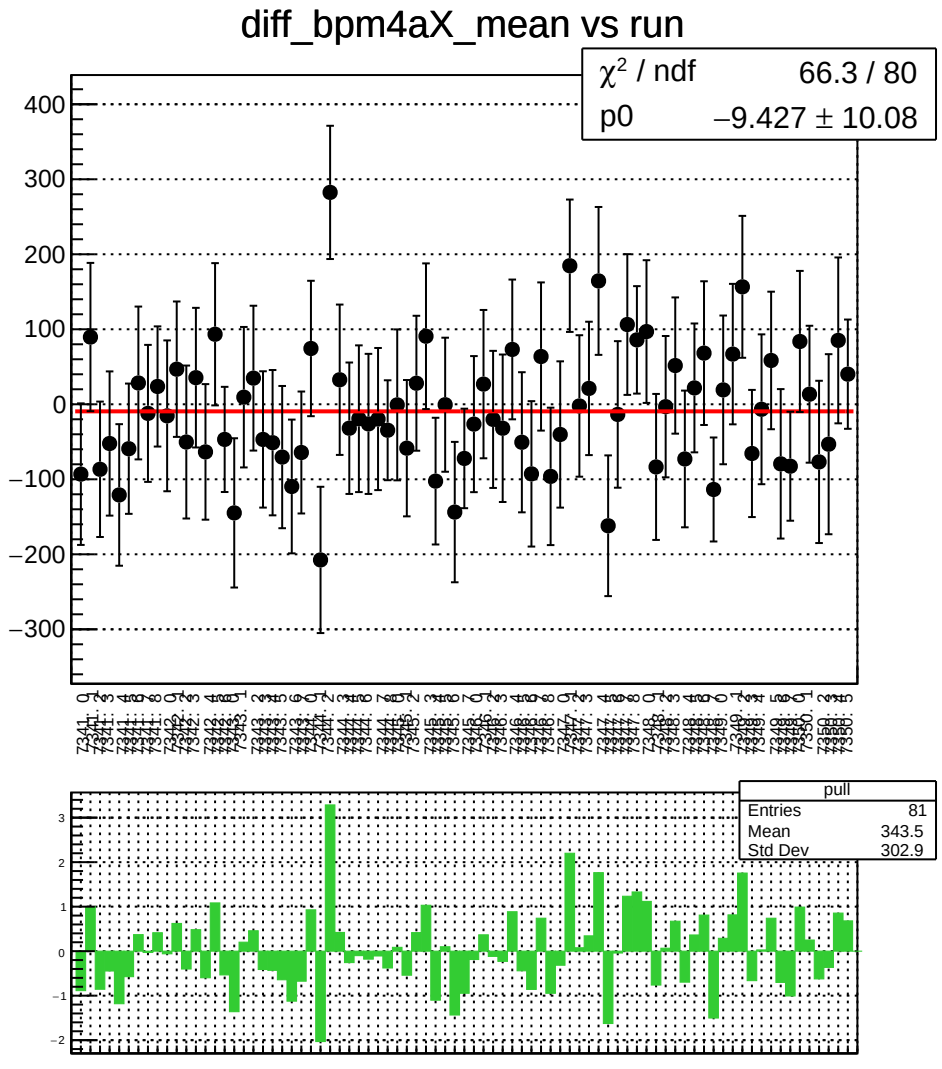
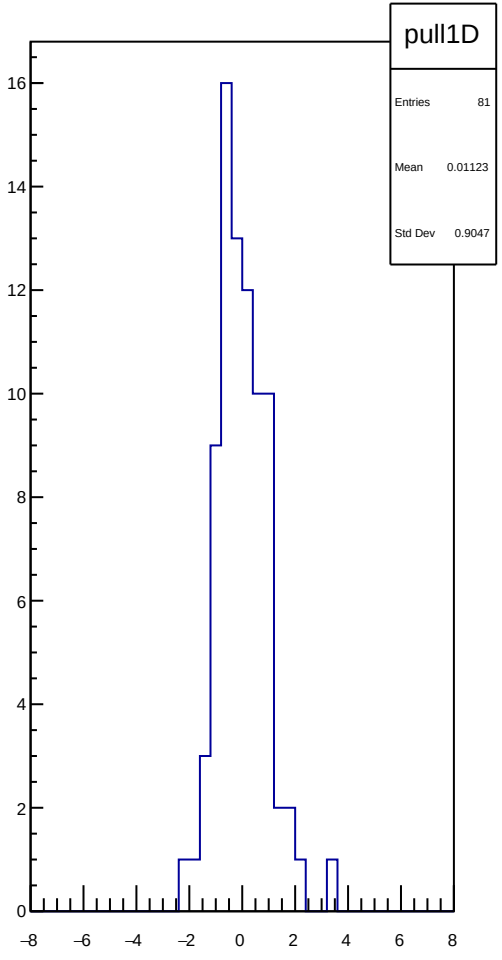
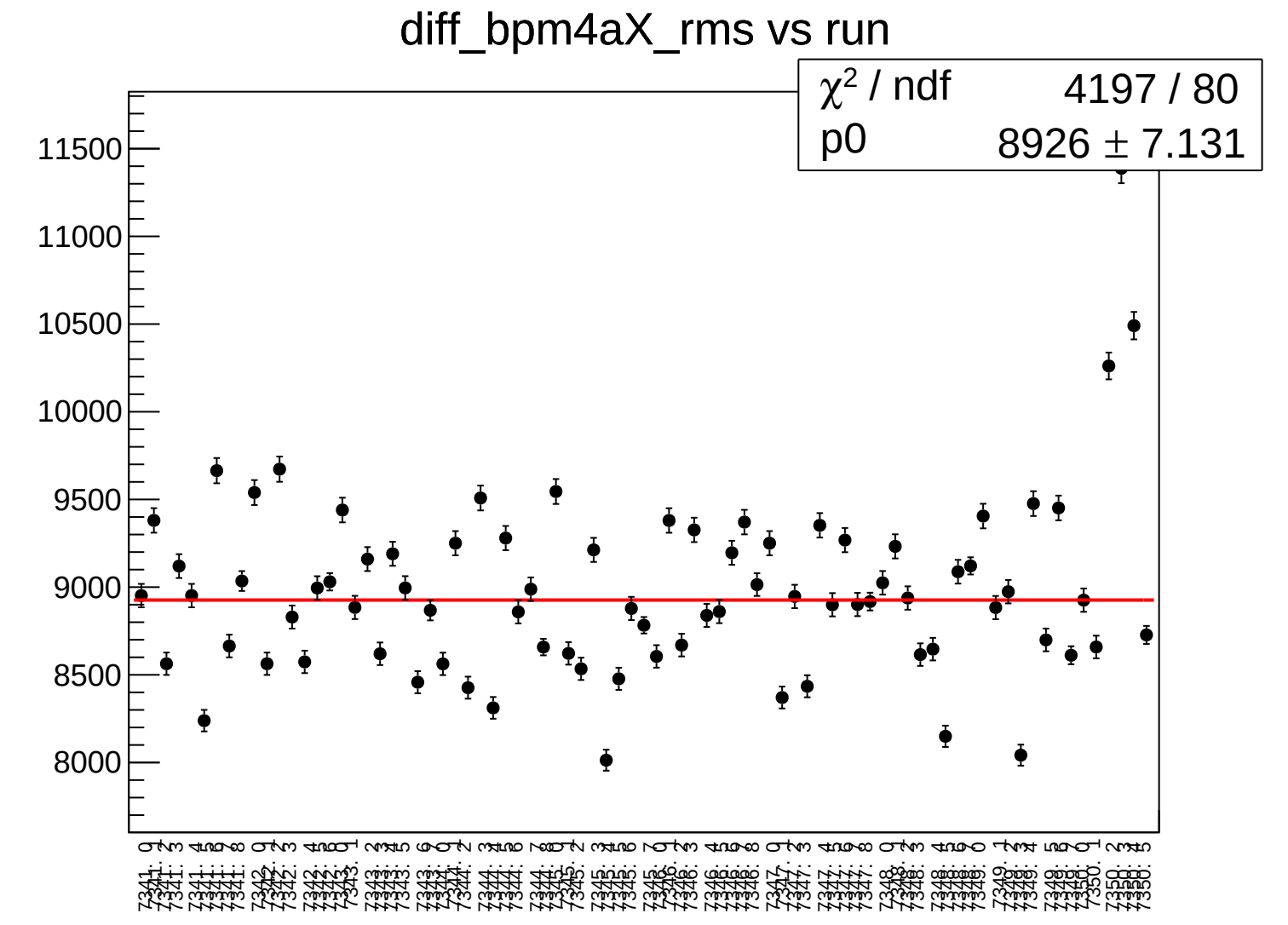
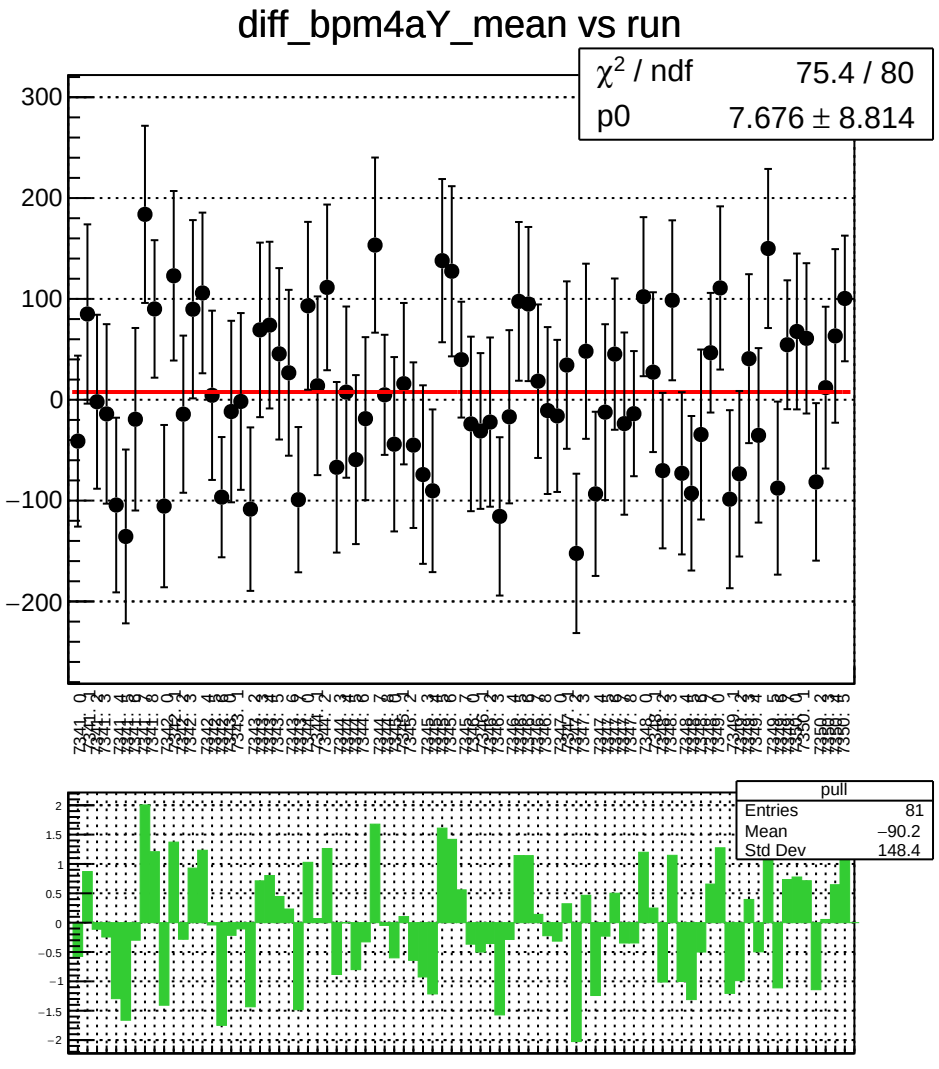
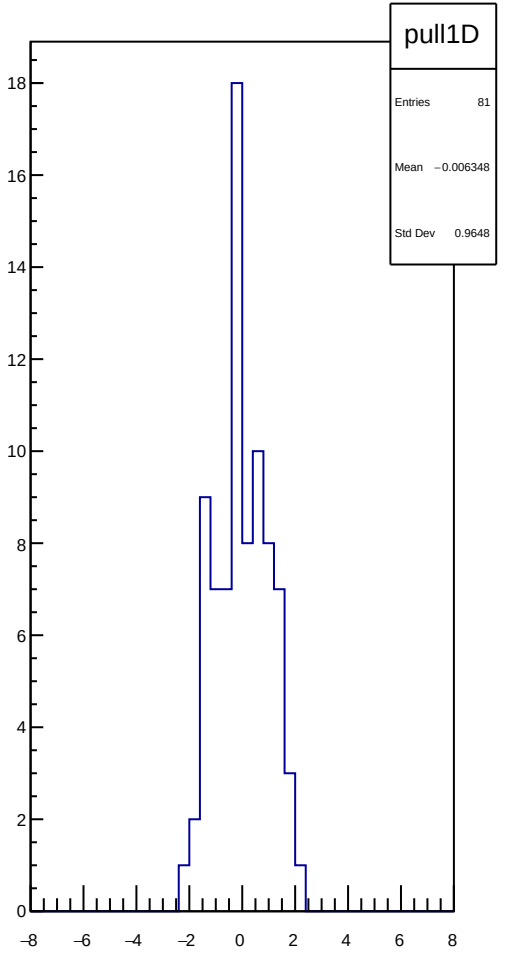
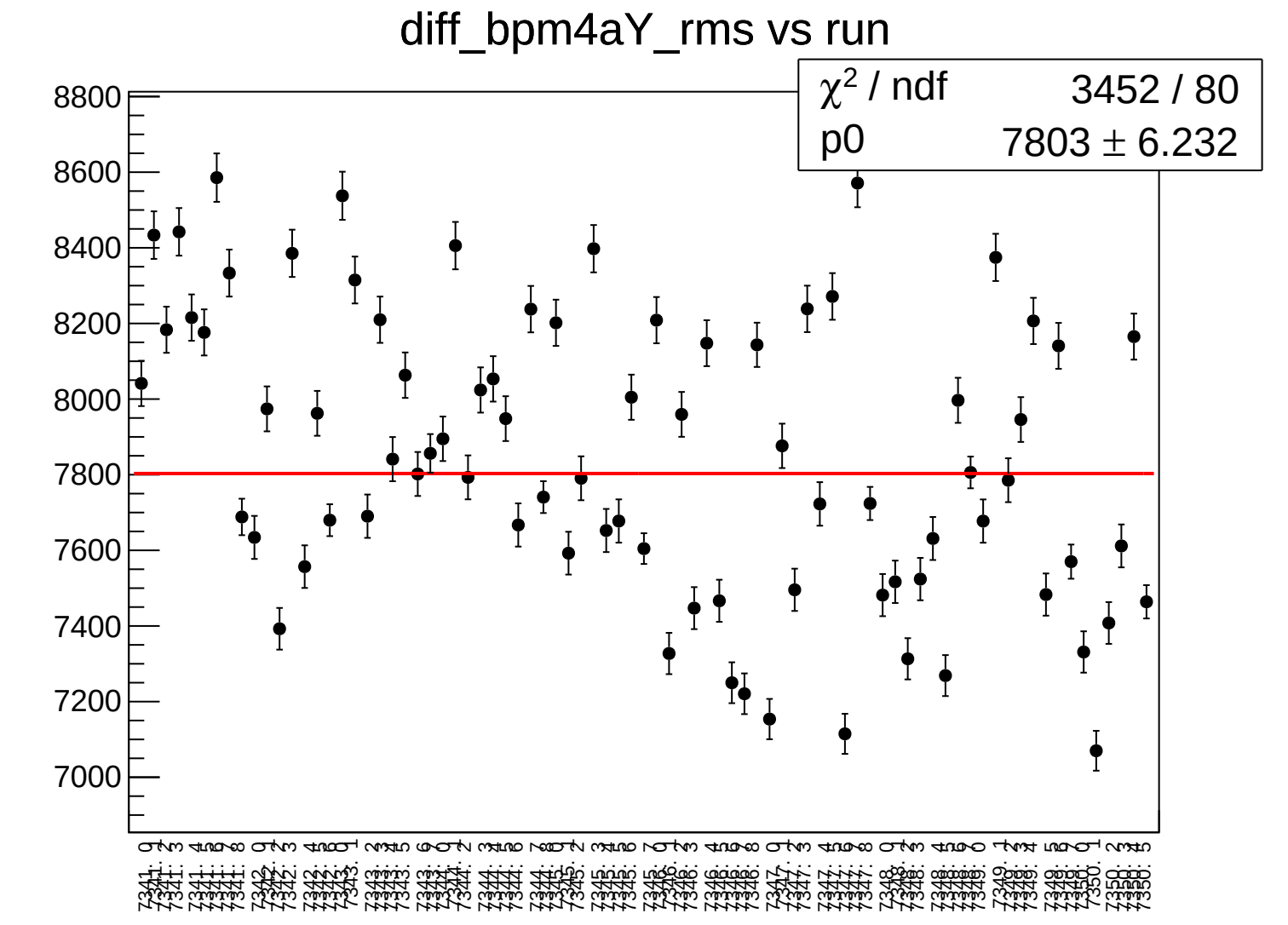

diff_bpm4aX_mean vs run
χ² / ndf 66.3 / 80
p0 −9.427 ± 10.08
pull
Entries 81
Mean 343.5
Std Dev 302.9

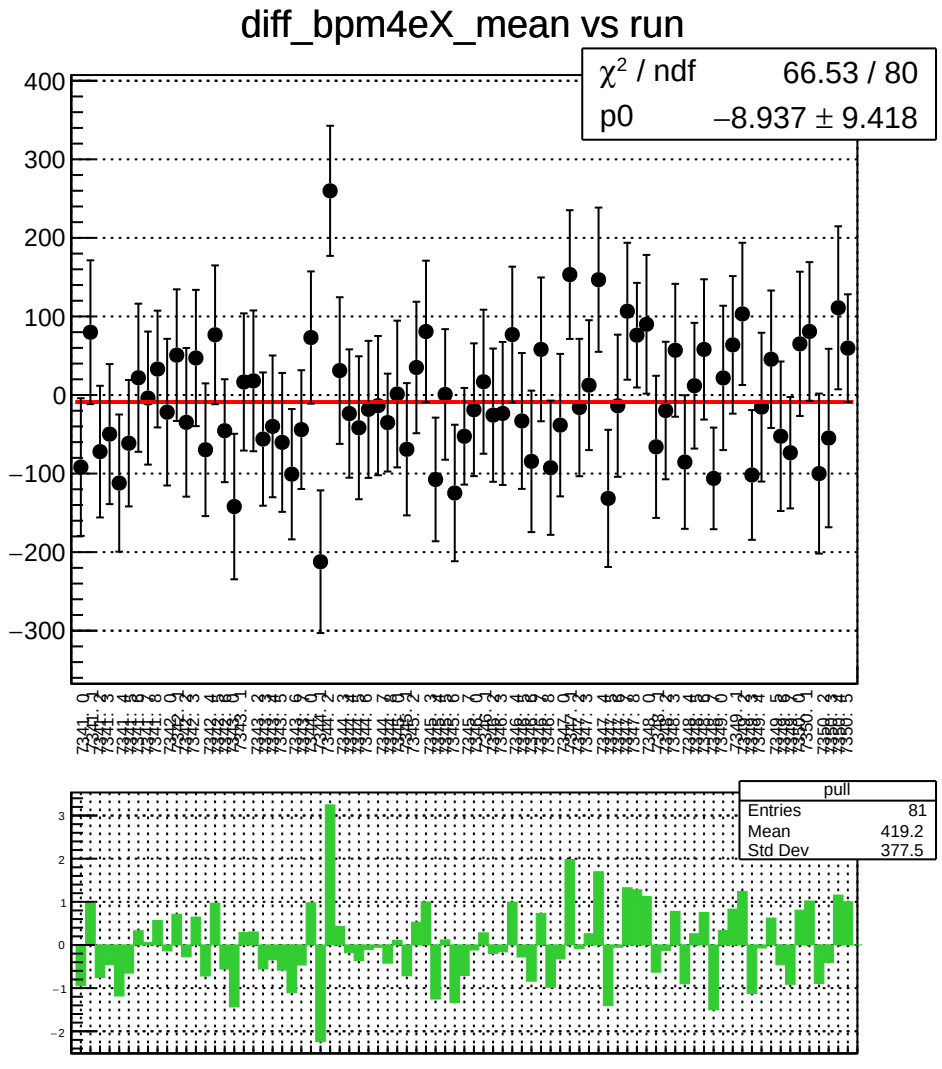

pull1D
Entries 81
Mean 0.01123
Std Dev 0.9047

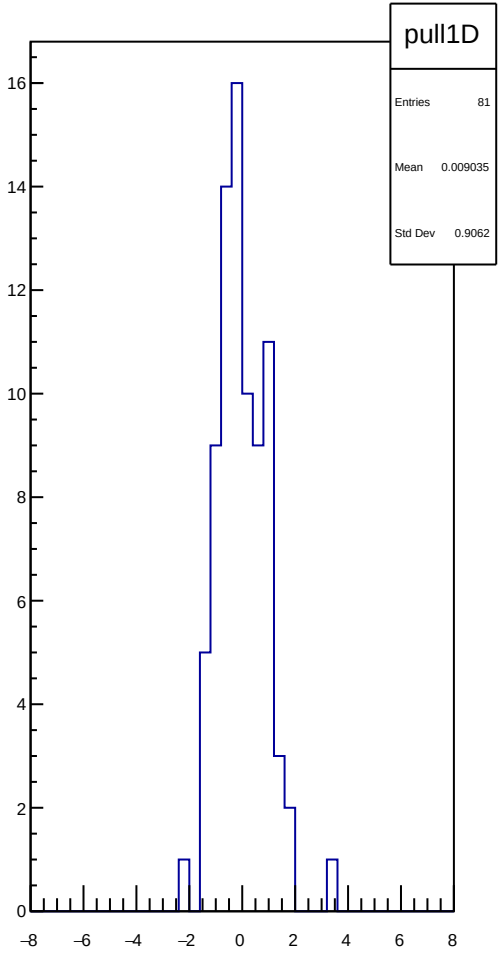

diff_bpm4aX_rms vs run
χ² / ndf 4197 / 80
p0 8926 ± 7.131
11500
11000
10500
10000
9500
9000
8500
8000

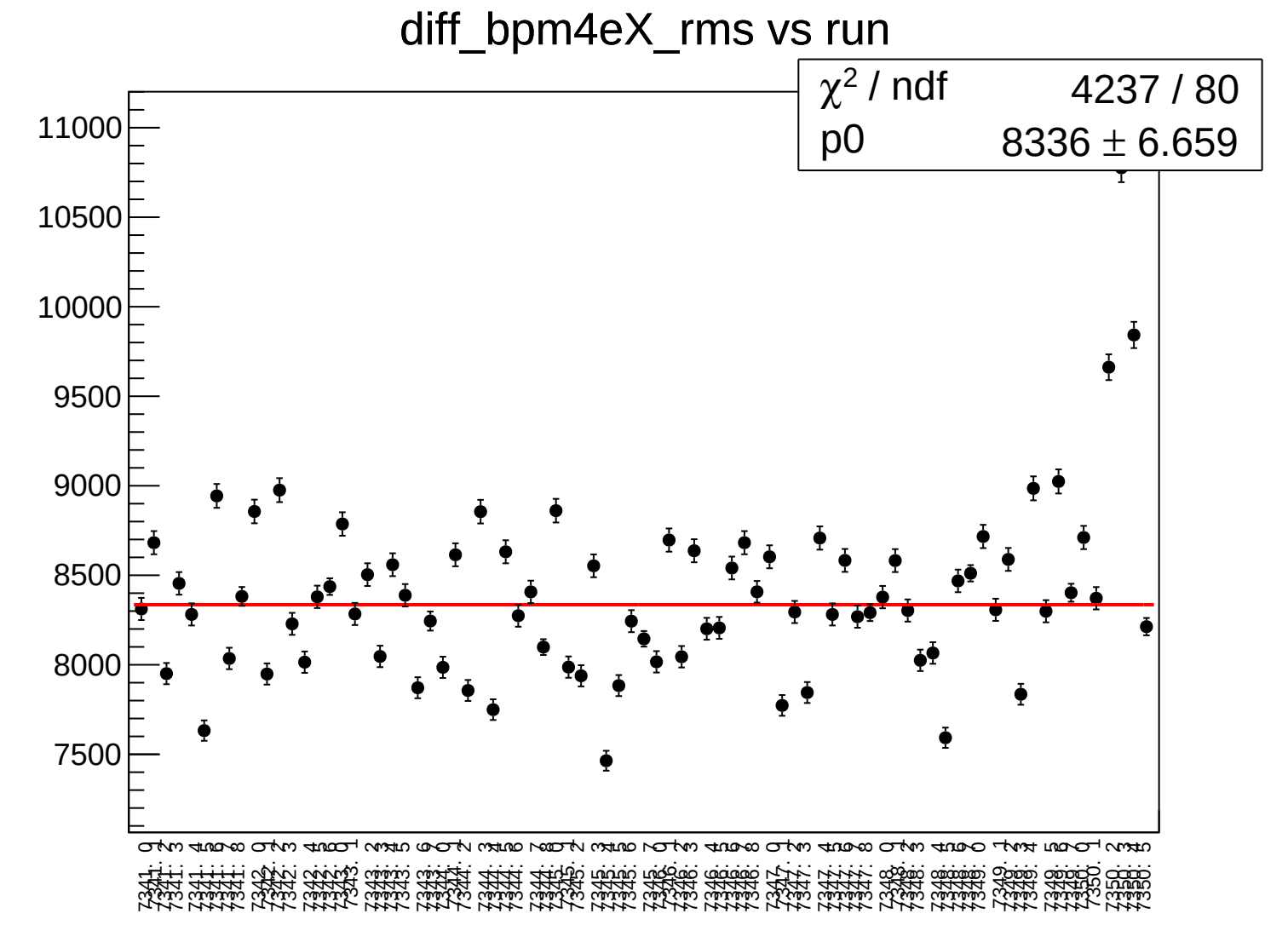

diff_bpm4aY_mean vs run
χ² / ndf 75.4 / 80
p0 7.676 ± 8.814
pull
Entries 81
Mean −90.2
Std Dev 148.4

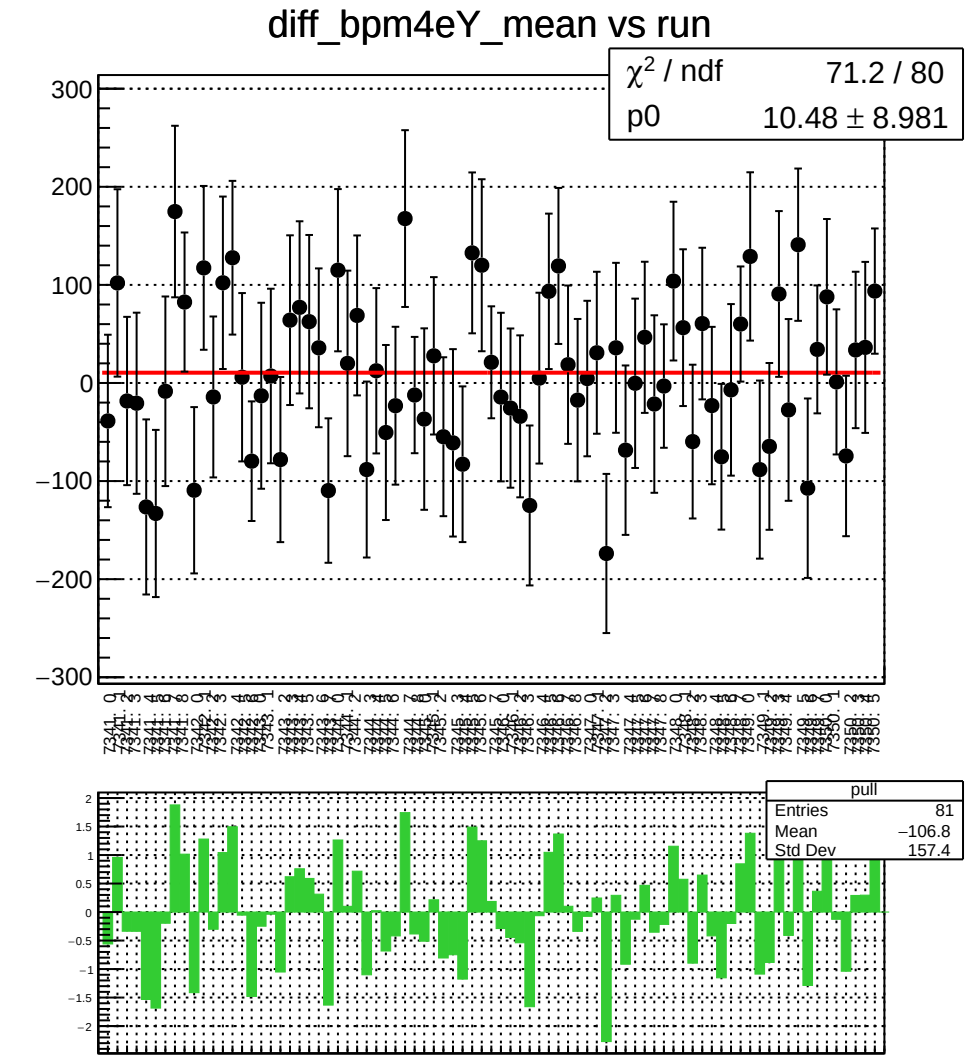

pull1D
Entries 81
Mean −0.006348
Std Dev 0.9648

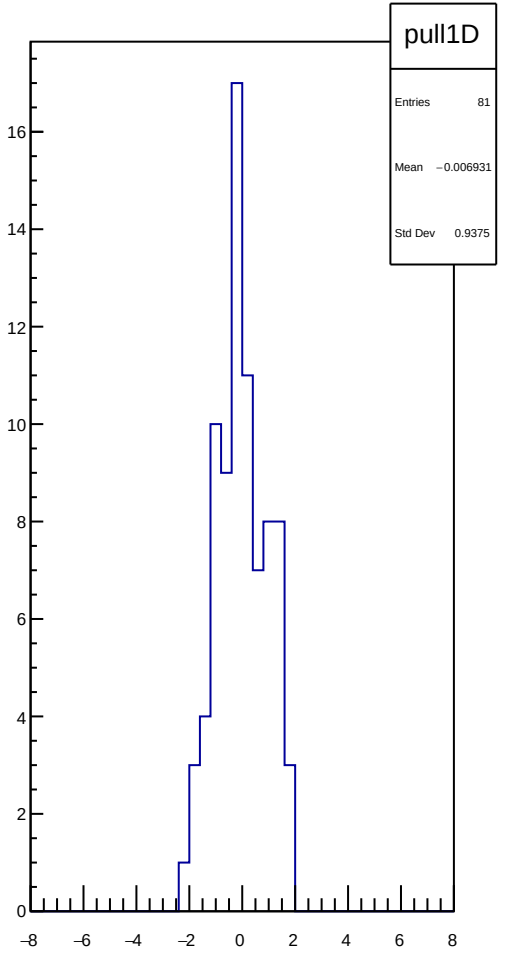

diff_bpm4aY_rms vs run
χ² / ndf 3452 / 80
p0 7803 ± 6.232
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

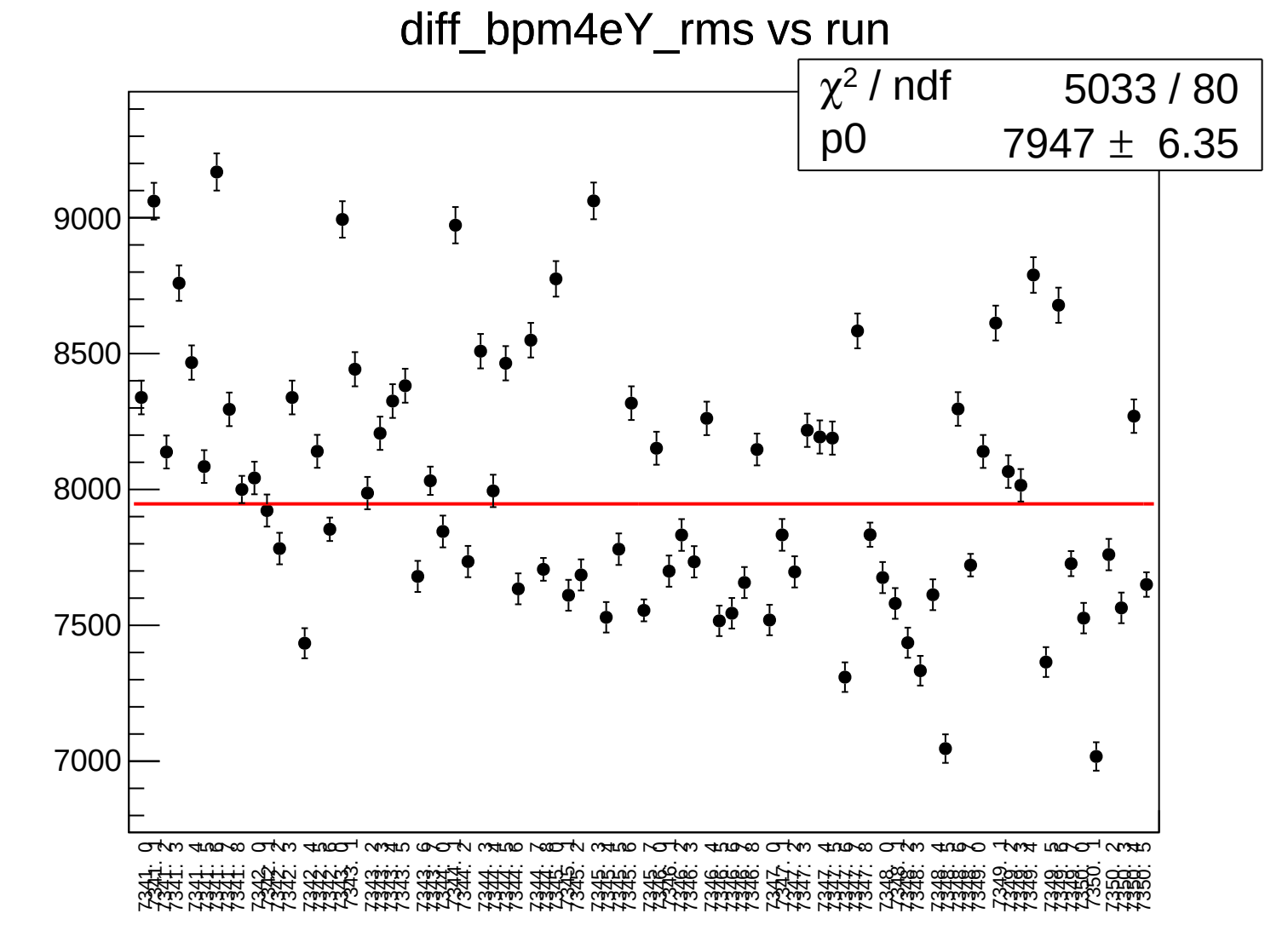

diff_bpm4eX_mean vs run
χ² / ndf 66.53 / 80
p0 −8.937 ± 9.418
pull
Entries 81
Mean 419.2
Std Dev 377.5

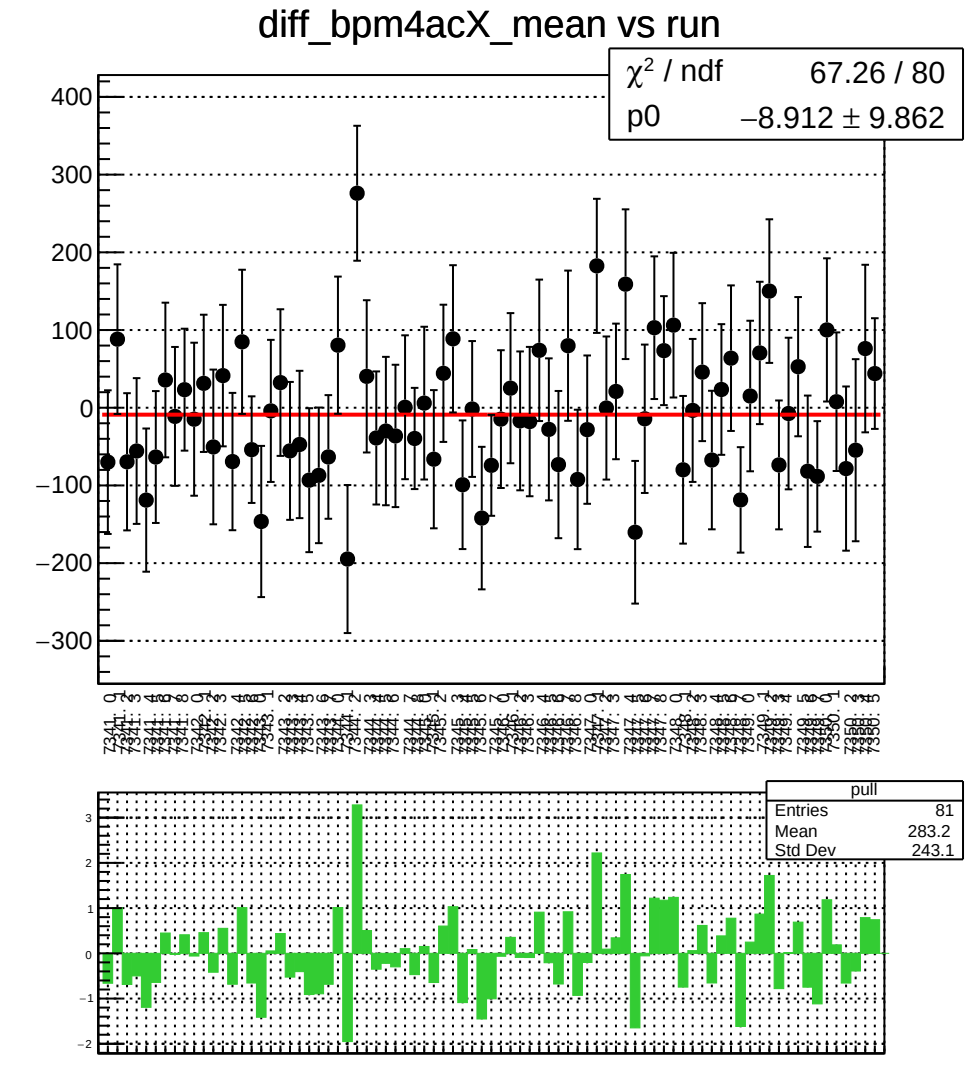

pull1D
Entries 81
Mean 0.009035
Std Dev 0.9062

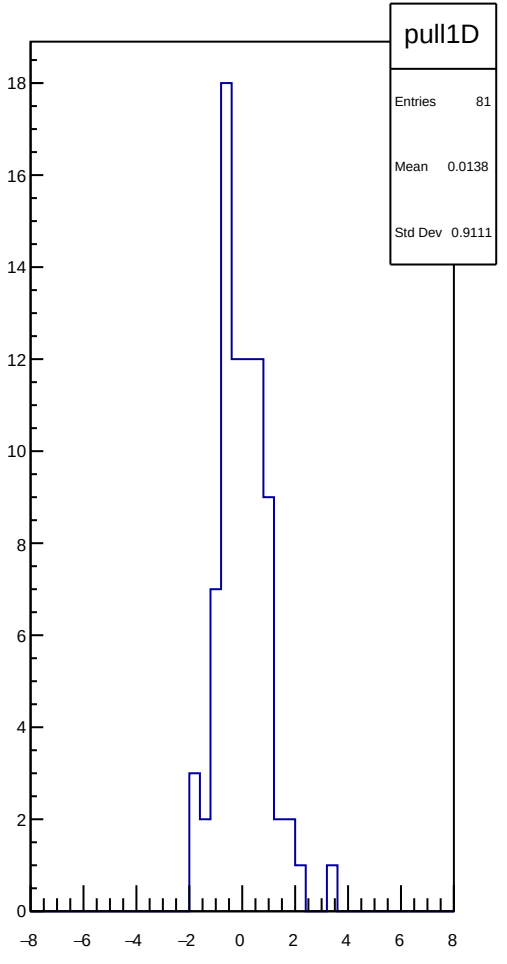

diff_bpm4eX_rms vs run
χ^2 / ndf 4237 / 80
p0 8336 ± 6.659
11000
10500
10000
9500
9000
8500
8000
7500

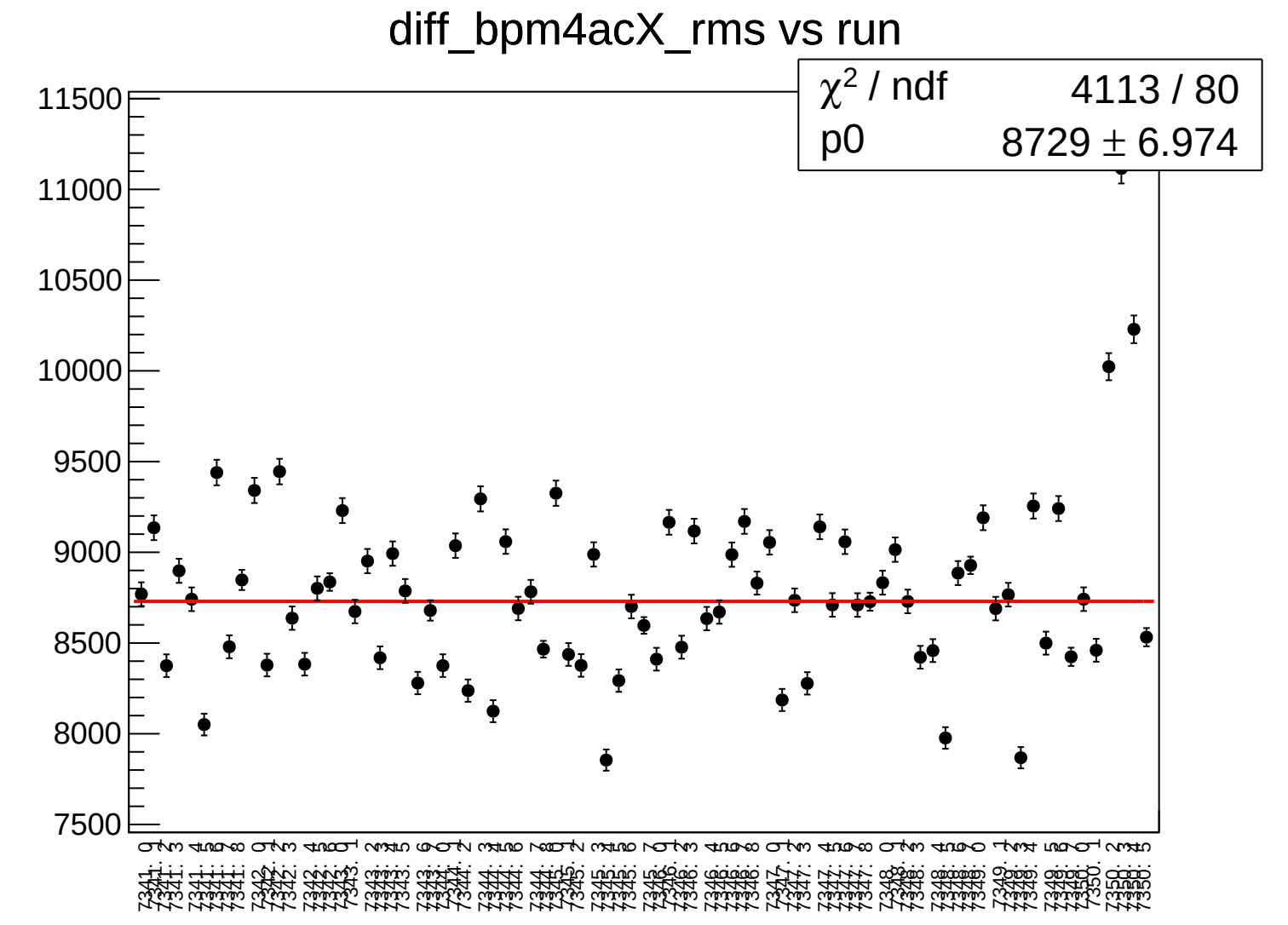

diff_bpm4eY_mean vs run
χ² / ndf 71.2 / 80
p0 10.48 ± 8.981
pull
Entries 81
Mean −106.8
Std Dev 157.4

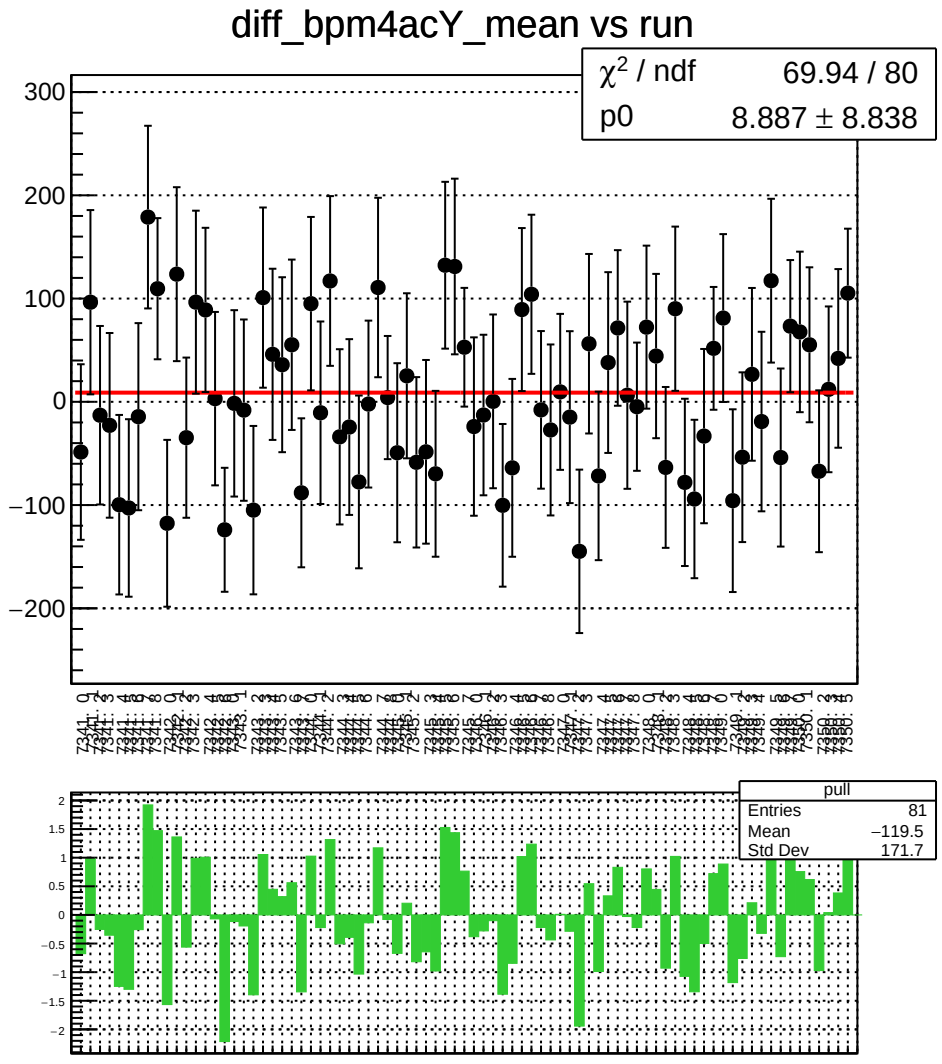

pull1D
Entries 81
Mean −0.006931
Std Dev 0.9375

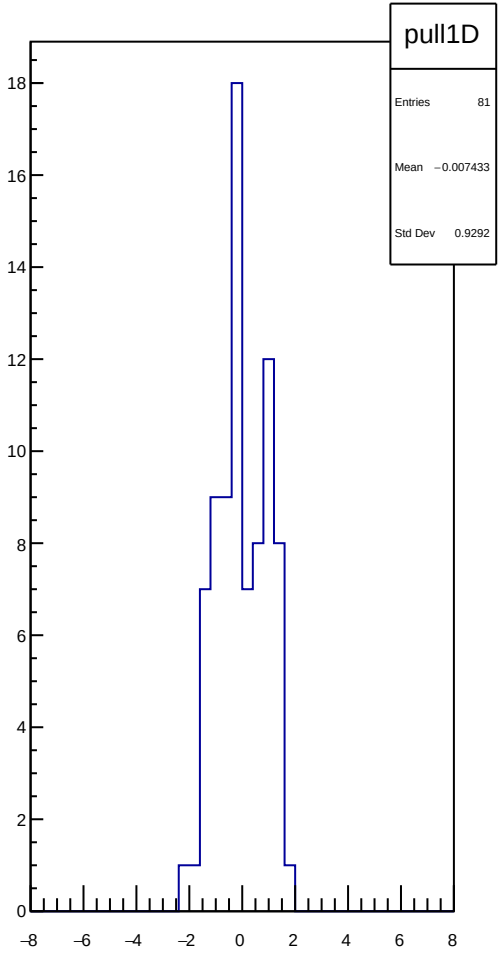

diff_bpm4eY_rms vs run
χ² / ndf 5033 / 80
p0 7947 ± 6.35
9000
8500
8000
7500
7000

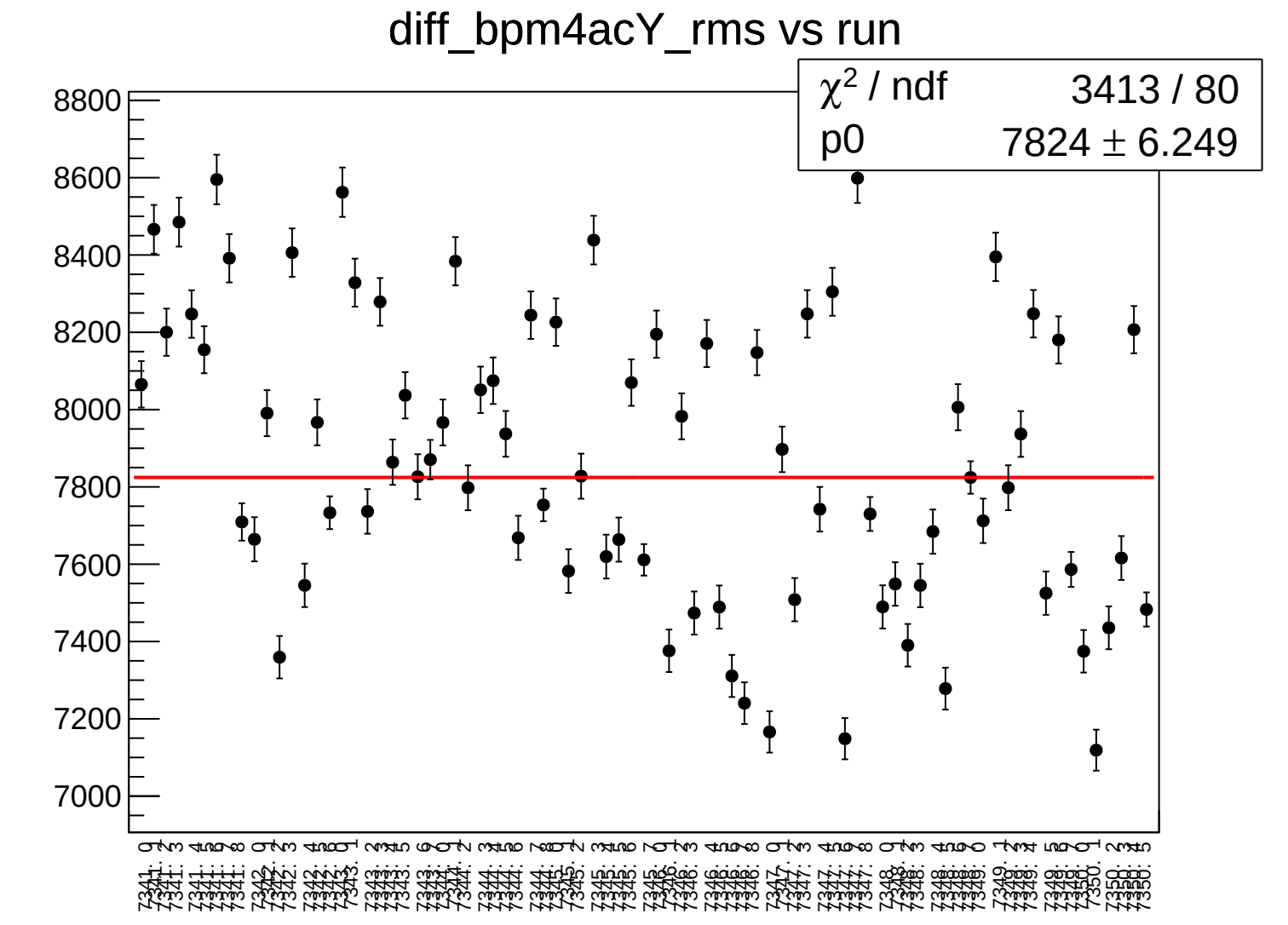

diff_bpm4acX_mean vs run
χ² / ndf 67.26 / 80
p0 −8.912 ± 9.862
pull
Entries 81
Mean 283.2
Std Dev 243.1

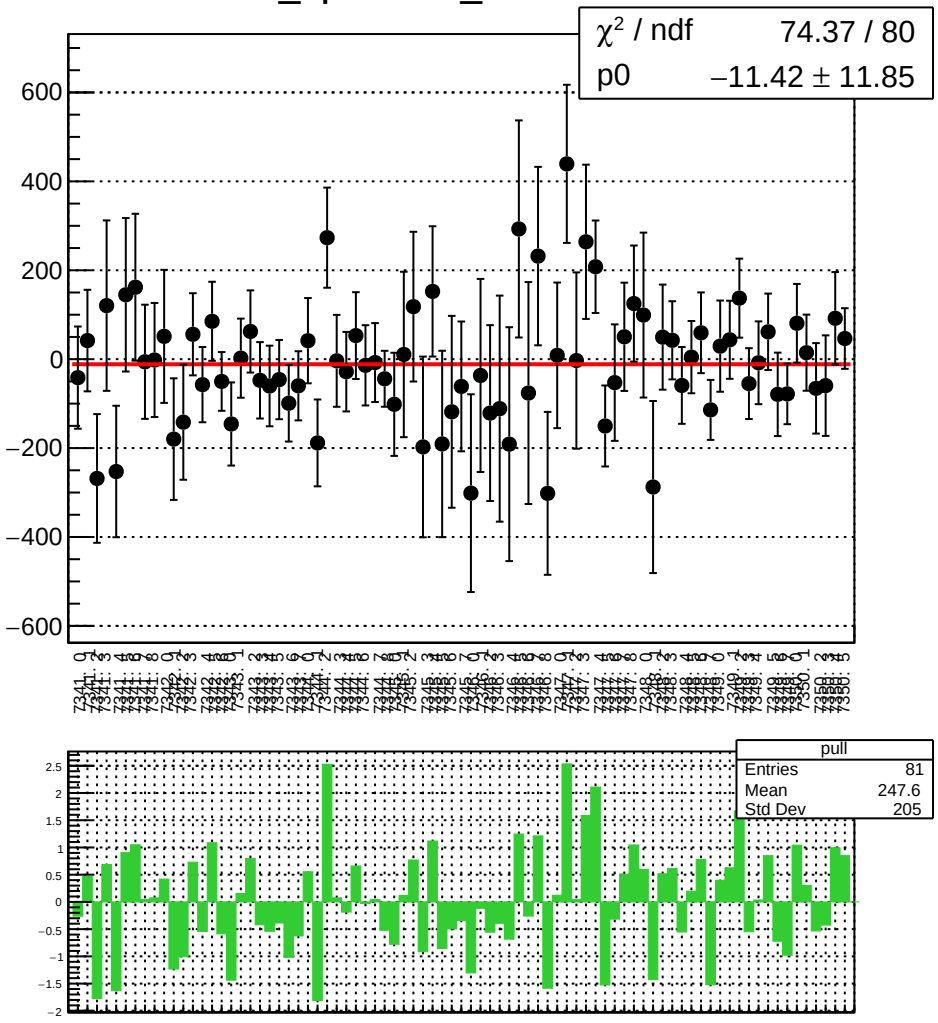

pull1D
Entries 81
Mean 0.0138
Std Dev 0.9111

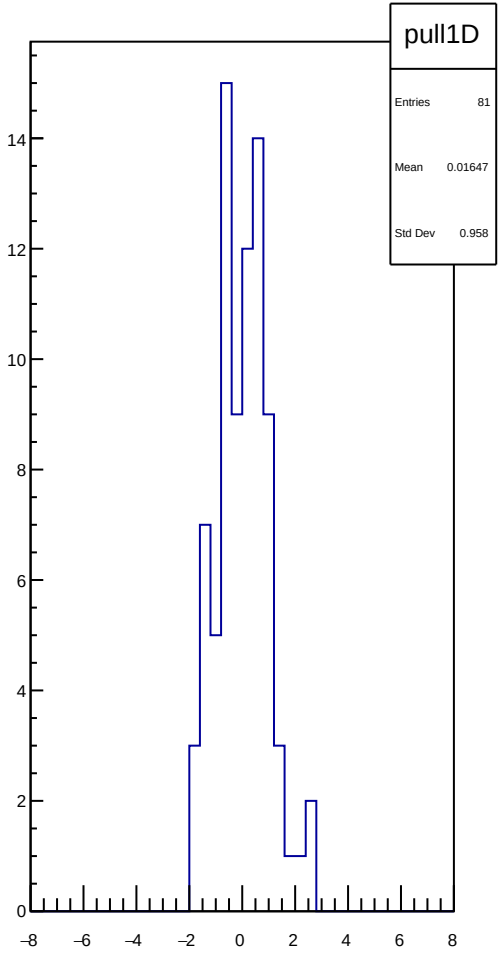

diff_bpm4acX_rms vs run
χ² / ndf 4113 / 80
p0 8729 ± 6.974
11500
11000
10500
10000
9500
9000
8500
8000
7500

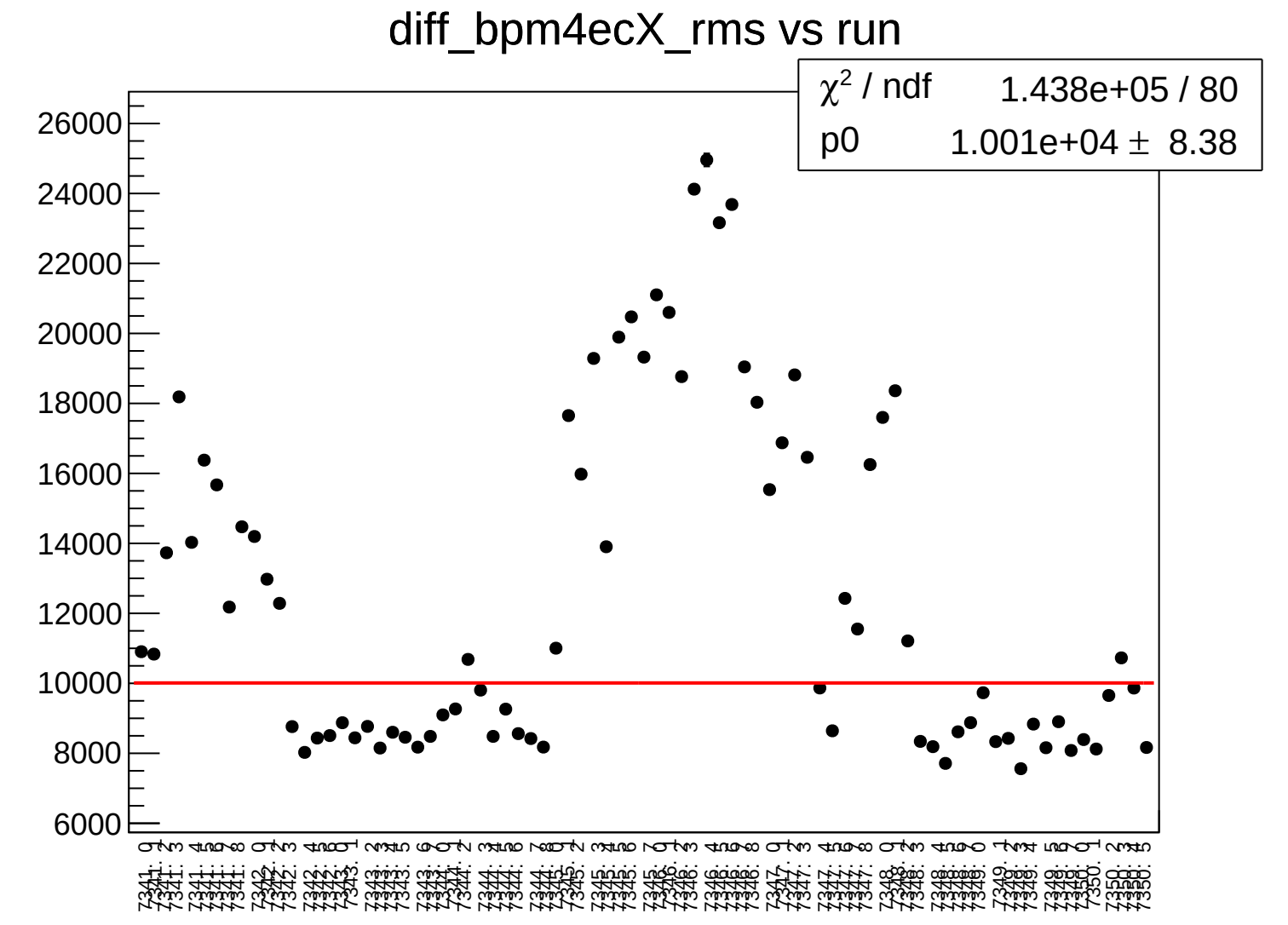

diff_bpm4acY_mean vs run
χ² / ndf 69.94 / 80
p0 8.887 ± 8.838
pull
Entries 81
Mean −119.5
Std Dev 171.7

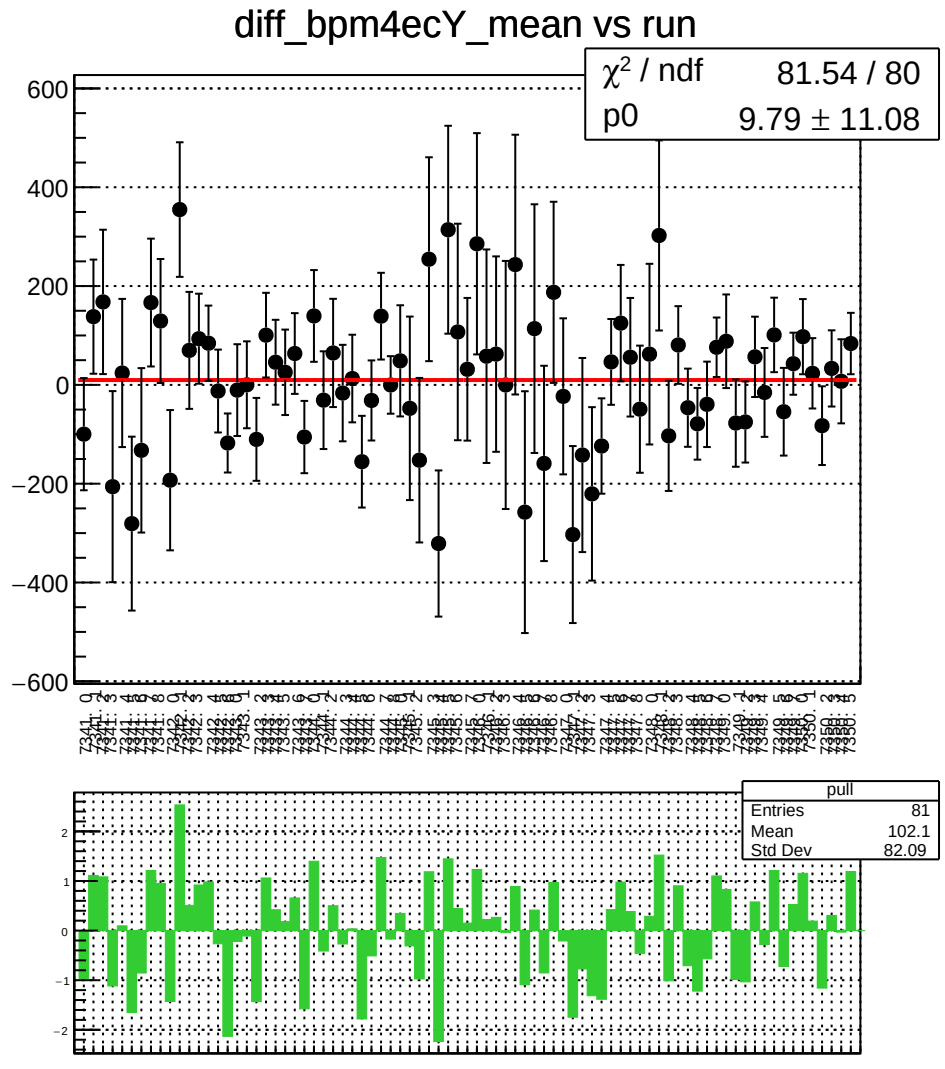

pull1D
Entries 81
Mean −0.007433
Std Dev 0.9292

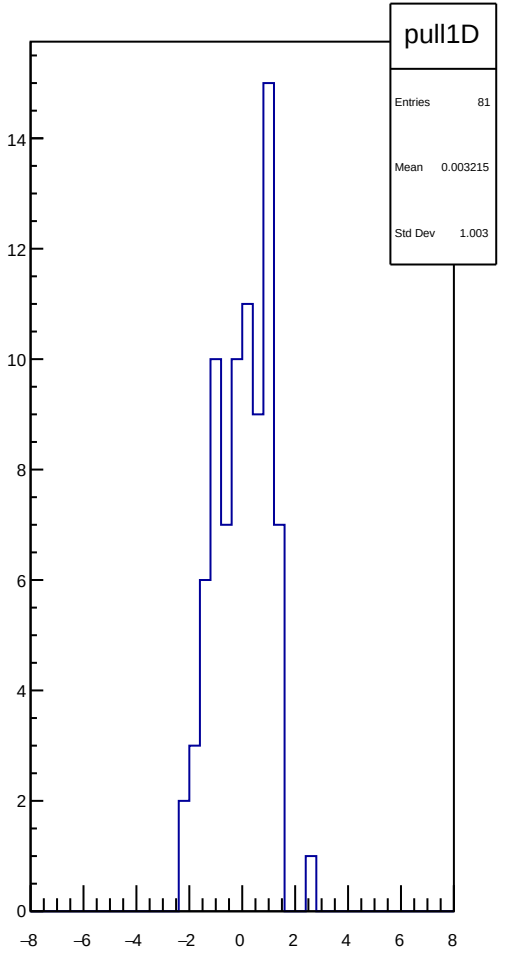

diff_bpm4acY_rms vs run
χ² / ndf 3413 / 80
p0 7824 ± 6.249
8800
8600
8400
8200
8000
7800
7600
7400
7200
7000

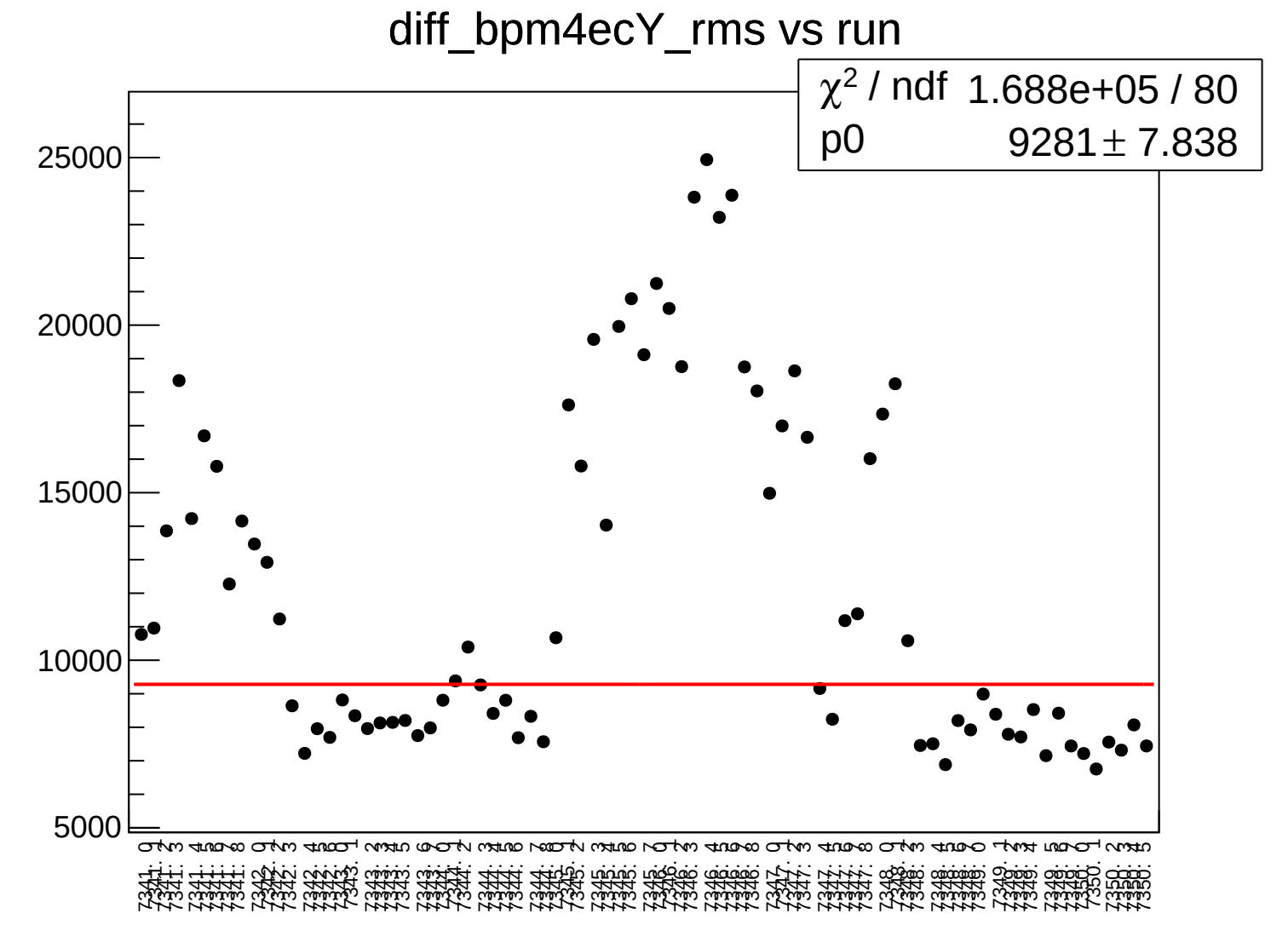

diff_bpm4ecX_mean vs run
χ^2 / ndf 74.37 / 80
p0 −11.42 ± 11.85
pull
Entries 81
Mean 247.6
Std Dev 205

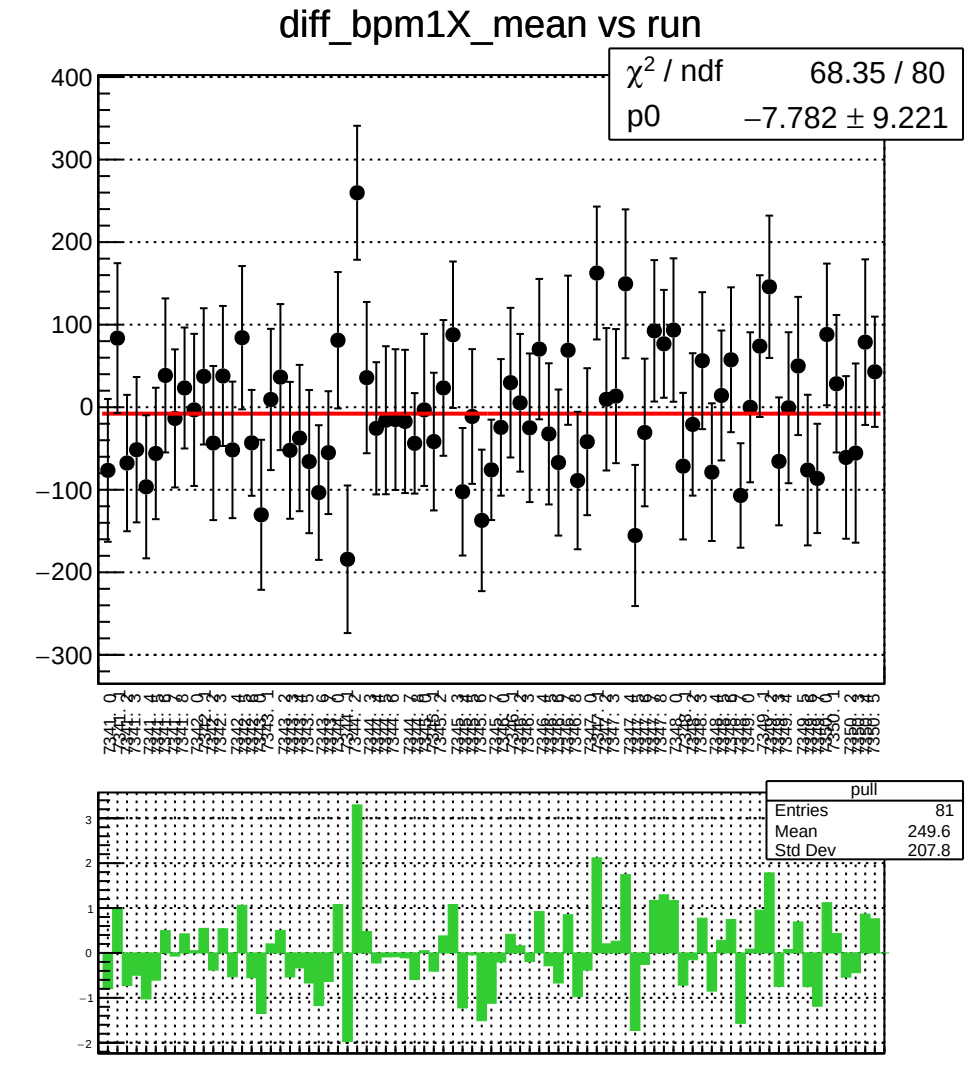

pull1D
Entries 81
Mean 0.01647
Std Dev 0.958

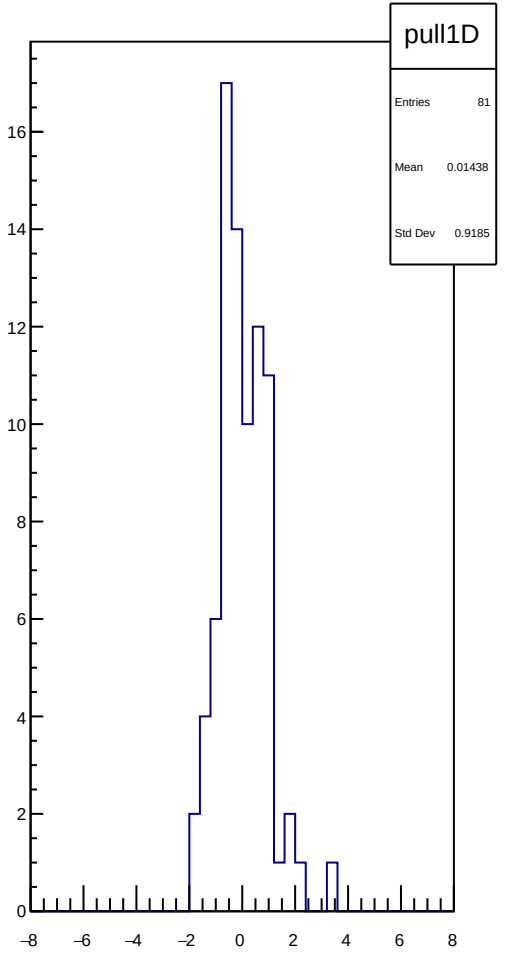

diff_bpm4ecX_rms vs run
χ² / ndf 1.438e+05 / 80
p0 1.001e+04 ± 8.38
26000
24000
22000
20000
18000
16000
14000
12000
10000
8000
6000

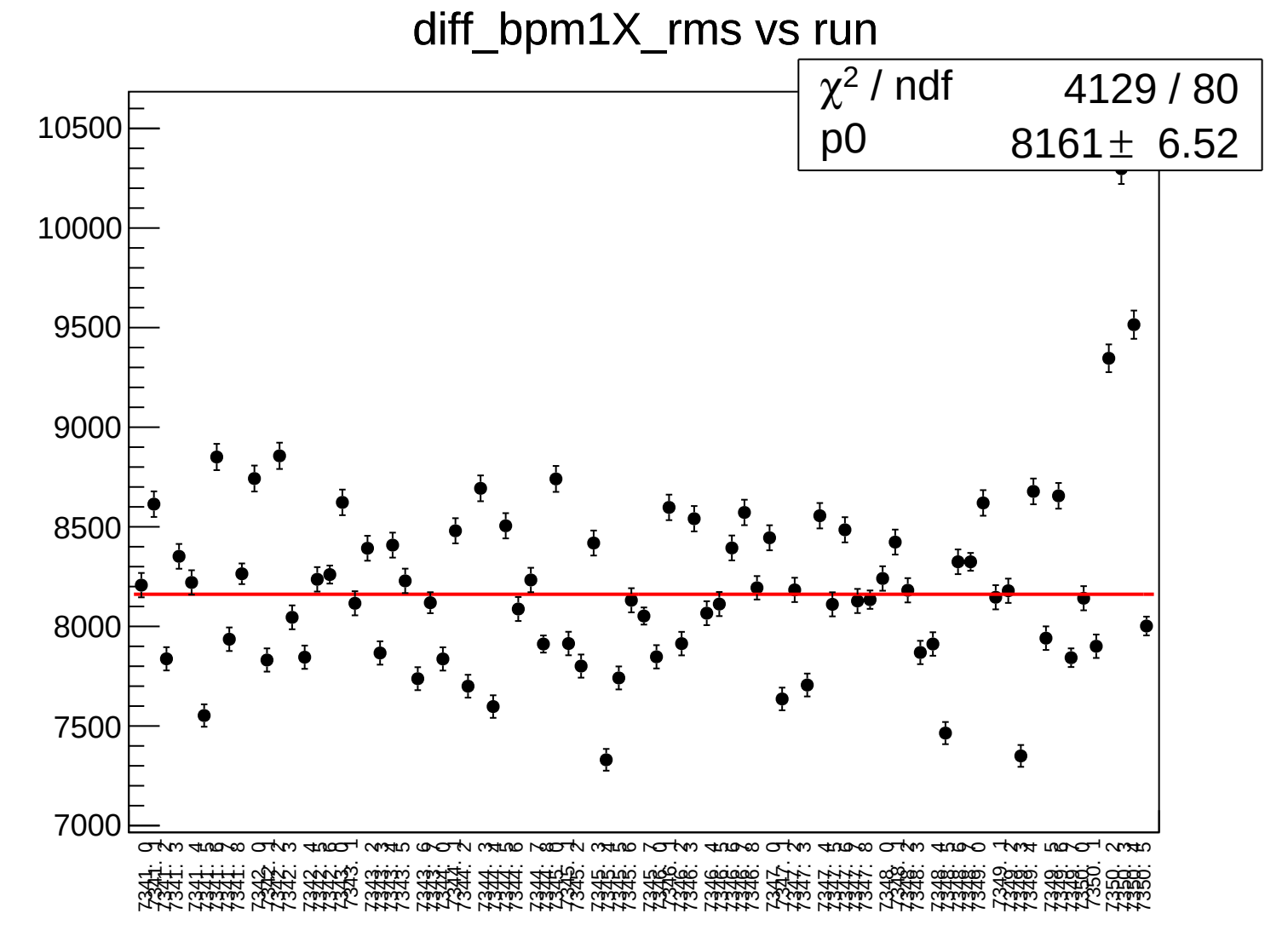

diff_bpm4ecY_mean vs run
χ² / ndf 81.54 / 80
p0 9.79 ± 11.08
pull
Entries 81
Mean 102.1
Std Dev 82.09

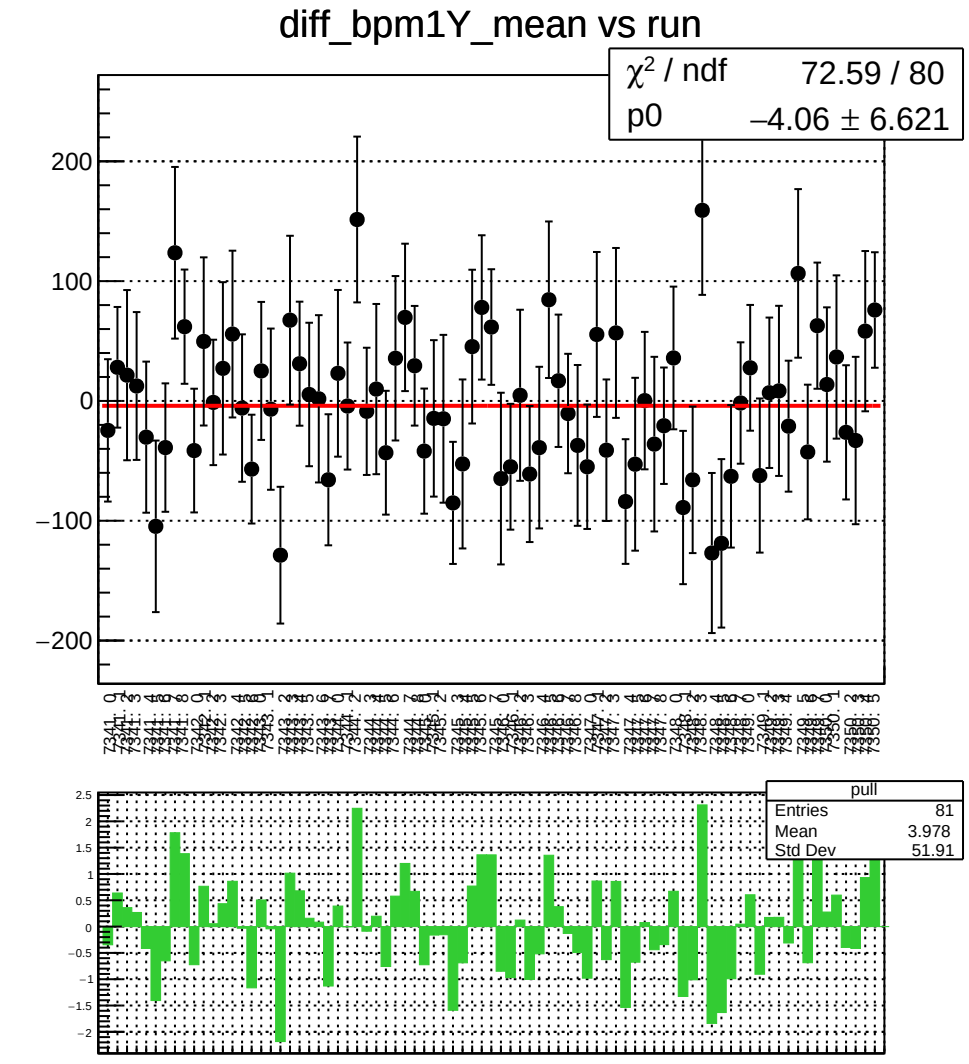

pull1D
Entries 81
Mean 0.003215
Std Dev 1.003

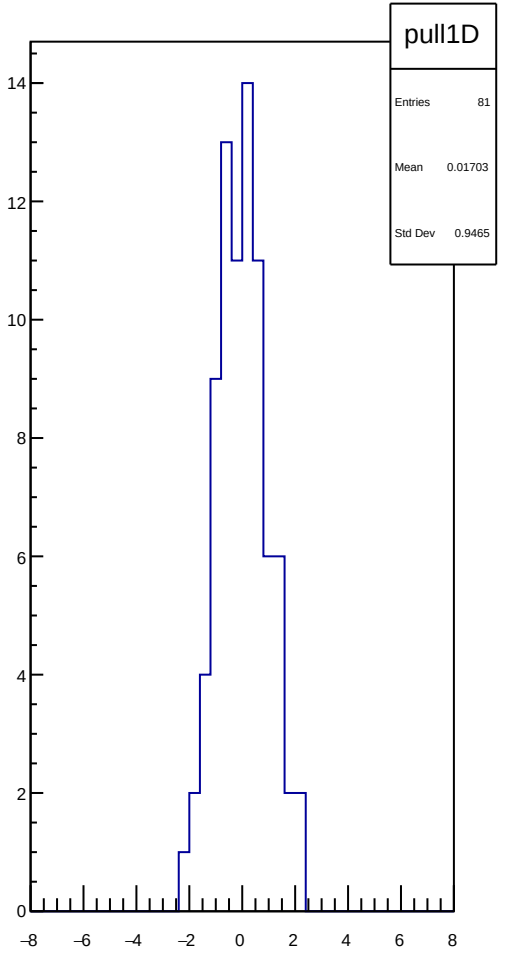

diff_bpm4ecY_rms vs run
χ² / ndf 1.688e+05 / 80
p0 9281 ± 7.838
25000
20000
15000
10000
5000

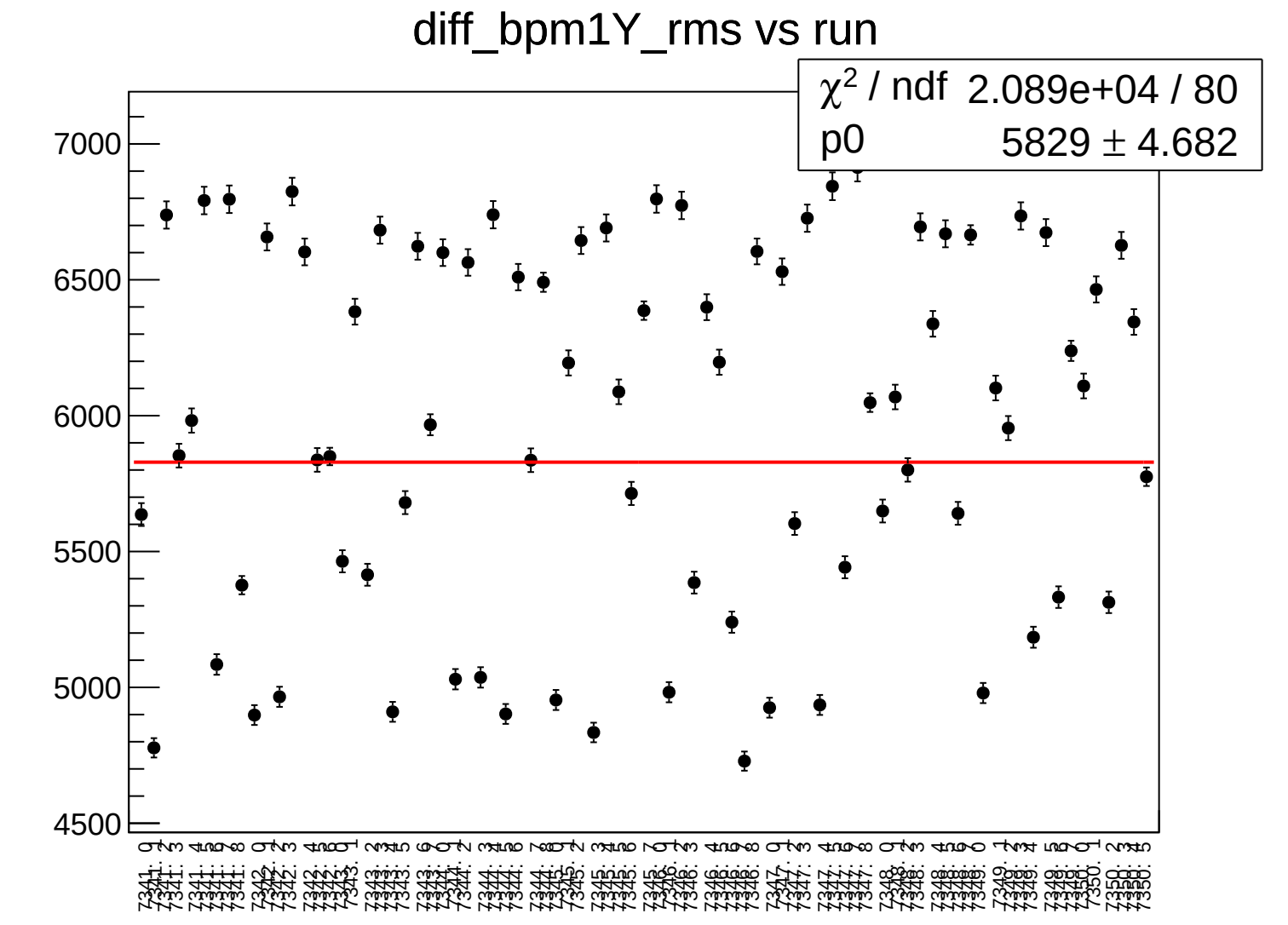

diff_bpm1X_mean vs run
χ² / ndf 68.35 / 80
p0 −7.782 ± 9.221
pull
Entries 81
Mean 249.6
Std Dev 207.8

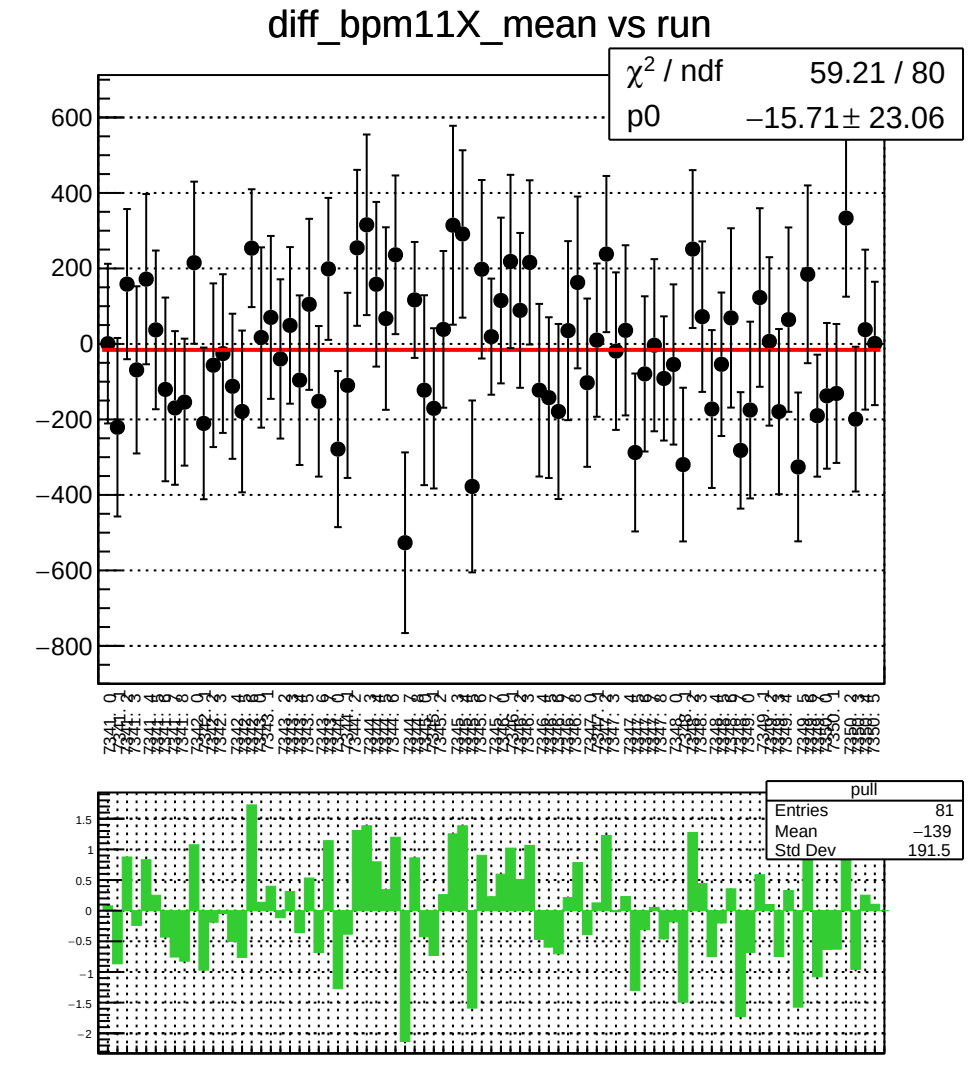

pull1D
Entries 81
Mean 0.01438
Std Dev 0.9185

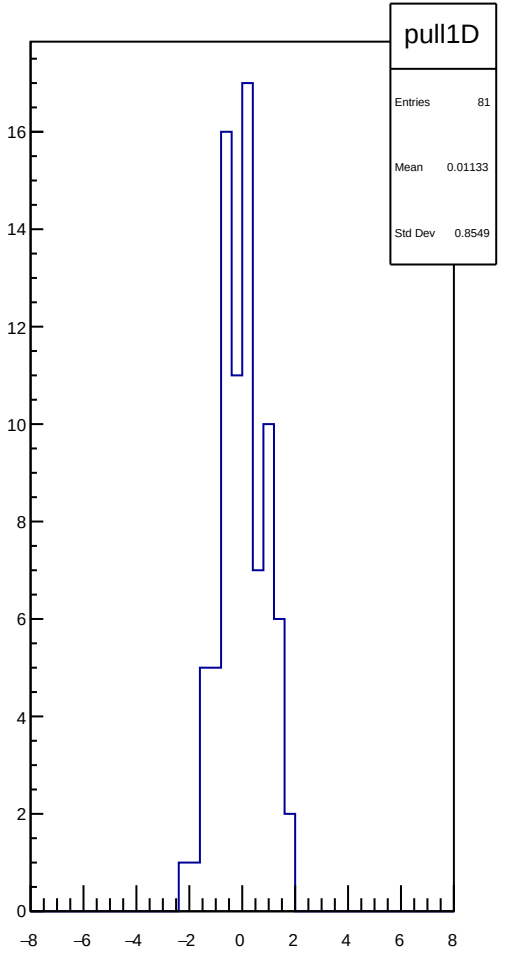

diff_bpm1X_rms vs run
χ² / ndf 4129 / 80
p0 8161 ± 6.52
10500
10000
9500
9000
8500
8000
7500
7000

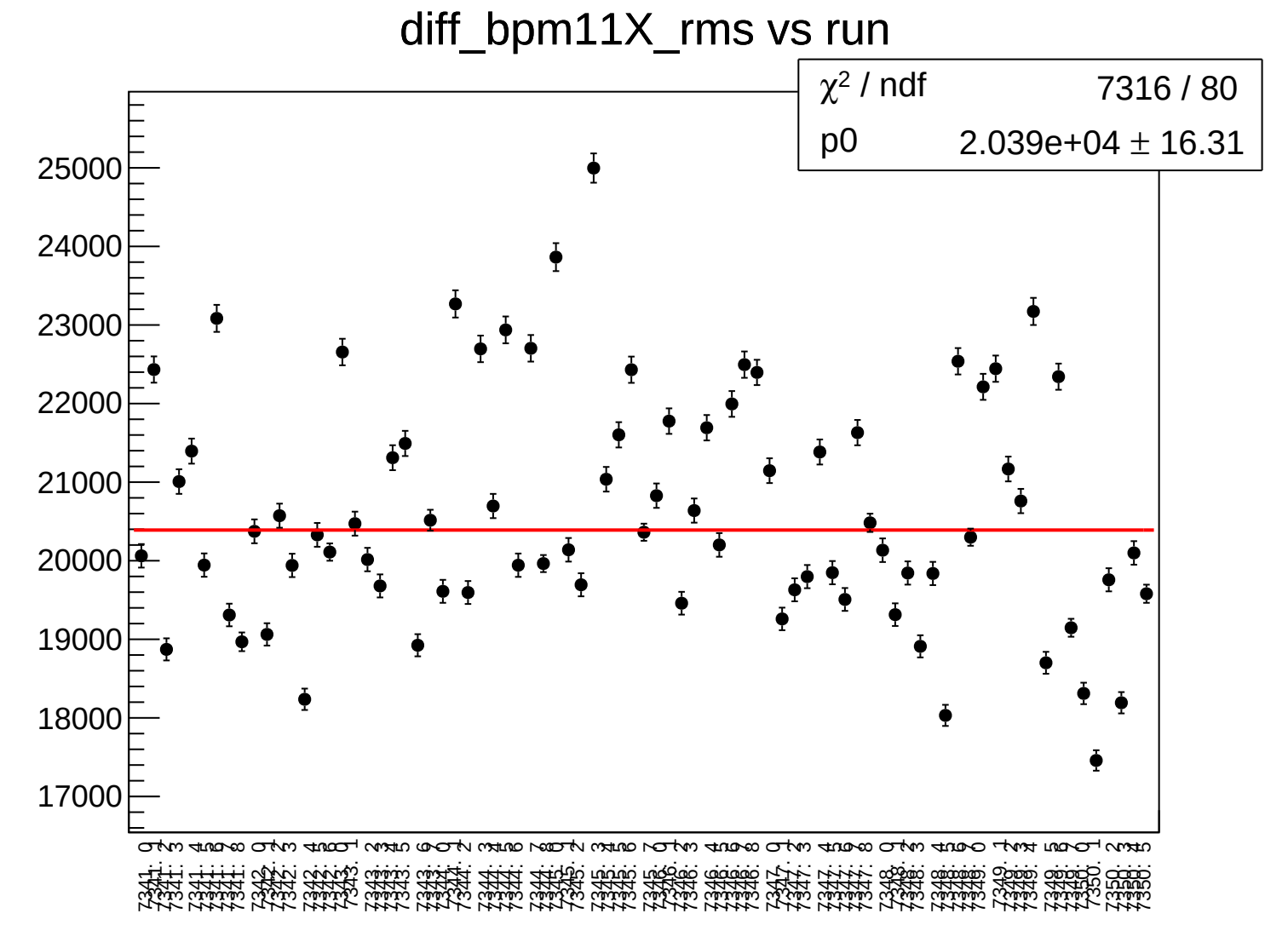

diff_bpm1Y_mean vs run
χ² / ndf 72.59 / 80
p0 −4.06 ± 6.621
pull
Entries 81
Mean 3.978
Std Dev 51.91

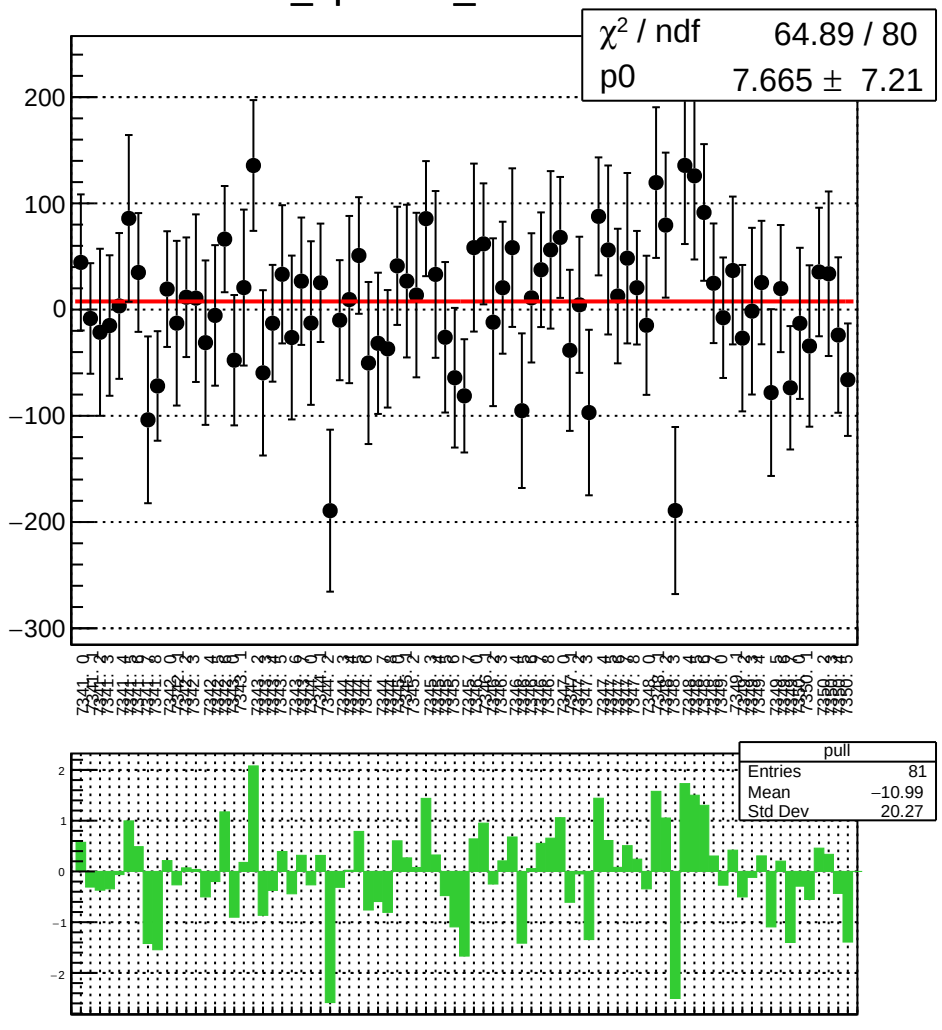

pull1D
Entries 81
Mean 0.01703
Std Dev 0.9465

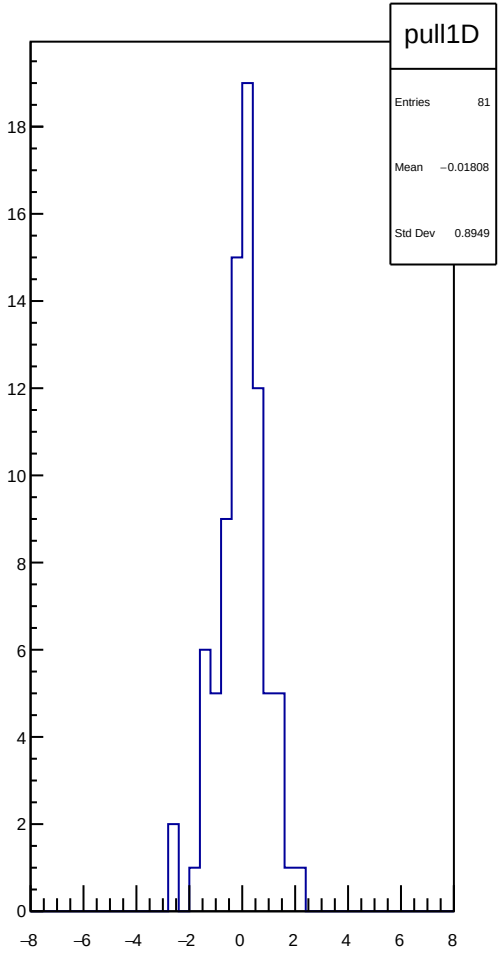

diff_bpm1Y_rms vs run
χ^2 / ndf 2.089e+04 / 80
p0 5829 ± 4.682
7000
6500
6000
5500
5000
4500

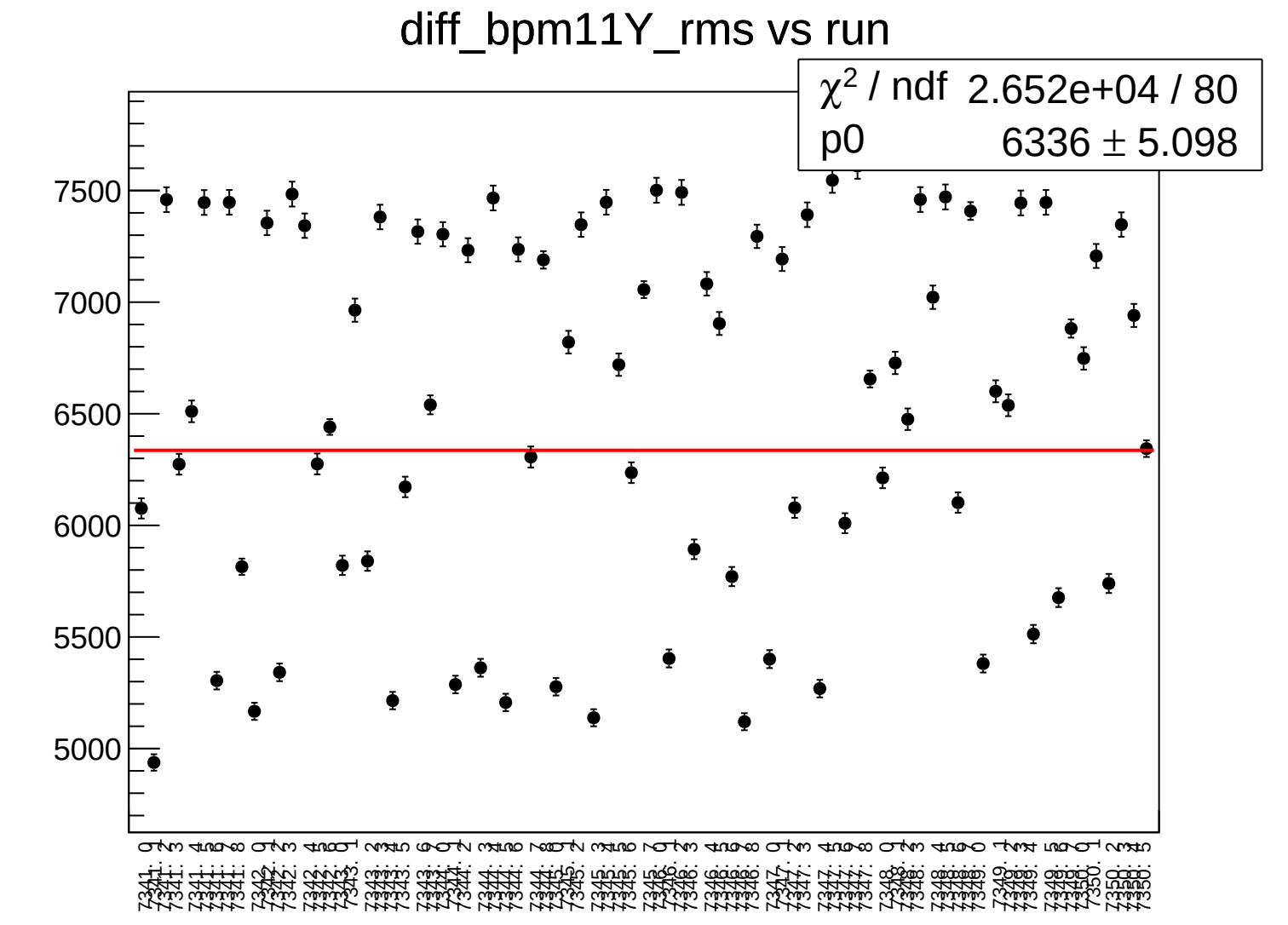

diff_bpm11X_mean vs run
χ² / ndf 59.21 / 80
p0 −15.71± 23.06
pull
Entries 81
Mean −139
Std Dev 191.5

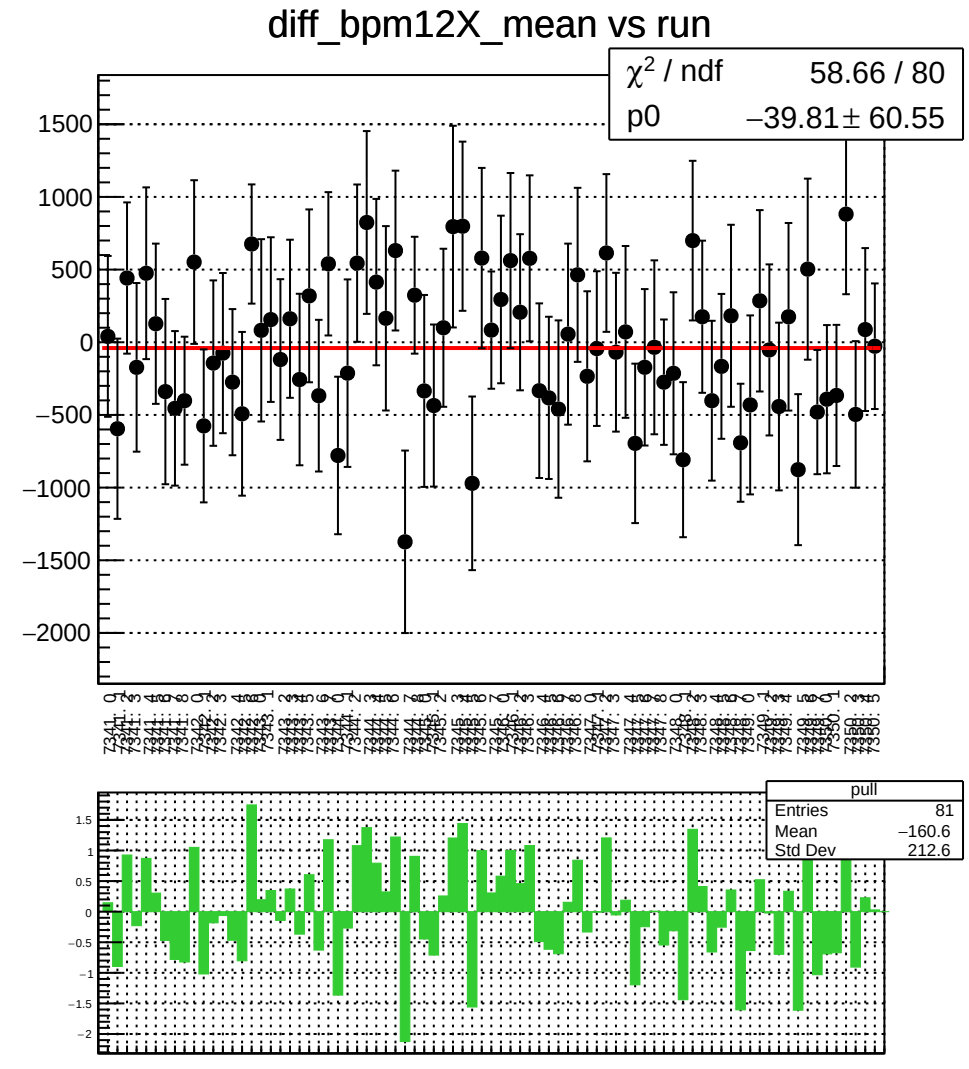

pull1D
Entries 81
Mean 0.01133
Std Dev 0.8549

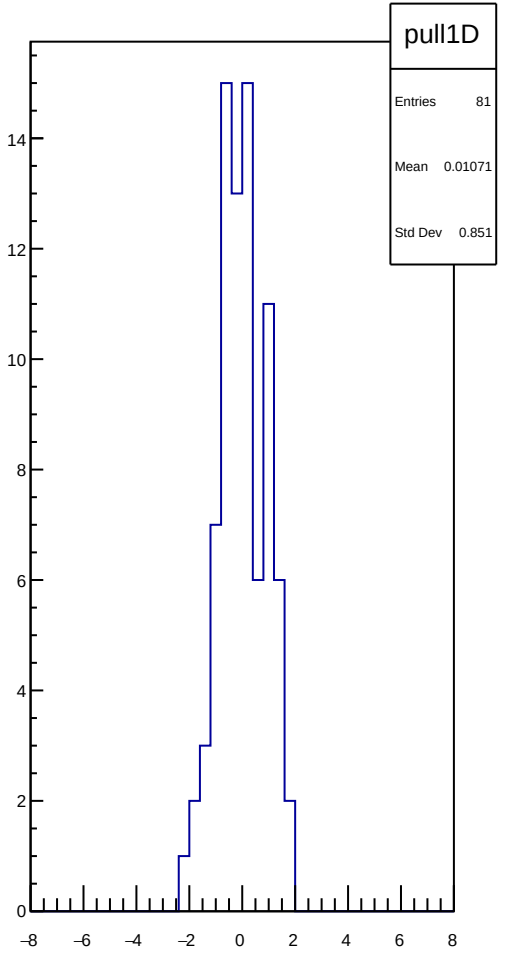

diff_bpm11X_rms vs run
χ² / ndf 7316 / 80
p0 2.039e+04 ± 16.31
25000
24000
23000
22000
21000
20000
19000
18000
17000


diff_bpm11Y_mean vs run
χ² / ndf 64.89 / 80
p0 7.665 ± 7.21
pull
Entries 81
Mean −10.99
Std Dev 20.27

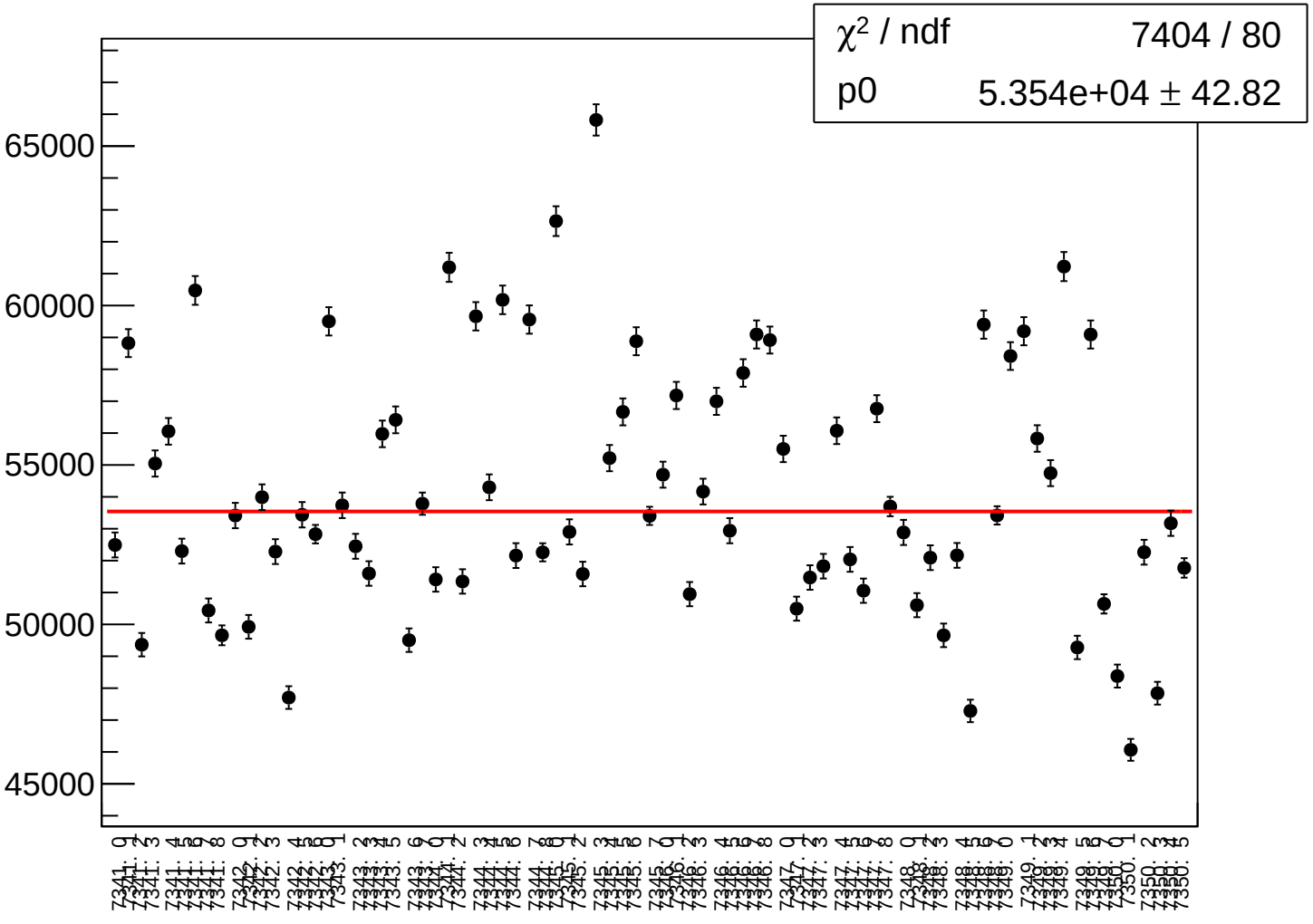

pull1D
Entries 81
Mean −0.01808
Std Dev 0.8949

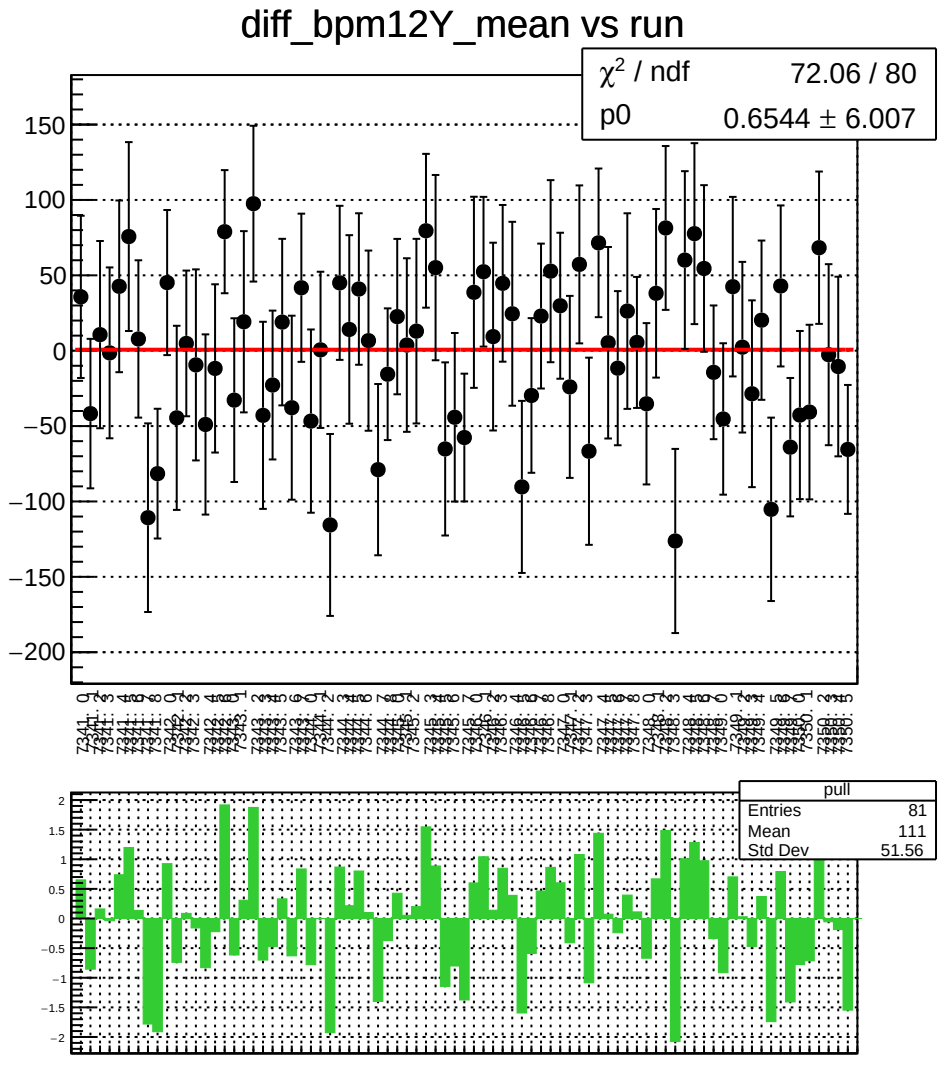

diff_bpm11Y_rms vs run
χ² / ndf 2.652e+04 / 80
p0 6336 ± 5.098
7500
7000
6500
6000
5500
5000

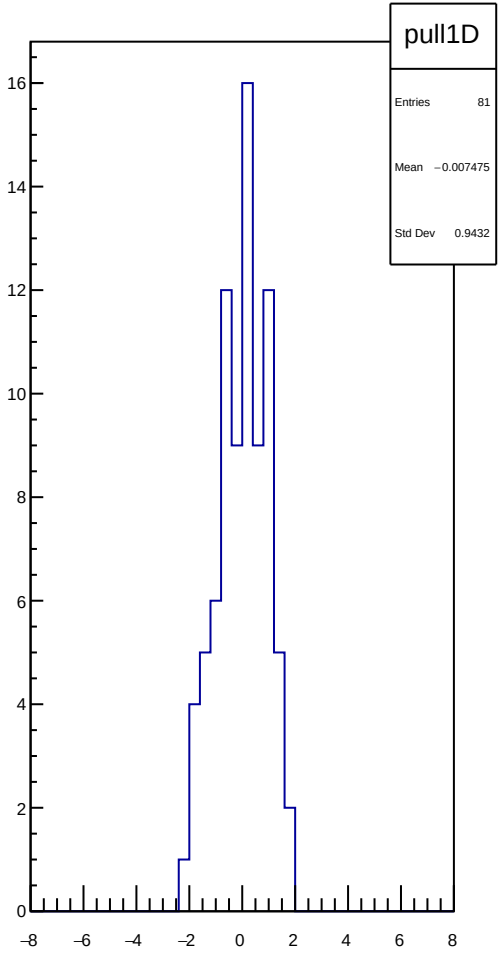

diff_bpm12X_mean vs run
χ² / ndf 58.66 / 80
p0 −39.81 ± 60.55
pull
Entries 81
Mean −160.6
Std Dev 212.6

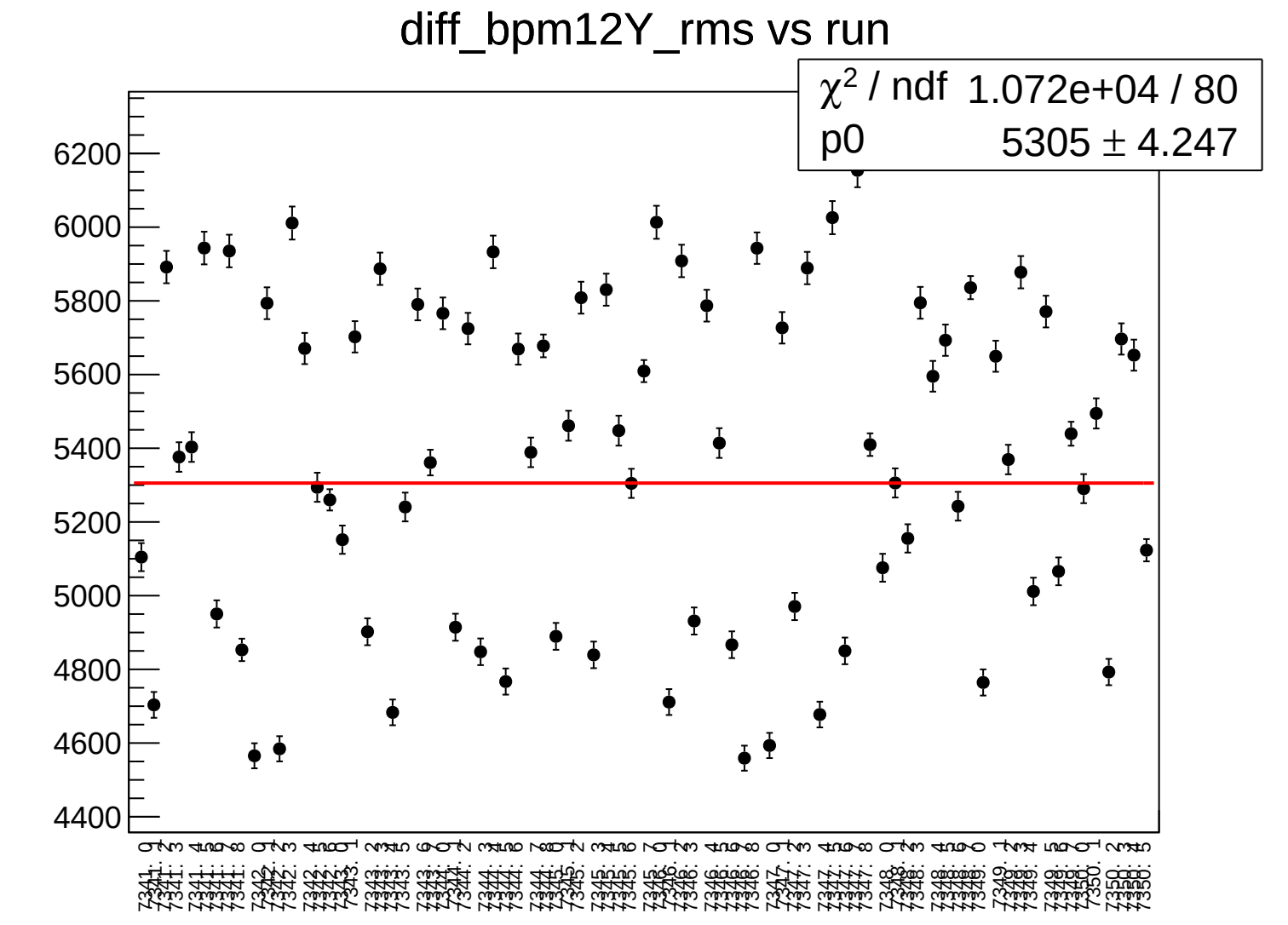

pull1D
Entries 81
Mean 0.01071
Std Dev 0.851

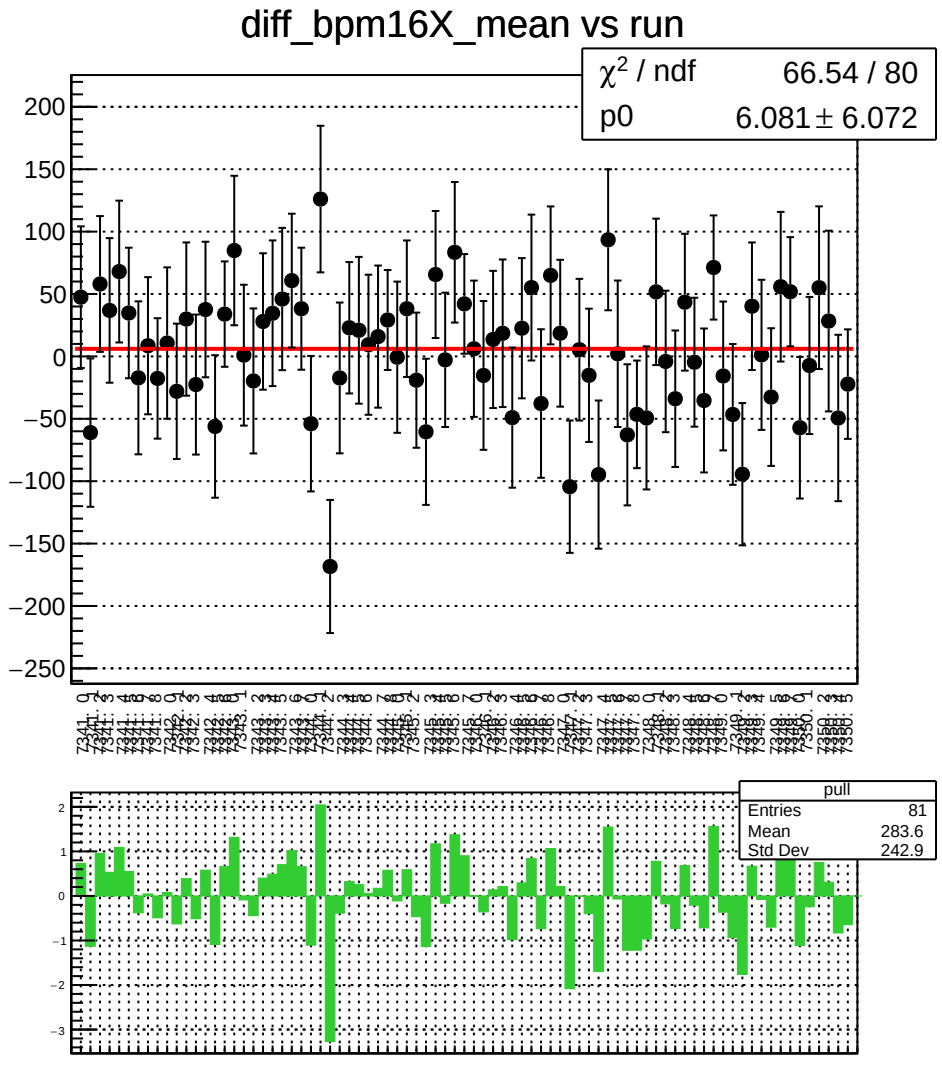
diff_bpm12X_rms vs run

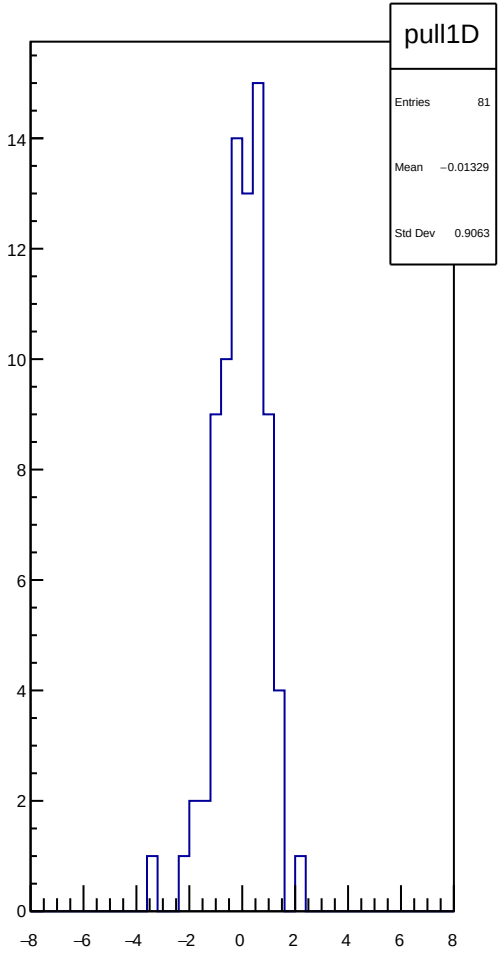


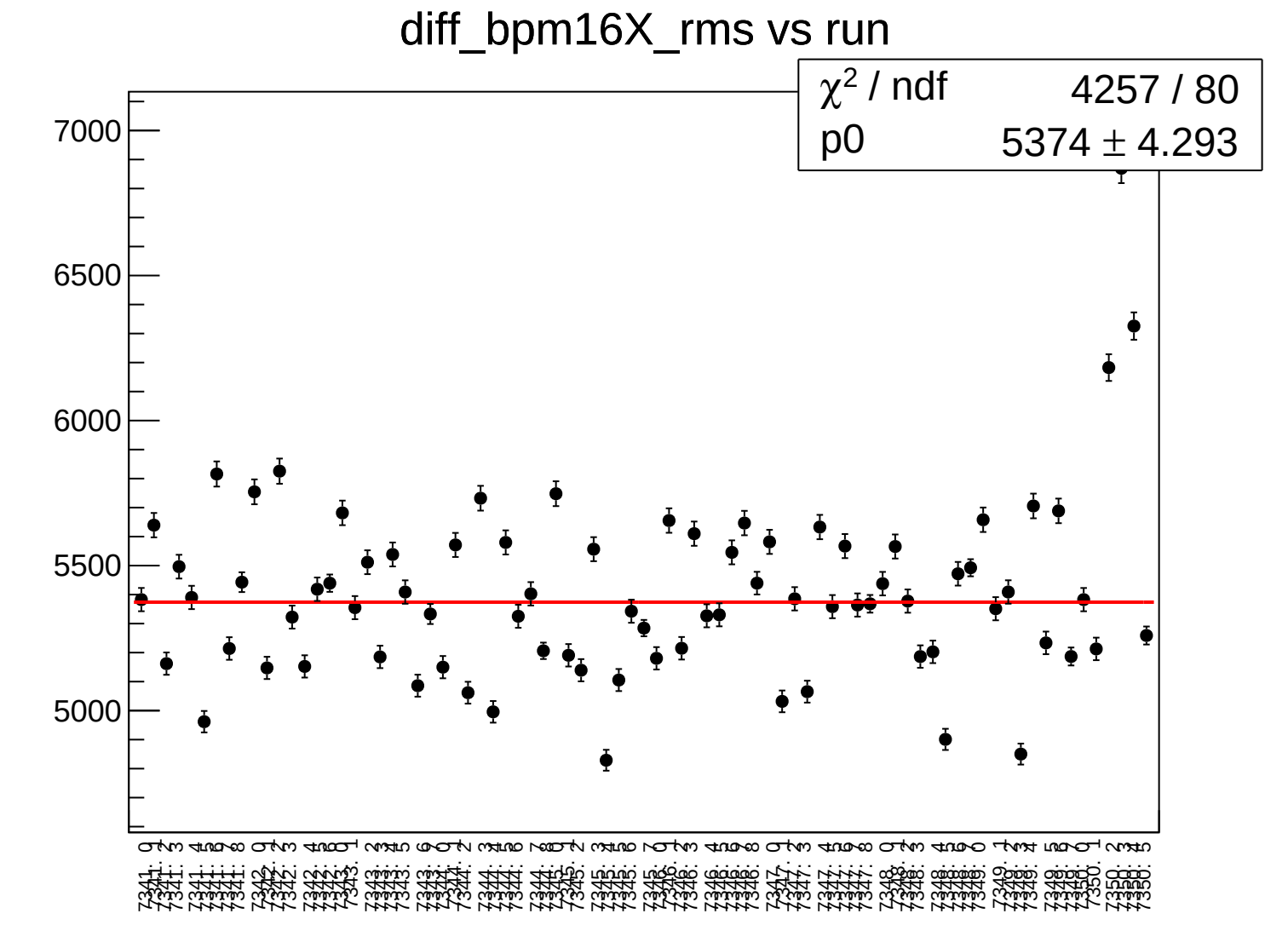

diff_bpm12Y_mean vs run
χ² / ndf 72.06 / 80
p0 0.6544 ± 6.007
pull
Entries 81
Mean 111
Std Dev 51.56

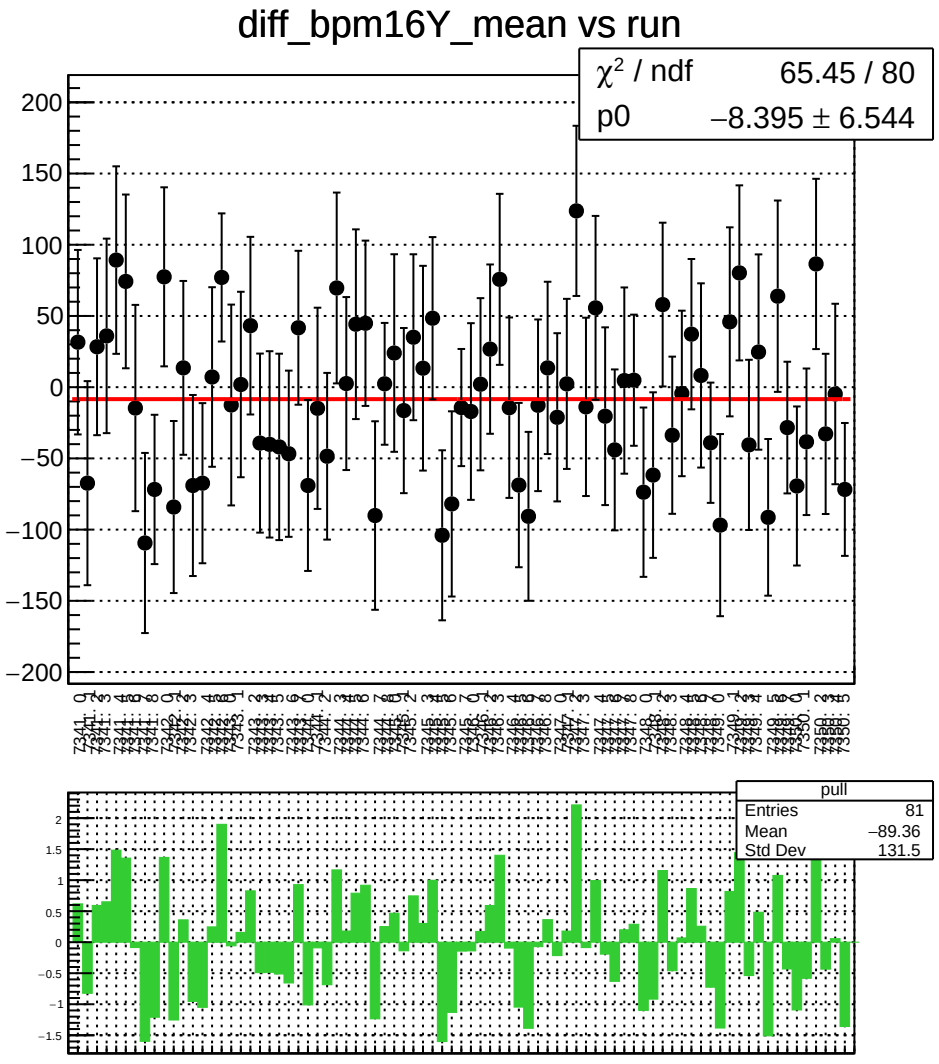

pull1D
Entries 81
Mean −0.007475
Std Dev 0.9432

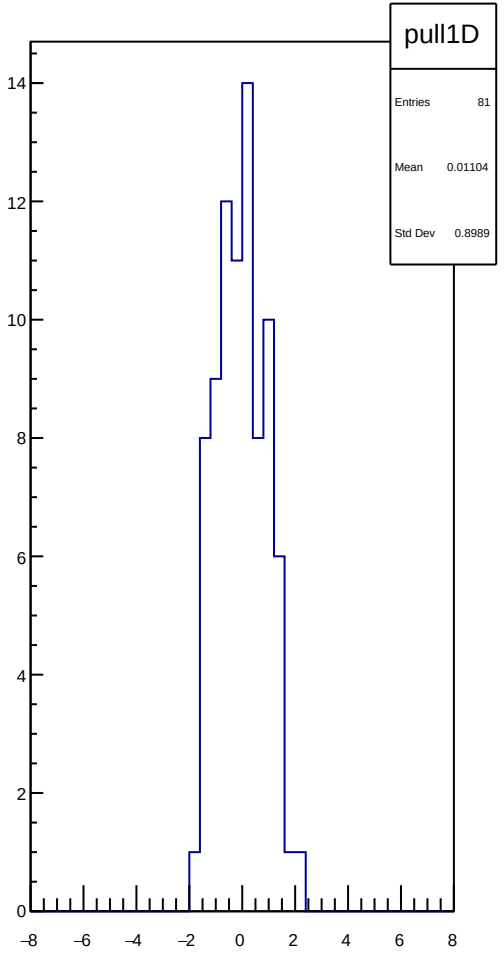

diff_bpm12Y_rms vs run
χ² / ndf 1.072e+04 / 80
p0 5305 ± 4.247
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

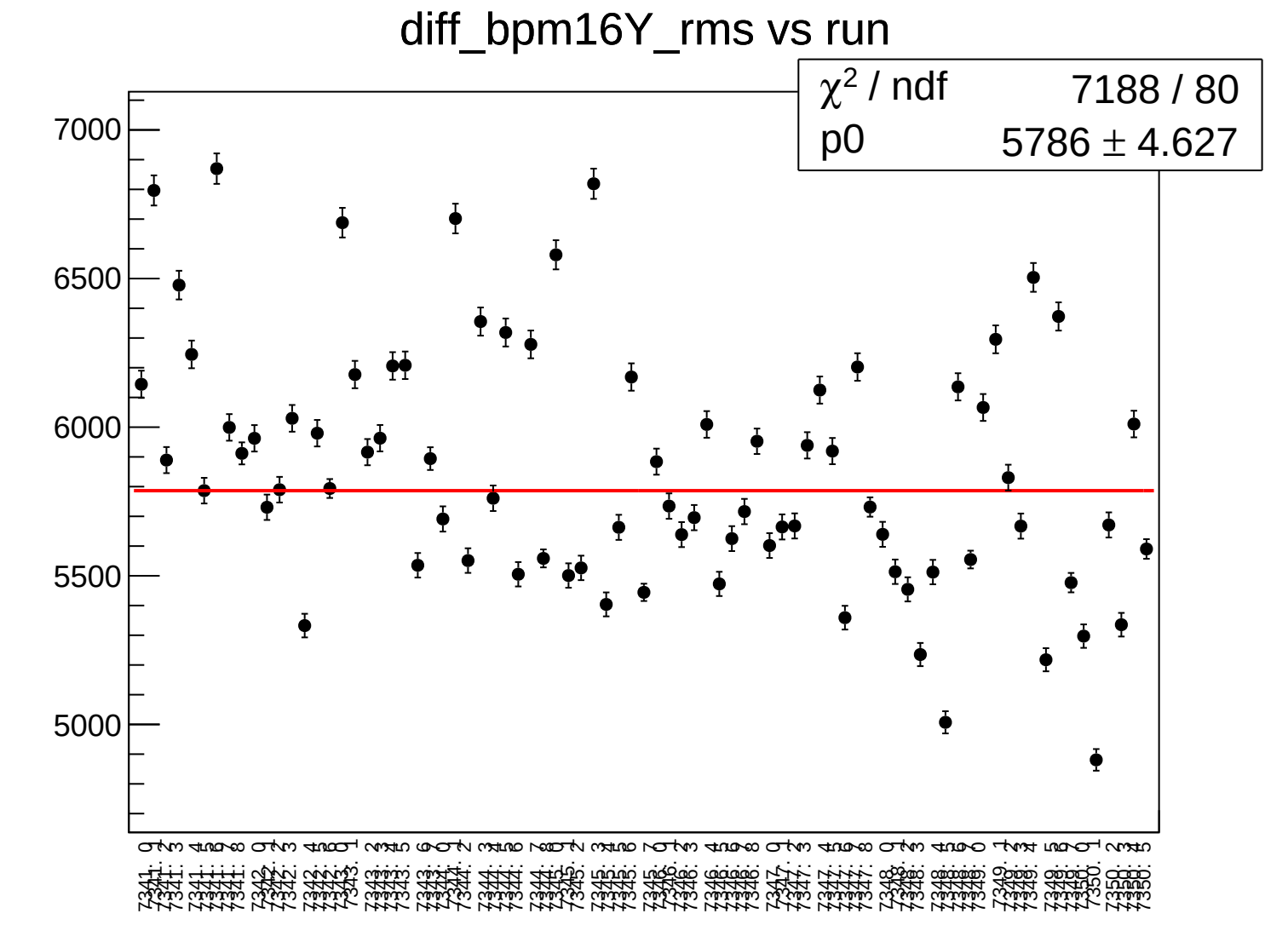

diff_bpm16X_mean vs run
χ² / ndf 66.54 / 80
p0 6.081 ± 6.072
pull
Entries 81
Mean 283.6
Std Dev 242.9

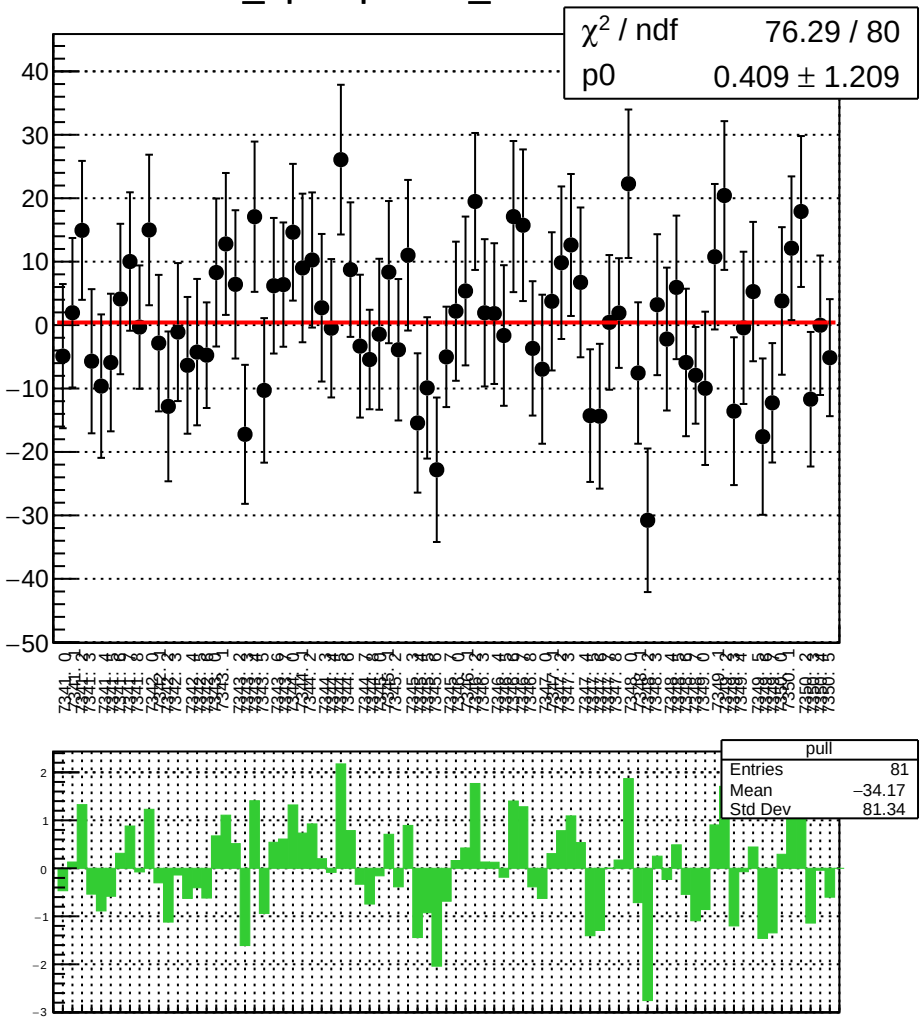

pull1D
Entries 81
Mean −0.01329
Std Dev 0.9063

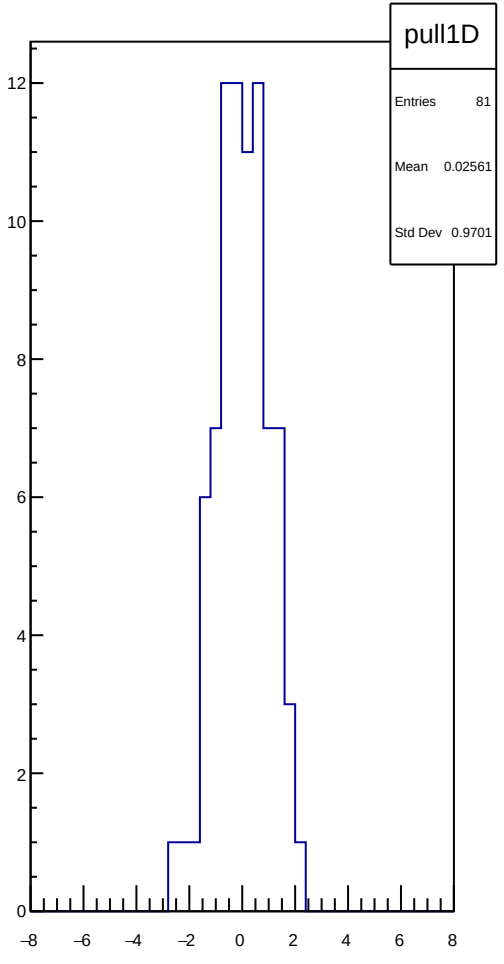

diff_bpm16X_rms vs run
χ^2 / ndf 4257 / 80
p0 5374 ± 4.293
7000
6500
6000
5500
5000

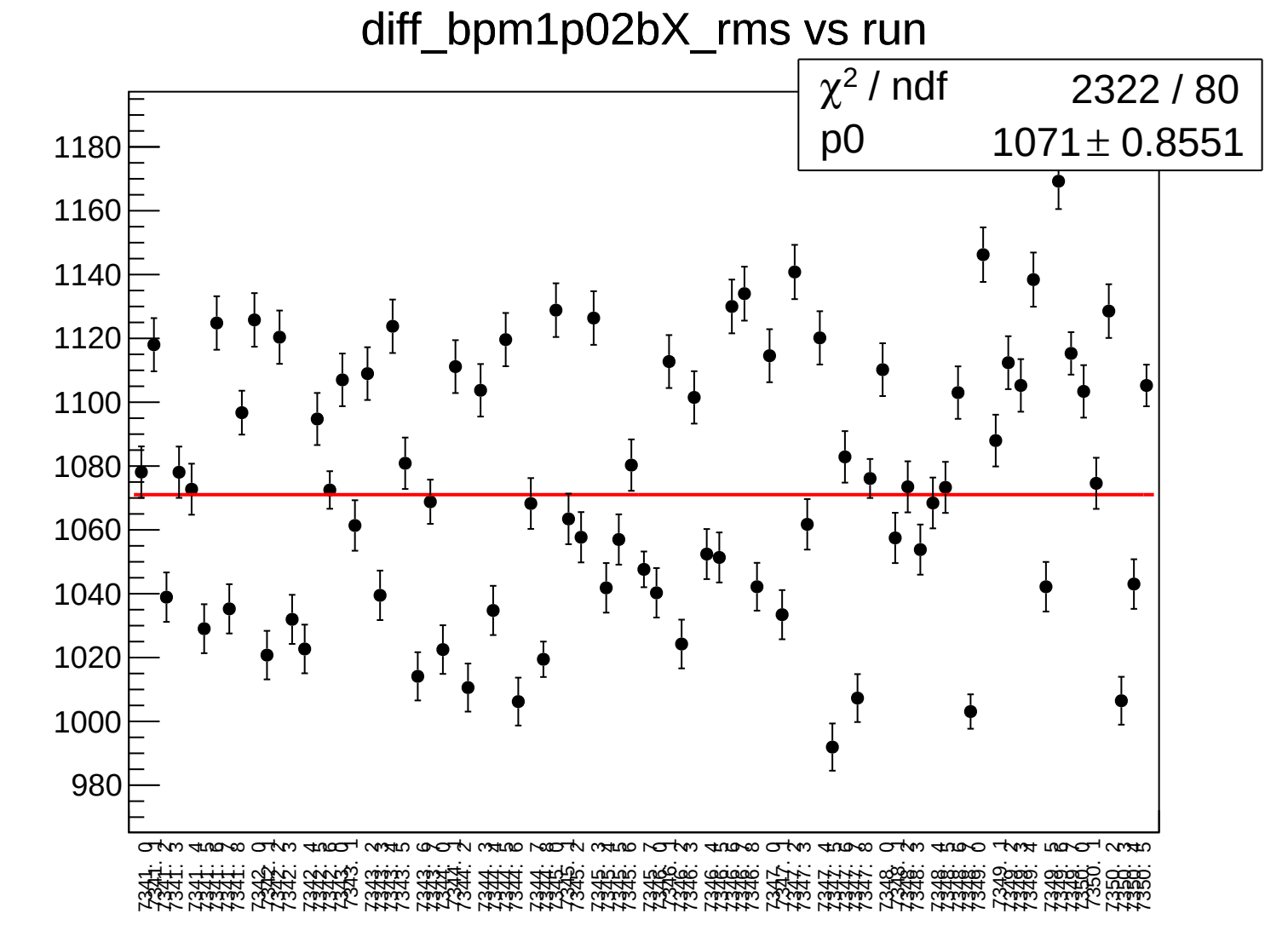

diff_bpm16Y_mean vs run
χ² / ndf 65.45 / 80
p0 −8.395 ± 6.544
pull
Entries 81
Mean −89.36
Std Dev 131.5

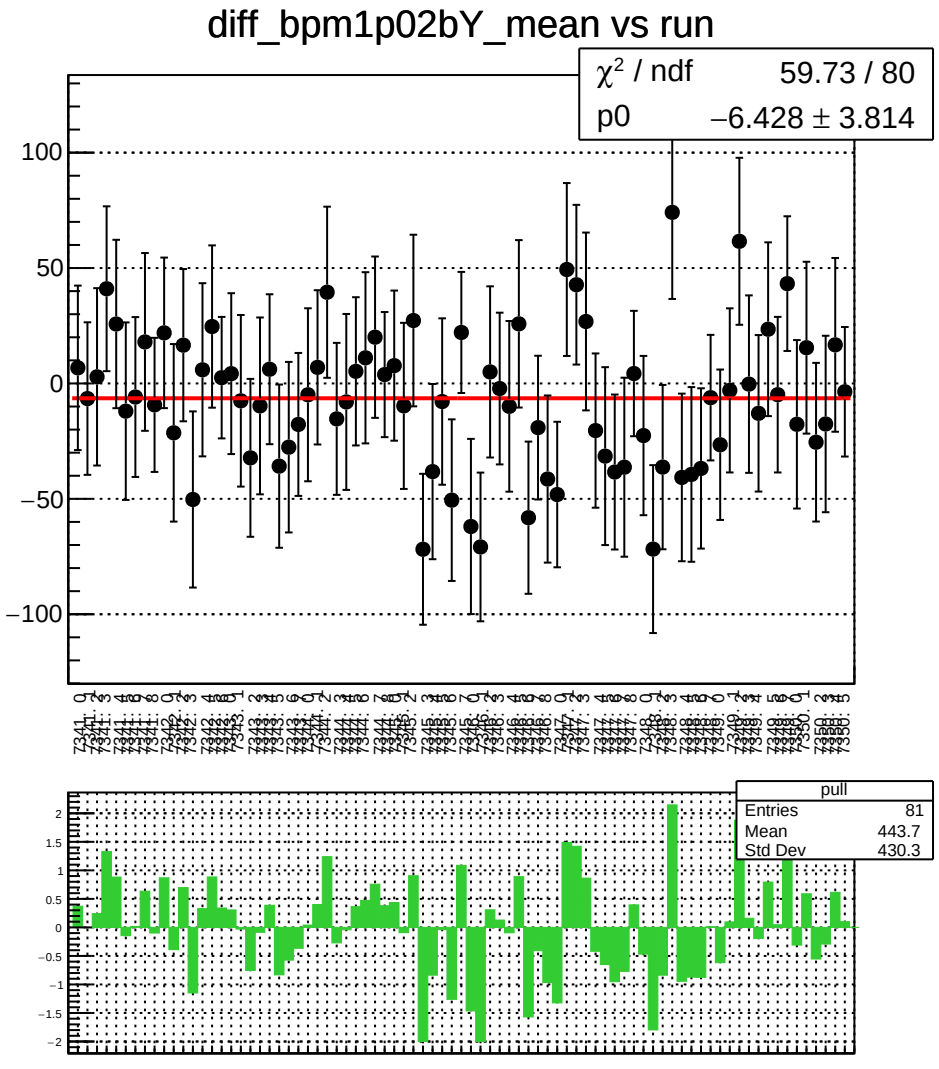

pull1D
Entries 81
Mean 0.01104
Std Dev 0.8989

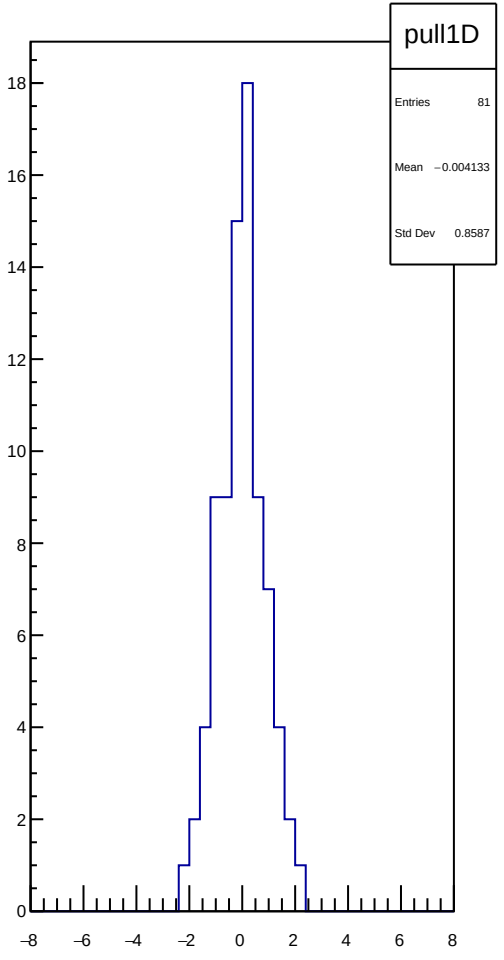

diff_bpm16Y_rms vs run
χ^2 / ndf 7188 / 80
p0 5786 ± 4.627
7000
6500
6000
5500
5000

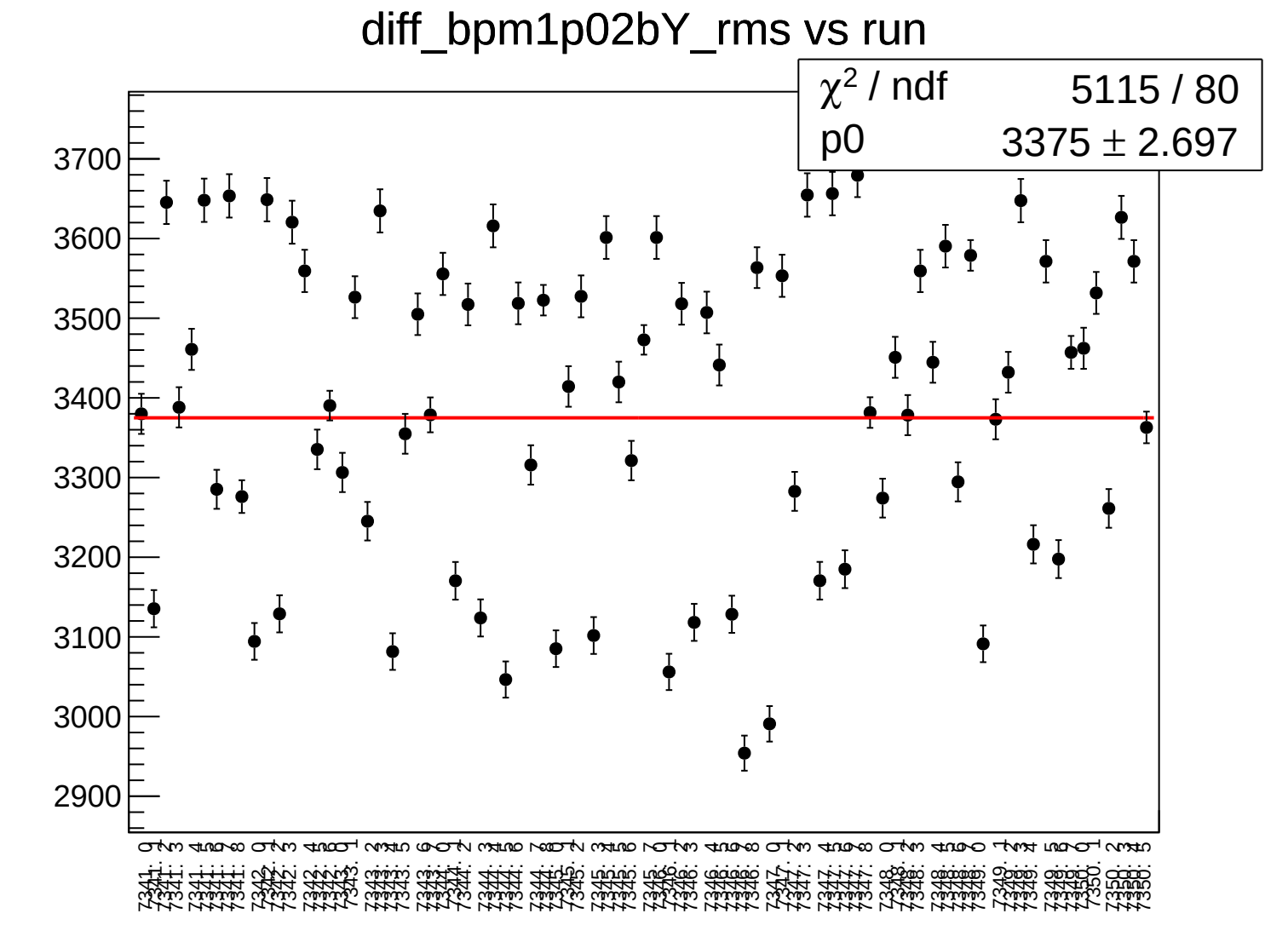

diff_bpm1p02bX_mean vs run
χ² / ndf 76.29 / 80
p0 0.409 ± 1.209
pull
Entries 81
Mean −34.17
Std Dev 81.34

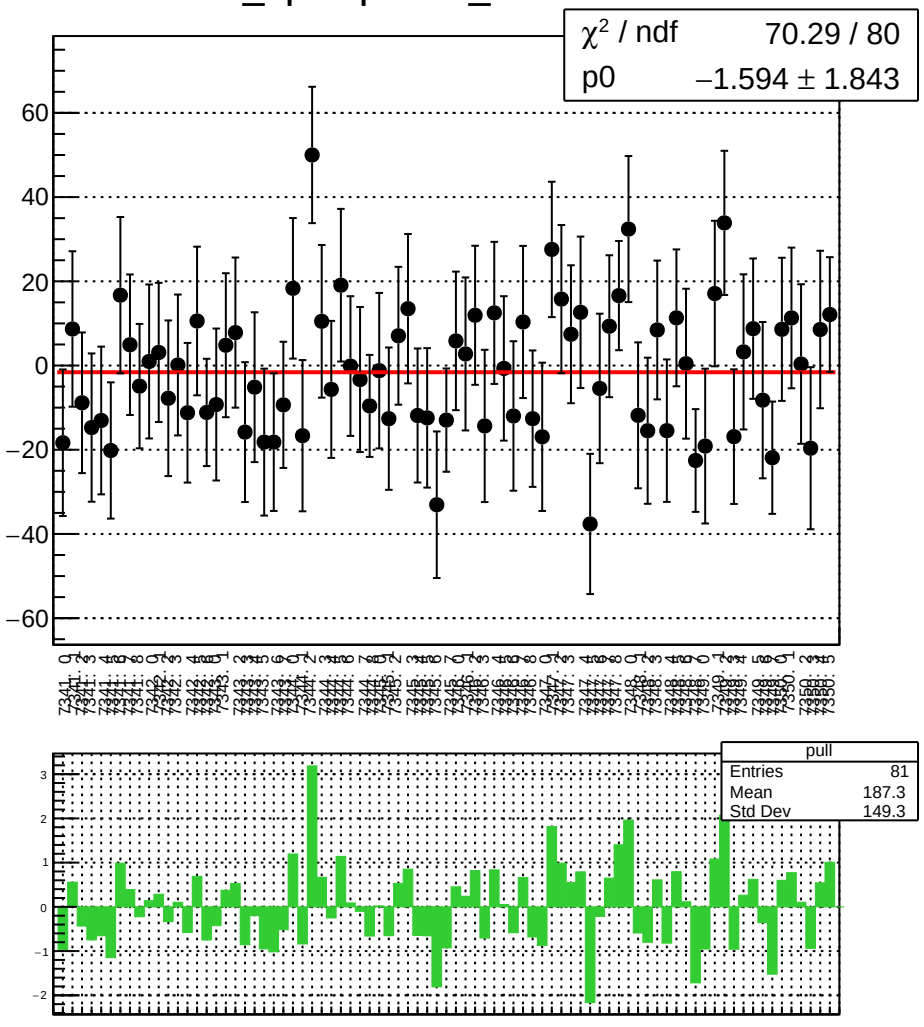

pull1D
Entries 81
Mean 0.02561
Std Dev 0.9701

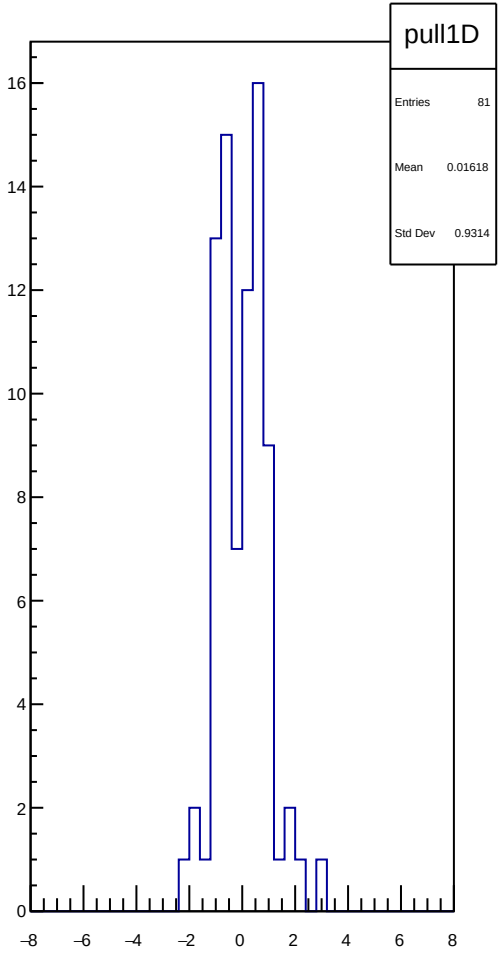

diff_bpm1p02bX_rms vs run
χ² / ndf 2322 / 80
p0 1071 ± 0.8551
1180
1160
1140
1120
1100
1080
1060
1040
1020
1000
980

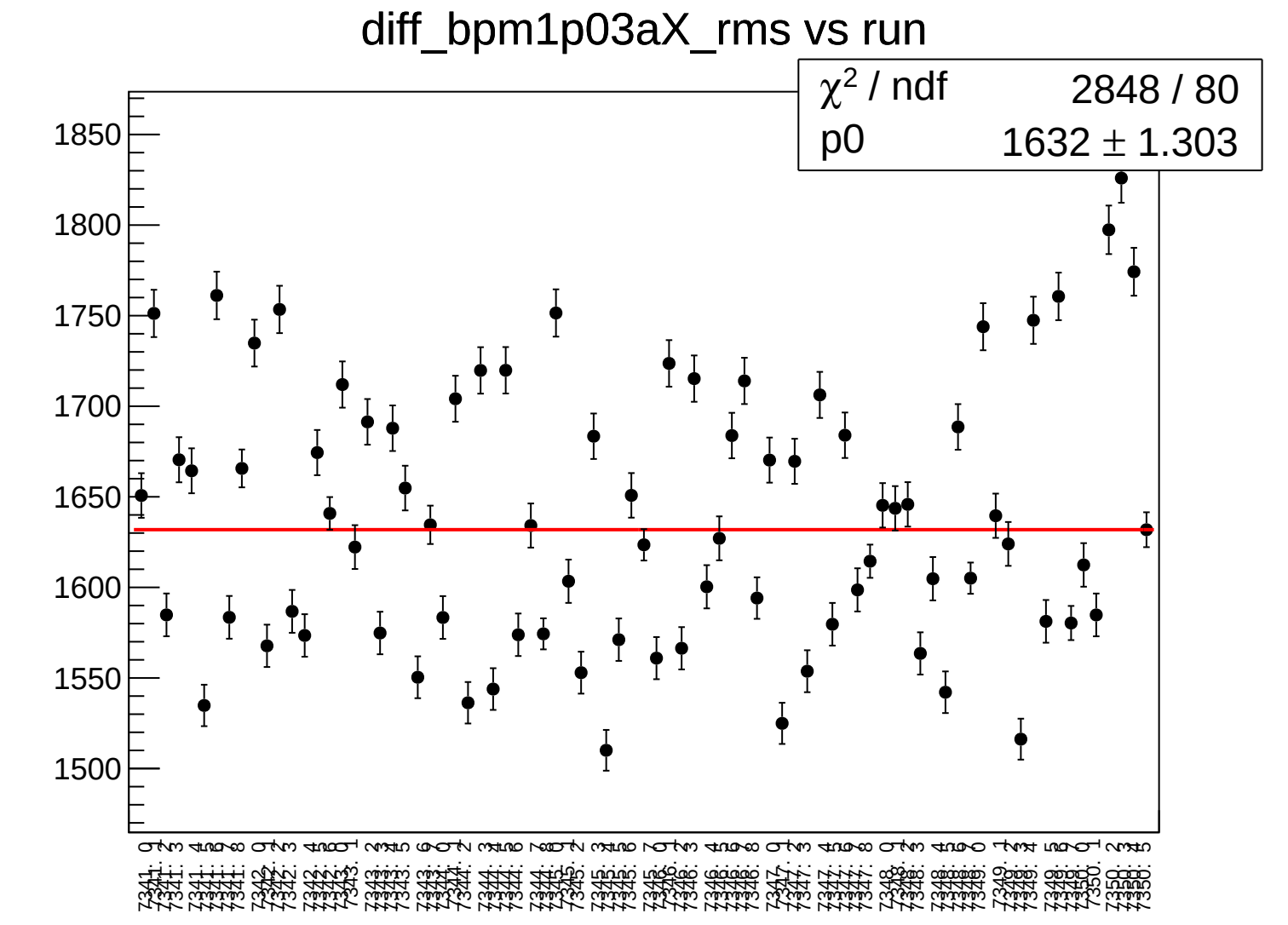

diff_bpm1p02bY_mean vs run
χ² / ndf 59.73 / 80
p0 −6.428 ± 3.814
pull
Entries 81
Mean 443.7
Std Dev 430.3

