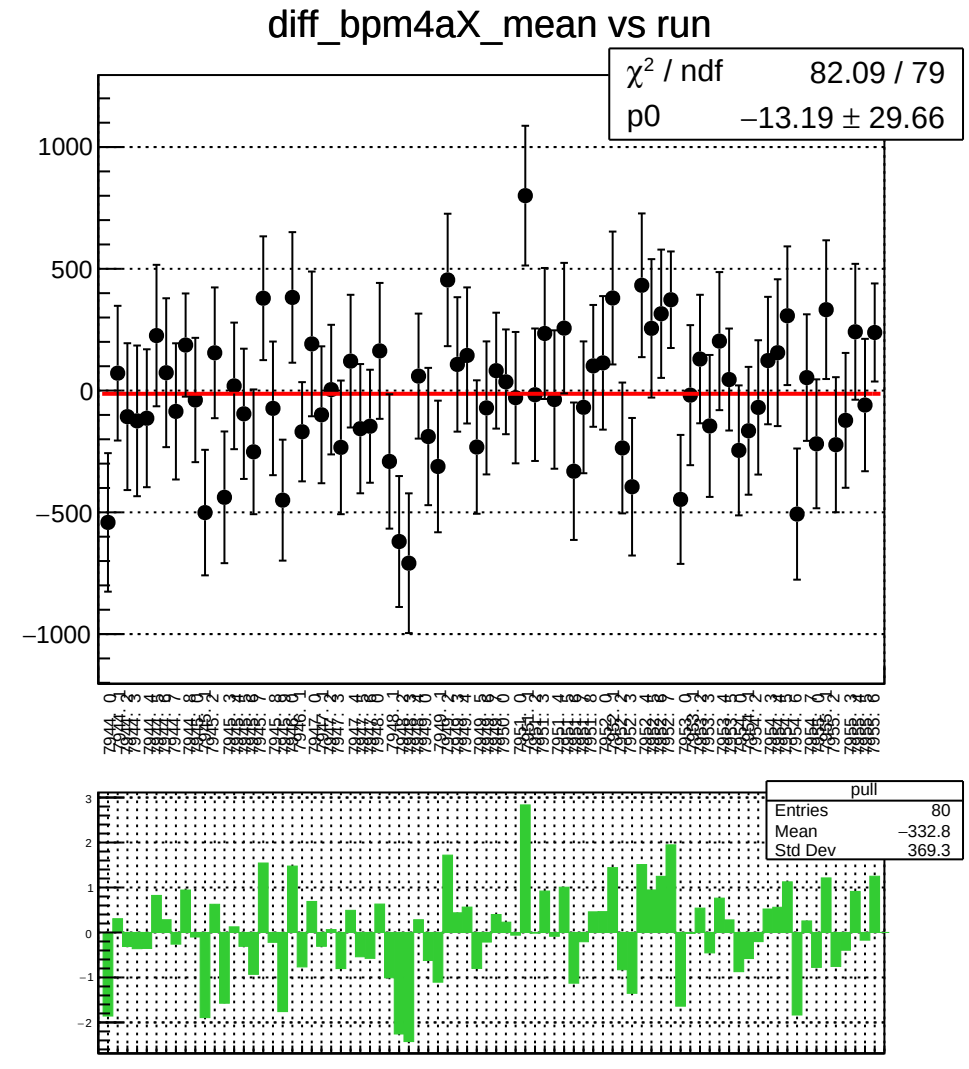
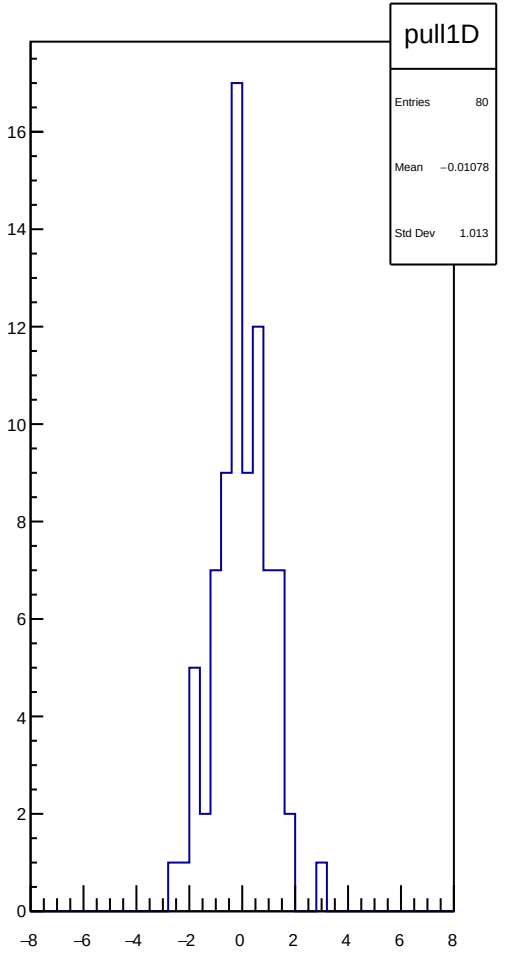
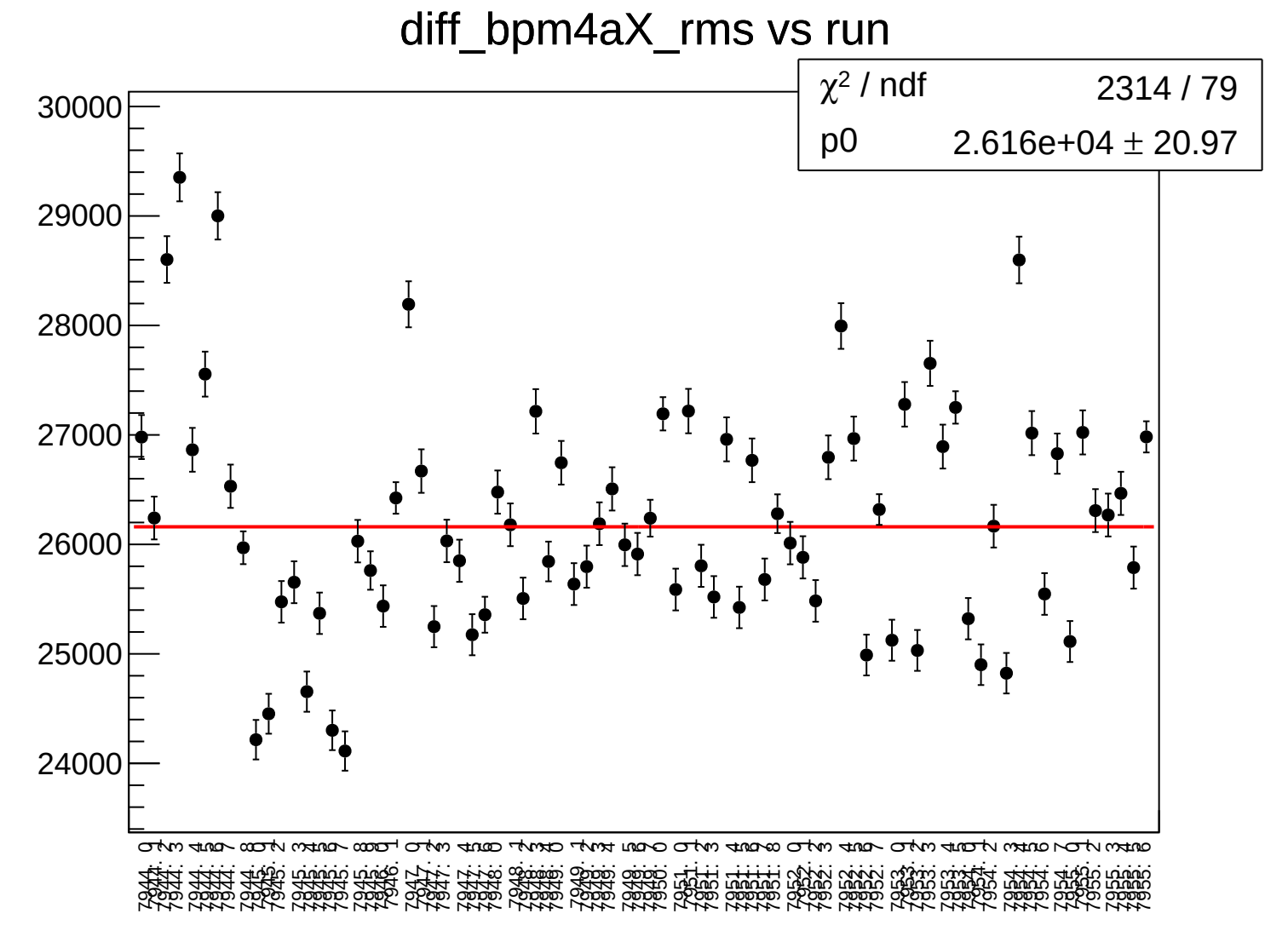
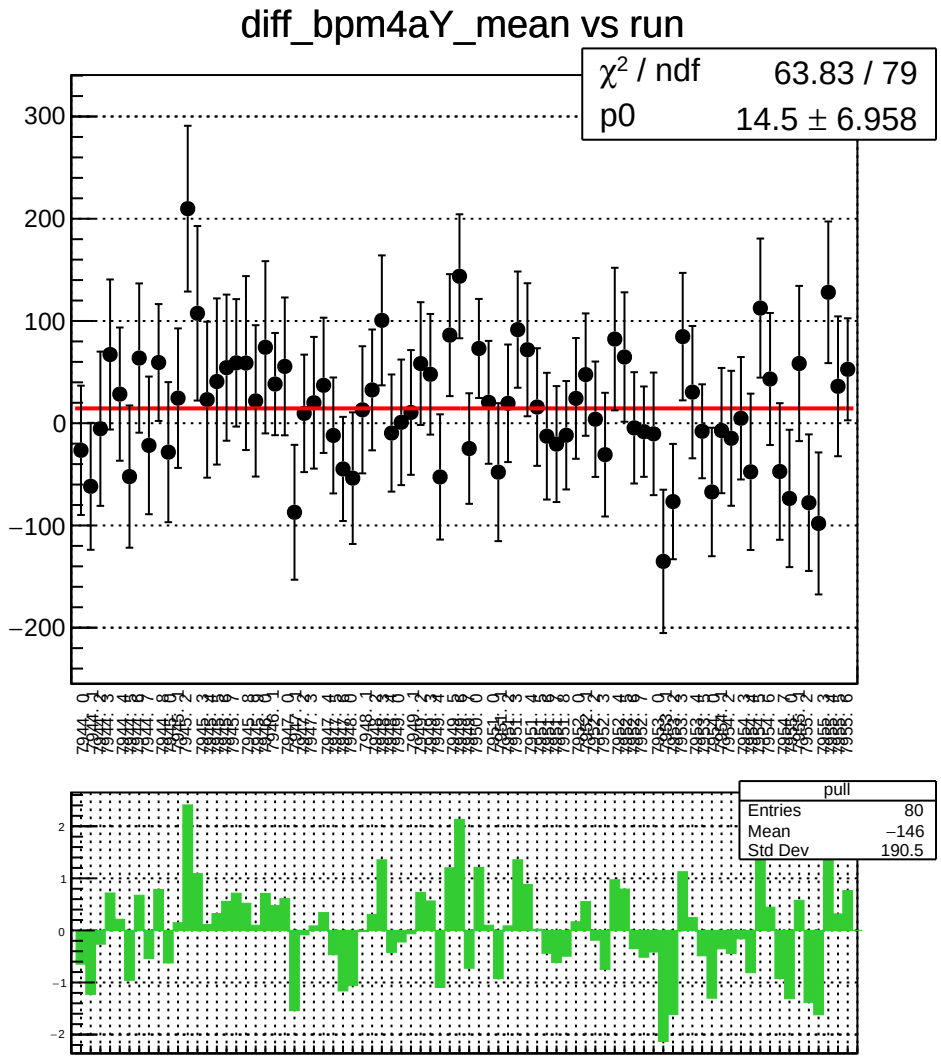
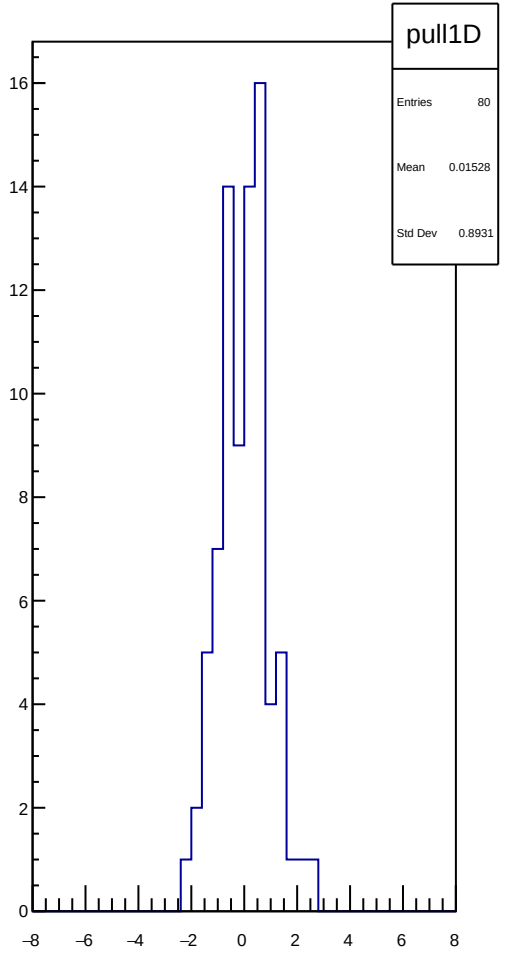
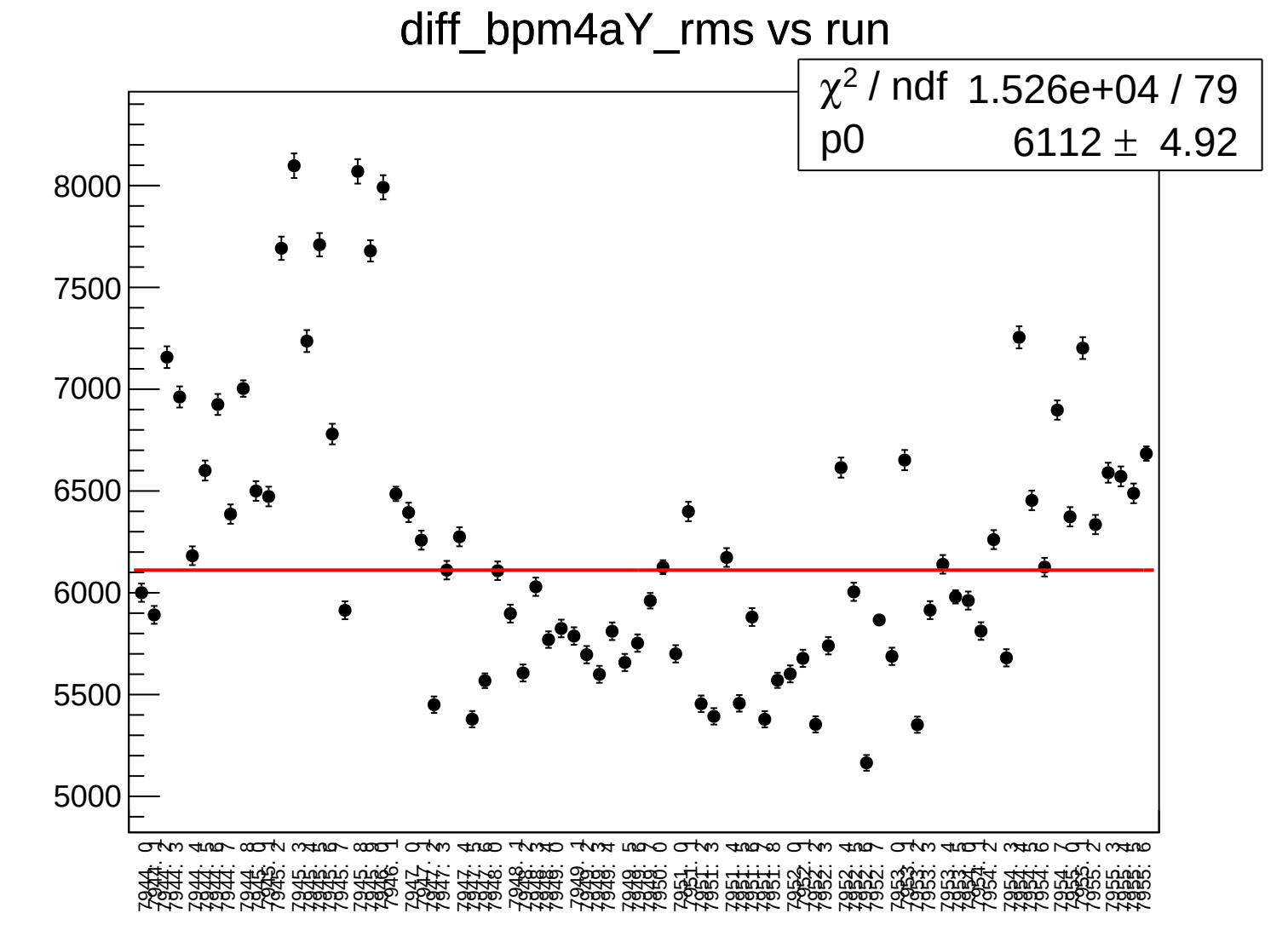

diff_bpm4aX_mean vs run
χ² / ndf 82.09 / 79
p0 −13.19 ± 29.66
1000
500
0
−500
−1000
pull
Entries 80
Mean −332.8
Std Dev 369.3
3
2
1
0
−1
−2

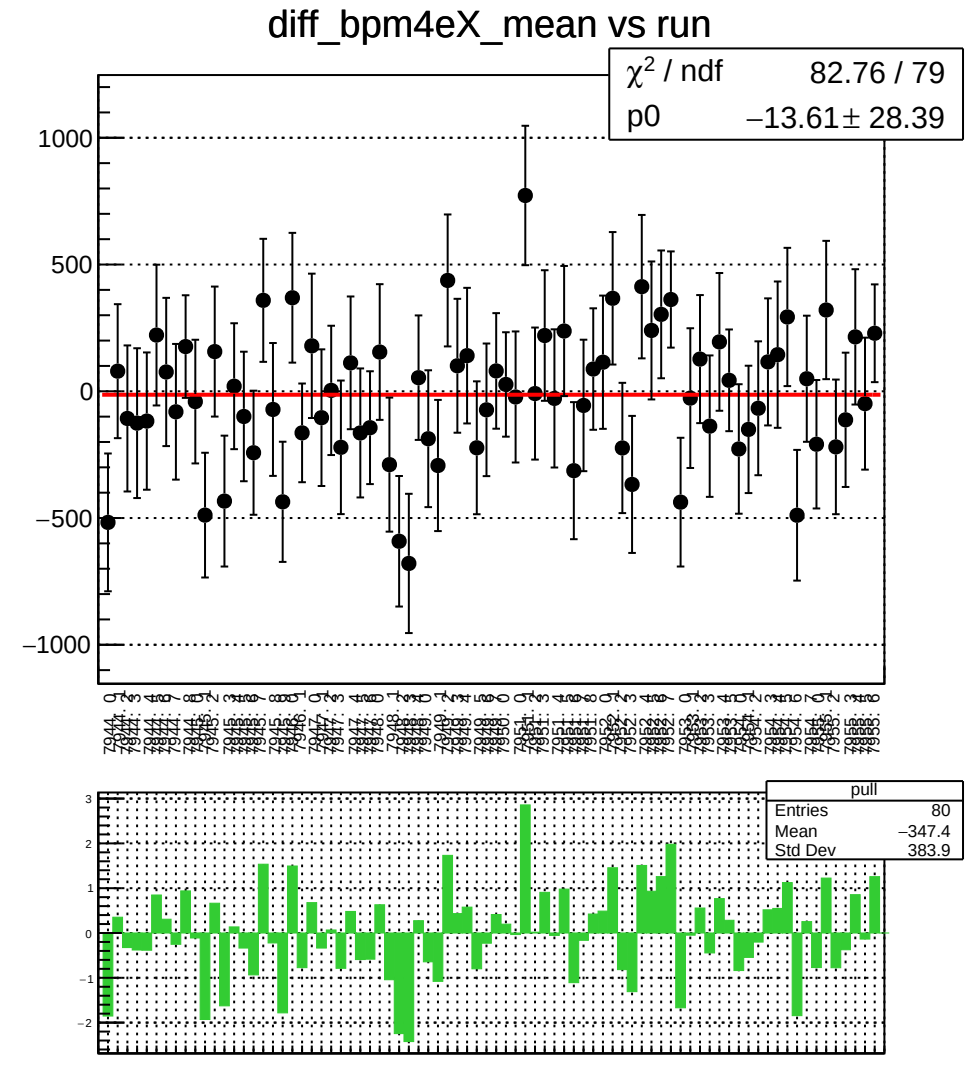

pull1D
Entries 80
Mean −0.01078
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

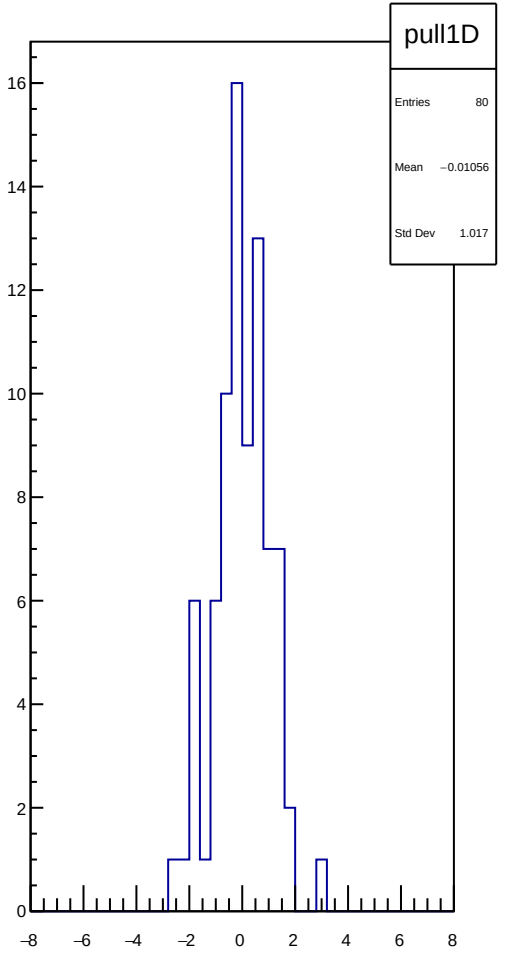

diff_bpm4aX_rms vs run
χ² / ndf 2314 / 79
p0 2.616e+04 ± 20.97
30000
29000
28000
27000
26000
25000
24000

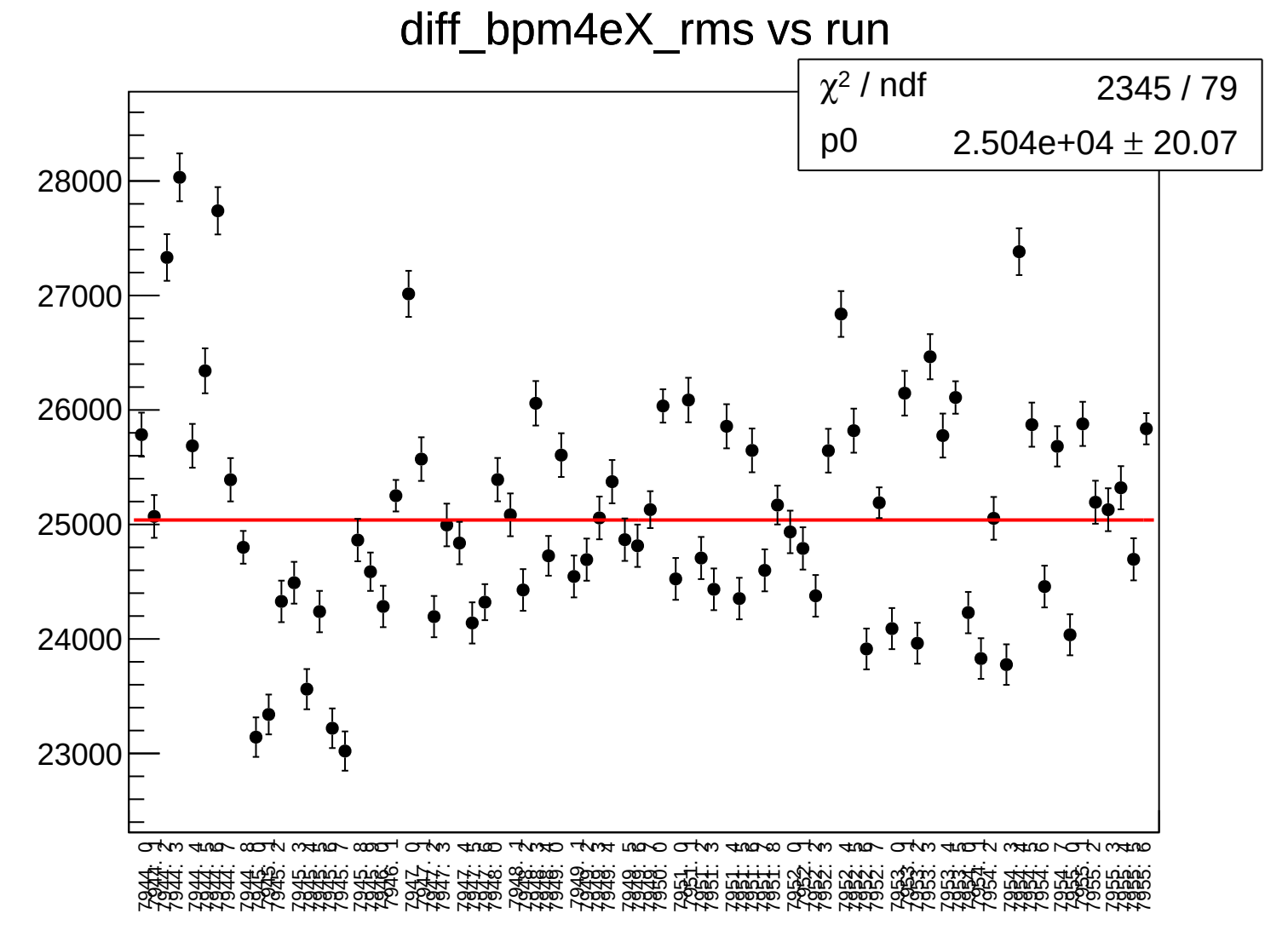

diff_bpm4aY_mean vs run
χ² / ndf 63.83 / 79
p0 14.5 ± 6.958
300
200
100
0
−100
−200
pull
Entries 80
Mean −146
Std Dev 190.5
2
1
0
−1
−2

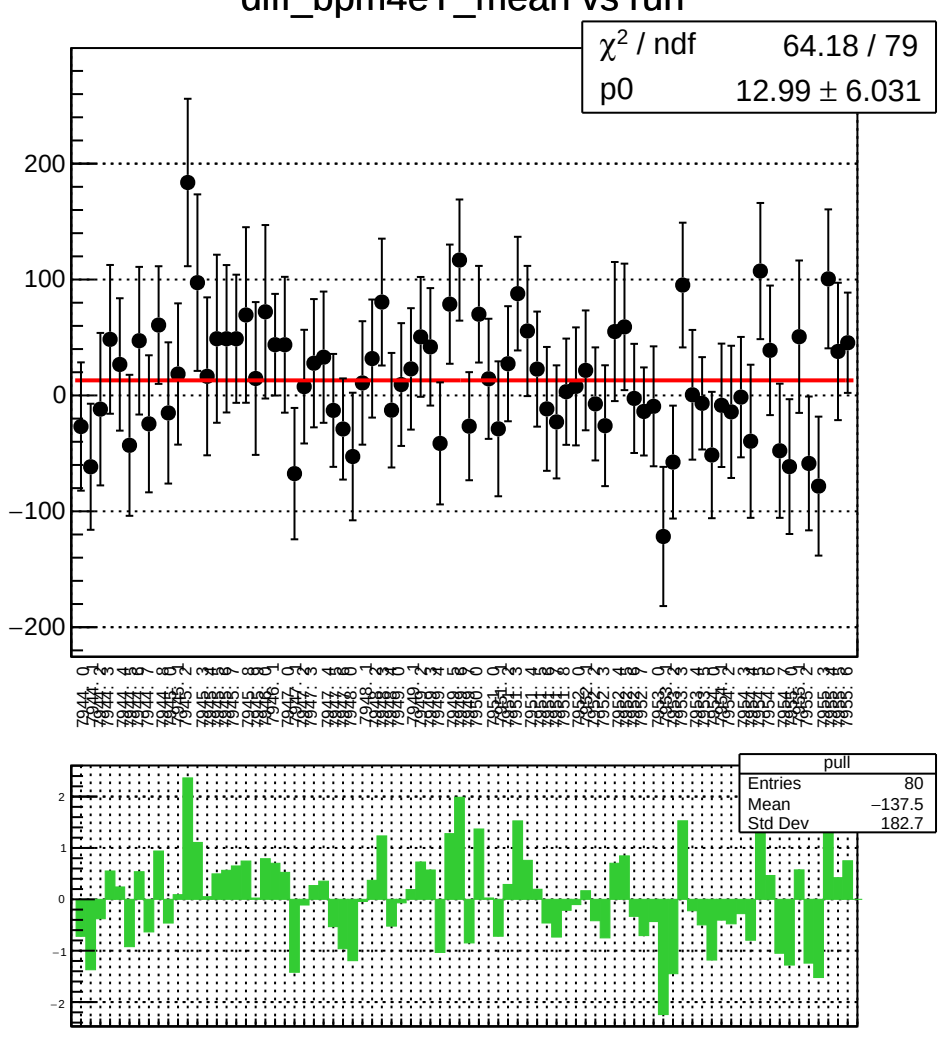

pull1D
Entries 80
Mean 0.01528
Std Dev 0.8931
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

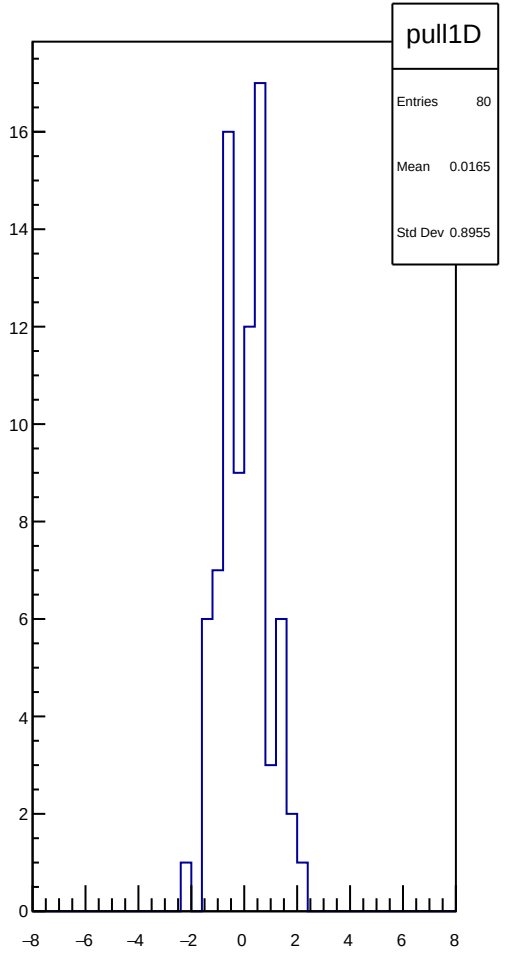

diff_bpm4aY_rms vs run
χ² / ndf 1.526e+04 / 79
p0 6112 ± 4.92
8000
7500
7000
6500
6000
5500
5000

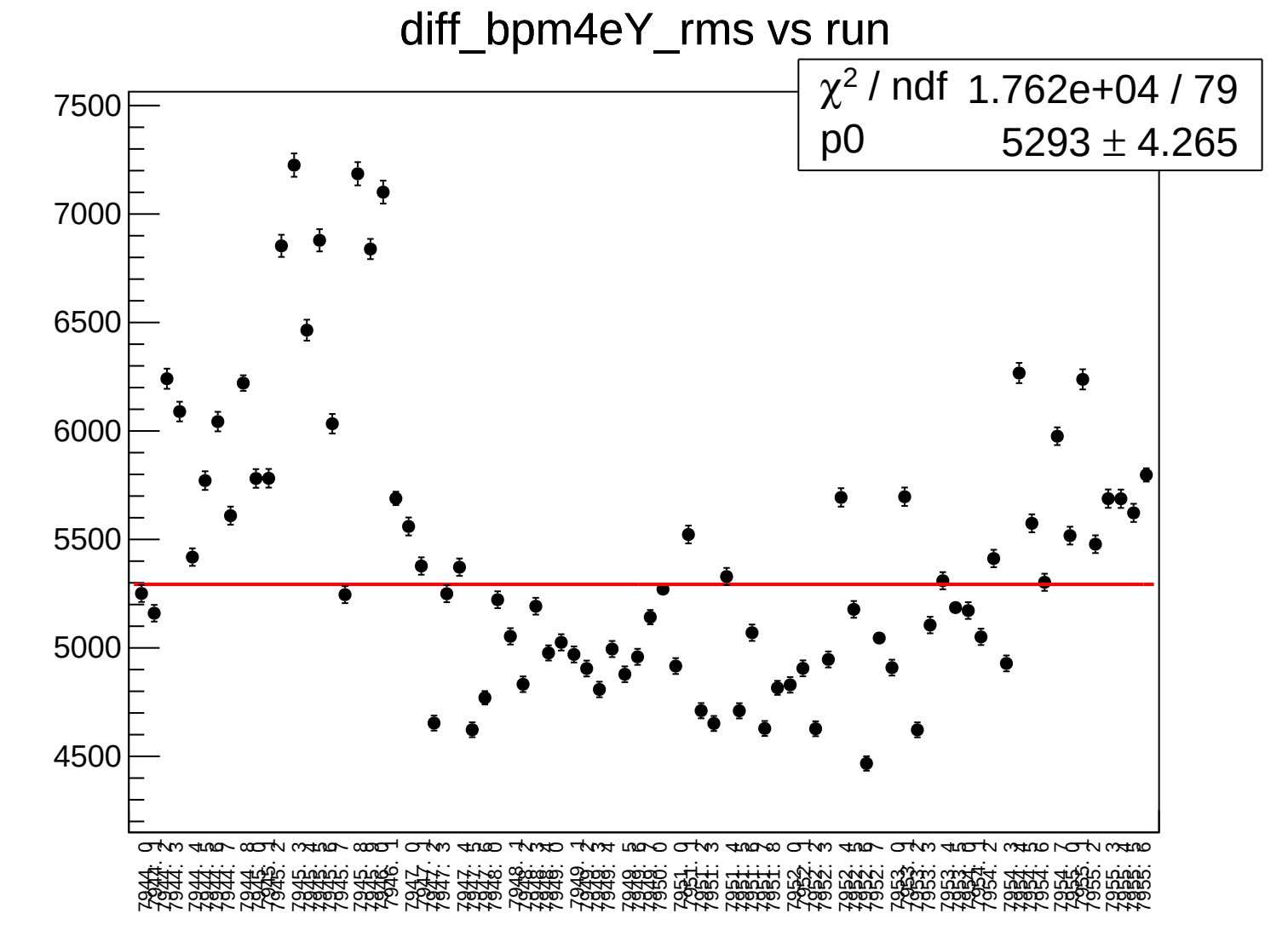

diff_bpm4eX_mean vs run
χ² / ndf 82.76 / 79
p0 −13.61 ± 28.39
1000
500
0
−500
−1000
pull
Entries 80
Mean −347.4
Std Dev 383.9
3
2
1
0
−1
−2

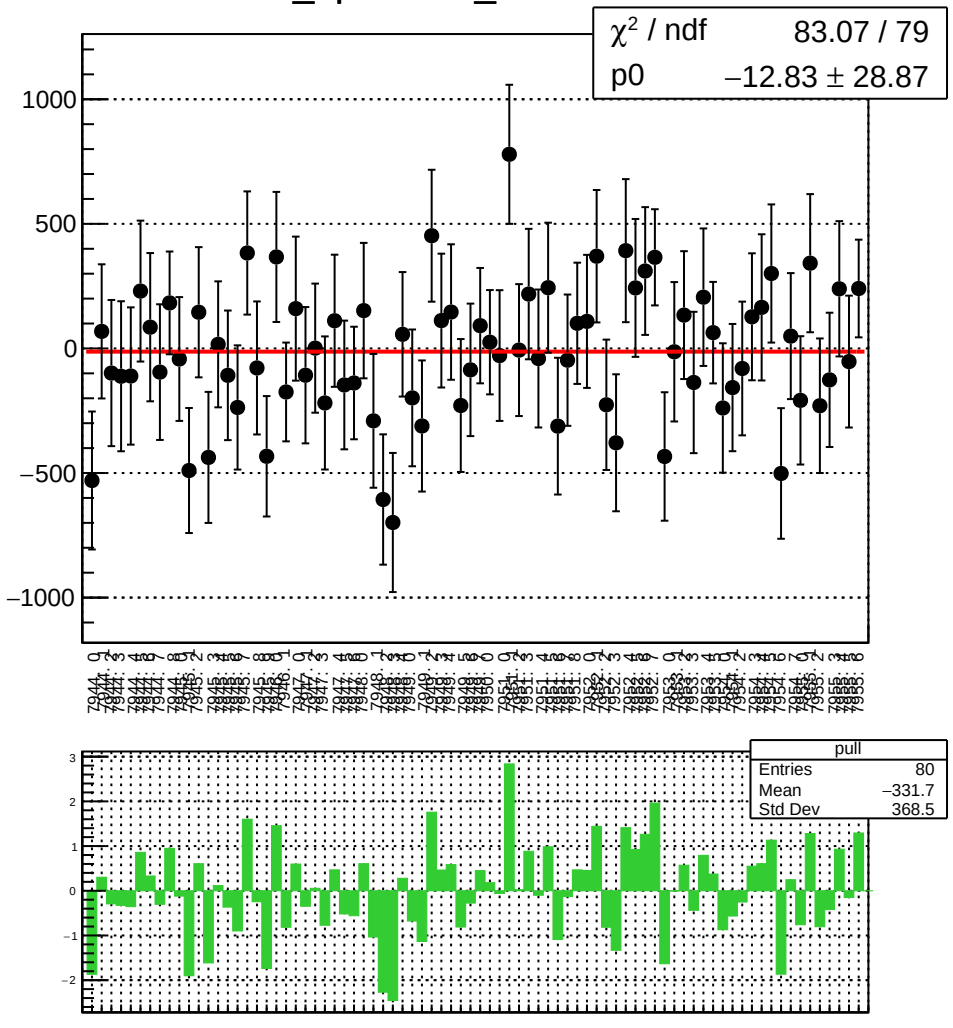

pull1D
Entries 80
Mean −0.01056
Std Dev 1.017
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

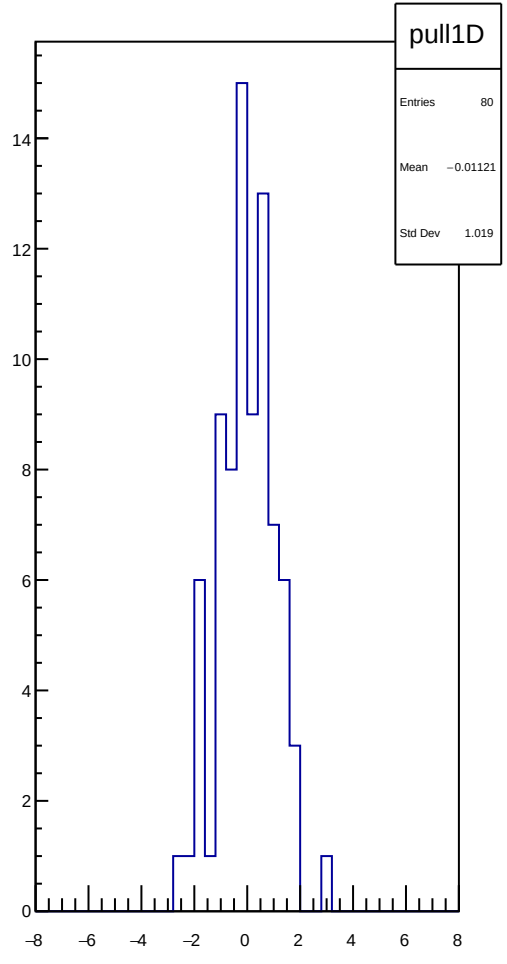

diff_bpm4eX_rms vs run
χ² / ndf 2345 / 79
p0 2.504e+04 ± 20.07
28000
27000
26000
25000
24000
23000


diff_bpm4eY_mean vs run
χ^2 / ndf 64.18 / 79
p0 12.99 ± 6.031
200
100
0
−100
−200
pull
Entries 80
Mean −137.5
Std Dev 182.7
2
1
0
−1
−2

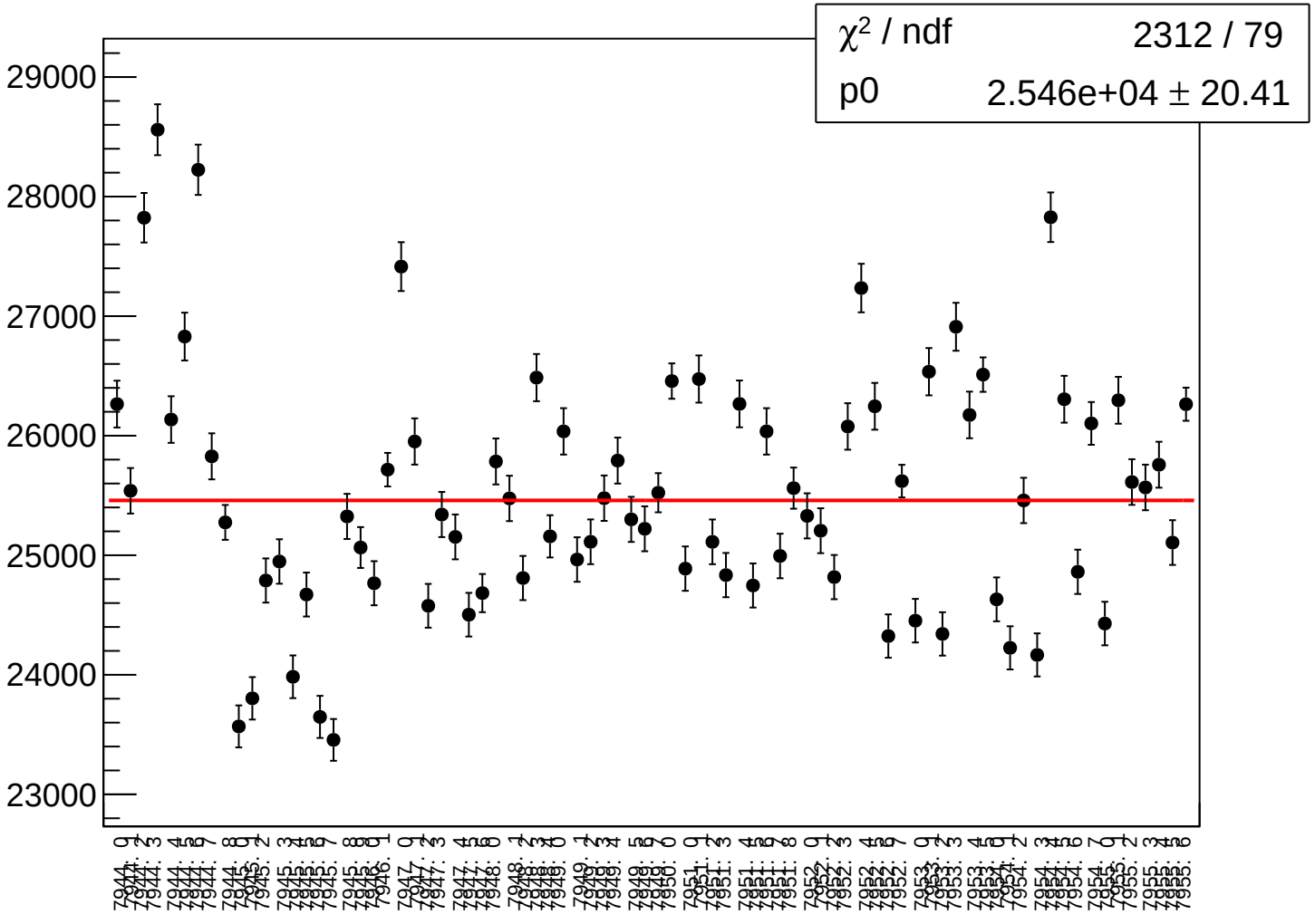

pull1D
Entries 80
Mean 0.0165
Std Dev 0.8955
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

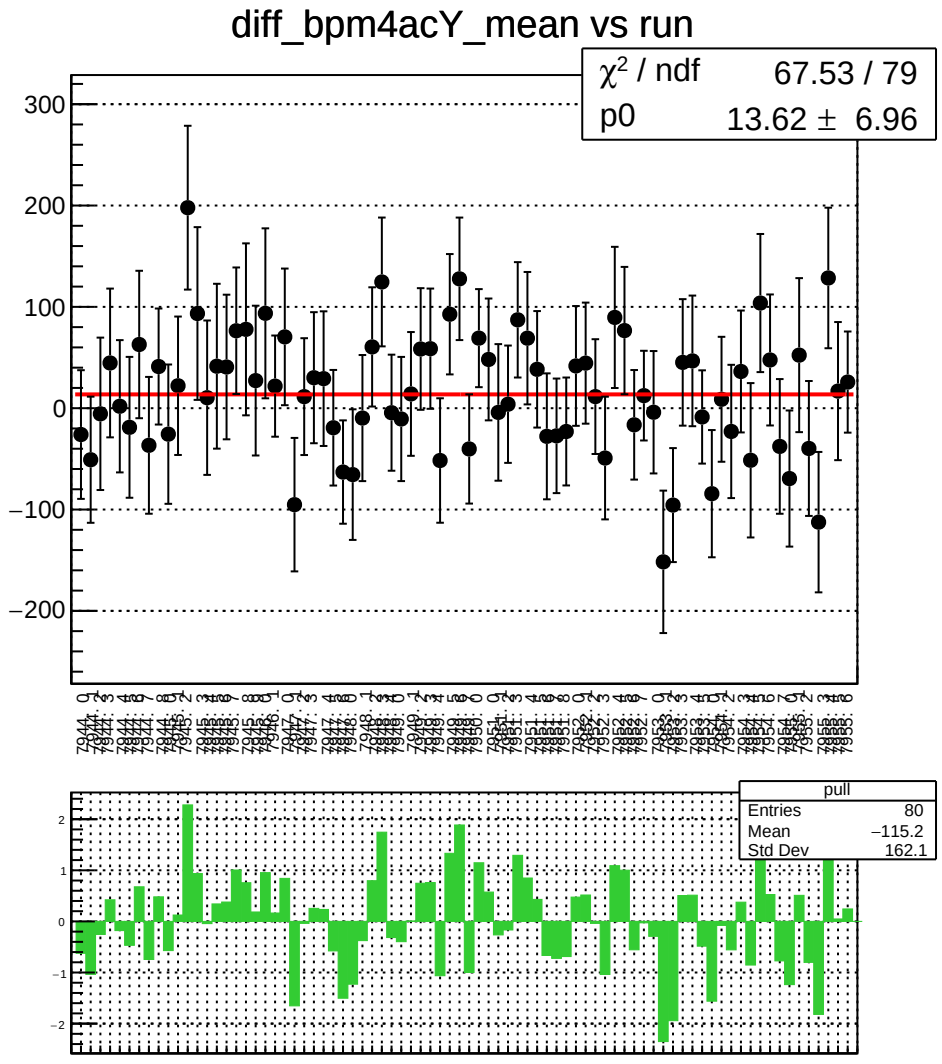

diff_bpm4eY_rms vs run
χ^2 / ndf 1.762e+04 / 79
p0 5293 ± 4.265
7500
7000
6500
6000
5500
5000
4500

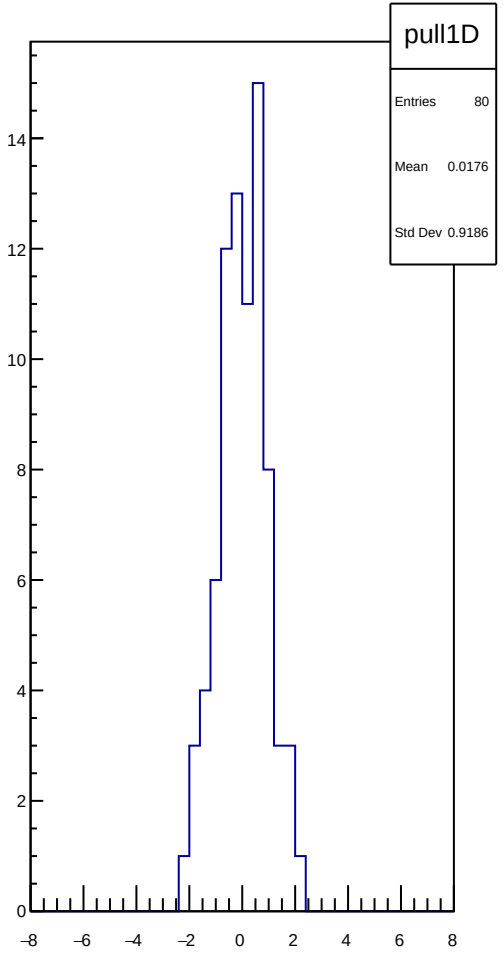

diff_bpm4acX_mean vs run
χ^2 / ndf 83.07 / 79
p0 −12.83 ± 28.87
1000
500
0
−500
−1000
pull
Entries 80
Mean −331.7
Std Dev 368.5
3
2
1
0
−1
−2

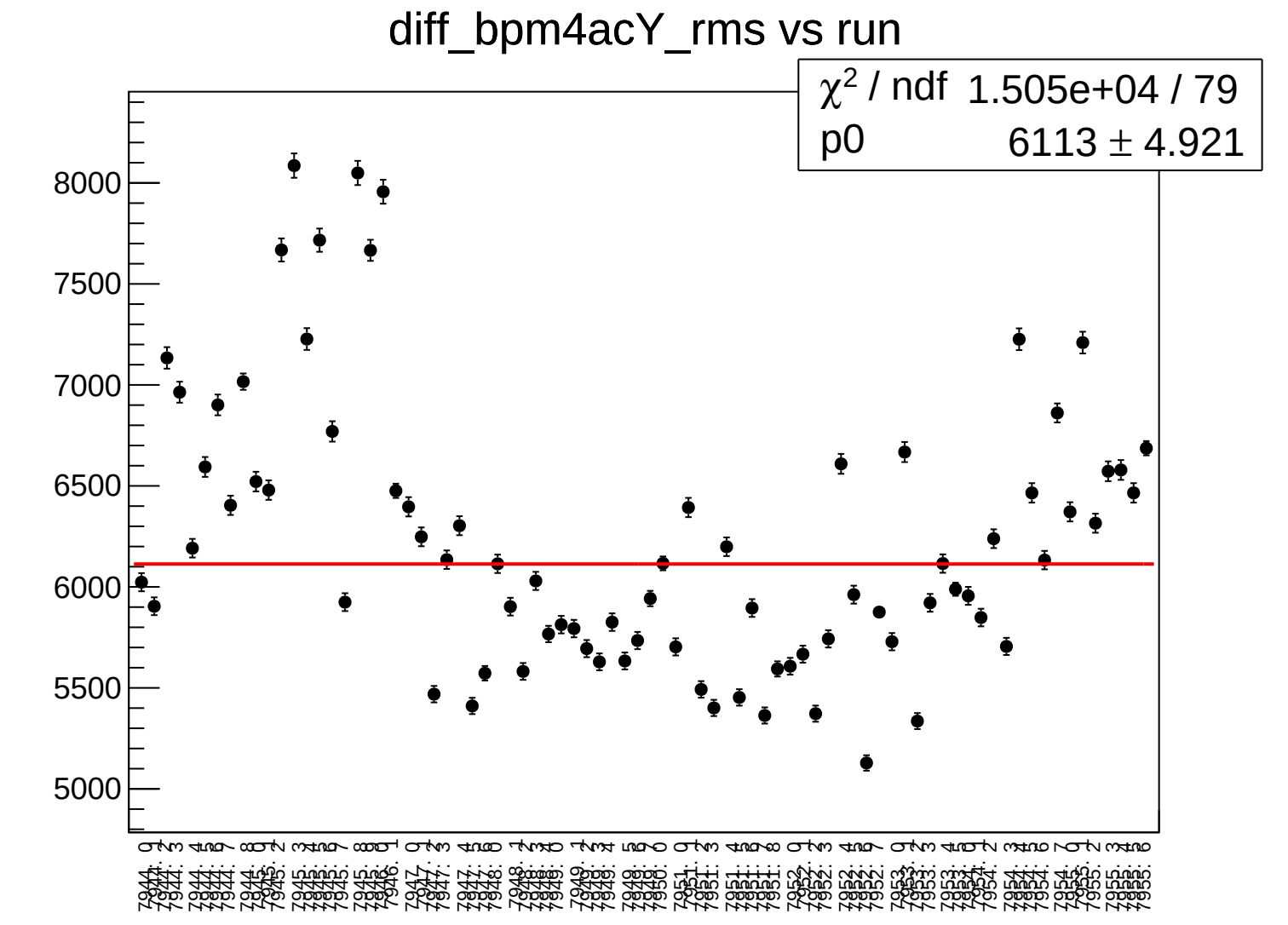

pull1D
Entries 80
Mean −0.01121
Std Dev 1.019
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

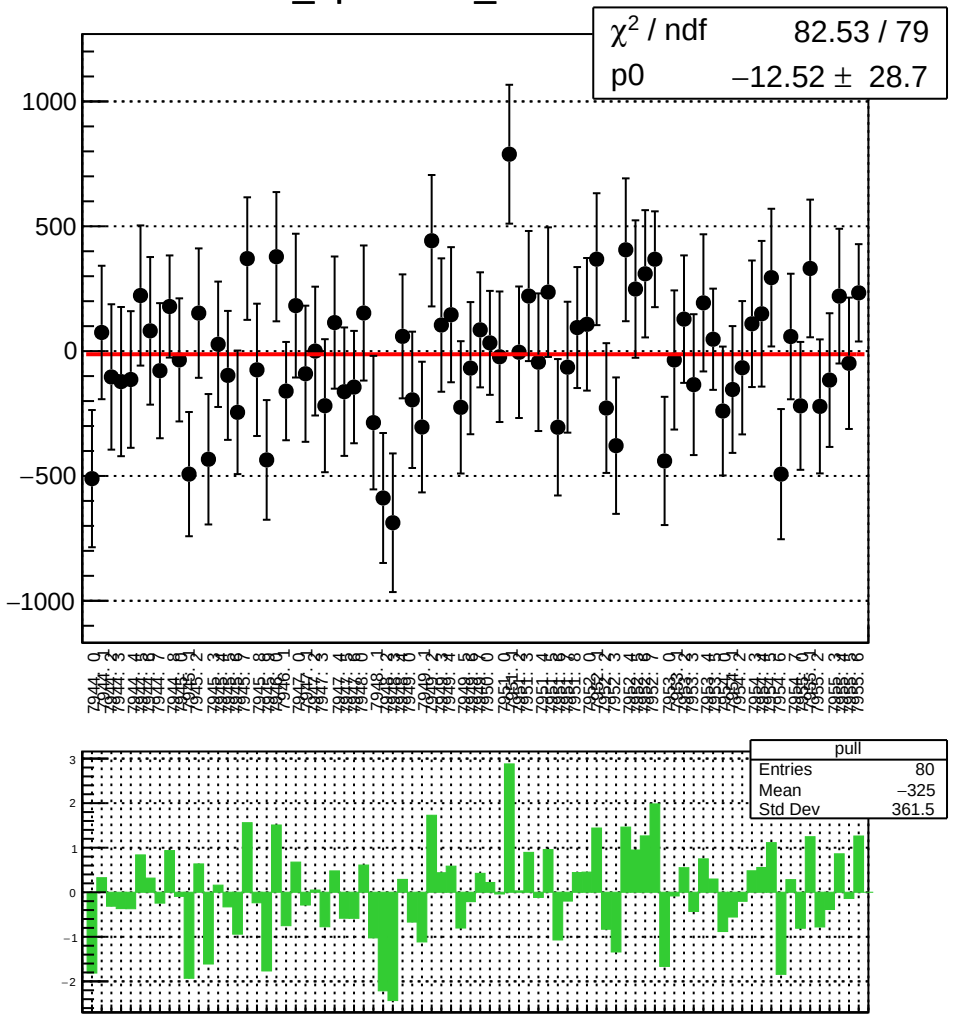
diff_bpm4acX_rms vs run

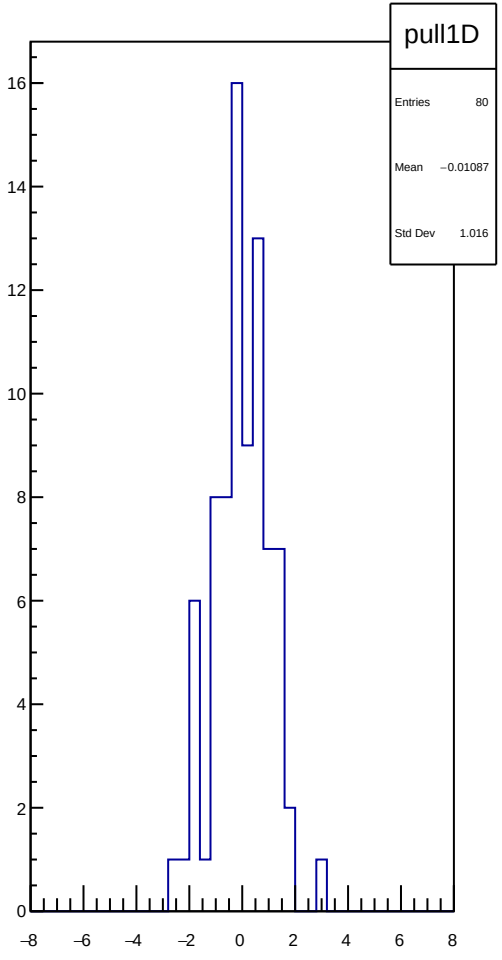


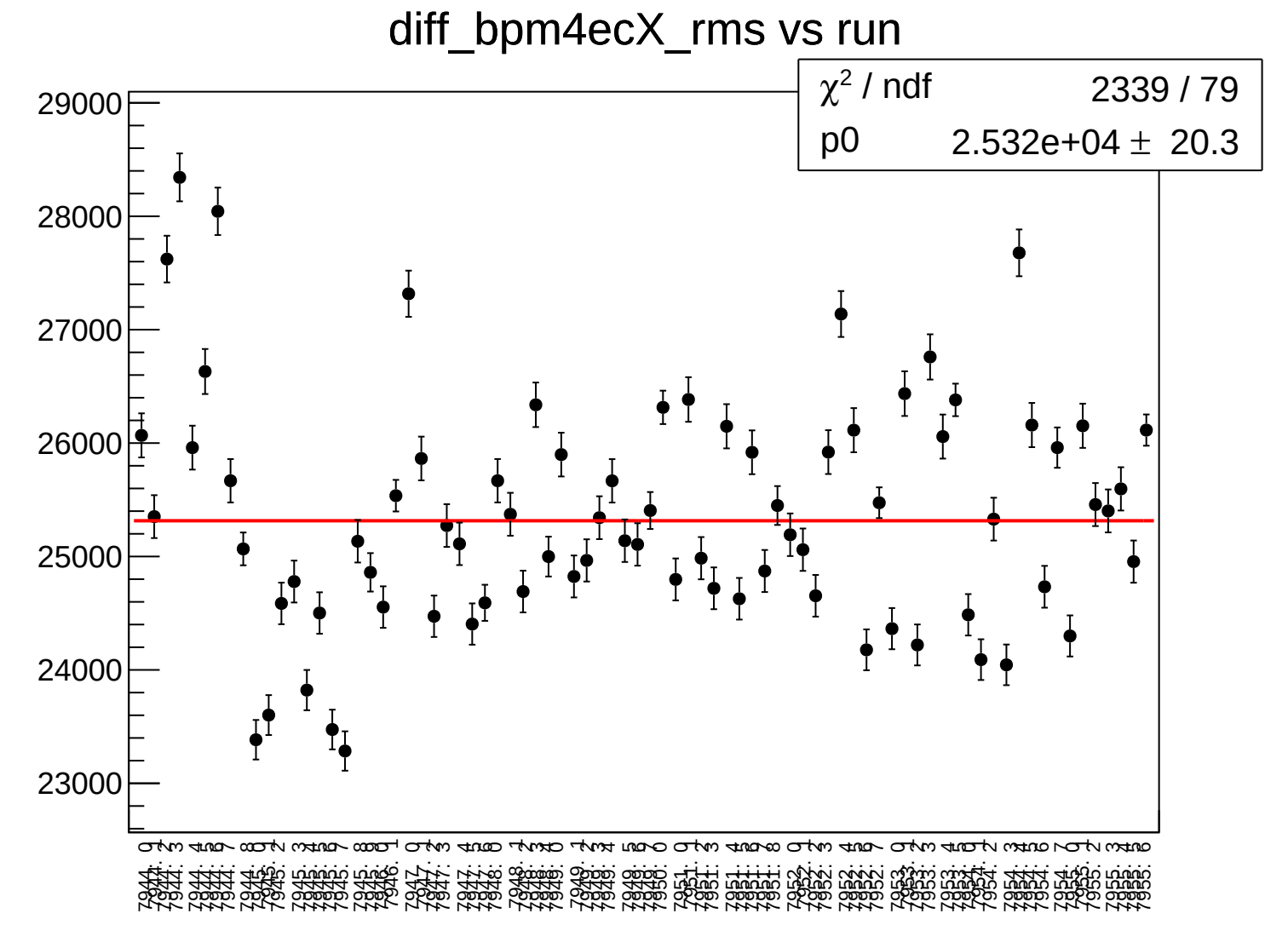

diff_bpm4acY_mean vs run
χ² / ndf 67.53 / 79
p0 13.62 ± 6.96
pull
Entries 80
Mean −115.2
Std Dev 162.1

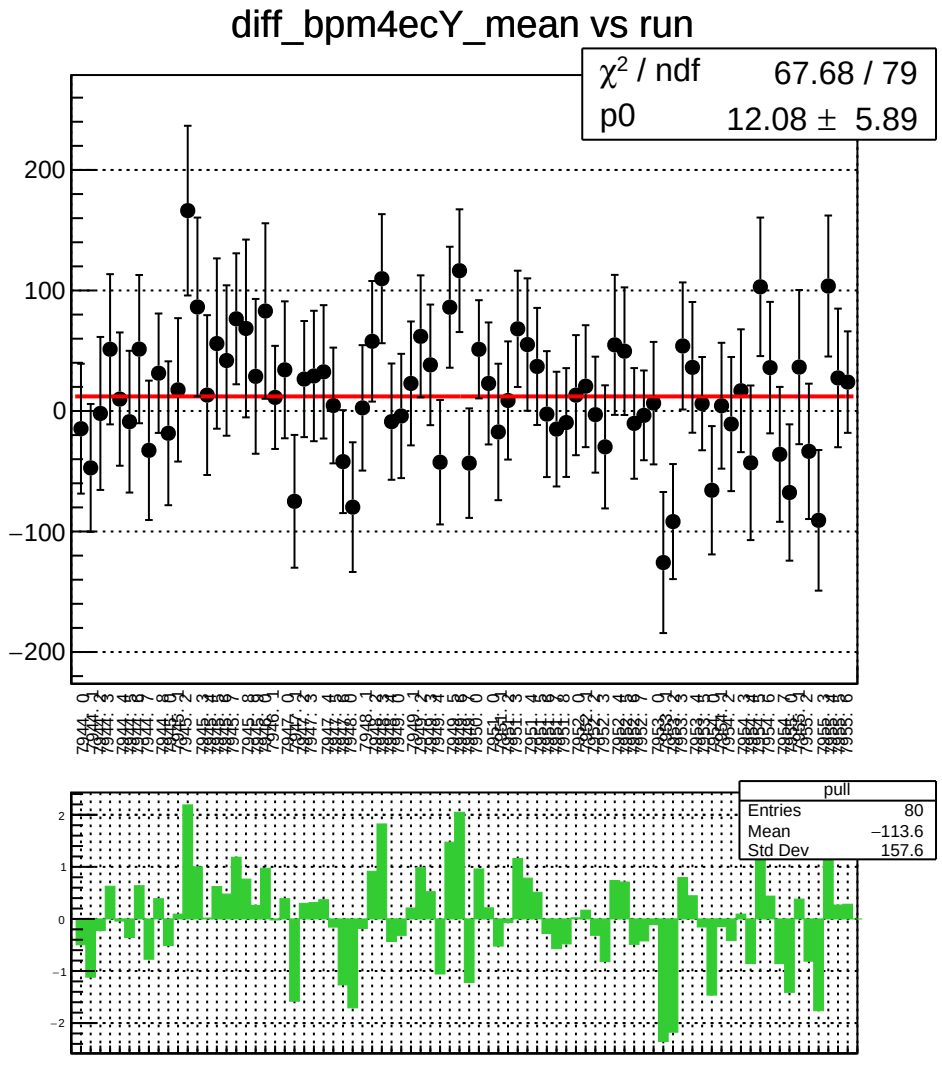

pull1D
Entries 80
Mean 0.0176
Std Dev 0.9186

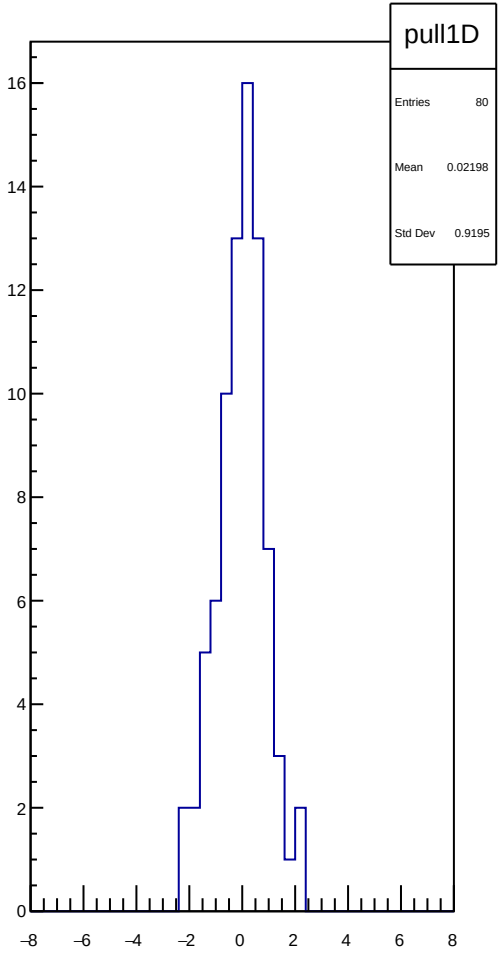

diff_bpm4acY_rms vs run
χ² / ndf 1.505e+04 / 79
p0 6113 ± 4.921
8000
7500
7000
6500
6000
5500
5000

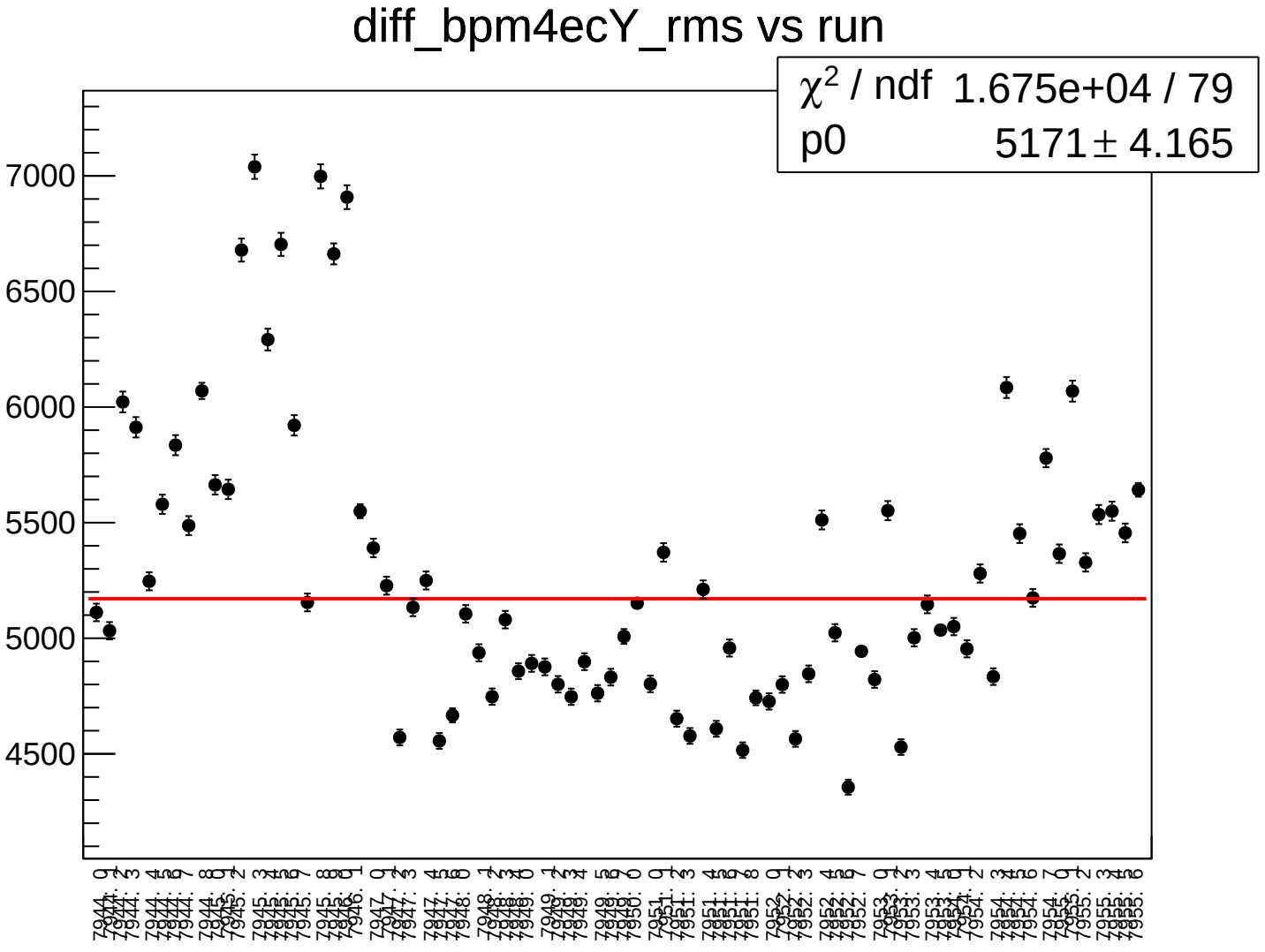

diff_bpm4ecX_mean vs run
χ² / ndf 82.53 / 79
p0 −12.52 ± 28.7
1000
500
0
−500
−1000
pull
Entries 80
Mean −325
Std Dev 361.5
3
2
1
0
−1
−2

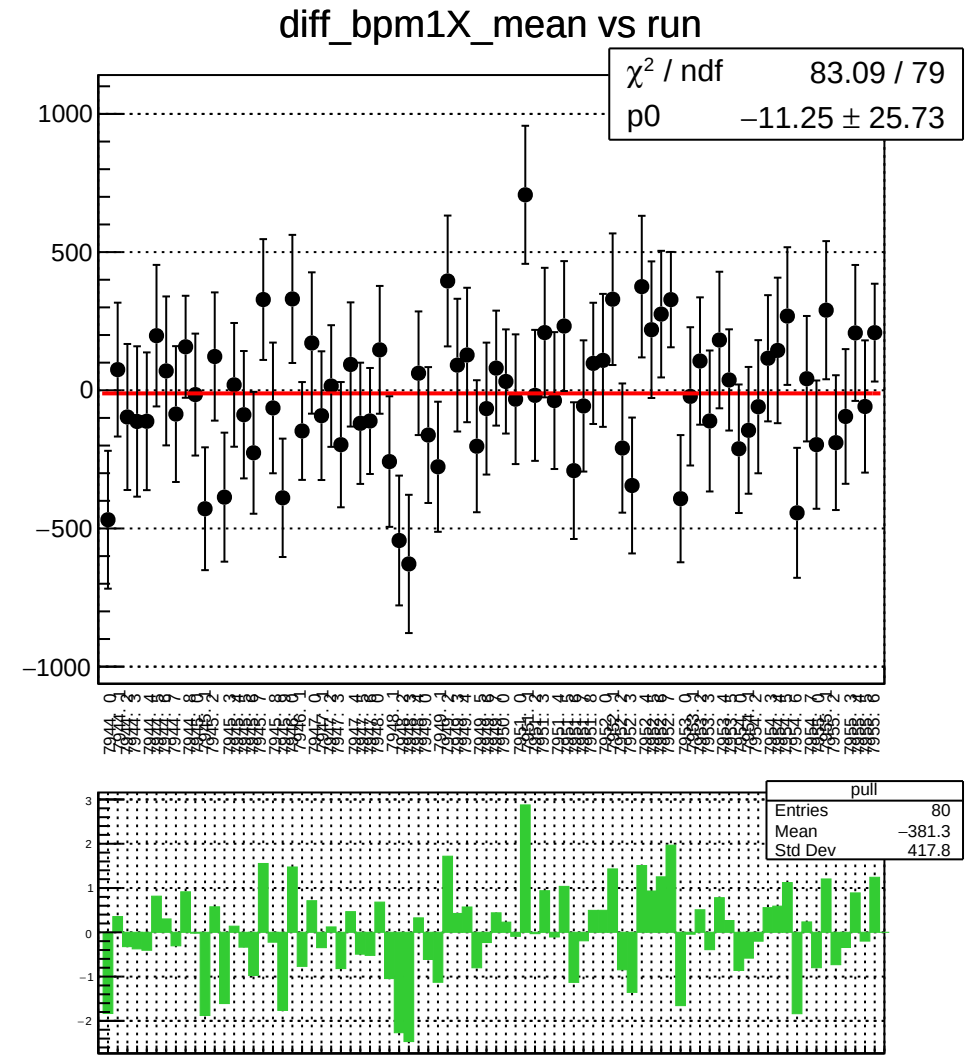

pull1D
Entries 80
Mean −0.01087
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

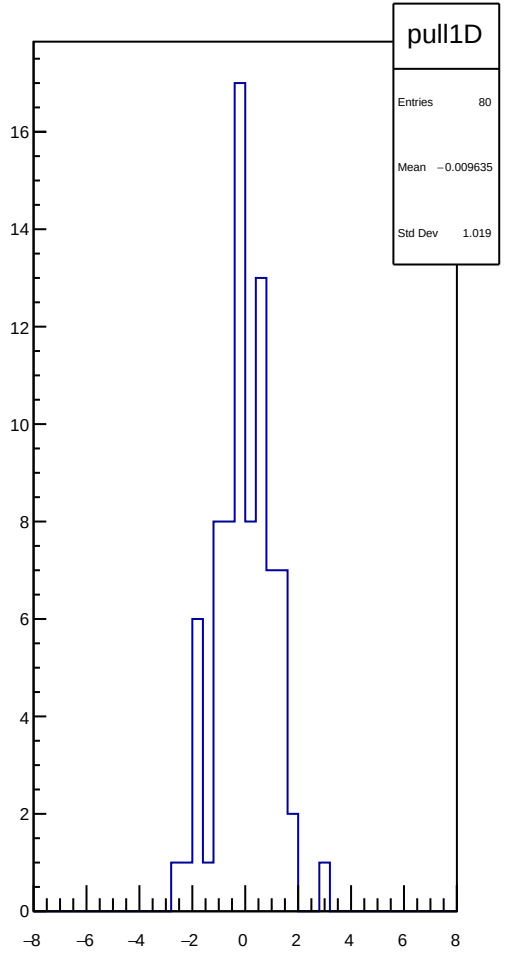

diff_bpm4ecX_rms vs run
χ² / ndf 2339 / 79
p0 2.532e+04 ± 20.3
29000
28000
27000
26000
25000
24000
23000

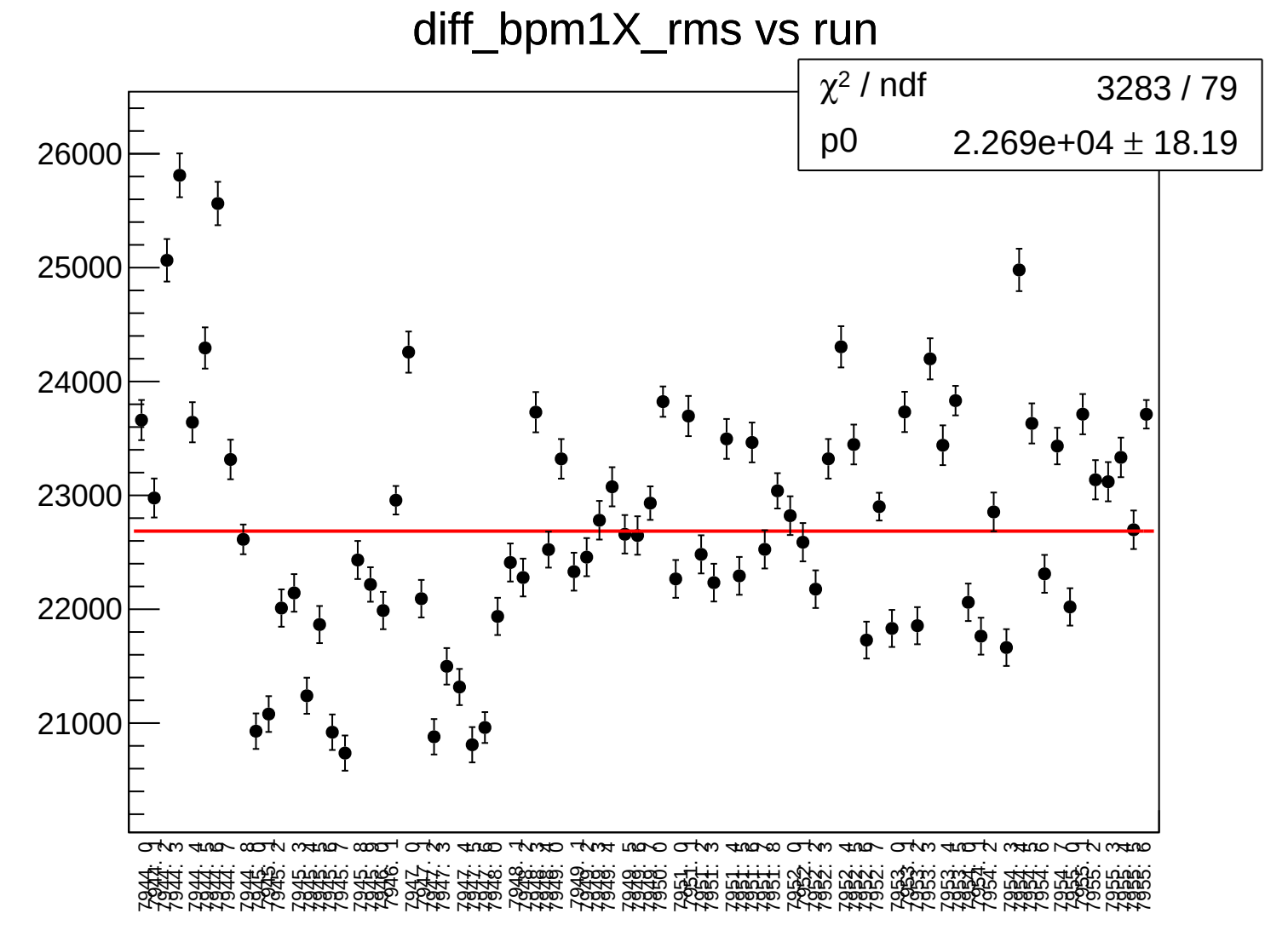

diff_bpm4ecY_mean vs run
χ² / ndf 67.68 / 79
p0 12.08 ± 5.89
pull
Entries 80
Mean −113.6
Std Dev 157.6

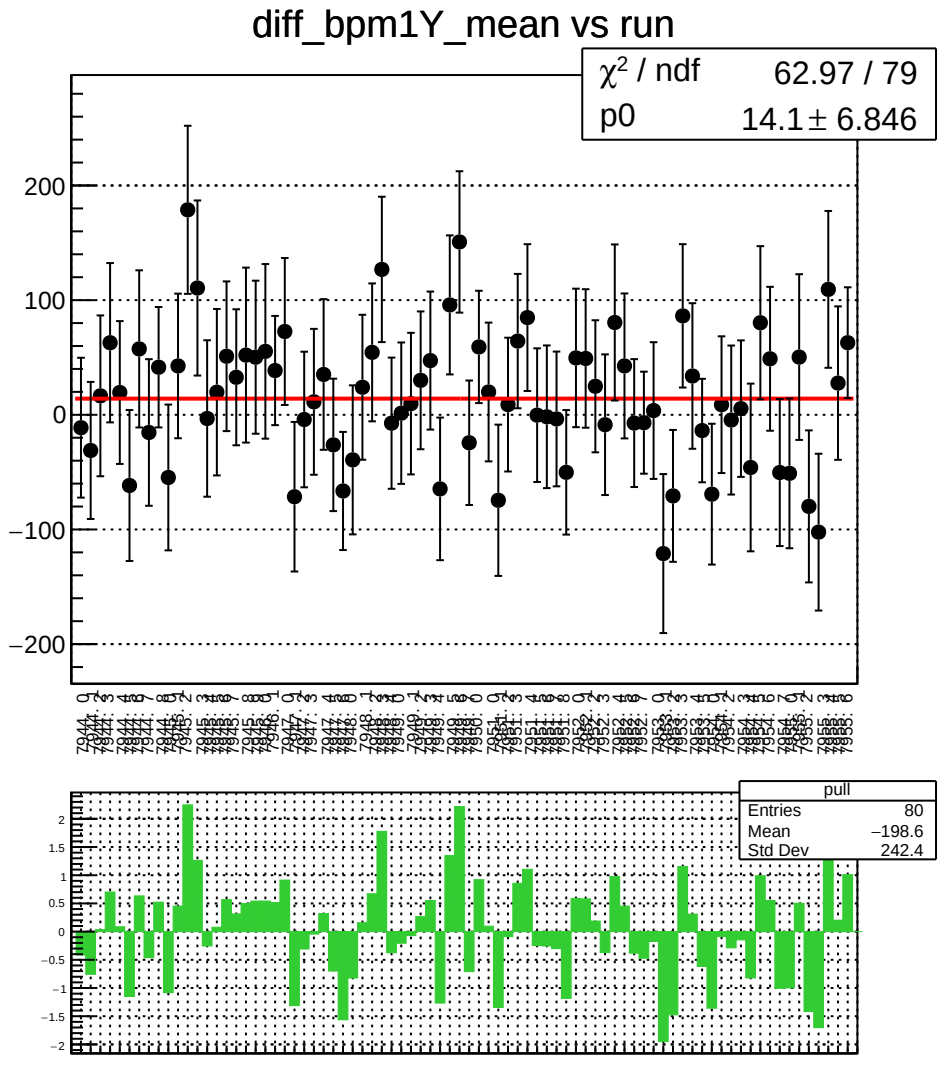

pull1D
Entries 80
Mean 0.02198
Std Dev 0.9195

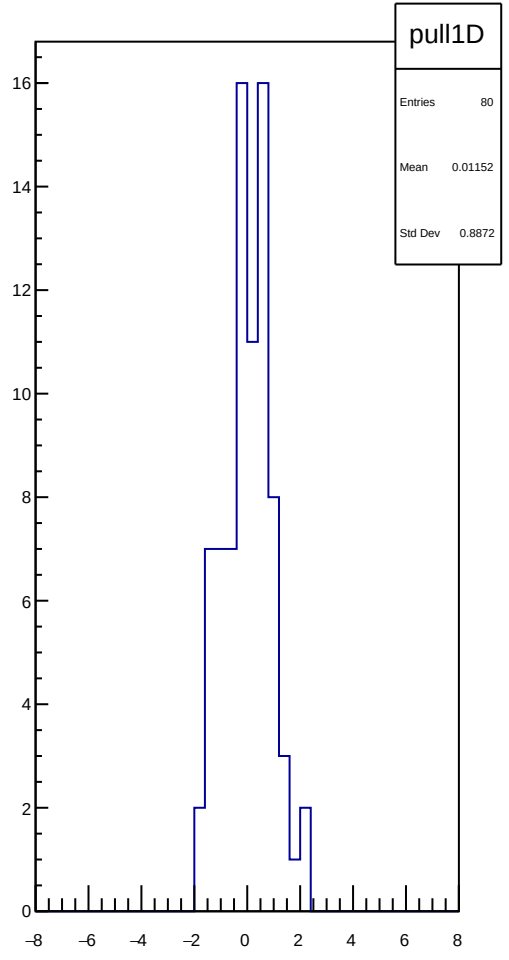

diff_bpm4ecY_rms vs run
χ² / ndf 1.675e+04 / 79
p0 5171 ± 4.165
7000
6500
6000
5500
5000
4500

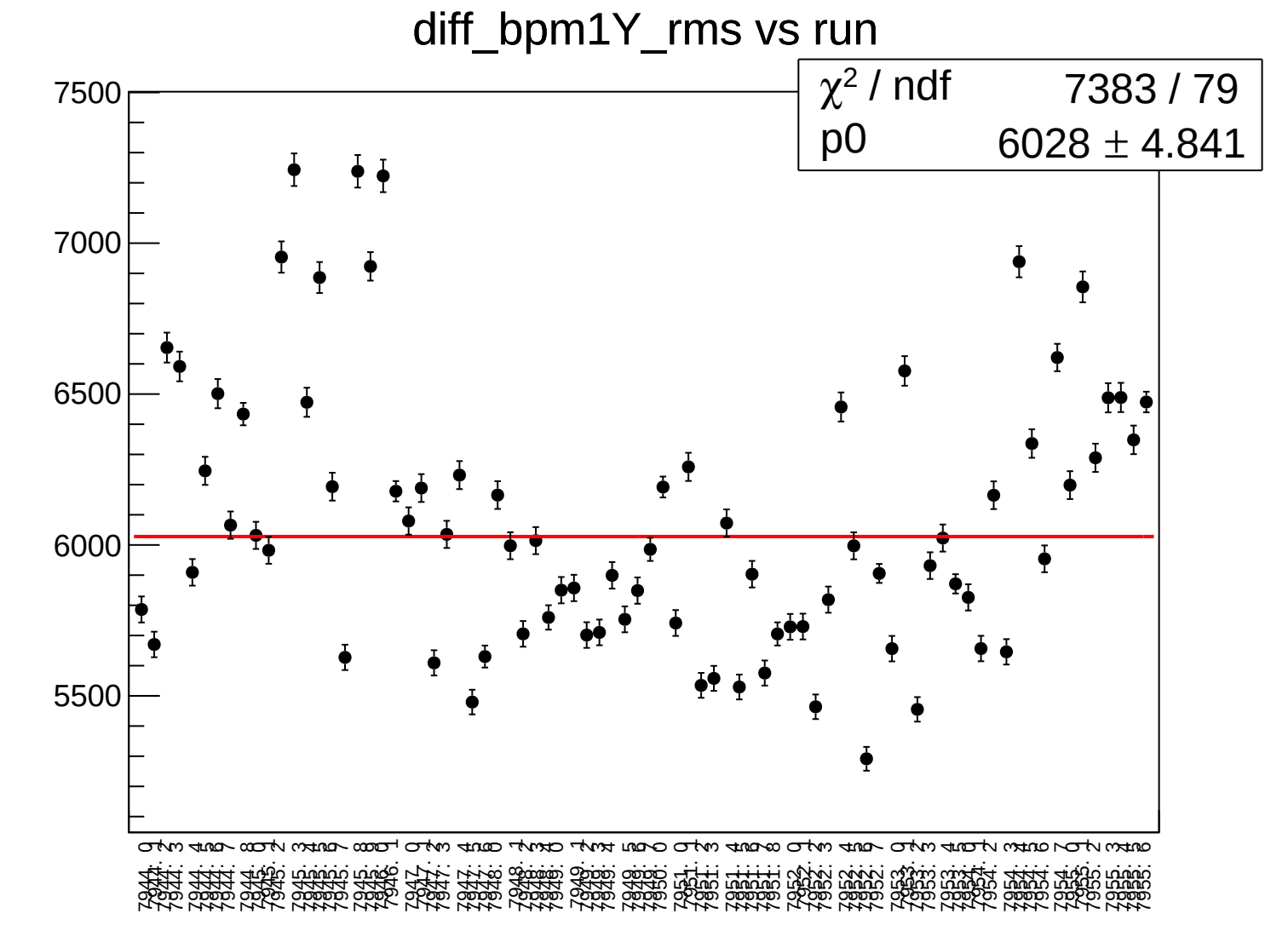

diff_bpm1X_mean vs run
χ² / ndf 83.09 / 79
p0 −11.25 ± 25.73
1000
500
0
−500
−1000
pull
Entries 80
Mean −381.3
Std Dev 417.8
3
2
1
0
−1
−2

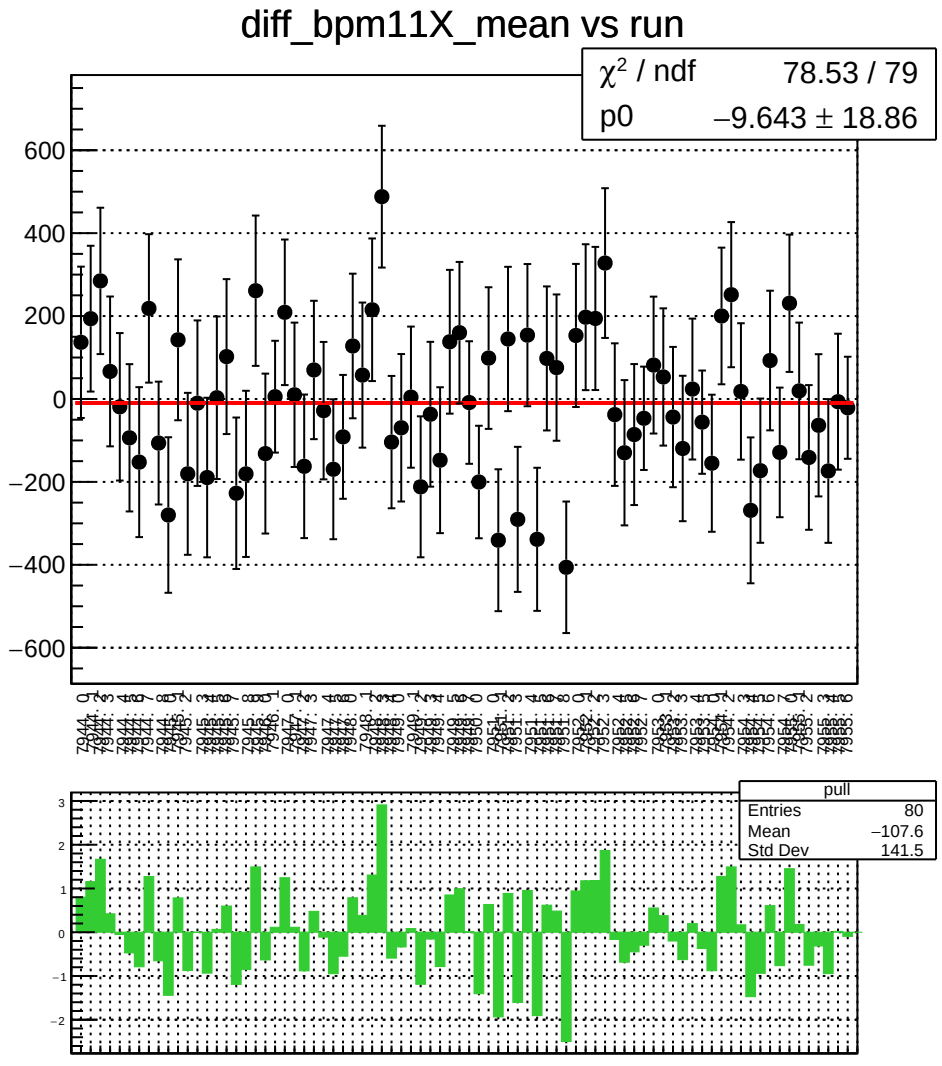

pull1D
Entries 80
Mean −0.009635
Std Dev 1.019
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

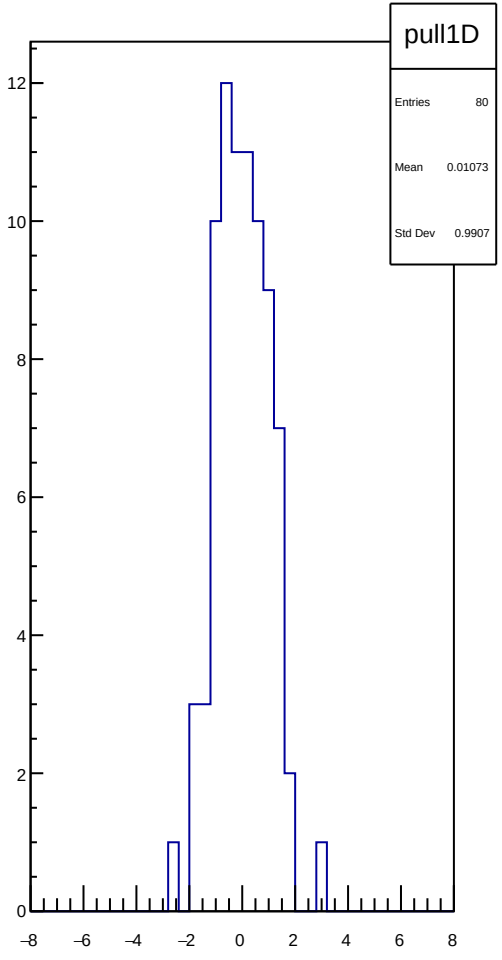

diff_bpm1X_rms vs run
χ² / ndf 3283 / 79
p0 2.269e+04 ± 18.19
26000
25000
24000
23000
22000
21000


diff_bpm1Y_mean vs run
χ² / ndf 62.97 / 79
p0 14.1 ± 6.846
200
100
0
−100
−200
pull
Entries 80
Mean −198.6
Std Dev 242.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

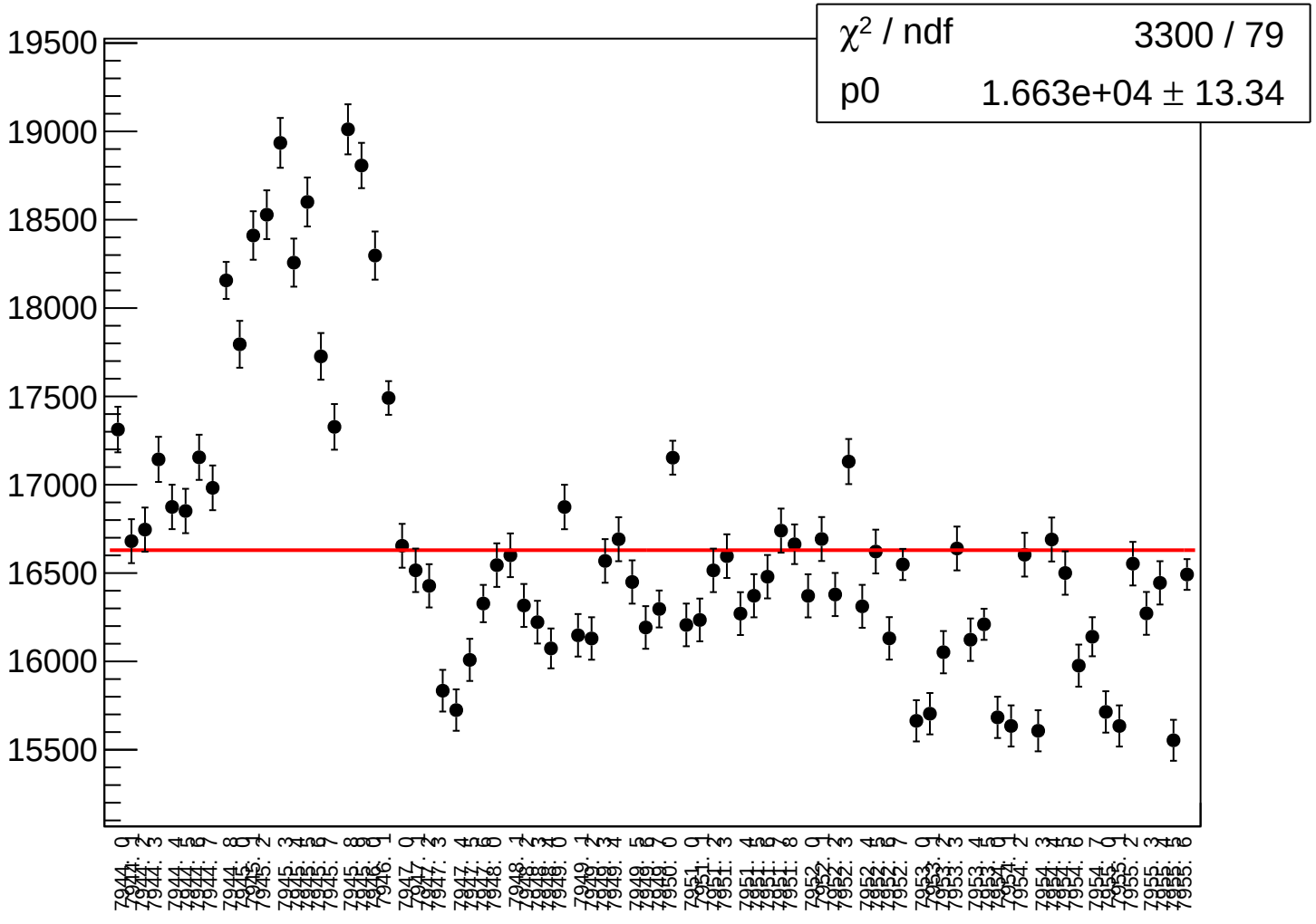

pull1D
Entries 80
Mean 0.01152
Std Dev 0.8872
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

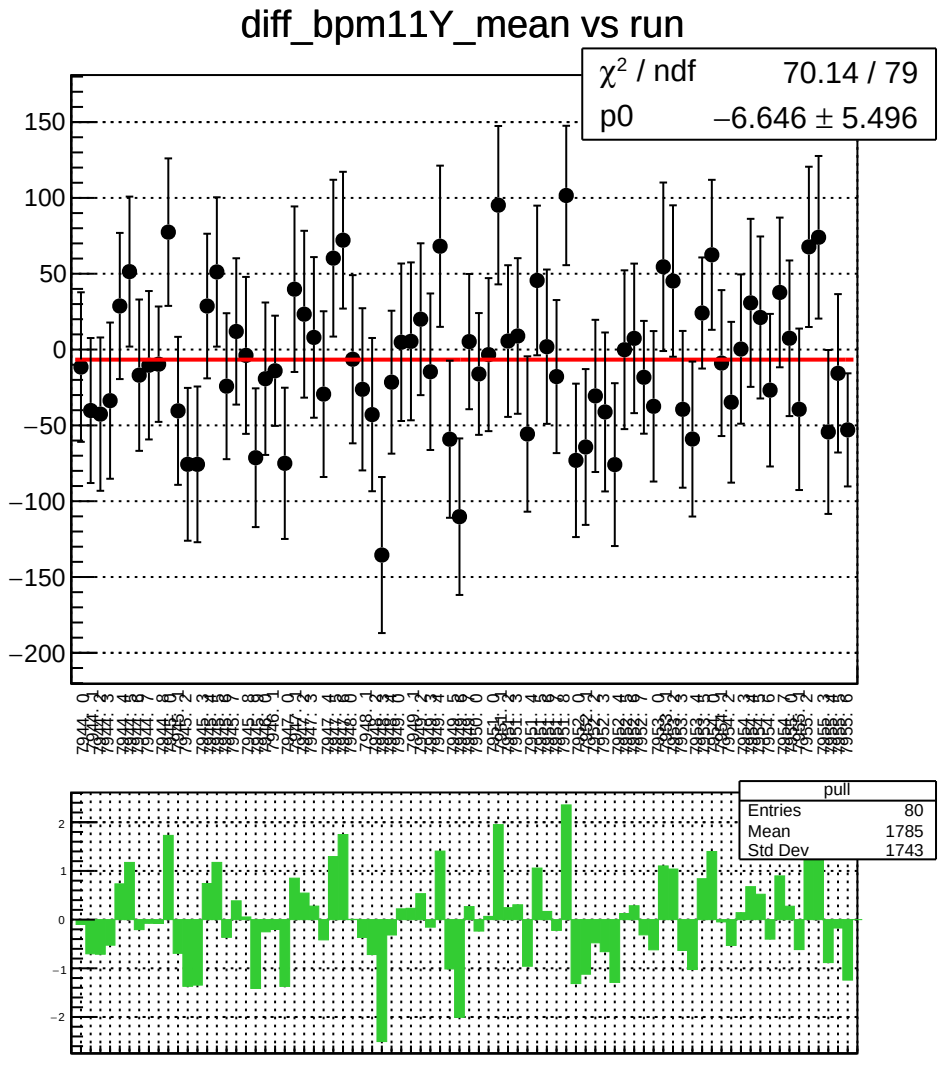

diff_bpm1Y_rms vs run
χ^2 / ndf 7383 / 79
p0 6028 ± 4.841
7500
7000
6500
6000
5500

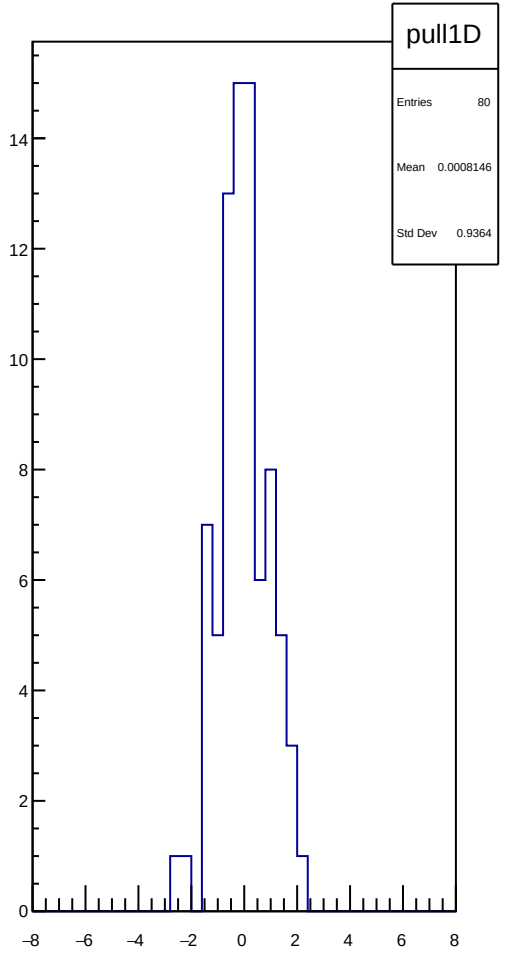

diff_bpm11X_mean vs run
χ² / ndf 78.53 / 79
p0 −9.643 ± 18.86
pull
Entries 80
Mean −107.6
Std Dev 141.5

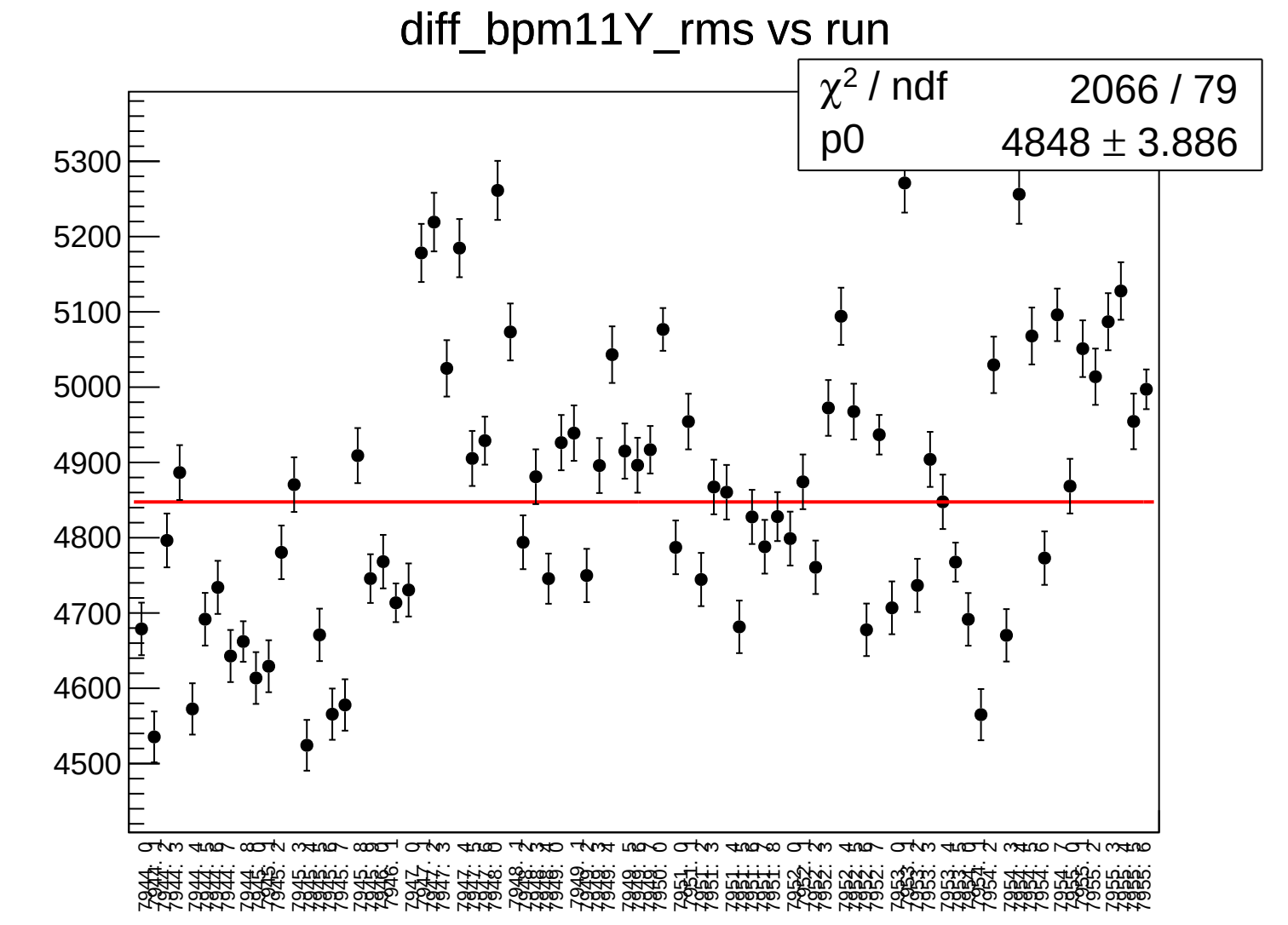

pull1D
Entries 80
Mean 0.01073
Std Dev 0.9907

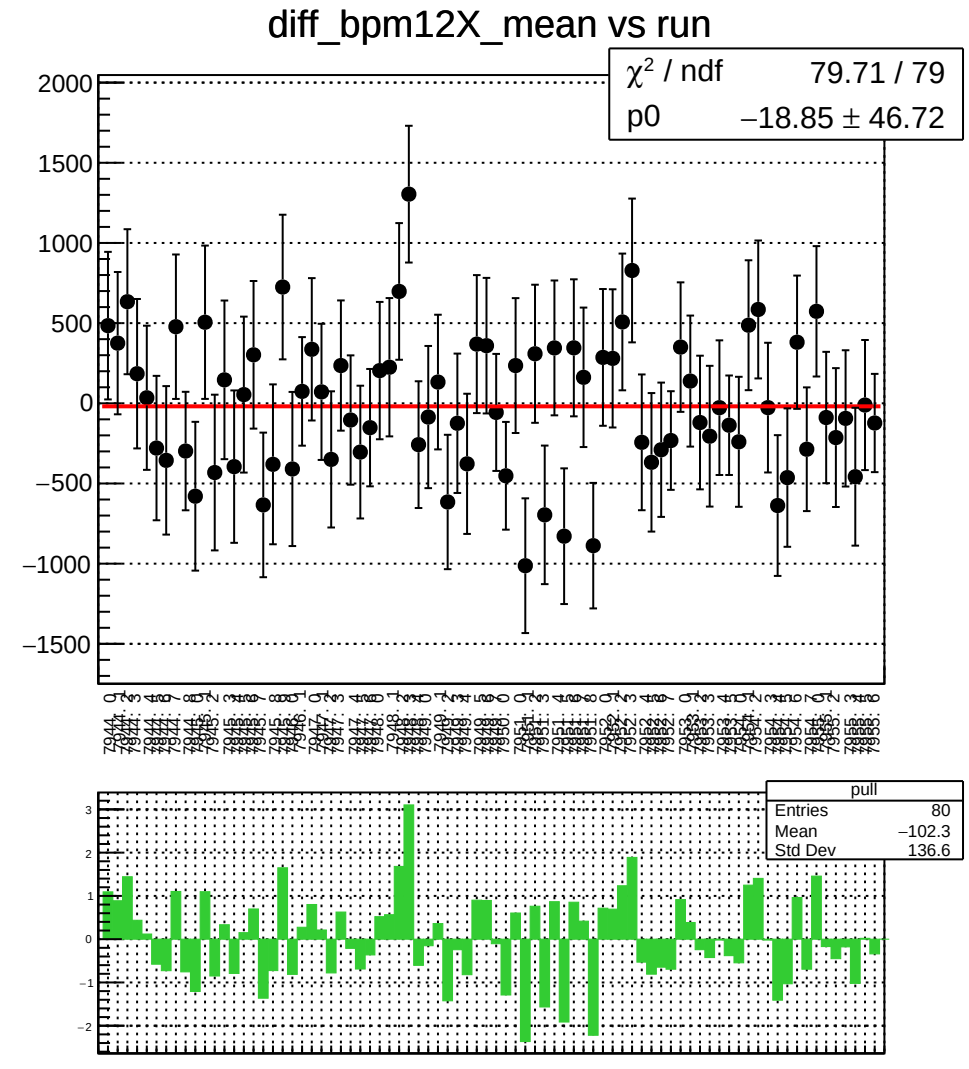
diff_bpm11X_rms vs run

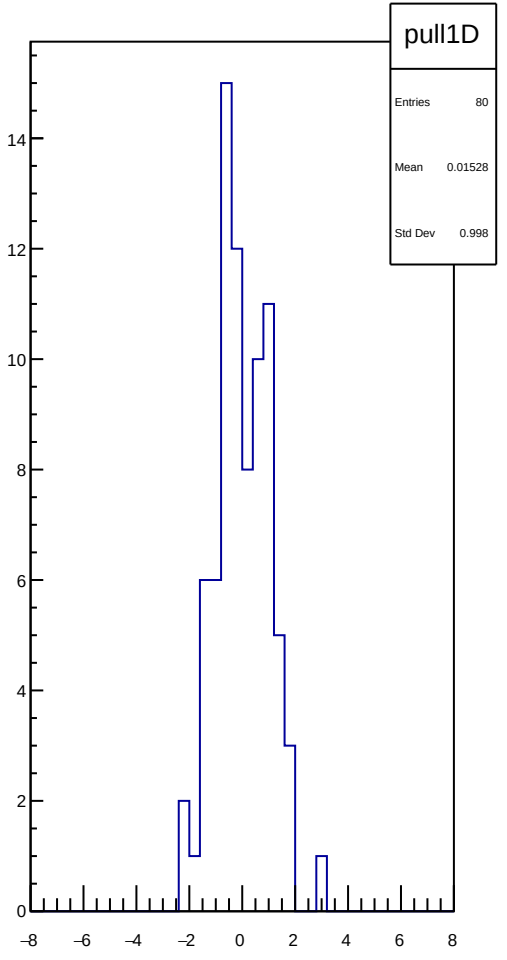


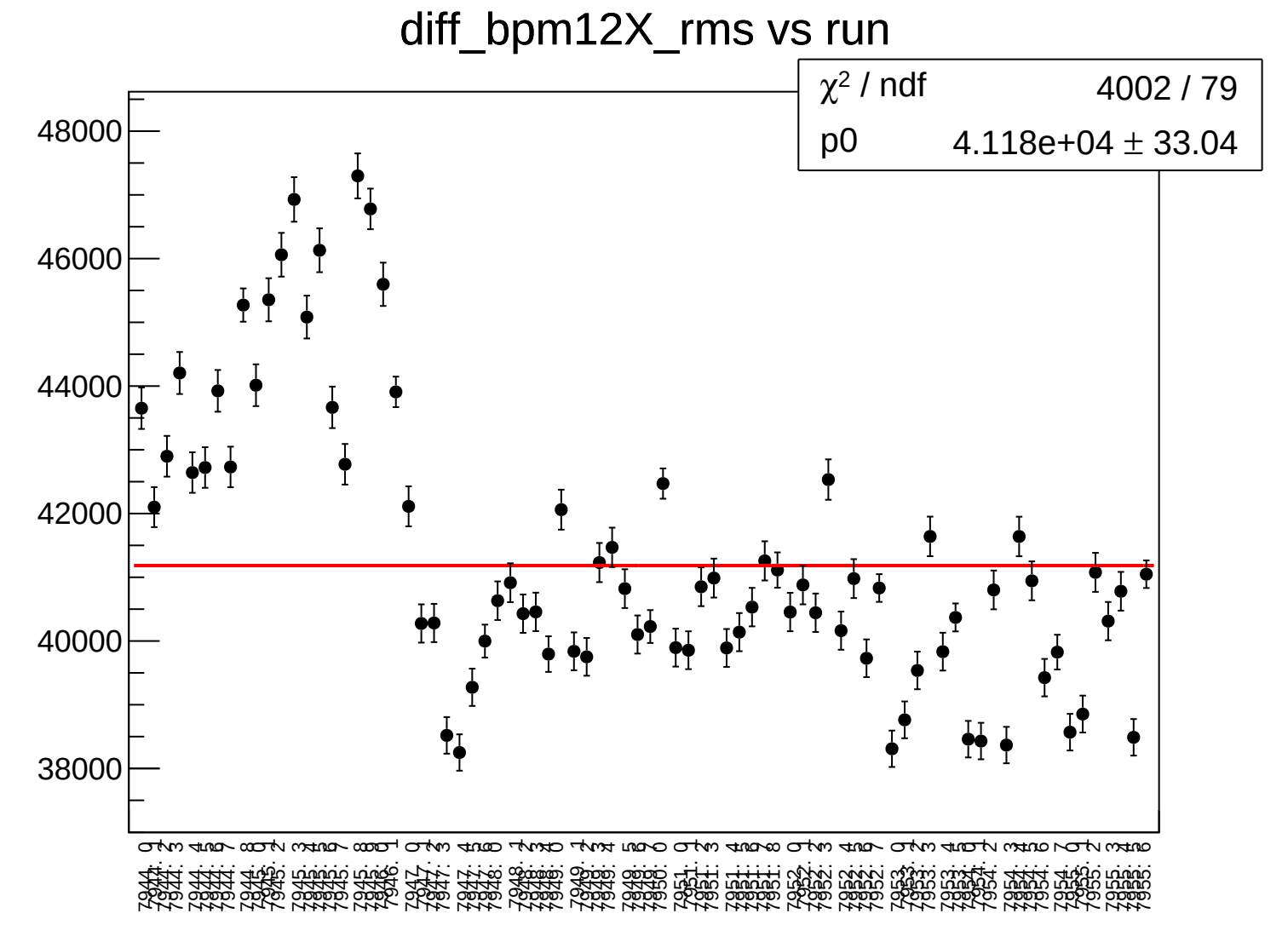

diff_bpm11Y_mean vs run
χ² / ndf 70.14 / 79
p0 −6.646 ± 5.496
150
100
50
0
−50
−100
−150
−200
pull
Entries 80
Mean 1785
Std Dev 1743
2
1
0
−1
−2

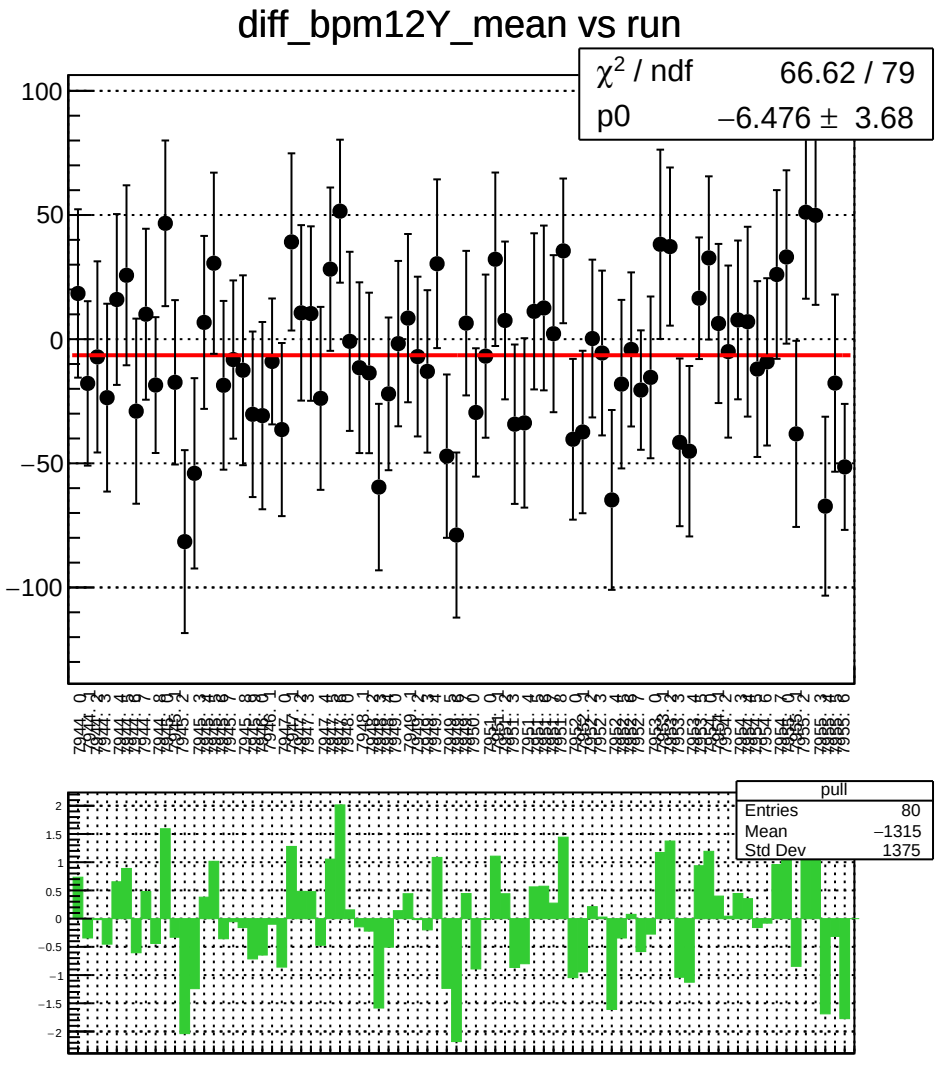

pull1D
Entries 80
Mean 0.0008146
Std Dev 0.9364
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

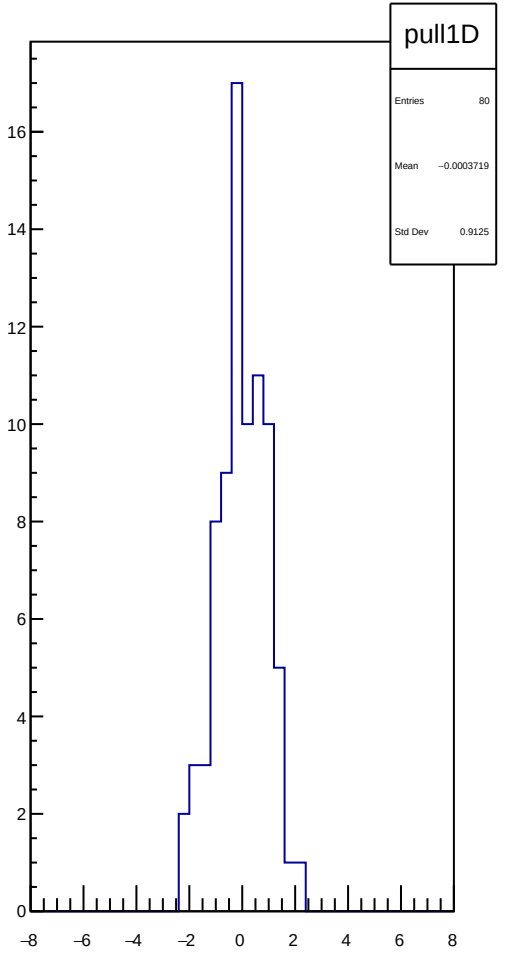

diff_bpm11Y_rms vs run
χ^2 / ndf 2066 / 79
p0 4848 ± 3.886
5300
5200
5100
5000
4900
4800
4700
4600
4500

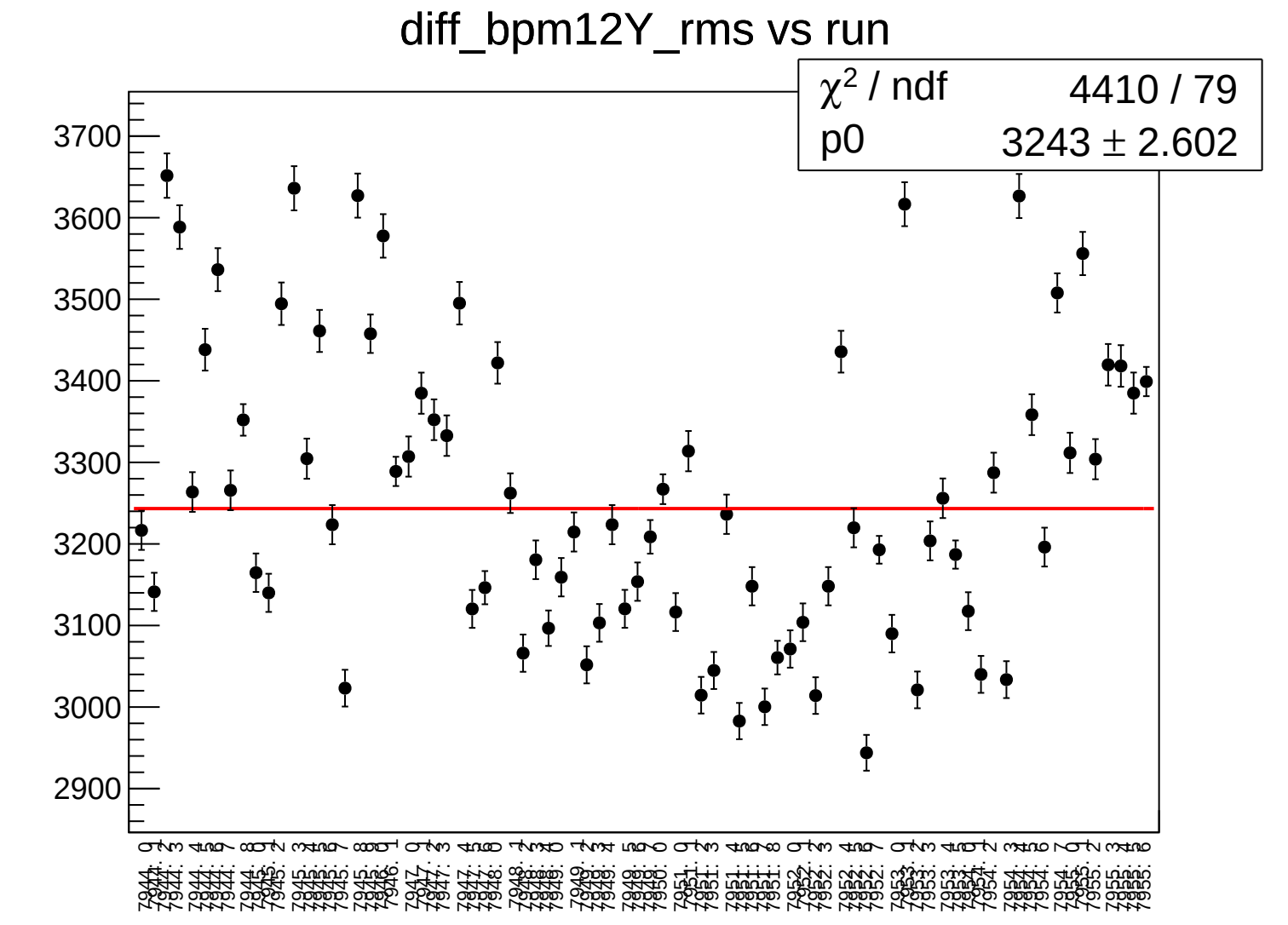

diff_bpm12X_mean vs run
χ² / ndf 79.71 / 79
p0 −18.85 ± 46.72
pull
Entries 80
Mean −102.3
Std Dev 136.6

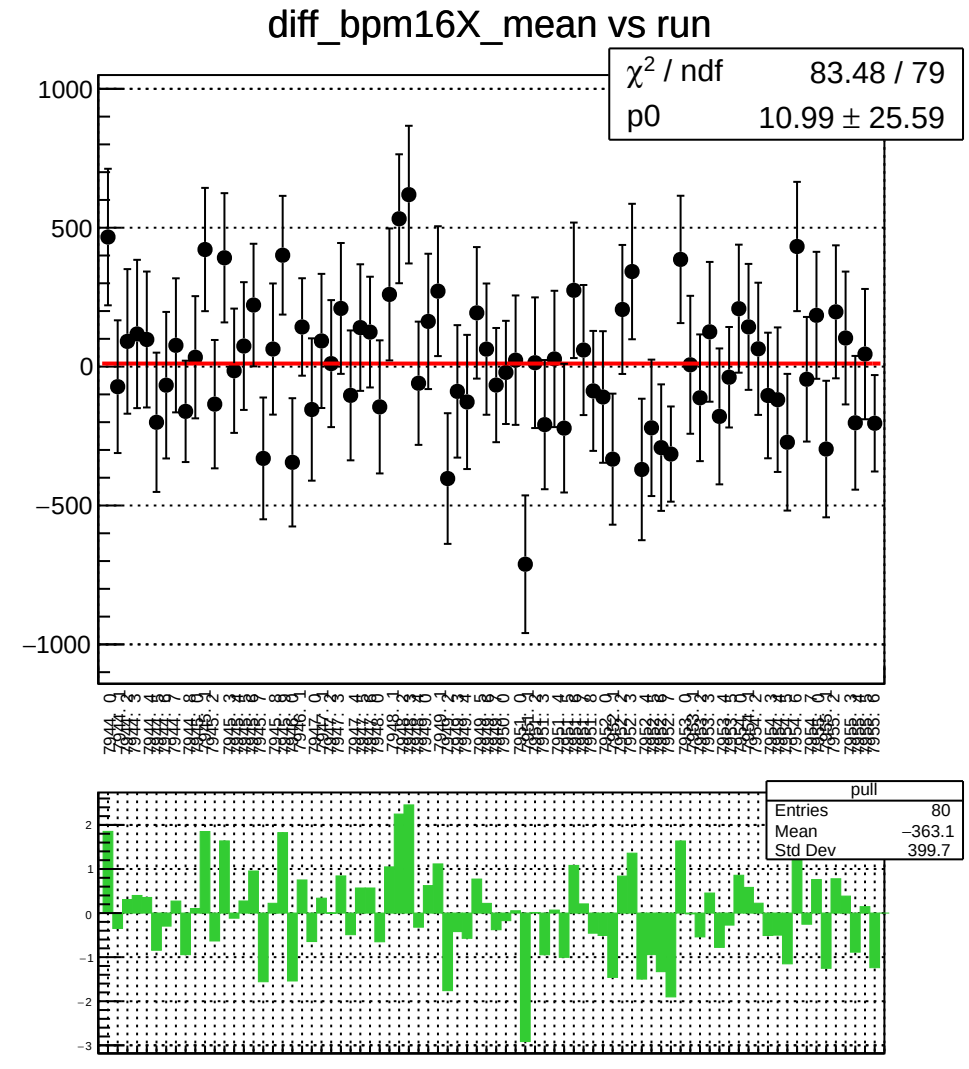

pull1D
Entries 80
Mean 0.01528
Std Dev 0.998

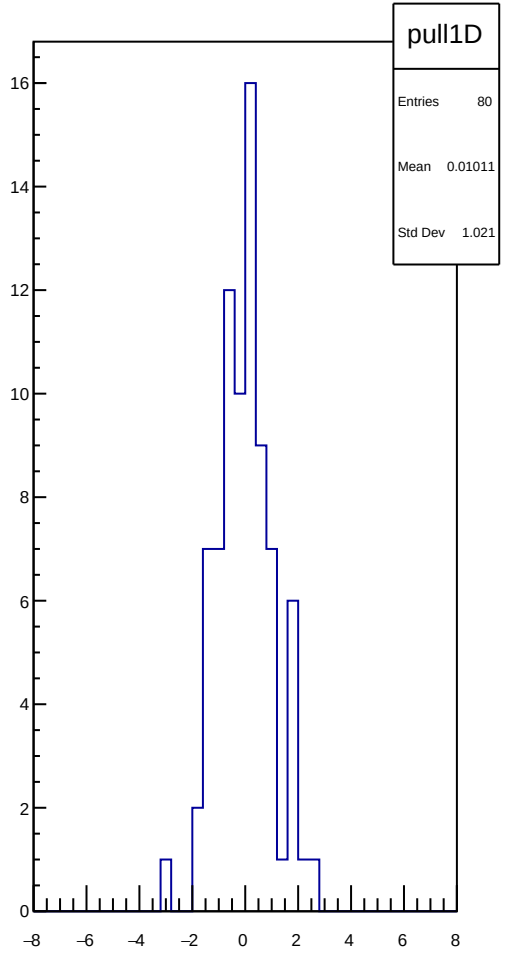

diff_bpm12X_rms vs run
χ² / ndf 4002 / 79
p0 4.118e+04 ± 33.04
48000
46000
44000
42000
40000
38000

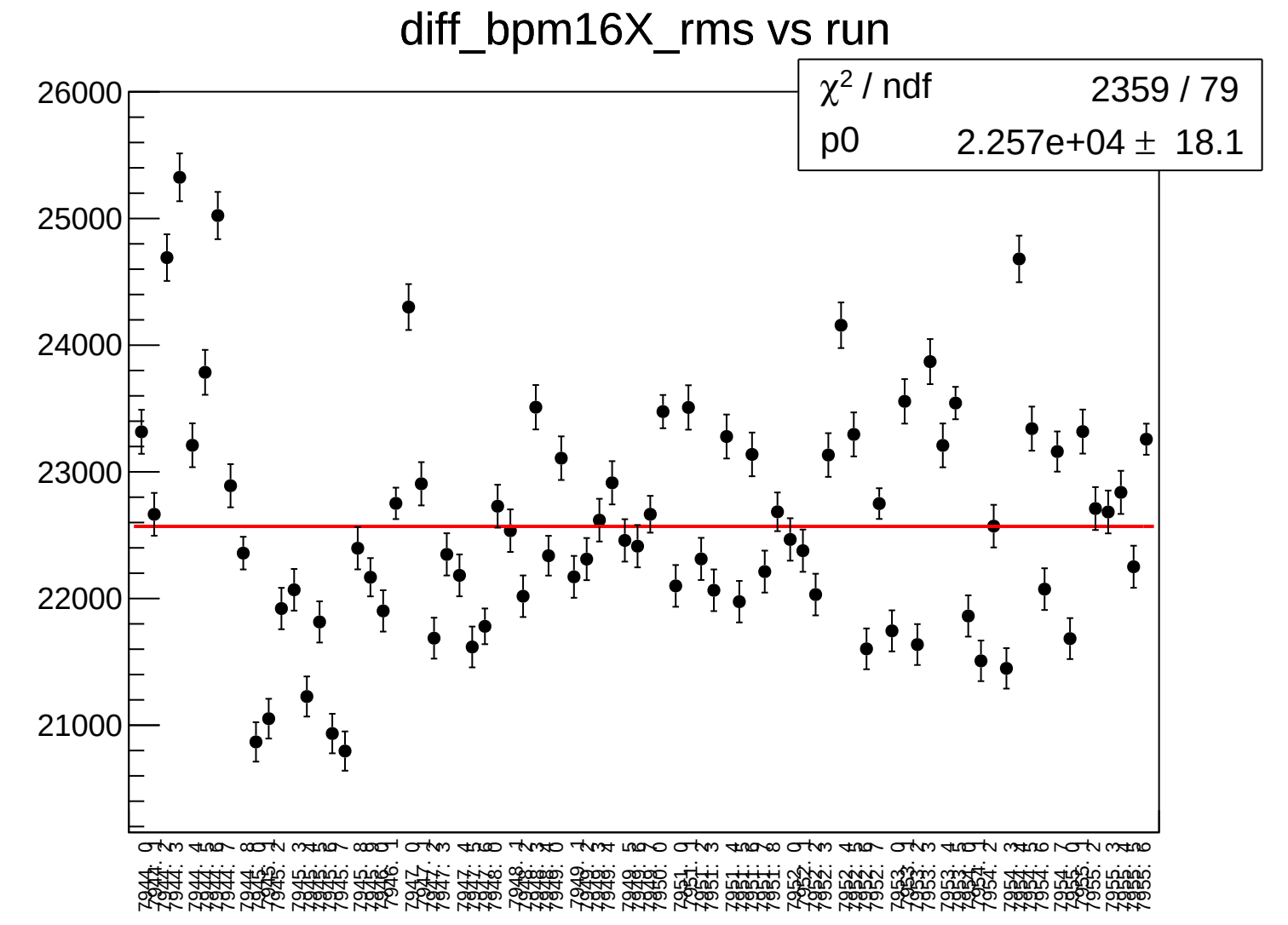

diff_bpm12Y_mean vs run
χ² / ndf 66.62 / 79
p0 −6.476 ± 3.68
pull
Entries 80
Mean −1315
Std Dev 1375

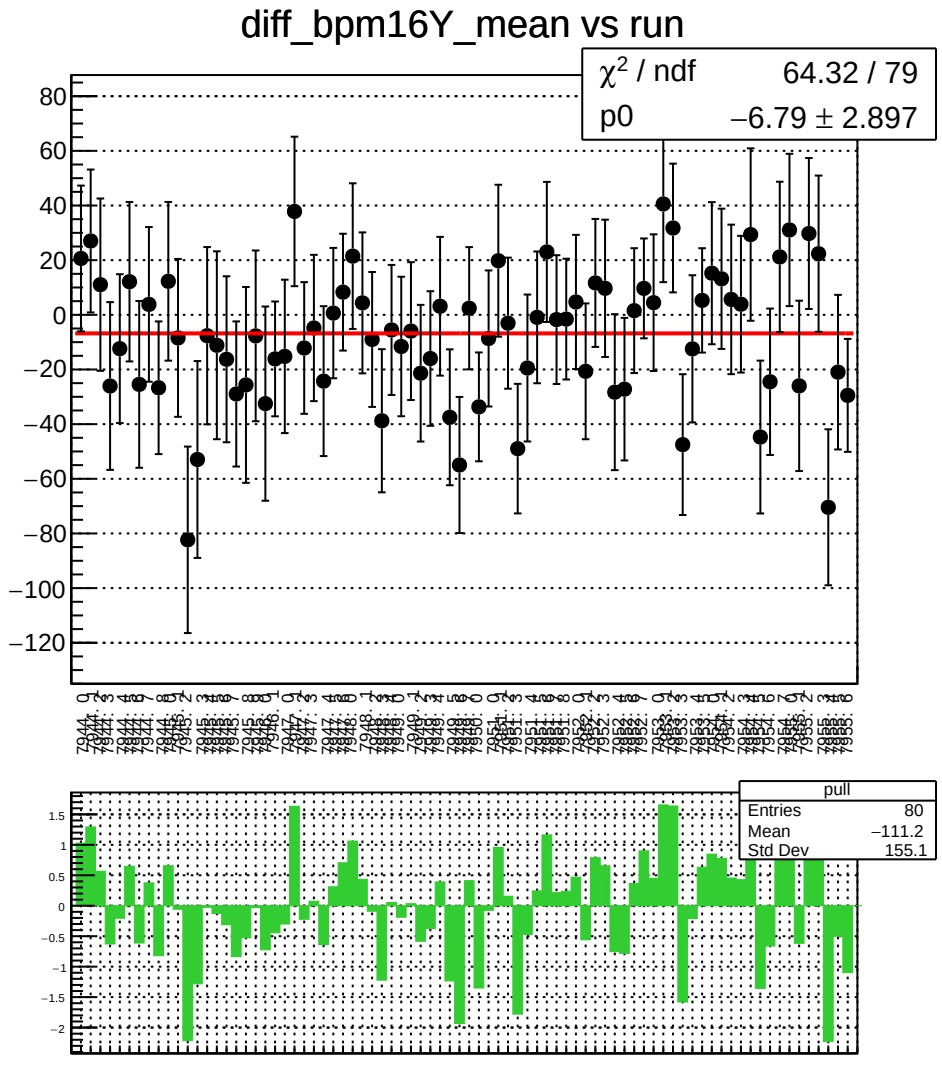

pull1D
Entries 80
Mean −0.0003719
Std Dev 0.9125

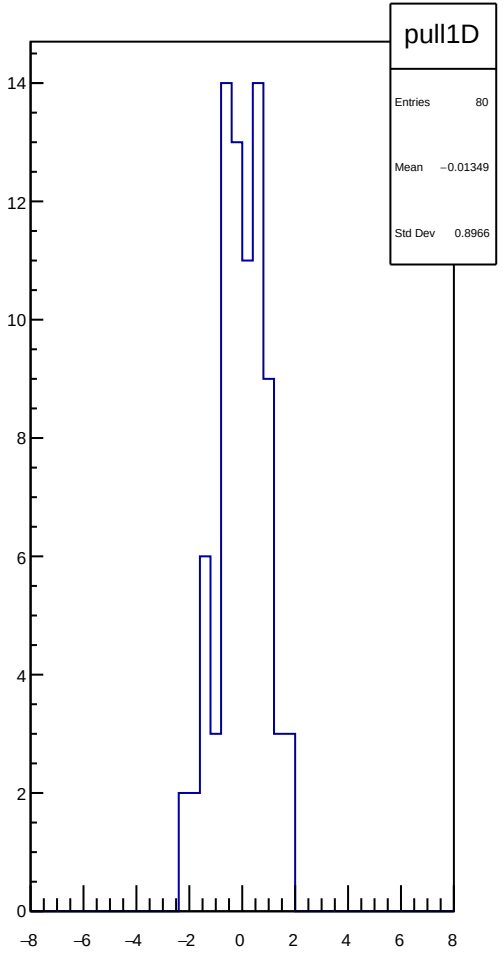

diff_bpm12Y_rms vs run
χ² / ndf 4410 / 79
p0 3243 ± 2.602
3700
3600
3500
3400
3300
3200
3100
3000
2900

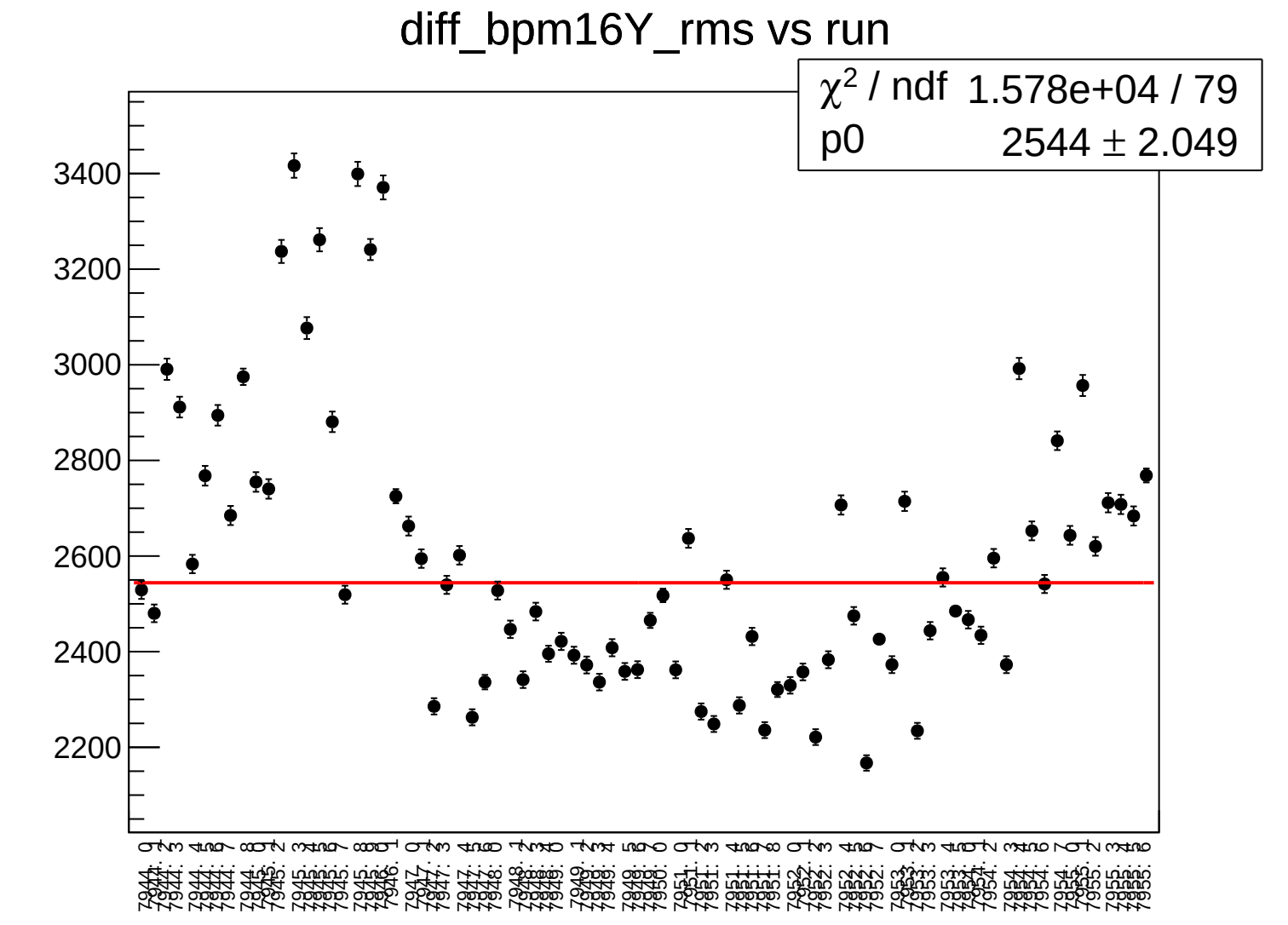

diff_bpm16X_mean vs run
χ² / ndf 83.48 / 79
p0 10.99 ± 25.59
1000
500
0
−500
−1000
pull
Entries 80
Mean −363.1
Std Dev 399.7
2
1
0
−1
−2
−3

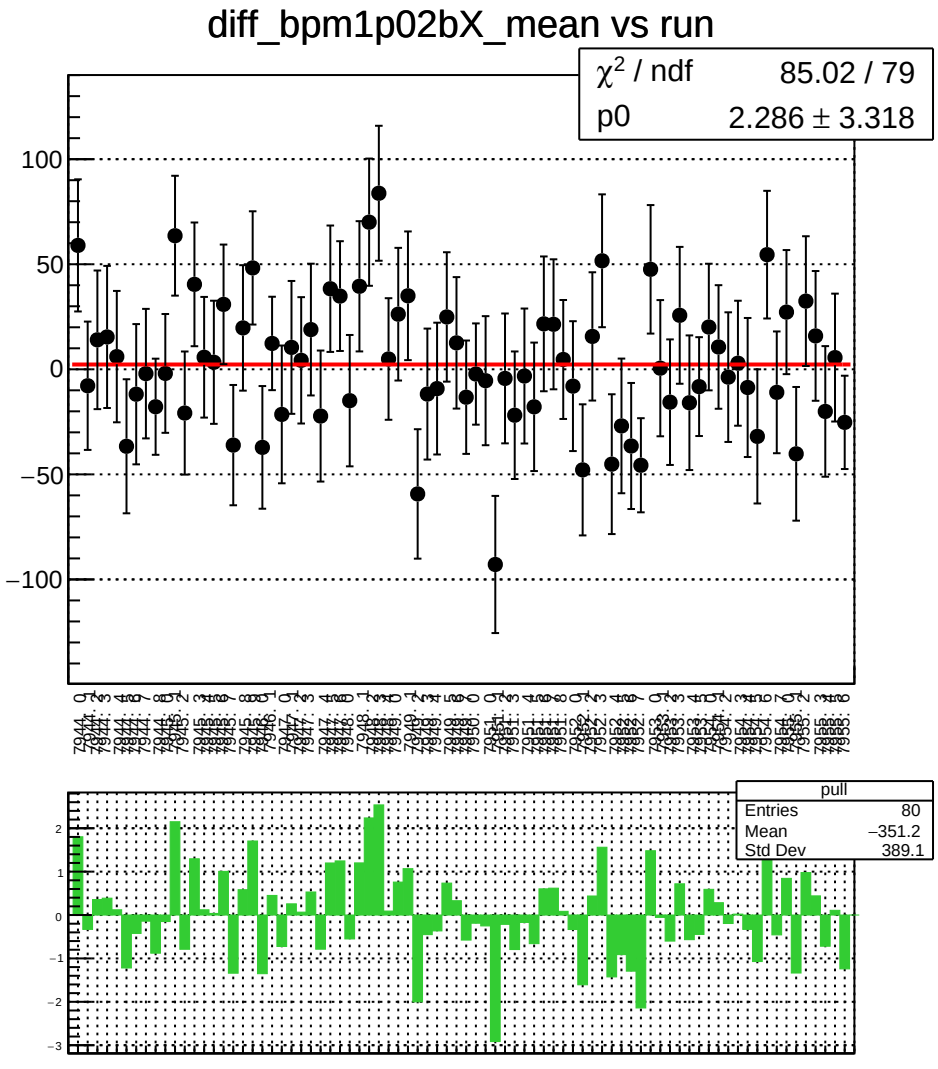

pull1D
Entries 80
Mean 0.01011
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

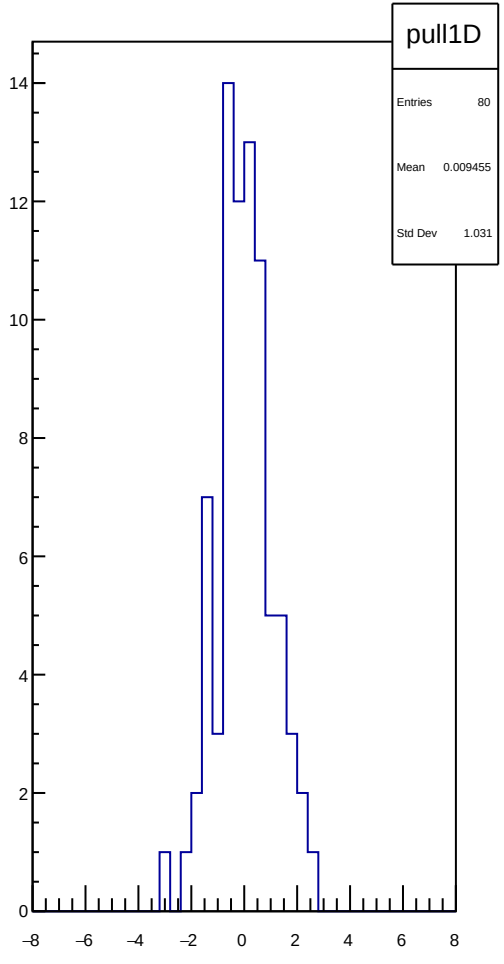

diff_bpm16X_rms vs run
χ² / ndf 2359 / 79
p0 2.257e+04 ± 18.1
26000
25000
24000
23000
22000
21000

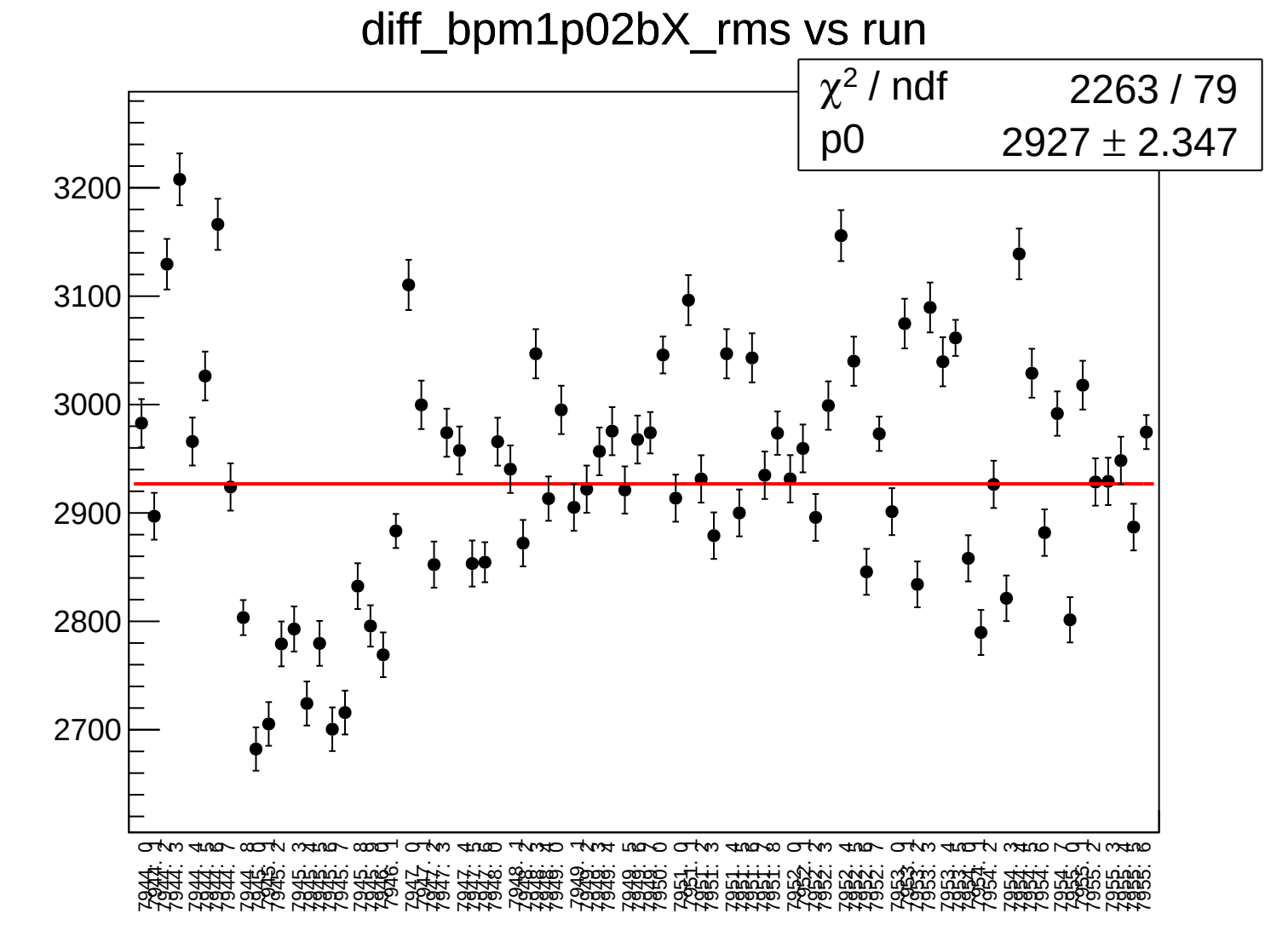

diff_bpm16Y_mean vs run
χ² / ndf 64.32 / 79
p0 −6.79 ± 2.897
pull
Entries 80
Mean −111.2
Std Dev 155.1

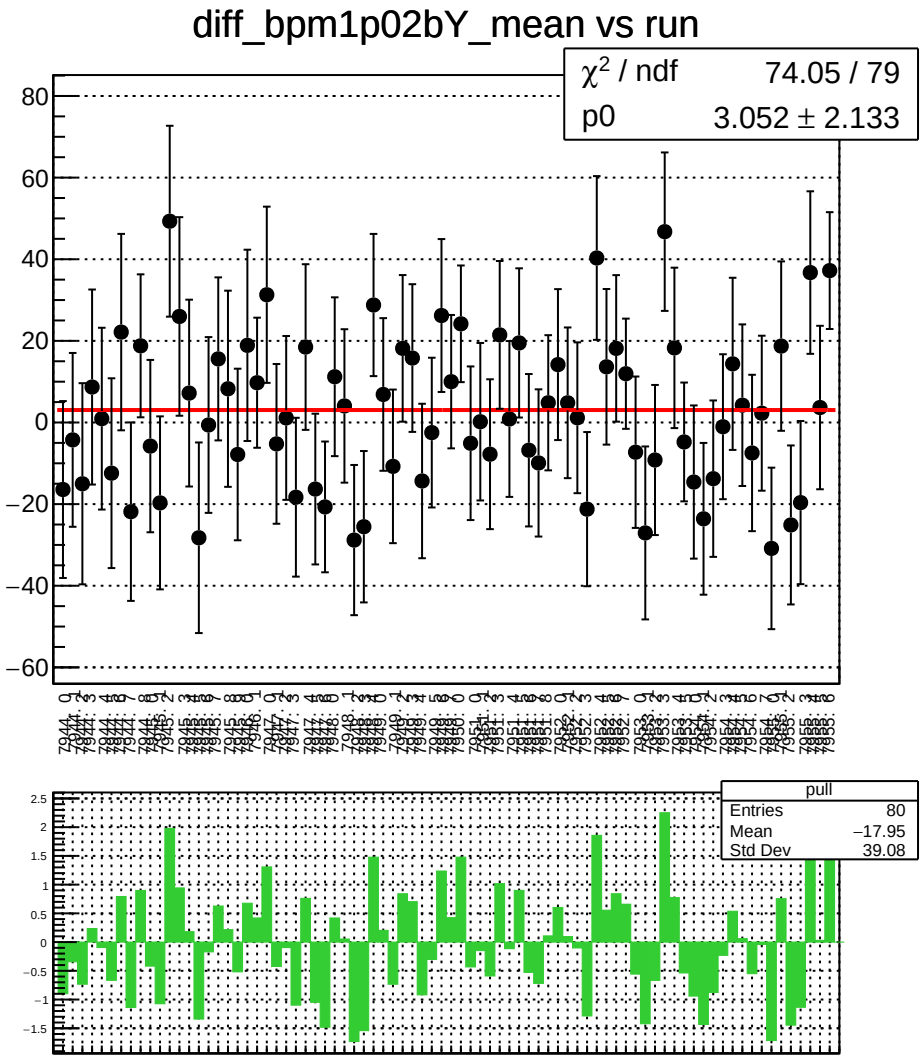

pull1D
Entries 80
Mean −0.01349
Std Dev 0.8966

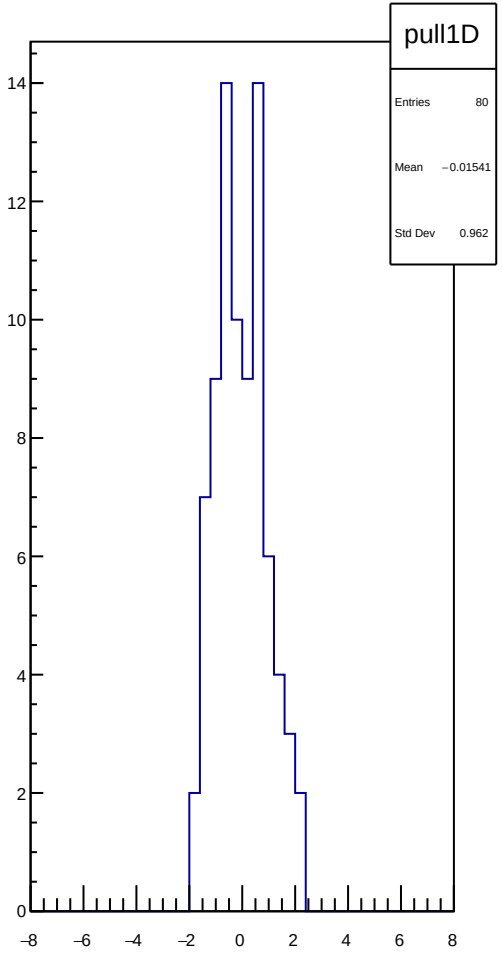

diff_bpm16Y_rms vs run
χ² / ndf 1.578e+04 / 79
p0 2544 ± 2.049
3400
3200
3000
2800
2600
2400
2200

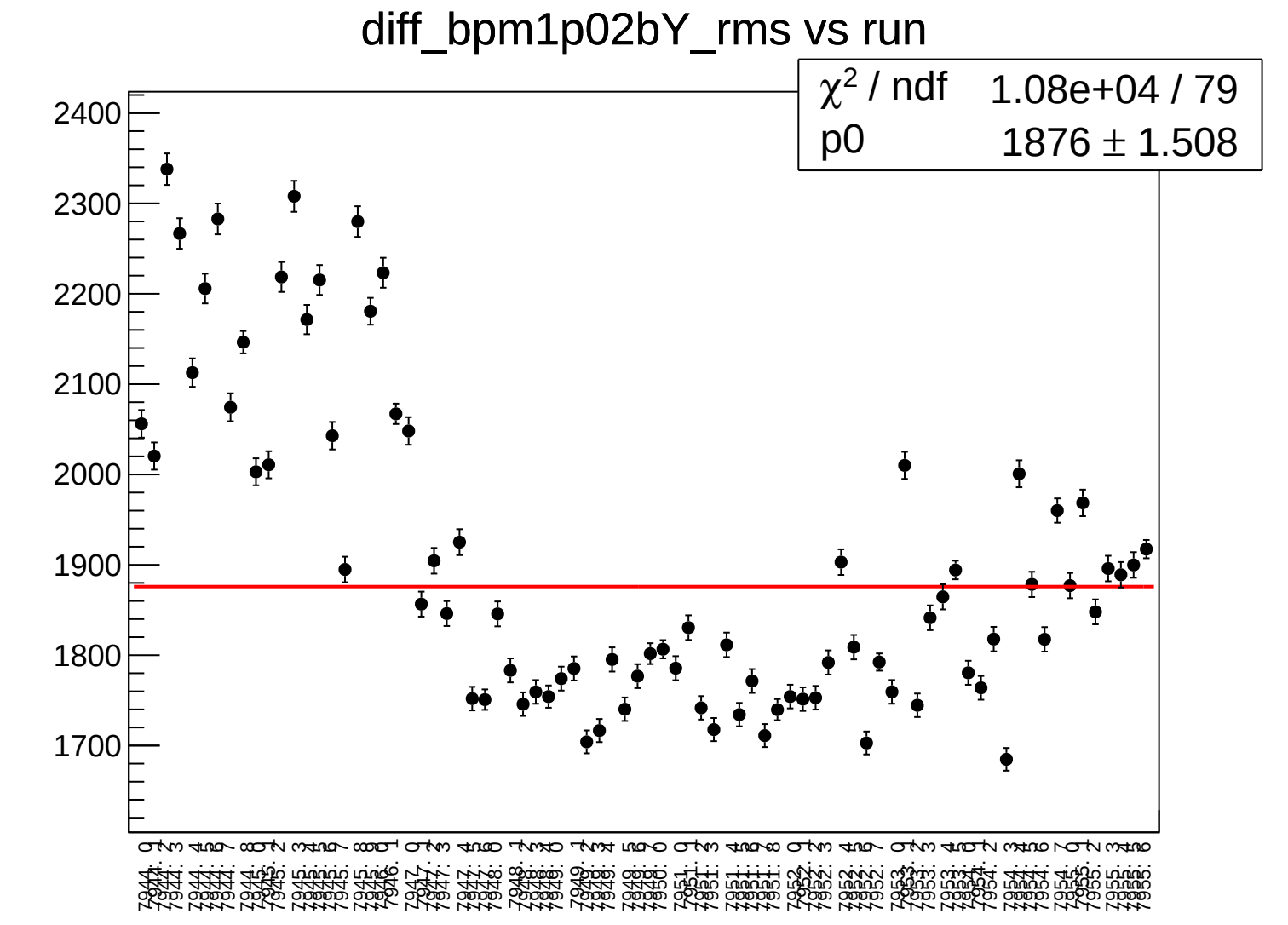

diff_bpm1p02bX_mean vs run
χ² / ndf 85.02 / 79
p0 2.286 ± 3.318
100
50
0
−50
−100
pull
Entries 80
Mean −351.2
Std Dev 389.1
2
1
0
−1
−2
−3

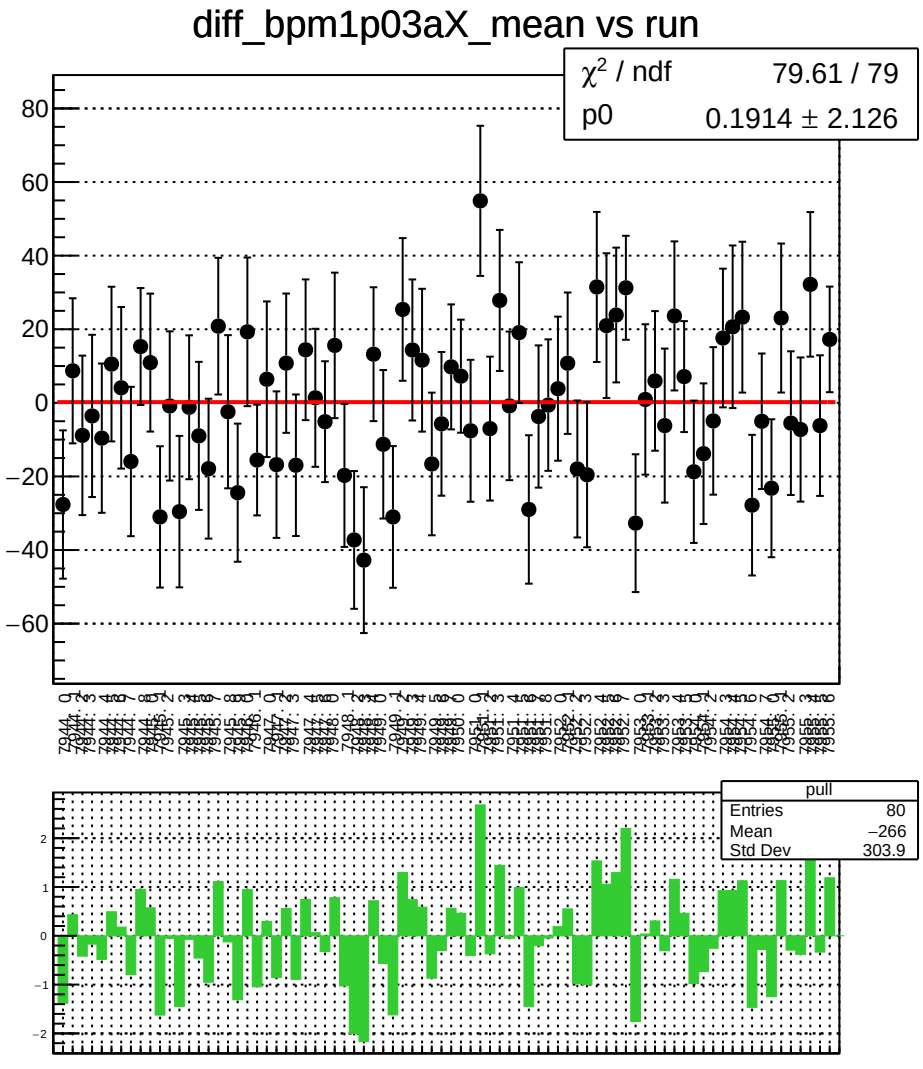

pull1D
Entries 80
Mean 0.009455
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

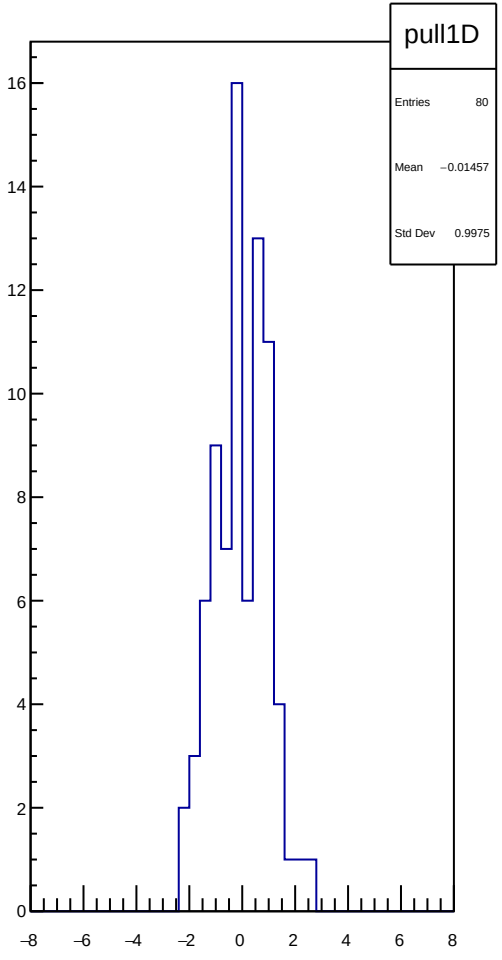

diff_bpm1p02bX_rms vs run
χ² / ndf 2263 / 79
p0 2927 ± 2.347
3200
3100
3000
2900
2800
2700

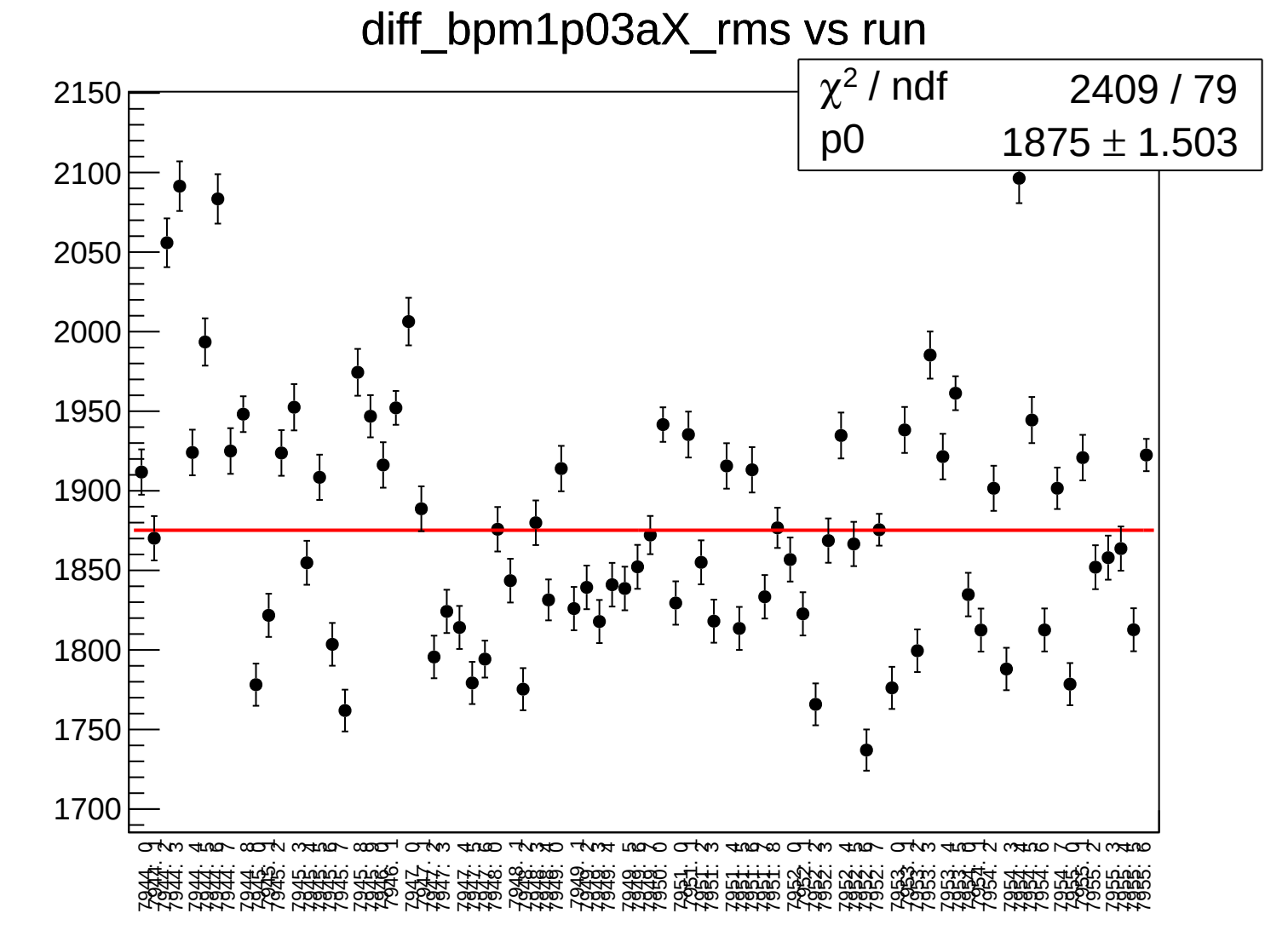

diff_bpm1p02bY_mean vs run
χ² / ndf 74.05 / 79
p0 3.052 ± 2.133
pull
Entries 80
Mean −17.95
Std Dev 39.08

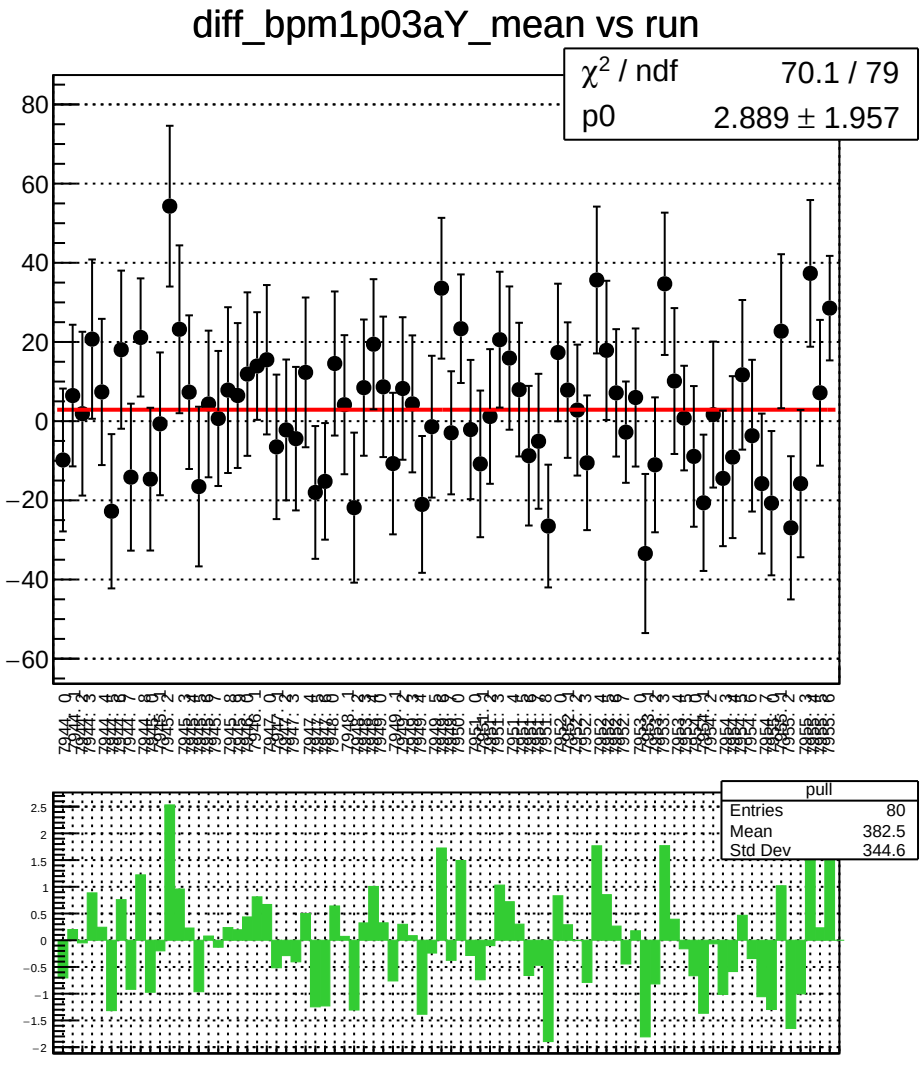

pull1D
Entries 80
Mean −0.01541
Std Dev 0.962

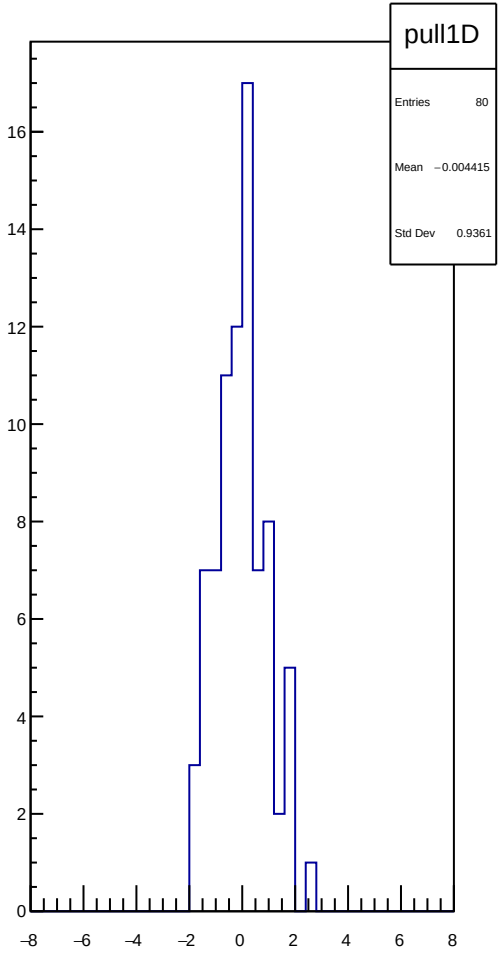

diff_bpm1p02bY_rms vs run
χ² / ndf 1.08e+04 / 79
p0 1876 ± 1.508
2400
2300
2200
2100
2000
1900
1800
1700

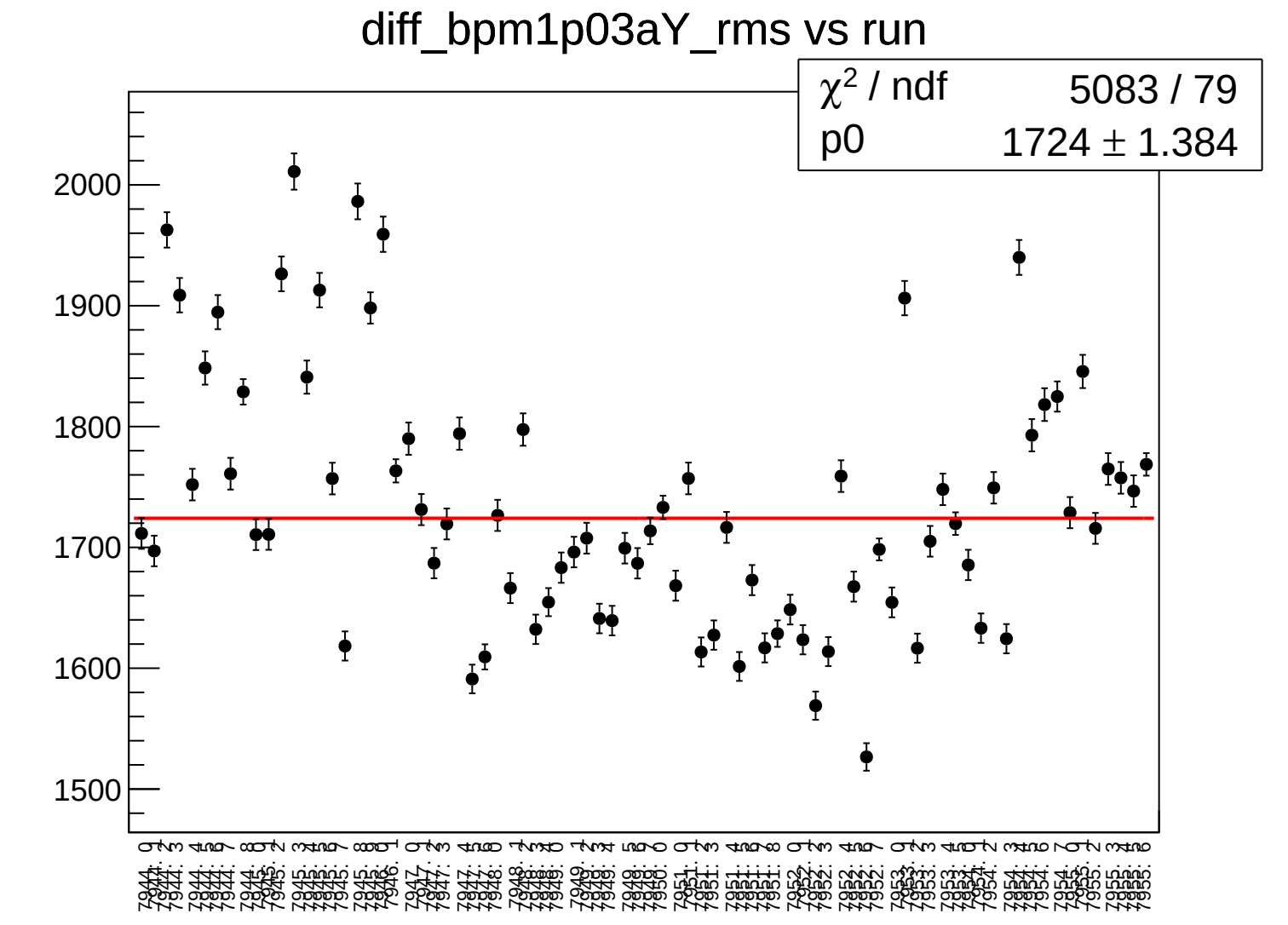

diff_bpm1p03aX_mean vs run
χ² / ndf 79.61 / 79
p0 0.1914 ± 2.126
pull
Entries 80
Mean −266
Std Dev 303.9

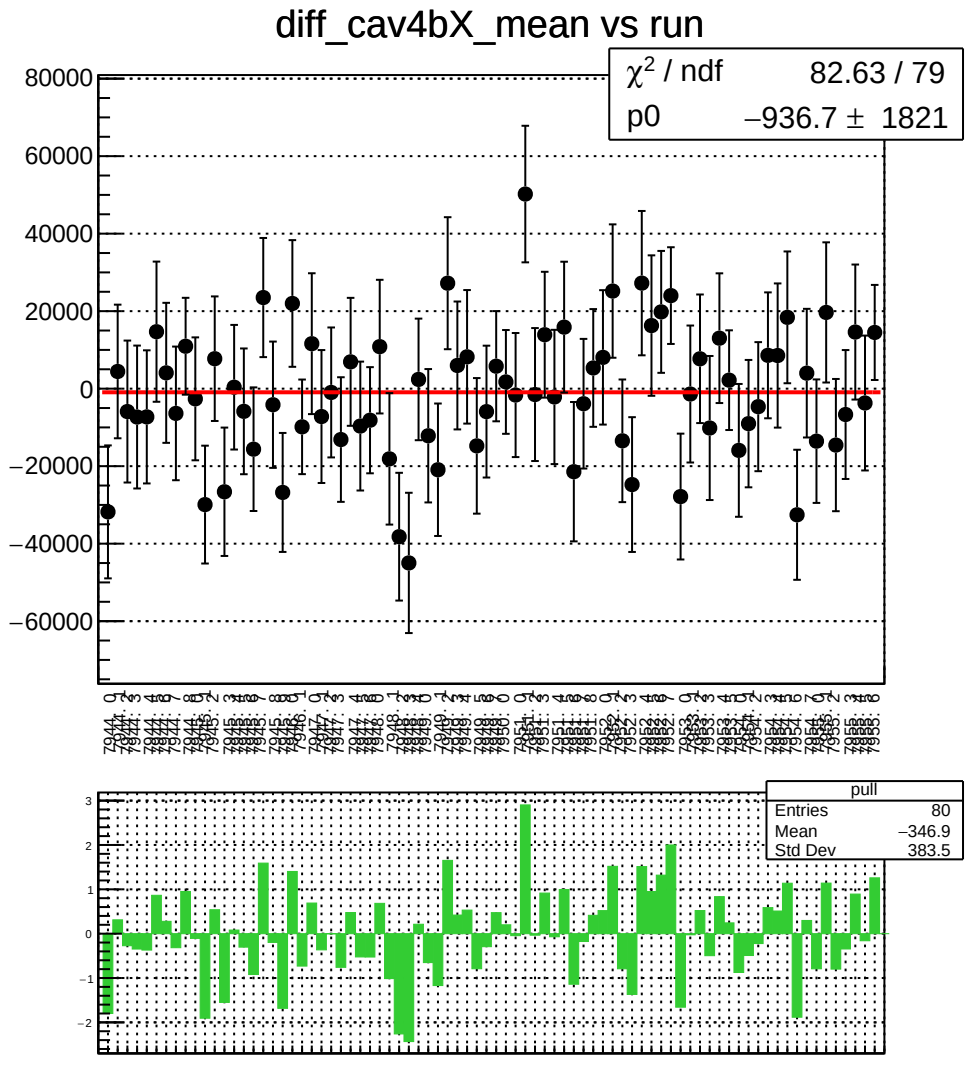

pull1D
Entries 80
Mean −0.01457
Std Dev 0.9975

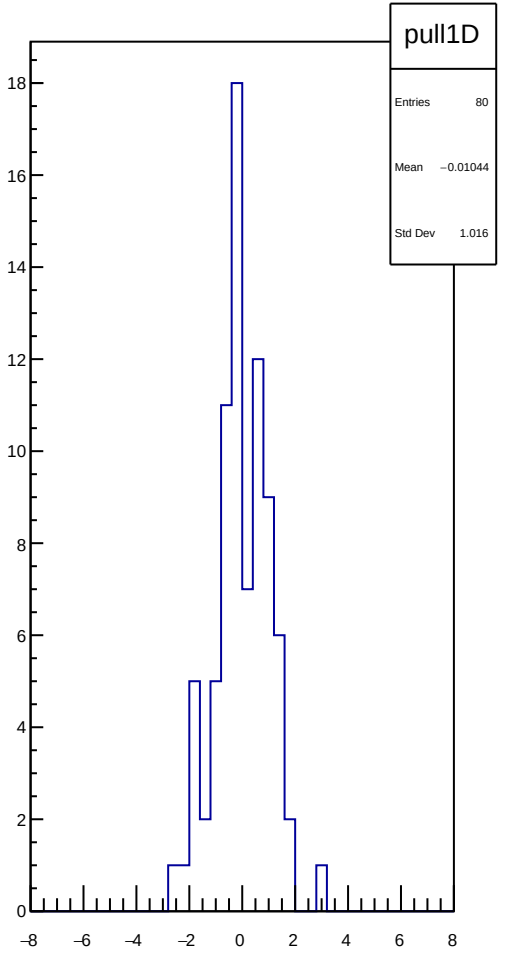

diff_bpm1p03aX_rms vs run
χ² / ndf 2409 / 79
p0 1875 ± 1.503
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

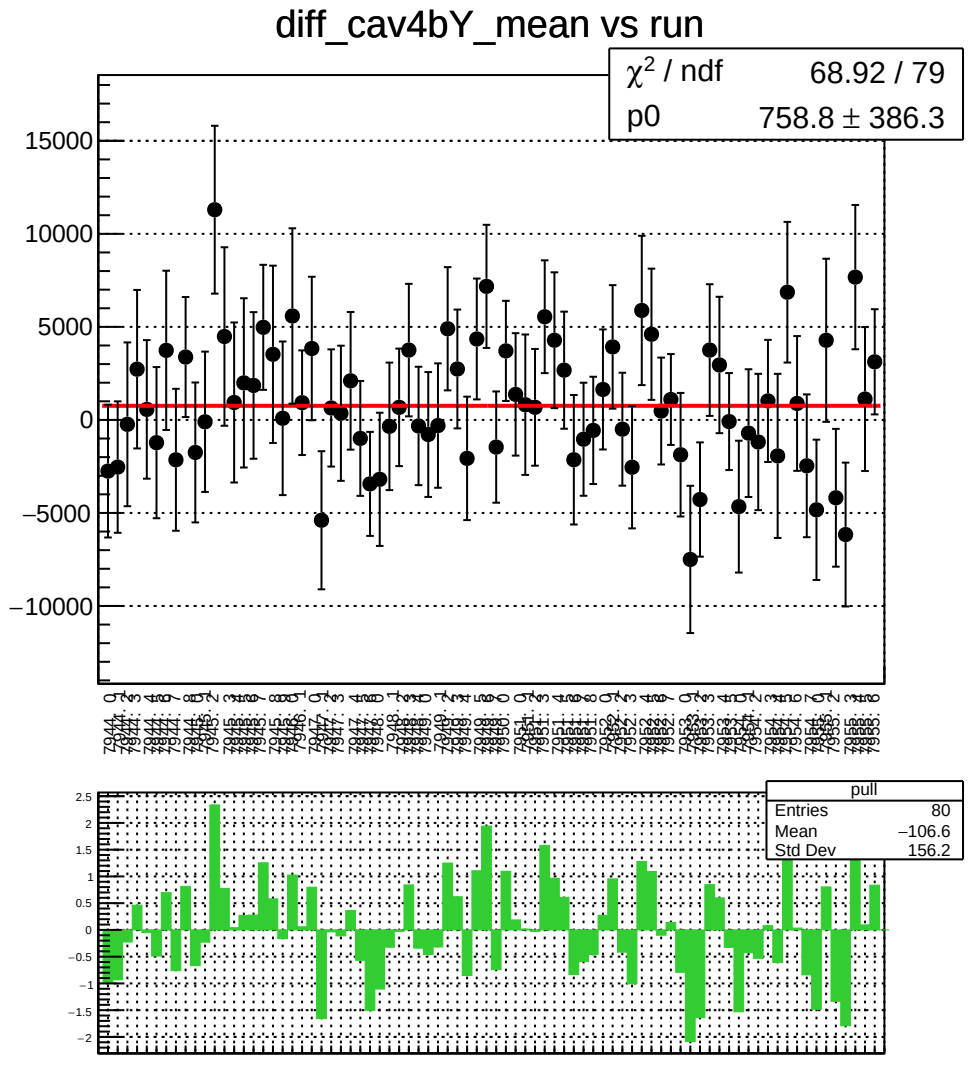

diff_bpm1p03aY_mean vs run
χ^2 / ndf 70.1 / 79
p0 2.889 ± 1.957
pull
Entries 80
Mean 382.5
Std Dev 344.6

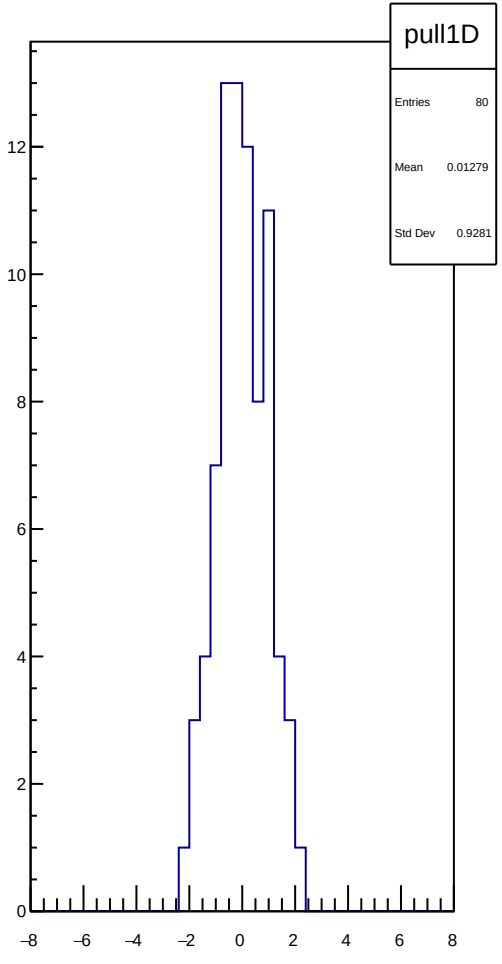

pull1D
Entries 80
Mean −0.004415
Std Dev 0.9361

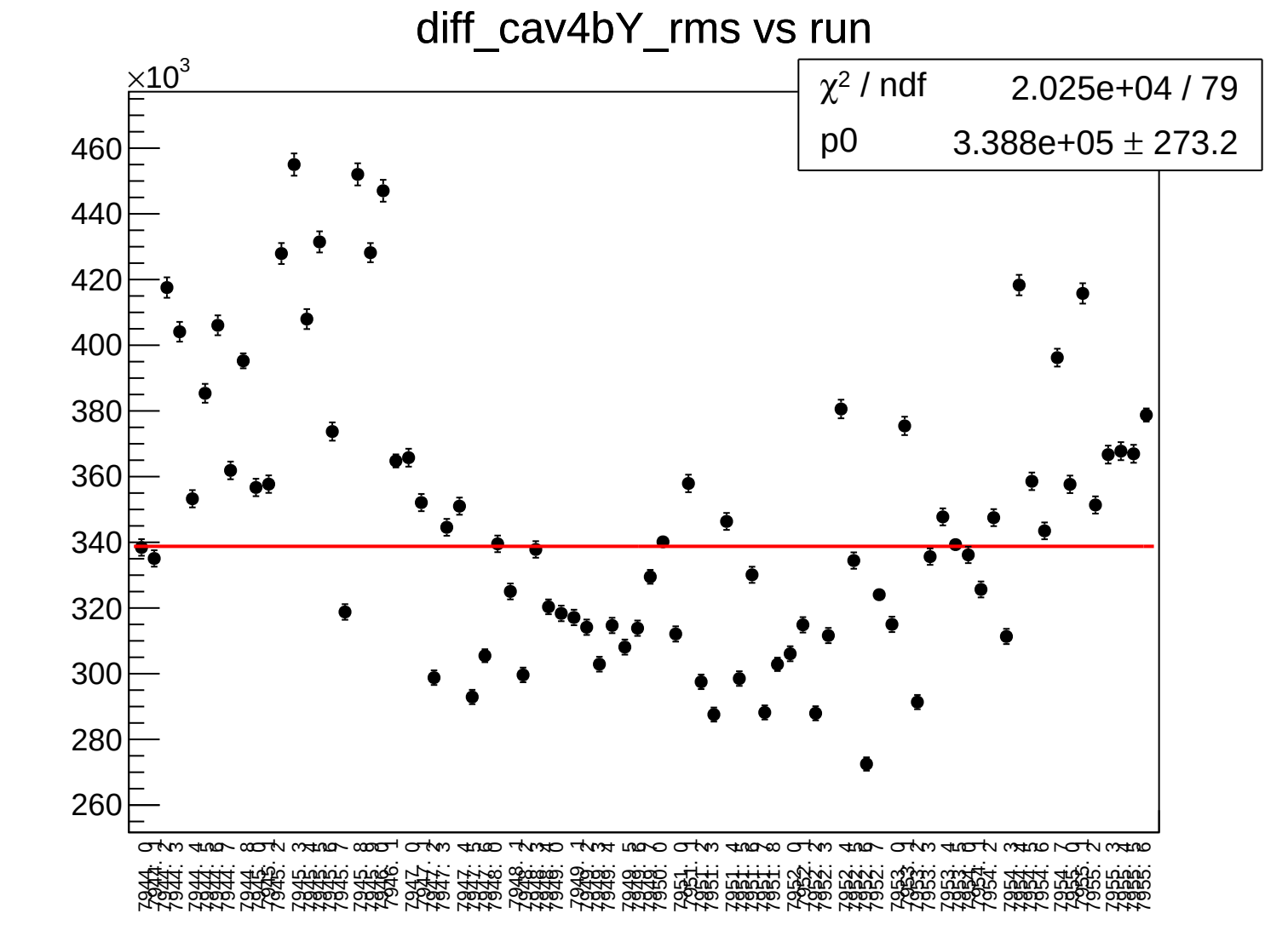

diff_bpm1p03aY_rms vs run
χ² / ndf 5083 / 79
p0 1724 ± 1.384
2000
1900
1800
1700
1600
1500

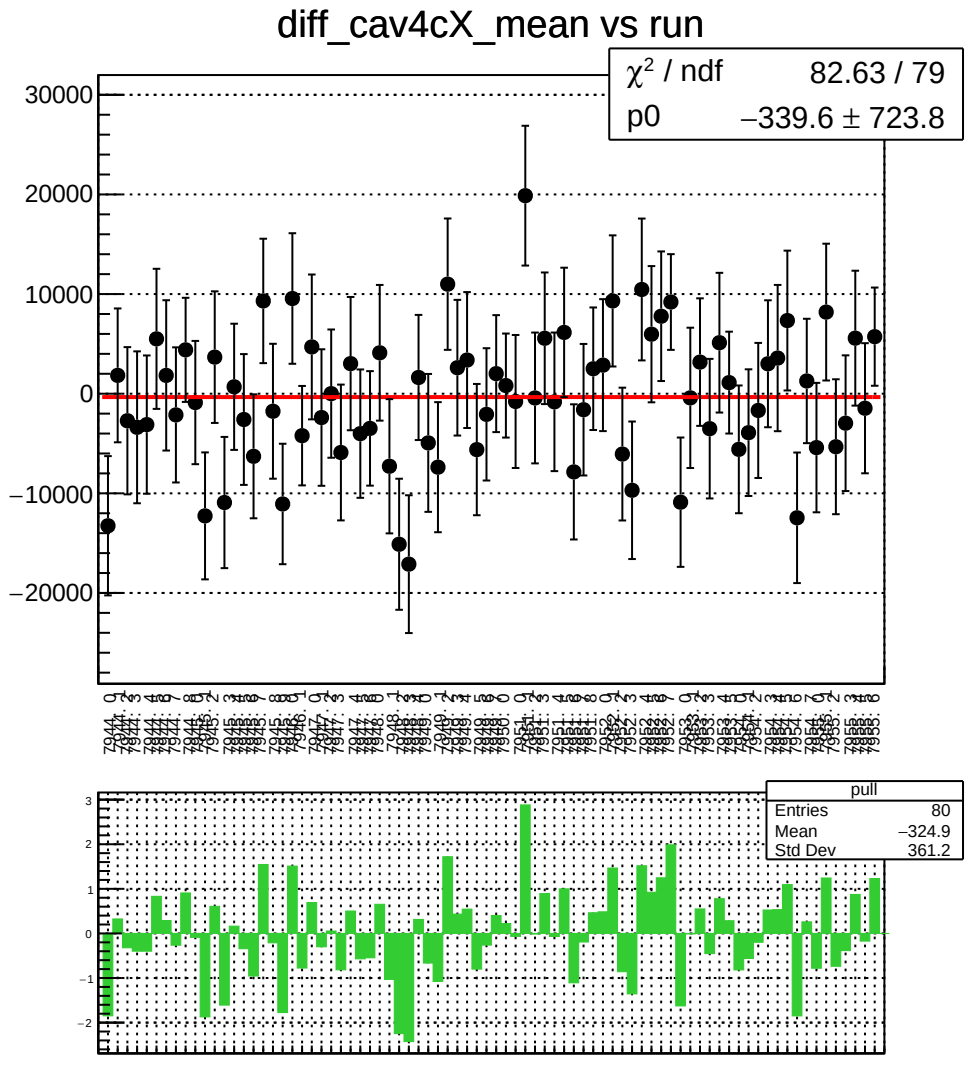

diff_cav4bX_mean vs run
χ² / ndf 82.63 / 79
p0 −936.7 ± 1821
pull
Entries 80
Mean −346.9
Std Dev 383.5

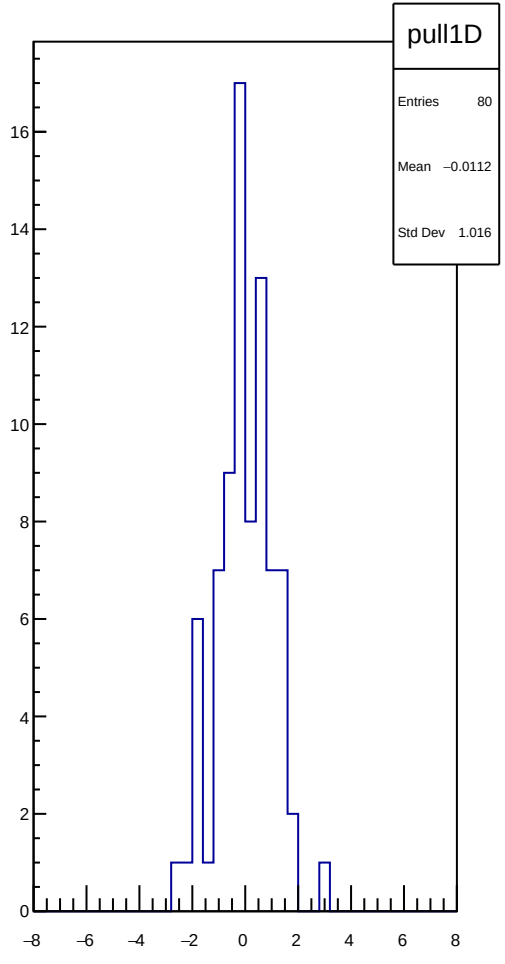

pull1D
Entries 80
Mean −0.01044
Std Dev 1.016

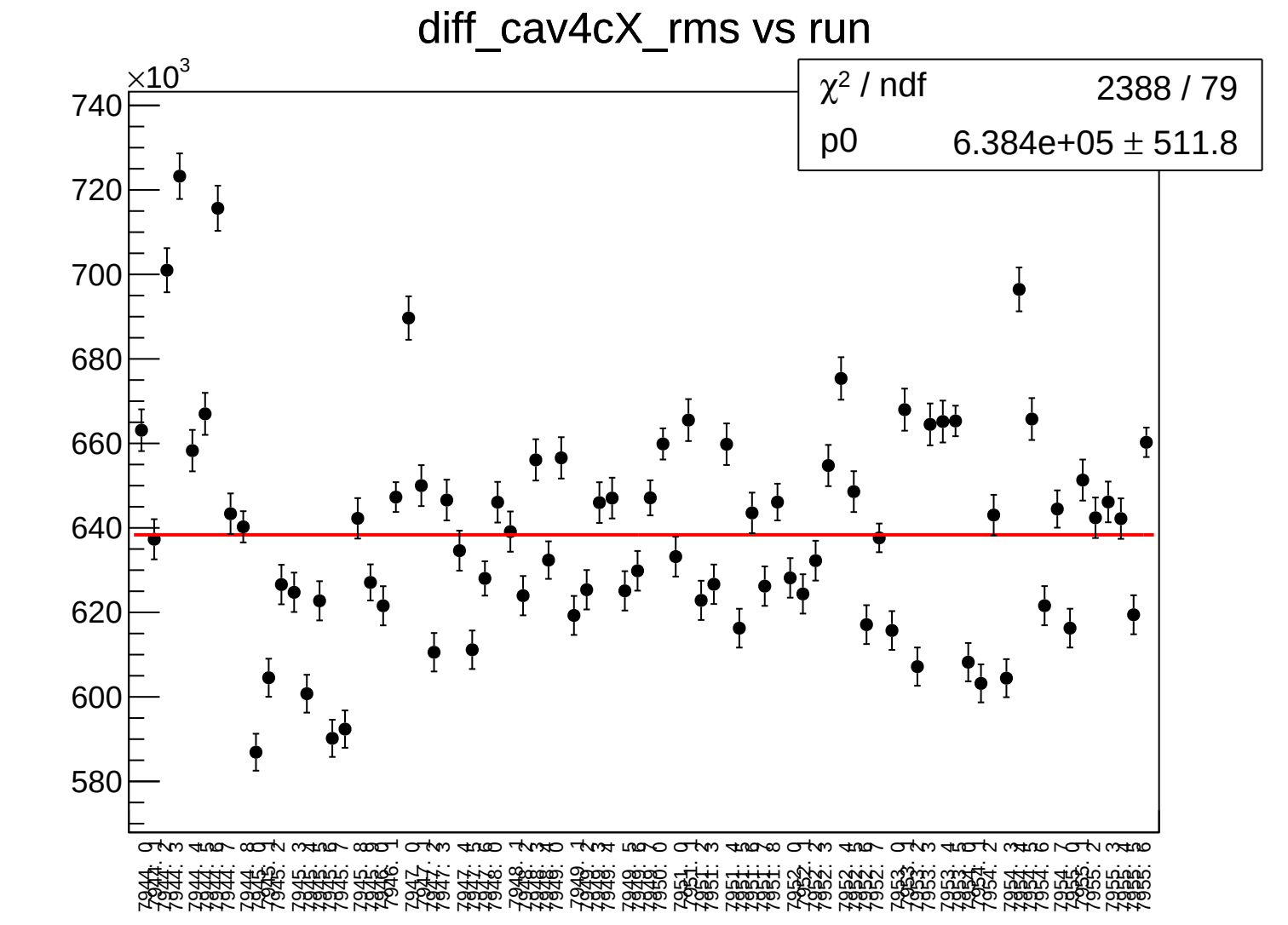

diff_cav4bY_mean vs run
χ² / ndf 68.92 / 79
p0 758.8 ± 386.3
15000
10000
5000
0
−5000
−10000
pull
Entries 80
Mean −106.6
Std Dev 156.2
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

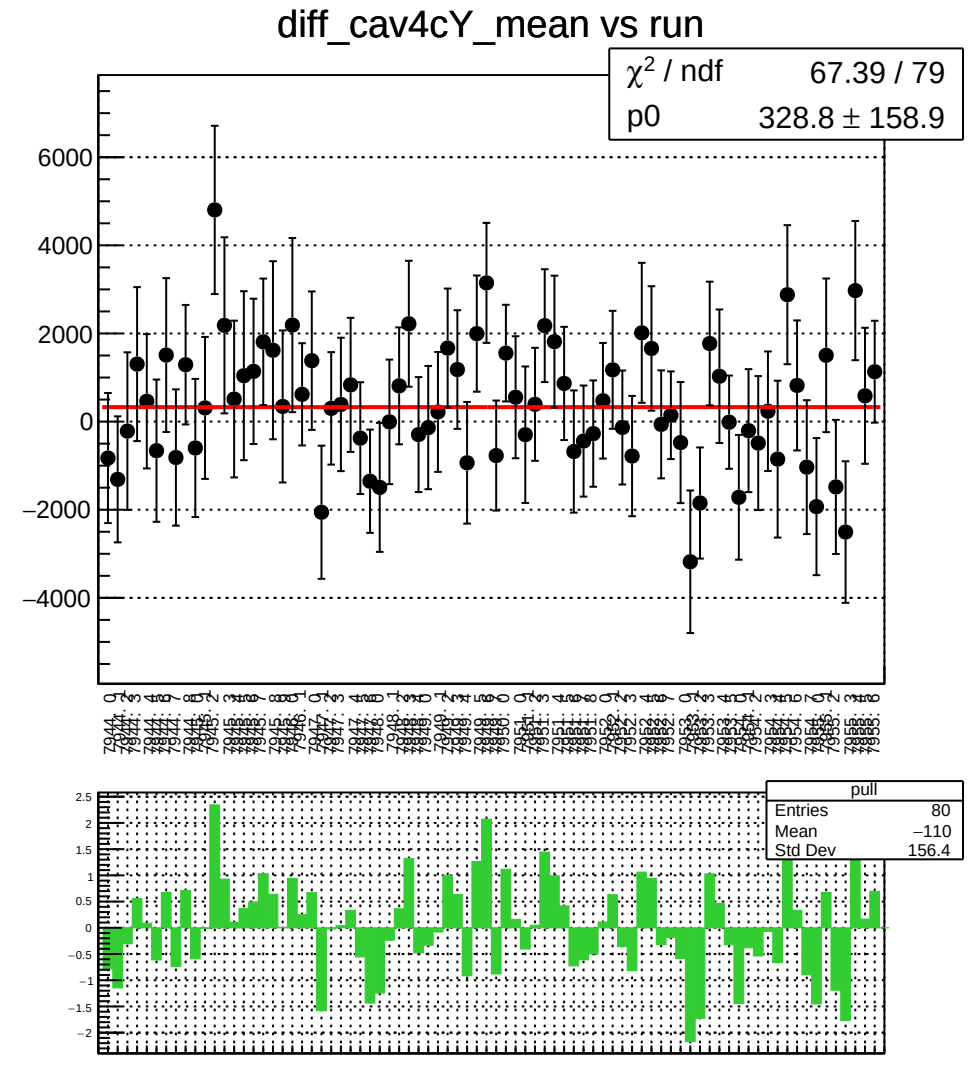

pull1D
Entries 80
Mean 0.01279
Std Dev 0.9281
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

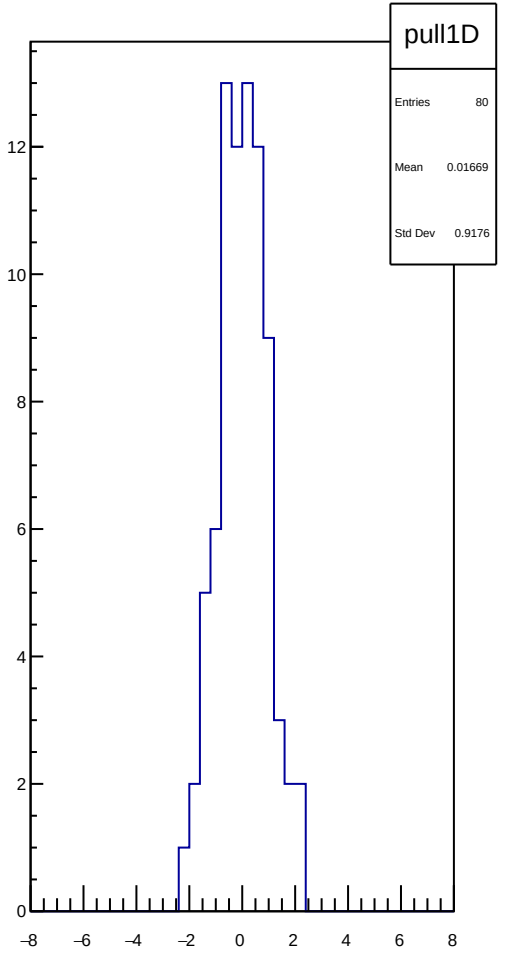

diff_cav4bY_rms vs run
×10^3
χ² / ndf 2.025e+04 / 79
p0 3.388e+05 ± 273.2
460
440
420
400
380
360
340
320
300
280
260

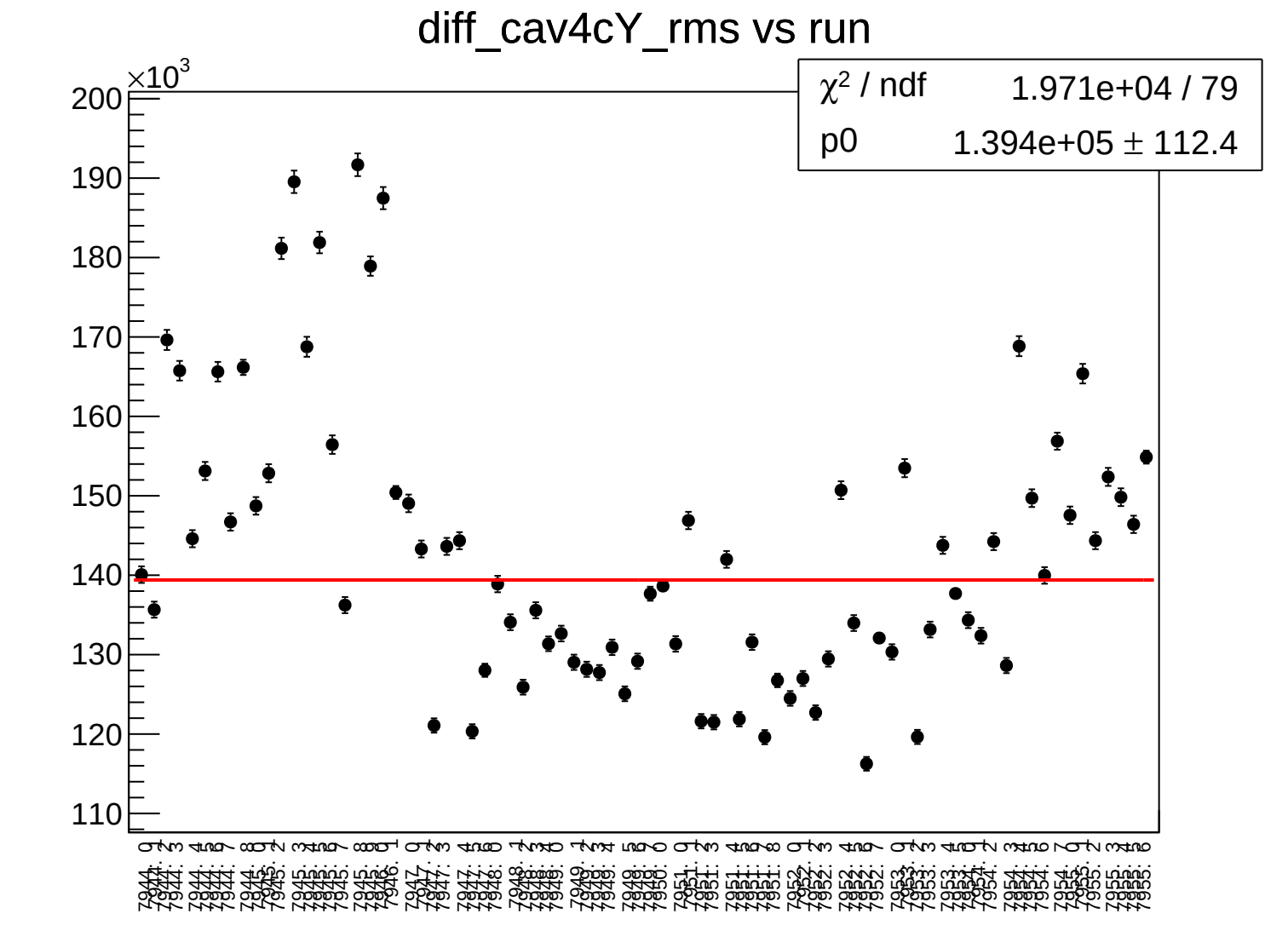

diff_cav4cX_mean vs run
χ² / ndf 82.63 / 79
p0 −339.6 ± 723.8
30000
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −324.9
Std Dev 361.2
3
2
1
0
−1
−2

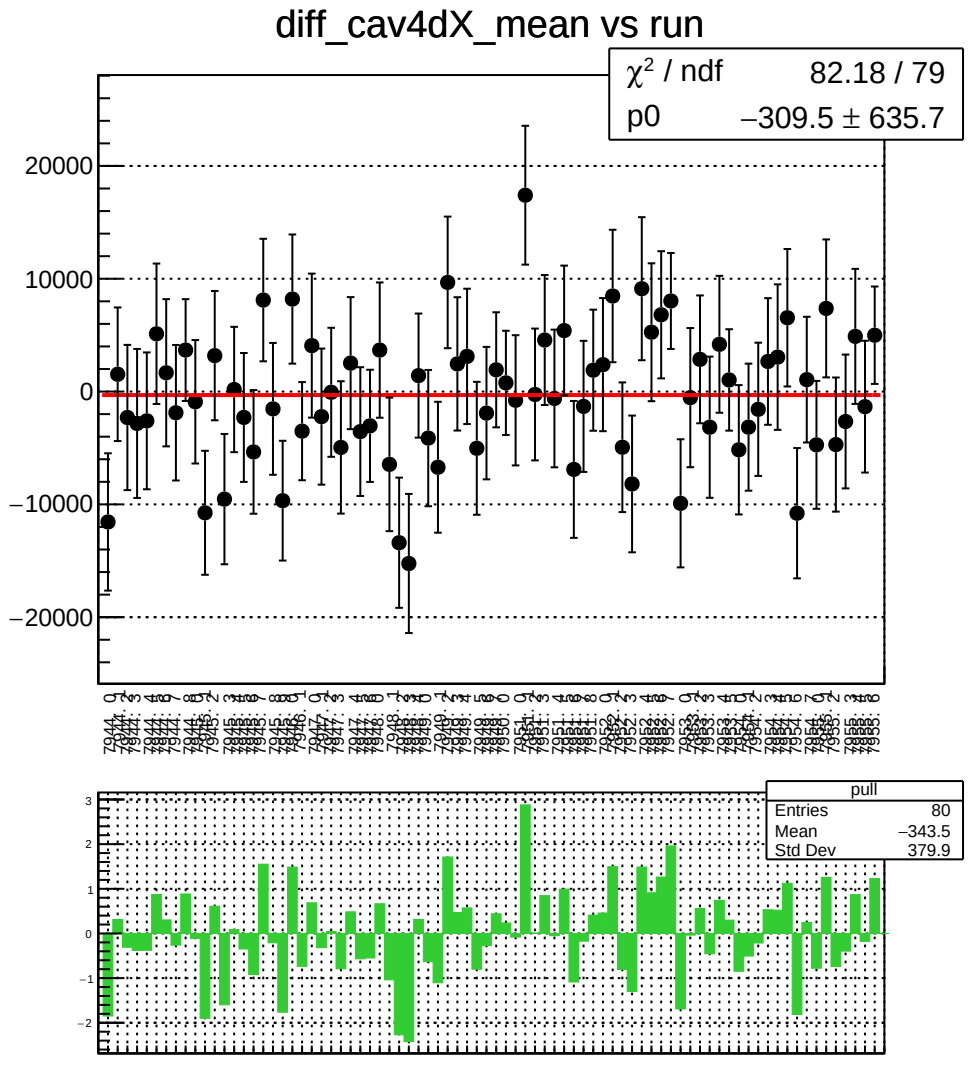

pull1D
Entries 80
Mean −0.0112
Std Dev 1.016
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

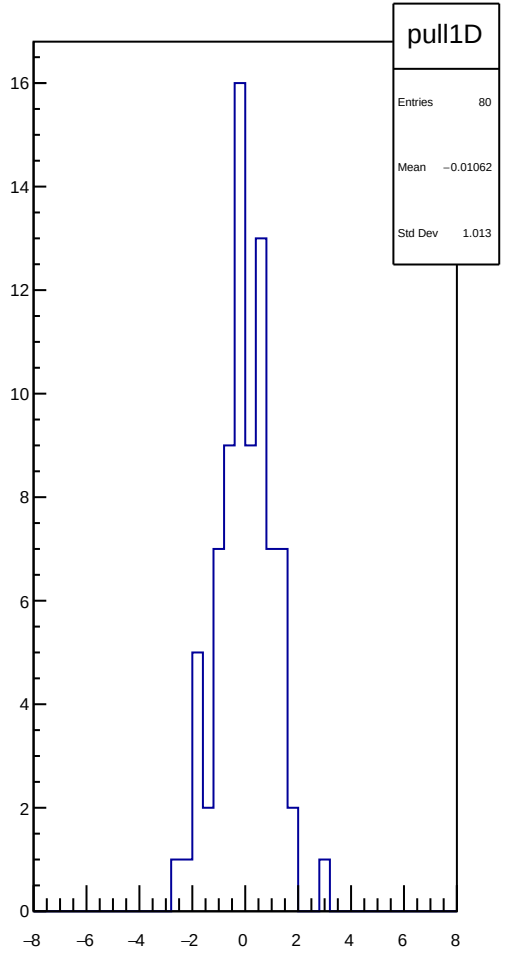

diff_cav4cX_rms vs run
×10^3
740
720
700
680
660
640
620
600
580
χ² / ndf 2388 / 79
p0 6.384e+05 ± 511.8

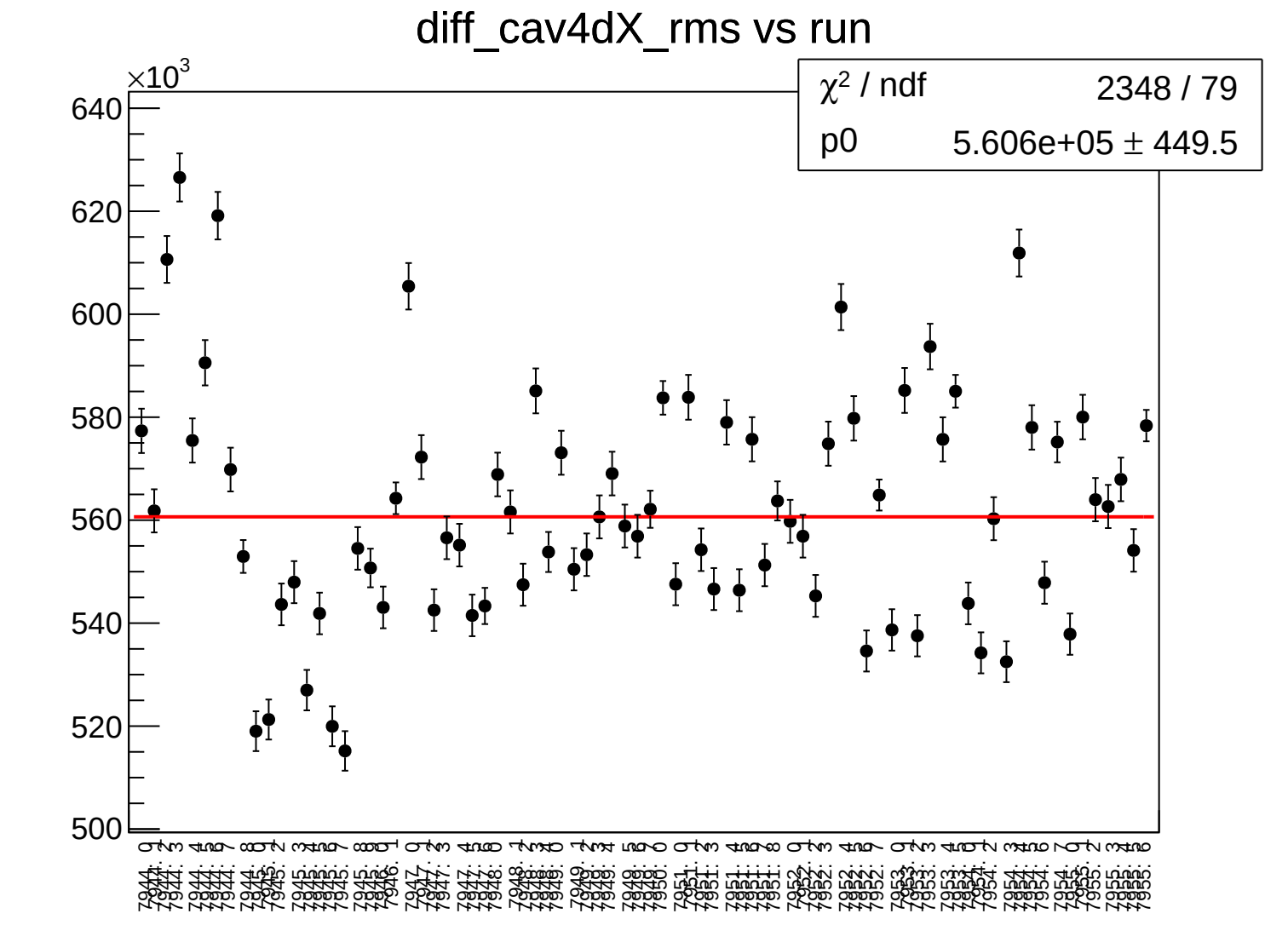

diff_cav4cY_mean vs run
χ² / ndf 67.39 / 79
p0 328.8 ± 158.9
6000
4000
2000
0
−2000
−4000
pull
Entries 80
Mean −110
Std Dev 156.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

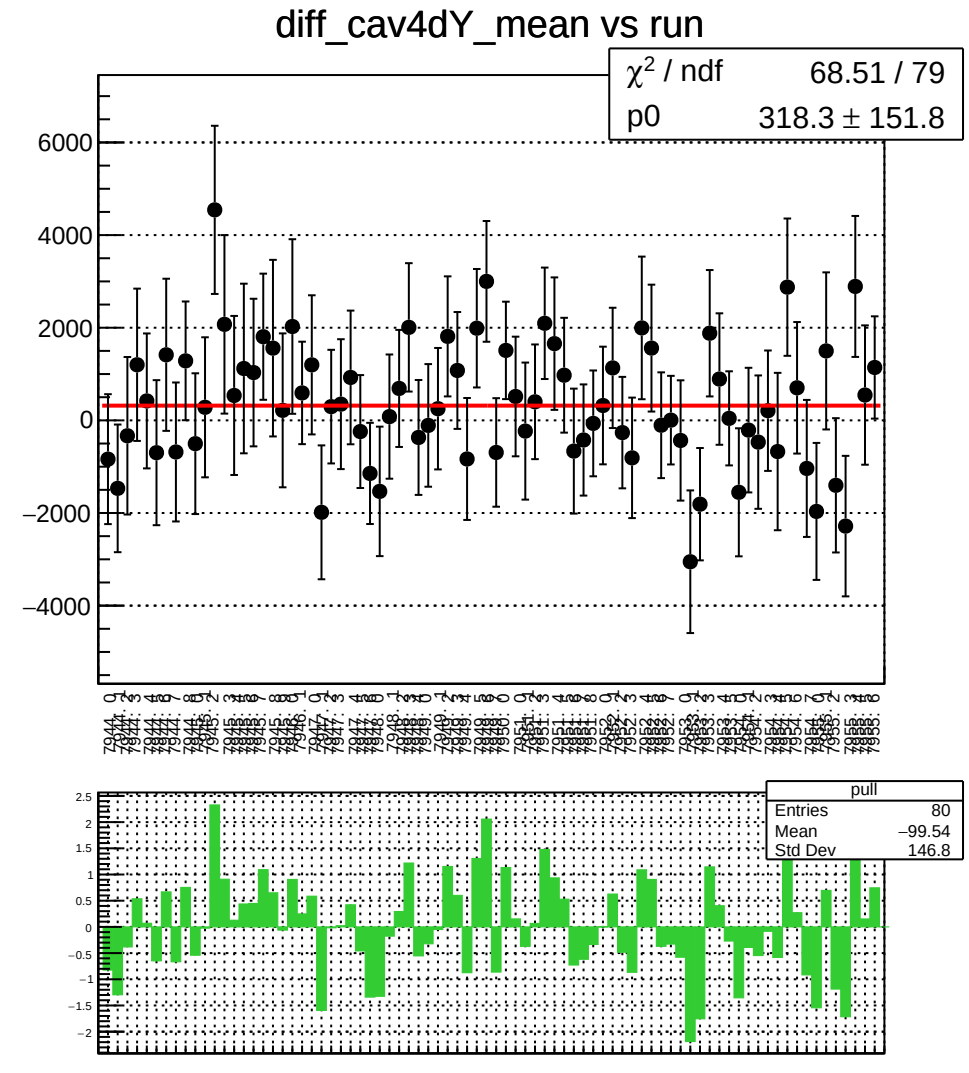

pull1D
Entries 80
Mean 0.01669
Std Dev 0.9176
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

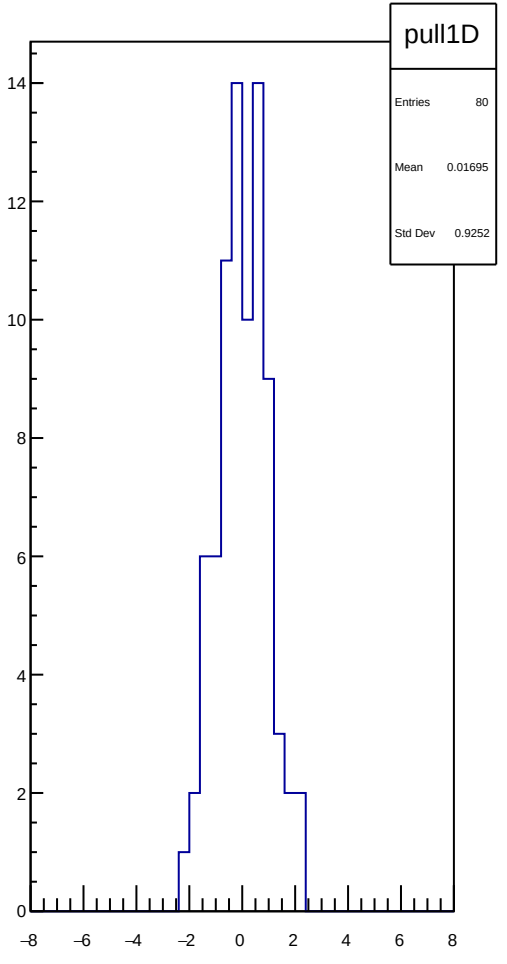

diff_cav4cY_rms vs run
×10^3
200
190
180
170
160
150
140
130
120
110
χ² / ndf 1.971e+04 / 79
p0 1.394e+05 ± 112.4

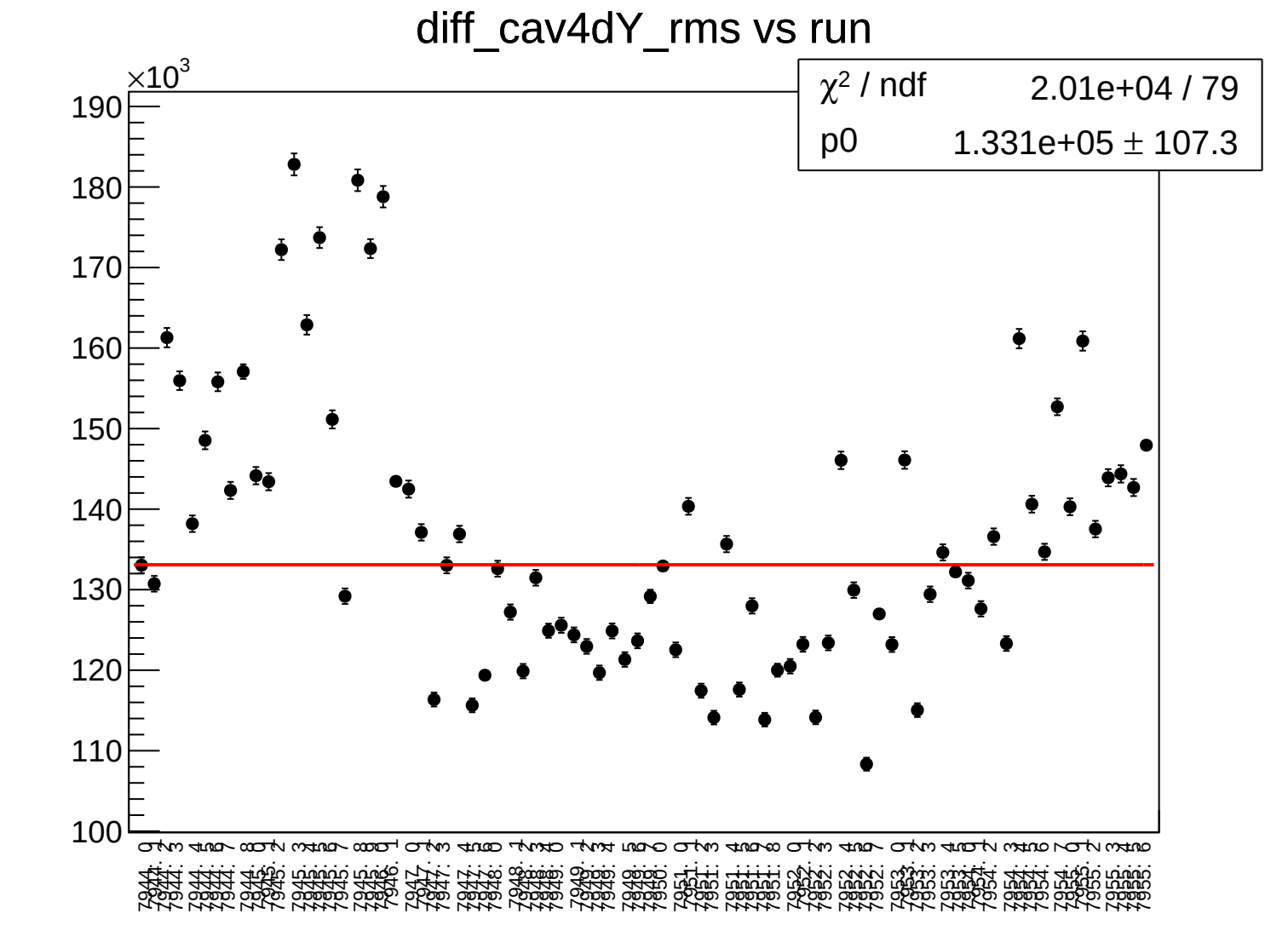

diff_cav4dX_mean vs run
χ² / ndf 82.18 / 79
p0 −309.5 ± 635.7
20000
10000
0
−10000
−20000
pull
Entries 80
Mean −343.5
Std Dev 379.9
3
2
1
0
−1
−2

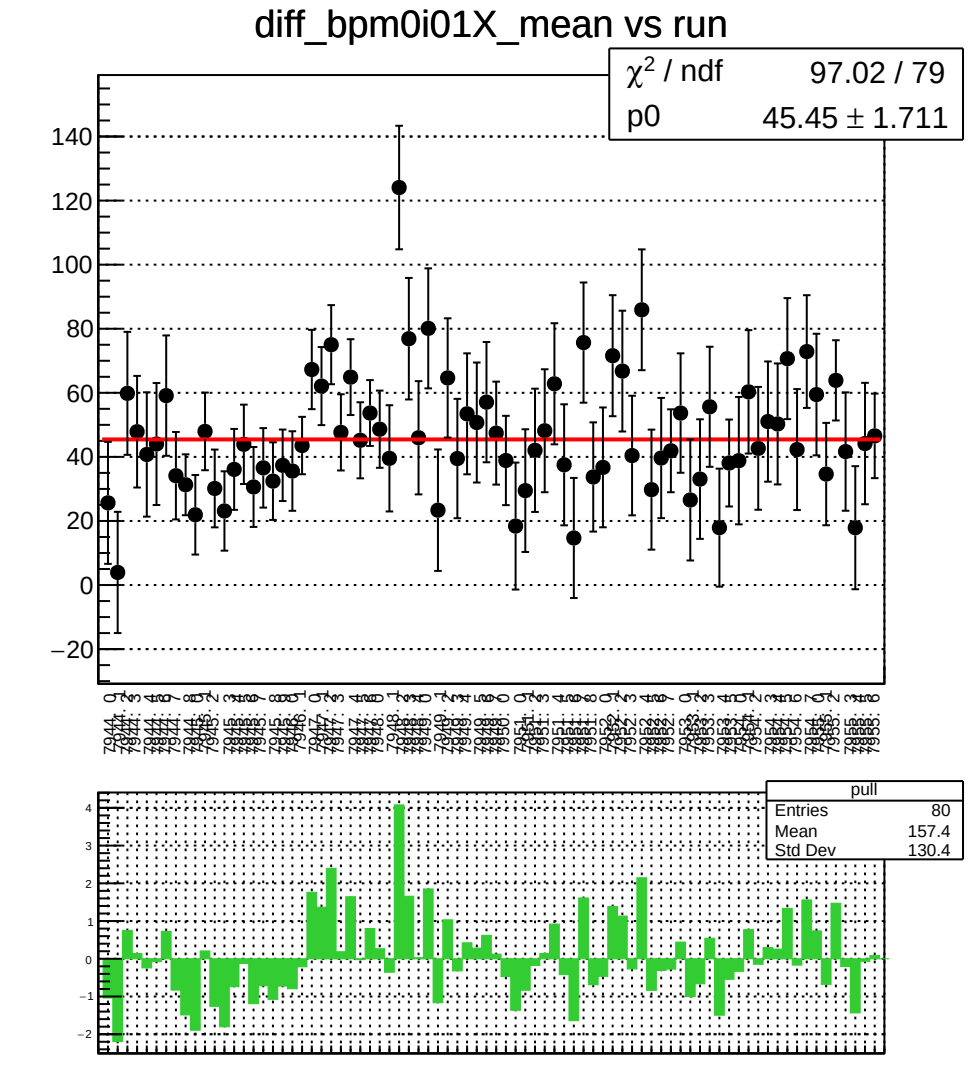

pull1D
Entries 80
Mean −0.01062
Std Dev 1.013
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

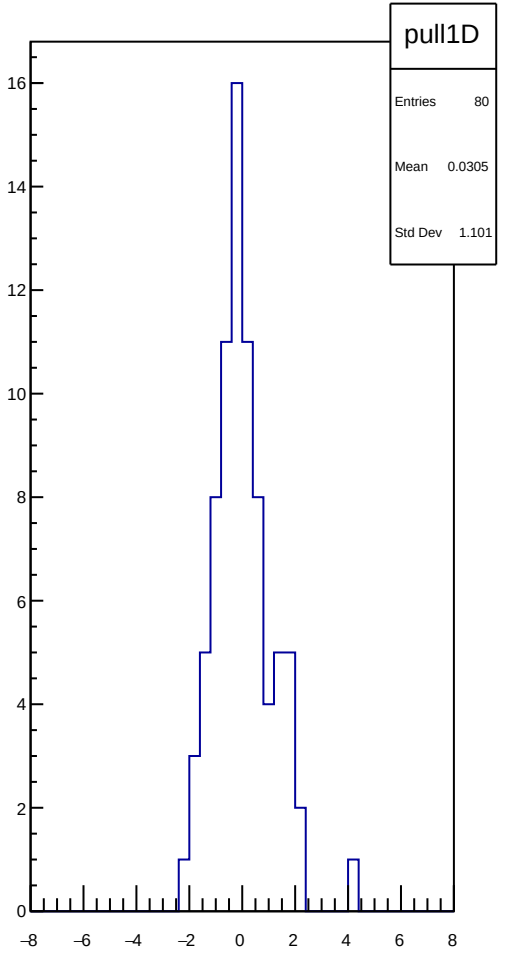

diff_cav4dX_rms vs run
×10^3
640
620
600
580
560
540
520
500
χ² / ndf 2348 / 79
p0 5.606e+05 ± 449.5

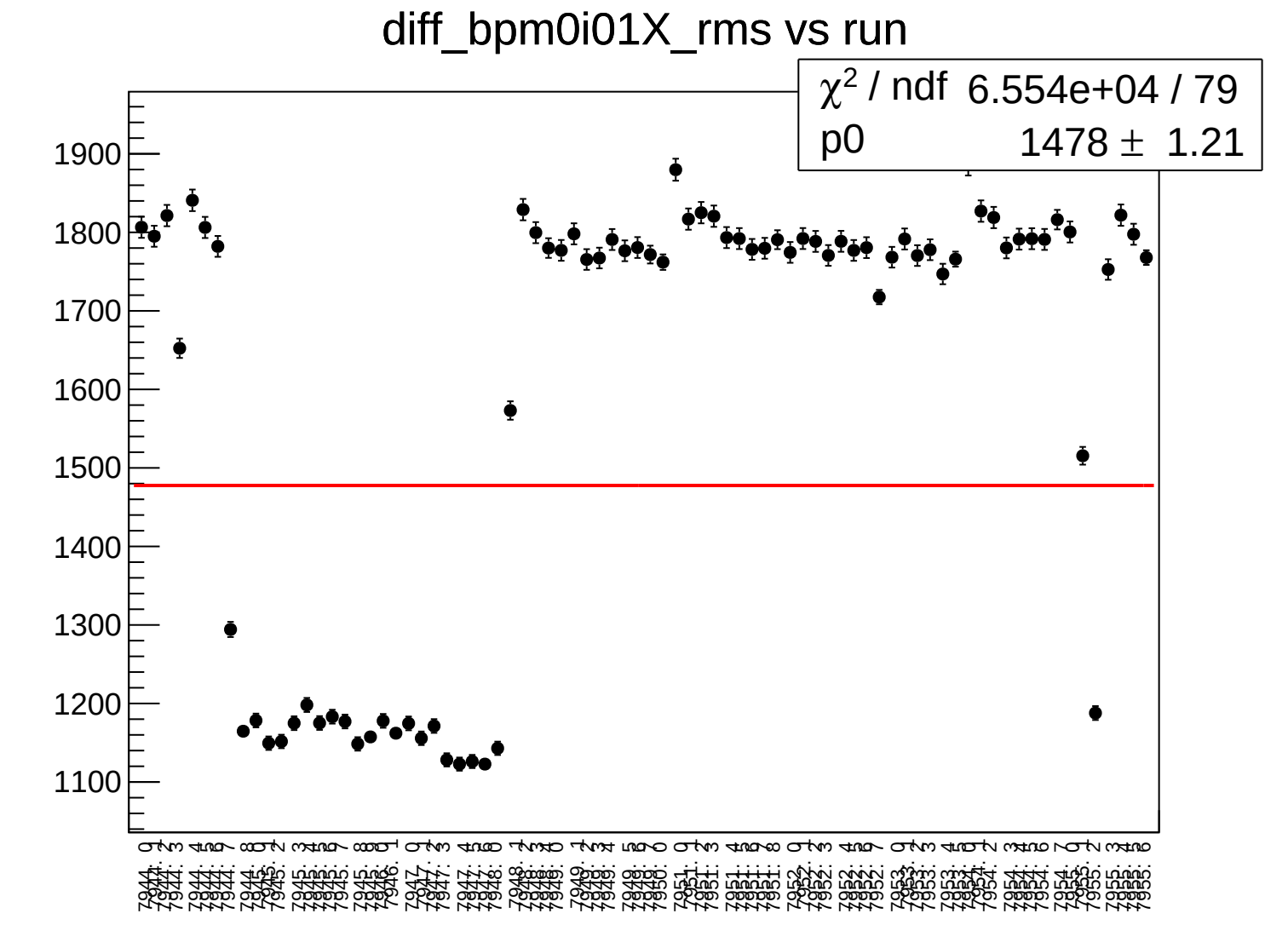

diff_cav4dY_mean vs run
χ^2 / ndf 68.51 / 79
p0 318.3 ± 151.8
6000
4000
2000
0
−2000
−4000
pull
Entries 80
Mean −99.54
Std Dev 146.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

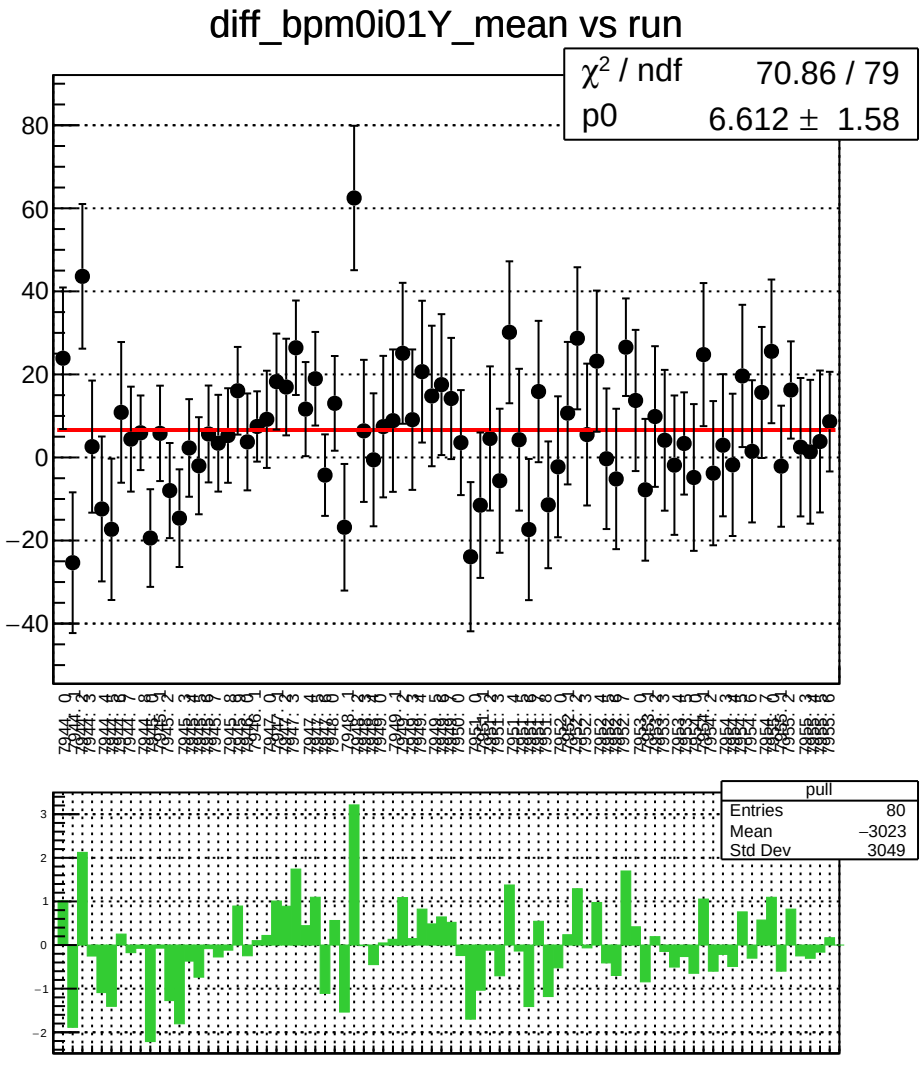

pull1D
Entries 80
Mean 0.01695
Std Dev 0.9252
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

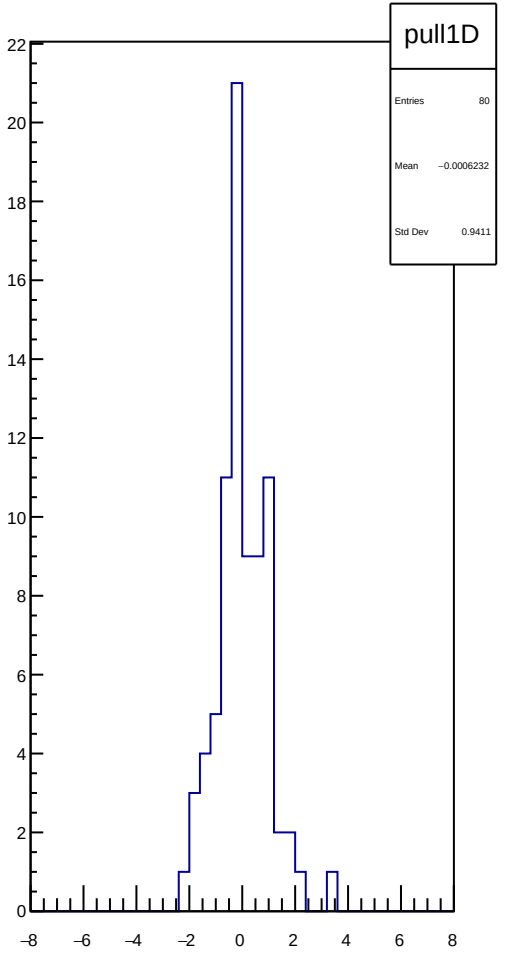

diff_cav4dY_rms vs run
×10^3
χ² / ndf 2.01e+04 / 79
p0 1.331e+05 ± 107.3
190
180
170
160
150
140
130
120
110
100

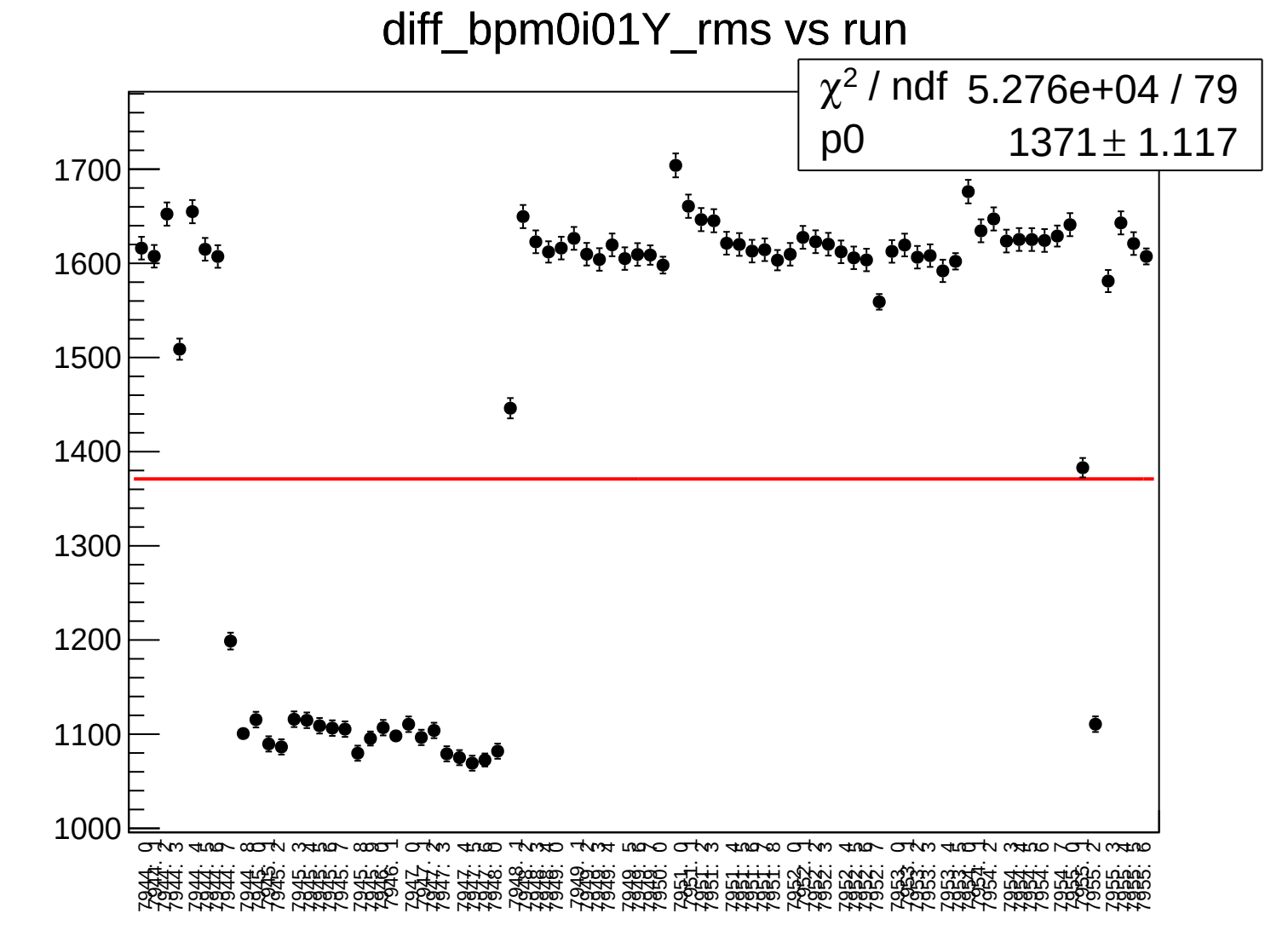

diff_bpm0i01X_mean vs run
χ² / ndf 97.02 / 79
p0 45.45 ± 1.711
pull
Entries 80
Mean 157.4
Std Dev 130.4

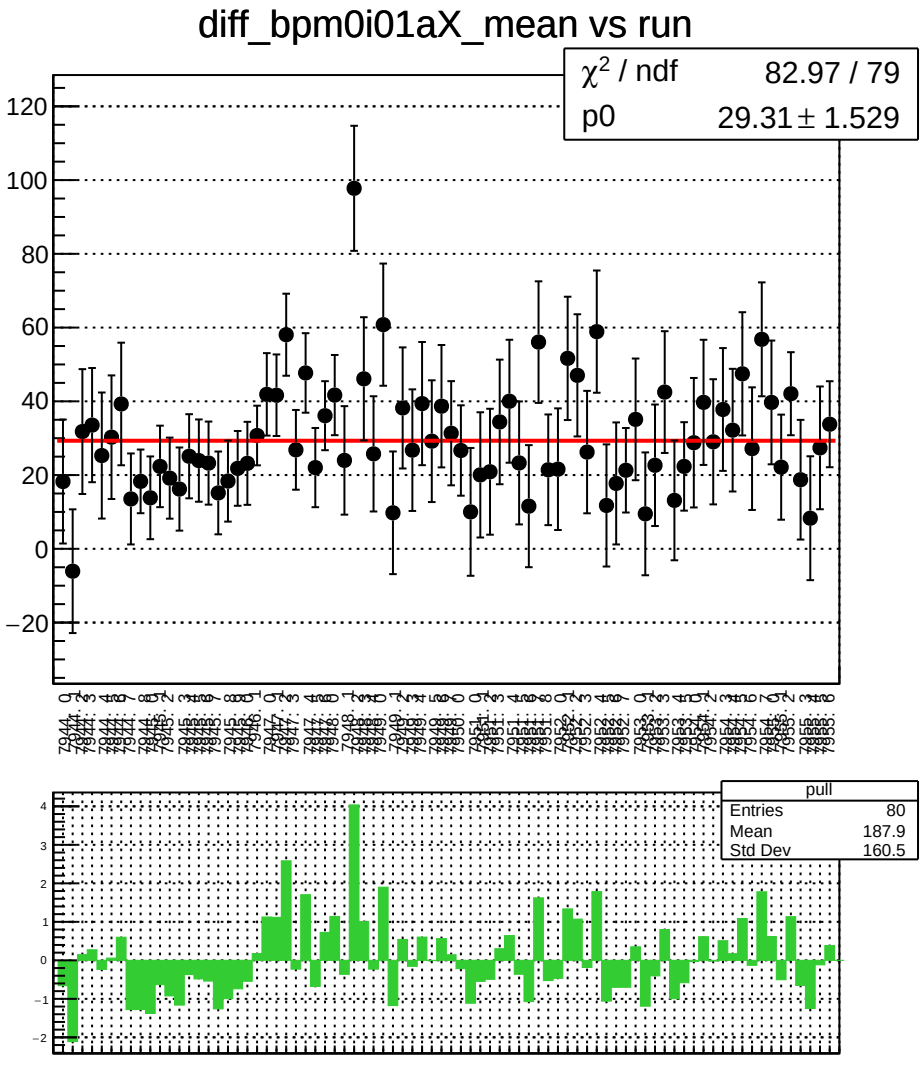

pull1D
Entries 80
Mean 0.0305
Std Dev 1.101

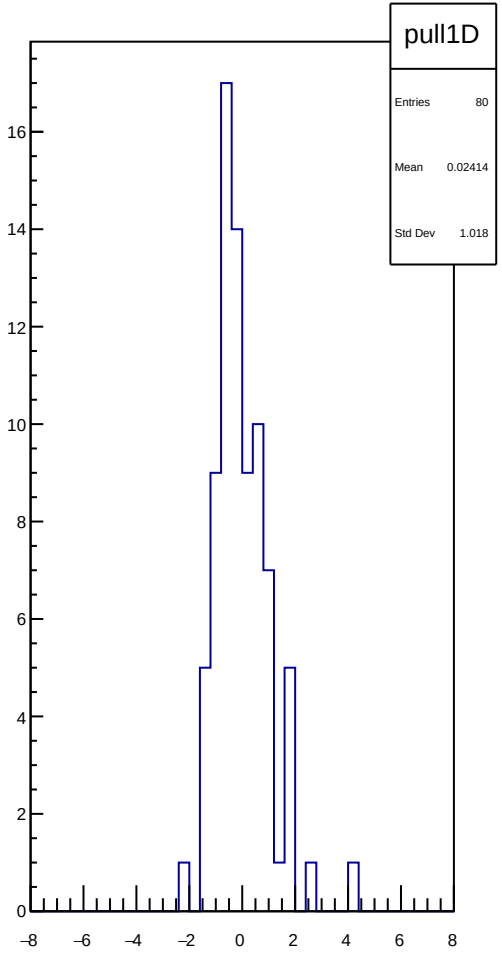

diff_bpm0i01X_rms vs run
χ² / ndf 6.554e+04 / 79
p0 1478 ± 1.21
1900
1800
1700
1600
1500
1400
1300
1200
1100

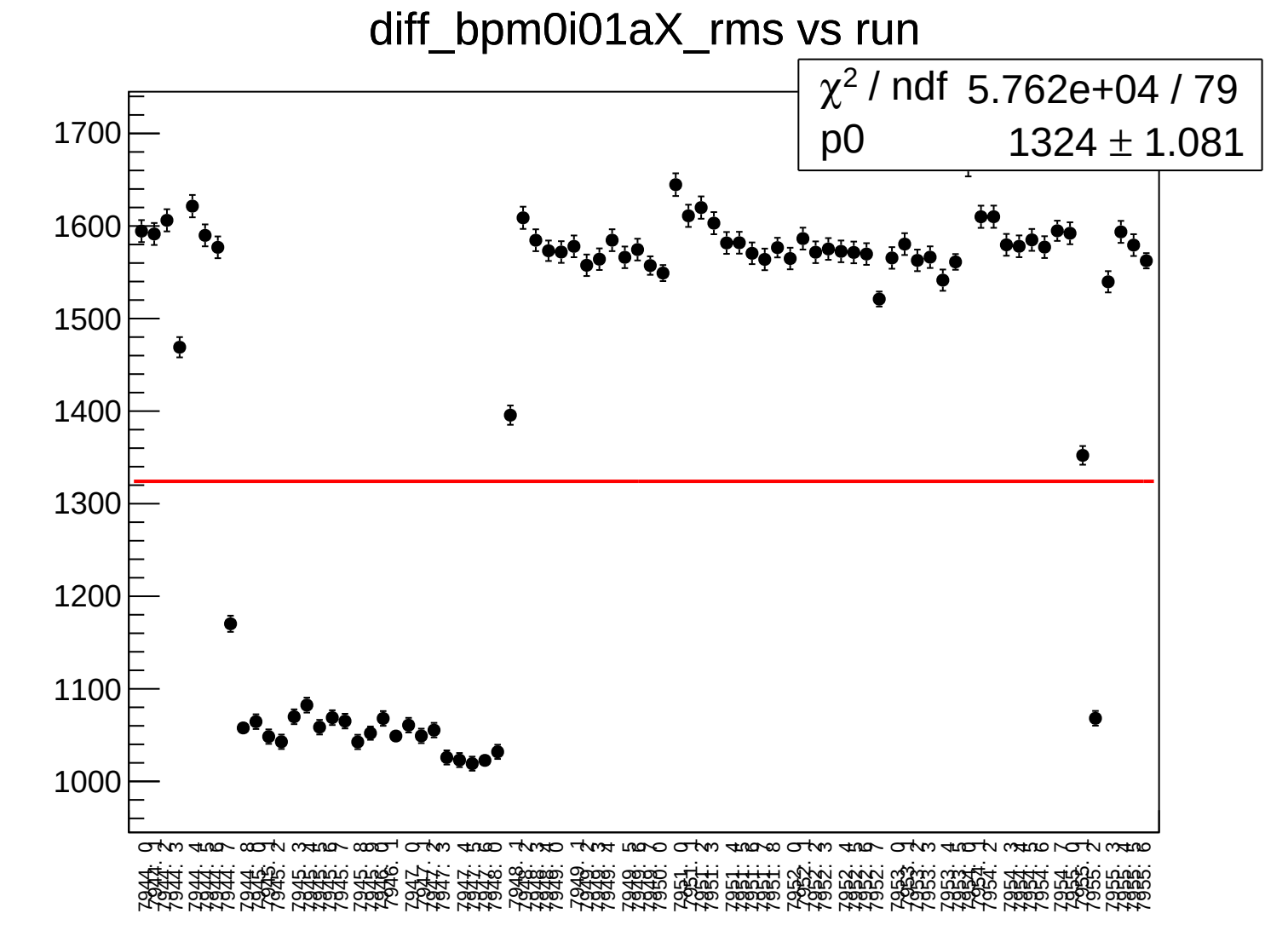

diff_bpm0i01Y_mean vs run
χ² / ndf 70.86 / 79
p0 6.612 ± 1.58
pull
Entries 80
Mean −3023
Std Dev 3049

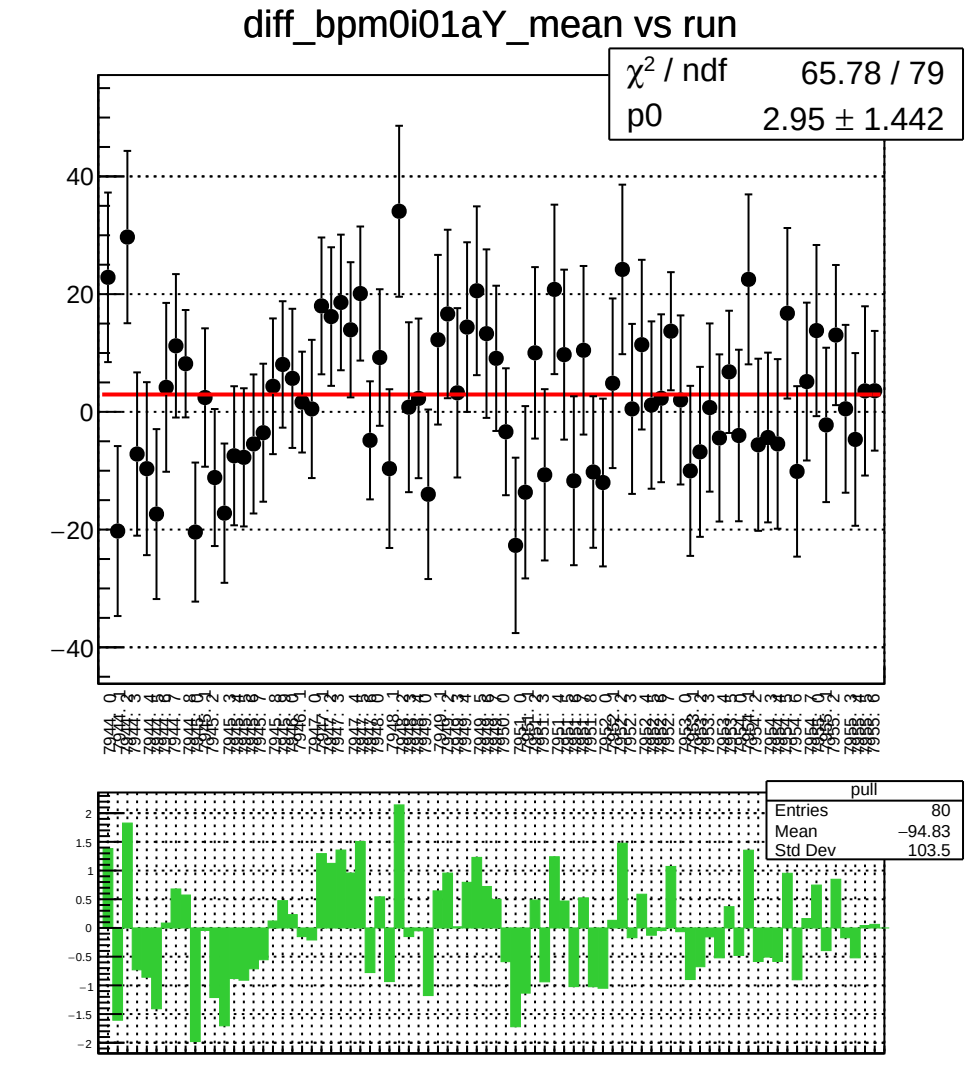

pull1D
Entries 80
Mean −0.0006232
Std Dev 0.9411

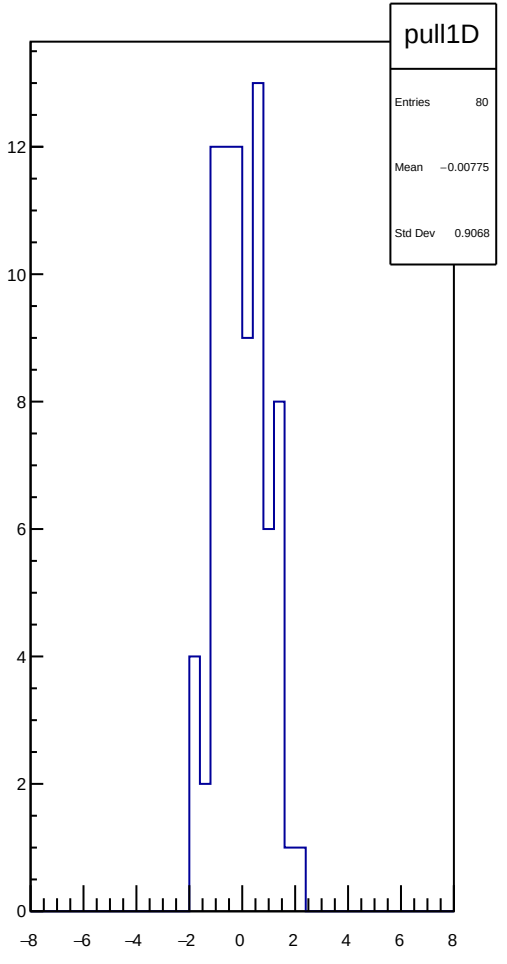

diff_bpm0i01Y_rms vs run
χ² / ndf 5.276e+04 / 79
p0 1371 ± 1.117
1700
1600
1500
1400
1300
1200
1100
1000

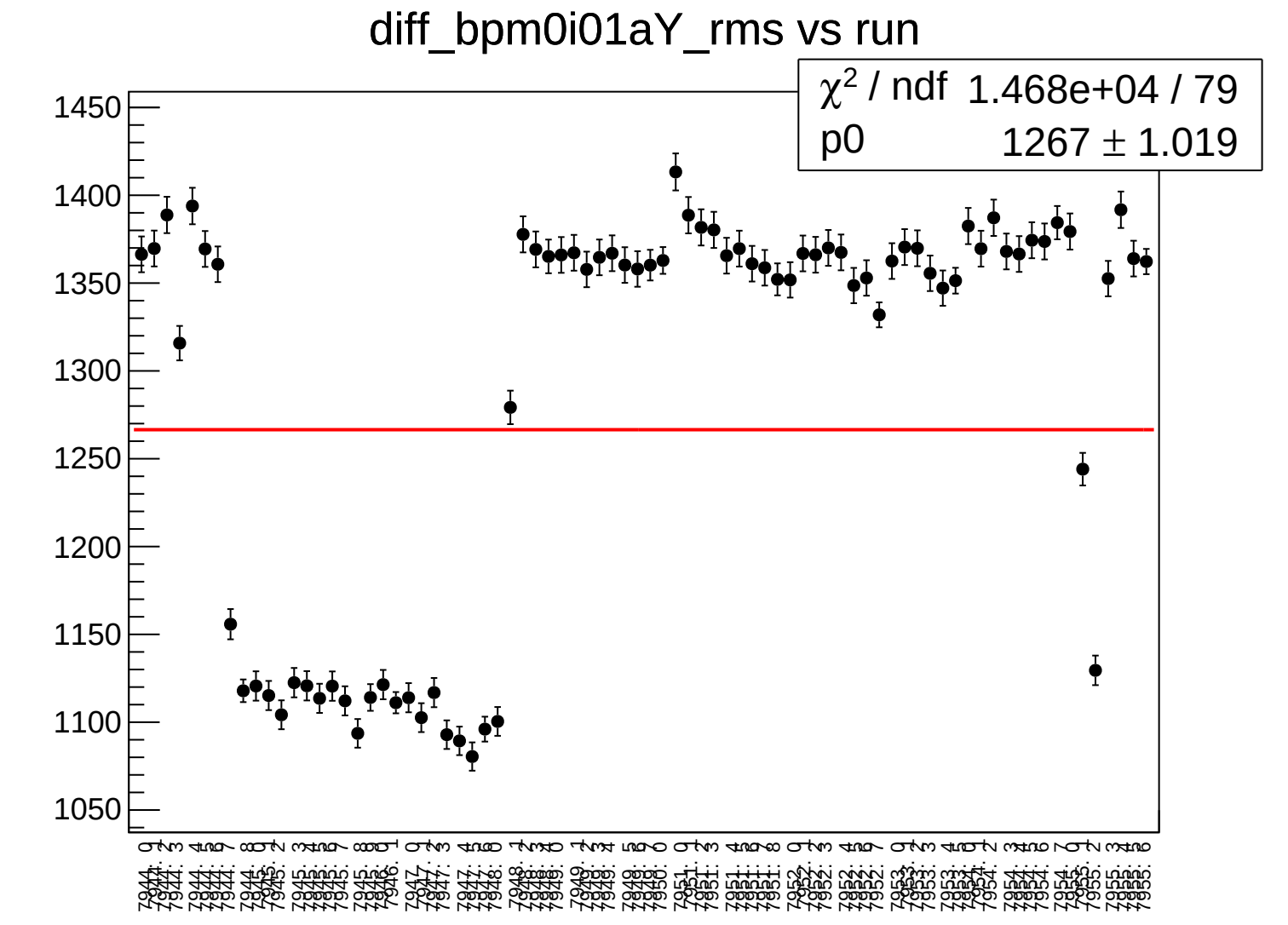

diff_bpm0i01aX_mean vs run
χ² / ndf 82.97 / 79
p0 29.31 ± 1.529
pull
Entries 80
Mean 187.9
Std Dev 160.5

