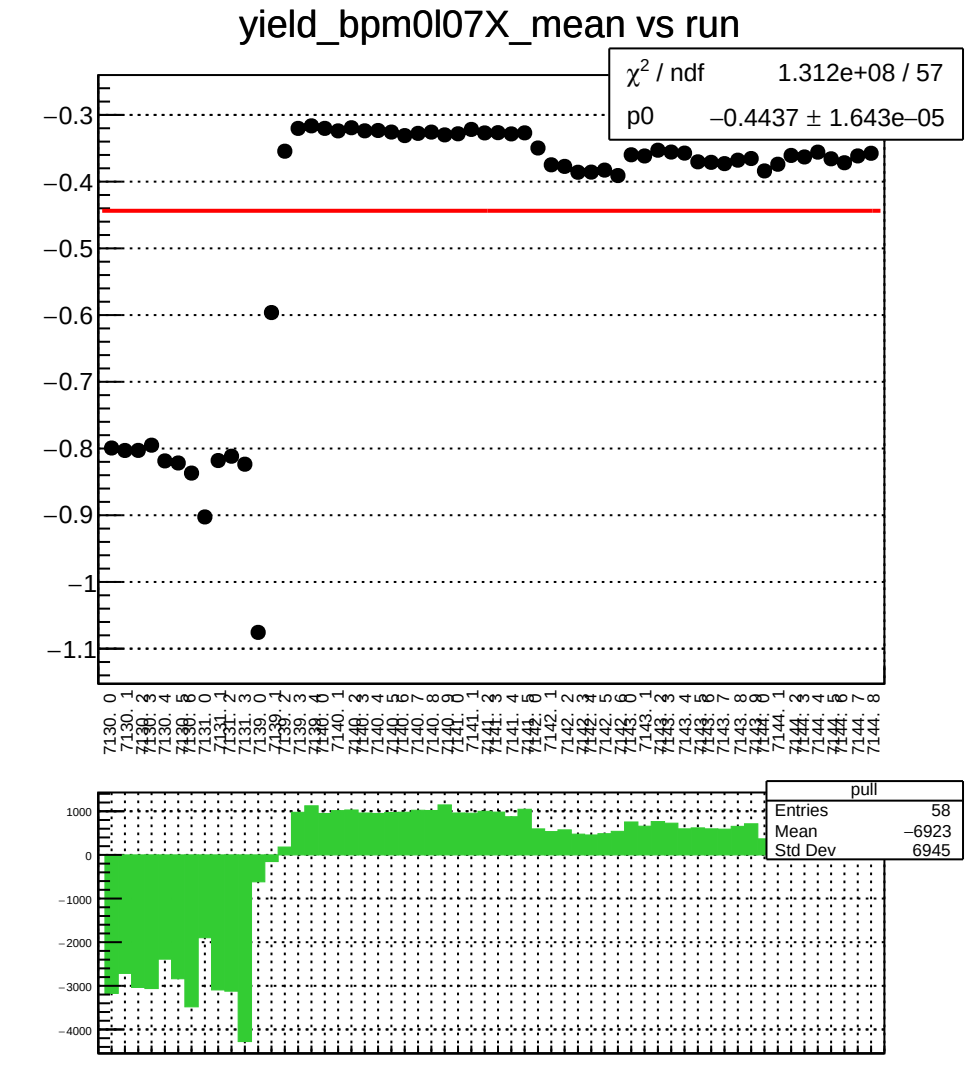

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

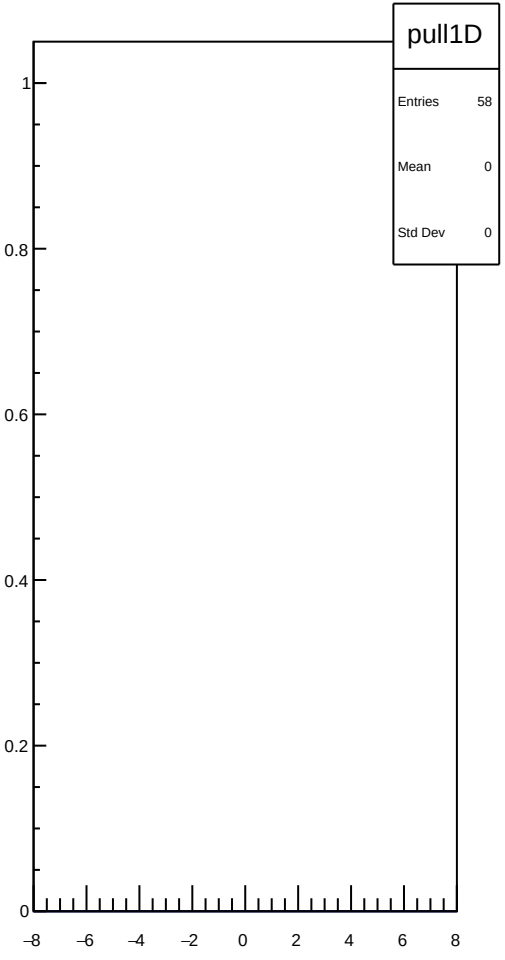

yield_bpm0l06X_rms vs run
χ² / ndf 1.792e+04 / 57
p0 0.007019 ± 6.723e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

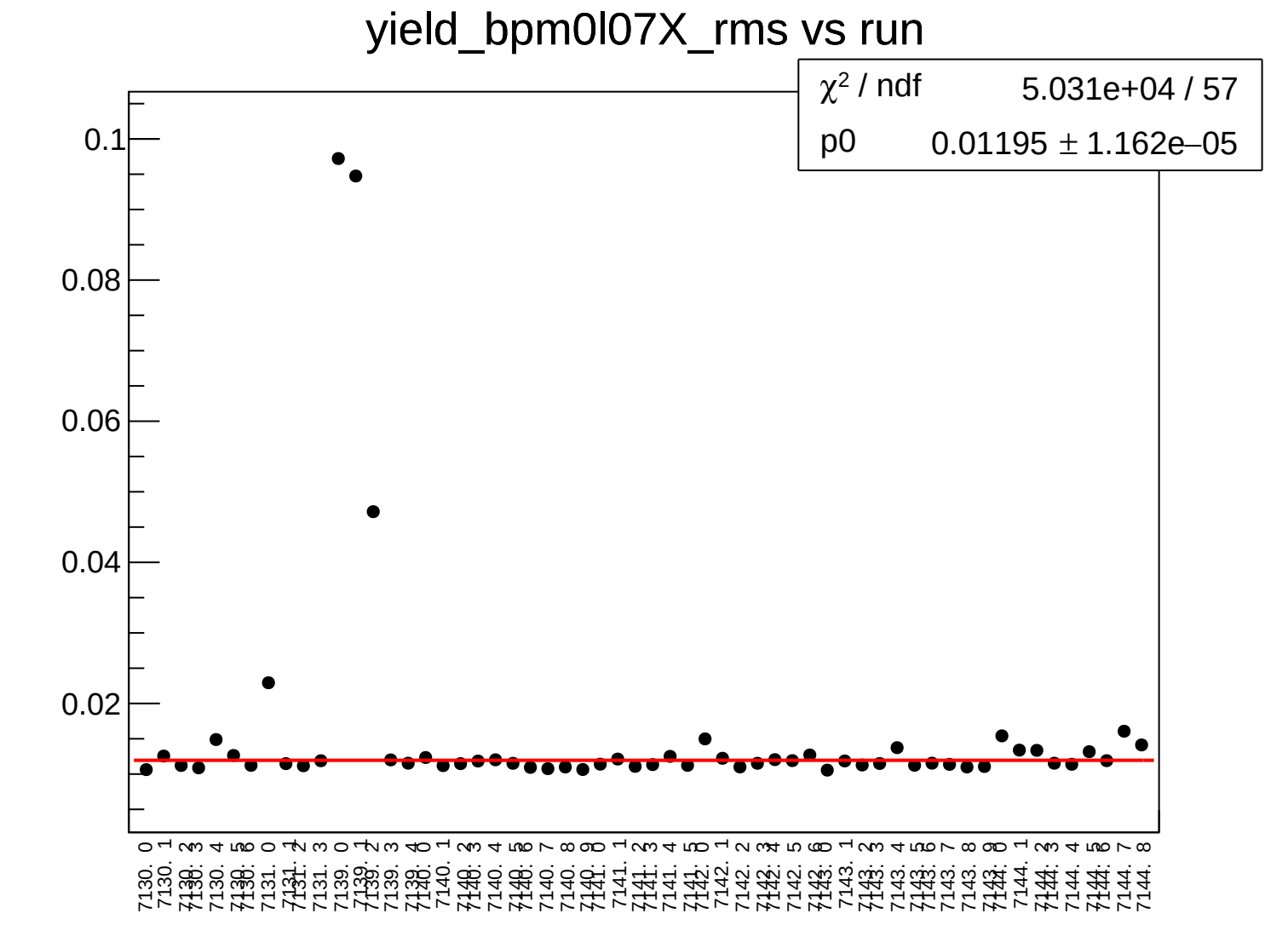

yield_bpm0l06Y_mean vs run
χ² / ndf 1.284e+06 / 57
p0 −1.62 ± 3.452e−06
−1.61
−1.615
−1.62
−1.625
−1.63
−1.635
−1.64
−1.645
pull
Entries 58
Mean 117.9
Std Dev 62.39
300
200
100
0
−100
−200
−300
−400

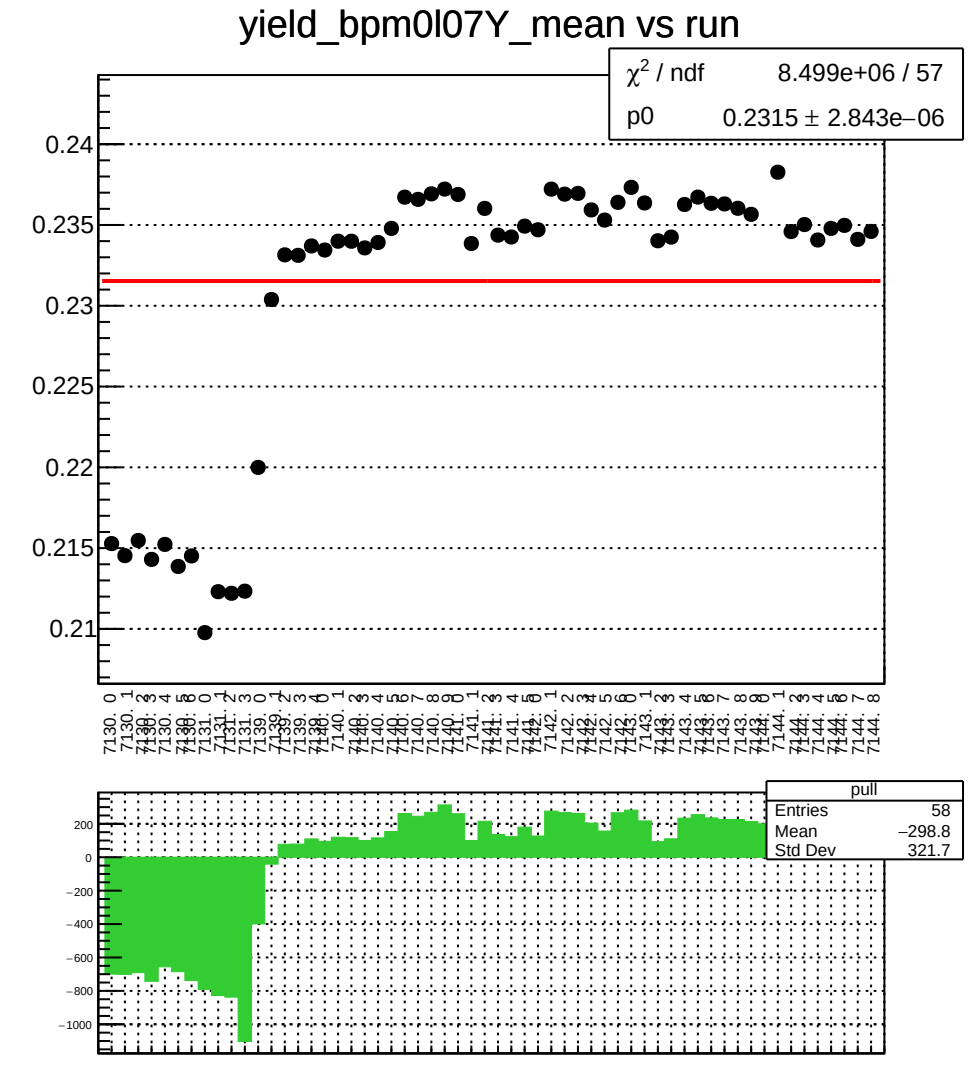

pull1D
Entries 58
Mean 1.759
Std Dev 5.228
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

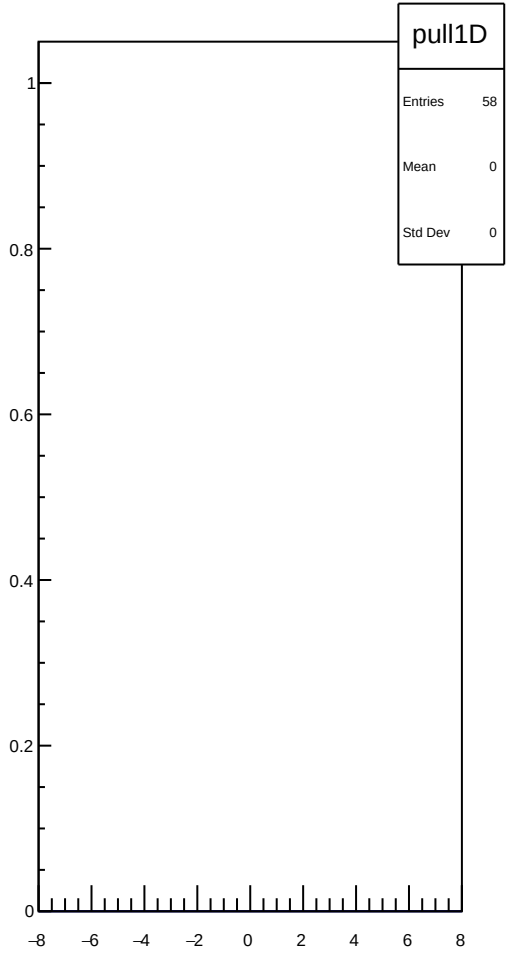

yield_bpm0l06Y_rms vs run
χ² / ndf 2.117e+04 / 57
p0 0.002545 ± 2.441e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

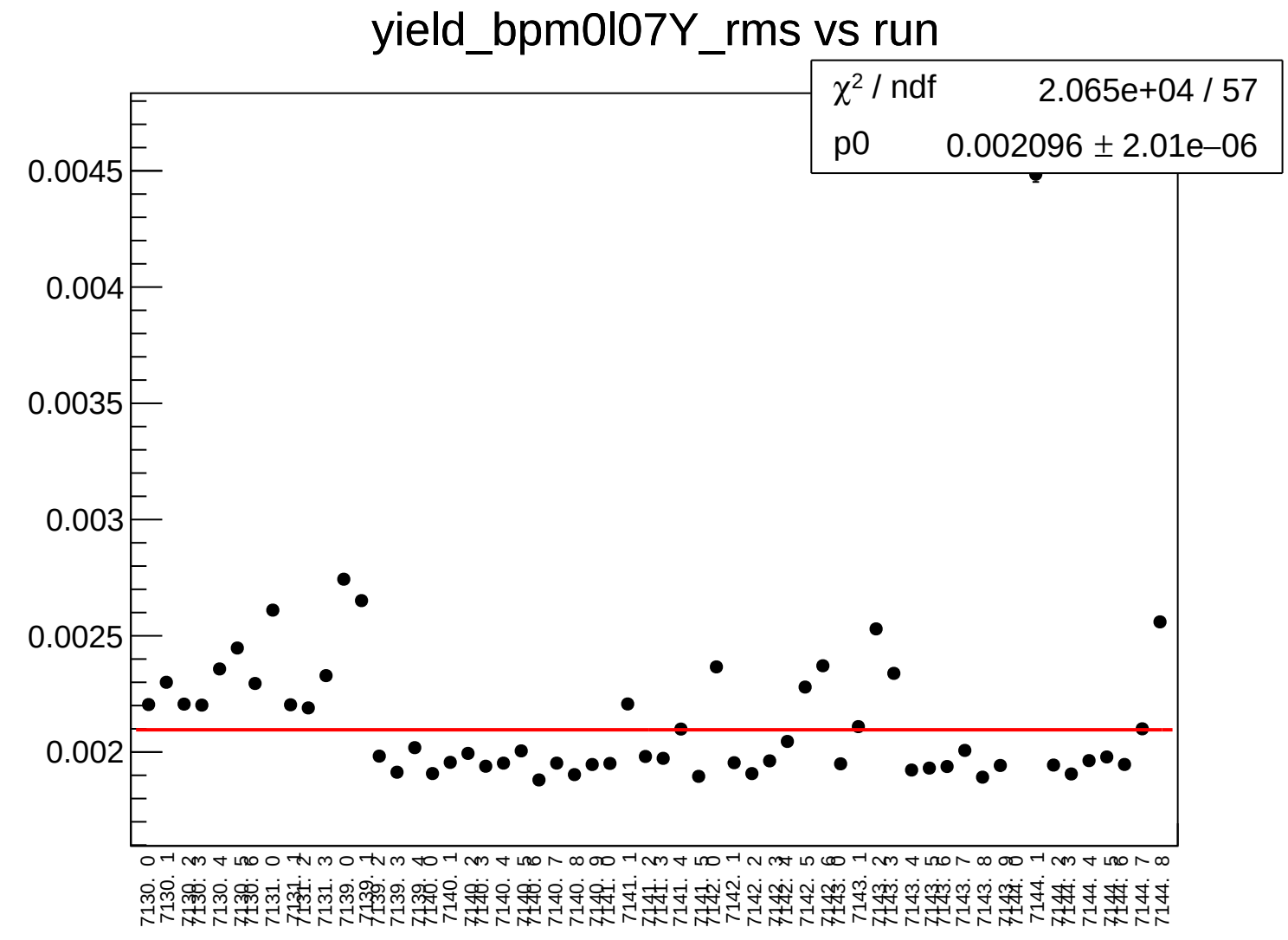

yield_bpm0l07X_mean vs run
χ² / ndf 1.312e+08 / 57
p0 −0.4437 ± 1.643e−05
pull
Entries 58
Mean −6923
Std Dev 6945