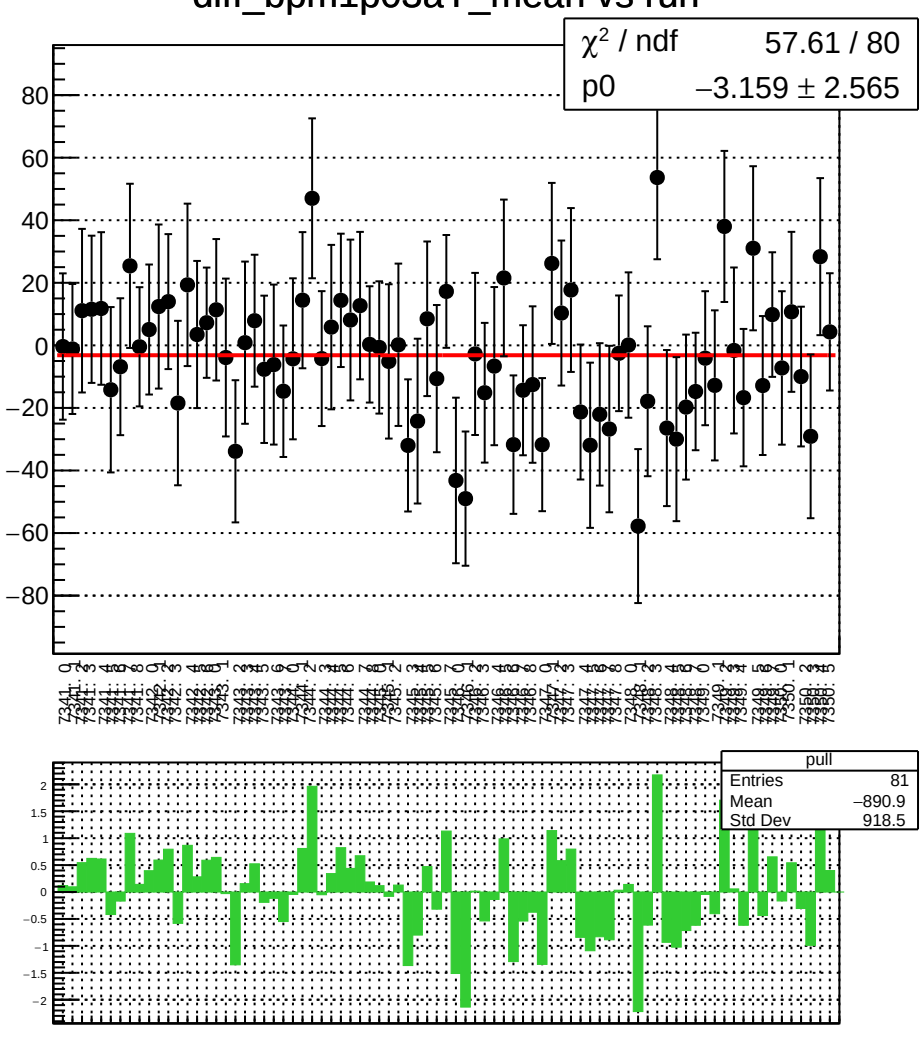

pull1D
Entries 81
Mean −0.004133
Std Dev 0.8587

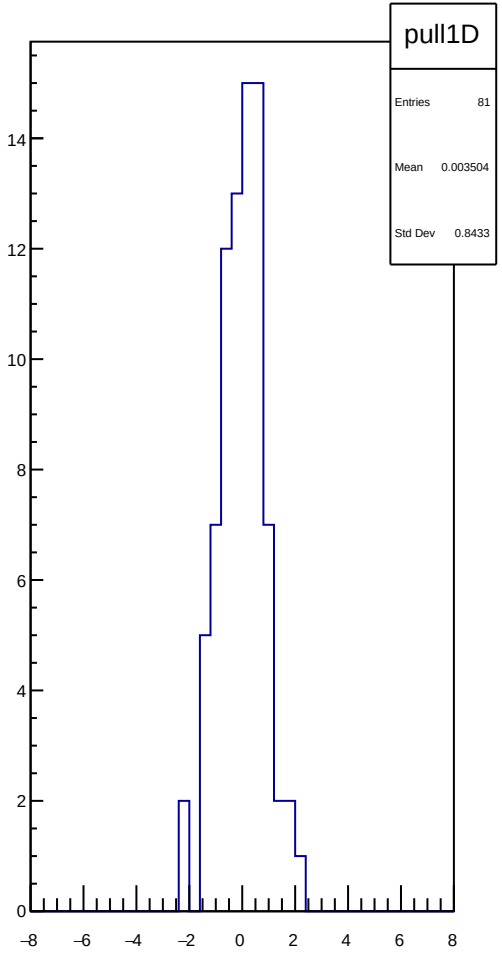

diff_bpm1p02bY_rms vs run
χ^2 / ndf 5115 / 80
p0 3375 ± 2.697
3700
3600
3500
3400
3300
3200
3100
3000
2900

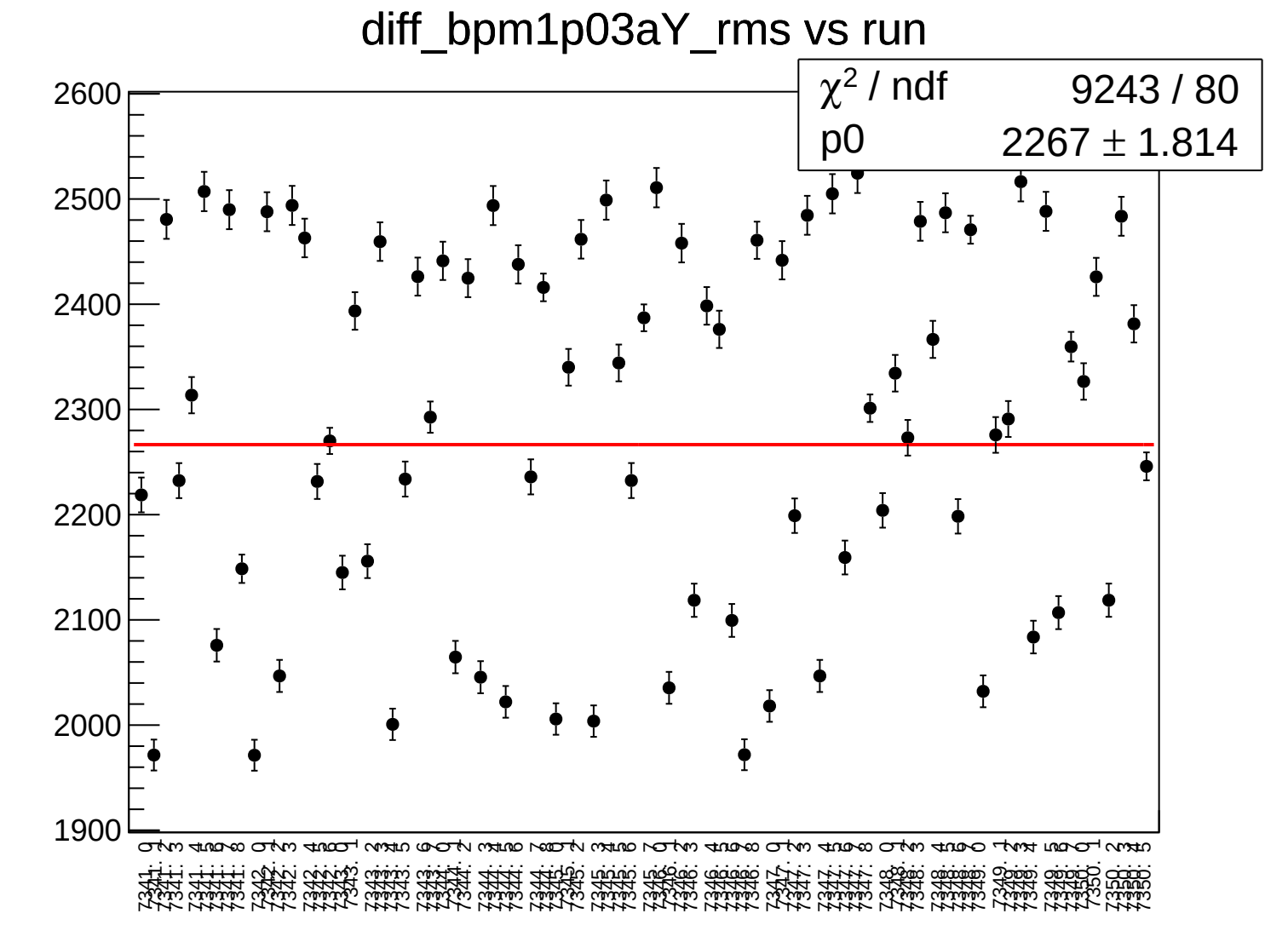

diff_bpm1p03aX_mean vs run
χ² / ndf 70.29 / 80
p0 −1.594 ± 1.843
pull
Entries 81
Mean 187.3
Std Dev 149.3

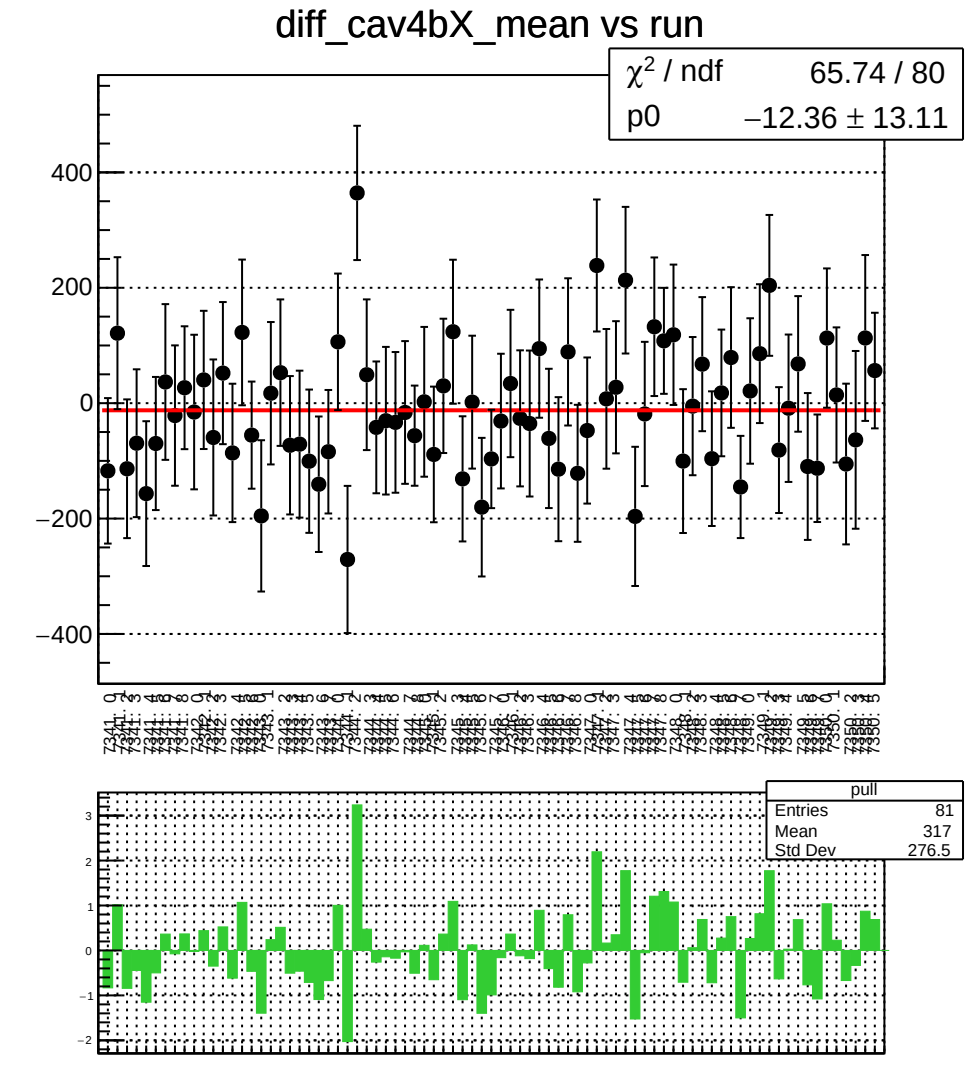

pull1D
Entries 81
Mean 0.01618
Std Dev 0.9314

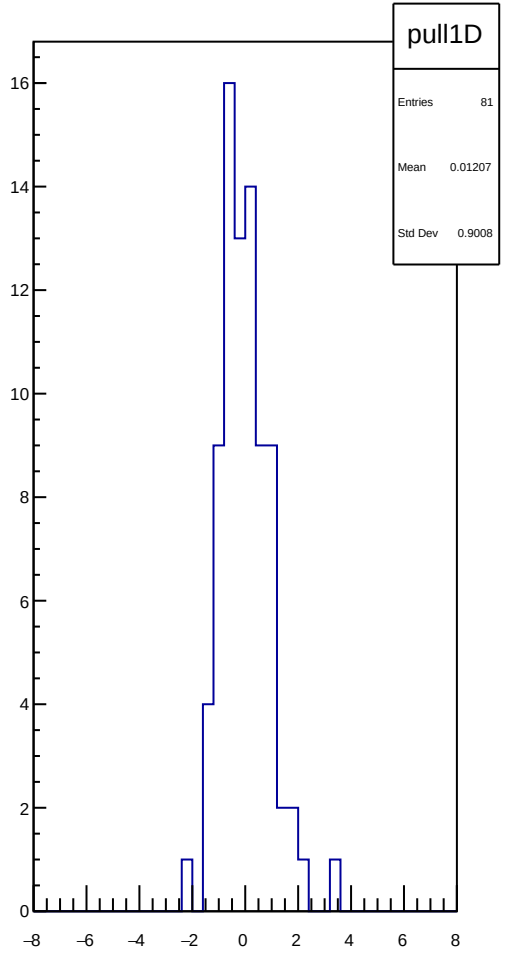

diff_bpm1p03aX_rms vs run
χ² / ndf 2848 / 80
p0 1632 ± 1.303
1850
1800
1750
1700
1650
1600
1550
1500

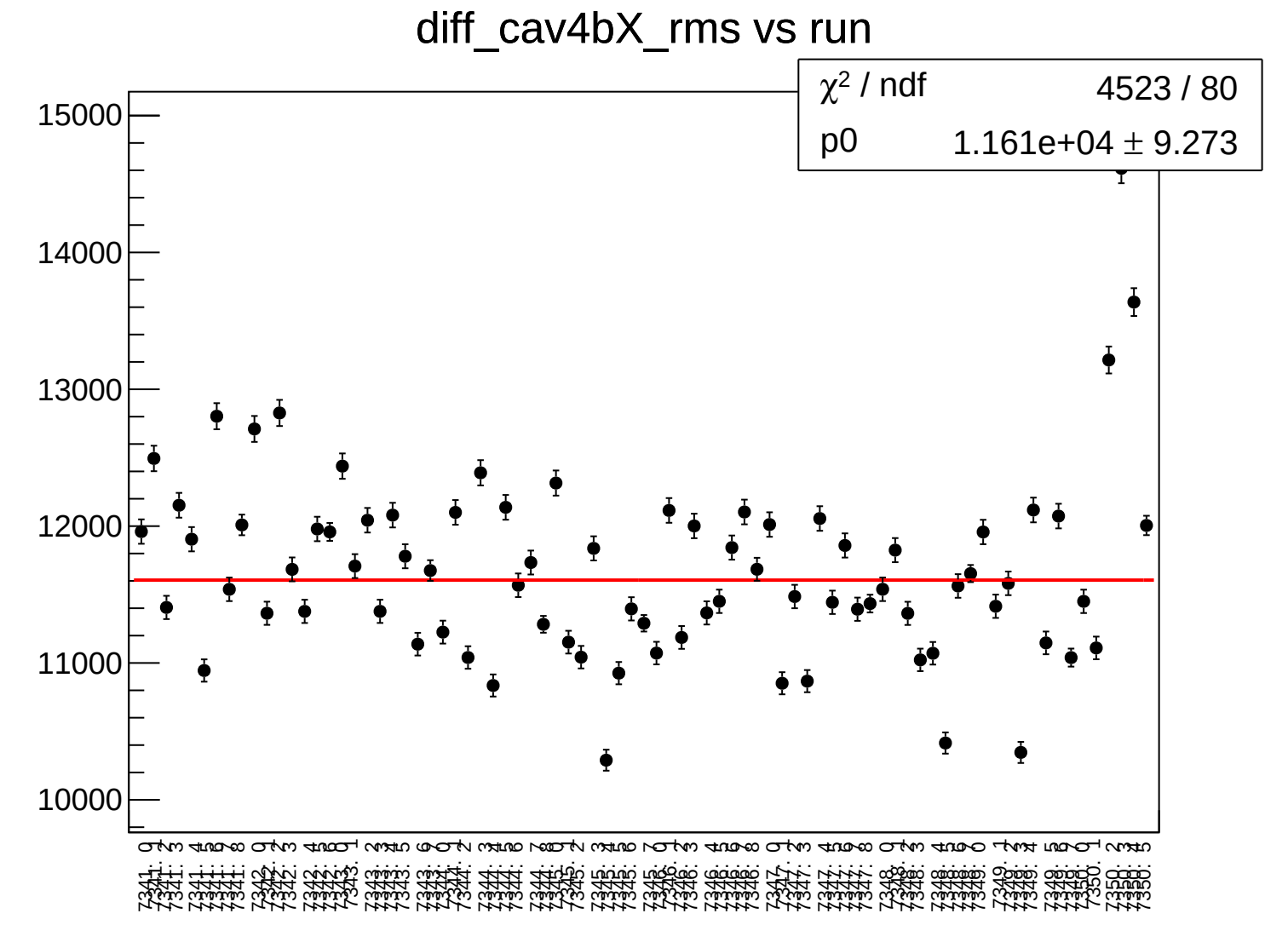

diff_bpm1p03aY_mean vs run
χ² / ndf 57.61 / 80
p0 −3.159 ± 2.565
pull
Entries 81
Mean −890.9
Std Dev 918.5

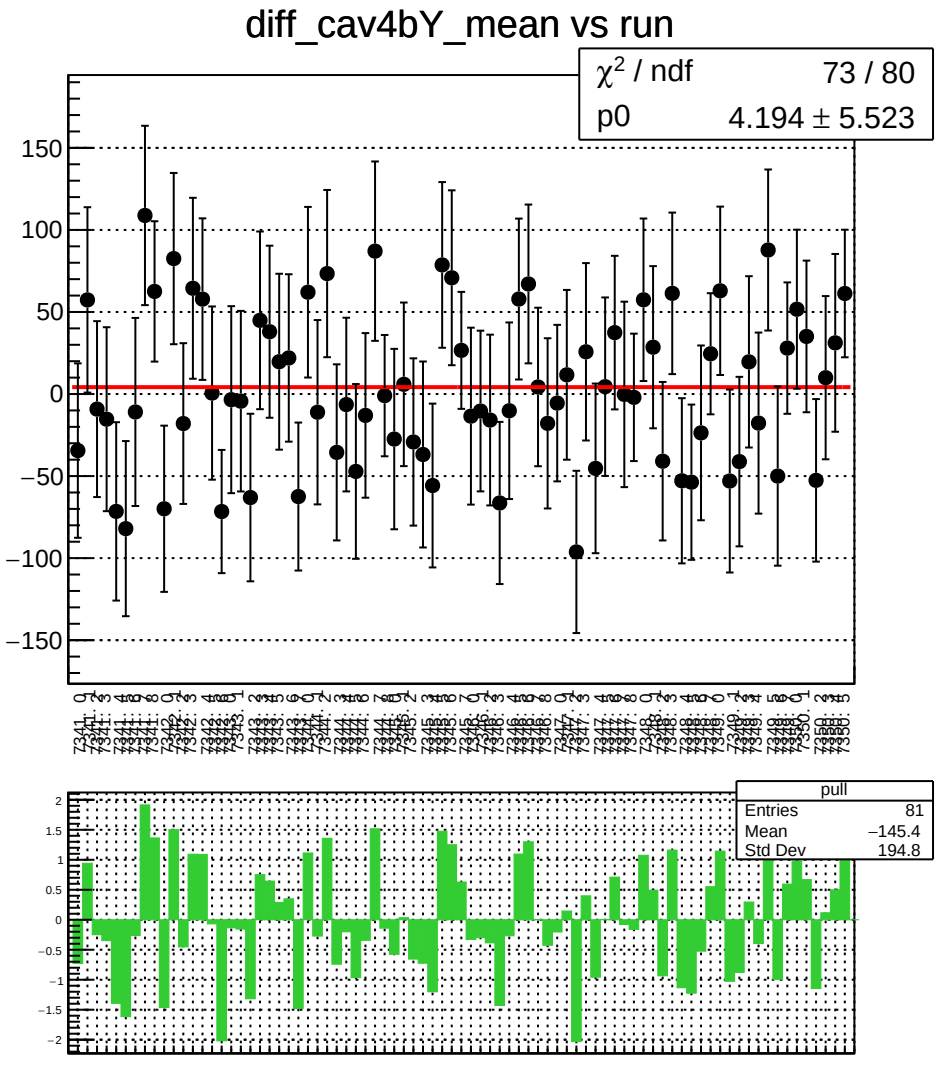

pull1D
Entries 81
Mean 0.003504
Std Dev 0.8433

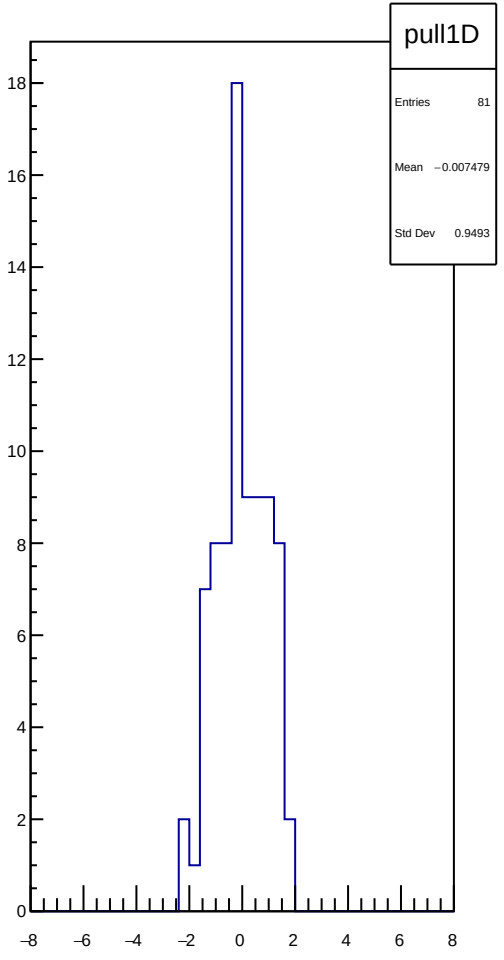

diff_bpm1p03aY_rms vs run
χ² / ndf 9243 / 80
p0 2267 ± 1.814
2600
2500
2400
2300
2200
2100
2000
1900

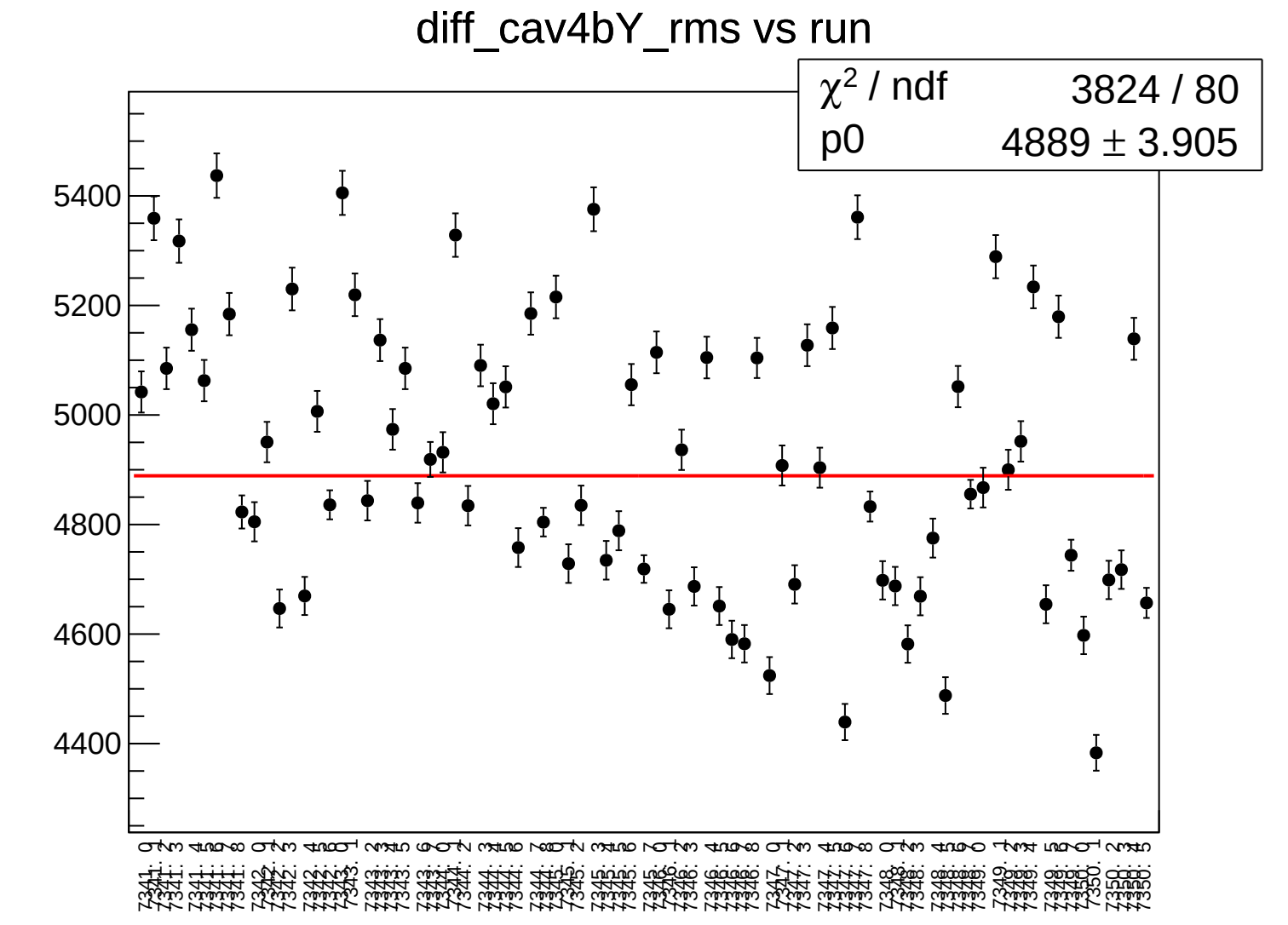

diff_cav4bX_mean vs run
χ² / ndf 65.74 / 80
p0 −12.36 ± 13.11
400
200
0
−200
−400
pull
Entries 81
Mean 317
Std Dev 276.5
3
2
1
0
−1
−2

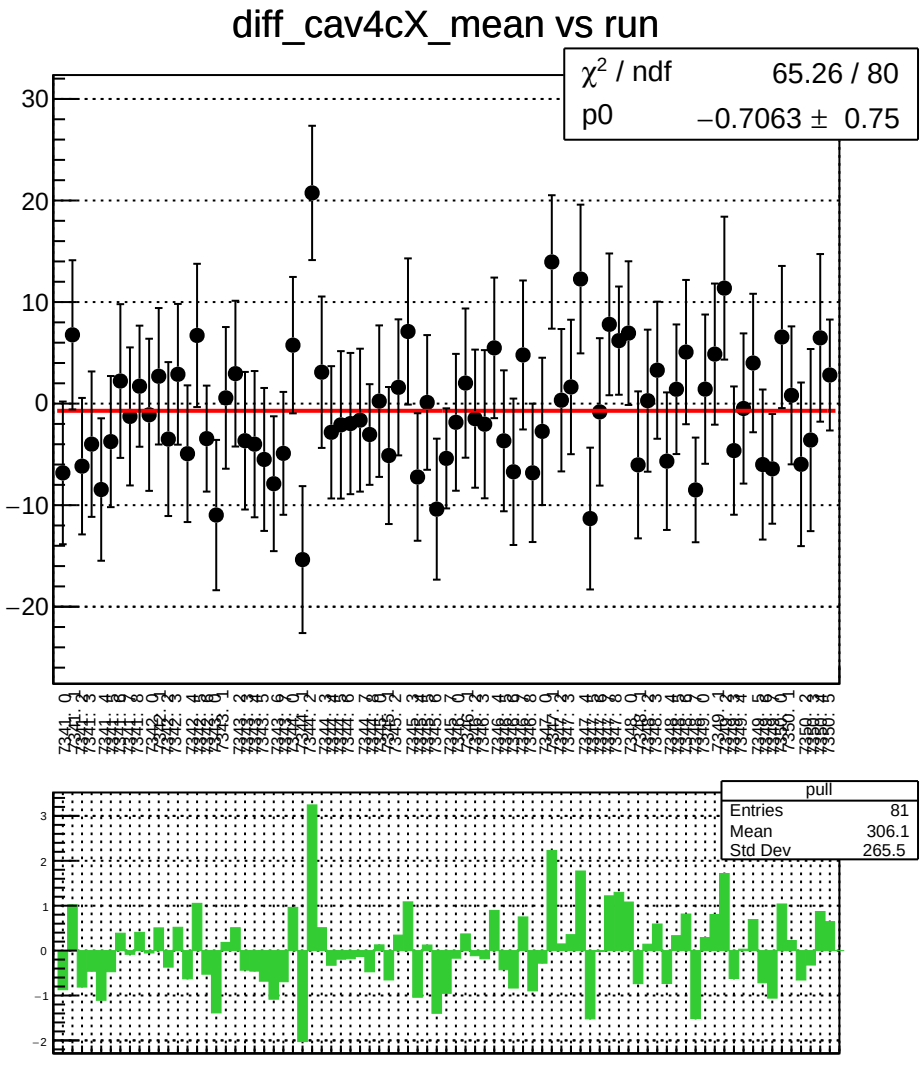

pull1D
Entries 81
Mean 0.01207
Std Dev 0.9008
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

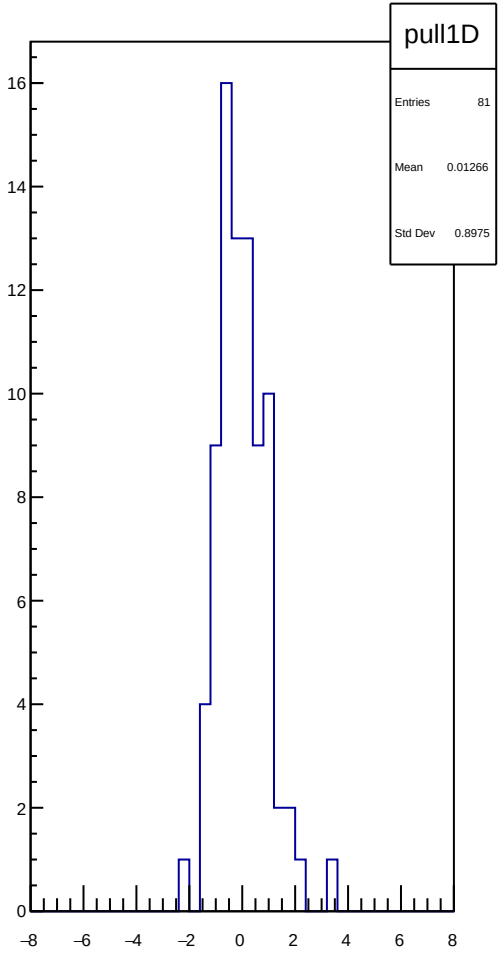

diff_cav4bX_rms vs run
χ² / ndf 4523 / 80
p0 1.161e+04 ± 9.273
15000
14000
13000
12000
11000
10000

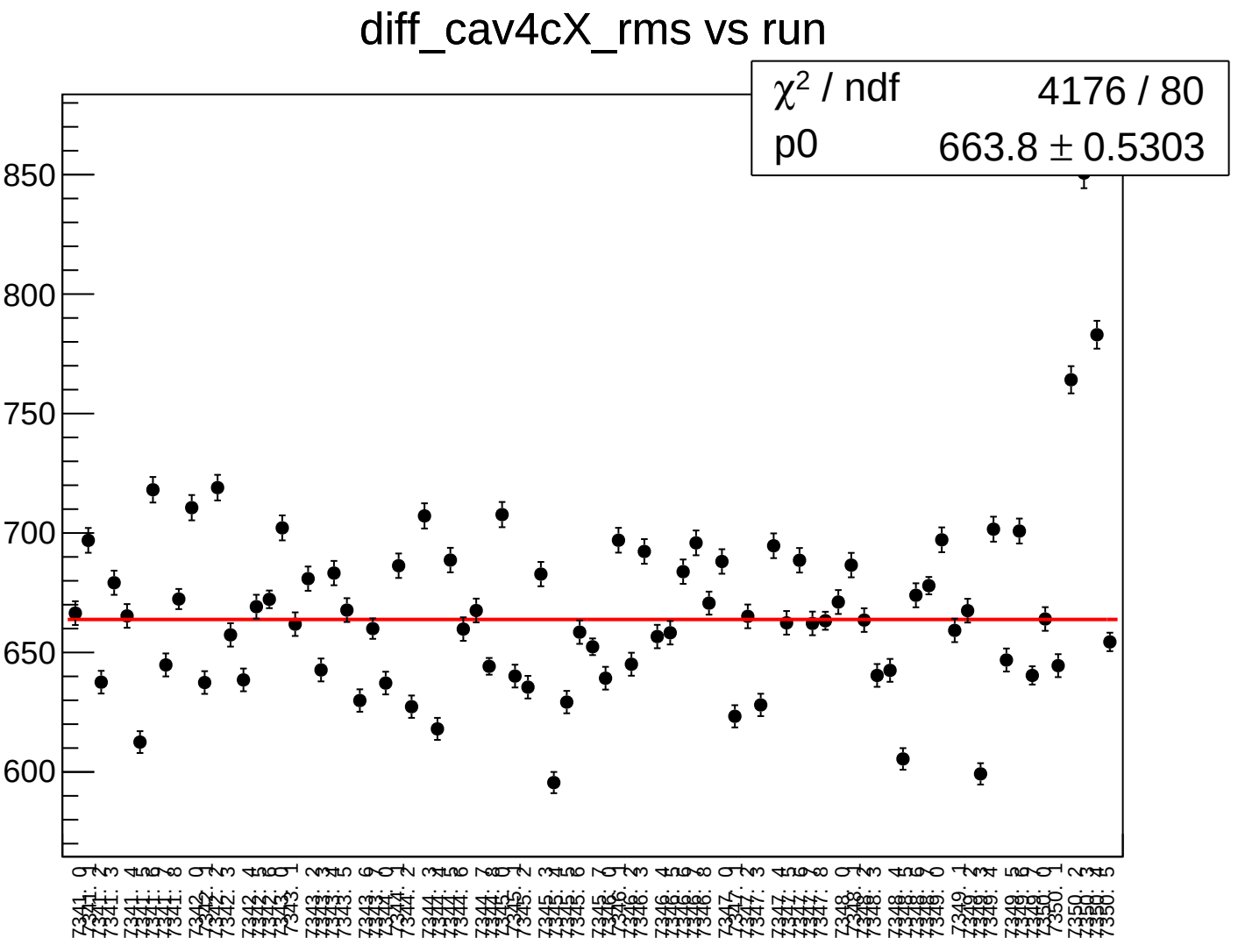

diff_cav4bY_mean vs run
χ^2 / ndf 73 / 80
p0 4.194 ± 5.523
pull
Entries 81
Mean −145.4
Std Dev 194.8

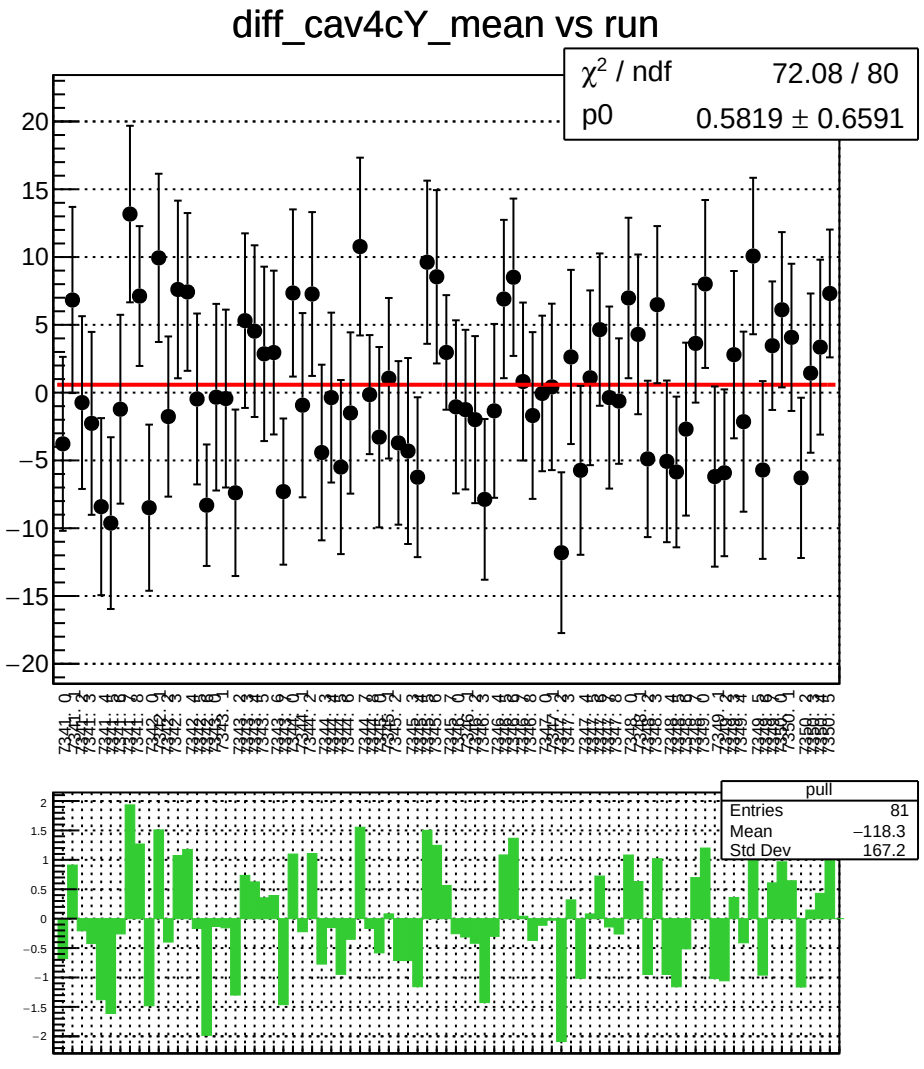

pull1D
Entries 81
Mean −0.007479
Std Dev 0.9493

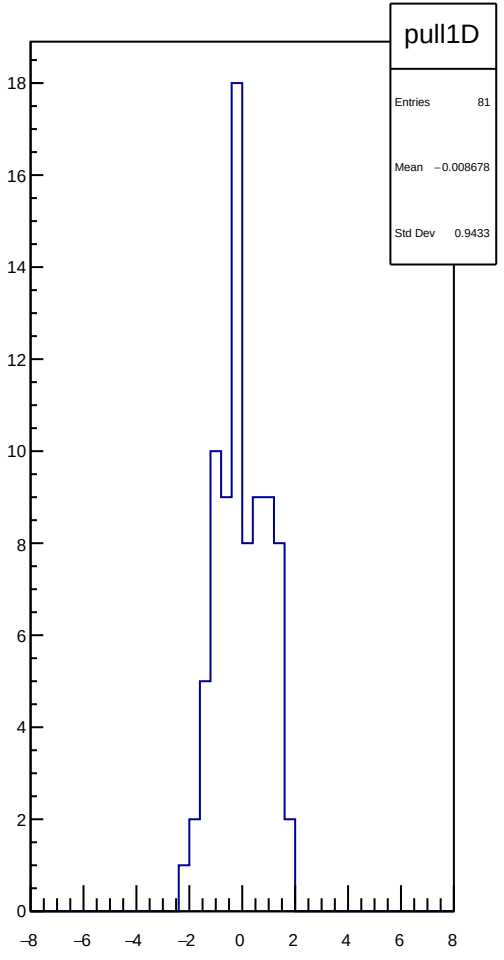

diff_cav4bY_rms vs run
χ^2 / ndf 3824 / 80
p0 4889 ± 3.905
5400
5200
5000
4800
4600
4400

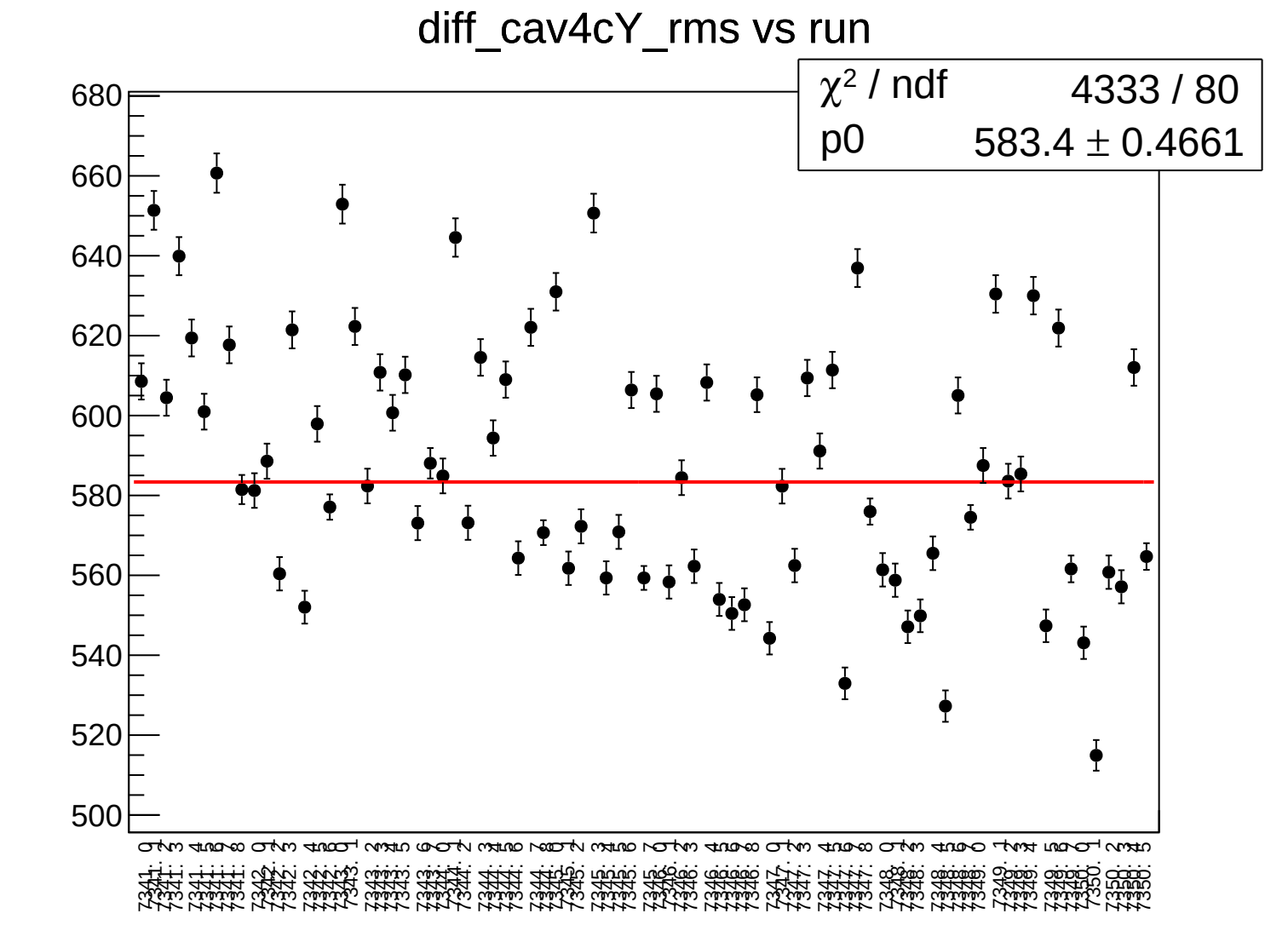

diff_cav4cX_mean vs run
χ² / ndf 65.26 / 80
p0 −0.7063 ± 0.75
pull
Entries 81
Mean 306.1
Std Dev 265.5

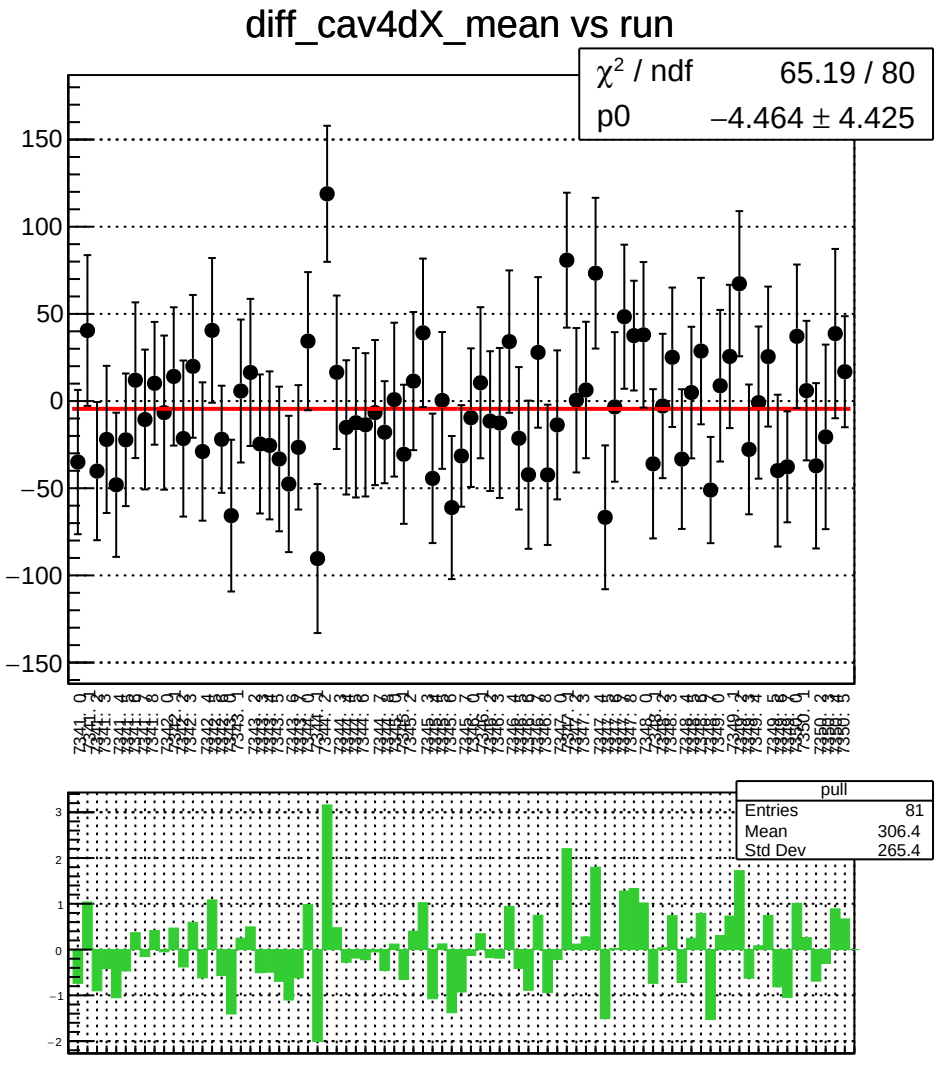

pull1D
Entries 81
Mean 0.01266
Std Dev 0.8975

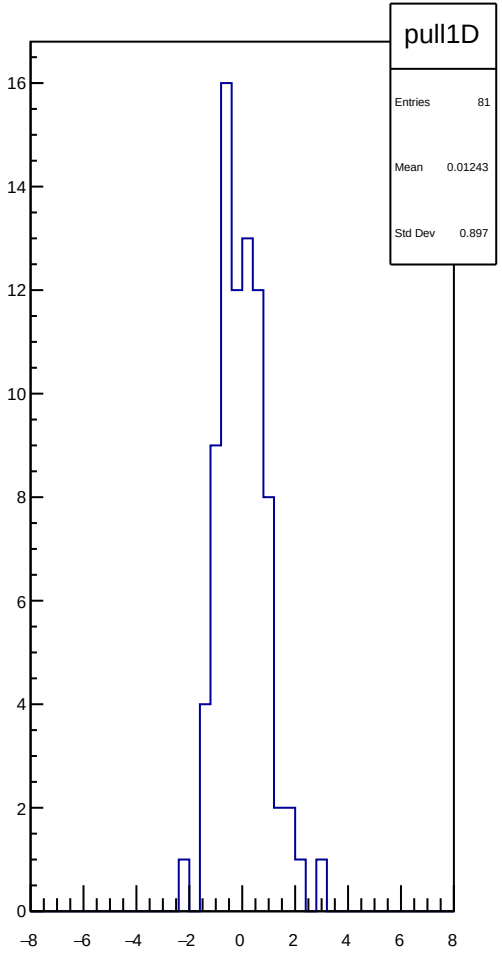

diff_cav4cX_rms vs run
χ² / ndf 4176 / 80
p0 663.8 ± 0.5303
850
800
750
700
650
600

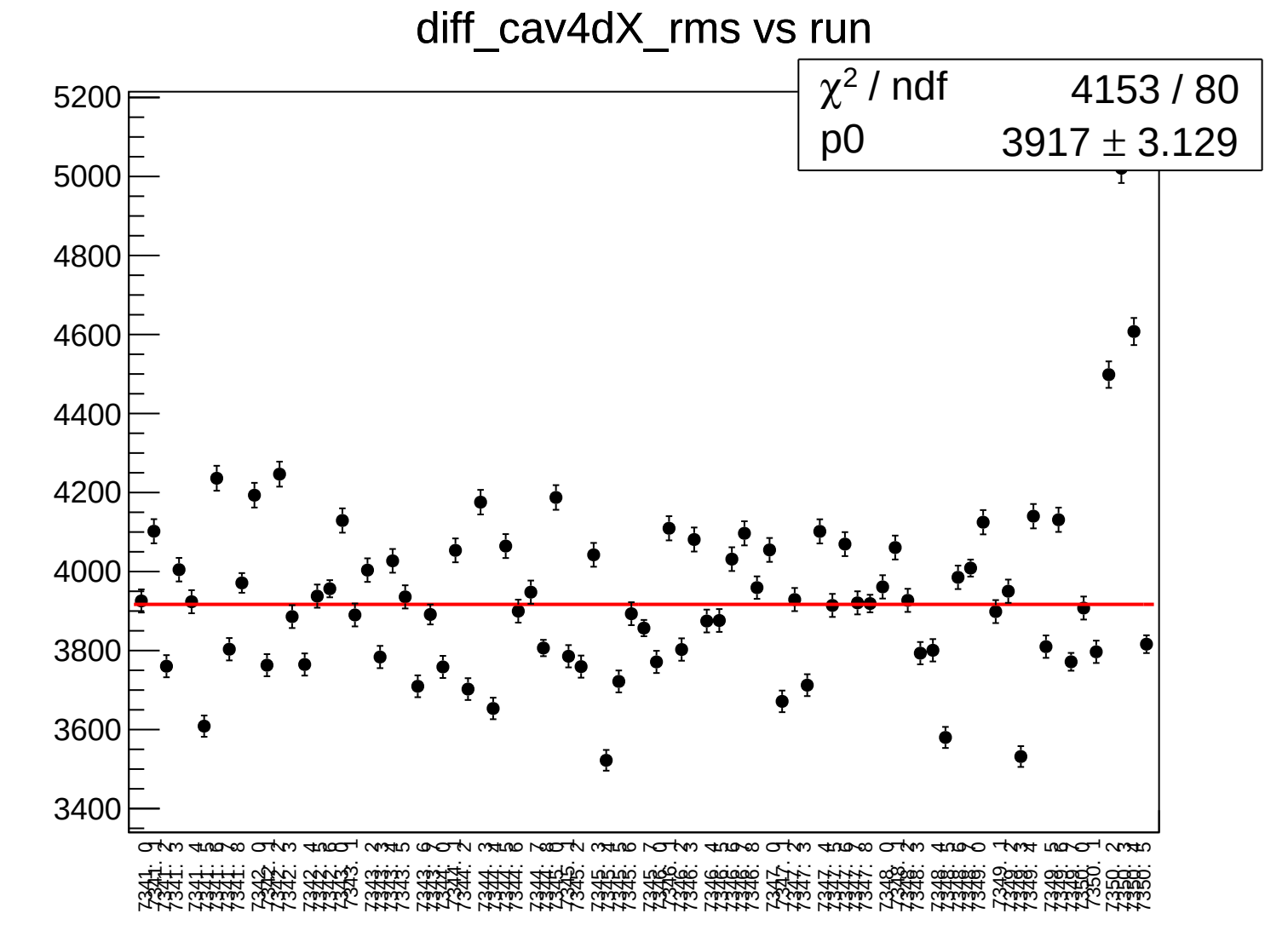

diff_cav4cY_mean vs run
χ² / ndf 72.08 / 80
p0 0.5819 ± 0.6591
pull
Entries 81
Mean −118.3
Std Dev 167.2

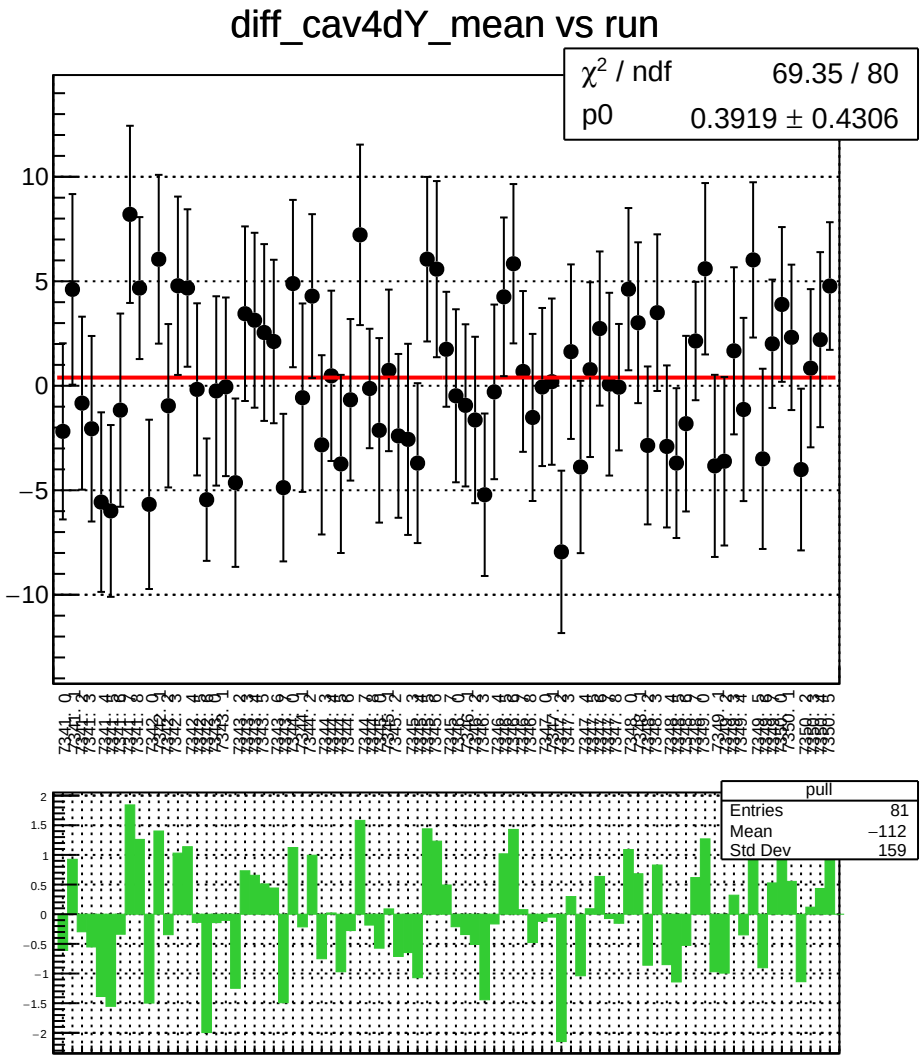

pull1D
Entries 81
Mean −0.008678
Std Dev 0.9433

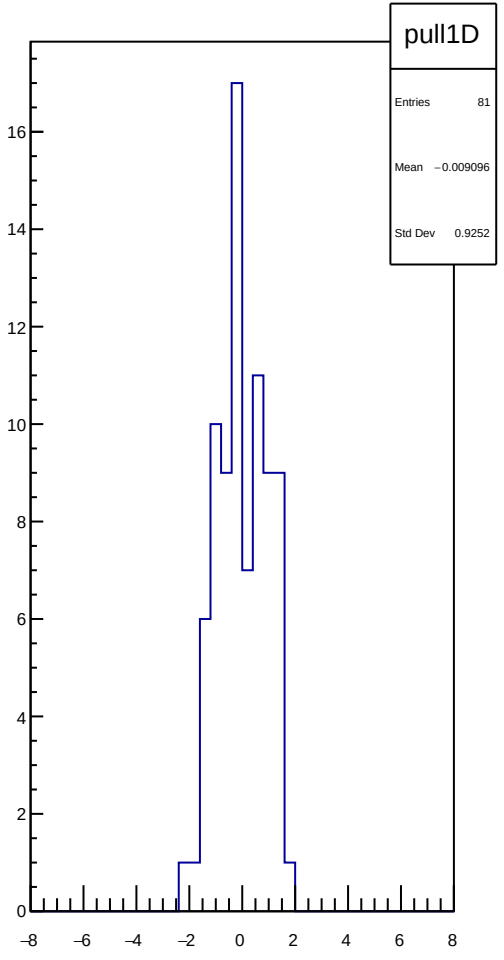

diff_cav4cY_rms vs run
χ² / ndf 4333 / 80
p0 583.4 ± 0.4661
680
660
640
620
600
580
560
540
520
500

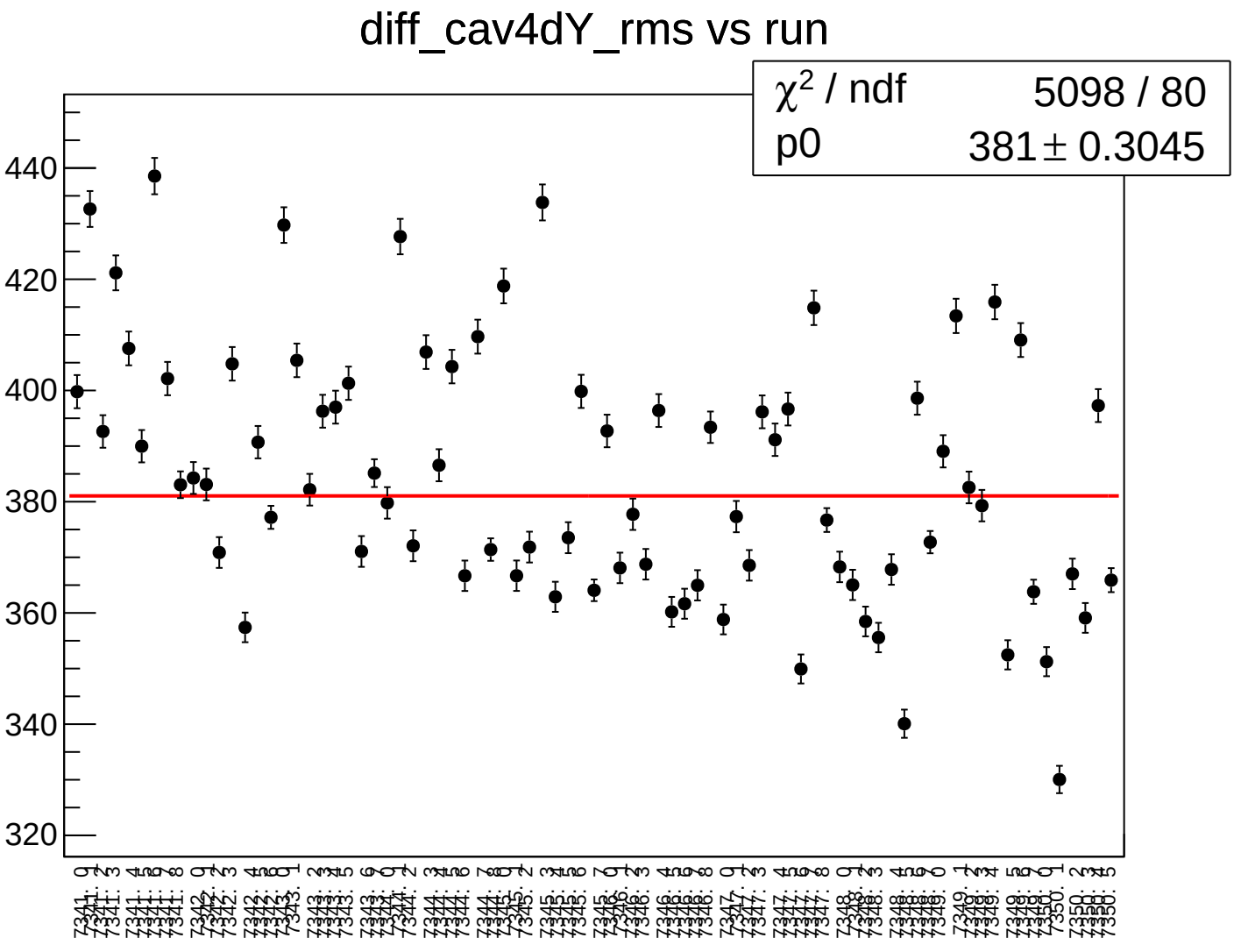

diff_cav4dX_mean vs run
χ² / ndf 65.19 / 80
p0 −4.464 ± 4.425
pull
Entries 81
Mean 306.4
Std Dev 265.4

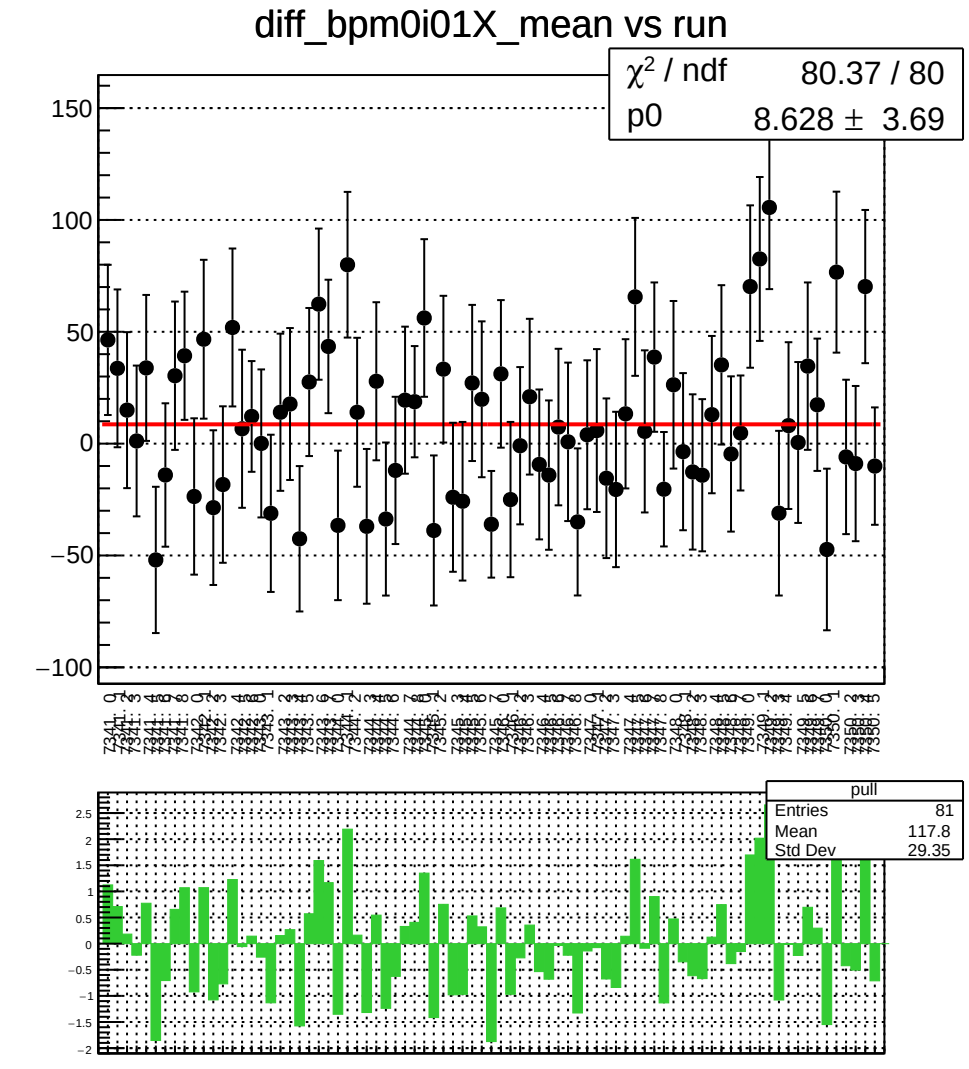

pull1D
Entries 81
Mean 0.01243
Std Dev 0.897

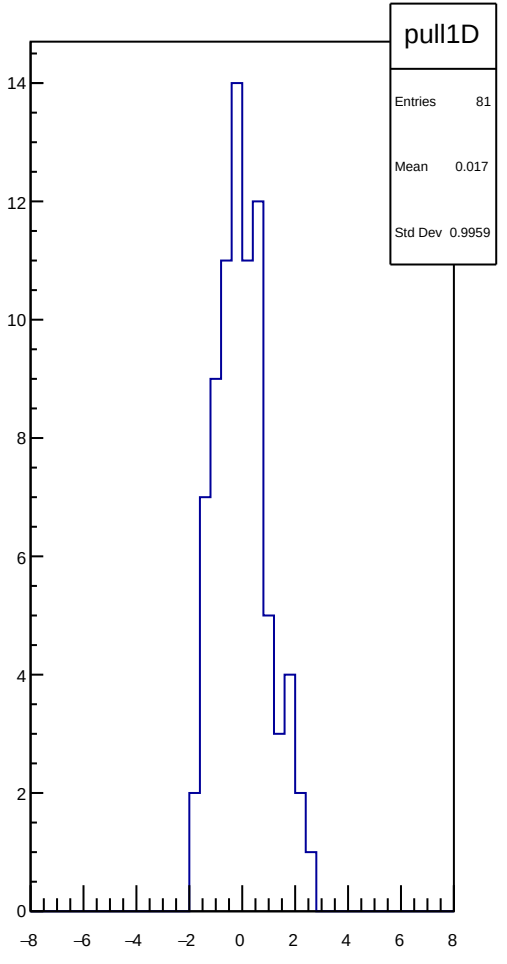

diff_cav4dX_rms vs run
χ^2 / ndf 4153 / 80
p0 3917 ± 3.129
5200
5000
4800
4600
4400
4200
4000
3800
3600
3400

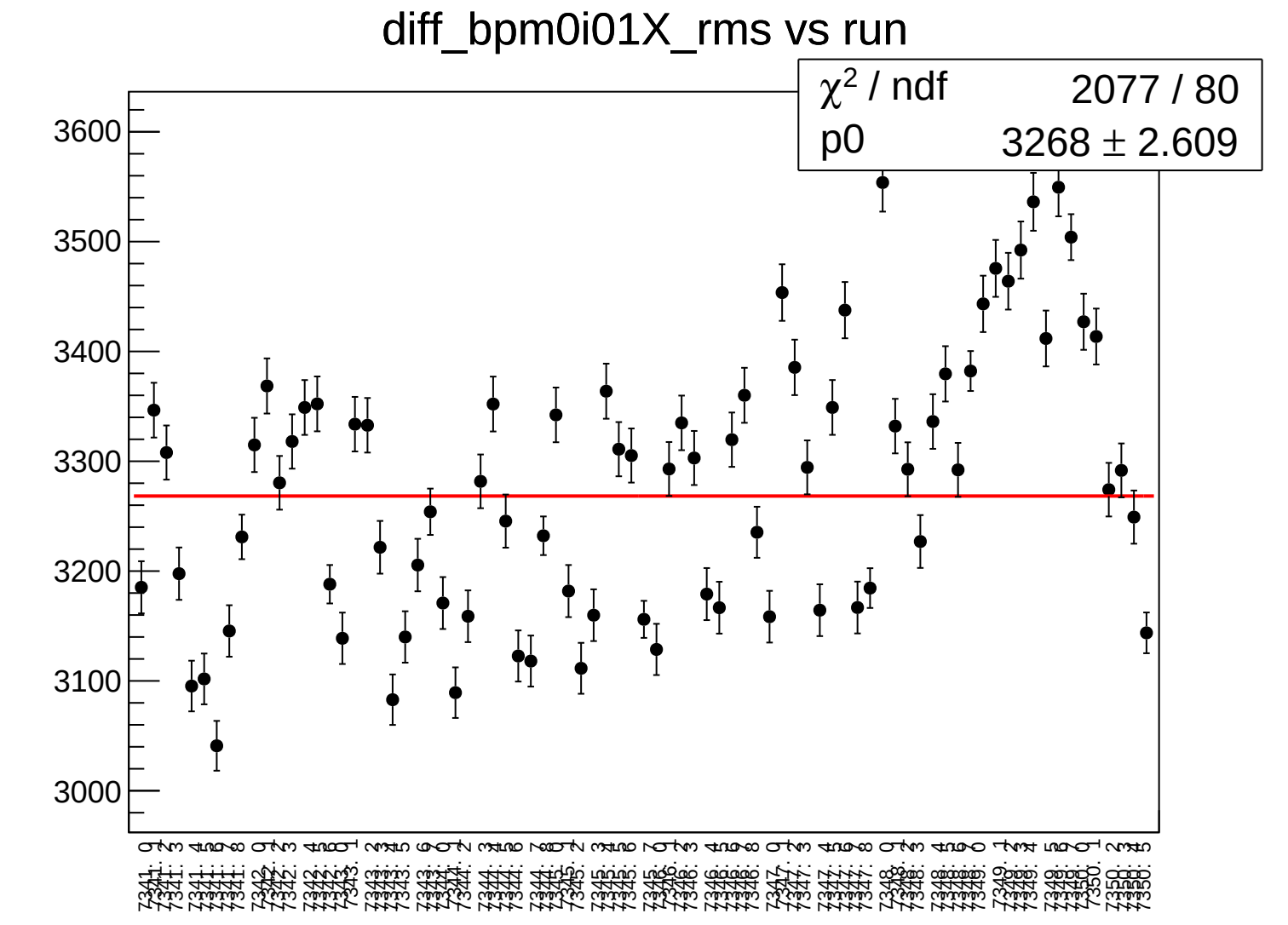

diff_cav4dY_mean vs run
χ^2 / ndf 69.35 / 80
p0 0.3919 ± 0.4306
pull
Entries 81
Mean −112
Std Dev 159

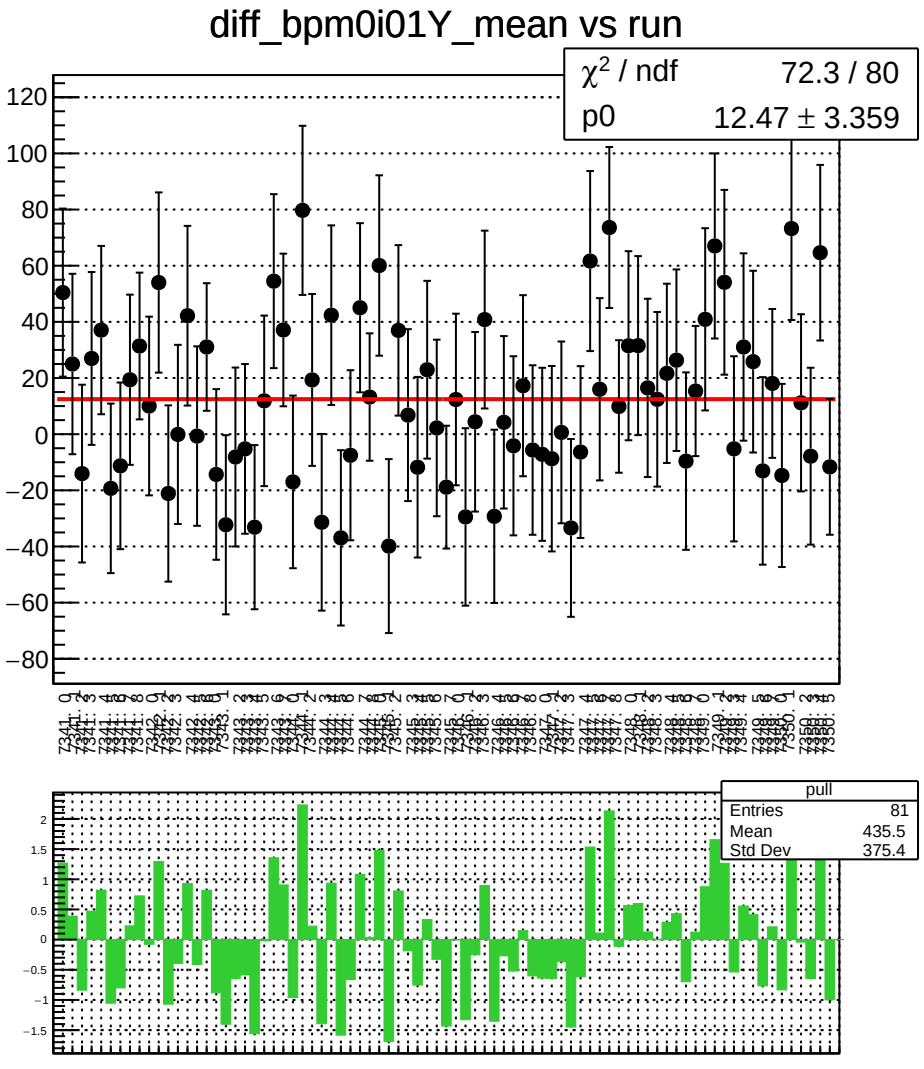

pull1D
Entries 81
Mean −0.009096
Std Dev 0.9252

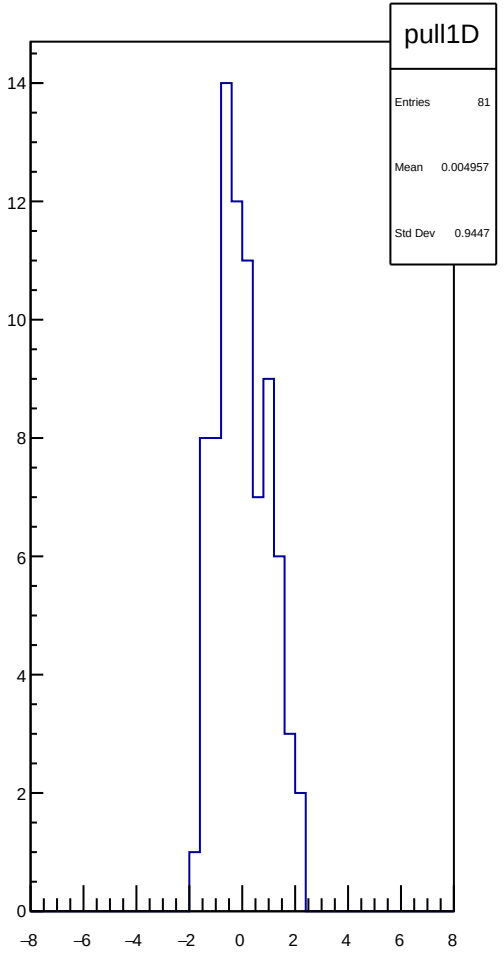

diff_cav4dY_rms vs run
χ^2 / ndf 5098 / 80
p0 381 ± 0.3045
440
420
400
380
360
340
320

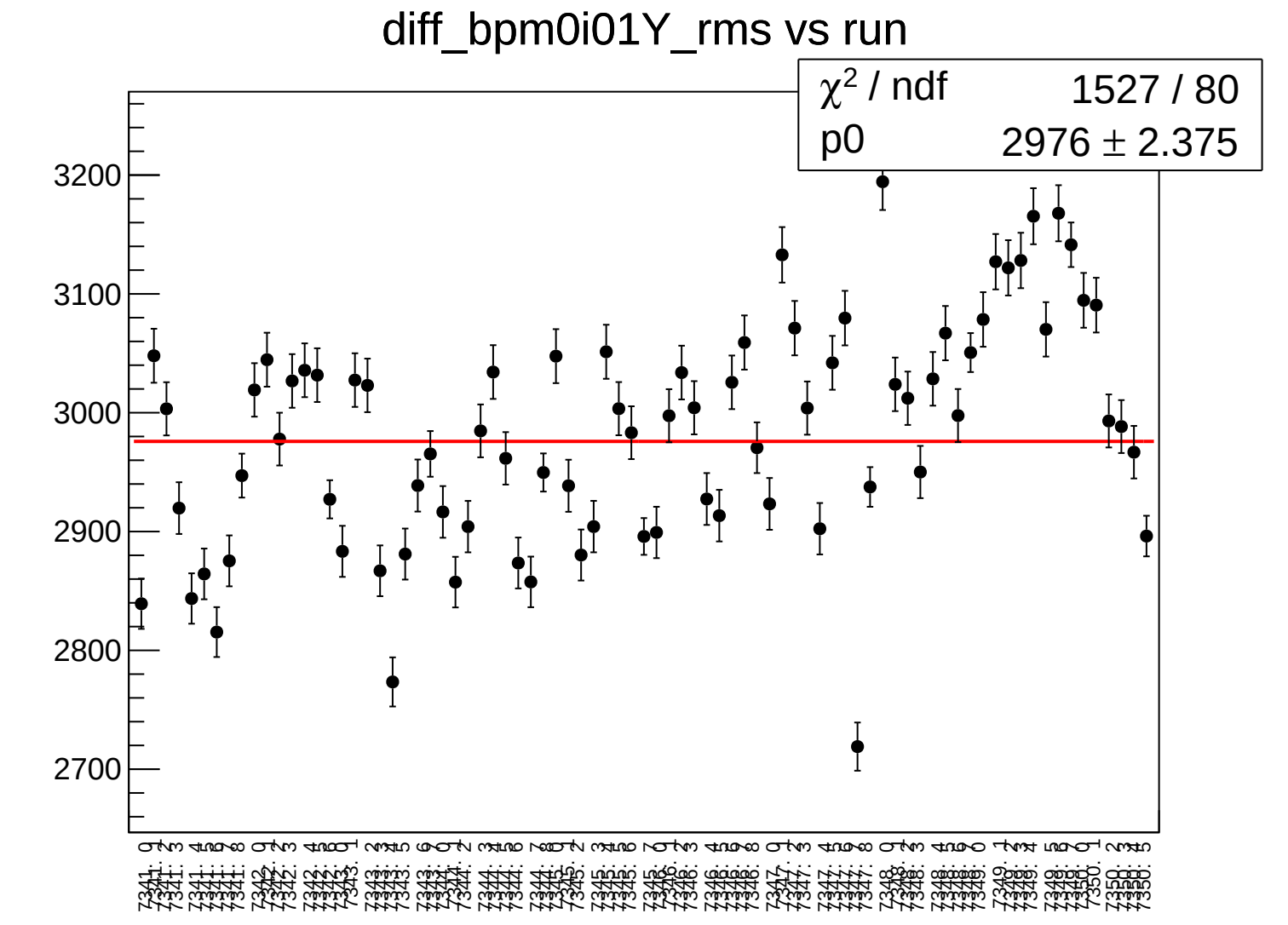

diff_bpm0i01X_mean vs run
χ² / ndf 80.37 / 80
p0 8.628 ± 3.69
150
100
50
0
−50
−100
pull
Entries 81
Mean 117.8
Std Dev 29.35
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

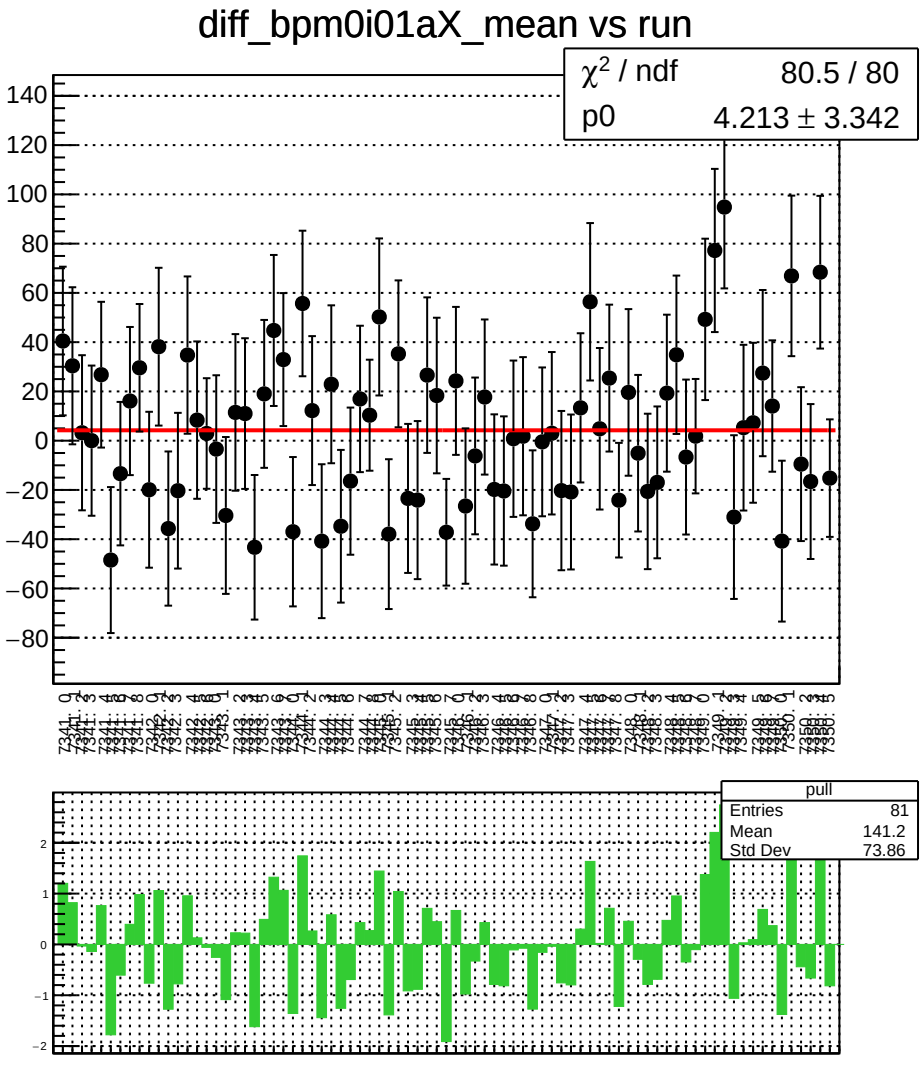

pull1D
Entries 81
Mean 0.017
Std Dev 0.9959
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

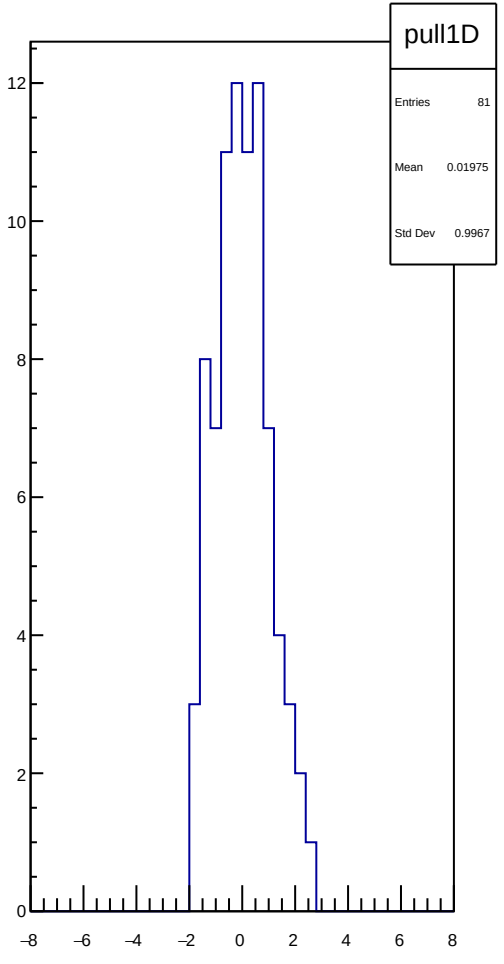

diff_bpm0i01X_rms vs run
χ² / ndf 2077 / 80
p0 3268 ± 2.609
3600
3500
3400
3300
3200
3100
3000

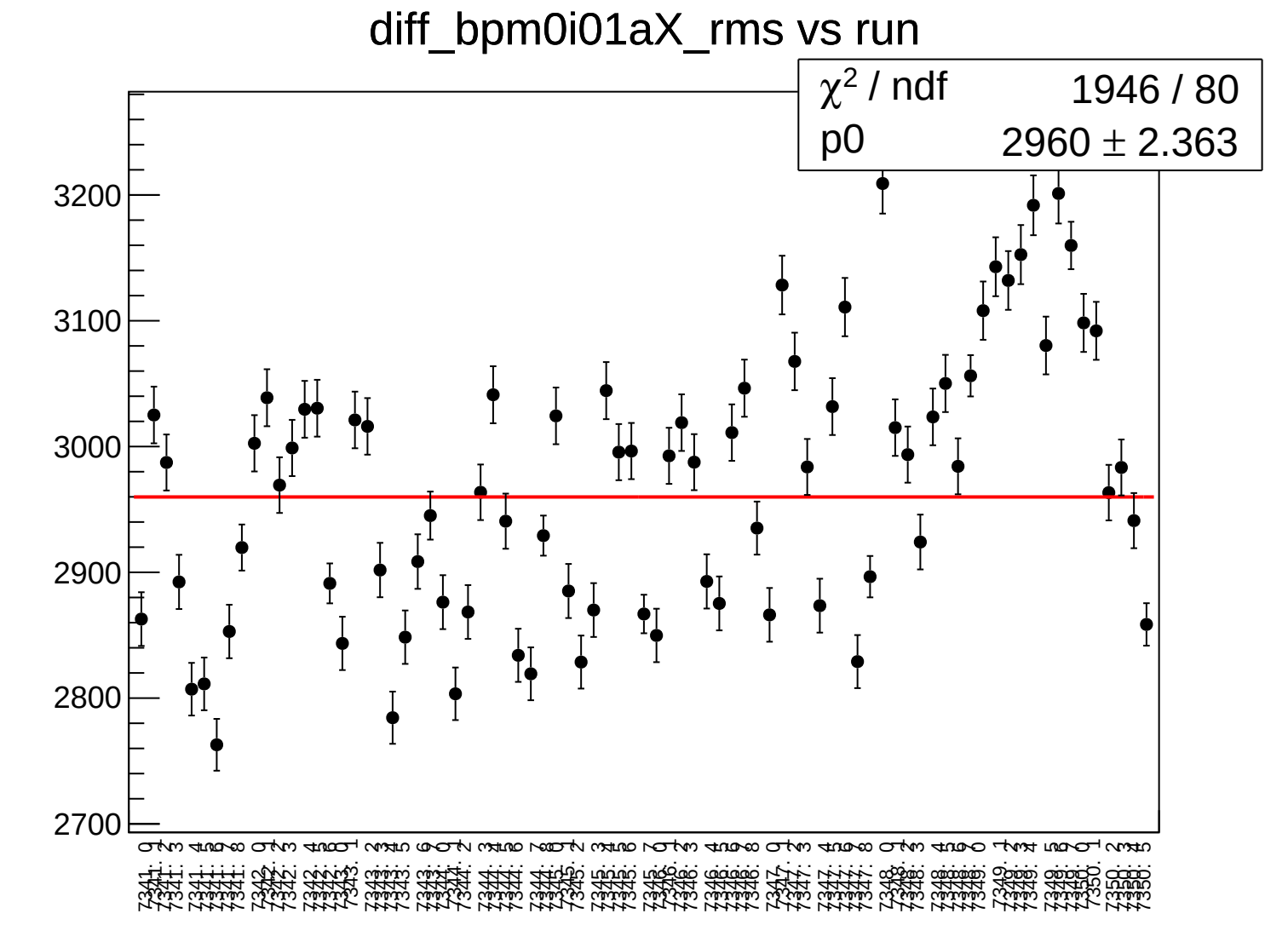

diff_bpm0i01Y_mean vs run
χ^2 / ndf 72.3 / 80
p0 12.47 ± 3.359
pull
Entries 81
Mean 435.5
Std Dev 375.4

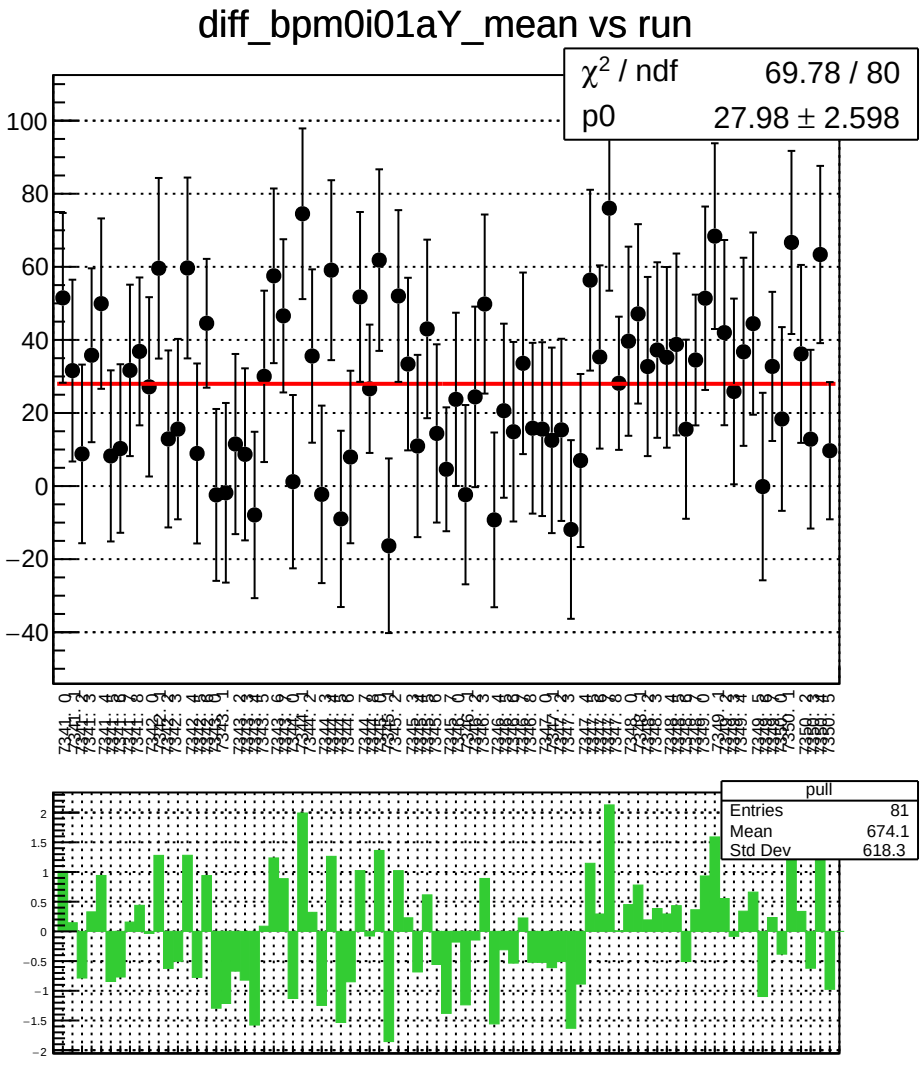

pull1D
Entries 81
Mean 0.004957
Std Dev 0.9447

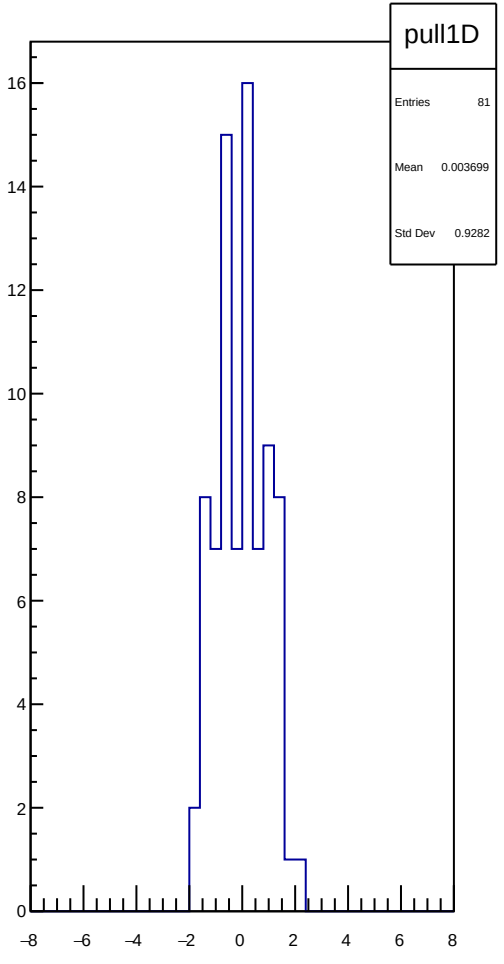

diff_bpm0i01Y_rms vs run
χ^2 / ndf 1527 / 80
p0 2976 ± 2.375
3200
3100
3000
2900
2800
2700

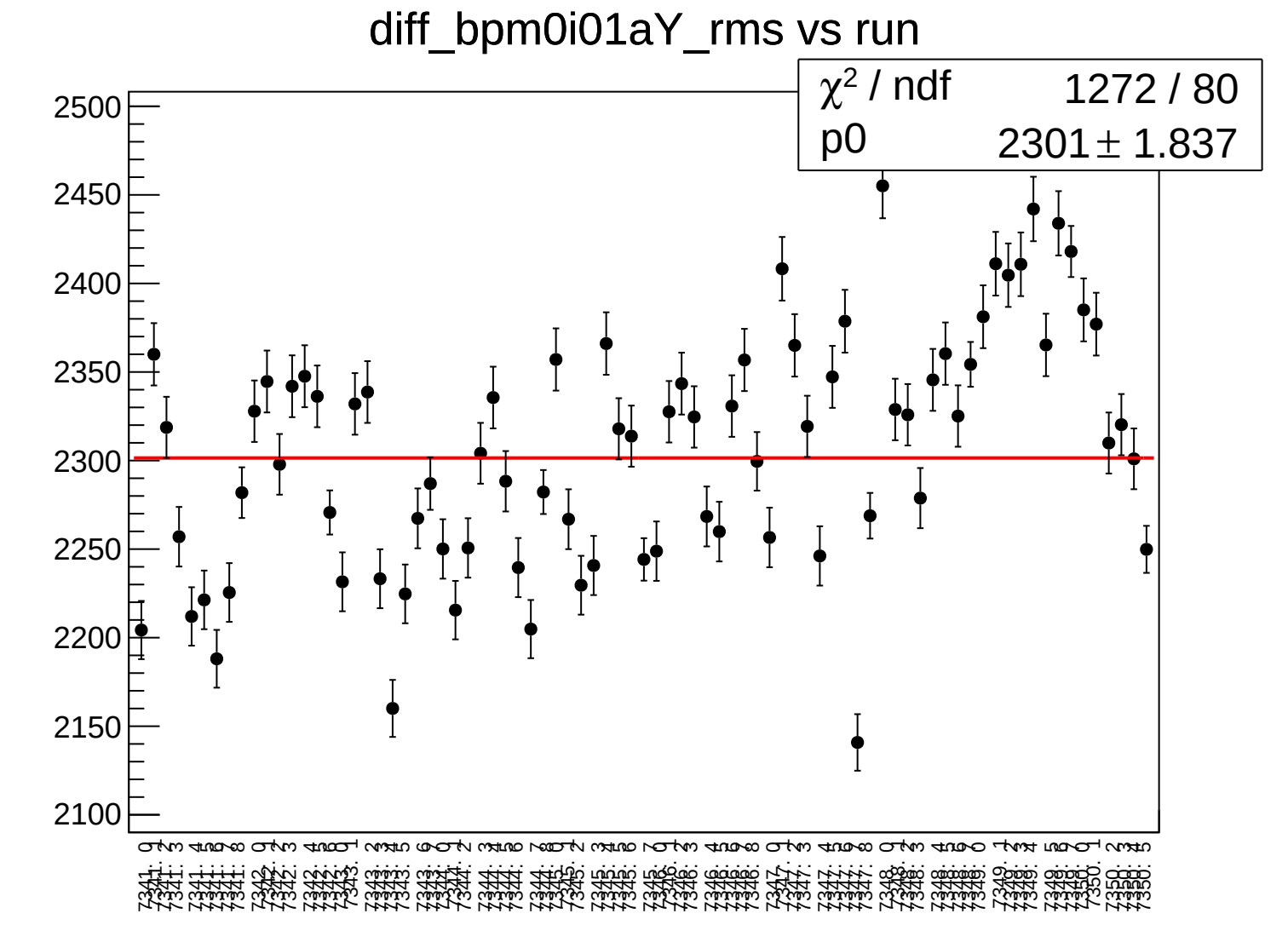

diff_bpm0i01aX_mean vs run
χ² / ndf 80.5 / 80
p0 4.213 ± 3.342
pull
Entries 81
Mean 141.2
Std Dev 73.86

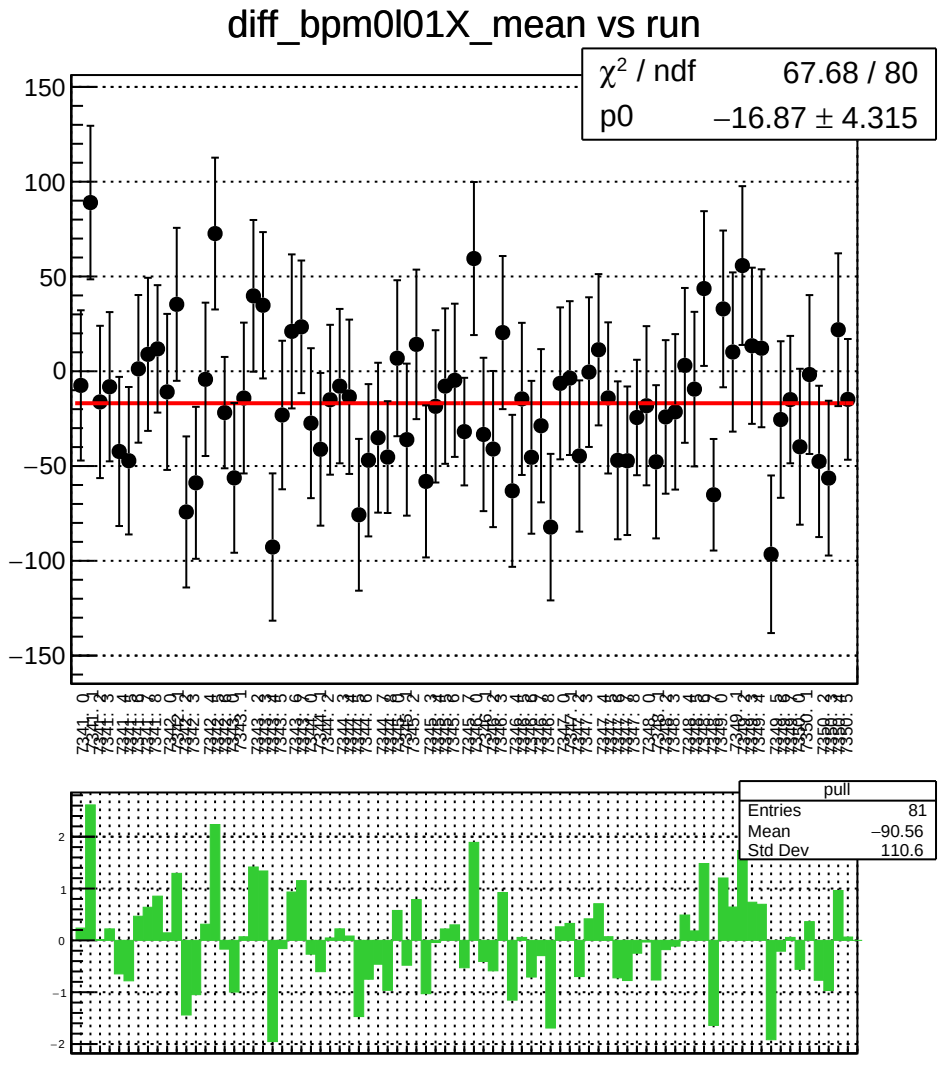

pull1D
Entries 81
Mean 0.01975
Std Dev 0.9967

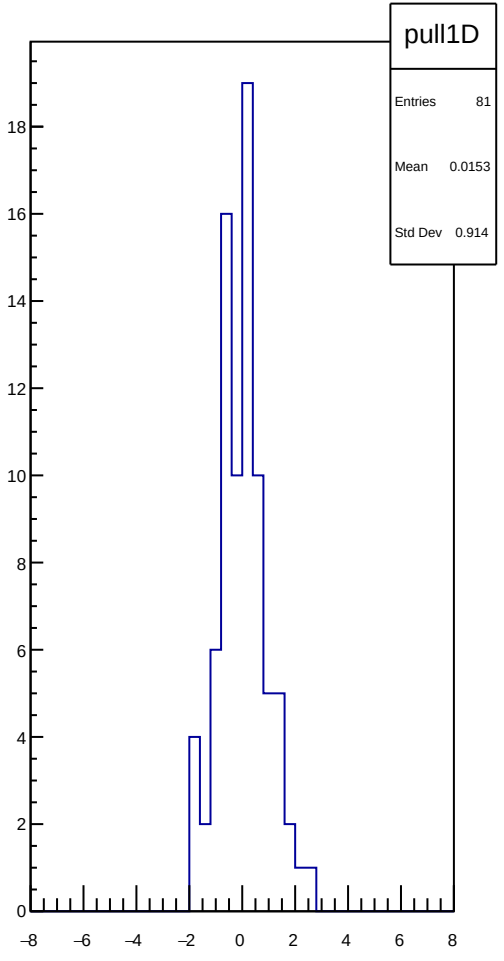

diff_bpm0i01aX_rms vs run
χ² / ndf 1946 / 80
p0 2960 ± 2.363
3200
3100
3000
2900
2800
2700

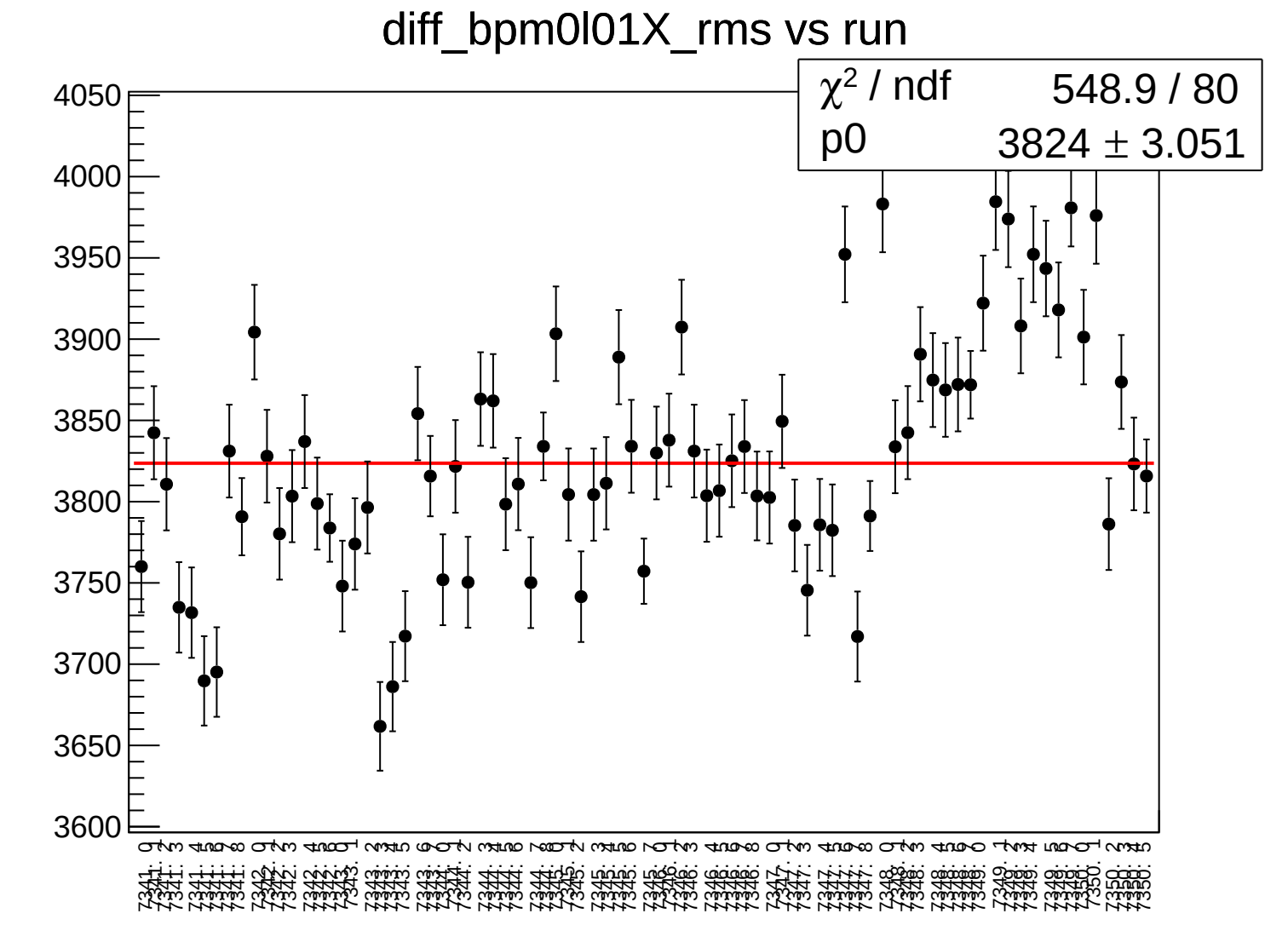

diff_bpm0i01aY_mean vs run
χ² / ndf 69.78 / 80
p0 27.98 ± 2.598
pull
Entries 81
Mean 674.1
Std Dev 618.3

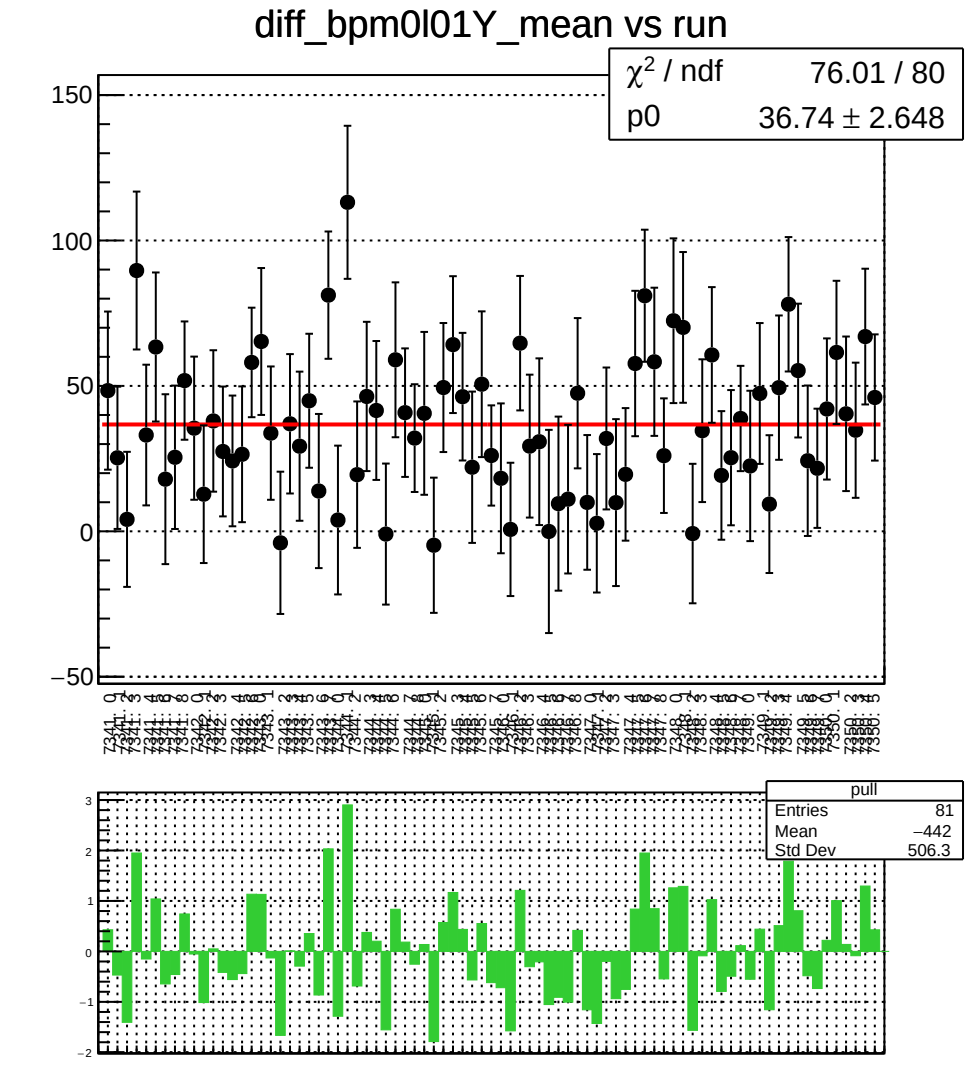

pull1D
Entries 81
Mean 0.003699
Std Dev 0.9282

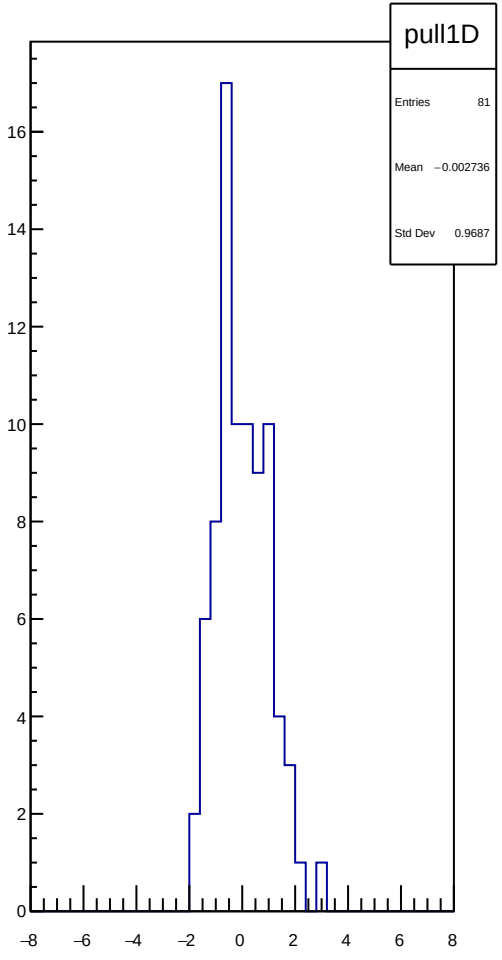

diff_bpm0i01aY_rms vs run
χ² / ndf 1272 / 80
p0 2301 ± 1.837
2500
2450
2400
2350
2300
2250
2200
2150
2100

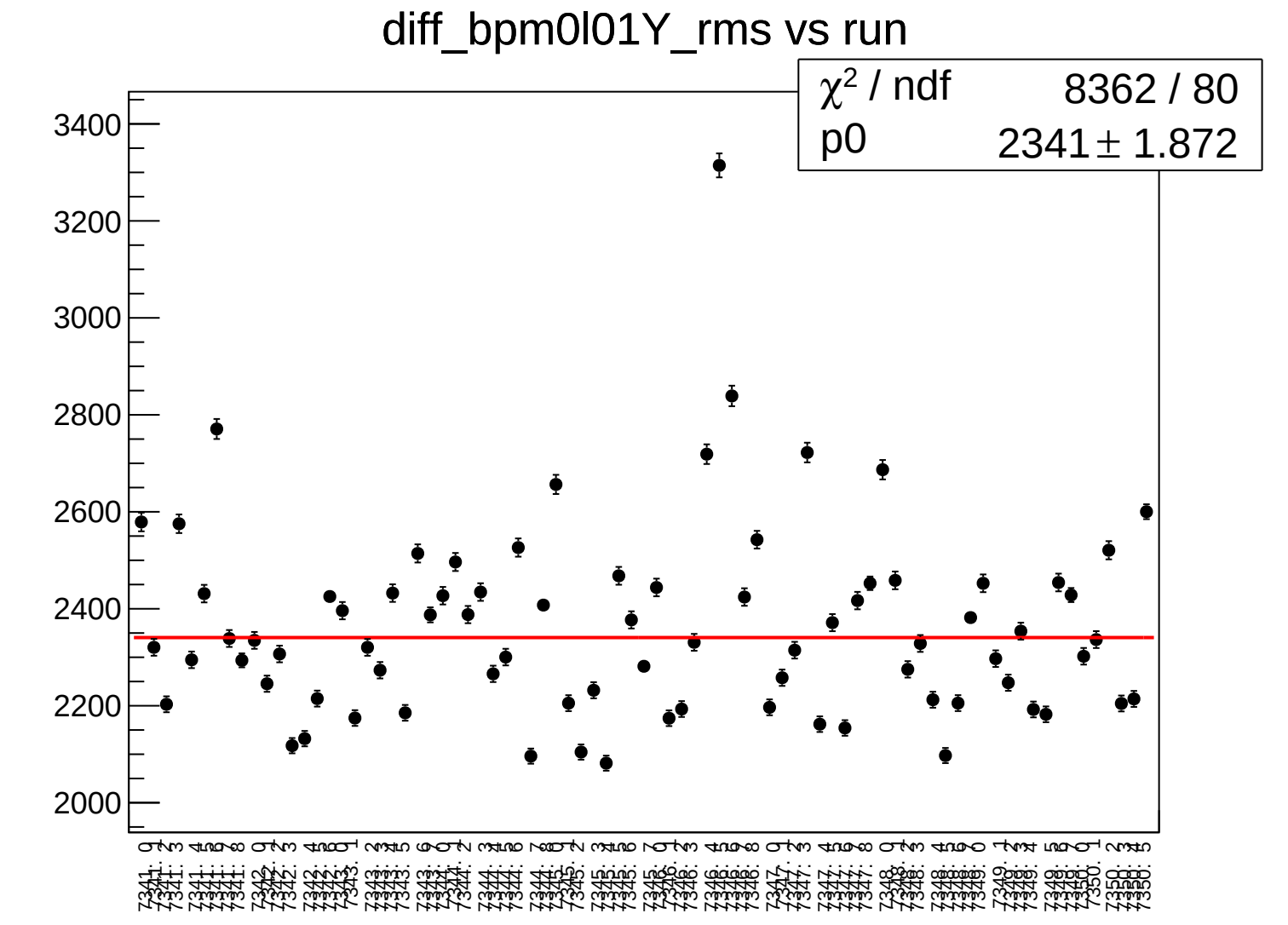

diff_bpm0l01X_mean vs run
χ^2 / ndf 67.68 / 80
p0 −16.87 ± 4.315
pull
Entries 81
Mean −90.56
Std Dev 110.6

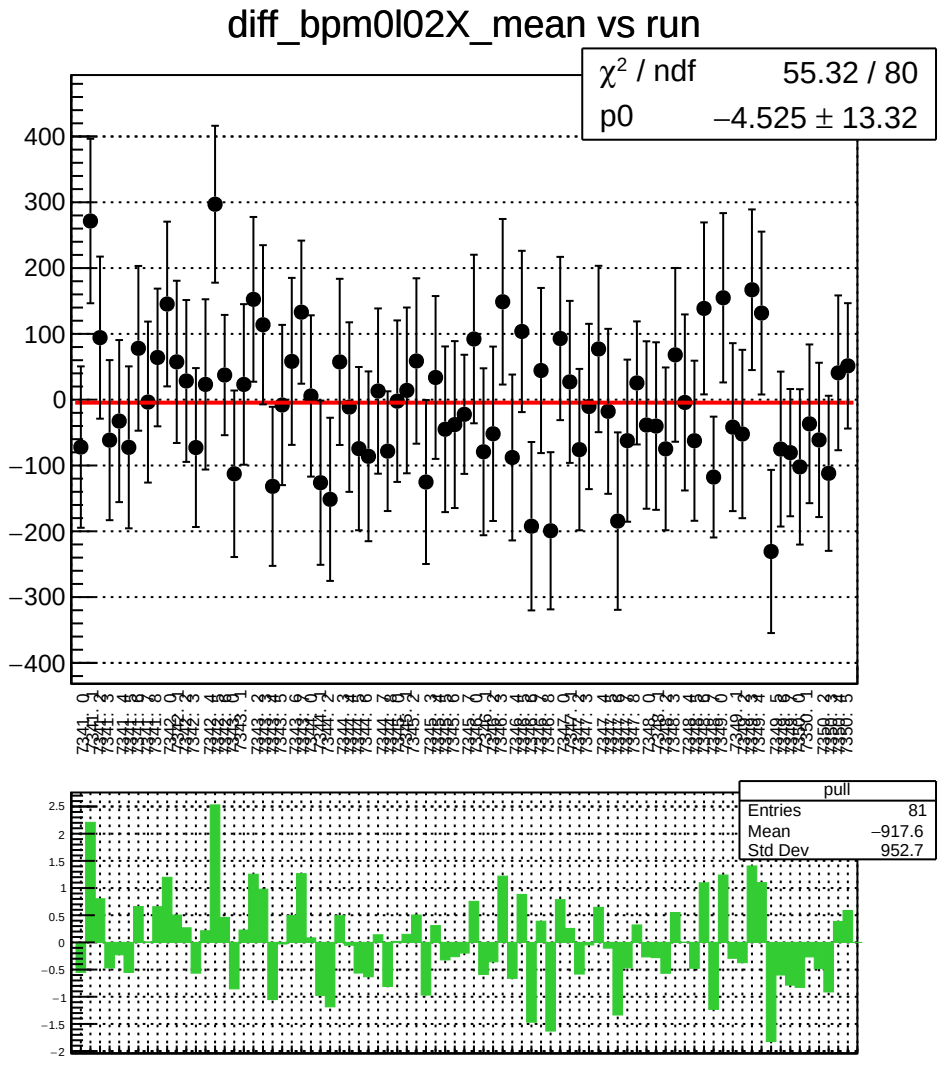

pull1D
Entries 81
Mean 0.0153
Std Dev 0.914

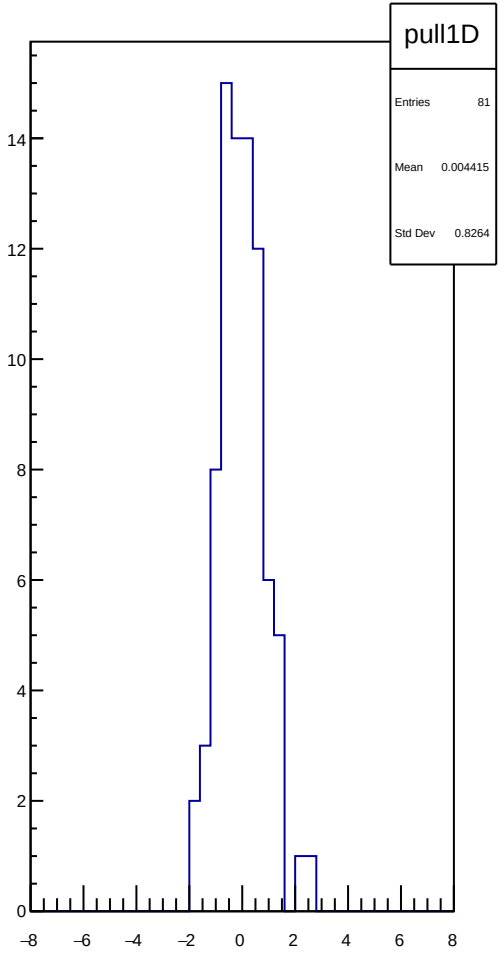

diff_bpm0l01X_rms vs run
χ² / ndf 548.9 / 80
p0 3824 ± 3.051
4050
4000
3950
3900
3850
3800
3750
3700
3650
3600

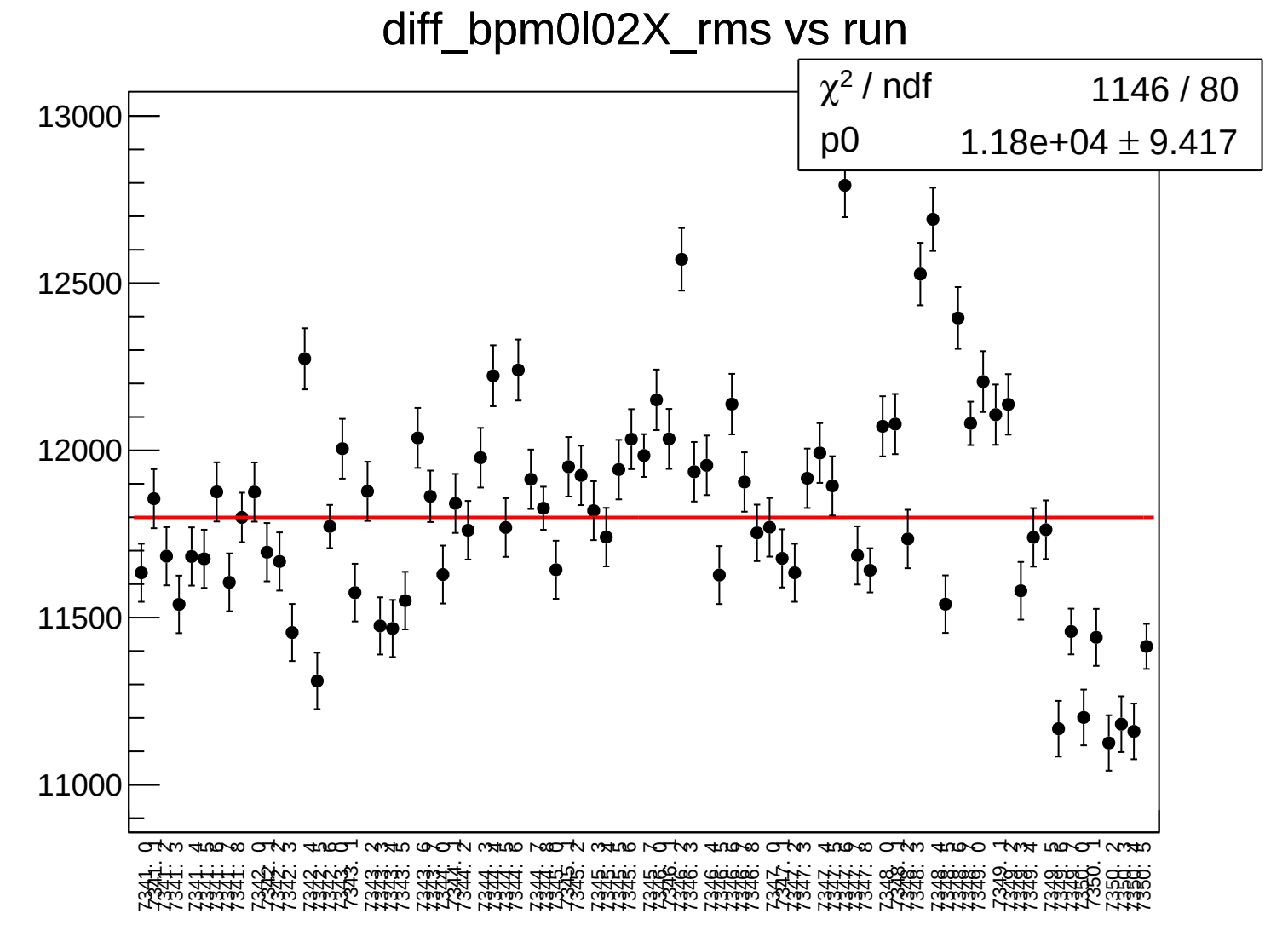

diff_bpm0l01Y_mean vs run
χ² / ndf 76.01 / 80
p0 36.74 ± 2.648
150
100
50
0
−50
pull
Entries 81
Mean −442
Std Dev 506.3
3
2
1
0
−1
−2

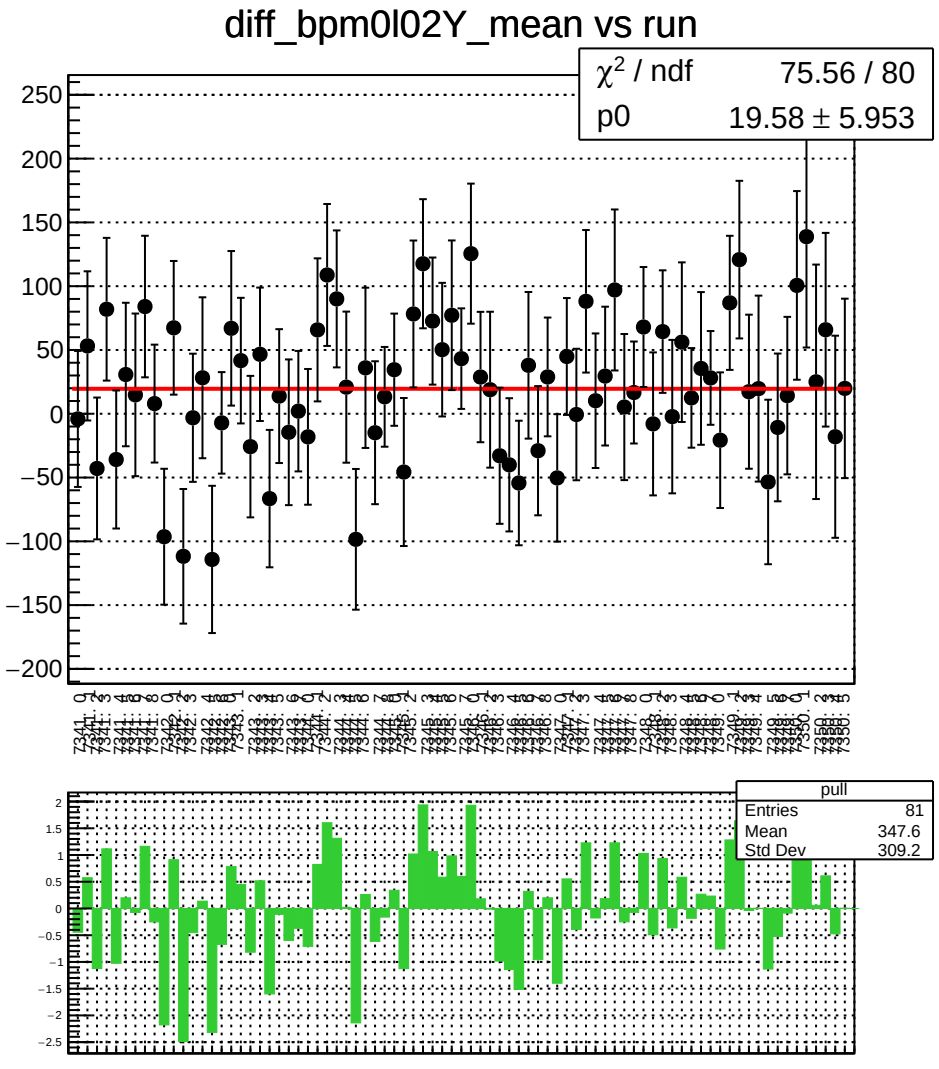

pull1D
Entries 81
Mean −0.002736
Std Dev 0.9687
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

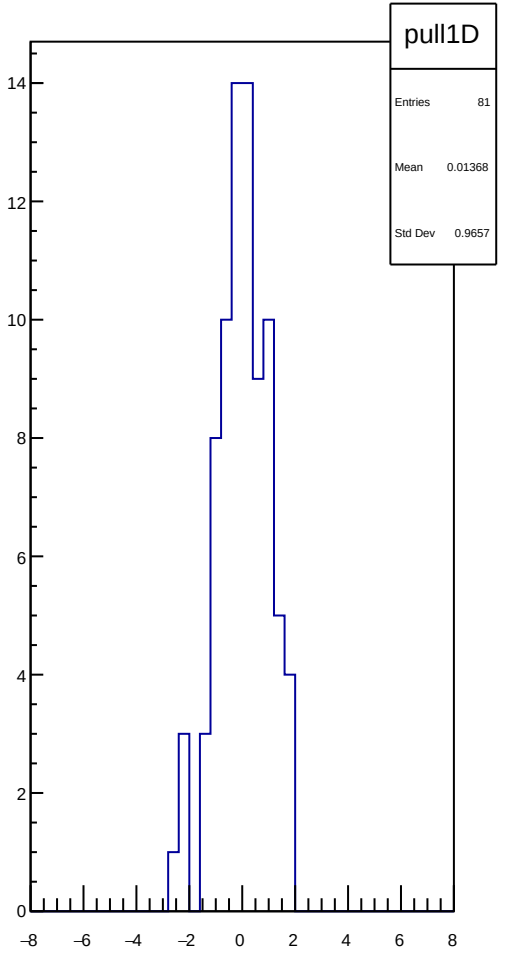

diff_bpm0l01Y_rms vs run
χ² / ndf 8362 / 80
p0 2341 ± 1.872
3400
3200
3000
2800
2600
2400
2200
2000

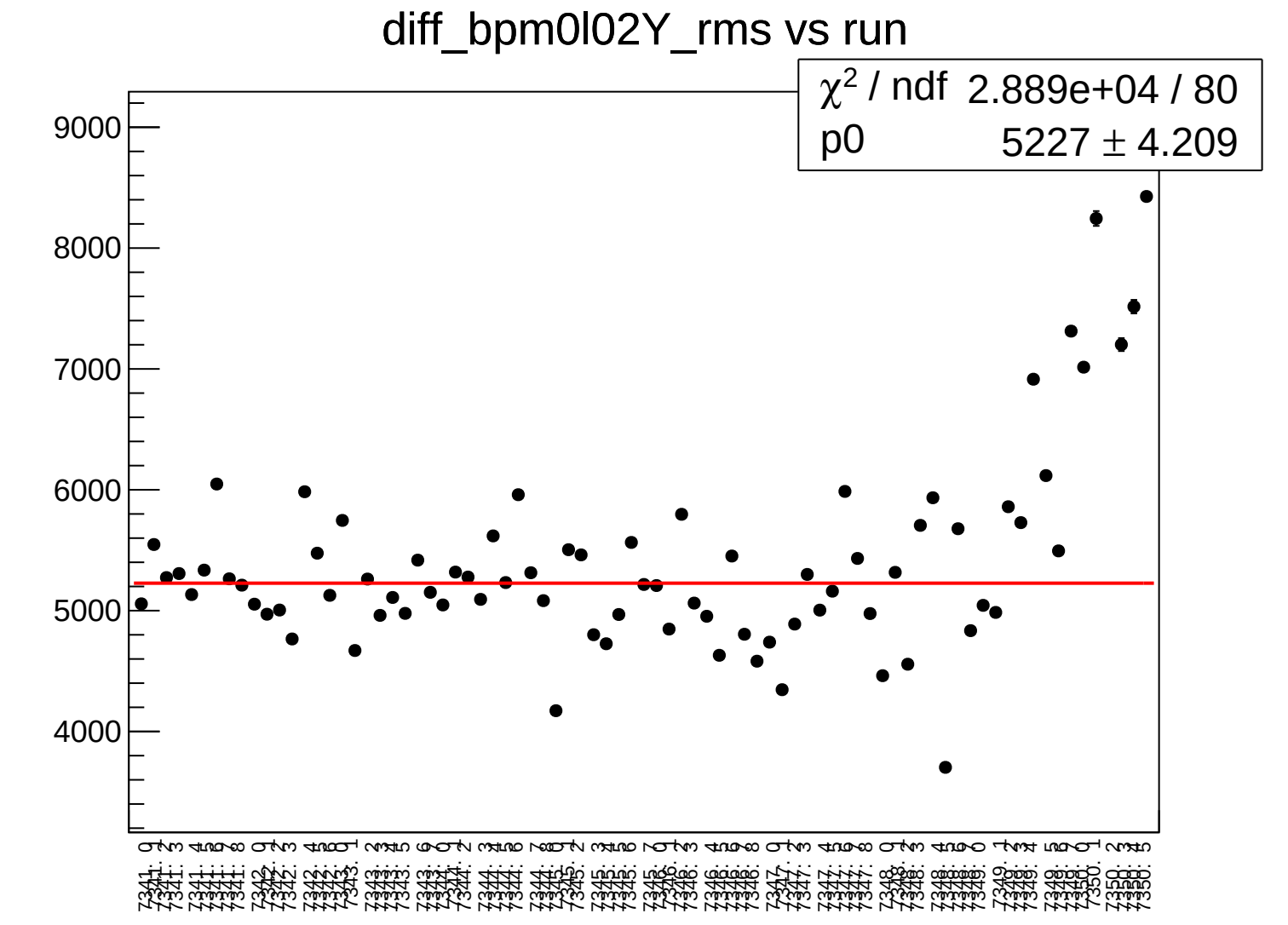

diff_bpm0l02X_mean vs run
χ² / ndf 55.32 / 80
p0 −4.525 ± 13.32
pull
Entries 81
Mean −917.6
Std Dev 952.7

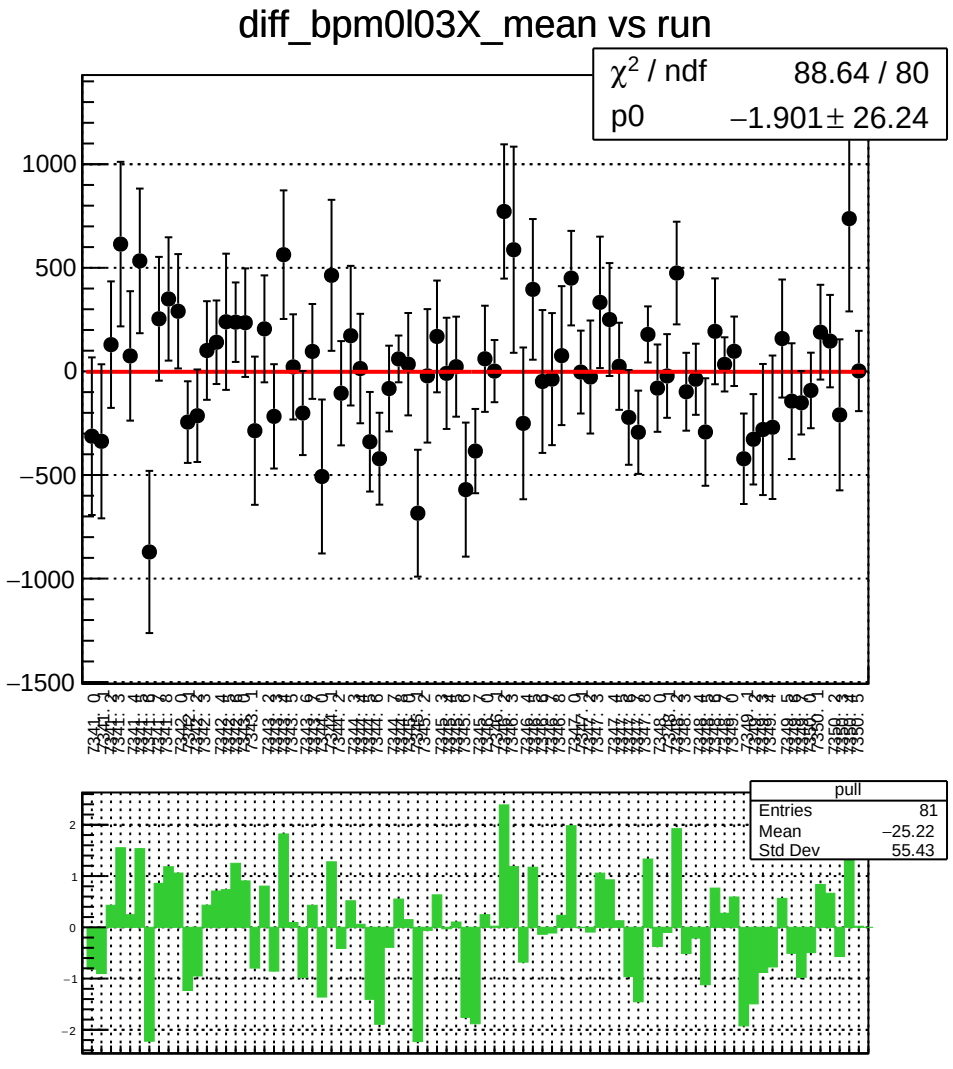

pull1D
Entries 81
Mean 0.004415
Std Dev 0.8264

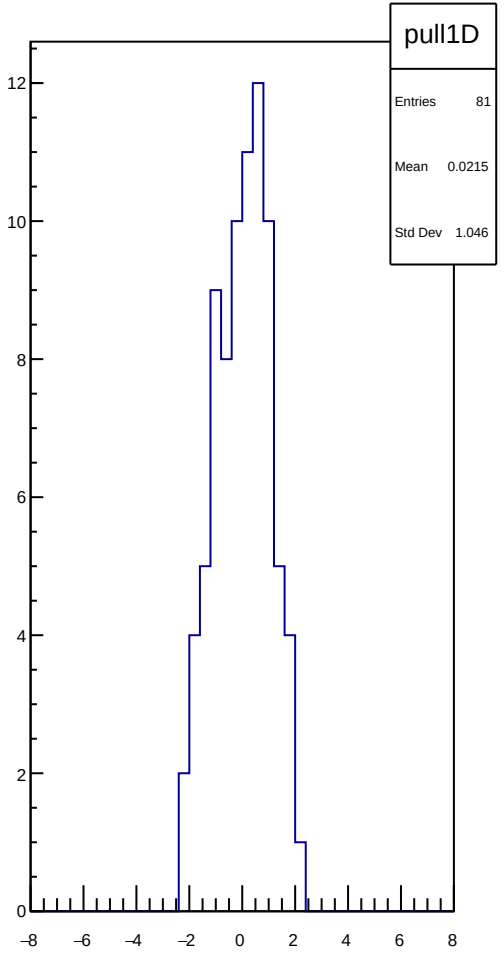

diff_bpm0l02X_rms vs run
χ² / ndf 1146 / 80
p0 1.18e+04 ± 9.417
13000
12500
12000
11500
11000

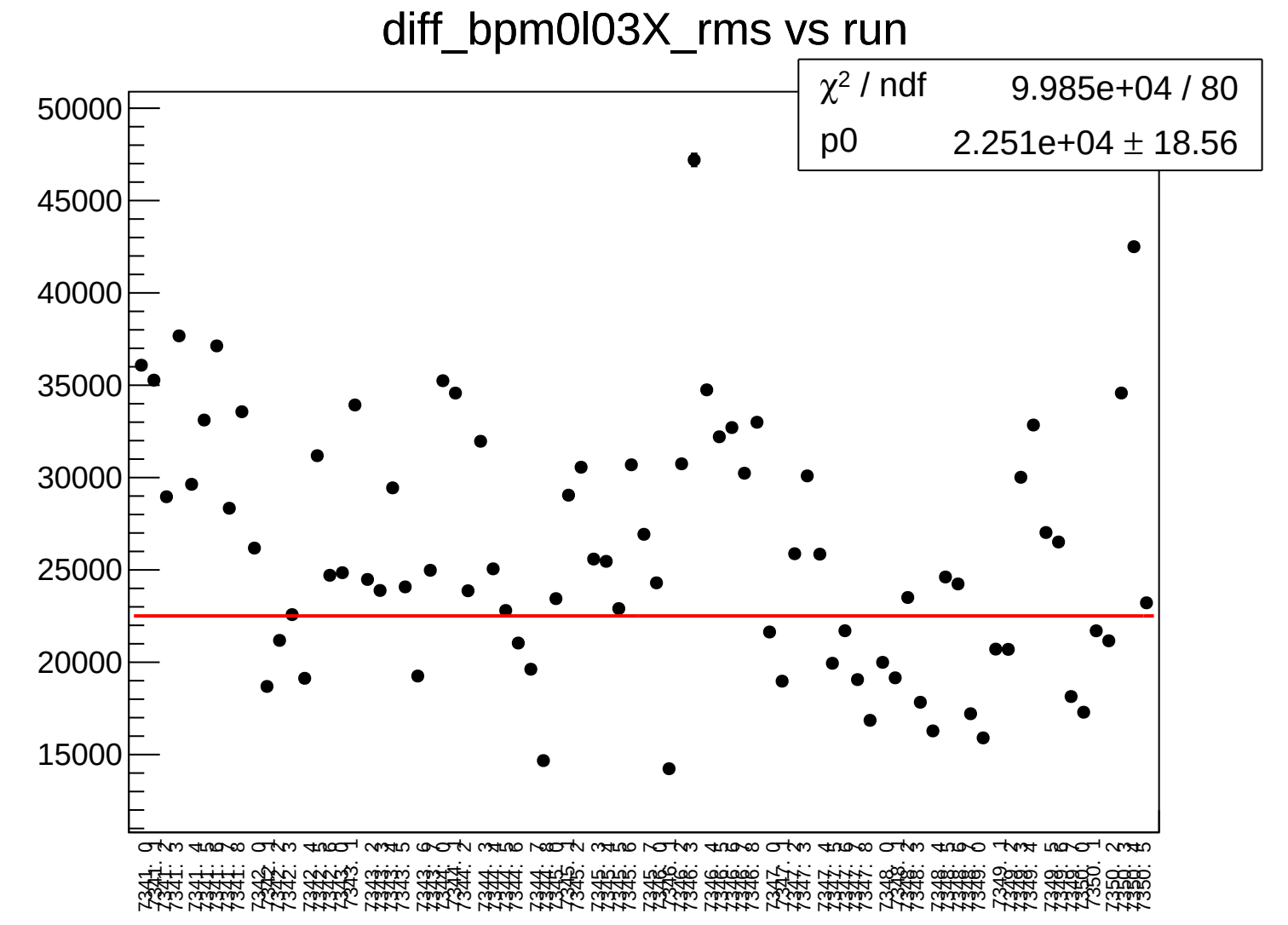

diff_bpm0l02Y_mean vs run
χ^2 / ndf 75.56 / 80
p0 19.58 ± 5.953
pull
Entries 81
Mean 347.6
Std Dev 309.2

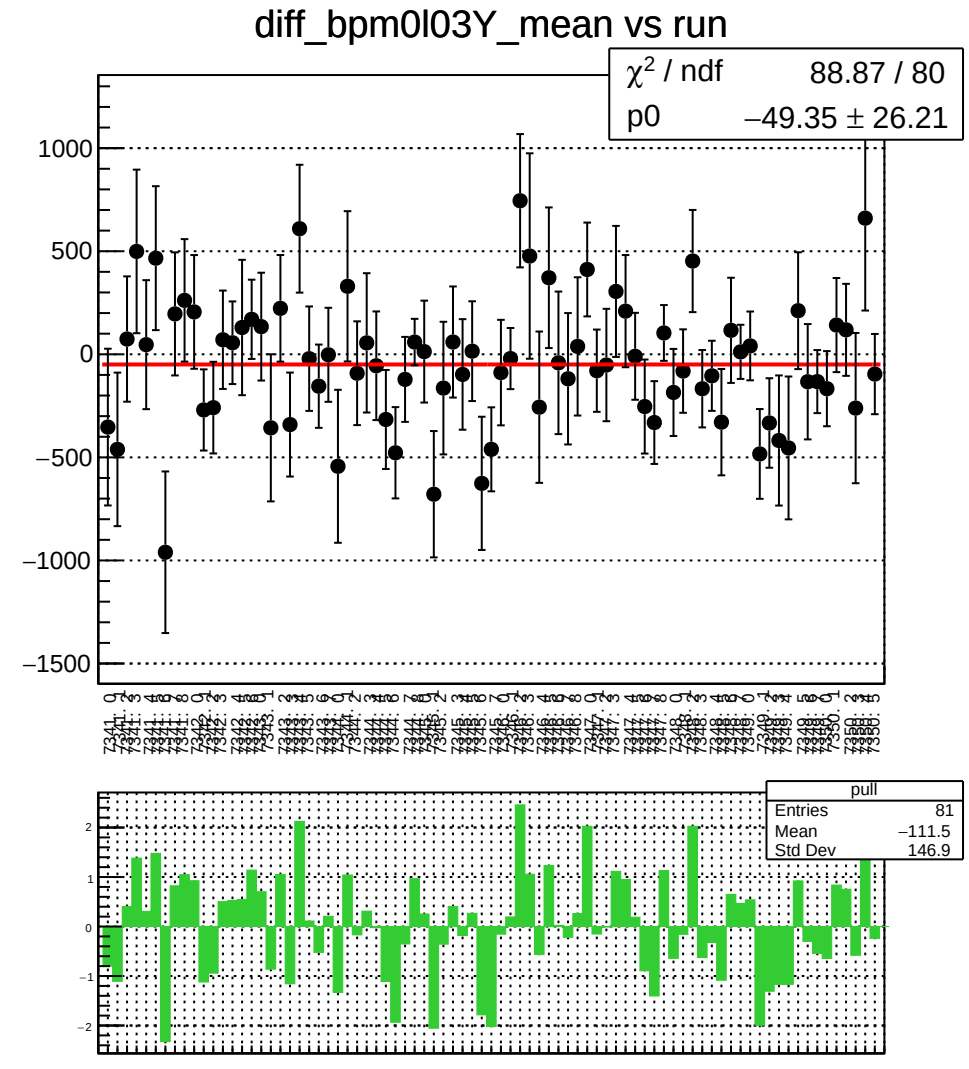

pull1D
Entries 81
Mean 0.01368
Std Dev 0.9657

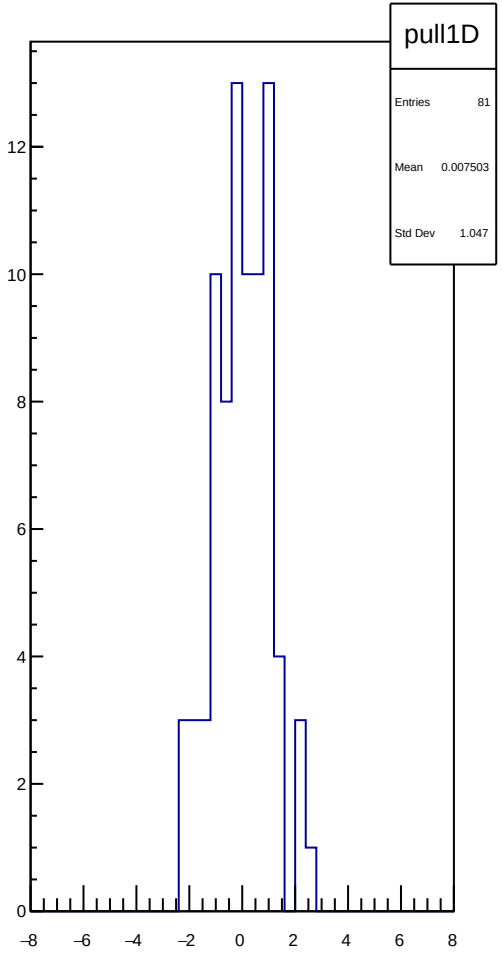

diff_bpm0l02Y_rms vs run
χ^2 / ndf 2.889e+04 / 80
p0 5227 ± 4.209
9000
8000
7000
6000
5000
4000

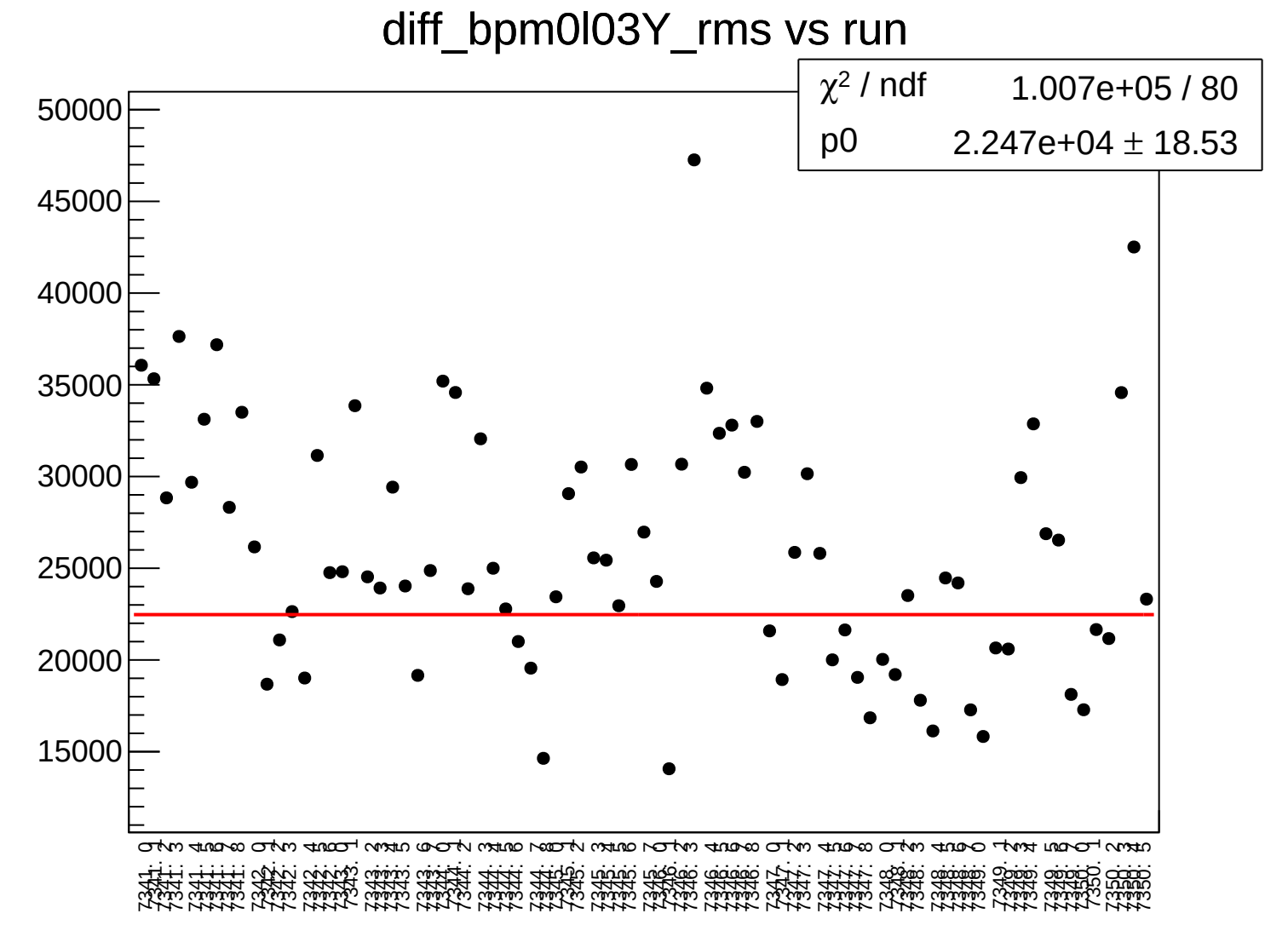

diff_bpm0l03X_mean vs run
χ² / ndf 88.64 / 80
p0 −1.901± 26.24
pull
Entries 81
Mean −25.22
Std Dev 55.43

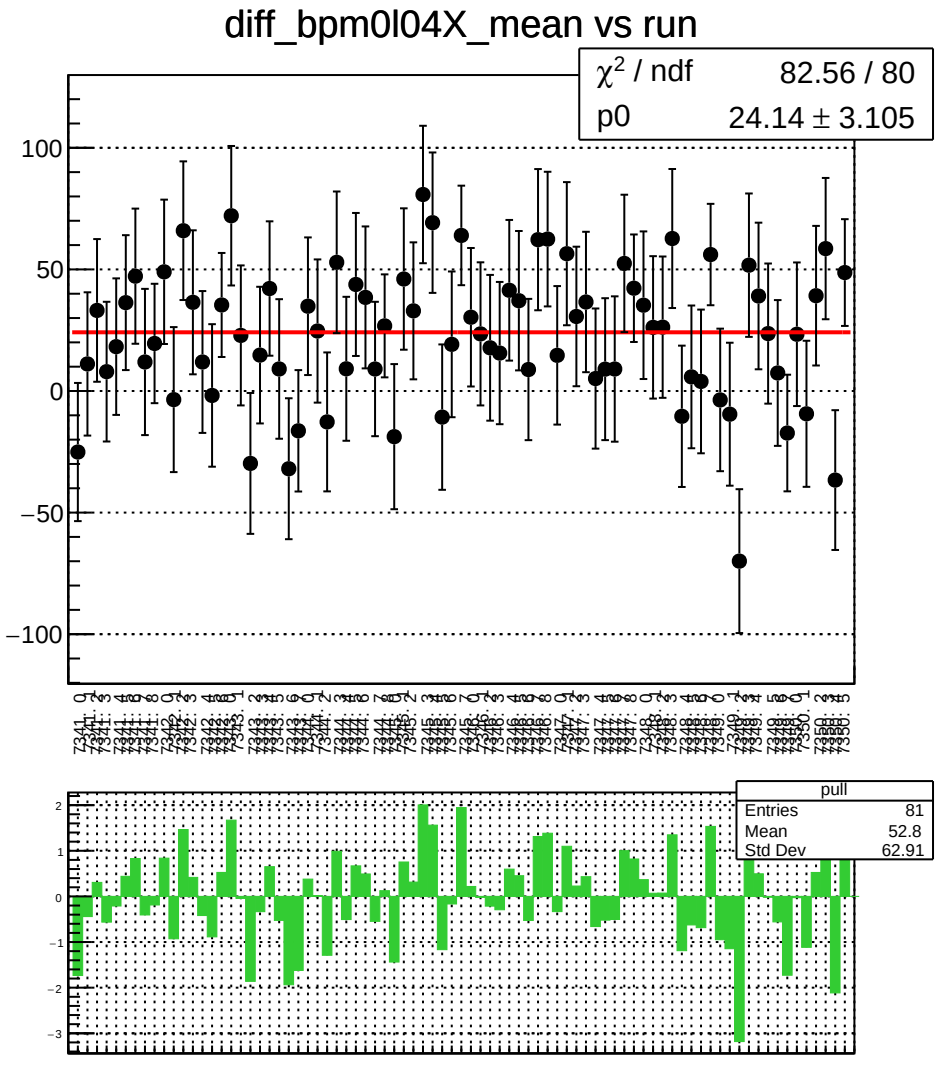

pull1D
Entries 81
Mean 0.0215
Std Dev 1.046

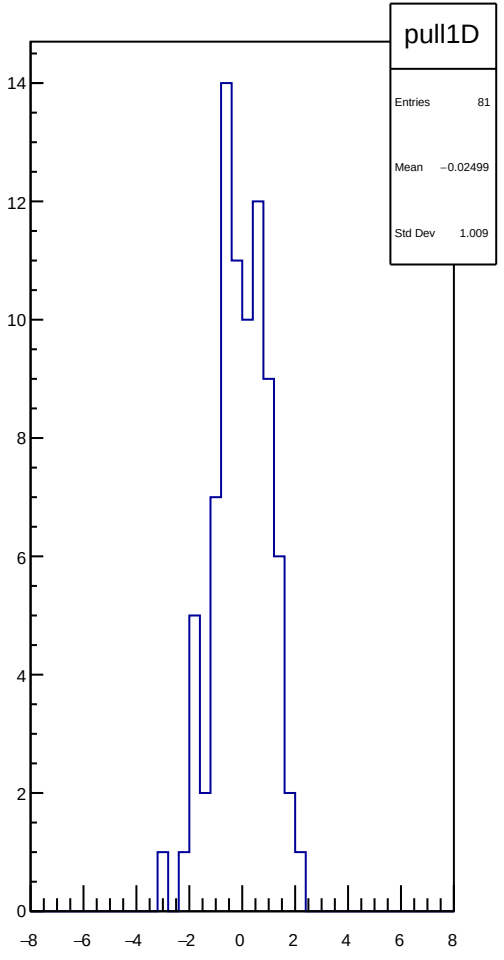

diff_bpm0l03X_rms vs run
χ^2 / ndf 9.985e+04 / 80
p0 2.251e+04 ± 18.56
50000
45000
40000
35000
30000
25000
20000
15000

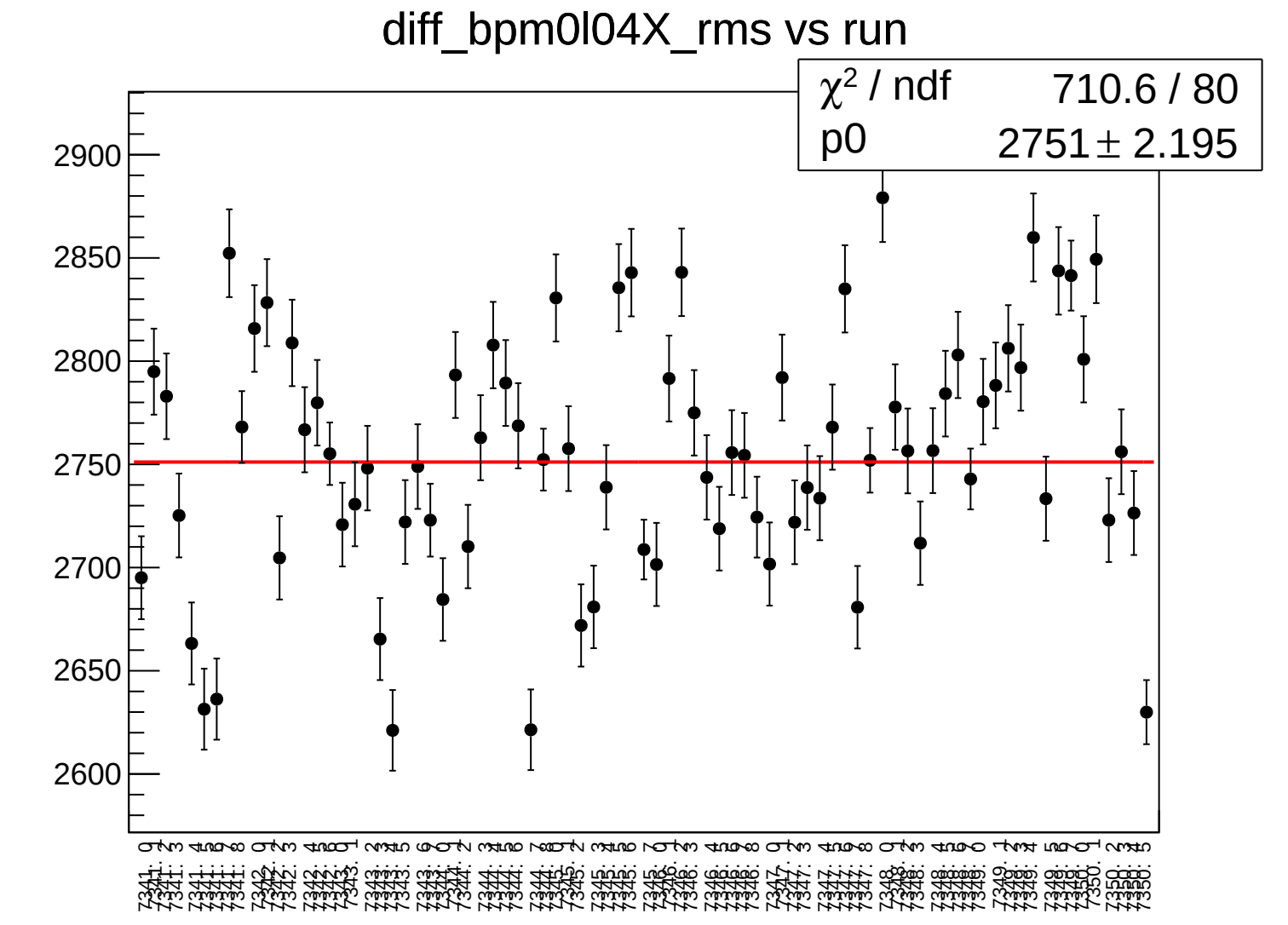

diff_bpm0l03Y_mean vs run
χ² / ndf 88.87 / 80
p0 −49.35 ± 26.21
1000
500
0
−500
−1000
−1500
pull
Entries 81
Mean −111.5
Std Dev 146.9
2
1
0
−1
−2

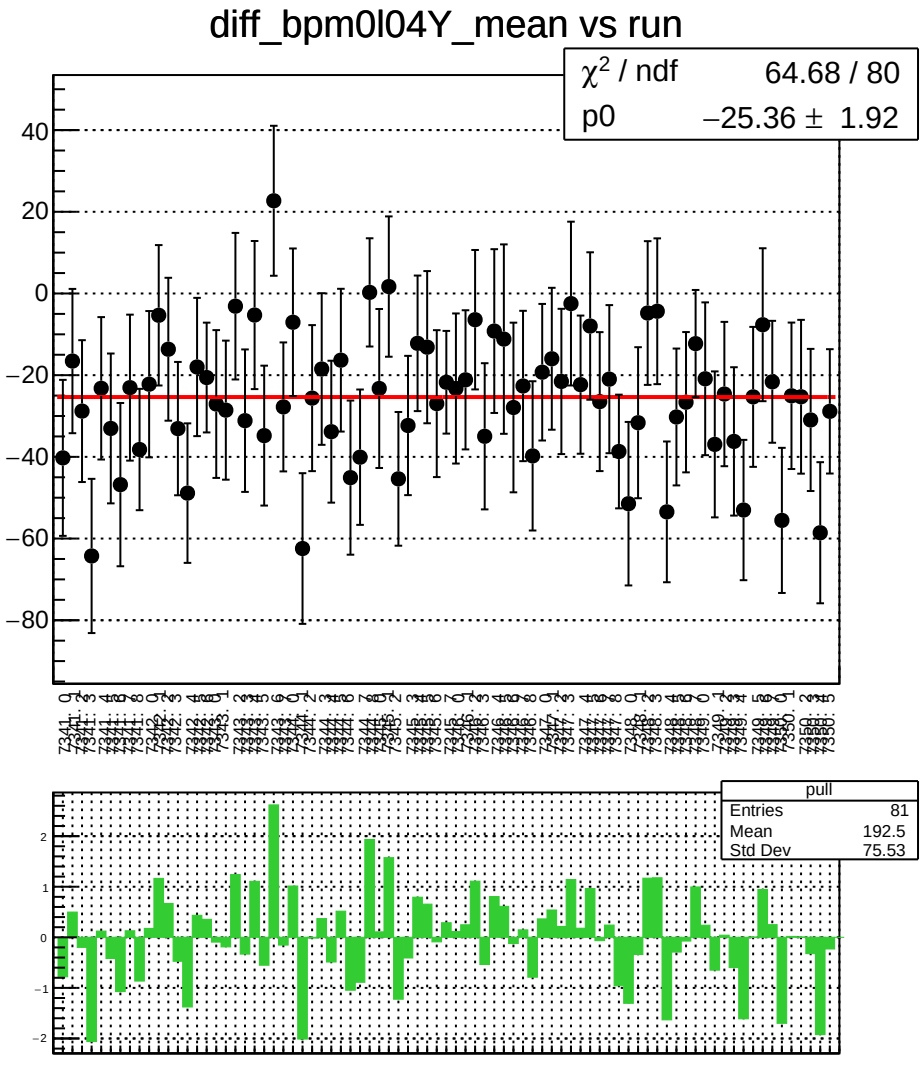

pull1D
Entries 81
Mean 0.007503
Std Dev 1.047
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

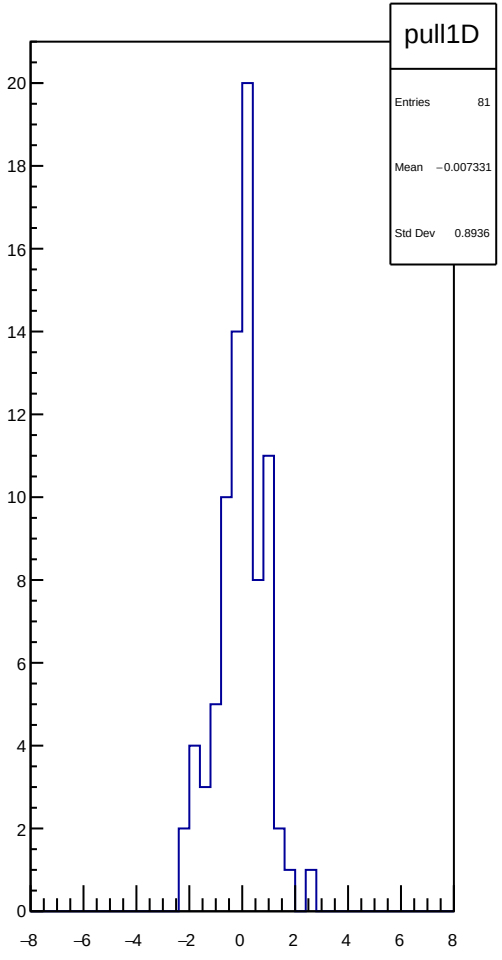

diff_bpm0l03Y_rms vs run
χ² / ndf 1.007e+05 / 80
p0 2.247e+04 ± 18.53
50000
45000
40000
35000
30000
25000
20000
15000