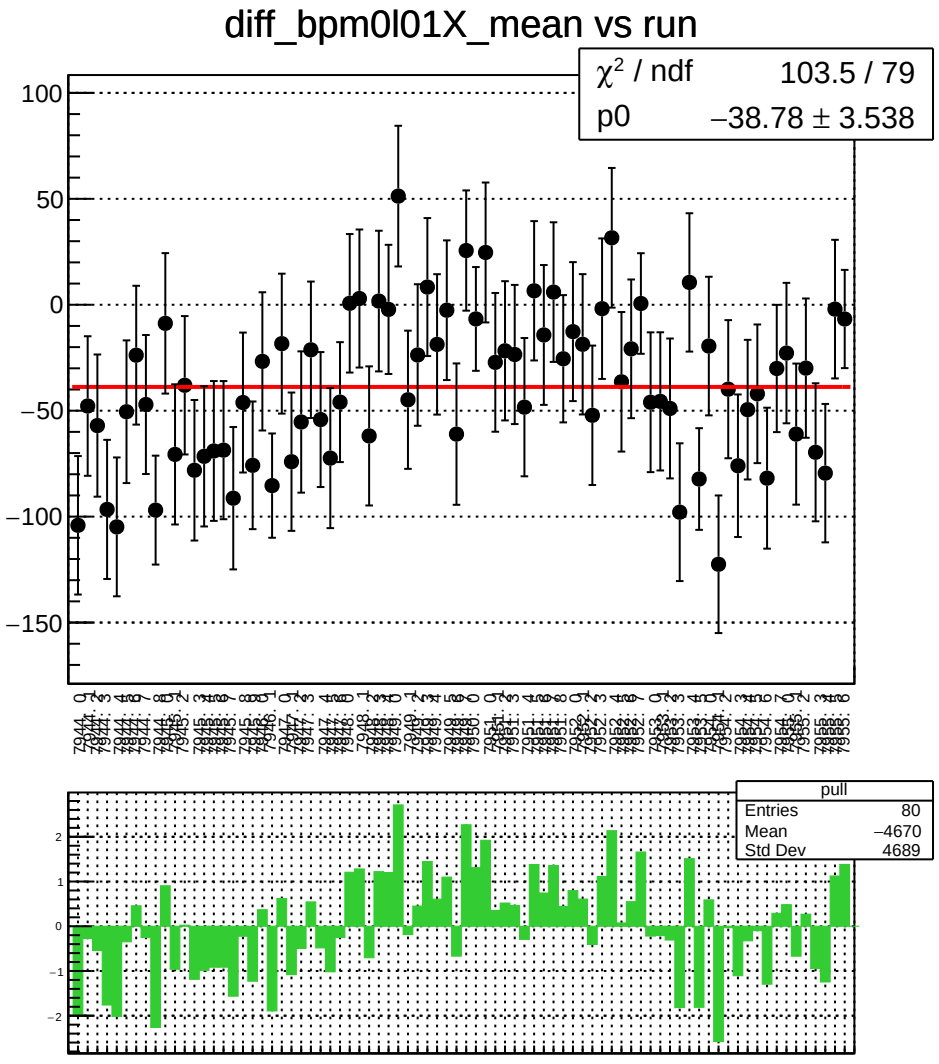

pull1D
Entries 80
Mean 0.02414
Std Dev 1.018

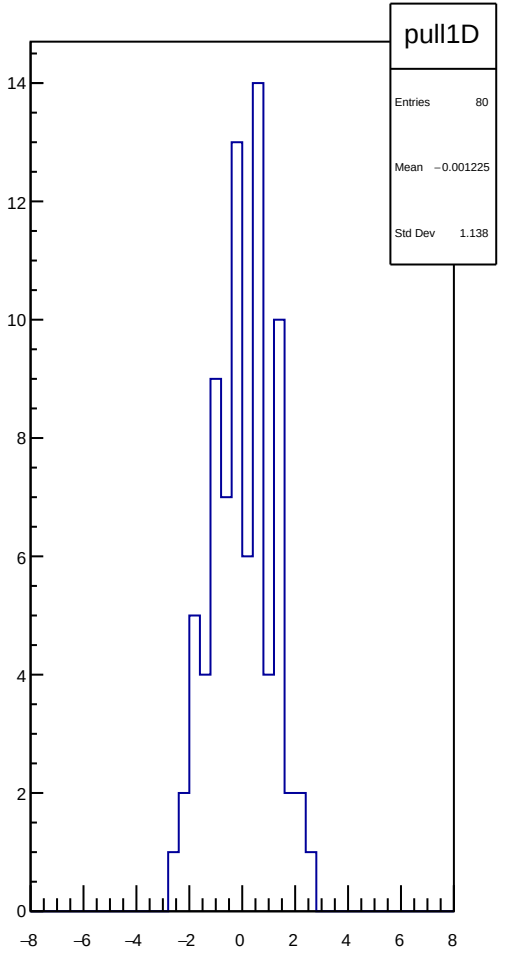

diff_bpm0i01aX_rms vs run
χ² / ndf 5.762e+04 / 79
p0 1324 ± 1.081
1700
1600
1500
1400
1300
1200
1100
1000

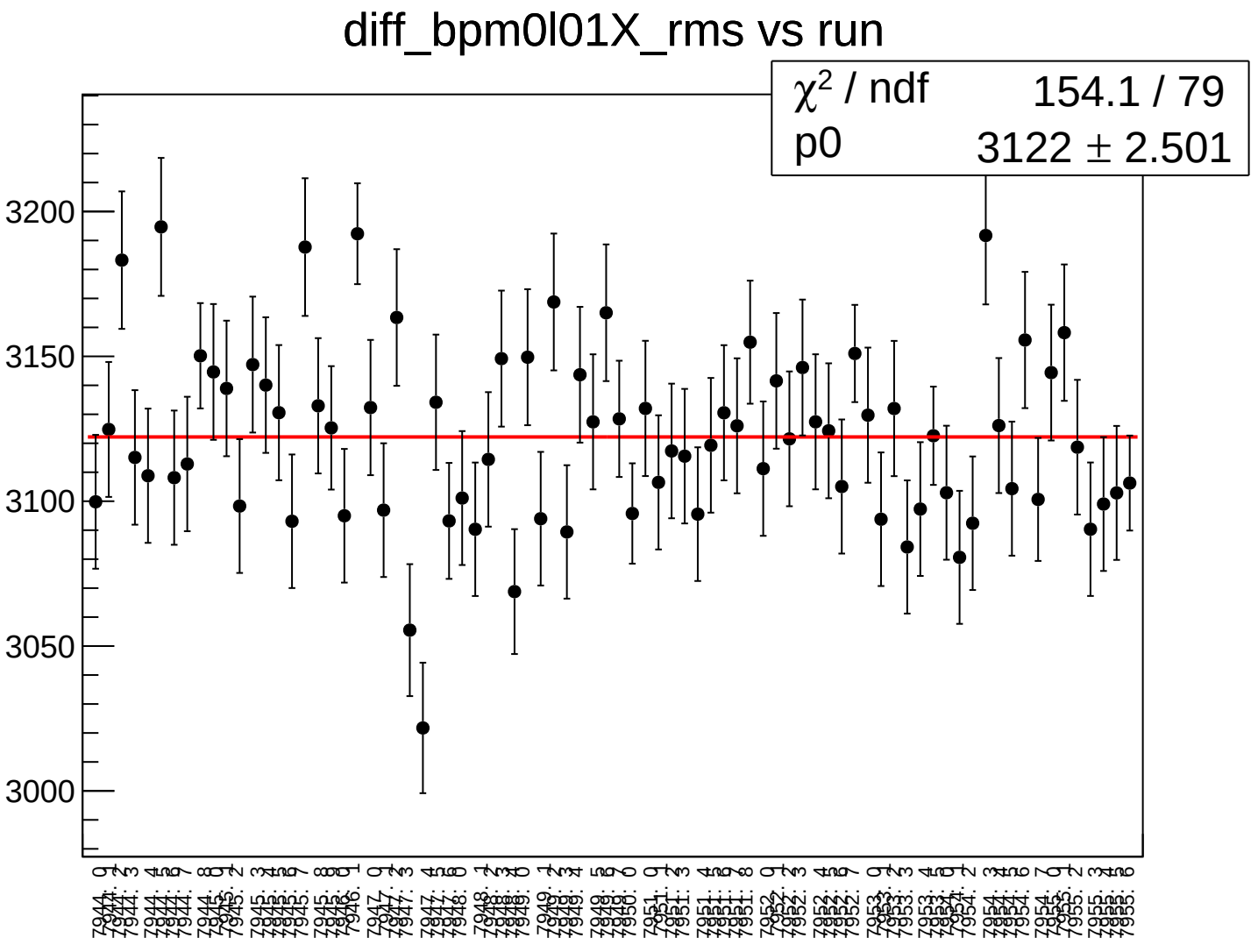

diff_bpm0i01aY_mean vs run
χ² / ndf 65.78 / 79
p0 2.95 ± 1.442
pull
Entries 80
Mean −94.83
Std Dev 103.5

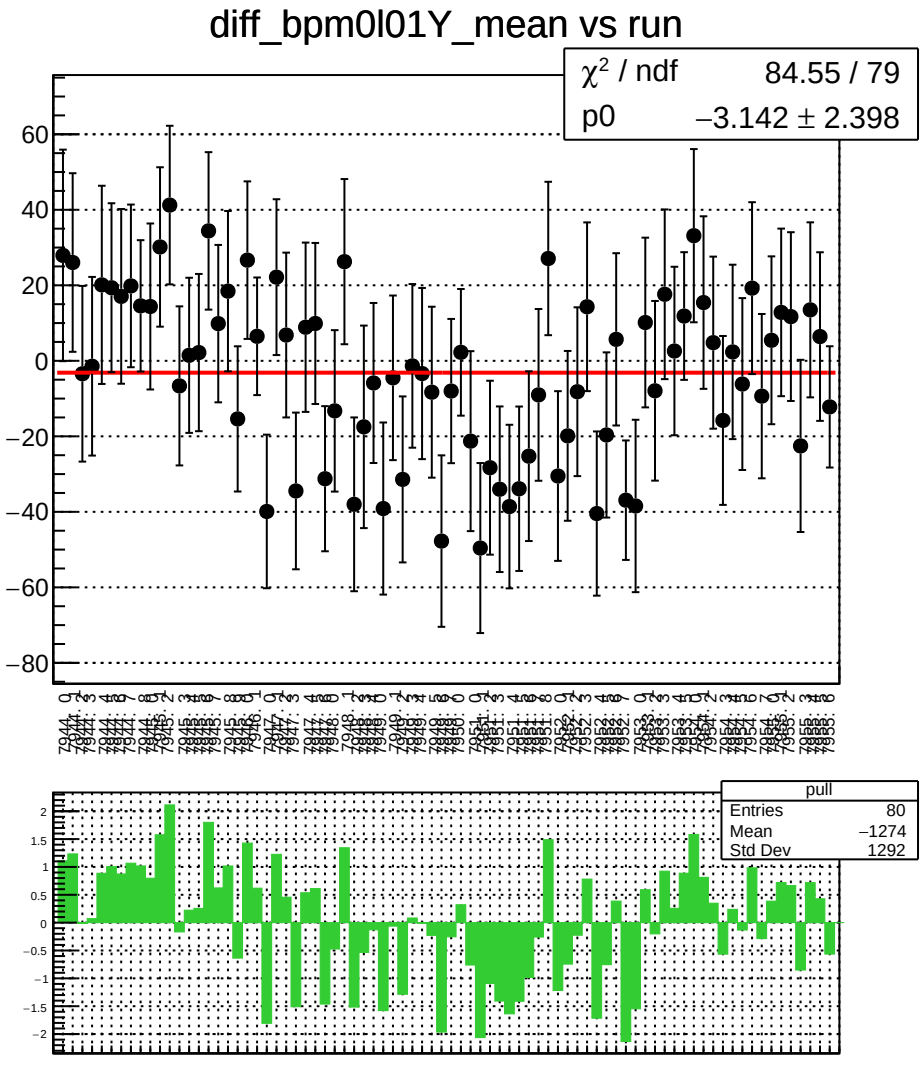

pull1D
Entries 80
Mean −0.00775
Std Dev 0.9068

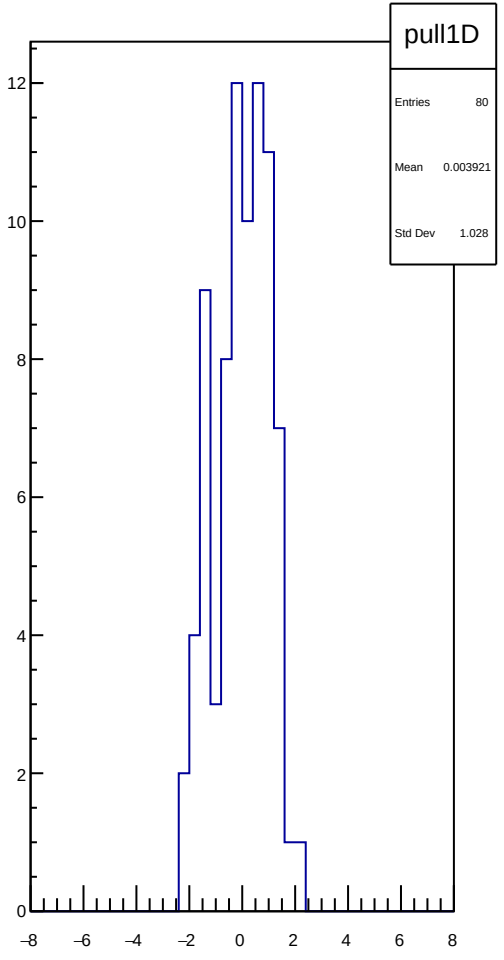

diff_bpm0i01aY_rms vs run
χ² / ndf 1.468e+04 / 79
p0 1267 ± 1.019
1450
1400
1350
1300
1250
1200
1150
1100
1050

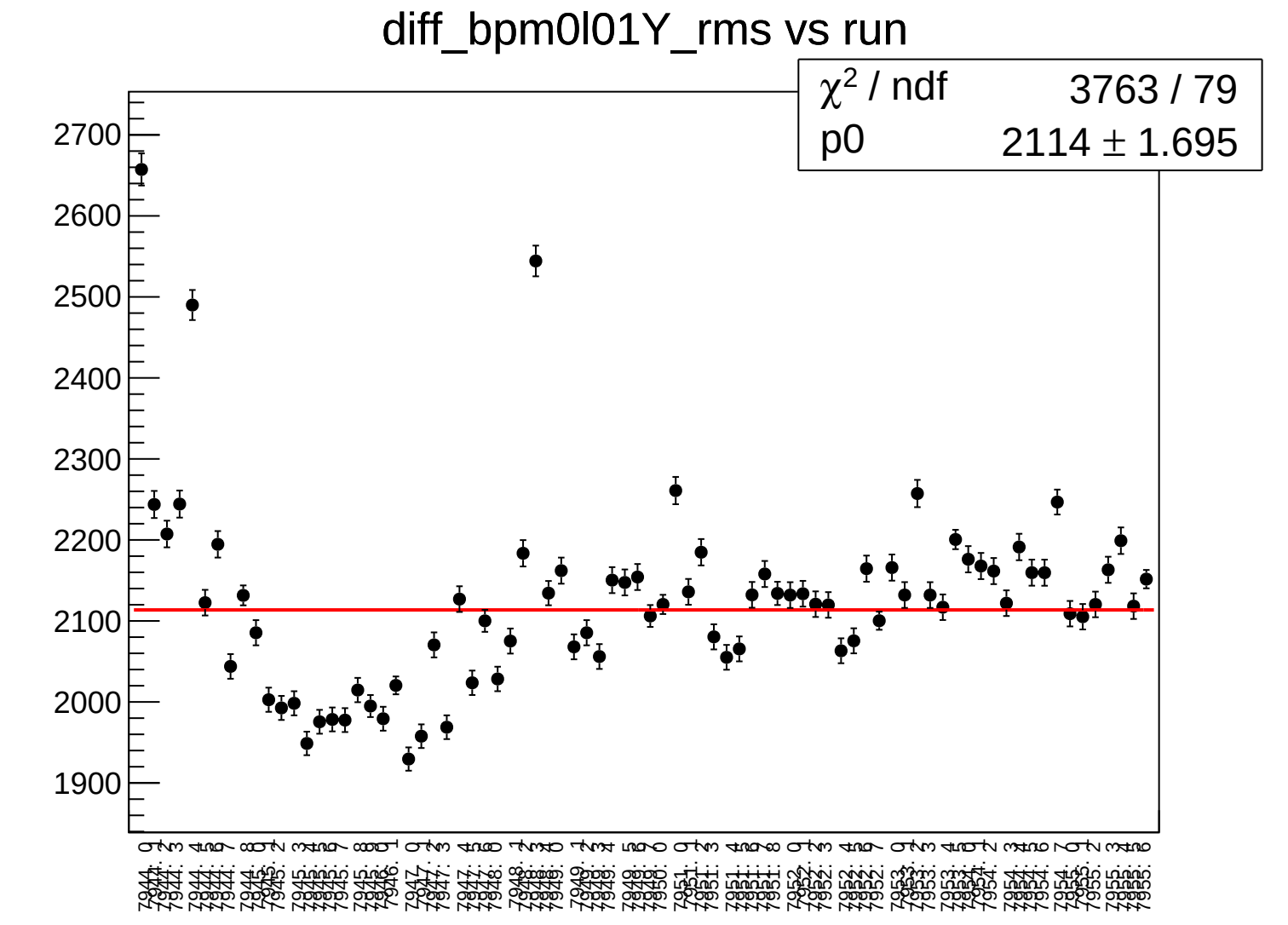

diff_bpm0l01X_mean vs run
χ^2 / ndf 103.5 / 79
p0 −38.78 ± 3.538
pull
Entries 80
Mean −4670
Std Dev 4689

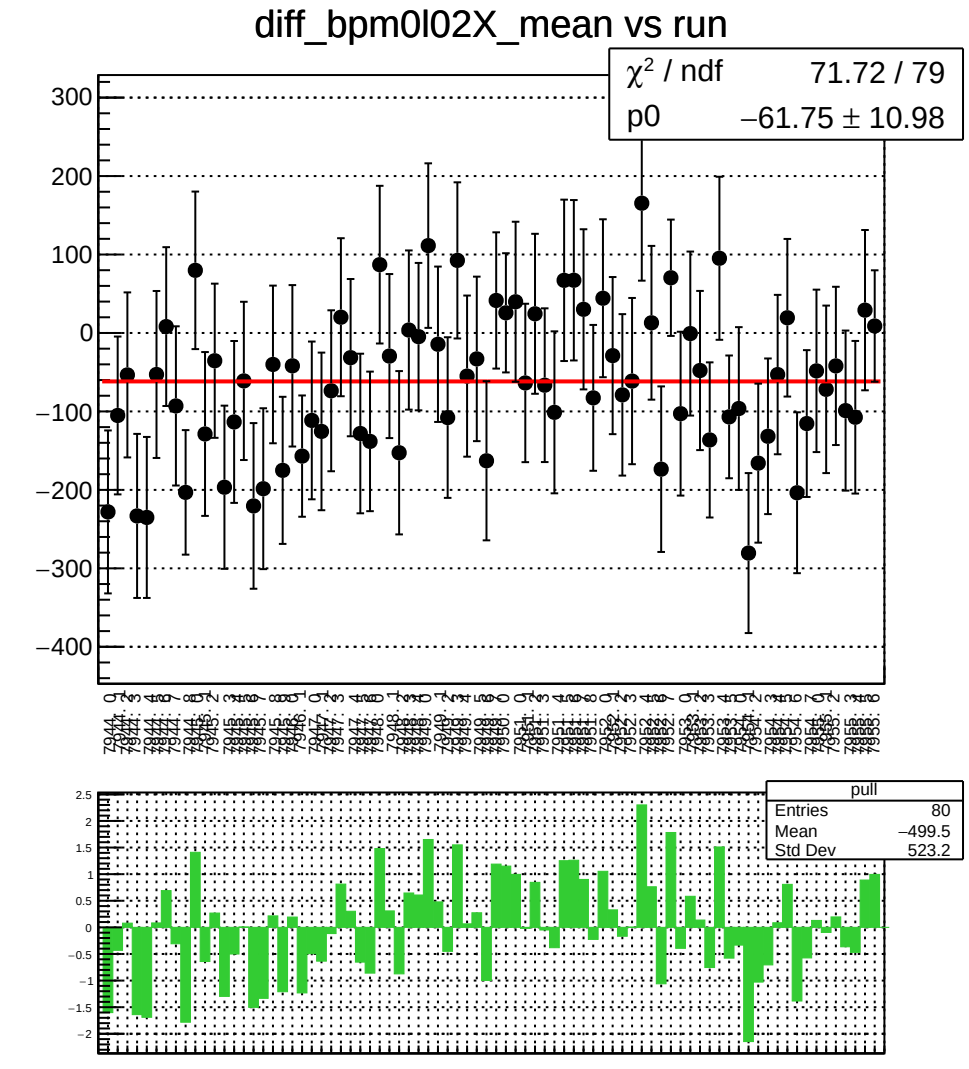

pull1D
Entries 80
Mean −0.001225
Std Dev 1.138

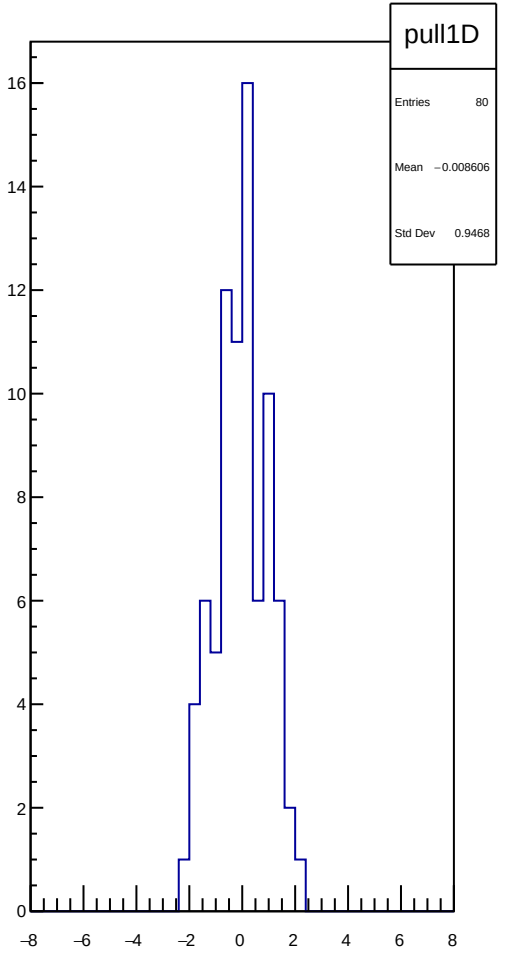

diff_bpm0l01X_rms vs run
χ² / ndf 154.1 / 79
p0 3122 ± 2.501
3200
3150
3100
3050
3000

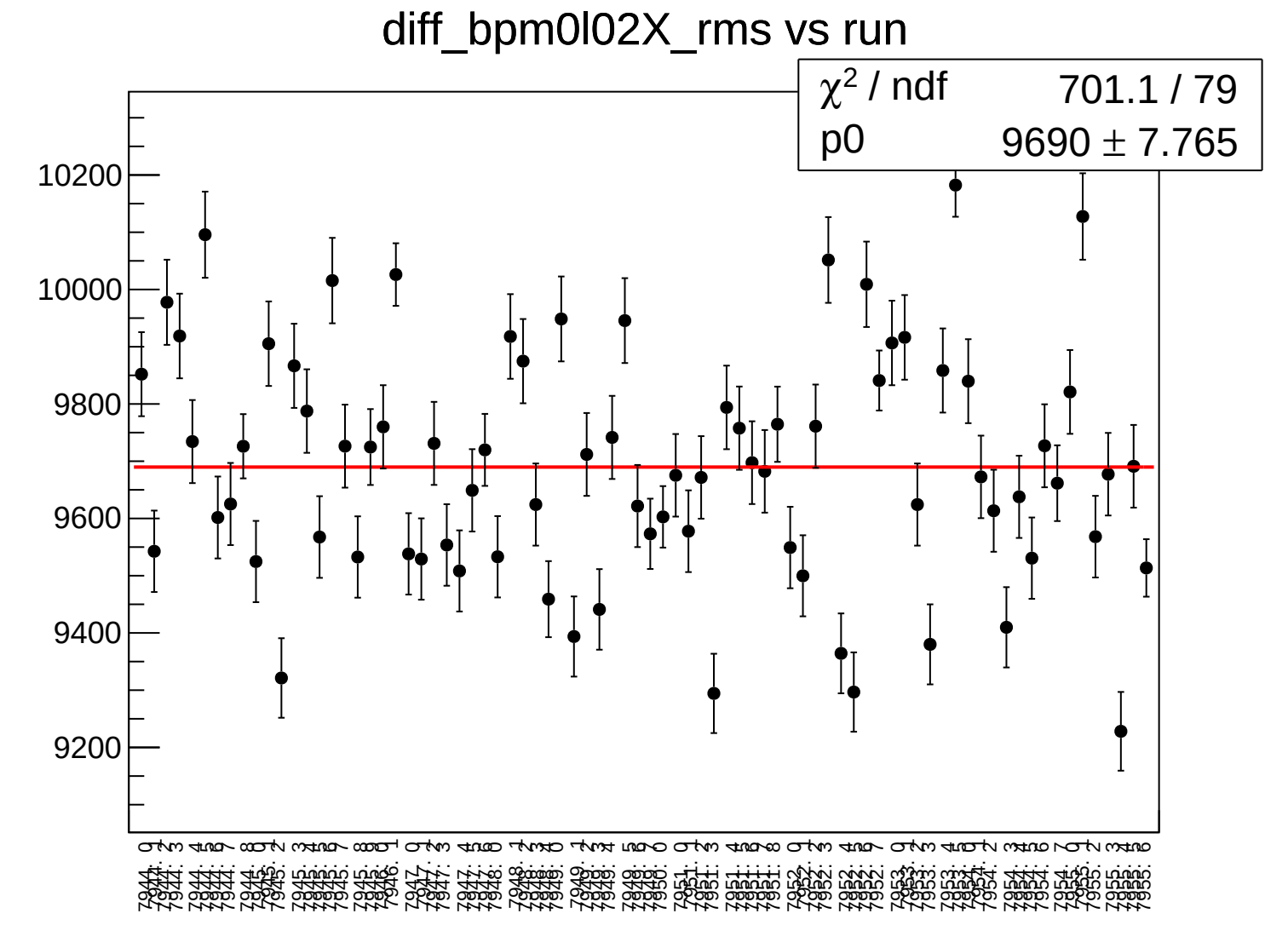

diff_bpm0l01Y_mean vs run
χ² / ndf 84.55 / 79
p0 −3.142 ± 2.398
pull
Entries 80
Mean −1274
Std Dev 1292

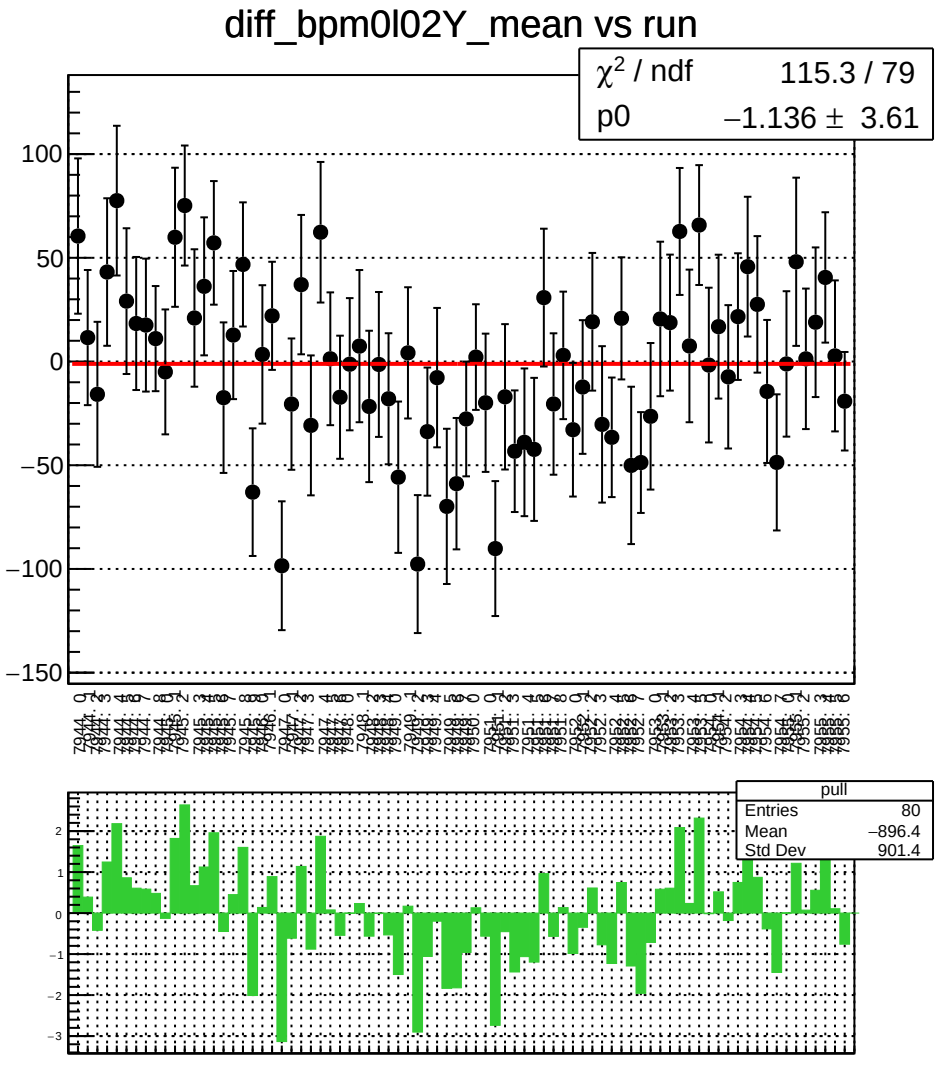

pull1D
Entries 80
Mean 0.003921
Std Dev 1.028

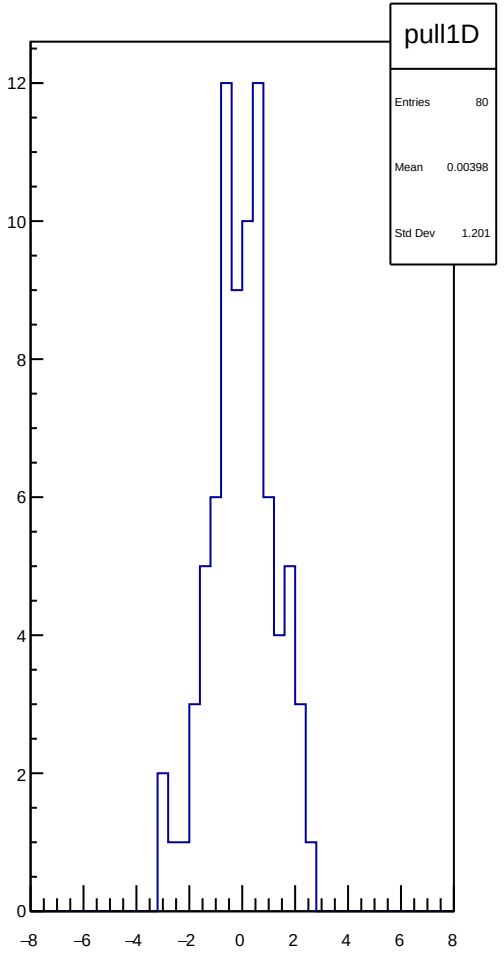

diff_bpm0l01Y_rms vs run
χ² / ndf 3763 / 79
p0 2114 ± 1.695
2700
2600
2500
2400
2300
2200
2100
2000
1900

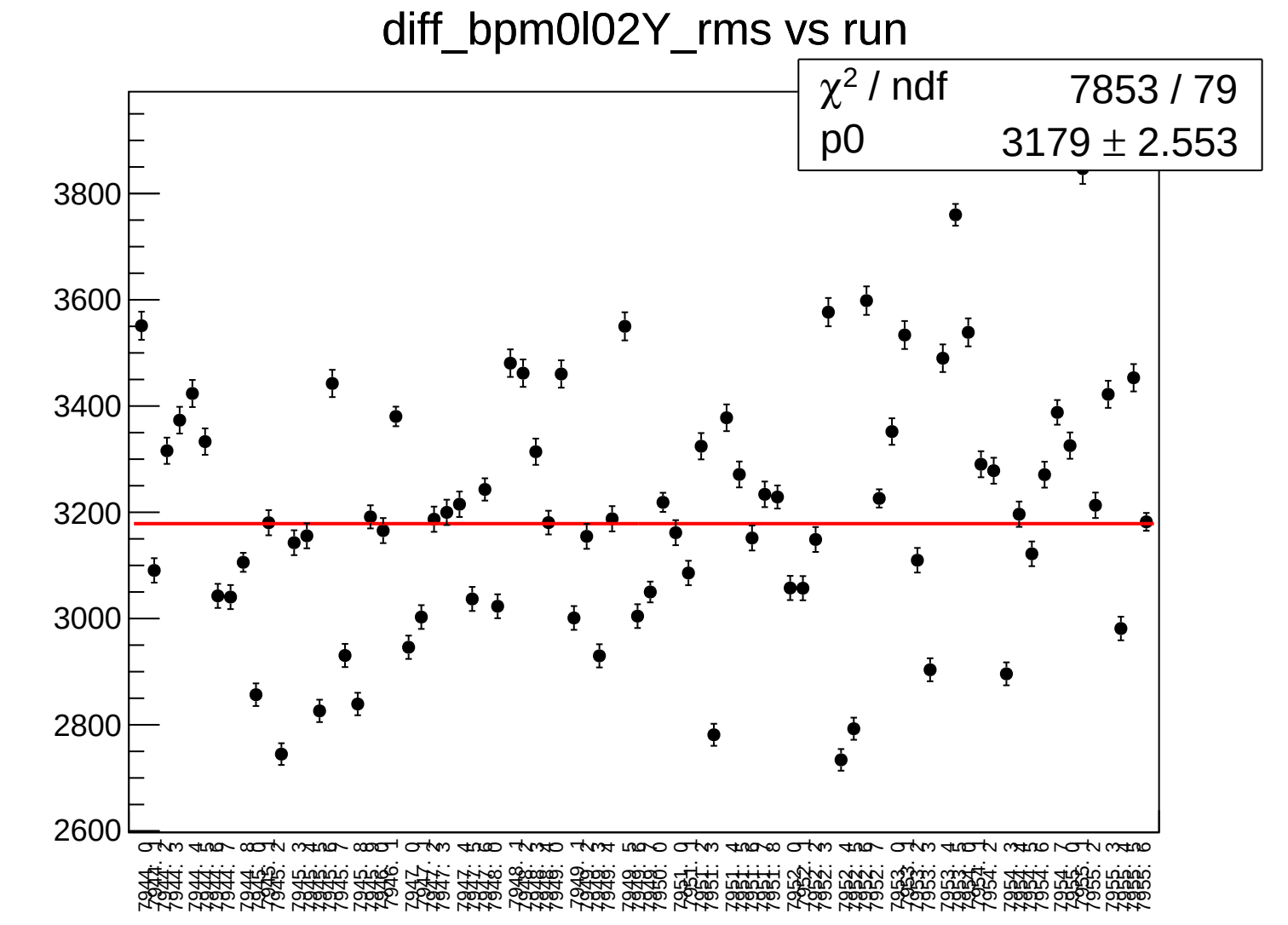

diff_bpm0l02X_mean vs run
χ² / ndf 71.72 / 79
p0 −61.75 ± 10.98
pull
Entries 80
Mean −499.5
Std Dev 523.2

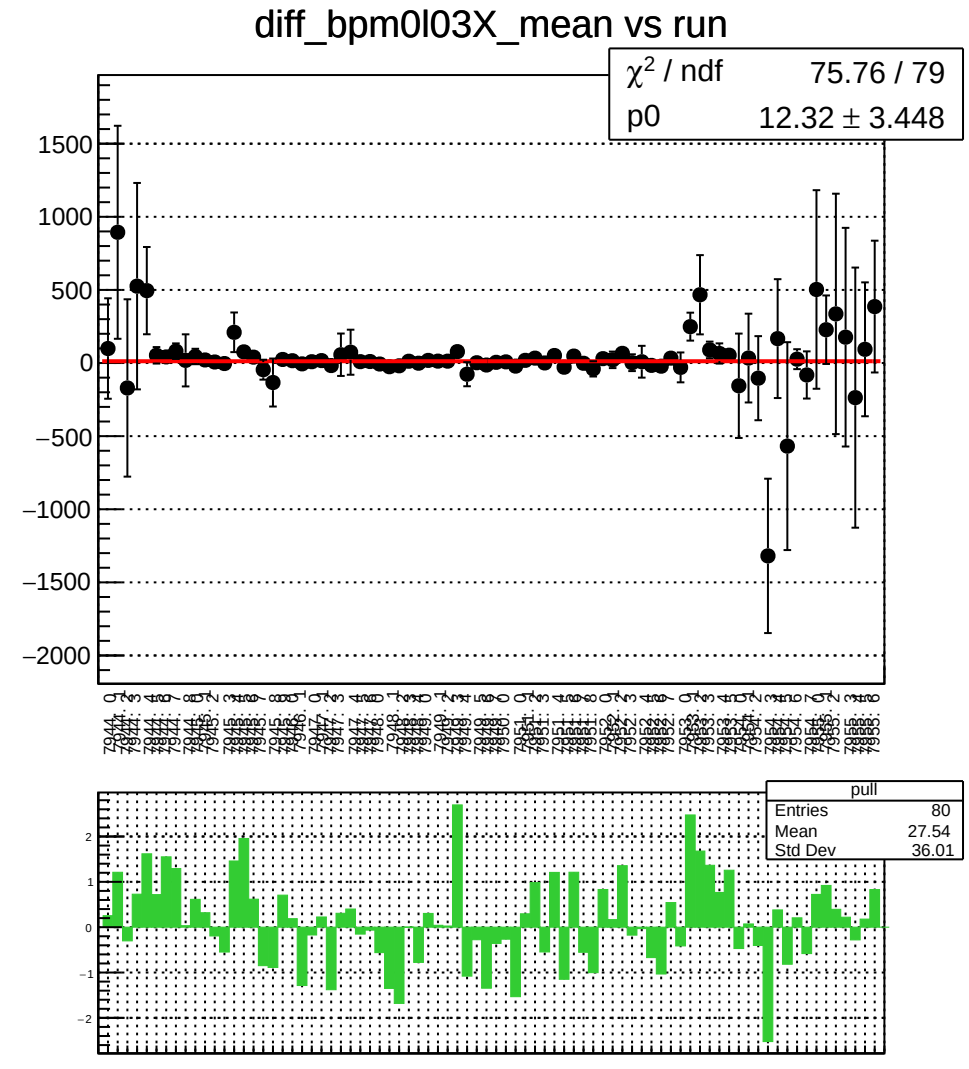

pull1D
Entries 80
Mean −0.008606
Std Dev 0.9468

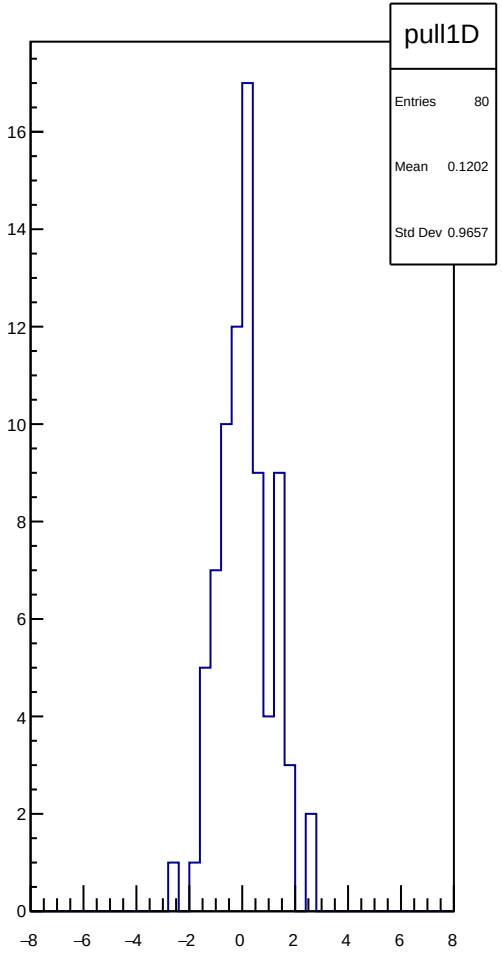

diff_bpm0l02X_rms vs run
χ^2 / ndf 701.1 / 79
p0 9690 ± 7.765
10200
10000
9800
9600
9400
9200

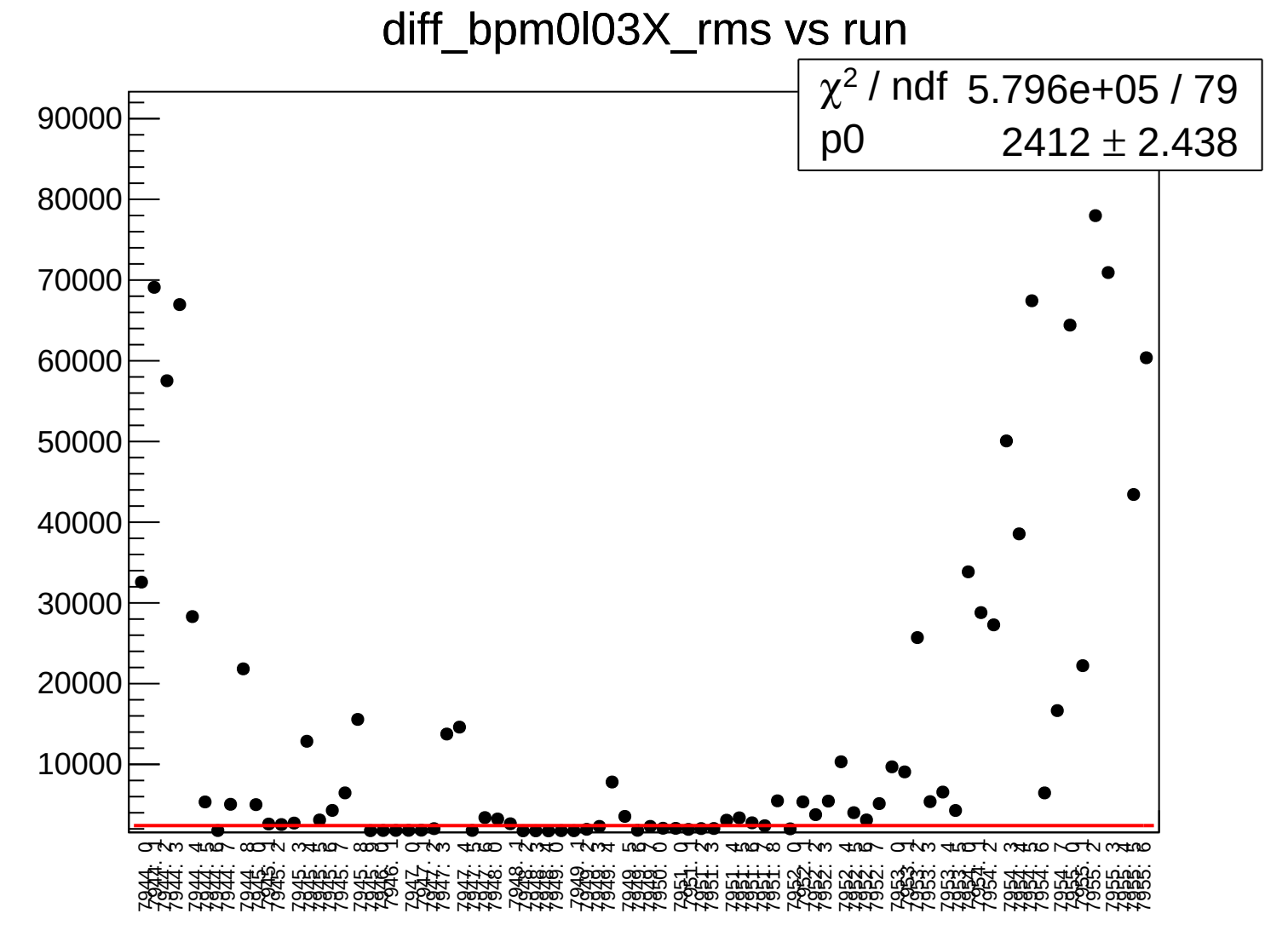

diff_bpm0l02Y_mean vs run
χ² / ndf 115.3 / 79
p0 −1.136 ± 3.61
pull
Entries 80
Mean −896.4
Std Dev 901.4

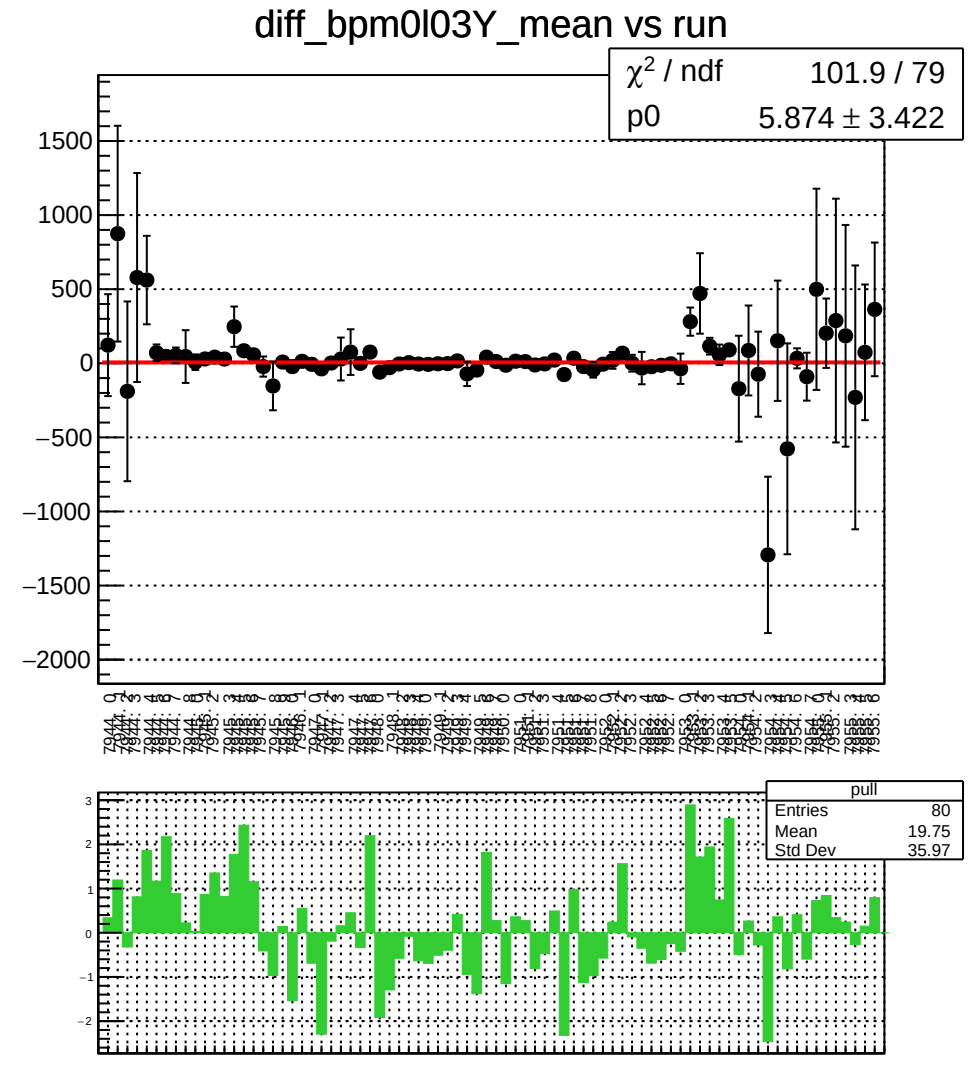

pull1D
Entries 80
Mean 0.00398
Std Dev 1.201

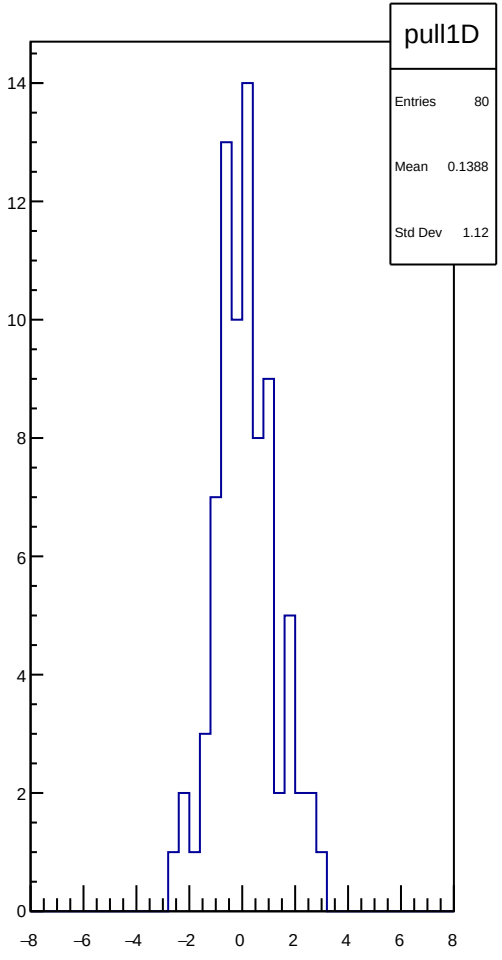

diff_bpm0l02Y_rms vs run
χ² / ndf 7853 / 79
p0 3179 ± 2.553
3800
3600
3400
3200
3000
2800
2600

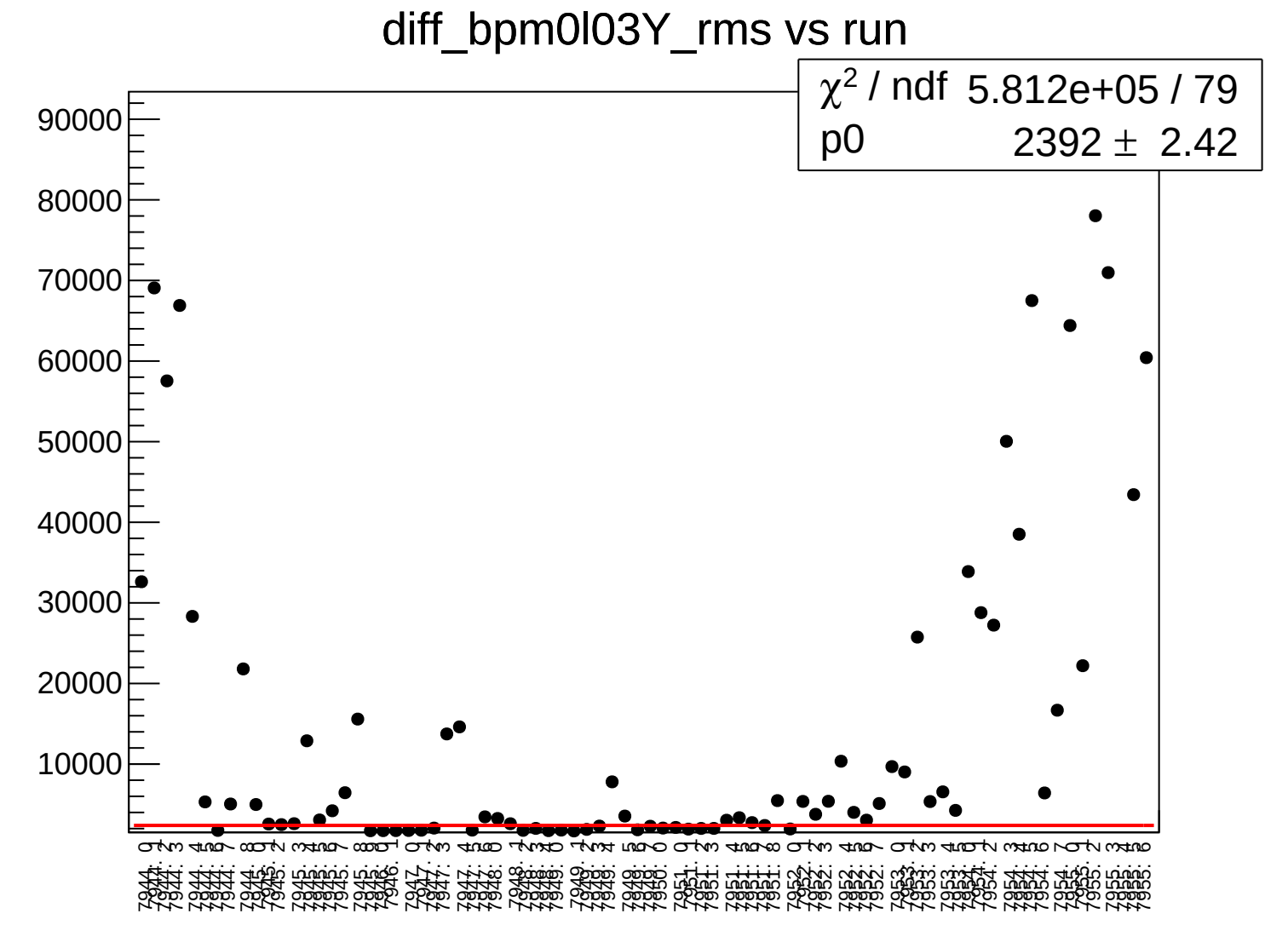

diff_bpm0l03X_mean vs run
χ² / ndf 75.76 / 79
p0 12.32 ± 3.448
pull
Entries 80
Mean 27.54
Std Dev 36.01

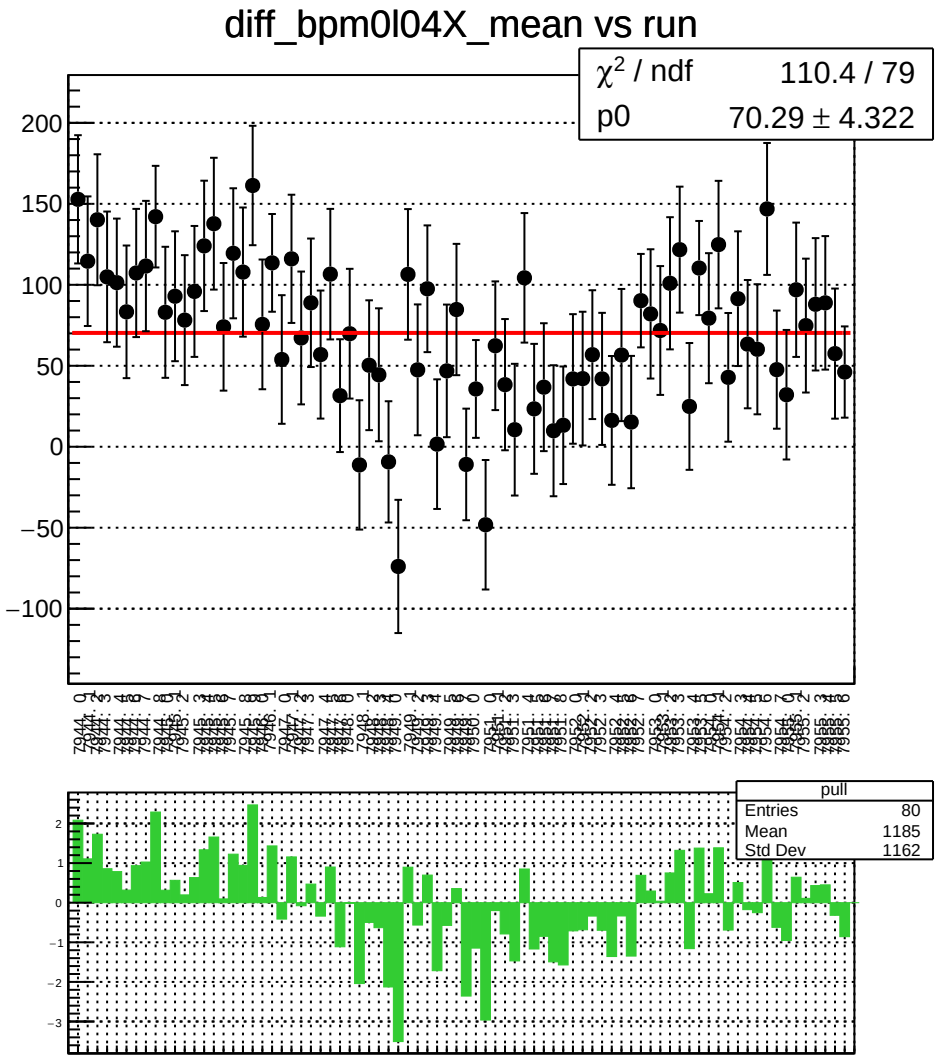

pull1D
Entries 80
Mean 0.1202
Std Dev 0.9657

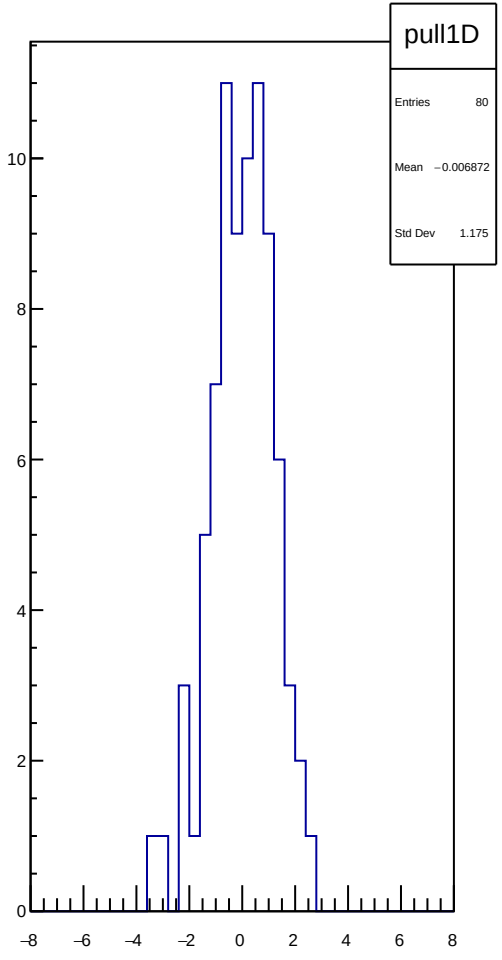

diff_bpm0l03X_rms vs run
χ^2 / ndf 5.796e+05 / 79
p0 2412 ± 2.438
90000
80000
70000
60000
50000
40000
30000
20000
10000

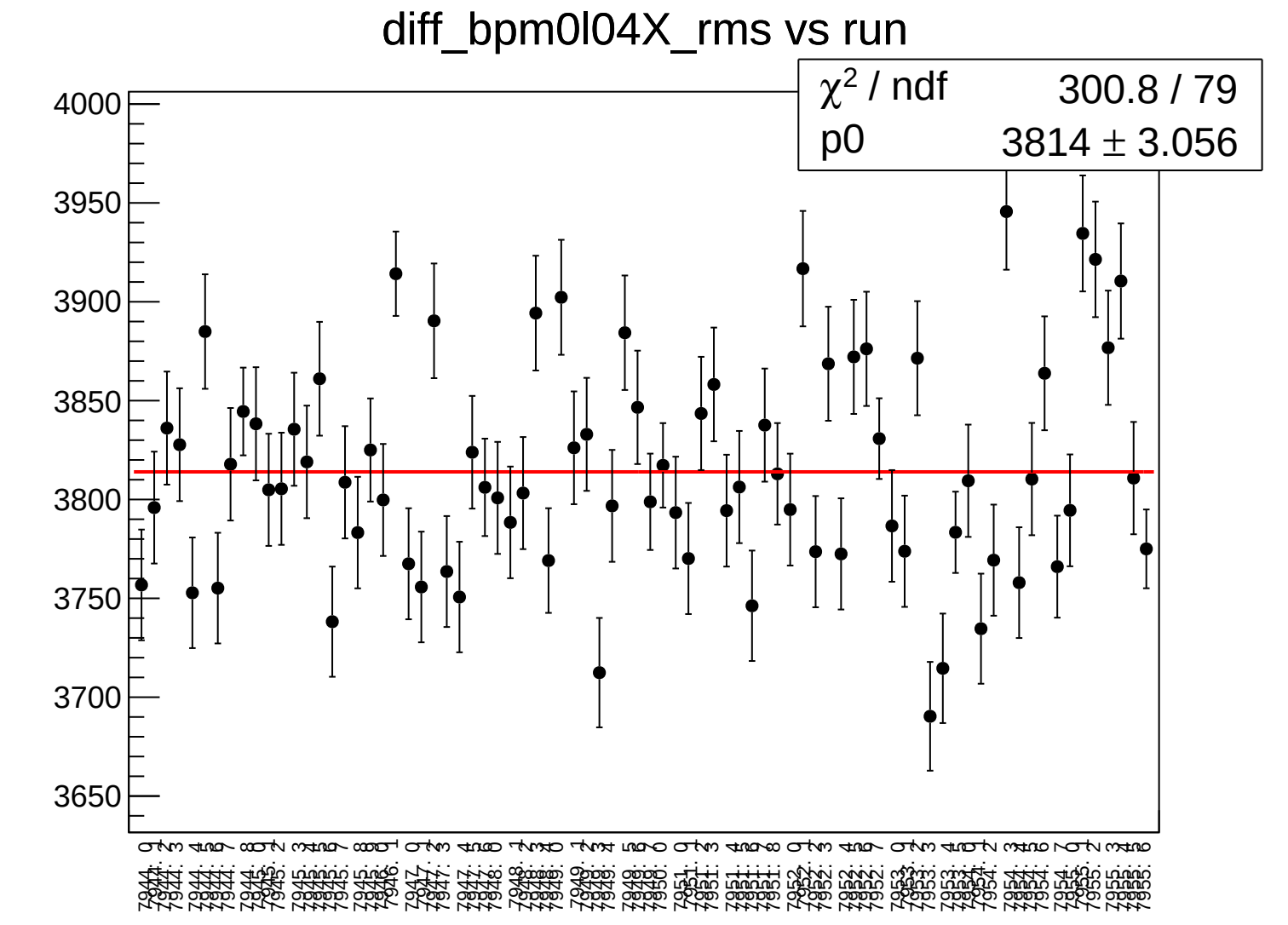

diff_bpm0l03Y_mean vs run
χ² / ndf 101.9 / 79
p0 5.874 ± 3.422
pull
Entries 80
Mean 19.75
Std Dev 35.97

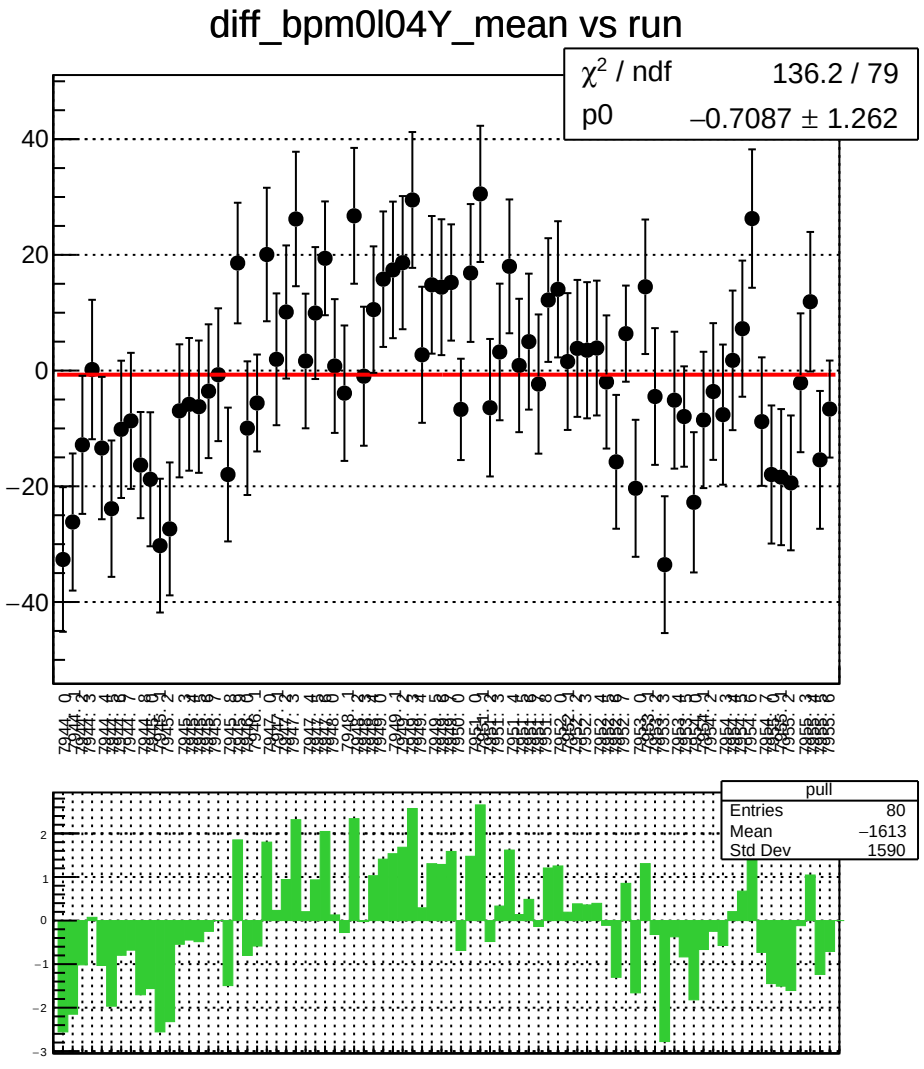

pull1D
Entries 80
Mean 0.1388
Std Dev 1.12

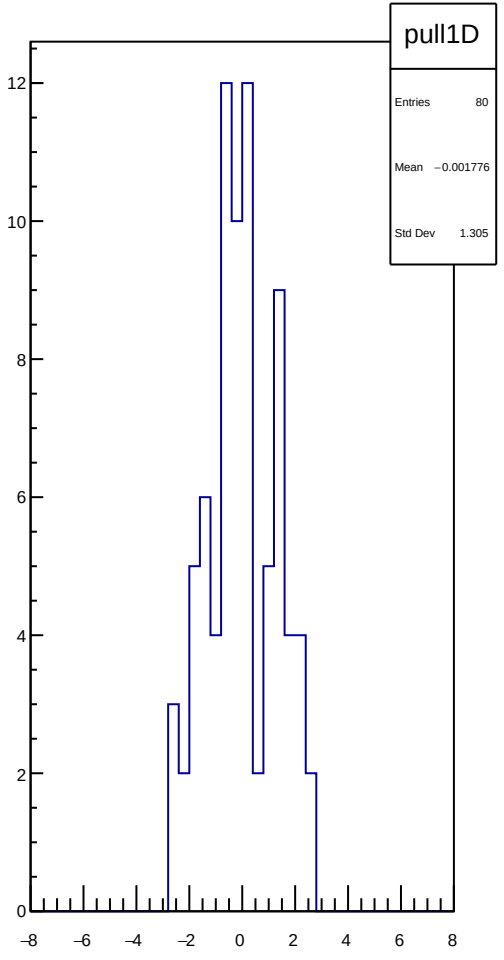

diff_bpm0l03Y_rms vs run
χ^2 / ndf 5.812e+05 / 79
p0 2392 ± 2.42
90000
80000
70000
60000
50000
40000
30000
20000
10000

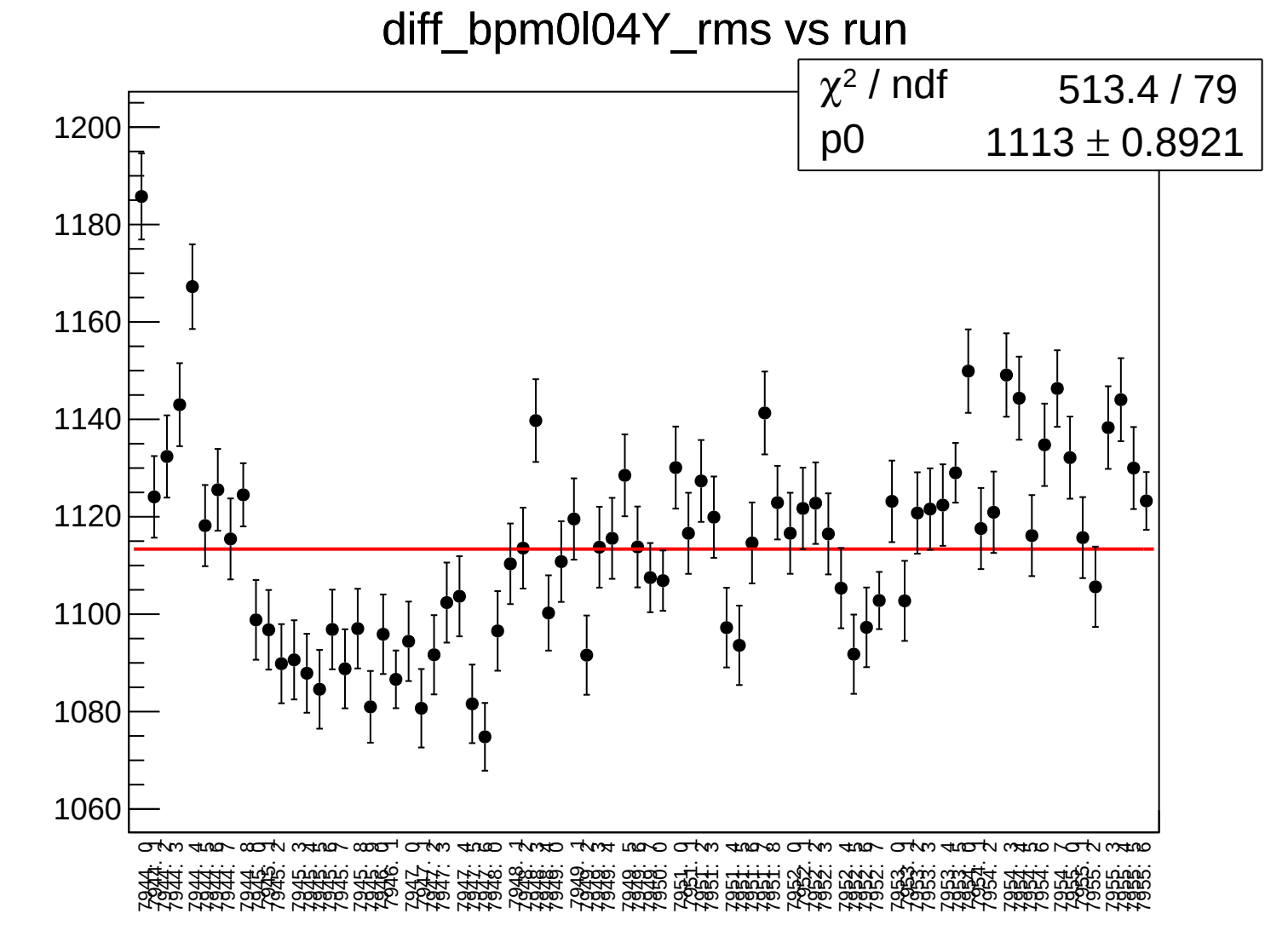

diff_bpm0l04X_mean vs run
χ^2 / ndf 110.4 / 79
p0 70.29 ± 4.322
pull
Entries 80
Mean 1185
Std Dev 1162

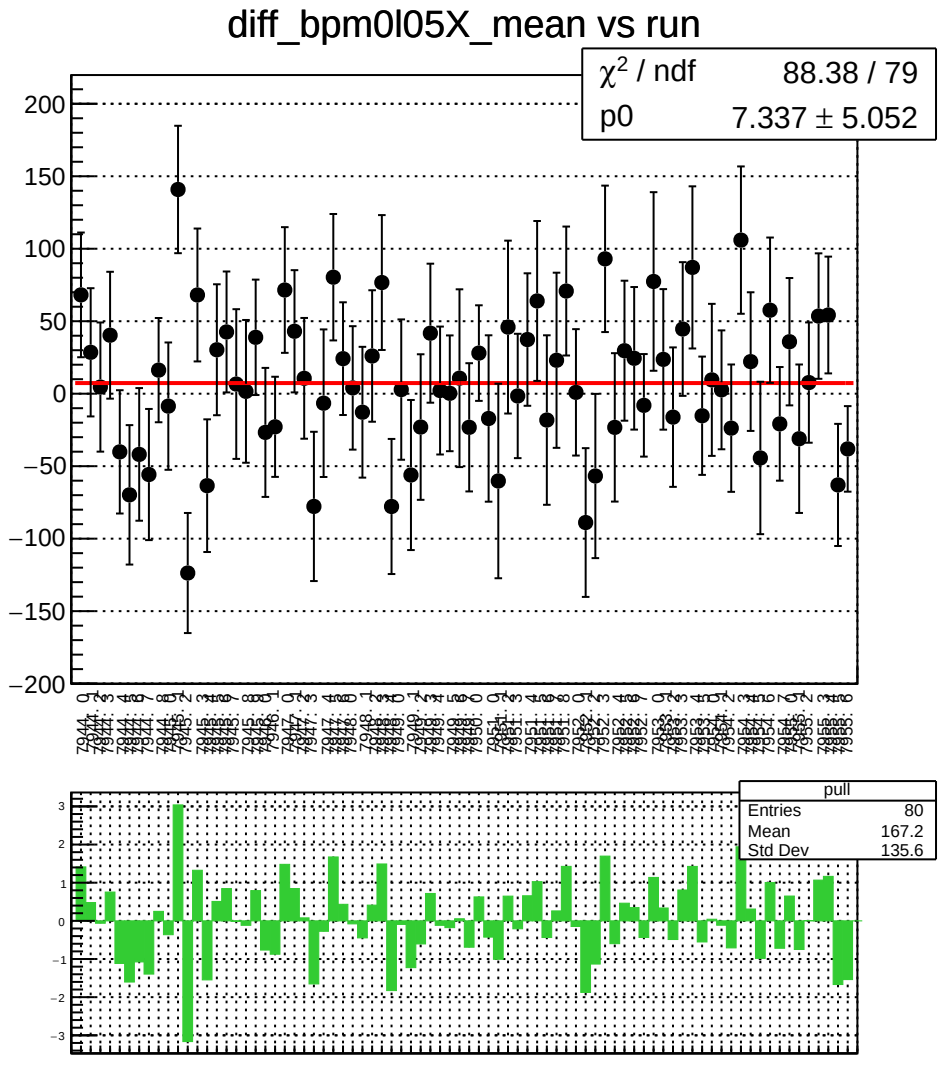

pull1D
Entries 80
Mean −0.006872
Std Dev 1.175

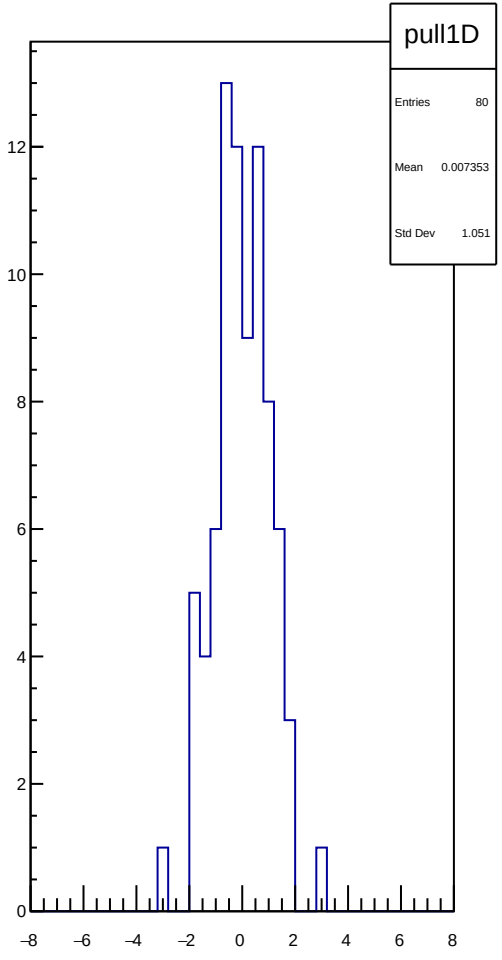

diff_bpm0l04X_rms vs run
χ² / ndf 300.8 / 79
p0 3814 ± 3.056
4000
3950
3900
3850
3800
3750
3700
3650

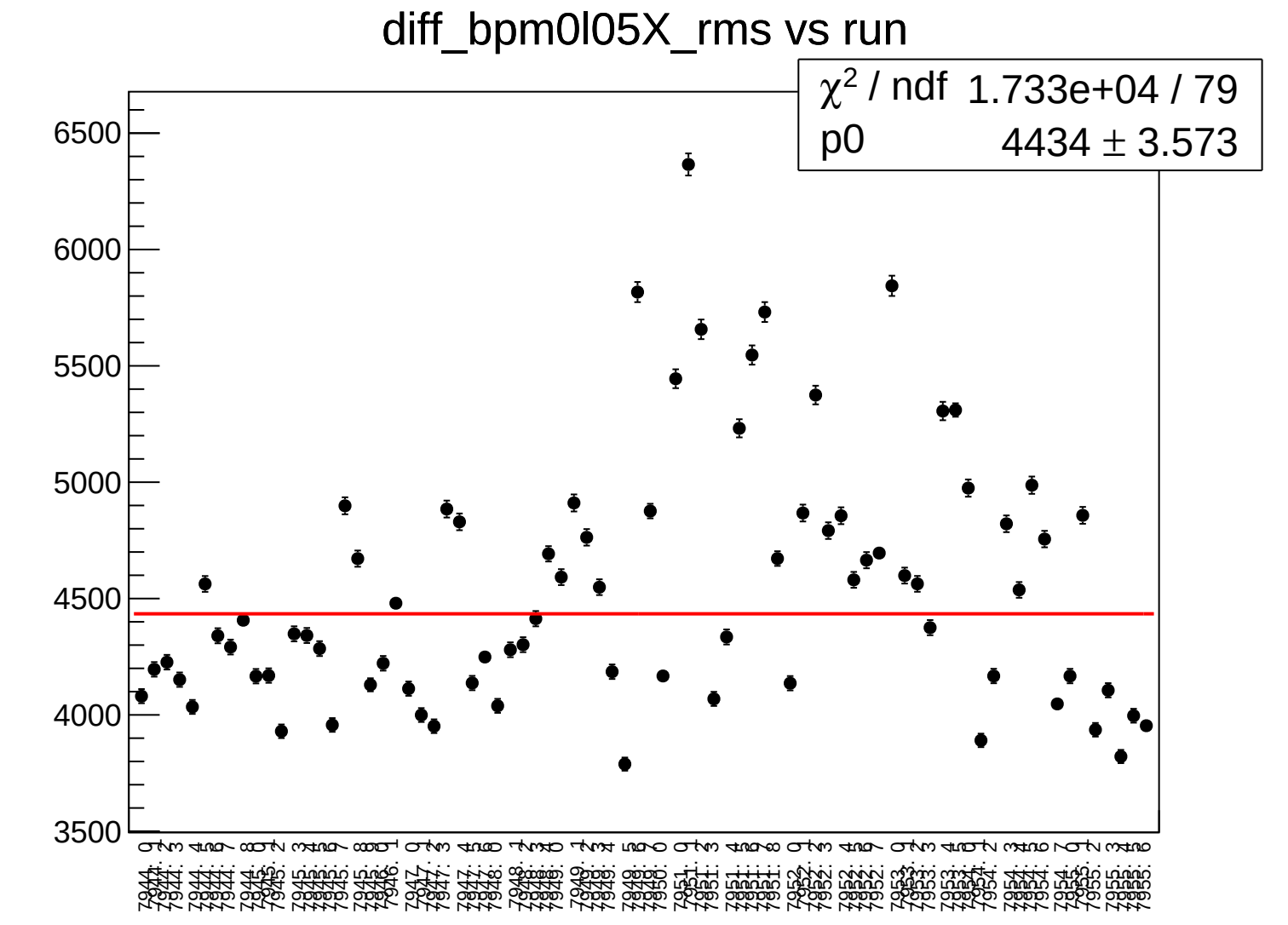

diff_bpm0l04Y_mean vs run
χ² / ndf 136.2 / 79
p0 −0.7087 ± 1.262
pull
Entries 80
Mean −1613
Std Dev 1590

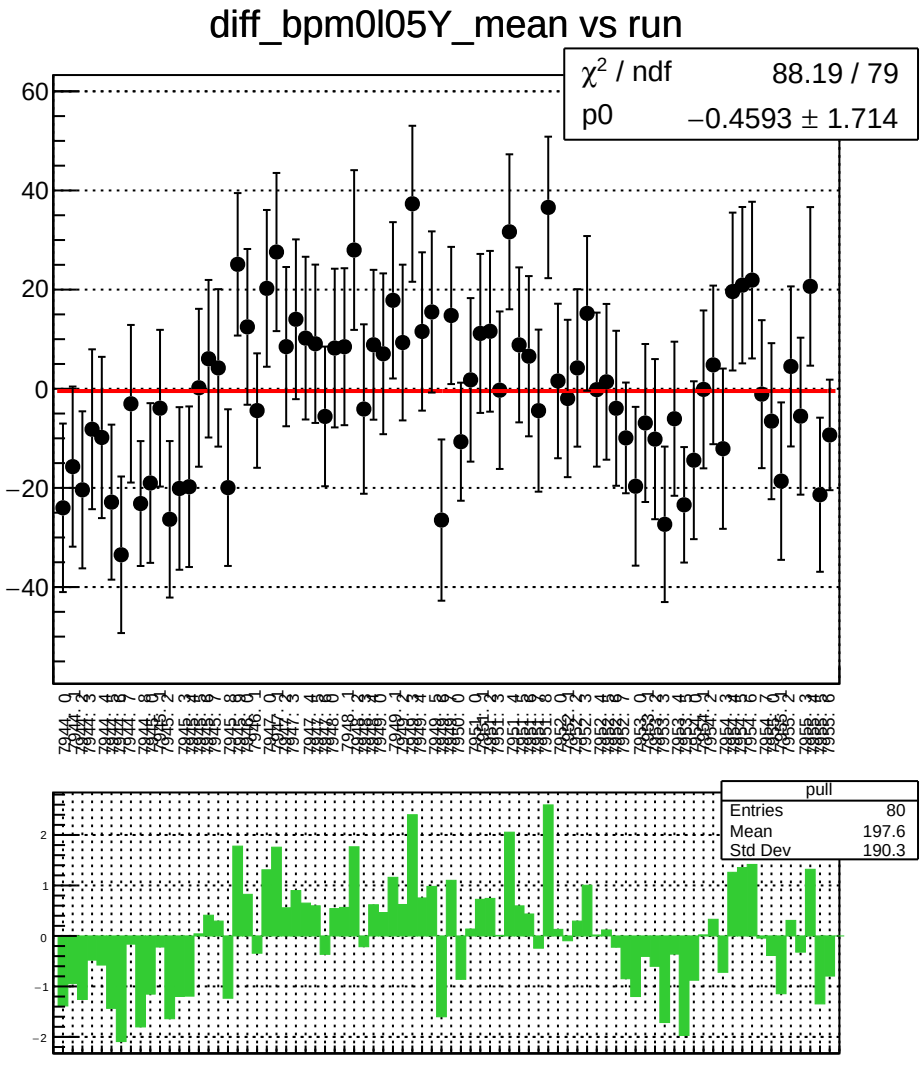

pull1D
Entries 80
Mean −0.001776
Std Dev 1.305

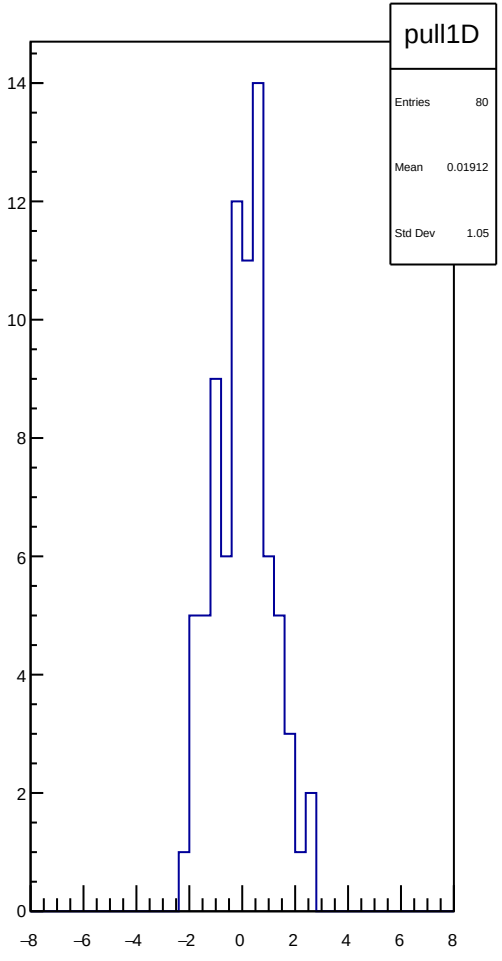

diff_bpm0l04Y_rms vs run
χ² / ndf 513.4 / 79
p0 1113 ± 0.8921
1200
1180
1160
1140
1120
1100
1080
1060

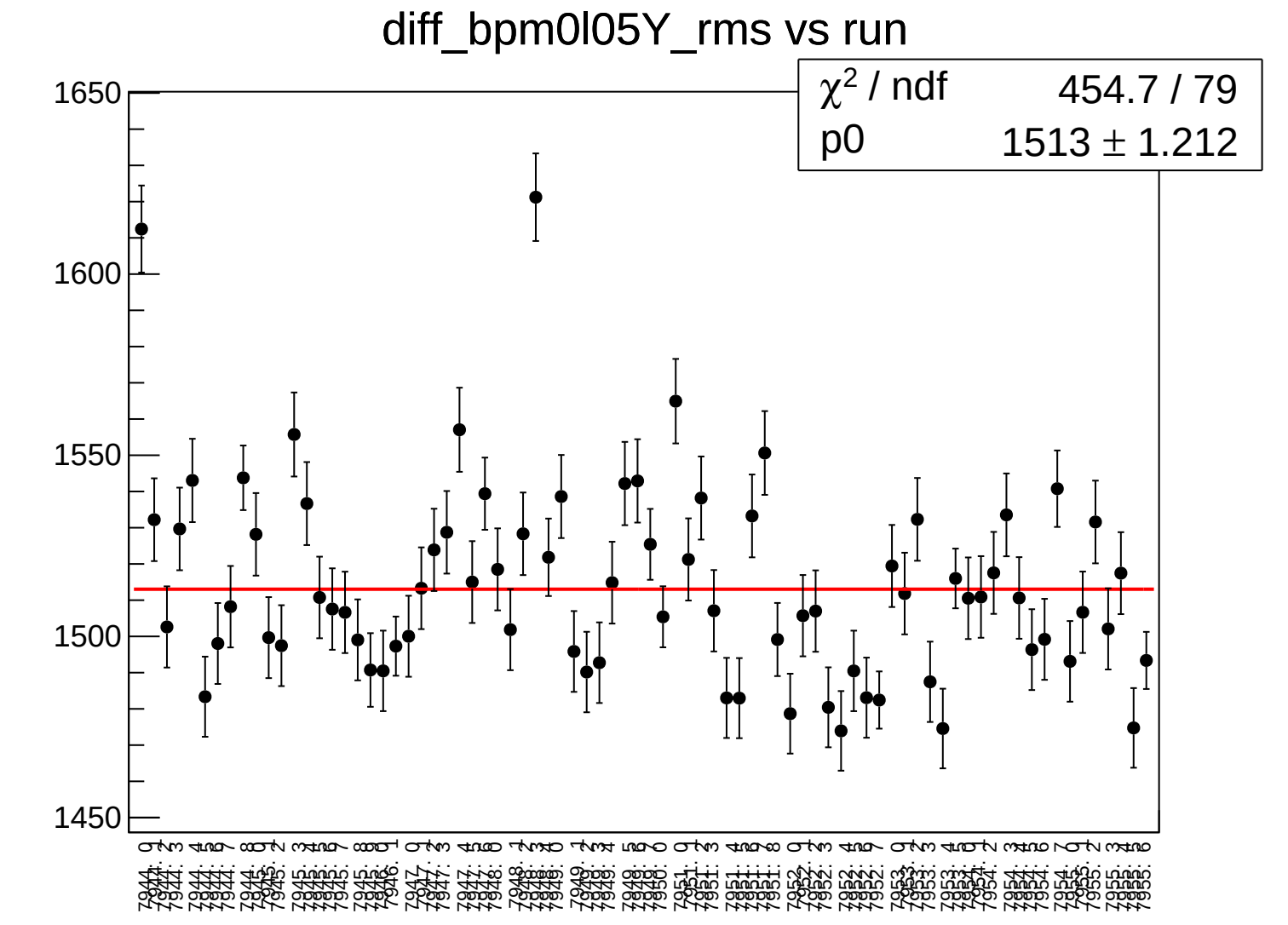

diff_bpm0l05X_mean vs run
χ² / ndf 88.38 / 79
p0 7.337 ± 5.052
pull
Entries 80
Mean 167.2
Std Dev 135.6

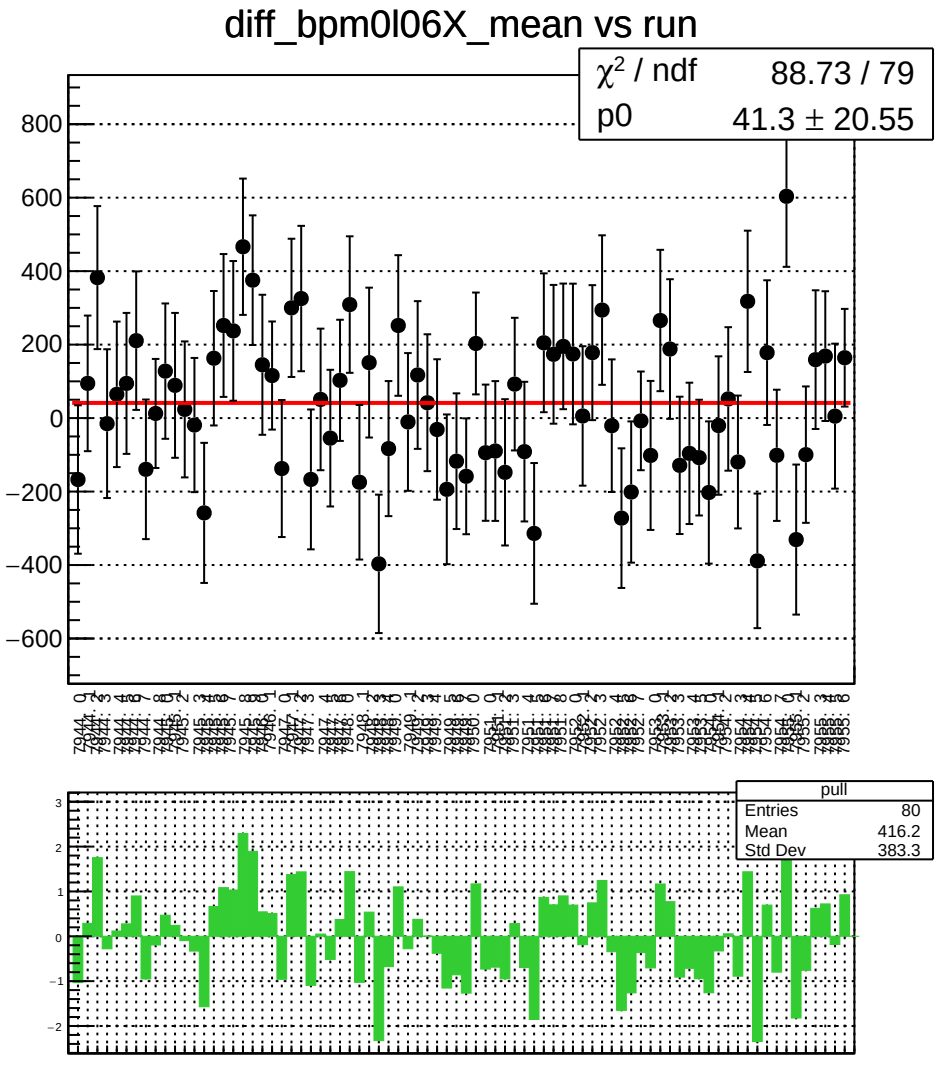

pull1D
Entries 80
Mean 0.007353
Std Dev 1.051

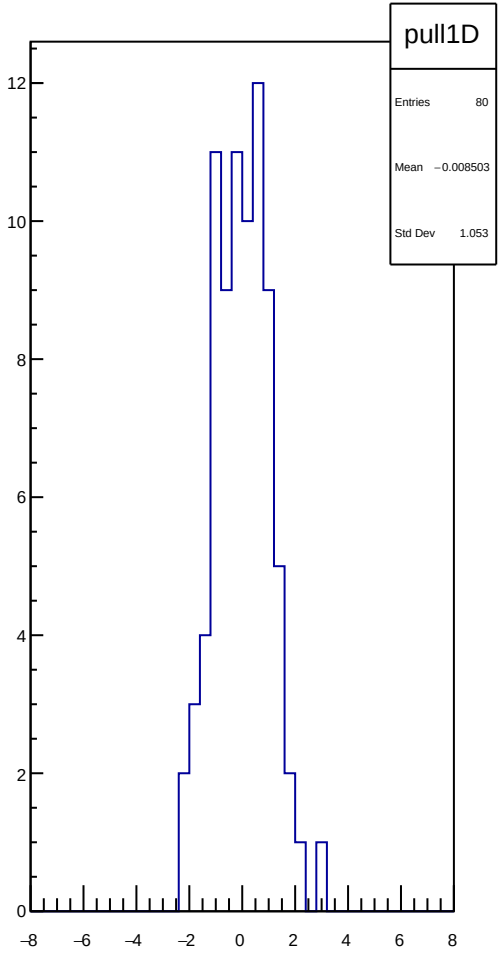

diff_bpm0l05X_rms vs run
χ² / ndf 1.733e+04 / 79
p0 4434 ± 3.573
6500
6000
5500
5000
4500
4000
3500

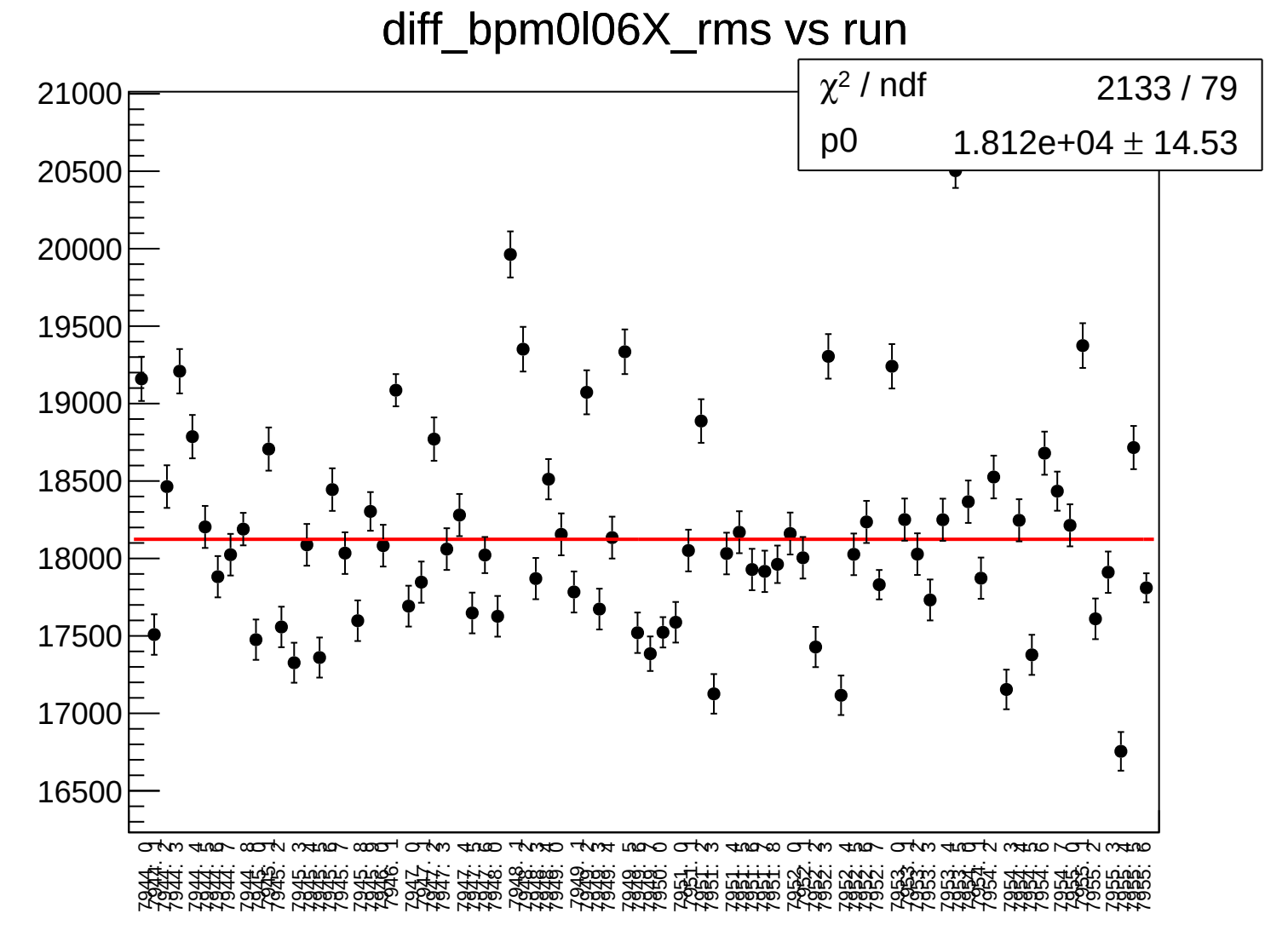

diff_bpm0l05Y_mean vs run
χ² / ndf 88.19 / 79
p0 −0.4593 ± 1.714
pull
Entries 80
Mean 197.6
Std Dev 190.3

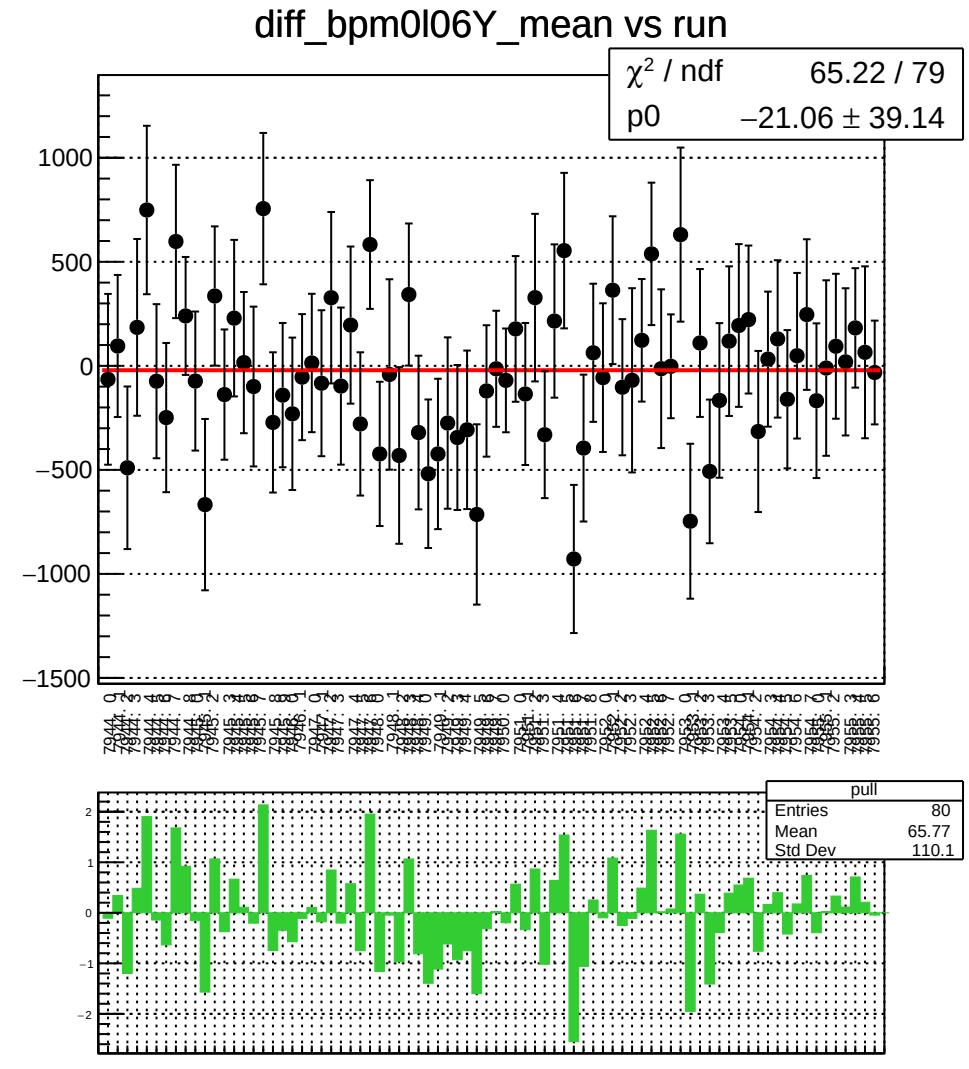

pull1D
Entries 80
Mean 0.01912
Std Dev 1.05

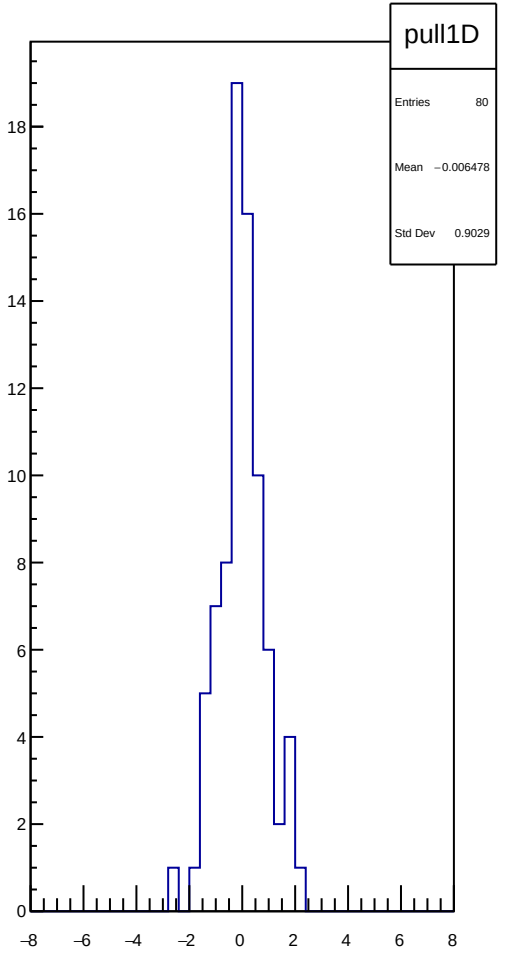

diff_bpm0l05Y_rms vs run
χ² / ndf 454.7 / 79
p0 1513 ± 1.212
1650
1600
1550
1500
1450

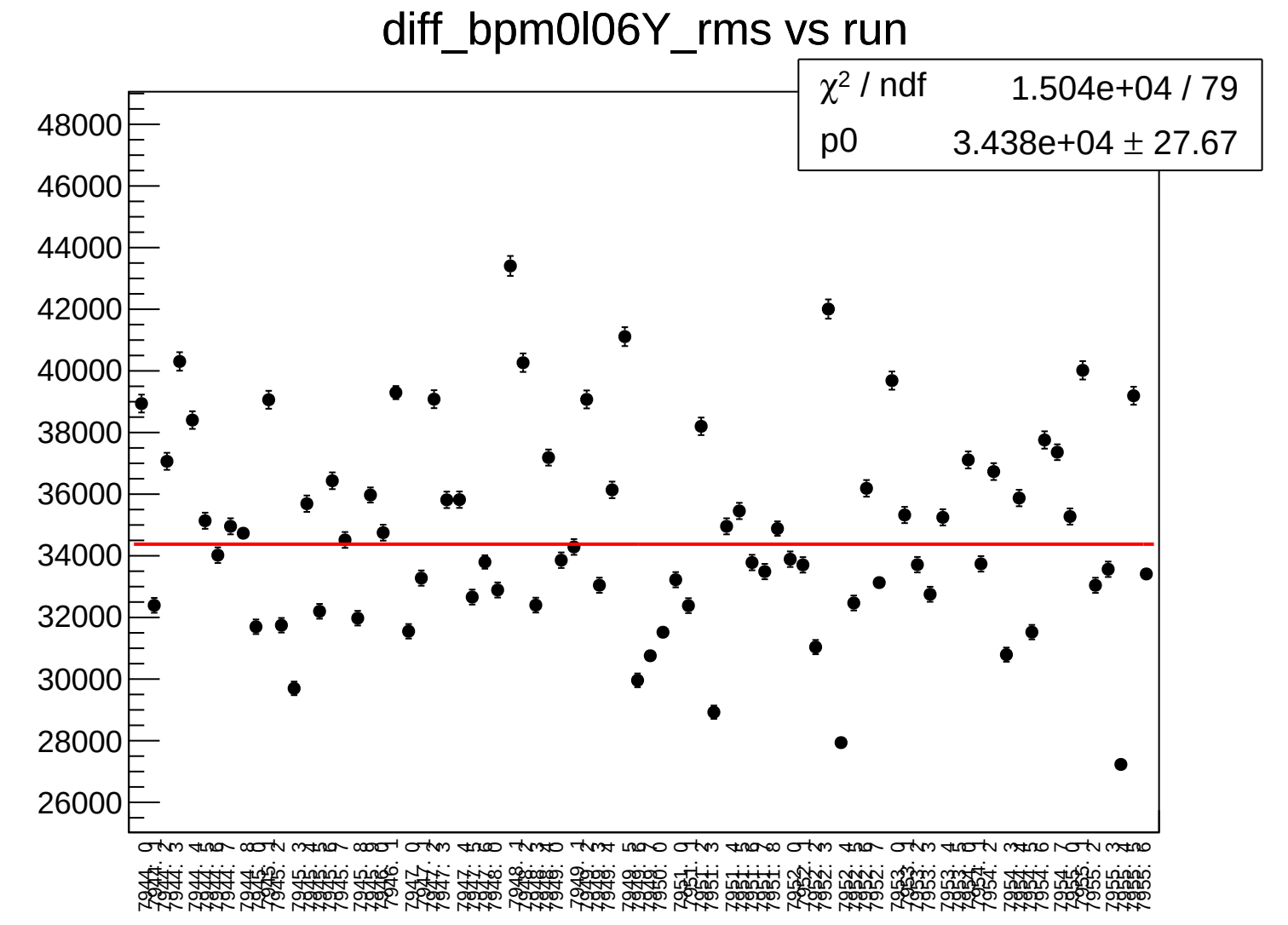

diff_bpm0l06X_mean vs run
χ² / ndf 88.73 / 79
p0 41.3 ± 20.55
pull
Entries 80
Mean 416.2
Std Dev 383.3

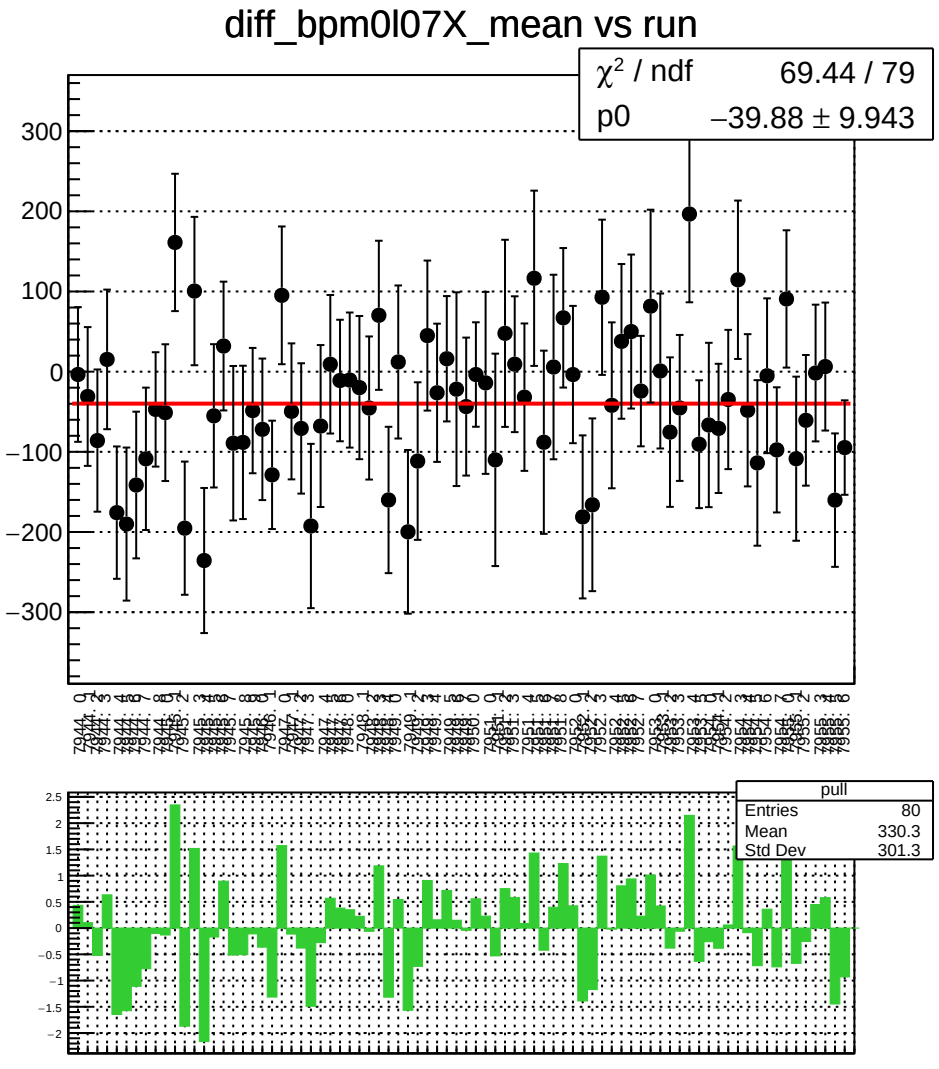

pull1D
Entries 80
Mean −0.008503
Std Dev 1.053

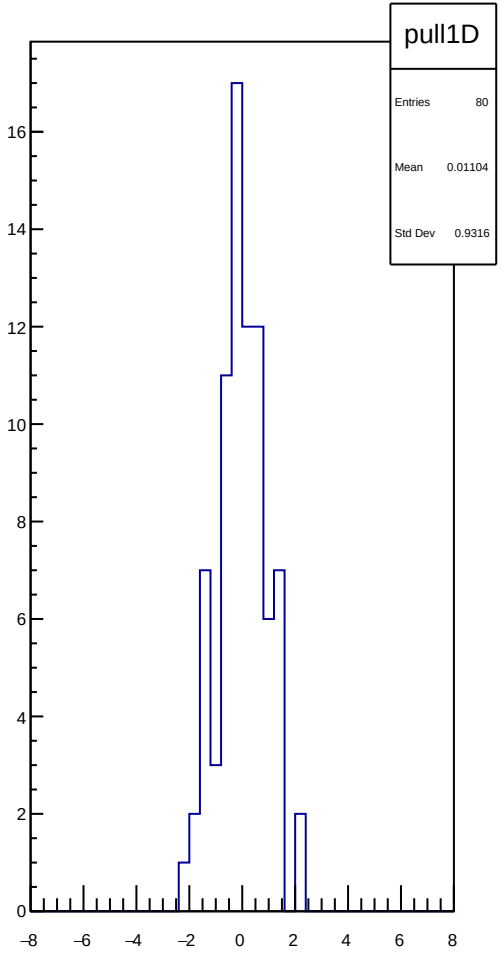

diff_bpm0l06X_rms vs run
χ² / ndf 2133 / 79
p0 1.812e+04 ± 14.53
21000
20500
20000
19500
19000
18500
18000
17500
17000
16500

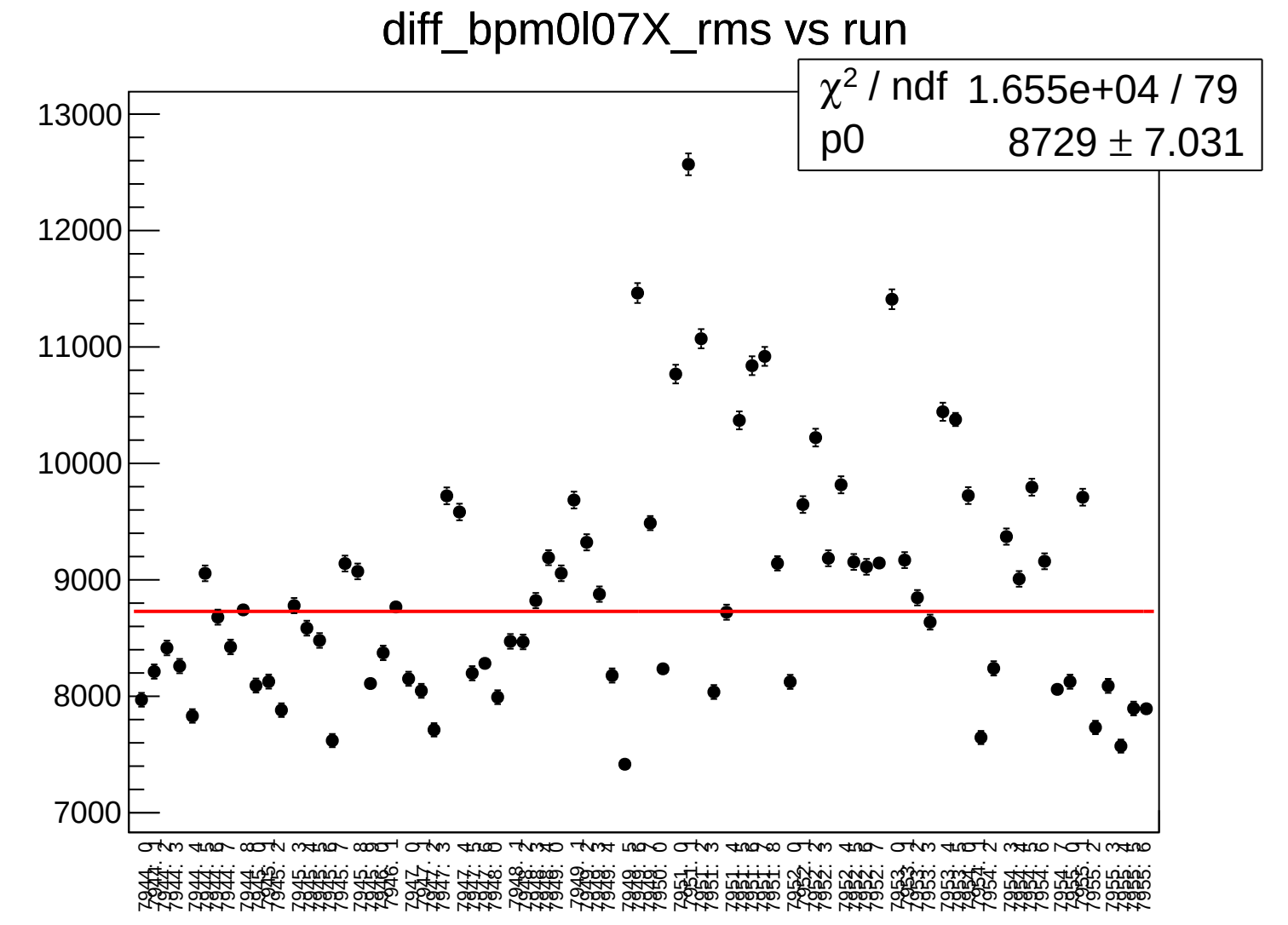

diff_bpm0l06Y_mean vs run
χ² / ndf 65.22 / 79
p0 −21.06 ± 39.14
pull
Entries 80
Mean 65.77
Std Dev 110.1

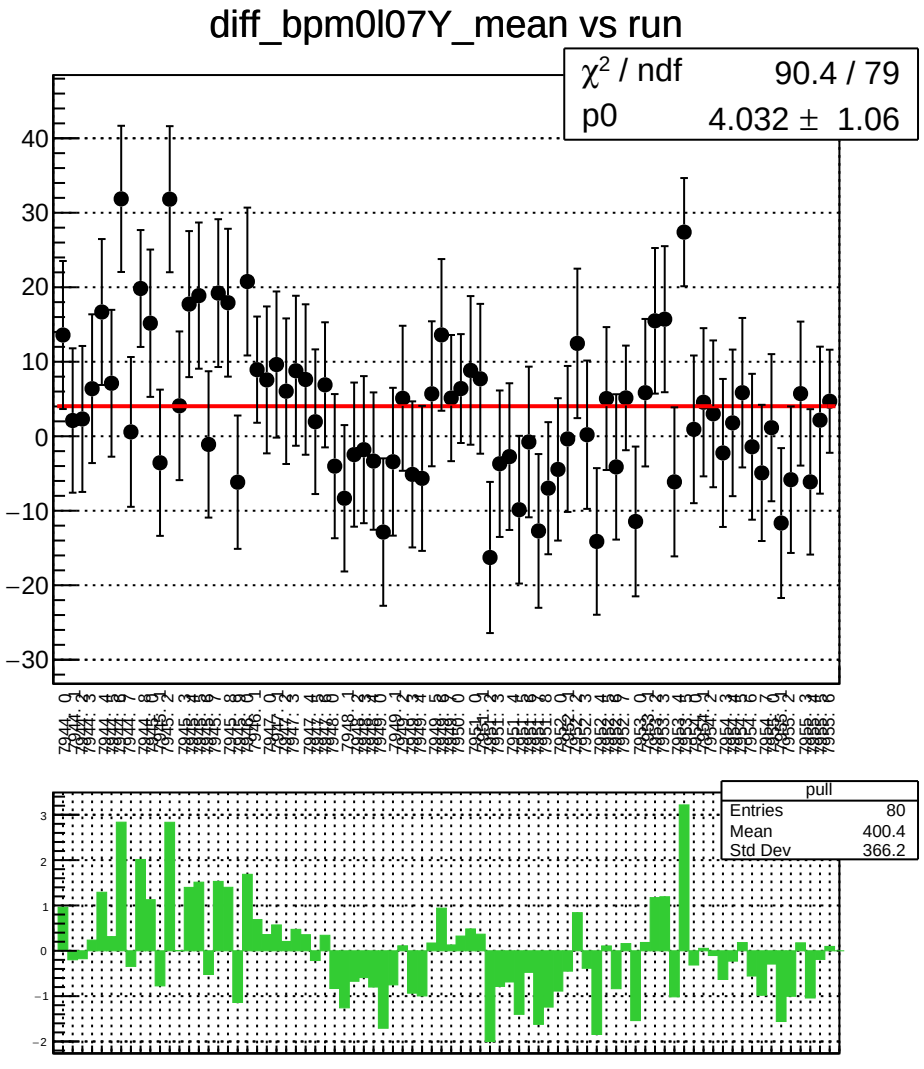

pull1D
Entries 80
Mean −0.006478
Std Dev 0.9029

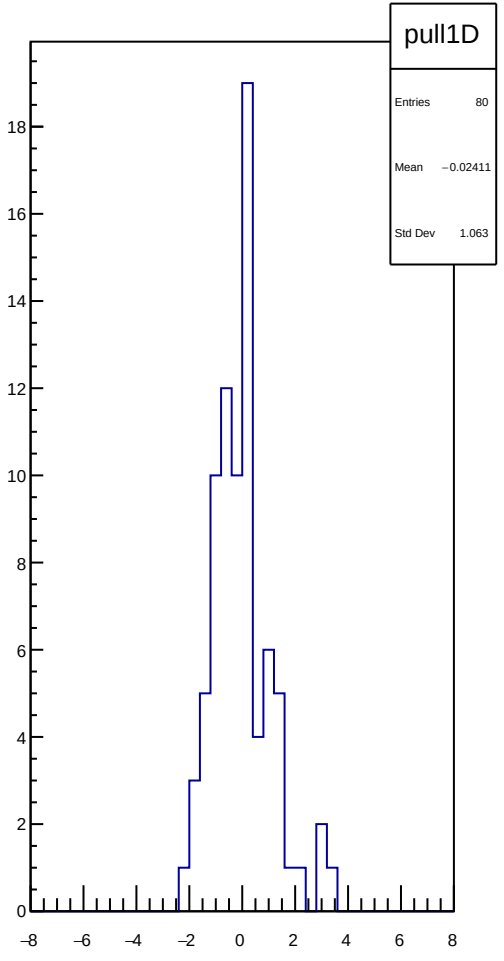

diff_bpm0l06Y_rms vs run
χ² / ndf 1.504e+04 / 79
p0 3.438e+04 ± 27.67
48000
46000
44000
42000
40000
38000
36000
34000
32000
30000
28000
26000

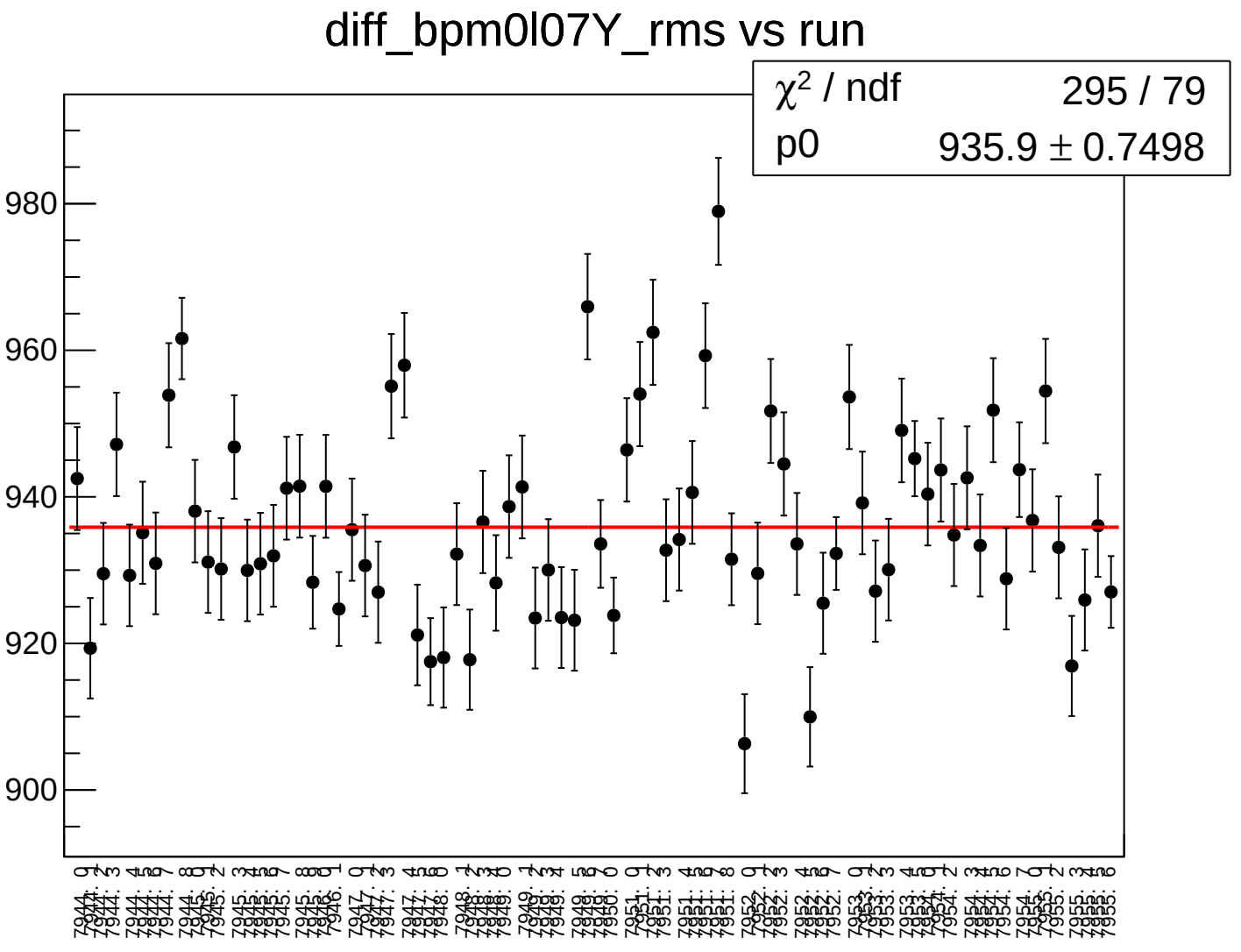

diff_bpm0l07X_mean vs run
χ² / ndf 69.44 / 79
p0 −39.88 ± 9.943
pull
Entries 80
Mean 330.3
Std Dev 301.3

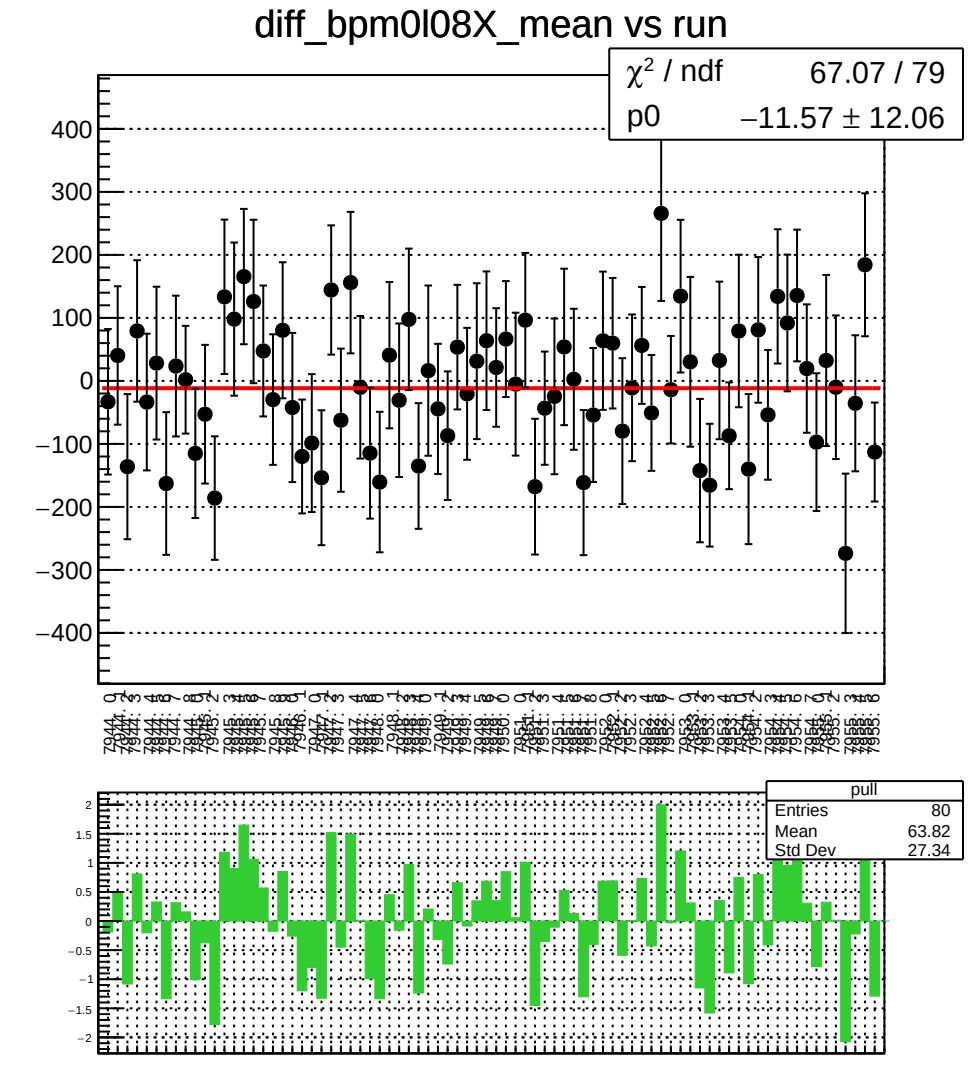

pull1D
Entries 80
Mean 0.01104
Std Dev 0.9316

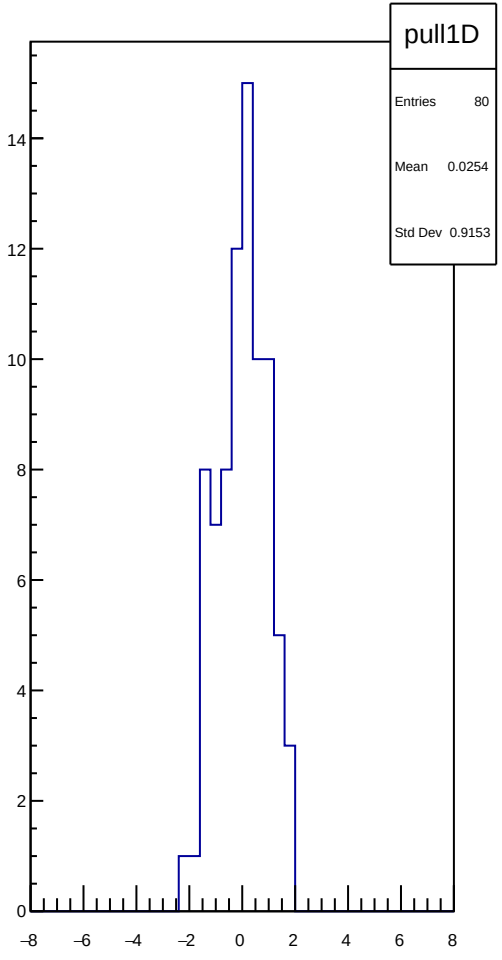

diff_bpm0l07X_rms vs run
χ² / ndf 1.655e+04 / 79
p0 8729 ± 7.031
13000
12000
11000
10000
9000
8000
7000

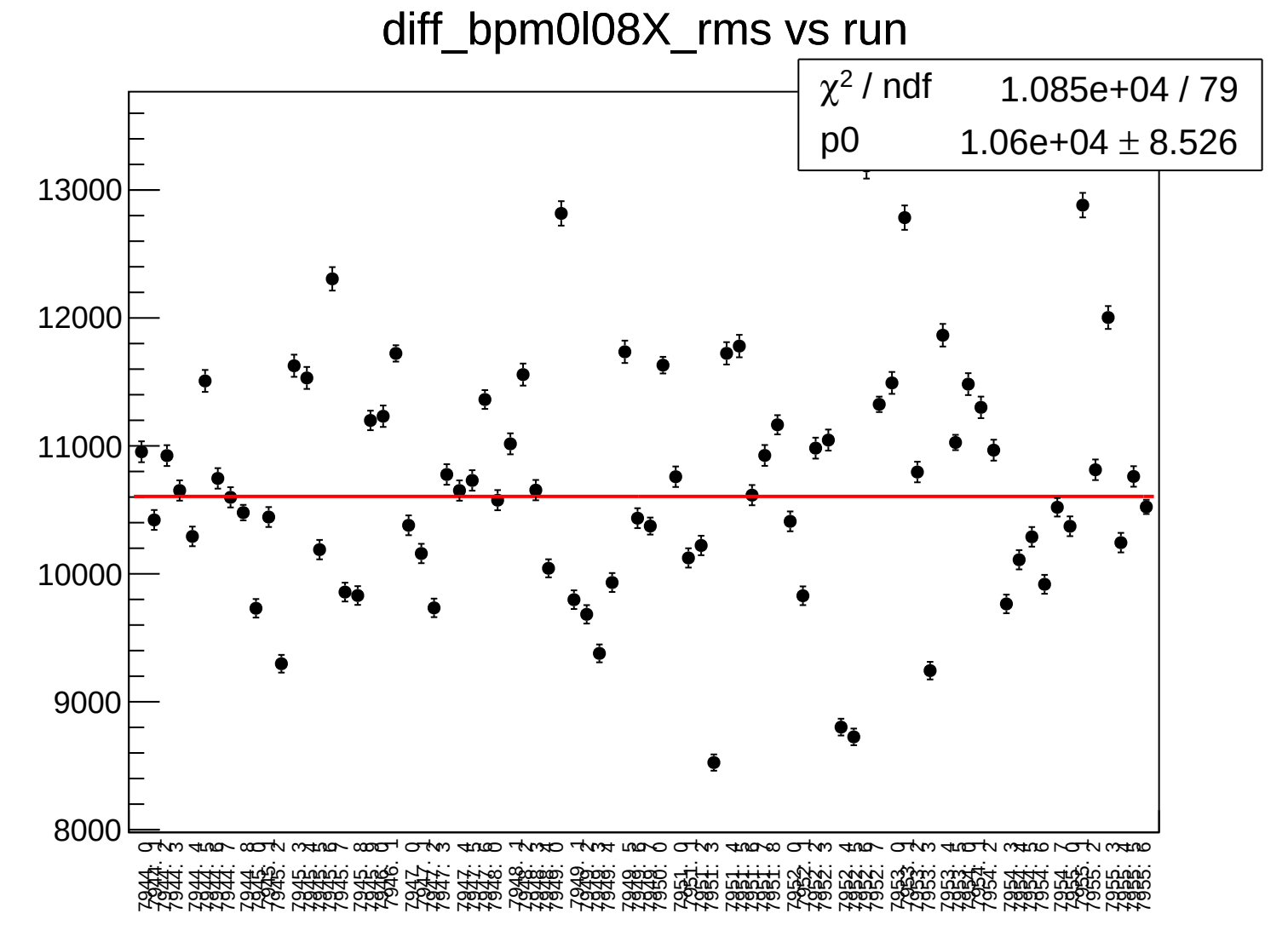

diff_bpm0l07Y_mean vs run
χ² / ndf 90.4 / 79
p0 4.032 ± 1.06
pull
Entries 80
Mean 400.4
Std Dev 366.2

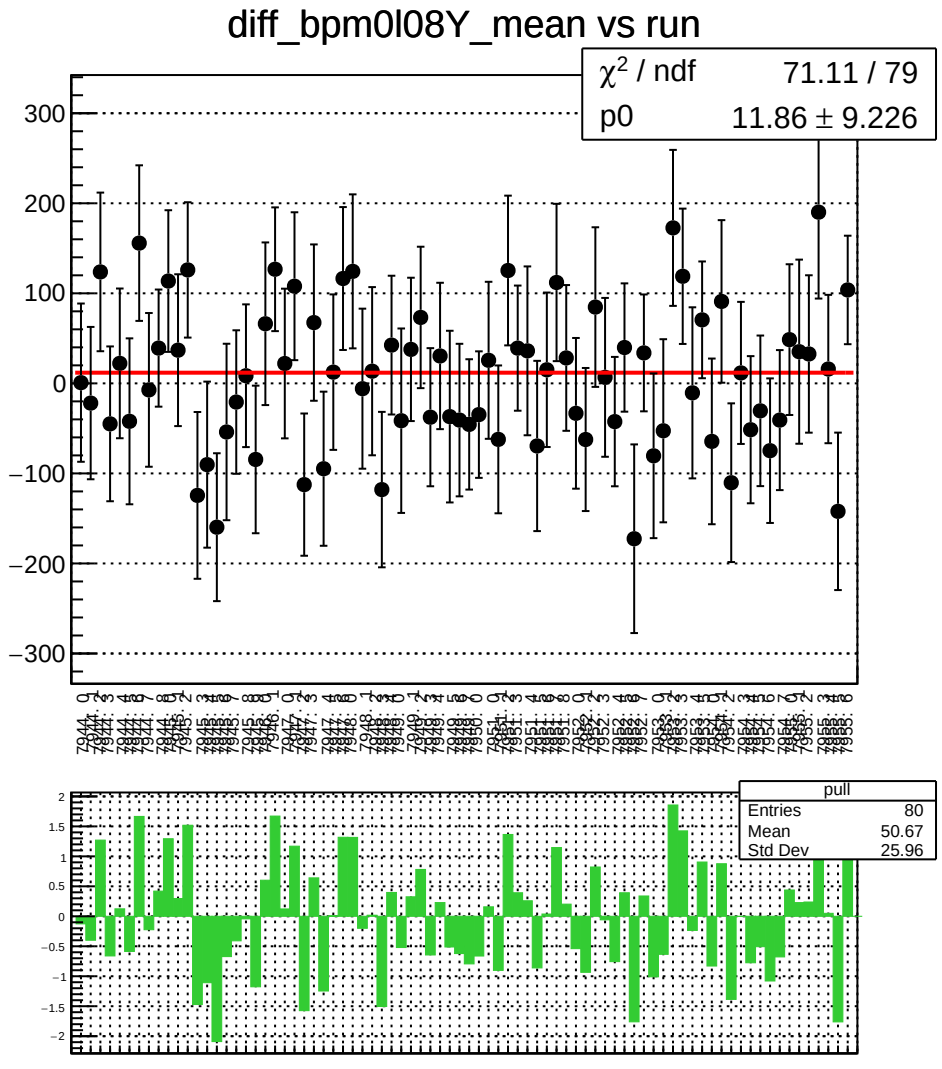

pull1D
Entries 80
Mean −0.02411
Std Dev 1.063

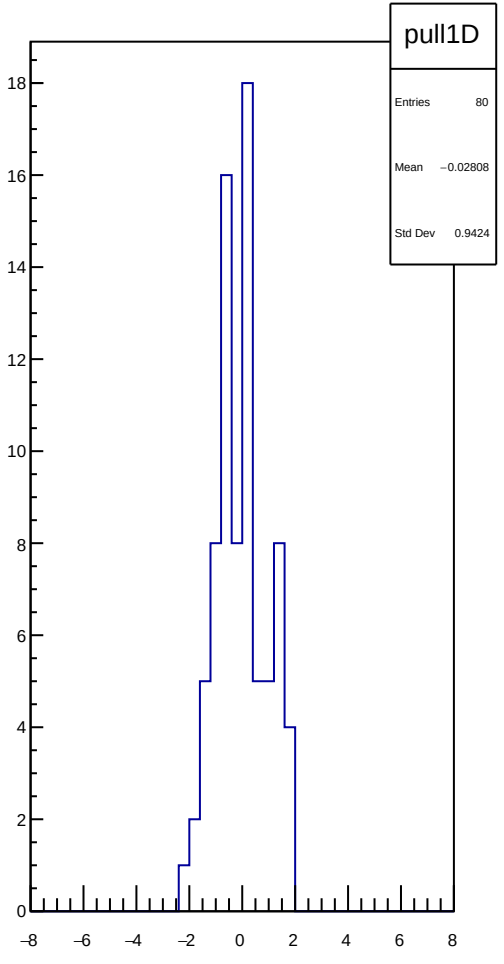

diff_bpm0l07Y_rms vs run
χ² / ndf 295 / 79
p0 935.9 ± 0.7498
980
960
940
920
900

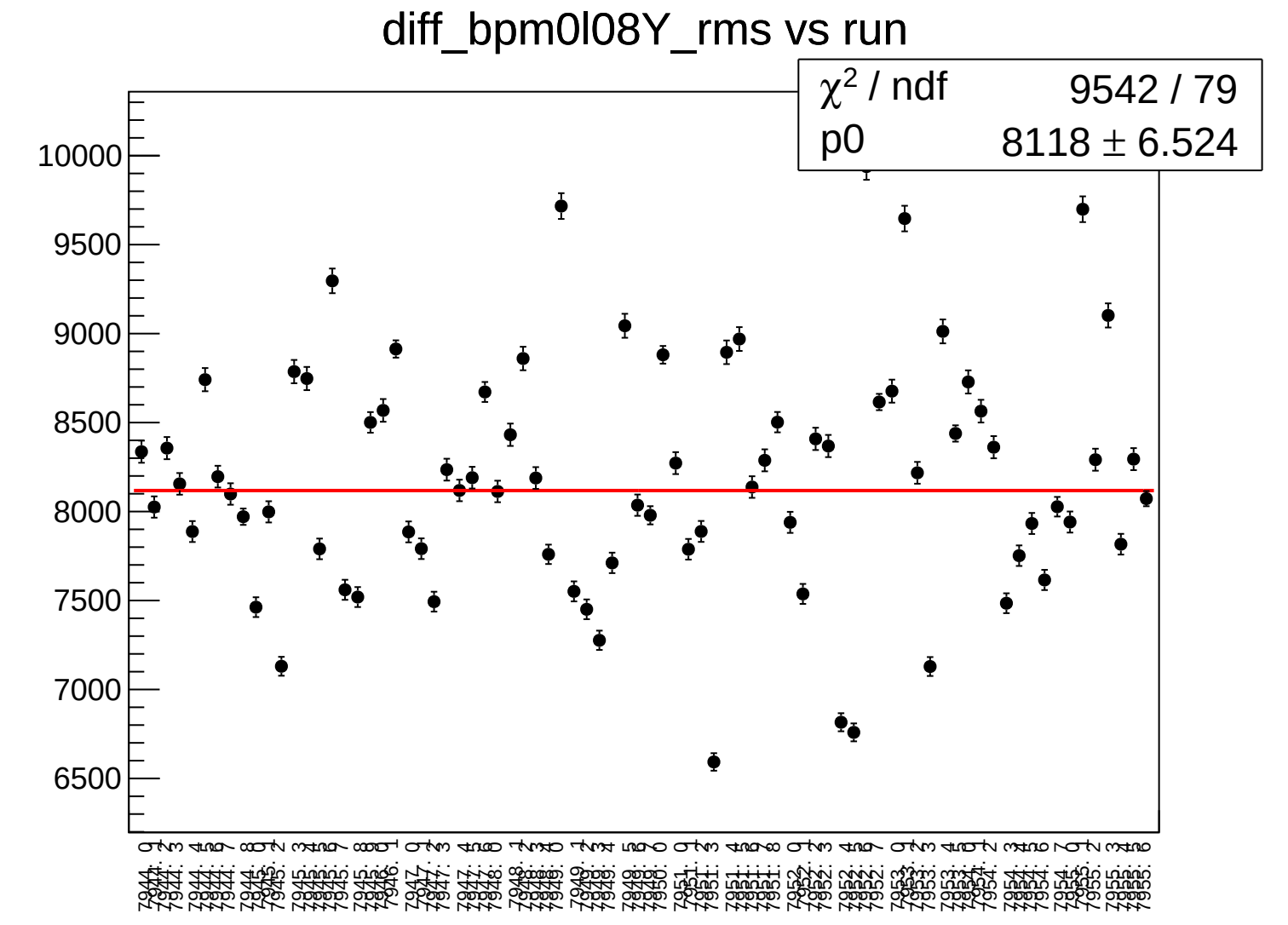

diff_bpm0l08X_mean vs run
χ^2 / ndf 67.07 / 79
p0 −11.57 ± 12.06
pull
Entries 80
Mean 63.82
Std Dev 27.34

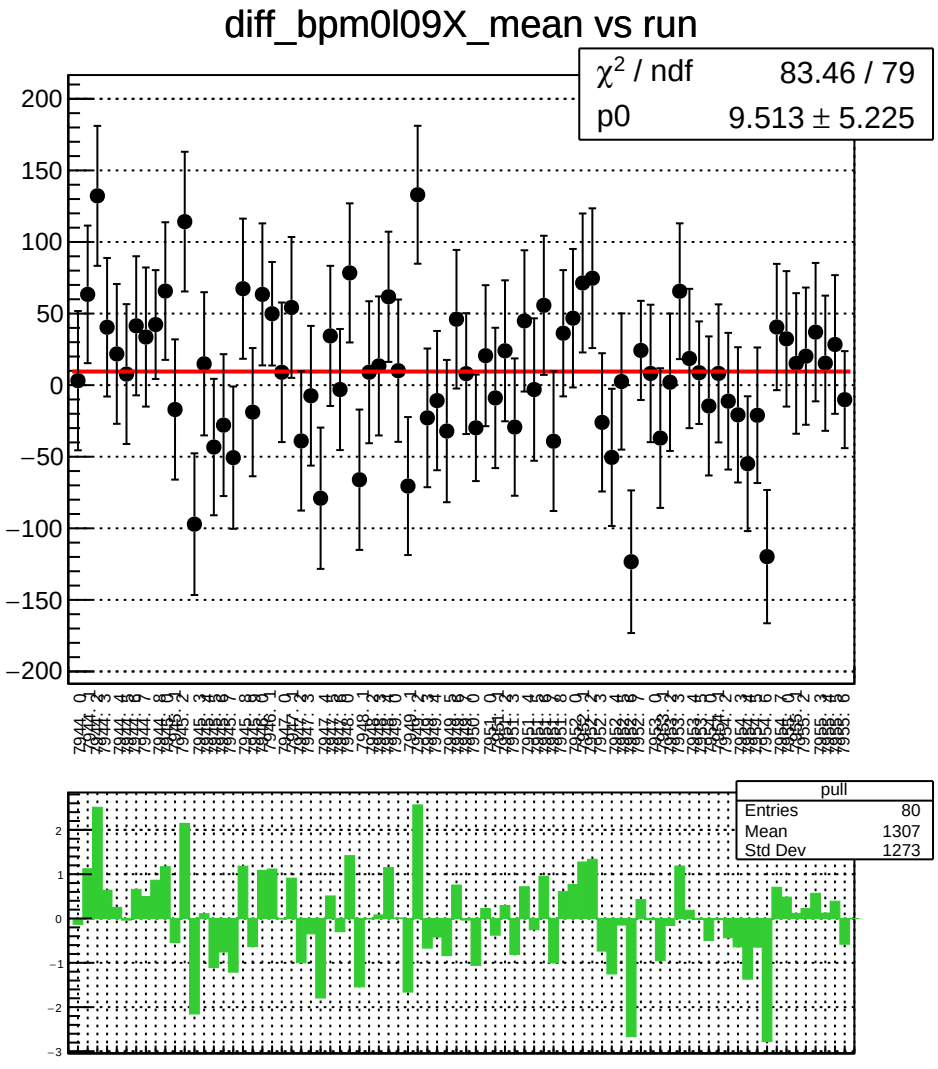

pull1D
Entries 80
Mean 0.0254
Std Dev 0.9153

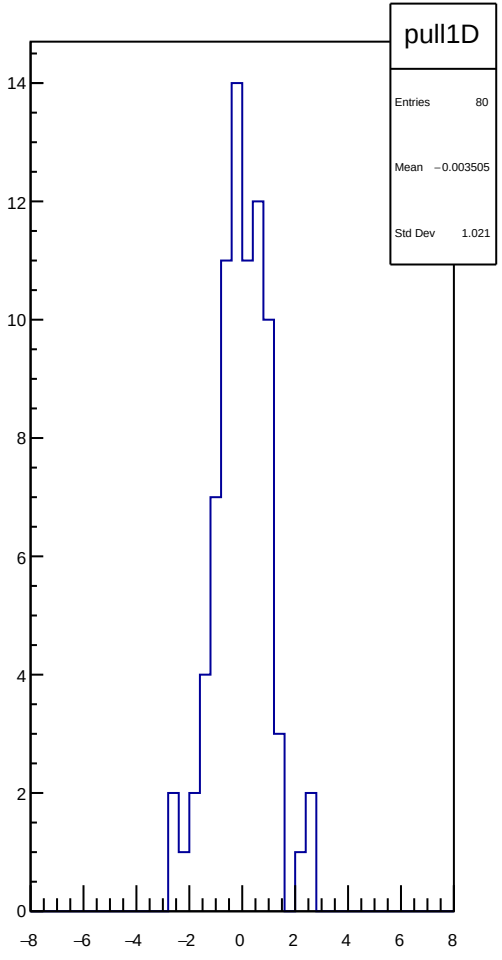

diff_bpm0l08X_rms vs run
χ² / ndf 1.085e+04 / 79
p0 1.06e+04 ± 8.526
13000
12000
11000
10000
9000
8000

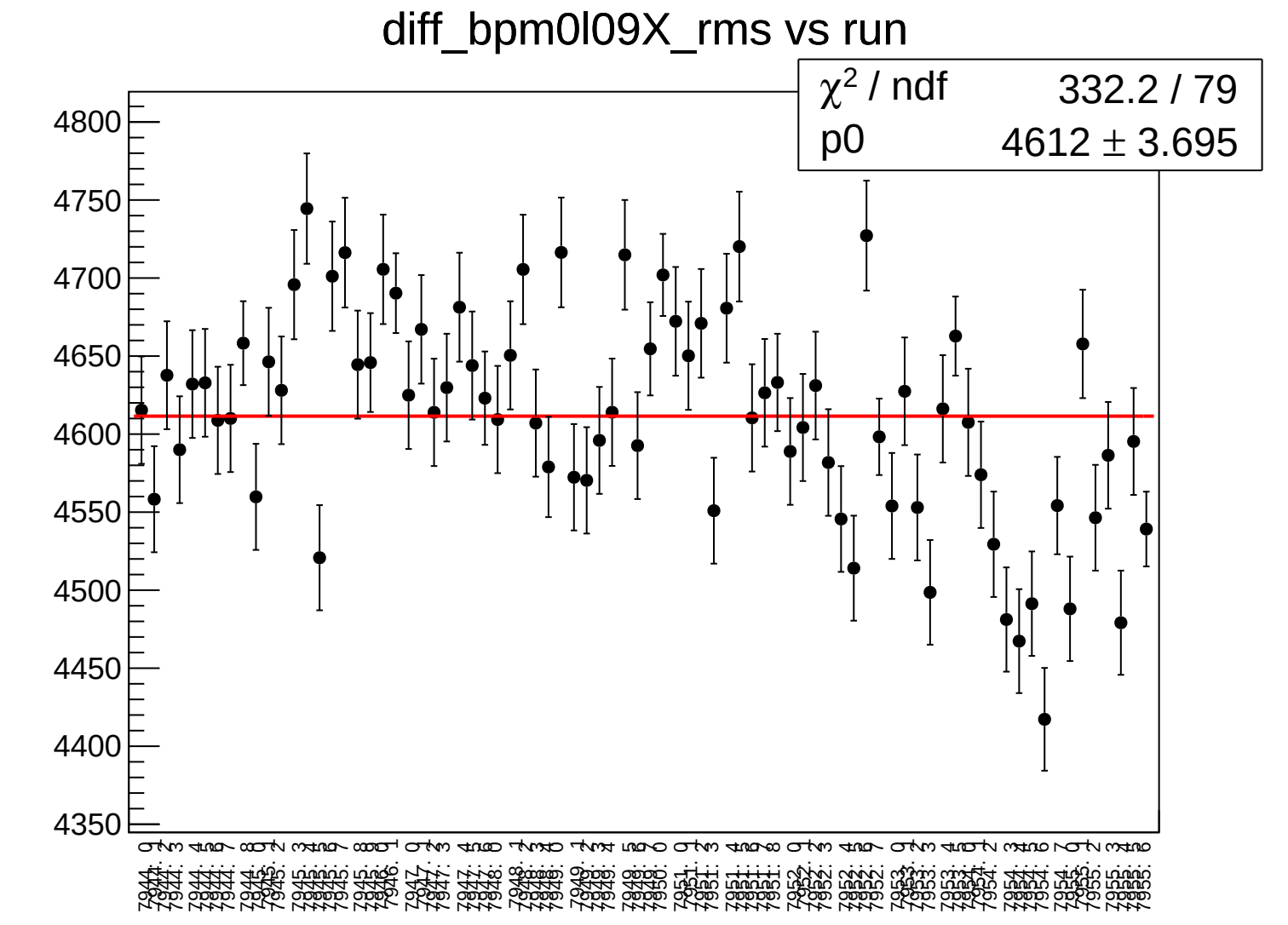

diff_bpm0l08Y_mean vs run
χ^2 / ndf 71.11 / 79
p0 11.86 ± 9.226
pull
Entries 80
Mean 50.67
Std Dev 25.96

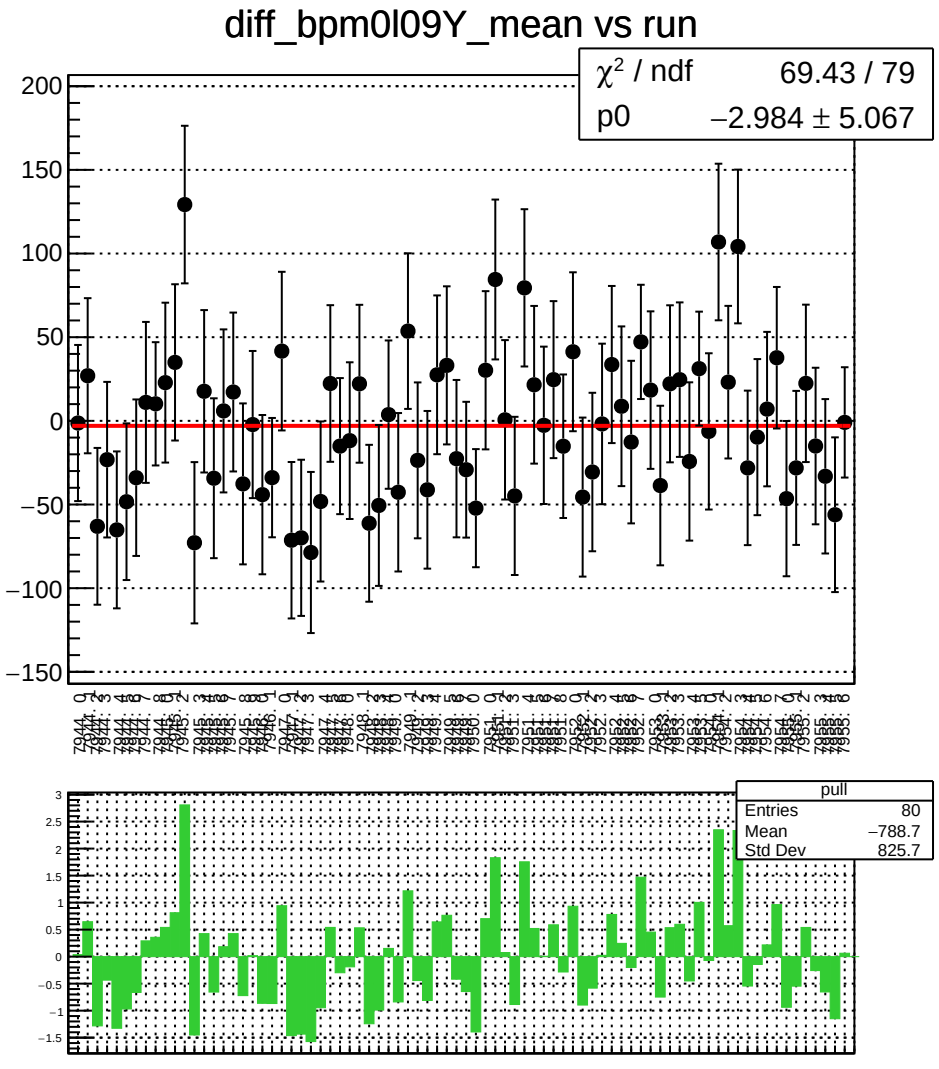

pull1D
Entries 80
Mean −0.02808
Std Dev 0.9424

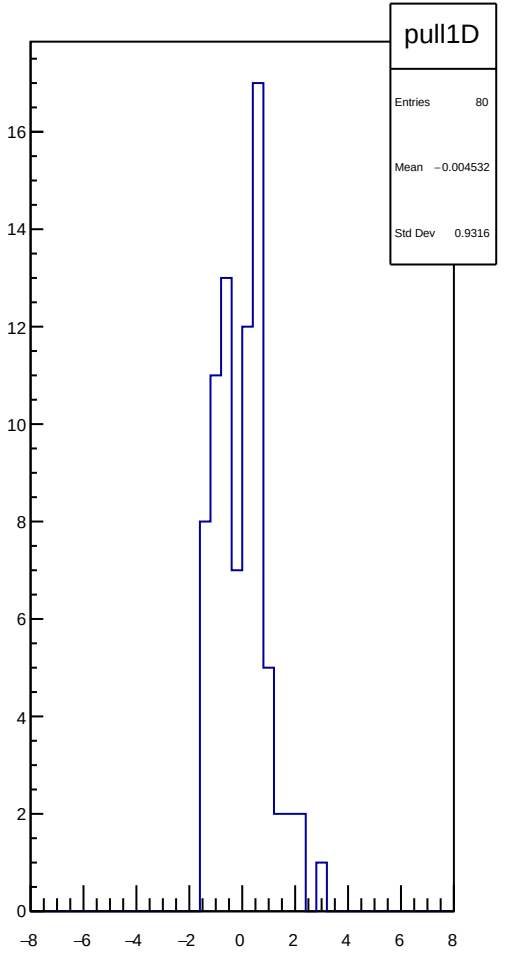

diff_bpm0l08Y_rms vs run
χ² / ndf 9542 / 79
p0 8118 ± 6.524
10000
9500
9000
8500
8000
7500
7000
6500

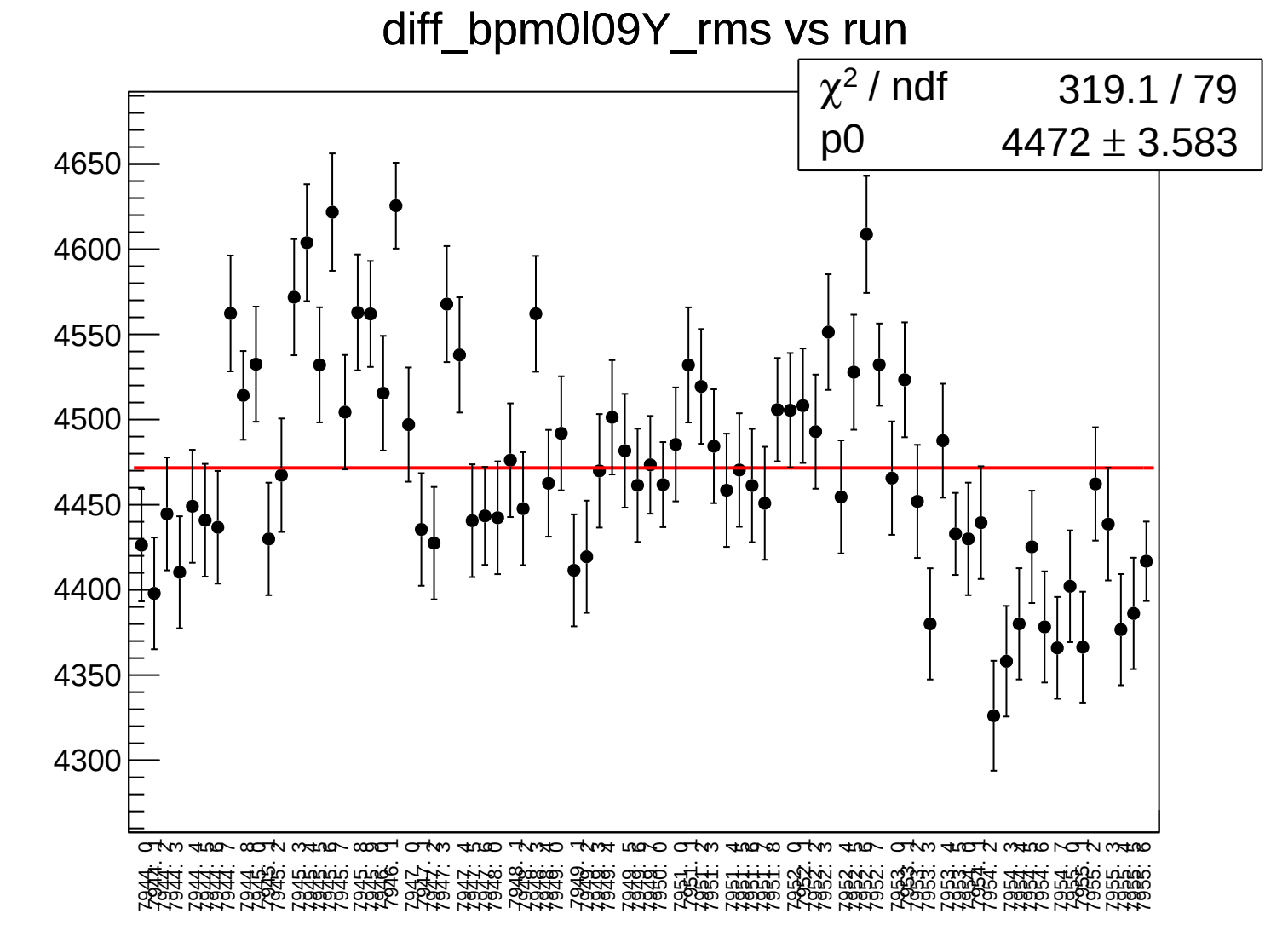

diff_bpm0l09X_mean vs run
χ^2 / ndf 83.46 / 79
p0 9.513 ± 5.225
pull
Entries 80
Mean 1307
Std Dev 1273

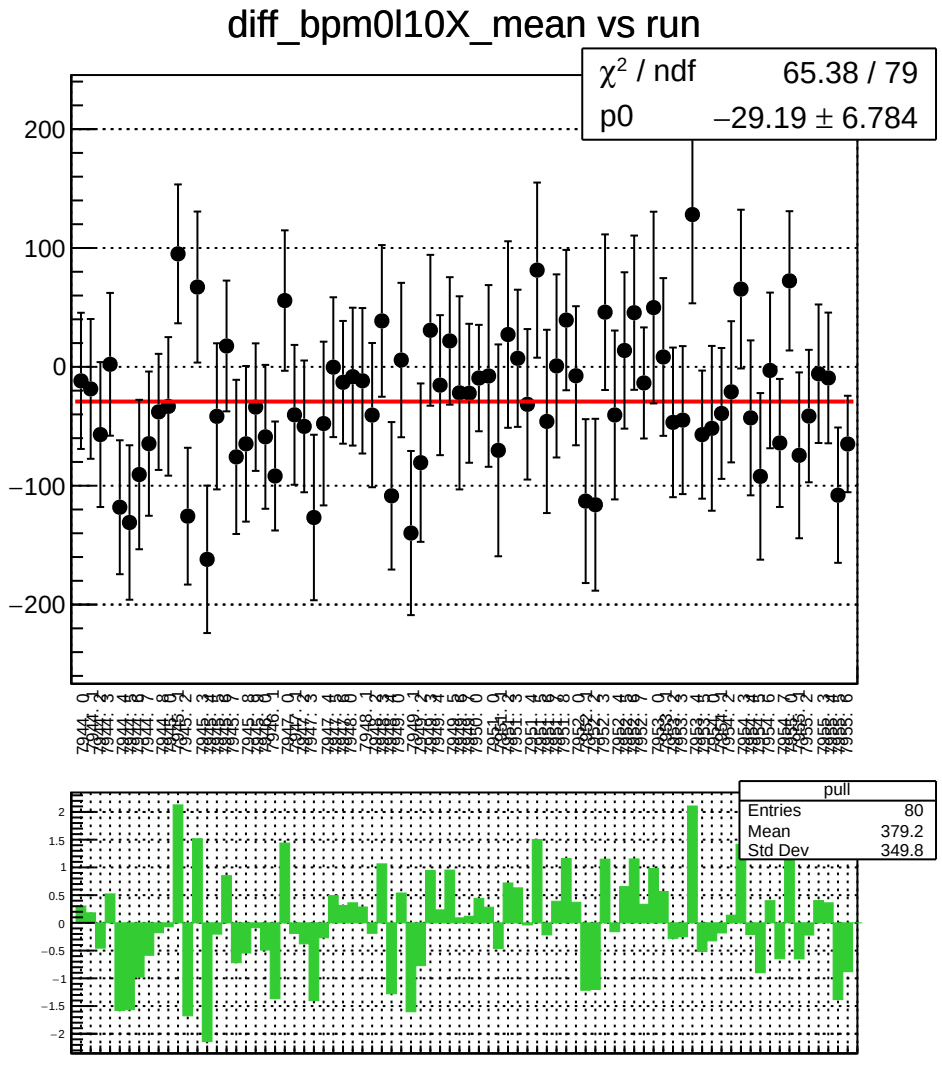

pull1D
Entries 80
Mean −0.003505
Std Dev 1.021

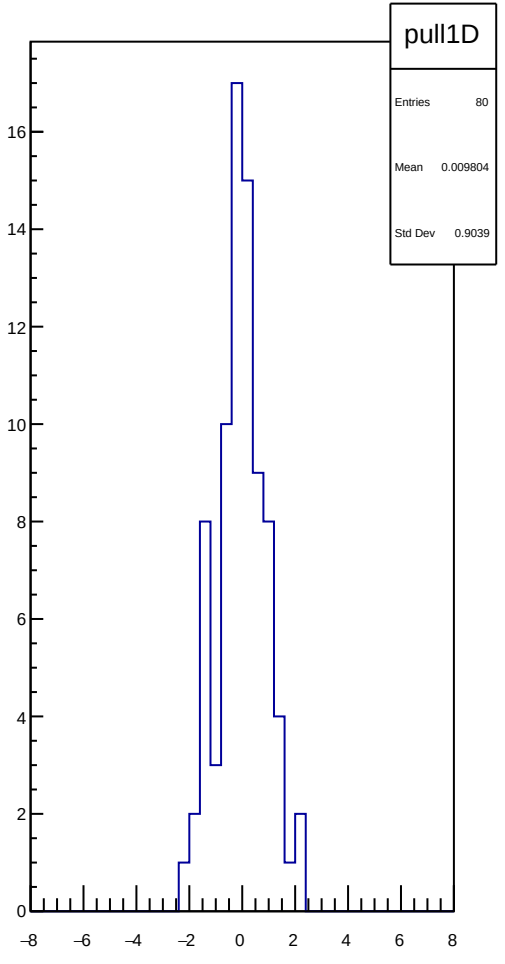

diff_bpm0l09X_rms vs run
χ² / ndf 332.2 / 79
p0 4612 ± 3.695
4800
4750
4700
4650
4600
4550
4500
4450
4400
4350

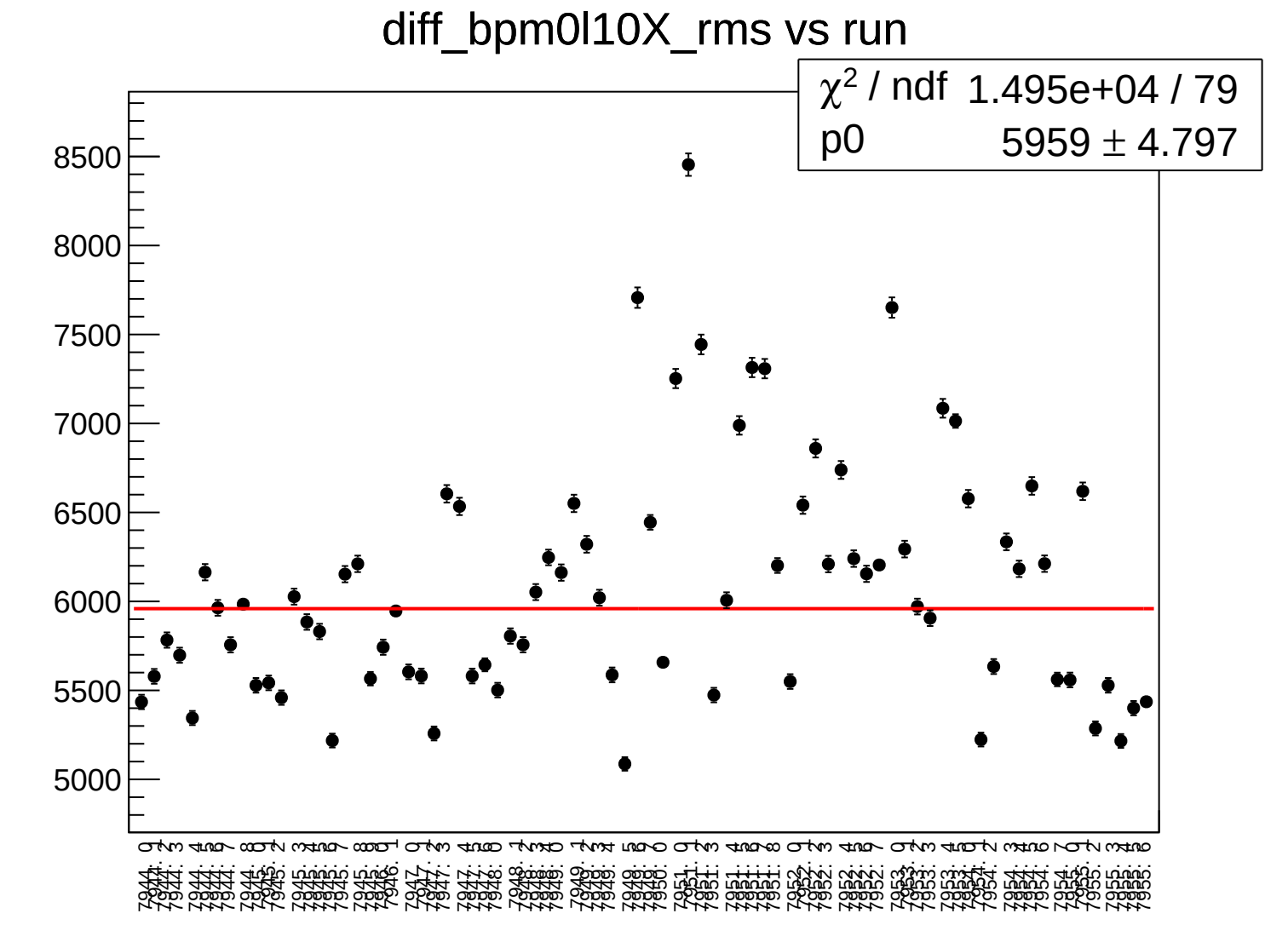

diff_bpm0l09Y_mean vs run
χ² / ndf 69.43 / 79
p0 −2.984 ± 5.067
pull
Entries 80
Mean −788.7
Std Dev 825.7

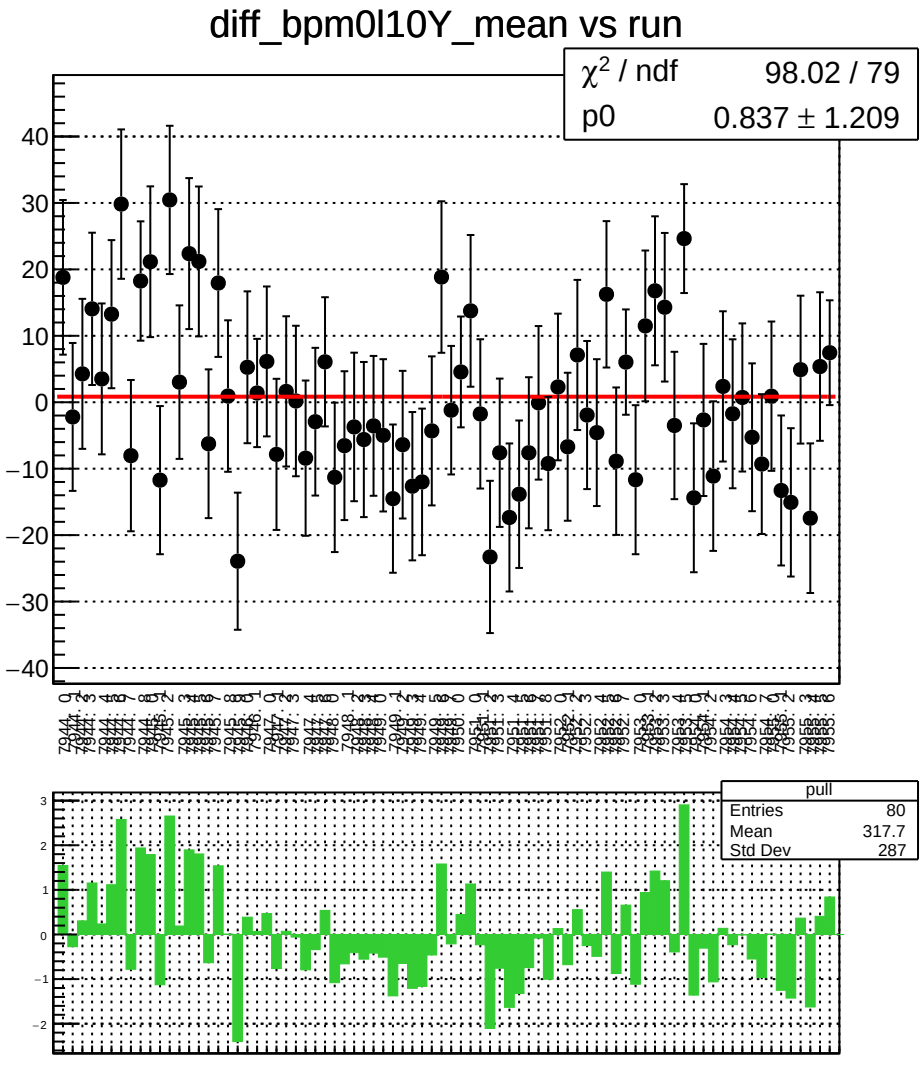

pull1D
Entries 80
Mean −0.004532
Std Dev 0.9316

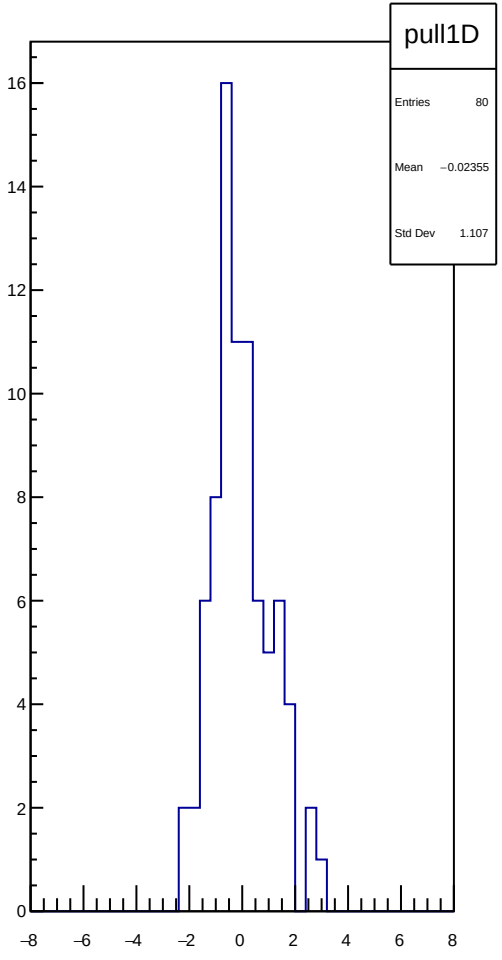

diff_bpm0l09Y_rms vs run
χ² / ndf 319.1 / 79
p0 4472 ± 3.583
4650
4600
4550
4500
4450
4400
4350
4300

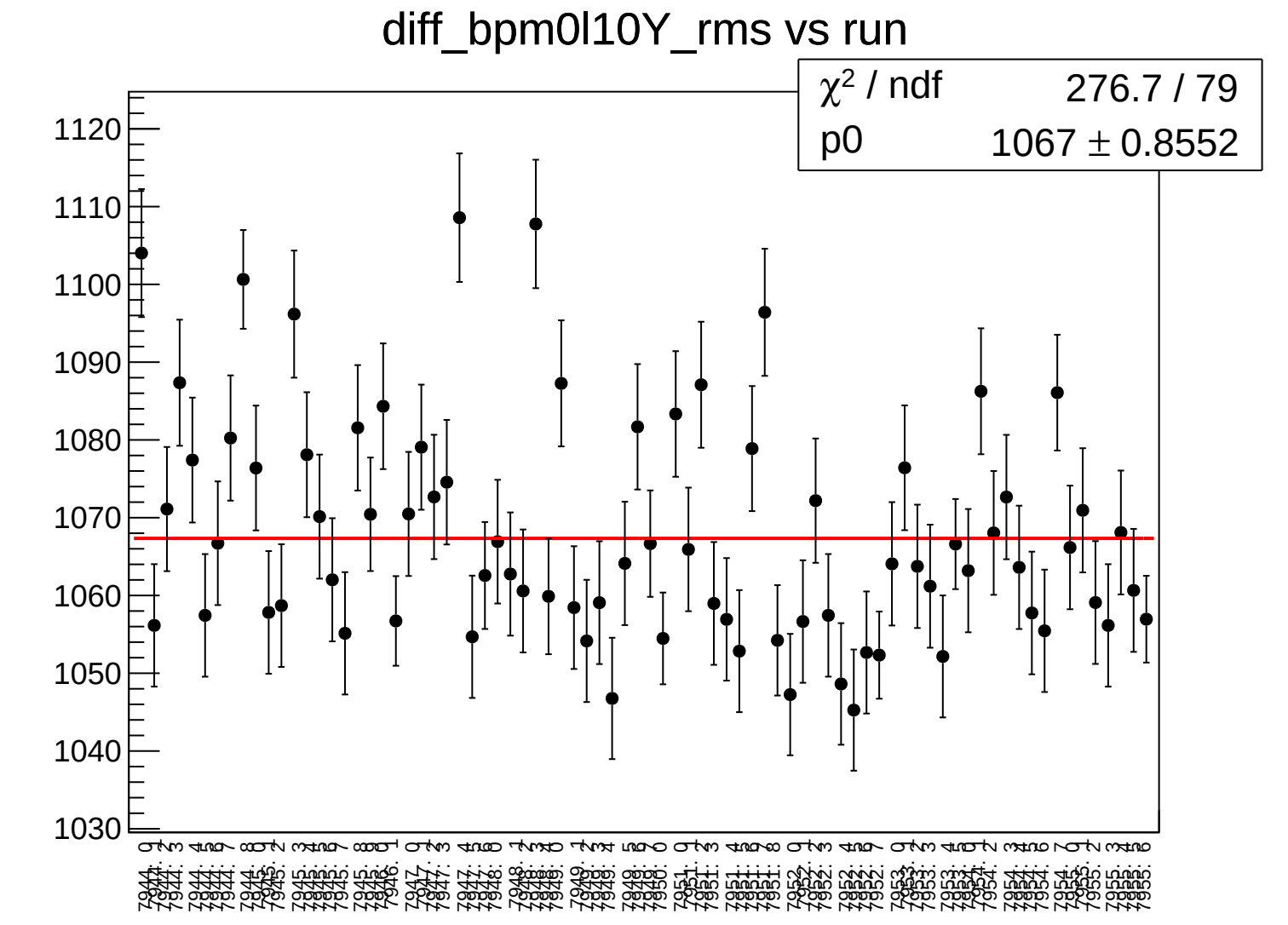

diff_bpm0l10X_mean vs run
χ² / ndf 65.38 / 79
p0 −29.19 ± 6.784
200
100
0
−100
−200
pull
Entries 80
Mean 379.2
Std Dev 349.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

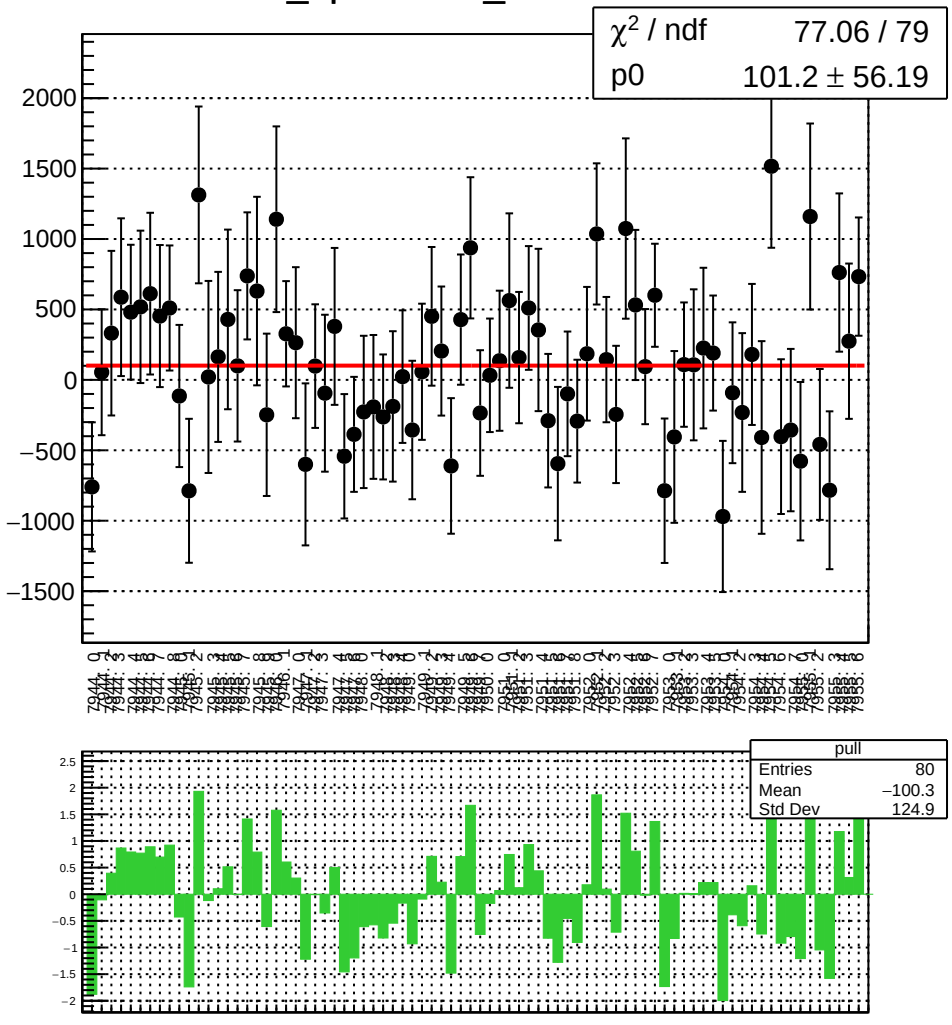

pull1D
Entries 80
Mean 0.009804
Std Dev 0.9039
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

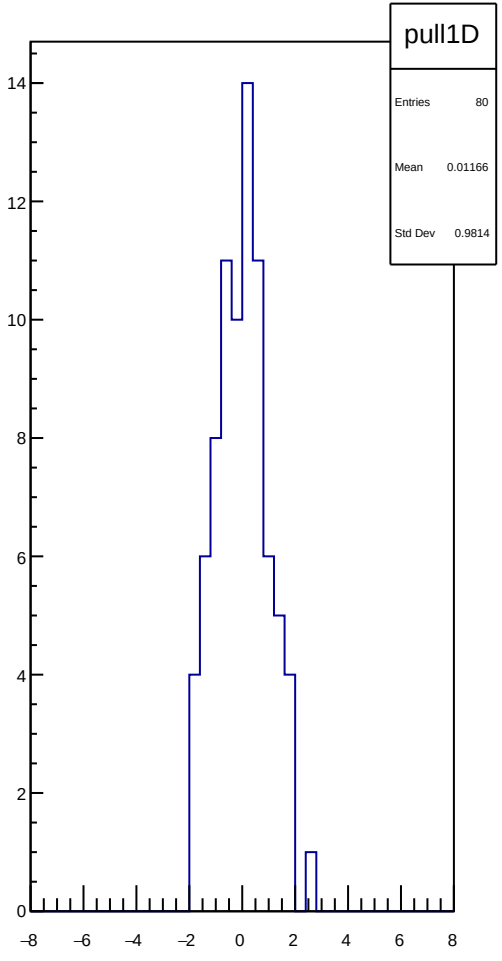

diff_bpm0l10X_rms vs run
χ² / ndf 1.495e+04 / 79
p0 5959 ± 4.797
8500
8000
7500
7000
6500
6000
5500
5000

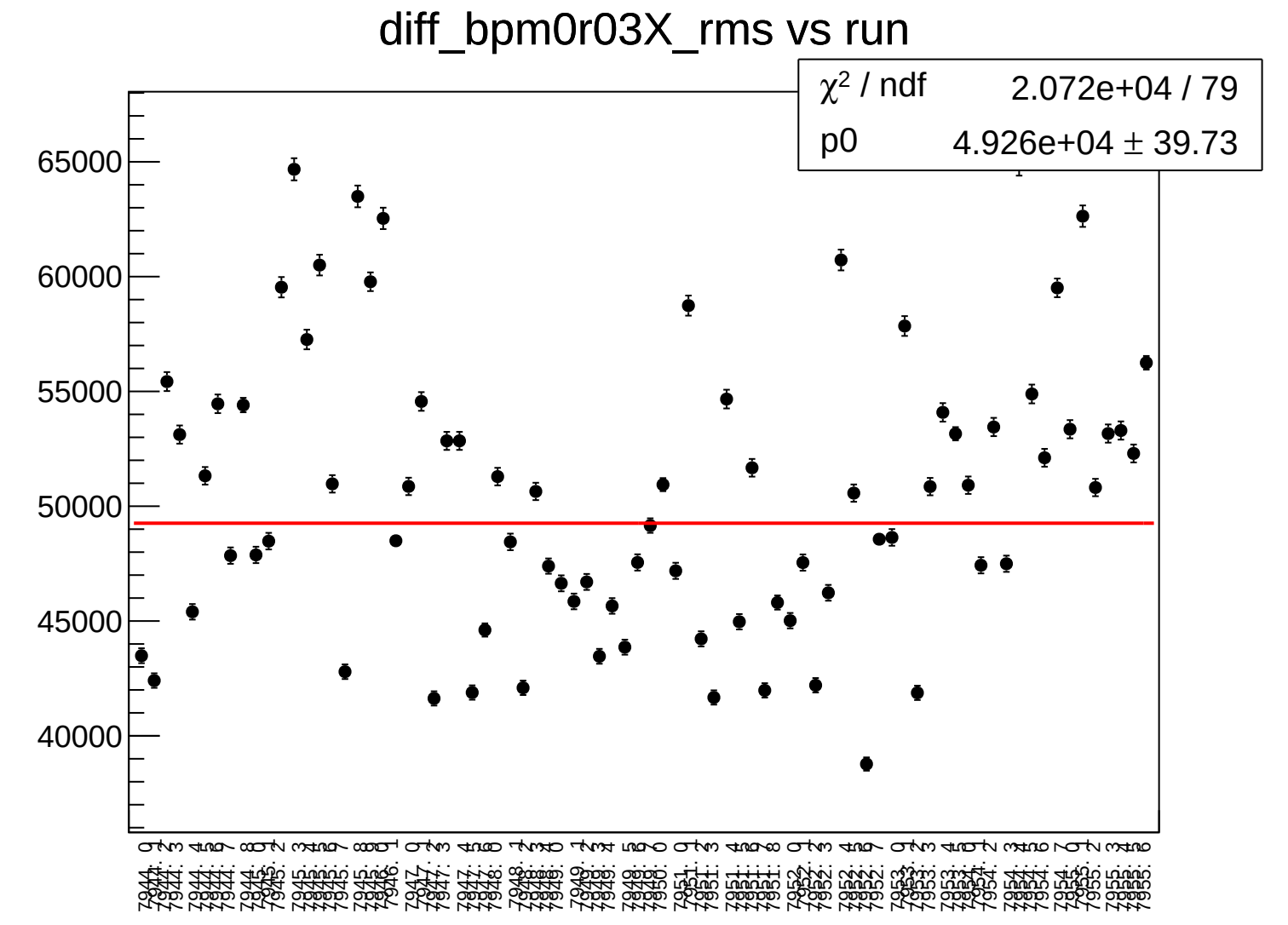

diff_bpm0l10Y_mean vs run
χ^2 / ndf 98.02 / 79
p0 0.837 ± 1.209
pull
Entries 80
Mean 317.7
Std Dev 287

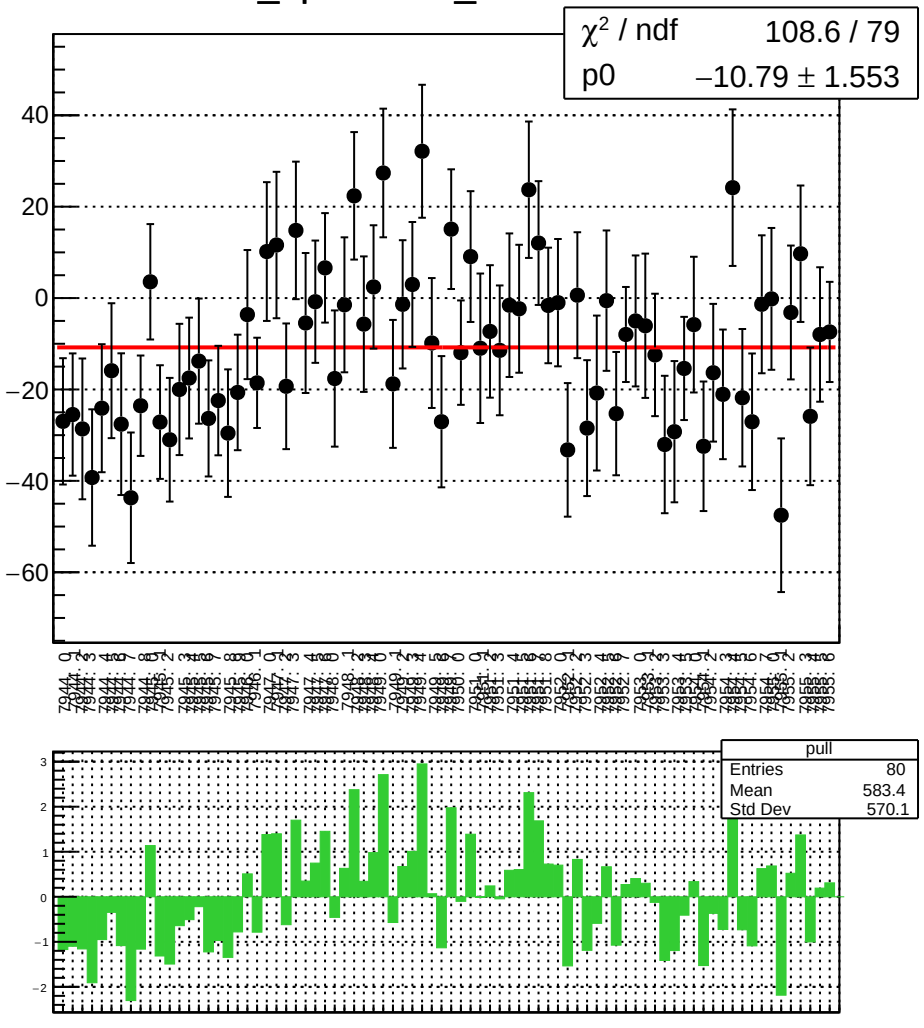

pull1D
Entries 80
Mean −0.02355
Std Dev 1.107

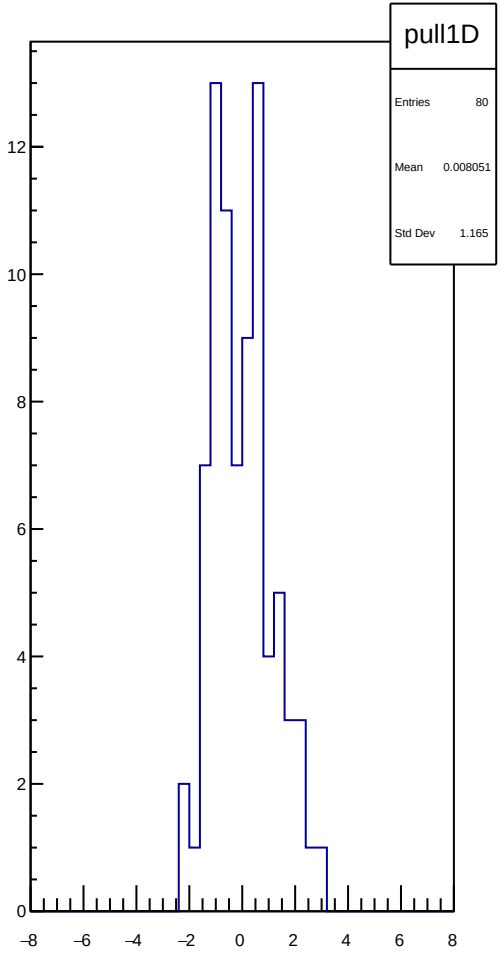

diff_bpm0l10Y_rms vs run
χ² / ndf 276.7 / 79
p0 1067 ± 0.8552
1120
1110
1100
1090
1080
1070
1060
1050
1040
1030

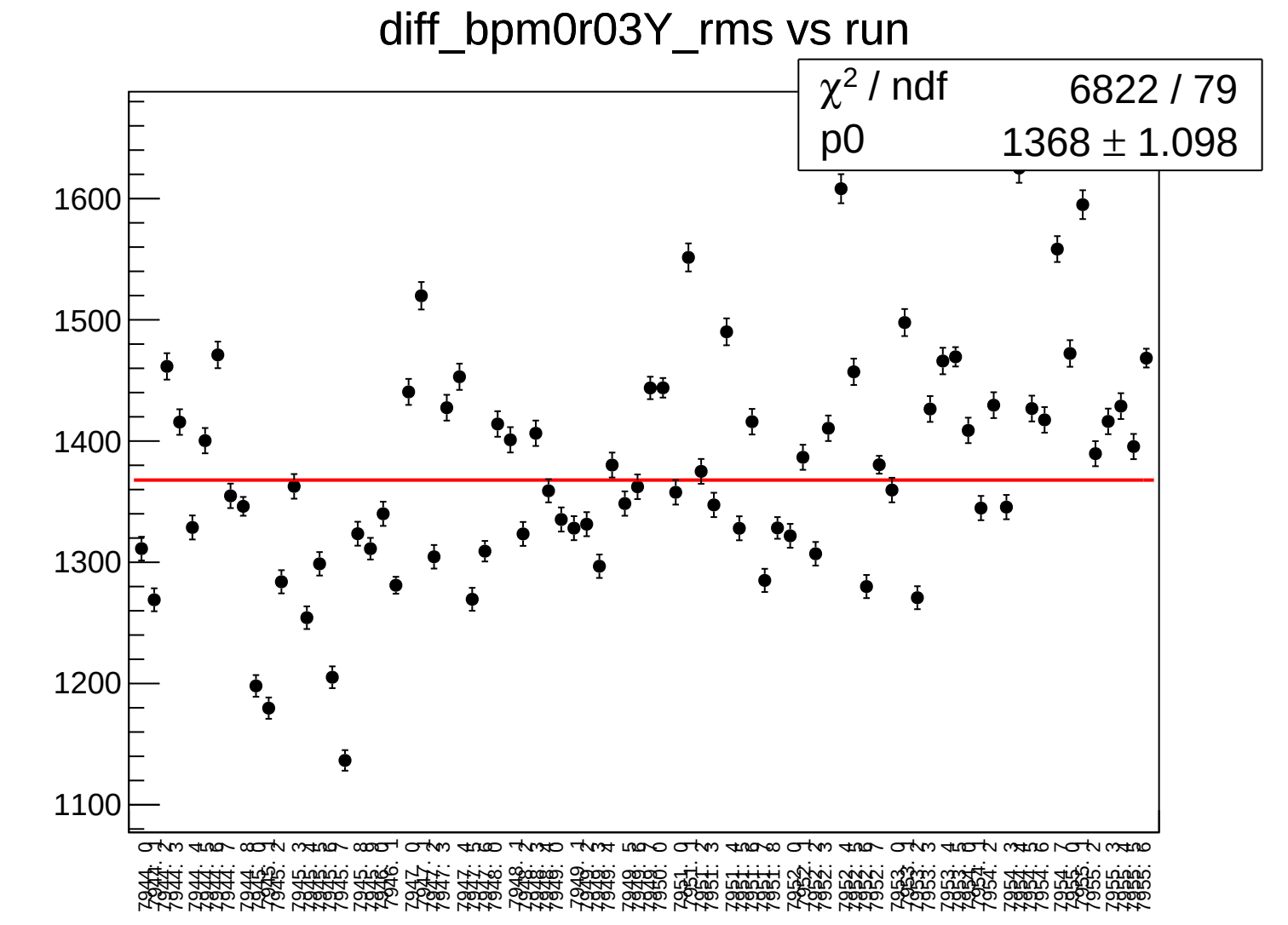

diff_bpm0r03X_mean vs run
χ^2 / ndf 77.06 / 79
p0 101.2 ± 56.19
pull
Entries 80
Mean −100.3
Std Dev 124.9

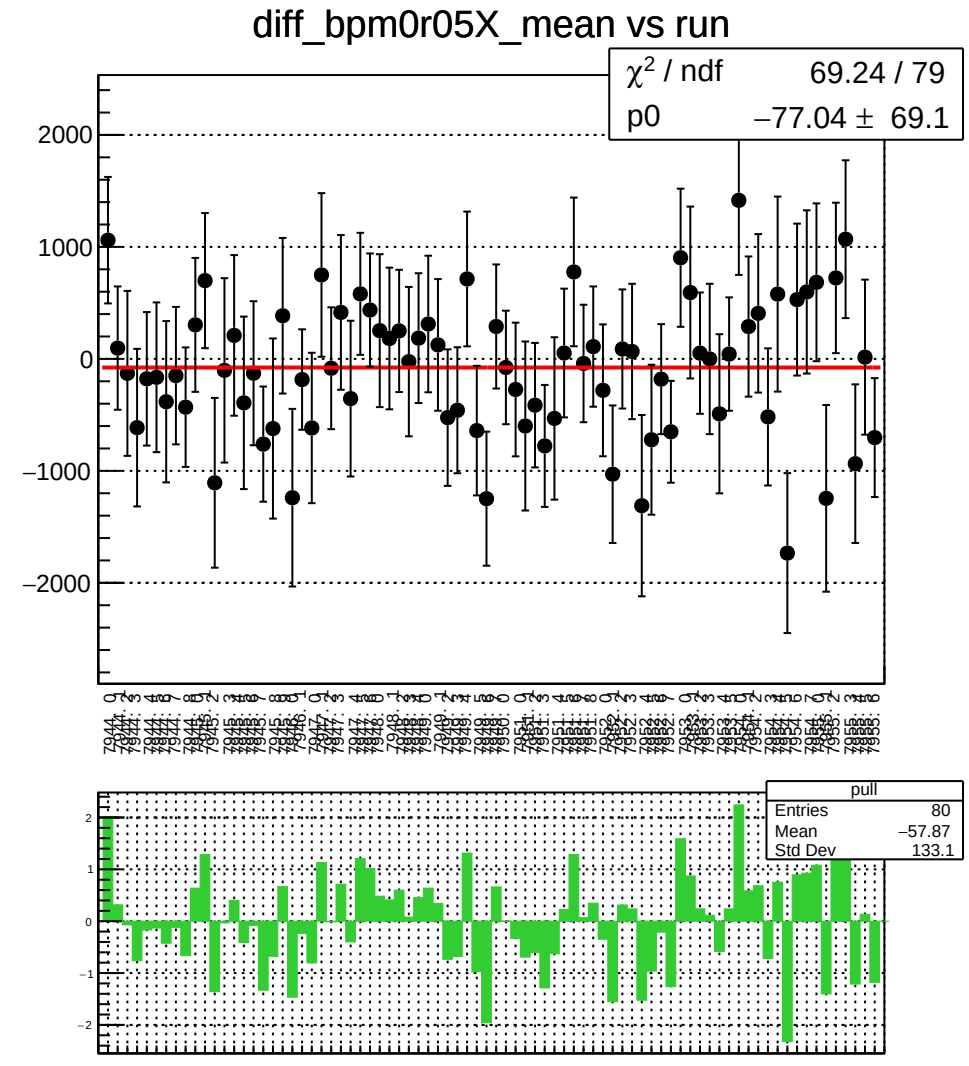

pull1D
Entries 80
Mean 0.01166
Std Dev 0.9814

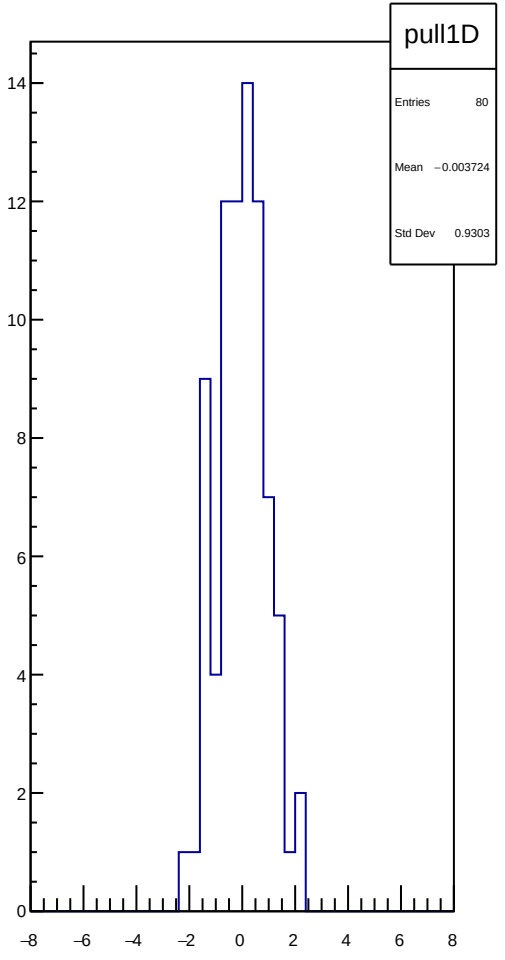

diff_bpm0r03X_rms vs run
χ² / ndf 2.072e+04 / 79
p0 4.926e+04 ± 39.73
65000
60000
55000
50000
45000
40000

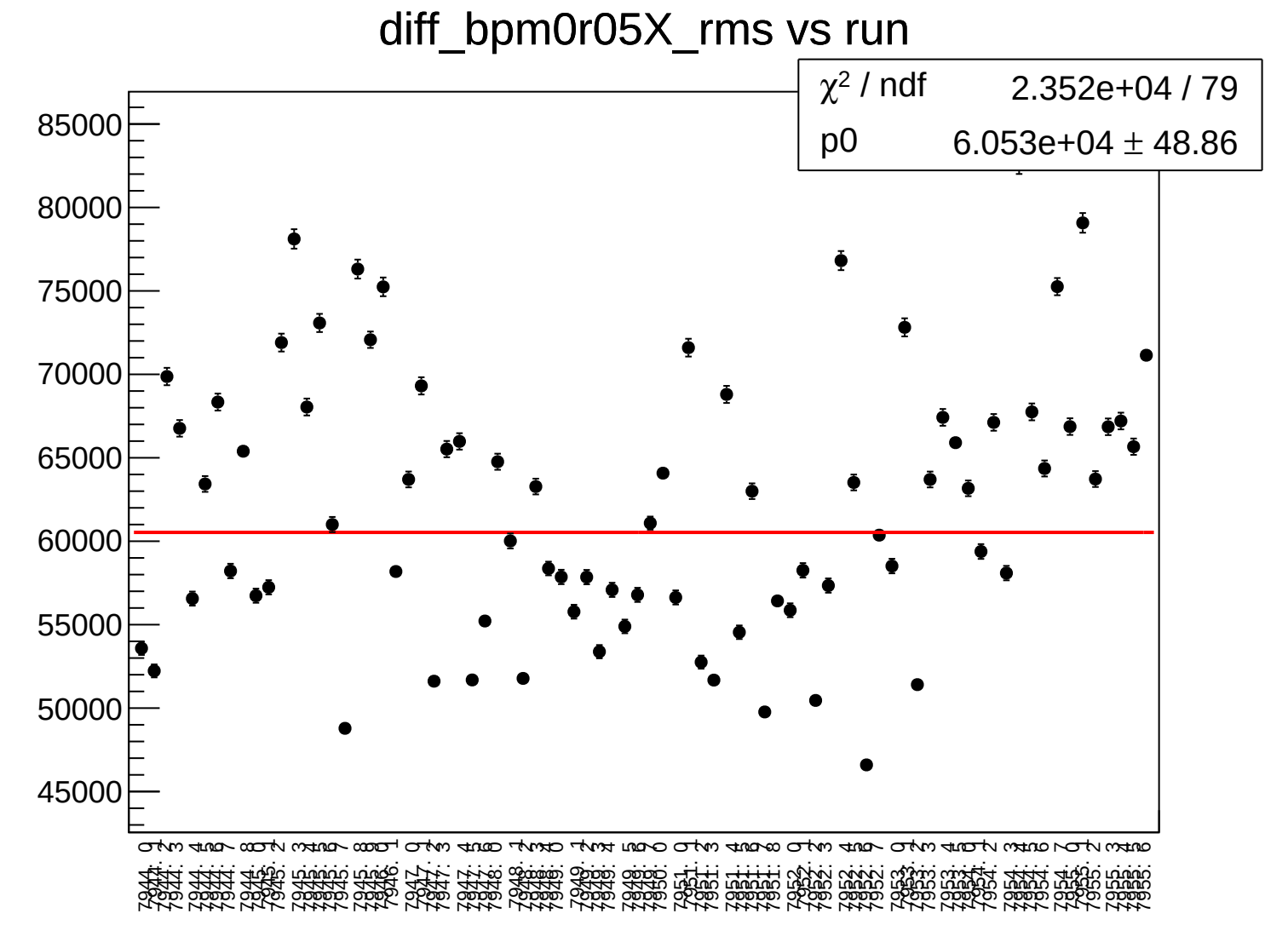

diff_bpm0r03Y_mean vs run
χ² / ndf 108.6 / 79
p0 −10.79 ± 1.553
pull
Entries 80
Mean 583.4
Std Dev 570.1

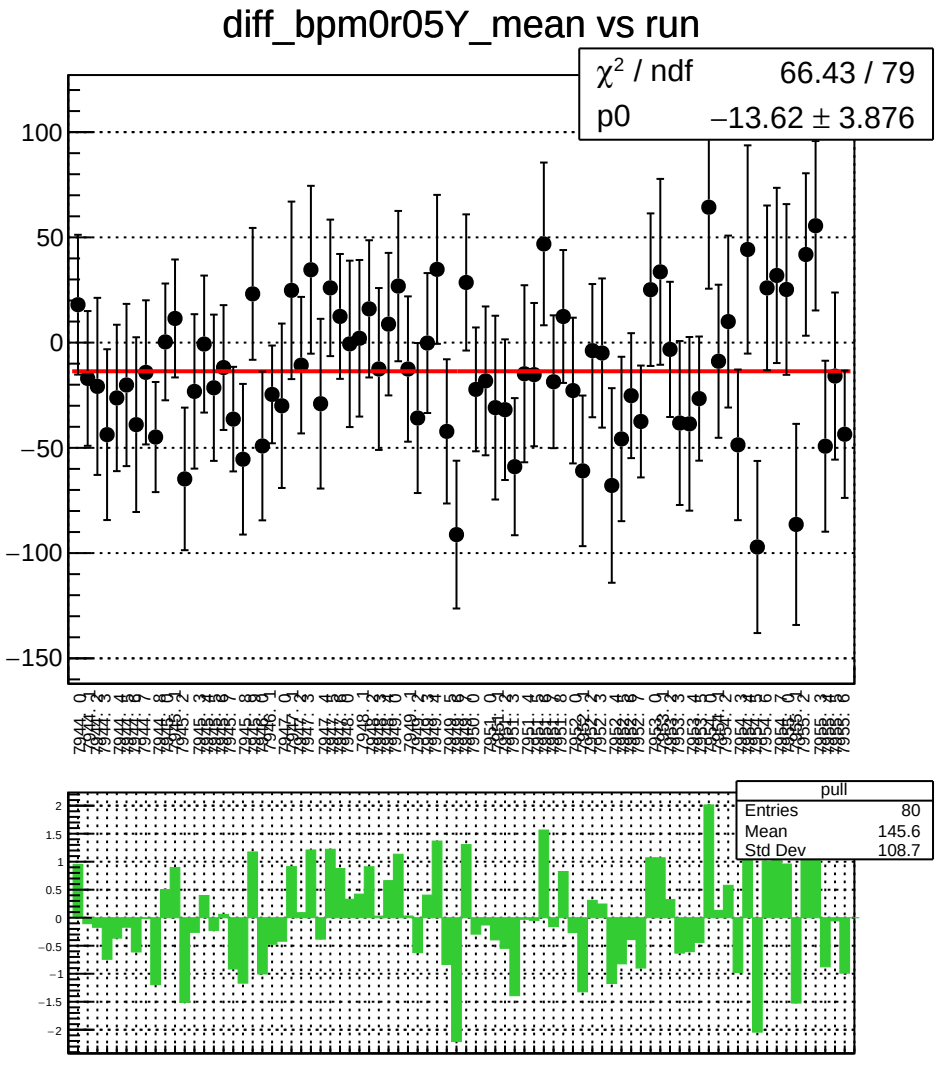

pull1D
Entries 80
Mean 0.008051
Std Dev 1.165

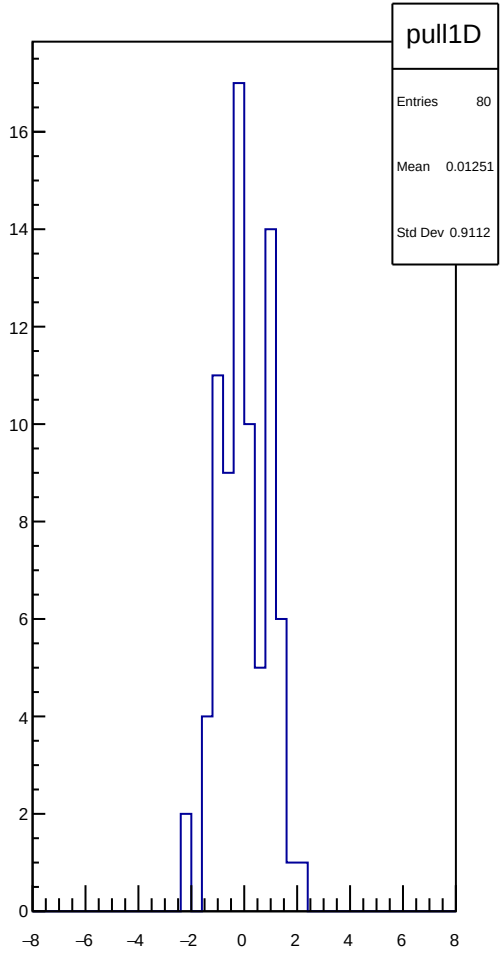

diff_bpm0r03Y_rms vs run
χ² / ndf 6822 / 79
p0 1368 ± 1.098
1600
1500
1400
1300
1200
1100

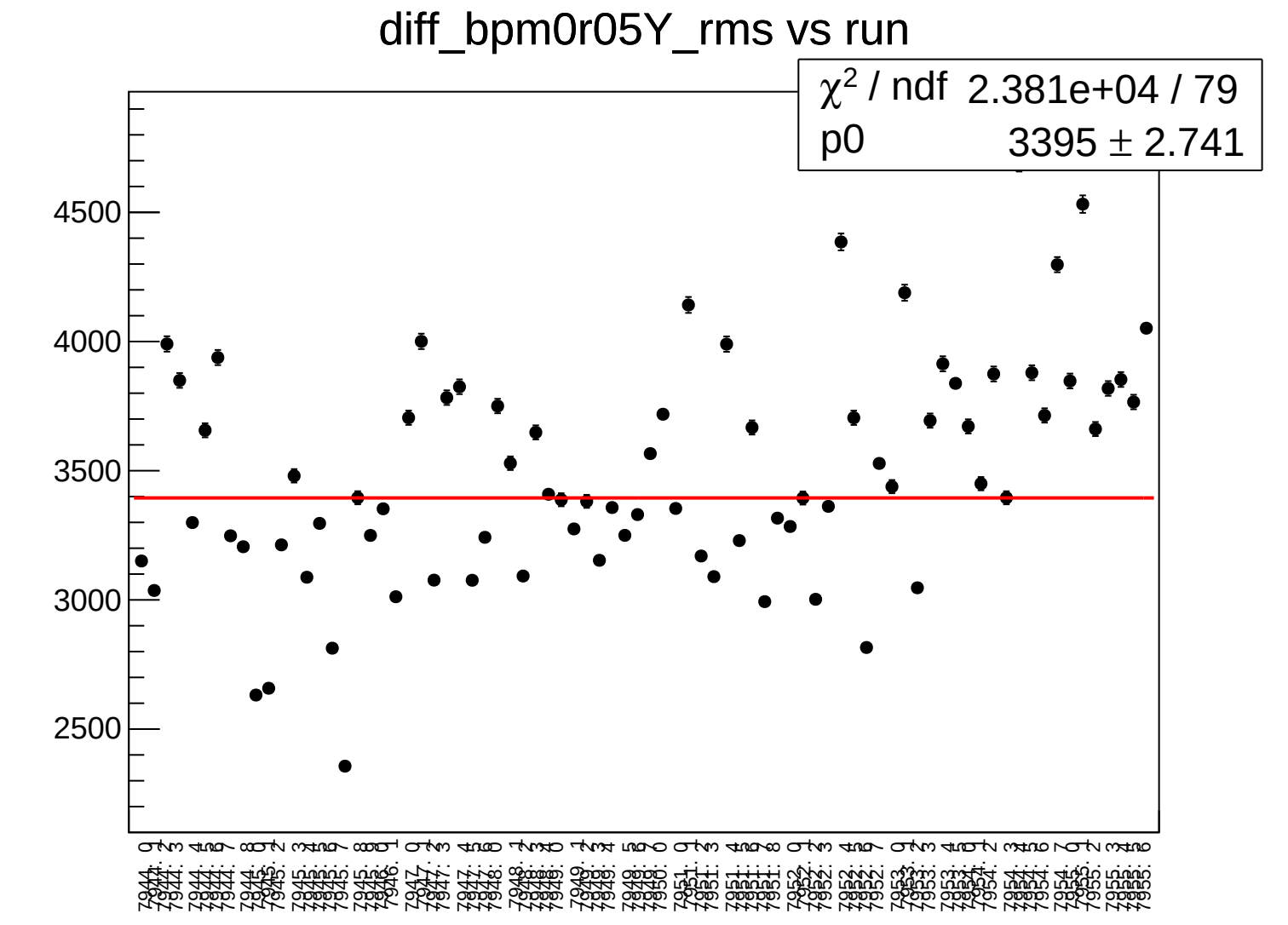

diff_bpm0r05X_mean vs run
χ² / ndf 69.24 / 79
p0 −77.04 ± 69.1
pull
Entries 80
Mean −57.87
Std Dev 133.1

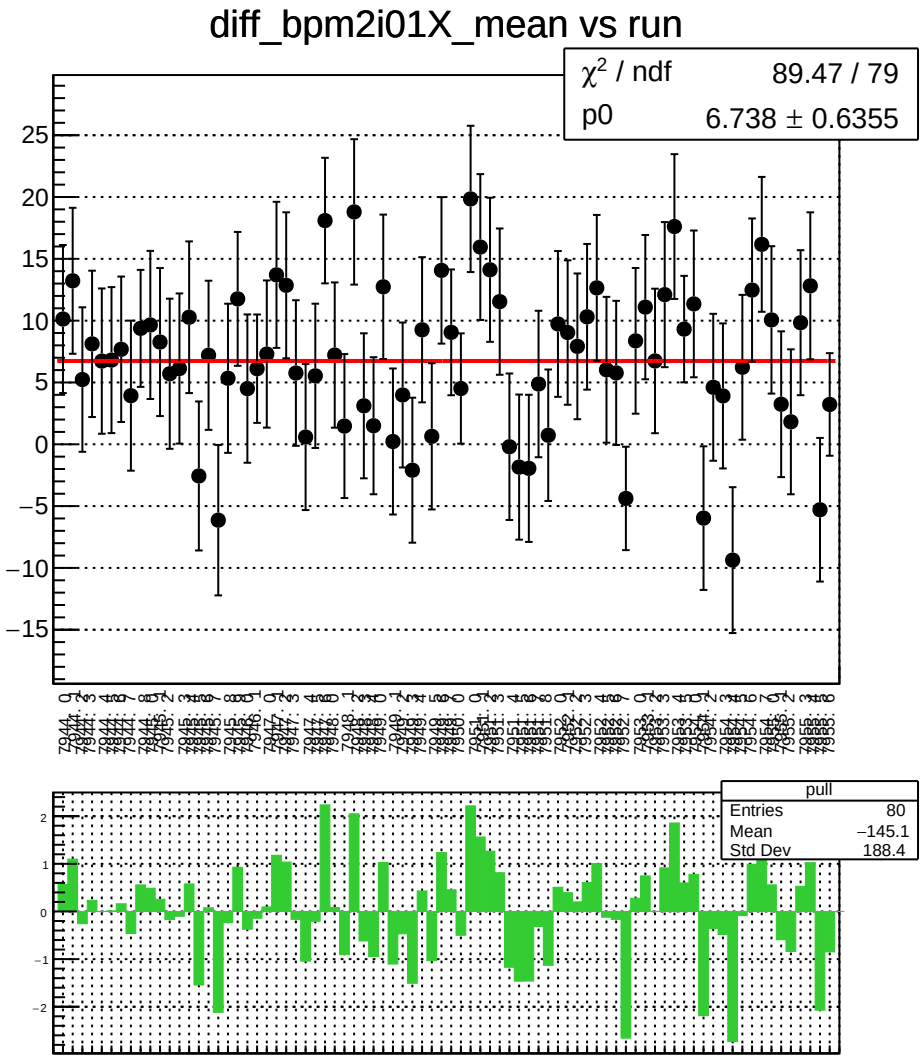

pull1D
Entries 80
Mean −0.003724
Std Dev 0.9303

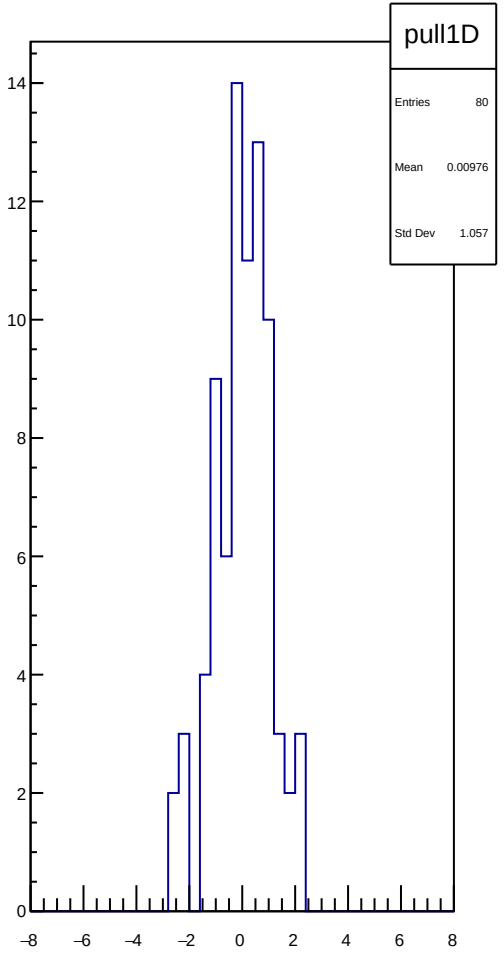

diff_bpm0r05X_rms vs run
χ² / ndf 2.352e+04 / 79
p0 6.053e+04 ± 48.86
85000
80000
75000
70000
65000
60000
55000
50000
45000

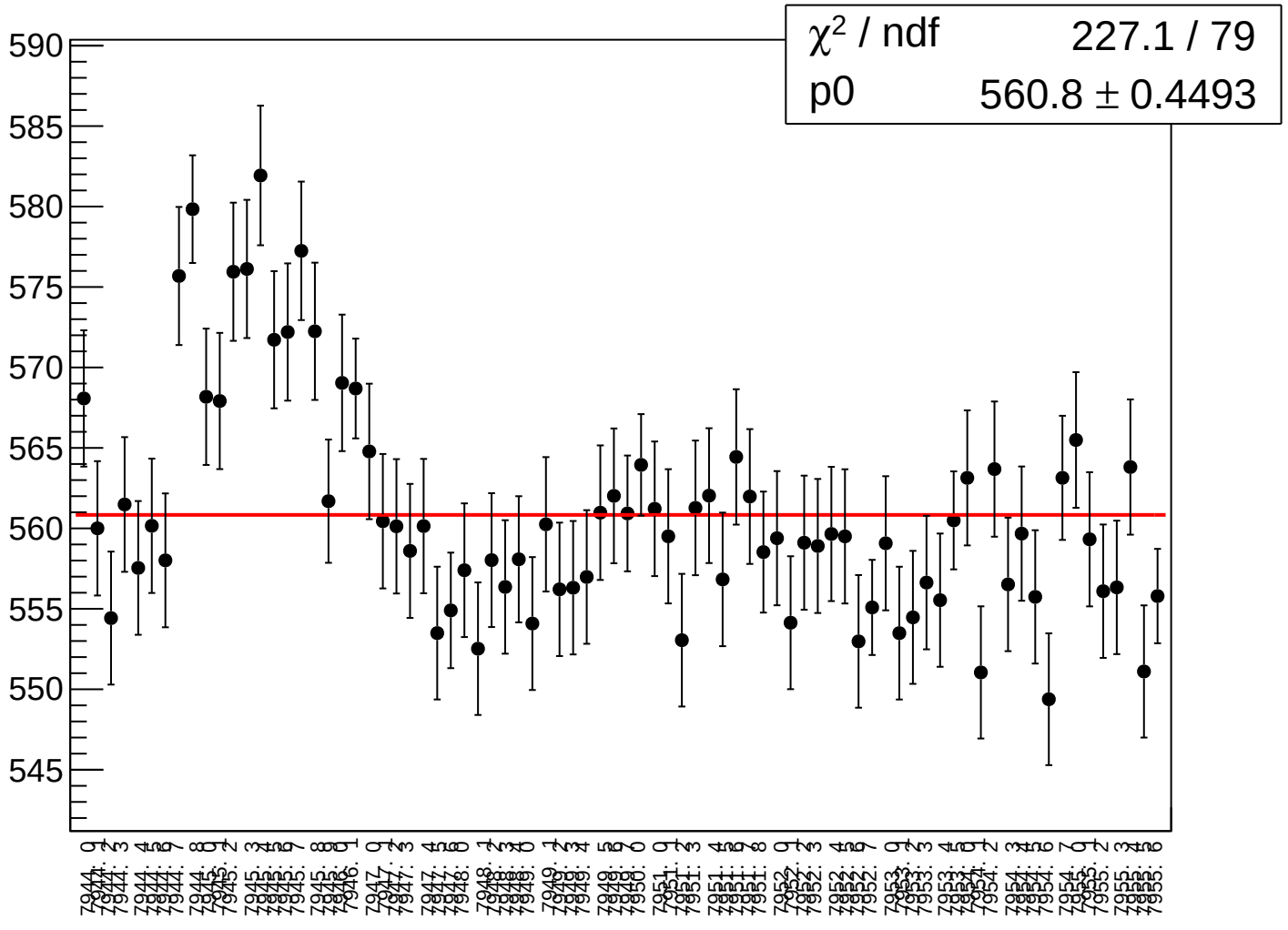

diff_bpm0r05Y_mean vs run
χ² / ndf 66.43 / 79
p0 −13.62 ± 3.876
pull
Entries 80
Mean 145.6
Std Dev 108.7

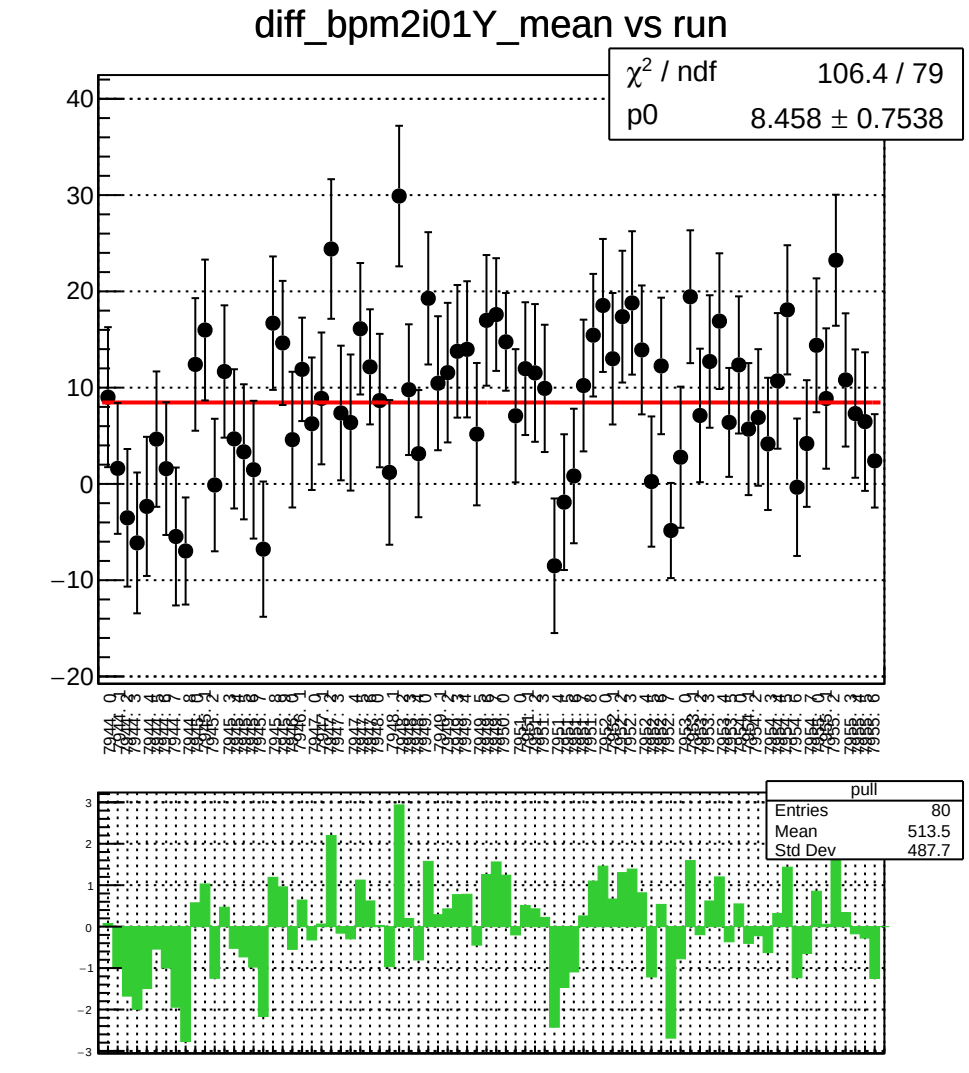

pull1D
Entries 80
Mean 0.01251
Std Dev 0.9112

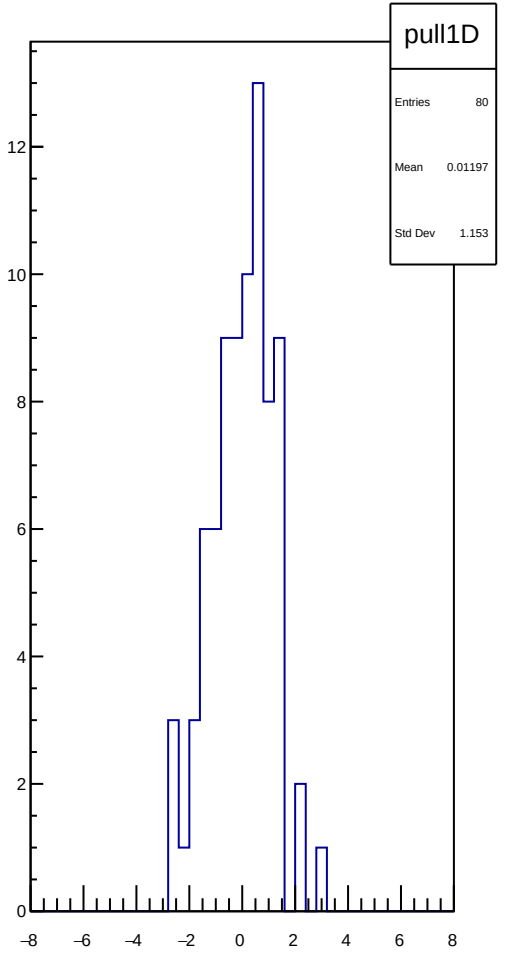

diff_bpm0r05Y_rms vs run
χ^2 / ndf 2.381e+04 / 79
p0 3395 ± 2.741
4500
4000
3500
3000
2500

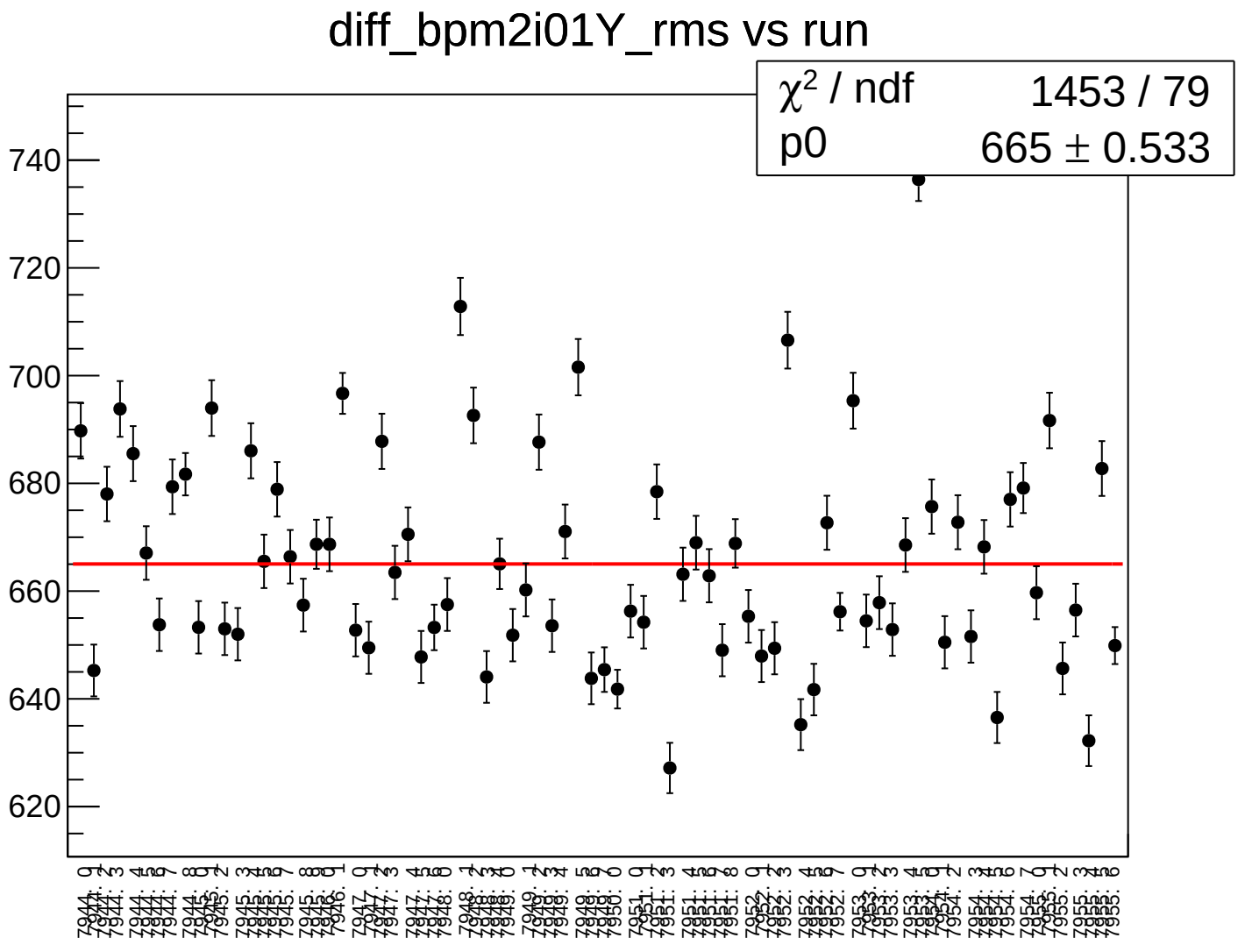

diff_bpm2i01X_mean vs run
χ^2 / ndf 89.47 / 79
p0 6.738 ± 0.6355
pull
Entries 80
Mean −145.1
Std Dev 188.4

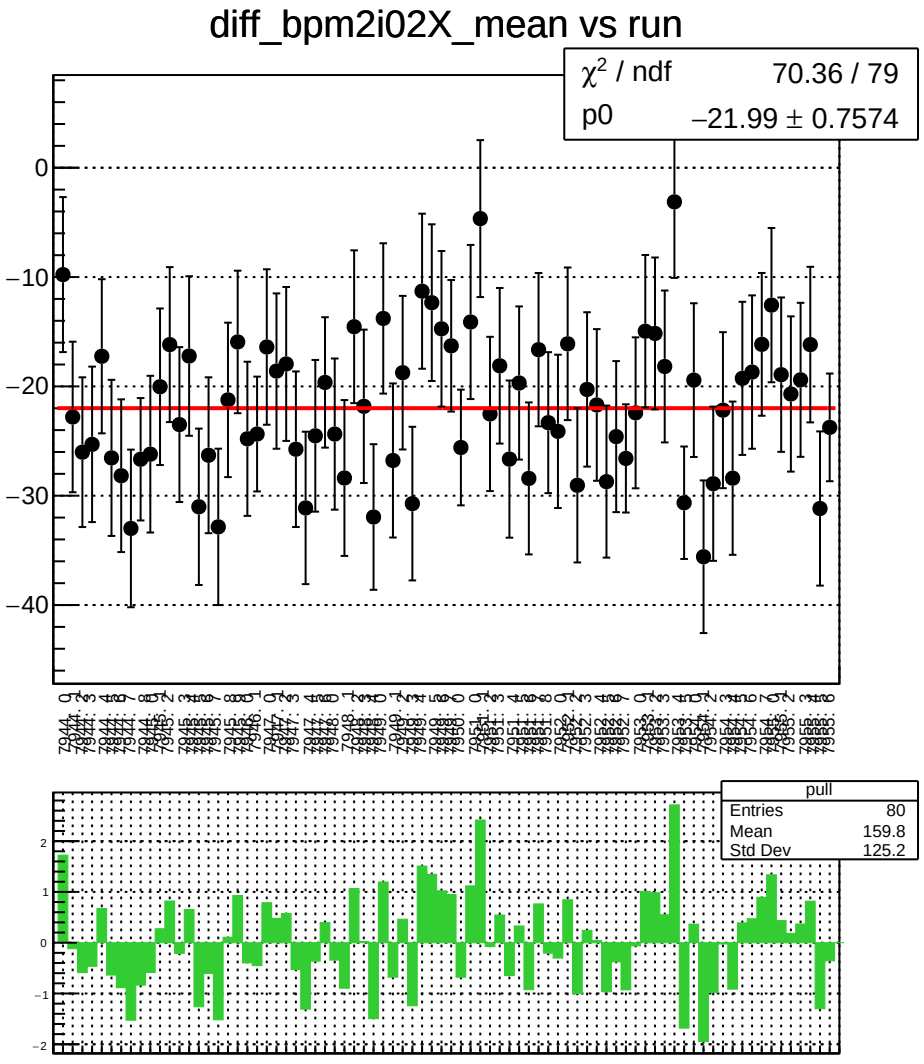

pull1D
Entries 80
Mean 0.00976
Std Dev 1.057

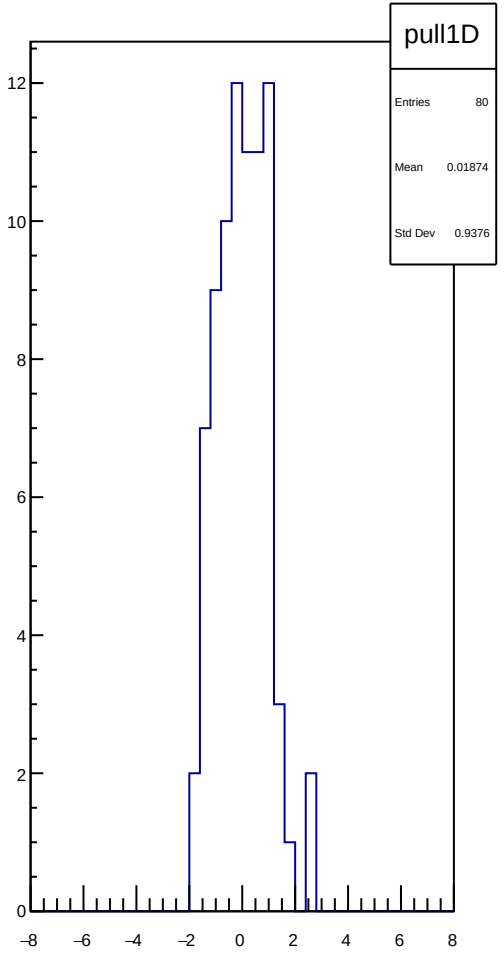

diff_bpm2i01X_rms vs run
χ² / ndf 227.1 / 79
p0 560.8 ± 0.4493
590
585
580
575
570
565
560
555
550
545

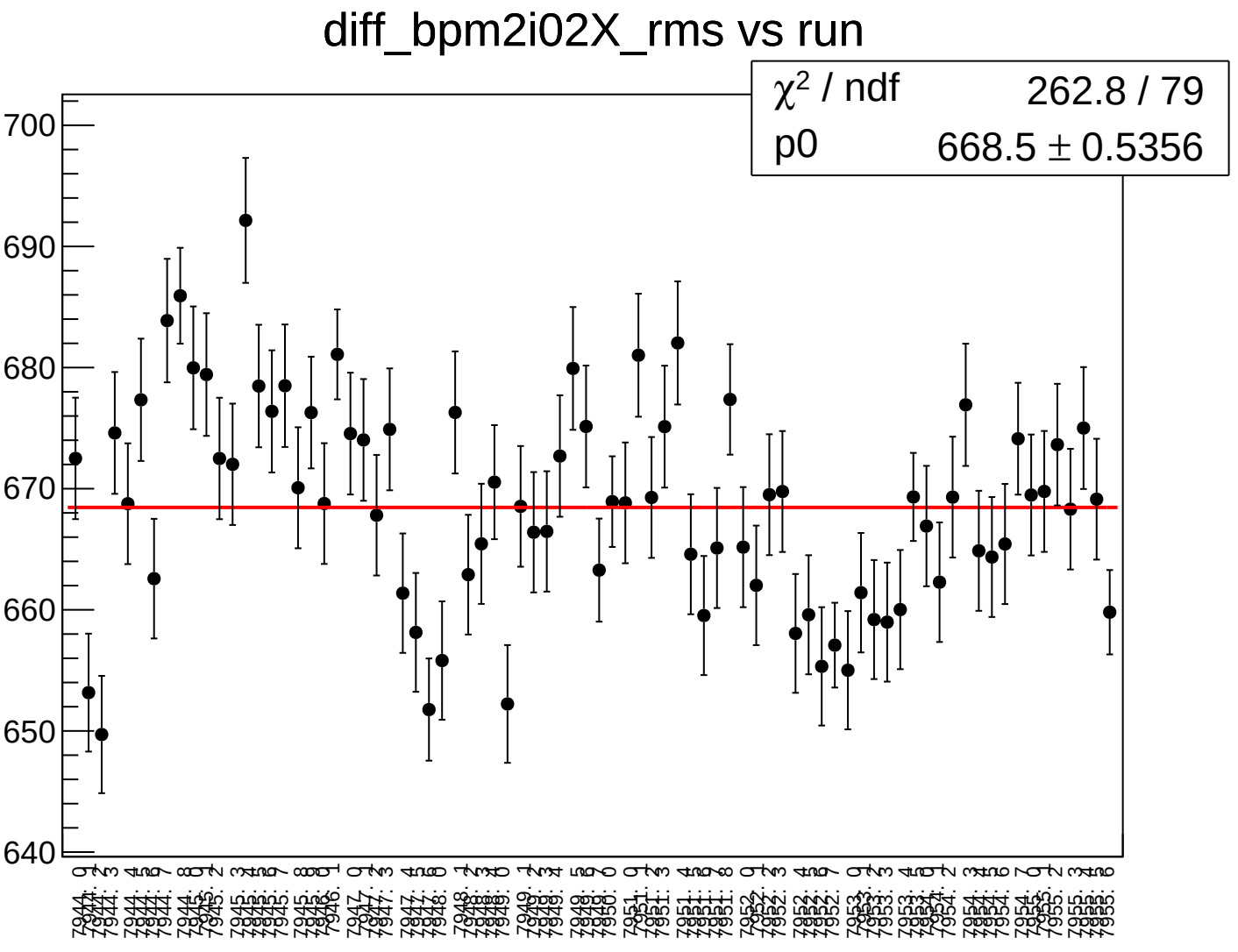

diff_bpm2i01Y_mean vs run
χ² / ndf 106.4 / 79
p0 8.458 ± 0.7538
pull
Entries 80
Mean 513.5
Std Dev 487.7

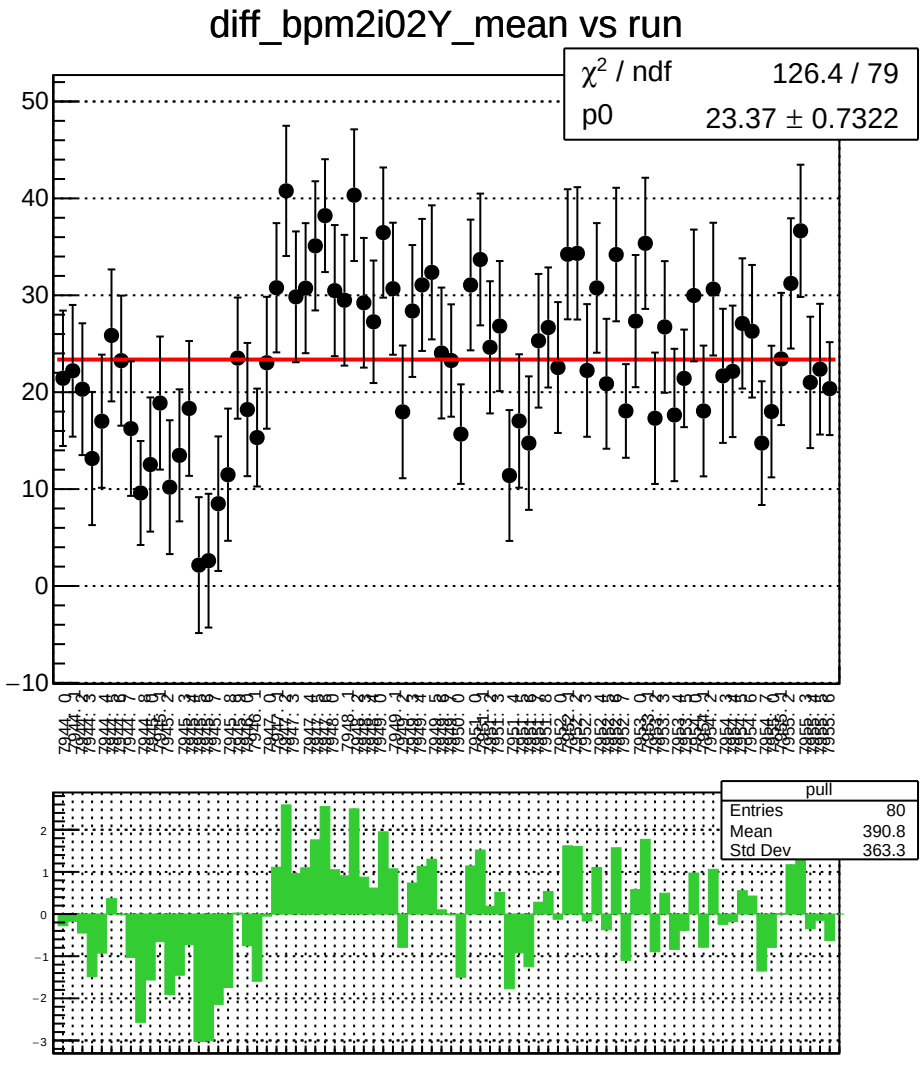

pull1D
Entries 80
Mean 0.01197
Std Dev 1.153

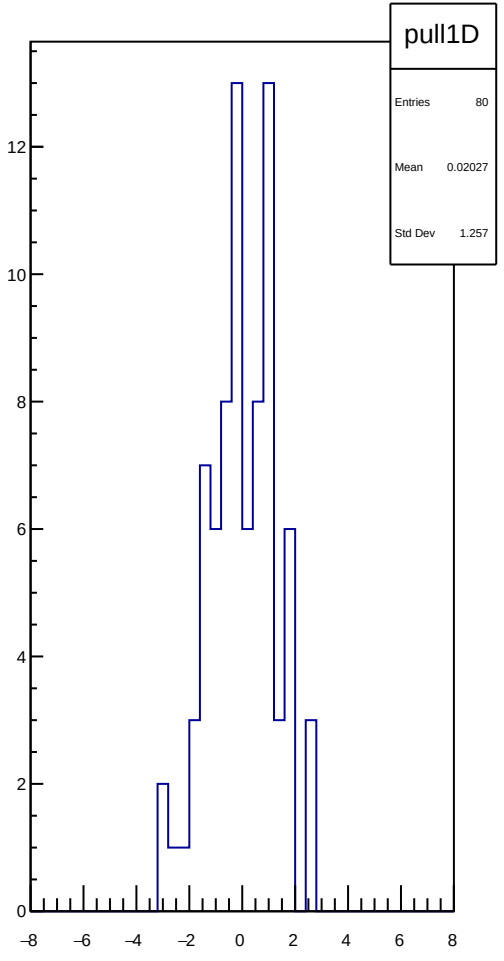

diff_bpm2i01Y_rms vs run
χ^2 / ndf 1453 / 79
p0 665 ± 0.533
740
720
700
680
660
640
620

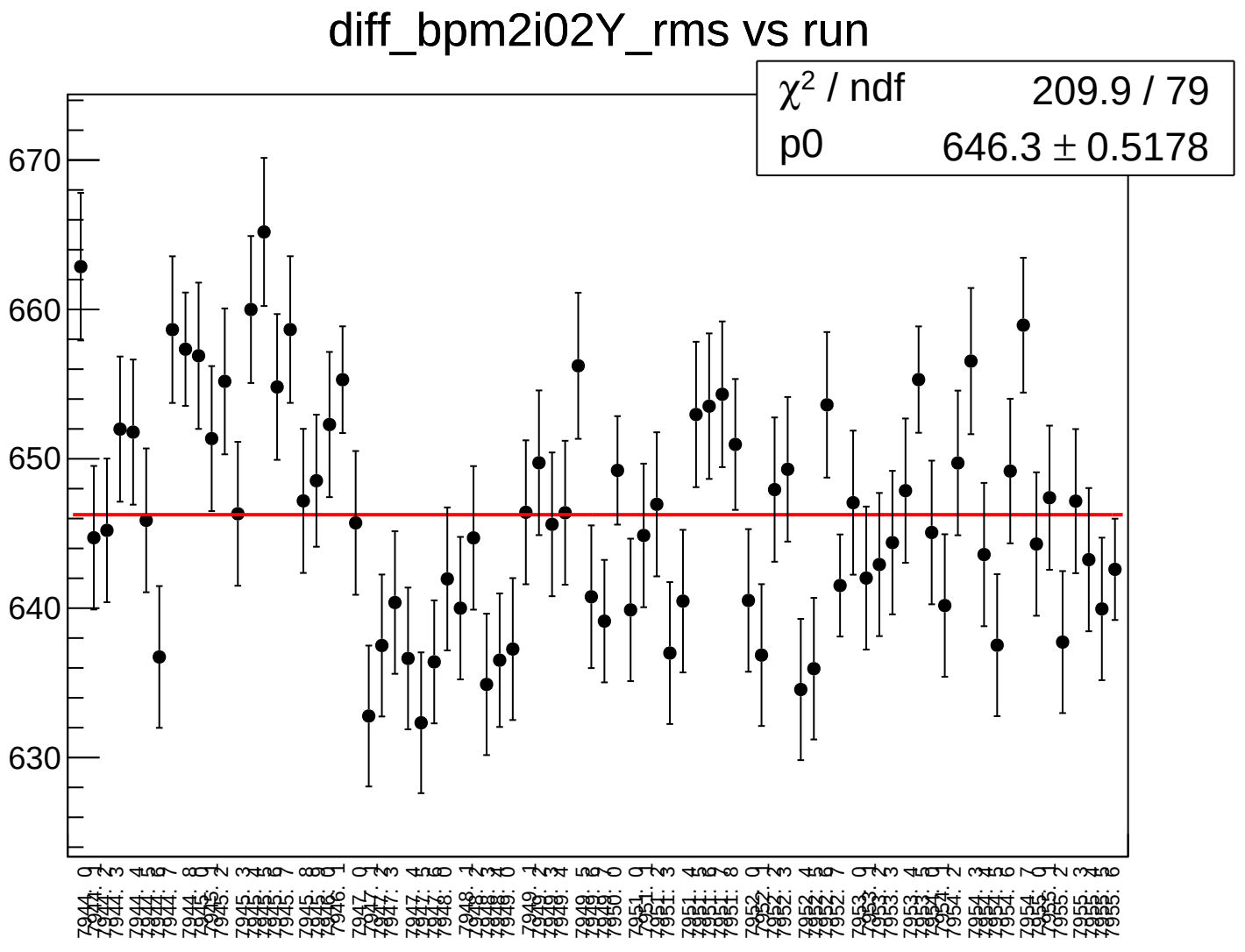

diff_bpm2i02X_mean vs run
χ² / ndf 70.36 / 79
p0 −21.99 ± 0.7574
pull
Entries 80
Mean 159.8
Std Dev 125.2

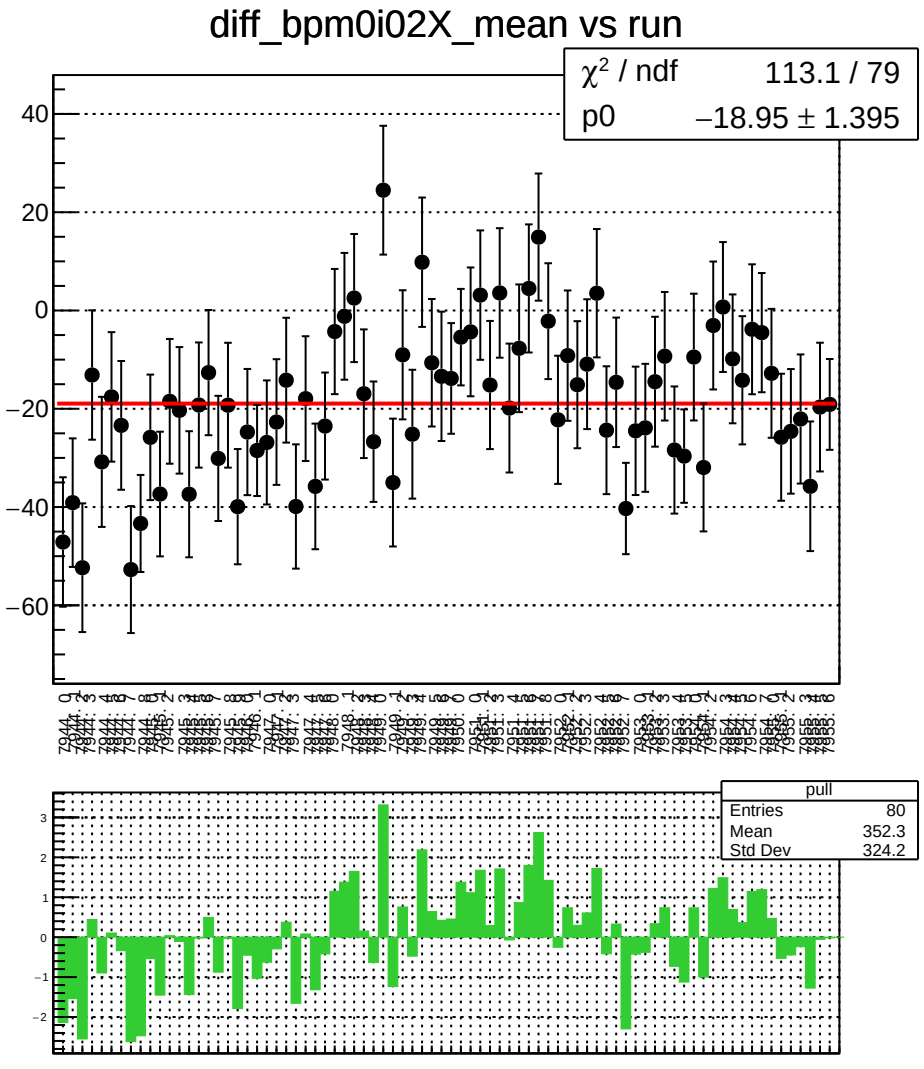

pull1D
Entries 80
Mean 0.01874
Std Dev 0.9376

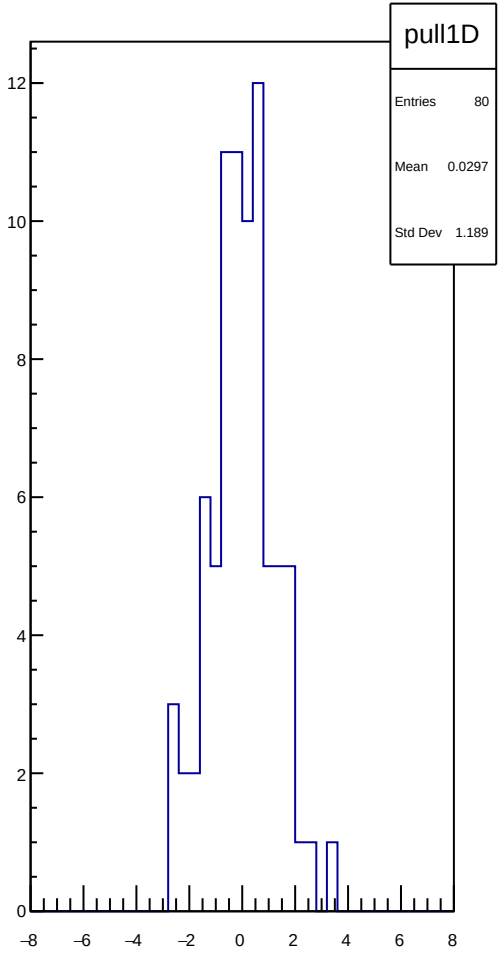

diff_bpm2i02X_rms vs run
χ² / ndf 262.8 / 79
p0 668.5 ± 0.5356
700
690
680
670
660
650
640

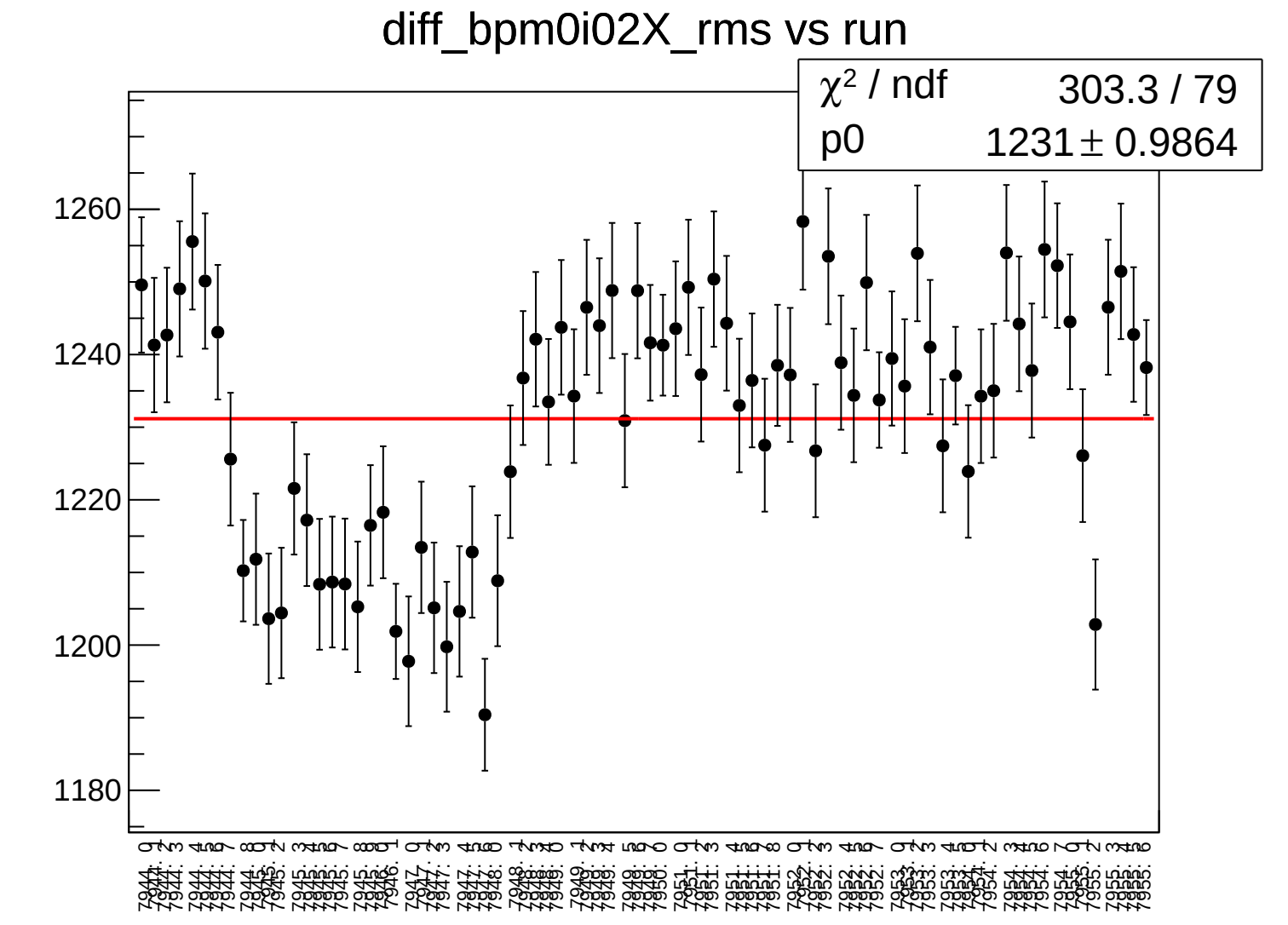

diff_bpm2i02Y_mean vs run
χ² / ndf 126.4 / 79
p0 23.37 ± 0.7322
pull
Entries 80
Mean 390.8
Std Dev 363.3

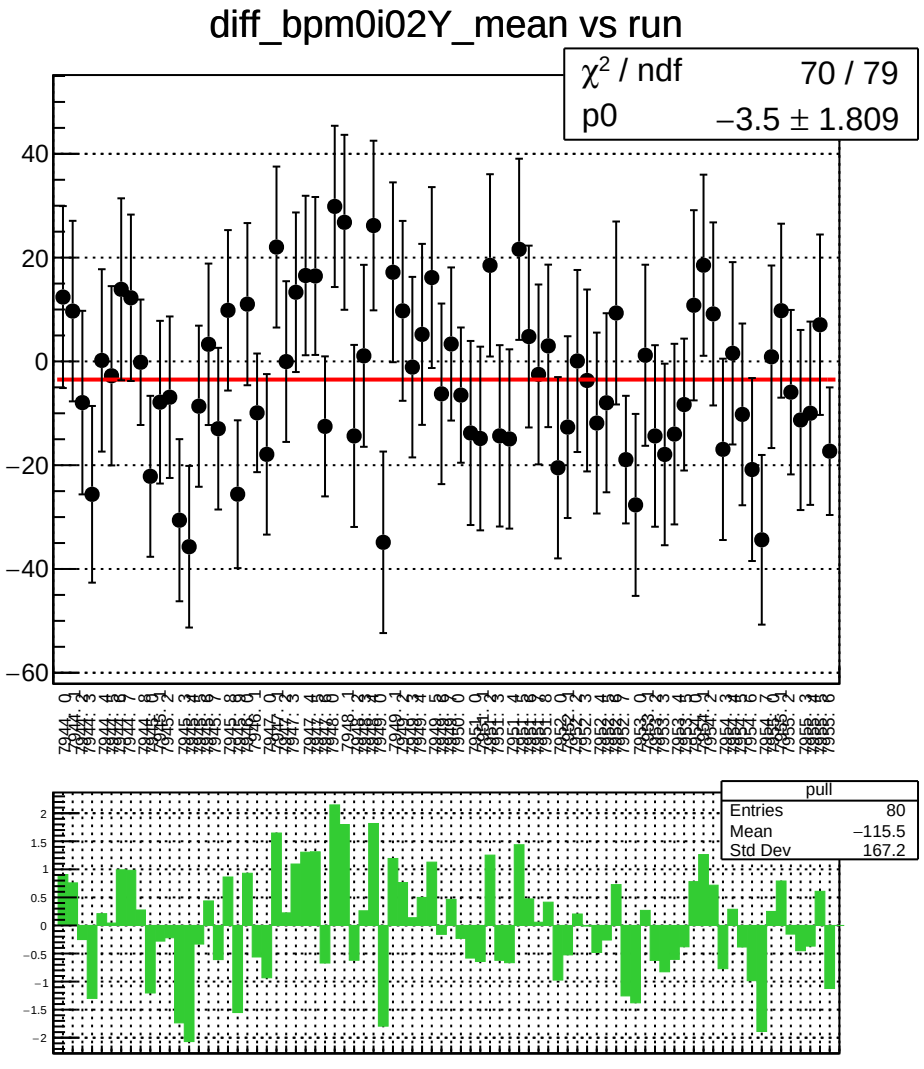

pull1D
Entries 80
Mean 0.02027
Std Dev 1.257

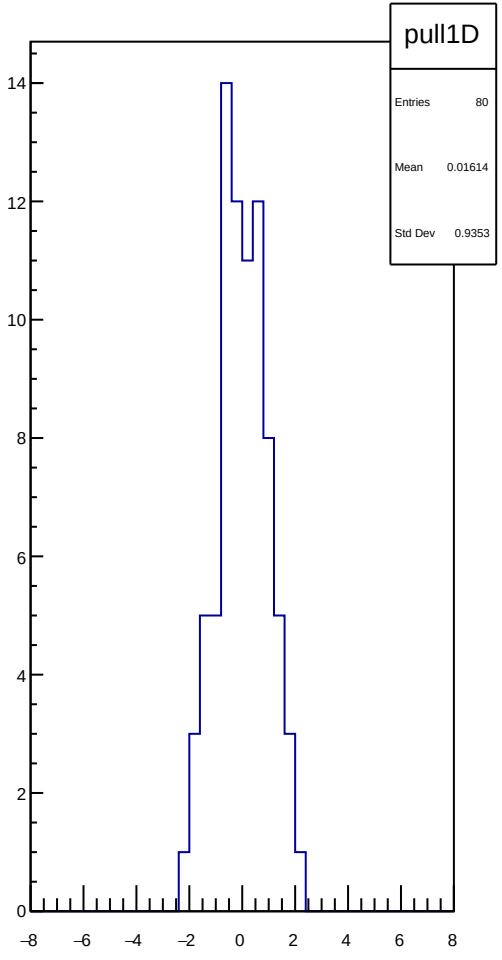

diff_bpm2i02Y_rms vs run
χ² / ndf 209.9 / 79
p0 646.3 ± 0.5178
670
660
650
640
630

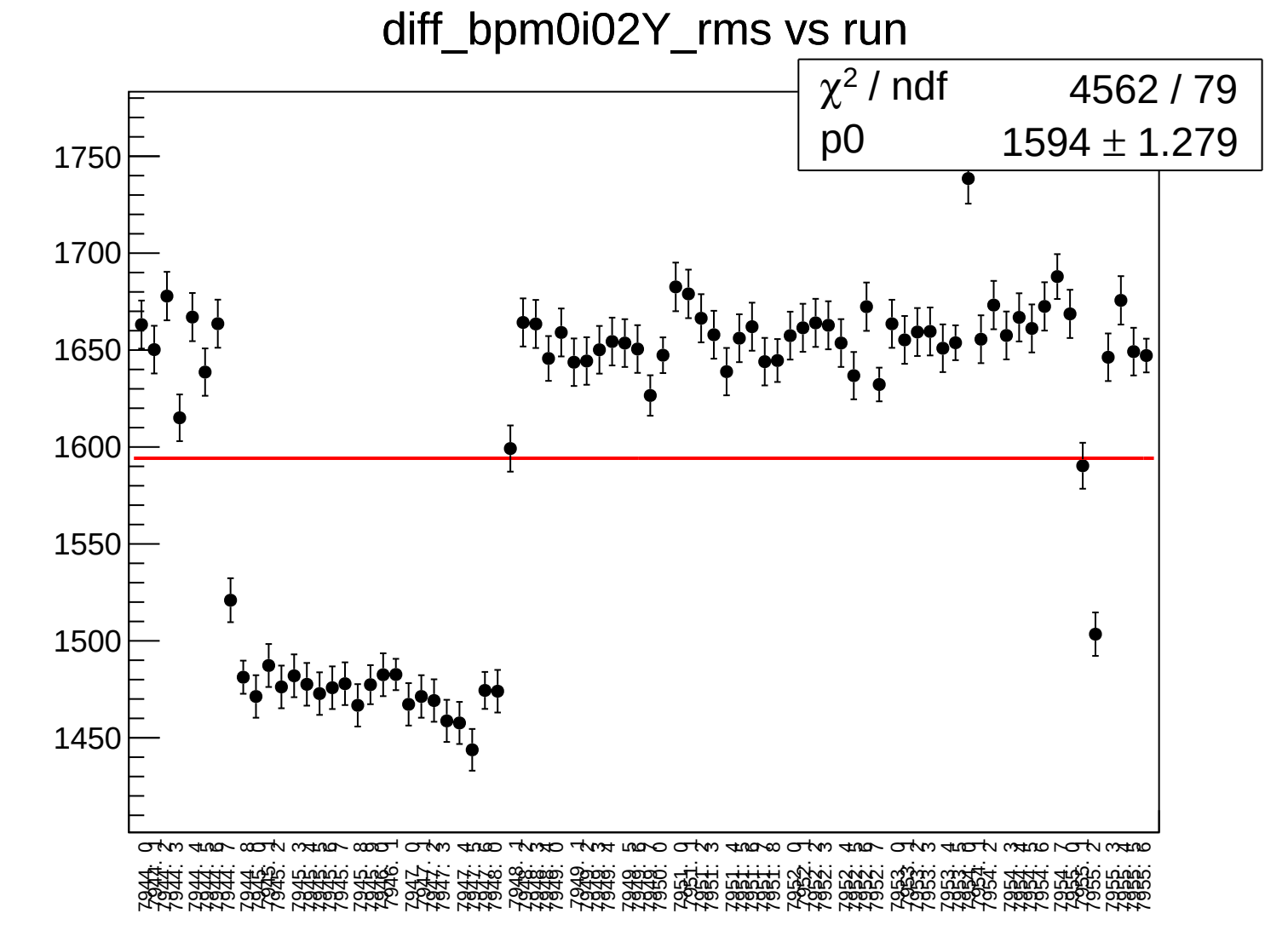

diff_bpm0i02X_mean vs run
χ² / ndf 113.1 / 79
p0 −18.95 ± 1.395
pull
Entries 80
Mean 352.3
Std Dev 324.2