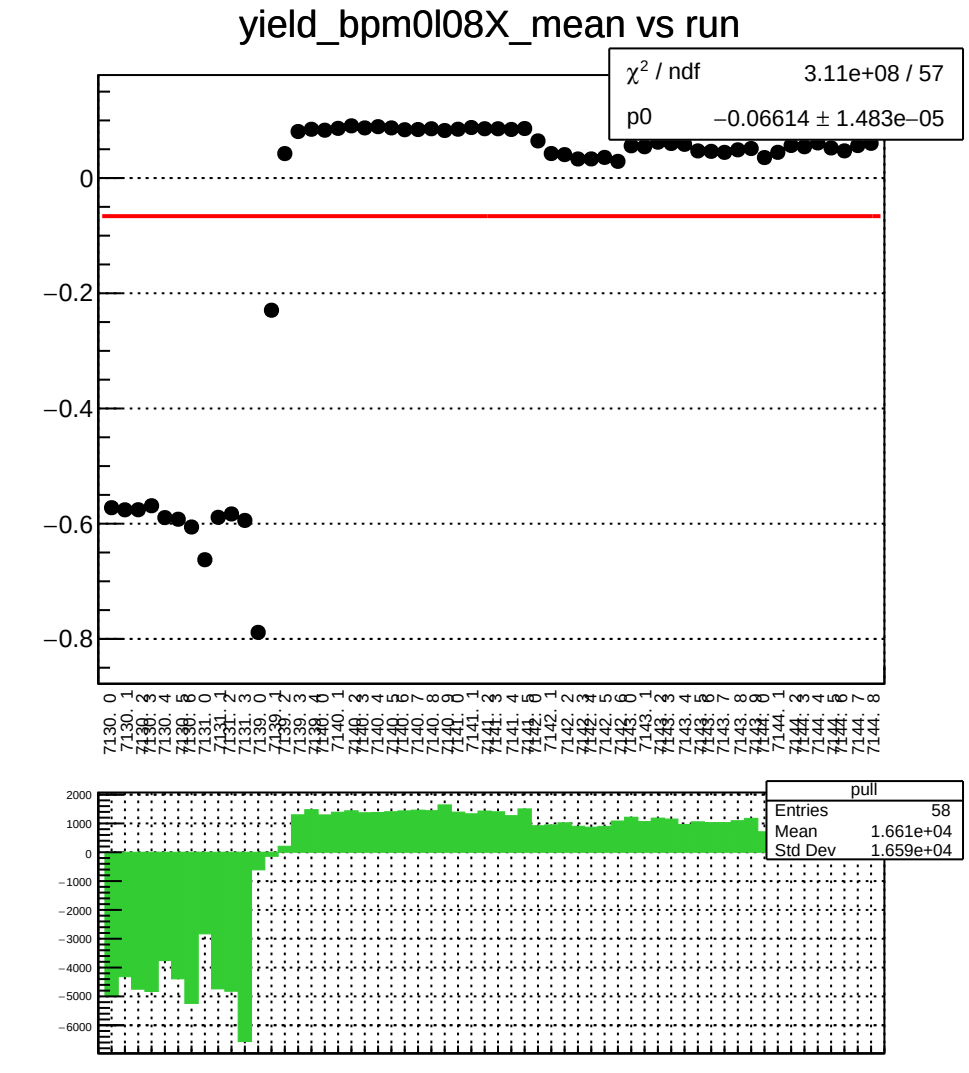

pull1D
Entries 58
Mean 0
Std Dev 0

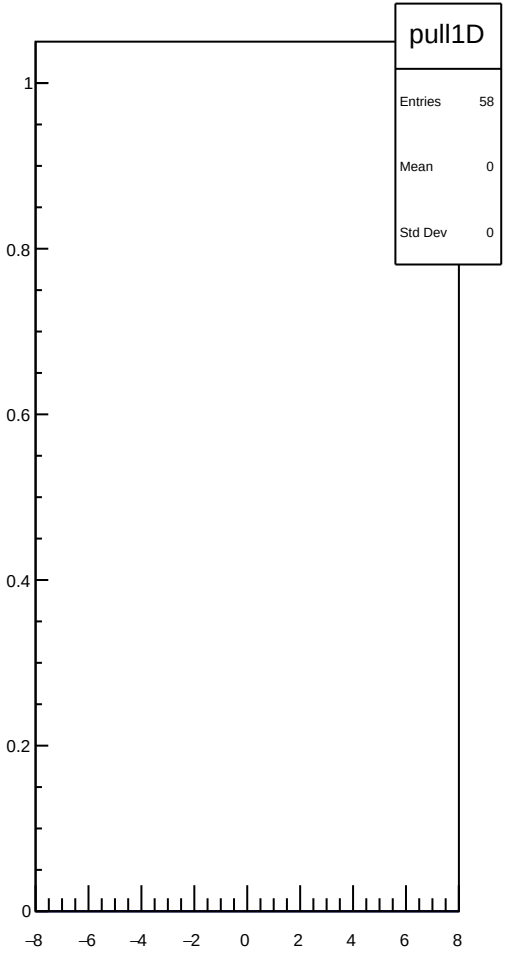

yield_bpm0l07X_rms vs run
χ^2 / ndf 5.031e+04 / 57
p0 0.01195 ± 1.162e−05
0.1
0.08
0.06
0.04
0.02

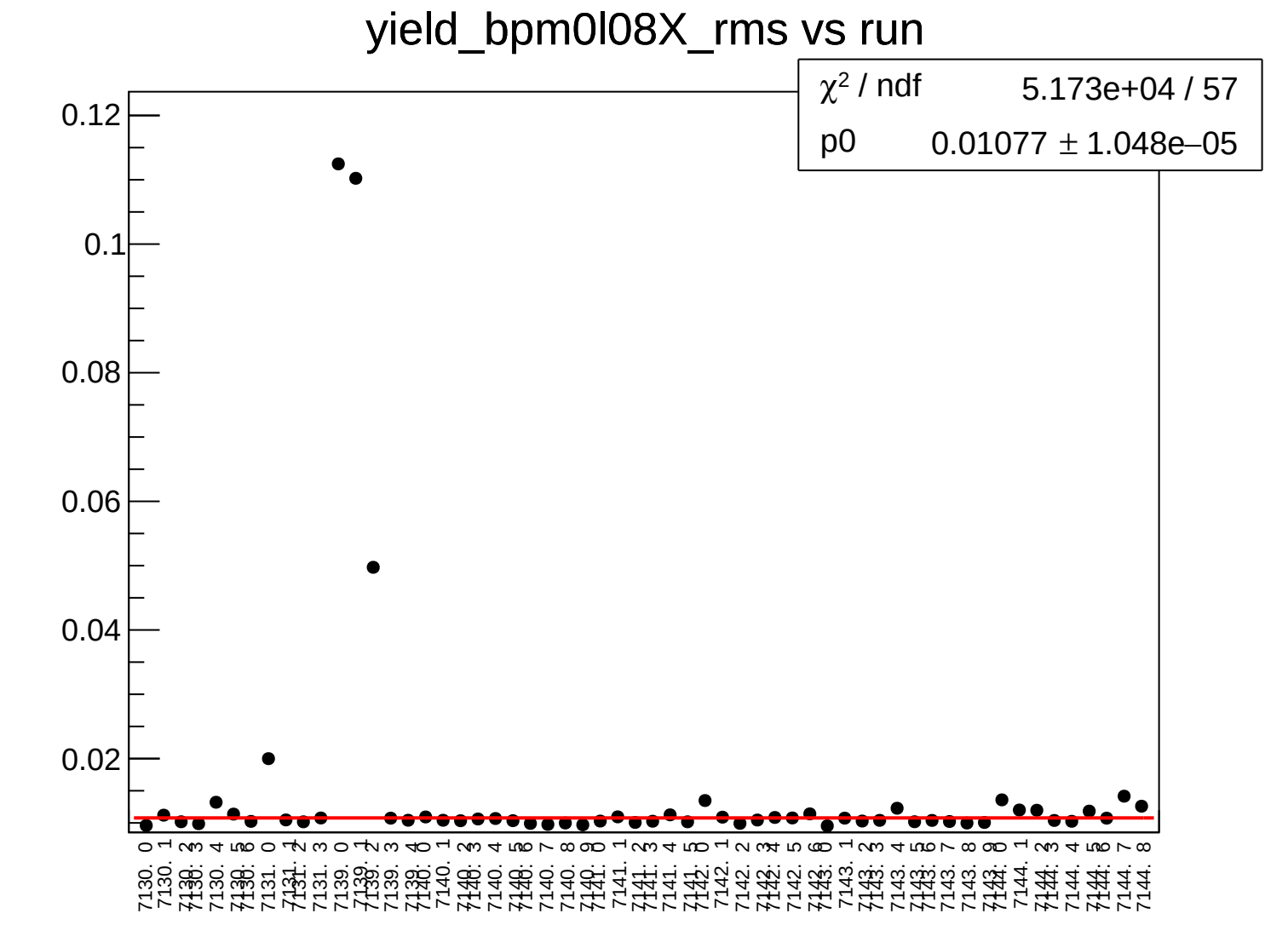

yield_bpm0l07Y_mean vs run
χ² / ndf 8.499e+06 / 57
p0 0.2315 ± 2.843e−06
0.24
0.235
0.23
0.225
0.22
0.215
0.21
pull
Entries 58
Mean −298.8
Std Dev 321.7
200
0
−200
−400
−600
−800
−1000

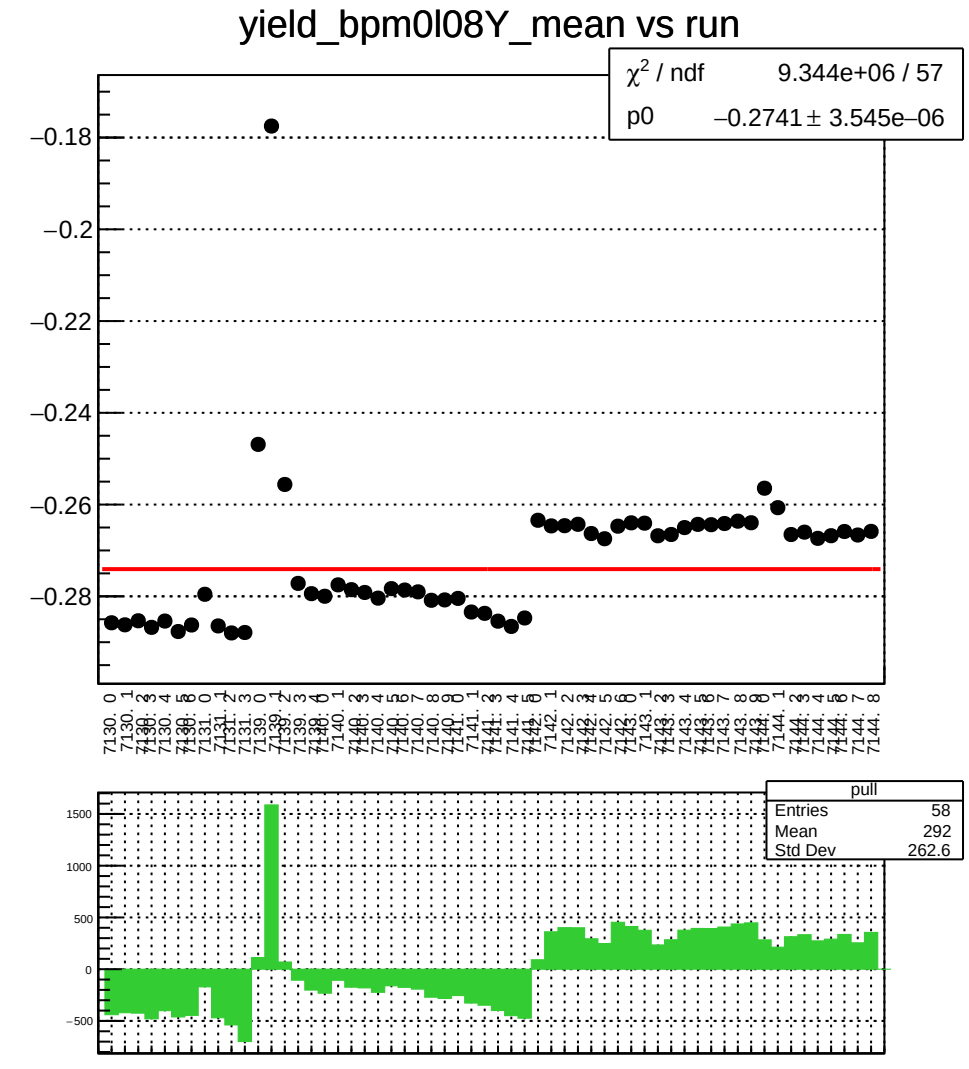

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

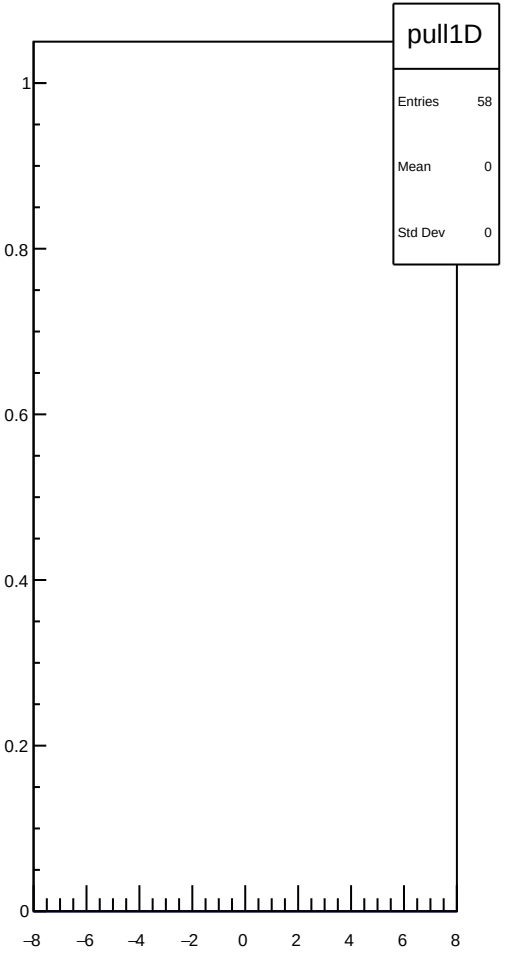

yield_bpm0l07Y_rms vs run
χ² / ndf 2.065e+04 / 57
p0 0.002096 ± 2.01e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

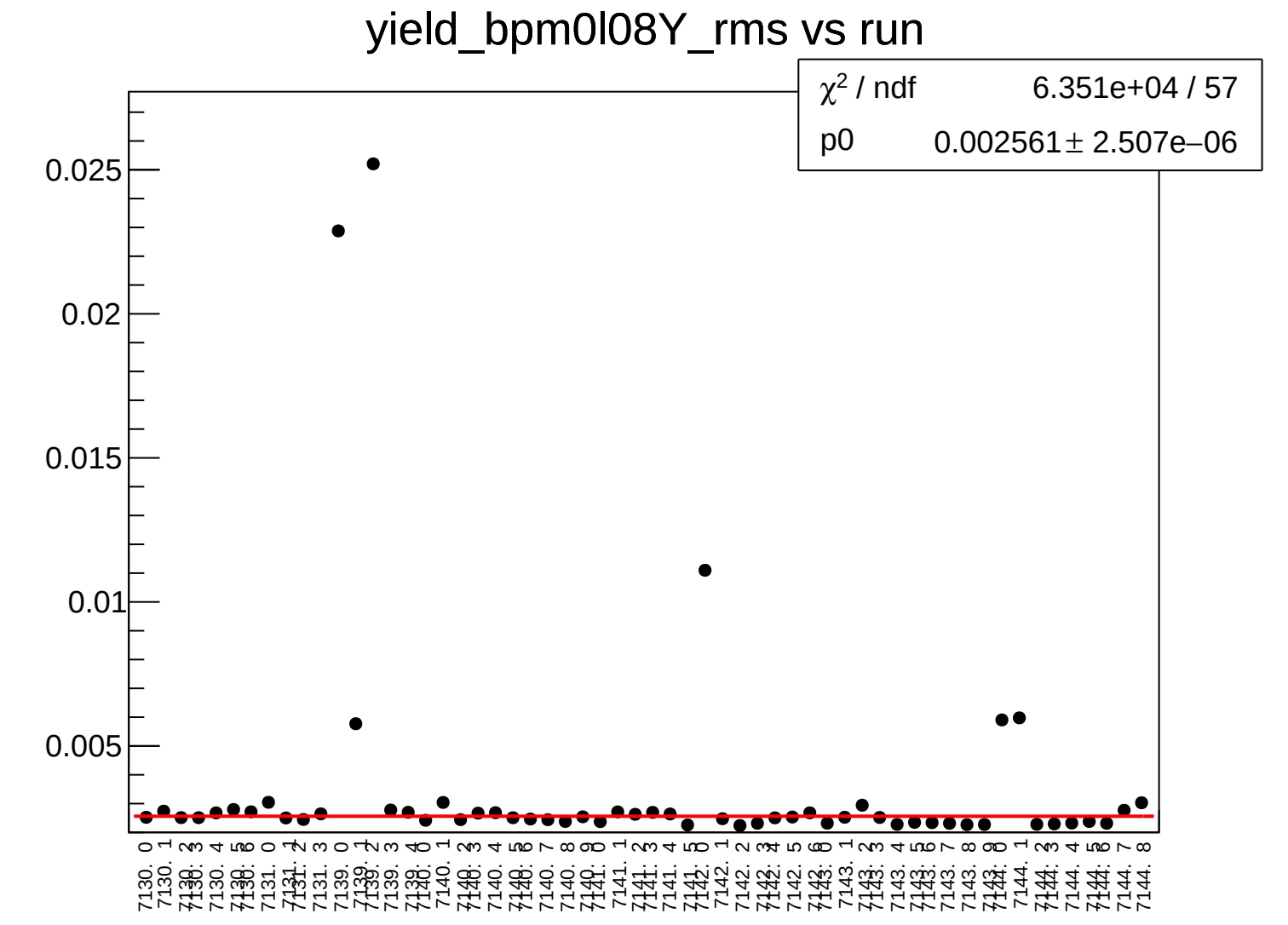

yield_bpm0l08X_mean vs run
χ² / ndf 3.11e+08 / 57
p0 −0.06614 ± 1.483e−05
0
−0.2
−0.4
−0.6
−0.8
pull
Entries 58
Mean 1.661e+04
Std Dev 1.659e+04
2000
1000
0
−1000
−2000
−3000
−4000
−5000
−6000