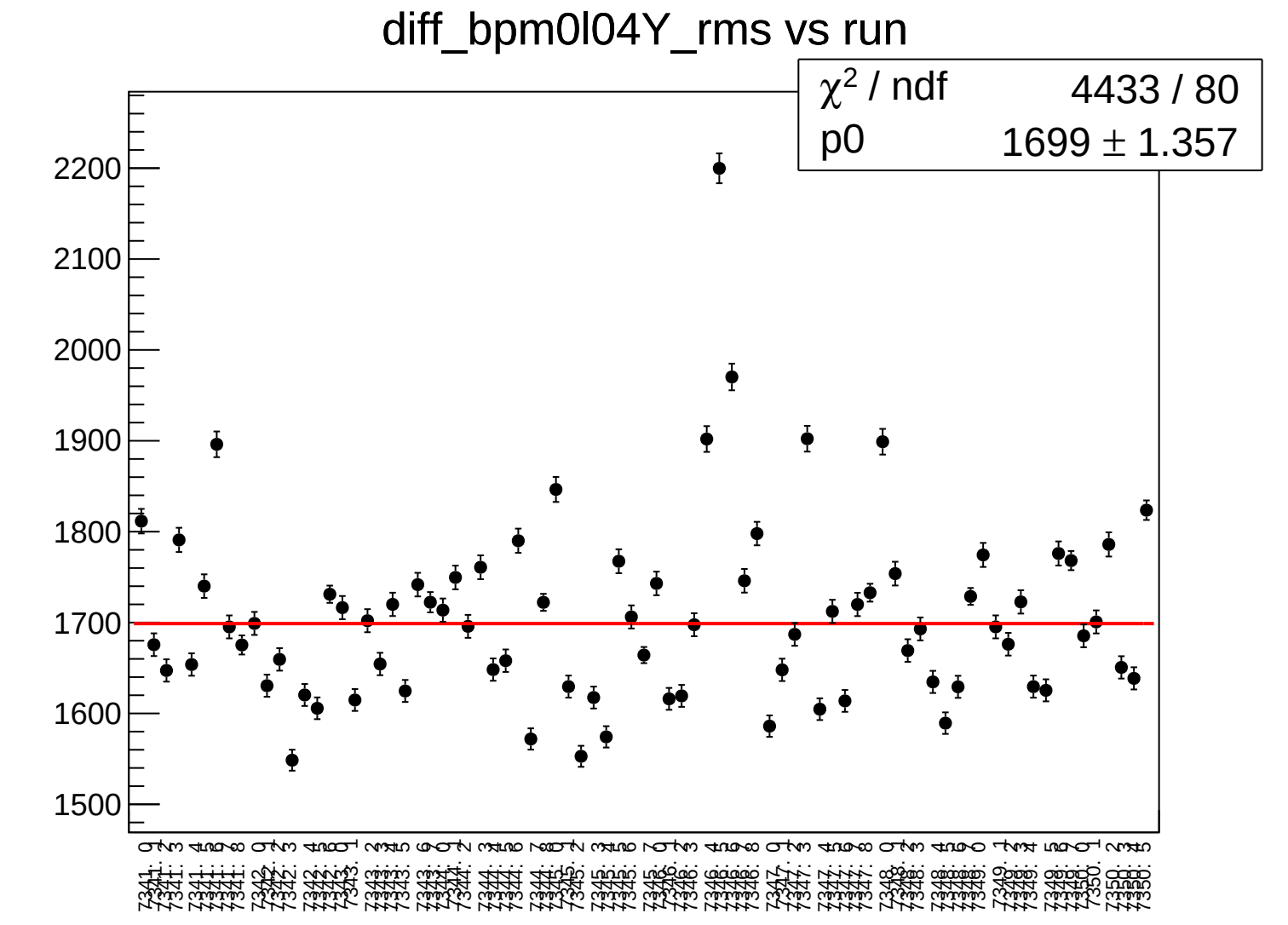

diff_bpm0l04X_mean vs run
χ^2 / ndf 82.56 / 80
p0 24.14 ± 3.105
pull
Entries 81
Mean 52.8
Std Dev 62.91

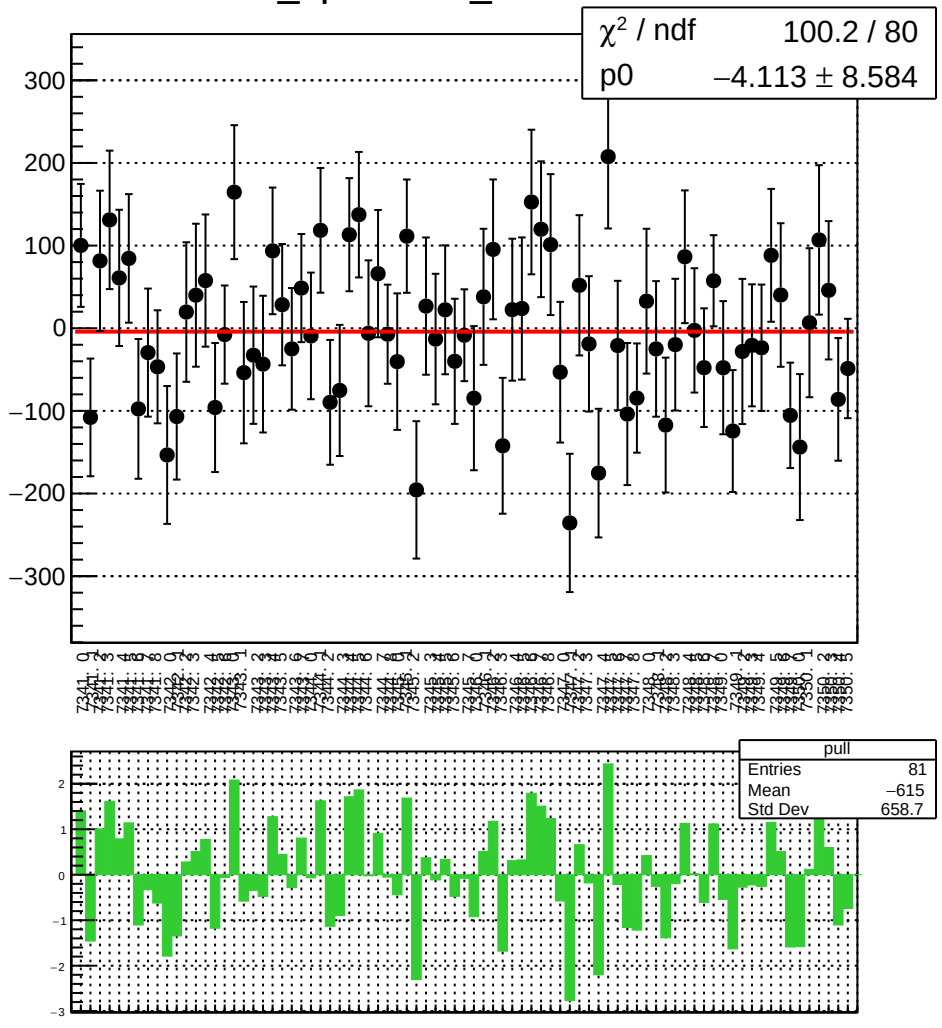

pull1D
Entries 81
Mean −0.02499
Std Dev 1.009

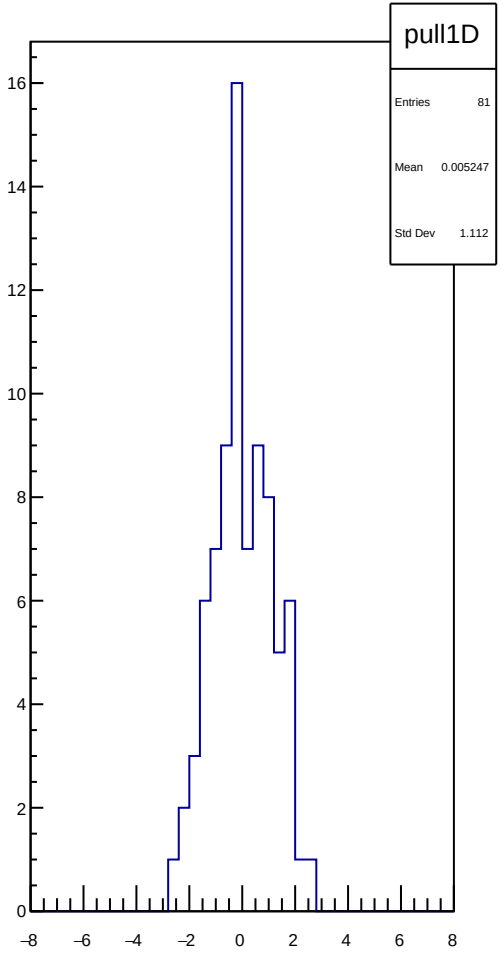

diff_bpm0l04X_rms vs run
χ² / ndf 710.6 / 80
p0 2751 ± 2.195
2900
2850
2800
2750
2700
2650
2600

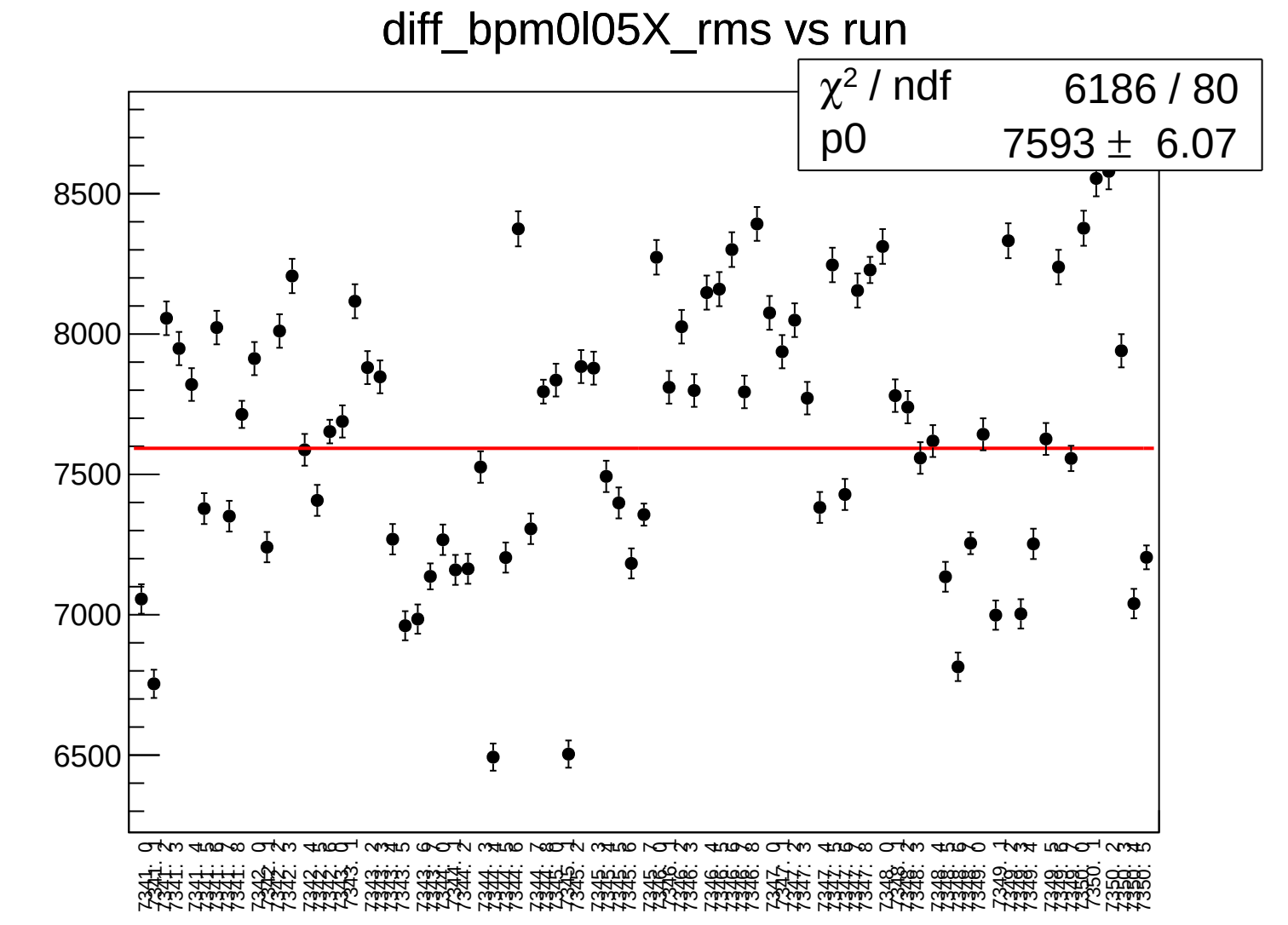

diff_bpm0l04Y_mean vs run
χ^2 / ndf 64.68 / 80
p0 −25.36 ± 1.92
pull
Entries 81
Mean 192.5
Std Dev 75.53

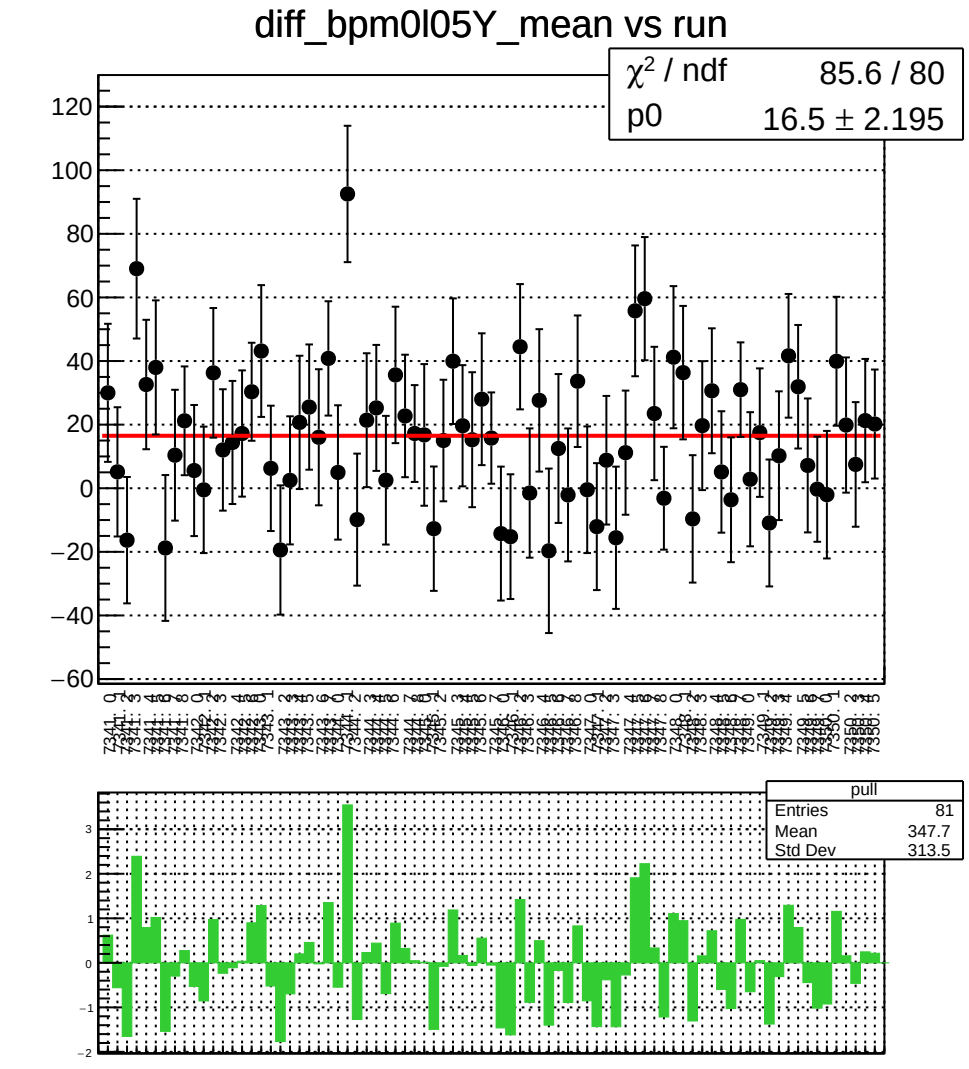

pull1D
Entries 81
Mean −0.007331
Std Dev 0.8936

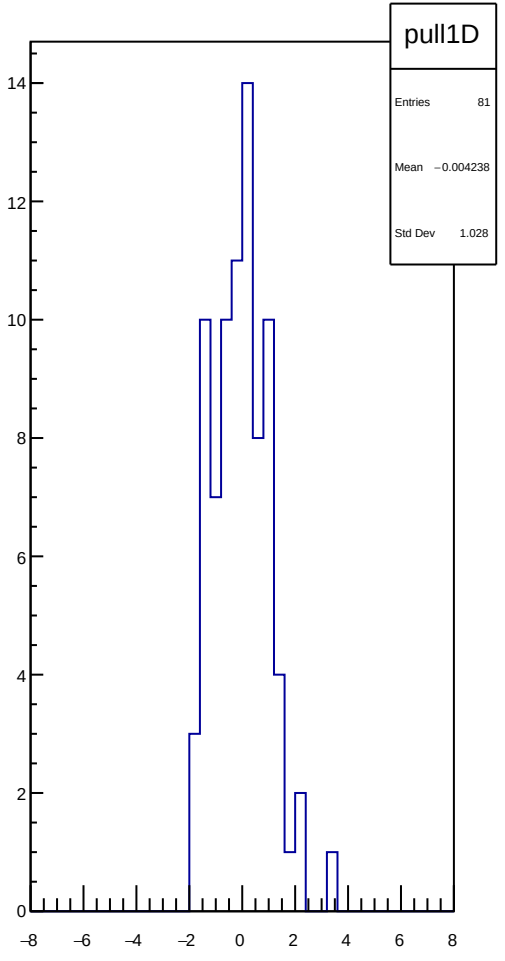

diff_bpm0l04Y_rms vs run
χ² / ndf 4433 / 80
p0 1699 ± 1.357
2200
2100
2000
1900
1800
1700
1600
1500

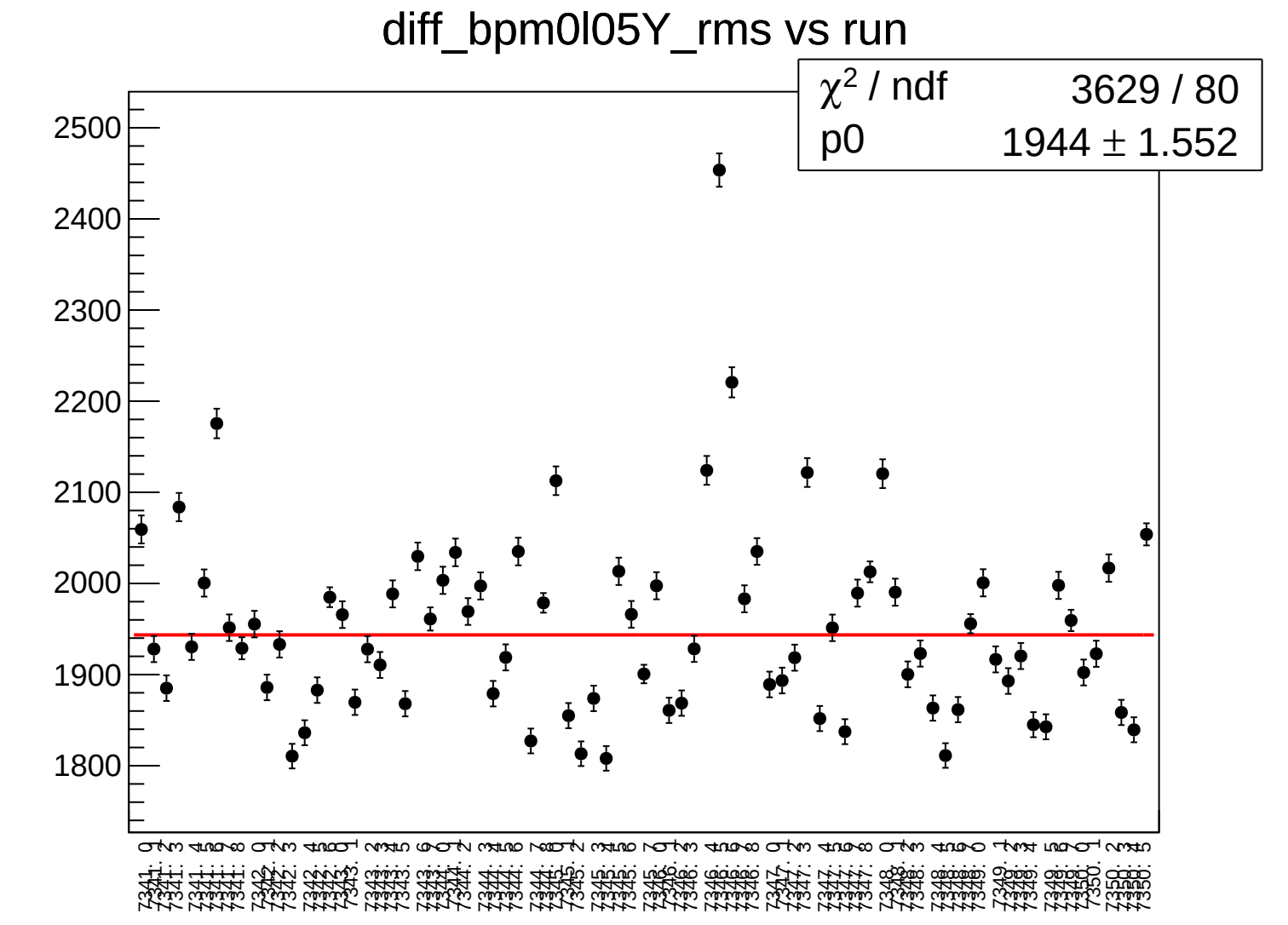

diff_bpm0l05X_mean vs run
χ^2 / ndf 100.2 / 80
p0 −4.113 ± 8.584
pull
Entries 81
Mean −615
Std Dev 658.7

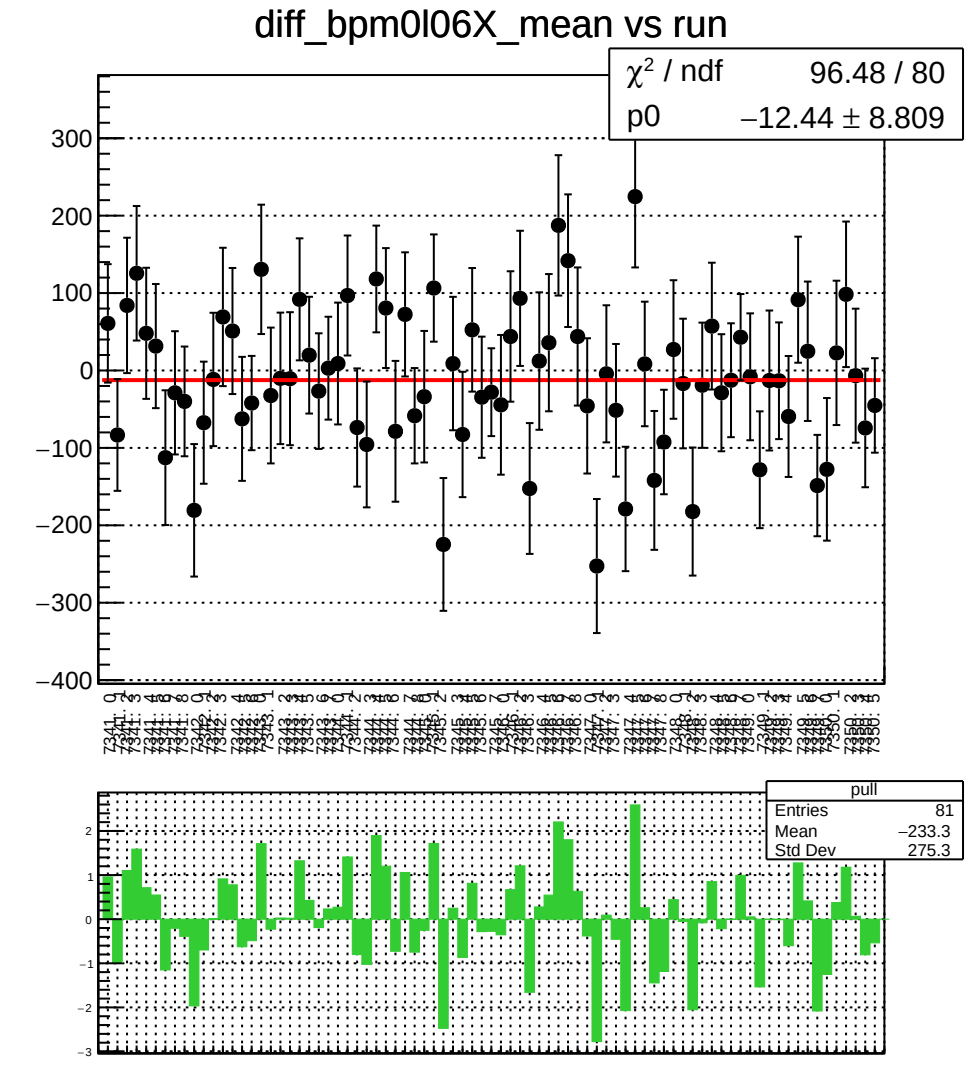

pull1D
Entries 81
Mean 0.005247
Std Dev 1.112

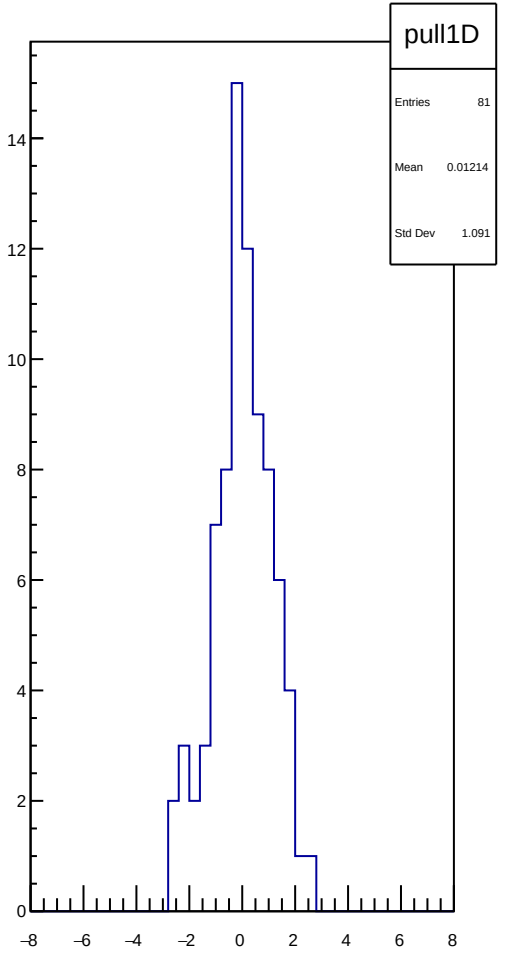

diff_bpm0l05X_rms vs run
χ² / ndf 6186 / 80
p0 7593 ± 6.07
8500
8000
7500
7000
6500

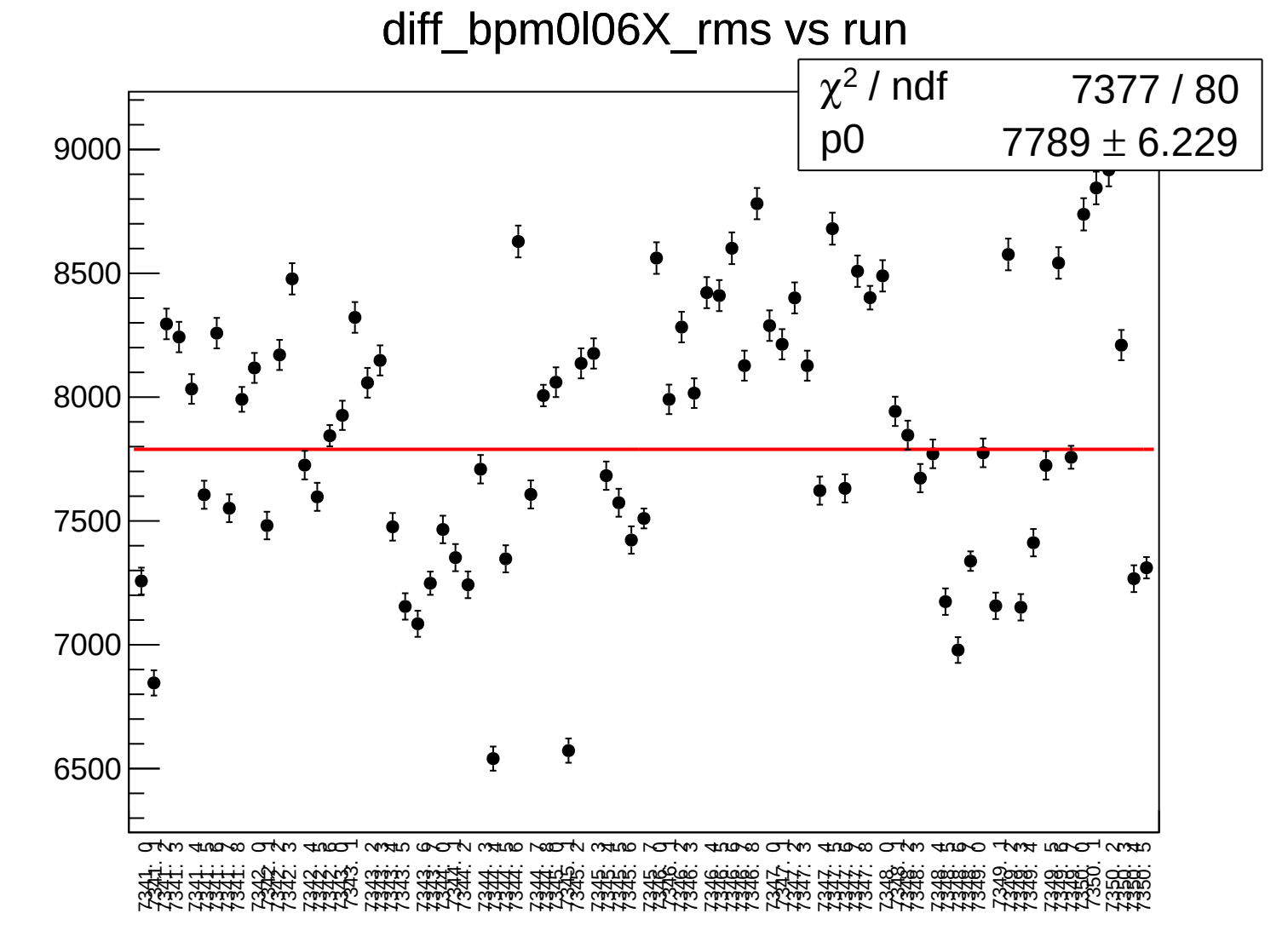

diff_bpm0l05Y_mean vs run
χ² / ndf 85.6 / 80
p0 16.5 ± 2.195
pull
Entries 81
Mean 347.7
Std Dev 313.5

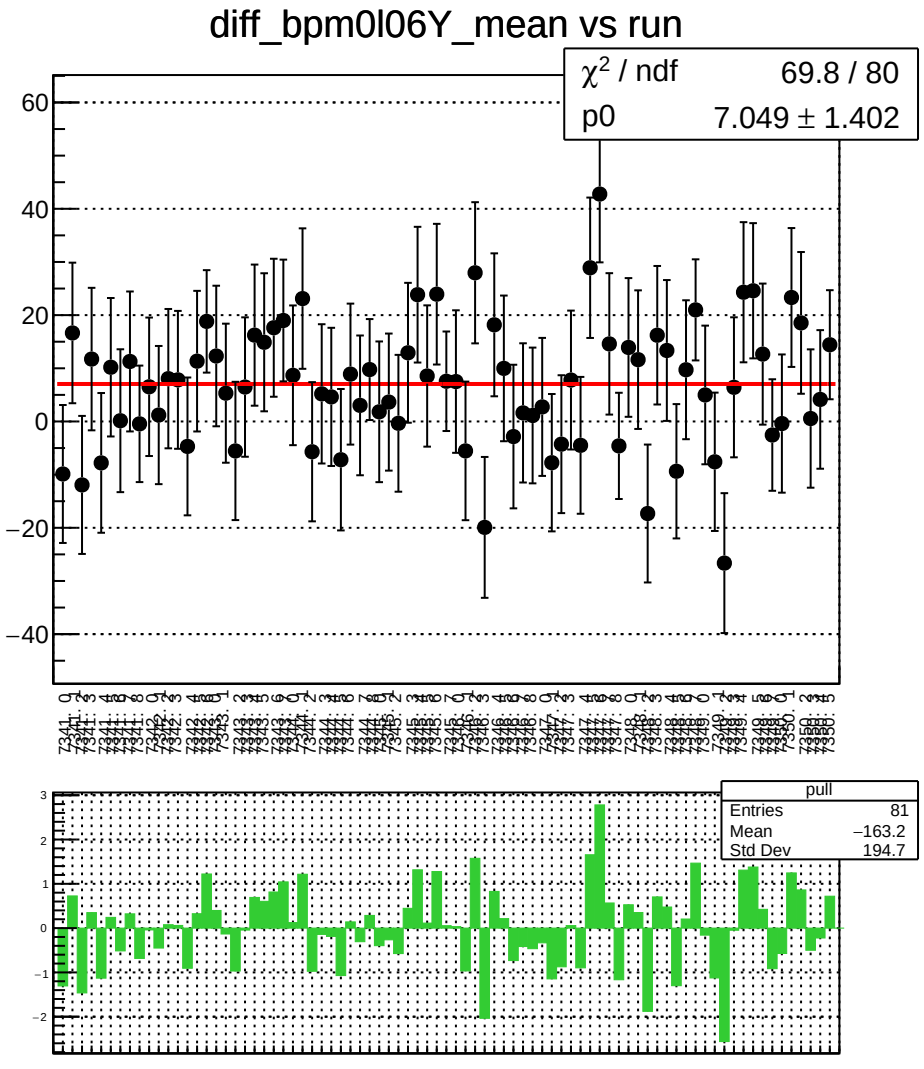

pull1D
Entries 81
Mean −0.004238
Std Dev 1.028

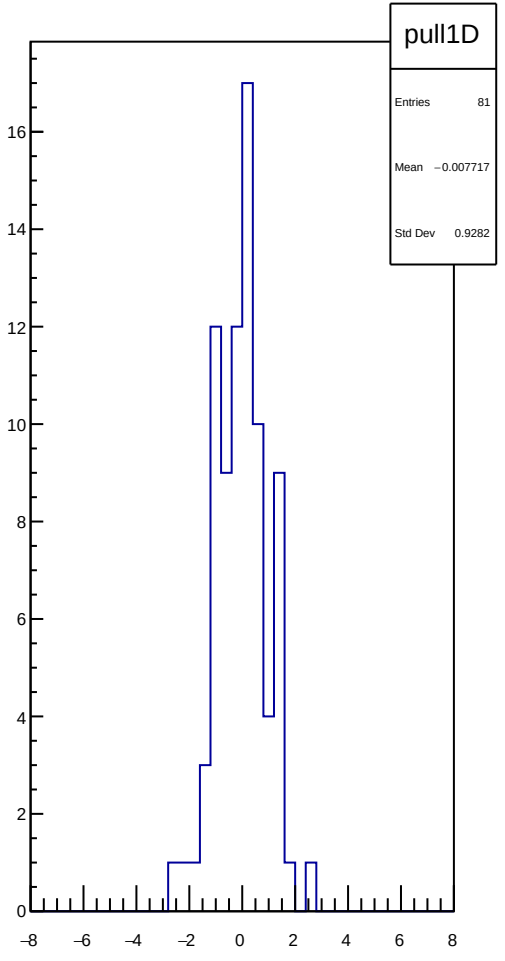

diff_bpm0l05Y_rms vs run
χ² / ndf 3629 / 80
p0 1944 ± 1.552
2500
2400
2300
2200
2100
2000
1900
1800

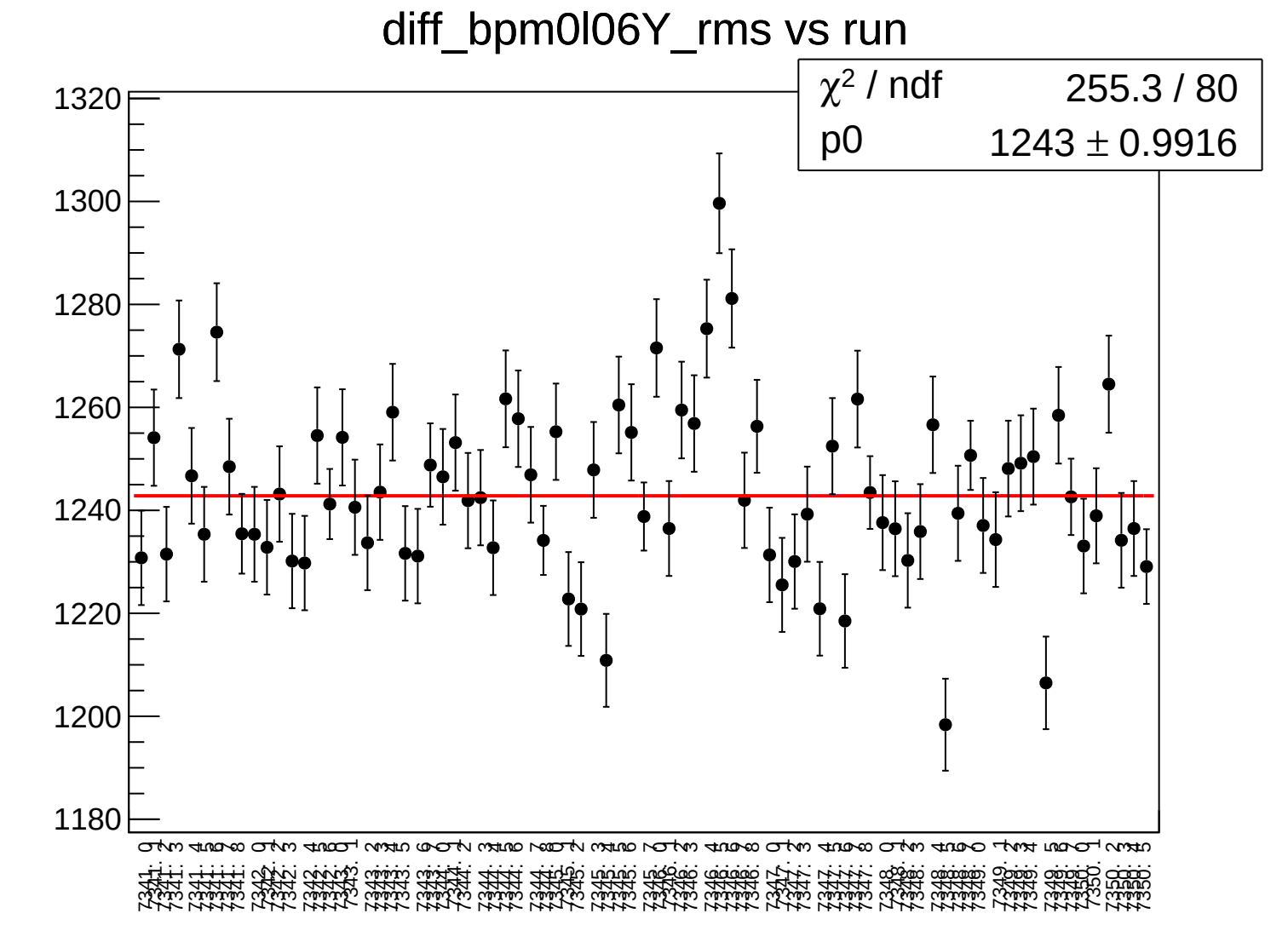

diff_bpm0l06X_mean vs run
χ² / ndf 96.48 / 80
p0 −12.44 ± 8.809
pull
Entries 81
Mean −233.3
Std Dev 275.3

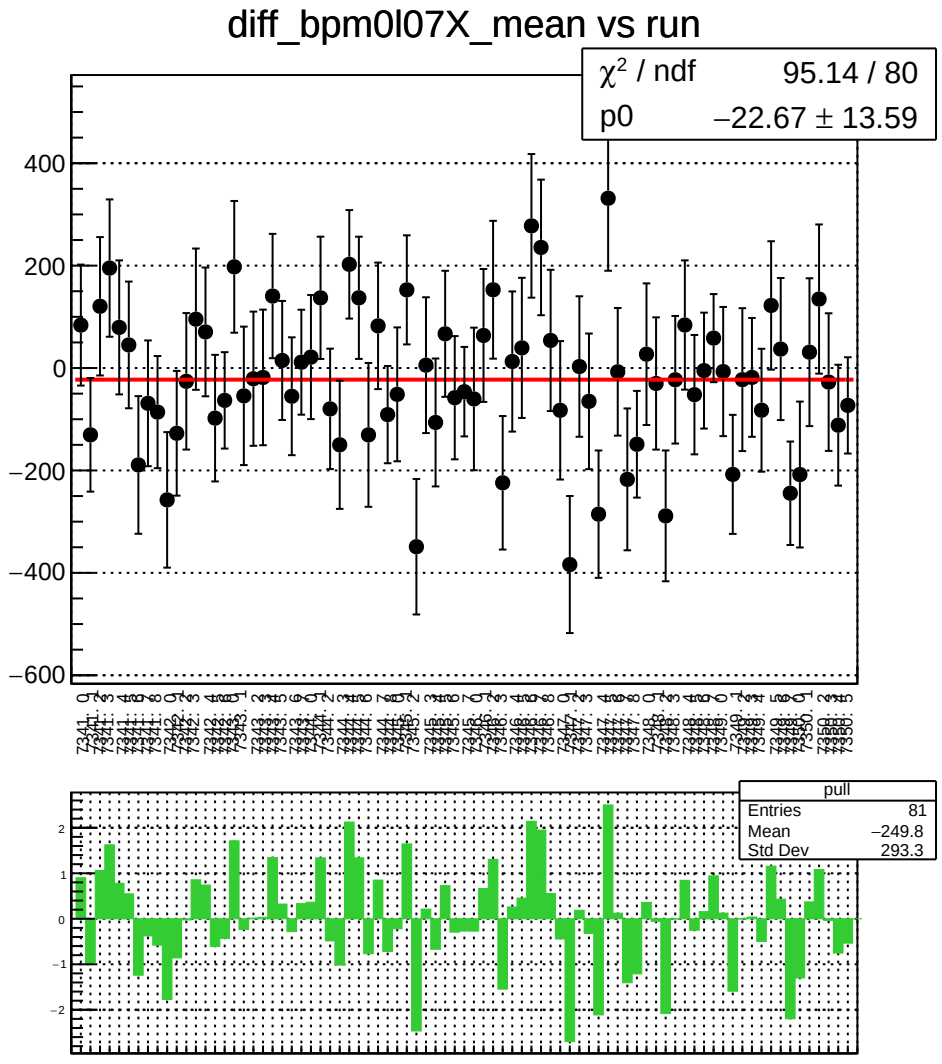

pull1D
Entries 81
Mean 0.01214
Std Dev 1.091

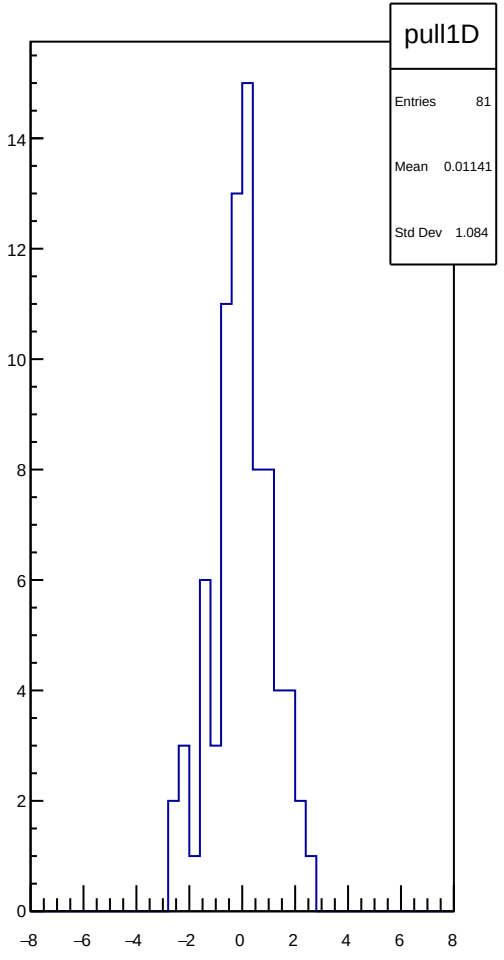

diff_bpm0l06X_rms vs run
χ² / ndf 7377 / 80
p0 7789 ± 6.229
9000
8500
8000
7500
7000
6500

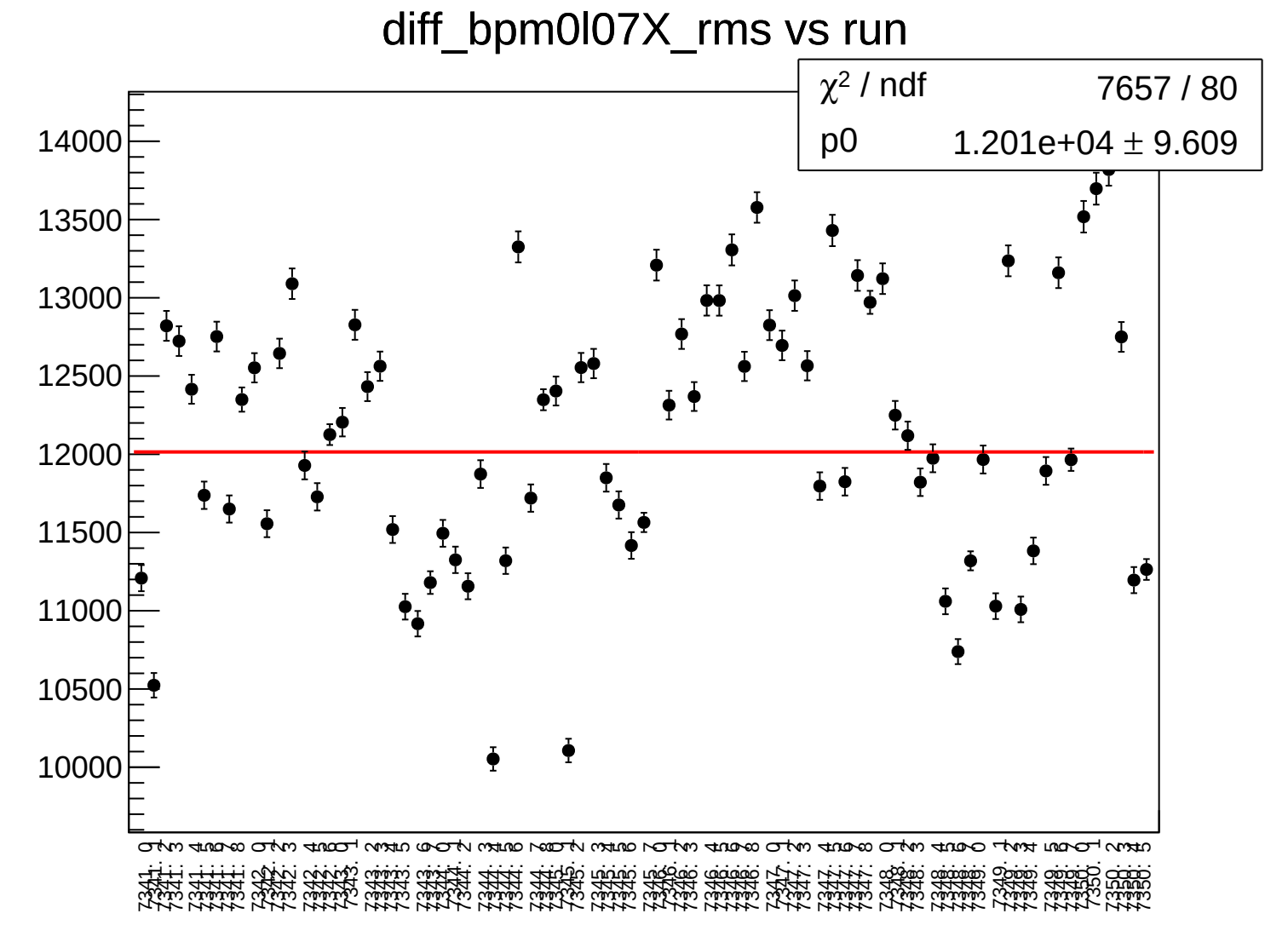

diff_bpm0l06Y_mean vs run
χ^2 / ndf 69.8 / 80
p0 7.049 ± 1.402
pull
Entries 81
Mean −163.2
Std Dev 194.7

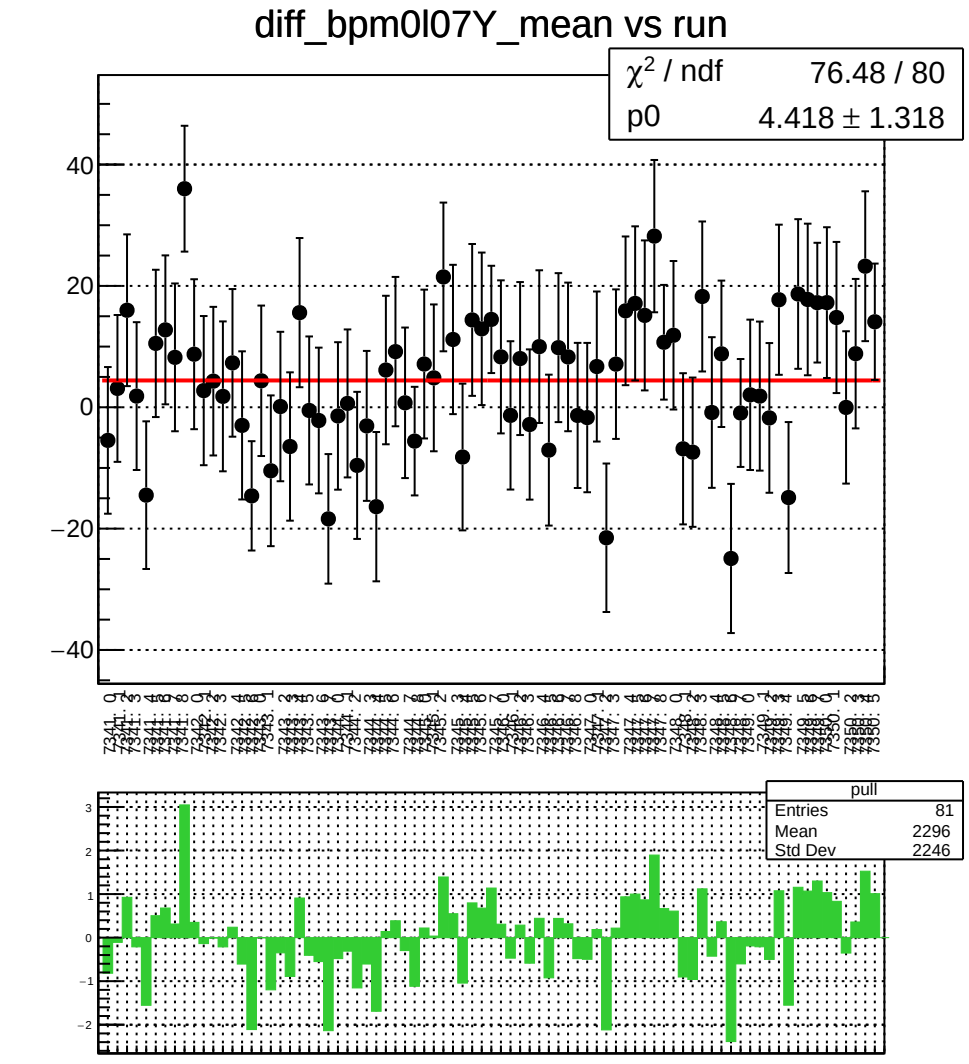

pull1D
Entries 81
Mean −0.007717
Std Dev 0.9282

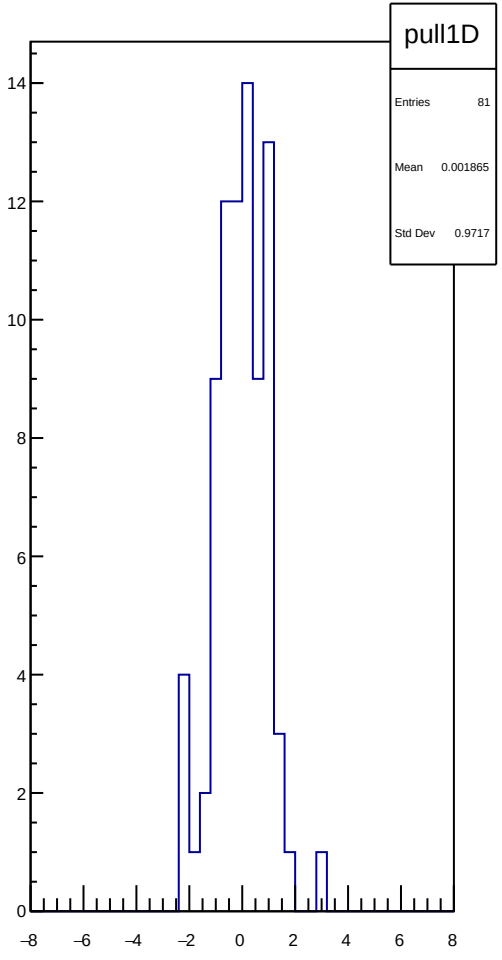

diff_bpm0l06Y_rms vs run
χ² / ndf 255.3 / 80
p0 1243 ± 0.9916
1320
1300
1280
1260
1240
1220
1200
1180

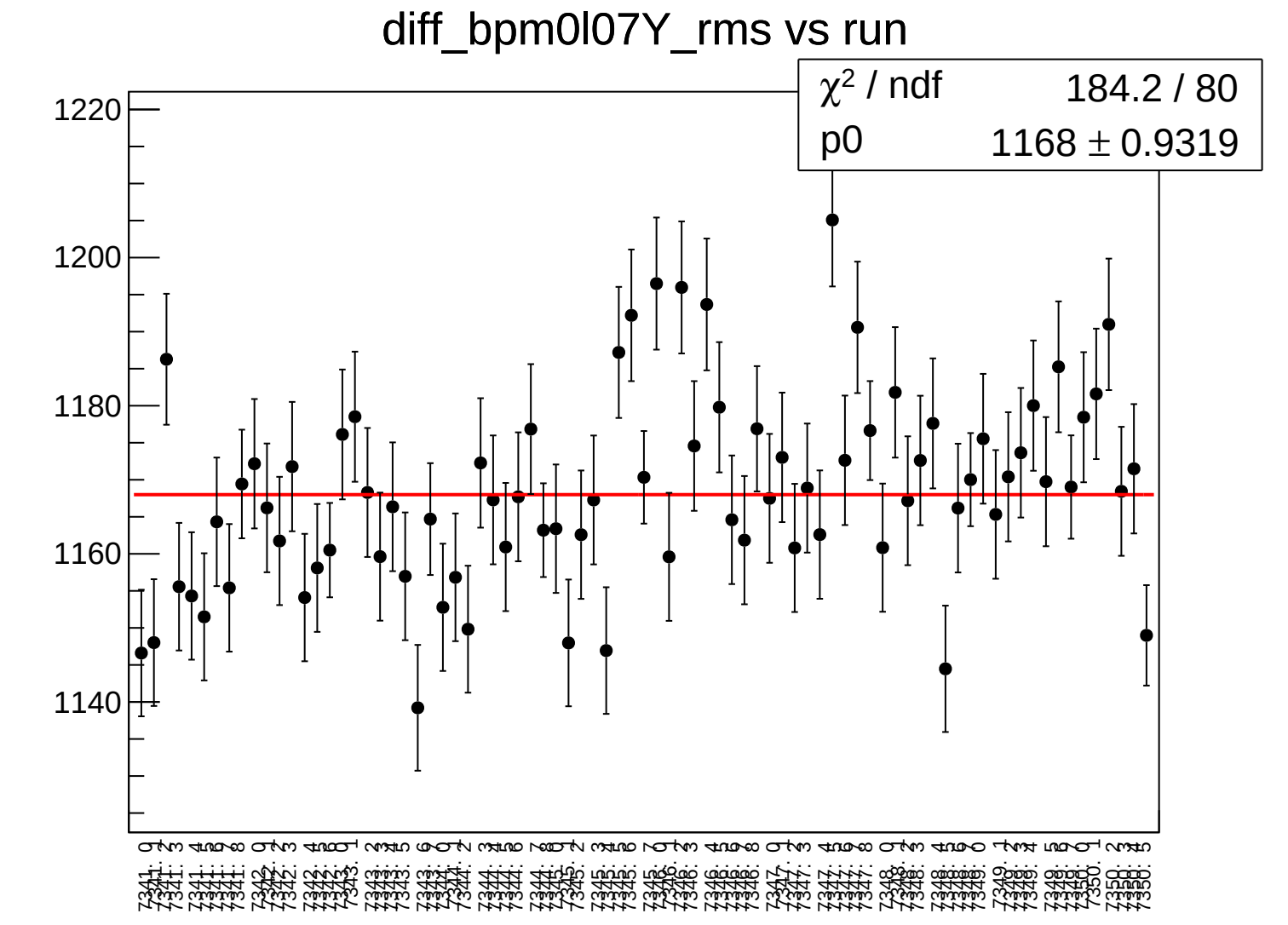

diff_bpm0l07X_mean vs run
χ² / ndf 95.14 / 80
p0 −22.67 ± 13.59
pull
Entries 81
Mean −249.8
Std Dev 293.3

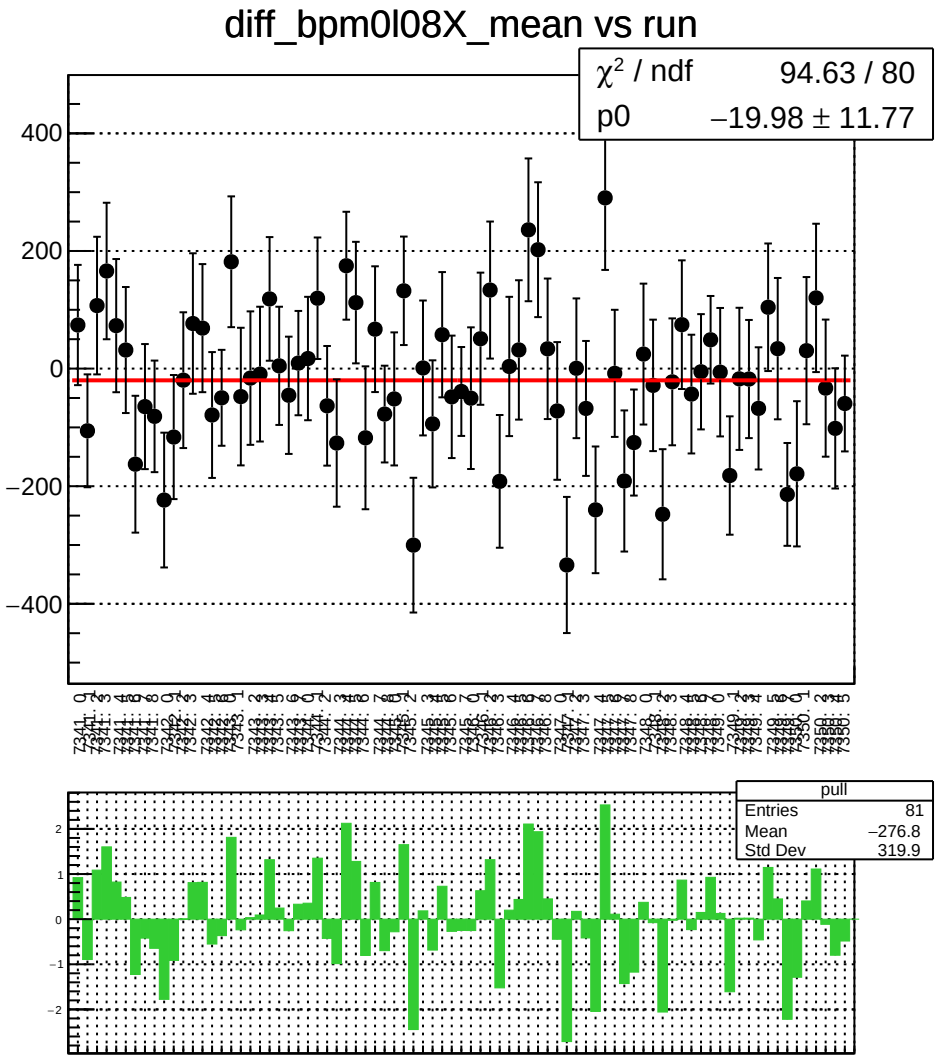

pull1D
Entries 81
Mean 0.01141
Std Dev 1.084

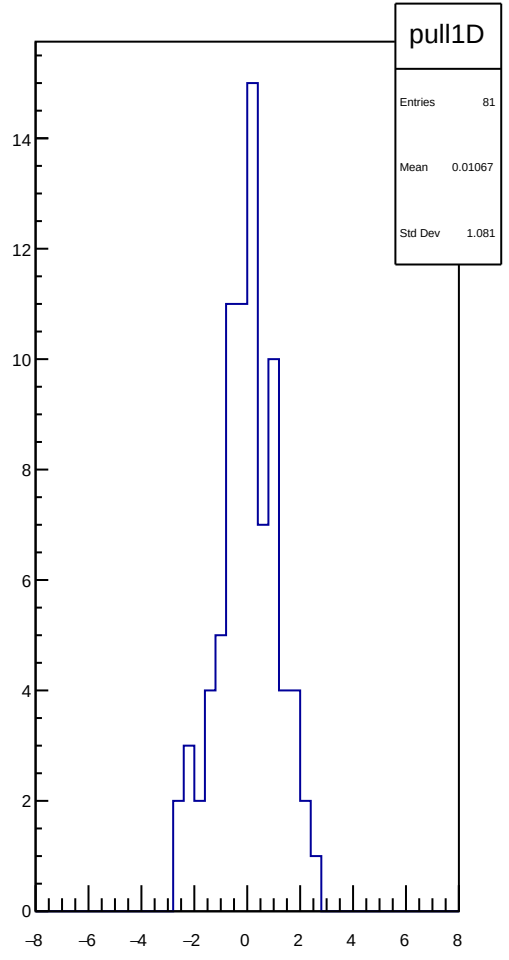

diff_bpm0l07X_rms vs run
χ² / ndf 7657 / 80
p0 1.201e+04 ± 9.609
14000
13500
13000
12500
12000
11500
11000
10500
10000

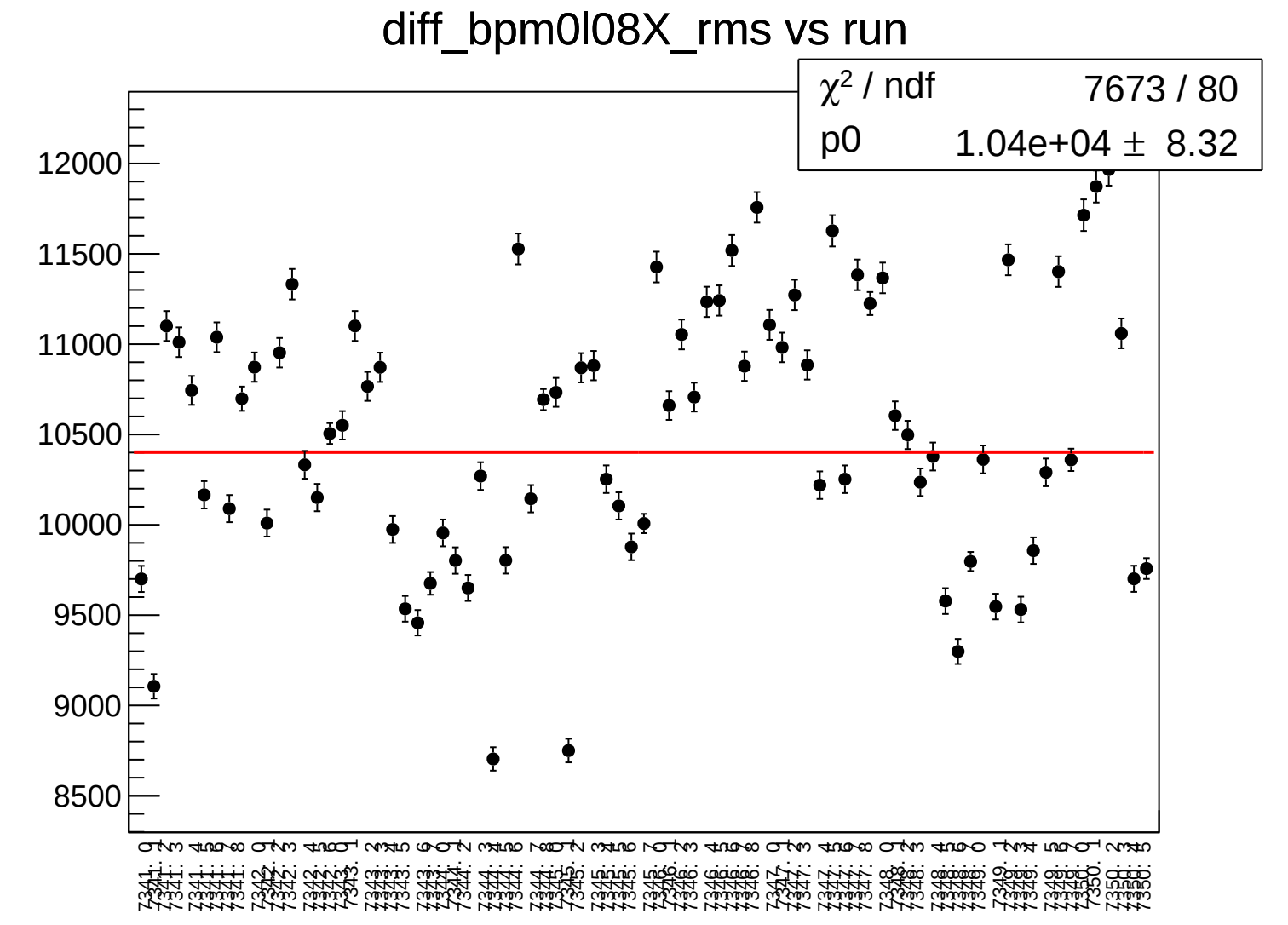

diff_bpm0l07Y_mean vs run
χ² / ndf 76.48 / 80
p0 4.418 ± 1.318
pull
Entries 81
Mean 2296
Std Dev 2246

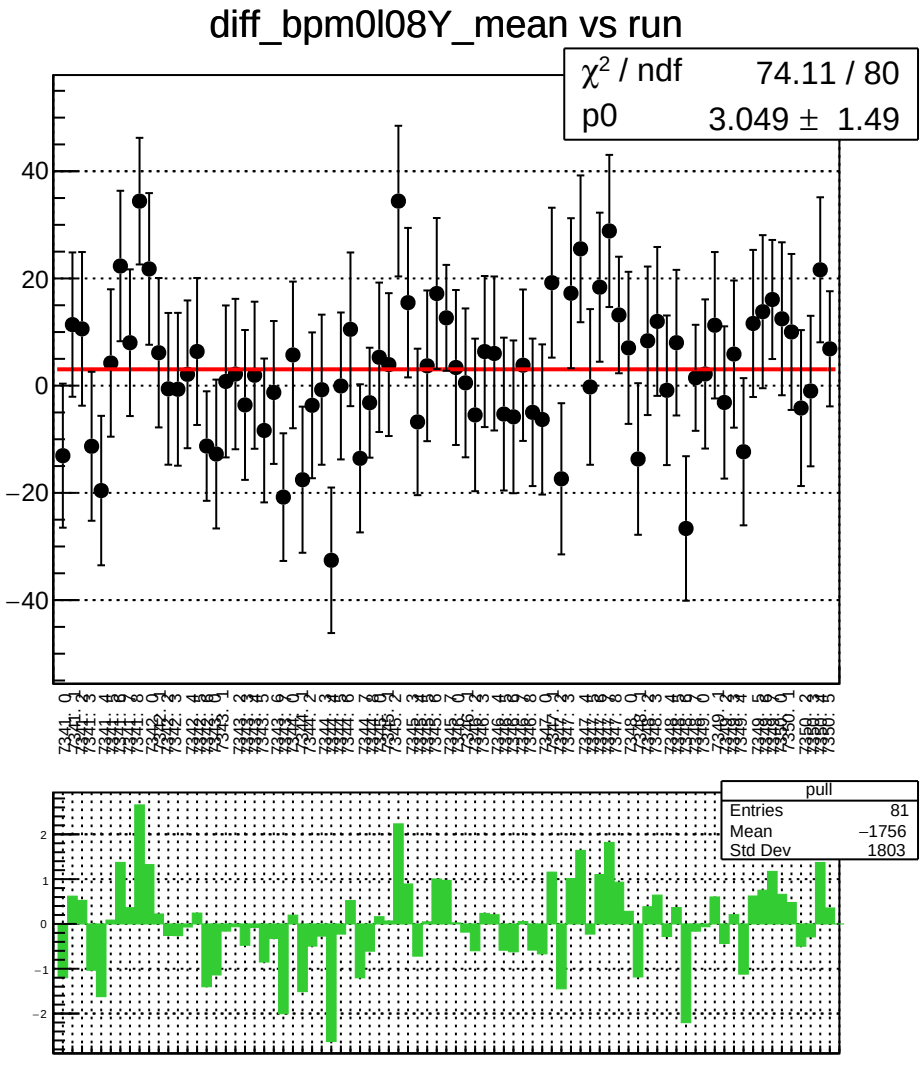

pull1D
Entries 81
Mean 0.001865
Std Dev 0.9717

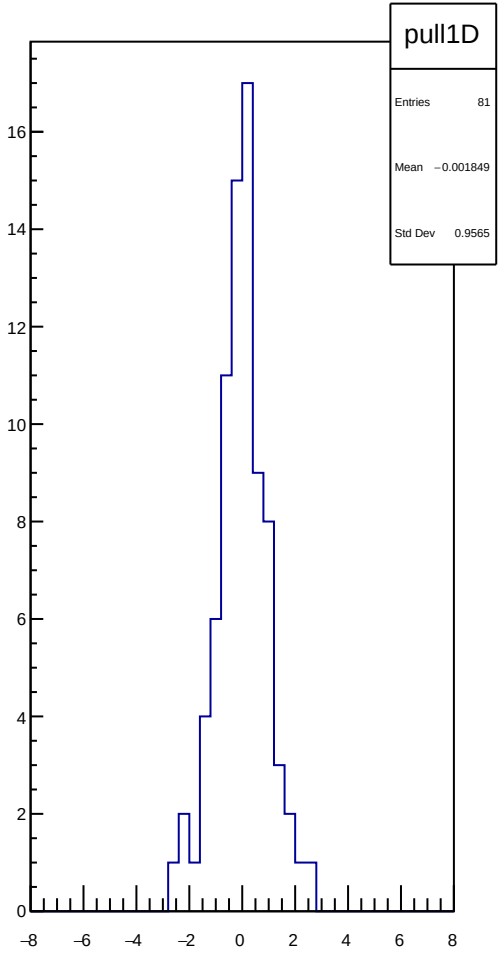

diff_bpm0l07Y_rms vs run
χ² / ndf 184.2 / 80
p0 1168 ± 0.9319
1220
1200
1180
1160
1140

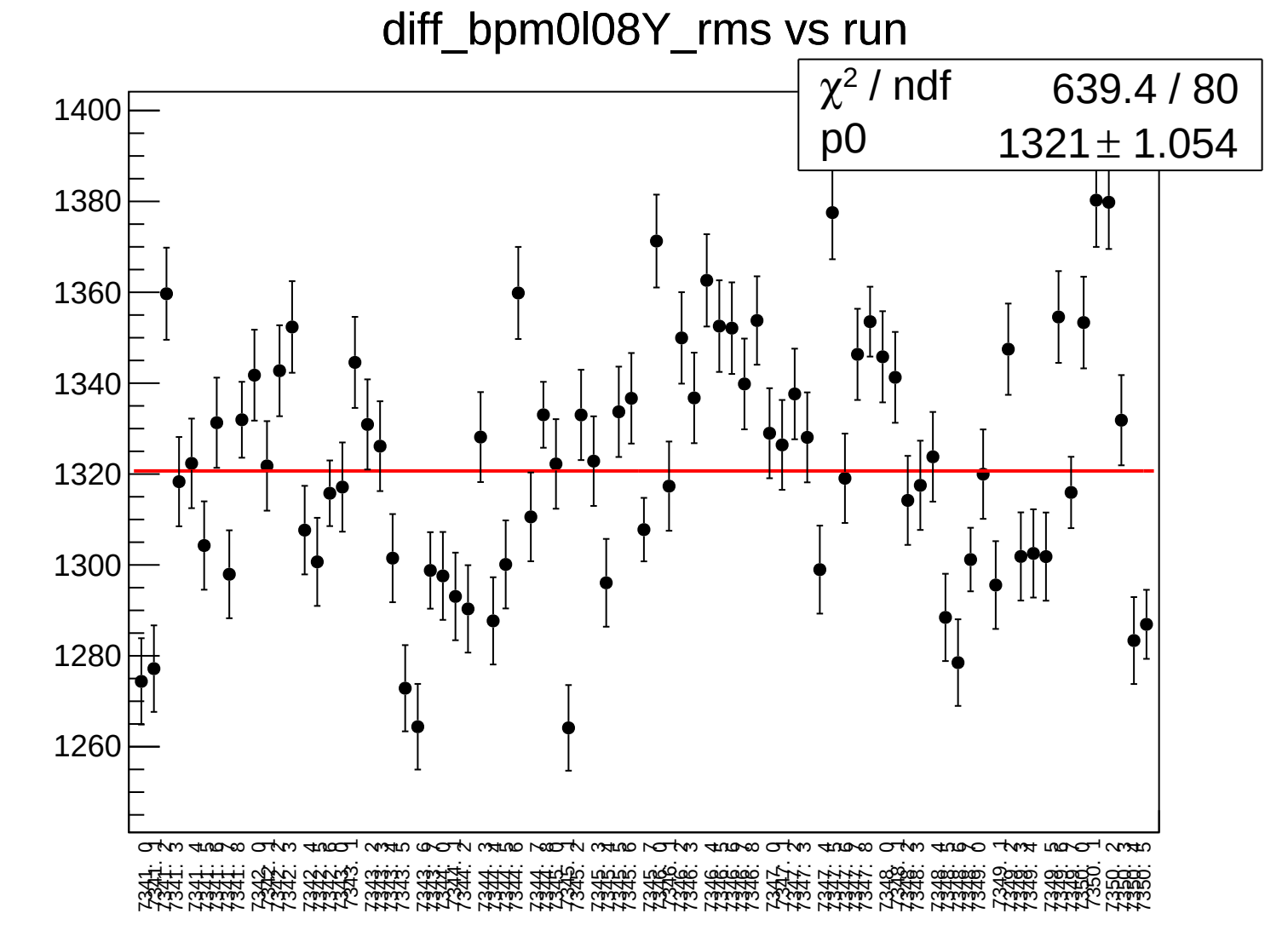

diff_bpm0l08X_mean vs run
χ² / ndf 94.63 / 80
p0 −19.98 ± 11.77
400
200
0
−200
−400
pull
Entries 81
Mean −276.8
Std Dev 319.9
2
1
0
−1
−2

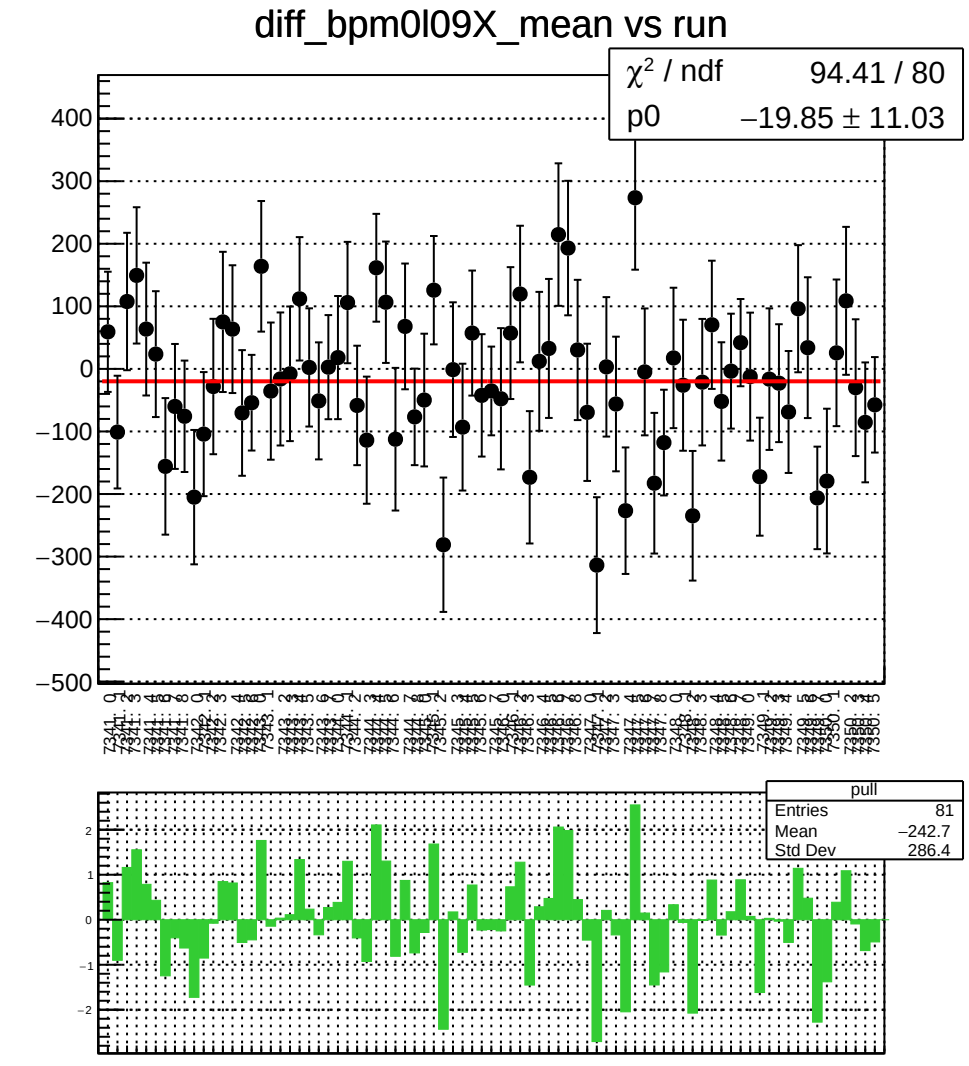

pull1D
Entries 81
Mean 0.01067
Std Dev 1.081
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

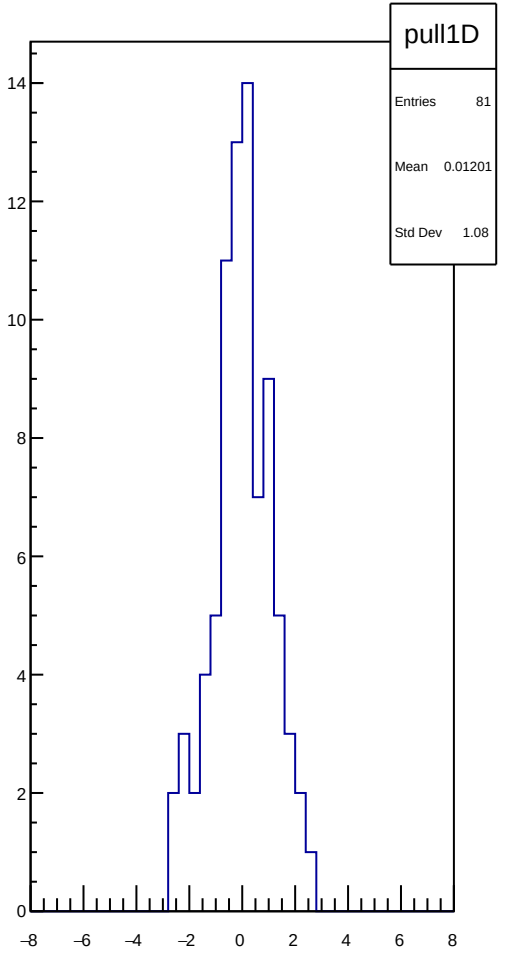

diff_bpm0l08X_rms vs run
χ² / ndf 7673 / 80
p0 1.04e+04 ± 8.32
12000
11500
11000
10500
10000
9500
9000
8500

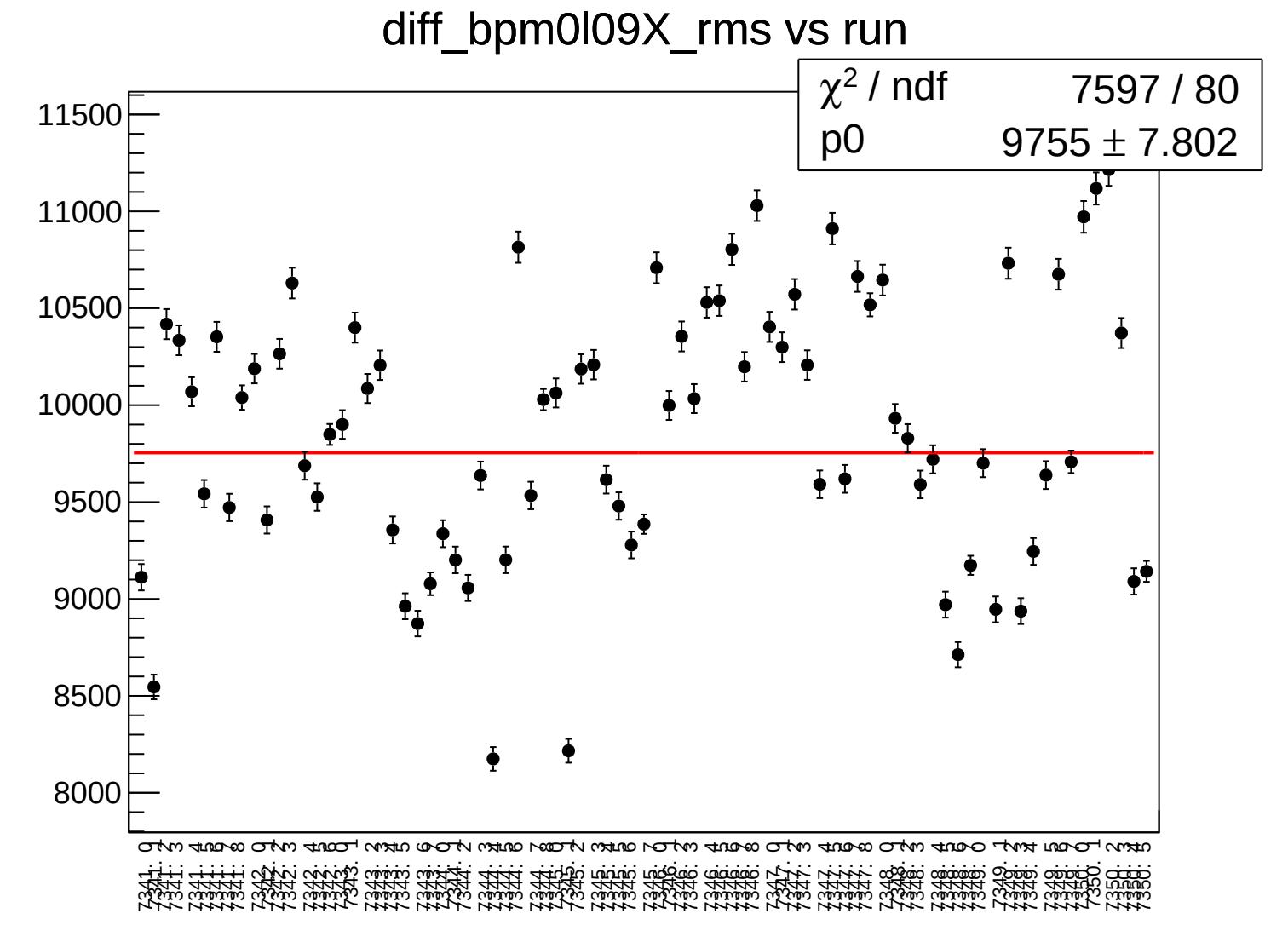

diff_bpm0l08Y_mean vs run
χ² / ndf 74.11 / 80
p0 3.049 ± 1.49
pull
Entries 81
Mean −1756
Std Dev 1803

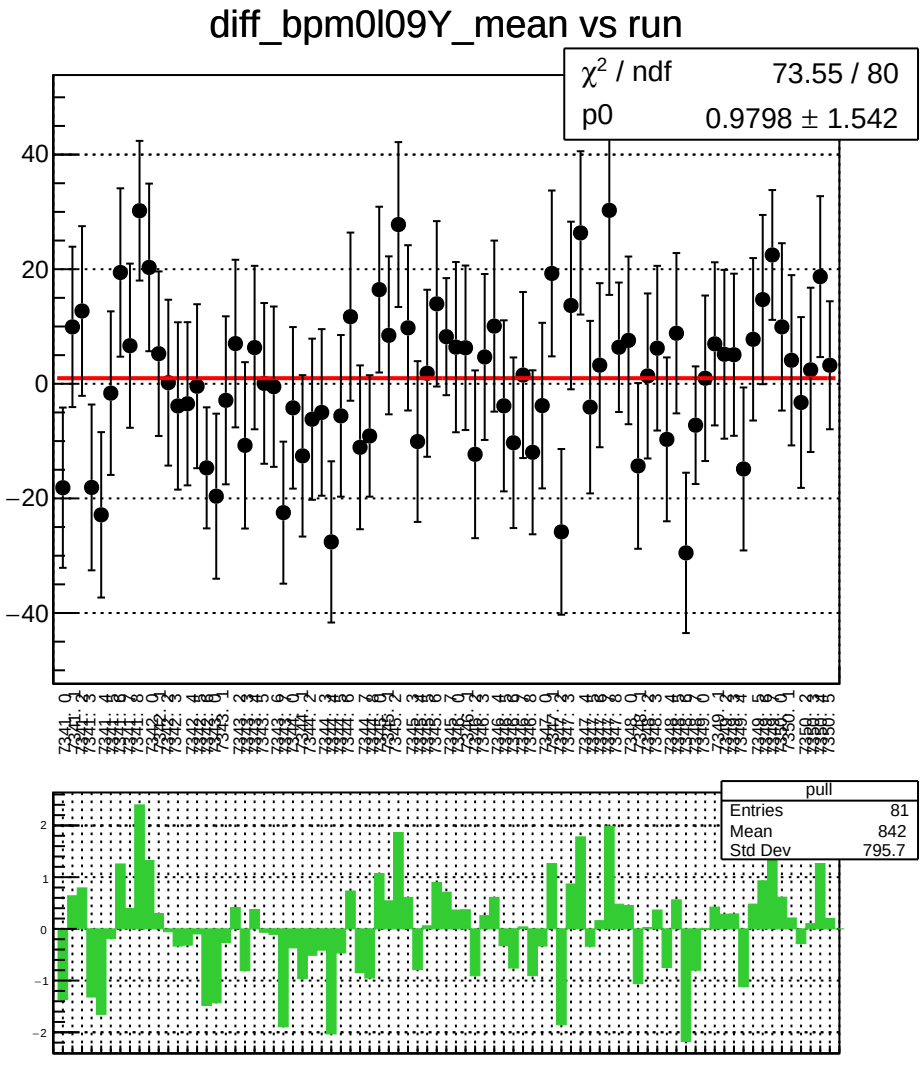

pull1D
Entries 81
Mean −0.001849
Std Dev 0.9565

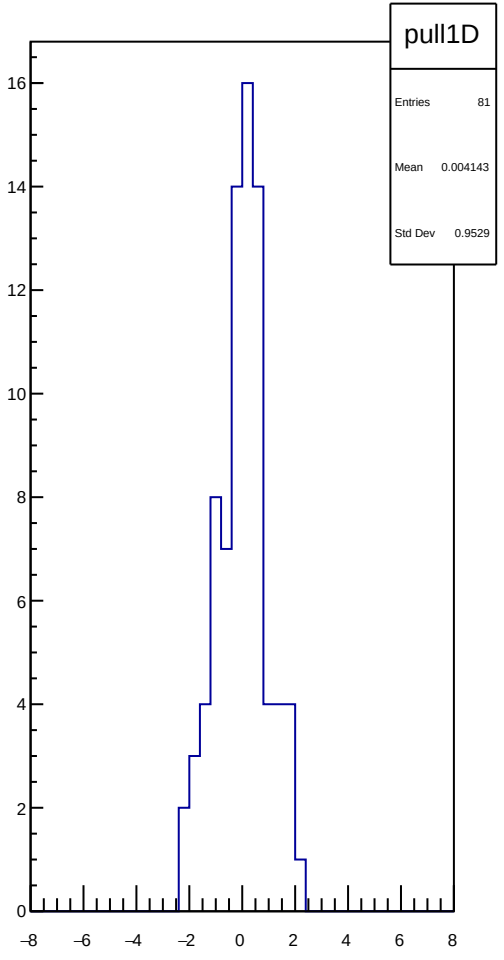

diff_bpm0l08Y_rms vs run
χ² / ndf 639.4 / 80
p0 1321 ± 1.054
1400
1380
1360
1340
1320
1300
1280
1260

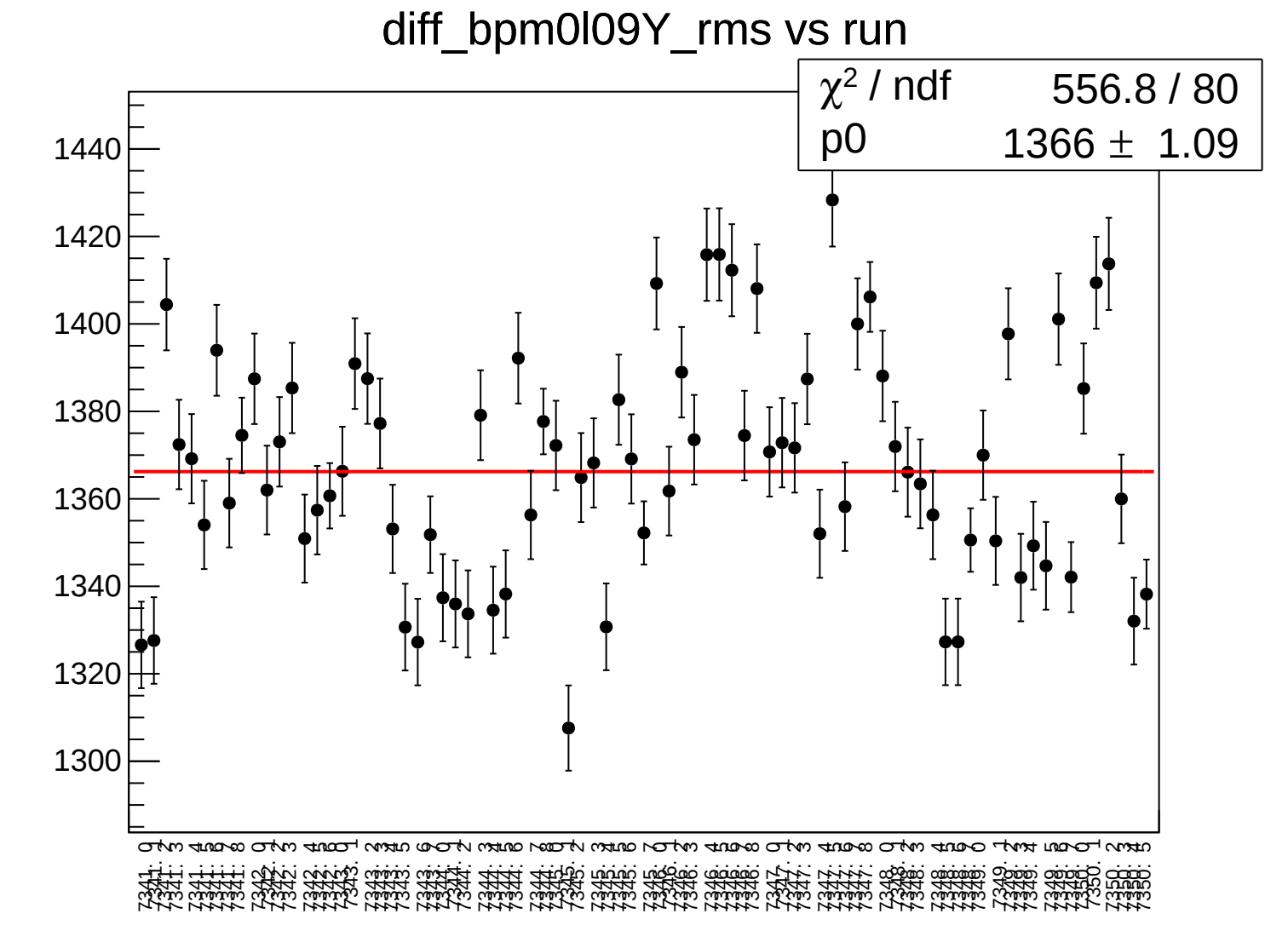

diff_bpm0l09X_mean vs run
χ² / ndf 94.41 / 80
p0 −19.85 ± 11.03
pull
Entries 81
Mean −242.7
Std Dev 286.4

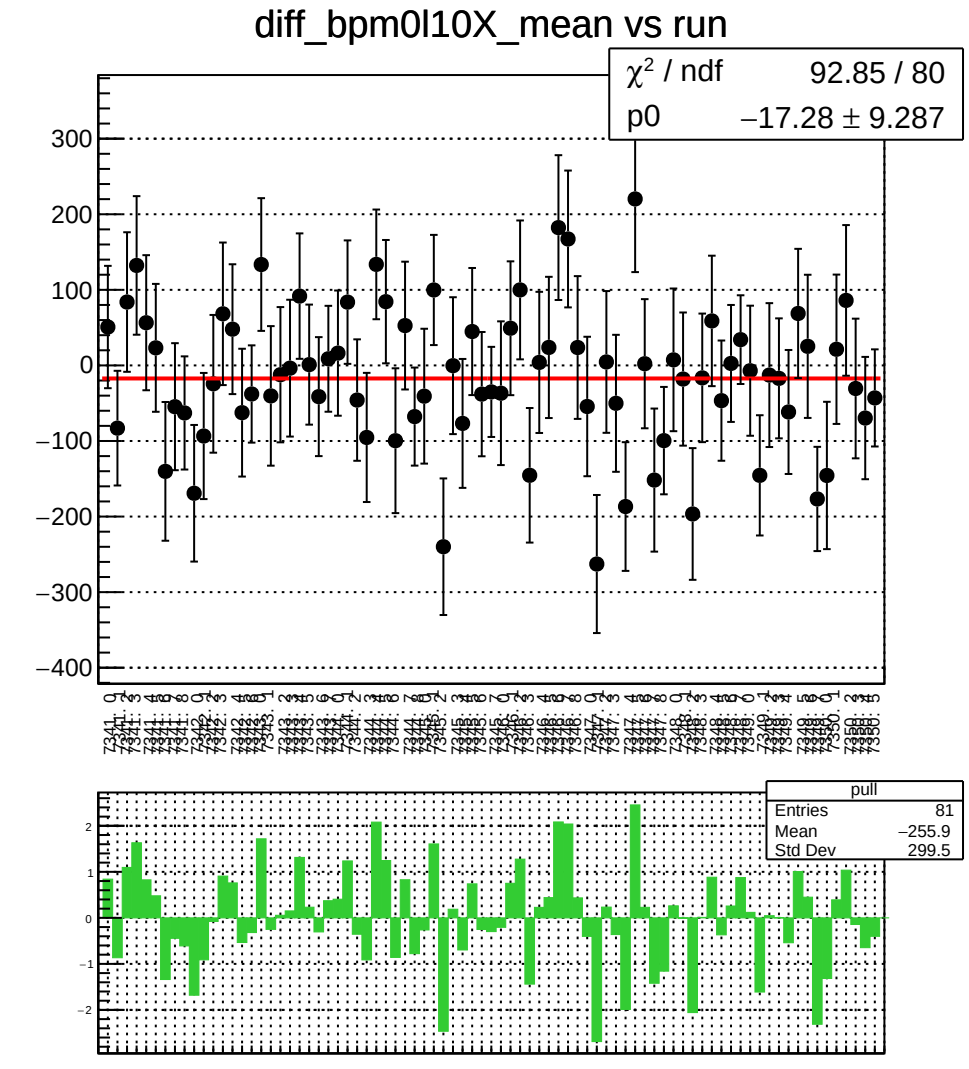

pull1D
Entries 81
Mean 0.01201
Std Dev 1.08

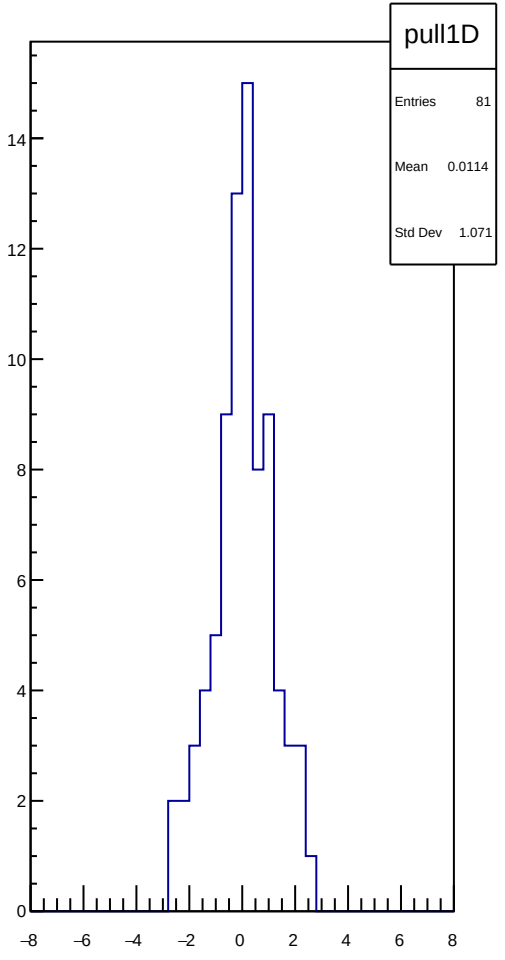

diff_bpm0l09X_rms vs run
χ² / ndf 7597 / 80
p0 9755 ± 7.802
11500
11000
10500
10000
9500
9000
8500
8000

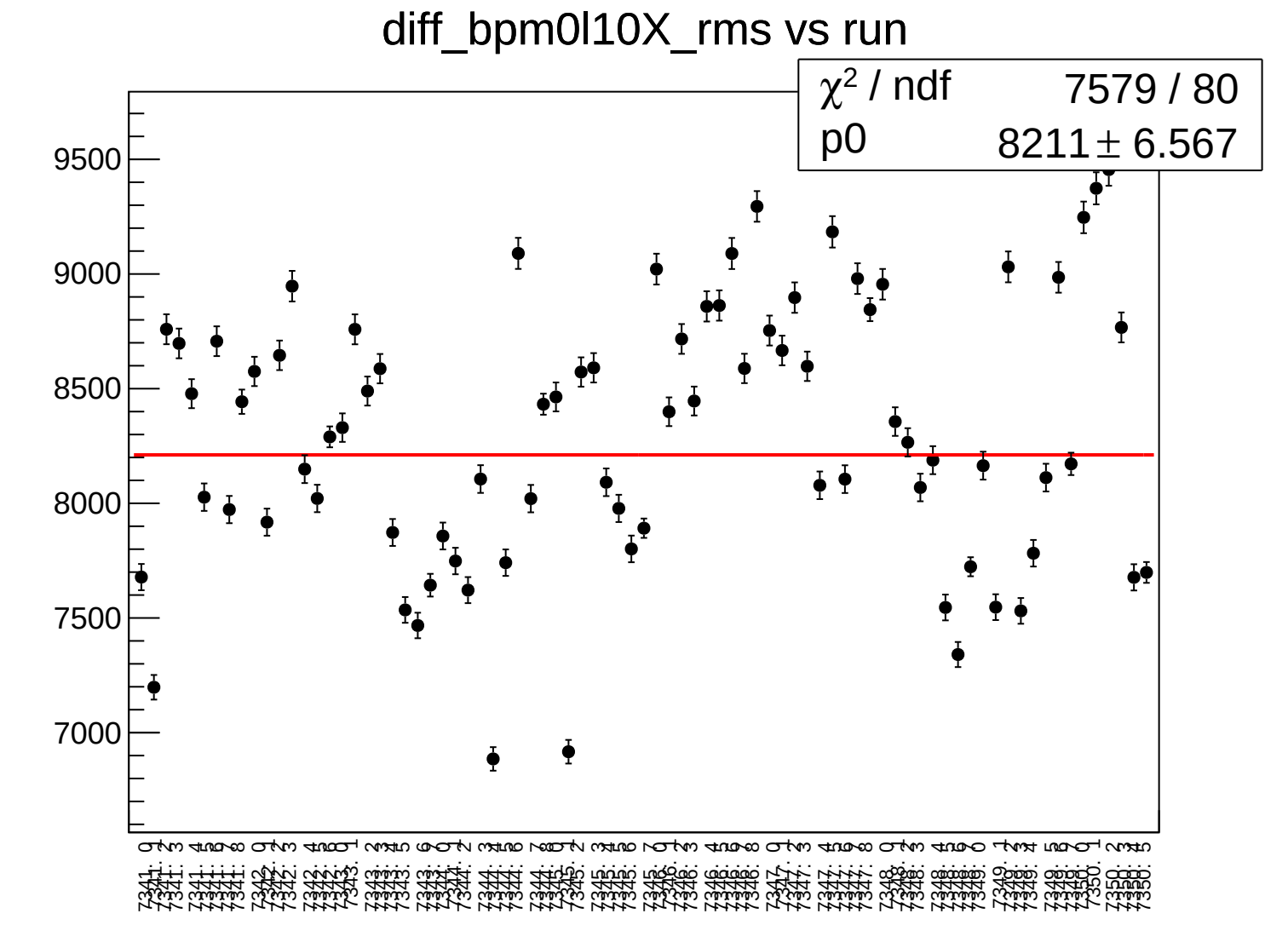

diff_bpm0l09Y_mean vs run
χ² / ndf 73.55 / 80
p0 0.9798 ± 1.542
pull
Entries 81
Mean 842
Std Dev 795.7

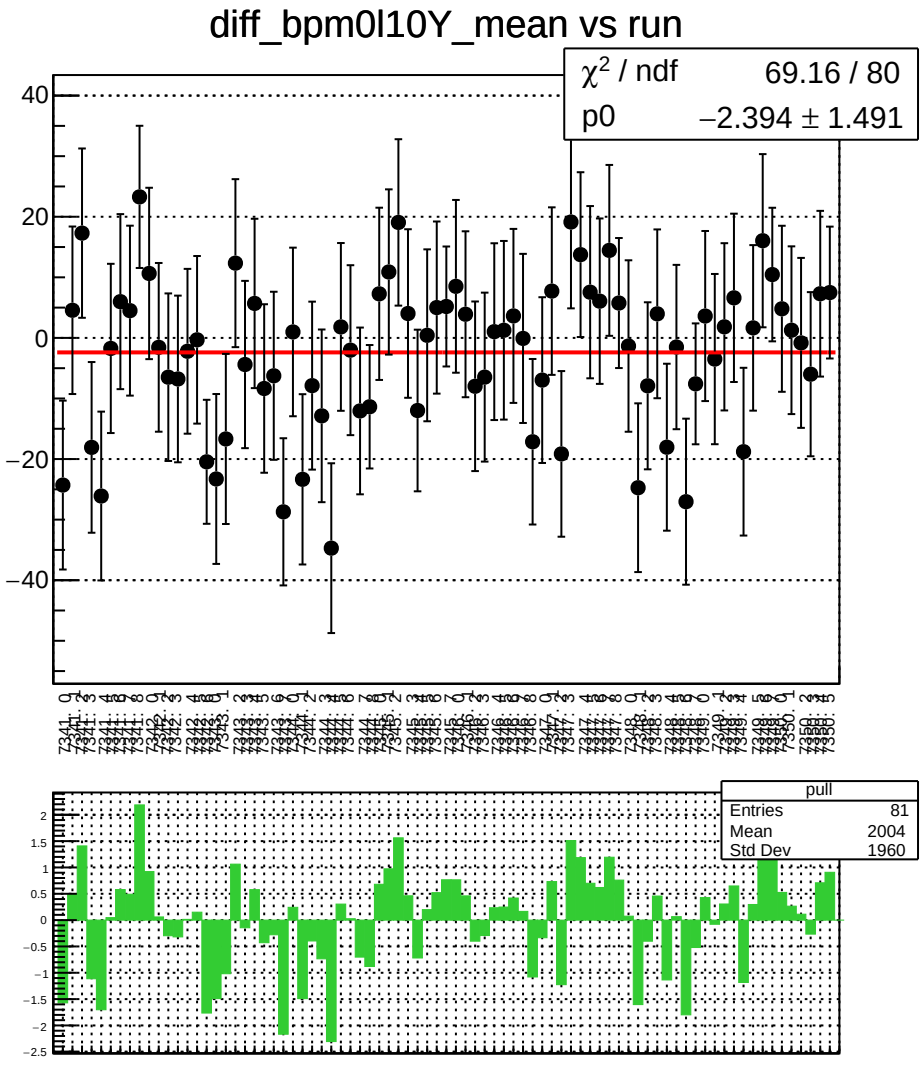

pull1D
Entries 81
Mean 0.004143
Std Dev 0.9529

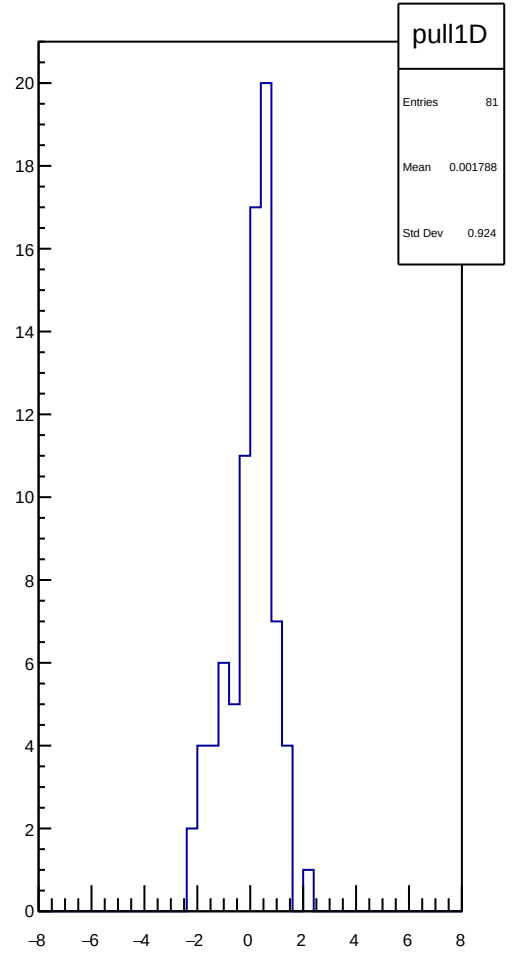

diff_bpm0l09Y_rms vs run
χ² / ndf 556.8 / 80
p0 1366 ± 1.09
1440
1420
1400
1380
1360
1340
1320
1300

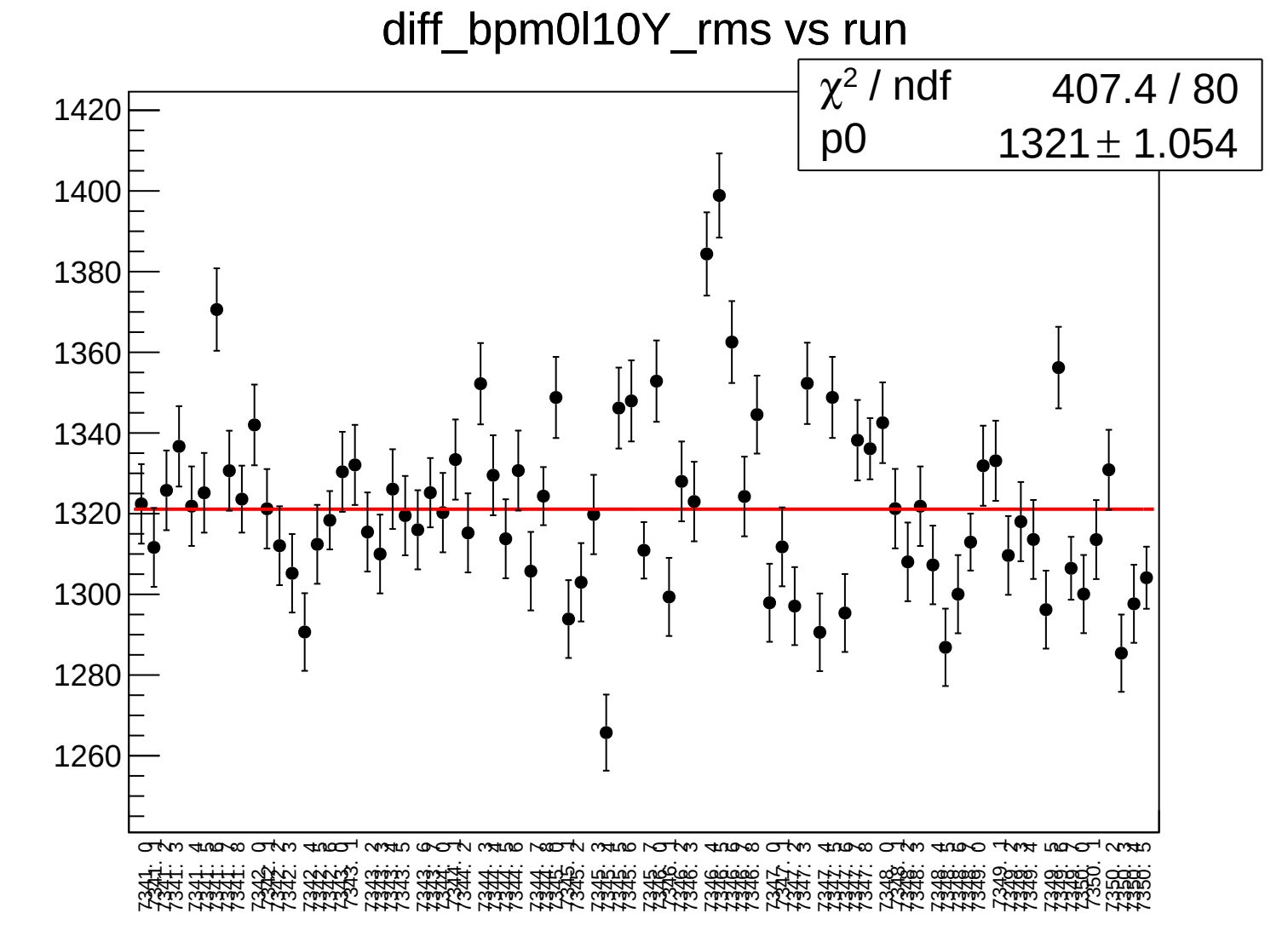

diff_bpm0l10X_mean vs run
χ² / ndf 92.85 / 80
p0 −17.28 ± 9.287
pull
Entries 81
Mean −255.9
Std Dev 299.5

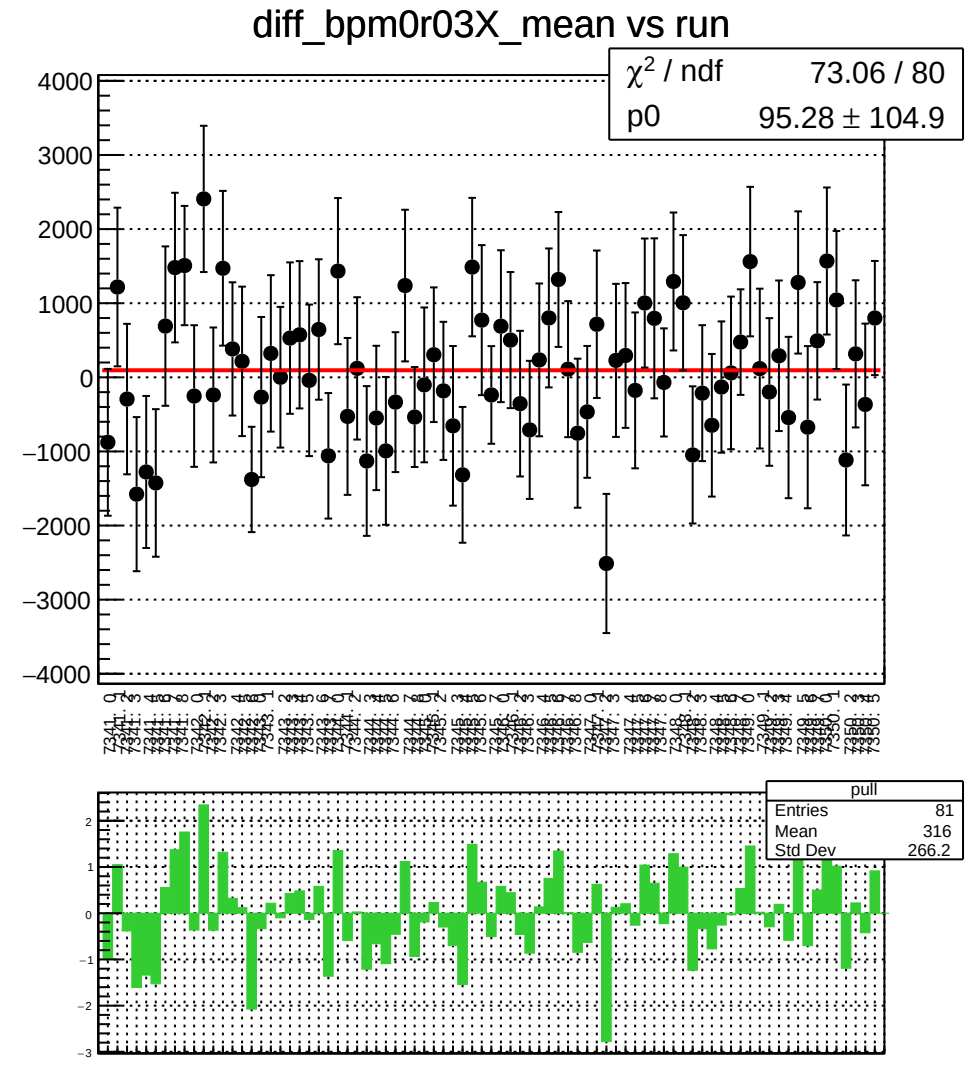

pull1D
Entries 81
Mean 0.0114
Std Dev 1.071

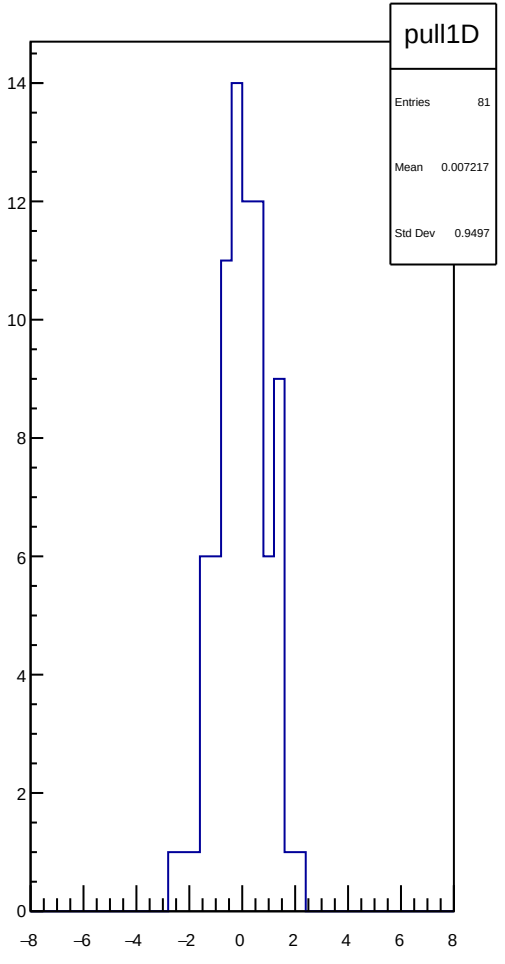

diff_bpm0l10X_rms vs run
χ² / ndf 7579 / 80
p0 8211 ± 6.567
9500
9000
8500
8000
7500
7000

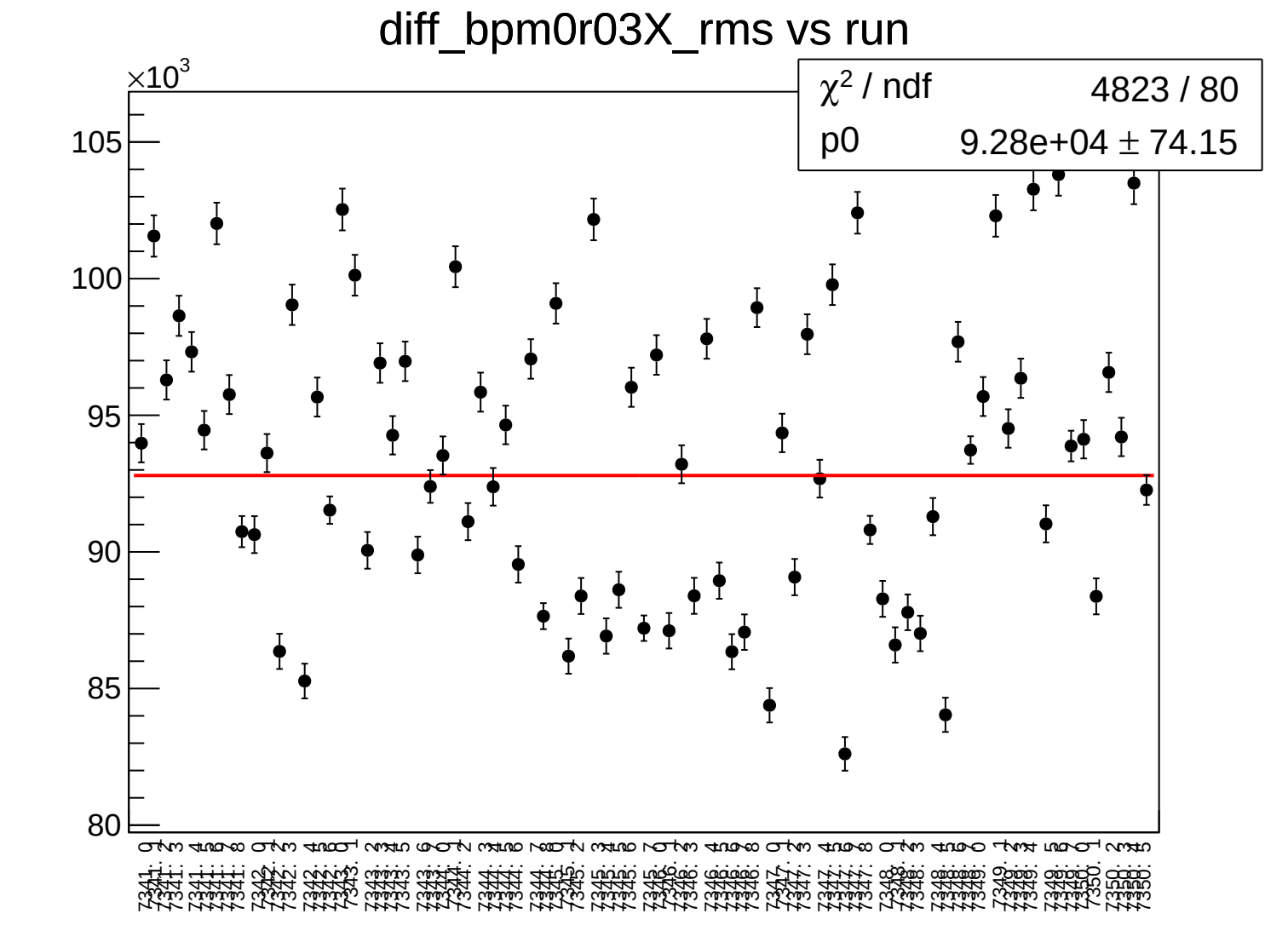

diff_bpm0l10Y_mean vs run
χ^2 / ndf 69.16 / 80
p0 −2.394 ± 1.491
pull
Entries 81
Mean 2004
Std Dev 1960

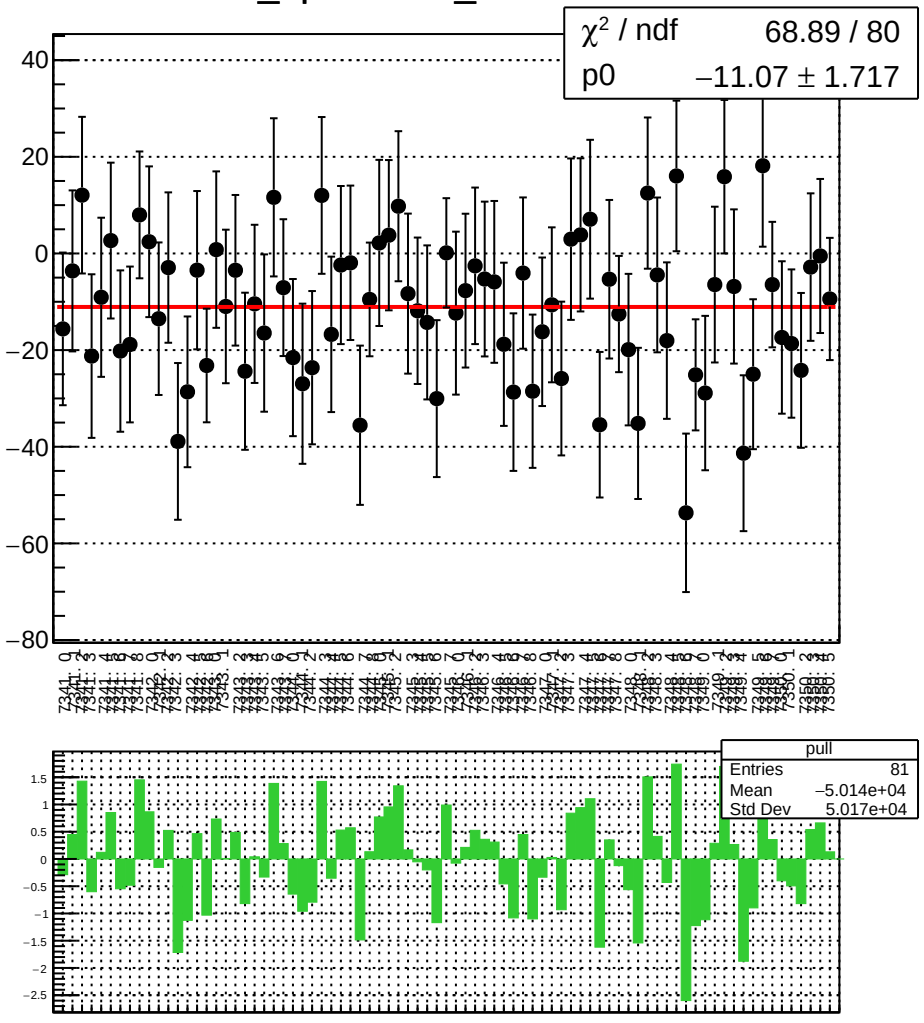

pull1D
Entries 81
Mean 0.001788
Std Dev 0.924

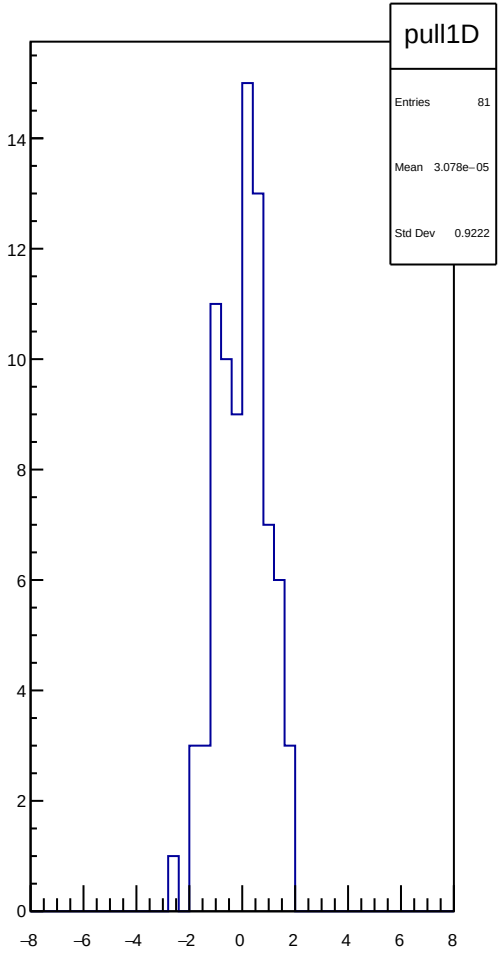

diff_bpm0l10Y_rms vs run
χ² / ndf 407.4 / 80
p0 1321 ± 1.054
1420
1400
1380
1360
1340
1320
1300
1280
1260

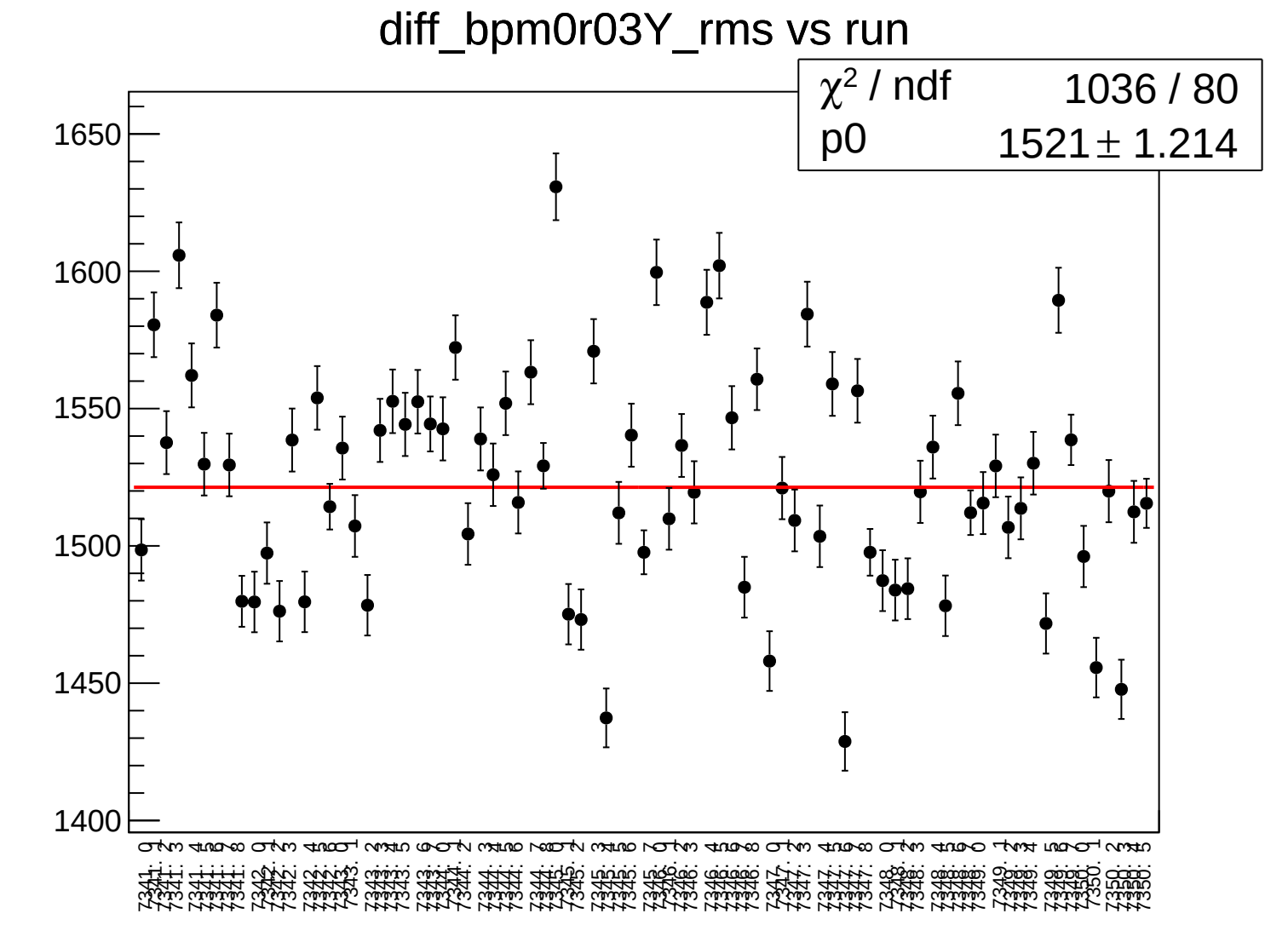

diff_bpm0r03X_mean vs run
χ² / ndf 73.06 / 80
p0 95.28 ± 104.9
pull
Entries 81
Mean 316
Std Dev 266.2

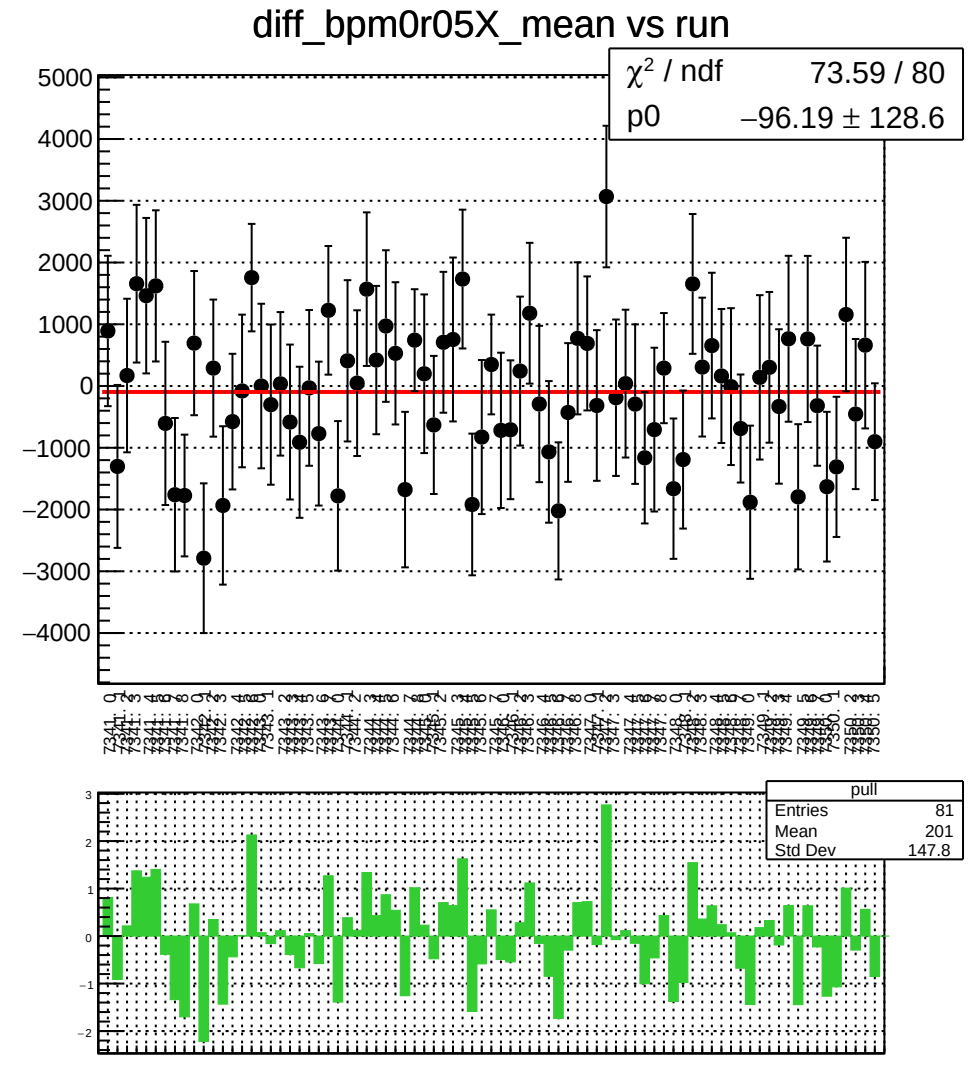

pull1D
Entries 81
Mean 0.007217
Std Dev 0.9497

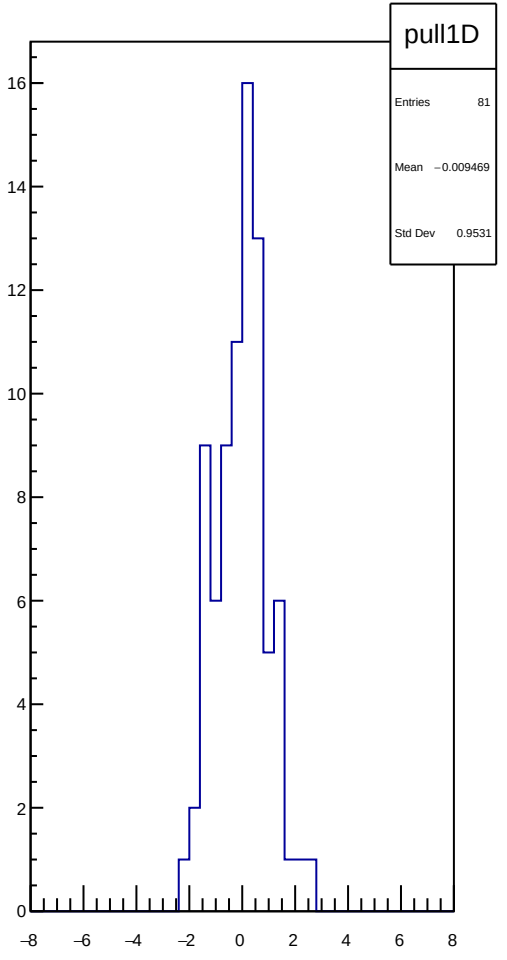

diff_bpm0r03X_rms vs run
×10^3
χ² / ndf 4823 / 80
p0 9.28e+04 ± 74.15
105
100
95
90
85
80

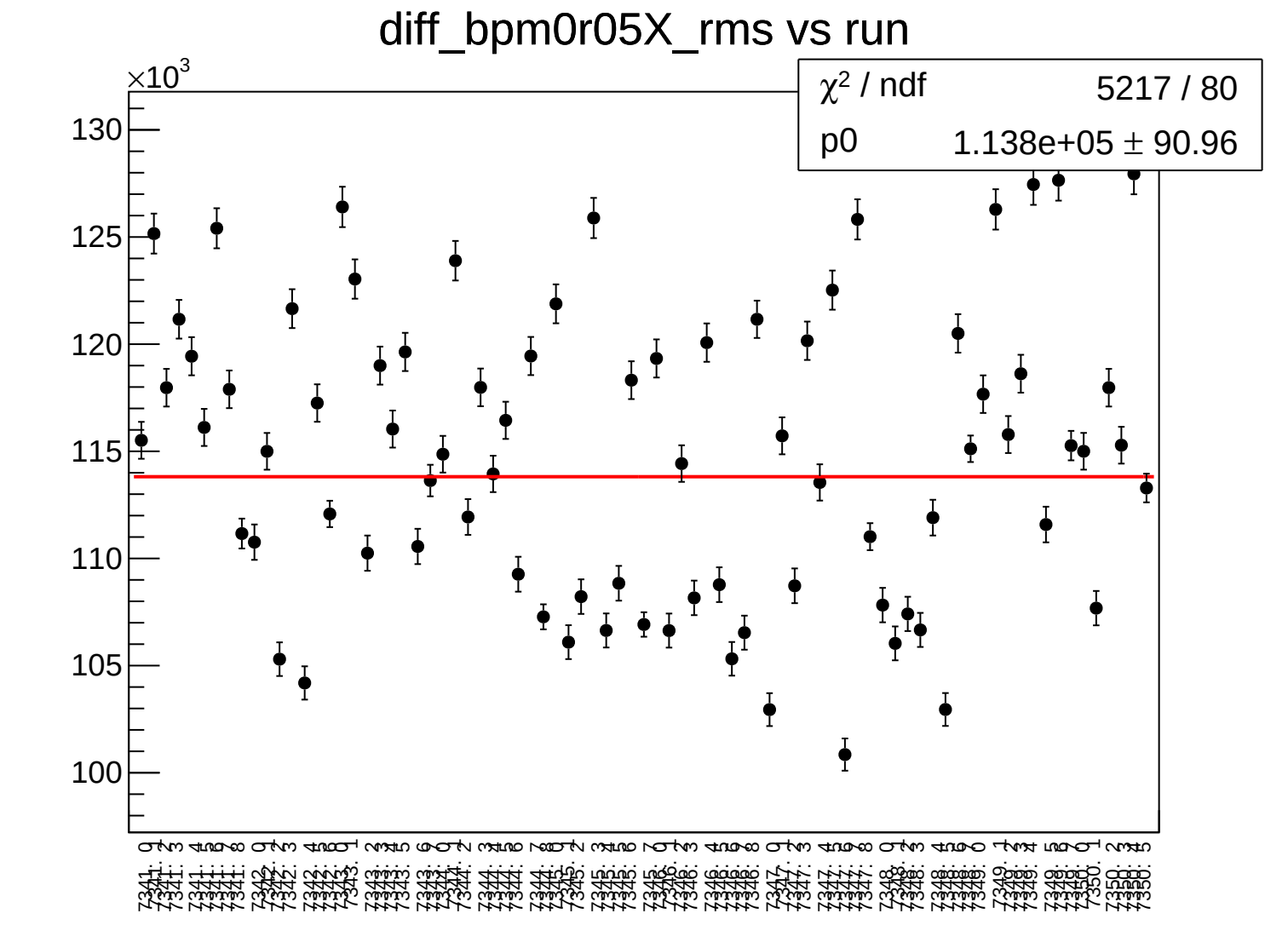

diff_bpm0r03Y_mean vs run
χ² / ndf 68.89 / 80
p0 −11.07 ± 1.717
pull
Entries 81
Mean −5.014e+04
Std Dev 5.017e+04

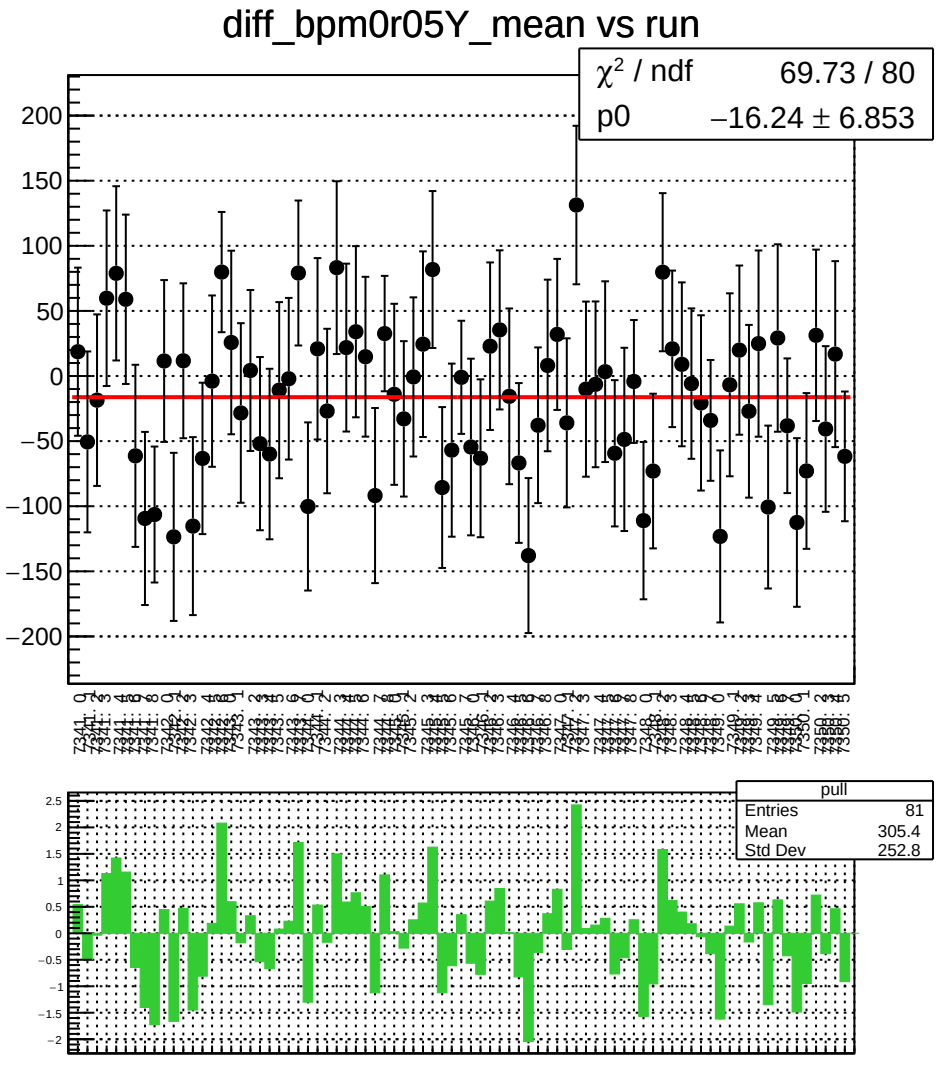

pull1D
Entries 81
Mean 3.078e−05
Std Dev 0.9222

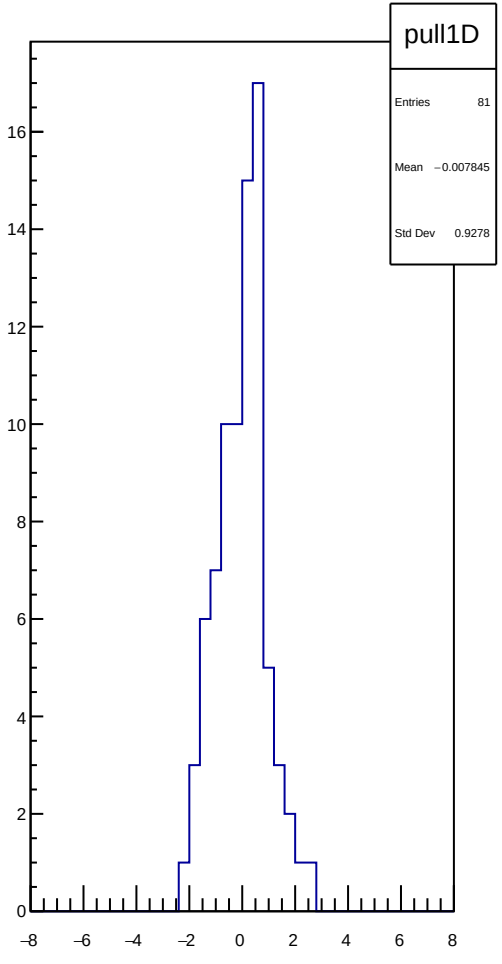

diff_bpm0r03Y_rms vs run
χ² / ndf 1036 / 80
p0 1521 ± 1.214
1650
1600
1550
1500
1450
1400

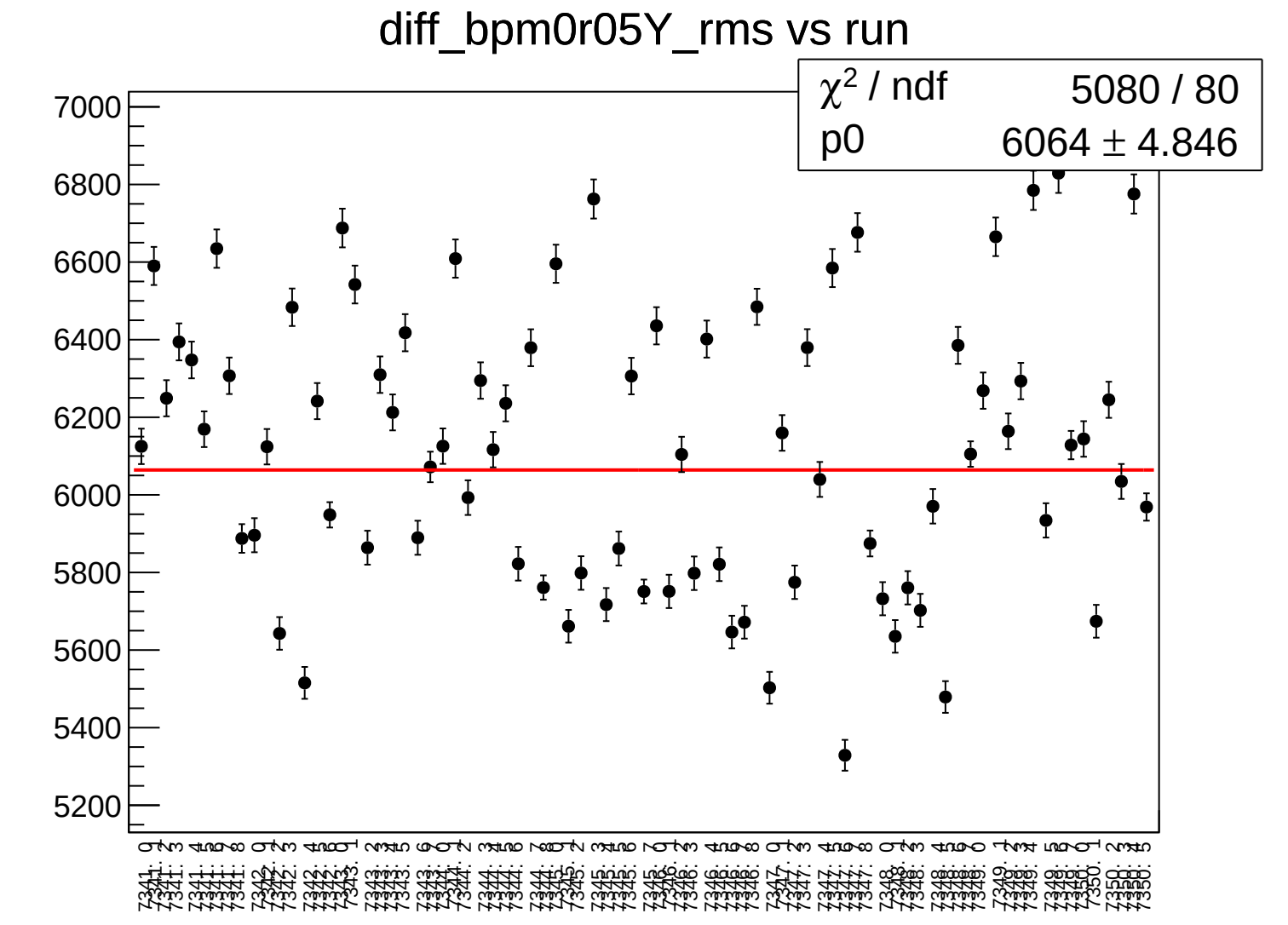

diff_bpm0r05X_mean vs run
χ² / ndf 73.59 / 80
p0 −96.19 ± 128.6
pull
Entries 81
Mean 201
Std Dev 147.8

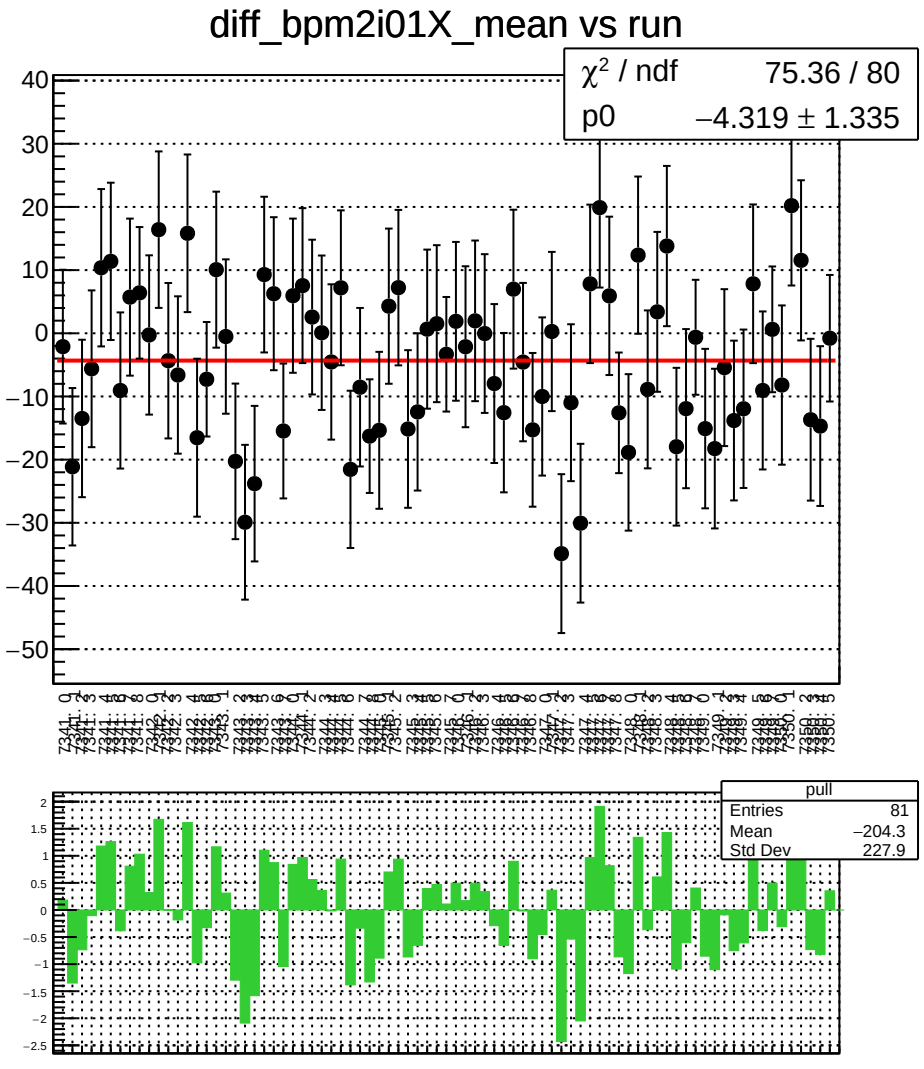

pull1D
Entries 81
Mean −0.009469
Std Dev 0.9531

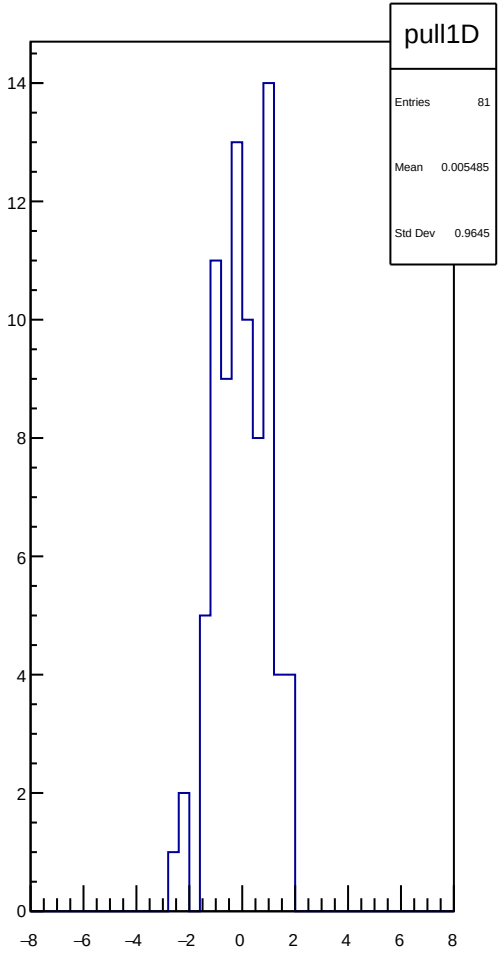

diff_bpm0r05X_rms vs run
×10^3
130
125
120
115
110
105
100
χ² / ndf 5217 / 80
p0 1.138e+05 ± 90.96

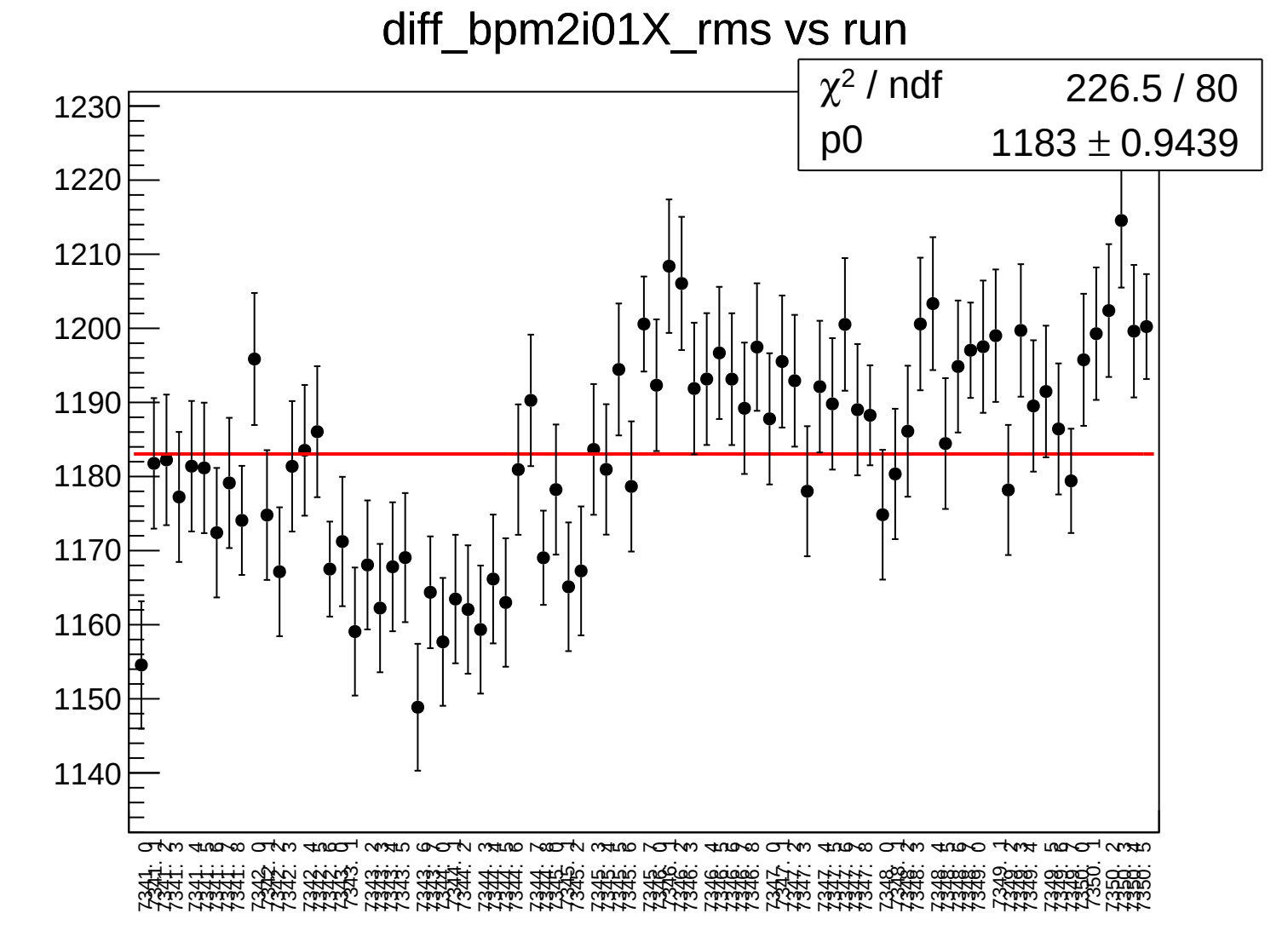

diff_bpm0r05Y_mean vs run
χ^2 / ndf 69.73 / 80
p0 −16.24 ± 6.853
pull
Entries 81
Mean 305.4
Std Dev 252.8

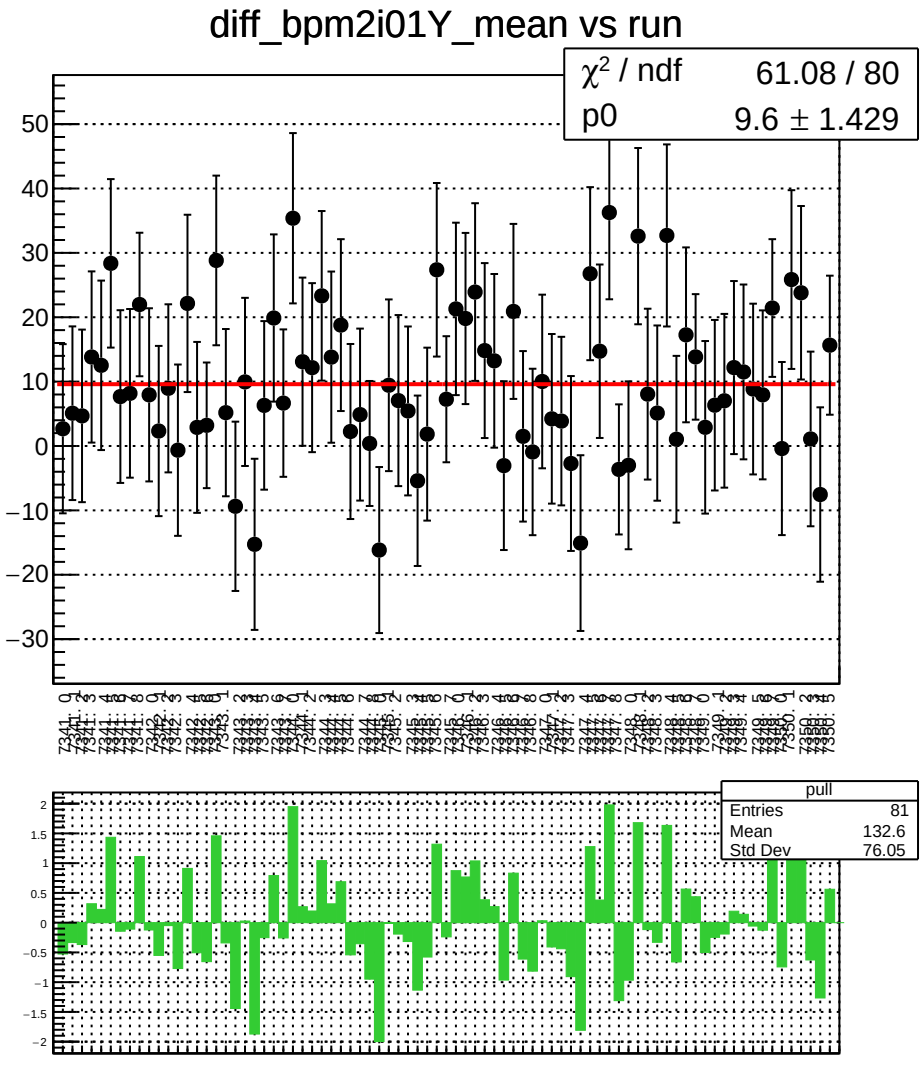

pull1D
Entries 81
Mean −0.007845
Std Dev 0.9278

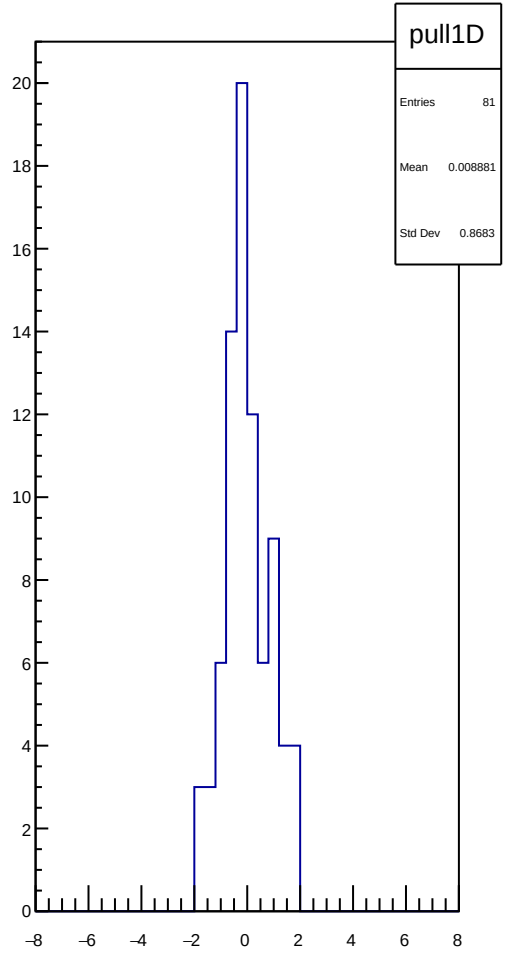

diff_bpm0r05Y_rms vs run
χ^2 / ndf 5080 / 80
p0 6064 ± 4.846
7000
6800
6600
6400
6200
6000
5800
5600
5400
5200

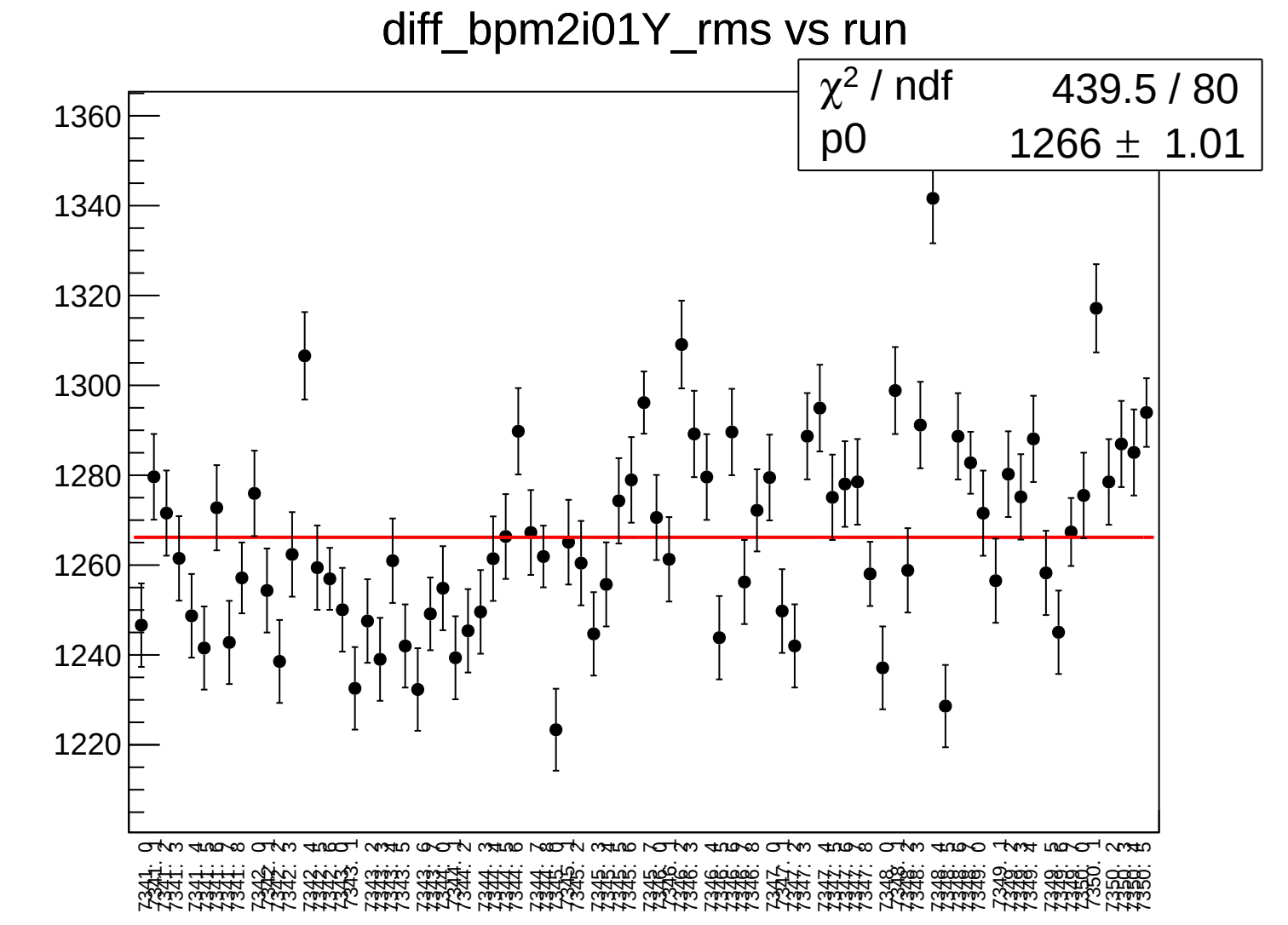

diff_bpm2i01X_mean vs run
χ² / ndf 75.36 / 80
p0 −4.319 ± 1.335
pull
Entries 81
Mean −204.3
Std Dev 227.9