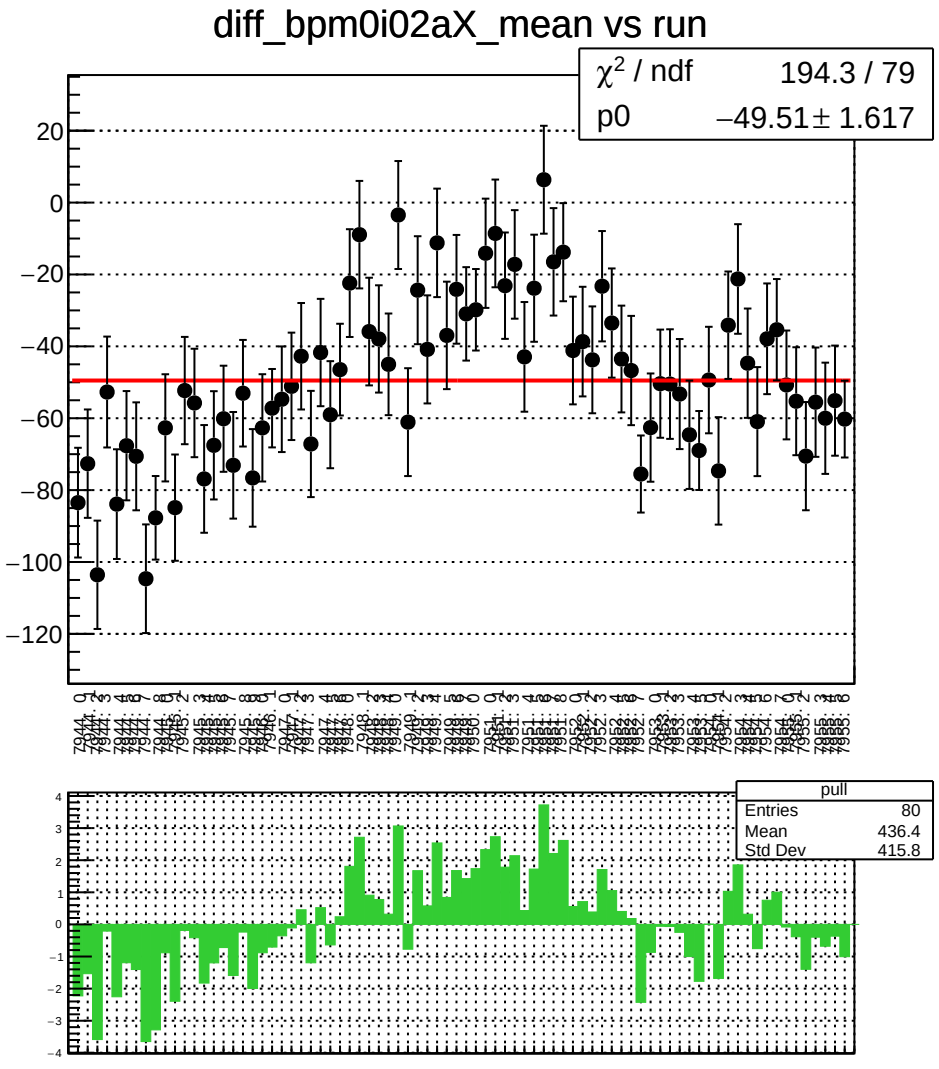

pull1D
Entries 80
Mean 0.0297
Std Dev 1.189

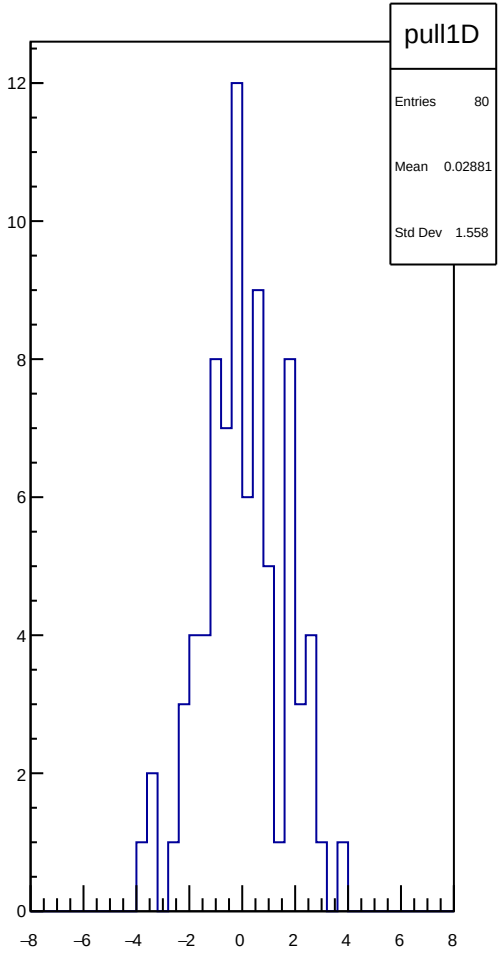

diff_bpm0i02X_rms vs run
χ² / ndf 303.3 / 79
p0 1231 ± 0.9864
1260
1240
1220
1200
1180

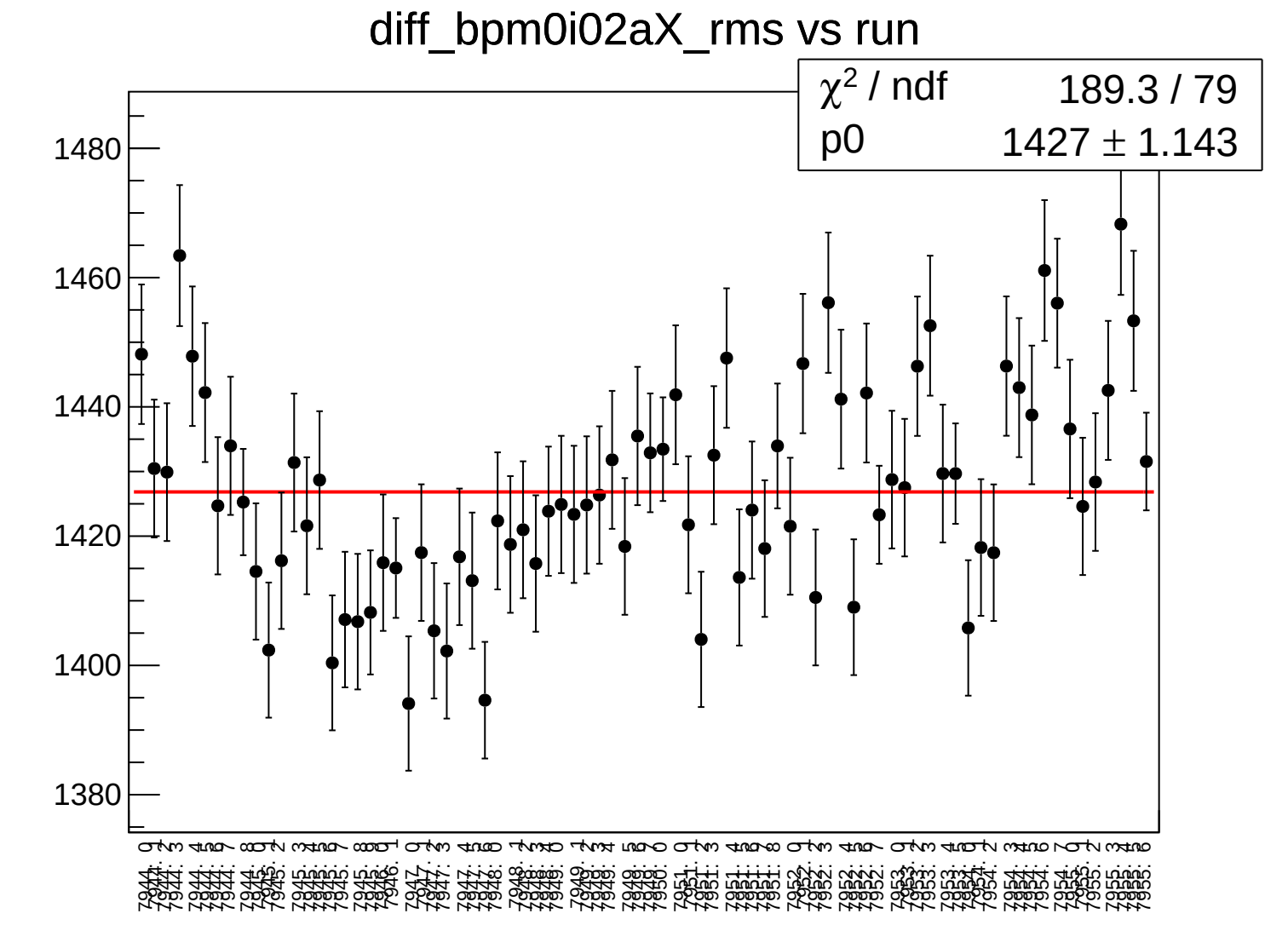

diff_bpm0i02Y_mean vs run
χ² / ndf 70 / 79
p0 −3.5 ± 1.809
pull
Entries 80
Mean −115.5
Std Dev 167.2

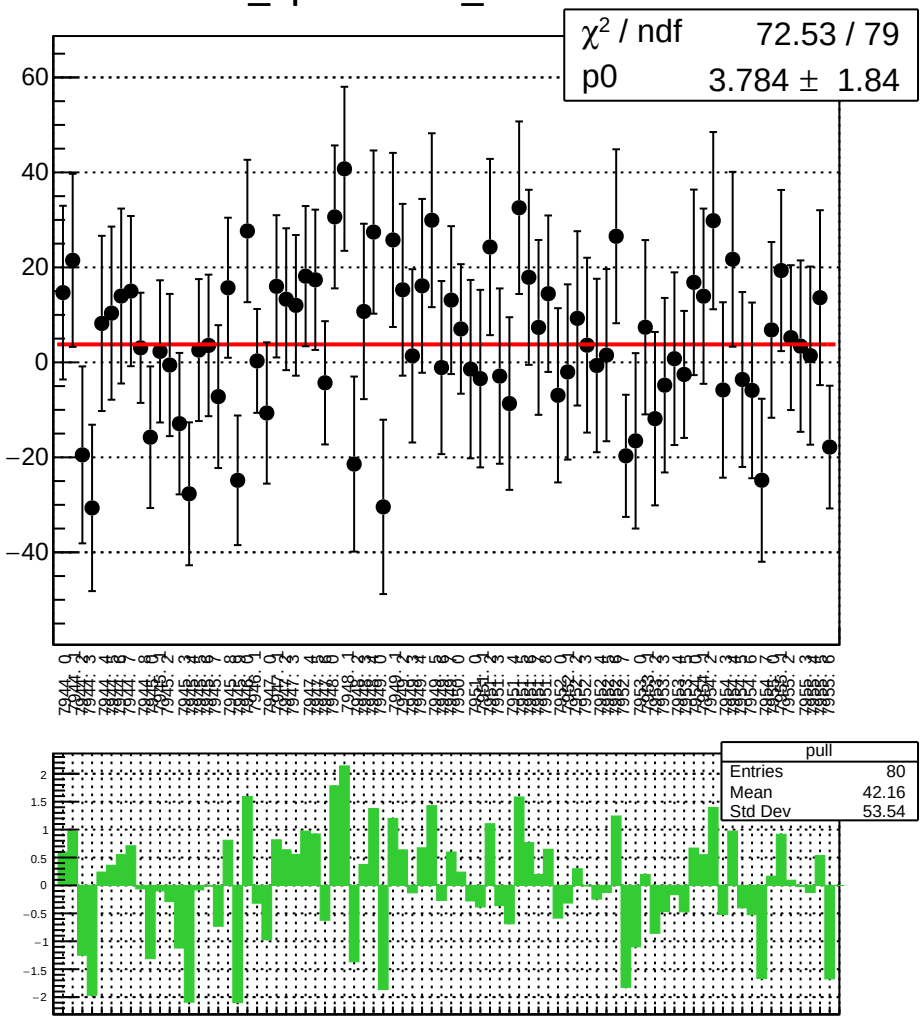

pull1D
Entries 80
Mean 0.01614
Std Dev 0.9353

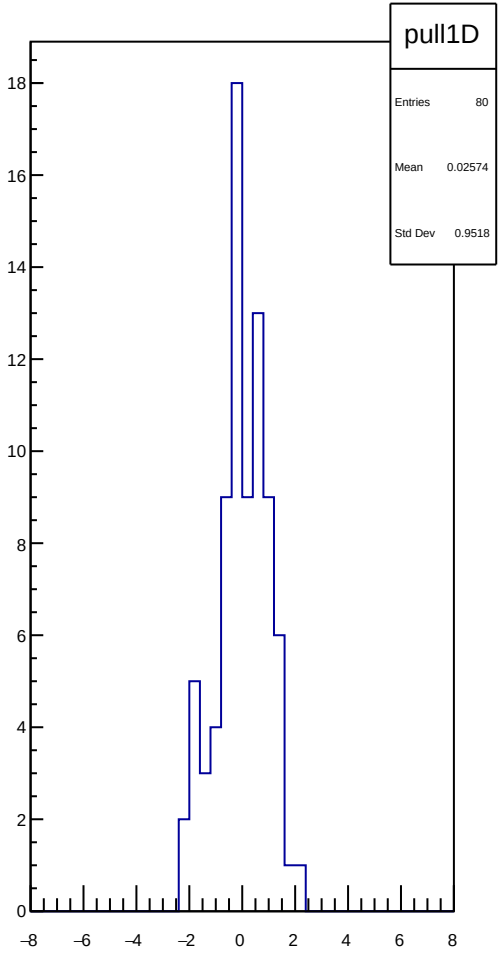

diff_bpm0i02Y_rms vs run
χ² / ndf 4562 / 79
p0 1594 ± 1.279
1750
1700
1650
1600
1550
1500
1450

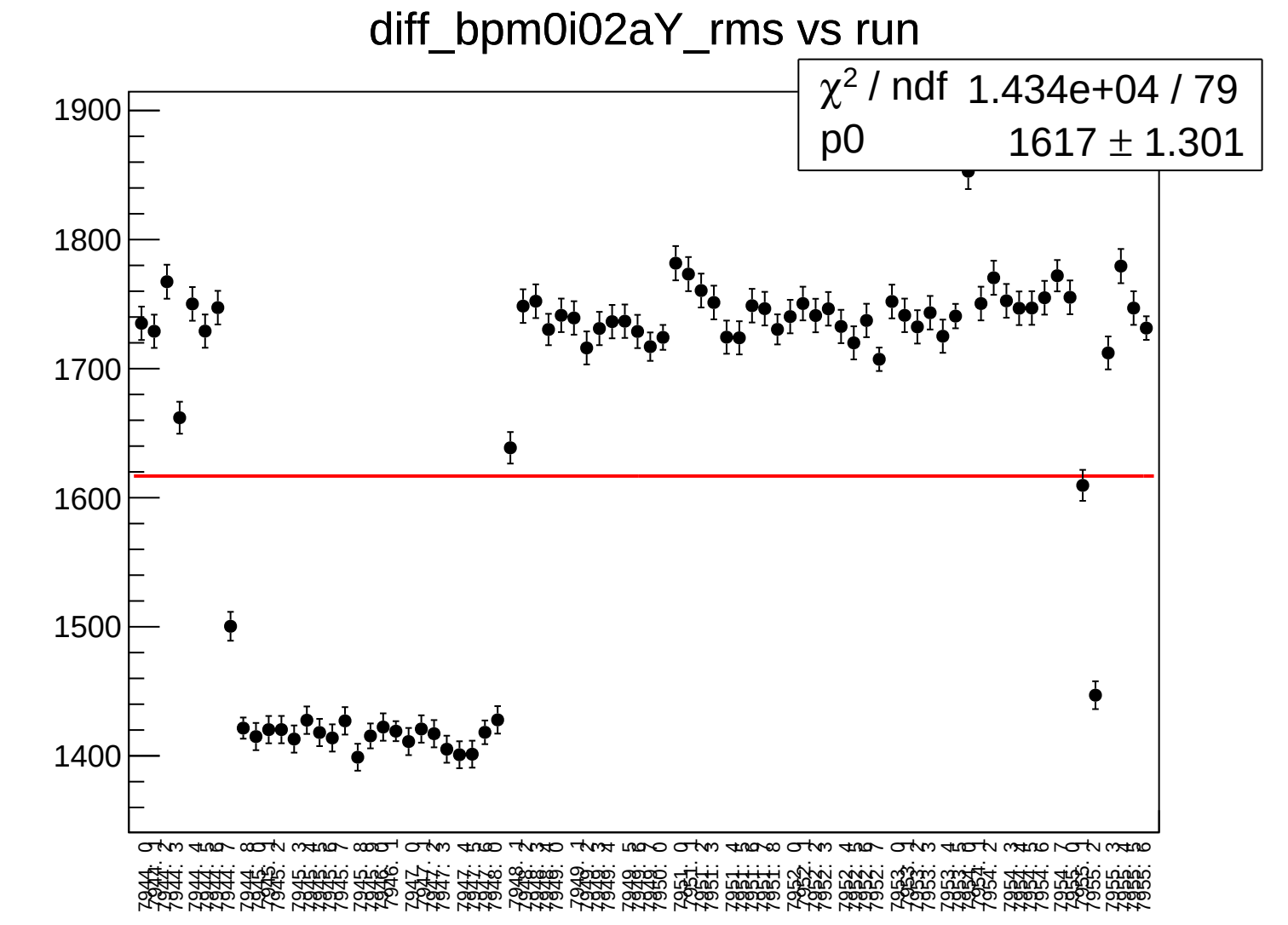

diff_bpm0i02aX_mean vs run
χ² / ndf 194.3 / 79
p0 −49.51 ± 1.617
pull
Entries 80
Mean 436.4
Std Dev 415.8

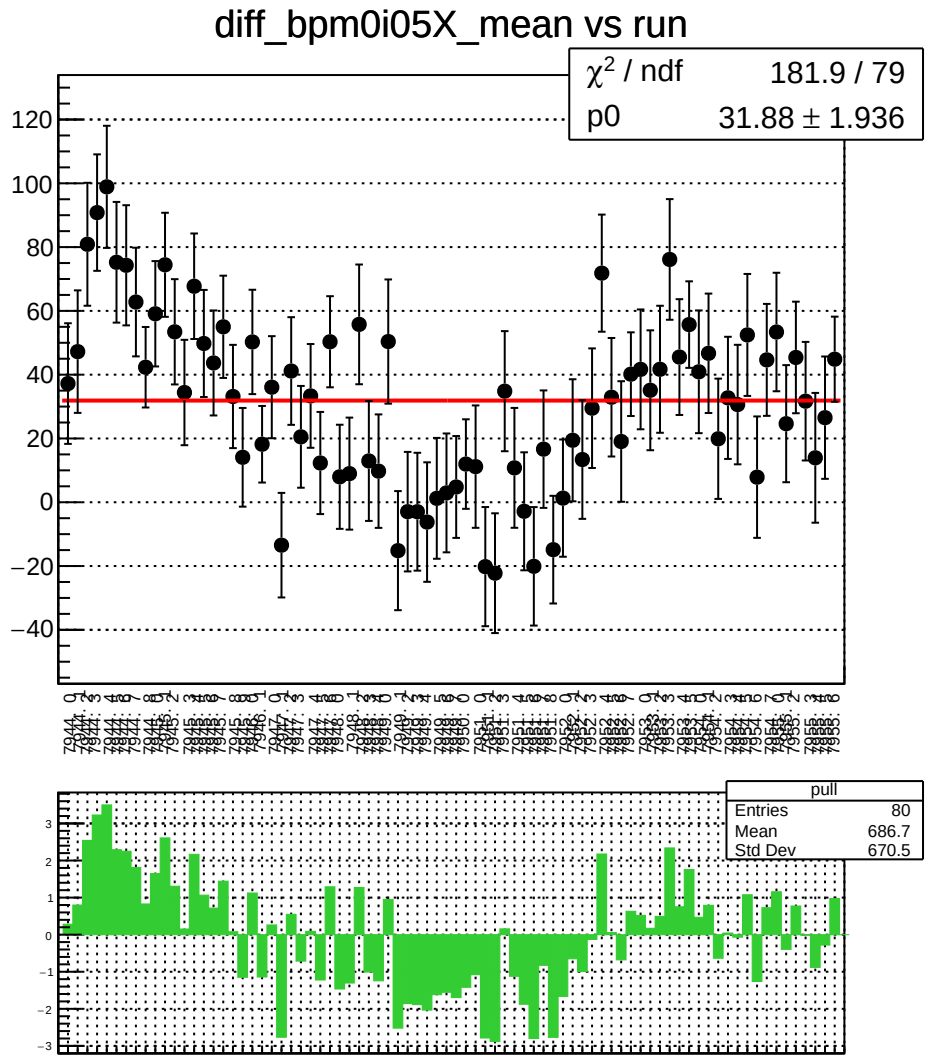

pull1D
Entries 80
Mean 0.02881
Std Dev 1.558

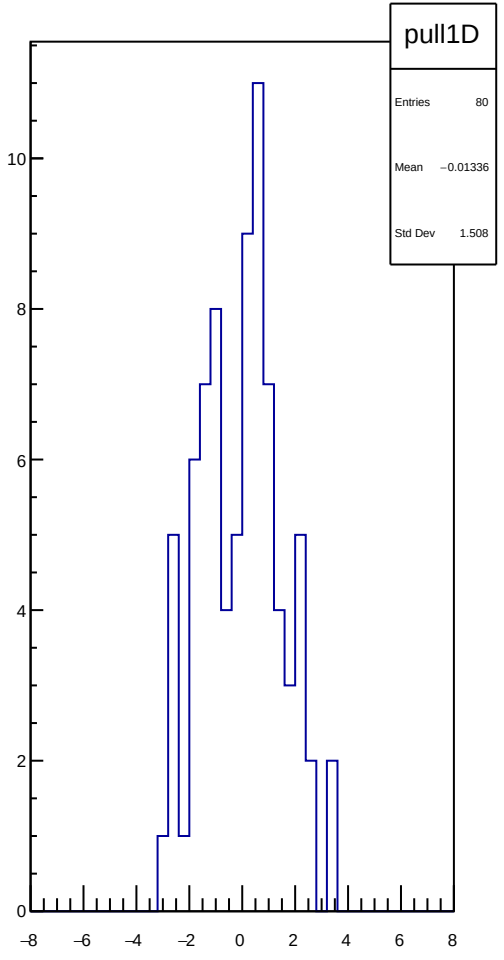

diff_bpm0i02aX_rms vs run
χ² / ndf 189.3 / 79
p0 1427 ± 1.143
1480
1460
1440
1420
1400
1380

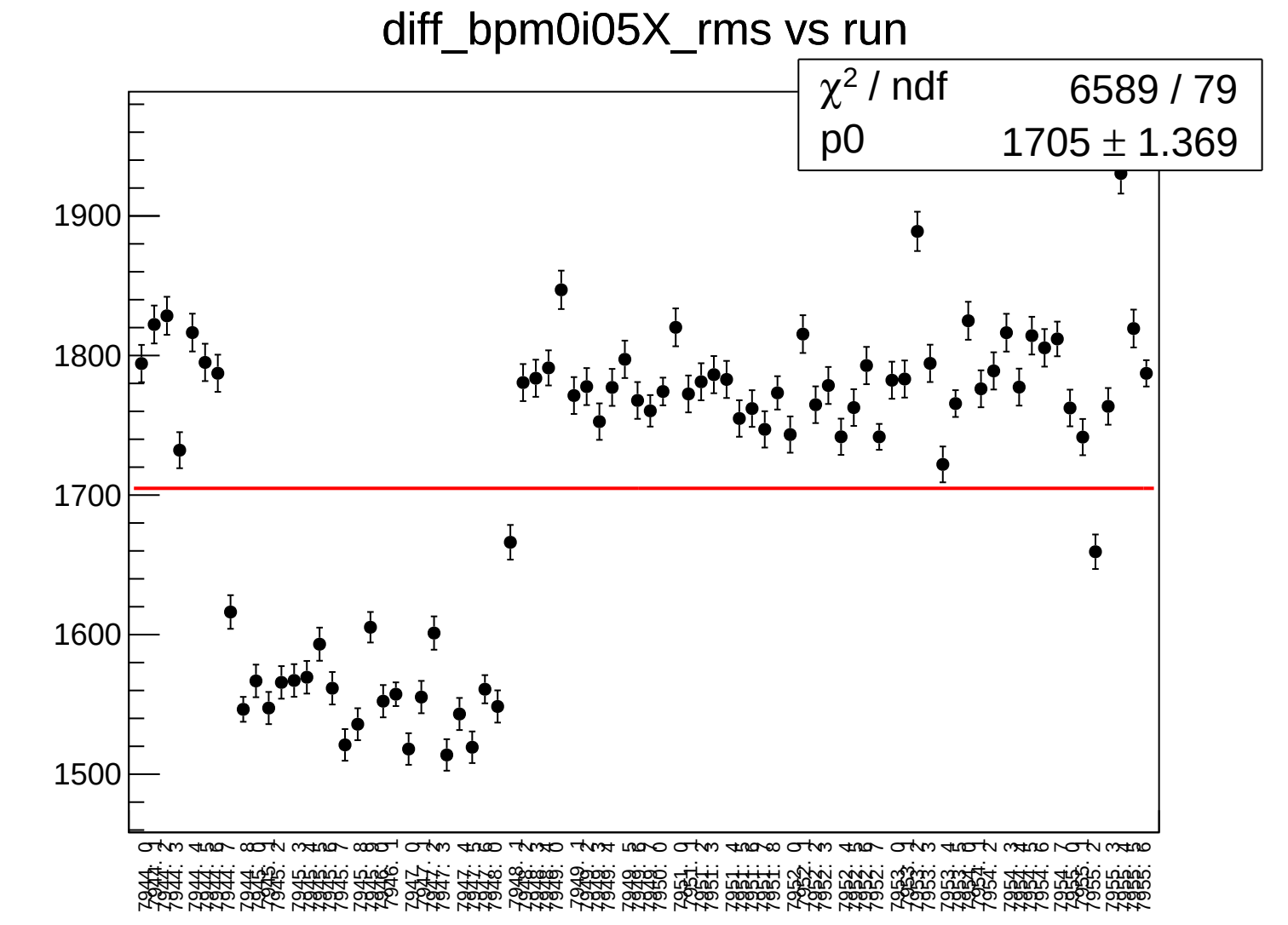

diff_bpm0i02aY_mean vs run
χ² / ndf 72.53 / 79
p0 3.784 ± 1.84
pull
Entries 80
Mean 42.16
Std Dev 53.54

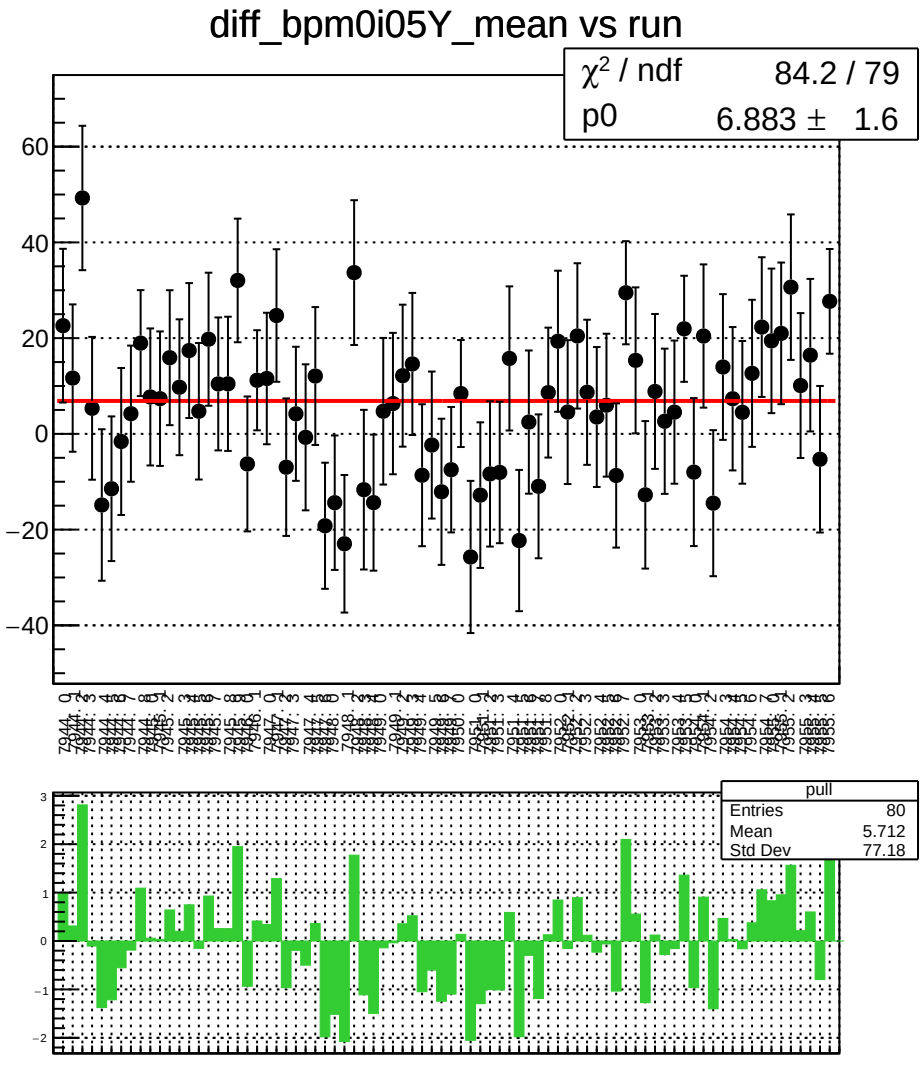

pull1D
Entries 80
Mean 0.02574
Std Dev 0.9518

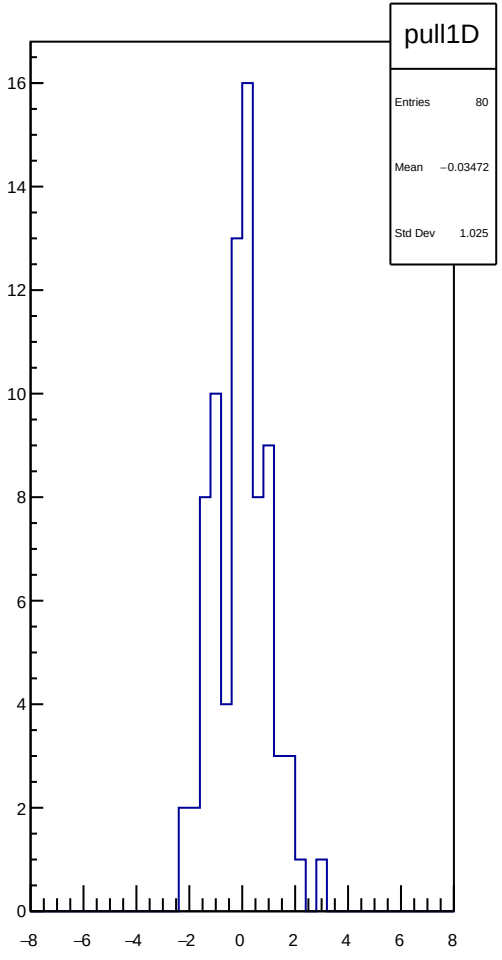

diff_bpm0i02aY_rms vs run
χ² / ndf 1.434e+04 / 79
p0 1617 ± 1.301
1900
1800
1700
1600
1500
1400

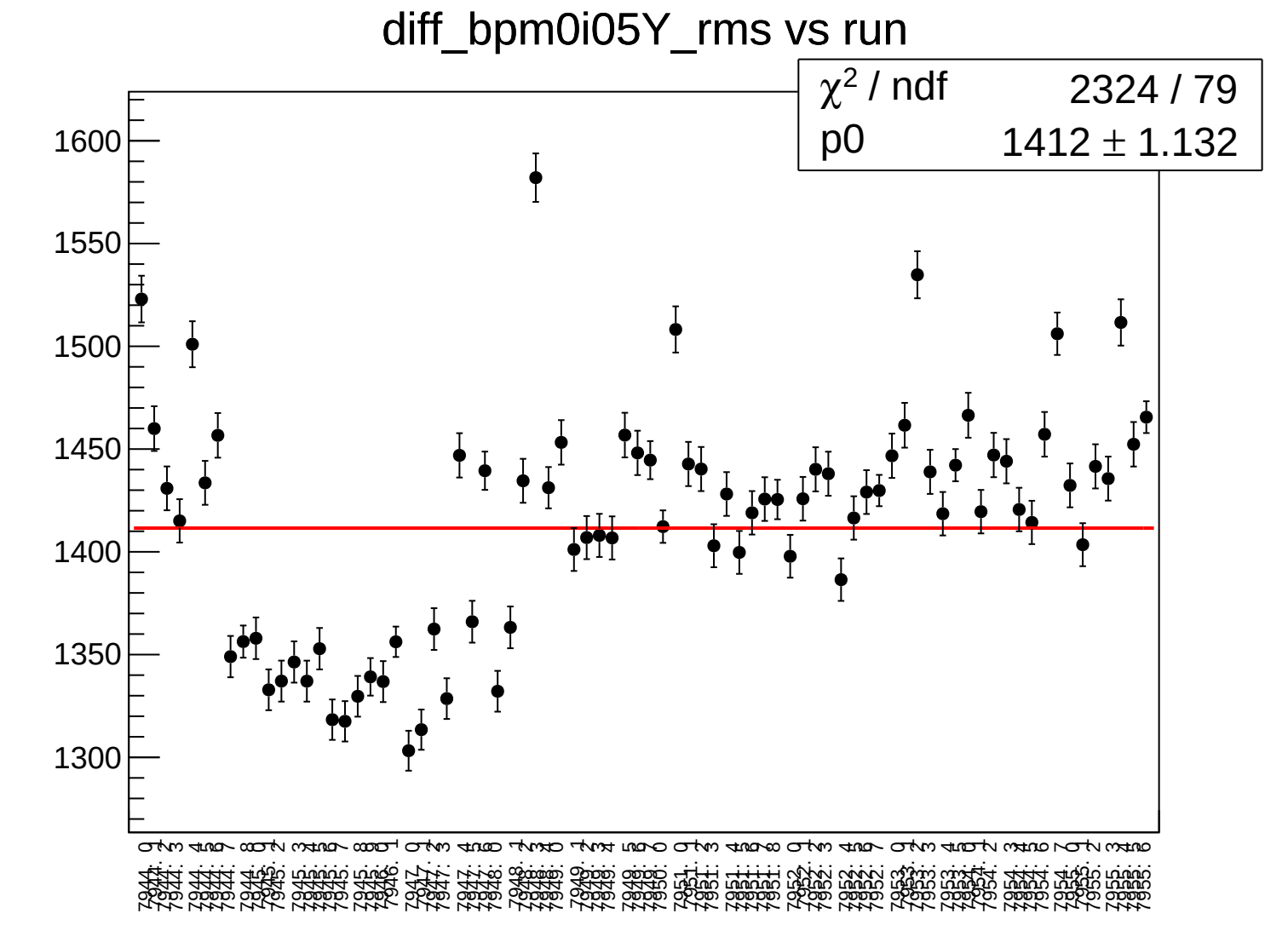

diff_bpm0i05X_mean vs run
χ^2 / ndf 181.9 / 79
p0 31.88 ± 1.936
pull
Entries 80
Mean 686.7
Std Dev 670.5

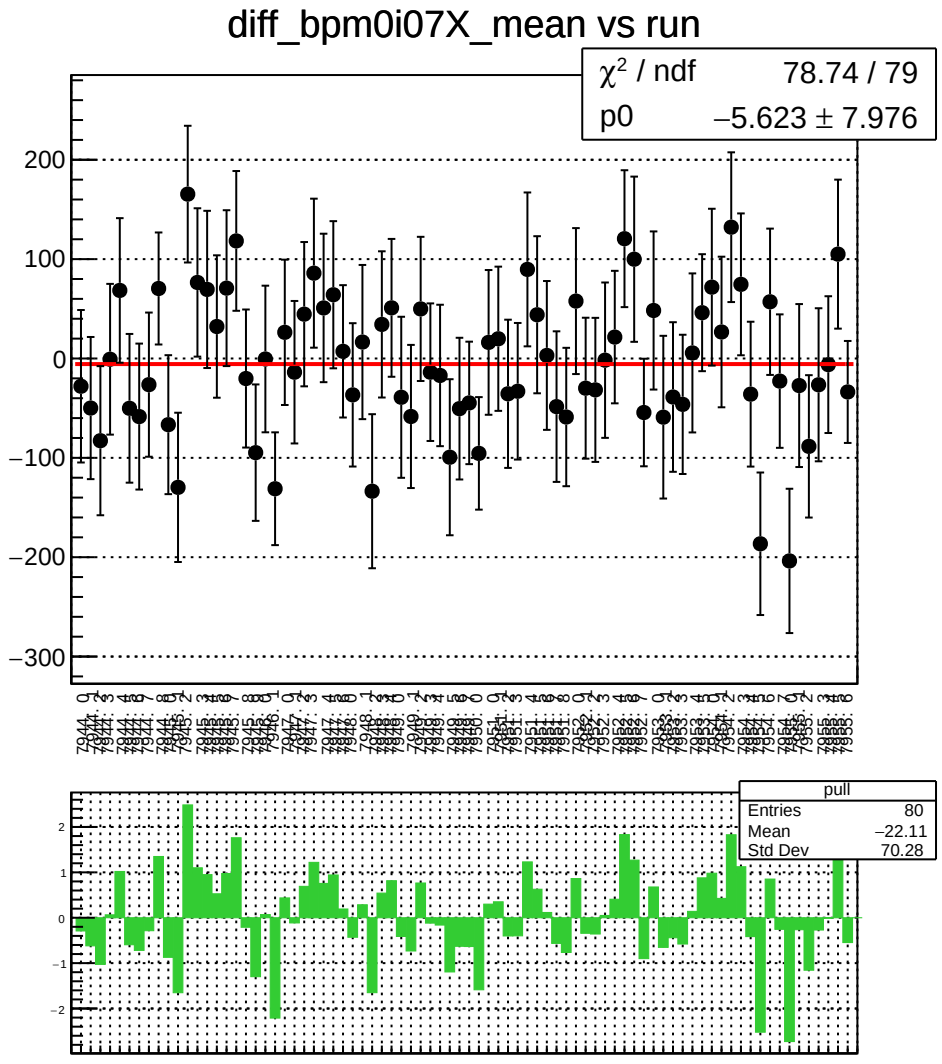

pull1D
Entries 80
Mean −0.01336
Std Dev 1.508

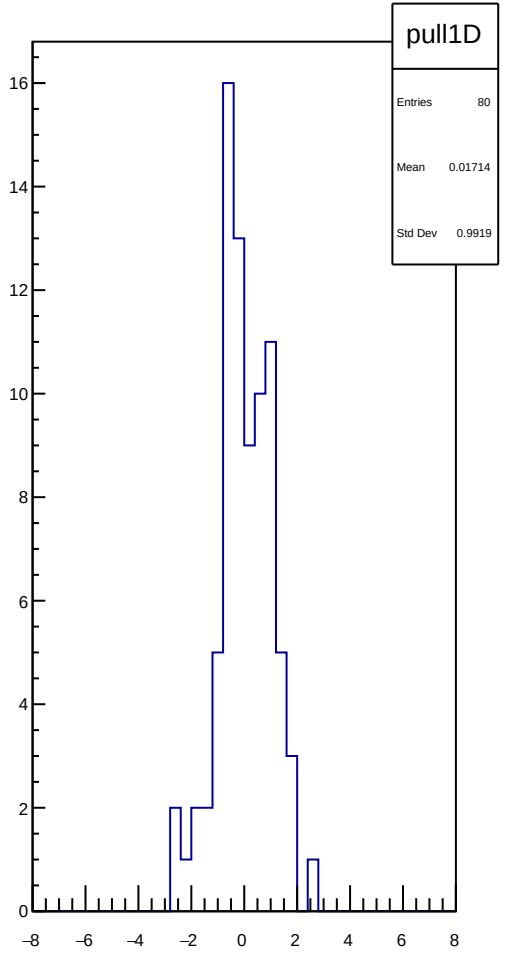

diff_bpm0i05X_rms vs run
χ² / ndf 6589 / 79
p0 1705 ± 1.369
1900
1800
1700
1600
1500

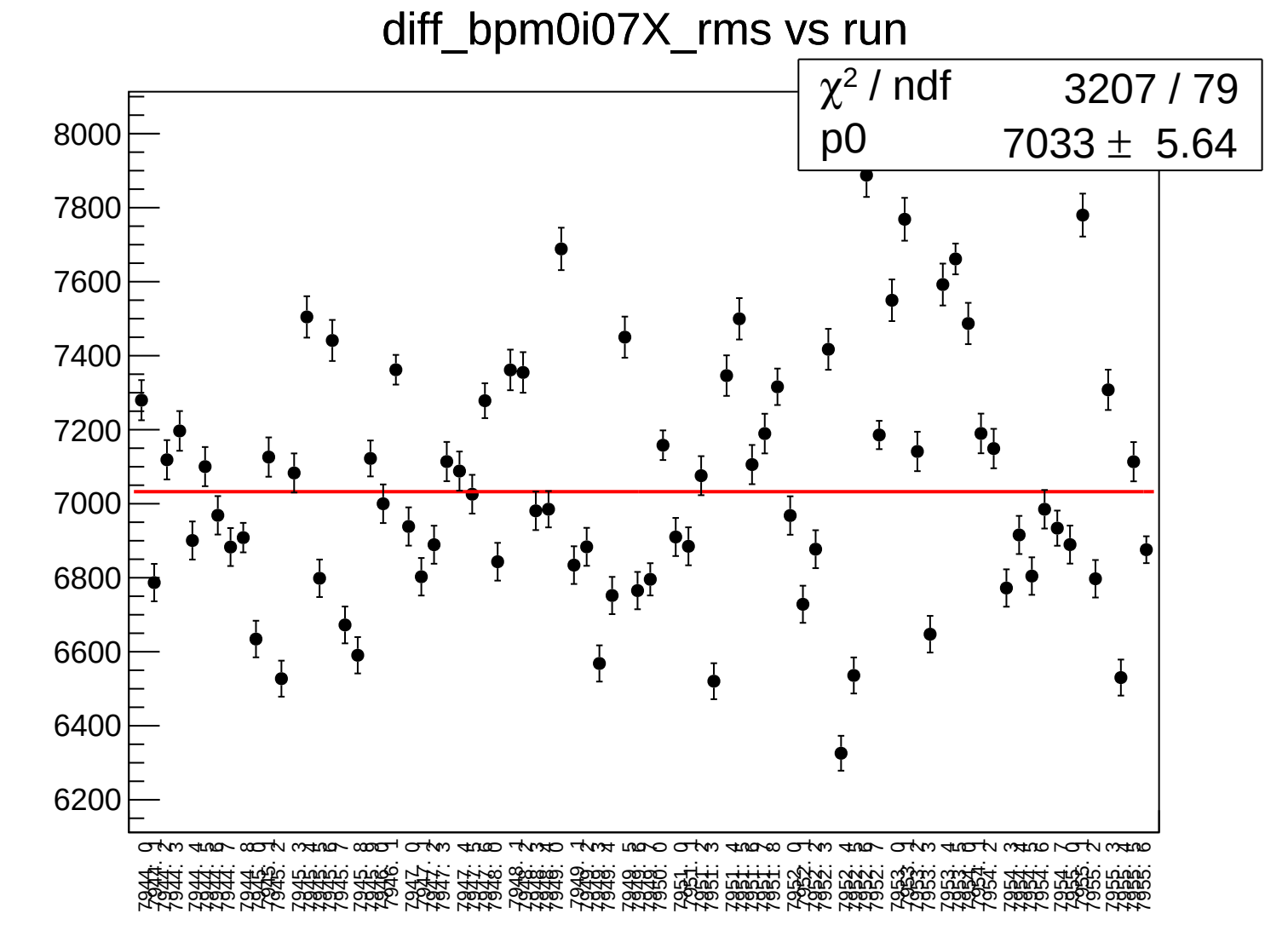

diff_bpm0i05Y_mean vs run
χ² / ndf 84.2 / 79
p0 6.883 ± 1.6
pull
Entries 80
Mean 5.712
Std Dev 77.18

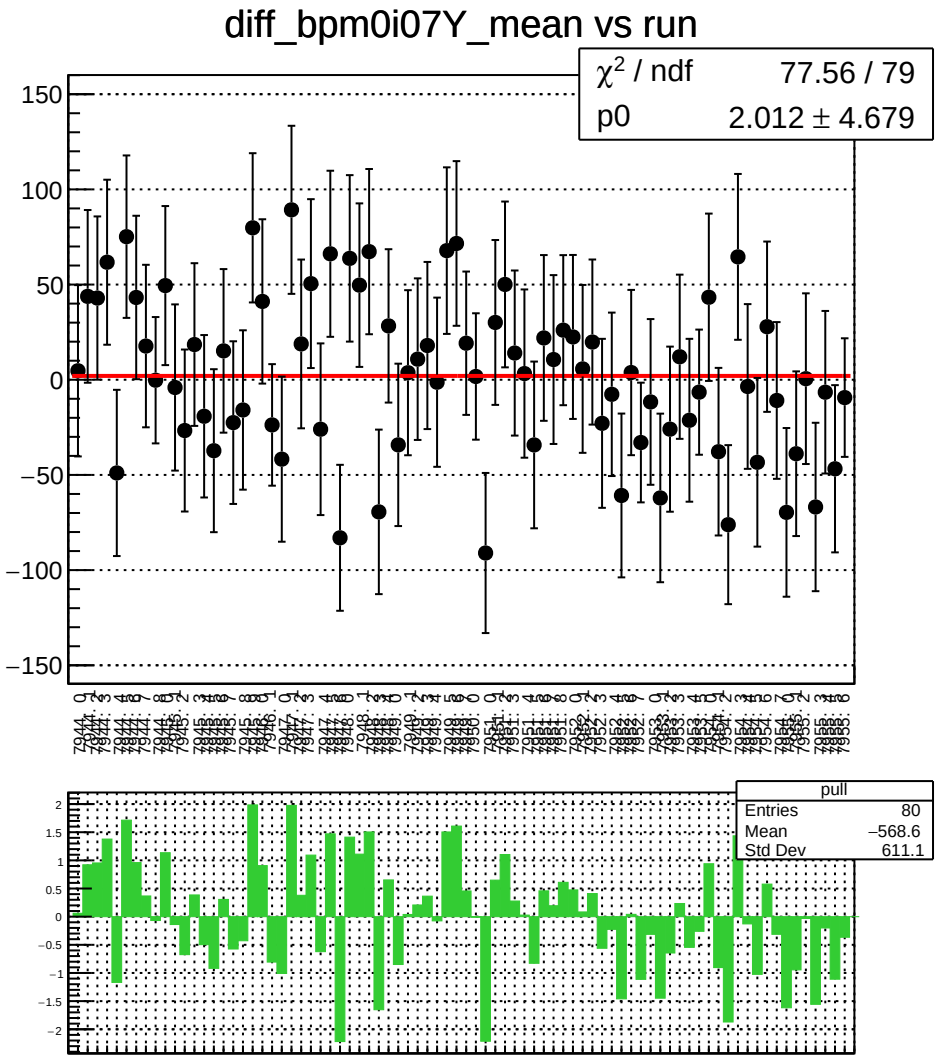

pull1D
Entries 80
Mean −0.03472
Std Dev 1.025

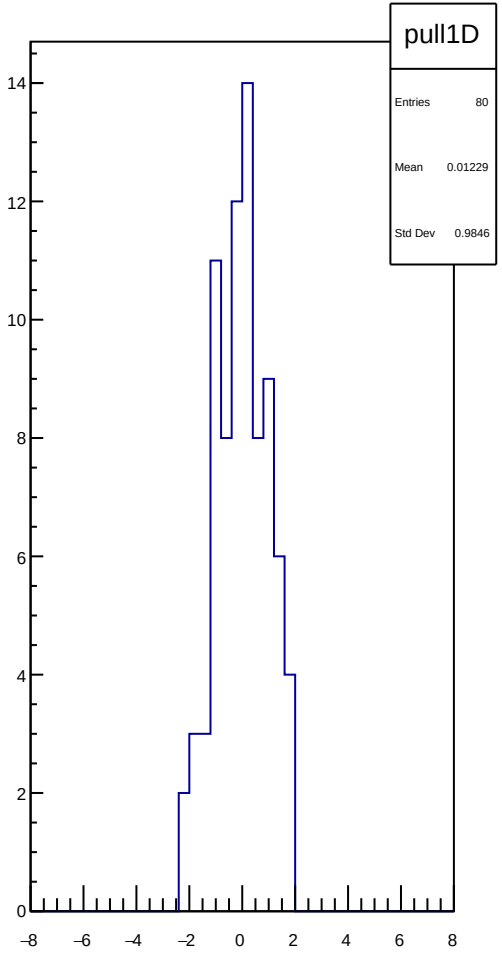

diff_bpm0i05Y_rms vs run
χ² / ndf 2324 / 79
p0 1412 ± 1.132
1600
1550
1500
1450
1400
1350
1300

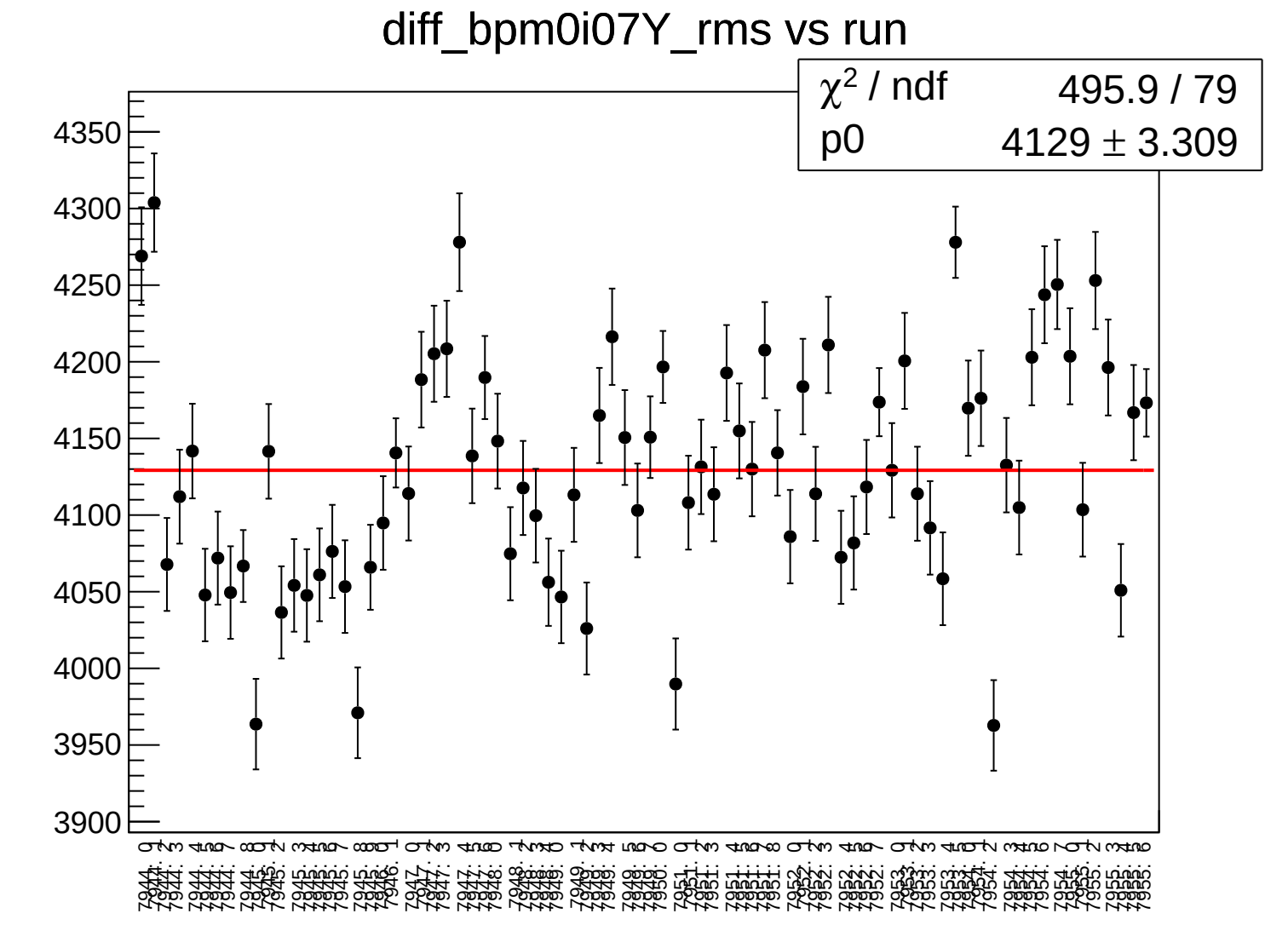

diff_bpm0i07X_mean vs run
χ² / ndf 78.74 / 79
p0 −5.623 ± 7.976
200
100
0
−100
−200
−300
pull
Entries 80
Mean −22.11
Std Dev 70.28
2
1
0
−1
−2

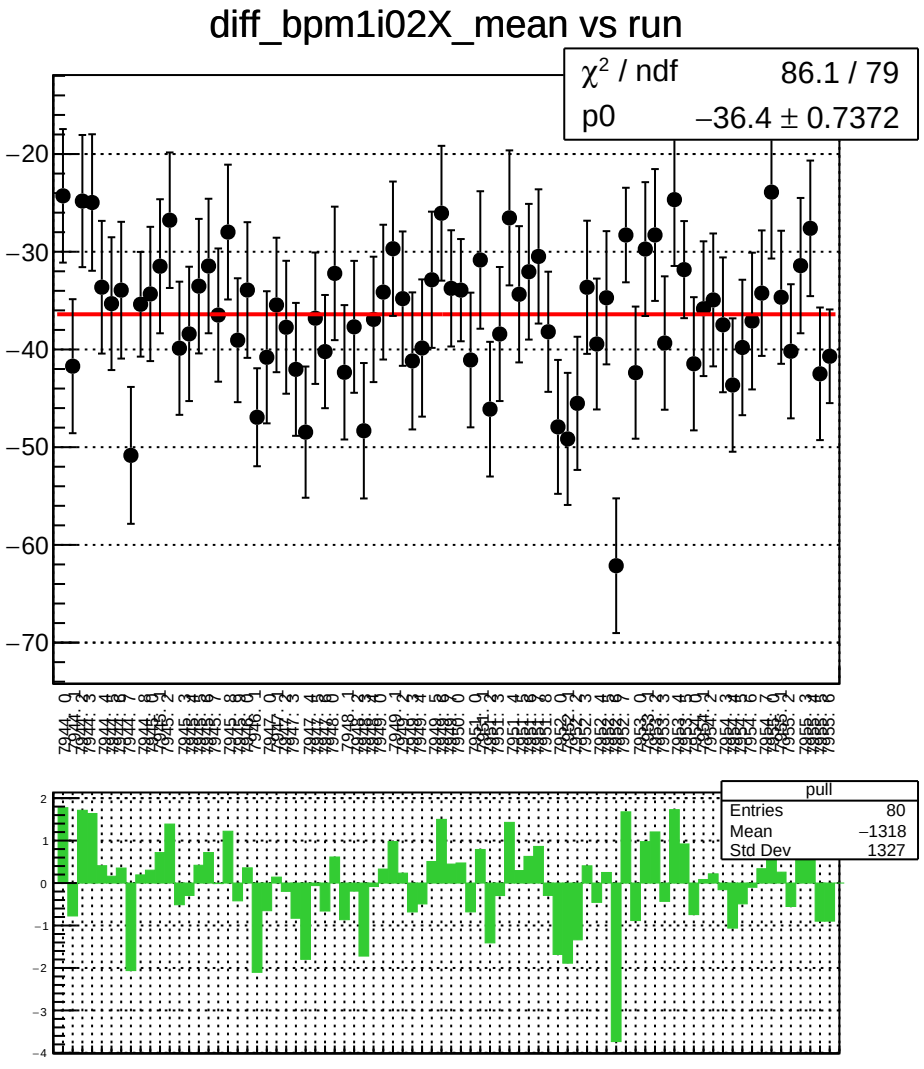

pull1D
Entries 80
Mean 0.01714
Std Dev 0.9919
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

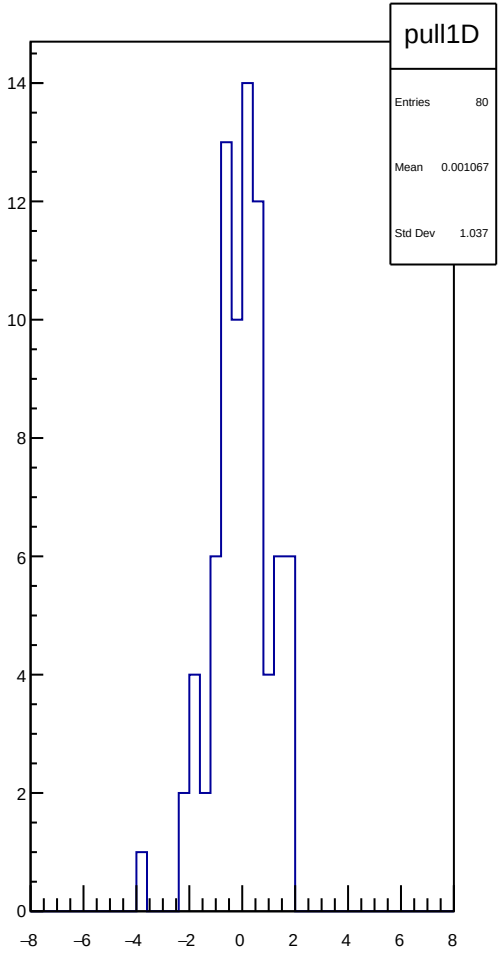

diff_bpm0i07X_rms vs run
χ² / ndf 3207 / 79
p0 7033 ± 5.64
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

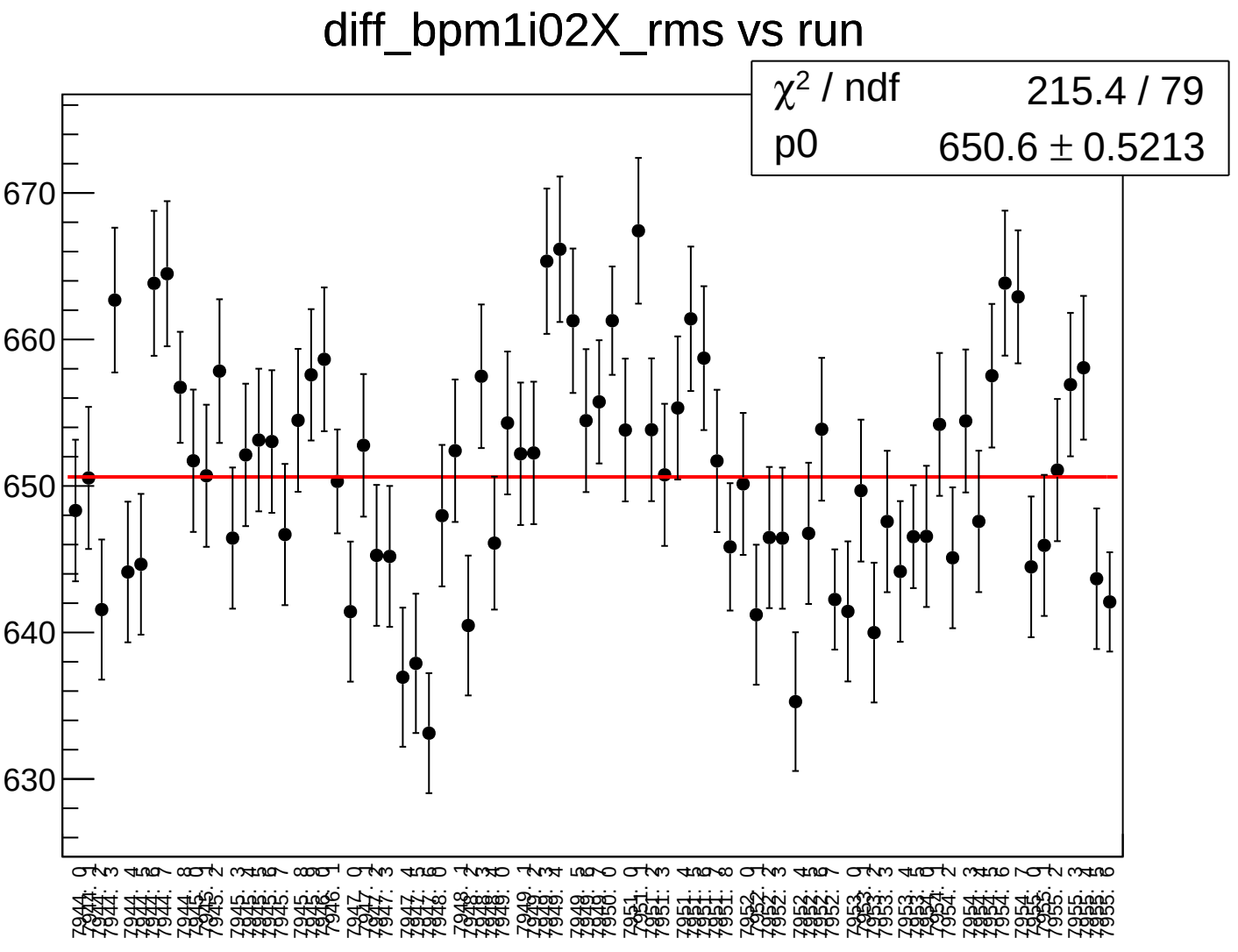

diff_bpm0i07Y_mean vs run
χ² / ndf 77.56 / 79
p0 2.012 ± 4.679
pull
Entries 80
Mean −568.6
Std Dev 611.1

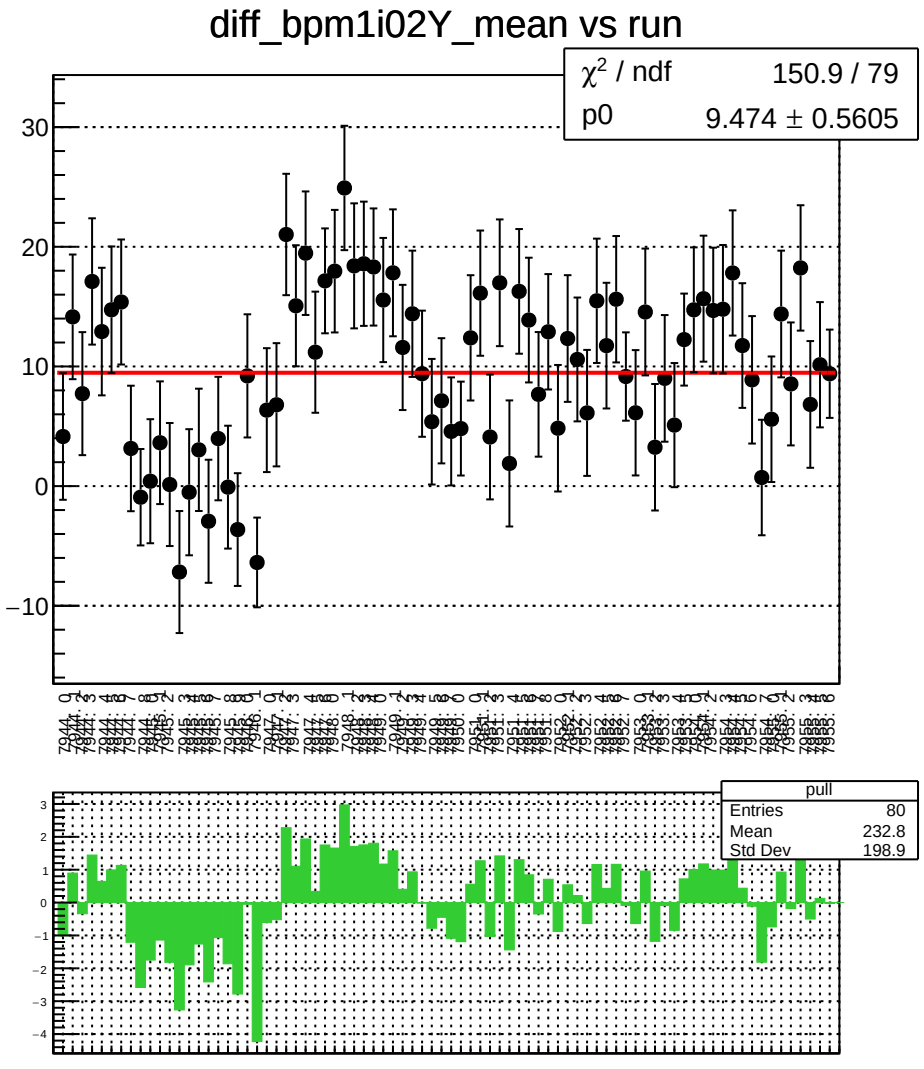

pull1D
Entries 80
Mean 0.01229
Std Dev 0.9846

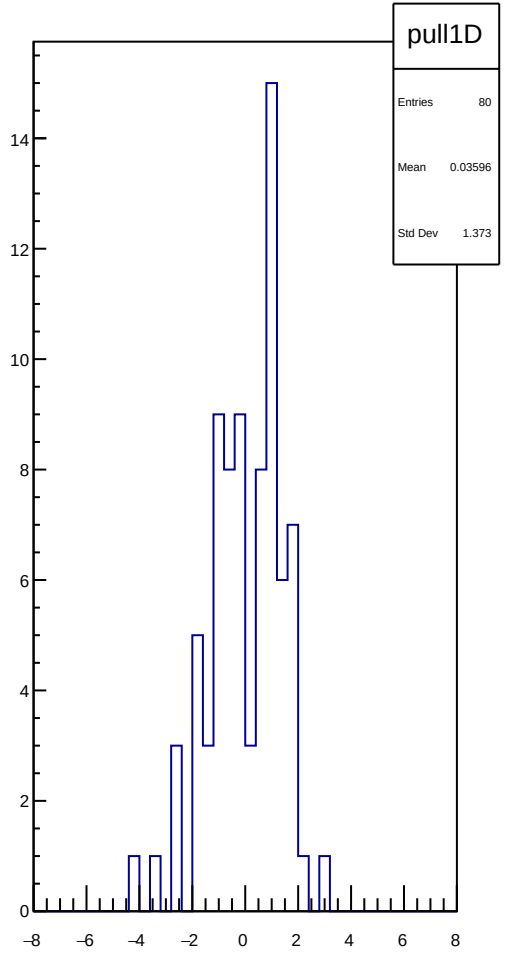

diff_bpm0i07Y_rms vs run
χ² / ndf 495.9 / 79
p0 4129 ± 3.309
4350
4300
4250
4200
4150
4100
4050
4000
3950
3900

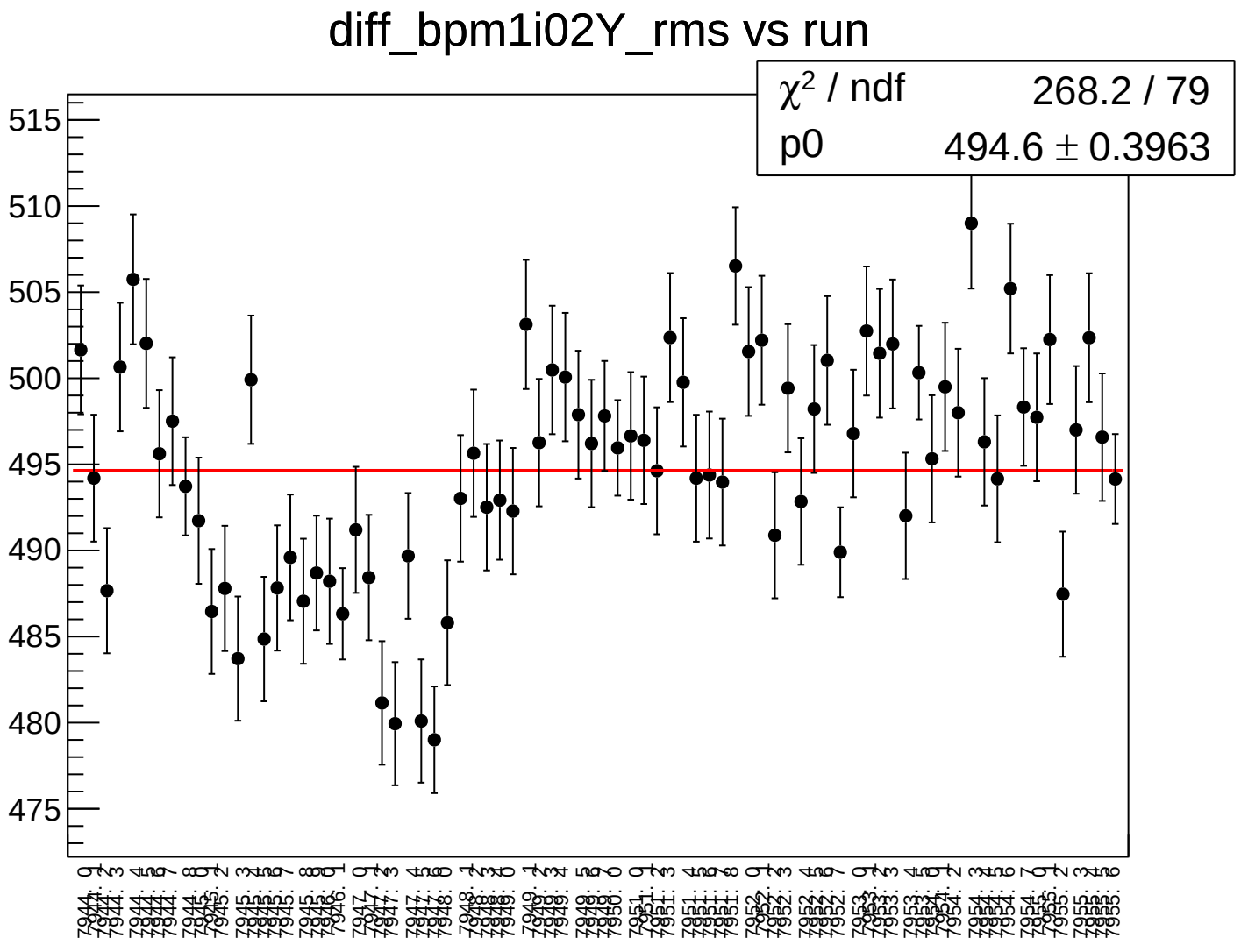

diff_bpm1i02X_mean vs run
χ² / ndf 86.1 / 79
p0 −36.4 ± 0.7372
pull
Entries 80
Mean −1318
Std Dev 1327

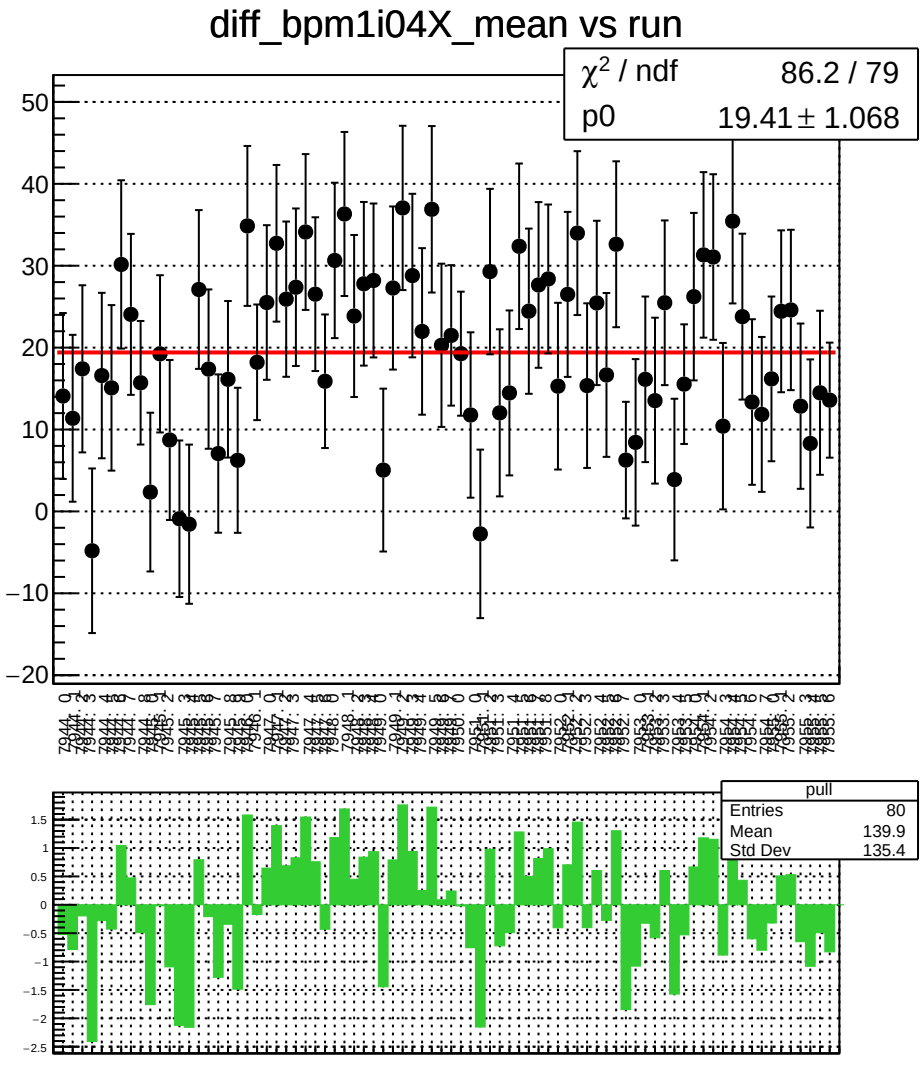

pull1D
Entries 80
Mean 0.001067
Std Dev 1.037

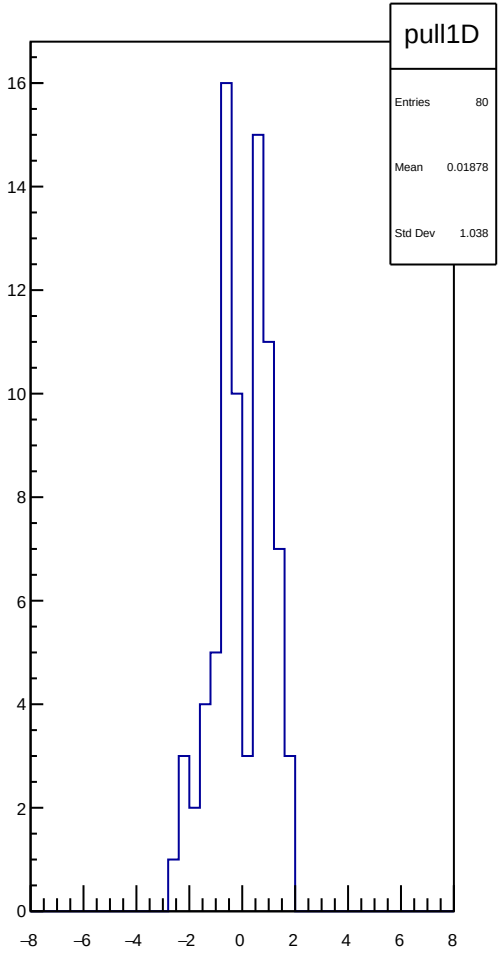

diff_bpm1i02X_rms vs run
χ² / ndf 215.4 / 79
p0 650.6 ± 0.5213
670
660
650
640
630

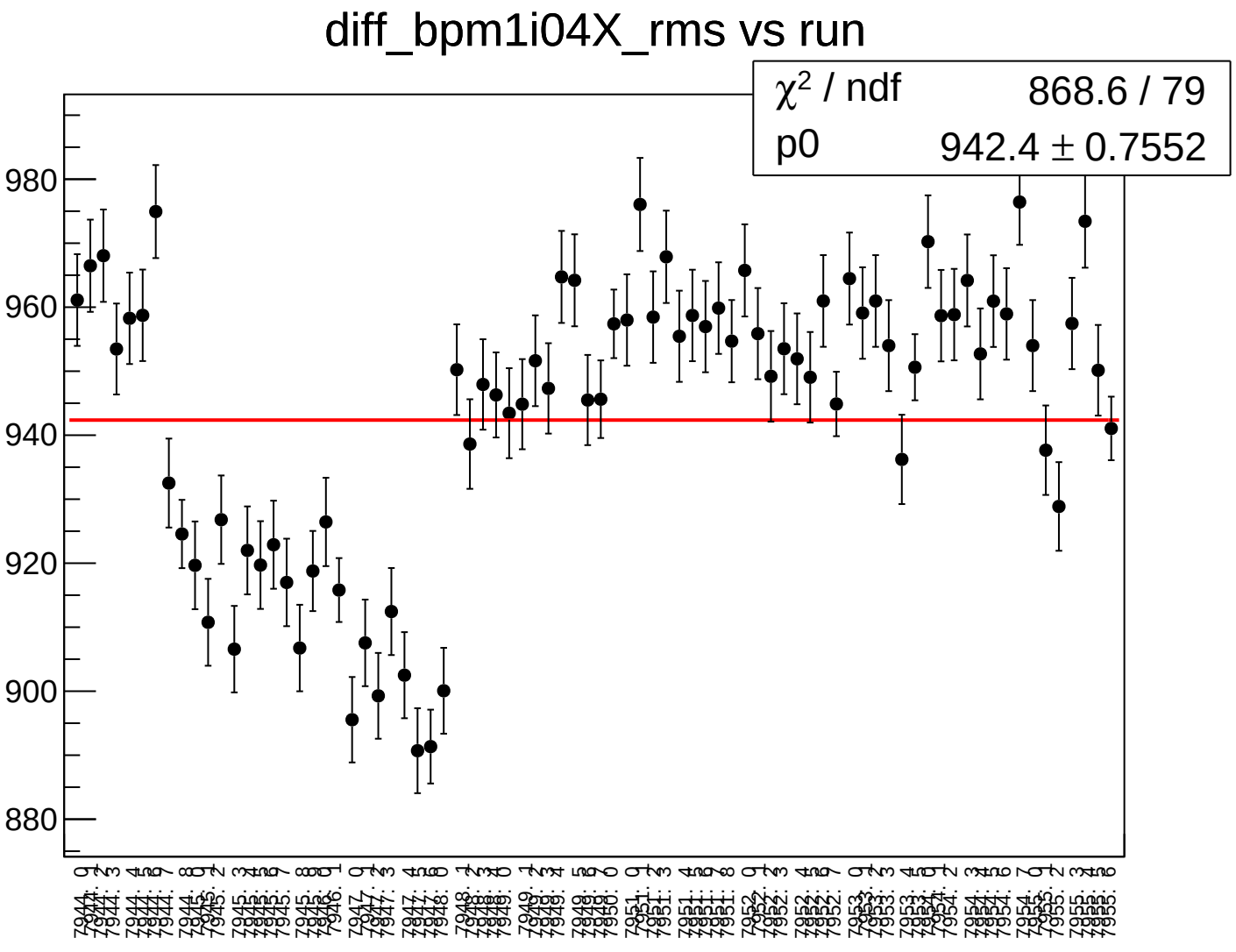

diff_bpm1i02Y_mean vs run
χ² / ndf 150.9 / 79
p0 9.474 ± 0.5605
pull
Entries 80
Mean 232.8
Std Dev 198.9

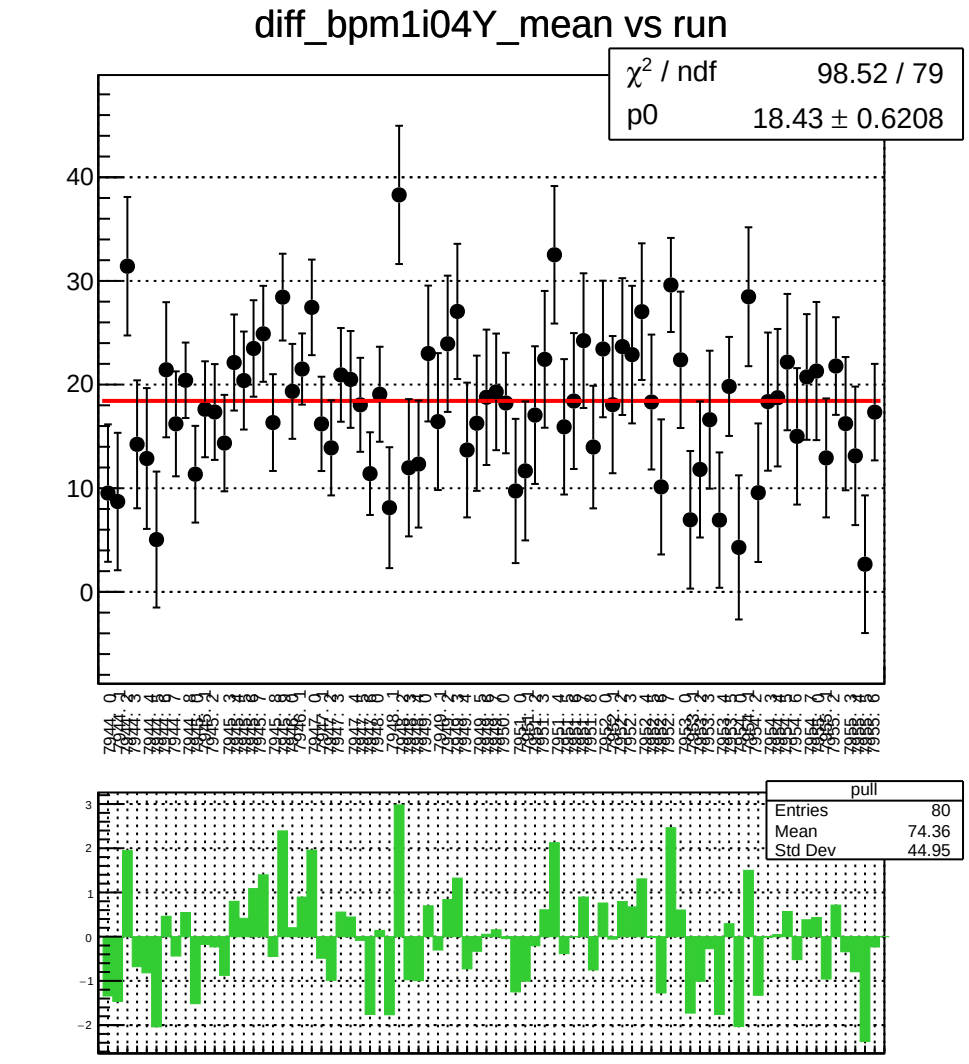

pull1D
Entries 80
Mean 0.03596
Std Dev 1.373

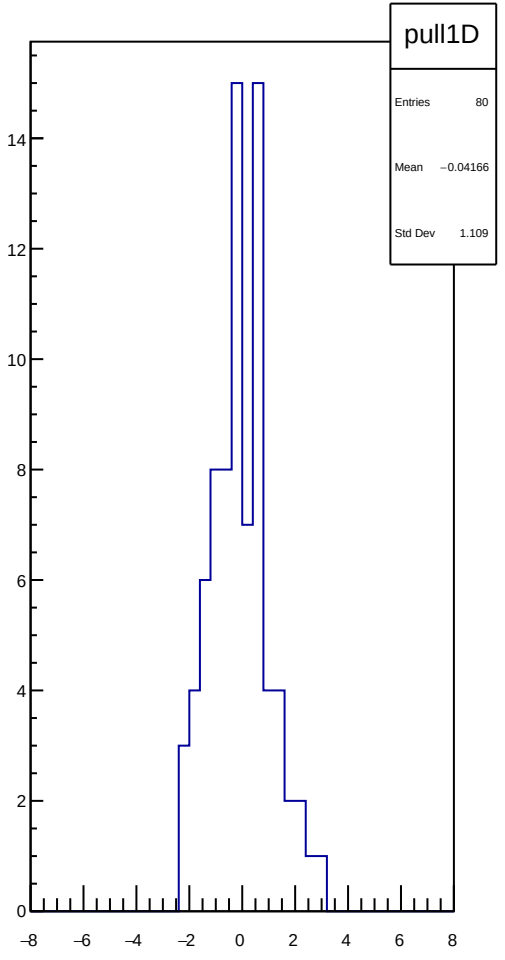

diff_bpm1i02Y_rms vs run
χ² / ndf 268.2 / 79
p0 494.6 ± 0.3963
515
510
505
500
495
490
485
480
475

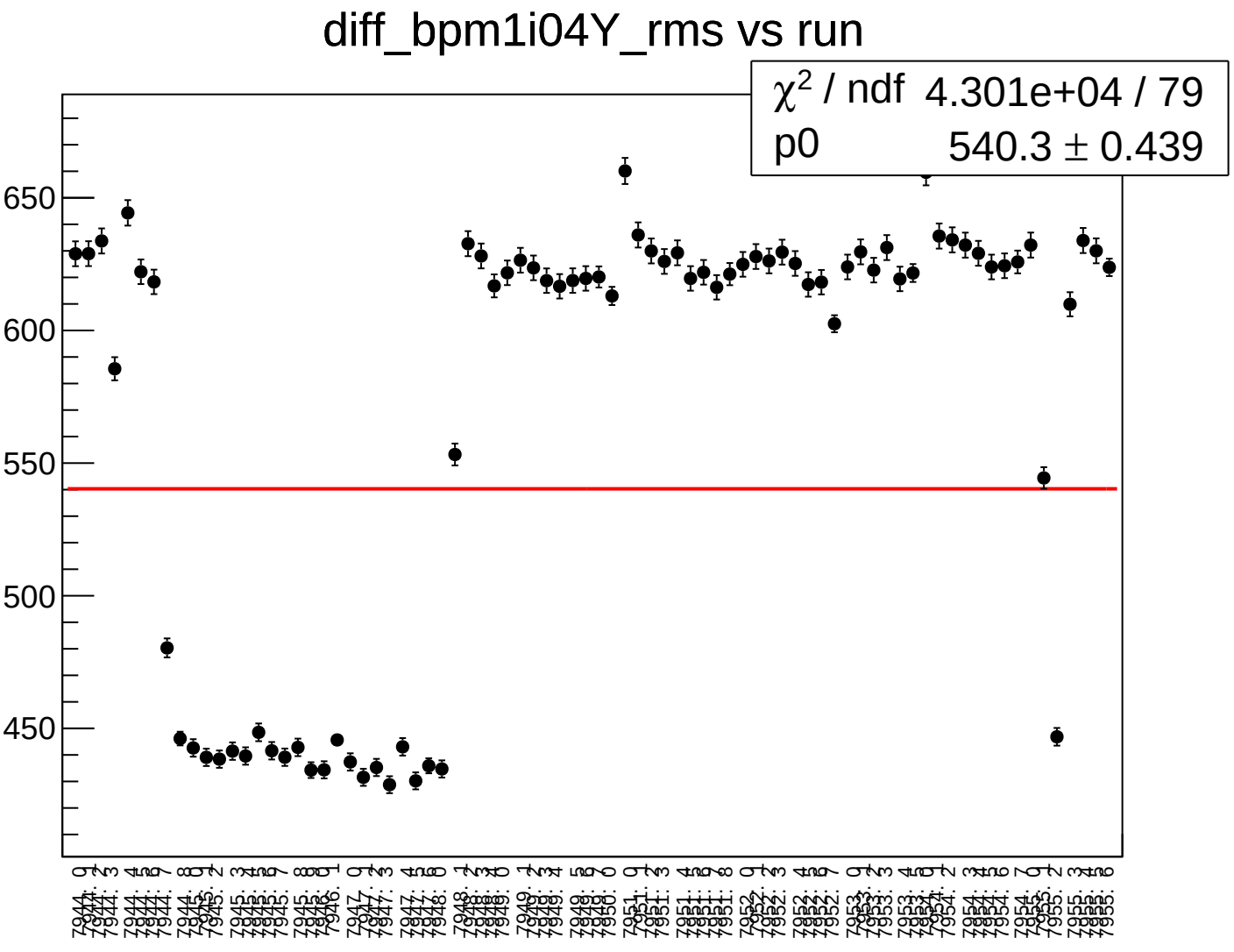

diff_bpm1i04X_mean vs run
χ² / ndf 86.2 / 79
p0 19.41 ± 1.068
pull
Entries 80
Mean 139.9
Std Dev 135.4

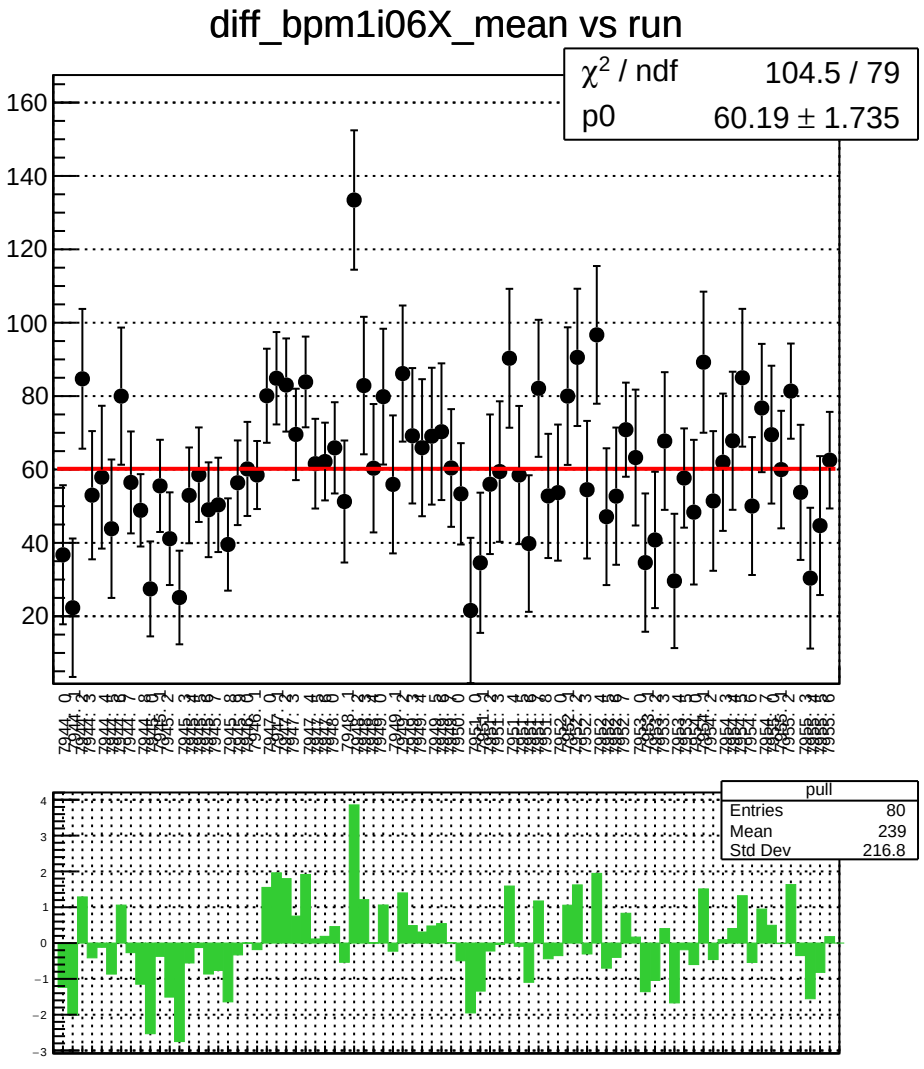

pull1D
Entries 80
Mean 0.01878
Std Dev 1.038

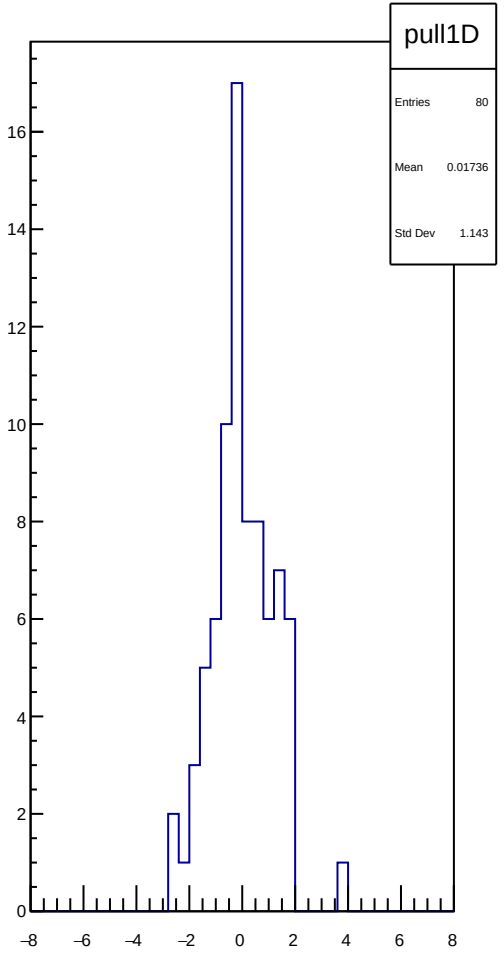

diff_bpm1i04X_rms vs run
χ² / ndf 868.6 / 79
p0 942.4 ± 0.7552
980
960
940
920
900
880

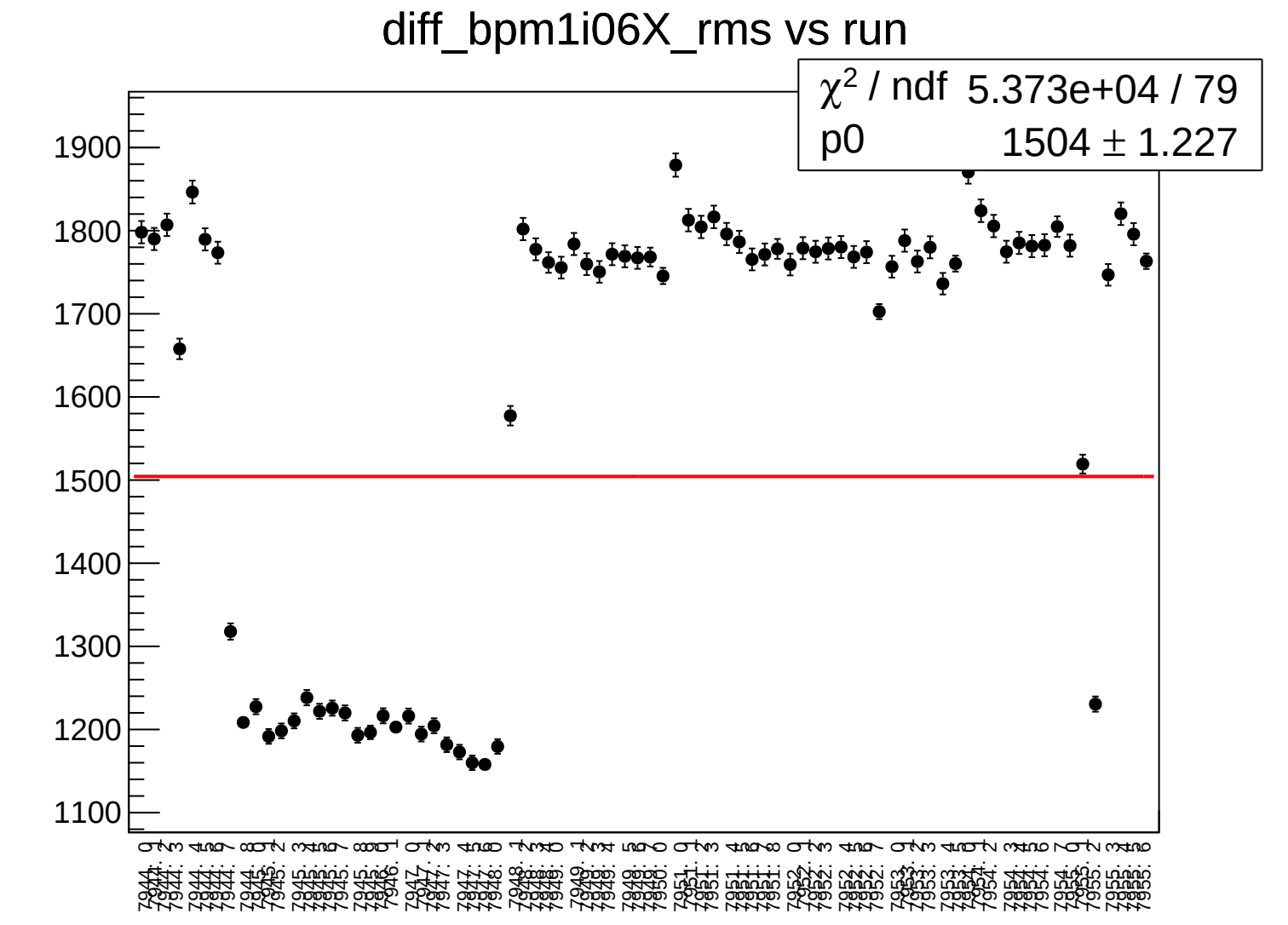

diff_bpm1i04Y_mean vs run
χ² / ndf 98.52 / 79
p0 18.43 ± 0.6208
pull
Entries 80
Mean 74.36
Std Dev 44.95

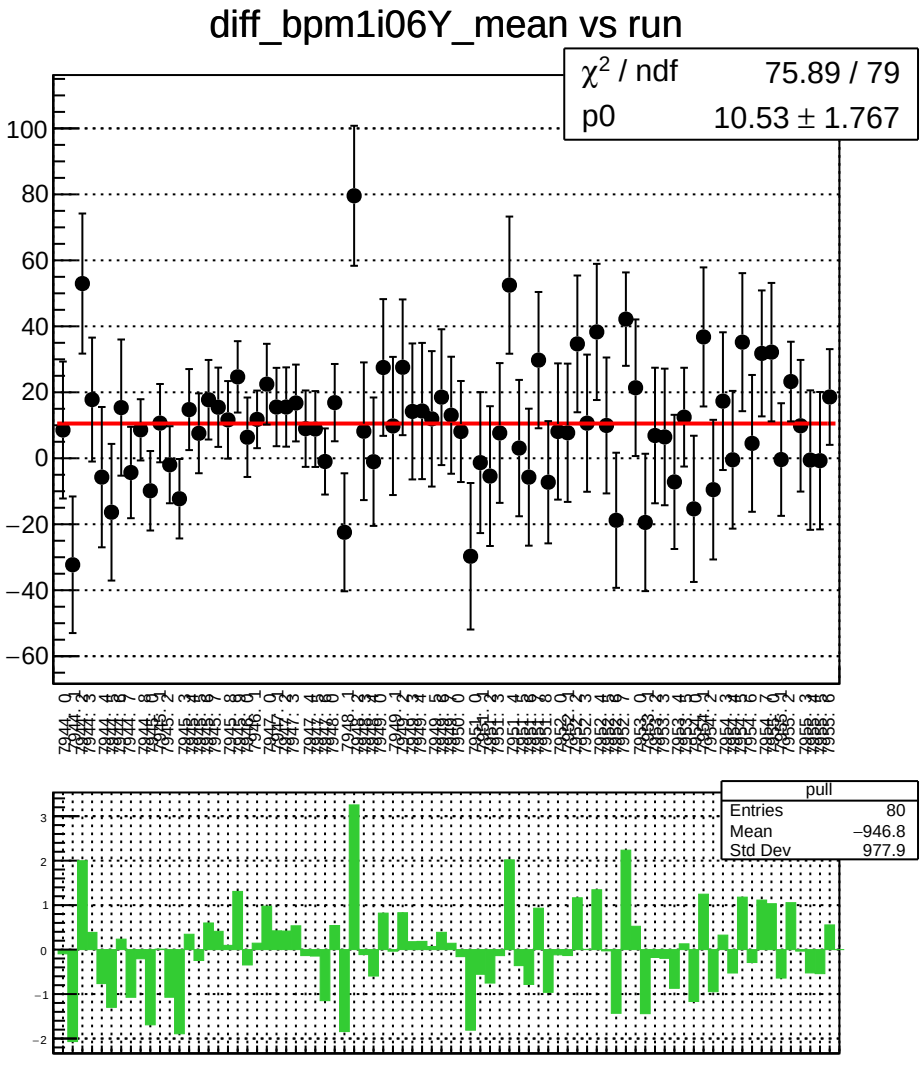

pull1D
Entries 80
Mean −0.04166
Std Dev 1.109

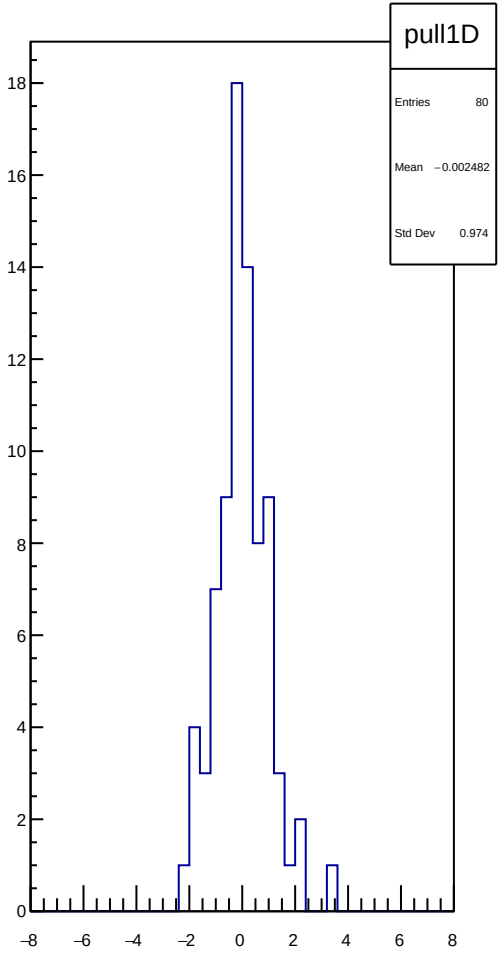

diff_bpm1i04Y_rms vs run
χ² / ndf 4.301e+04 / 79
p0 540.3 ± 0.439
650
600
550
500
450

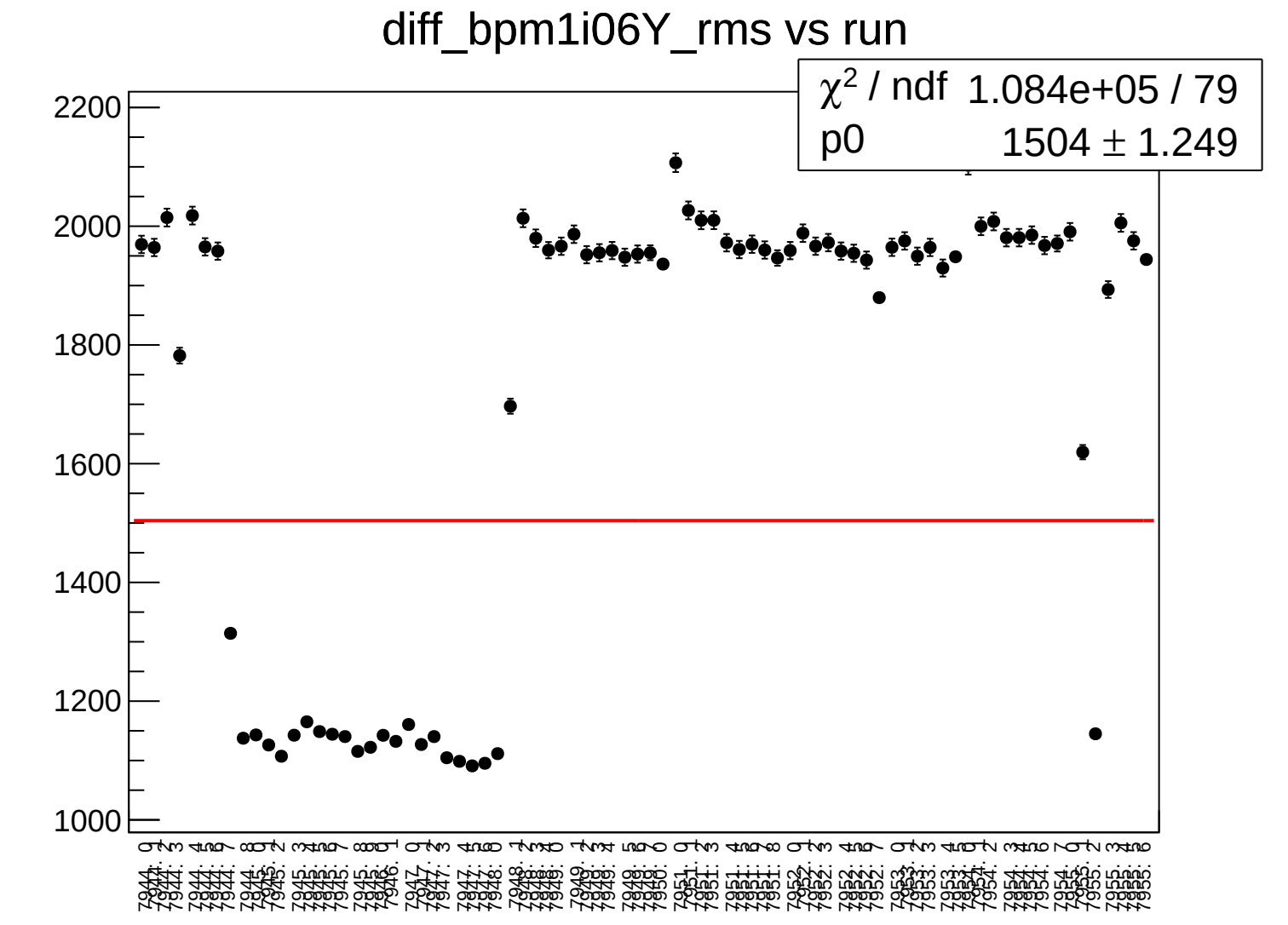

diff_bpm1i06X_mean vs run
χ^2 / ndf 104.5 / 79
p0 60.19 ± 1.735
pull
Entries 80
Mean 239
Std Dev 216.8

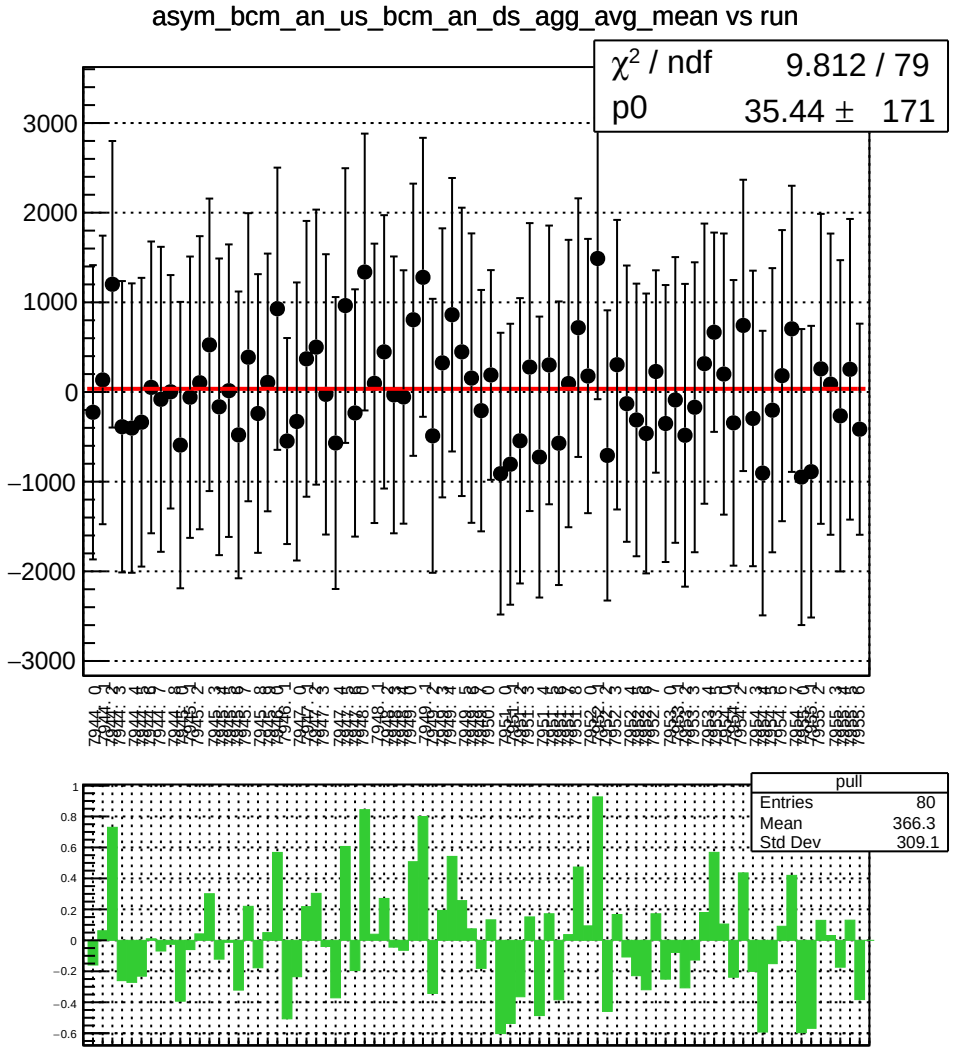

pull1D
Entries 80
Mean 0.01736
Std Dev 1.143

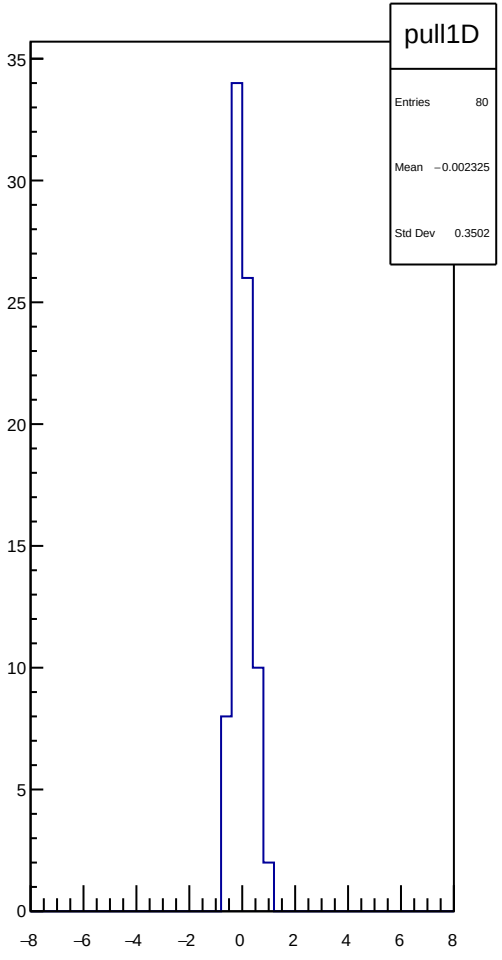

diff_bpm1i06X_rms vs run
χ² / ndf 5.373e+04 / 79
p0 1504 ± 1.227
1900
1800
1700
1600
1500
1400
1300
1200
1100

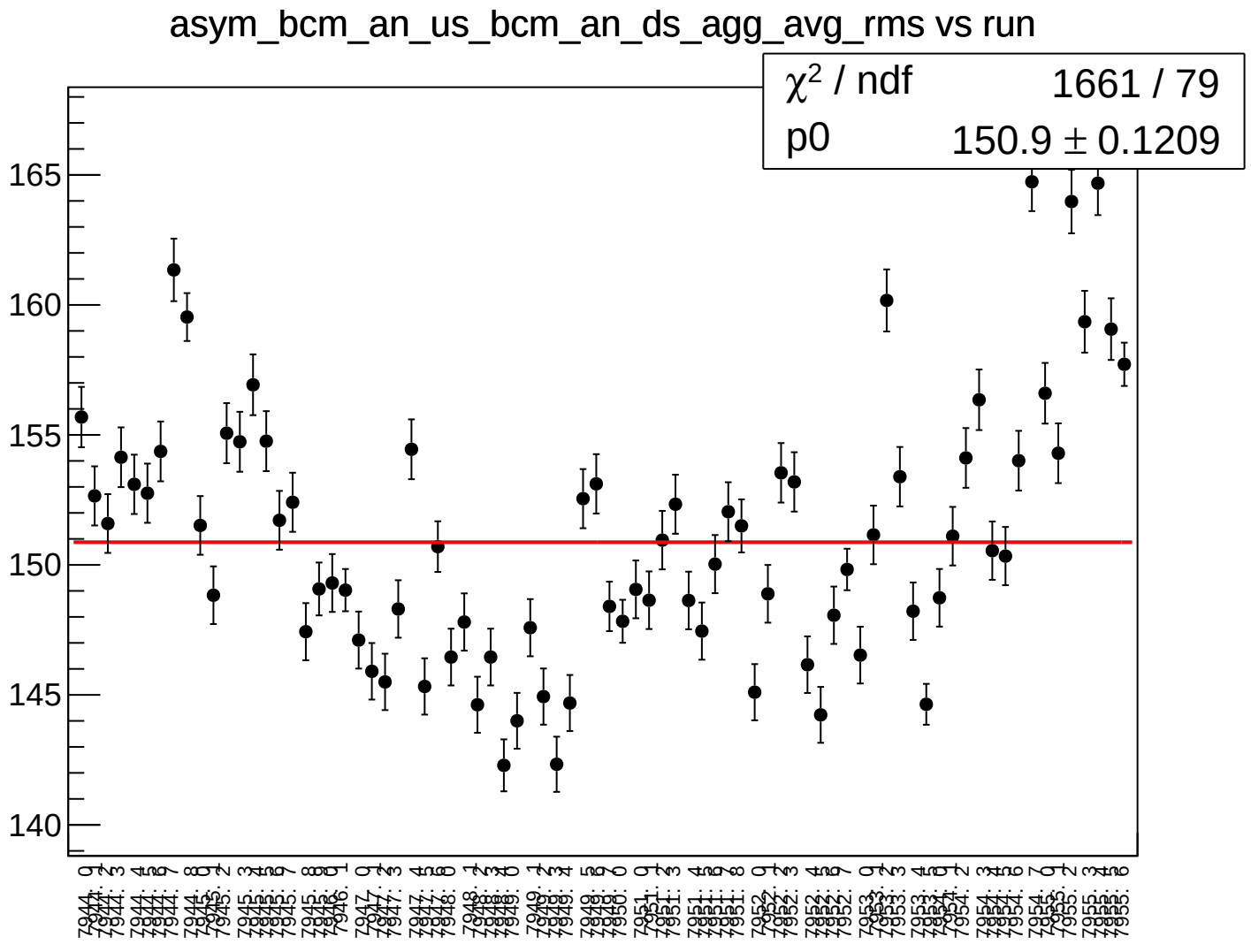

diff_bpm1i06Y_mean vs run
χ^2 / ndf 75.89 / 79
p0 10.53 ± 1.767
pull
Entries 80
Mean −946.8
Std Dev 977.9

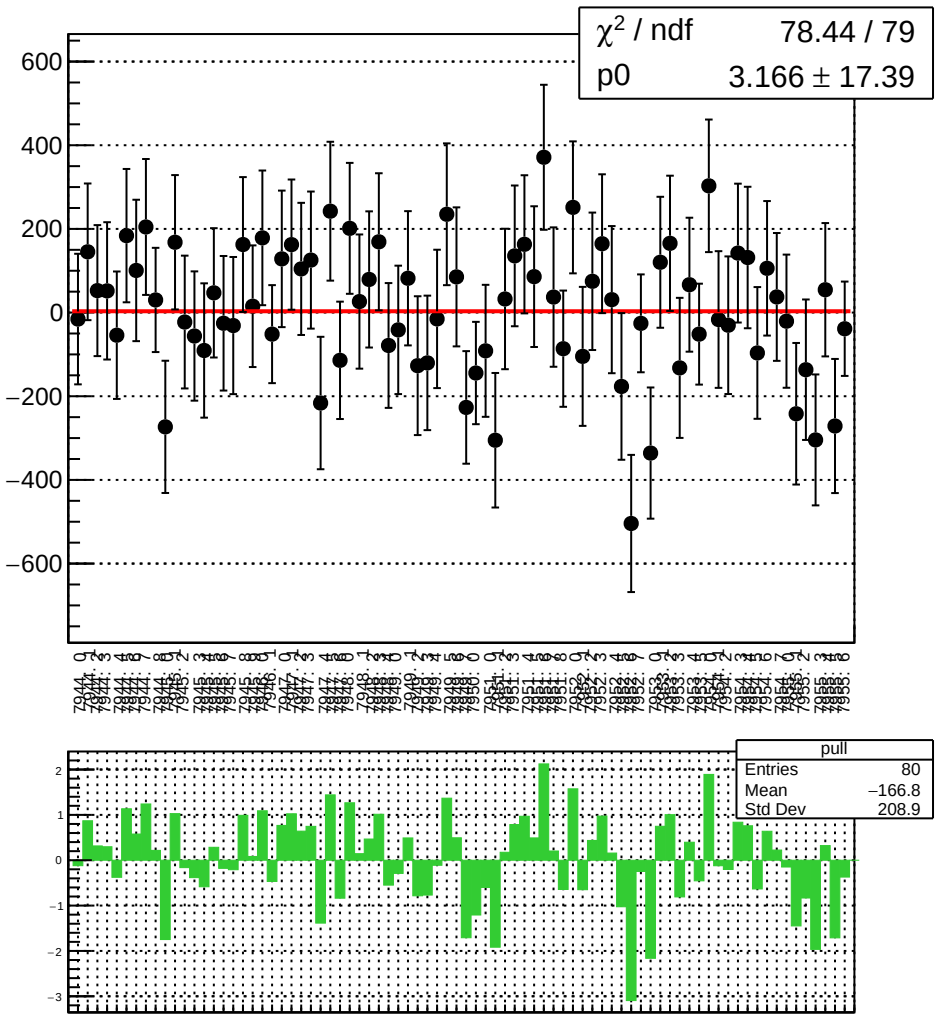

pull1D
Entries 80
Mean −0.002482
Std Dev 0.974

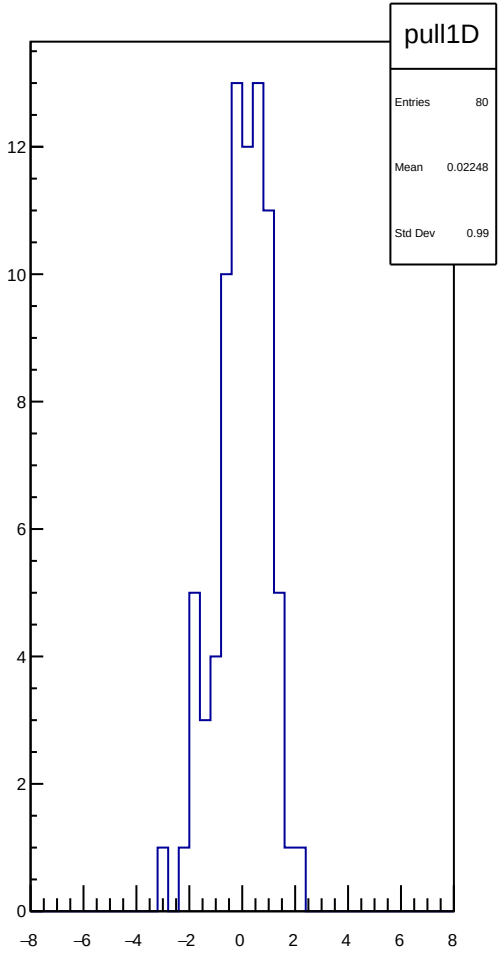

diff_bpm1i06Y_rms vs run
χ² / ndf 1.084e+05 / 79
p0 1504 ± 1.249
2200
2000
1800
1600
1400
1200
1000

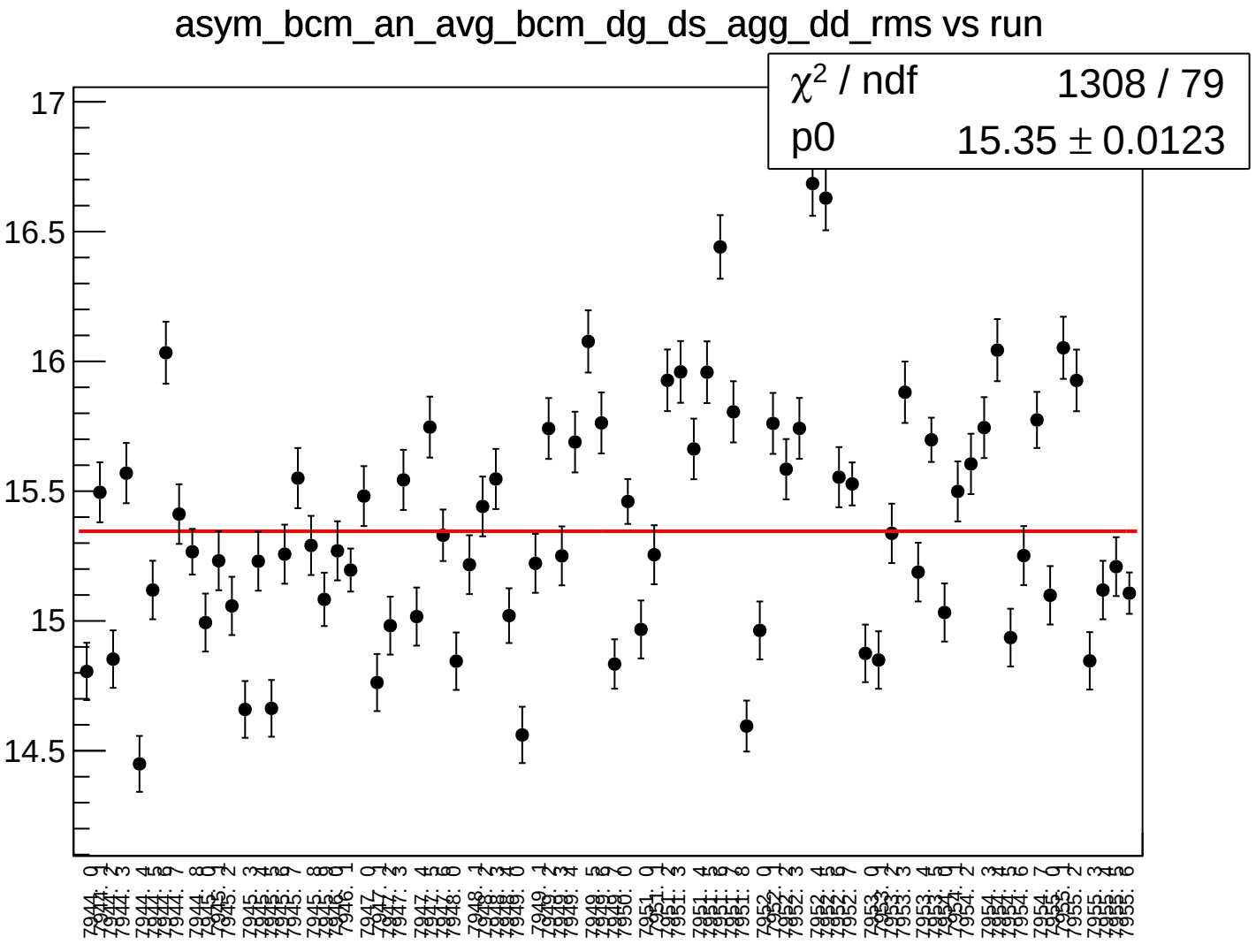

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.812 / 79
p0 35.44 ± 171
pull
Entries 80
Mean 366.3
Std Dev 309.1

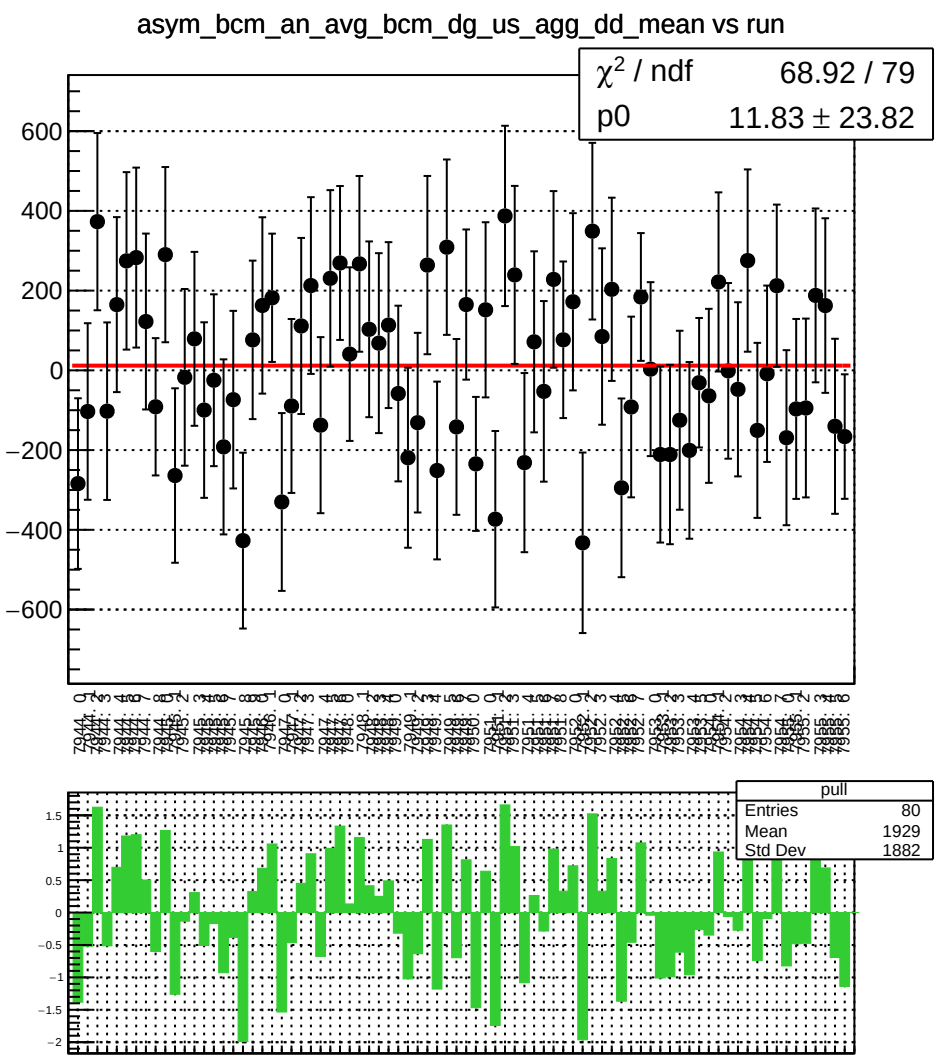

pull1D
Entries 80
Mean −0.002325
Std Dev 0.3502

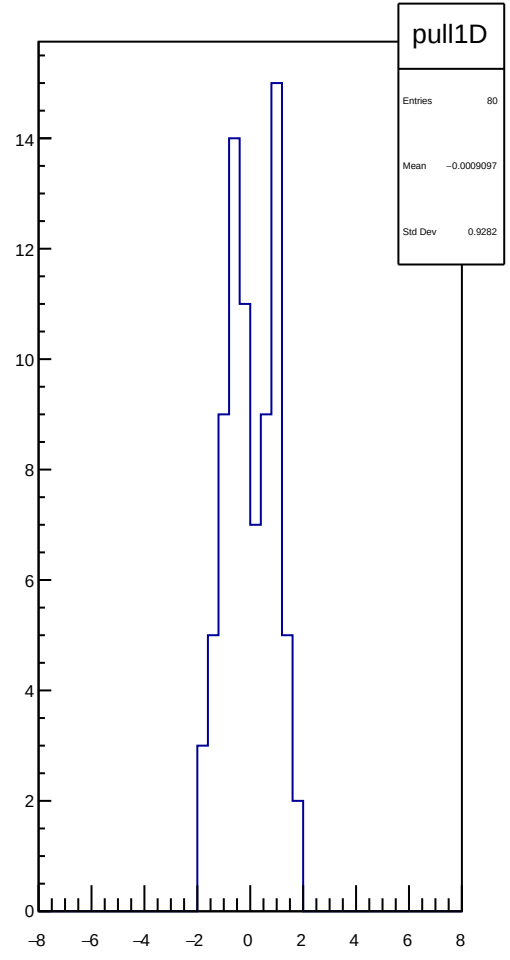

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1661 / 79
p0 150.9 ± 0.1209
165
160
155
150
145
140

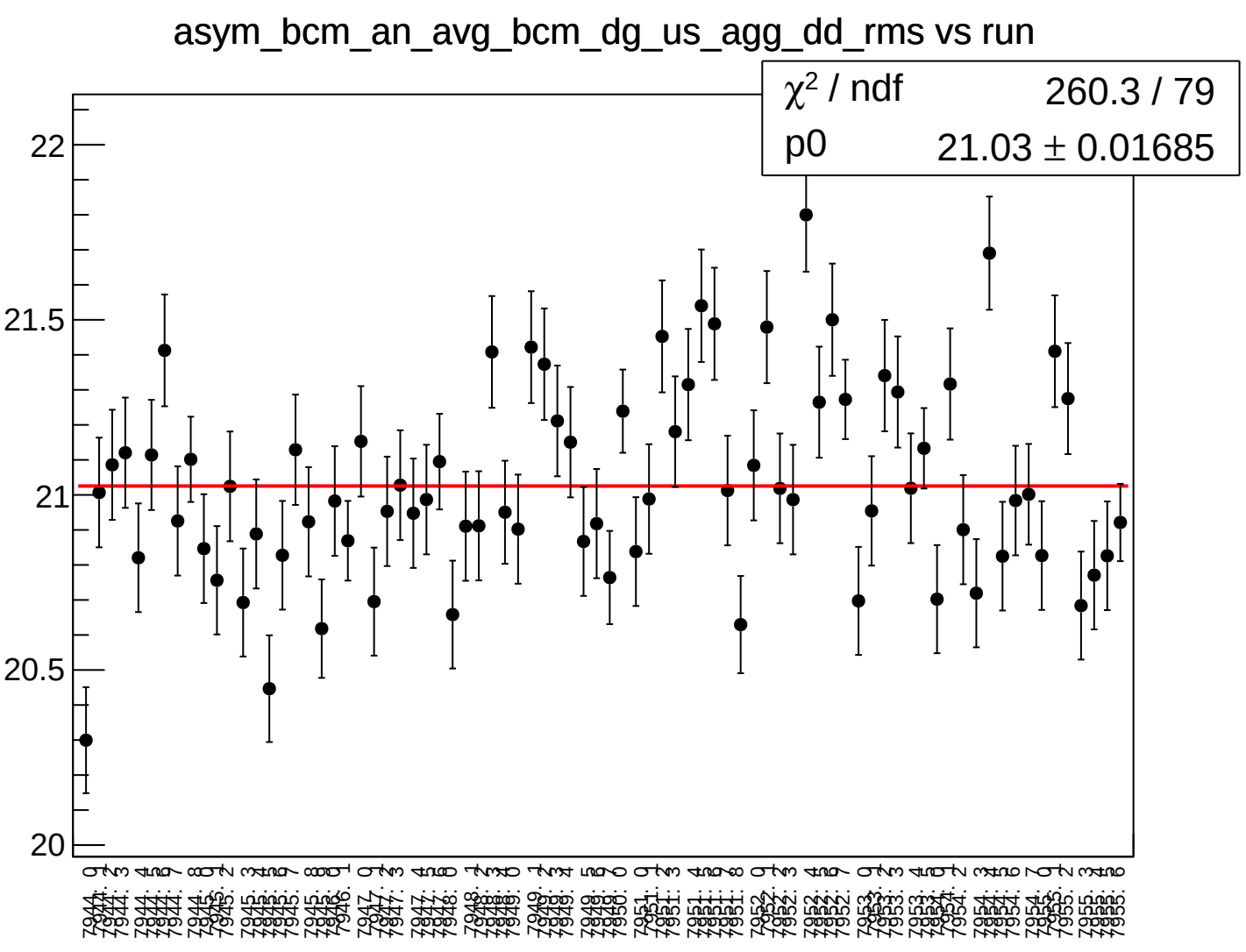

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.44 / 79
p0 3.166 ± 17.39
pull
Entries 80
Mean −166.8
Std Dev 208.9

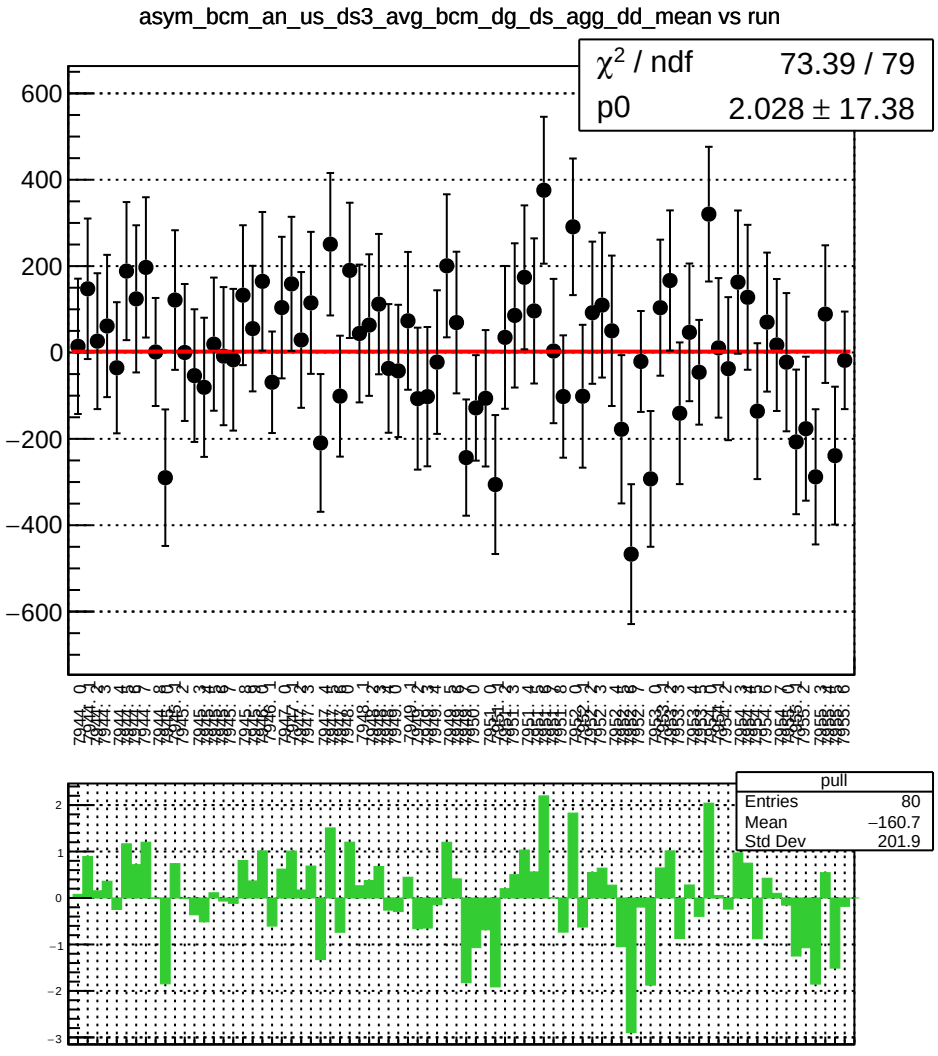

pull1D
Entries 80
Mean 0.02248
Std Dev 0.99

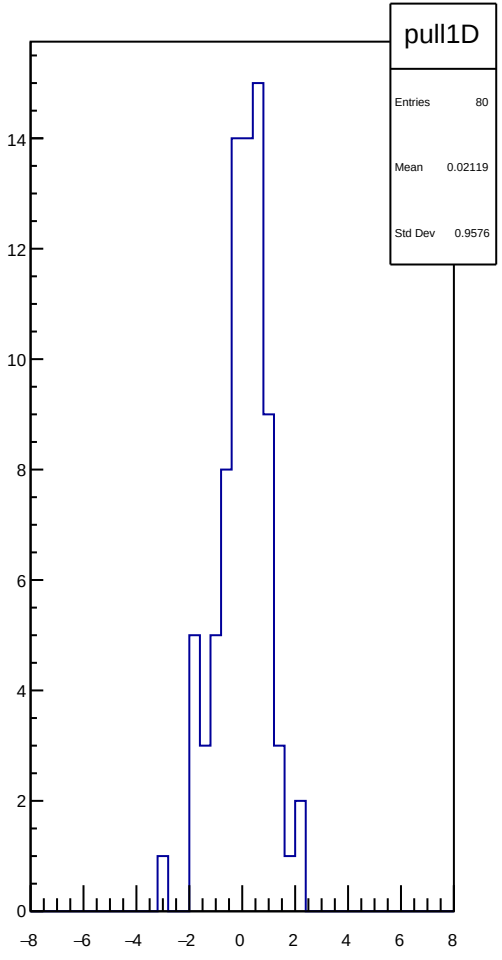

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1308 / 79
p0 15.35 ± 0.0123
17
16.5
16
15.5
15
14.5

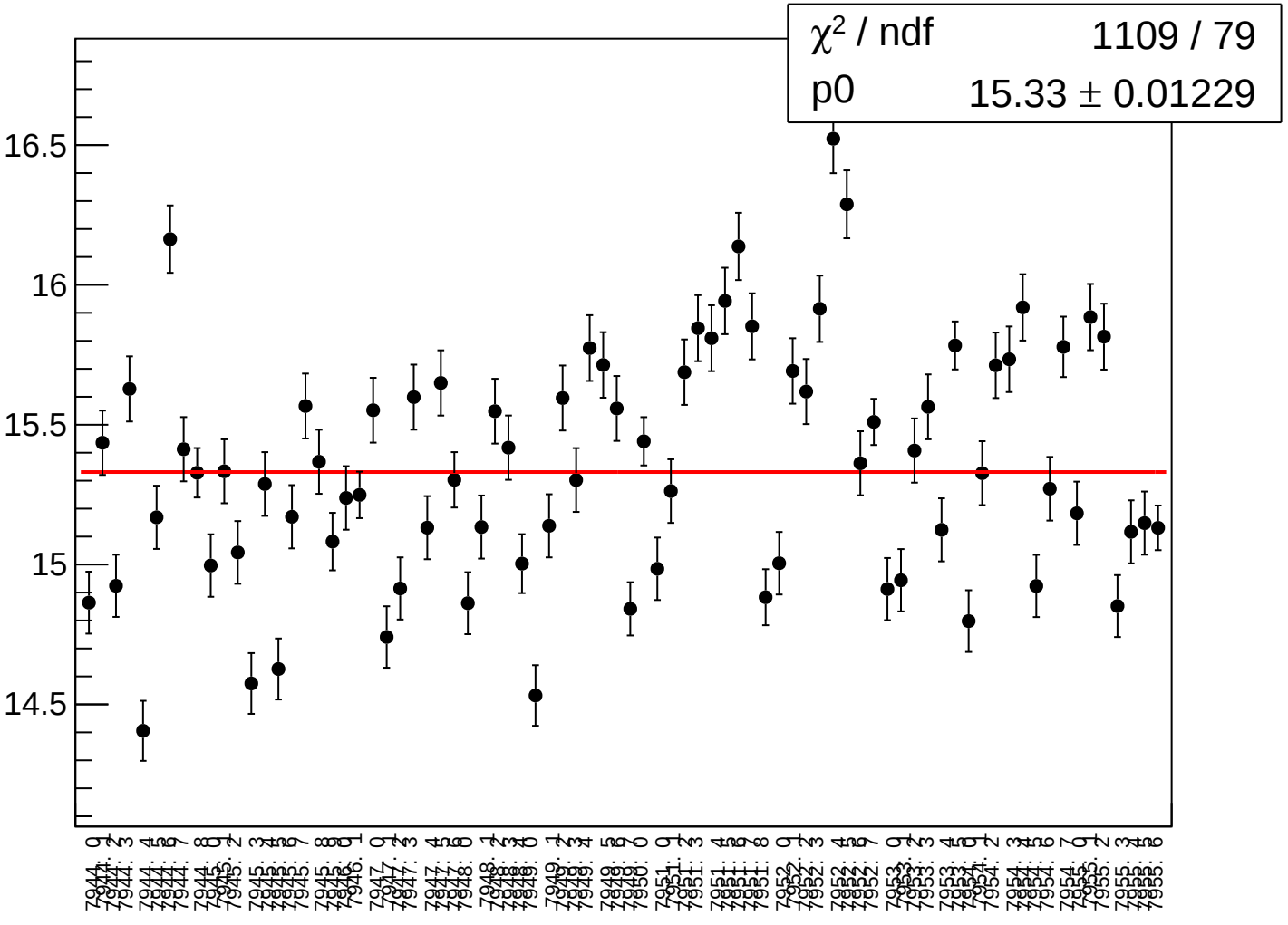

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 68.92 / 79
p0 11.83 ± 23.82
pull
Entries 80
Mean 1929
Std Dev 1882

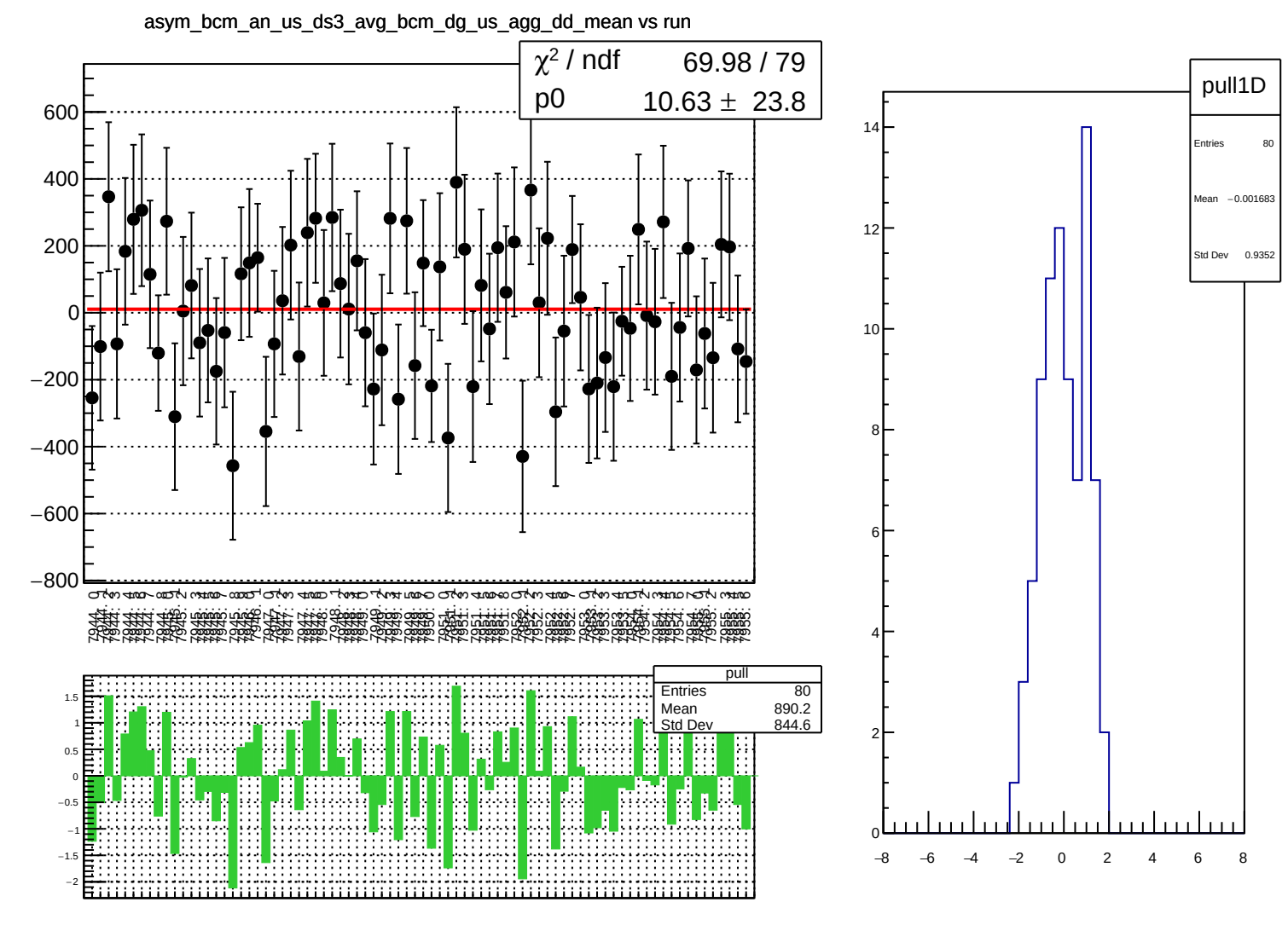

pull1D
Entries 80
Mean −0.0009097
Std Dev 0.9282

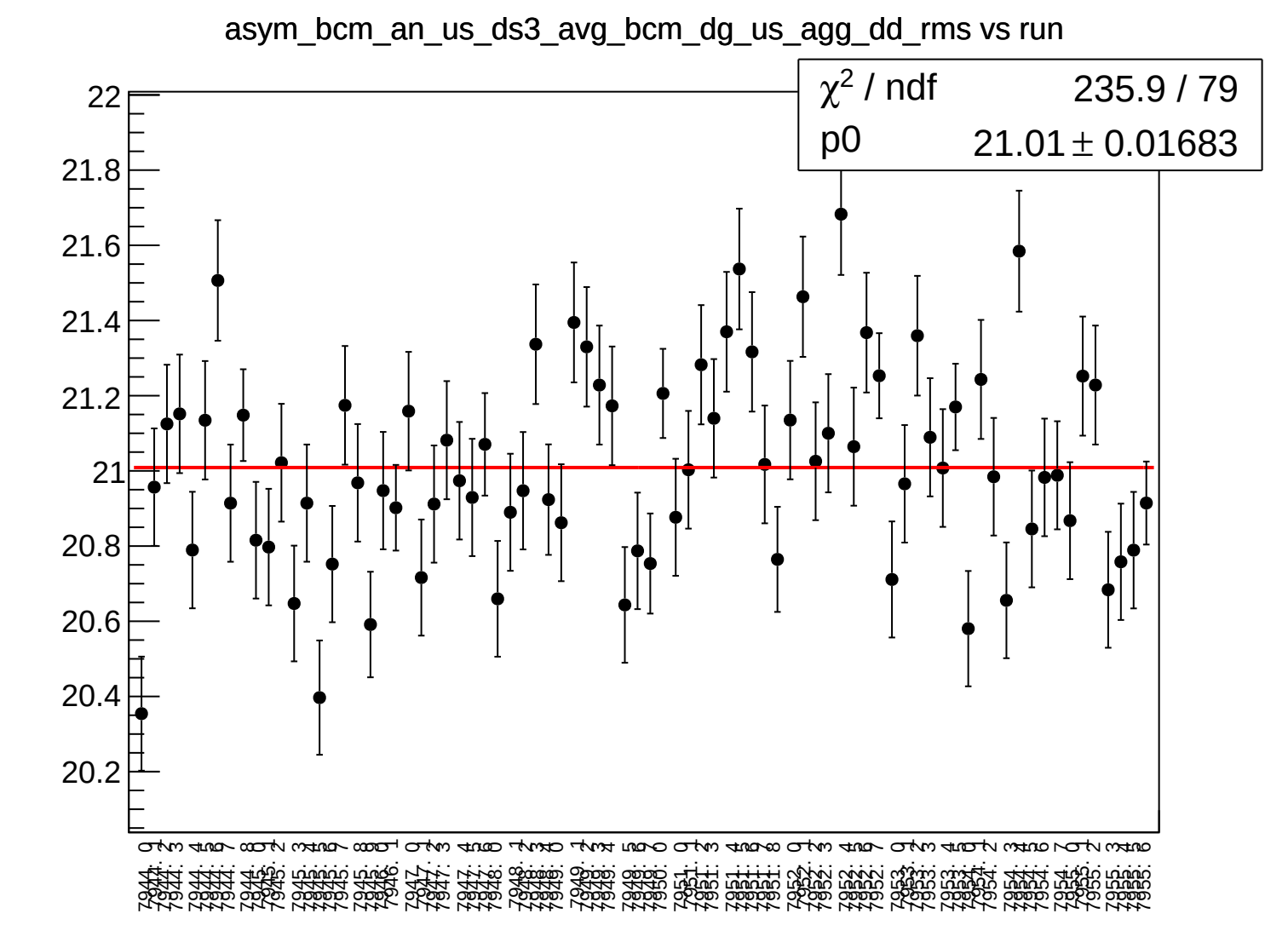

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 260.3 / 79
p0 21.03 ± 0.01685
22
21.5
21
20.5
20

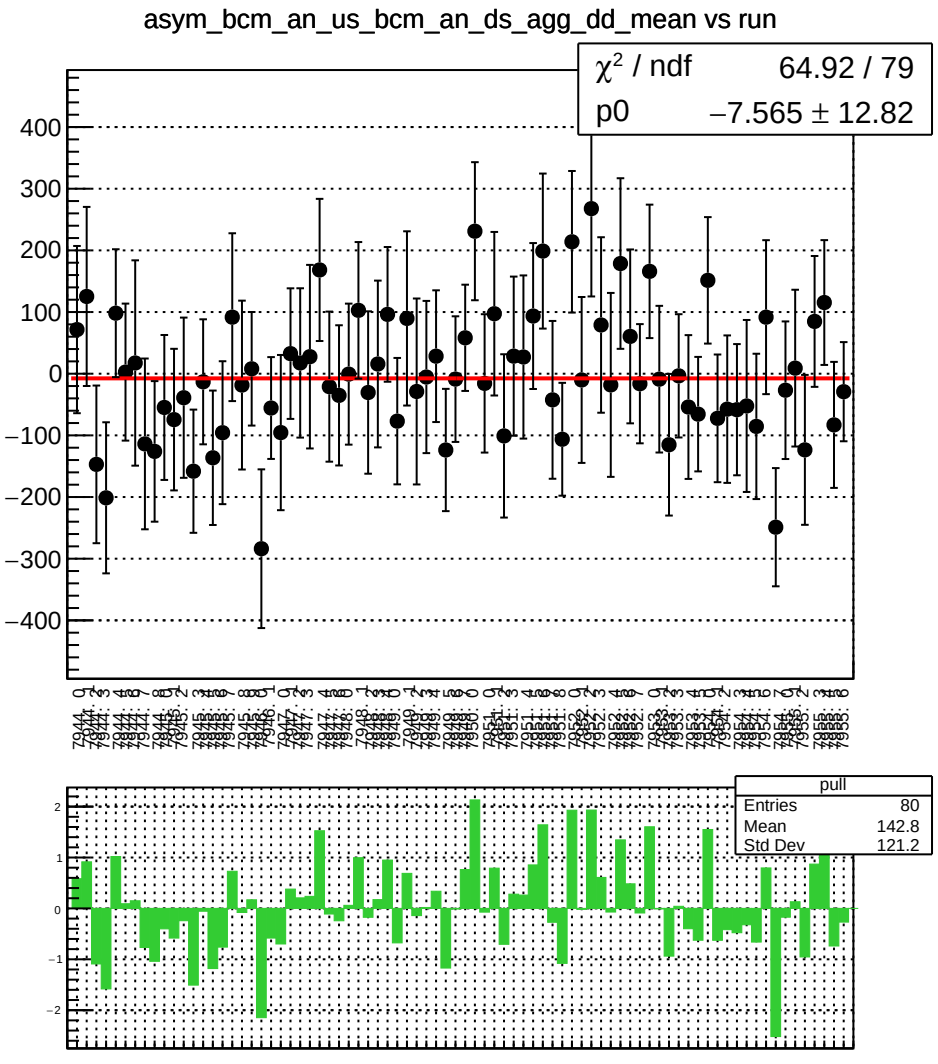

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.39 / 79
p0 2.028 ± 17.38
pull
Entries 80
Mean −160.7
Std Dev 201.9

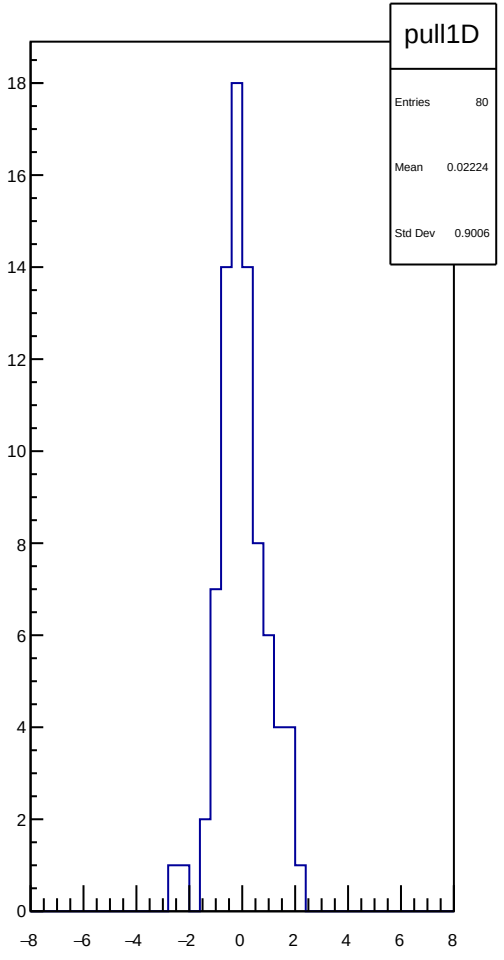

pull1D
Entries 80
Mean 0.02119
Std Dev 0.9576

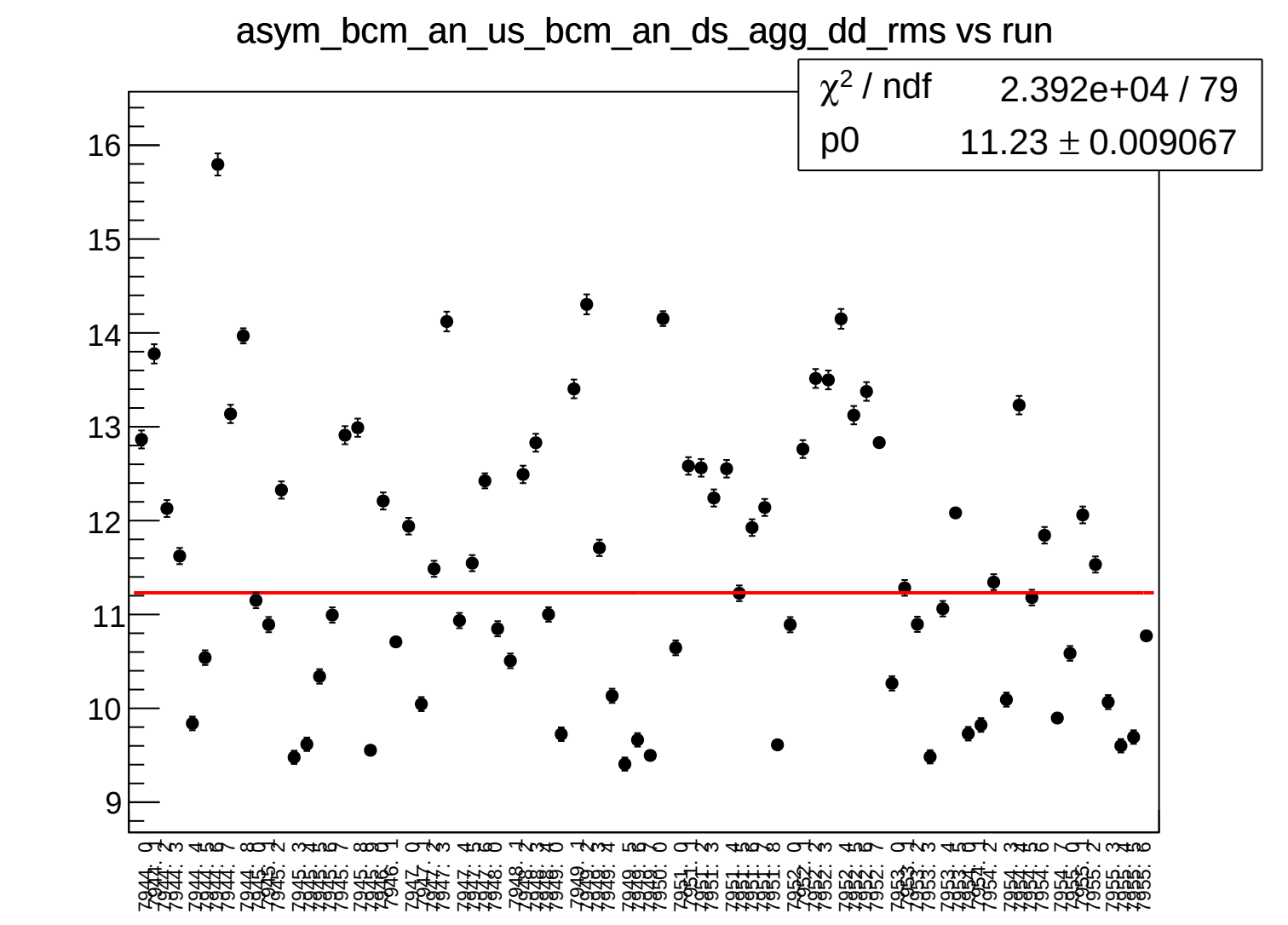

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1109 / 79
p0 15.33 ± 0.01229
16.5
16
15.5
15
14.5

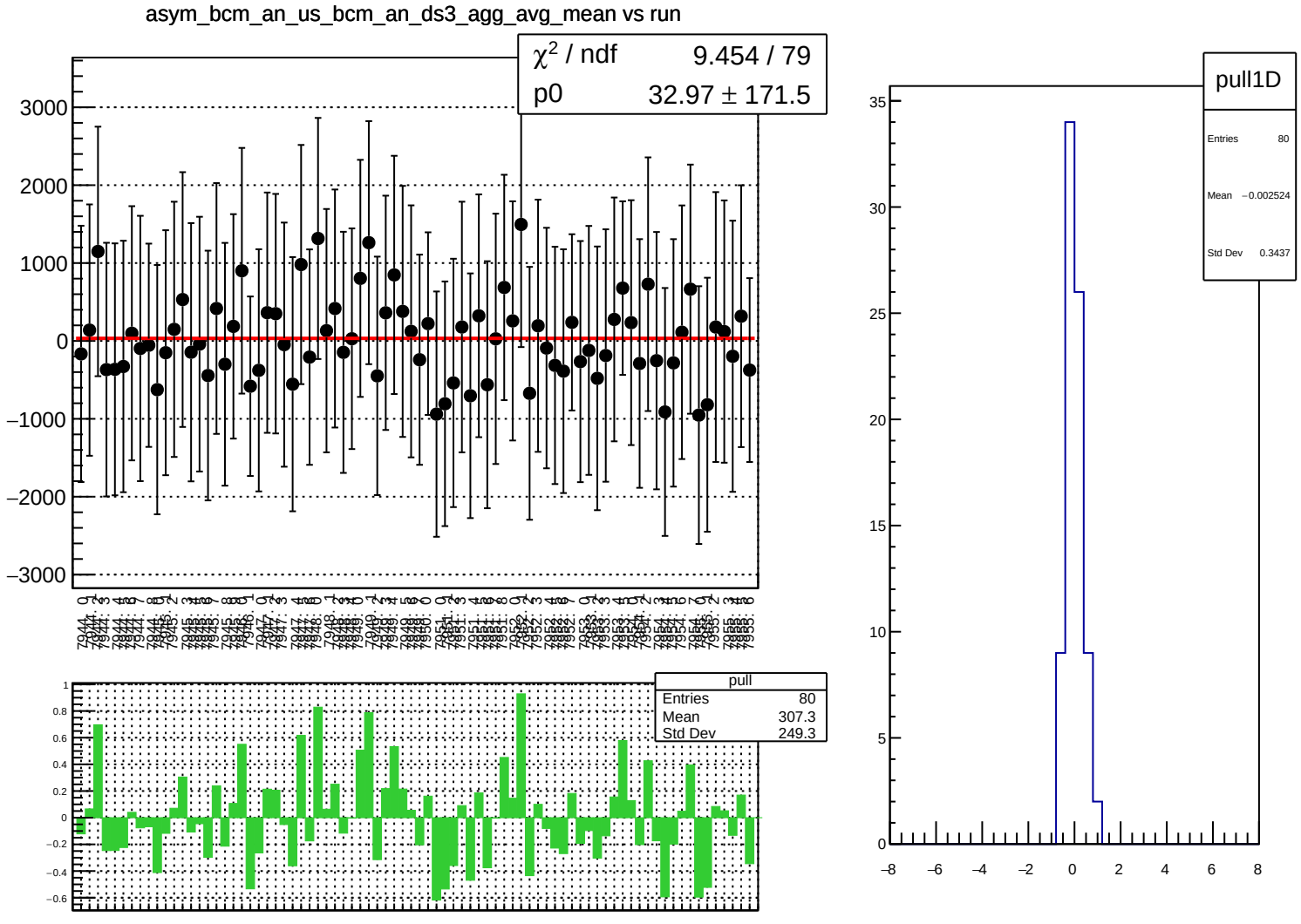

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 69.98 / 79
p0 10.63 ± 23.8
pull
Entries 80
Mean 890.2
Std Dev 844.6
pull1D
Entries 80
Mean −0.001683
Std Dev 0.9352

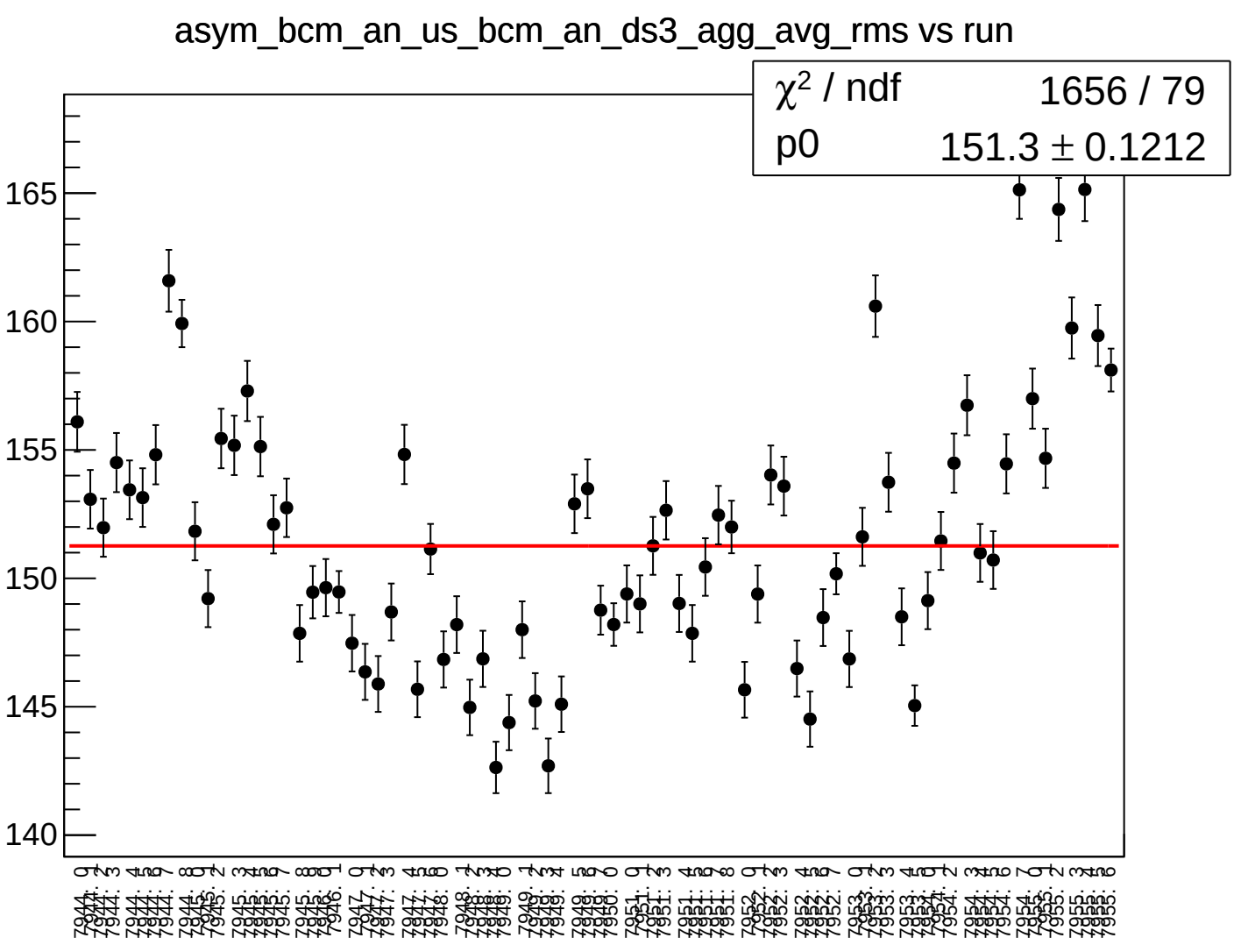

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 235.9 / 79
p0 21.01 ± 0.01683
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4
20.2

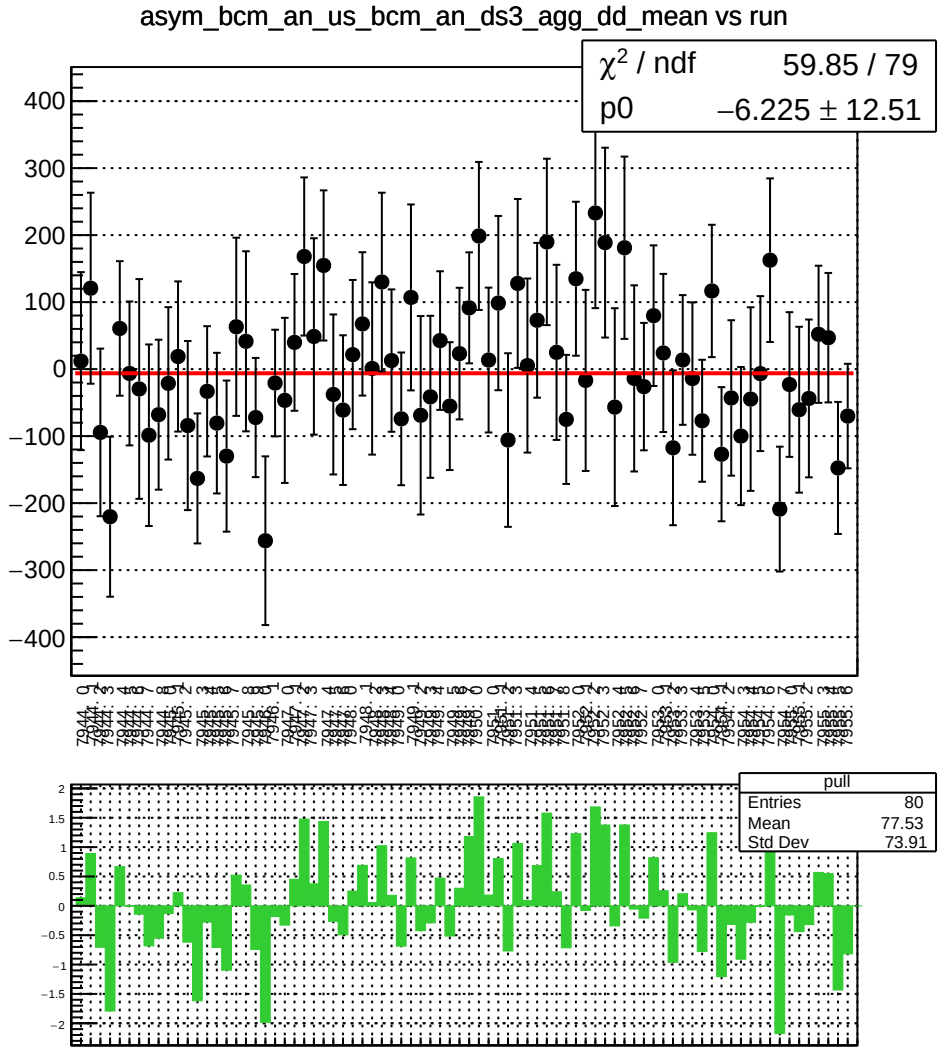

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.92 / 79
p0 −7.565 ± 12.82
pull
Entries 80
Mean 142.8
Std Dev 121.2

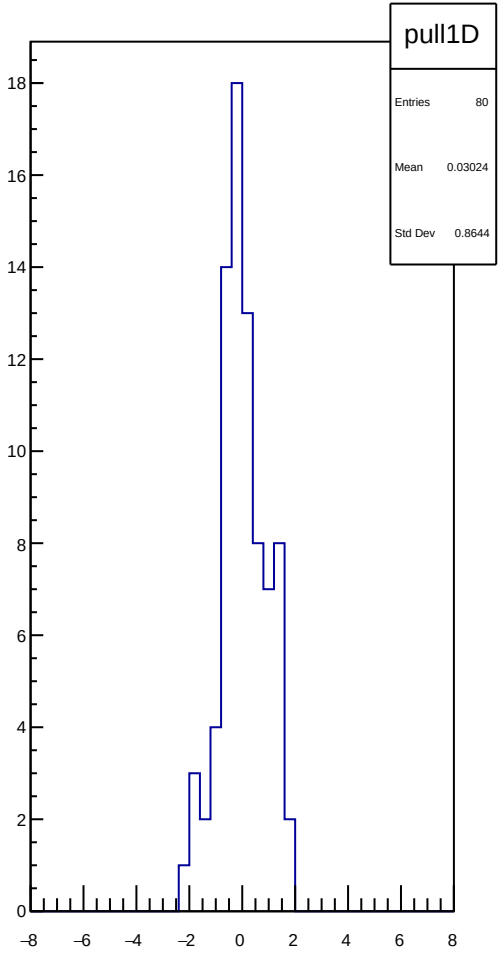

pull1D
Entries 80
Mean 0.02224
Std Dev 0.9006

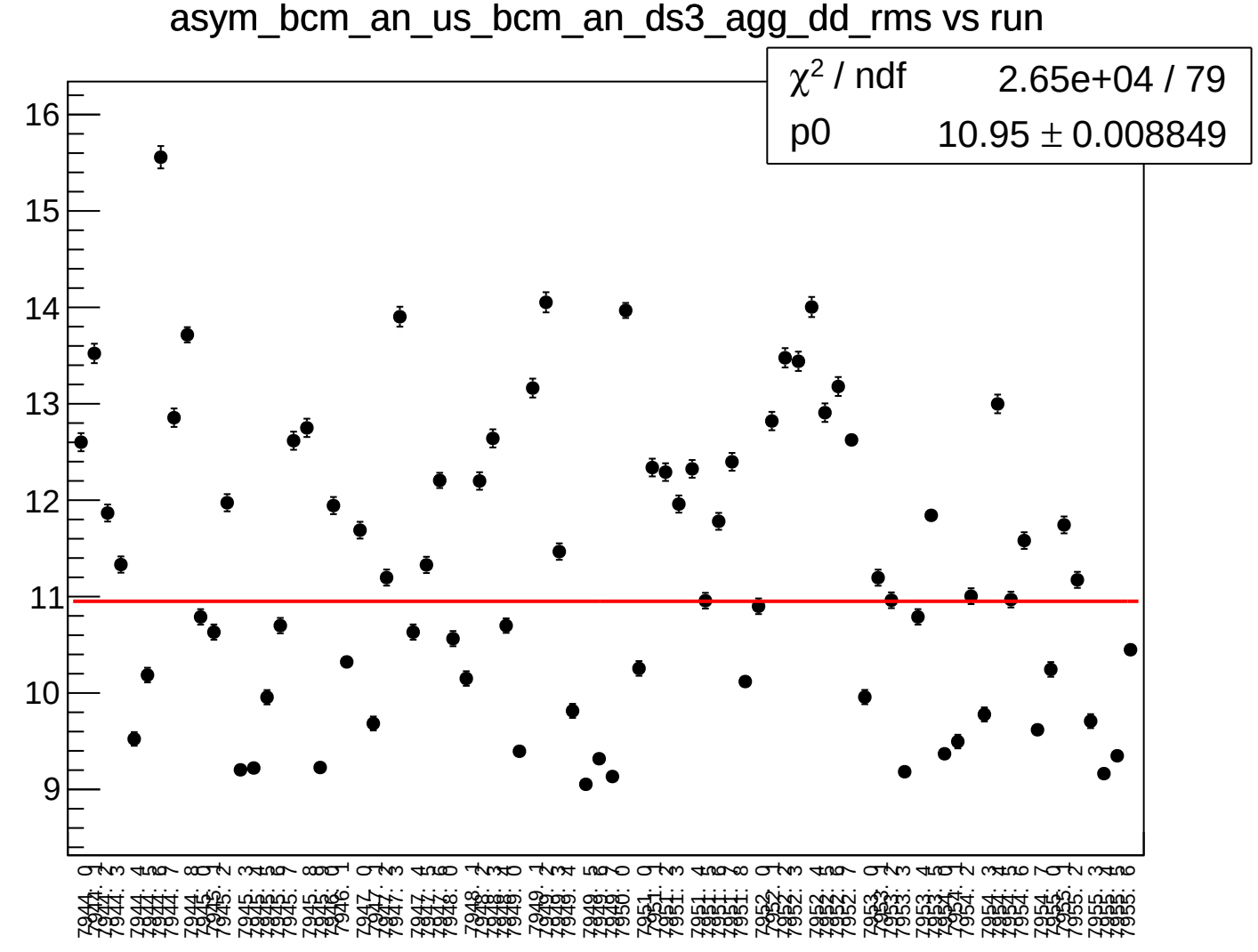

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.392e+04 / 79
p0 11.23 ± 0.009067
16
15
14
13
12
11
10
9

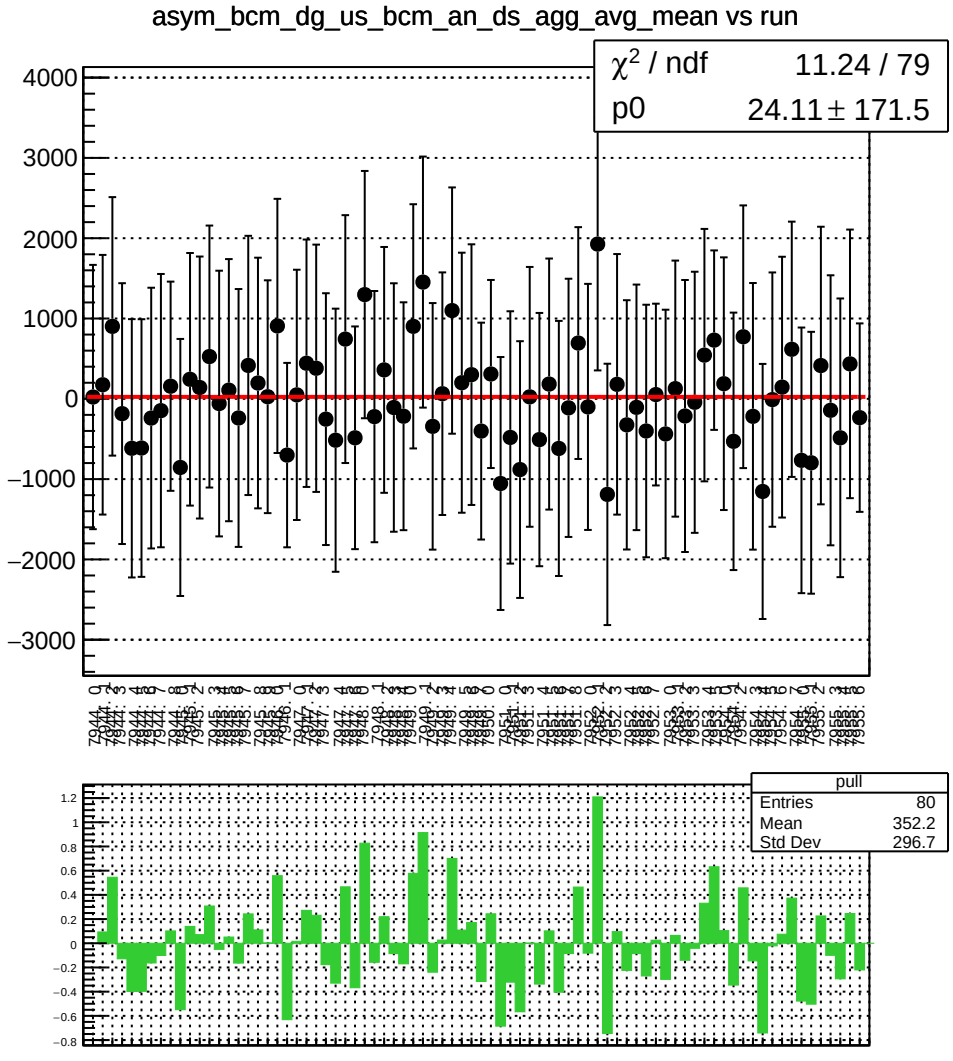

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.454 / 79
p0 32.97 ± 171.5
pull
Entries 80
Mean 307.3
Std Dev 249.3
pull1D
Entries 80
Mean −0.002524
Std Dev 0.3437

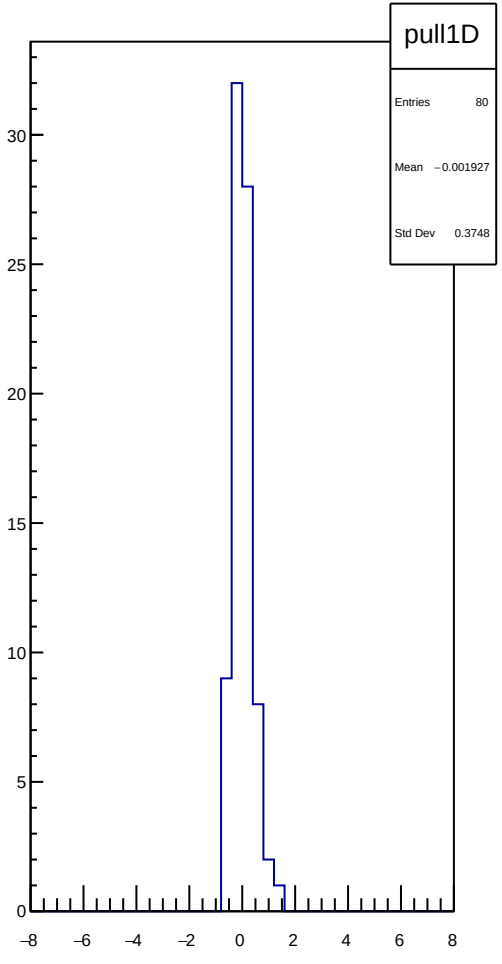

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1656 / 79
p0 151.3 ± 0.1212
165
160
155
150
145
140

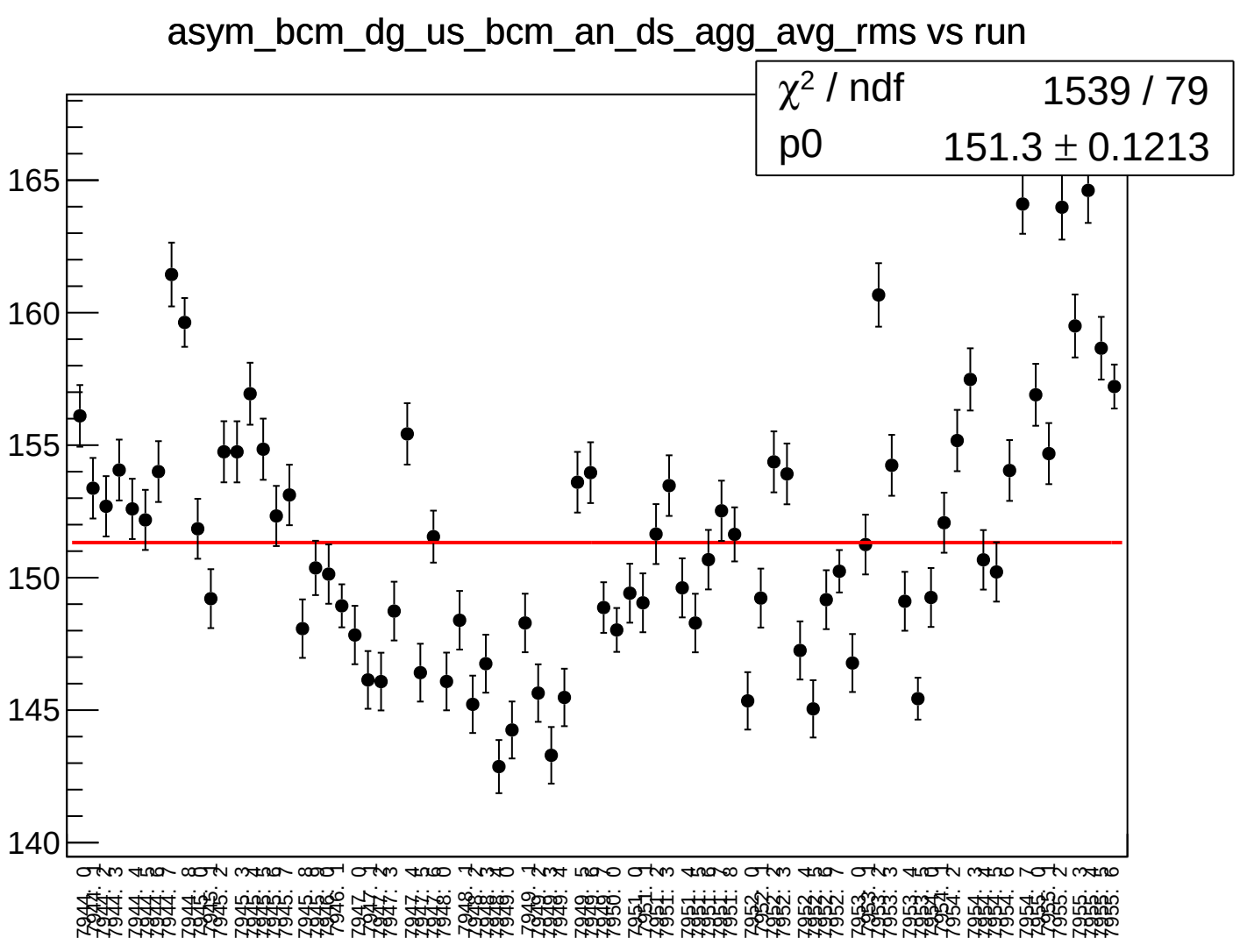

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 59.85 / 79
p0 −6.225 ± 12.51
pull
Entries 80
Mean 77.53
Std Dev 73.91

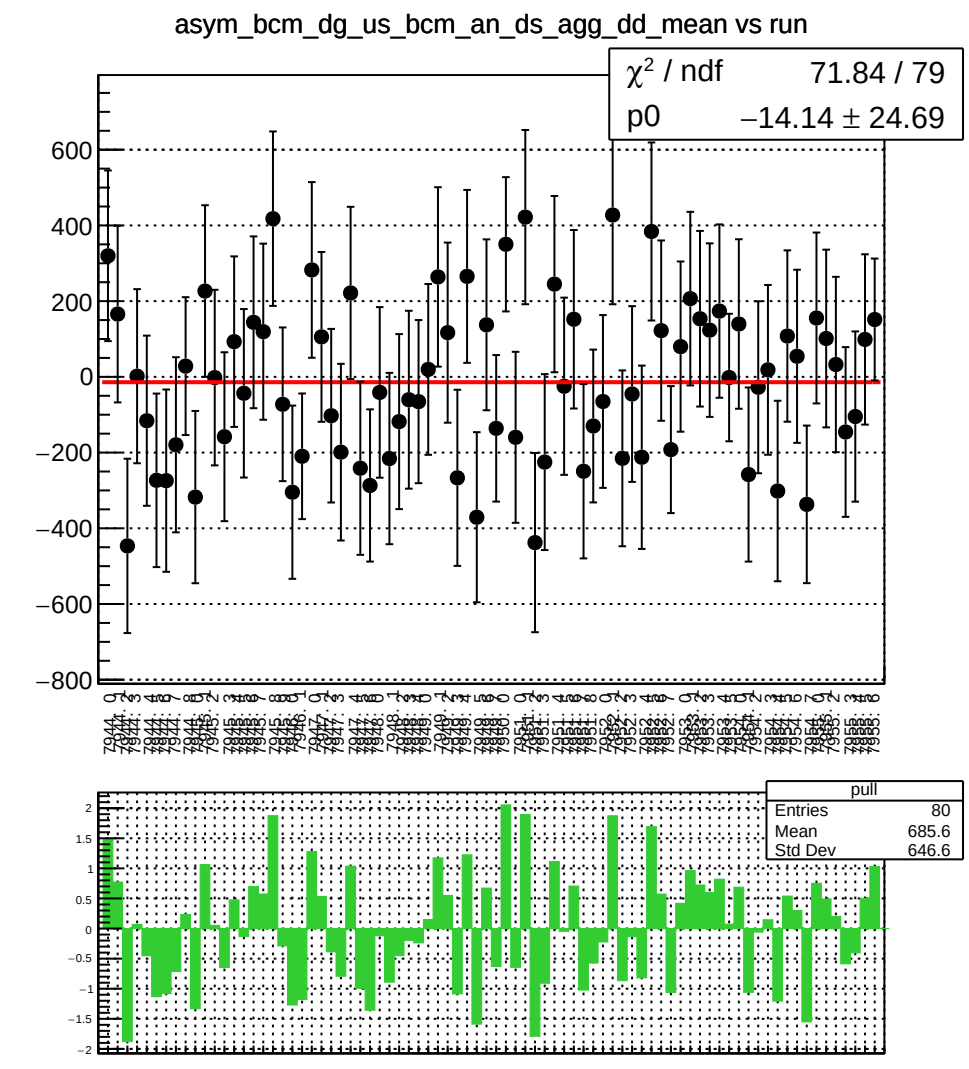

pull1D
Entries 80
Mean 0.03024
Std Dev 0.8644

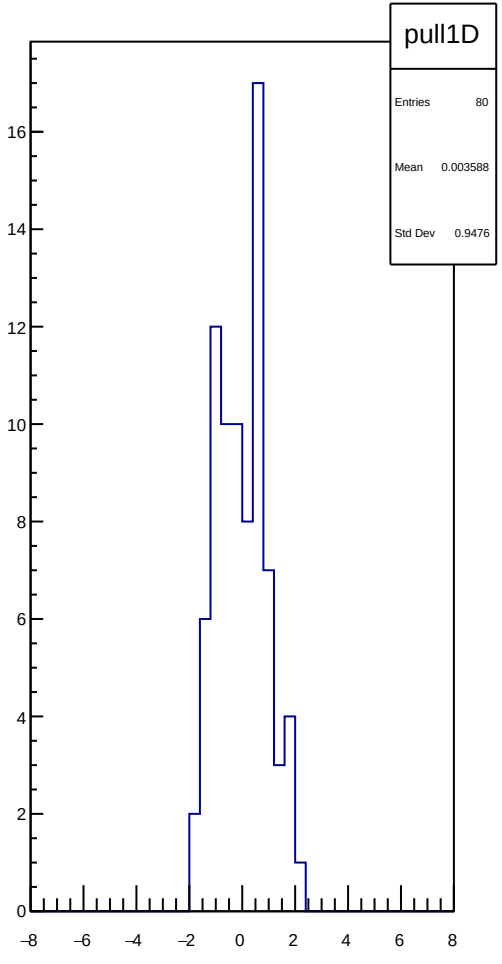

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 2.65e+04 / 79
p0 10.95 ± 0.008849
16
15
14
13
12
11
10
9

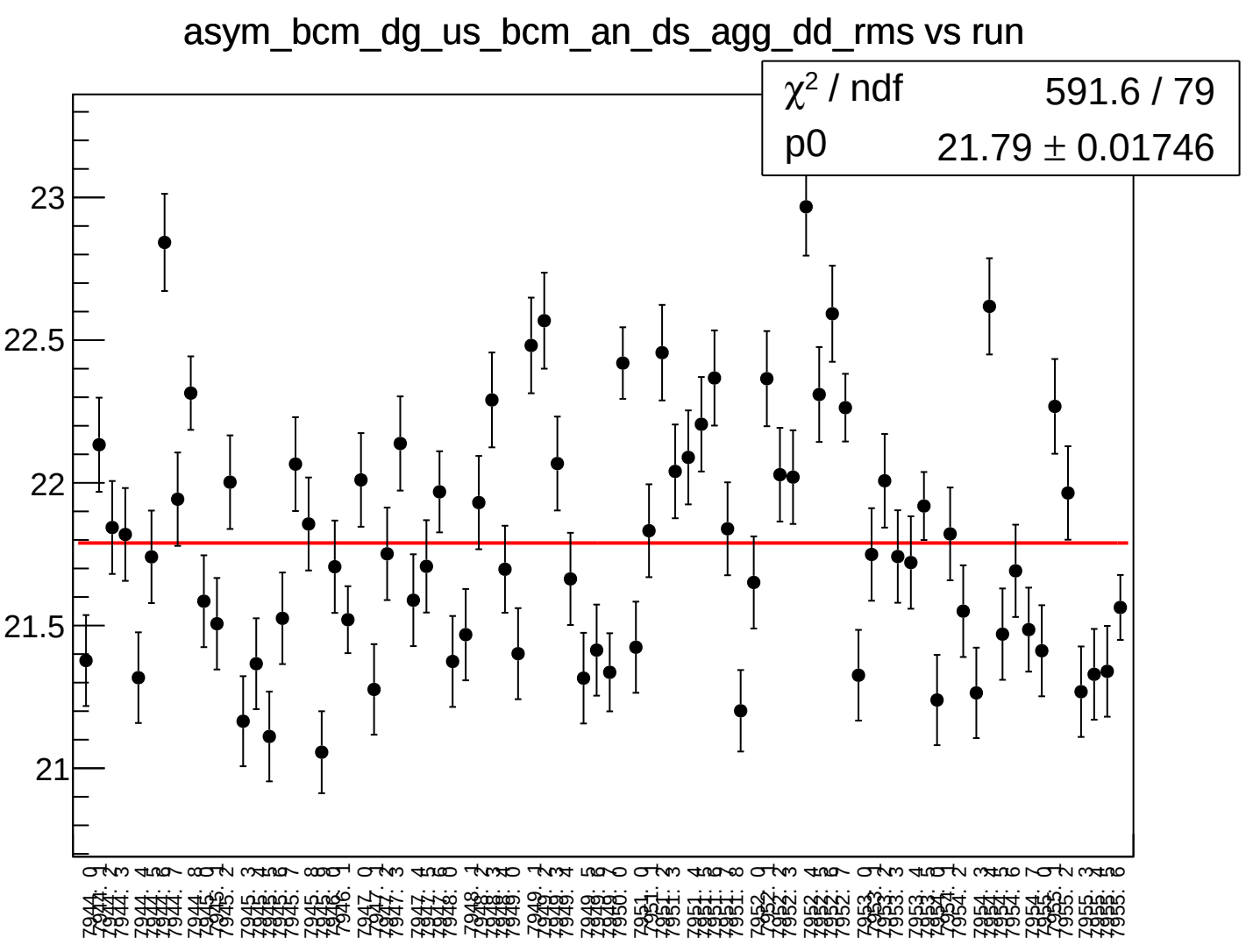

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.24 / 79
p0 24.11 ± 171.5
pull
Entries 80
Mean 352.2
Std Dev 296.7

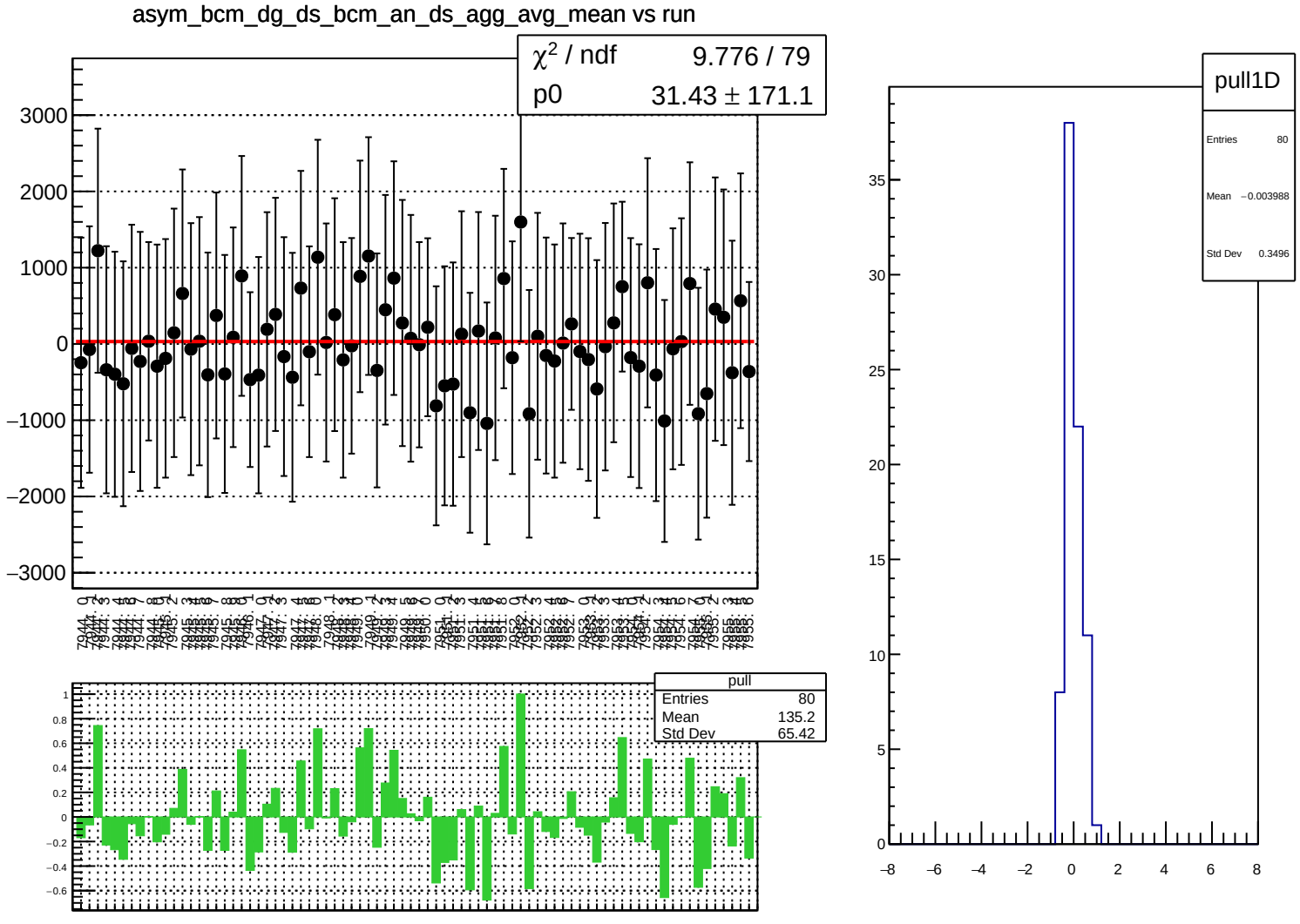

pull1D
Entries 80
Mean −0.001927
Std Dev 0.3748

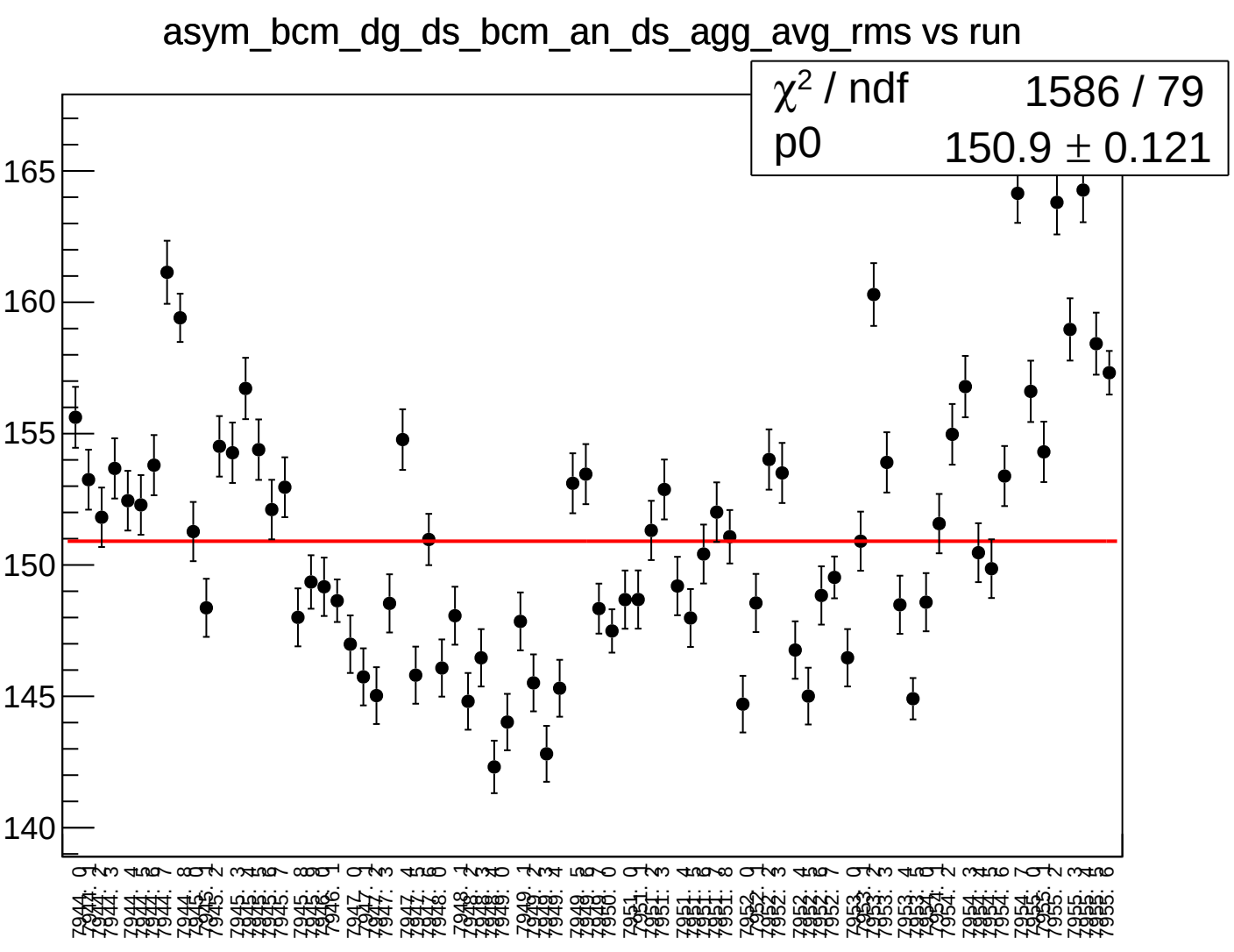

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1539 / 79
p0 151.3 ± 0.1213
165
160
155
150
145
140

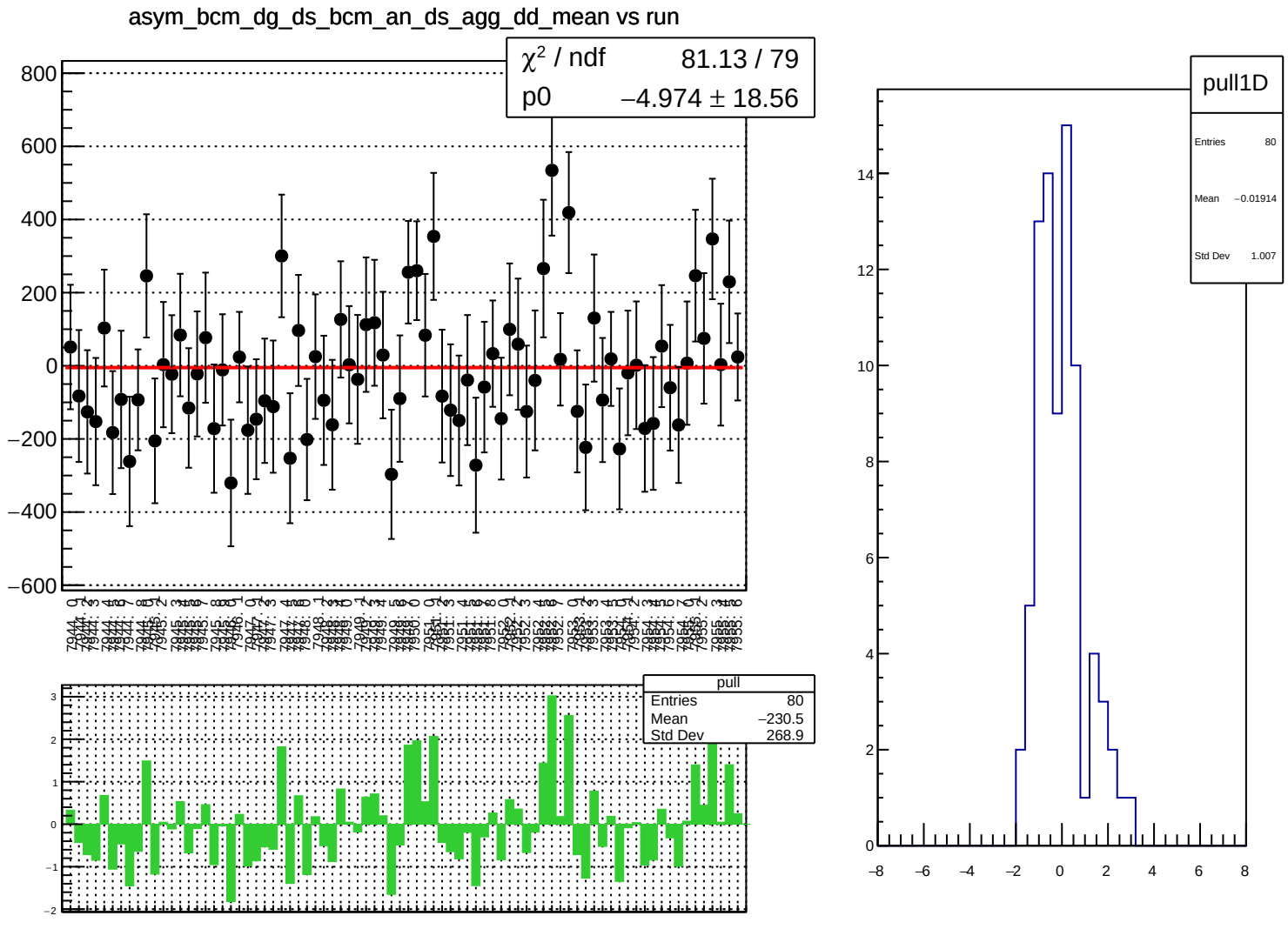

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.84 / 79
p0 −14.14 ± 24.69
pull
Entries 80
Mean 685.6
Std Dev 646.6

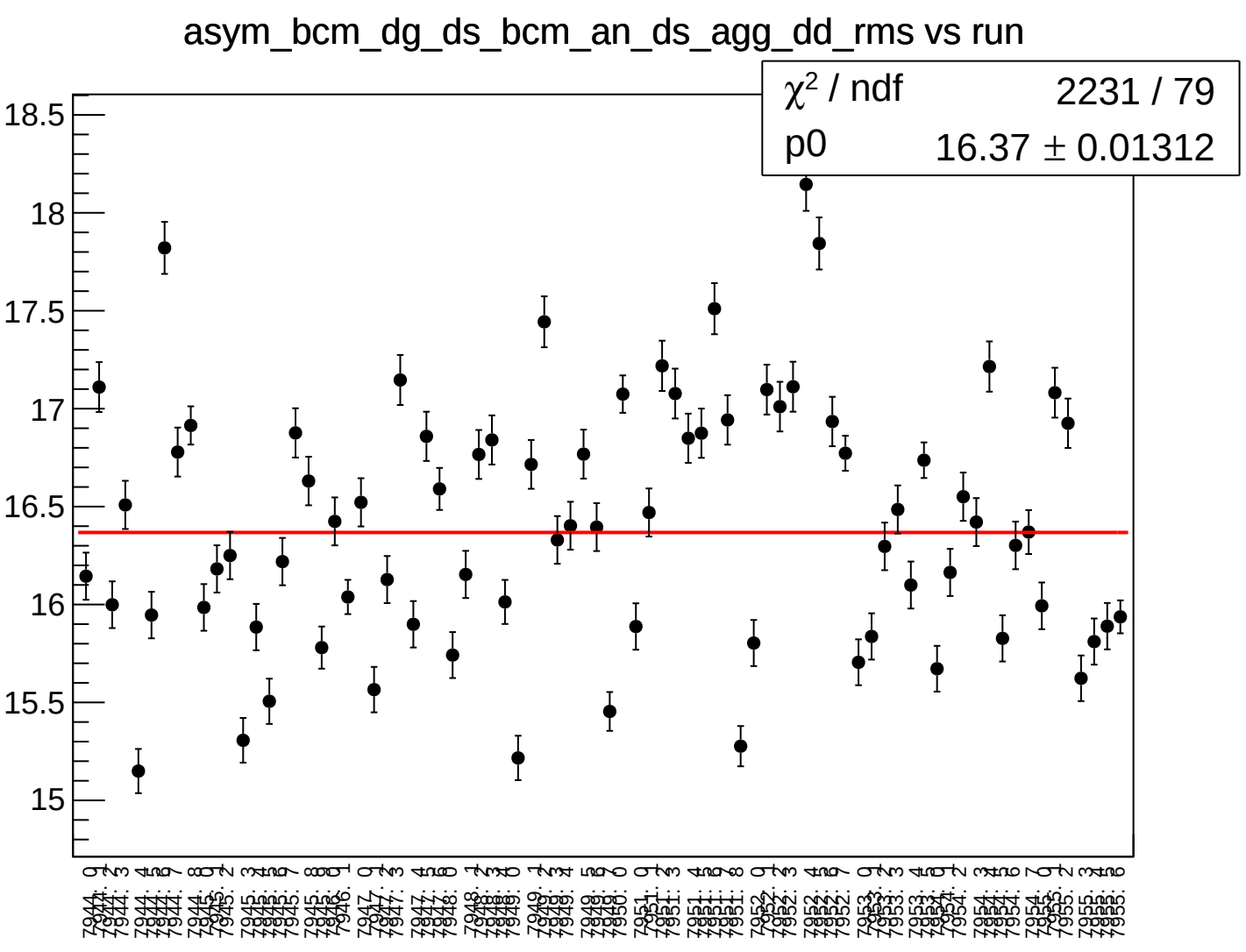

pull1D
Entries 80
Mean 0.003588
Std Dev 0.9476

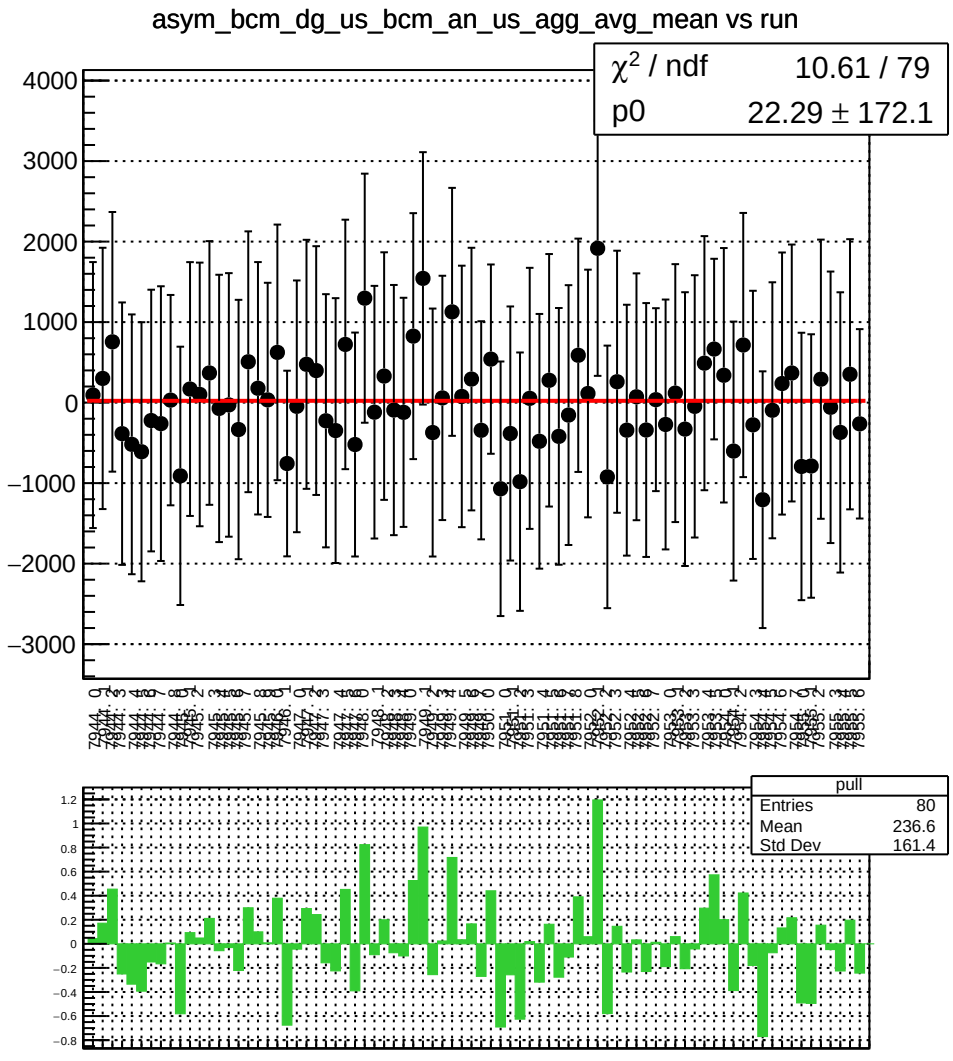

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 591.6 / 79
p0 21.79 ± 0.01746
23
22.5
22
21.5
21

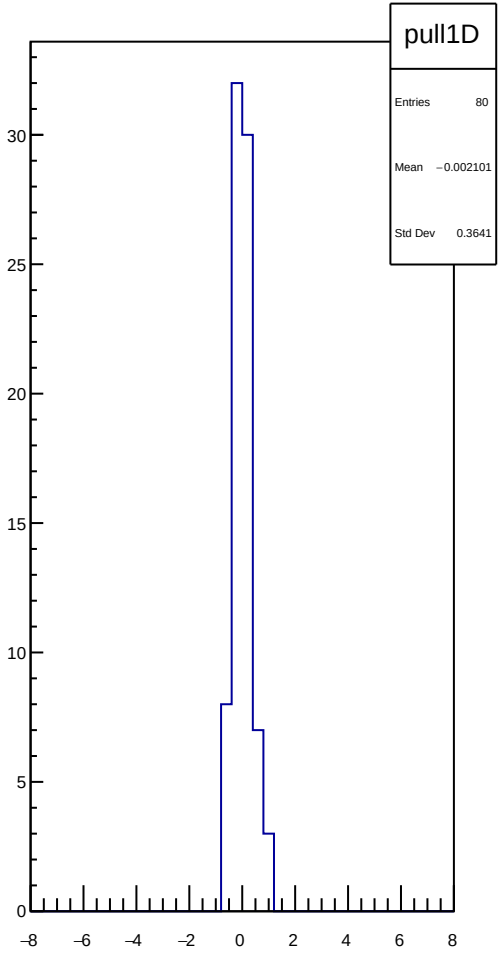

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.776 / 79
p0 31.43 ± 171.1
pull
Entries 80
Mean 135.2
Std Dev 65.42
pull1D
Entries 80
Mean −0.003988
Std Dev 0.3496

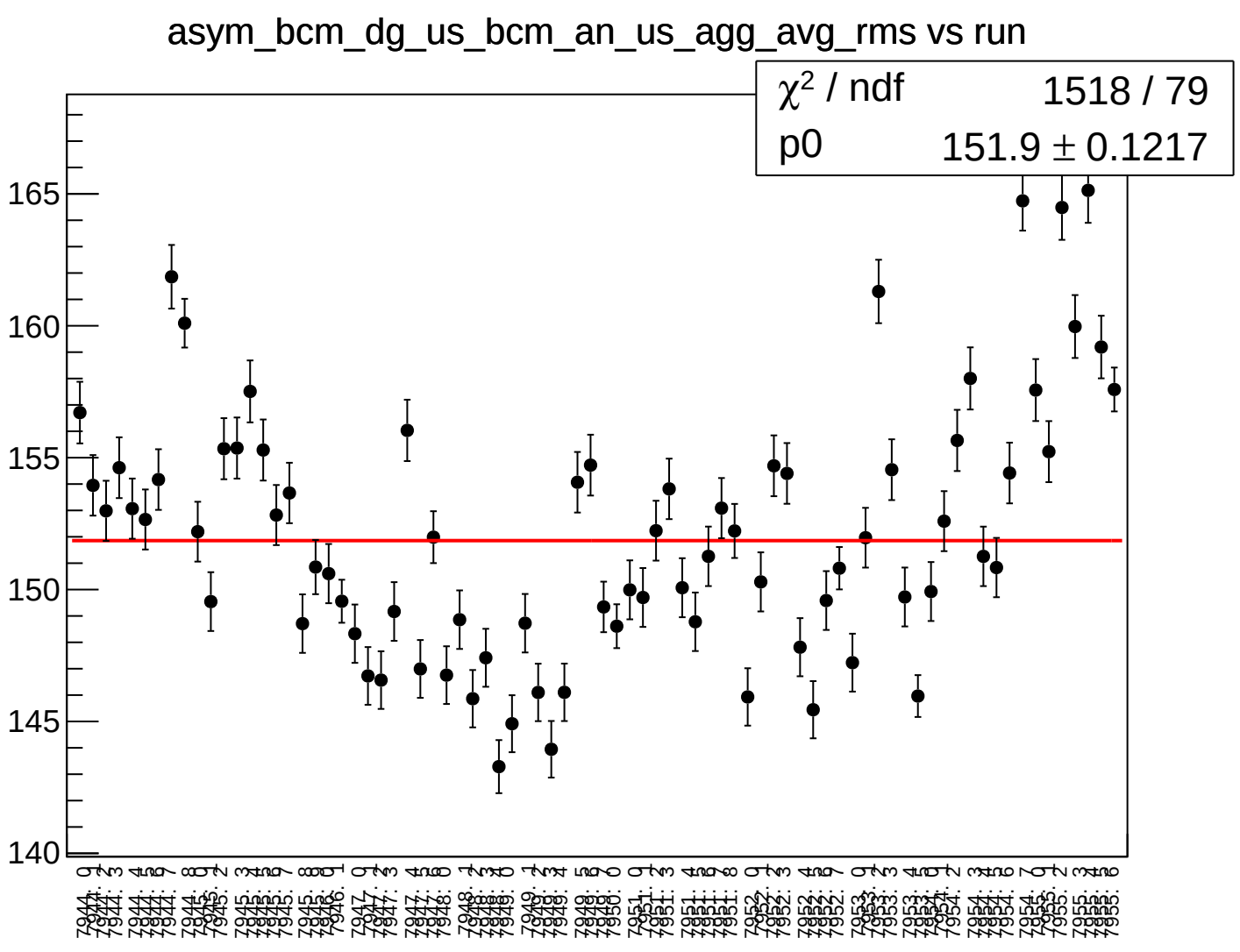

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1586 / 79
p0 150.9 ± 0.121
165
160
155
150
145
140

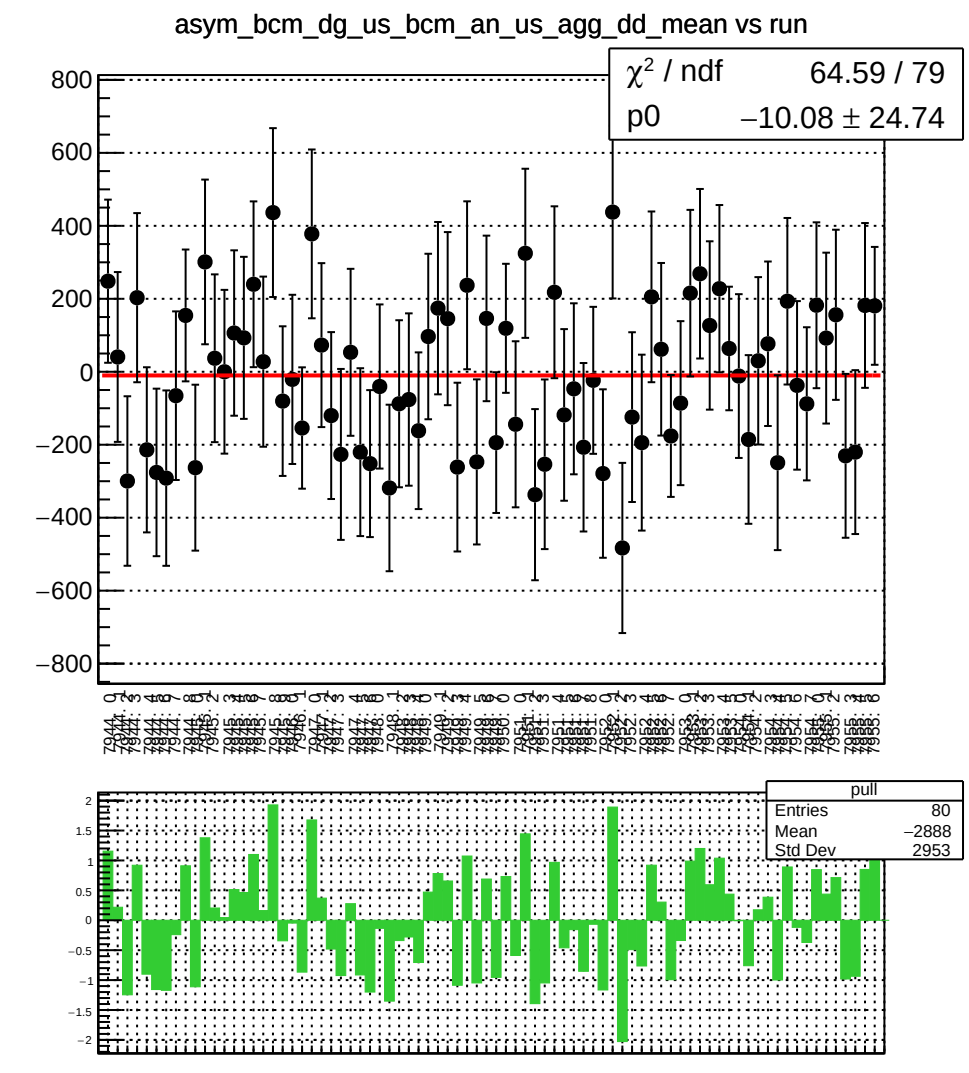

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.13 / 79
p0 −4.974 ± 18.56
pull
Entries 80
Mean −230.5
Std Dev 268.9
pull1D
Entries 80
Mean −0.01914
Std Dev 1.007

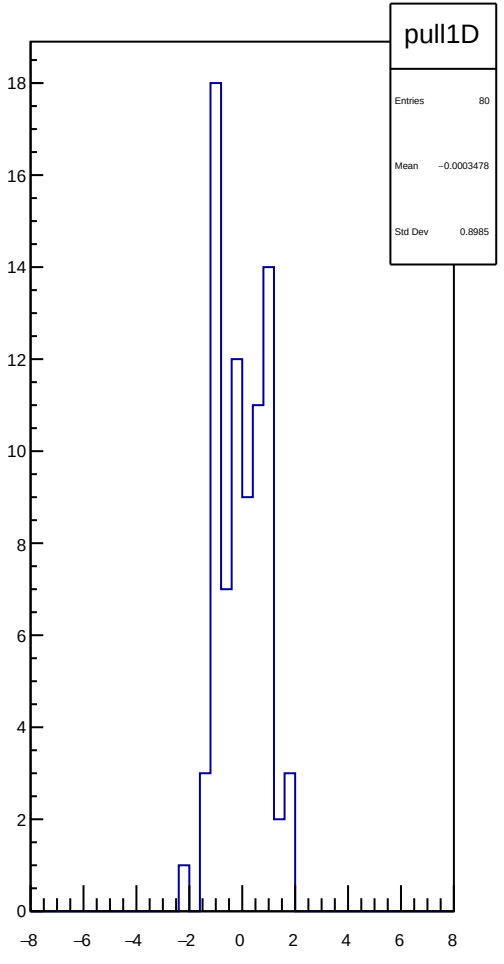

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2231 / 79
p0 16.37 ± 0.01312
18.5
18
17.5
17
16.5
16
15.5
15

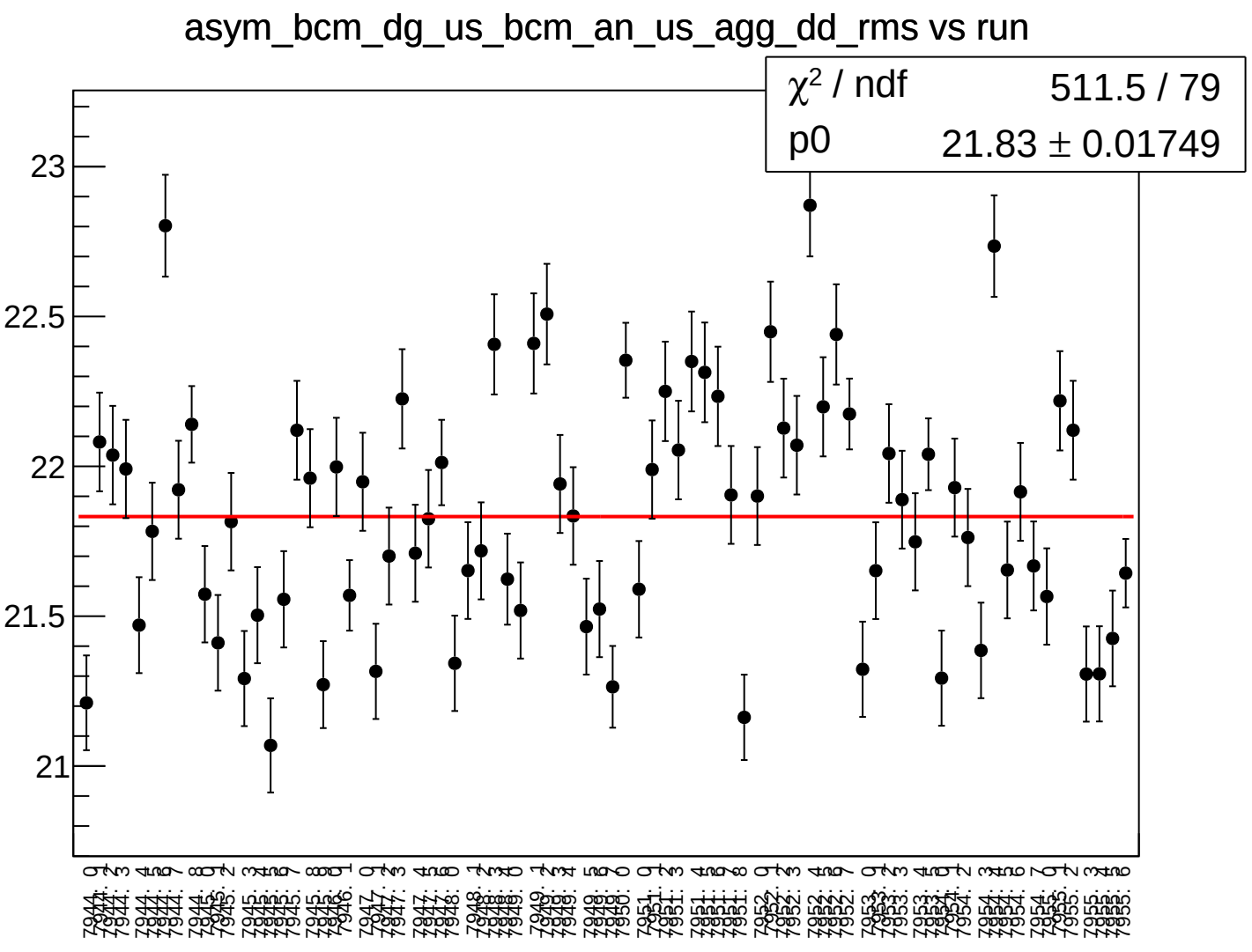

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.61 / 79
p0 22.29 ± 172.1
pull
Entries 80
Mean 236.6
Std Dev 161.4

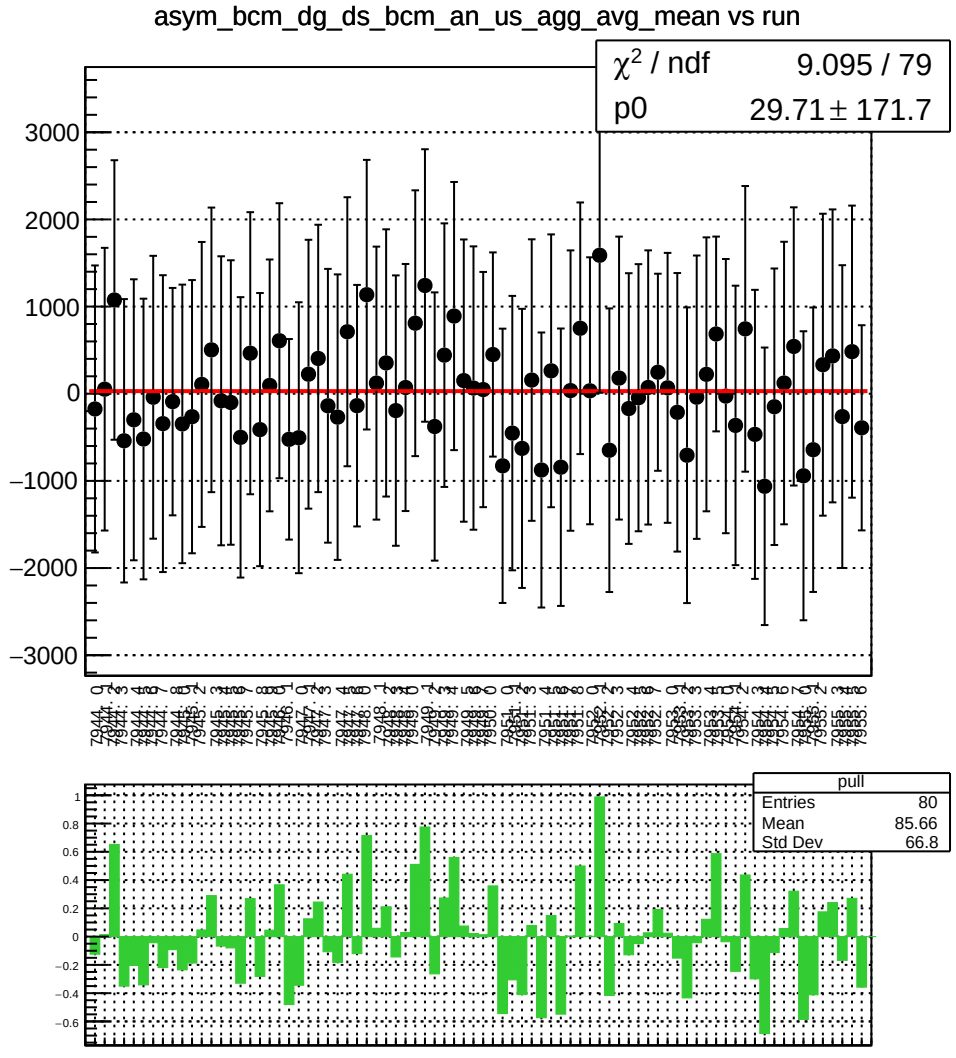

pull1D
Entries 80
Mean −0.002101
Std Dev 0.3641

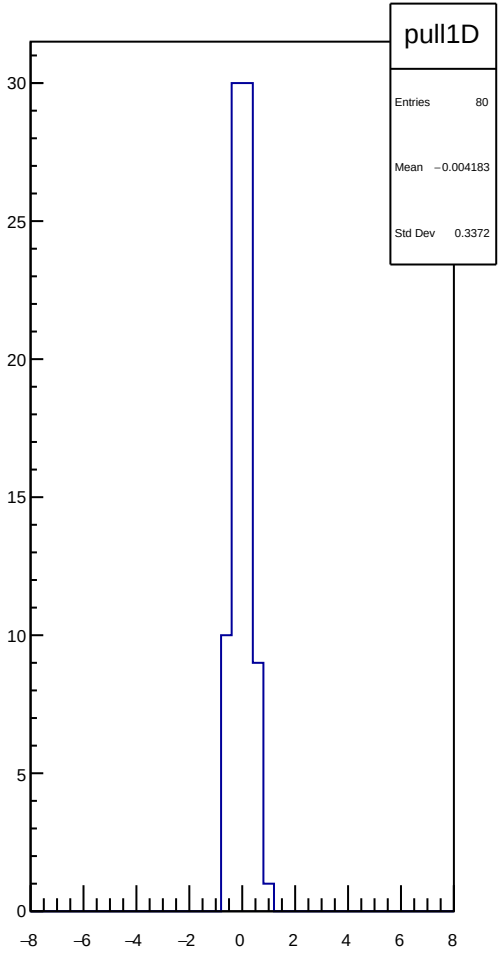

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1518 / 79
p0 151.9 ± 0.1217
165
160
155
150
145
140

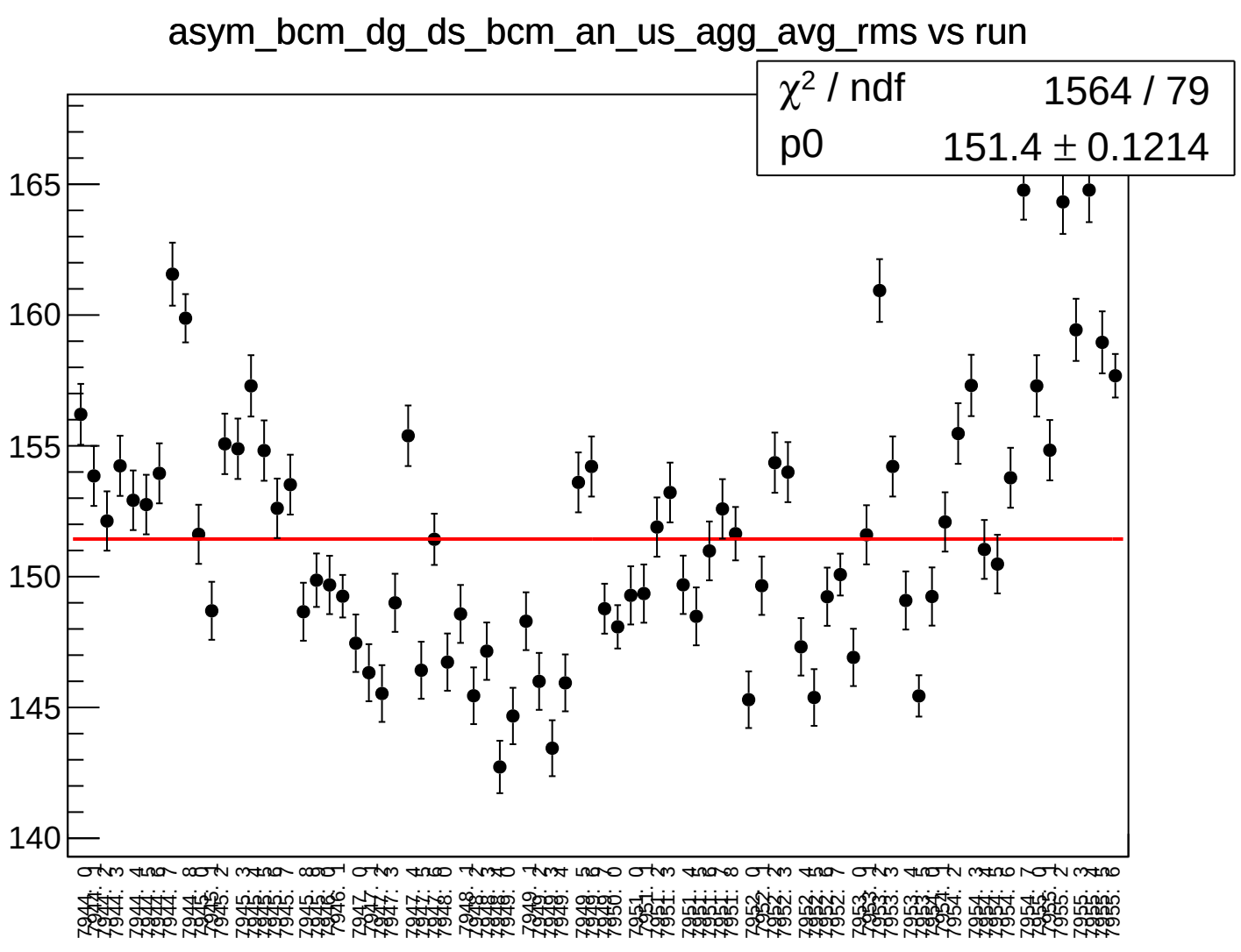

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 64.59 / 79
p0 −10.08 ± 24.74
pull
Entries 80
Mean −2888
Std Dev 2953

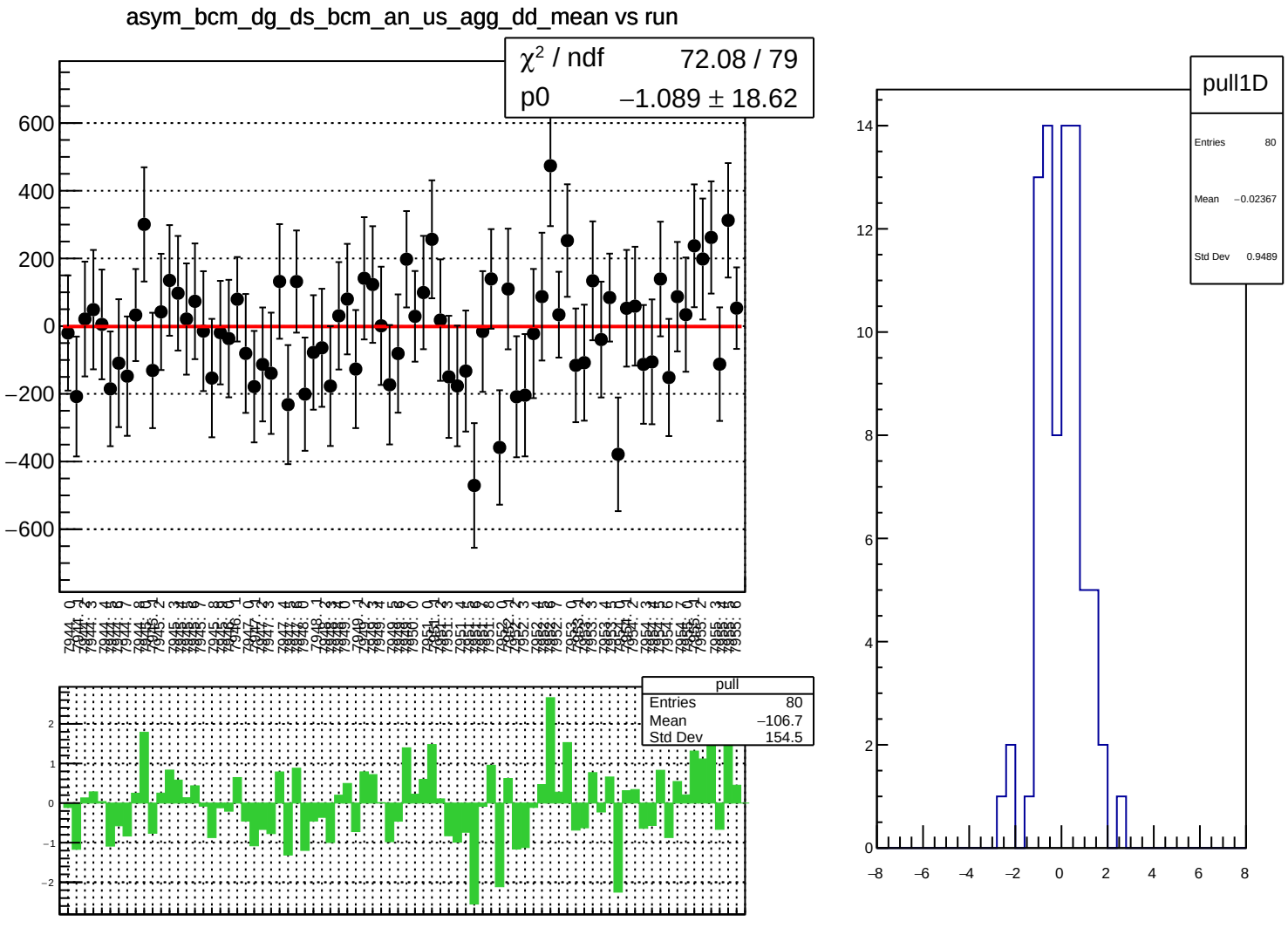

pull1D
Entries 80
Mean −0.0003478
Std Dev 0.8985

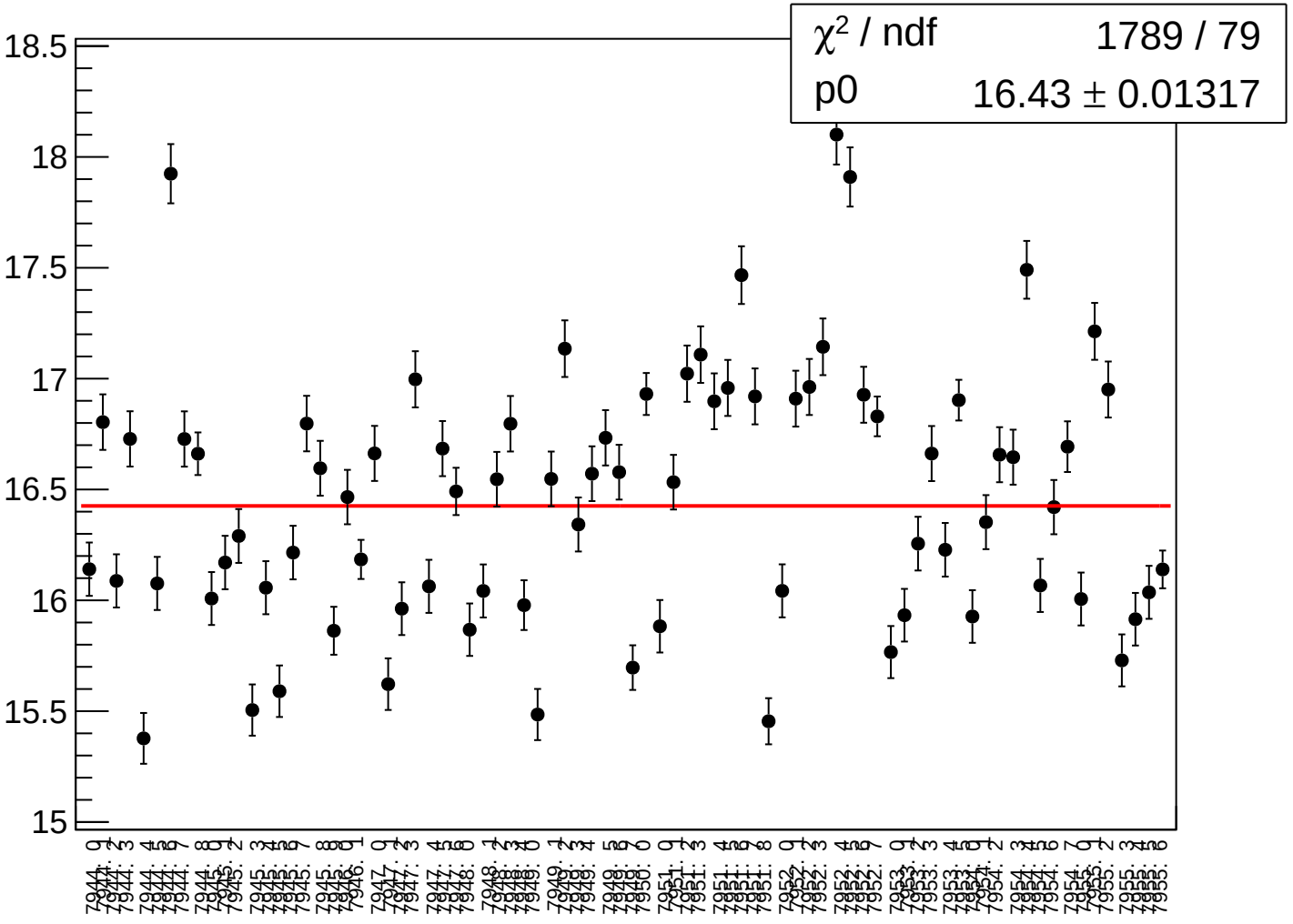

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 511.5 / 79
p0 21.83 ± 0.01749
23
22.5
22
21.5
21

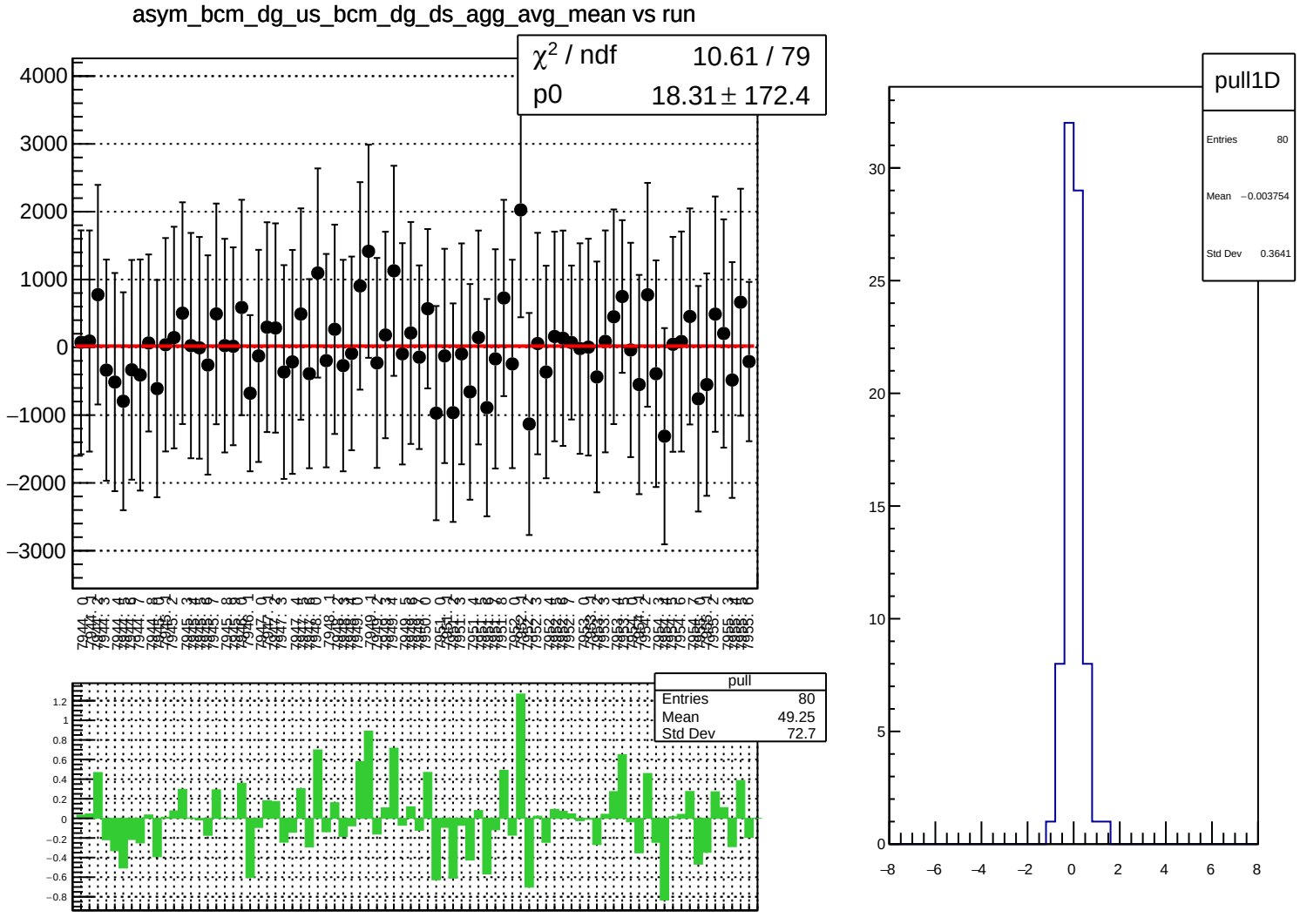

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 9.095 / 79
p0 29.71 ± 171.7
pull
Entries 80
Mean 85.66
Std Dev 66.8

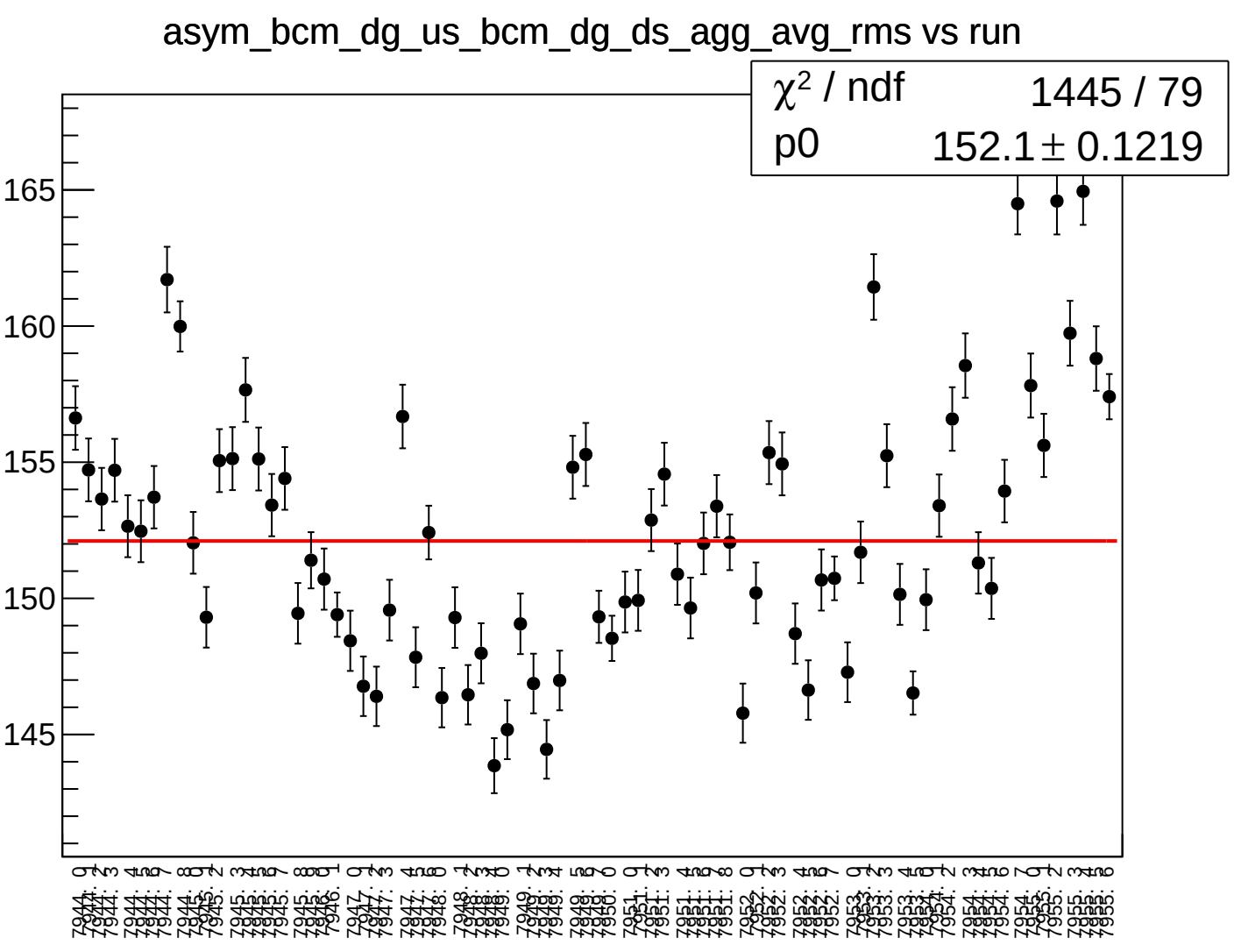

pull1D
Entries 80
Mean −0.004183
Std Dev 0.3372

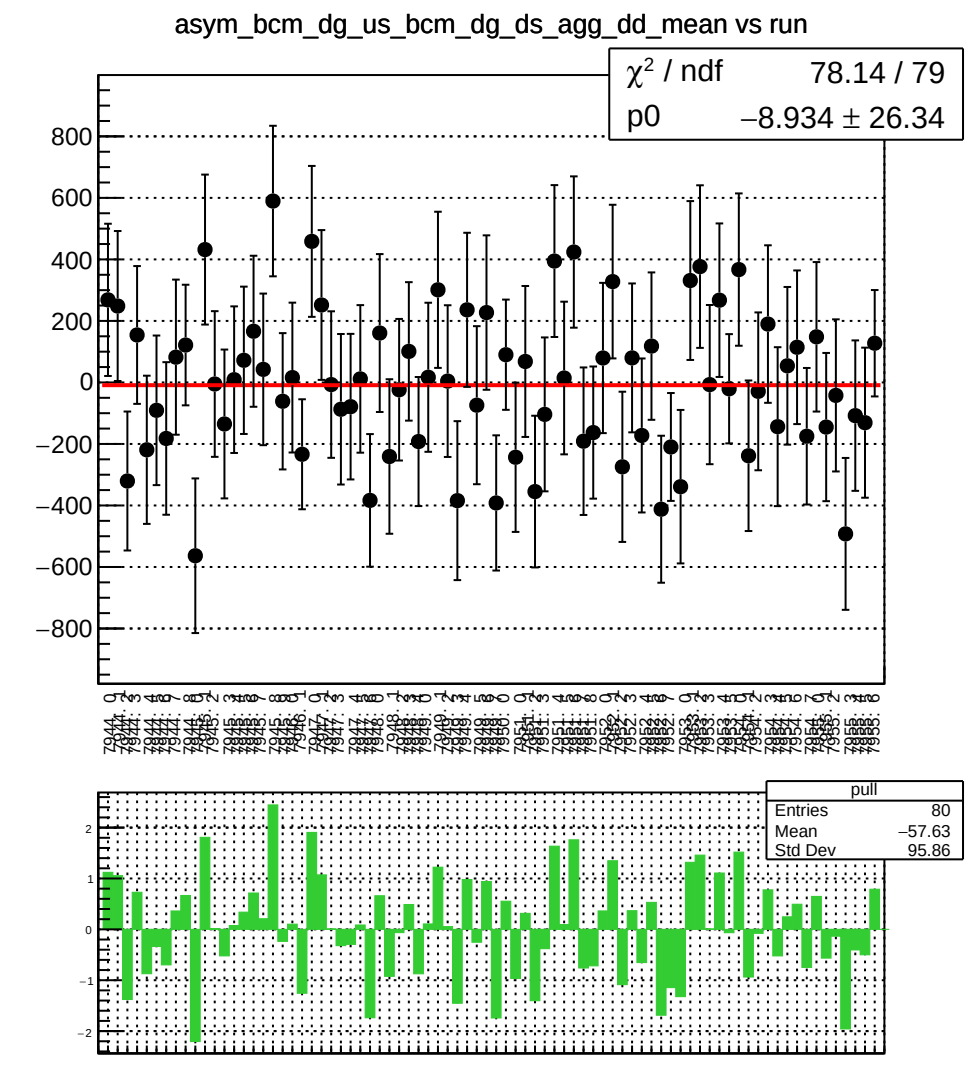

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1564 / 79
p0 151.4 ± 0.1214
165
160
155
150
145
140

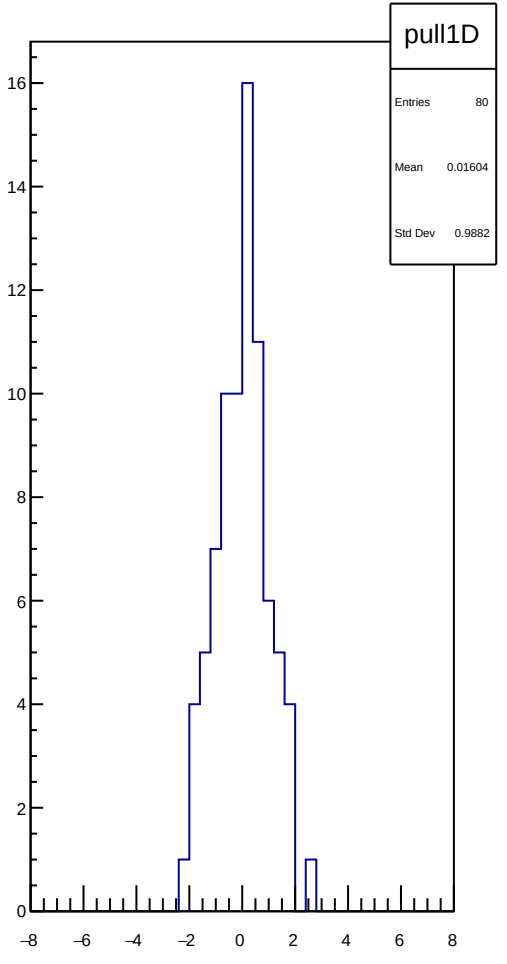

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.08 / 79
p0 −1.089 ± 18.62
pull
Entries 80
Mean −106.7
Std Dev 154.5
pull1D
Entries 80
Mean −0.02367
Std Dev 0.9489

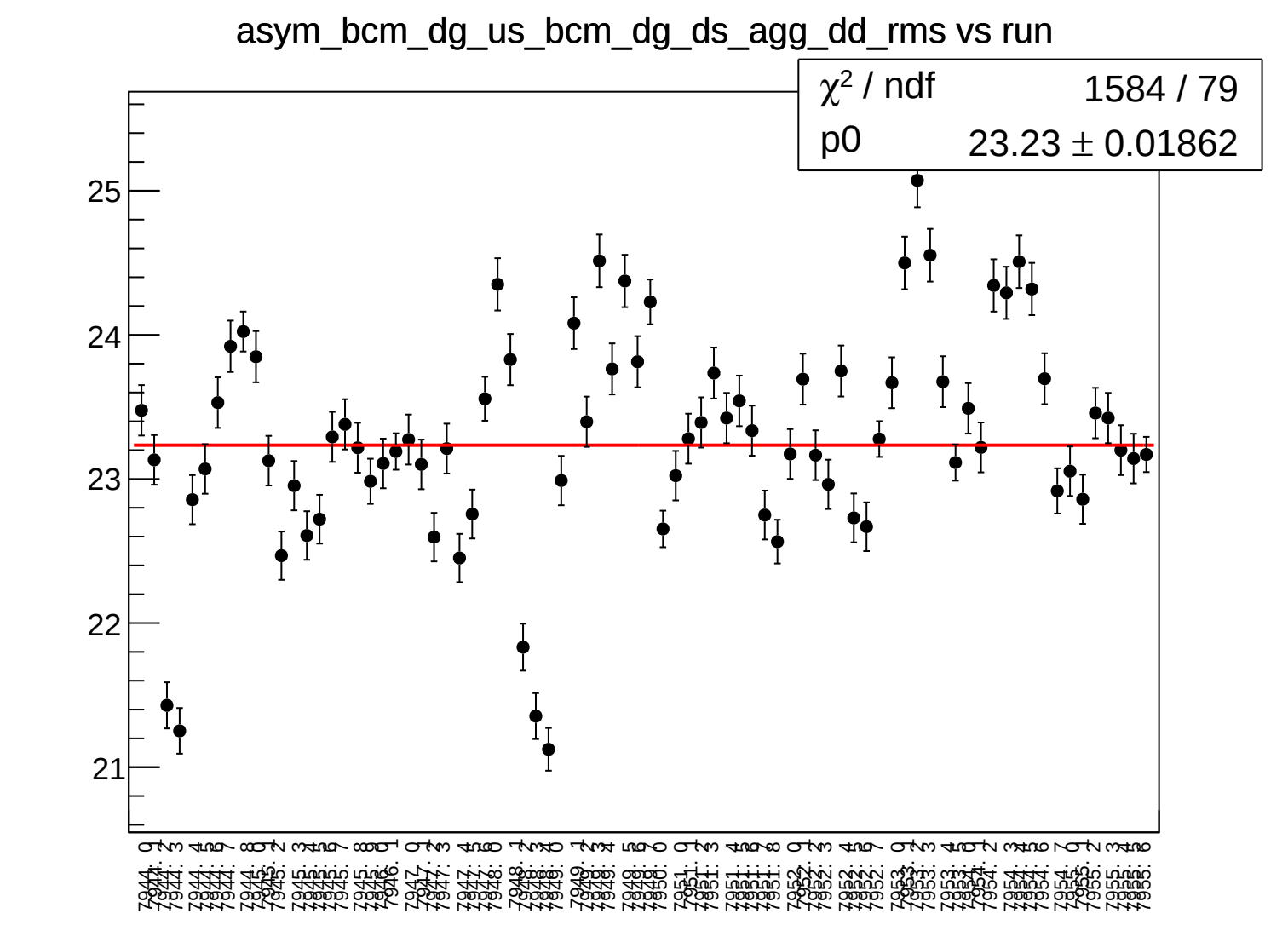

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1789 / 79
p0 16.43 ± 0.01317
18.5
18
17.5
17
16.5
16
15.5
15

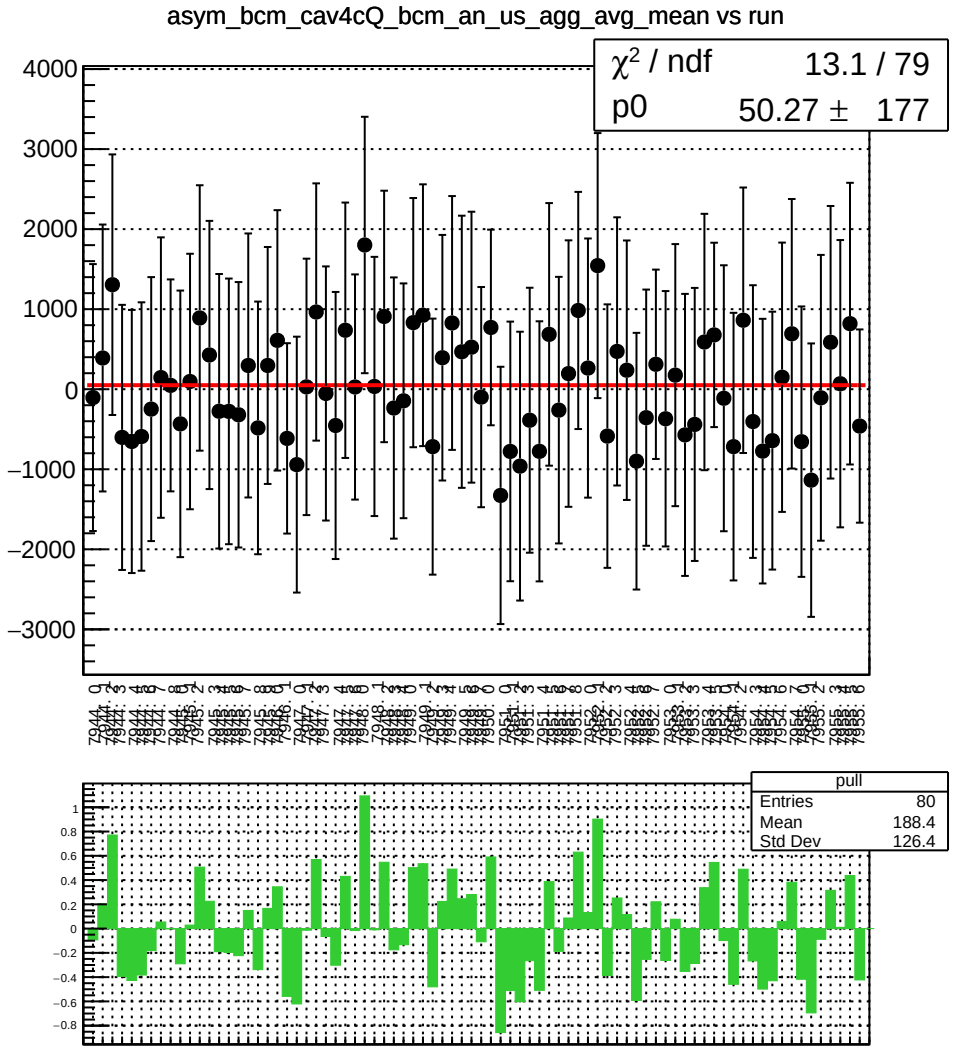

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 10.61 / 79
p0 18.31 ± 172.4
pull
Entries 80
Mean 49.25
Std Dev 72.7
pull1D
Entries 80
Mean −0.003754
Std Dev 0.3641

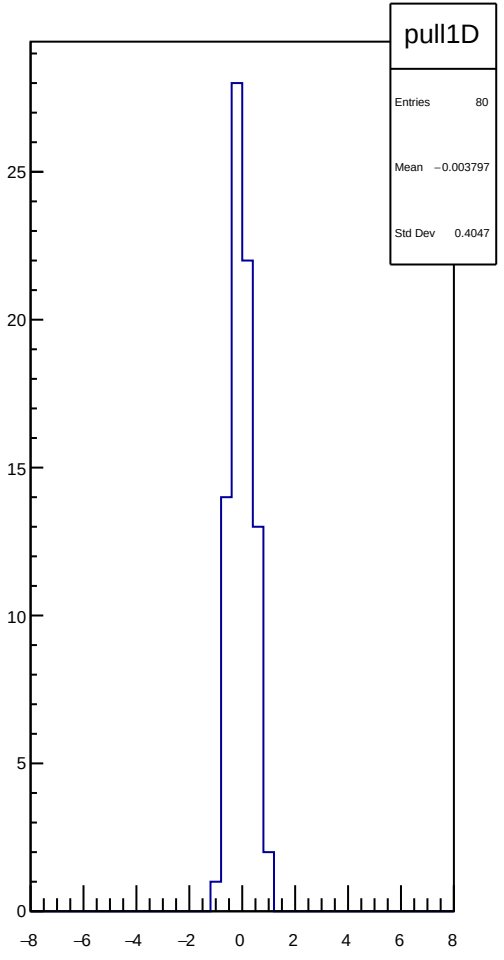

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1445 / 79
p0 152.1 ± 0.1219
165
160
155
150
145