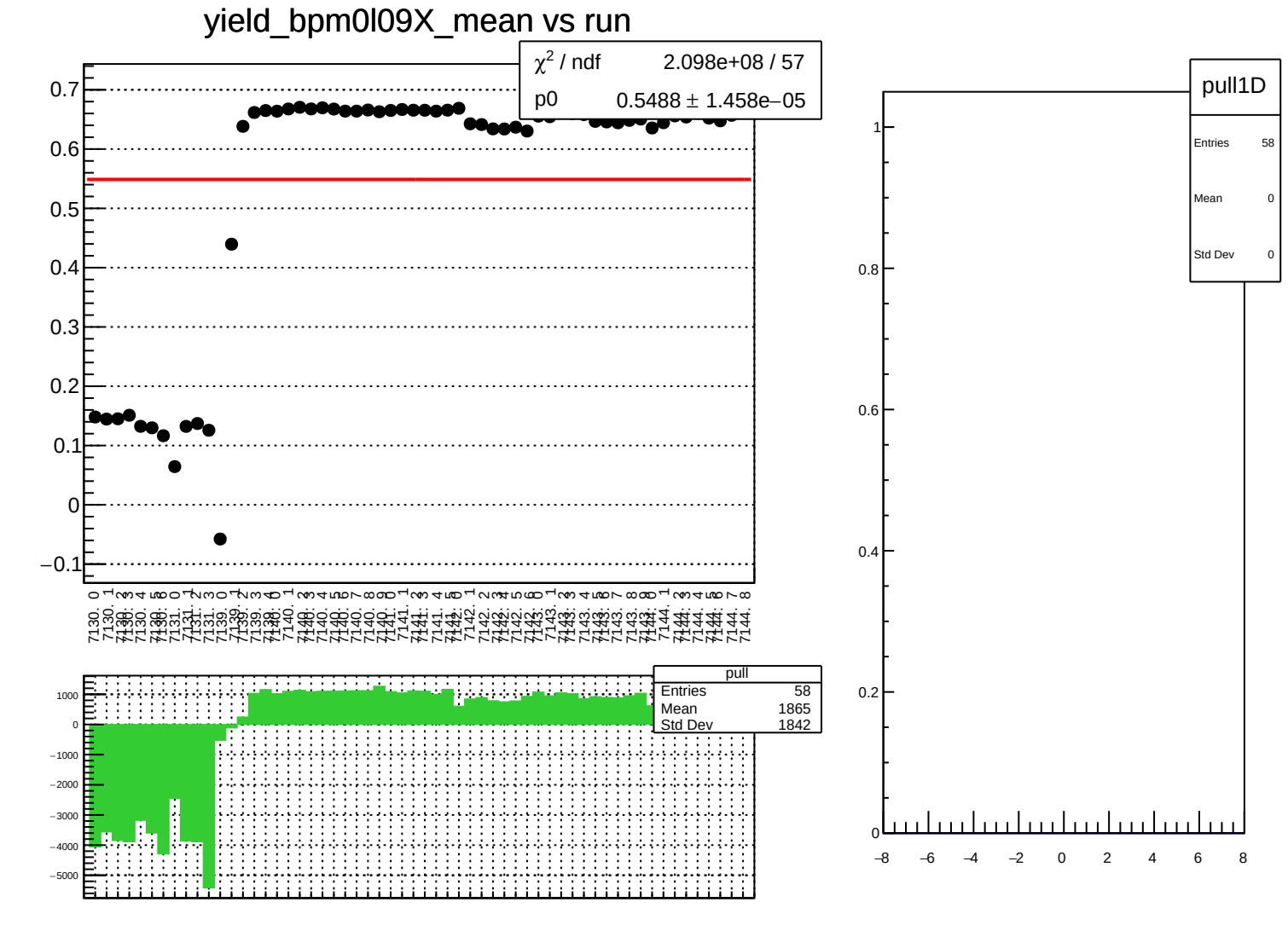

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

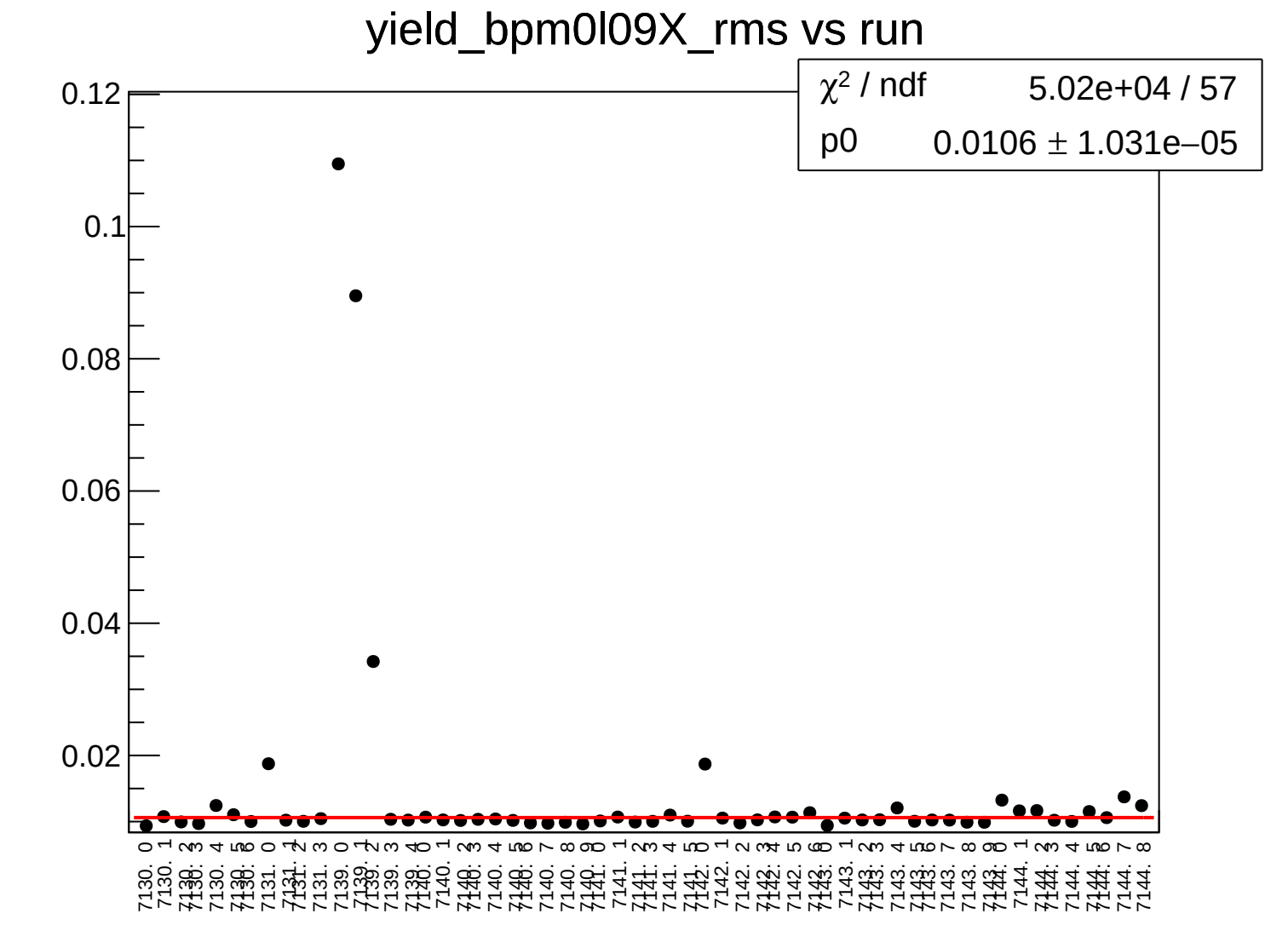

yield_bpm0l08X_rms vs run
χ² / ndf 5.173e+04 / 57
p0 0.01077 ± 1.048e–05
0.12
0.1
0.08
0.06
0.04
0.02

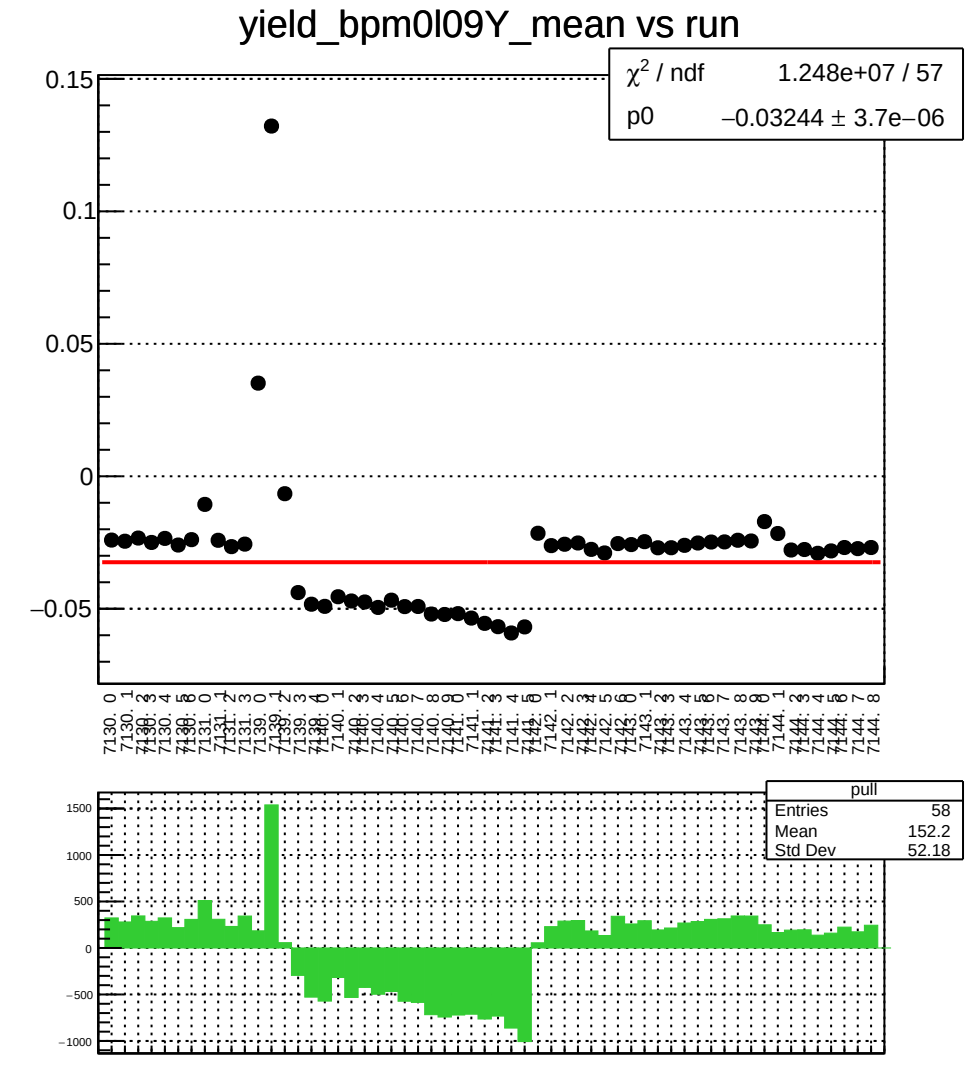

yield_bpm0l08Y_mean vs run
χ² / ndf 9.344e+06 / 57
p0 −0.2741 ± 3.545e−06
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 58
Mean 292
Std Dev 262.6
1500
1000
500
0
−500

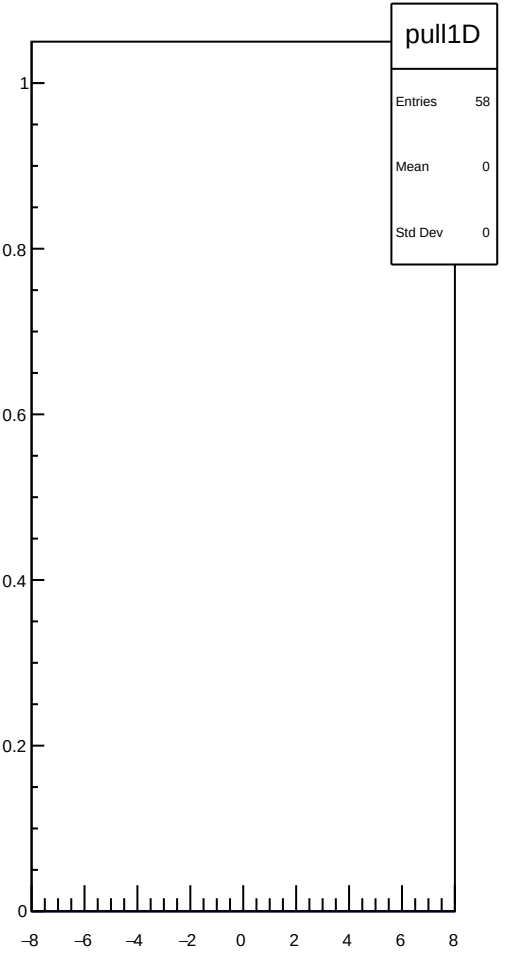

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

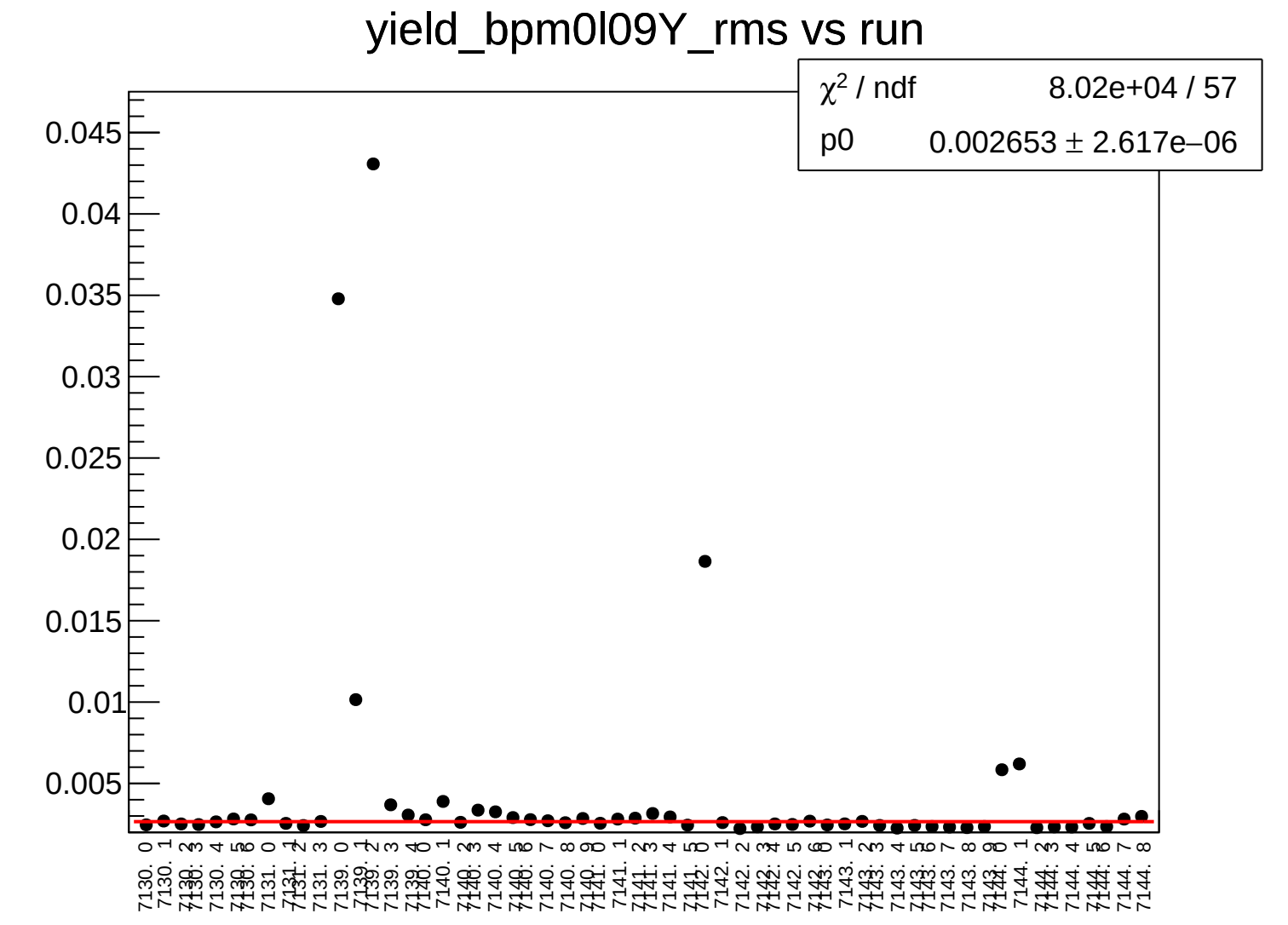

yield_bpm0l08Y_rms vs run
χ² / ndf 6.351e+04 / 57
p0 0.002561 ± 2.507e−06
0.025
0.02
0.015
0.01
0.005