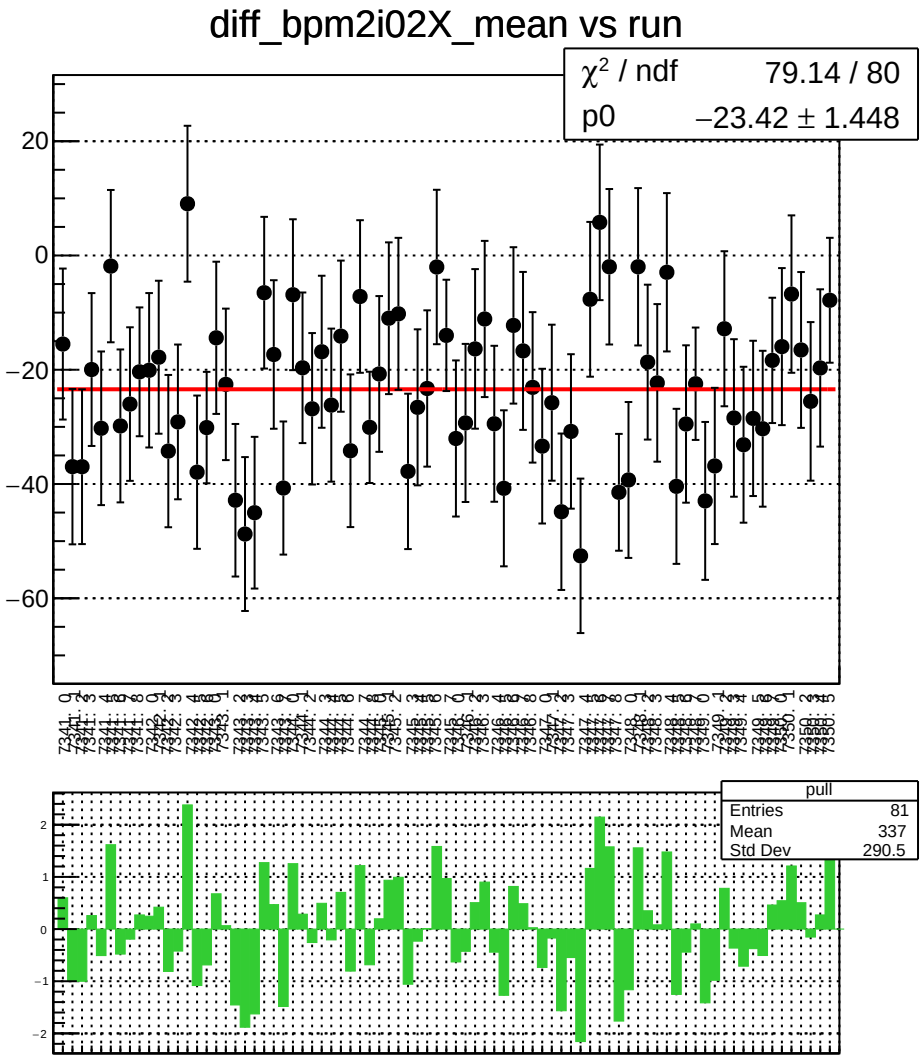

pull1D
Entries 81
Mean 0.005485
Std Dev 0.9645

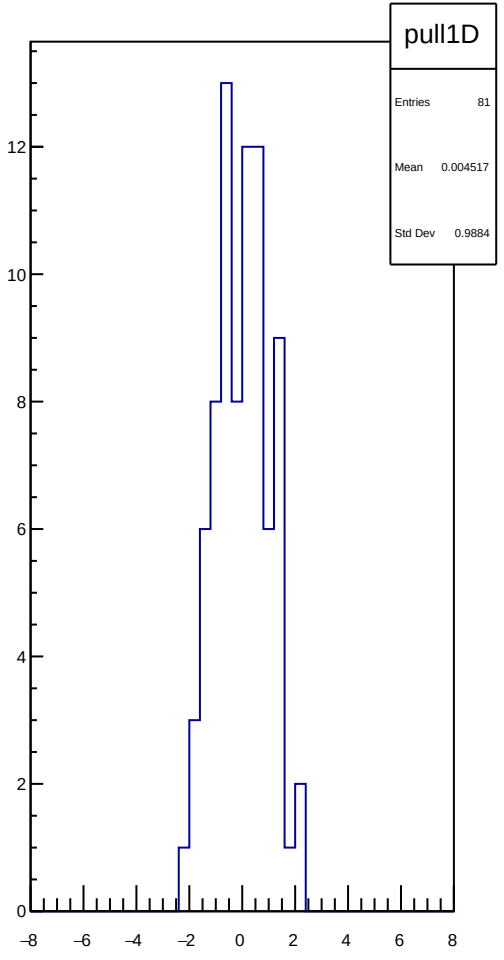

diff_bpm2i01X_rms vs run
χ² / ndf 226.5 / 80
p0 1183 ± 0.9439
1230
1220
1210
1200
1190
1180
1170
1160
1150
1140

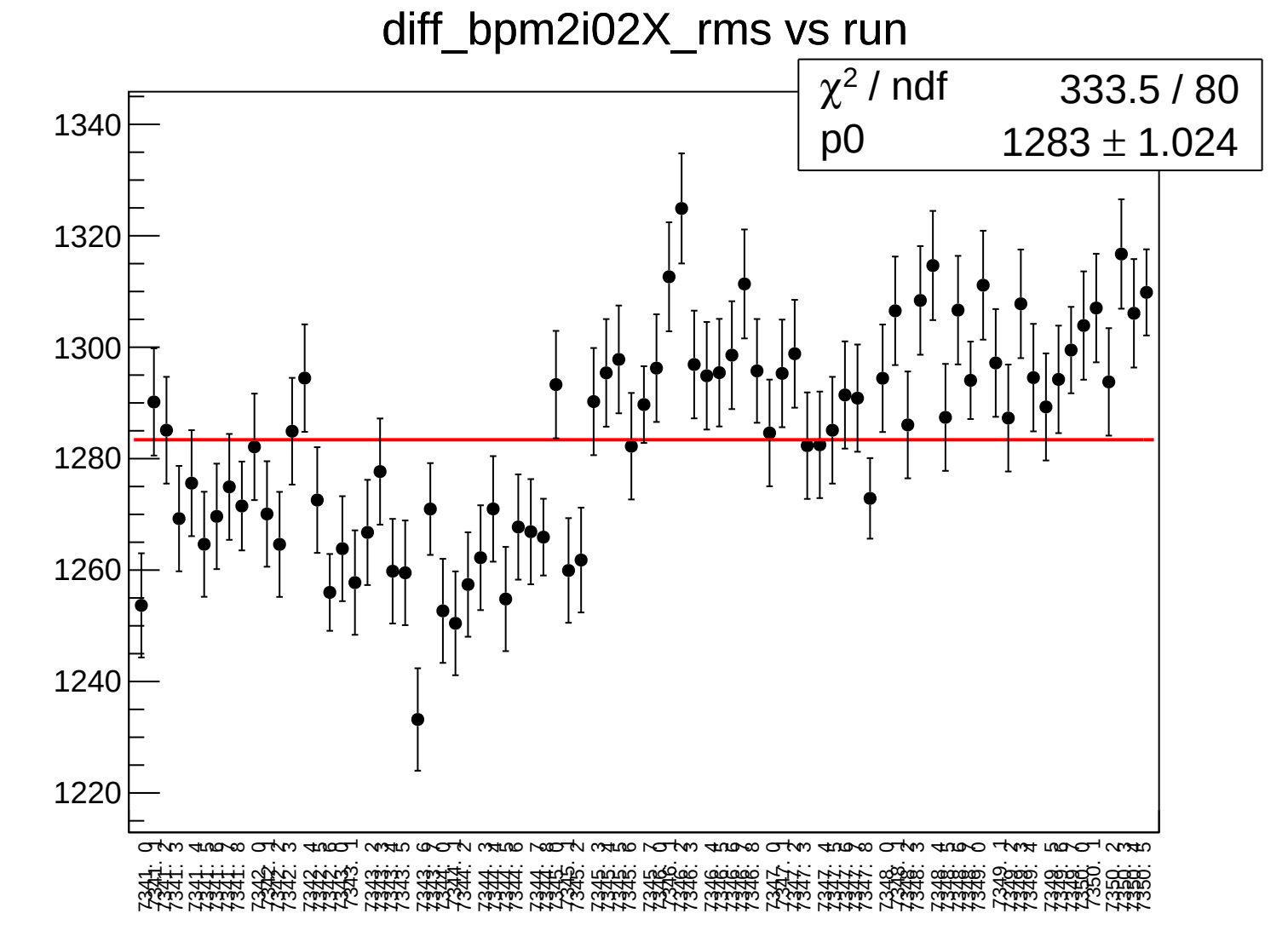

diff_bpm2i01Y_mean vs run
χ^2 / ndf 61.08 / 80
p0 9.6 ± 1.429
pull
Entries 81
Mean 132.6
Std Dev 76.05

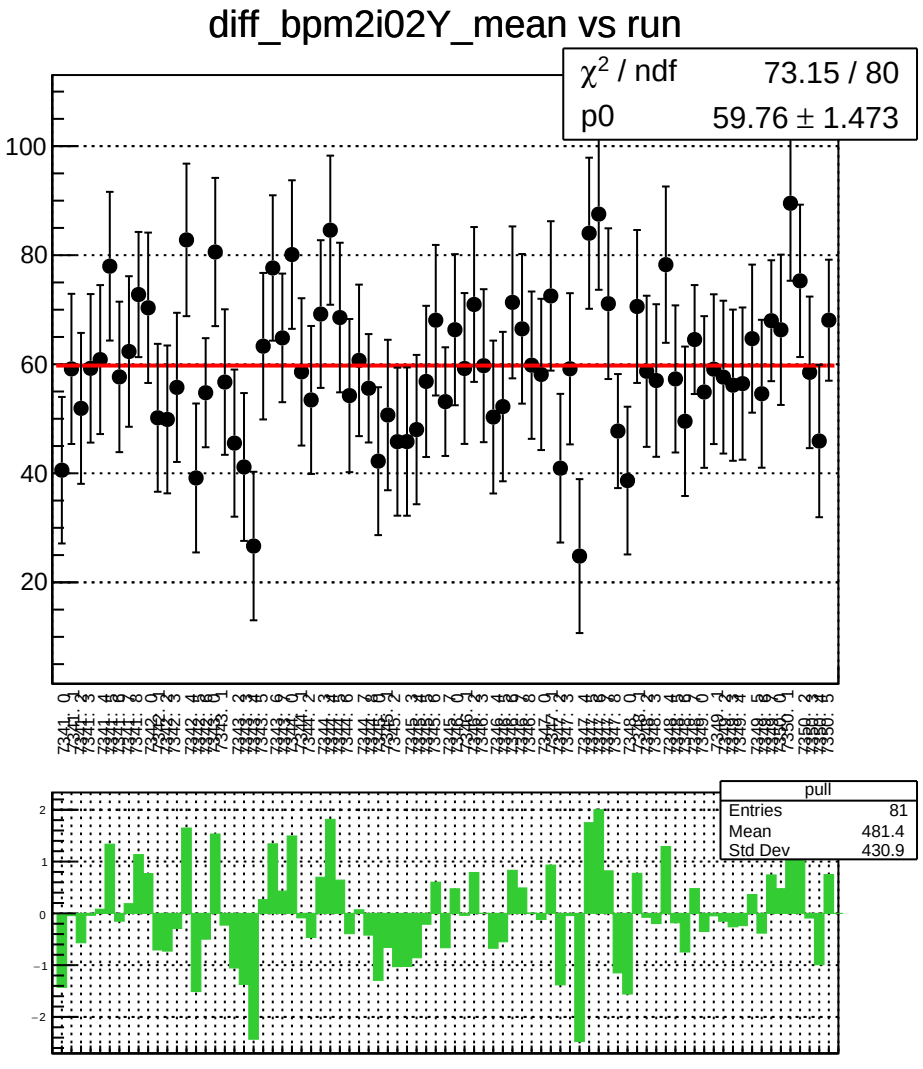

pull1D
Entries 81
Mean 0.008881
Std Dev 0.8683

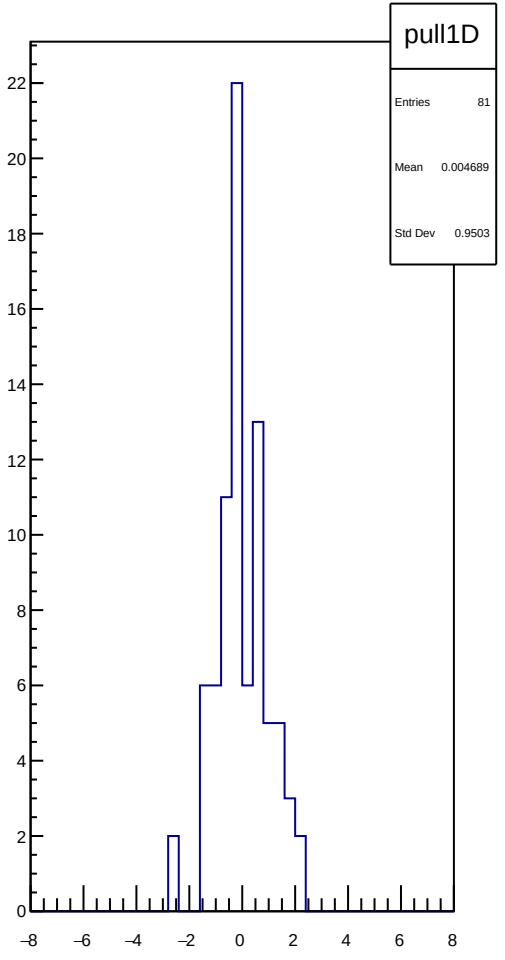

diff_bpm2i01Y_rms vs run
χ² / ndf 439.5 / 80
p0 1266 ± 1.01
1360
1340
1320
1300
1280
1260
1240
1220

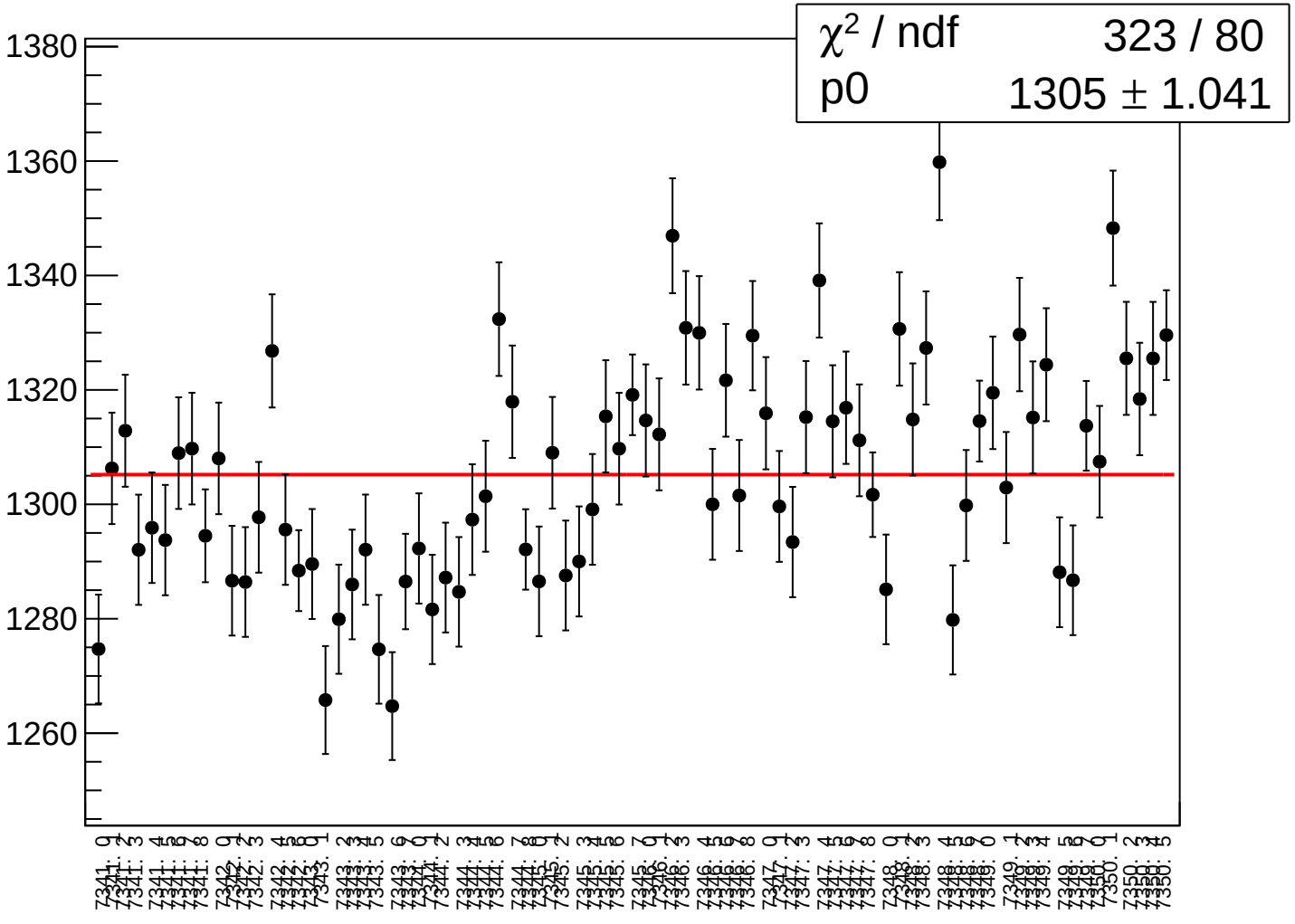

diff_bpm2i02X_mean vs run
χ² / ndf 79.14 / 80
p0 −23.42 ± 1.448
pull
Entries 81
Mean 337
Std Dev 290.5

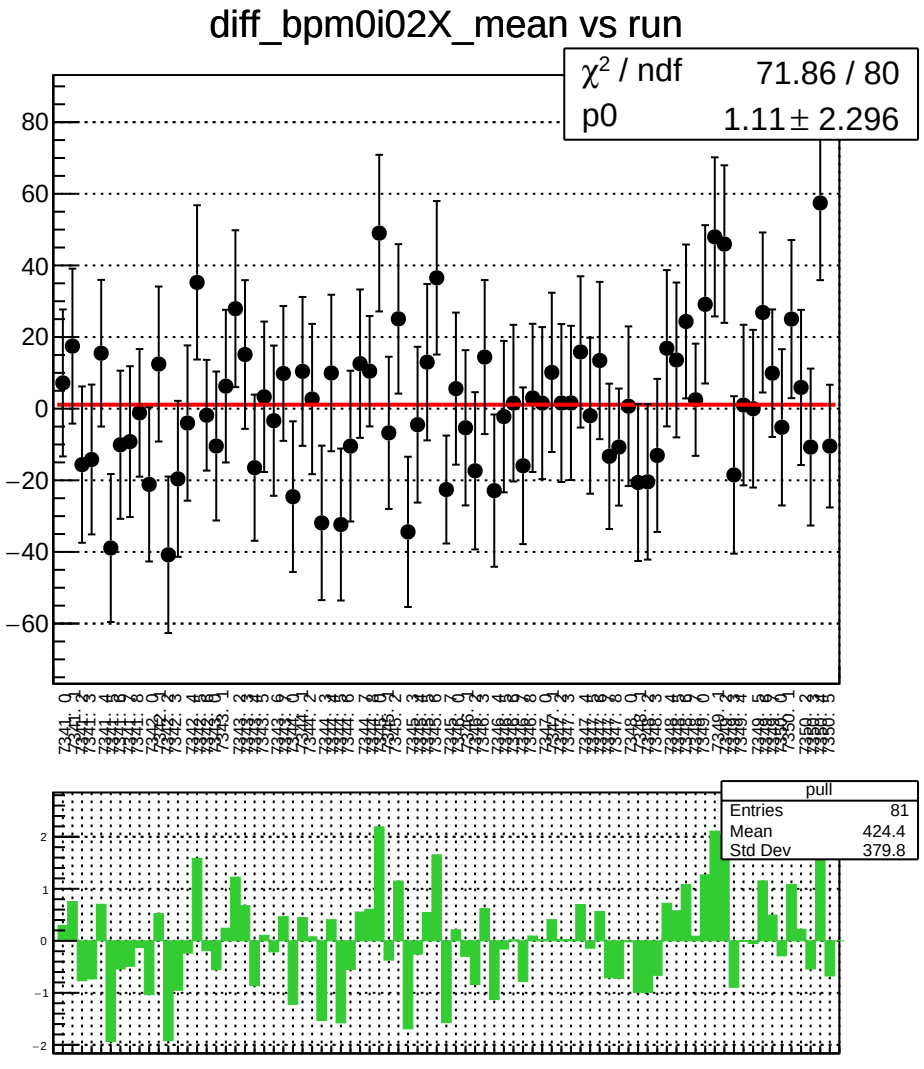

pull1D
Entries 81
Mean 0.004517
Std Dev 0.9884

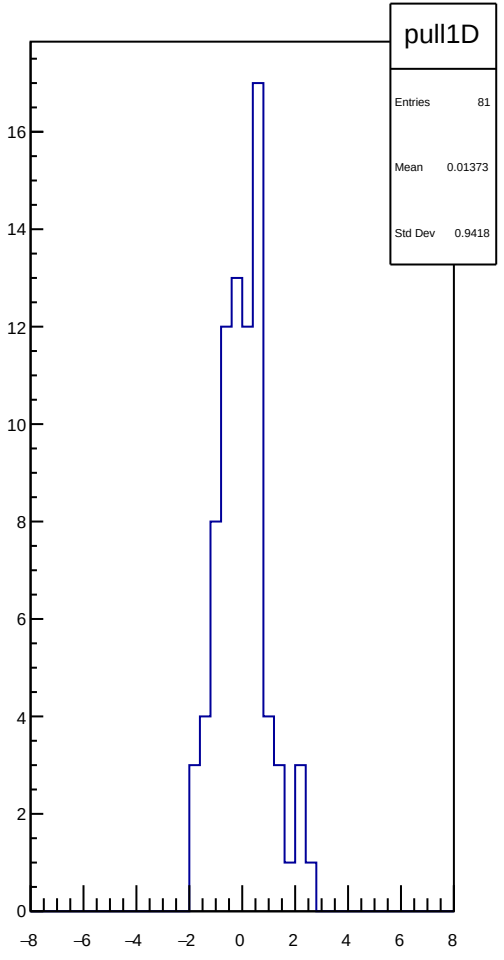

diff_bpm2i02X_rms vs run
χ² / ndf 333.5 / 80
p0 1283 ± 1.024
1340
1320
1300
1280
1260
1240
1220

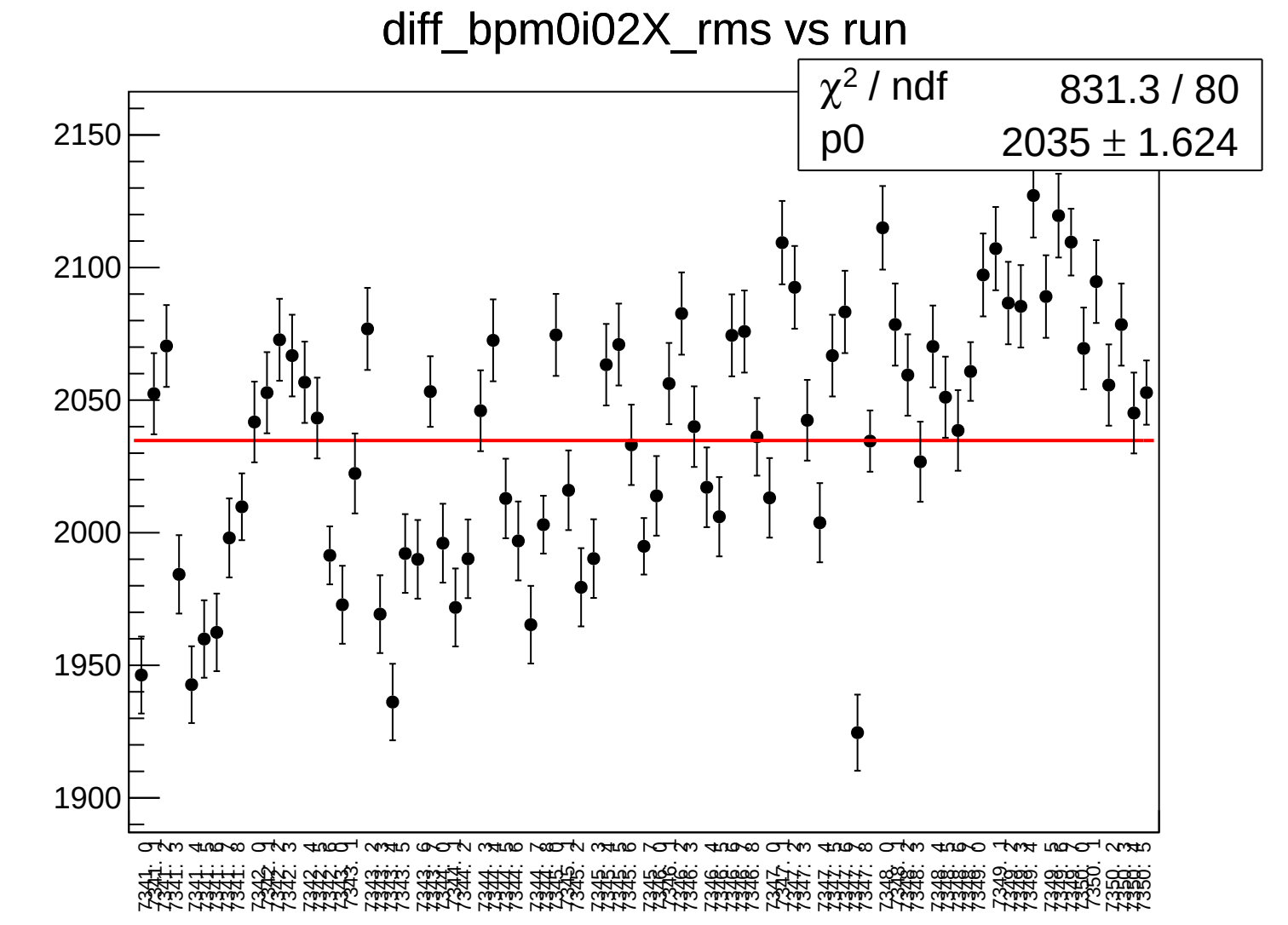

diff_bpm2i02Y_mean vs run
χ^2 / ndf 73.15 / 80
p0 59.76 ± 1.473
pull
Entries 81
Mean 481.4
Std Dev 430.9

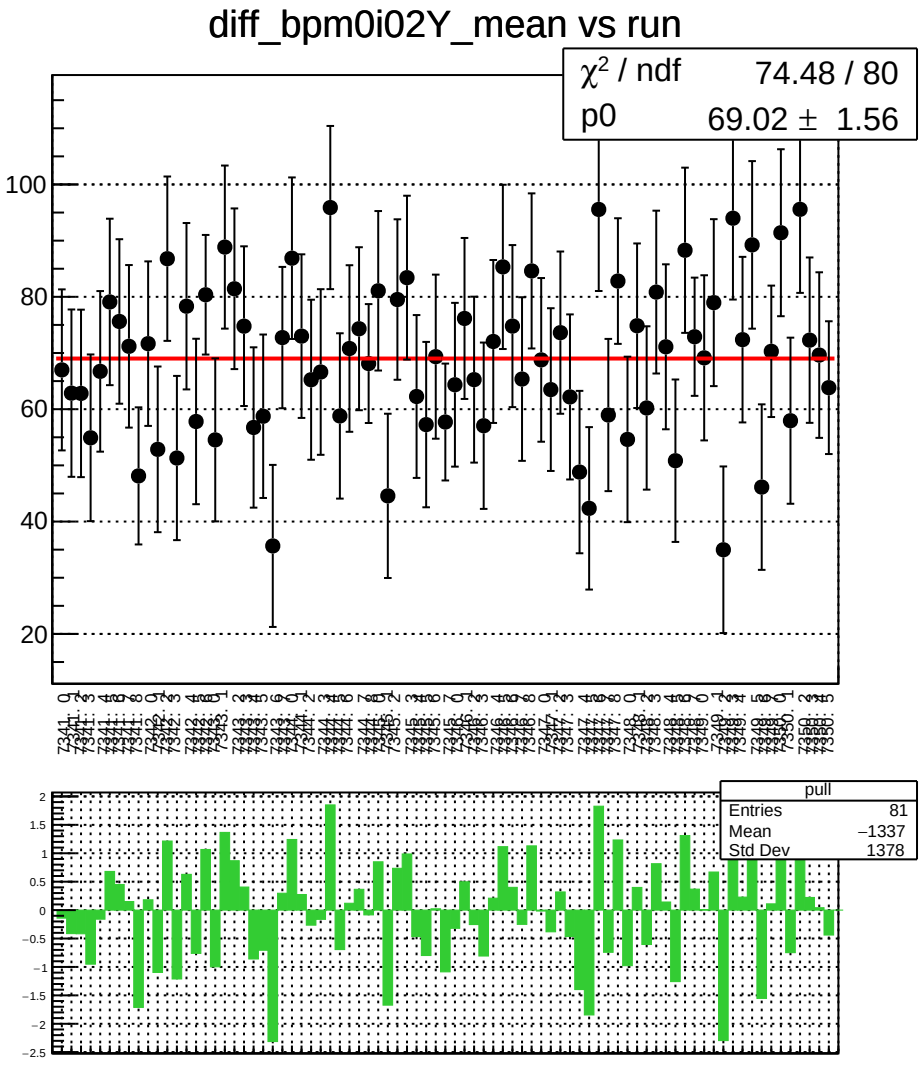

pull1D
Entries 81
Mean 0.004689
Std Dev 0.9503

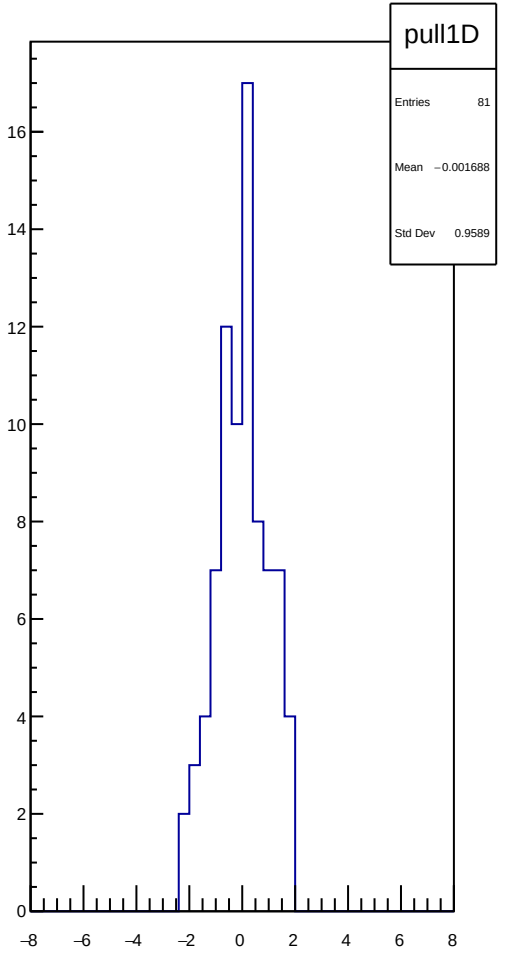

diff_bpm2i02Y_rms vs run
χ² / ndf 323 / 80
p0 1305 ± 1.041
1380
1360
1340
1320
1300
1280
1260

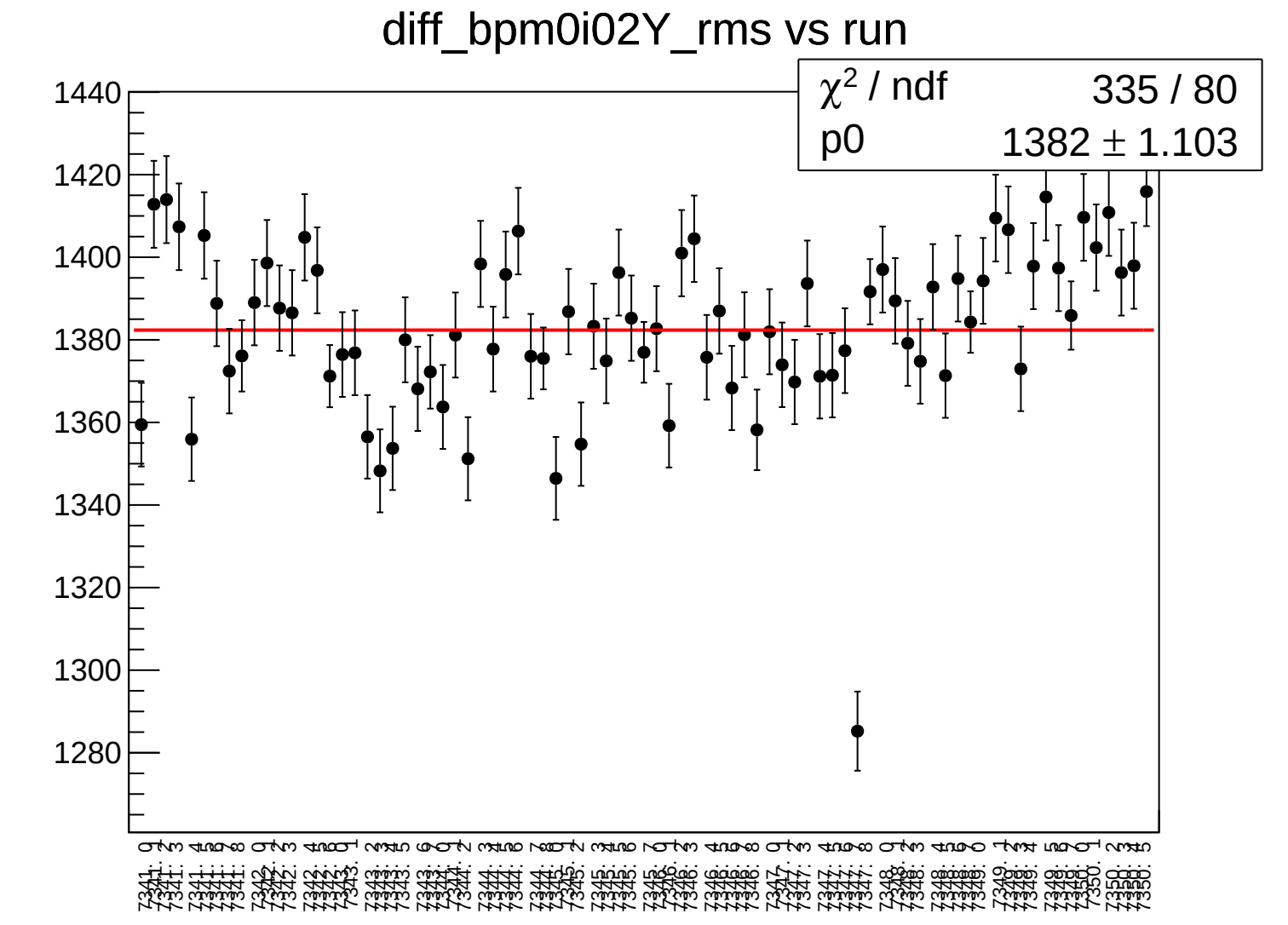

diff_bpm0i02X_mean vs run
χ² / ndf 71.86 / 80
p0 1.11 ± 2.296
pull
Entries 81
Mean 424.4
Std Dev 379.8

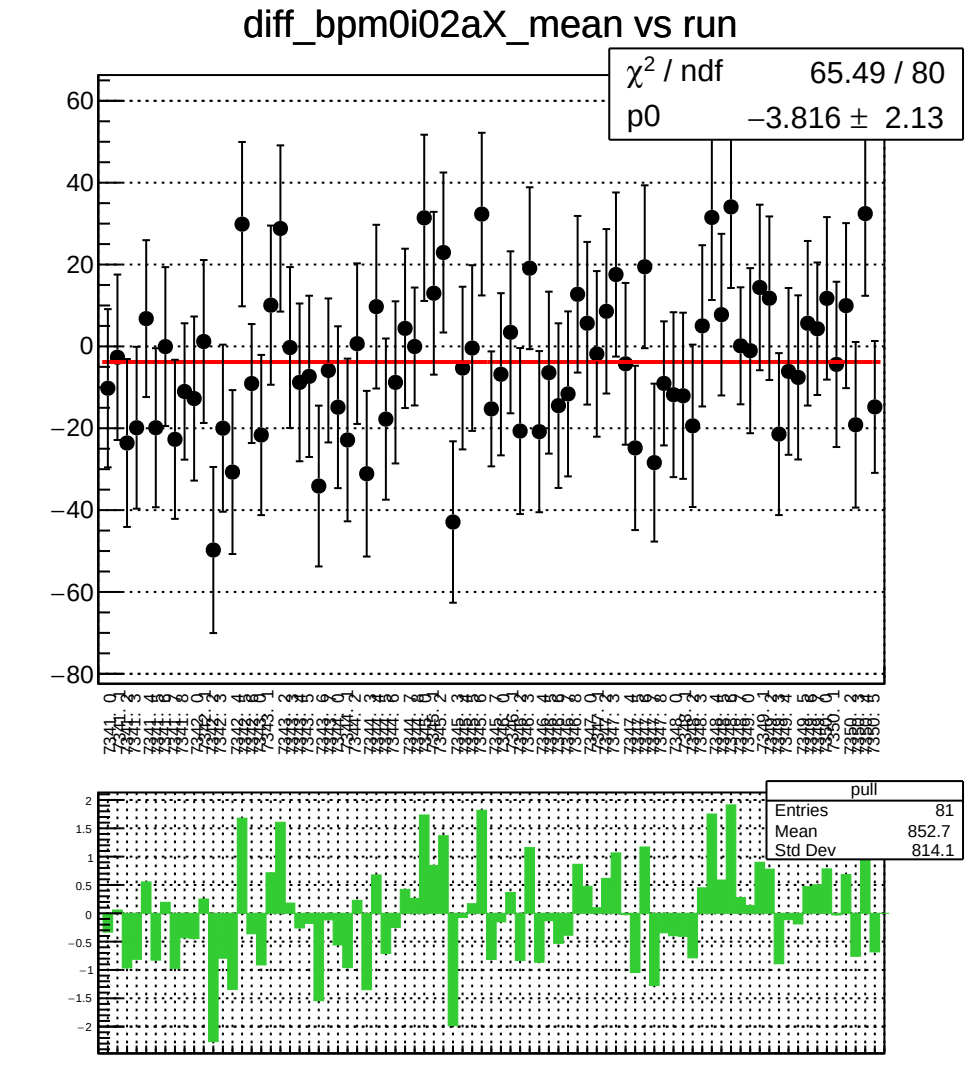

pull1D
Entries 81
Mean 0.01373
Std Dev 0.9418

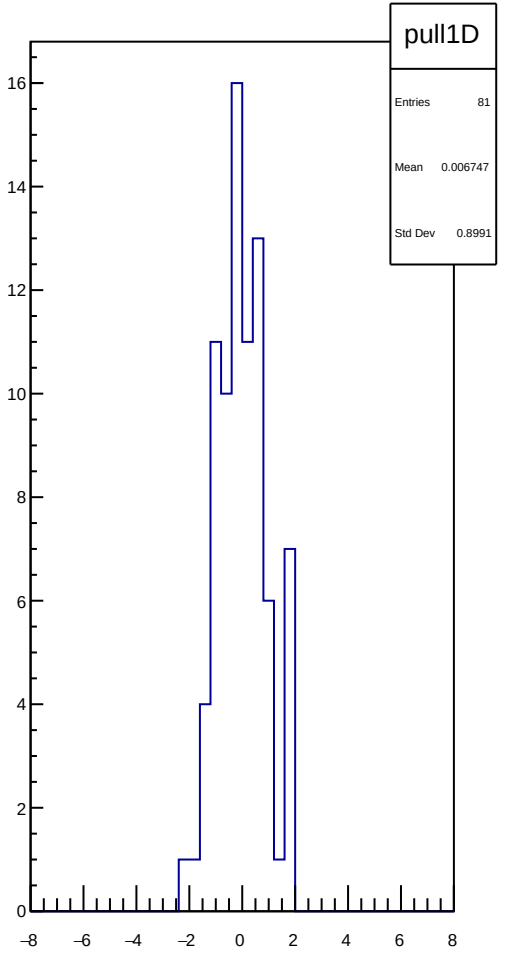

diff_bpm0i02X_rms vs run
χ^2 / ndf 831.3 / 80
p0 2035 ± 1.624
2150
2100
2050
2000
1950
1900

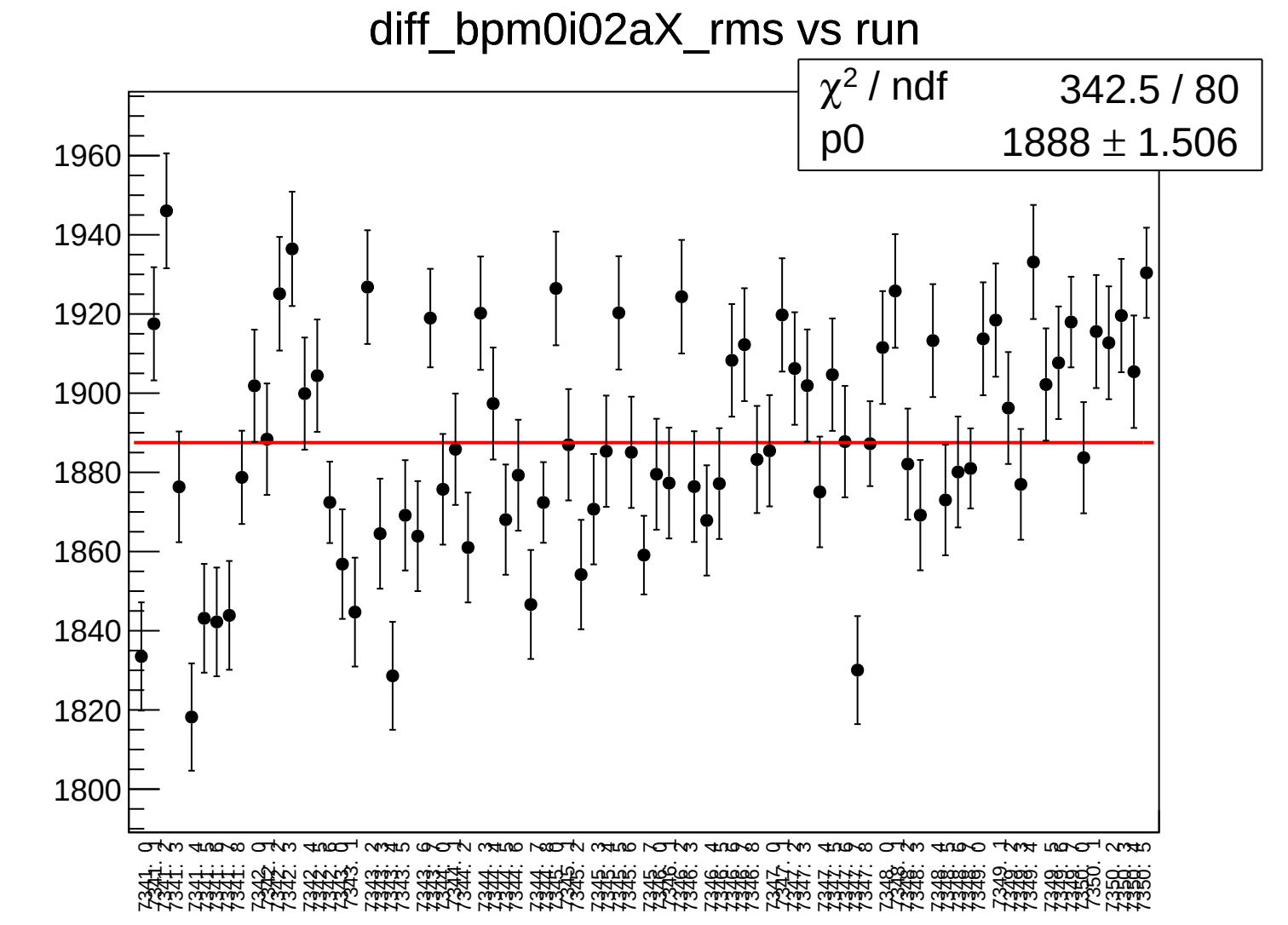

diff_bpm0i02Y_mean vs run
χ^2 / ndf 74.48 / 80
p0 69.02 ± 1.56
pull
Entries 81
Mean −1337
Std Dev 1378

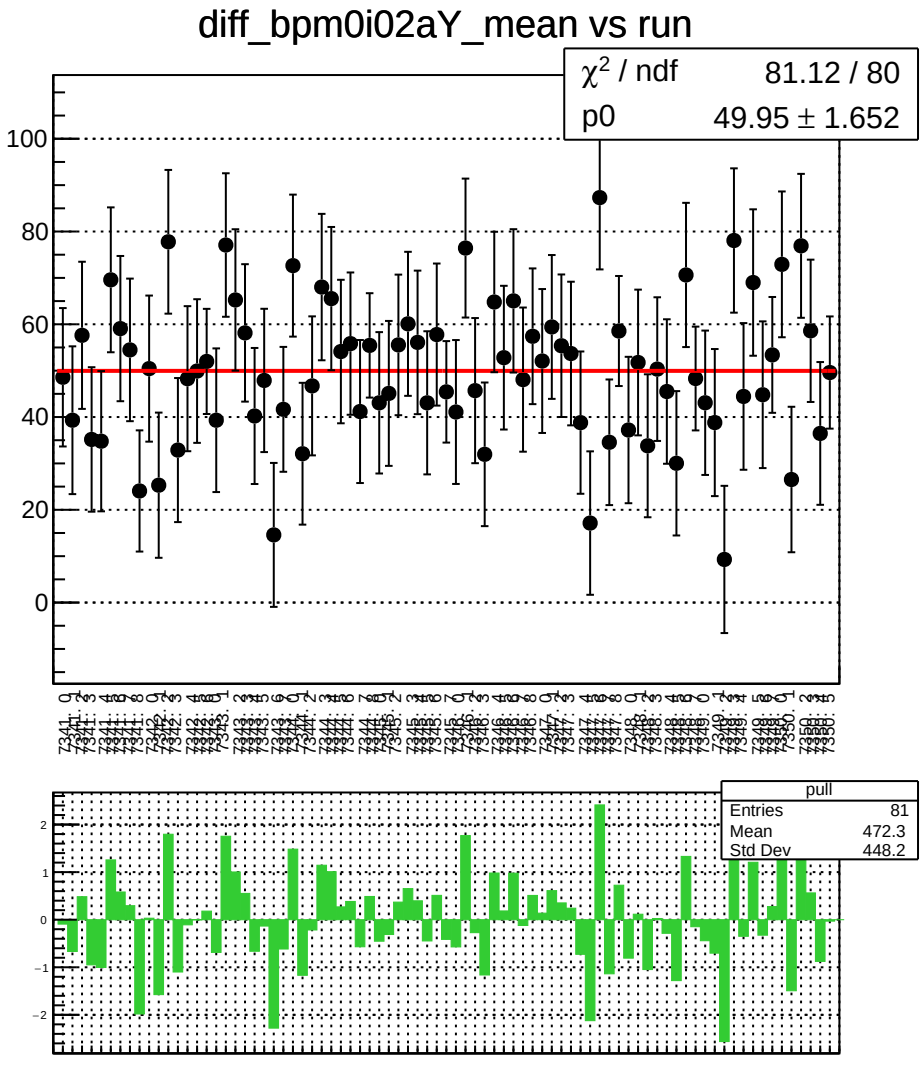

pull1D
Entries 81
Mean −0.001688
Std Dev 0.9589

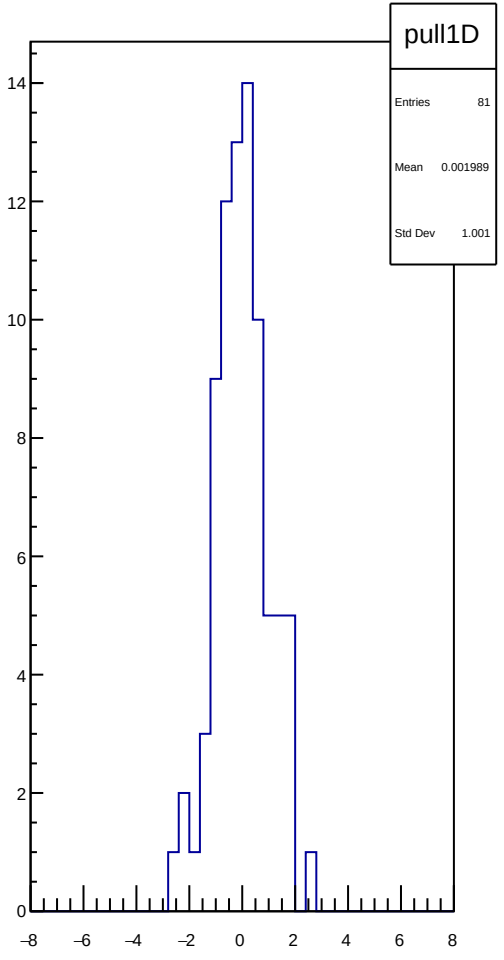

diff_bpm0i02Y_rms vs run
χ² / ndf 335 / 80
p0 1382 ± 1.103
1440
1420
1400
1380
1360
1340
1320
1300
1280

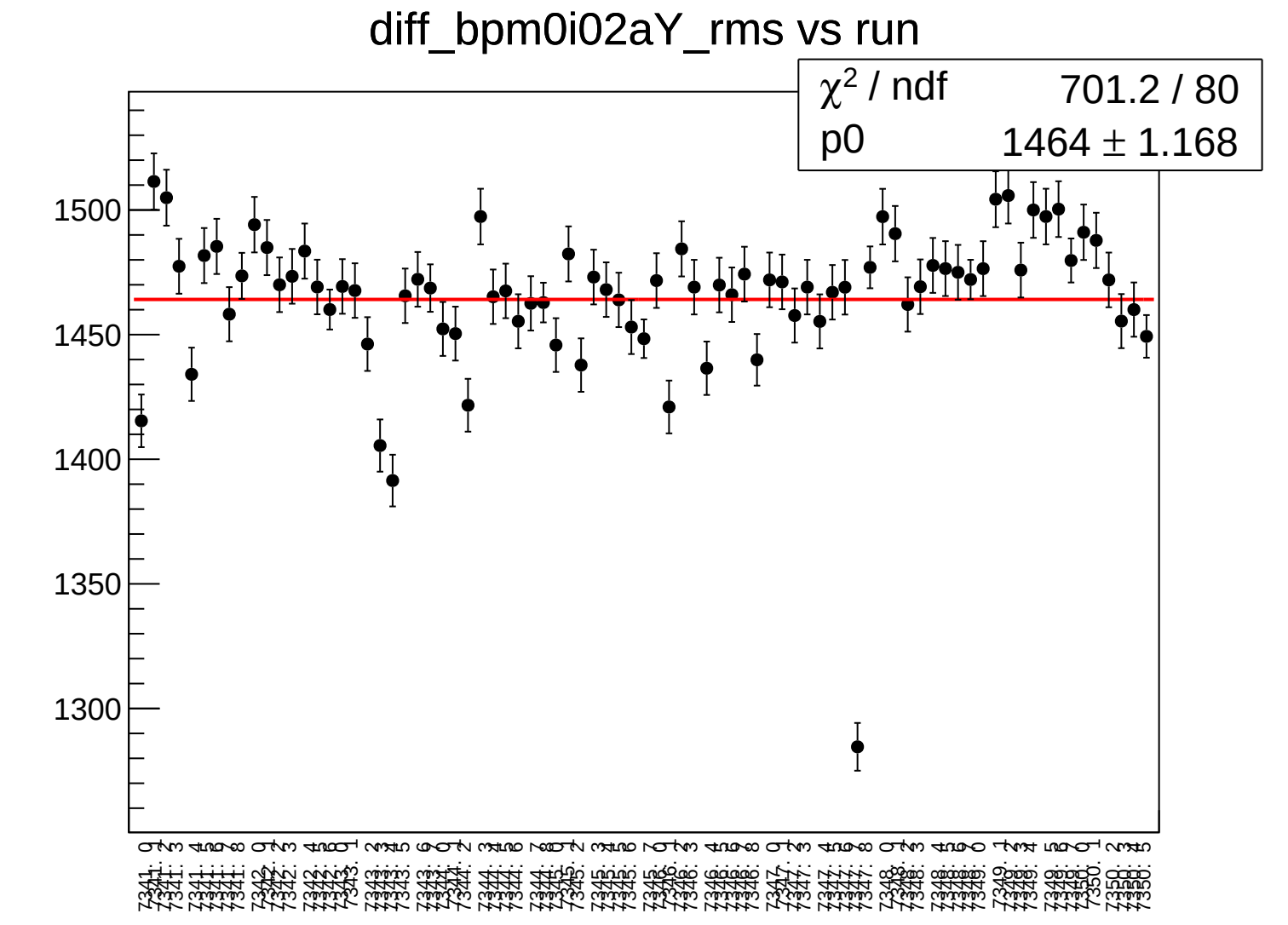

diff_bpm0i02aX_mean vs run
χ² / ndf 65.49 / 80
p0 −3.816 ± 2.13
pull
Entries 81
Mean 852.7
Std Dev 814.1

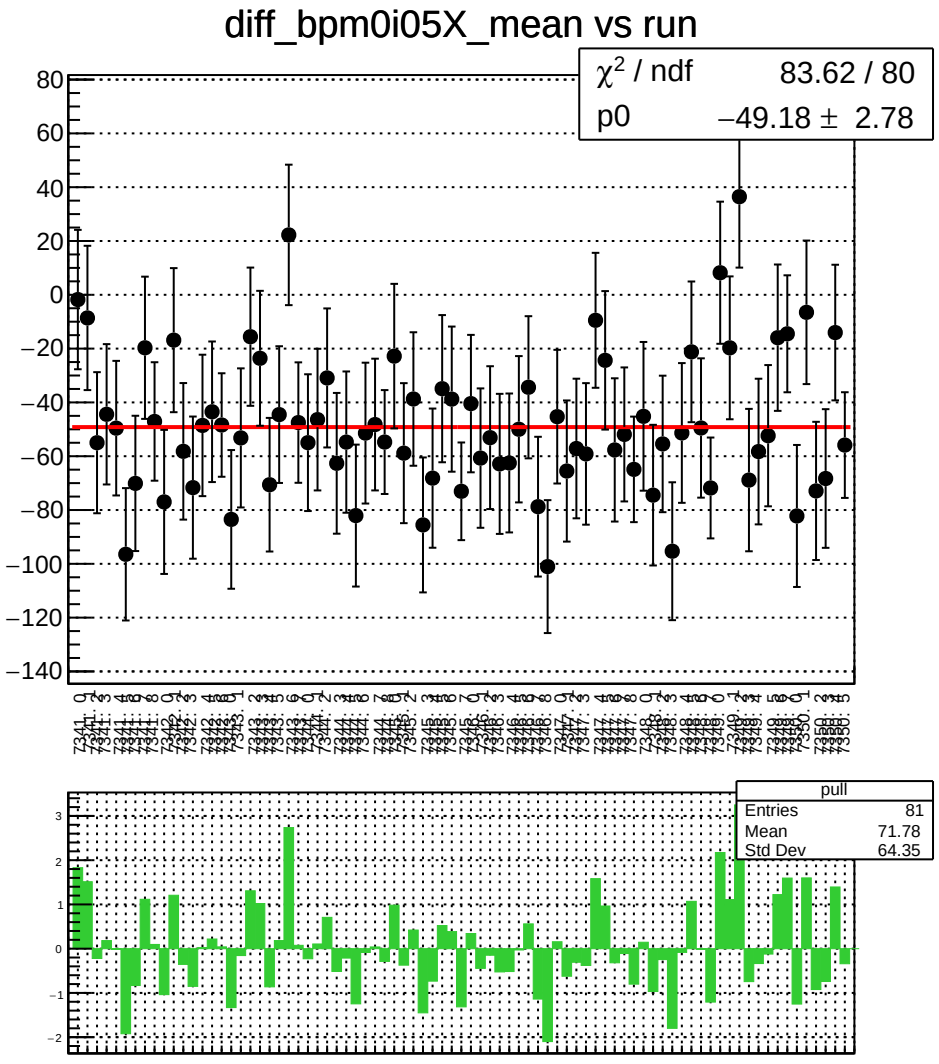

pull1D
Entries 81
Mean 0.006747
Std Dev 0.8991

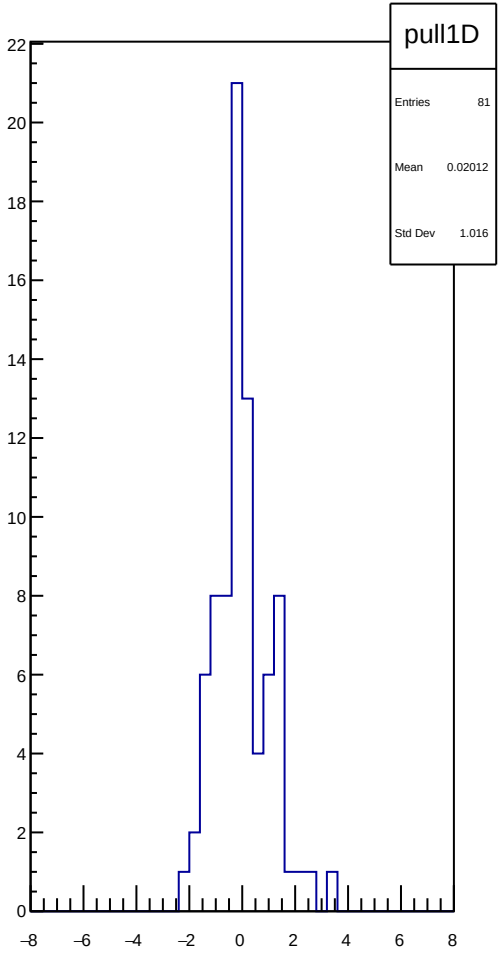

diff_bpm0i02aX_rms vs run
χ^2 / ndf 342.5 / 80
p0 1888 ± 1.506
1960
1940
1920
1900
1880
1860
1840
1820
1800

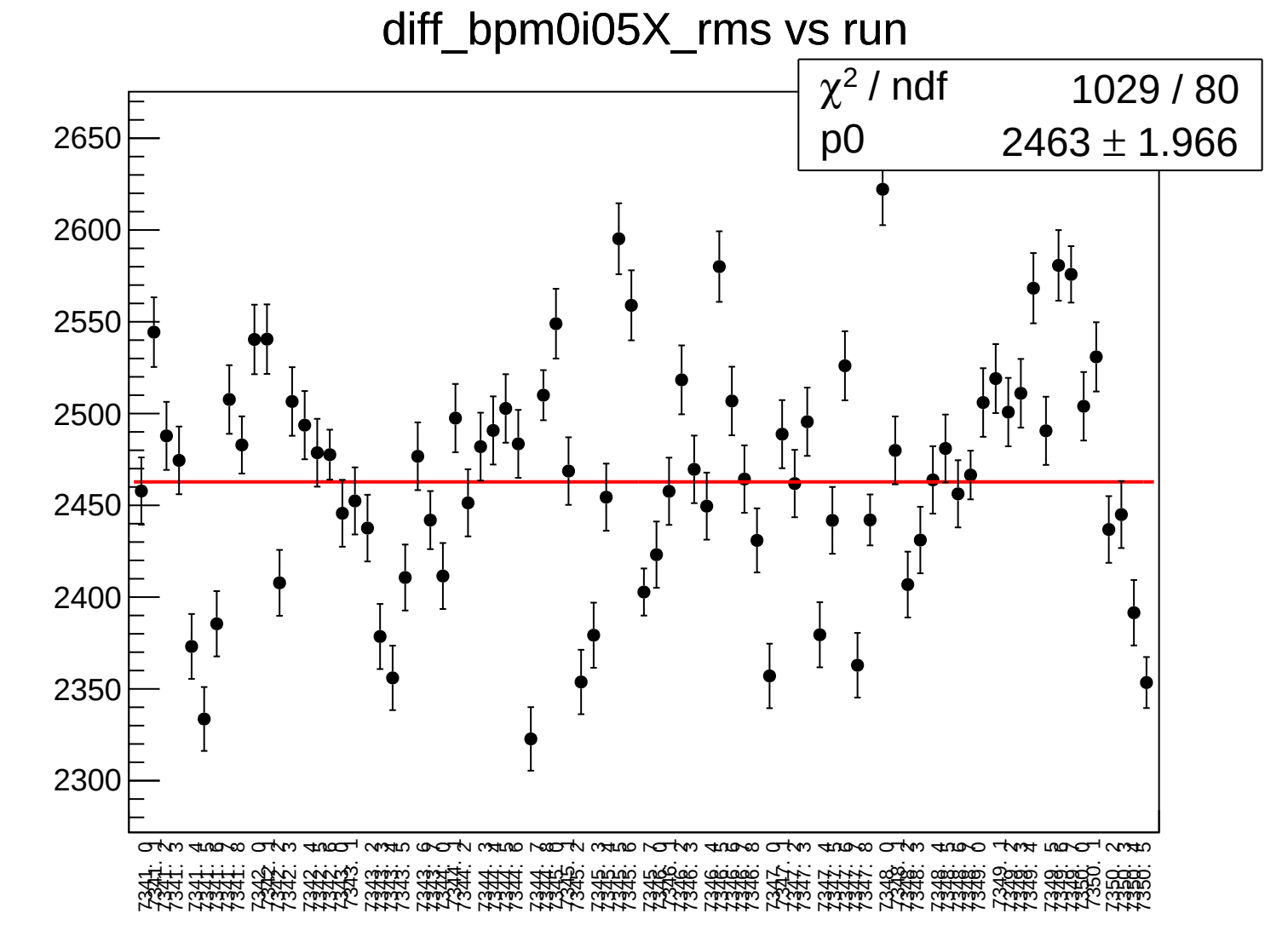

diff_bpm0i02aY_mean vs run
χ^2 / ndf 81.12 / 80
p0 49.95 ± 1.652
pull
Entries 81
Mean 472.3
Std Dev 448.2

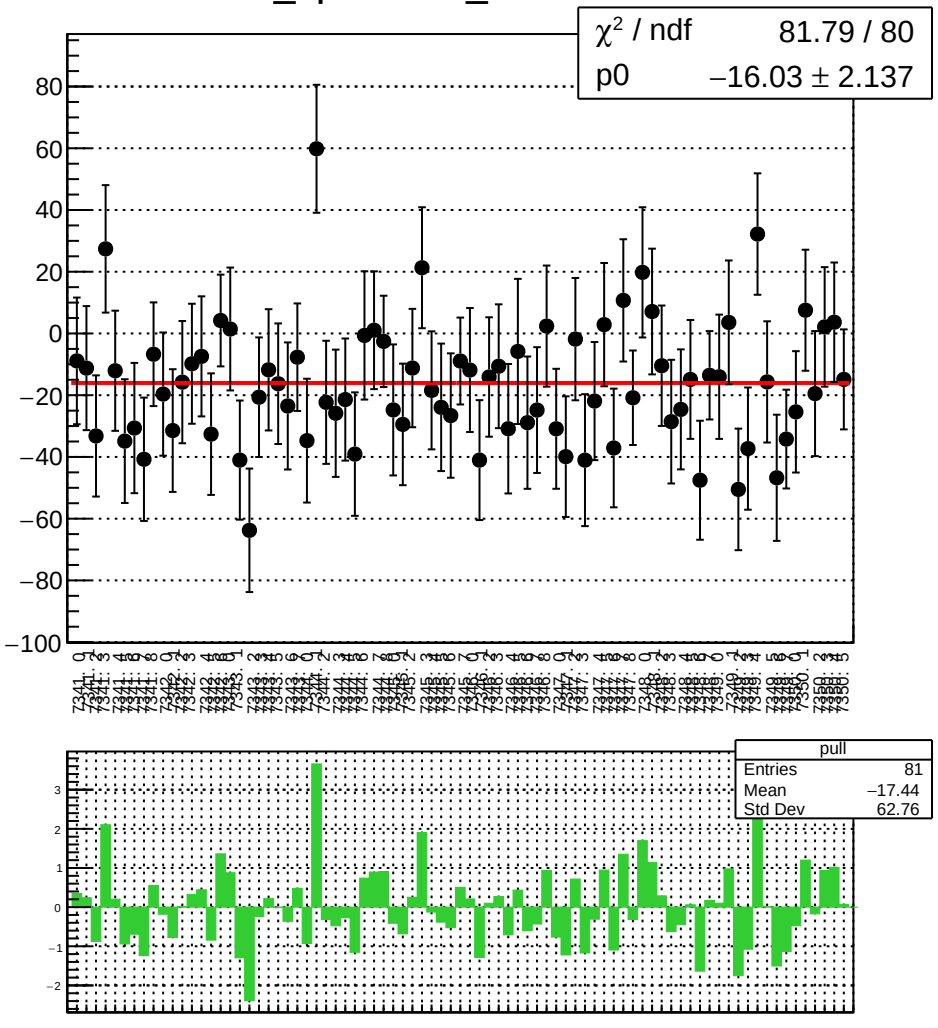

pull1D
Entries 81
Mean 0.001989
Std Dev 1.001

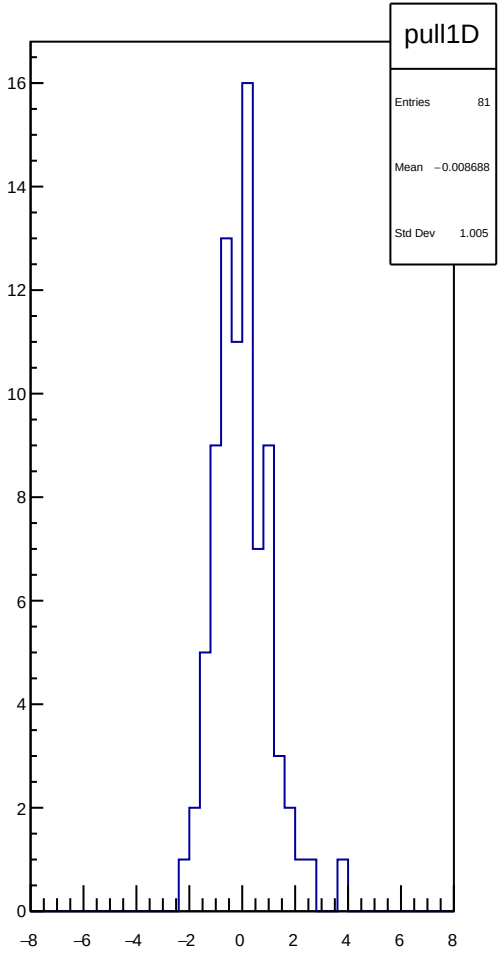

diff_bpm0i02aY_rms vs run
χ² / ndf 701.2 / 80
p0 1464 ± 1.168
1500
1450
1400
1350
1300

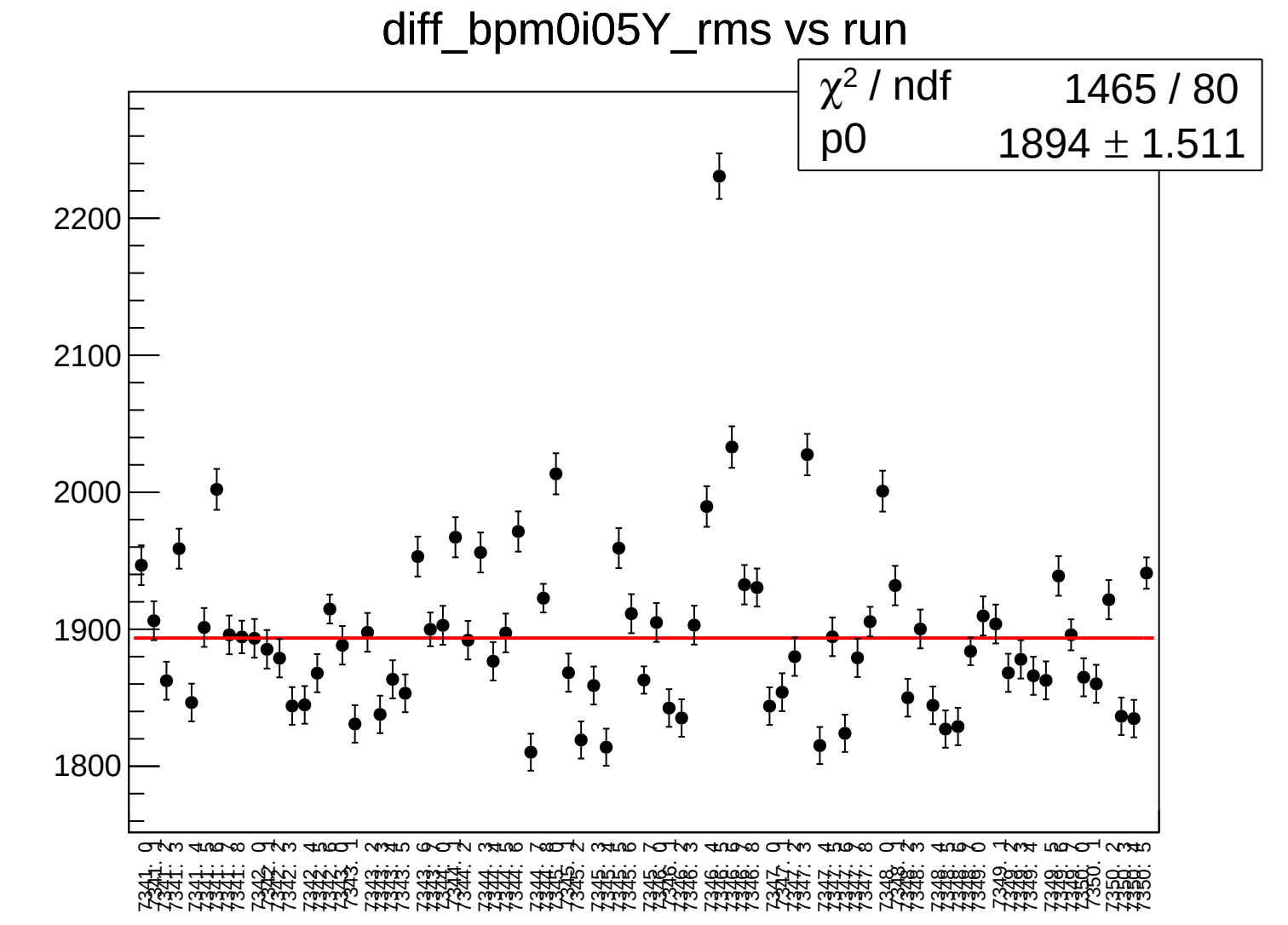

diff_bpm0i05X_mean vs run
χ² / ndf 83.62 / 80
p0 −49.18 ± 2.78
pull
Entries 81
Mean 71.78
Std Dev 64.35

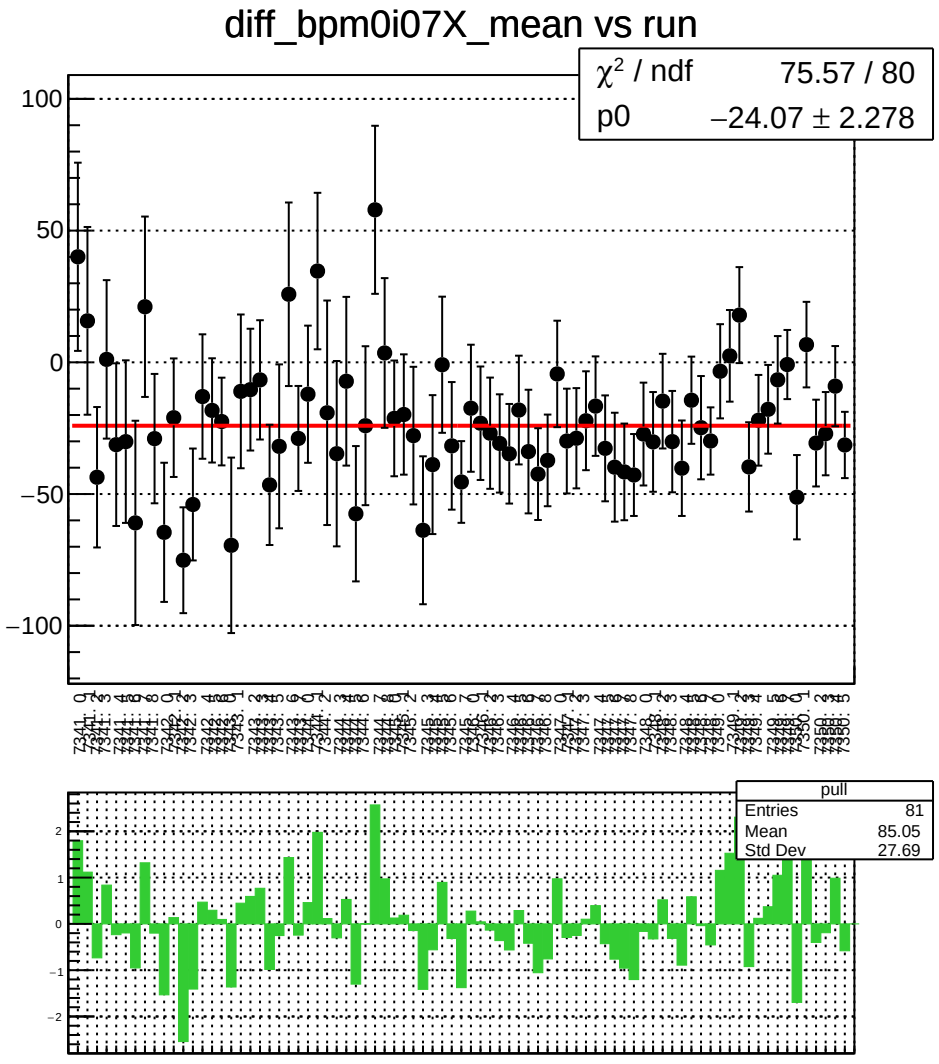

pull1D
Entries 81
Mean 0.02012
Std Dev 1.016

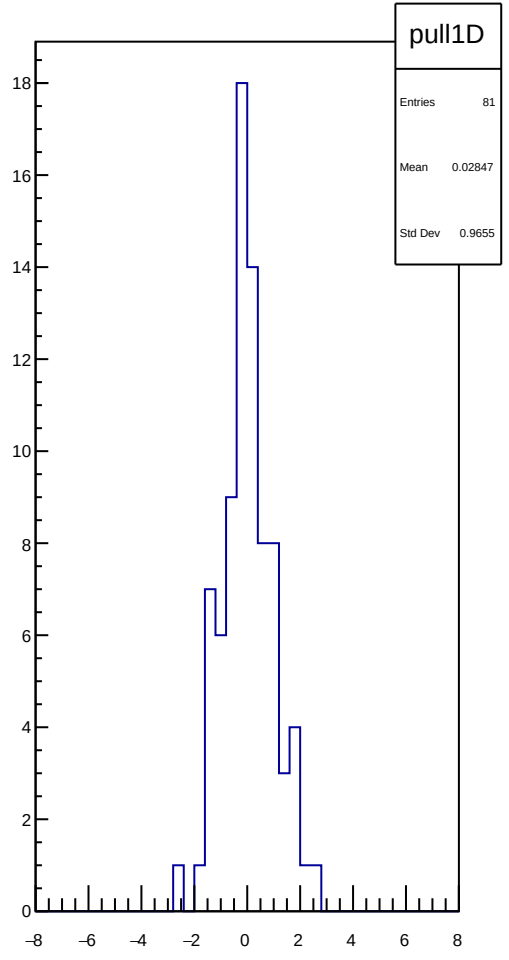

diff_bpm0i05X_rms vs run
χ² / ndf 1029 / 80
p0 2463 ± 1.966
2650
2600
2550
2500
2450
2400
2350
2300

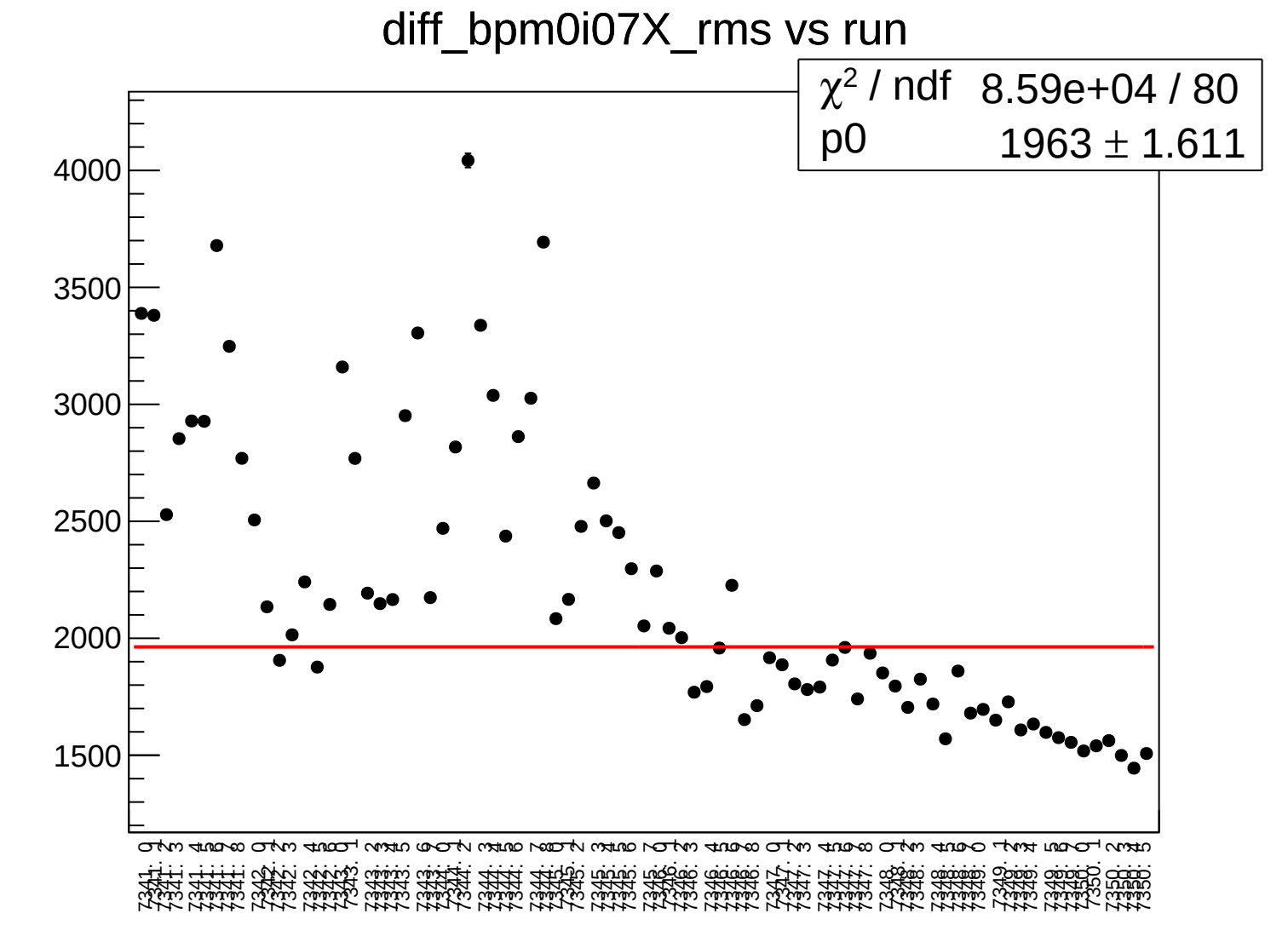

diff_bpm0i05Y_mean vs run
χ² / ndf 81.79 / 80
p0 −16.03 ± 2.137
pull
Entries 81
Mean −17.44
Std Dev 62.76

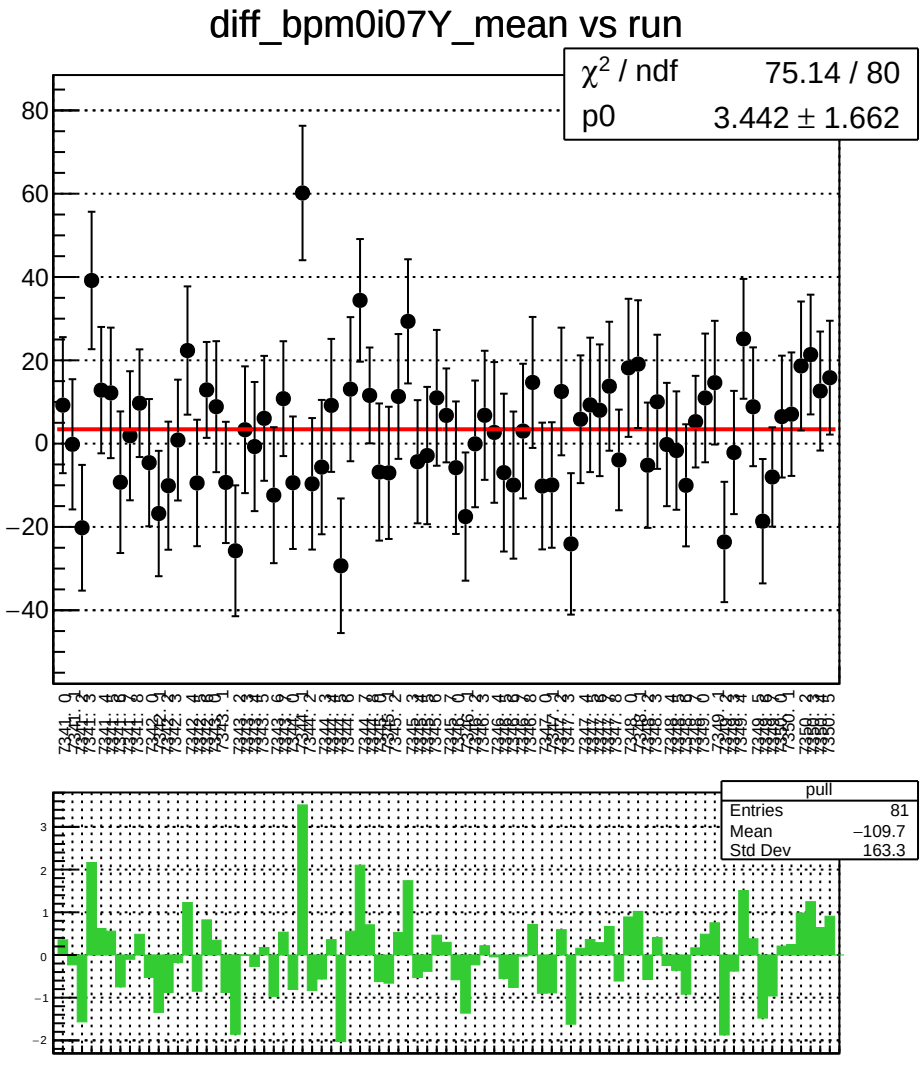

pull1D
Entries 81
Mean −0.008688
Std Dev 1.005

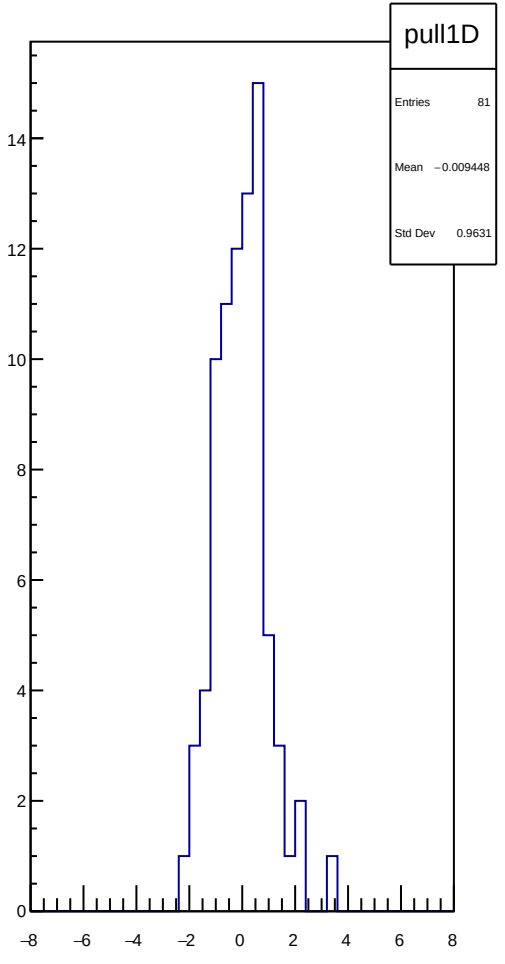

diff_bpm0i05Y_rms vs run
χ² / ndf 1465 / 80
p0 1894 ± 1.511
2200
2100
2000
1900
1800

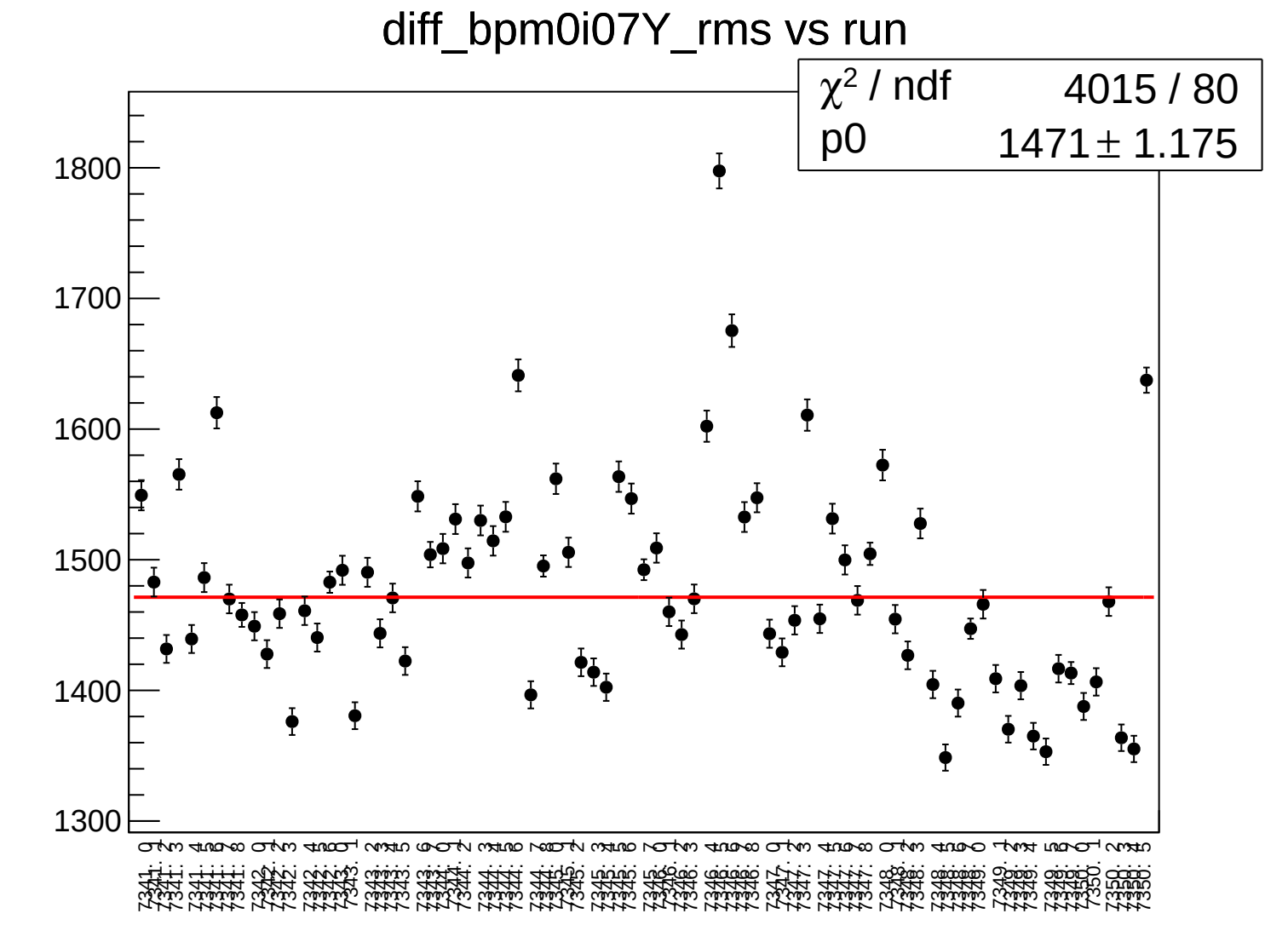

diff_bpm0i07X_mean vs run
χ² / ndf 75.57 / 80
p0 −24.07 ± 2.278
100
50
0
−50
−100
pull
Entries 81
Mean 85.05
Std Dev 27.69
2
1
0
−1
−2

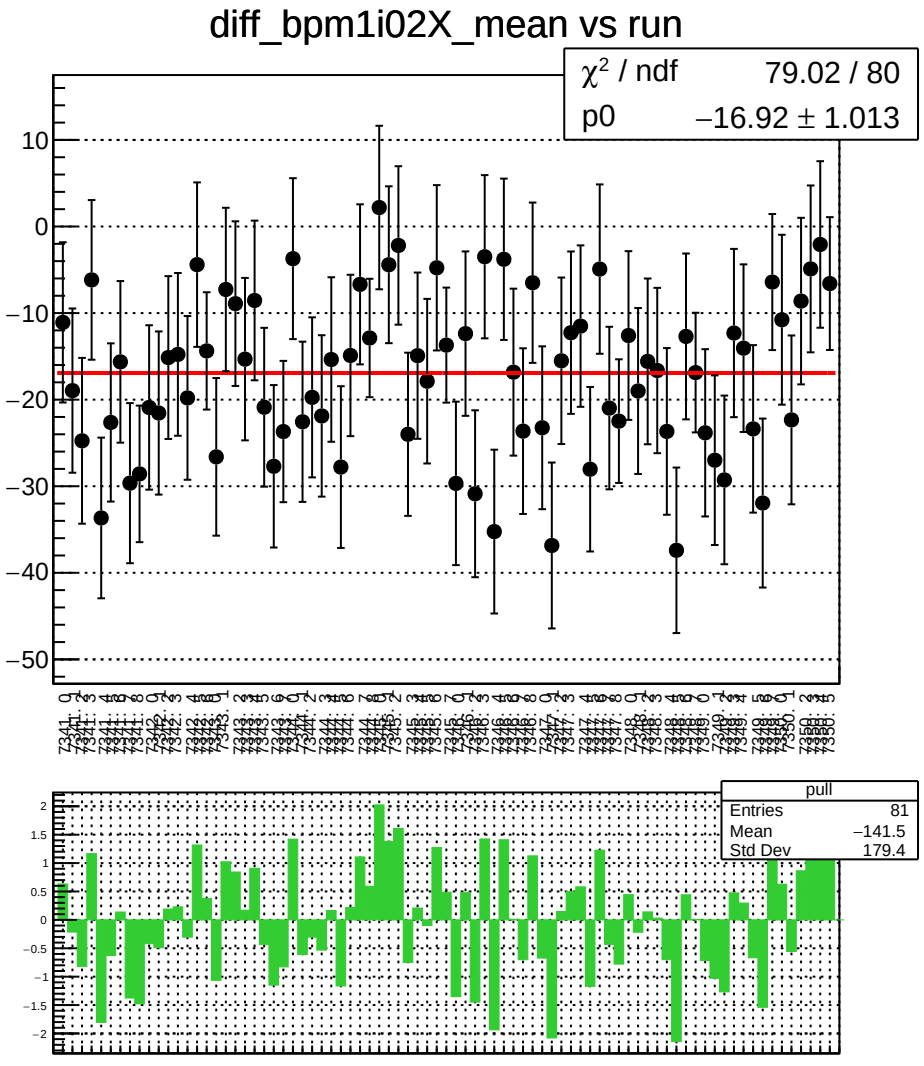

pull1D
Entries 81
Mean 0.02847
Std Dev 0.9655
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

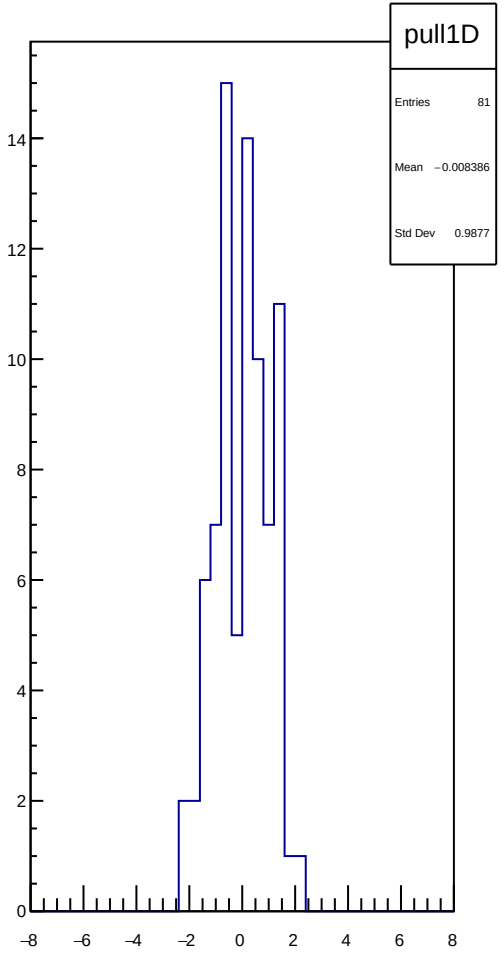

diff_bpm0i07X_rms vs run
χ² / ndf 8.59e+04 / 80
p0 1963 ± 1.611
4000
3500
3000
2500
2000
1500

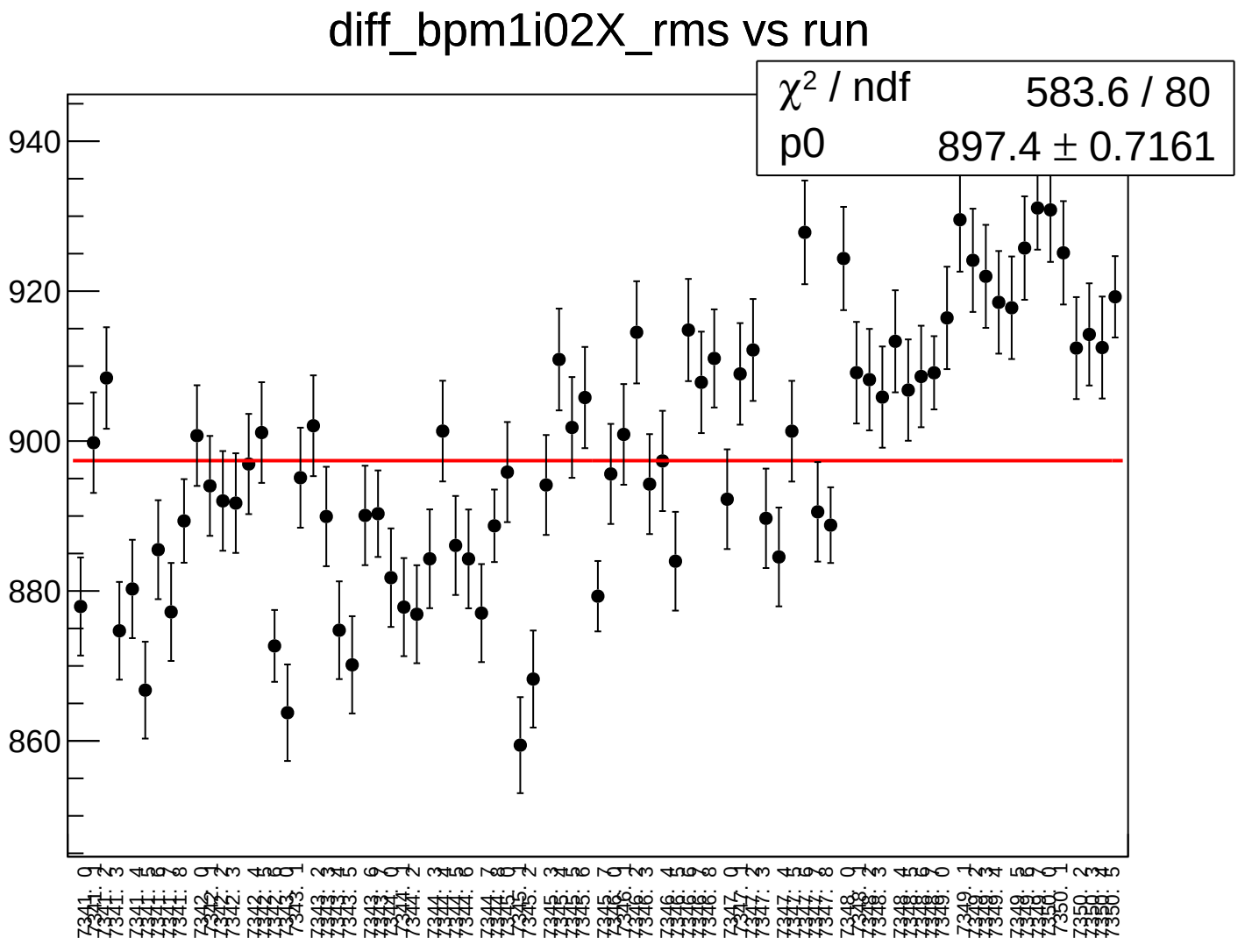

diff_bpm0i07Y_mean vs run
χ^2 / ndf 75.14 / 80
p0 3.442 ± 1.662
pull
Entries 81
Mean −109.7
Std Dev 163.3

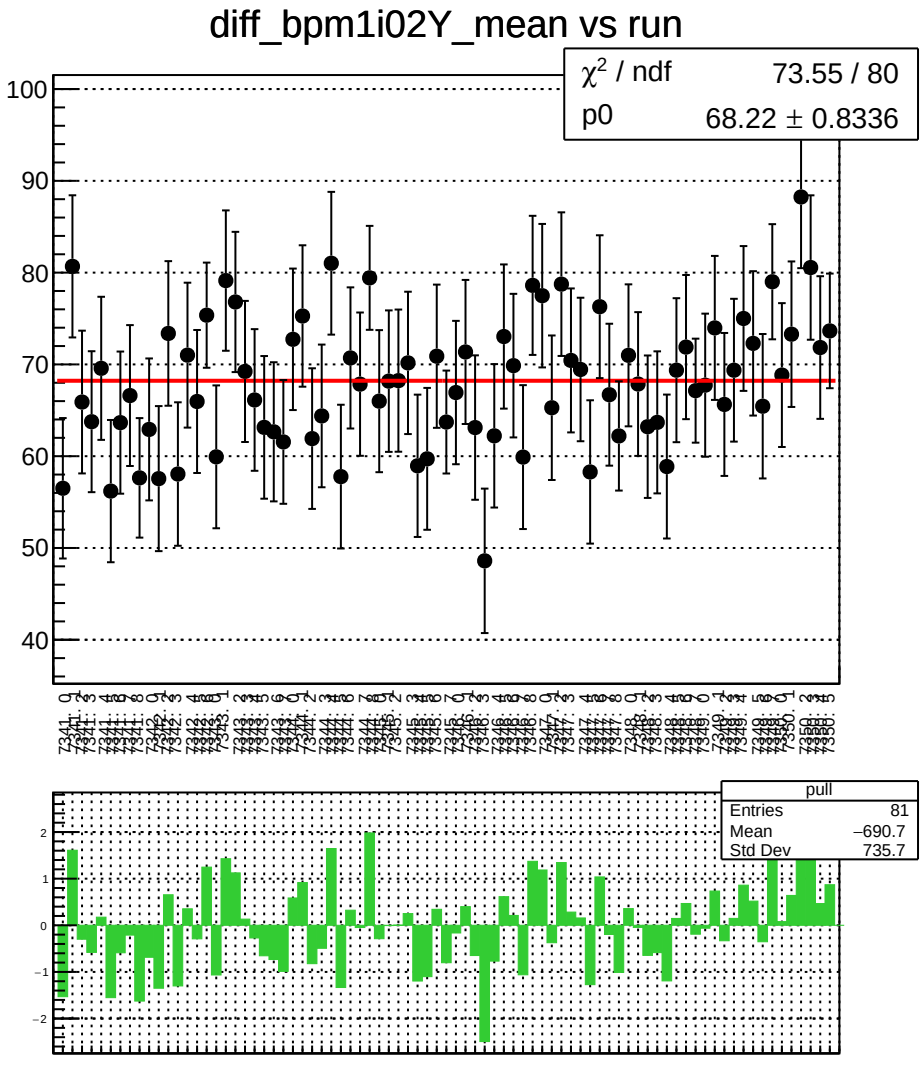

pull1D
Entries 81
Mean −0.009448
Std Dev 0.9631

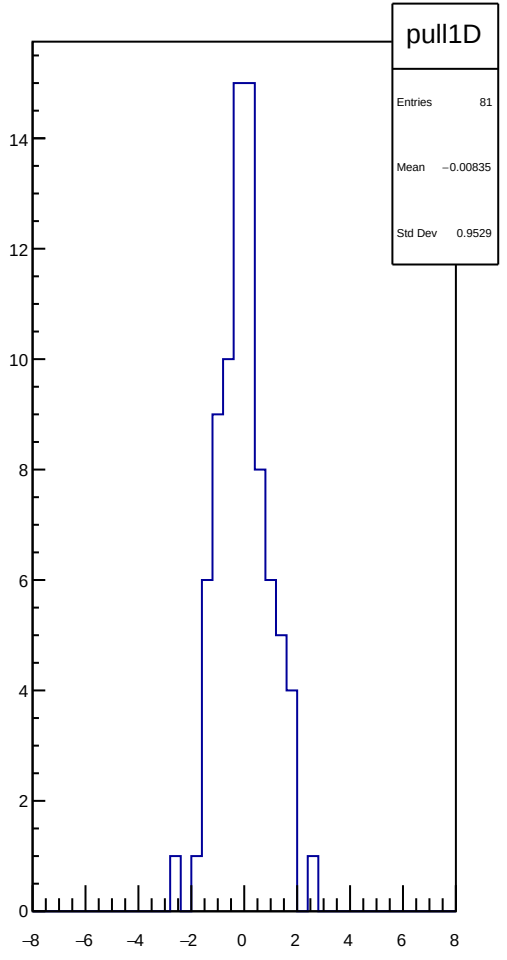

diff_bpm0i07Y_rms vs run
χ² / ndf 4015 / 80
p0 1471 ± 1.175
1800
1700
1600
1500
1400
1300

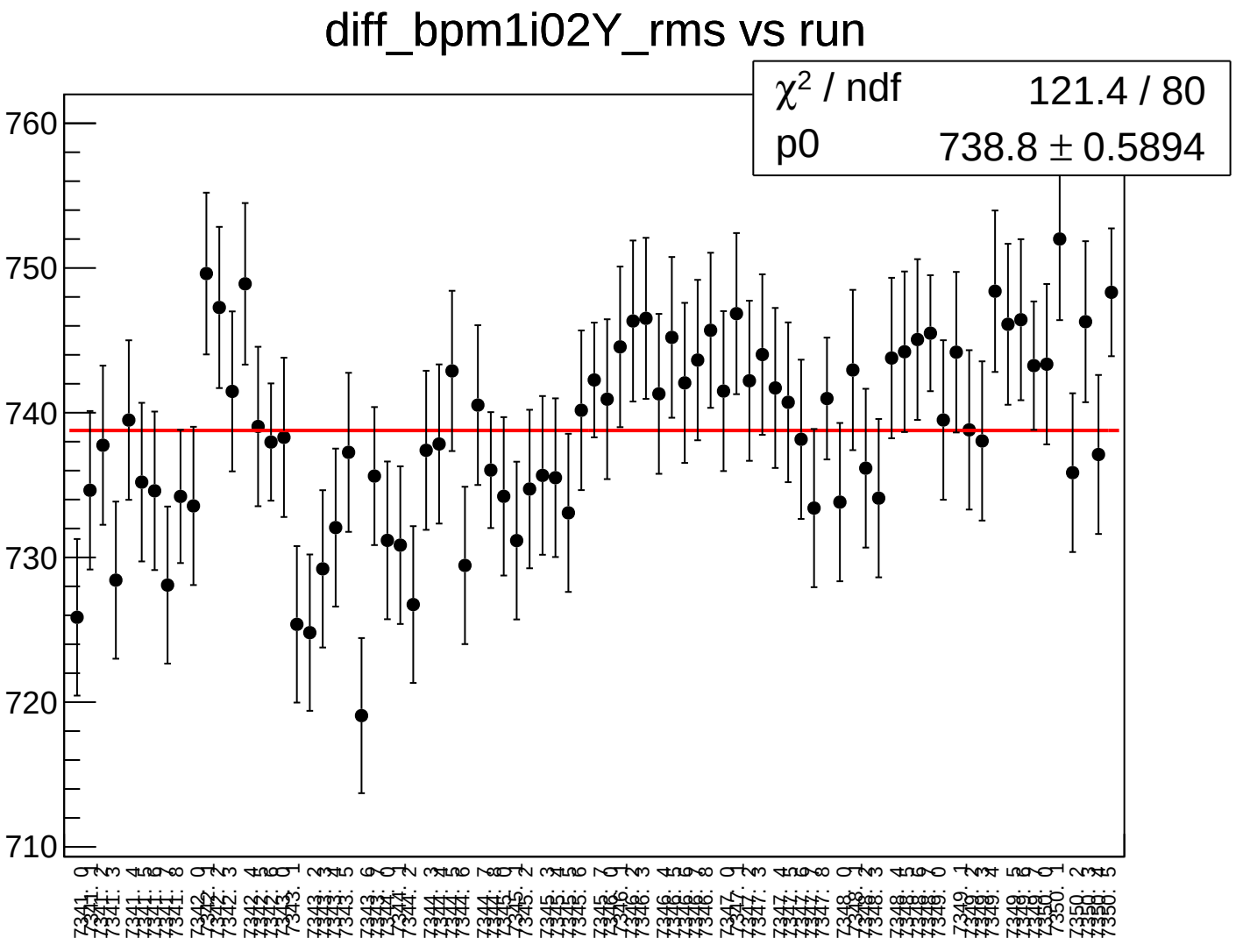

diff_bpm1i02X_mean vs run
χ^2 / ndf 79.02 / 80
p0 −16.92 ± 1.013
pull
Entries 81
Mean −141.5
Std Dev 179.4

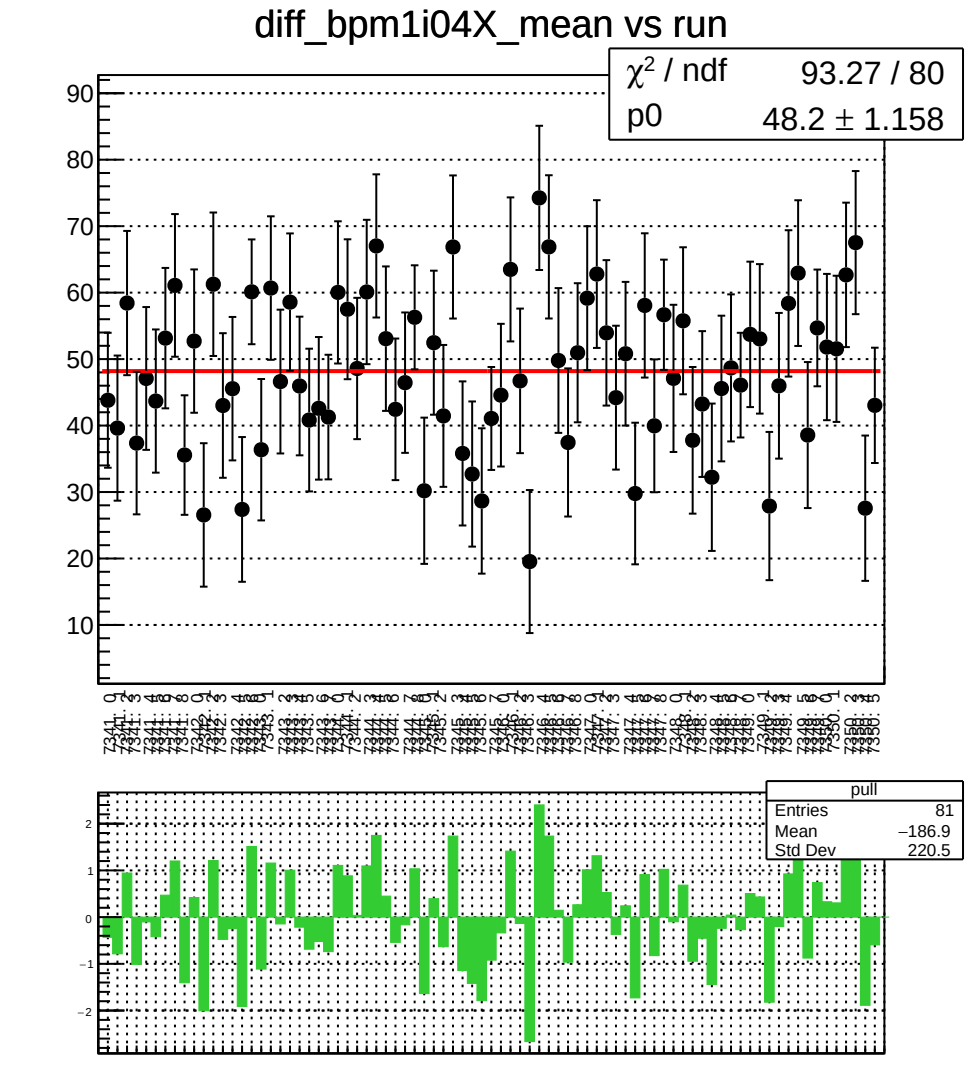

pull1D
Entries 81
Mean −0.008386
Std Dev 0.9877

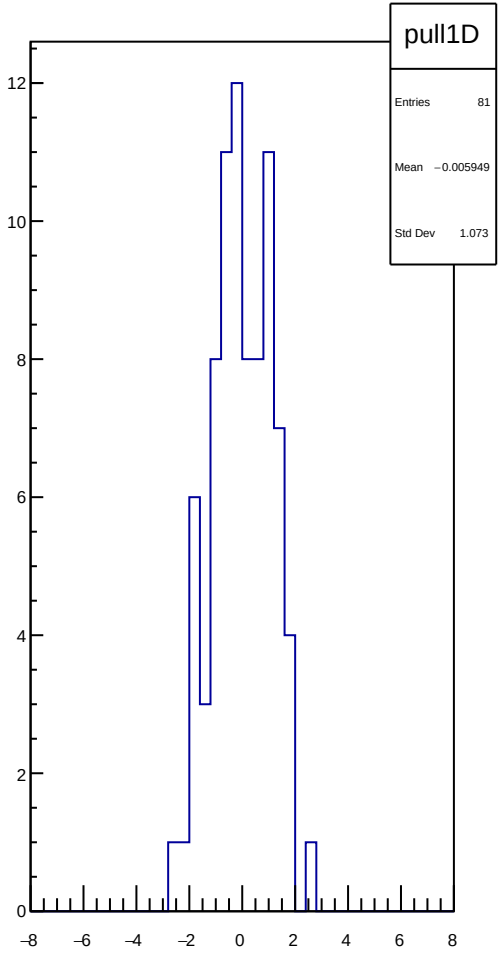

diff_bpm1i02X_rms vs run
χ² / ndf 583.6 / 80
p0 897.4 ± 0.7161
940
920
900
880
860

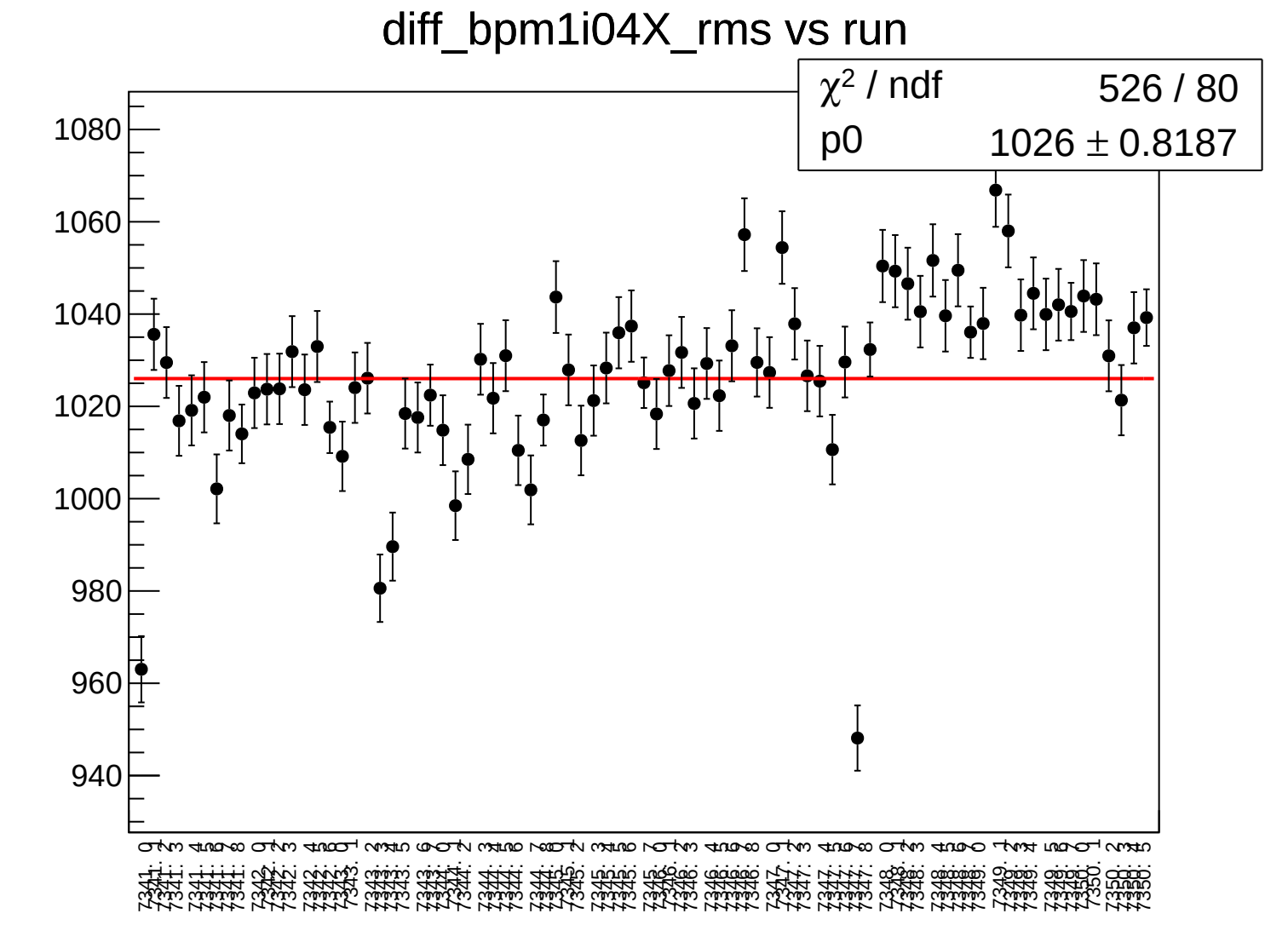

diff_bpm1i02Y_mean vs run
χ² / ndf 73.55 / 80
p0 68.22 ± 0.8336
pull
Entries 81
Mean −690.7
Std Dev 735.7

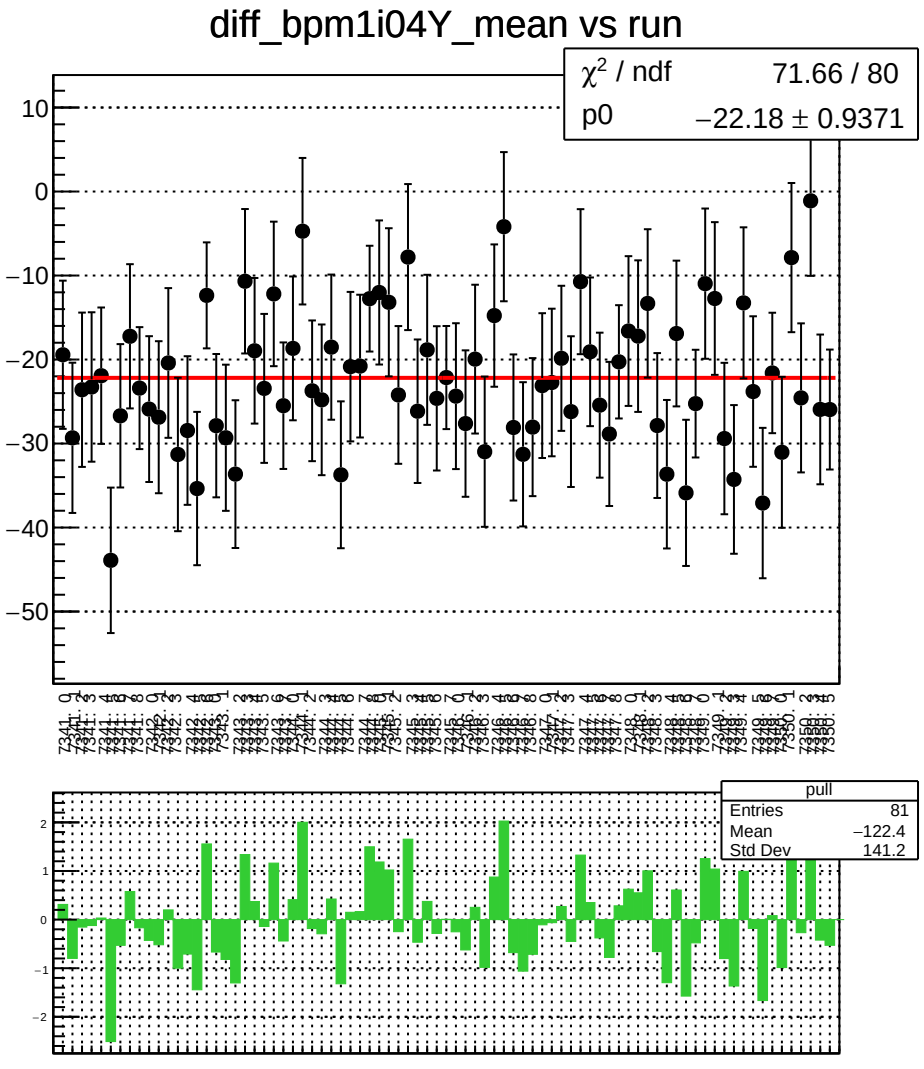

pull1D
Entries 81
Mean −0.00835
Std Dev 0.9529

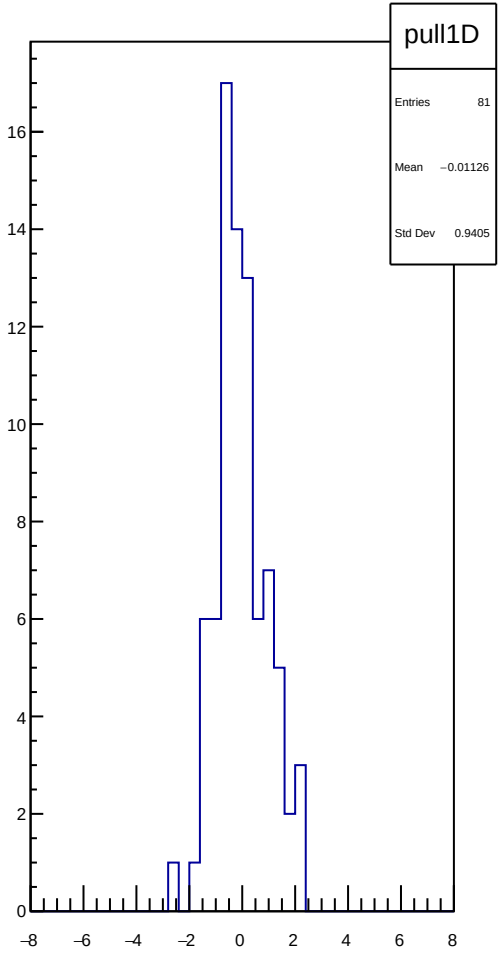

diff_bpm1i02Y_rms vs run
χ² / ndf 121.4 / 80
p0 738.8 ± 0.5894
760
750
740
730
720
710

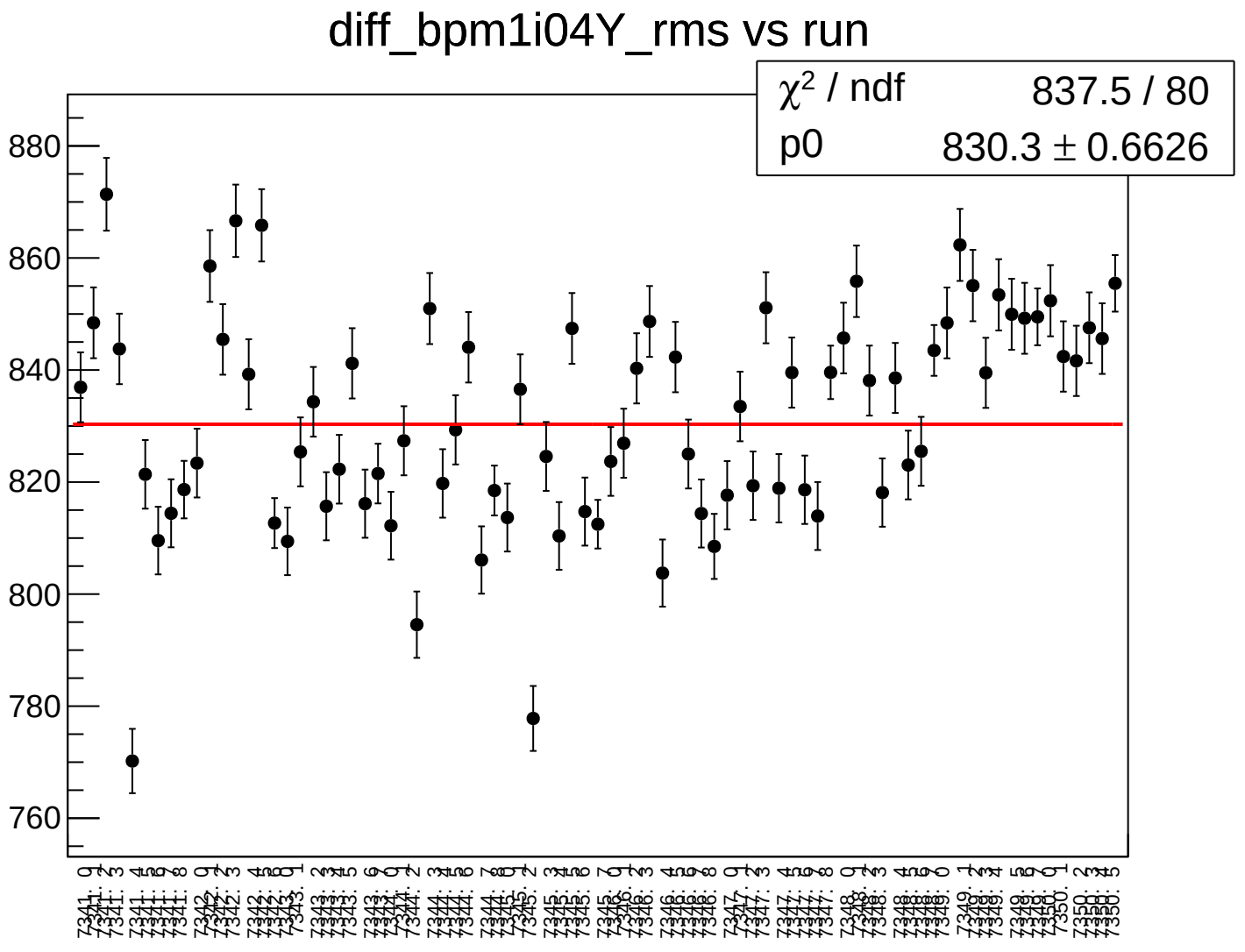

diff_bpm1i04X_mean vs run
χ² / ndf 93.27 / 80
p0 48.2 ± 1.158
pull
Entries 81
Mean −186.9
Std Dev 220.5

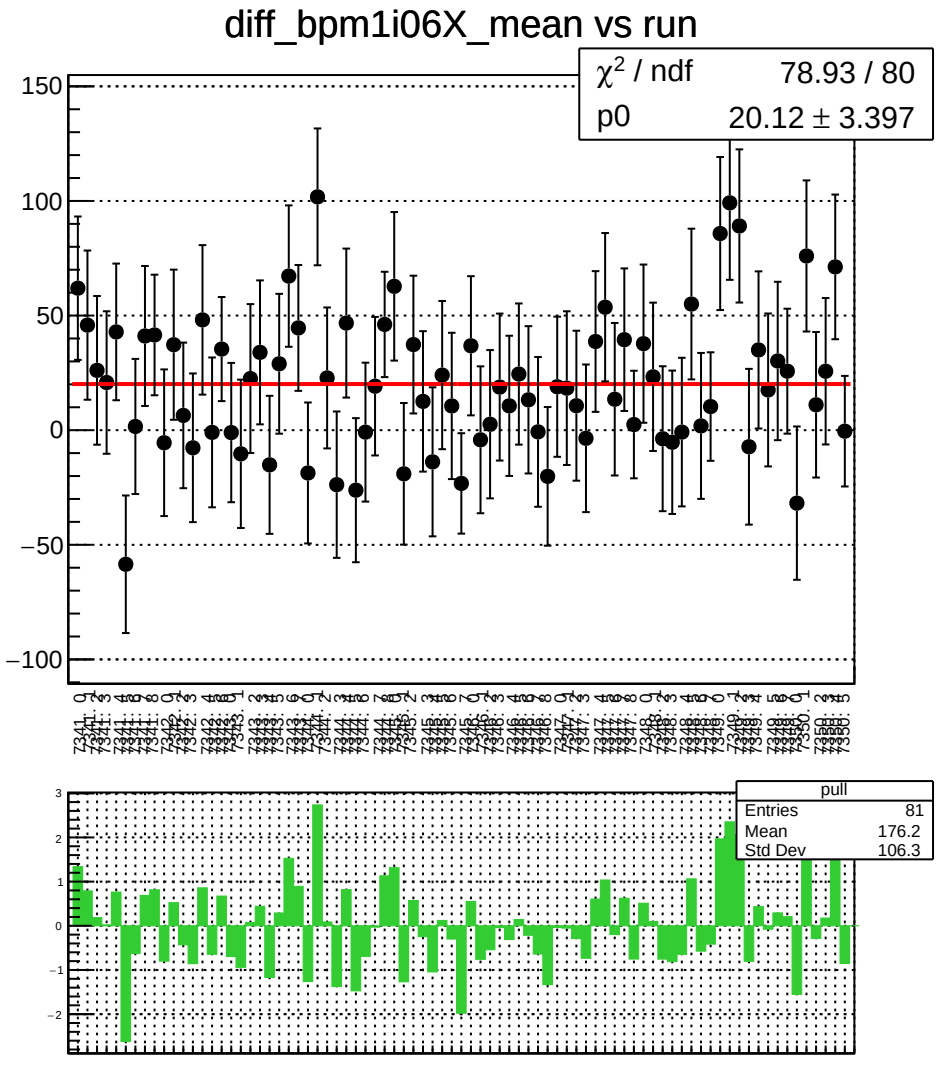

pull1D
Entries 81
Mean −0.005949
Std Dev 1.073

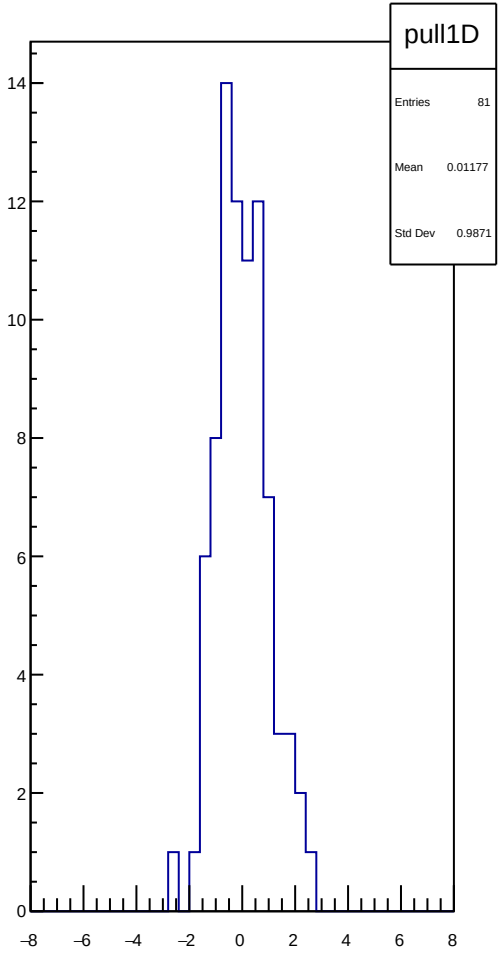

diff_bpm1i04X_rms vs run
χ² / ndf 526 / 80
p0 1026 ± 0.8187
1080
1060
1040
1020
1000
980
960
940

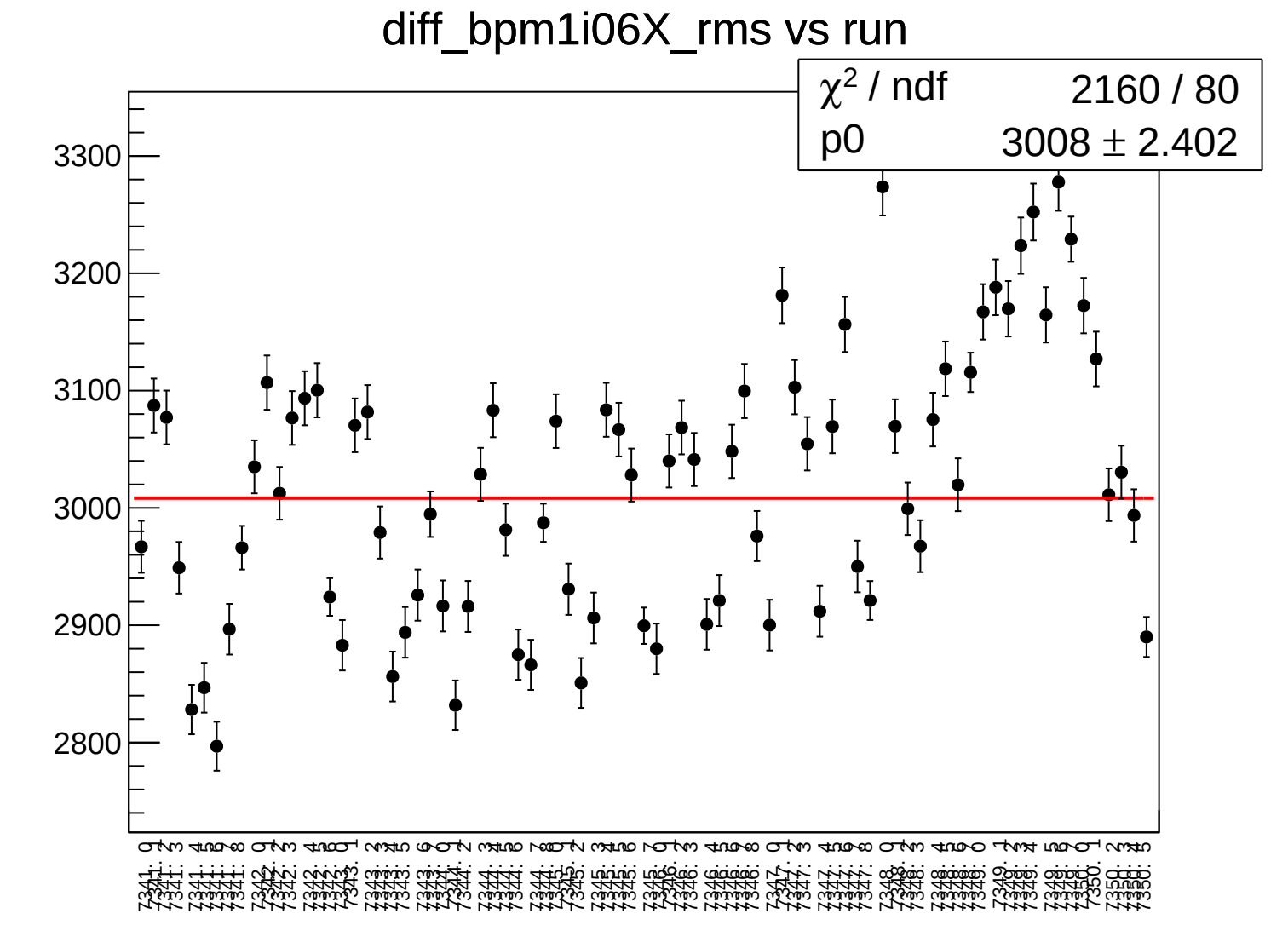

diff_bpm1i04Y_mean vs run
χ² / ndf 71.66 / 80
p0 −22.18 ± 0.9371
pull
Entries 81
Mean −122.4
Std Dev 141.2

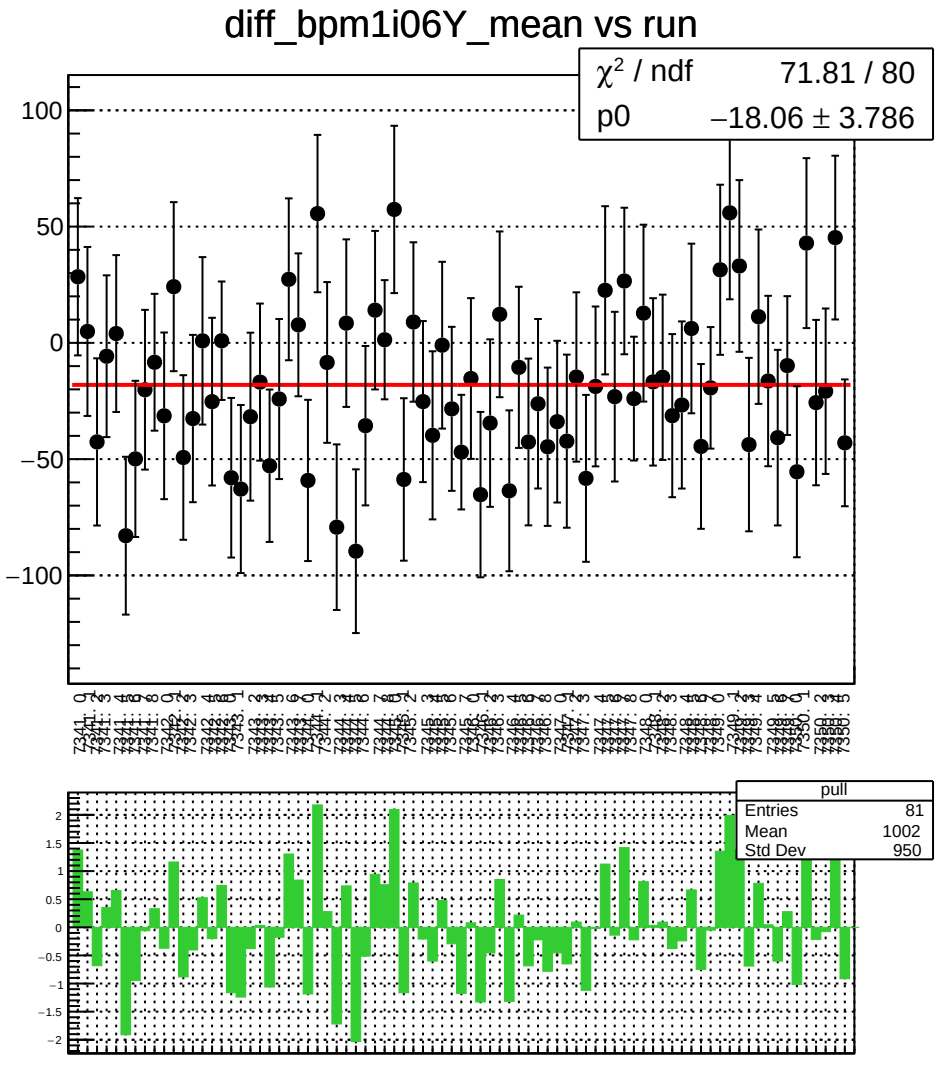

pull1D
Entries 81
Mean −0.01126
Std Dev 0.9405

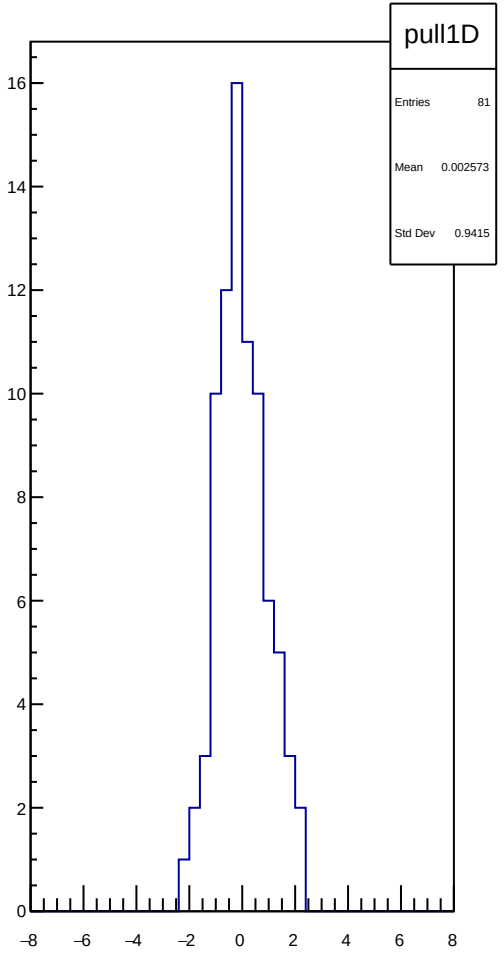

diff_bpm1i04Y_rms vs run
χ² / ndf 837.5 / 80
p0 830.3 ± 0.6626
880
860
840
820
800
780
760

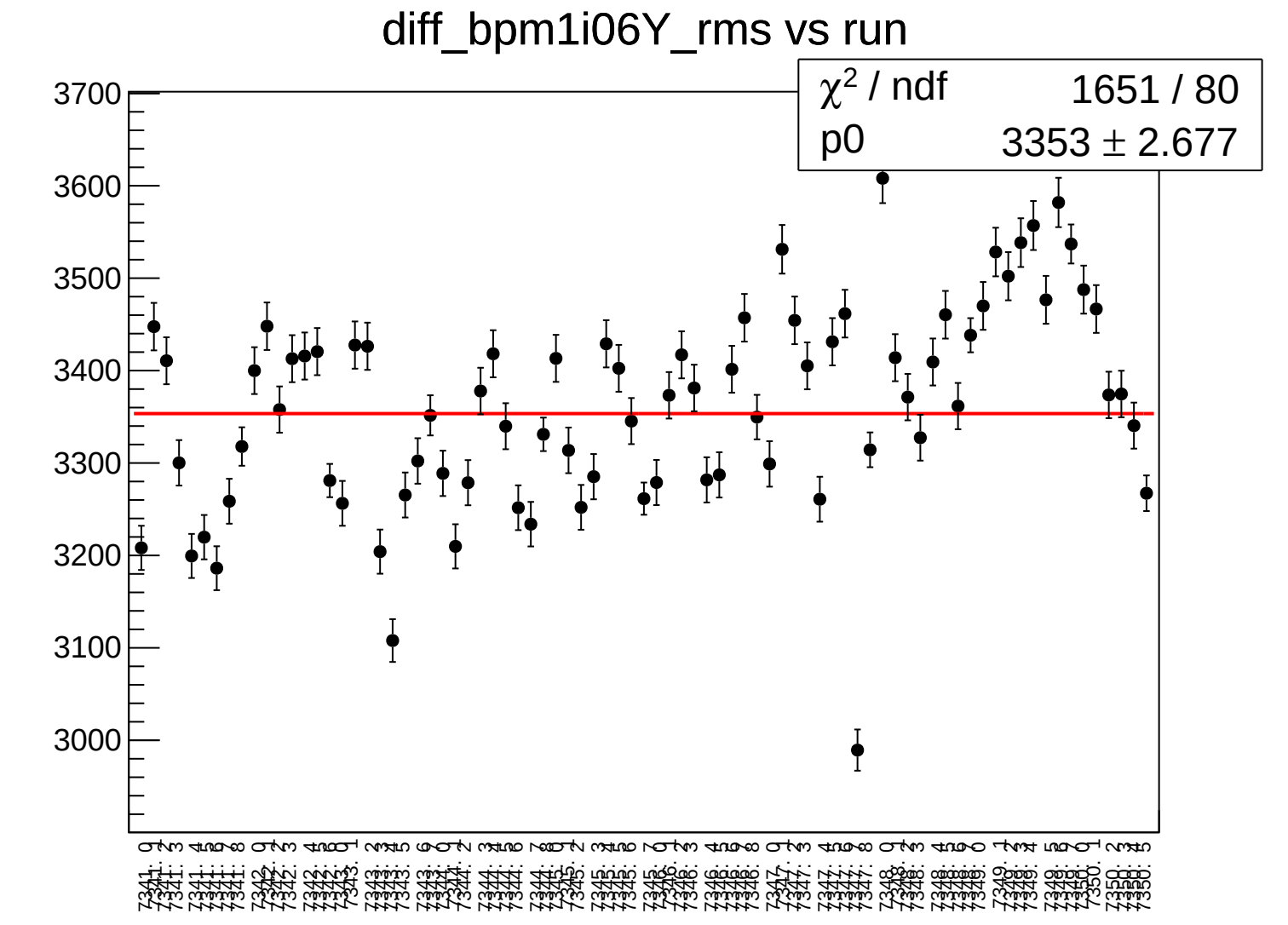

diff_bpm1i06X_mean vs run
χ² / ndf 78.93 / 80
p0 20.12 ± 3.397
pull
Entries 81
Mean 176.2
Std Dev 106.3

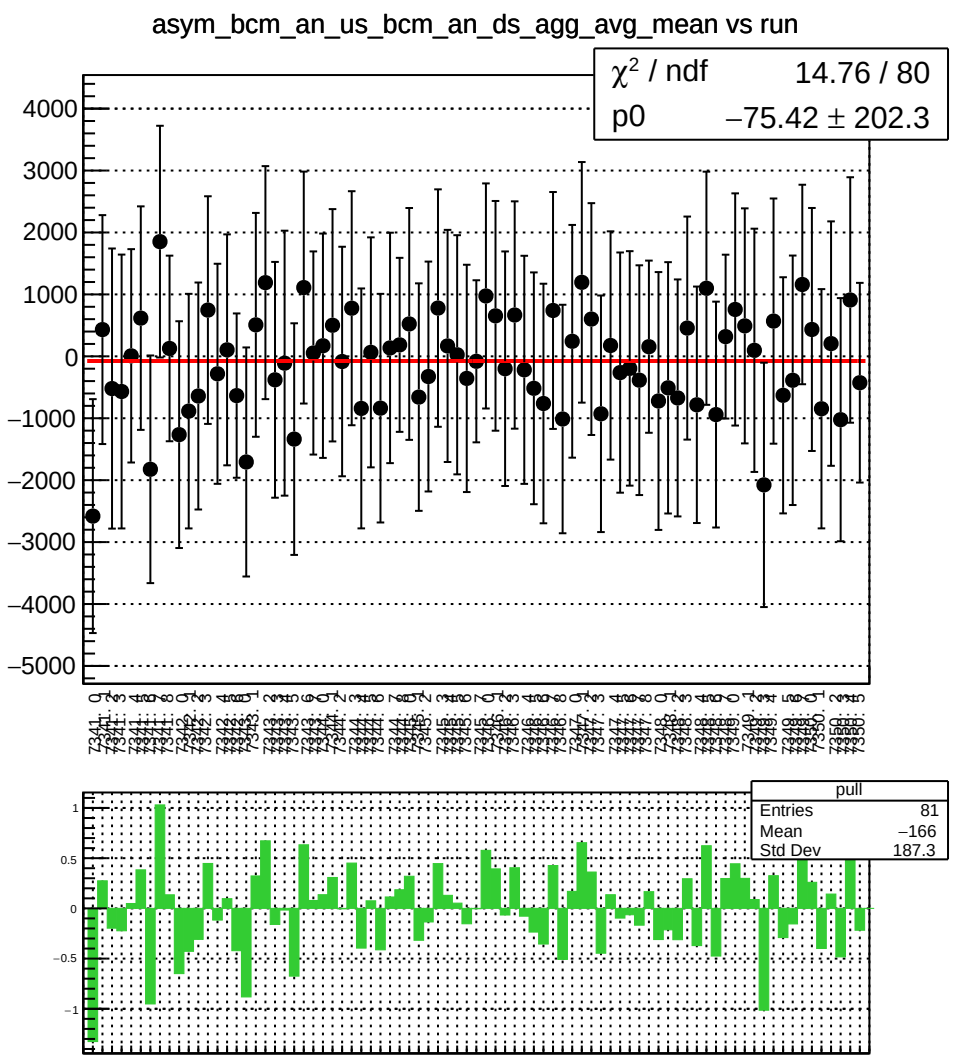

pull1D
Entries 81
Mean 0.01177
Std Dev 0.9871

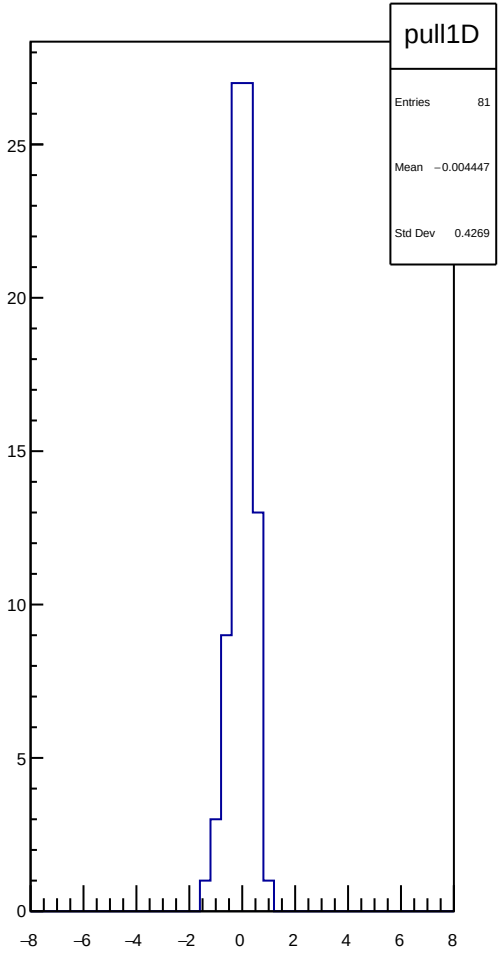

diff_bpm1i06X_rms vs run
χ² / ndf 2160 / 80
p0 3008 ± 2.402
3300
3200
3100
3000
2900
2800

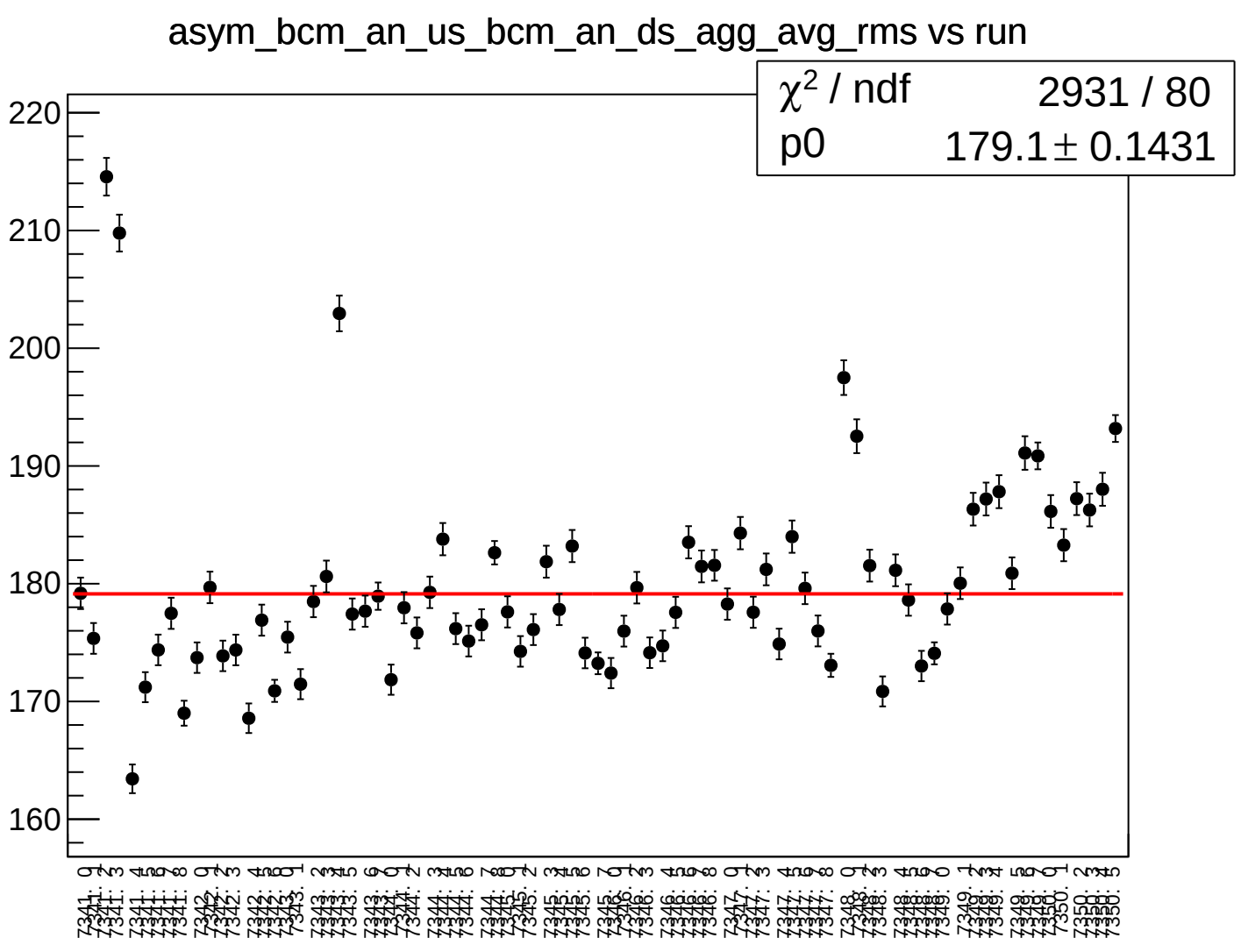

diff_bpm1i06Y_mean vs run
χ² / ndf 71.81 / 80
p0 −18.06 ± 3.786
pull
Entries 81
Mean 1002
Std Dev 950

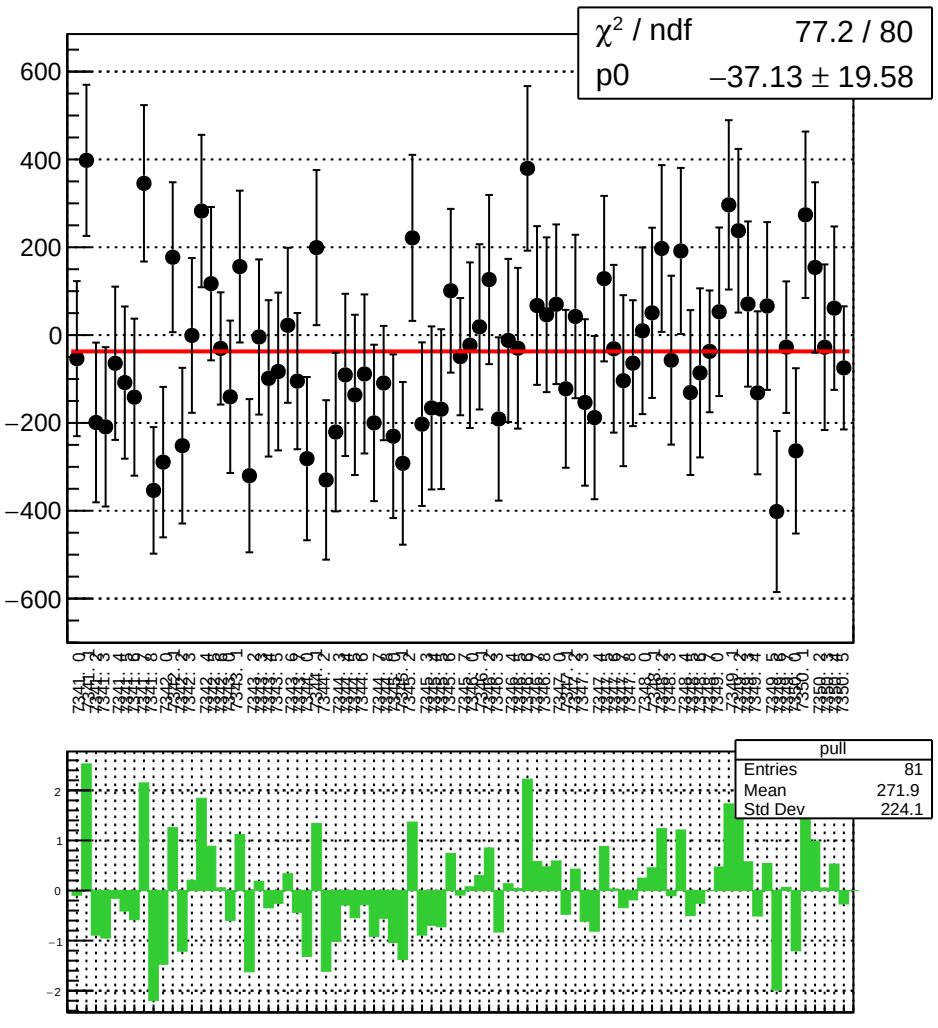

pull1D
Entries 81
Mean 0.002573
Std Dev 0.9415

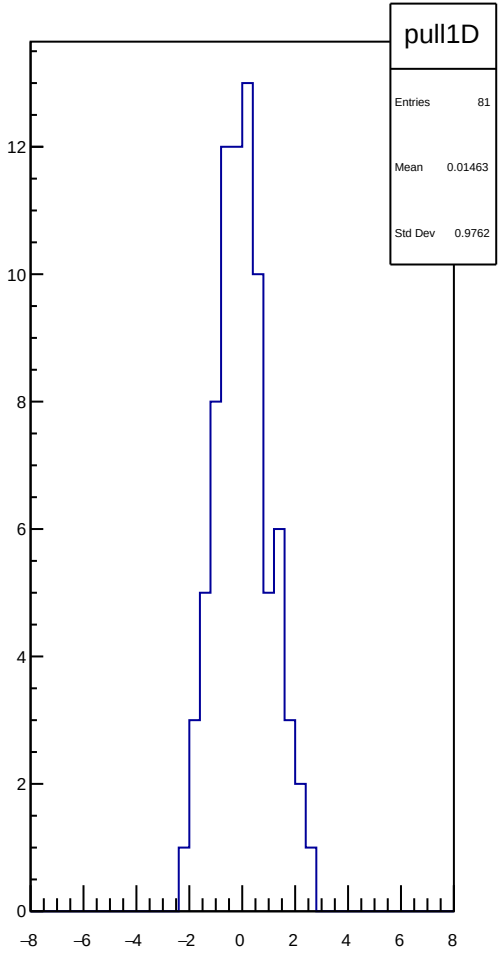

diff_bpm1i06Y_rms vs run
χ^2 / ndf 1651 / 80
p0 3353 ± 2.677
3700
3600
3500
3400
3300
3200
3100
3000

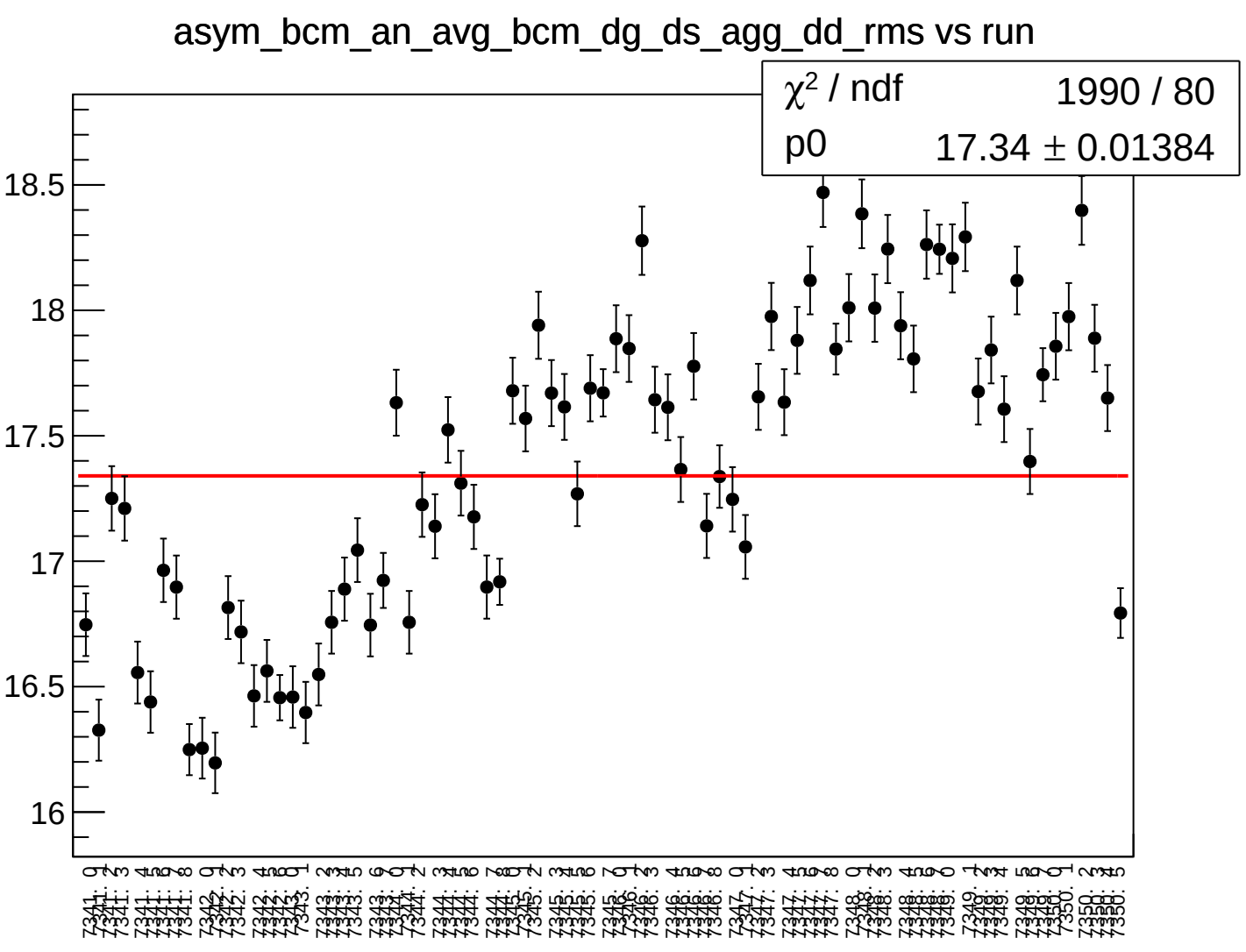

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.76 / 80
p0 −75.42 ± 202.3
pull
Entries 81
Mean −166
Std Dev 187.3

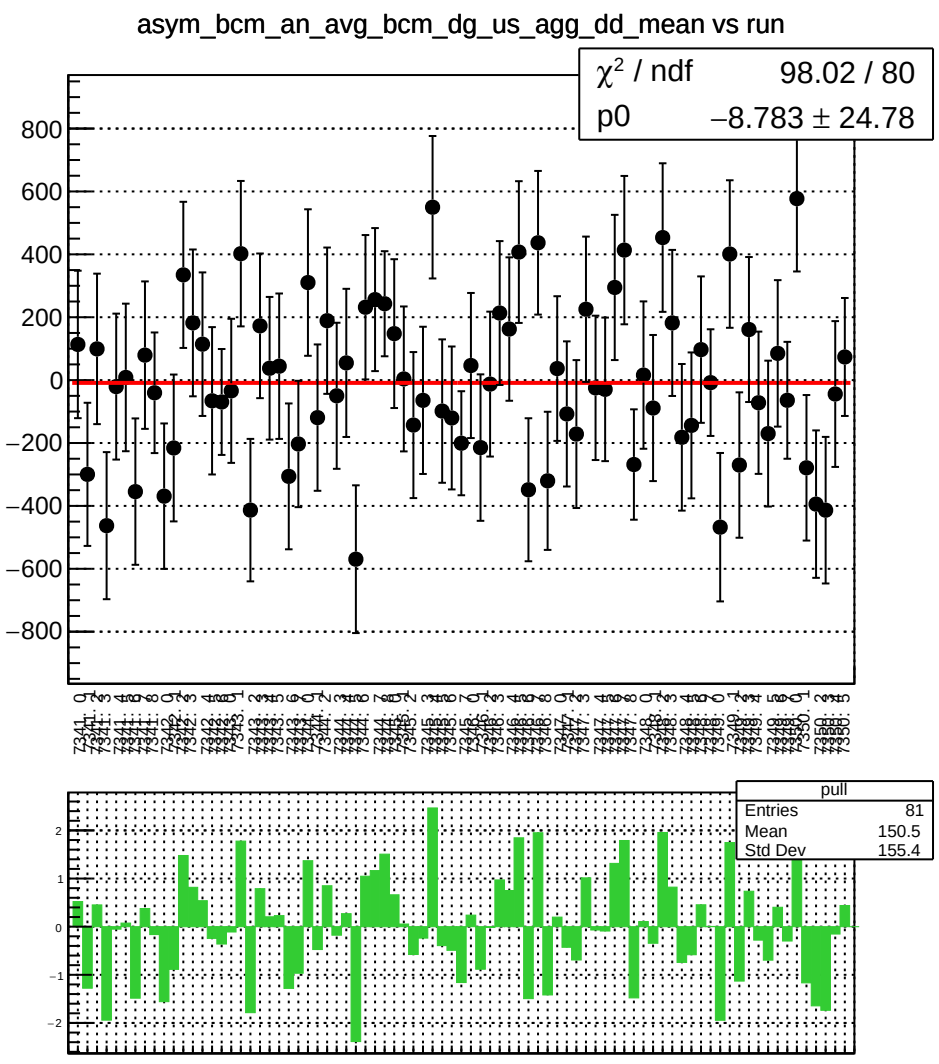

pull1D
Entries 81
Mean −0.004447
Std Dev 0.4269

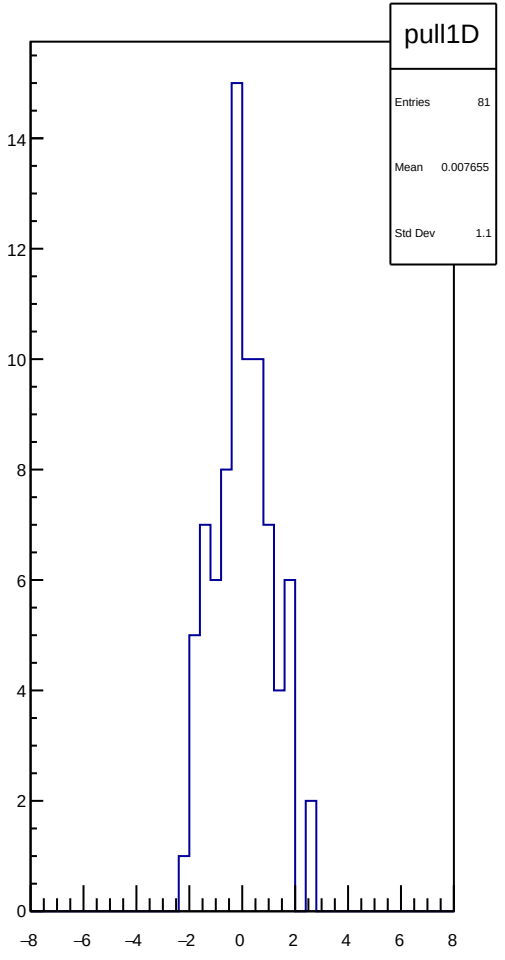

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2931 / 80
p0 179.1 ± 0.1431
220
210
200
190
180
170
160

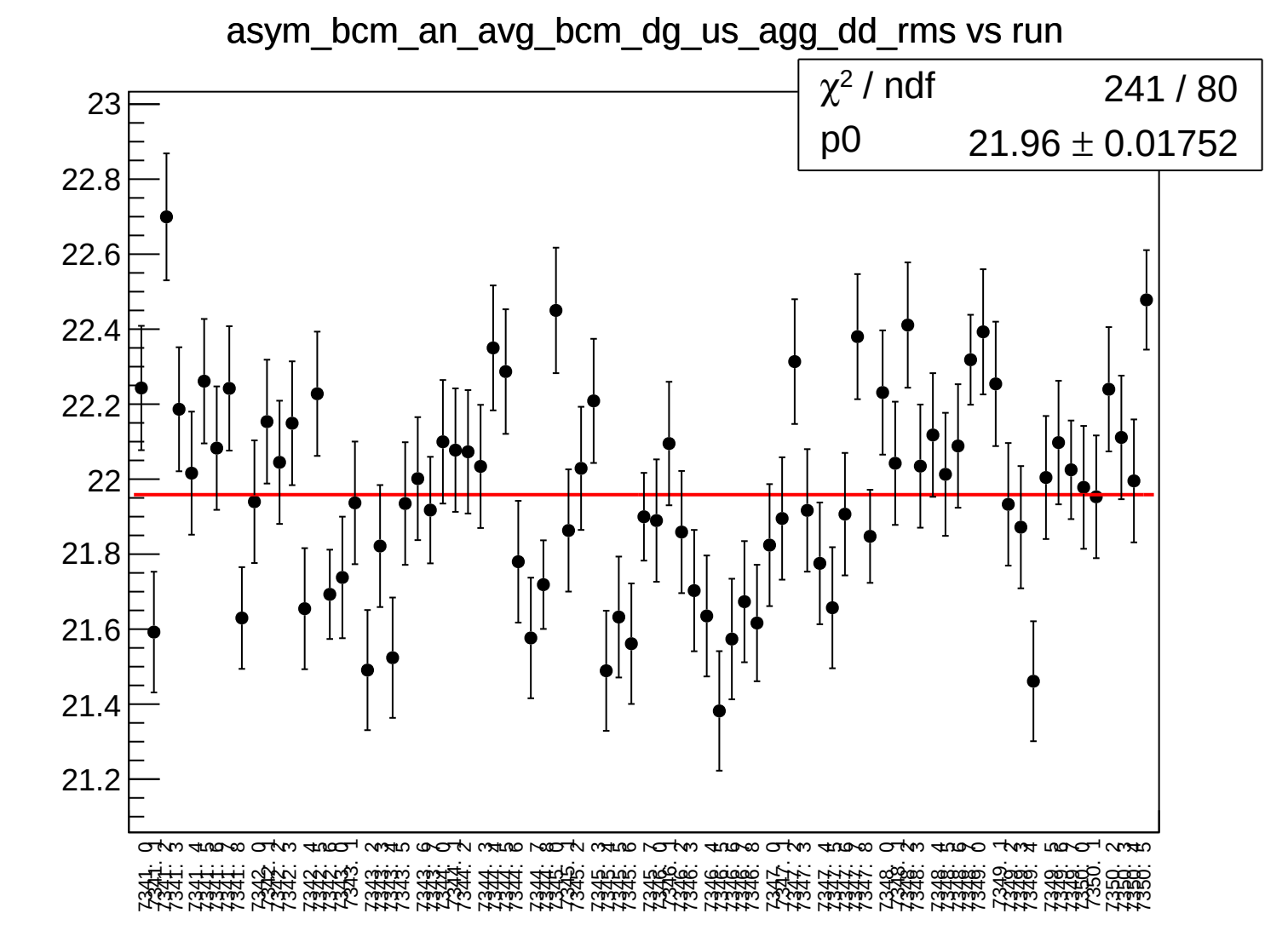

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.2 / 80
p0 −37.13 ± 19.58
pull
Entries 81
Mean 271.9
Std Dev 224.1