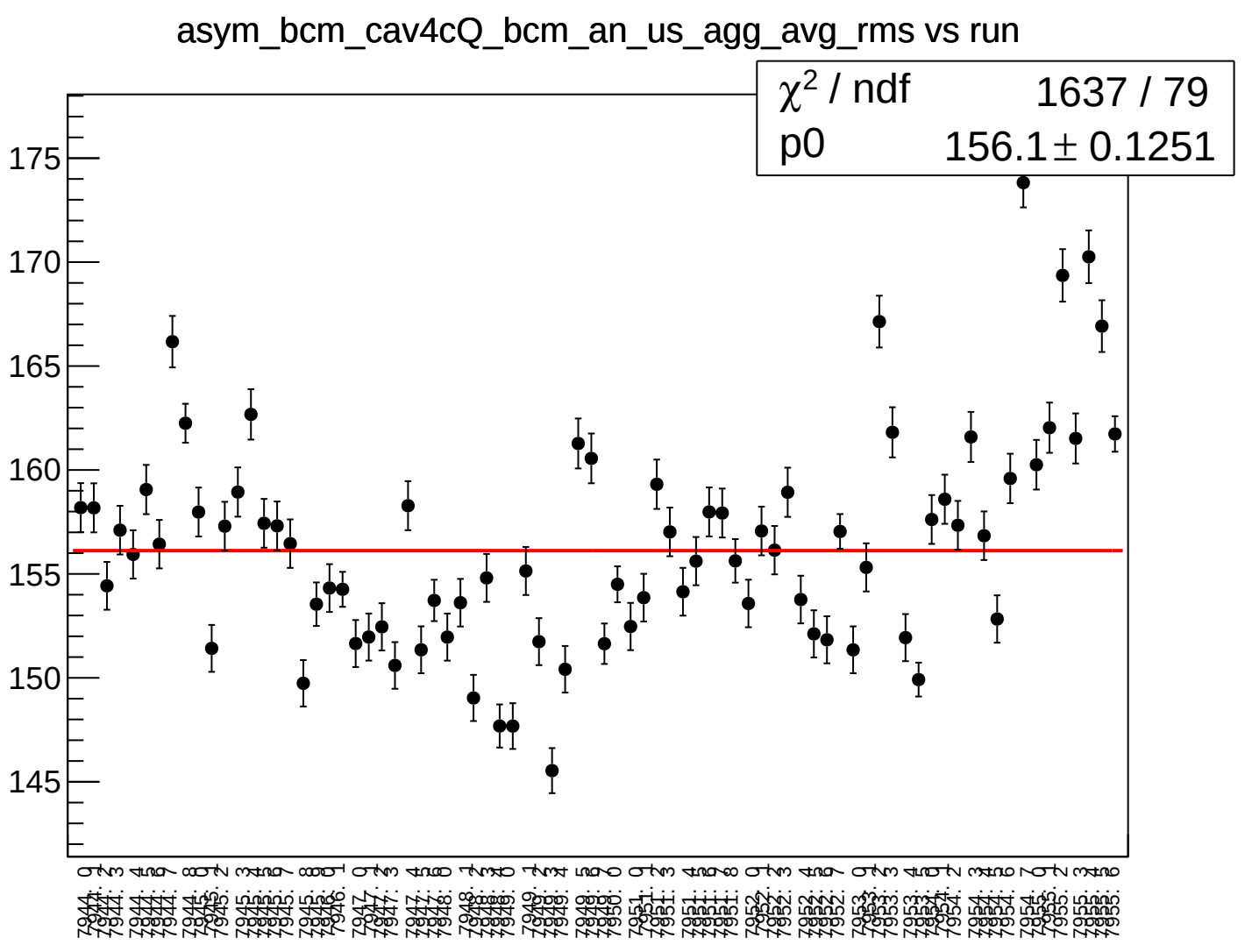

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.14 / 79
p0 −8.934 ± 26.34
800
600
400
200
0
−200
−400
−600
−800
pull
Entries 80
Mean −57.63
Std Dev 95.86
2
1
0
−1
−2

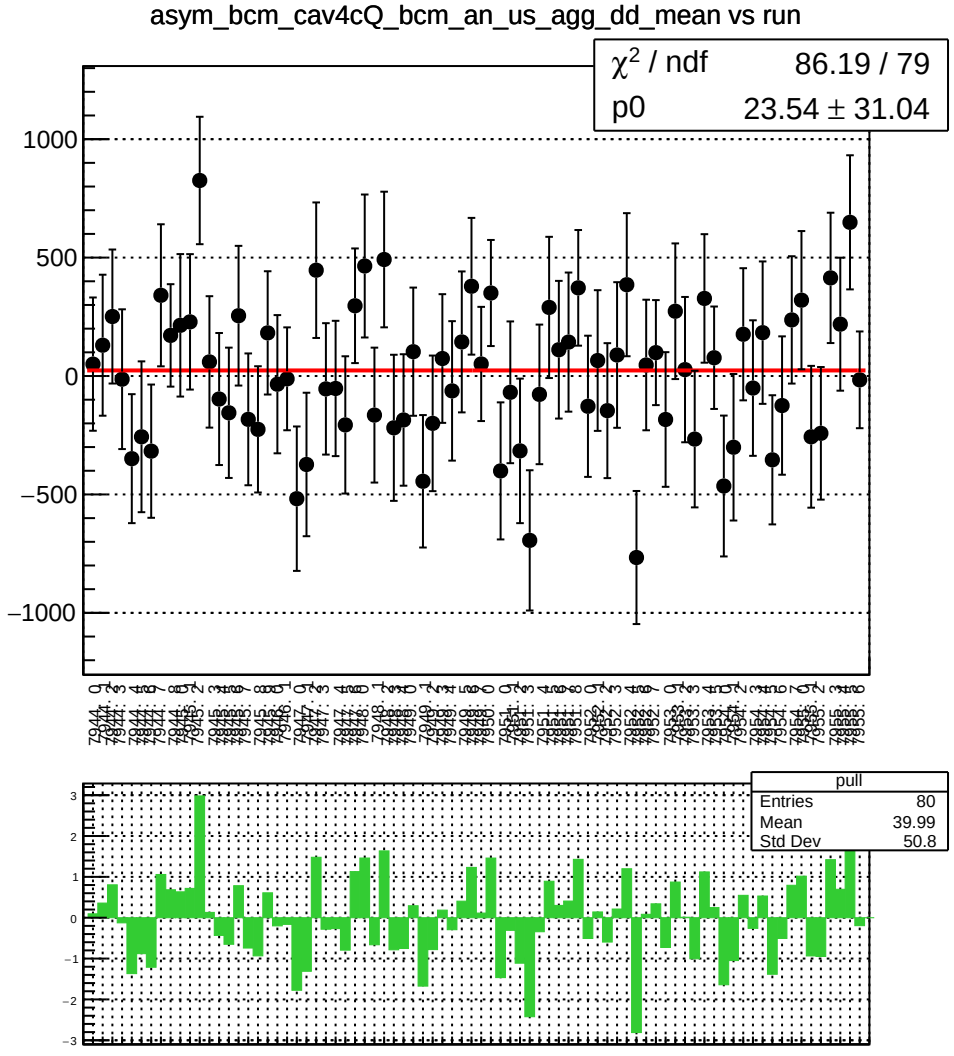

pull1D
Entries 80
Mean 0.01604
Std Dev 0.9882
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

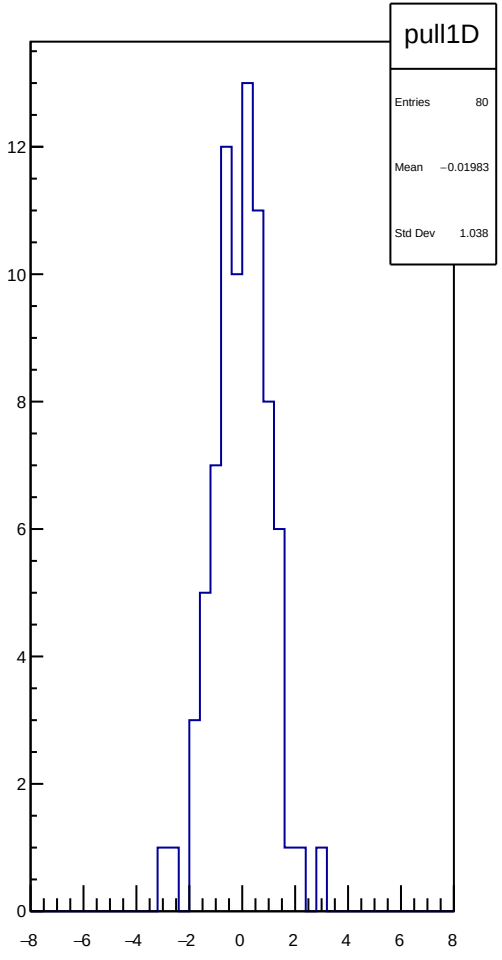

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1584 / 79
p0 23.23 ± 0.01862
25
24
23
22
21

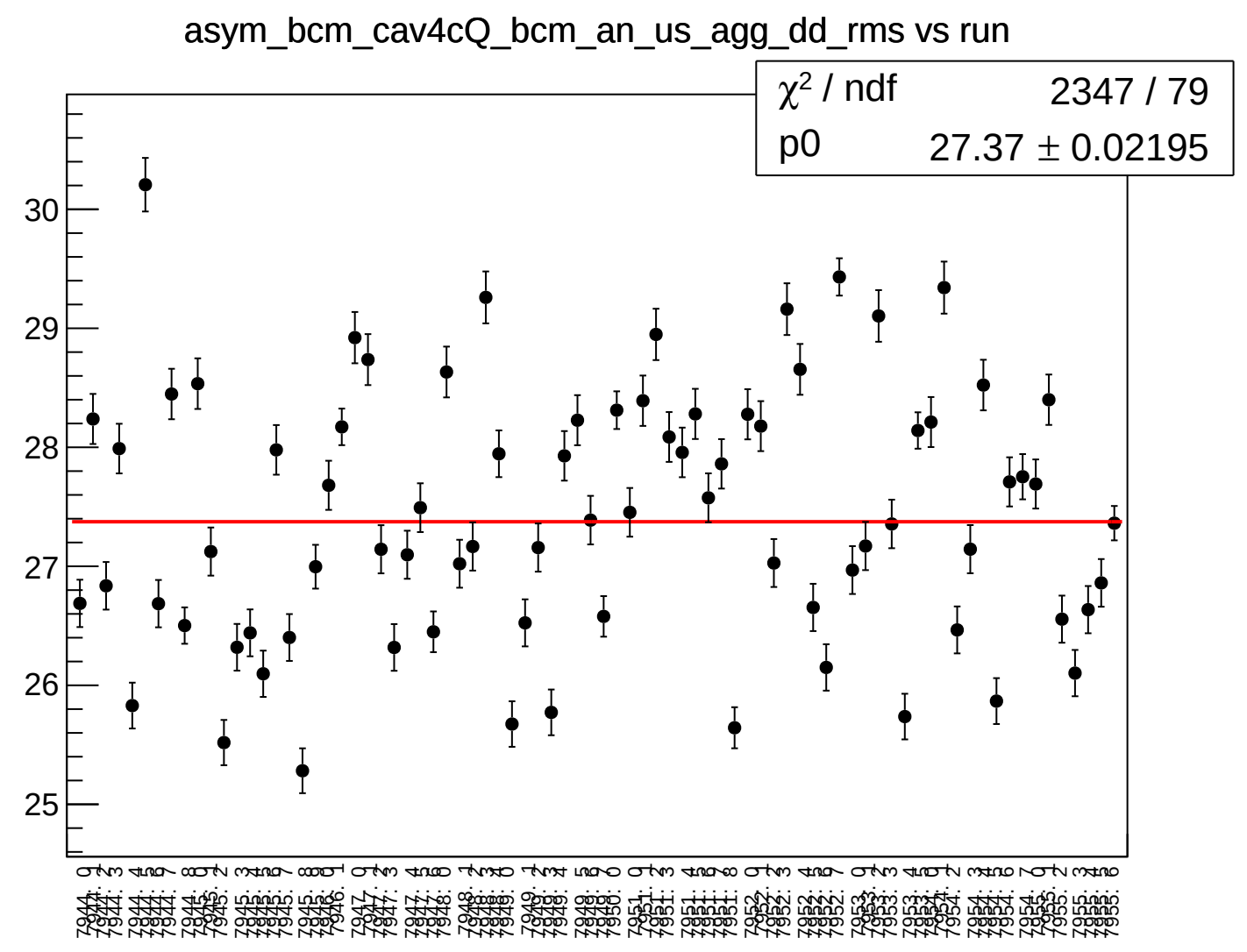

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 13.1 / 79
p0 50.27 ± 177
pull
Entries 80
Mean 188.4
Std Dev 126.4

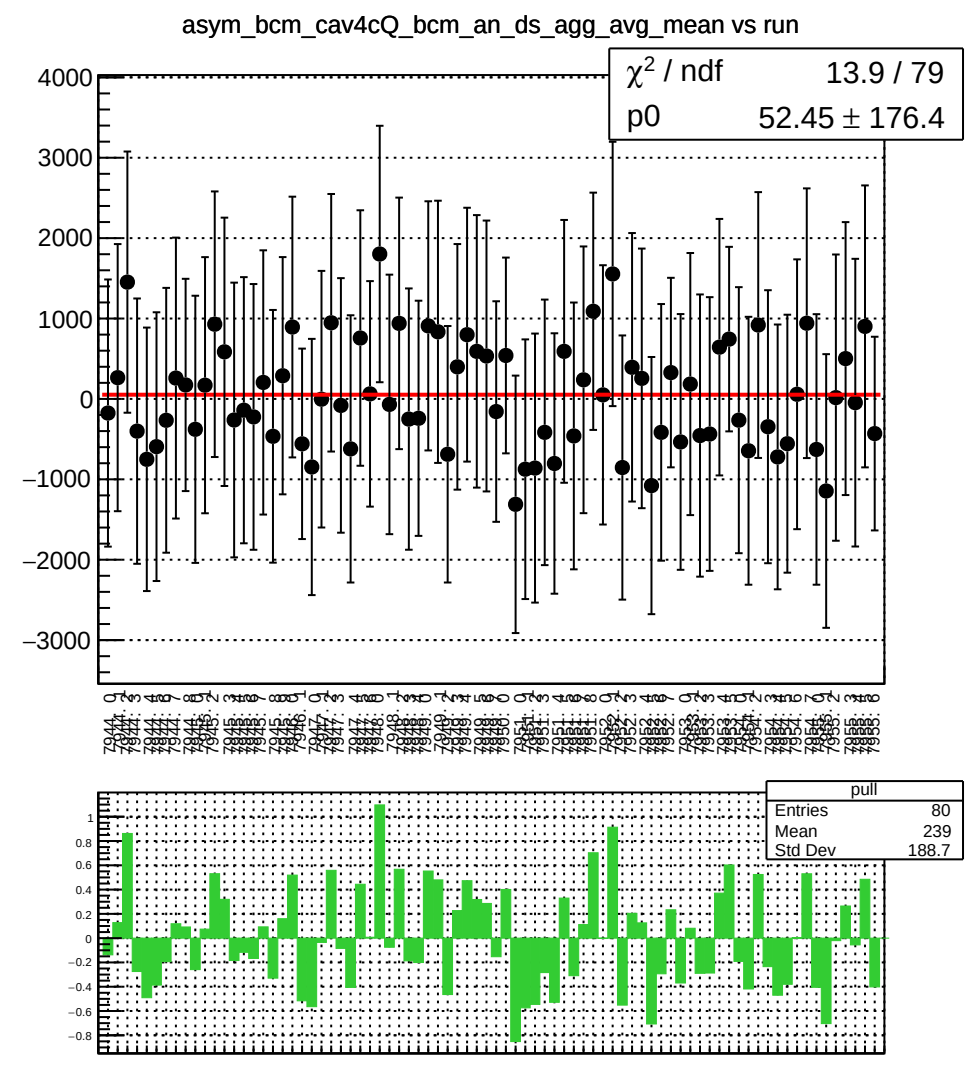

pull1D
Entries 80
Mean −0.003797
Std Dev 0.4047

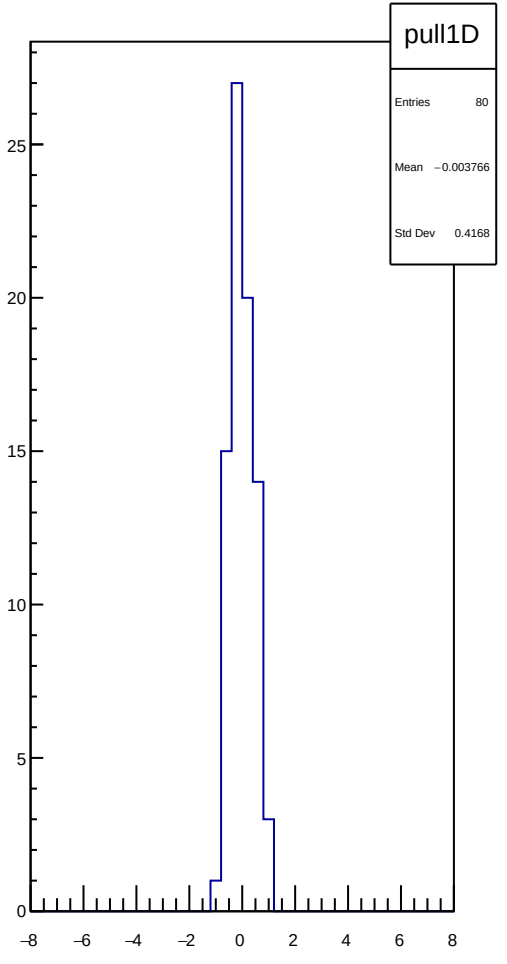

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1637 / 79
p0 156.1 ± 0.1251
175
170
165
160
155
150
145

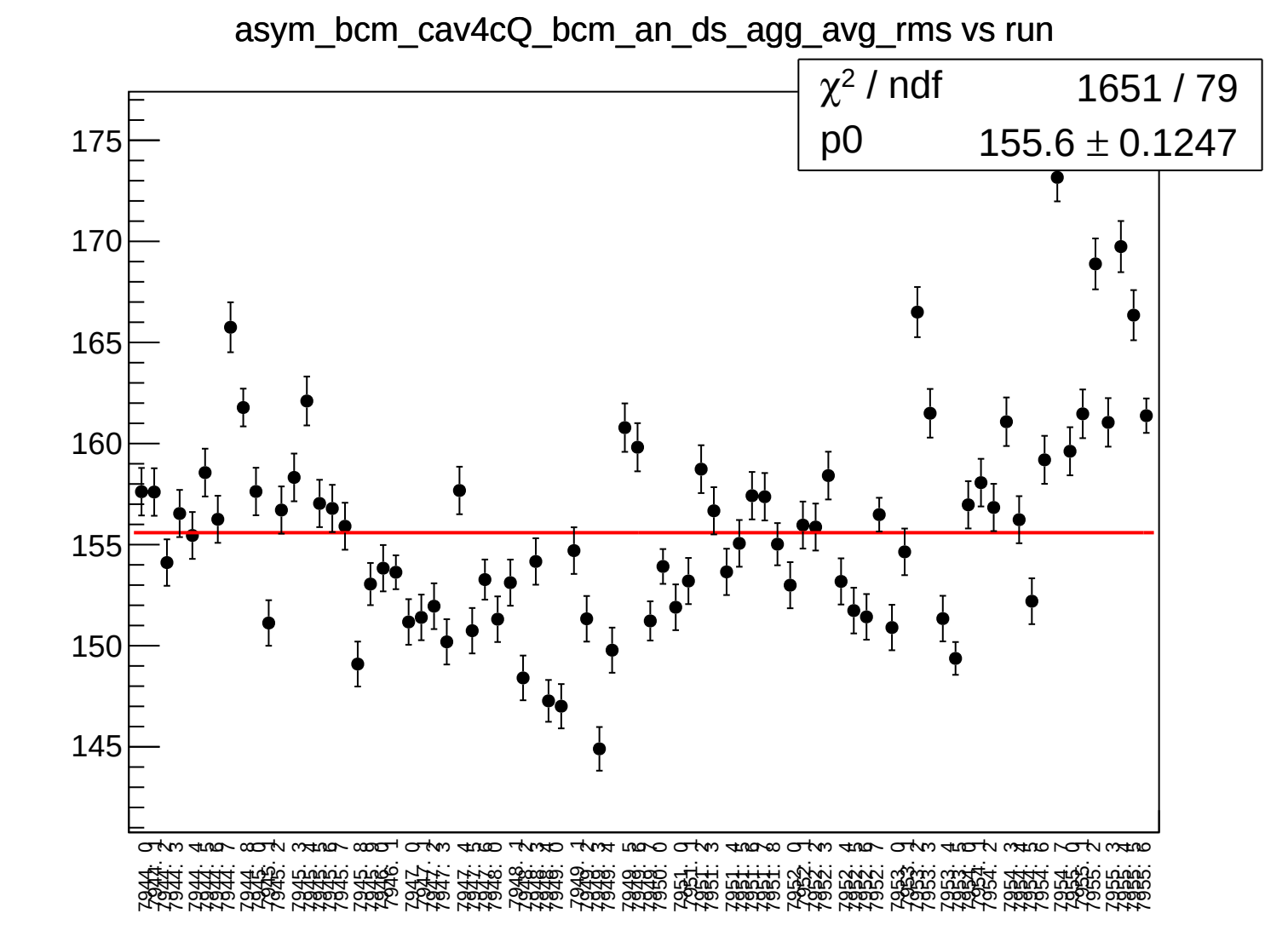

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.19 / 79
p0 23.54 ± 31.04
1000
500
0
−500
−1000
pull
Entries 80
Mean 39.99
Std Dev 50.8
3
2
1
0
−1
−2
−3

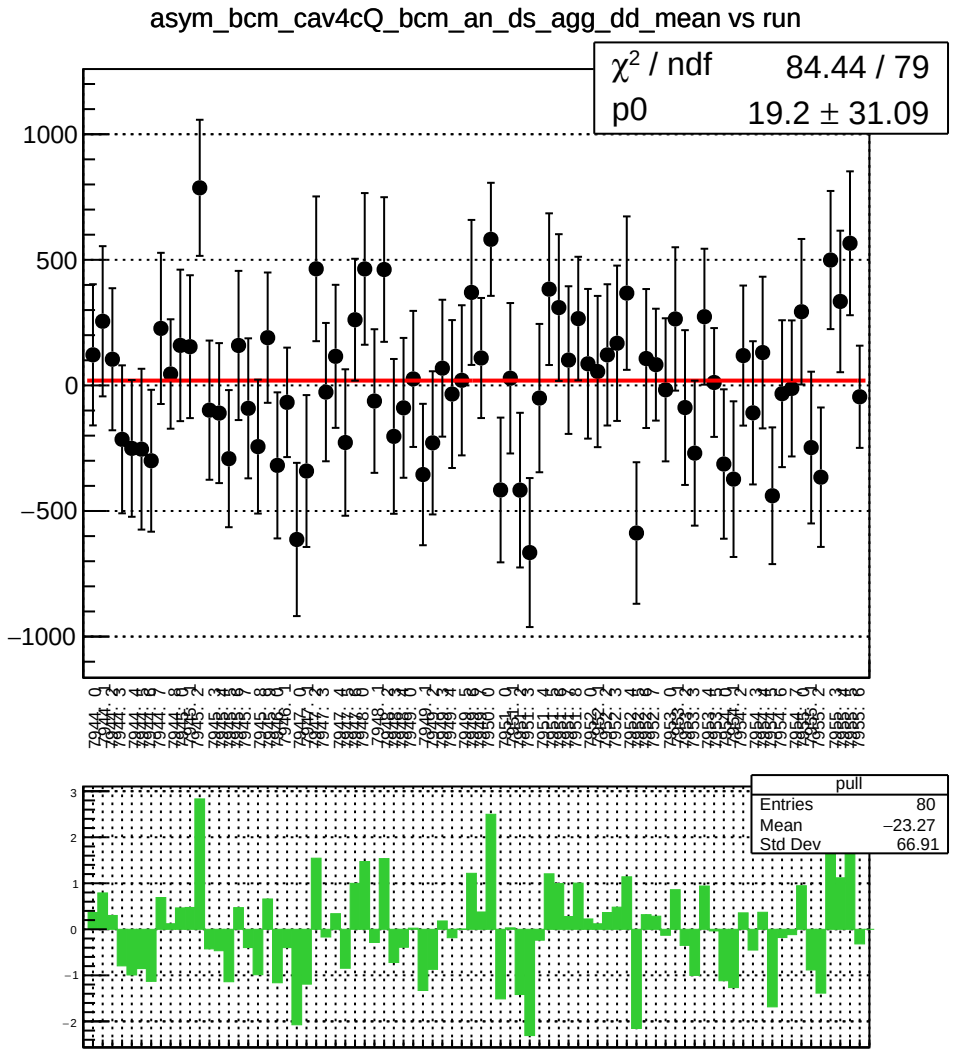

pull1D
Entries 80
Mean −0.01983
Std Dev 1.038
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

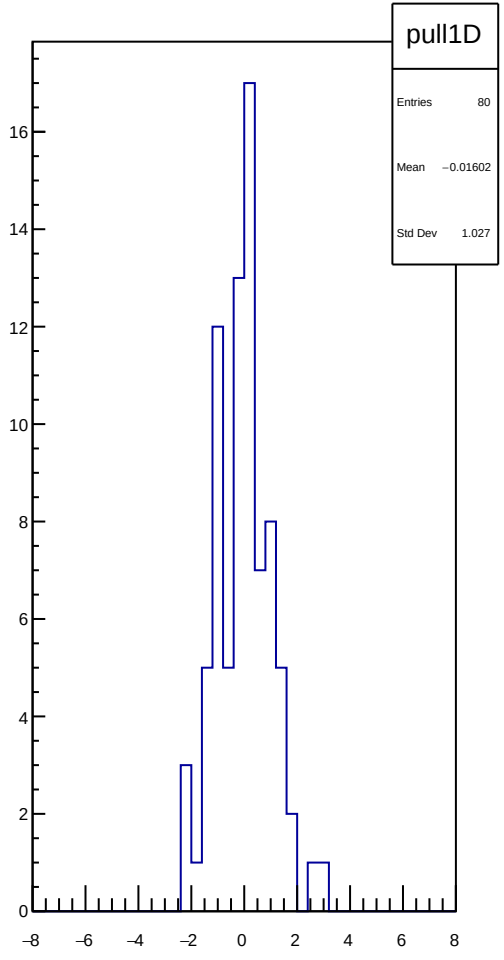

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2347 / 79
p0 27.37 ± 0.02195
30
29
28
27
26
25

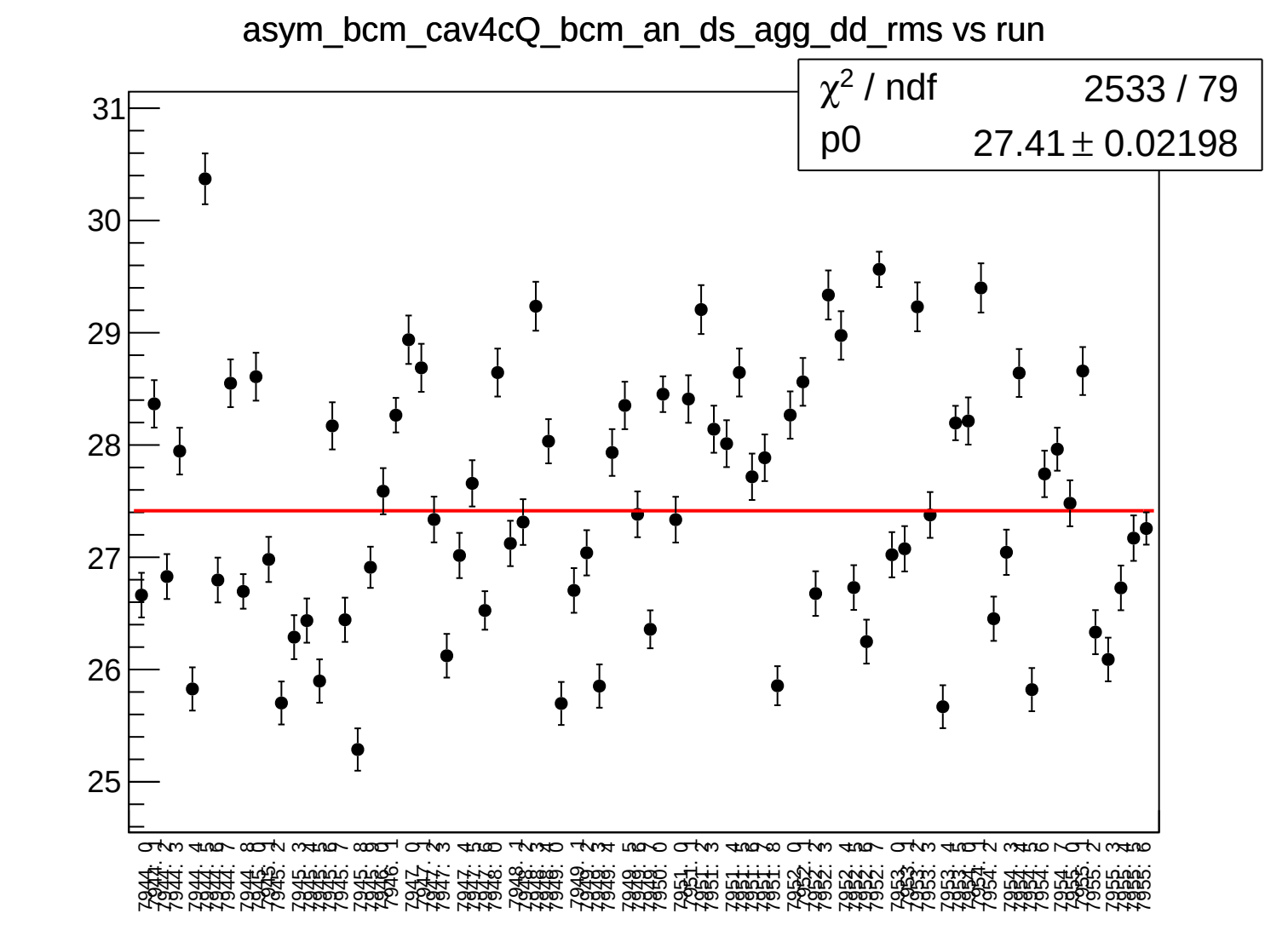

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.9 / 79
p0 52.45 ± 176.4
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 80
Mean 239
Std Dev 188.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

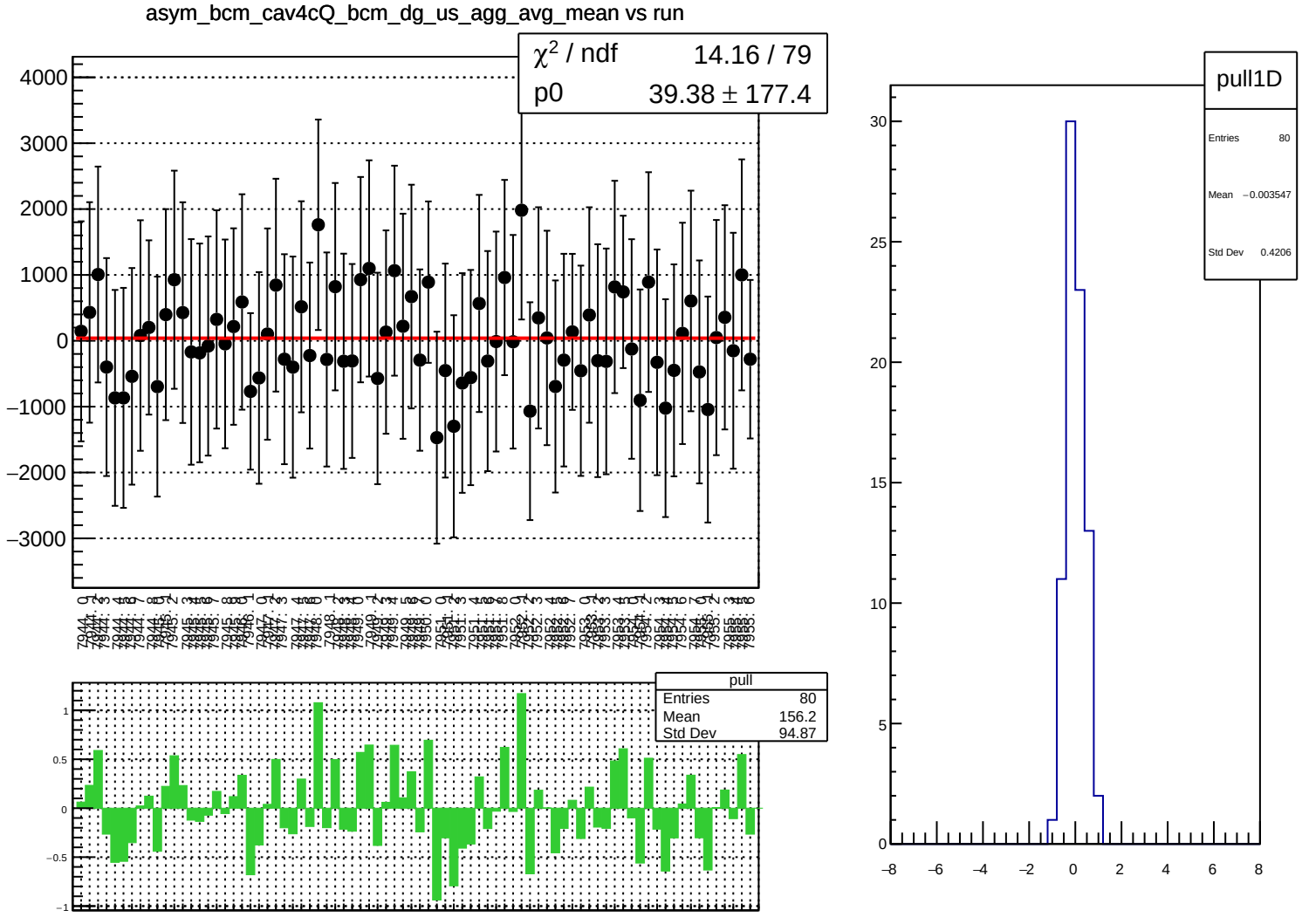

pull1D
Entries 80
Mean −0.003766
Std Dev 0.4168
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

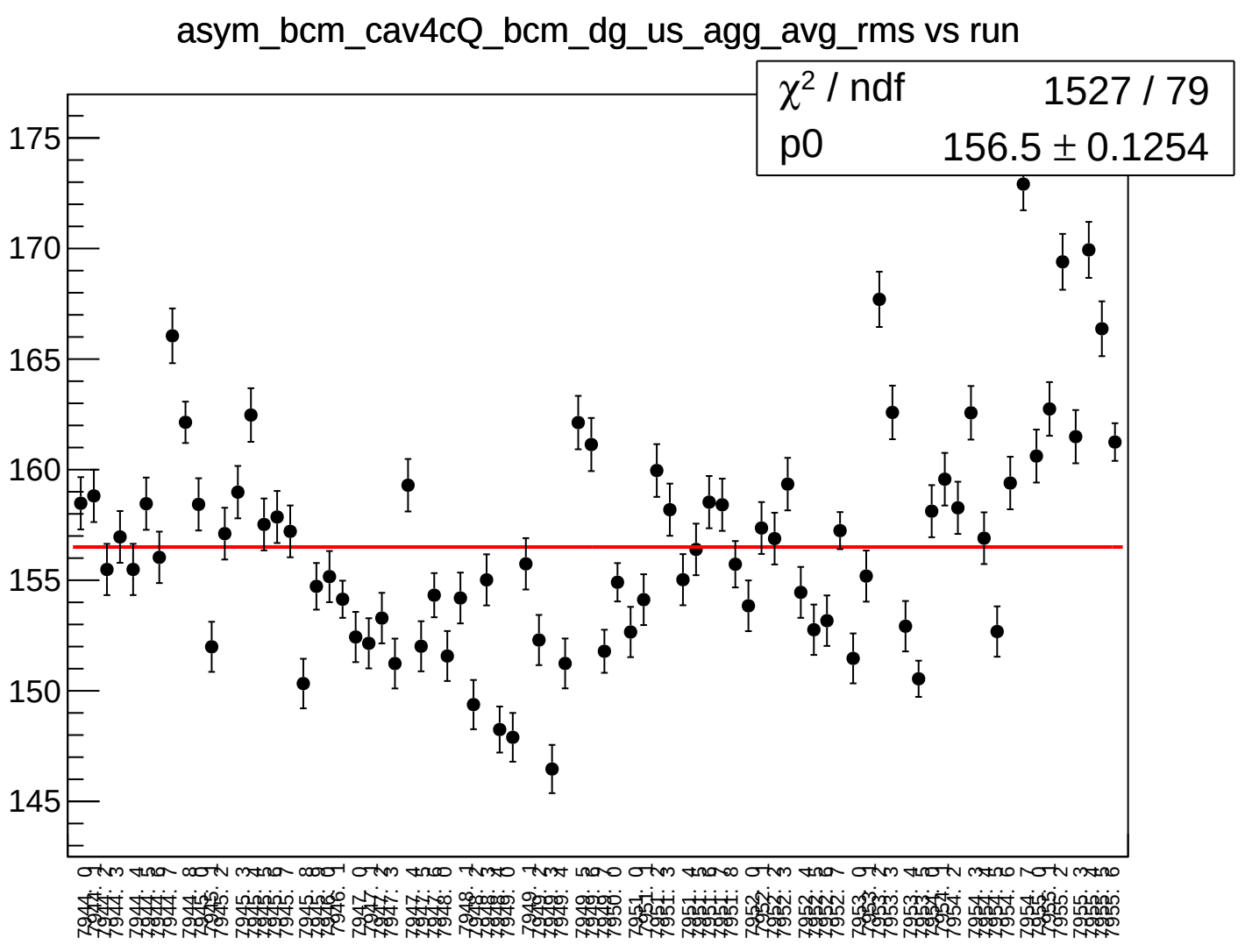

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1651 / 79
p0 155.6 ± 0.1247
175
170
165
160
155
150
145

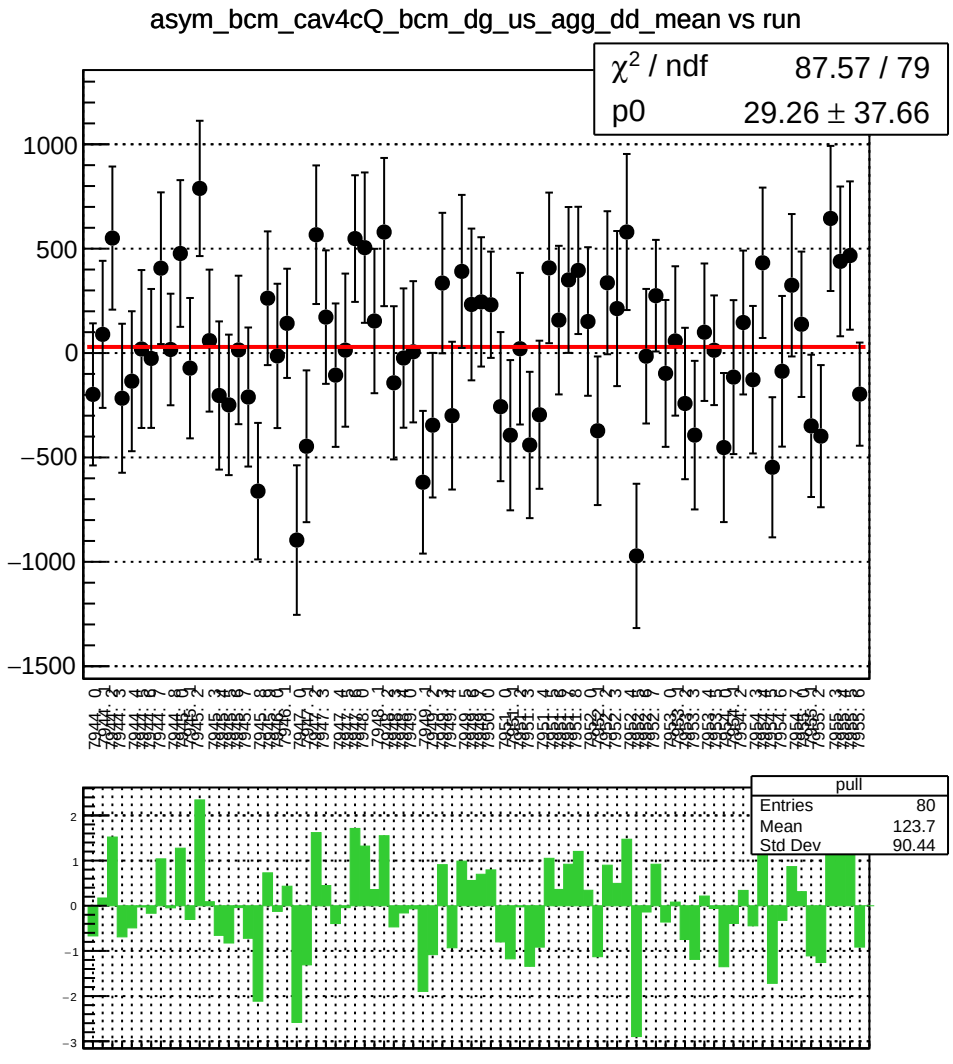

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 84.44 / 79
p0 19.2 ± 31.09
1000
500
0
−500
−1000
pull
Entries 80
Mean −23.27
Std Dev 66.91
3
2
1
0
−1
−2

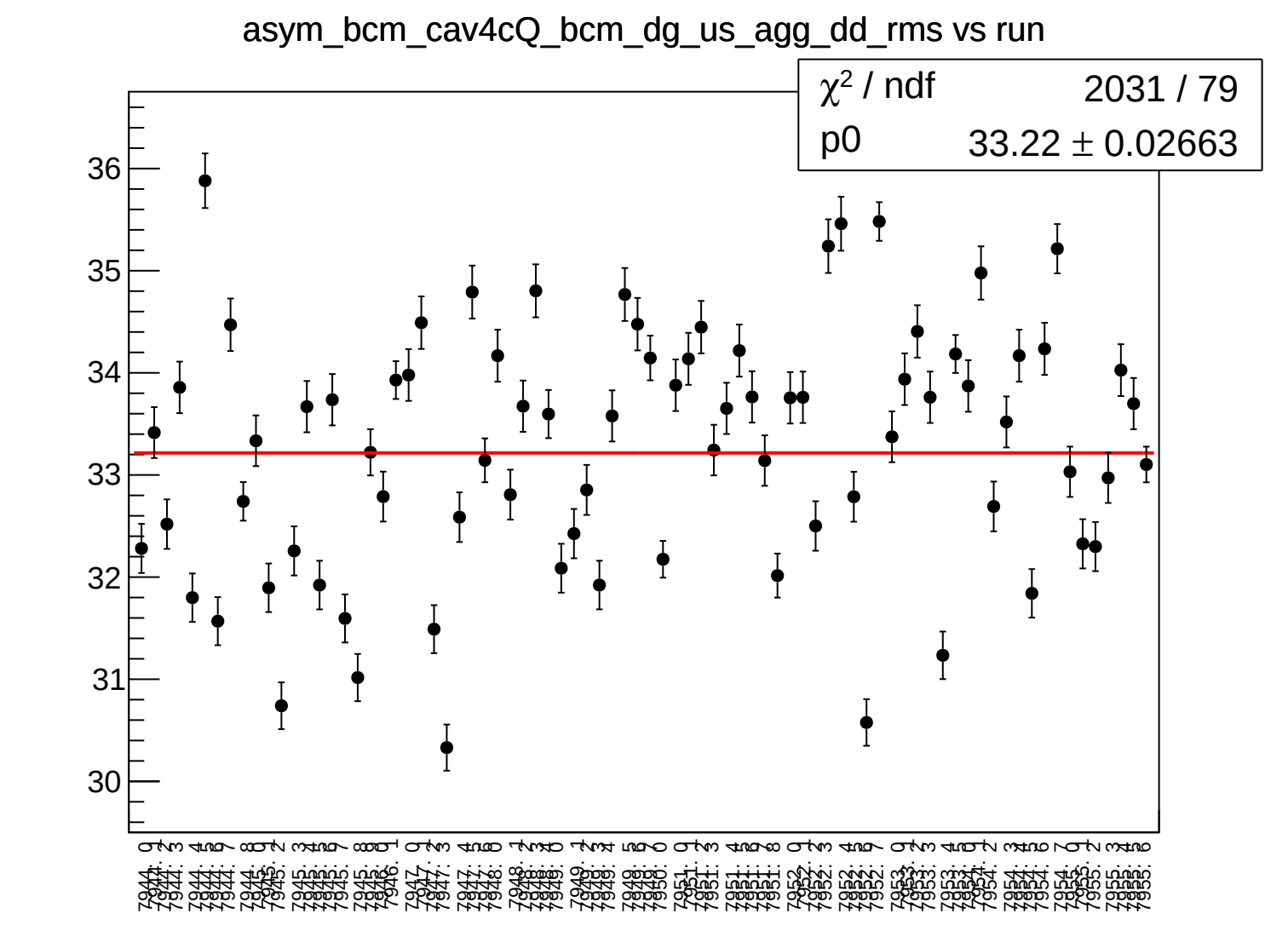

pull1D
Entries 80
Mean −0.01602
Std Dev 1.027
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

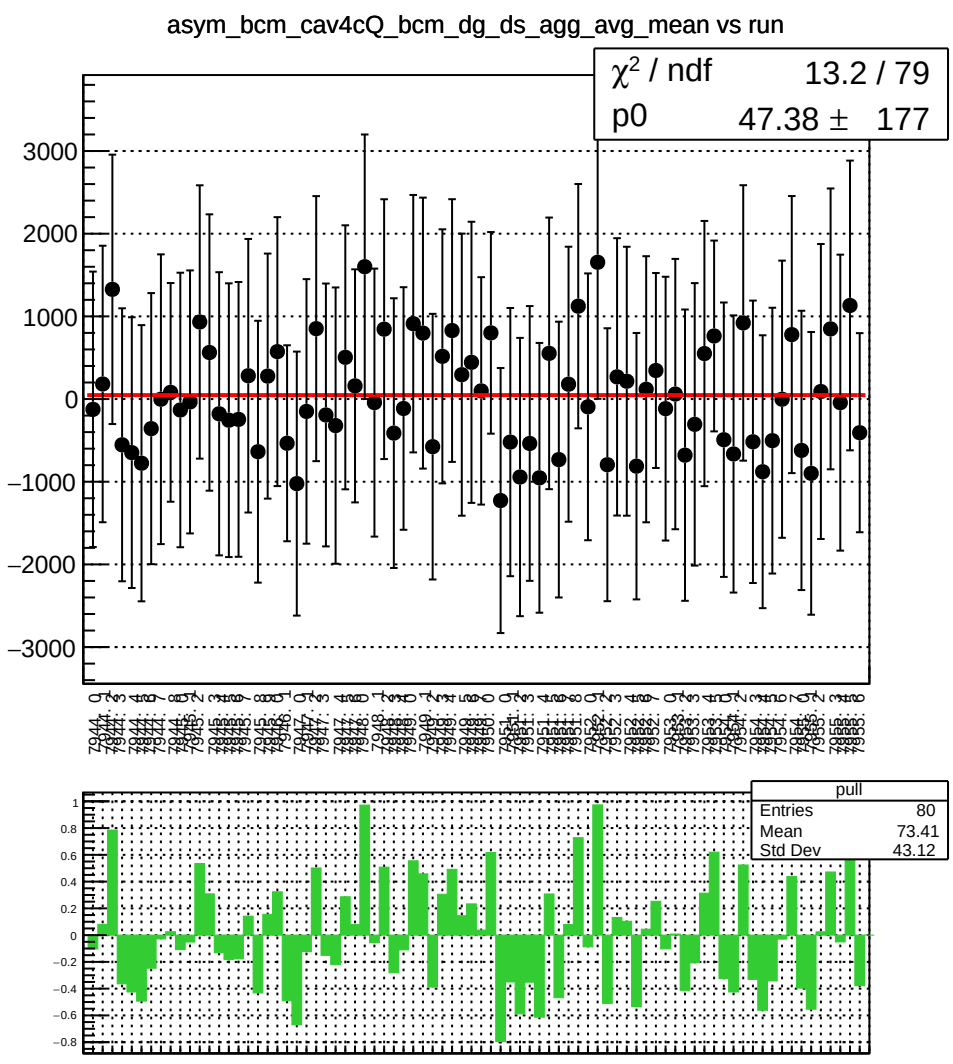

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2533 / 79
p0 27.41 ± 0.02198
31
30
29
28
27
26
25

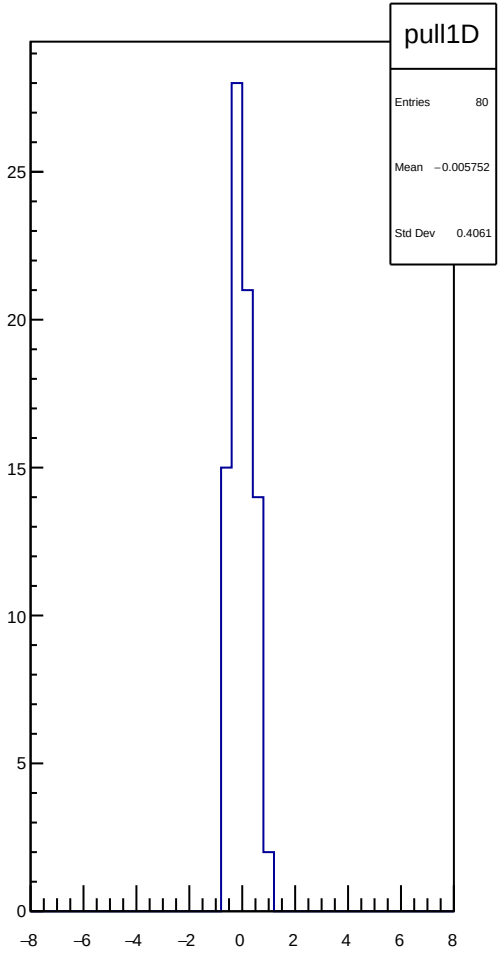

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 14.16 / 79
p0 39.38 ± 177.4
pull
Entries 80
Mean 156.2
Std Dev 94.87
pull1D
Entries 80
Mean −0.003547
Std Dev 0.4206

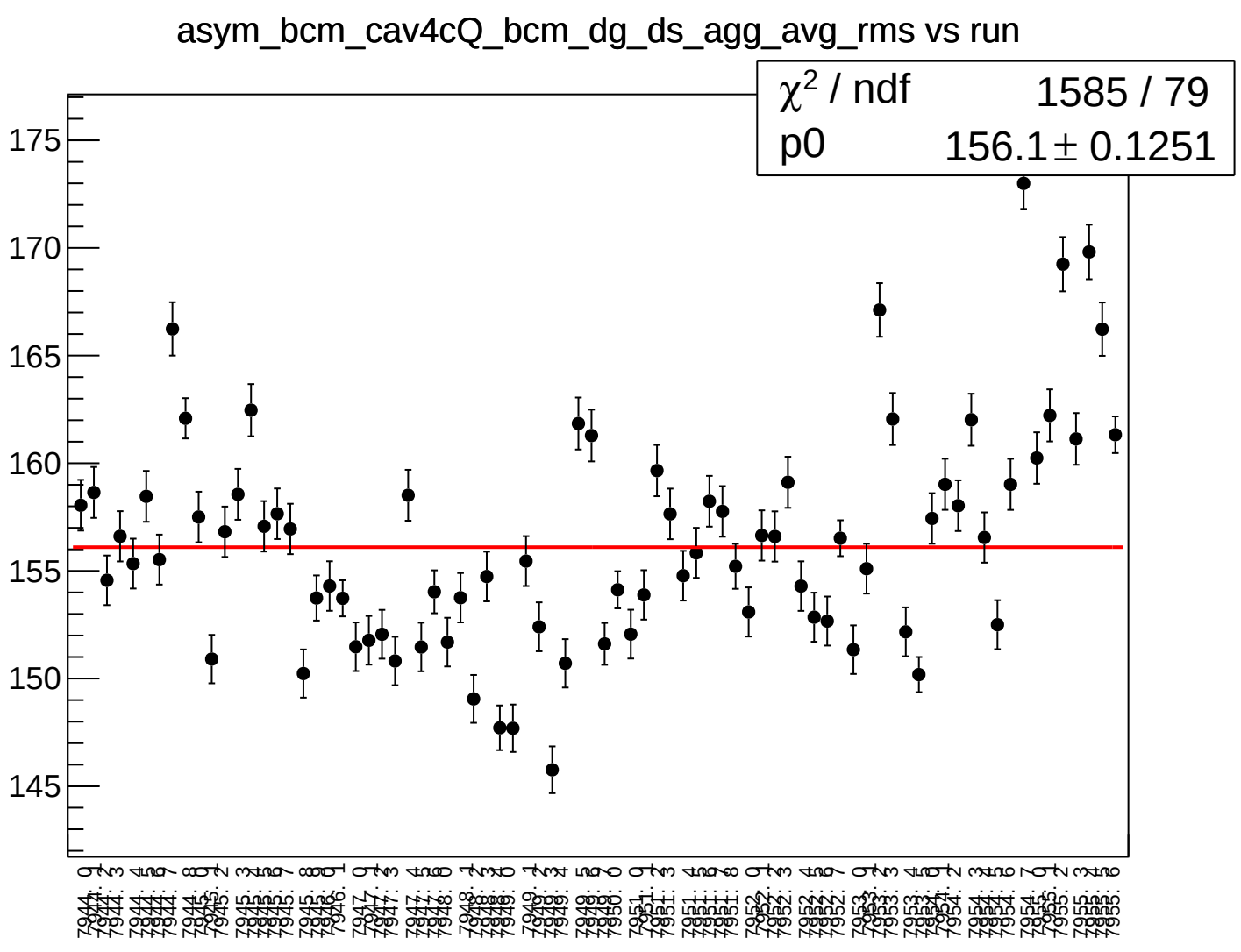

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1527 / 79
p0 156.5 ± 0.1254
175
170
165
160
155
150
145

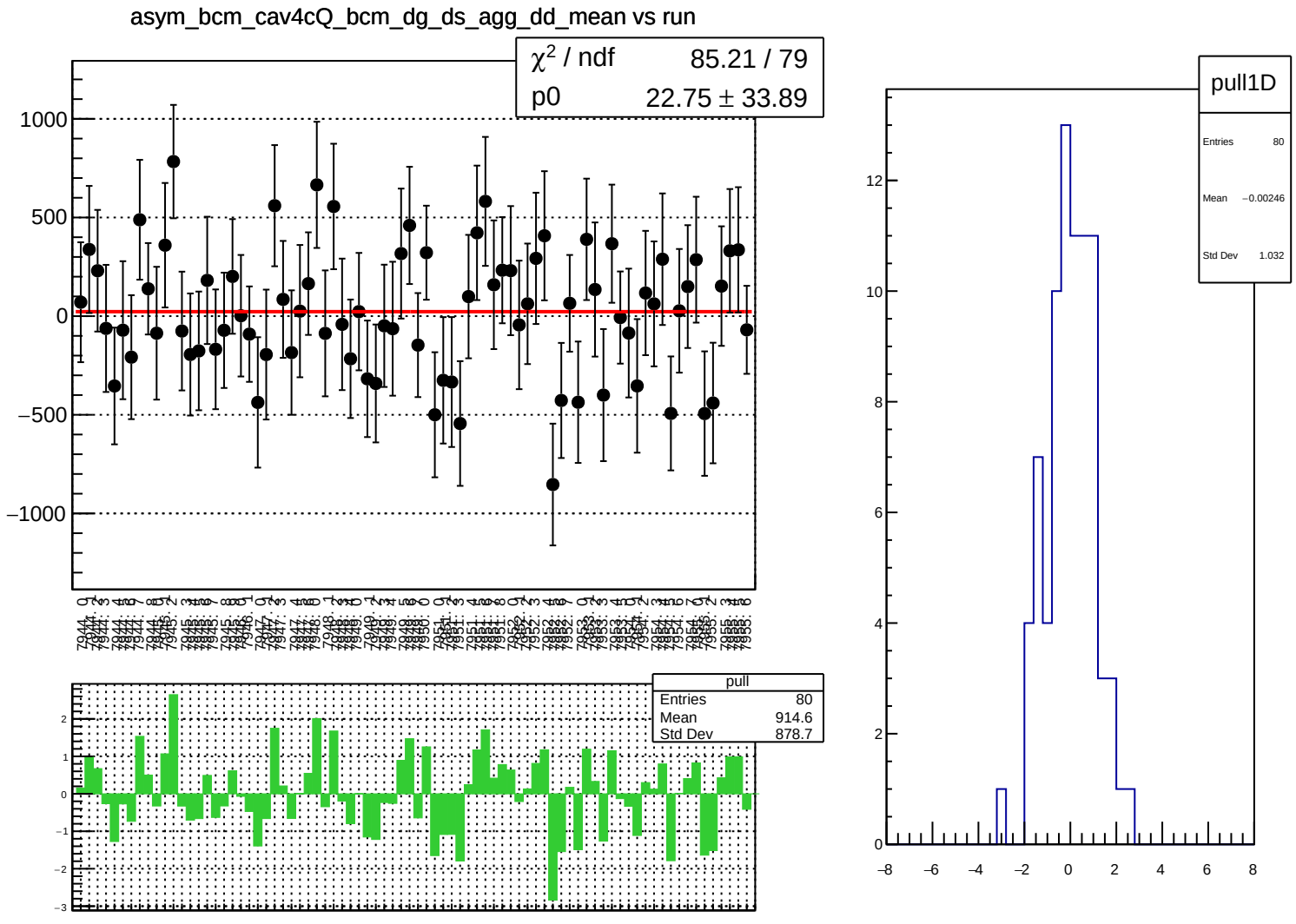

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 87.57 / 79
p0 29.26 ± 37.66
1000
500
0
−500
−1000
−1500
pull
Entries 80
Mean 123.7
Std Dev 90.44
2
1
0
−1
−2
−3
pull1D
Entries 80
Mean −0.00979
Std Dev 1.046
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

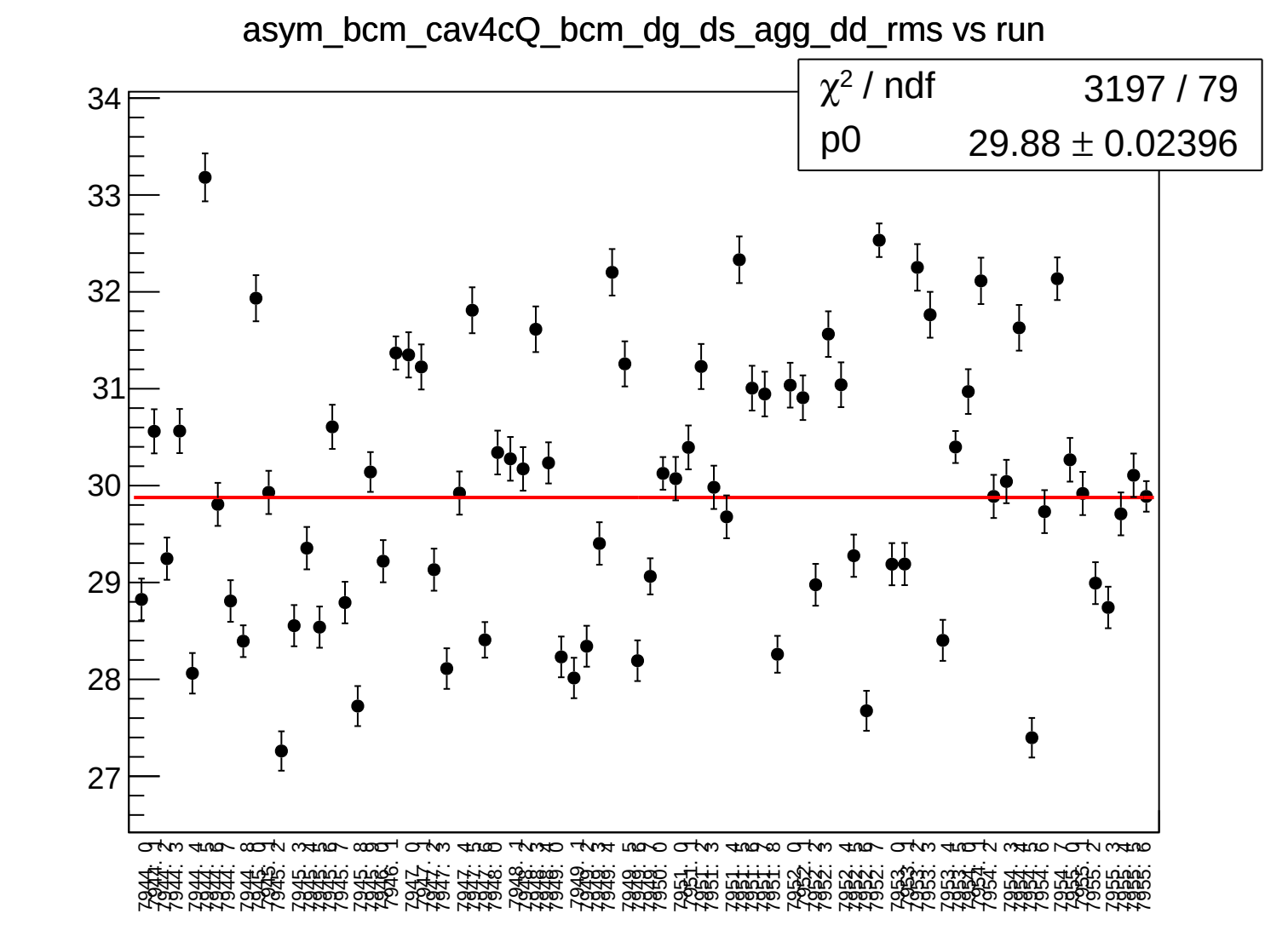

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2031 / 79
p0 33.22 ± 0.02663
36
35
34
33
32
31
30

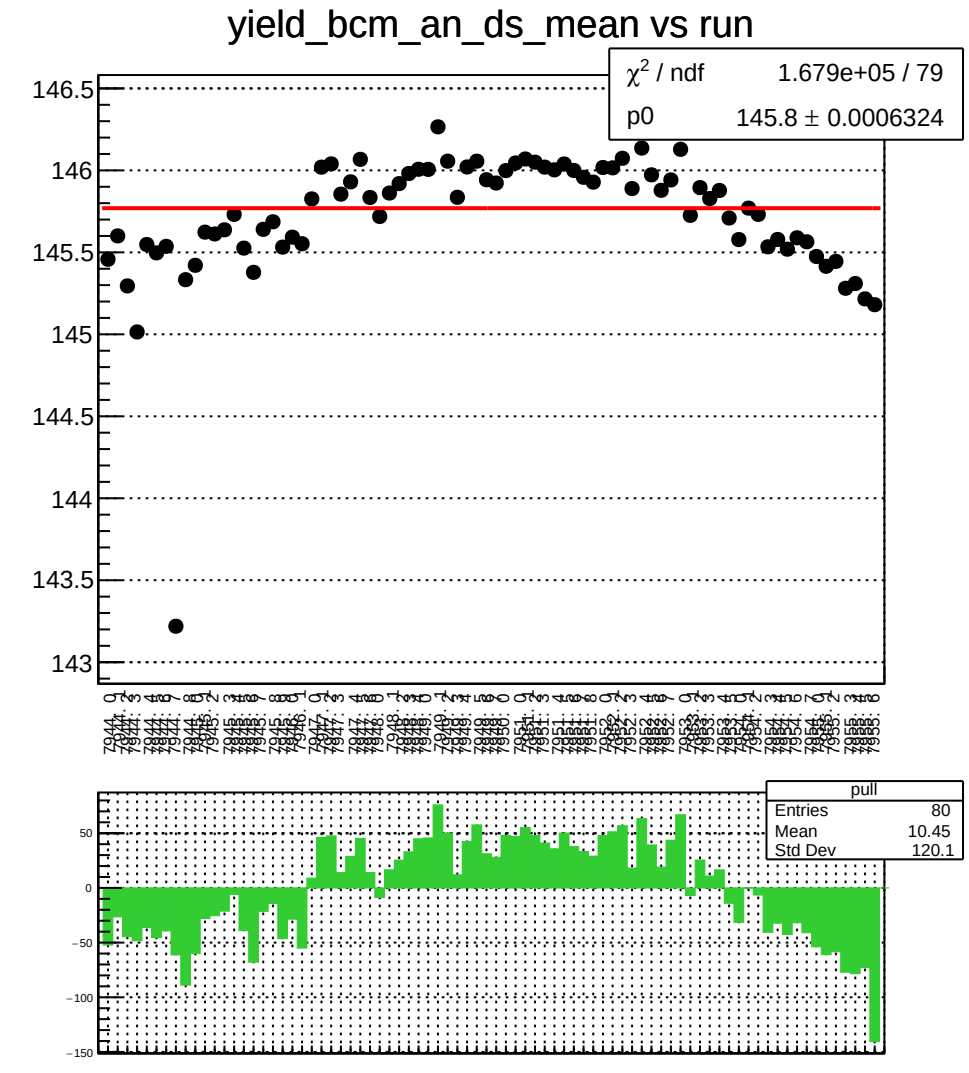

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.2 / 79
p0 47.38 ± 177
pull
Entries 80
Mean 73.41
Std Dev 43.12

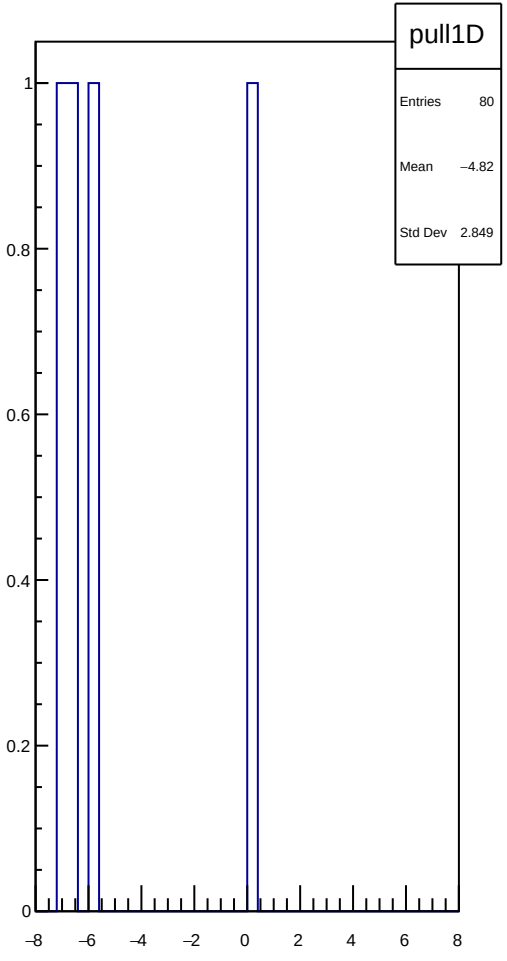

pull1D
Entries 80
Mean −0.005752
Std Dev 0.4061

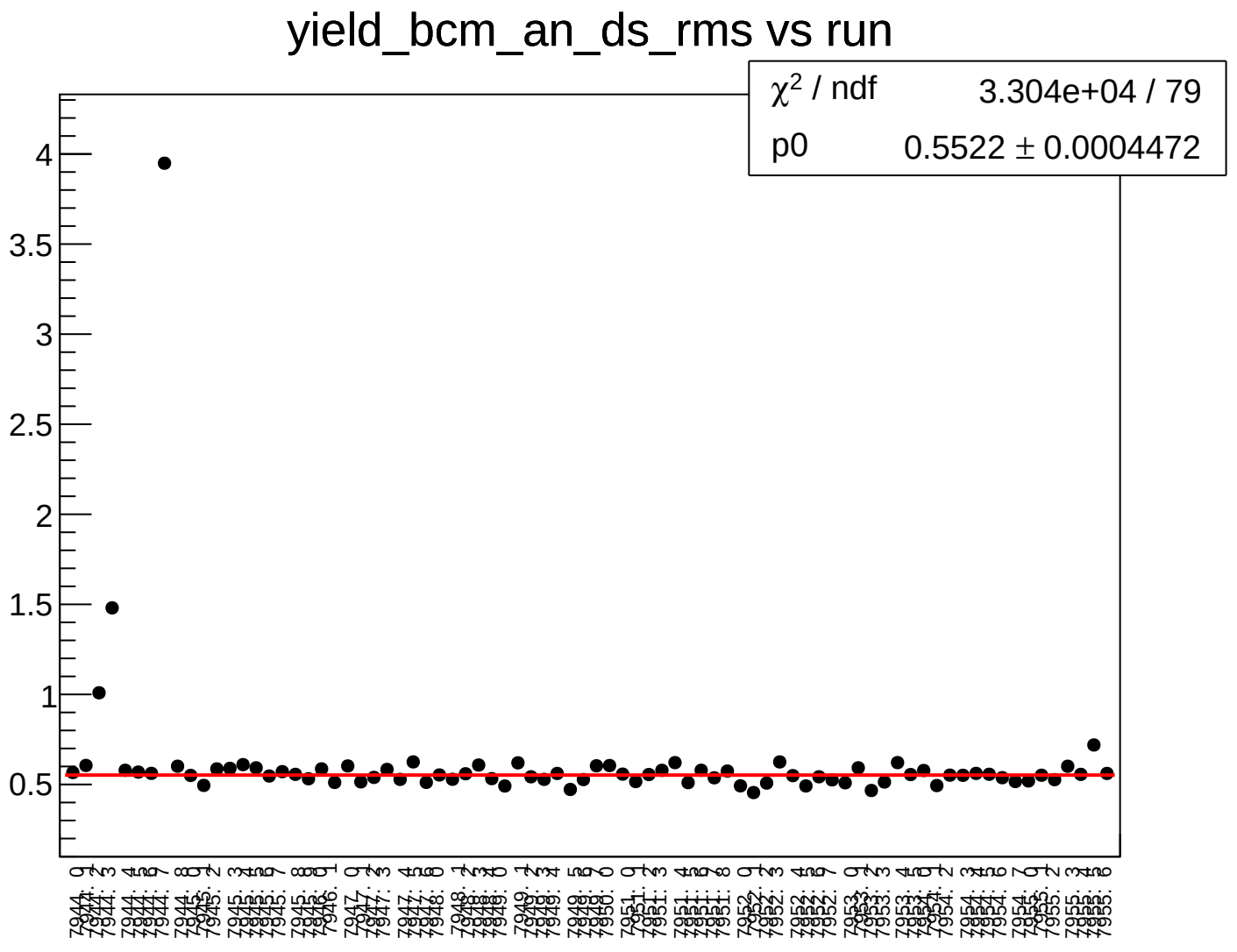

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1585 / 79
p0 156.1 ± 0.1251
175
170
165
160
155
150
145

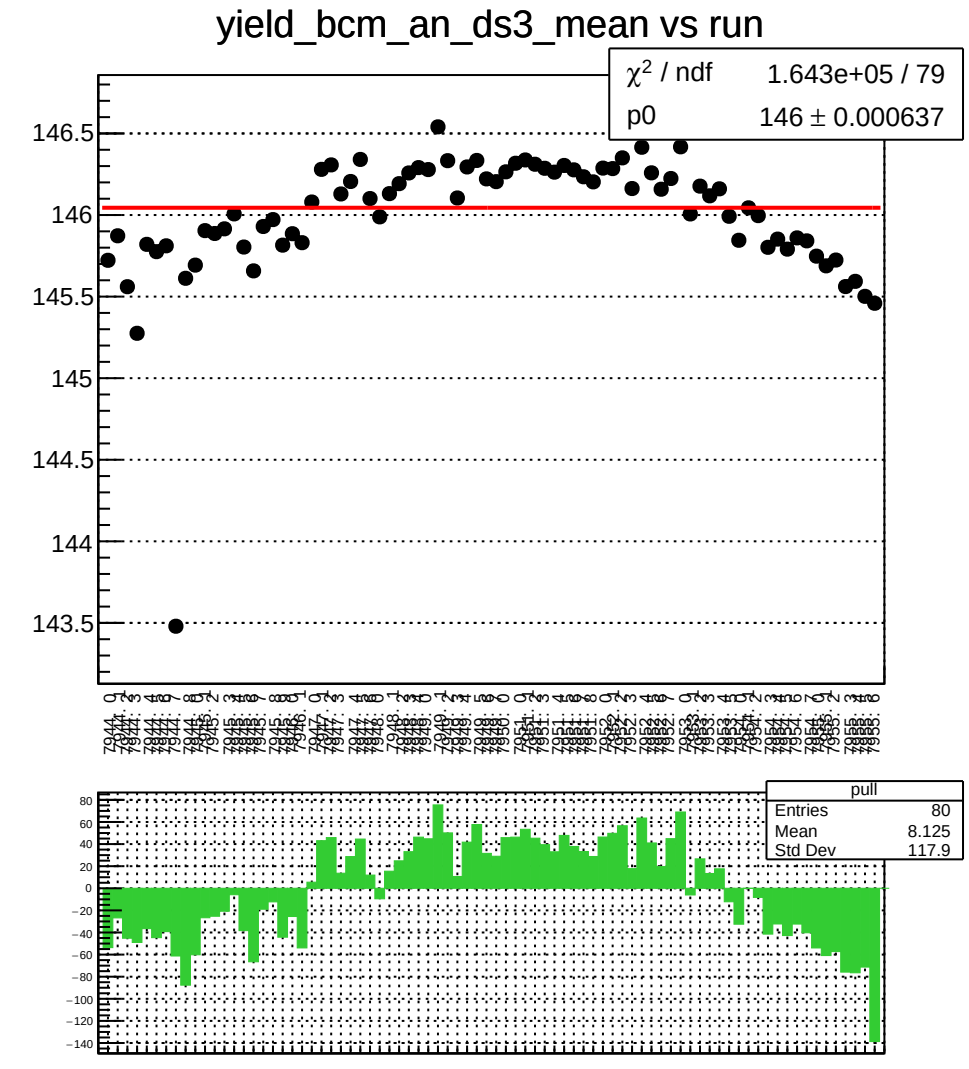

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 85.21 / 79
p0 22.75 ± 33.89
1000
500
0
−500
−1000
pull
Entries 80
Mean 914.6
Std Dev 878.7
pull1D
Entries 80
Mean −0.00246
Std Dev 1.032

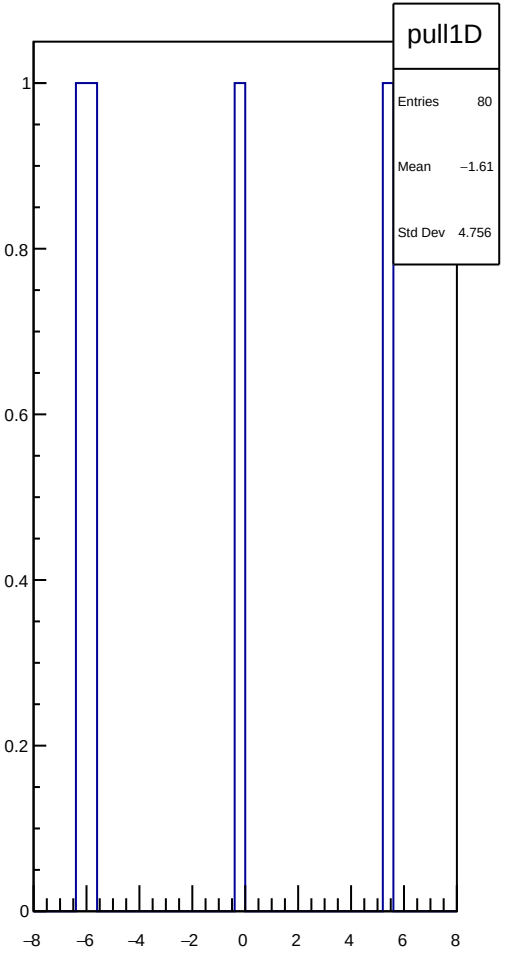

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3197 / 79
p0 29.88 ± 0.02396
34
33
32
31
30
29
28
27

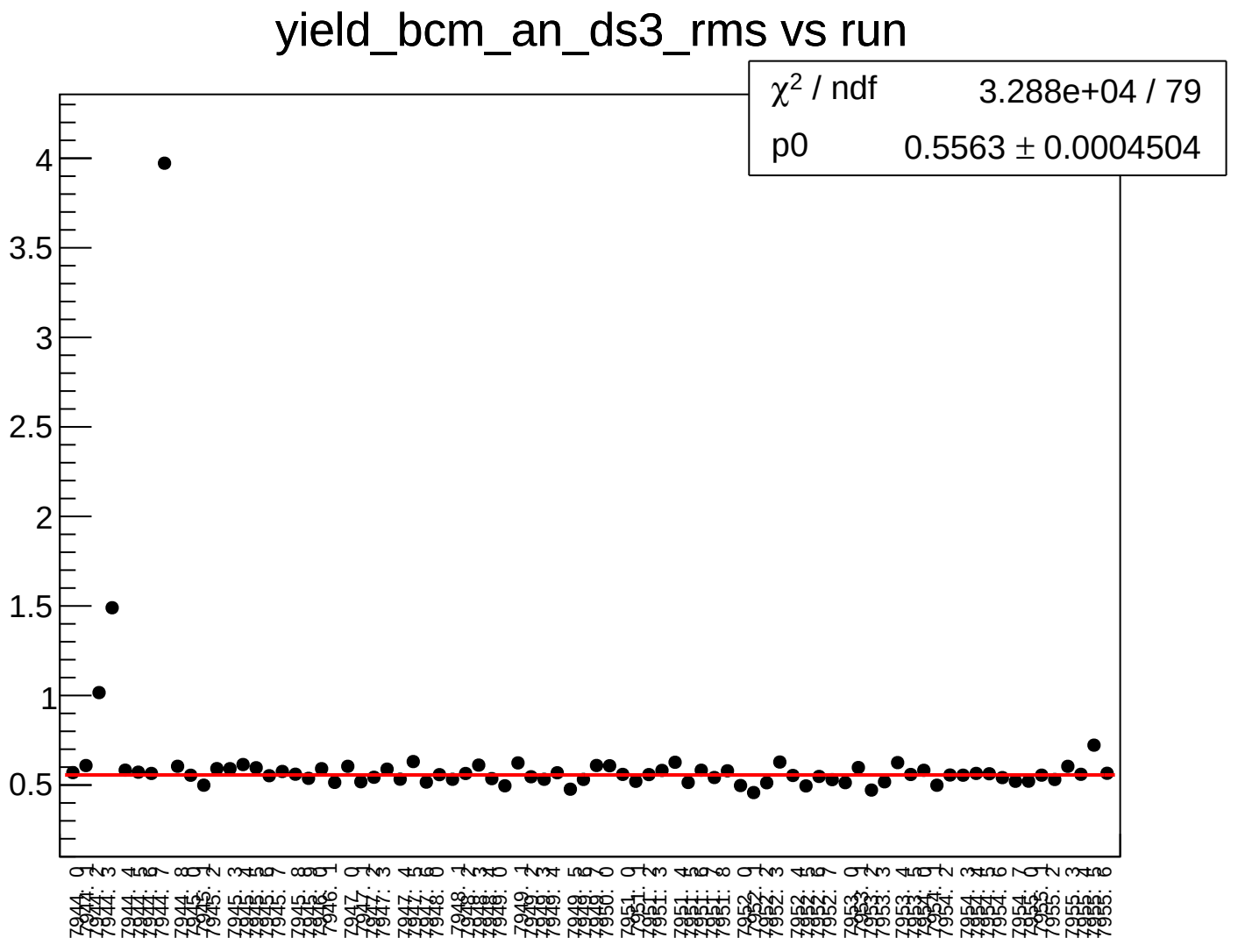

yield_bcm_an_ds_mean vs run
χ² / ndf 1.679e+05 / 79
p0 145.8 ± 0.0006324
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 80
Mean 10.45
Std Dev 120.1
50
0
−50
−100
−150

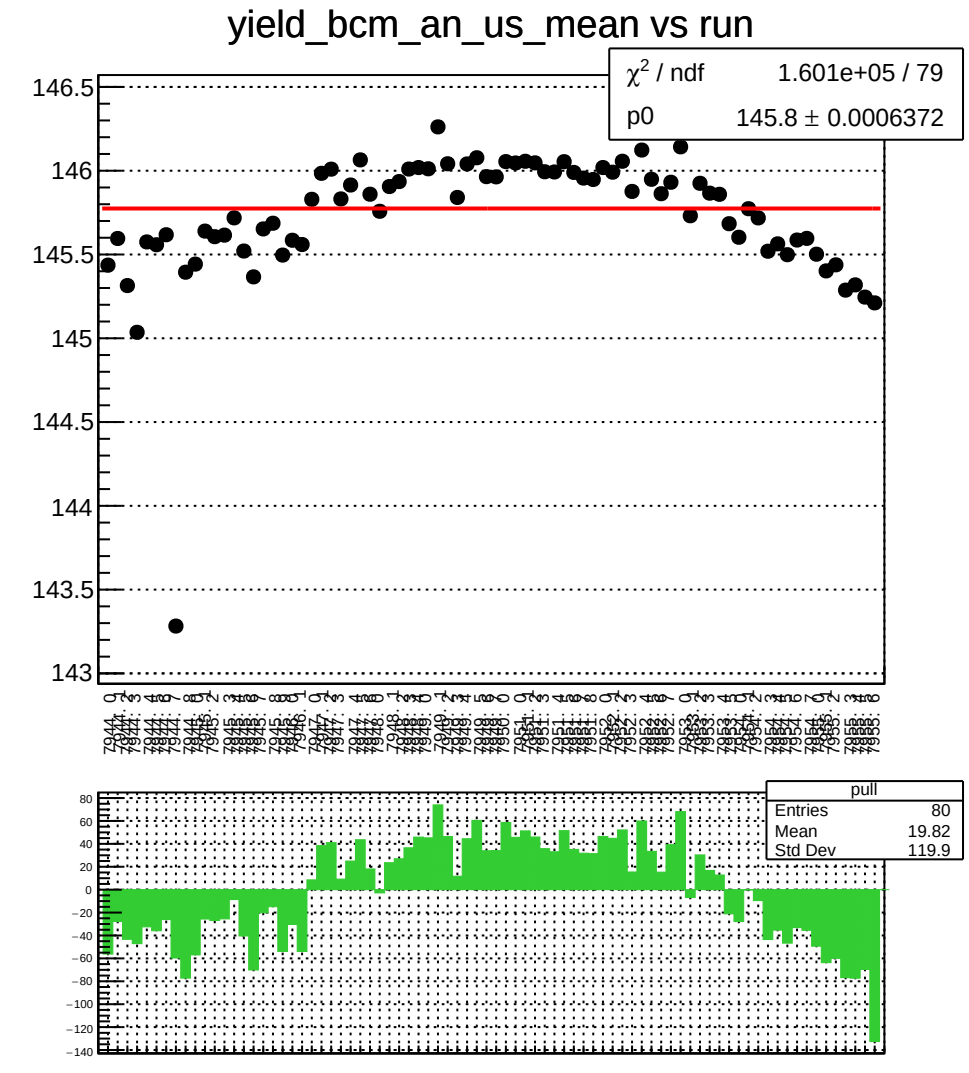

pull1D
Entries 80
Mean −4.82
Std Dev 2.849
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

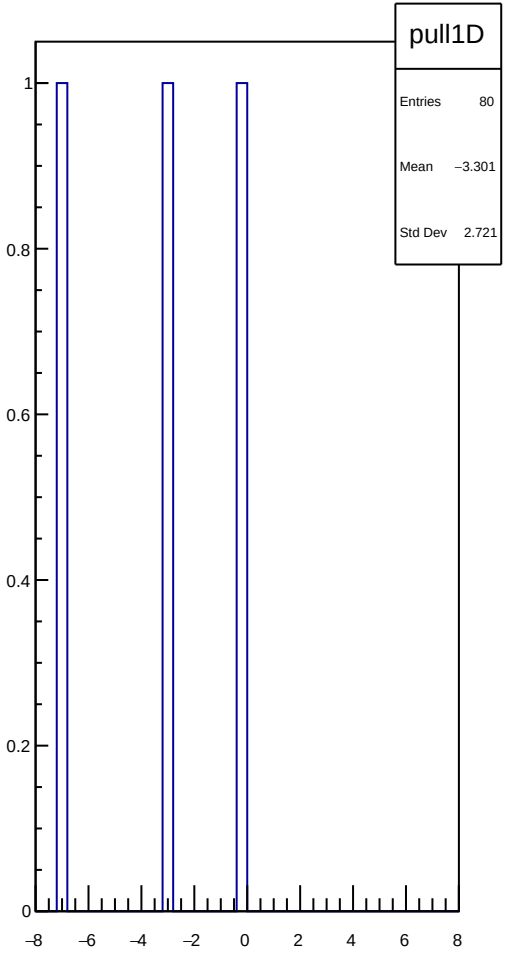

yield_bcm_an_ds_rms vs run
χ^2 / ndf 3.304e+04 / 79
p0 0.5522 ± 0.0004472
4
3.5
3
2.5
2
1.5
1
0.5

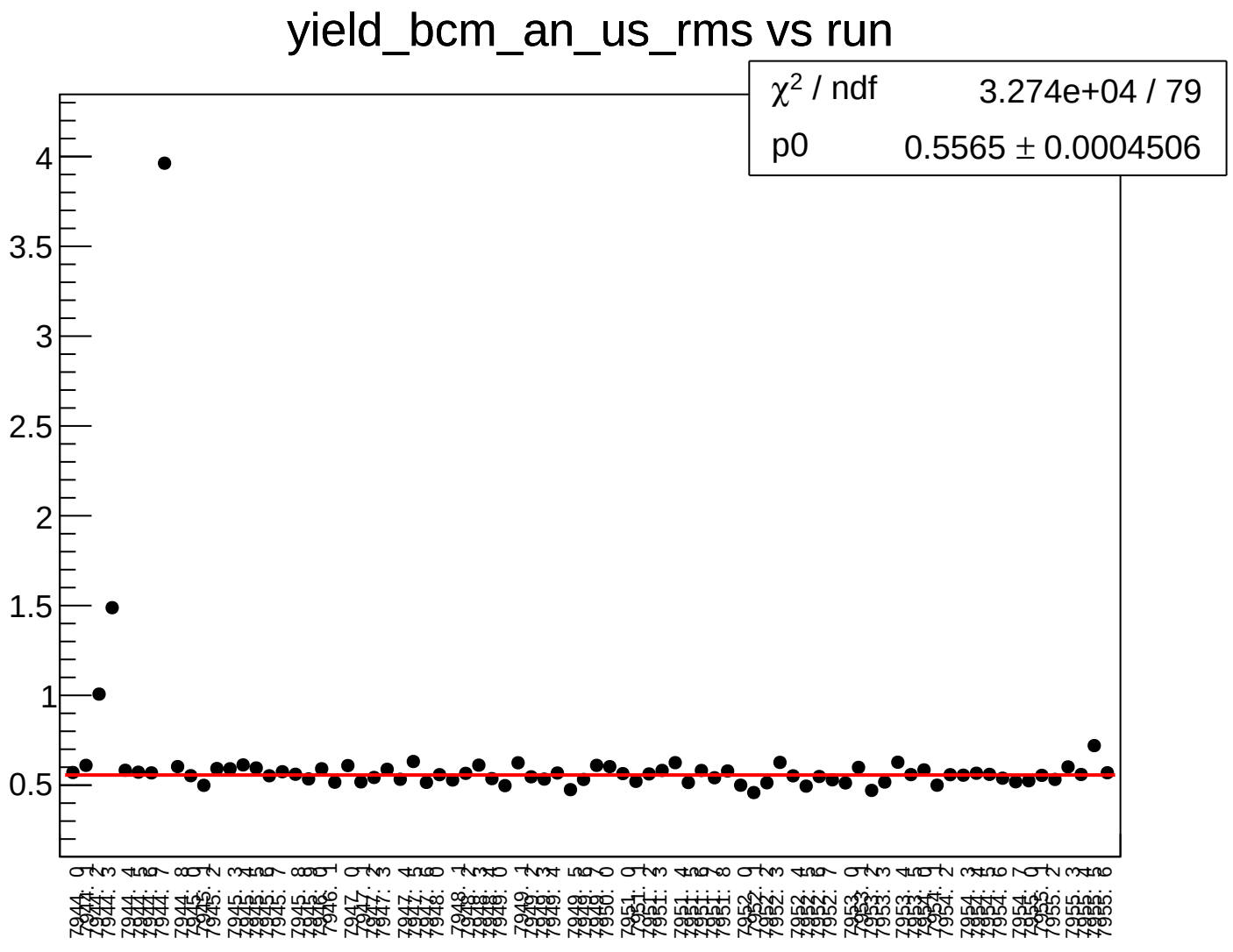

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.643e+05 / 79
p0 146 ± 0.000637
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 80
Mean 8.125
Std Dev 117.9
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

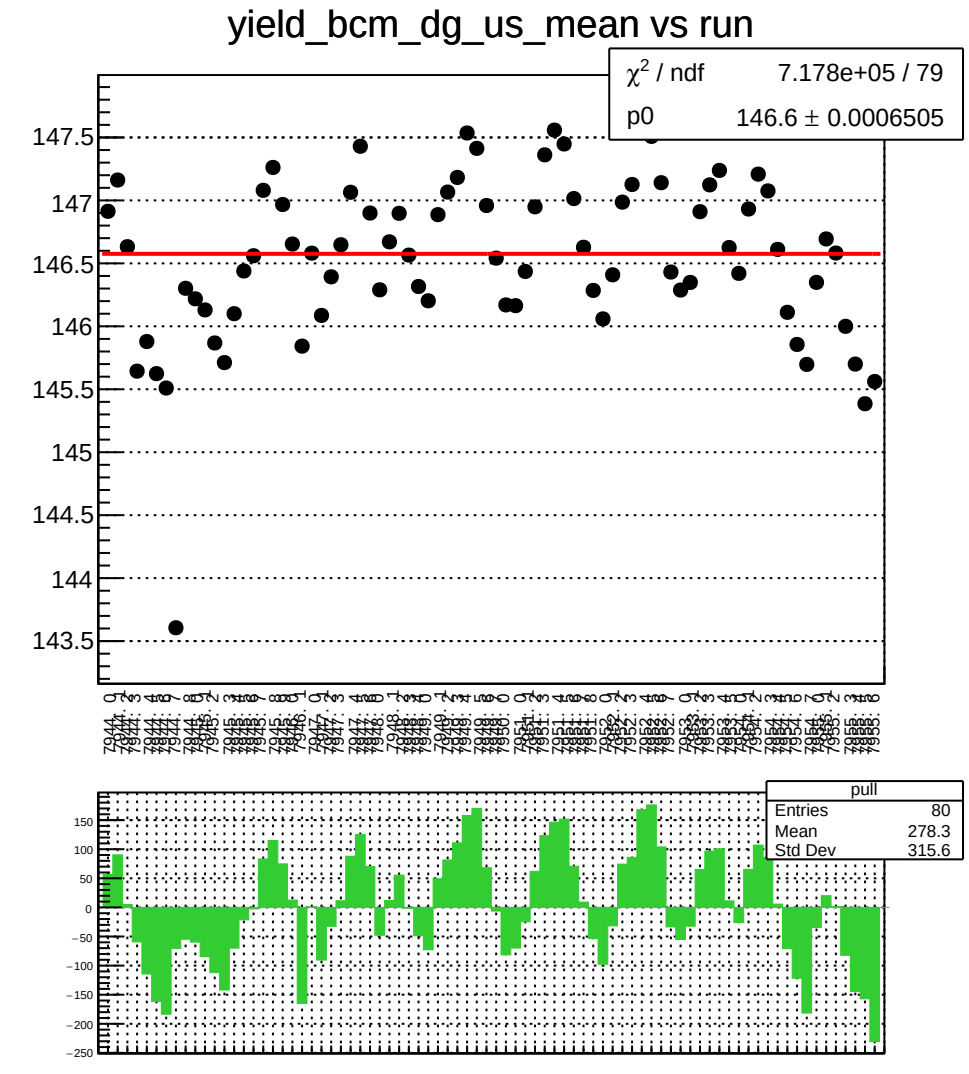

pull1D
Entries 80
Mean −1.61
Std Dev 4.756
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

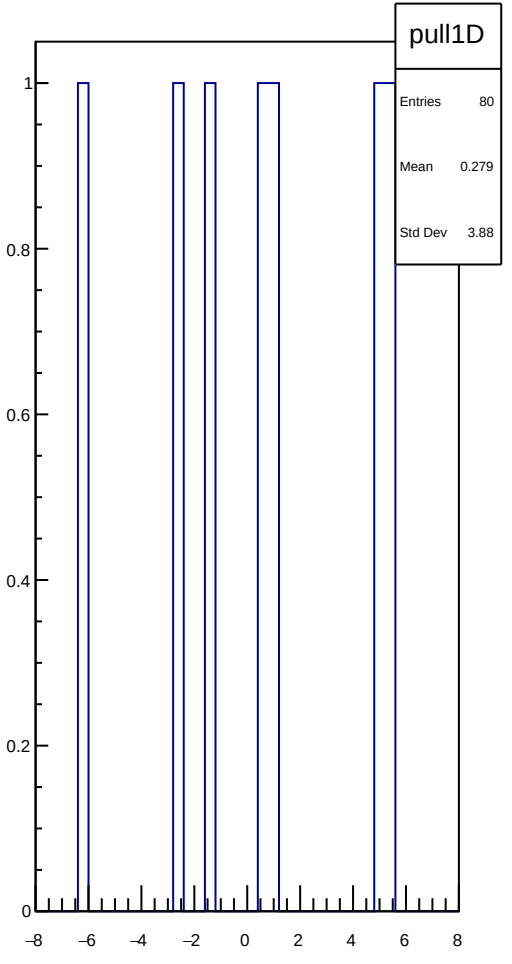

yield_bcm_an_ds3_rms vs run
χ2 / ndf 3.288e+04 / 79
p0 0.5563 ± 0.0004504
4
3.5
3
2.5
2
1.5
1
0.5

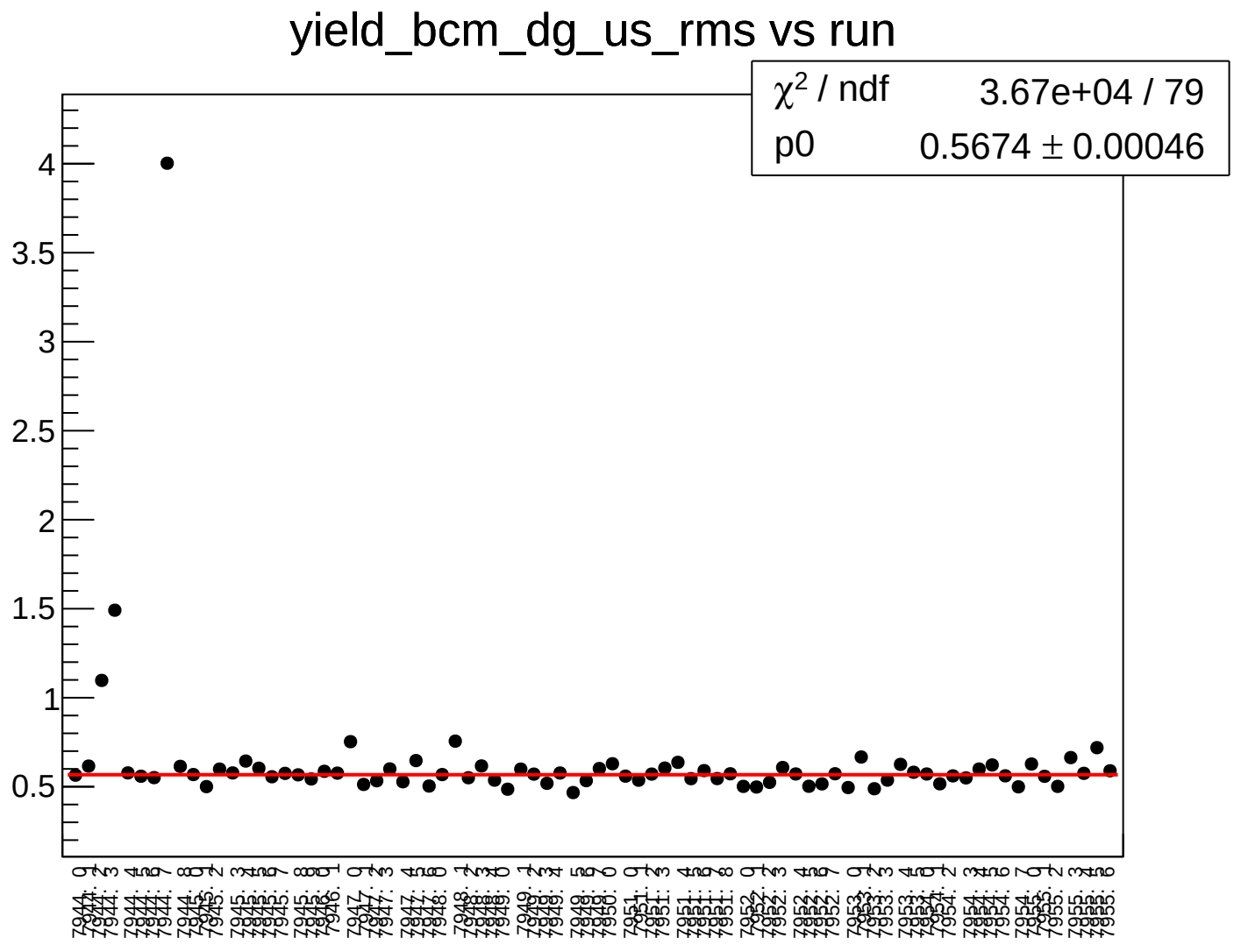

yield_bcm_an_us_mean vs run
χ² / ndf 1.601e+05 / 79
p0 145.8 ± 0.0006372
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 80
Mean 19.82
Std Dev 119.9
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

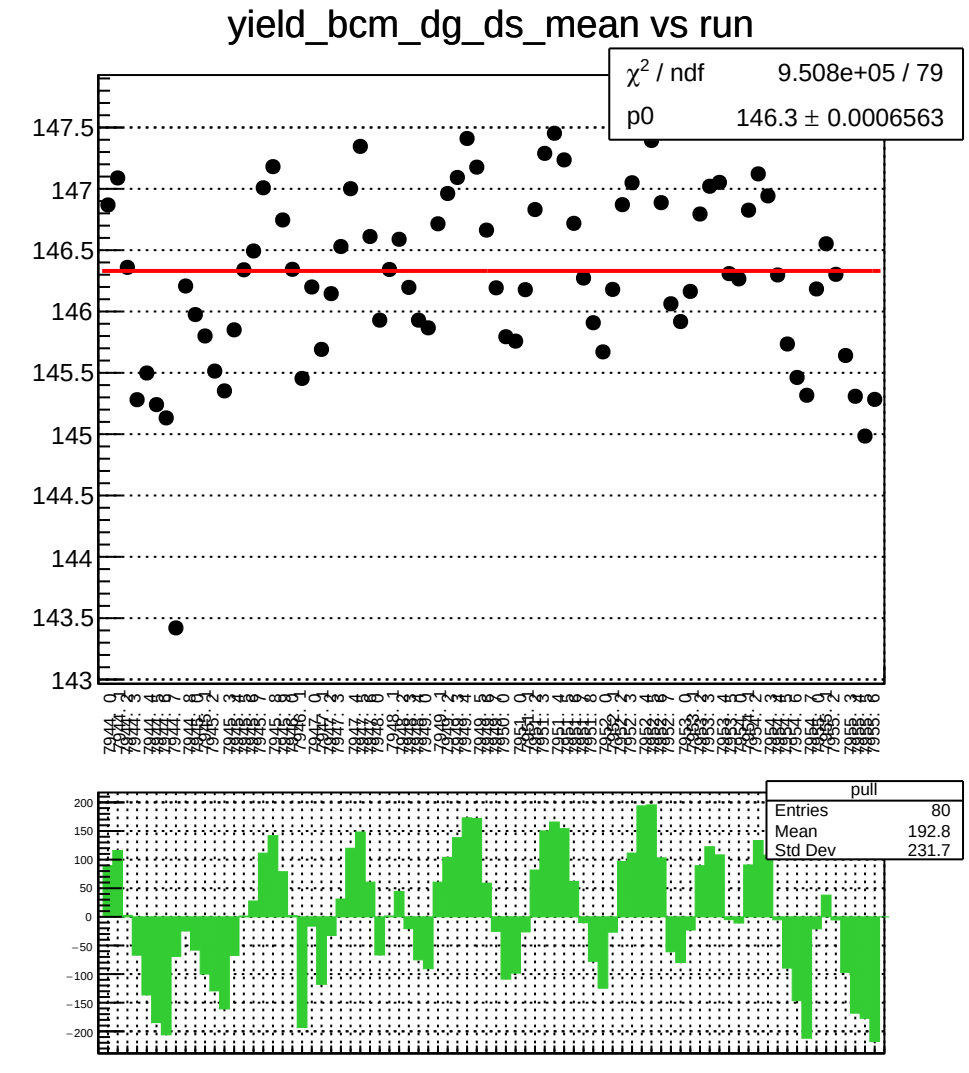

pull1D
Entries 80
Mean −3.301
Std Dev 2.721
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

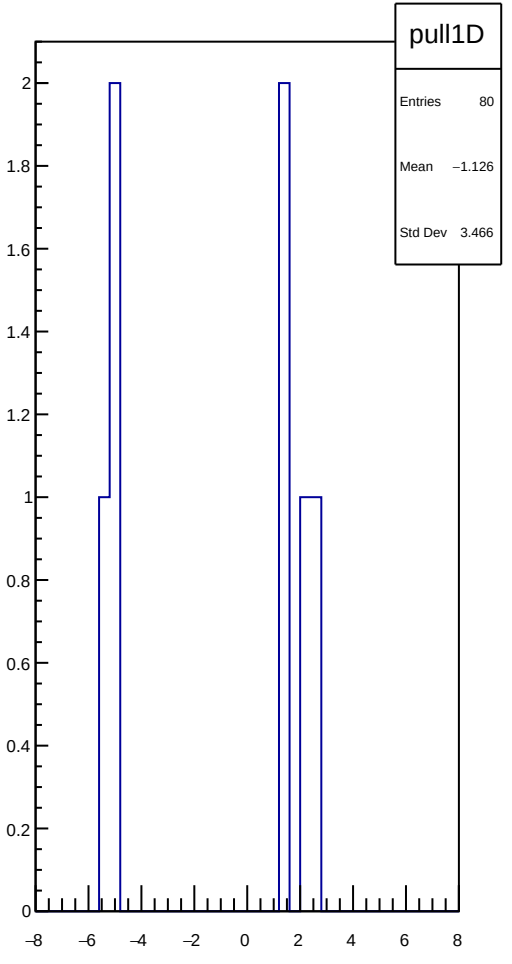

yield_bcm_an_us_rms vs run
χ² / ndf 3.274e+04 / 79
p0 0.5565 ± 0.0004506
4
3.5
3
2.5
2
1.5
1
0.5

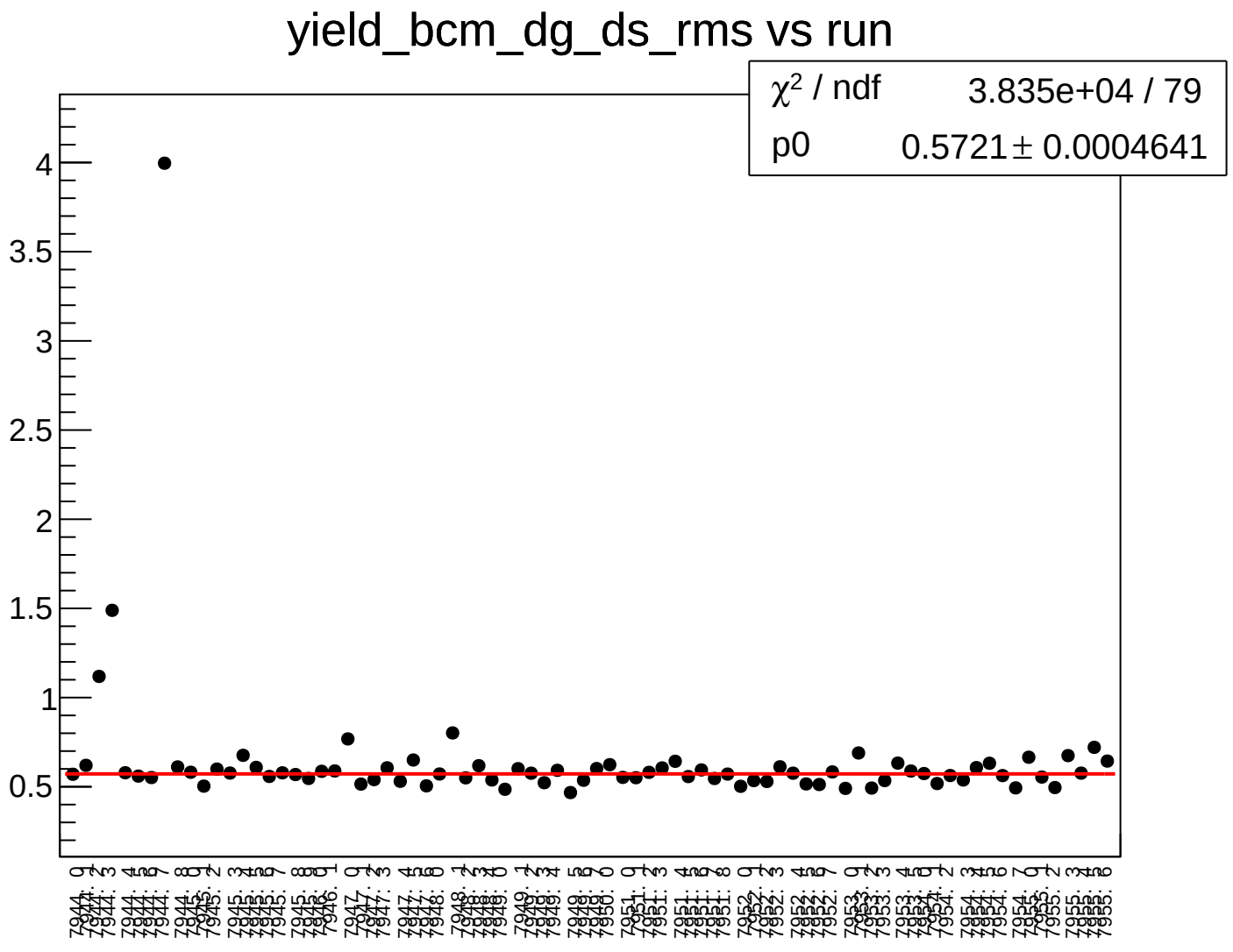

yield_bcm_dg_us_mean vs run
χ² / ndf 7.178e+05 / 79
p0 146.6 ± 0.0006505
147.5
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 80
Mean 278.3
Std Dev 315.6
150
100
50
0
−50
−100
−150
−200
−250

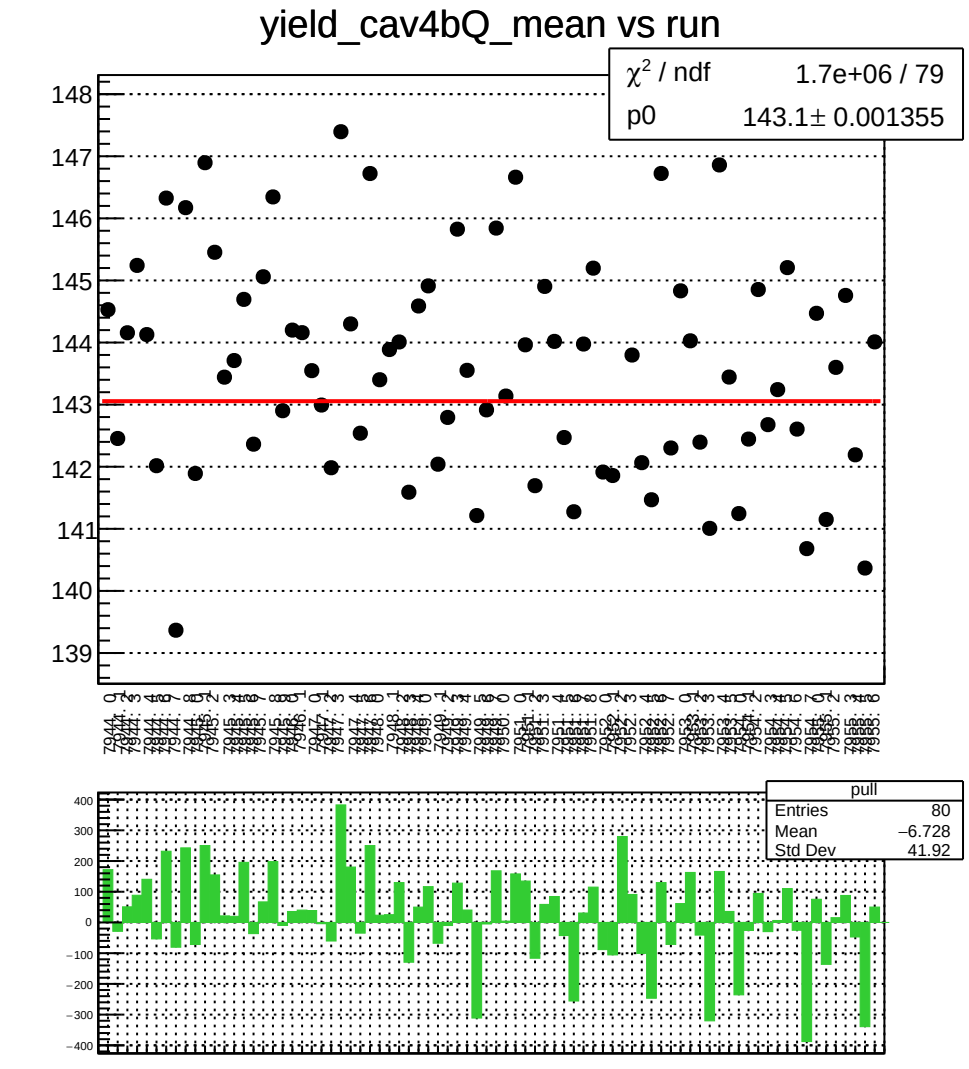

pull1D
Entries 80
Mean 0.279
Std Dev 3.88
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

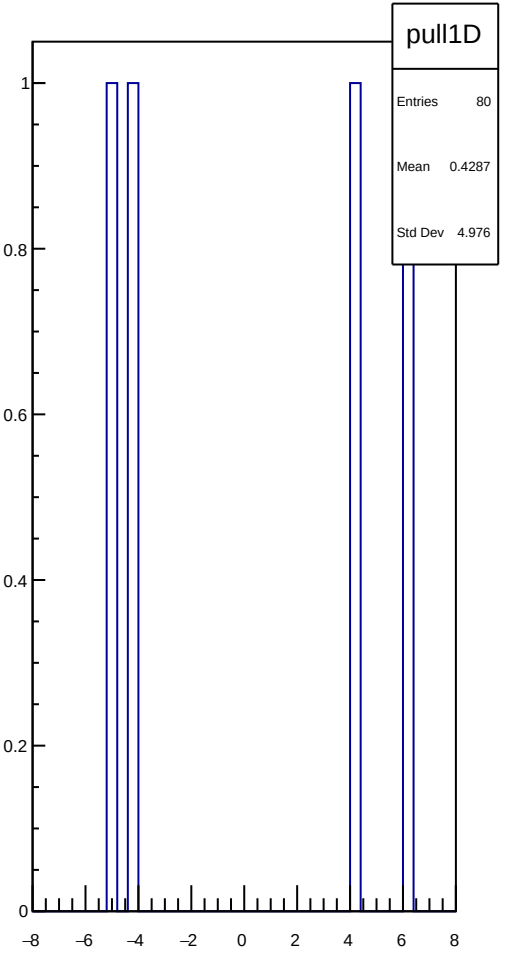

yield_bcm_dg_us_rms vs run
χ² / ndf 3.67e+04 / 79
p0 0.5674 ± 0.00046
4
3.5
3
2.5
2
1.5
1
0.5

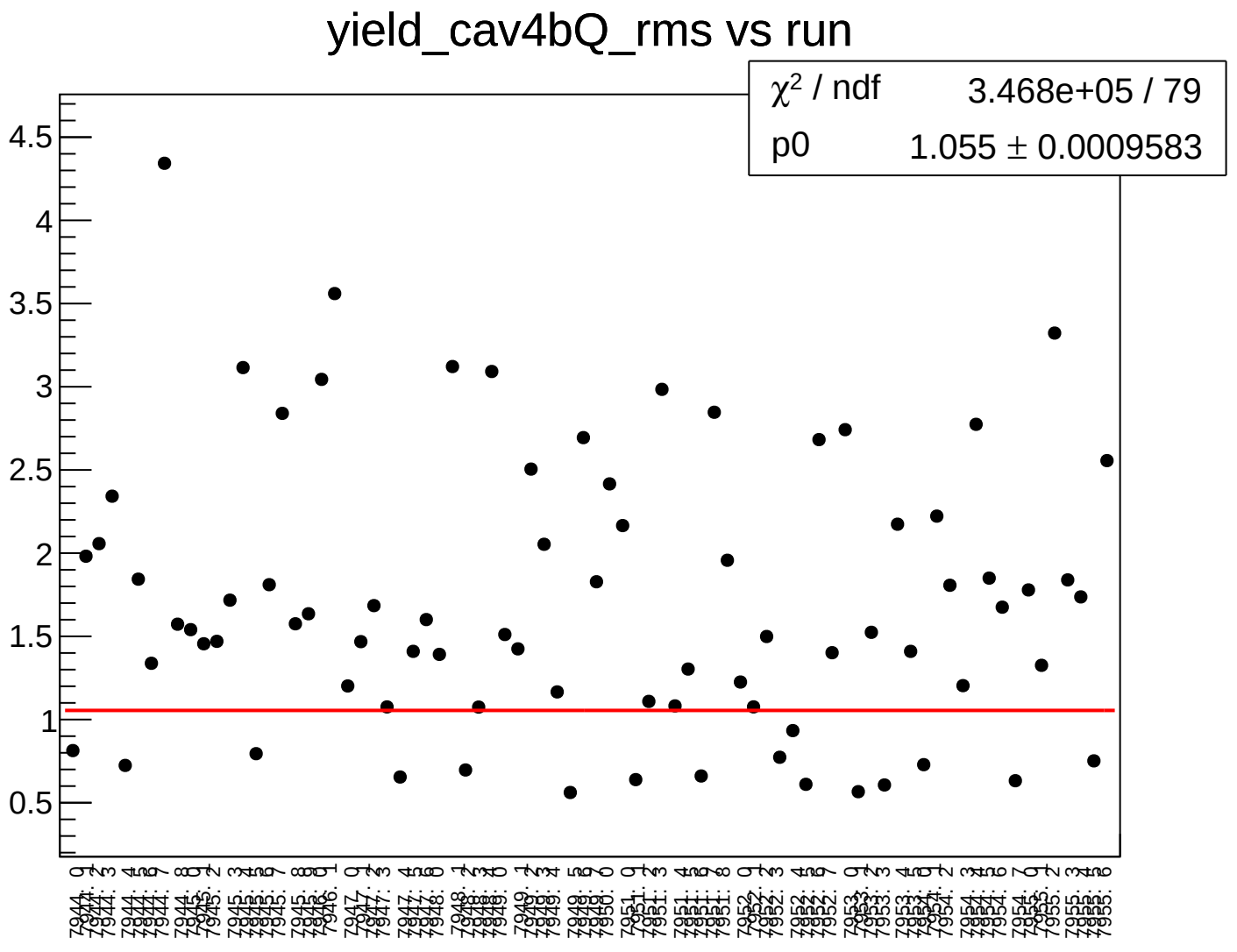

yield_bcm_dg_ds_mean vs run
χ² / ndf 9.508e+05 / 79
p0 146.3 ± 0.0006563
147.5
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 80
Mean 192.8
Std Dev 231.7
200
150
100
50
0
−50
−100
−150
−200

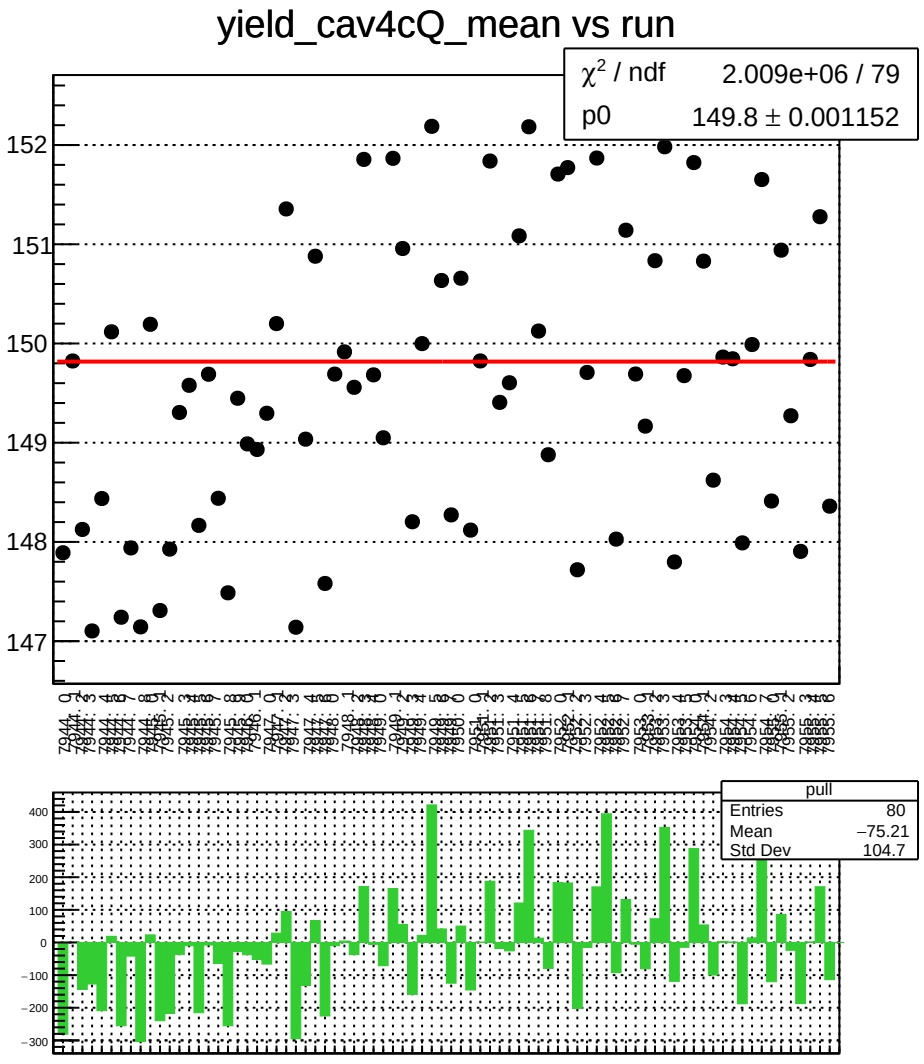

pull1D
Entries 80
Mean −1.126
Std Dev 3.466
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

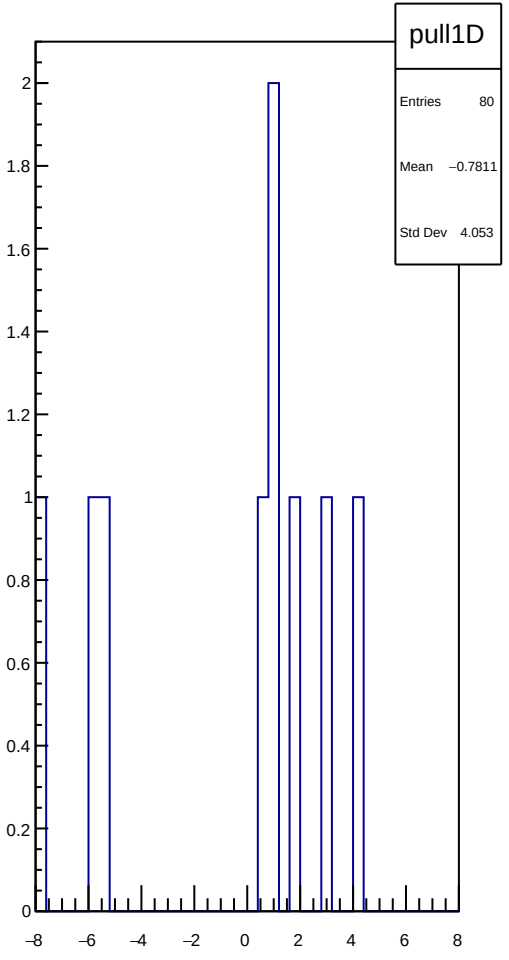

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.835e+04 / 79
p0 0.5721 ± 0.0004641
4
3.5
3
2.5
2
1.5
1
0.5

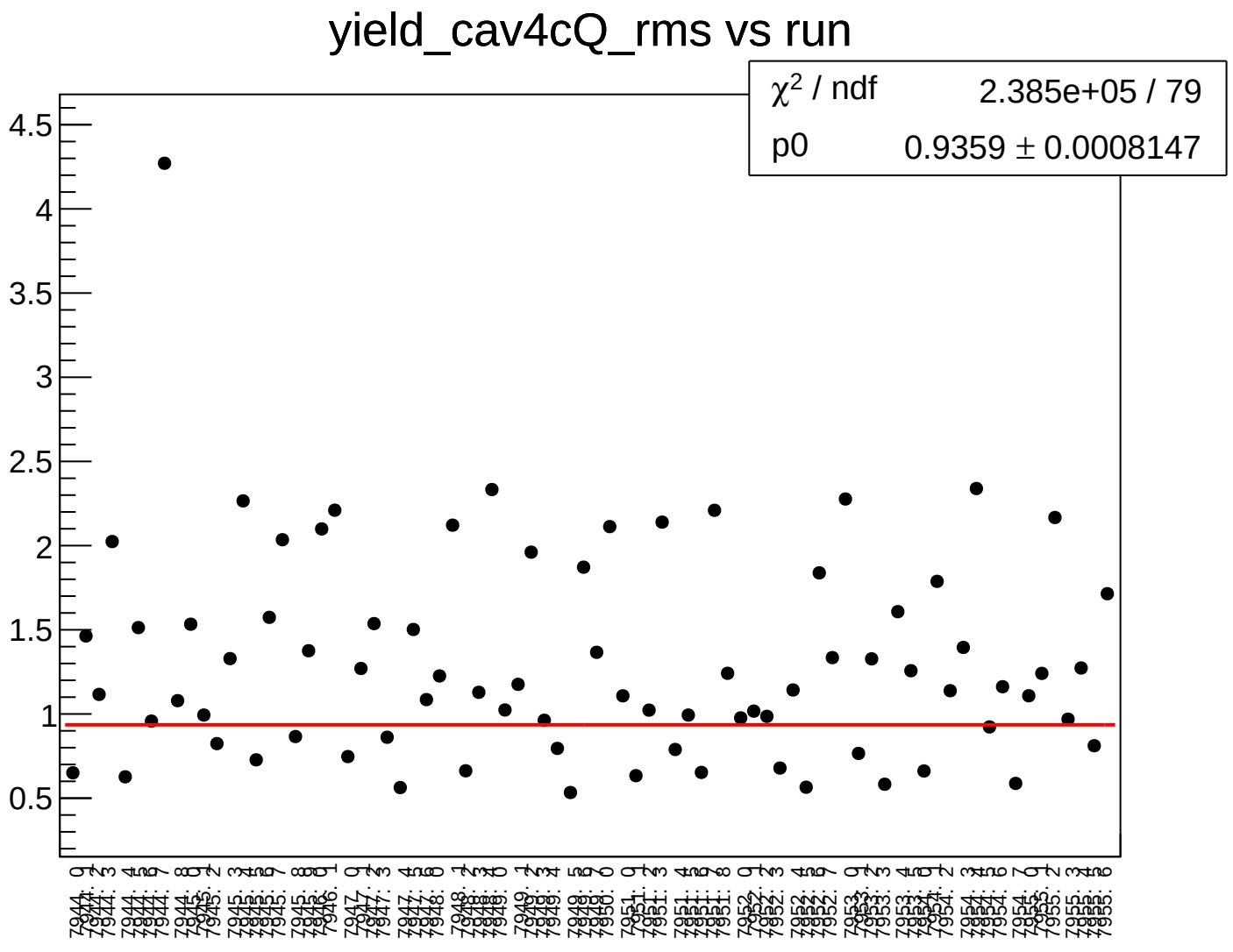

yield_cav4bQ_mean vs run
χ² / ndf 1.7e+06 / 79
p0 143.1± 0.001355
148
147
146
145
144
143
142
141
140
139
pull
Entries 80
Mean −6.728
Std Dev 41.92
400
300
200
100
0
−100
−200
−300
−400

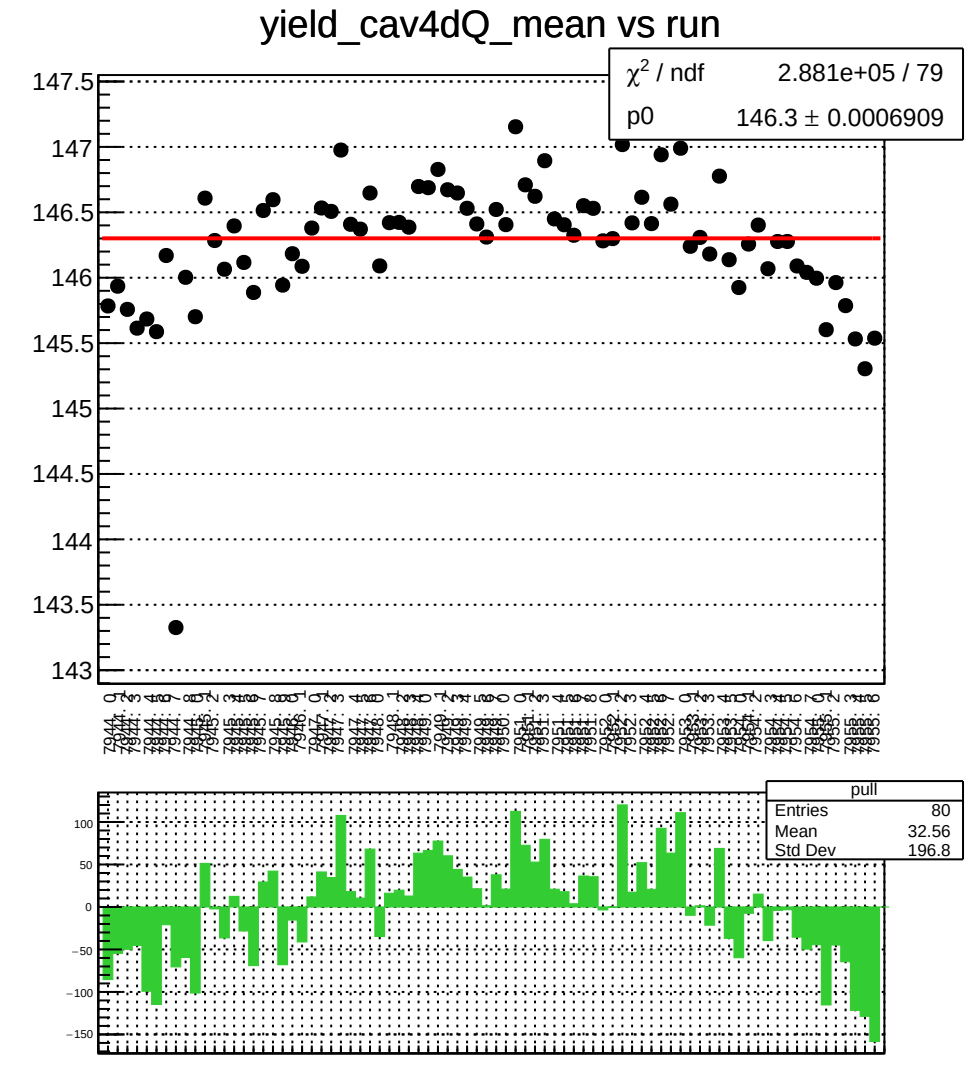

pull1D
Entries 80
Mean 0.4287
Std Dev 4.976
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

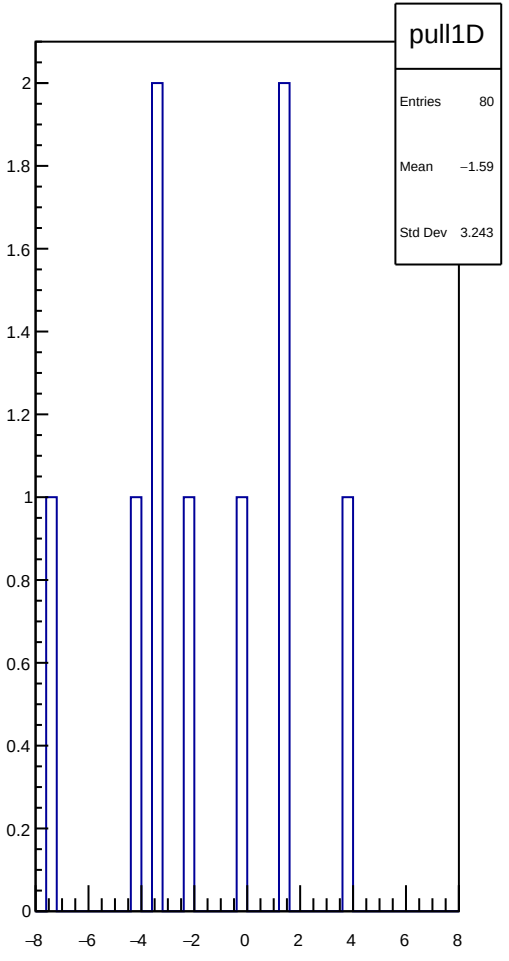

yield_cav4bQ_rms vs run
χ² / ndf 3.468e+05 / 79
p0 1.055 ± 0.0009583
4.5
4
3.5
3
2.5
2
1.5
1
0.5

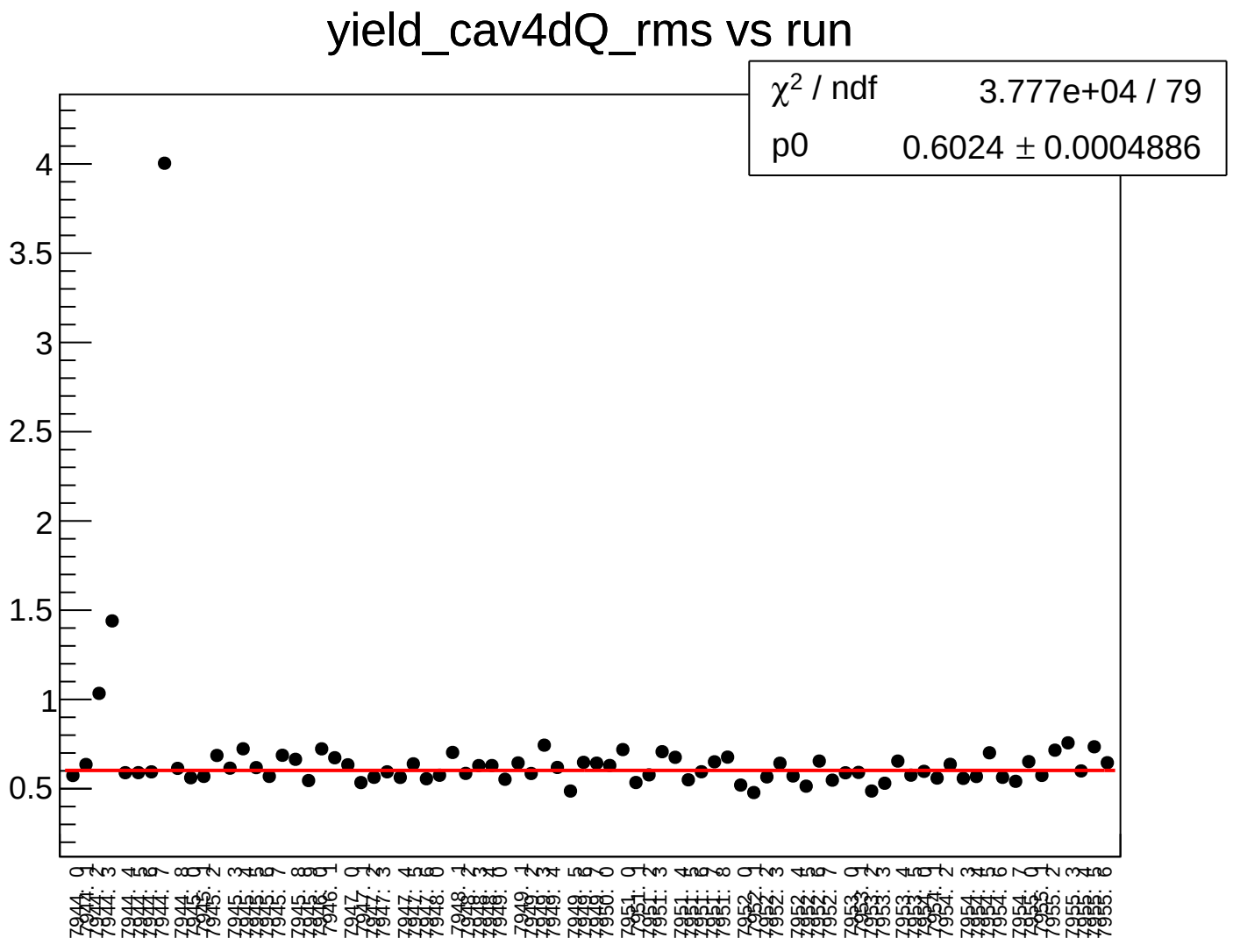

yield_cav4cQ_mean vs run
χ² / ndf 2.009e+06 / 79
p0 149.8 ± 0.001152
152
151
150
149
148
147
pull
Entries 80
Mean −75.21
Std Dev 104.7
400
300
200
100
0
−100
−200
−300

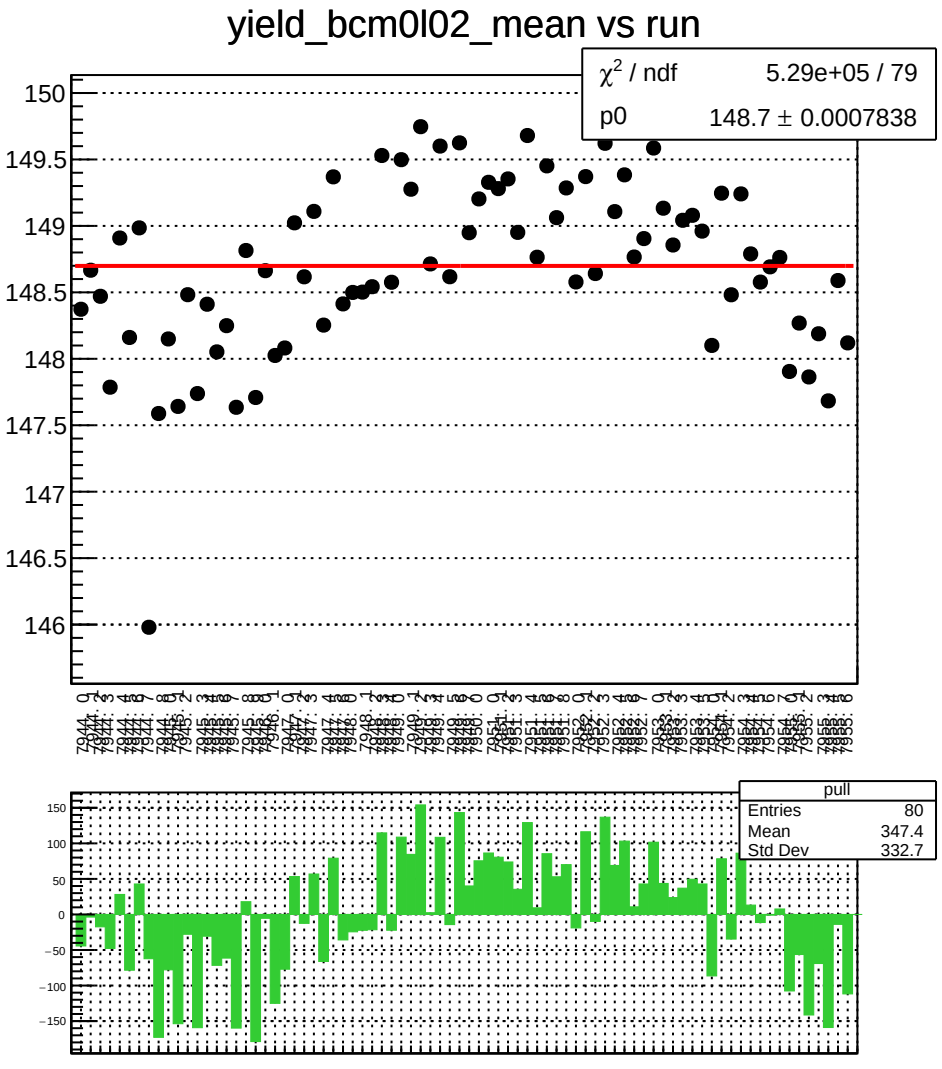

pull1D
Entries 80
Mean −0.7811
Std Dev 4.053
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

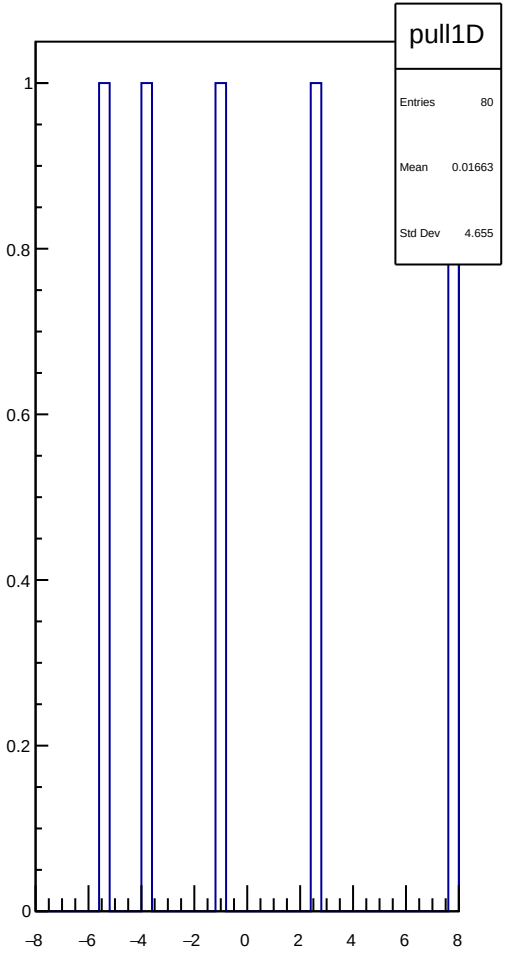

yield_cav4cQ_rms vs run
χ2 / ndf 2.385e+05 / 79
p0 0.9359 ± 0.0008147
4.5
4
3.5
3
2.5
2
1.5
1
0.5

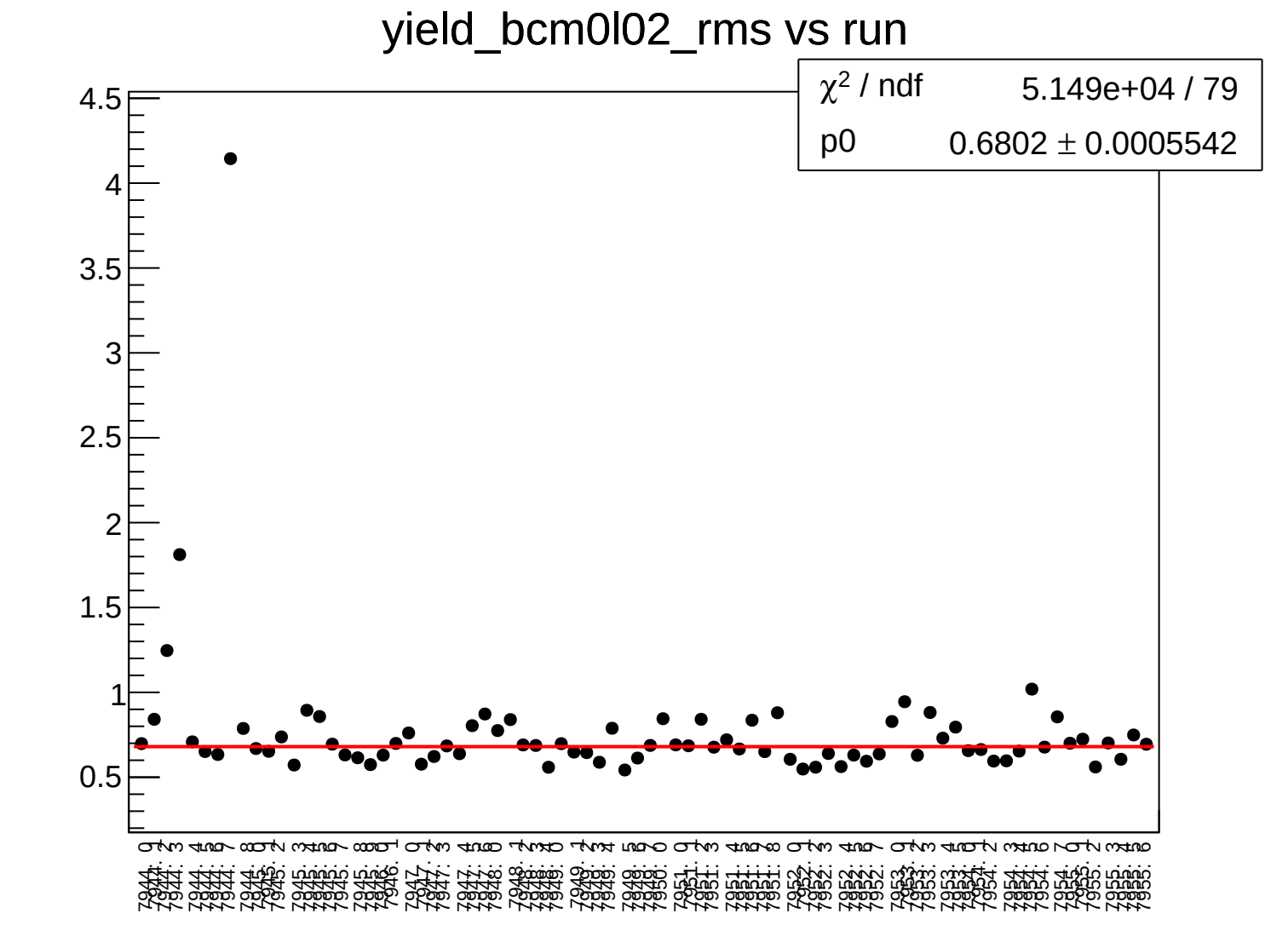

yield_cav4dQ_mean vs run
χ² / ndf 2.881e+05 / 79
p0 146.3 ± 0.0006909
147.5
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 80
Mean 32.56
Std Dev 196.8
100
50
0
−50
−100
−150

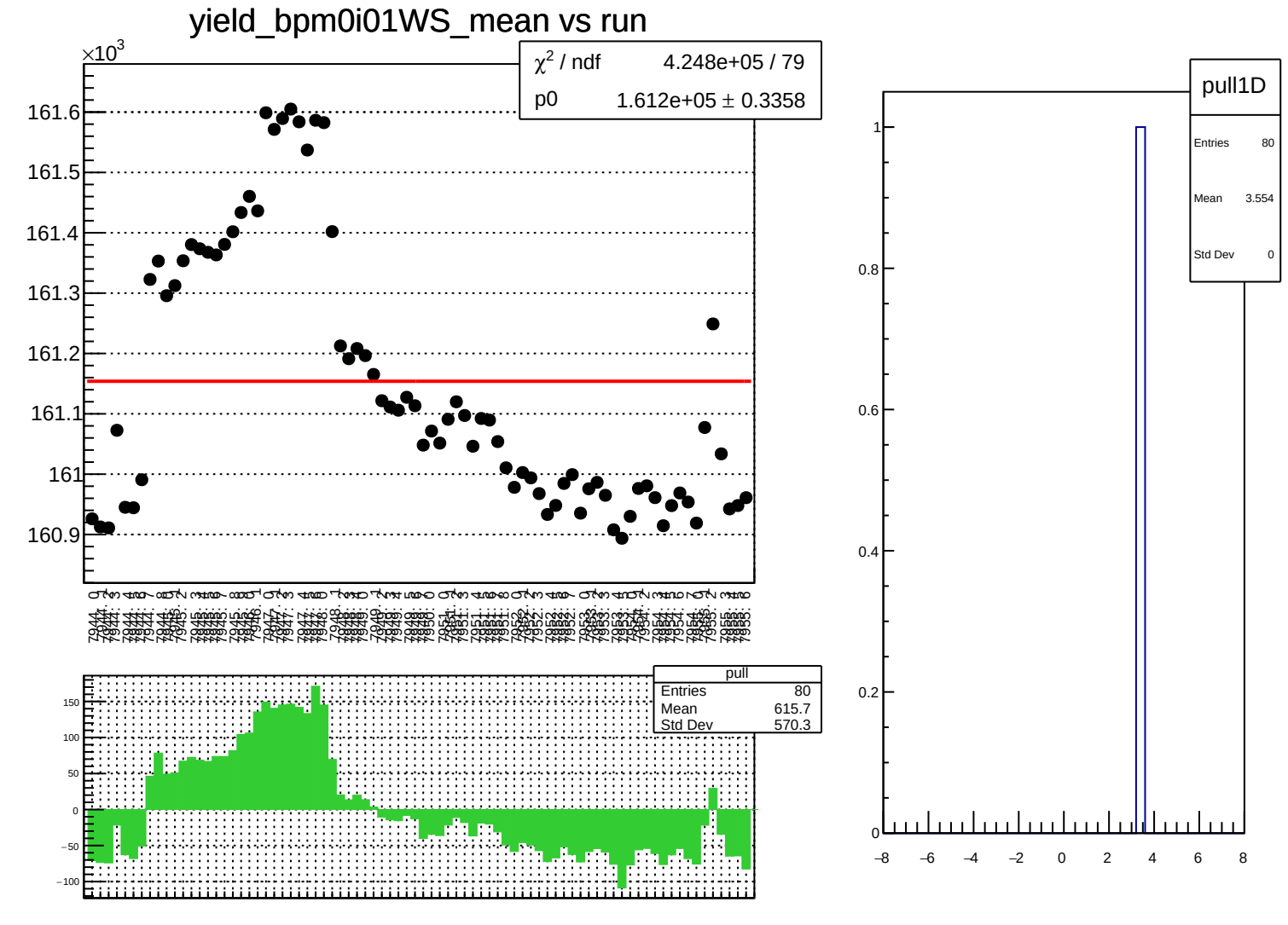

pull1D
Entries 80
Mean −1.59
Std Dev 3.243
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

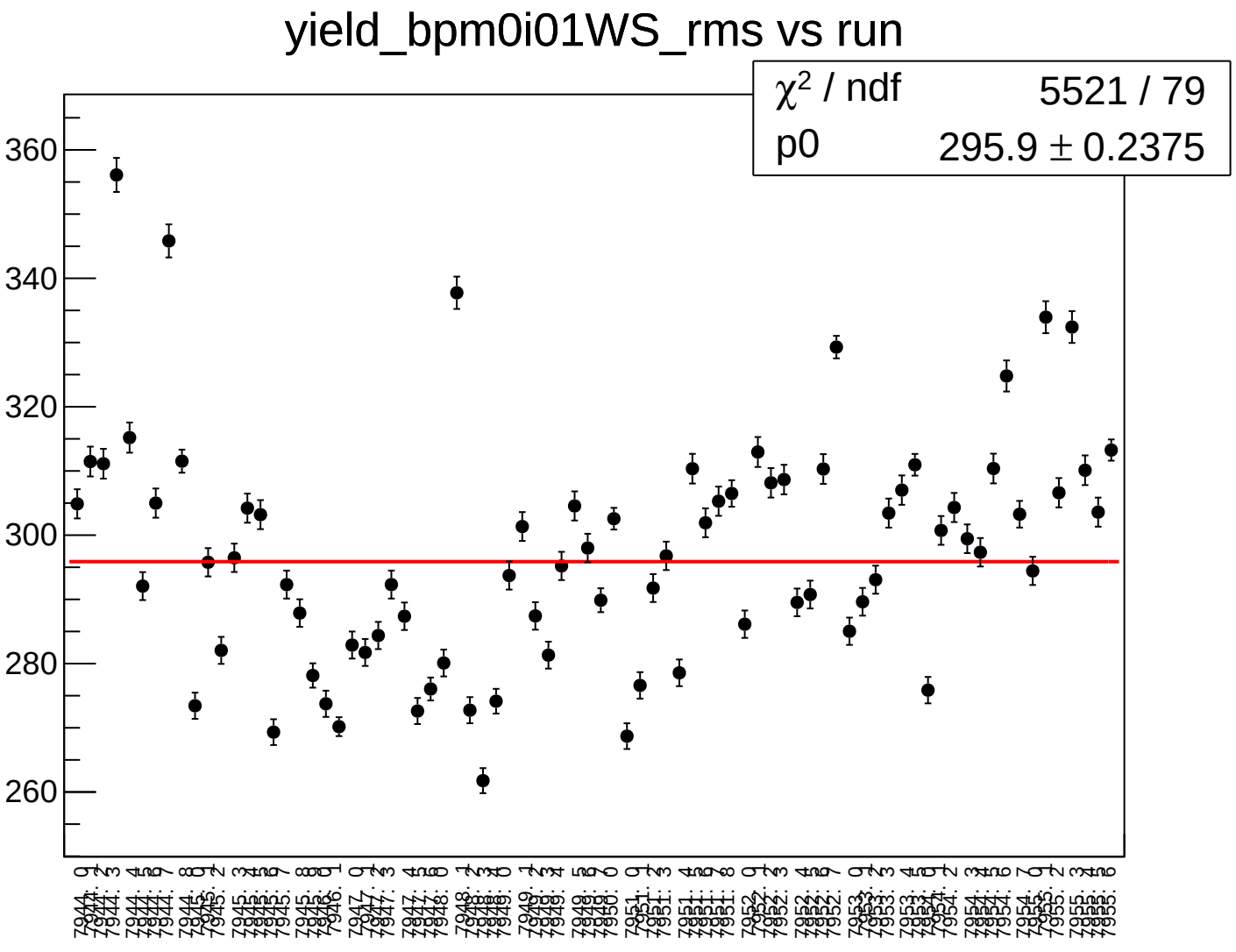

yield_cav4dQ_rms vs run
χ² / ndf 3.777e+04 / 79
p0 0.6024 ± 0.0004886
4
3.5
3
2.5
2
1.5
1
0.5

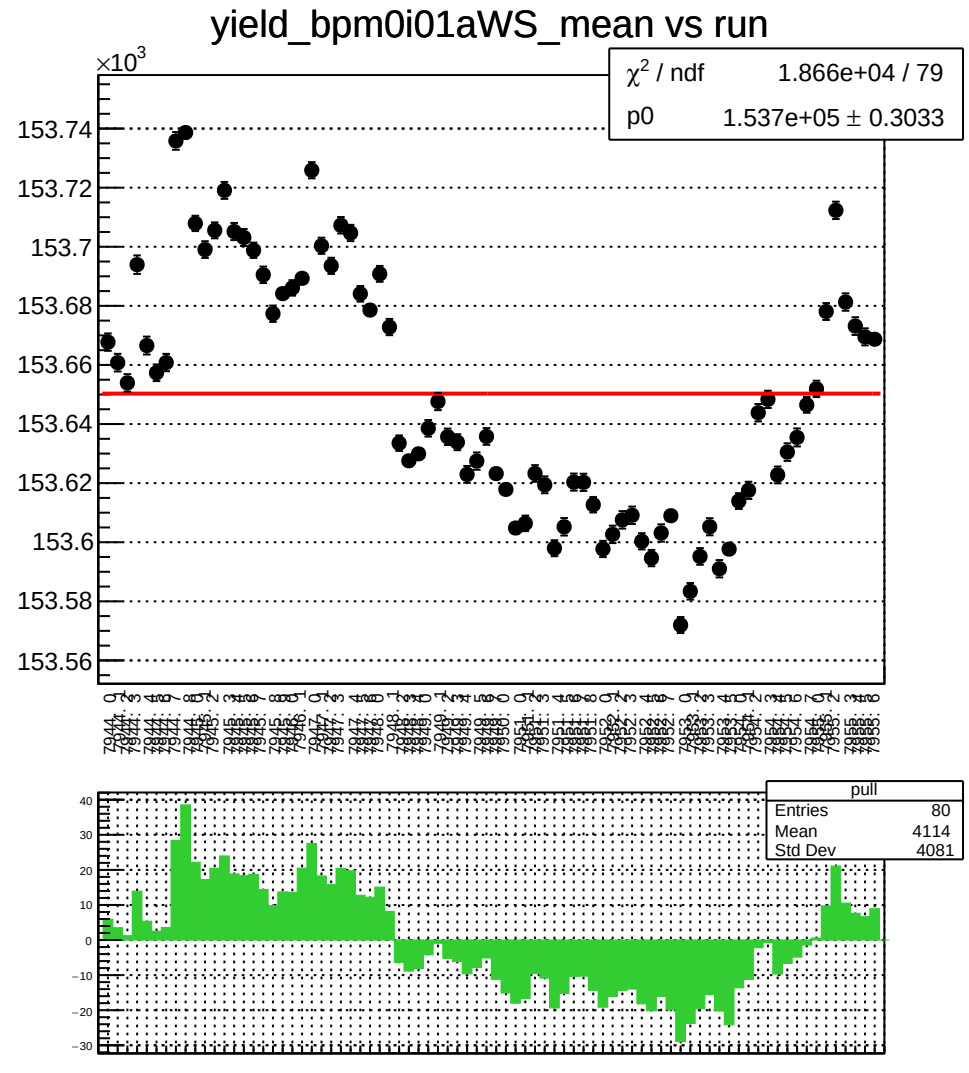

yield_bcm0l02_mean vs run
χ² / ndf 5.29e+05 / 79
p0 148.7 ± 0.0007838
150
149.5
149
148.5
148
147.5
147
146.5
146
pull
Entries 80
Mean 347.4
Std Dev 332.7
150
100
50
0
−50
−100
−150

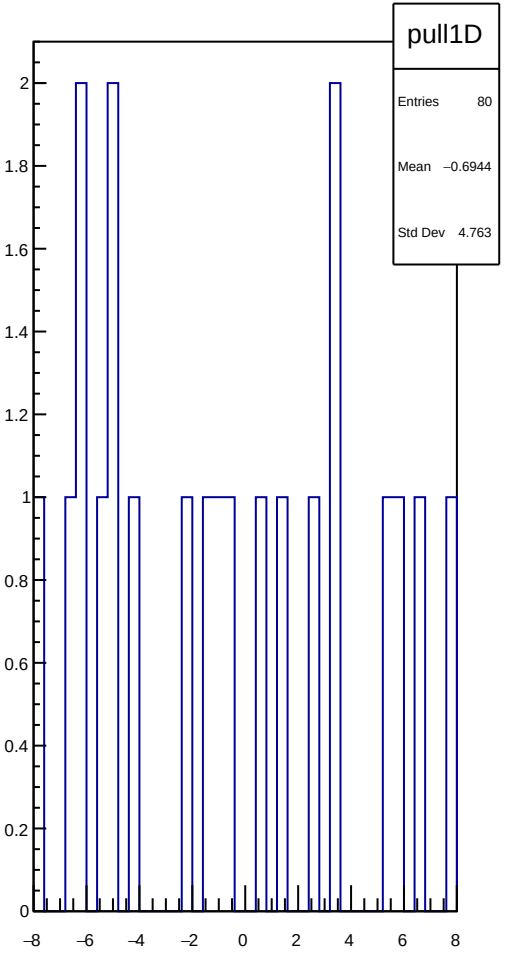

pull1D
Entries 80
Mean 0.01663
Std Dev 4.655
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

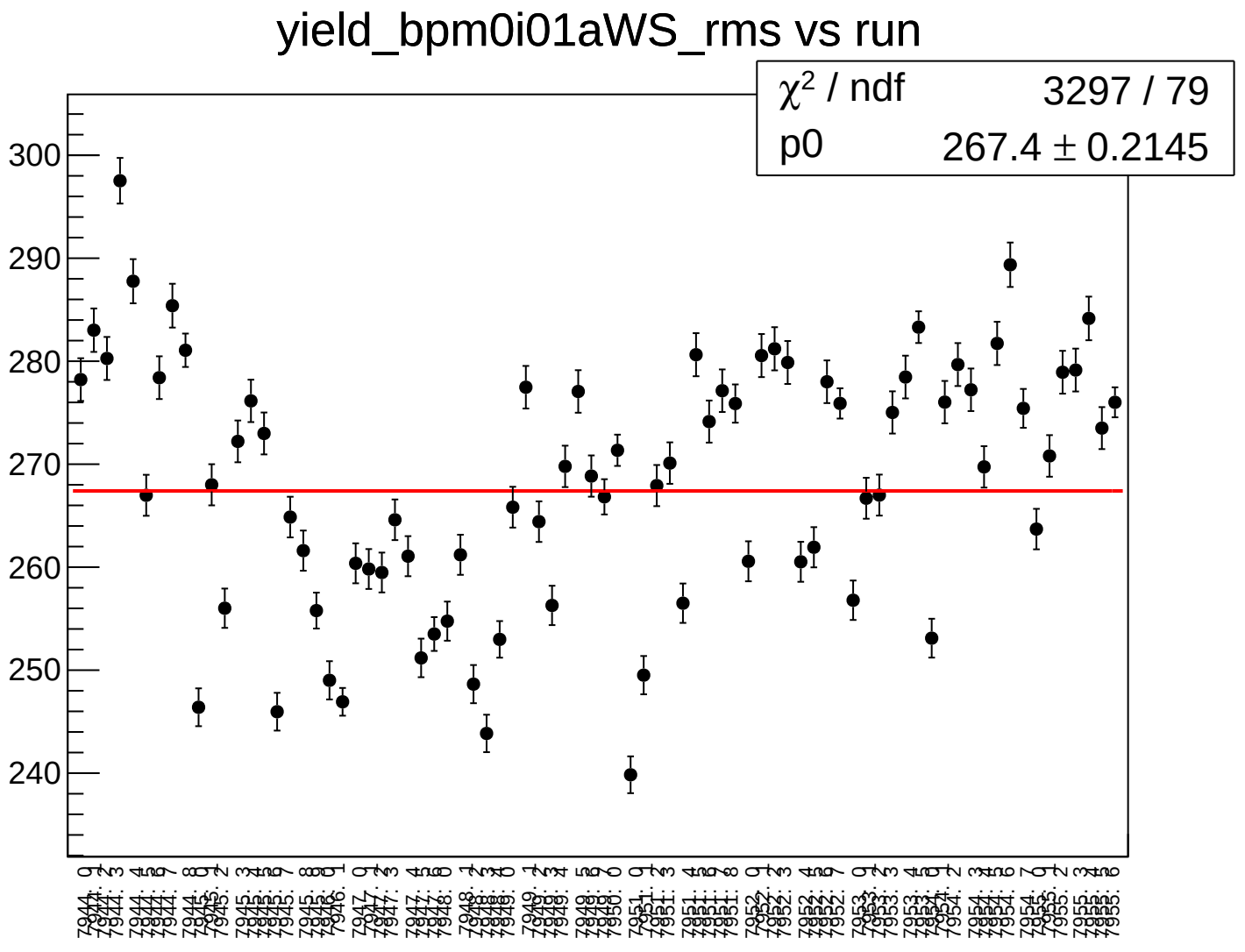

yield_bcm0l02_rms vs run
χ² / ndf 5.149e+04 / 79
p0 0.6802 ± 0.0005542
4.5
4
3.5
3
2.5
2
1.5
1
0.5

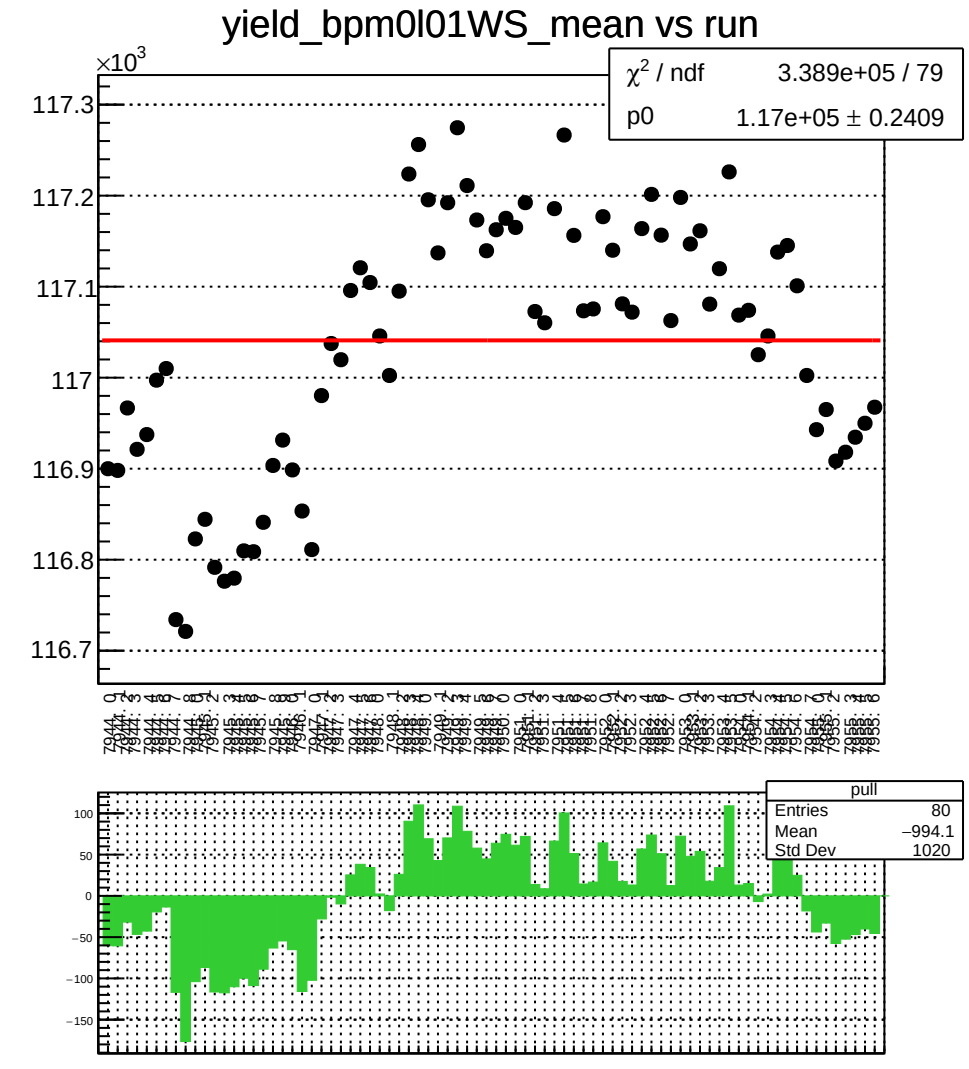

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.248e+05 / 79
p0 1.612e+05 ± 0.3358
161.6
161.5
161.4
161.3
161.2
161.1
161
160.9
pull
Entries 80
Mean 615.7
Std Dev 570.3
150
100
50
0
−50
−100
pull1D
Entries 80
Mean 3.554
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

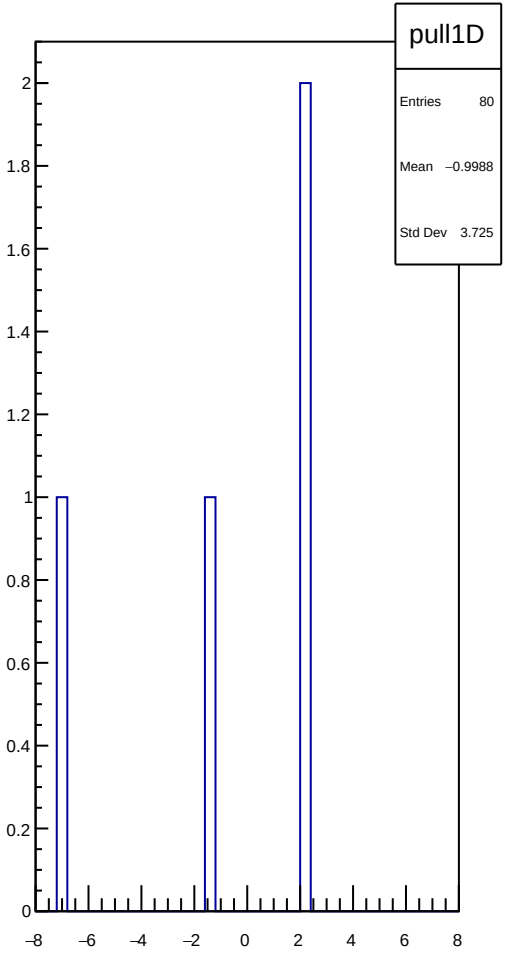

yield_bpm0i01WS_rms vs run
χ² / ndf 5521 / 79
p0 295.9 ± 0.2375
360
340
320
300
280
260

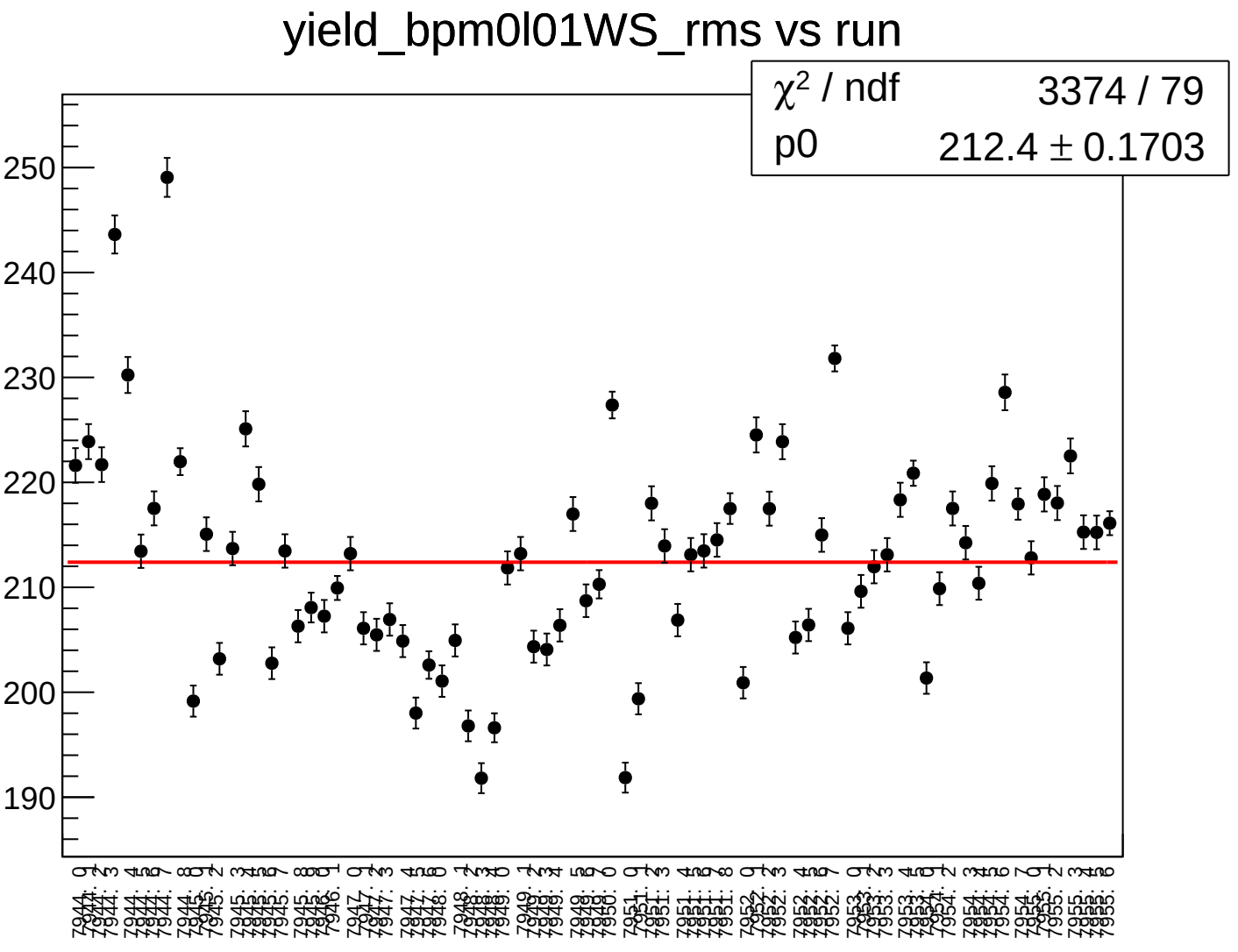

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.866e+04 / 79
p0 1.537e+05 ± 0.3033
153.74
153.72
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
pull
Entries 80
Mean 4114
Std Dev 4081
40
30
20
10
0
−10
−20
−30

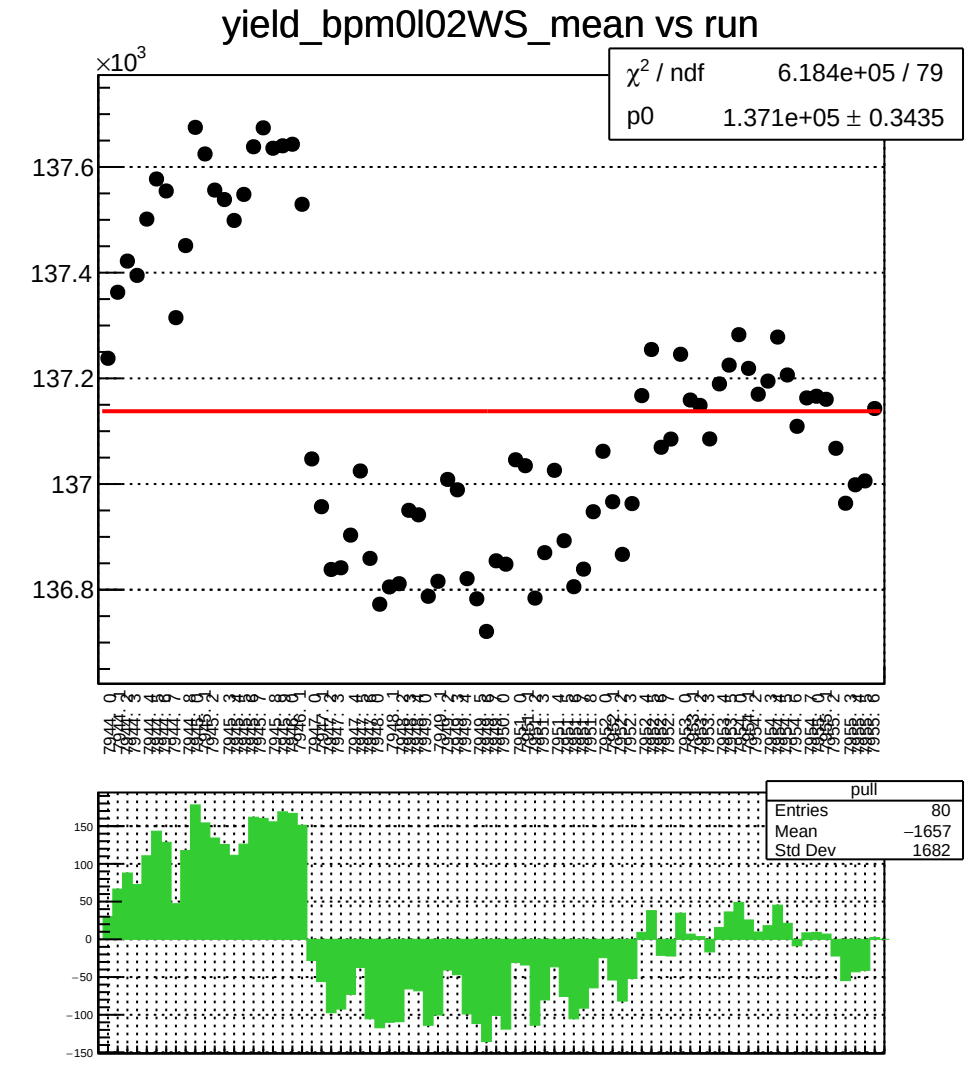

pull1D
Entries 80
Mean −0.6944
Std Dev 4.763
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

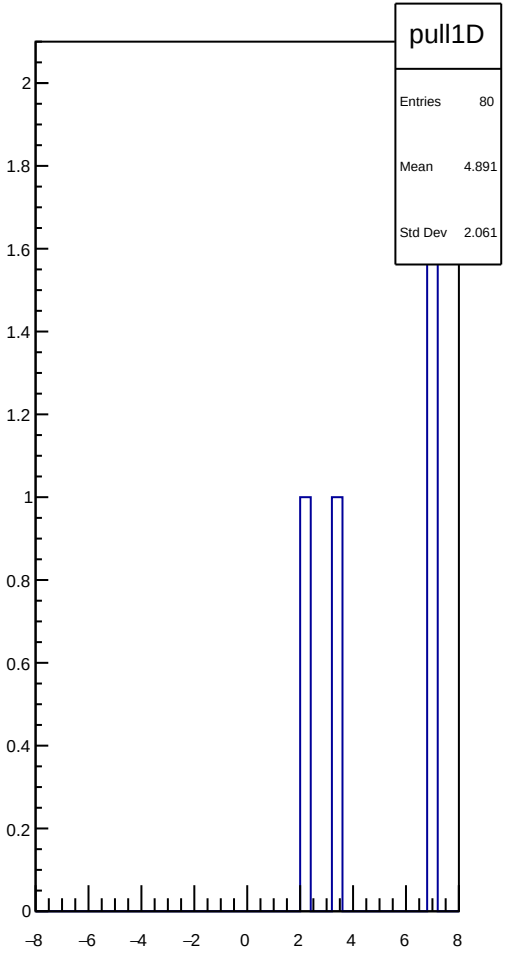

yield_bpm0i01aWS_rms vs run
χ² / ndf 3297 / 79
p0 267.4 ± 0.2145
300
290
280
270
260
250
240

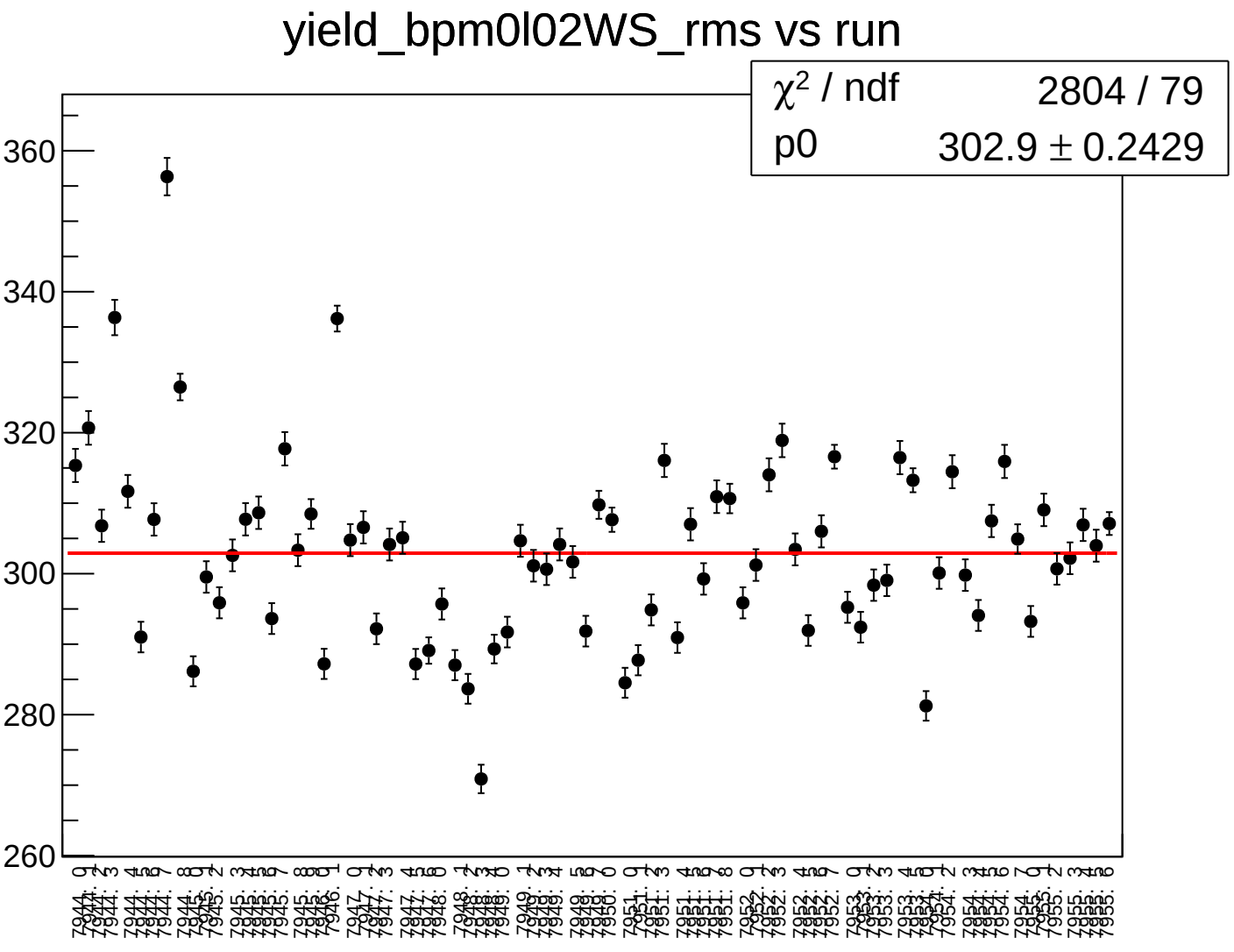

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.389e+05 / 79
p0 1.17e+05 ± 0.2409
117.3
117.2
117.1
117
116.9
116.8
116.7
pull
Entries 80
Mean −994.1
Std Dev 1020
100
50
0
−50
−100
−150

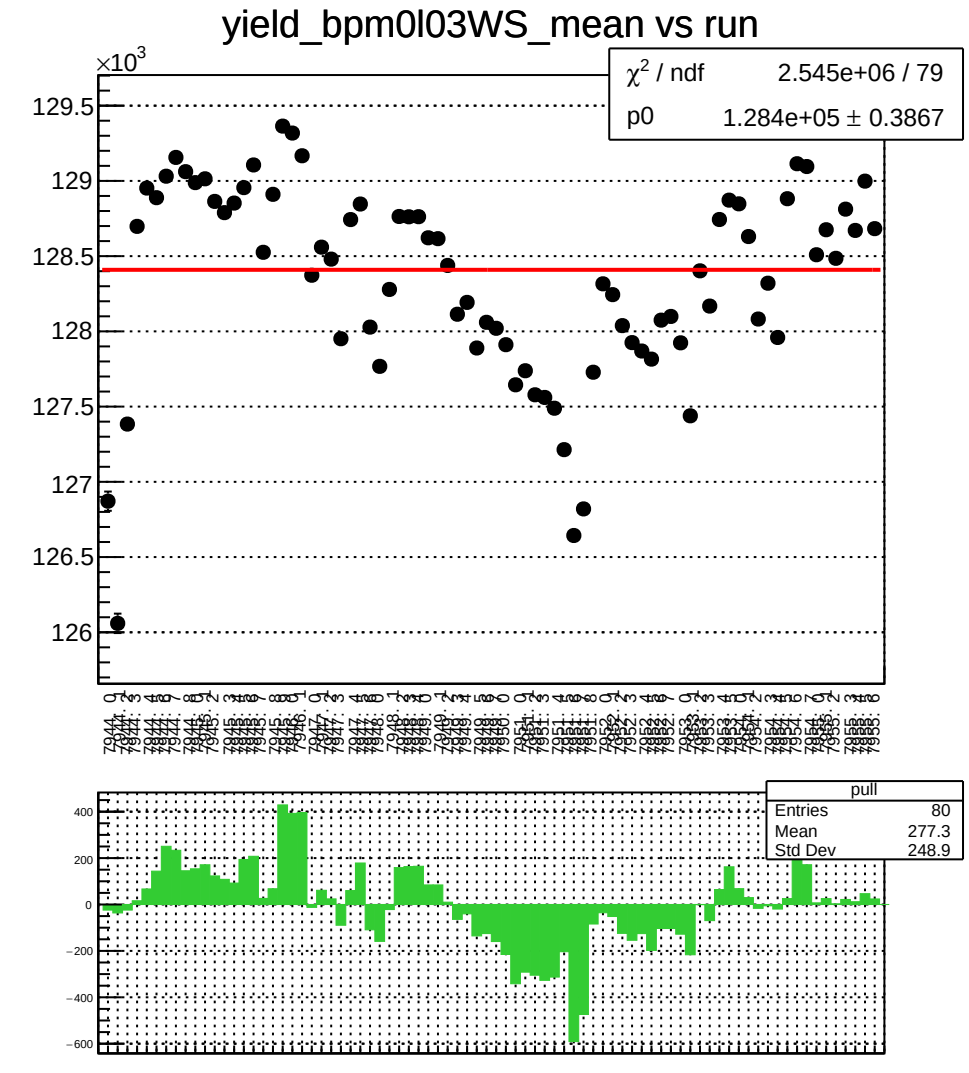

pull1D
Entries 80
Mean −0.9988
Std Dev 3.725
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

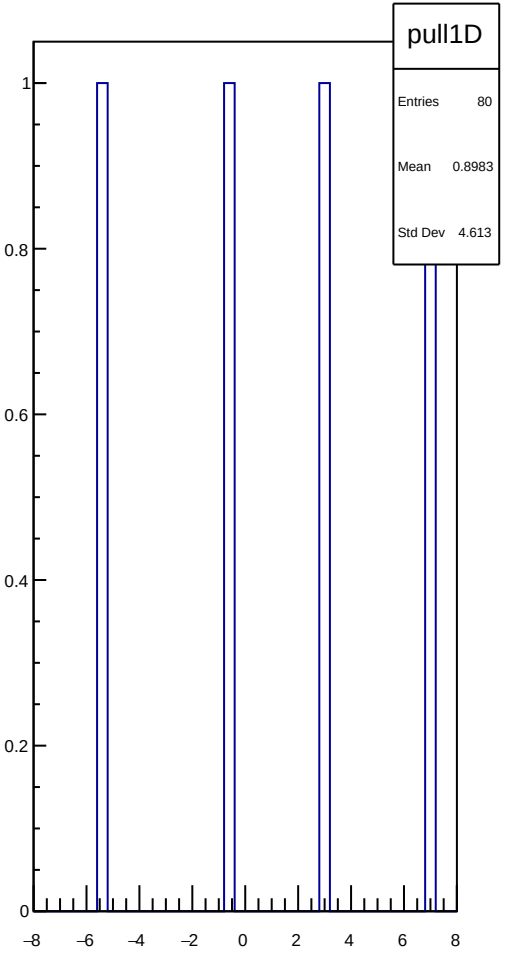

yield_bpm0l01WS_rms vs run
χ² / ndf 3374 / 79
p0 212.4 ± 0.1703
250
240
230
220
210
200
190

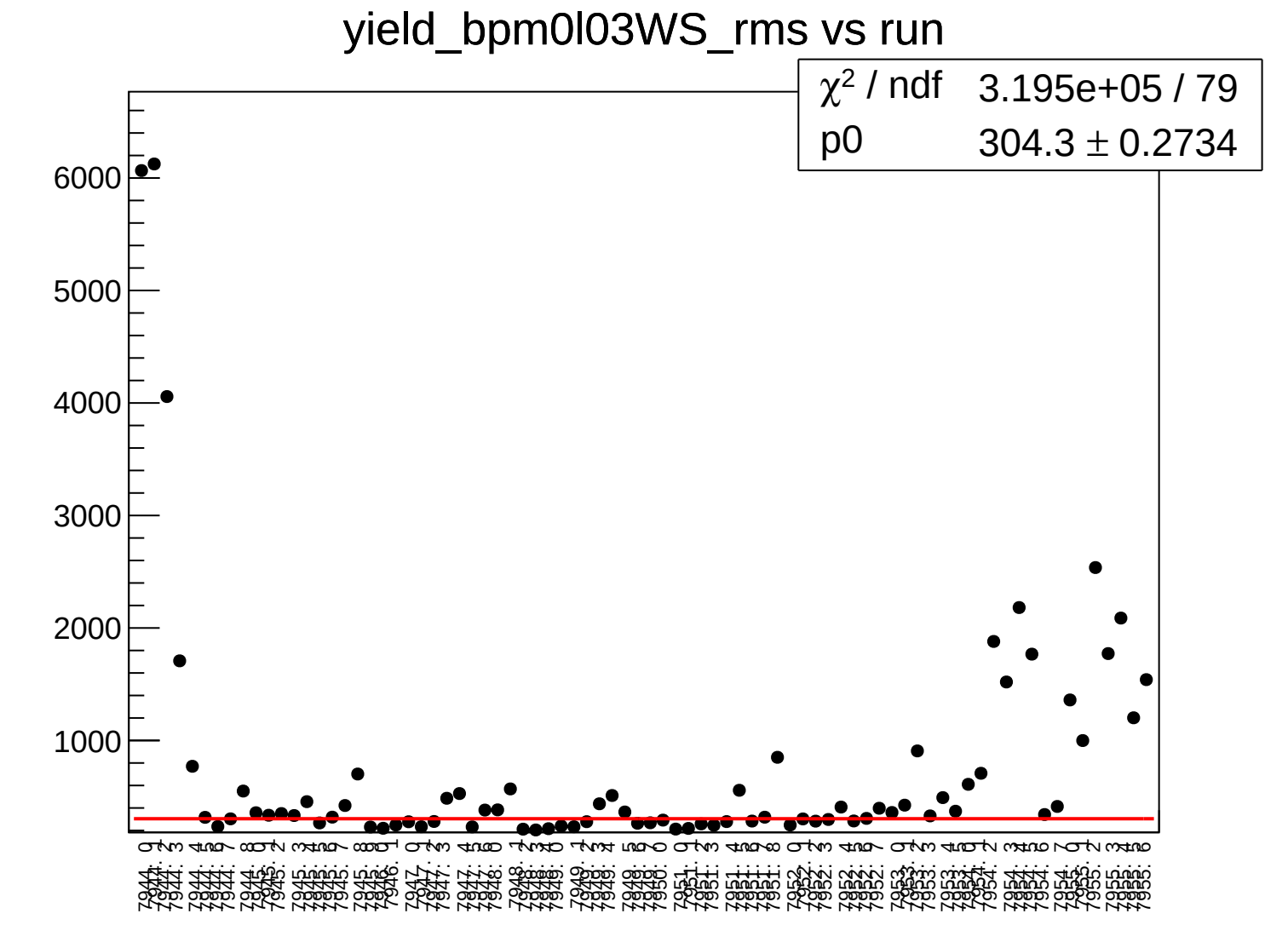

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 6.184e+05 / 79
p0 1.371e+05 ± 0.3435
137.6
137.4
137.2
137
136.8
pull
Entries 80
Mean −1657
Std Dev 1682
150
100
50
0
−50
−100
−150

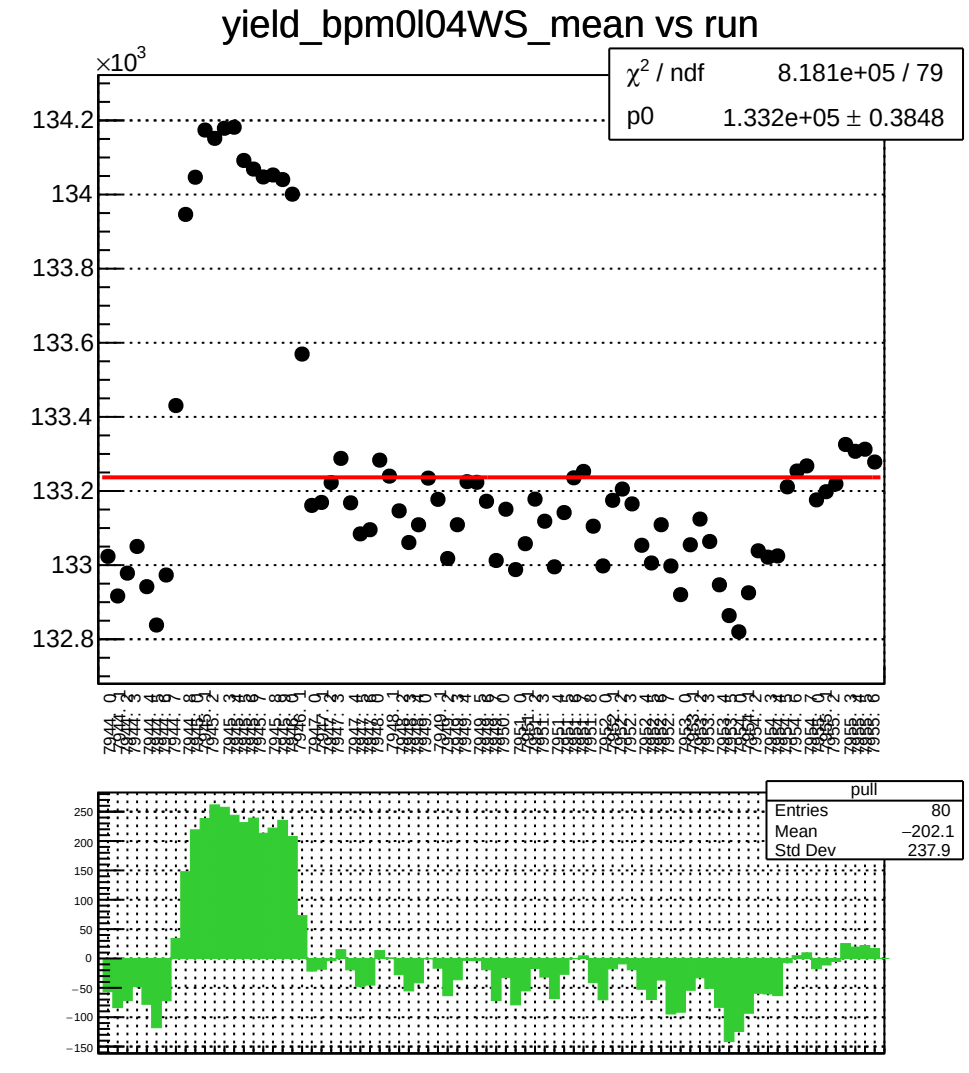

pull1D
Entries 80
Mean 4.891
Std Dev 2.061
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

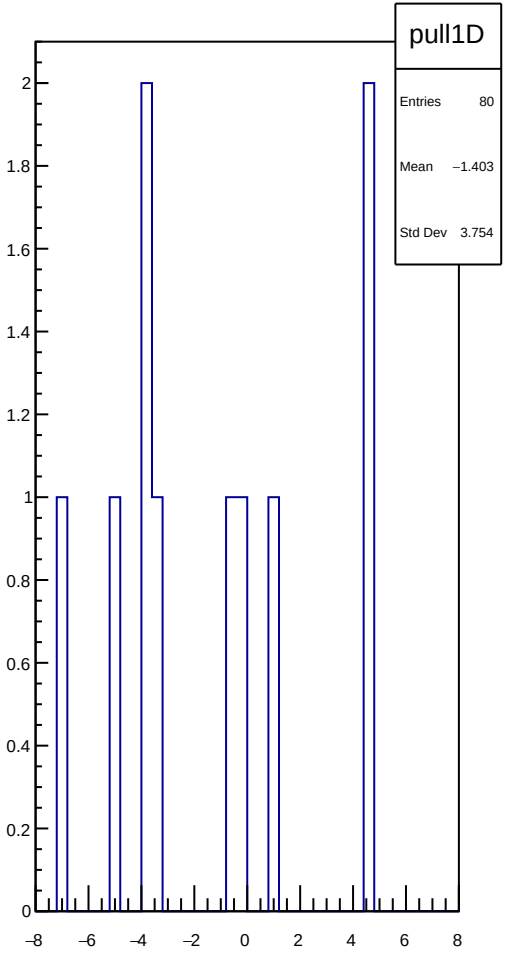

yield_bpm0l02WS_rms vs run
χ² / ndf 2804 / 79
p0 302.9 ± 0.2429
360
340
320
300
280
260

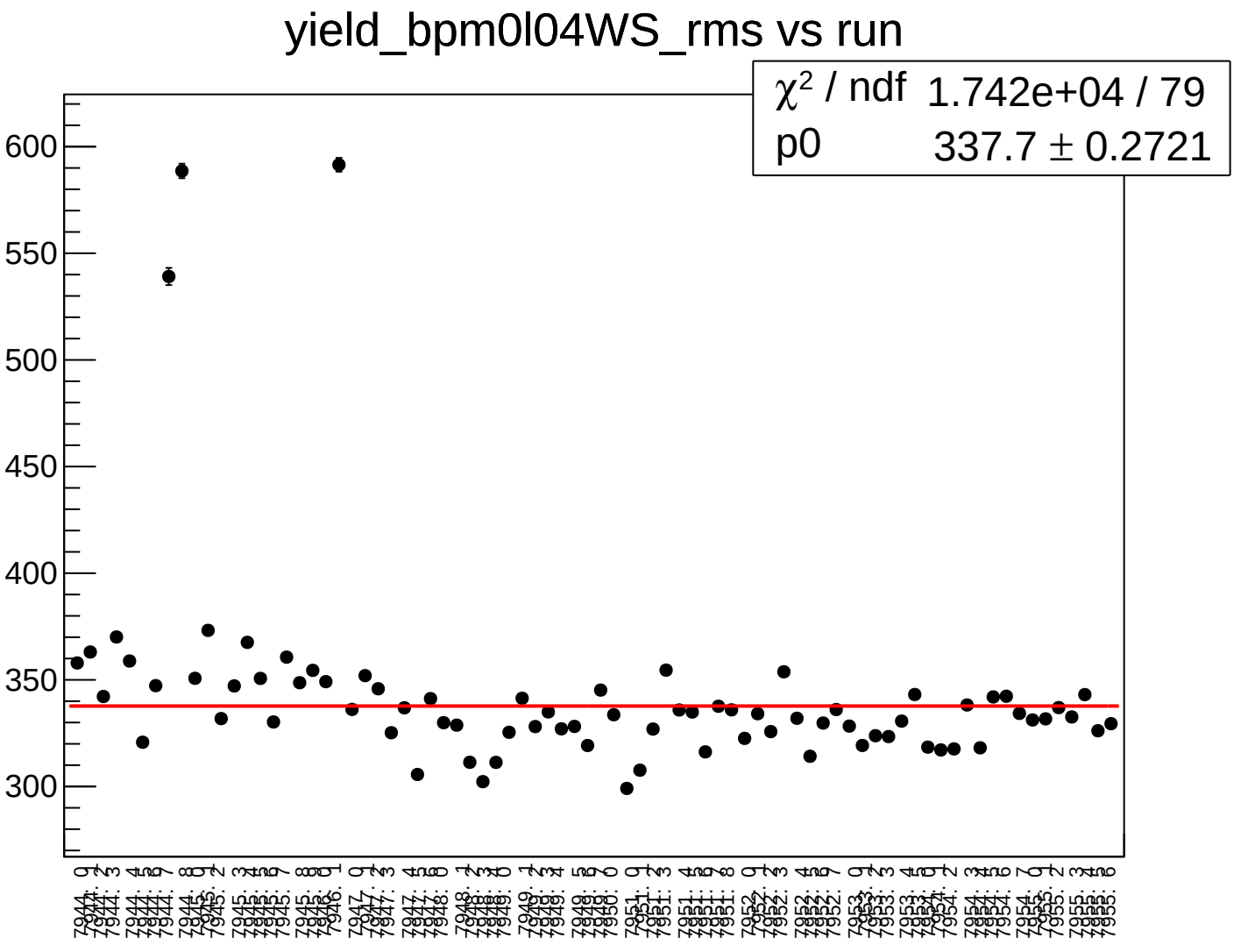

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.545e+06 / 79
p0 1.284e+05 ± 0.3867
129.5
129
128.5
128
127.5
127
126.5
126
pull
Entries 80
Mean 277.3
Std Dev 248.9
400
200
0
−200
−400
−600

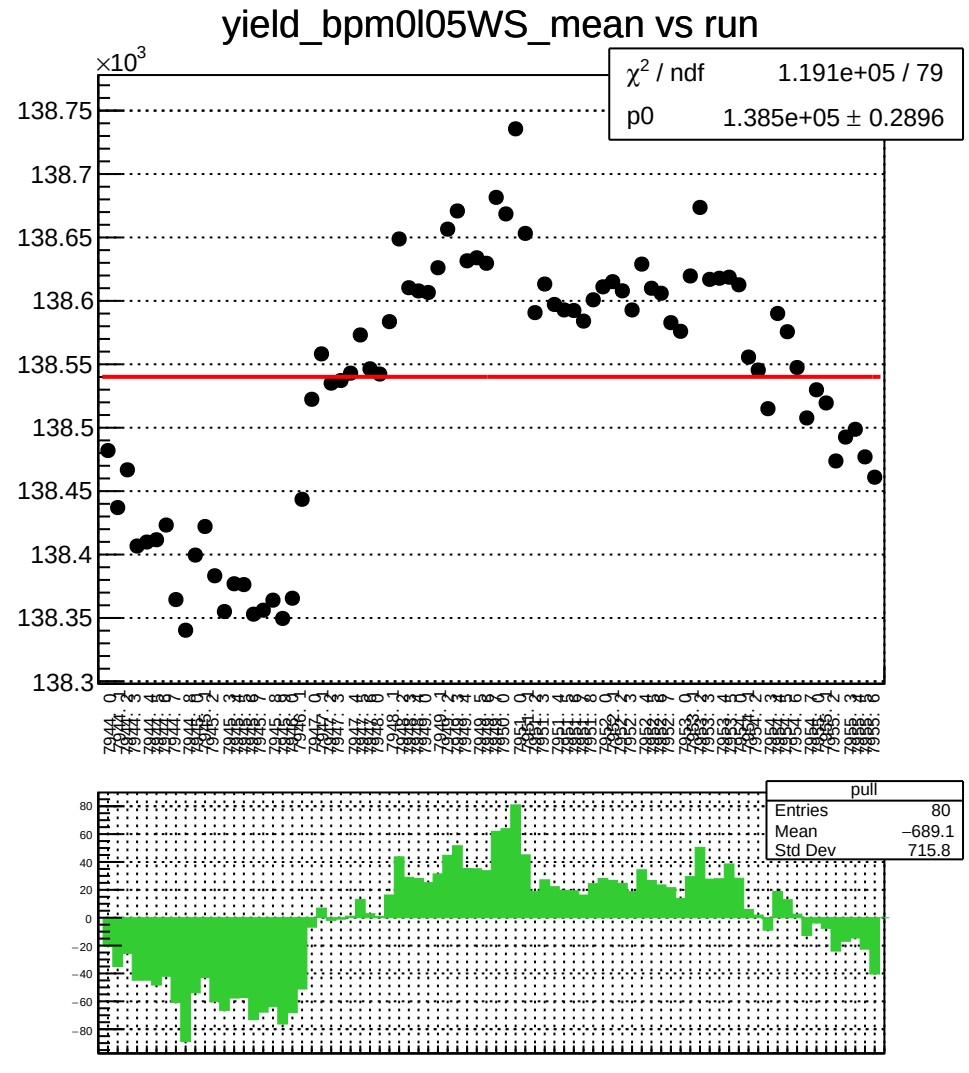

pull1D
Entries 80
Mean 0.8983
Std Dev 4.613
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

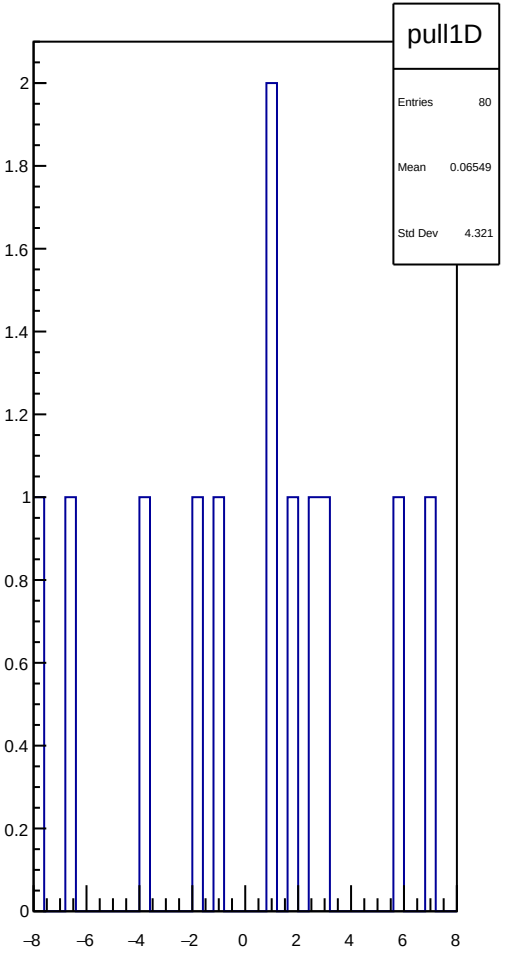

yield_bpm0l03WS_rms vs run
χ² / ndf 3.195e+05 / 79
p0 304.3 ± 0.2734
6000
5000
4000
3000
2000
1000

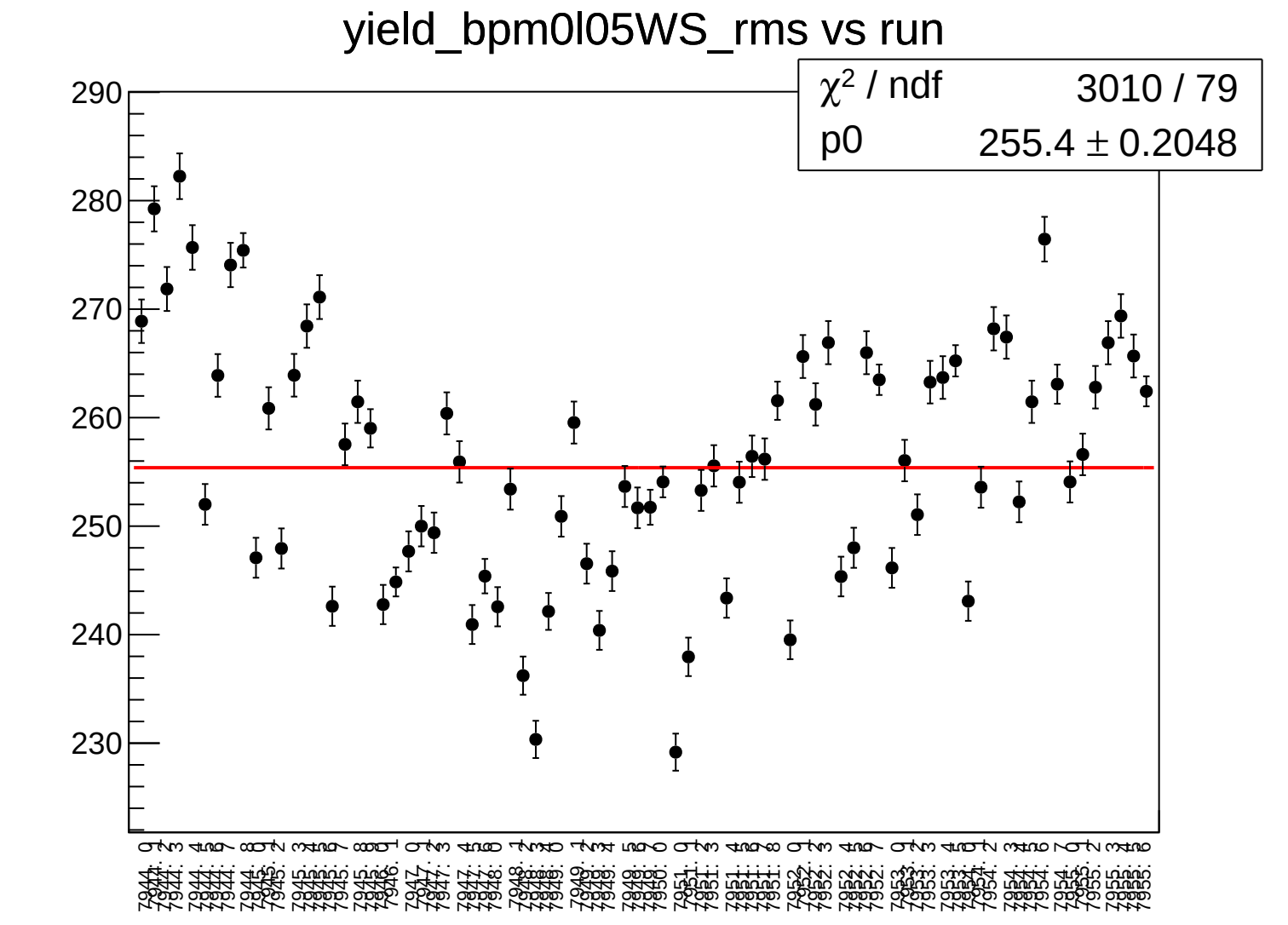

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 8.181e+05 / 79
p0 1.332e+05 ± 0.3848
134.2
134
133.8
133.6
133.4
133.2
133
132.8
pull
Entries 80
Mean −202.1
Std Dev 237.9
250
200
150
100
50
0
−50
−100
−150

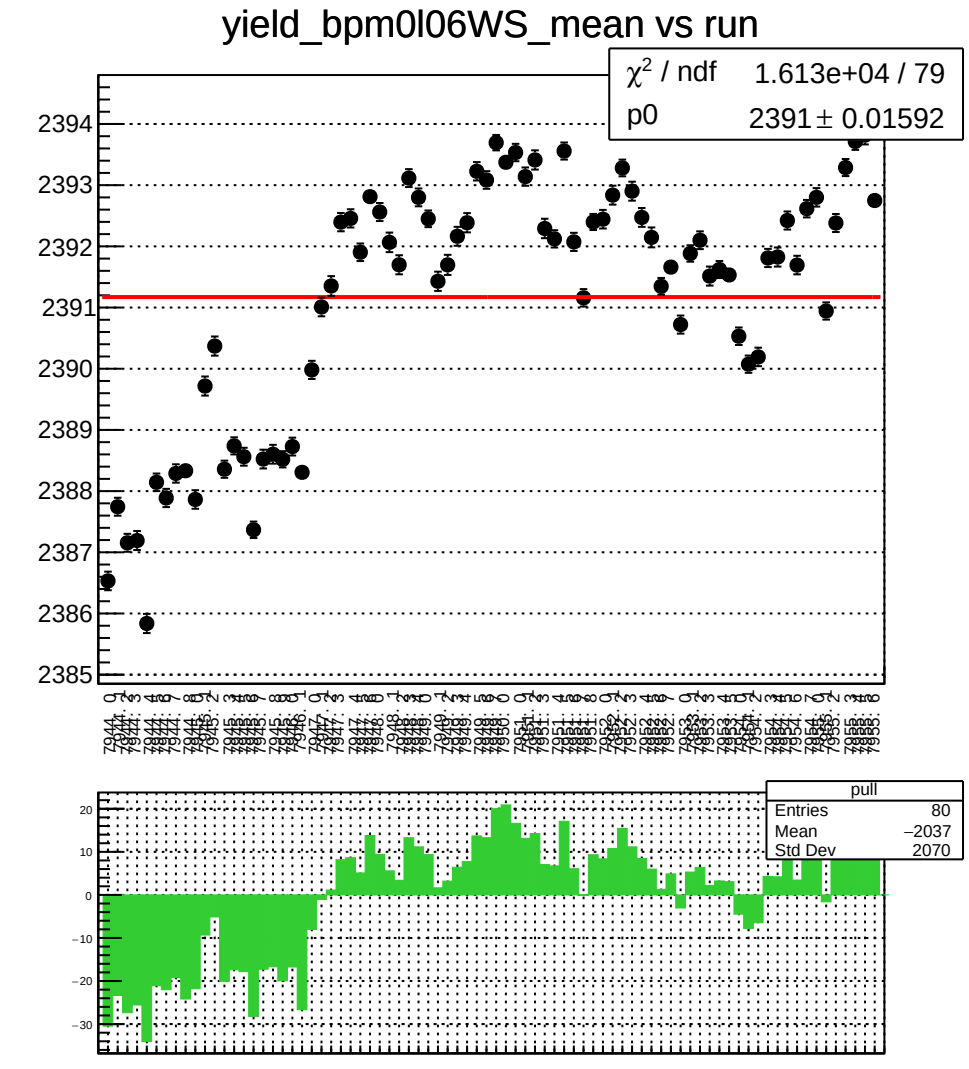

pull1D
Entries 80
Mean −1.403
Std Dev 3.754
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

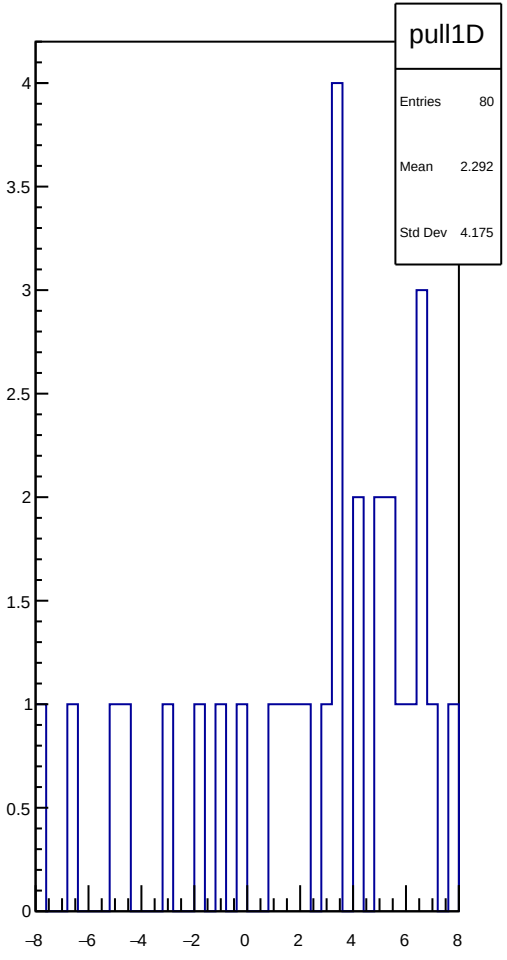

yield_bpm0l04WS_rms vs run
χ² / ndf 1.742e+04 / 79
p0 337.7 ± 0.2721
600
550
500
450
400
350
300

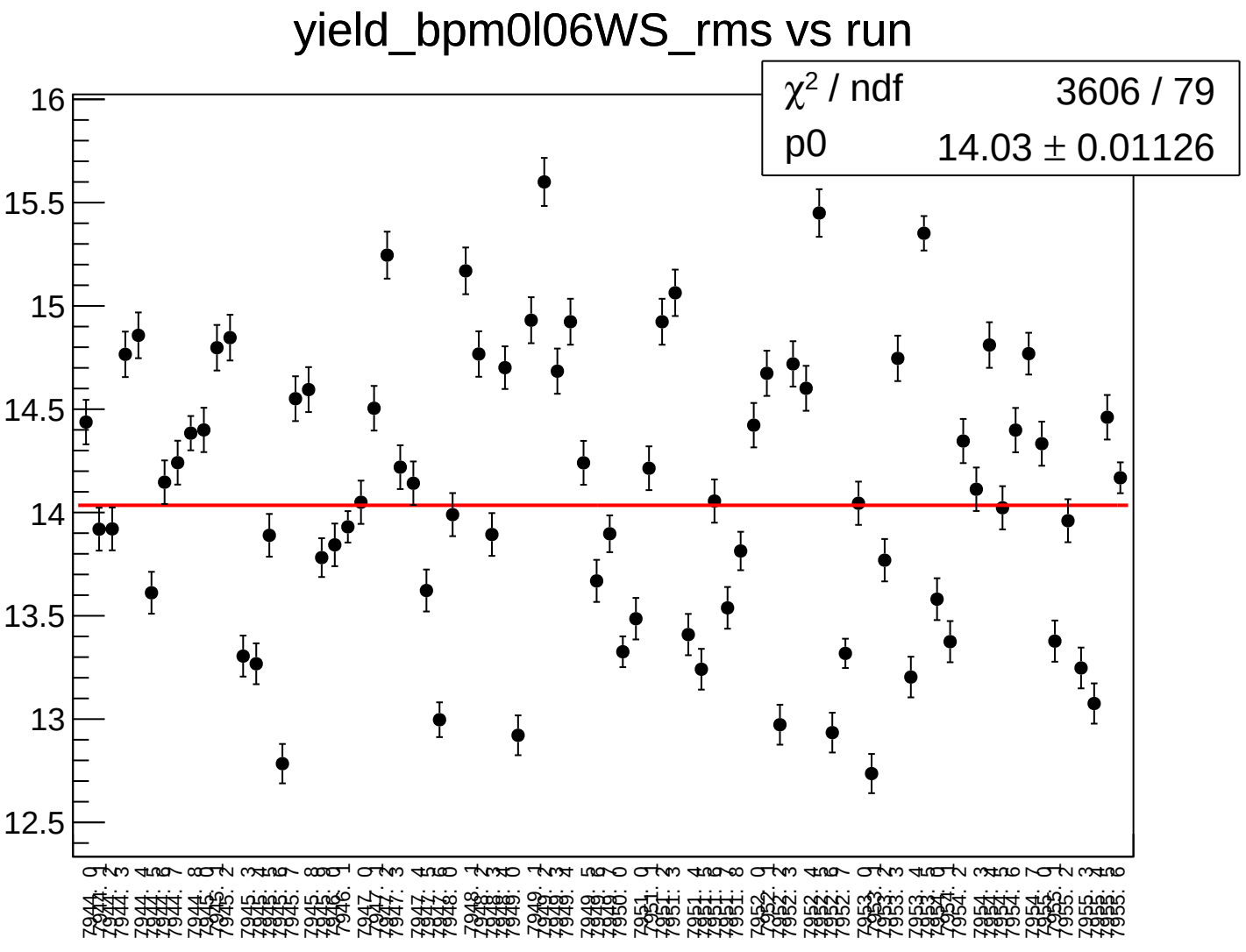

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.191e+05 / 79
p0 1.385e+05 ± 0.2896
138.75
138.7
138.65
138.6
138.55
138.5
138.45
138.4
138.35
138.3
pull
Entries 80
Mean −689.1
Std Dev 715.8
80
60
40
20
0
−20
−40
−60
−80

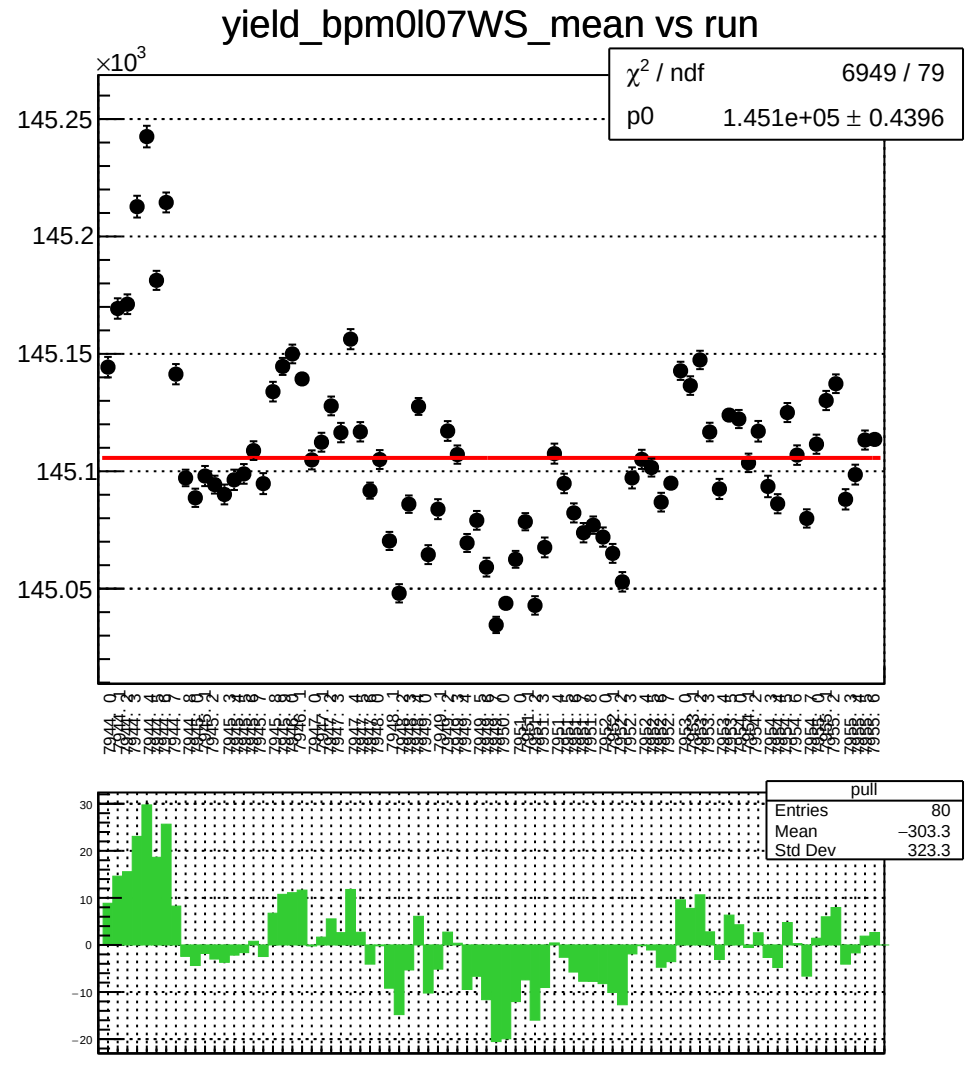

pull1D
Entries 80
Mean 0.06549
Std Dev 4.321
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

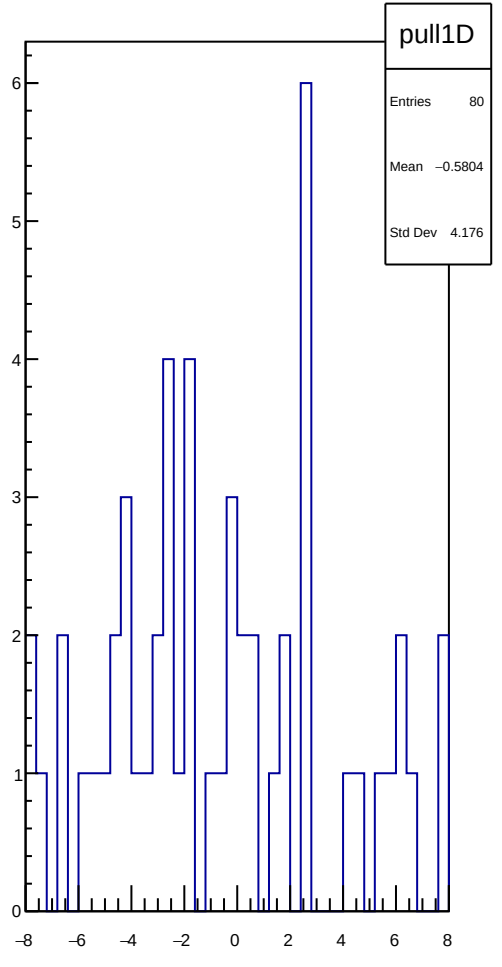

yield_bpm0l05WS_rms vs run
χ² / ndf 3010 / 79
p0 255.4 ± 0.2048
290
280
270
260
250
240
230

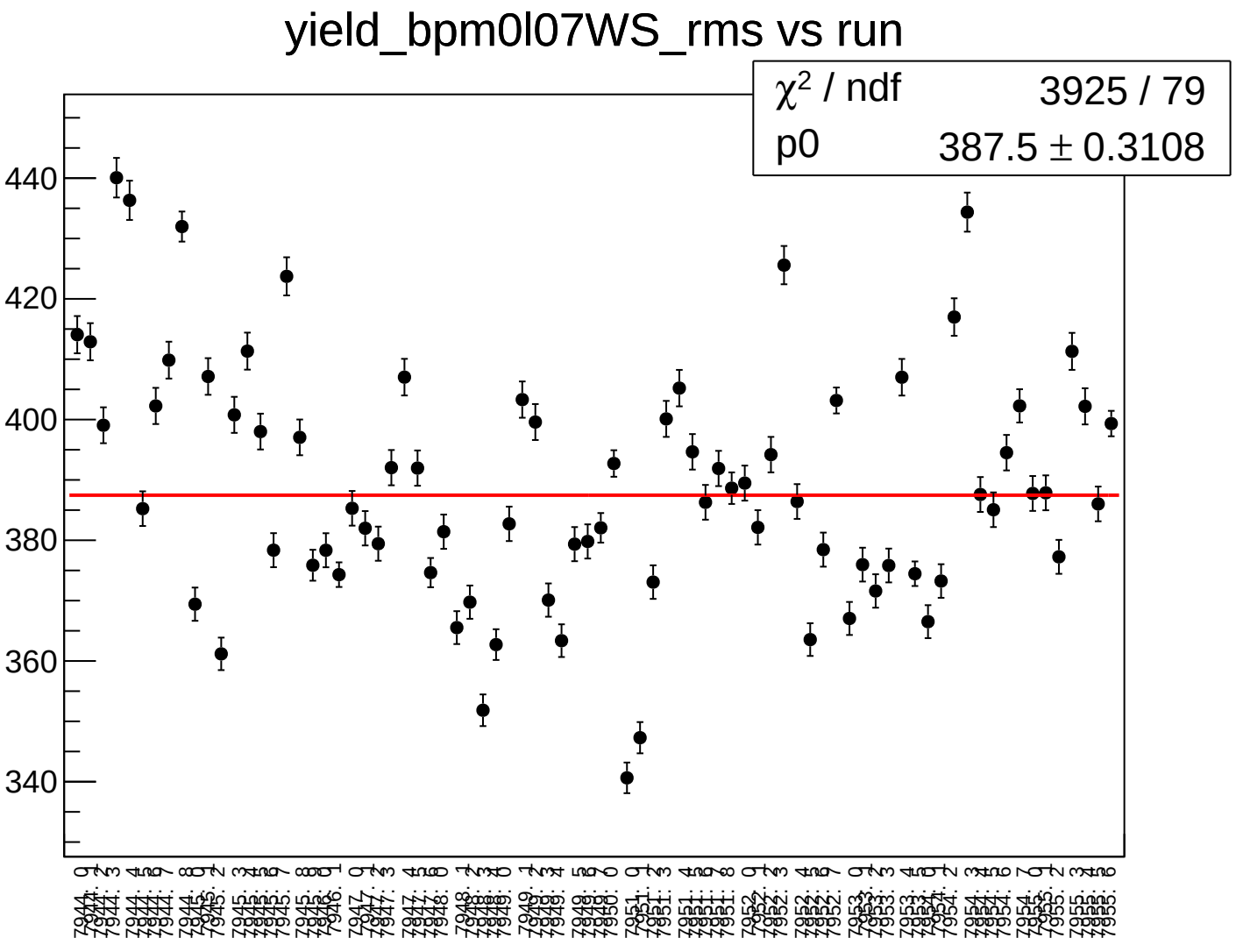

yield_bpm0l06WS_mean vs run
χ² / ndf 1.613e+04 / 79
p0 2391 ± 0.01592
pull
Entries 80
Mean −2037
Std Dev 2070

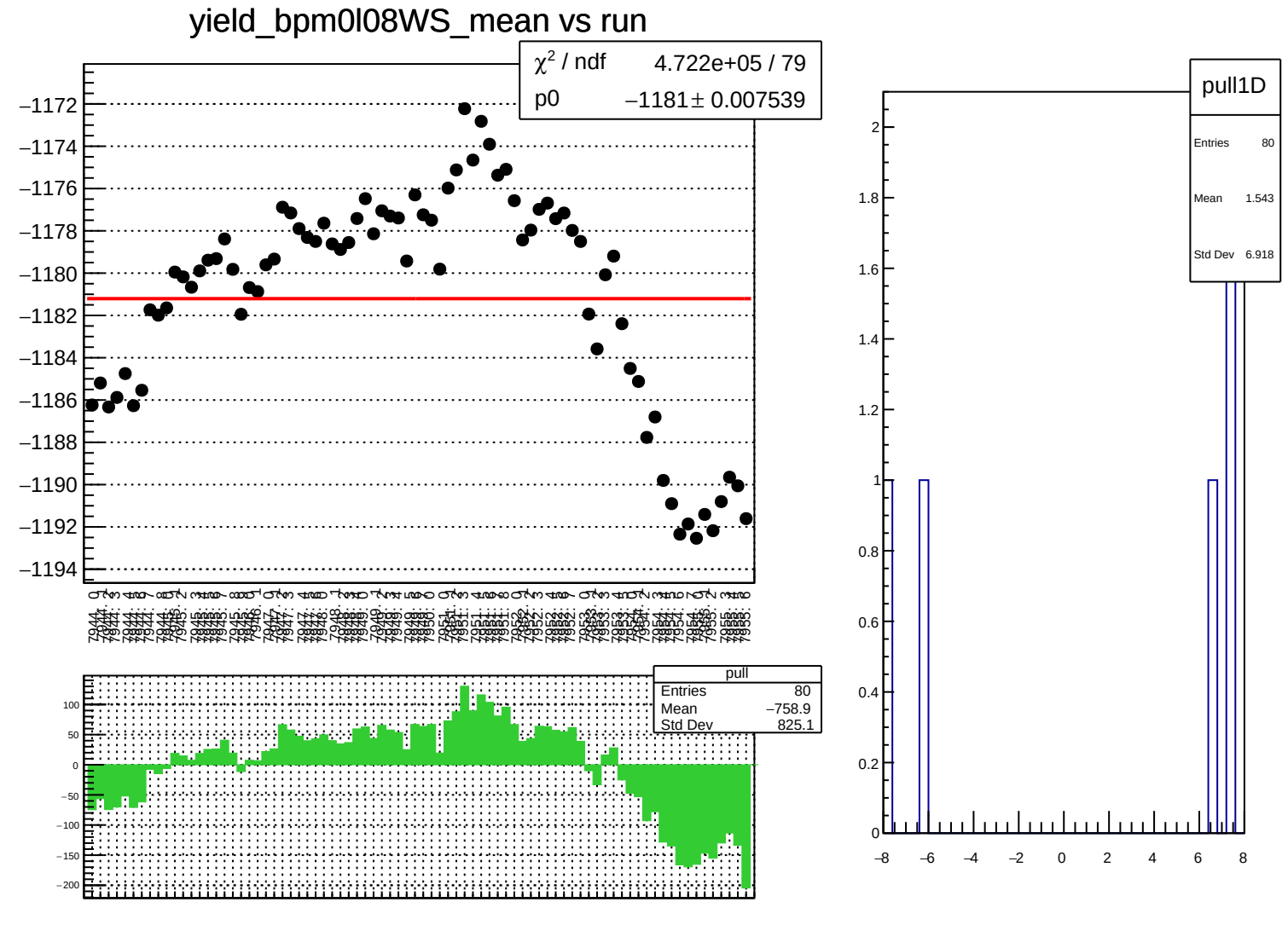

pull1D
Entries 80
Mean 2.292
Std Dev 4.175

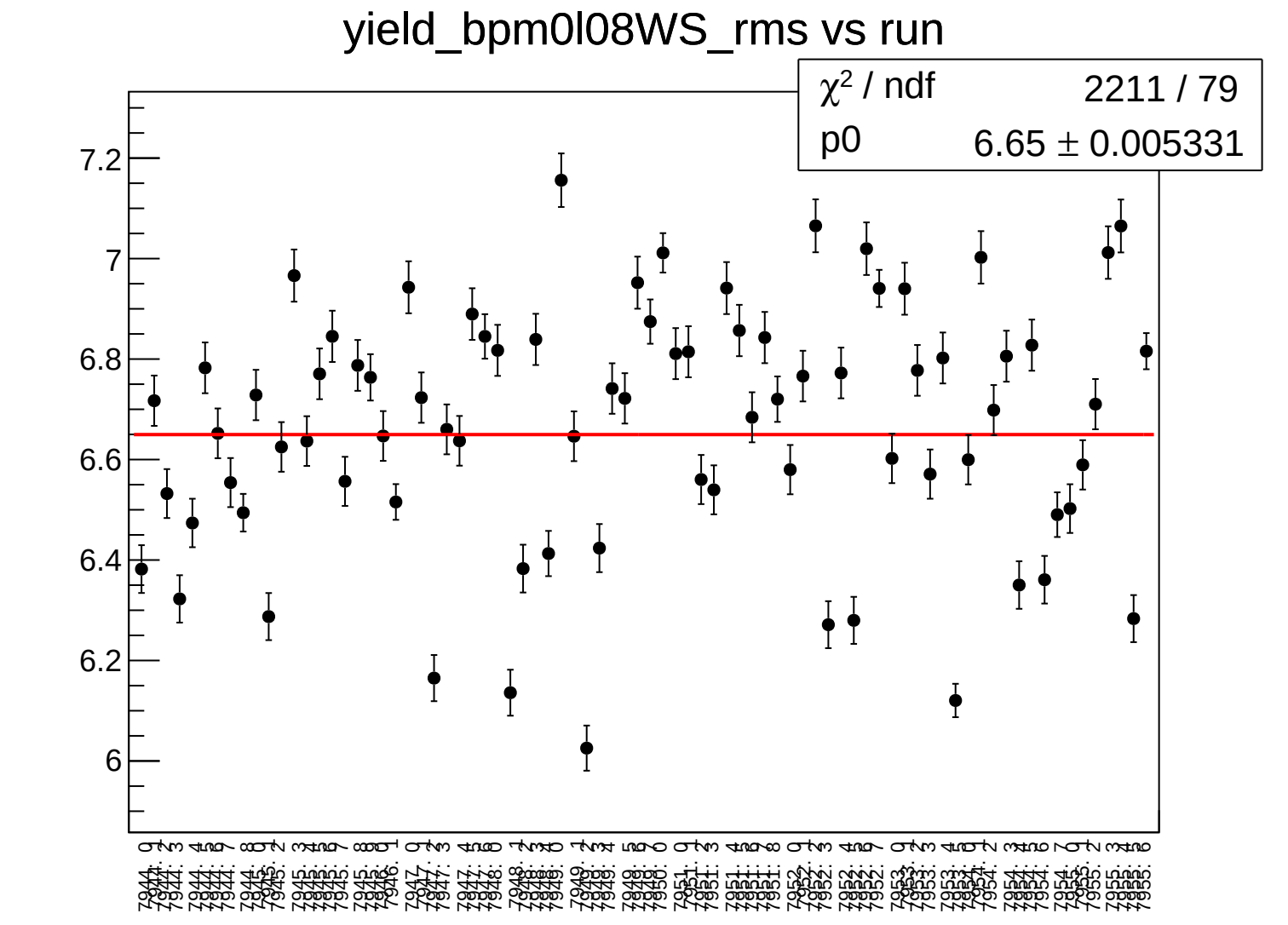

yield_bpm0l06WS_rms vs run
χ² / ndf 3606 / 79
p0 14.03 ± 0.01126
16
15.5
15
14.5
14
13.5
13
12.5

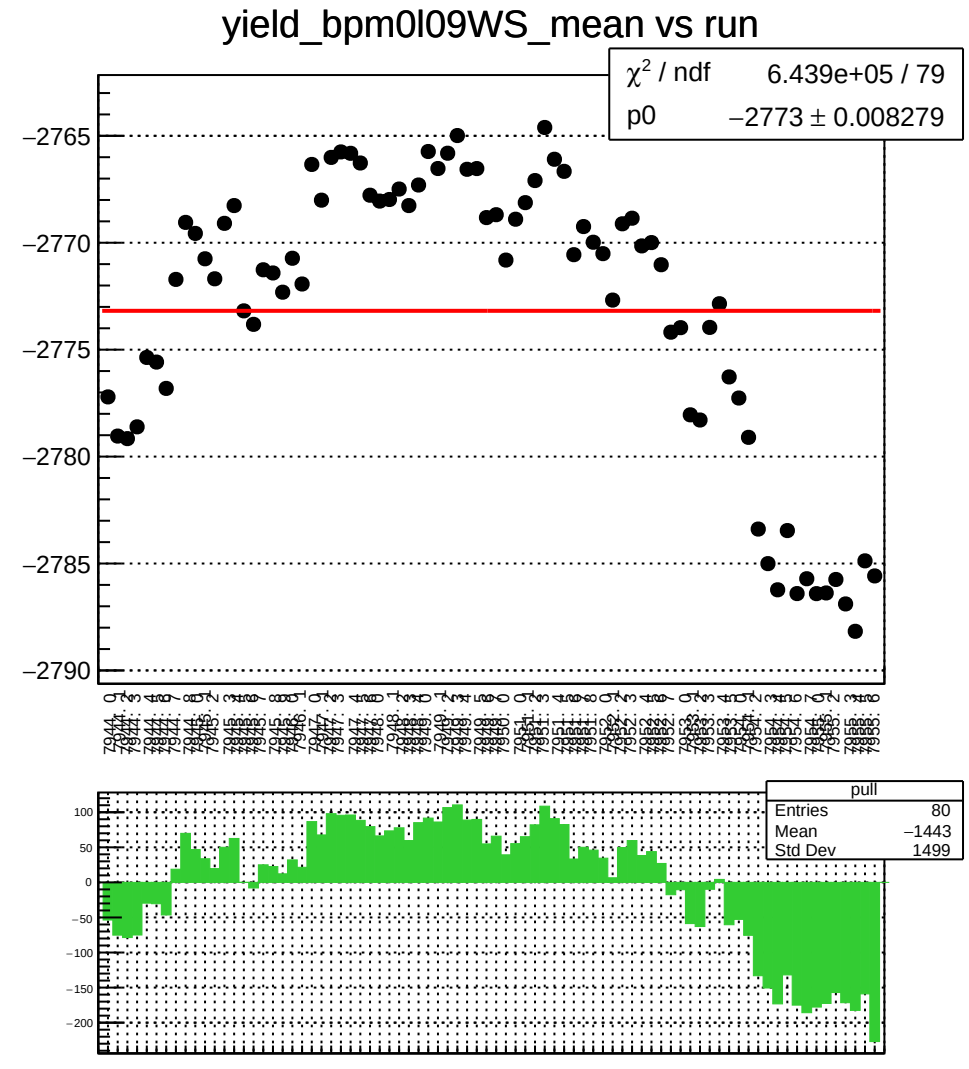

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 6949 / 79
p0 1.451e+05 ± 0.4396
145.25
145.2
145.15
145.1
145.05
pull
Entries 80
Mean −303.3
Std Dev 323.3
30
20
10
0
−10
−20

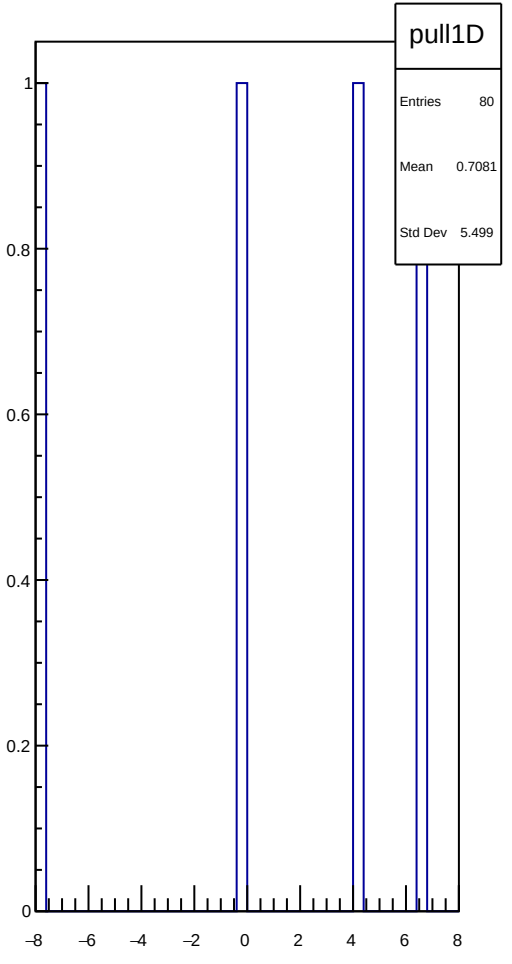

pull1D
Entries 80
Mean −0.5804
Std Dev 4.176
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

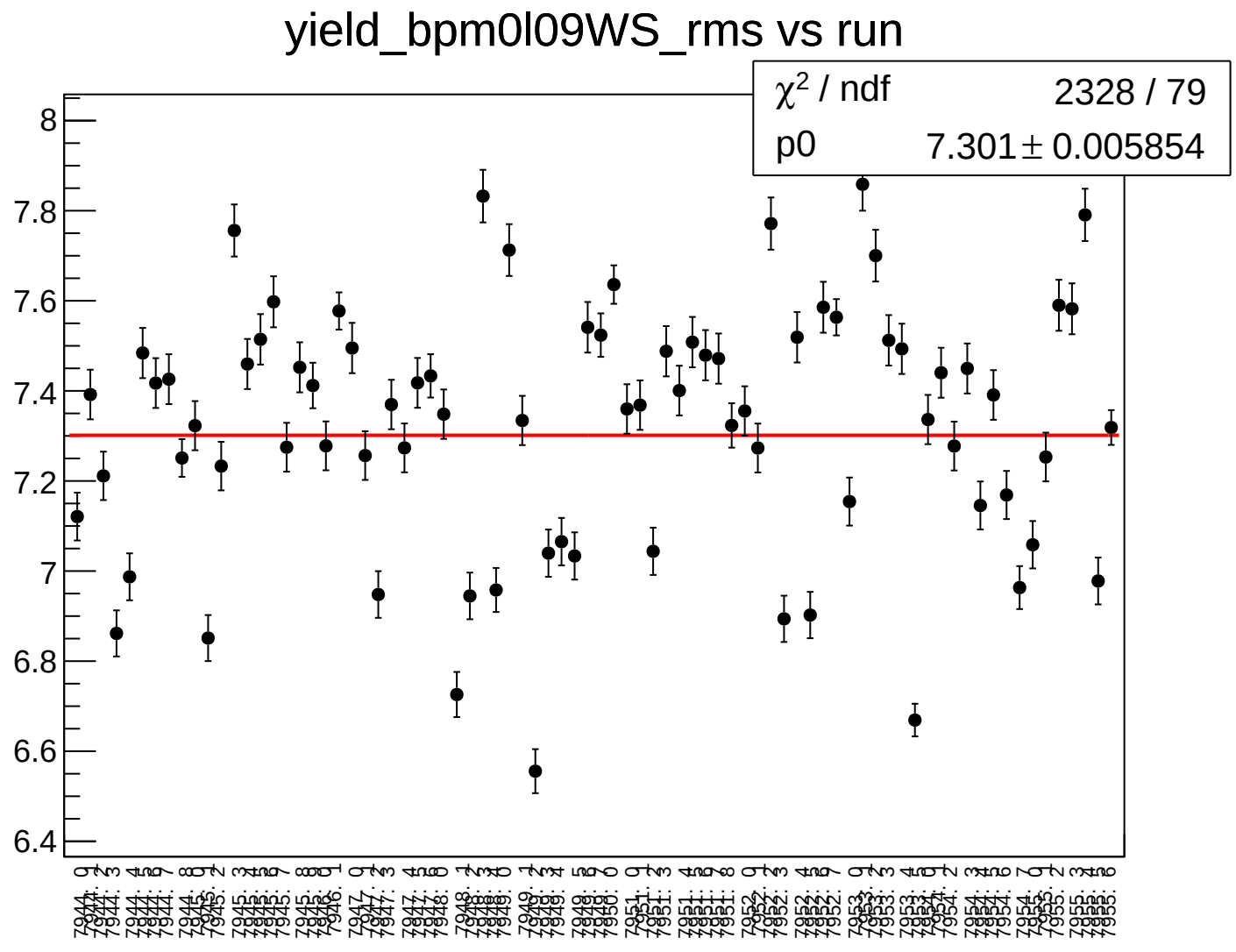

yield_bpm0l07WS_rms vs run
χ^2 / ndf 3925 / 79
p0 387.5 ± 0.3108
440
420
400
380
360
340

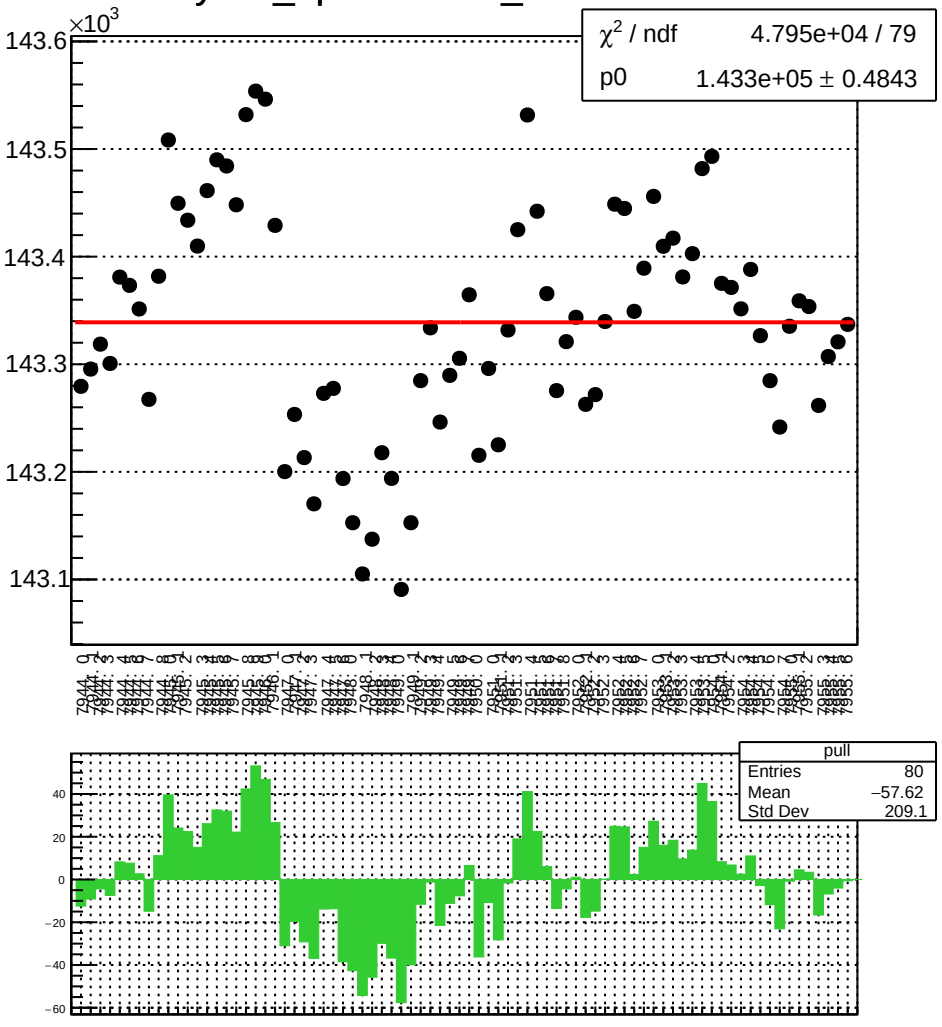

yield_bpm0l08WS_mean vs run
χ² / ndf 4.722e+05 / 79
p0 −1181 ± 0.007539
pull
Entries 80
Mean −758.9
Std Dev 825.1
pull1D
Entries 80
Mean 1.543
Std Dev 6.918

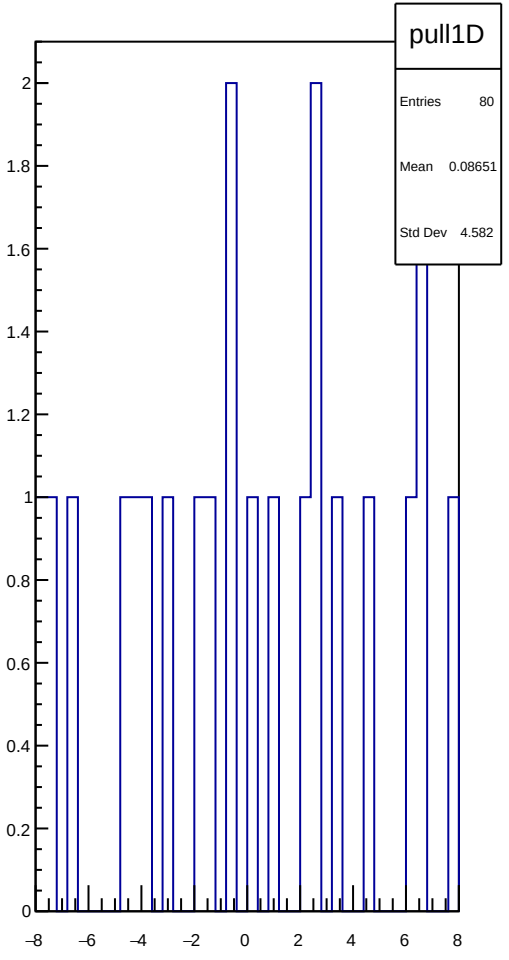

yield_bpm0l08WS_rms vs run
χ² / ndf 2211 / 79
p0 6.65 ± 0.005331
7.2
7
6.8
6.6
6.4
6.2
6

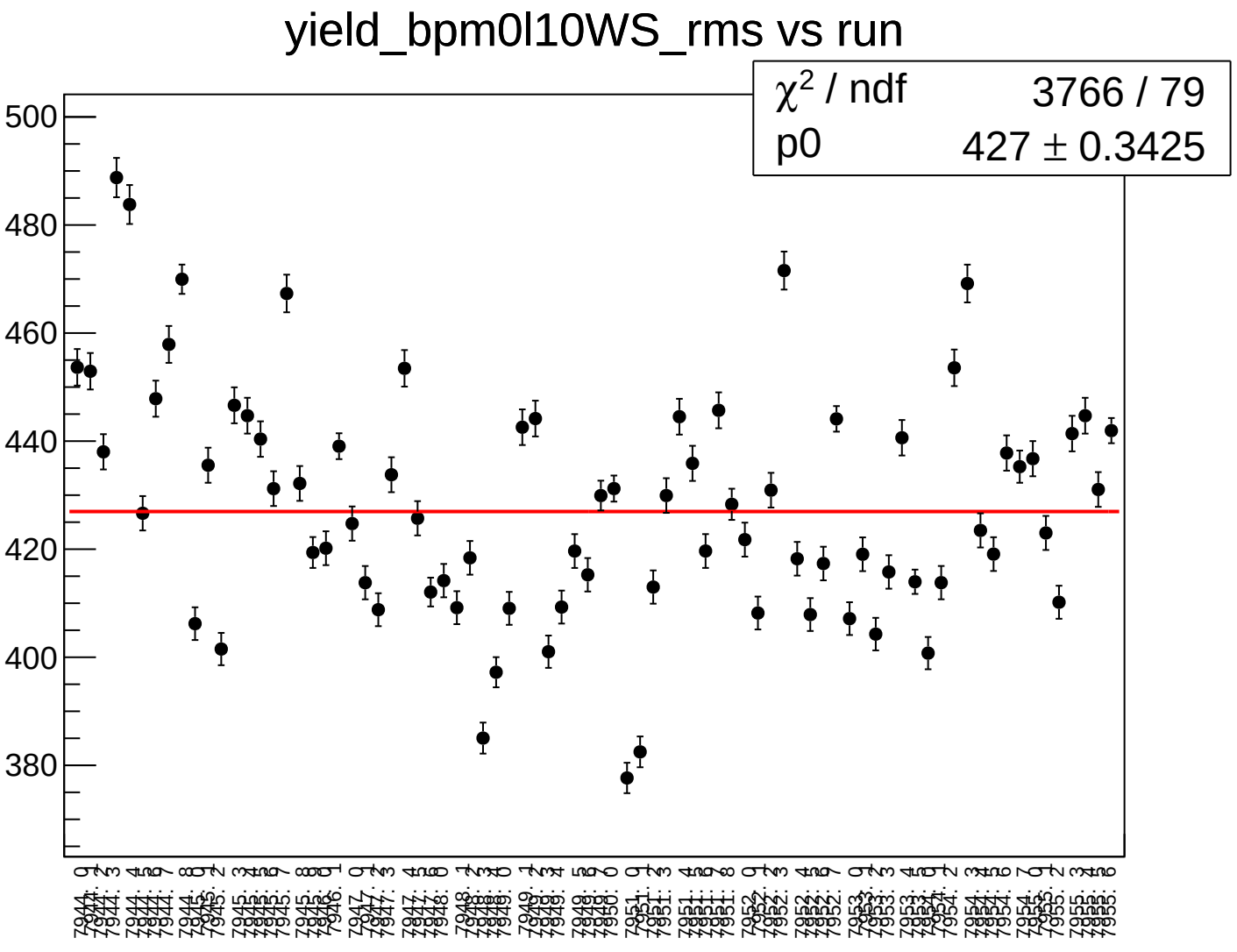

yield_bpm0l09WS_mean vs run
χ² / ndf 6.439e+05 / 79
p0 −2773 ± 0.008279
−2765
−2770
−2775
−2780
−2785
−2790
pull
Entries 80
Mean −1443
Std Dev 1499
100
50
0
−50
−100
−150
−200

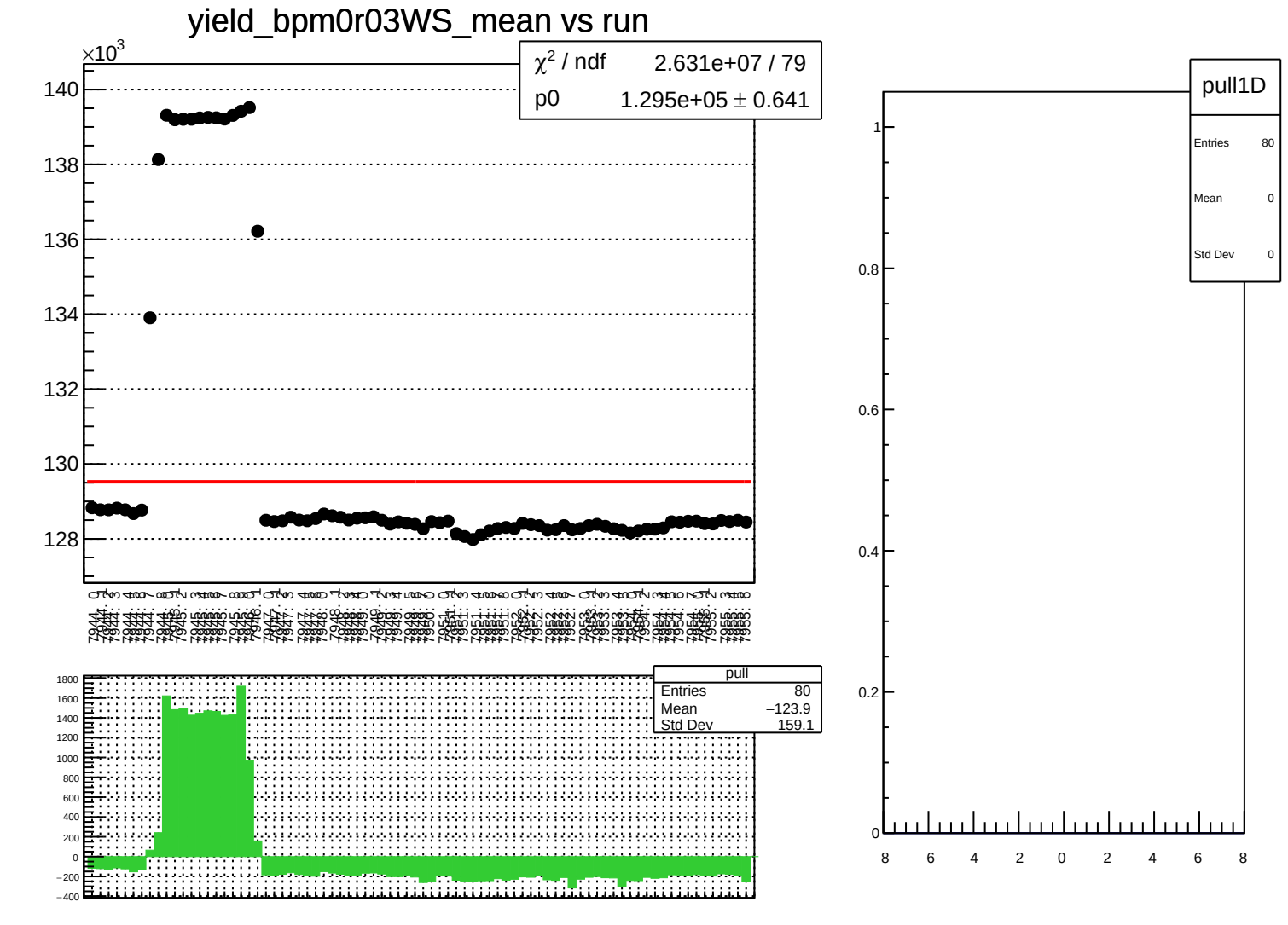

pull1D
Entries 80
Mean 0.7081
Std Dev 5.499
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

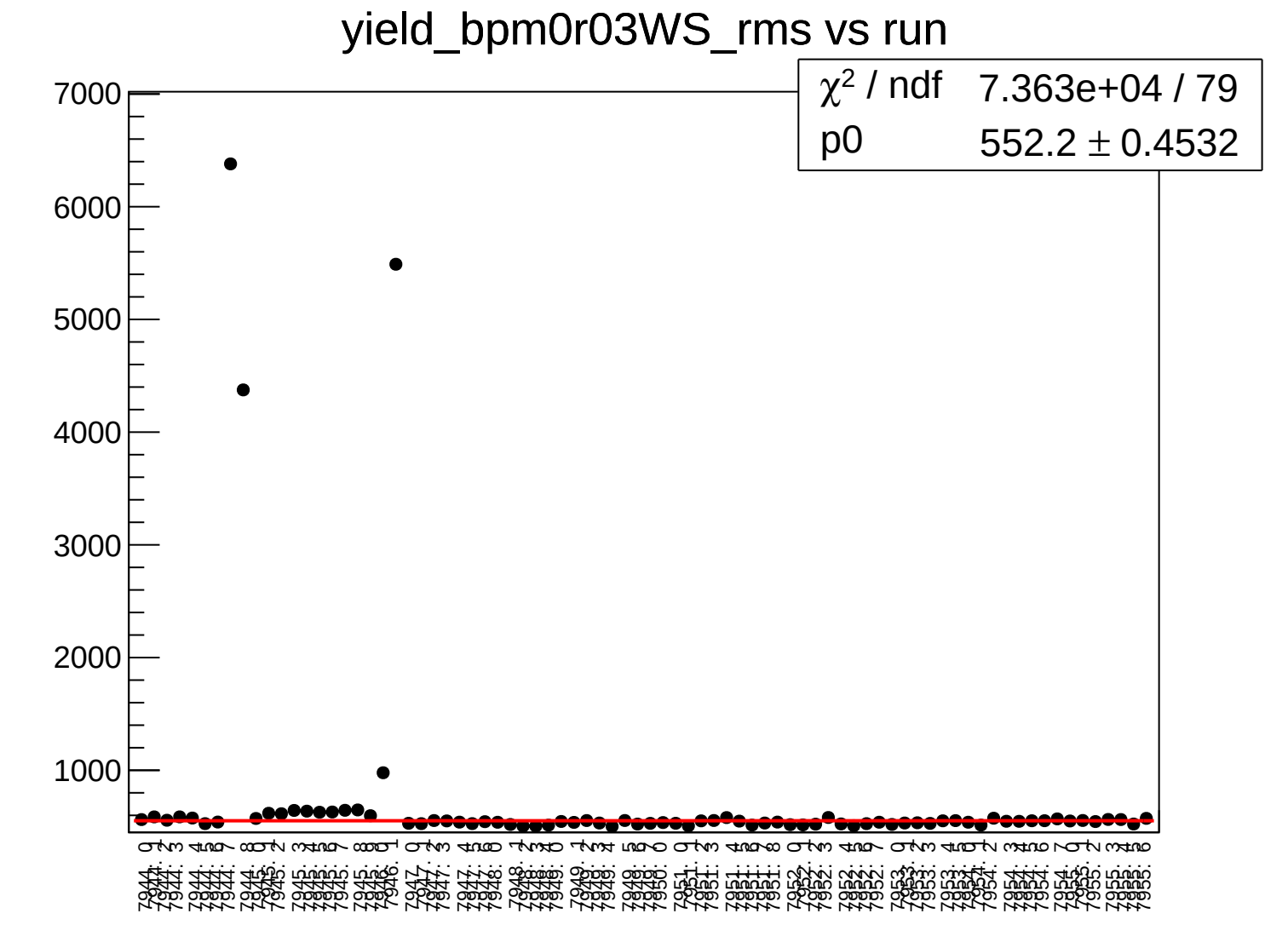

yield_bpm0l09WS_rms vs run
χ^2 / ndf 2328 / 79
p0 7.301 ± 0.005854
8
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4

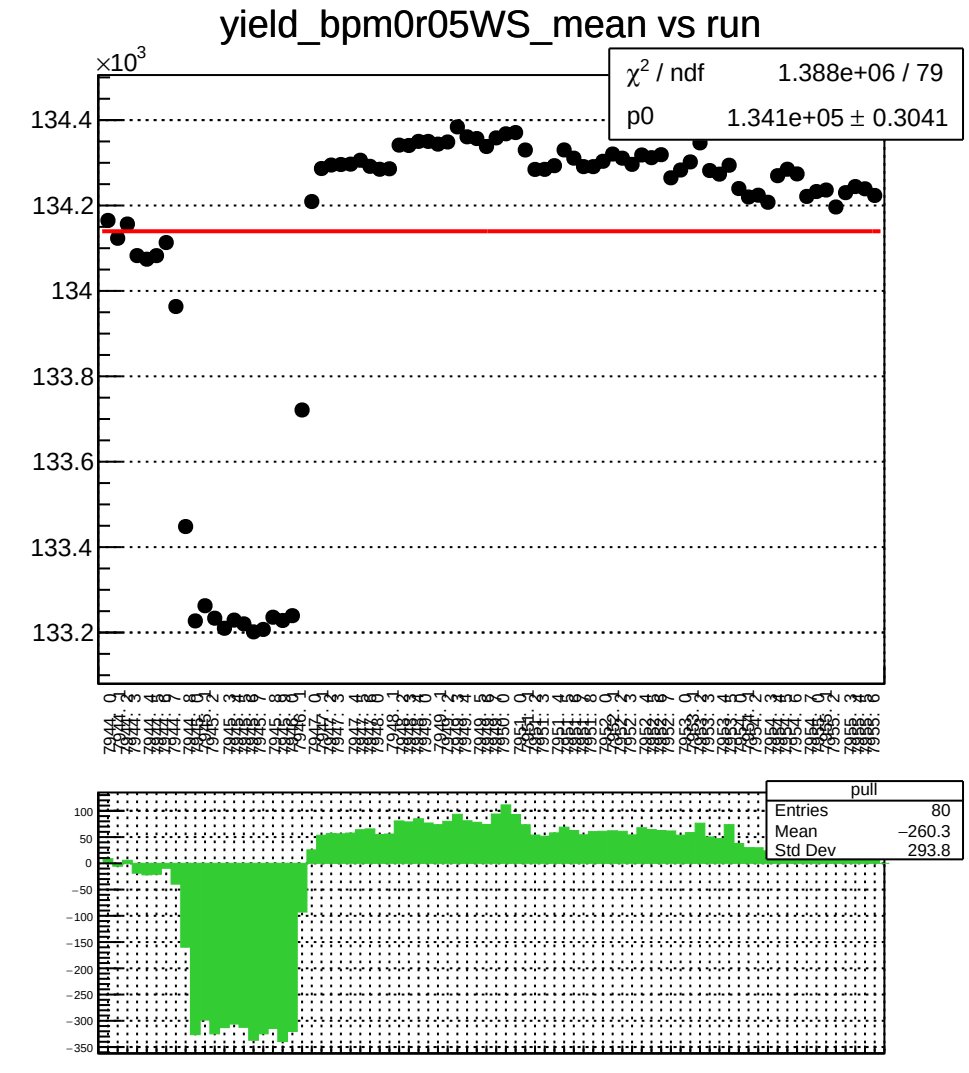

yield_bpm0l10WS_mean vs run
χ² / ndf 4.795e+04 / 79
p0 1.433e+05 ± 0.4843
×10³
143.6
143.5
143.4
143.3
143.2
143.1
pull
Entries 80
Mean −57.62
Std Dev 209.1
40
20
0
−20
−40
−60

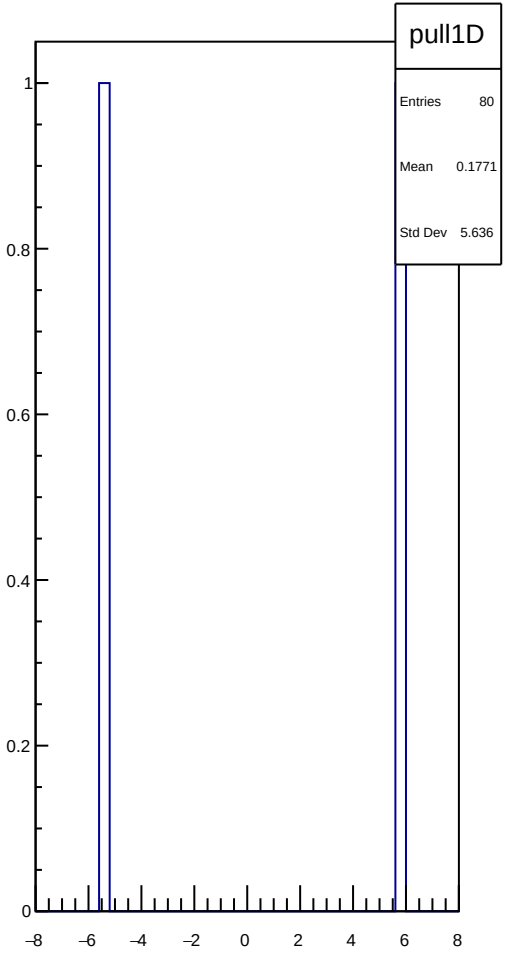

pull1D
Entries 80
Mean 0.08651
Std Dev 4.582
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

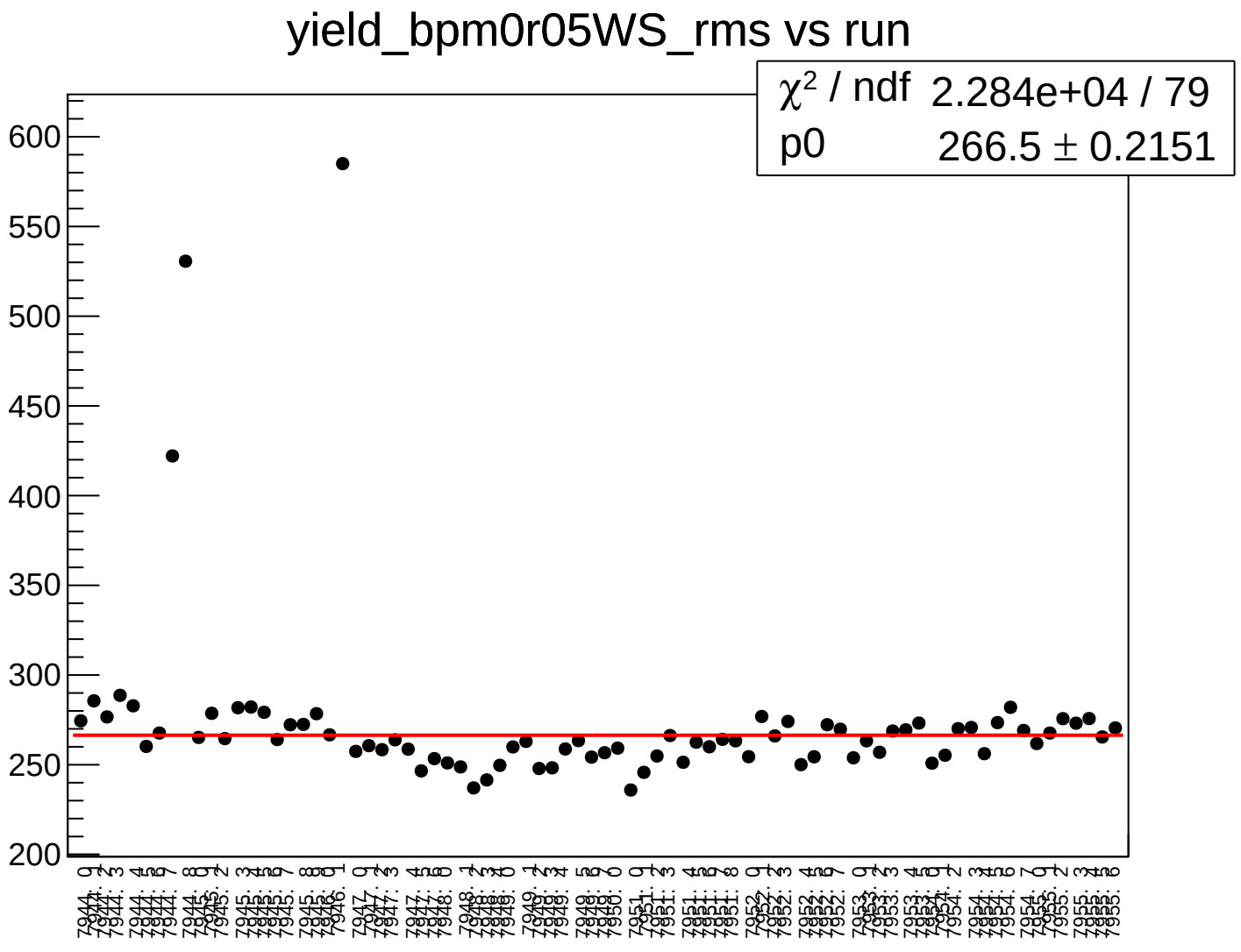

yield_bpm0l10WS_rms vs run
χ² / ndf 3766 / 79
p0 427 ± 0.3425
500
480
460
440
420
400
380