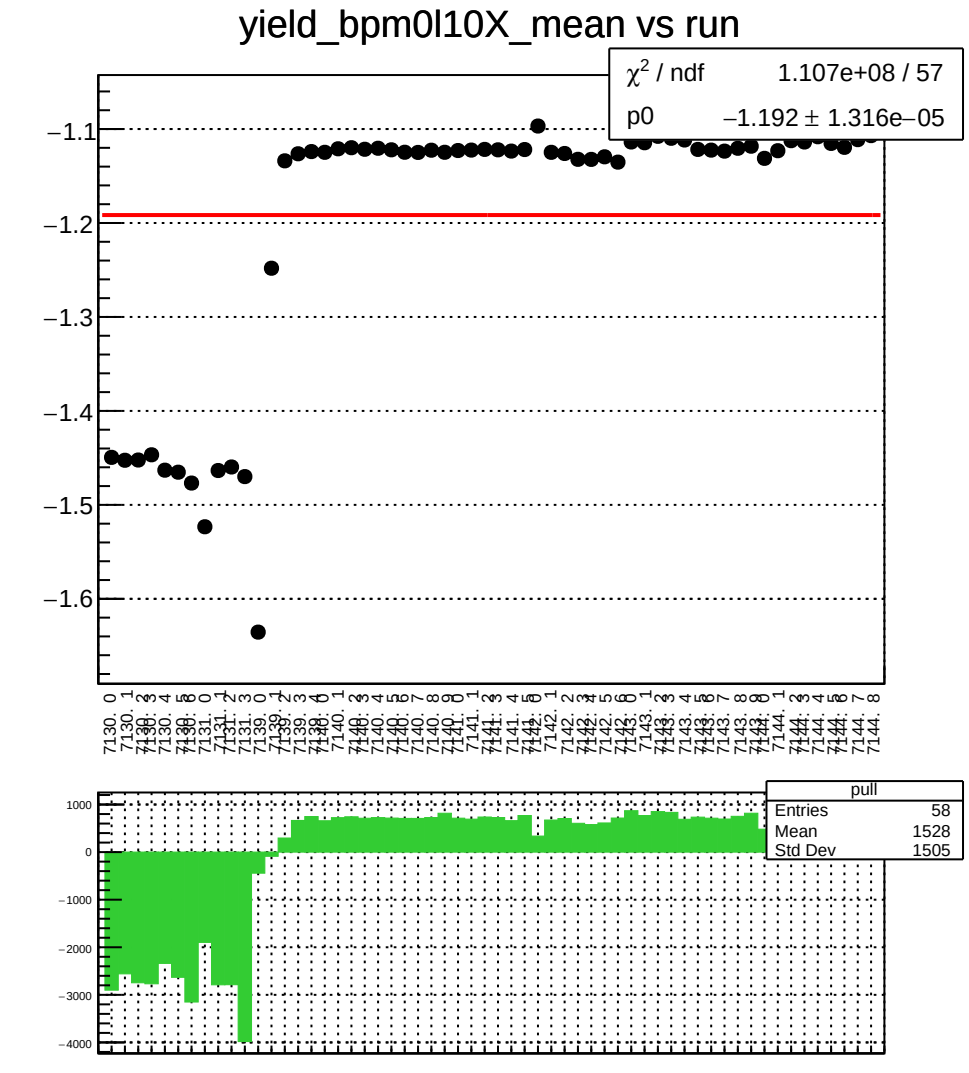

yield_bpm0l09X_mean vs run
χ² / ndf 2.098e+08 / 57
p0 0.5488 ± 1.458e−05
pull
Entries 58
Mean 1865
Std Dev 1842
pull1D
Entries 58
Mean 0
Std Dev 0

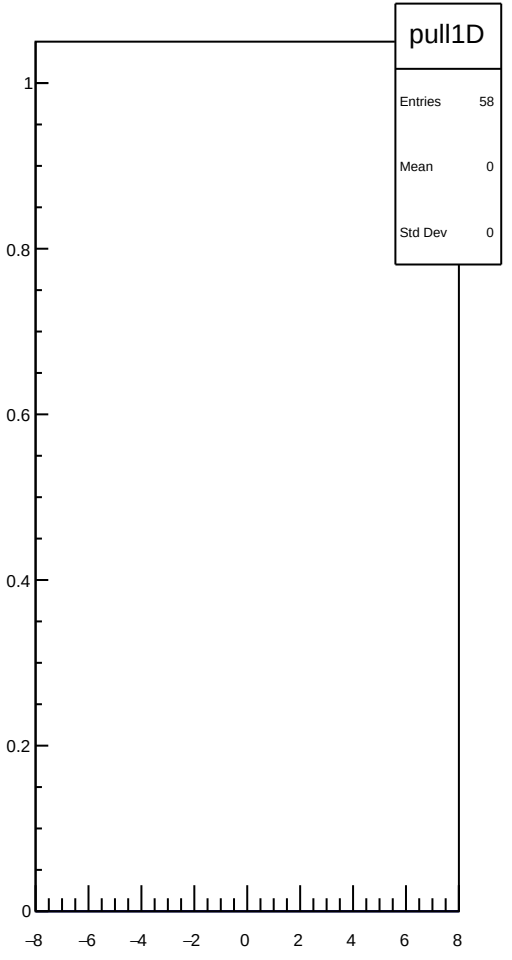

yield_bpm0l09X_rms vs run
χ² / ndf 5.02e+04 / 57
p0 0.0106 ± 1.031e−05
0.12
0.1
0.08
0.06
0.04
0.02

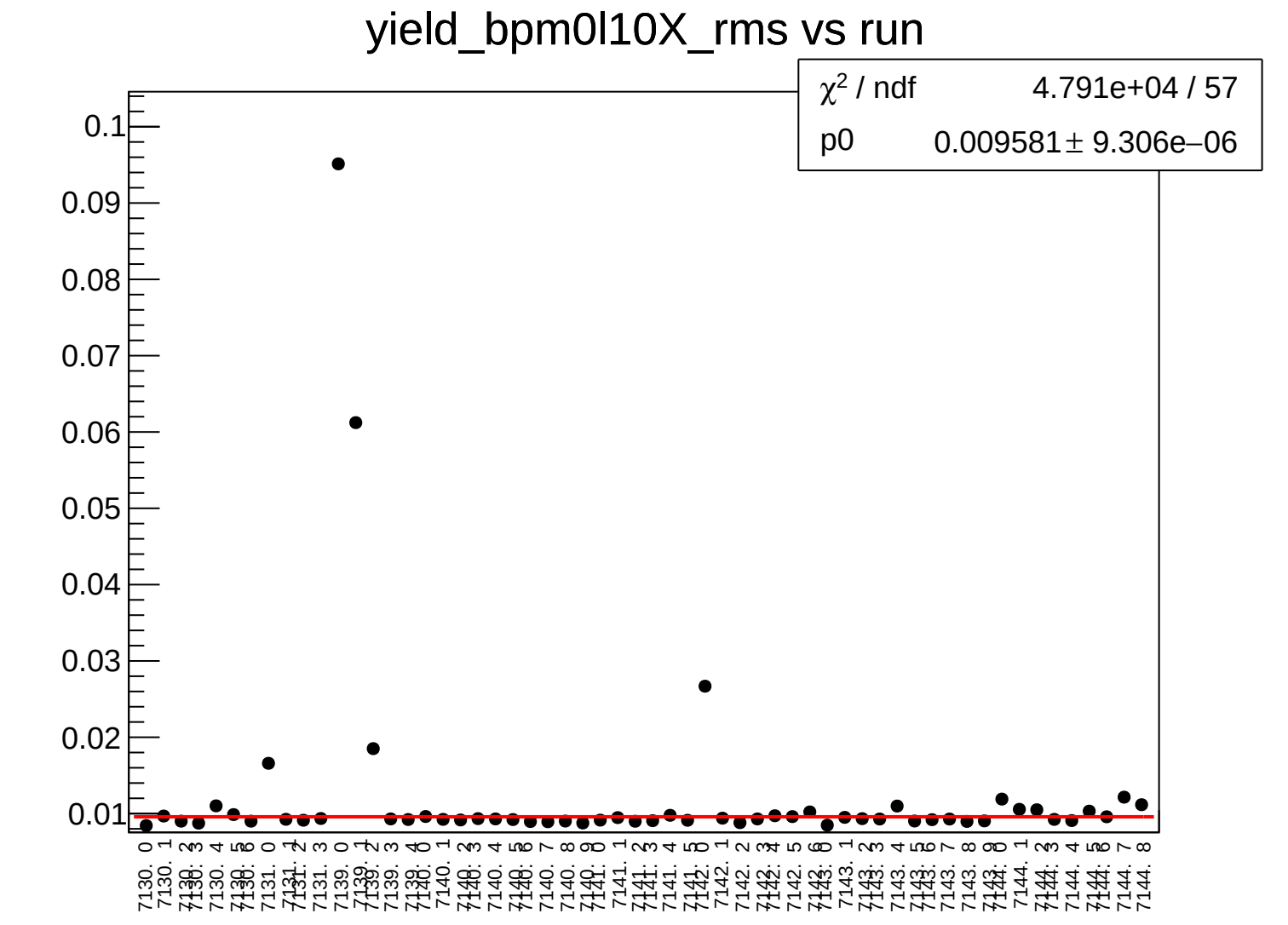

yield_bpm0l09Y_mean vs run
χ² / ndf 1.248e+07 / 57
p0 −0.03244 ± 3.7e−06
0.15
0.1
0.05
0
−0.05
pull
Entries 58
Mean 152.2
Std Dev 52.18
1500
1000
500
0
−500
−1000

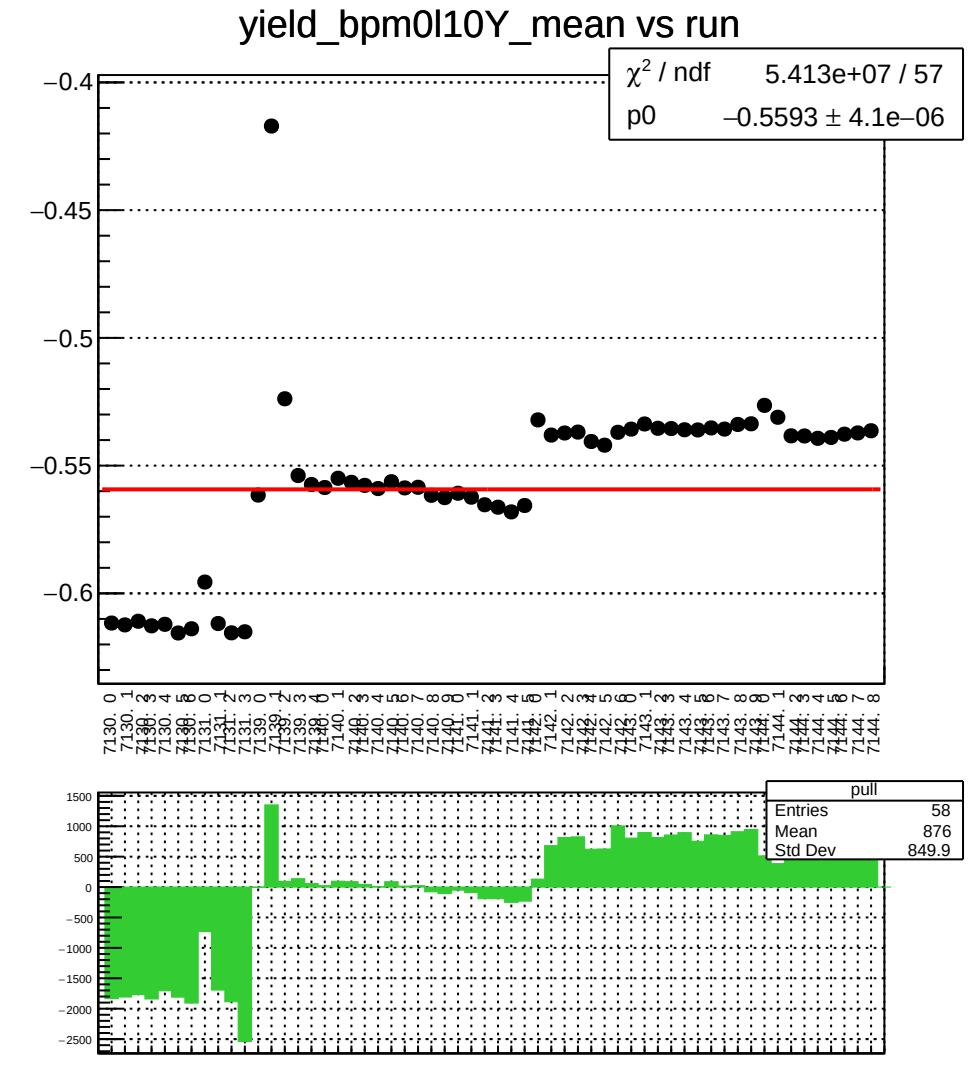

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

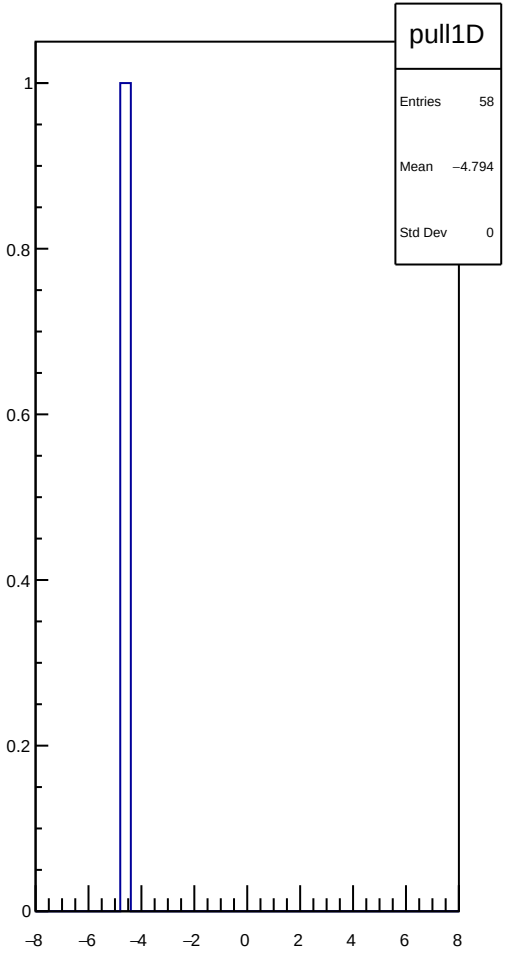

yield_bpm0l09Y_rms vs run
χ² / ndf 8.02e+04 / 57
p0 0.002653 ± 2.617e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

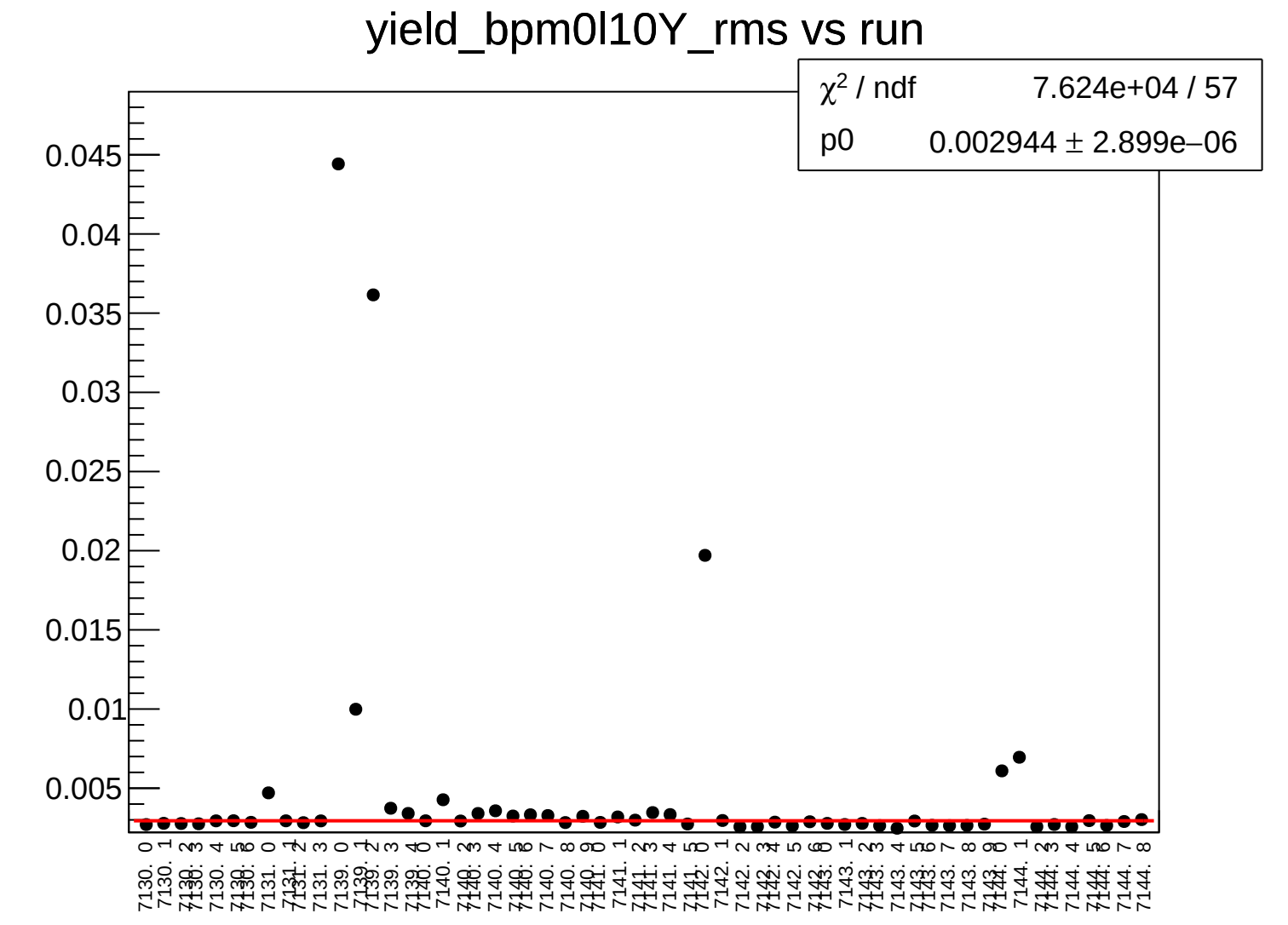

yield_bpm0l10X_mean vs run
χ² / ndf 1.107e+08 / 57
p0 −1.192 ± 1.316e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
pull
Entries 58
Mean 1528
Std Dev 1505
1000
0
−1000
−2000
−3000
−4000