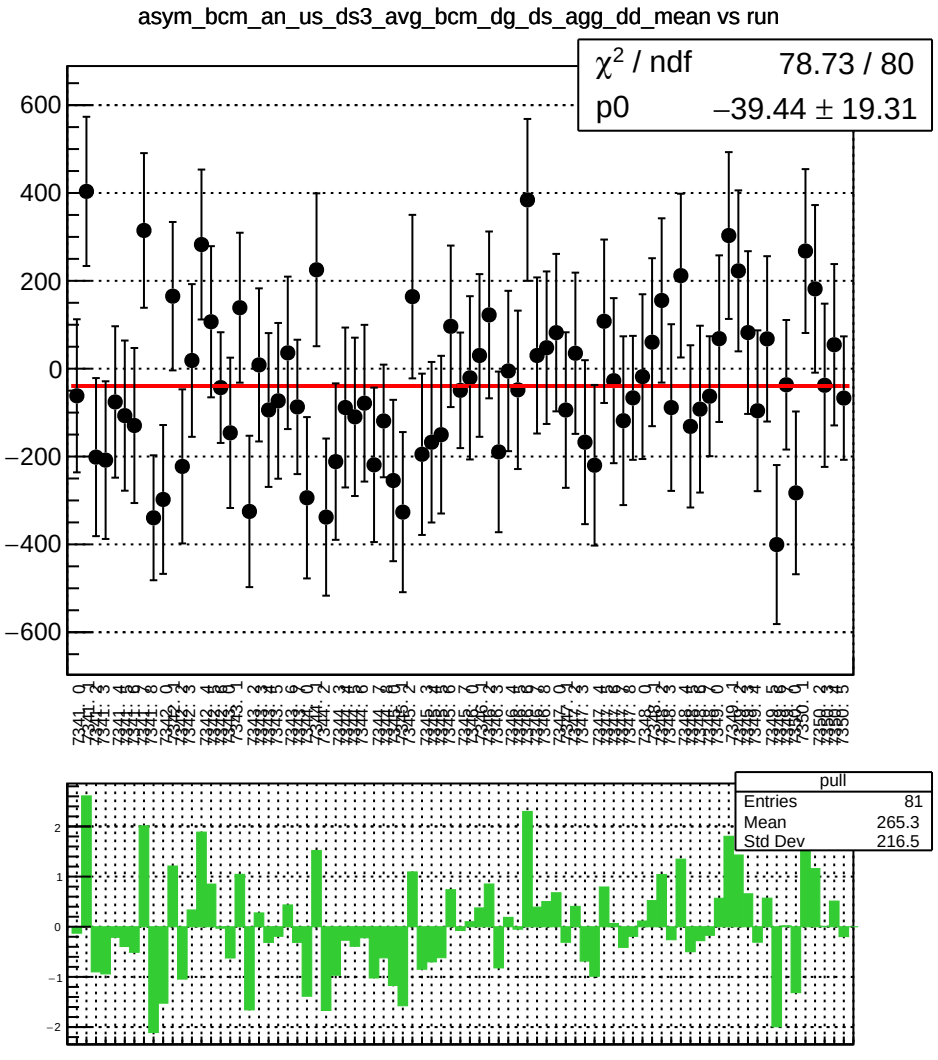

pull1D
Entries 81
Mean 0.01463
Std Dev 0.9762

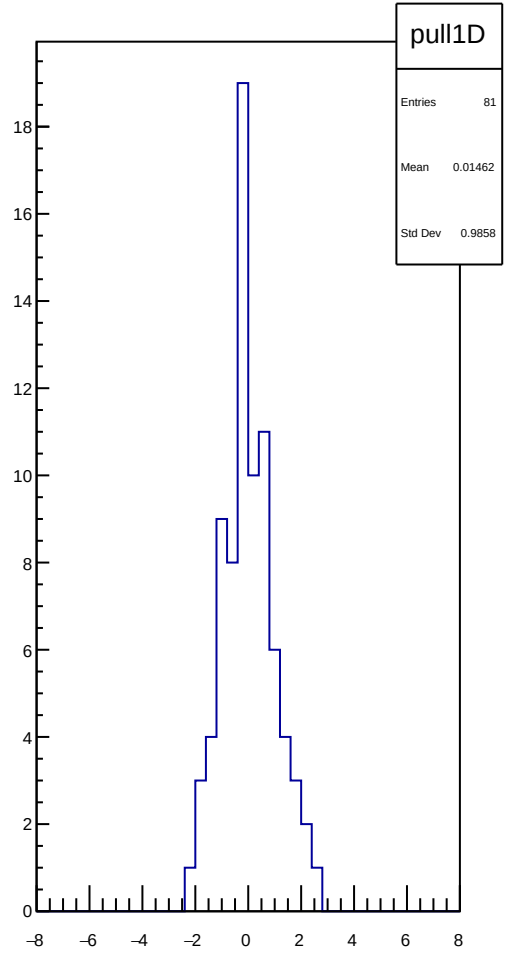

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1990 / 80
p0 17.34 ± 0.01384
18.5
18
17.5
17
16.5
16

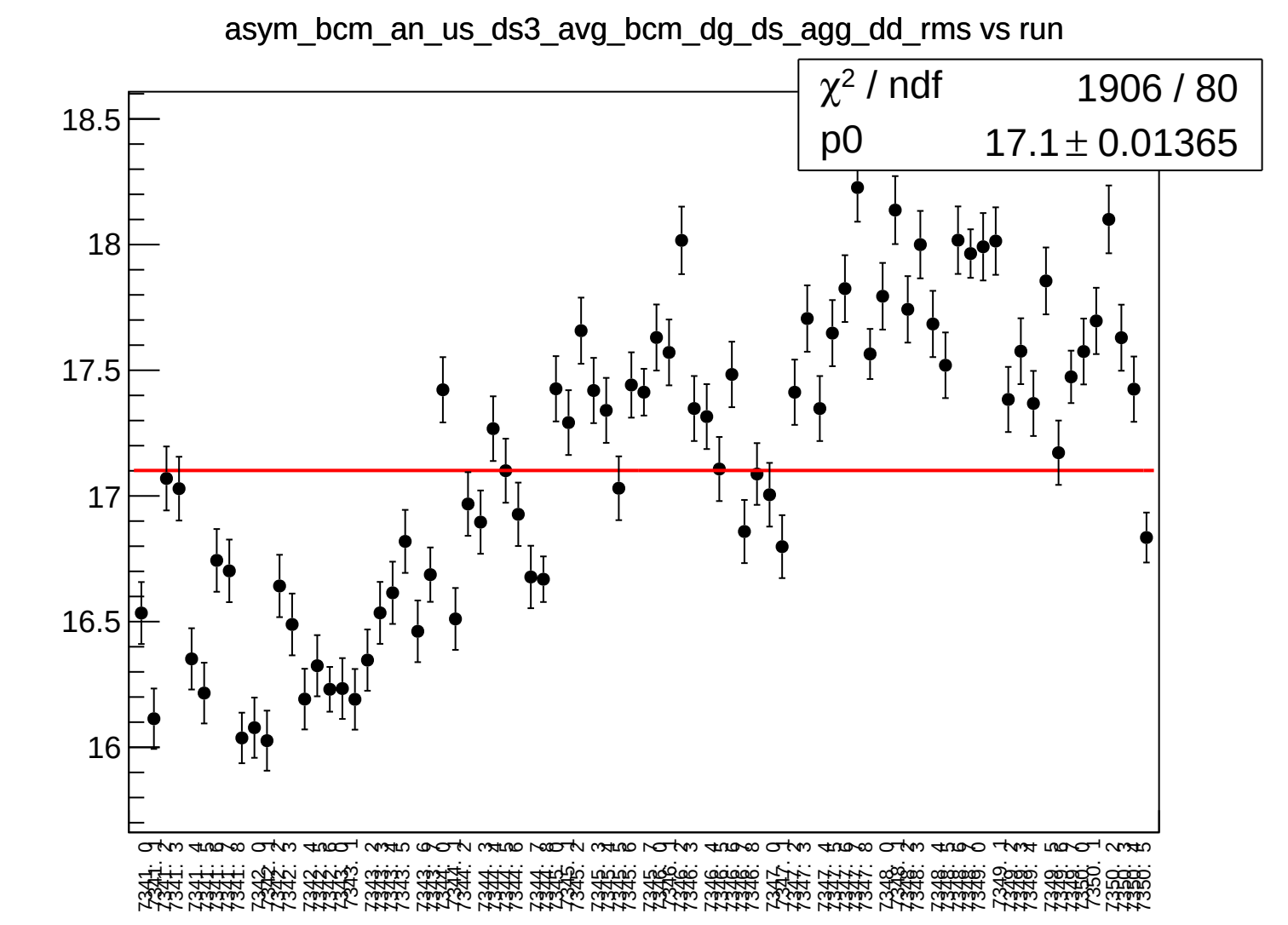

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 98.02 / 80
p0 −8.783 ± 24.78
pull
Entries 81
Mean 150.5
Std Dev 155.4

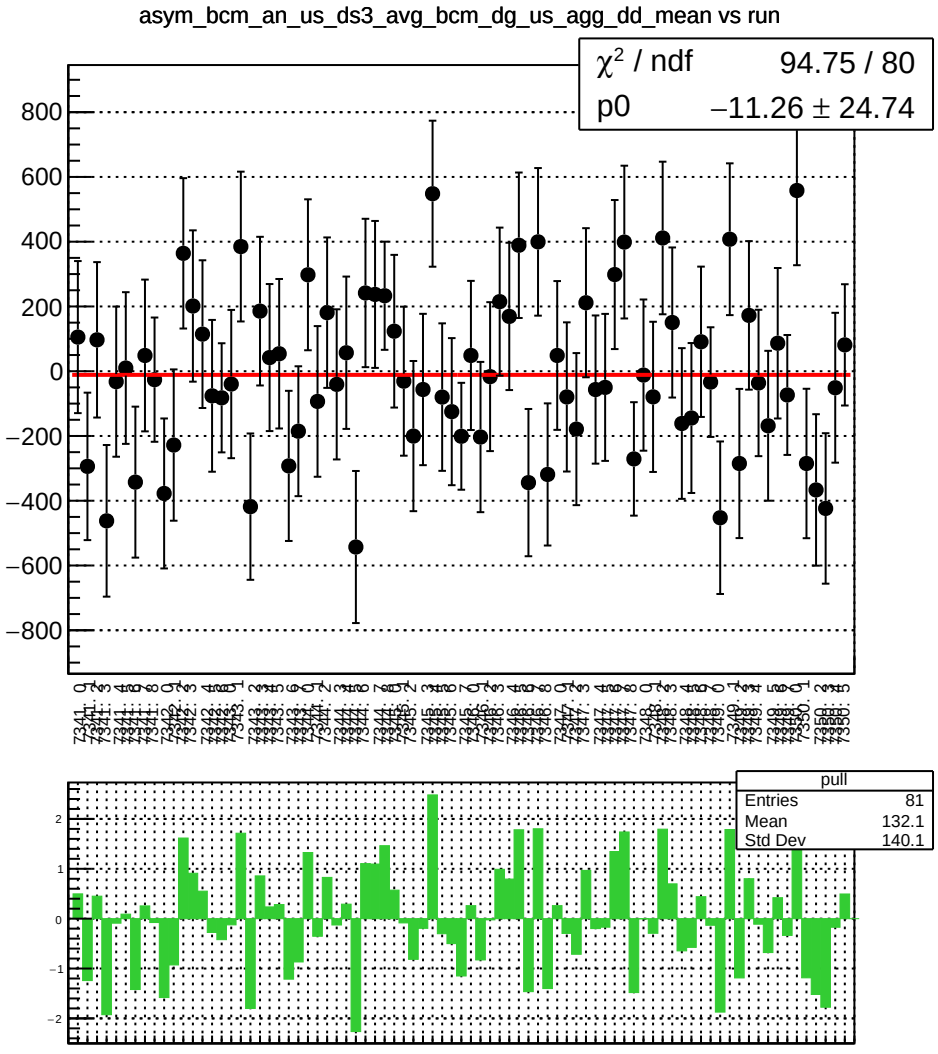

pull1D
Entries 81
Mean 0.007655
Std Dev 1.1

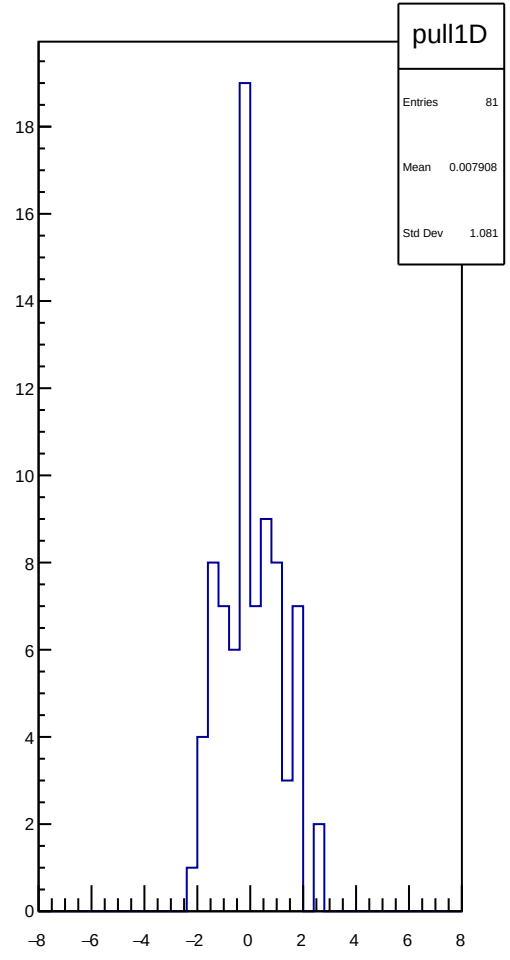

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 241 / 80
p0 21.96 ± 0.01752
23
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2

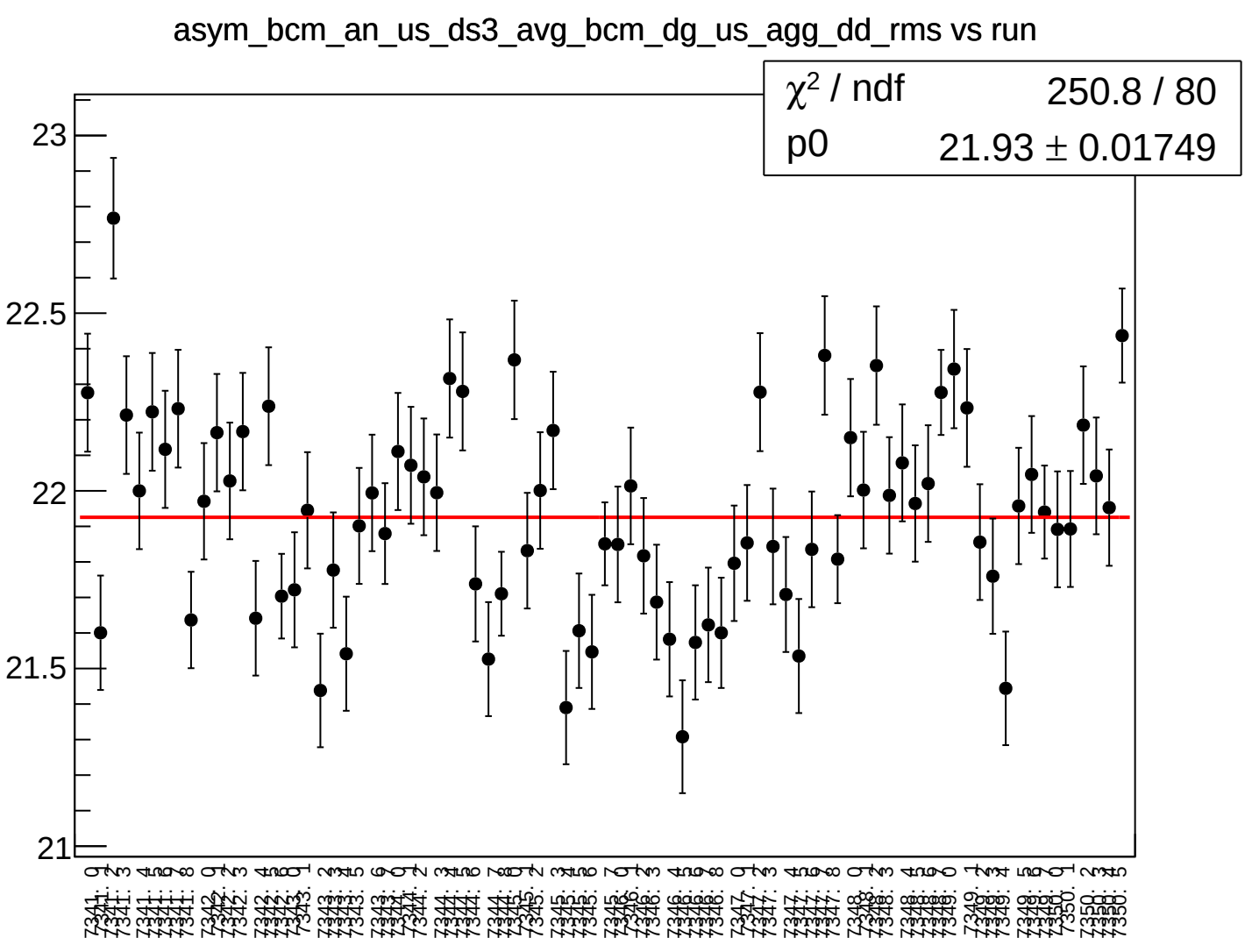

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.73 / 80
p0 −39.44 ± 19.31
pull
Entries 81
Mean 265.3
Std Dev 216.5

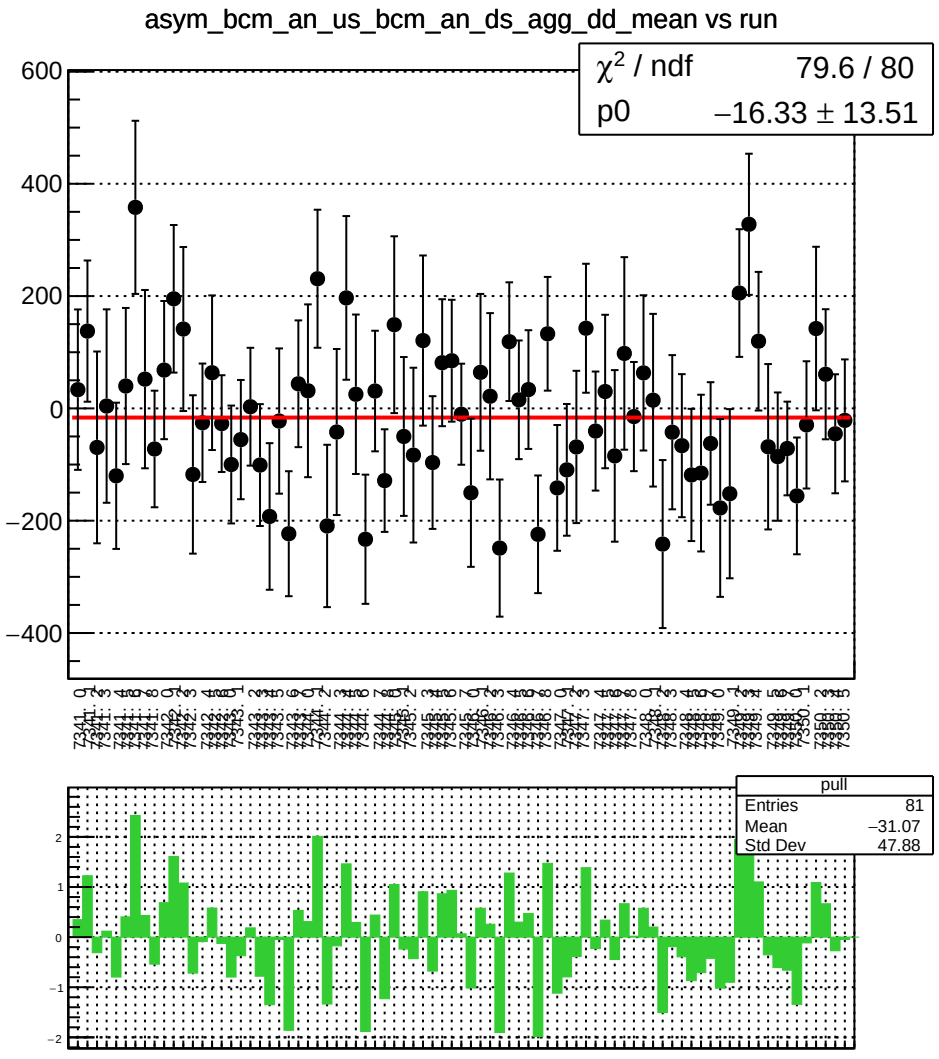

pull1D
Entries 81
Mean 0.01462
Std Dev 0.9858

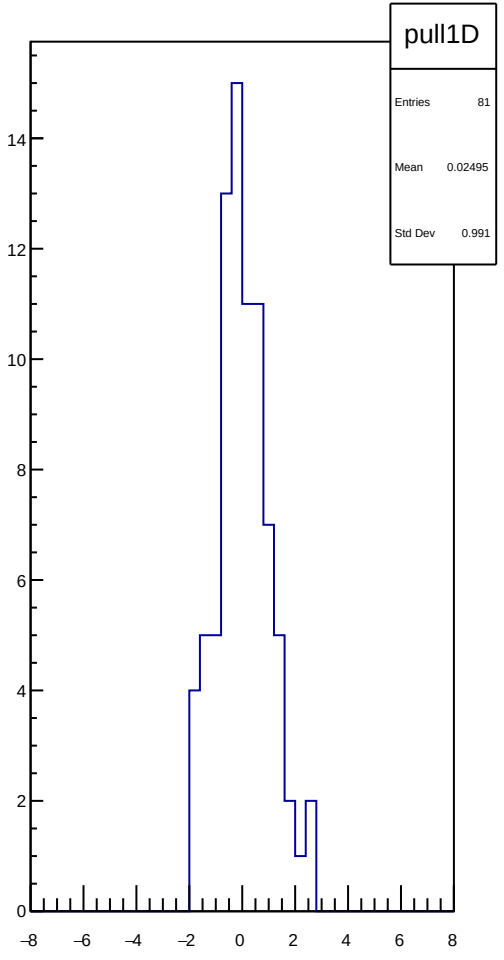

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1906 / 80
p0 17.1 ± 0.01365
18.5
18
17.5
17
16.5
16

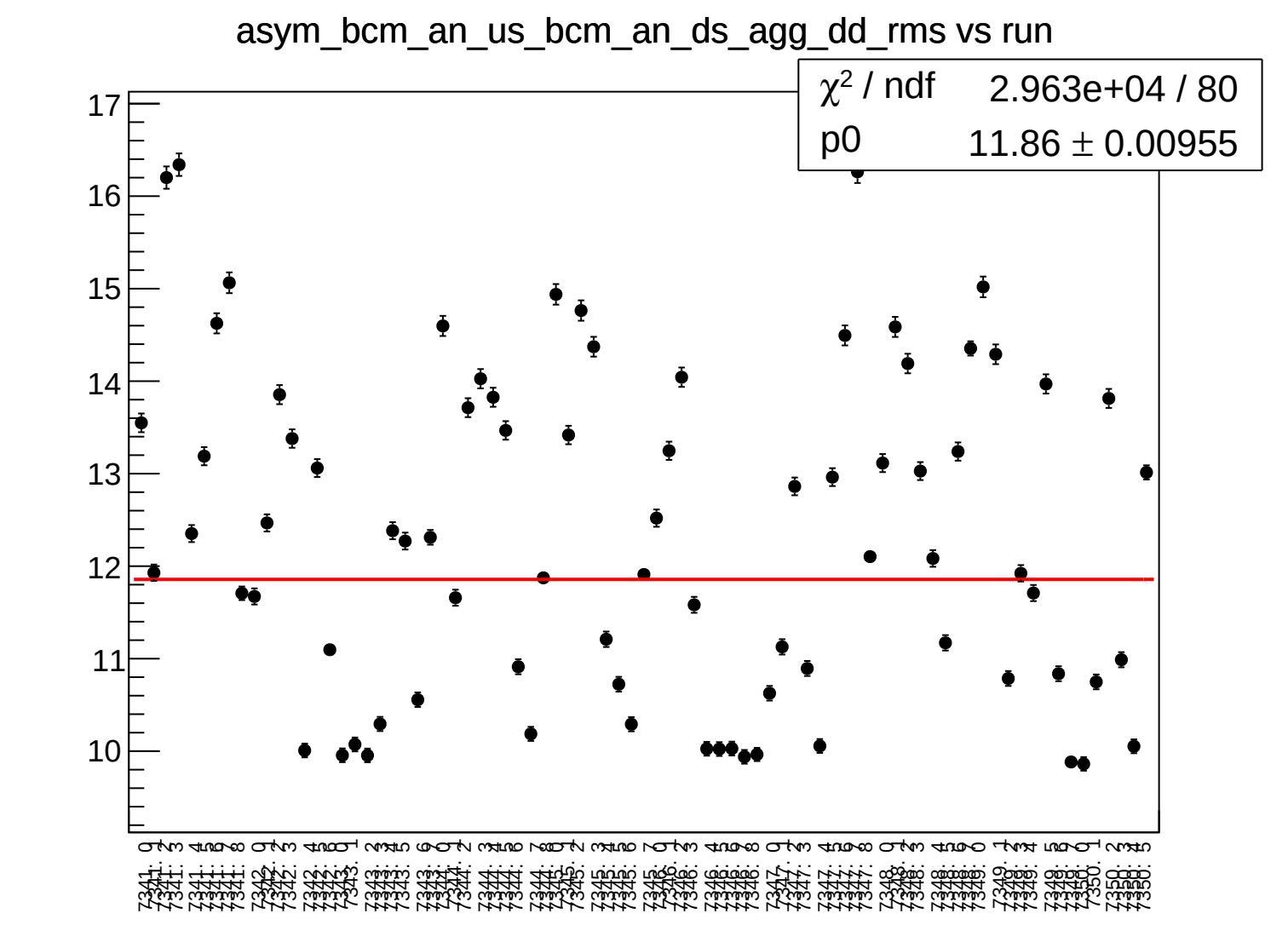

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 94.75 / 80
p0 −11.26 ± 24.74
pull
Entries 81
Mean 132.1
Std Dev 140.1

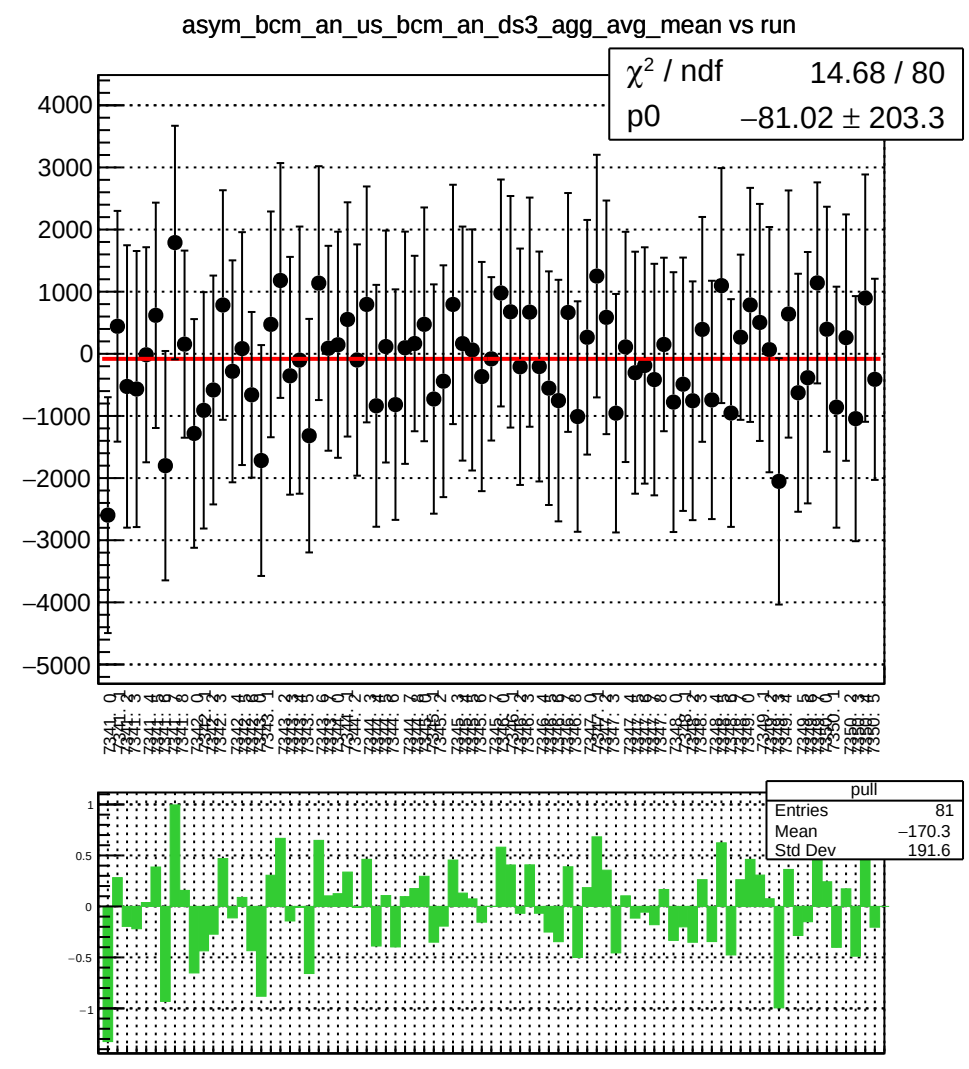

pull1D
Entries 81
Mean 0.007908
Std Dev 1.081

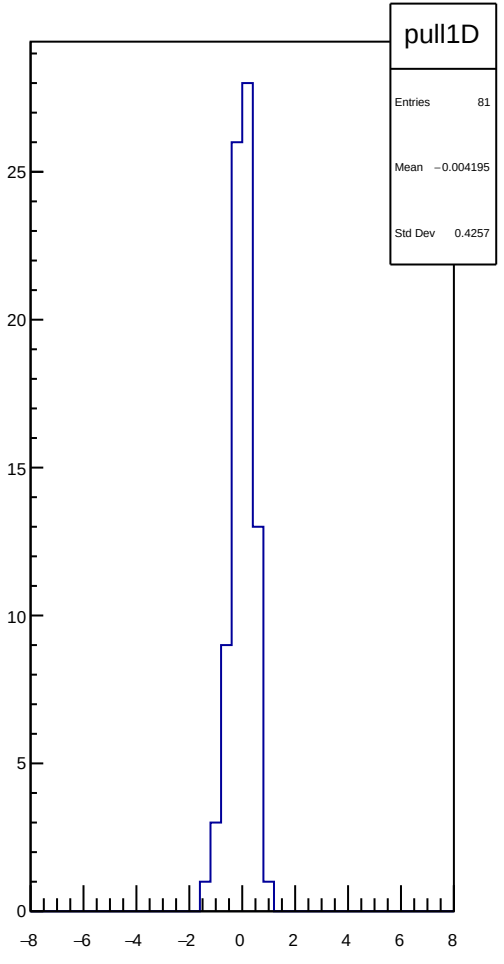

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 250.8 / 80
p0 21.93 ± 0.01749
23
22.5
22
21.5
21

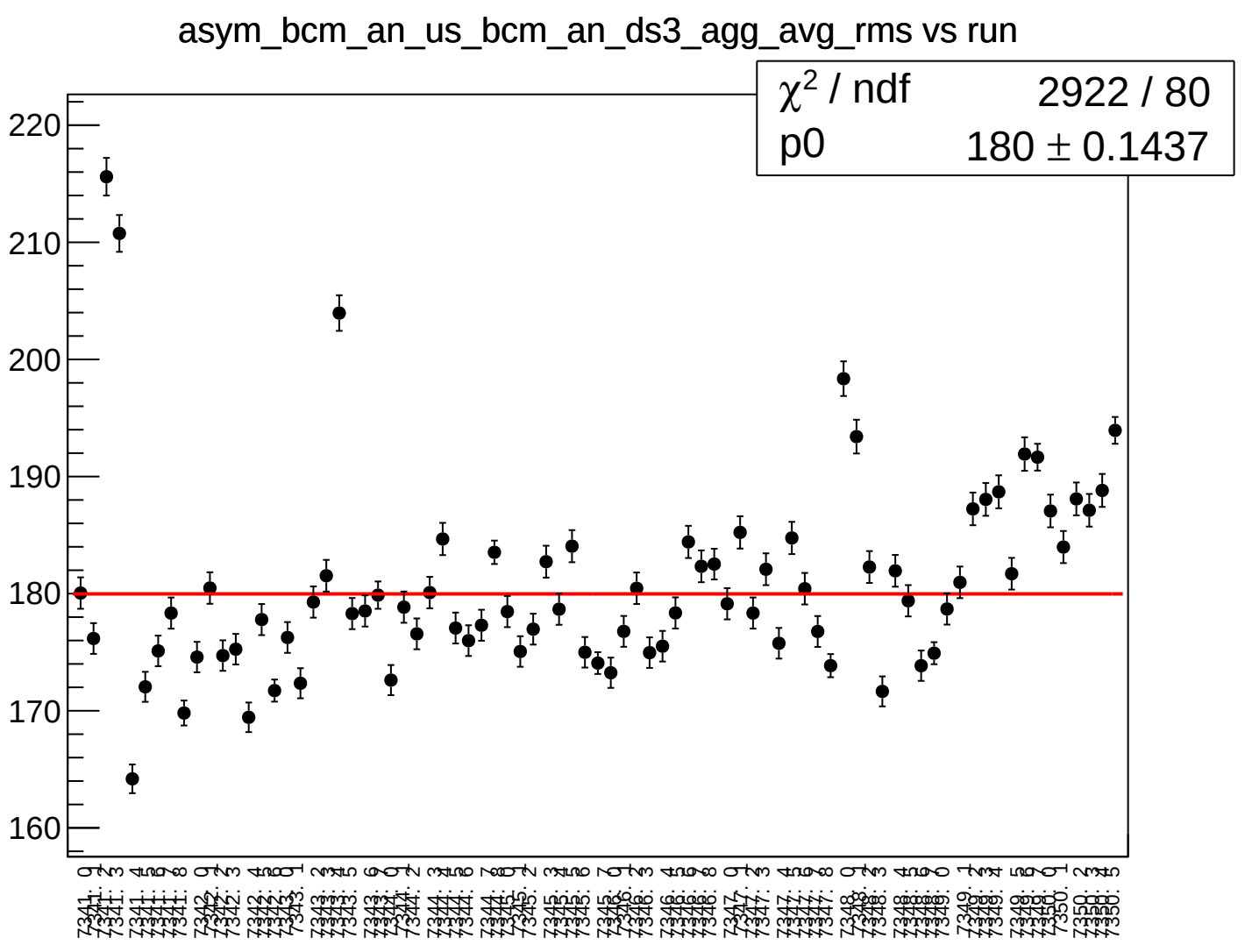

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.6 / 80
p0 −16.33 ± 13.51
pull
Entries 81
Mean −31.07
Std Dev 47.88

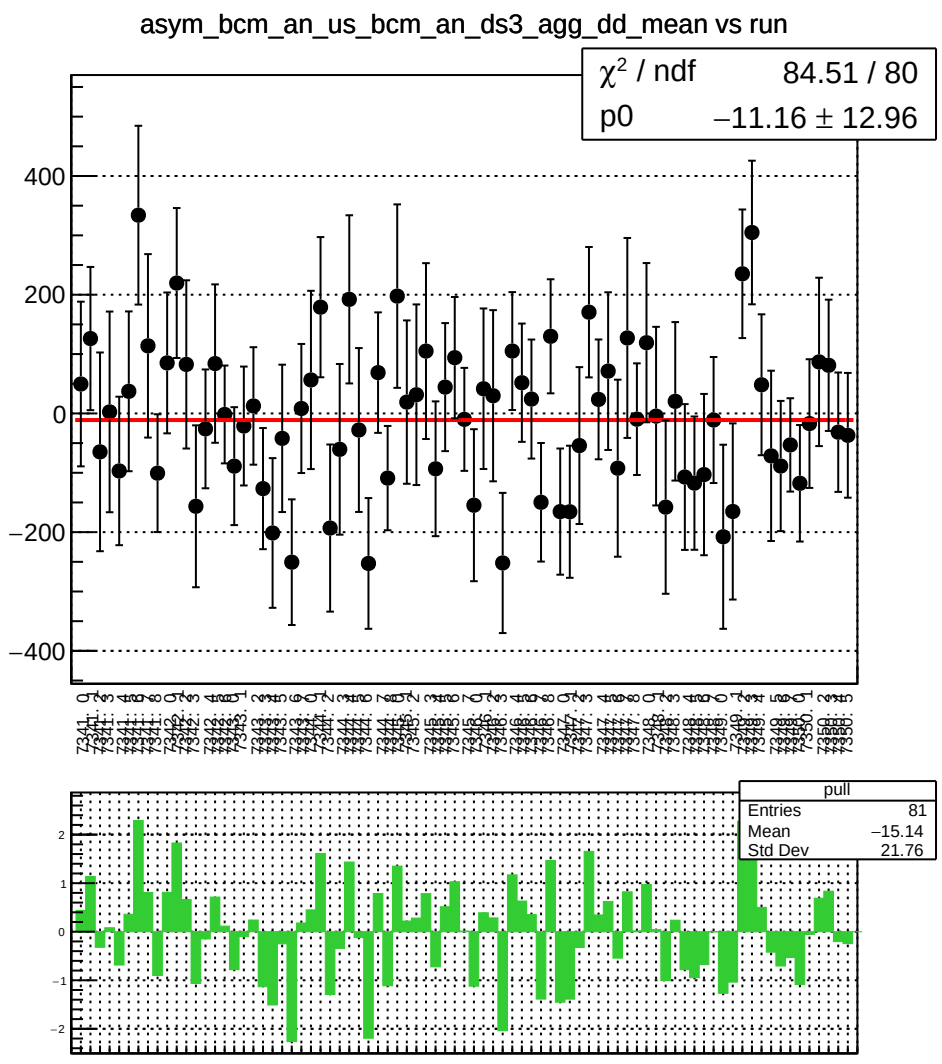

pull1D
Entries 81
Mean 0.02495
Std Dev 0.991

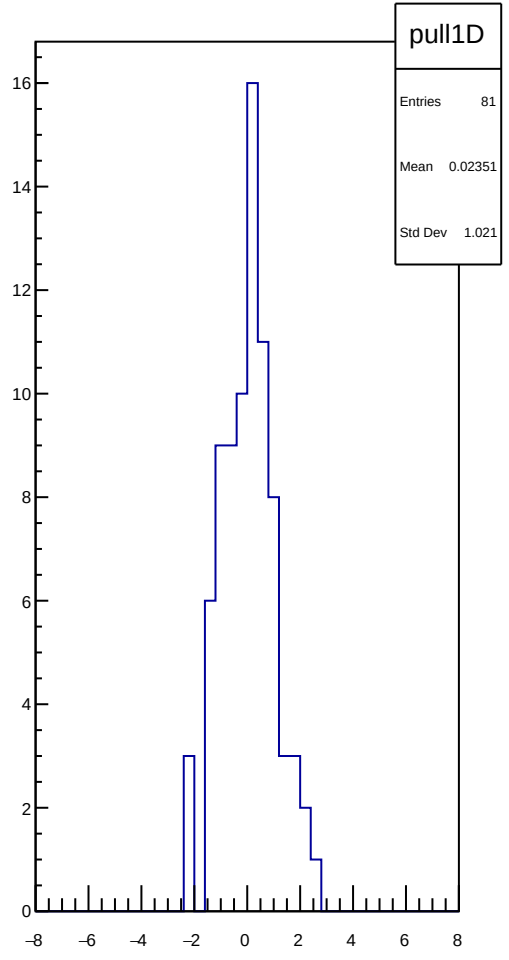

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2.963e+04 / 80
p0 11.86 ± 0.00955
17
16
15
14
13
12
11
10

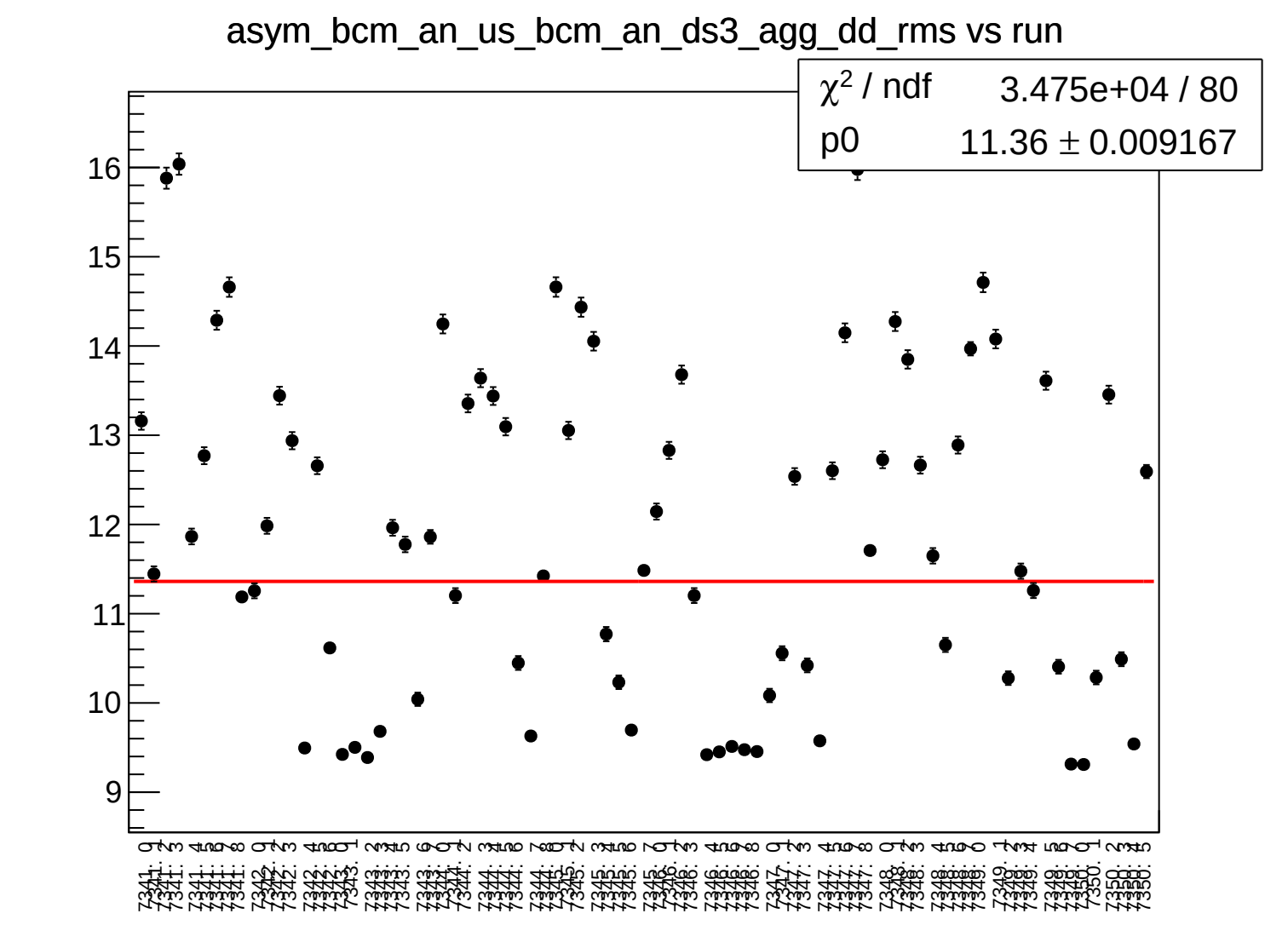

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.68 / 80
p0 −81.02 ± 203.3
pull
Entries 81
Mean −170.3
Std Dev 191.6

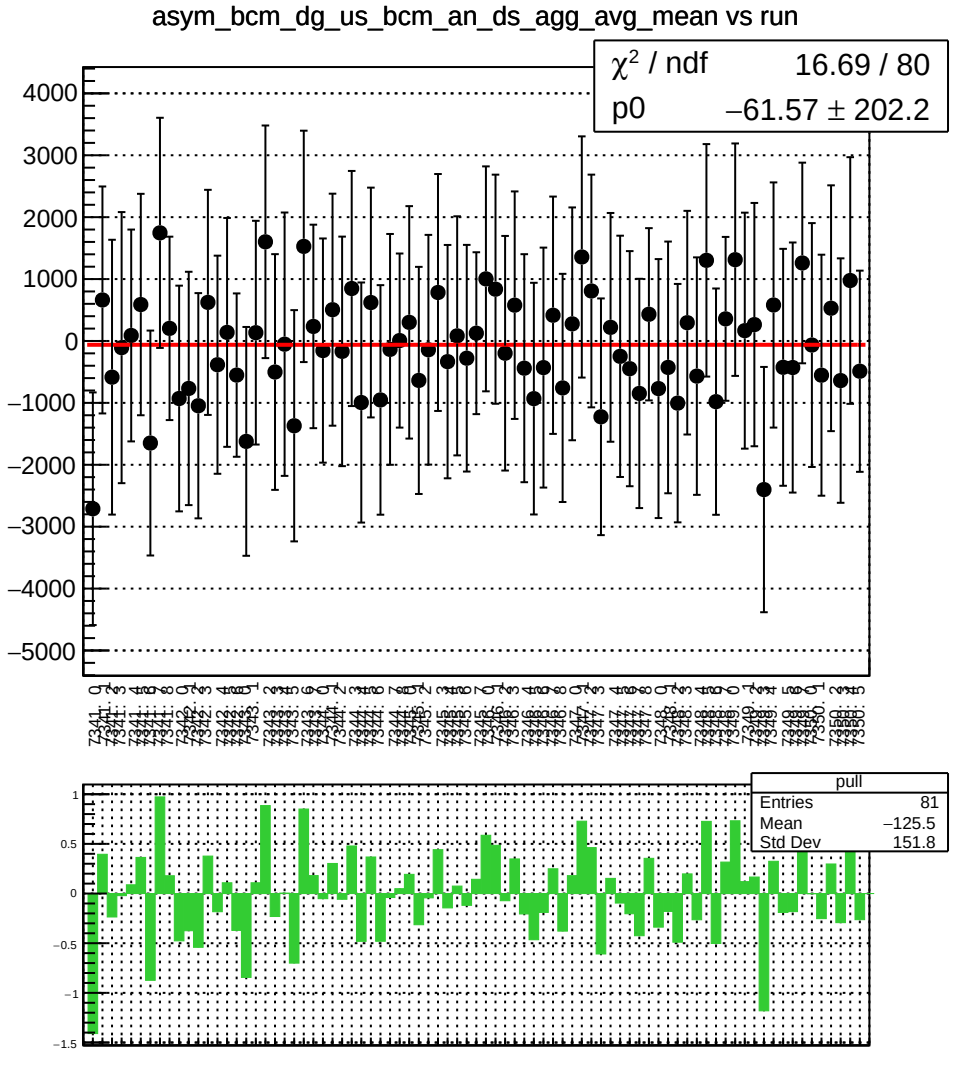

pull1D
Entries 81
Mean −0.004195
Std Dev 0.4257

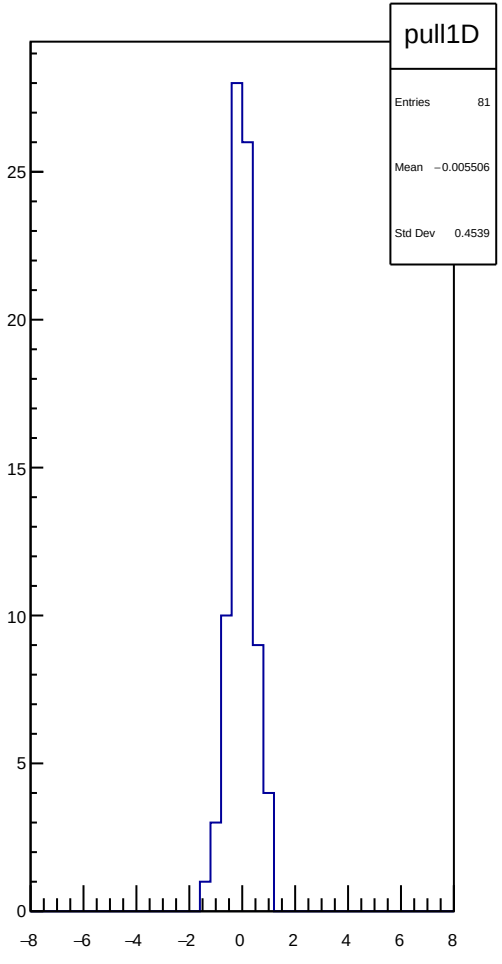

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2922 / 80
p0 180 ± 0.1437
220
210
200
190
180
170
160

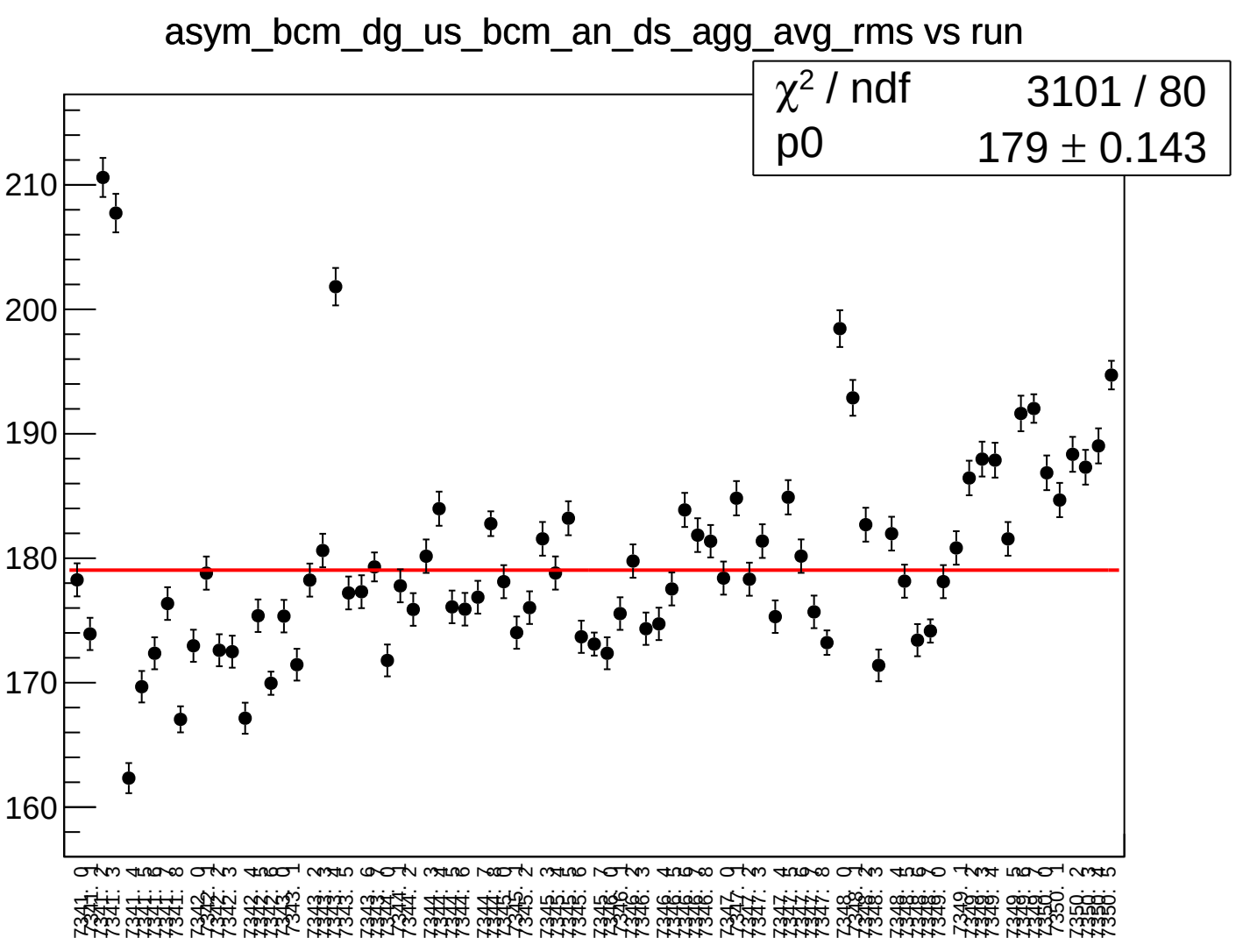

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 84.51 / 80
p0 −11.16 ± 12.96
400
200
0
−200
−400
pull
Entries 81
Mean −15.14
Std Dev 21.76
2
1
0
−1
−2

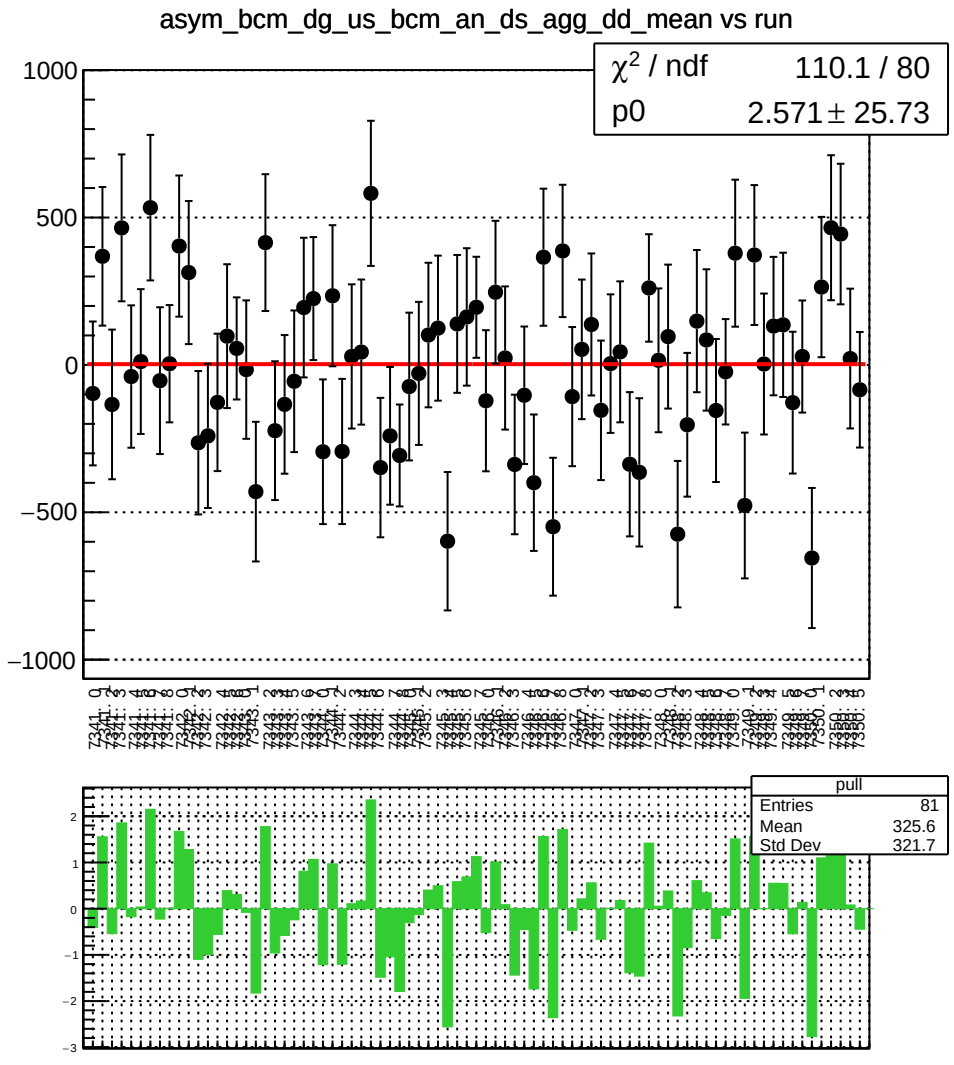

pull1D
Entries 81
Mean 0.02351
Std Dev 1.021
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

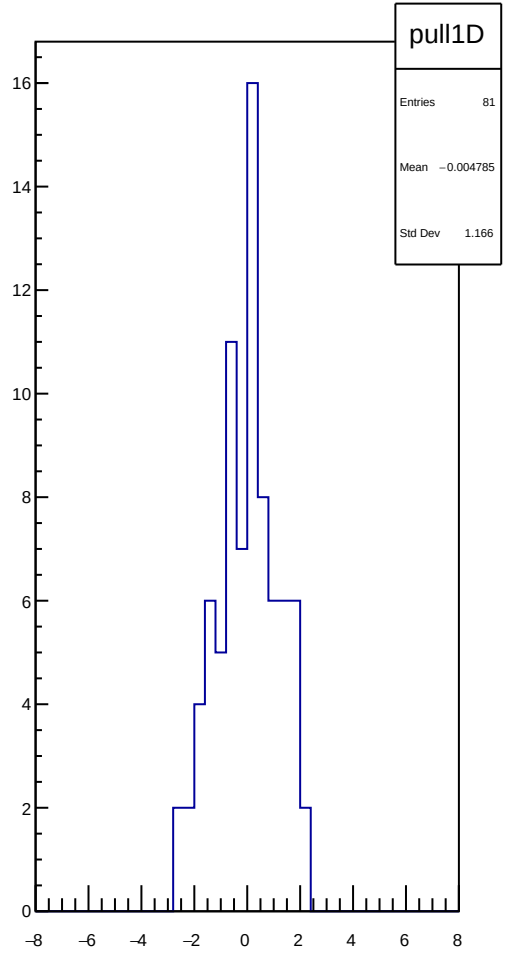

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ^2 / ndf 3.475e+04 / 80
p0 11.36 ± 0.009167
16
15
14
13
12
11
10
9

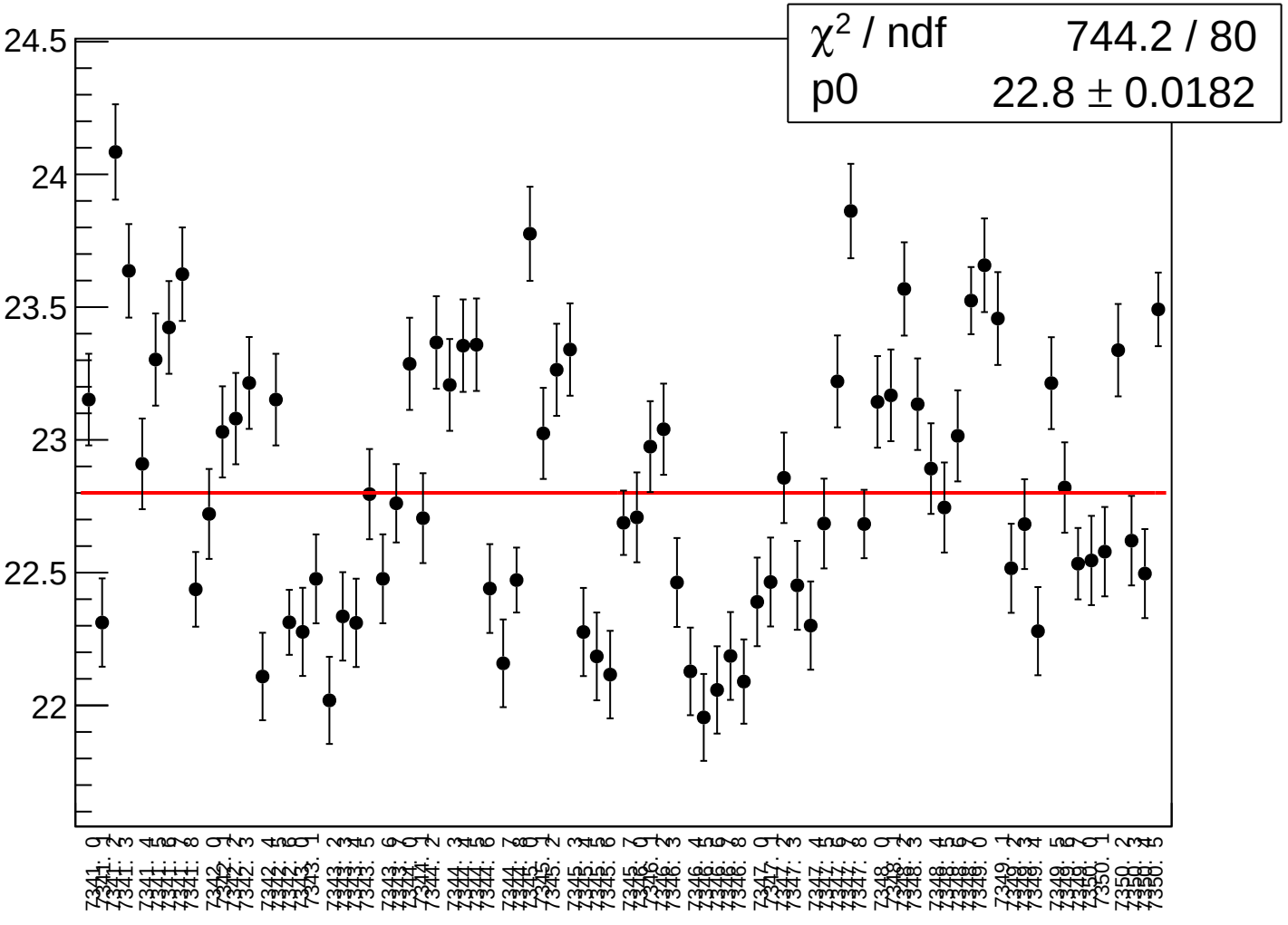

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.69 / 80
p0 −61.57 ± 202.2
pull
Entries 81
Mean −125.5
Std Dev 151.8

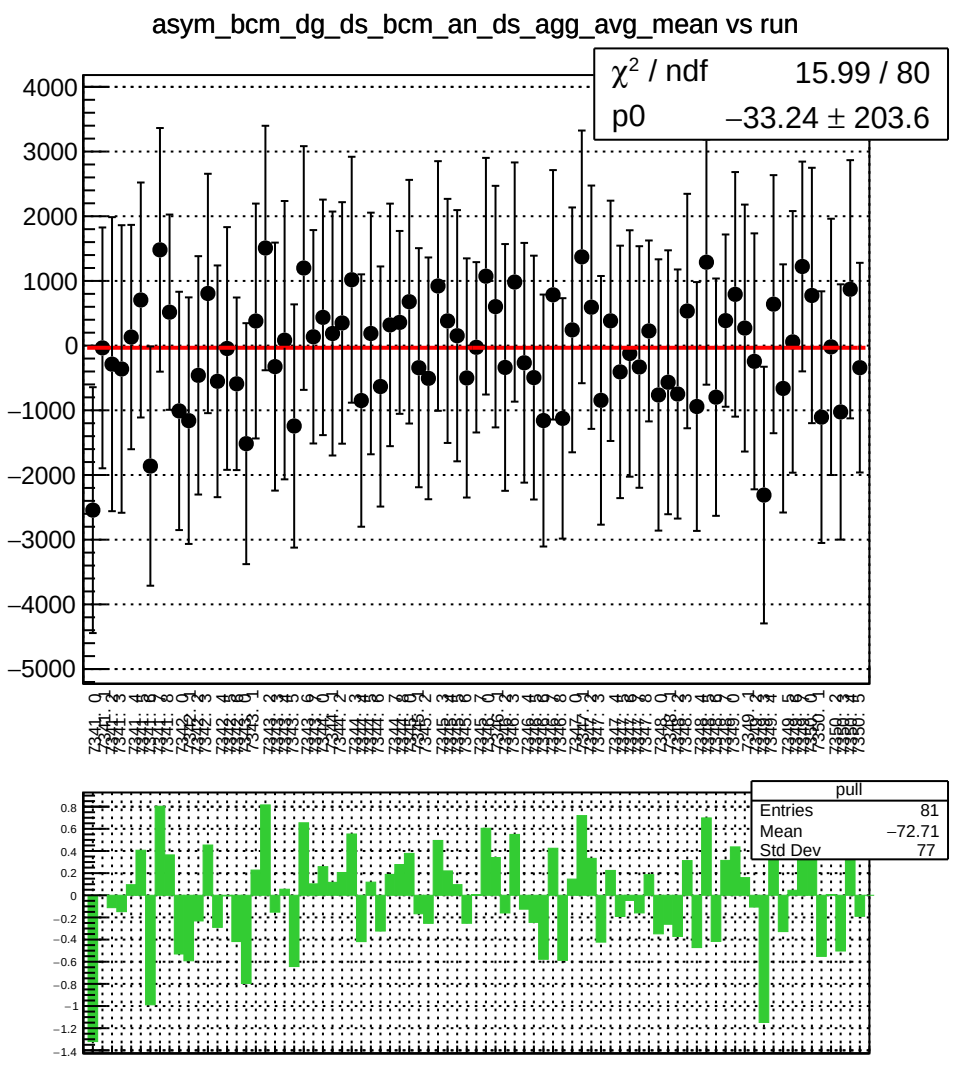

pull1D
Entries 81
Mean −0.005506
Std Dev 0.4539

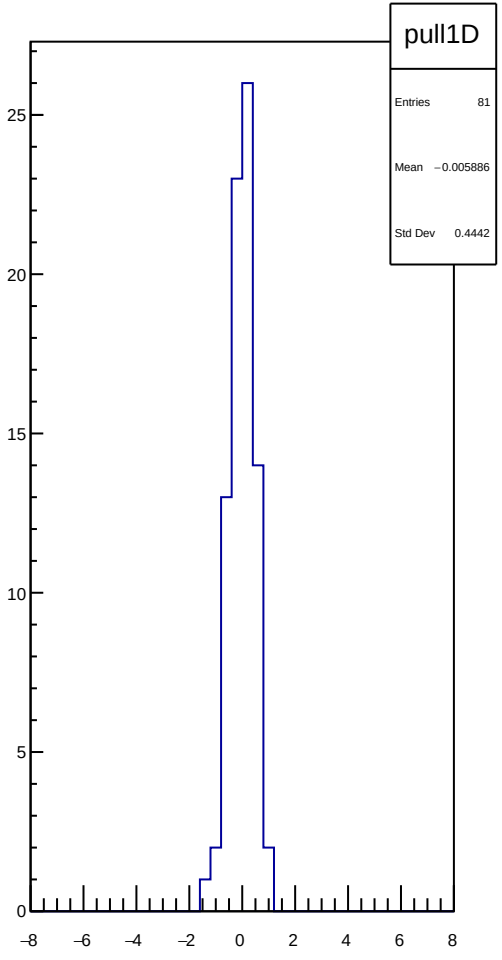

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3101 / 80
p0 179 ± 0.143
210
200
190
180
170
160

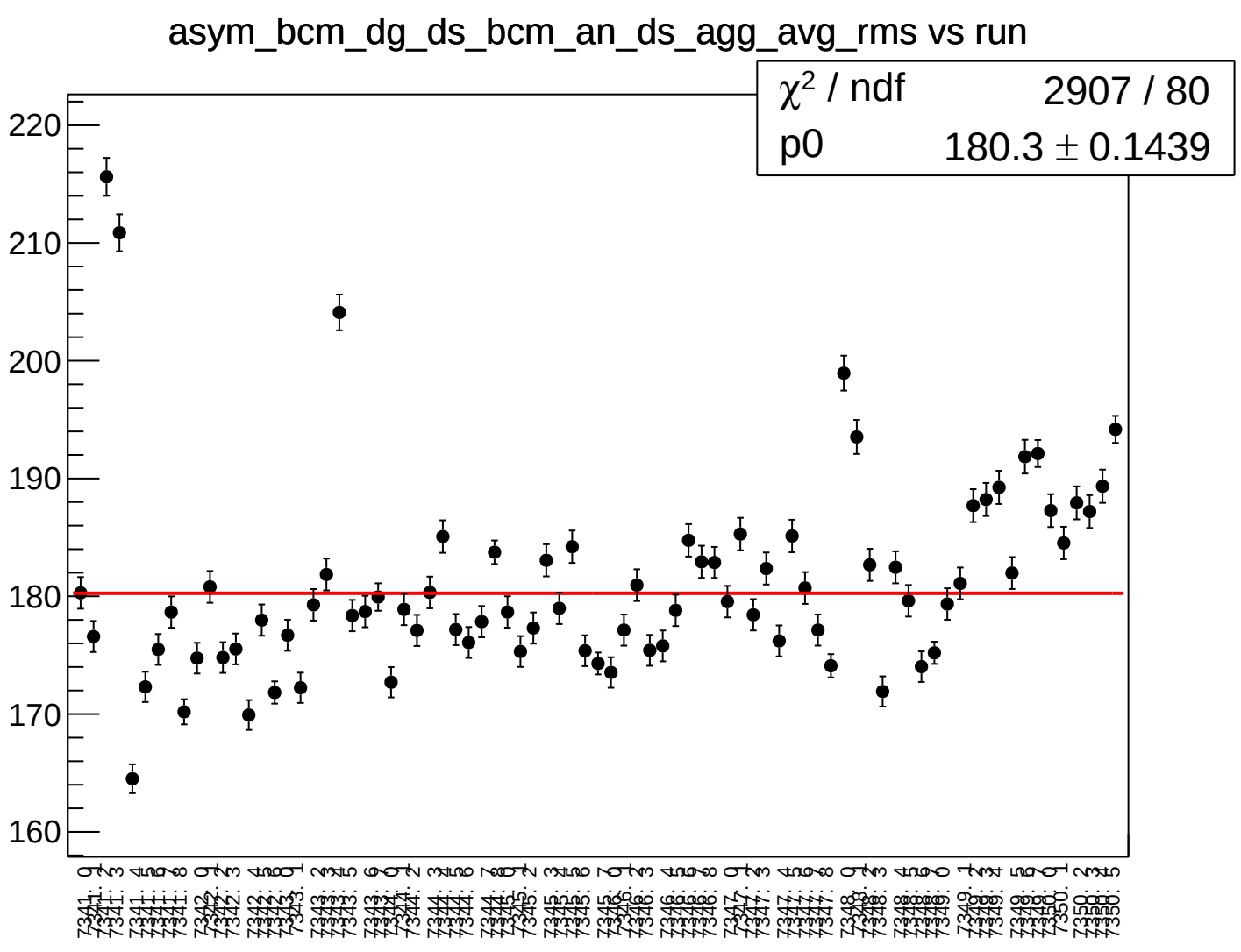

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 110.1 / 80
p0 2.571 ± 25.73
1000
500
0
−500
−1000
pull
Entries 81
Mean 325.6
Std Dev 321.7
2
1
0
−1
−2
−3

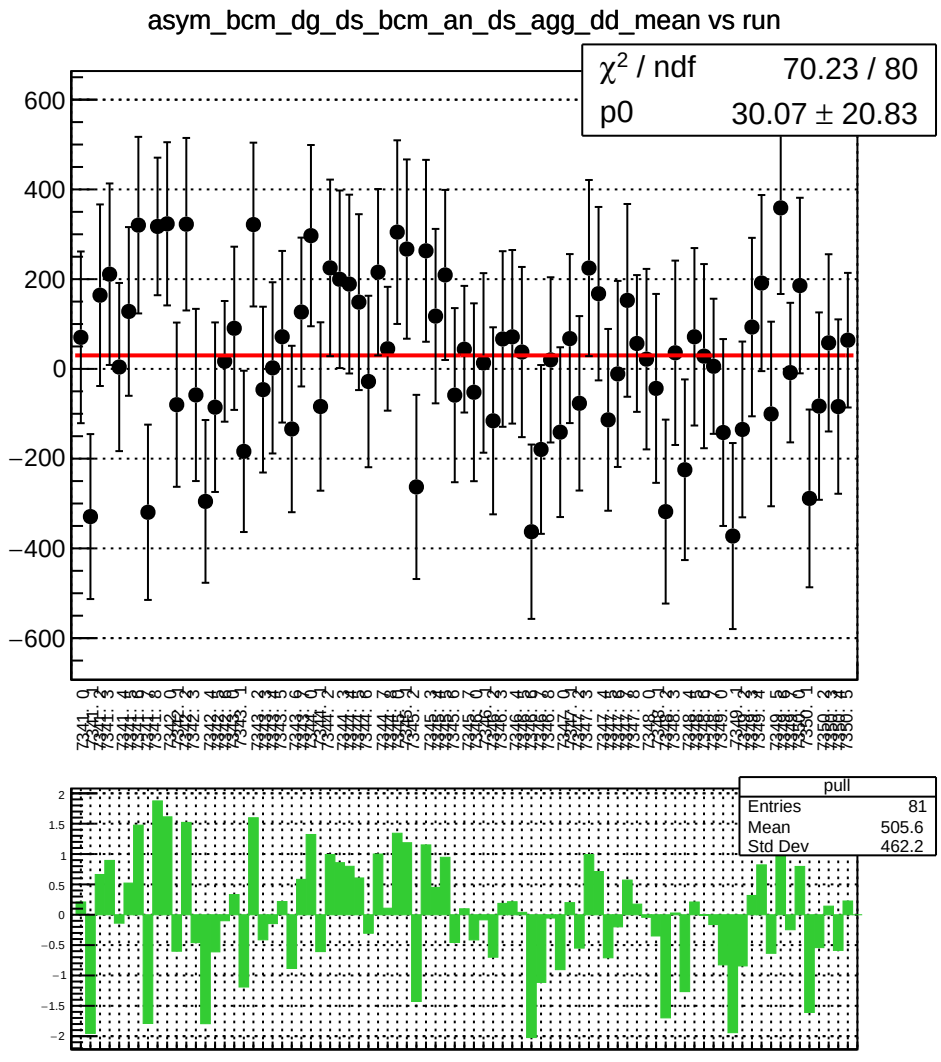

pull1D
Entries 81
Mean −0.004785
Std Dev 1.166
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

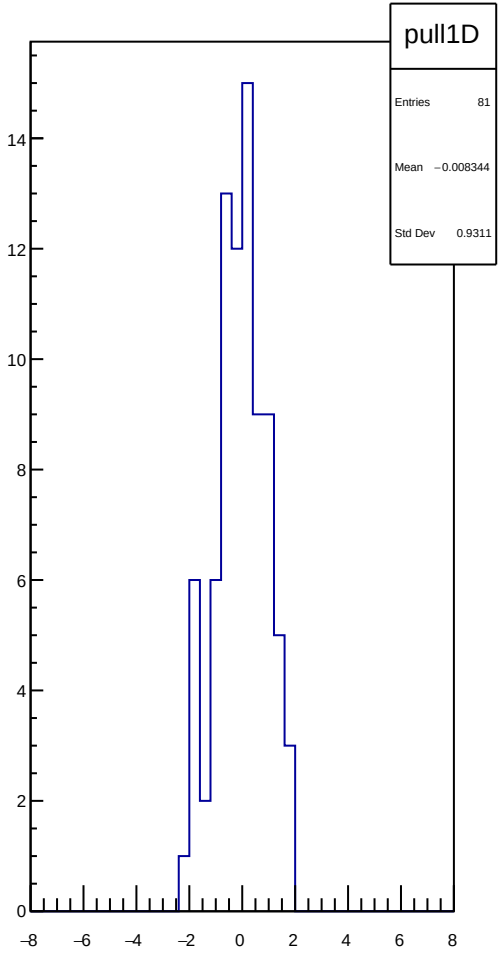

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 744.2 / 80
p0 22.8 ± 0.0182
24.5
24
23.5
23
22.5
22

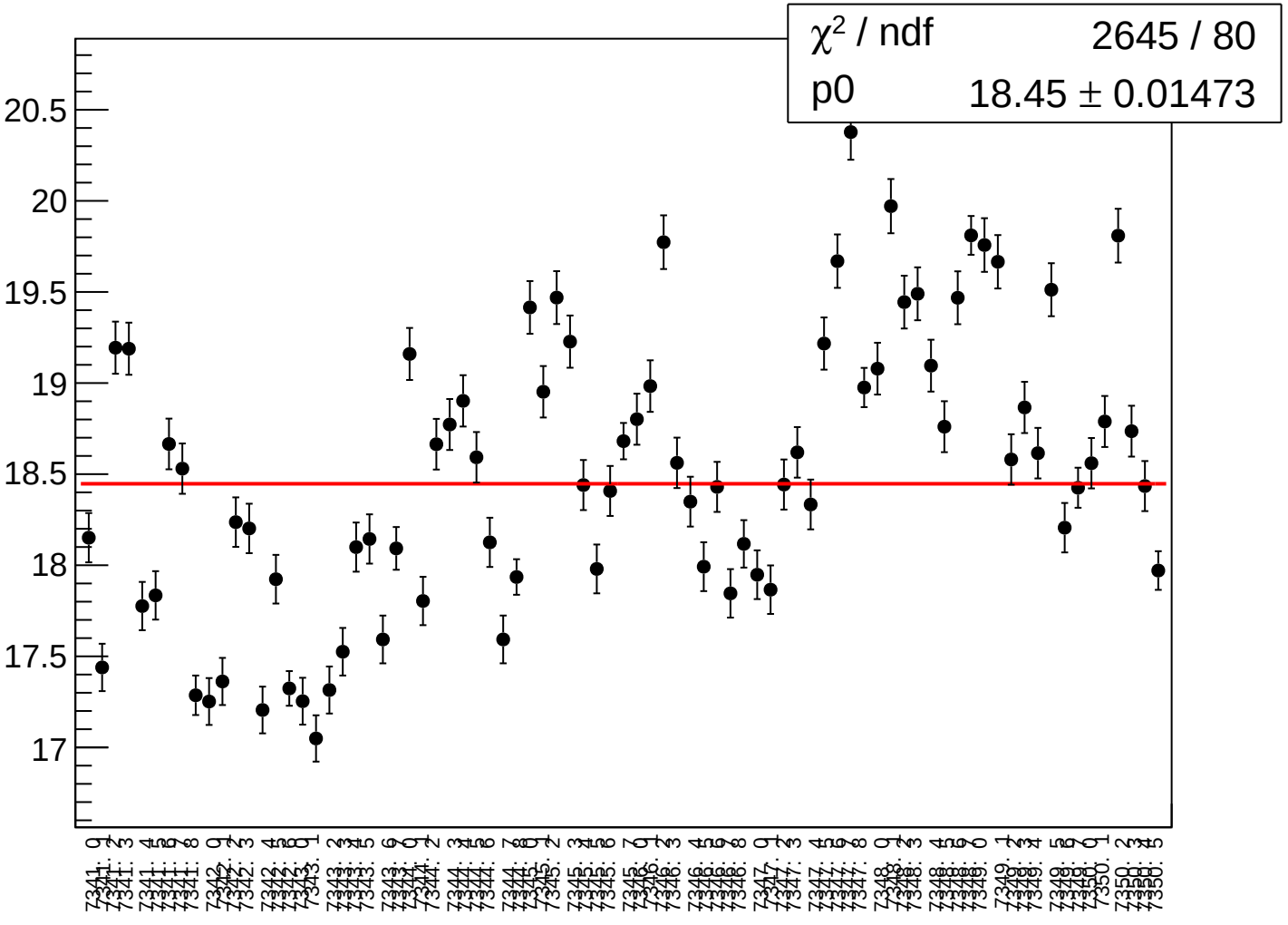

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.99 / 80
p0 −33.24 ± 203.6
pull
Entries 81
Mean −72.71
Std Dev 77

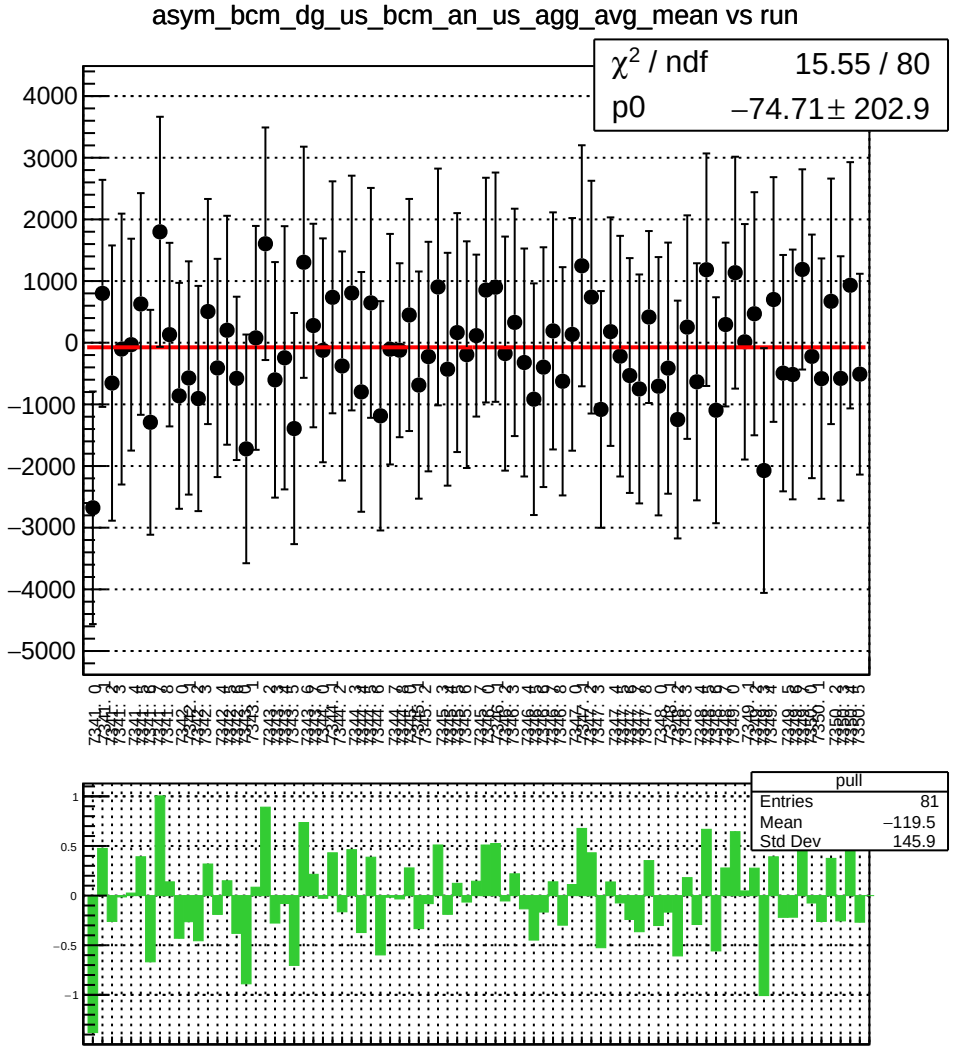

pull1D
Entries 81
Mean −0.005886
Std Dev 0.4442

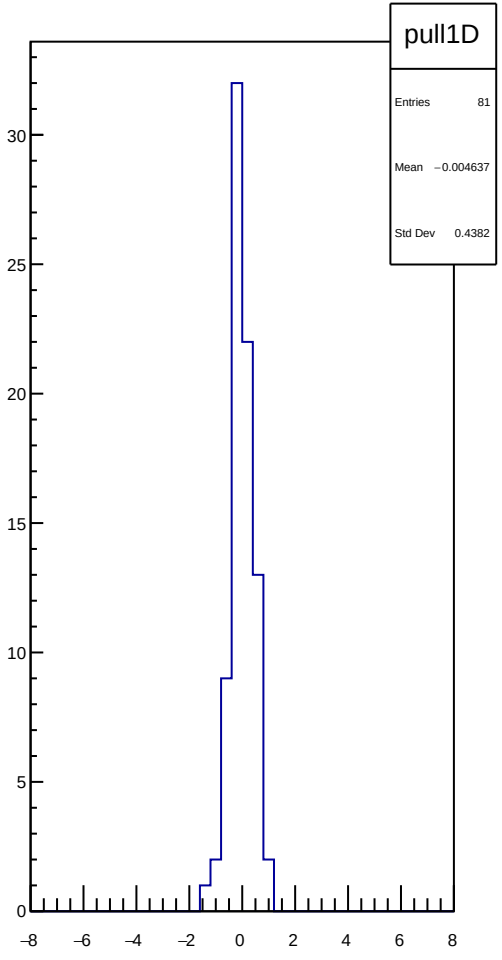

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2907 / 80
p0 180.3 ± 0.1439
220
210
200
190
180
170
160

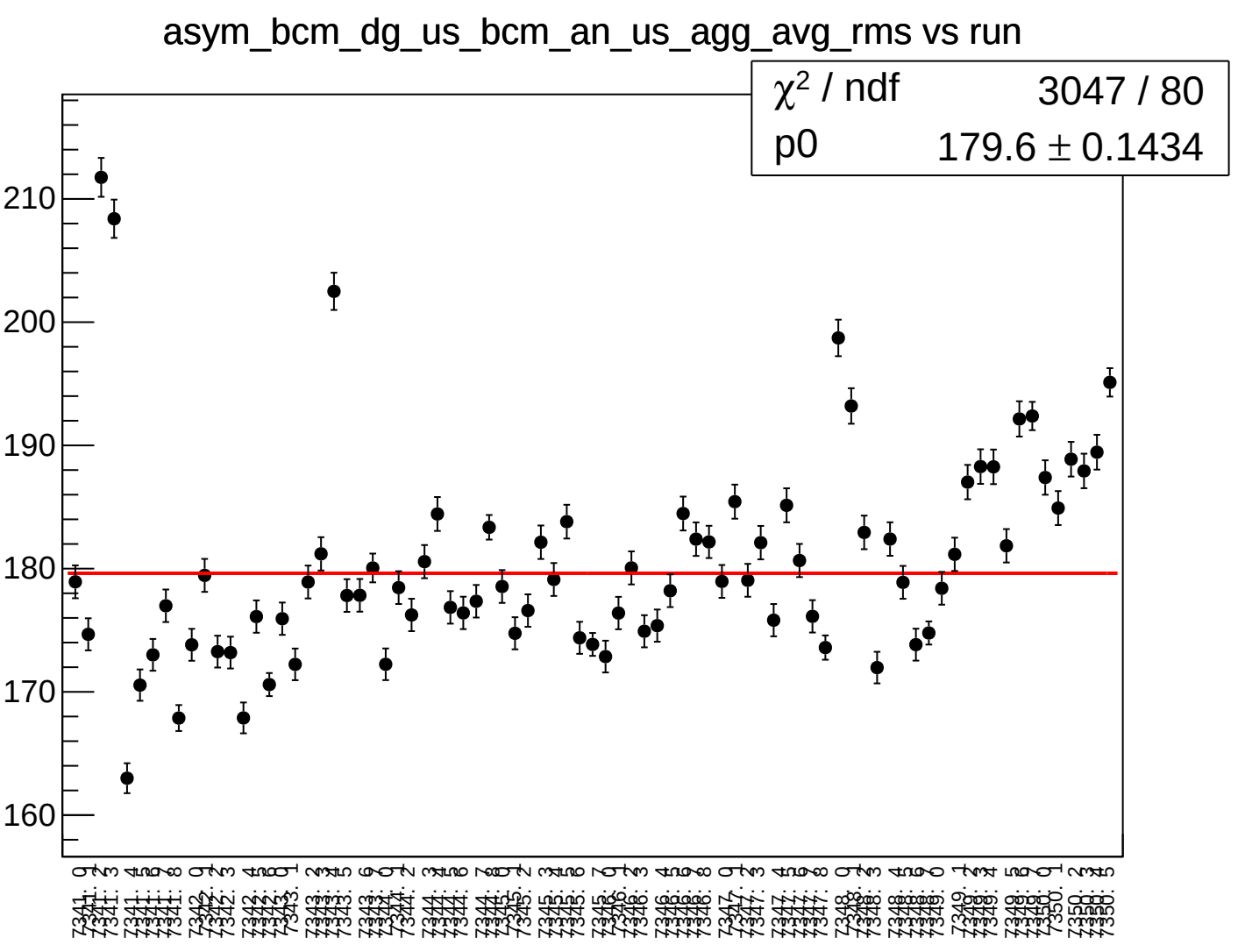

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.23 / 80
p0 30.07 ± 20.83
pull
Entries 81
Mean 505.6
Std Dev 462.2

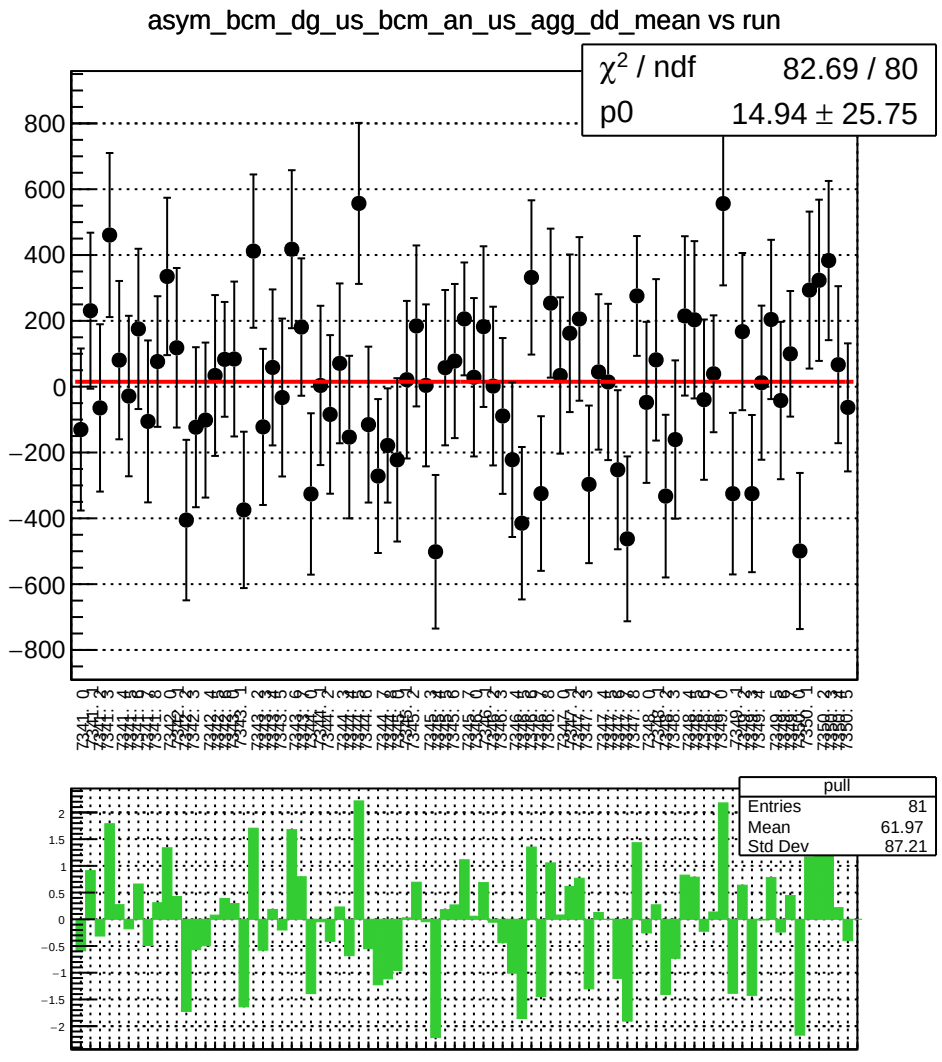

pull1D
Entries 81
Mean −0.008344
Std Dev 0.9311

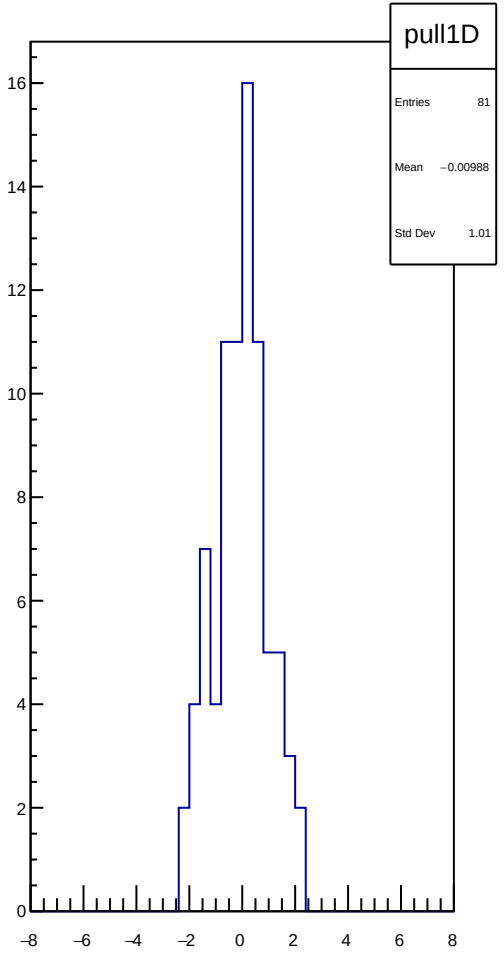

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2645 / 80
p0 18.45 ± 0.01473
20.5
20
19.5
19
18.5
18
17.5
17

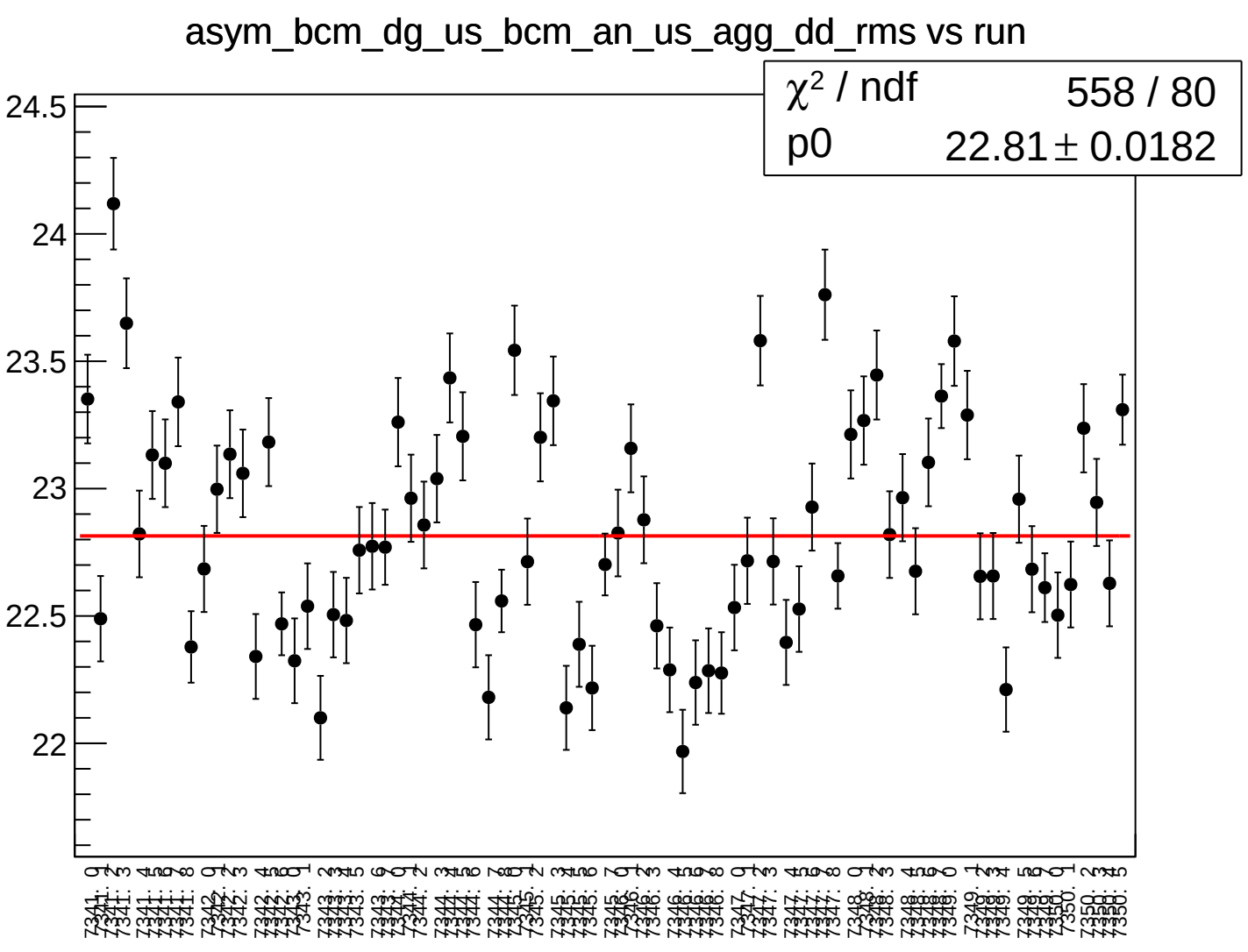

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.55 / 80
p0 −74.71 ± 202.9
pull
Entries 81
Mean −119.5
Std Dev 145.9

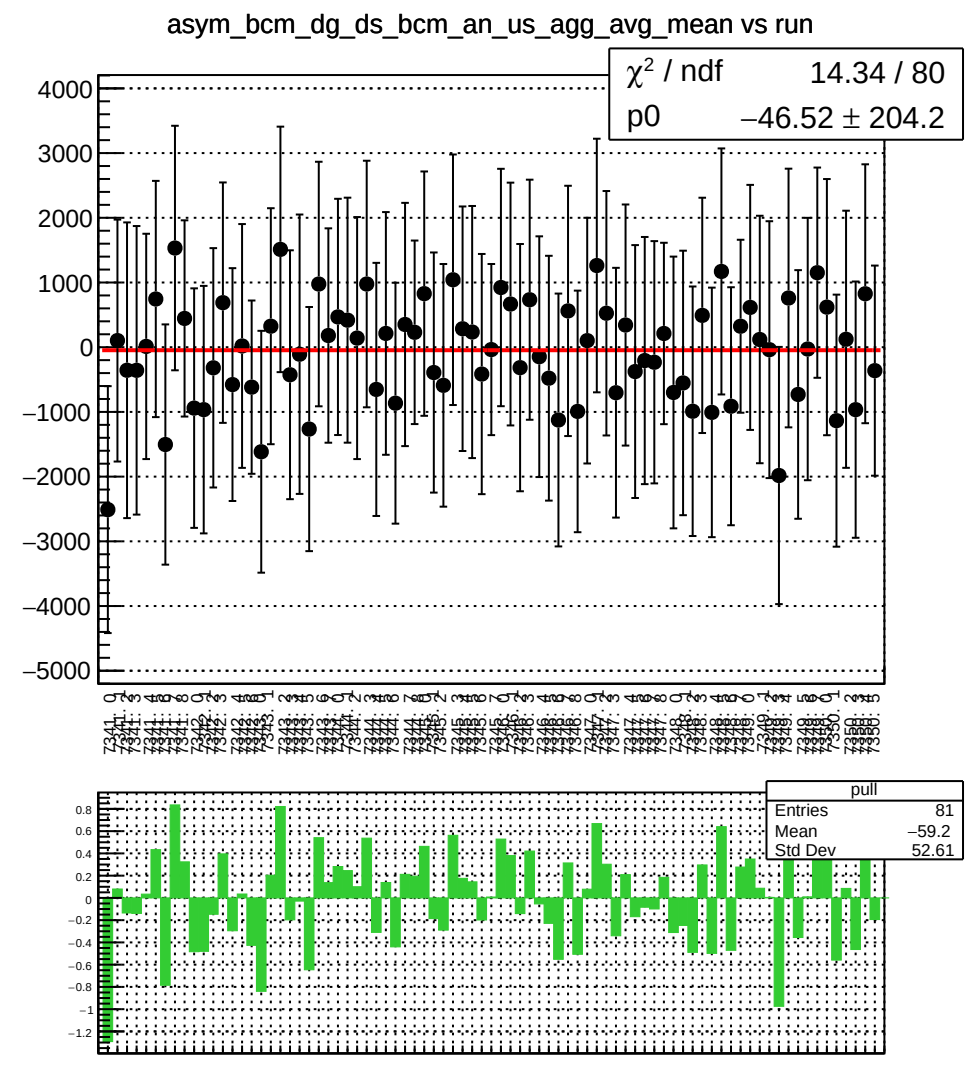

pull1D
Entries 81
Mean −0.004637
Std Dev 0.4382

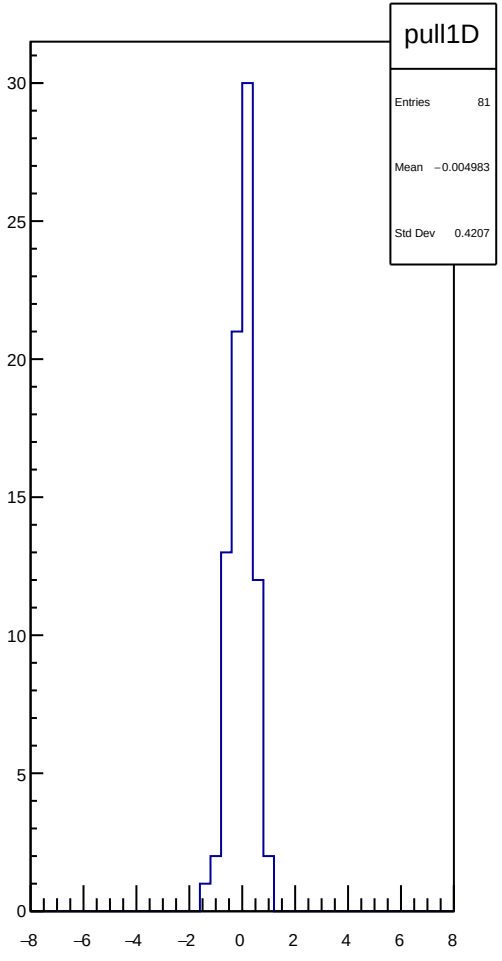

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3047 / 80
p0 179.6 ± 0.1434
210
200
190
180
170
160

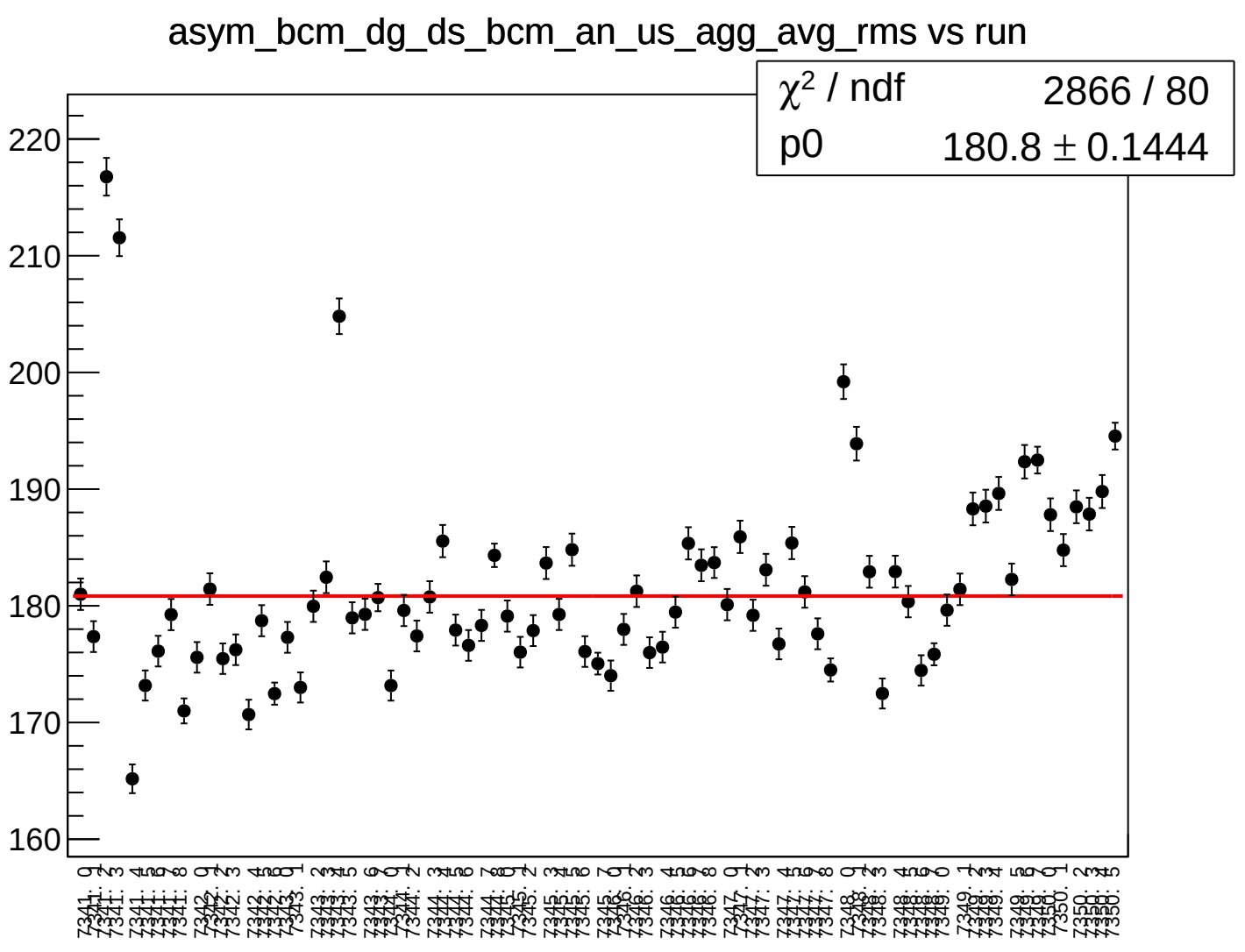

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.69 / 80
p0 14.94 ± 25.75
pull
Entries 81
Mean 61.97
Std Dev 87.21

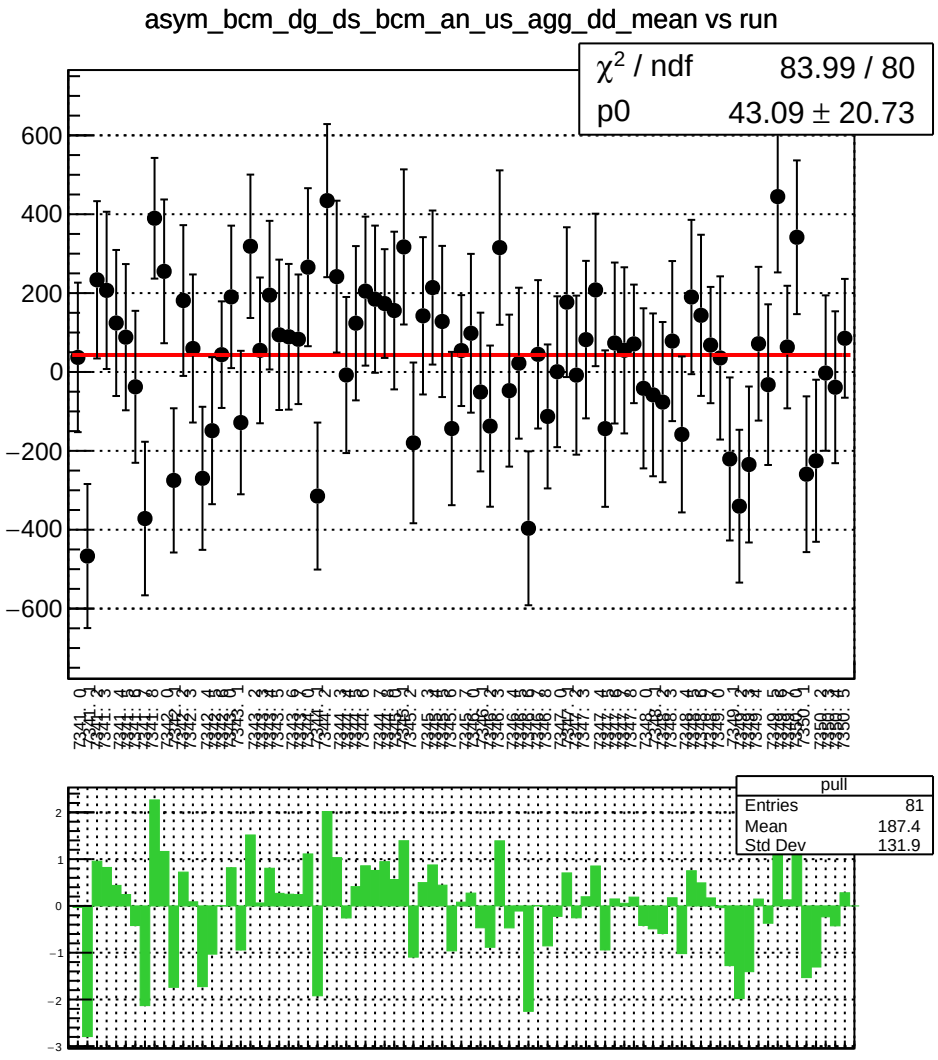

pull1D
Entries 81
Mean −0.00988
Std Dev 1.01

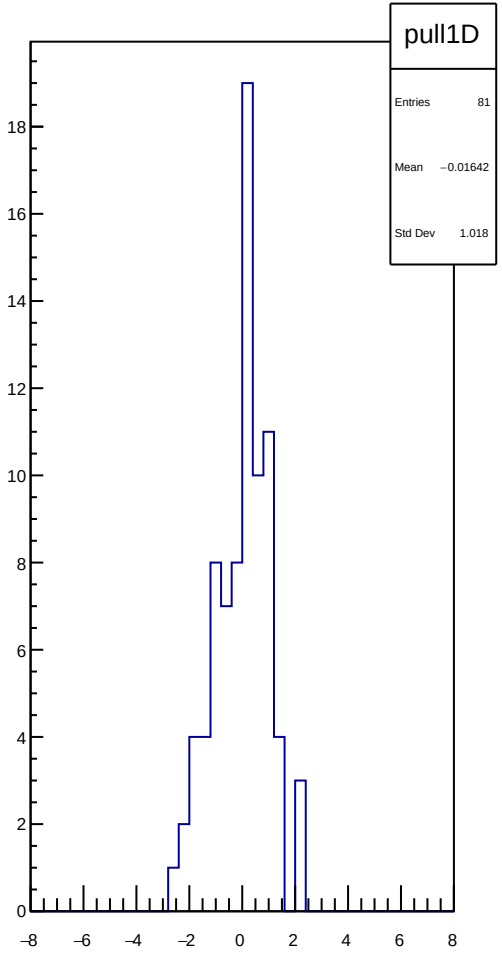

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 558 / 80
p0 22.81 ± 0.0182
24.5
24
23.5
23
22.5
22

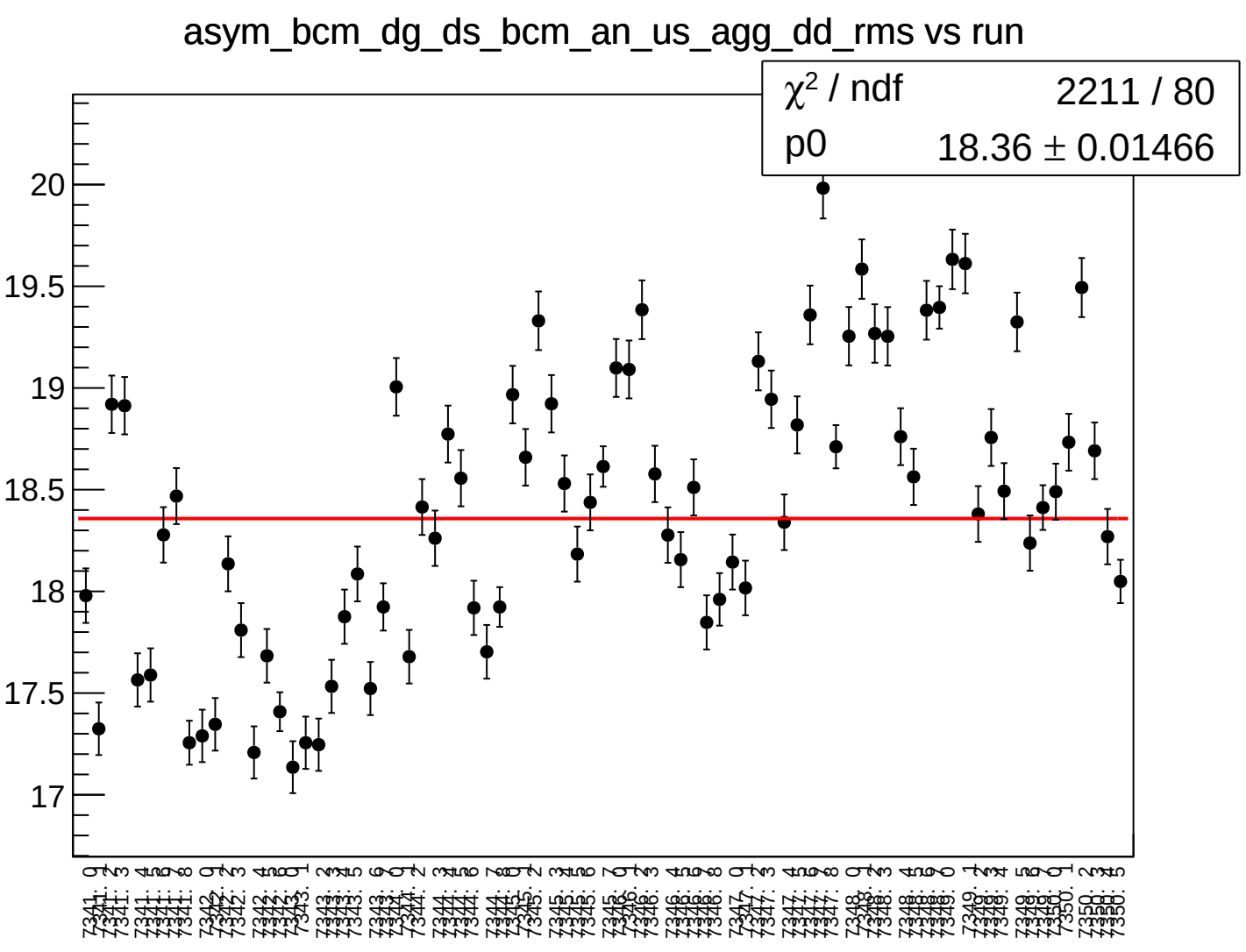

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.34 / 80
p0 −46.52 ± 204.2
pull
Entries 81
Mean −59.2
Std Dev 52.61

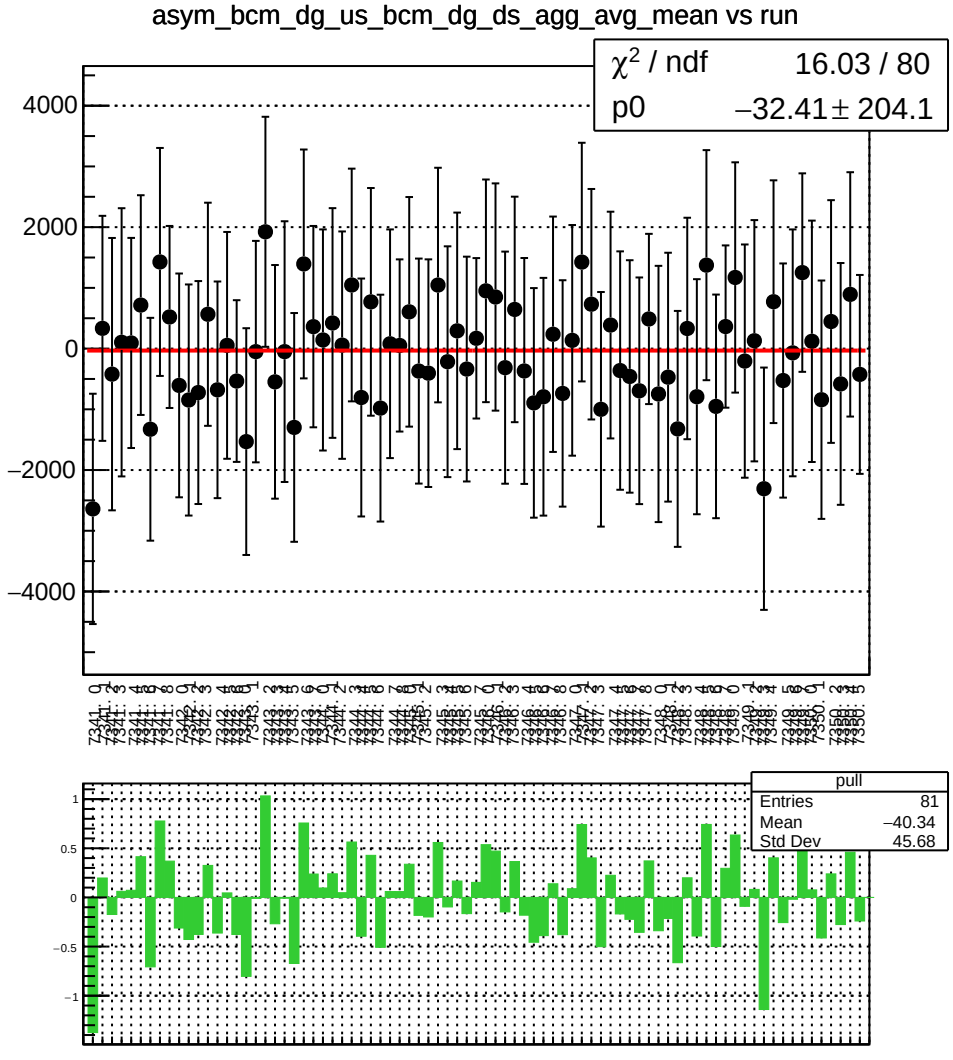

pull1D
Entries 81
Mean −0.004983
Std Dev 0.4207

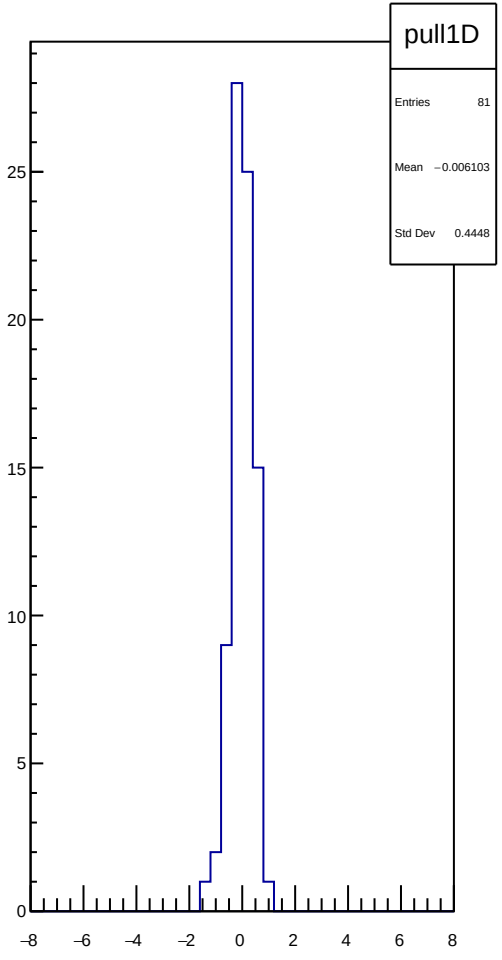

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2866 / 80
p0 180.8 ± 0.1444
220
210
200
190
180
170
160

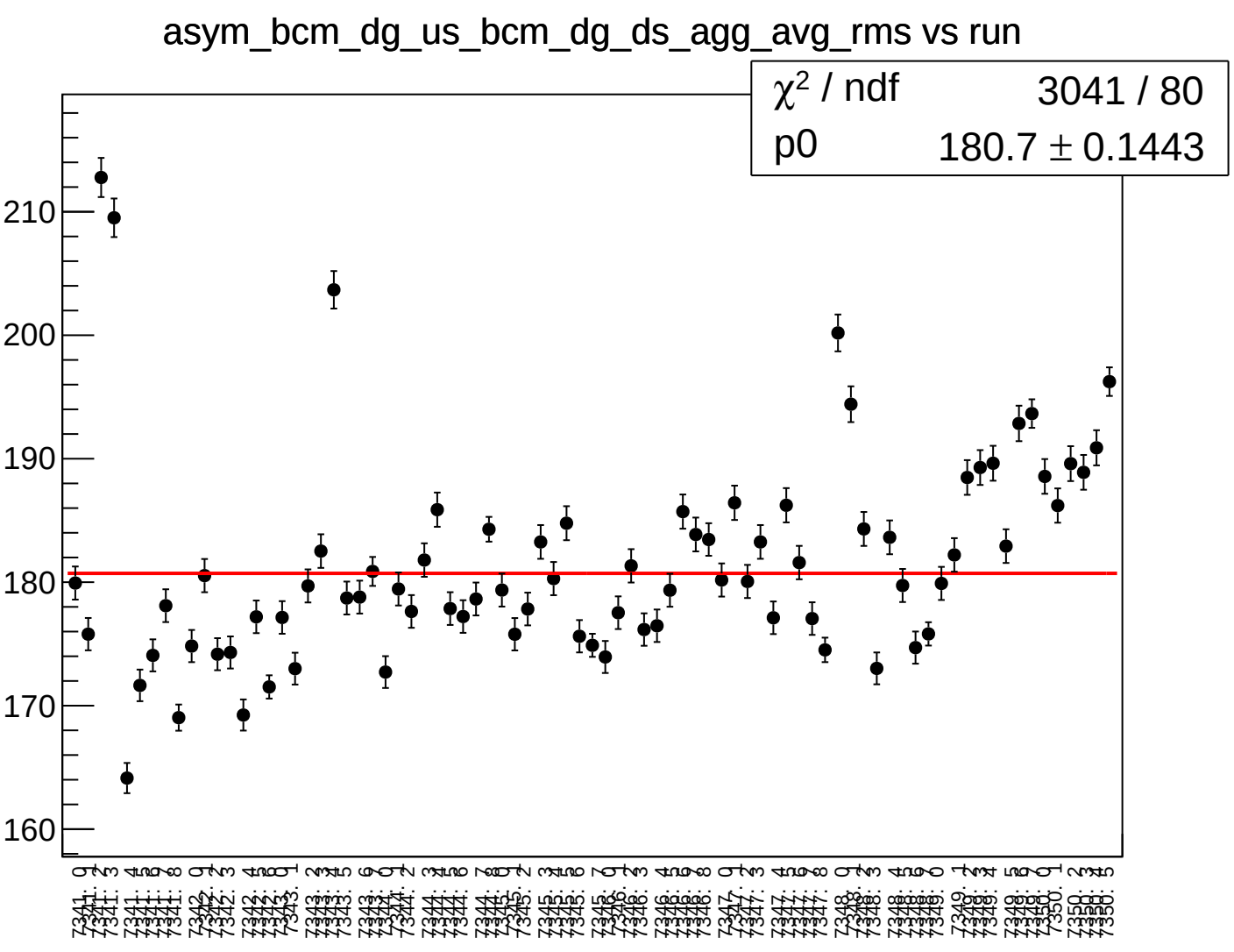

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 83.99 / 80
p0 43.09 ± 20.73
pull
Entries 81
Mean 187.4
Std Dev 131.9

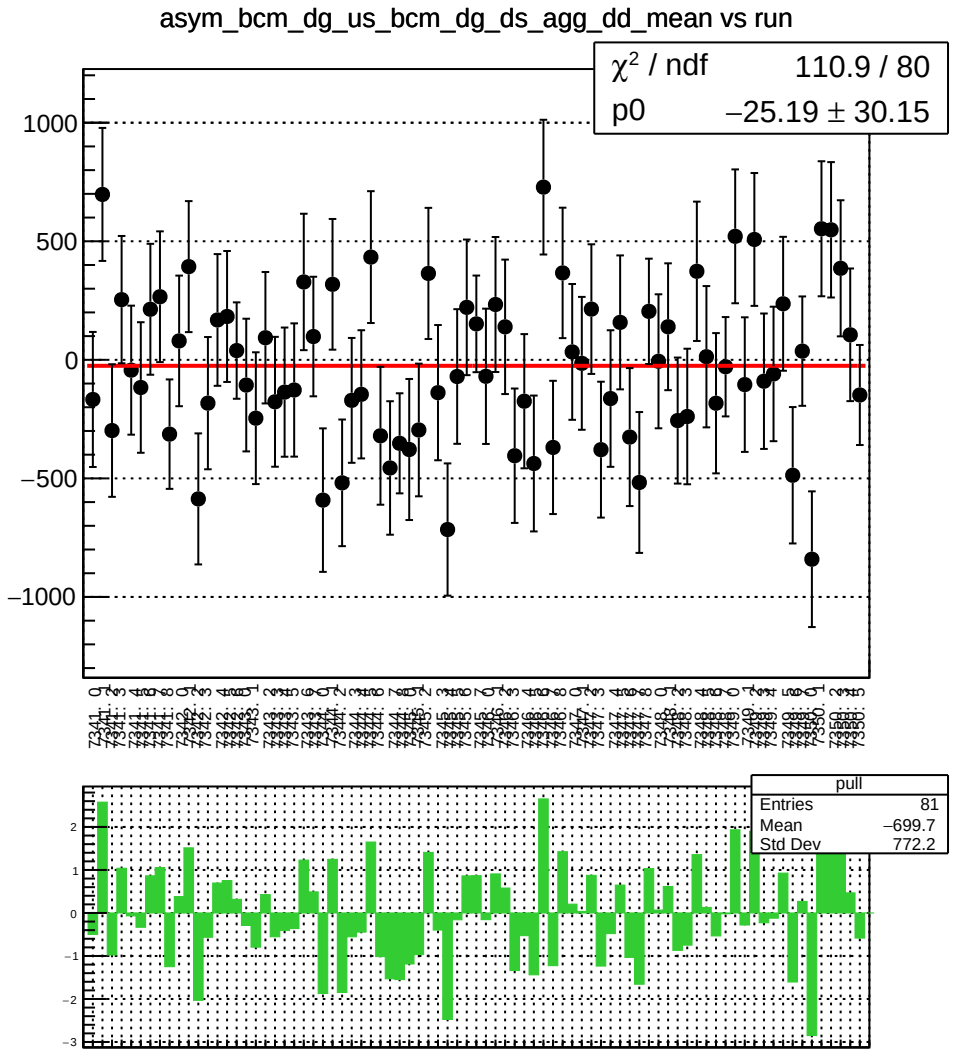

pull1D
Entries 81
Mean −0.01642
Std Dev 1.018

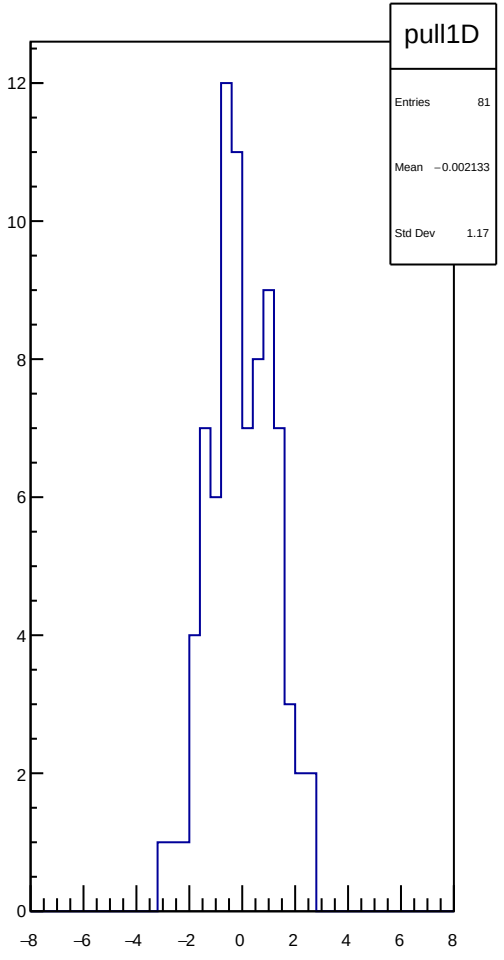

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2211 / 80
p0 18.36 ± 0.01466
20
19.5
19
18.5
18
17.5
17

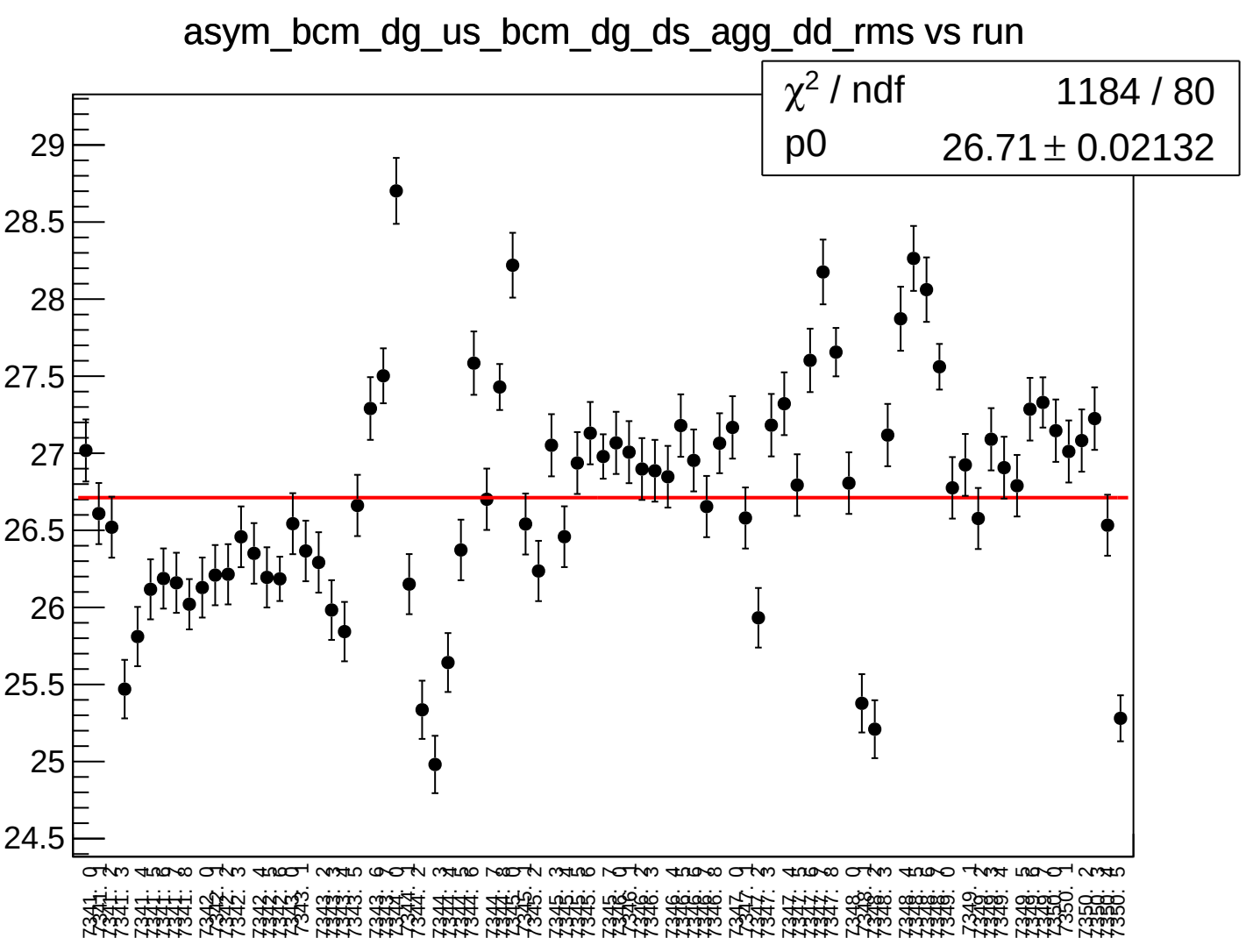

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.03 / 80
p0 −32.41 ± 204.1
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −40.34
Std Dev 45.68
1
0.5
0
−0.5
−1

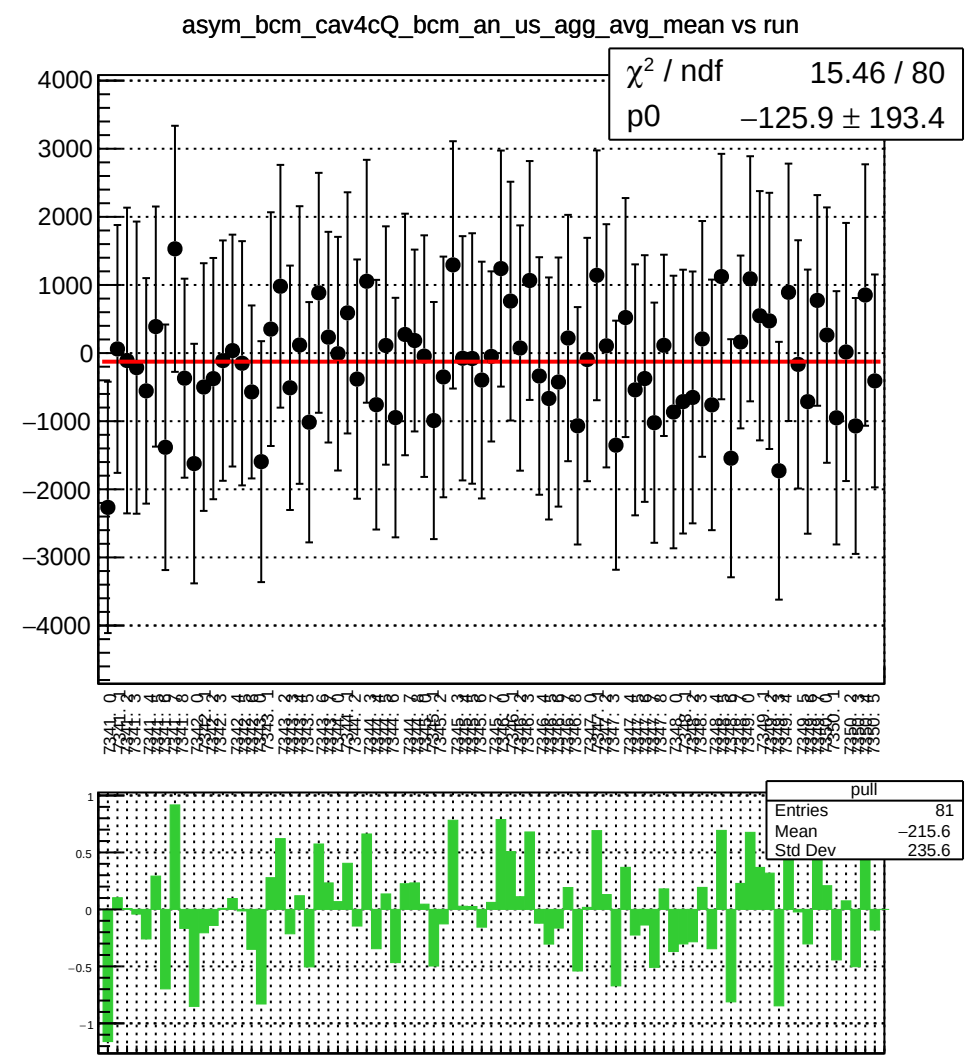

pull1D
Entries 81
Mean −0.006103
Std Dev 0.4448
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

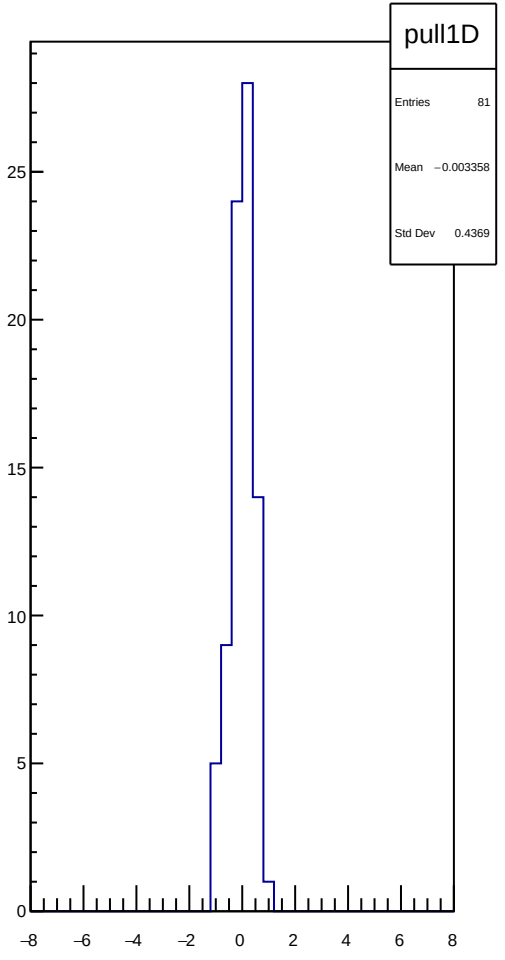

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3041 / 80
p0 180.7 ± 0.1443
210
200
190
180
170
160

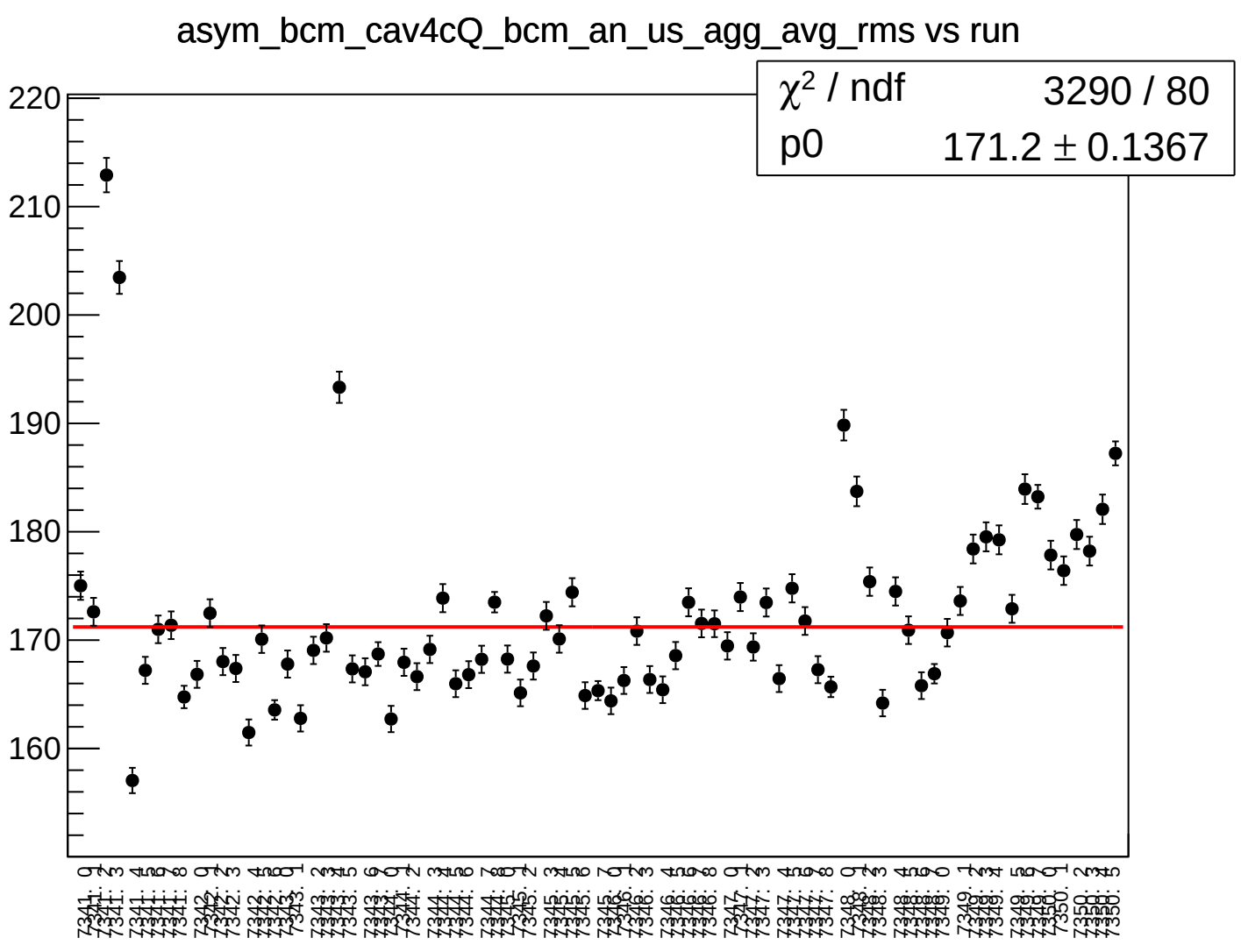

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 110.9 / 80
p0 −25.19 ± 30.15
1000
500
0
−500
−1000
pull
Entries 81
Mean −699.7
Std Dev 772.2
2
1
0
−1
−2
−3

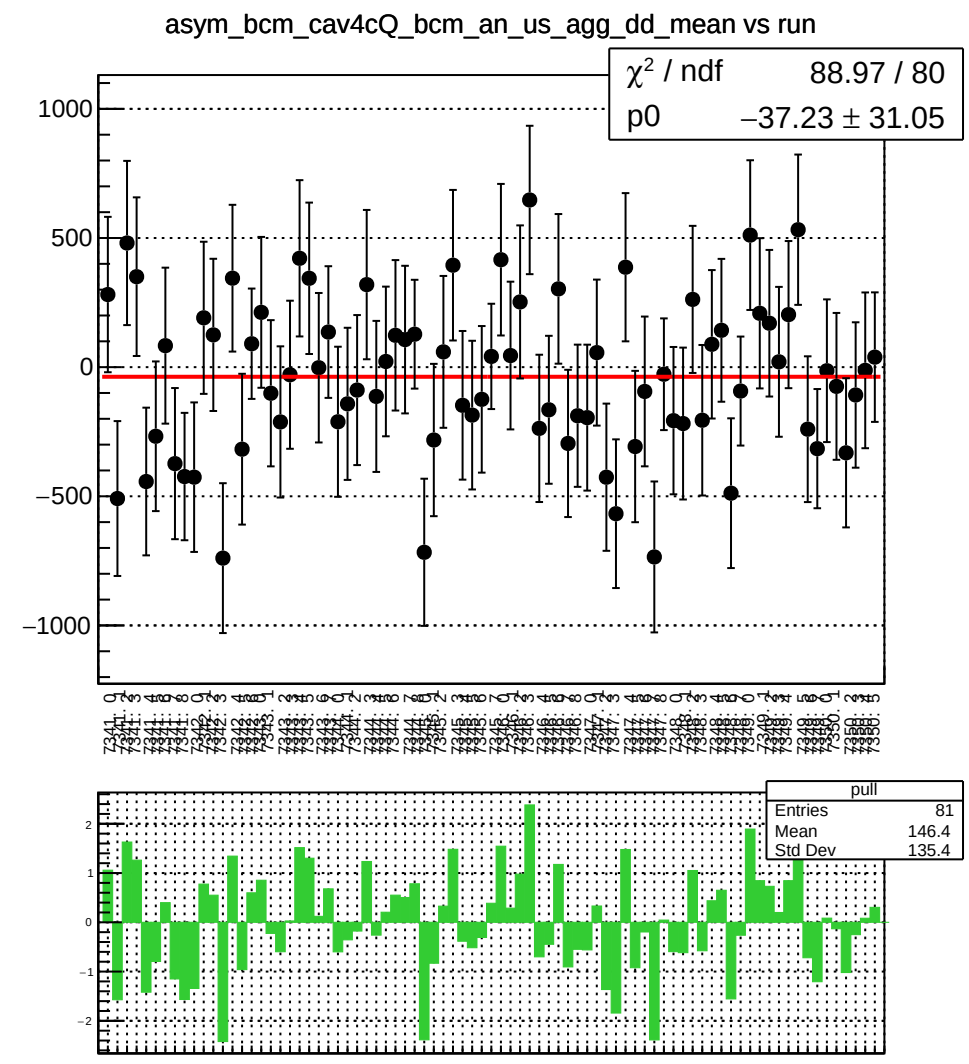

pull1D
Entries 81
Mean −0.002133
Std Dev 1.17
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

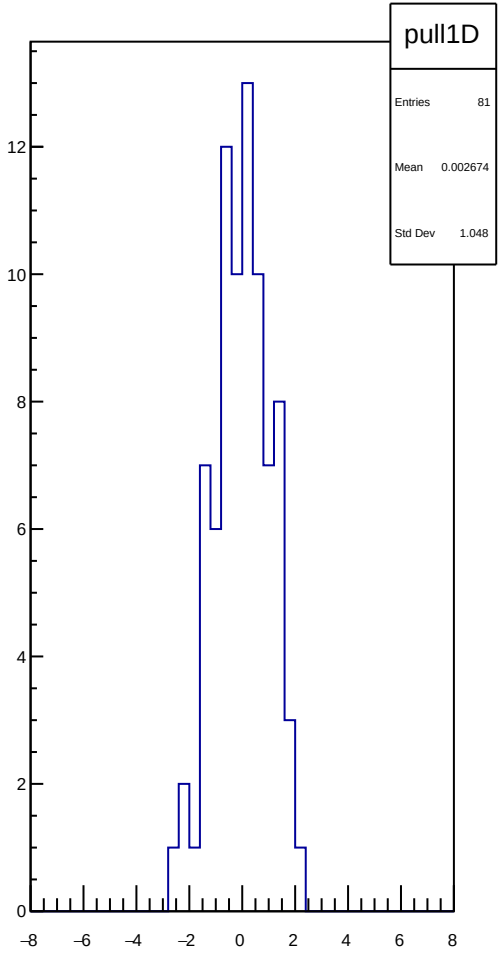

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1184 / 80
p0 26.71 ± 0.02132
29
28.5
28
27.5
27
26.5
26
25.5
25
24.5

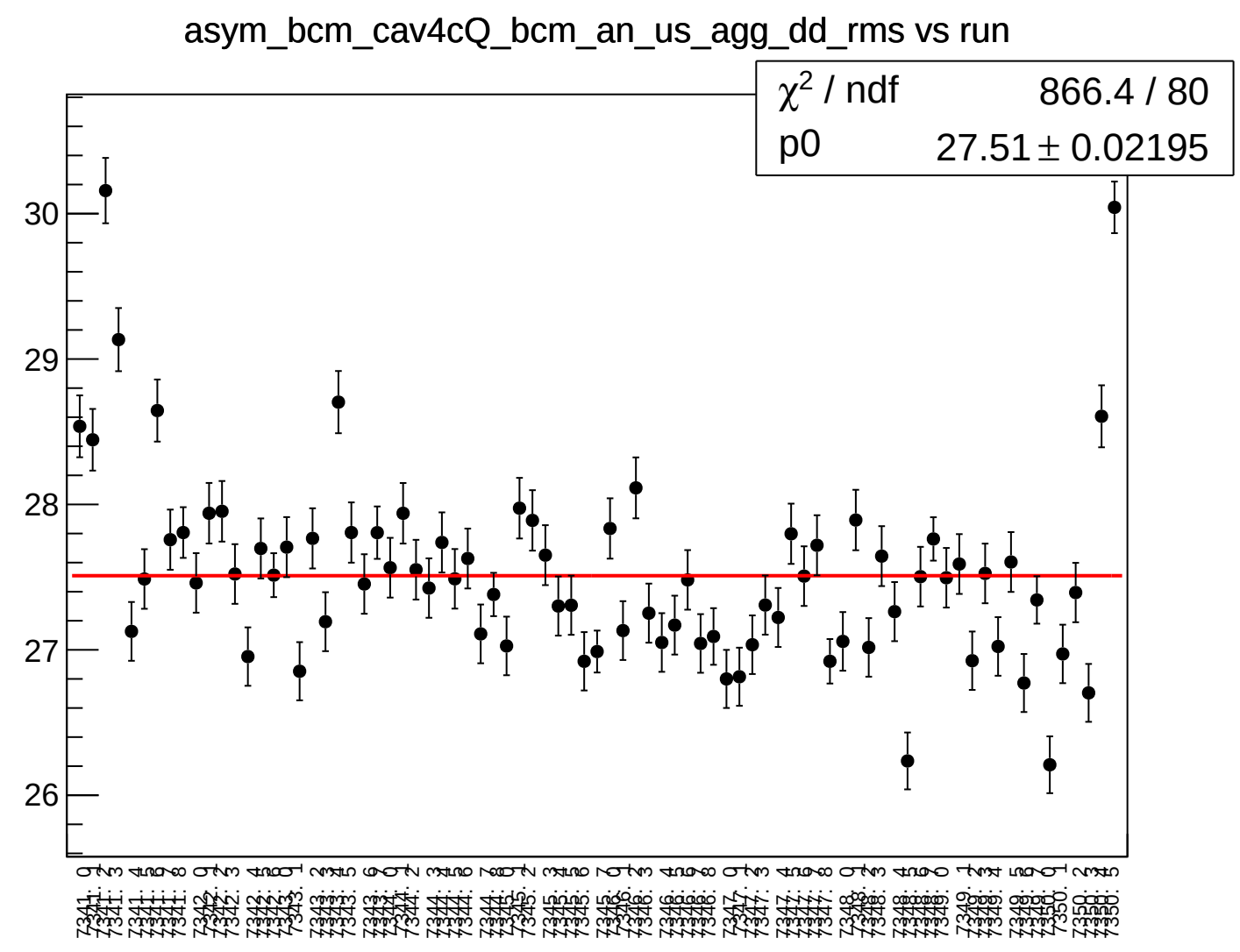

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.46 / 80
p0 −125.9 ± 193.4
pull
Entries 81
Mean −215.6
Std Dev 235.6

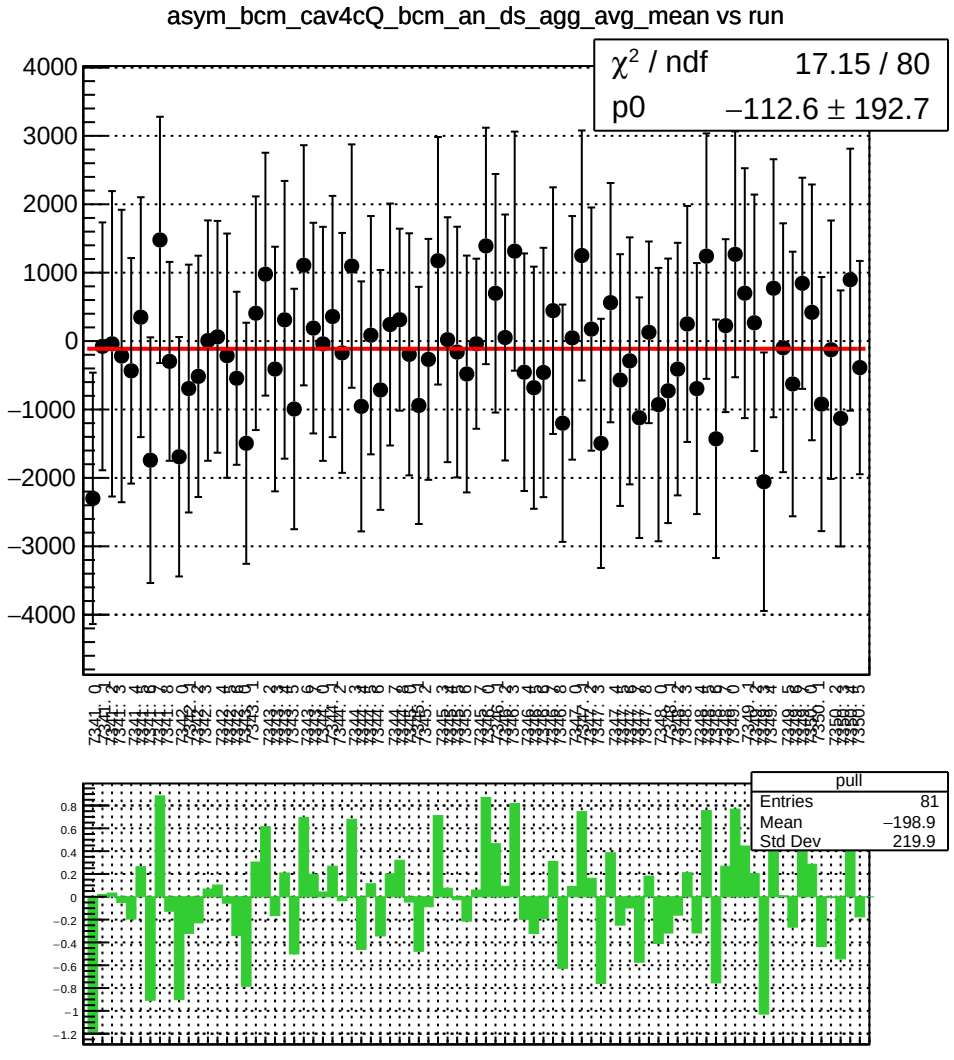

pull1D
Entries 81
Mean −0.003358
Std Dev 0.4369

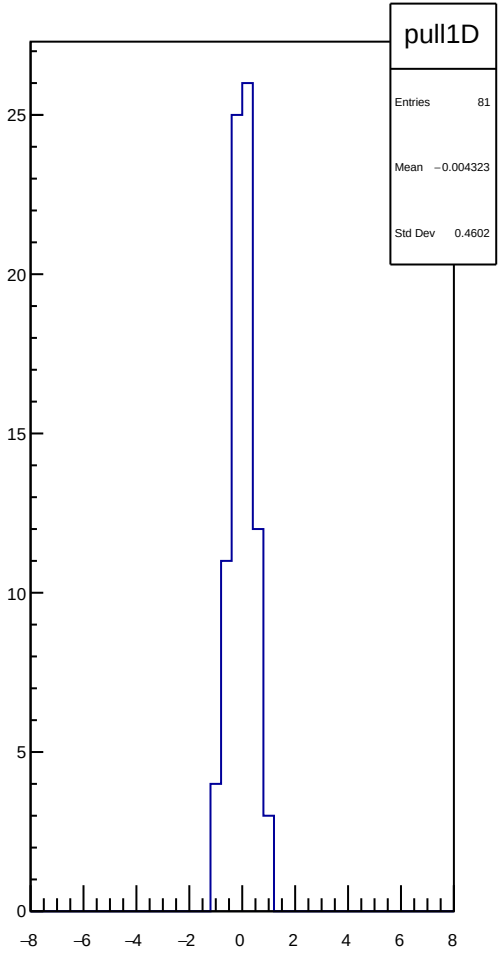

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3290 / 80
p0 171.2 ± 0.1367
220
210
200
190
180
170
160

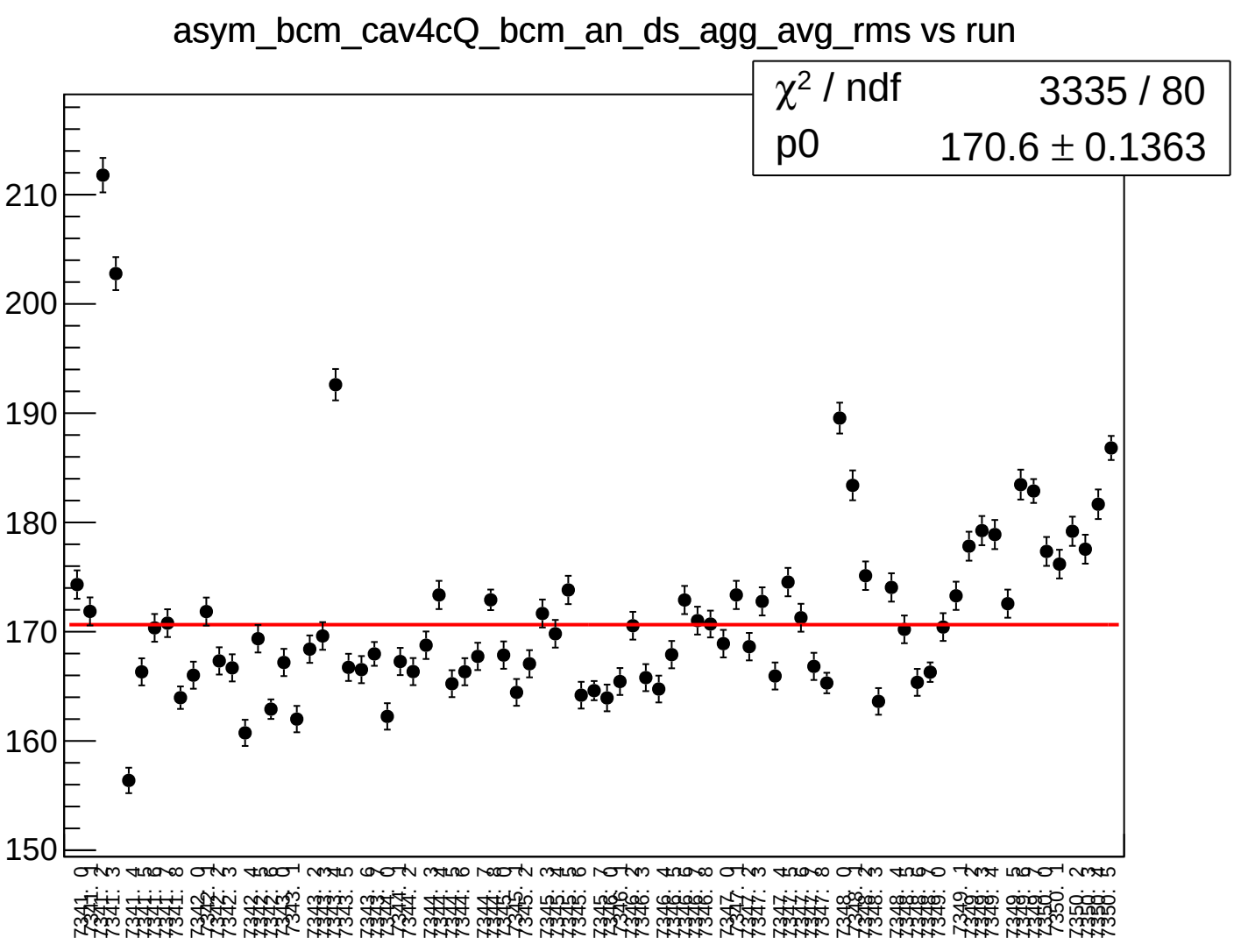

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 88.97 / 80
p0 −37.23 ± 31.05
1000
500
0
−500
−1000
pull
Entries 81
Mean 146.4
Std Dev 135.4
2
1
0
−1
−2

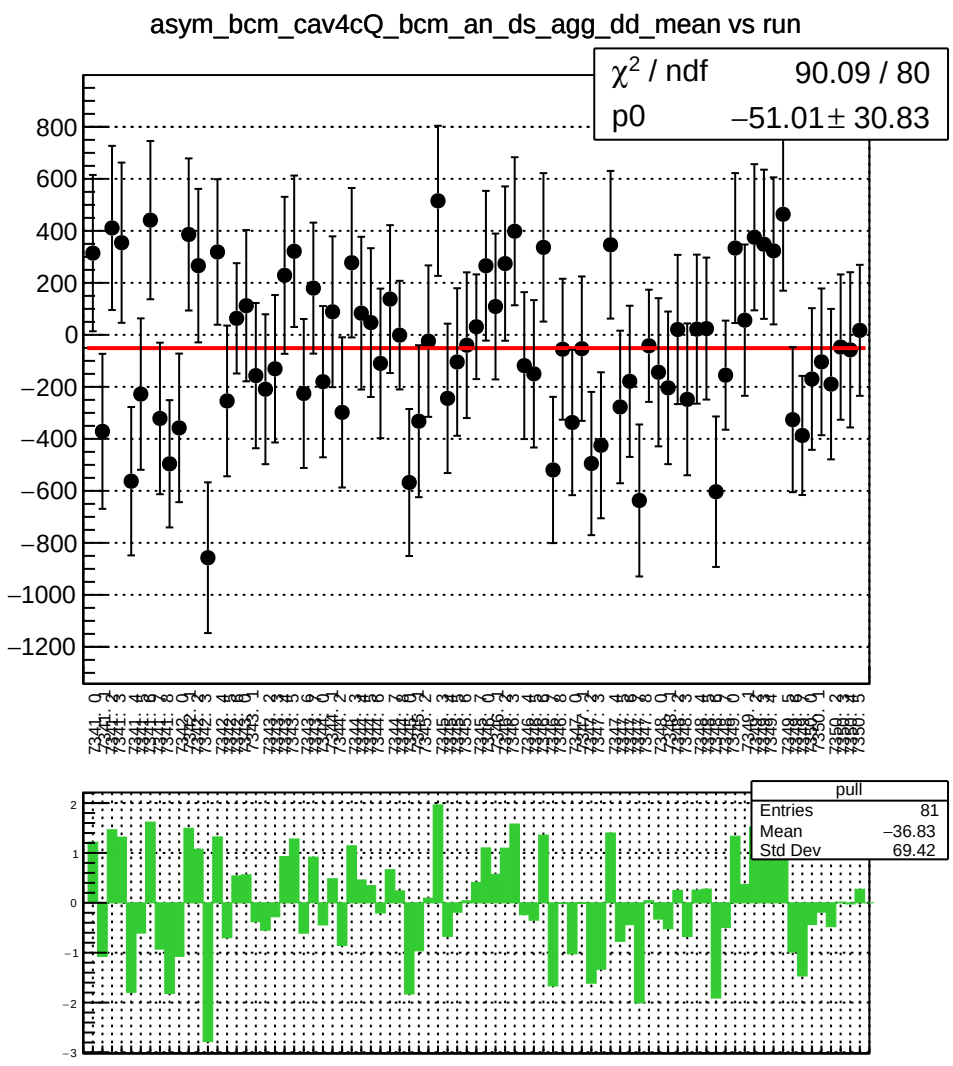

pull1D
Entries 81
Mean 0.002674
Std Dev 1.048
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

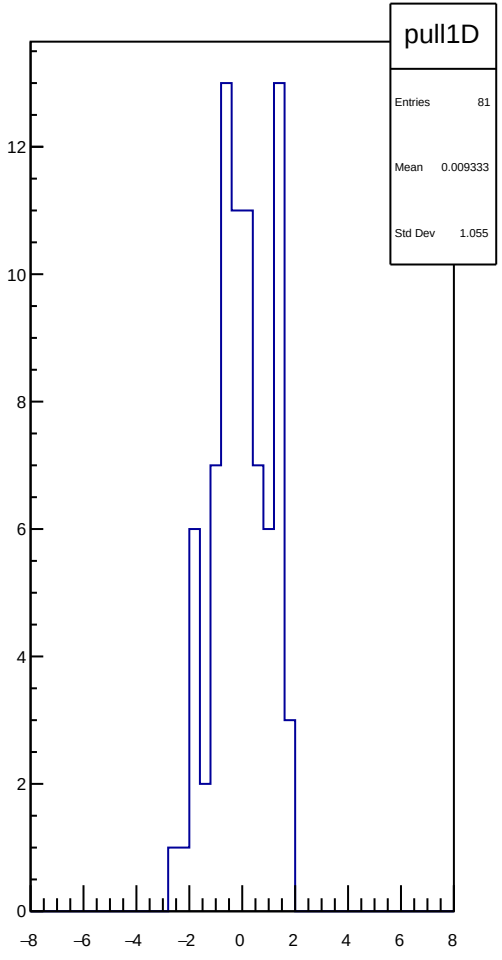

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ^2 / ndf 866.4 / 80
p0 27.51 ± 0.02195
30
29
28
27
26

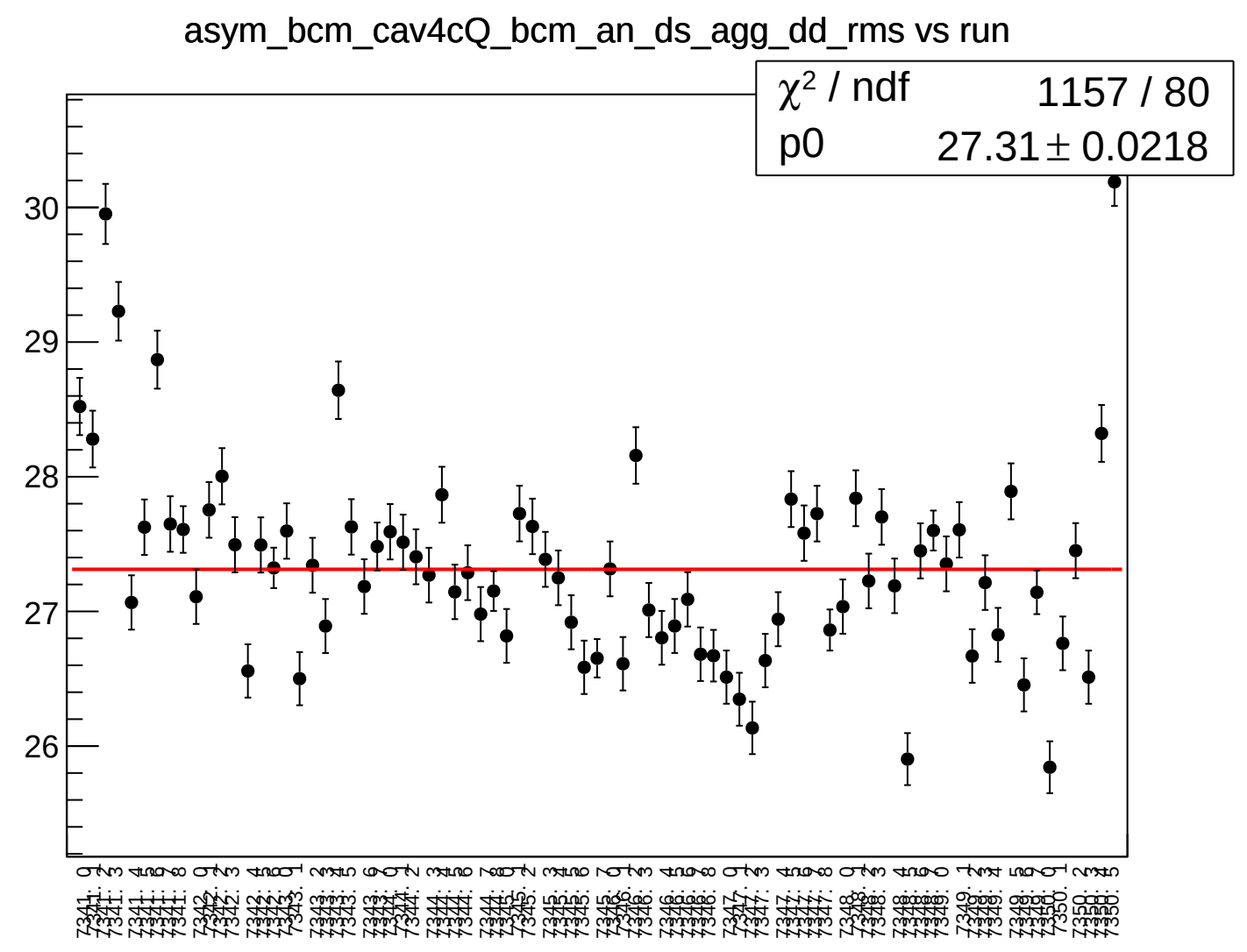

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.15 / 80
p0 −112.6 ± 192.7
pull
Entries 81
Mean −198.9
Std Dev 219.9