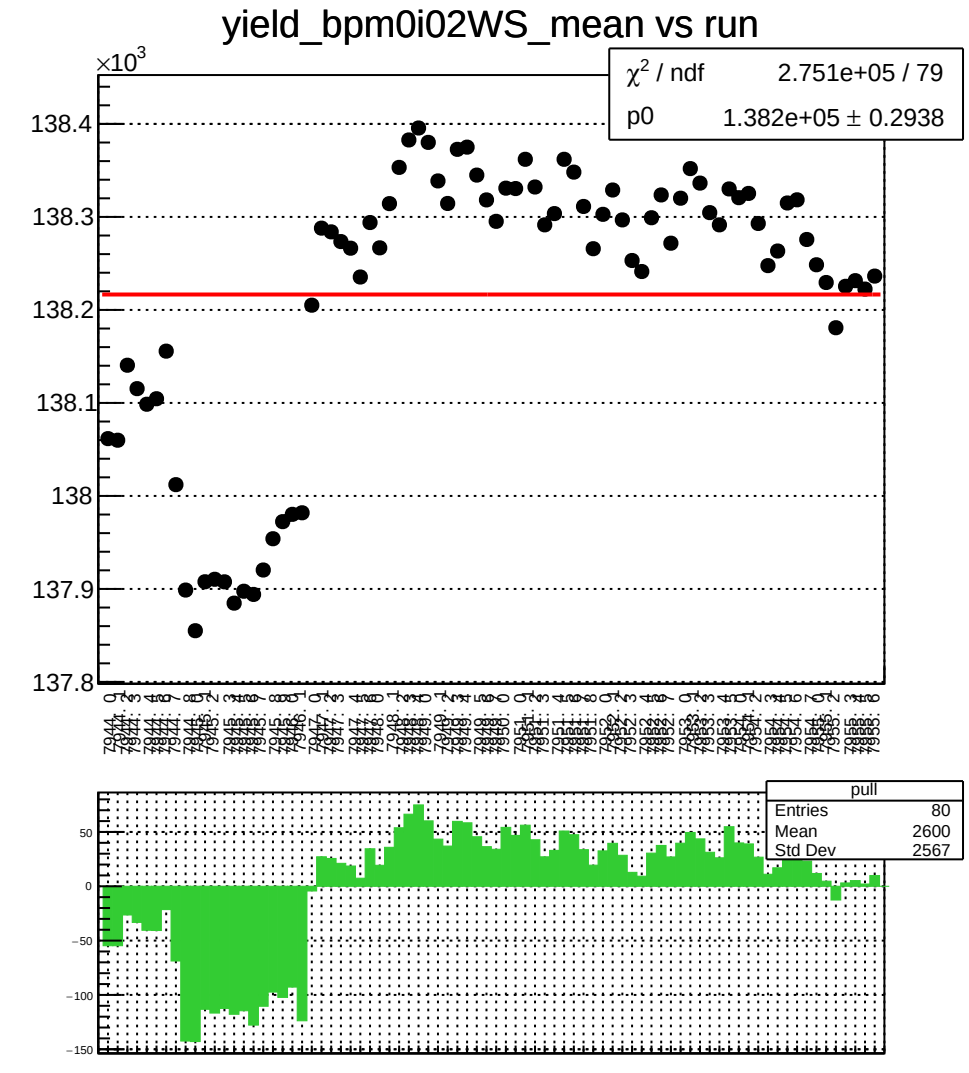

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.631e+07 / 79
p0 1.295e+05 ± 0.641
140
138
136
134
132
130
128
pull
Entries 80
Mean −123.9
Std Dev 159.1
1800
1600
1400
1200
1000
800
600
400
200
0
−200
−400
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

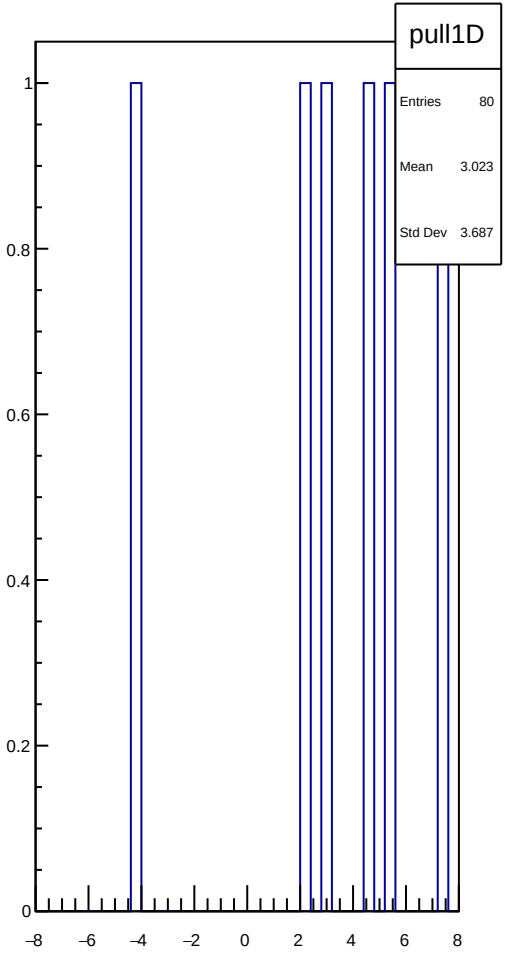

yield_bpm0r03WS_rms vs run
χ^2 / ndf 7.363e+04 / 79
p0 552.2 ± 0.4532
7000
6000
5000
4000
3000
2000
1000

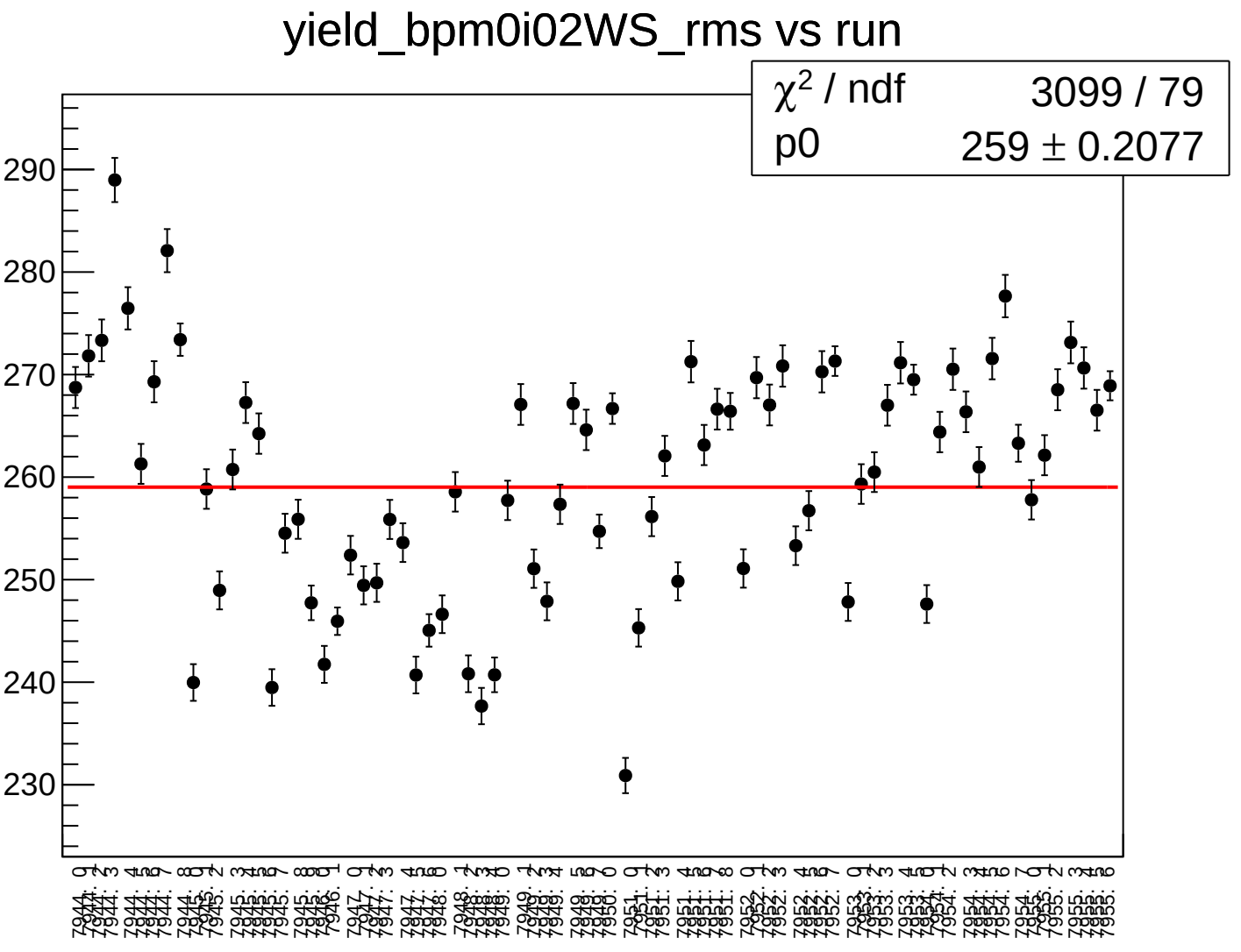

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.388e+06 / 79
p0 1.341e+05 ± 0.3041
134.4
134.2
134
133.8
133.6
133.4
133.2
pull
Entries 80
Mean −260.3
Std Dev 293.8
100
50
0
−50
−100
−150
−200
−250
−300
−350

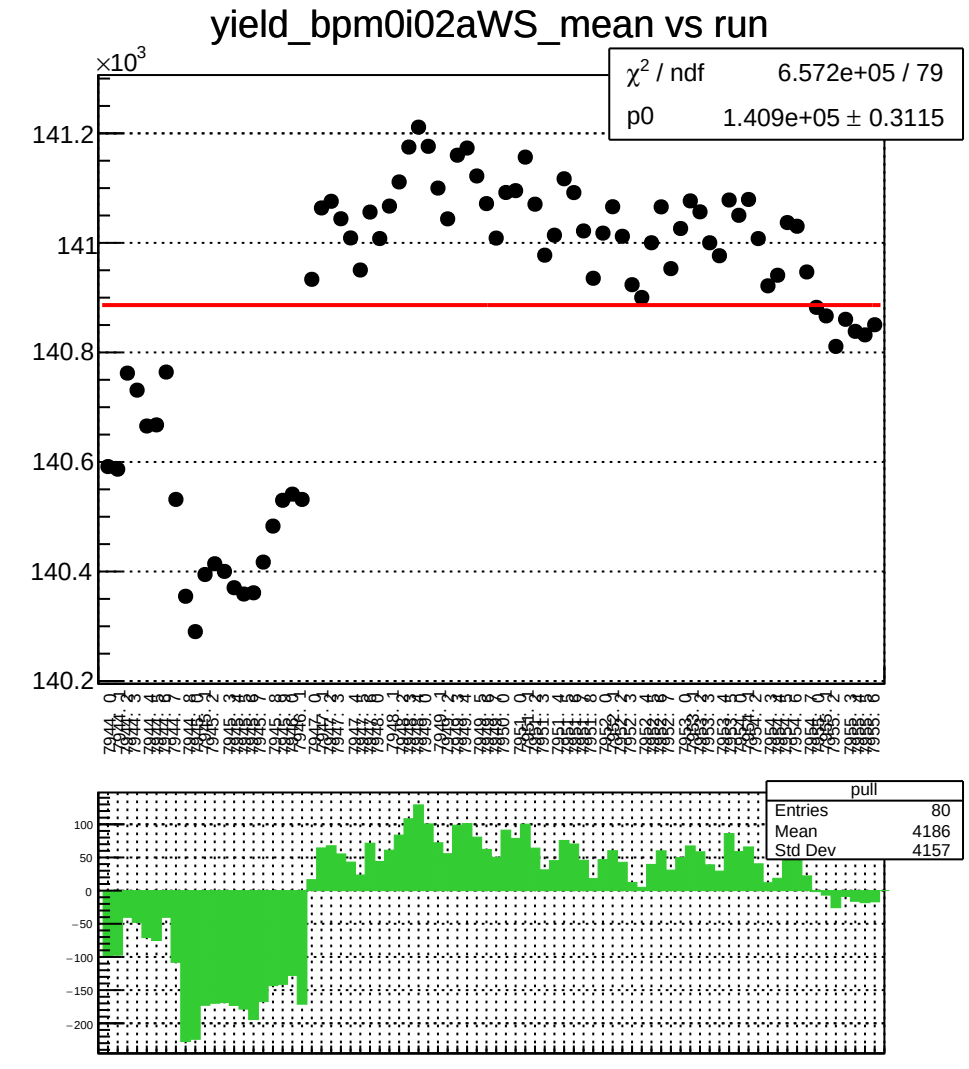

pull1D
Entries 80
Mean 0.1771
Std Dev 5.636
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

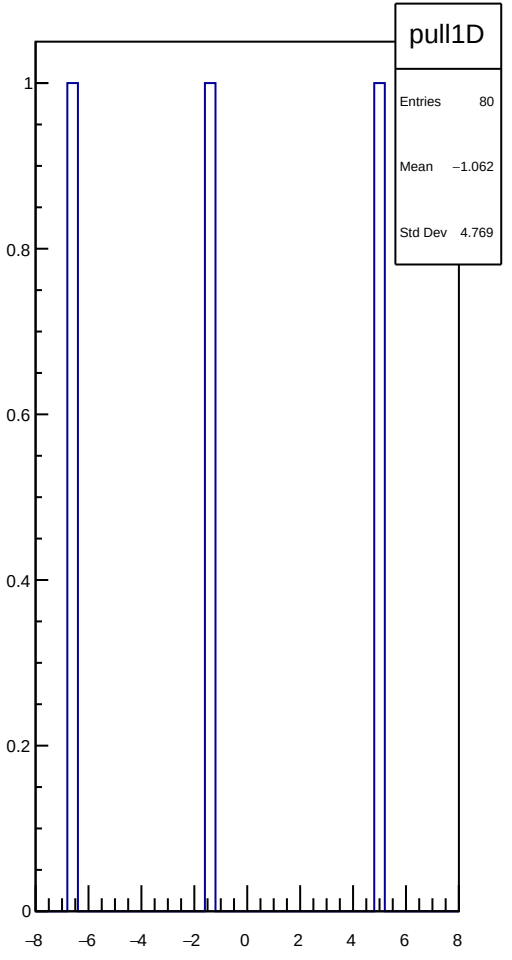

yield_bpm0r05WS_rms vs run
χ² / ndf 2.284e+04 / 79
p0 266.5 ± 0.2151
600
550
500
450
400
350
300
250
200


yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.751e+05 / 79
p0 1.382e+05 ± 0.2938
138.4
138.3
138.2
138.1
138
137.9
137.8
pull
Entries 80
Mean 2600
Std Dev 2567
50
0
−50
−100
−150

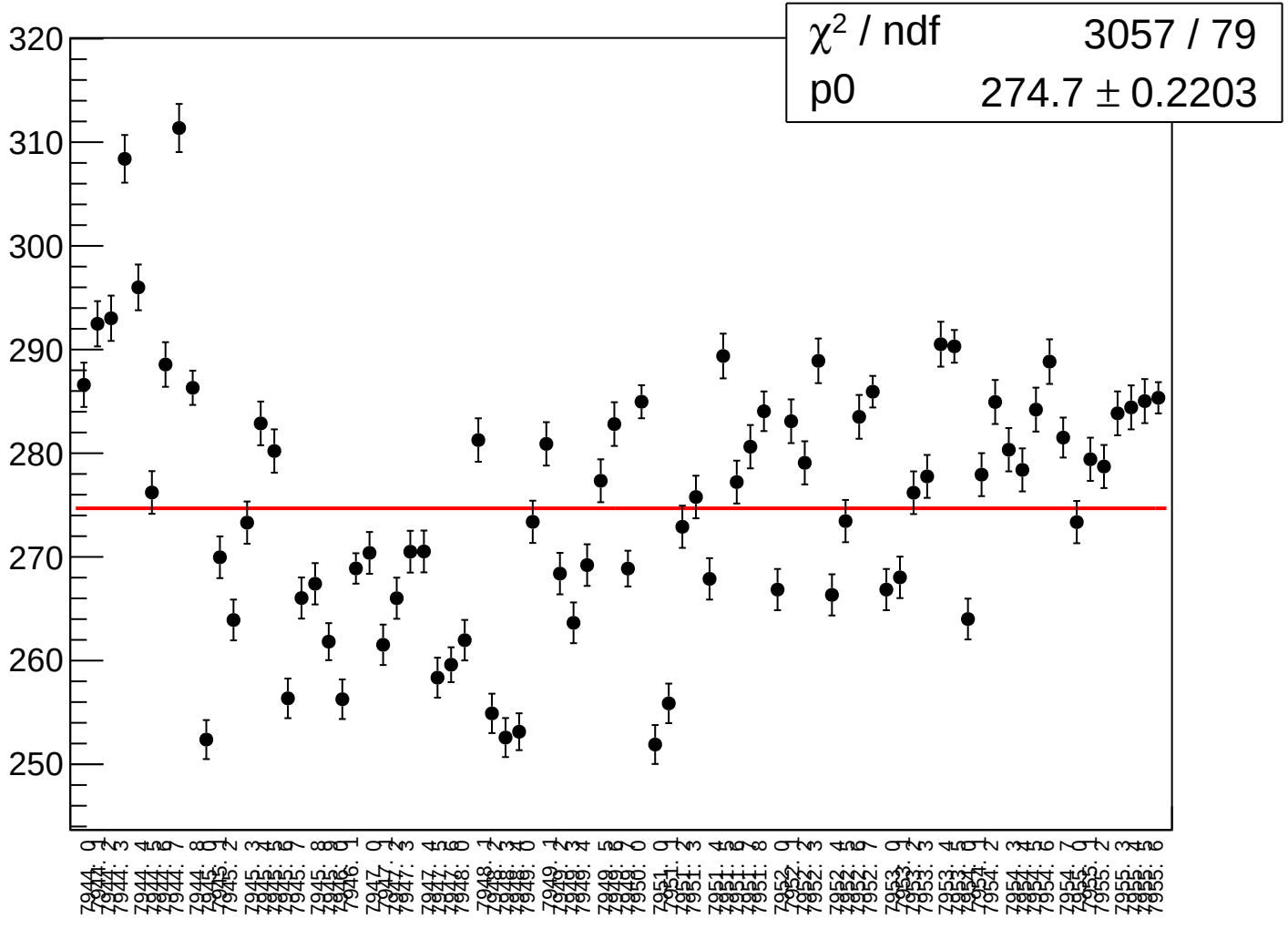

pull1D
Entries 80
Mean 3.023
Std Dev 3.687
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

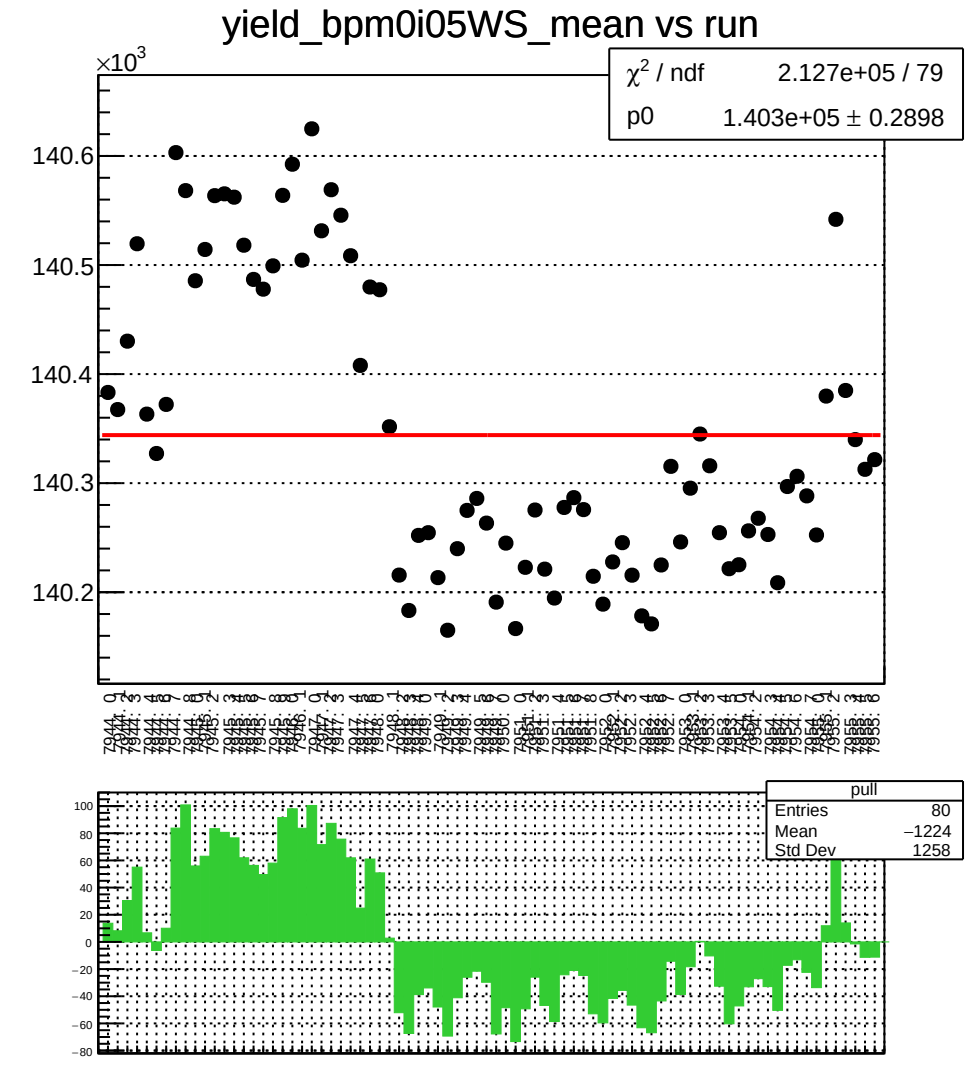

yield_bpm0i02WS_rms vs run
χ² / ndf 3099 / 79
p0 259 ± 0.2077
290
280
270
260
250
240
230

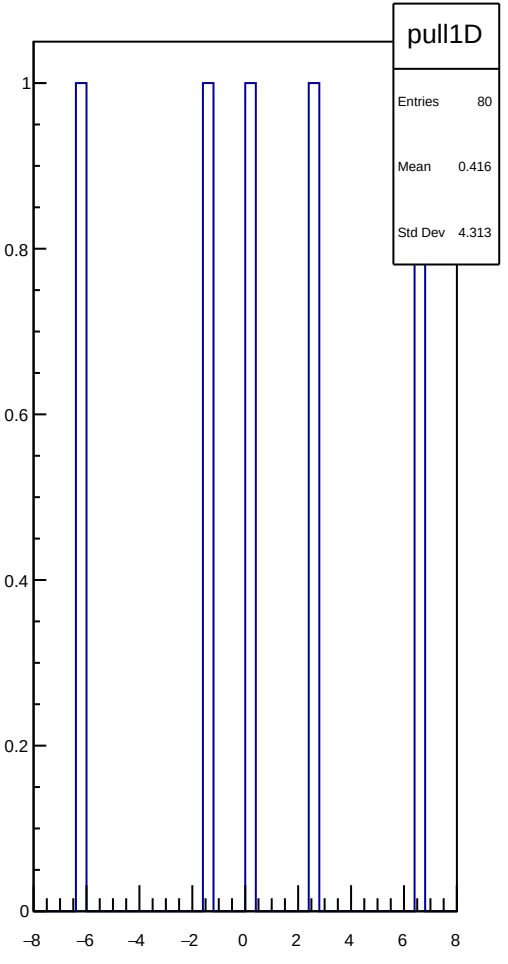

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 6.572e+05 / 79
p0 1.409e+05 ± 0.3115
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 80
Mean 4186
Std Dev 4157
100
50
0
−50
−100
−150
−200

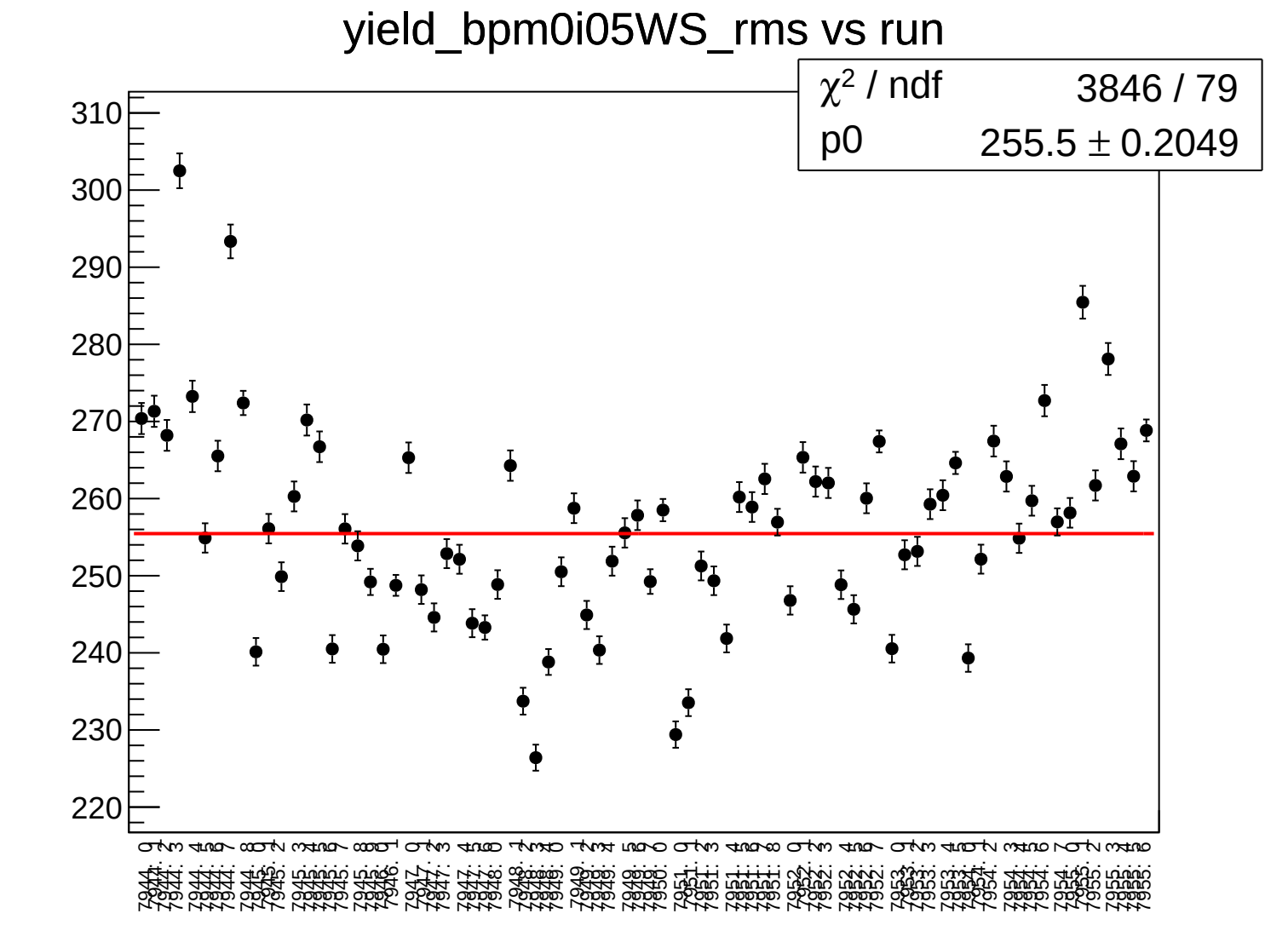

pull1D
Entries 80
Mean −1.062
Std Dev 4.769
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

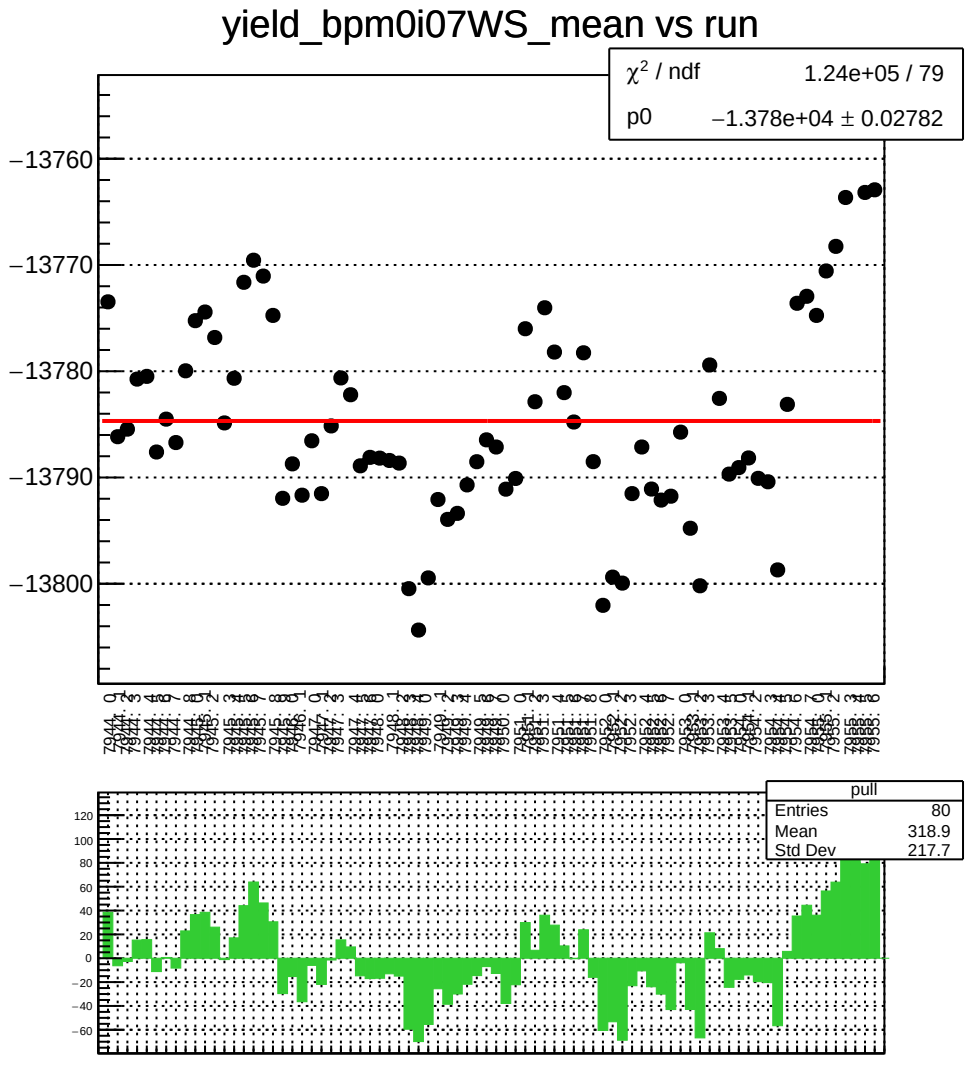
yield_bpm0i02aWS_rms vs run

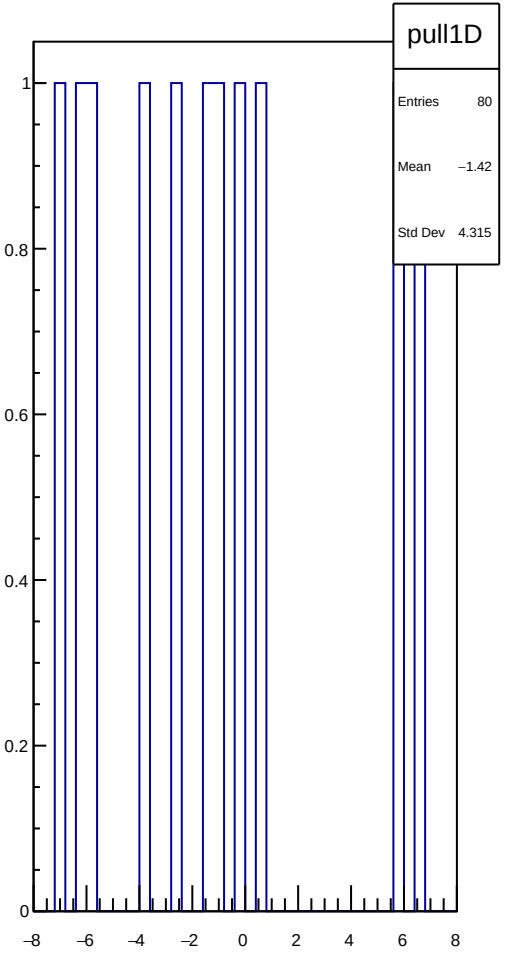


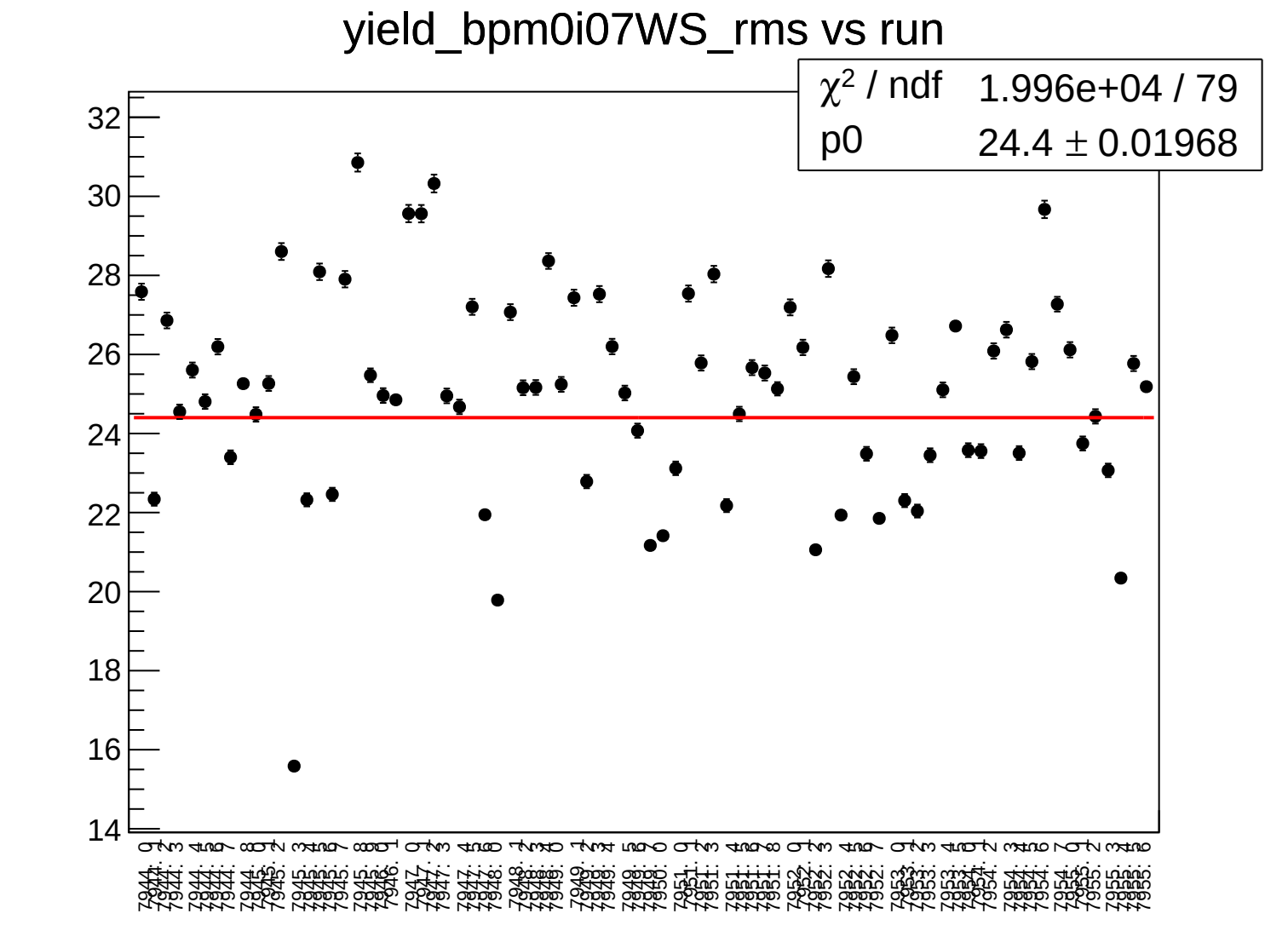

yield_bpm0i05WS_mean vs run
χ² / ndf 2.127e+05 / 79
p0 1.403e+05 ± 0.2898
×10³
140.6
140.5
140.4
140.3
140.2
pull
Entries 80
Mean −1224
Std Dev 1258
100
80
60
40
20
0
−20
−40
−60
−80

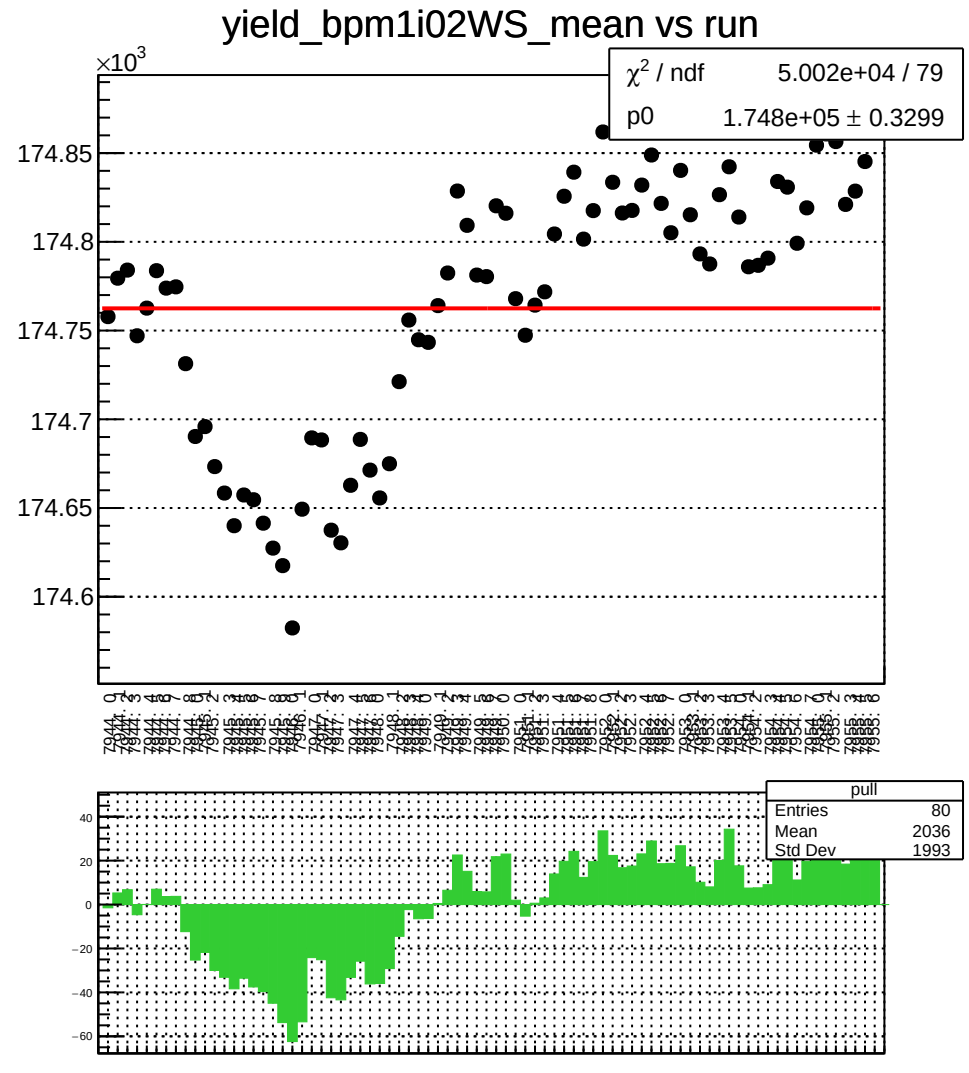

pull1D
Entries 80
Mean 0.416
Std Dev 4.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

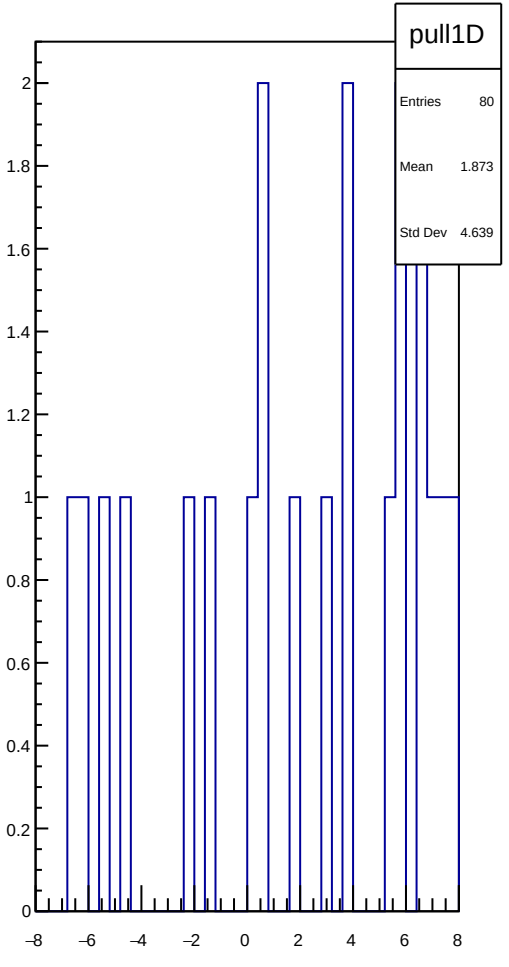

yield_bpm0i05WS_rms vs run
χ^2 / ndf 3846 / 79
p0 255.5 ± 0.2049
310
300
290
280
270
260
250
240
230
220

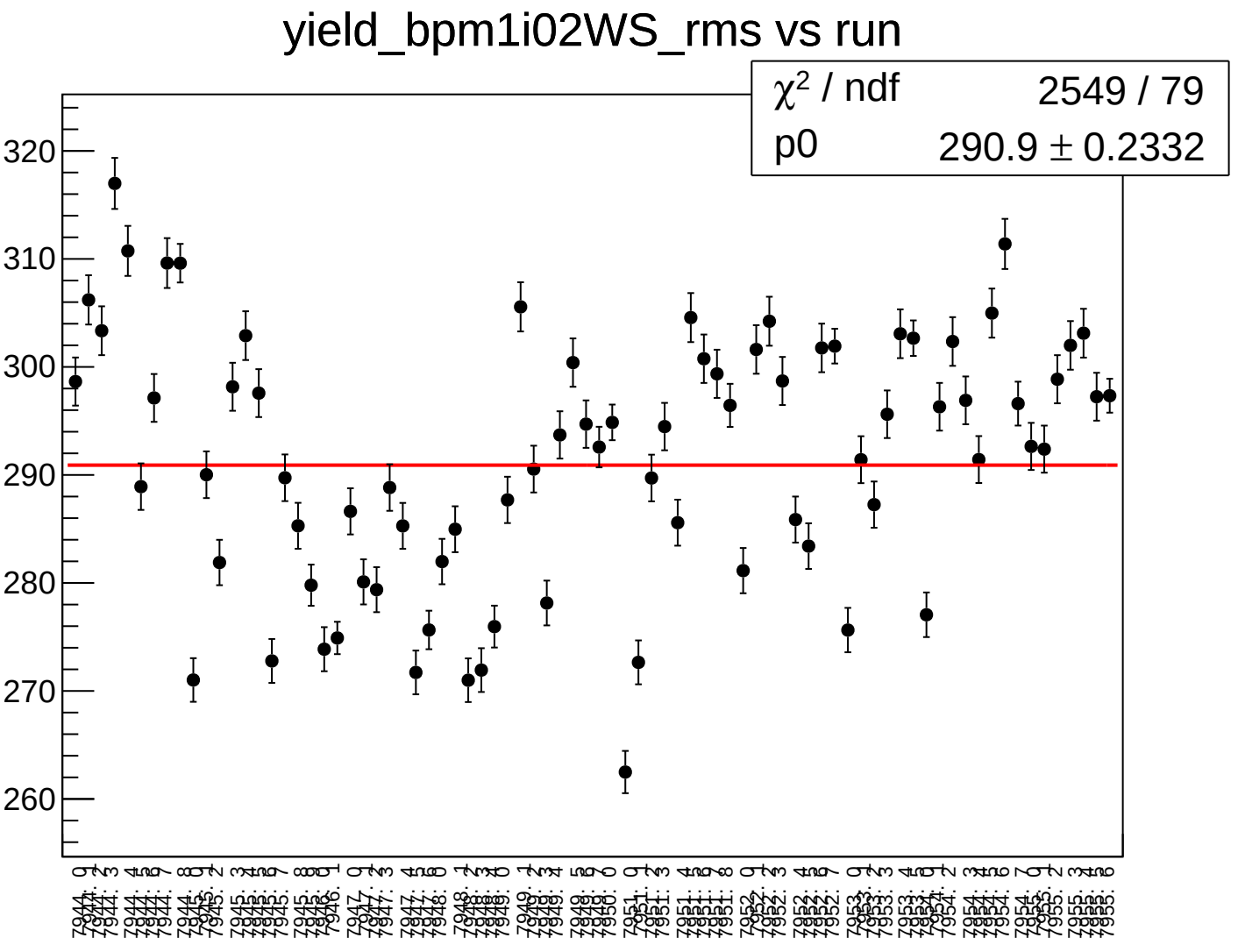

yield_bpm0i07WS_mean vs run
χ² / ndf 1.24e+05 / 79
p0 −1.378e+04 ± 0.02782
−13760
−13770
−13780
−13790
−13800
pull
Entries 80
Mean 318.9
Std Dev 217.7
120
100
80
60
40
20
0
−20
−40
−60

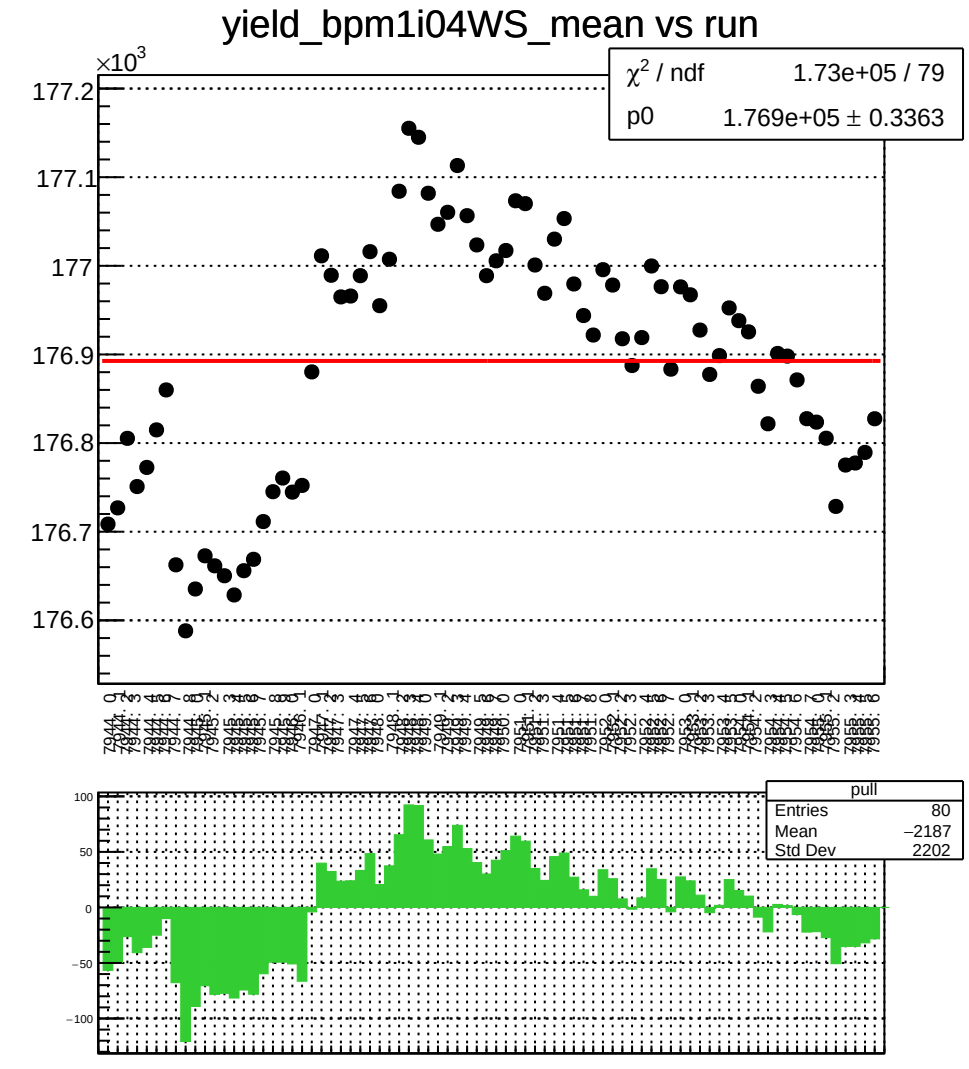

pull1D
Entries 80
Mean −1.42
Std Dev 4.315
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

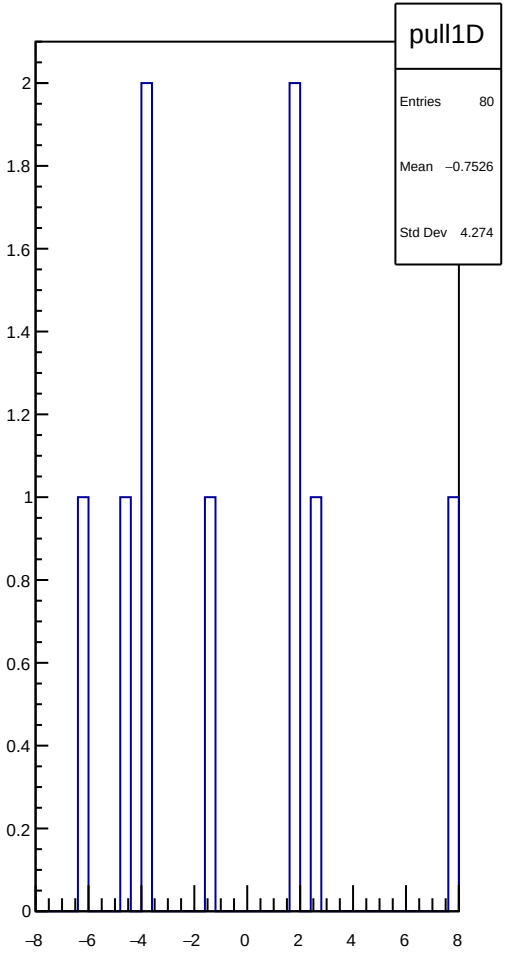

yield_bpm0i07WS_rms vs run
χ² / ndf 1.996e+04 / 79
p0 24.4 ± 0.01968
32
30
28
26
24
22
20
18
16
14

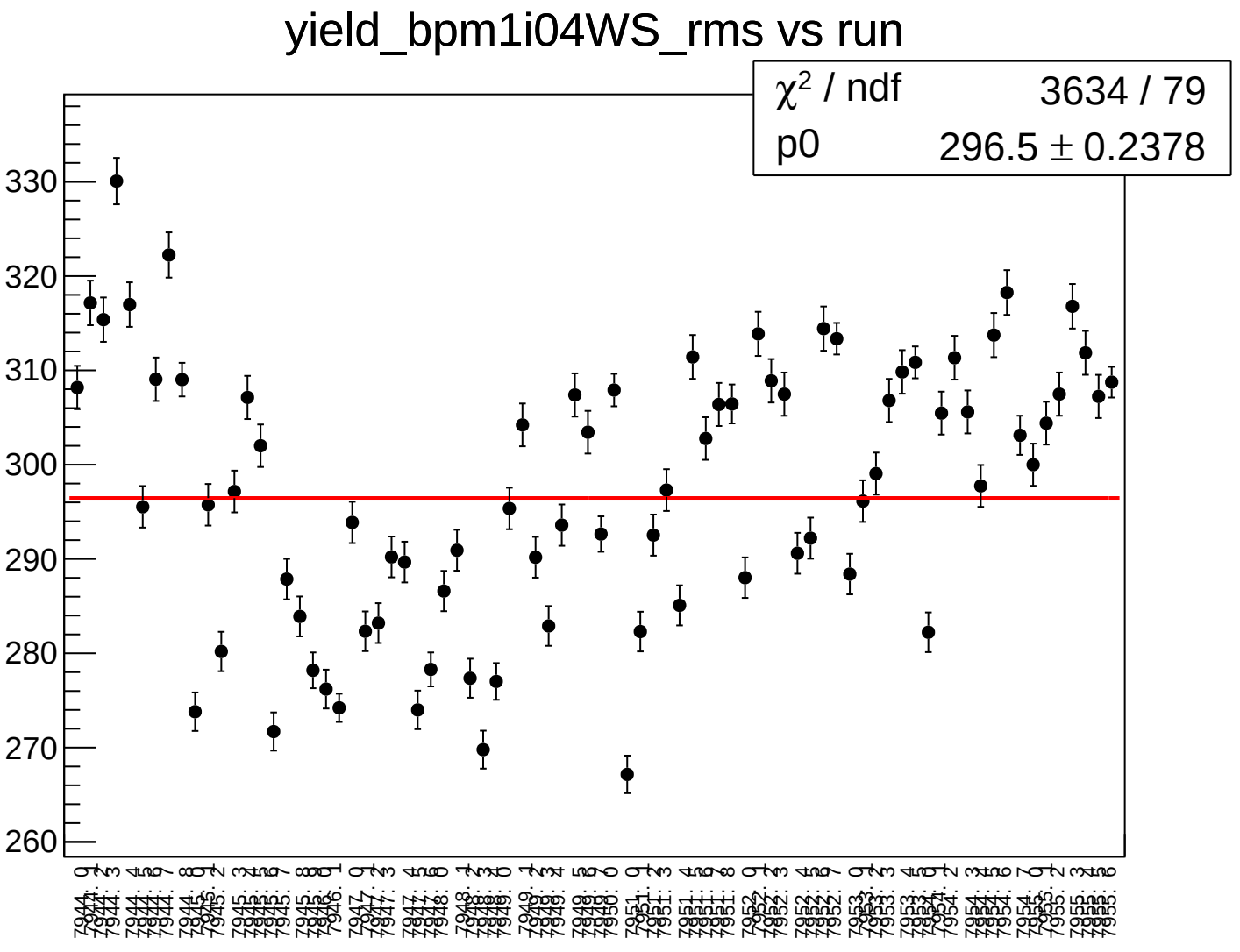

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.002e+04 / 79
p0 1.748e+05 ± 0.3299
174.85
174.8
174.75
174.7
174.65
174.6
pull
Entries 80
Mean 2036
Std Dev 1993
40
20
0
−20
−40
−60

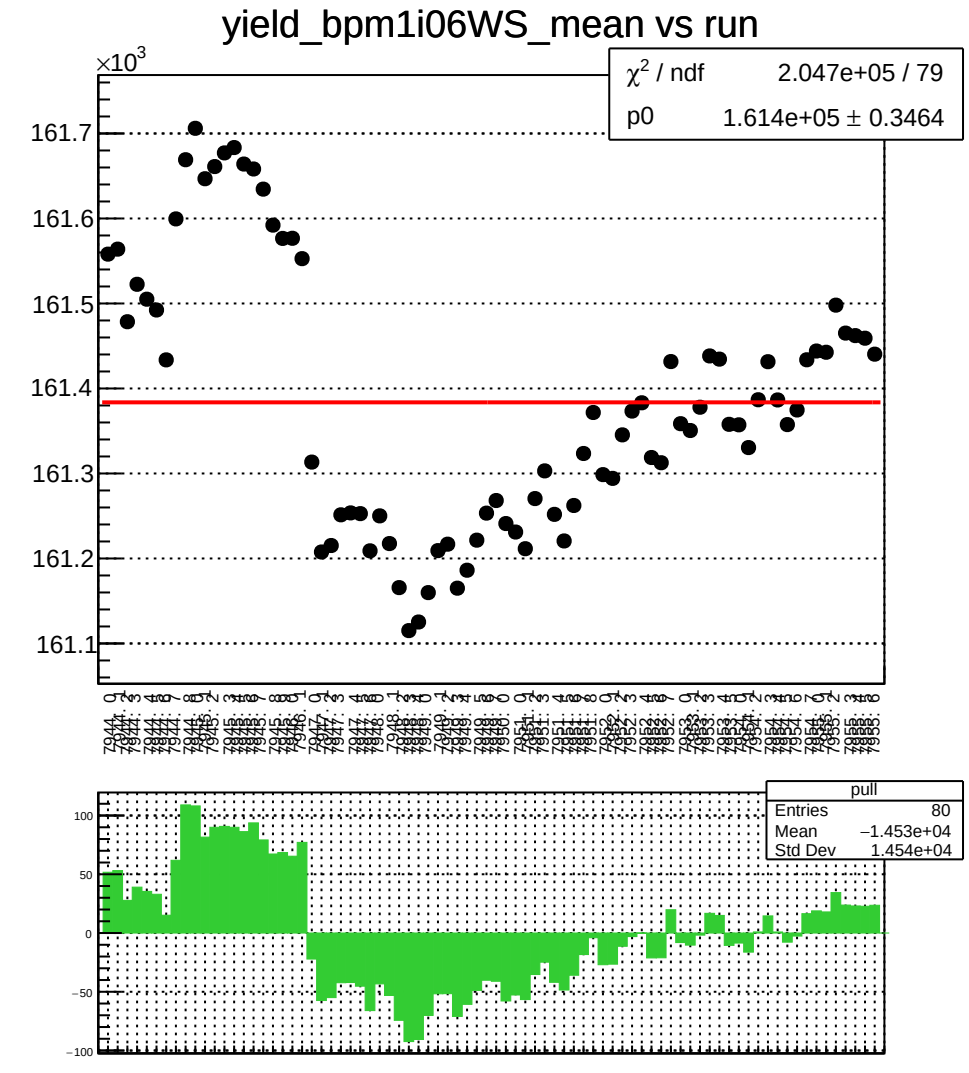

pull1D
Entries 80
Mean 1.873
Std Dev 4.639
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

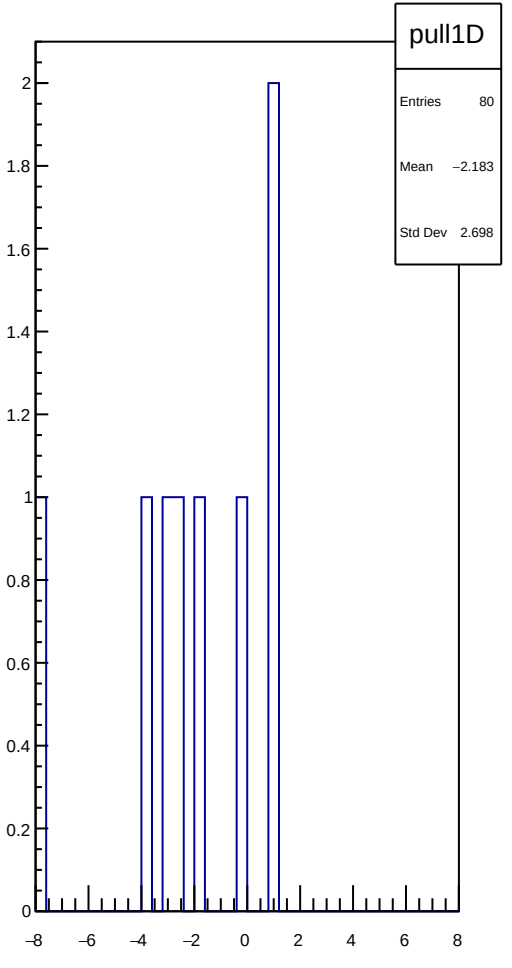

yield_bpm1i02WS_rms vs run
χ² / ndf 2549 / 79
p0 290.9 ± 0.2332
320
310
300
290
280
270
260

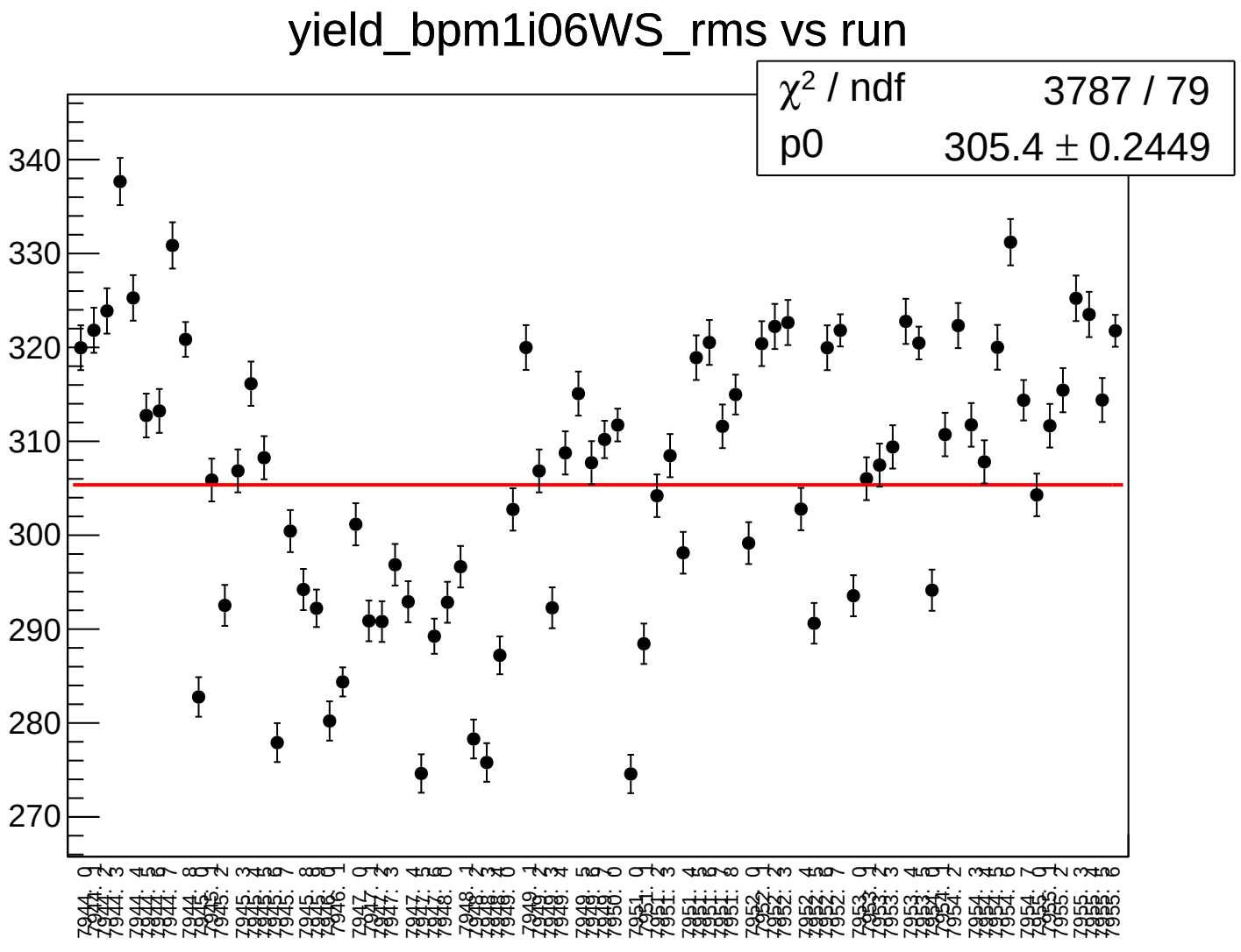

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.73e+05 / 79
p0 1.769e+05 ± 0.3363
177.2
177.1
177
176.9
176.8
176.7
176.6
pull
Entries 80
Mean −2187
Std Dev 2202
100
50
0
−50
−100

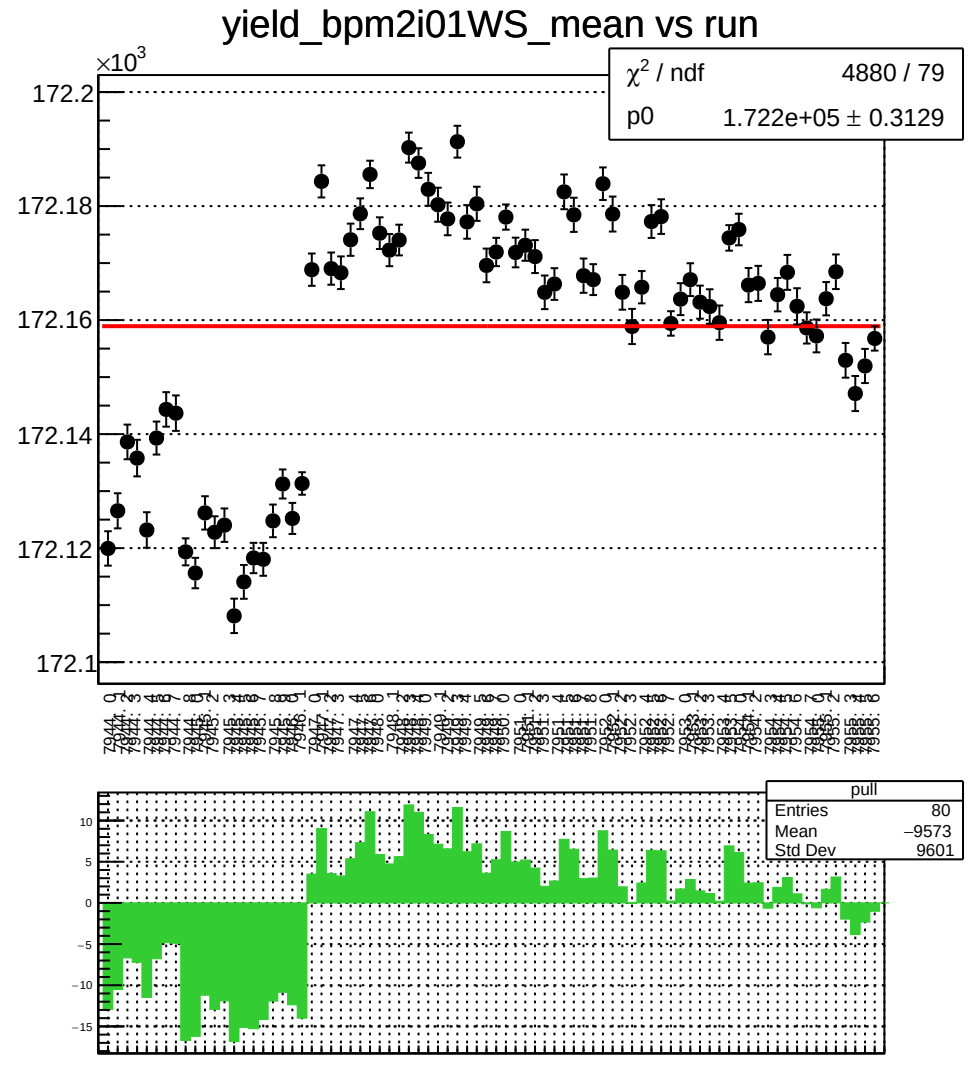

pull1D
Entries 80
Mean −0.7526
Std Dev 4.274
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

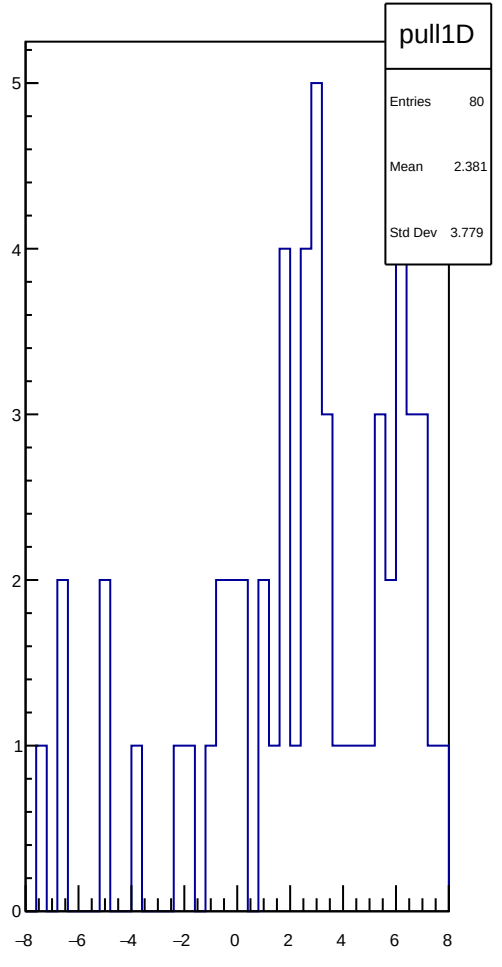

yield_bpm1i04WS_rms vs run
χ² / ndf 3634 / 79
p0 296.5 ± 0.2378
330
320
310
300
290
280
270
260

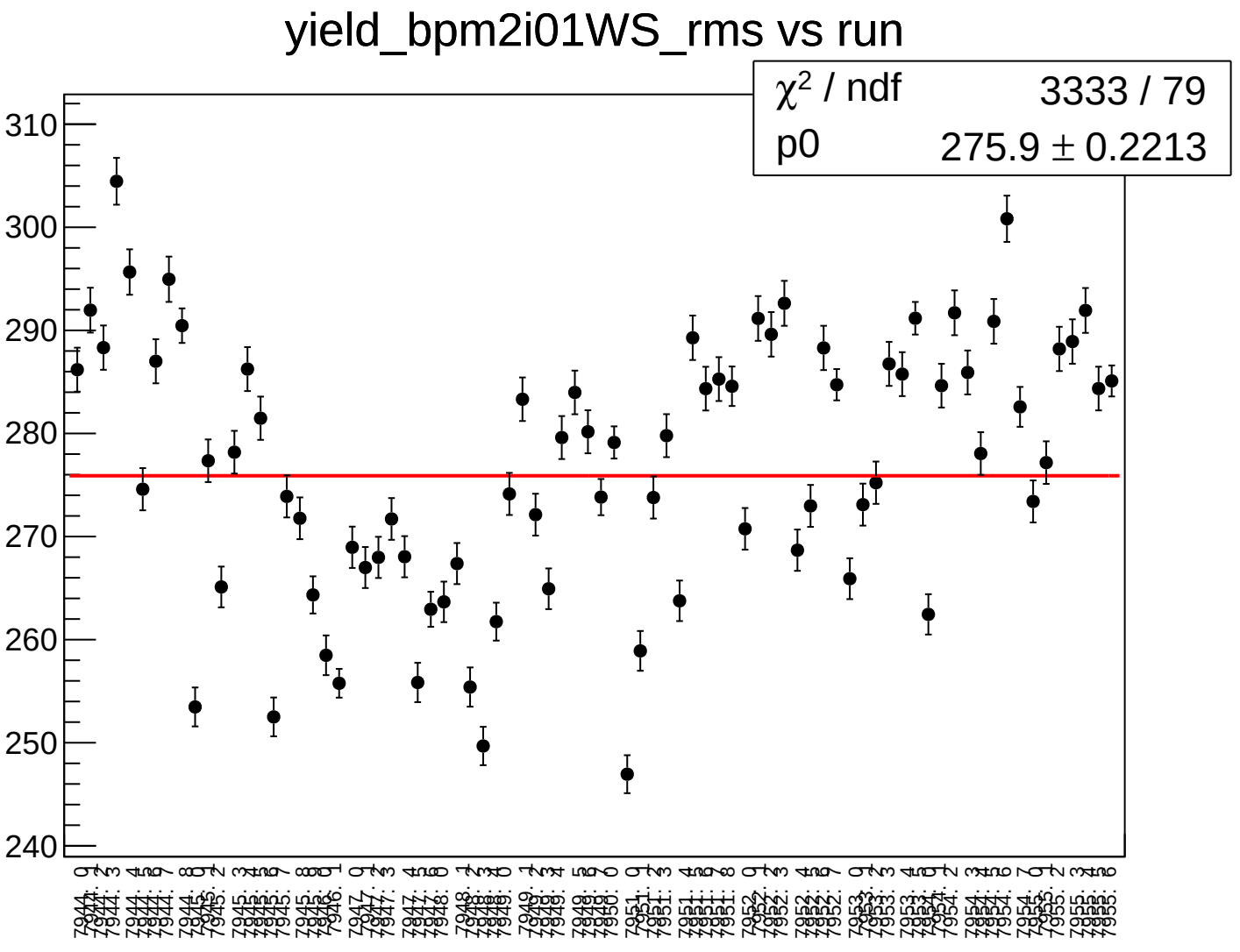

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.047e+05 / 79
p0 1.614e+05 ± 0.3464
161.7
161.6
161.5
161.4
161.3
161.2
161.1
pull
Entries 80
Mean −1.453e+04
Std Dev 1.454e+04
100
50
0
−50
−100

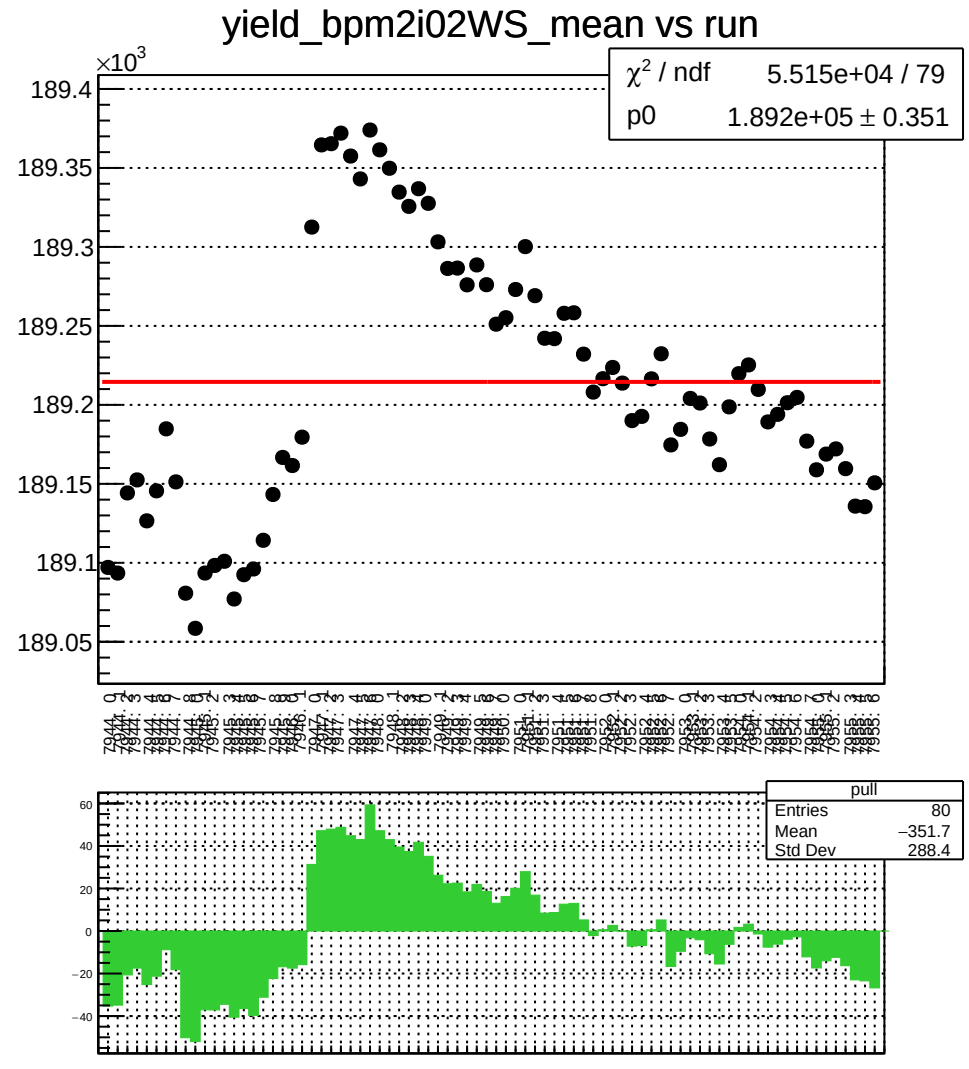

pull1D
Entries 80
Mean −2.183
Std Dev 2.698
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

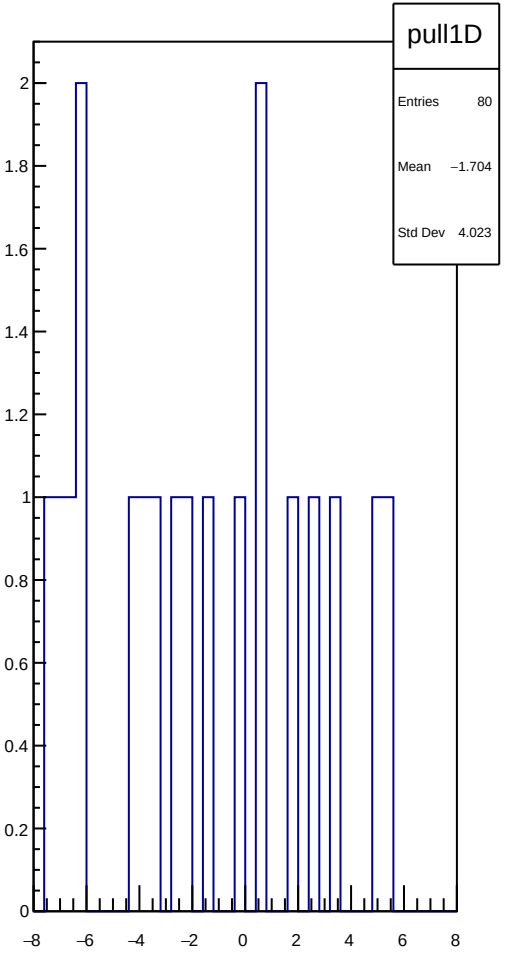

yield_bpm1i06WS_rms vs run
χ² / ndf 3787 / 79
p0 305.4 ± 0.2449
340
330
320
310
300
290
280
270

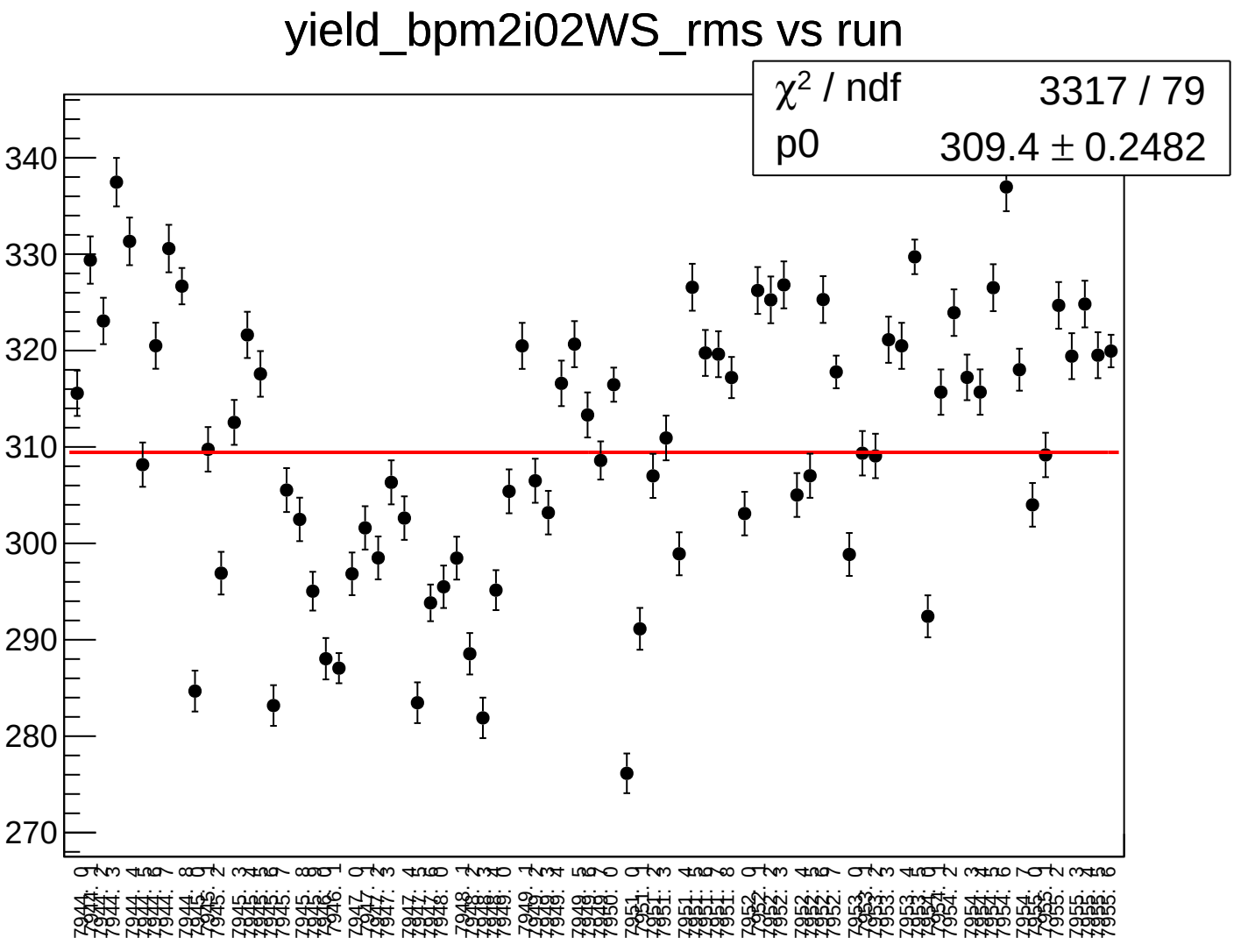

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 4880 / 79
p0 1.722e+05 ± 0.3129
172.2
172.18
172.16
172.14
172.12
172.1
pull
Entries 80
Mean −9573
Std Dev 9601
10
5
0
−5
−10
−15

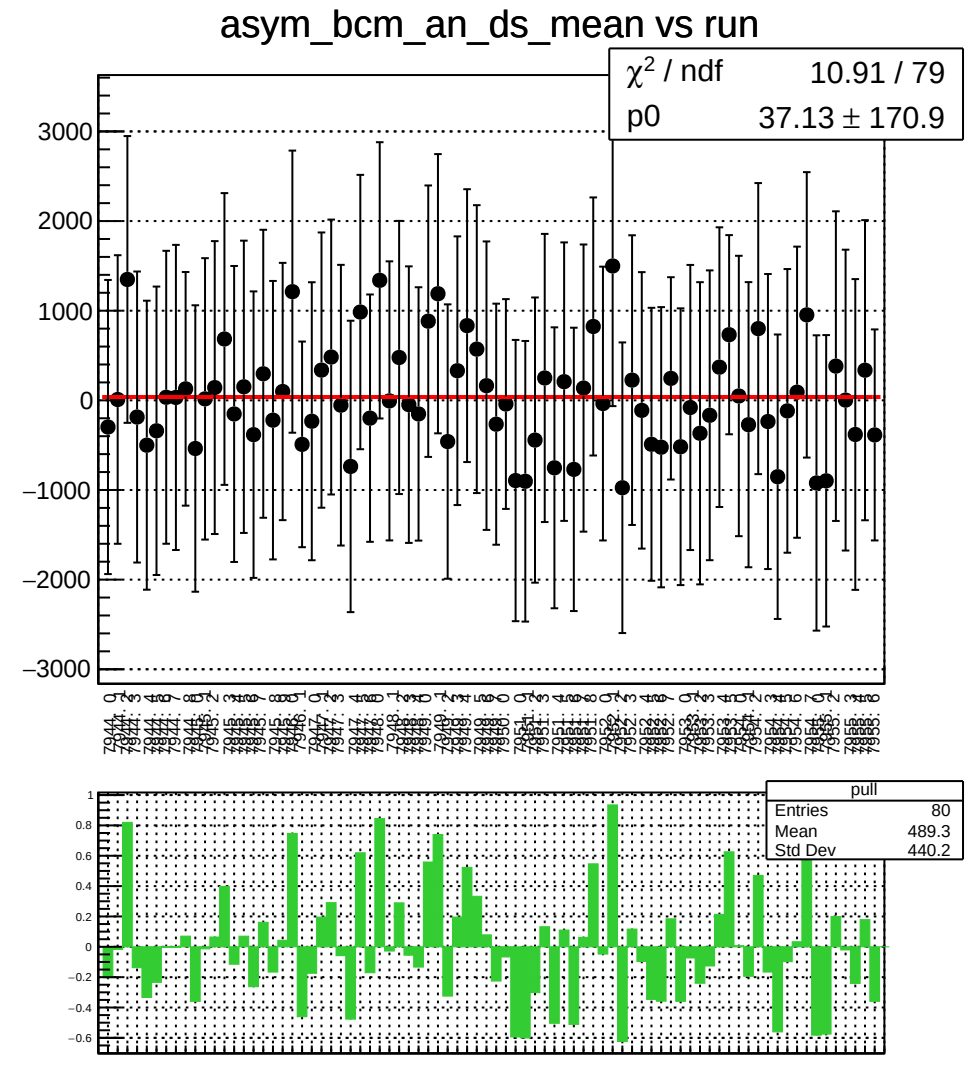

pull1D
Entries 80
Mean 2.381
Std Dev 3.779
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

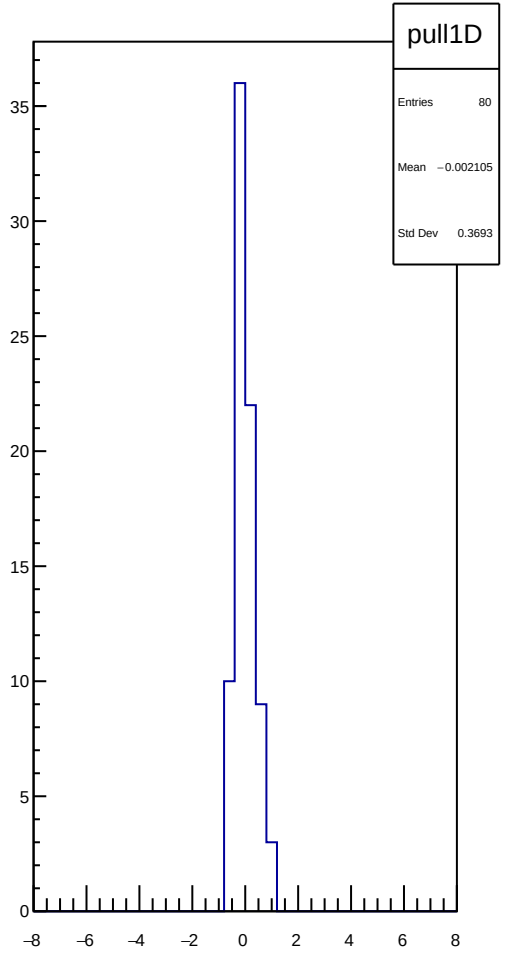

yield_bpm2i01WS_rms vs run
χ² / ndf 3333 / 79
p0 275.9 ± 0.2213
310
300
290
280
270
260
250
240

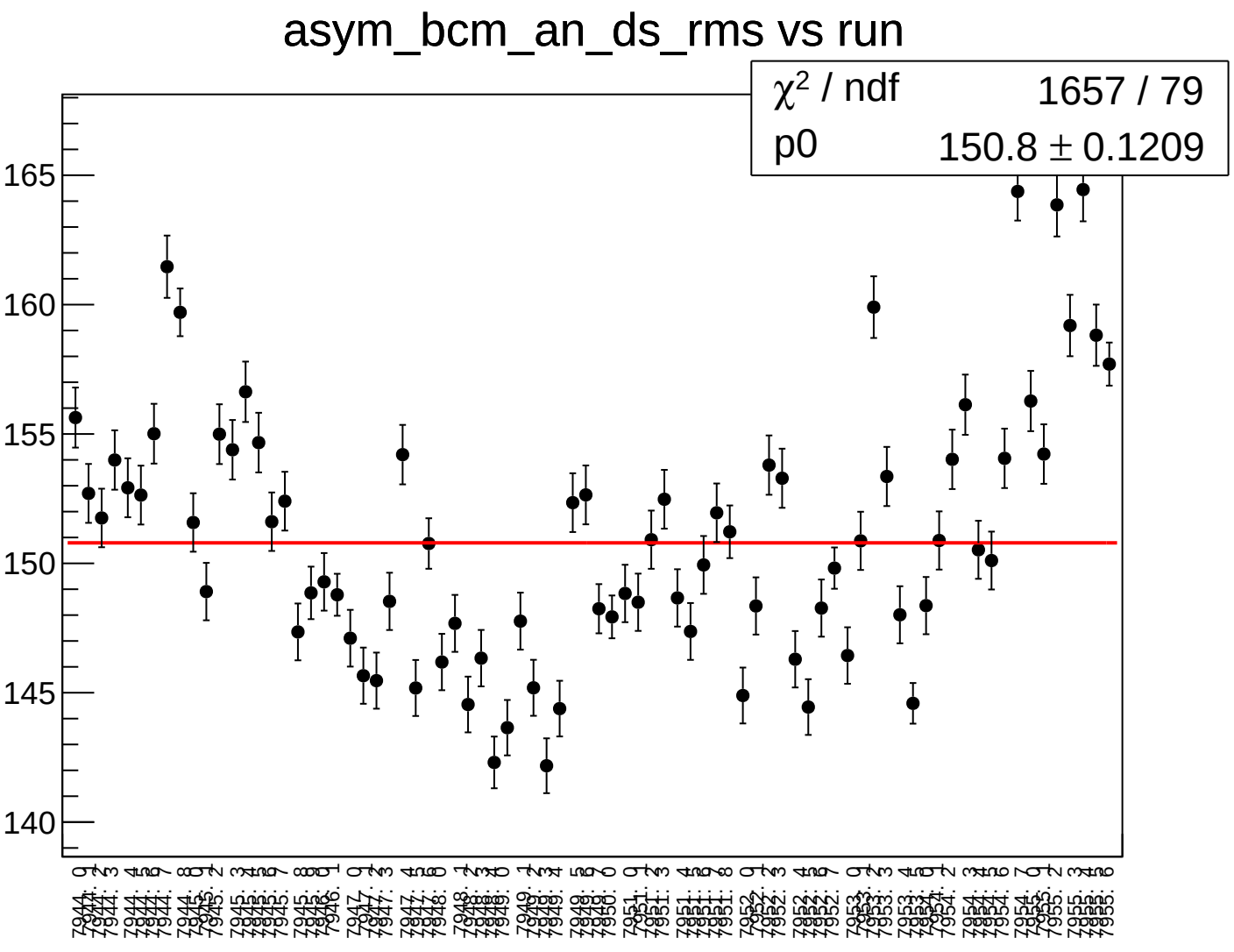

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5.515e+04 / 79
p0 1.892e+05 ± 0.351
189.4
189.35
189.3
189.25
189.2
189.15
189.1
189.05
pull
Entries 80
Mean −351.7
Std Dev 288.4
60
40
20
0
−20
−40

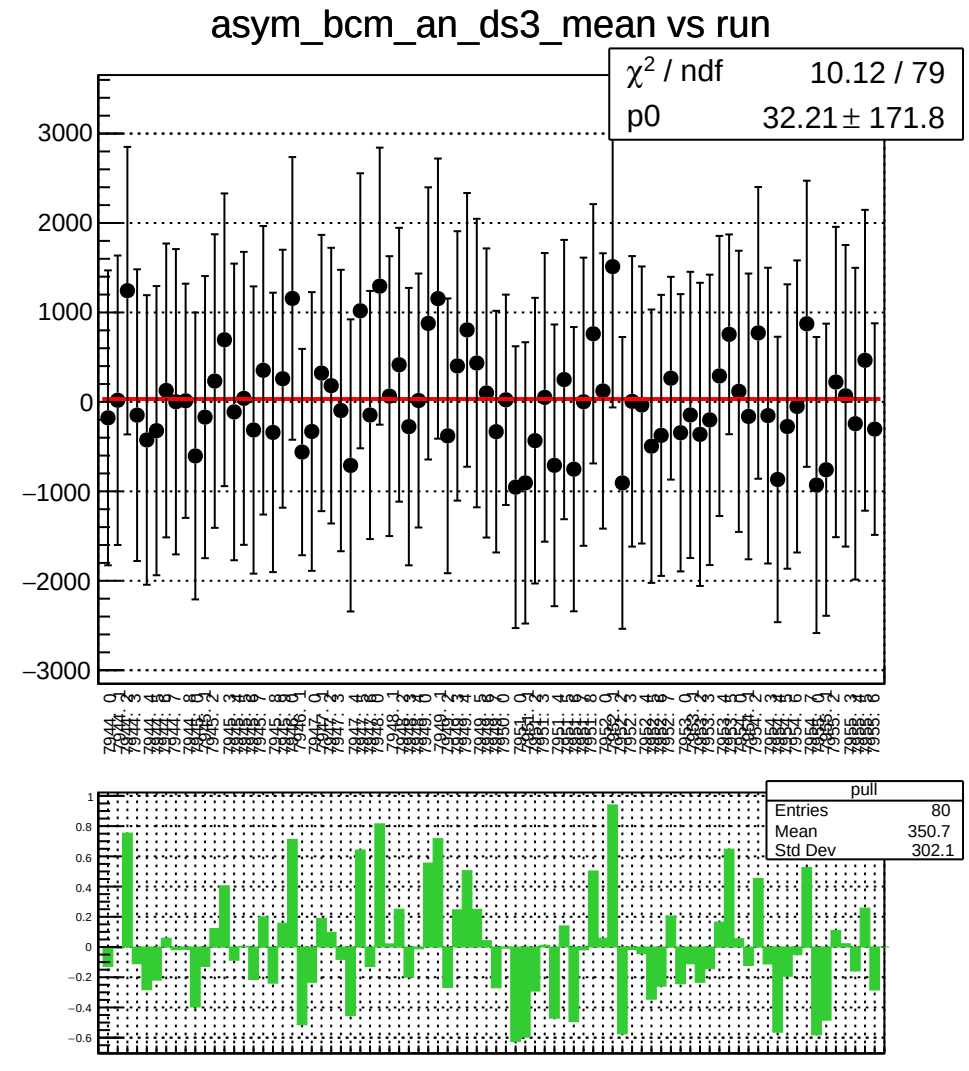

pull1D
Entries 80
Mean −1.704
Std Dev 4.023
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

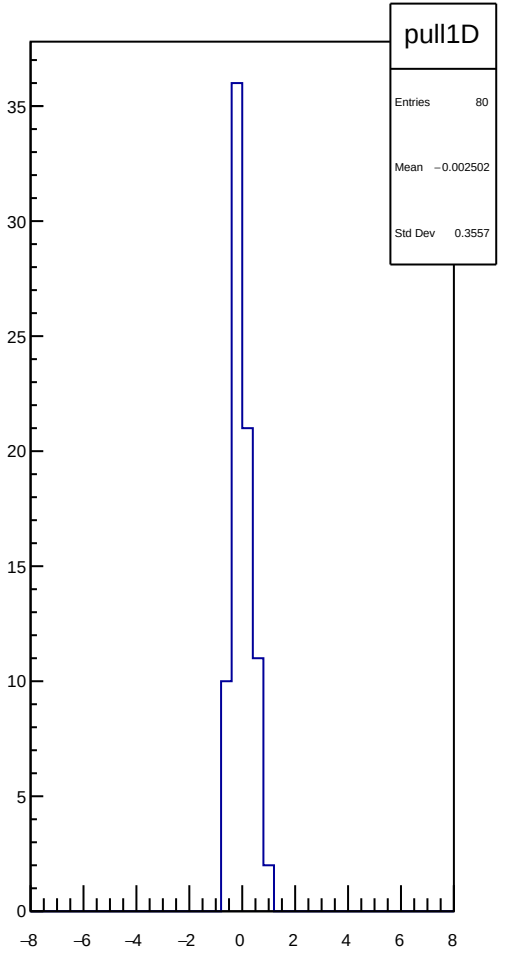

yield_bpm2i02WS_rms vs run
χ² / ndf 3317 / 79
p0 309.4 ± 0.2482
340
330
320
310
300
290
280
270

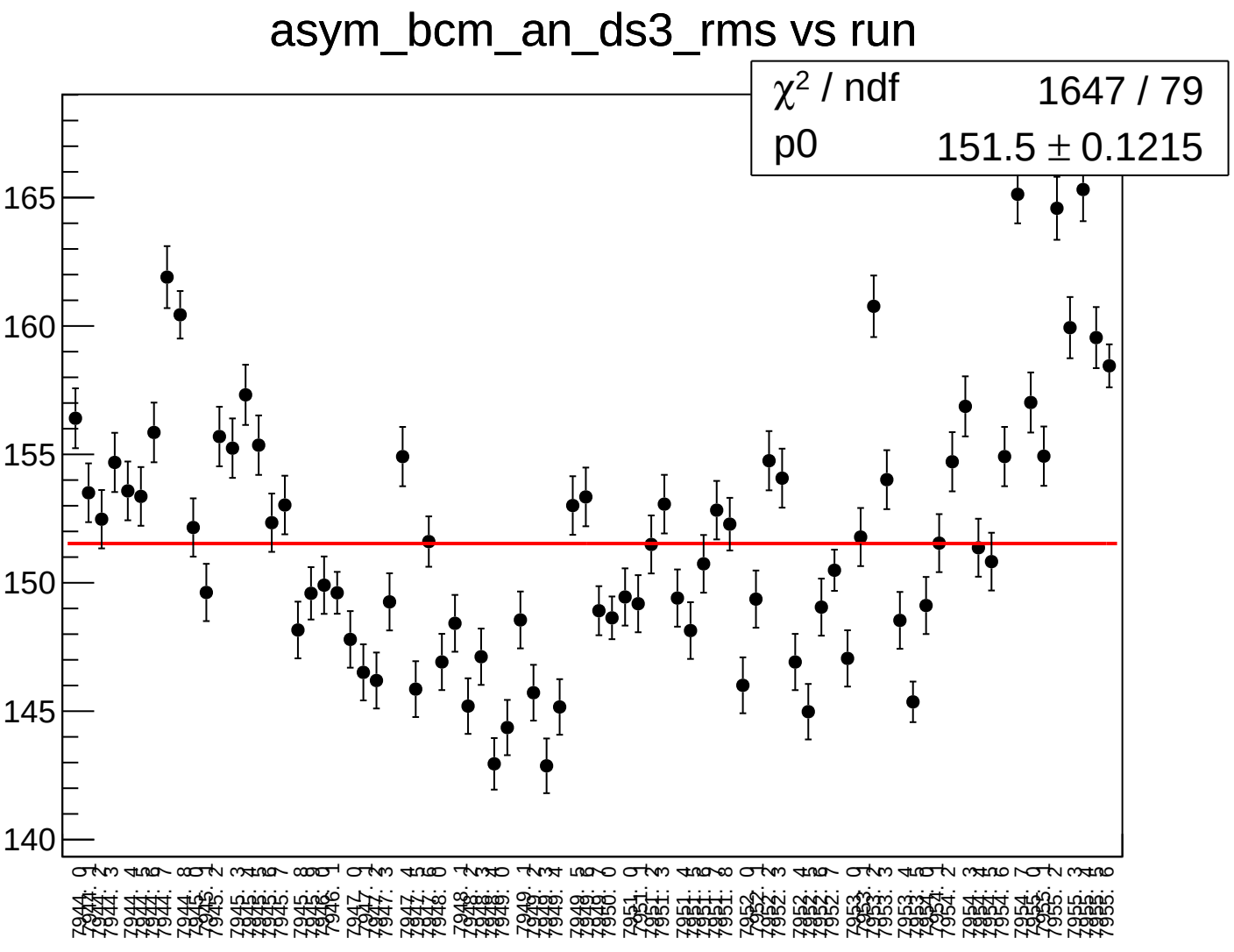

asym_bcm_an_ds_mean vs run
χ² / ndf 10.91 / 79
p0 37.13 ± 170.9
pull
Entries 80
Mean 489.3
Std Dev 440.2

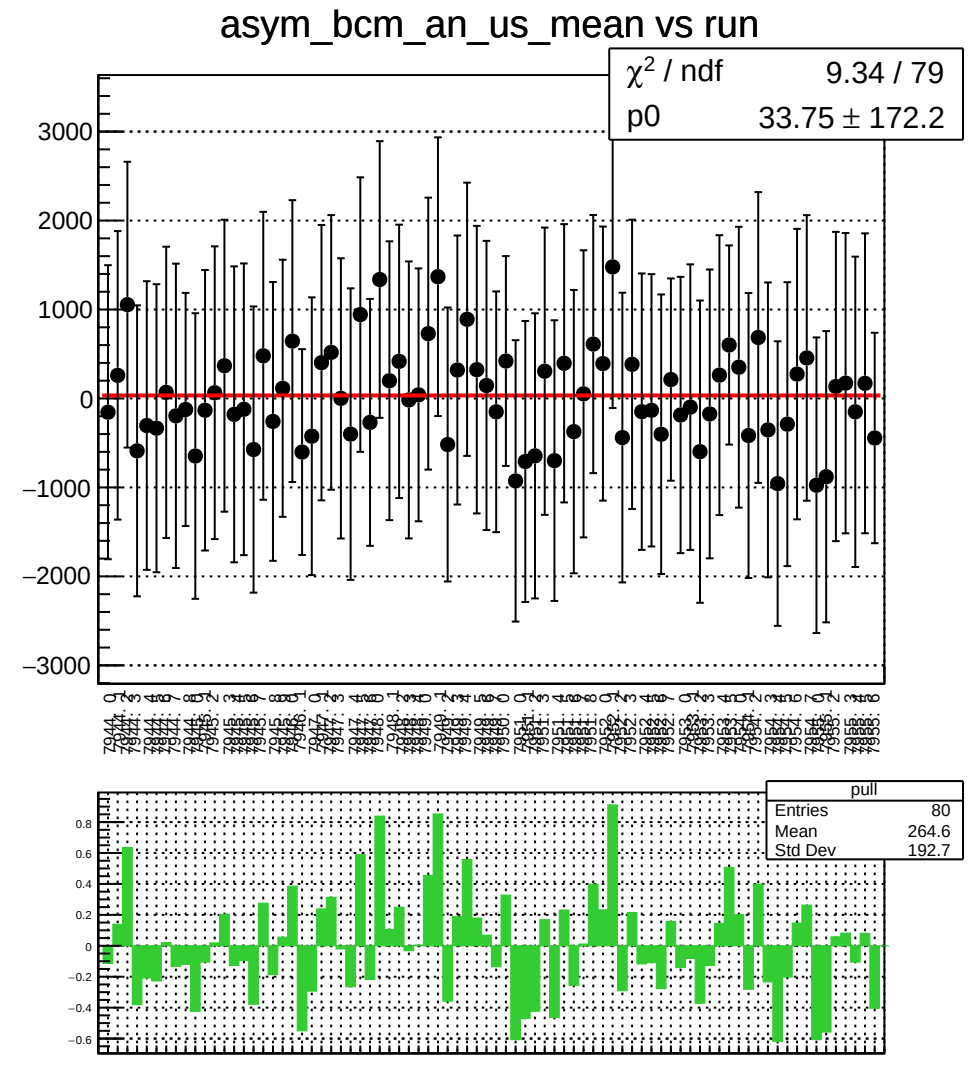

pull1D
Entries 80
Mean −0.002105
Std Dev 0.3693

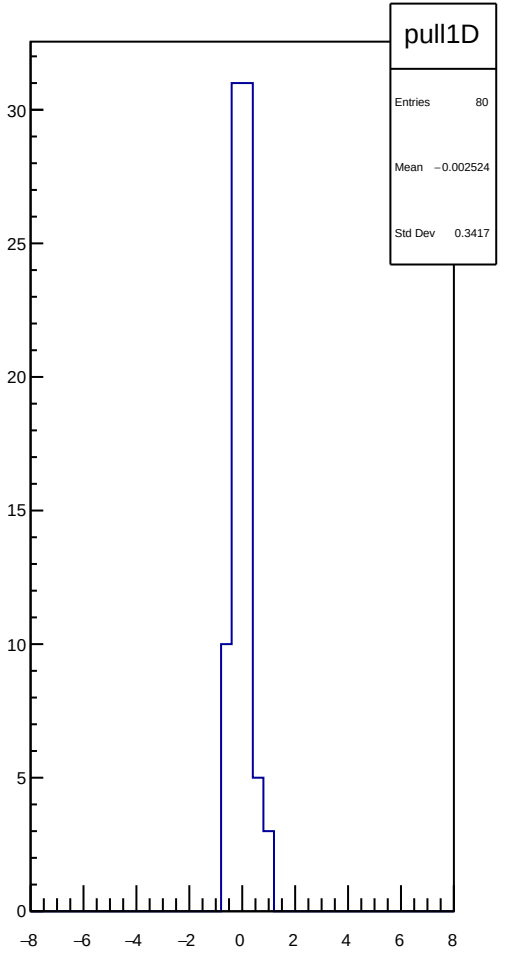

asym_bcm_an_ds_rms vs run
χ² / ndf 1657 / 79
p0 150.8 ± 0.1209
165
160
155
150
145
140

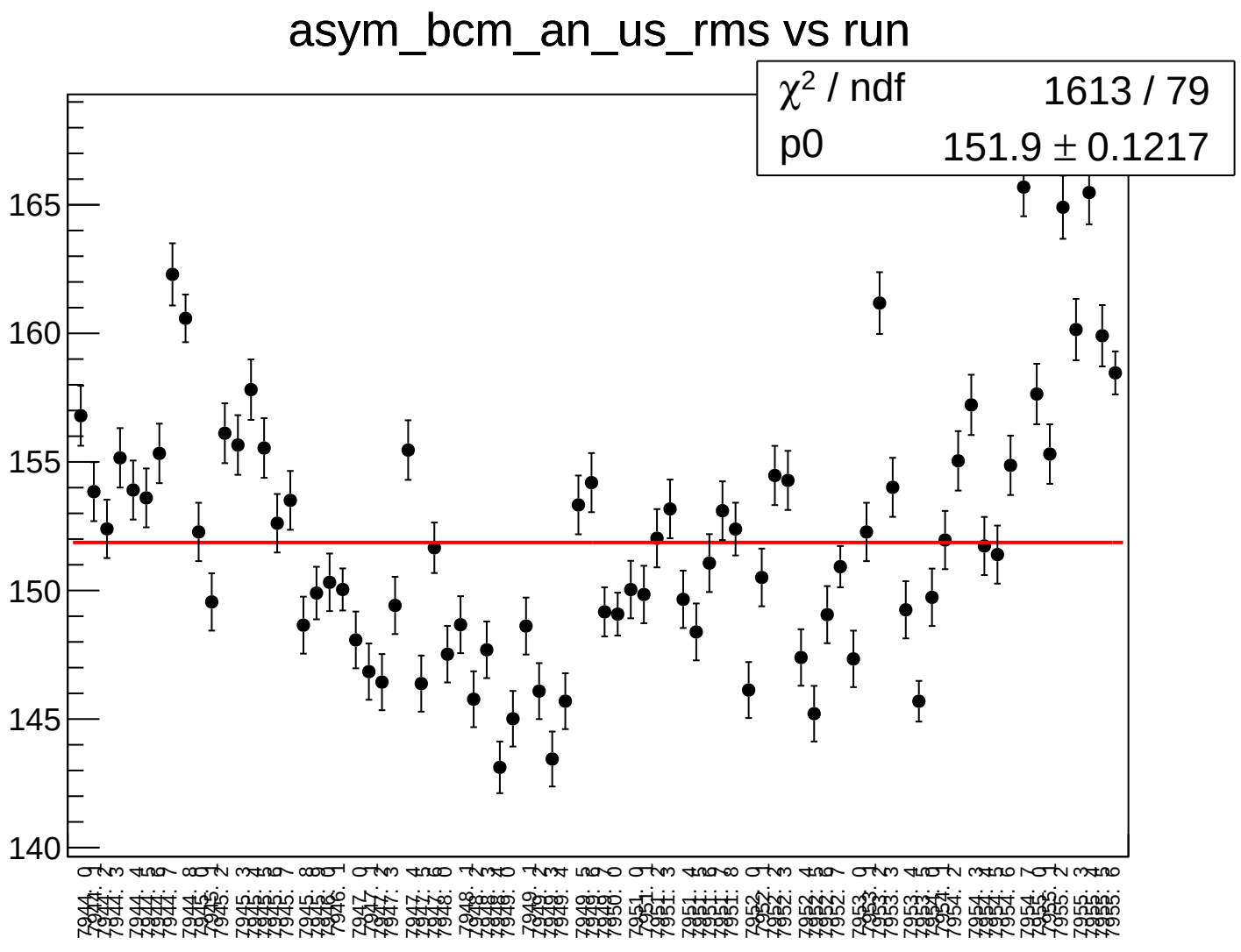

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.12 / 79
p0 32.21 ± 171.8
pull
Entries 80
Mean 350.7
Std Dev 302.1

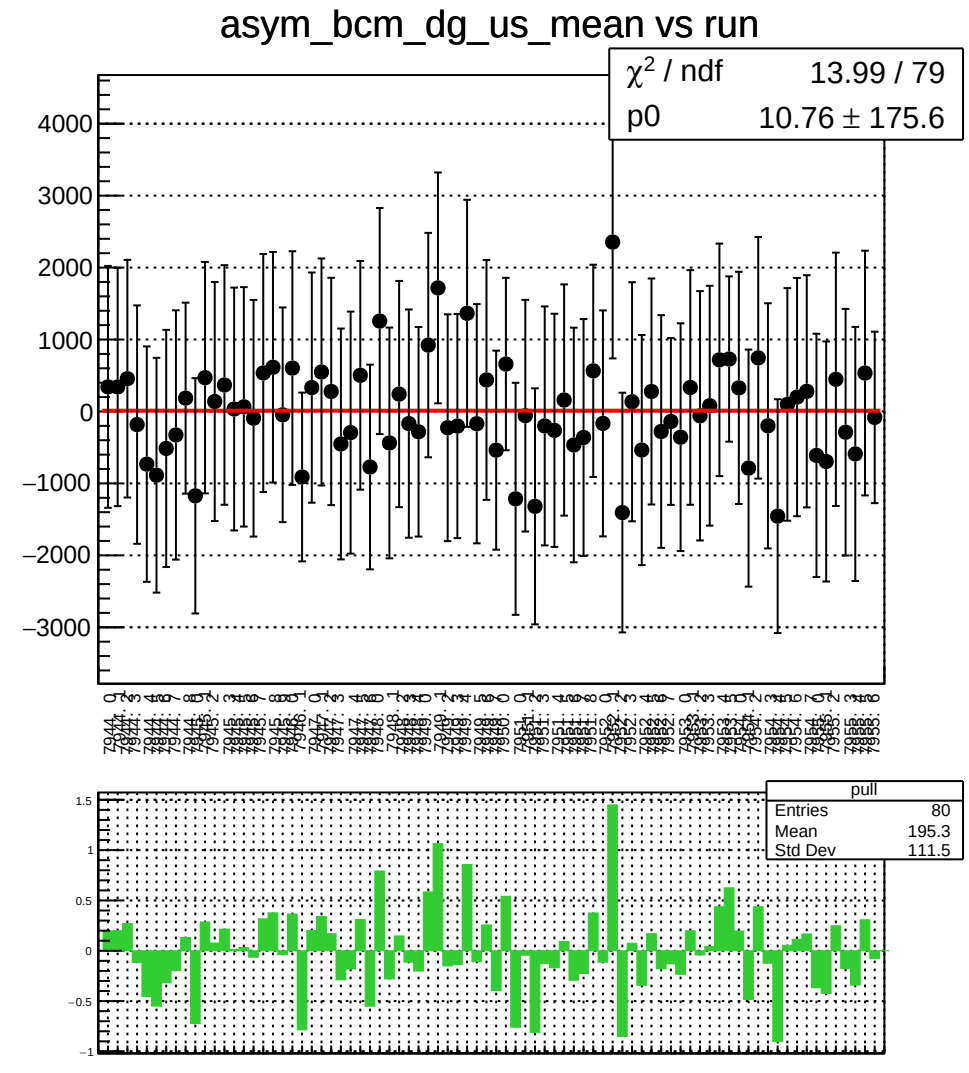

pull1D
Entries 80
Mean −0.002502
Std Dev 0.3557

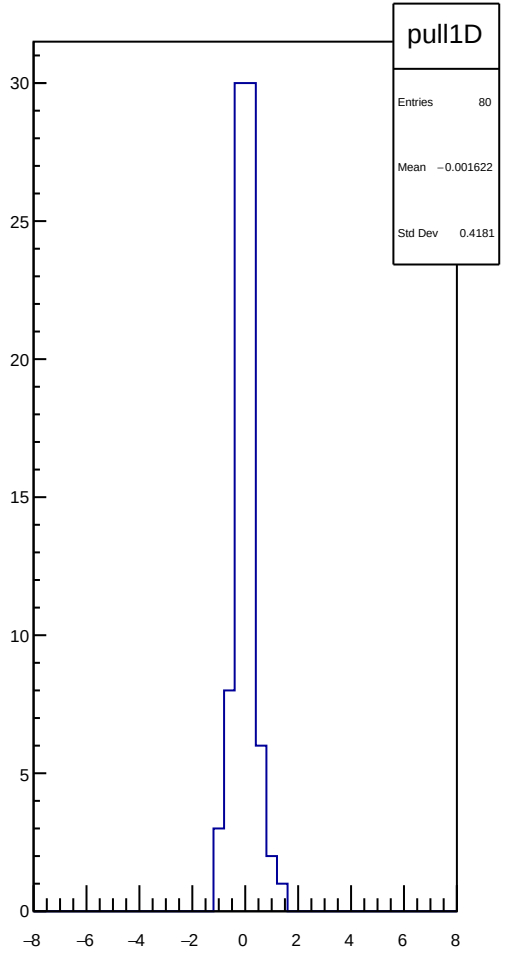

asym_bcm_an_ds3_rms vs run
χ² / ndf 1647 / 79
p0 151.5 ± 0.1215
165
160
155
150
145
140

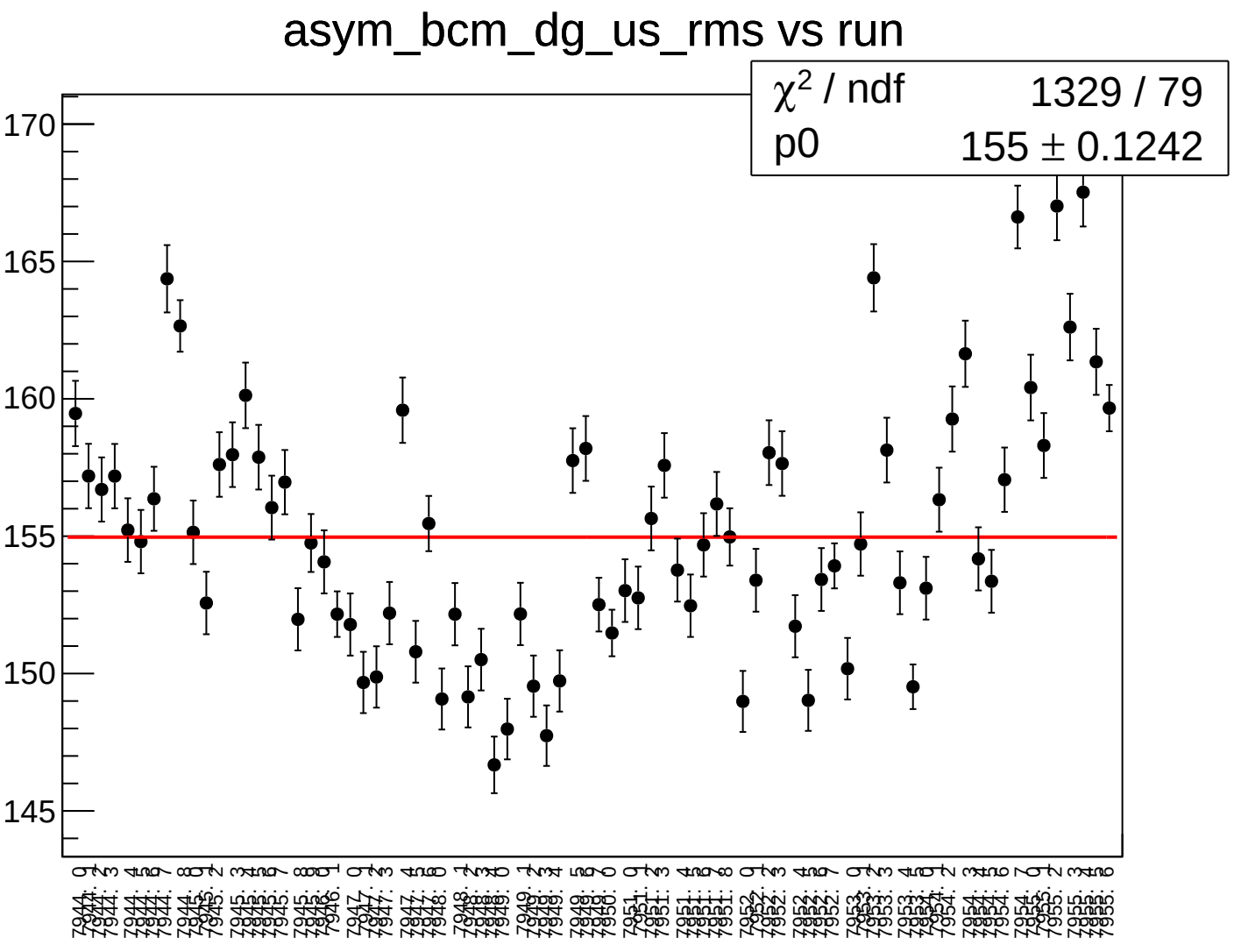

asym_bcm_an_us_mean vs run
χ² / ndf 9.34 / 79
p0 33.75 ± 172.2
pull
Entries 80
Mean 264.6
Std Dev 192.7

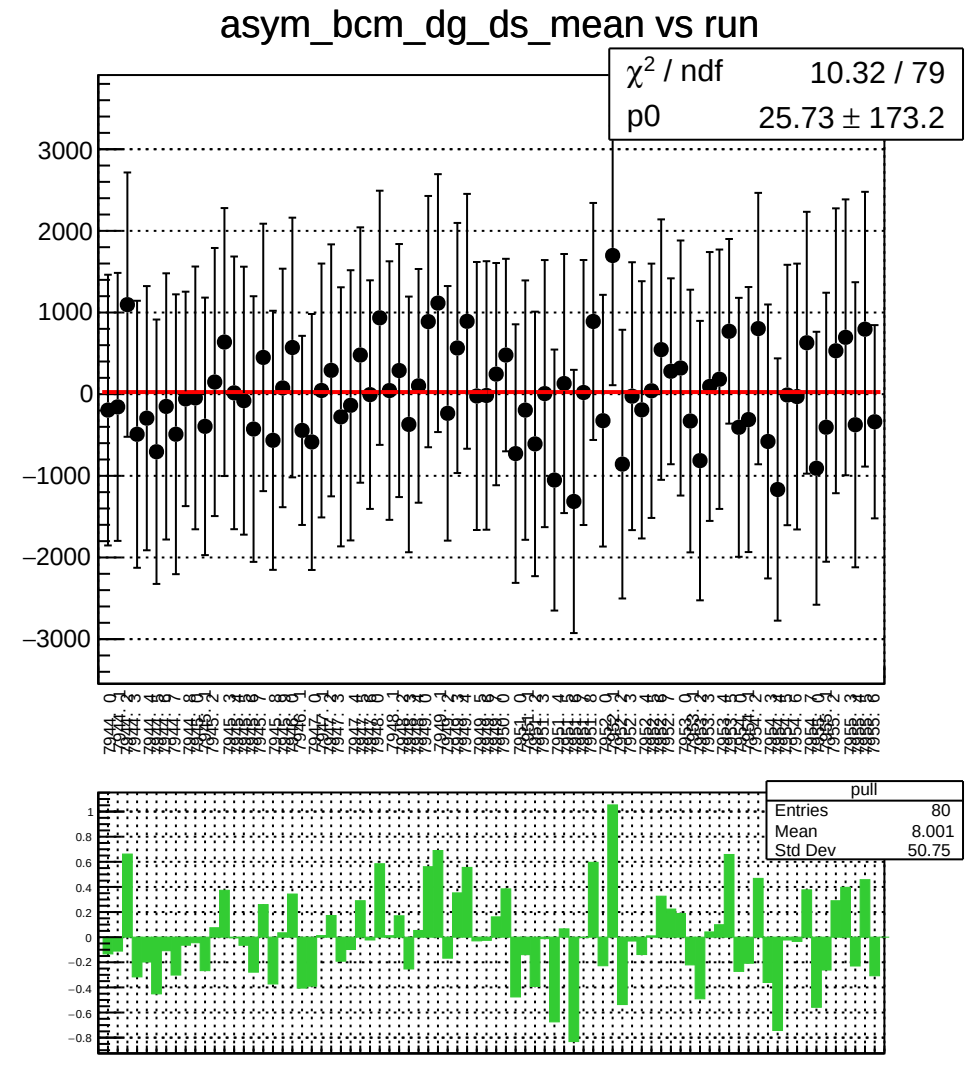

pull1D
Entries 80
Mean −0.002524
Std Dev 0.3417

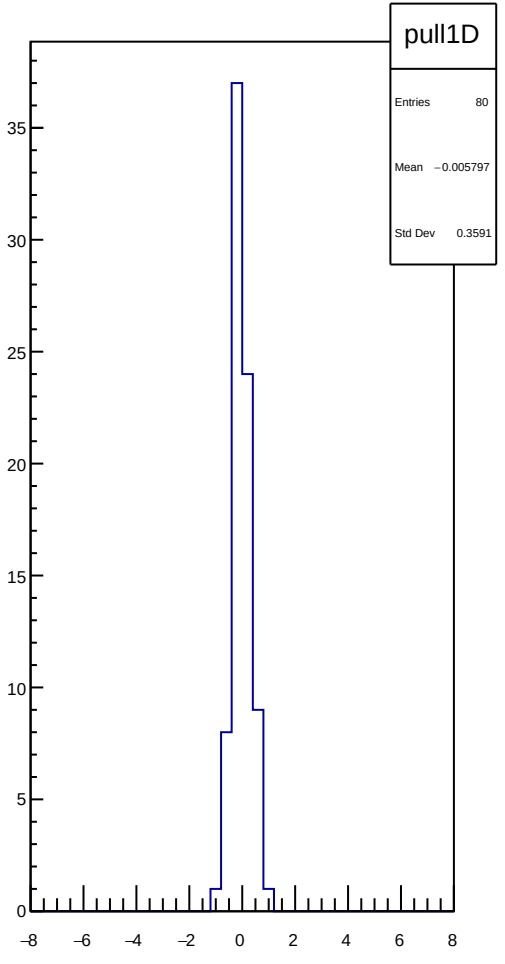

asym_bcm_an_us_rms vs run
χ² / ndf 1613 / 79
p0 151.9 ± 0.1217
165
160
155
150
145
140

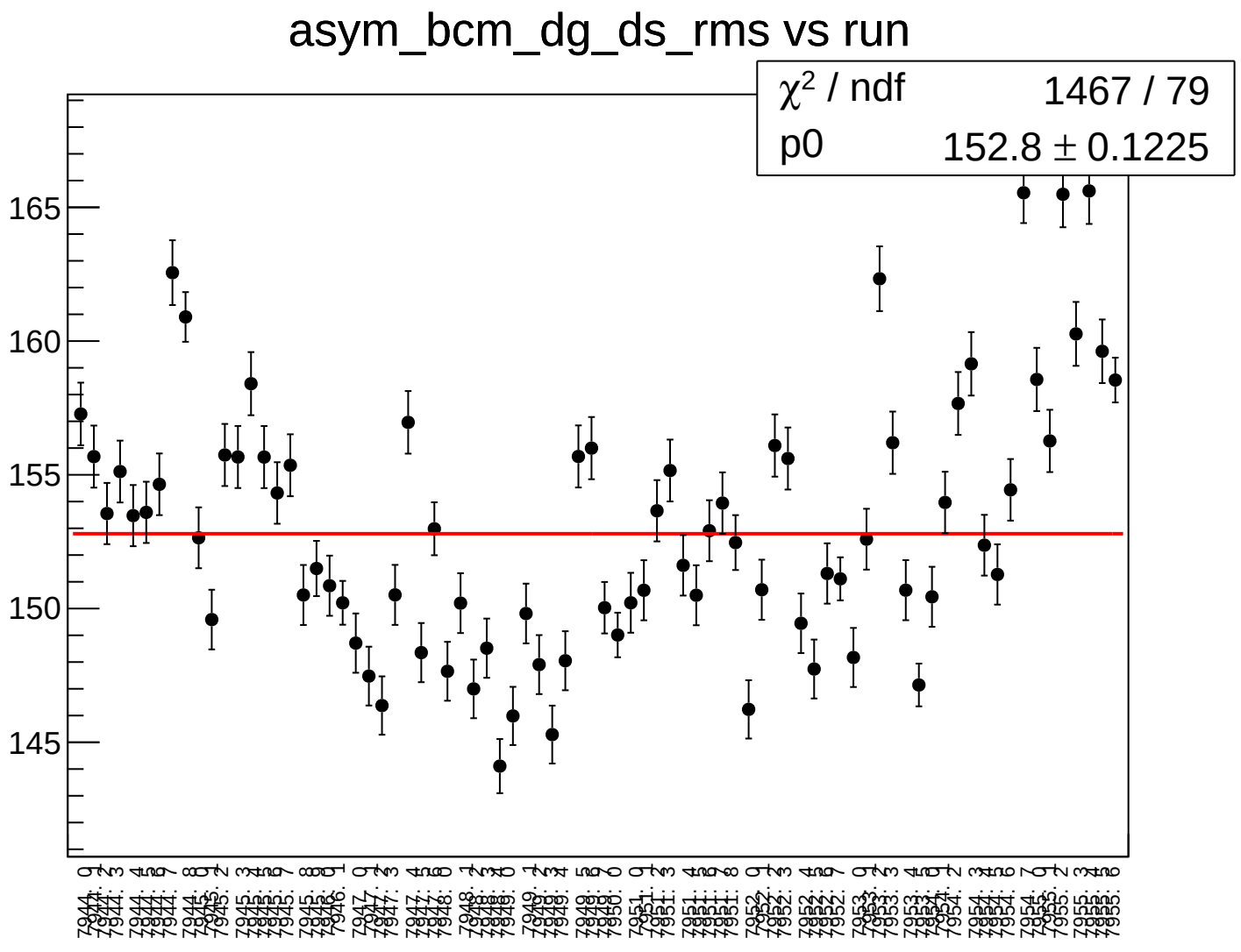

asym_bcm_dg_us_mean vs run
χ² / ndf 13.99 / 79
p0 10.76 ± 175.6
4000
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 80
Mean 195.3
Std Dev 111.5
1.5
1
0.5
0
−0.5
−1

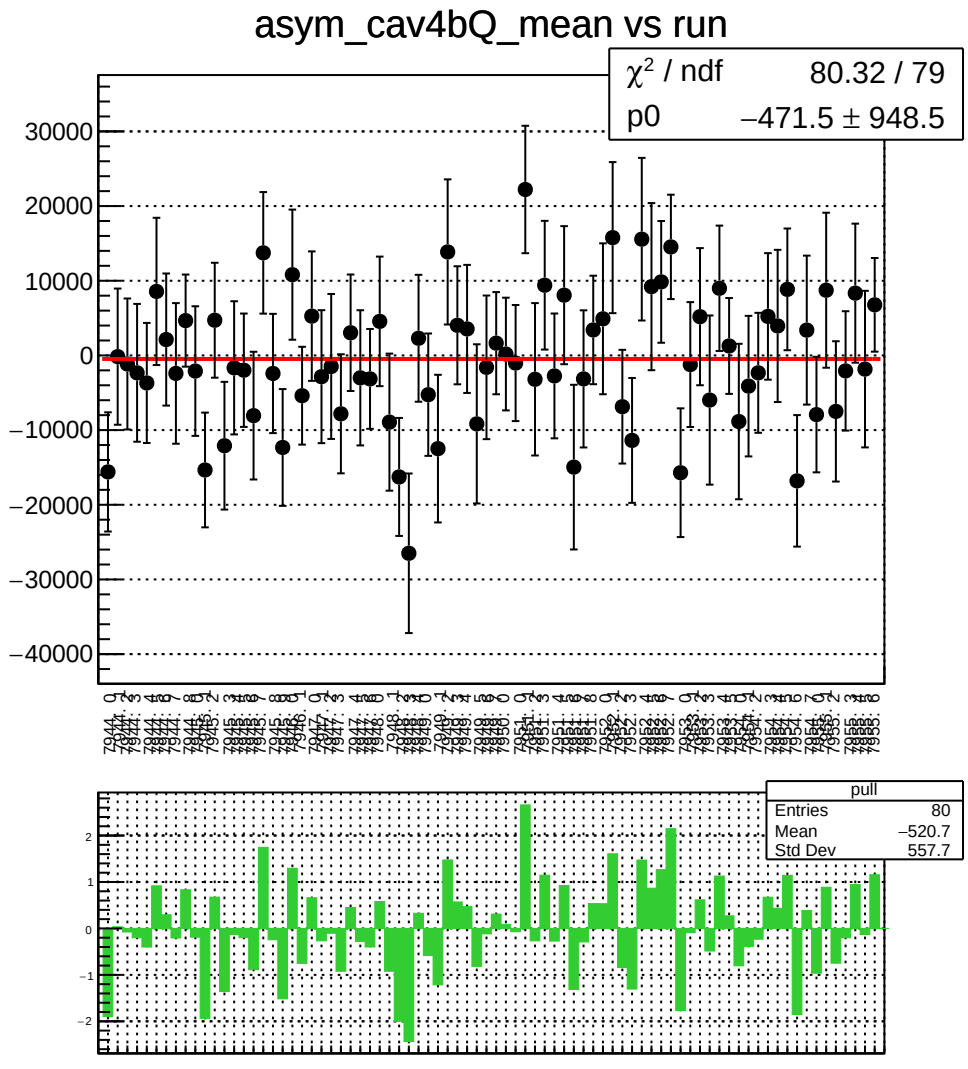

pull1D
Entries 80
Mean −0.001622
Std Dev 0.4181
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

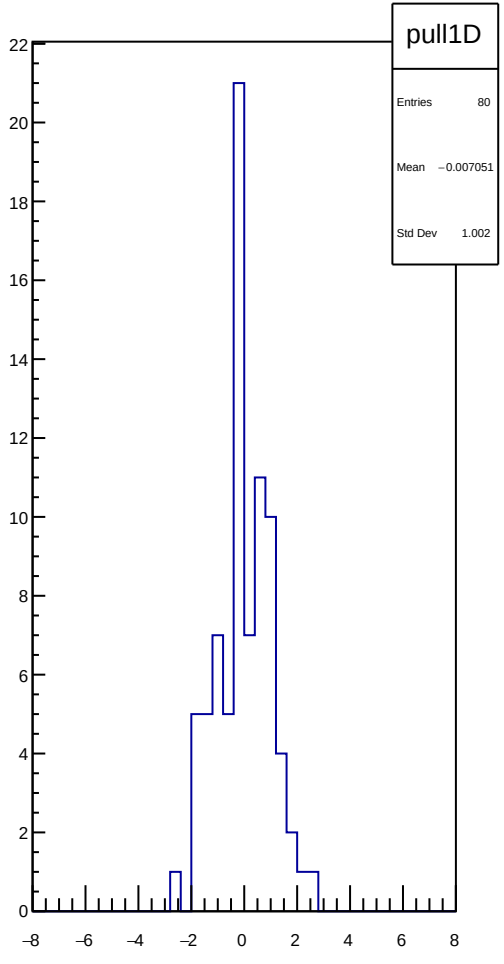

asym_bcm_dg_us_rms vs run
χ^2 / ndf 1329 / 79
p0 155 ± 0.1242
170
165
160
155
150
145

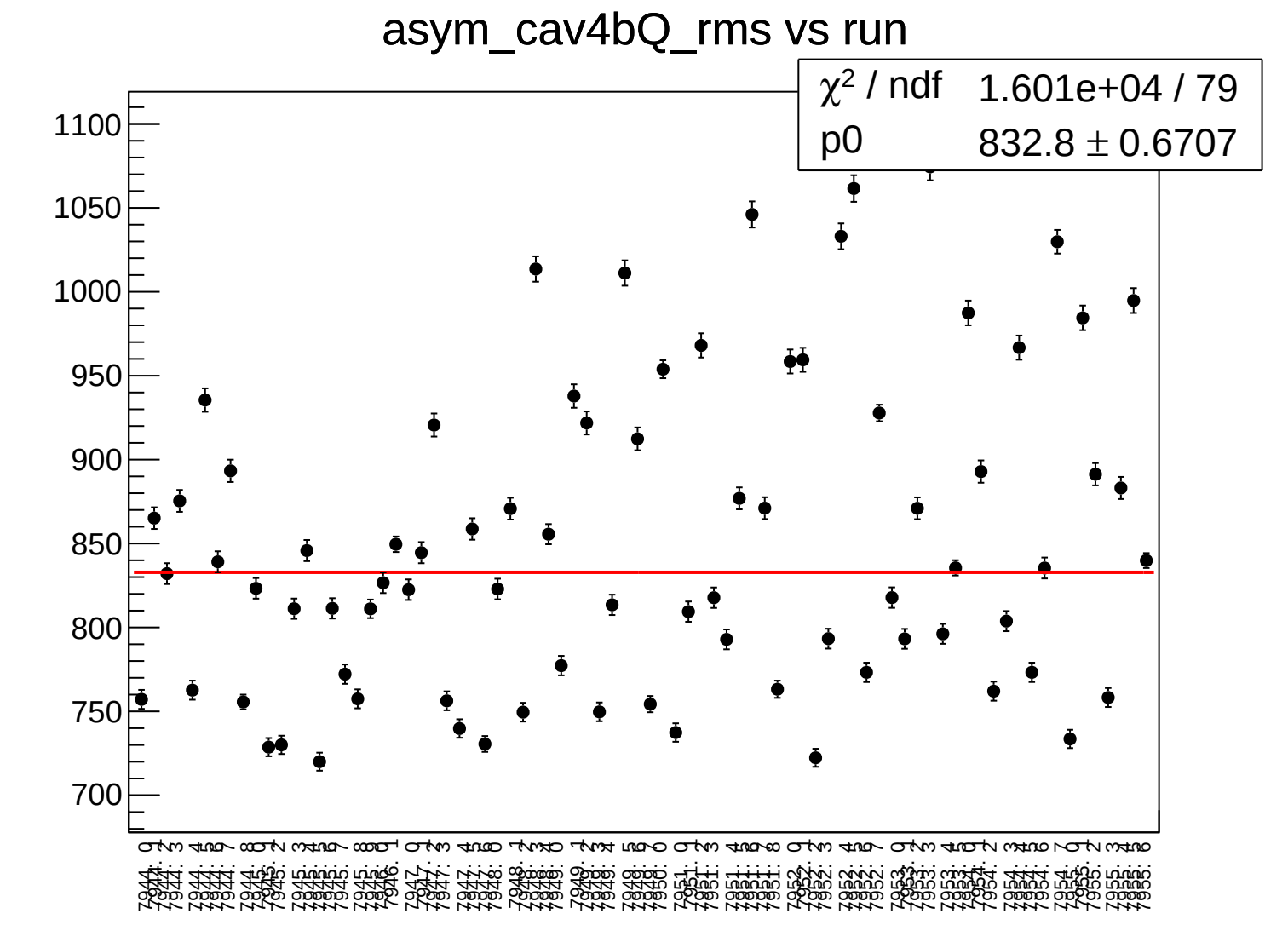

asym_bcm_dg_ds_mean vs run
χ² / ndf 10.32 / 79
p0 25.73 ± 173.2
pull
Entries 80
Mean 8.001
Std Dev 50.75

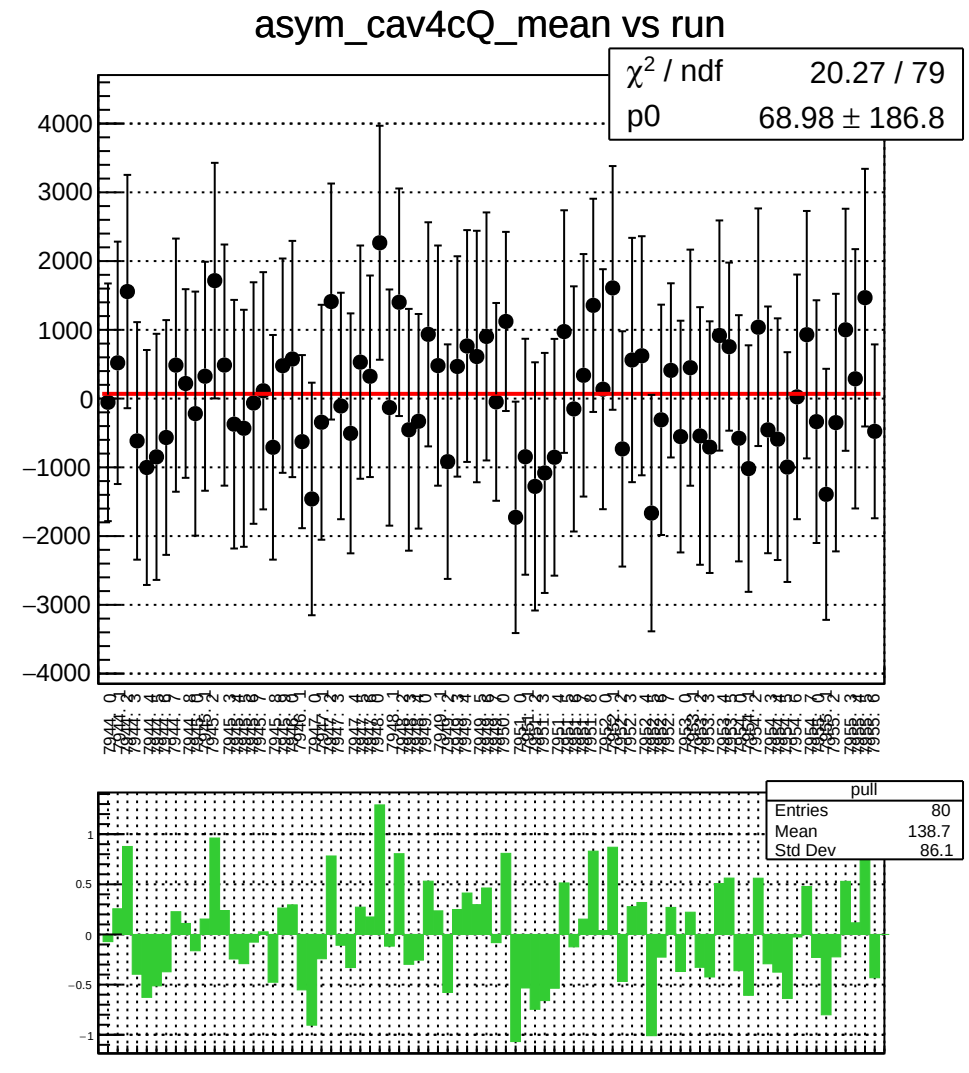

pull1D
Entries 80
Mean −0.005797
Std Dev 0.3591

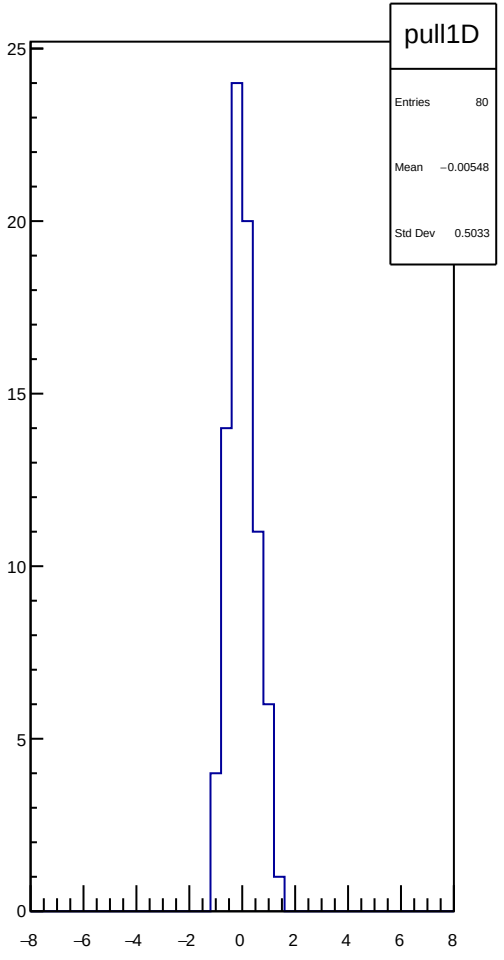

asym_bcm_dg_ds_rms vs run
χ² / ndf 1467 / 79
p0 152.8 ± 0.1225
165
160
155
150
145

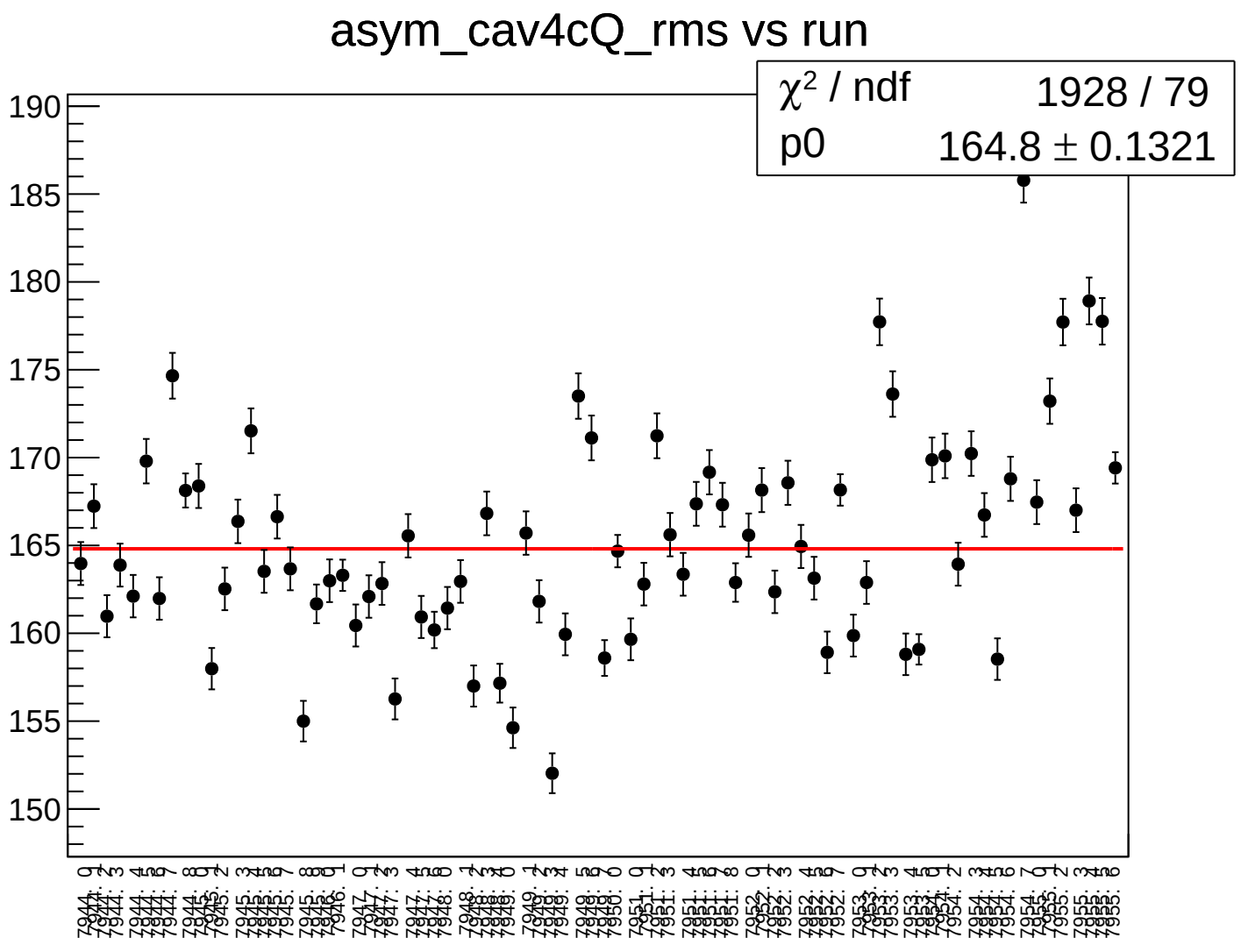

asym_cav4bQ_mean vs run
χ² / ndf 80.32 / 79
p0 −471.5 ± 948.5
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 80
Mean −520.7
Std Dev 557.7
2
1
0
−1
−2

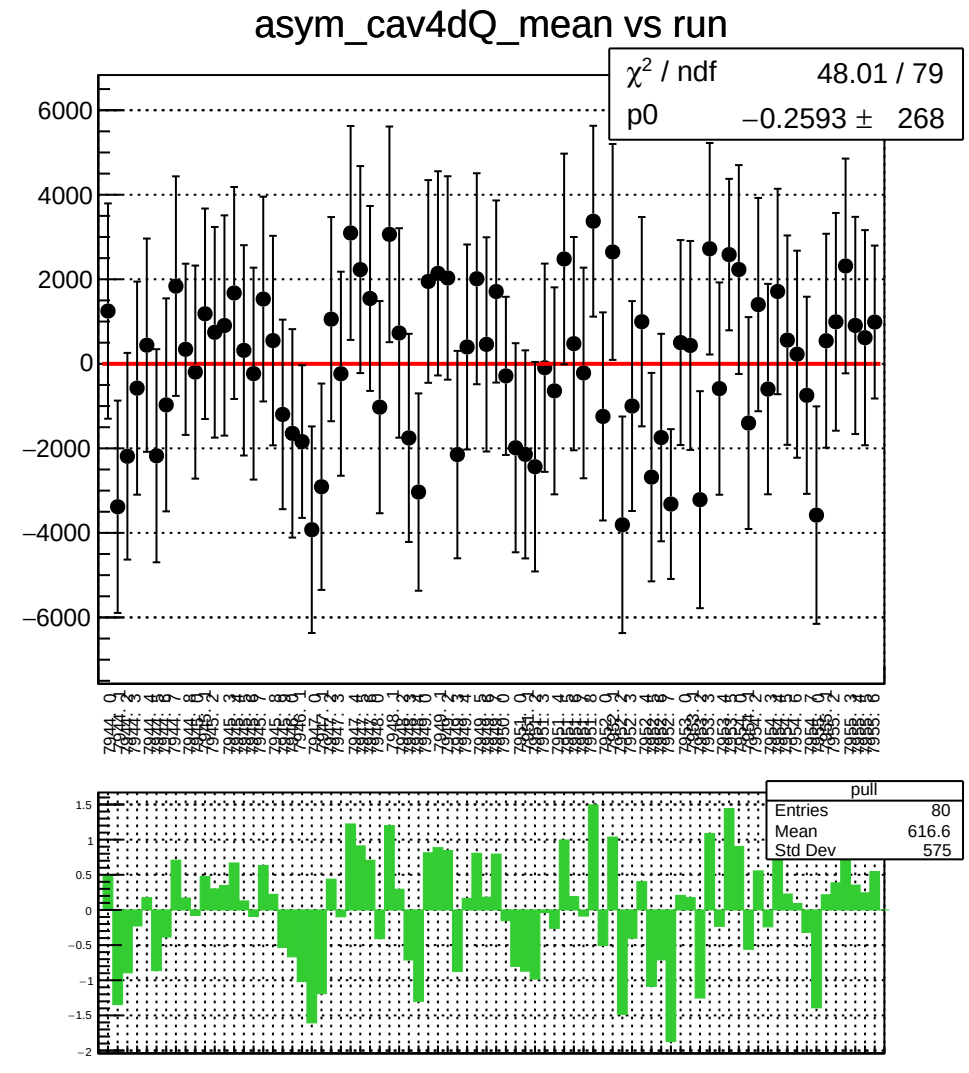

pull1D
Entries 80
Mean −0.007051
Std Dev 1.002
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

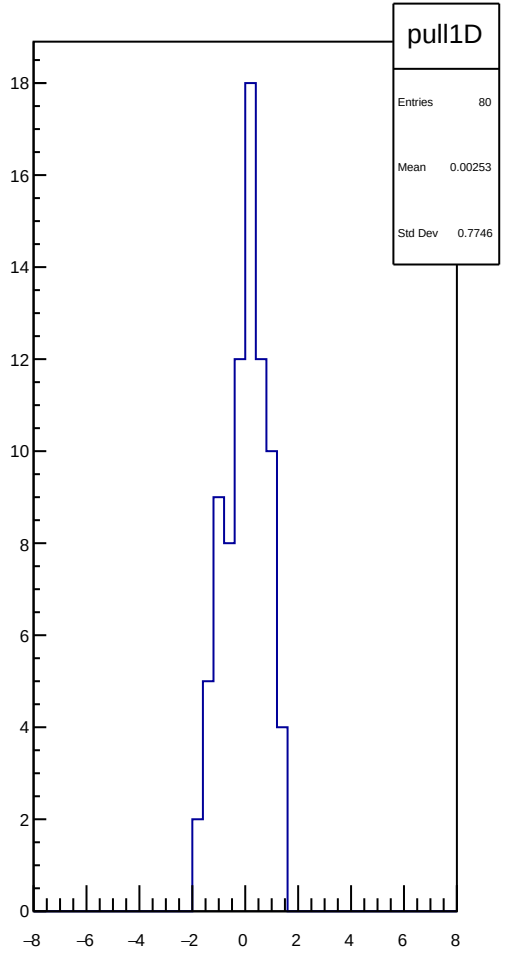

asym_cav4bQ_rms vs run
χ² / ndf 1.601e+04 / 79
p0 832.8 ± 0.6707
1100
1050
1000
950
900
850
800
750
700

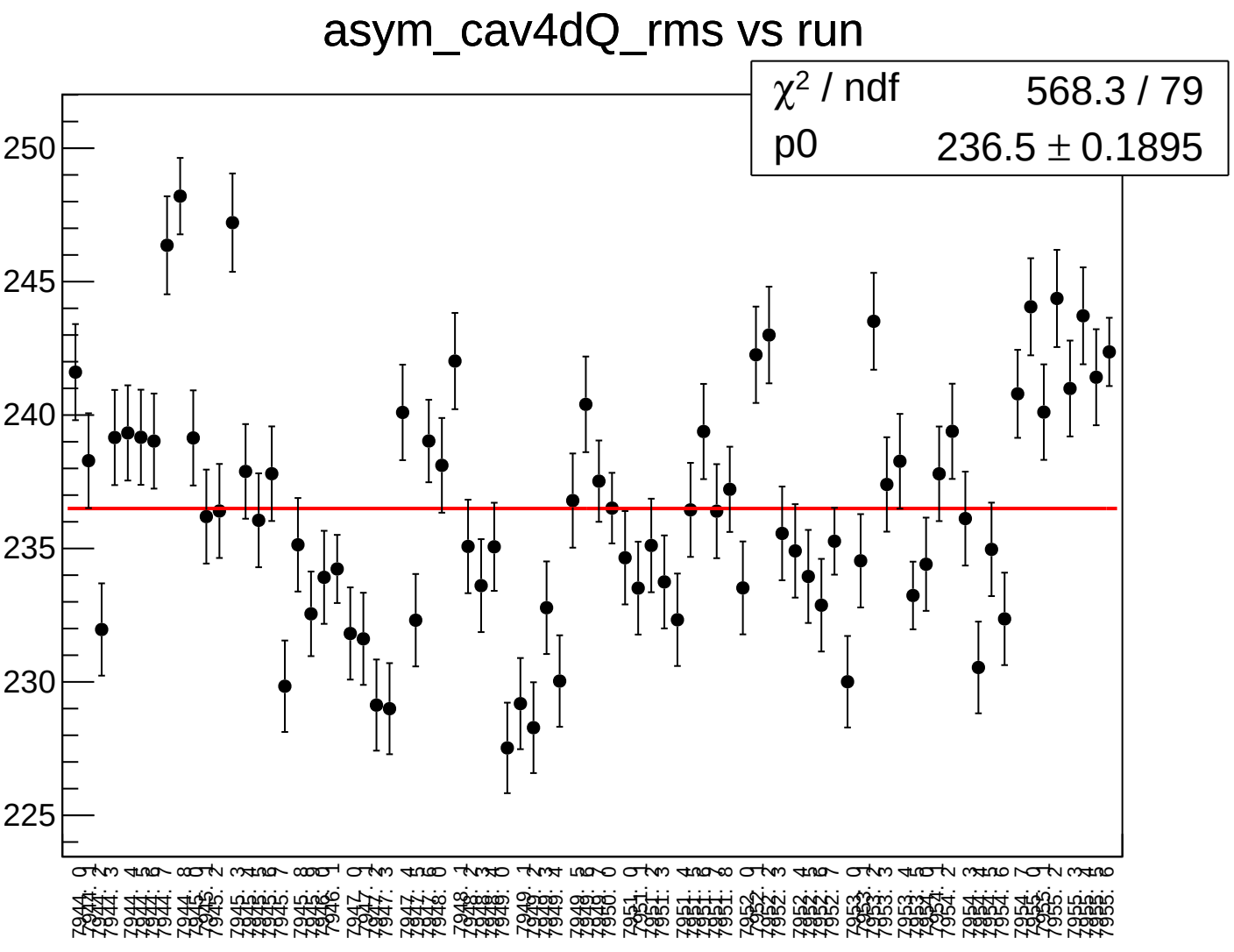

asym_cav4cQ_mean vs run
χ² / ndf 20.27 / 79
p0 68.98 ± 186.8
pull
Entries 80
Mean 138.7
Std Dev 86.1

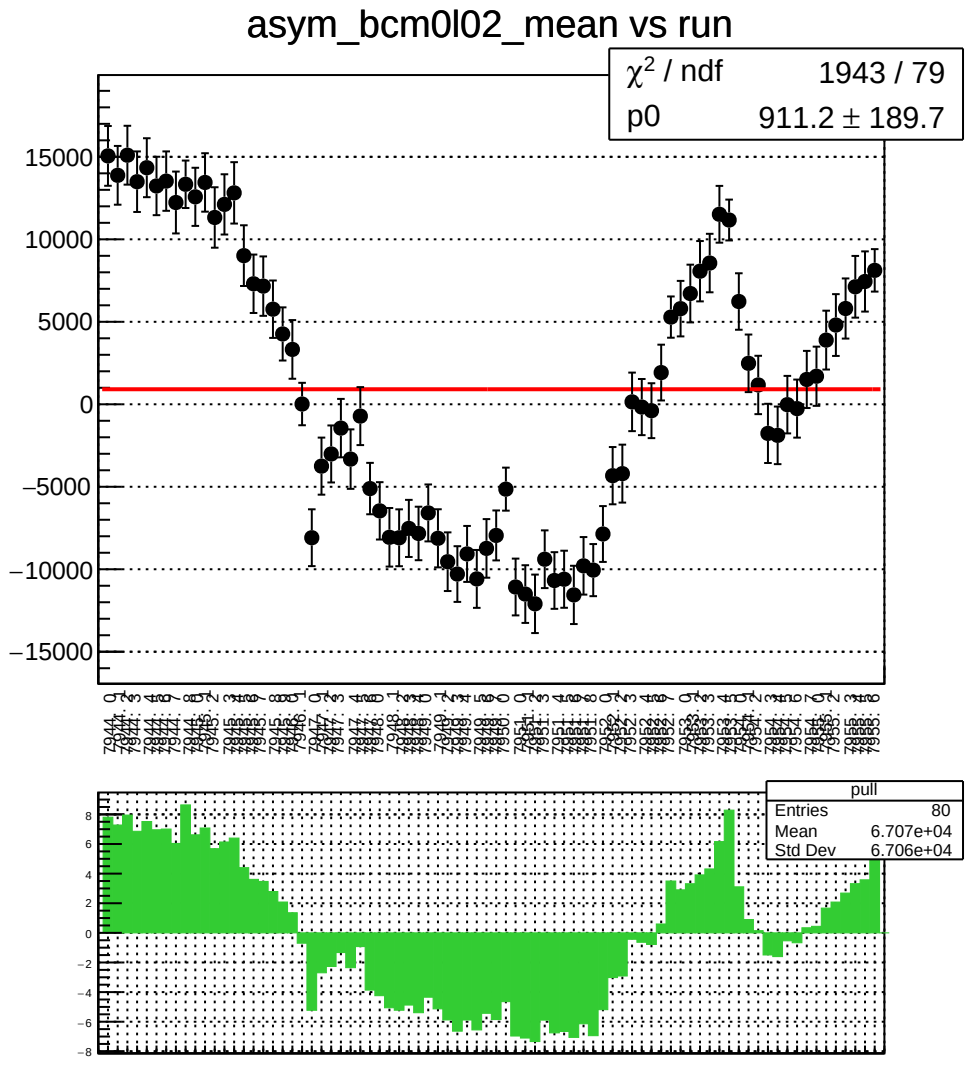

pull1D
Entries 80
Mean −0.00548
Std Dev 0.5033

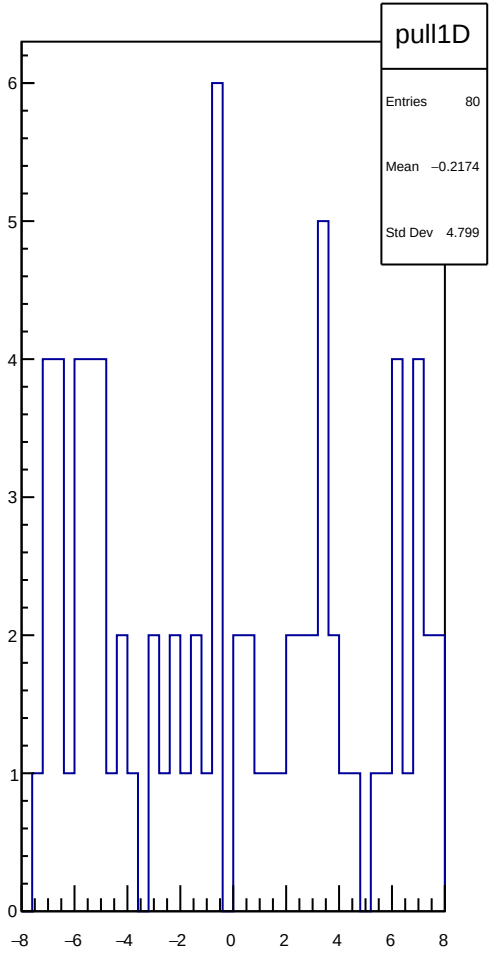

asym_cav4cQ_rms vs run
χ² / ndf 1928 / 79
p0 164.8 ± 0.1321
190
185
180
175
170
165
160
155
150

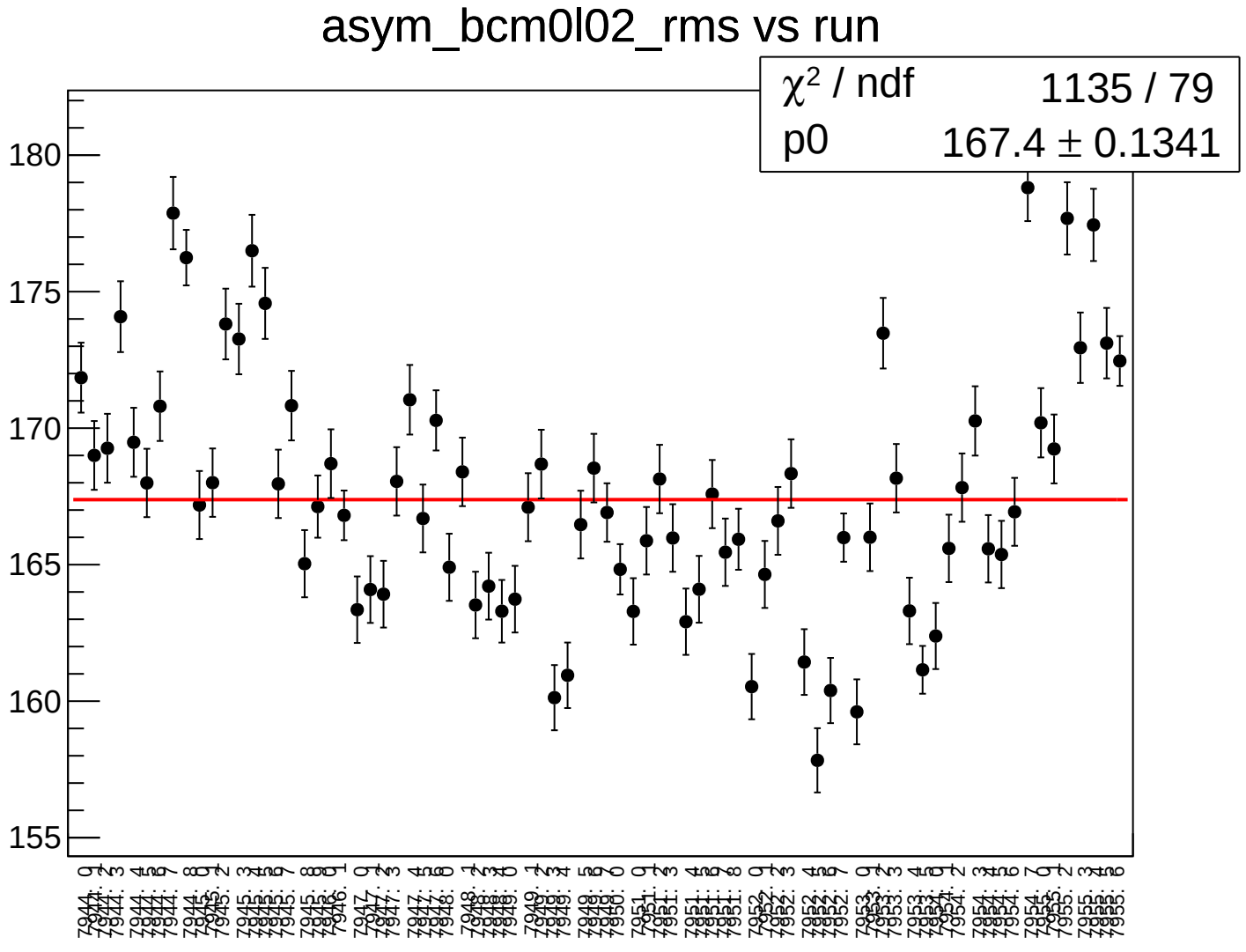

asym_cav4dQ_mean vs run
χ² / ndf 48.01 / 79
p0 −0.2593 ± 268
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 80
Mean 616.6
Std Dev 575
1.5
1
0.5
0
−0.5
−1
−1.5
−2

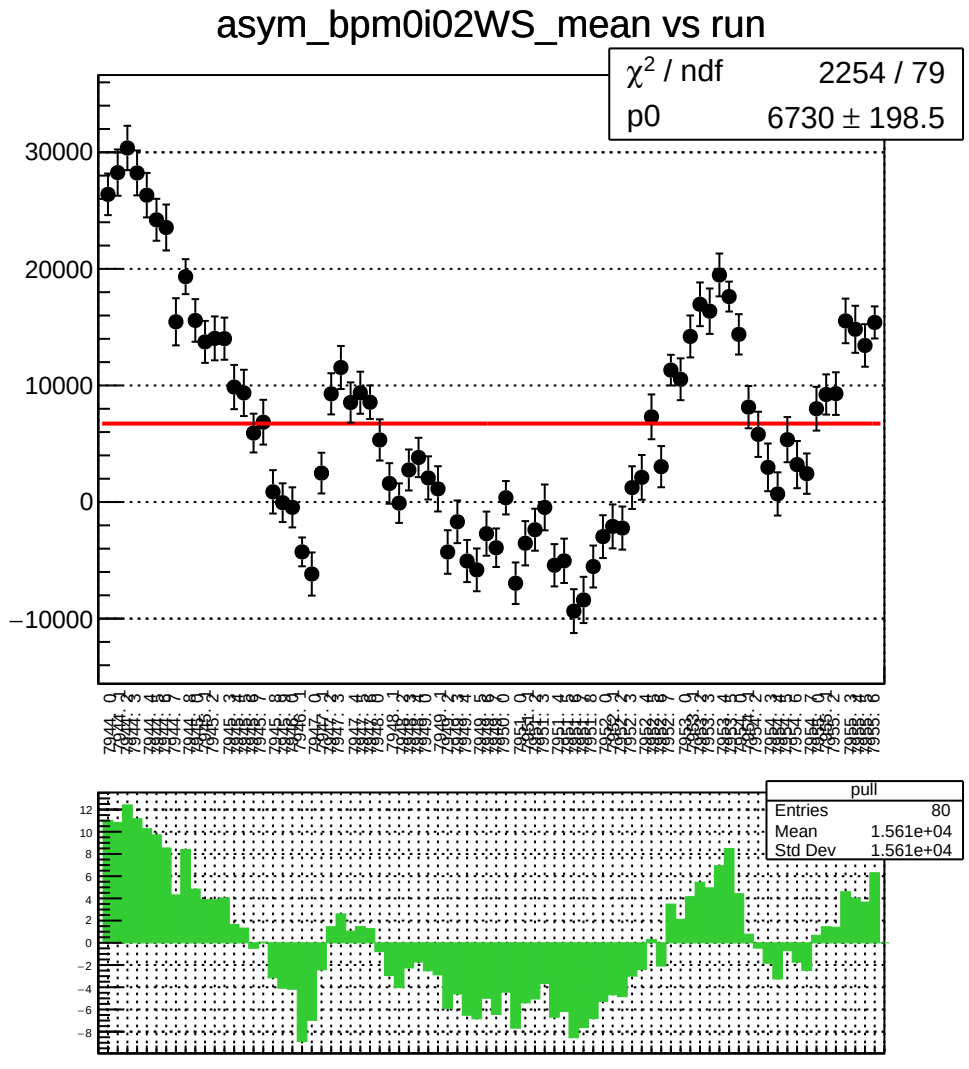

pull1D
Entries 80
Mean 0.00253
Std Dev 0.7746
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

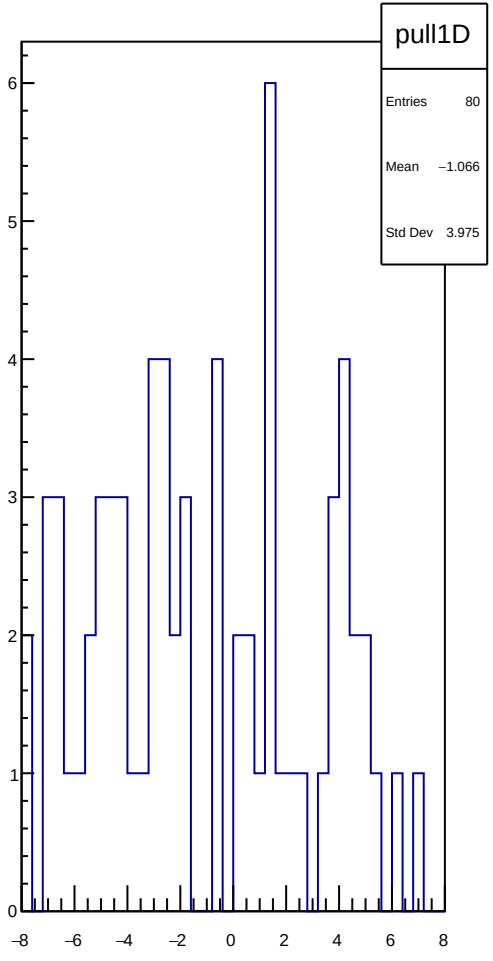

asym_cav4dQ_rms vs run
χ² / ndf 568.3 / 79
p0 236.5 ± 0.1895
250
245
240
235
230
225

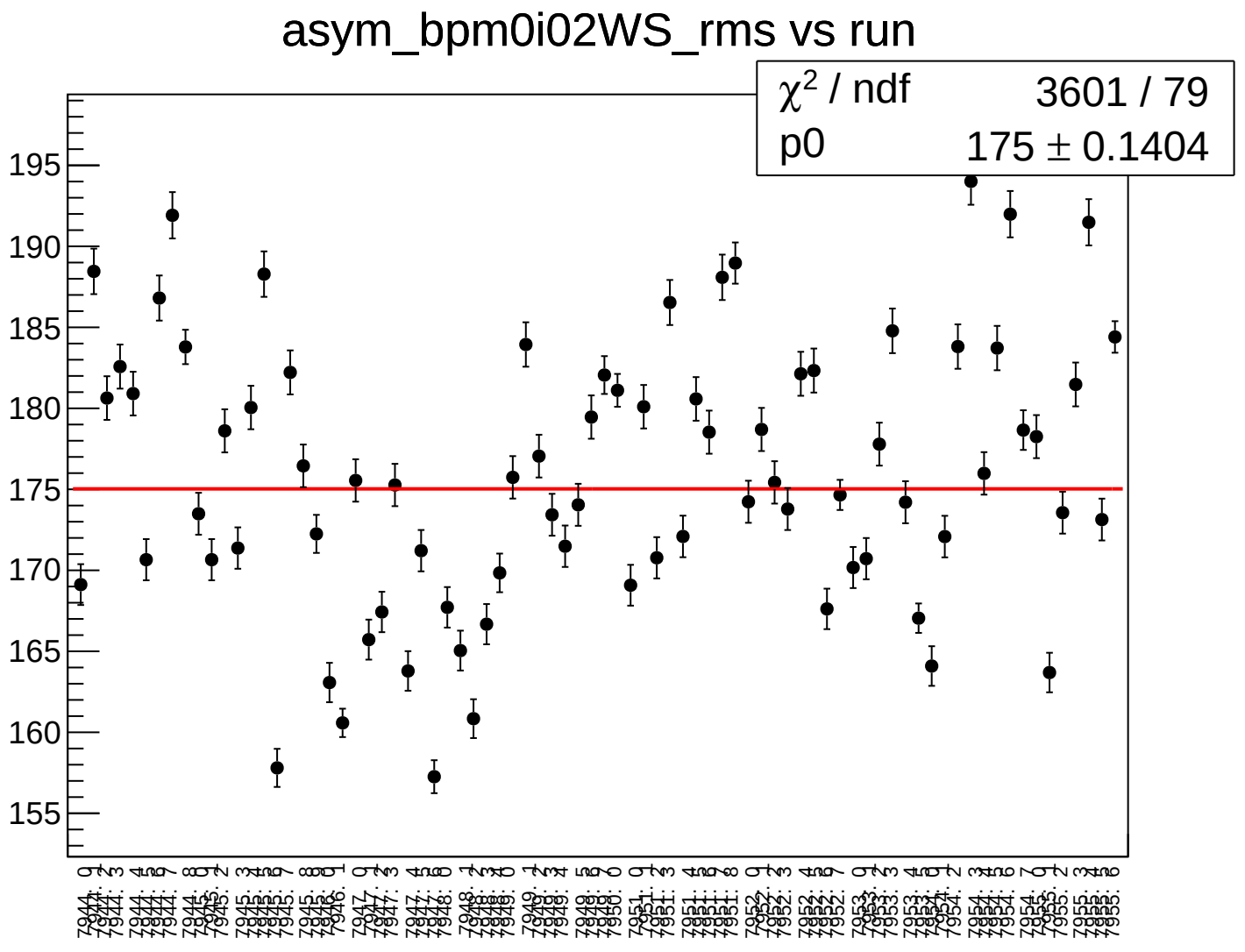

asym_bcm0l02_mean vs run
χ² / ndf 1943 / 79
p0 911.2 ± 189.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 80
Mean 6.707e+04
Std Dev 6.706e+04
8
6
4
2
0
−2
−4
−6
−8

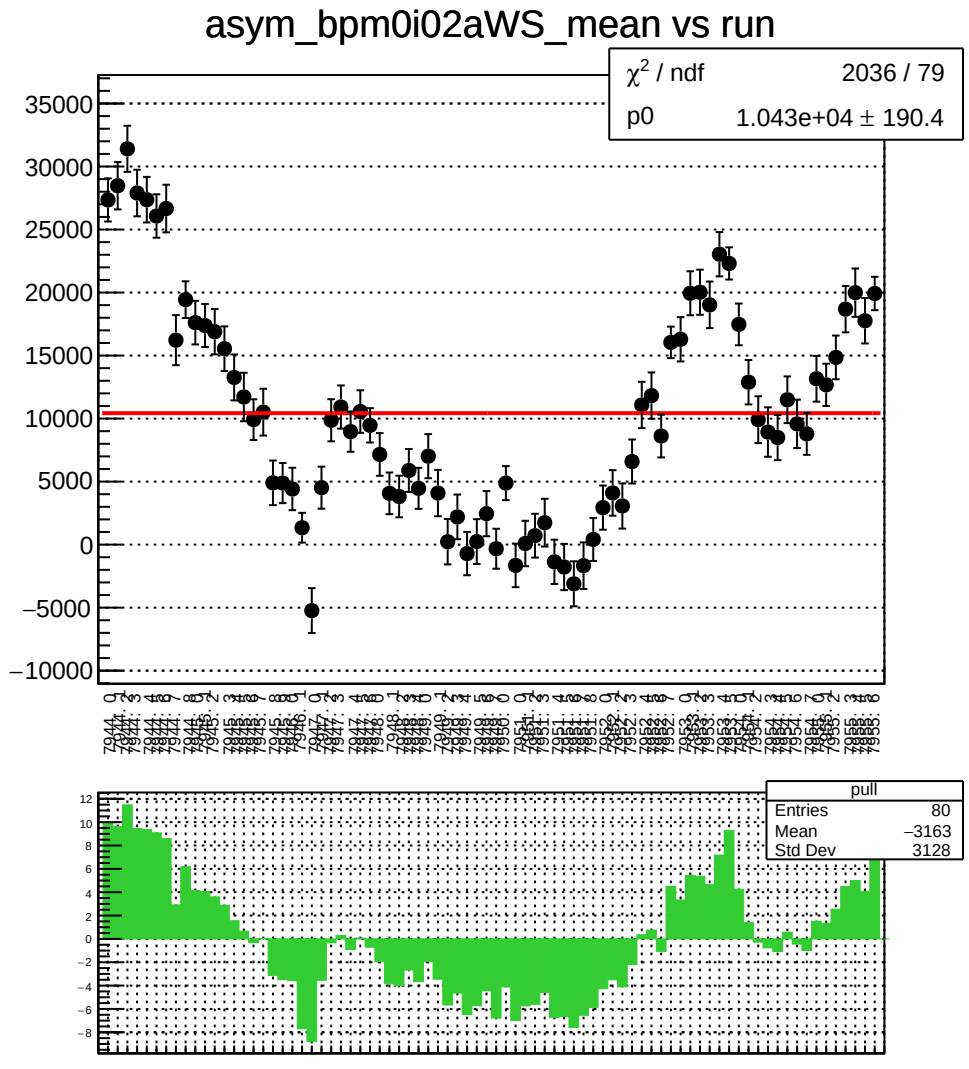

pull1D
Entries 80
Mean −0.2174
Std Dev 4.799
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

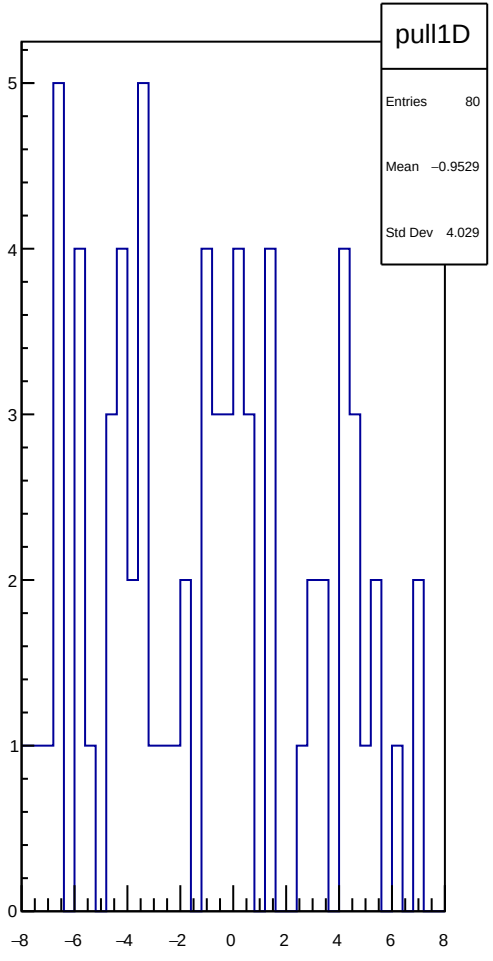

asym_bcm0l02_rms vs run
χ² / ndf 1135 / 79
p0 167.4 ± 0.1341
180
175
170
165
160
155

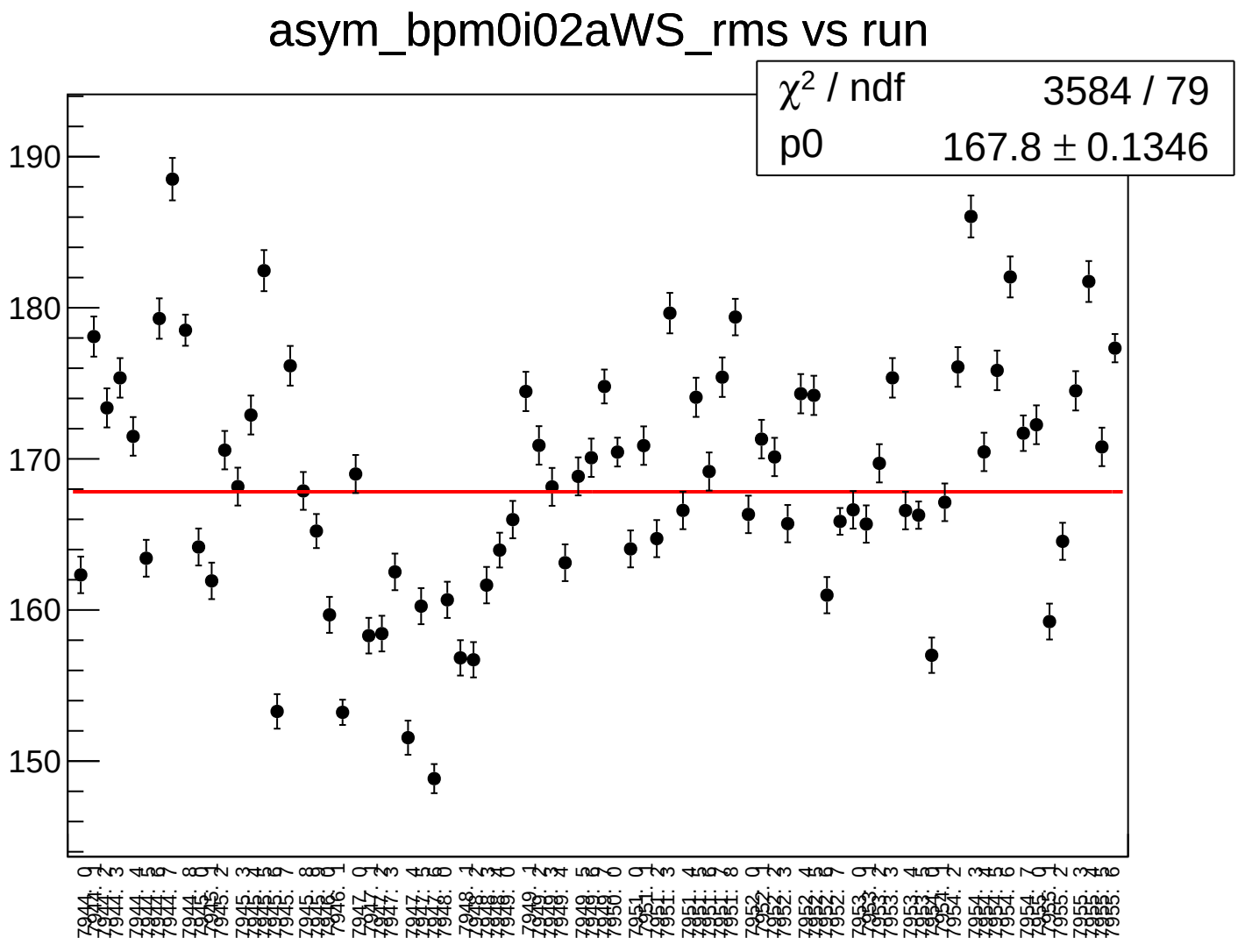

asym_bpm0i02WS_mean vs run
χ² / ndf 2254 / 79
p0 6730 ± 198.5
30000
20000
10000
0
−10000
pull
Entries 80
Mean 1.561e+04
Std Dev 1.561e+04
12
10
8
6
4
2
0
−2
−4
−6
−8

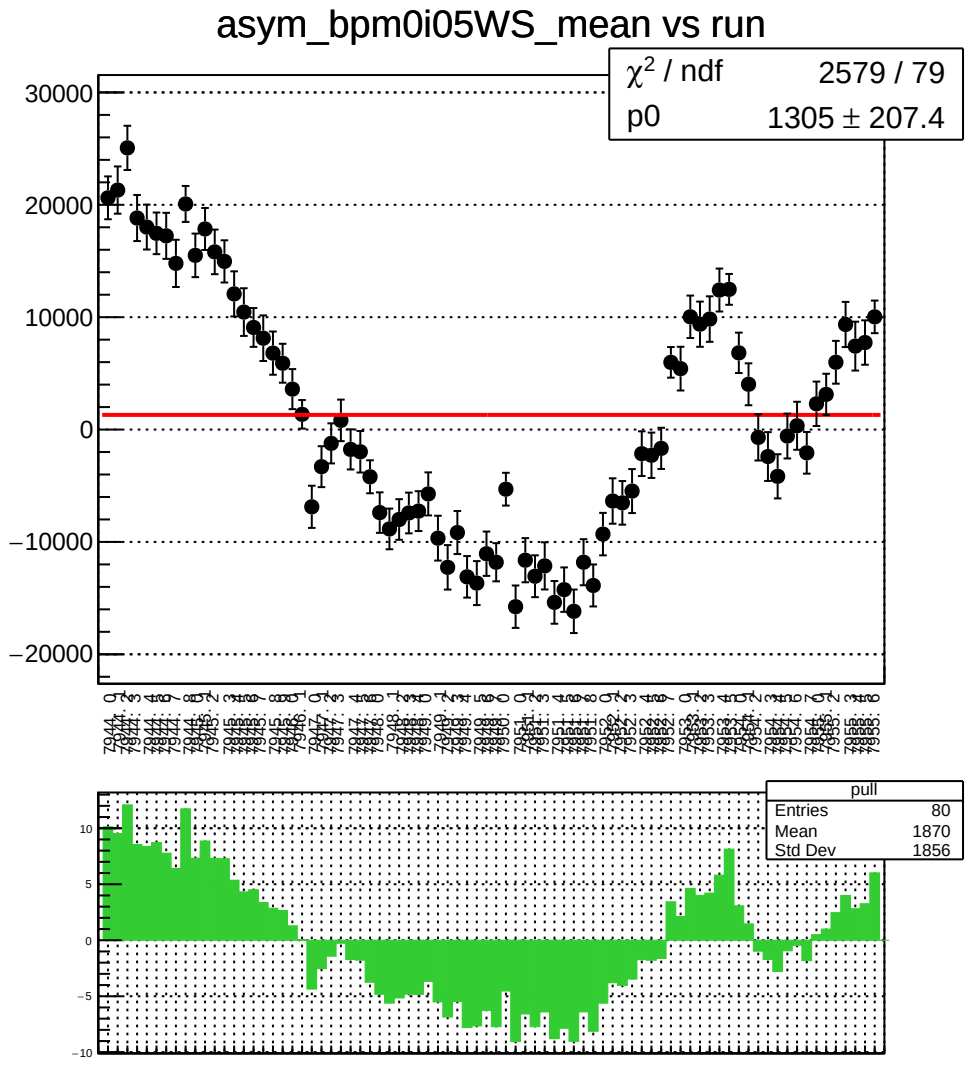

pull1D
Entries 80
Mean −1.066
Std Dev 3.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

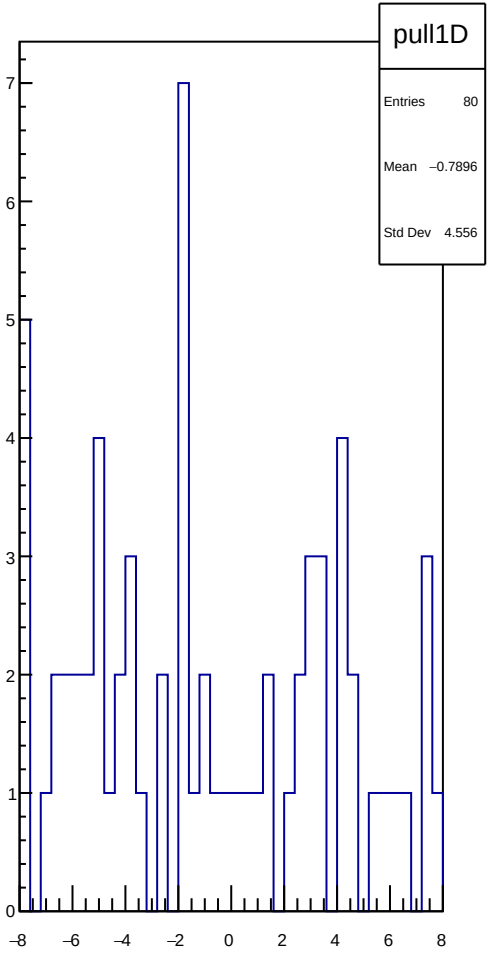

asym_bpm0i02WS_rms vs run
χ² / ndf 3601 / 79
p0 175 ± 0.1404
195
190
185
180
175
170
165
160
155

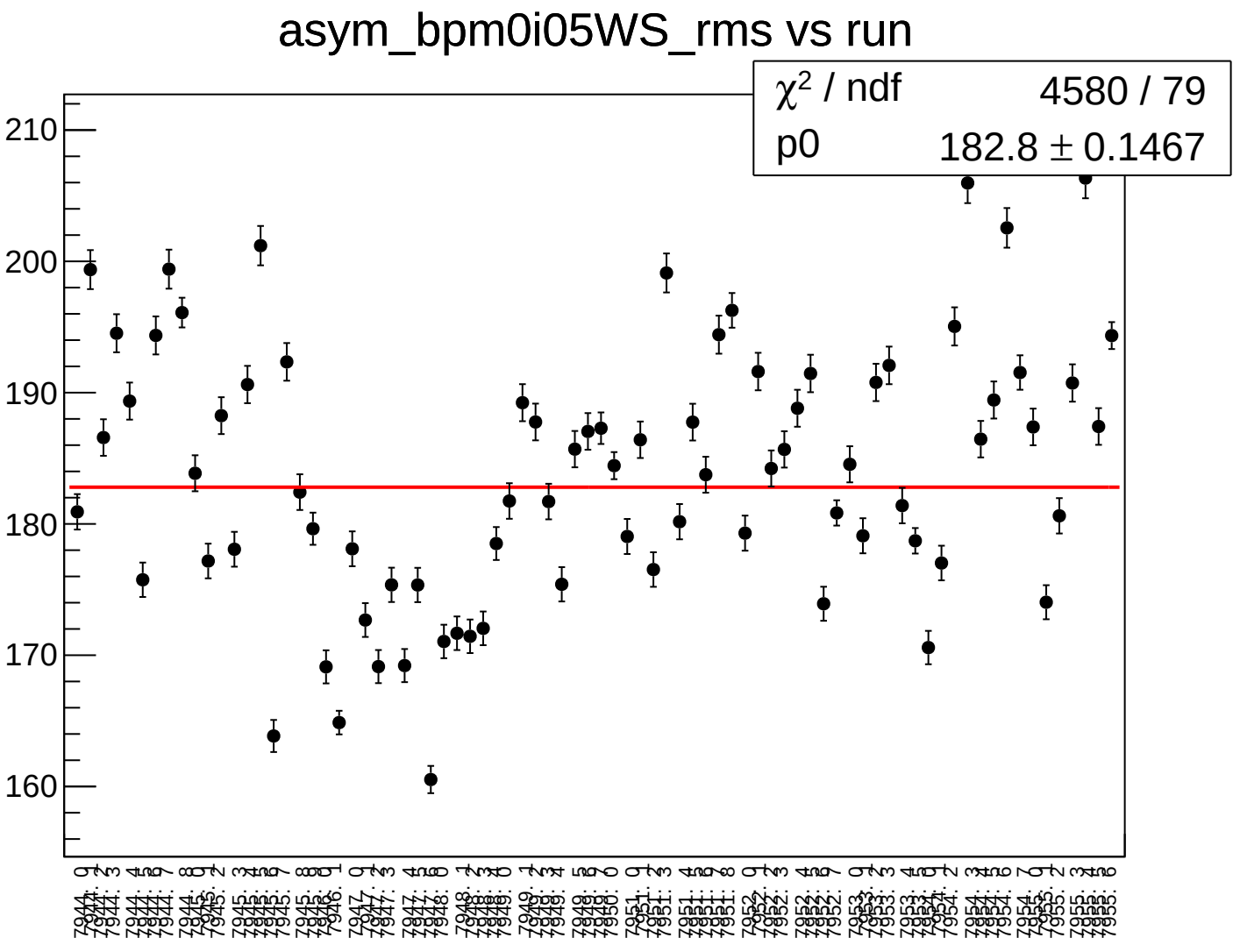

asym_bpm0i02aWS_mean vs run
χ² / ndf 2036 / 79
p0 1.043e+04 ± 190.4
pull
Entries 80
Mean −3163
Std Dev 3128

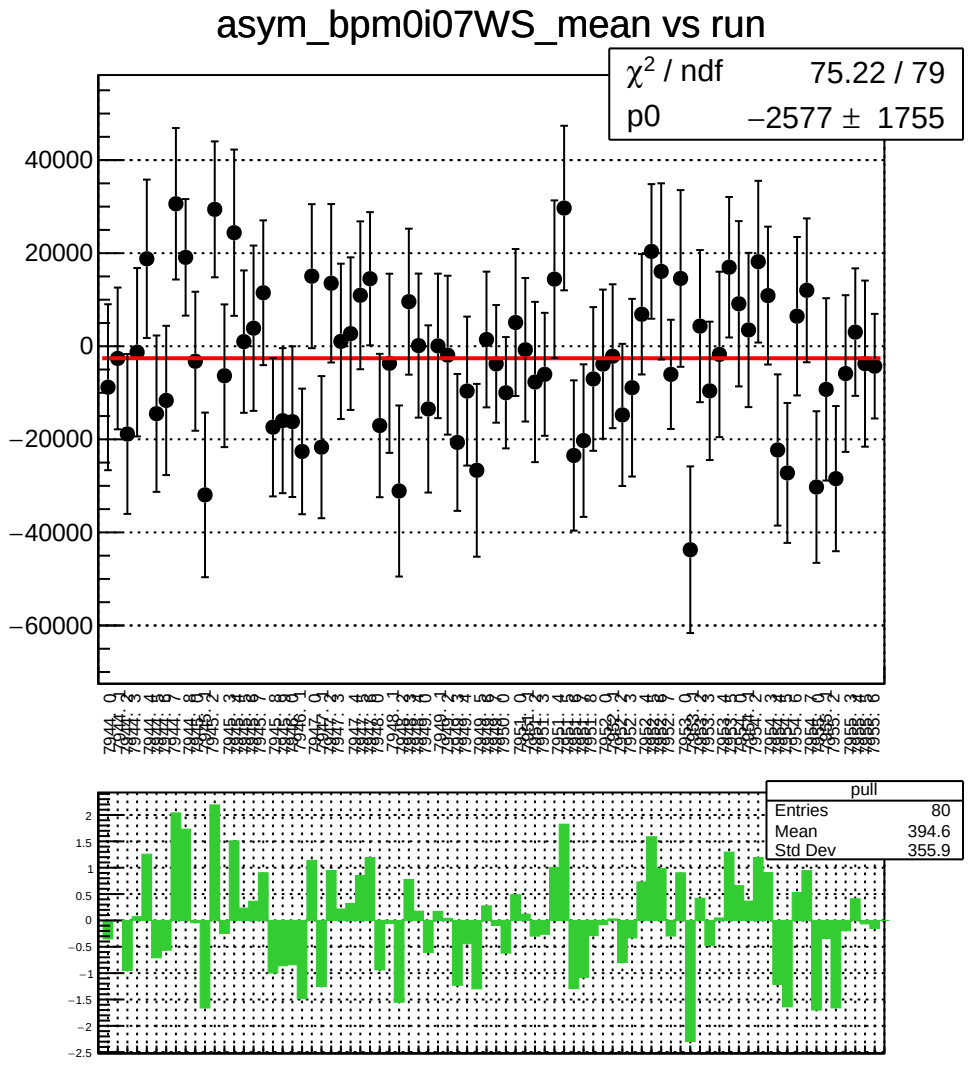

pull1D
Entries 80
Mean −0.9529
Std Dev 4.029

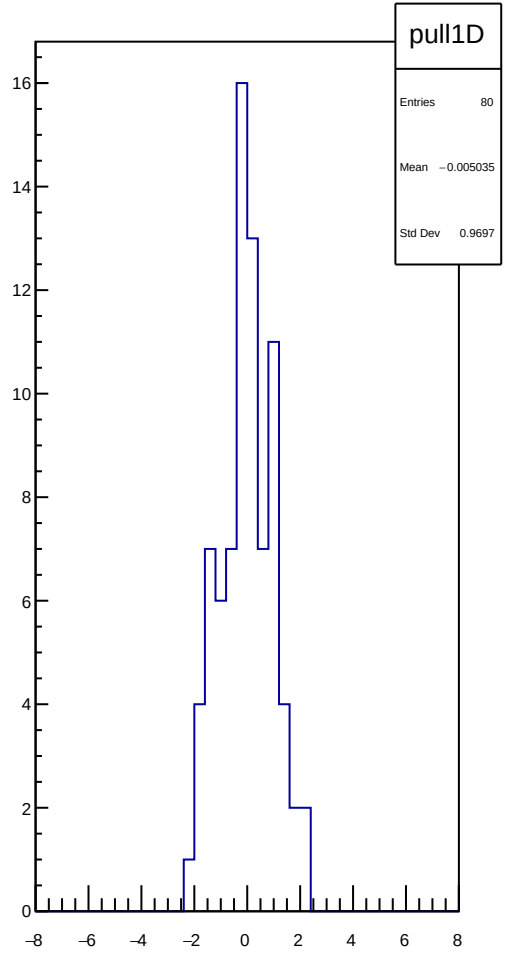

asym_bpm0i02aWS_rms vs run
χ² / ndf 3584 / 79
p0 167.8 ± 0.1346
190
180
170
160
150

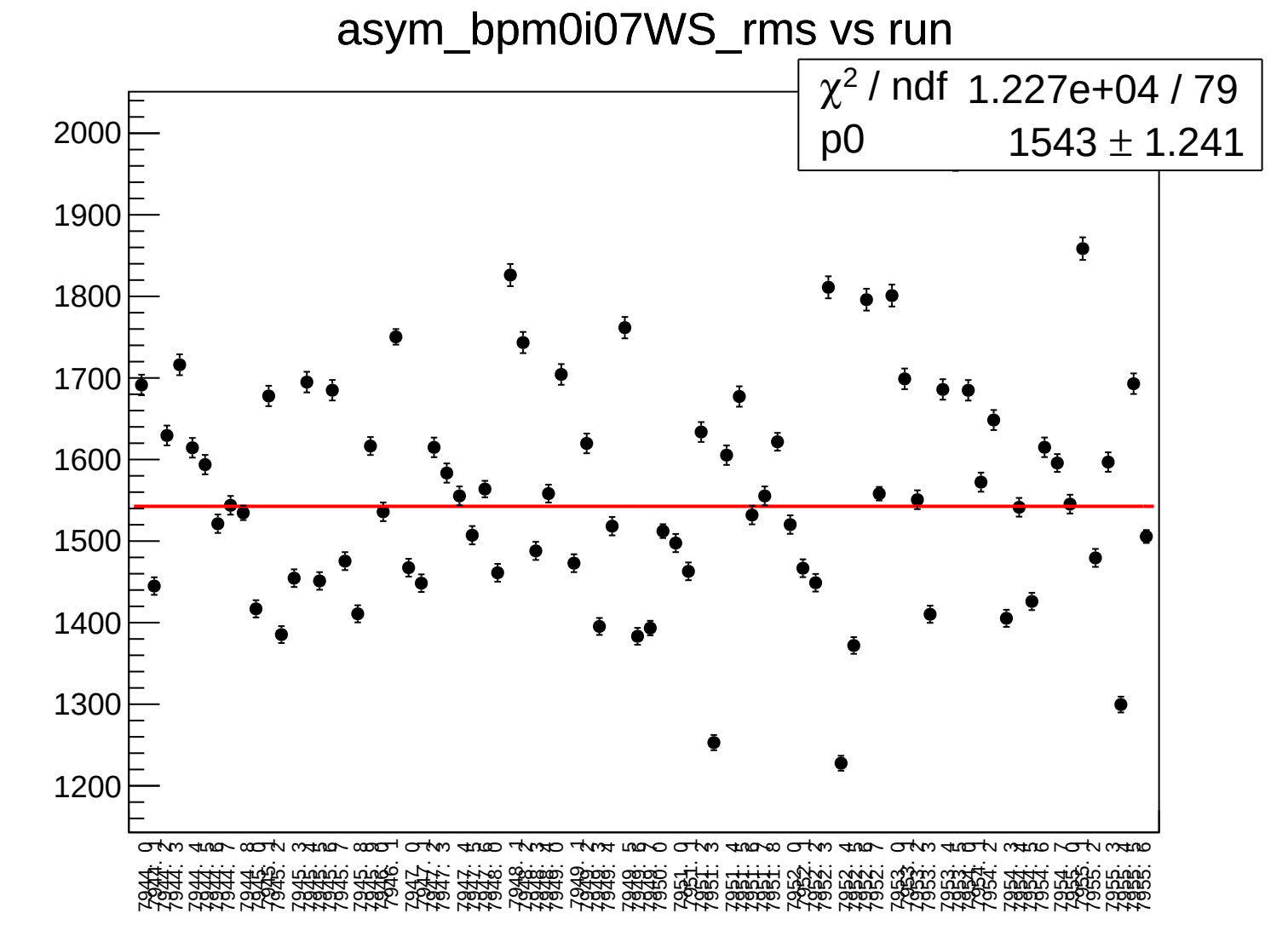

asym_bpm0i05WS_mean vs run
χ² / ndf 2579 / 79
p0 1305 ± 207.4
30000
20000
10000
0
−10000
−20000
pull
Entries 80
Mean 1870
Std Dev 1856
10
5
0
−5
−10

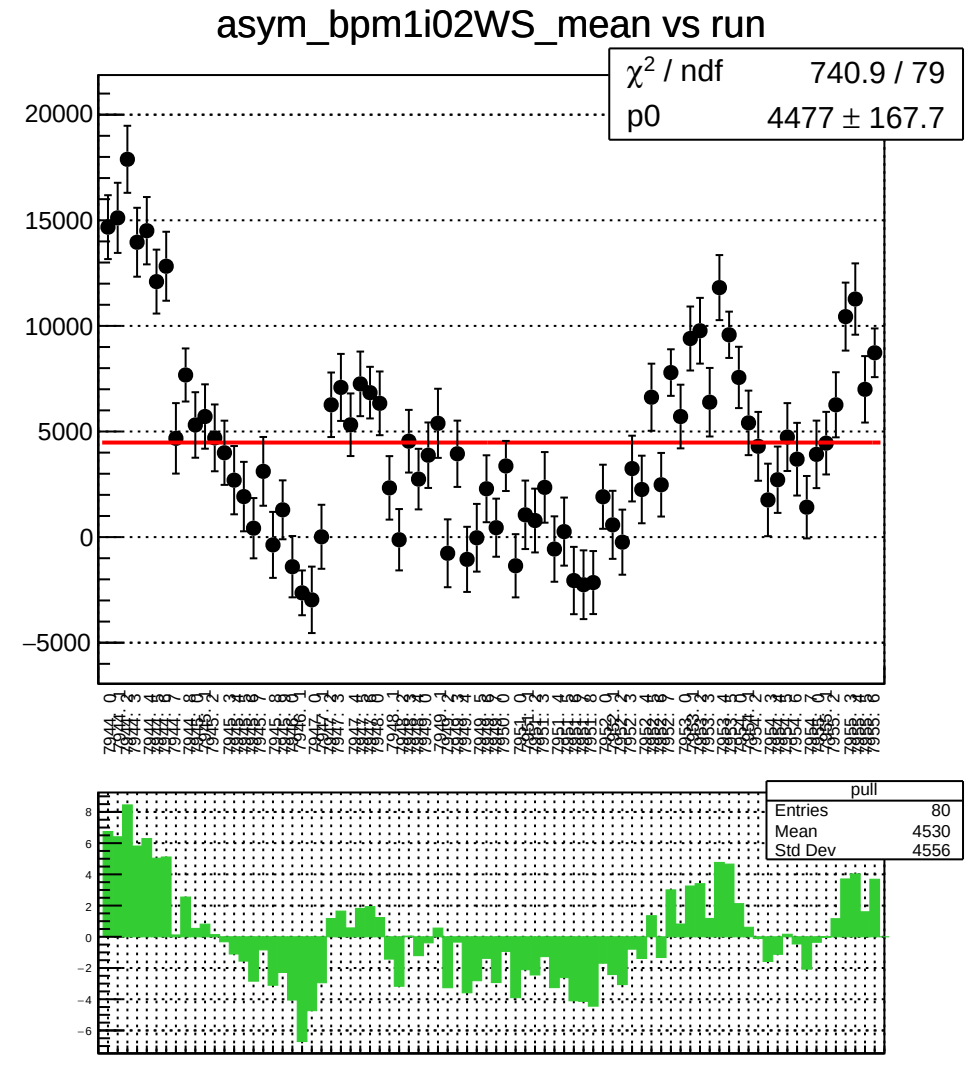

pull1D
Entries 80
Mean −0.7896
Std Dev 4.556
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

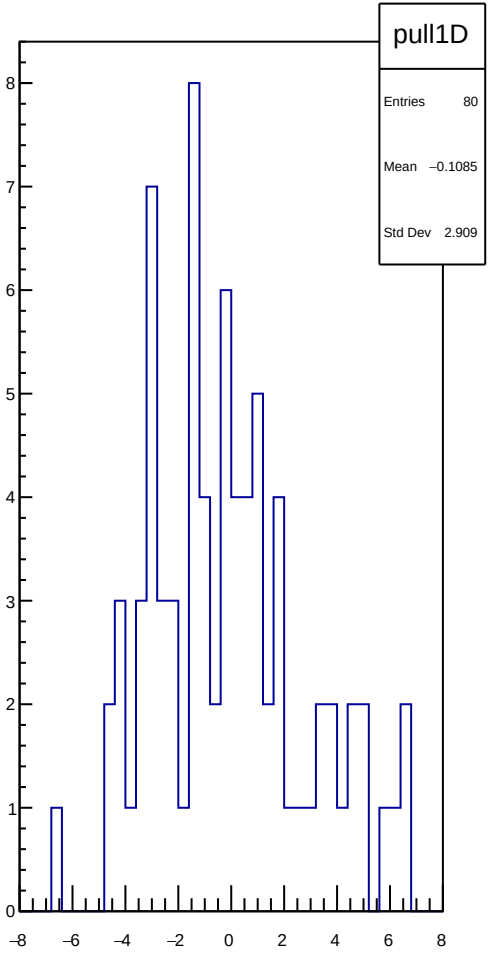

asym_bpm0i05WS_rms vs run
χ² / ndf 4580 / 79
p0 182.8 ± 0.1467
210
200
190
180
170
160

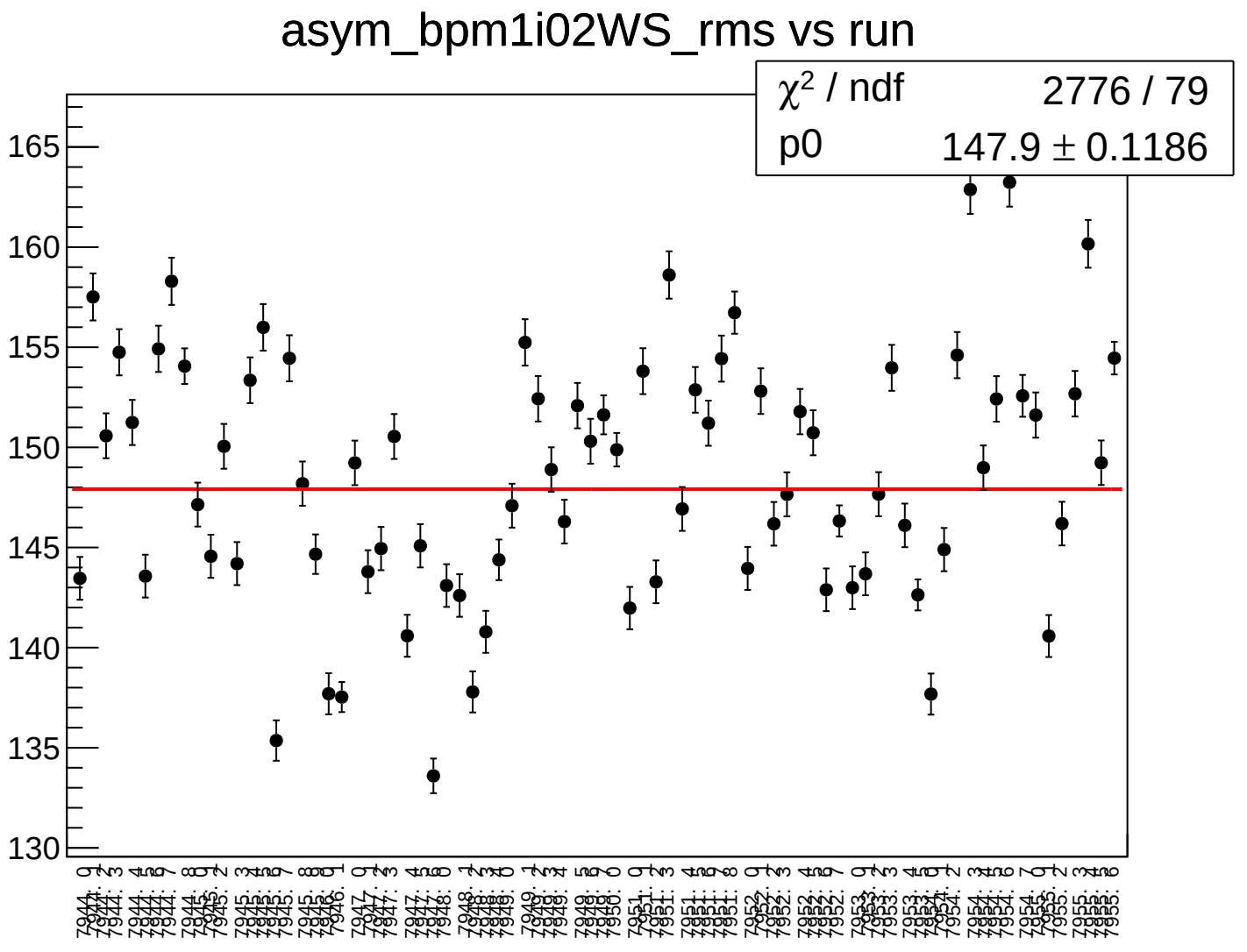

asym_bpm0i07WS_mean vs run
χ² / ndf 75.22 / 79
p0 −2577 ± 1755
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean 394.6
Std Dev 355.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

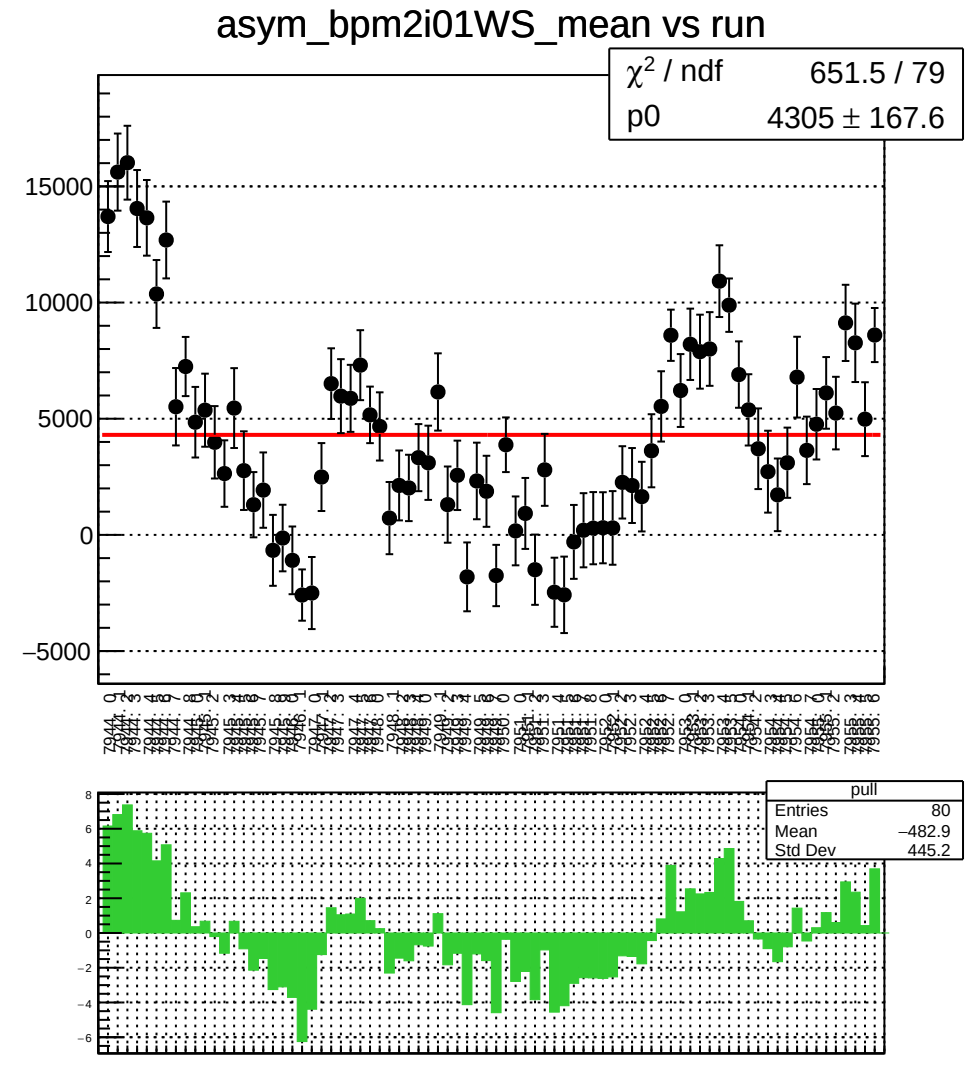

pull1D
Entries 80
Mean −0.005035
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

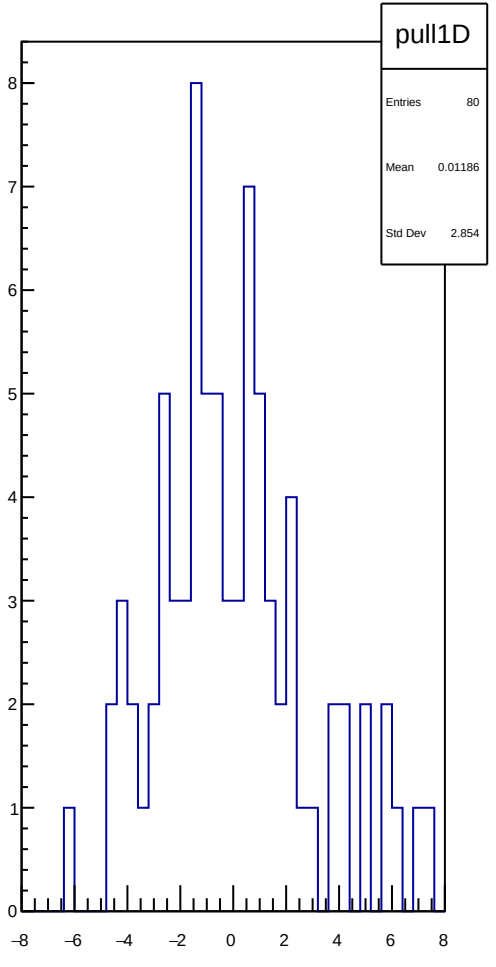

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.227e+04 / 79
p0 1543 ± 1.241
2000
1900
1800
1700
1600
1500
1400
1300
1200

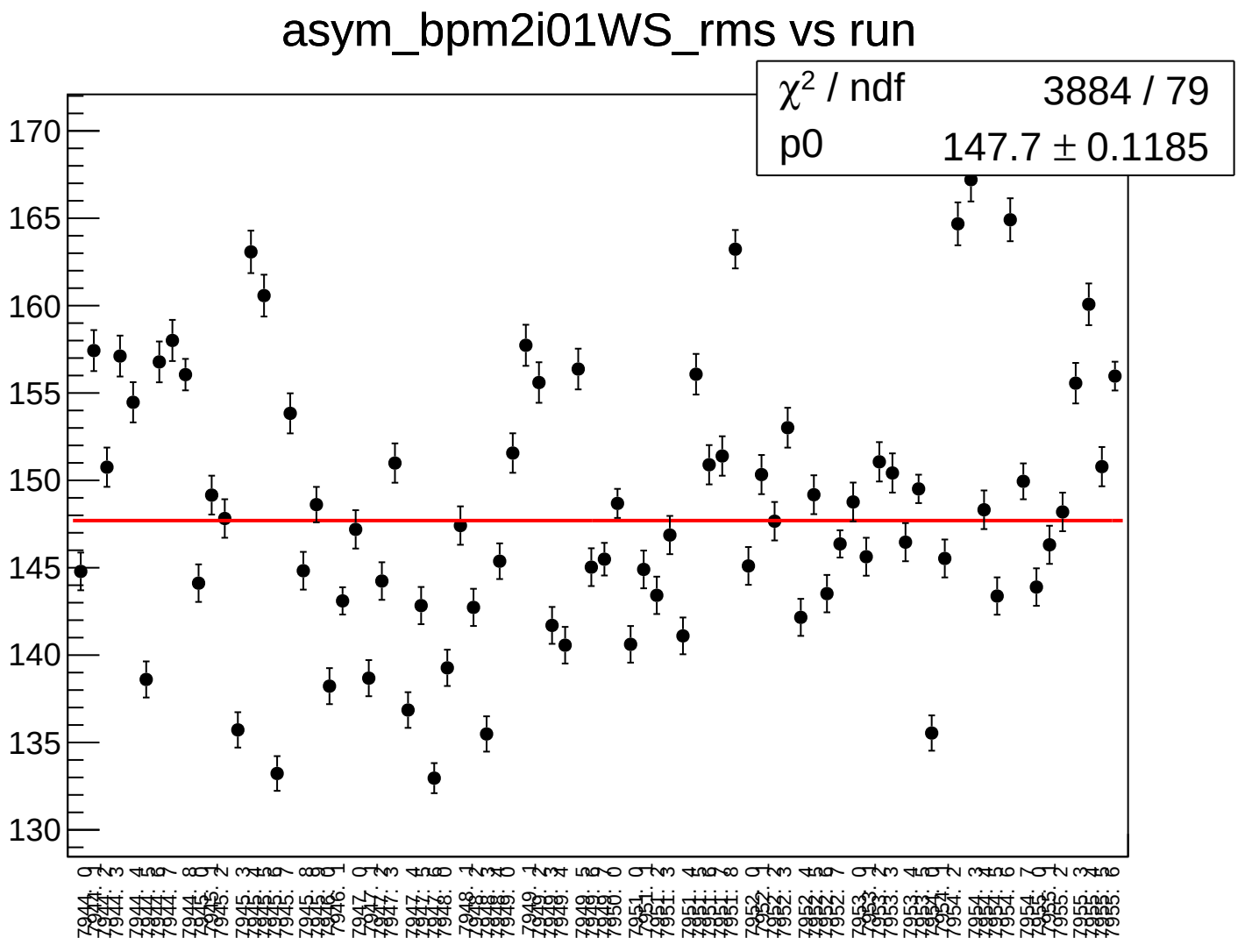

asym_bpm1i02WS_mean vs run
χ² / ndf 740.9 / 79
p0 4477 ± 167.7
20000
15000
10000
5000
0
−5000
pull
Entries 80
Mean 4530
Std Dev 4556
8
6
4
2
0
−2
−4
−6

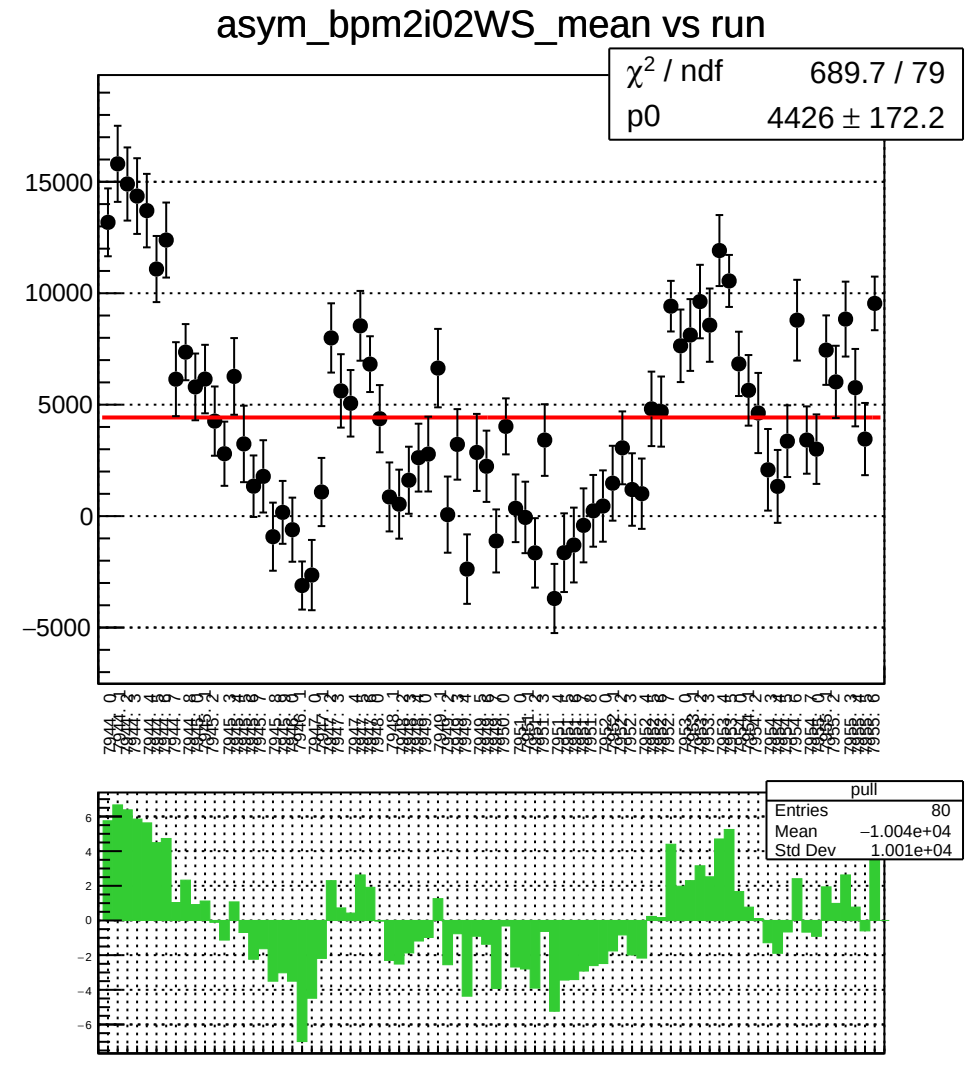

pull1D
Entries 80
Mean −0.1085
Std Dev 2.909
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

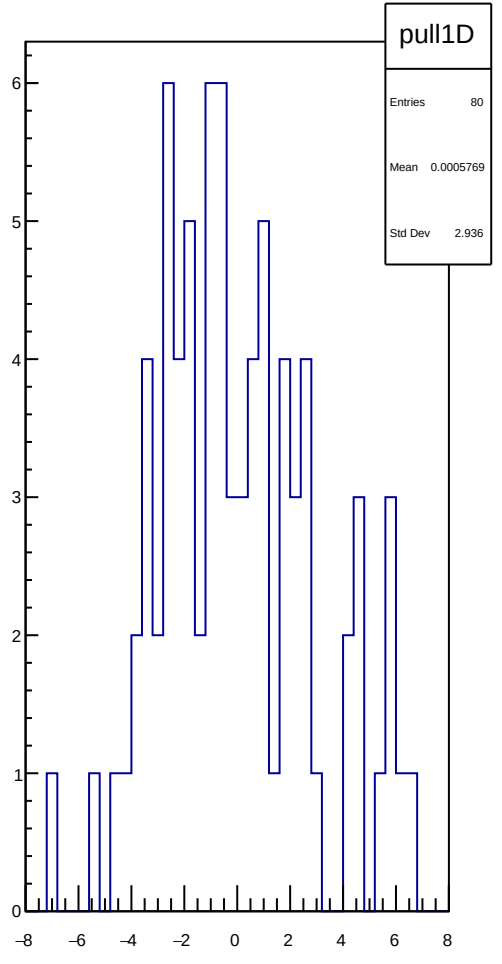

asym_bpm1i02WS_rms vs run
χ² / ndf 2776 / 79
p0 147.9 ± 0.1186
165
160
155
150
145
140
135
130

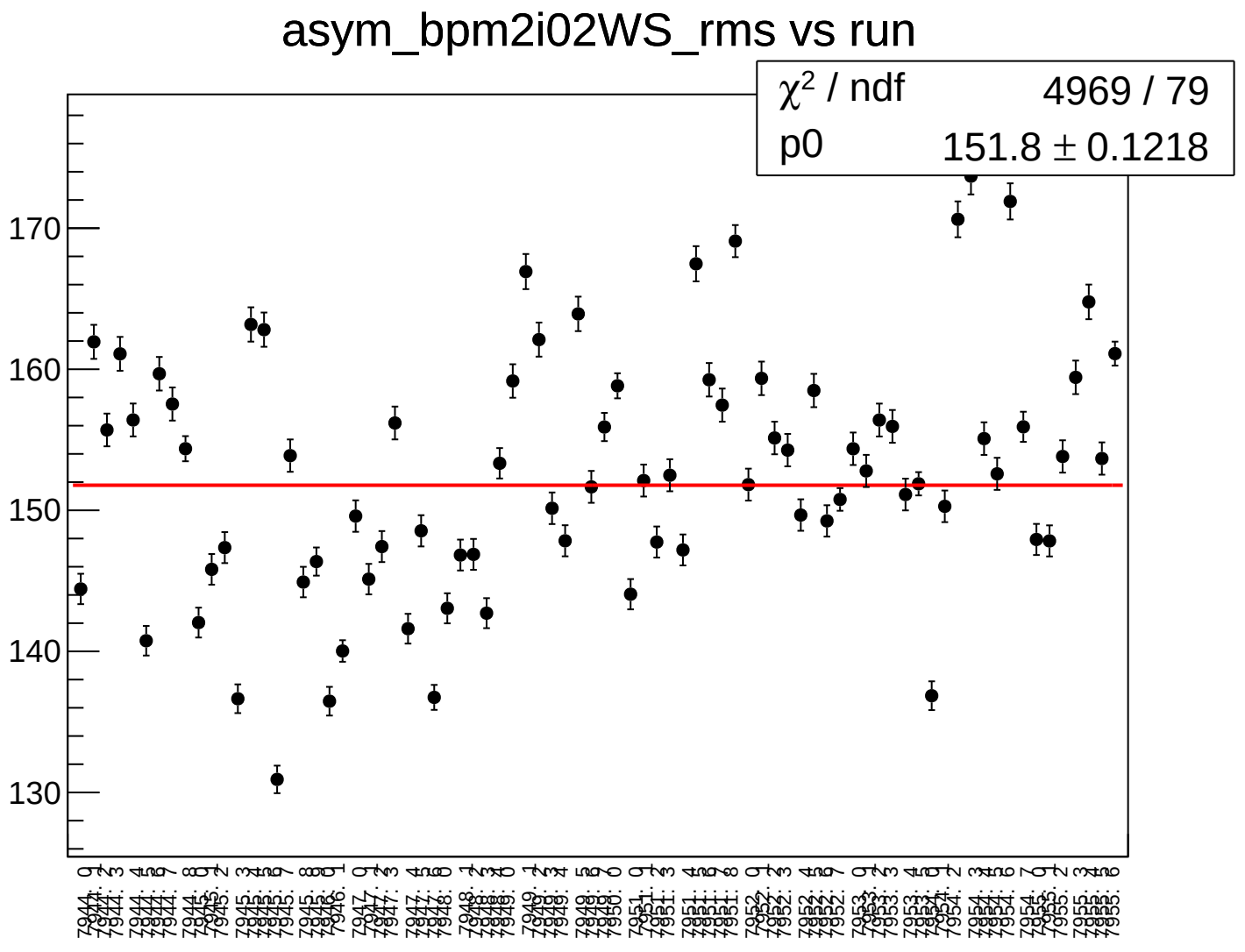

asym_bpm2i01WS_mean vs run
χ² / ndf 651.5 / 79
p0 4305 ± 167.6
15000
10000
5000
0
−5000
pull
Entries 80
Mean −482.9
Std Dev 445.2
8
6
4
2
0
−2
−4
−6

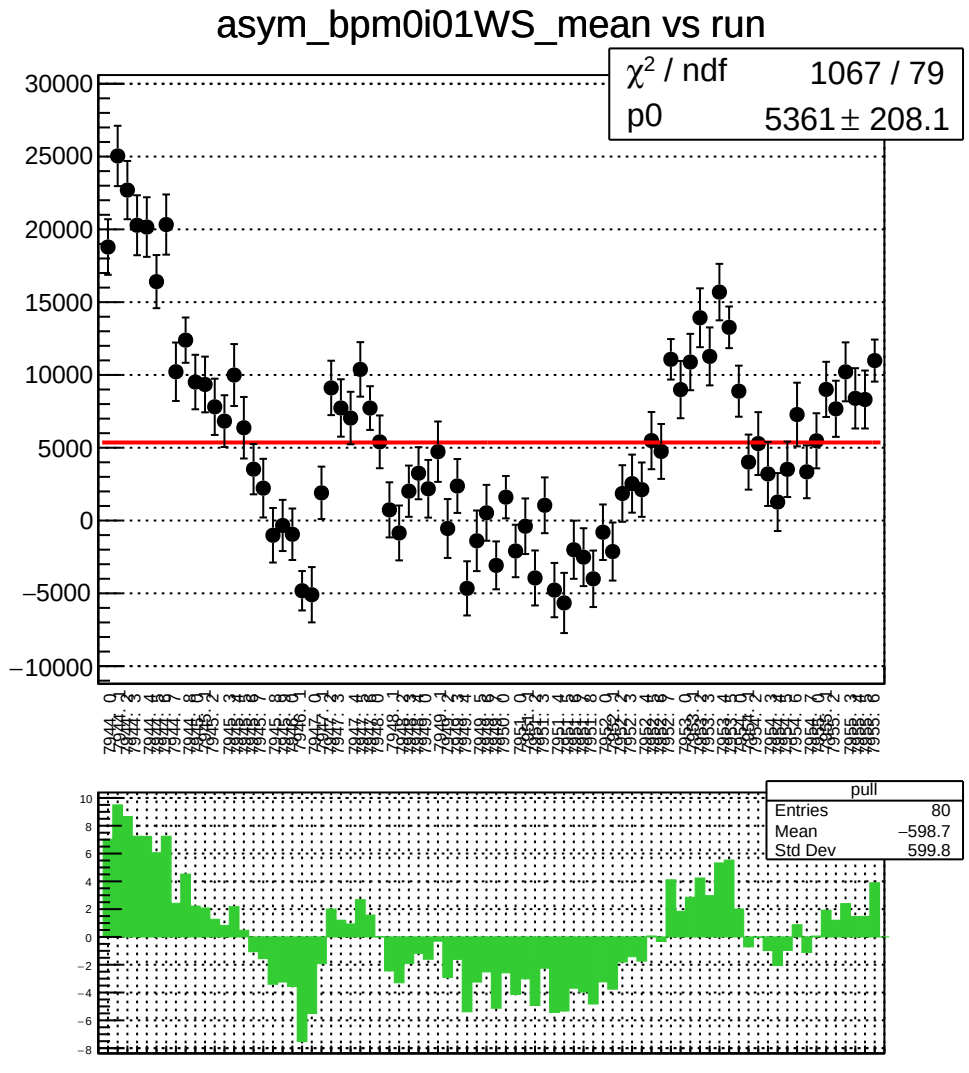

pull1D
Entries 80
Mean 0.01186
Std Dev 2.854
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

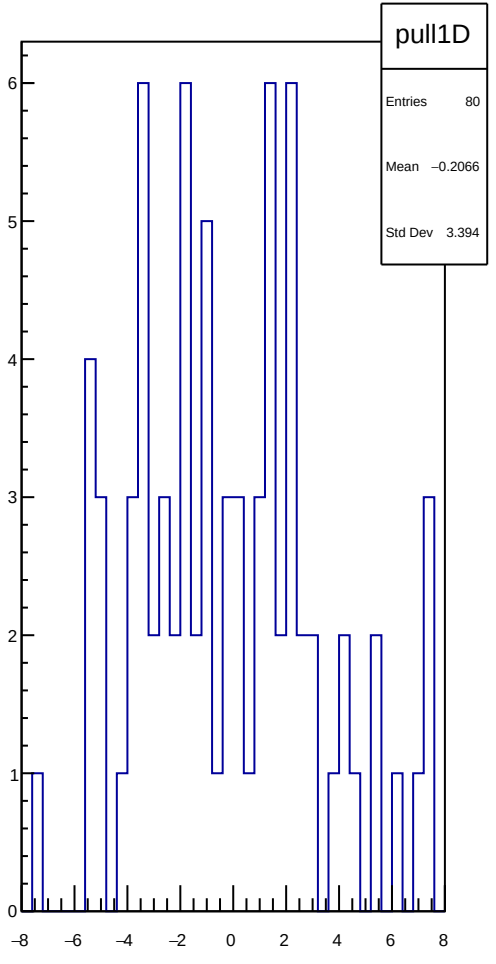

asym_bpm2i01WS_rms vs run
χ^2 / ndf 3884 / 79
p0 147.7 ± 0.1185
170
165
160
155
150
145
140
135
130

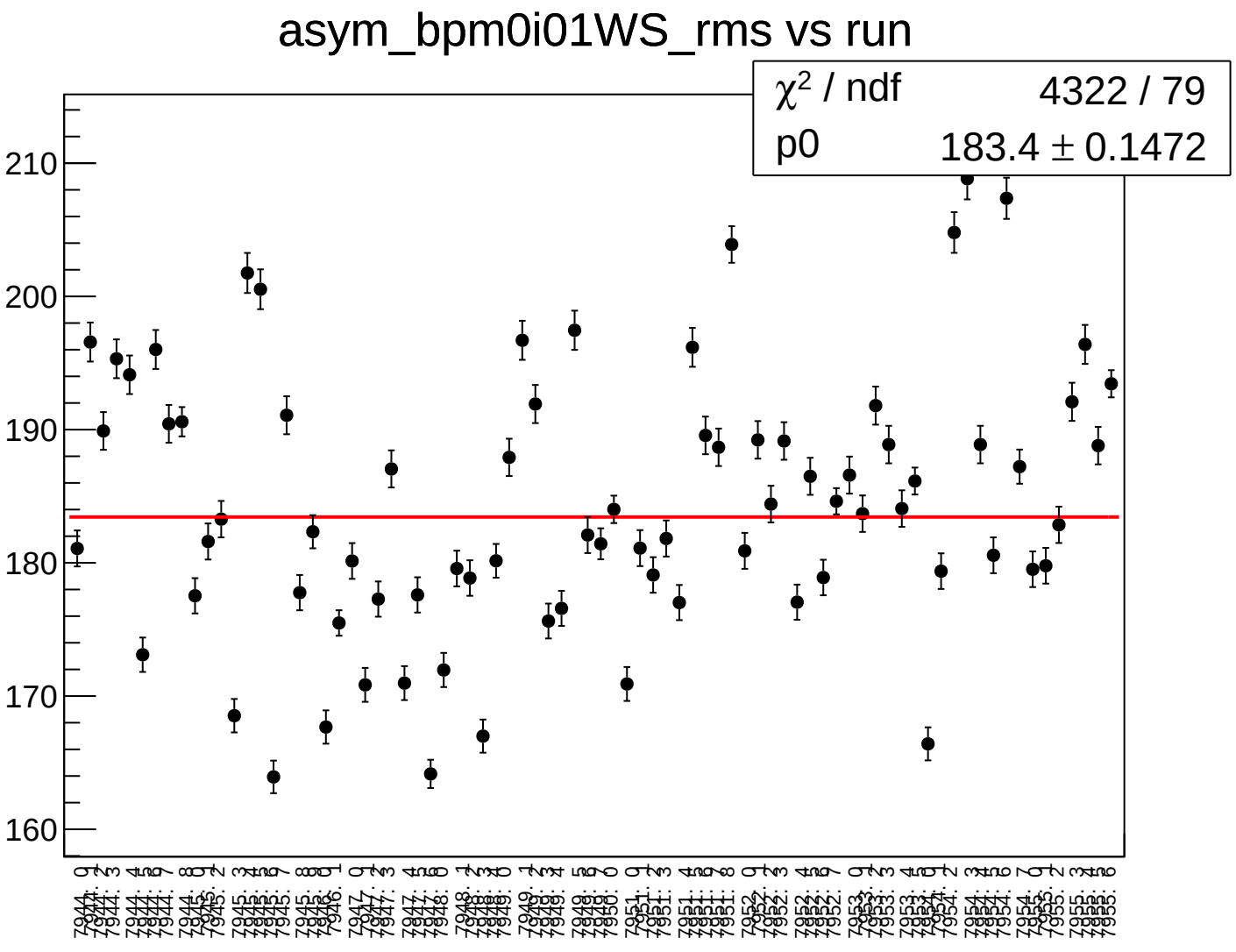

asym_bpm2i02WS_mean vs run
χ² / ndf 689.7 / 79
p0 4426 ± 172.2
15000
10000
5000
0
−5000
pull
Entries 80
Mean −1.004e+04
Std Dev 1.001e+04
6
4
2
0
−2
−4
−6

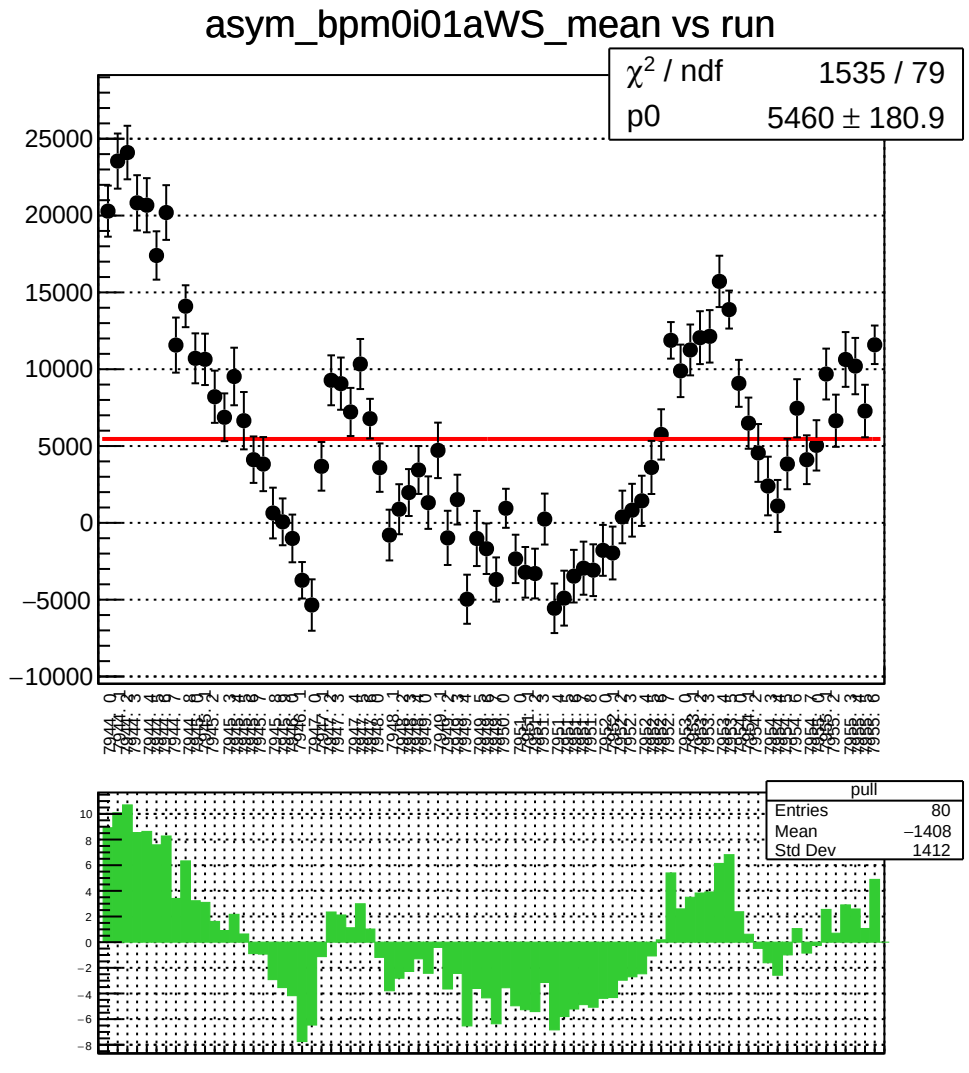

pull1D
Entries 80
Mean 0.0005769
Std Dev 2.936
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

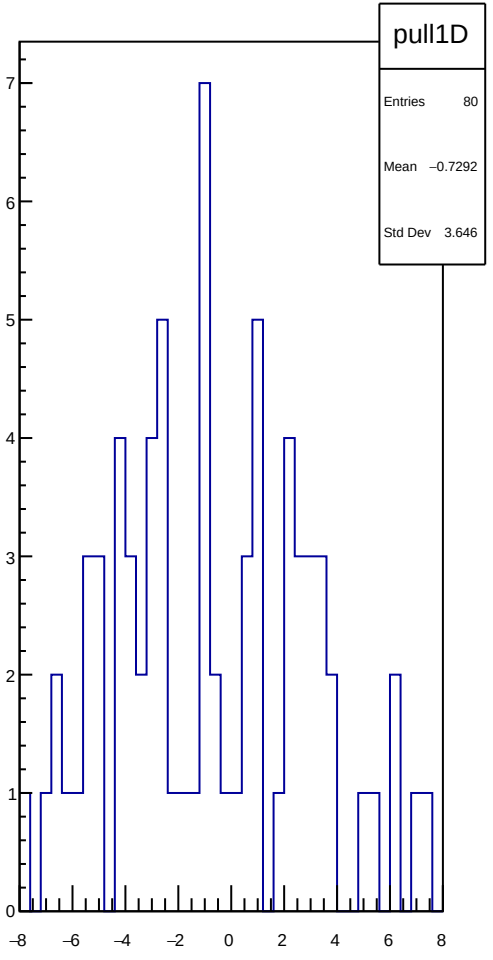

asym_bpm2i02WS_rms vs run
χ² / ndf 4969 / 79
p0 151.8 ± 0.1218
170
160
150
140
130

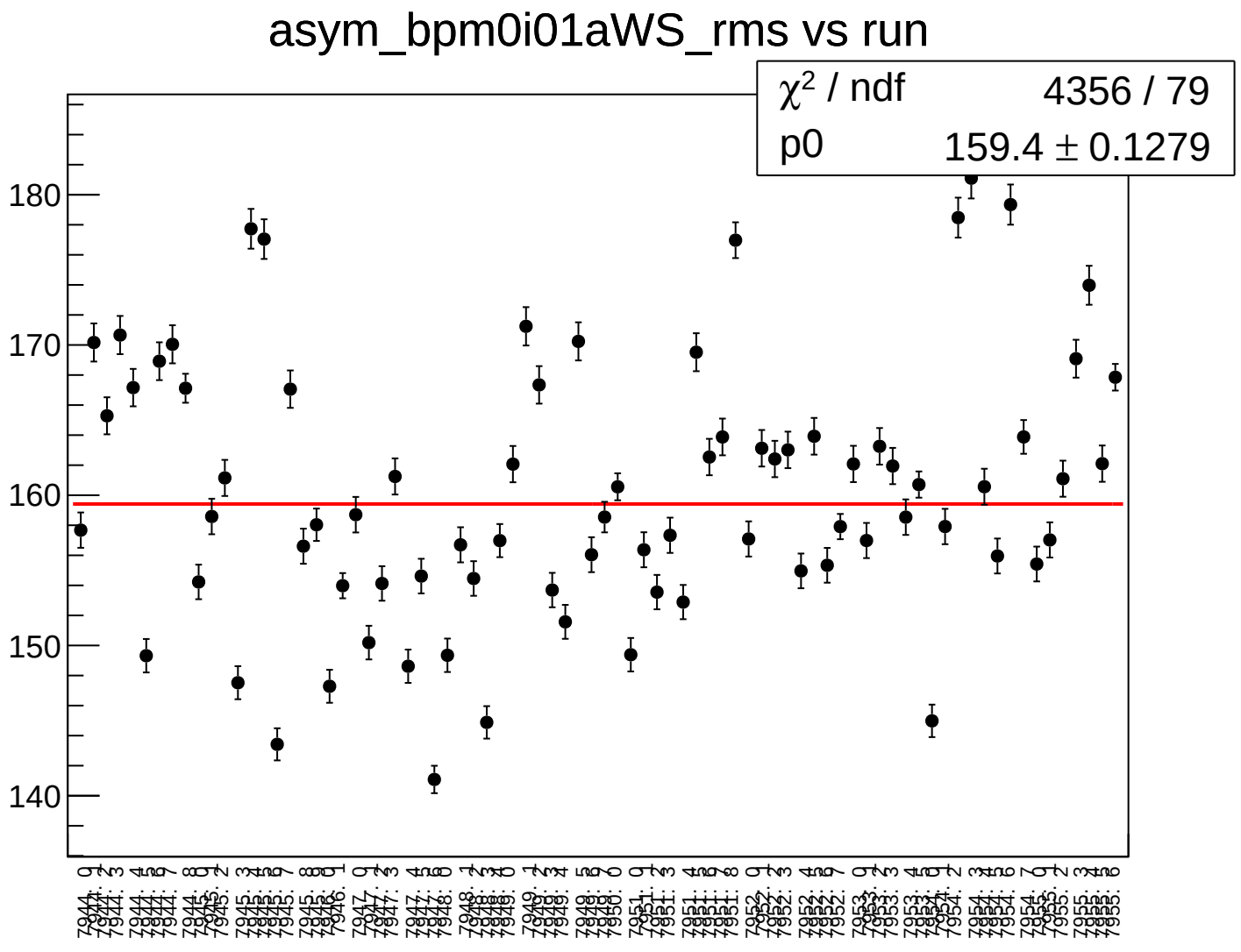

asym_bpm0i01WS_mean vs run
χ² / ndf 1067 / 79
p0 5361 ± 208.1
pull
Entries 80
Mean −598.7
Std Dev 599.8

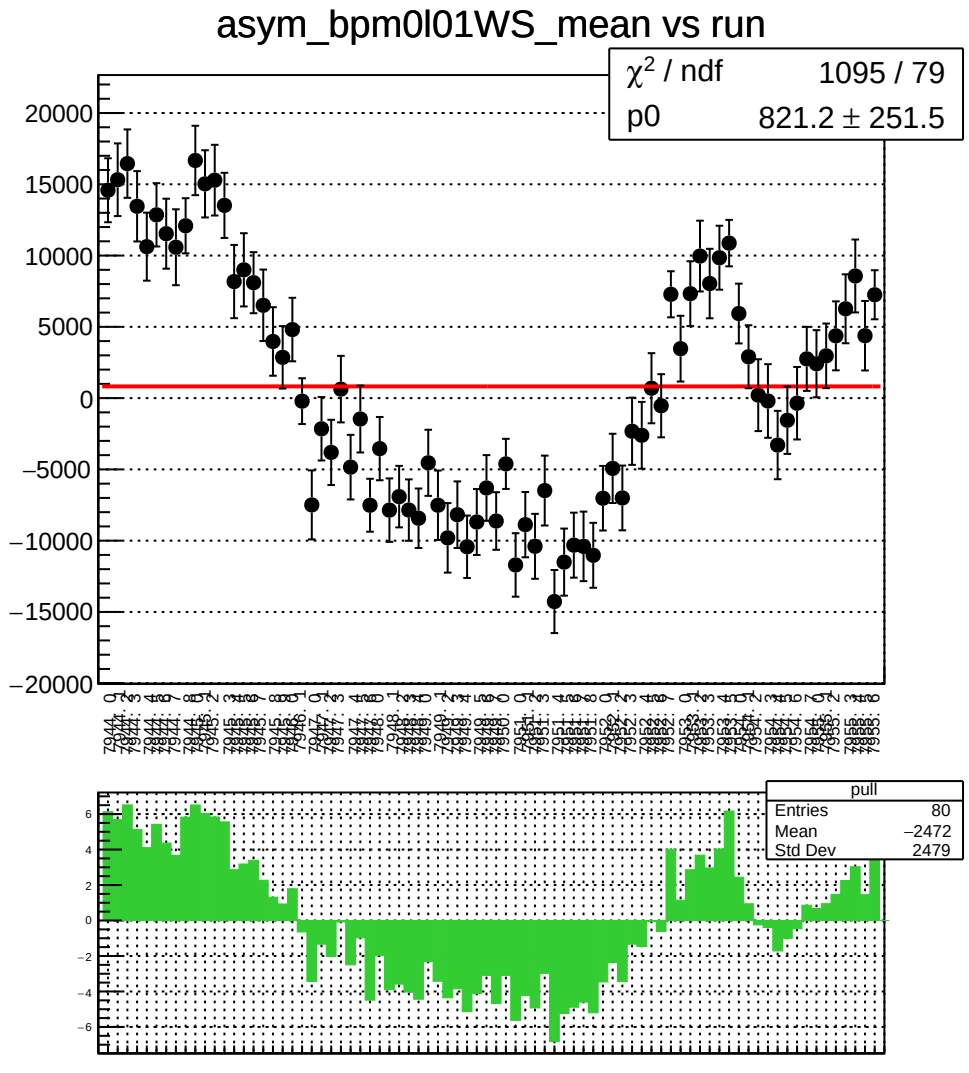

pull1D
Entries 80
Mean −0.2066
Std Dev 3.394

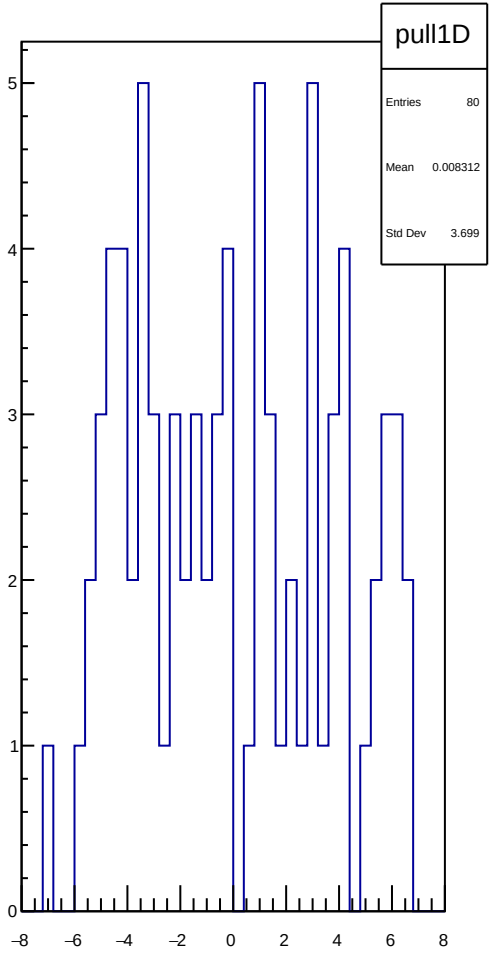

asym_bpm0i01WS_rms vs run
χ² / ndf 4322 / 79
p0 183.4 ± 0.1472
210
200
190
180
170
160

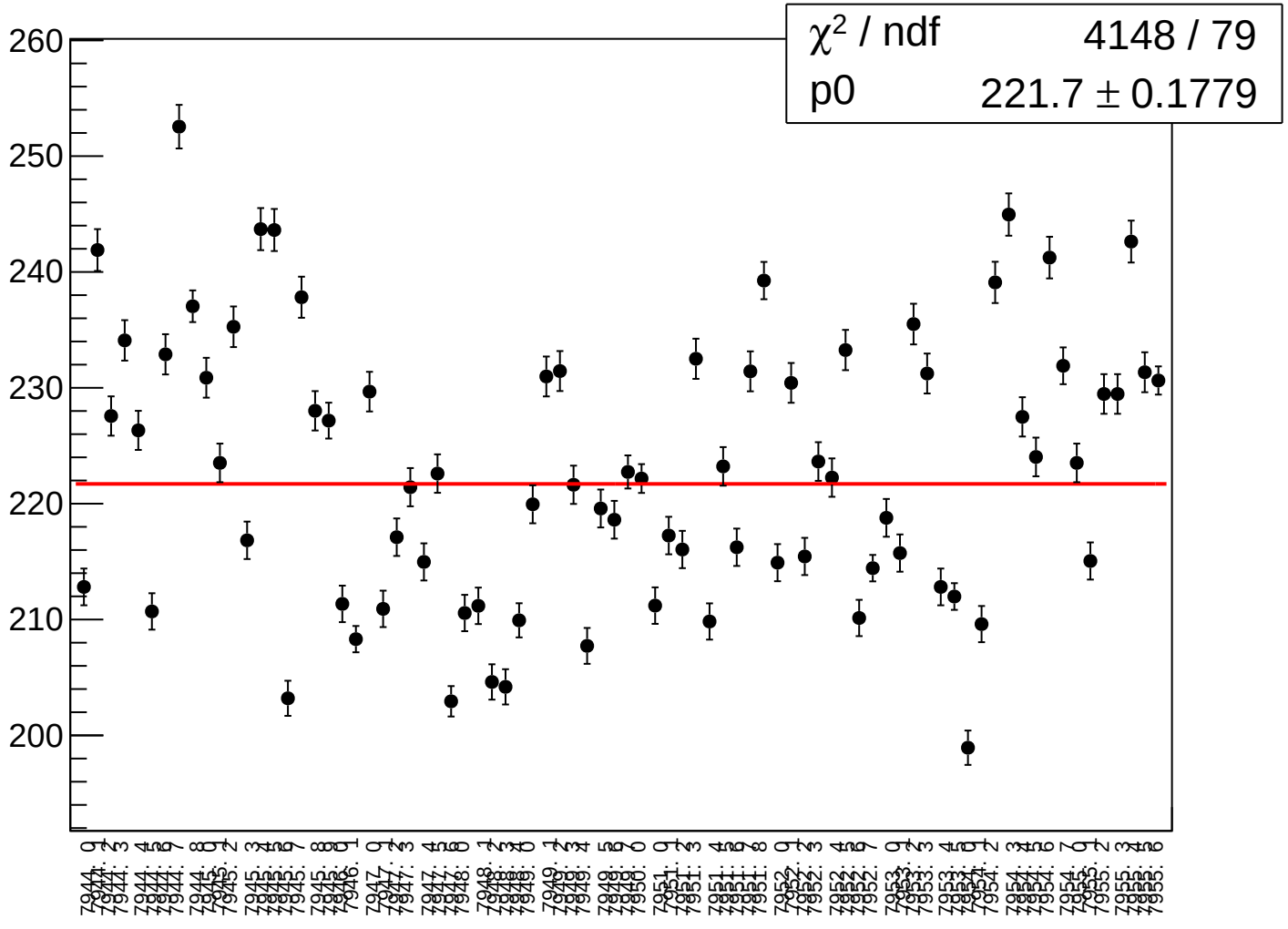

asym_bpm0i01aWS_mean vs run
χ² / ndf 1535 / 79
p0 5460 ± 180.9
pull
Entries 80
Mean −1408
Std Dev 1412

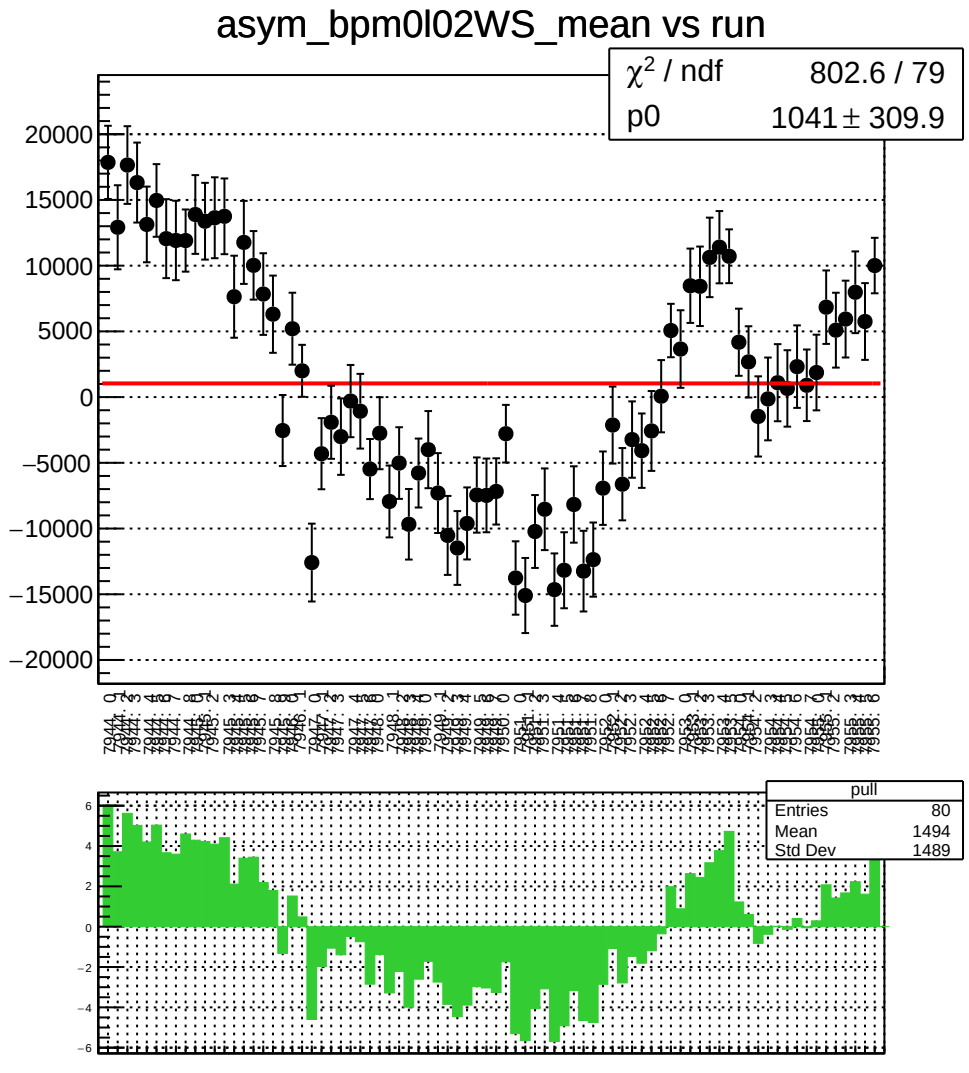

pull1D
Entries 80
Mean −0.7292
Std Dev 3.646

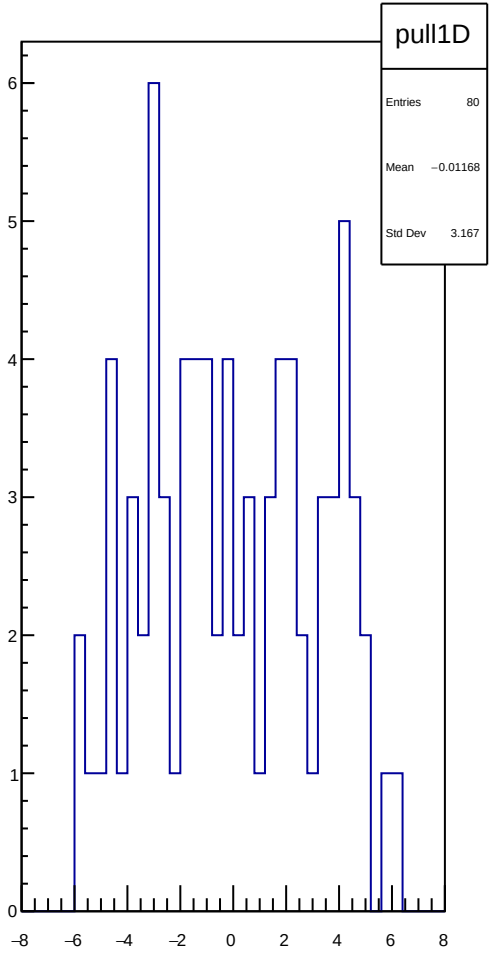

asym_bpm0i01aWS_rms vs run
χ² / ndf 4356 / 79
p0 159.4 ± 0.1279
180
170
160
150
140

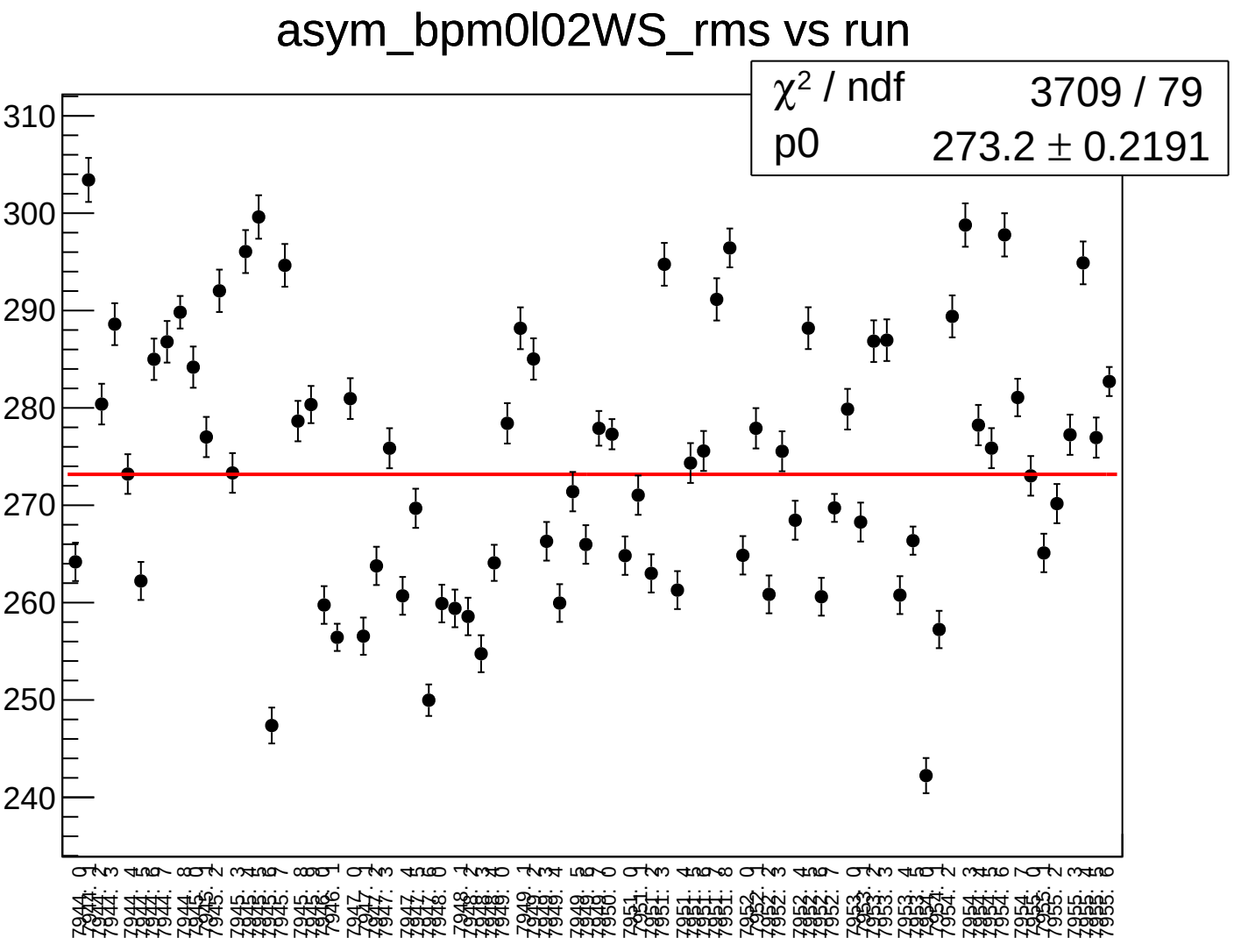

asym_bpm0l01WS_mean vs run
χ² / ndf 1095 / 79
p0 821.2 ± 251.5
pull
Entries 80
Mean −2472
Std Dev 2479

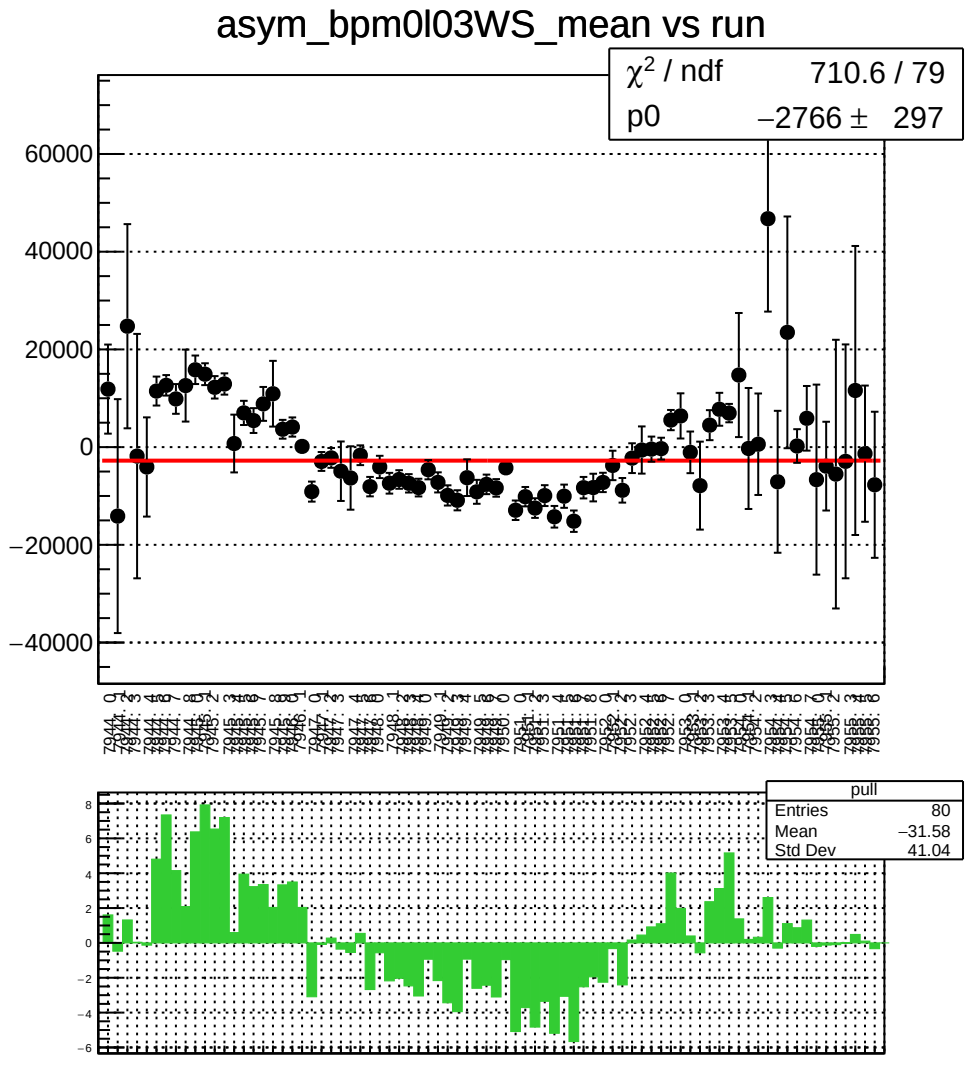

pull1D
Entries 80
Mean 0.008312
Std Dev 3.699

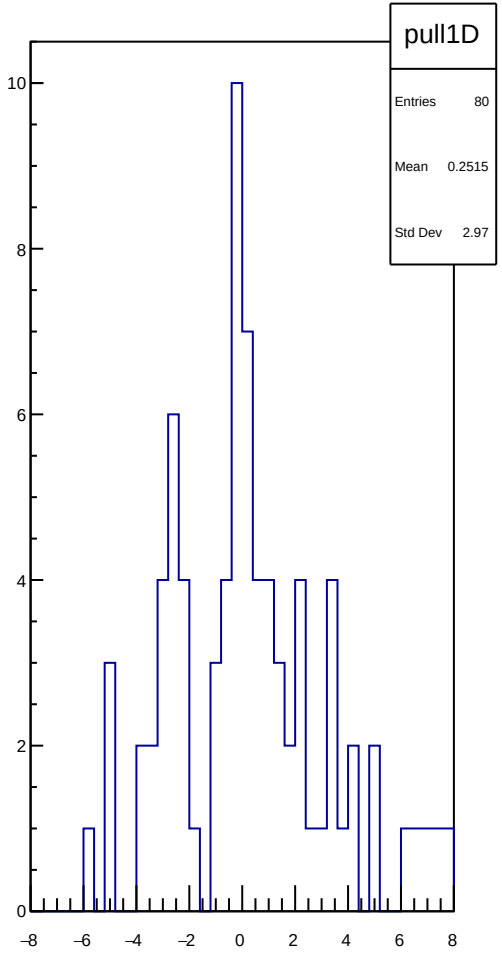

asym_bpm0l01WS_rms vs run
χ² / ndf 4148 / 79
p0 221.7 ± 0.1779
260
250
240
230
220
210
200