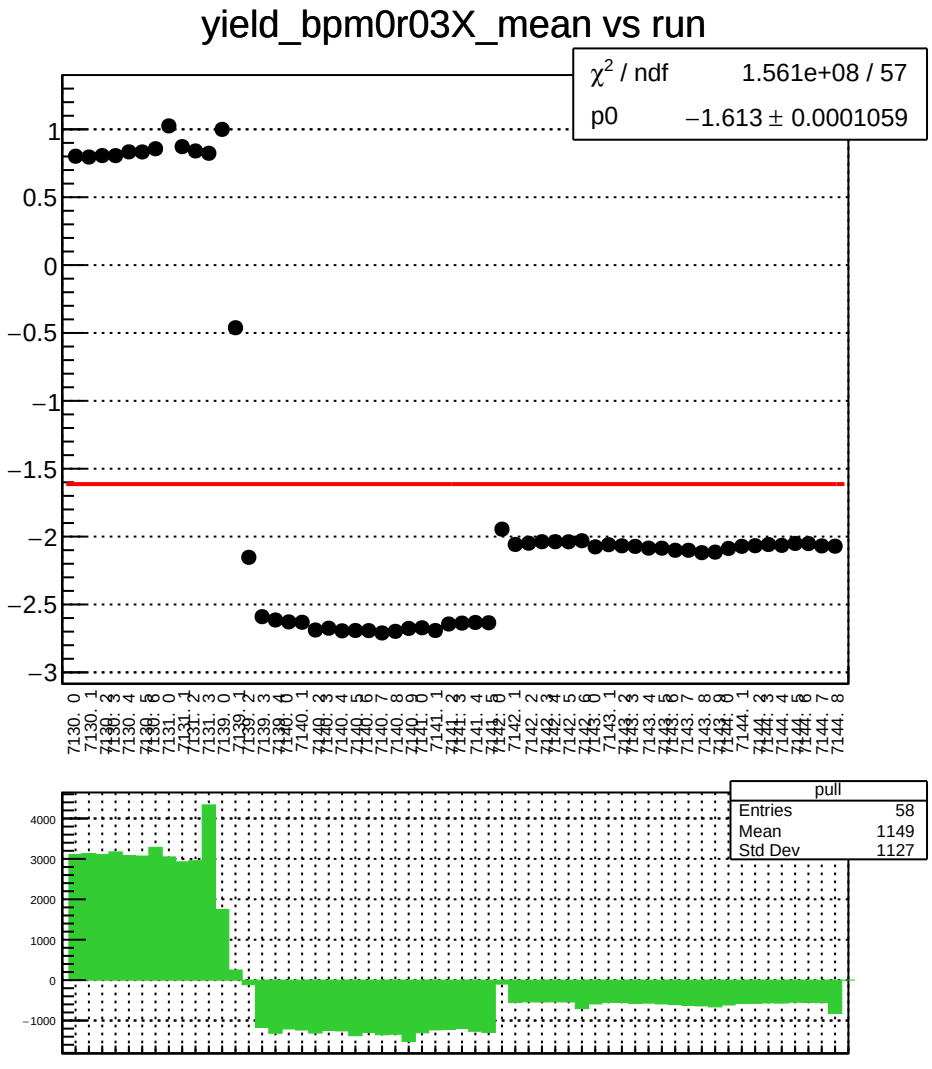

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

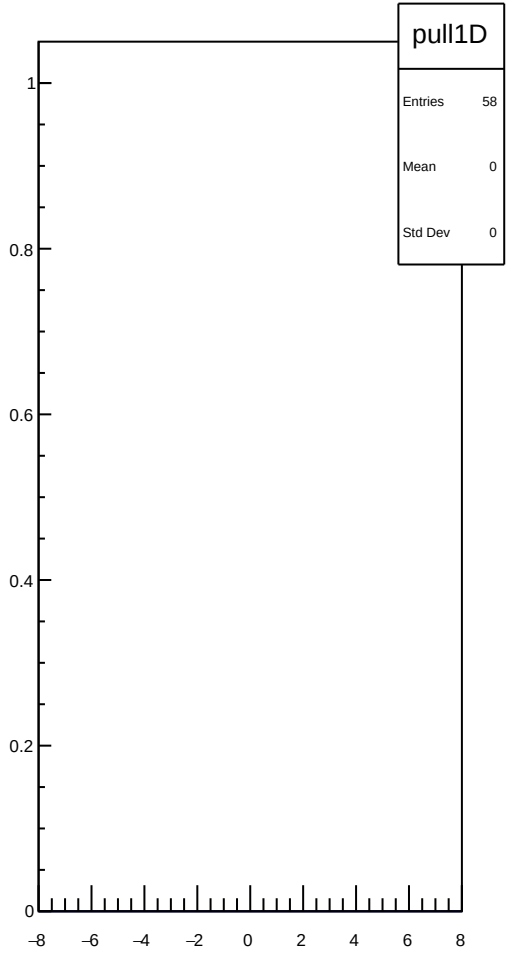

yield_bpm0l10X_rms vs run
χ^2 / ndf 4.791e+04 / 57
p0 0.009581 ± 9.306e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

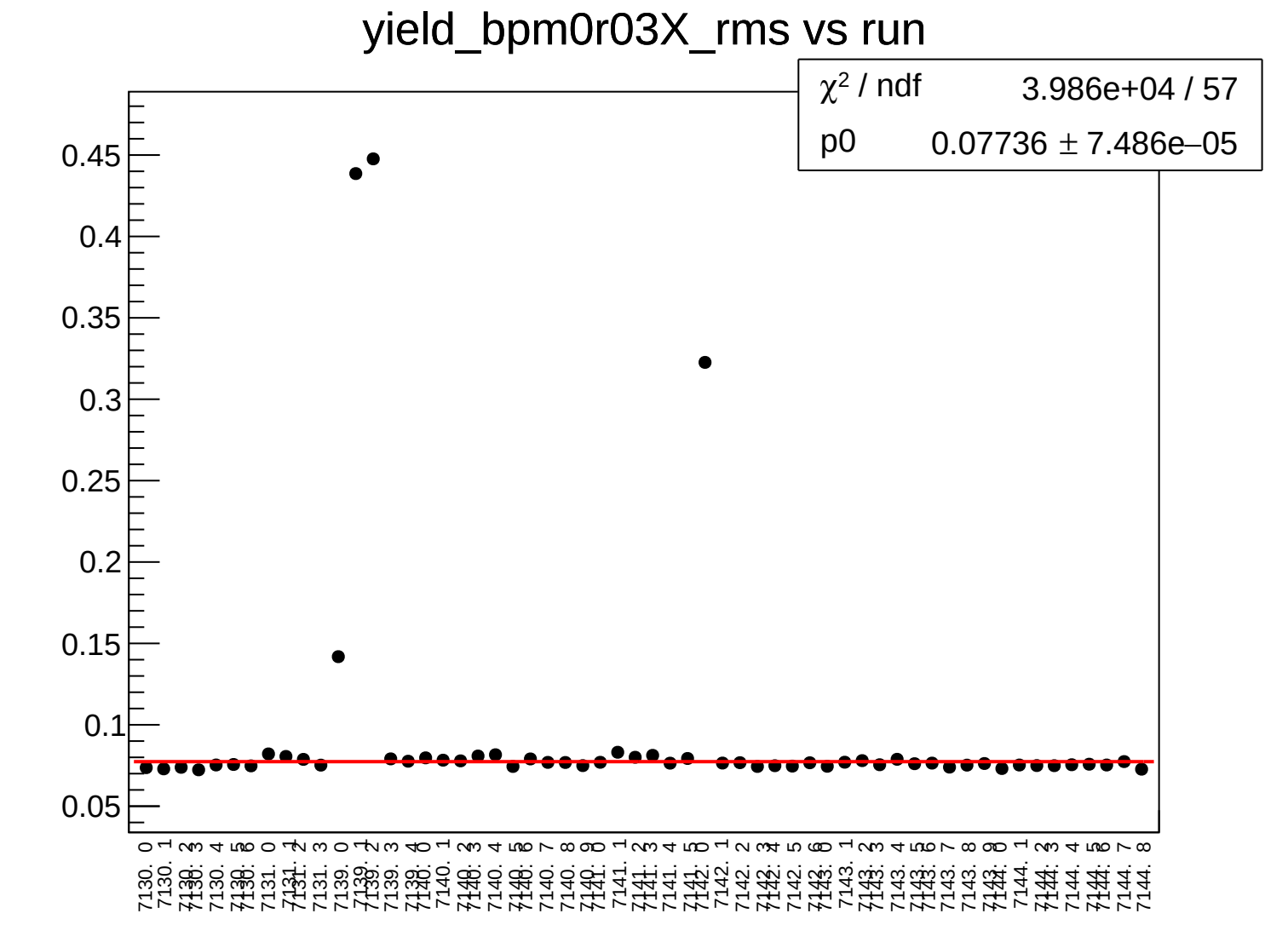

yield_bpm0l10Y_mean vs run
χ² / ndf 5.413e+07 / 57
p0 –0.5593 ± 4.1e–06
–0.4
–0.45
–0.5
–0.55
–0.6
pull
Entries 58
Mean 876
Std Dev 849.9
1500
1000
500
0
–500
–1000
–1500
–2000
–2500

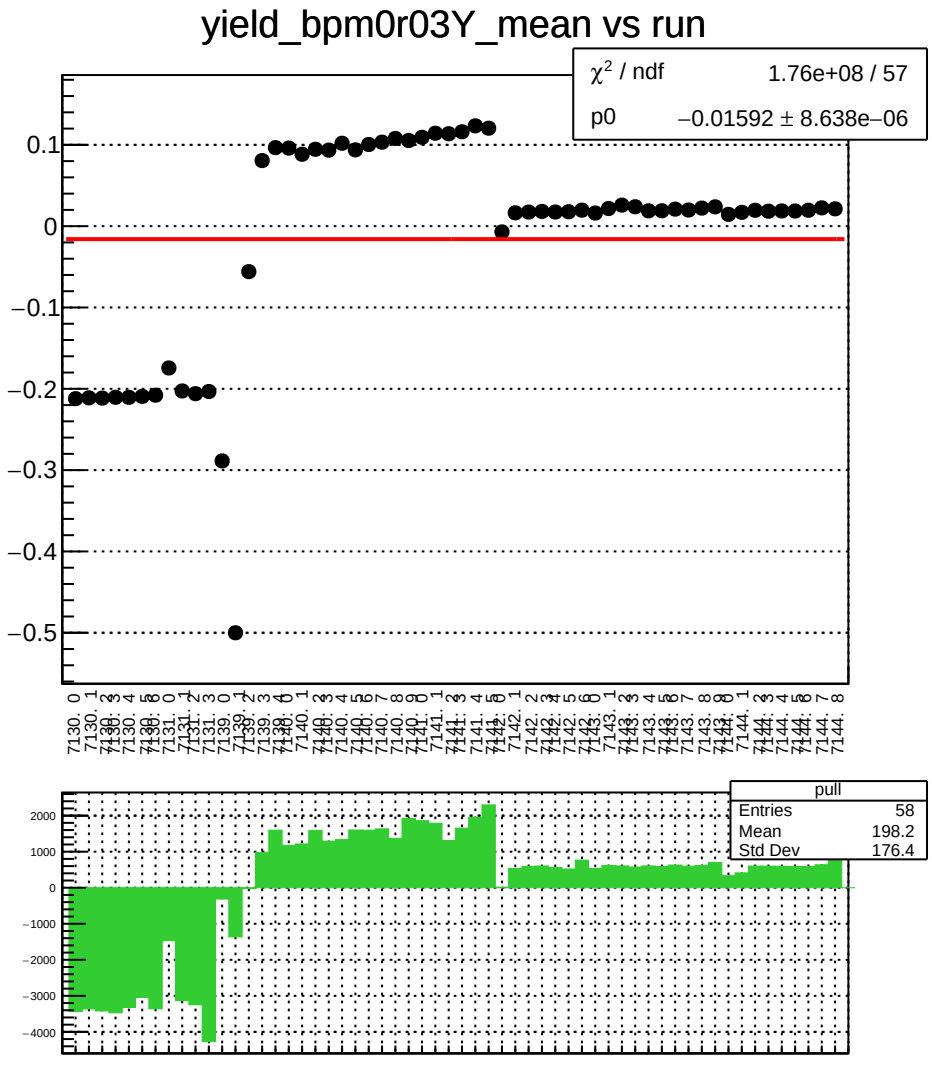

pull1D
Entries 58
Mean –4.794
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

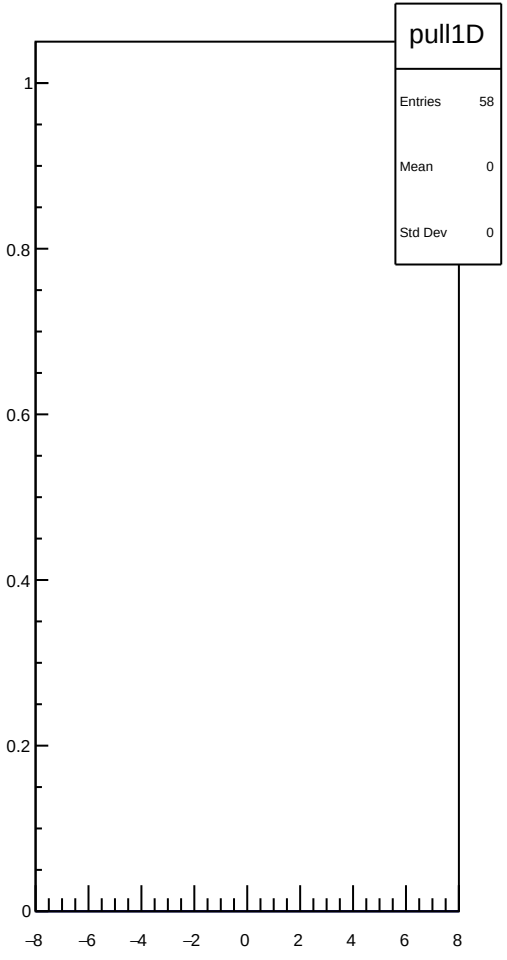

yield_bpm0l10Y_rms vs run
χ² / ndf 7.624e+04 / 57
p0 0.002944 ± 2.899e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

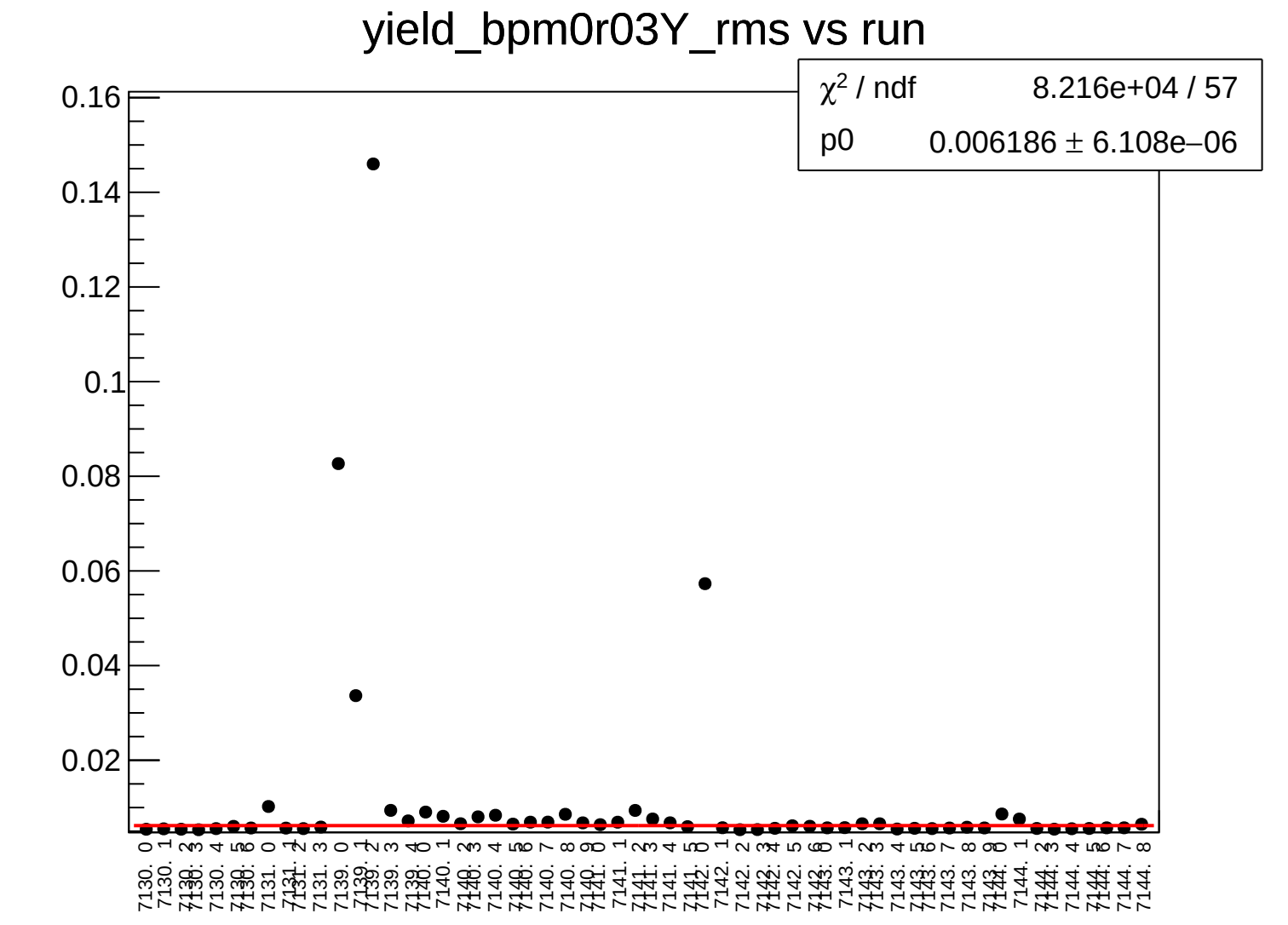

yield_bpm0r03X_mean vs run
χ² / ndf 1.561e+08 / 57
p0 −1.613 ± 0.0001059
pull
Entries 58
Mean 1149
Std Dev 1127