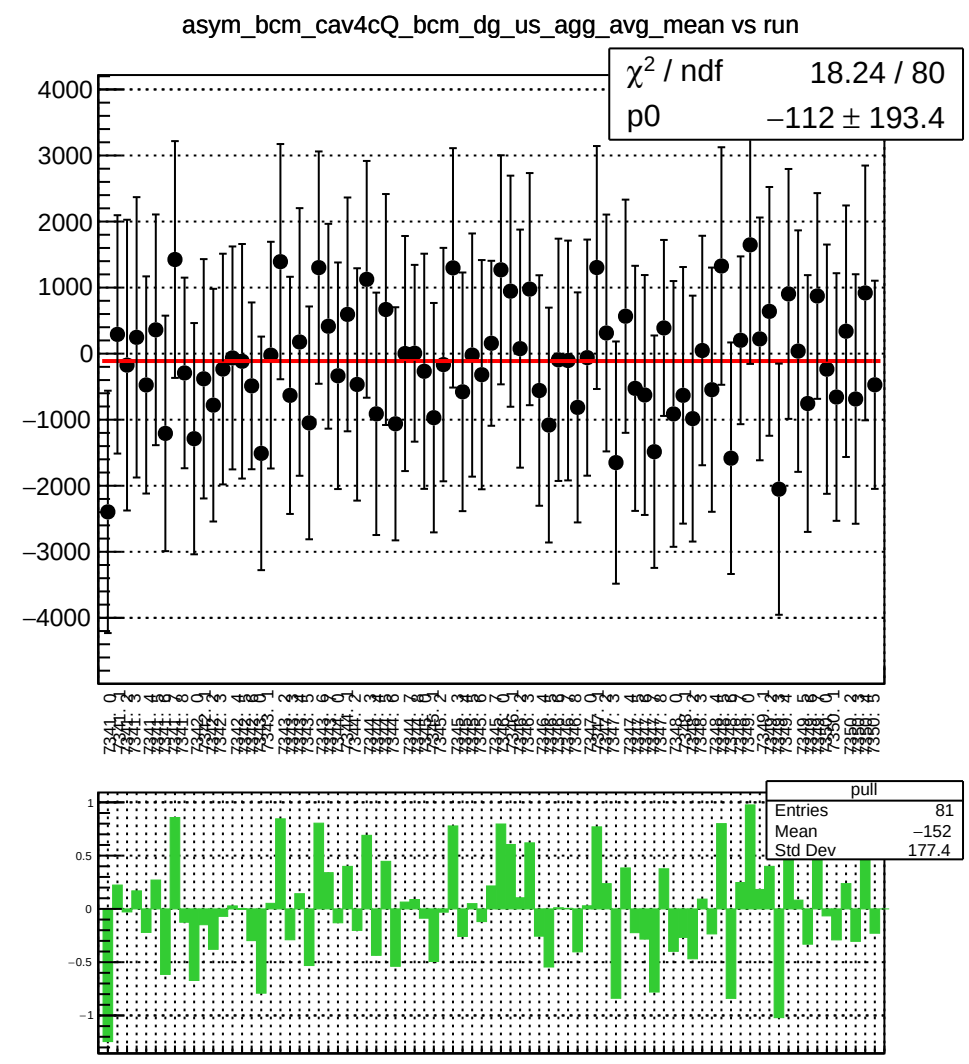

pull1D
Entries 81
Mean −0.004323
Std Dev 0.4602

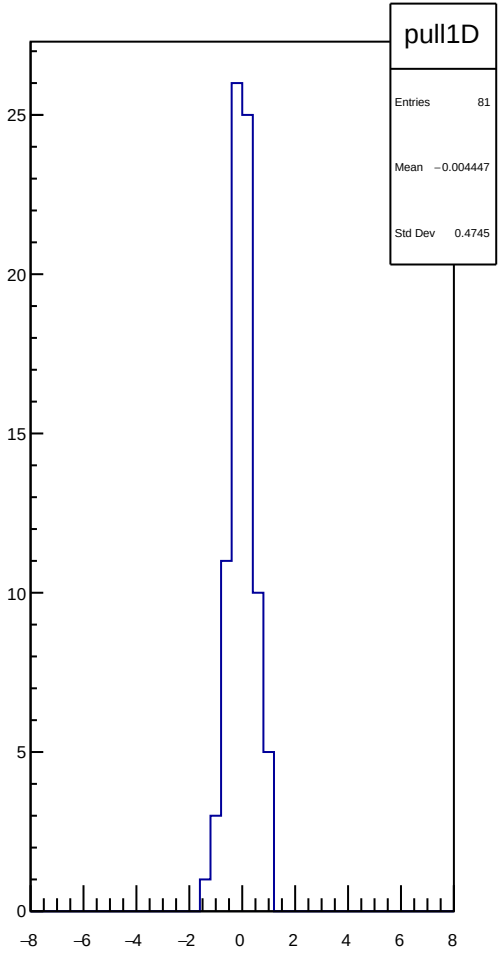

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3335 / 80
p0 170.6 ± 0.1363
210
200
190
180
170
160
150

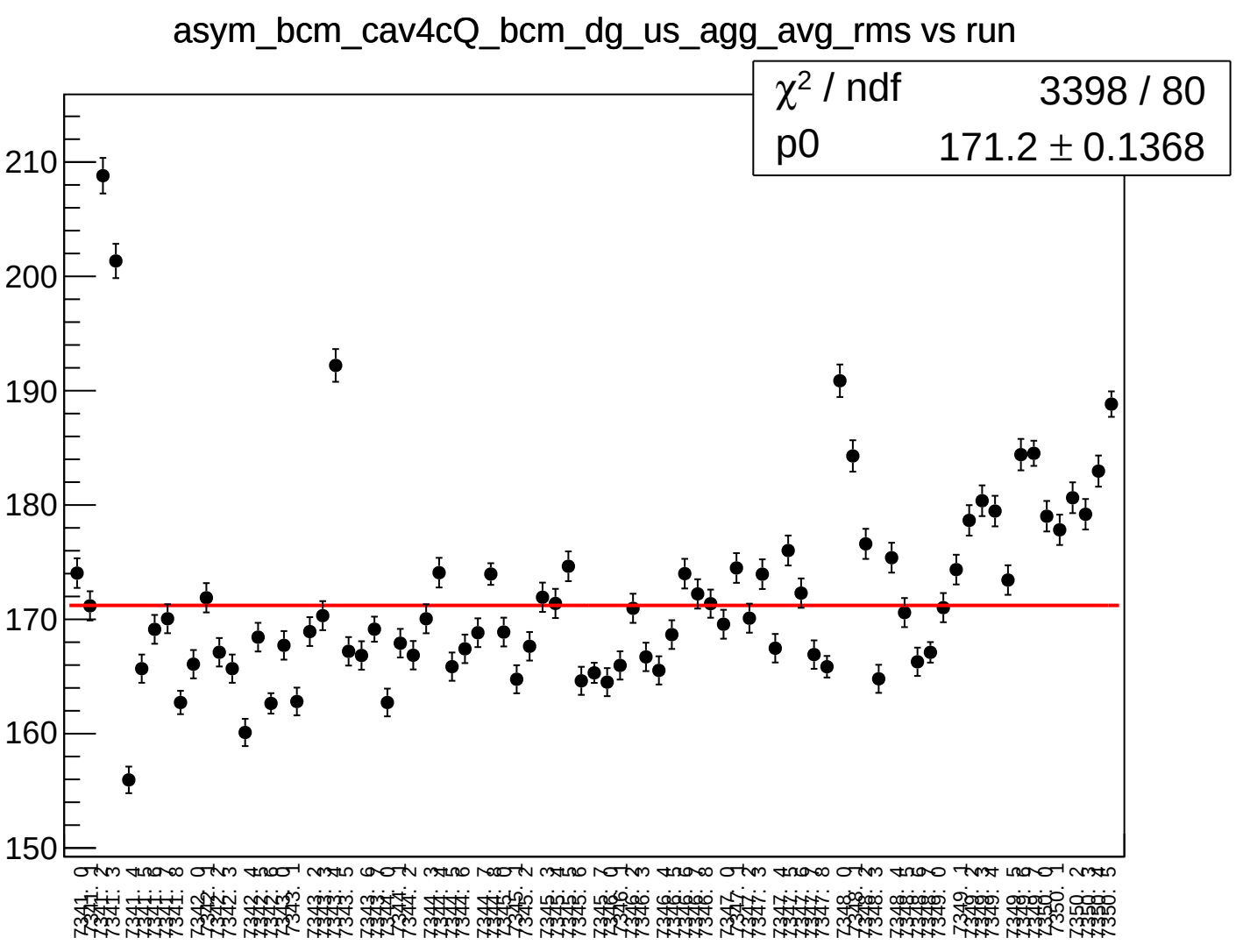

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 90.09 / 80
p0 −51.01 ± 30.83
pull
Entries 81
Mean −36.83
Std Dev 69.42

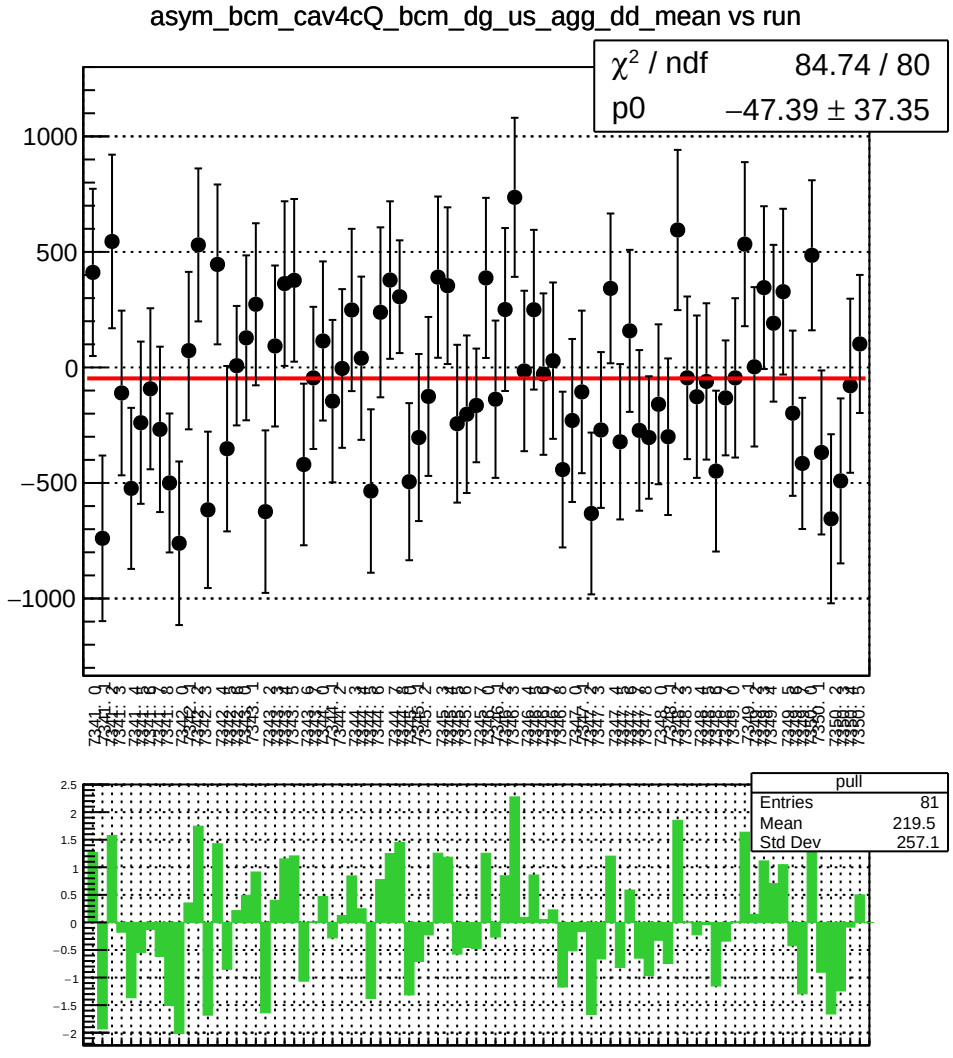

pull1D
Entries 81
Mean 0.009333
Std Dev 1.055

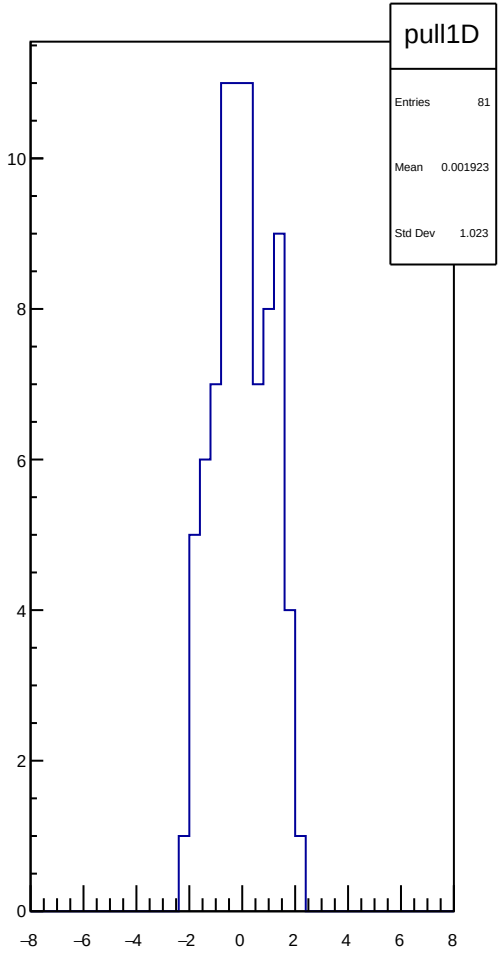

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1157 / 80
p0 27.31 ± 0.0218
30
29
28
27
26

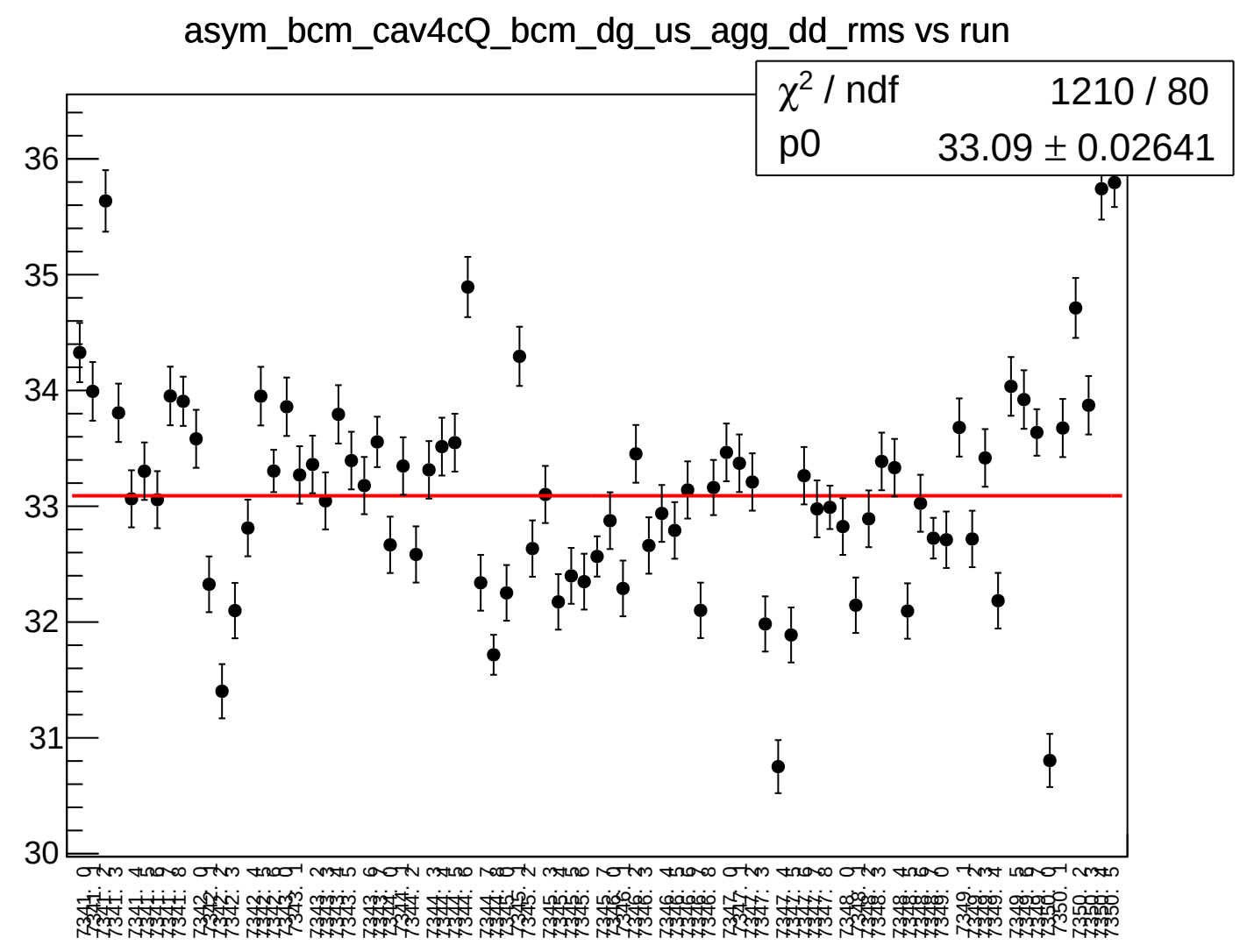

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.24 / 80
p0 −112 ± 193.4
pull
Entries 81
Mean −152
Std Dev 177.4

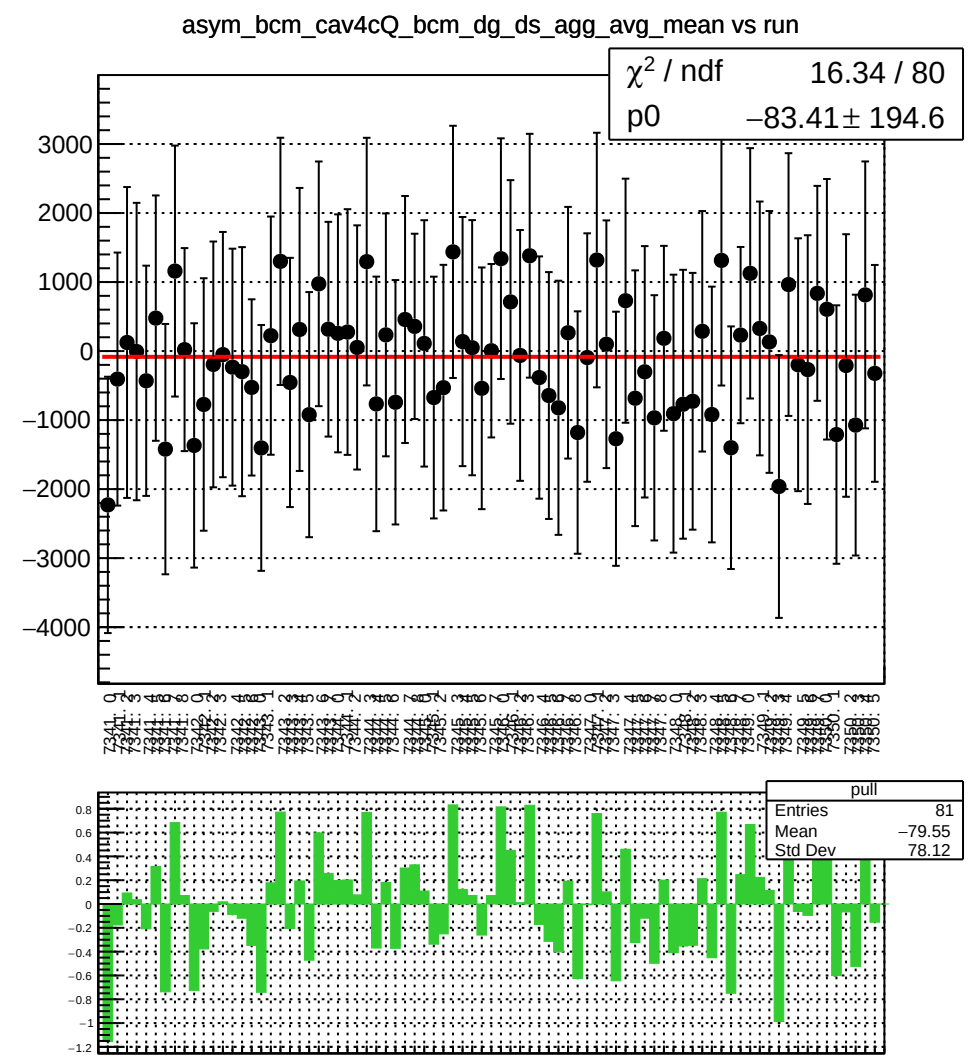

pull1D
Entries 81
Mean −0.004447
Std Dev 0.4745

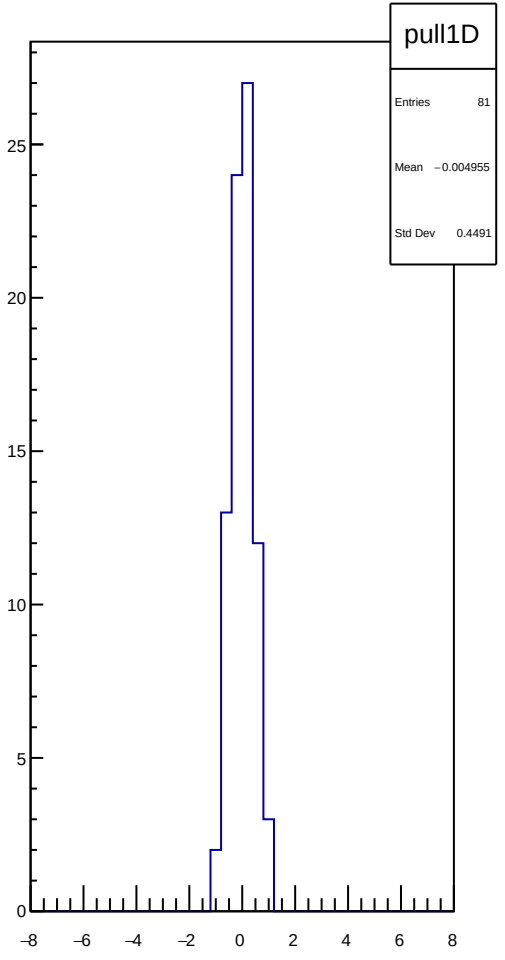

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3398 / 80
p0 171.2 ± 0.1368
210
200
190
180
170
160
150

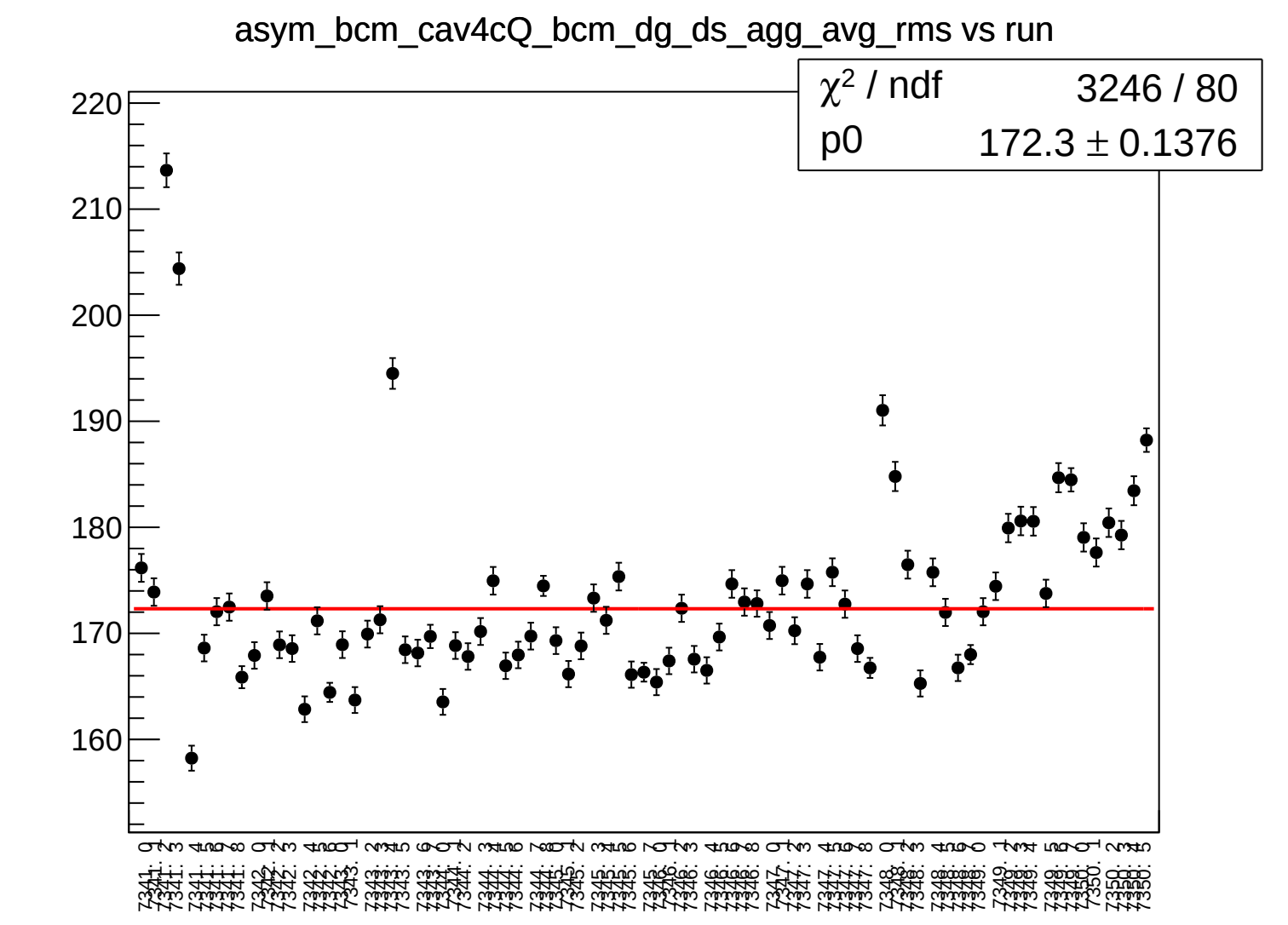

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 84.74 / 80
p0 −47.39 ± 37.35
1000
500
0
−500
−1000
pull
Entries 81
Mean 219.5
Std Dev 257.1
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

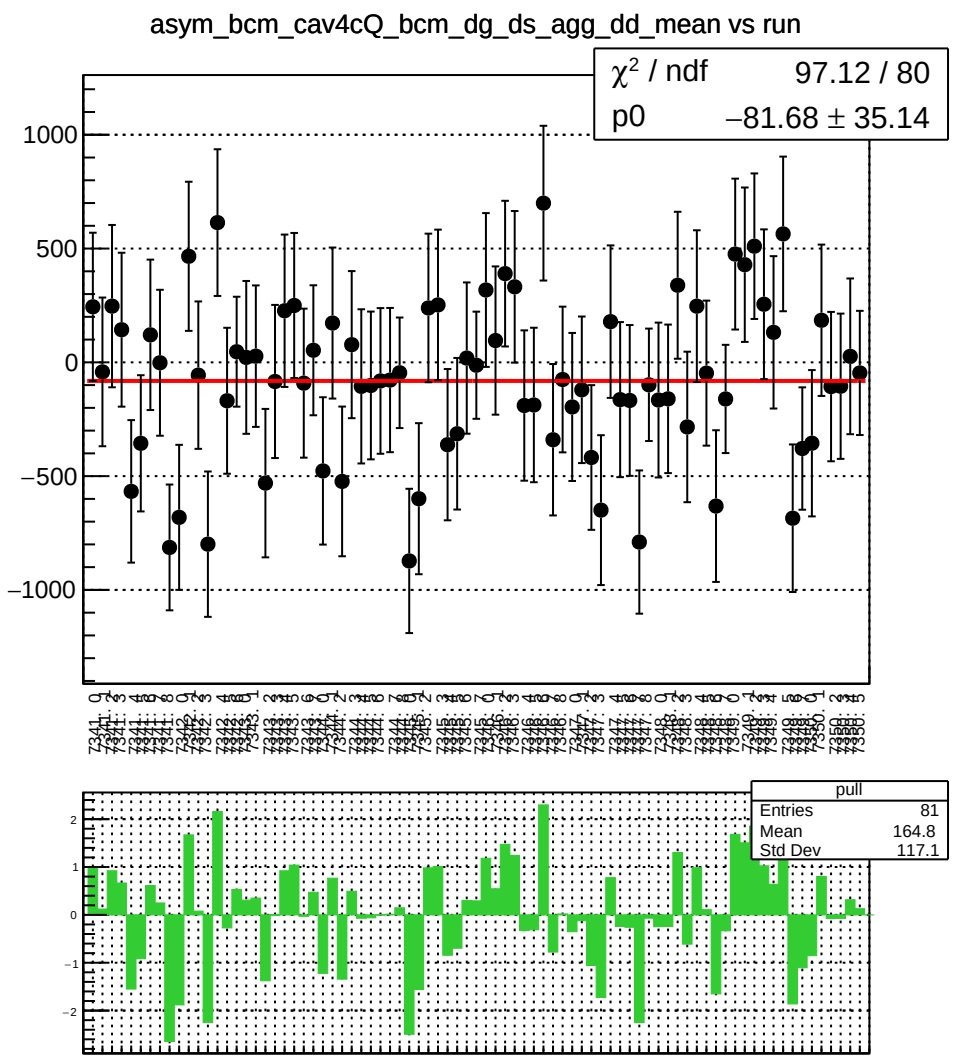

pull1D
Entries 81
Mean 0.001923
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

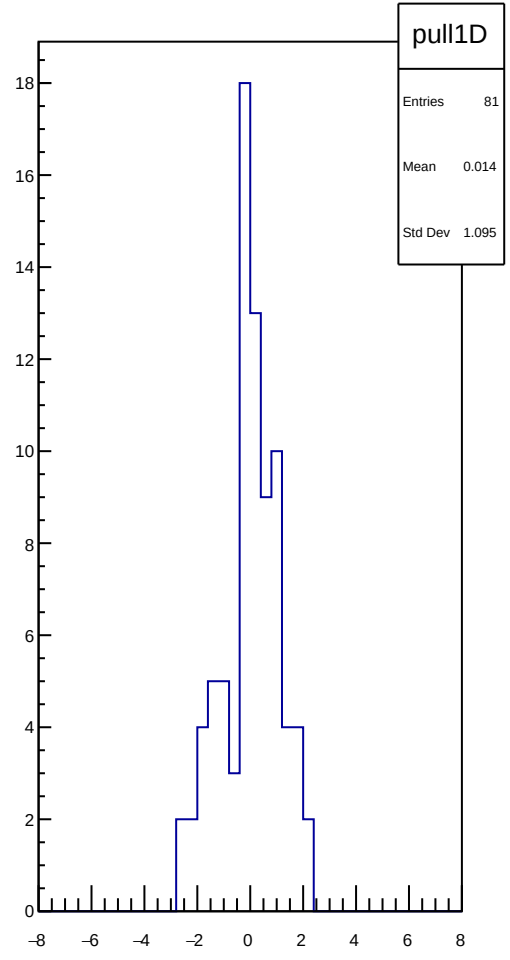

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1210 / 80
p0 33.09 ± 0.02641
36
35
34
33
32
31
30

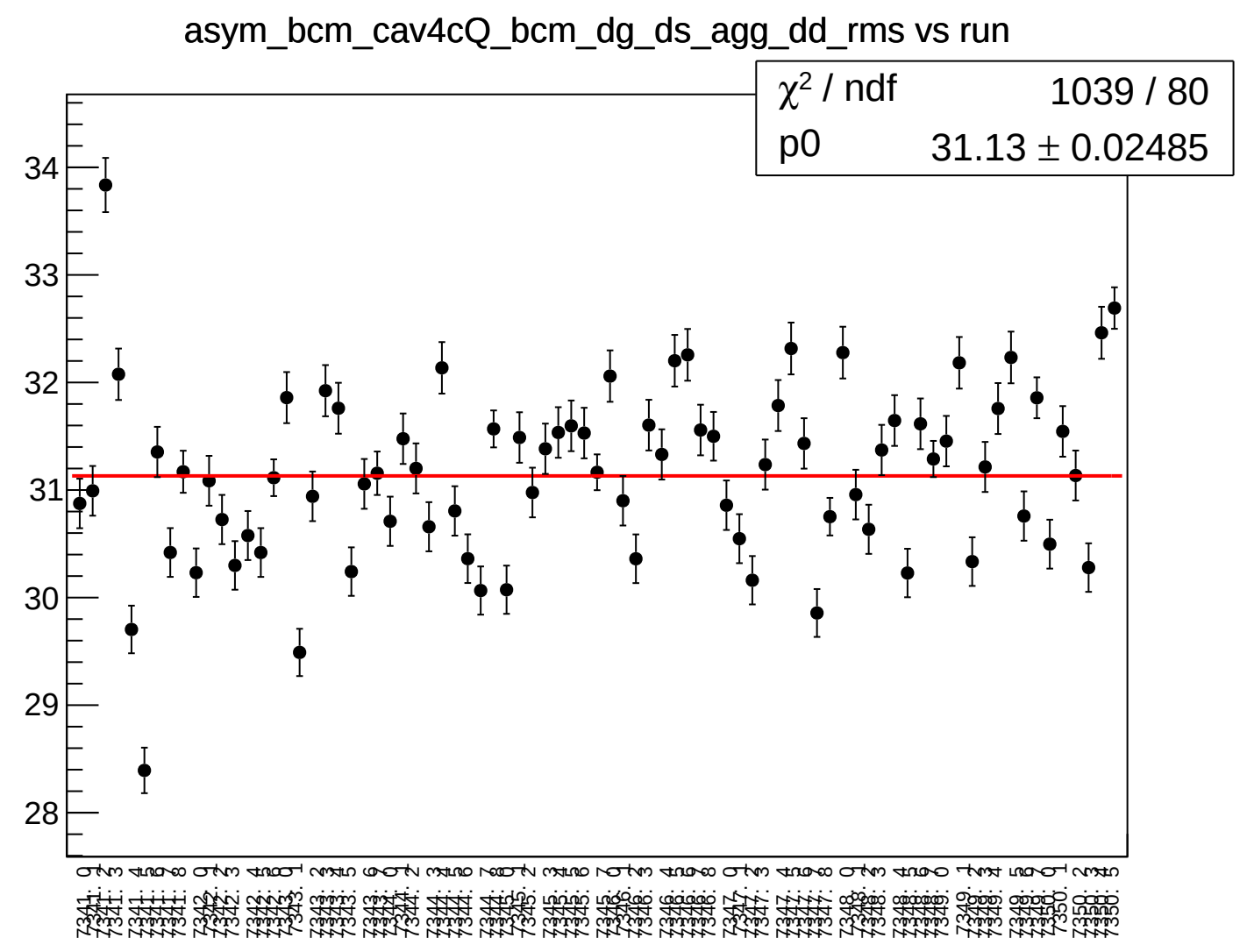

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.34 / 80
p0 −83.41 ± 194.6
pull
Entries 81
Mean −79.55
Std Dev 78.12

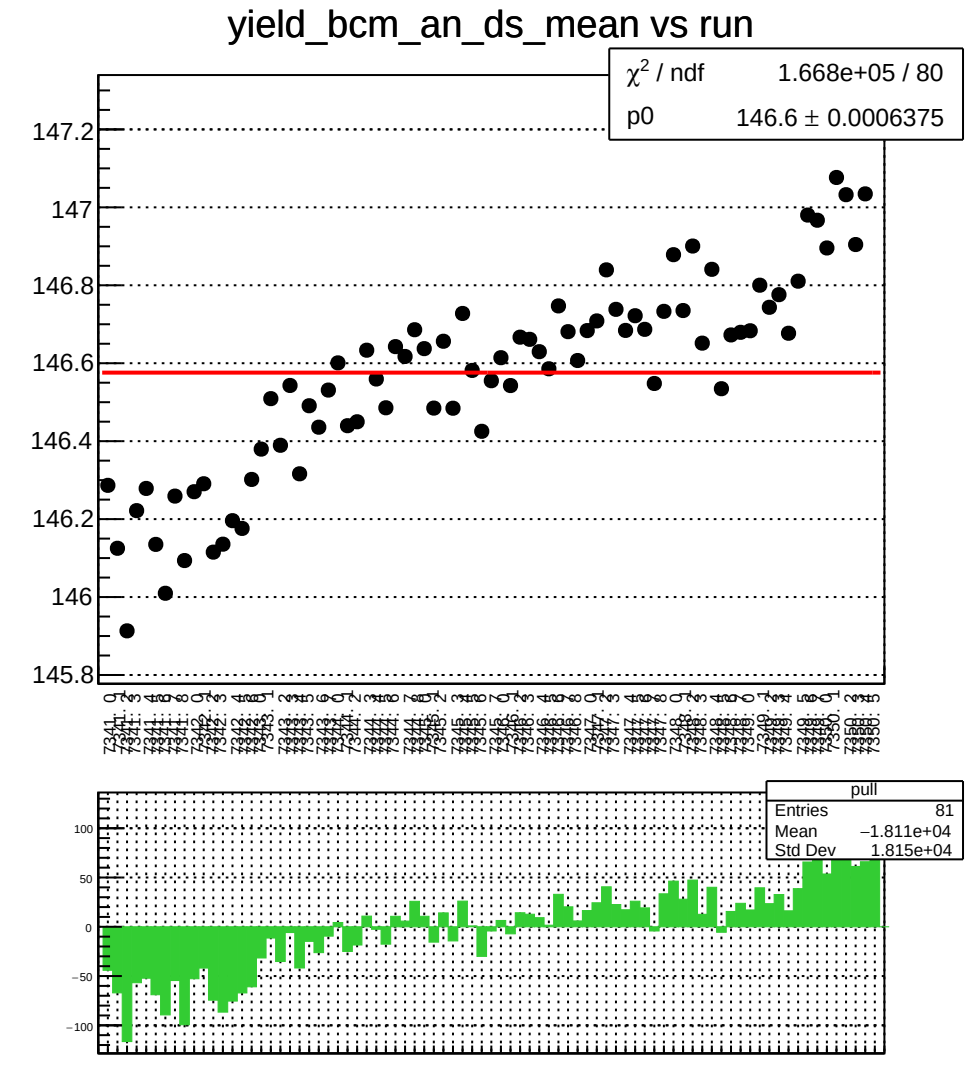

pull1D
Entries 81
Mean −0.004955
Std Dev 0.4491

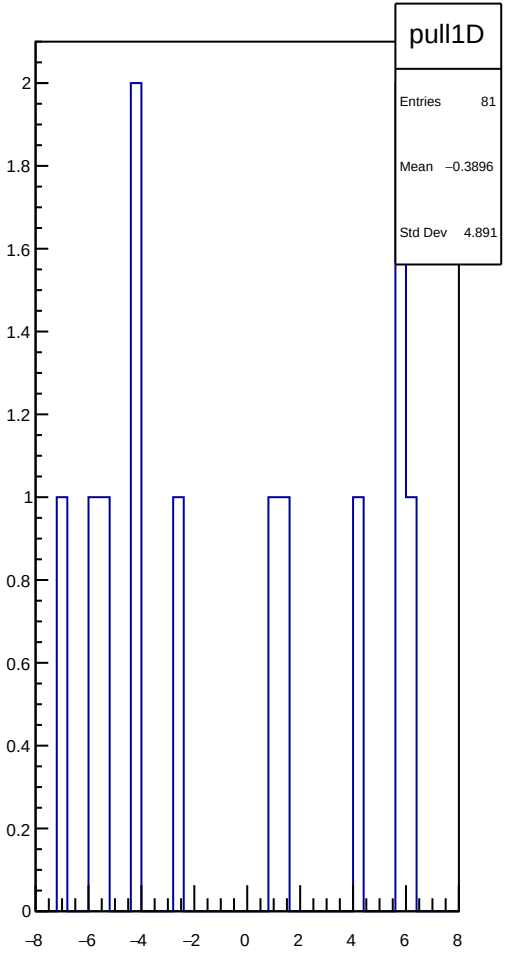

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3246 / 80
p0 172.3 ± 0.1376
220
210
200
190
180
170
160

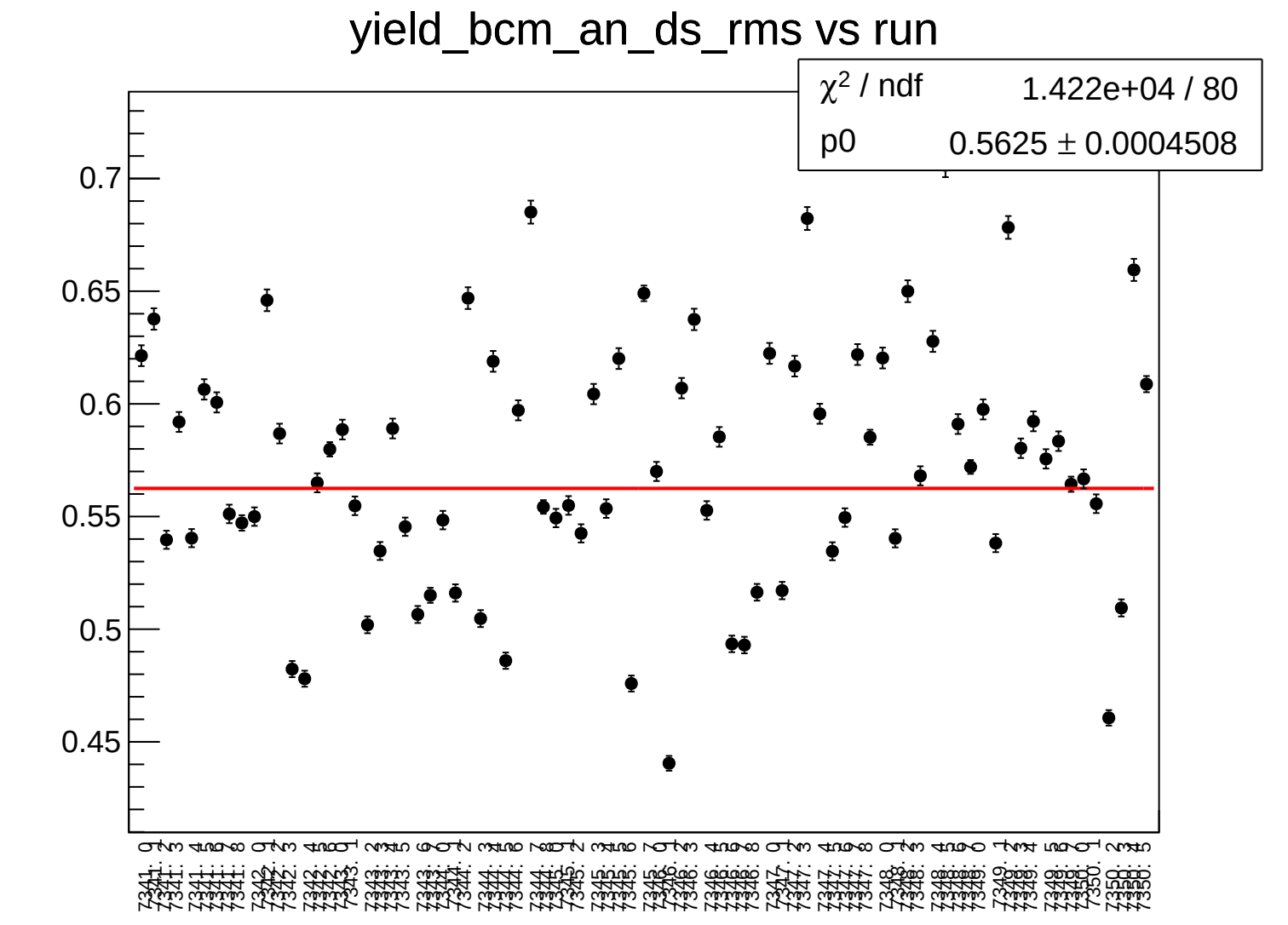

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 97.12 / 80
p0 −81.68 ± 35.14
1000
500
0
−500
−1000
pull
Entries 81
Mean 164.8
Std Dev 117.1
2
1
0
−1
−2

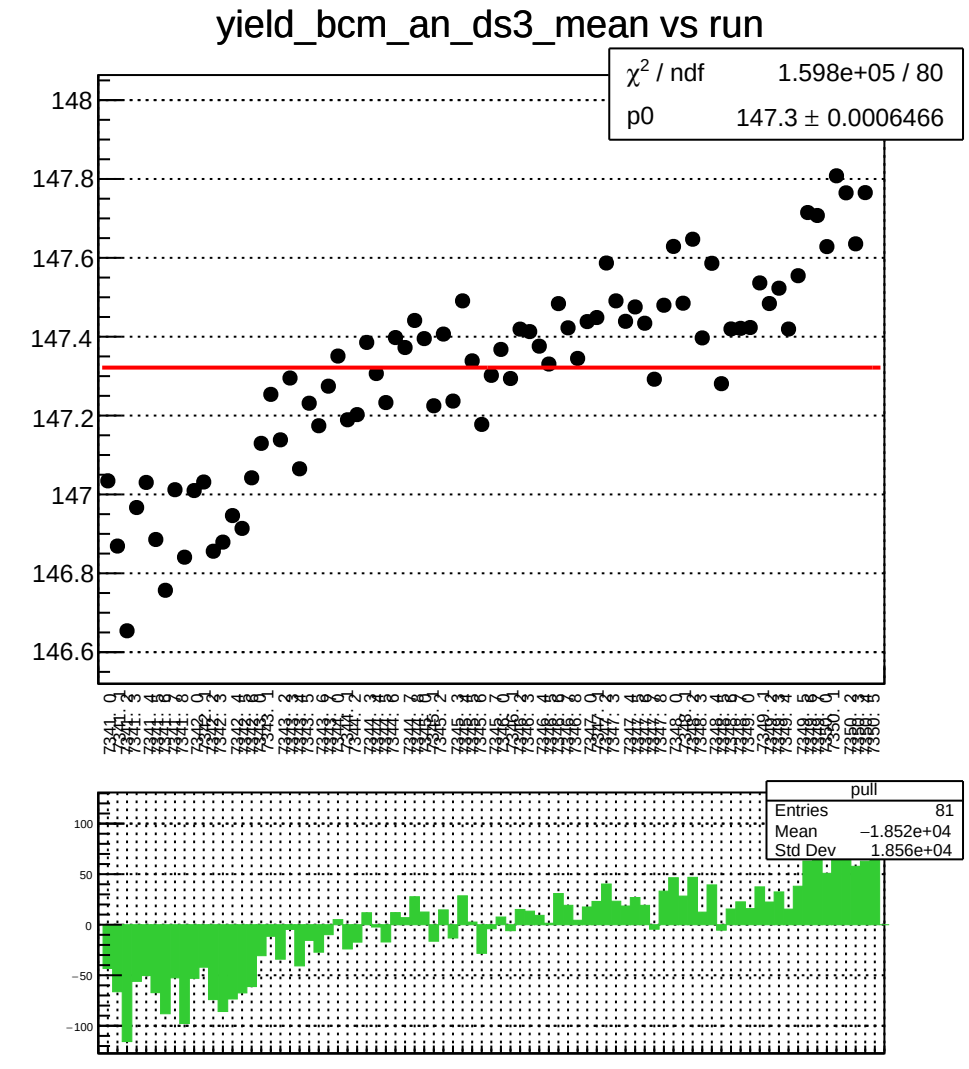

pull1D
Entries 81
Mean 0.014
Std Dev 1.095
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

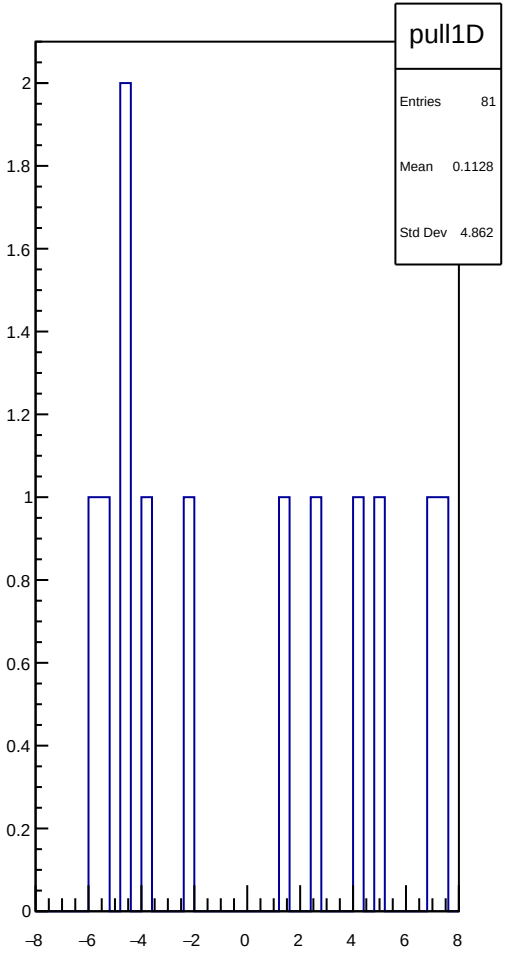

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1039 / 80
p0 31.13 ± 0.02485
34
33
32
31
30
29
28

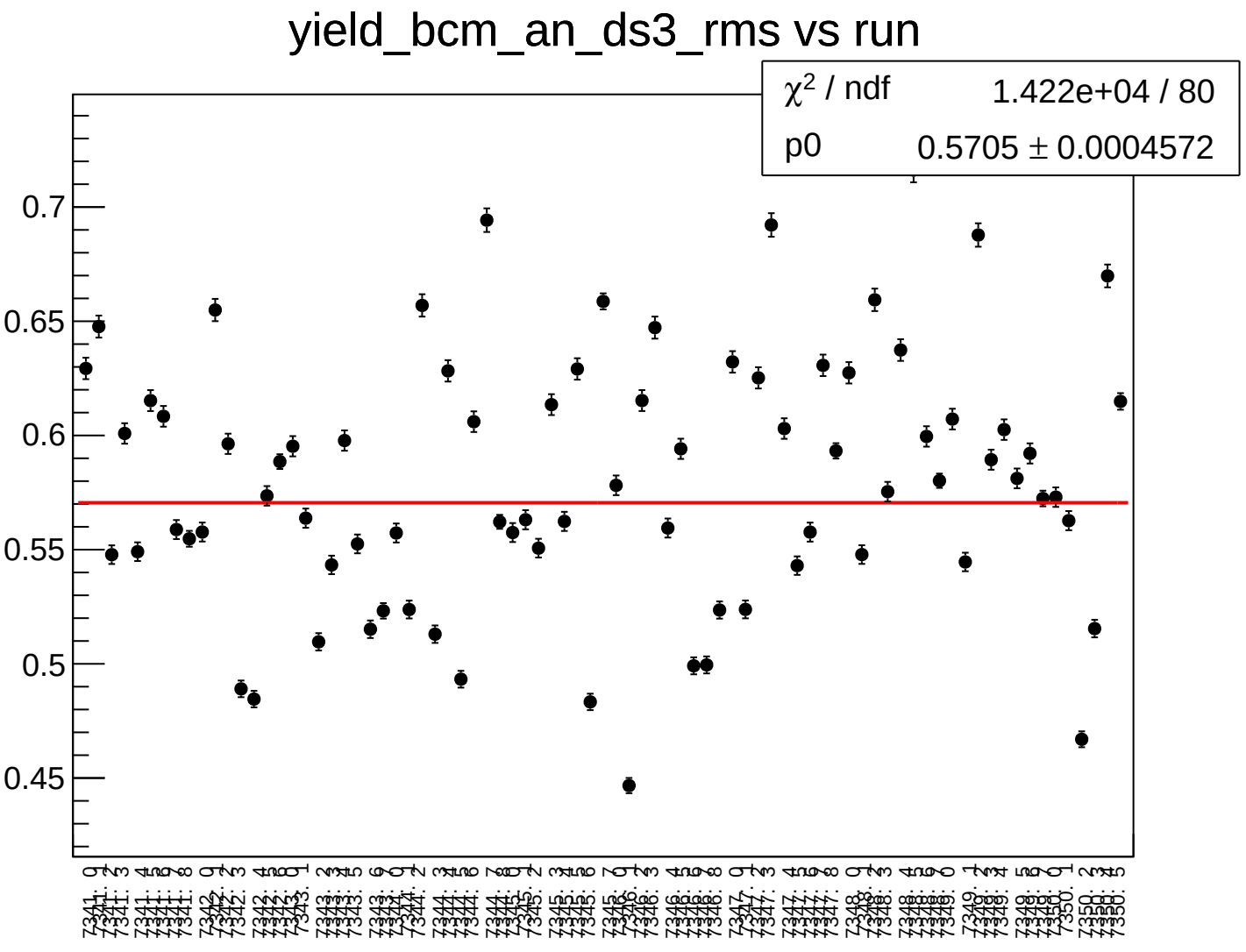

yield_bcm_an_ds_mean vs run
χ² / ndf 1.668e+05 / 80
p0 146.6 ± 0.0006375
147.2
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 81
Mean −1.811e+04
Std Dev 1.815e+04
100
50
0
−50
−100

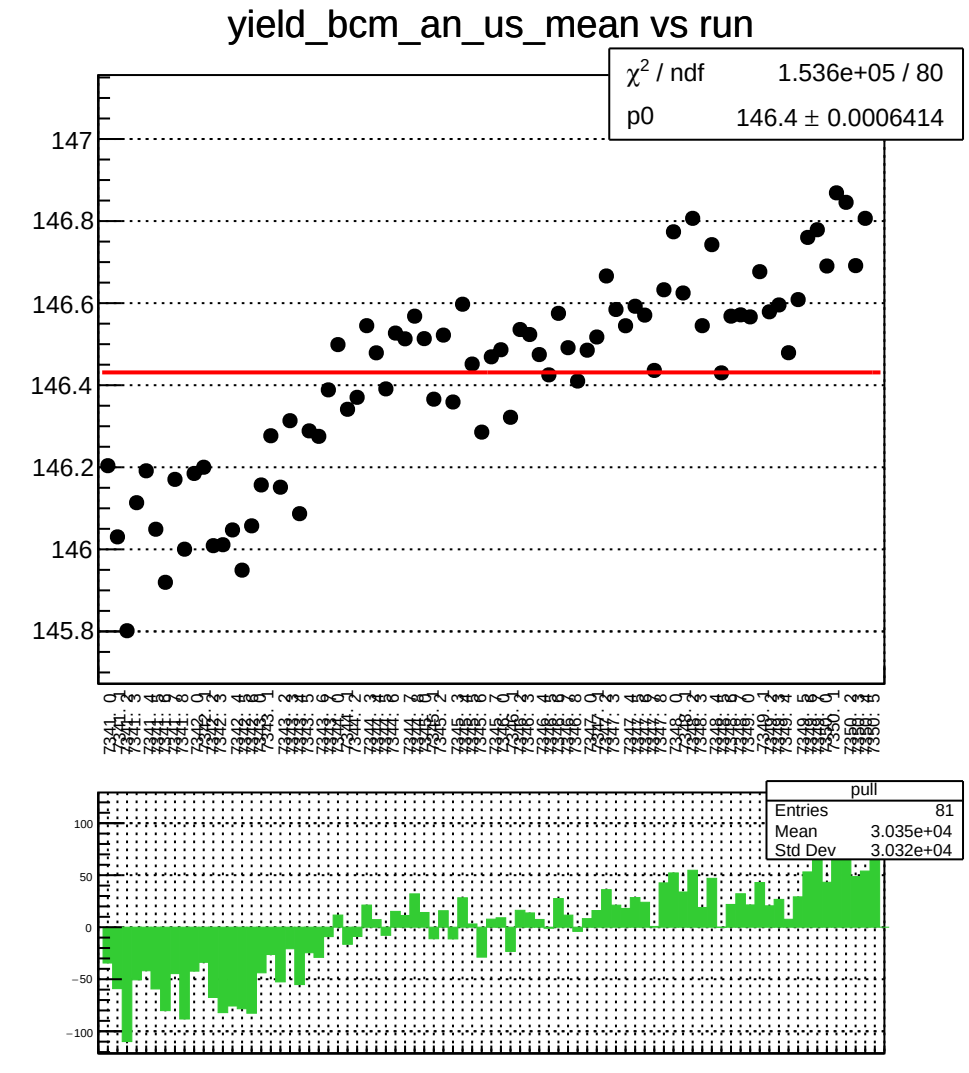

pull1D
Entries 81
Mean −0.3896
Std Dev 4.891
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

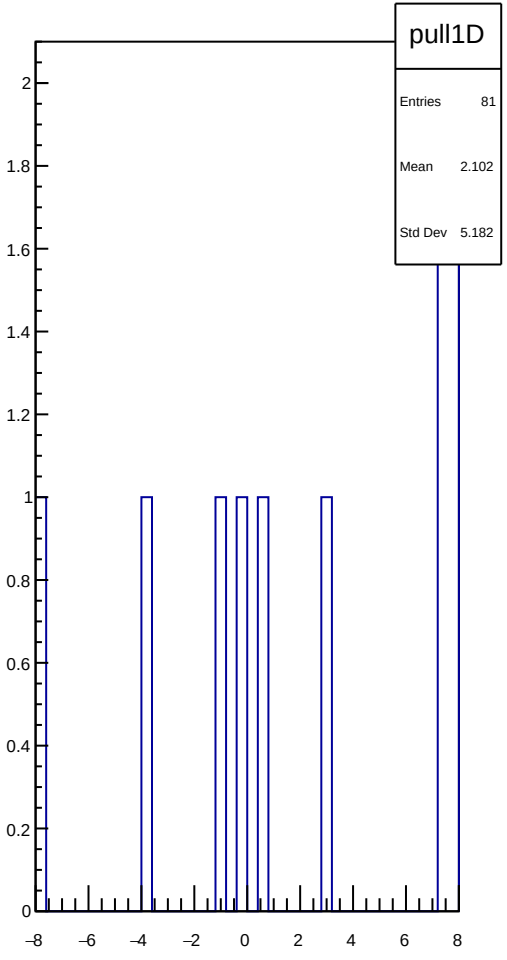

yield_bcm_an_ds_rms vs run
χ² / ndf 1.422e+04 / 80
p0 0.5625 ± 0.0004508
0.7
0.65
0.6
0.55
0.5
0.45

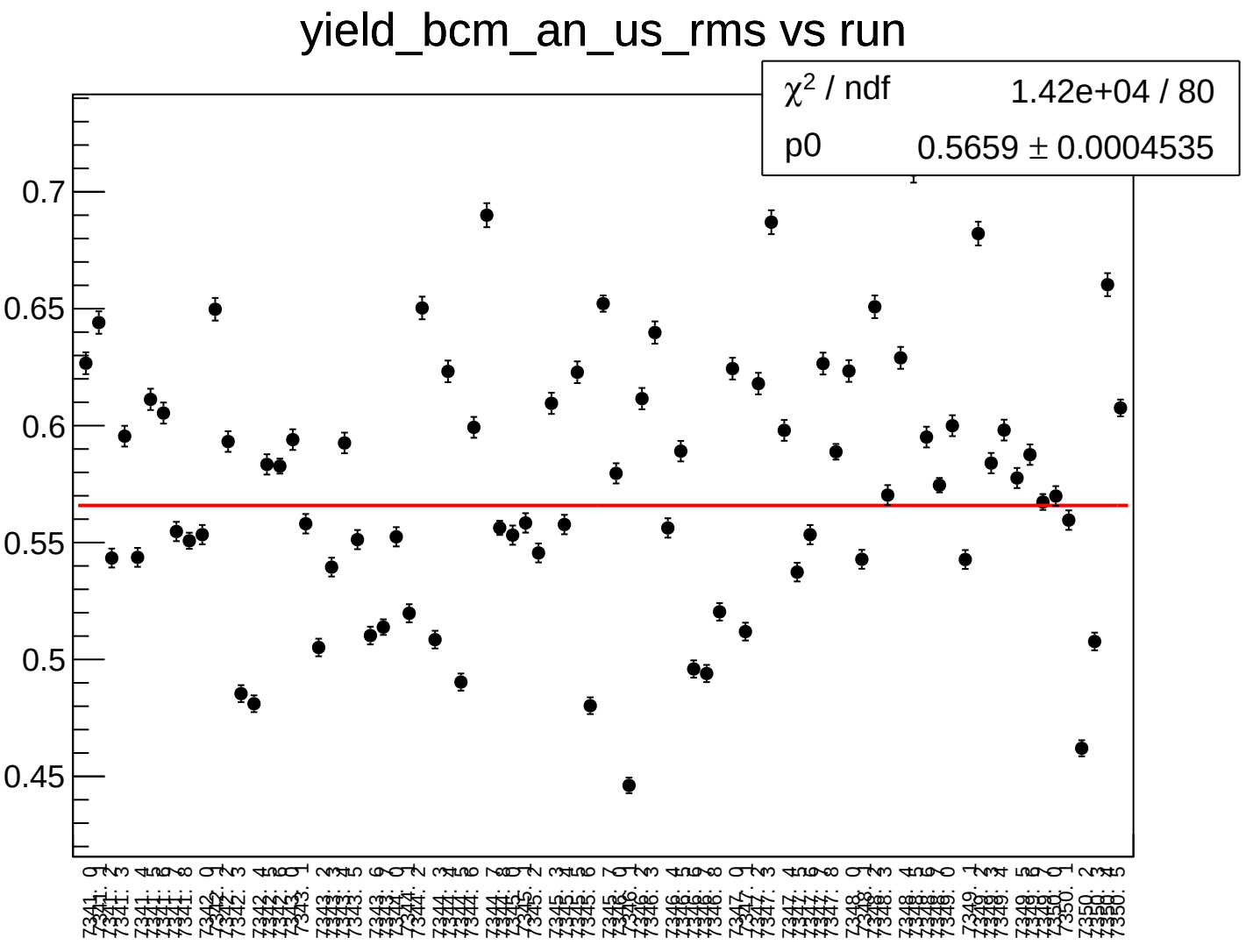

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.598e+05 / 80
p0 147.3 ± 0.0006466
148
147.8
147.6
147.4
147.2
147
146.8
146.6
pull
Entries 81
Mean −1.852e+04
Std Dev 1.856e+04
100
50
0
−50
−100

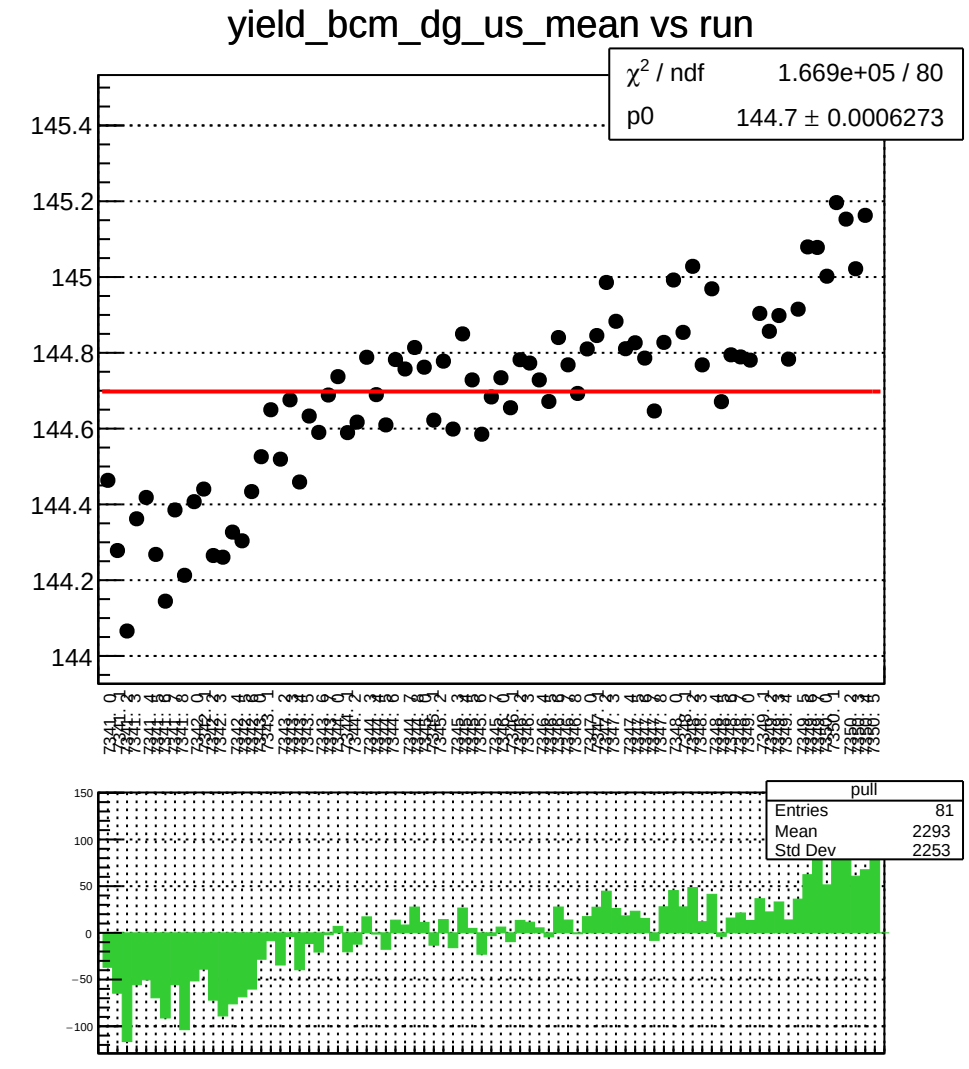

pull1D
Entries 81
Mean 0.1128
Std Dev 4.862
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

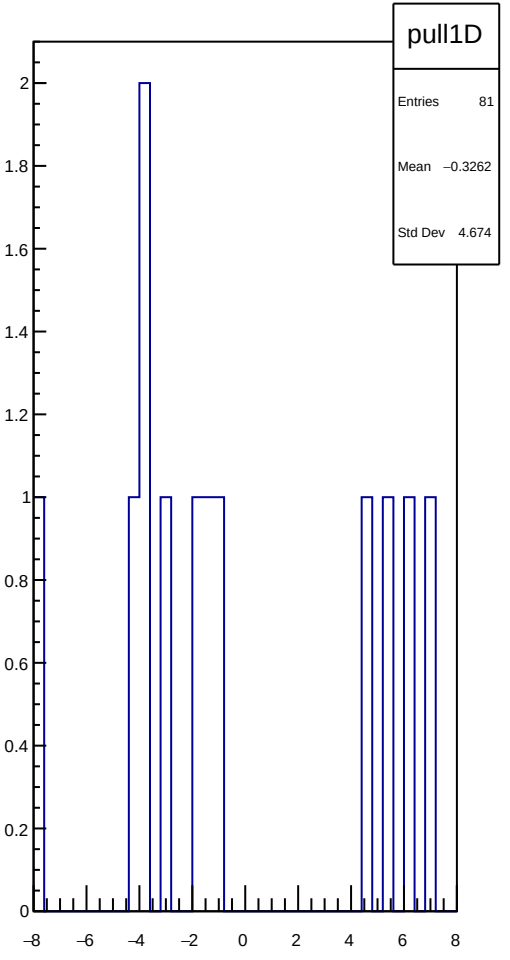

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.422e+04 / 80
p0 0.5705 ± 0.0004572
0.7
0.65
0.6
0.55
0.5
0.45

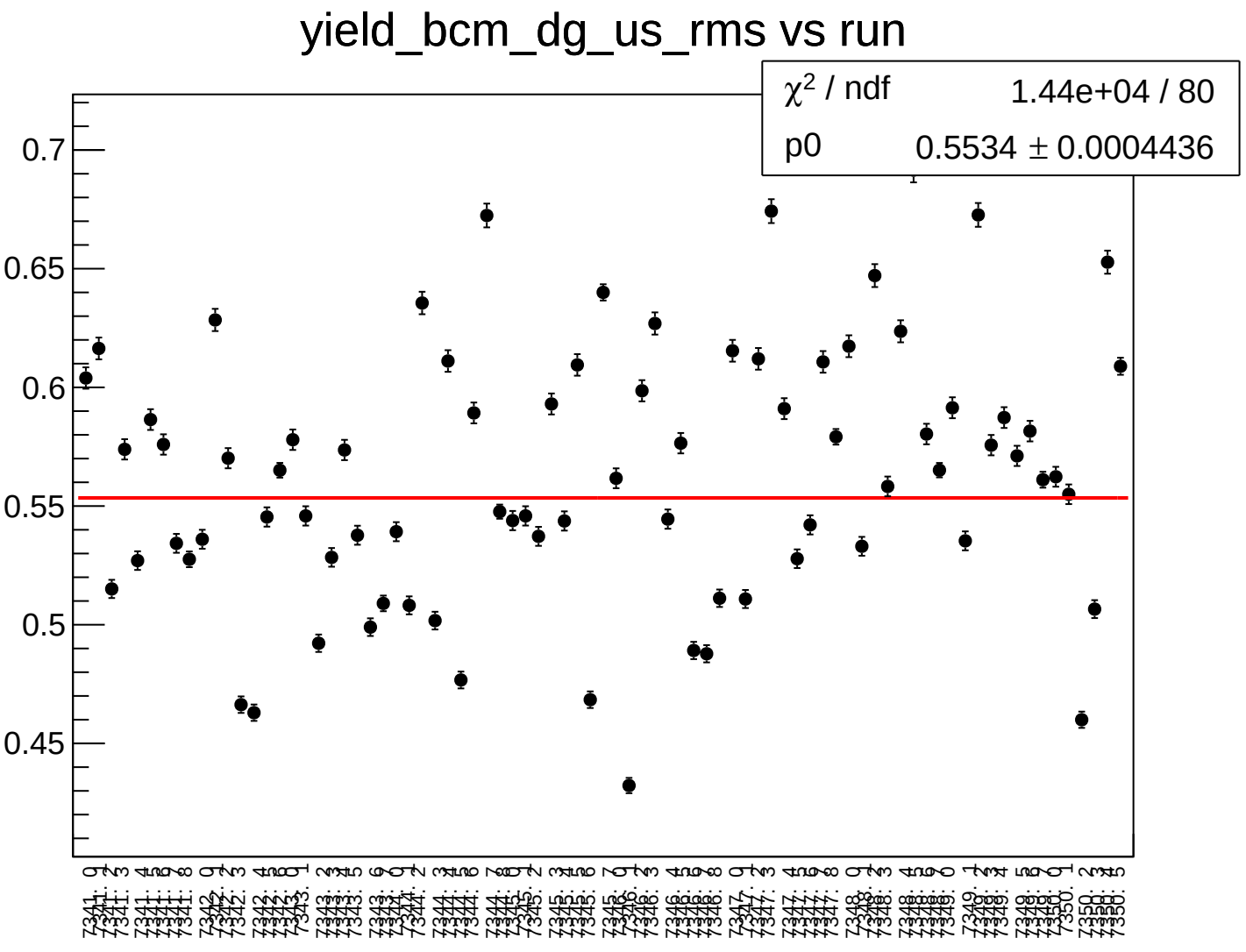

yield_bcm_an_us_mean vs run
χ² / ndf 1.536e+05 / 80
p0 146.4 ± 0.0006414
147
146.8
146.6
146.4
146.2
146
145.8
pull
Entries 81
Mean 3.035e+04
Std Dev 3.032e+04
100
50
0
−50
−100

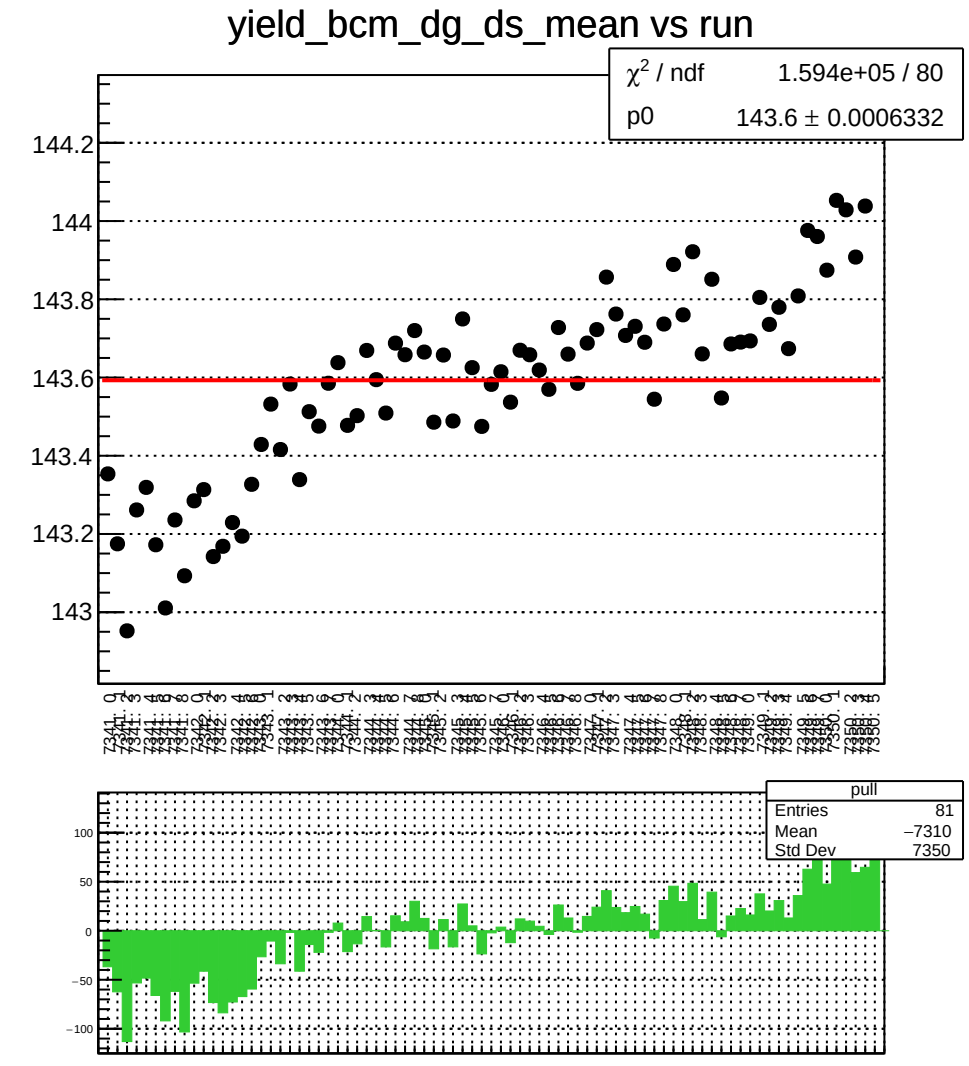

pull1D
Entries 81
Mean 2.102
Std Dev 5.182
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

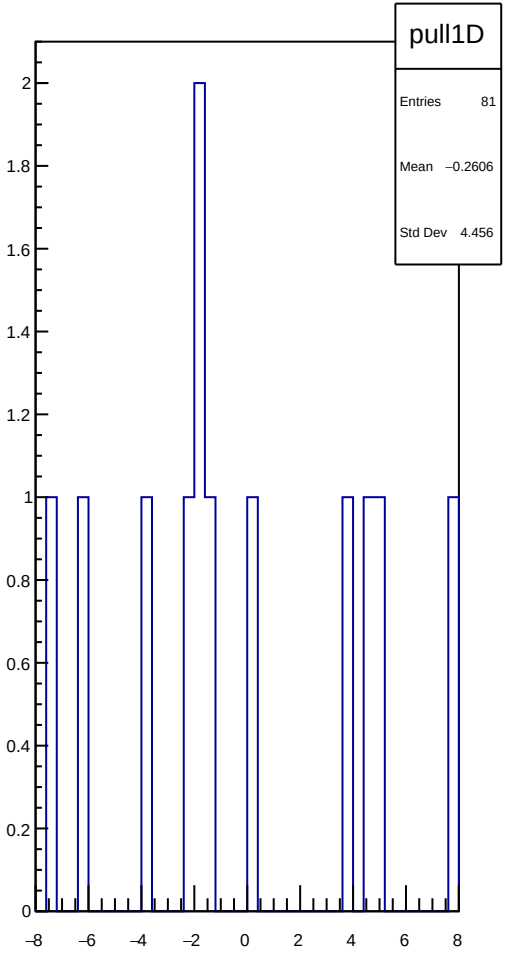

yield_bcm_an_us_rms vs run
χ² / ndf 1.42e+04 / 80
p0 0.5659 ± 0.0004535
0.7
0.65
0.6
0.55
0.5
0.45

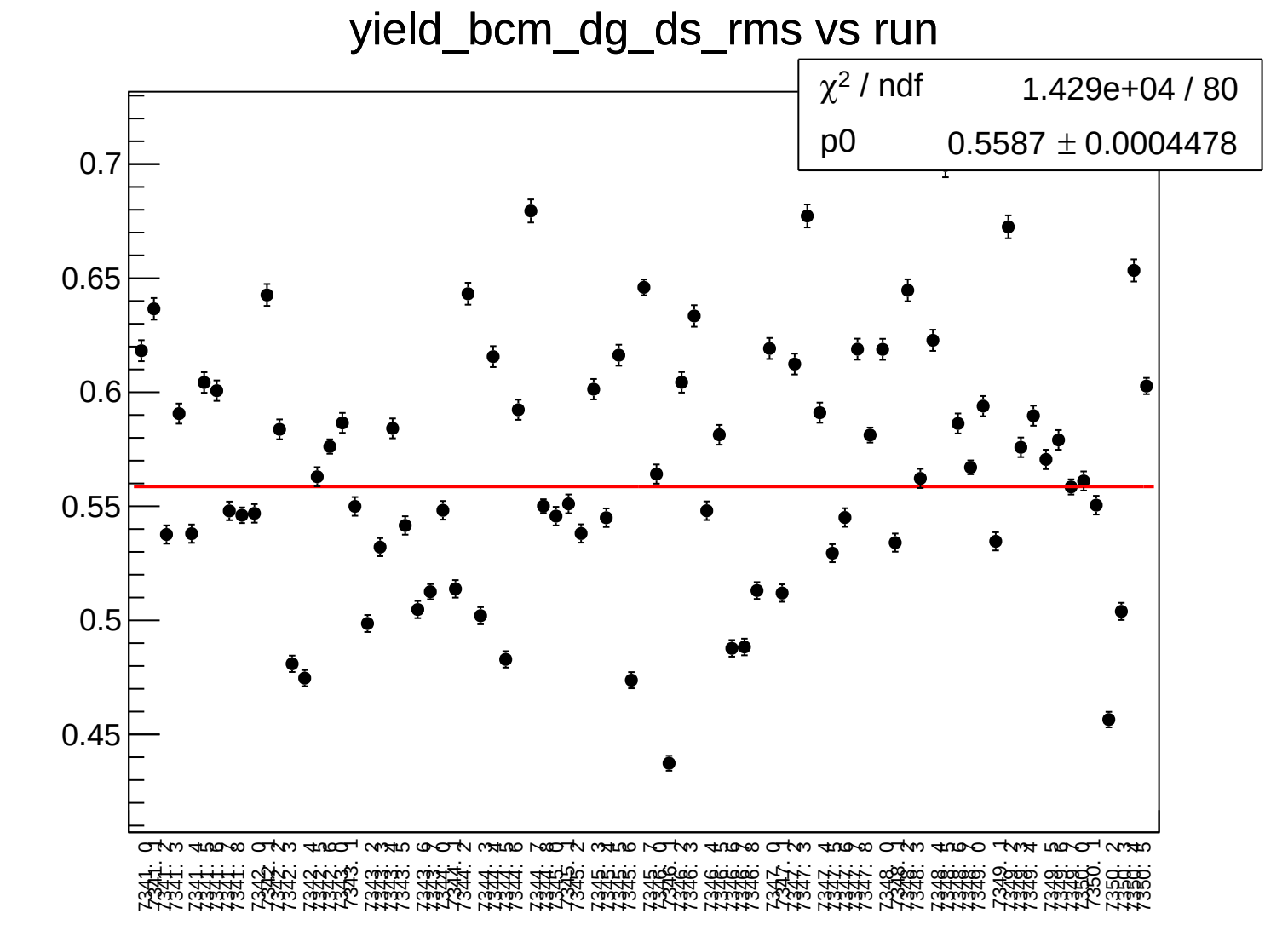

yield_bcm_dg_us_mean vs run
χ² / ndf 1.669e+05 / 80
p0 144.7 ± 0.0006273
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 81
Mean 2293
Std Dev 2253
150
100
50
0
−50
−100

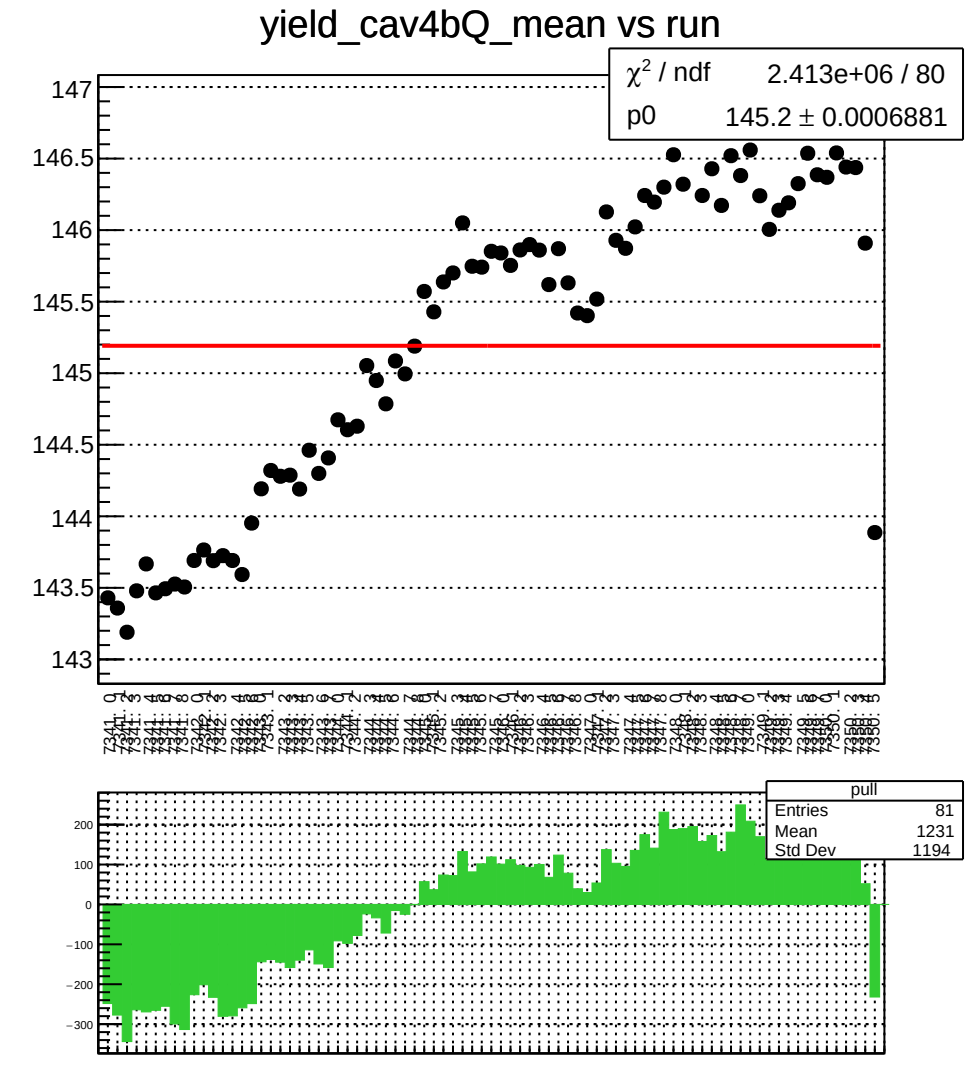

pull1D
Entries 81
Mean −0.3262
Std Dev 4.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

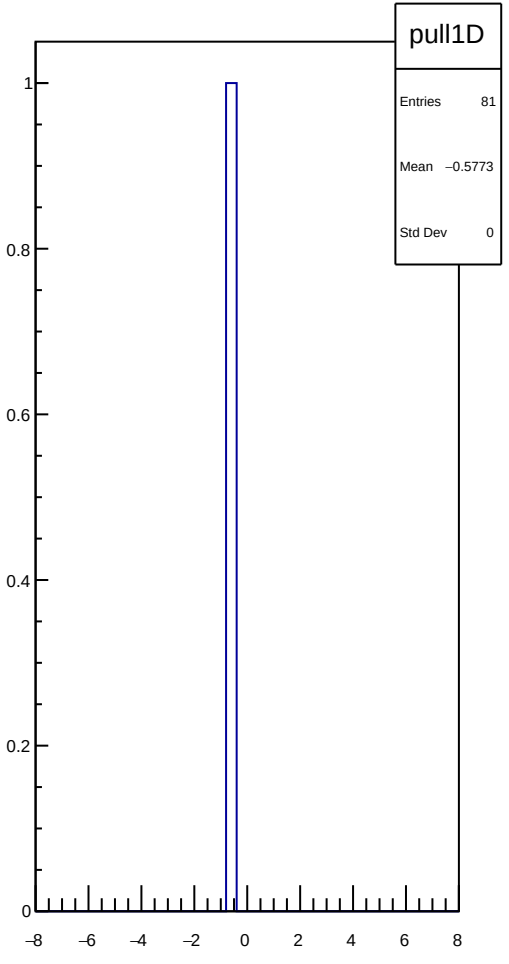

yield_bcm_dg_us_rms vs run
χ² / ndf 1.44e+04 / 80
p0 0.5534 ± 0.0004436
0.7
0.65
0.6
0.55
0.5
0.45

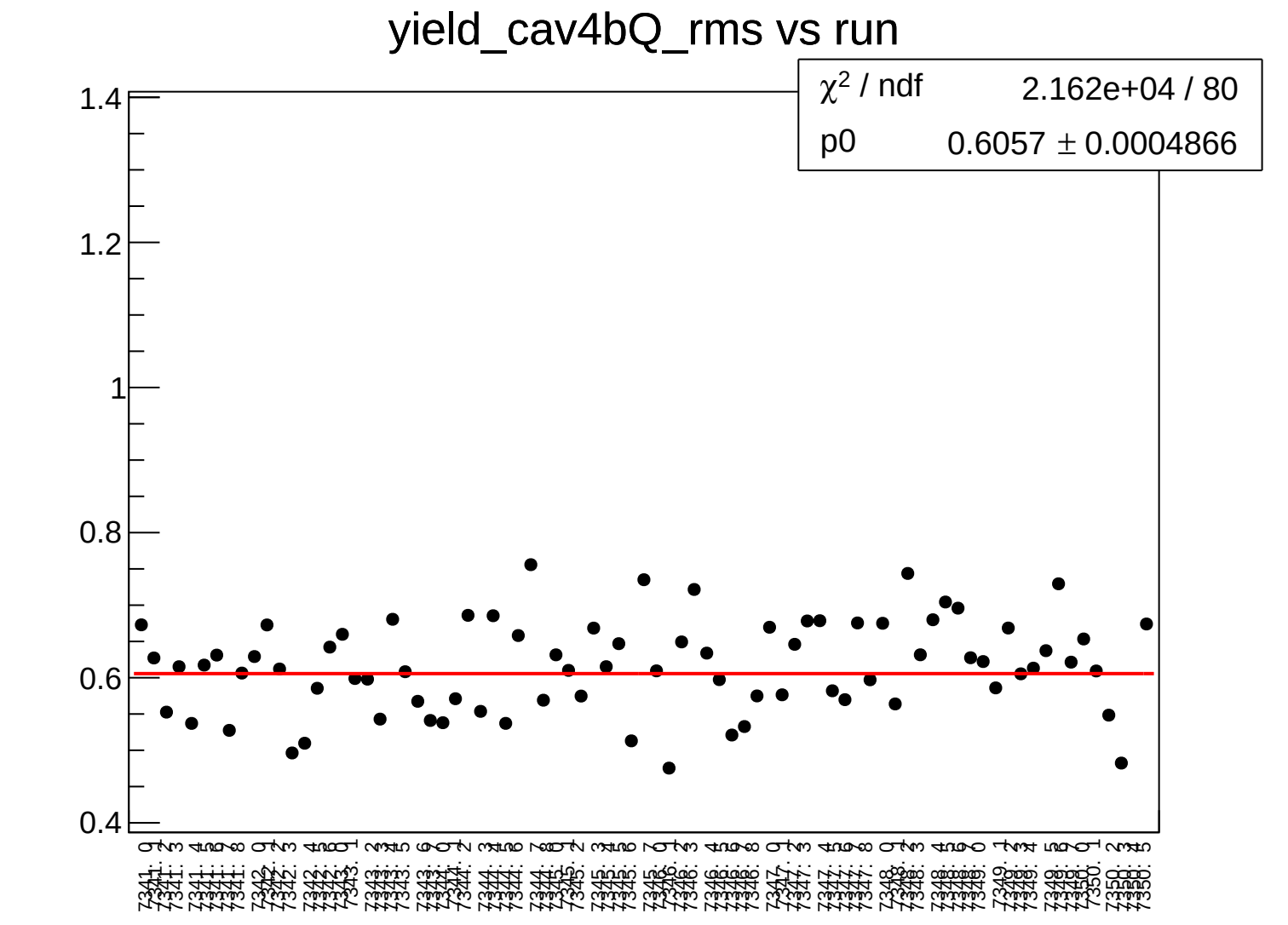

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.594e+05 / 80
p0 143.6 ± 0.0006332
144.2
144
143.8
143.6
143.4
143.2
143
pull
Entries 81
Mean −7310
Std Dev 7350
100
50
0
−50
−100

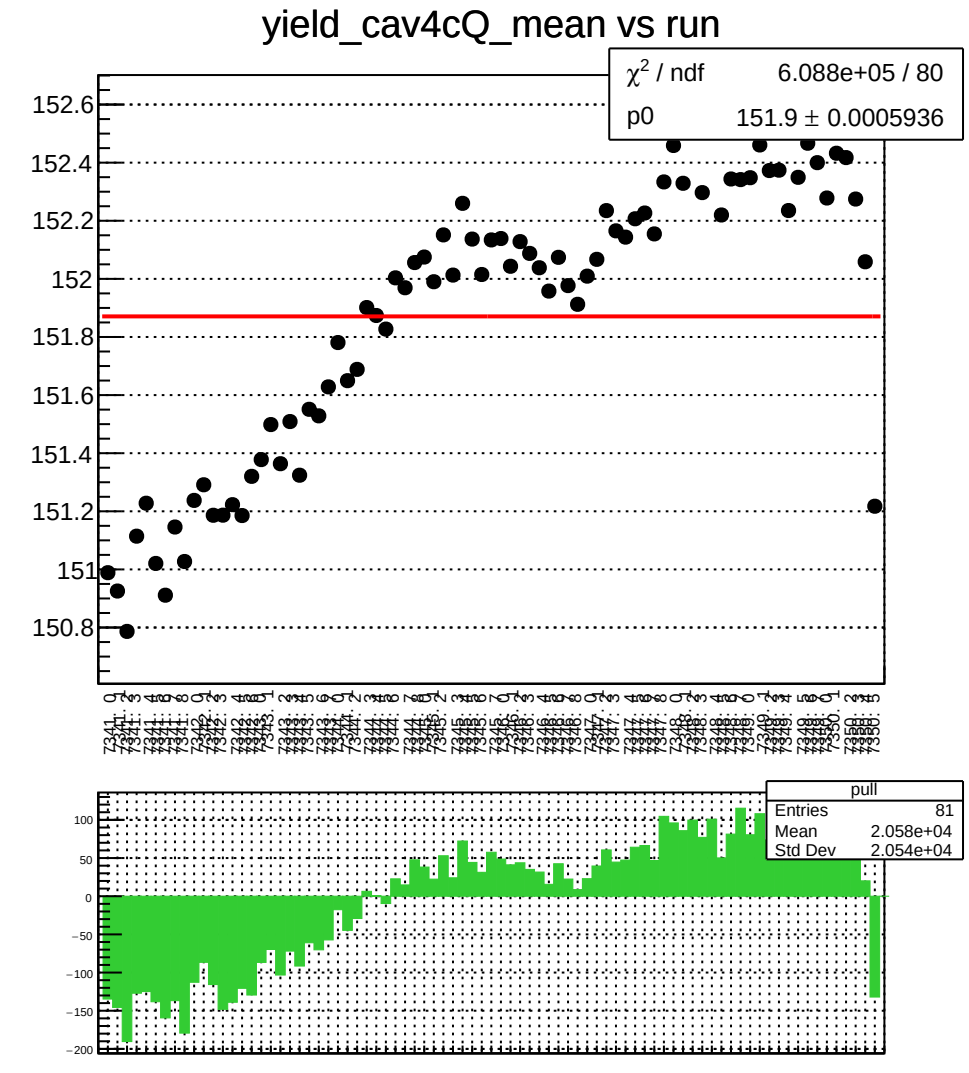

pull1D
Entries 81
Mean −0.2606
Std Dev 4.456
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

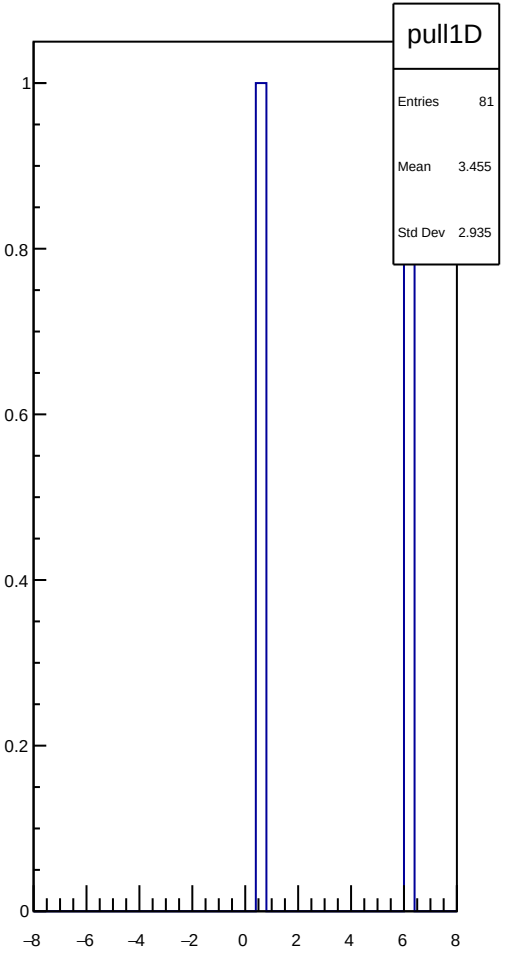

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.429e+04 / 80
p0 0.5587 ± 0.0004478
0.7
0.65
0.6
0.55
0.5
0.45

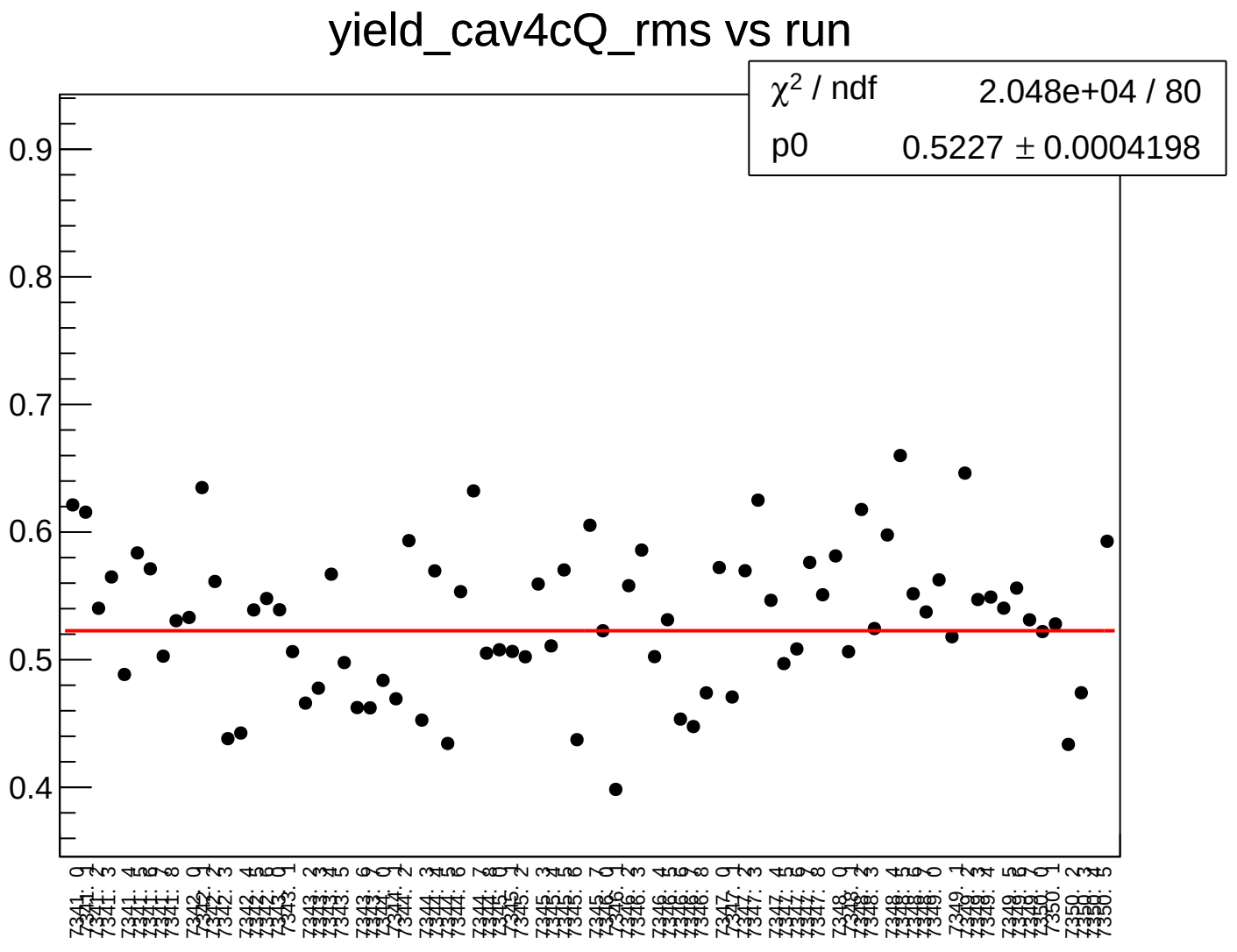

yield_cav4bQ_mean vs run
χ² / ndf 2.413e+06 / 80
p0 145.2 ± 0.0006881
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 81
Mean 1231
Std Dev 1194
200
100
0
−100
−200
−300

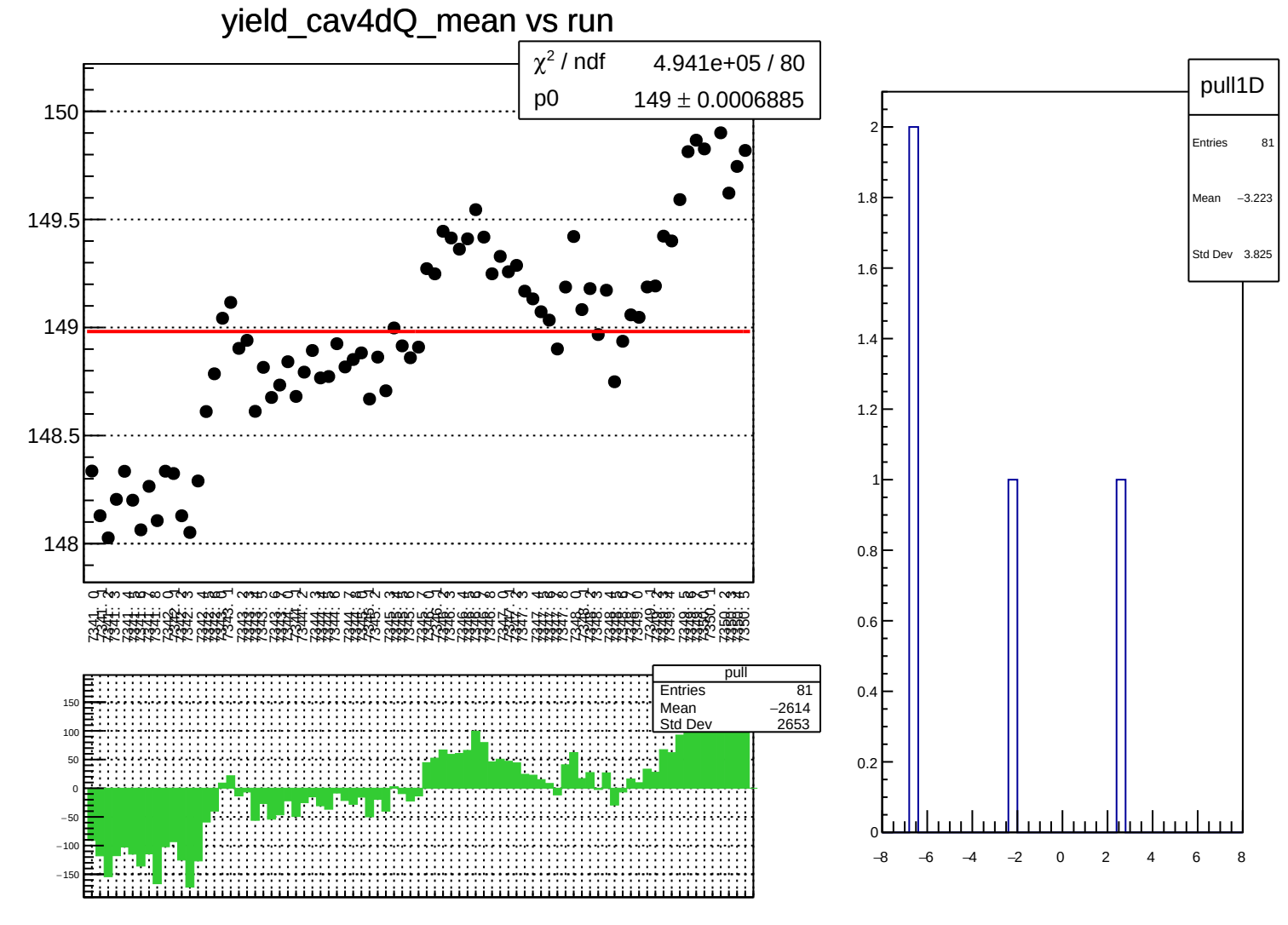

pull1D
Entries 81
Mean −0.5773
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

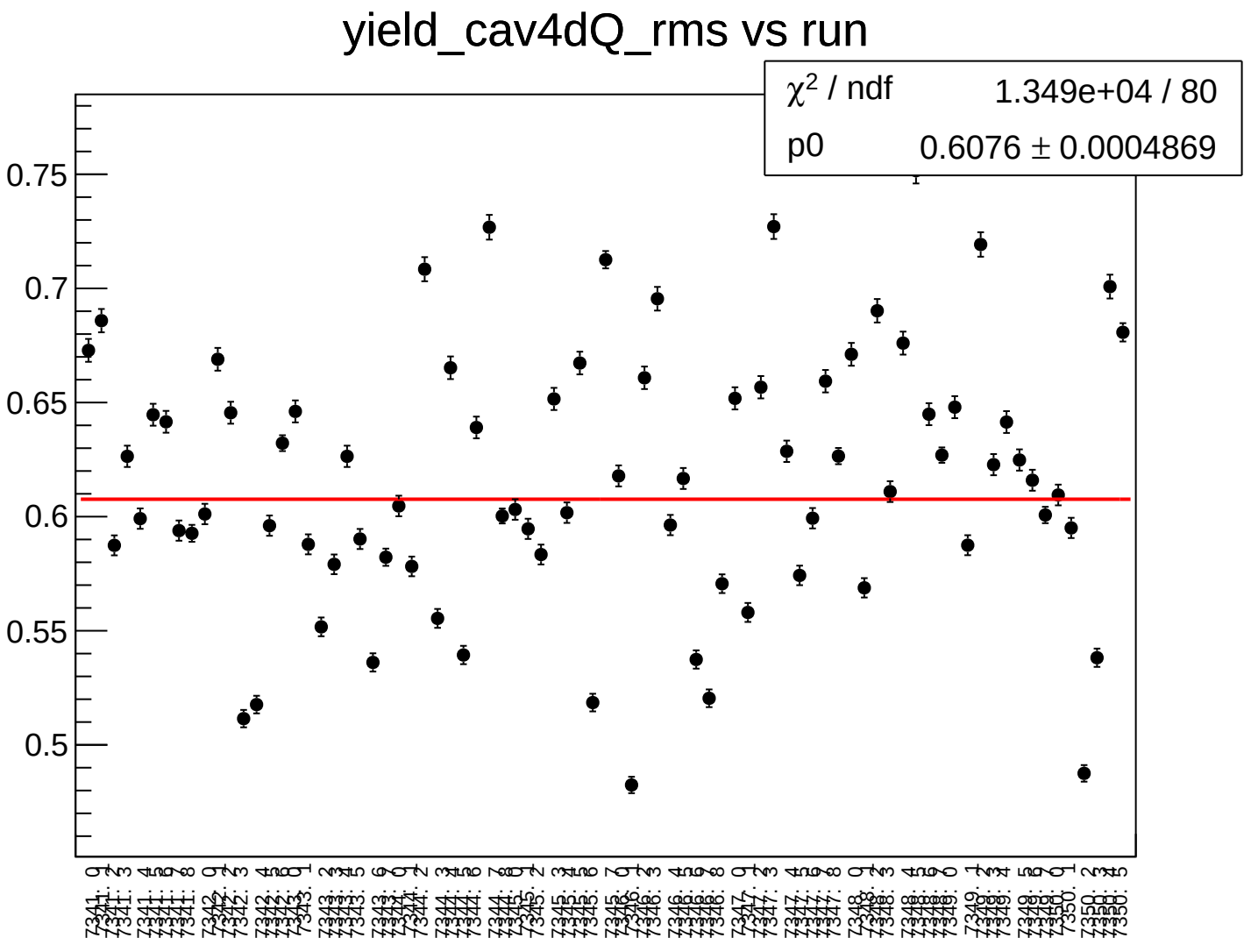

yield_cav4bQ_rms vs run
χ² / ndf 2.162e+04 / 80
p0 0.6057 ± 0.0004866
1.4
1.2
1
0.8
0.6
0.4

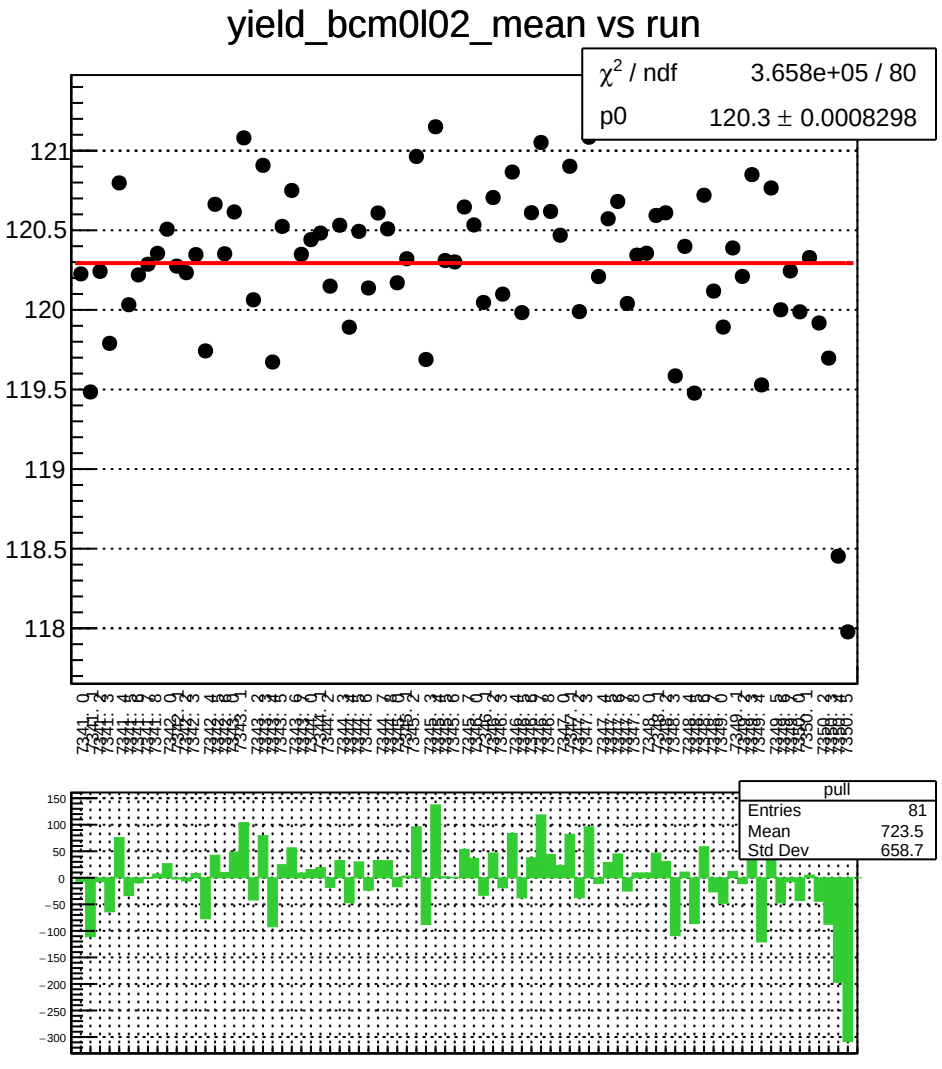

yield_cav4cQ_mean vs run
χ² / ndf 6.088e+05 / 80
p0 151.9 ± 0.0005936
152.6
152.4
152.2
152
151.8
151.6
151.4
151.2
151
150.8
pull
Entries 81
Mean 2.058e+04
Std Dev 2.054e+04
100
50
0
−50
−100
−150
−200

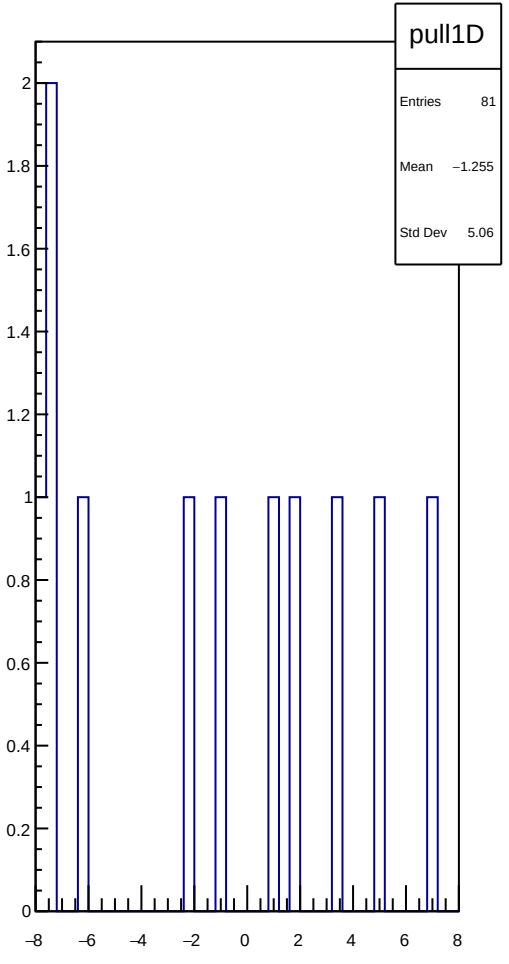

pull1D
Entries 81
Mean 3.455
Std Dev 2.935
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

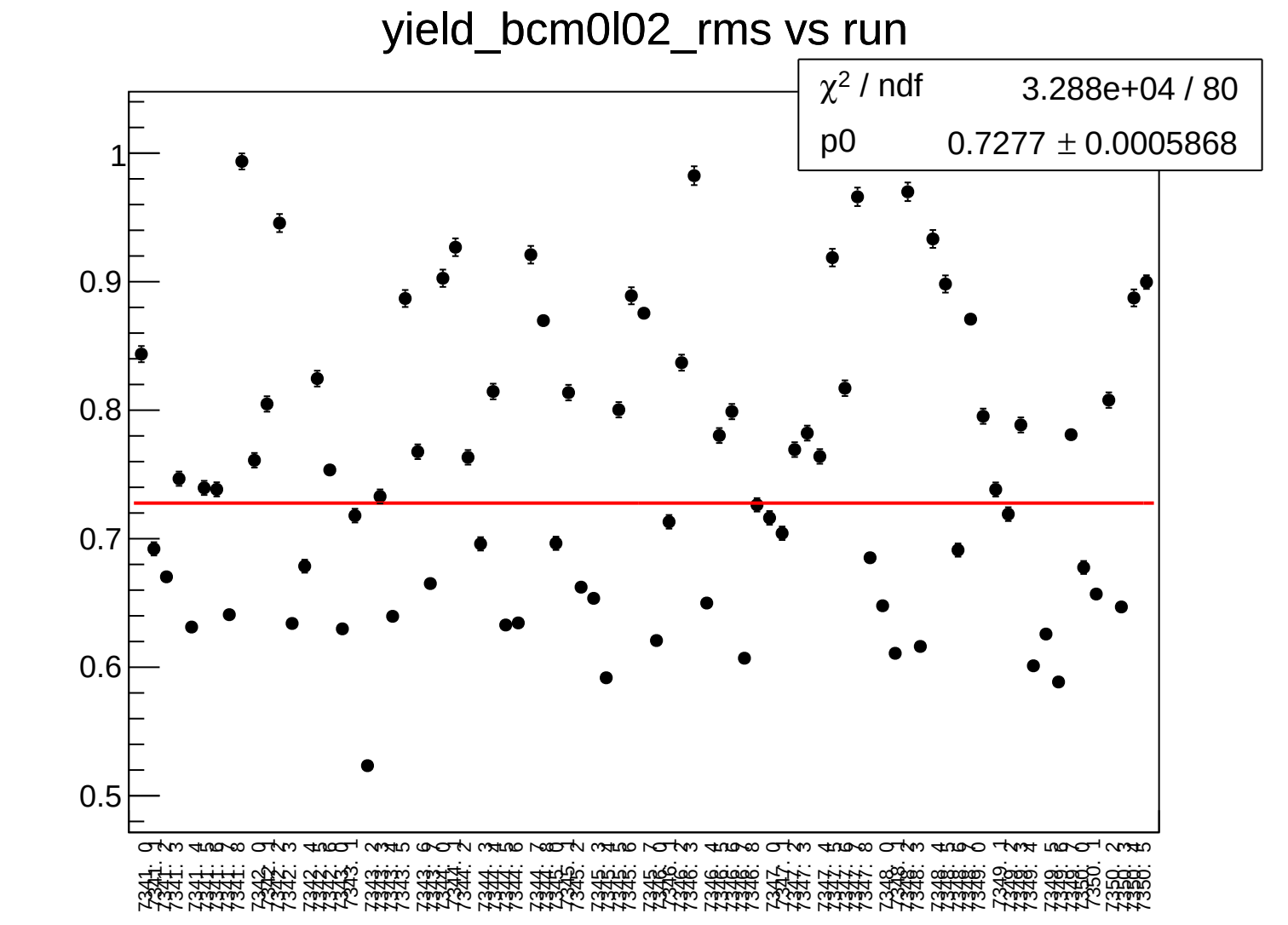

yield_cav4cQ_rms vs run
χ² / ndf 2.048e+04 / 80
p0 0.5227 ± 0.0004198
0.9
0.8
0.7
0.6
0.5
0.4

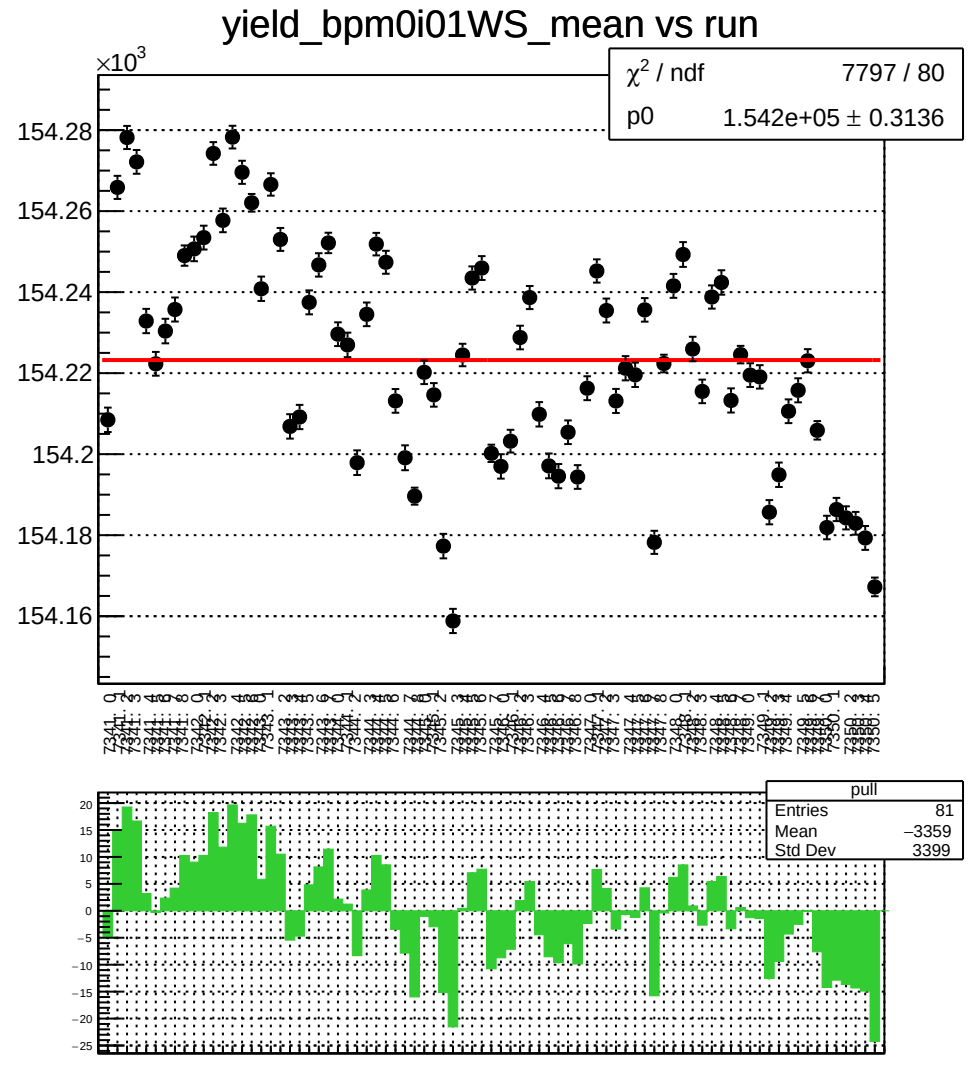

yield_cav4dQ_mean vs run
χ² / ndf 4.941e+05 / 80
p0 149 ± 0.0006885
150
149.5
149
148.5
148
pull
Entries 81
Mean −2614
Std Dev 2653
150
100
50
0
−50
−100
−150
pull1D
Entries 81
Mean −3.223
Std Dev 3.825
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

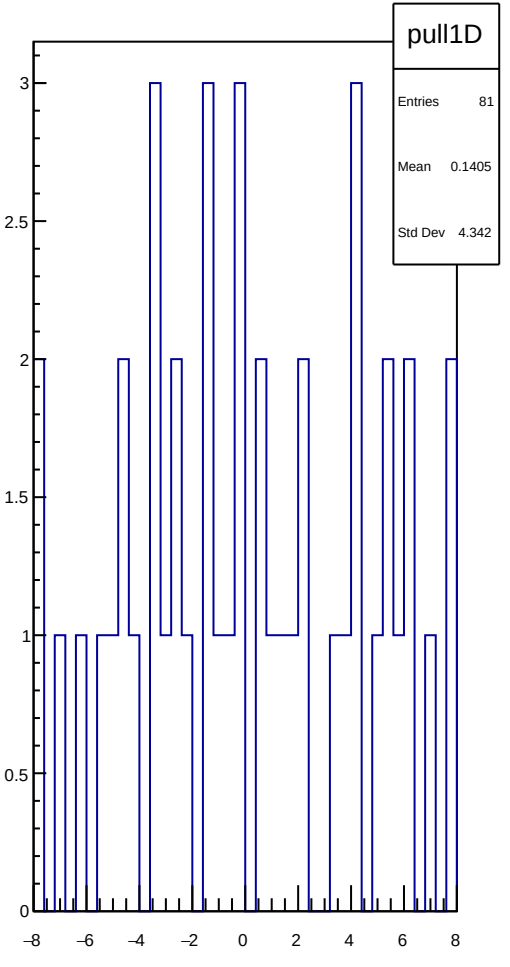

yield_cav4dQ_rms vs run
χ² / ndf 1.349e+04 / 80
p0 0.6076 ± 0.0004869
0.75
0.7
0.65
0.6
0.55
0.5

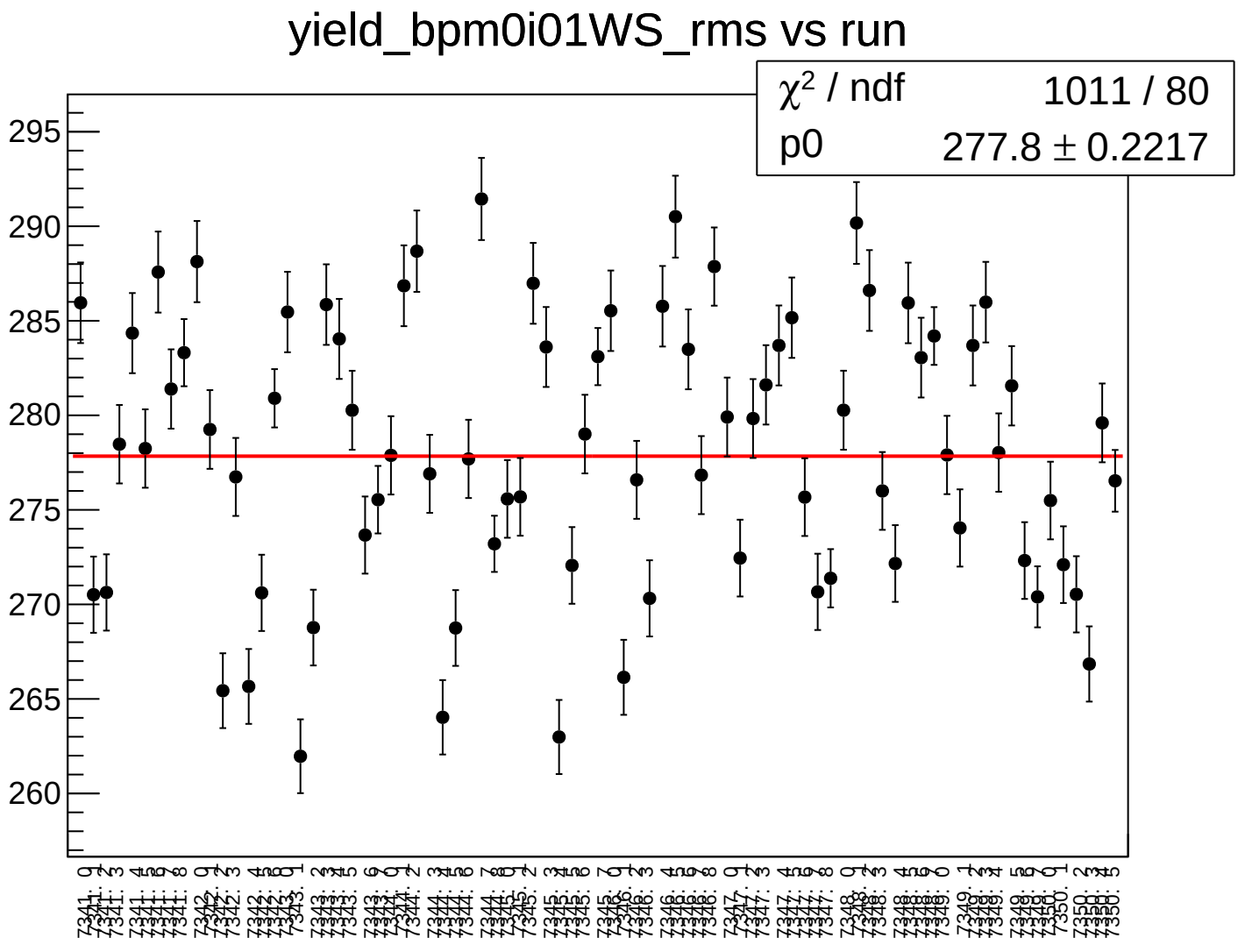

yield_bcm0l02_mean vs run
χ² / ndf 3.658e+05 / 80
p0 120.3 ± 0.0008298
121
120.5
120
119.5
119
118.5
118
pull
Entries 81
Mean 723.5
Std Dev 658.7
150
100
50
0
−50
−100
−150
−200
−250
−300

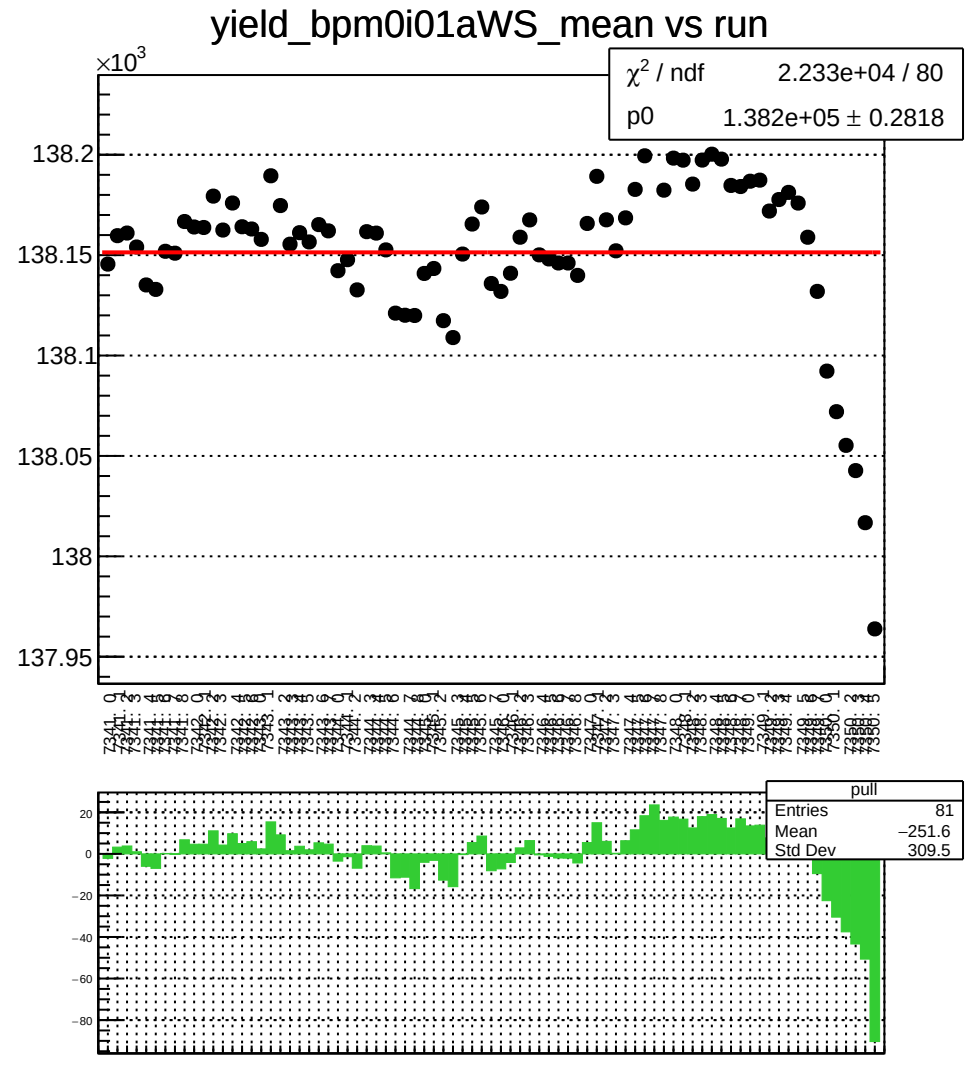

pull1D
Entries 81
Mean −1.255
Std Dev 5.06
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

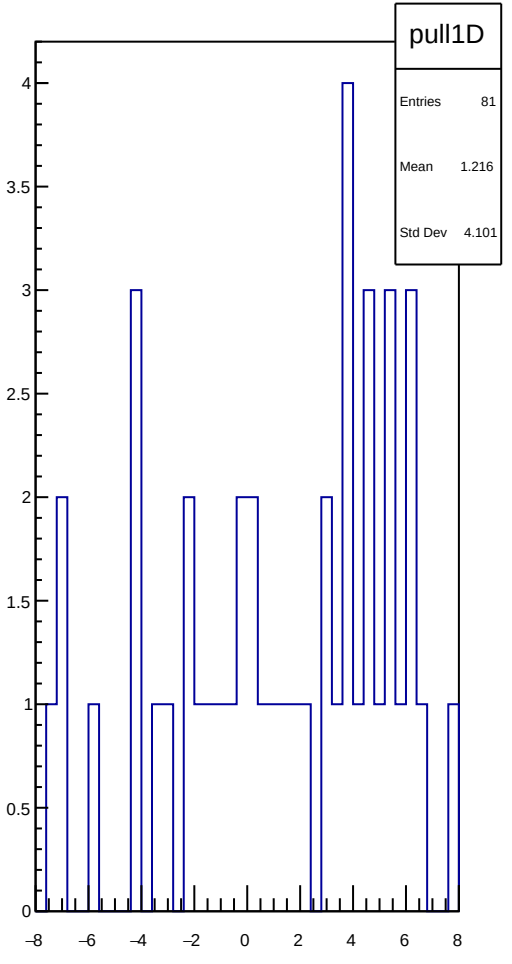

yield_bcm0l02_rms vs run
χ² / ndf 3.288e+04 / 80
p0 0.7277 ± 0.0005868
1
0.9
0.8
0.7
0.6
0.5

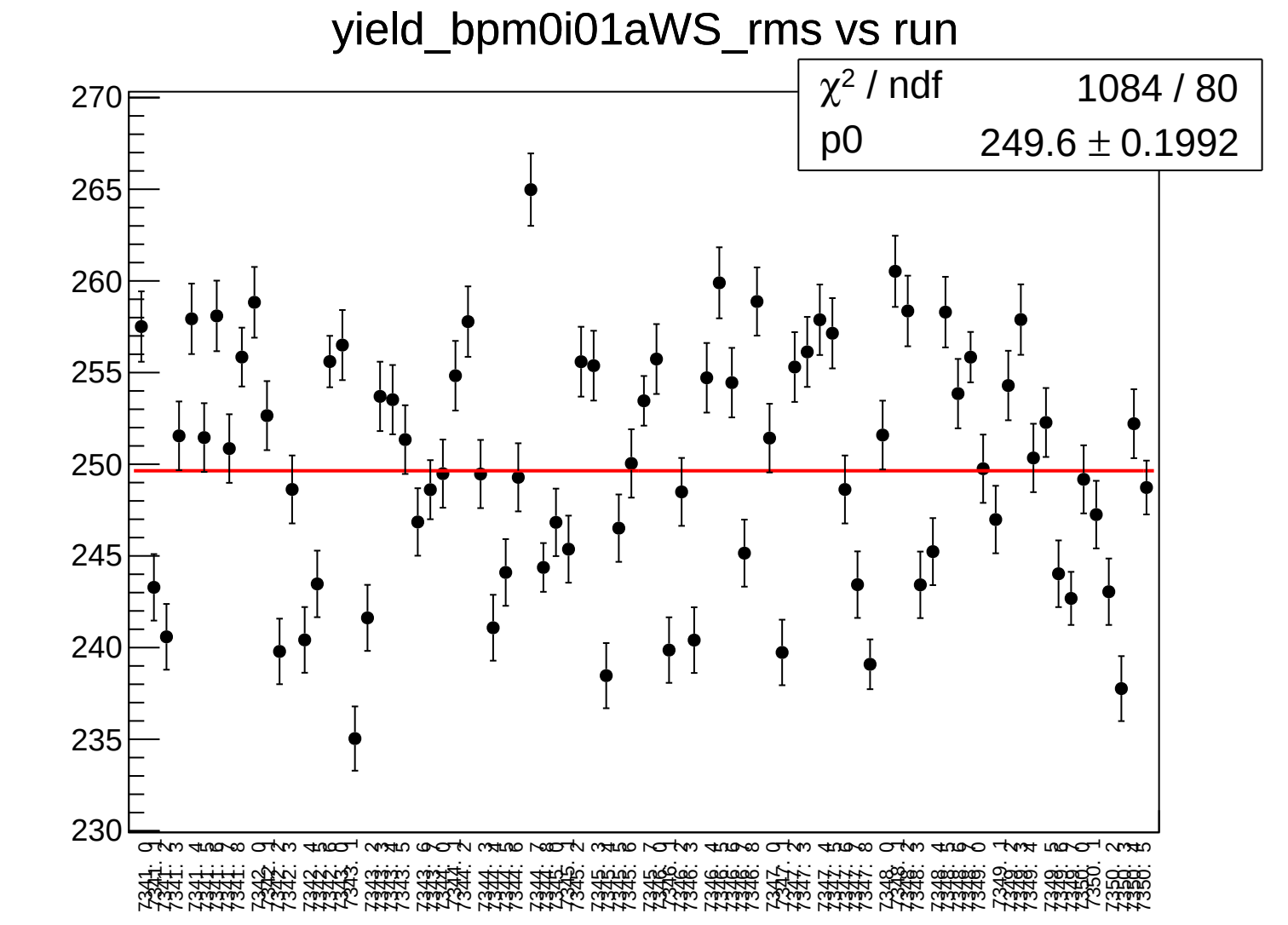

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 7797 / 80
p0 1.542e+05 ± 0.3136
154.28
154.26
154.24
154.22
154.2
154.18
154.16
pull
Entries 81
Mean −3359
Std Dev 3399
20
15
10
5
0
−5
−10
−15
−20
−25

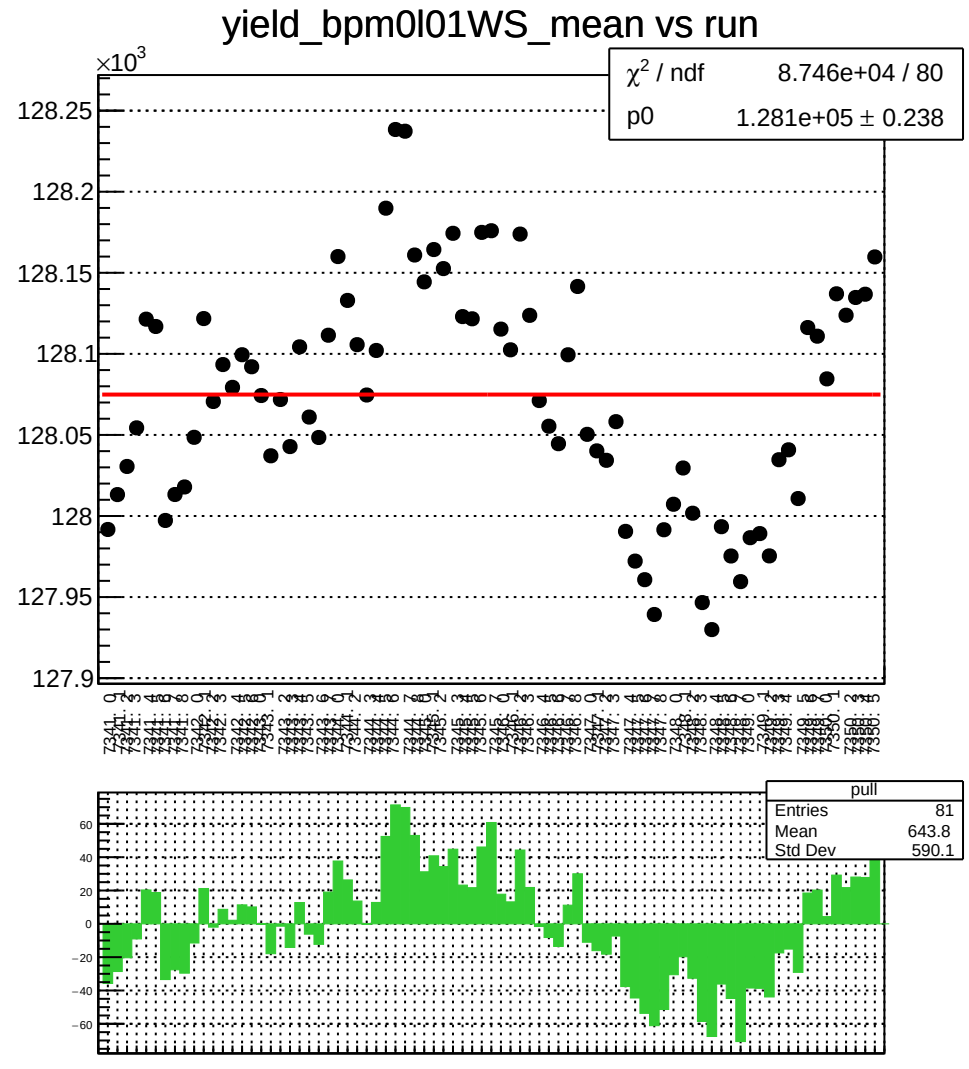

pull1D
Entries 81
Mean 0.1405
Std Dev 4.342
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

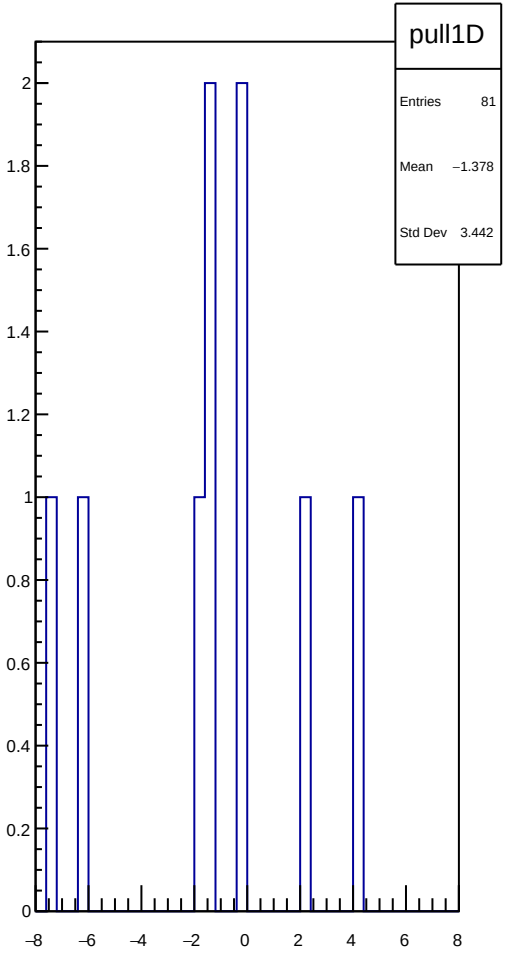

yield_bpm0i01WS_rms vs run
χ² / ndf 1011 / 80
p0 277.8 ± 0.2217
295
290
285
280
275
270
265
260

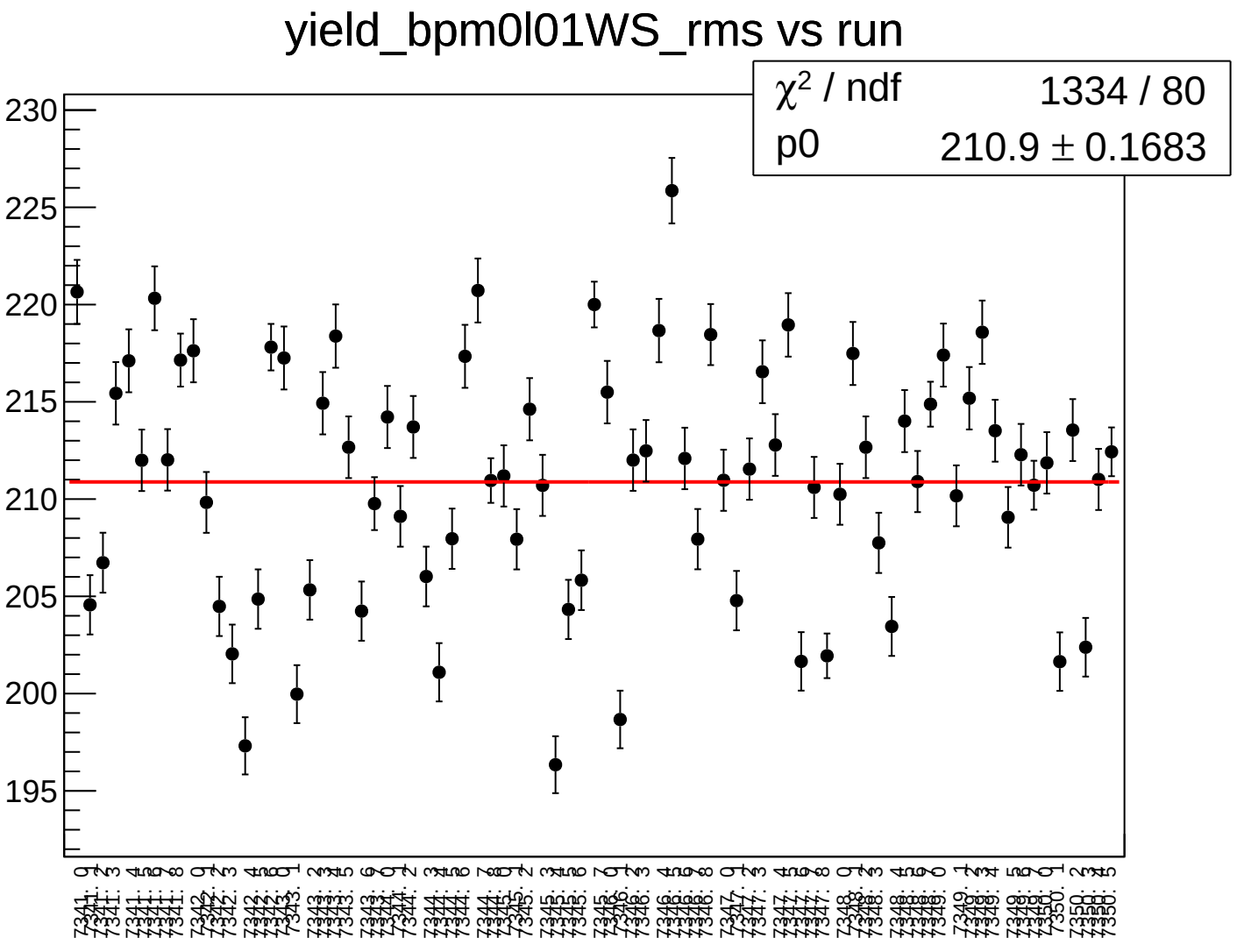

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 2.233e+04 / 80
p0 1.382e+05 ± 0.2818
138.2
138.15
138.1
138.05
138
137.95
pull
Entries 81
Mean −251.6
Std Dev 309.5
20
0
−20
−40
−60
−80

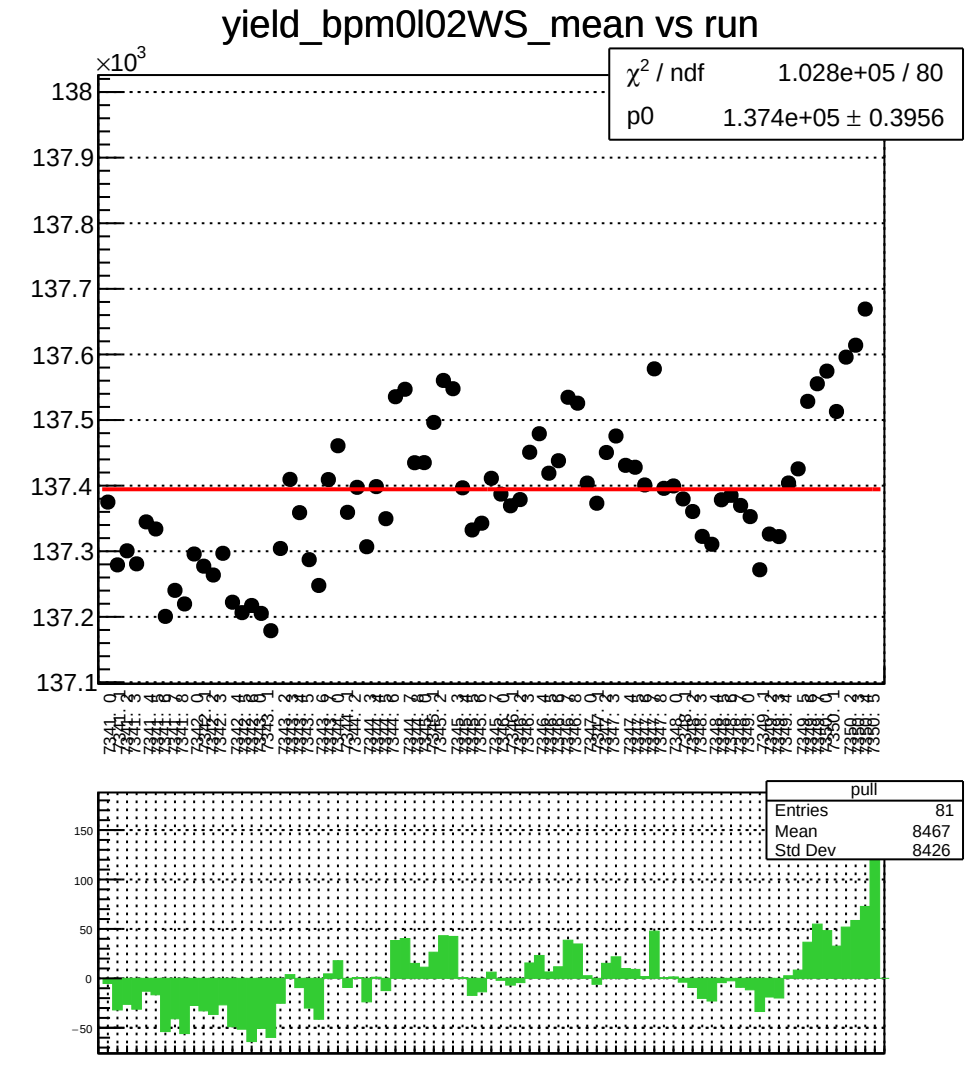

pull1D
Entries 81
Mean 1.216
Std Dev 4.101
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

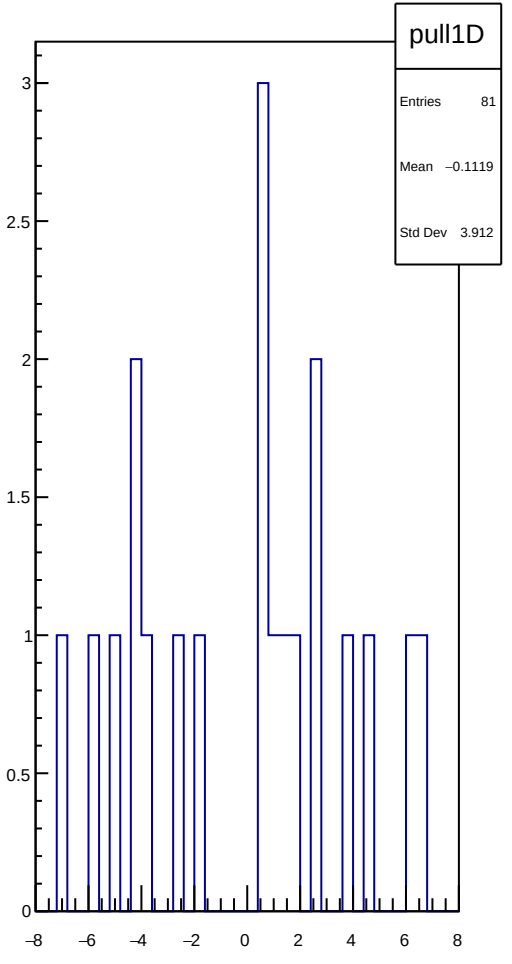

yield_bpm0i01aWS_rms vs run
χ² / ndf 1084 / 80
p0 249.6 ± 0.1992
270
265
260
255
250
245
240
235
230

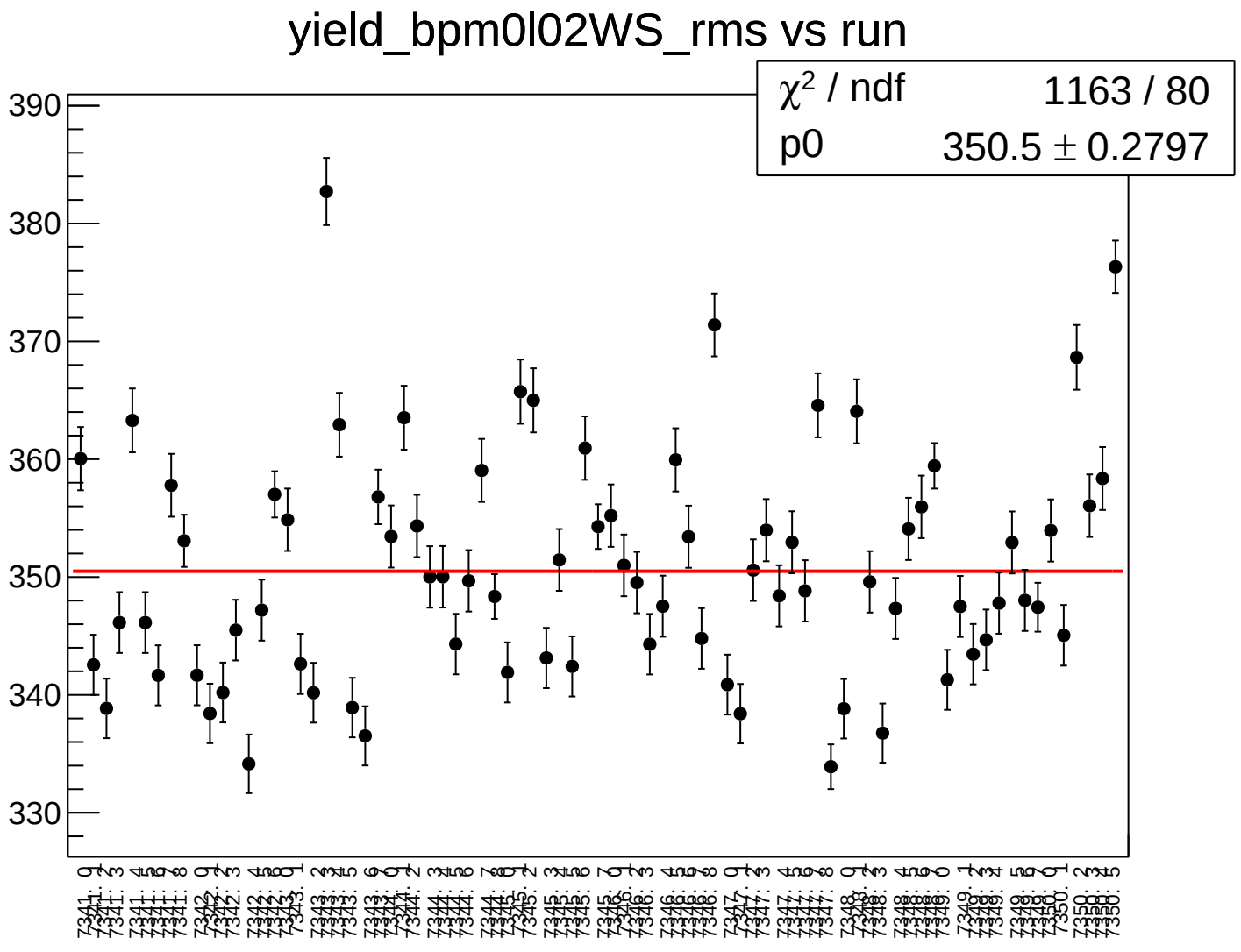

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 8.746e+04 / 80
p0 1.281e+05 ± 0.238
128.25
128.2
128.15
128.1
128.05
128
127.95
127.9
pull
Entries 81
Mean 643.8
Std Dev 590.1
60
40
20
0
−20
−40
−60

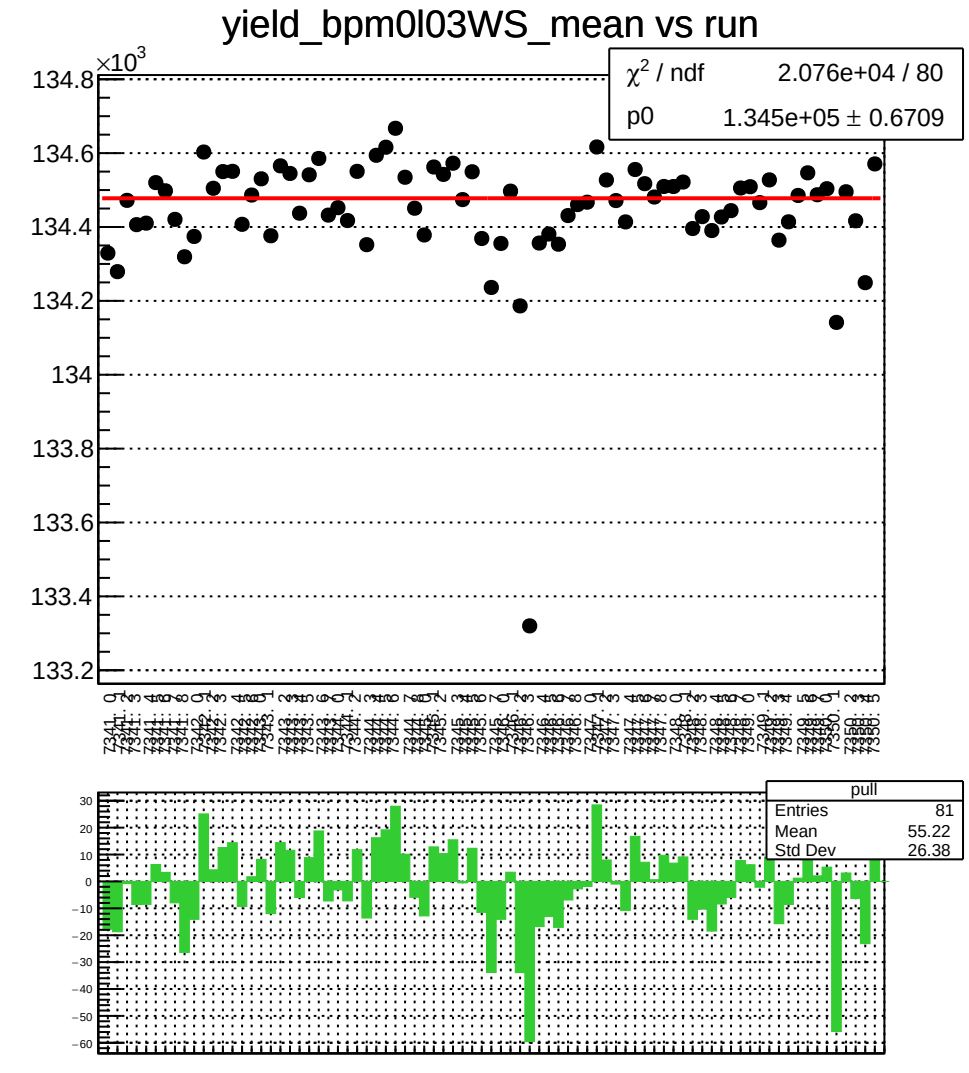

pull1D
Entries 81
Mean −1.378
Std Dev 3.442
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

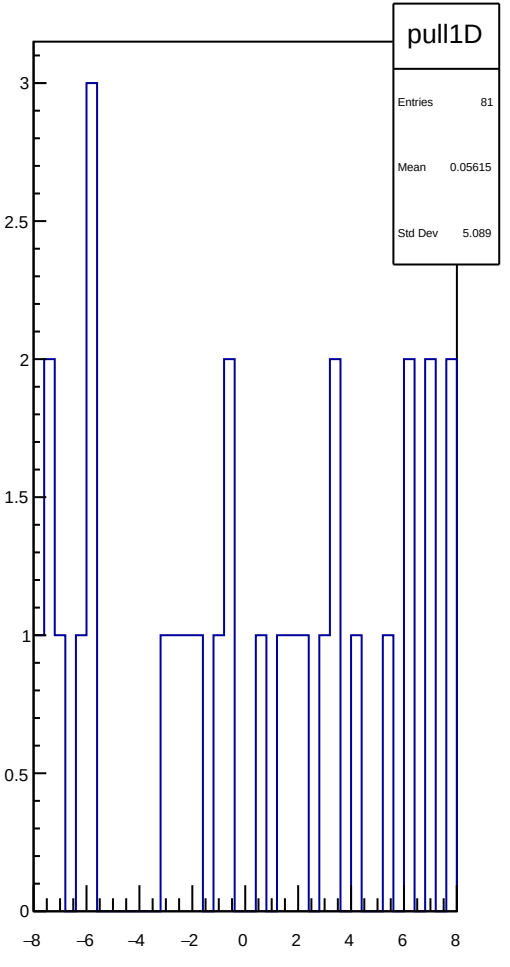

yield_bpm0l01WS_rms vs run
χ² / ndf 1334 / 80
p0 210.9 ± 0.1683
230
225
220
215
210
205
200
195

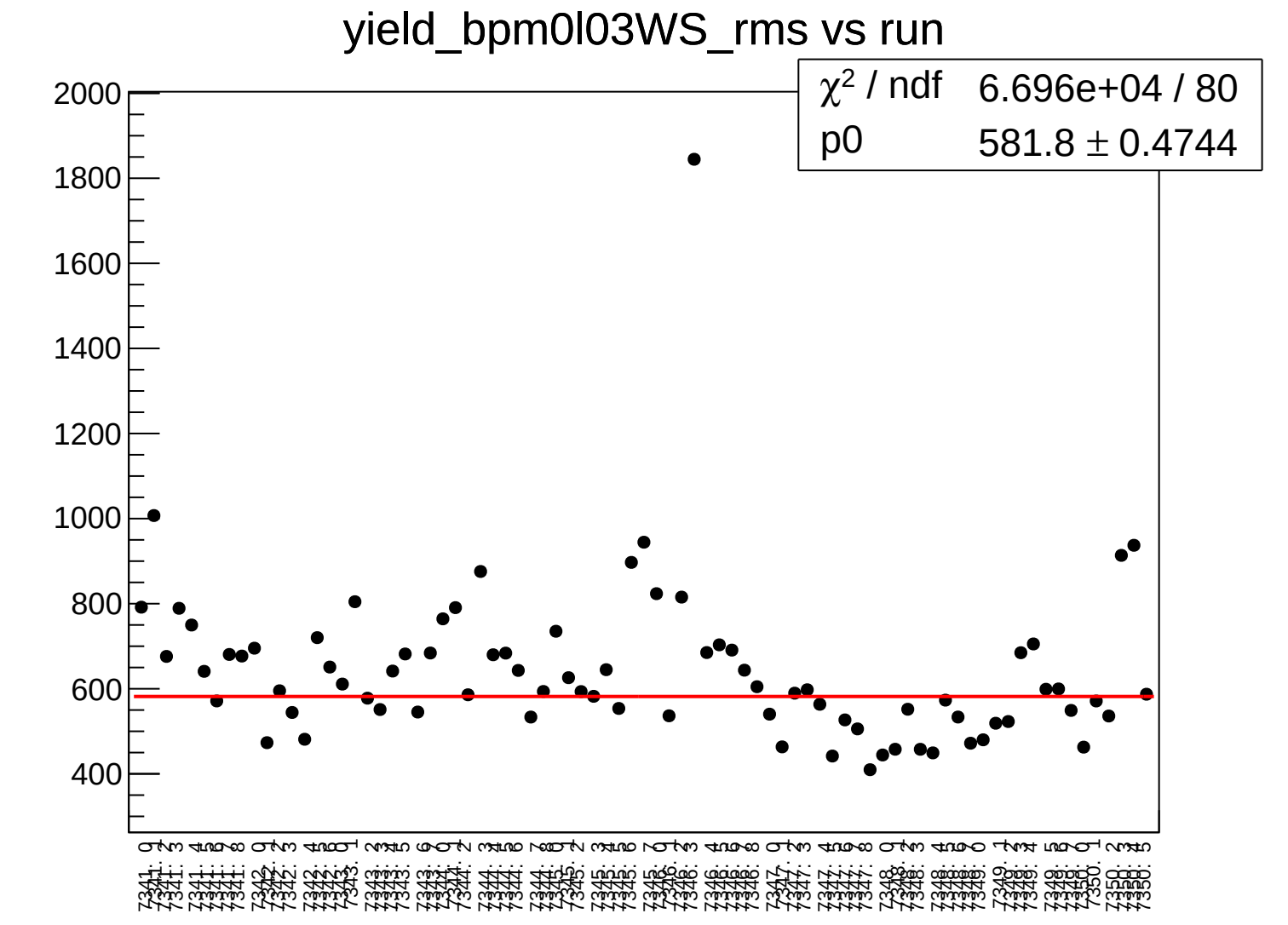

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.028e+05 / 80
p0 1.374e+05 ± 0.3956
138
137.9
137.8
137.7
137.6
137.5
137.4
137.3
137.2
137.1
pull
Entries 81
Mean 8467
Std Dev 8426
150
100
50
0
−50

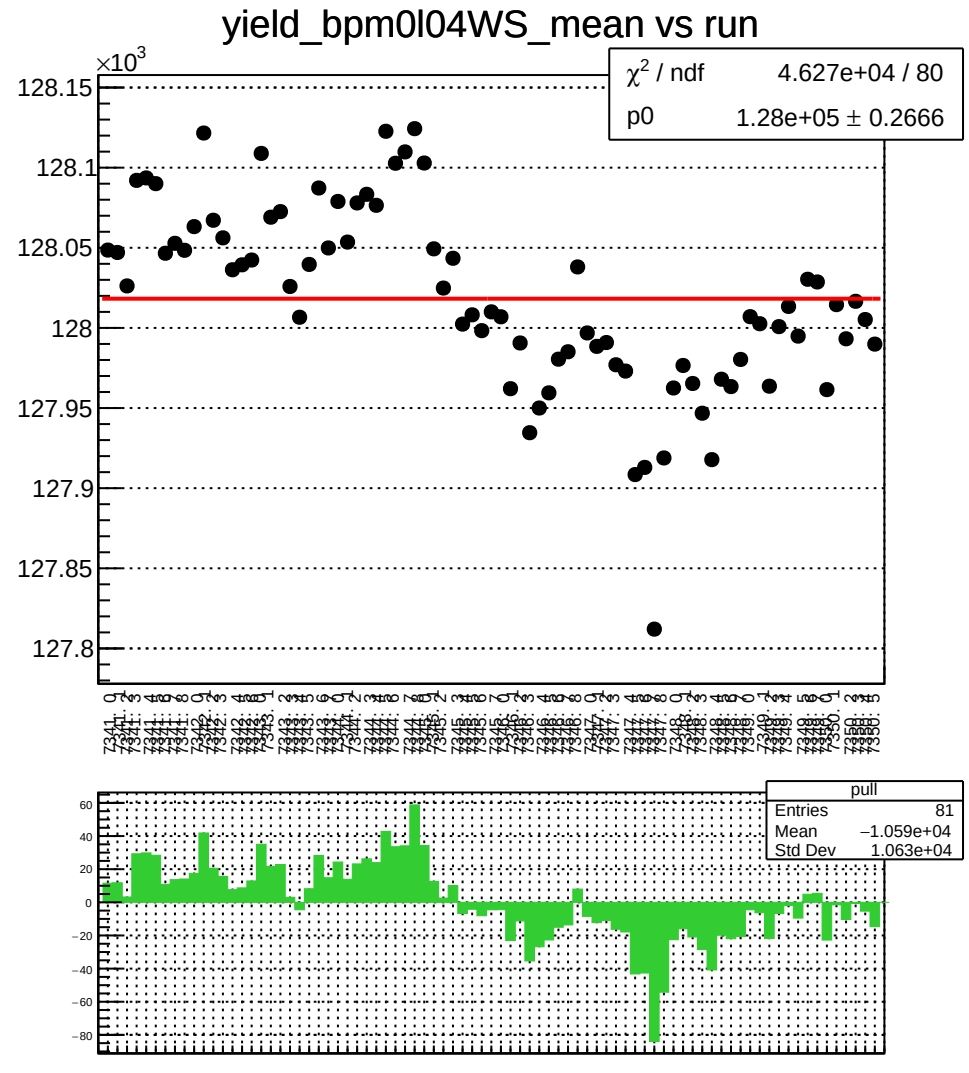

pull1D
Entries 81
Mean −0.1119
Std Dev 3.912
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

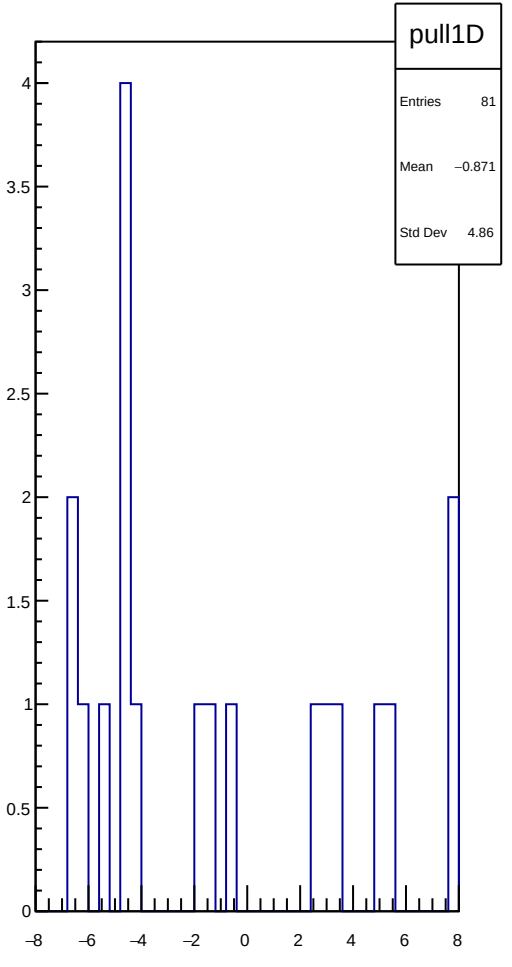

yield_bpm0l02WS_rms vs run
χ² / ndf 1163 / 80
p0 350.5 ± 0.2797
390
380
370
360
350
340
330