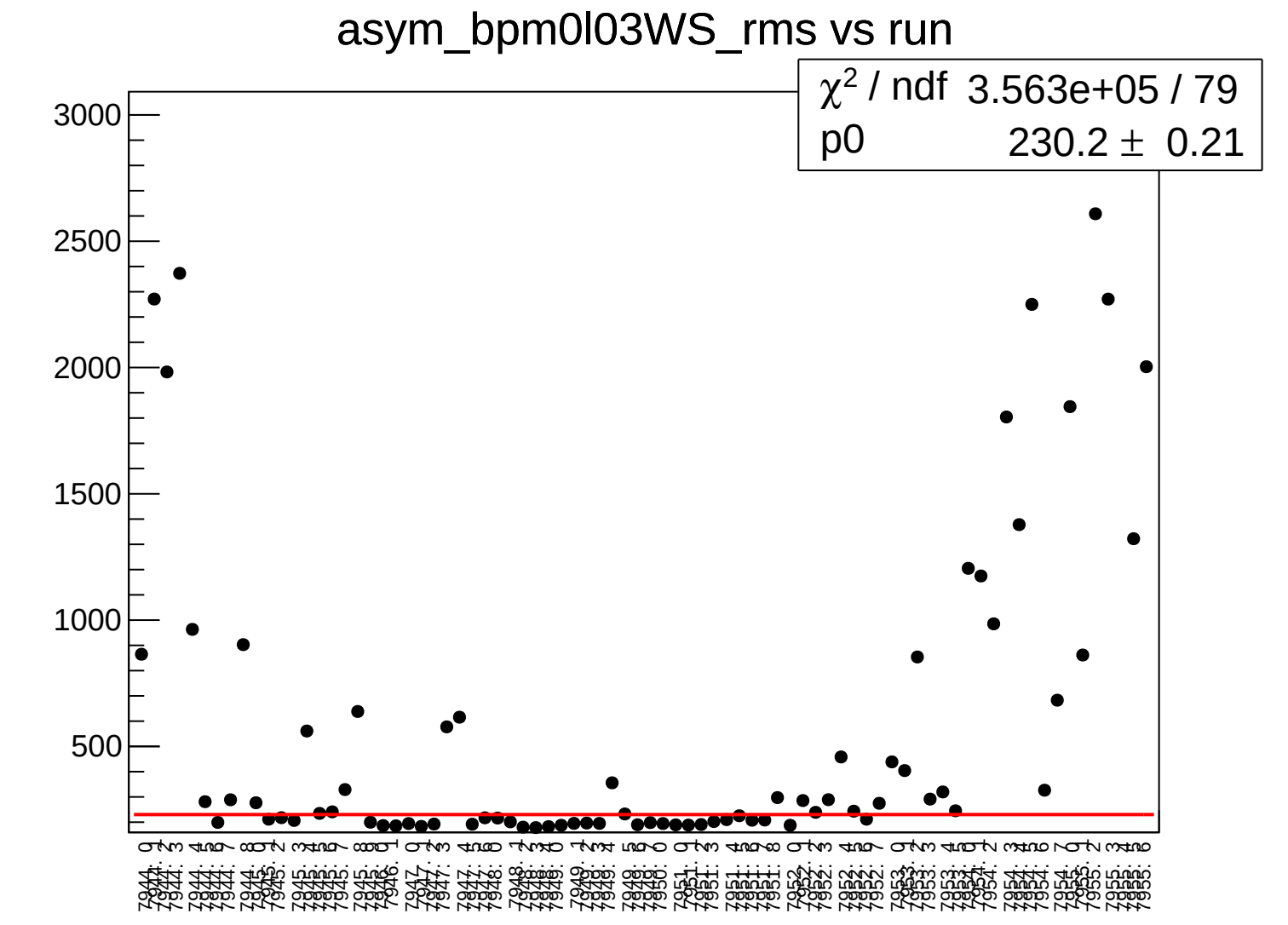

asym_bpm0l02WS_mean vs run
χ² / ndf 802.6 / 79
p0 1041 ± 309.9
pull
Entries 80
Mean 1494
Std Dev 1489

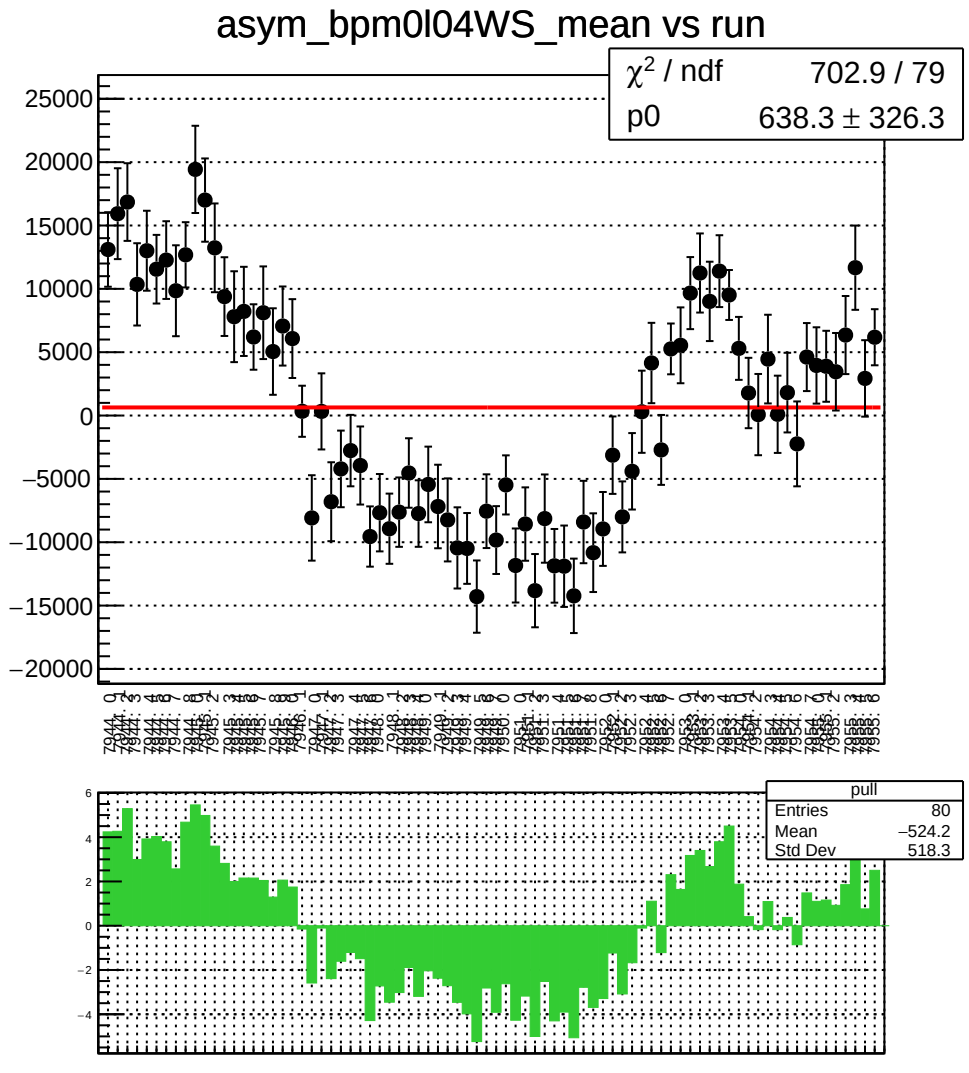

pull1D
Entries 80
Mean −0.01168
Std Dev 3.167

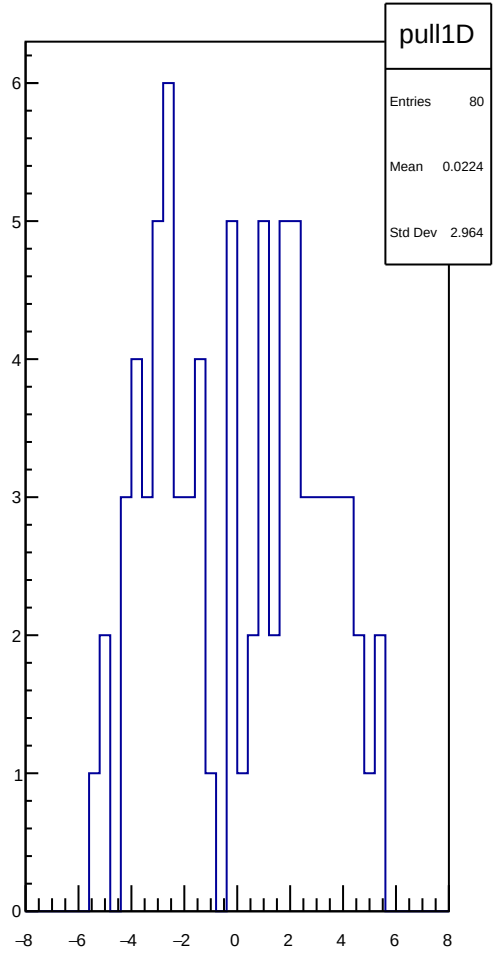

asym_bpm0l02WS_rms vs run
χ² / ndf 3709 / 79
p0 273.2 ± 0.2191
310
300
290
280
270
260
250
240

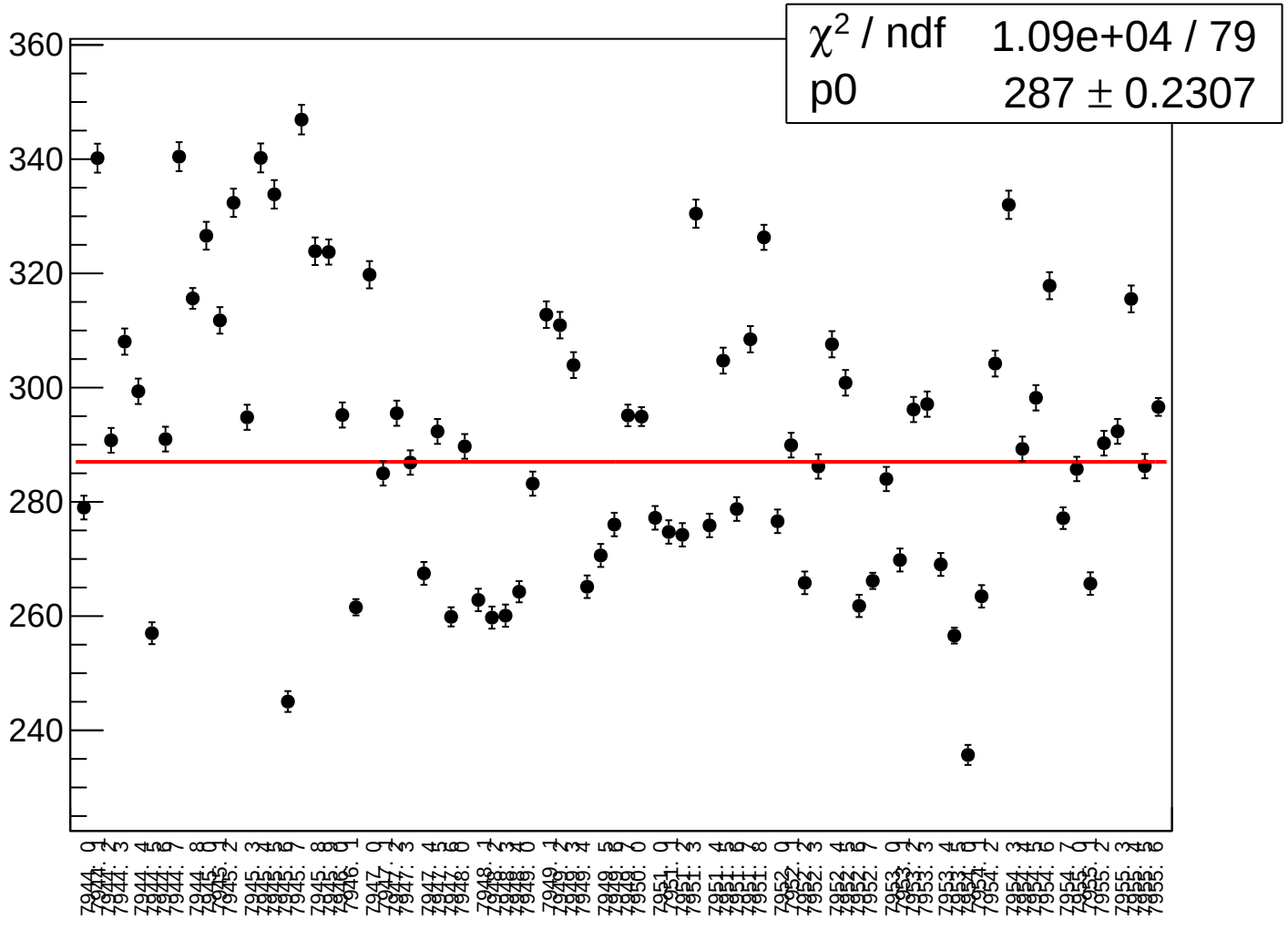

asym_bpm0l03WS_mean vs run
χ² / ndf 710.6 / 79
p0 −2766 ± 297
pull
Entries 80
Mean −31.58
Std Dev 41.04

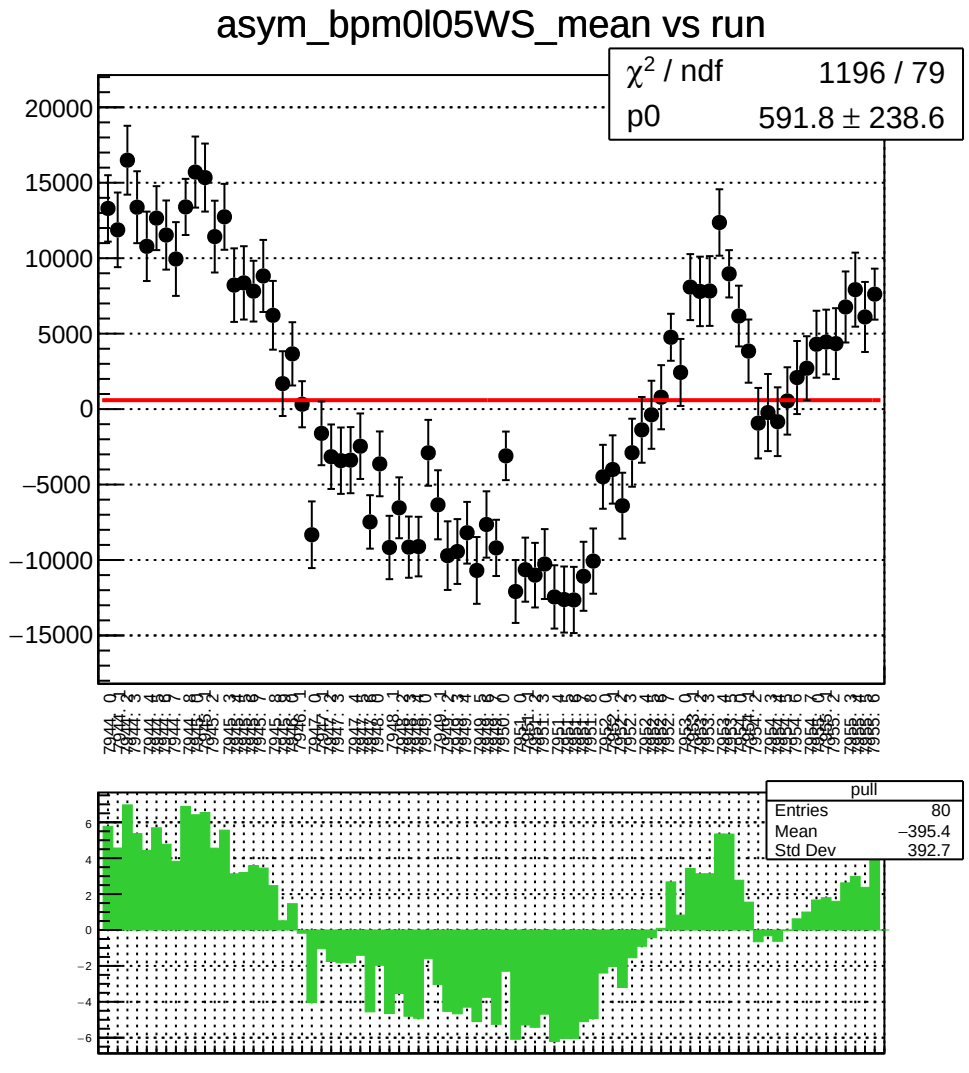

pull1D
Entries 80
Mean 0.2515
Std Dev 2.97

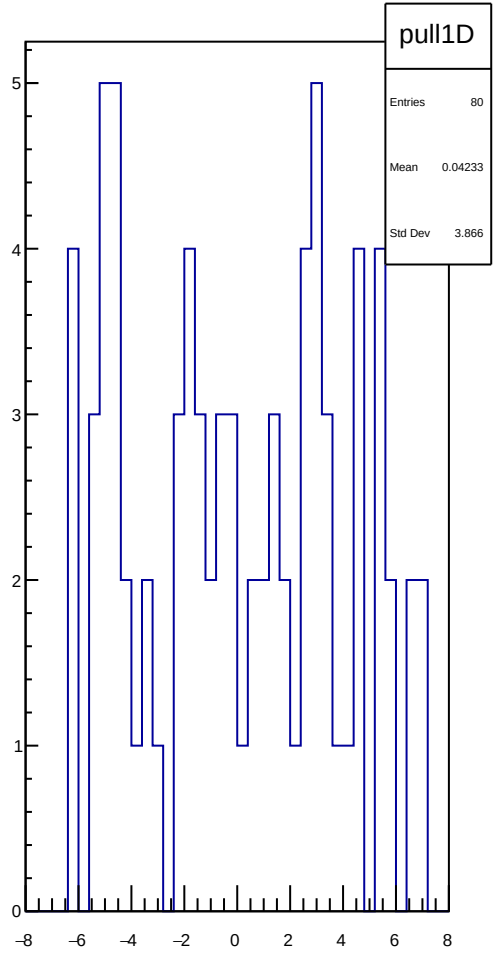

asym_bpm0l03WS_rms vs run
χ² / ndf 3.563e+05 / 79
p0 230.2 ± 0.21
3000
2500
2000
1500
1000
500

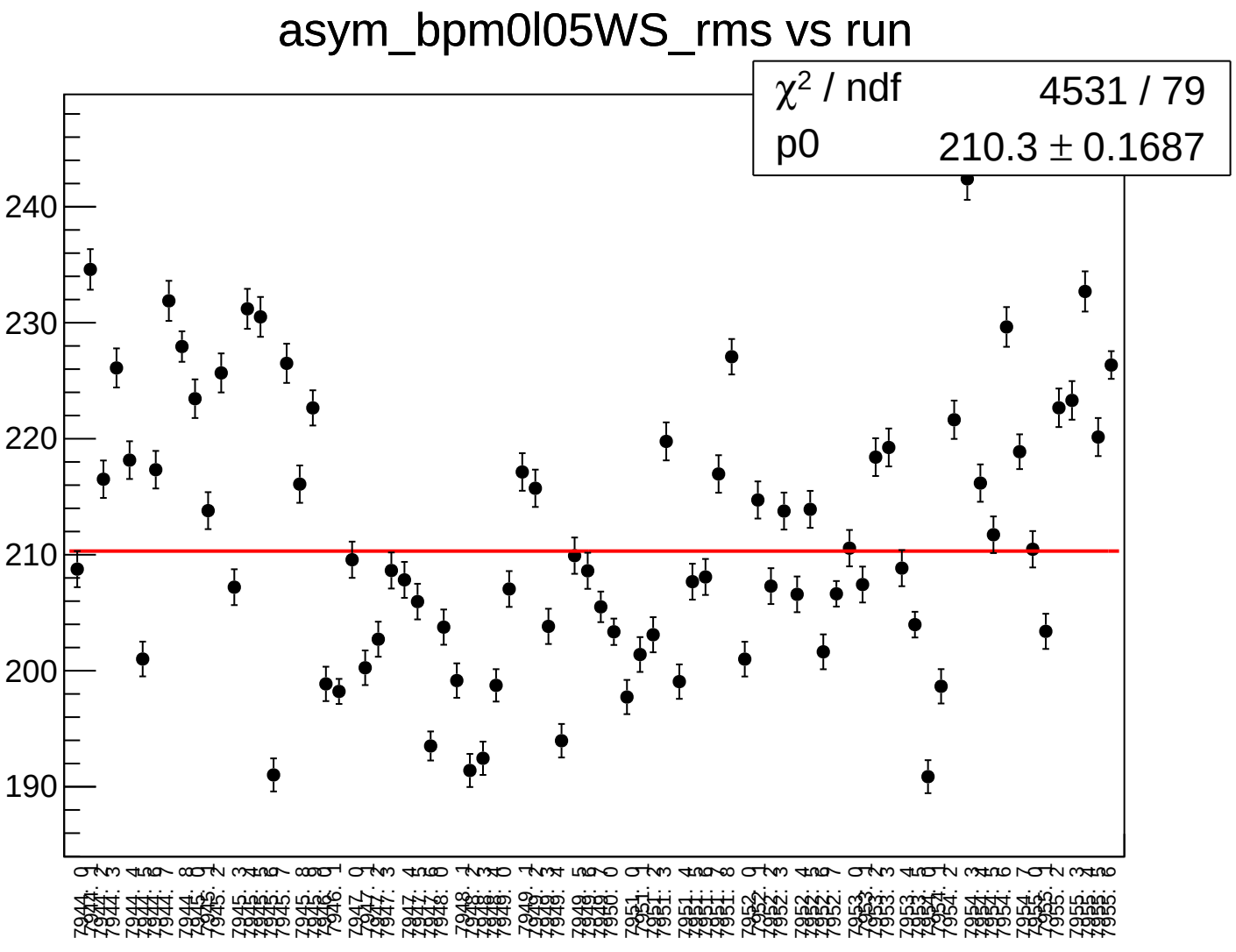

asym_bpm0l04WS_mean vs run
χ² / ndf 702.9 / 79
p0 638.3 ± 326.3
pull
Entries 80
Mean −524.2
Std Dev 518.3

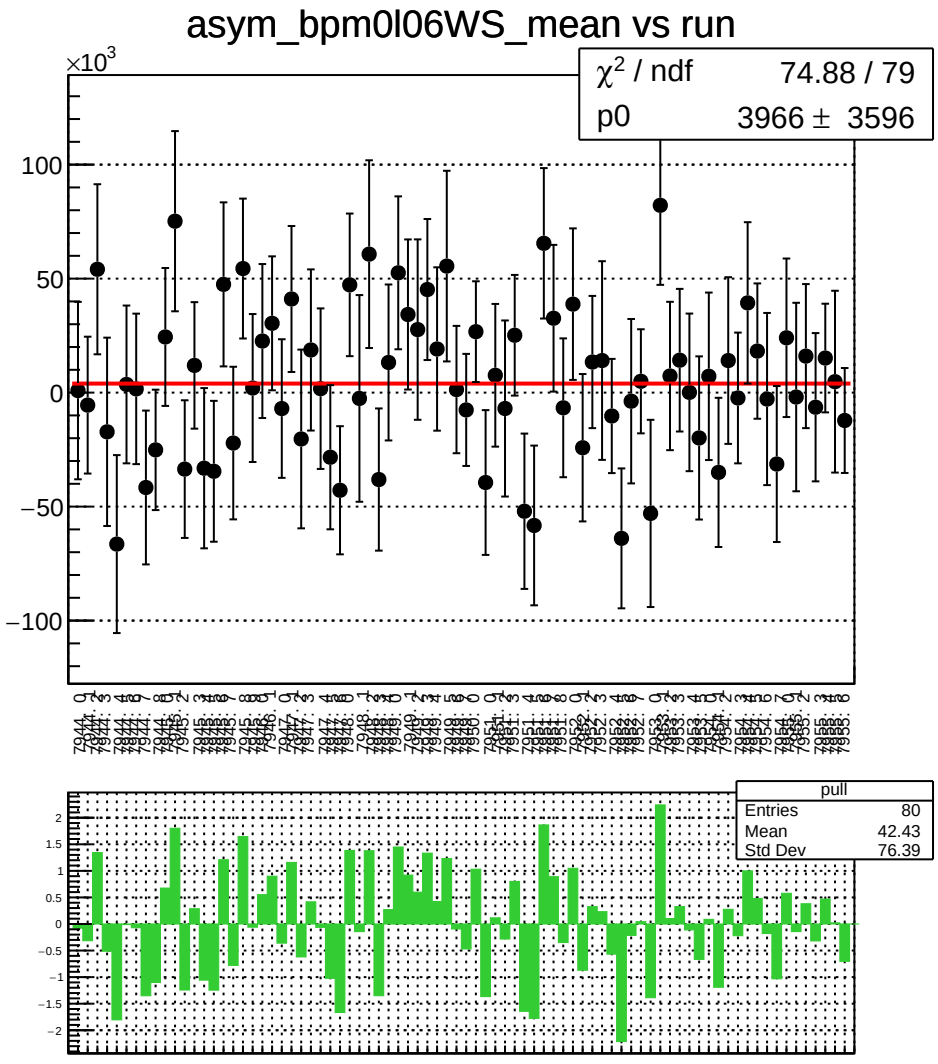

pull1D
Entries 80
Mean 0.0224
Std Dev 2.964

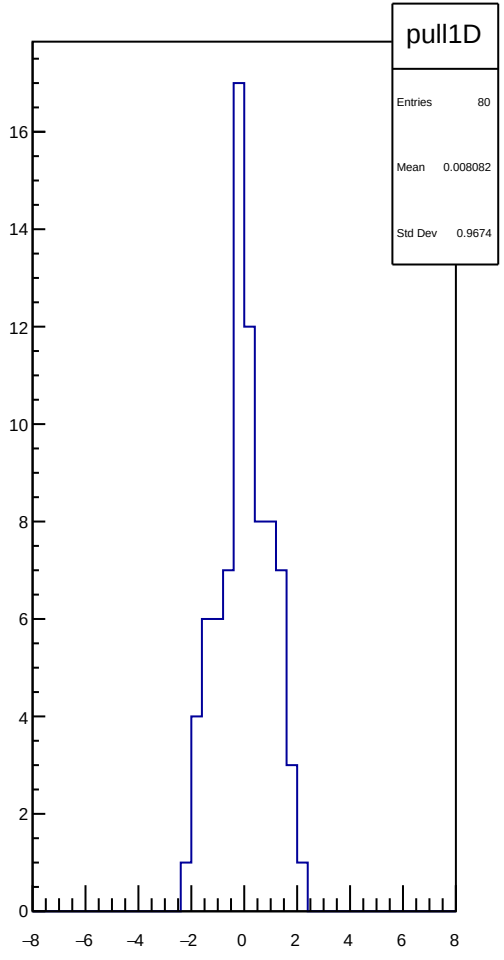

asym_bpm0l04WS_rms vs run
χ² / ndf 1.09e+04 / 79
p0 287 ± 0.2307
360
340
320
300
280
260
240

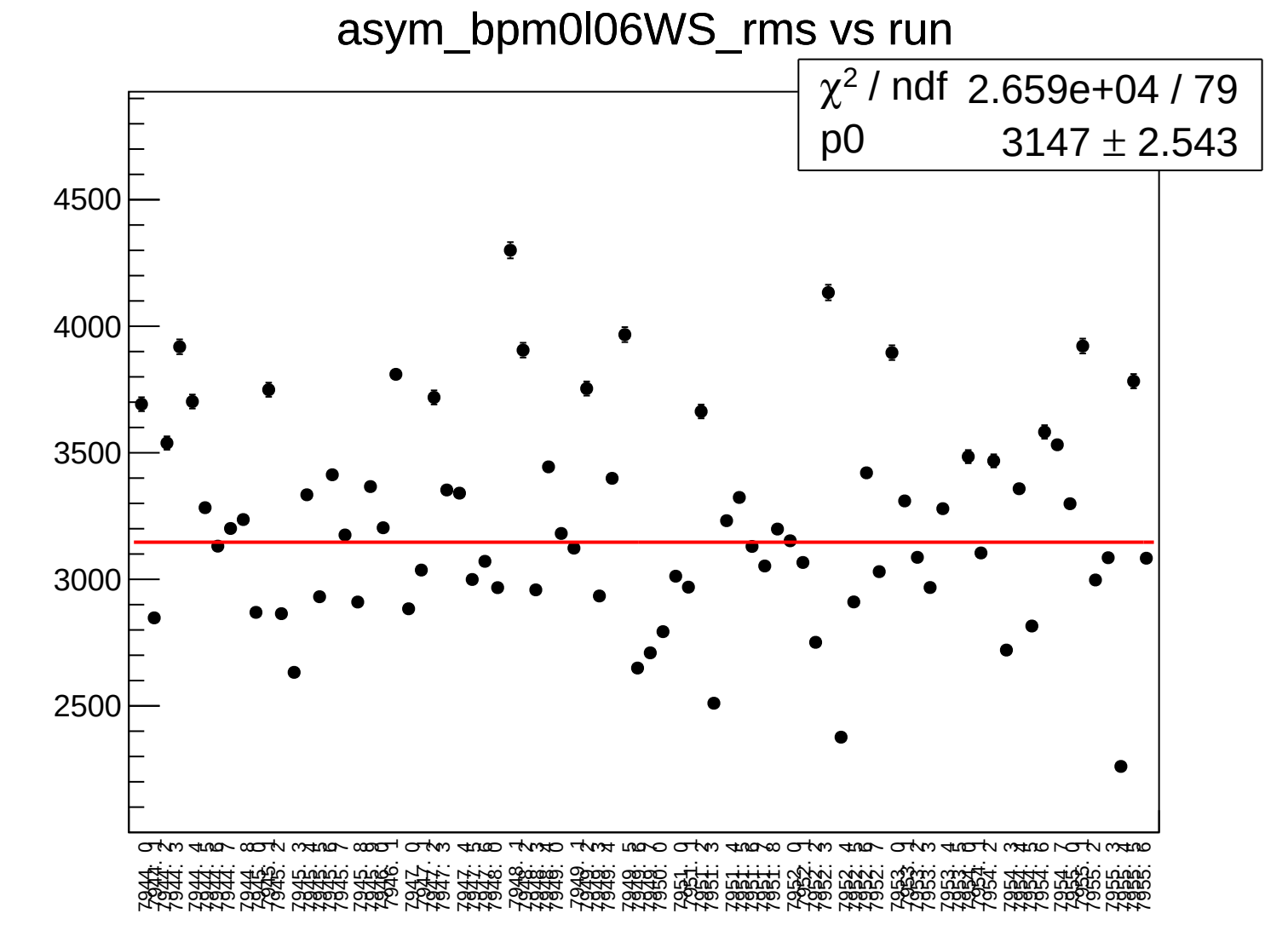

asym_bpm0l05WS_mean vs run
χ² / ndf 1196 / 79
p0 591.8 ± 238.6
pull
Entries 80
Mean −395.4
Std Dev 392.7

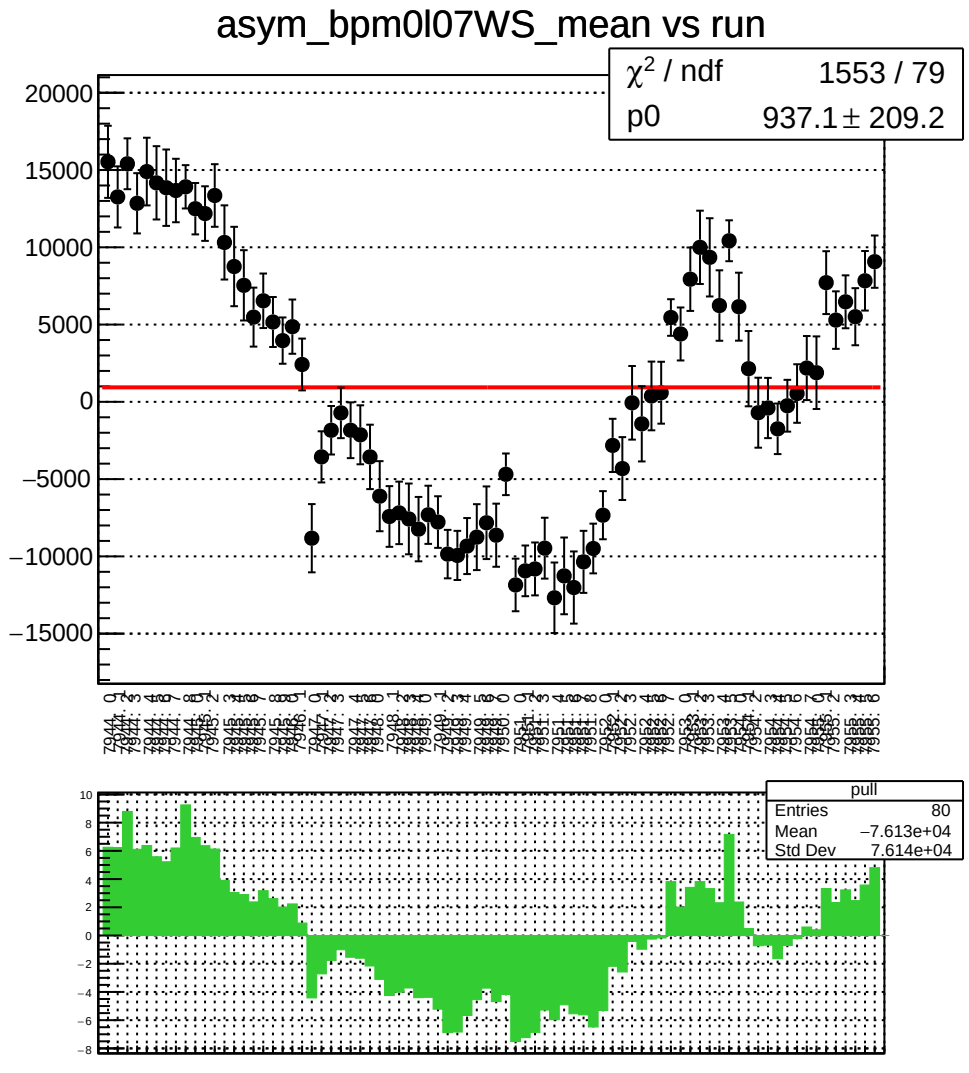

pull1D
Entries 80
Mean 0.04233
Std Dev 3.866

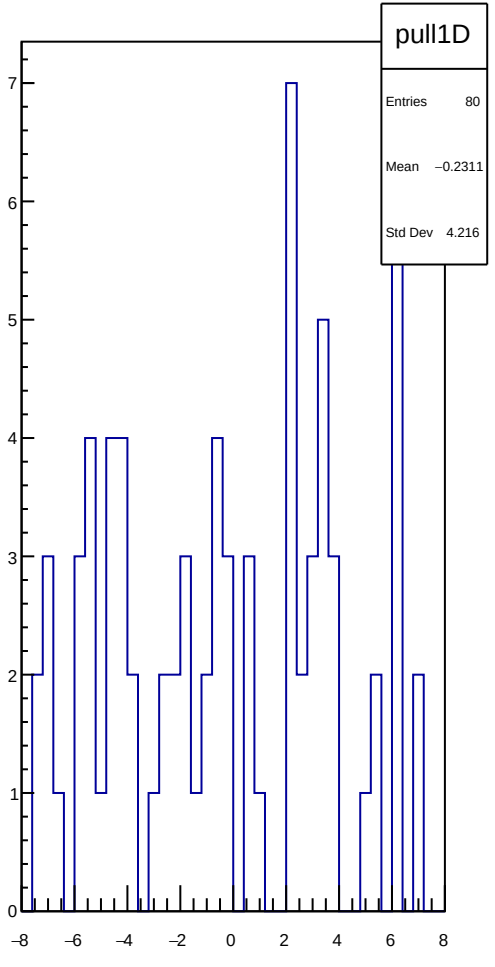

asym_bpm0l05WS_rms vs run
χ² / ndf 4531 / 79
p0 210.3 ± 0.1687
240
230
220
210
200
190

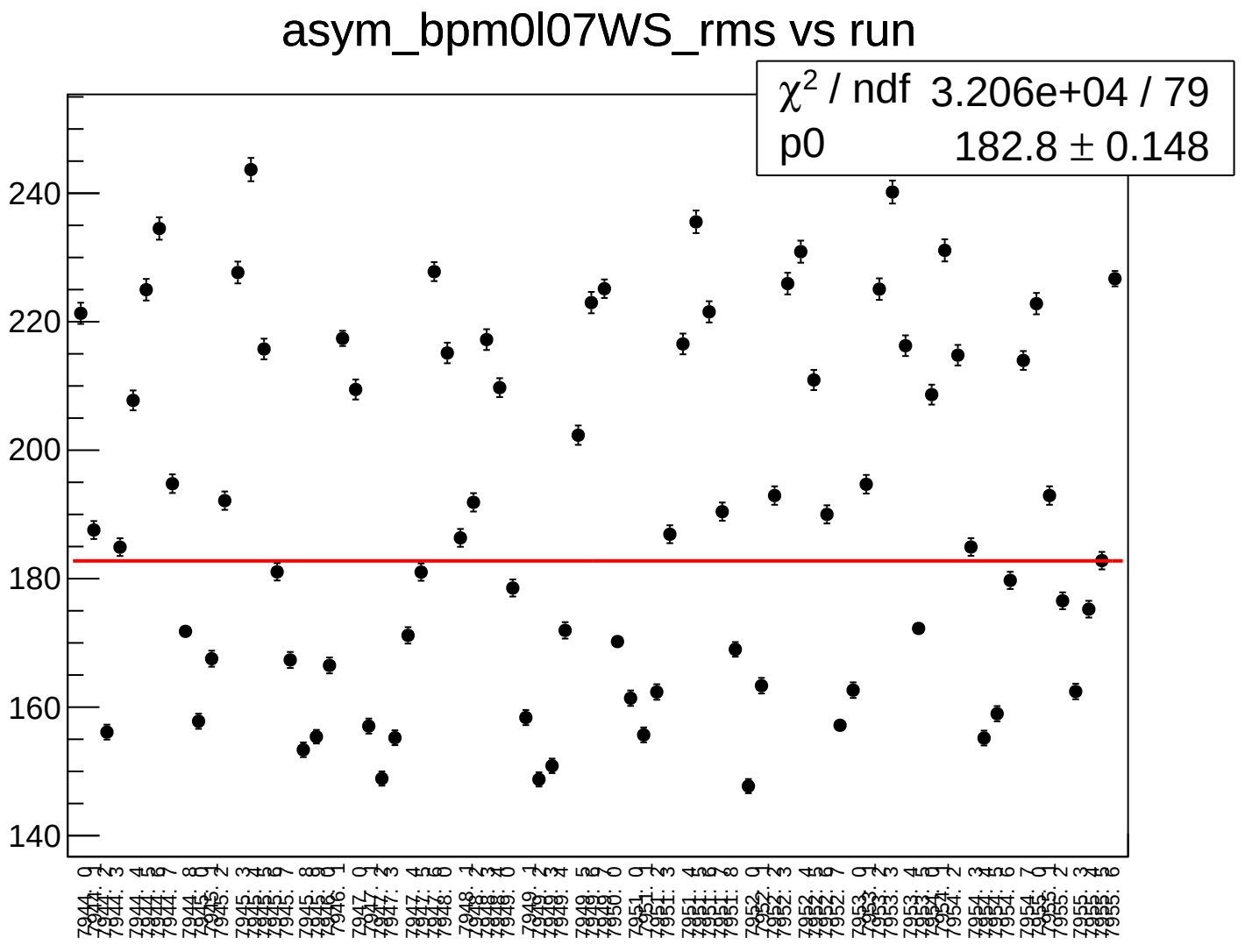

asym_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 74.88 / 79
p0 3966 ± 3596
100
50
0
−50
−100
pull
Entries 80
Mean 42.43
Std Dev 76.39
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

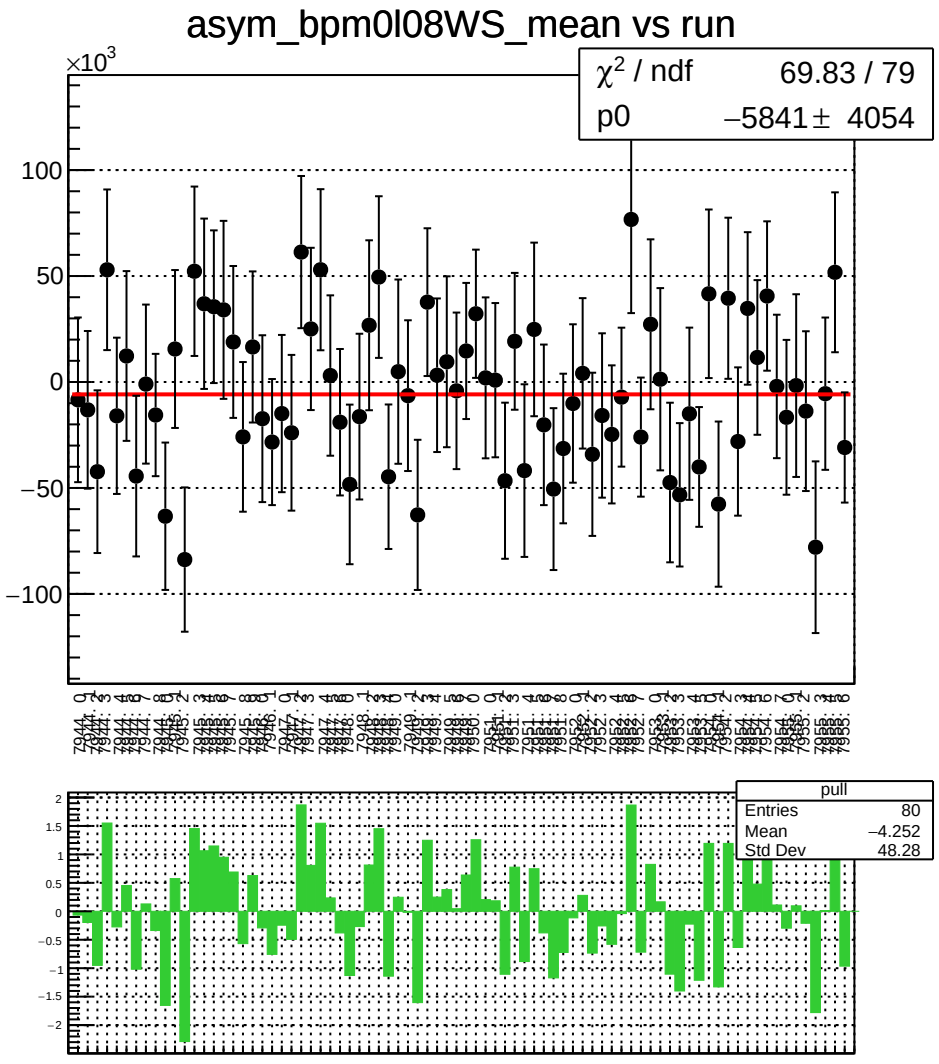

pull1D
Entries 80
Mean 0.008082
Std Dev 0.9674
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

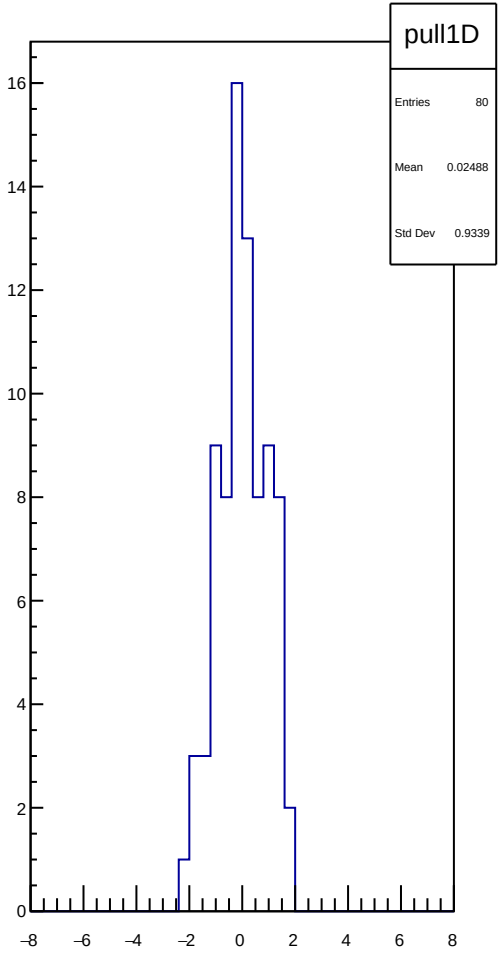

asym_bpm0l06WS_rms vs run
χ² / ndf 2.659e+04 / 79
p0 3147 ± 2.543
4500
4000
3500
3000
2500

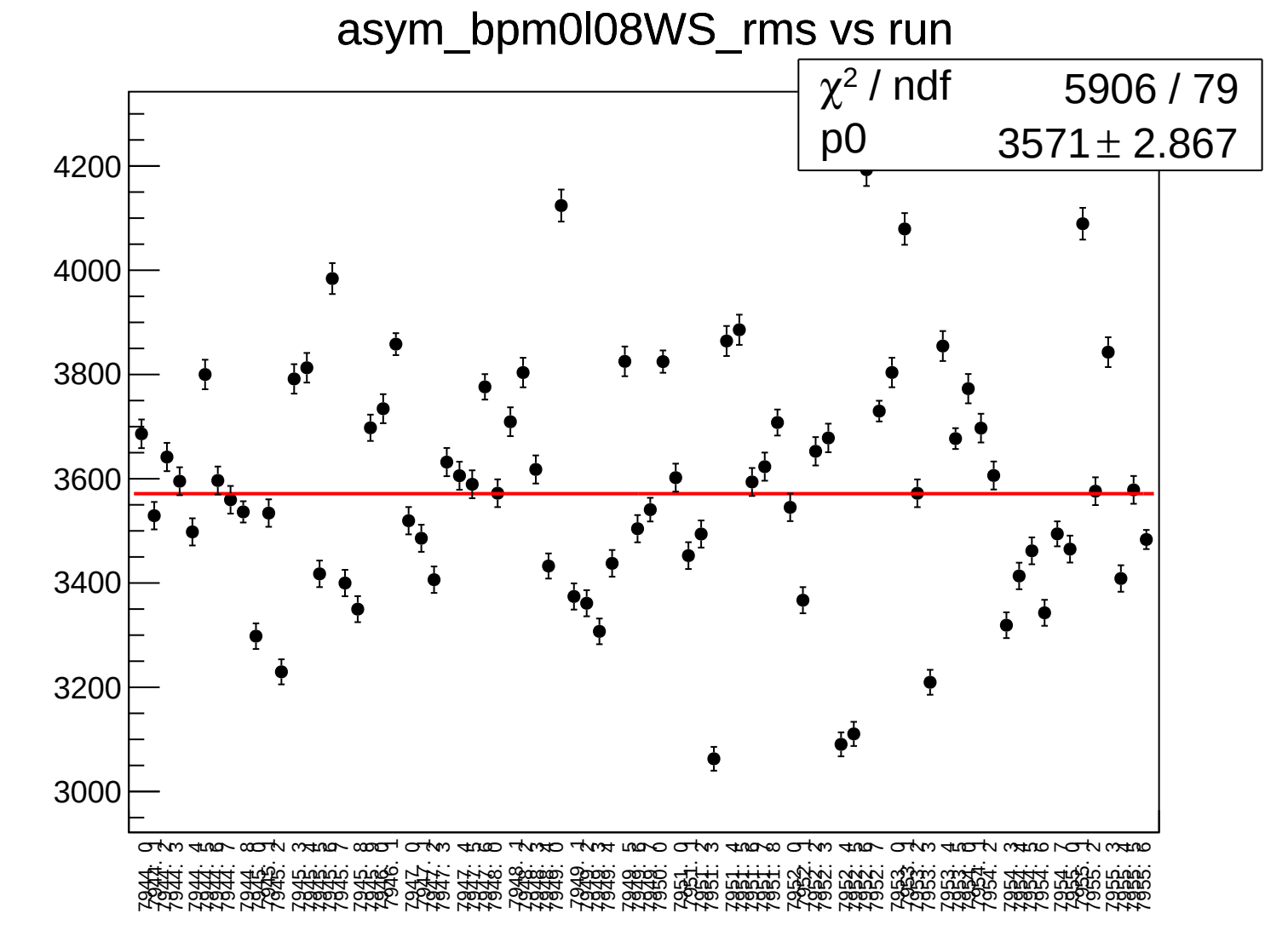

asym_bpm0l07WS_mean vs run
χ² / ndf 1553 / 79
p0 937.1 ± 209.2
pull
Entries 80
Mean −7.613e+04
Std Dev 7.614e+04

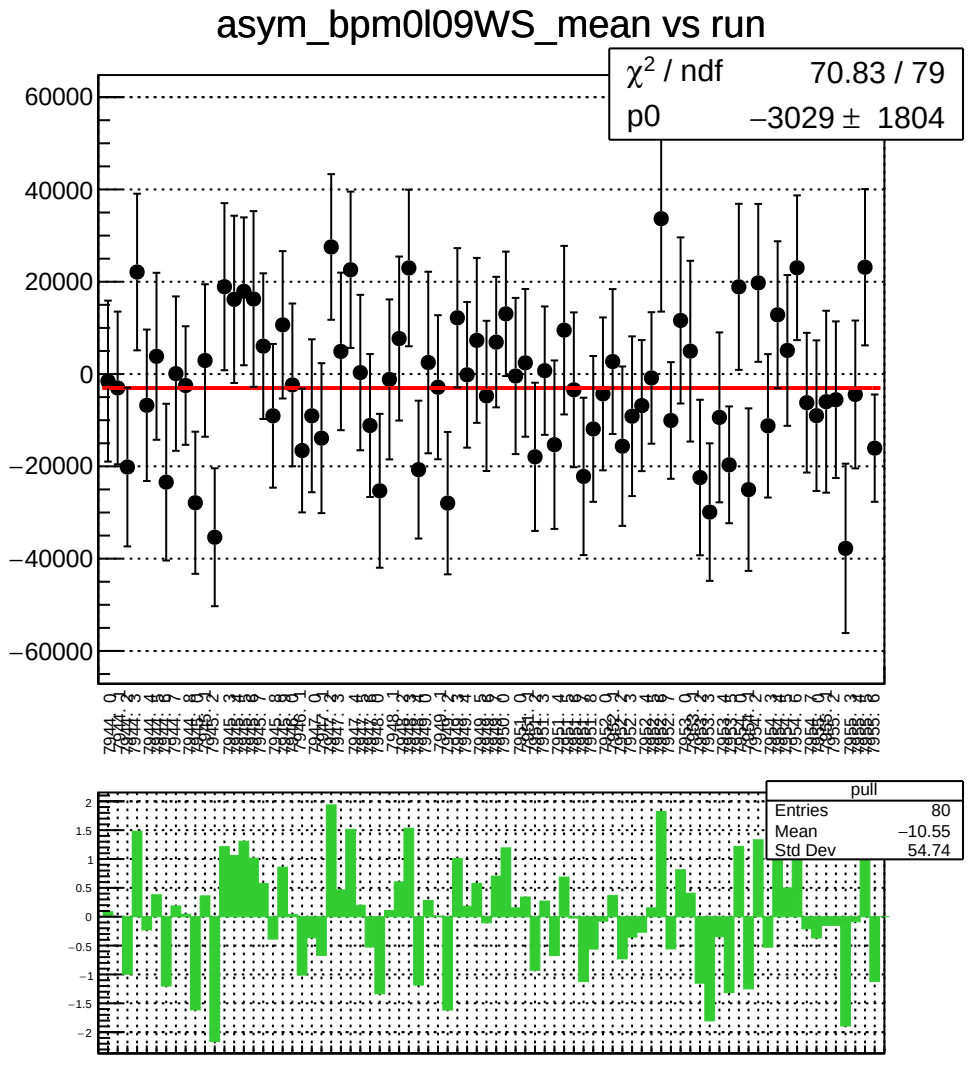

pull1D
Entries 80
Mean −0.2311
Std Dev 4.216

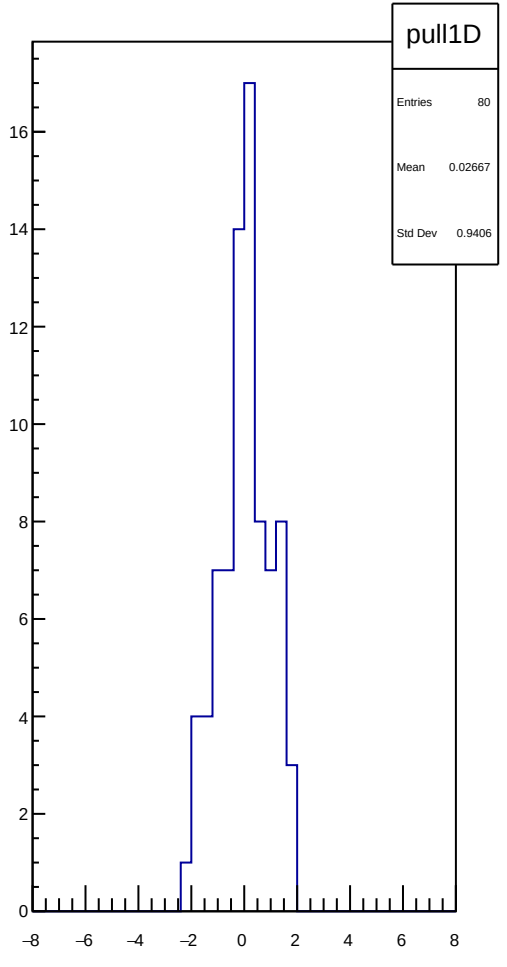

asym_bpm0l07WS_rms vs run
χ² / ndf 3.206e+04 / 79
p0 182.8 ± 0.148
240
220
200
180
160
140

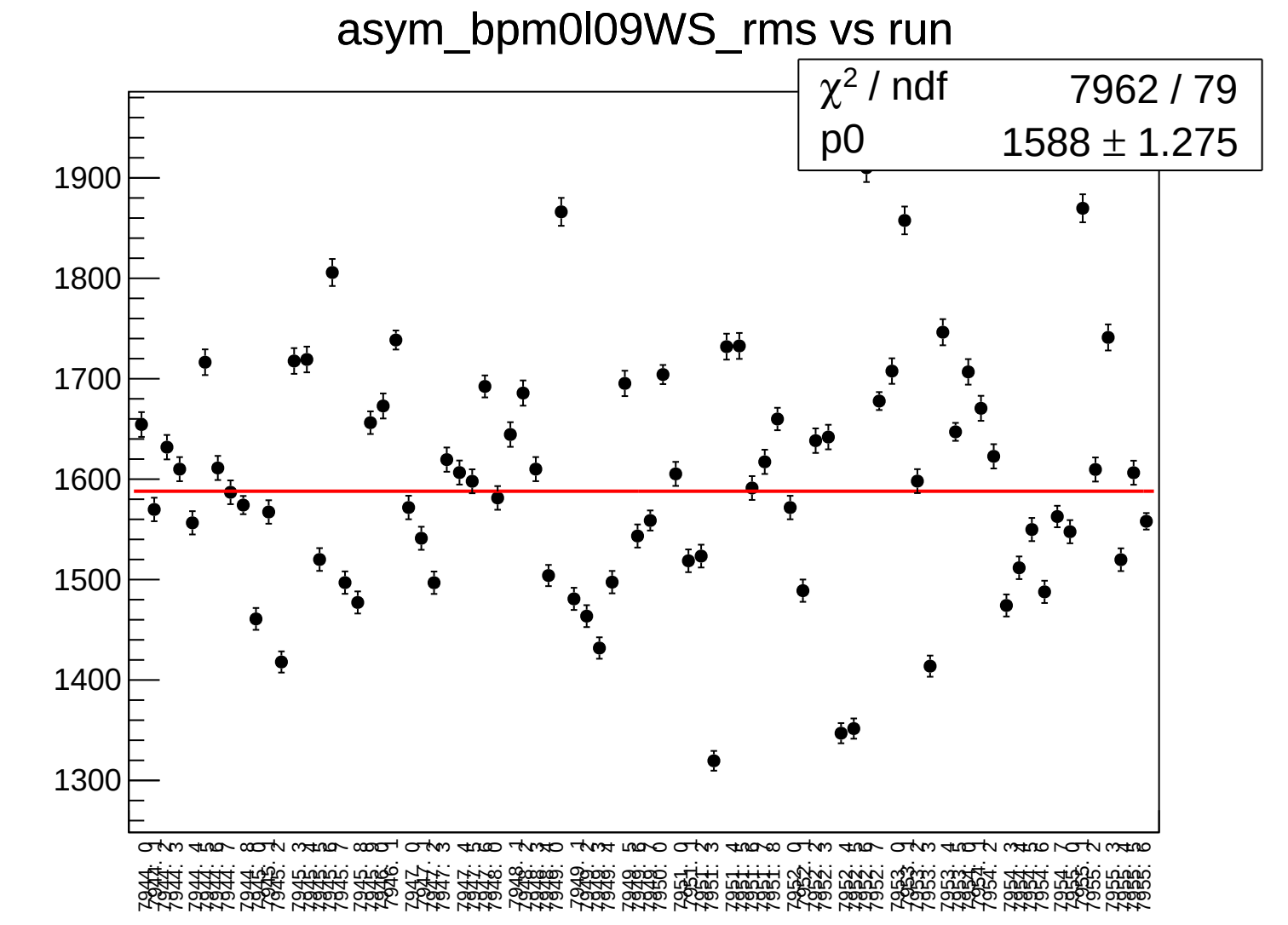

asym_bpm0l08WS_mean vs run
χ^2 / ndf 69.83 / 79
p0 −5841 ± 4054
pull
Entries 80
Mean −4.252
Std Dev 48.28

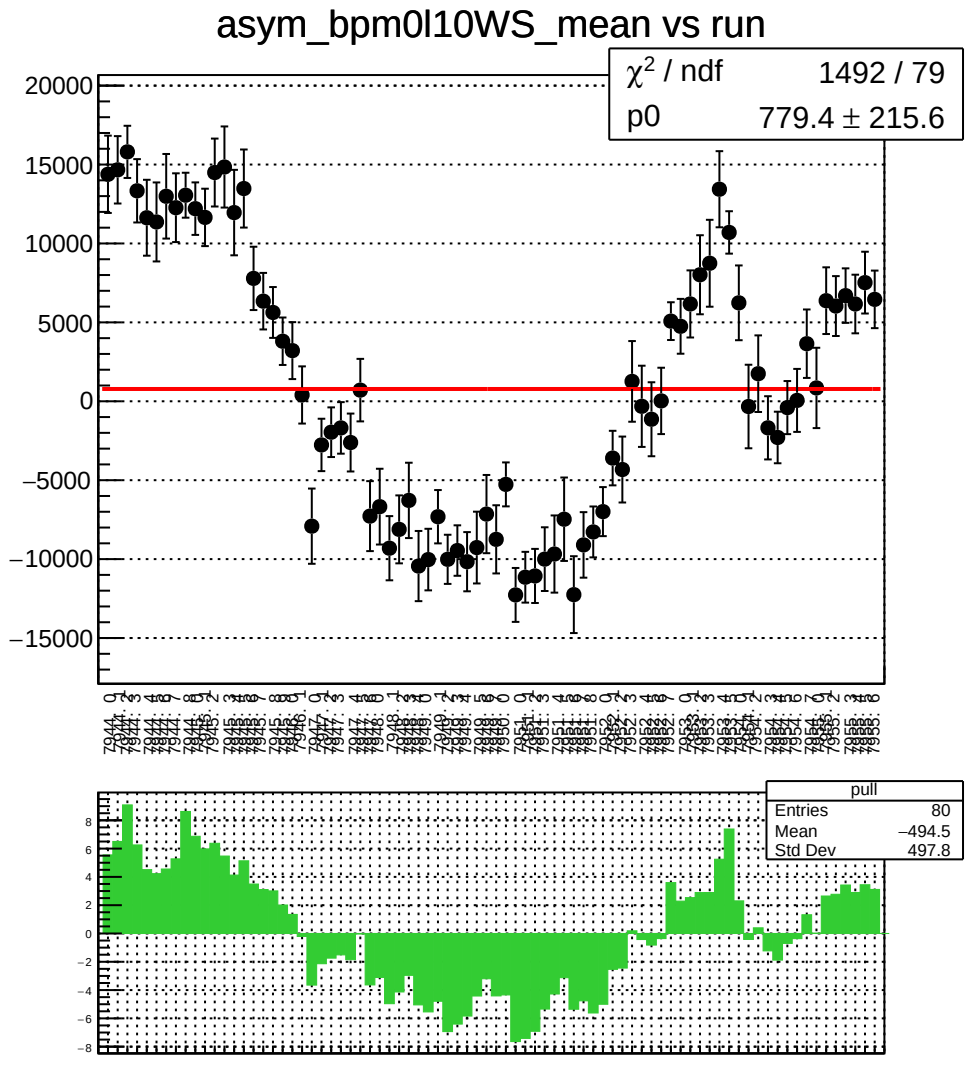

pull1D
Entries 80
Mean 0.02488
Std Dev 0.9339

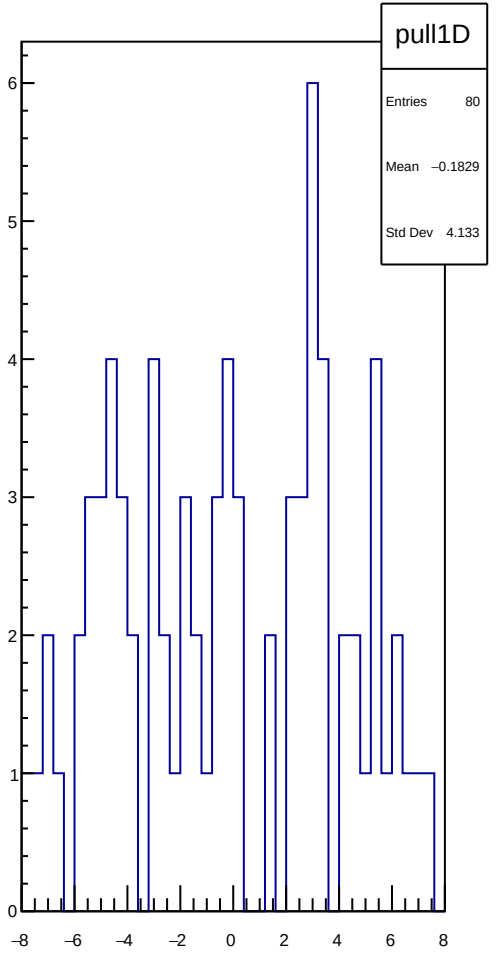

asym_bpm0l08WS_rms vs run
χ² / ndf 5906 / 79
p0 3571 ± 2.867
4200
4000
3800
3600
3400
3200
3000

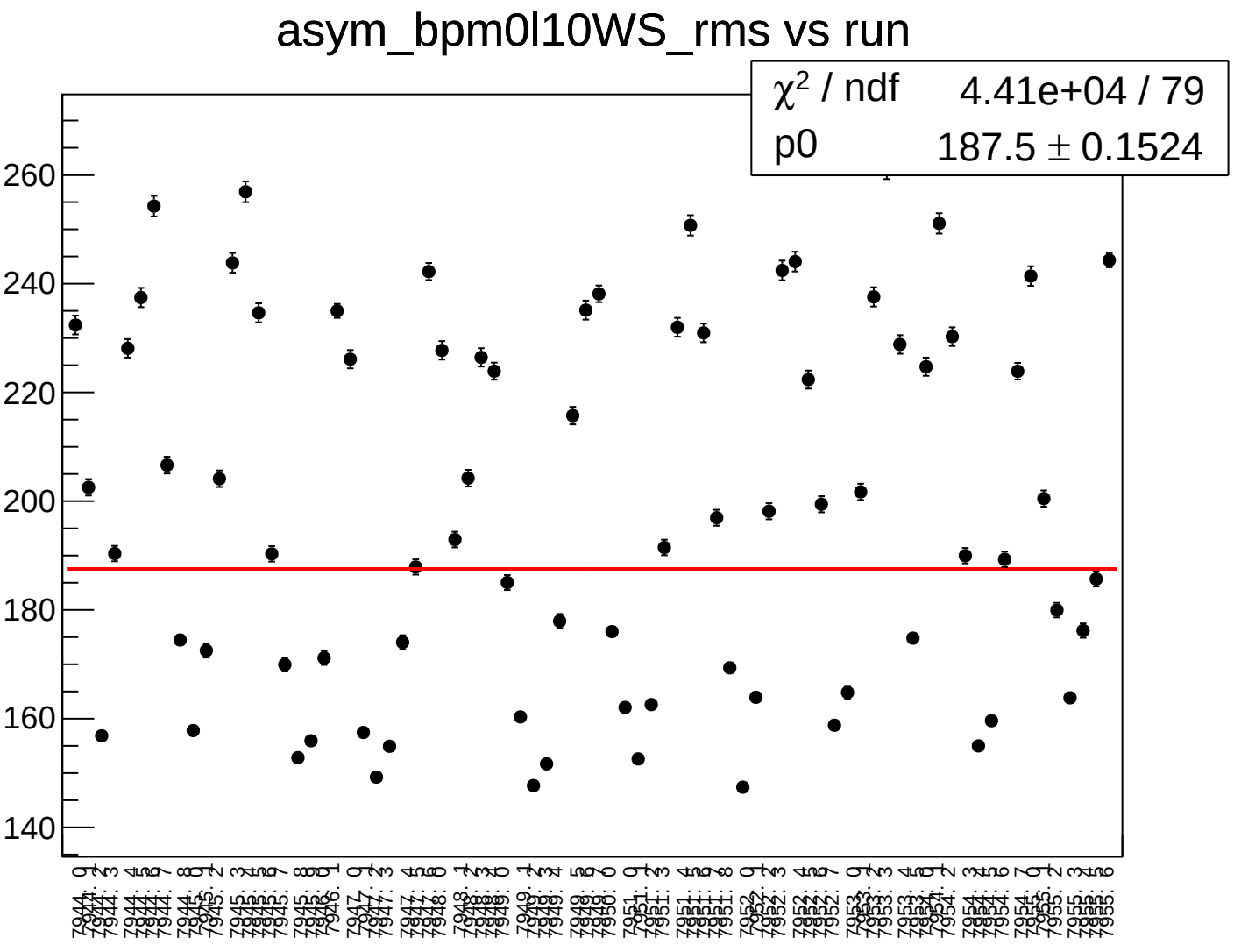

asym_bpm0l09WS_mean vs run
χ² / ndf 70.83 / 79
p0 −3029 ± 1804
60000
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean −10.55
Std Dev 54.74
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

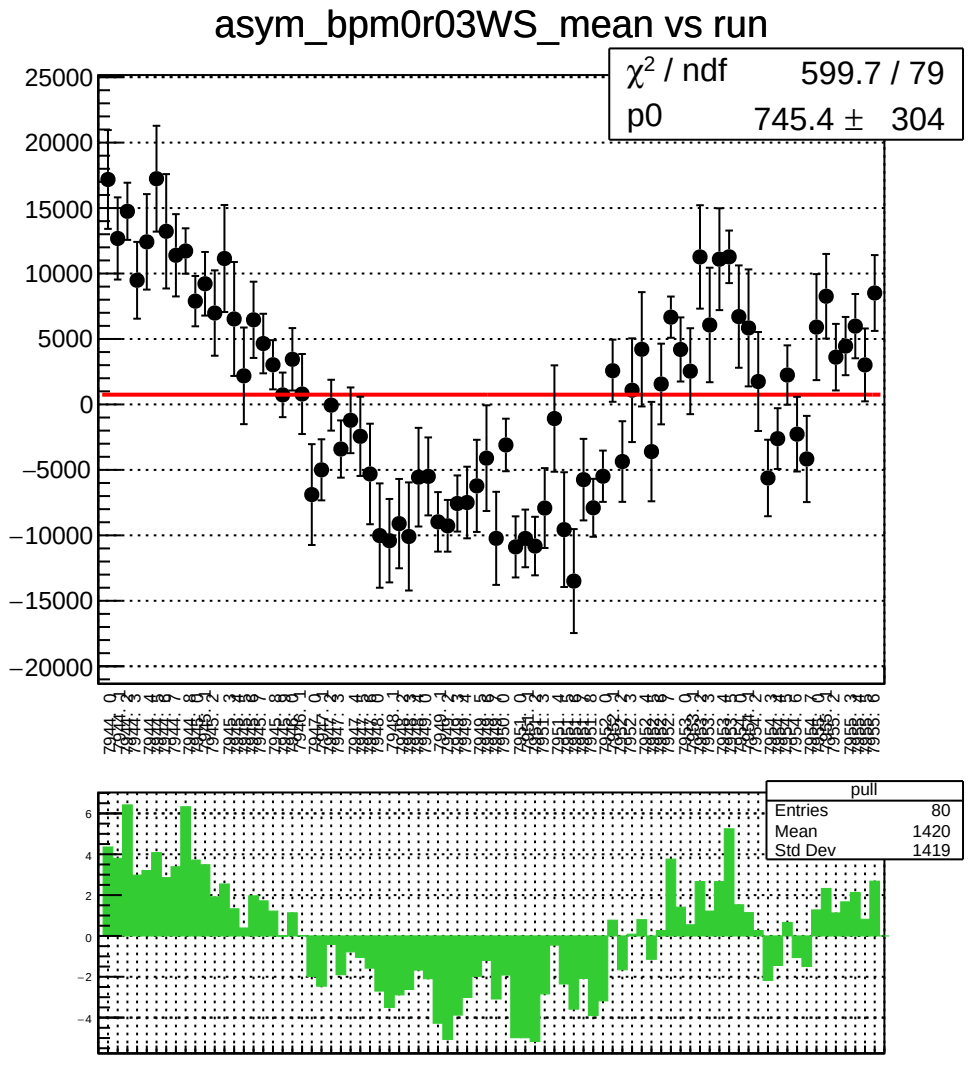

pull1D
Entries 80
Mean 0.02667
Std Dev 0.9406
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

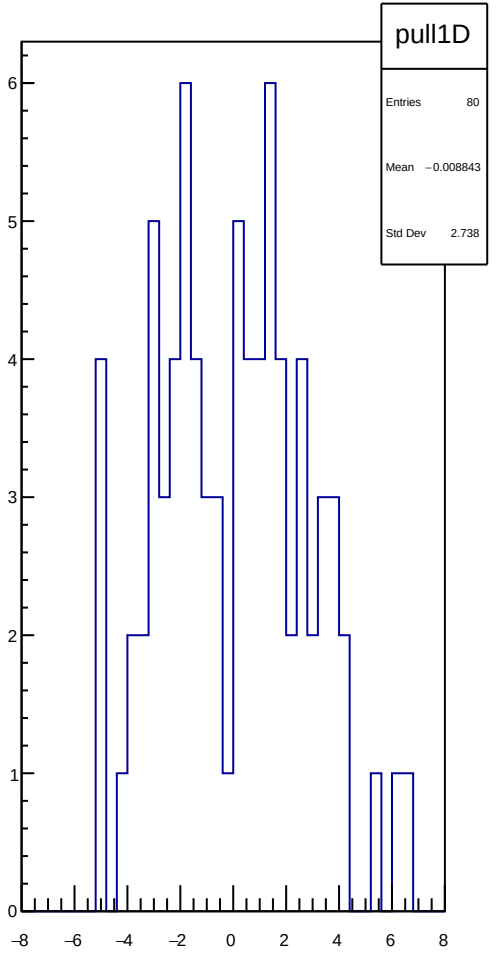

asym_bpm0l09WS_rms vs run
χ^2 / ndf 7962 / 79
p0 1588 ± 1.275
1900
1800
1700
1600
1500
1400
1300

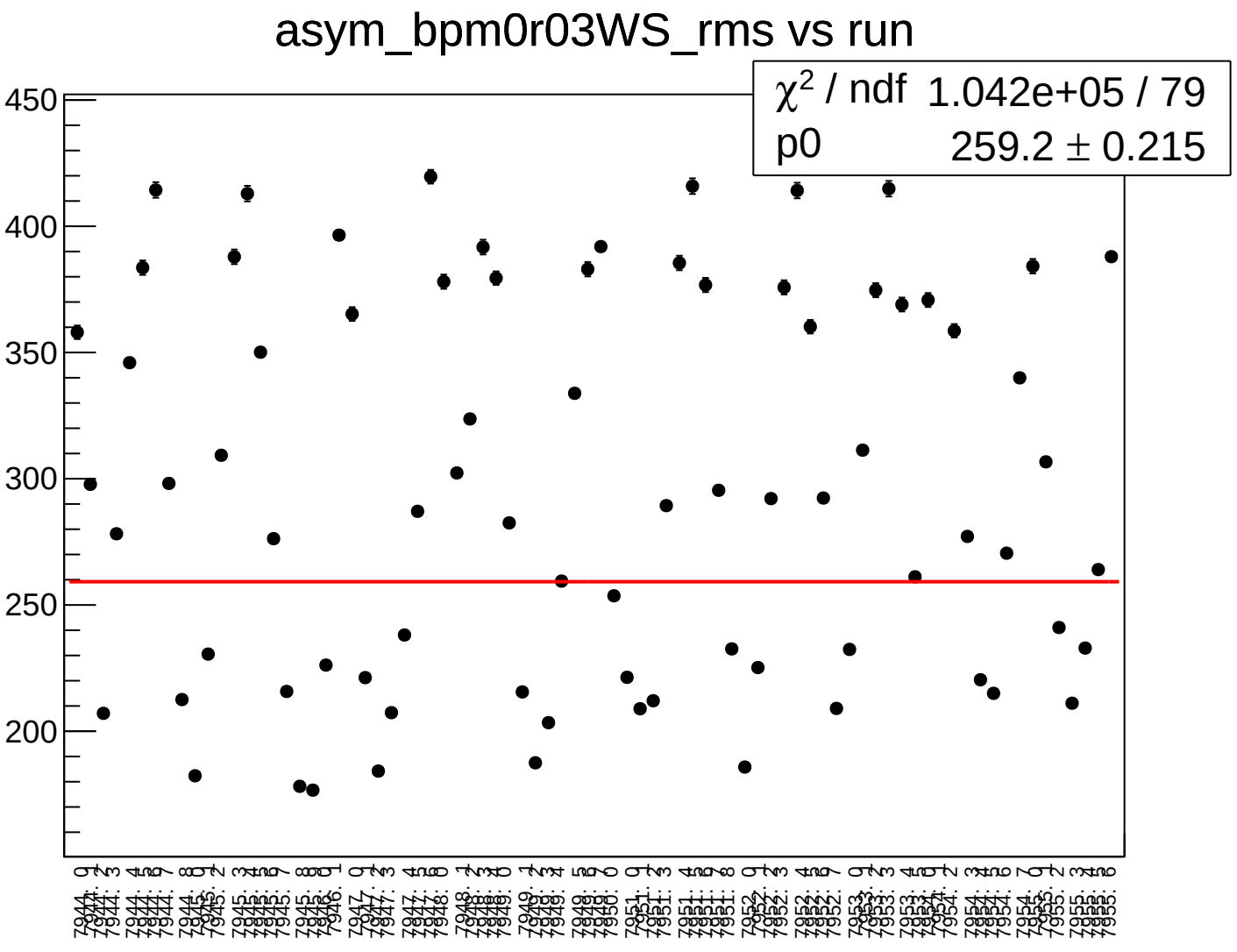

asym_bpm0l10WS_mean vs run
χ² / ndf 1492 / 79
p0 779.4 ± 215.6
pull
Entries 80
Mean −494.5
Std Dev 497.8

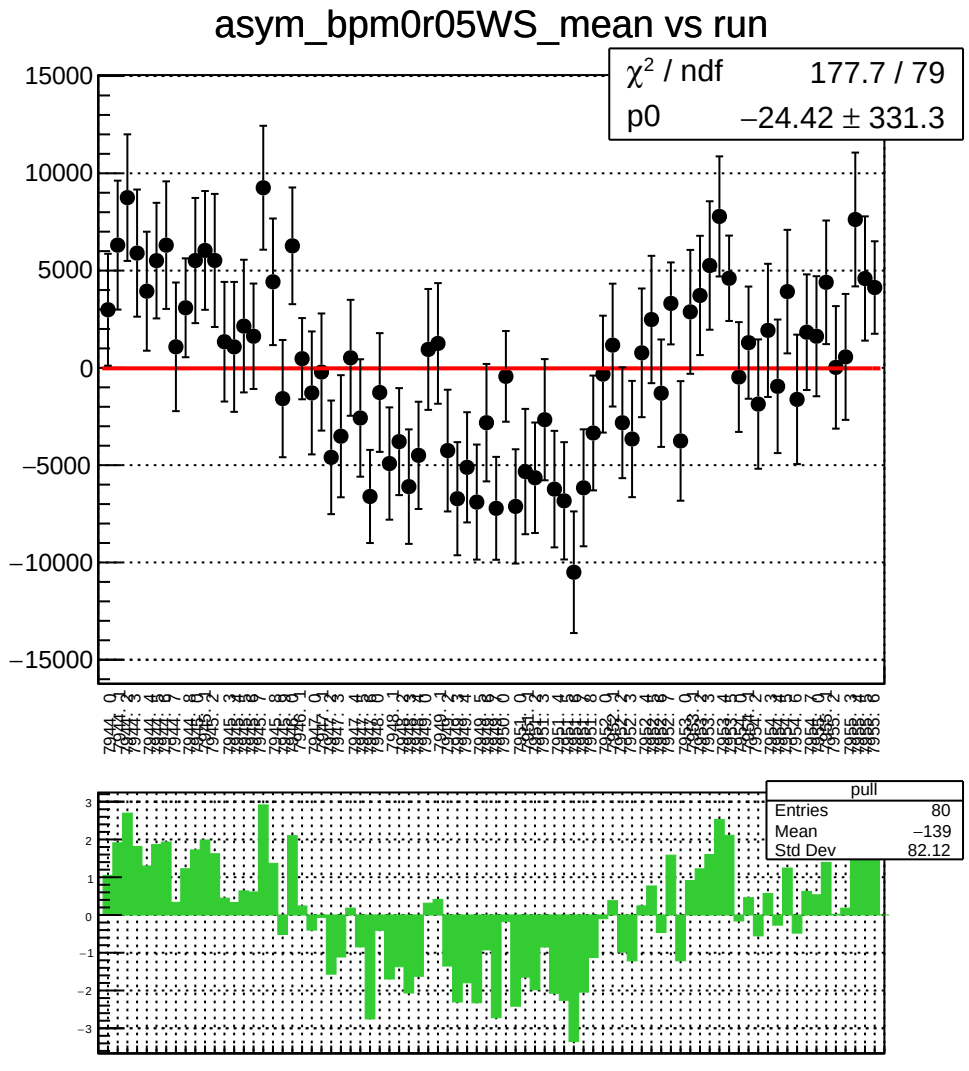

pull1D
Entries 80
Mean −0.1829
Std Dev 4.133

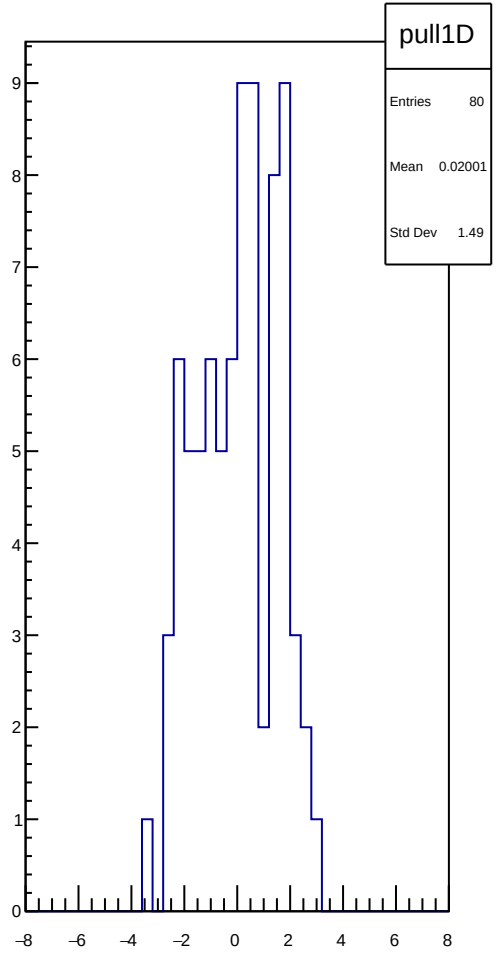

asym_bpm0l10WS_rms vs run
χ² / ndf 4.41e+04 / 79
p0 187.5 ± 0.1524
260
240
220
200
180
160
140

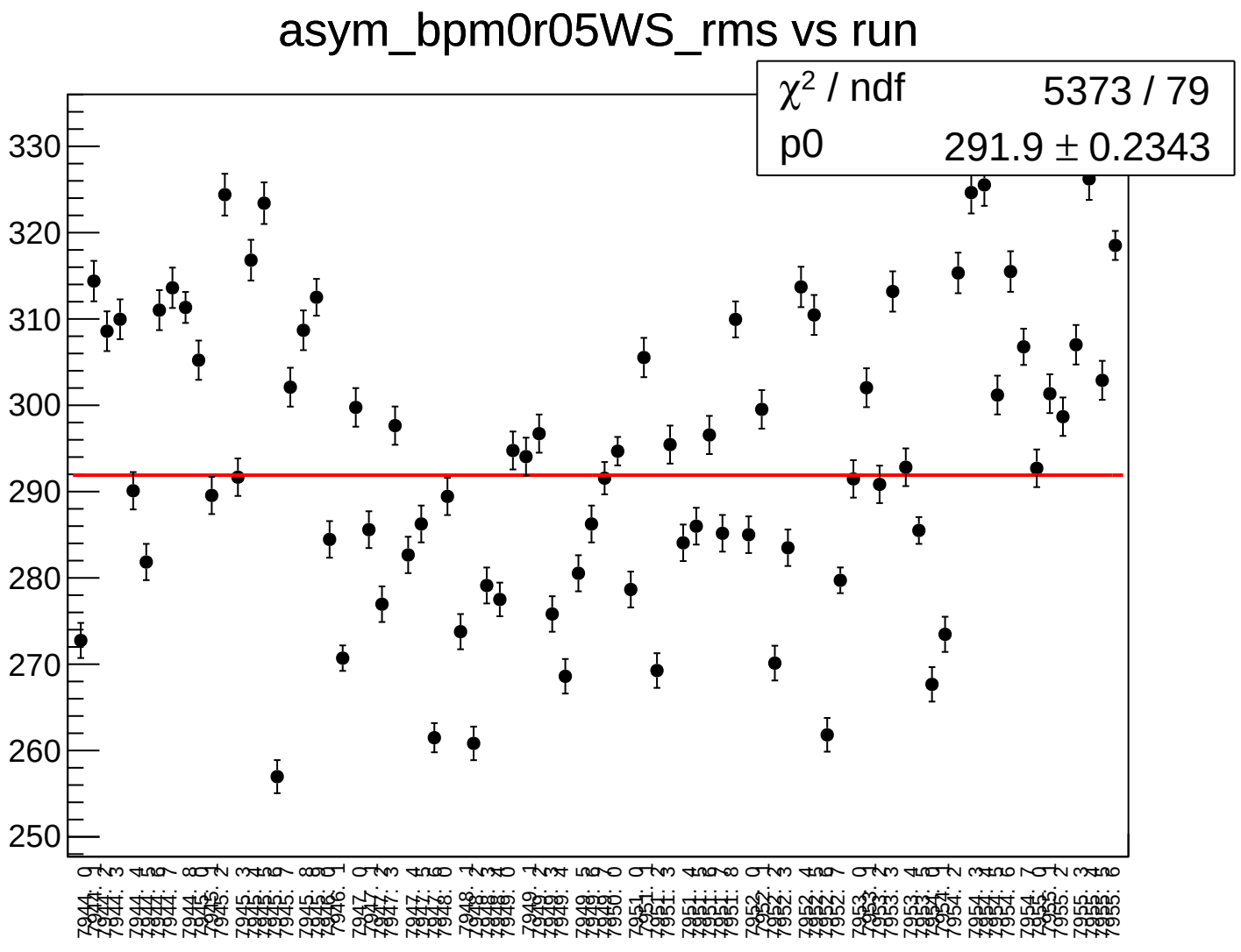

asym_bpm0r03WS_mean vs run
χ² / ndf 599.7 / 79
p0 745.4 ± 304
pull
Entries 80
Mean 1420
Std Dev 1419

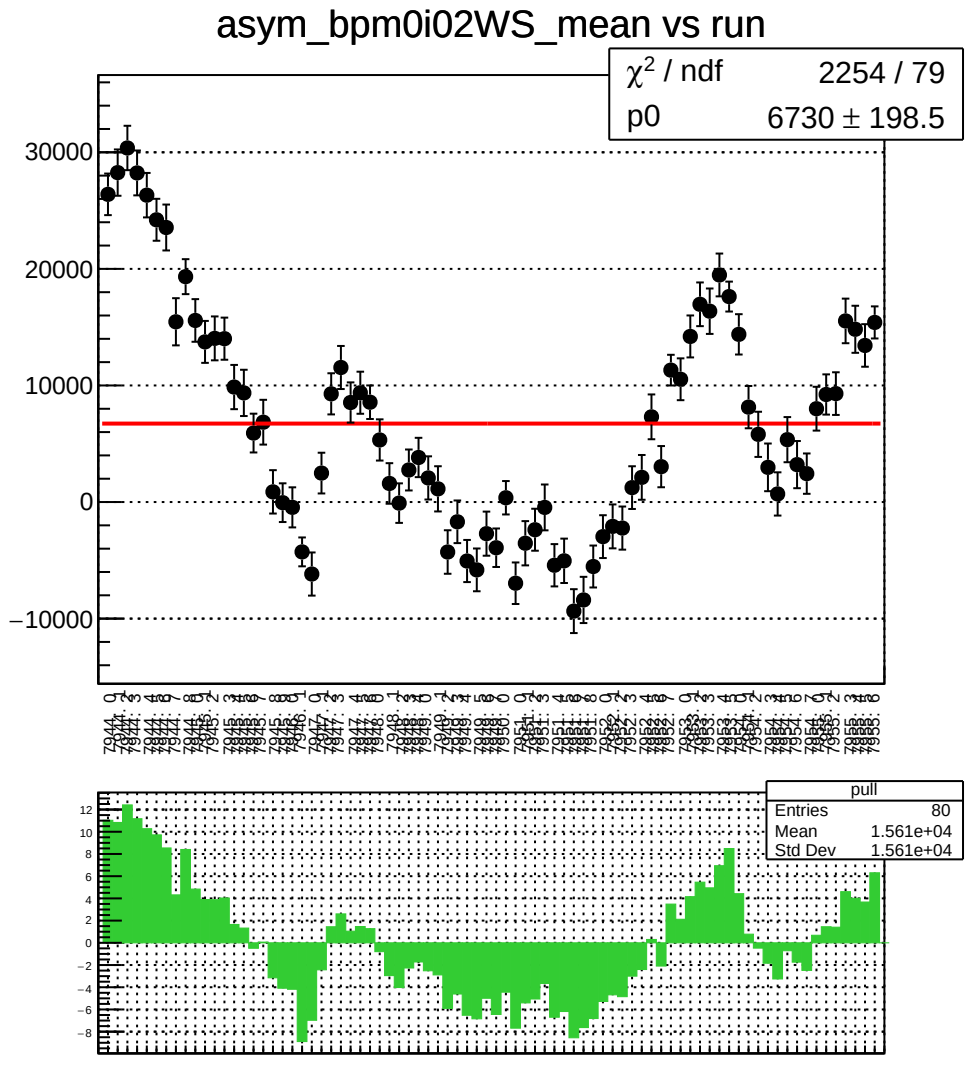

pull1D
Entries 80
Mean −0.008843
Std Dev 2.738

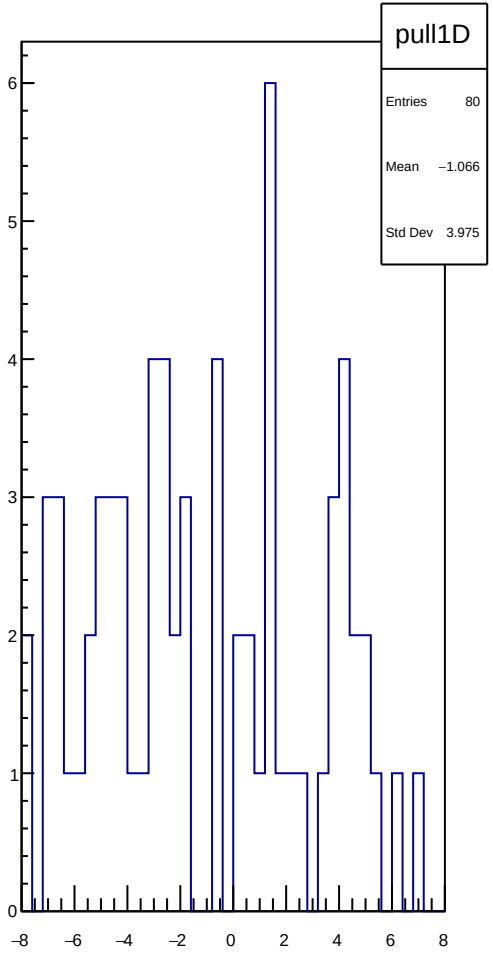

asym_bpm0r03WS_rms vs run
χ^2 / ndf 1.042e+05 / 79
p0 259.2 ± 0.215
450
400
350
300
250
200

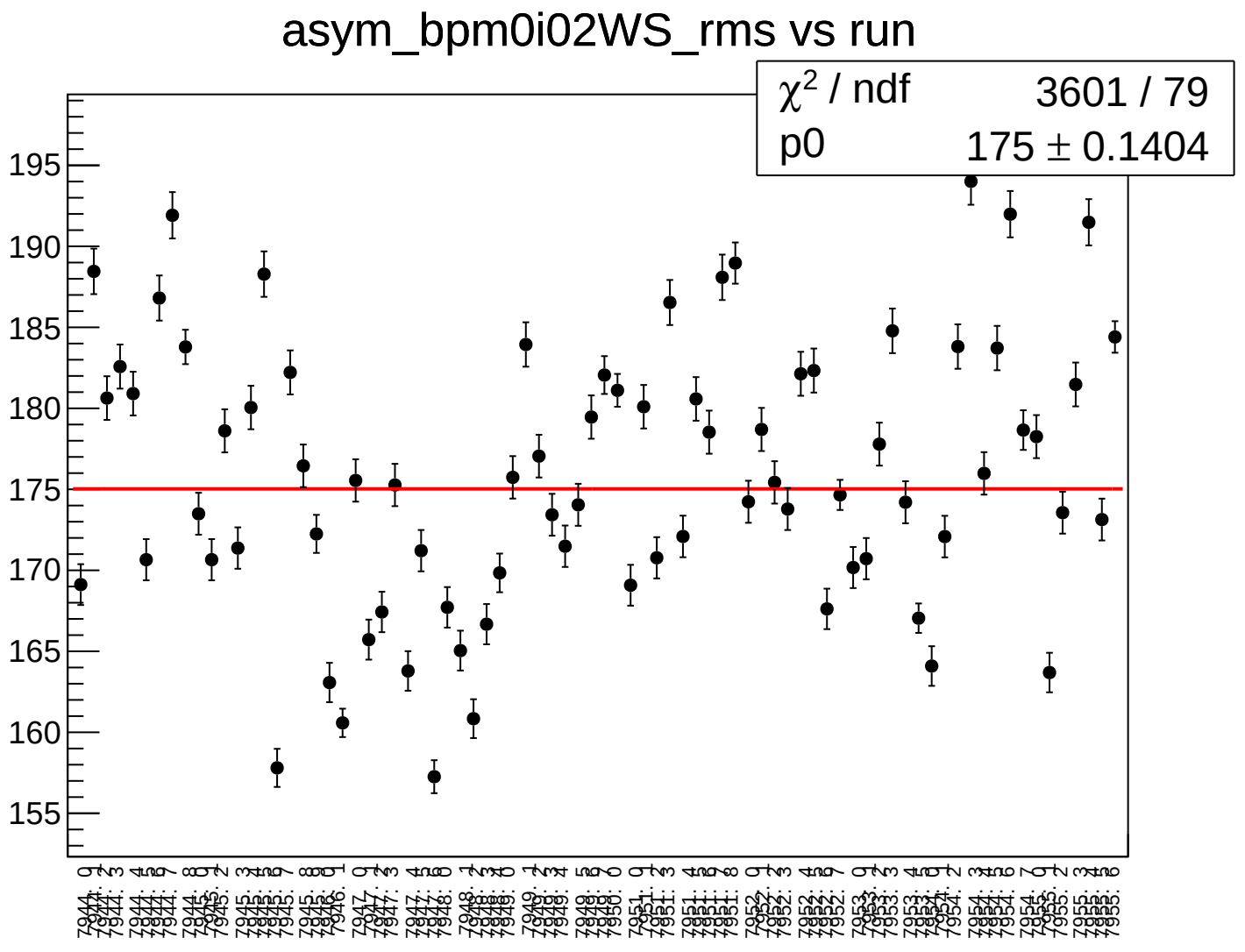

asym_bpm0r05WS_mean vs run
χ² / ndf 177.7 / 79
p0 −24.42 ± 331.3
pull
Entries 80
Mean −139
Std Dev 82.12

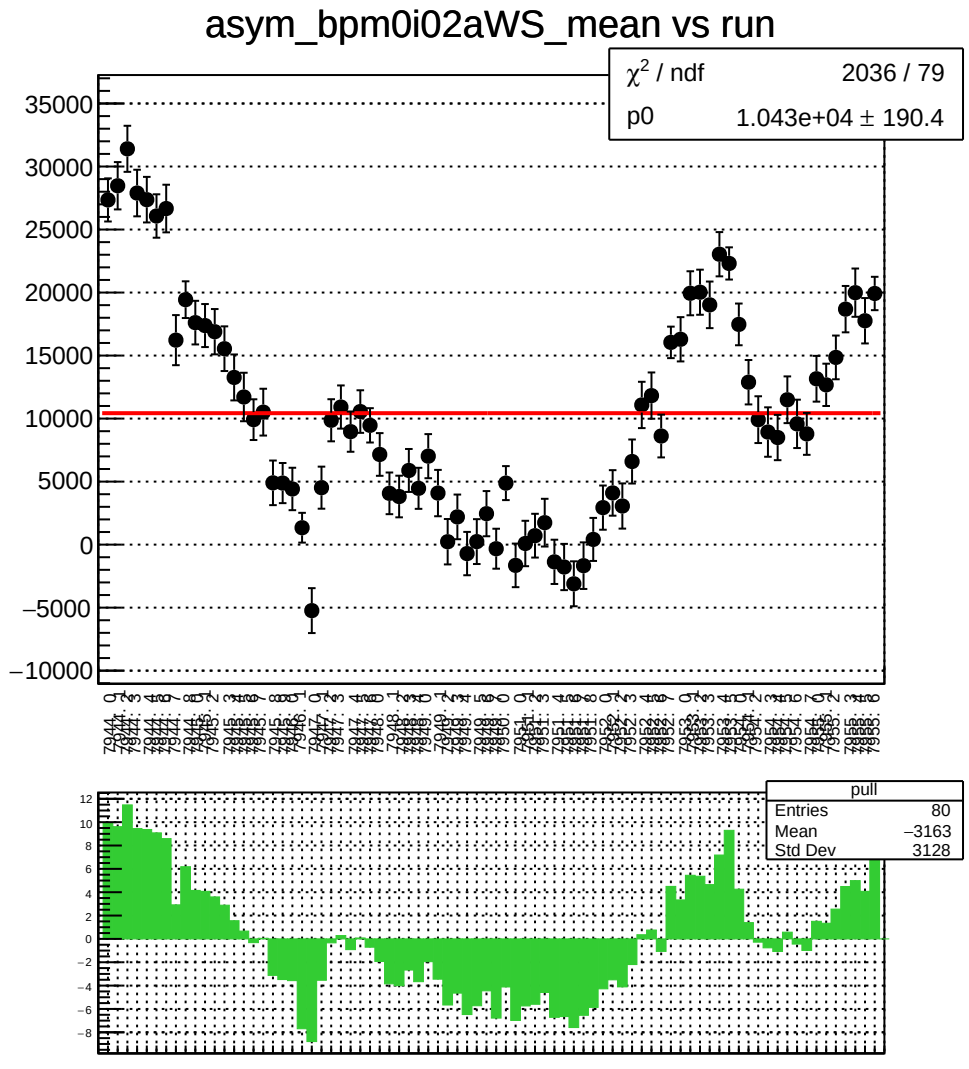

pull1D
Entries 80
Mean 0.02001
Std Dev 1.49

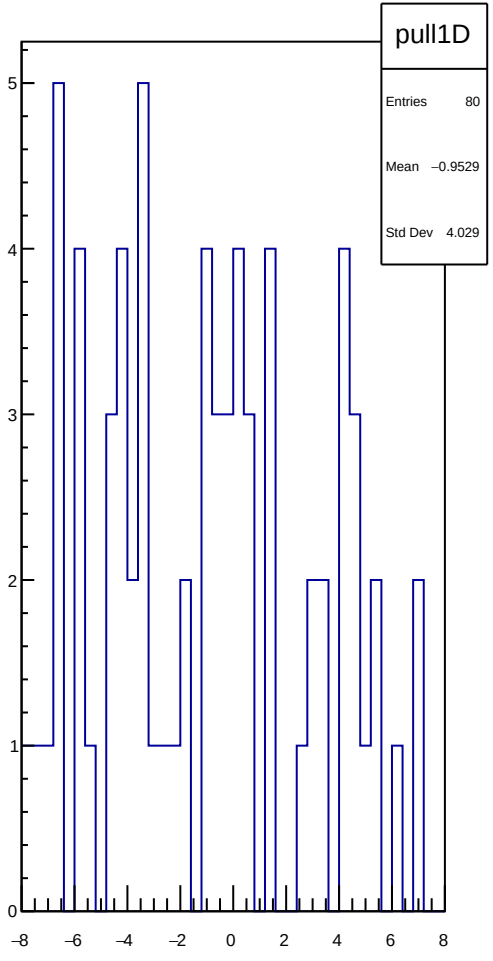

asym_bpm0r05WS_rms vs run
χ² / ndf 5373 / 79
p0 291.9 ± 0.2343
330
320
310
300
290
280
270
260
250

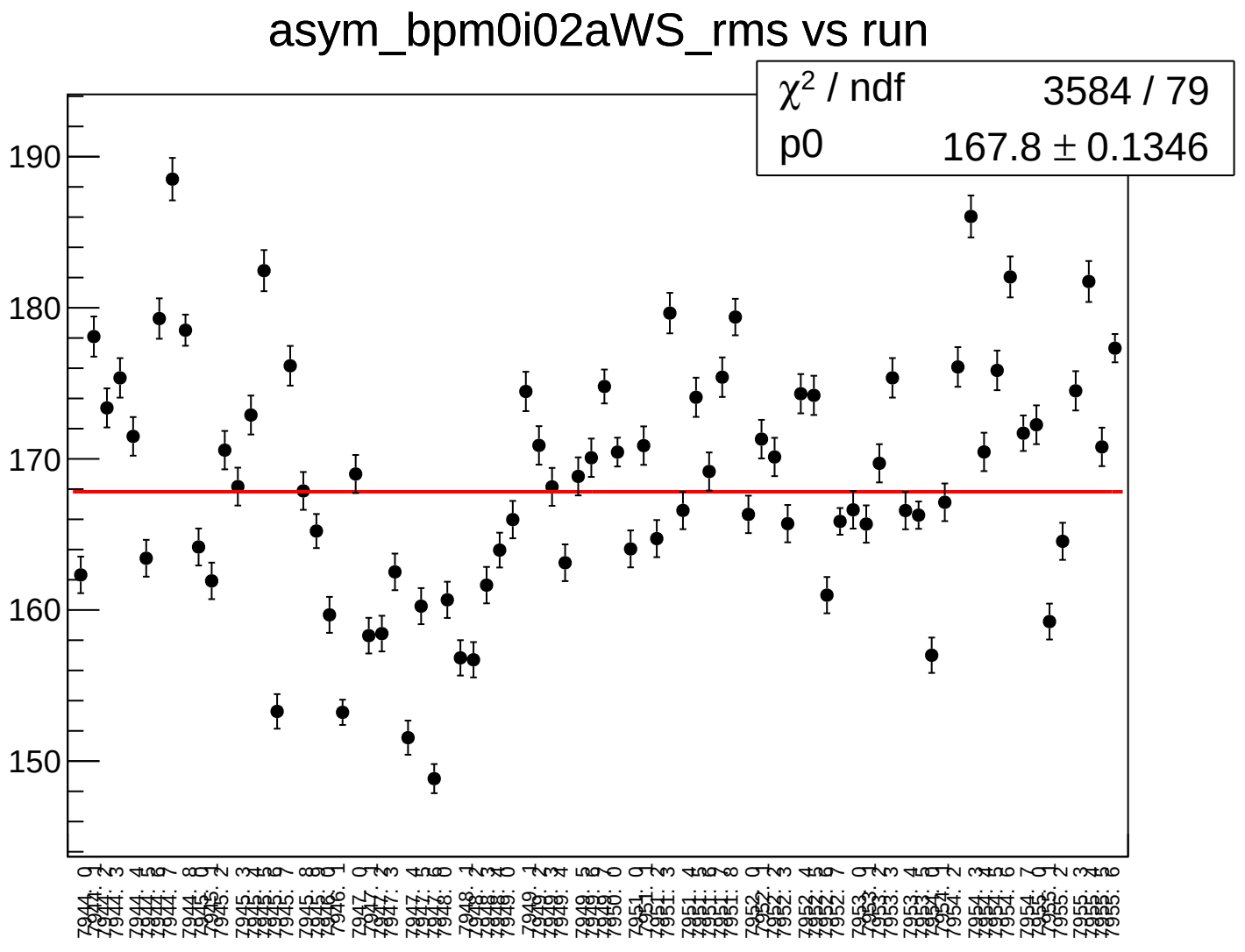

asym_bpm0i02WS_mean vs run
χ² / ndf 2254 / 79
p0 6730 ± 198.5
30000
20000
10000
0
−10000
pull
Entries 80
Mean 1.561e+04
Std Dev 1.561e+04
12
10
8
6
4
2
0
−2
−4
−6
−8

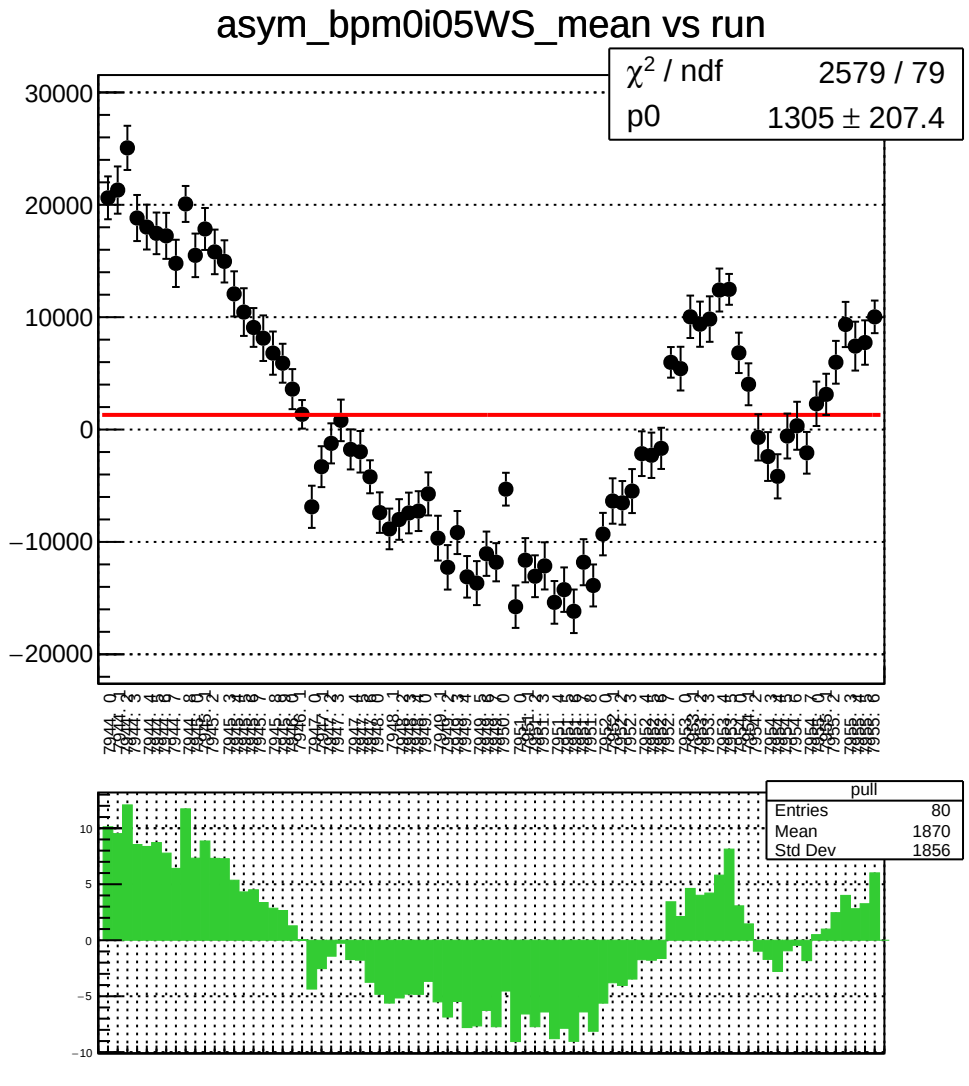

pull1D
Entries 80
Mean −1.066
Std Dev 3.975
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

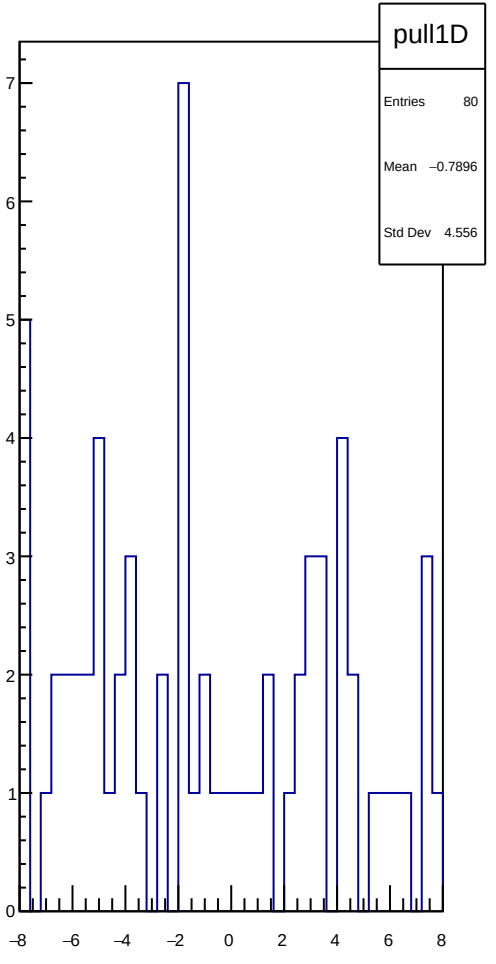

asym_bpm0i02WS_rms vs run
χ² / ndf 3601 / 79
p0 175 ± 0.1404
195
190
185
180
175
170
165
160
155

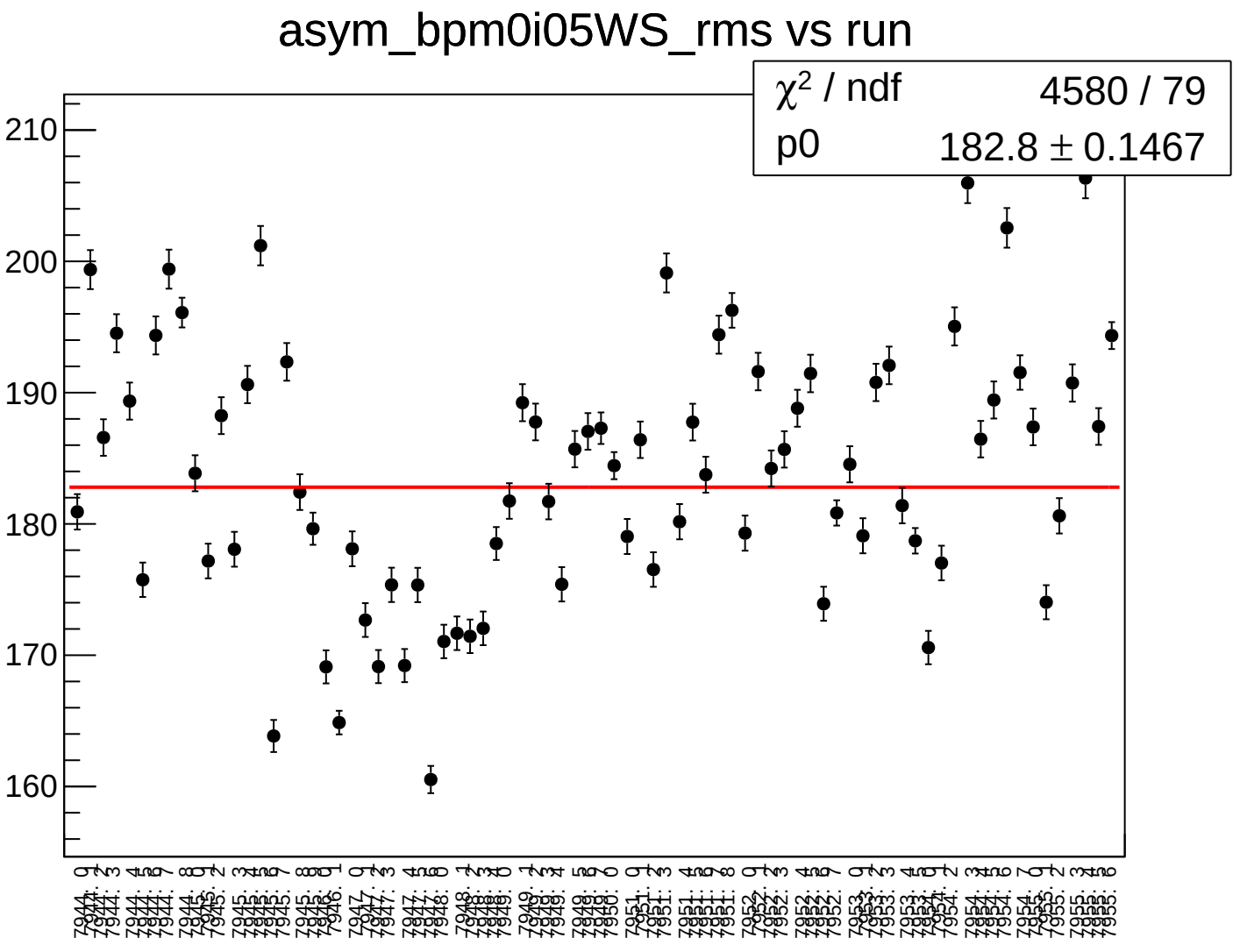

asym_bpm0i02aWS_mean vs run
χ² / ndf 2036 / 79
p0 1.043e+04 ± 190.4
pull
Entries 80
Mean −3163
Std Dev 3128

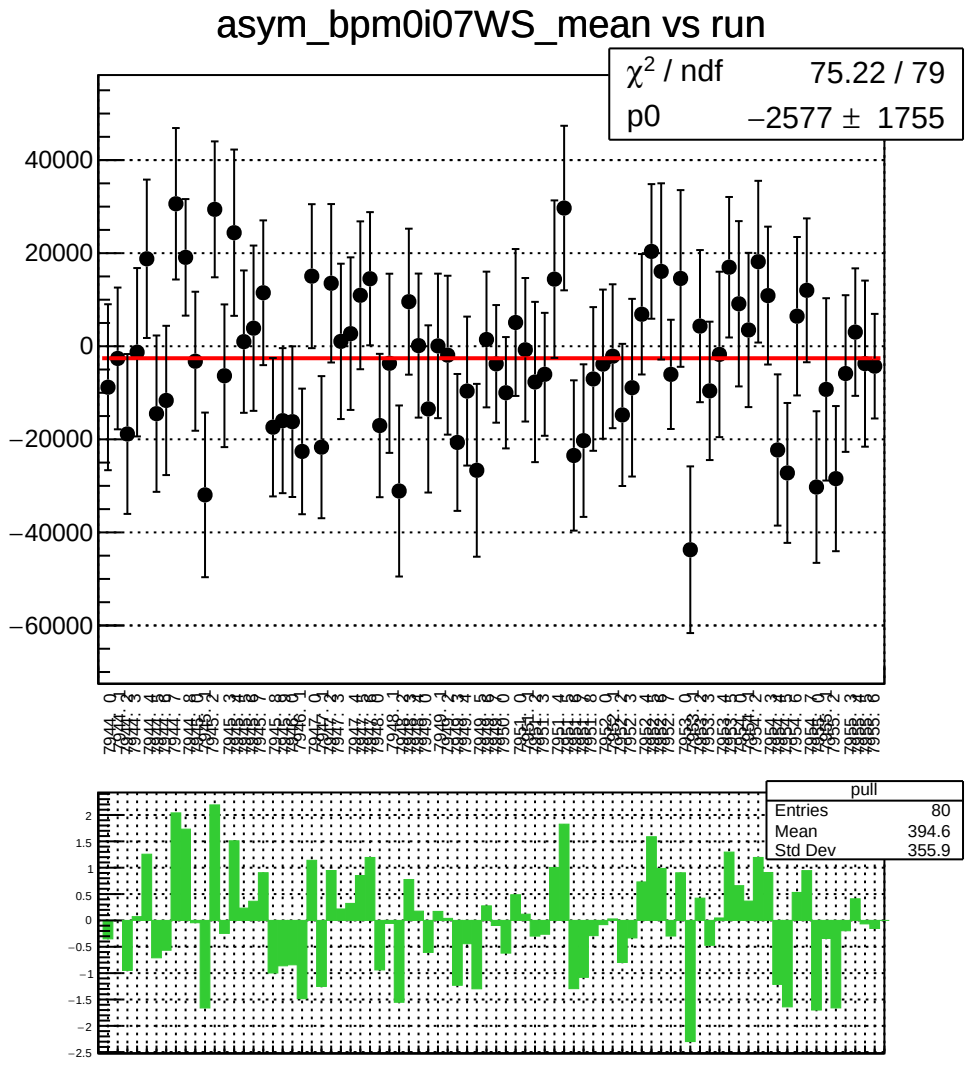

pull1D
Entries 80
Mean −0.9529
Std Dev 4.029

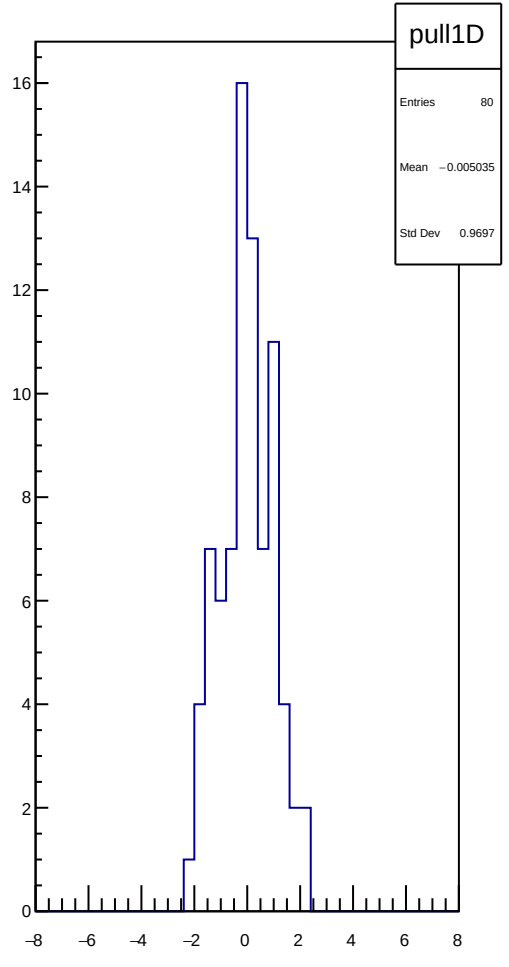

asym_bpm0i02aWS_rms vs run
χ² / ndf 3584 / 79
p0 167.8 ± 0.1346
190
180
170
160
150

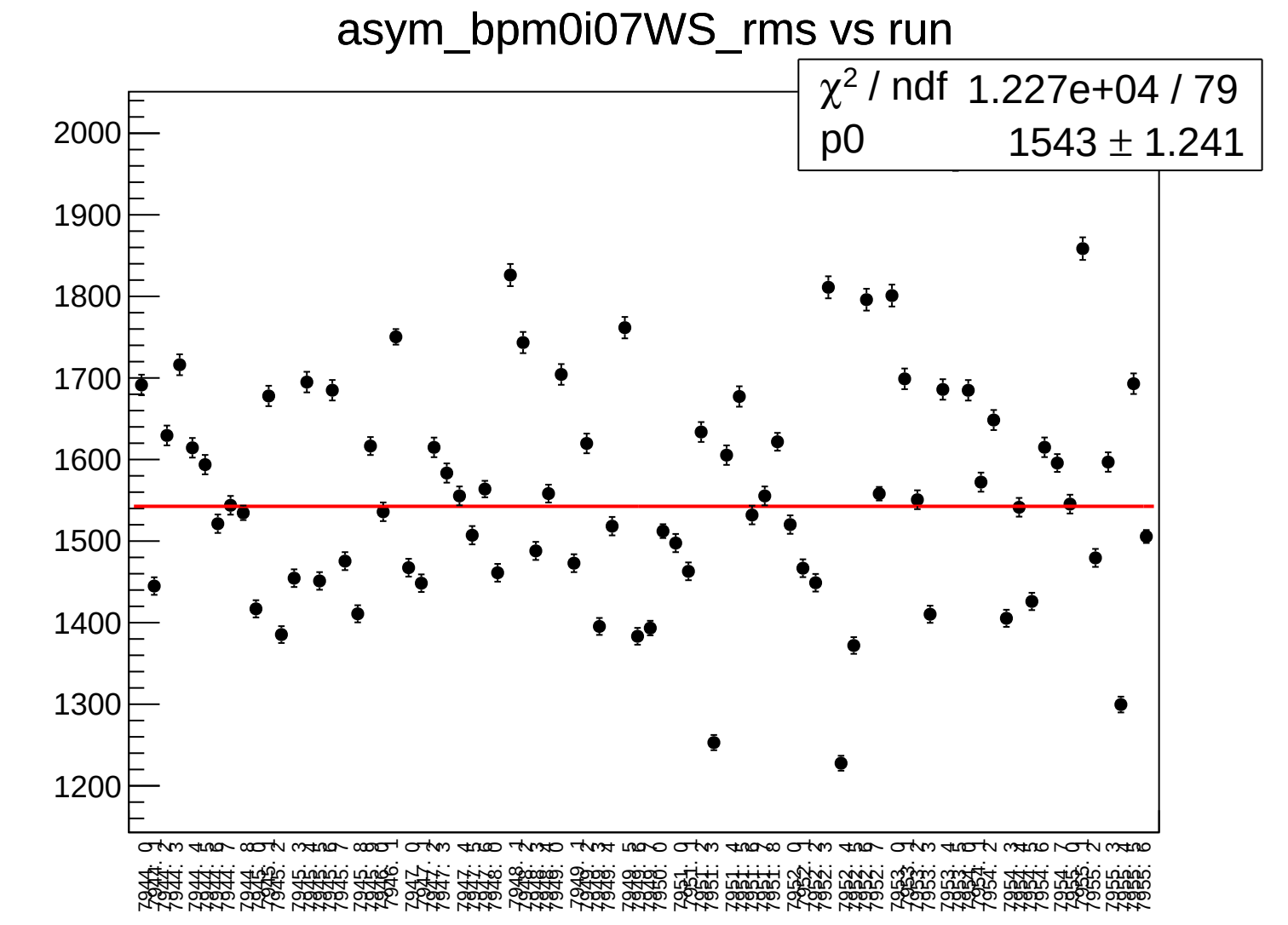

asym_bpm0i05WS_mean vs run
χ² / ndf 2579 / 79
p0 1305 ± 207.4
30000
20000
10000
0
−10000
−20000
pull
Entries 80
Mean 1870
Std Dev 1856
10
5
0
−5
−10

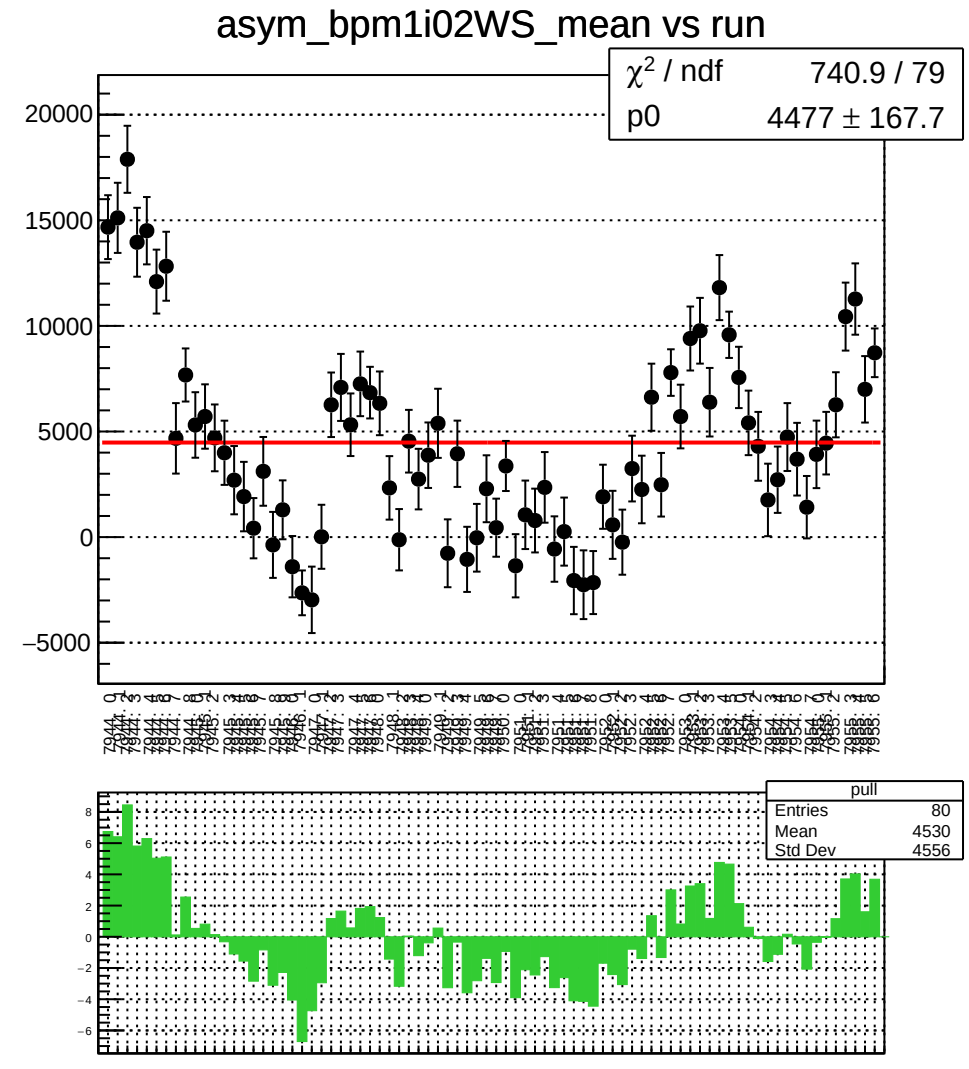

pull1D
Entries 80
Mean −0.7896
Std Dev 4.556
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

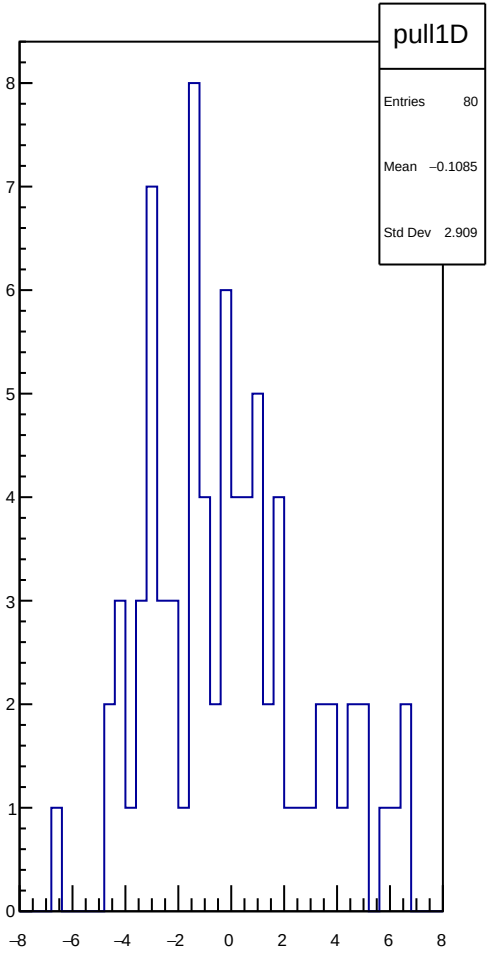

asym_bpm0i05WS_rms vs run
χ² / ndf 4580 / 79
p0 182.8 ± 0.1467
210
200
190
180
170
160

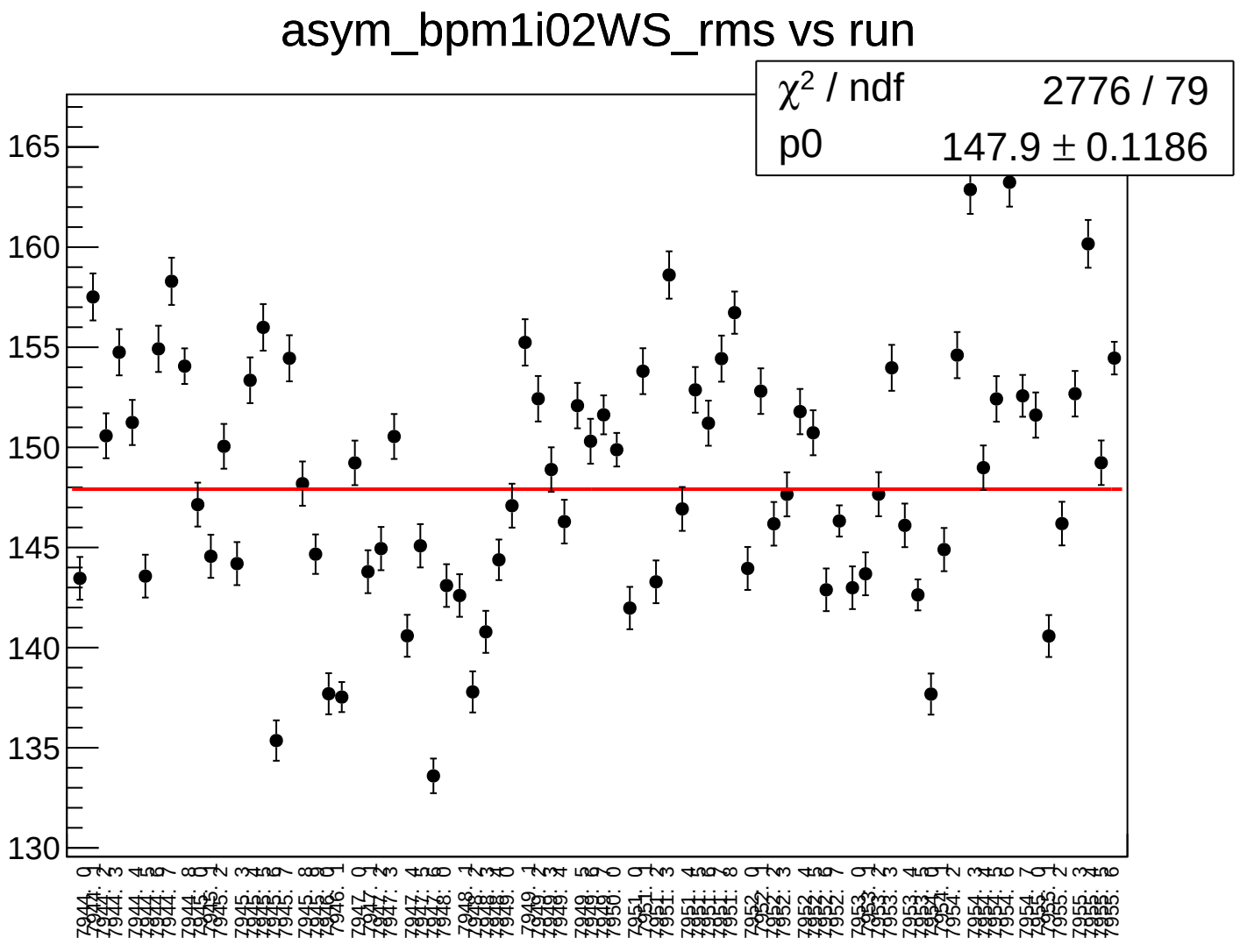

asym_bpm0i07WS_mean vs run
χ² / ndf 75.22 / 79
p0 −2577 ± 1755
40000
20000
0
−20000
−40000
−60000
pull
Entries 80
Mean 394.6
Std Dev 355.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

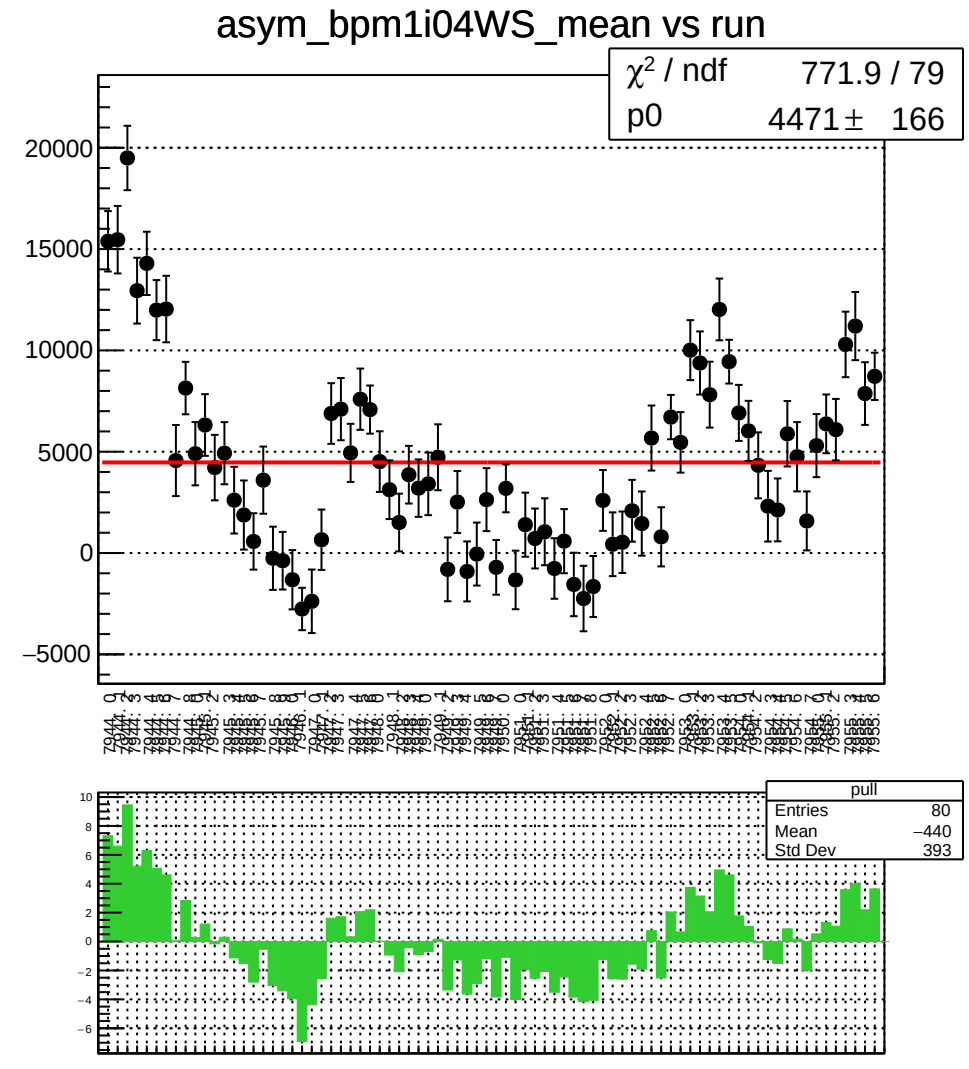

pull1D
Entries 80
Mean −0.005035
Std Dev 0.9697
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

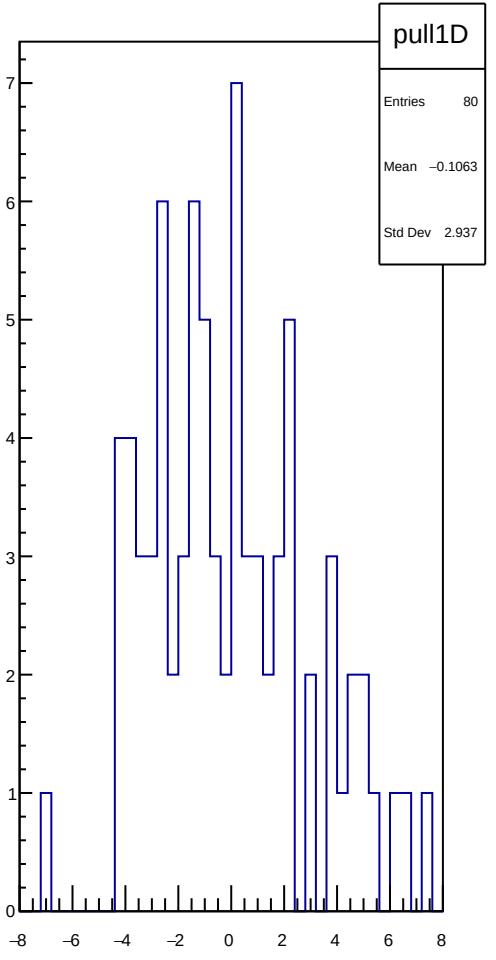

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.227e+04 / 79
p0 1543 ± 1.241
2000
1900
1800
1700
1600
1500
1400
1300
1200

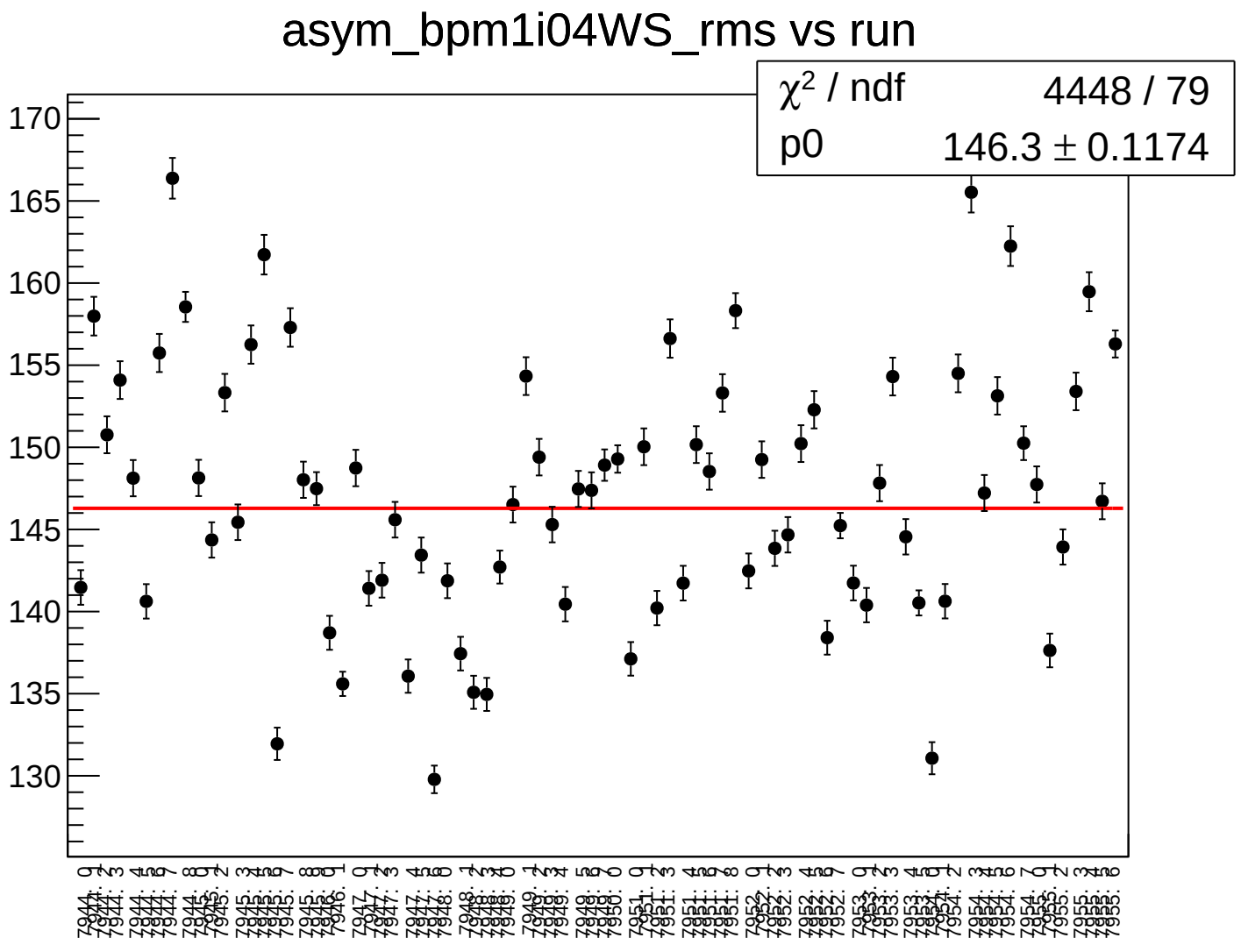

asym_bpm1i02WS_mean vs run
χ² / ndf 740.9 / 79
p0 4477 ± 167.7
20000
15000
10000
5000
0
−5000
pull
Entries 80
Mean 4530
Std Dev 4556
8
6
4
2
0
−2
−4
−6

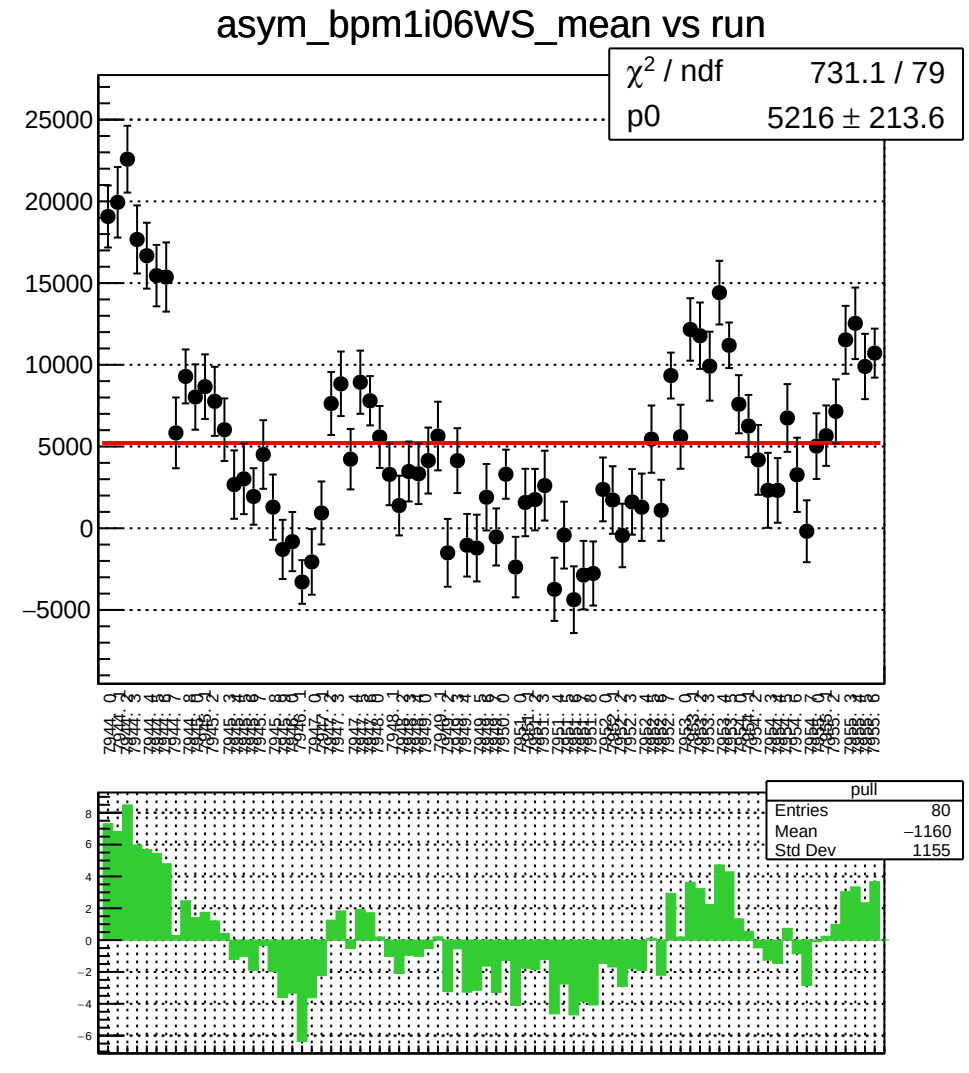

pull1D
Entries 80
Mean −0.1085
Std Dev 2.909
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

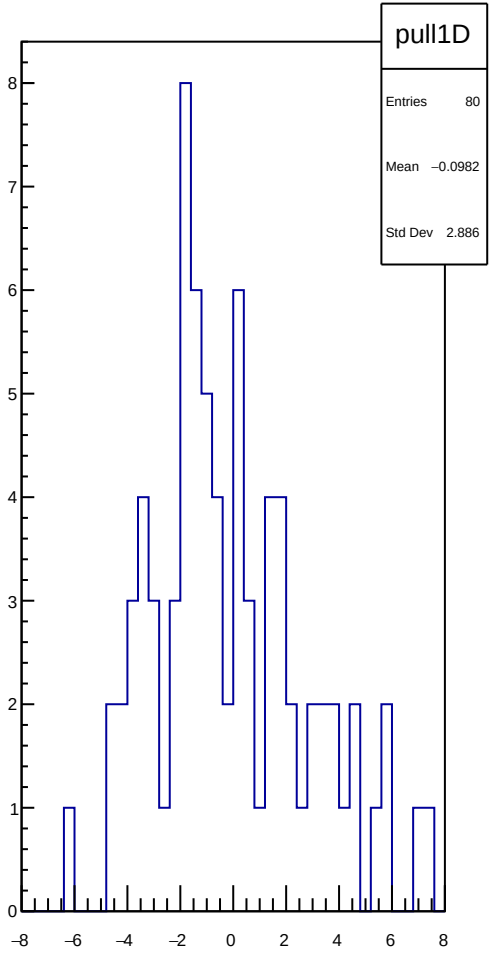

asym_bpm1i02WS_rms vs run
χ² / ndf 2776 / 79
p0 147.9 ± 0.1186
165
160
155
150
145
140
135
130

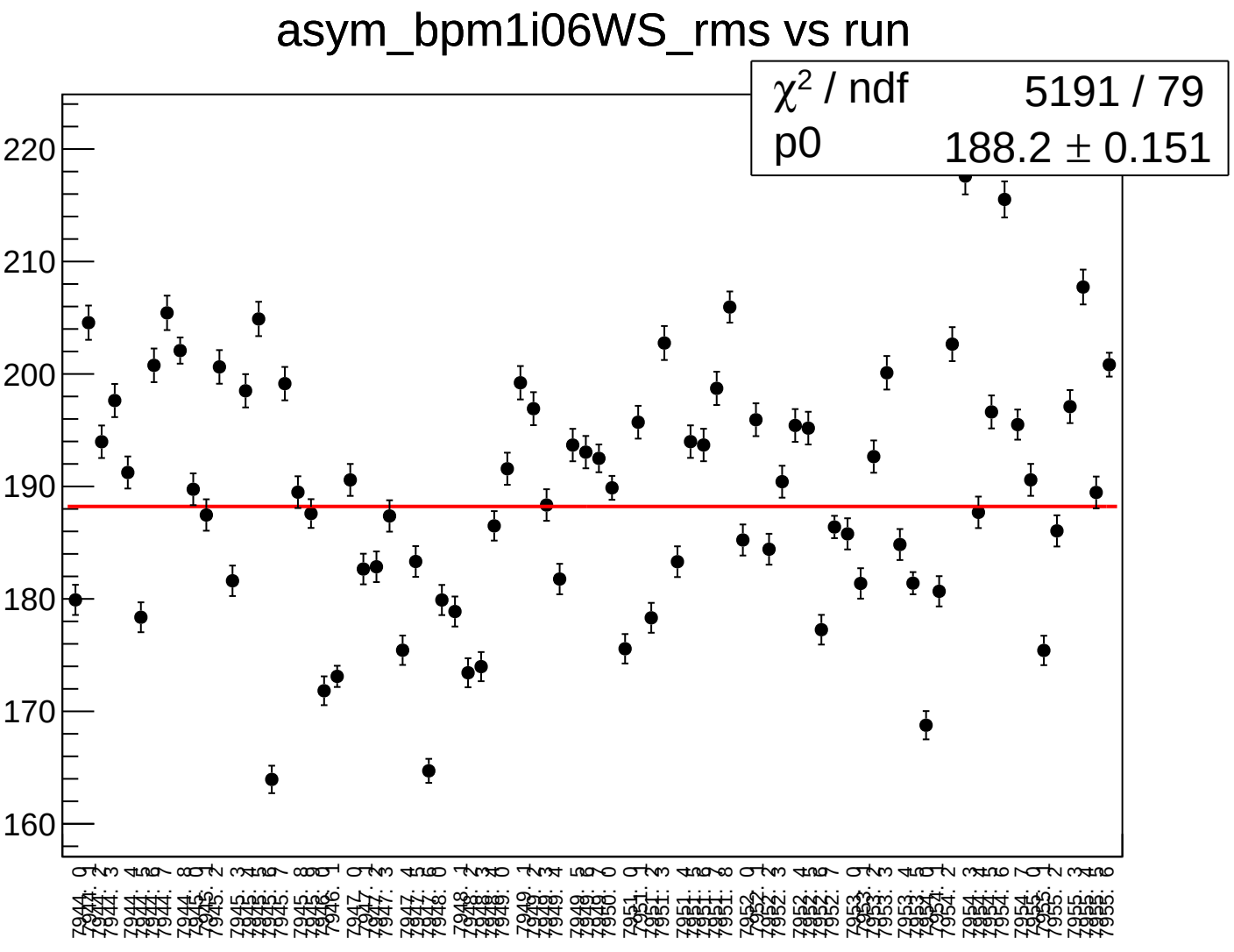

asym_bpm1i04WS_mean vs run
χ² / ndf 771.9 / 79
p0 4471 ± 166
pull
Entries 80
Mean −440
Std Dev 393

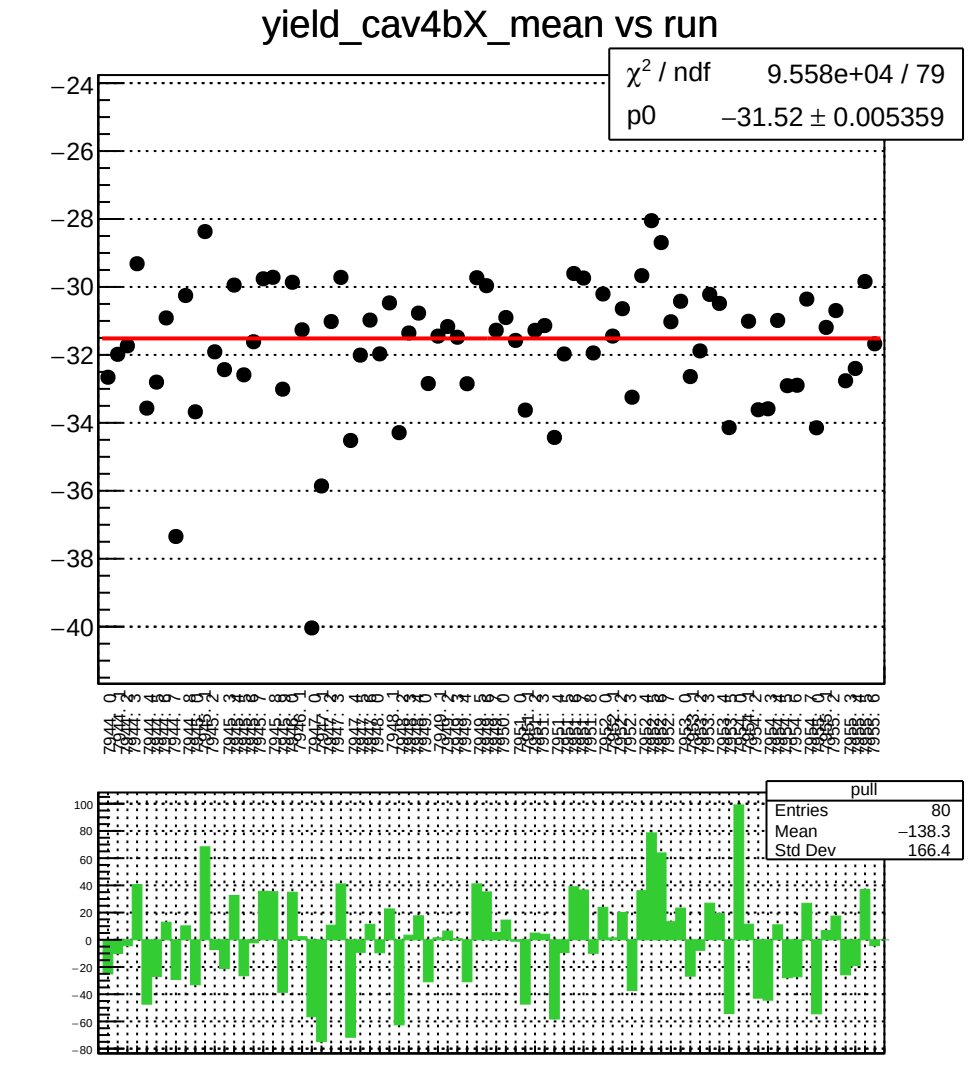

pull1D
Entries 80
Mean −0.1063
Std Dev 2.937

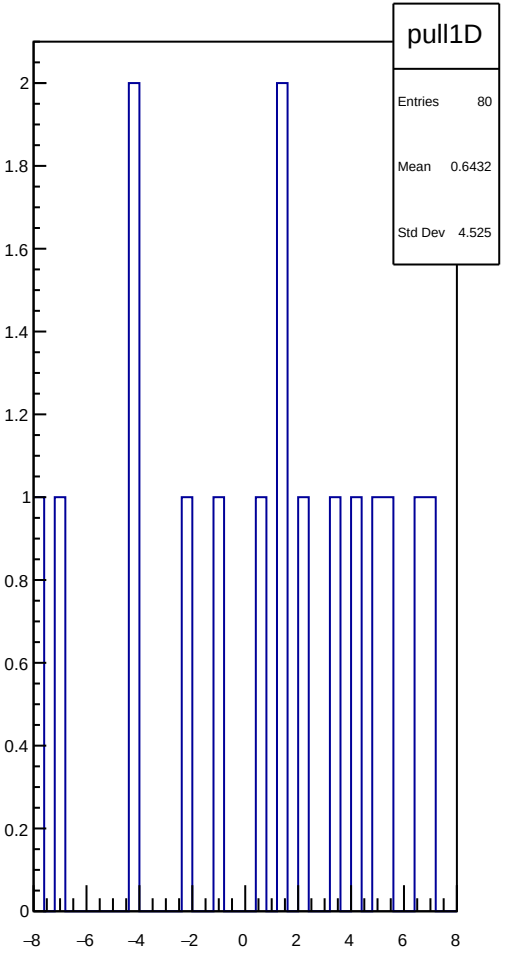

asym_bpm1i04WS_rms vs run
χ² / ndf 4448 / 79
p0 146.3 ± 0.1174
170
165
160
155
150
145
140
135
130

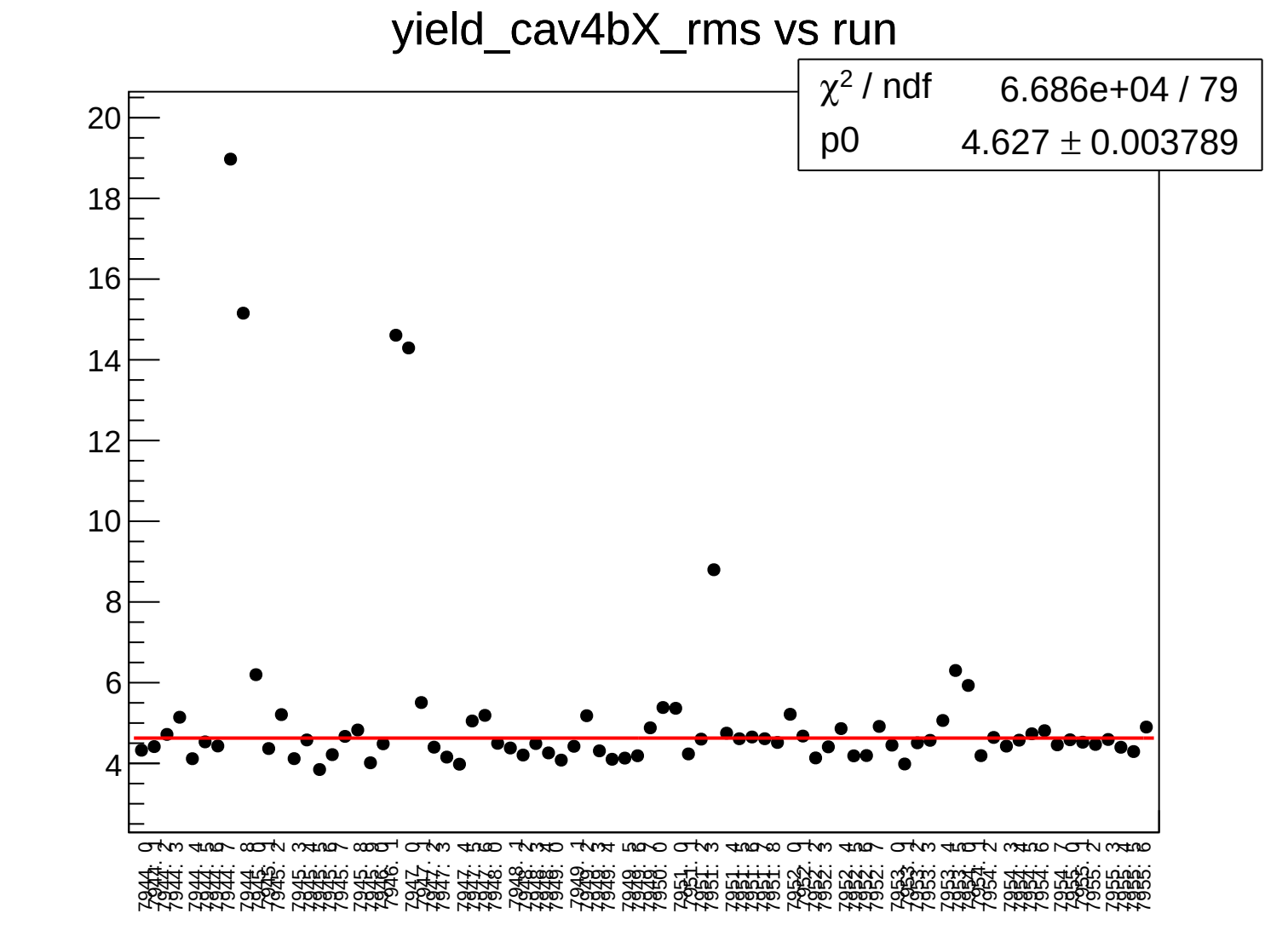

asym_bpm1i06WS_mean vs run
χ² / ndf 731.1 / 79
p0 5216 ± 213.6
25000
20000
15000
10000
5000
0
−5000
pull
Entries 80
Mean −1160
Std Dev 1155
8
6
4
2
0
−2
−4
−6

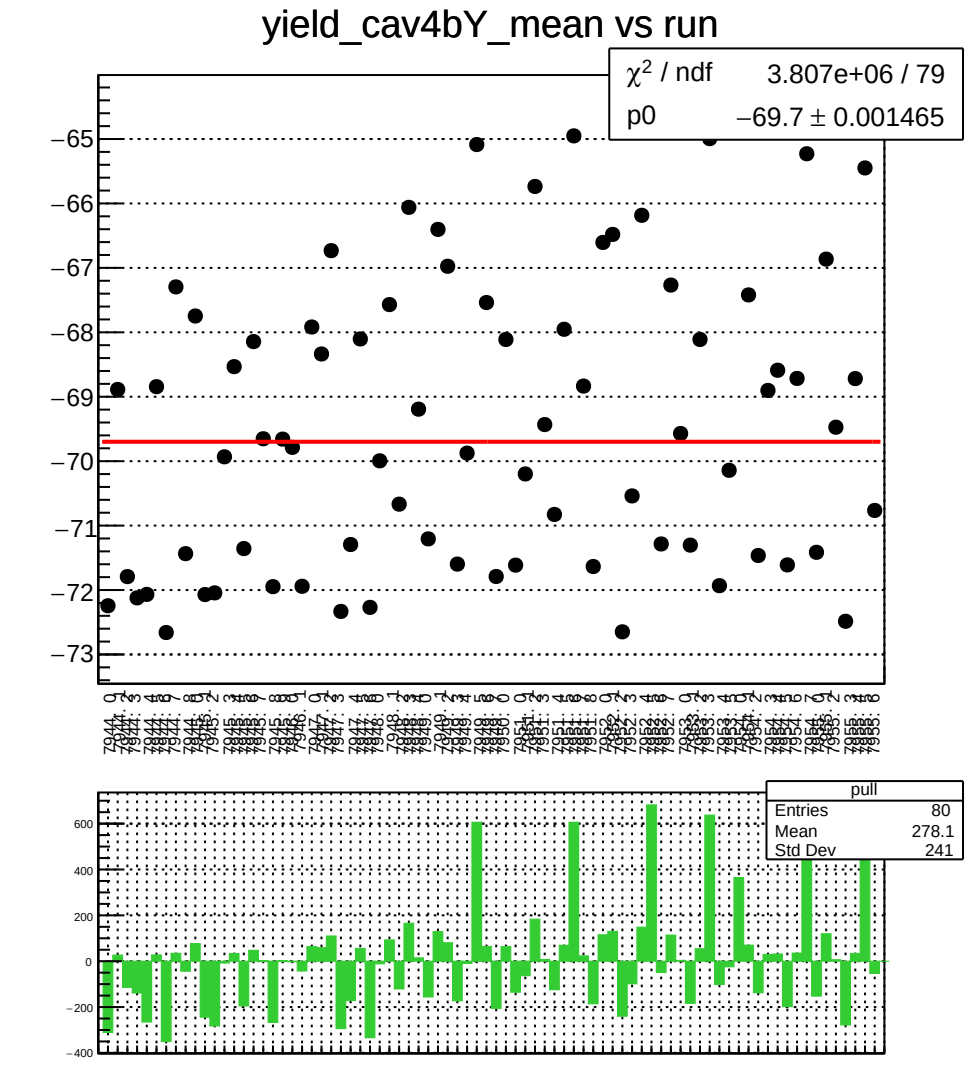

pull1D
Entries 80
Mean −0.0982
Std Dev 2.886
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

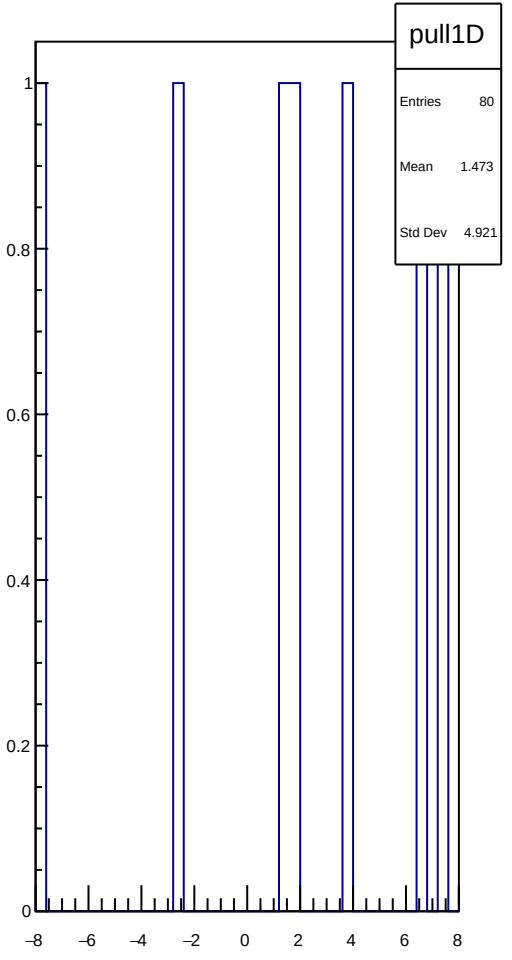

asym_bpm1i06WS_rms vs run
χ² / ndf 5191 / 79
p0 188.2 ± 0.151
220
210
200
190
180
170
160

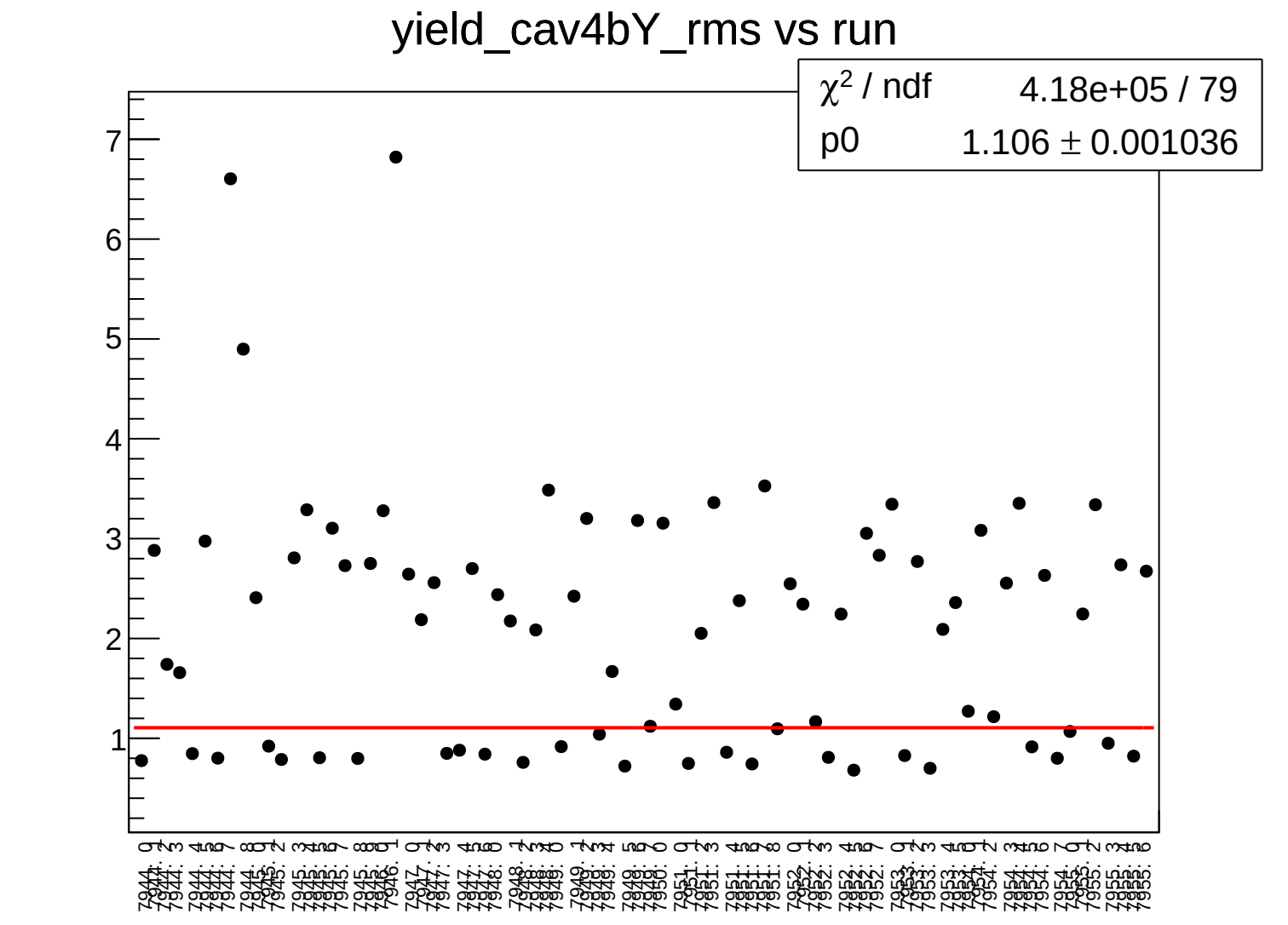

yield_cav4bX_mean vs run
χ² / ndf 9.558e+04 / 79
p0 −31.52 ± 0.005359
pull
Entries 80
Mean −138.3
Std Dev 166.4

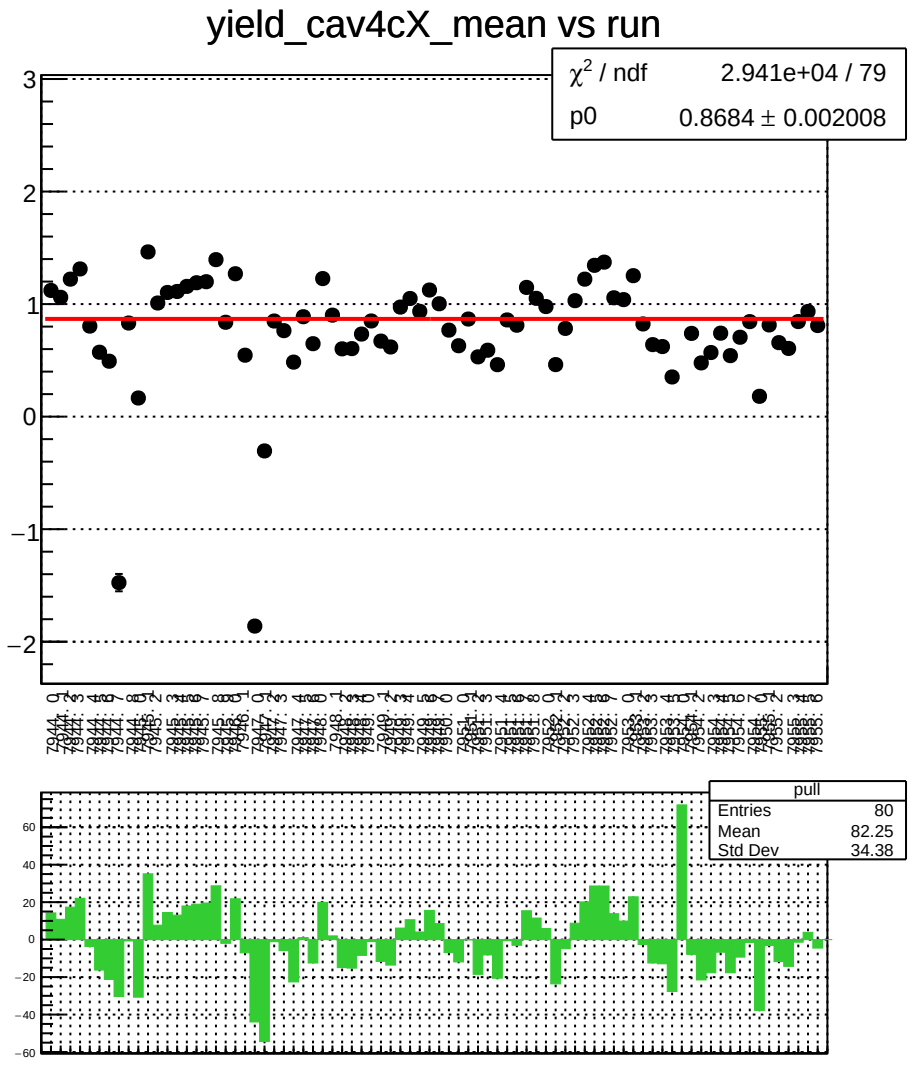

pull1D
Entries 80
Mean 0.6432
Std Dev 4.525

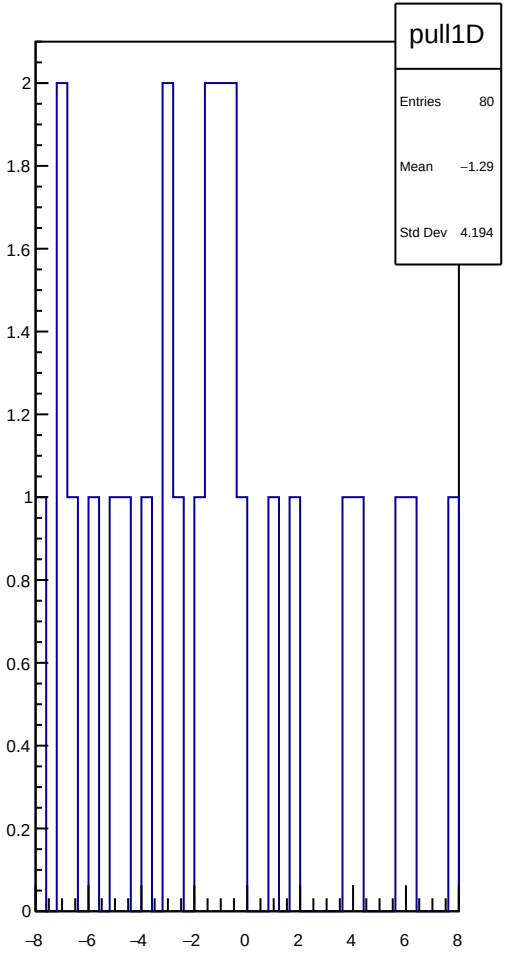

yield_cav4bX_rms vs run
χ^2 / ndf 6.686e+04 / 79
p0 4.627 ± 0.003789
20
18
16
14
12
10
8
6
4

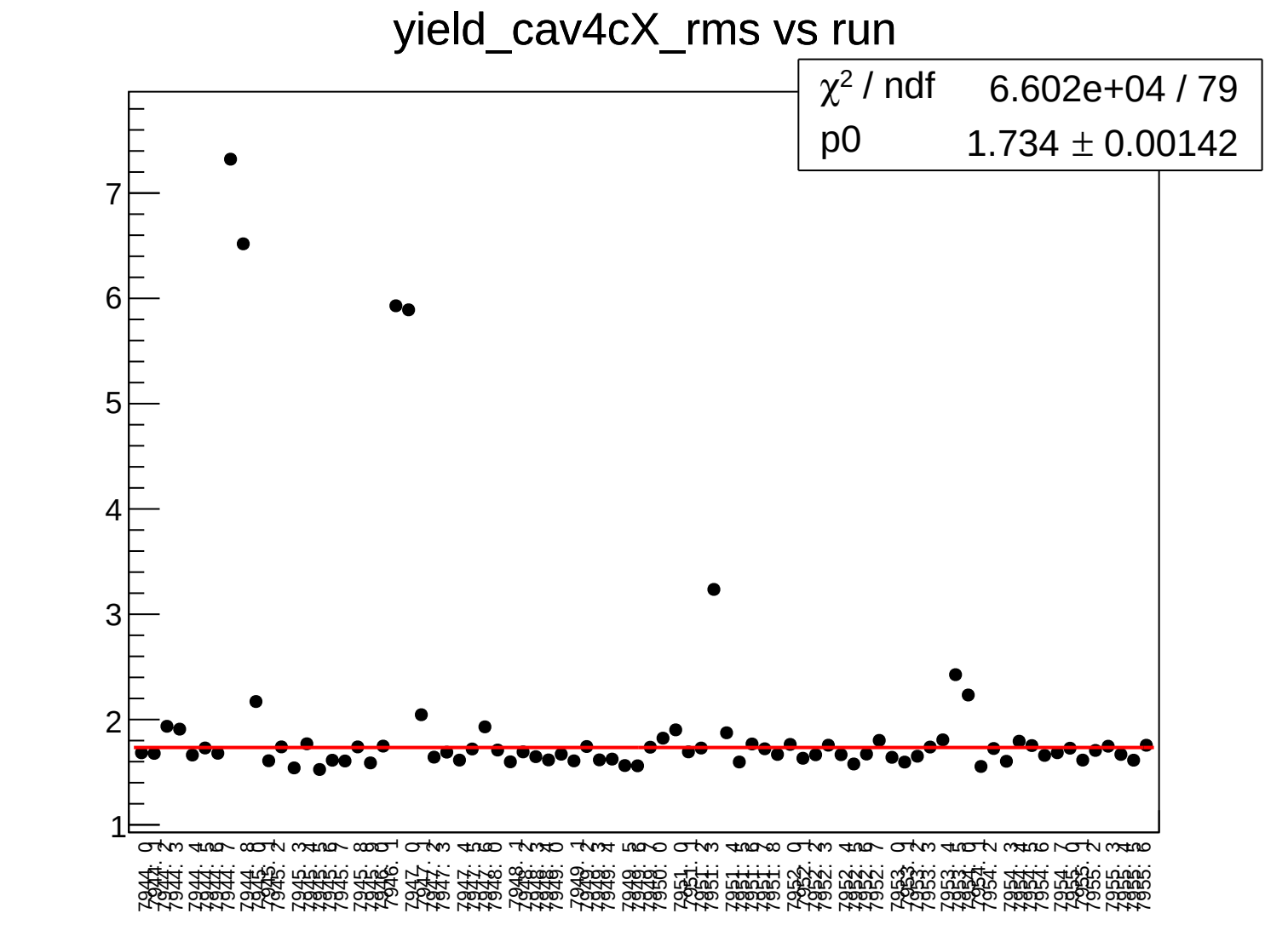

yield_cav4bY_mean vs run
χ² / ndf 3.807e+06 / 79
p0 −69.7 ± 0.001465
−65
−66
−67
−68
−69
−70
−71
−72
−73
pull
Entries 80
Mean 278.1
Std Dev 241
600
400
200
0
−200
−400

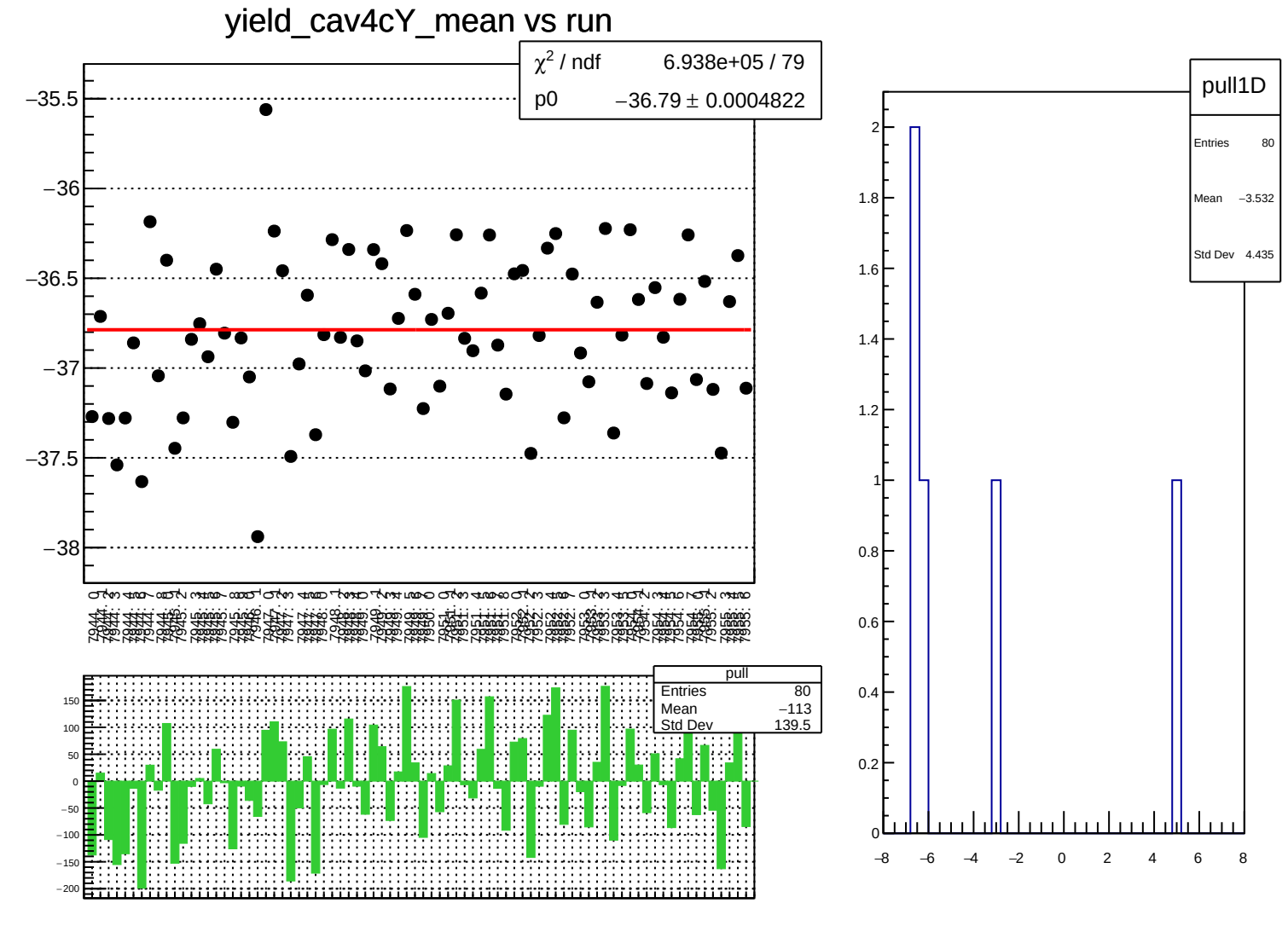

pull1D
Entries 80
Mean 1.473
Std Dev 4.921
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

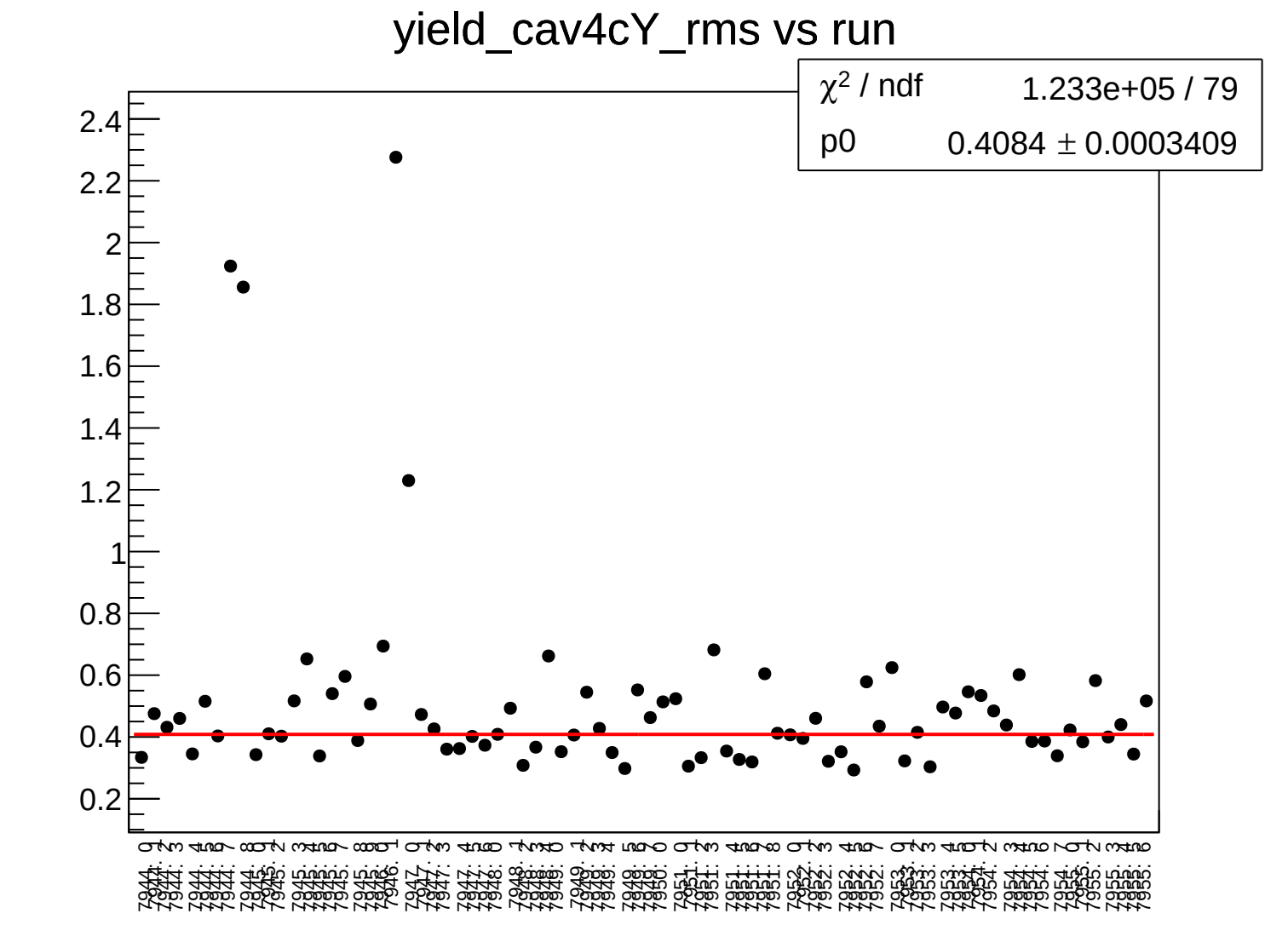

yield_cav4bY_rms vs run
χ^2 / ndf 4.18e+05 / 79
p0 1.106 ± 0.001036
7
6
5
4
3
2
1

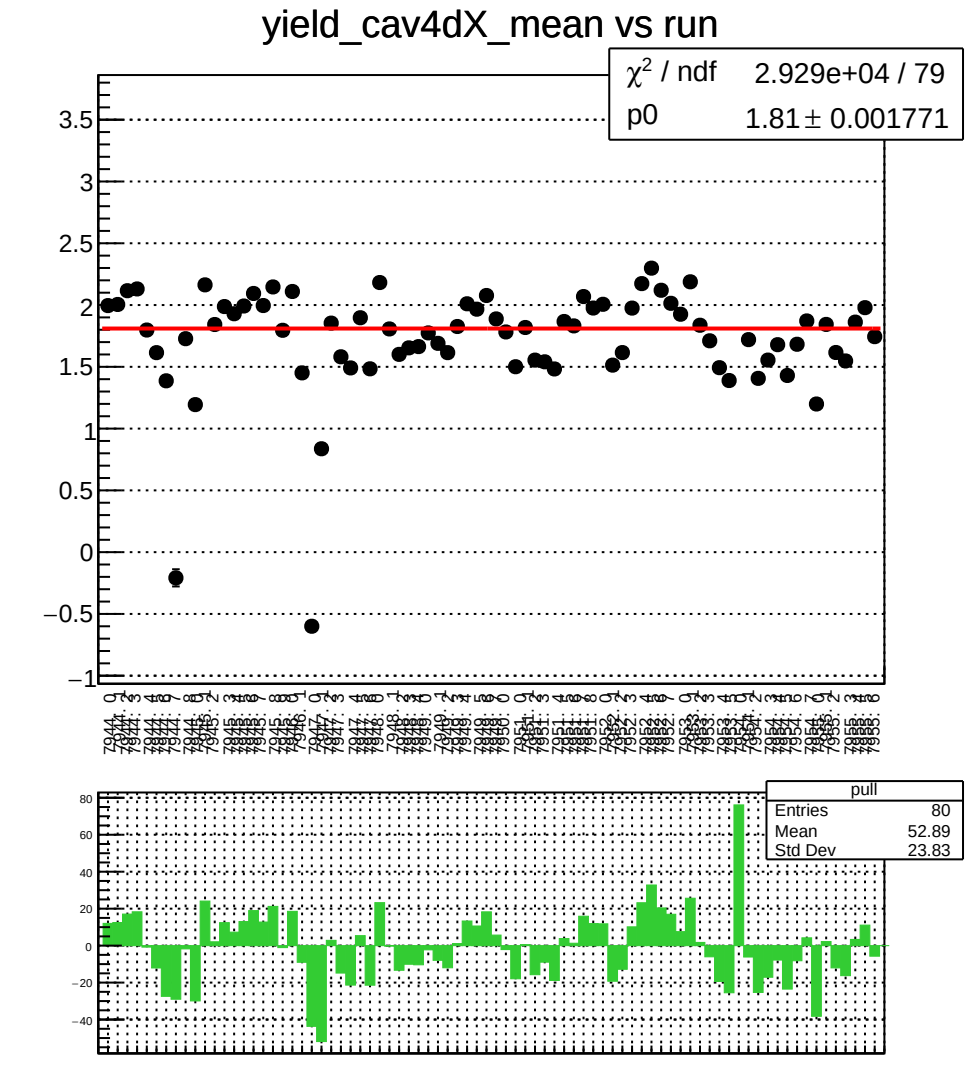

yield_cav4cX_mean vs run
χ² / ndf 2.941e+04 / 79
p0 0.8684 ± 0.002008
pull
Entries 80
Mean 82.25
Std Dev 34.38

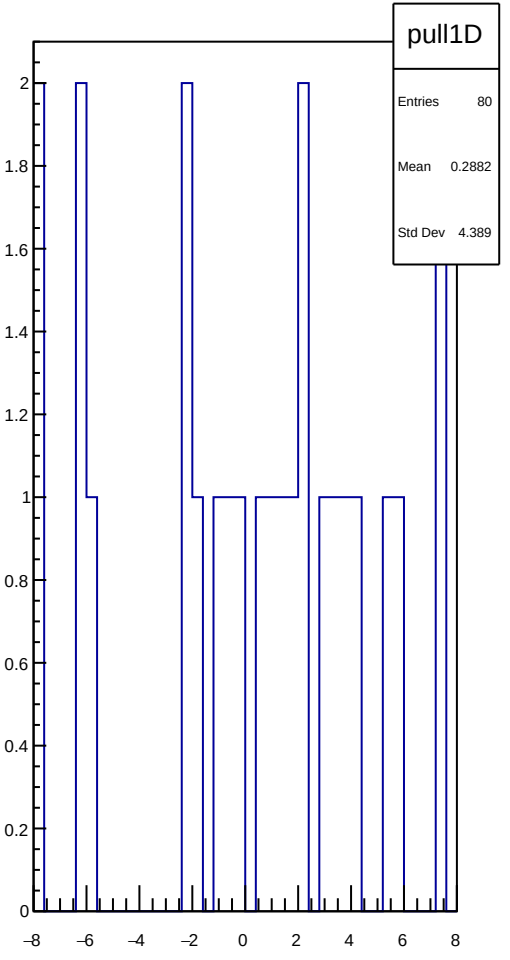

pull1D
Entries 80
Mean −1.29
Std Dev 4.194

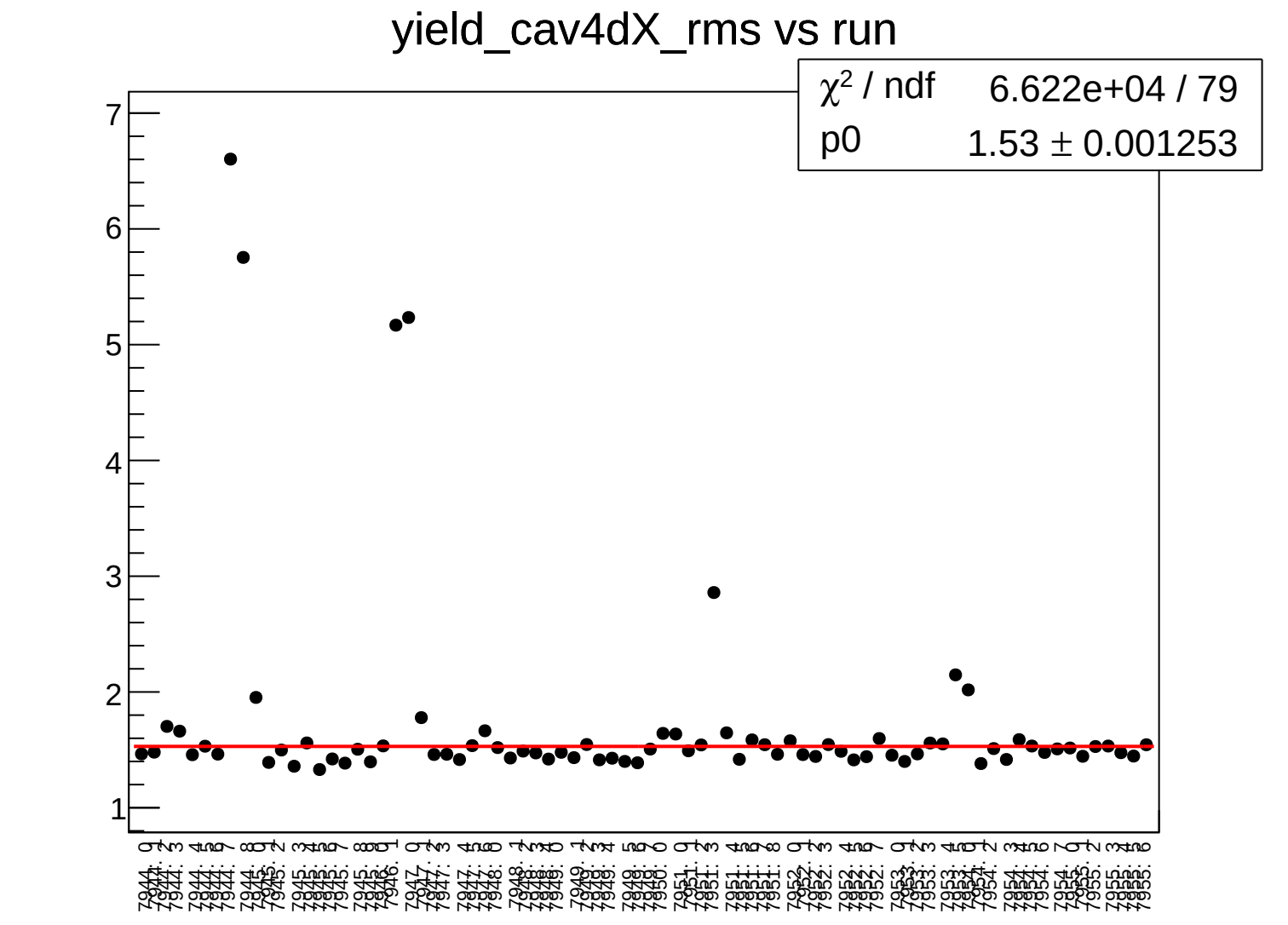

yield_cav4cX_rms vs run
χ² / ndf 6.602e+04 / 79
p0 1.734 ± 0.00142
7
6
5
4
3
2
1

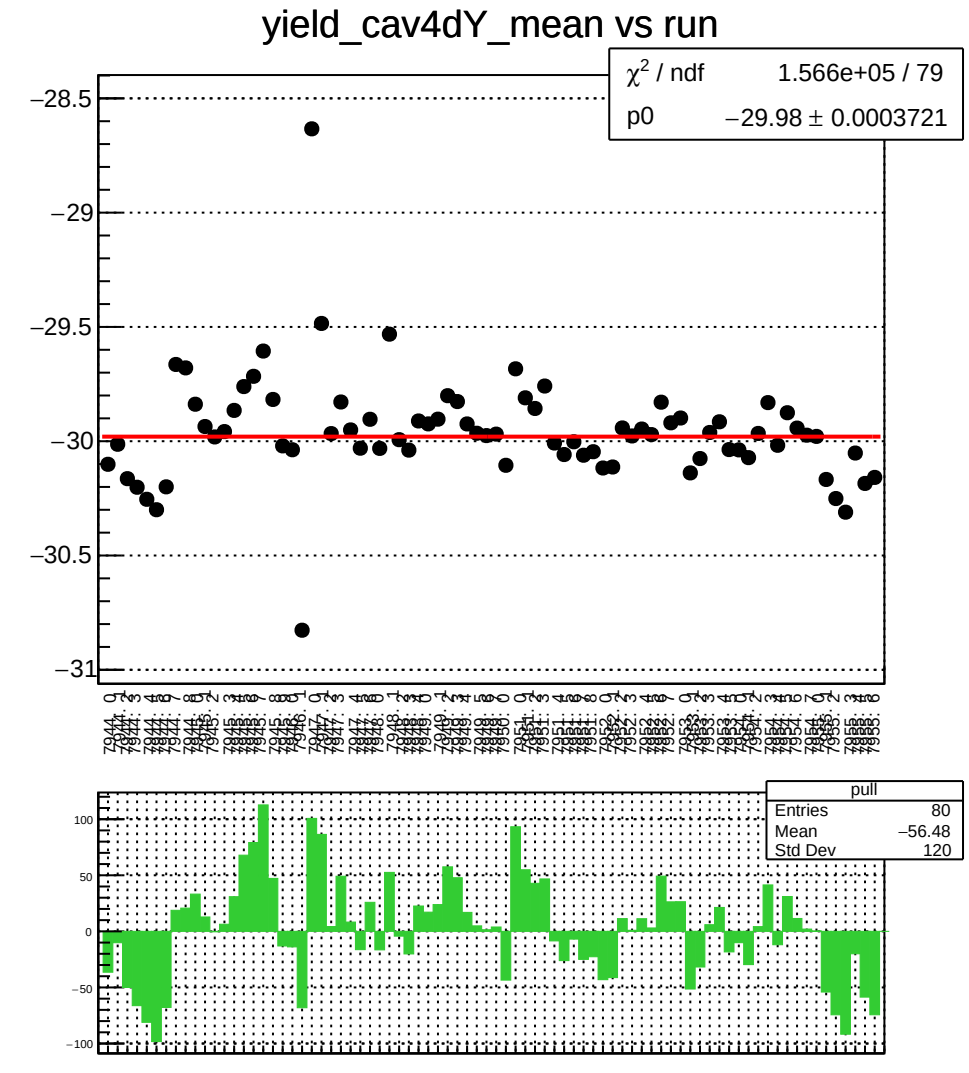

yield_cav4cY_mean vs run
χ² / ndf 6.938e+05 / 79
p0 −36.79 ± 0.0004822
−35.5
−36
−36.5
−37
−37.5
−38
pull
Entries 80
Mean −113
Std Dev 139.5
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 80
Mean −3.532
Std Dev 4.435
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

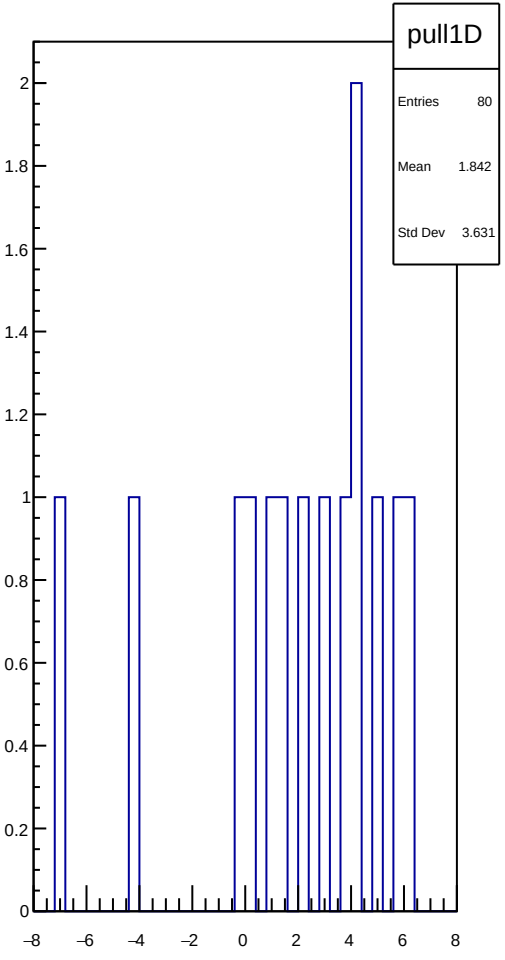

yield_cav4cY_rms vs run
χ² / ndf 1.233e+05 / 79
p0 0.4084 ± 0.0003409
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

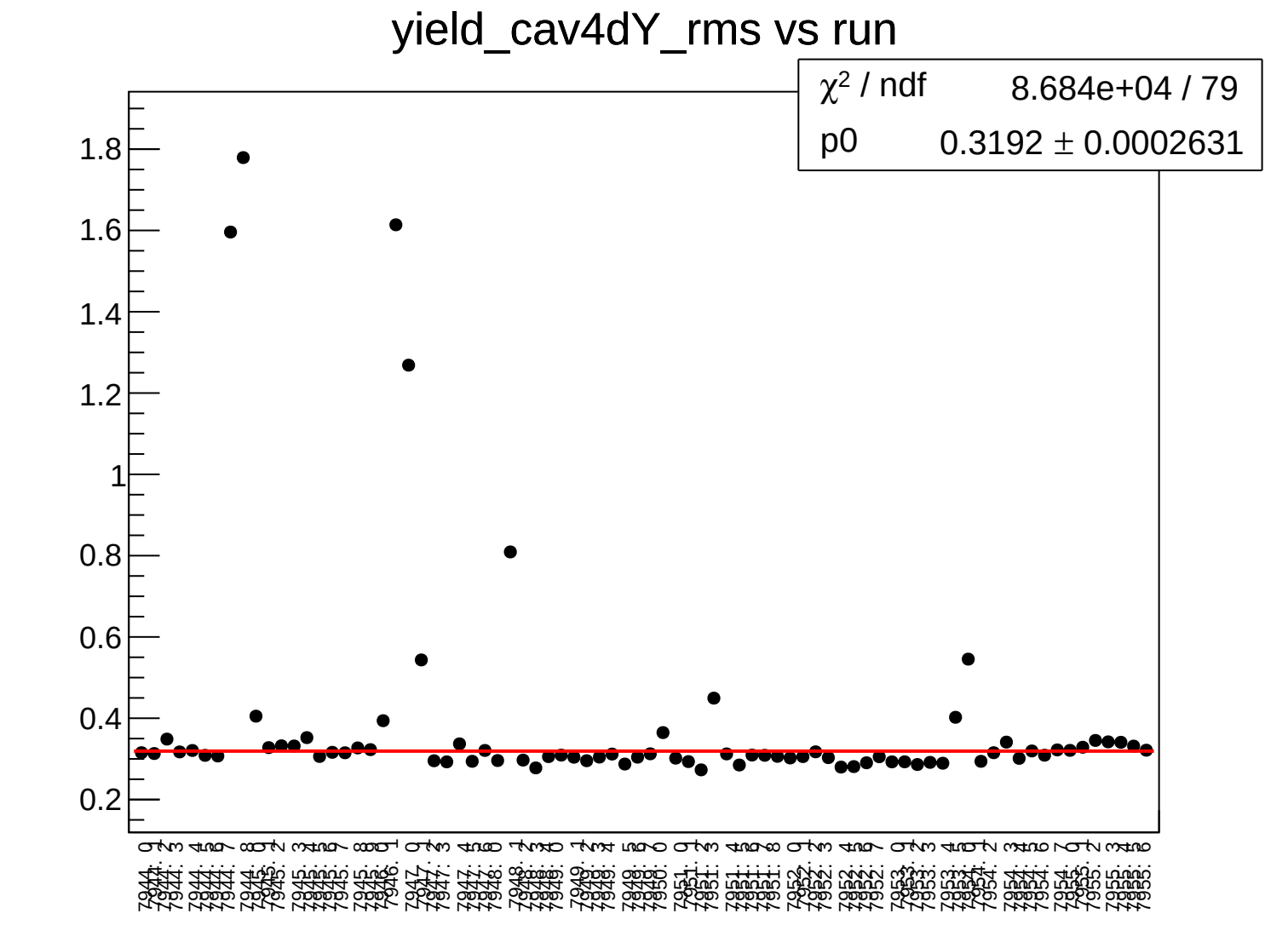

yield_cav4dX_mean vs run
χ² / ndf 2.929e+04 / 79
p0 1.81 ± 0.001771
pull
Entries 80
Mean 52.89
Std Dev 23.83

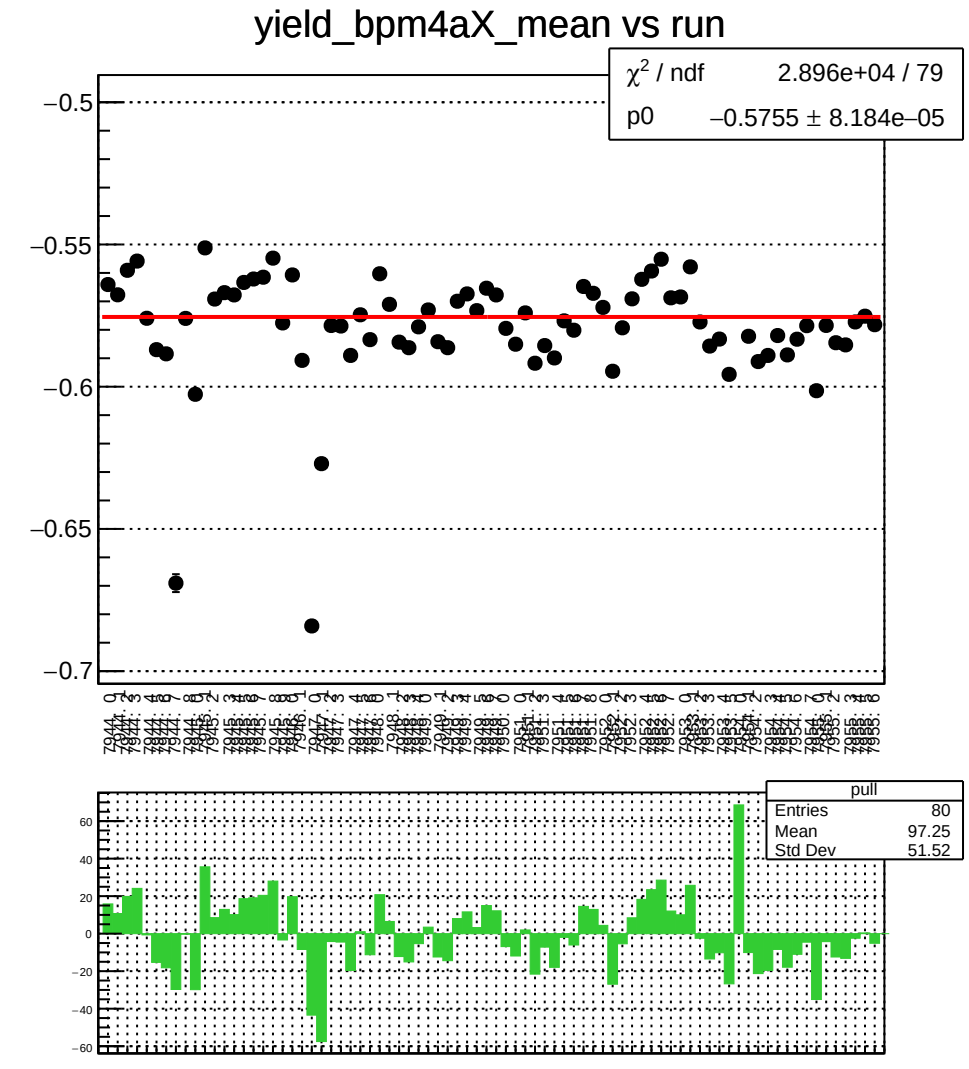

pull1D
Entries 80
Mean 0.2882
Std Dev 4.389

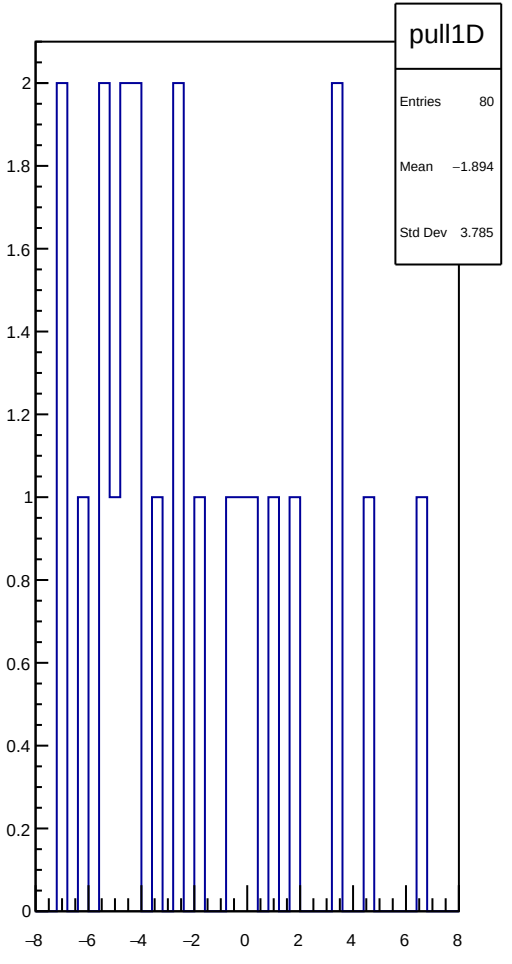

yield_cav4dX_rms vs run
χ² / ndf 6.622e+04 / 79
p0 1.53 ± 0.001253
7
6
5
4
3
2
1

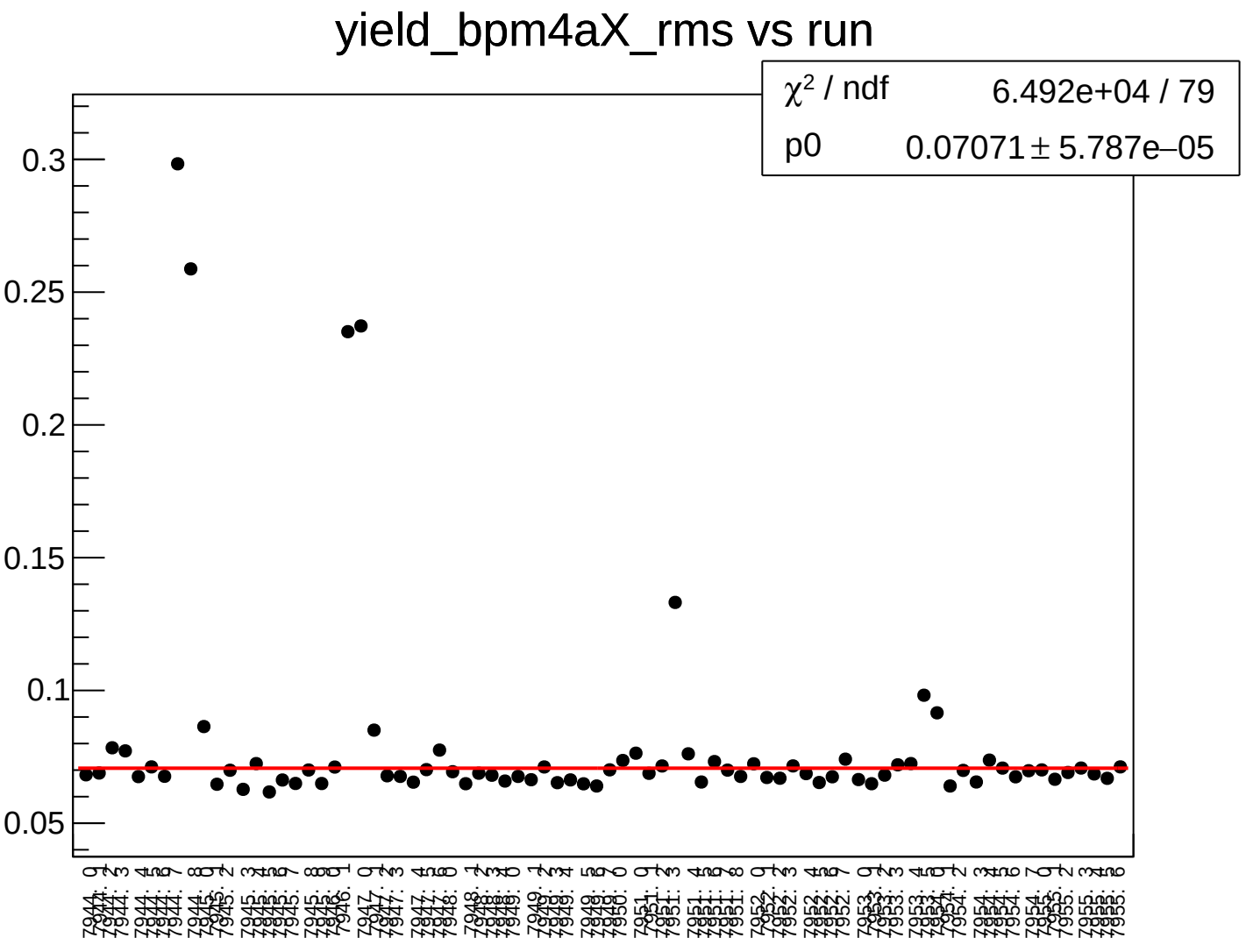

yield_cav4dY_mean vs run
χ² / ndf 1.566e+05 / 79
p0 −29.98 ± 0.0003721
−28.5
−29
−29.5
−30
−30.5
−31
pull
Entries 80
Mean −56.48
Std Dev 120
100
50
0
−50
−100

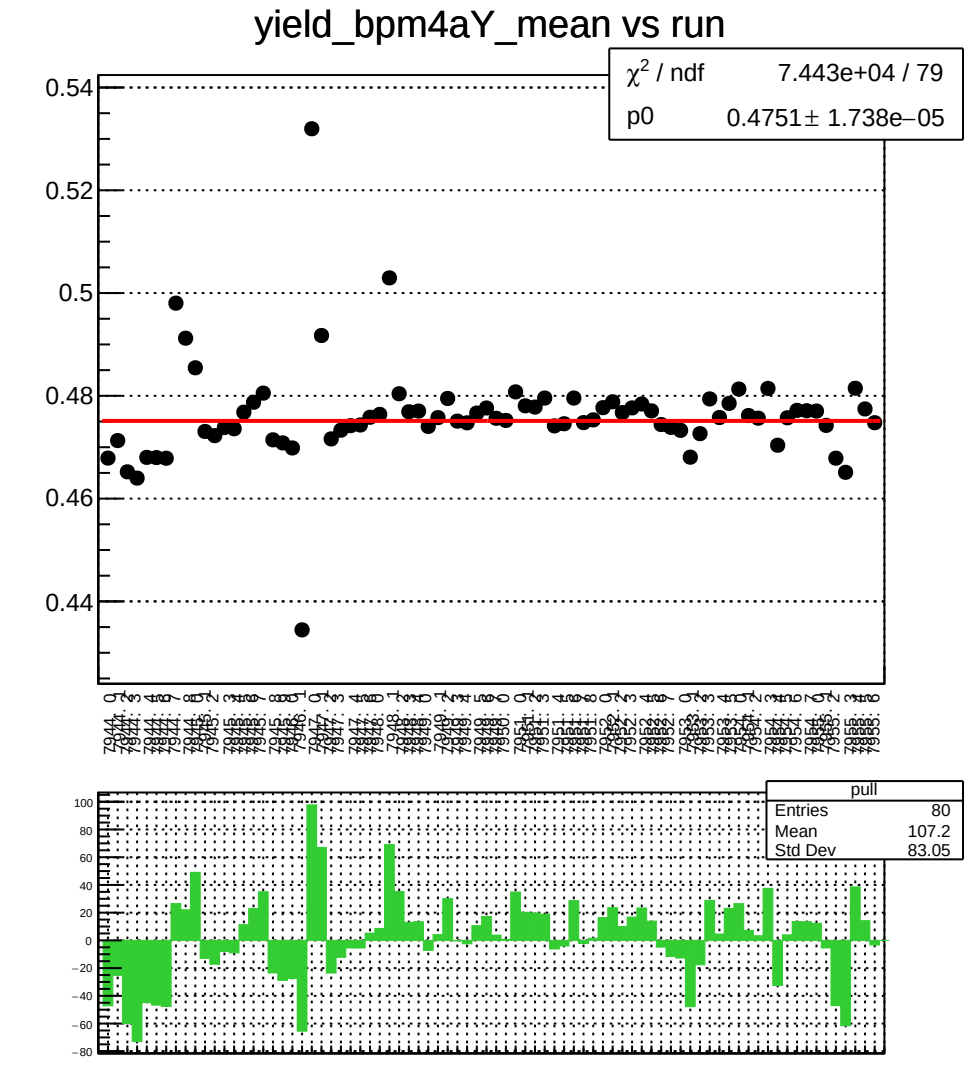

pull1D
Entries 80
Mean 1.842
Std Dev 3.631
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

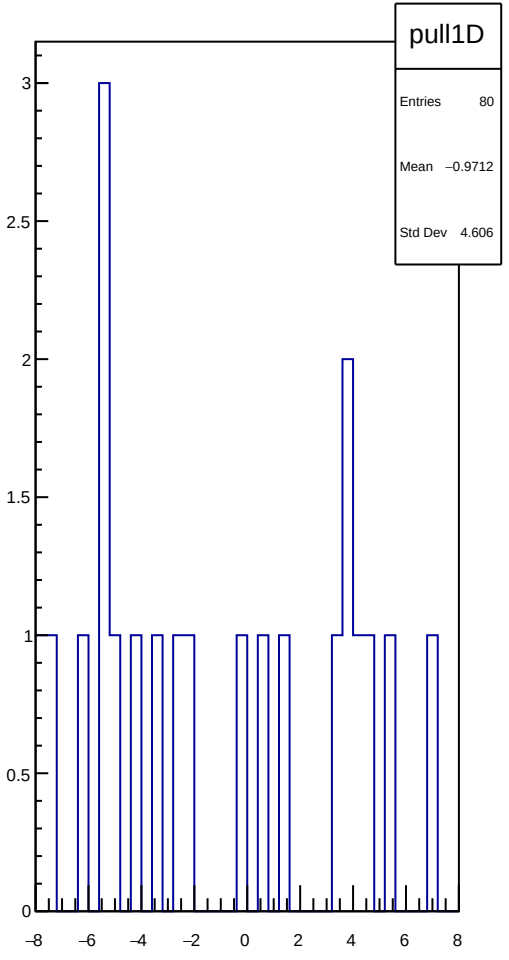

yield_cav4dY_rms vs run
χ² / ndf 8.684e+04 / 79
p0 0.3192 ± 0.0002631
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

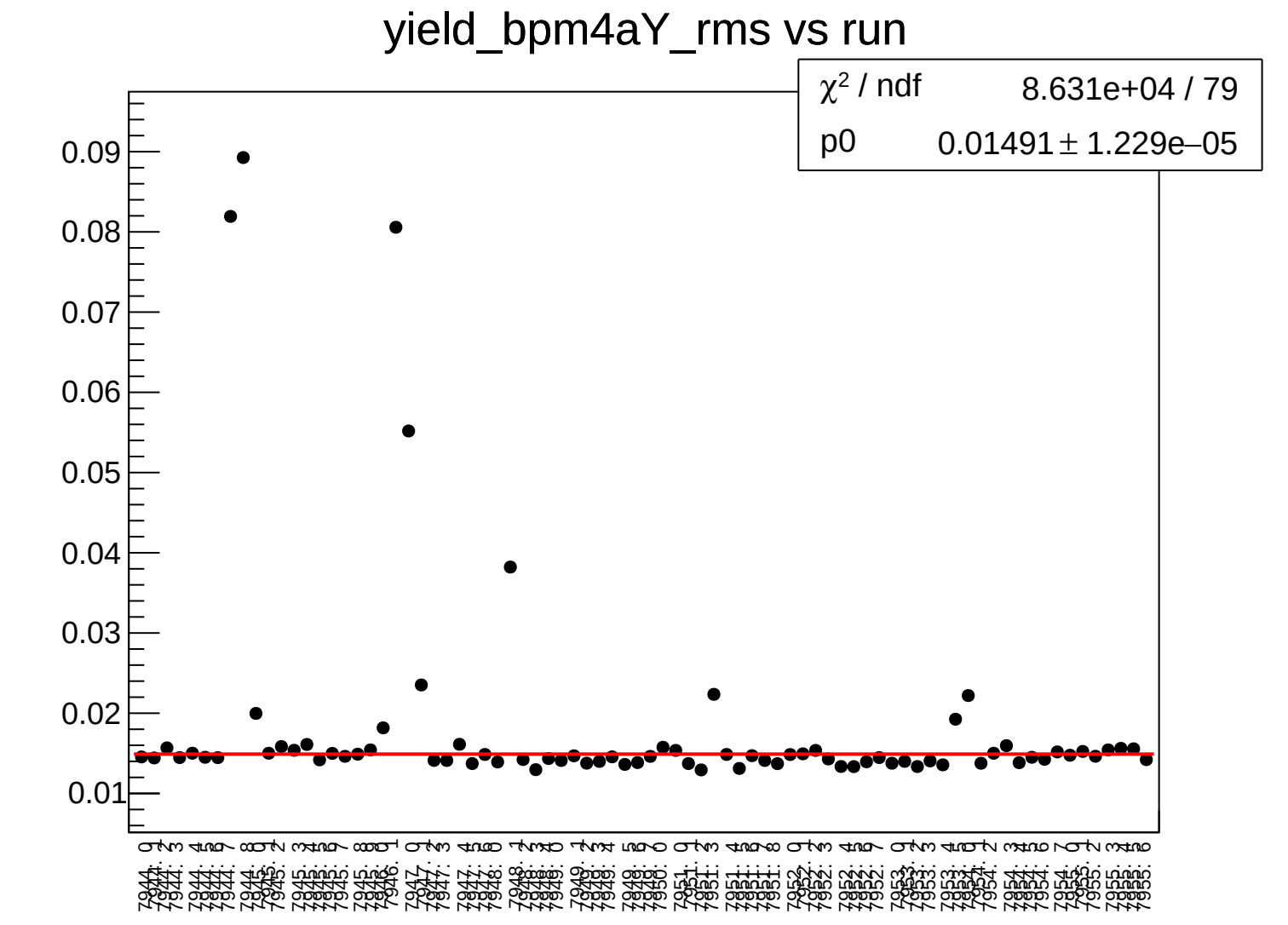

yield_bpm4aX_mean vs run
χ² / ndf 2.896e+04 / 79
p0 −0.5755 ± 8.184e−05
−0.5
−0.55
−0.6
−0.65
−0.7
pull
Entries 80
Mean 97.25
Std Dev 51.52
60
40
20
0
−20
−40
−60

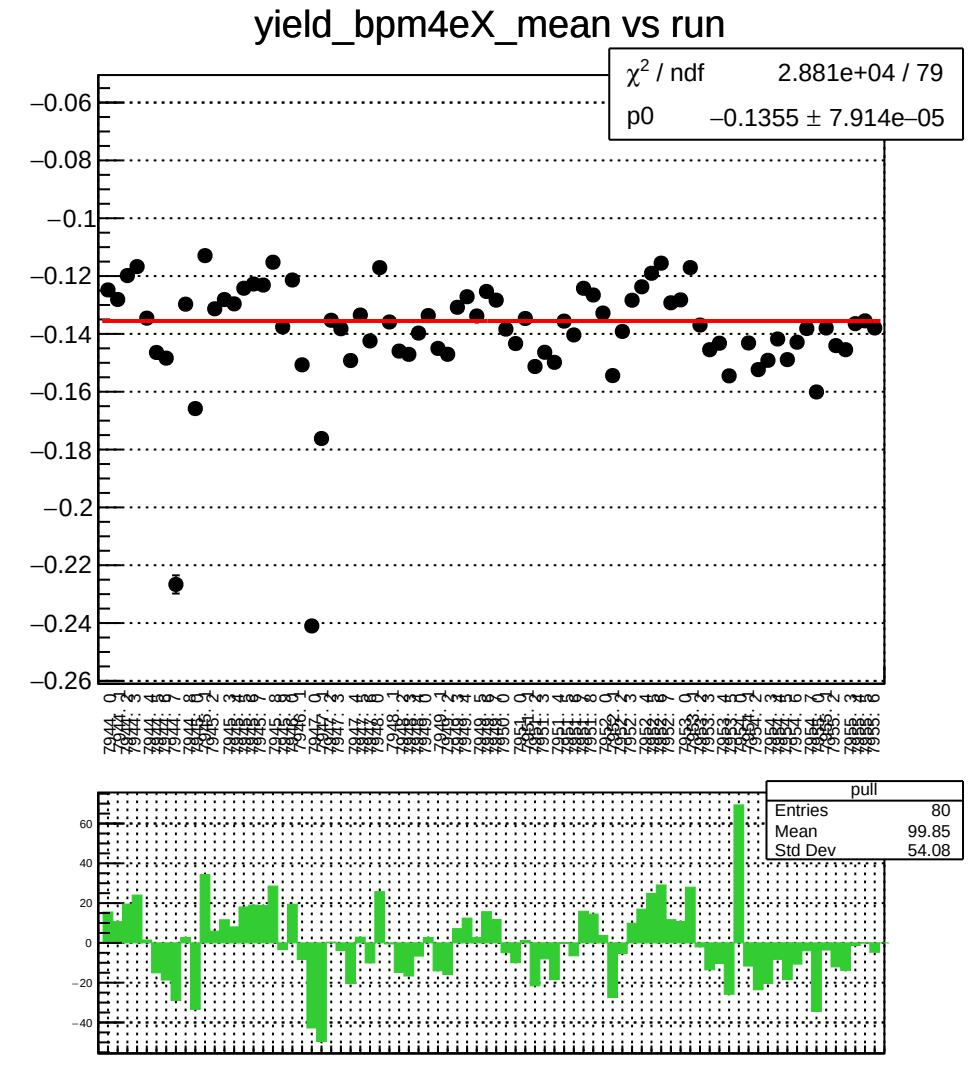

pull1D
Entries 80
Mean −1.894
Std Dev 3.785
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

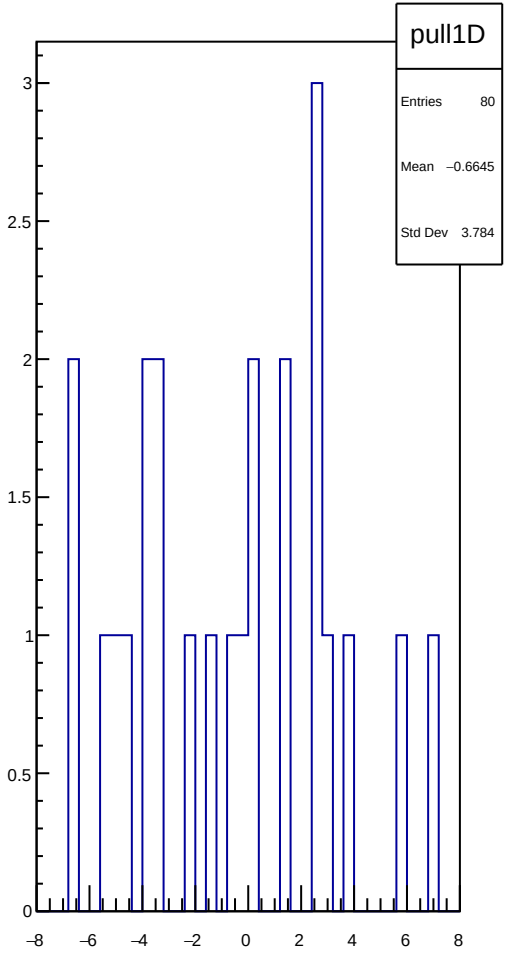

yield_bpm4aX_rms vs run
χ² / ndf 6.492e+04 / 79
p0 0.07071 ± 5.787e–05
0.3
0.25
0.2
0.15
0.1
0.05

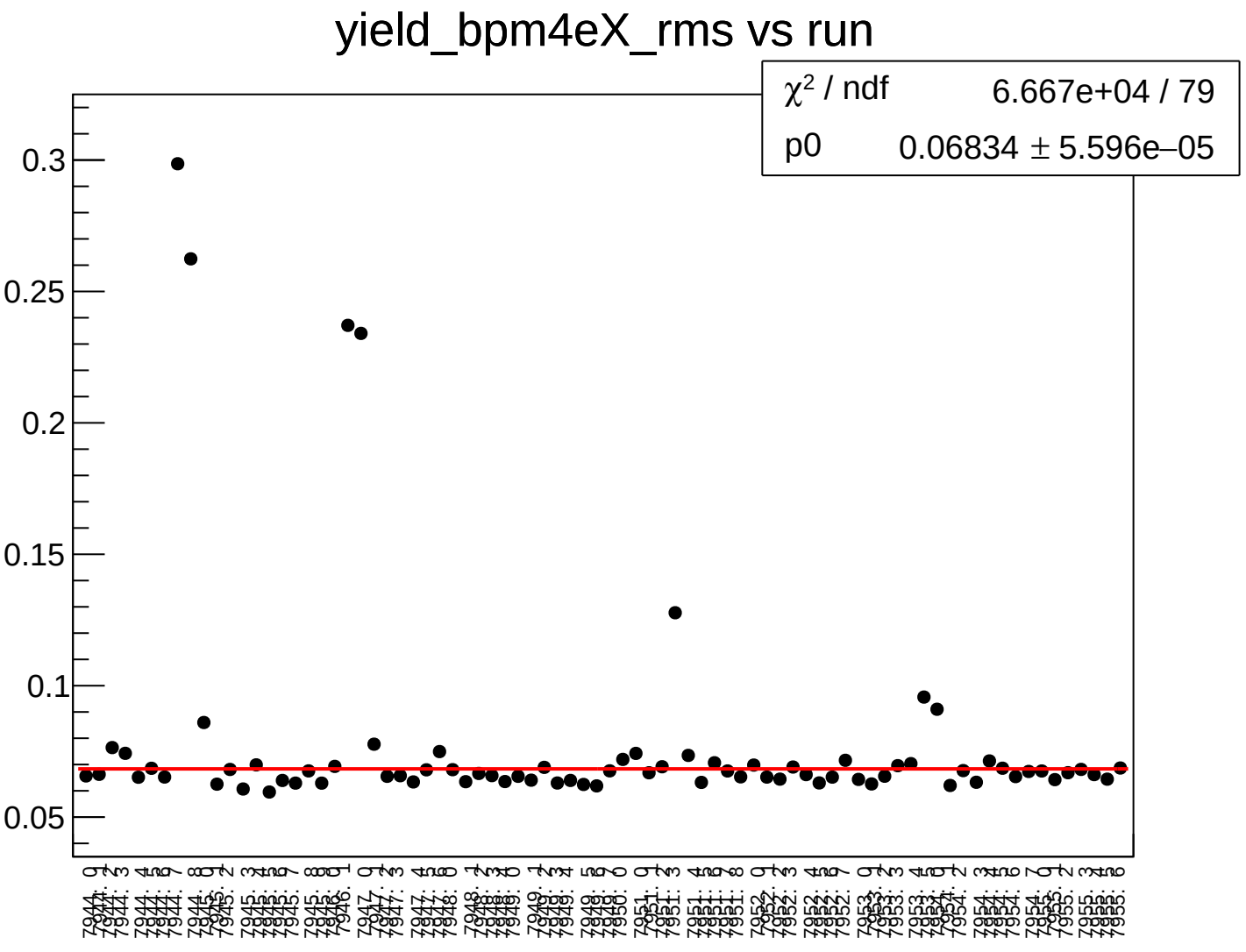

yield_bpm4aY_mean vs run
χ² / ndf 7.443e+04 / 79
p0 0.4751 ± 1.738e−05
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 80
Mean 107.2
Std Dev 83.05
100
80
60
40
20
0
−20
−40
−60
−80

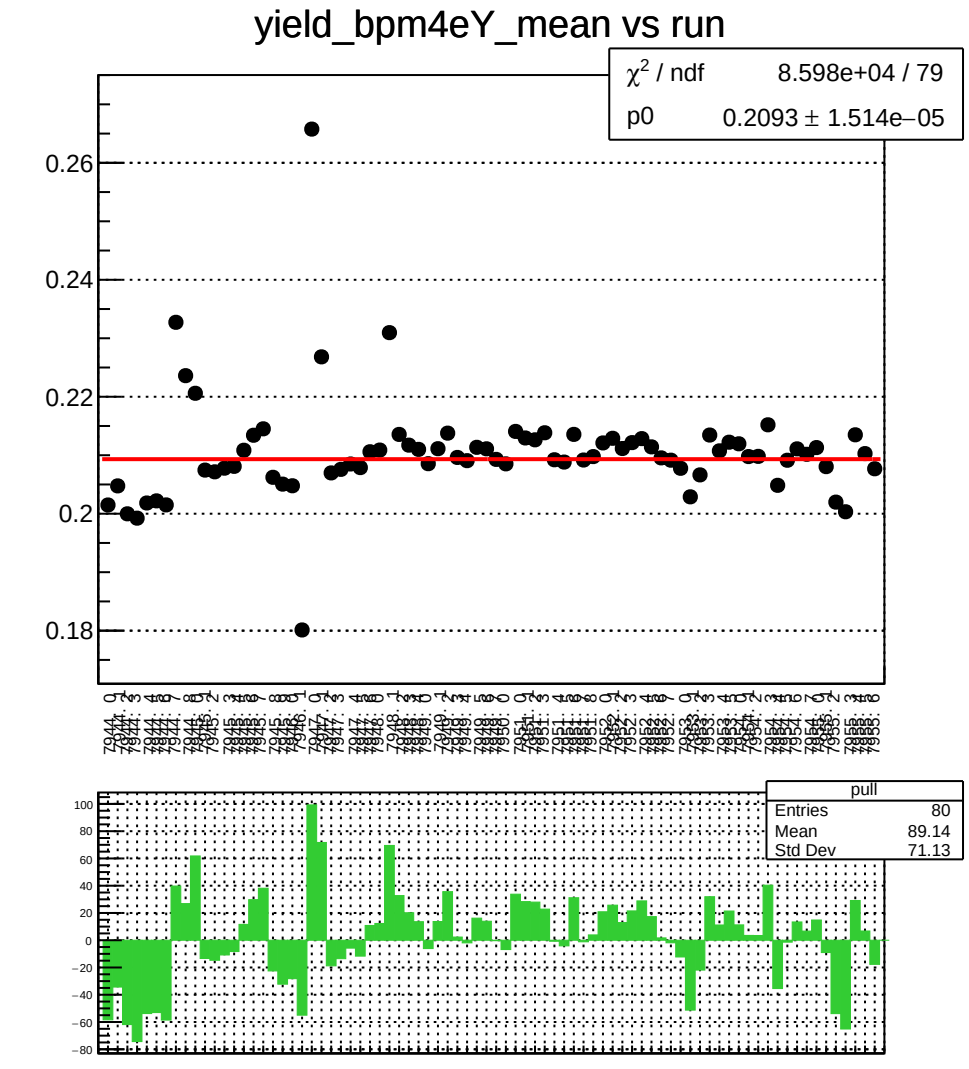

pull1D
Entries 80
Mean −0.9712
Std Dev 4.606
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

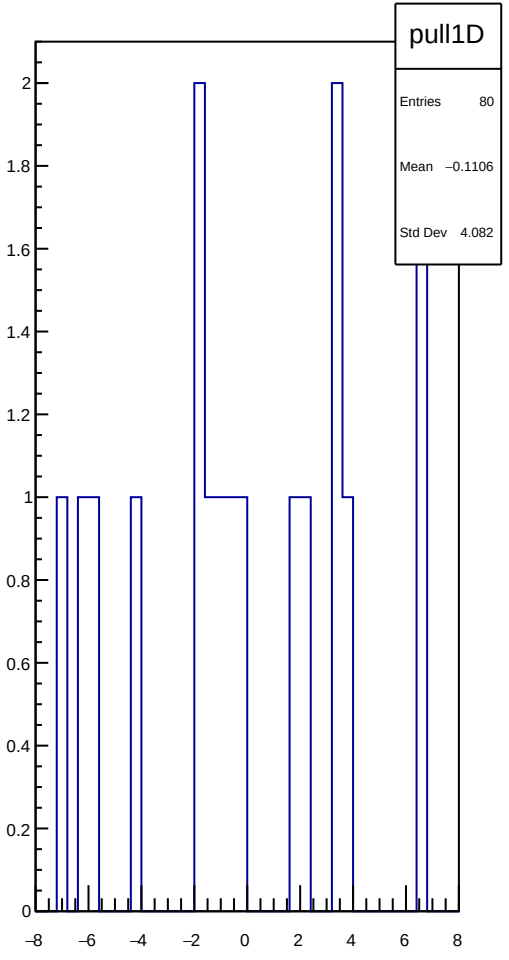

yield_bpm4aY_rms vs run
χ^2 / ndf 8.631e+04 / 79
p0 0.01491 ± 1.229e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

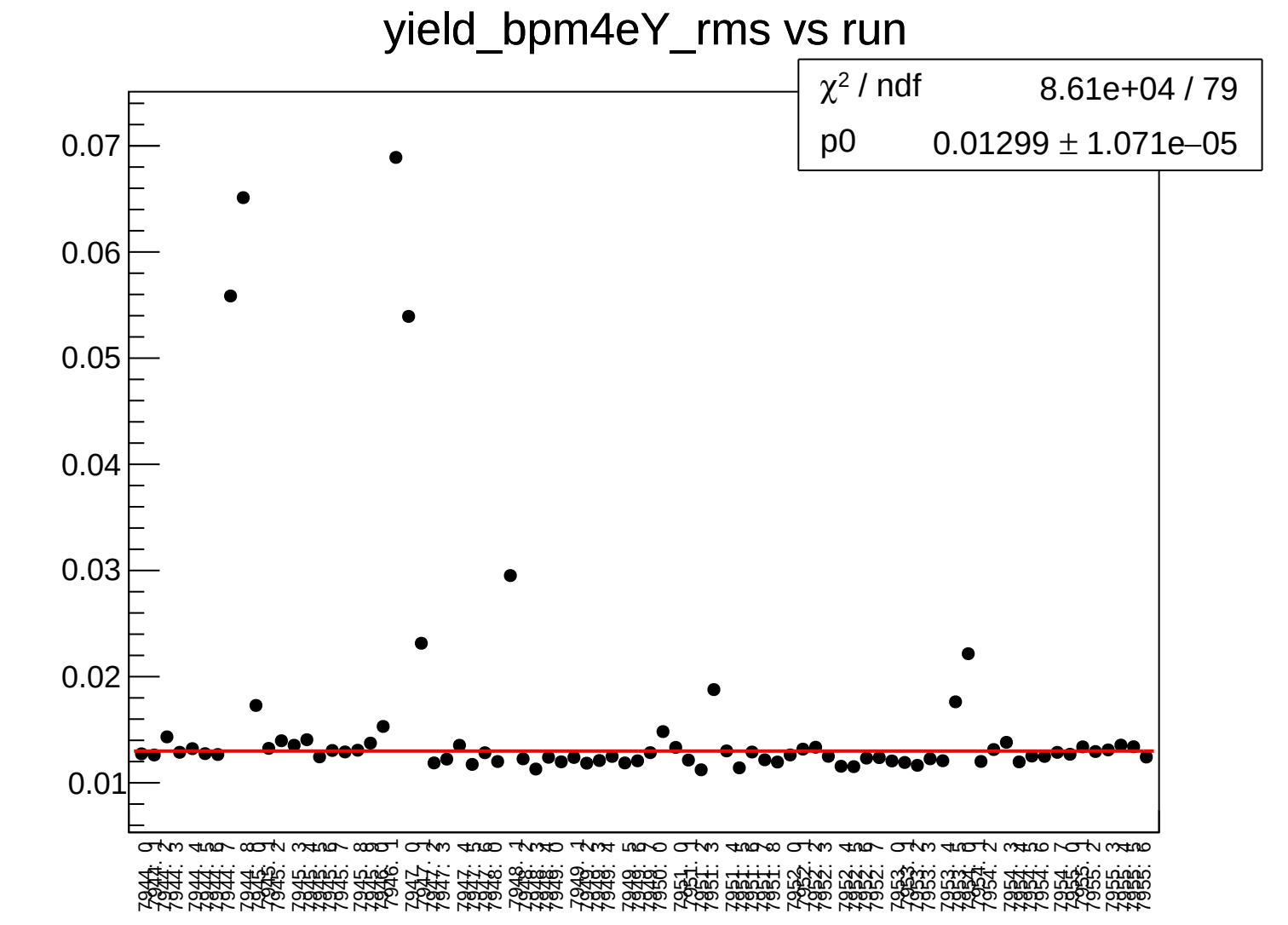

yield_bpm4eX_mean vs run
χ² / ndf 2.881e+04 / 79
p0 −0.1355 ± 7.914e−05
pull
Entries 80
Mean 99.85
Std Dev 54.08

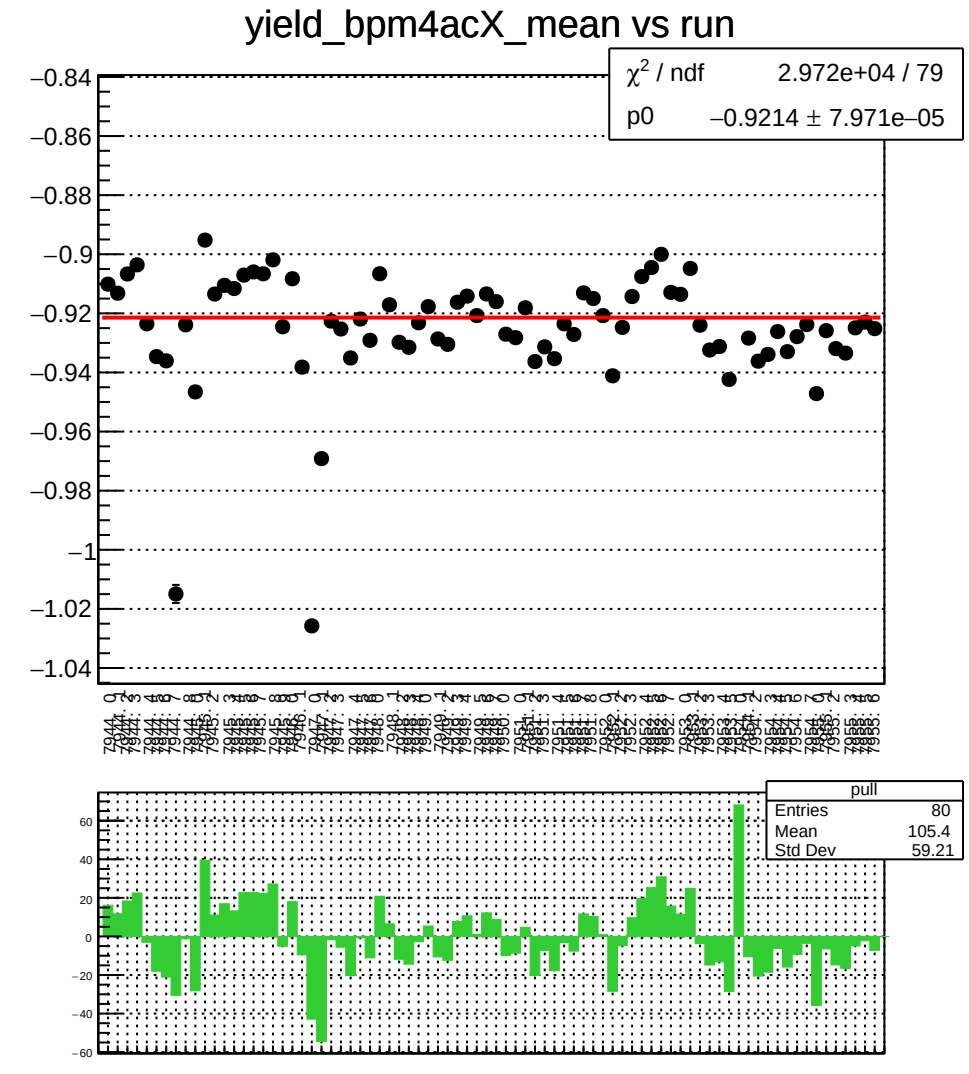

pull1D
Entries 80
Mean −0.6645
Std Dev 3.784

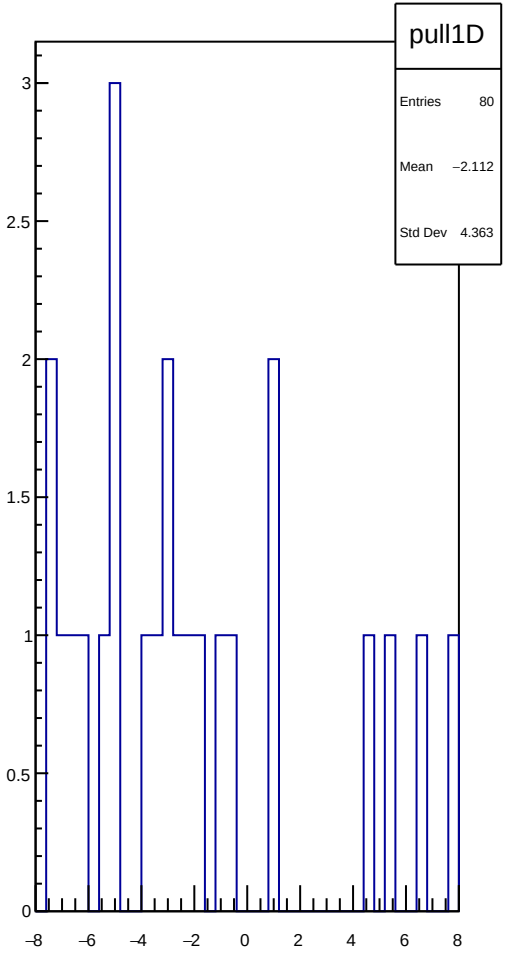

yield_bpm4eX_rms vs run
χ² / ndf 6.667e+04 / 79
p0 0.06834 ± 5.596e–05
0.3
0.25
0.2
0.15
0.1
0.05

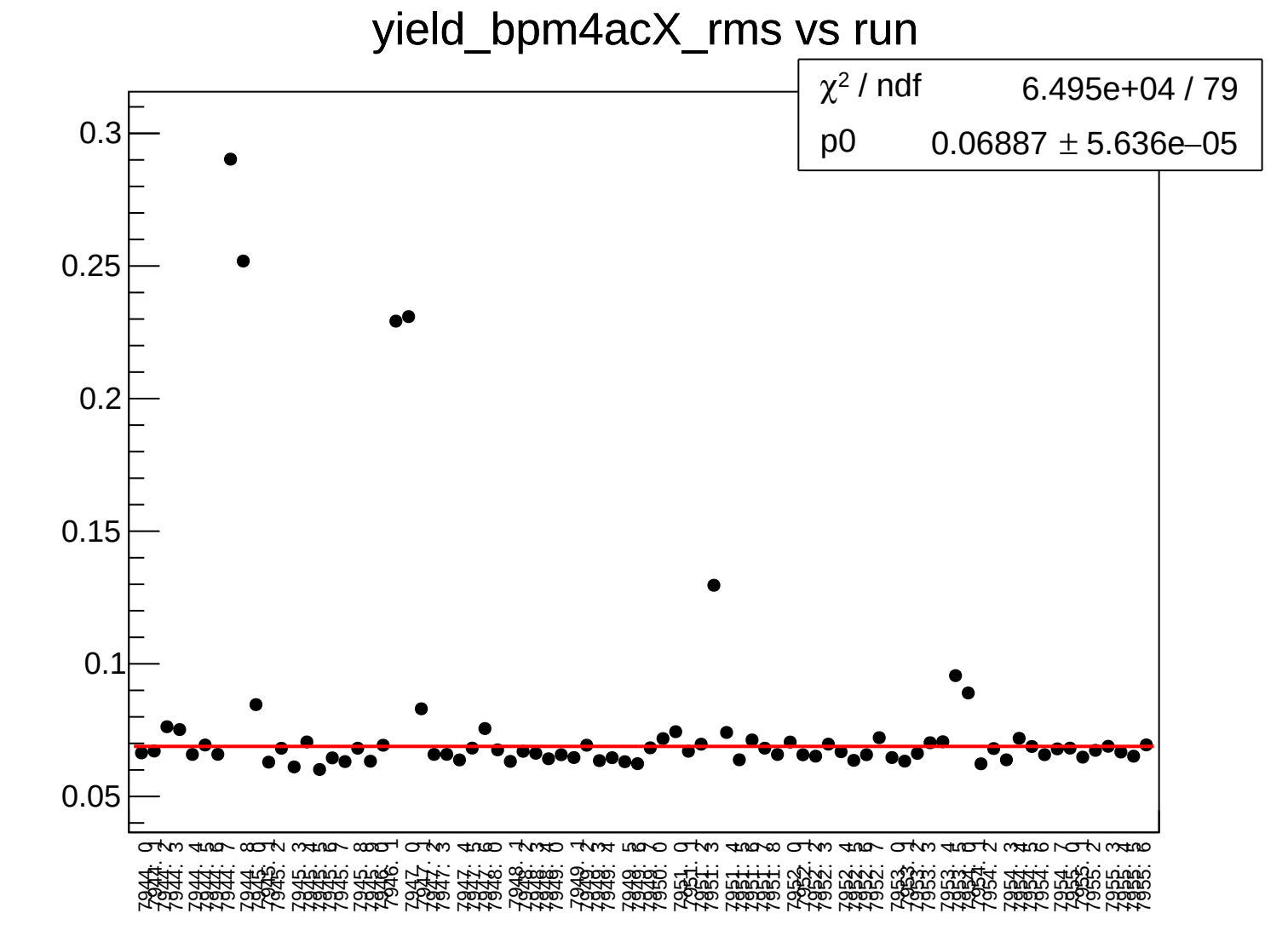

yield_bpm4eY_mean vs run
χ² / ndf 8.598e+04 / 79
p0 0.2093 ± 1.514e−05
0.26
0.24
0.22
0.2
0.18
pull
Entries 80
Mean 89.14
Std Dev 71.13
100
80
60
40
20
0
−20
−40
−60
−80

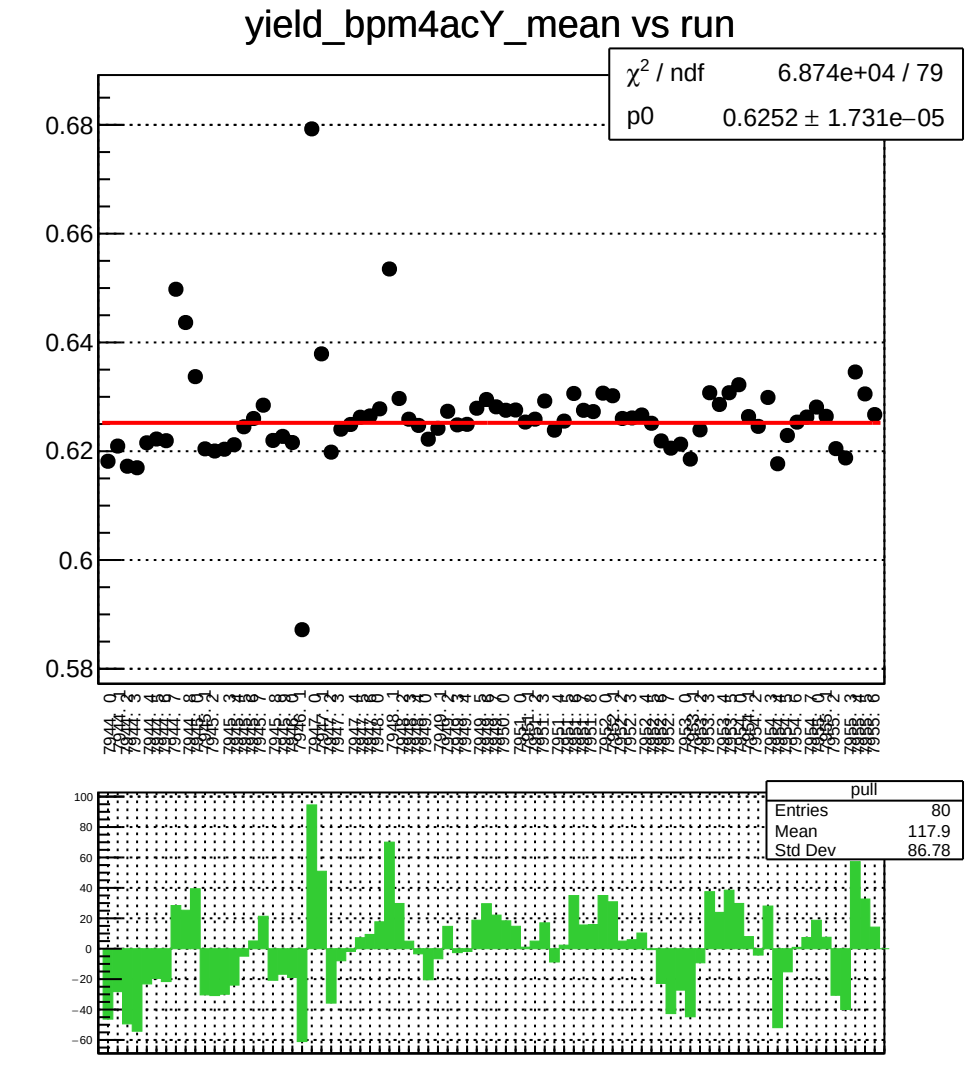

pull1D
Entries 80
Mean −0.1106
Std Dev 4.082
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

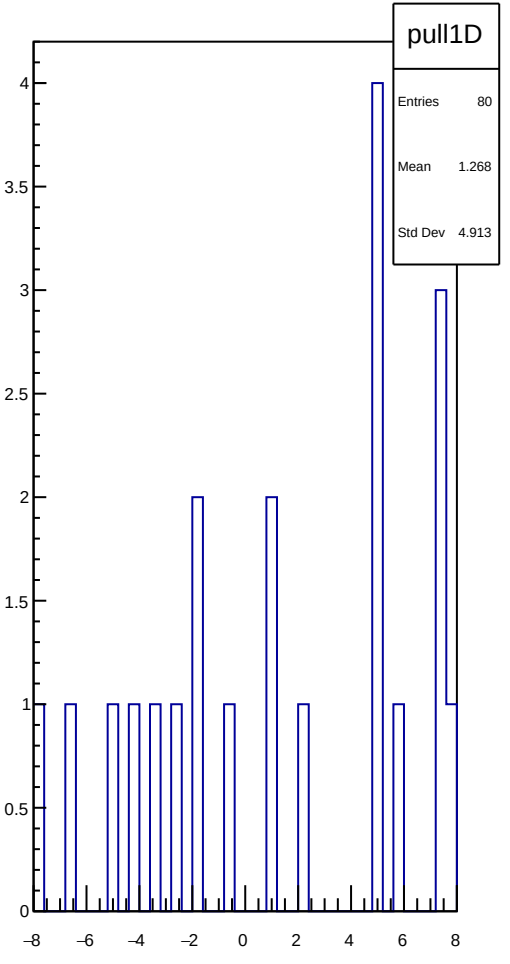

yield_bpm4eY_rms vs run
χ² / ndf 8.61e+04 / 79
p0 0.01299 ± 1.071e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

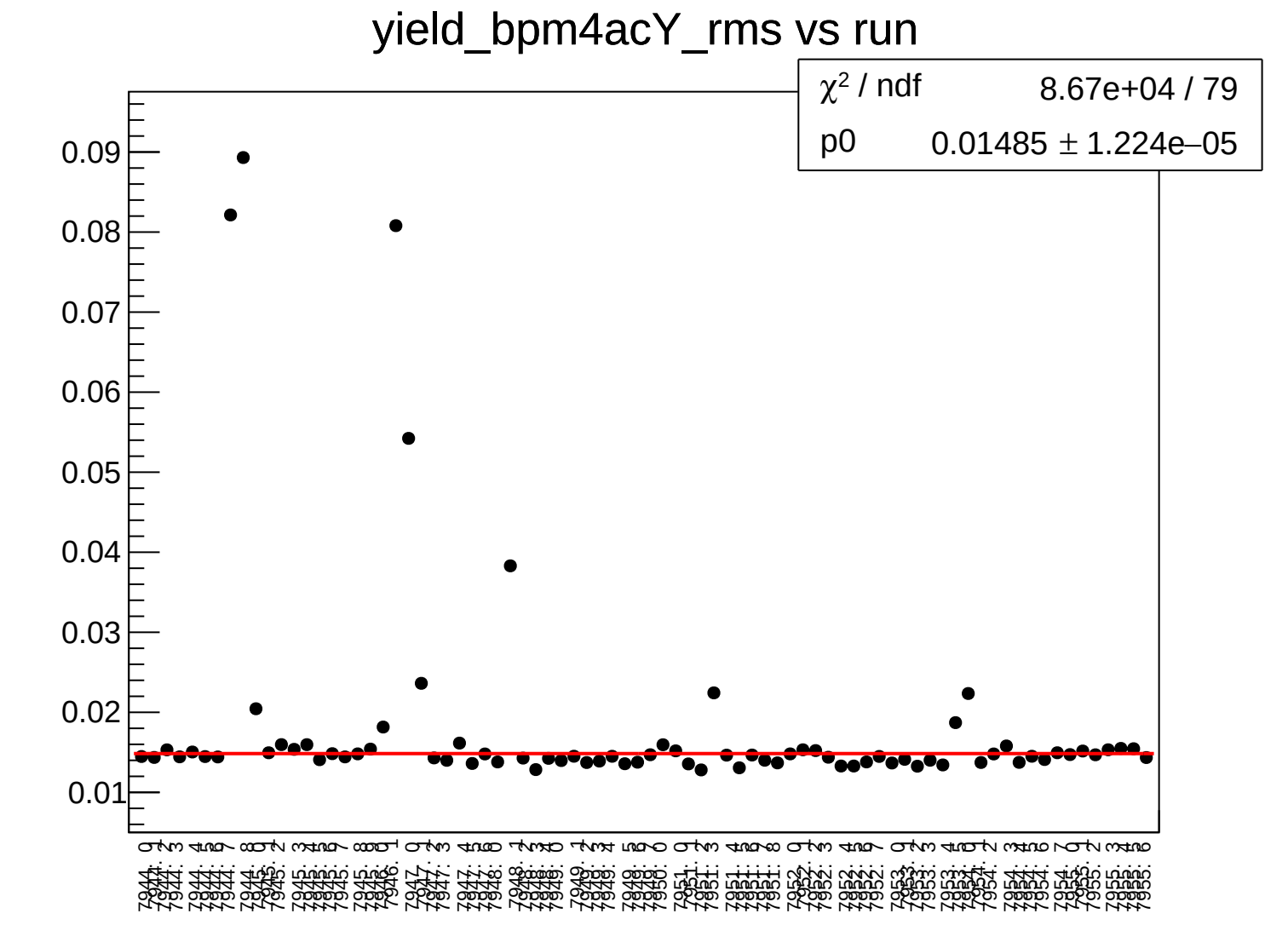

yield_bpm4acX_mean vs run
χ² / ndf 2.972e+04 / 79
p0 −0.9214 ± 7.971e−05
pull
Entries 80
Mean 105.4
Std Dev 59.21

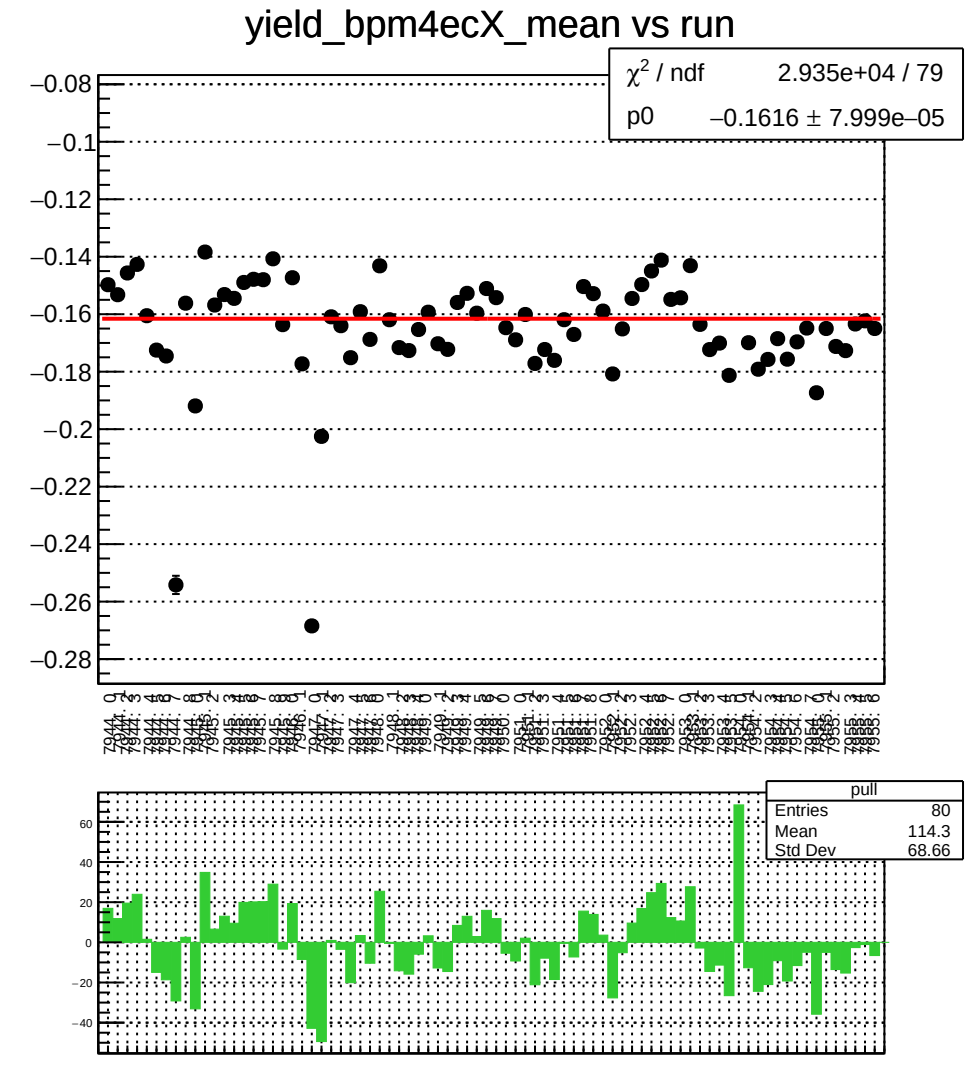

pull1D
Entries 80
Mean −2.112
Std Dev 4.363

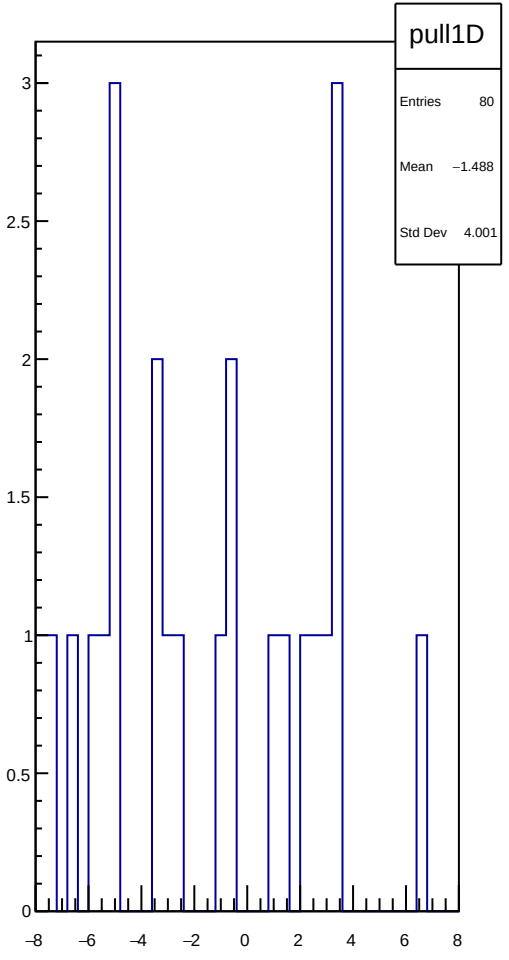

yield_bpm4acX_rms vs run
χ² / ndf 6.495e+04 / 79
p0 0.06887 ± 5.636e–05
0.3
0.25
0.2
0.15
0.1
0.05

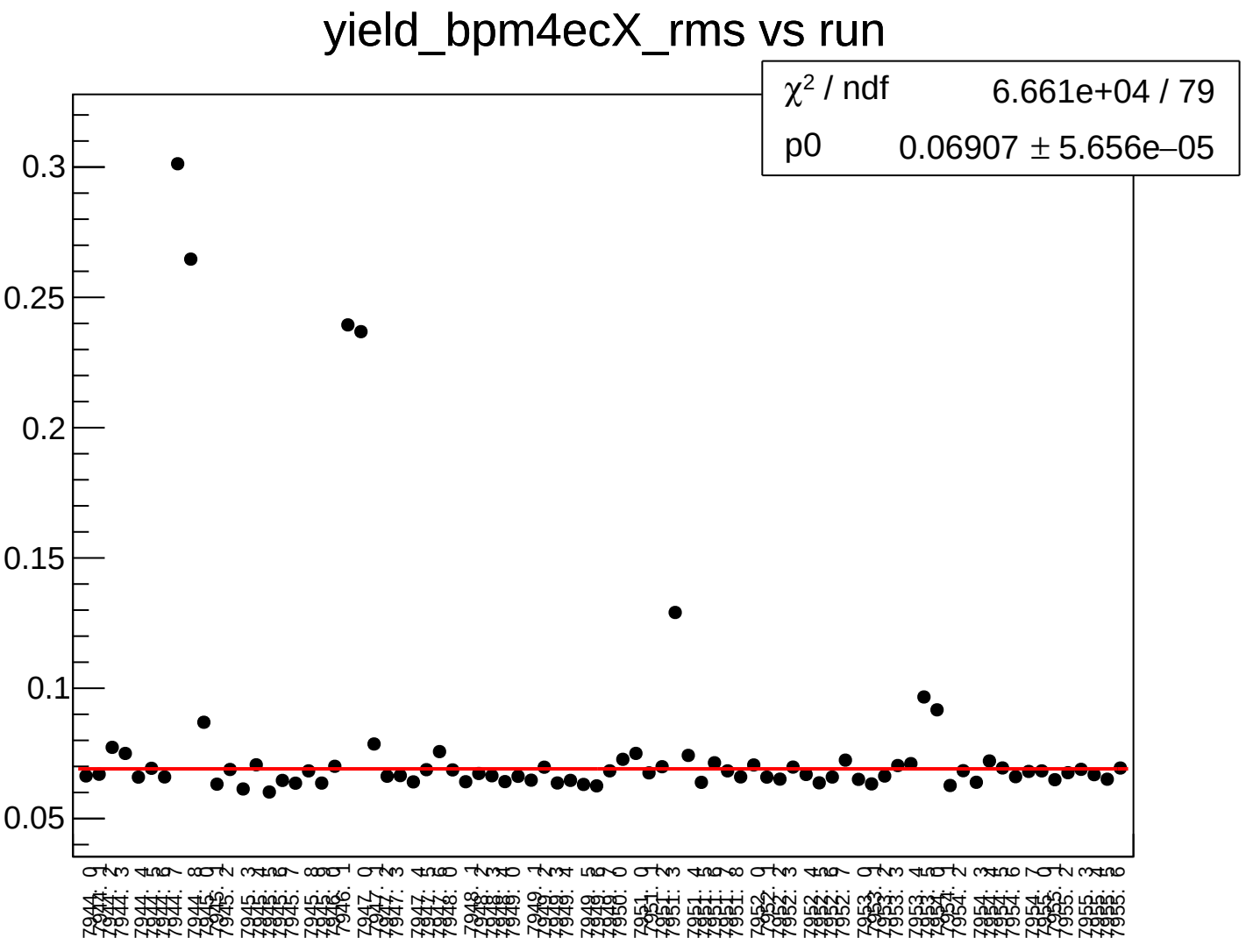

yield_bpm4acY_mean vs run
χ² / ndf 6.874e+04 / 79
p0 0.6252 ± 1.731e−05
0.68
0.66
0.64
0.62
0.6
0.58
pull
Entries 80
Mean 117.9
Std Dev 86.78
100
80
60
40
20
0
−20
−40
−60