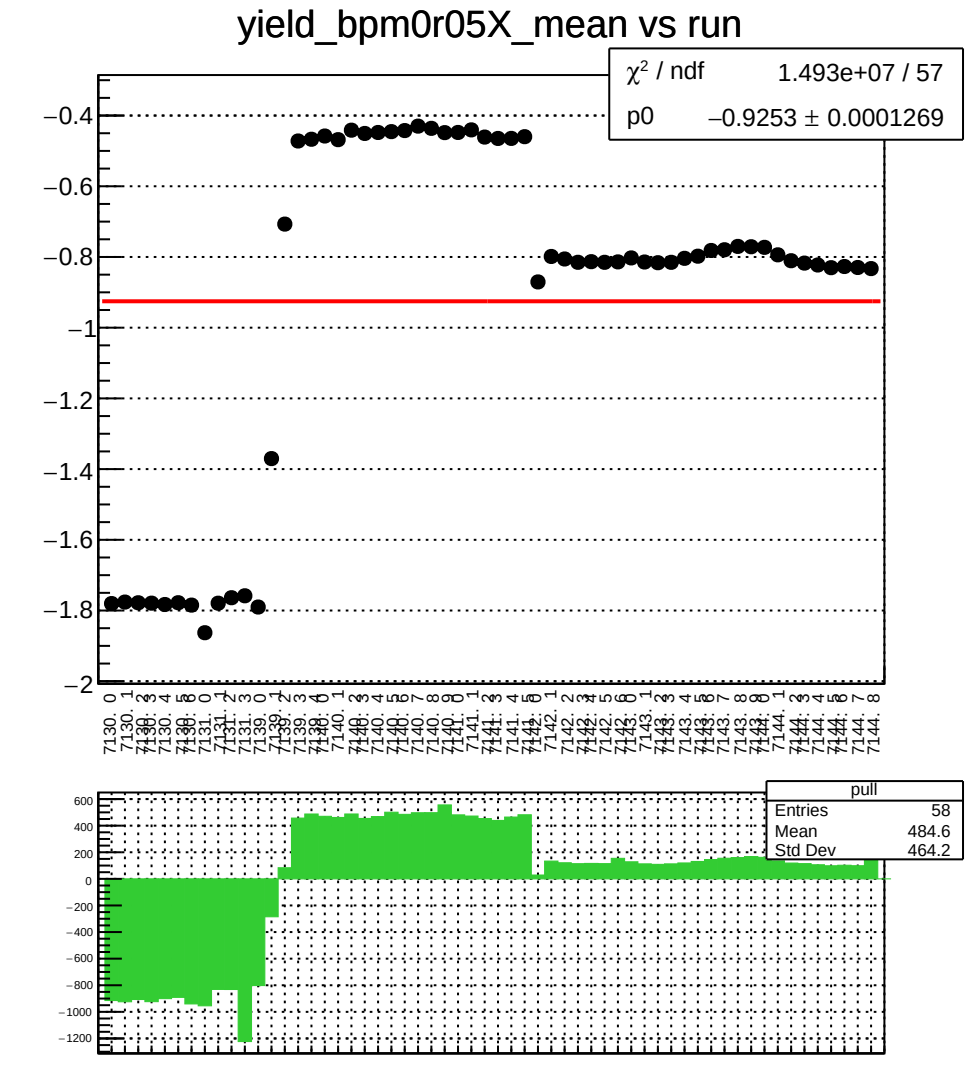

pull1D
Entries 58
Mean 0
Std Dev 0

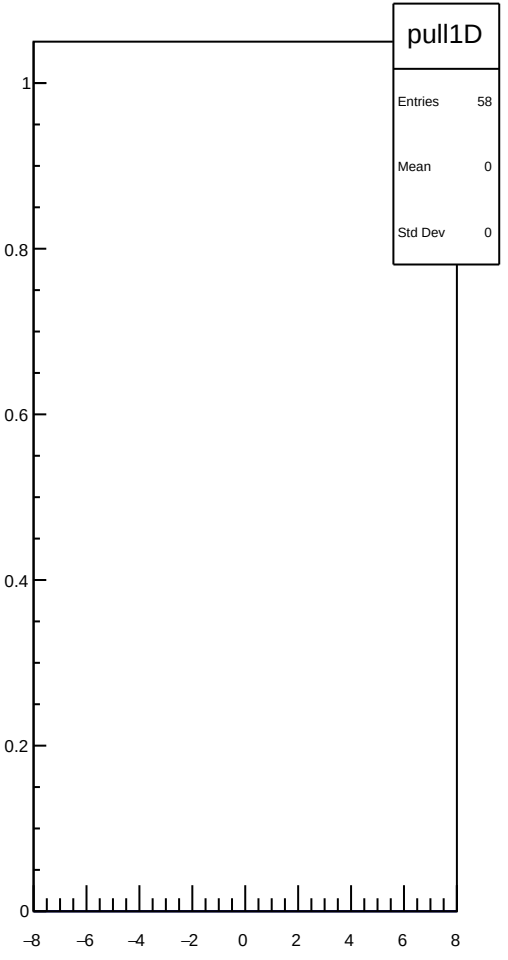

yield_bpm0r03X_rms vs run
χ² / ndf 3.986e+04 / 57
p0 0.07736 ± 7.486e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05
7130. 0
7130. 1
7130. 2
7130. 3
7130. 4
7130. 5
7130. 6
7131. 0
7131. 1
7131. 2
7131. 3
7139. 0
7139. 1
7139. 2
7139. 3
7139. 4
7140. 0
7140. 1
7140. 2
7140. 3
7140. 4
7140. 5
7140. 6
7140. 7
7140. 8
7140. 9
7141. 0
7141. 1
7141. 2
7141. 3
7141. 4
7141. 5
7142. 0
7142. 1
7142. 2
7142. 3
7142. 4
7142. 5
7142. 6
7143. 0
7143. 1
7143. 2
7143. 3
7143. 4
7143. 5
7143. 6
7143. 7
7143. 8
7143. 9
7144. 0
7144. 1
7144. 2
7144. 3
7144. 4
7144. 5
7144. 6
7144. 7
7144. 8

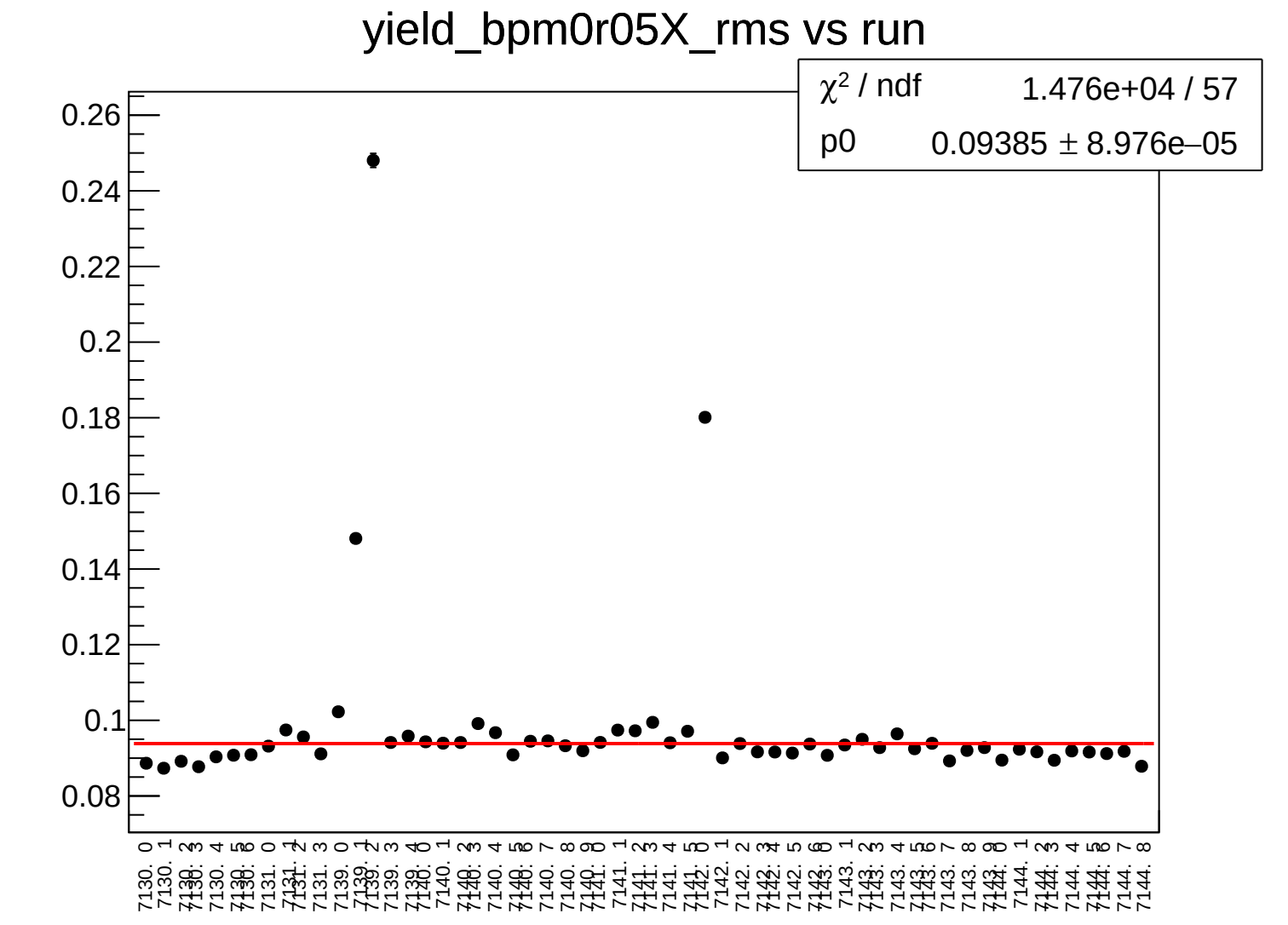

yield_bpm0r03Y_mean vs run
χ² / ndf 1.76e+08 / 57
p0 −0.01592 ± 8.638e−06
pull
Entries 58
Mean 198.2
Std Dev 176.4

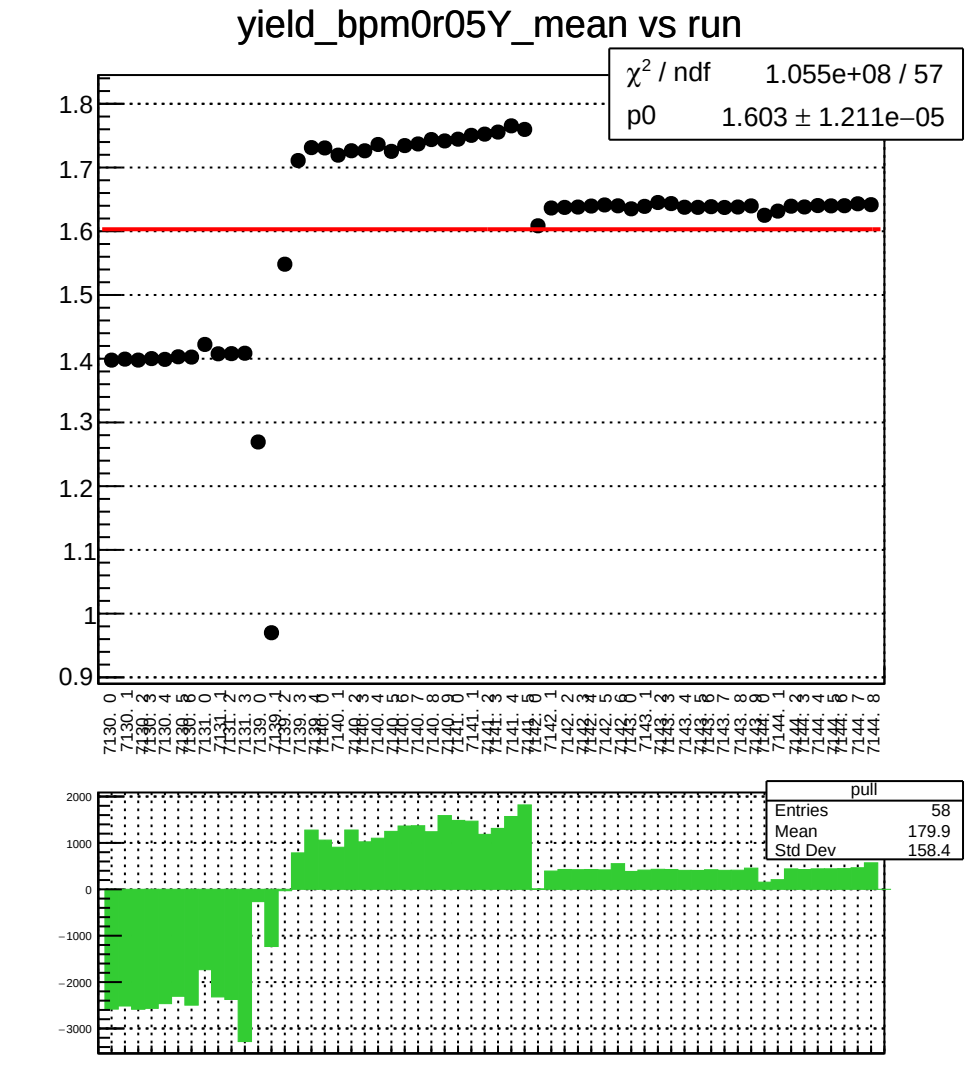

pull1D
Entries 58
Mean 0
Std Dev 0

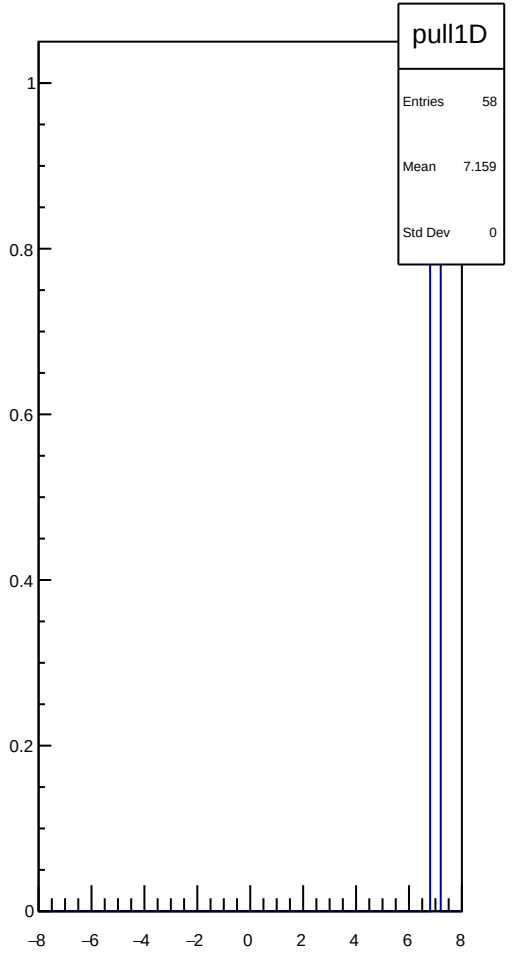

yield_bpm0r03Y_rms vs run
χ² / ndf 8.216e+04 / 57
p0 0.006186 ± 6.108e−06
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