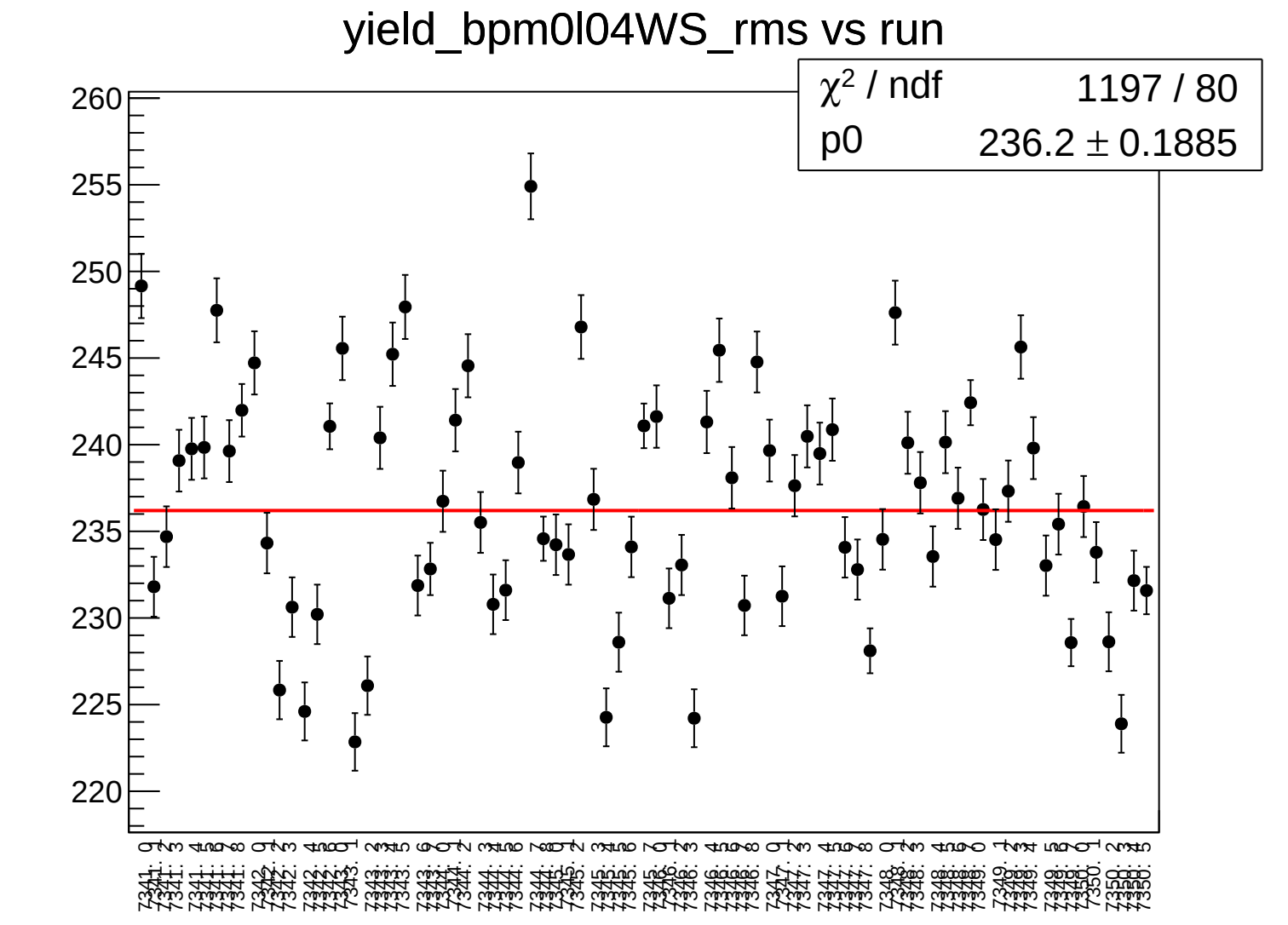

yield_bpm0l03WS_mean vs run
χ² / ndf 2.076e+04 / 80
p0 1.345e+05 ± 0.6709
×10³
134.8
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
pull
Entries 81
Mean 55.22
Std Dev 26.38
30
20
10
0
−10
−20
−30
−40
−50
−60

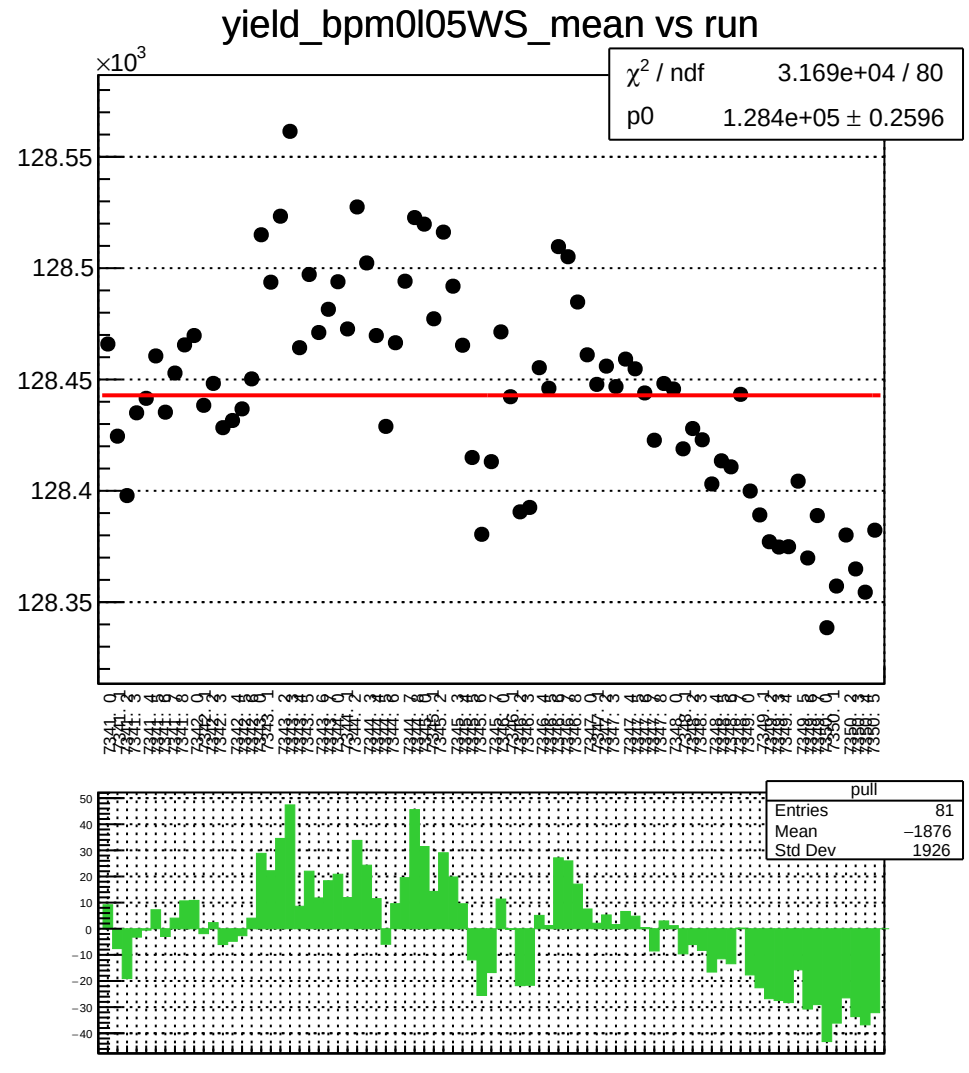

pull1D
Entries 81
Mean 0.05615
Std Dev 5.089
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

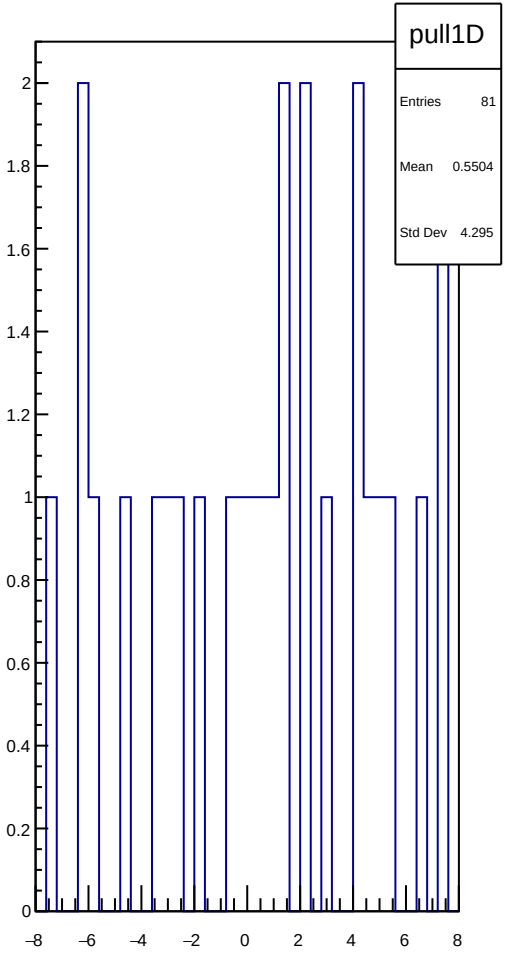

yield_bpm0l03WS_rms vs run
χ² / ndf 6.696e+04 / 80
p0 581.8 ± 0.4744
2000
1800
1600
1400
1200
1000
800
600
400

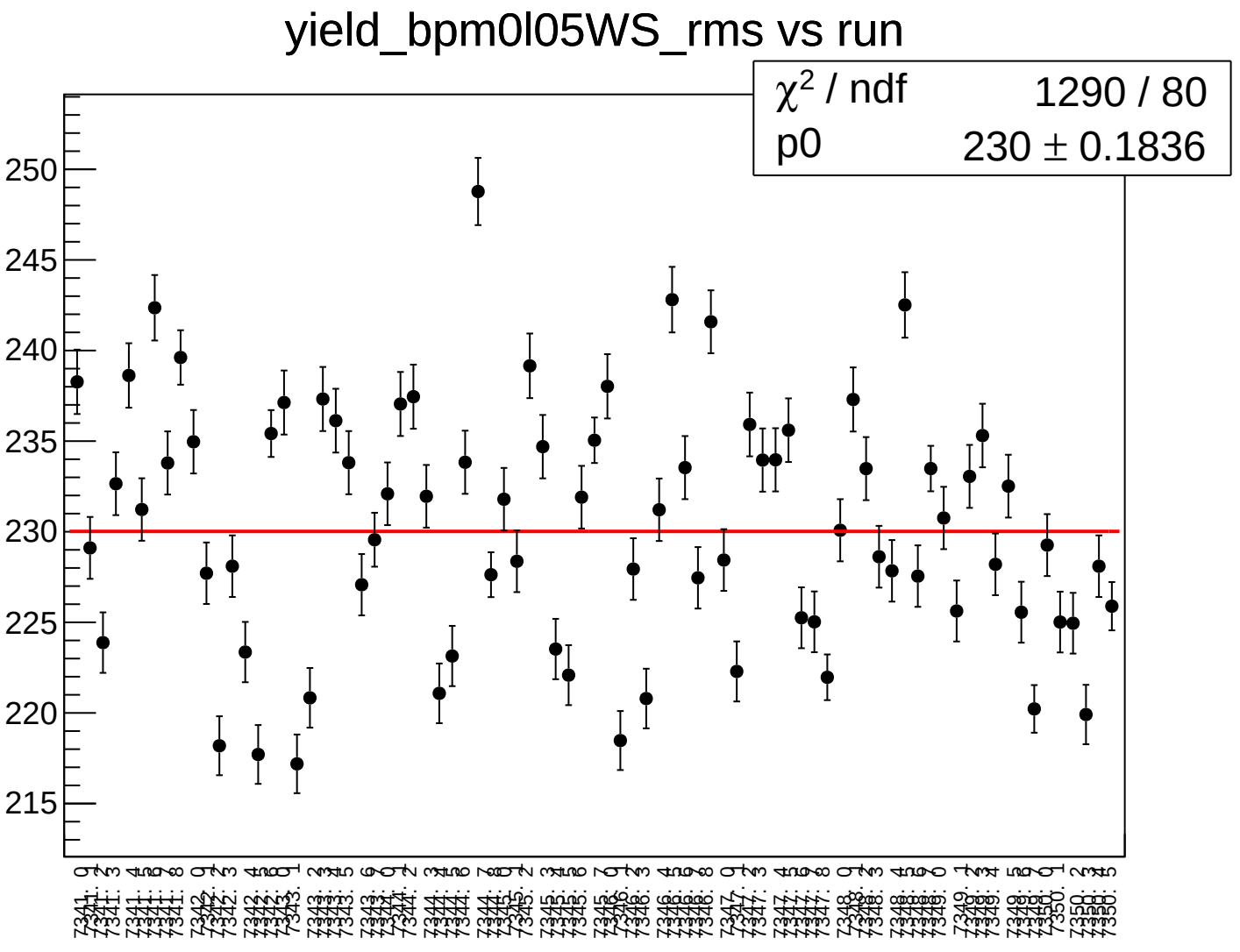

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.627e+04 / 80
p0 1.28e+05 ± 0.2666
128.15
128.1
128.05
128
127.95
127.9
127.85
127.8
pull
Entries 81
Mean −1.059e+04
Std Dev 1.063e+04
60
40
20
0
−20
−40
−60
−80

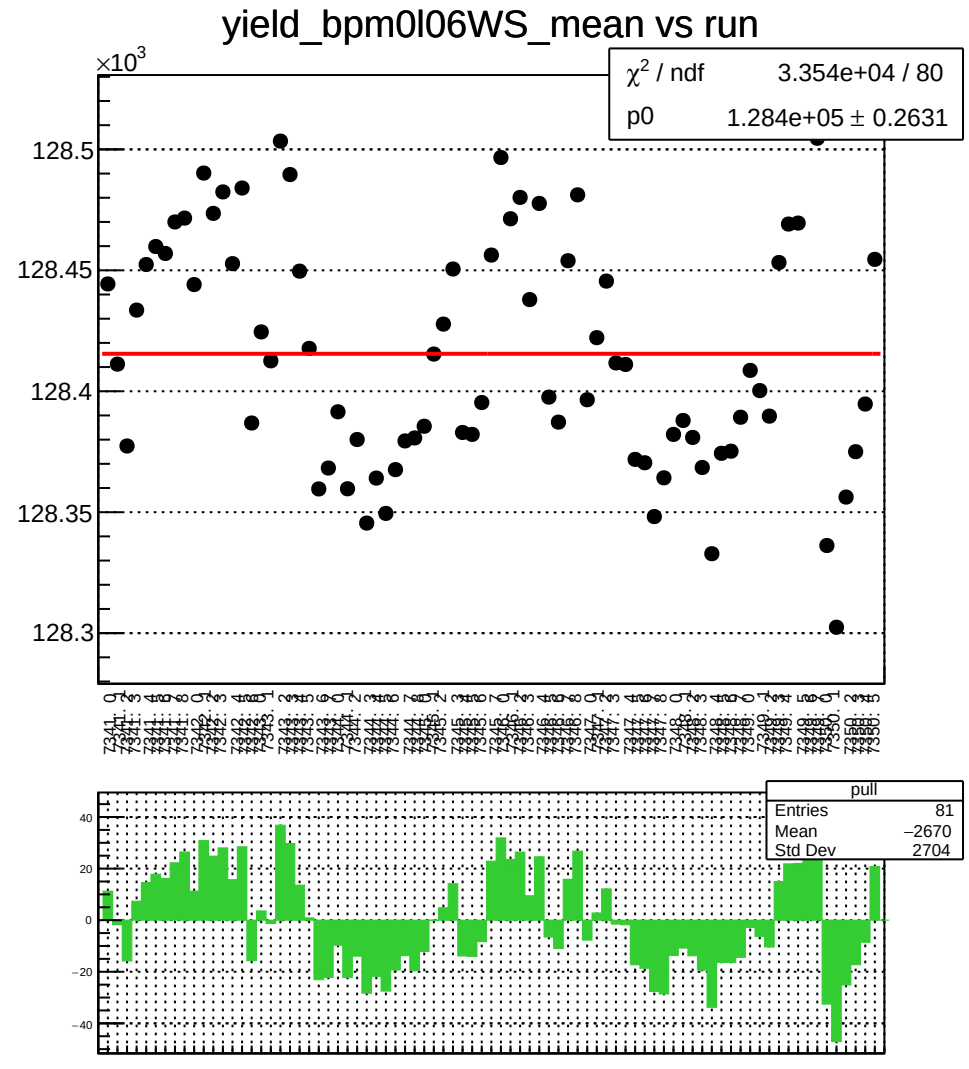

pull1D
Entries 81
Mean −0.871
Std Dev 4.86
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

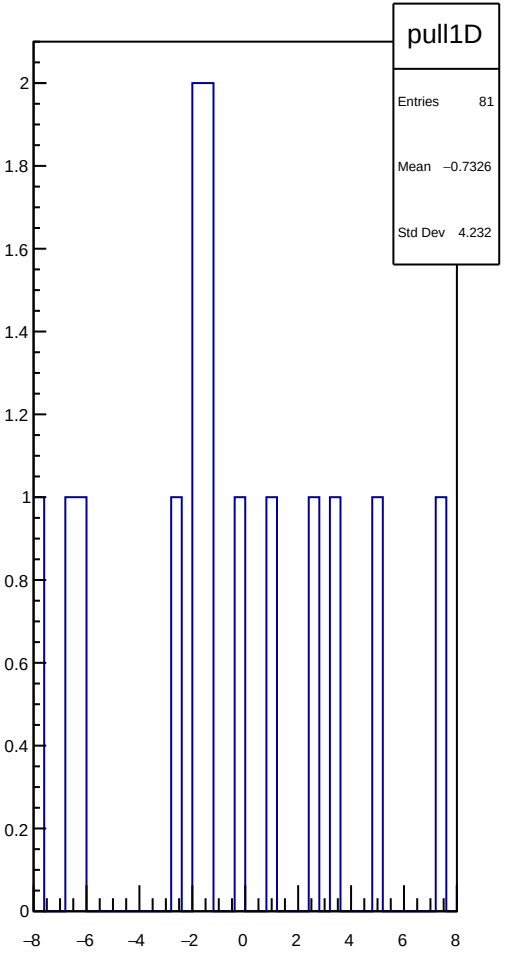

yield_bpm0l04WS_rms vs run
χ² / ndf 1197 / 80
p0 236.2 ± 0.1885
260
255
250
245
240
235
230
225
220

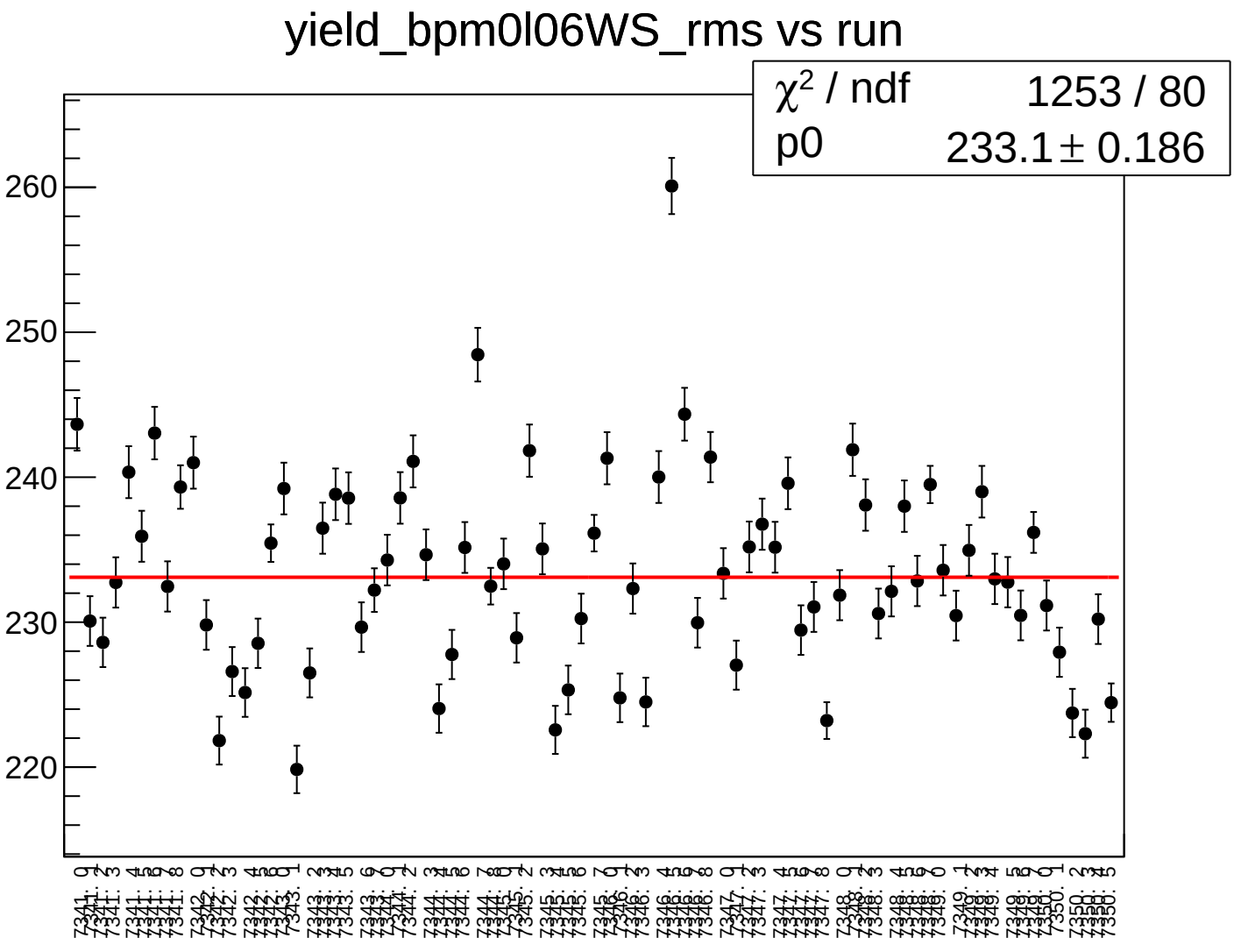

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 3.169e+04 / 80
p0 1.284e+05 ± 0.2596
128.55
128.5
128.45
128.4
128.35
pull
Entries 81
Mean −1876
Std Dev 1926
50
40
30
20
10
0
−10
−20
−30
−40

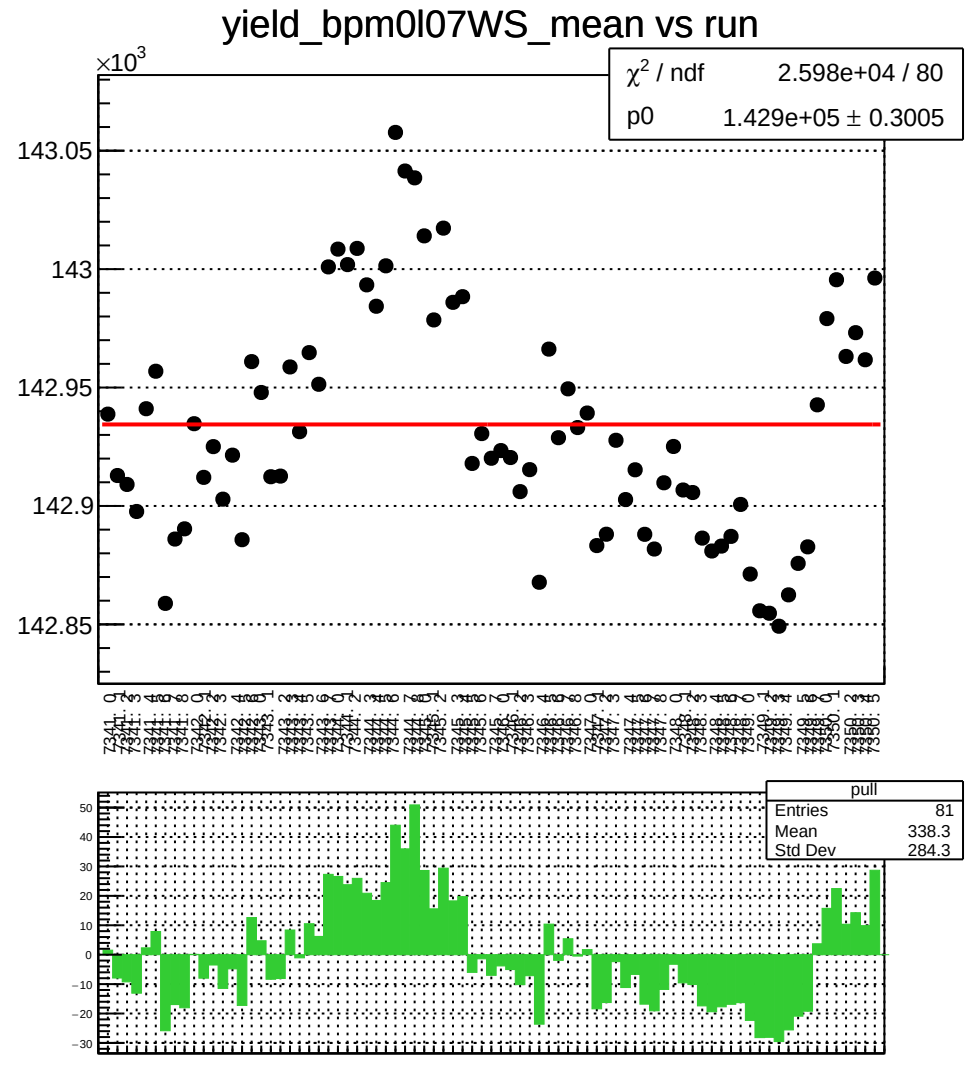

pull1D
Entries 81
Mean 0.5504
Std Dev 4.295
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

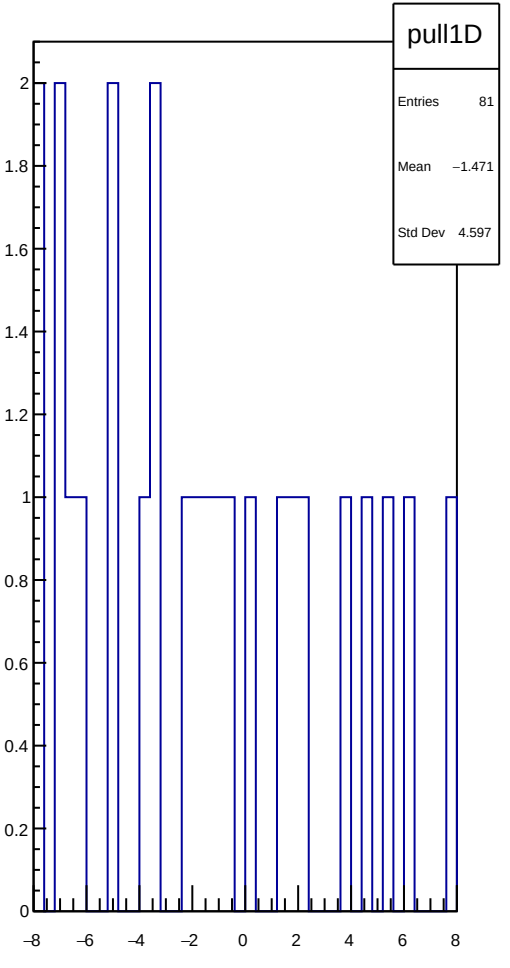

yield_bpm0l05WS_rms vs run
χ² / ndf 1290 / 80
p0 230 ± 0.1836
250
245
240
235
230
225
220
215

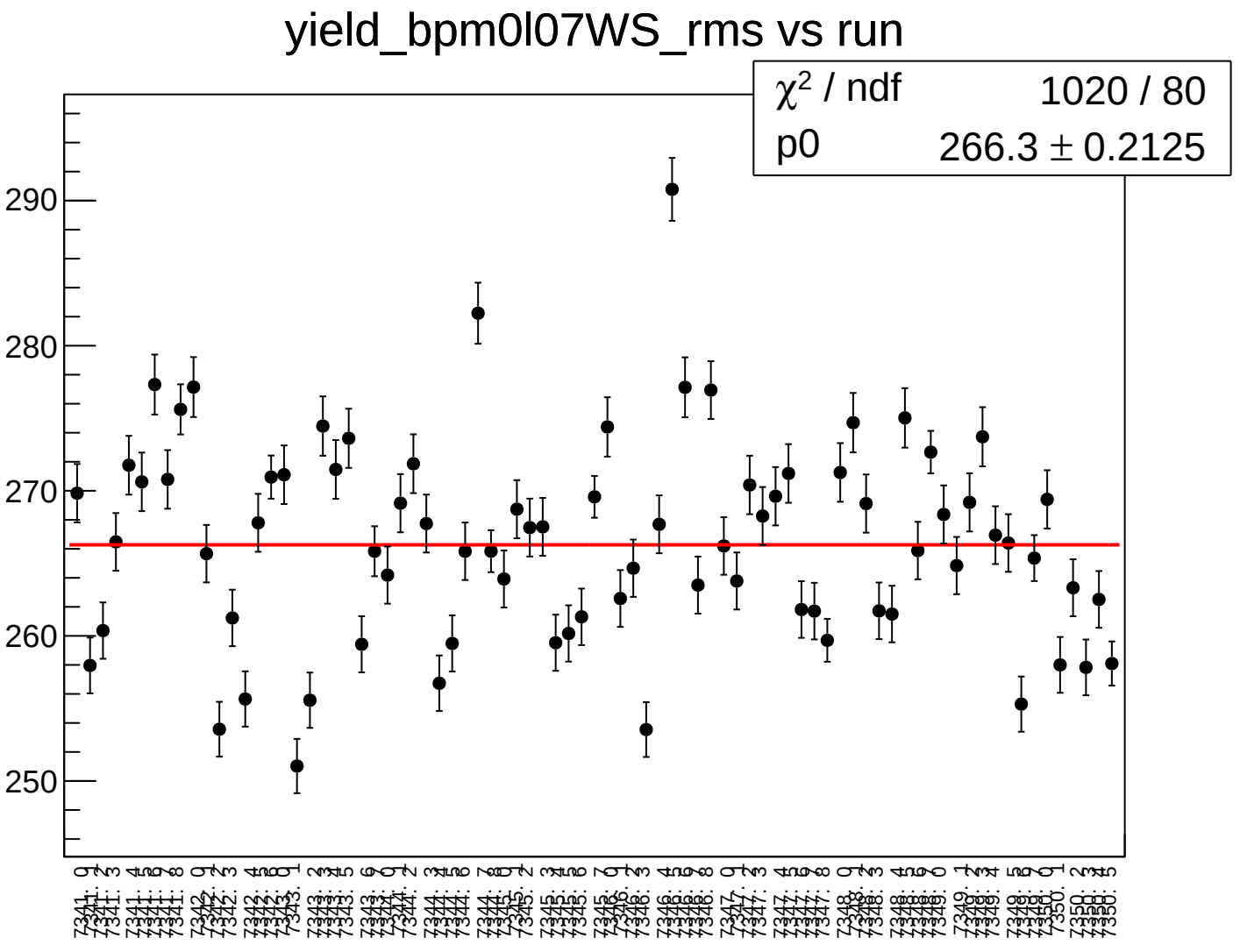

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 3.354e+04 / 80
p0 1.284e+05 ± 0.2631
128.5
128.45
128.4
128.35
128.3
pull
Entries 81
Mean −2670
Std Dev 2704
40
20
0
−20
−40

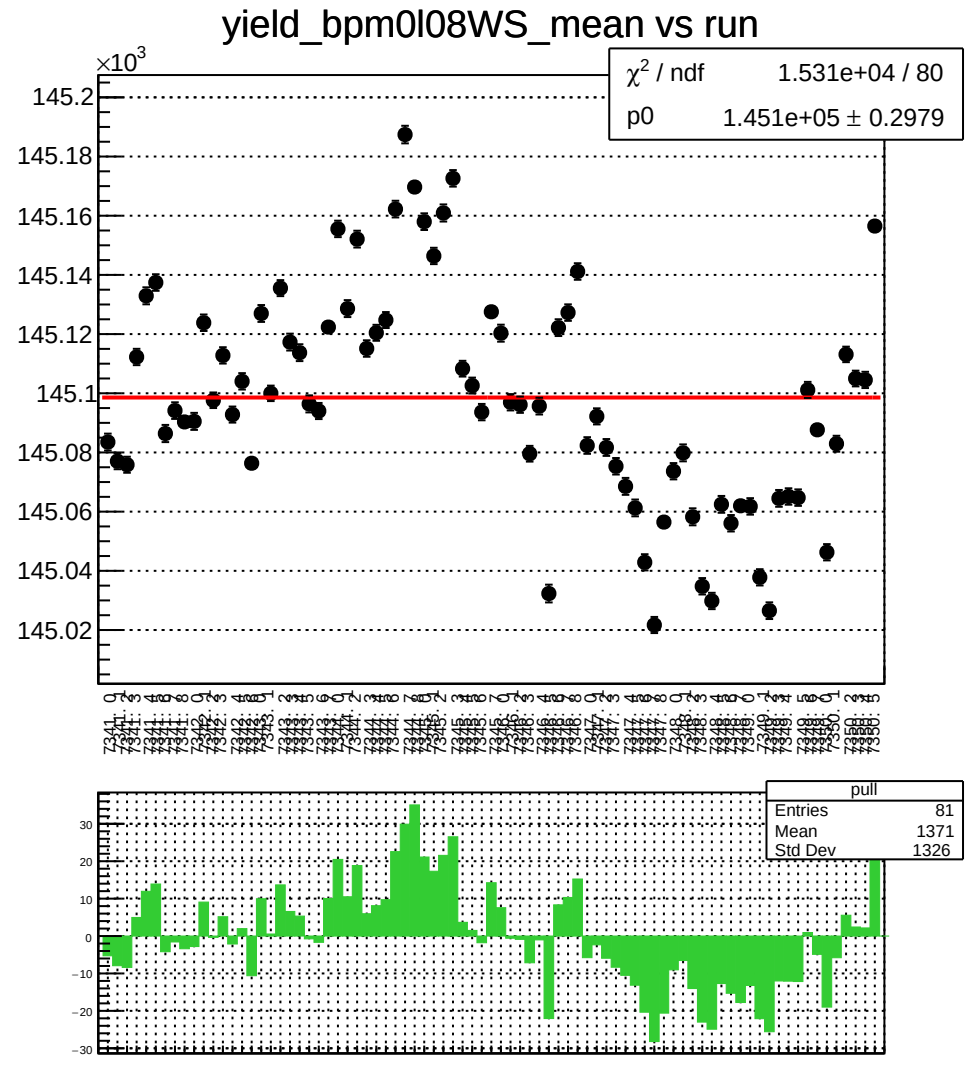

pull1D
Entries 81
Mean −0.7326
Std Dev 4.232
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

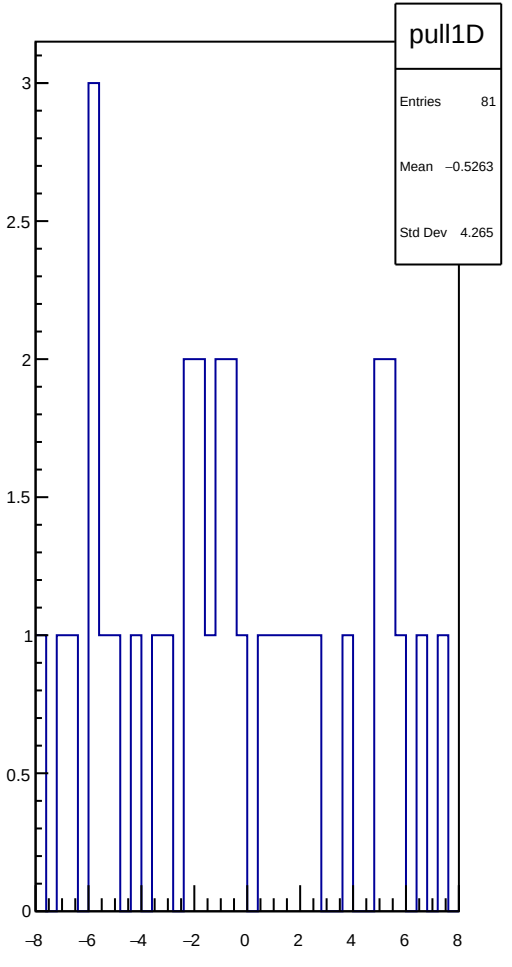

yield_bpm0l06WS_rms vs run
χ² / ndf 1253 / 80
p0 233.1 ± 0.186
260
250
240
230
220

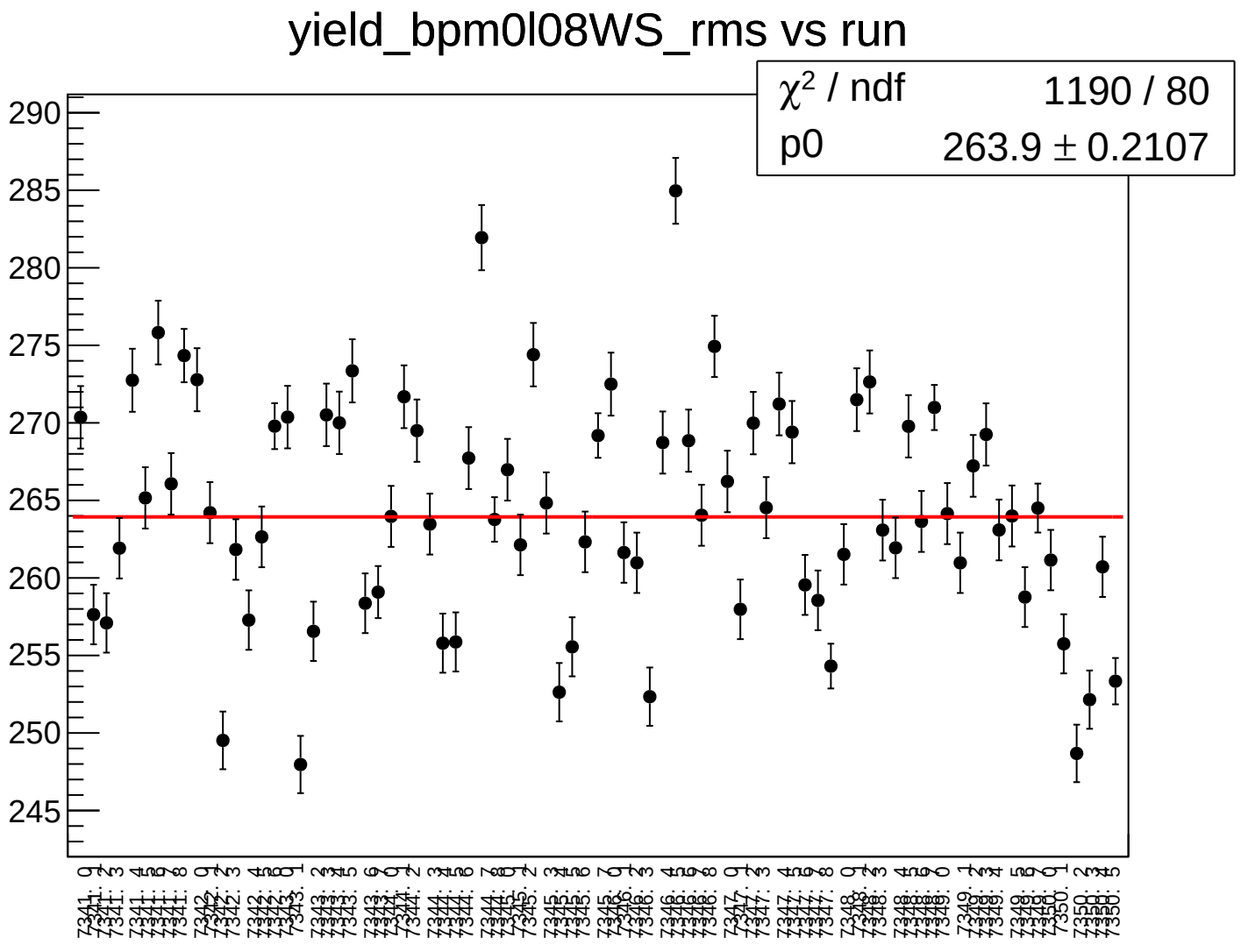

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 2.598e+04 / 80
p0 1.429e+05 ± 0.3005
143.05
143
142.95
142.9
142.85
pull
Entries 81
Mean 338.3
Std Dev 284.3
50
40
30
20
10
0
−10
−20
−30

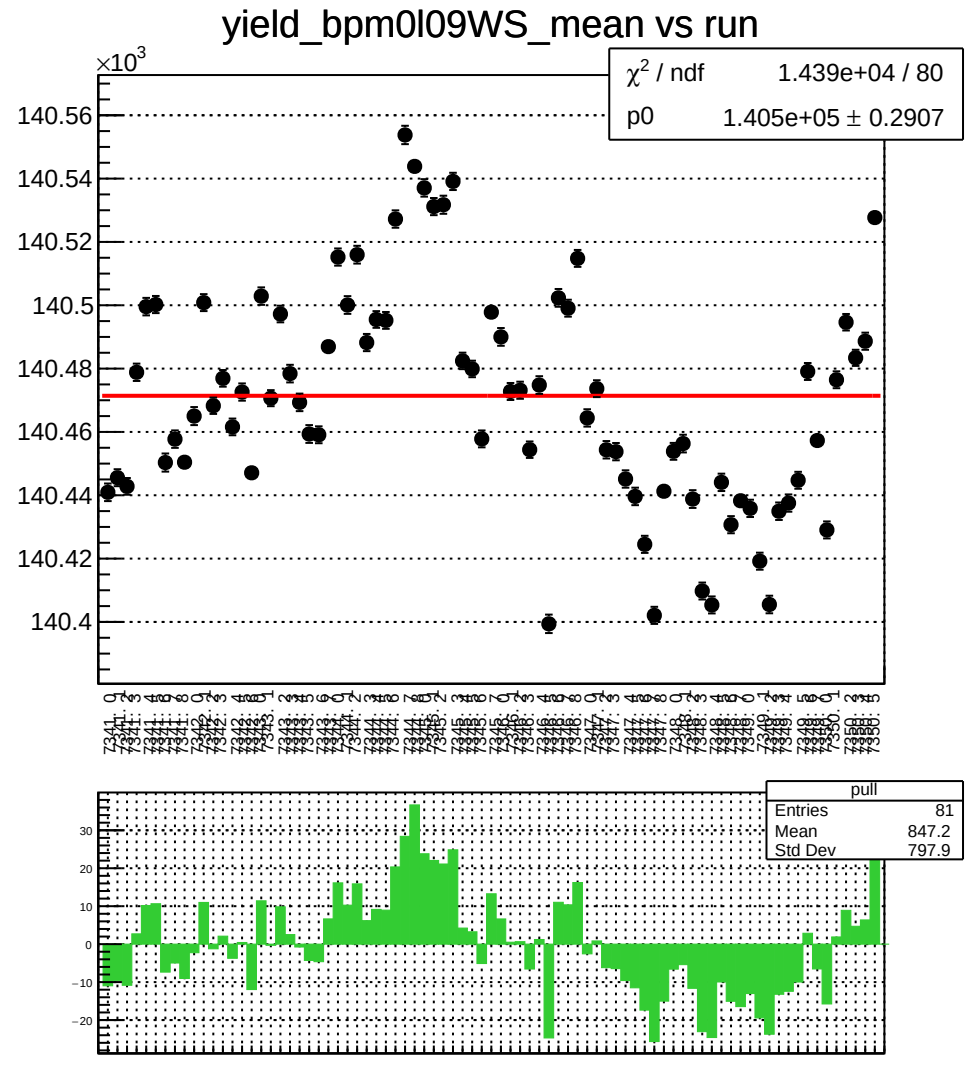

pull1D
Entries 81
Mean −1.471
Std Dev 4.597
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

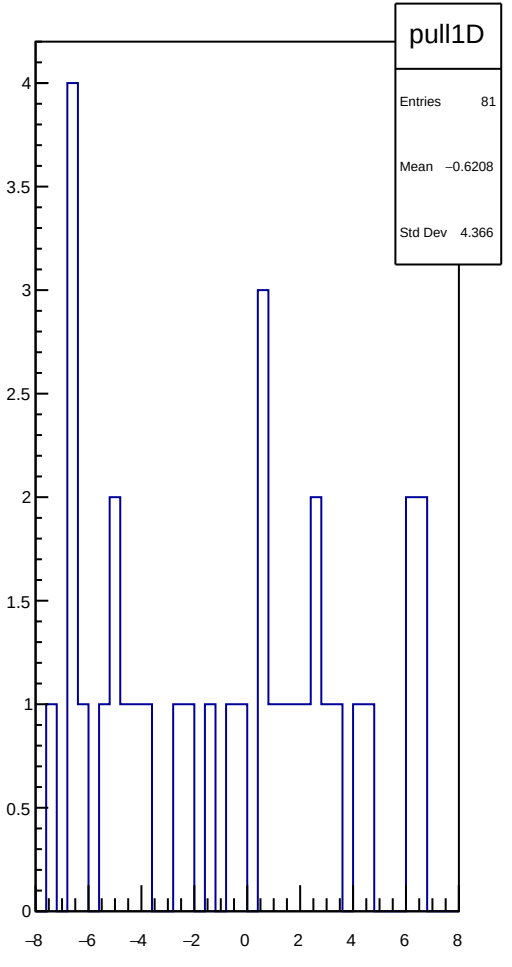

yield_bpm0l07WS_rms vs run
χ² / ndf 1020 / 80
p0 266.3 ± 0.2125
290
280
270
260
250

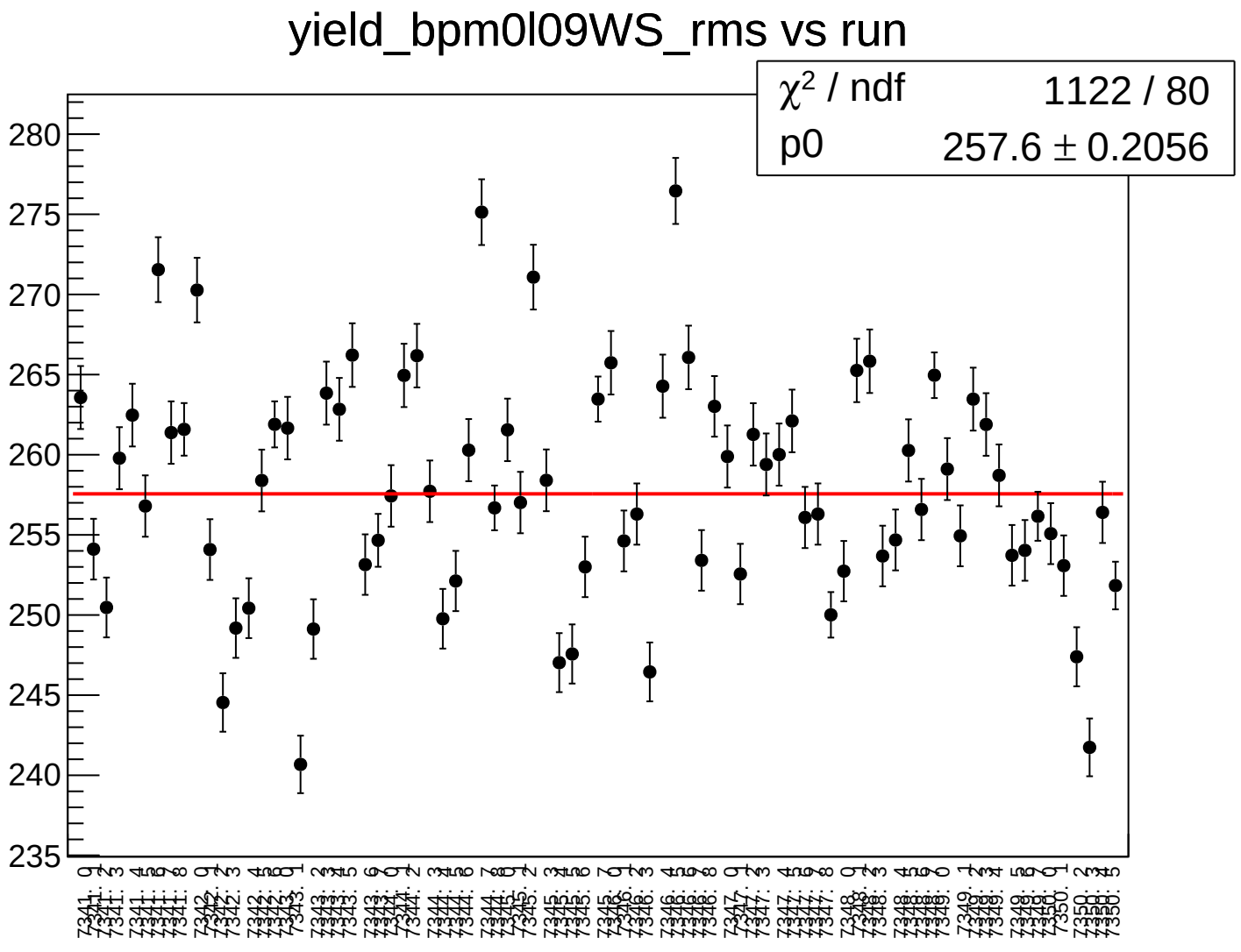

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 1.531e+04 / 80
p0 1.451e+05 ± 0.2979
145.2
145.18
145.16
145.14
145.12
145.1
145.08
145.06
145.04
145.02
pull
Entries 81
Mean 1371
Std Dev 1326
30
20
10
0
−10
−20
−30

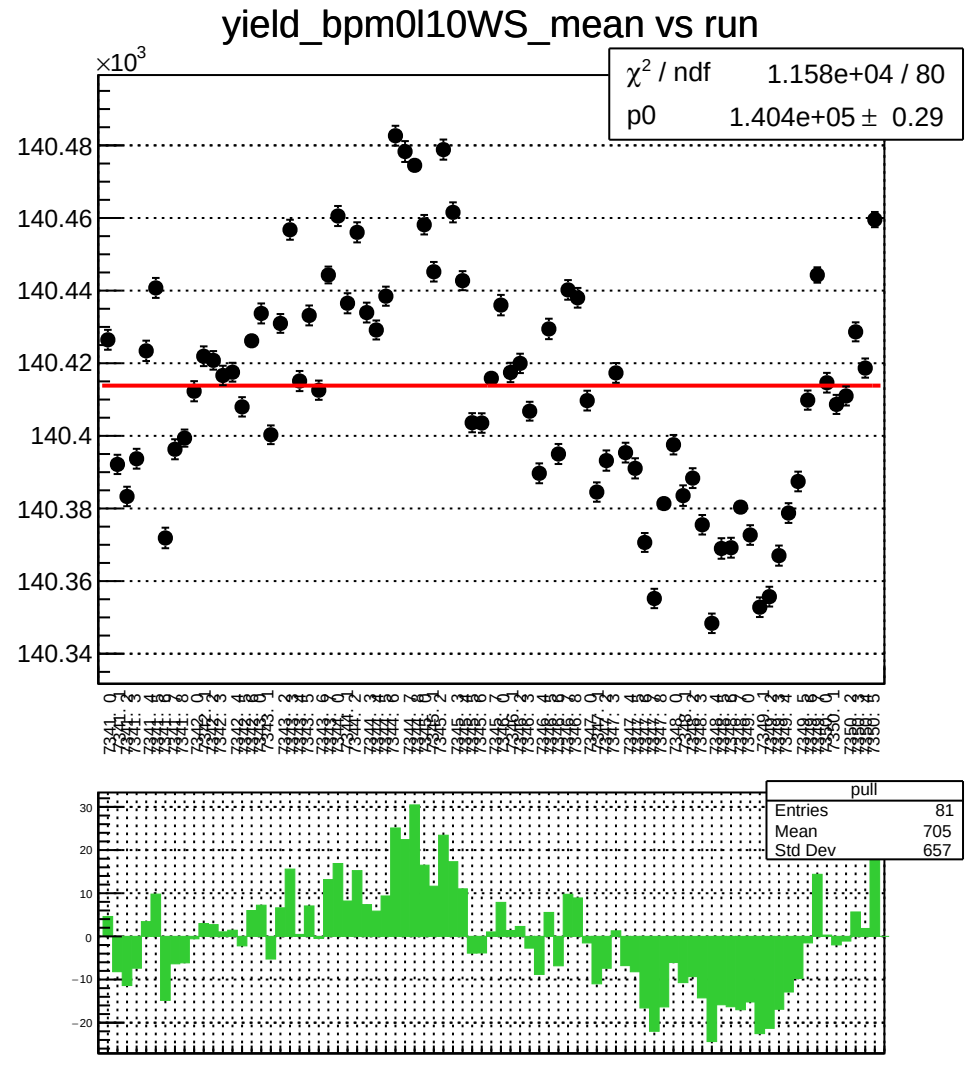

pull1D
Entries 81
Mean −0.5263
Std Dev 4.265
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

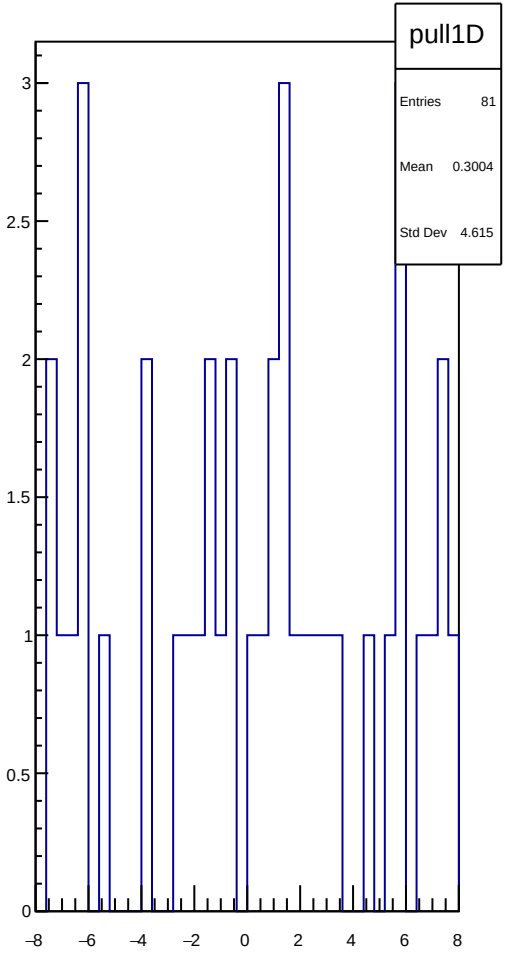

yield_bpm0l08WS_rms vs run
χ² / ndf 1190 / 80
p0 263.9 ± 0.2107
290
285
280
275
270
265
260
255
250
245

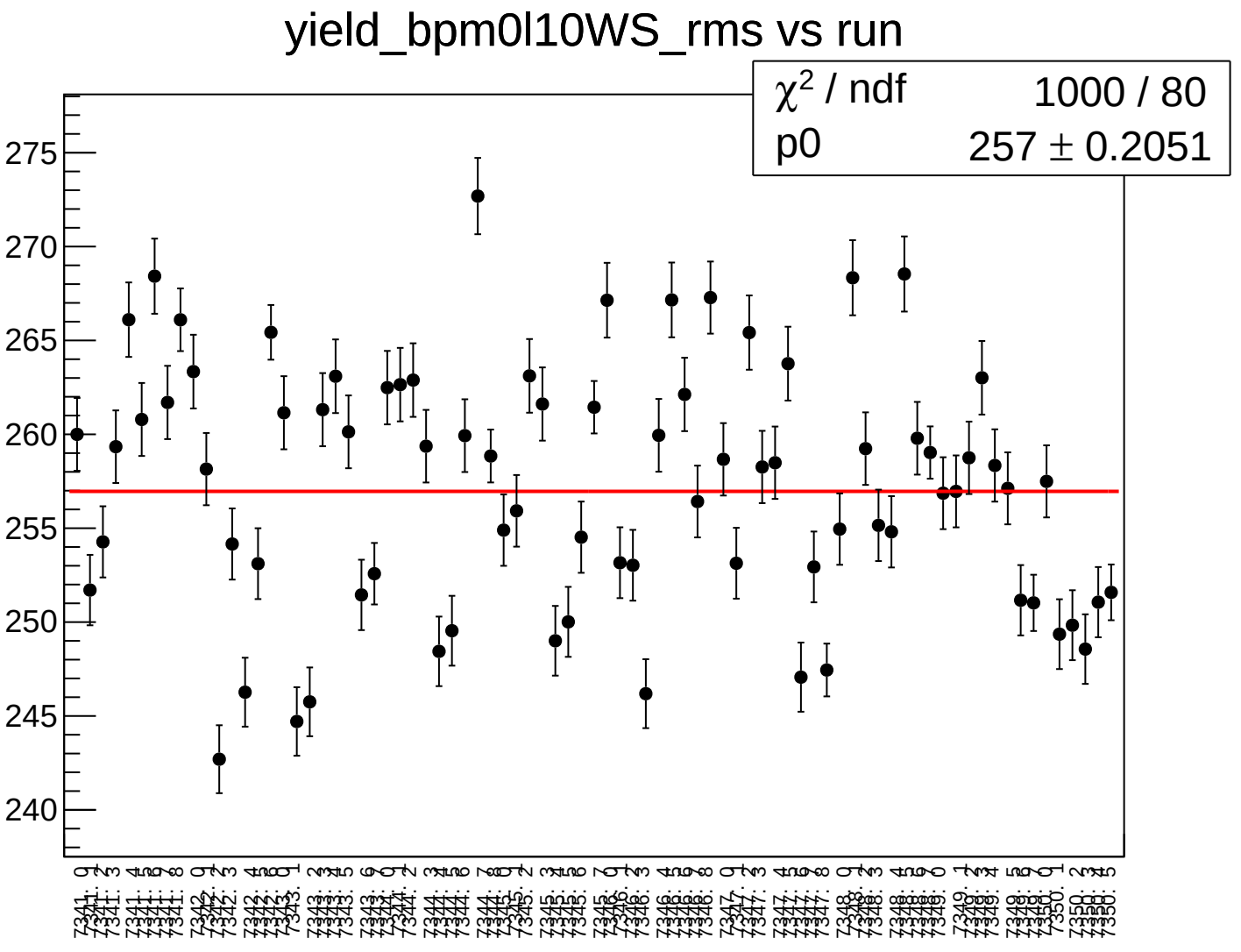

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.439e+04 / 80
p0 1.405e+05 ± 0.2907
140.56
140.54
140.52
140.5
140.48
140.46
140.44
140.42
140.4
pull
Entries 81
Mean 847.2
Std Dev 797.9
30
20
10
0
−10
−20

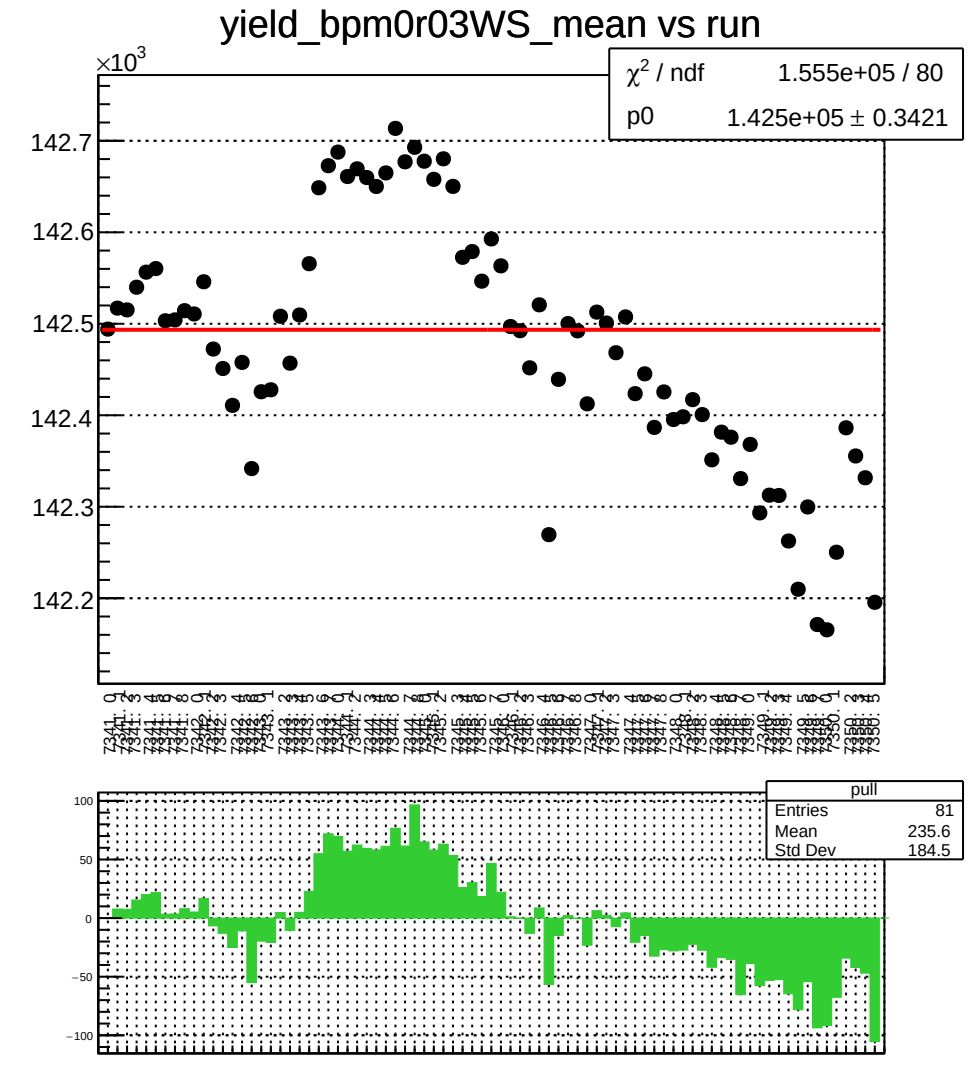

pull1D
Entries 81
Mean −0.6208
Std Dev 4.366
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

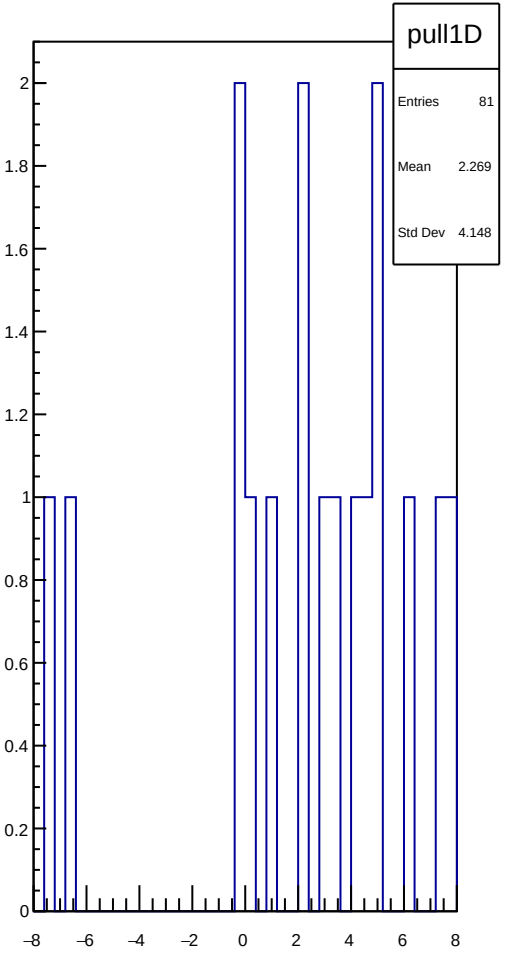

yield_bpm0l09WS_rms vs run
χ² / ndf 1122 / 80
p0 257.6 ± 0.2056
280
275
270
265
260
255
250
245
240
235

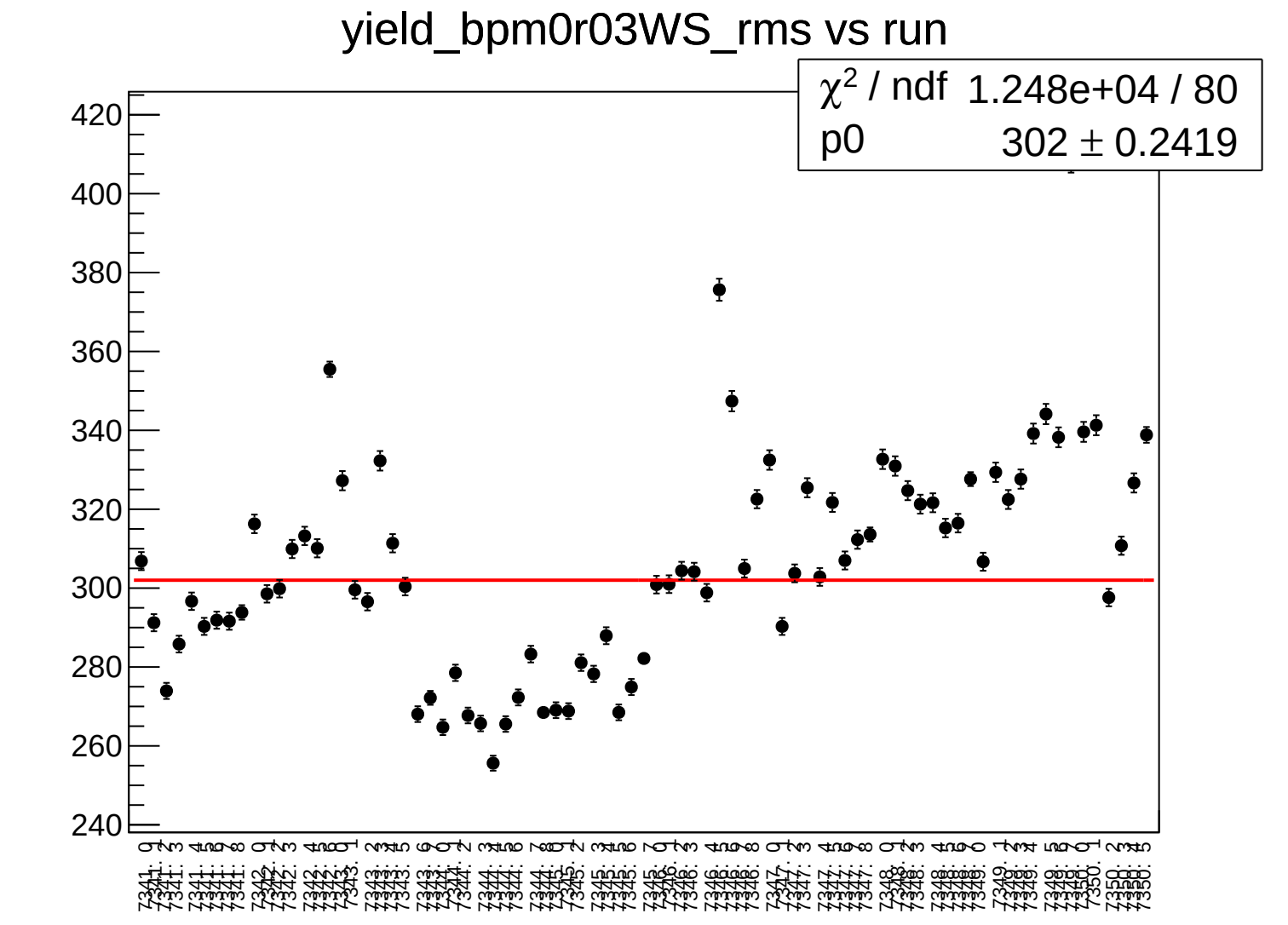

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.158e+04 / 80
p0 1.404e+05 ± 0.29
140.48
140.46
140.44
140.42
140.4
140.38
140.36
140.34
pull
Entries 81
Mean 705
Std Dev 657
30
20
10
0
−10
−20

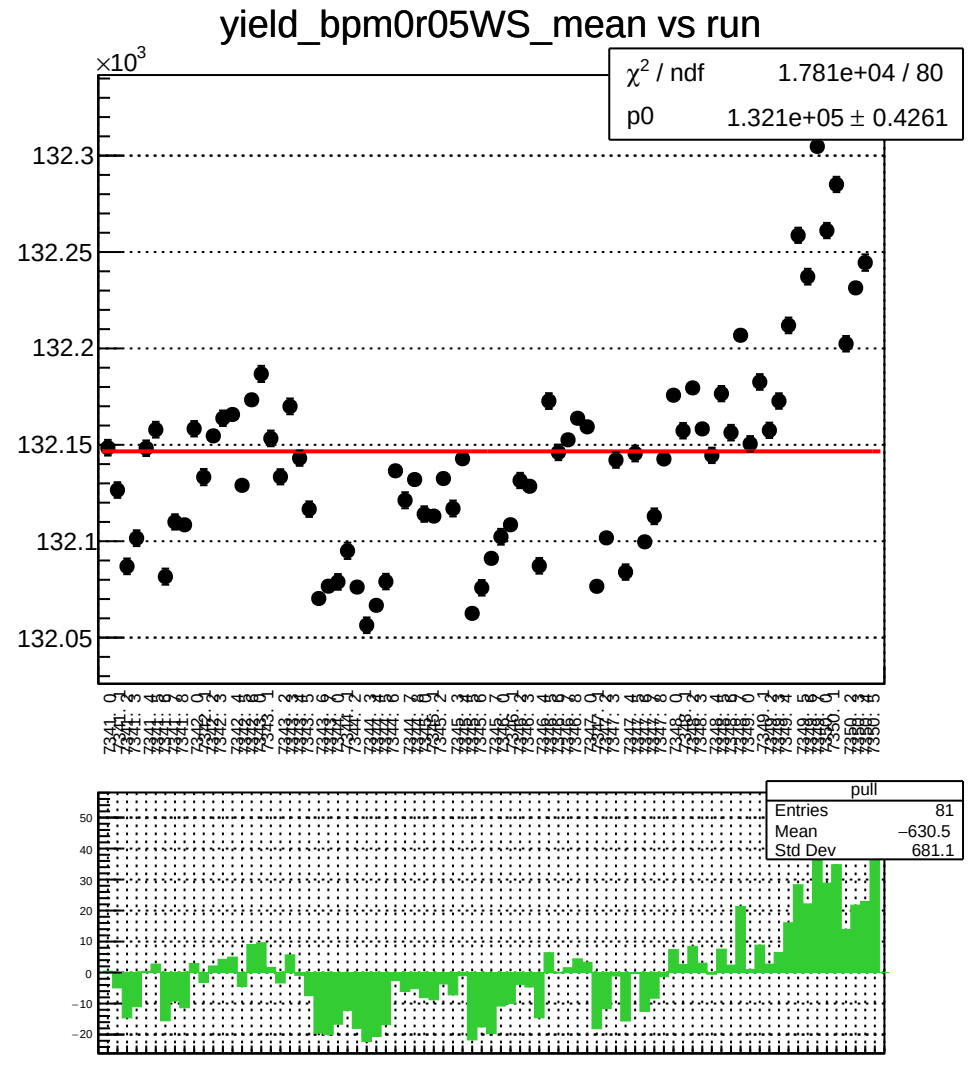

pull1D
Entries 81
Mean 0.3004
Std Dev 4.615
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

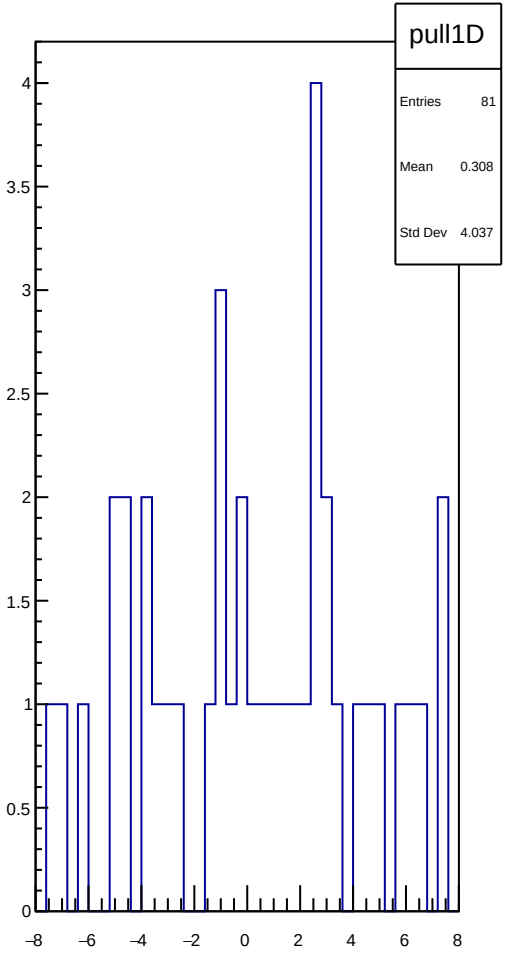

yield_bpm0l10WS_rms vs run
χ² / ndf 1000 / 80
p0 257 ± 0.2051
275
270
265
260
255
250
245
240

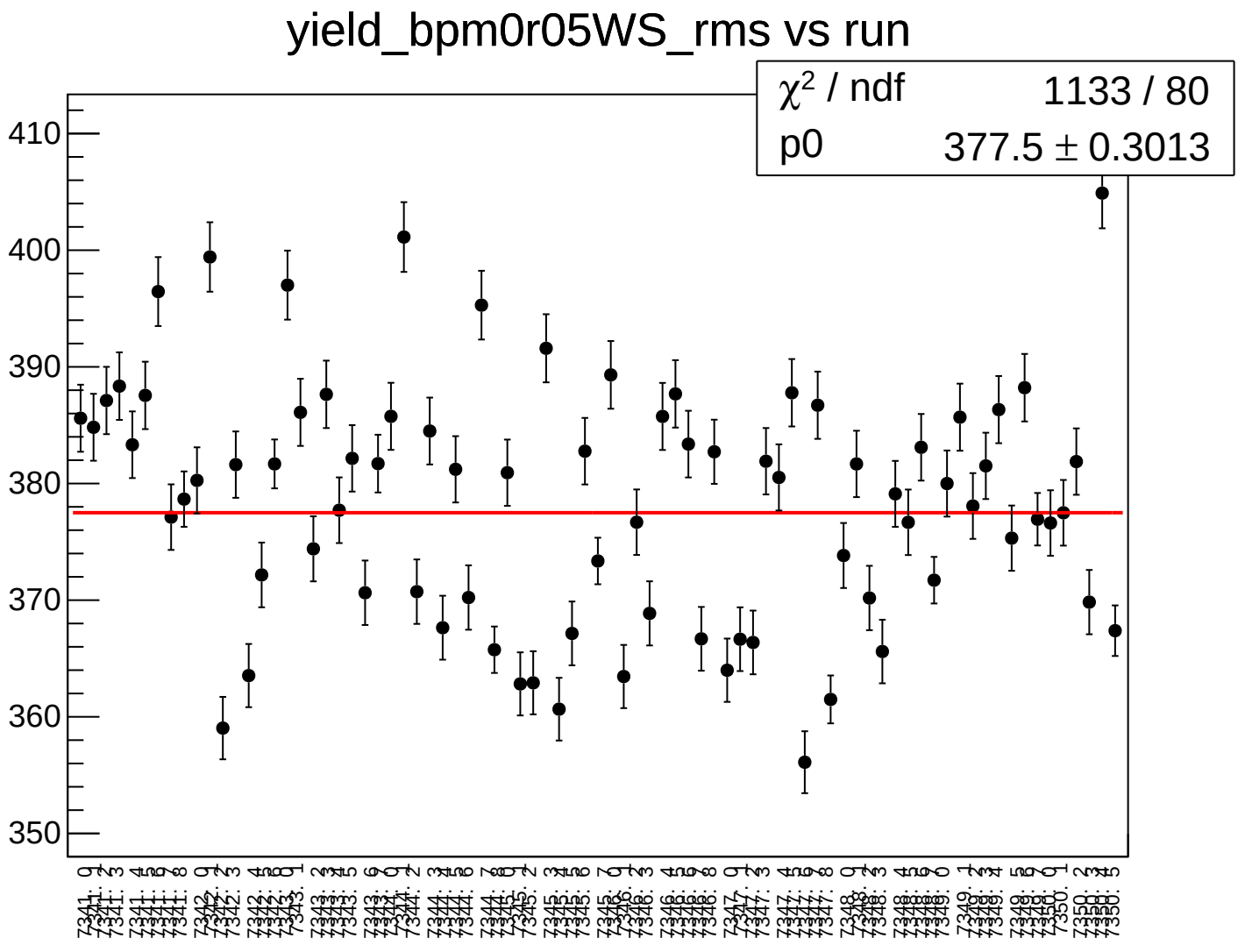

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.555e+05 / 80
p0 1.425e+05 ± 0.3421
142.7
142.6
142.5
142.4
142.3
142.2
pull
Entries 81
Mean 235.6
Std Dev 184.5
100
50
0
−50
−100

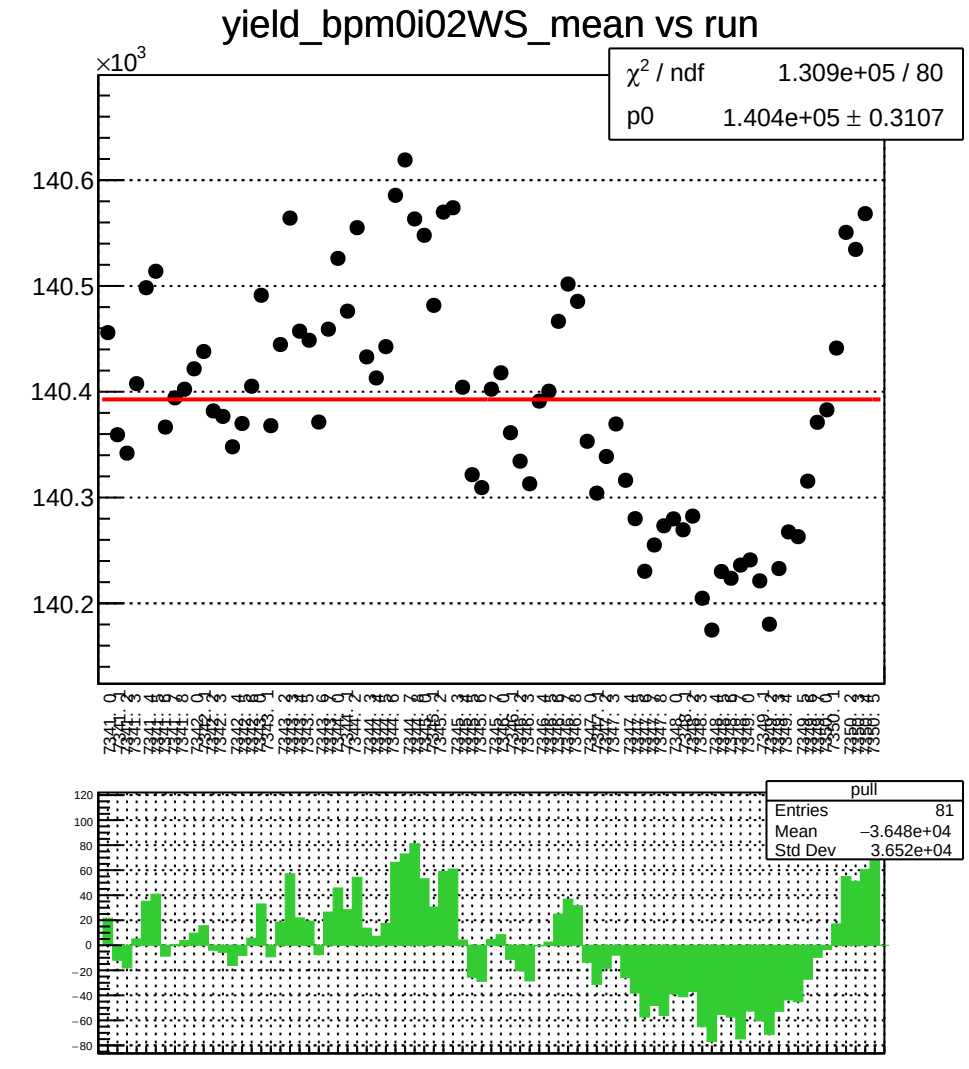

pull1D
Entries 81
Mean 2.269
Std Dev 4.148
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

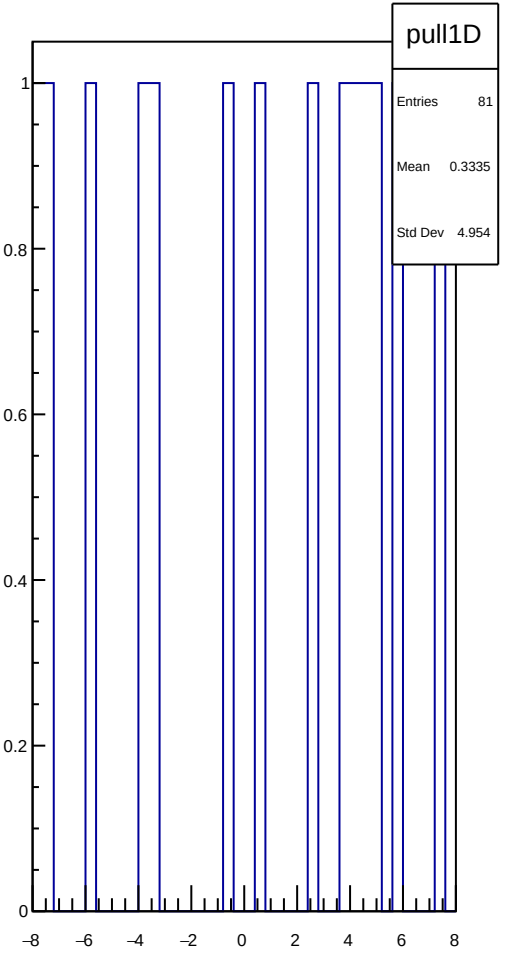

yield_bpm0r03WS_rms vs run
χ² / ndf 1.248e+04 / 80
p0 302 ± 0.2419
420
400
380
360
340
320
300
280
260
240

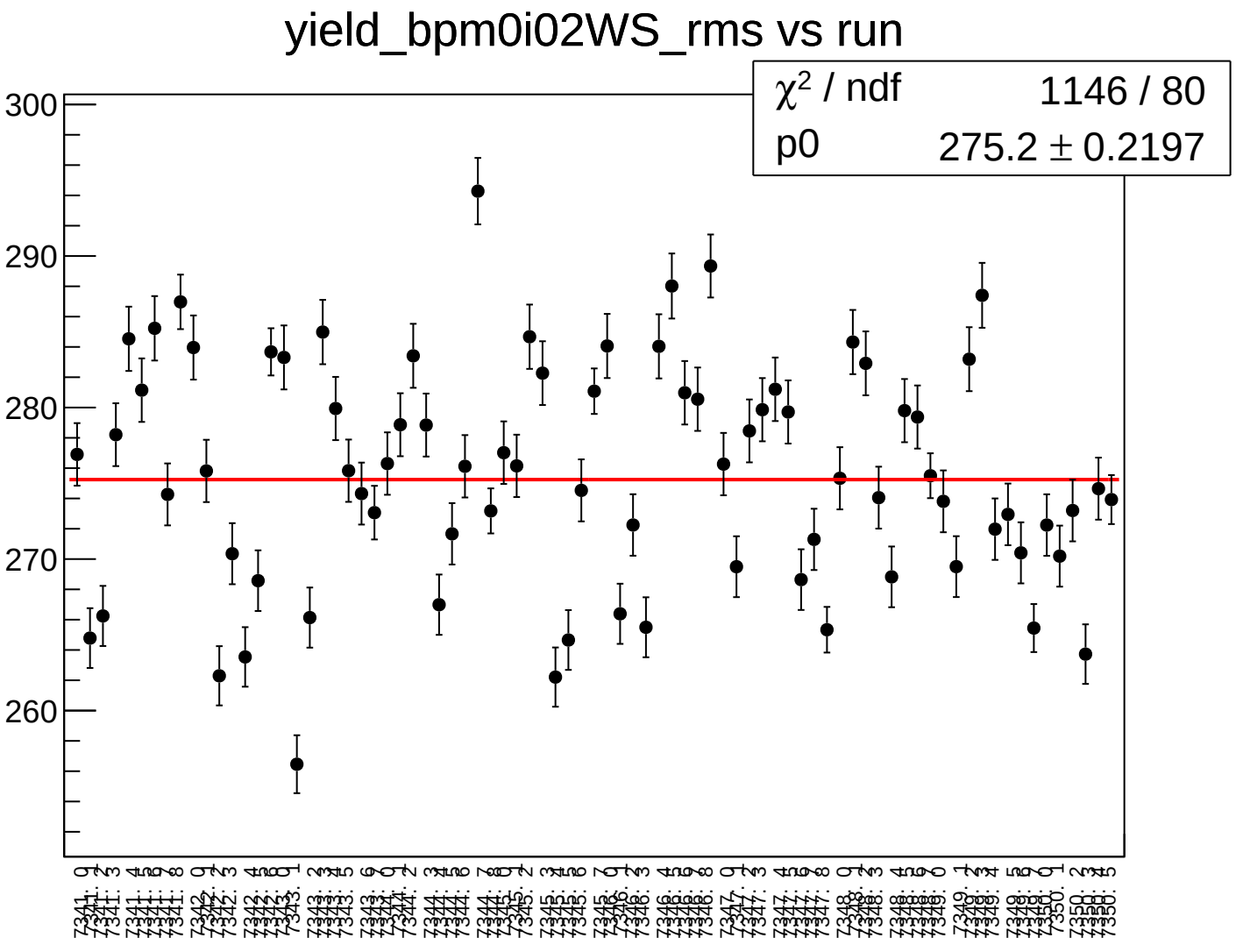

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.781e+04 / 80
p0 1.321e+05 ± 0.4261
132.3
132.25
132.2
132.15
132.1
132.05
pull
Entries 81
Mean −630.5
Std Dev 681.1
50
40
30
20
10
0
−10
−20

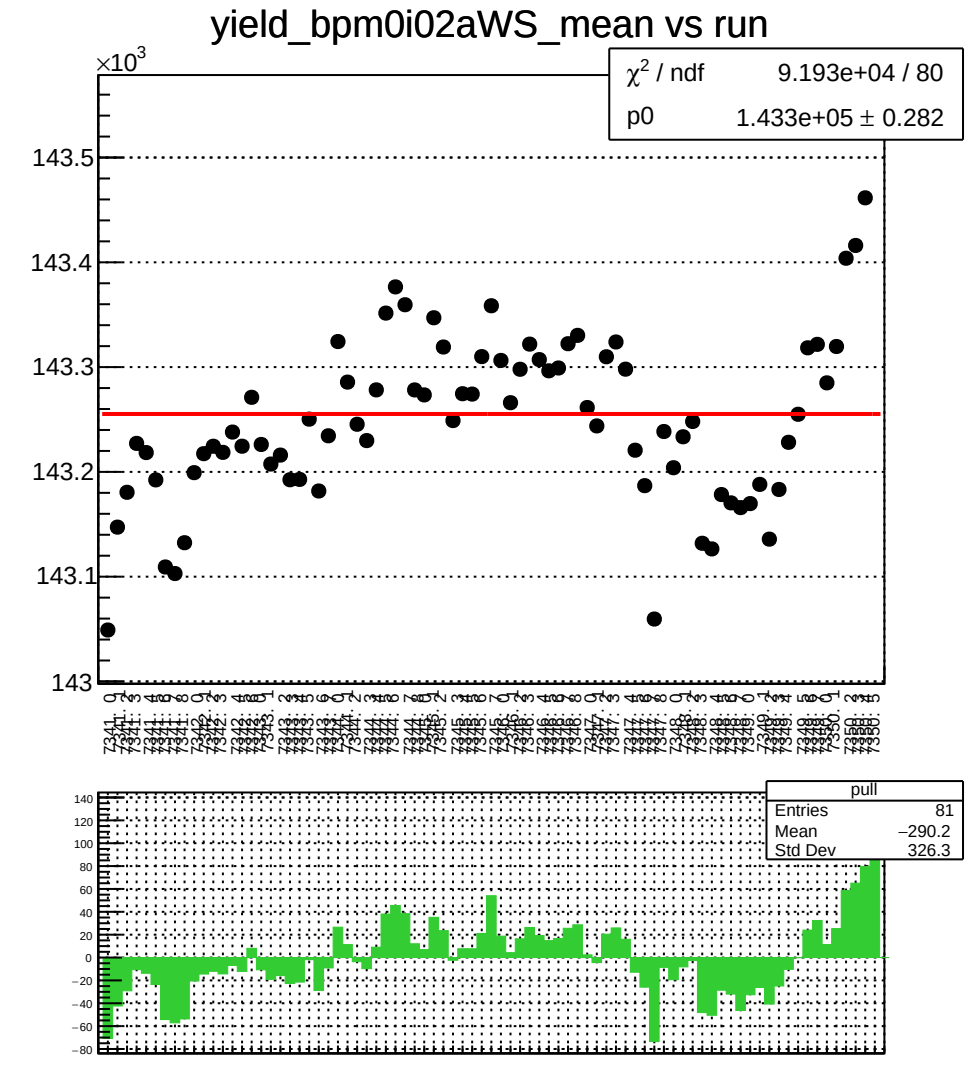

pull1D
Entries 81
Mean 0.308
Std Dev 4.037
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

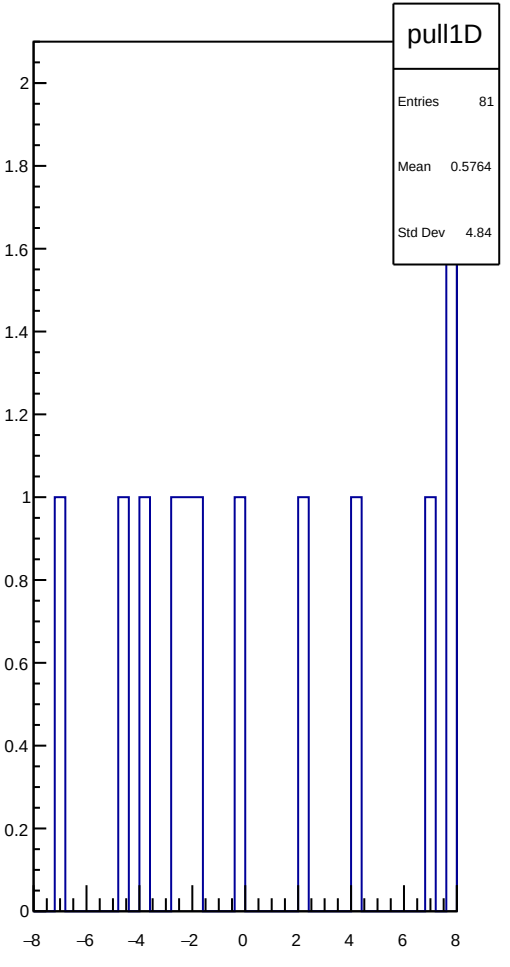

yield_bpm0r05WS_rms vs run
χ² / ndf 1133 / 80
p0 377.5 ± 0.3013
410
400
390
380
370
360
350

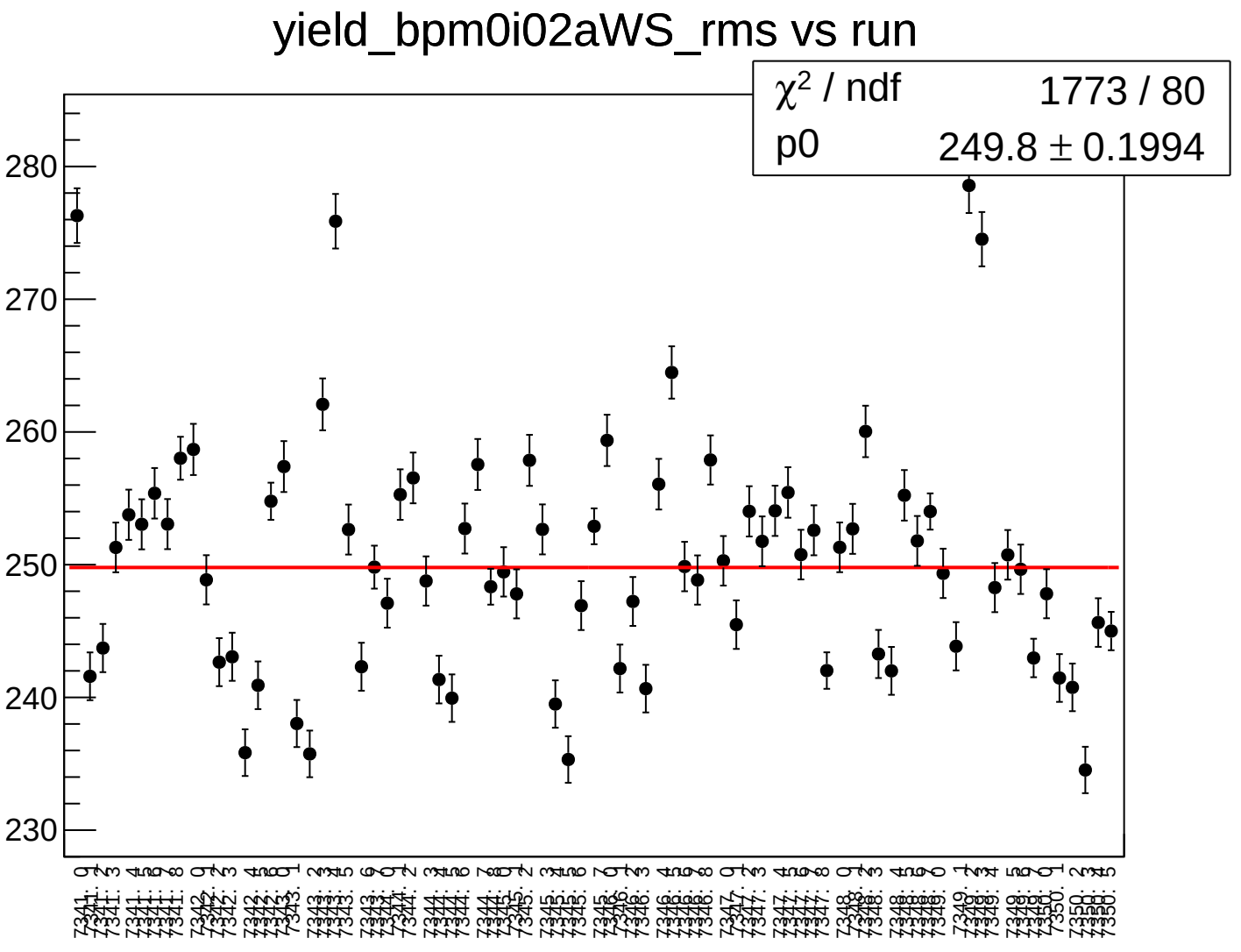

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.309e+05 / 80
p0 1.404e+05 ± 0.3107
140.6
140.5
140.4
140.3
140.2
pull
Entries 81
Mean −3.648e+04
Std Dev 3.652e+04
120
100
80
60
40
20
0
−20
−40
−60
−80

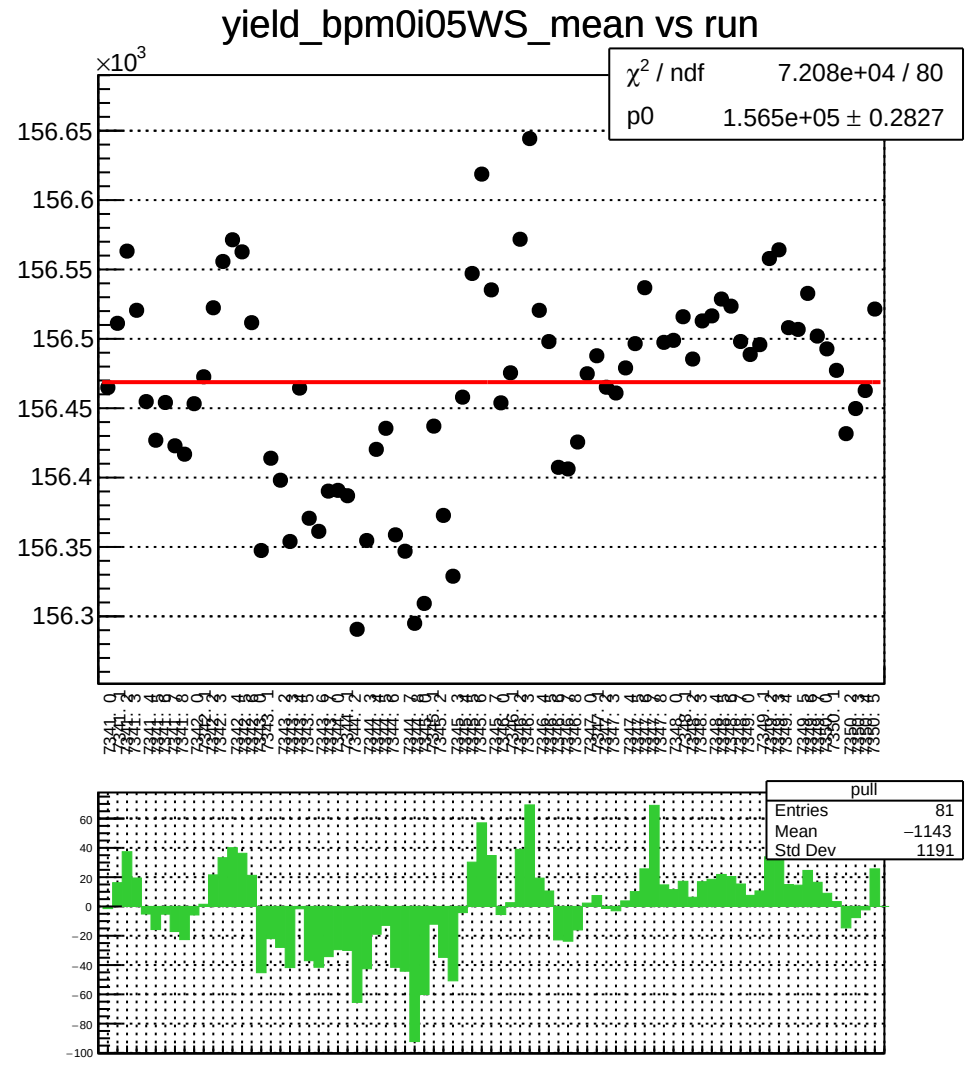

pull1D
Entries 81
Mean 0.3335
Std Dev 4.954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

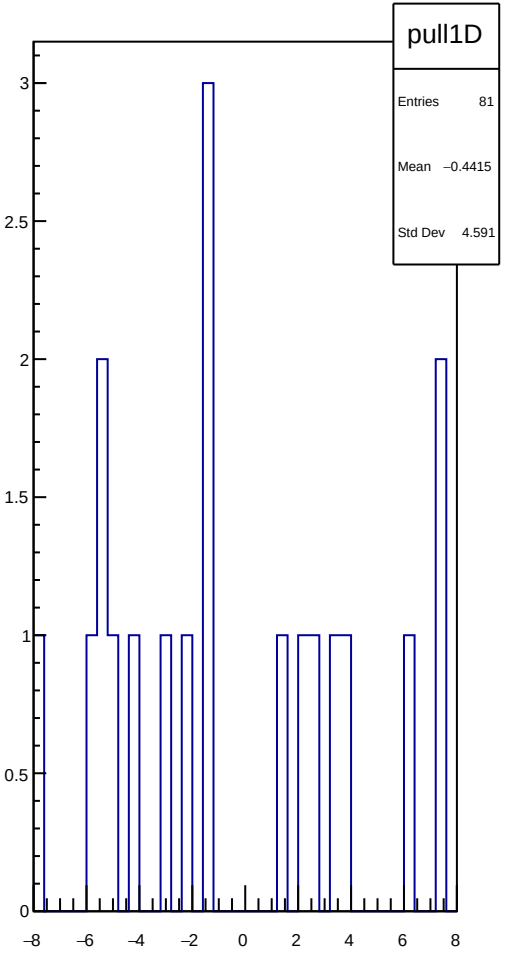

yield_bpm0i02WS_rms vs run
χ² / ndf 1146 / 80
p0 275.2 ± 0.2197
300
290
280
270
260

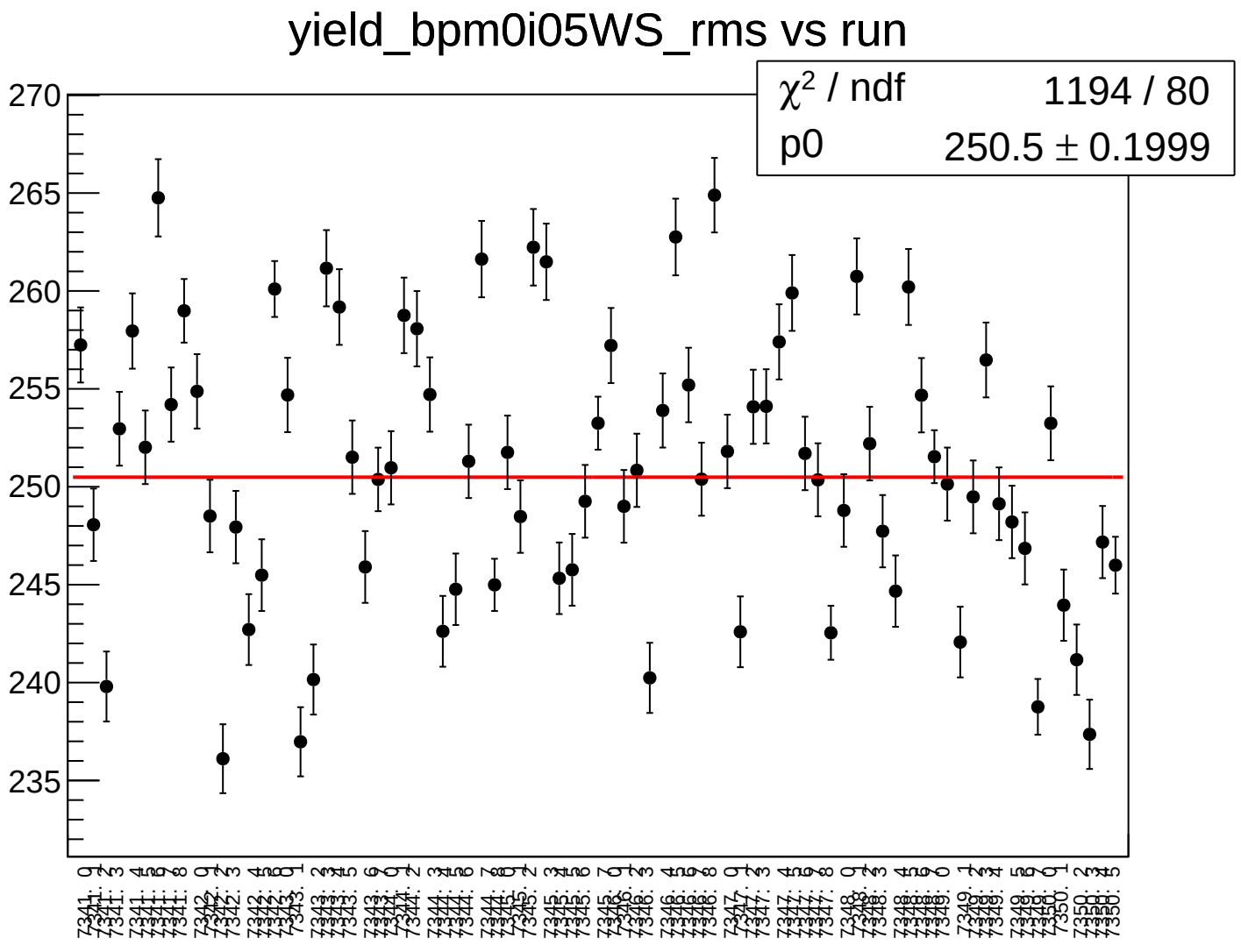

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.193e+04 / 80
p0 1.433e+05 ± 0.282
143.5
143.4
143.3
143.2
143.1
143
pull
Entries 81
Mean −290.2
Std Dev 326.3
140
120
100
80
60
40
20
0
−20
−40
−60
−80

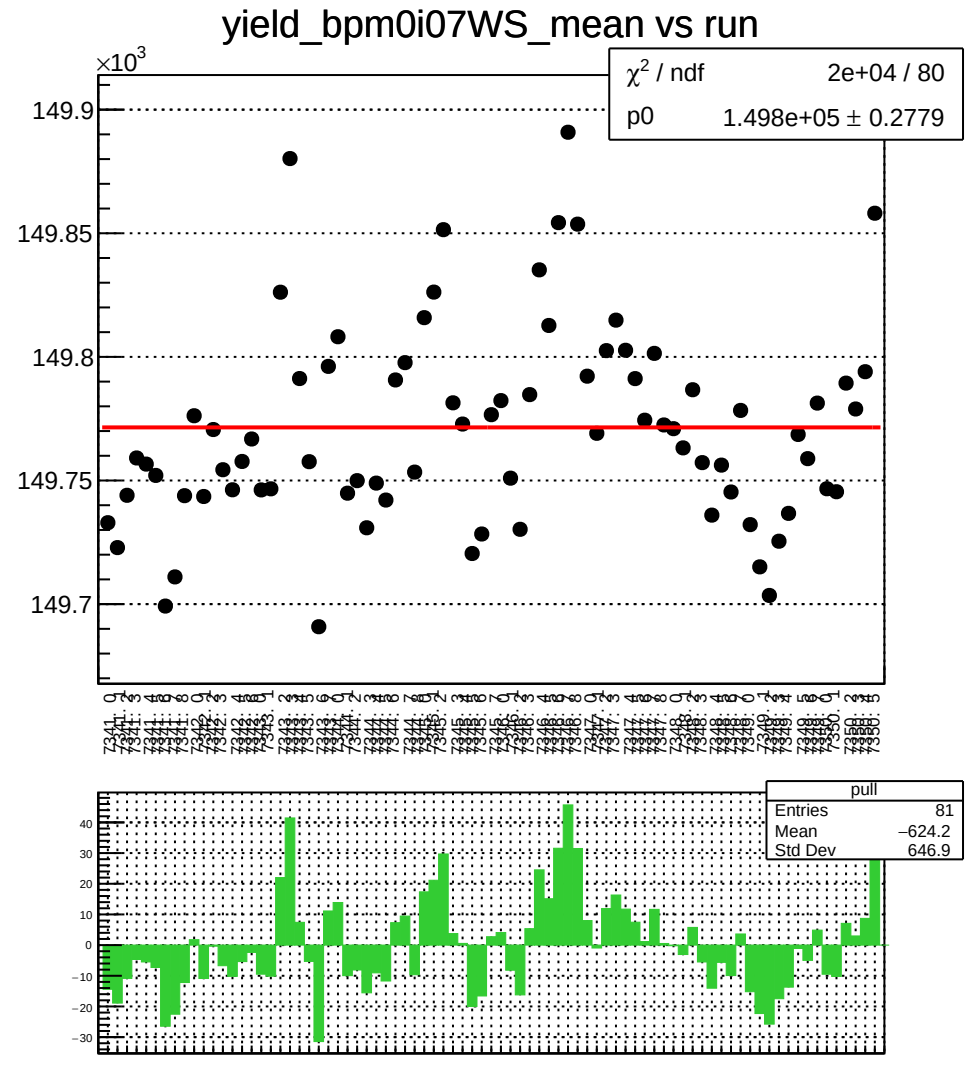

pull1D
Entries 81
Mean 0.5764
Std Dev 4.84
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

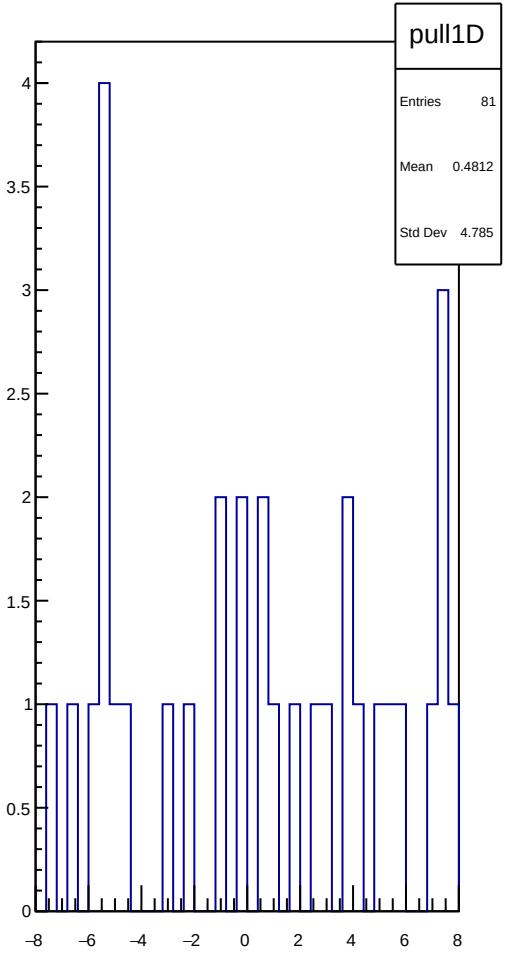

yield_bpm0i02aWS_rms vs run
χ² / ndf 1773 / 80
p0 249.8 ± 0.1994
280
270
260
250
240
230

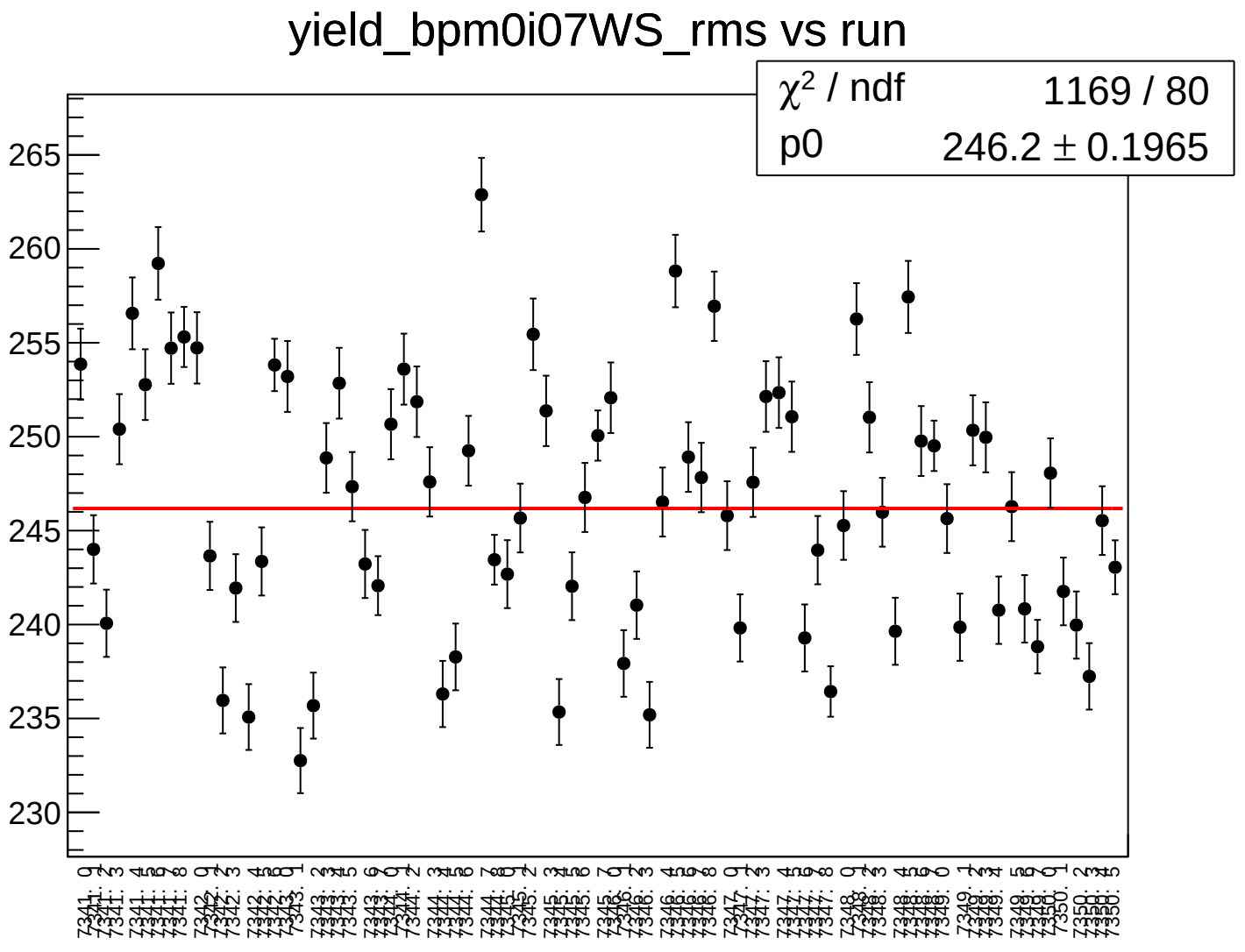

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.208e+04 / 80
p0 1.565e+05 ± 0.2827
156.65
156.6
156.55
156.5
156.45
156.4
156.35
156.3
pull
Entries 81
Mean −1143
Std Dev 1191
60
40
20
0
−20
−40
−60
−80
−100

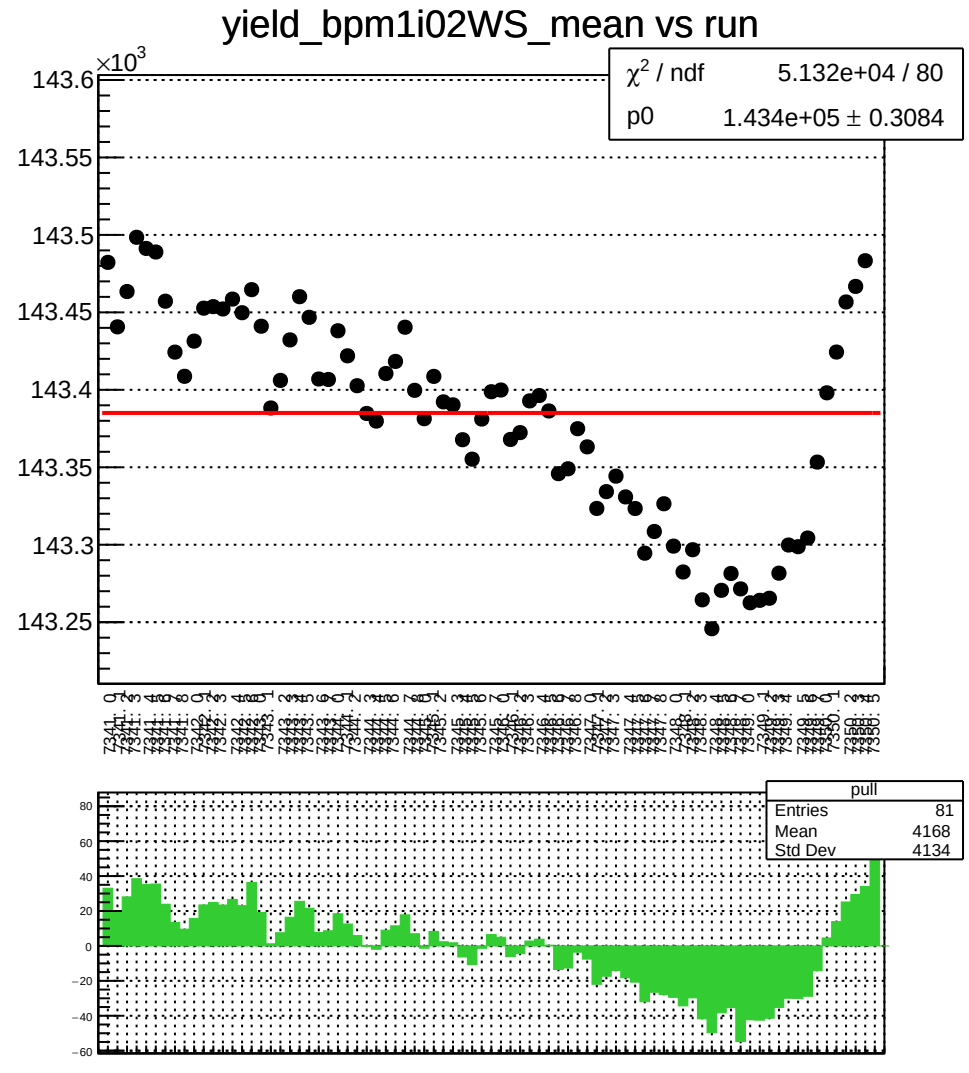

pull1D
Entries 81
Mean −0.4415
Std Dev 4.591
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

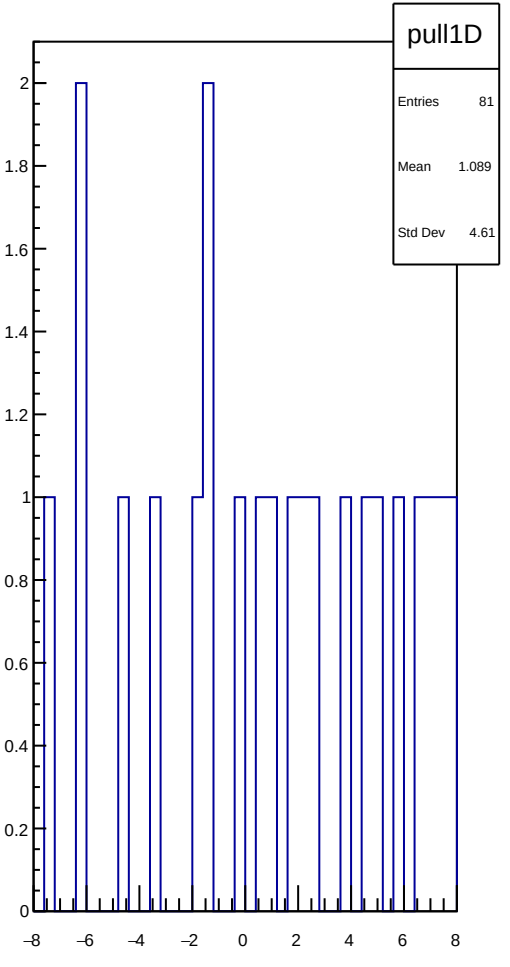

yield_bpm0i05WS_rms vs run
χ² / ndf 1194 / 80
p0 250.5 ± 0.1999
270
265
260
255
250
245
240
235

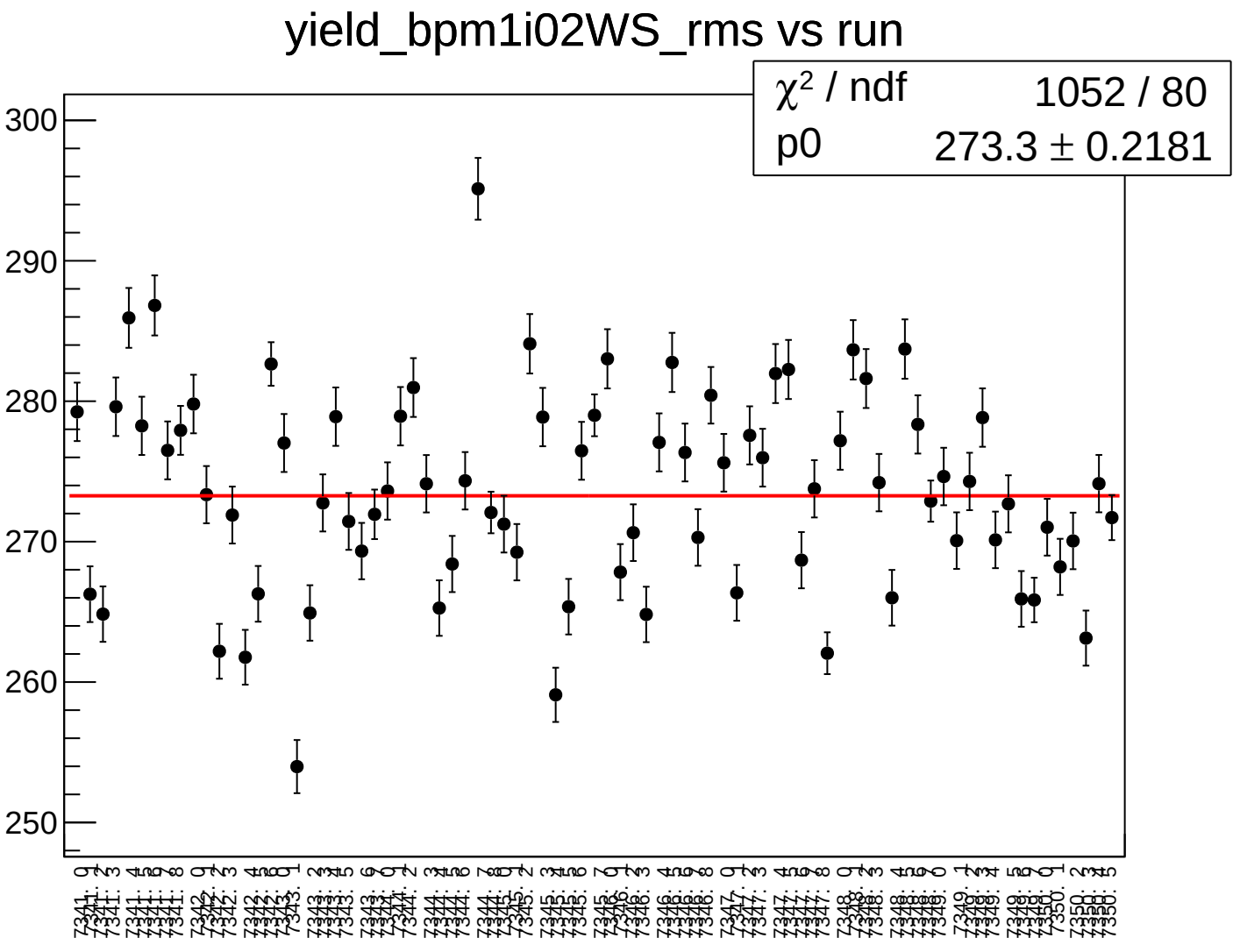

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2e+04 / 80
p0 1.498e+05 ± 0.2779
149.9
149.85
149.8
149.75
149.7
pull
Entries 81
Mean −624.2
Std Dev 646.9
40
30
20
10
0
−10
−20
−30

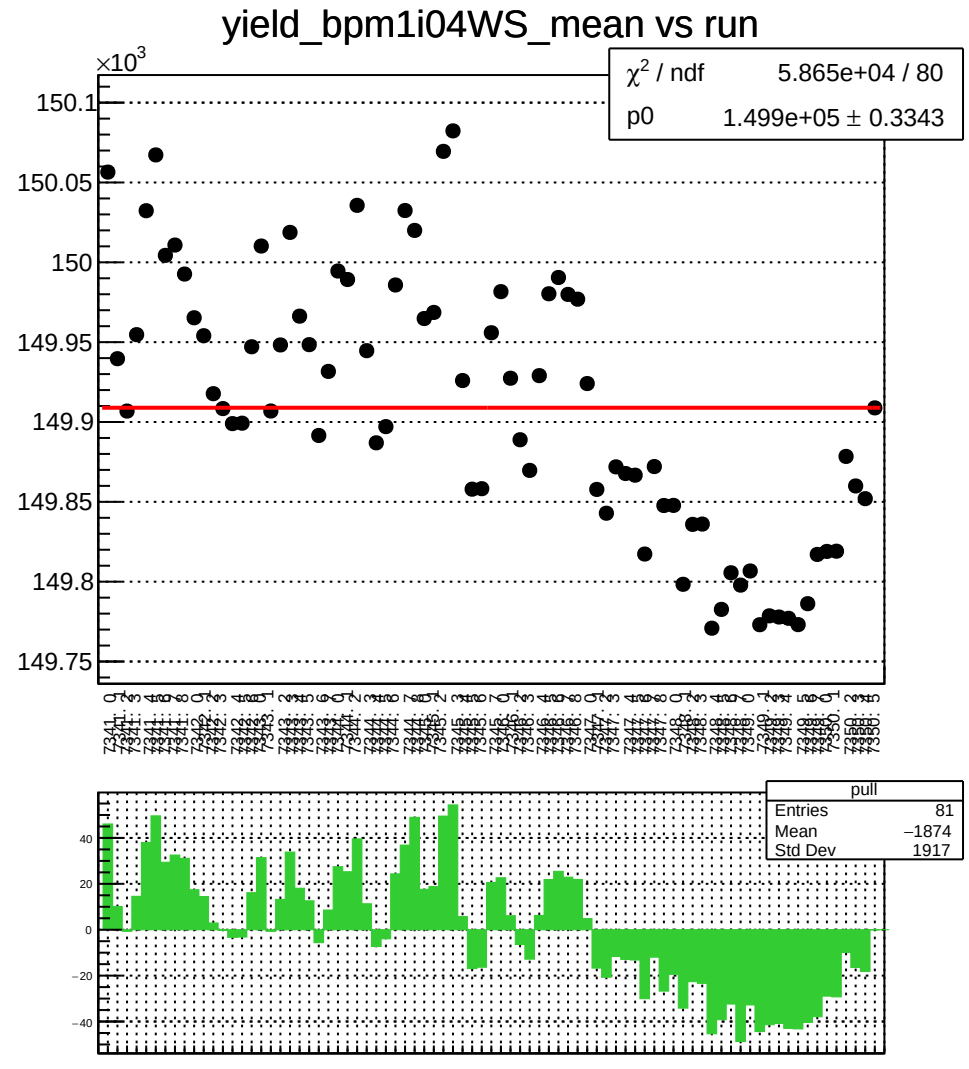

pull1D
Entries 81
Mean 0.4812
Std Dev 4.785
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

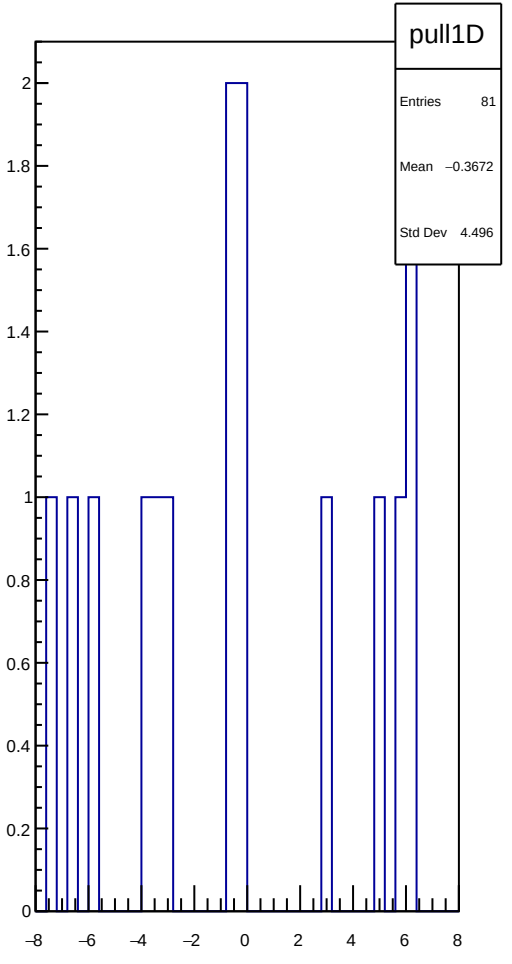

yield_bpm0i07WS_rms vs run
χ² / ndf 1169 / 80
p0 246.2 ± 0.1965
265
260
255
250
245
240
235
230

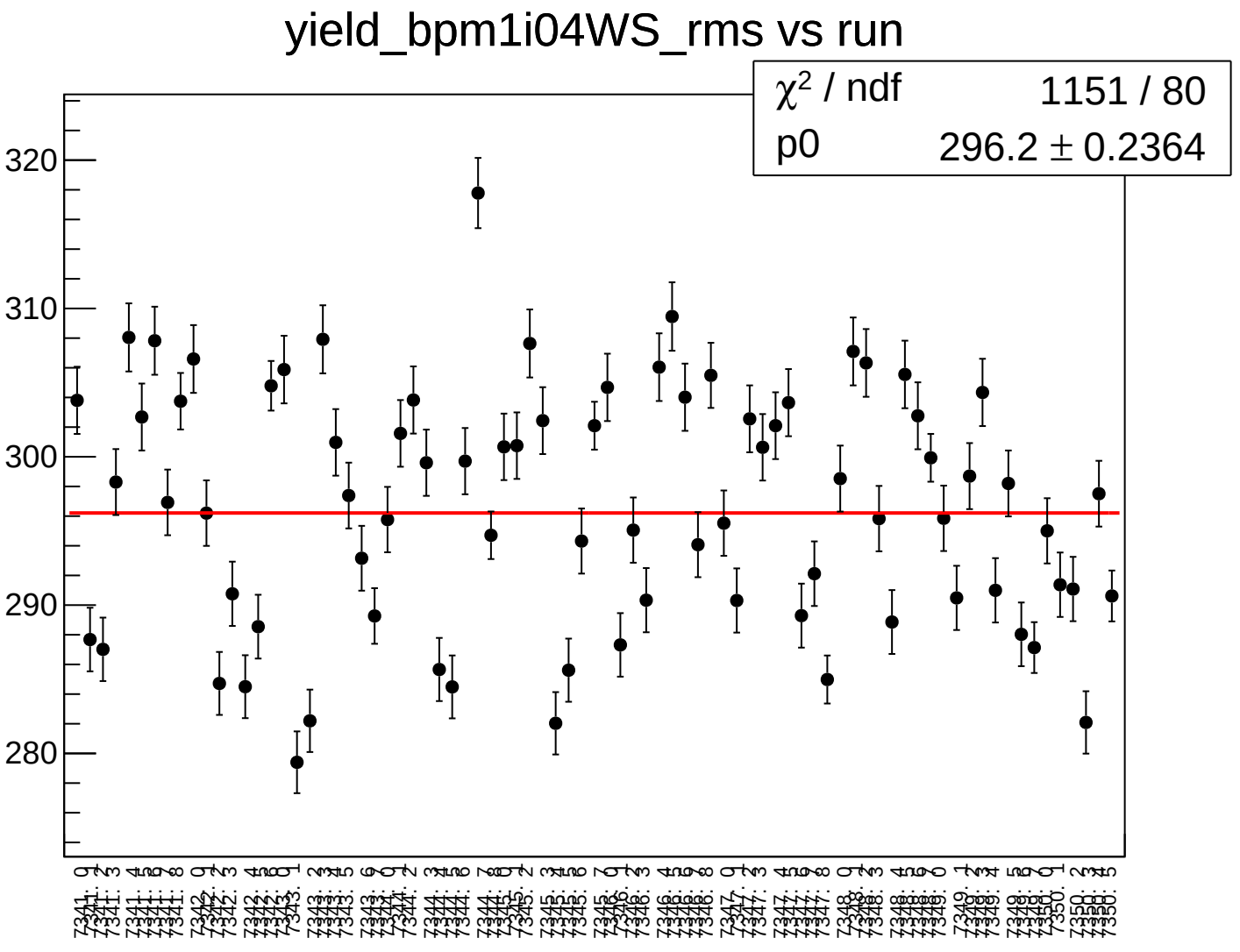

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 5.132e+04 / 80
p0 1.434e+05 ± 0.3084
143.6
143.55
143.5
143.45
143.4
143.35
143.3
143.25
pull
Entries 81
Mean 4168
Std Dev 4134
80
60
40
20
0
−20
−40
−60

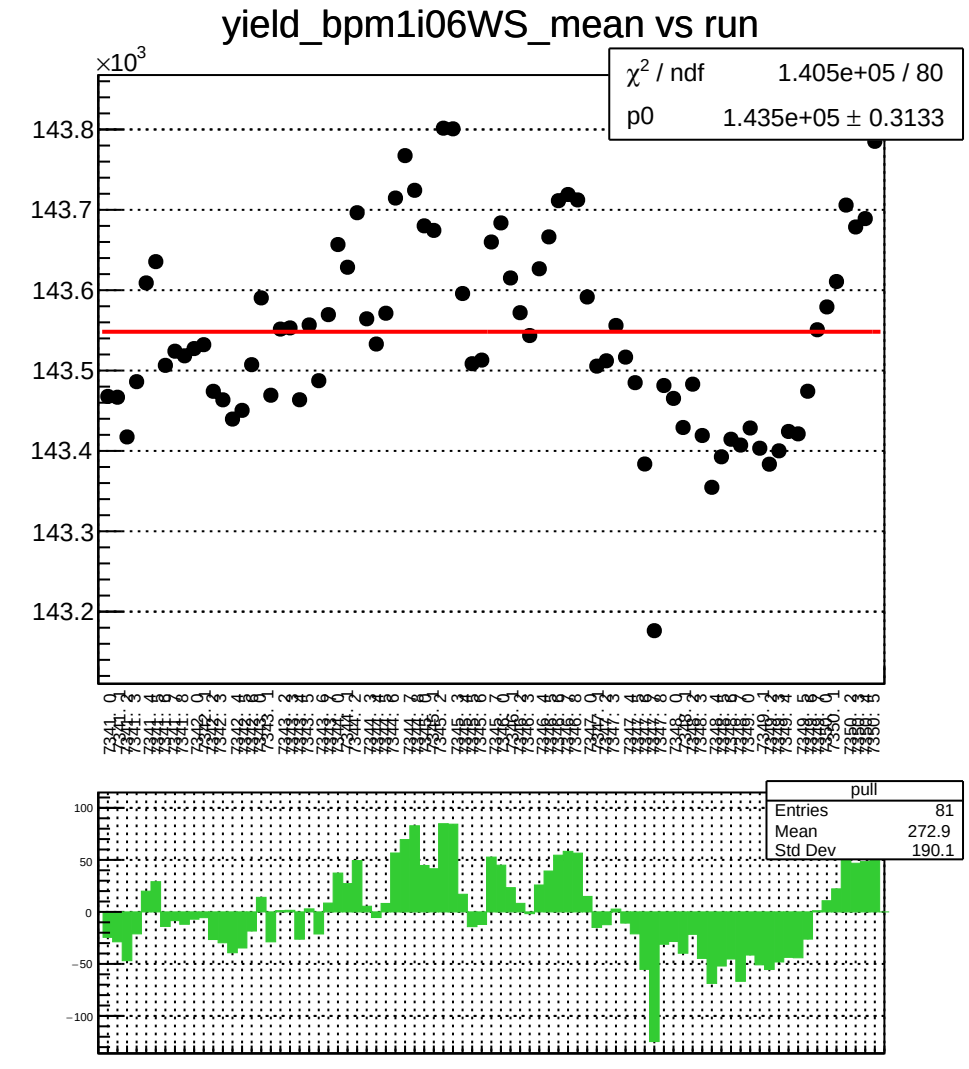

pull1D
Entries 81
Mean 1.089
Std Dev 4.61
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

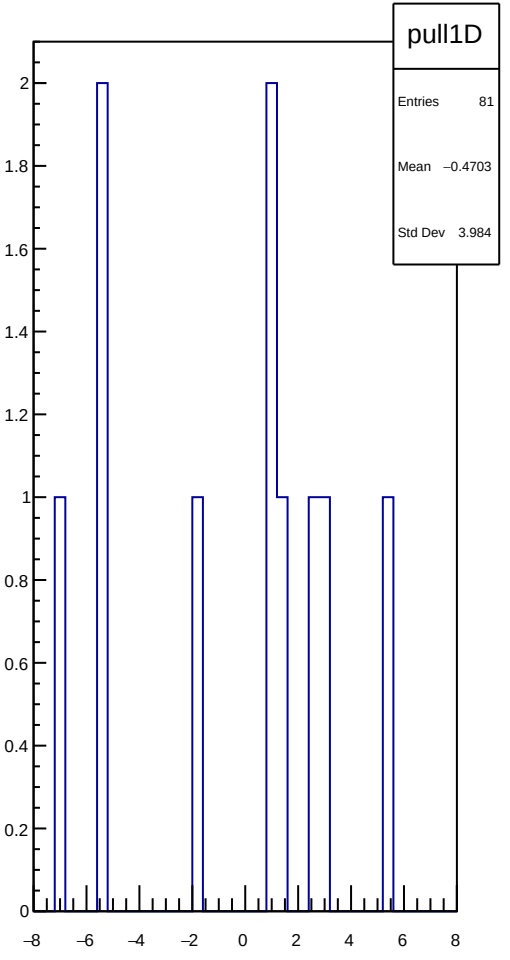

yield_bpm1i02WS_rms vs run
χ² / ndf 1052 / 80
p0 273.3 ± 0.2181
300
290
280
270
260
250

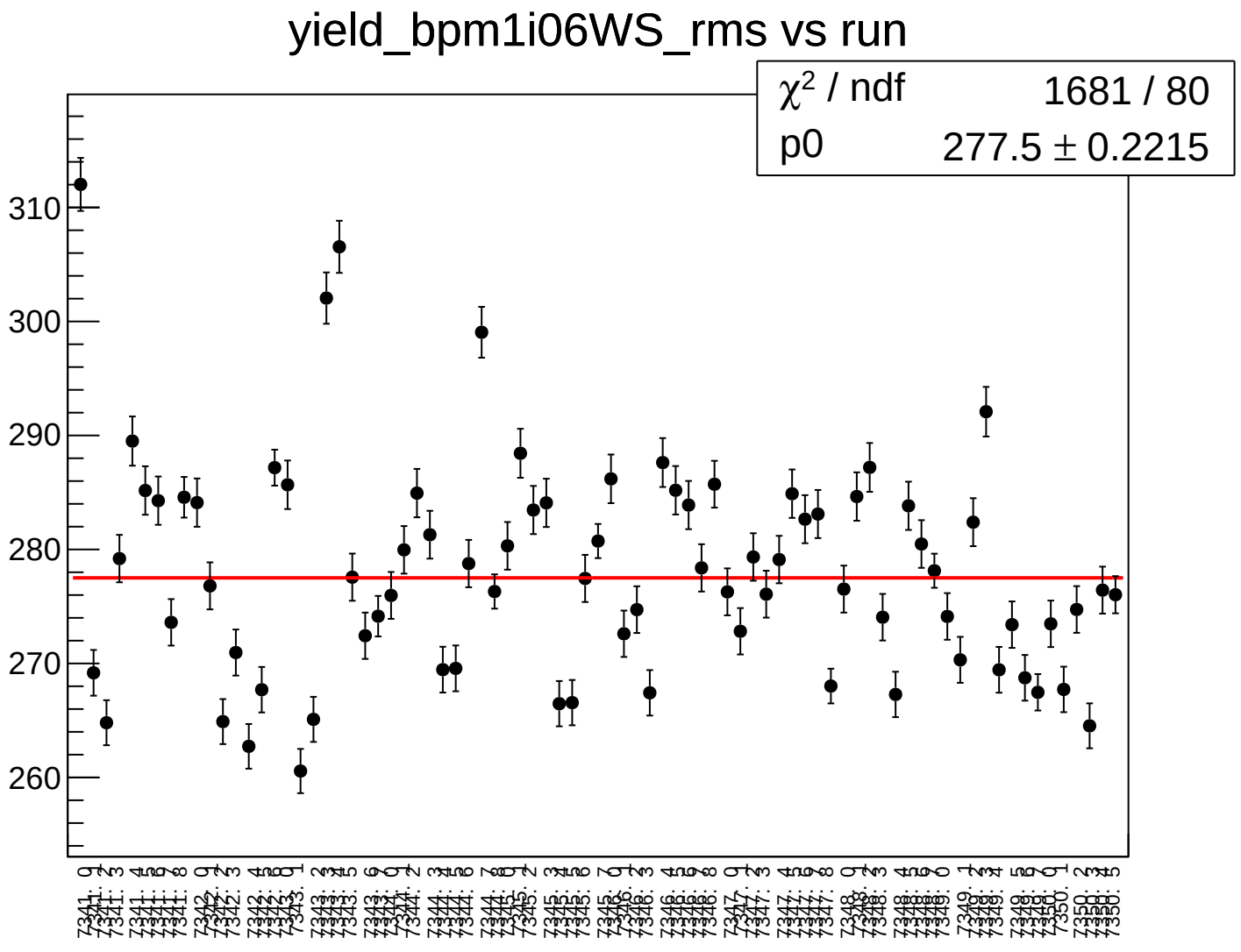

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 5.865e+04 / 80
p0 1.499e+05 ± 0.3343
150.1
150.05
150
149.95
149.9
149.85
149.8
149.75
pull
Entries 81
Mean −1874
Std Dev 1917
40
20
0
−20
−40

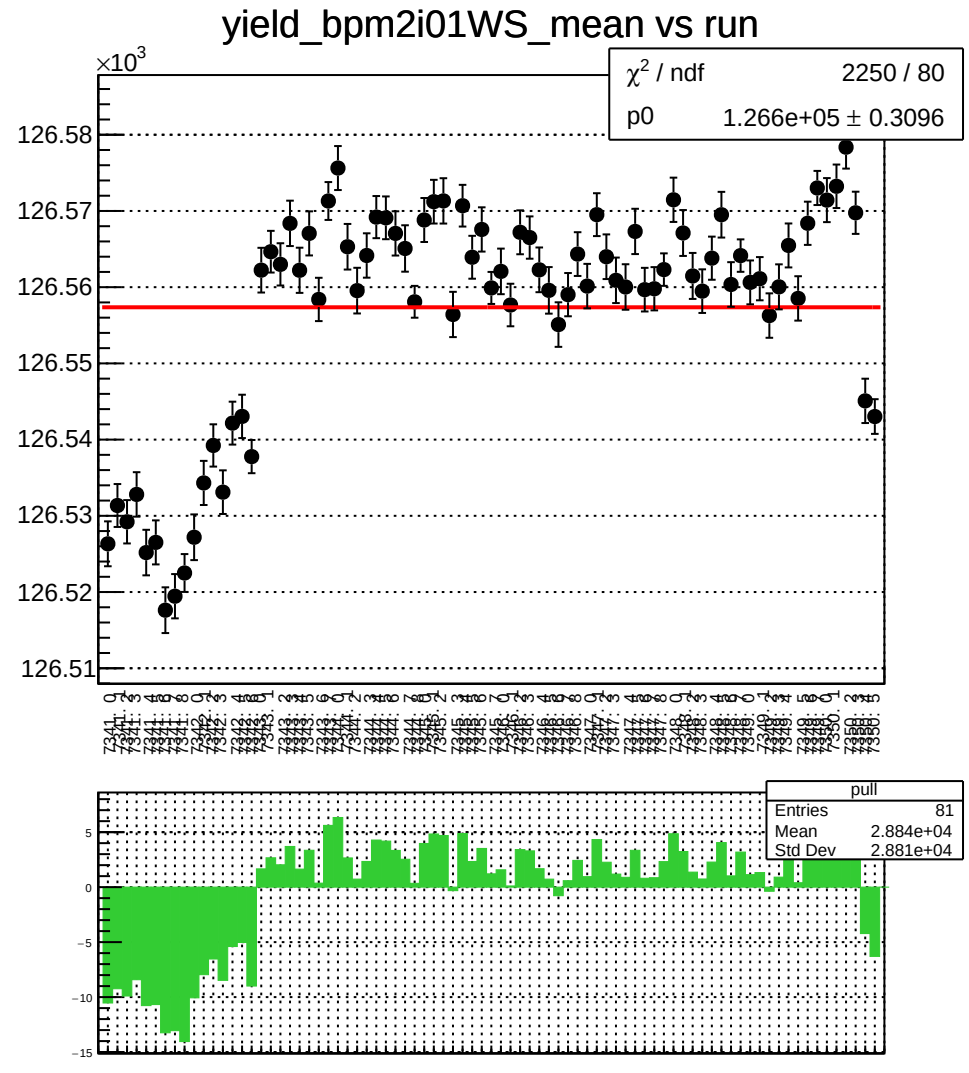

pull1D
Entries 81
Mean −0.3672
Std Dev 4.496
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

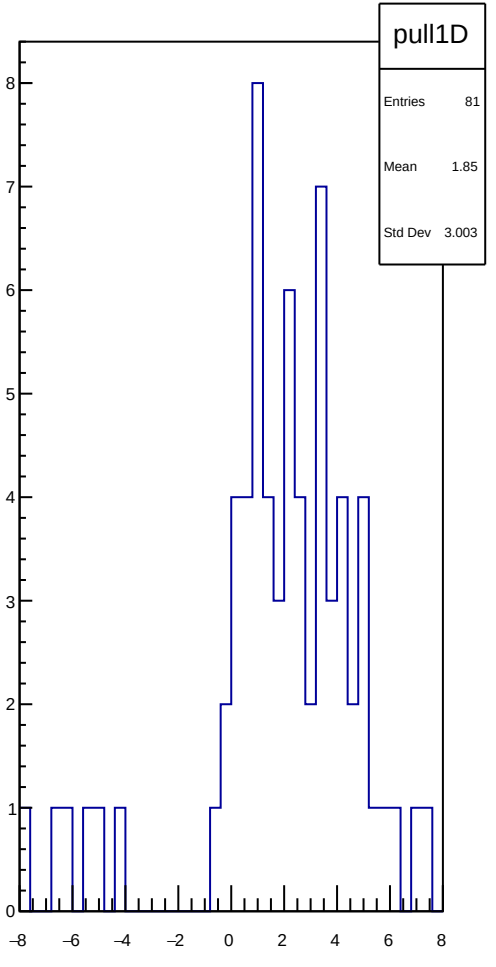

yield_bpm1i04WS_rms vs run
χ² / ndf 1151 / 80
p0 296.2 ± 0.2364
320
310
300
290
280

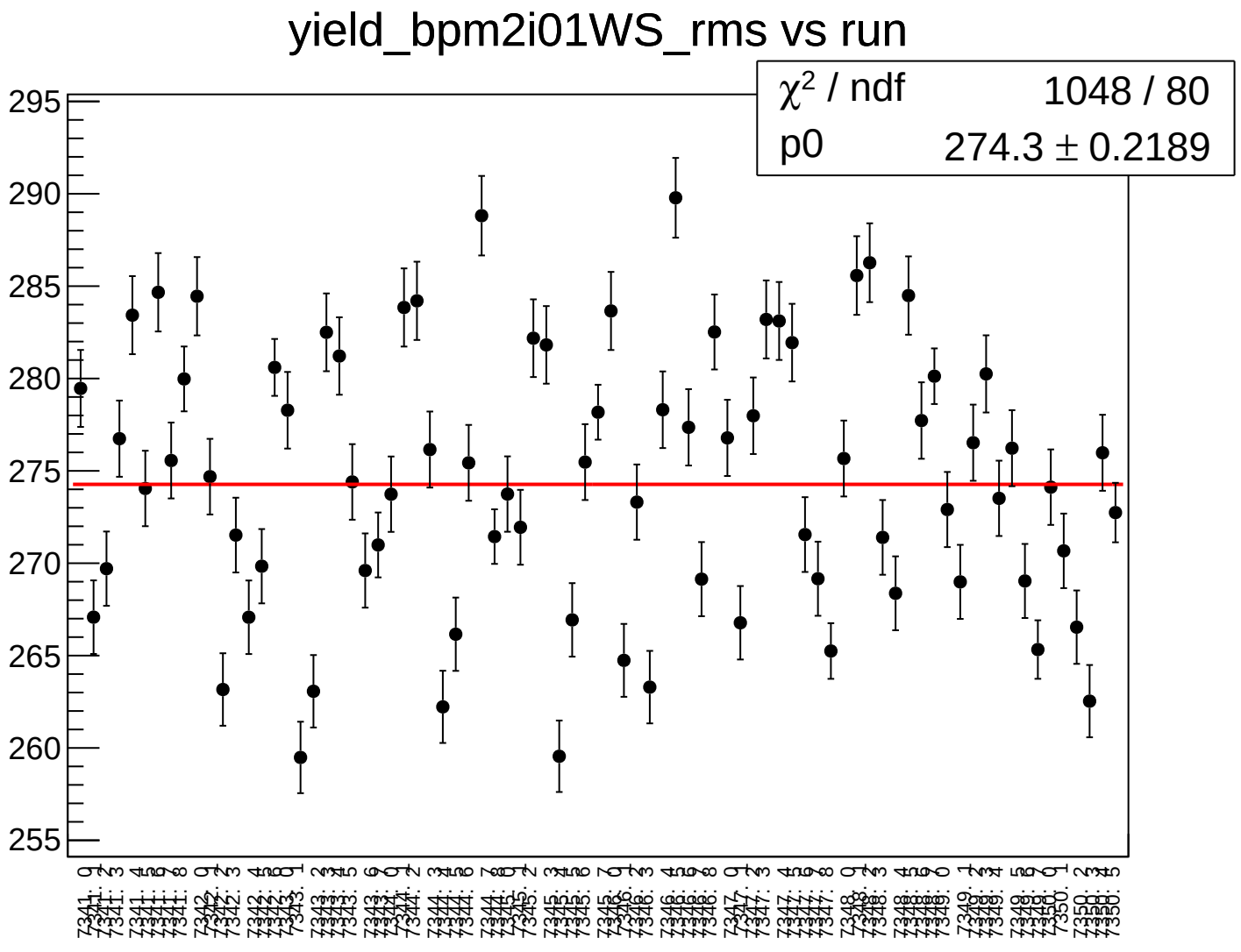

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.405e+05 / 80
p0 1.435e+05 ± 0.3133
143.8
143.7
143.6
143.5
143.4
143.3
143.2
pull
Entries 81
Mean 272.9
Std Dev 190.1
100
50
0
−50
−100

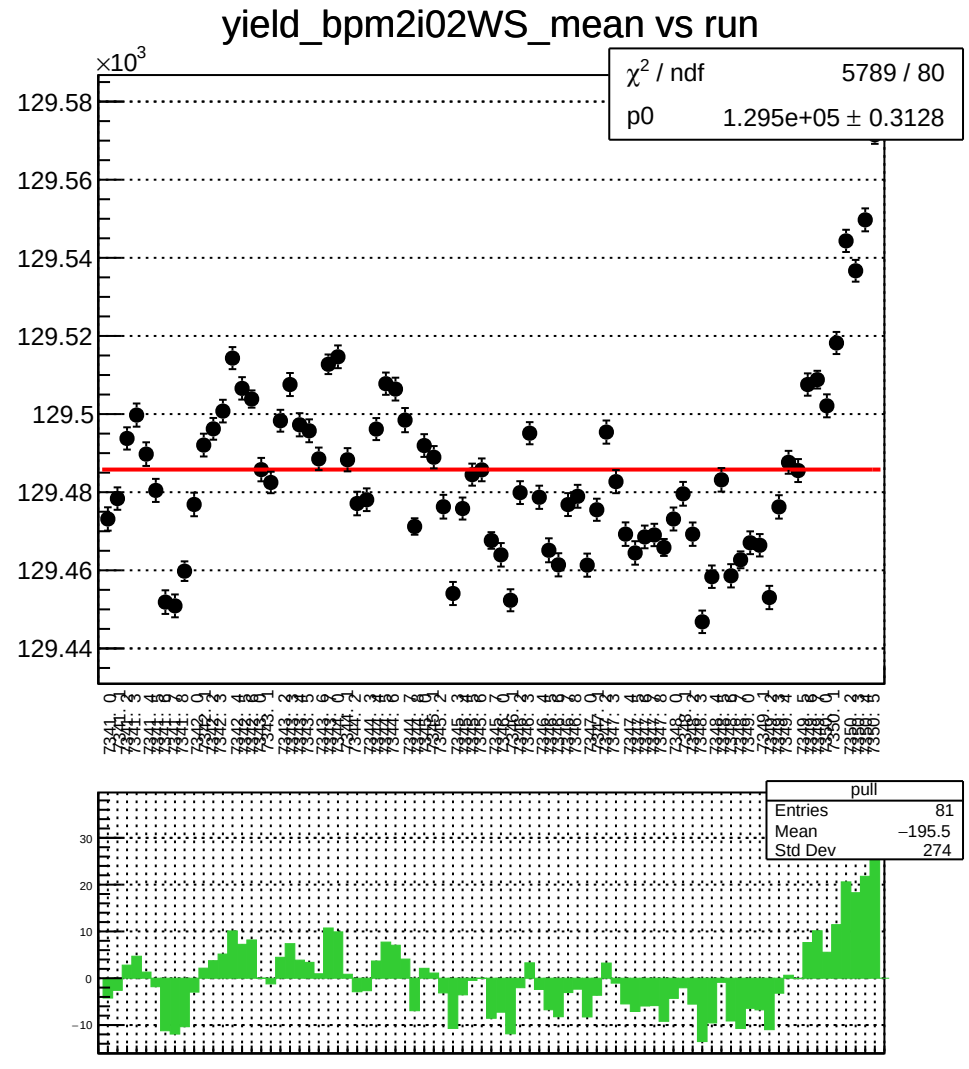

pull1D
Entries 81
Mean −0.4703
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

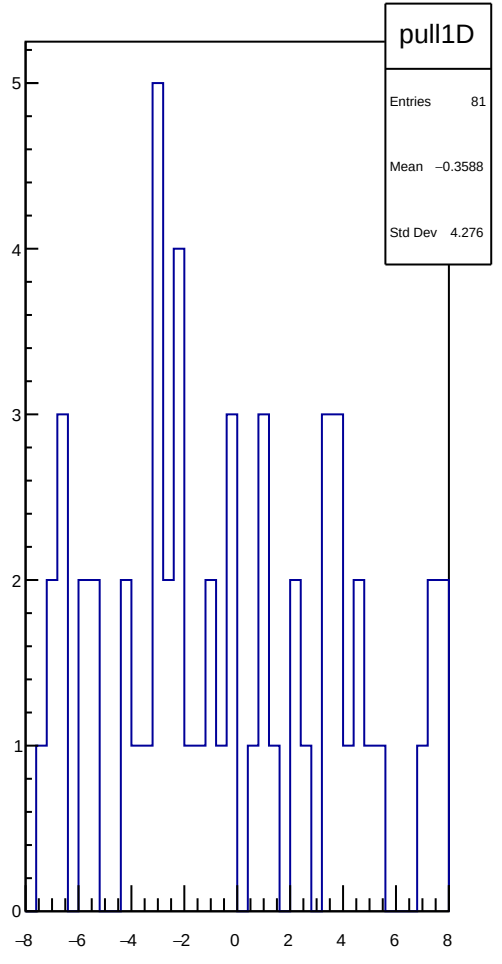

yield_bpm1i06WS_rms vs run
χ² / ndf 1681 / 80
p0 277.5 ± 0.2215
310
300
290
280
270
260

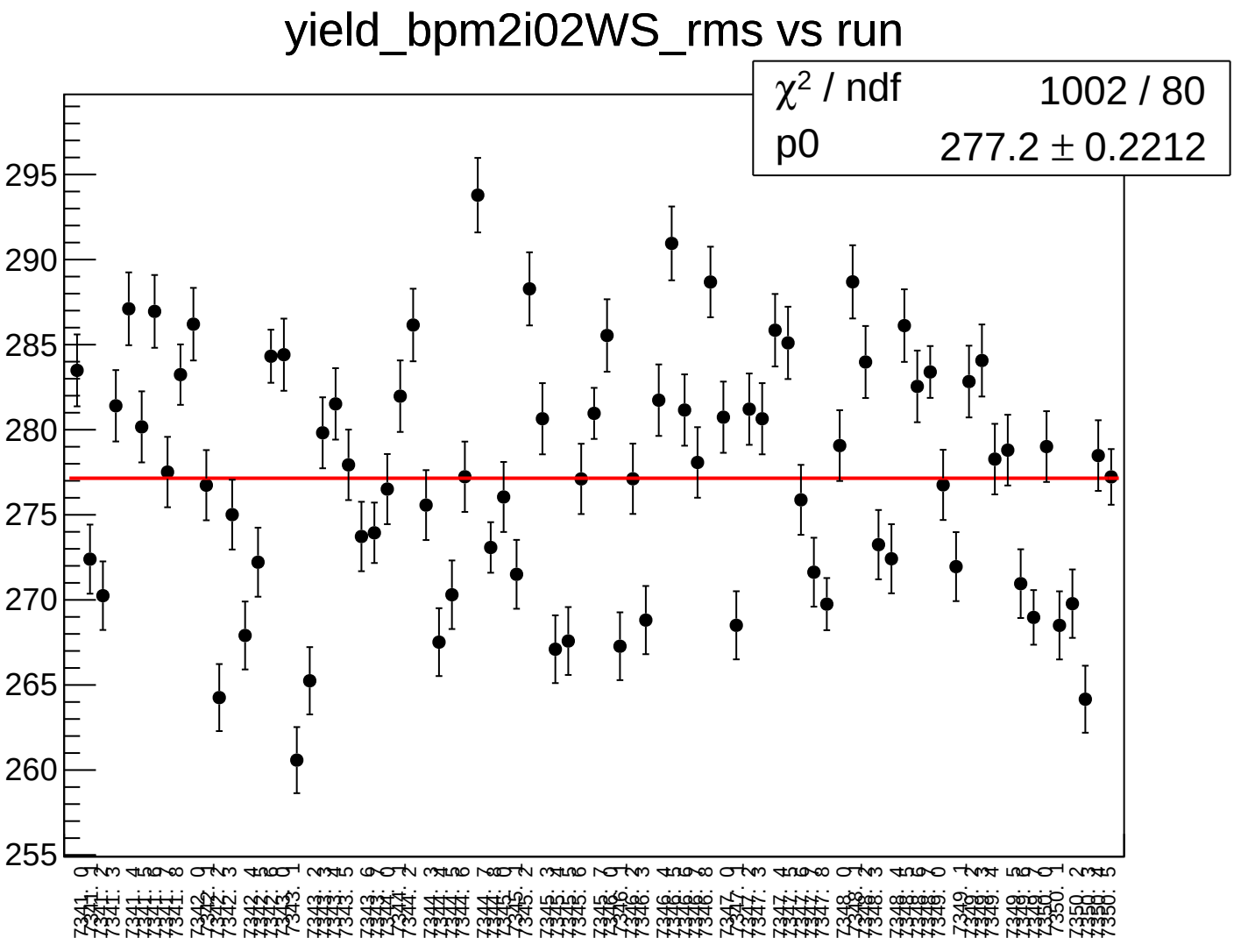

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2250 / 80
p0 1.266e+05 ± 0.3096
126.58
126.57
126.56
126.55
126.54
126.53
126.52
126.51
pull
Entries 81
Mean 2.884e+04
Std Dev 2.881e+04
5
0
−5
−10
−15

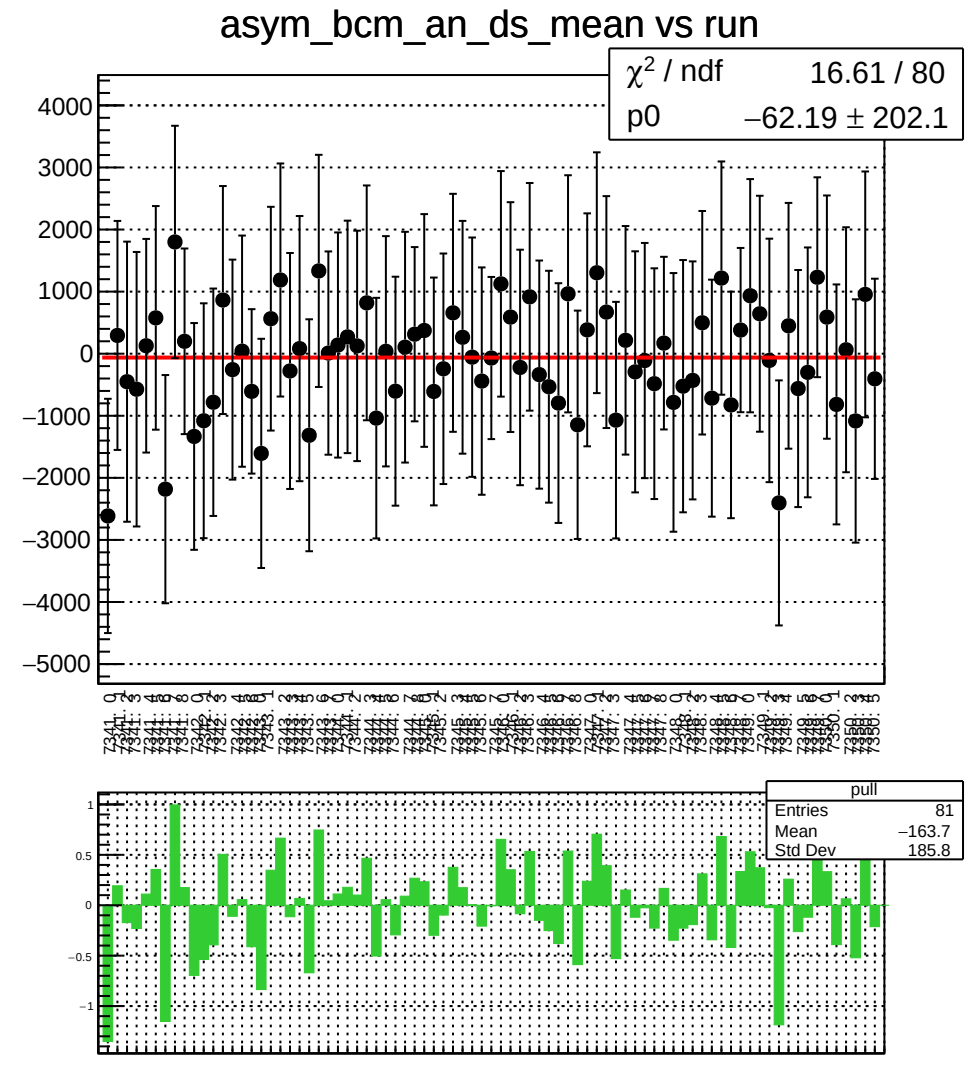

pull1D
Entries 81
Mean 1.85
Std Dev 3.003
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

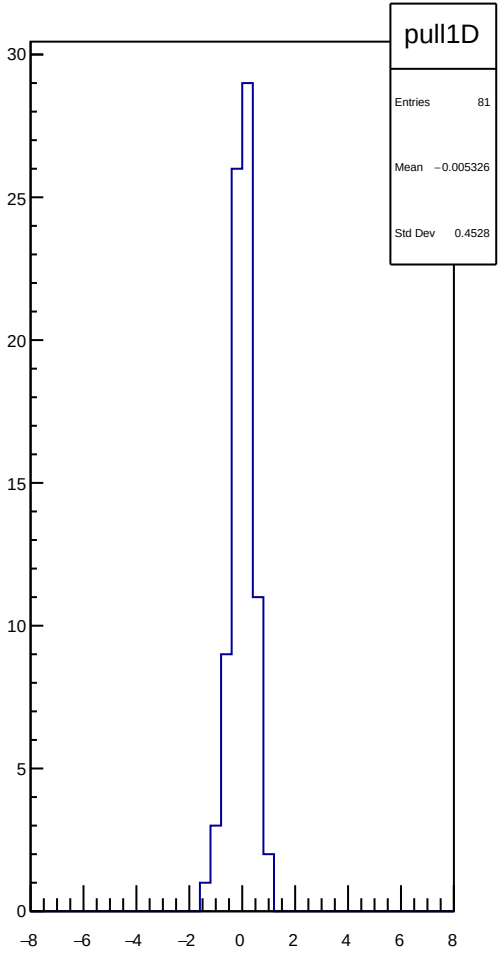

yield_bpm2i01WS_rms vs run
χ² / ndf 1048 / 80
p0 274.3 ± 0.2189
295
290
285
280
275
270
265
260
255

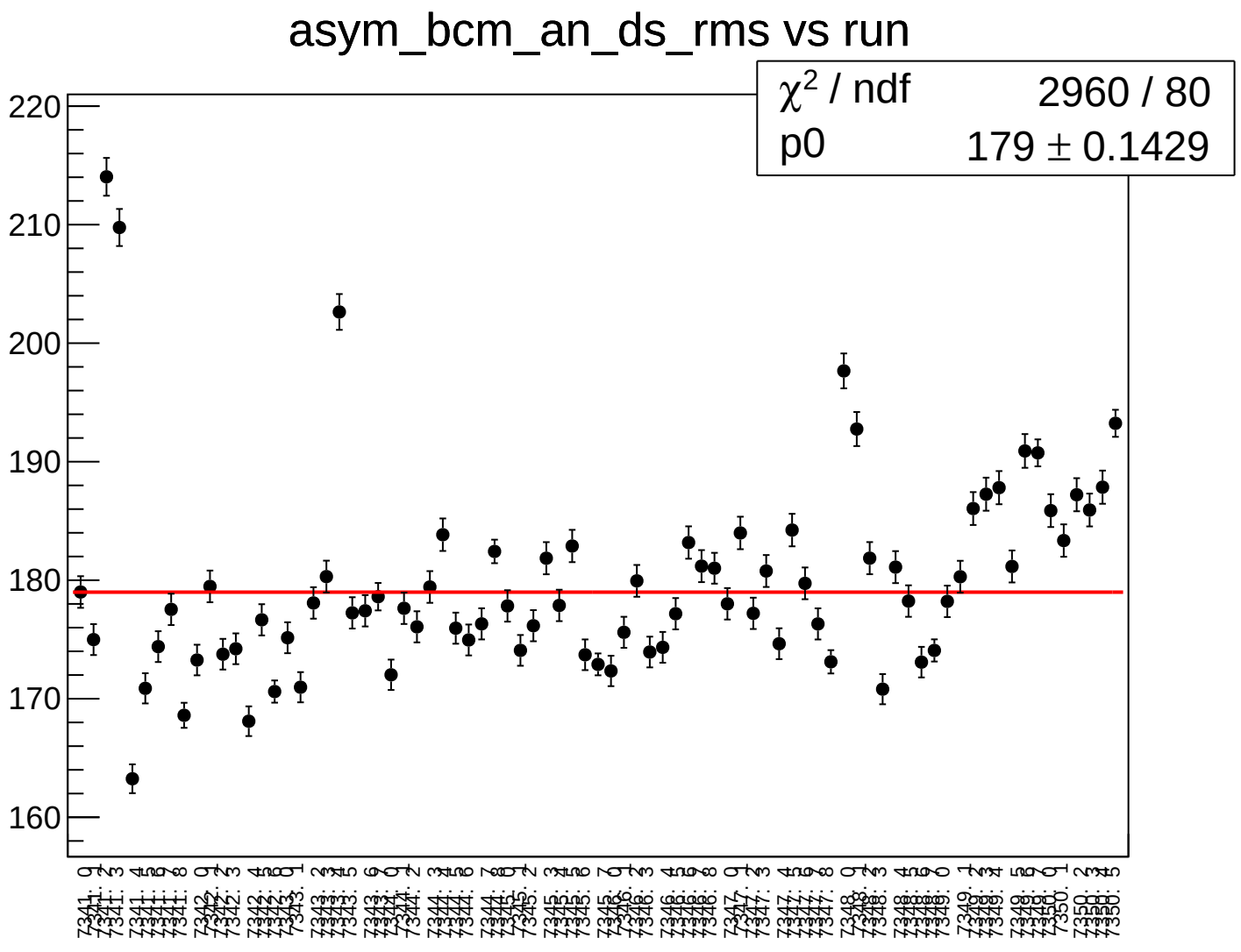

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 5789 / 80
p0 1.295e+05 ± 0.3128
129.58
129.56
129.54
129.52
129.5
129.48
129.46
129.44
pull
Entries 81
Mean −195.5
Std Dev 274
30
20
10
0
−10