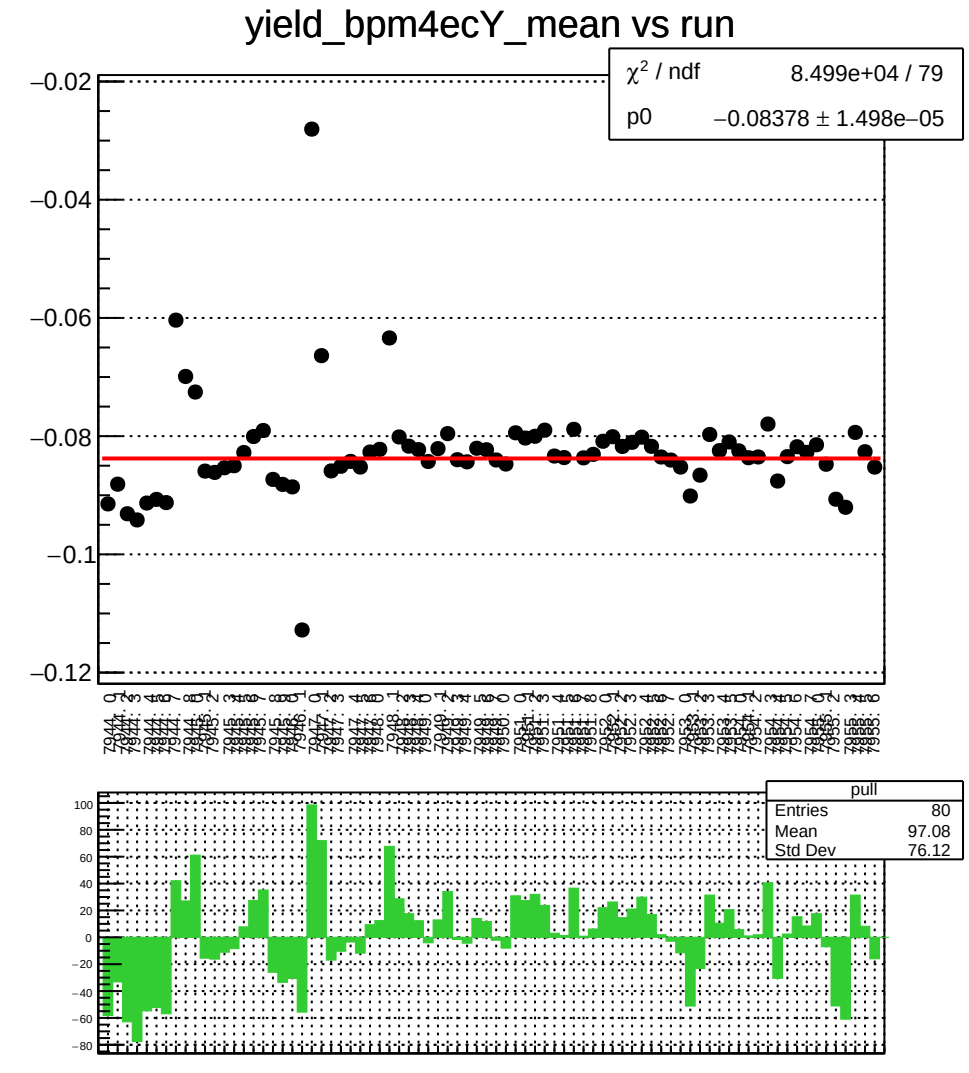

pull1D
Entries 80
Mean 1.268
Std Dev 4.913
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

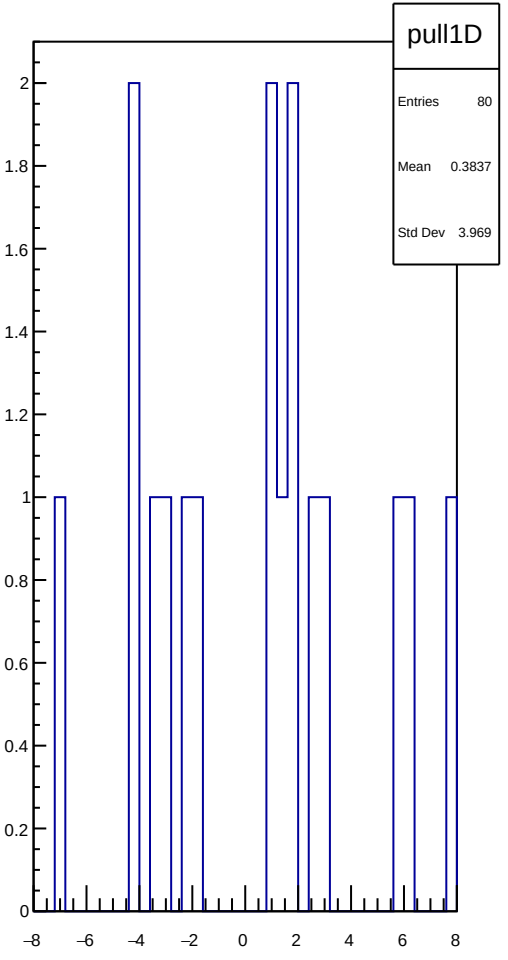

yield_bpm4acY_rms vs run
χ² / ndf 8.67e+04 / 79
p0 0.01485 ± 1.224e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

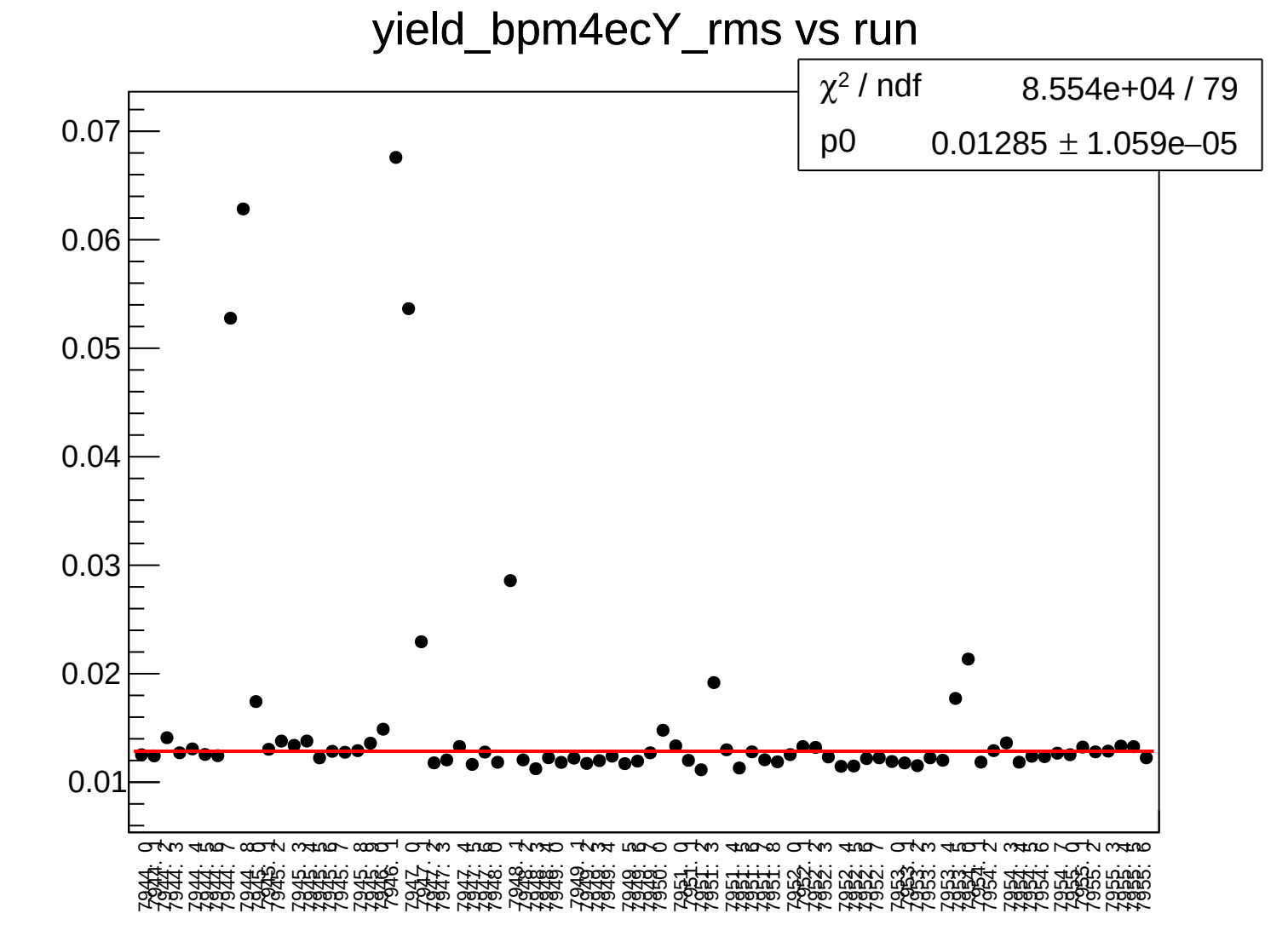

yield_bpm4ecX_mean vs run
χ² / ndf 2.935e+04 / 79
p0 −0.1616 ± 7.999e−05
pull
Entries 80
Mean 114.3
Std Dev 68.66

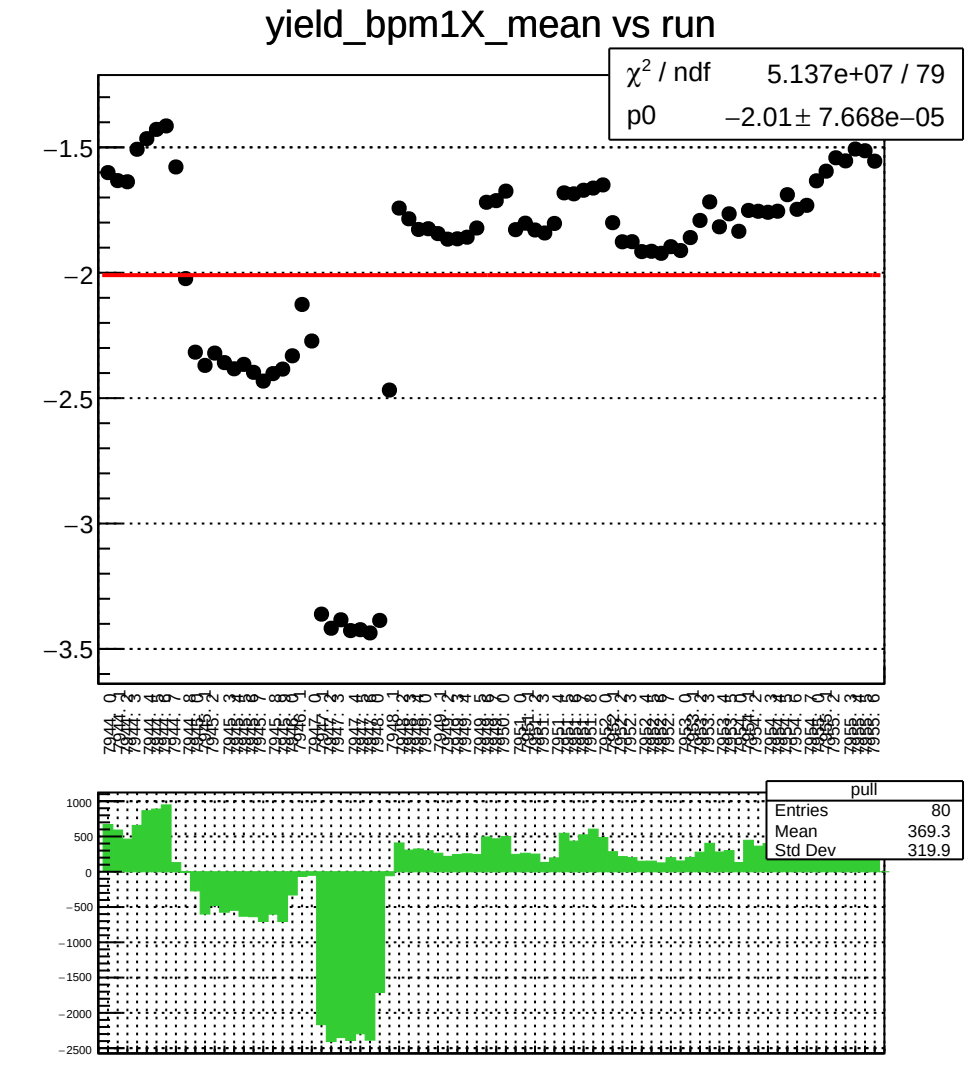

pull1D
Entries 80
Mean −1.488
Std Dev 4.001

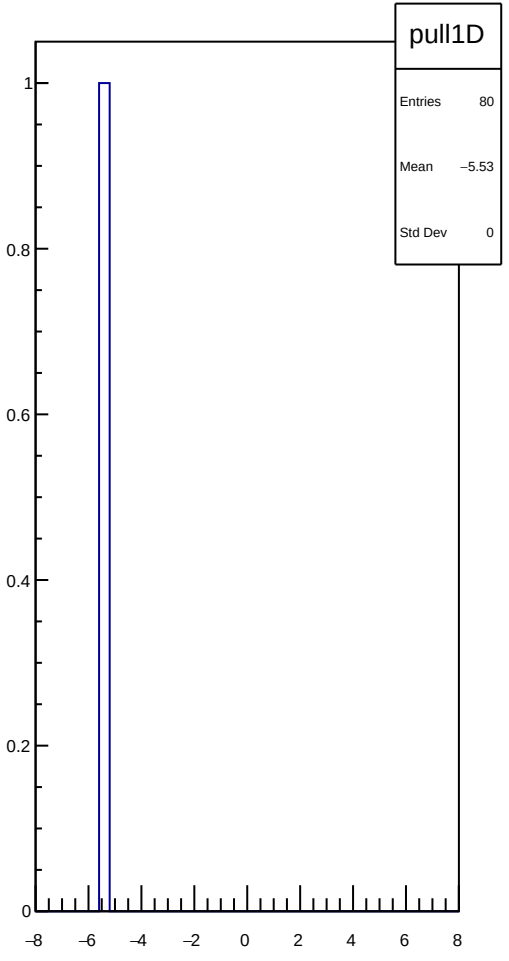

yield_bpm4ecX_rms vs run
χ² / ndf 6.661e+04 / 79
p0 0.06907 ± 5.656e–05
0.3
0.25
0.2
0.15
0.1
0.05

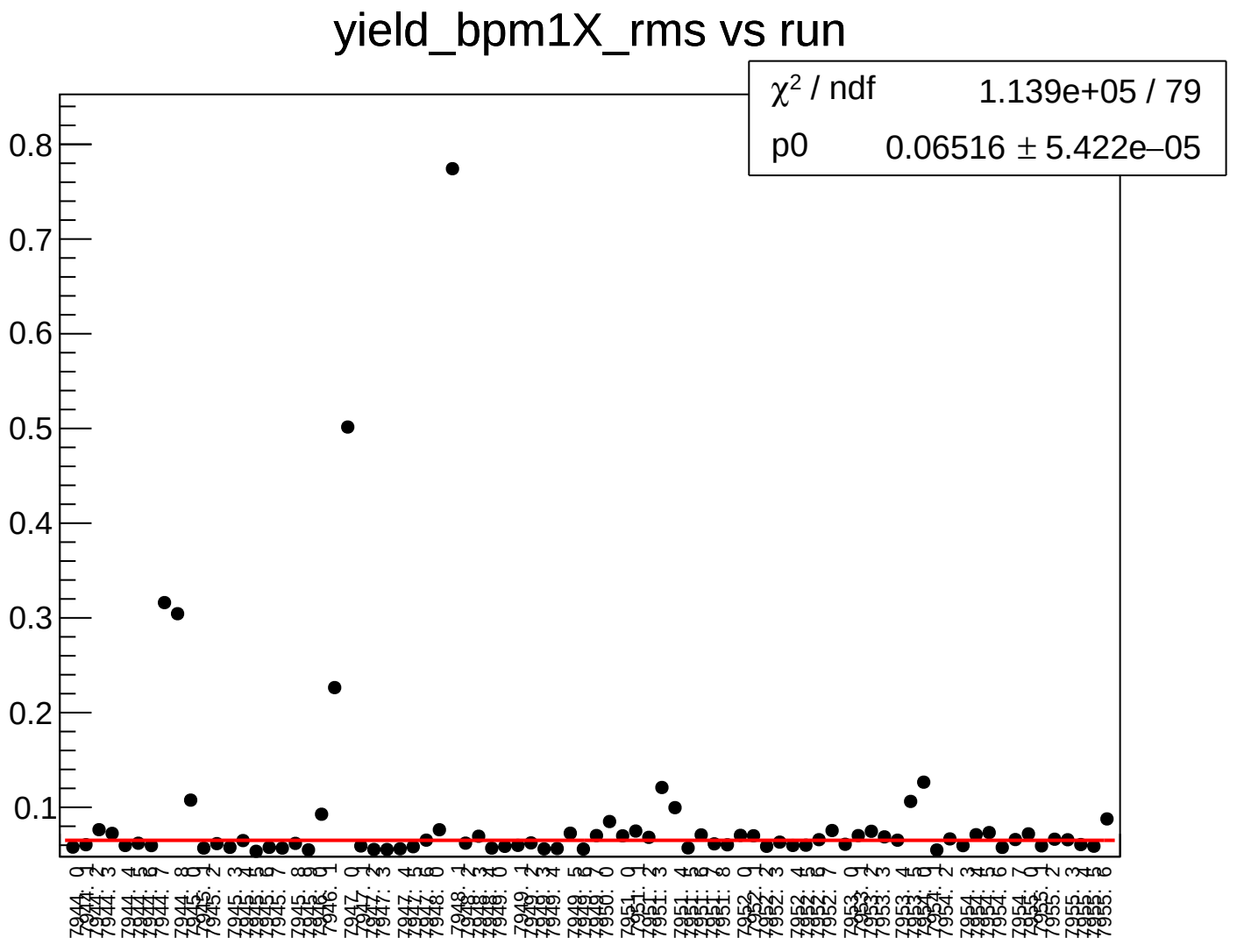

yield_bpm4ecY_mean vs run
χ² / ndf 8.499e+04 / 79
p0 −0.08378 ± 1.498e−05
pull
Entries 80
Mean 97.08
Std Dev 76.12

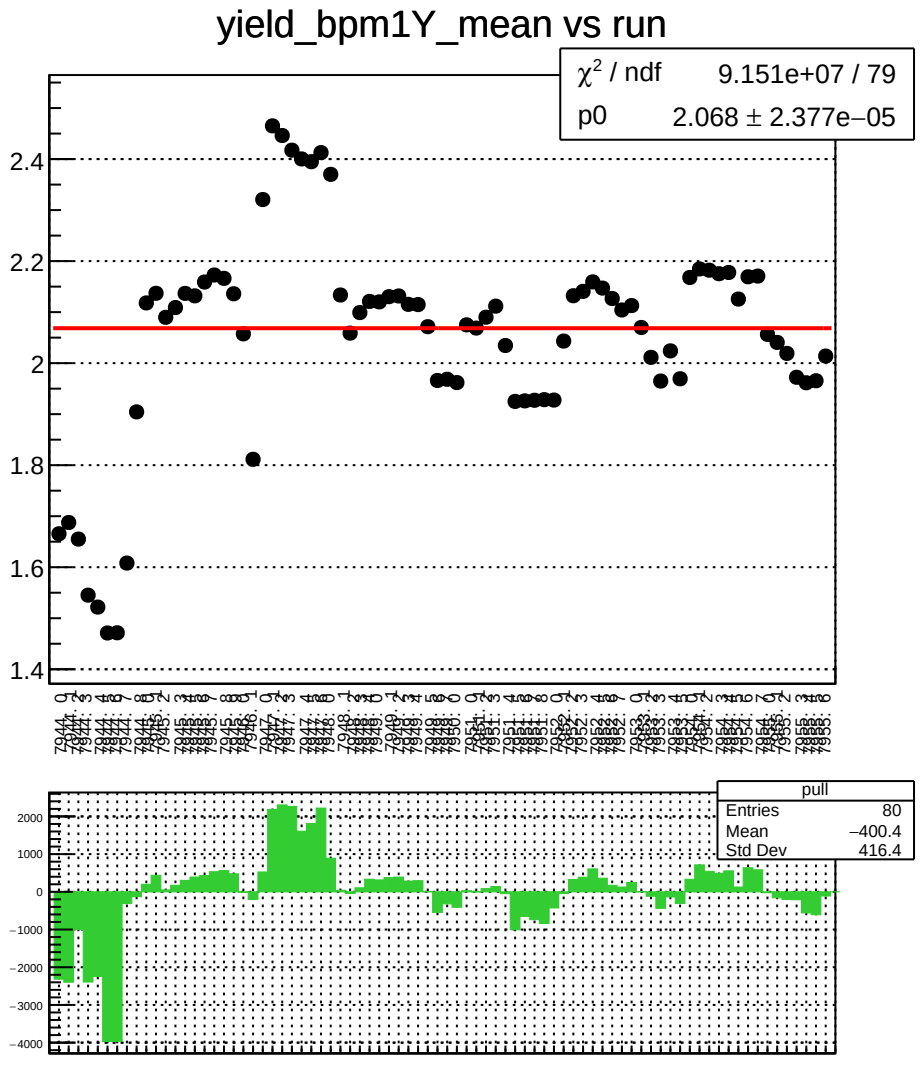

pull1D
Entries 80
Mean 0.3837
Std Dev 3.969

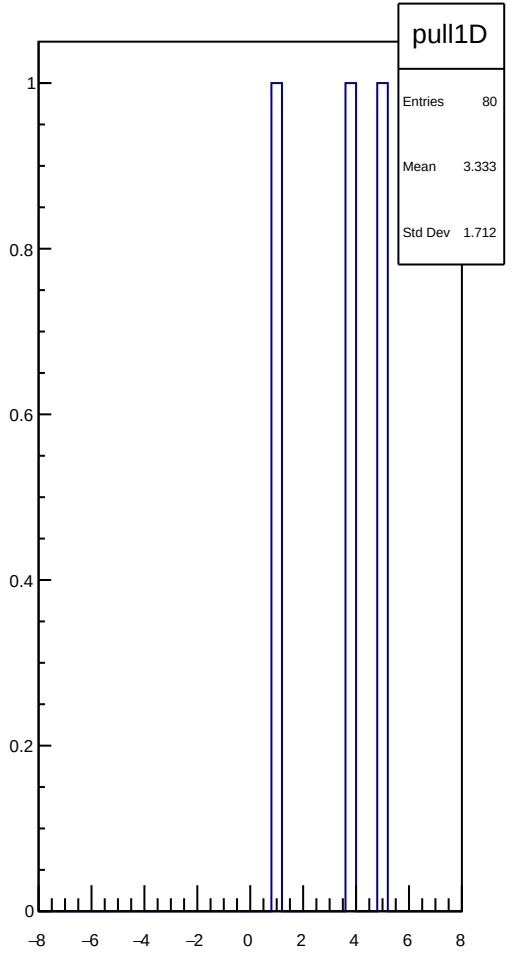

yield_bpm4ecY_rms vs run
χ² / ndf 8.554e+04 / 79
p0 0.01285 ± 1.059e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

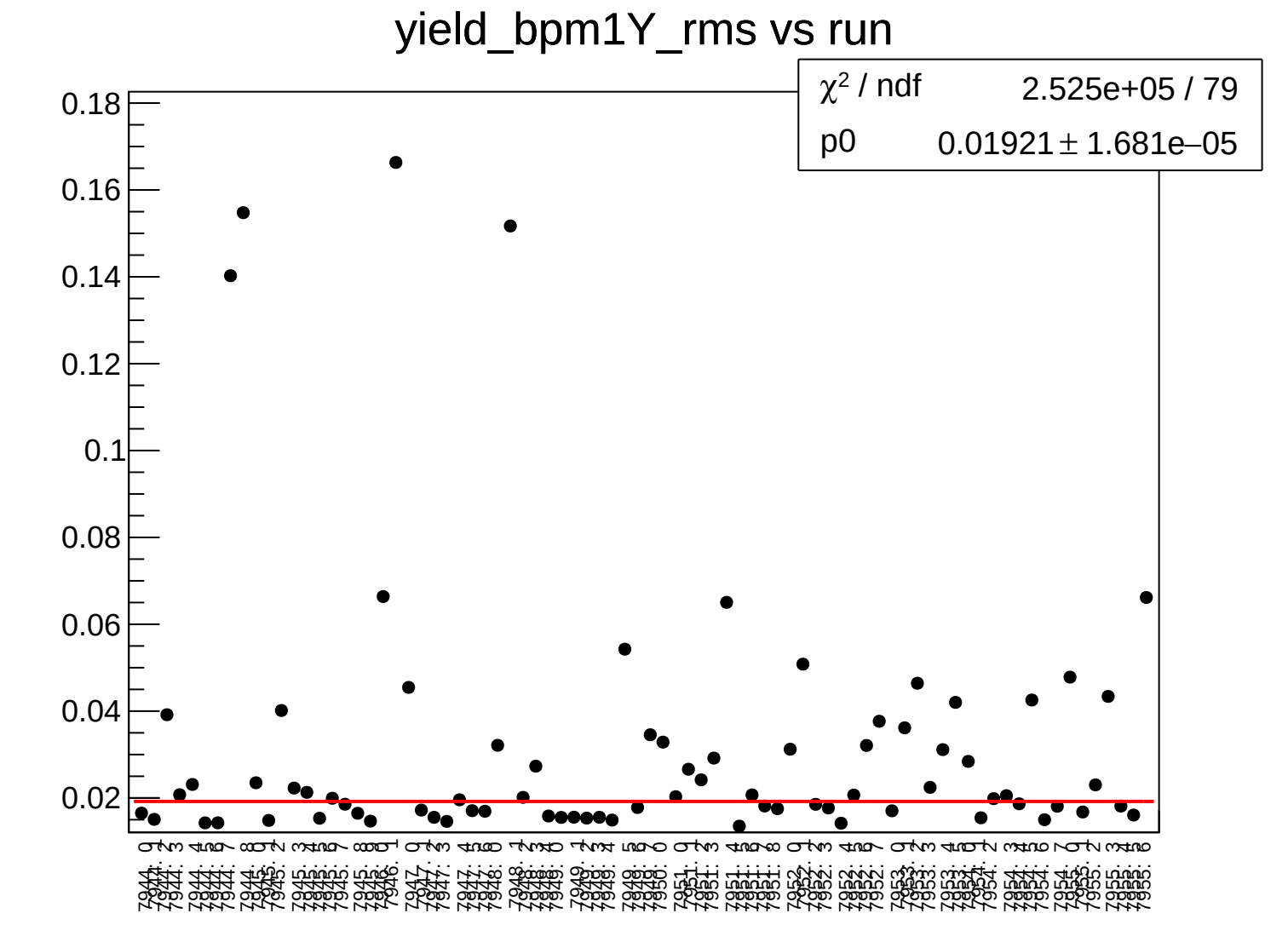

yield_bpm1X_mean vs run
χ² / ndf 5.137e+07 / 79
p0 −2.01 ± 7.668e−05
−1.5
−2
−2.5
−3
−3.5
pull
Entries 80
Mean 369.3
Std Dev 319.9
1000
500
0
−500
−1000
−1500
−2000
−2500

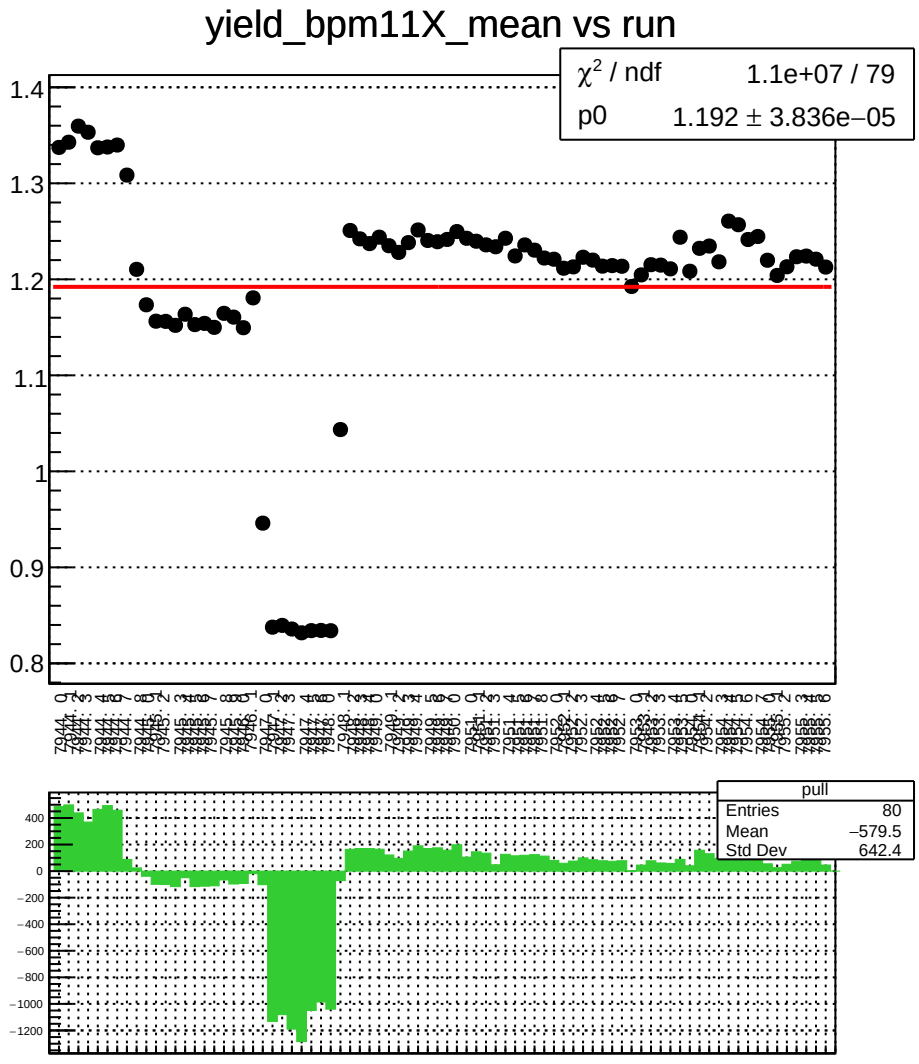

pull1D
Entries 80
Mean −5.53
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

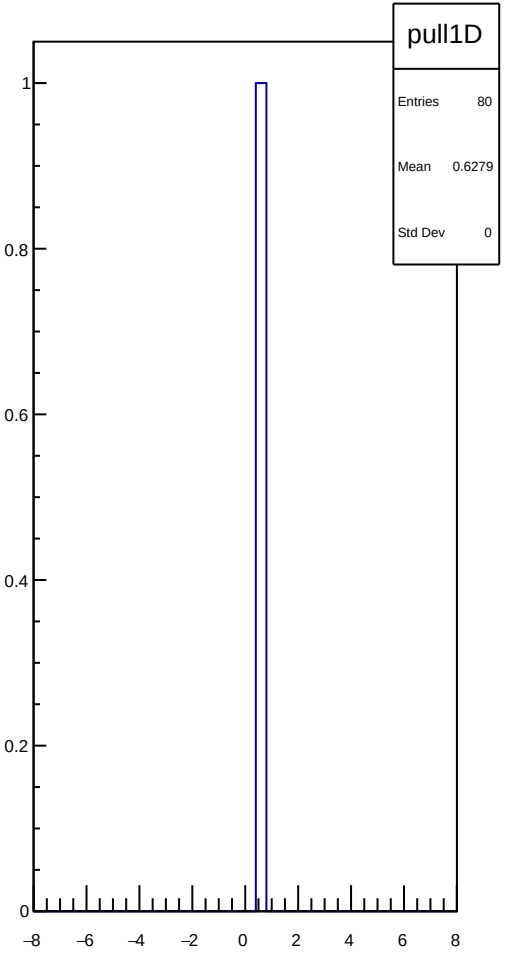

yield_bpm1X_rms vs run
χ² / ndf 1.139e+05 / 79
p0 0.06516 ± 5.422e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

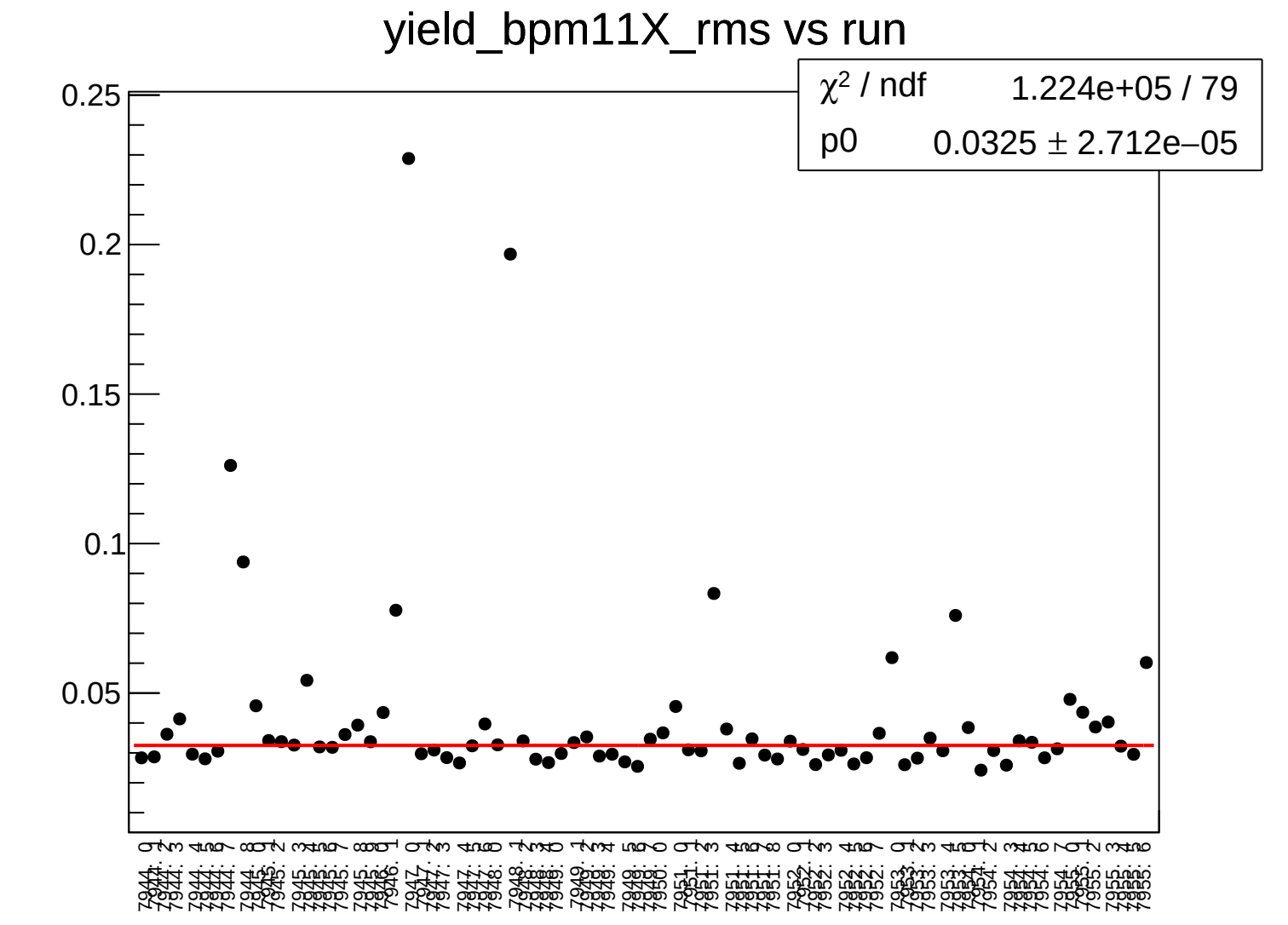

yield_bpm1Y_mean vs run
χ² / ndf 9.151e+07 / 79
p0 2.068 ± 2.377e−05
pull
Entries 80
Mean −400.4
Std Dev 416.4

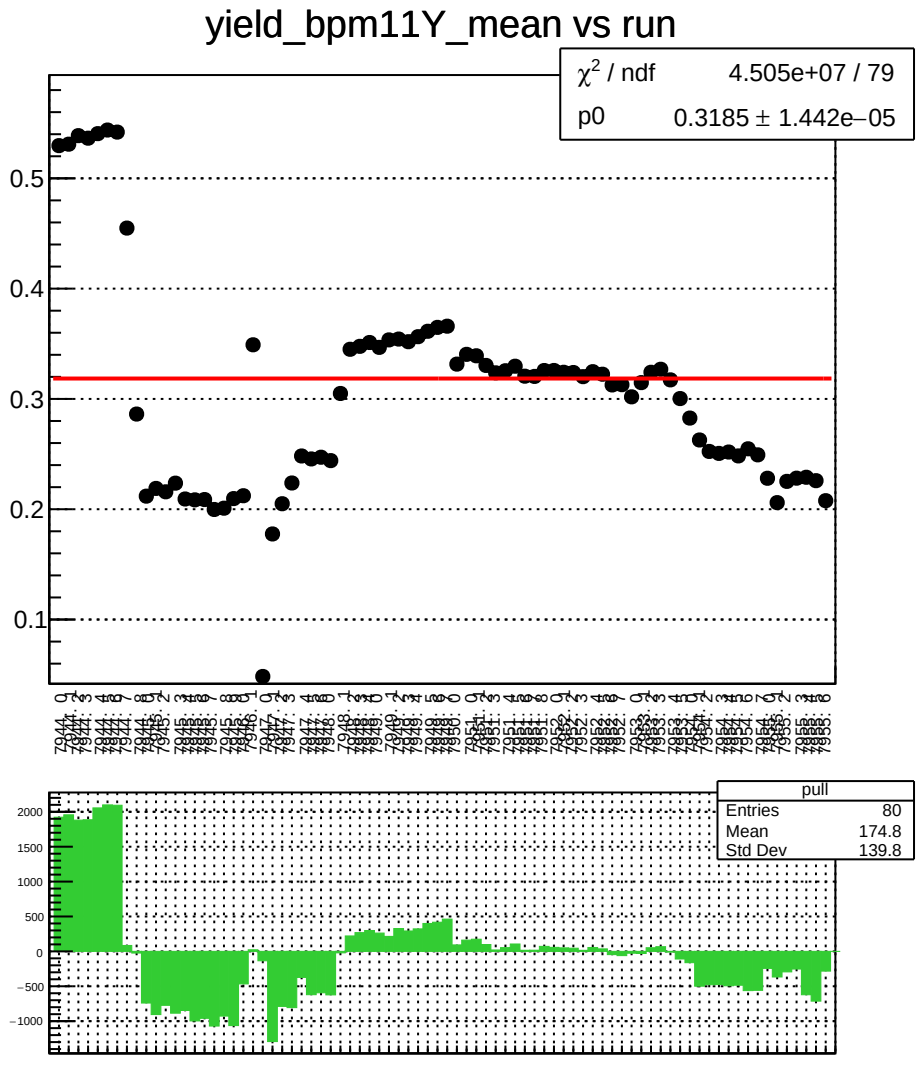

pull1D
Entries 80
Mean 3.333
Std Dev 1.712

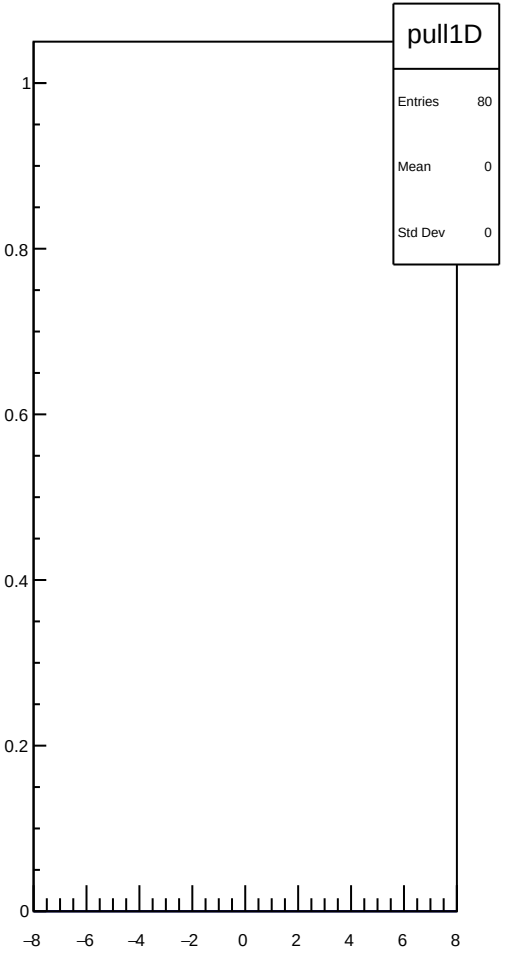

yield_bpm1Y_rms vs run
χ² / ndf 2.525e+05 / 79
p0 0.01921 ± 1.681e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

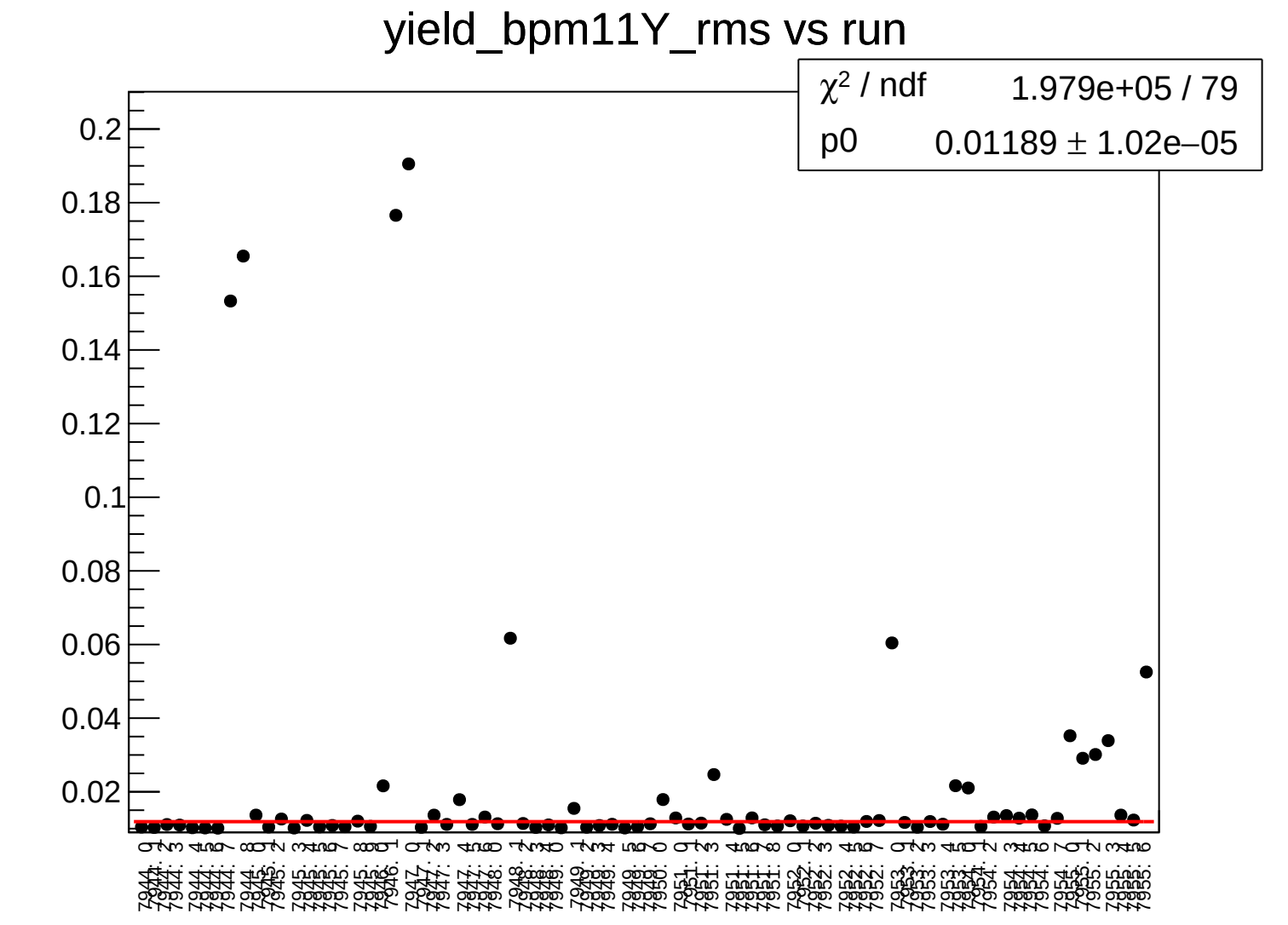

yield_bpm11X_mean vs run
χ² / ndf 1.1e+07 / 79
p0 1.192 ± 3.836e−05
pull
Entries 80
Mean −579.5
Std Dev 642.4

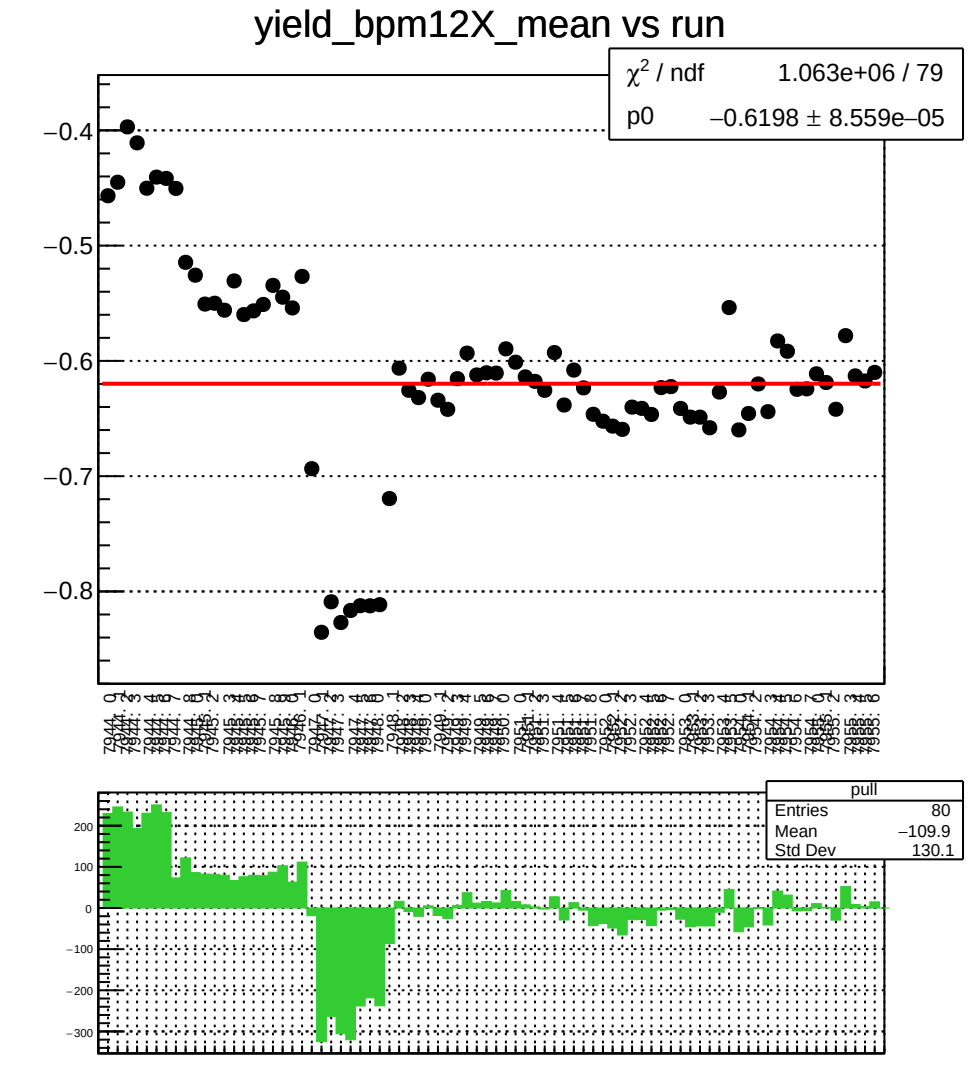

pull1D
Entries 80
Mean 0.6279
Std Dev 0

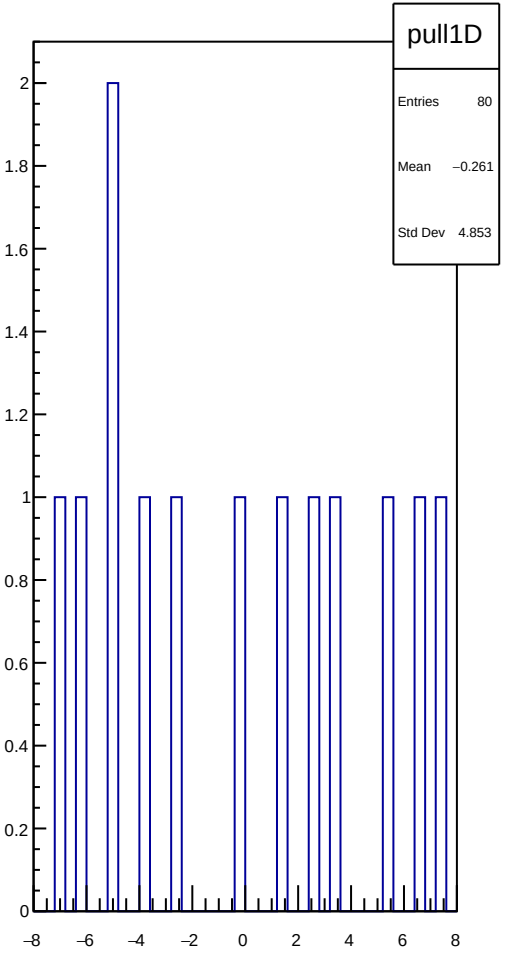

yield_bpm11X_rms vs run
χ² / ndf 1.224e+05 / 79
p0 0.0325 ± 2.712e−05
0.25
0.2
0.15
0.1
0.05

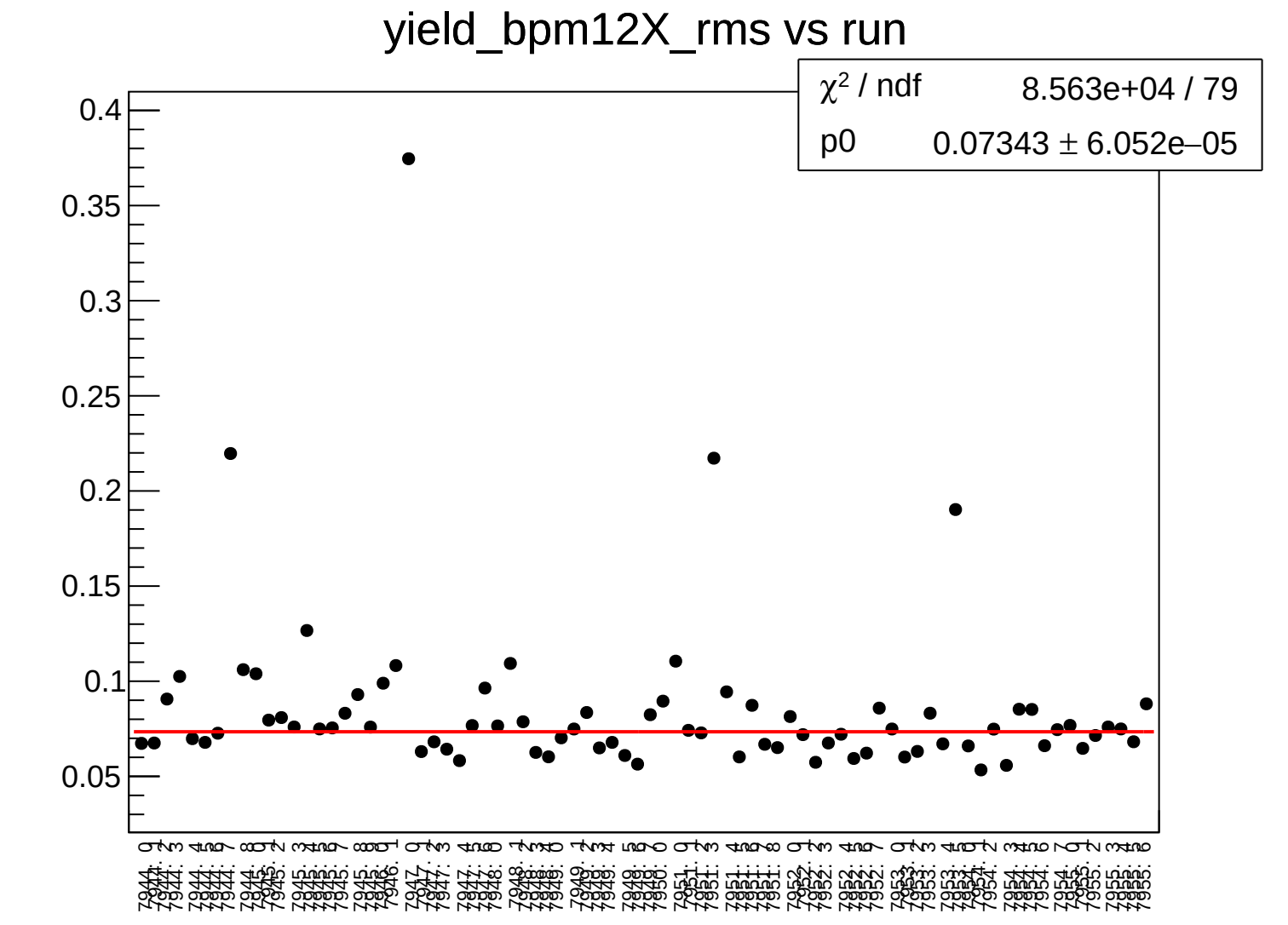

yield_bpm11Y_mean vs run
χ² / ndf 4.505e+07 / 79
p0 0.3185 ± 1.442e−05
pull
Entries 80
Mean 174.8
Std Dev 139.8

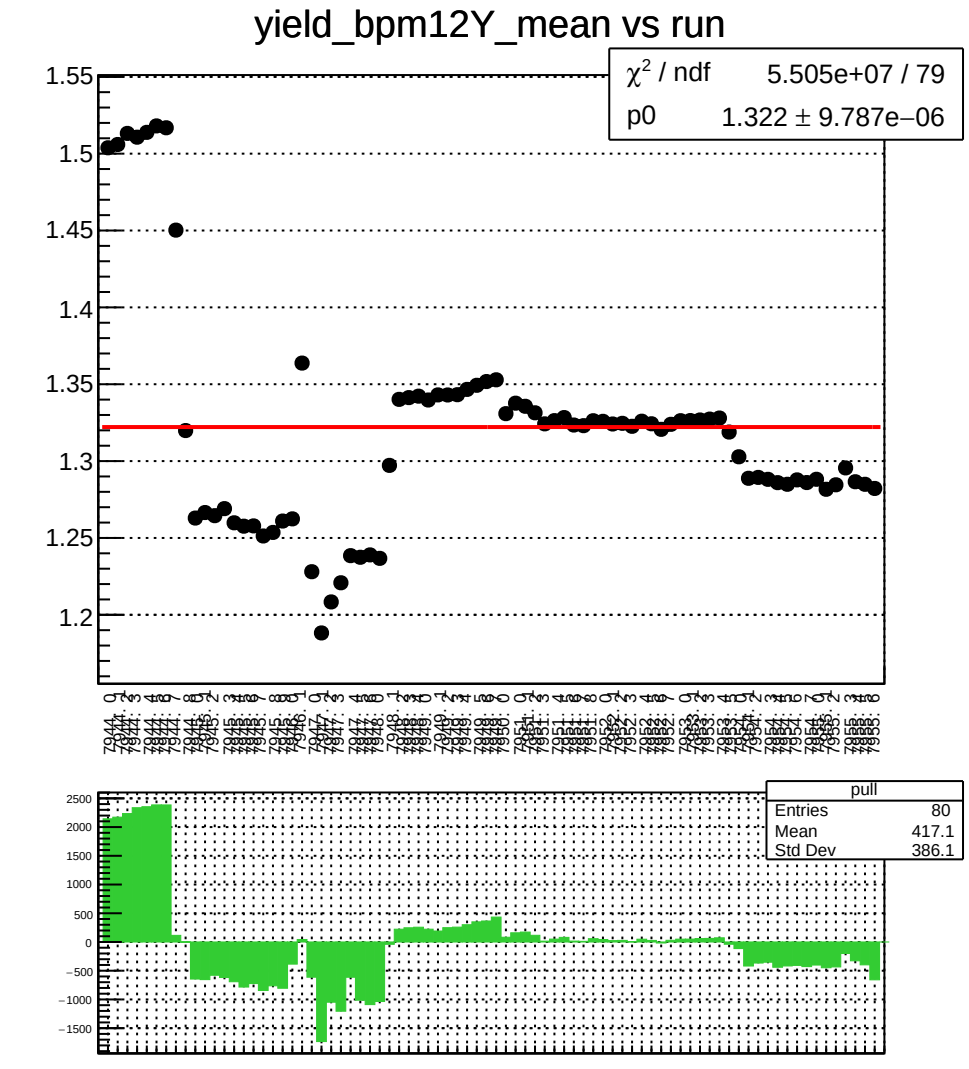

pull1D
Entries 80
Mean 0
Std Dev 0

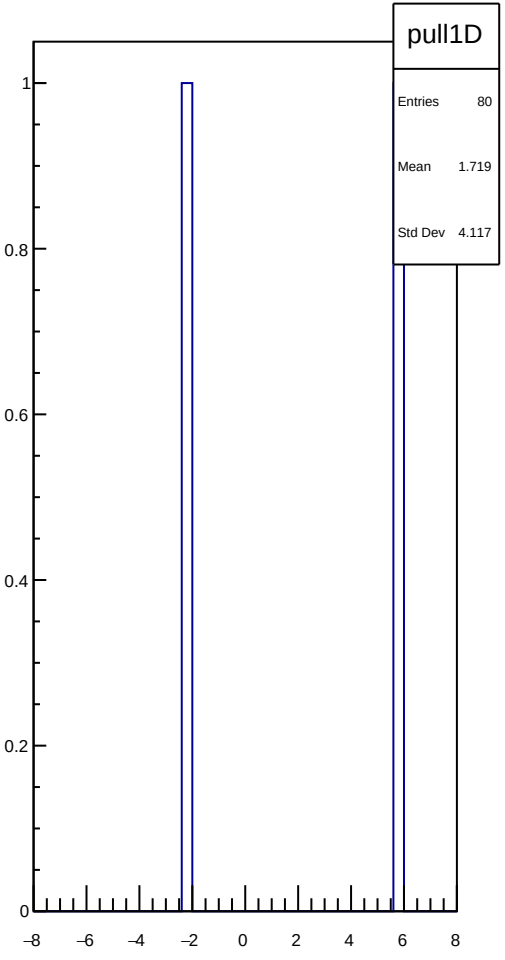

yield_bpm11Y_rms vs run
χ² / ndf 1.979e+05 / 79
p0 0.01189 ± 1.02e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

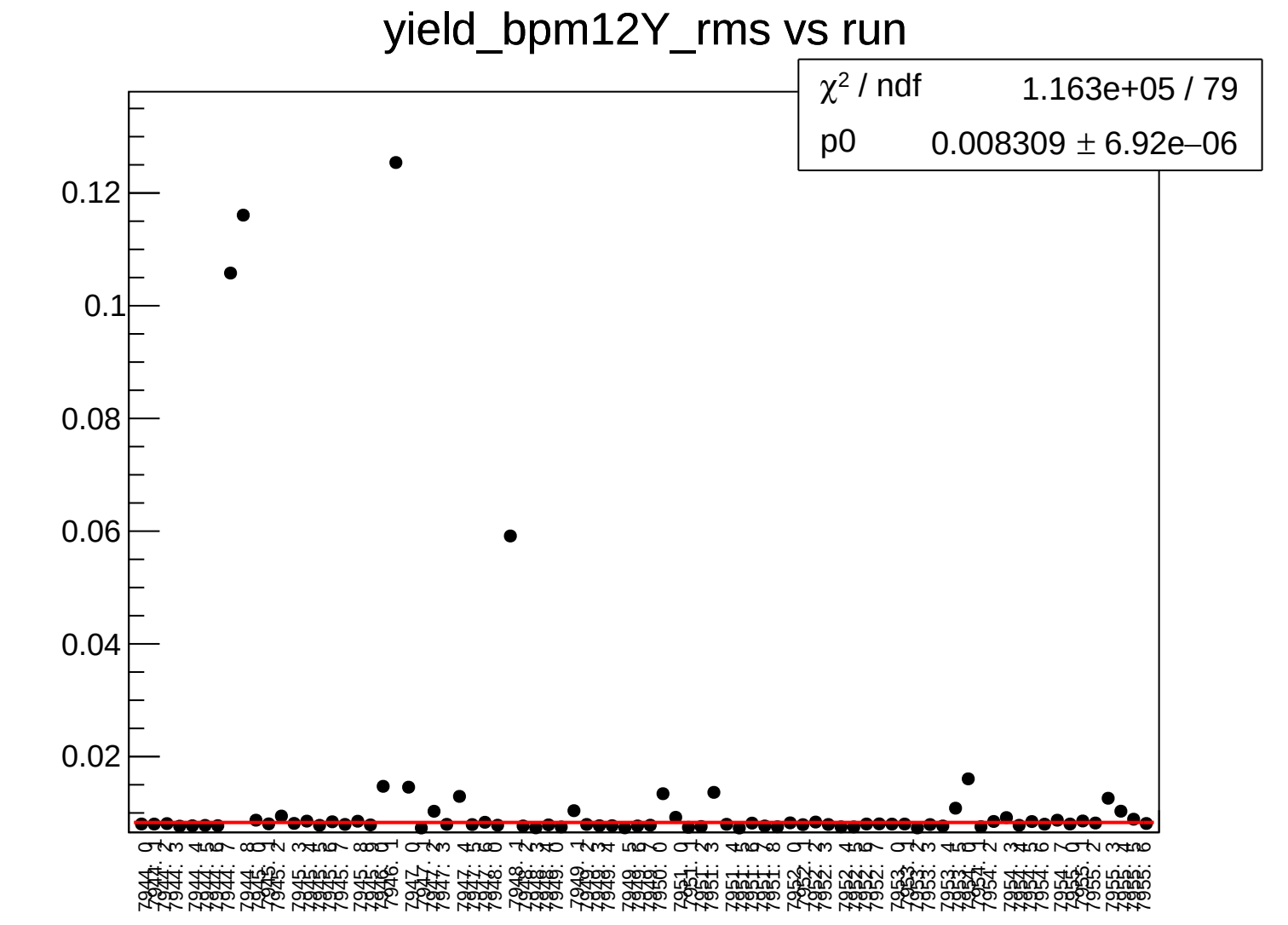

yield_bpm12X_mean vs run
χ² / ndf 1.063e+06 / 79
p0 −0.6198 ± 8.559e−05
pull
Entries 80
Mean −109.9
Std Dev 130.1

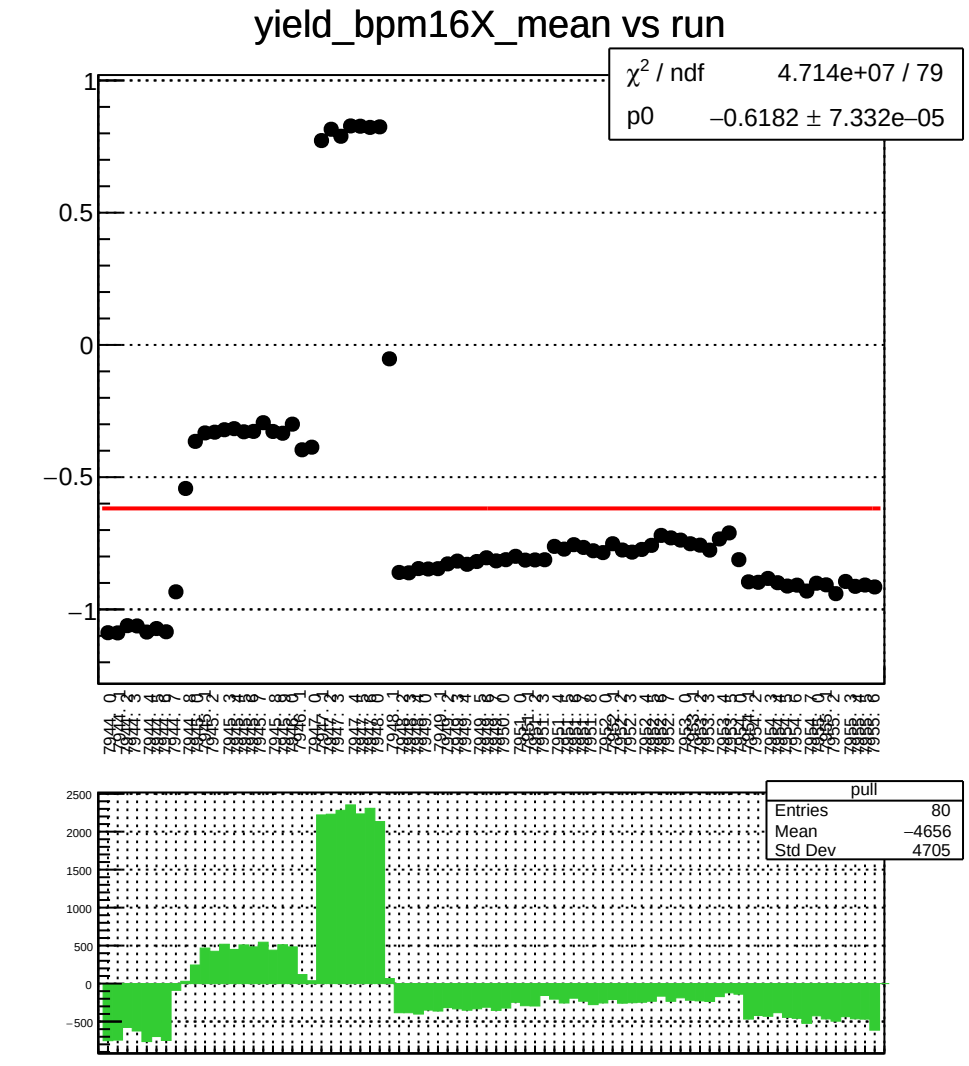

pull1D
Entries 80
Mean −0.261
Std Dev 4.853

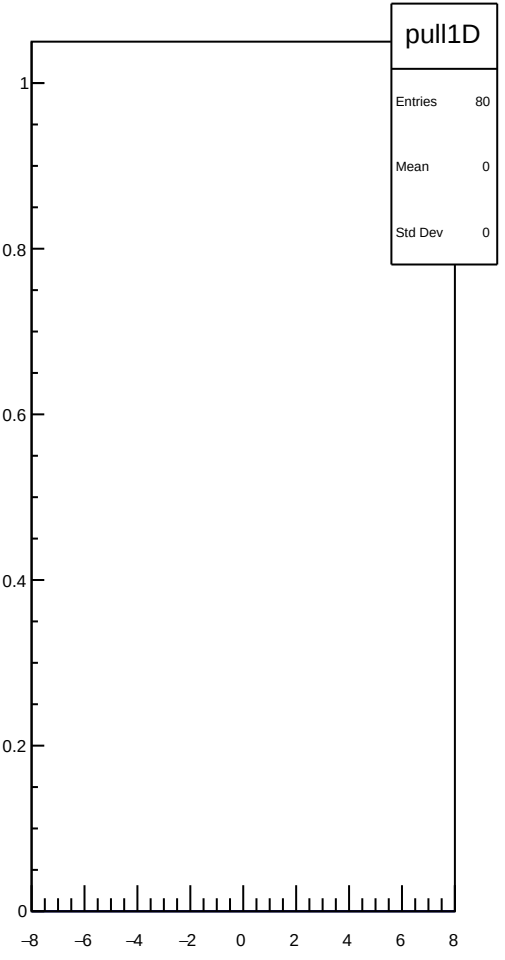

yield_bpm12X_rms vs run
χ² / ndf 8.563e+04 / 79
p0 0.07343 ± 6.052e−05
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

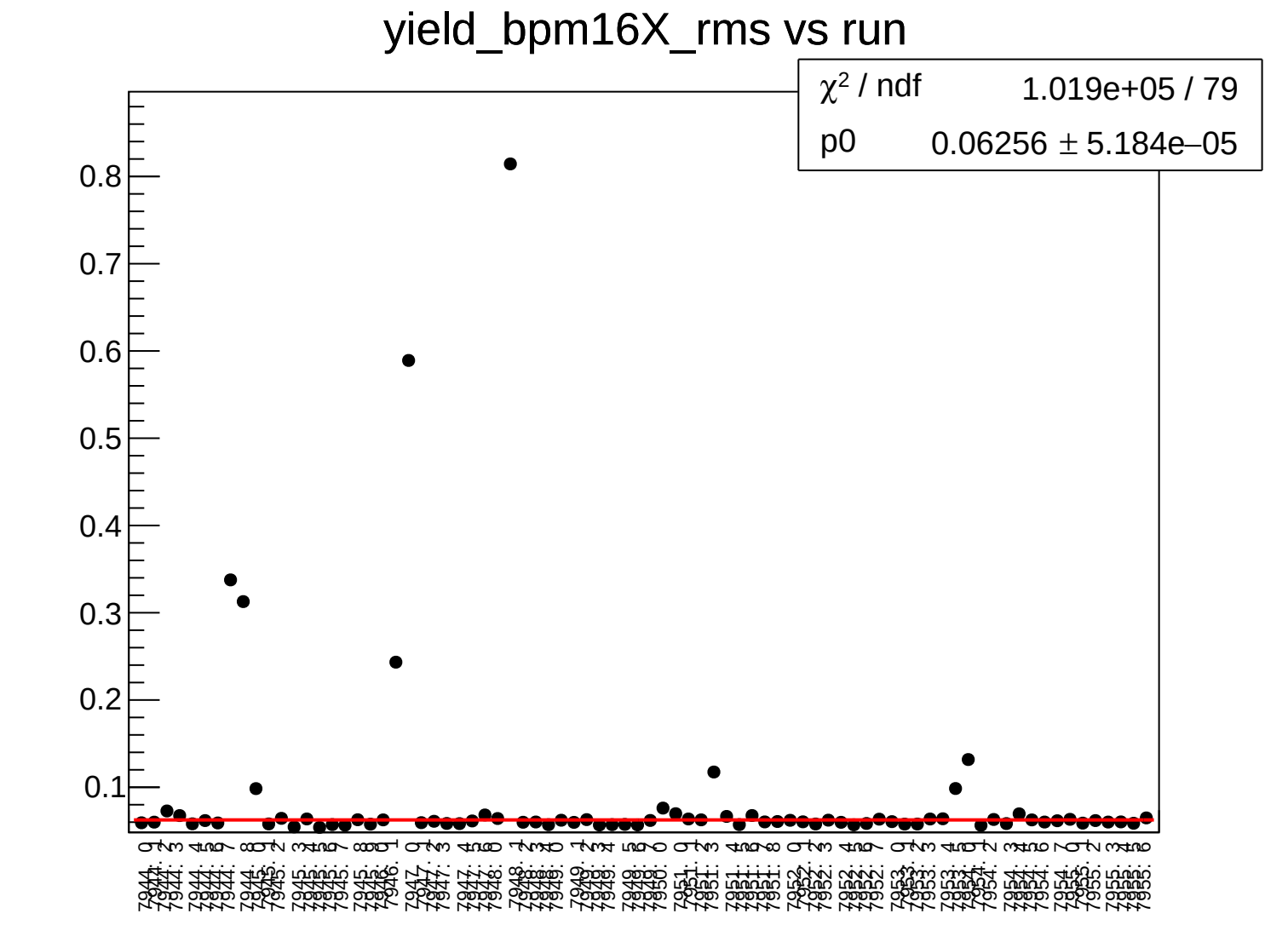

yield_bpm12Y_mean vs run
χ² / ndf 5.505e+07 / 79
p0 1.322 ± 9.787e−06
pull
Entries 80
Mean 417.1
Std Dev 386.1

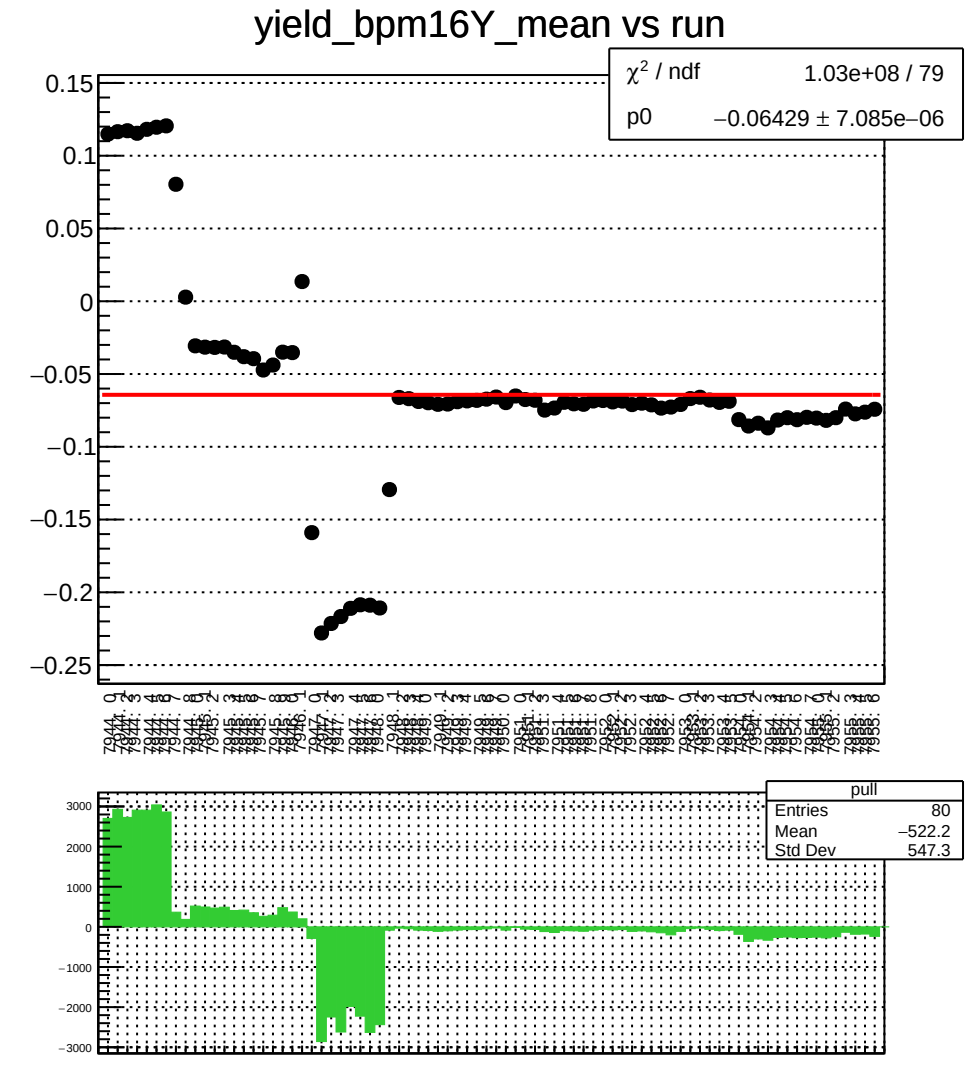

pull1D
Entries 80
Mean 1.719
Std Dev 4.117

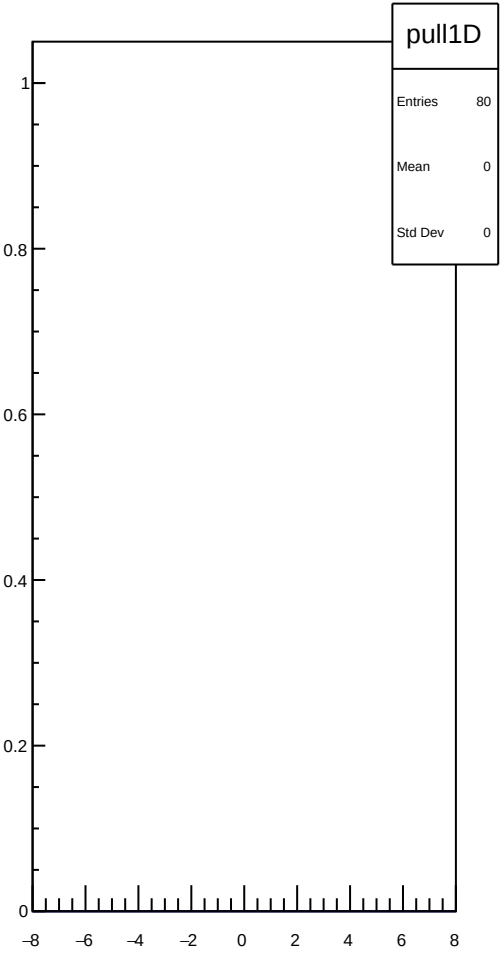

yield_bpm12Y_rms vs run
χ² / ndf 1.163e+05 / 79
p0 0.008309 ± 6.92e−06
0.12
0.1
0.08
0.06
0.04
0.02

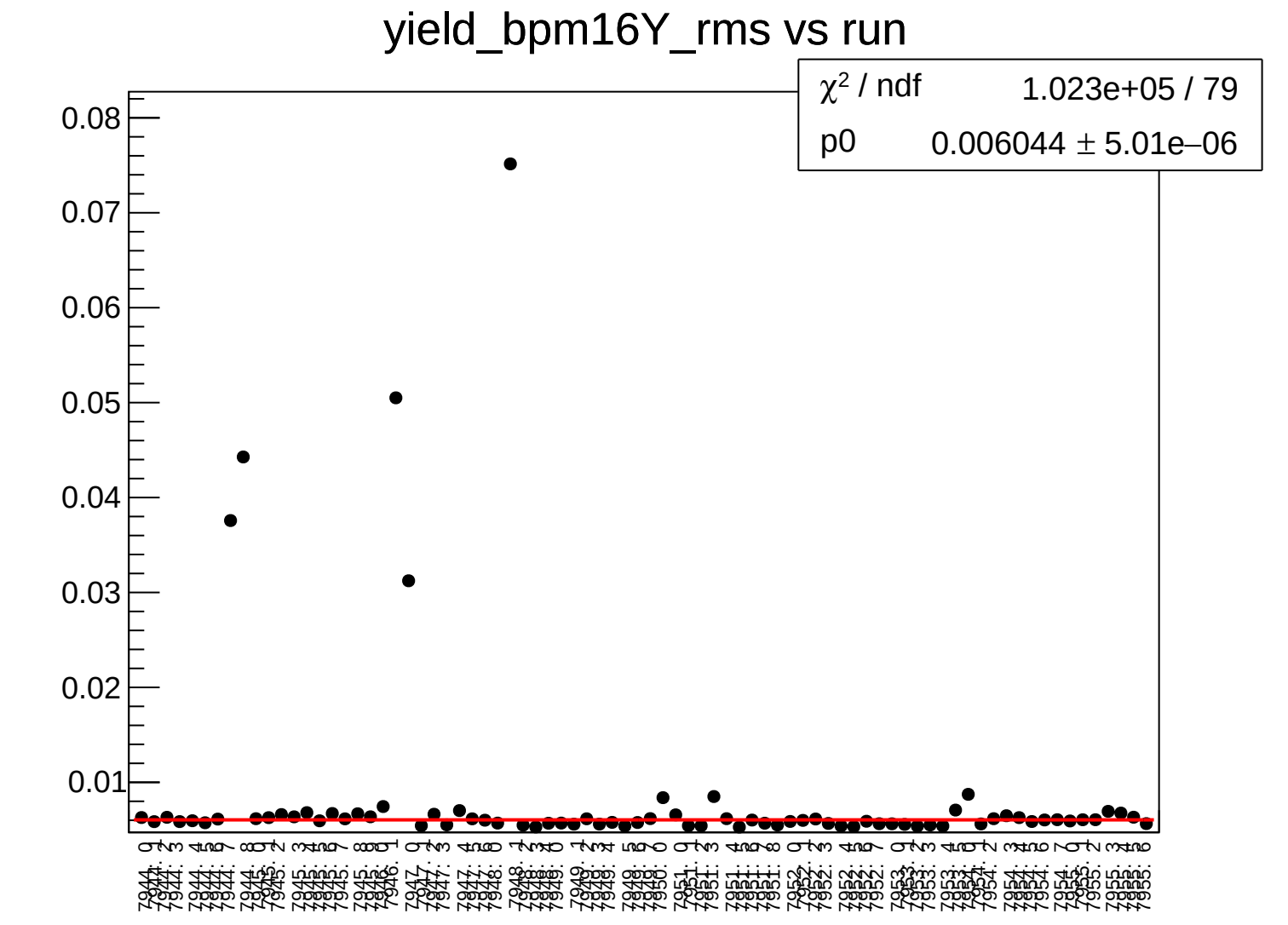

yield_bpm16X_mean vs run
χ² / ndf 4.714e+07 / 79
p0 −0.6182 ± 7.332e−05
pull
Entries 80
Mean −4656
Std Dev 4705

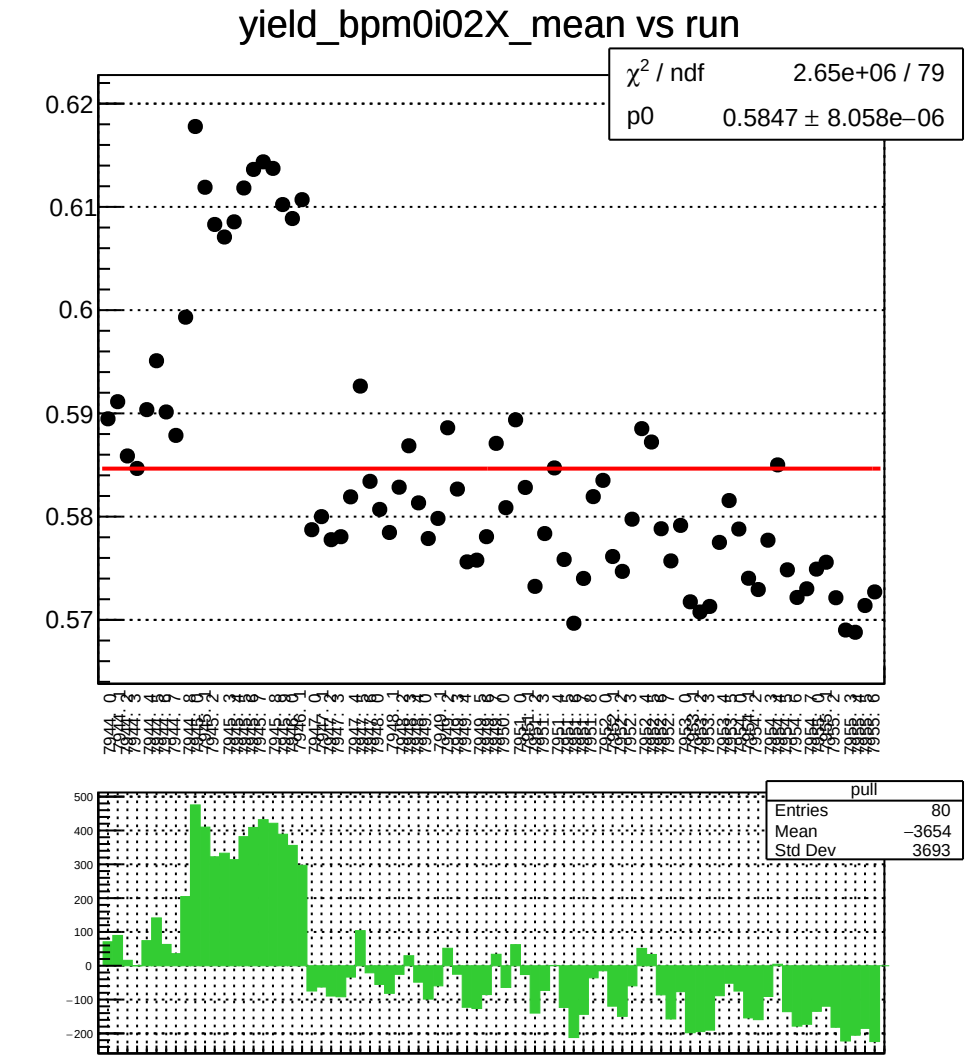

pull1D
Entries 80
Mean 0
Std Dev 0

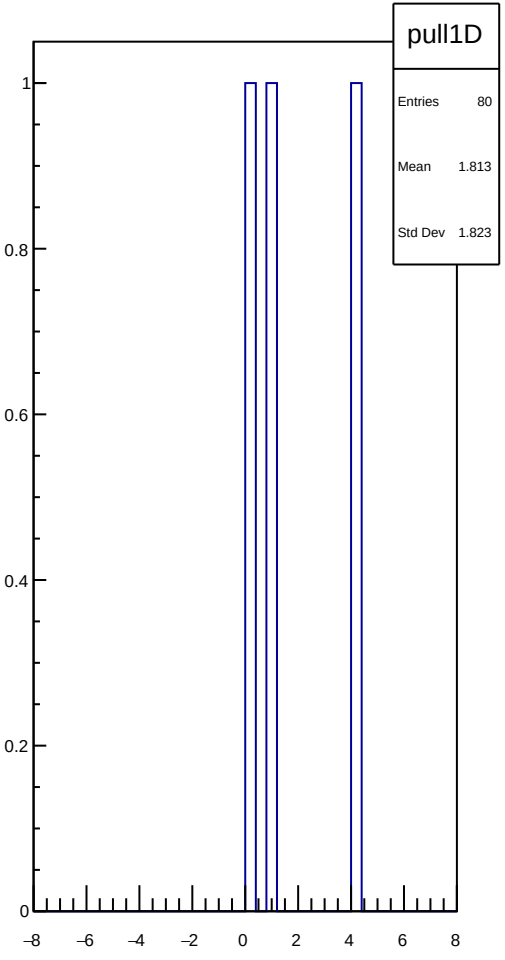

yield_bpm16X_rms vs run
χ² / ndf 1.019e+05 / 79
p0 0.06256 ± 5.184e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

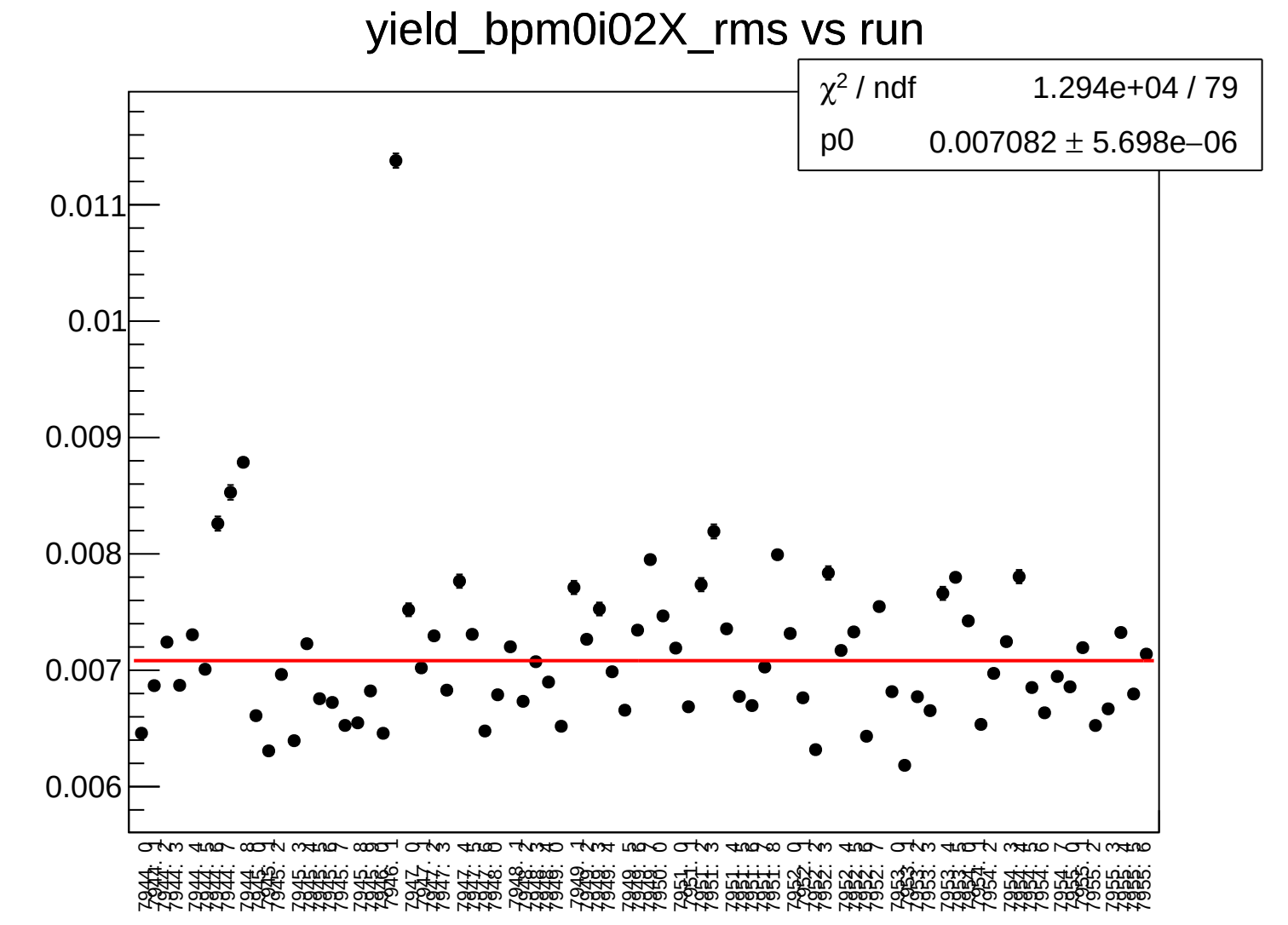

yield_bpm16Y_mean vs run
χ² / ndf 1.03e+08 / 79
p0 −0.06429 ± 7.085e−06
pull
Entries 80
Mean −522.2
Std Dev 547.3

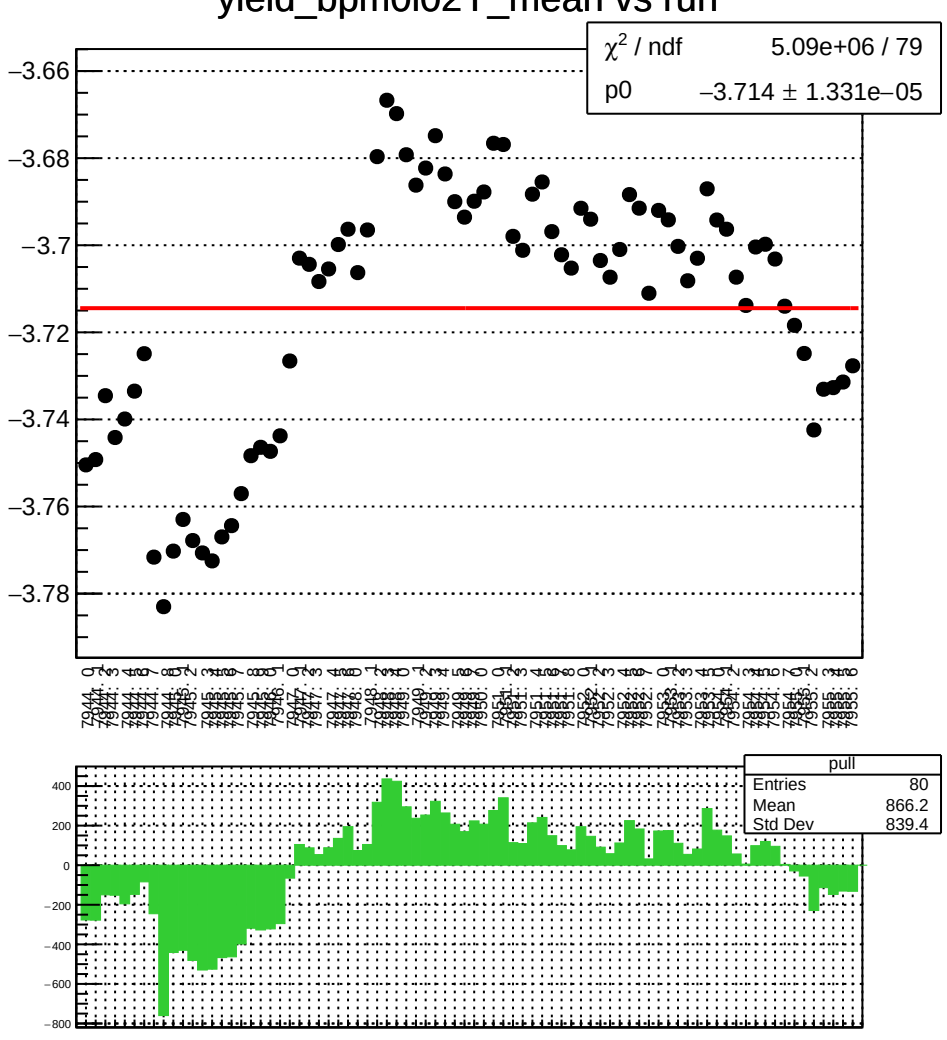

pull1D
Entries 80
Mean 0
Std Dev 0

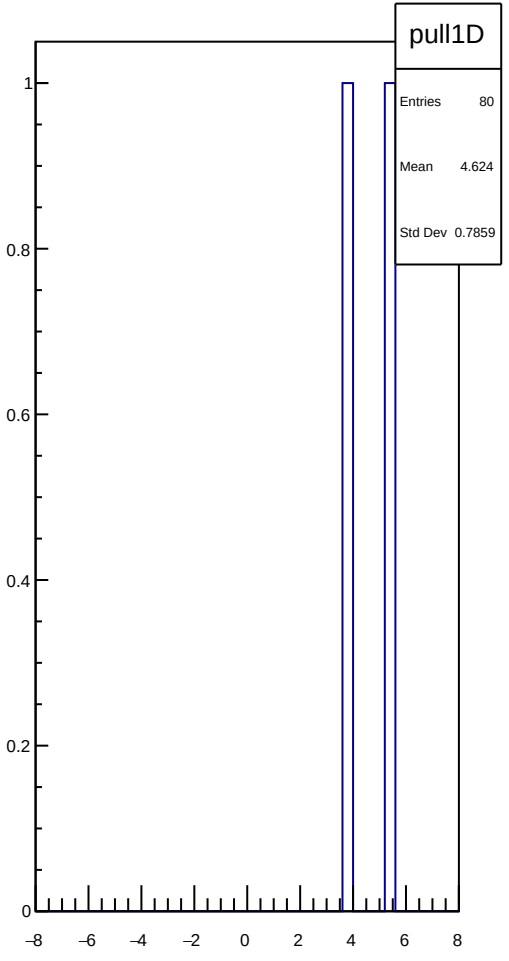

yield_bpm16Y_rms vs run
χ² / ndf 1.023e+05 / 79
p0 0.006044 ± 5.01e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

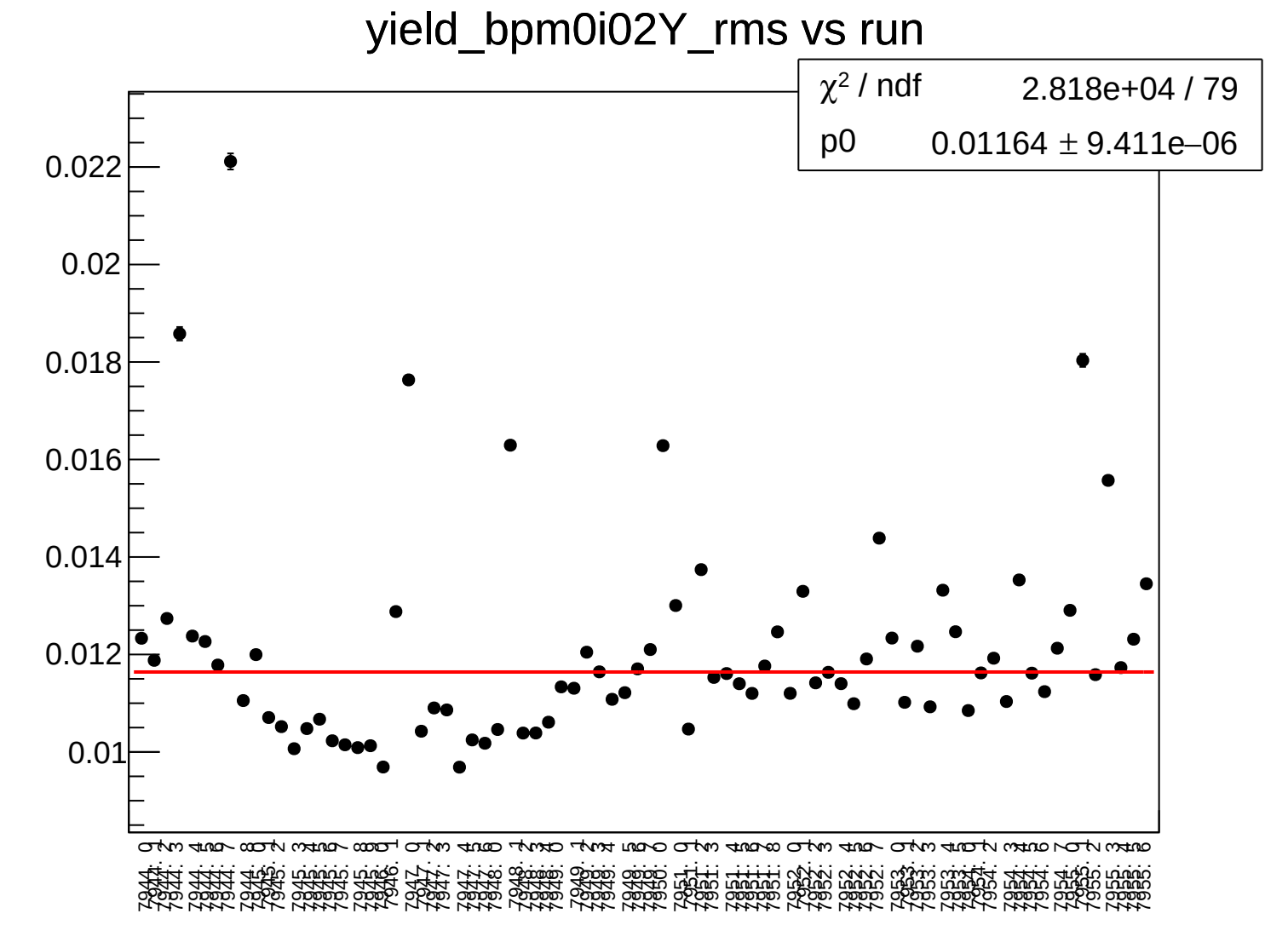

yield_bpm0i02X_mean vs run
χ² / ndf 2.65e+06 / 79
p0 0.5847 ± 8.058e−06
0.62
0.61
0.6
0.59
0.58
0.57
pull
Entries 80
Mean −3654
Std Dev 3693
500
400
300
200
100
0
−100
−200

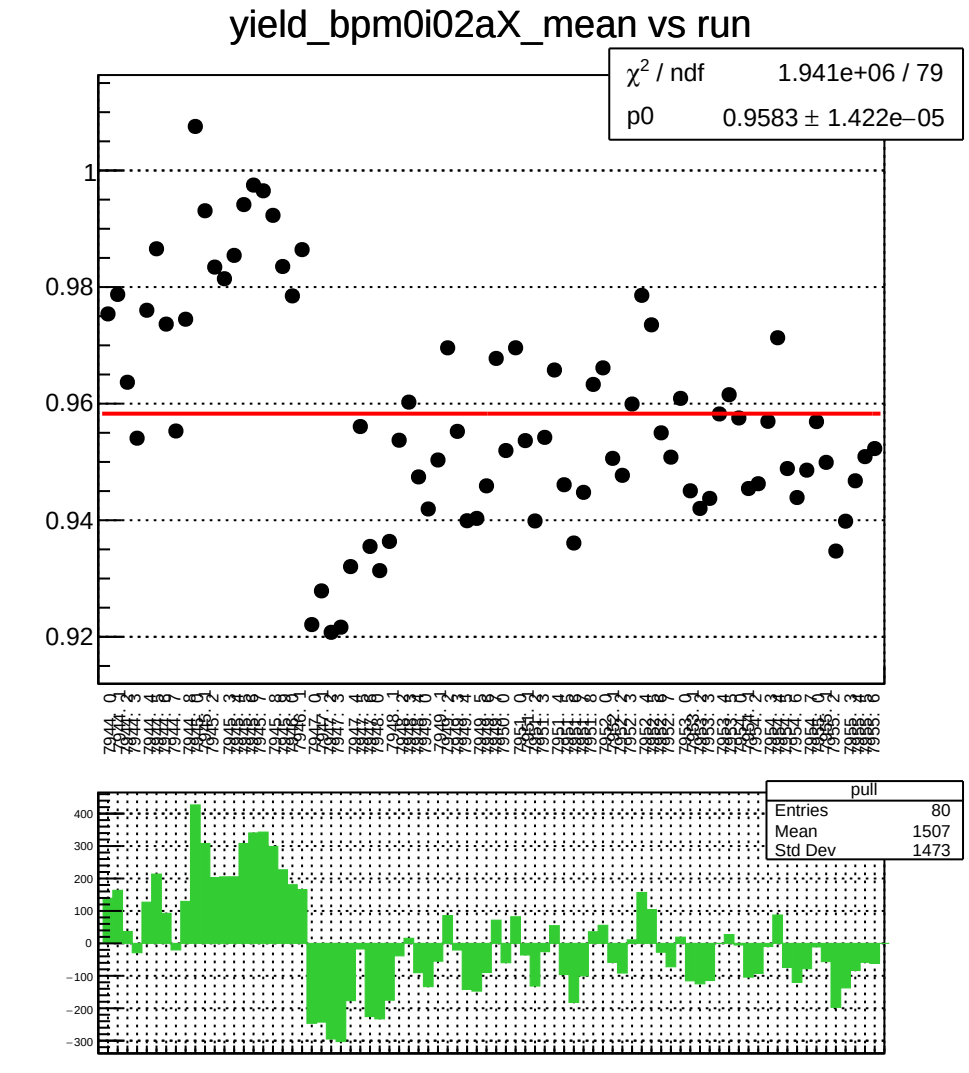

pull1D
Entries 80
Mean 1.813
Std Dev 1.823
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

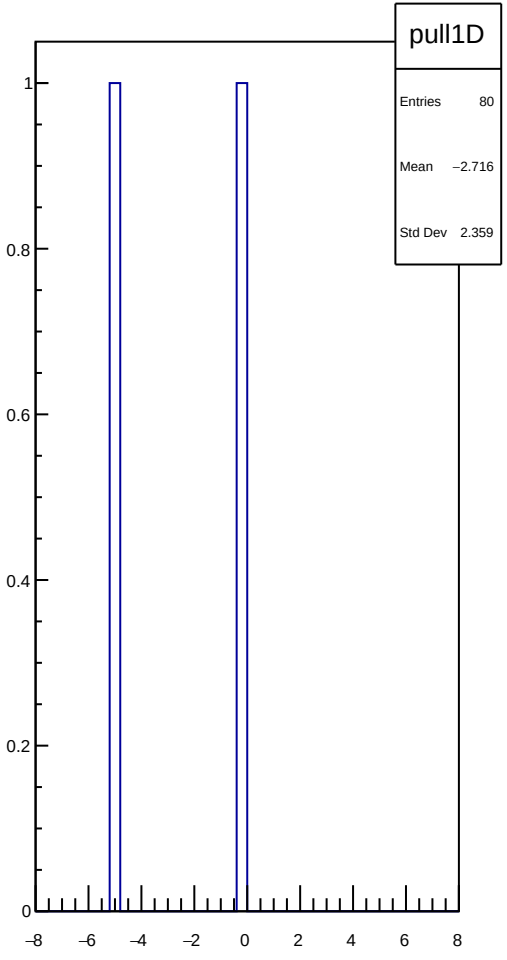

yield_bpm0i02X_rms vs run
χ^2 / ndf 1.294e+04 / 79
p0 0.007082 ± 5.698e−06
0.011
0.01
0.009
0.008
0.007
0.006

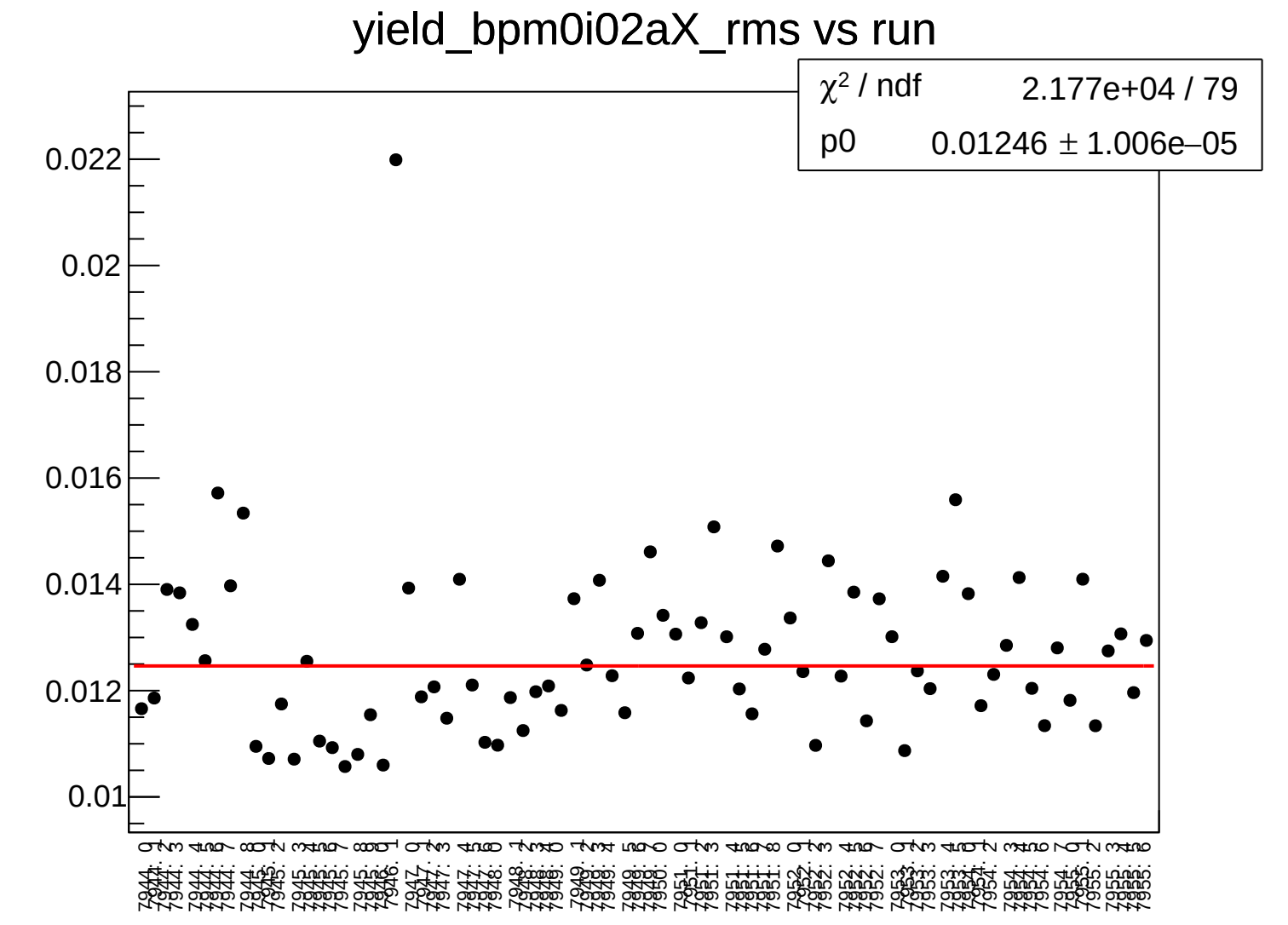

yield_bpm0i02Y_mean vs run
χ² / ndf 5.09e+06 / 79
p0 −3.714 ± 1.331e−05
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 80
Mean 866.2
Std Dev 839.4
400
200
0
−200
−400
−600
−800

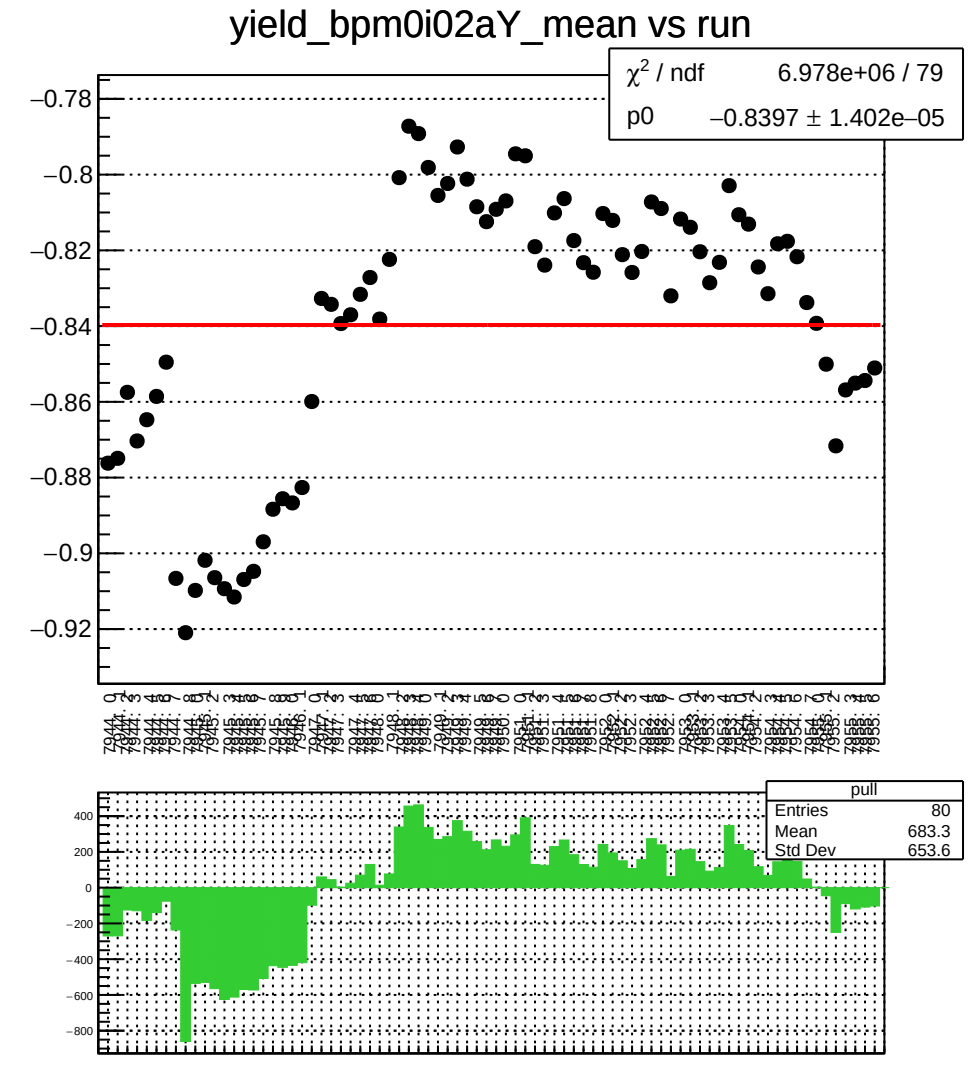

pull1D
Entries 80
Mean 4.624
Std Dev 0.7859
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

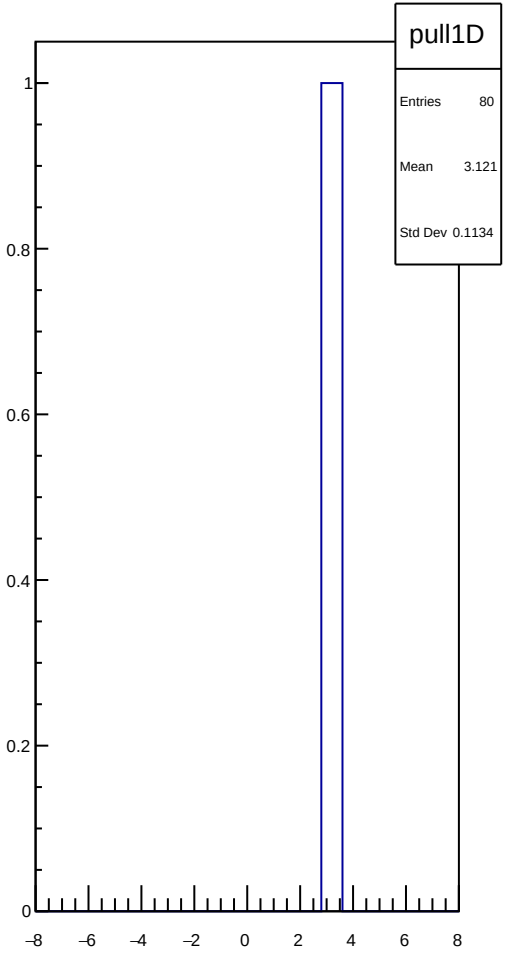

yield_bpm0i02Y_rms vs run
χ² / ndf 2.818e+04 / 79
p0 0.01164 ± 9.411e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

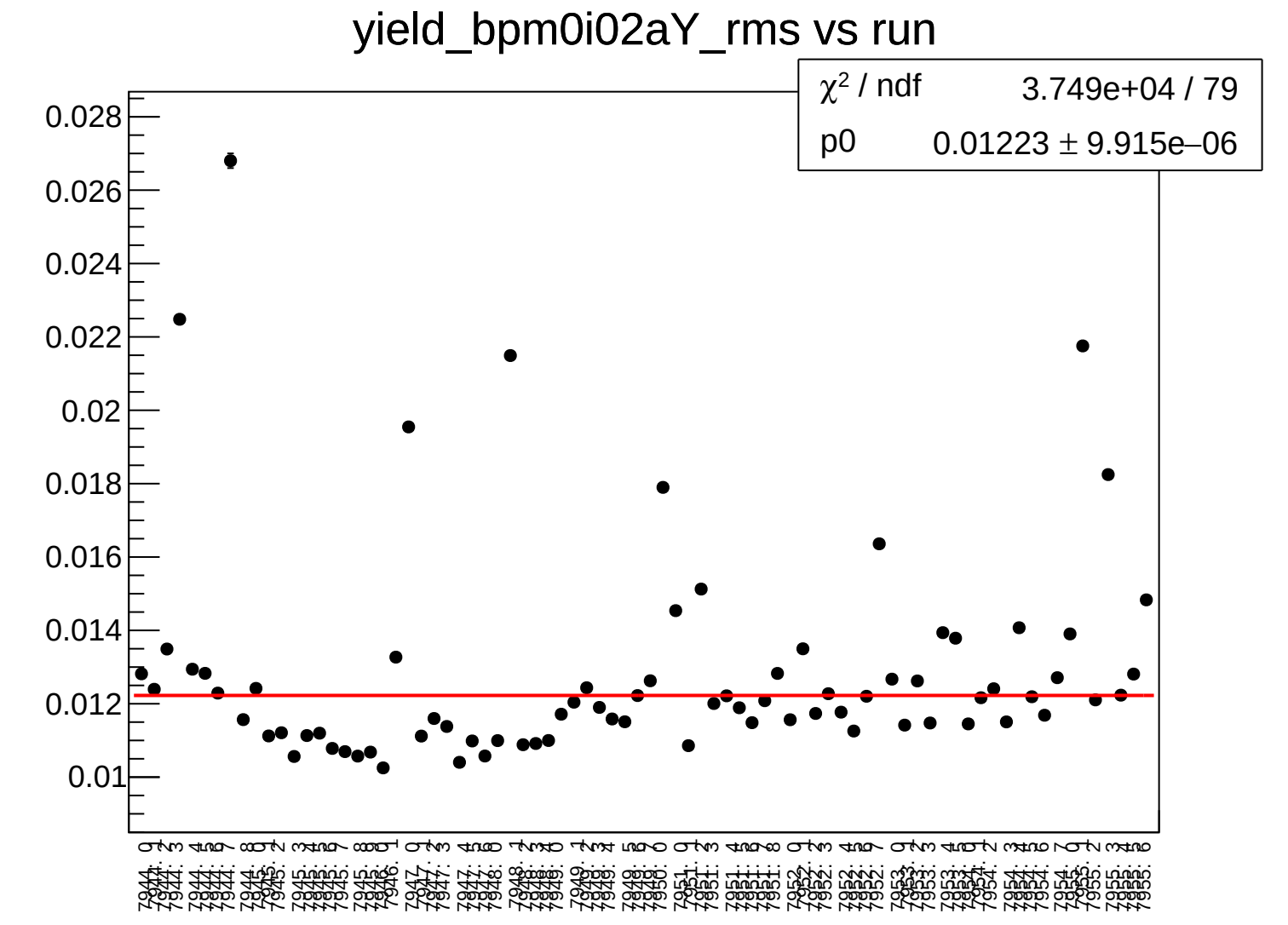

yield_bpm0i02aX_mean vs run
χ² / ndf 1.941e+06 / 79
p0 0.9583 ± 1.422e−05
1
0.98
0.96
0.94
0.92
pull
Entries 80
Mean 1507
Std Dev 1473
400
300
200
100
0
−100
−200
−300

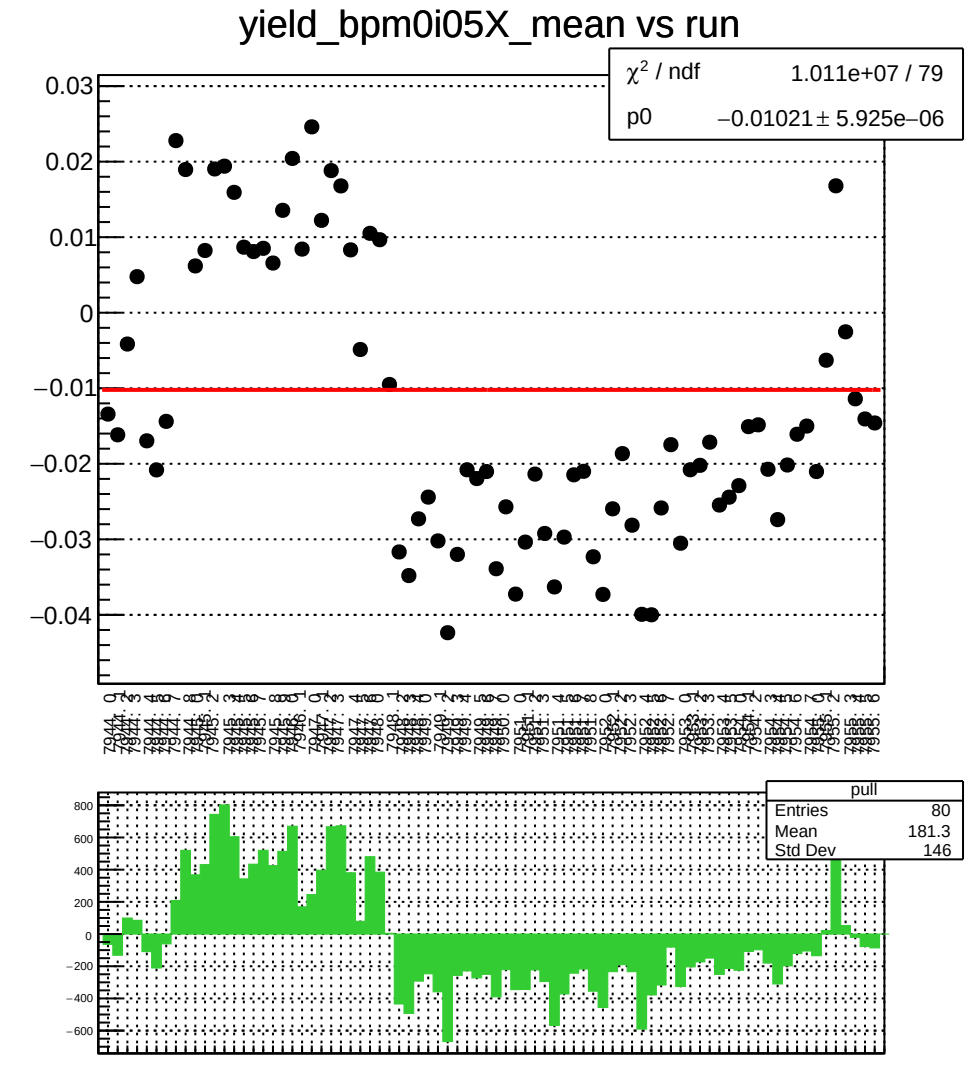

pull1D
Entries 80
Mean −2.716
Std Dev 2.359
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

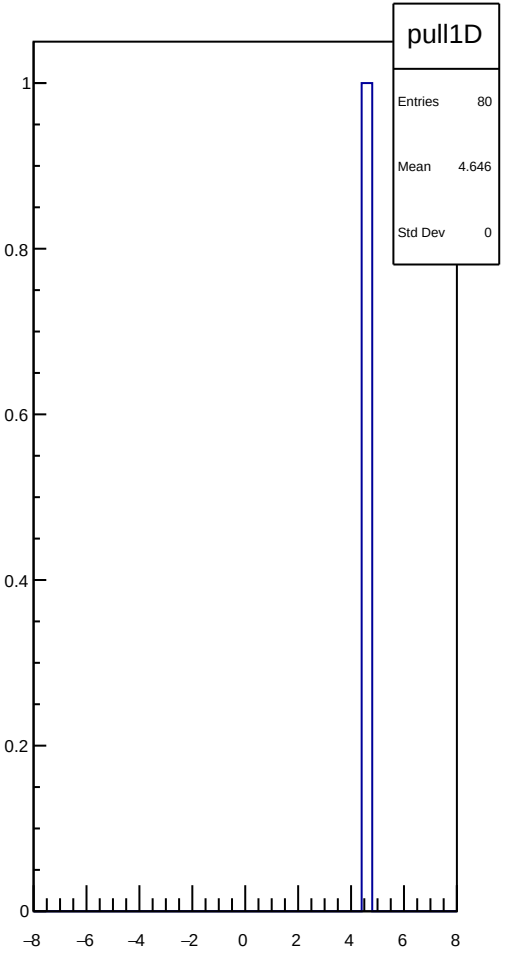

yield_bpm0i02aX_rms vs run
χ² / ndf 2.177e+04 / 79
p0 0.01246 ± 1.006e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

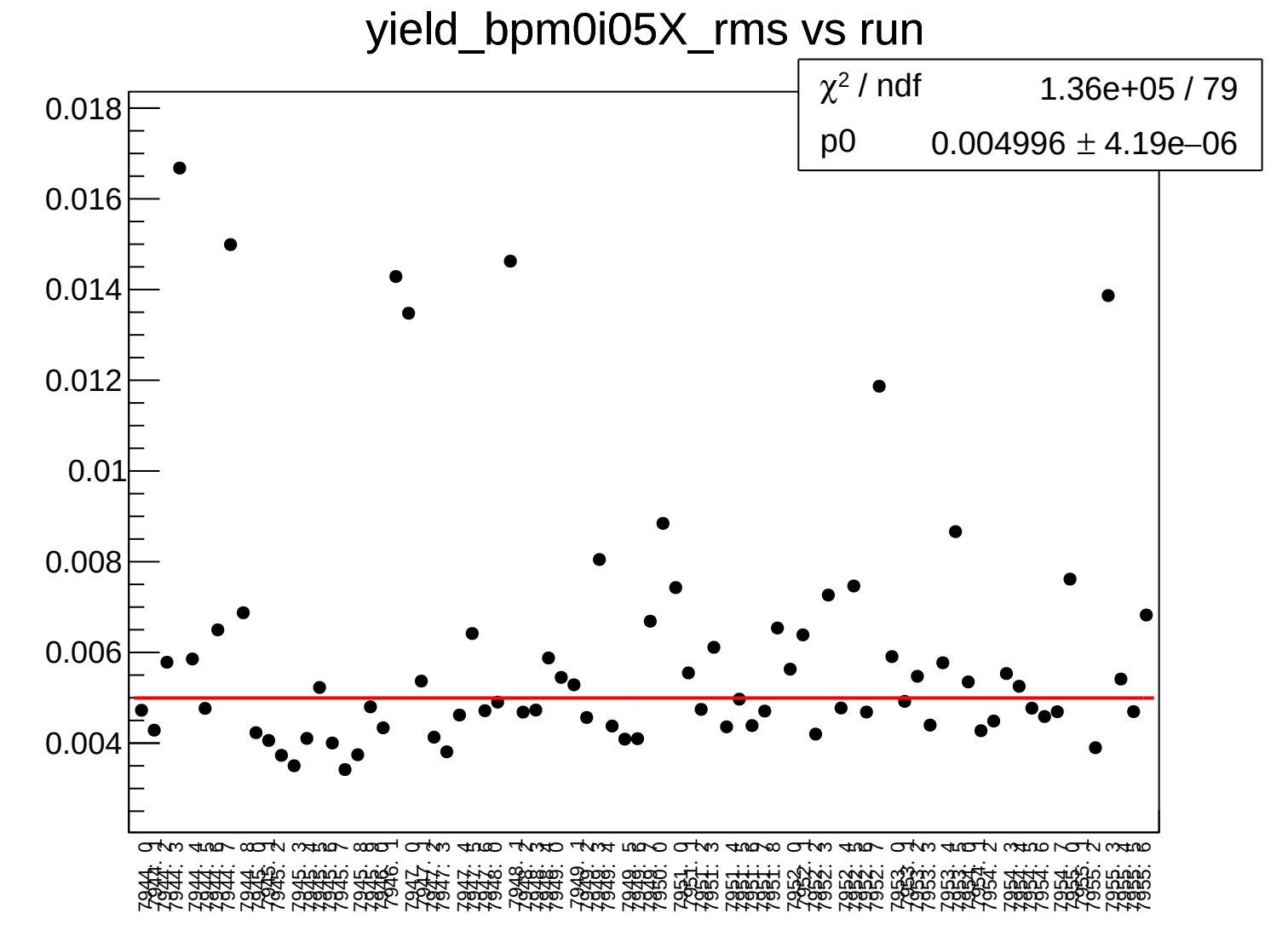

yield_bpm0i02aY_mean vs run
χ² / ndf 6.978e+06 / 79
p0 −0.8397 ± 1.402e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 80
Mean 683.3
Std Dev 653.6
400
200
0
−200
−400
−600
−800

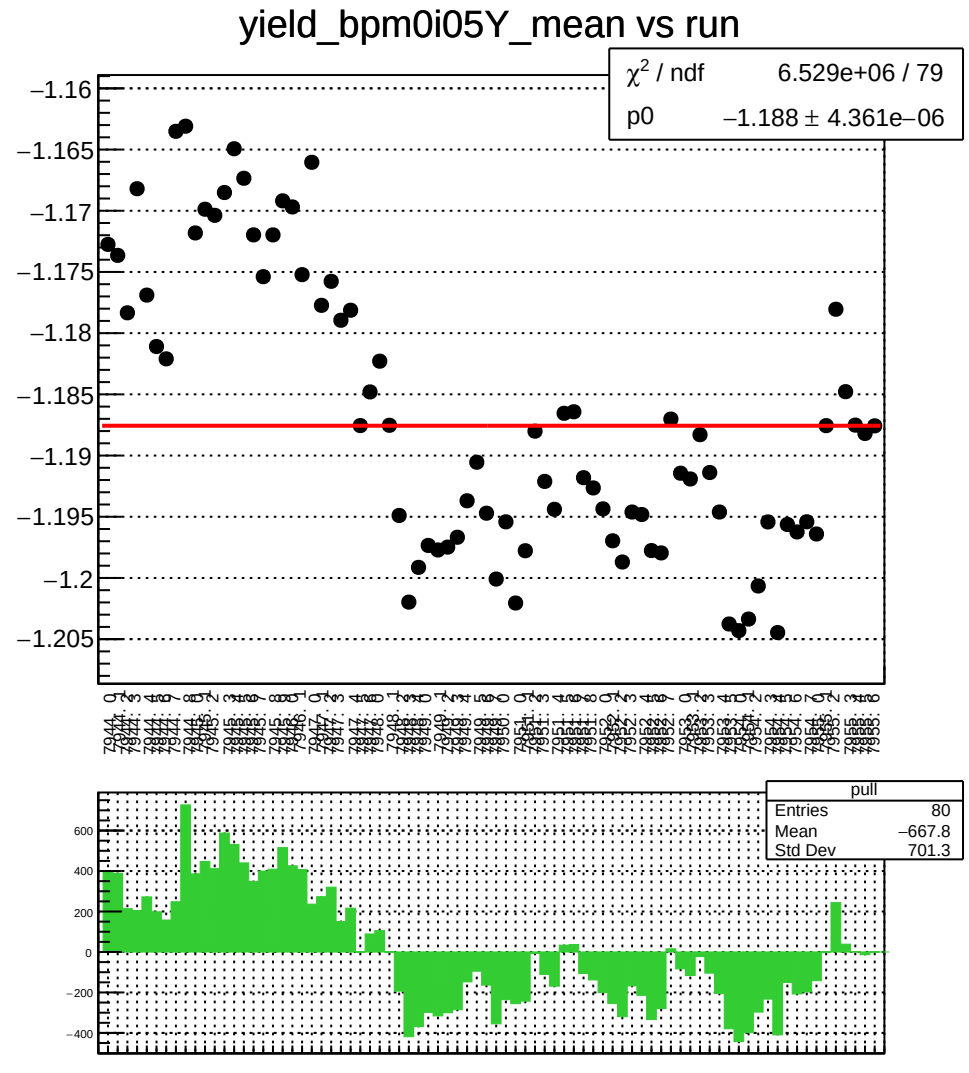

pull1D
Entries 80
Mean 3.121
Std Dev 0.1134
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

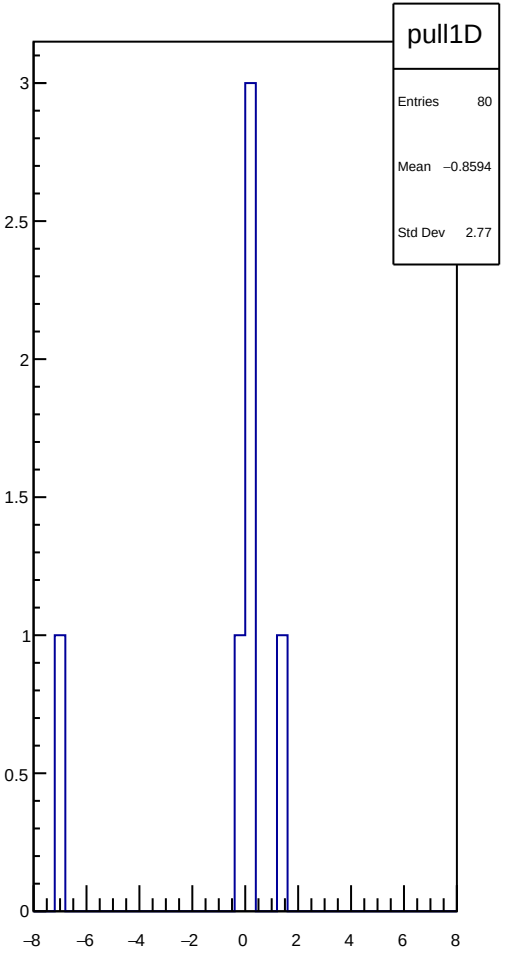

yield_bpm0i02aY_rms vs run
χ² / ndf 3.749e+04 / 79
p0 0.01223 ± 9.915e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

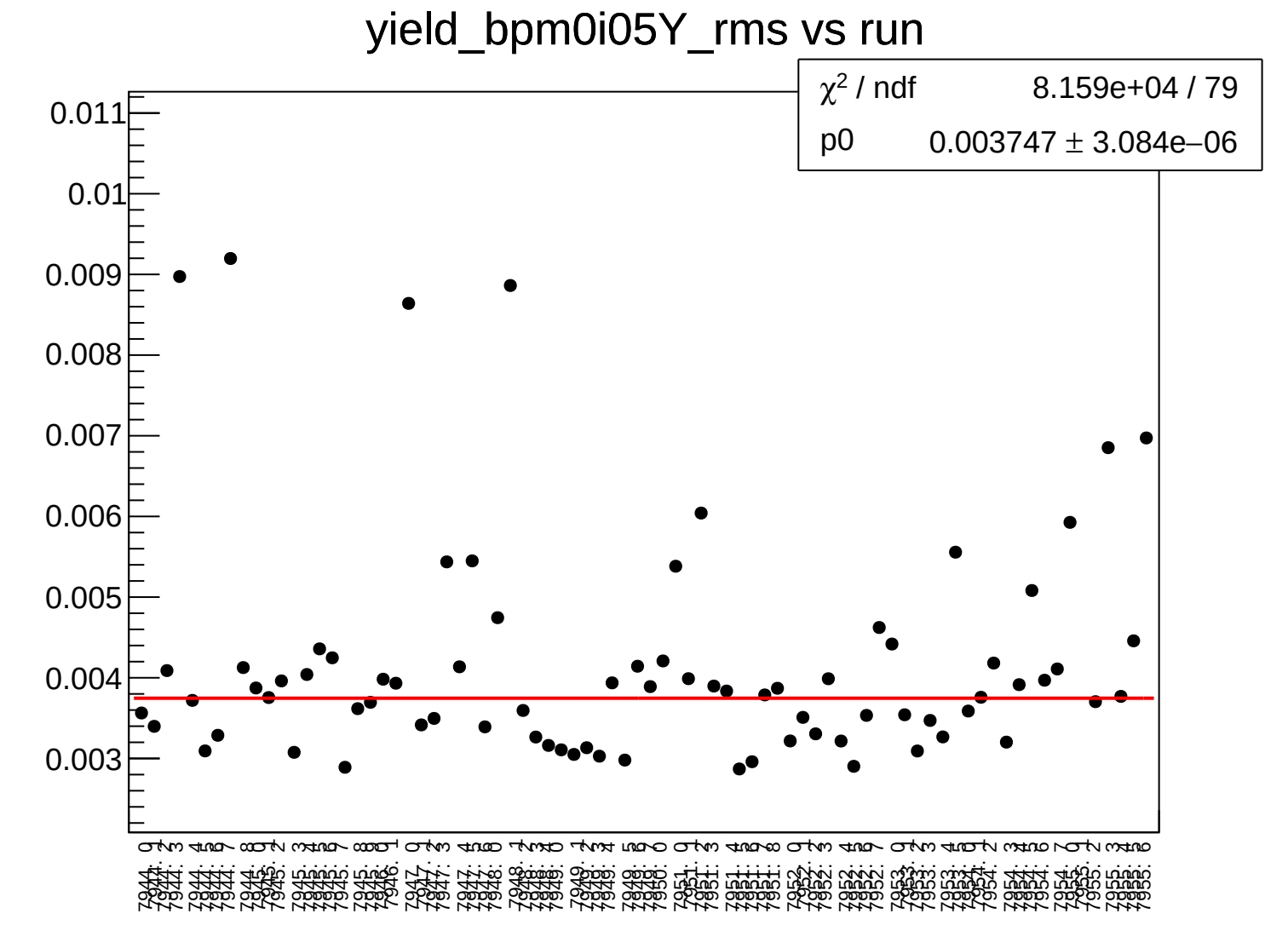

yield_bpm0i05X_mean vs run
χ² / ndf 1.011e+07 / 79
p0 −0.01021 ± 5.925e−06
pull
Entries 80
Mean 181.3
Std Dev 146

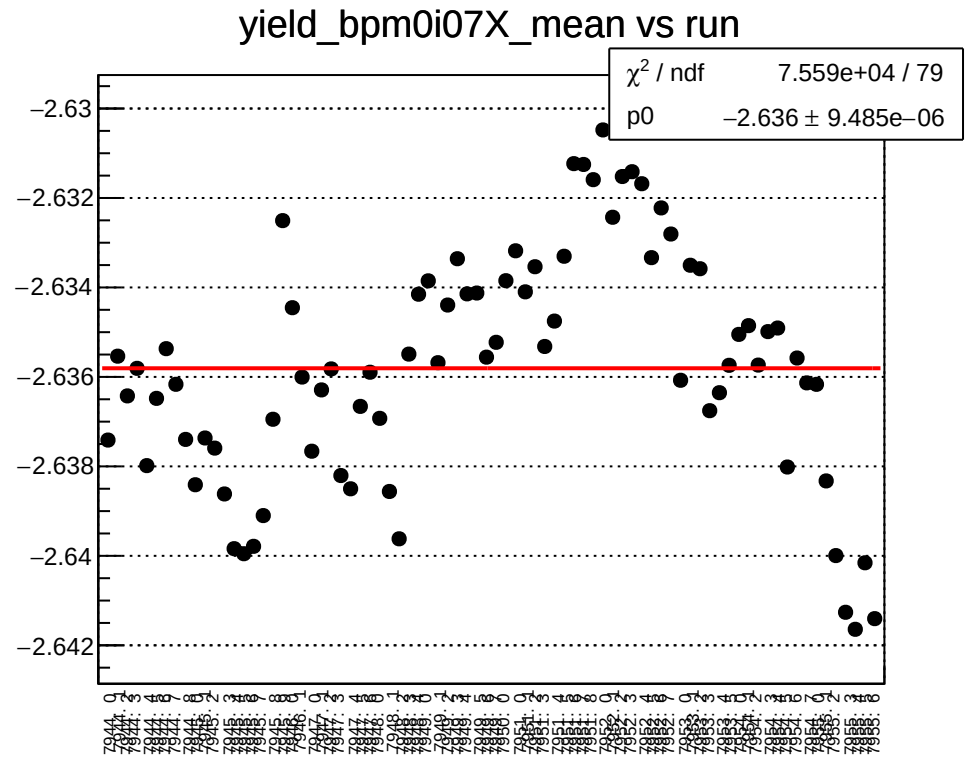

pull1D
Entries 80
Mean 4.646
Std Dev 0

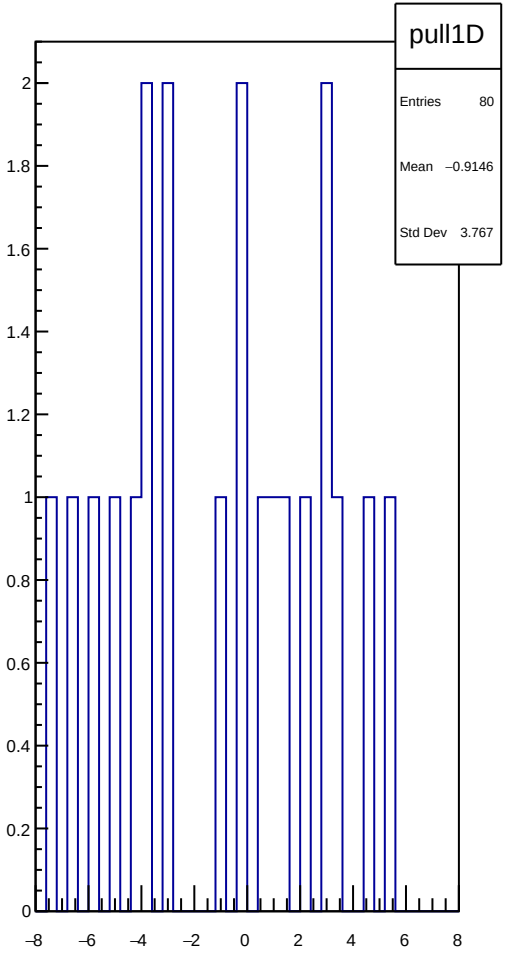

yield_bpm0i05X_rms vs run
χ² / ndf 1.36e+05 / 79
p0 0.004996 ± 4.19e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

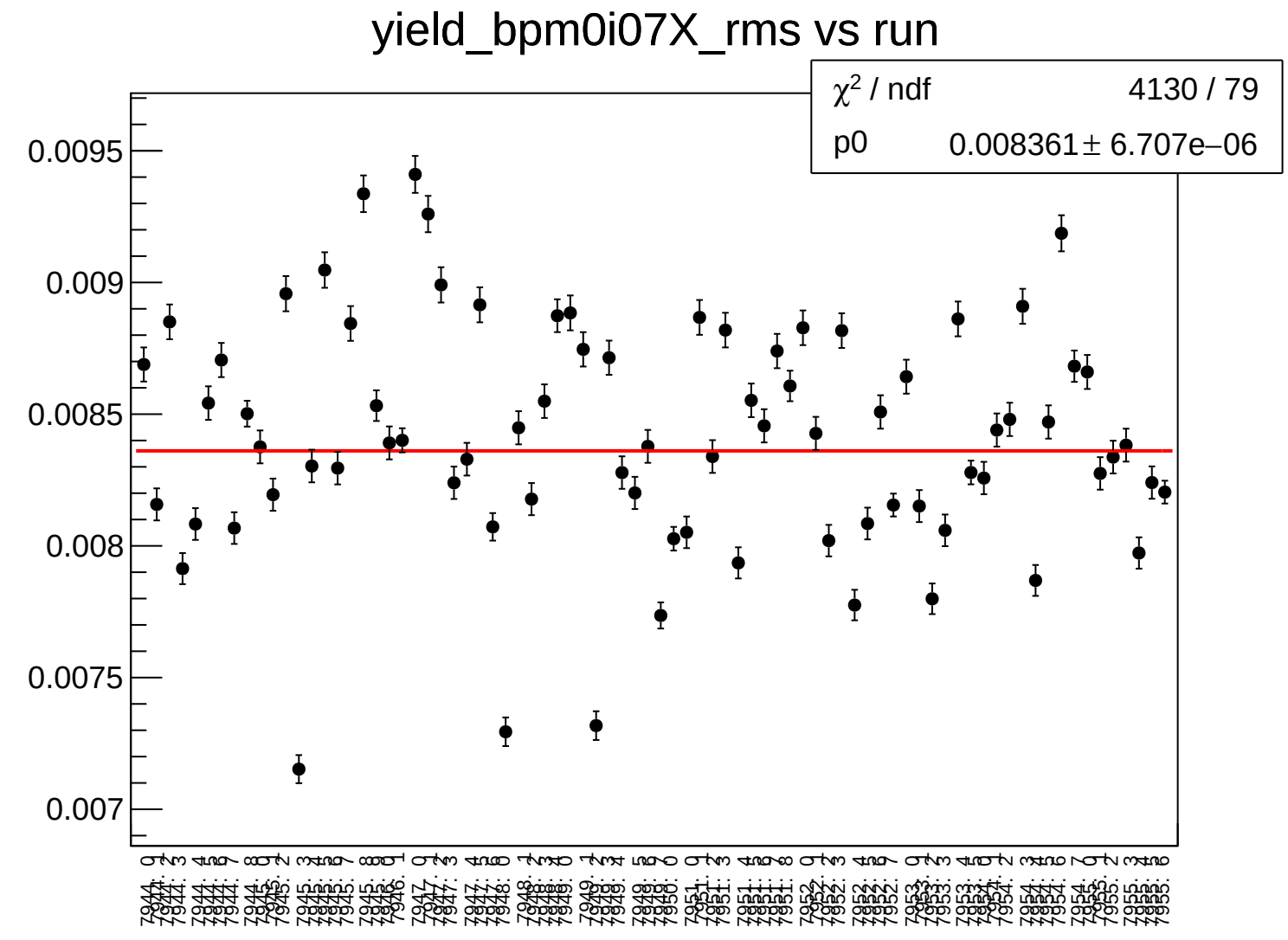

yield_bpm0i05Y_mean vs run
χ² / ndf 6.529e+06 / 79
p0 −1.188 ± 4.361e−06
−1.16
−1.165
−1.17
−1.175
−1.18
−1.185
−1.19
−1.195
−1.2
−1.205
pull
Entries 80
Mean −667.8
Std Dev 701.3
600
400
200
0
−200
−400

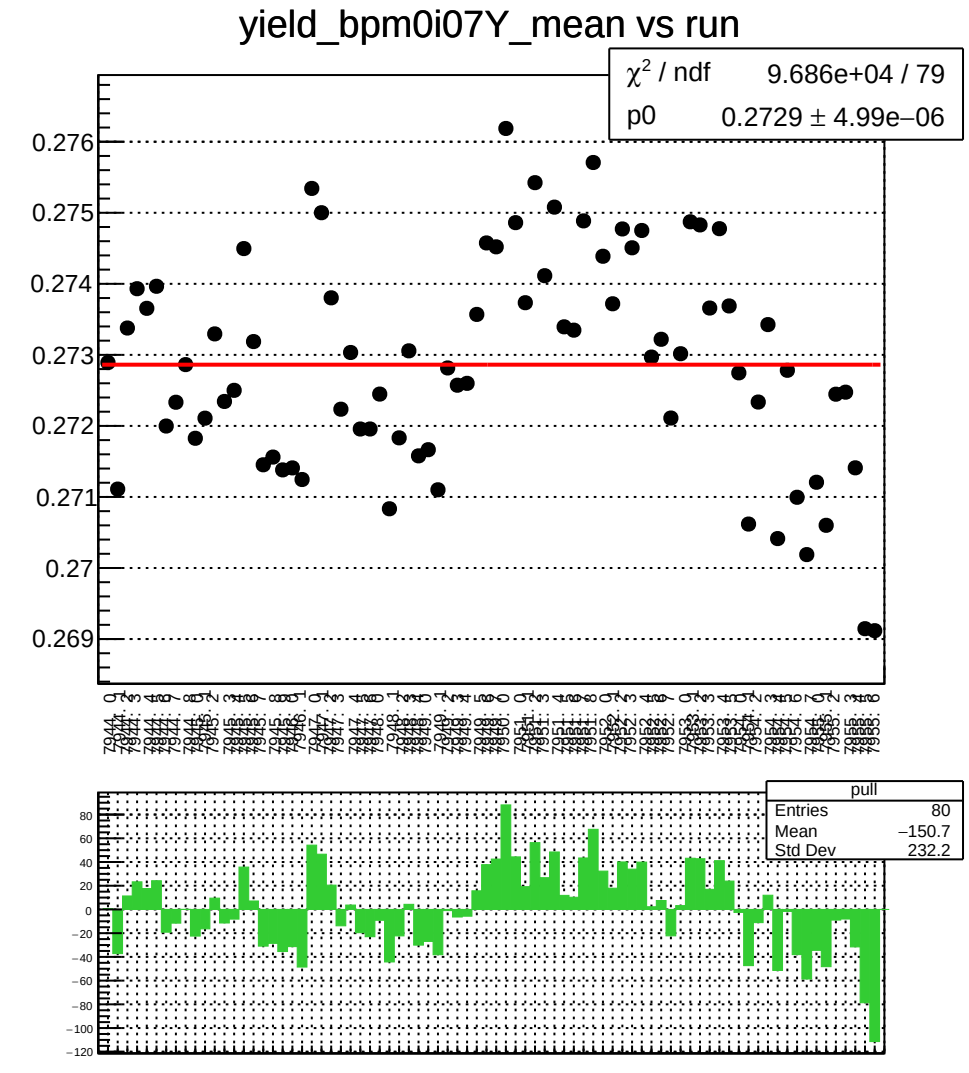

pull1D
Entries 80
Mean −0.8594
Std Dev 2.77
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

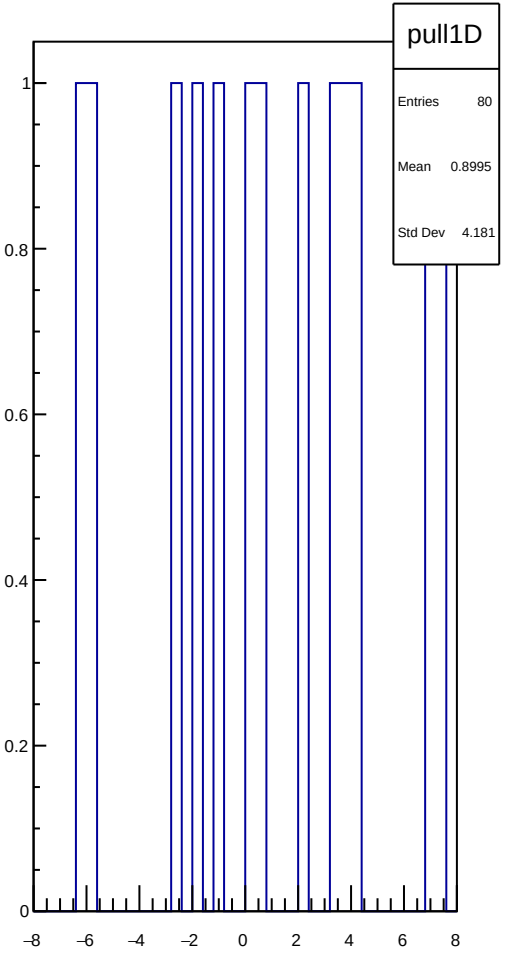

yield_bpm0i05Y_rms vs run
χ^2 / ndf 8.159e+04 / 79
p0 0.003747 ± 3.084e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

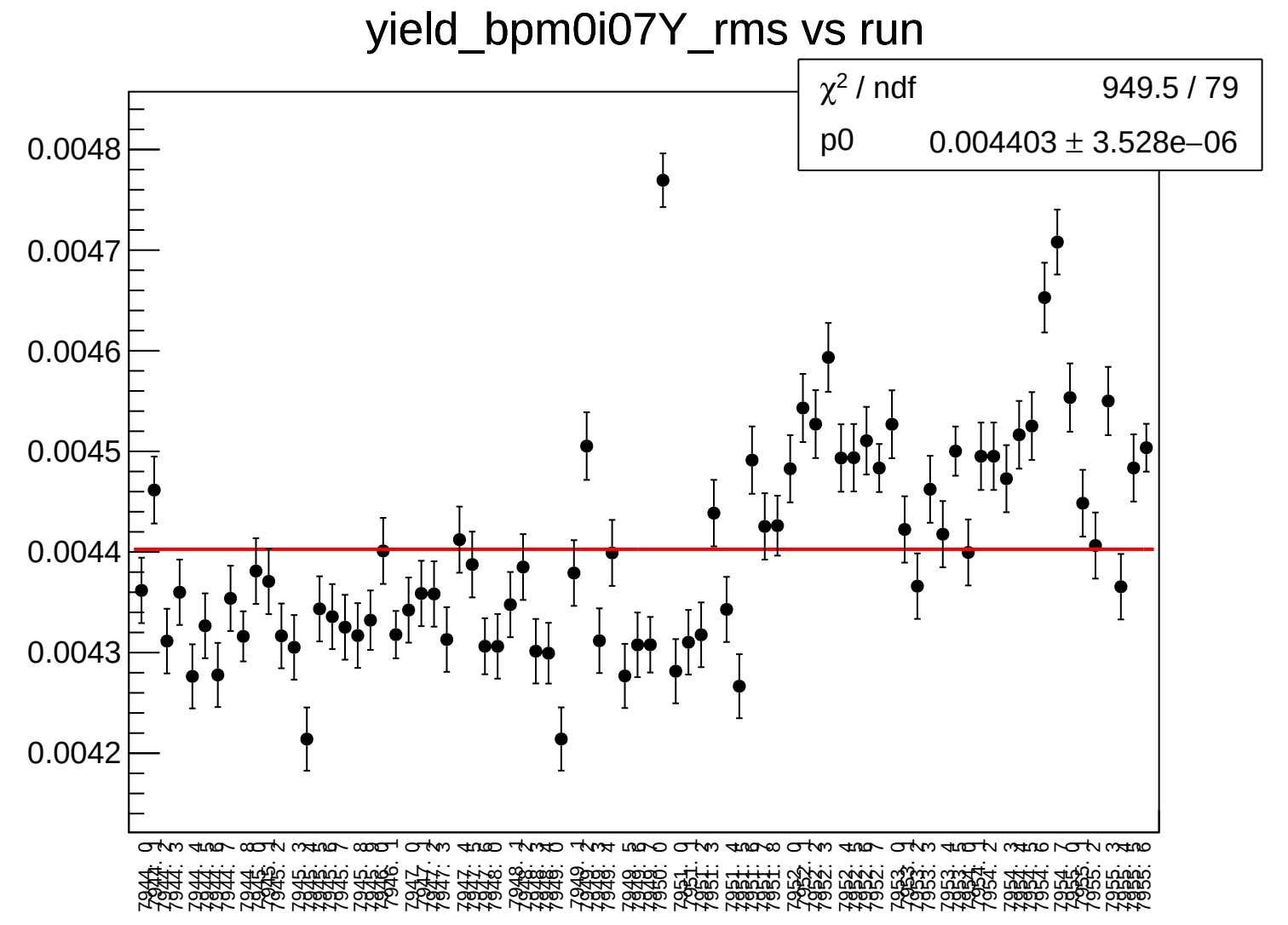

yield_bpm0i07X_mean vs run
χ² / ndf 7.559e+04 / 79
p0 −2.636 ± 9.485e−06
−2.63
−2.632
−2.634
−2.636
−2.638
−2.64
−2.642
pull
Entries 80
Mean 799.3
Std Dev 812.8
60
40
20
0
−20
−40
−60
−80

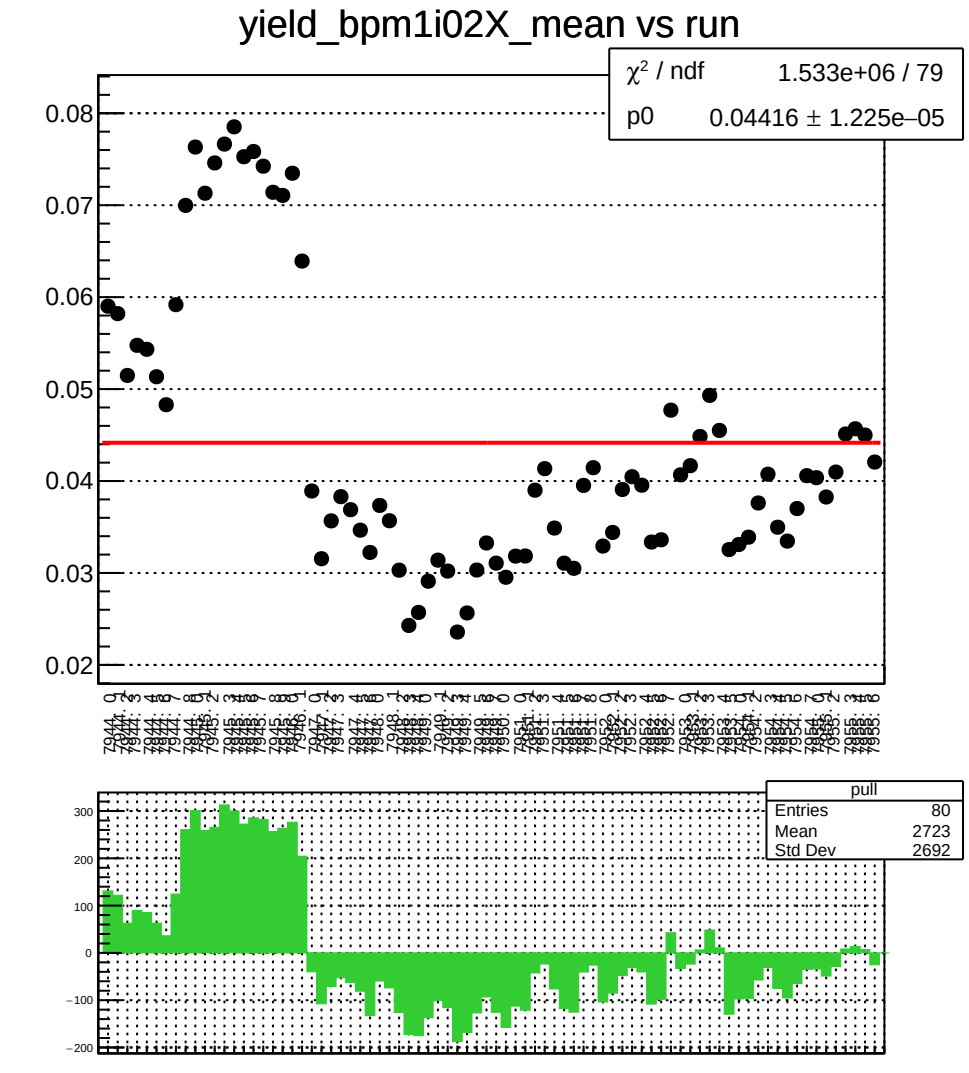

pull1D
Entries 80
Mean −0.9146
Std Dev 3.767
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

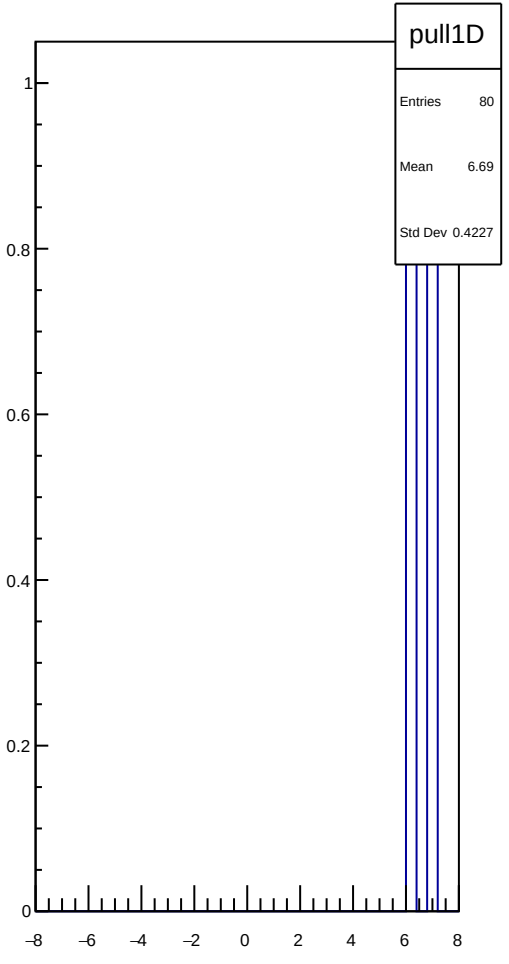

yield_bpm0i07X_rms vs run
χ² / ndf 4130 / 79
p0 0.008361 ± 6.707e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

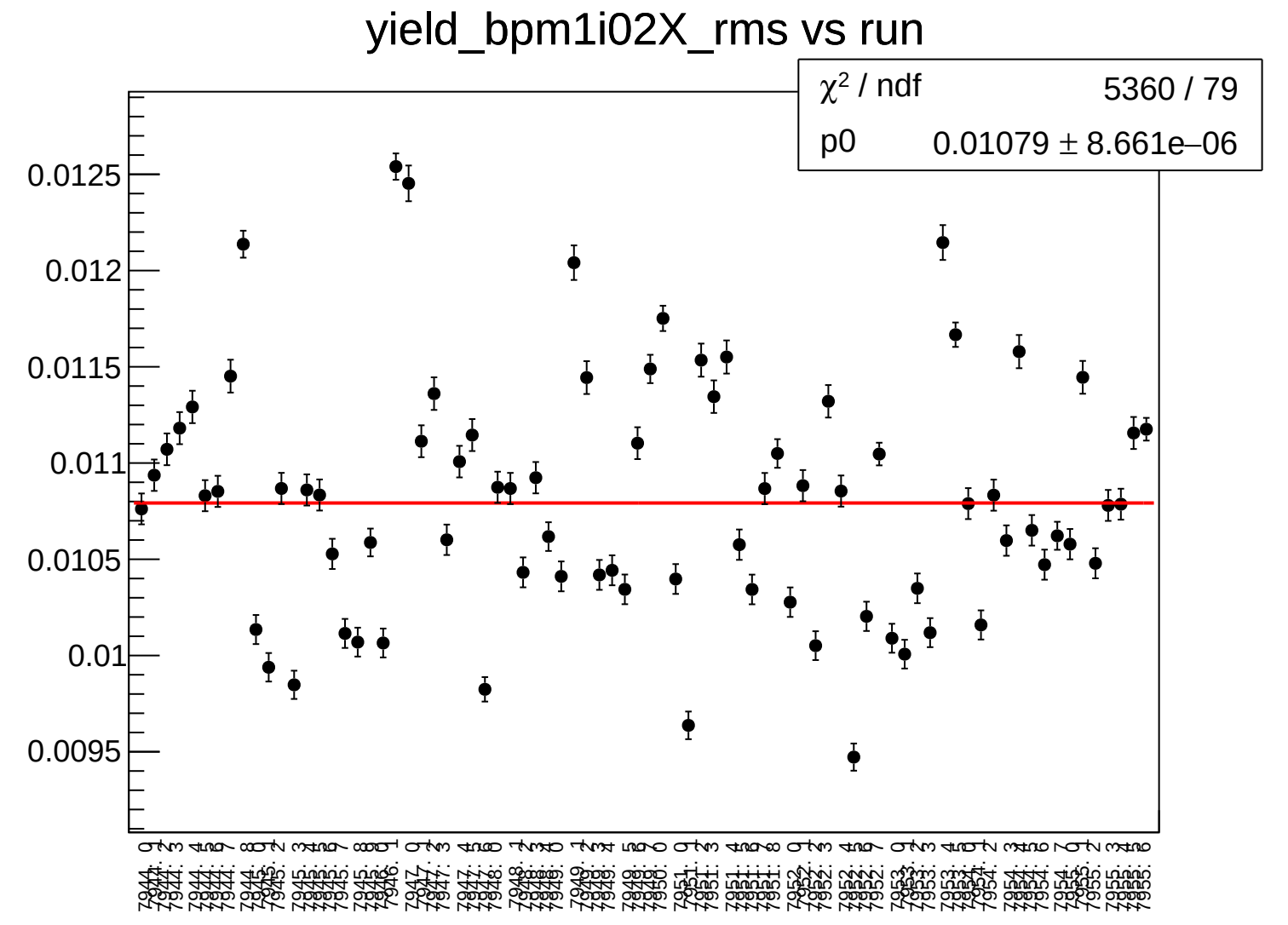

yield_bpm0i07Y_mean vs run
χ² / ndf 9.686e+04 / 79
p0 0.2729 ± 4.99e−06
0.276
0.275
0.274
0.273
0.272
0.271
0.27
0.269
pull
Entries 80
Mean −150.7
Std Dev 232.2
80
60
40
20
0
−20
−40
−60
−80
−100
−120

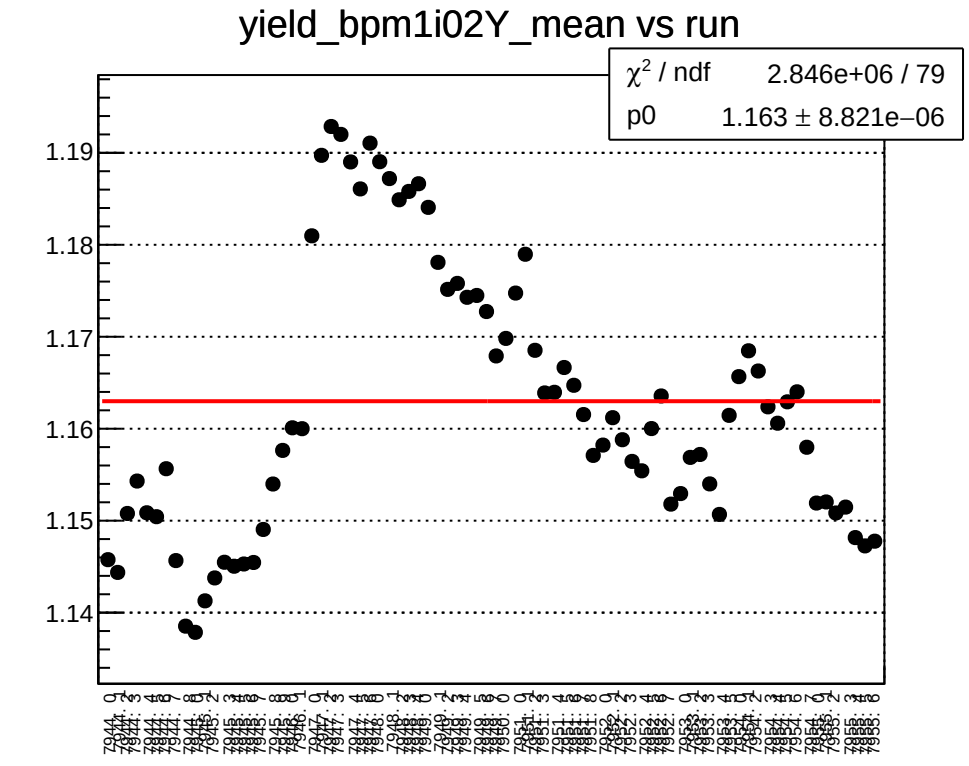

pull1D
Entries 80
Mean 0.8995
Std Dev 4.181
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

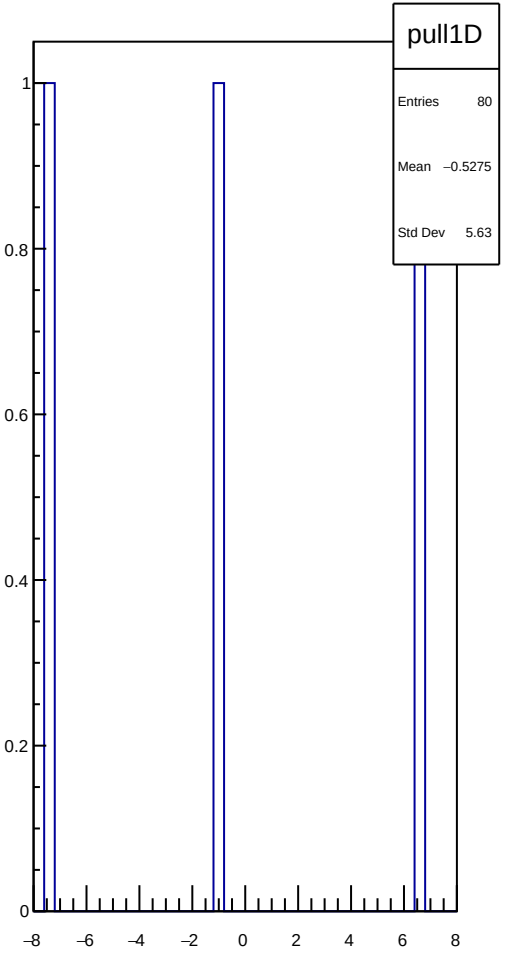

yield_bpm0i07Y_rms vs run
χ² / ndf 949.5 / 79
p0 0.004403 ± 3.528e−06
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043
0.0042

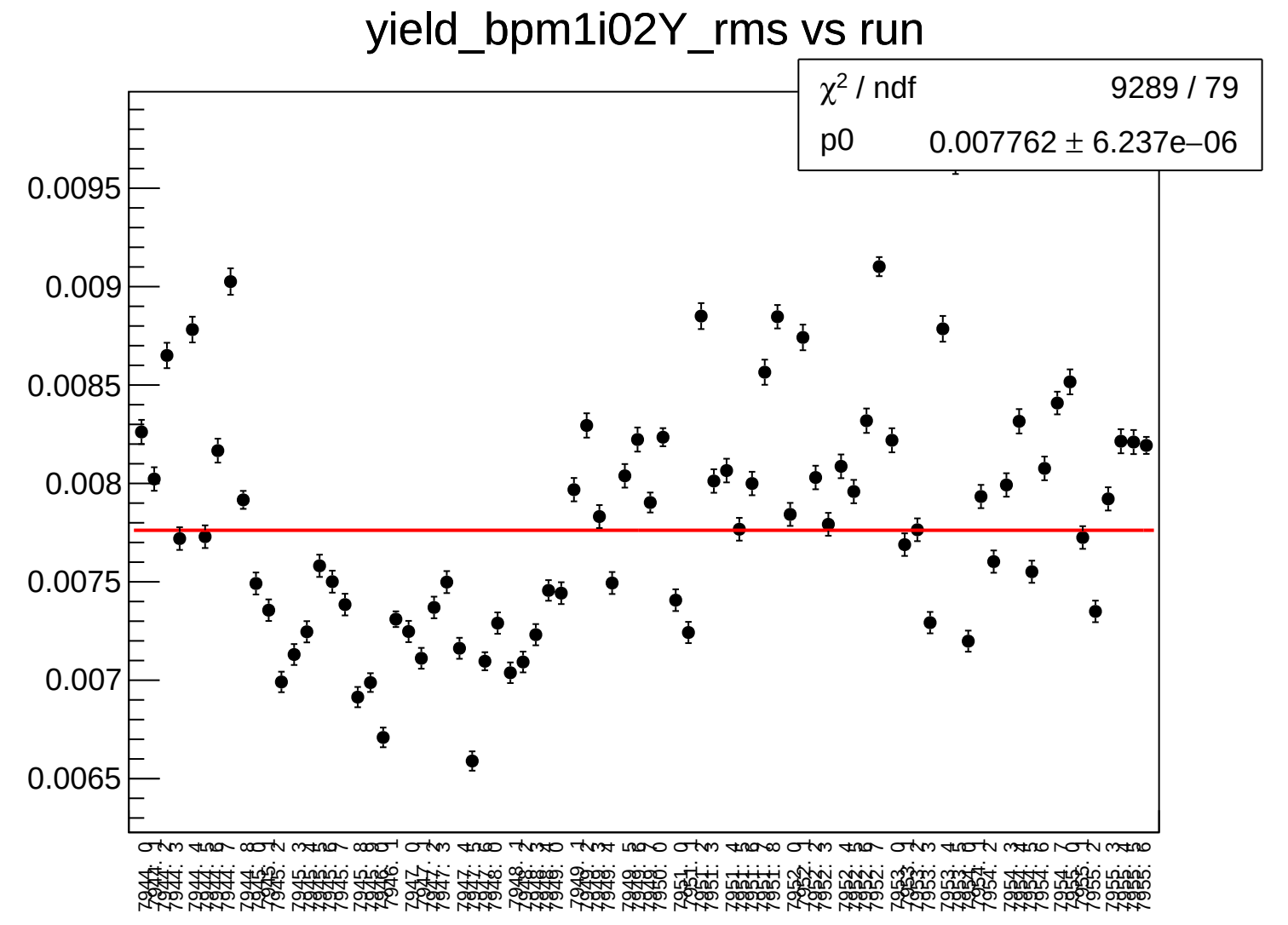

yield_bpm1i02X_mean vs run
χ² / ndf 1.533e+06 / 79
p0 0.04416 ± 1.225e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 80
Mean 2723
Std Dev 2692
300
200
100
0
−100
−200

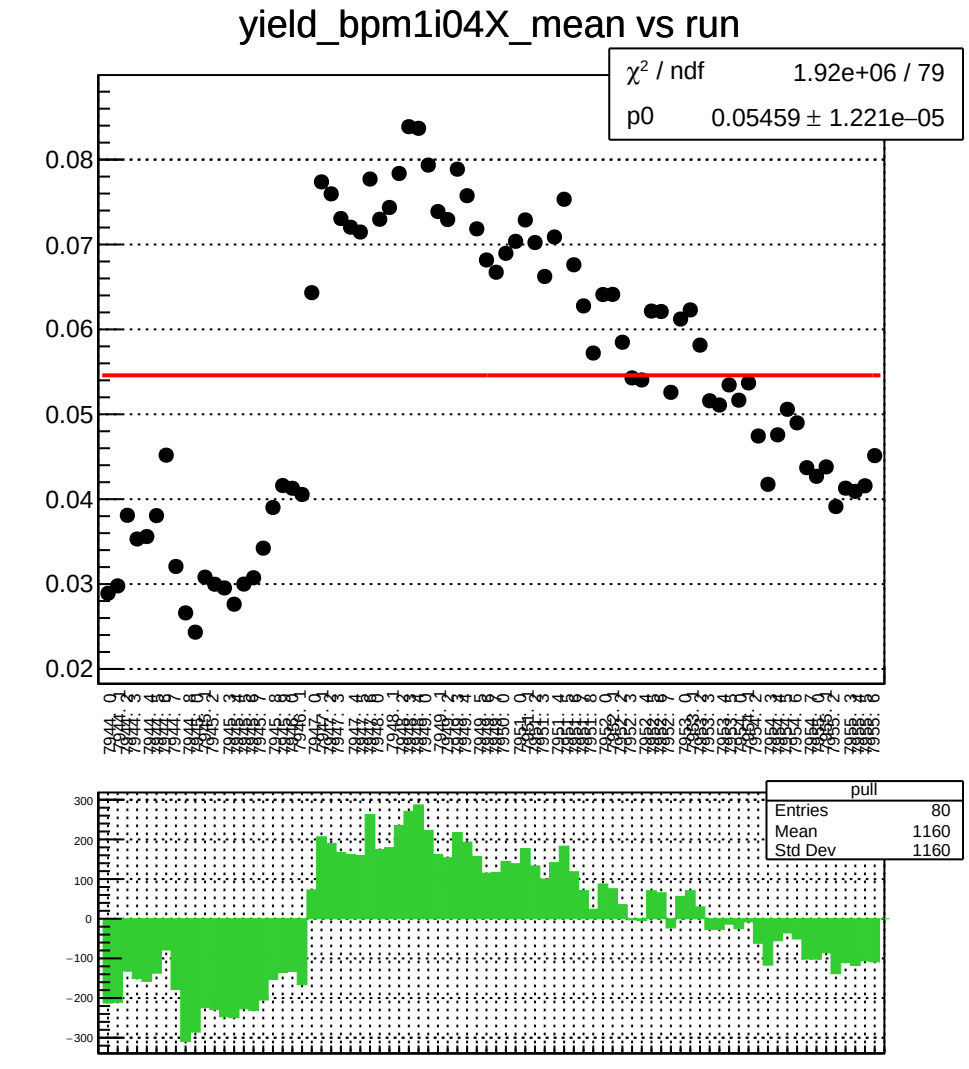

pull1D
Entries 80
Mean 6.69
Std Dev 0.4227
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

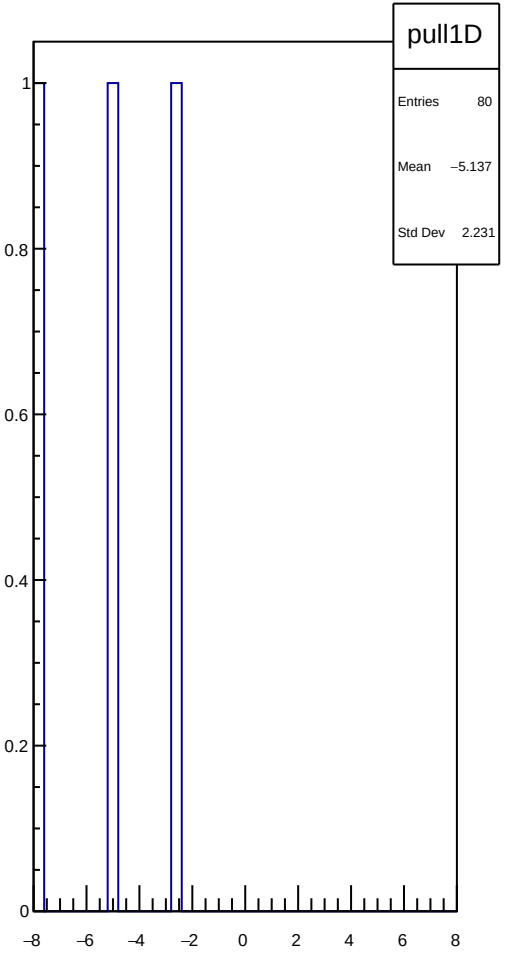

yield_bpm1i02X_rms vs run
χ² / ndf 5360 / 79
p0 0.01079 ± 8.661e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

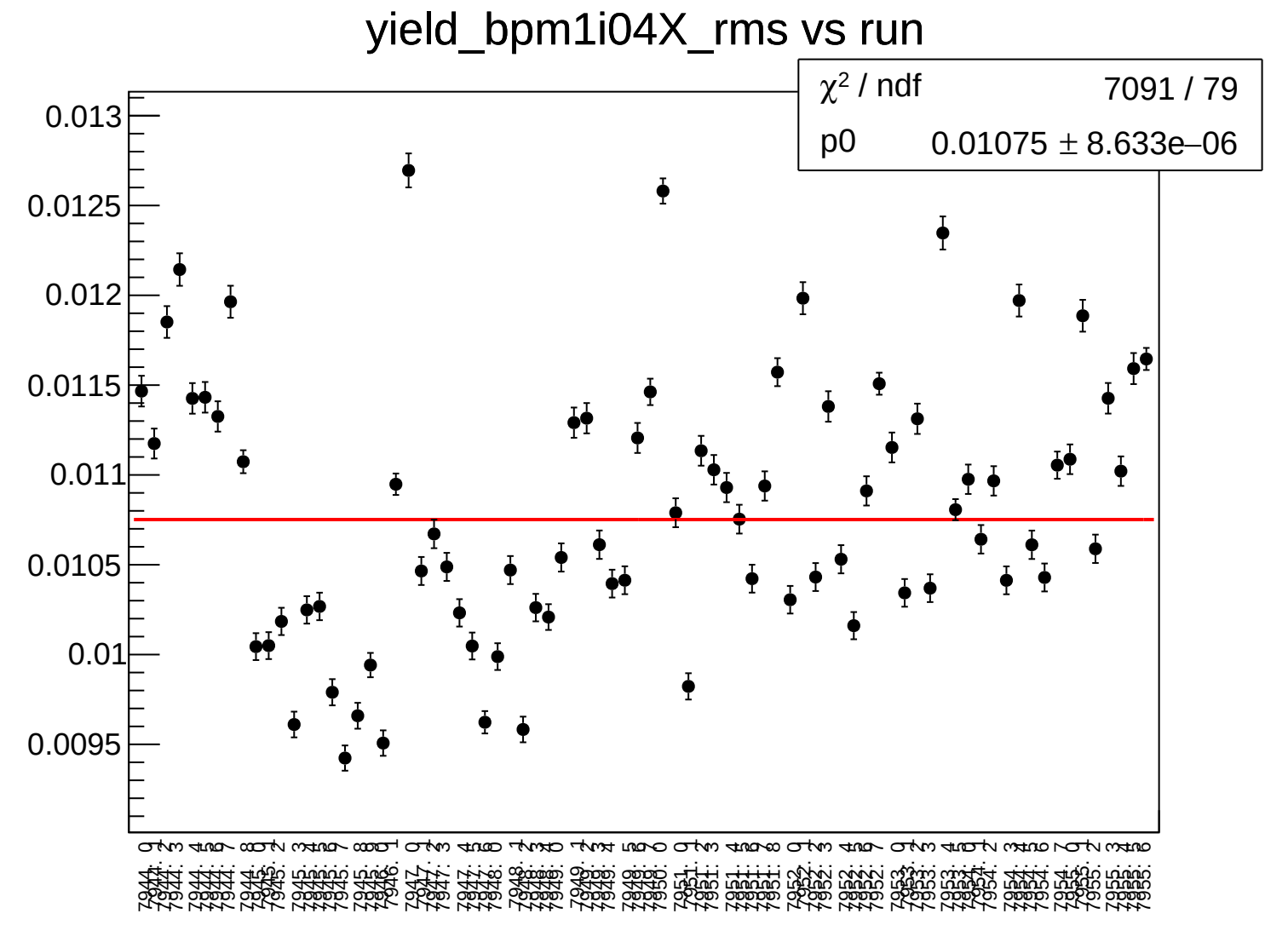

yield_bpm1i02Y_mean vs run
χ² / ndf 2.846e+06 / 79
p0 1.163 ± 8.821e−06
1.19
1.18
1.17
1.16
1.15
1.14
pull
Entries 80
Mean 44.69
Std Dev 156.1
400
300
200
100
0
−100
−200
−300
−400

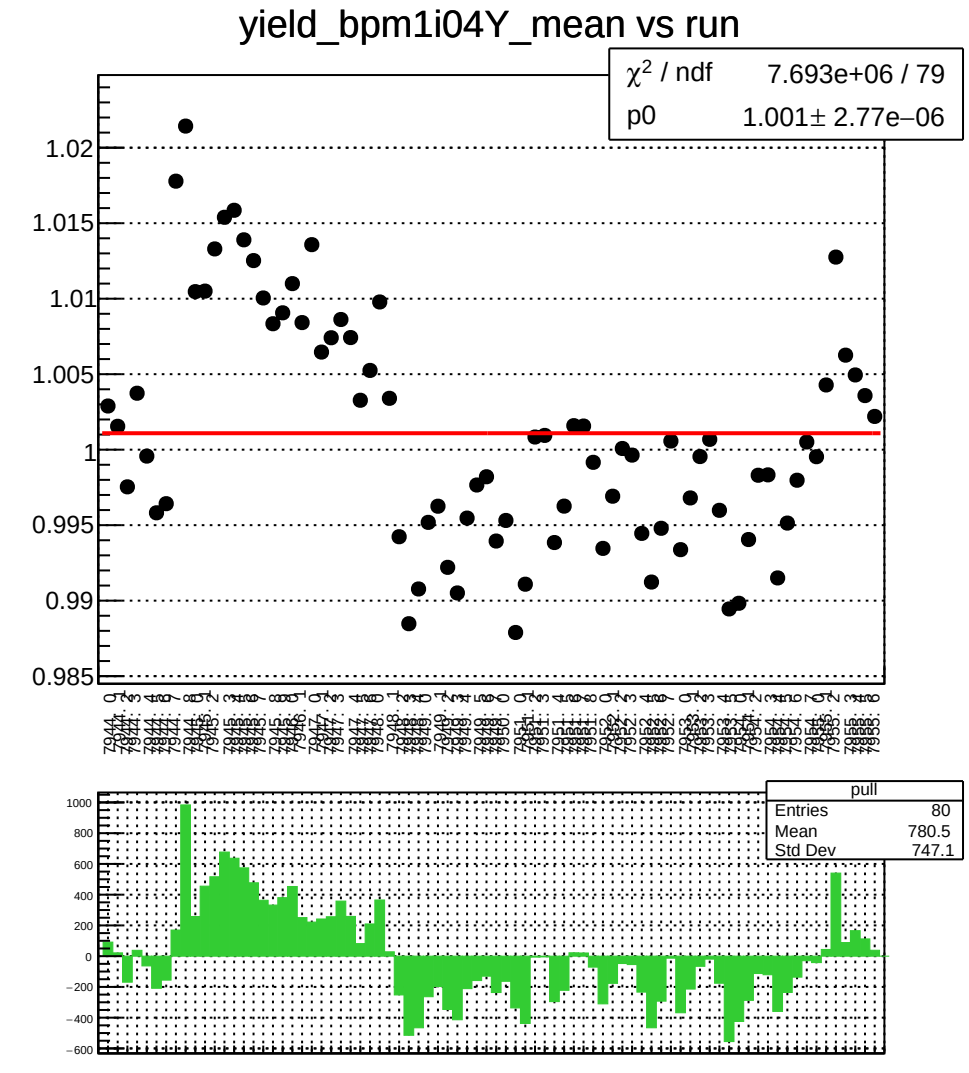

pull1D
Entries 80
Mean −0.5275
Std Dev 5.63
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

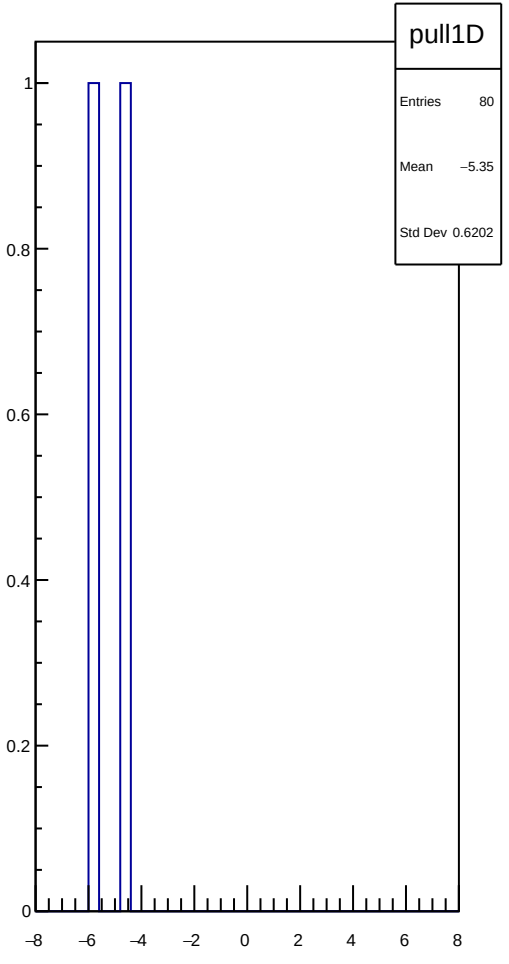

yield_bpm1i02Y_rms vs run
χ² / ndf 9289 / 79
p0 0.007762 ± 6.237e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

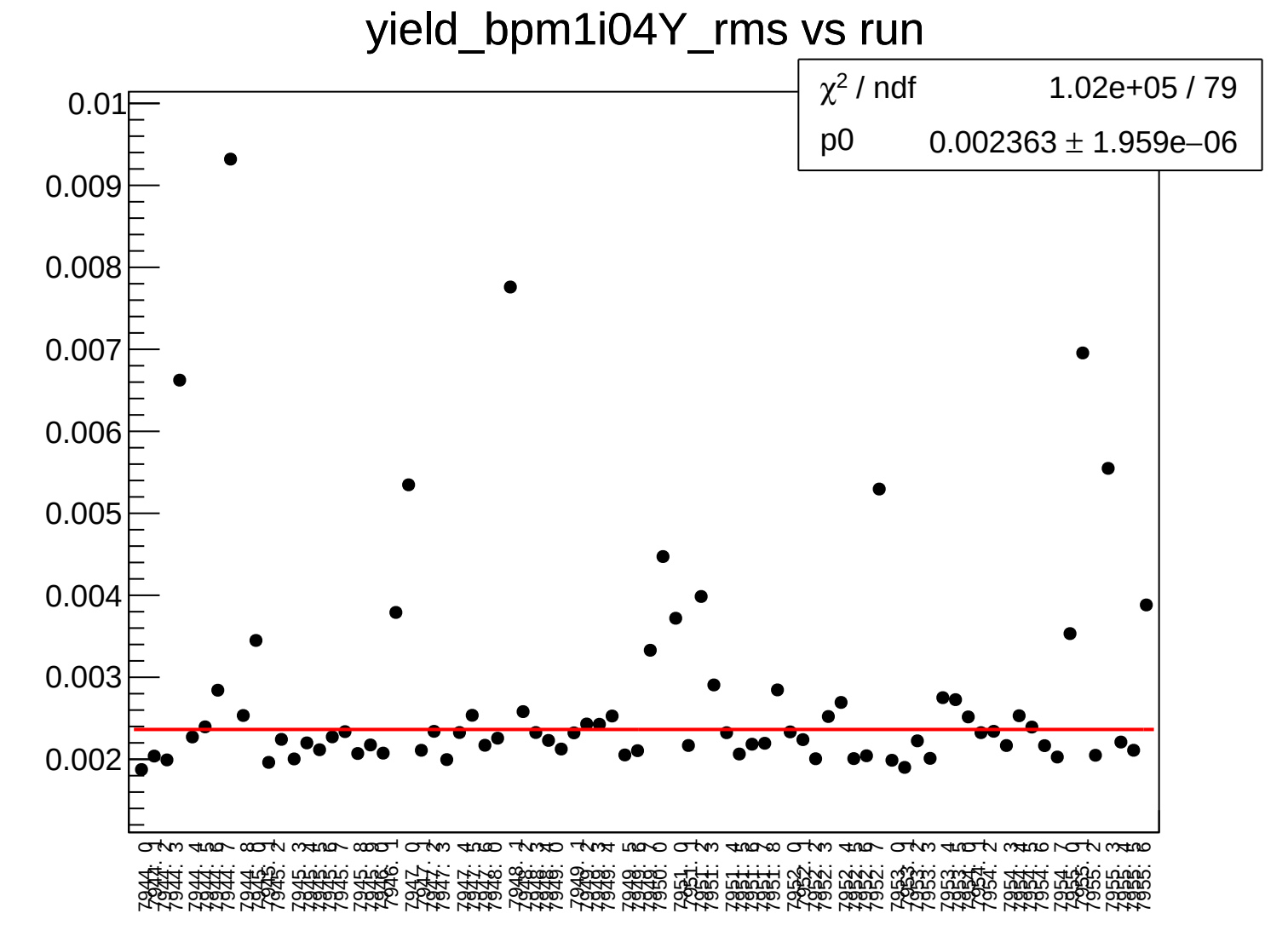

yield_bpm1i04X_mean vs run
χ² / ndf 1.92e+06 / 79
p0 0.05459 ± 1.221e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 80
Mean 1160
Std Dev 1160
300
200
100
0
−100
−200
−300

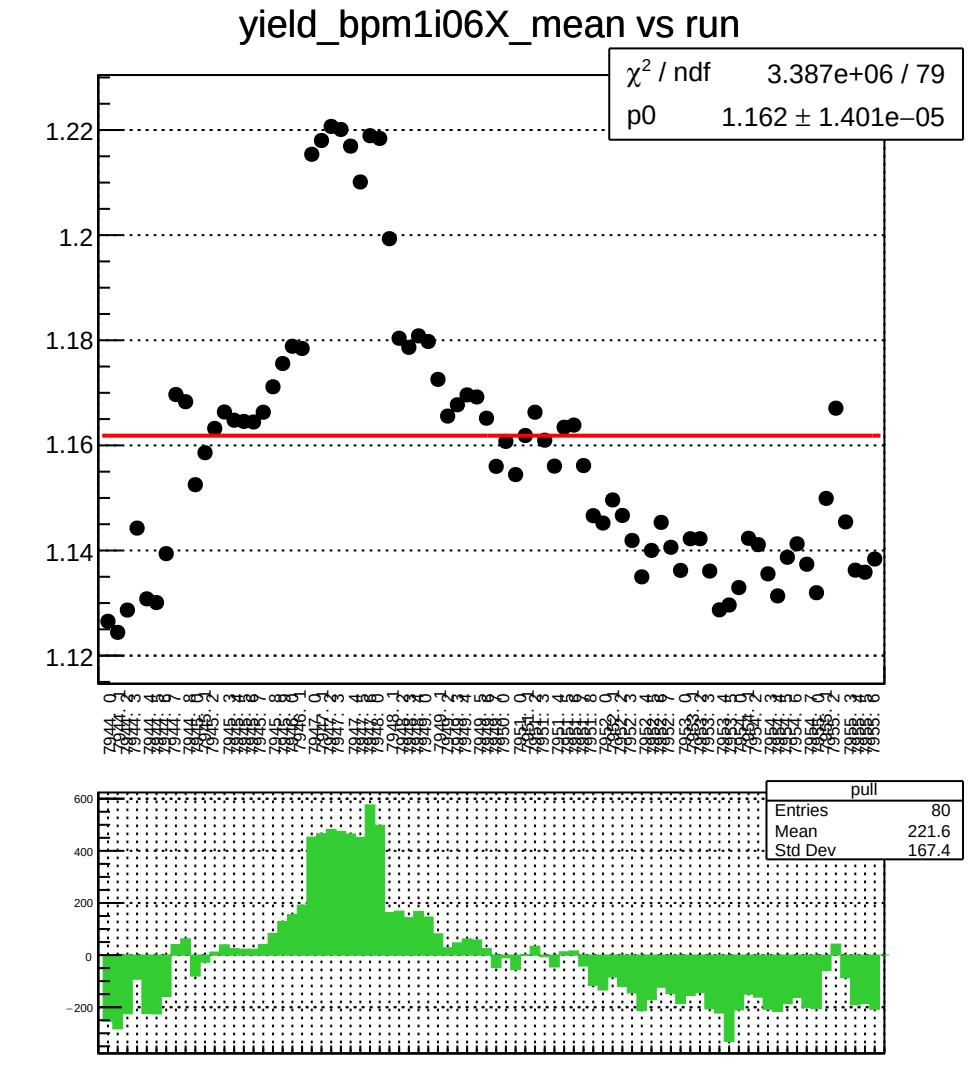

pull1D
Entries 80
Mean −5.137
Std Dev 2.231
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

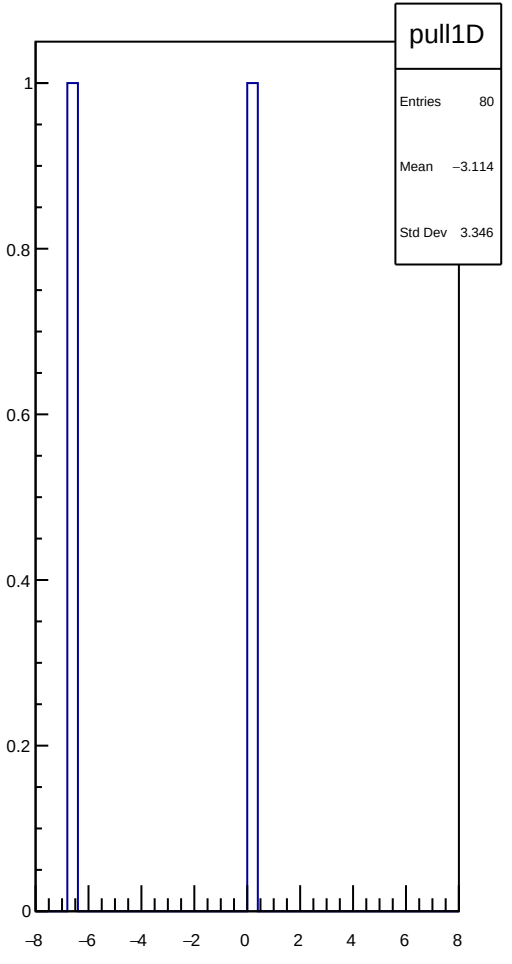

yield_bpm1i04X_rms vs run
χ² / ndf 7091 / 79
p0 0.01075 ± 8.633e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

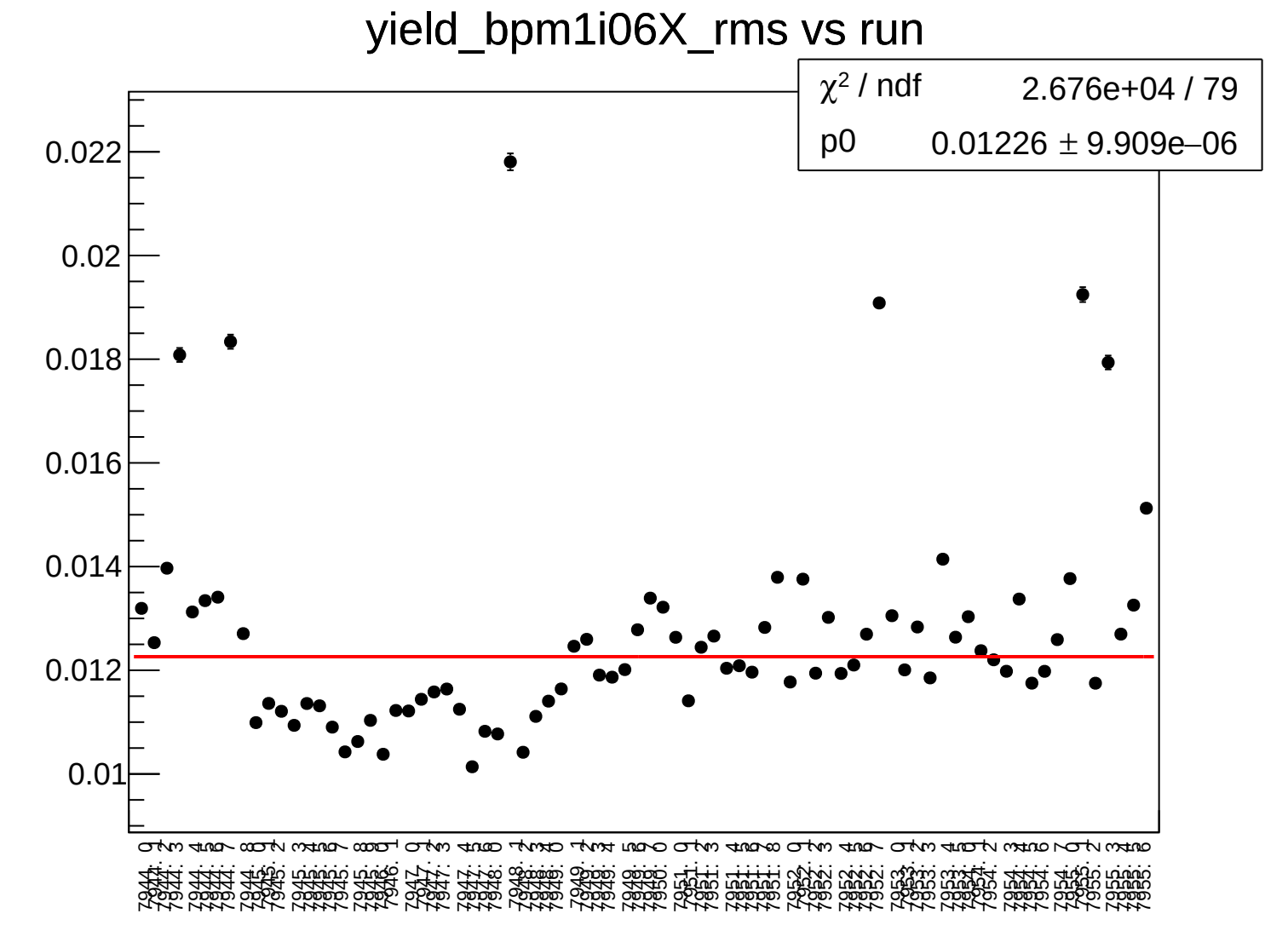

yield_bpm1i04Y_mean vs run
χ² / ndf 7.693e+06 / 79
p0 1.001± 2.77e–06
pull
Entries 80
Mean 780.5
Std Dev 747.1

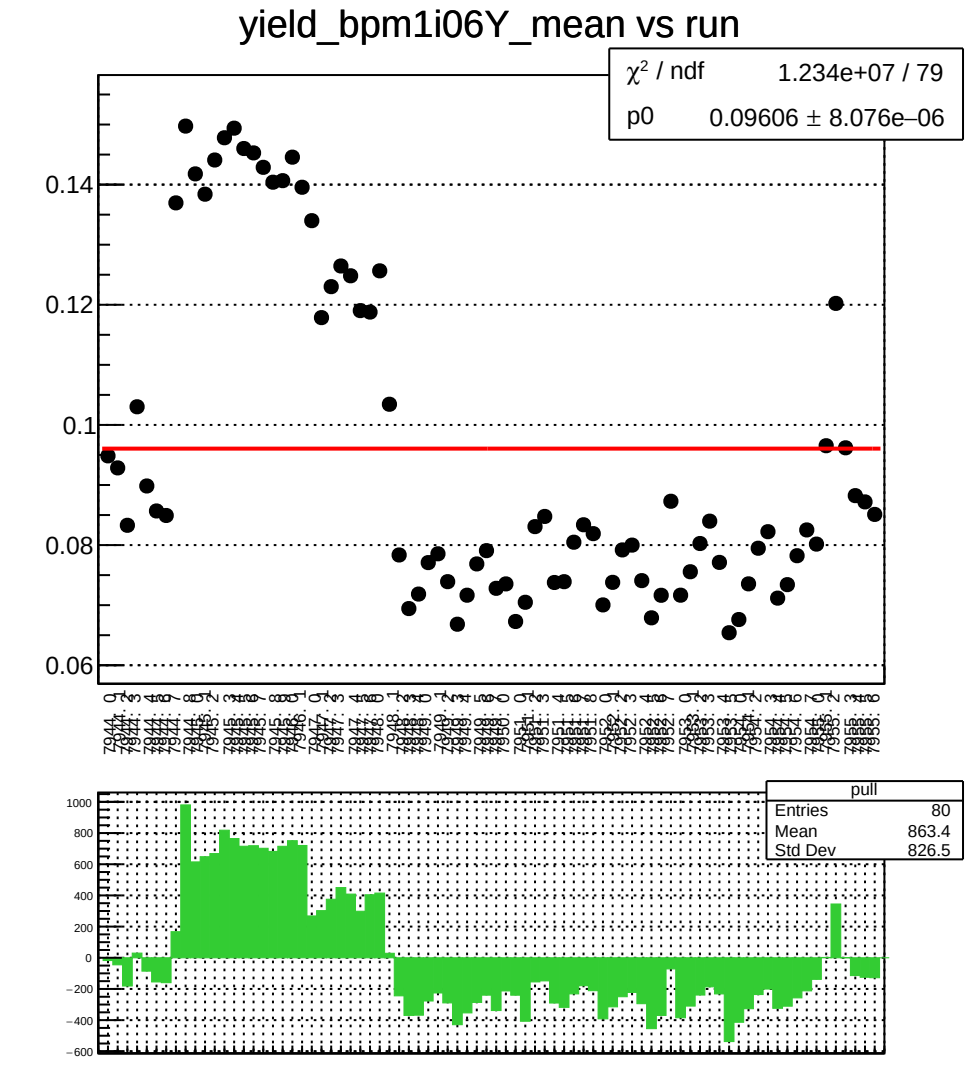

pull1D
Entries 80
Mean –5.35
Std Dev 0.6202

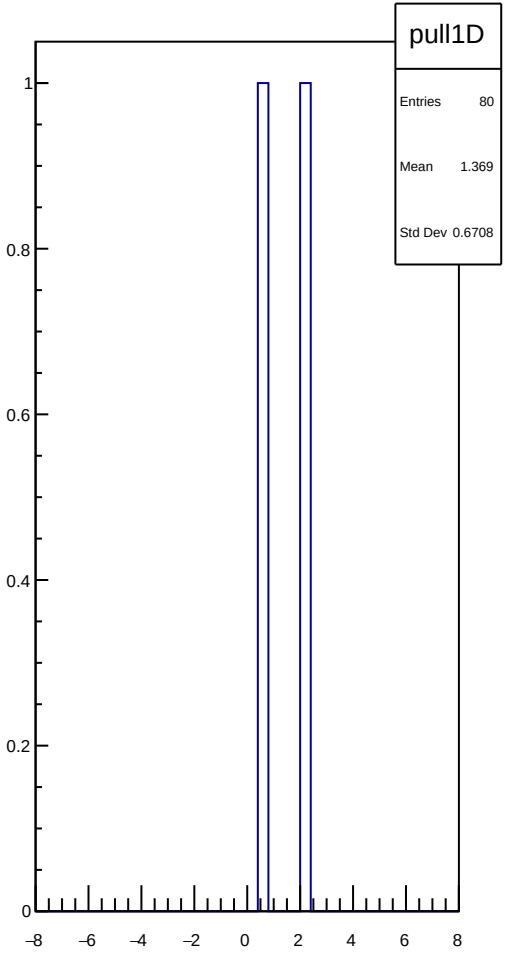

yield_bpm1i04Y_rms vs run
χ² / ndf 1.02e+05 / 79
p0 0.002363 ± 1.959e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

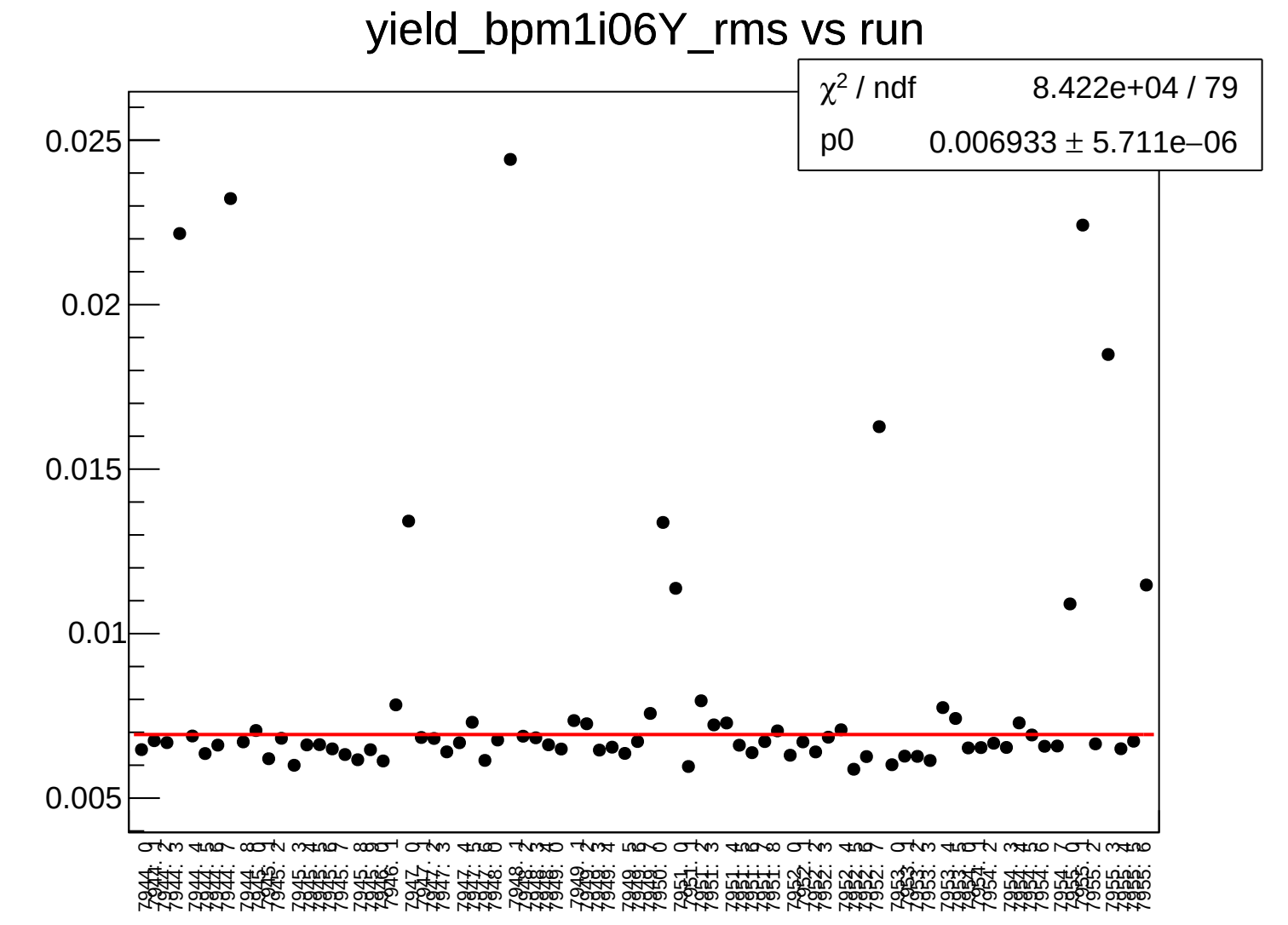

yield_bpm1i06X_mean vs run
χ² / ndf 3.387e+06 / 79
p0 1.162 ± 1.401e−05
1.22
1.2
1.18
1.16
1.14
1.12
pull
Entries 80
Mean 221.6
Std Dev 167.4
600
400
200
0
−200

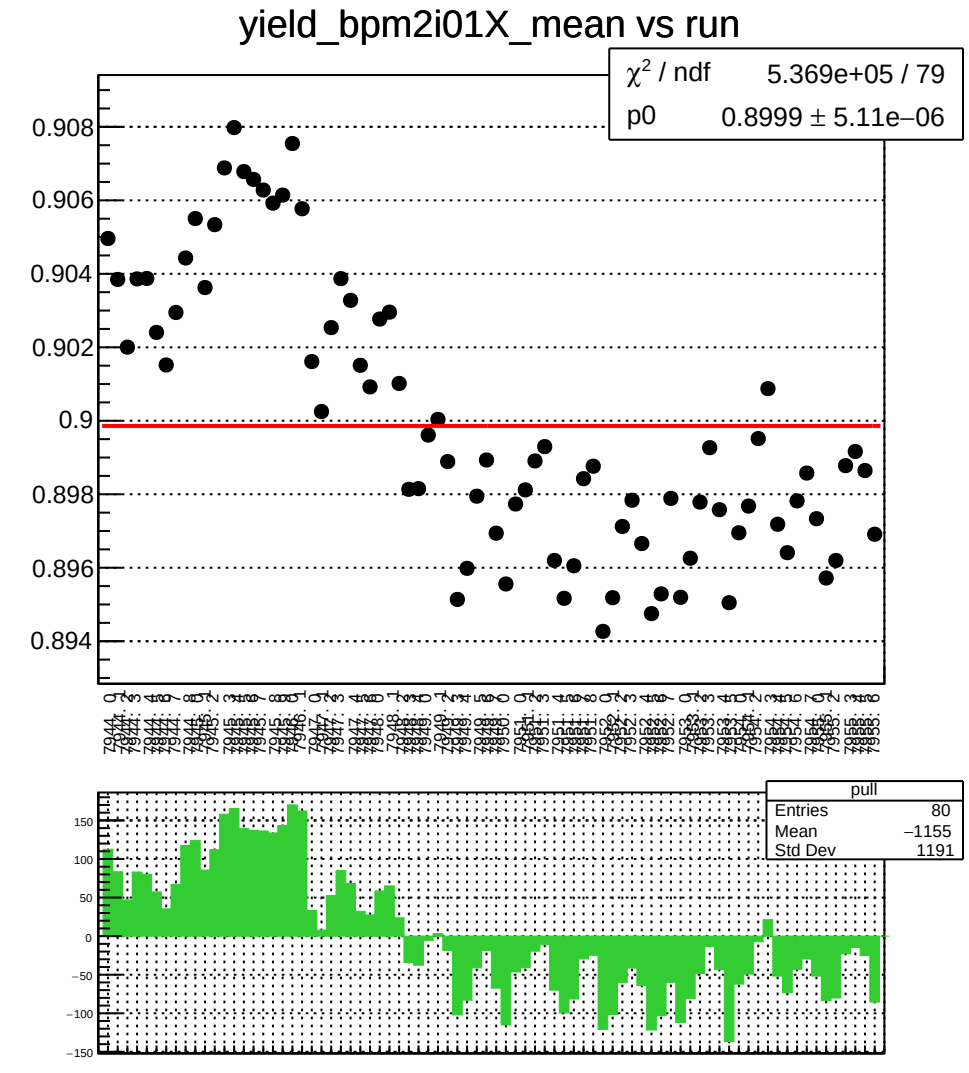

pull1D
Entries 80
Mean −3.114
Std Dev 3.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

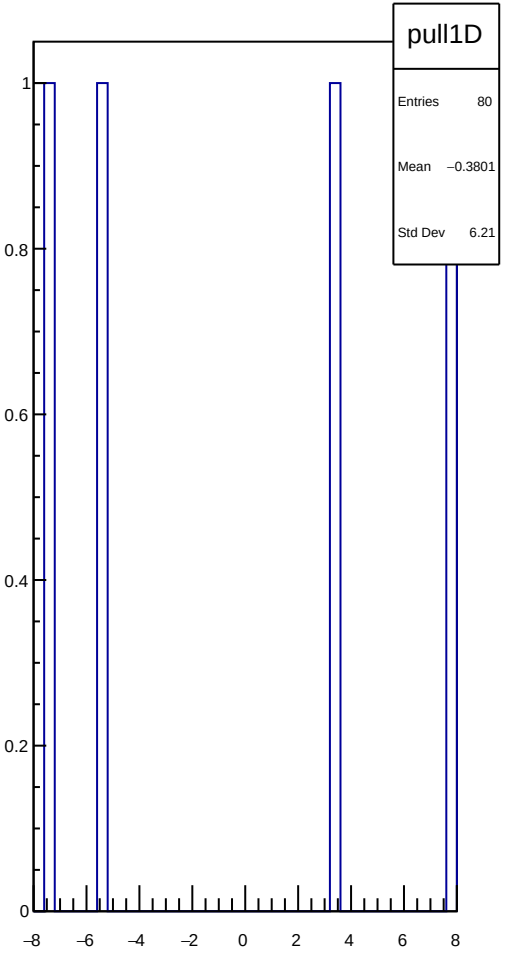

yield_bpm1i06X_rms vs run
χ² / ndf 2.676e+04 / 79
p0 0.01226 ± 9.909e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

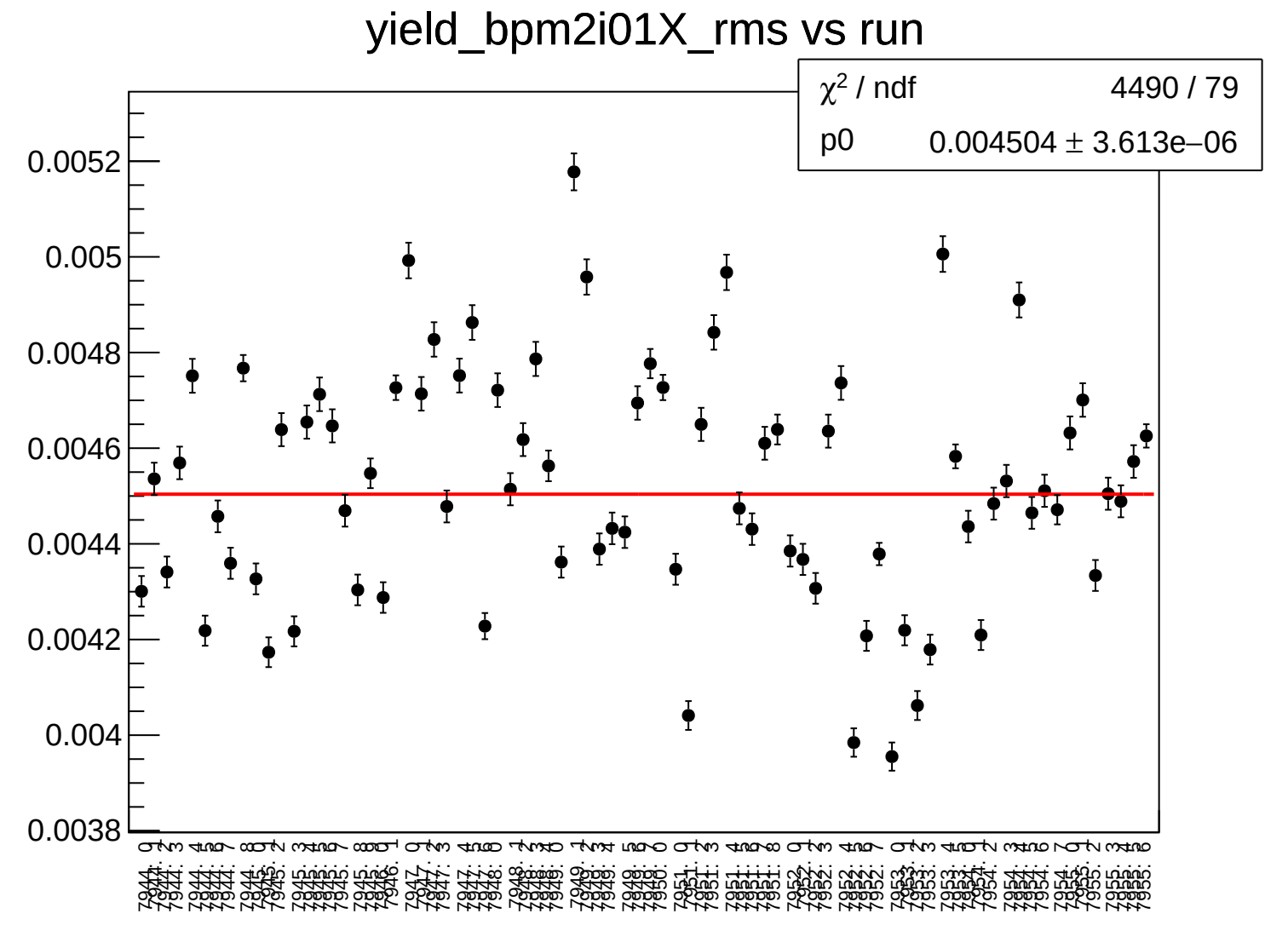

yield_bpm1i06Y_mean vs run
χ² / ndf 1.234e+07 / 79
p0 0.09606 ± 8.076e−06
0.14
0.12
0.1
0.08
0.06
pull
Entries 80
Mean 863.4
Std Dev 826.5
1000
800
600
400
200
0
−200
−400
−600

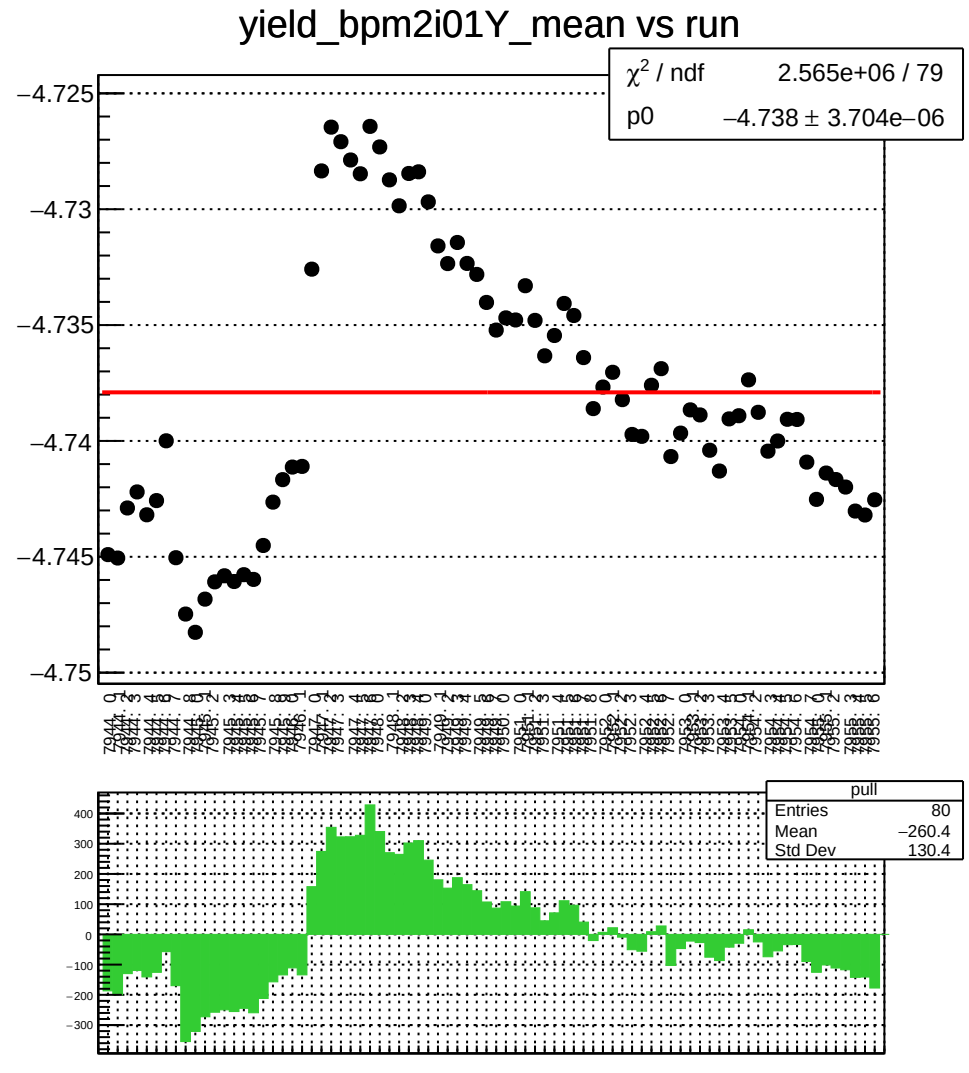

pull1D
Entries 80
Mean 1.369
Std Dev 0.6708
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

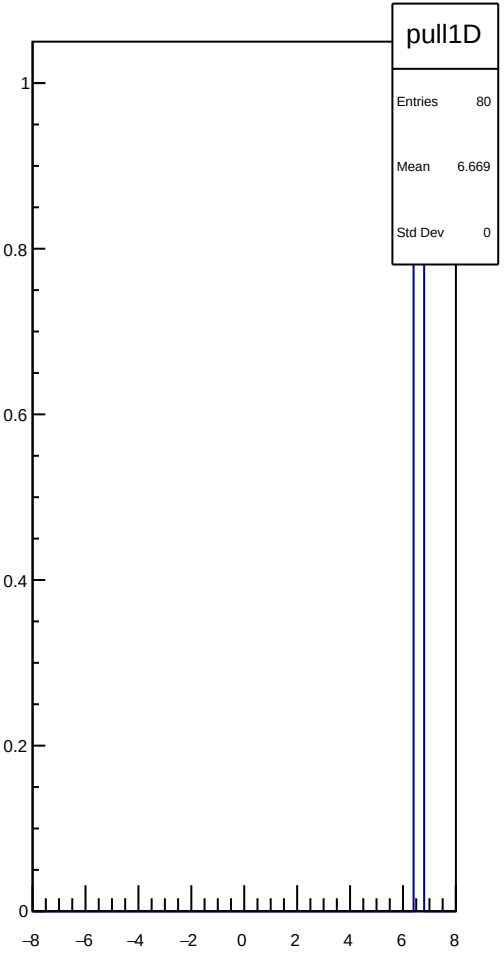

yield_bpm1i06Y_rms vs run
χ² / ndf 8.422e+04 / 79
p0 0.006933 ± 5.711e−06
0.025
0.02
0.015
0.01
0.005

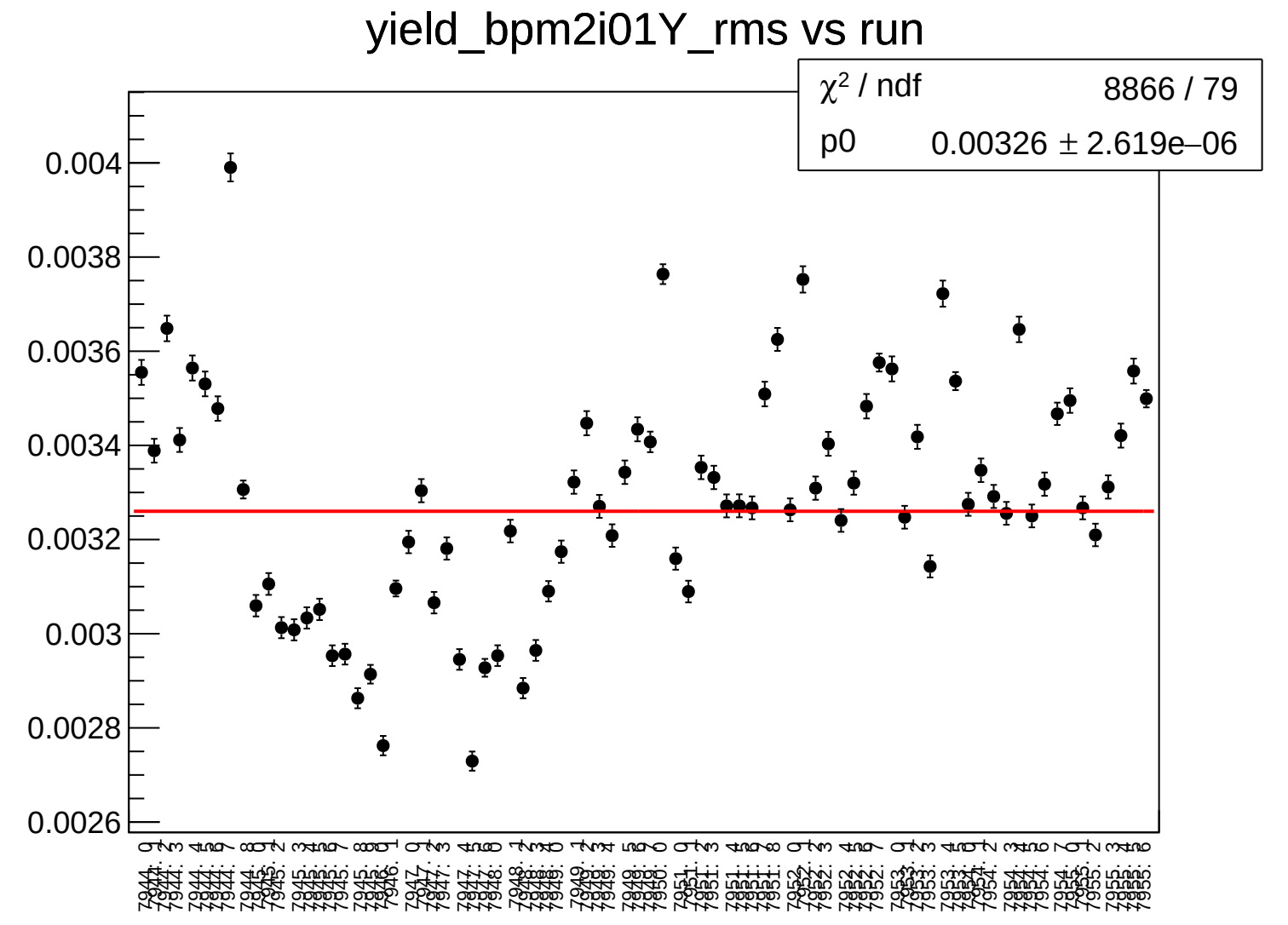

yield_bpm2i01X_mean vs run
χ² / ndf 5.369e+05 / 79
p0 0.8999 ± 5.11e−06
0.908
0.906
0.904
0.902
0.9
0.898
0.896
0.894
pull
Entries 80
Mean −1155
Std Dev 1191
150
100
50
0
−50
−100
−150

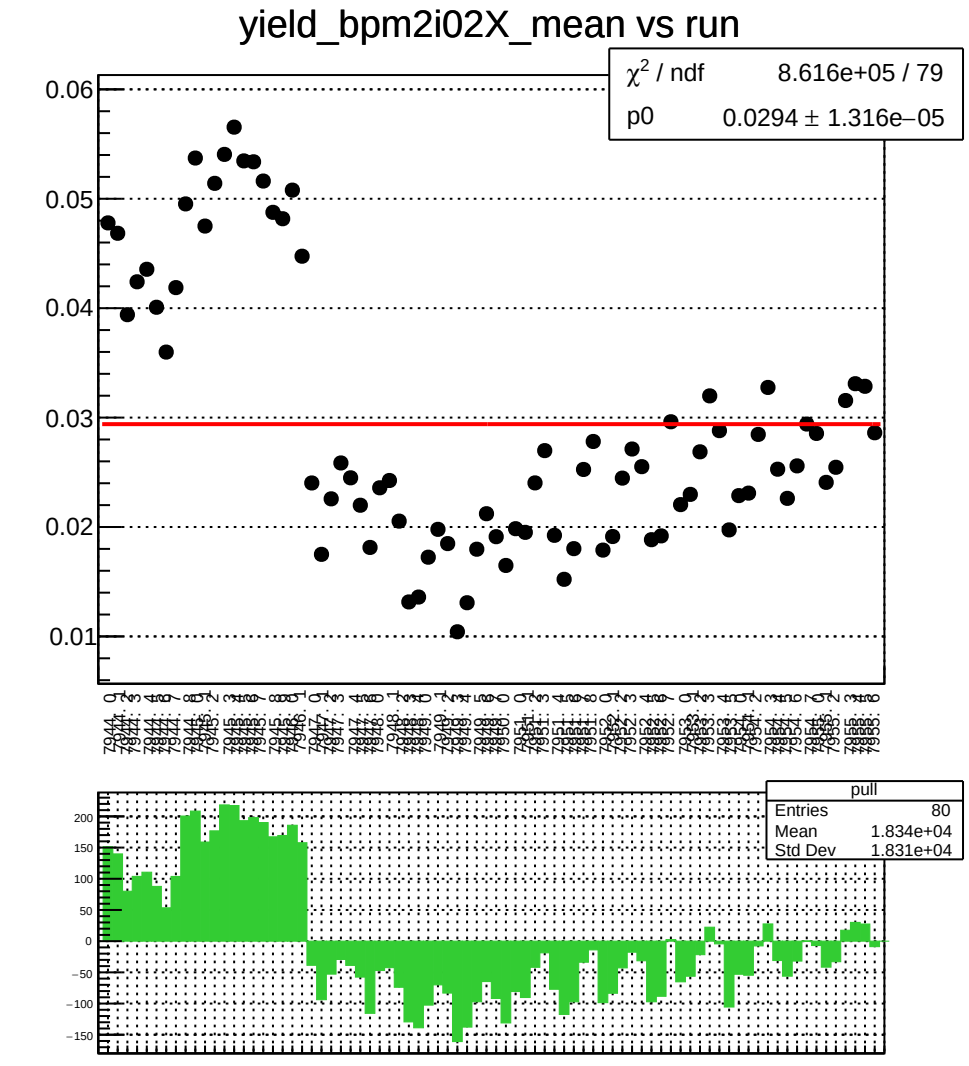

pull1D
Entries 80
Mean −0.3801
Std Dev 6.21
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

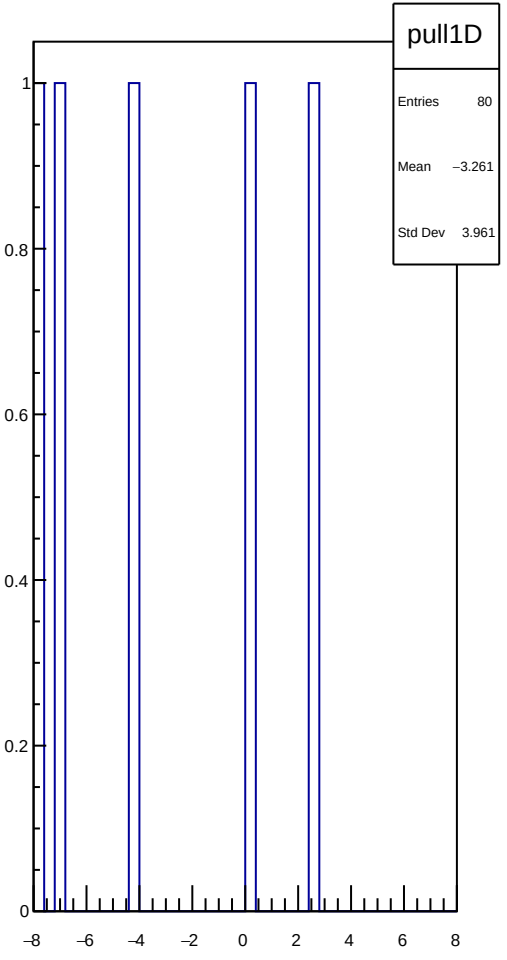

yield_bpm2i01X_rms vs run
χ² / ndf 4490 / 79
p0 0.004504 ± 3.613e−06
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038

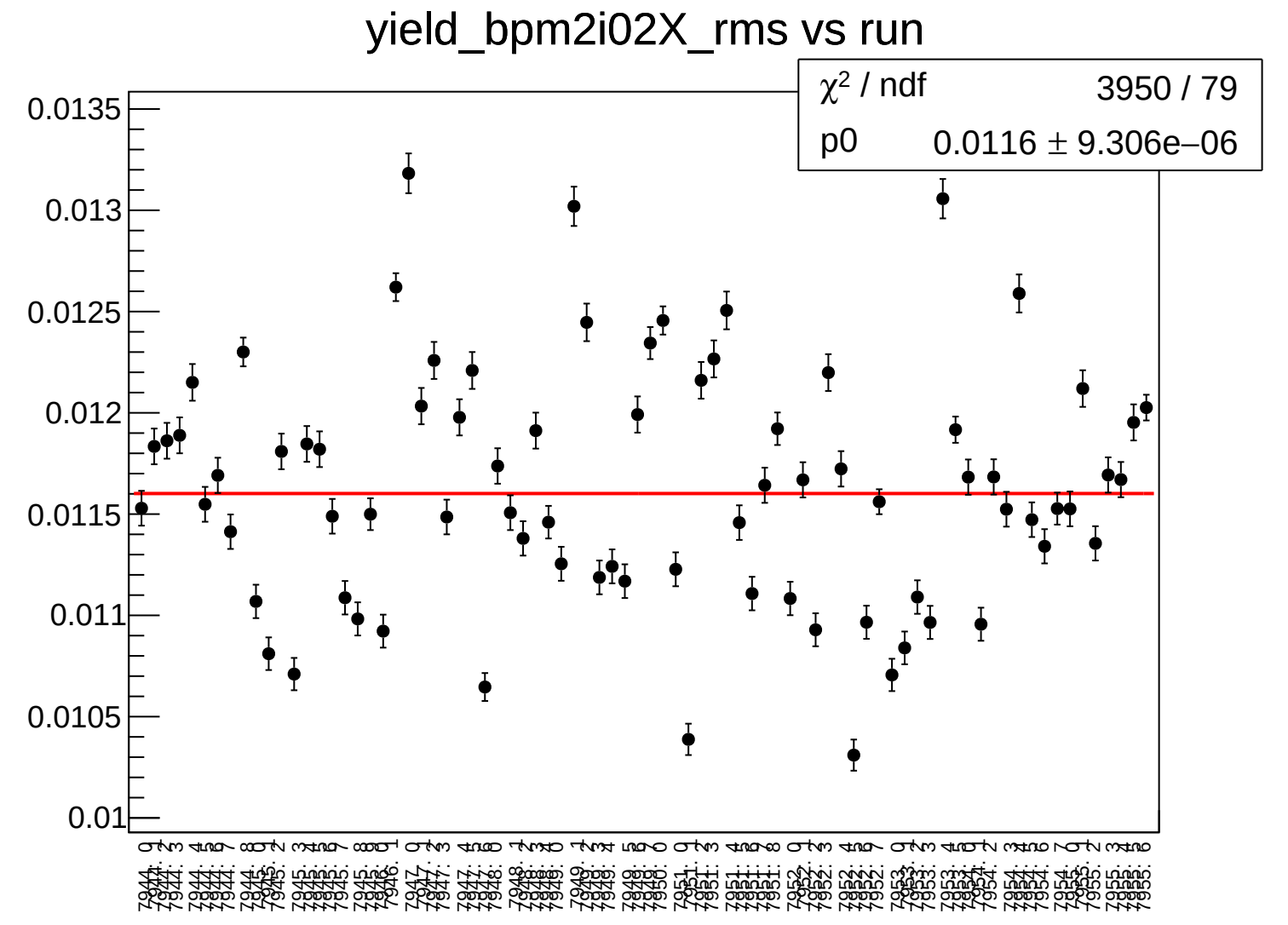

yield_bpm2i01Y_mean vs run
χ² / ndf 2.565e+06 / 79
p0 −4.738 ± 3.704e−06
−4.725
−4.73
−4.735
−4.74
−4.745
−4.75
pull
Entries 80
Mean −260.4
Std Dev 130.4
400
300
200
100
0
−100
−200
−300

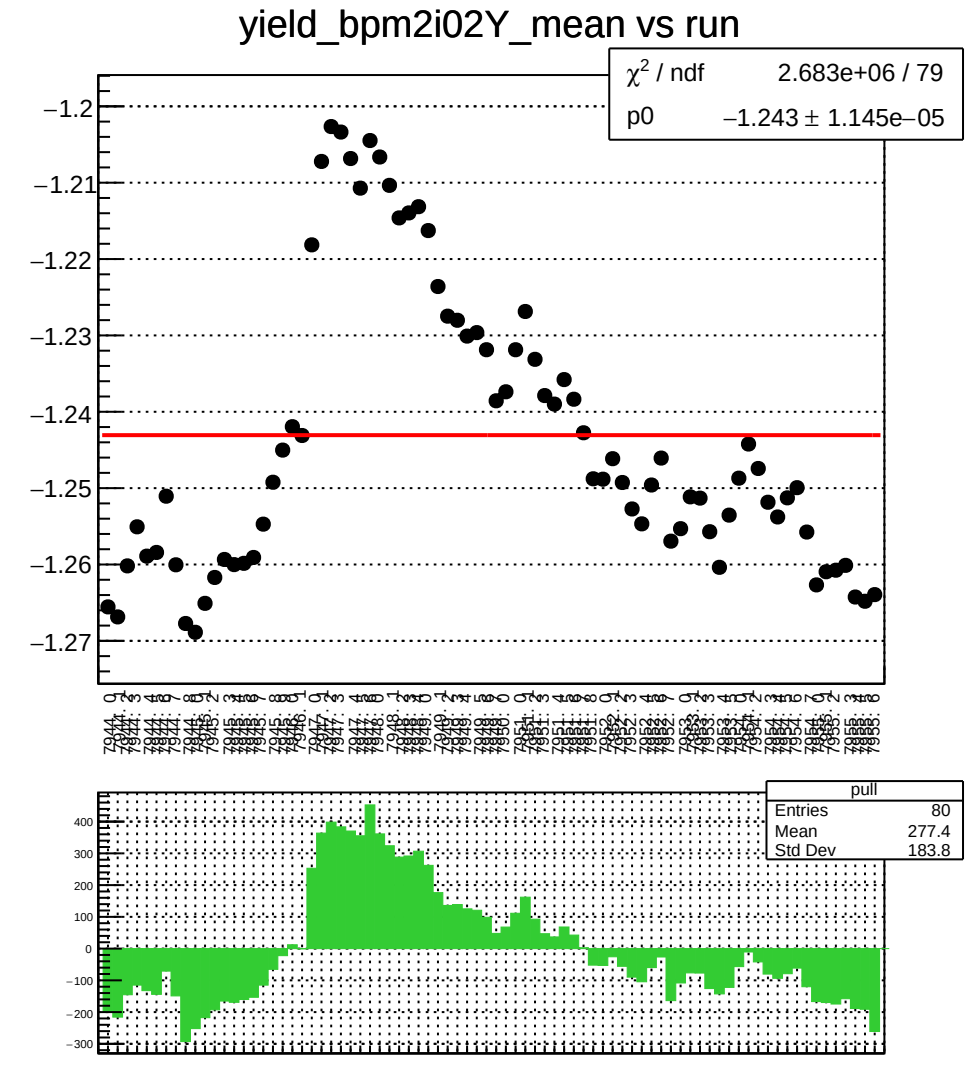

pull1D
Entries 80
Mean 6.669
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

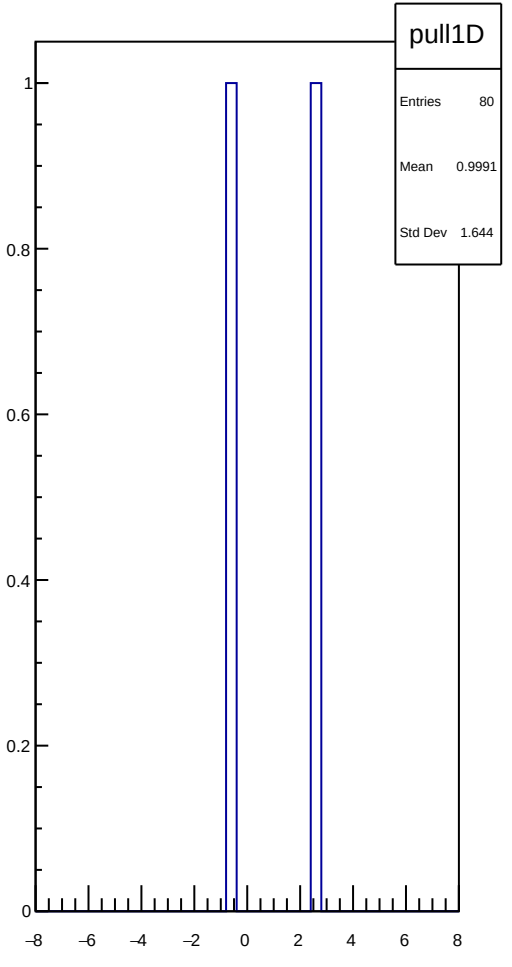

yield_bpm2i01Y_rms vs run
χ² / ndf 8866 / 79
p0 0.00326 ± 2.619e–06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026

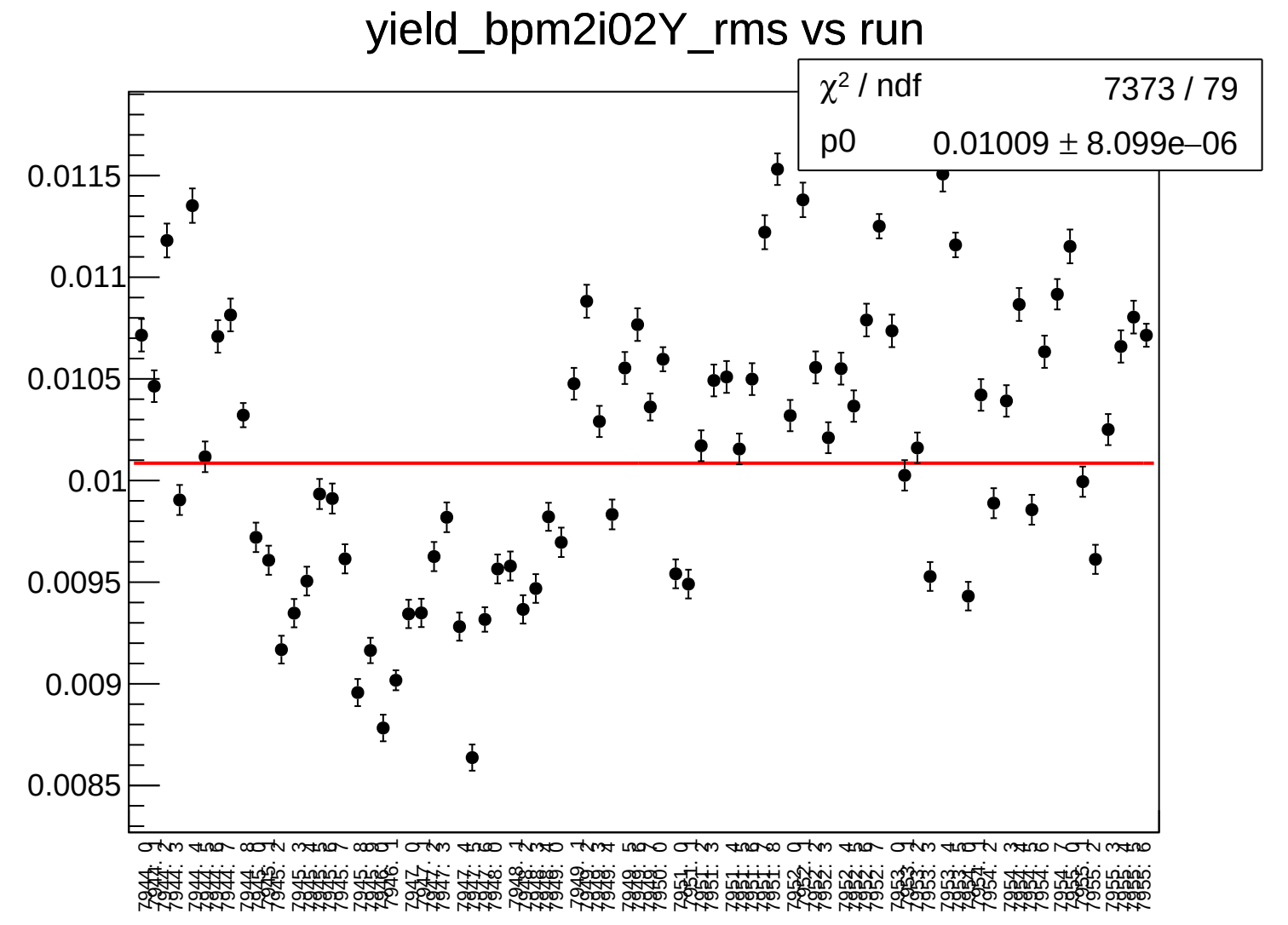

yield_bpm2i02X_mean vs run
χ² / ndf 8.616e+05 / 79
p0 0.0294 ± 1.316e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 80
Mean 1.834e+04
Std Dev 1.831e+04
200
150
100
50
0
−50
−100
−150

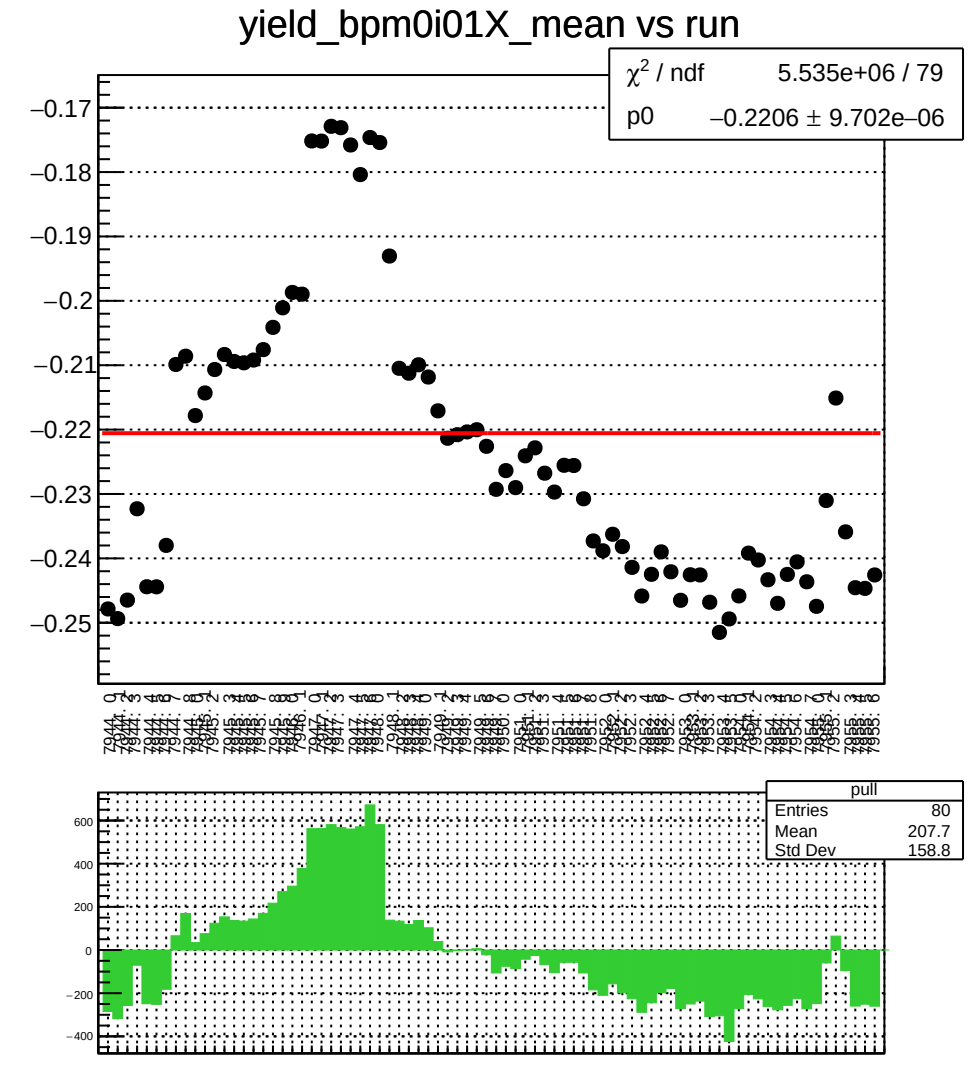

pull1D
Entries 80
Mean −3.261
Std Dev 3.961
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

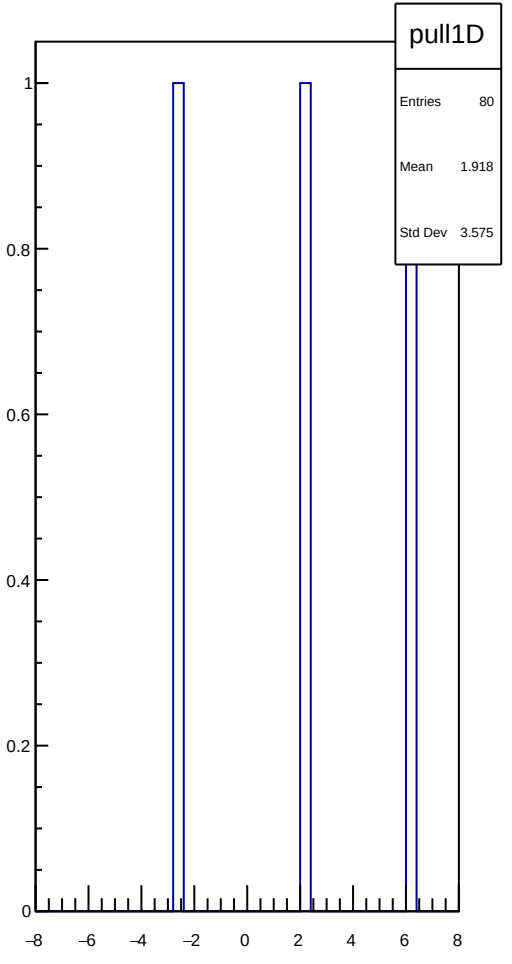

yield_bpm2i02X_rms vs run
χ² / ndf 3950 / 79
p0 0.0116 ± 9.306e−06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01

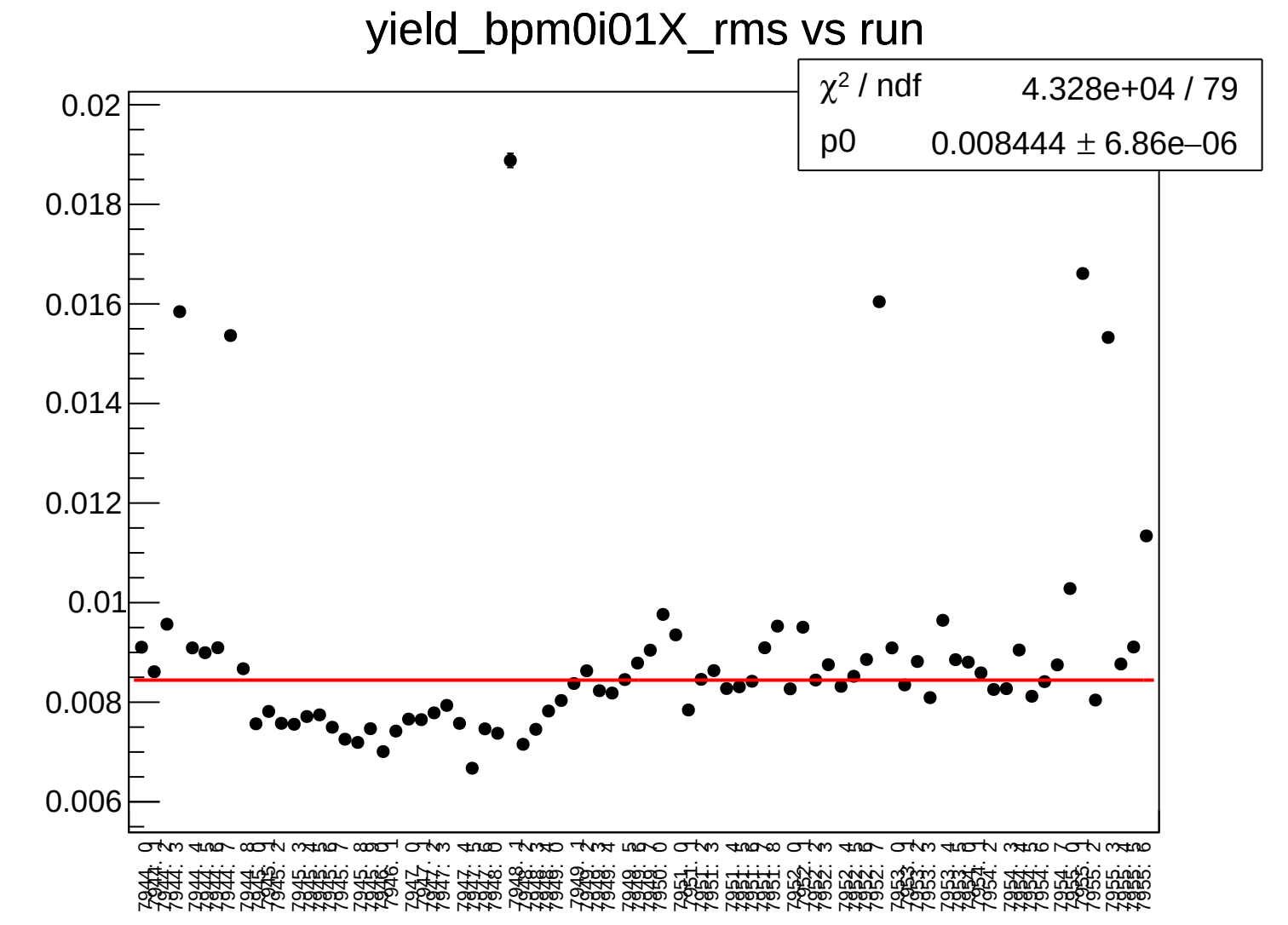

yield_bpm2i02Y_mean vs run
χ² / ndf 2.683e+06 / 79
p0 −1.243 ± 1.145e−05
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 80
Mean 277.4
Std Dev 183.8
400
300
200
100
0
−100
−200
−300

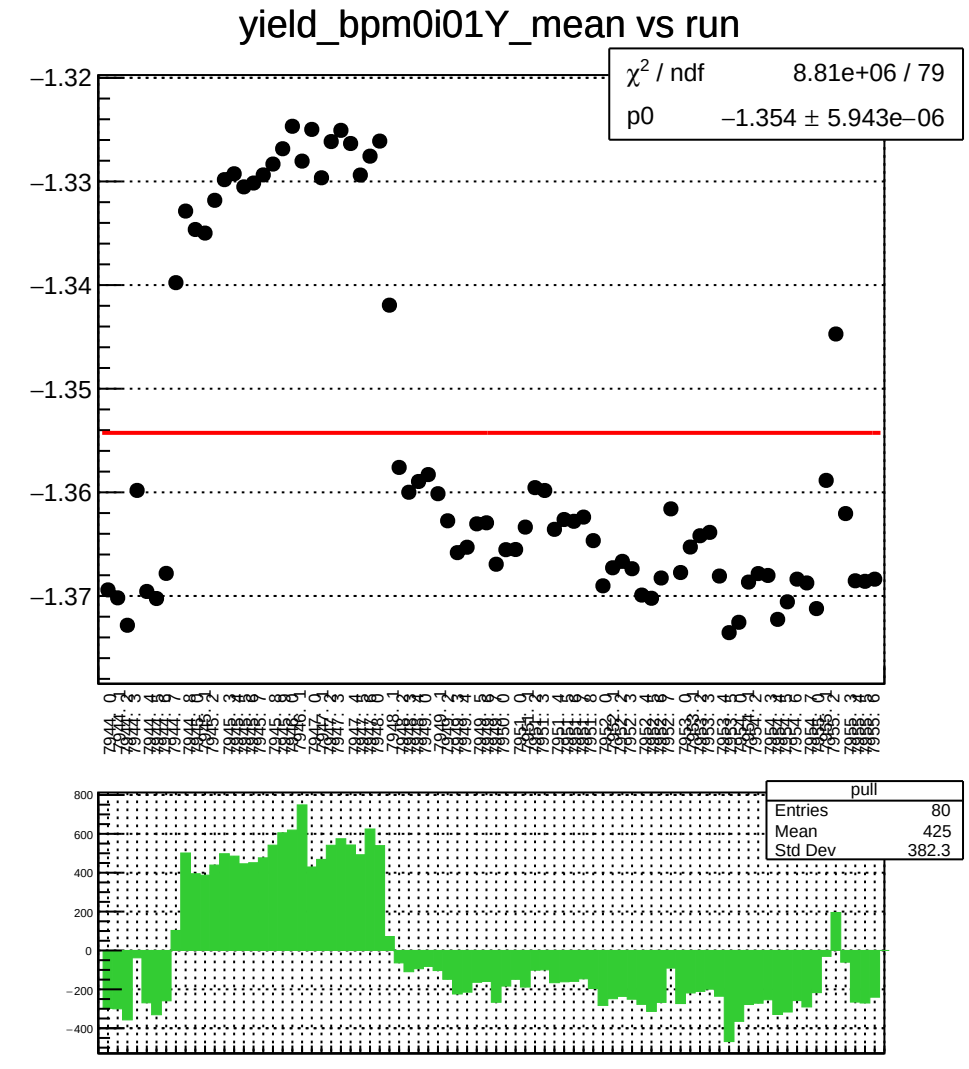

pull1D
Entries 80
Mean 0.9991
Std Dev 1.644
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

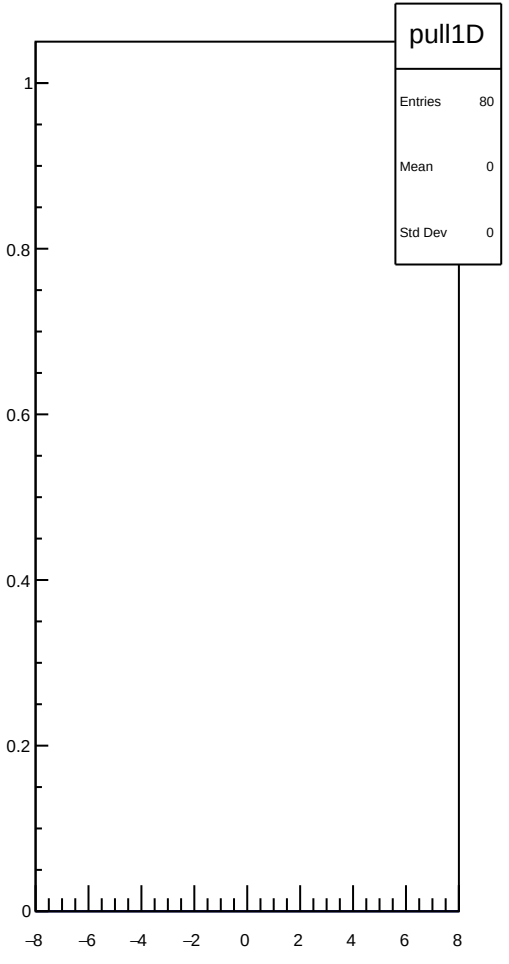

yield_bpm2i02Y_rms vs run
χ² / ndf 7373 / 79
p0 0.01009 ± 8.099e–06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085

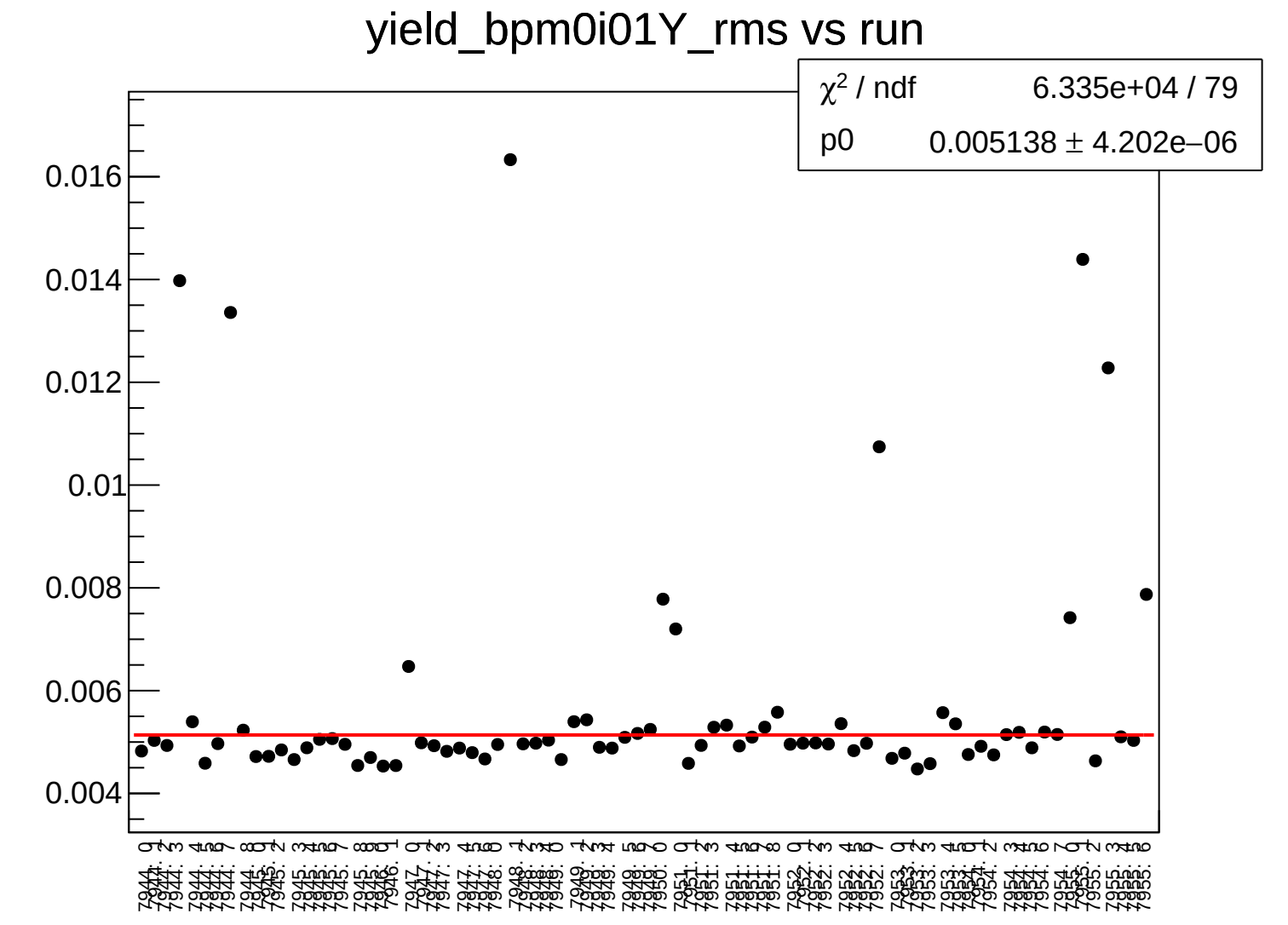

yield_bpm0i01X_mean vs run
χ² / ndf 5.535e+06 / 79
p0 −0.2206 ± 9.702e−06
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 80
Mean 207.7
Std Dev 158.8
600
400
200
0
−200
−400

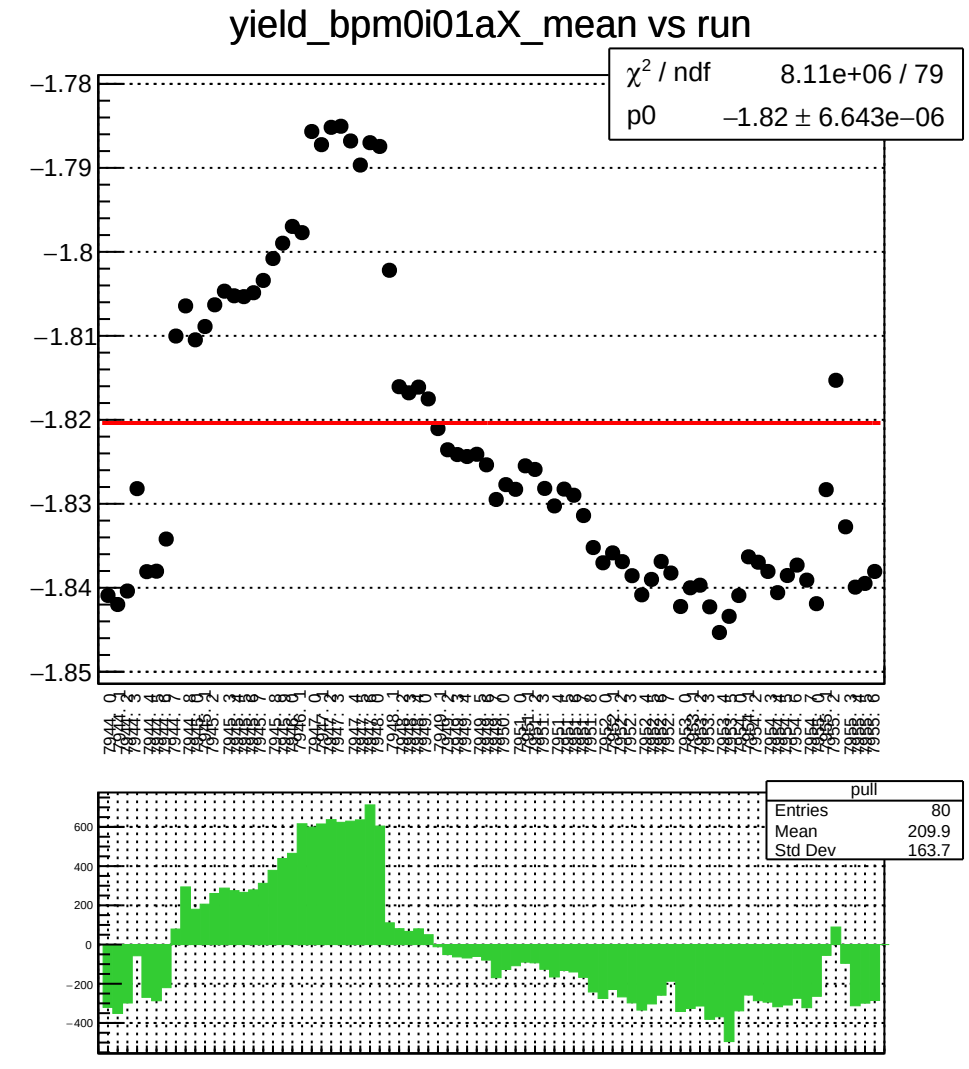

pull1D
Entries 80
Mean 1.918
Std Dev 3.575
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