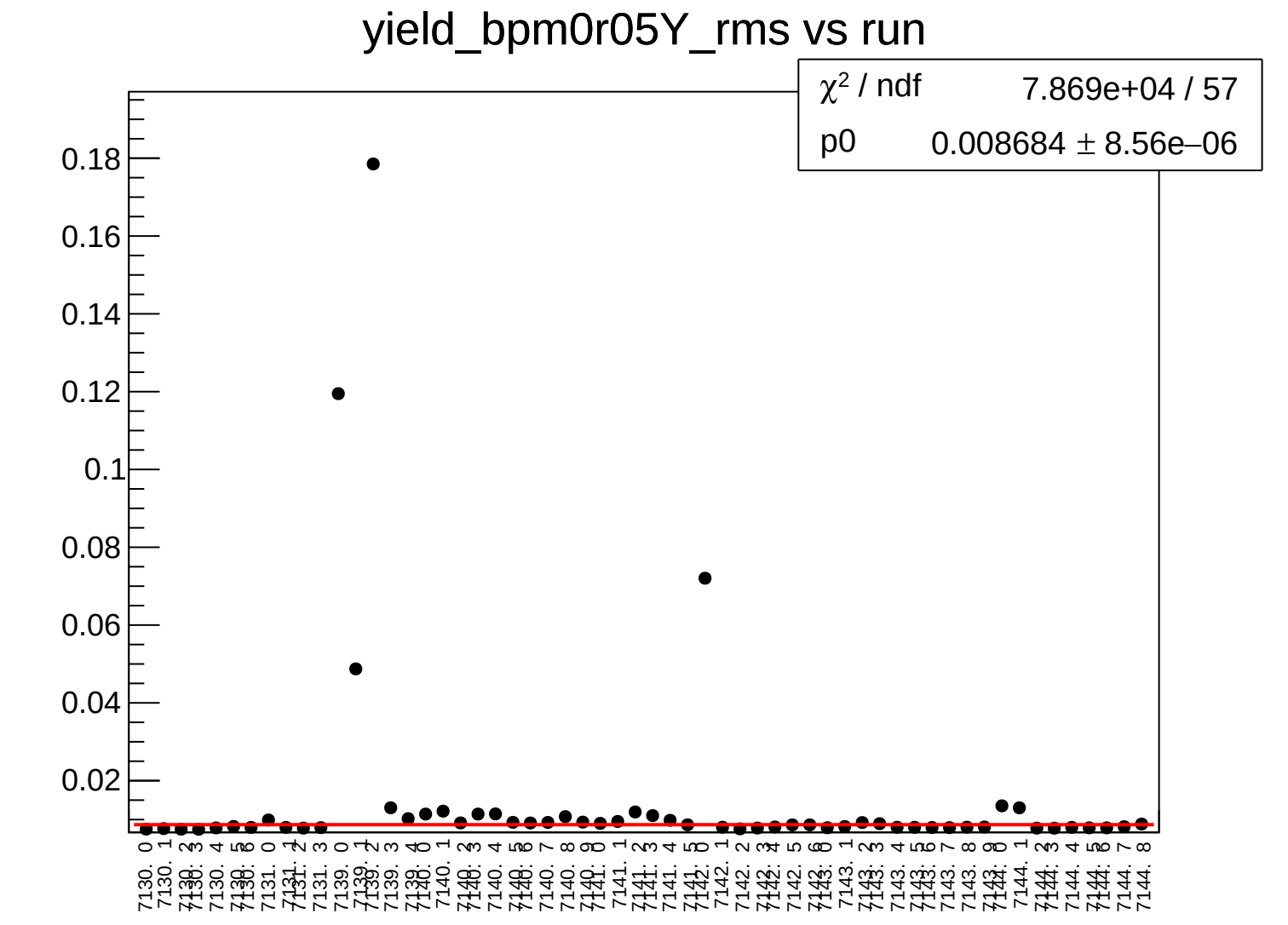

yield_bpm0r05X_mean vs run
χ² / ndf 1.493e+07 / 57
p0 −0.9253 ± 0.0001269
pull
Entries 58
Mean 484.6
Std Dev 464.2

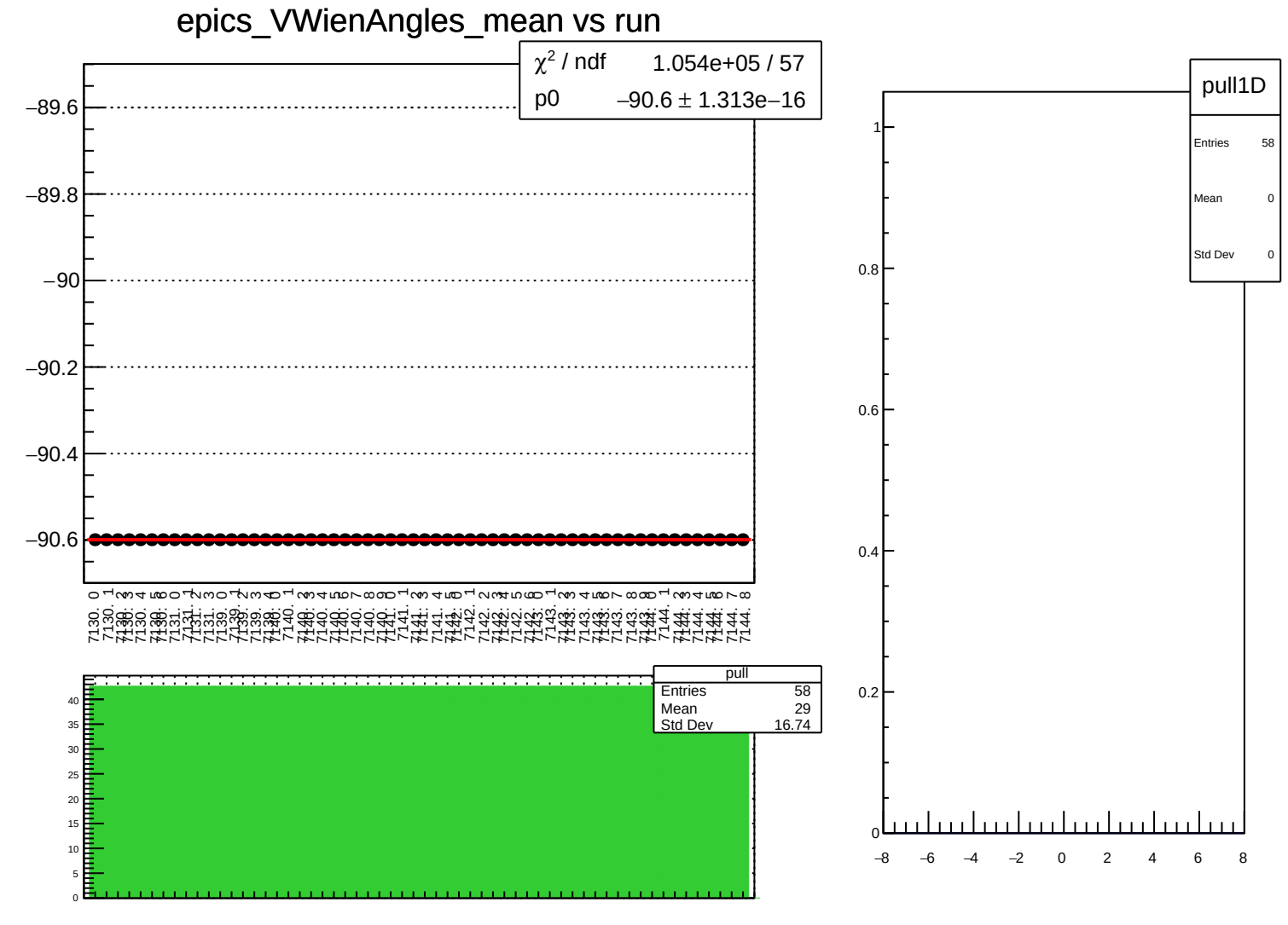

pull1D
Entries 58
Mean 0
Std Dev 0

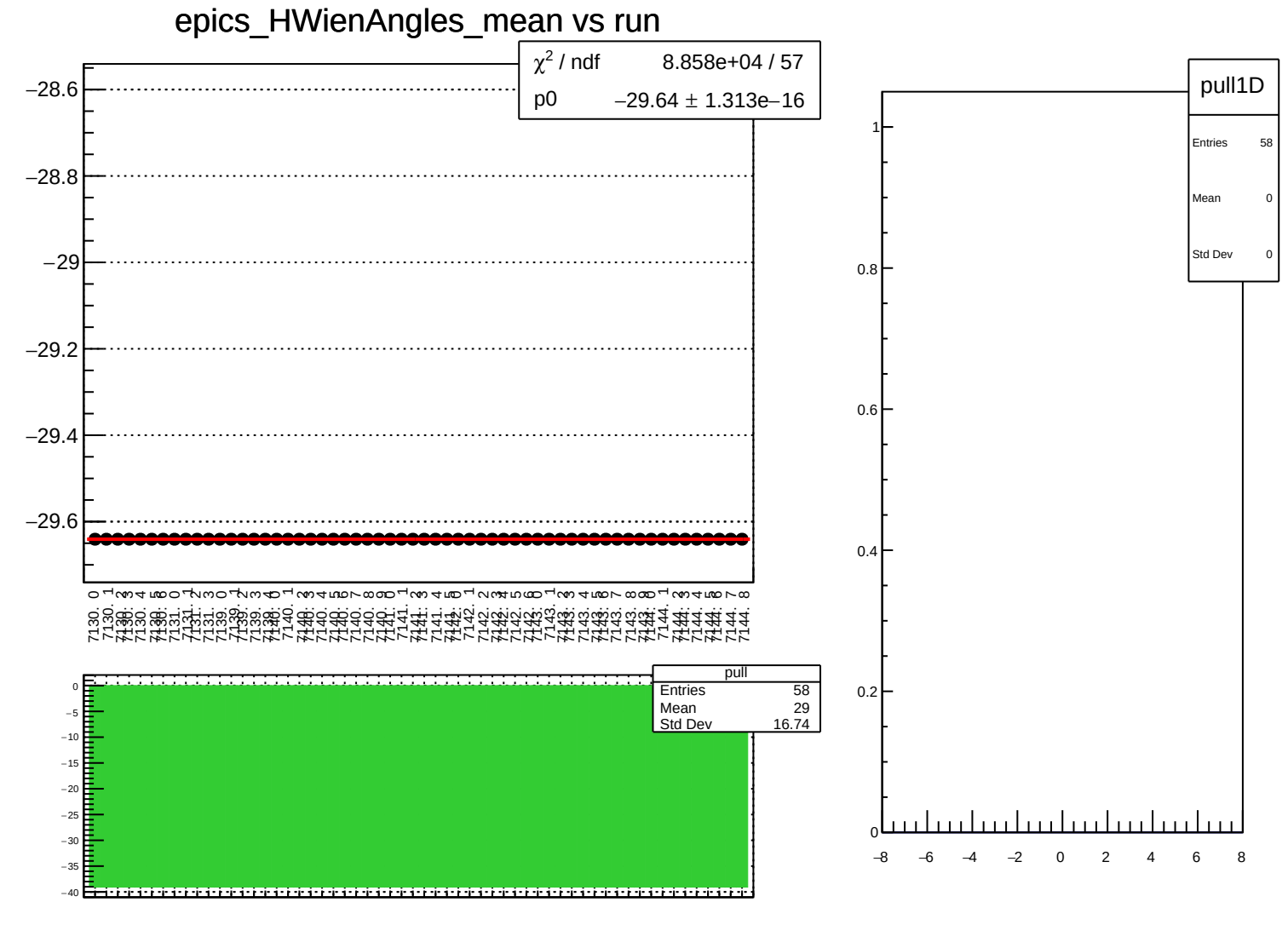

yield_bpm0r05X_rms vs run
χ² / ndf 1.476e+04 / 57
p0 0.09385 ± 8.976e–05
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

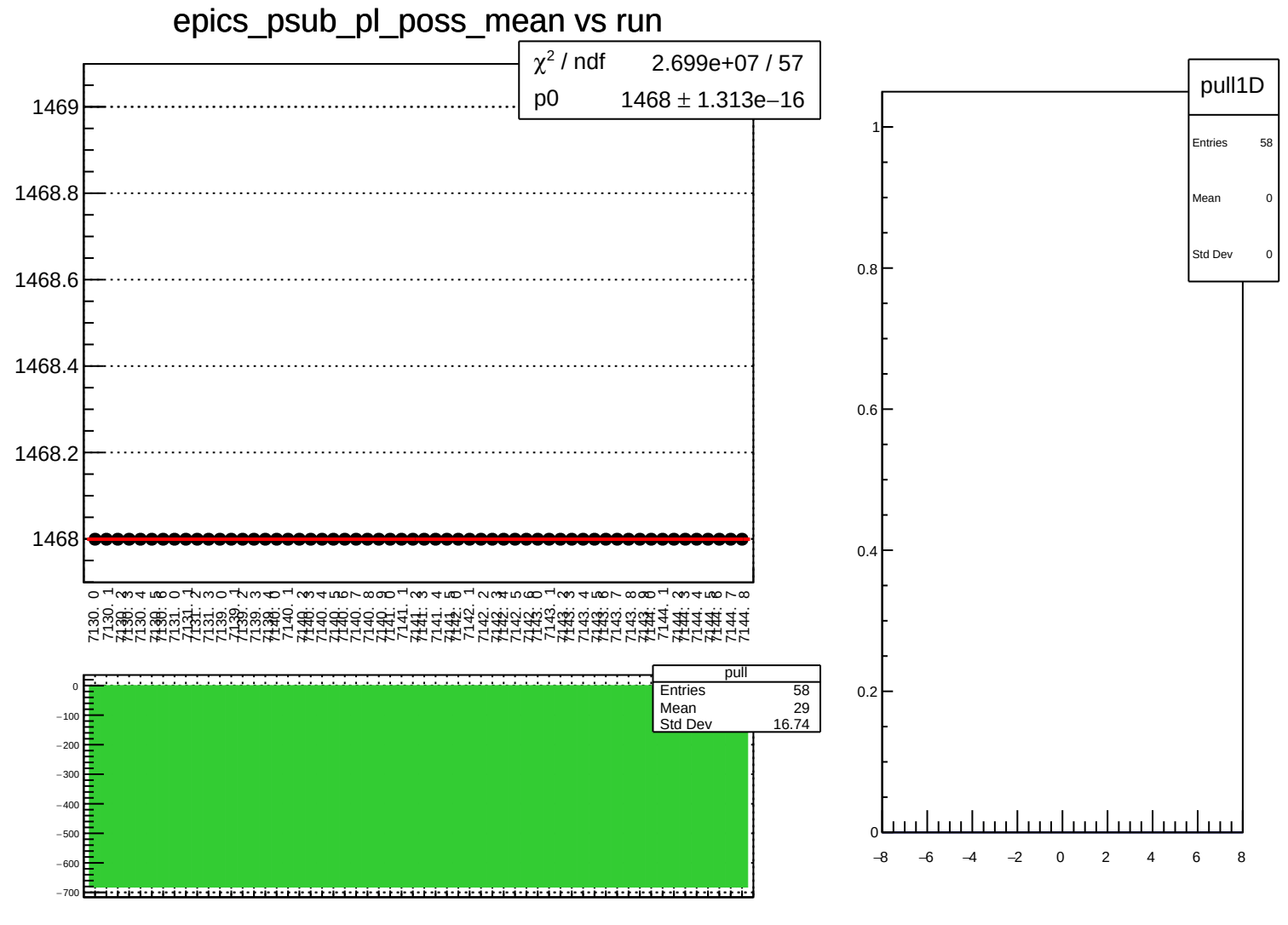

yield_bpm0r05Y_mean vs run
χ² / ndf 1.055e+08 / 57
p0 1.603 ± 1.211e−05
pull
Entries 58
Mean 179.9
Std Dev 158.4