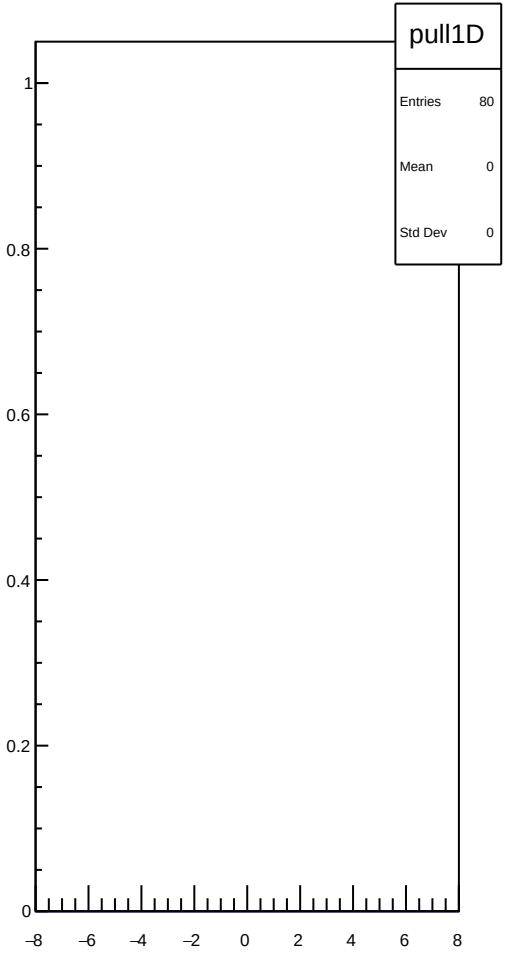

yield_bpm0i01X_rms vs run
χ² / ndf 4.328e+04 / 79
p0 0.008444 ± 6.86e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

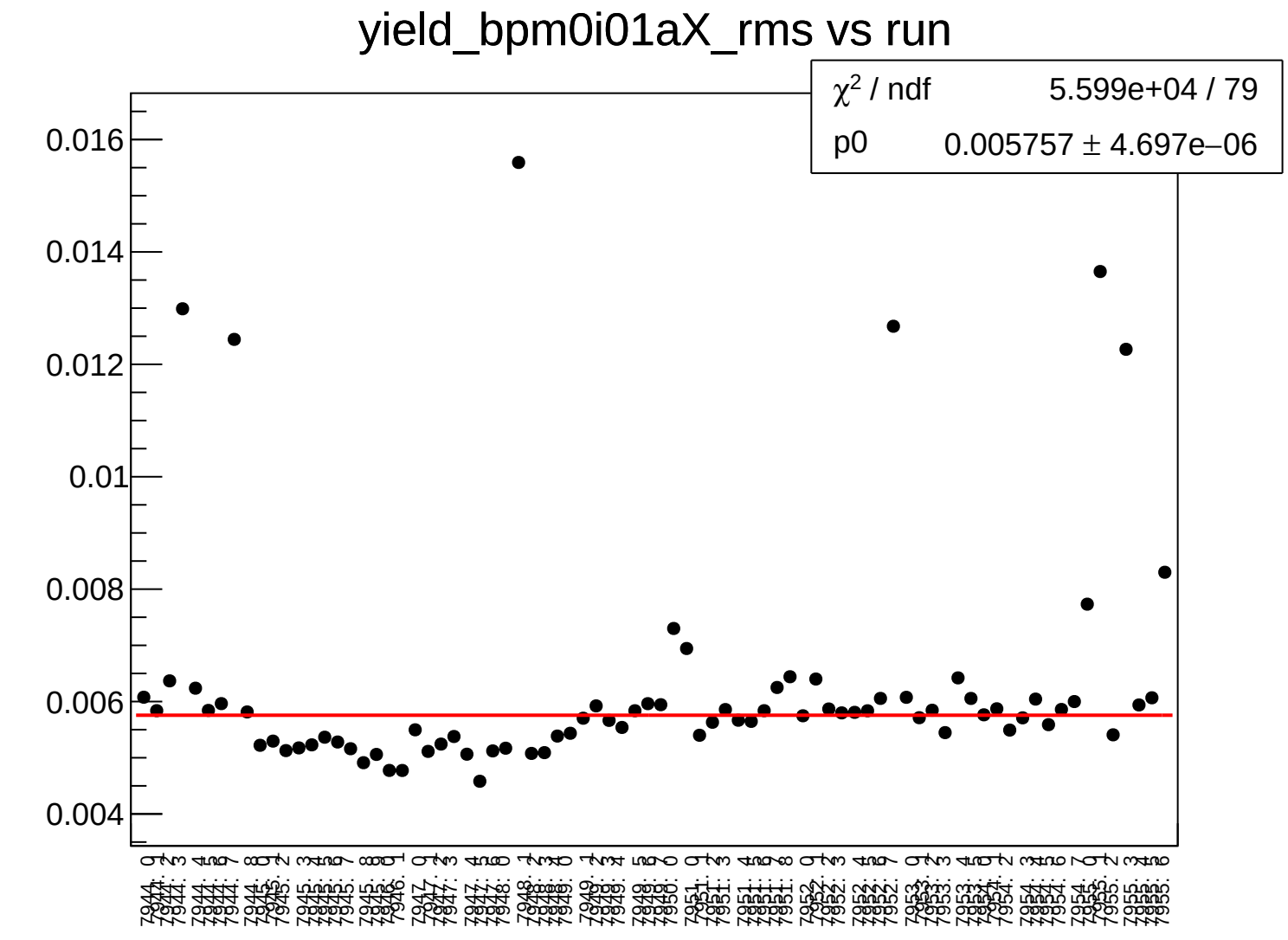

yield_bpm0i01Y_mean vs run
χ² / ndf 8.81e+06 / 79
p0 −1.354 ± 5.943e−06
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
pull
Entries 80
Mean 425
Std Dev 382.3
800
600
400
200
0
−200
−400

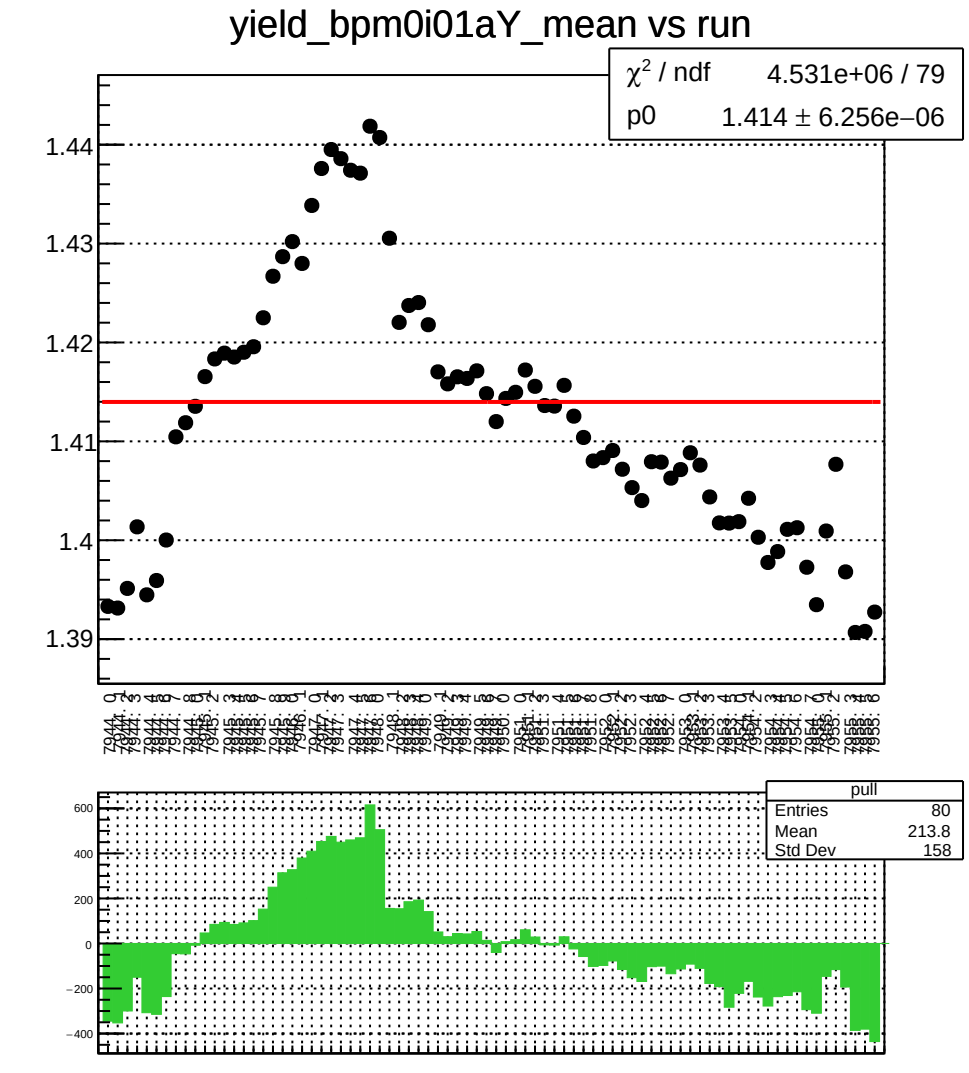

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

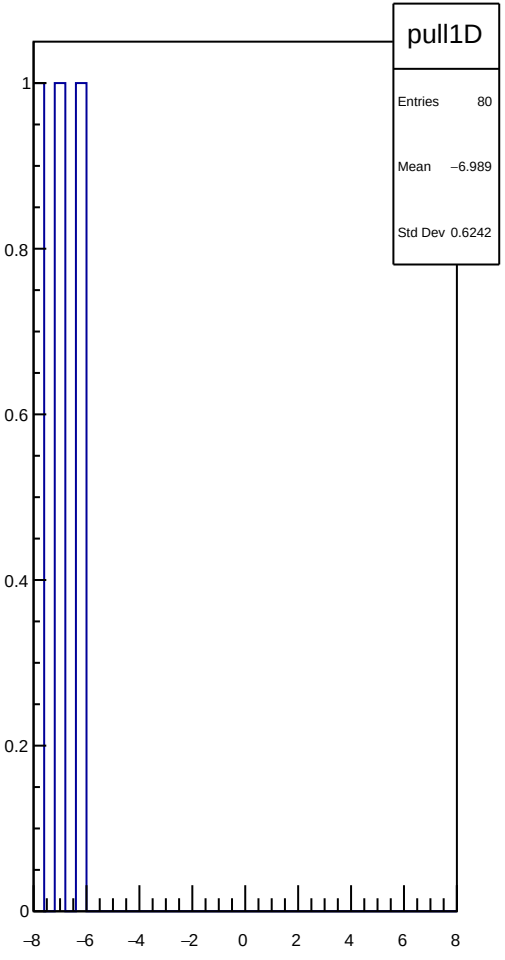

yield_bpm0i01Y_rms vs run
χ² / ndf 6.335e+04 / 79
p0 0.005138 ± 4.202e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

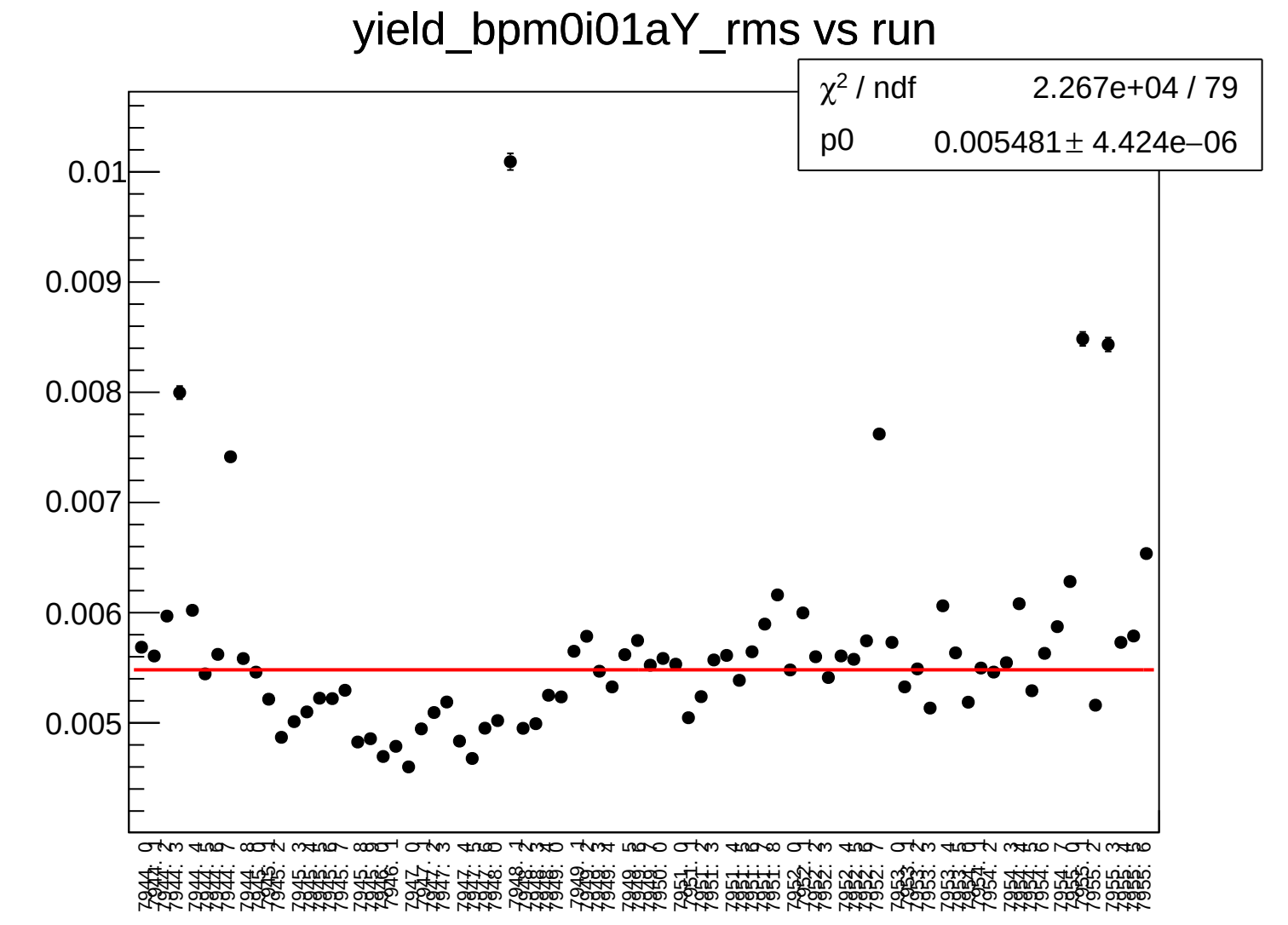

yield_bpm0i01aX_mean vs run
χ² / ndf 8.11e+06 / 79
p0 −1.82 ± 6.643e−06
−1.78
−1.79
−1.8
−1.81
−1.82
−1.83
−1.84
−1.85
pull
Entries 80
Mean 209.9
Std Dev 163.7
600
400
200
0
−200
−400

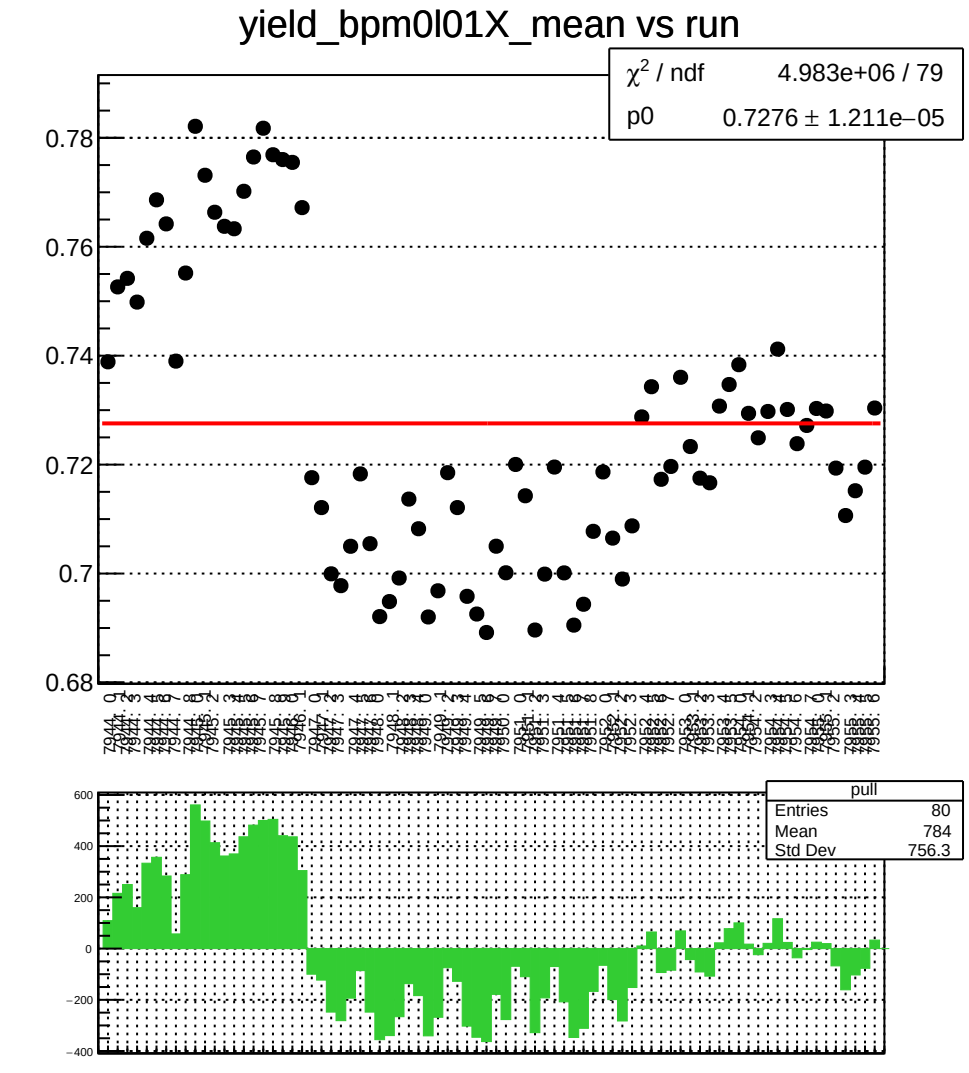

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

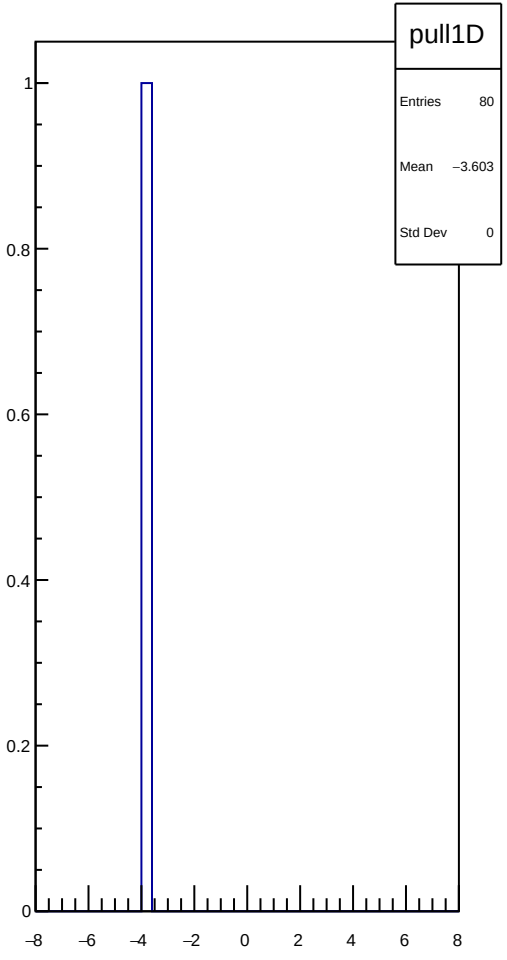

yield_bpm0i01aX_rms vs run
χ² / ndf 5.599e+04 / 79
p0 0.005757 ± 4.697e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

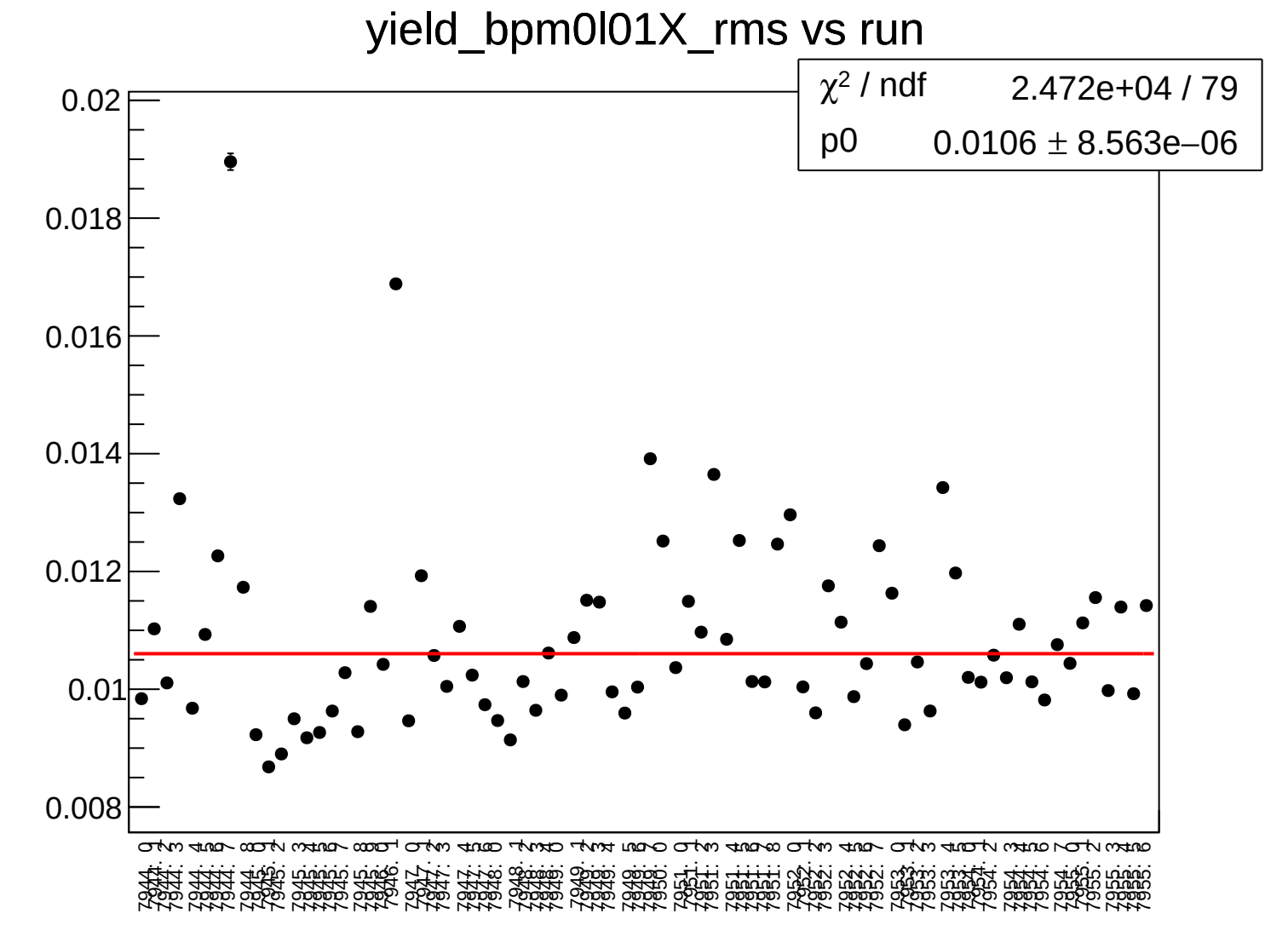

yield_bpm0i01aY_mean vs run
χ² / ndf 4.531e+06 / 79
p0 1.414 ± 6.256e−06
1.44
1.43
1.42
1.41
1.4
1.39
pull
Entries 80
Mean 213.8
Std Dev 158
600
400
200
0
−200
−400

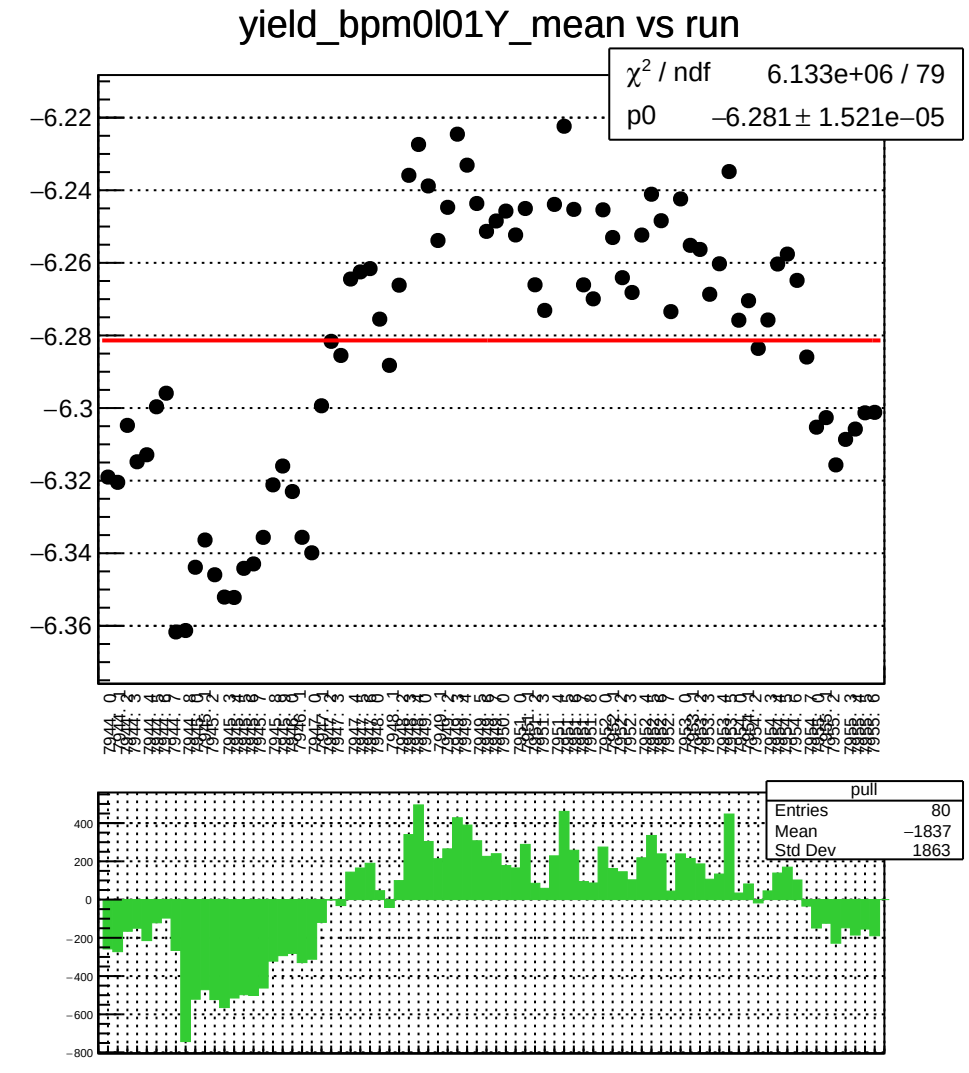

pull1D
Entries 80
Mean −6.989
Std Dev 0.6242
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

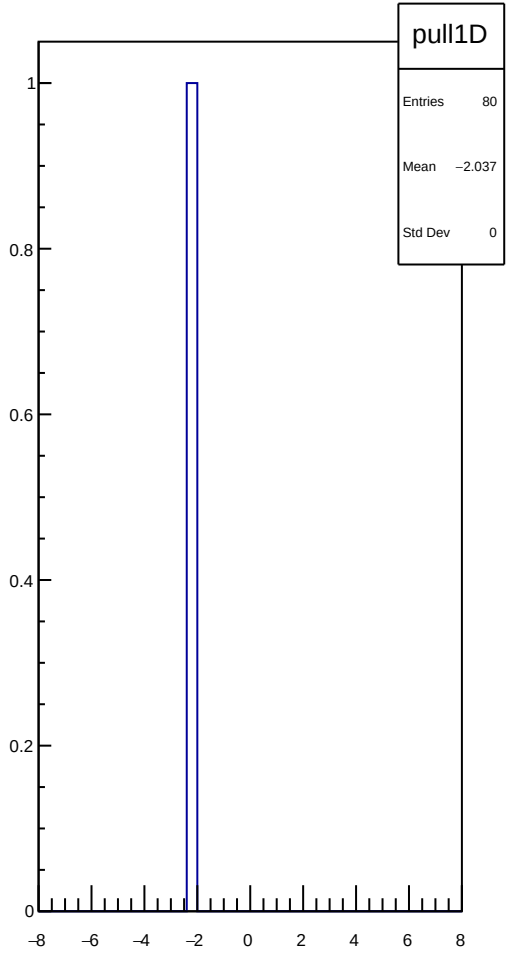

yield_bpm0i01aY_rms vs run
χ² / ndf 2.267e+04 / 79
p0 0.005481 ± 4.424e−06
0.01
0.009
0.008
0.007
0.006
0.005

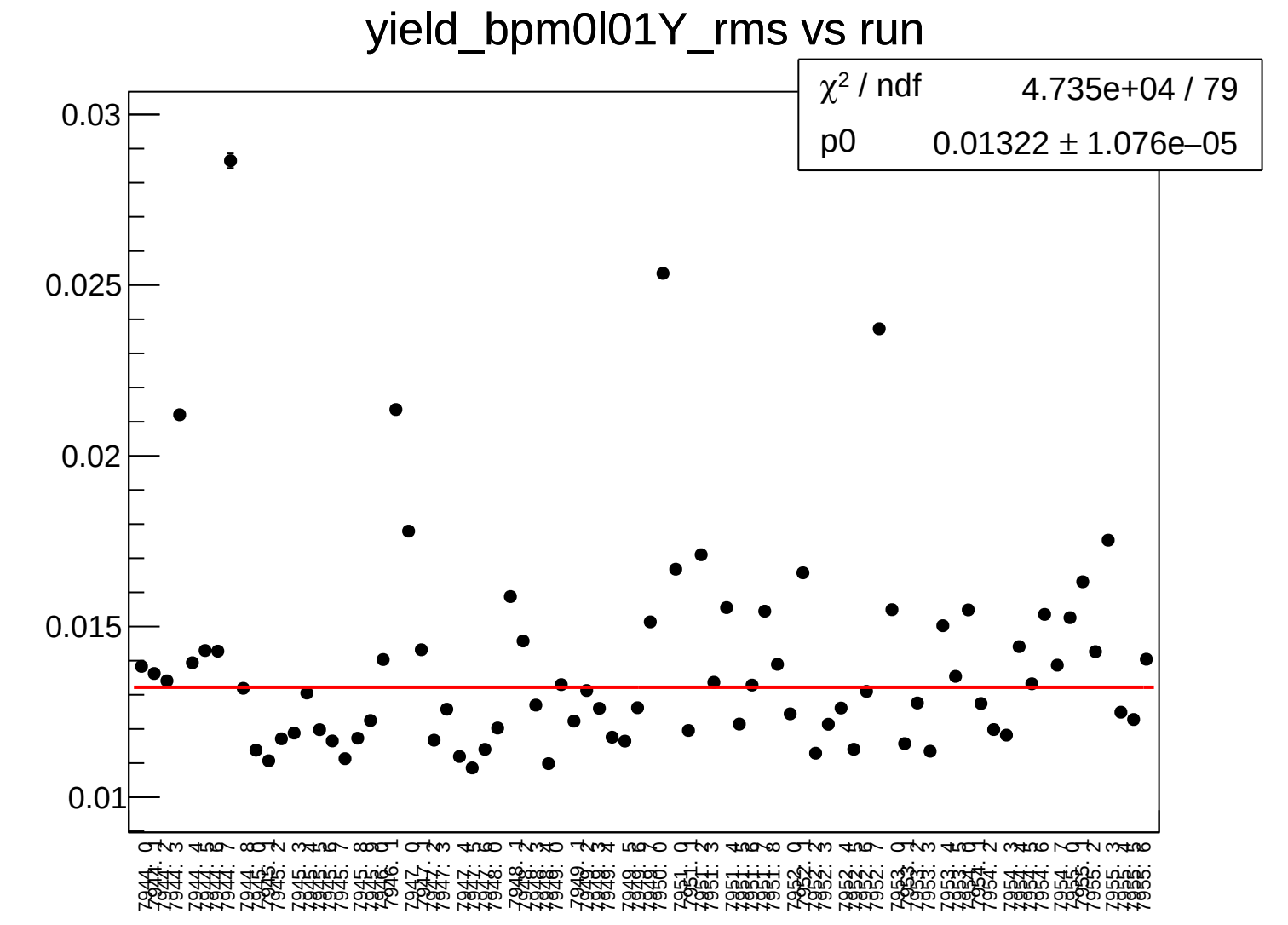

yield_bpm0l01X_mean vs run
χ² / ndf 4.983e+06 / 79
p0 0.7276 ± 1.211e−05
0.78
0.76
0.74
0.72
0.7
0.68
pull
Entries 80
Mean 784
Std Dev 756.3
600
400
200
0
−200
−400

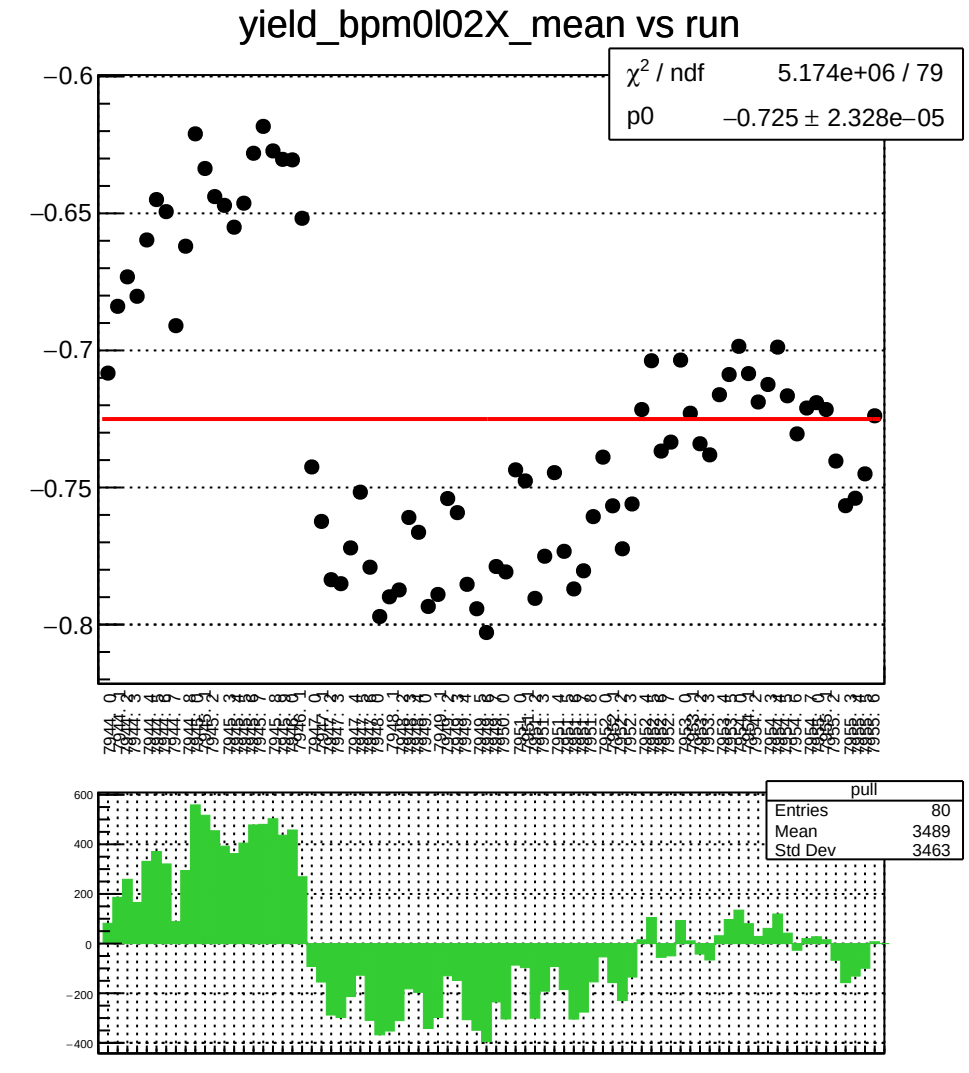

pull1D
Entries 80
Mean −3.603
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

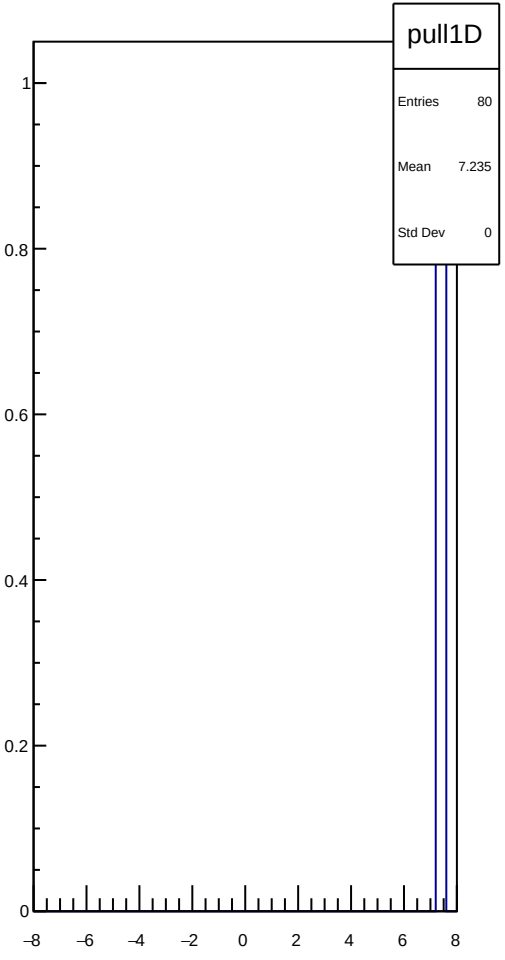

yield_bpm0l01X_rms vs run
χ² / ndf 2.472e+04 / 79
p0 0.0106 ± 8.563e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

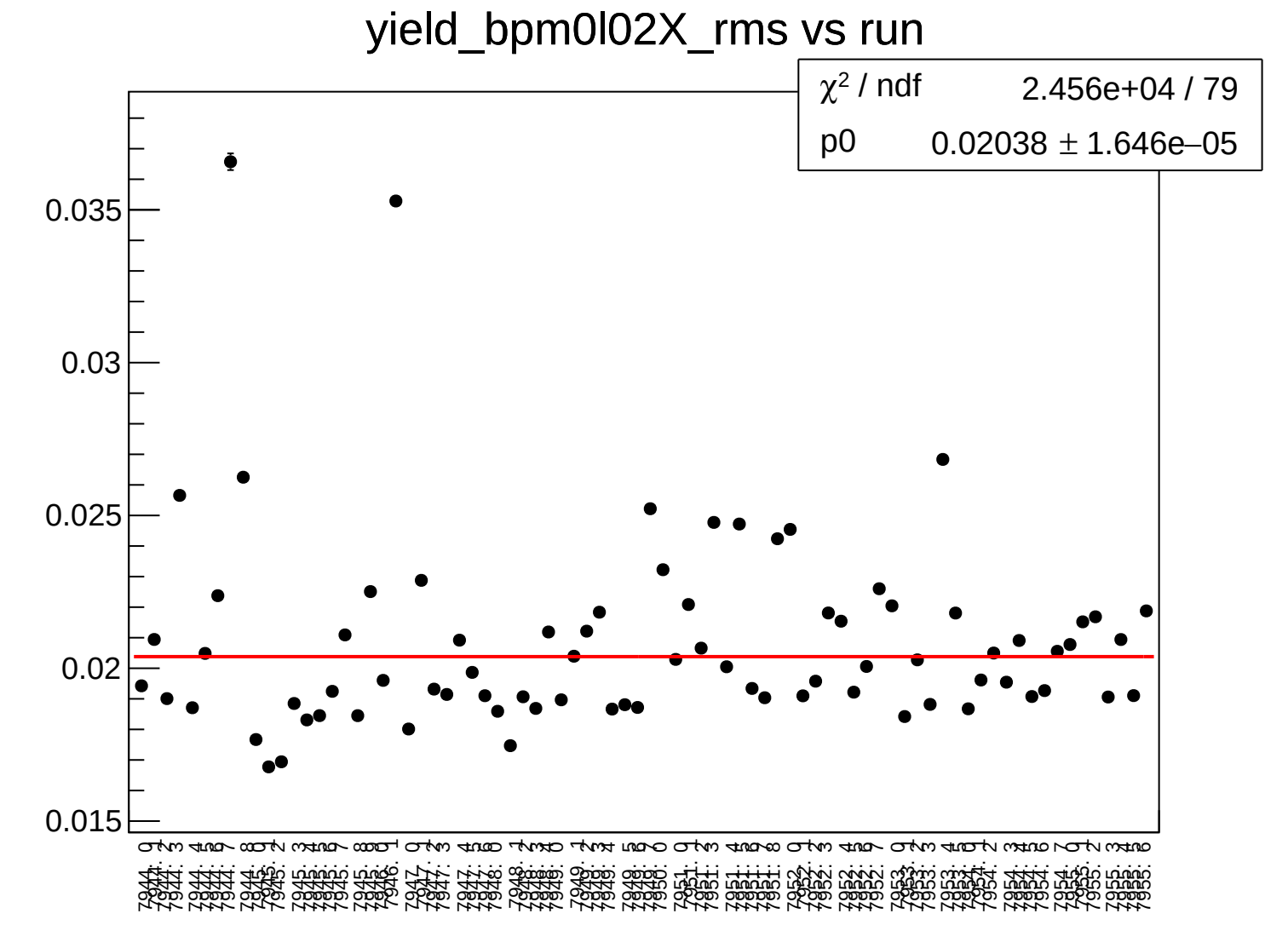

yield_bpm0l01Y_mean vs run
χ² / ndf 6.133e+06 / 79
p0 −6.281 ± 1.521e−05
−6.22
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
pull
Entries 80
Mean −1837
Std Dev 1863
400
200
0
−200
−400
−600
−800

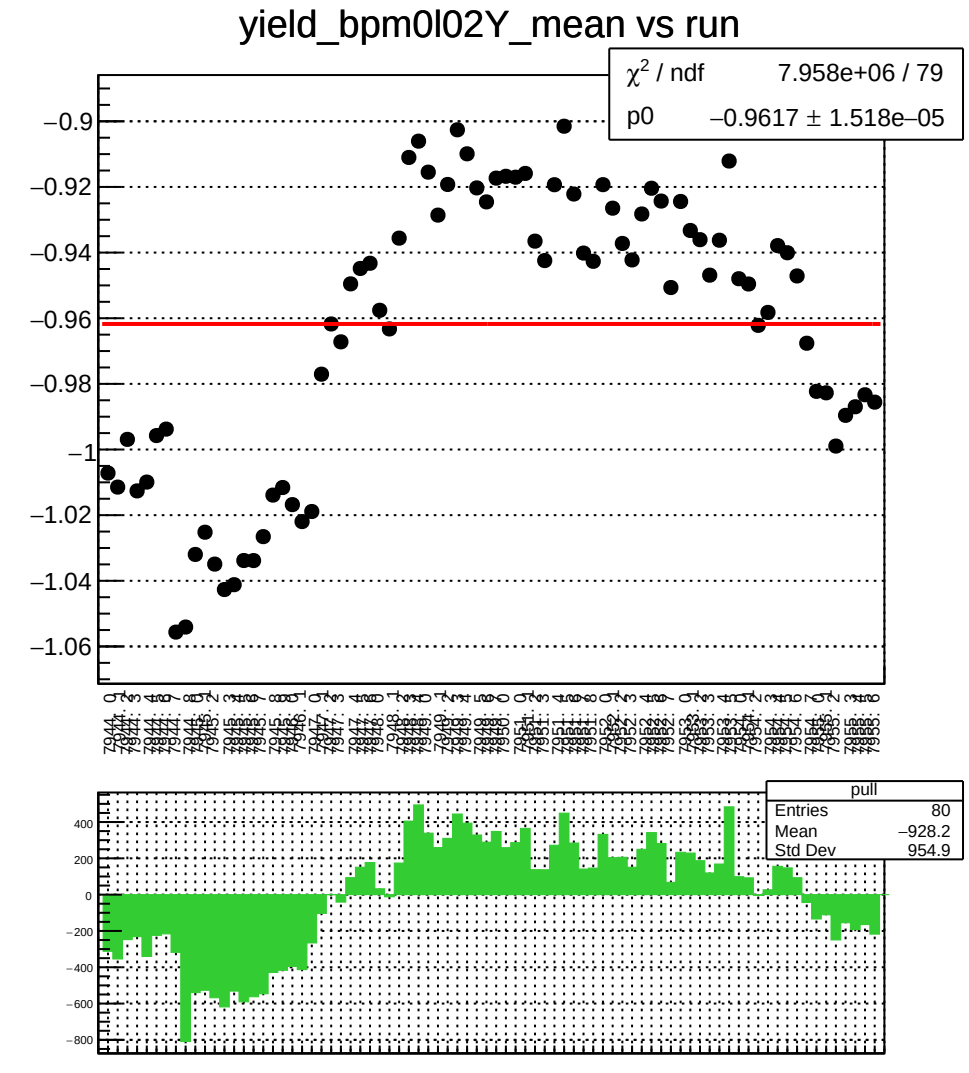

pull1D
Entries 80
Mean −2.037
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

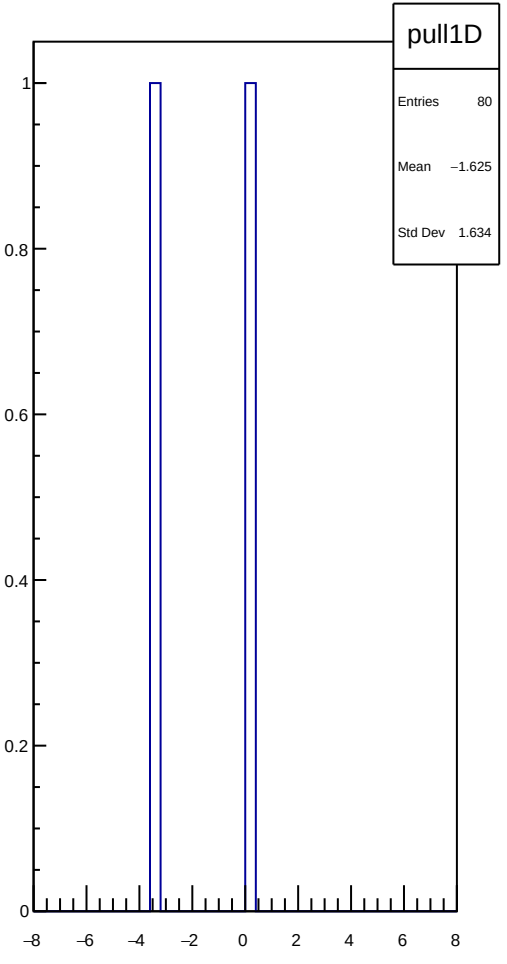

yield_bpm0l01Y_rms vs run
χ² / ndf 4.735e+04 / 79
p0 0.01322 ± 1.076e−05
0.03
0.025
0.02
0.015
0.01

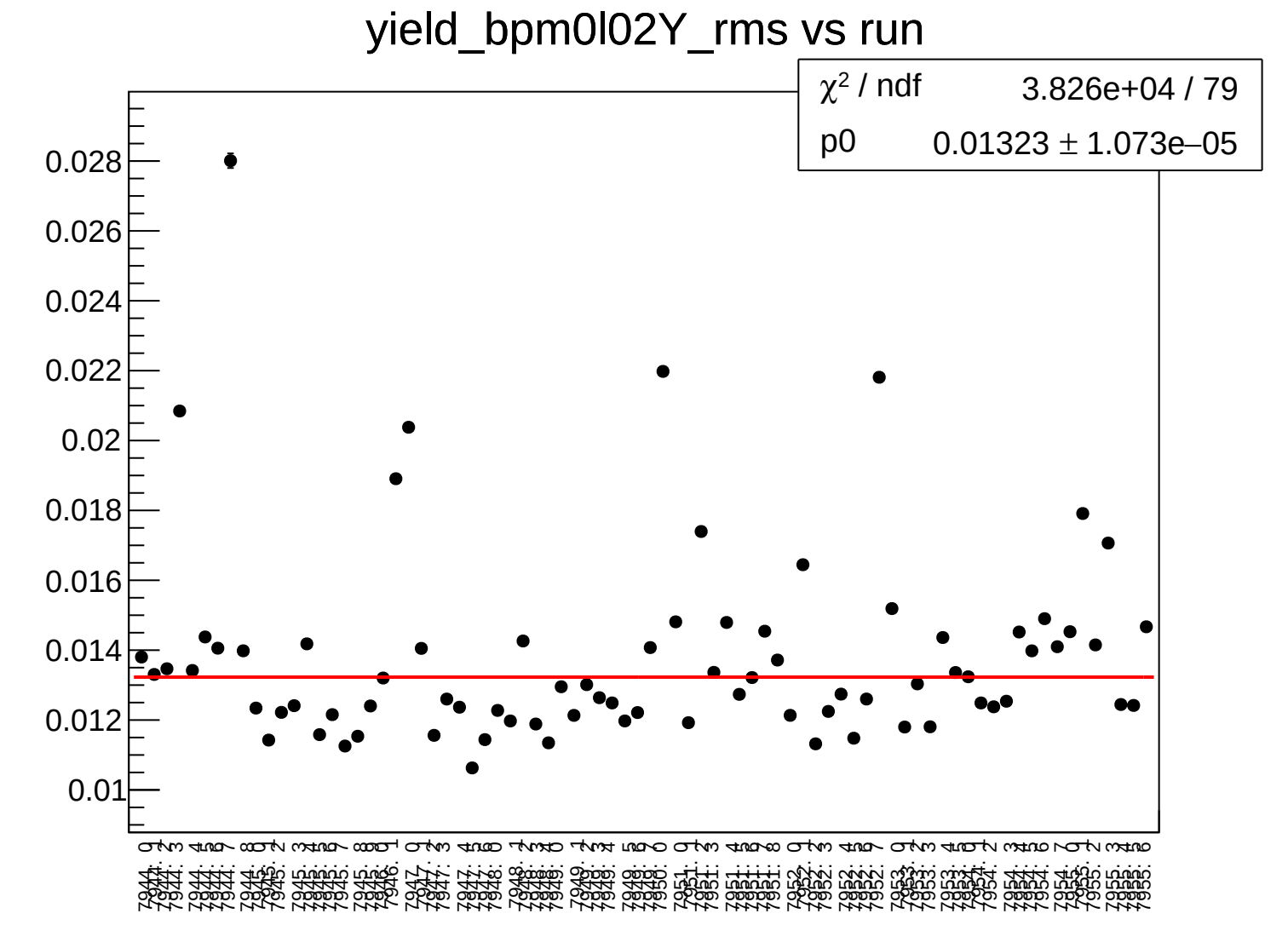

yield_bpm0l02X_mean vs run
χ² / ndf 5.174e+06 / 79
p0 −0.725 ± 2.328e−05
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 80
Mean 3489
Std Dev 3463
600
400
200
0
−200
−400

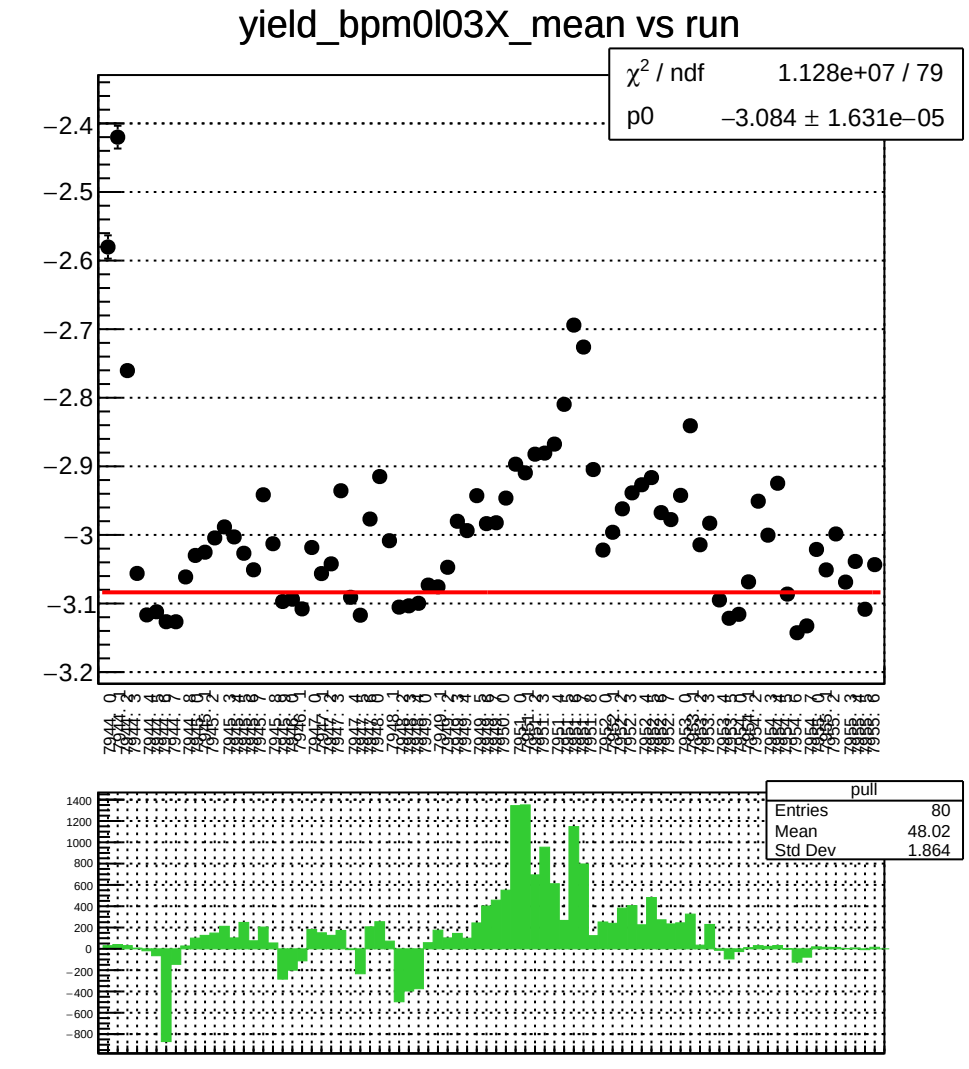

pull1D
Entries 80
Mean 7.235
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

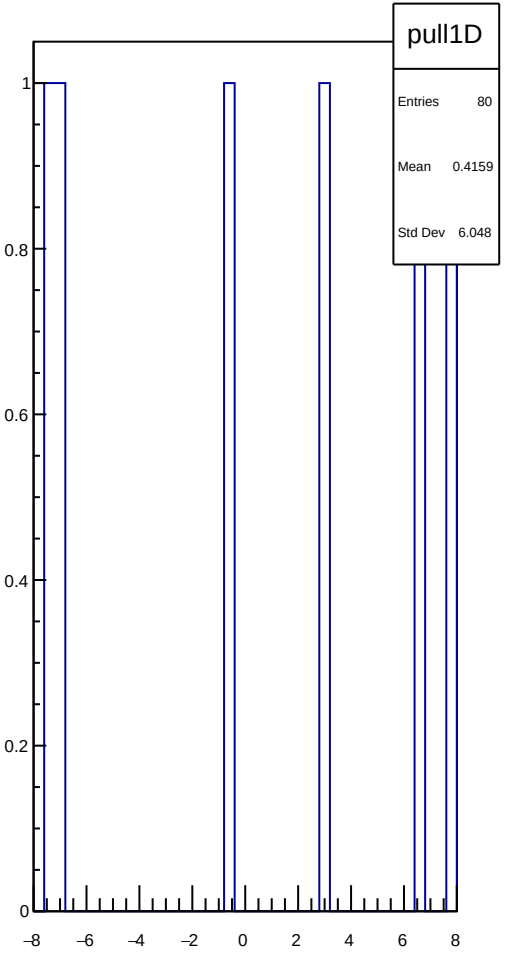

yield_bpm0l02X_rms vs run
χ² / ndf 2.456e+04 / 79
p0 0.02038 ± 1.646e−05
0.035
0.03
0.025
0.02
0.015

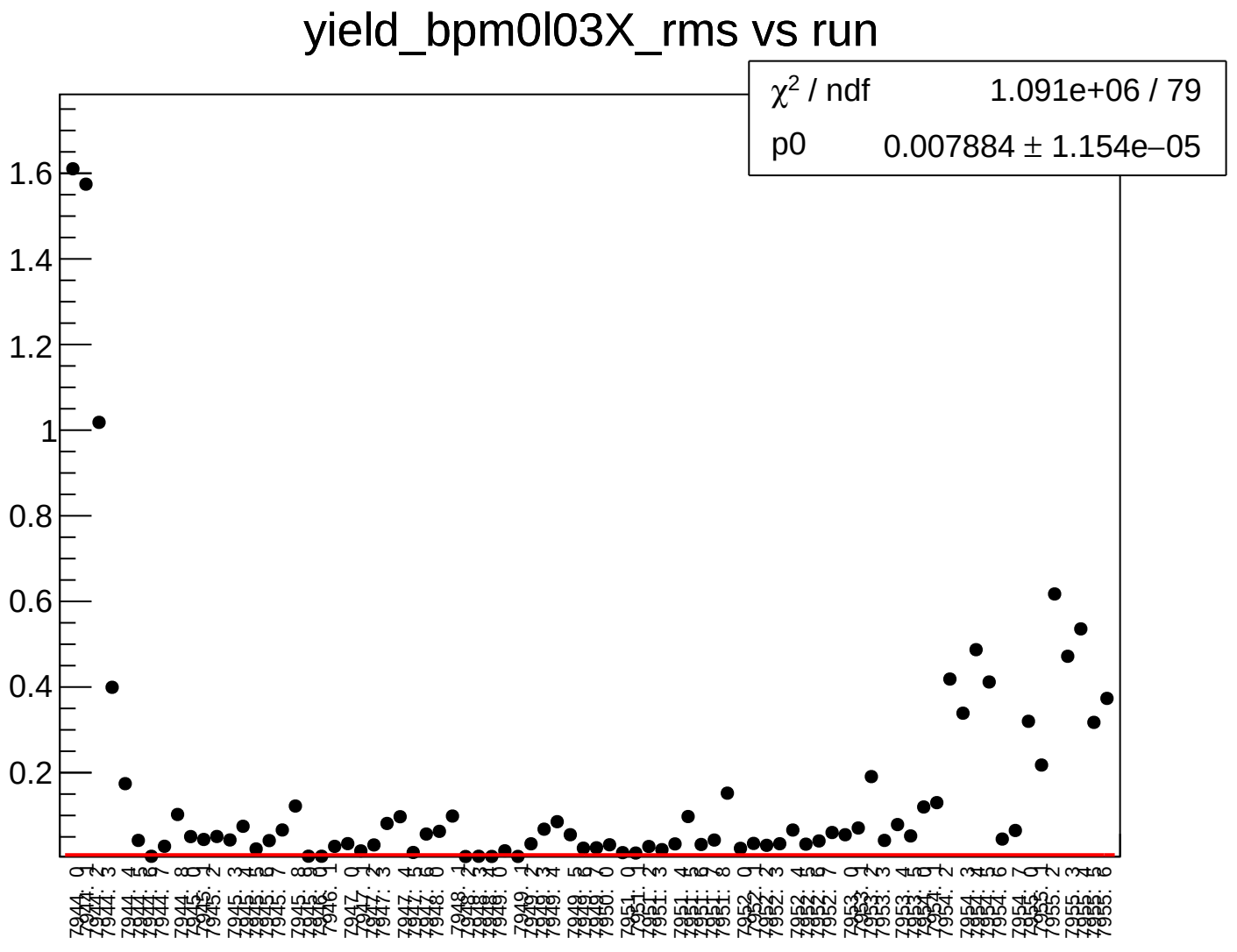

yield_bpm0l02Y_mean vs run
χ² / ndf 7.958e+06 / 79
p0 −0.9617 ± 1.518e−05
pull
Entries 80
Mean −928.2
Std Dev 954.9

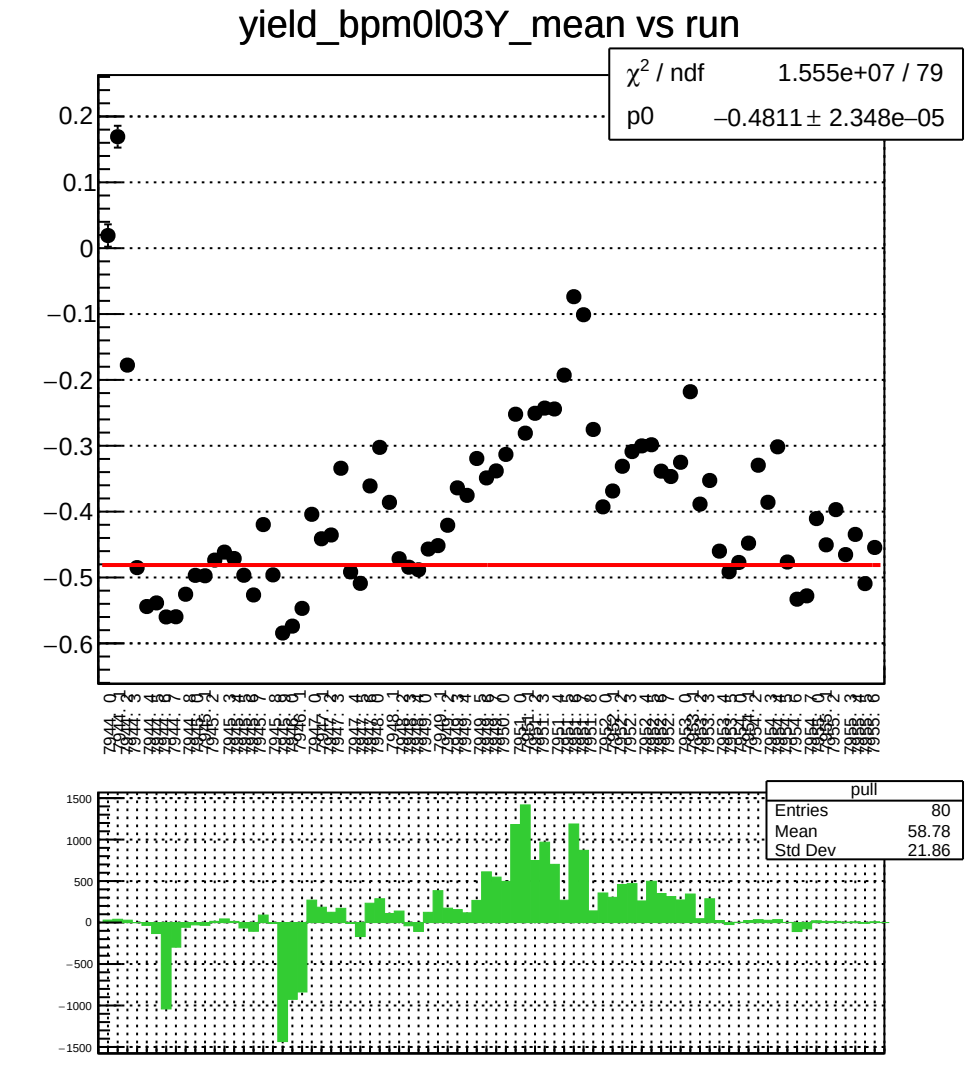

pull1D
Entries 80
Mean −1.625
Std Dev 1.634

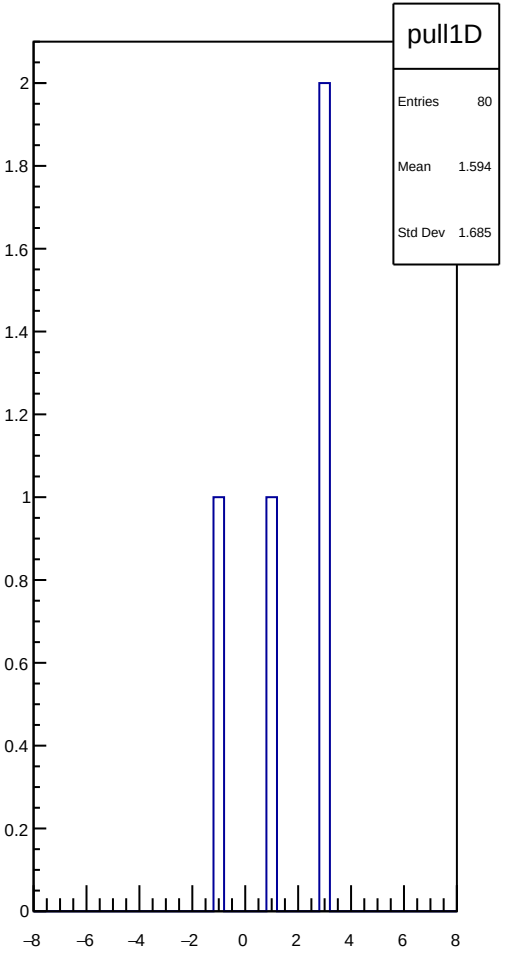

yield_bpm0l02Y_rms vs run
χ² / ndf 3.826e+04 / 79
p0 0.01323 ± 1.073e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

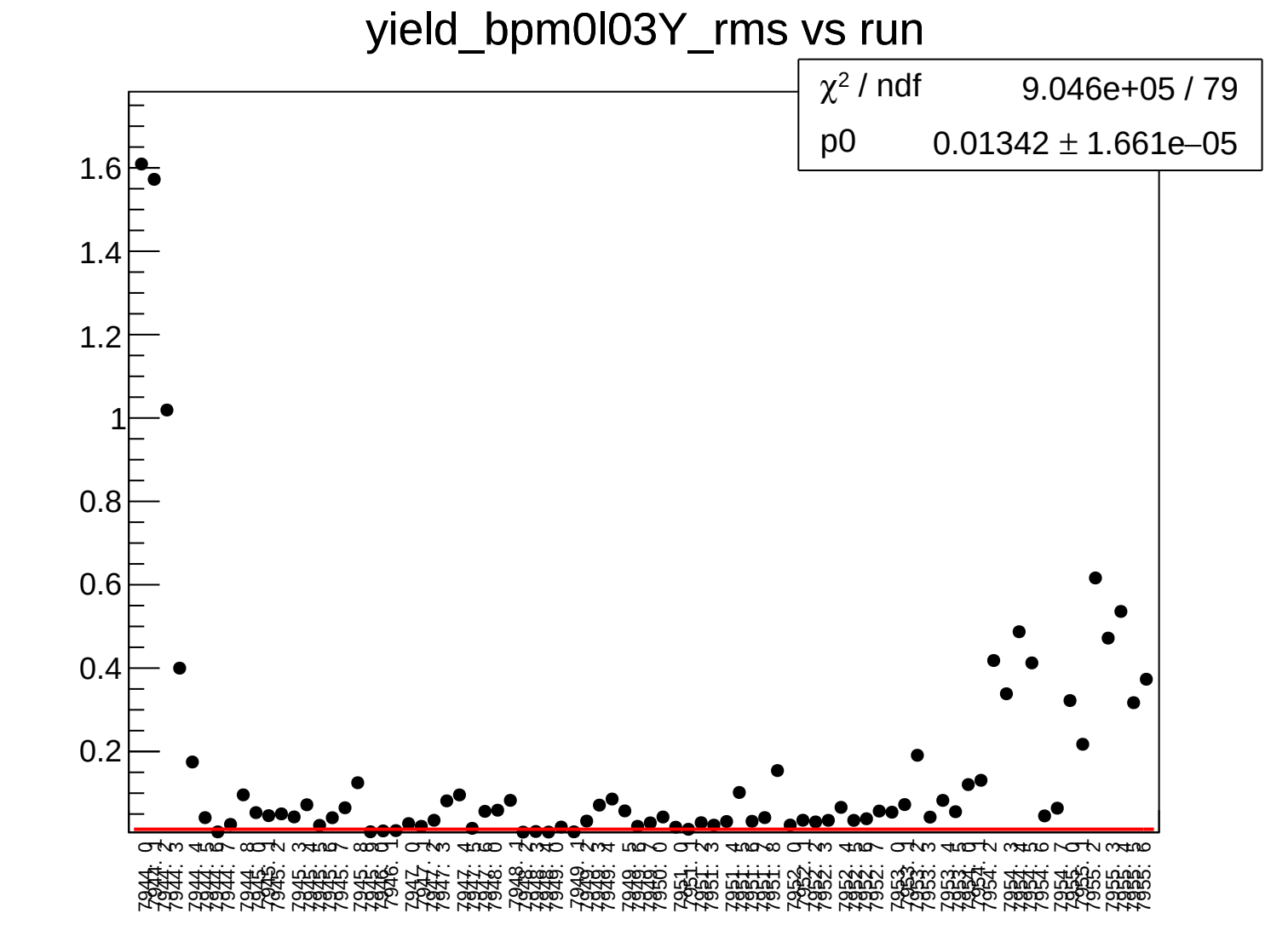

yield_bpm0l03X_mean vs run
χ² / ndf 1.128e+07 / 79
p0 −3.084 ± 1.631e−05
pull
Entries 80
Mean 48.02
Std Dev 1.864

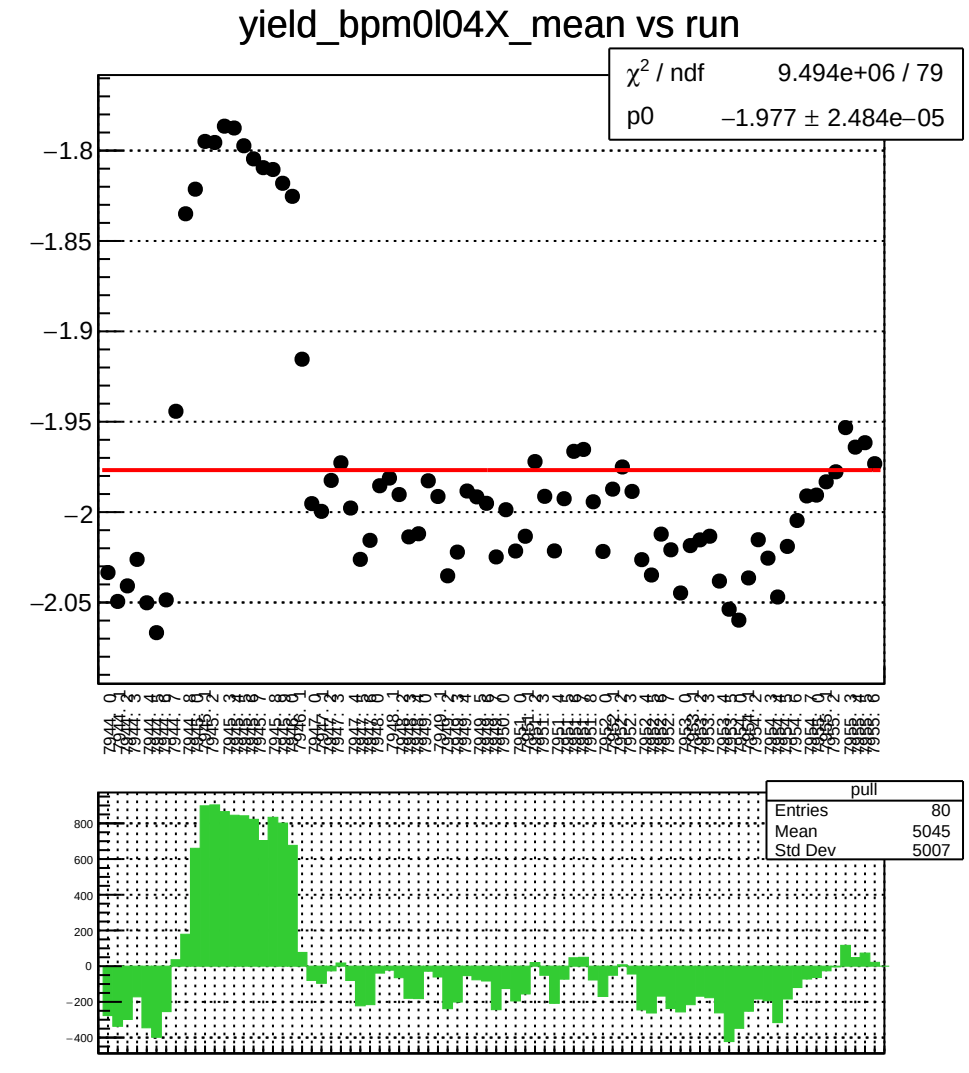

pull1D
Entries 80
Mean 0.4159
Std Dev 6.048

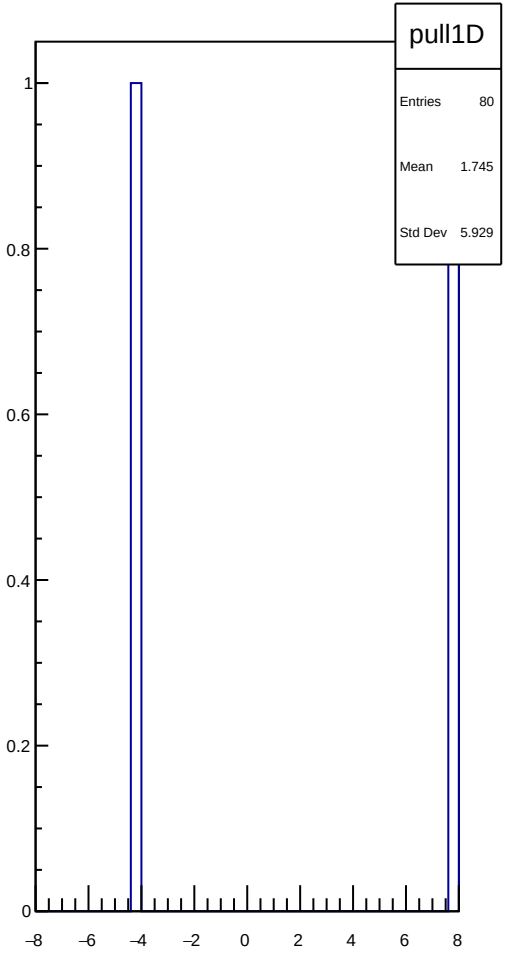

yield_bpm0l03X_rms vs run
χ^2 / ndf 1.091e+06 / 79
p0 0.007884 ± 1.154e−05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2


yield_bpm0l03Y_mean vs run
χ² / ndf 1.555e+07 / 79
p0 −0.4811 ± 2.348e−05
pull
Entries 80
Mean 58.78
Std Dev 21.86

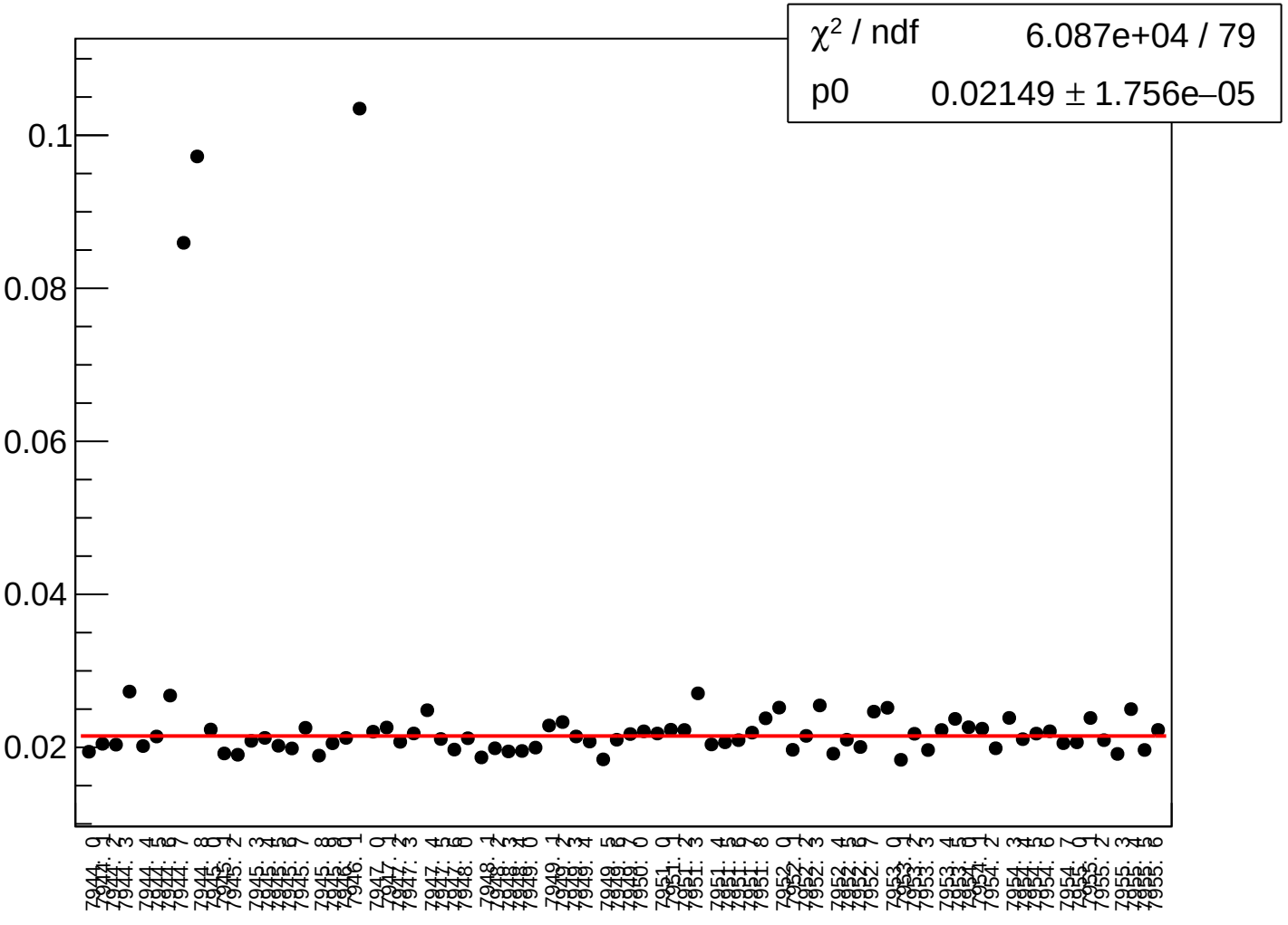

pull1D
Entries 80
Mean 1.594
Std Dev 1.685

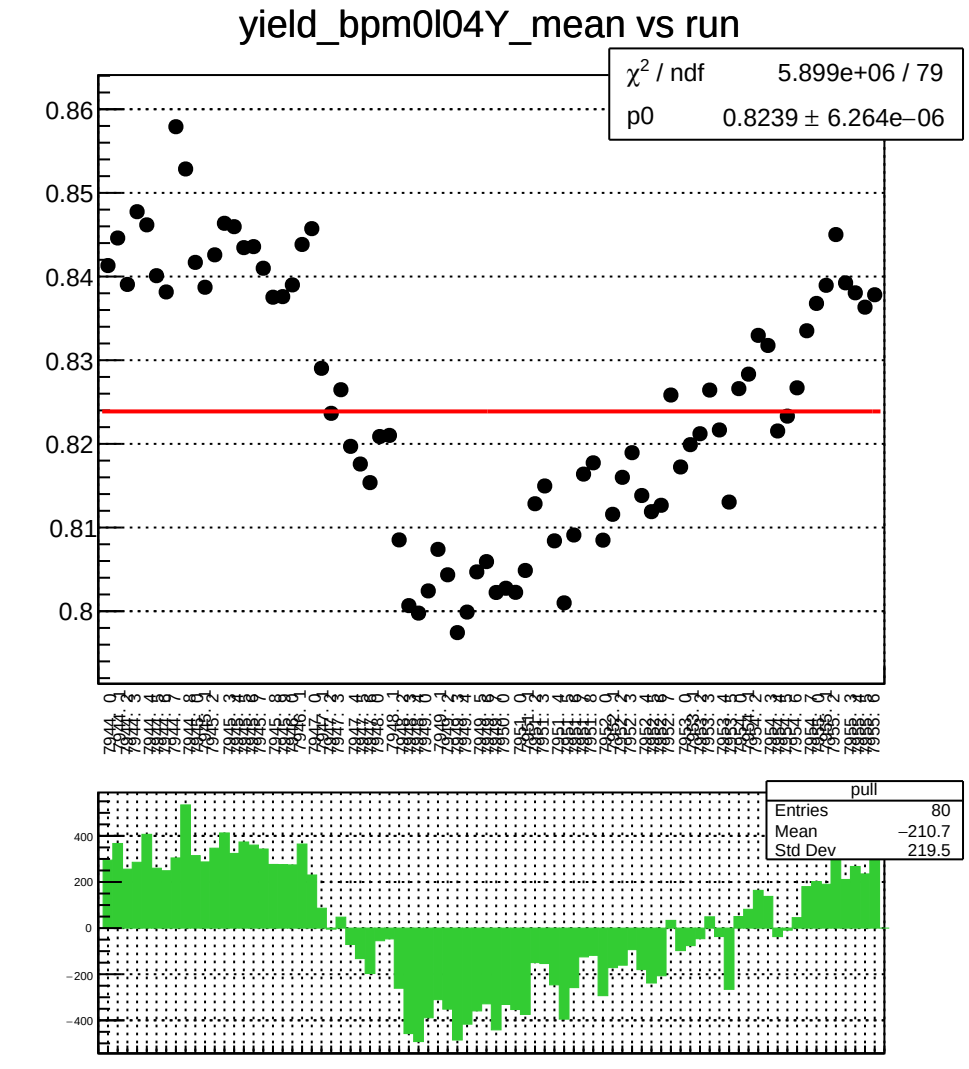

yield_bpm0l03Y_rms vs run
χ² / ndf 9.046e+05 / 79
p0 0.01342 ± 1.661e–05
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

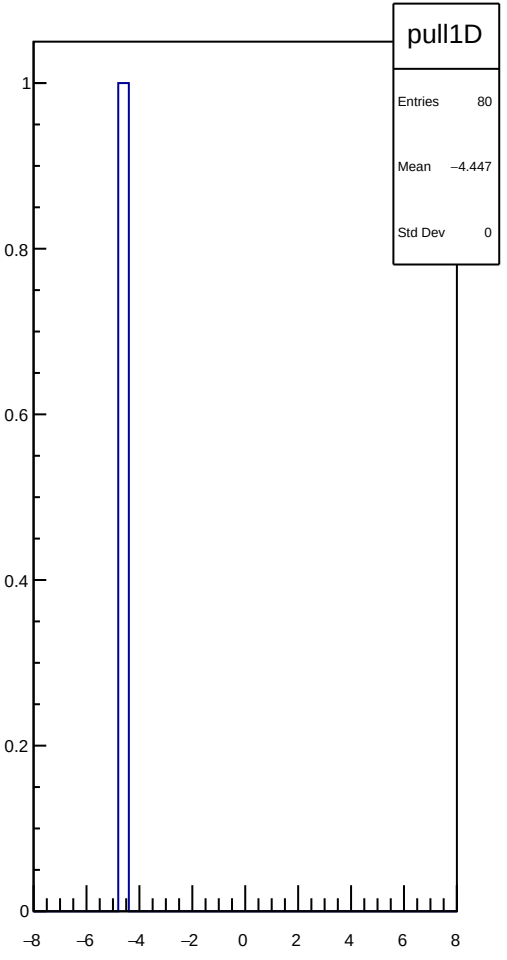

yield_bpm0l04X_mean vs run
χ² / ndf 9.494e+06 / 79
p0 −1.977 ± 2.484e−05
−1.8
−1.85
−1.9
−1.95
−2
−2.05
pull
Entries 80
Mean 5045
Std Dev 5007
800
600
400
200
0
−200
−400

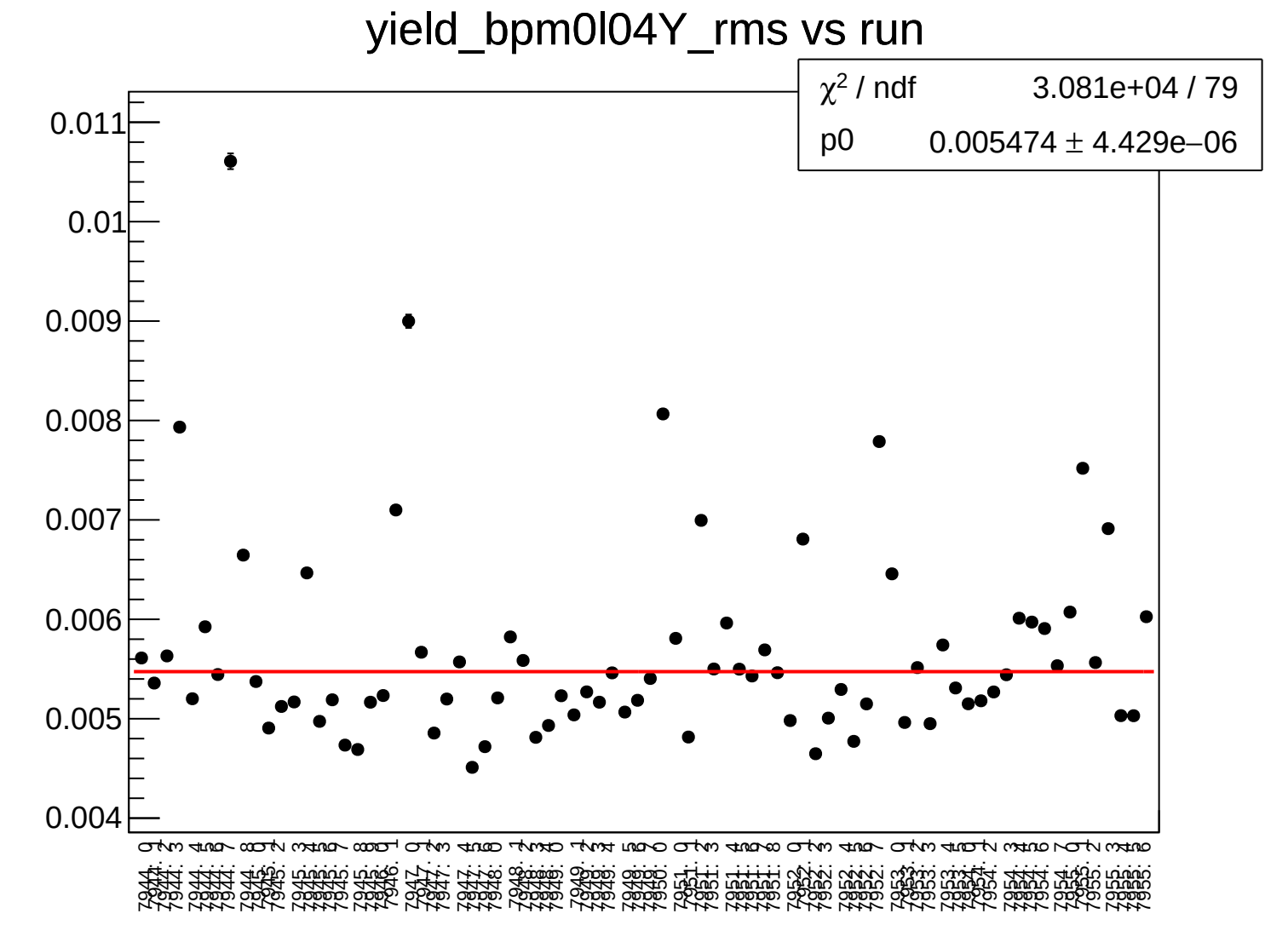

pull1D
Entries 80
Mean 1.745
Std Dev 5.929
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

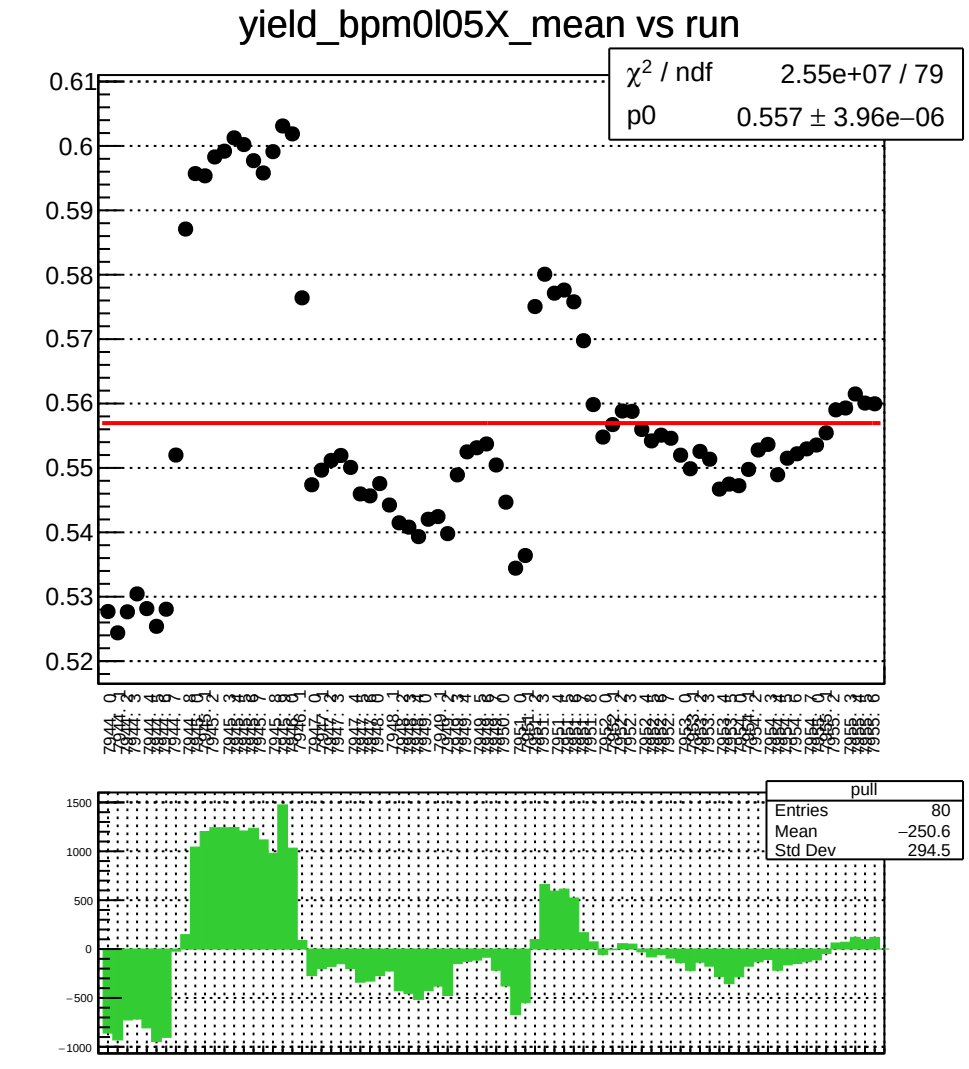
yield_bpm0l04X_rms vs run

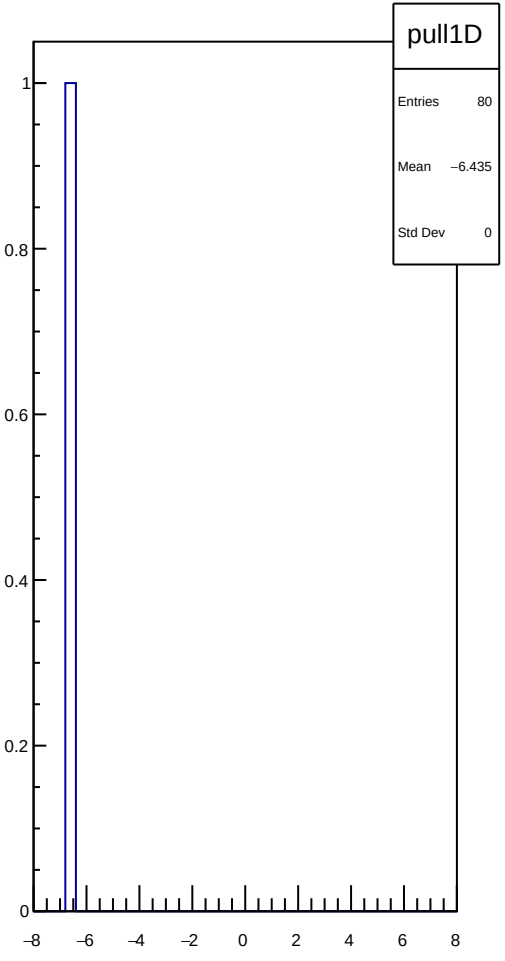


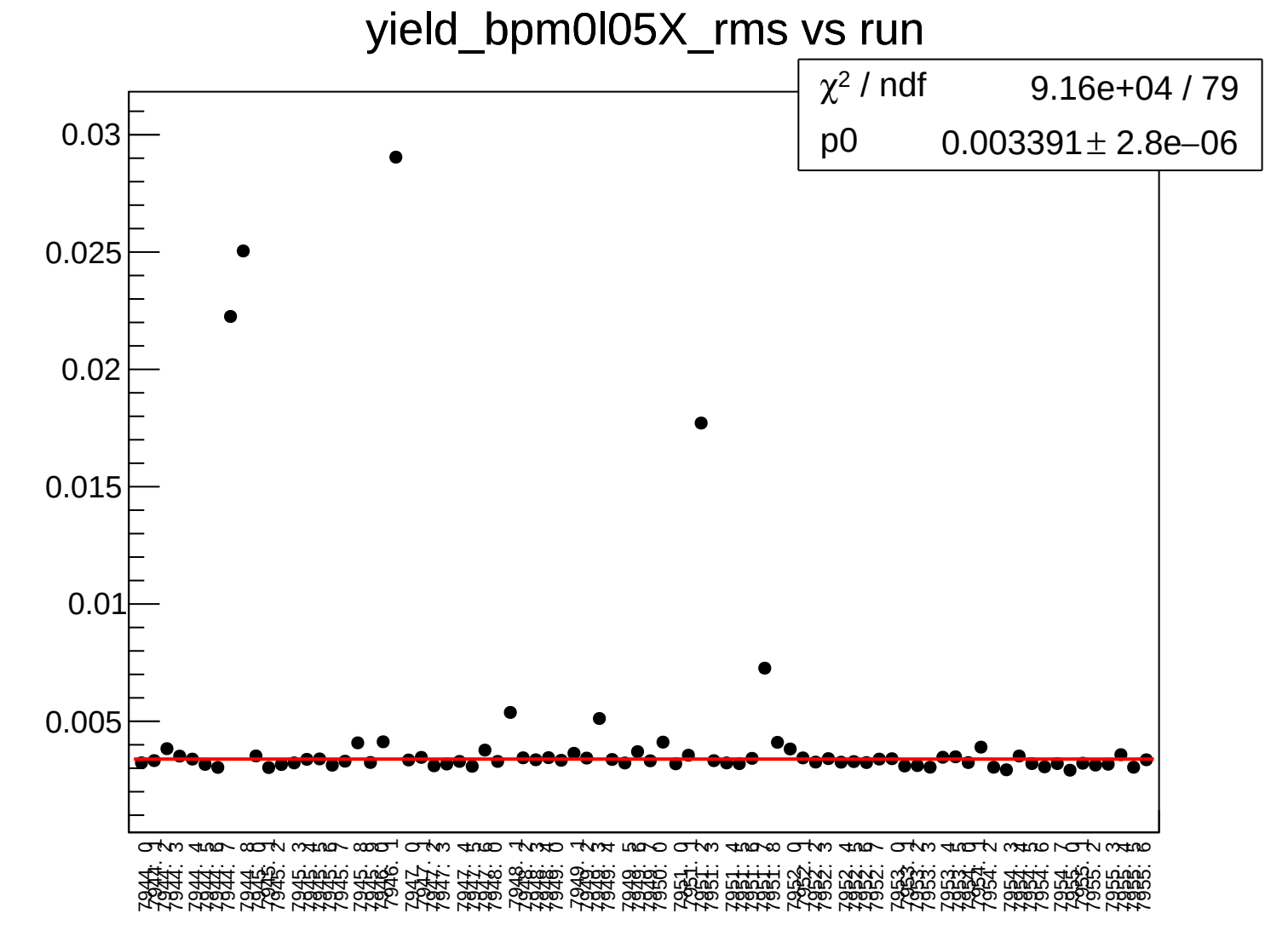

yield_bpm0l04Y_mean vs run
χ² / ndf 5.899e+06 / 79
p0 0.8239 ± 6.264e−06
0.86
0.85
0.84
0.83
0.82
0.81
0.8
pull
Entries 80
Mean −210.7
Std Dev 219.5
400
200
0
−200
−400

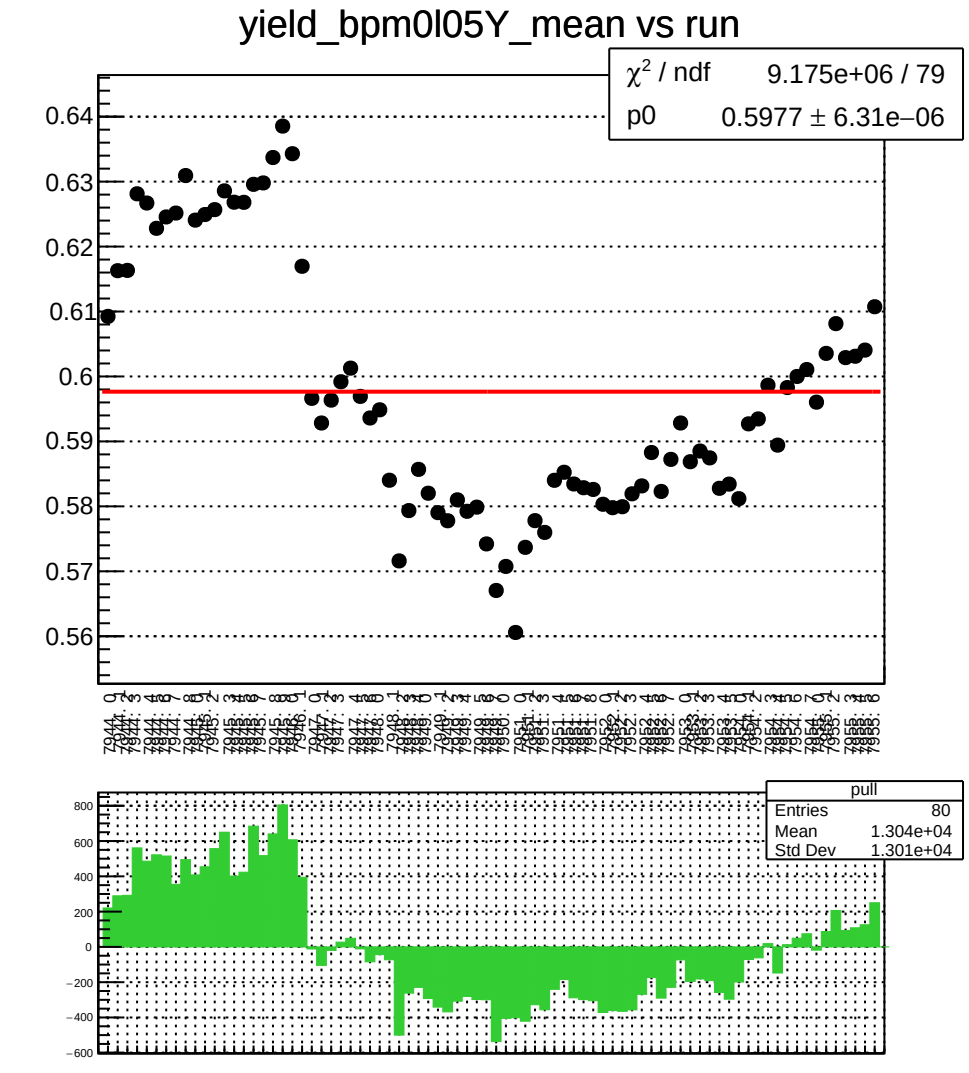

pull1D
Entries 80
Mean −4.447
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

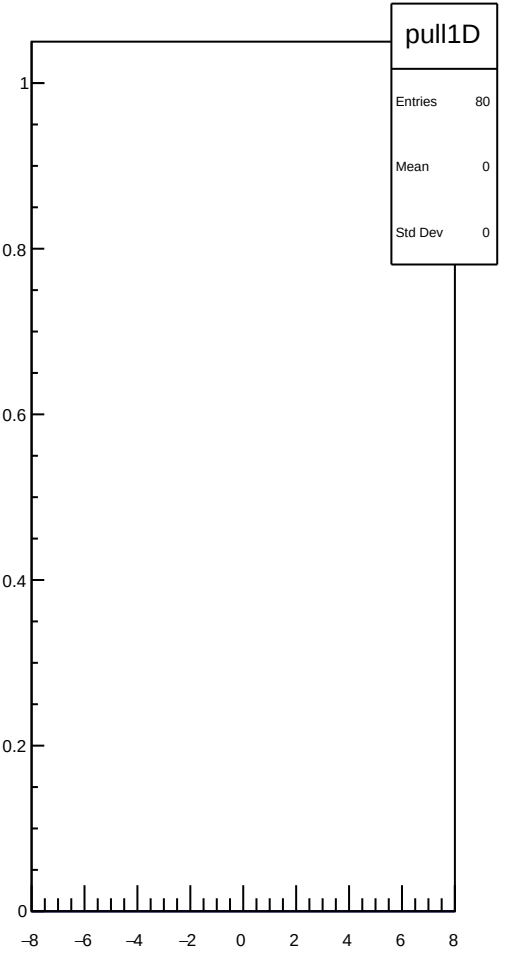

yield_bpm0l04Y_rms vs run
χ^2 / ndf 3.081e+04 / 79
p0 0.005474 ± 4.429e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

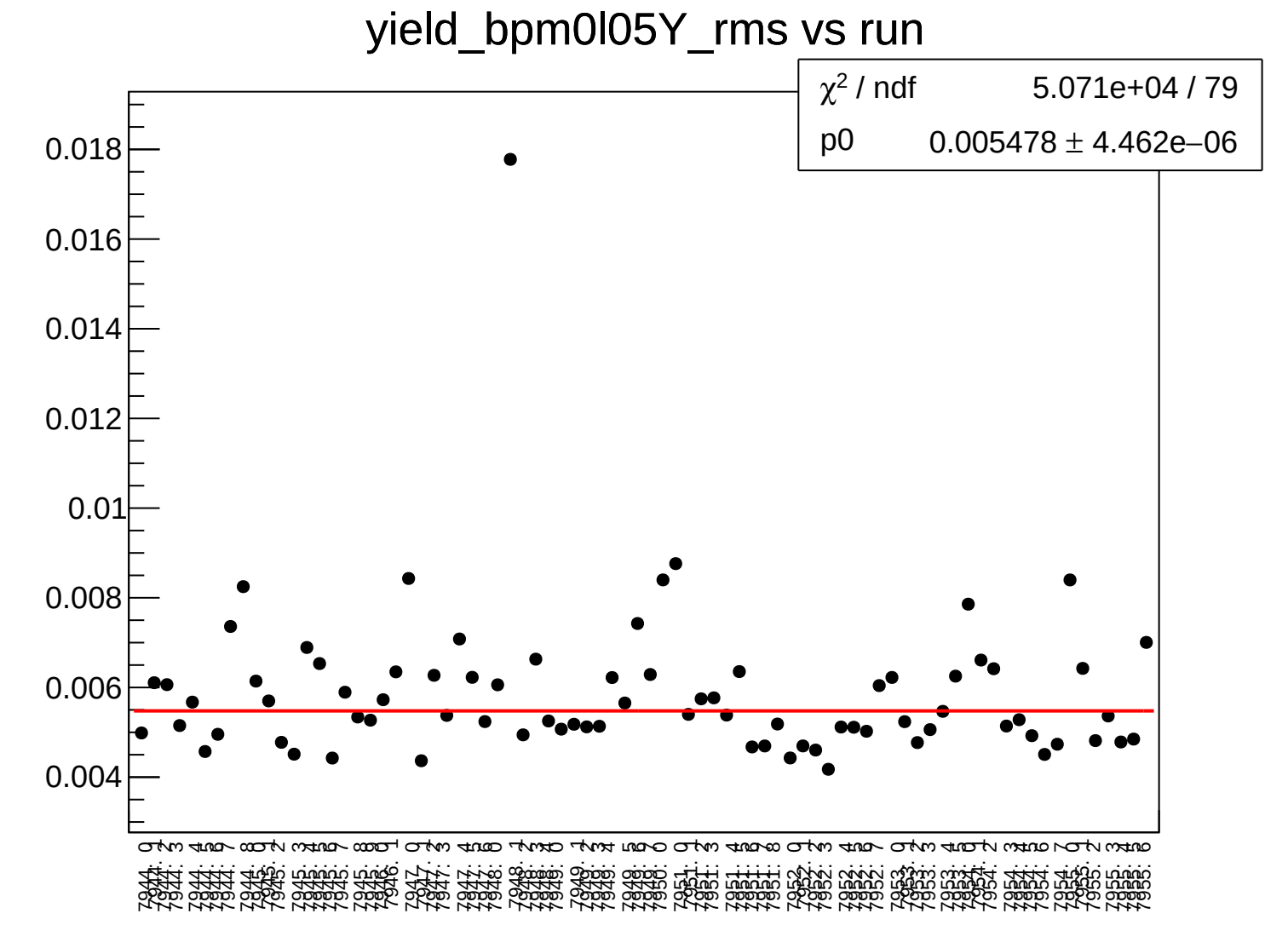

yield_bpm0l05X_mean vs run
χ² / ndf 2.55e+07 / 79
p0 0.557 ± 3.96e−06
pull
Entries 80
Mean −250.6
Std Dev 294.5

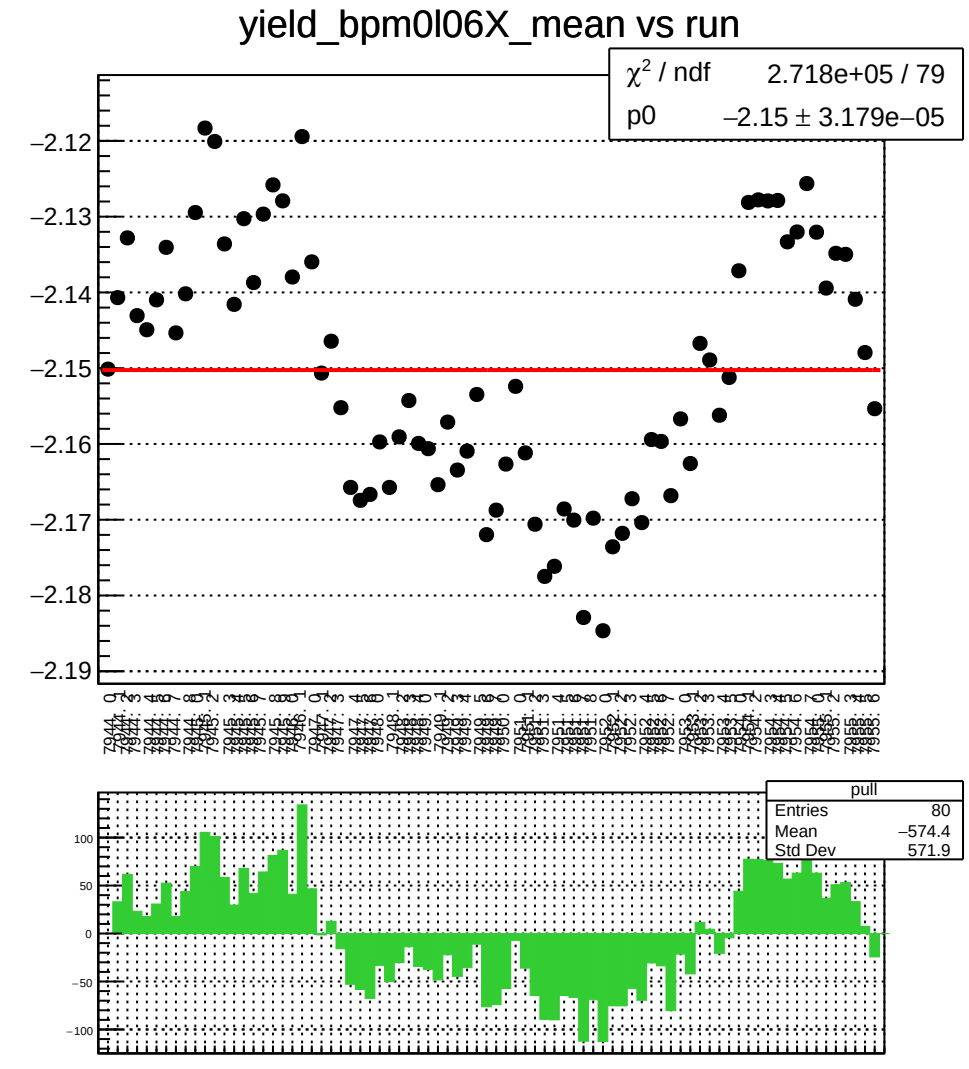

pull1D
Entries 80
Mean −6.435
Std Dev 0

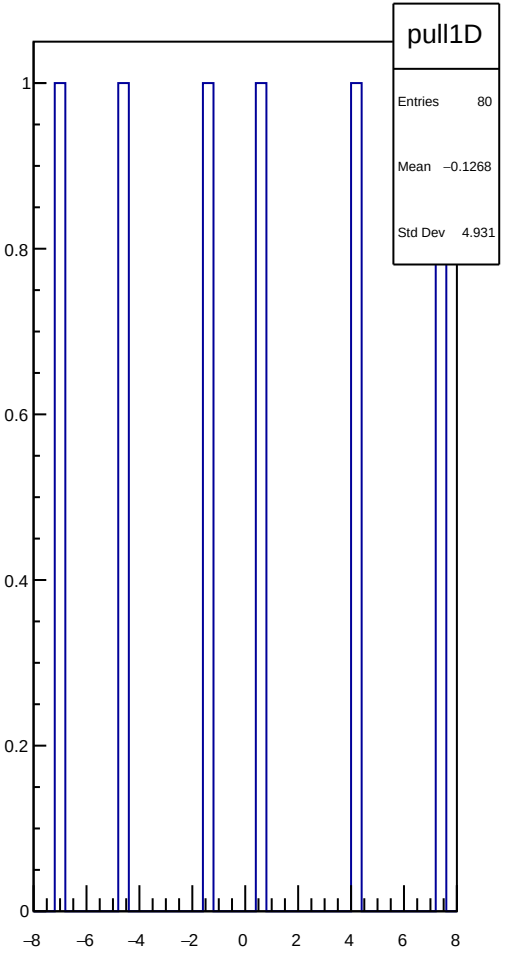

yield_bpm0l05X_rms vs run
χ² / ndf 9.16e+04 / 79
p0 0.003391 ± 2.8e−06
0.03
0.025
0.02
0.015
0.01
0.005

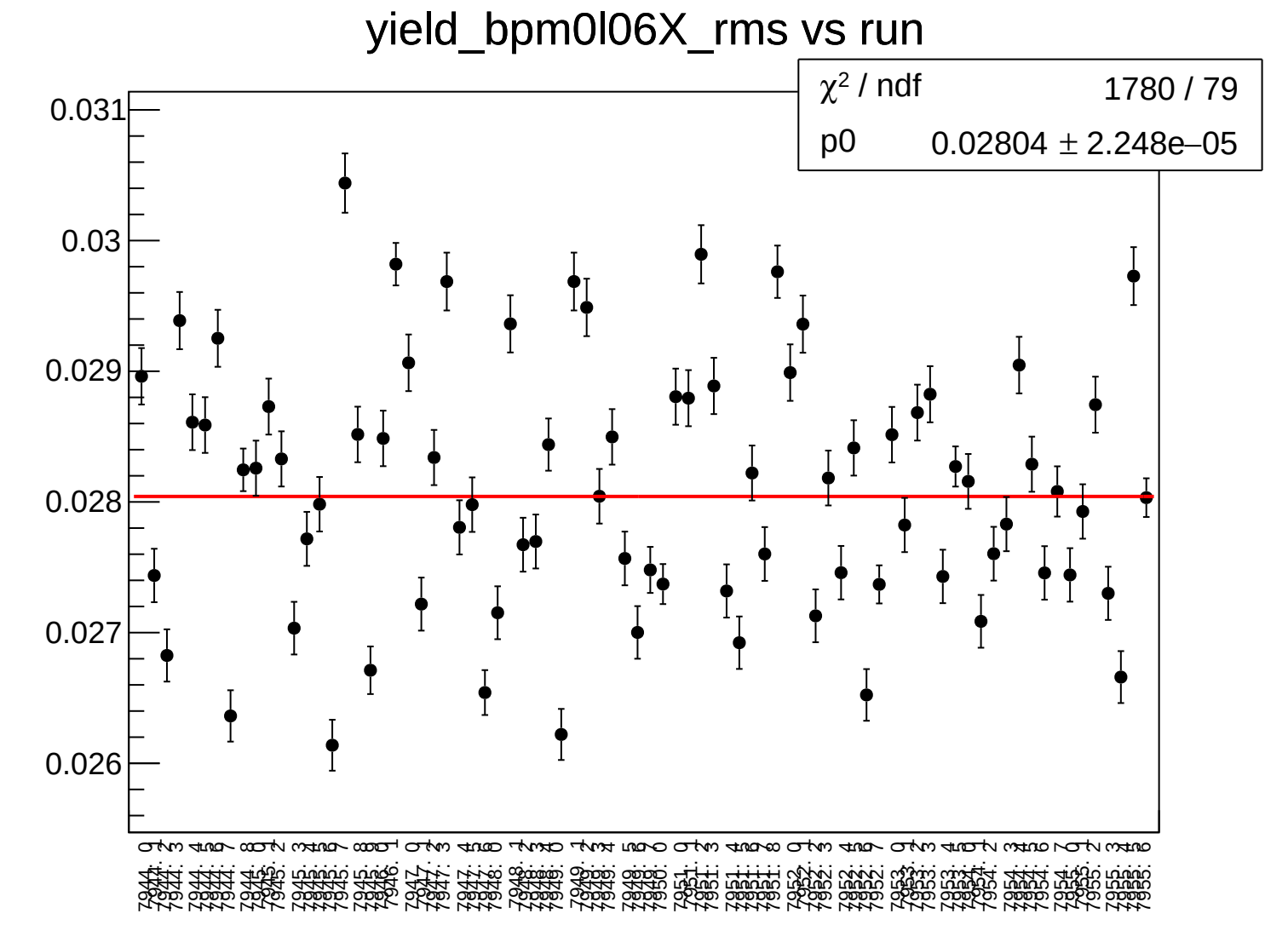

yield_bpm0l05Y_mean vs run
χ² / ndf 9.175e+06 / 79
p0 0.5977 ± 6.31e−06
pull
Entries 80
Mean 1.304e+04
Std Dev 1.301e+04

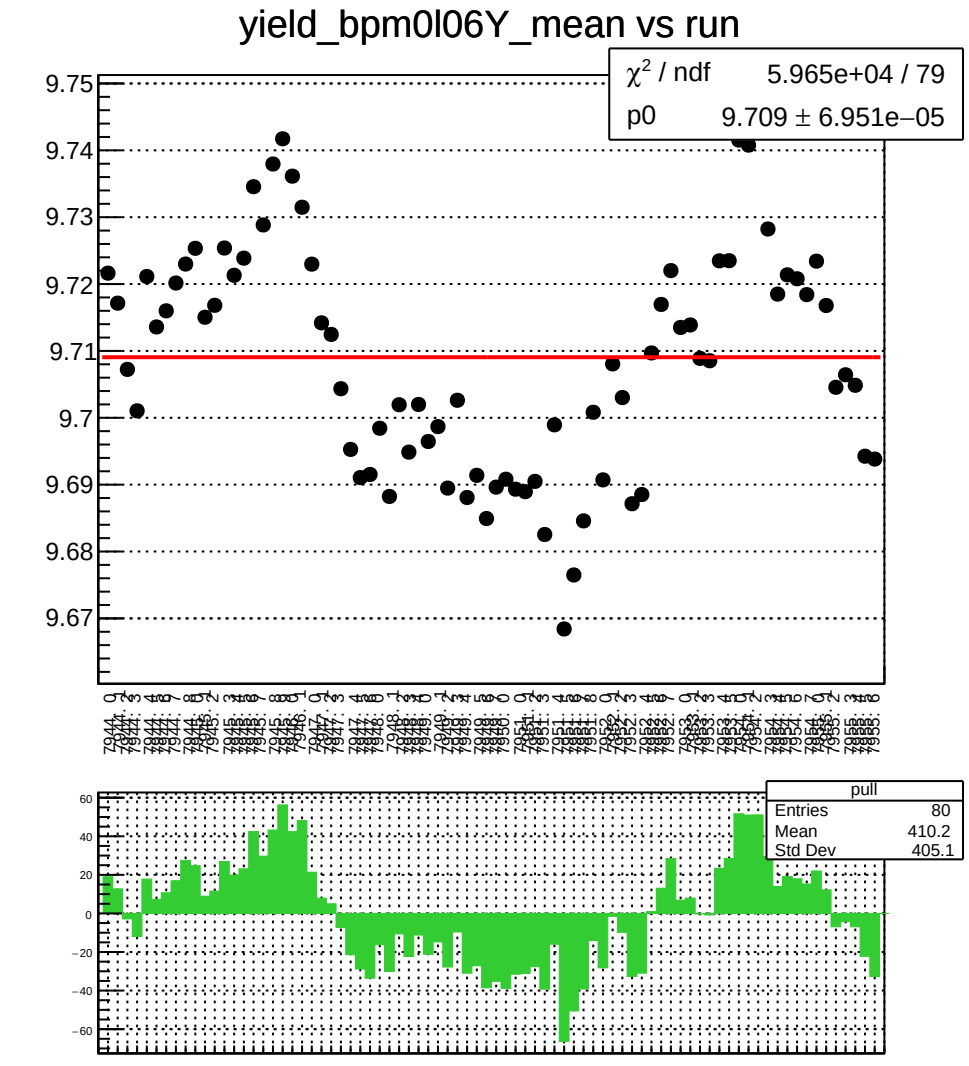

pull1D
Entries 80
Mean 0
Std Dev 0

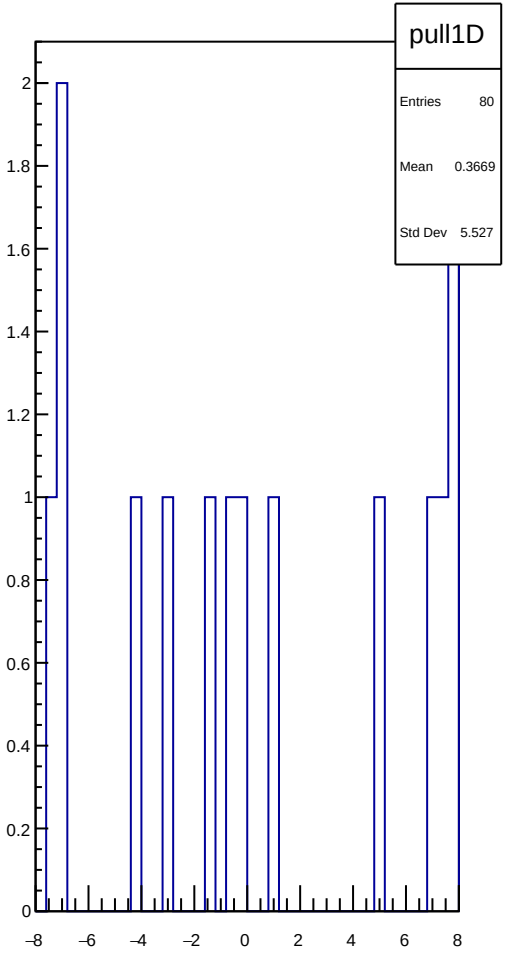

yield_bpm0l05Y_rms vs run
χ^2 / ndf 5.071e+04 / 79
p0 0.005478 ± 4.462e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

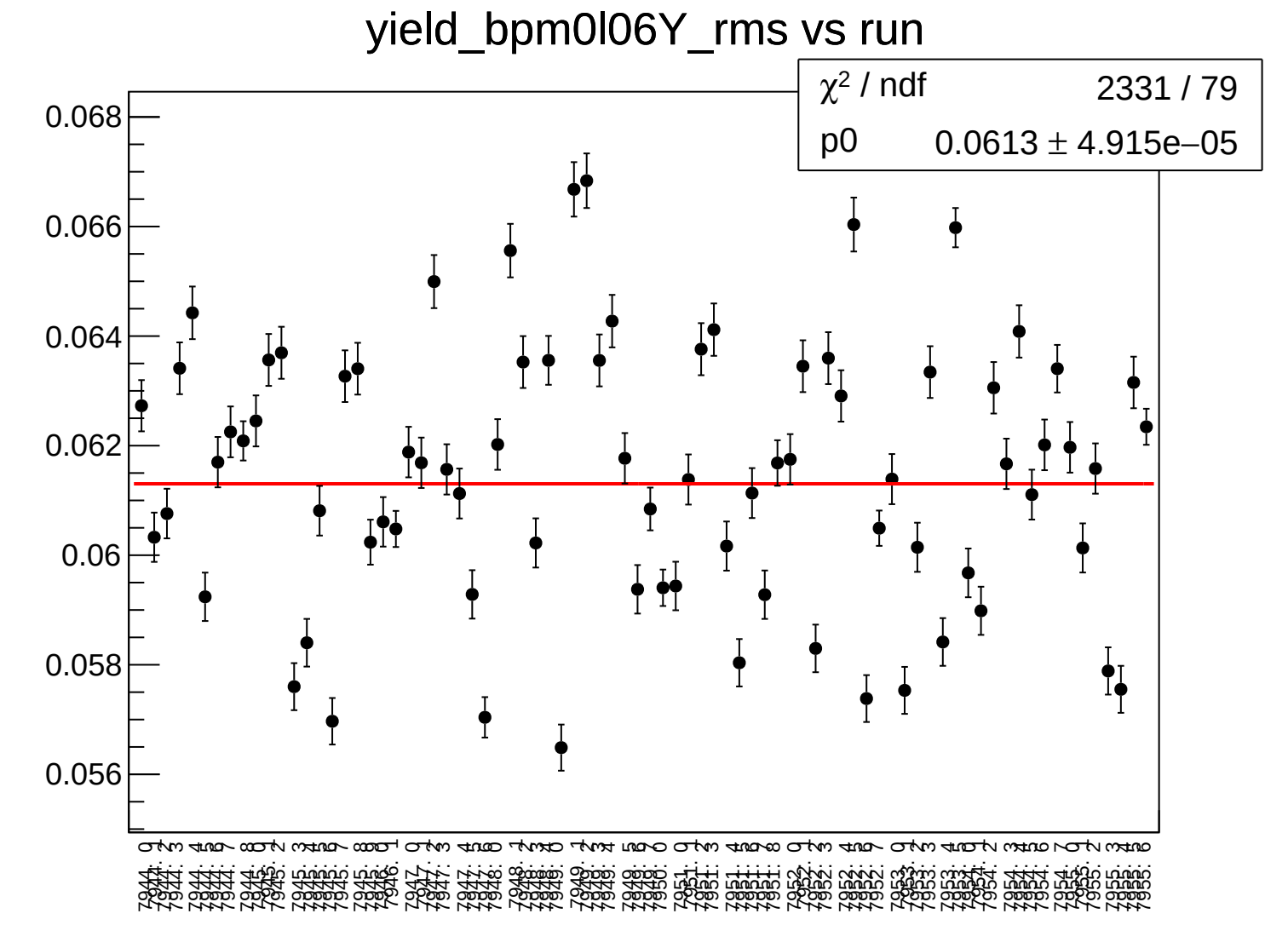

yield_bpm0l06X_mean vs run
χ² / ndf 2.718e+05 / 79
p0 −2.15 ± 3.179e−05
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
−2.18
−2.19
pull
Entries 80
Mean −574.4
Std Dev 571.9
100
50
0
−50
−100

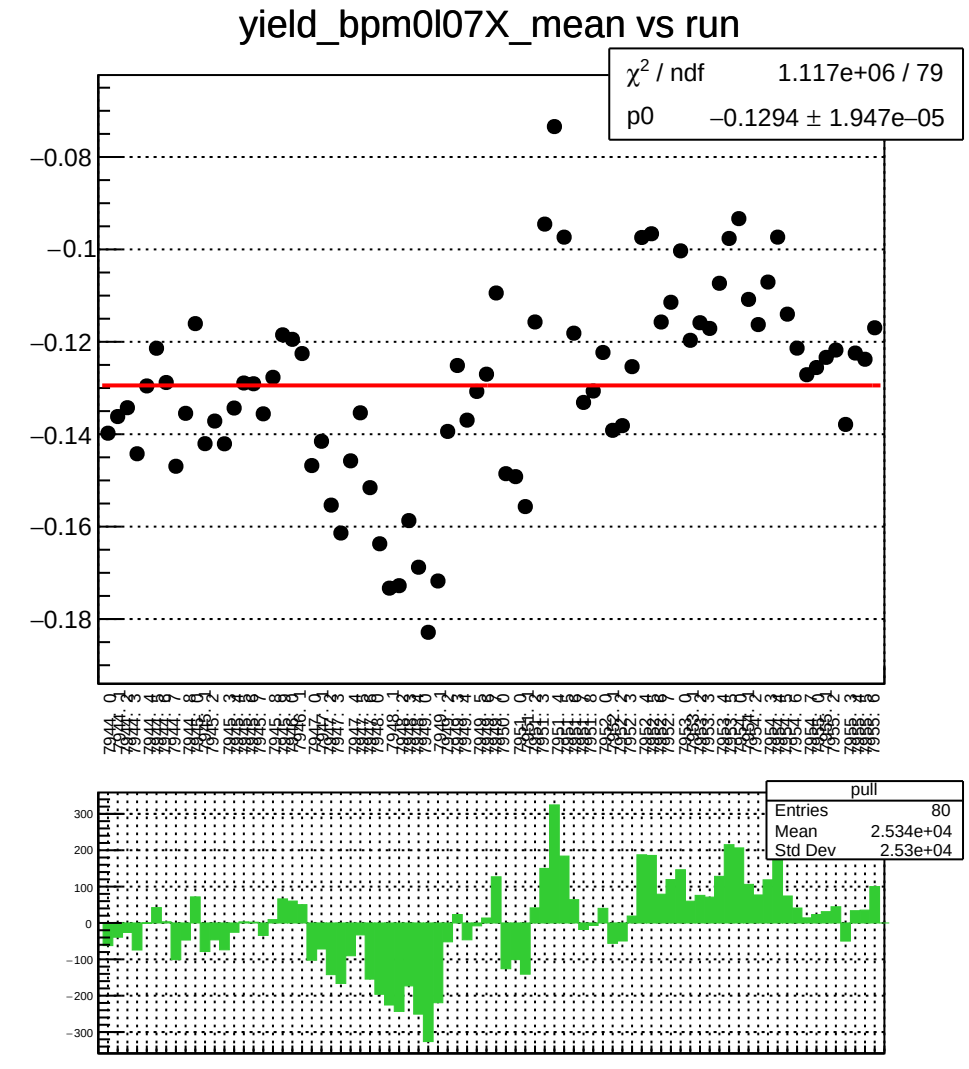

pull1D
Entries 80
Mean −0.1268
Std Dev 4.931
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

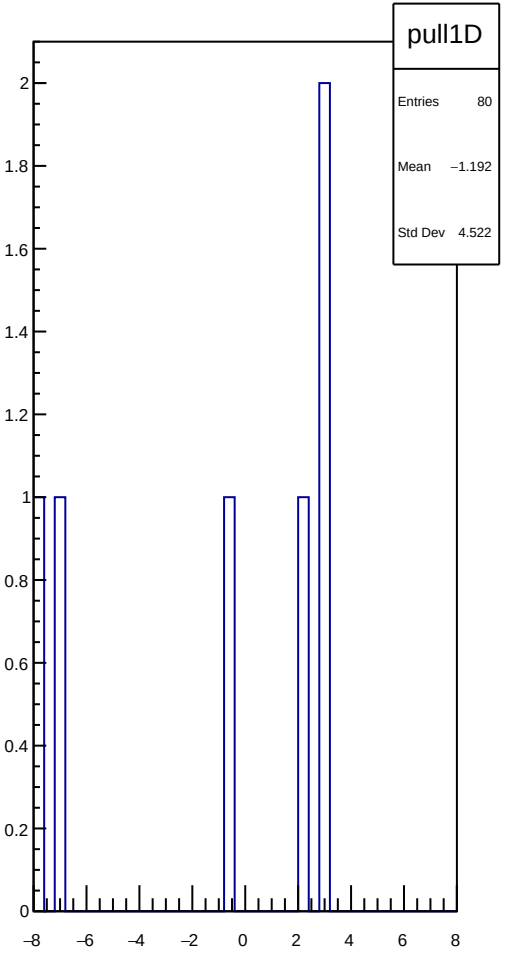

yield_bpm0l06X_rms vs run
χ² / ndf 1780 / 79
p0 0.02804 ± 2.248e–05
0.031
0.03
0.029
0.028
0.027
0.026

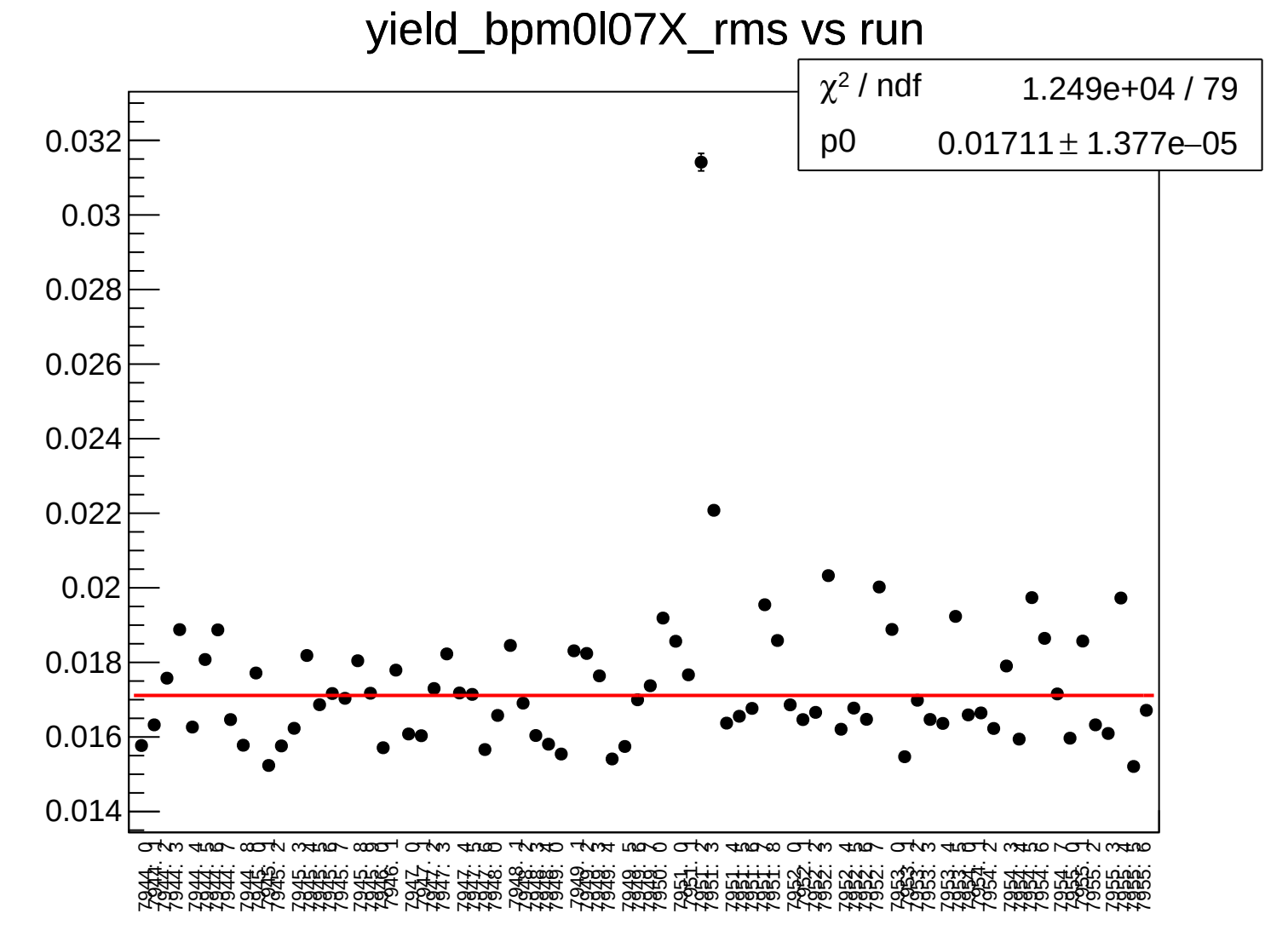

yield_bpm0l06Y_mean vs run
χ² / ndf 5.965e+04 / 79
p0 9.709 ± 6.951e−05
9.75
9.74
9.73
9.72
9.71
9.7
9.69
9.68
9.67
pull
Entries 80
Mean 410.2
Std Dev 405.1
60
40
20
0
−20
−40
−60

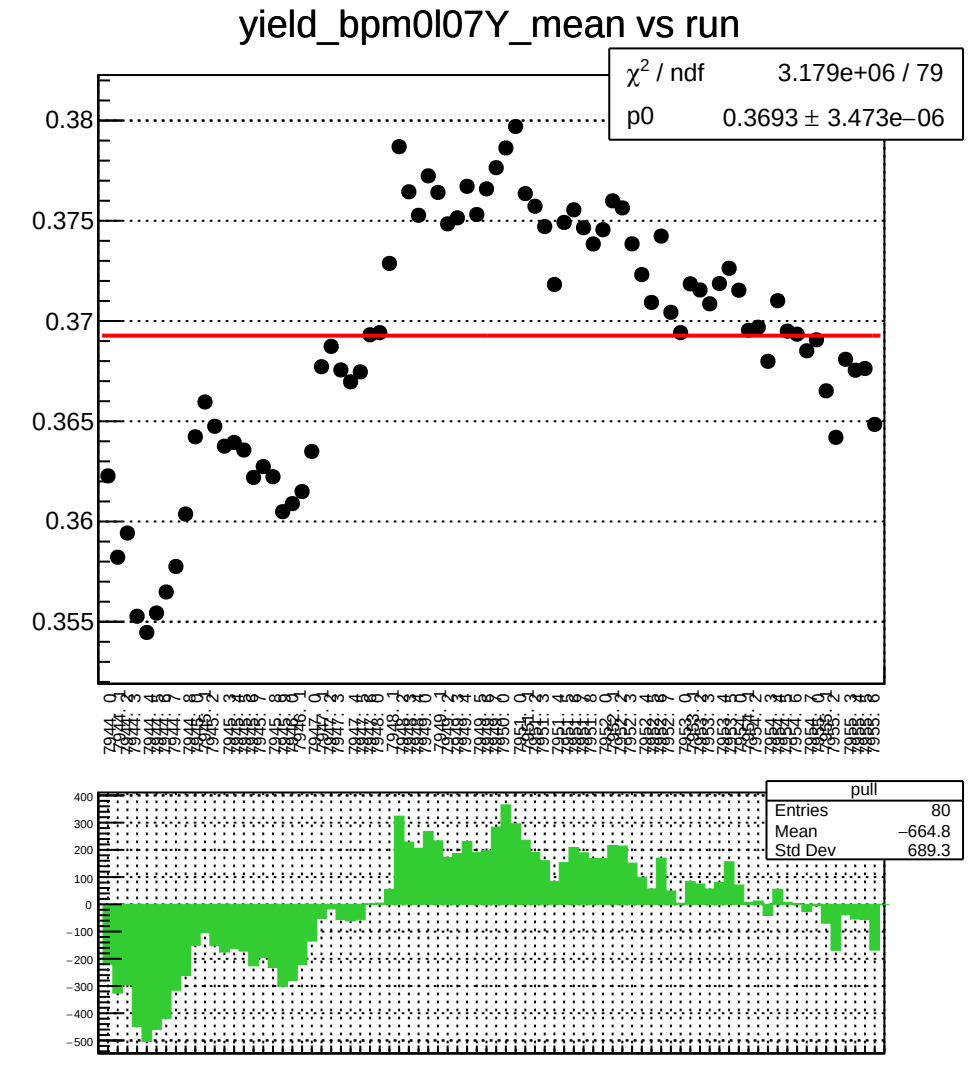

pull1D
Entries 80
Mean 0.3669
Std Dev 5.527
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

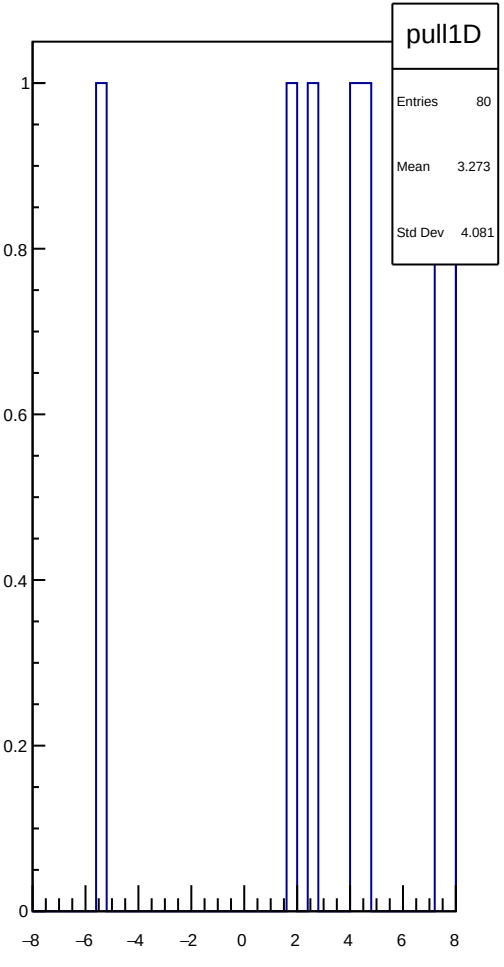

yield_bpm0l06Y_rms vs run
χ² / ndf 2331 / 79
p0 0.0613 ± 4.915e−05
0.068
0.066
0.064
0.062
0.06
0.058
0.056

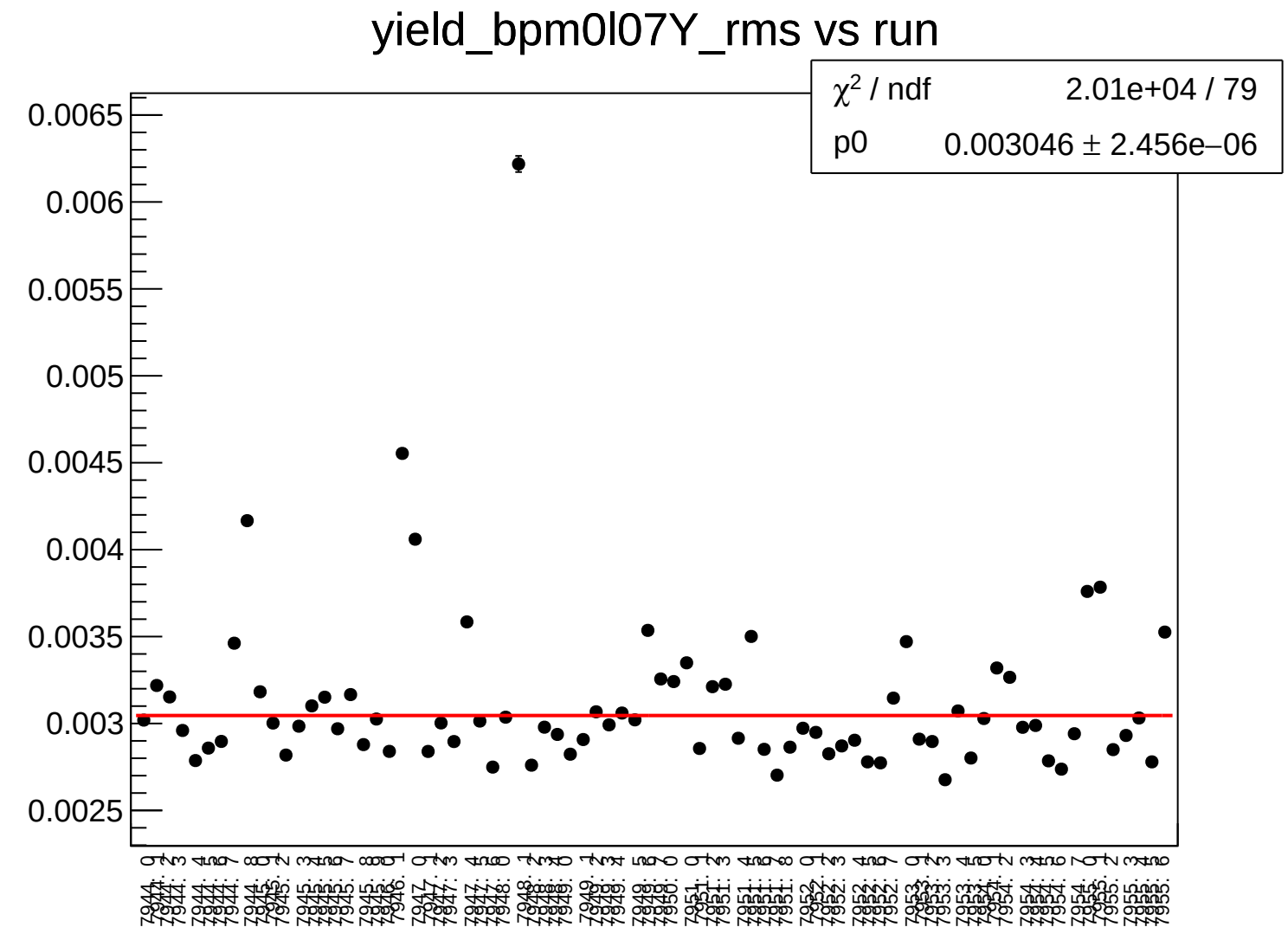

yield_bpm0l07X_mean vs run
χ² / ndf 1.117e+06 / 79
p0 −0.1294 ± 1.947e−05
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 80
Mean 2.534e+04
Std Dev 2.53e+04
300
200
100
0
−100
−200
−300

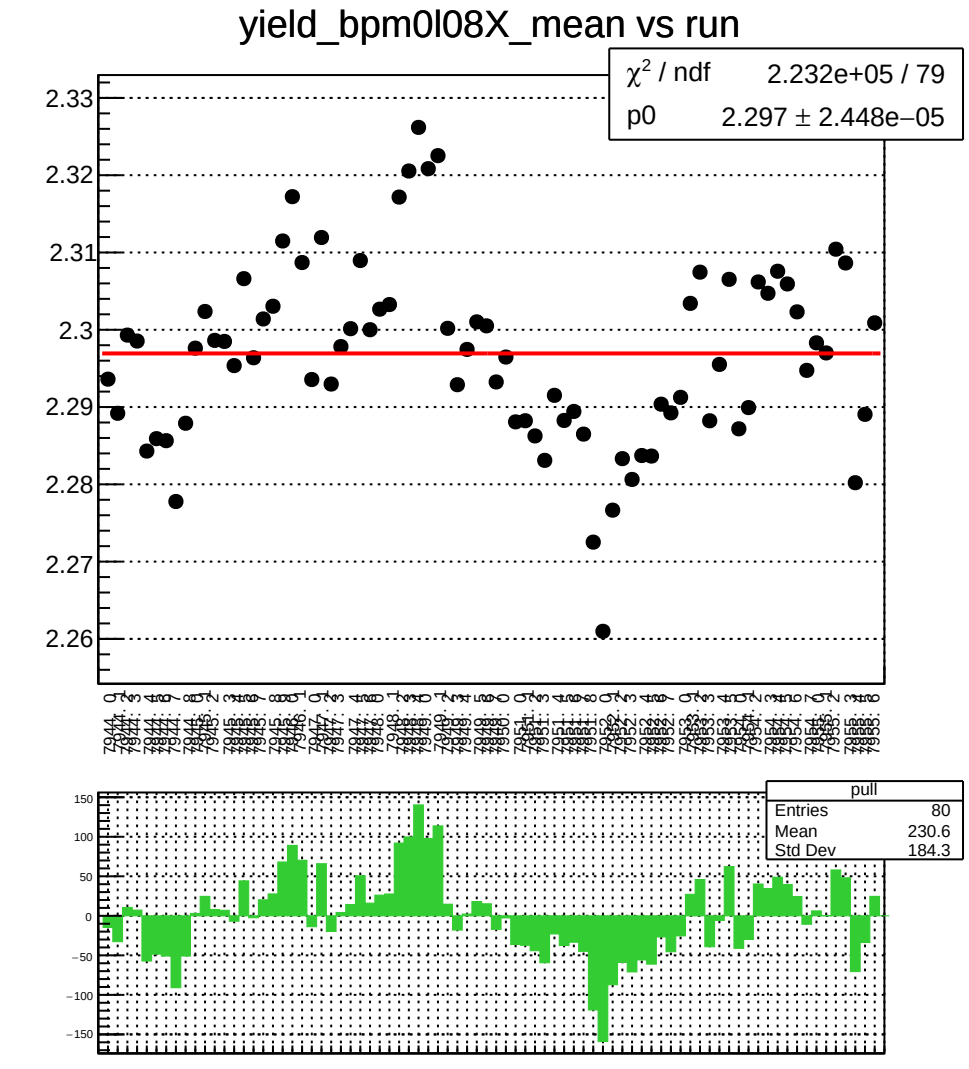

pull1D
Entries 80
Mean −1.192
Std Dev 4.522
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

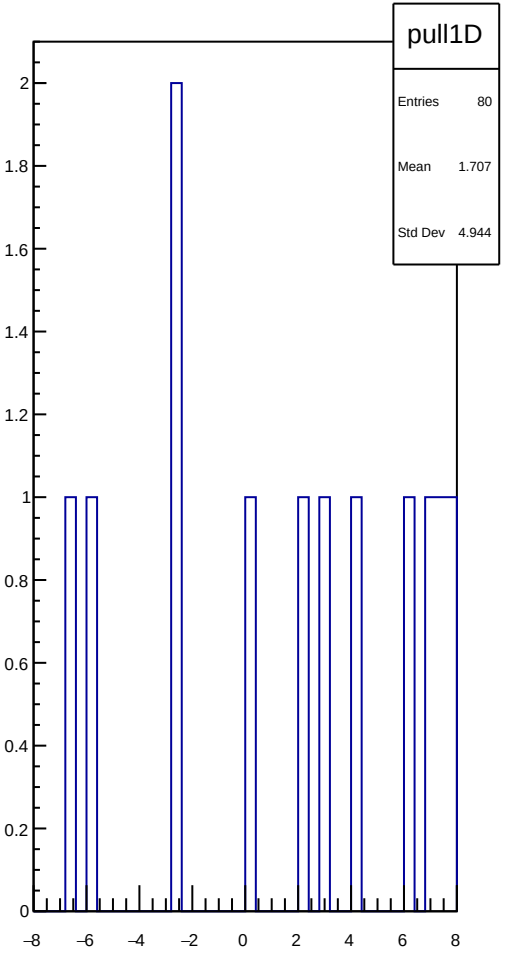

yield_bpm0l07X_rms vs run
χ² / ndf 1.249e+04 / 79
p0 0.01711 ± 1.377e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

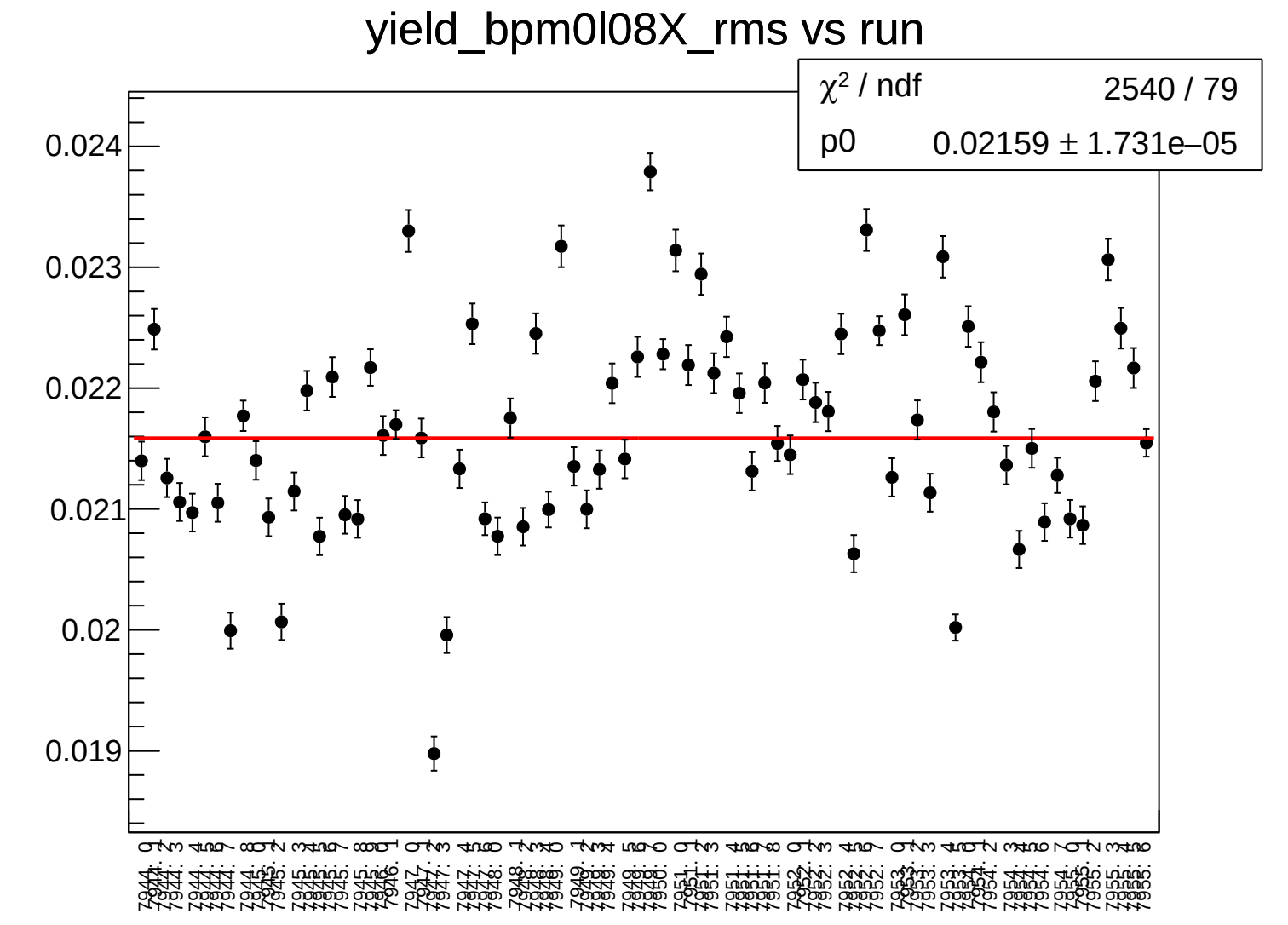

yield_bpm0l07Y_mean vs run
χ² / ndf 3.179e+06 / 79
p0 0.3693 ± 3.473e−06
0.38
0.375
0.37
0.365
0.36
0.355
pull
Entries 80
Mean −664.8
Std Dev 689.3
400
300
200
100
0
−100
−200
−300
−400
−500

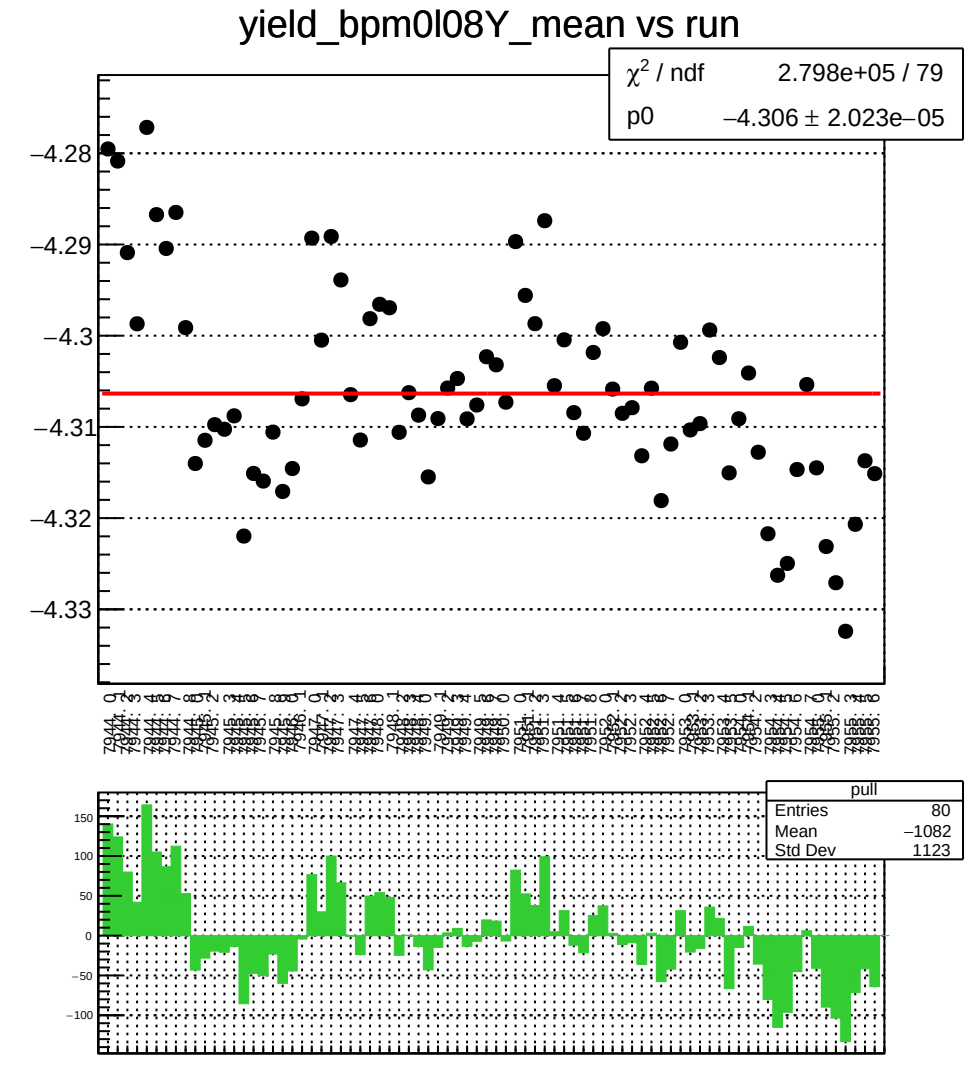

pull1D
Entries 80
Mean 3.273
Std Dev 4.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

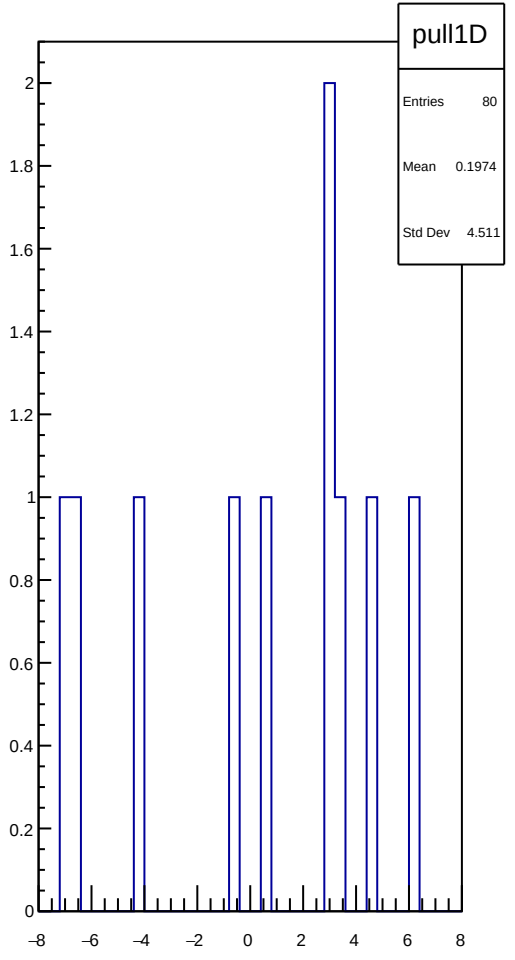

yield_bpm0l07Y_rms vs run
χ² / ndf 2.01e+04 / 79
p0 0.003046 ± 2.456e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

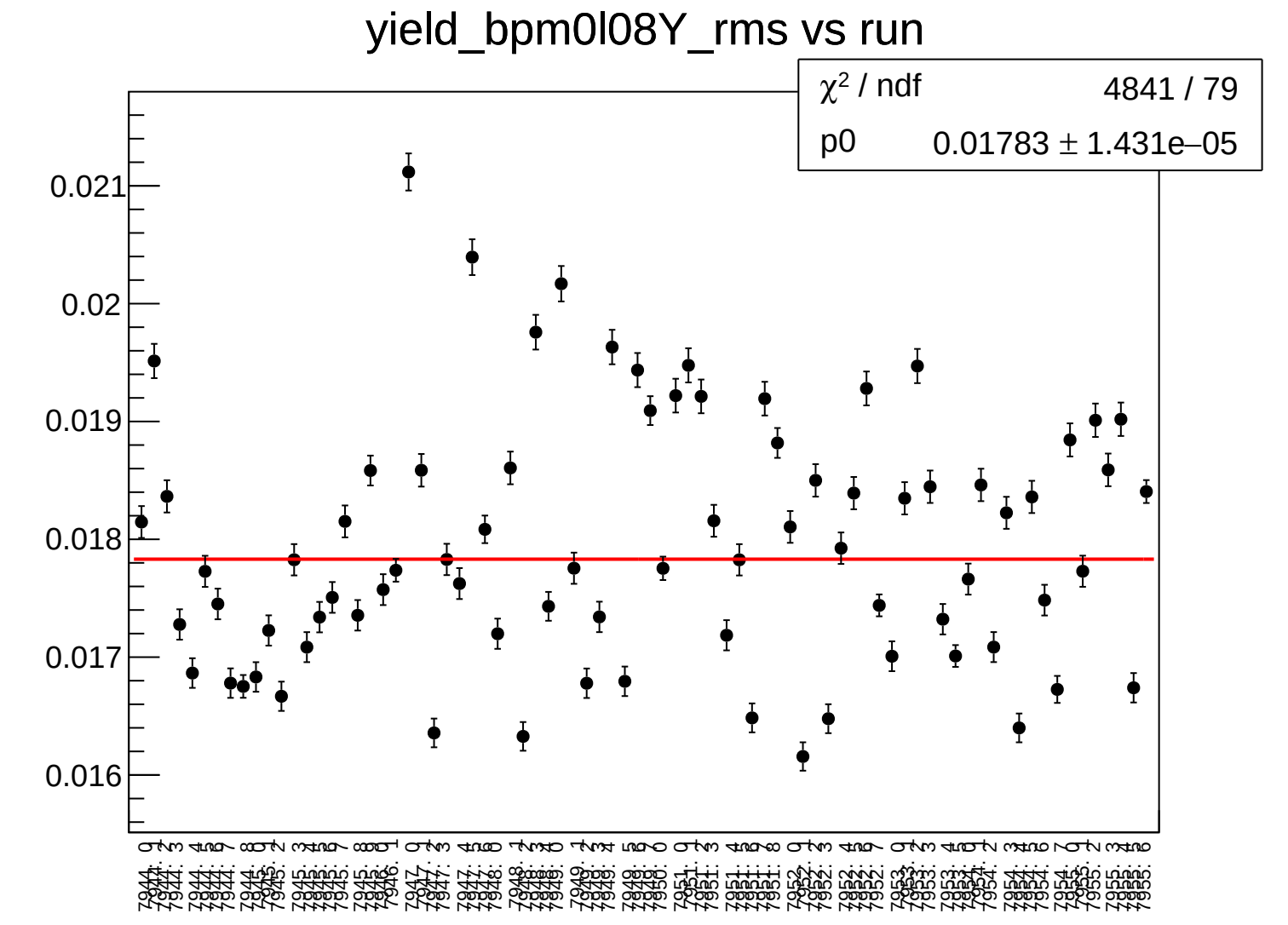

yield_bpm0l08X_mean vs run
χ² / ndf 2.232e+05 / 79
p0 2.297 ± 2.448e−05
pull
Entries 80
Mean 230.6
Std Dev 184.3

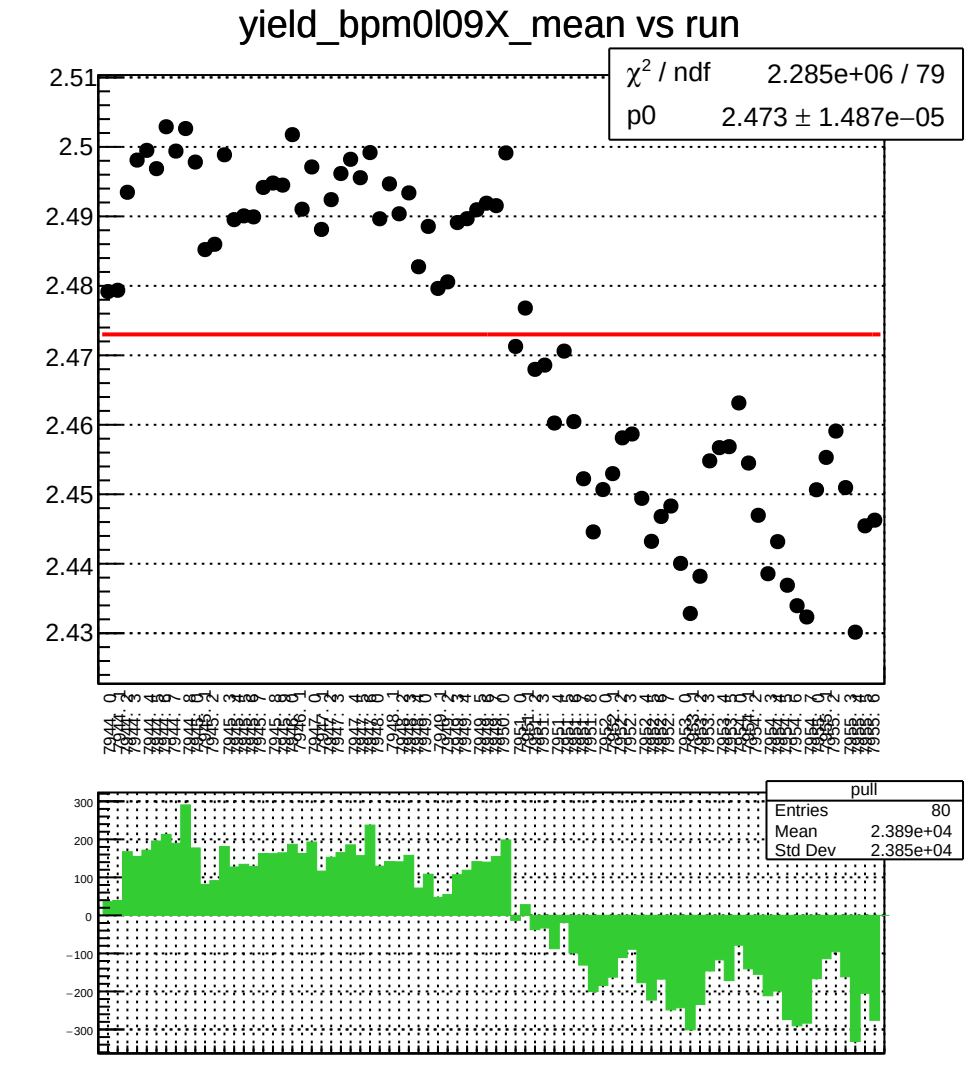

pull1D
Entries 80
Mean 1.707
Std Dev 4.944

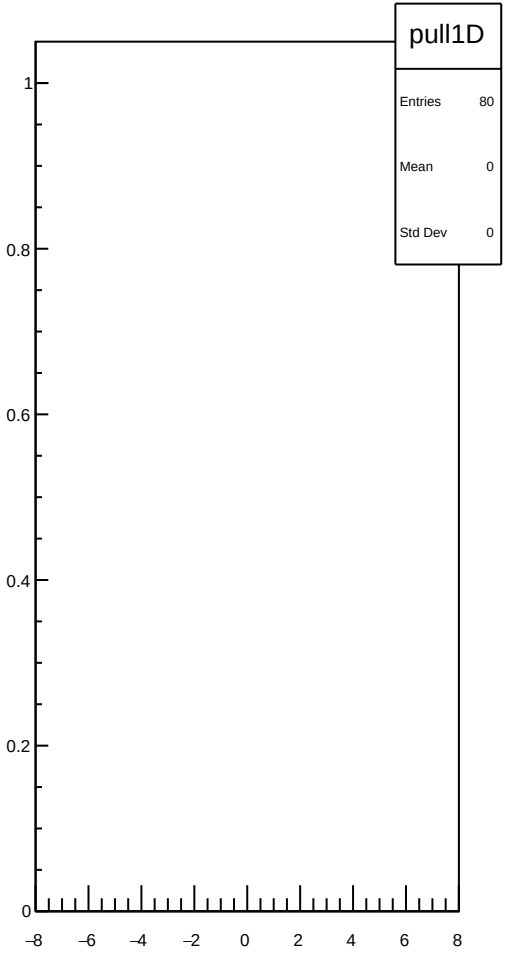

yield_bpm0l08X_rms vs run
χ² / ndf 2540 / 79
p0 0.02159 ± 1.731e–05
0.024
0.023
0.022
0.021
0.02
0.019

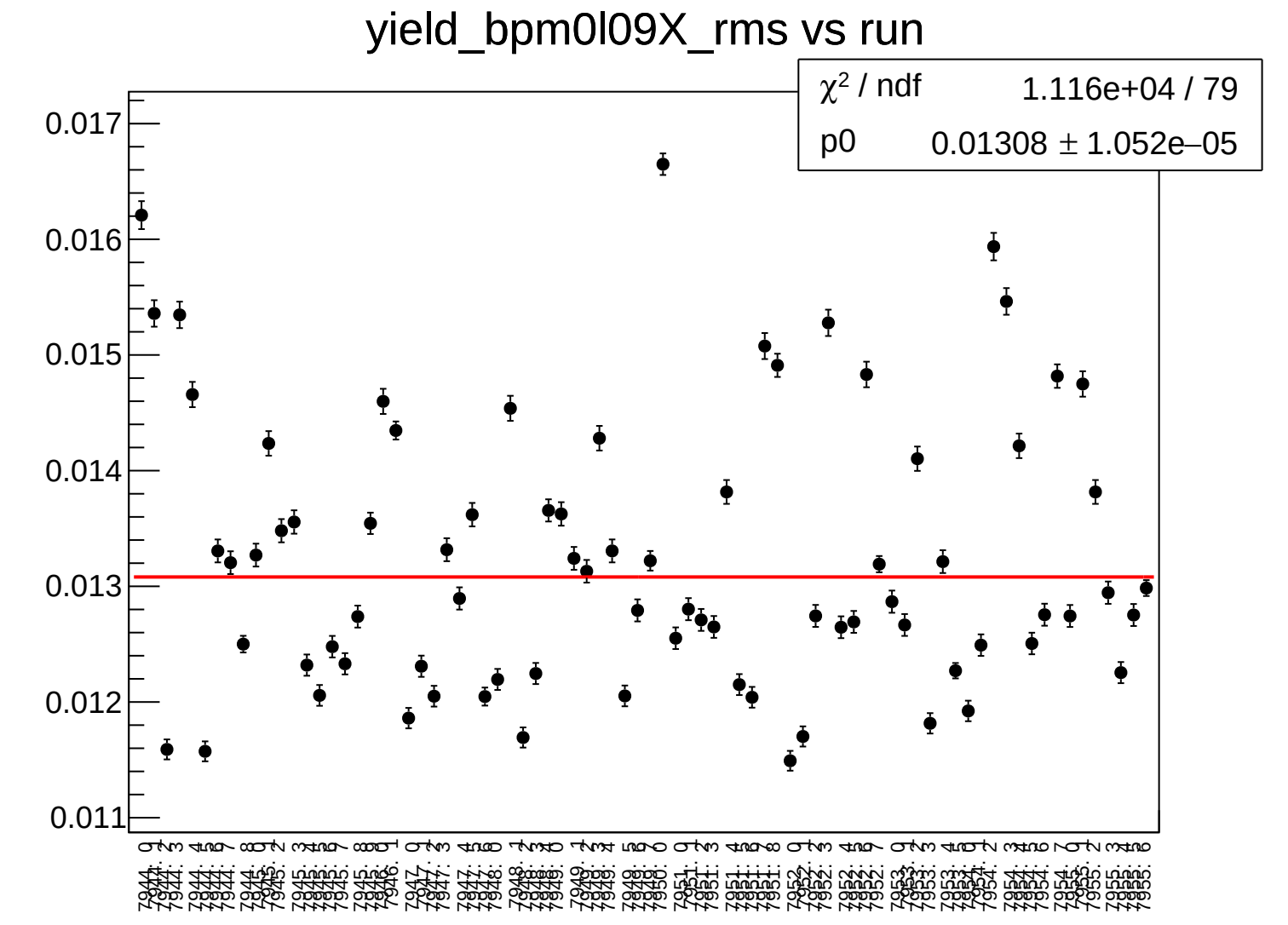

yield_bpm0l08Y_mean vs run
χ² / ndf 2.798e+05 / 79
p0 −4.306 ± 2.023e−05
−4.28
−4.29
−4.3
−4.31
−4.32
−4.33
pull
Entries 80
Mean −1082
Std Dev 1123
150
100
50
0
−50
−100

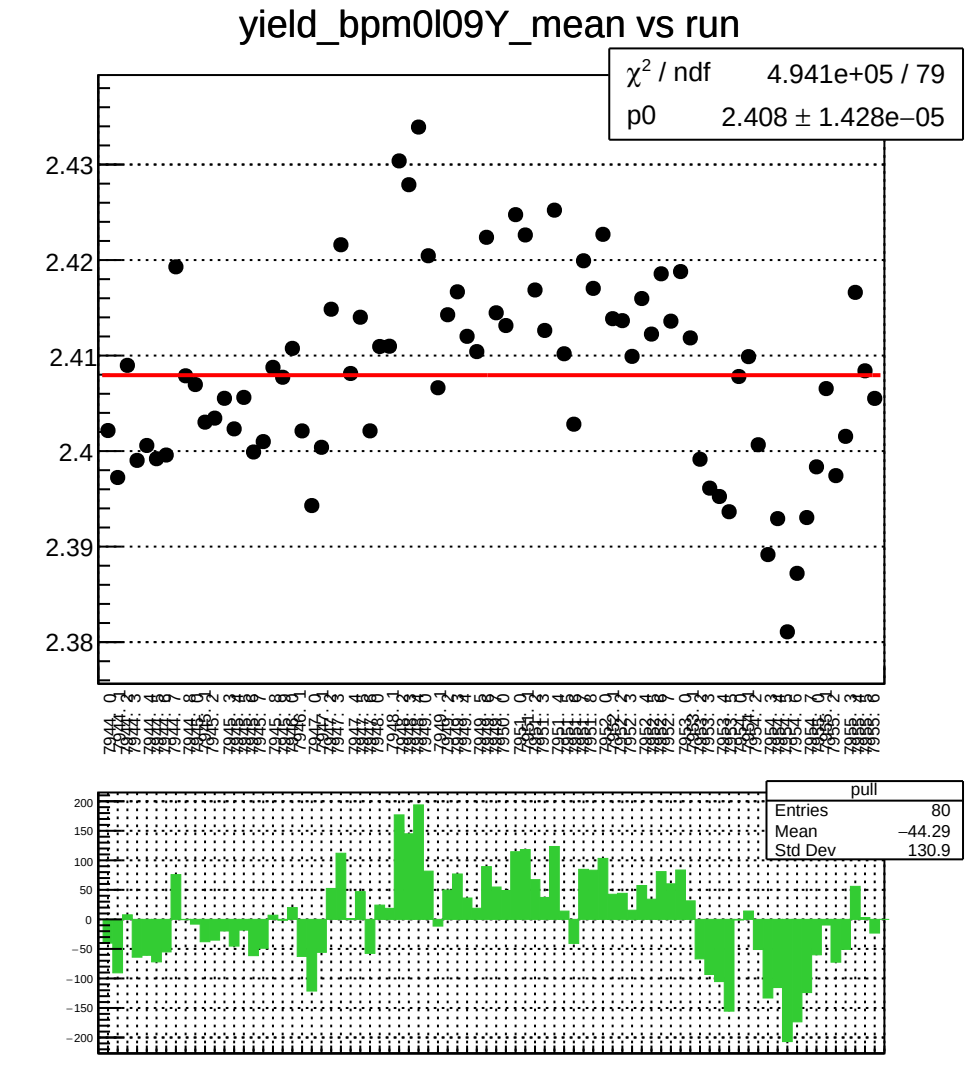

pull1D
Entries 80
Mean 0.1974
Std Dev 4.511
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

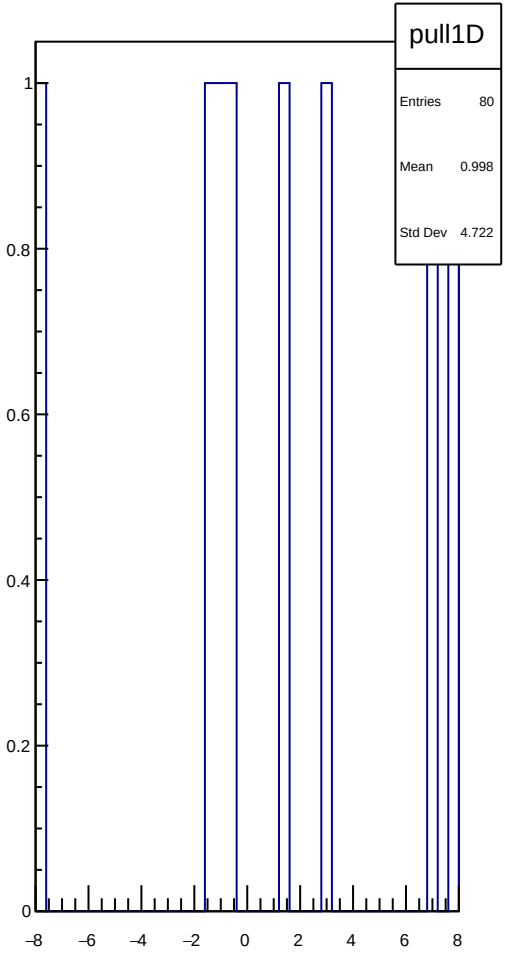

yield_bpm0l08Y_rms vs run
χ² / ndf 4841 / 79
p0 0.01783 ± 1.431e–05
0.021
0.02
0.019
0.018
0.017
0.016

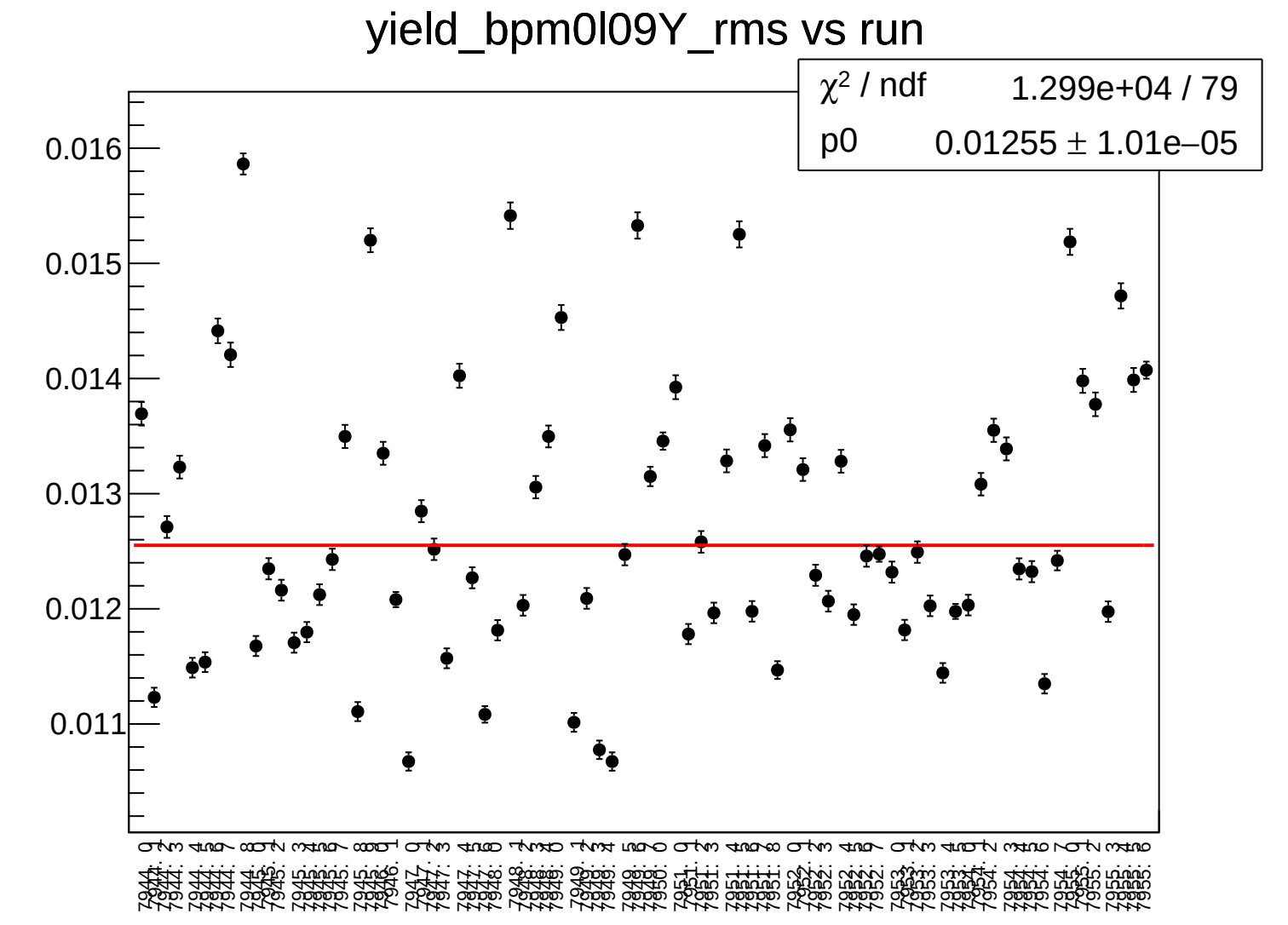

yield_bpm0l09X_mean vs run
χ² / ndf 2.285e+06 / 79
p0 2.473 ± 1.487e−05
2.51
2.5
2.49
2.48
2.47
2.46
2.45
2.44
2.43
pull
Entries 80
Mean 2.389e+04
Std Dev 2.385e+04
300
200
100
0
−100
−200
−300

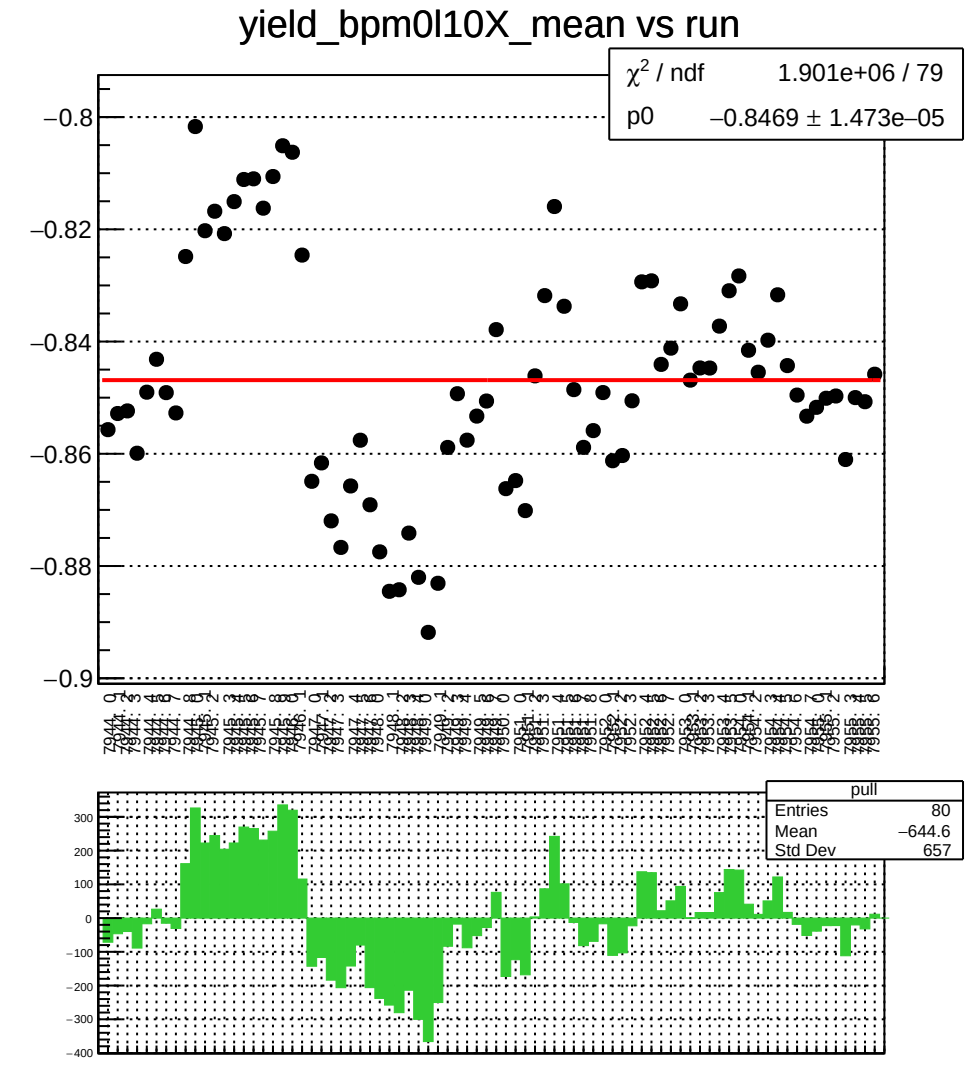

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

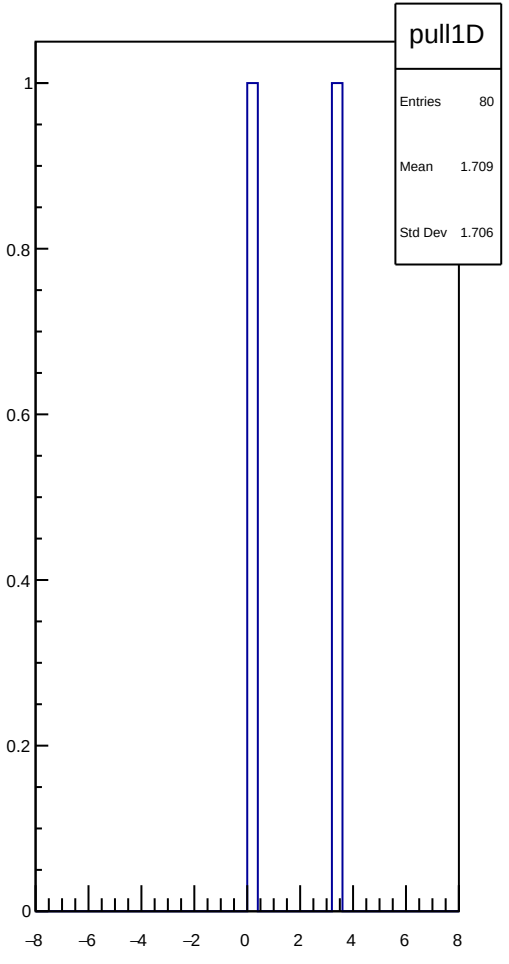

yield_bpm0l09X_rms vs run
χ² / ndf 1.116e+04 / 79
p0 0.01308 ± 1.052e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

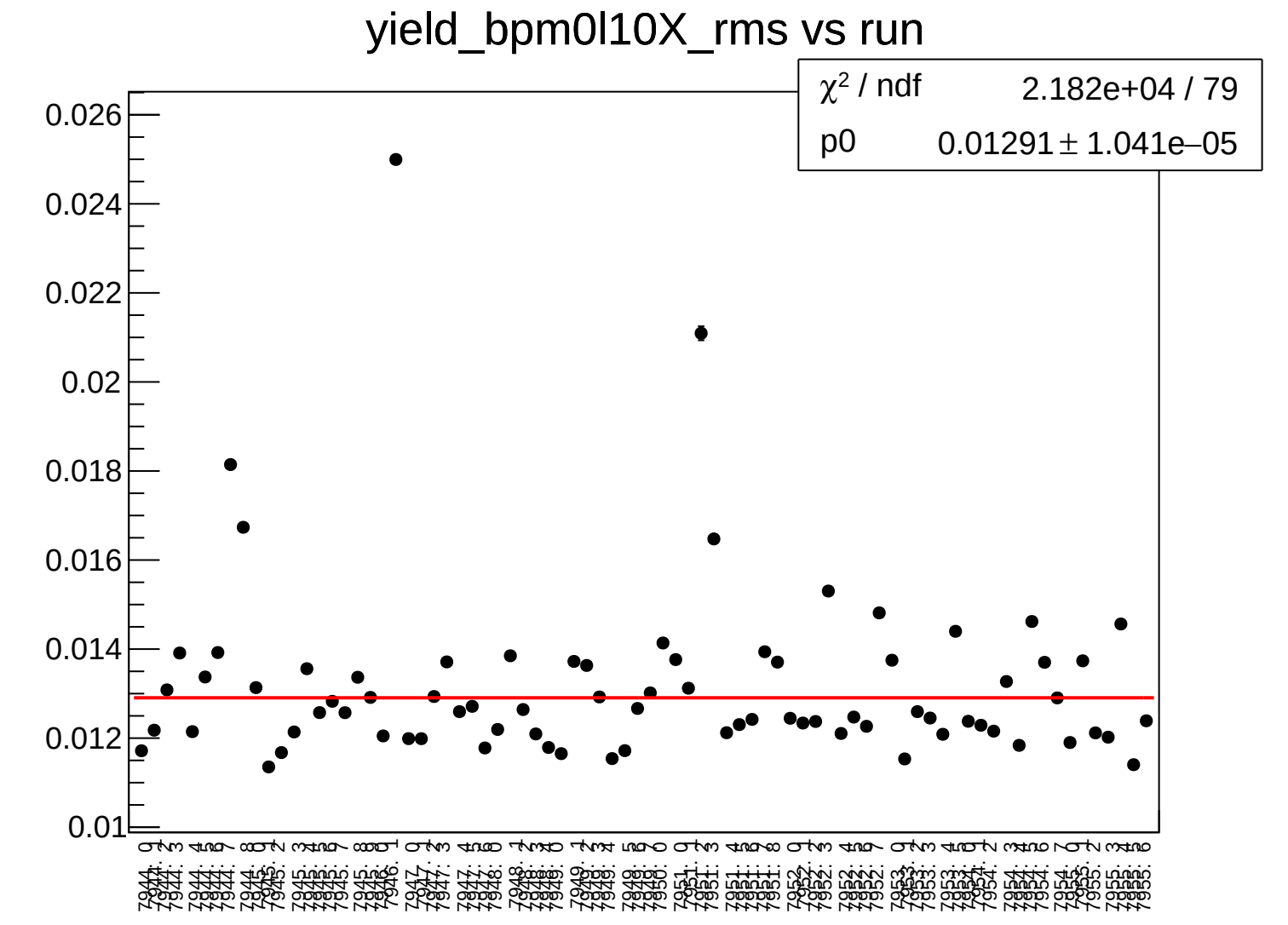

yield_bpm0l09Y_mean vs run
χ² / ndf 4.941e+05 / 79
p0 2.408 ± 1.428e−05
2.43
2.42
2.41
2.4
2.39
2.38
pull
Entries 80
Mean −44.29
Std Dev 130.9
200
150
100
50
0
−50
−100
−150
−200

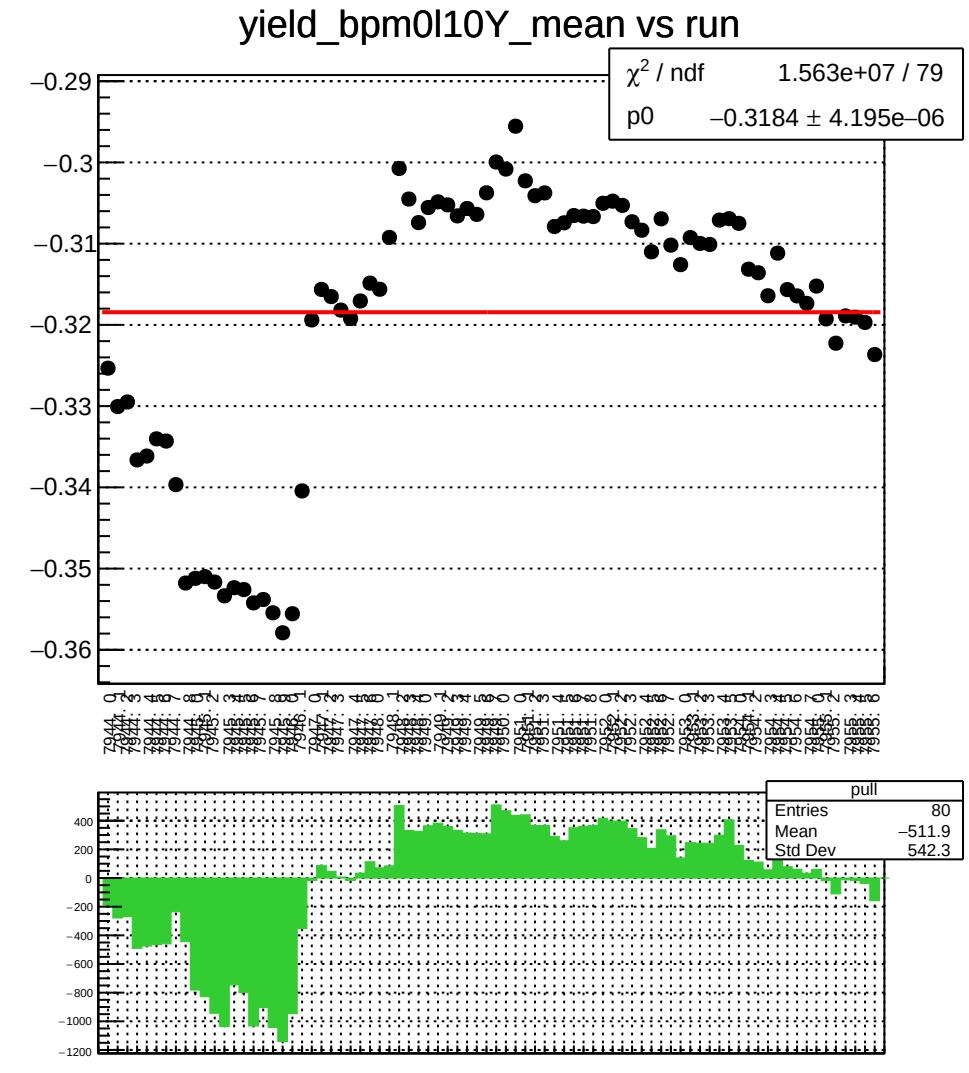

pull1D
Entries 80
Mean 0.998
Std Dev 4.722
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

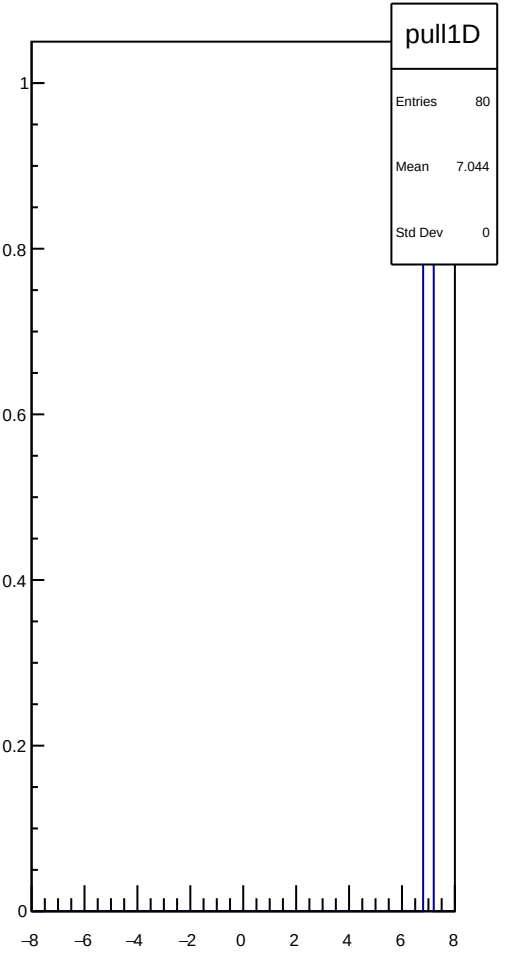

yield_bpm0l09Y_rms vs run
χ² / ndf 1.299e+04 / 79
p0 0.01255 ± 1.01e−05
0.016
0.015
0.014
0.013
0.012
0.011

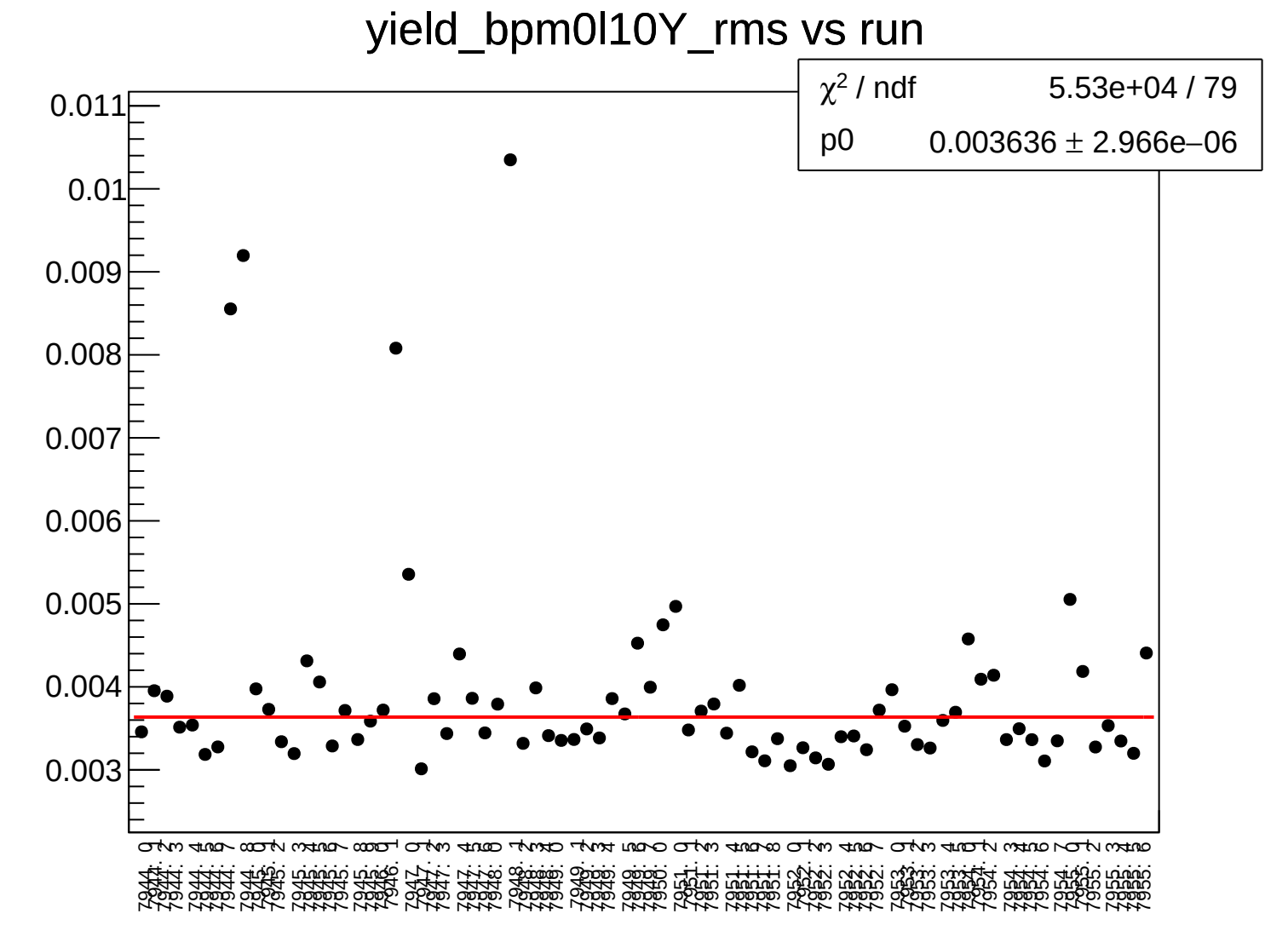

yield_bpm0l10X_mean vs run
χ² / ndf 1.901e+06 / 79
p0 −0.8469 ± 1.473e−05
pull
Entries 80
Mean −644.6
Std Dev 657

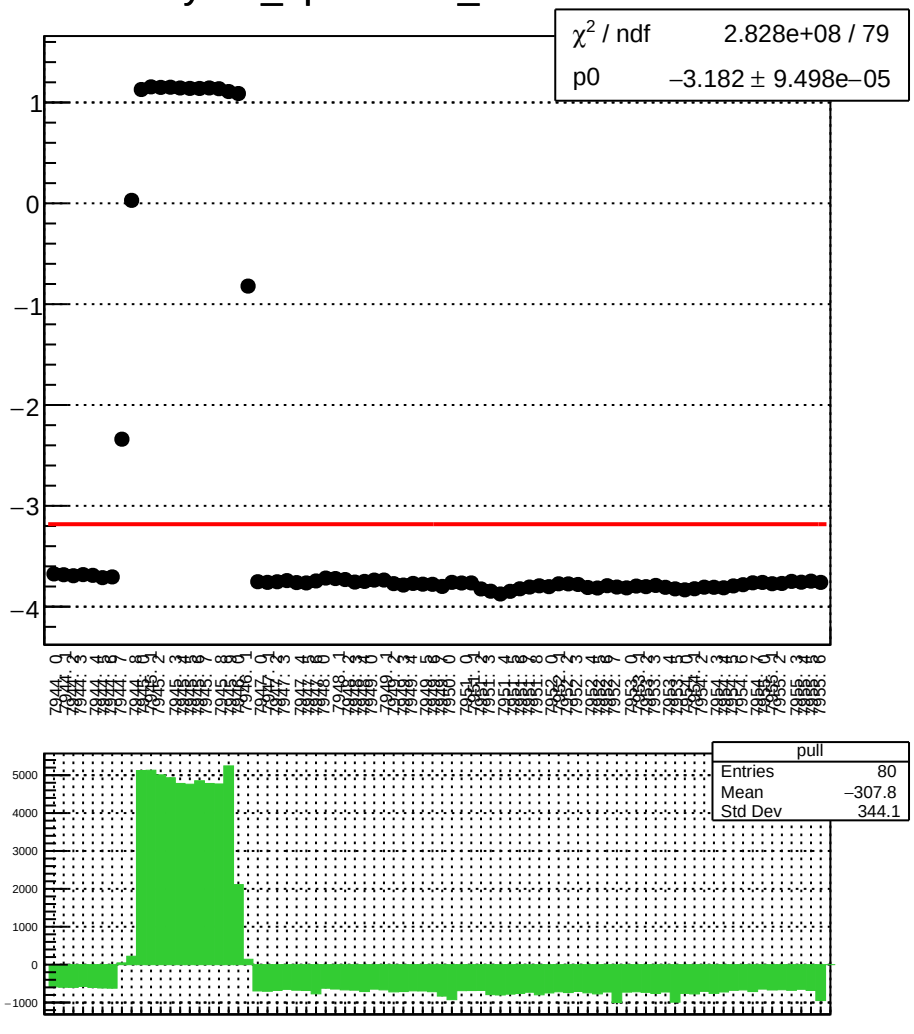

pull1D
Entries 80
Mean 1.709
Std Dev 1.706

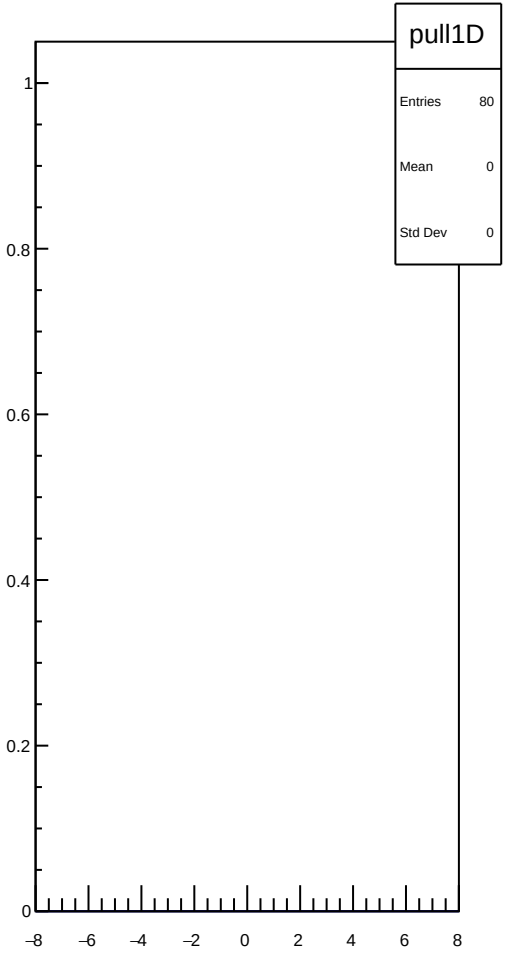

yield_bpm0l10X_rms vs run
χ² / ndf 2.182e+04 / 79
p0 0.01291 ± 1.041e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

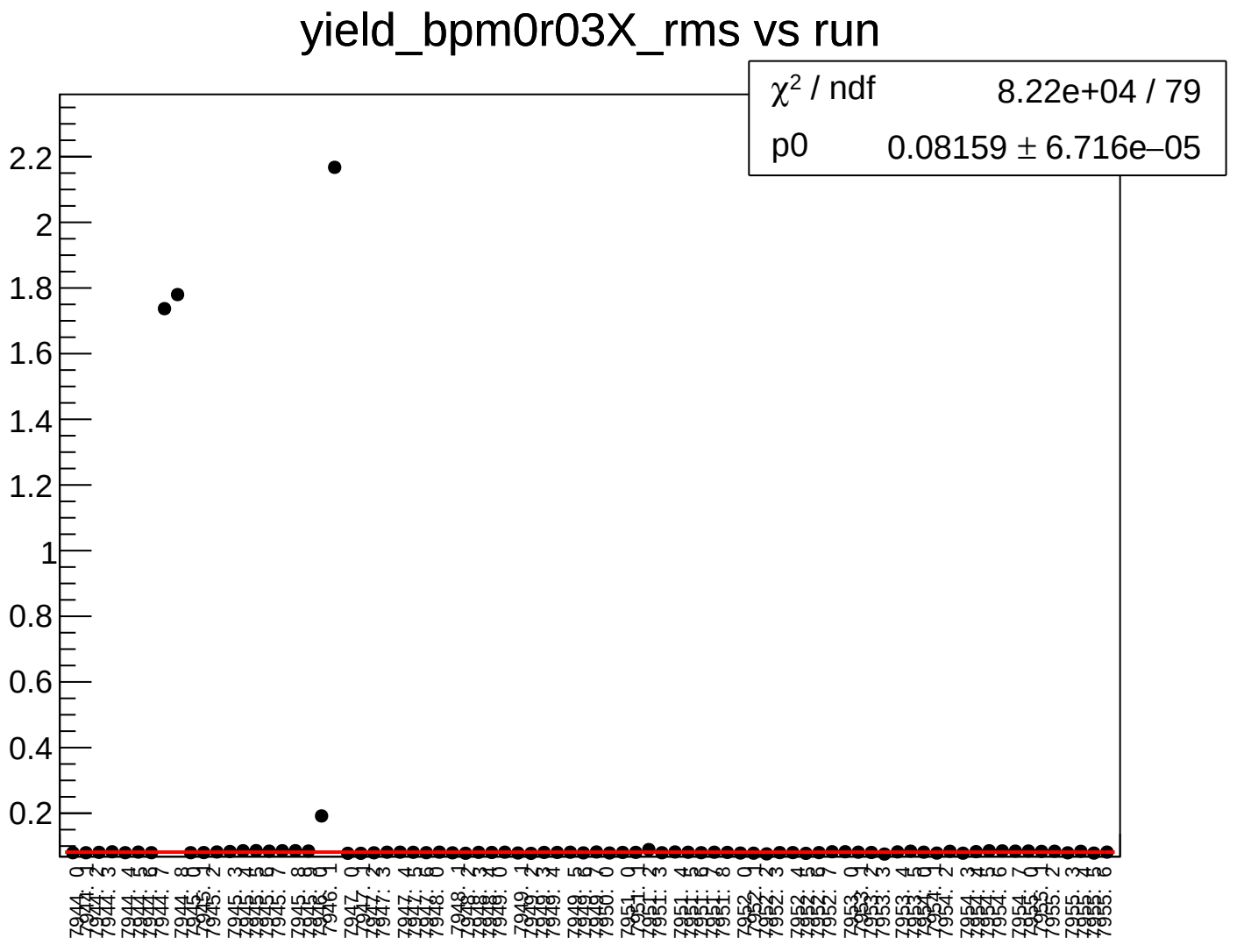

yield_bpm0l10Y_mean vs run
χ² / ndf 1.563e+07 / 79
p0 −0.3184 ± 4.195e−06
pull
Entries 80
Mean −511.9
Std Dev 542.3

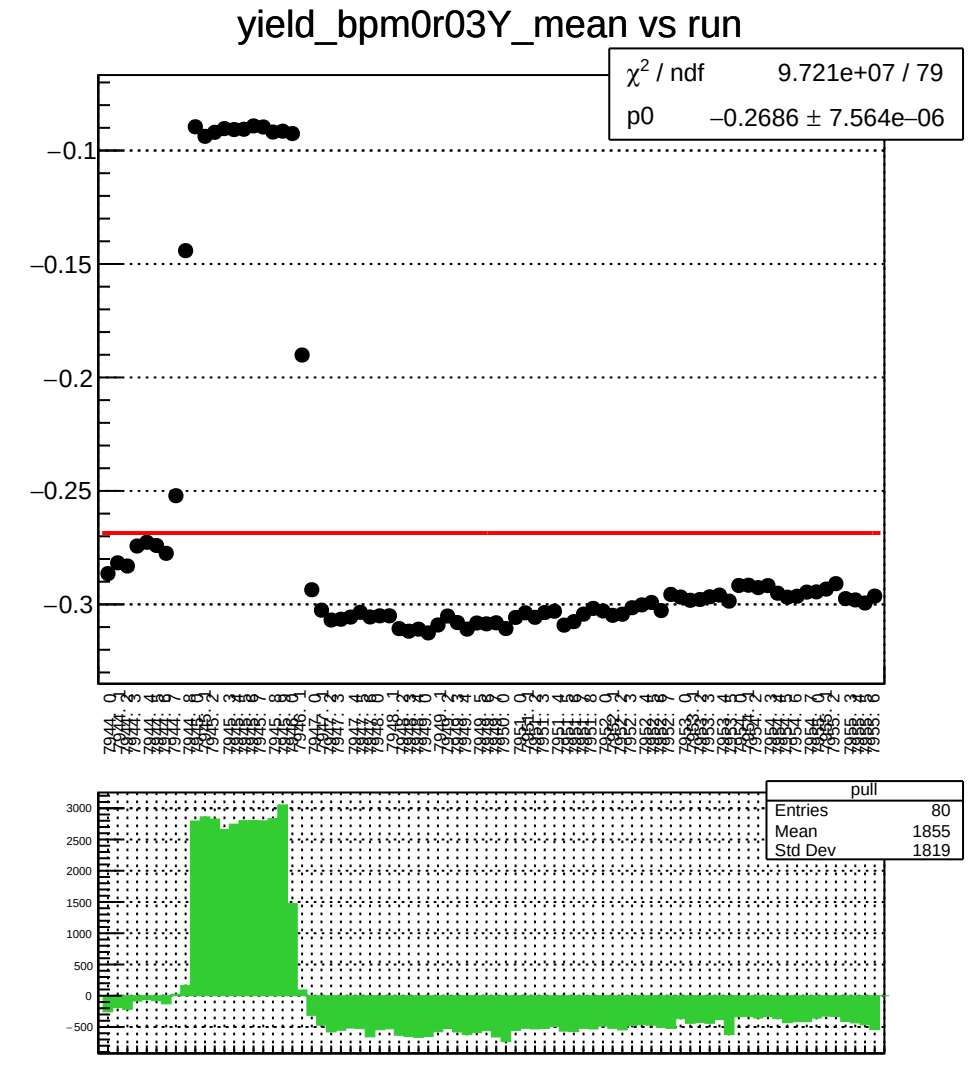

pull1D
Entries 80
Mean 7.044
Std Dev 0

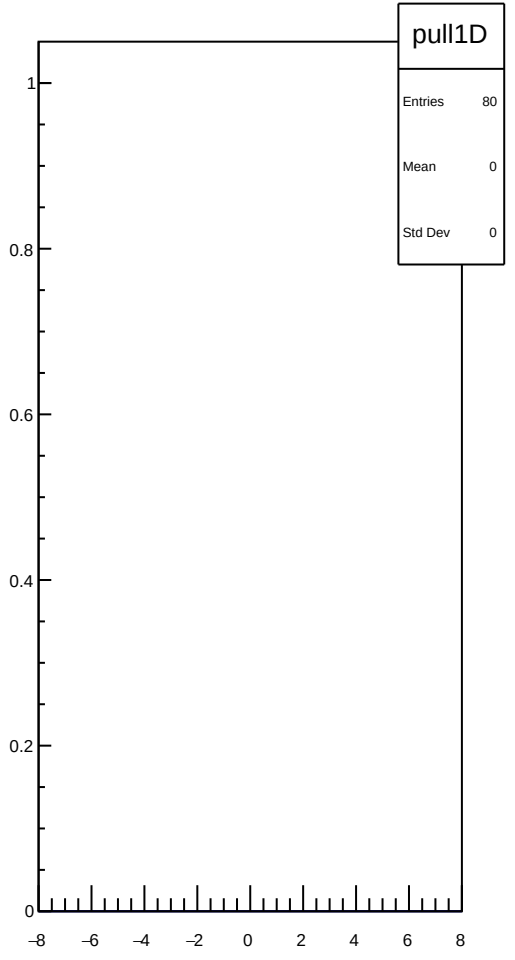

yield_bpm0l10Y_rms vs run
χ^2 / ndf 5.53e+04 / 79
p0 0.003636 ± 2.966e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

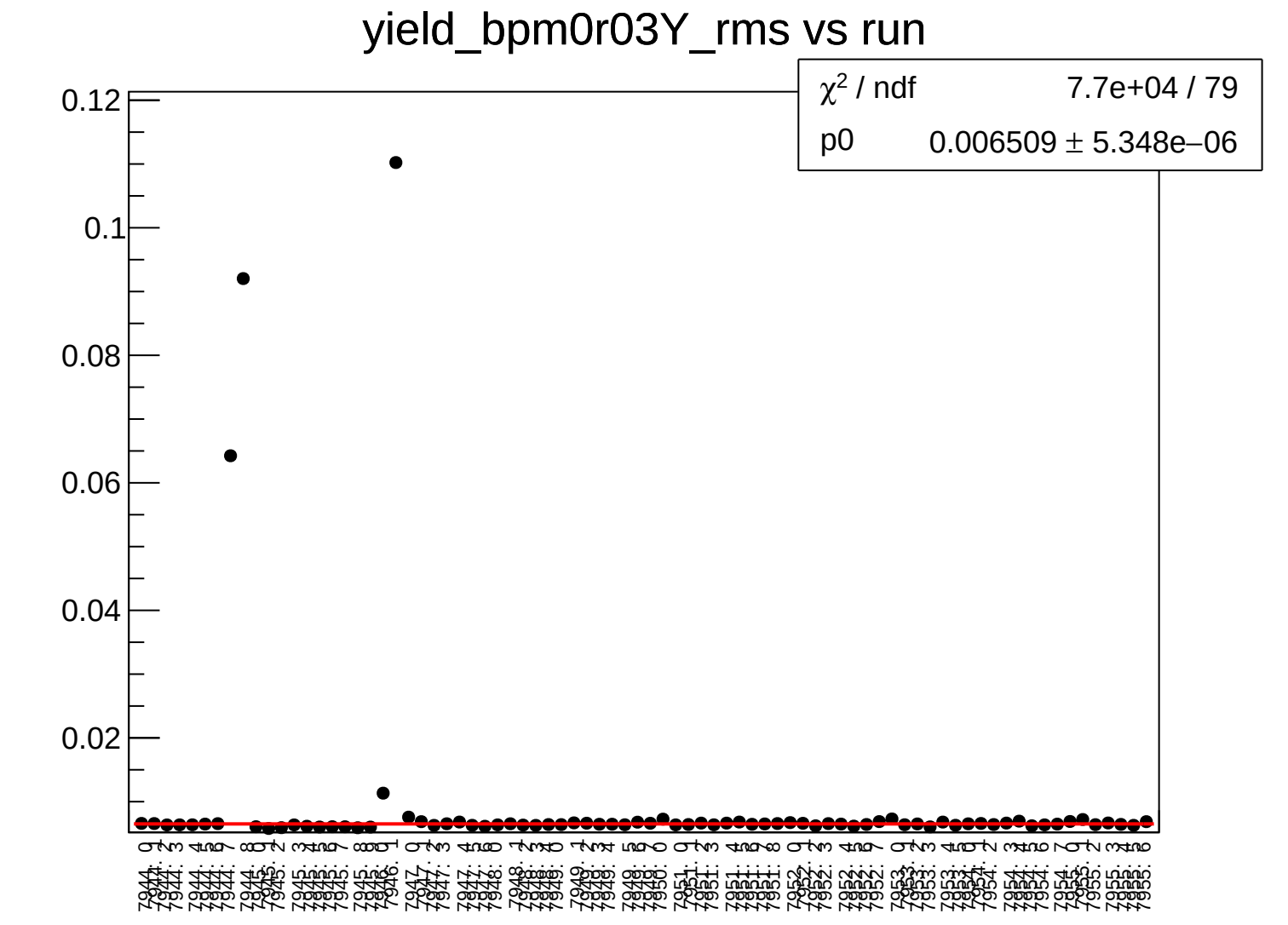

yield_bpm0r03X_mean vs run
χ² / ndf 2.828e+08 / 79
p0 −3.182 ± 9.498e−05
pull
Entries 80
Mean −307.8
Std Dev 344.1

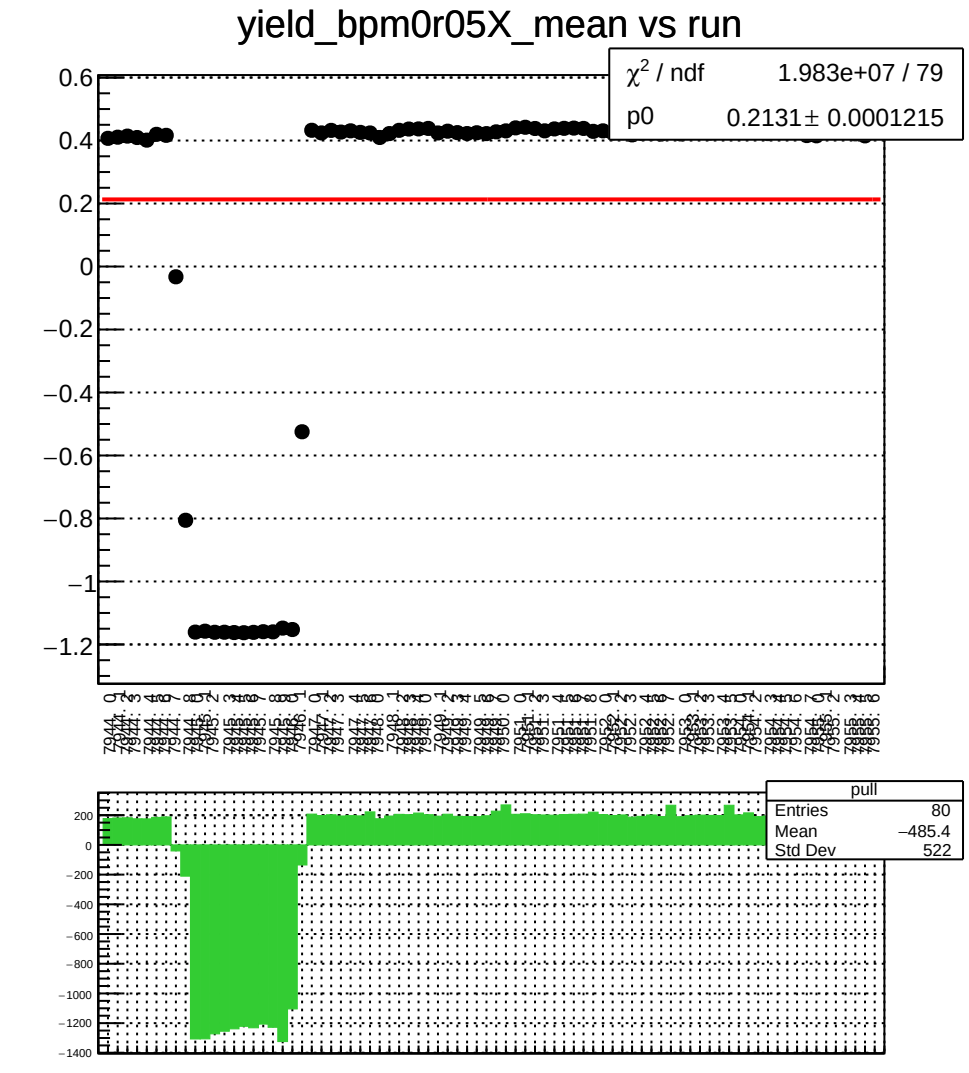

pull1D
Entries 80
Mean 0
Std Dev 0

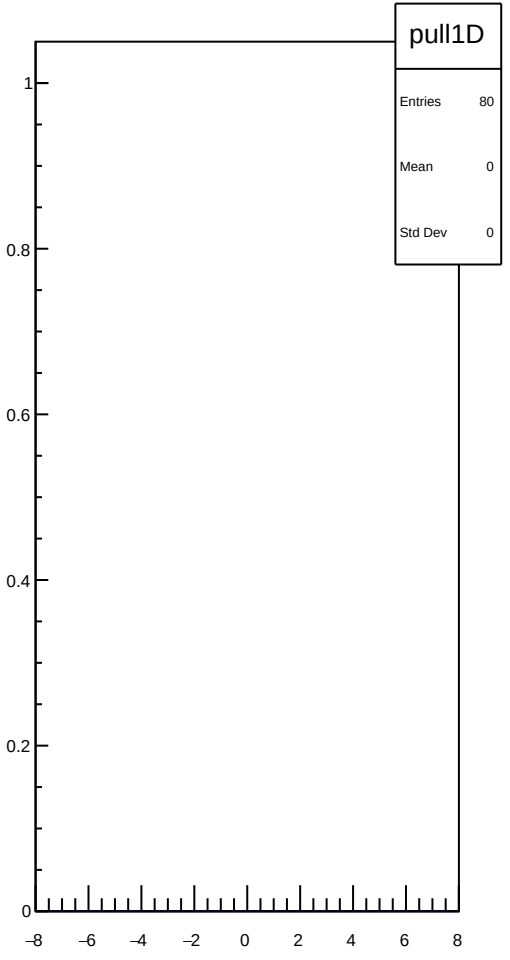

yield_bpm0r03X_rms vs run
χ² / ndf 8.22e+04 / 79
p0 0.08159 ± 6.716e−05
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

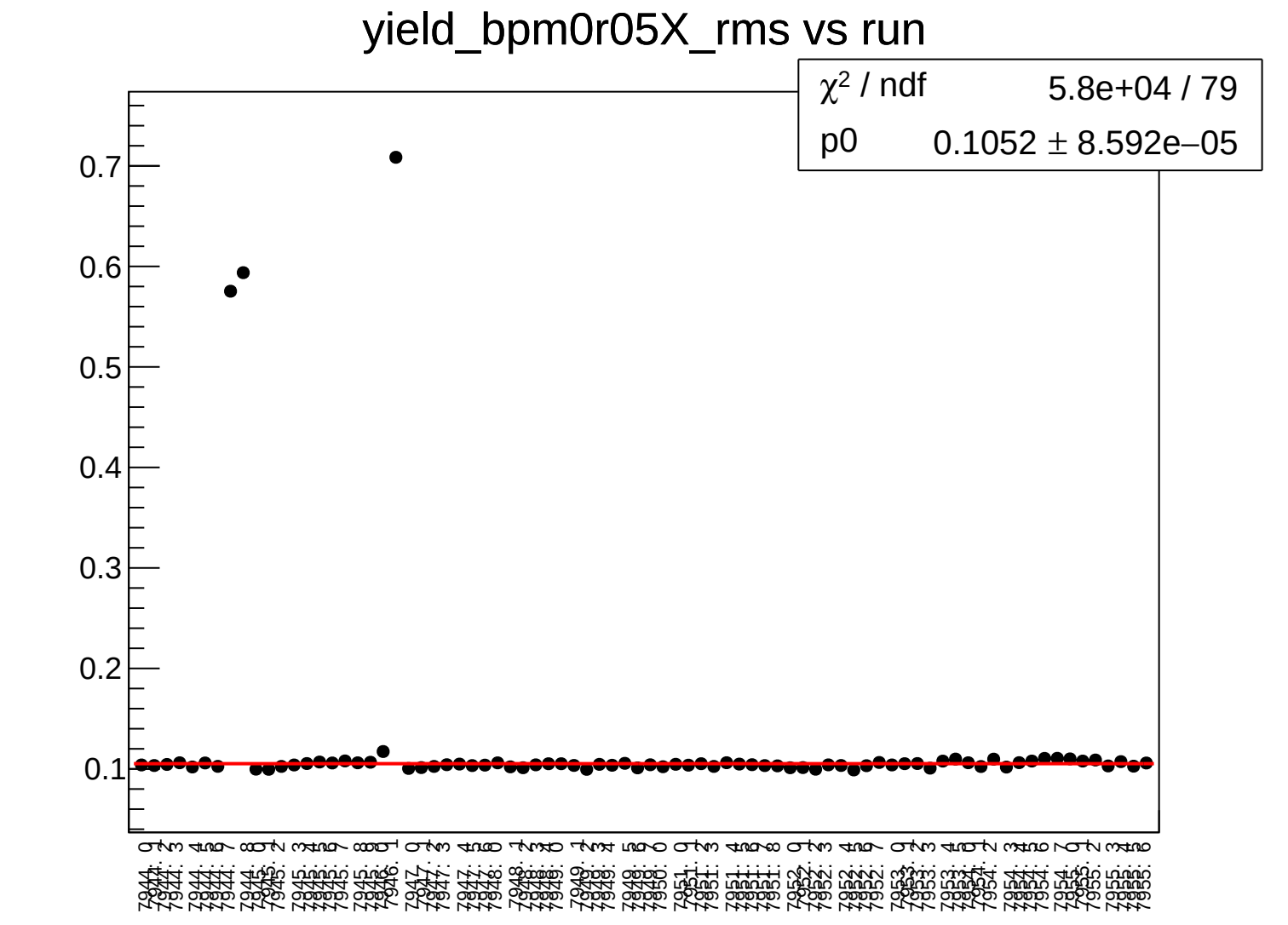

yield_bpm0r03Y_mean vs run
χ² / ndf 9.721e+07 / 79
p0 −0.2686 ± 7.564e−06
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 80
Mean 1855
Std Dev 1819
3000
2500
2000
1500
1000
500
0
−500

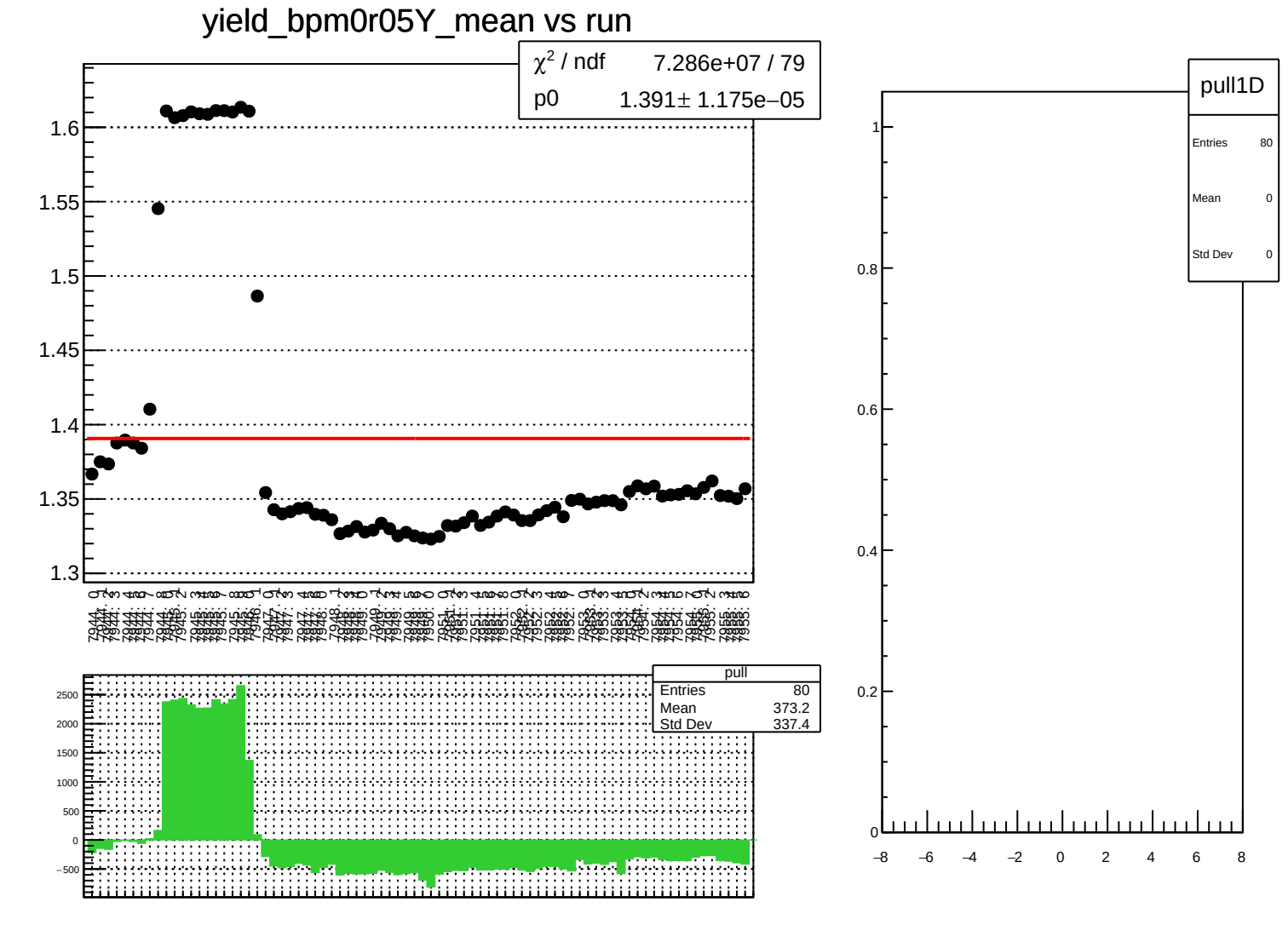

pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

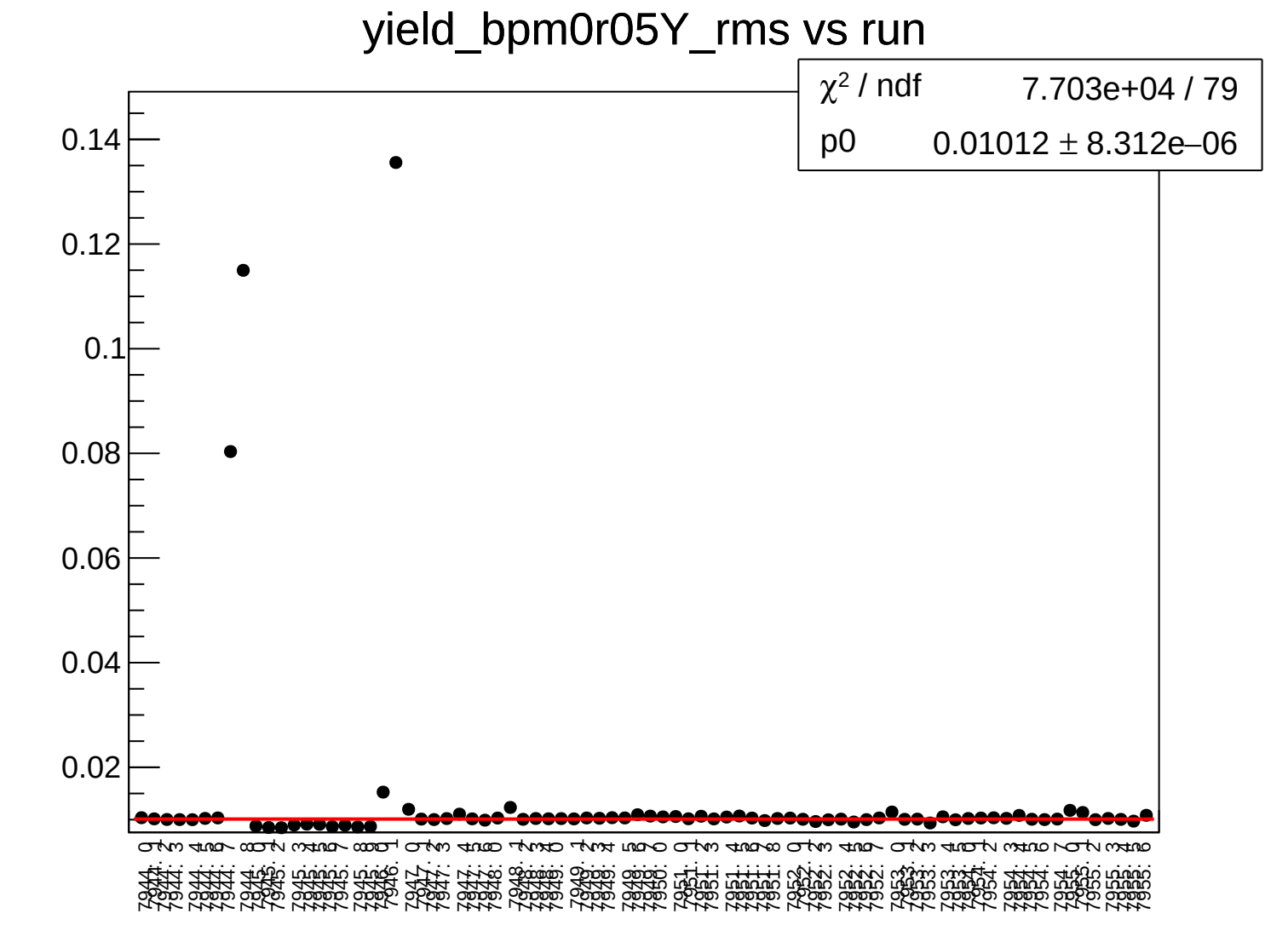

yield_bpm0r03Y_rms vs run
χ² / ndf 7.7e+04 / 79
p0 0.006509 ± 5.348e−06
0.12
0.1
0.08
0.06
0.04
0.02

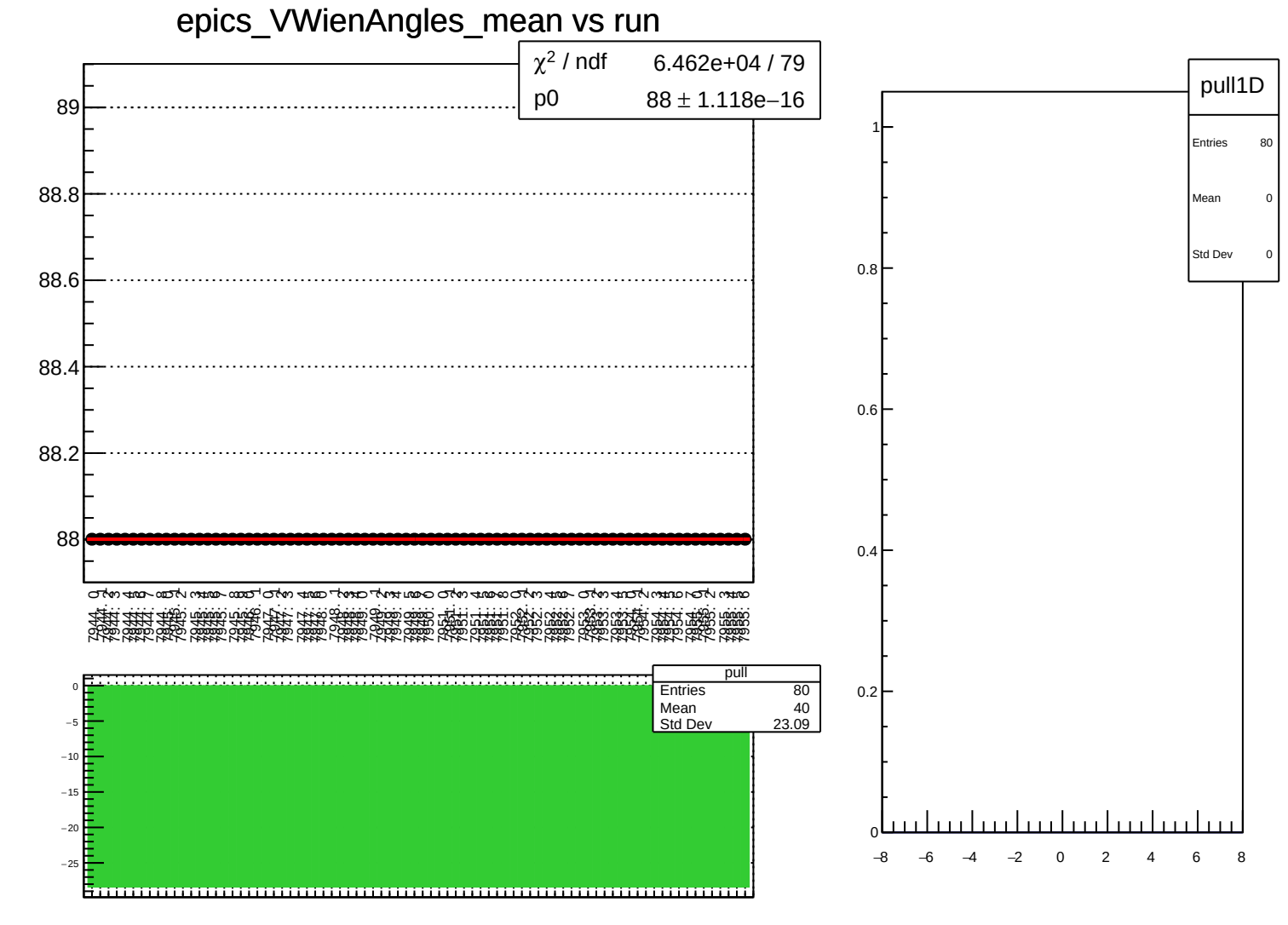

yield_bpm0r05X_mean vs run
χ² / ndf 1.983e+07 / 79
p0 0.2131 ± 0.0001215
pull
Entries 80
Mean −485.4
Std Dev 522

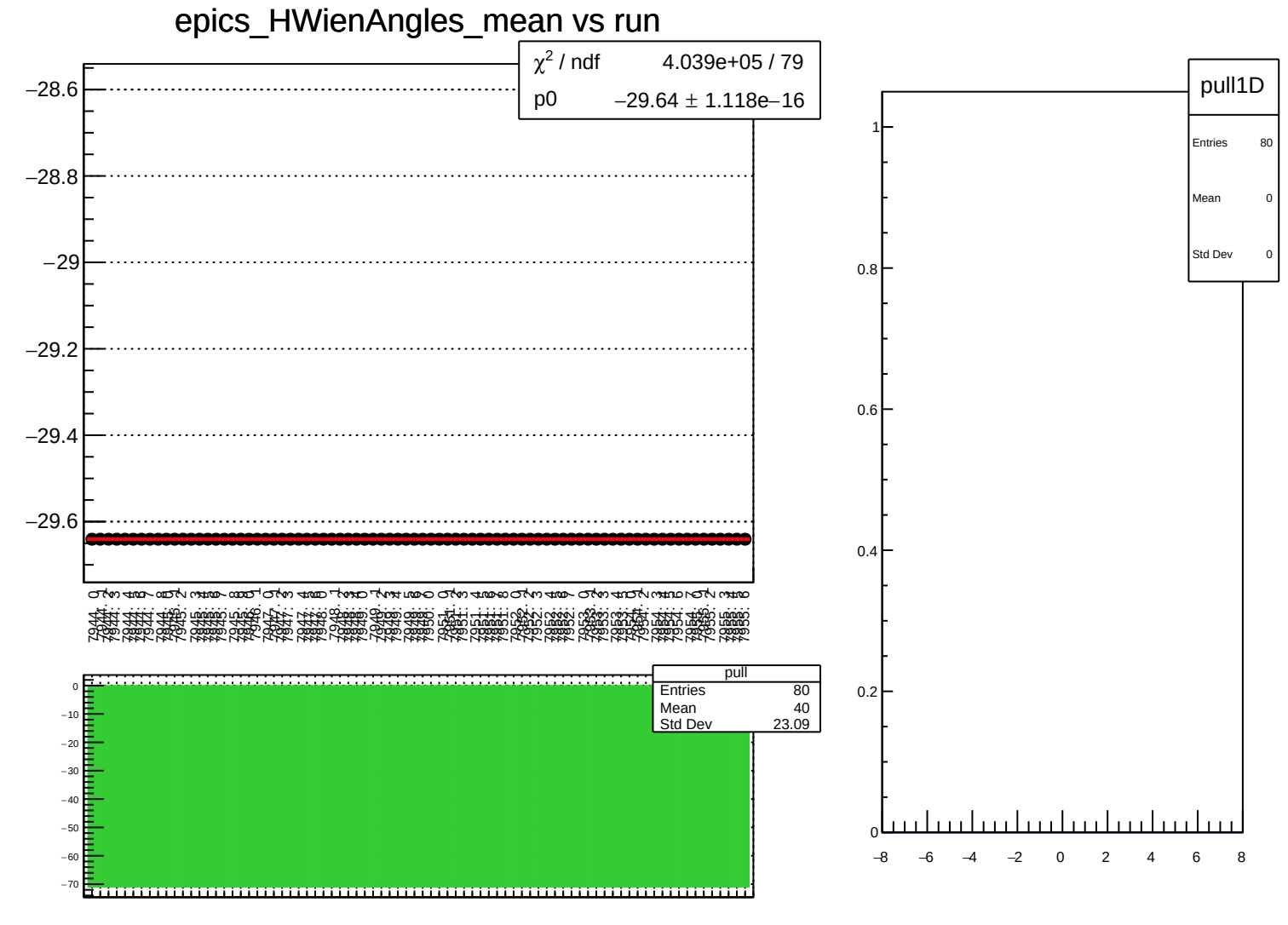

pull1D
Entries 80
Mean 0
Std Dev 0

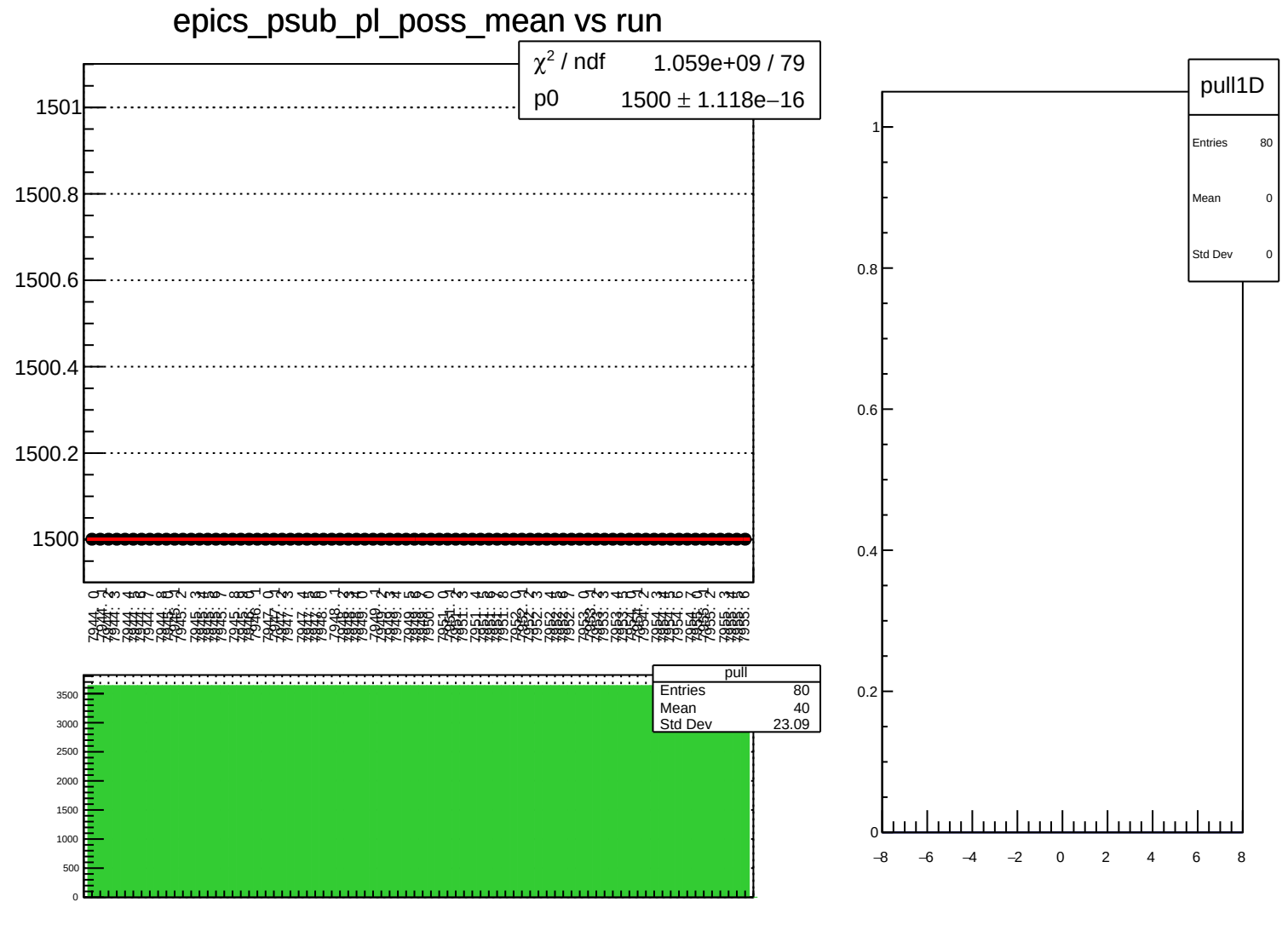

yield_bpm0r05X_rms vs run
χ² / ndf 5.8e+04 / 79
p0 0.1052 ± 8.592e−05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

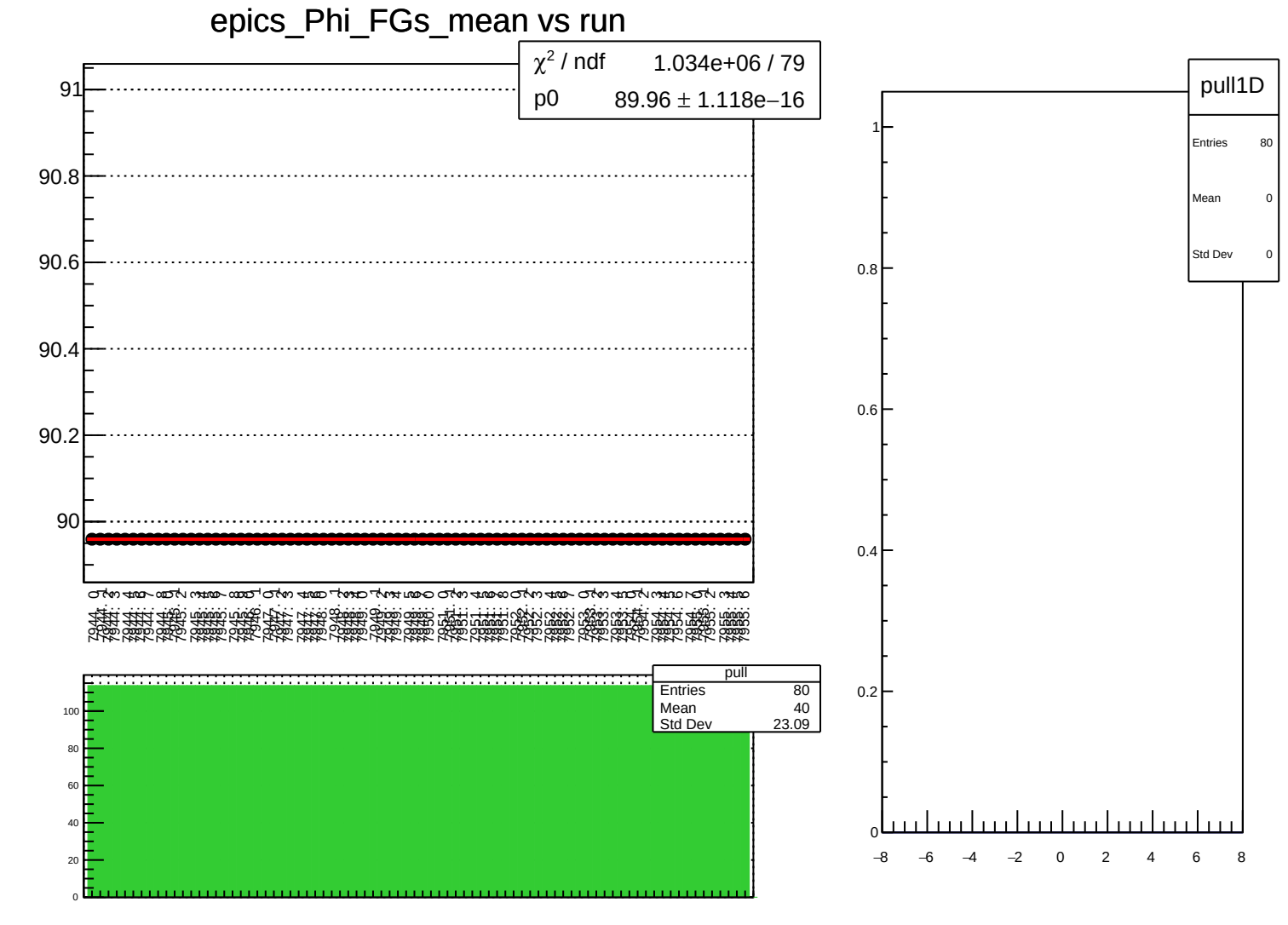

yield_bpm0r05Y_mean vs run
χ² / ndf 7.286e+07 / 79
p0 1.391± 1.175e−05
pull
Entries 80
Mean 373.2
Std Dev 337.4
pull1D
Entries 80
Mean 0
Std Dev 0

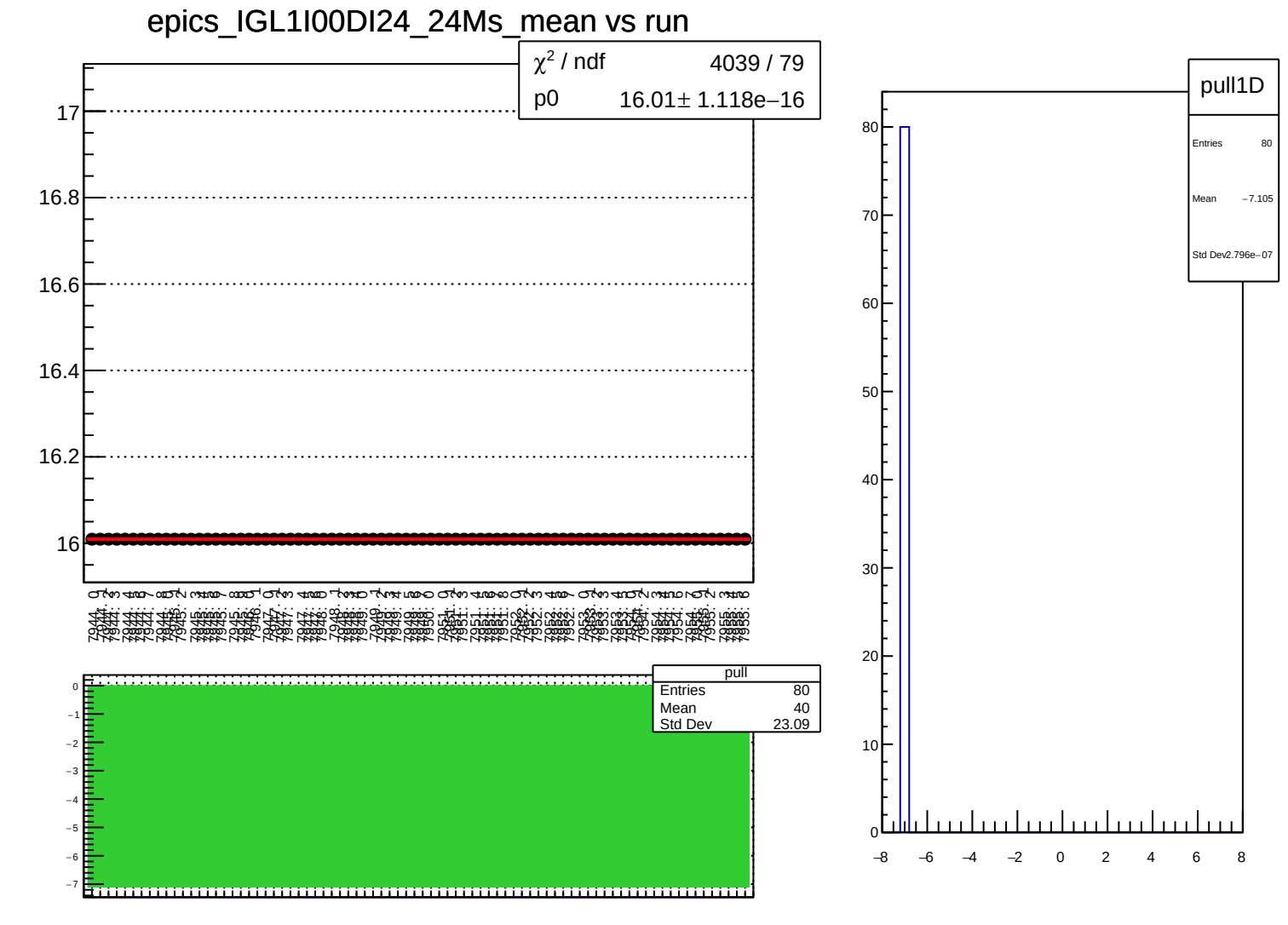

yield_bpm0r05Y_rms vs run
χ² / ndf 7.703e+04 / 79
p0 0.01012 ± 8.312e–06
0.14
0.12
0.1
0.08
0.06
0.04
0.02

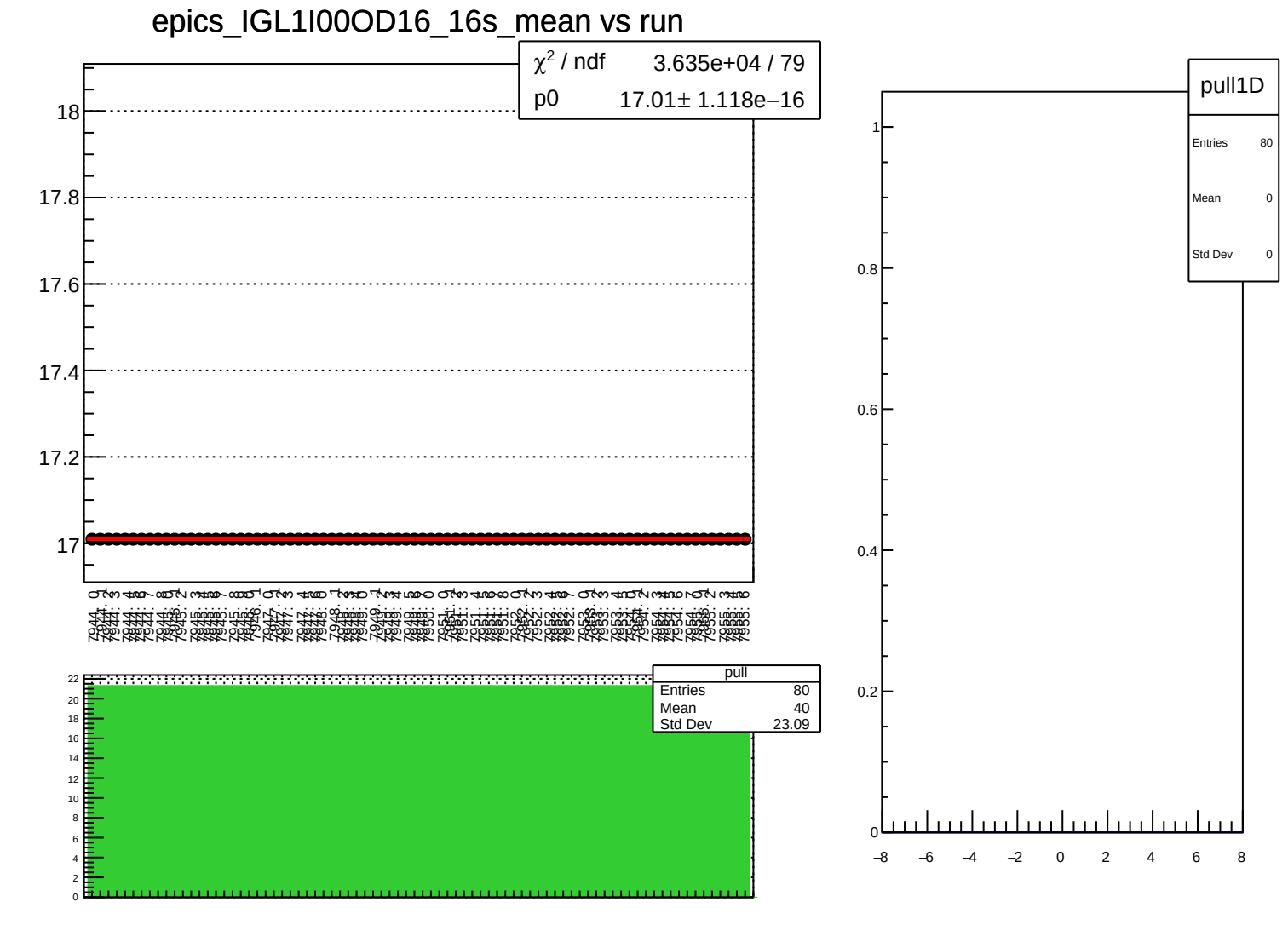

epics_VWienAngles_mean vs run
χ² / ndf 6.462e+04 / 79
p0 88 ± 1.118e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 80
Mean 40
Std Dev 23.09
0
−5
−10
−15
−20
−25
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

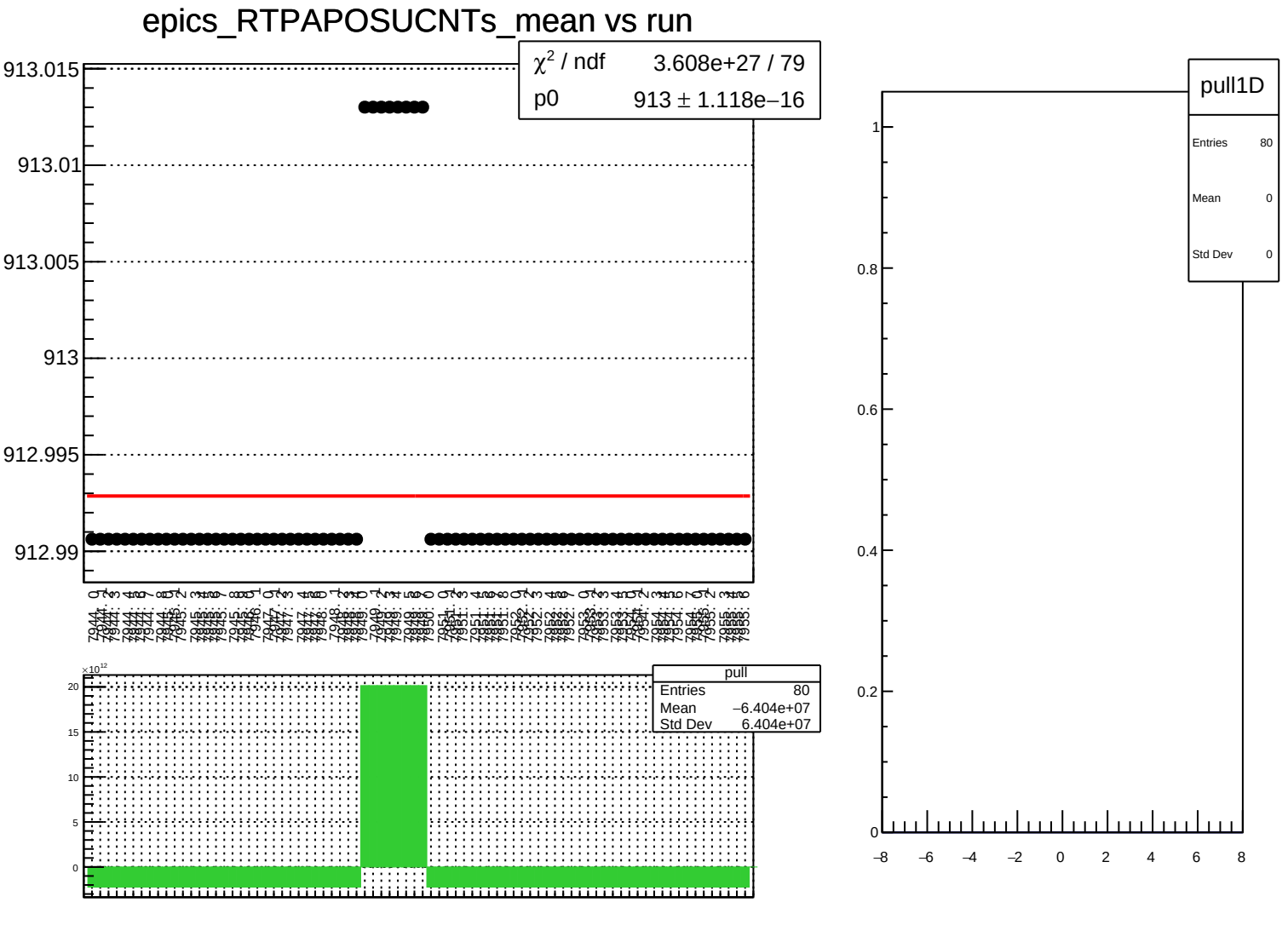

epics_HWienAngles_mean vs run
χ² / ndf 4.039e+05 / 79
p0 −29.64 ± 1.118e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 80
Mean 40
Std Dev 23.09
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

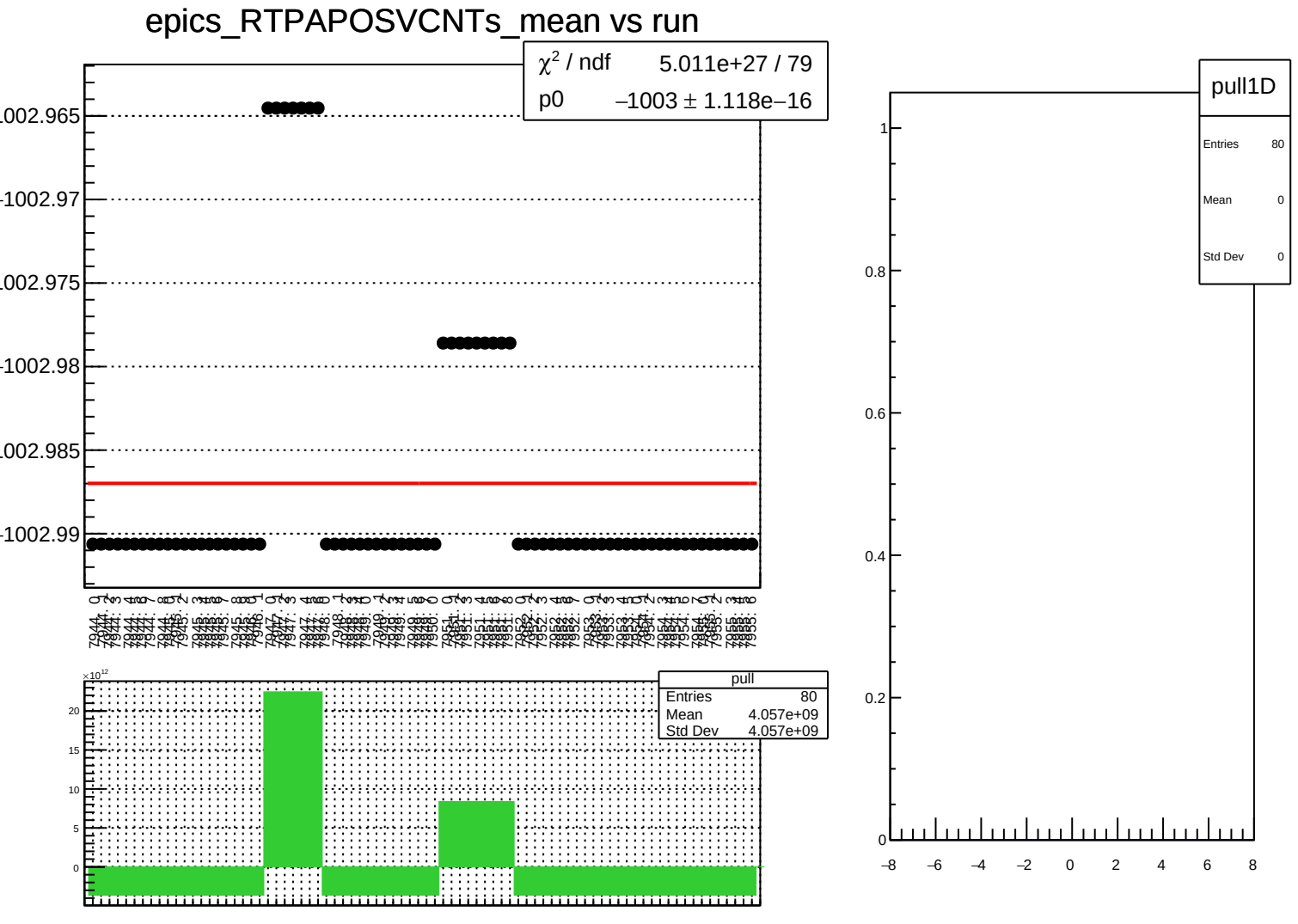

epics_psub_pl_poss_mean vs run
χ² / ndf 1.059e+09 / 79
p0 1500 ± 1.118e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 80
Mean 40
Std Dev 23.09
3500
3000
2500
2000
1500
1000
500
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 1.034e+06 / 79
p0 89.96 ± 1.118e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 80
Mean 40
Std Dev 23.09
100
80
60
40
20
0
pull1D
Entries 80
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 4039 / 79
p0 16.01± 1.118e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 80
Mean 40
Std Dev 23.09
0
−1
−2
−3
−4
−5
−6
−7
pull1D
Entries 80
Mean −7.105
Std Dev2.796e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 3.635e+04 / 79
p0 17.01± 1.118e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 80
Mean 40
Std Dev 23.09
22
20
18
16
14
12
10
8
6
4
2
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 3.608e+27 / 79
p0 913 ± 1.118e−16
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 80
Mean −6.404e+07
Std Dev 6.404e+07
×10¹²
20
15
10
5
0
pull1D
Entries 80
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 5.011e+27 / 79
p0 −1003 ± 1.118e−16
−1002.965
−1002.97
−1002.975
−1002.98
−1002.985
−1002.99
pull
Entries 80
Mean 4.057e+09
Std Dev 4.057e+09
×10¹²
20
15
10
5
0
pull1D
Entries 80
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8