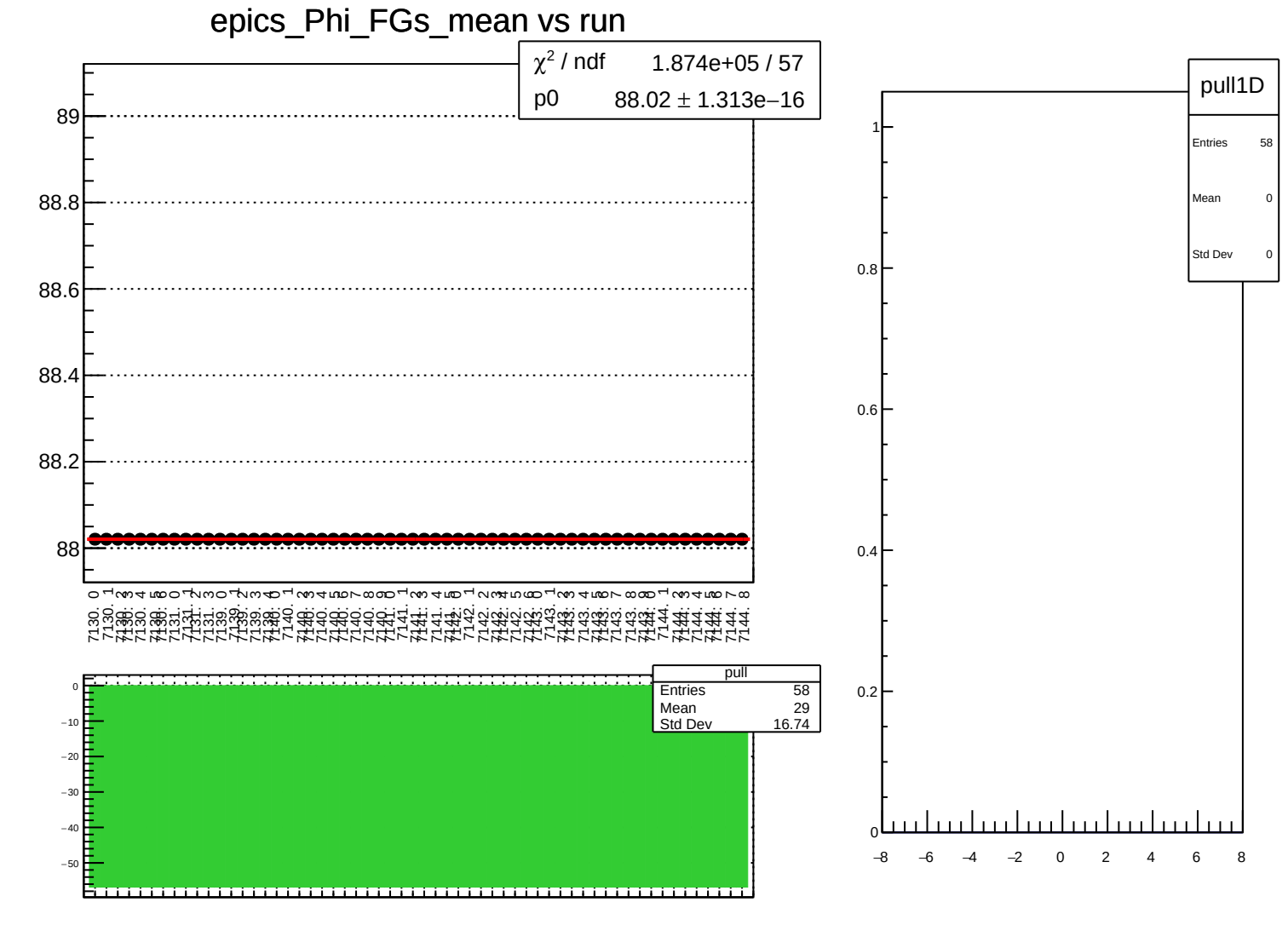

pull1D
Entries 58
Mean 7.159
Std Dev 0

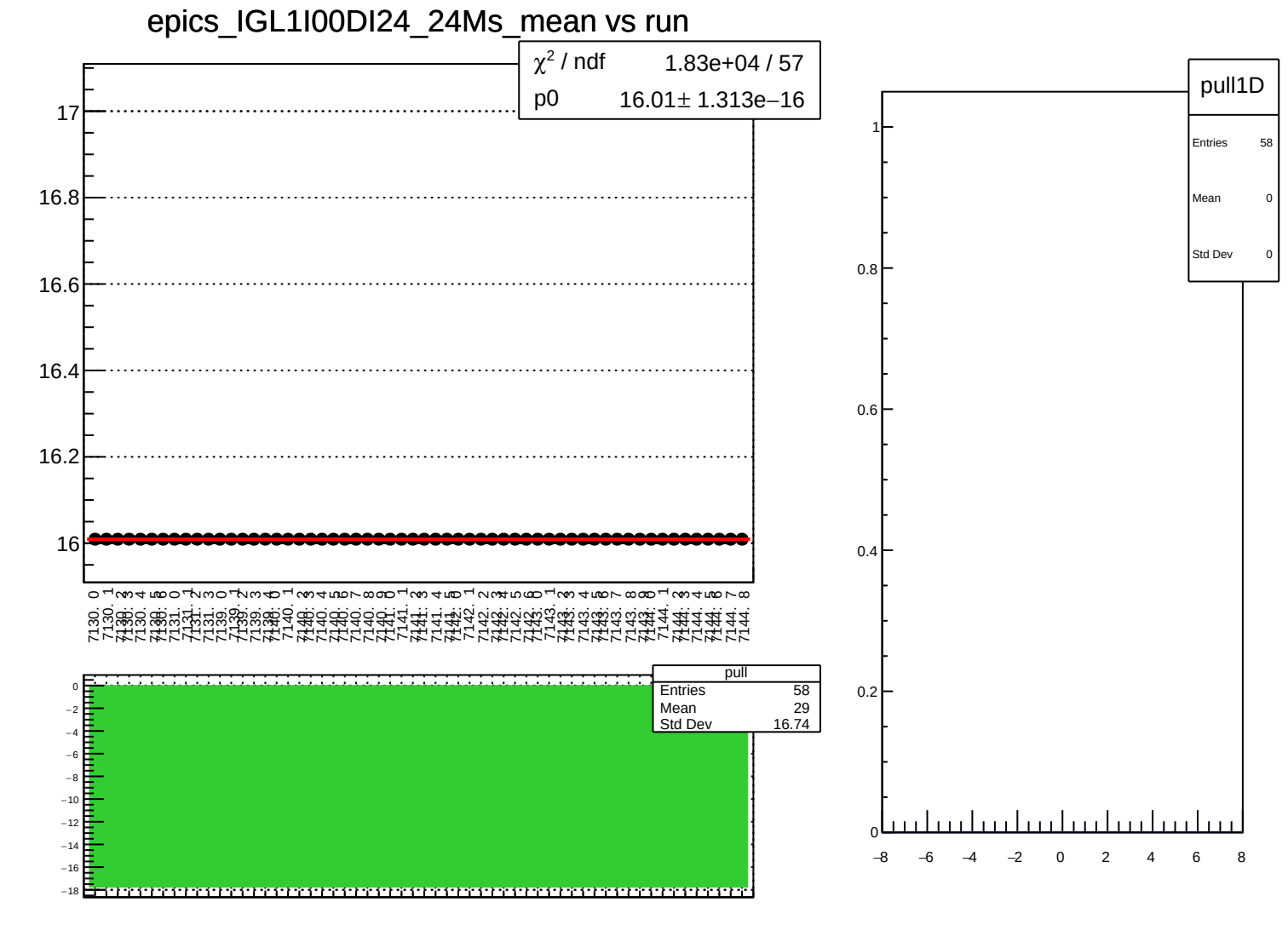

yield_bpm0r05Y_rms vs run
χ² / ndf 7.869e+04 / 57
p0 0.008684 ± 8.56e–06
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

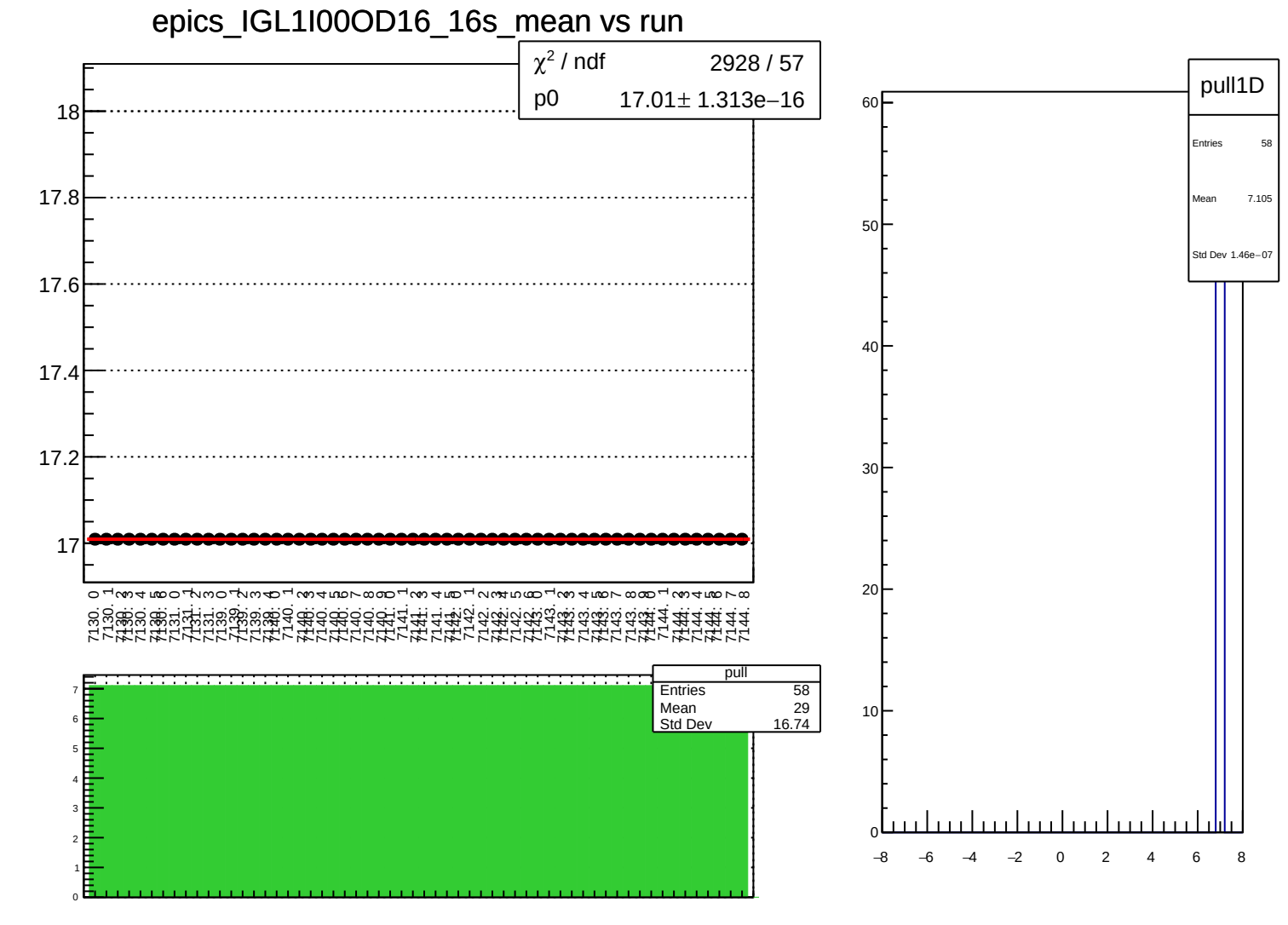

epics_VWienAngles_mean vs run
χ² / ndf 1.054e+05 / 57
p0 −90.6 ± 1.313e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 58
Mean 29
Std Dev 16.74
pull1D
Entries 58
Mean 0
Std Dev 0

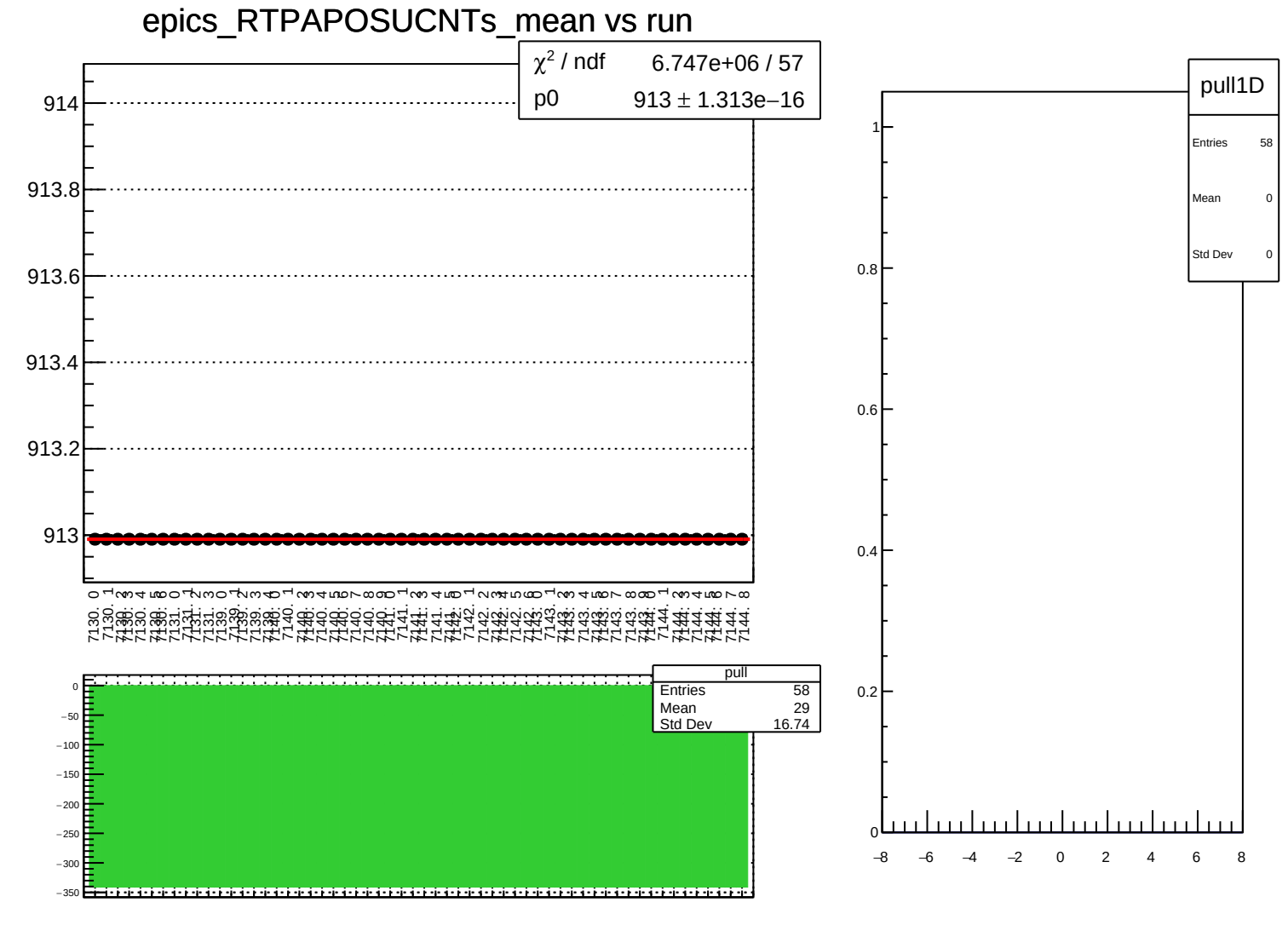

epics_HWienAngles_mean vs run
χ² / ndf 8.858e+04 / 57
p0 −29.64 ± 1.313e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 58
Mean 29
Std Dev 16.74
0
−5
−10
−15
−20
−25
−30
−35
−40
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

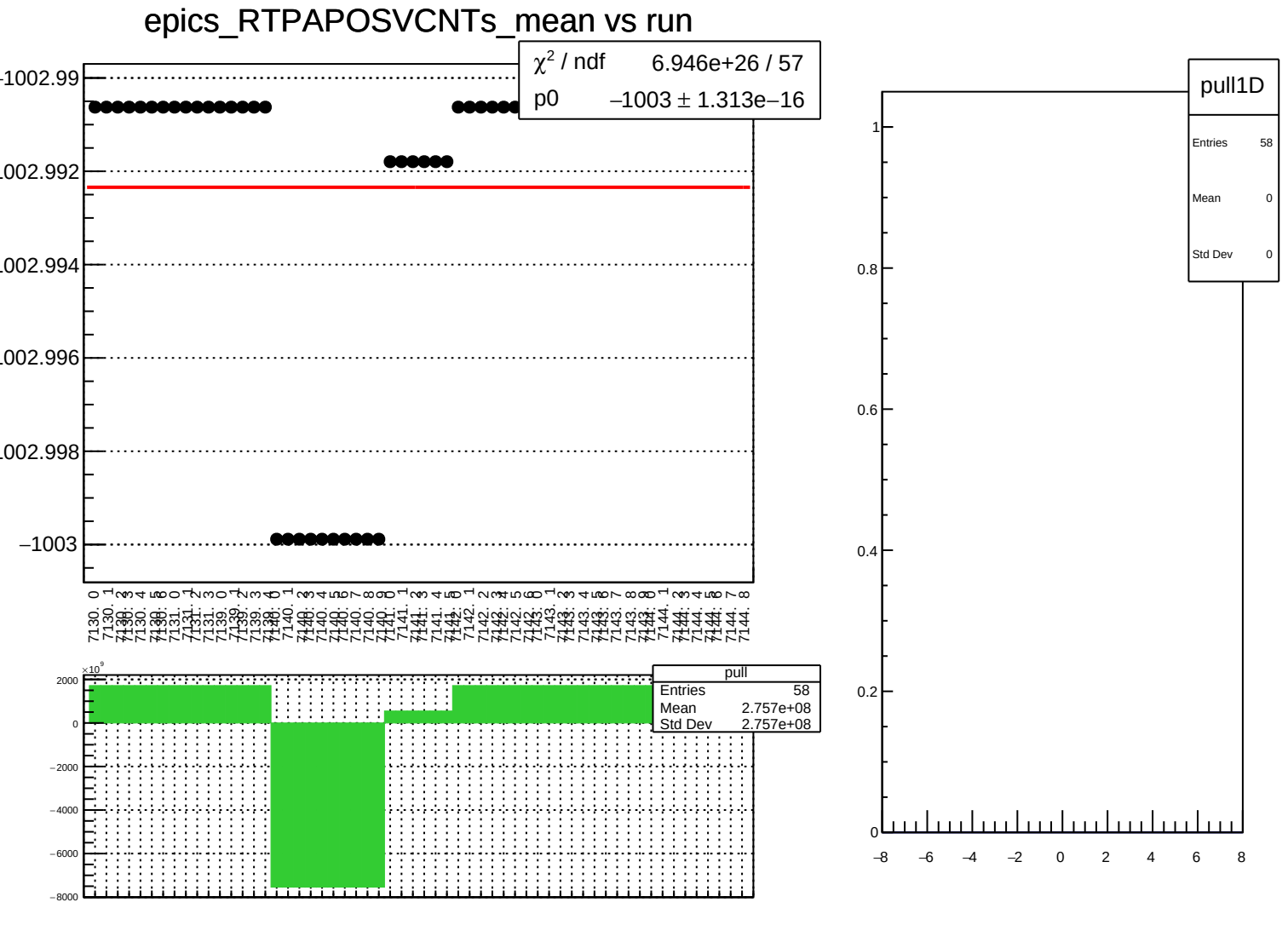

epics_psub_pl_poss_mean vs run
χ² / ndf 2.699e+07 / 57
p0 1468 ± 1.313e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 58
Mean 29
Std Dev 16.74
0
−100
−200
−300
−400
−500
−600
−700
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 1.874e+05 / 57
p0 88.02 ± 1.313e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 58
Mean 29
Std Dev 16.74
0
−10
−20
−30
−40
−50
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.83e+04 / 57
p0 16.01± 1.313e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 58
Mean 29
Std Dev 16.74
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 58
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 2928 / 57
p0 17.01± 1.313e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 58
Mean 29
Std Dev 16.74
pull1D
Entries 58
Mean 7.105
Std Dev 1.46e−07
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 6.747e+06 / 57
p0 913 ± 1.313e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 58
Mean 29
Std Dev 16.74
0
−50
−100
−150
−200
−250
−300
−350
pull1D
Entries 58
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 6.946e+26 / 57
p0 −1003 ± 1.313e−16
−1002.99
−1002.992
−1002.994
−1002.996
−1002.998
−1003
pull
Entries 58
Mean 2.757e+08
Std Dev 2.757e+08
×10⁹
2000
0
−2000
−4000
−6000
−8000
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8