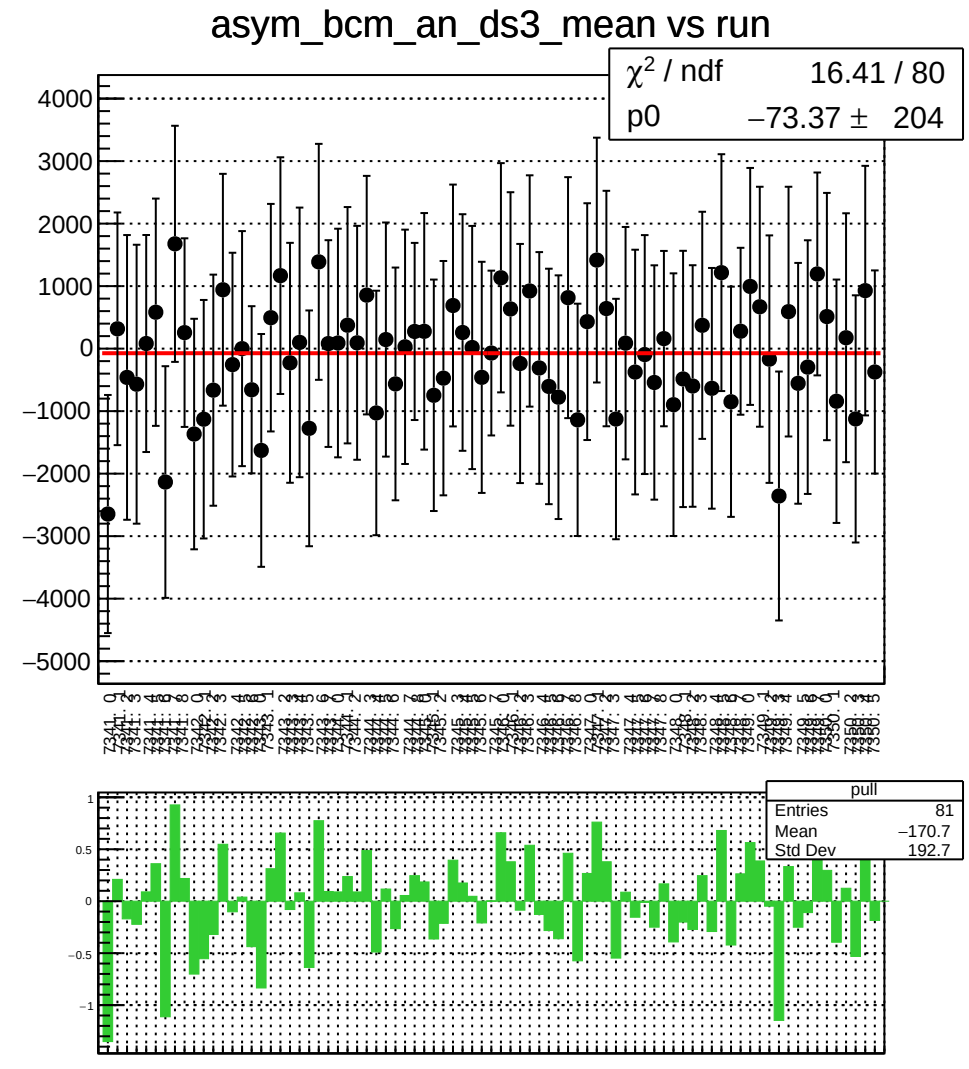

pull1D
Entries 81
Mean −0.3588
Std Dev 4.276
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

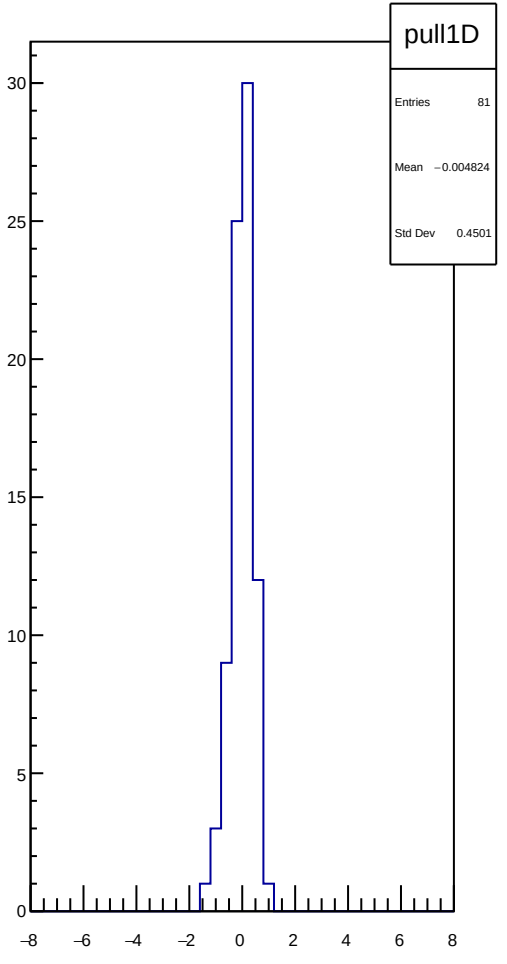

yield_bpm2i02WS_rms vs run
χ² / ndf 1002 / 80
p0 277.2 ± 0.2212
295
290
285
280
275
270
265
260
255

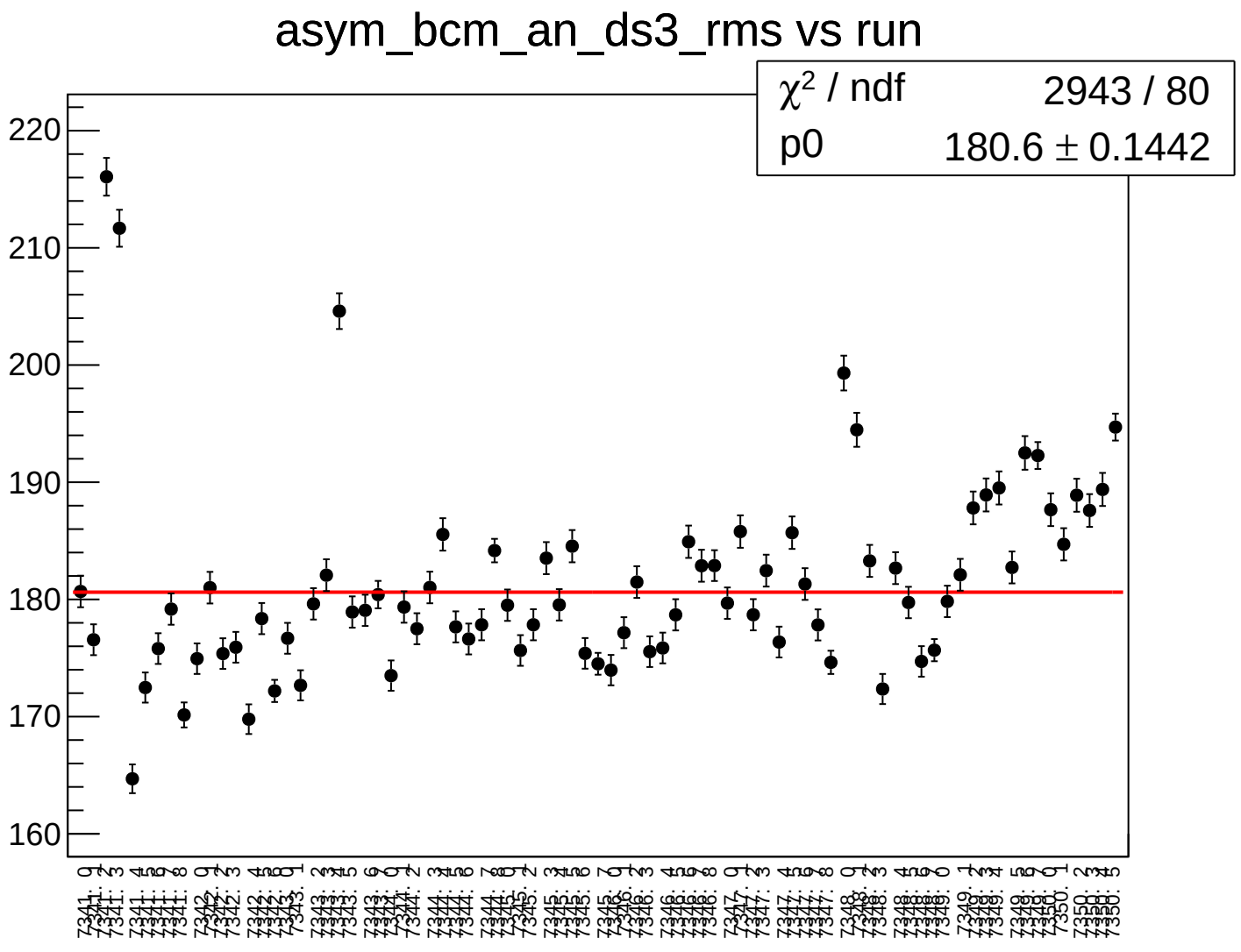

asym_bcm_an_ds_mean vs run
χ² / ndf 16.61 / 80
p0 −62.19 ± 202.1
pull
Entries 81
Mean −163.7
Std Dev 185.8

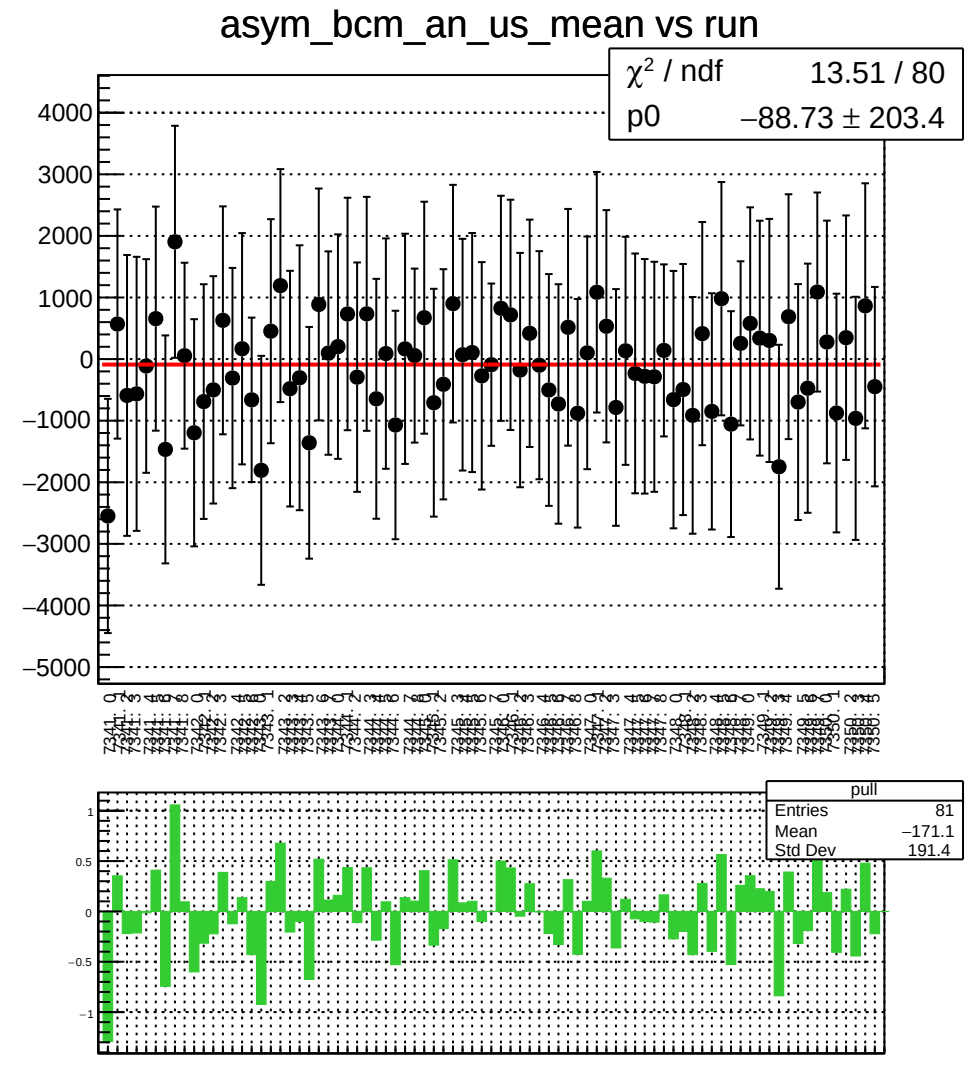

pull1D
Entries 81
Mean −0.005326
Std Dev 0.4528

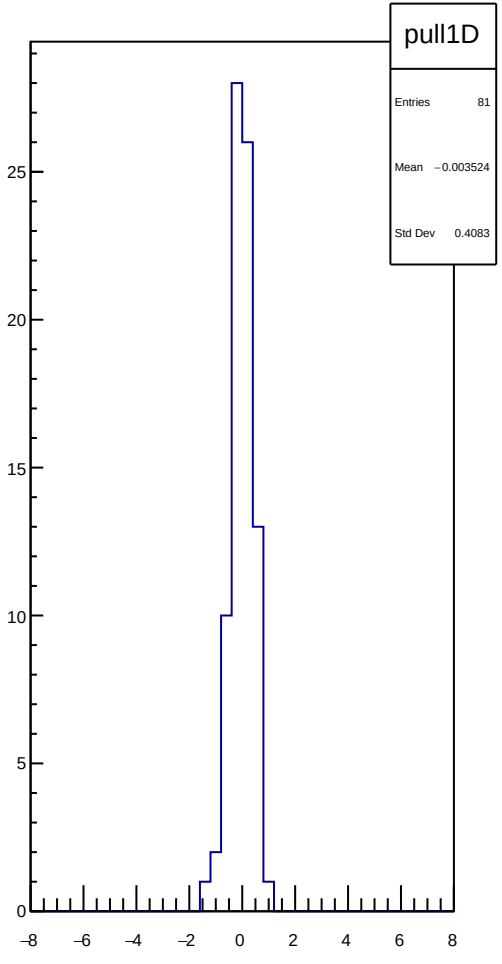

asym_bcm_an_ds_rms vs run
χ² / ndf 2960 / 80
p0 179 ± 0.1429
220
210
200
190
180
170
160

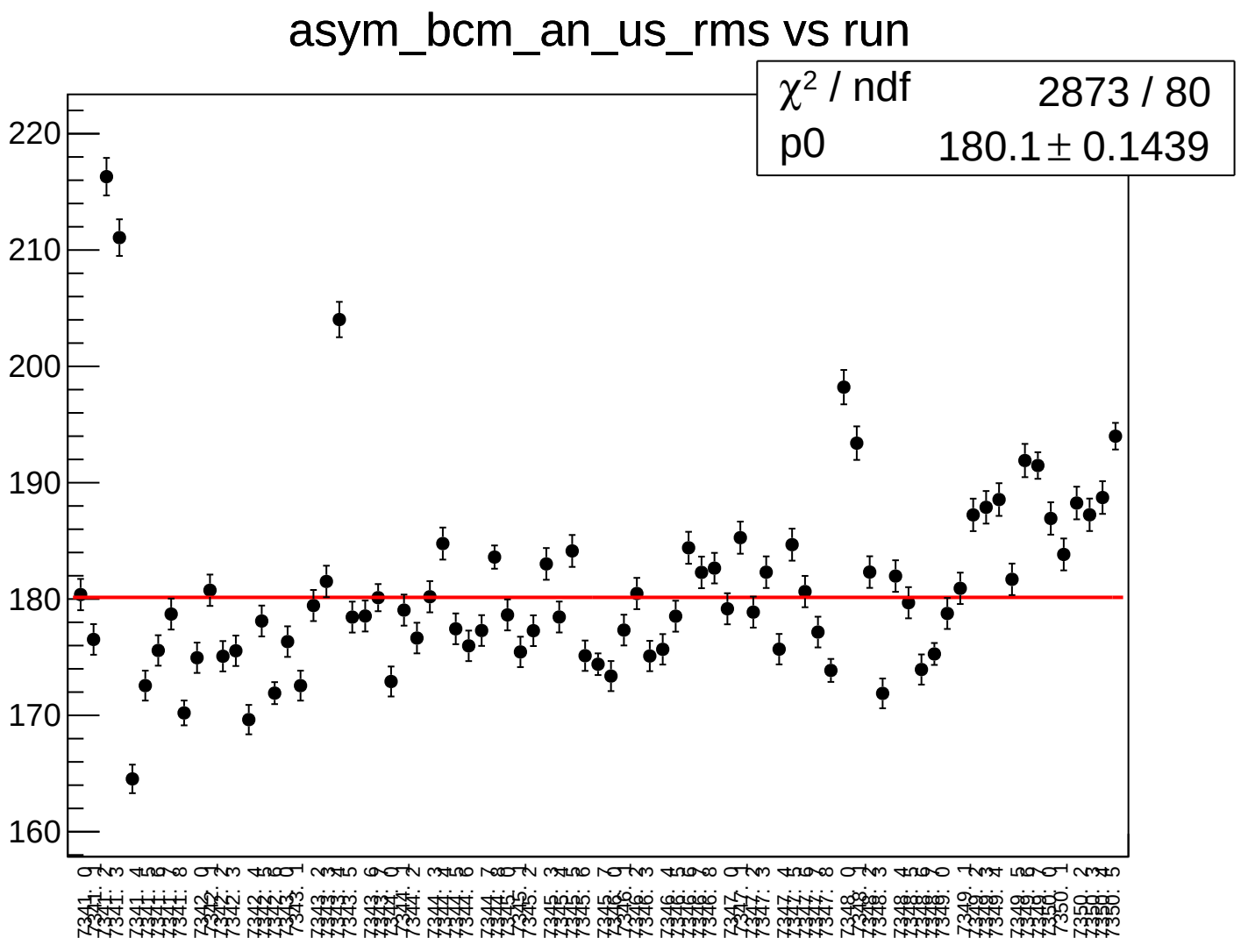

asym_bcm_an_ds3_mean vs run
χ² / ndf 16.41 / 80
p0 −73.37 ± 204
pull
Entries 81
Mean −170.7
Std Dev 192.7

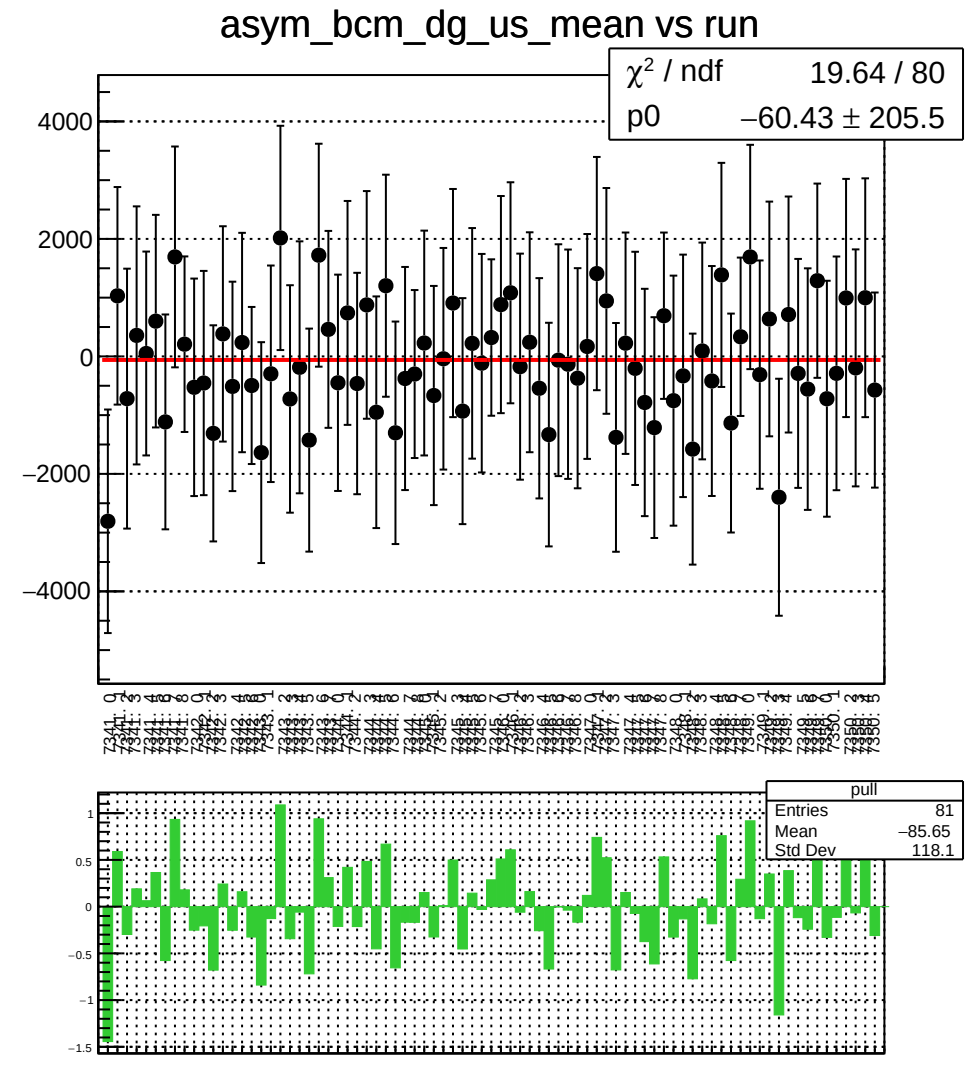

pull1D
Entries 81
Mean −0.004824
Std Dev 0.4501

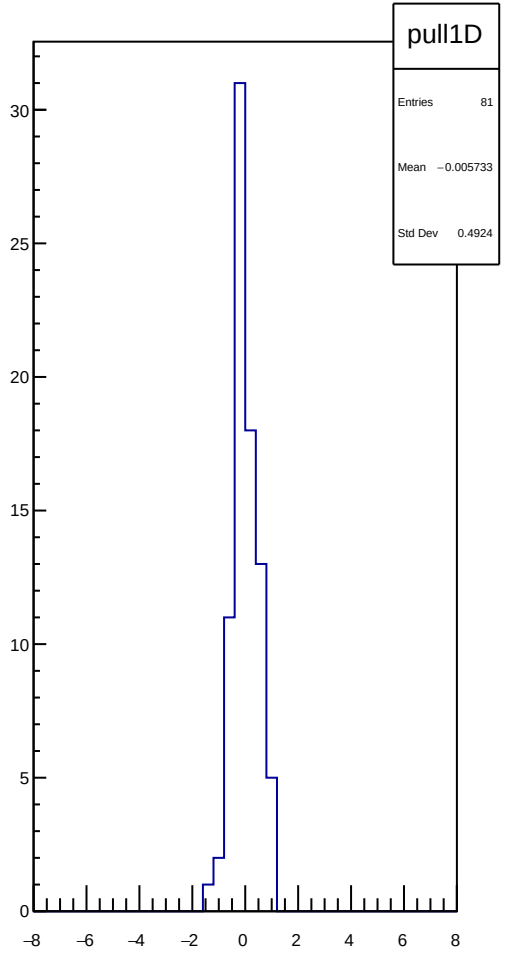

asym_bcm_an_ds3_rms vs run
χ² / ndf 2943 / 80
p0 180.6 ± 0.1442
220
210
200
190
180
170
160

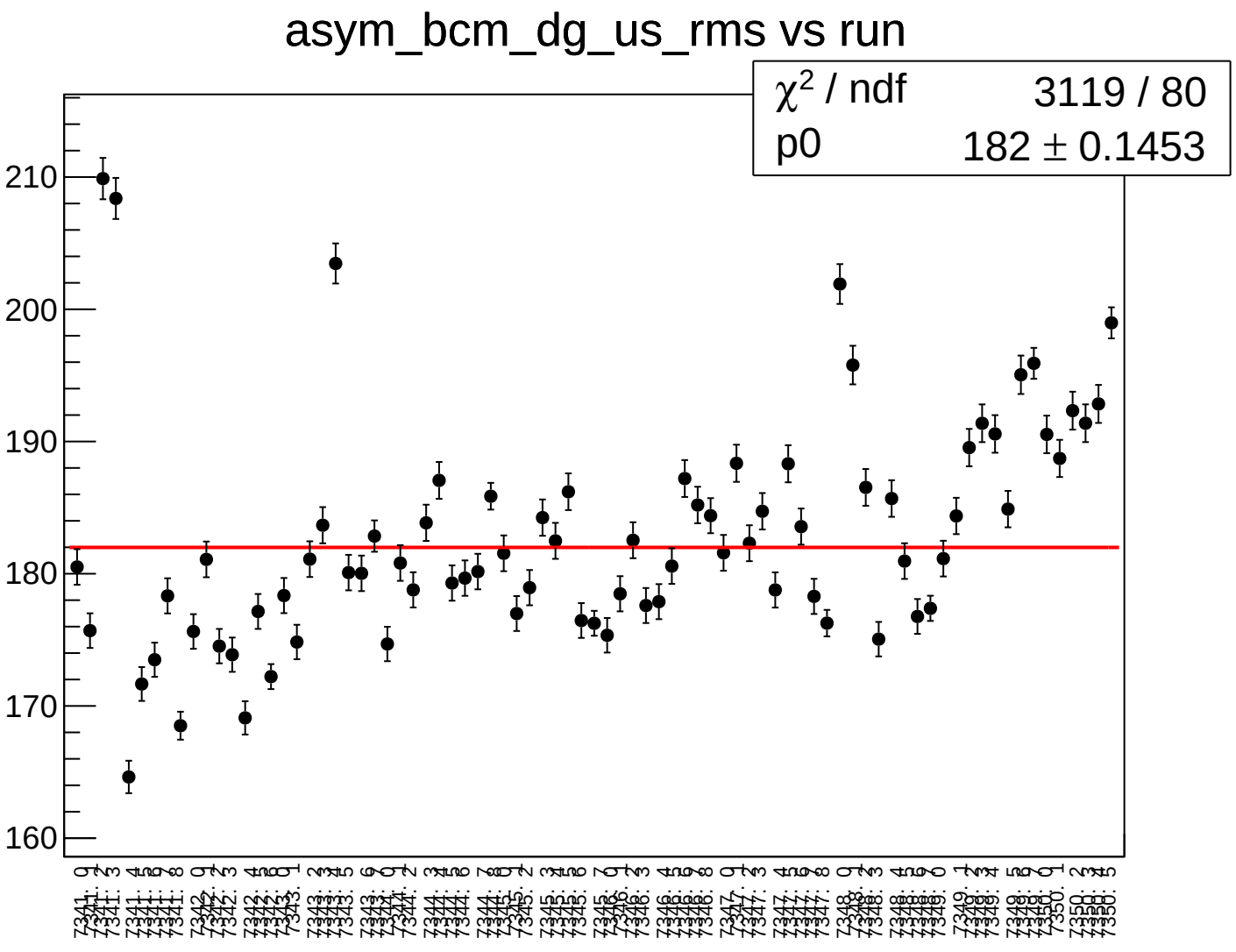

asym_bcm_an_us_mean vs run
χ² / ndf 13.51 / 80
p0 −88.73 ± 203.4
pull
Entries 81
Mean −171.1
Std Dev 191.4

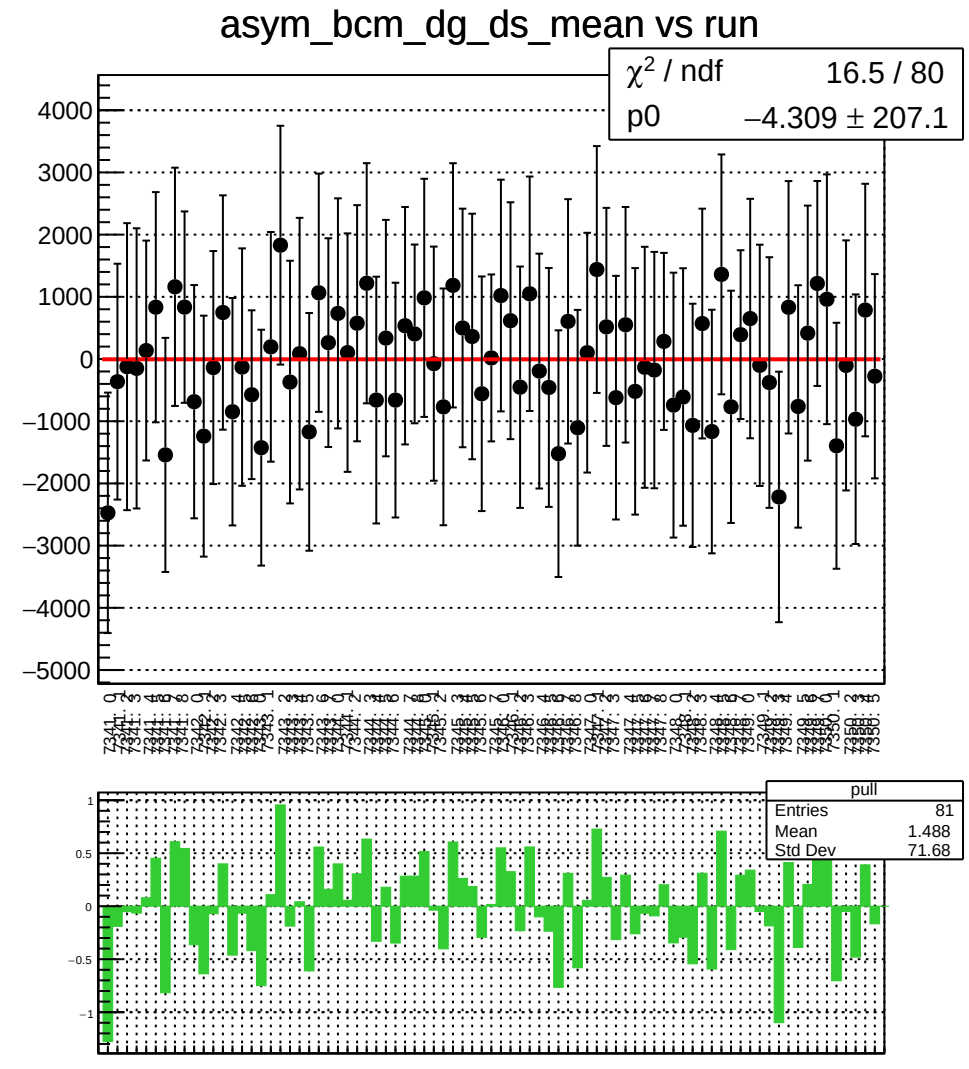

pull1D
Entries 81
Mean −0.003524
Std Dev 0.4083

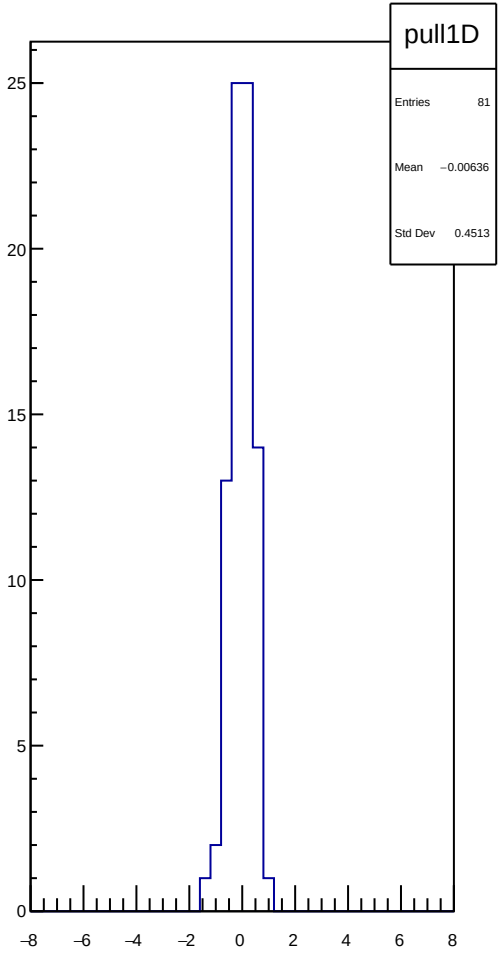

asym_bcm_an_us_rms vs run
χ² / ndf 2873 / 80
p0 180.1 ± 0.1439
220
210
200
190
180
170
160

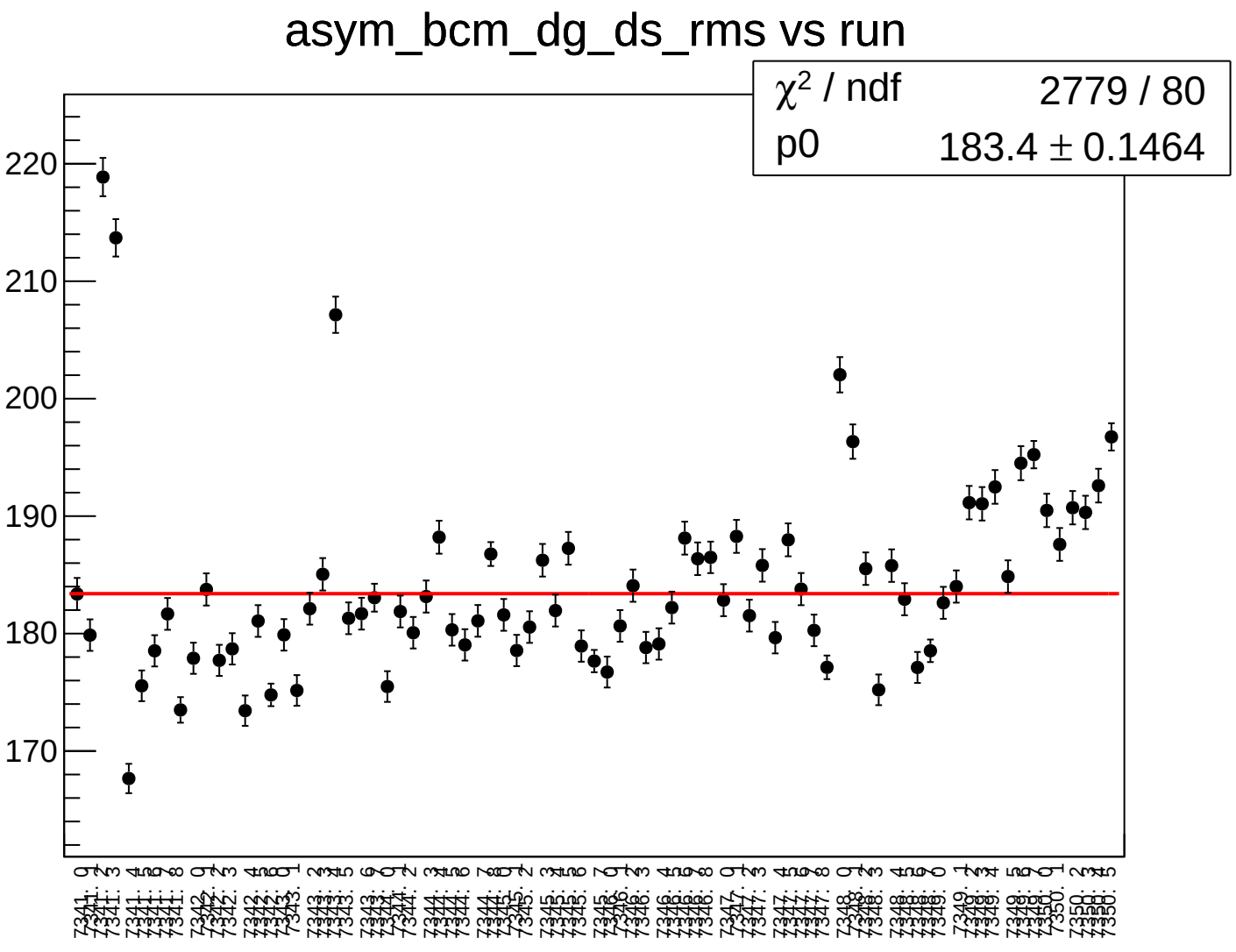

asym_bcm_dg_us_mean vs run
χ² / ndf 19.64 / 80
p0 −60.43 ± 205.5
4000
2000
0
−2000
−4000
pull
Entries 81
Mean −85.65
Std Dev 118.1
1
0.5
0
−0.5
−1
−1.5

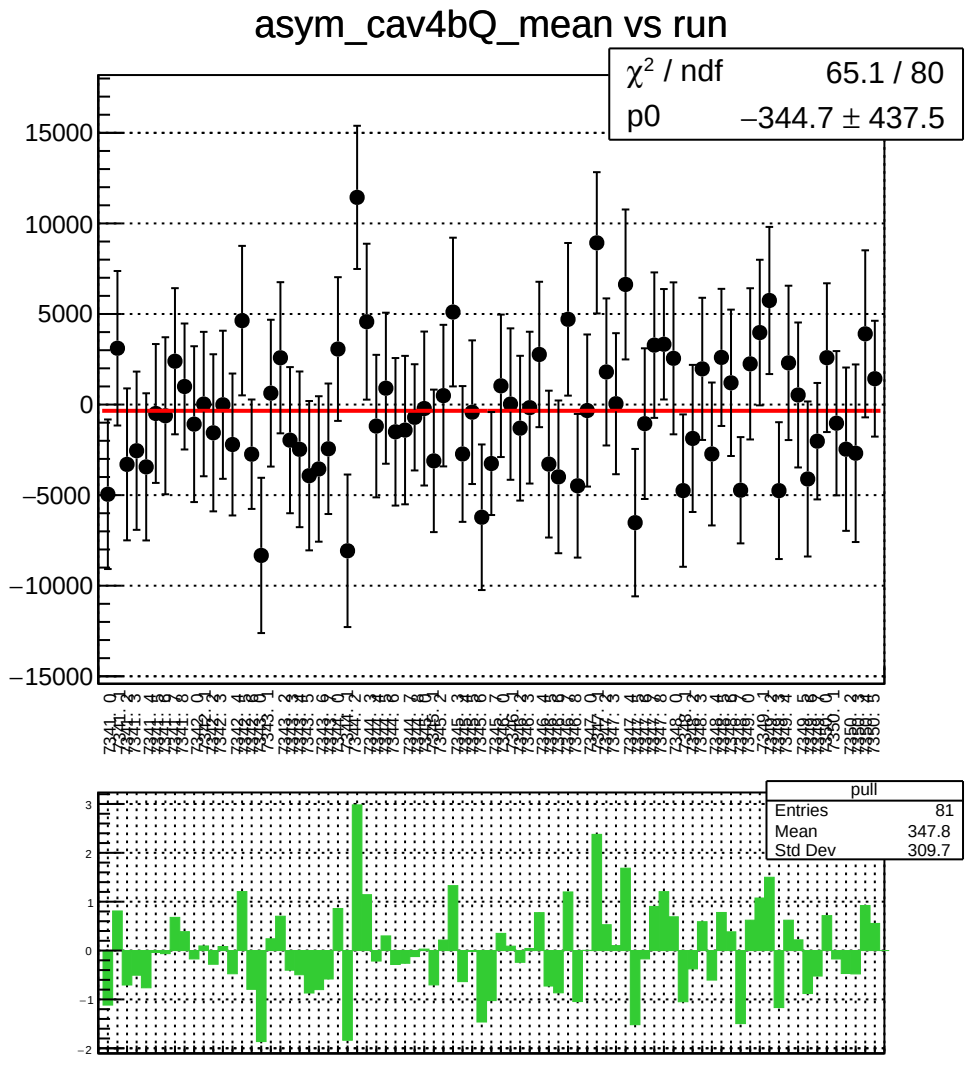

pull1D
Entries 81
Mean −0.005733
Std Dev 0.4924
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

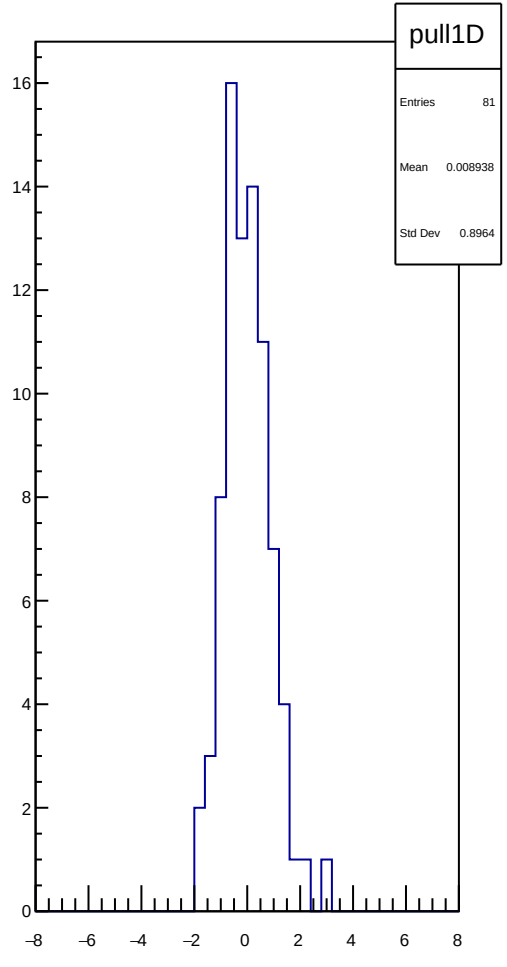

asym_bcm_dg_us_rms vs run
χ^2 / ndf 3119 / 80
p0 182 ± 0.1453
210
200
190
180
170
160

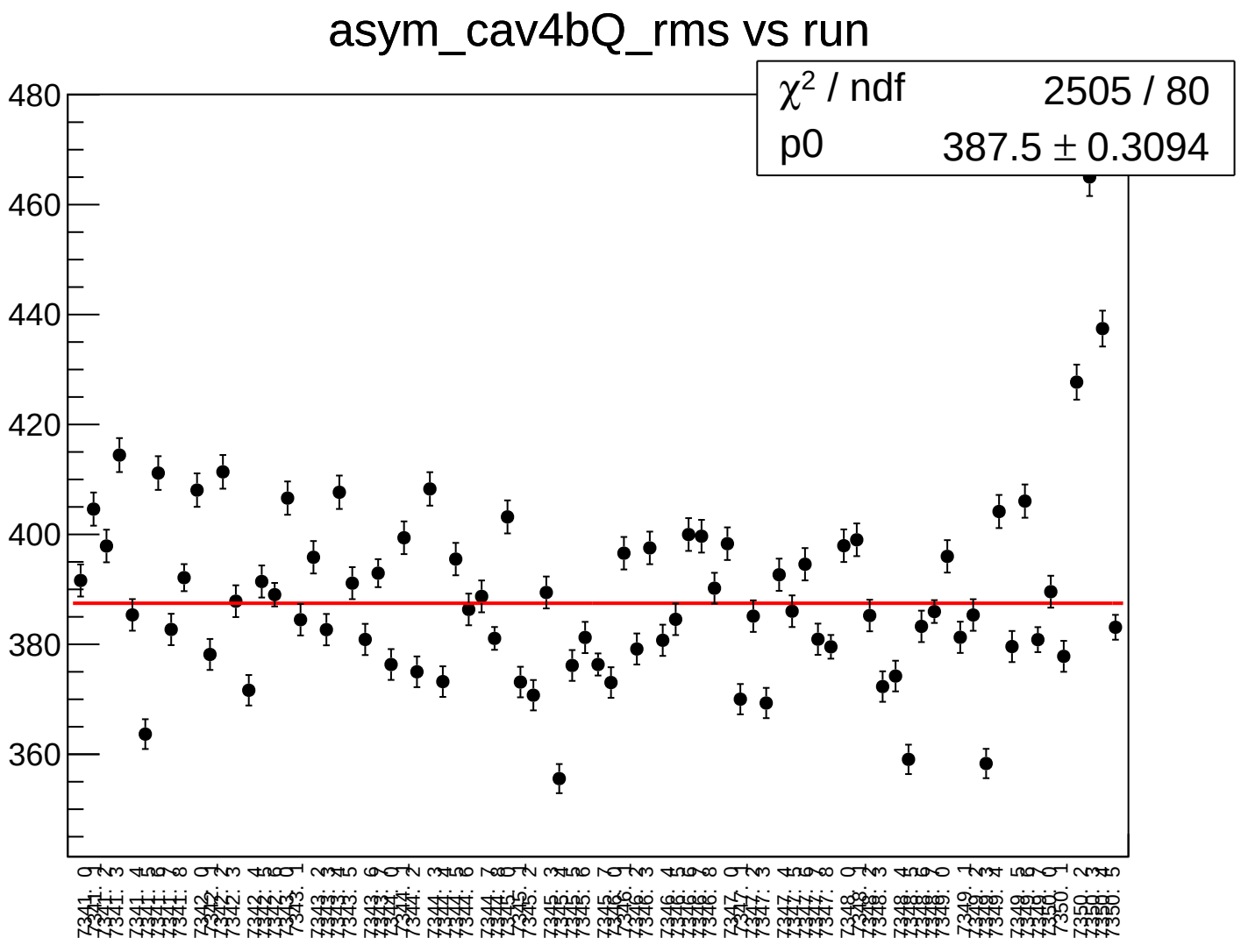

asym_bcm_dg_ds_mean vs run
χ² / ndf 16.5 / 80
p0 −4.309 ± 207.1
pull
Entries 81
Mean 1.488
Std Dev 71.68

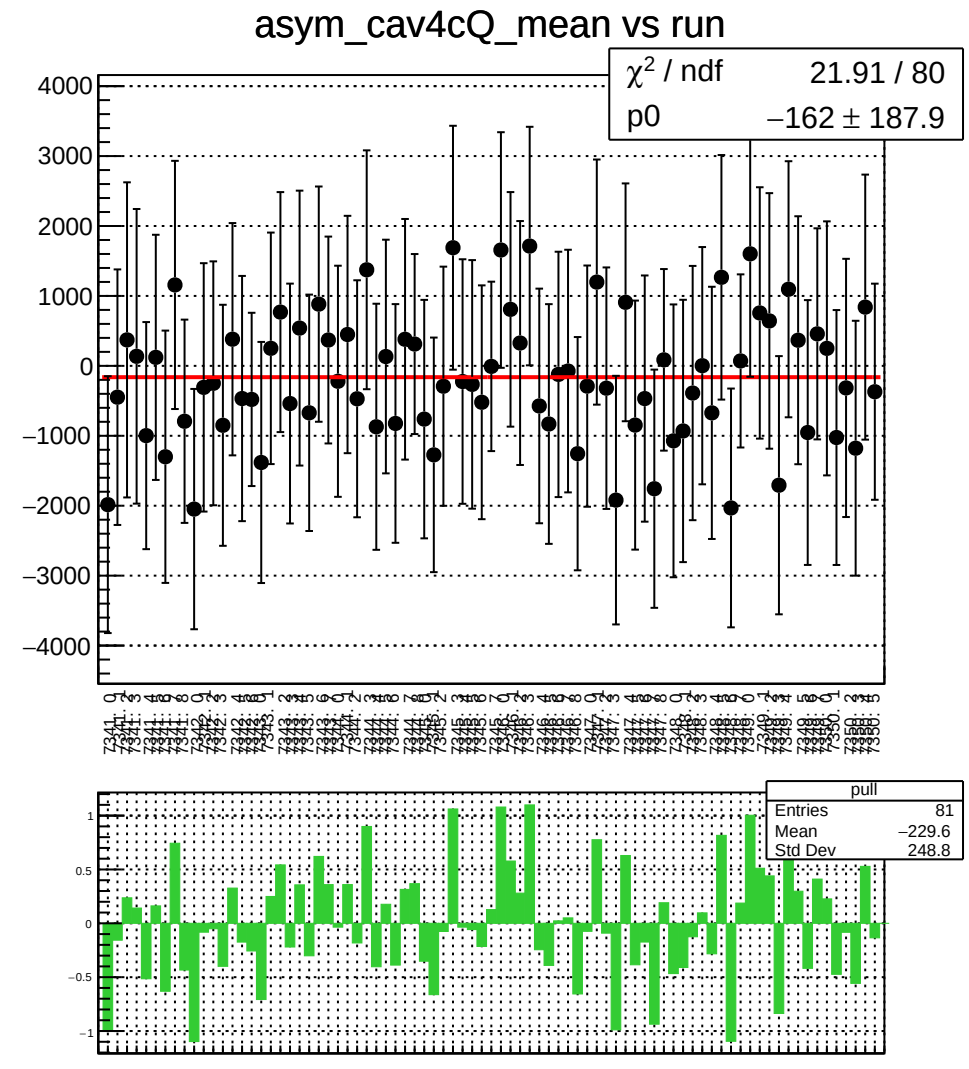

pull1D
Entries 81
Mean −0.00636
Std Dev 0.4513

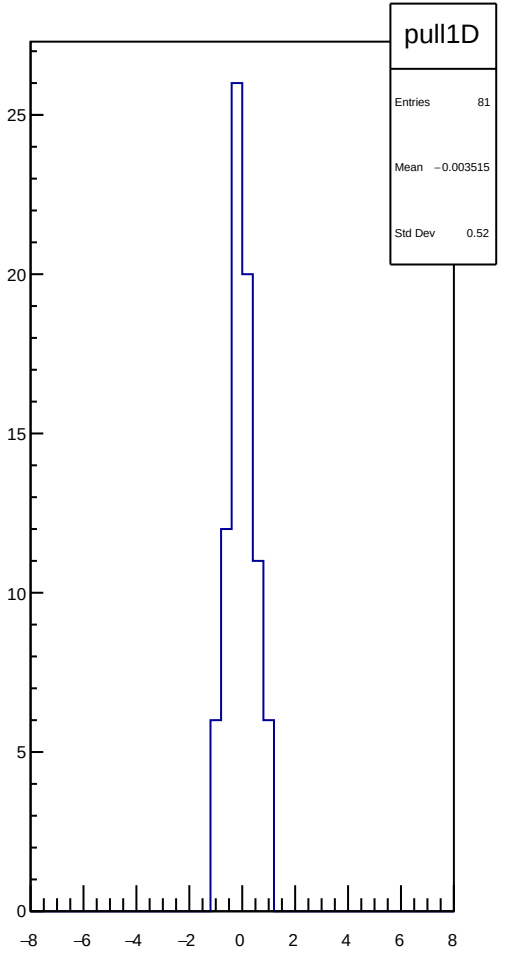

asym_bcm_dg_ds_rms vs run
χ² / ndf 2779 / 80
p0 183.4 ± 0.1464
220
210
200
190
180
170

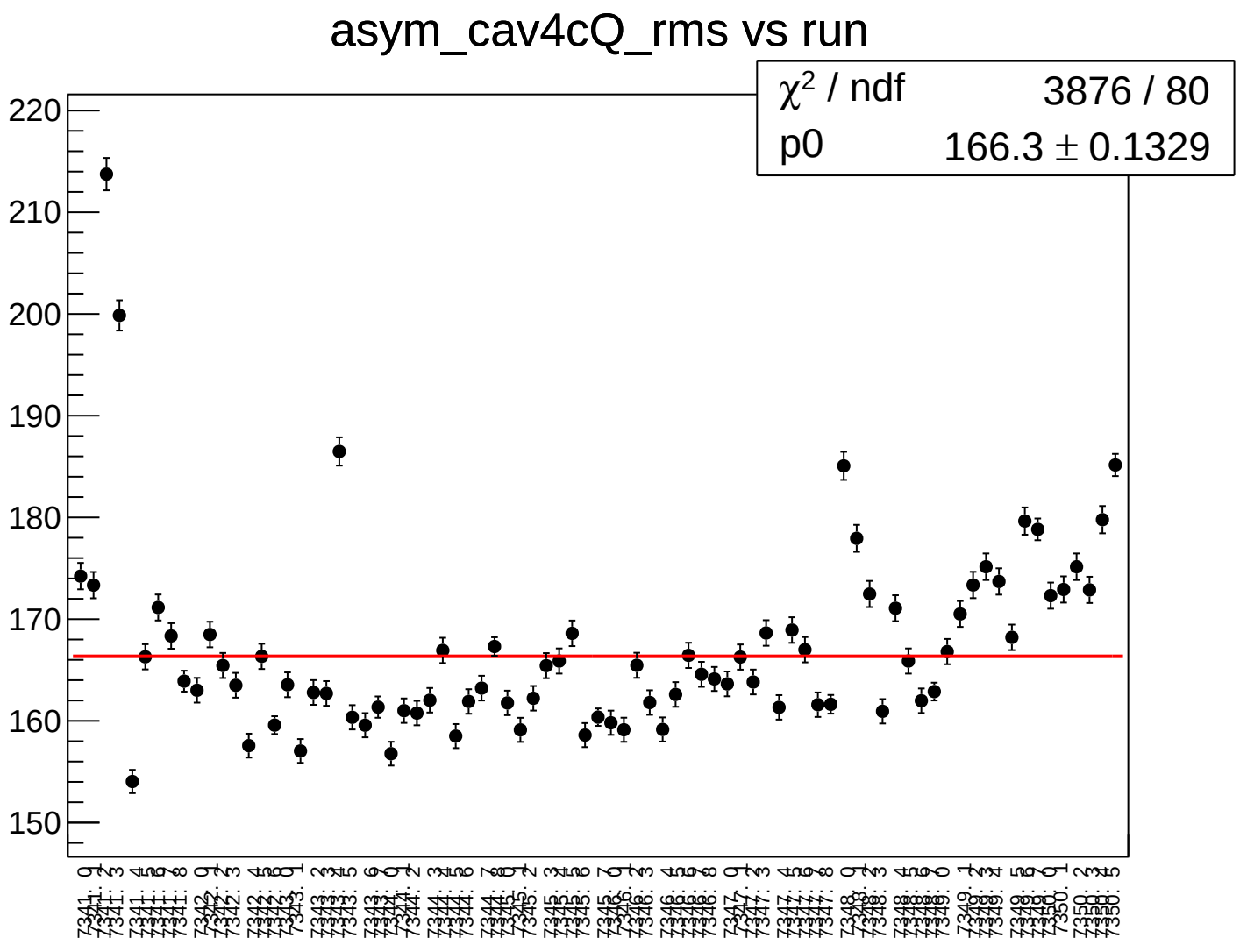

asym_cav4bQ_mean vs run
χ² / ndf 65.1 / 80
p0 −344.7 ± 437.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 347.8
Std Dev 309.7
3
2
1
0
−1
−2

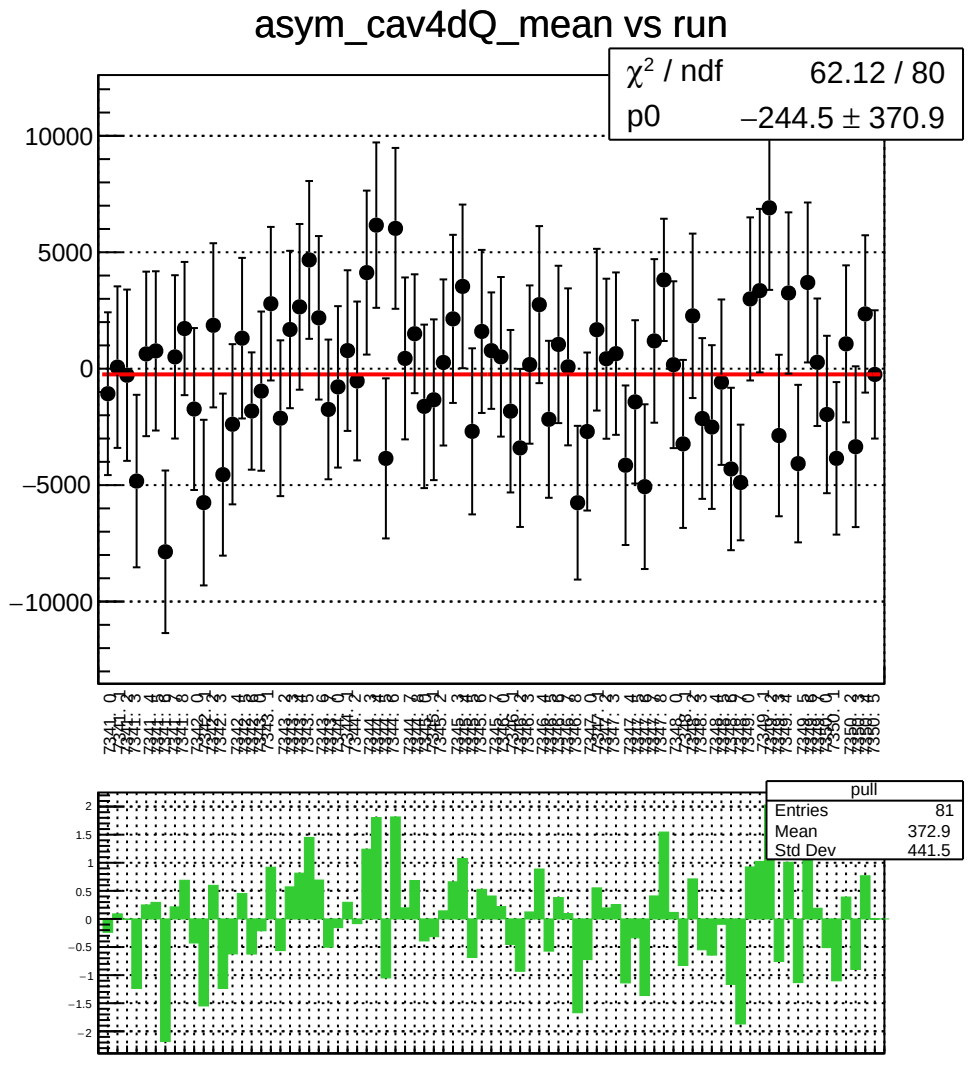

pull1D
Entries 81
Mean 0.008938
Std Dev 0.8964
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

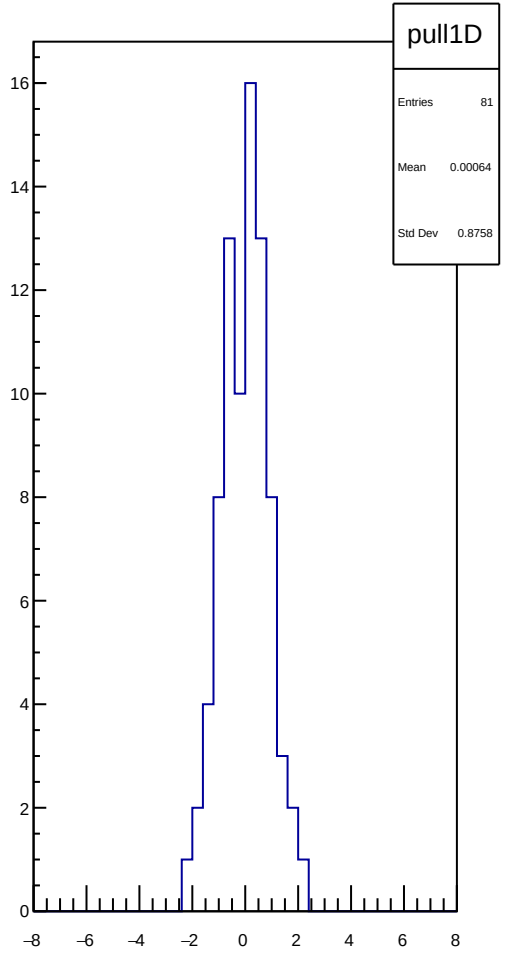

asym_cav4bQ_rms vs run
χ² / ndf 2505 / 80
p0 387.5 ± 0.3094
480
460
440
420
400
380
360

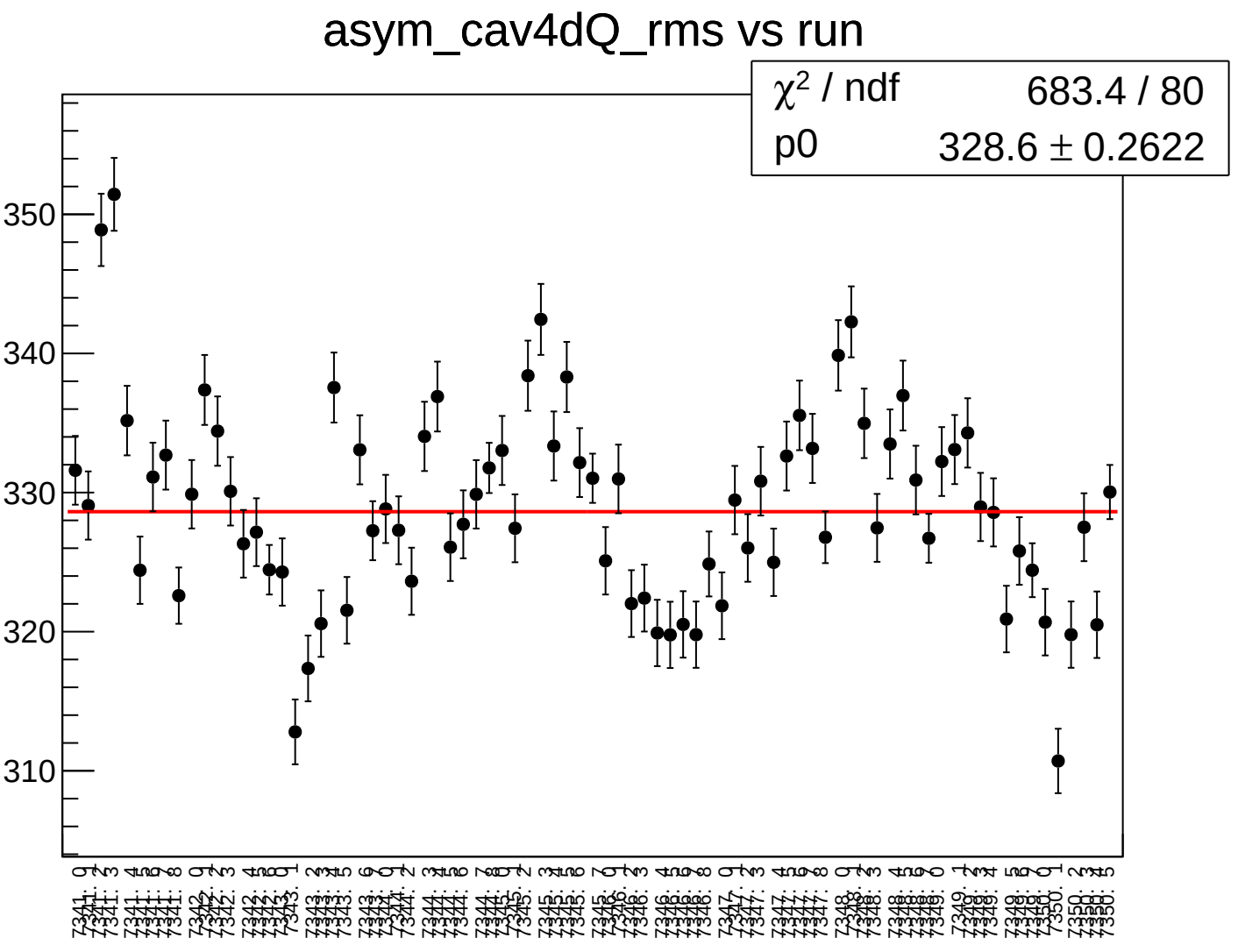

asym_cav4cQ_mean vs run
χ² / ndf 21.91 / 80
p0 −162 ± 187.9
pull
Entries 81
Mean −229.6
Std Dev 248.8

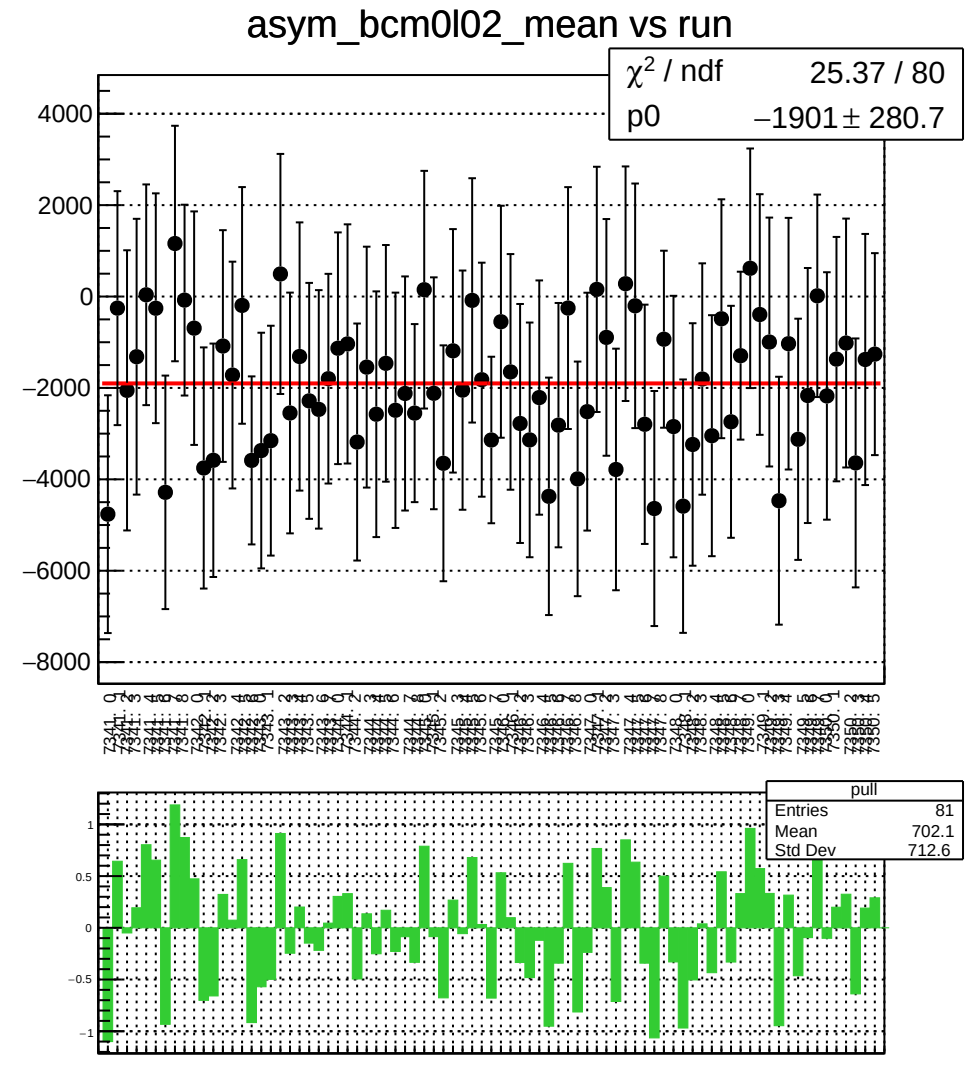

pull1D
Entries 81
Mean −0.003515
Std Dev 0.52

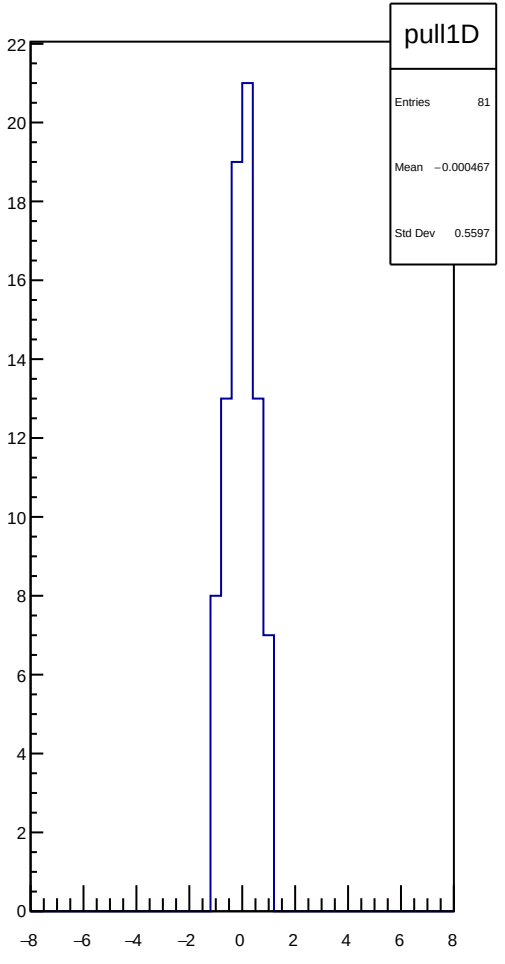

asym_cav4cQ_rms vs run
χ² / ndf 3876 / 80
p0 166.3 ± 0.1329
220
210
200
190
180
170
160
150

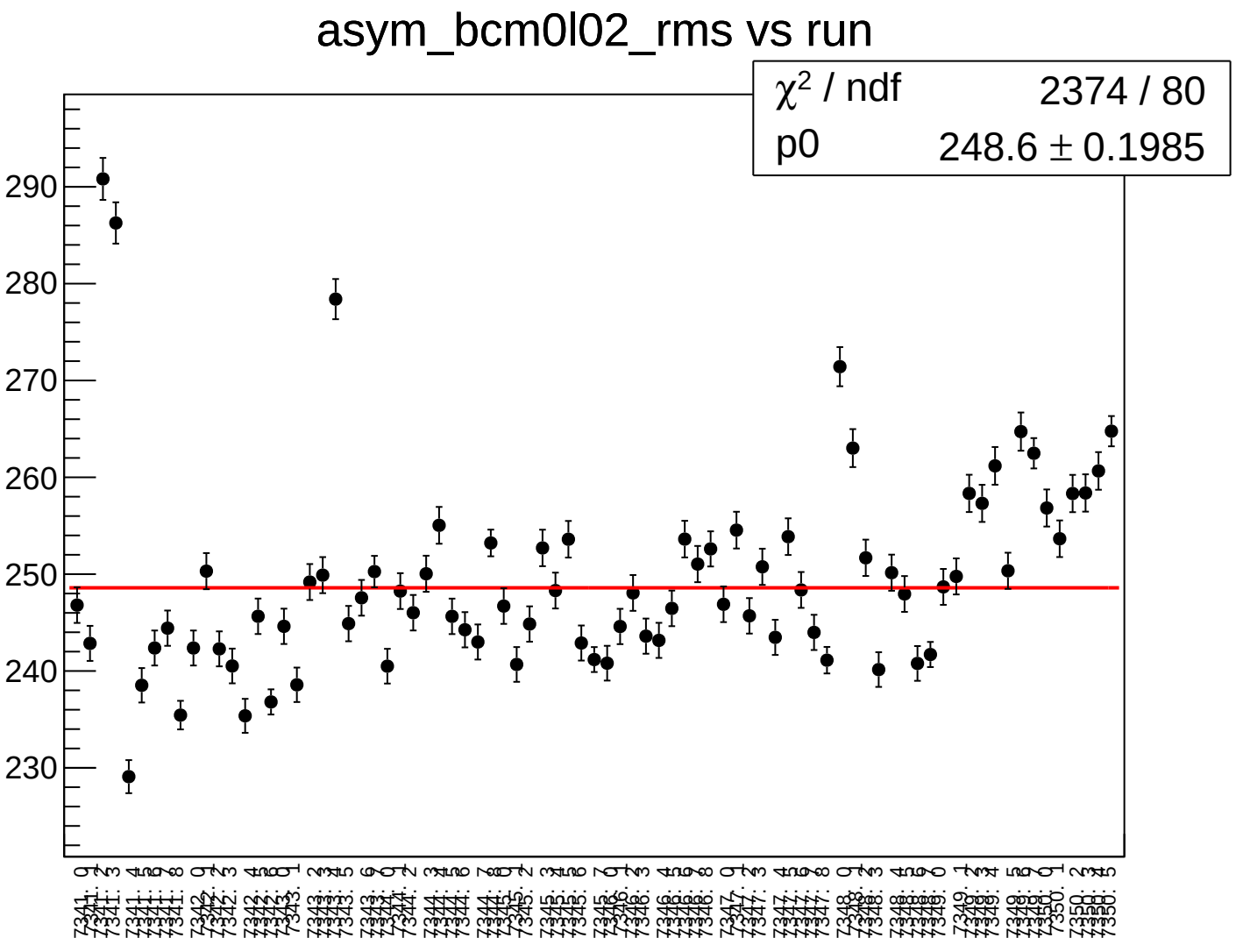

asym_cav4dQ_mean vs run
χ² / ndf 62.12 / 80
p0 −244.5 ± 370.9
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 372.9
Std Dev 441.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

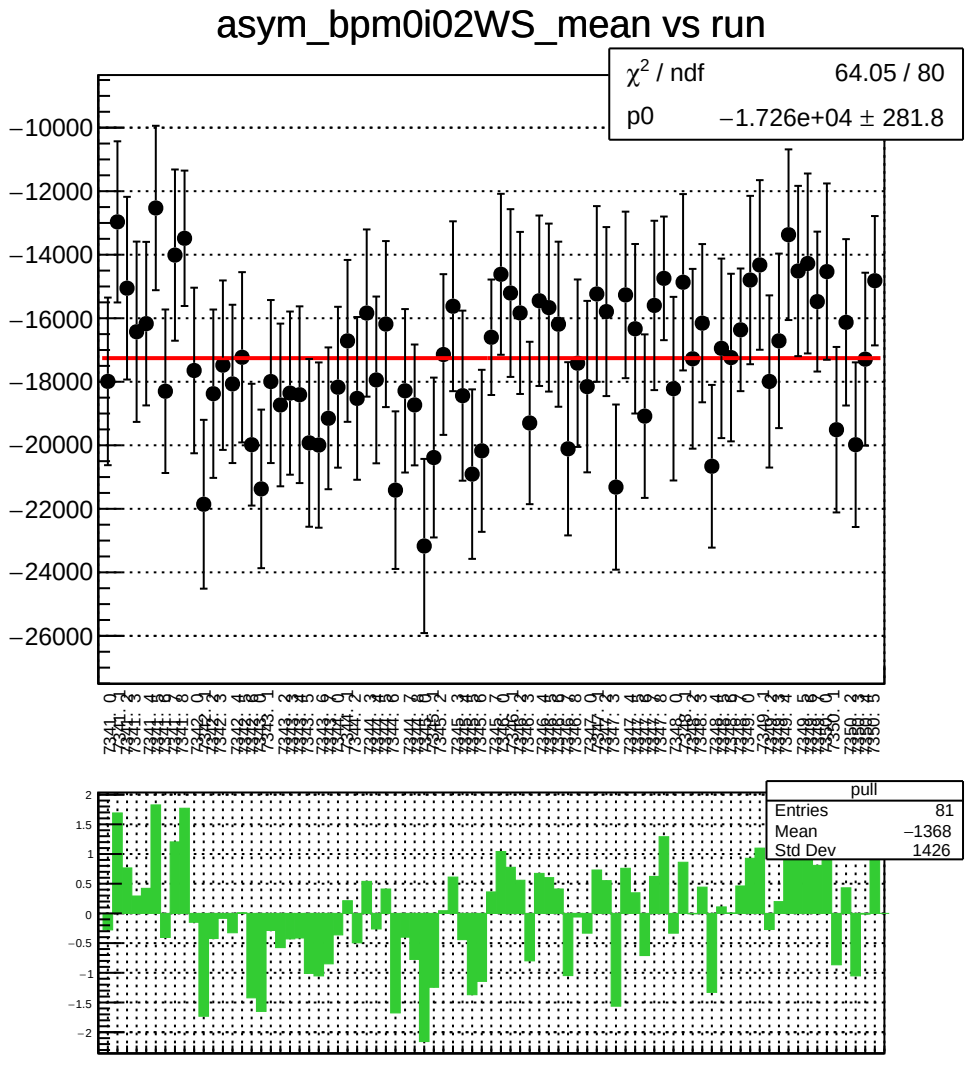

pull1D
Entries 81
Mean 0.00064
Std Dev 0.8758
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

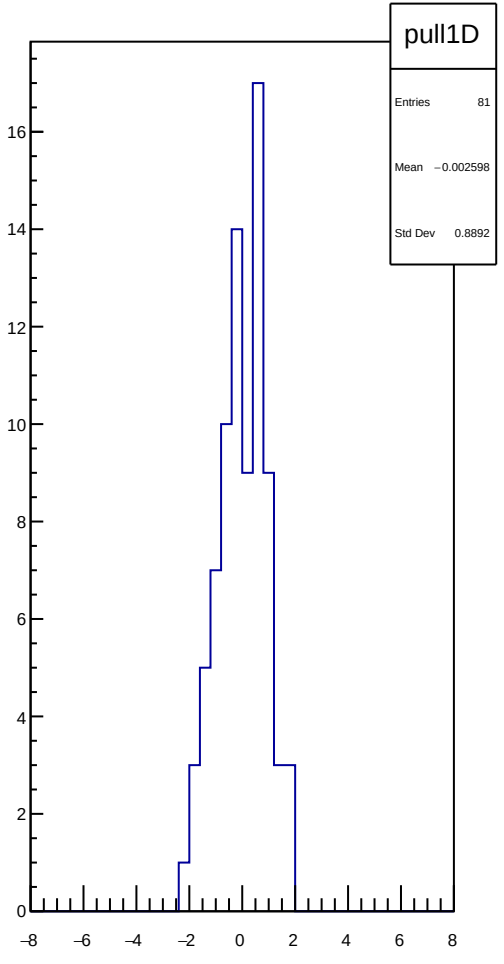

asym_cav4dQ_rms vs run
χ² / ndf 683.4 / 80
p0 328.6 ± 0.2622
350
340
330
320
310

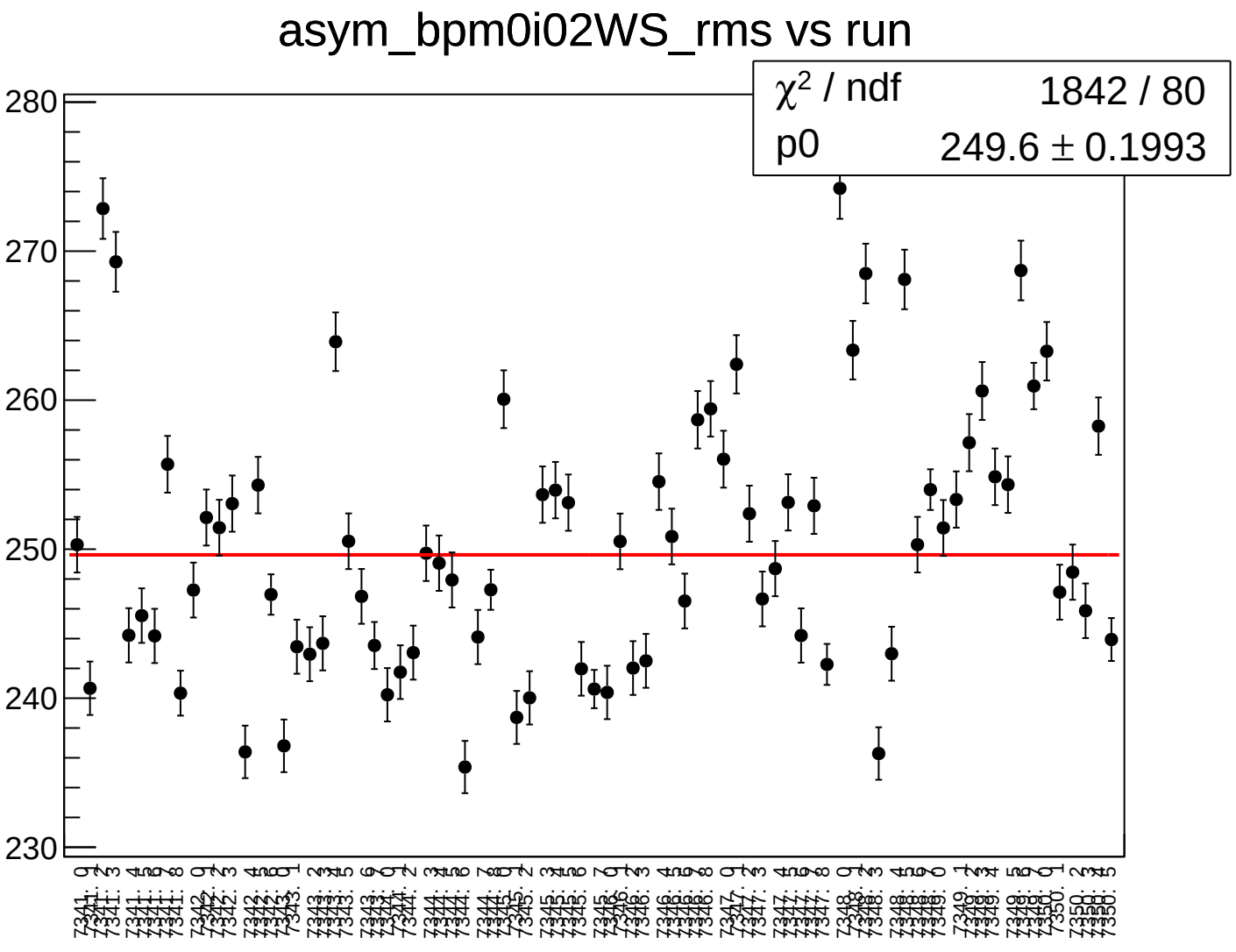

asym_bcm0l02_mean vs run
χ^2 / ndf 25.37 / 80
p0 −1901 ± 280.7
pull
Entries 81
Mean 702.1
Std Dev 712.6

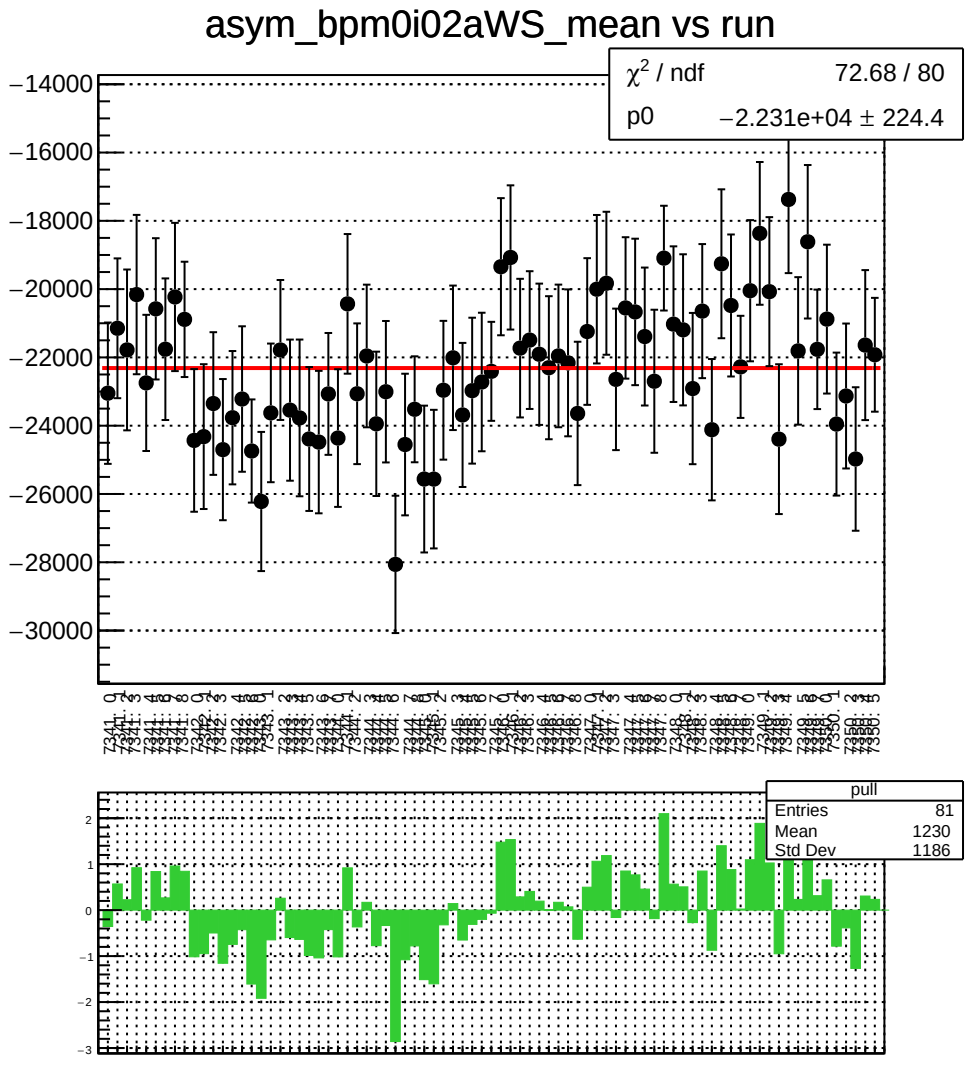

pull1D
Entries 81
Mean −0.000467
Std Dev 0.5597

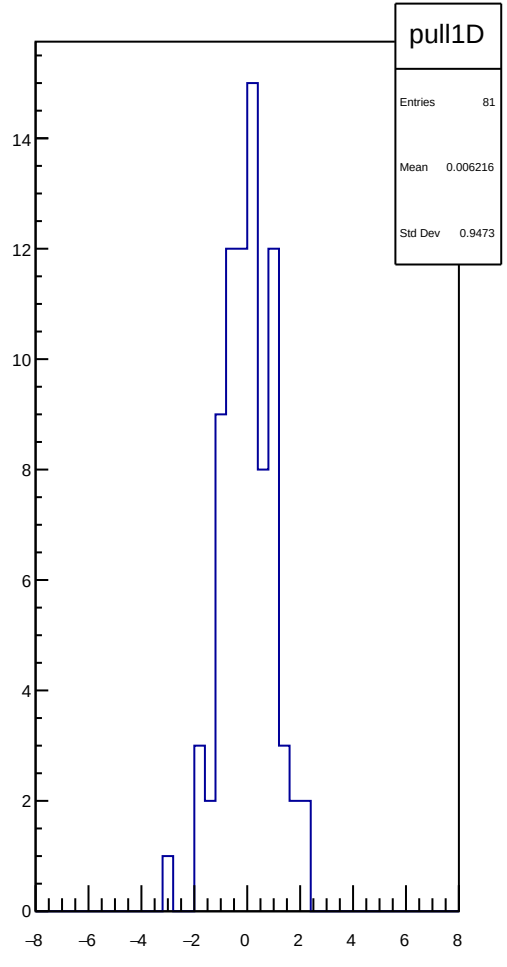

asym_bcm0l02_rms vs run
χ^2 / ndf 2374 / 80
p0 248.6 ± 0.1985
290
280
270
260
250
240
230

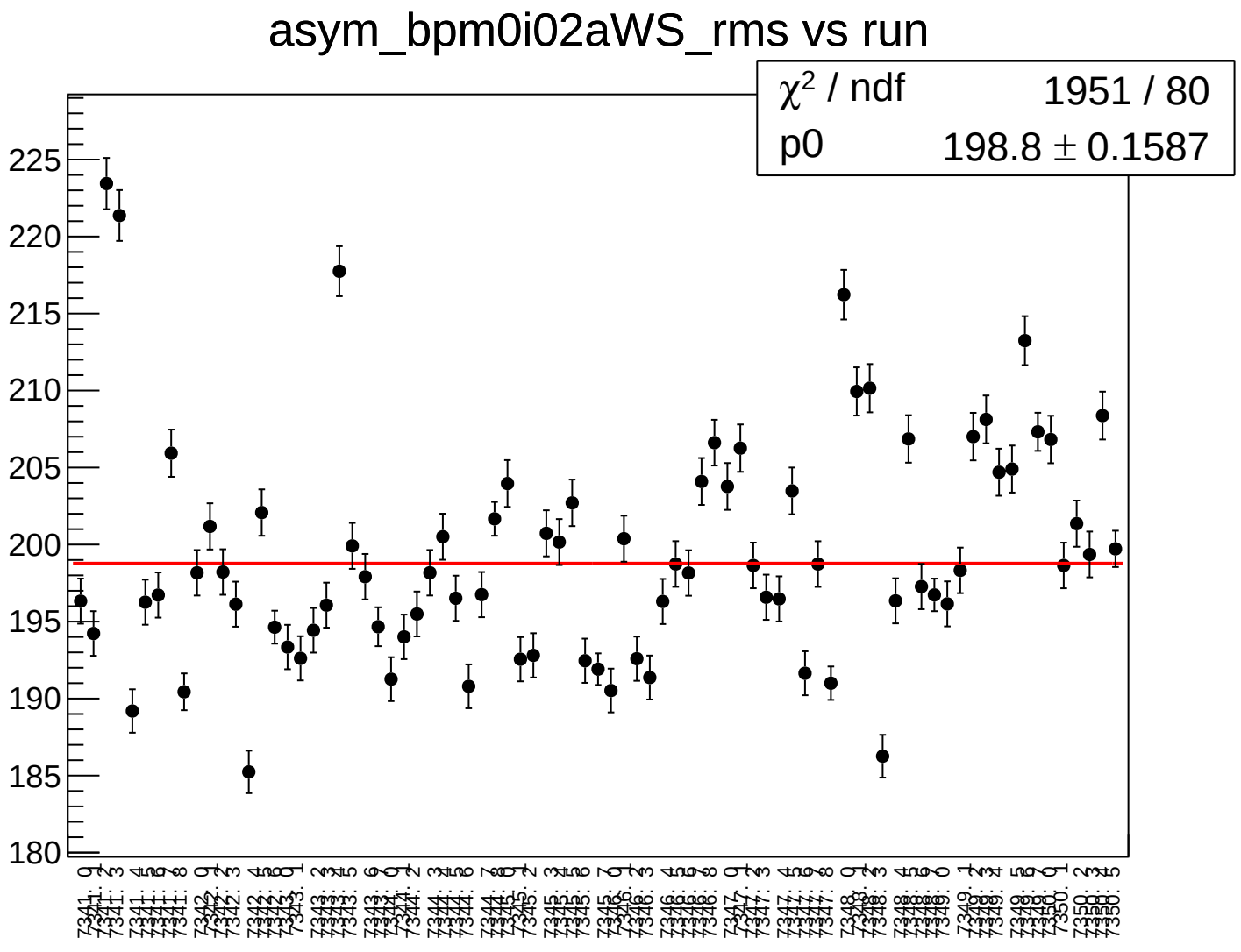

asym_bpm0i02WS_mean vs run
χ² / ndf 64.05 / 80
p0 −1.726e+04 ± 281.8
pull
Entries 81
Mean −1368
Std Dev 1426

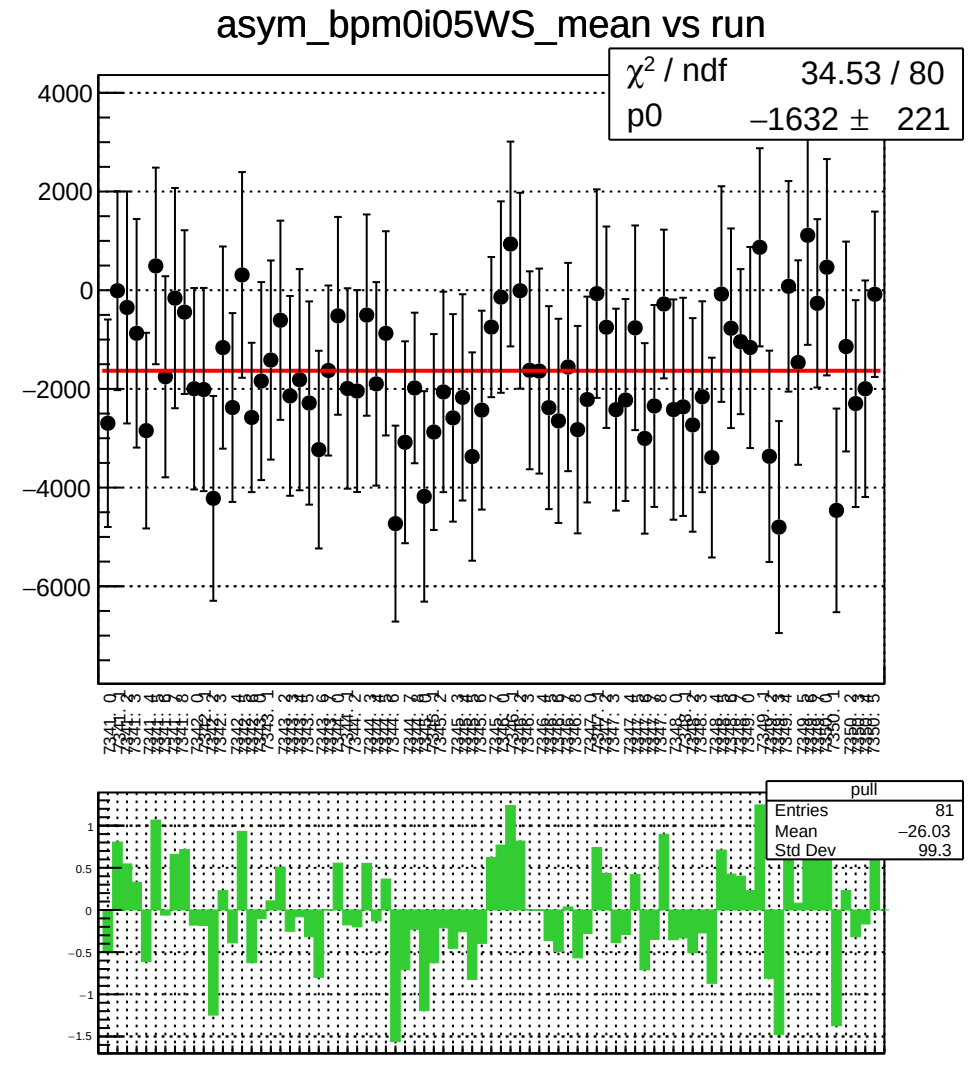

pull1D
Entries 81
Mean −0.002598
Std Dev 0.8892

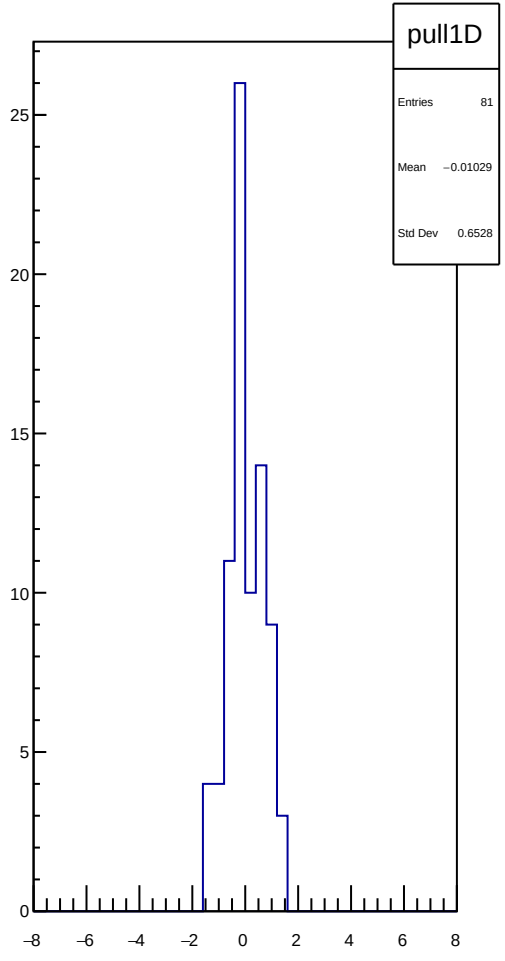

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1842 / 80
p0 249.6 ± 0.1993
280
270
260
250
240
230

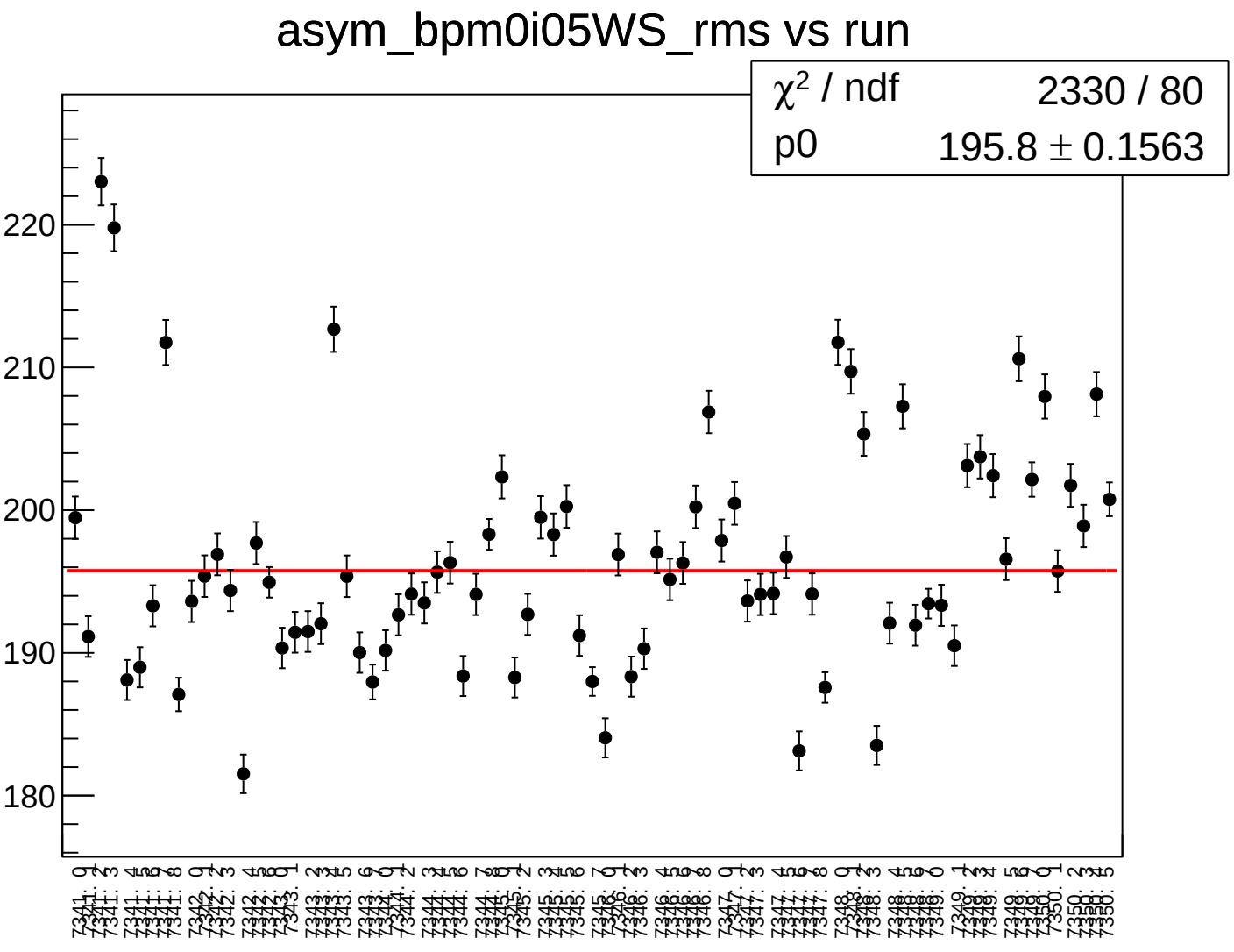

asym_bpm0i02aWS_mean vs run
χ² / ndf 72.68 / 80
p0 −2.231e+04 ± 224.4
pull
Entries 81
Mean 1230
Std Dev 1186

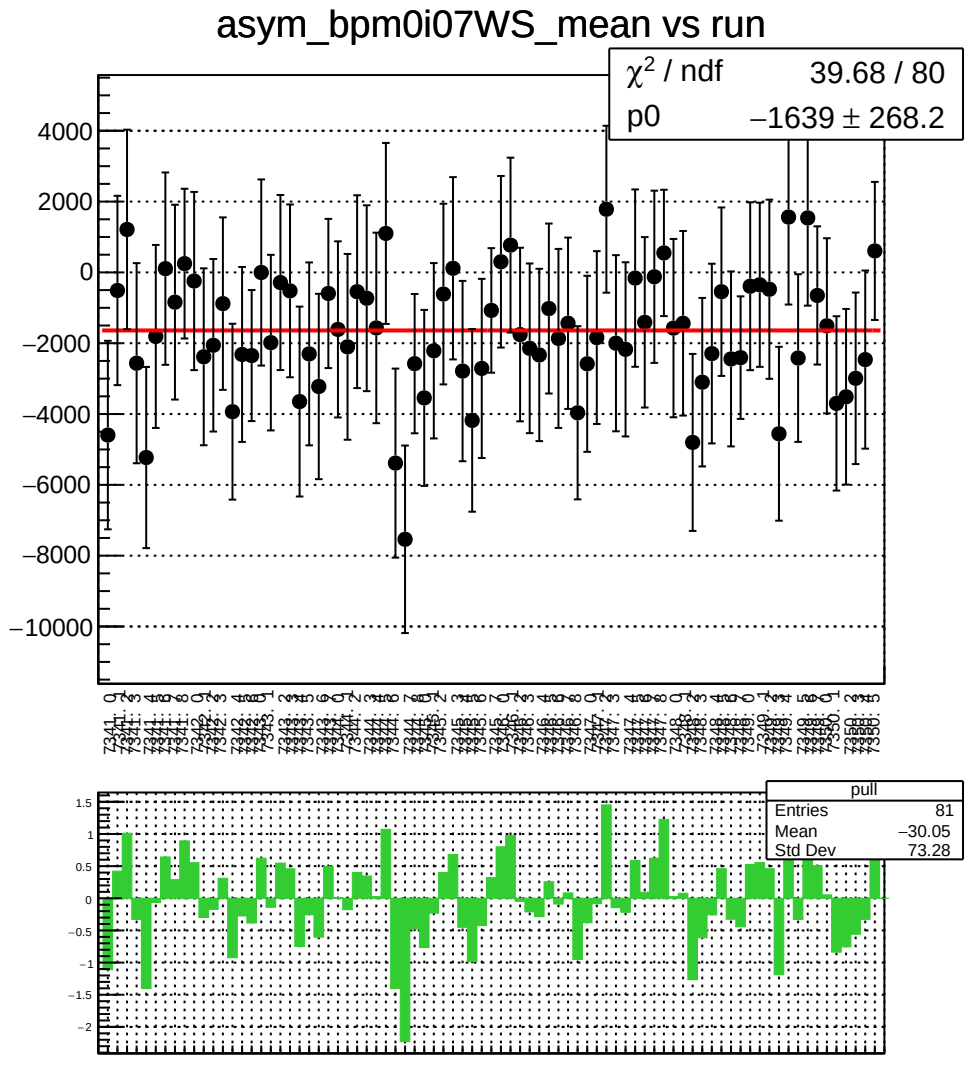

pull1D
Entries 81
Mean 0.006216
Std Dev 0.9473

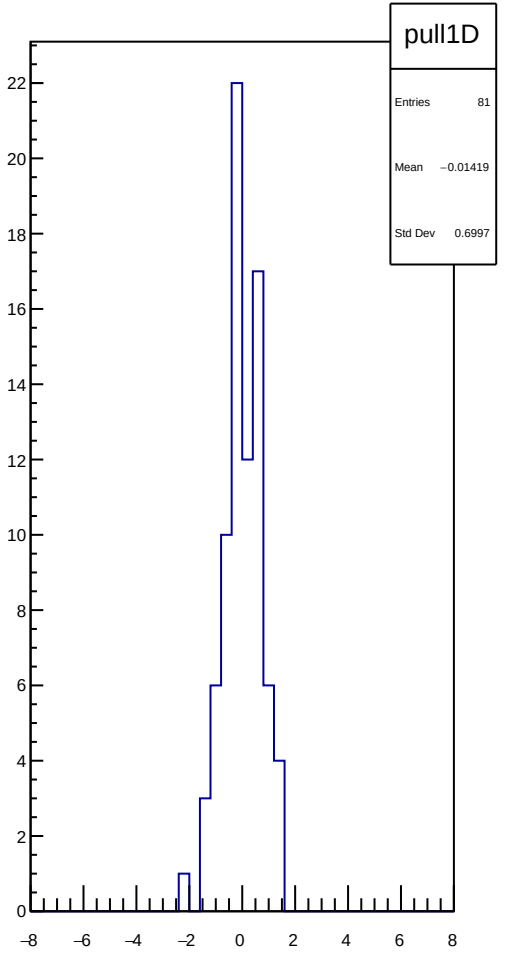

asym_bpm0i02aWS_rms vs run
χ² / ndf 1951 / 80
p0 198.8 ± 0.1587
225
220
215
210
205
200
195
190
185
180

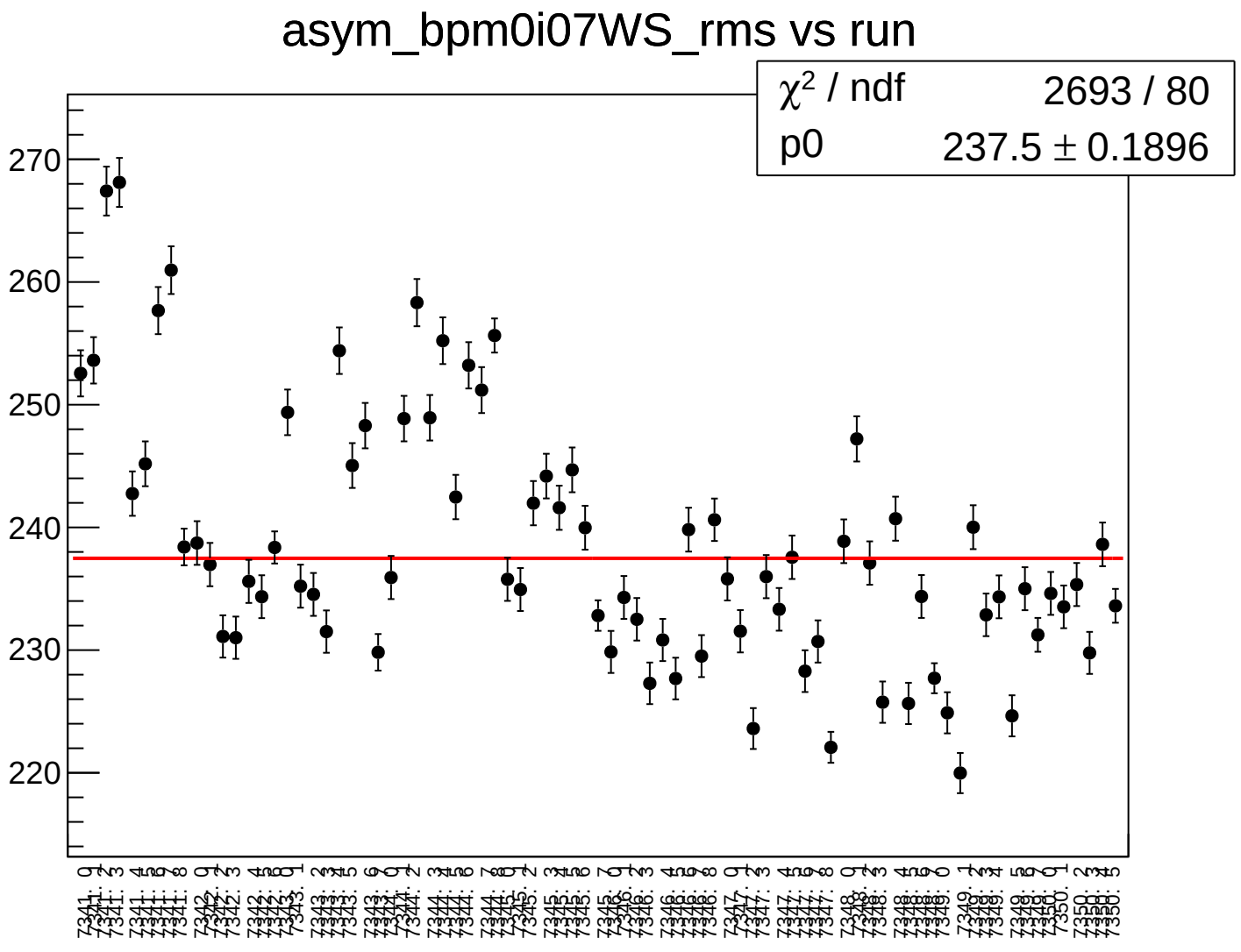

asym_bpm0i05WS_mean vs run
χ² / ndf 34.53 / 80
p0 −1632 ± 221
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −26.03
Std Dev 99.3
1
0.5
0
−0.5
−1
−1.5

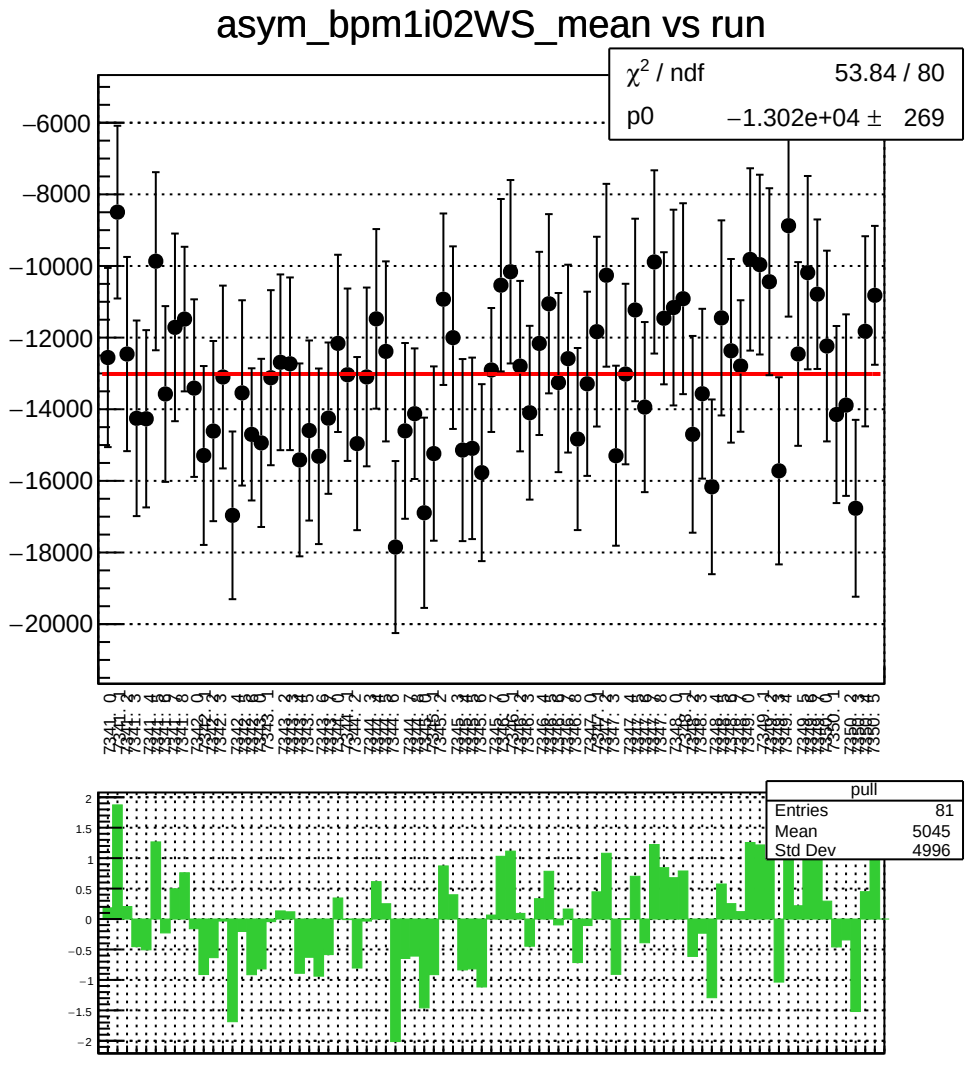

pull1D
Entries 81
Mean −0.01029
Std Dev 0.6528
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

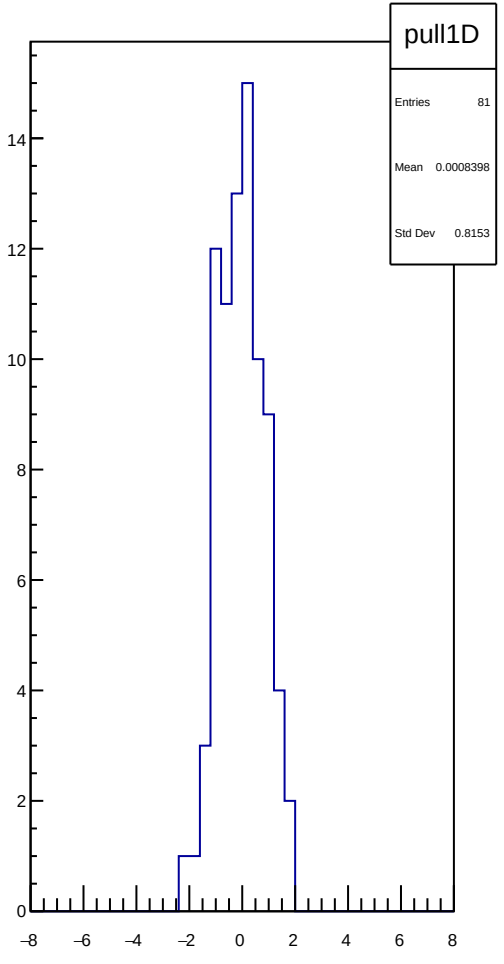

asym_bpm0i05WS_rms vs run
χ² / ndf 2330 / 80
p0 195.8 ± 0.1563
220
210
200
190
180

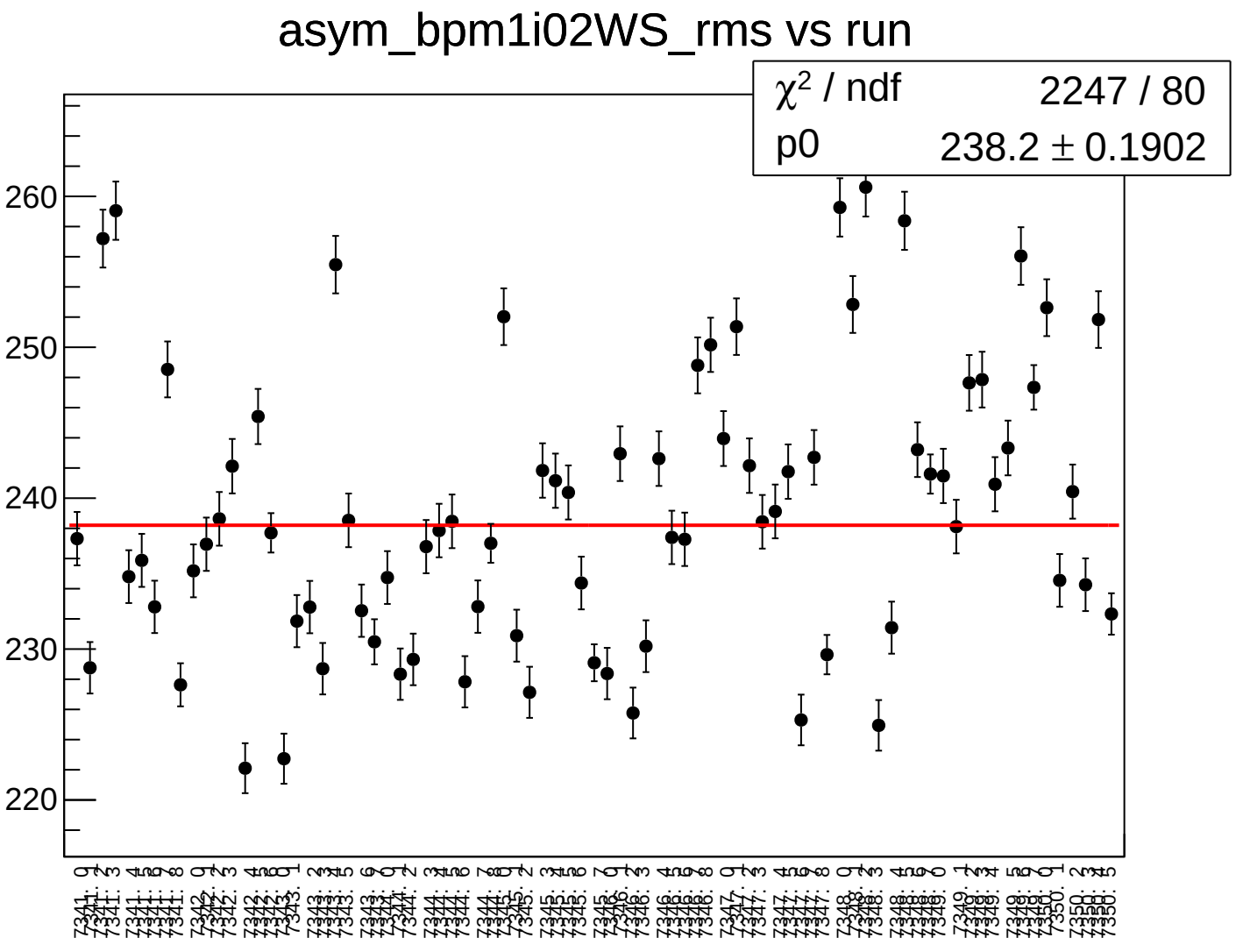

asym_bpm0i07WS_mean vs run
χ² / ndf 39.68 / 80
p0 −1639 ± 268.2
pull
Entries 81
Mean −30.05
Std Dev 73.28

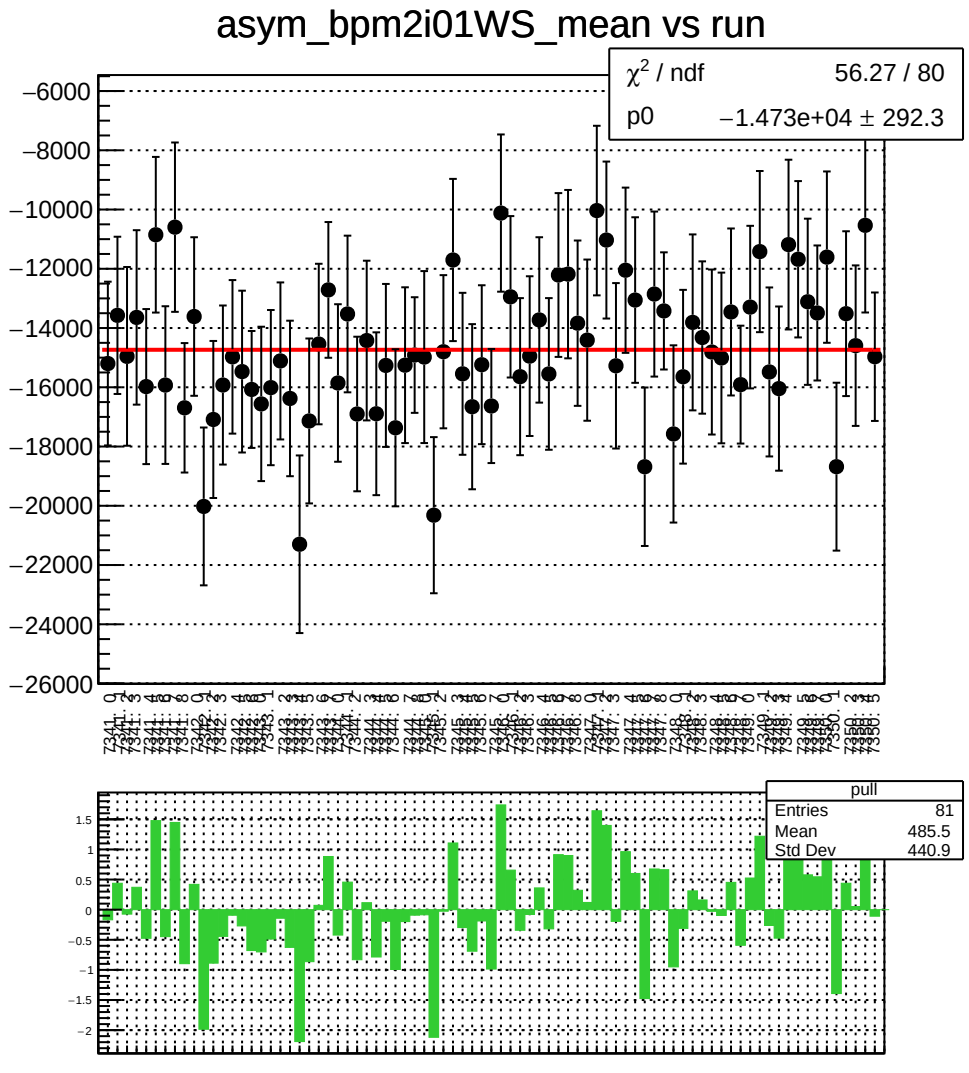

pull1D
Entries 81
Mean −0.01419
Std Dev 0.6997

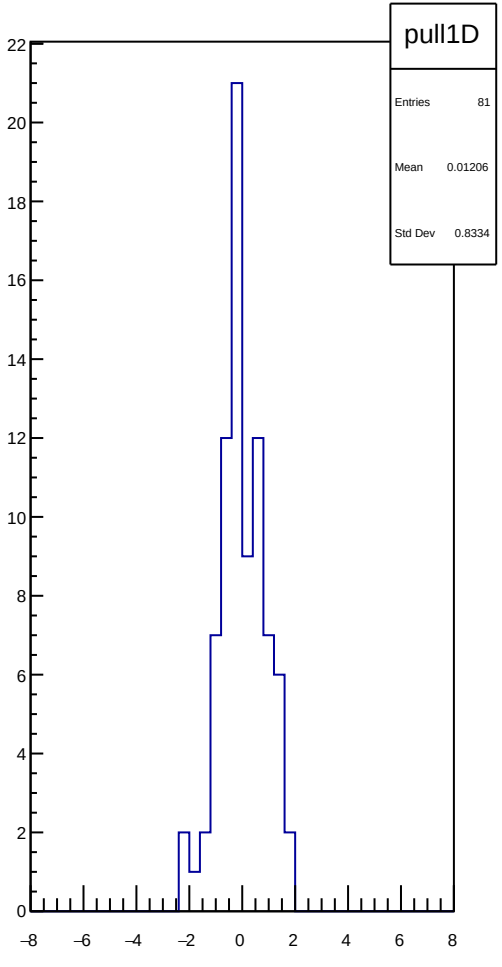

asym_bpm0i07WS_rms vs run
χ² / ndf 2693 / 80
p0 237.5 ± 0.1896
270
260
250
240
230
220

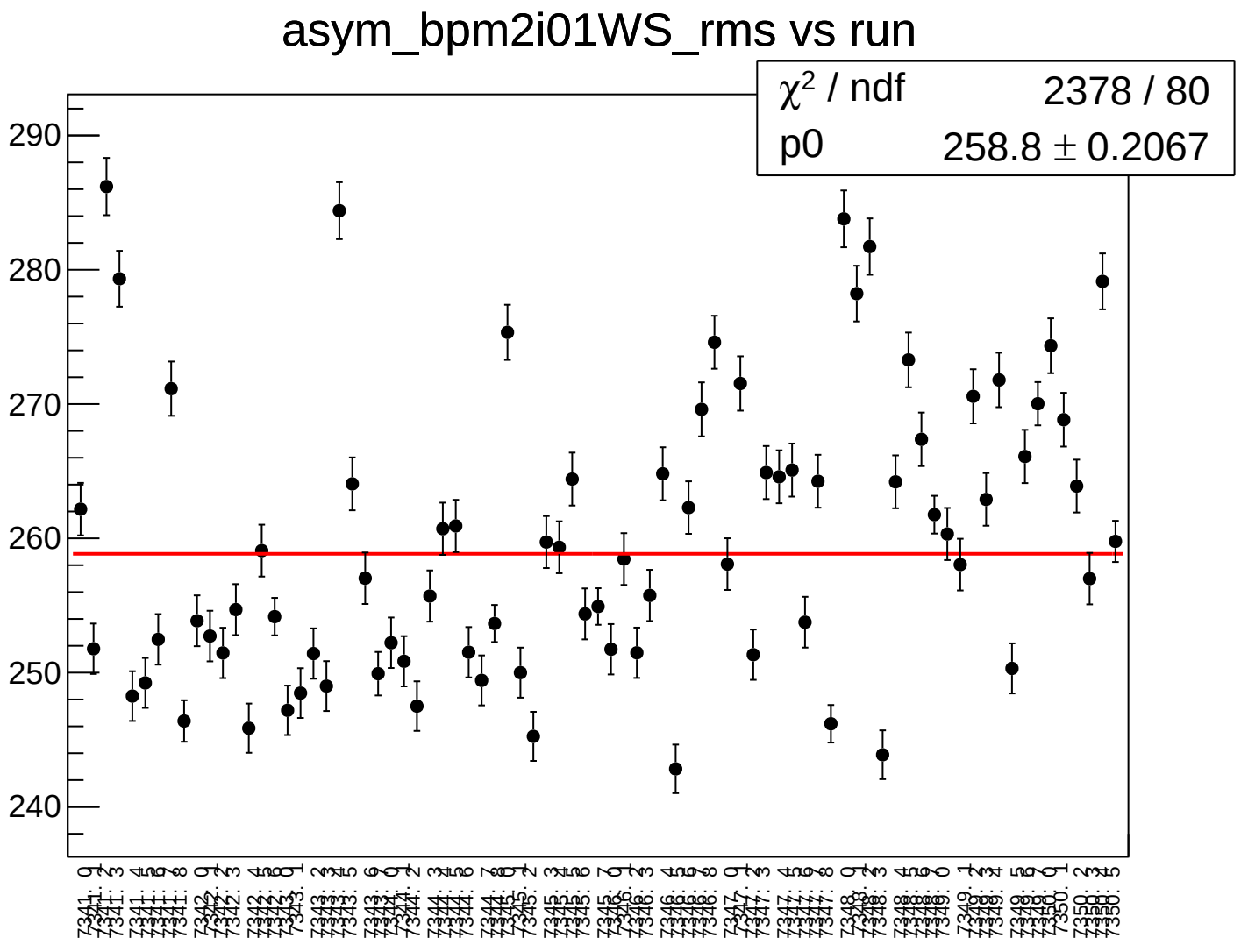

asym_bpm1i02WS_mean vs run
χ² / ndf 53.84 / 80
p0 −1.302e+04 ± 269
pull
Entries 81
Mean 5045
Std Dev 4996

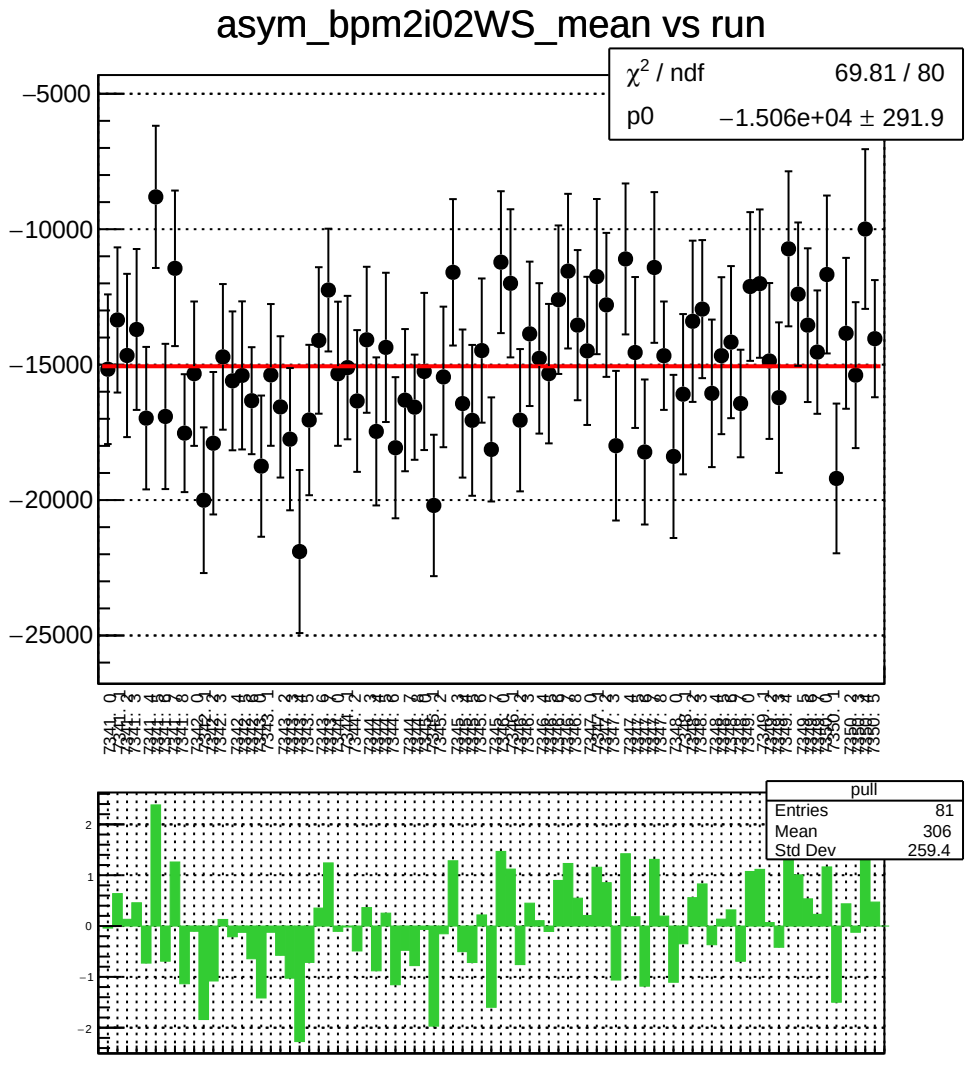

pull1D
Entries 81
Mean 0.0008398
Std Dev 0.8153

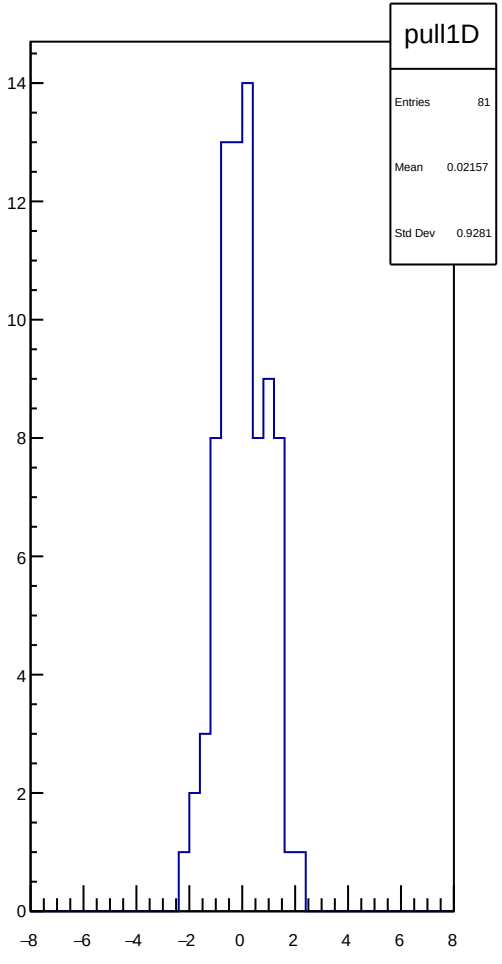

asym_bpm1i02WS_rms vs run
χ² / ndf 2247 / 80
p0 238.2 ± 0.1902
260
250
240
230
220

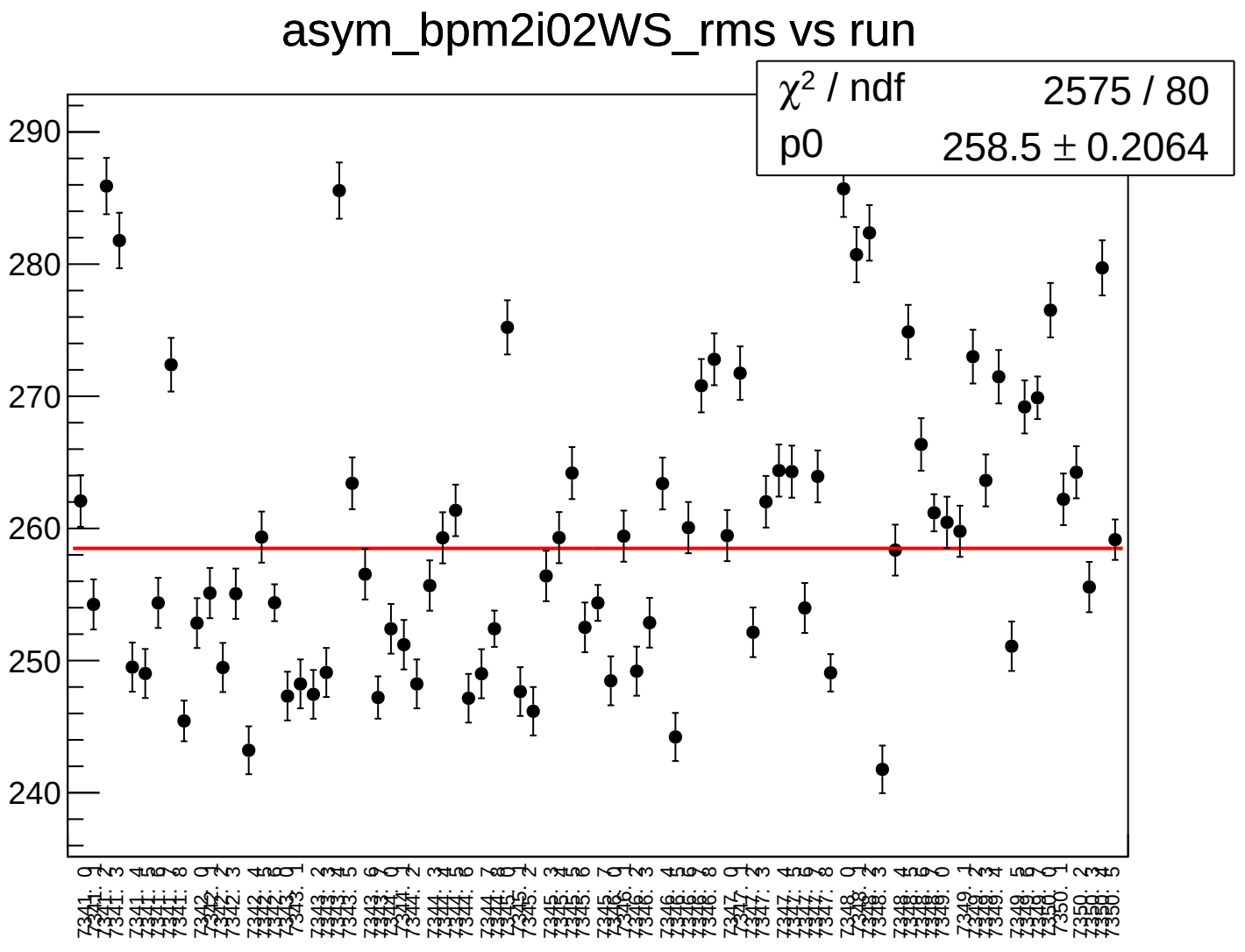

asym_bpm2i01WS_mean vs run
χ² / ndf 56.27 / 80
p0 −1.473e+04 ± 292.3
pull
Entries 81
Mean 485.5
Std Dev 440.9

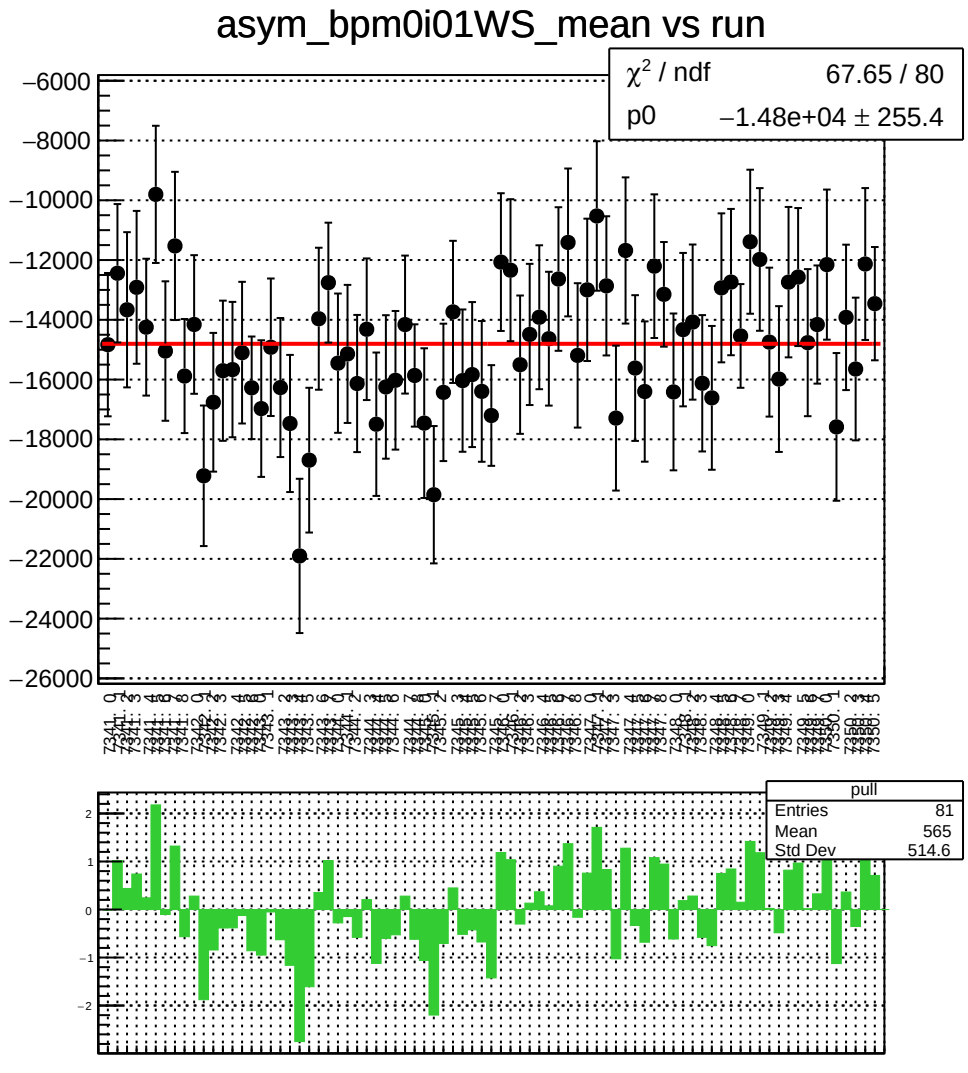

pull1D
Entries 81
Mean 0.01206
Std Dev 0.8334

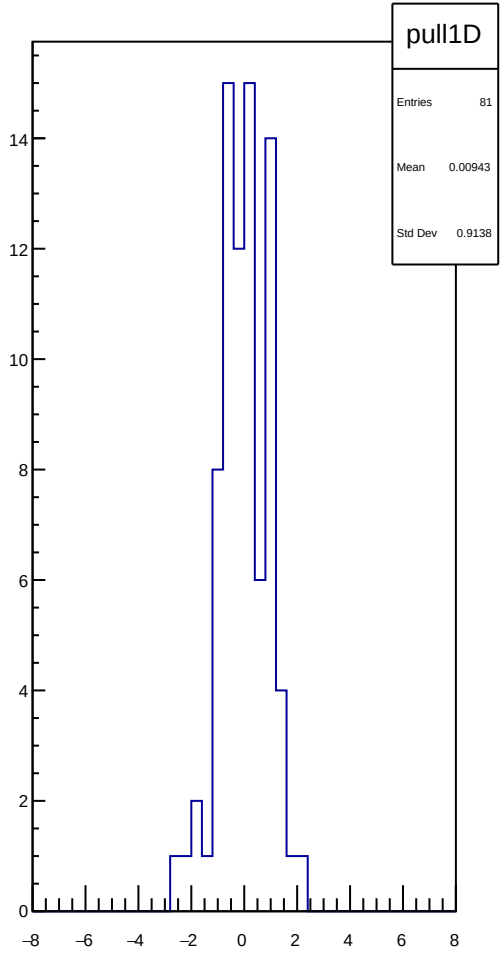

asym_bpm2i01WS_rms vs run
χ² / ndf 2378 / 80
p0 258.8 ± 0.2067
290
280
270
260
250
240

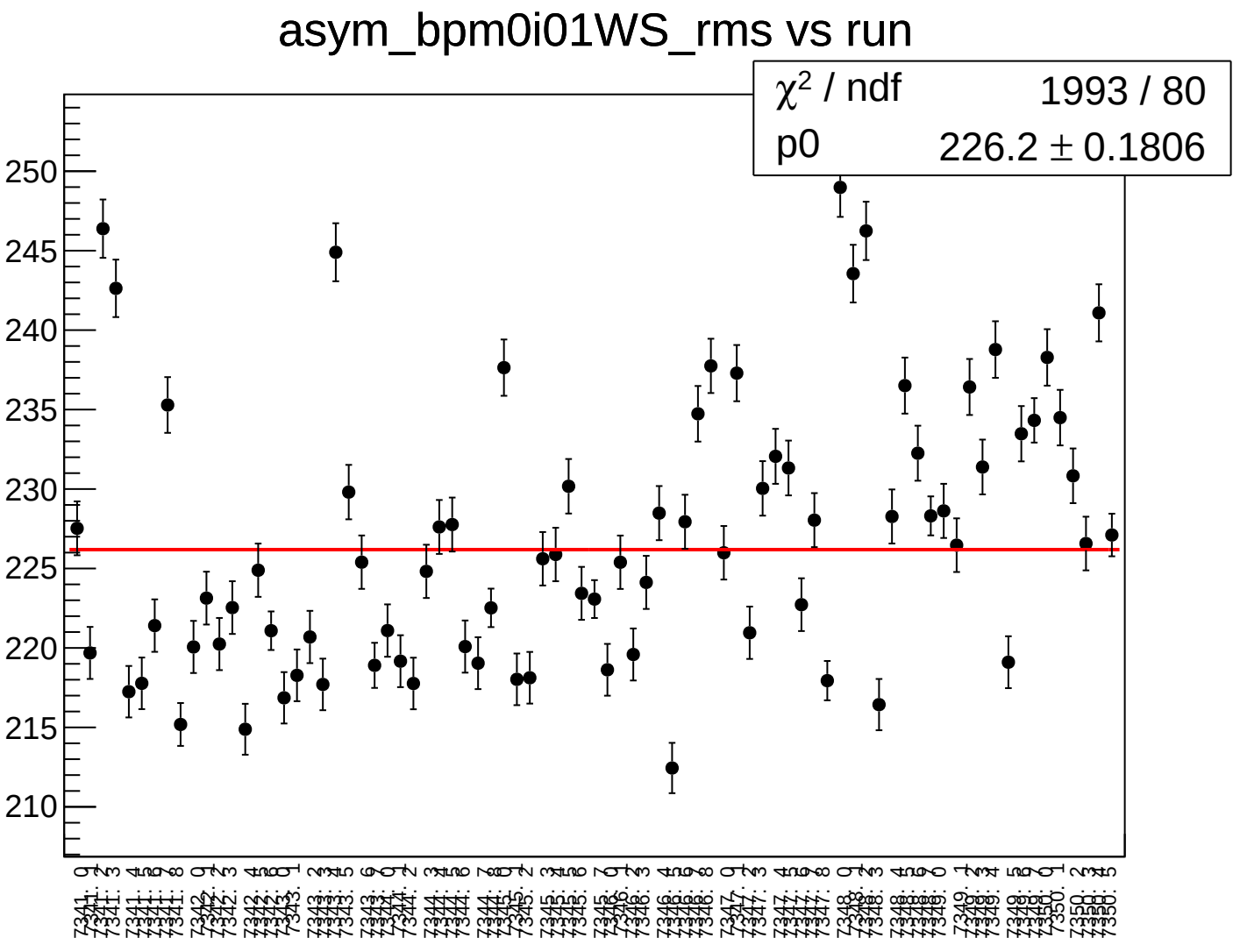

asym_bpm2i02WS_mean vs run
χ² / ndf 69.81 / 80
p0 −1.506e+04 ± 291.9
pull
Entries 81
Mean 306
Std Dev 259.4

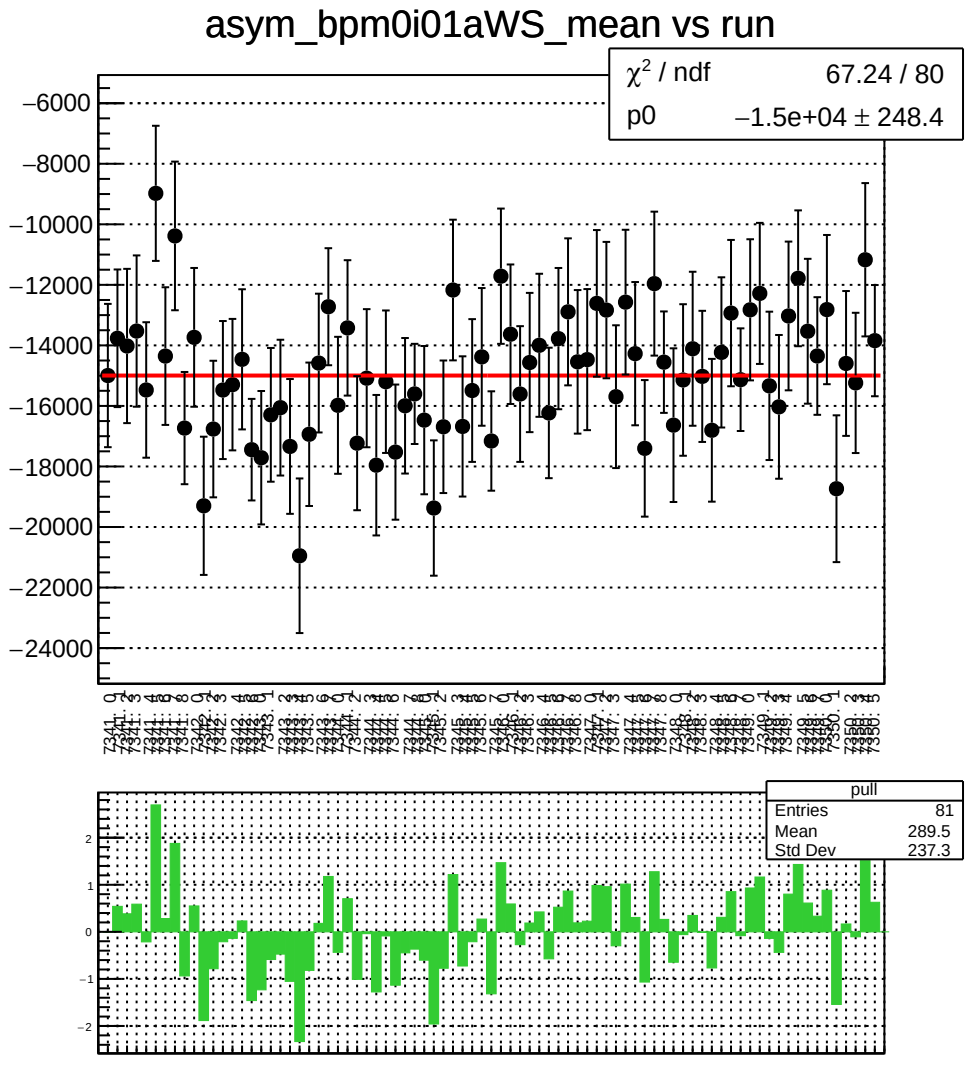

pull1D
Entries 81
Mean 0.02157
Std Dev 0.9281

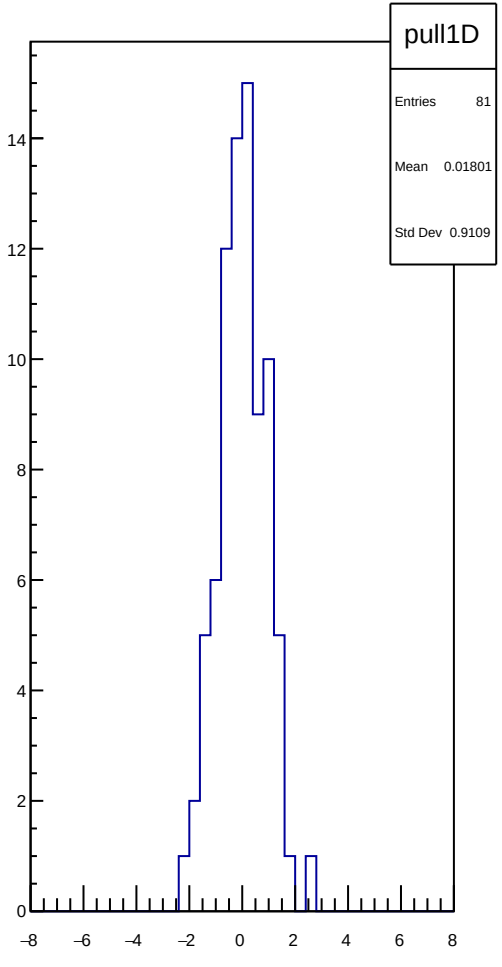

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2575 / 80
p0 258.5 ± 0.2064
290
280
270
260
250
240

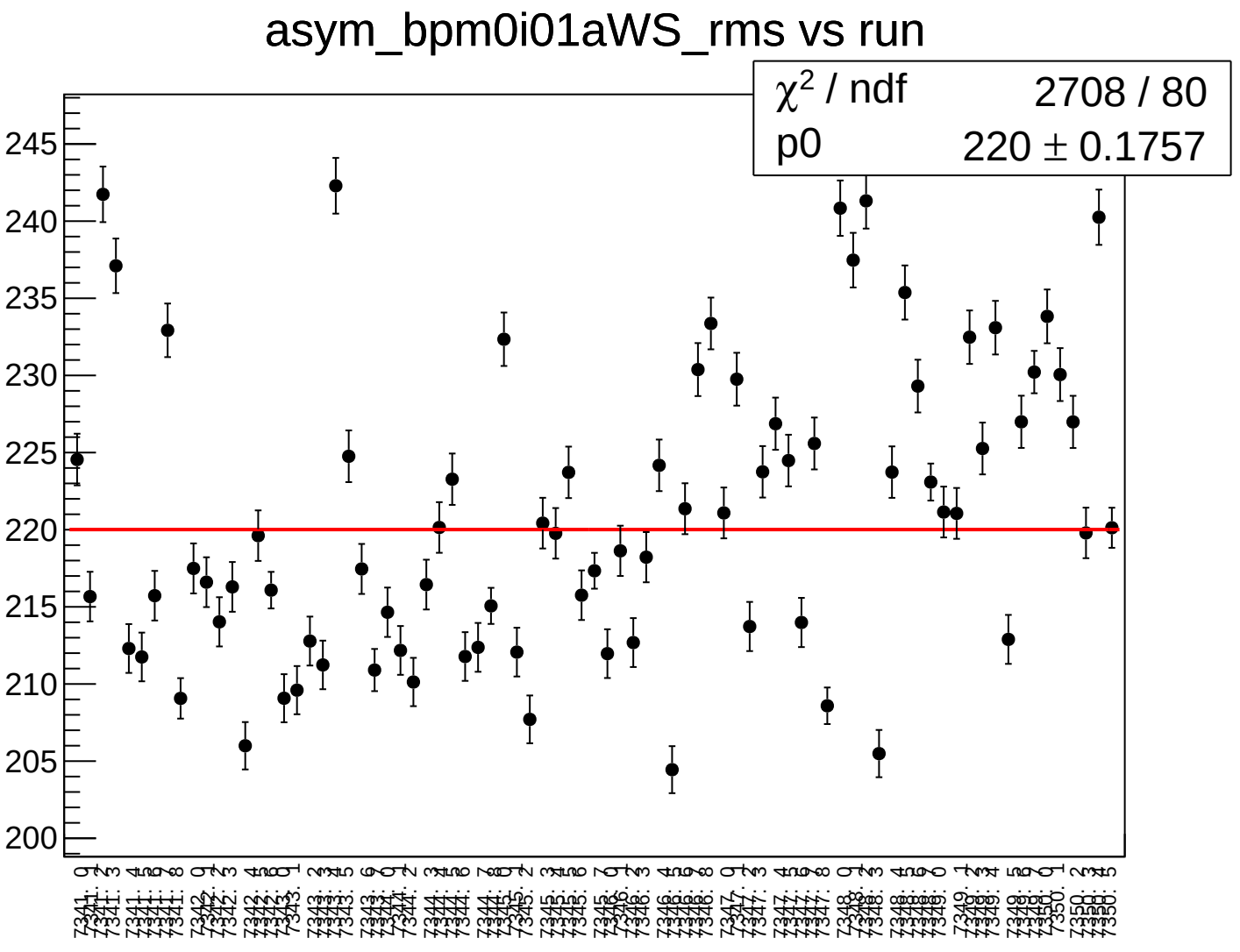

asym_bpm0i01WS_mean vs run
χ² / ndf 67.65 / 80
p0 −1.48e+04 ± 255.4
pull
Entries 81
Mean 565
Std Dev 514.6

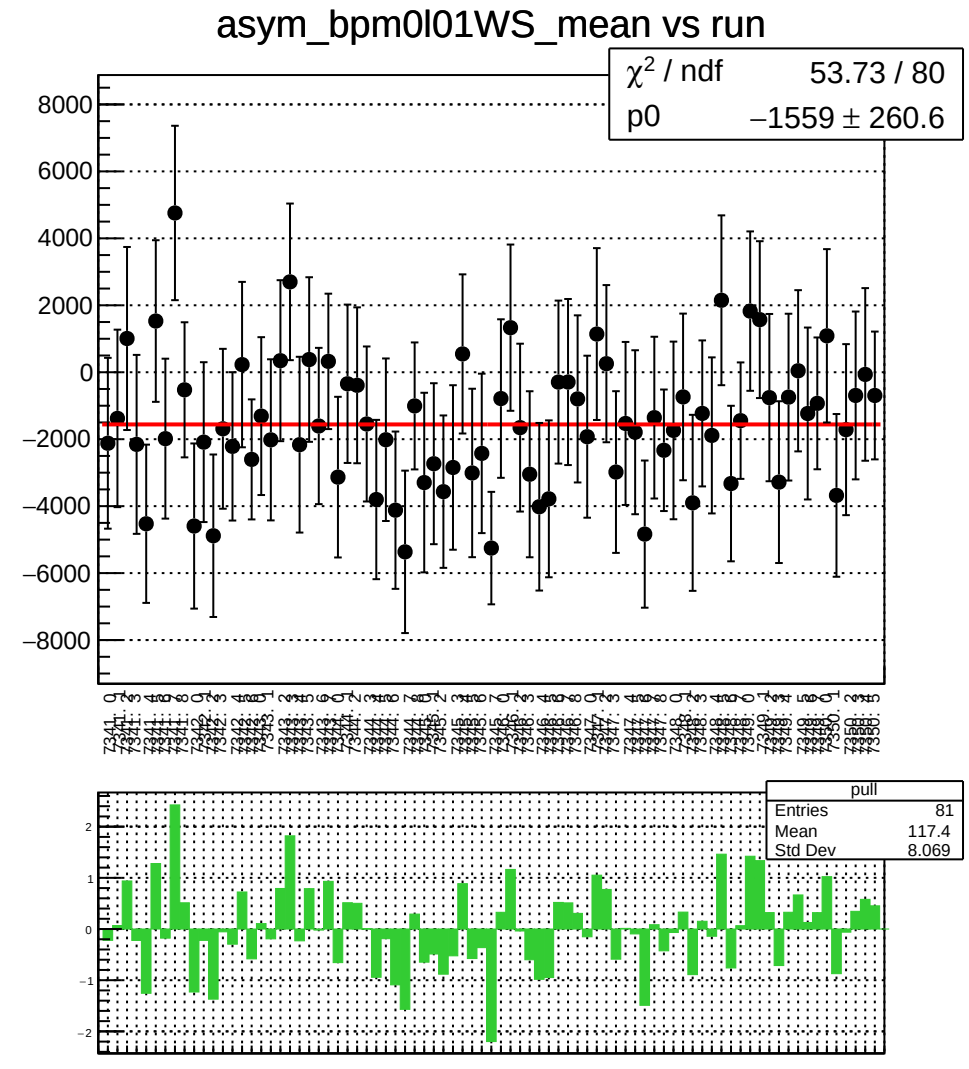

pull1D
Entries 81
Mean 0.00943
Std Dev 0.9138

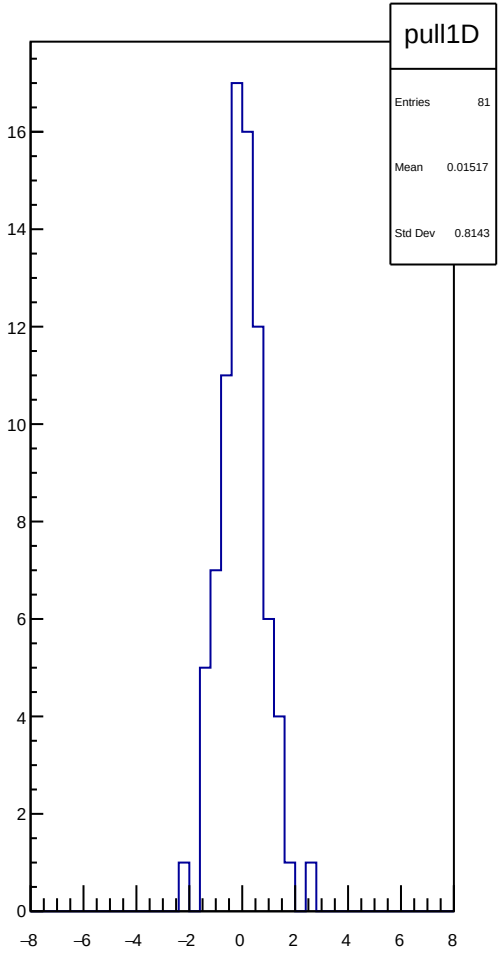

asym_bpm0i01WS_rms vs run
χ² / ndf 1993 / 80
p0 226.2 ± 0.1806
250
245
240
235
230
225
220
215
210

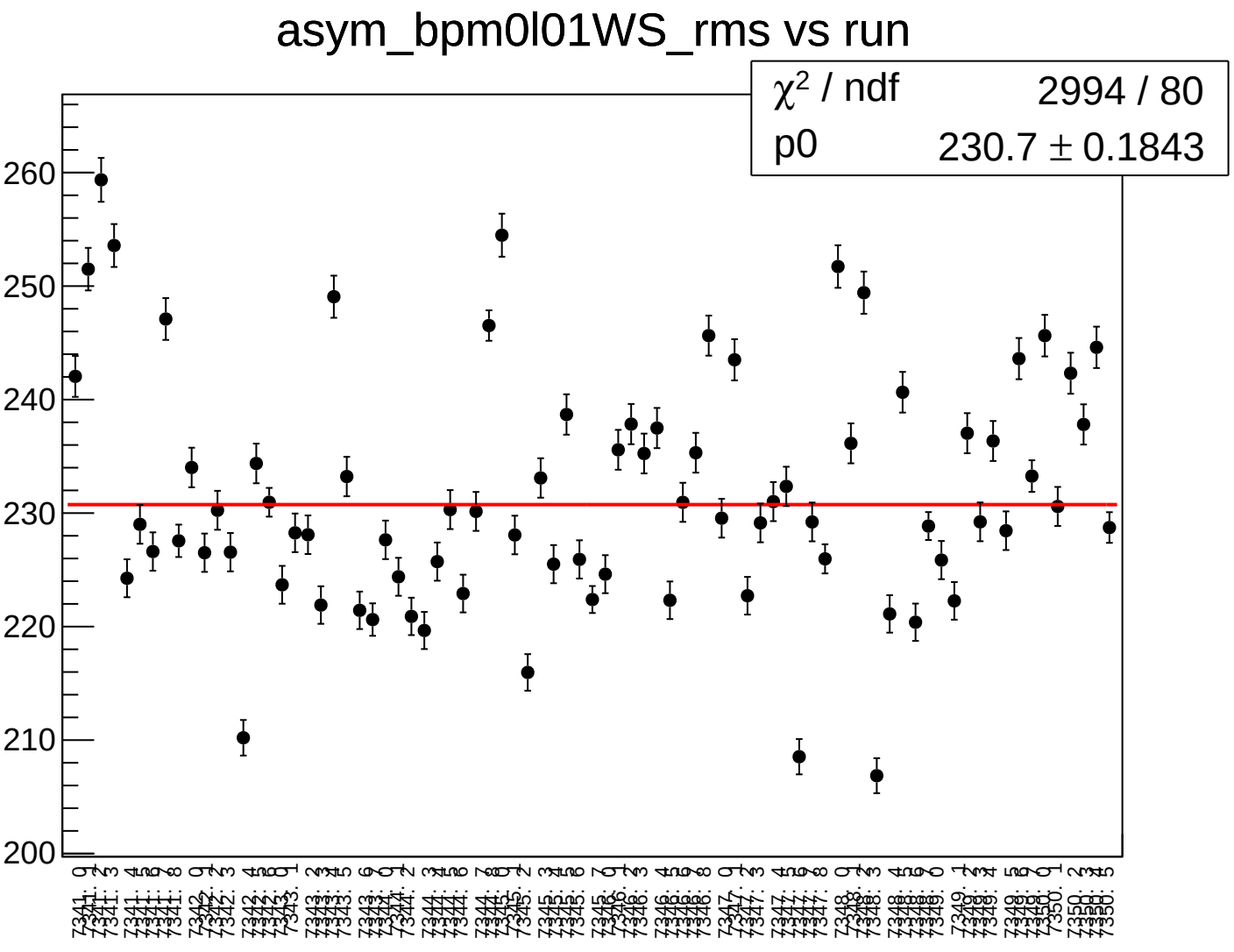

asym_bpm0i01aWS_mean vs run
χ² / ndf 67.24 / 80
p0 −1.5e+04 ± 248.4
pull
Entries 81
Mean 289.5
Std Dev 237.3

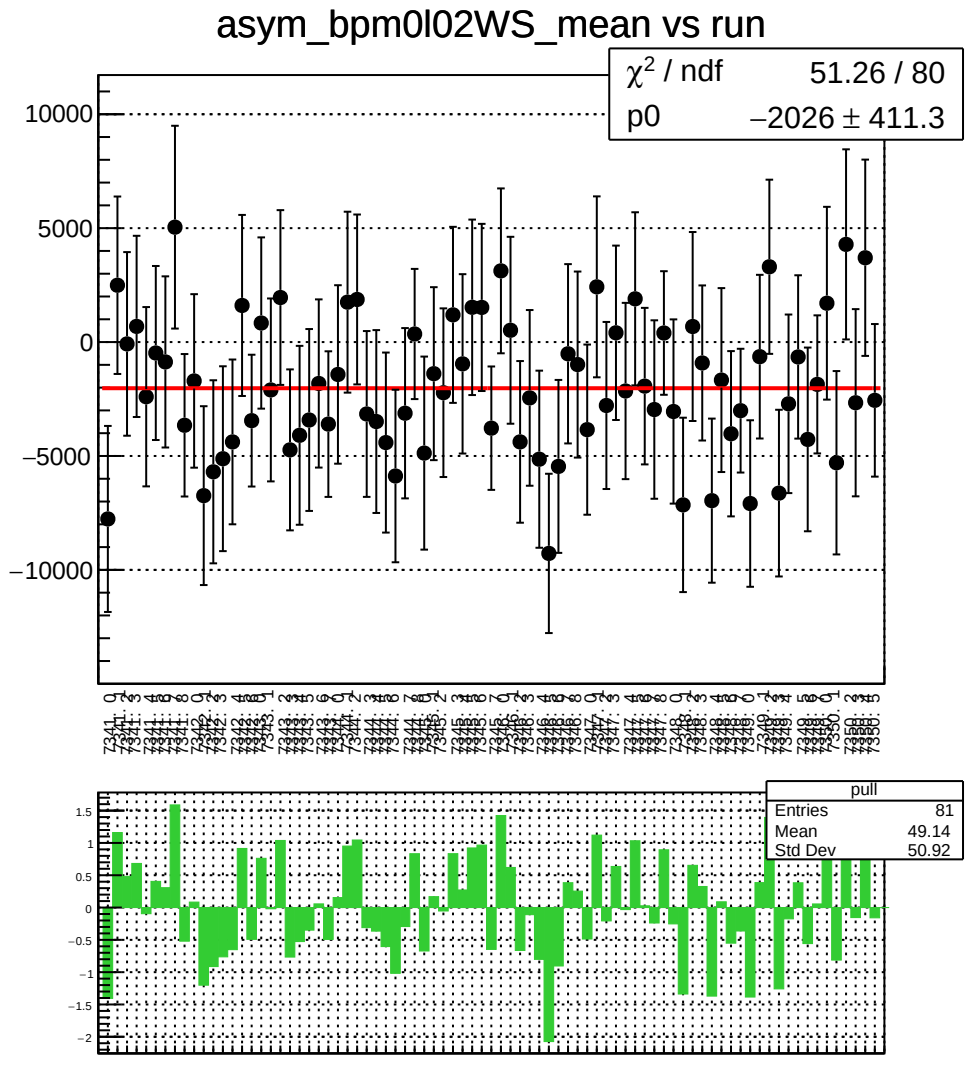

pull1D
Entries 81
Mean 0.01801
Std Dev 0.9109

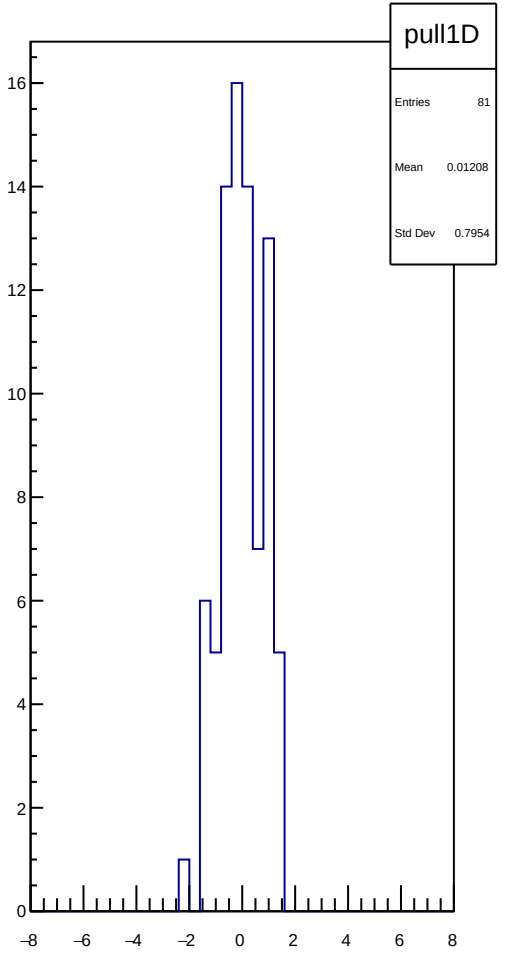

asym_bpm0i01aWS_rms vs run
χ² / ndf 2708 / 80
p0 220 ± 0.1757
245
240
235
230
225
220
215
210
205
200

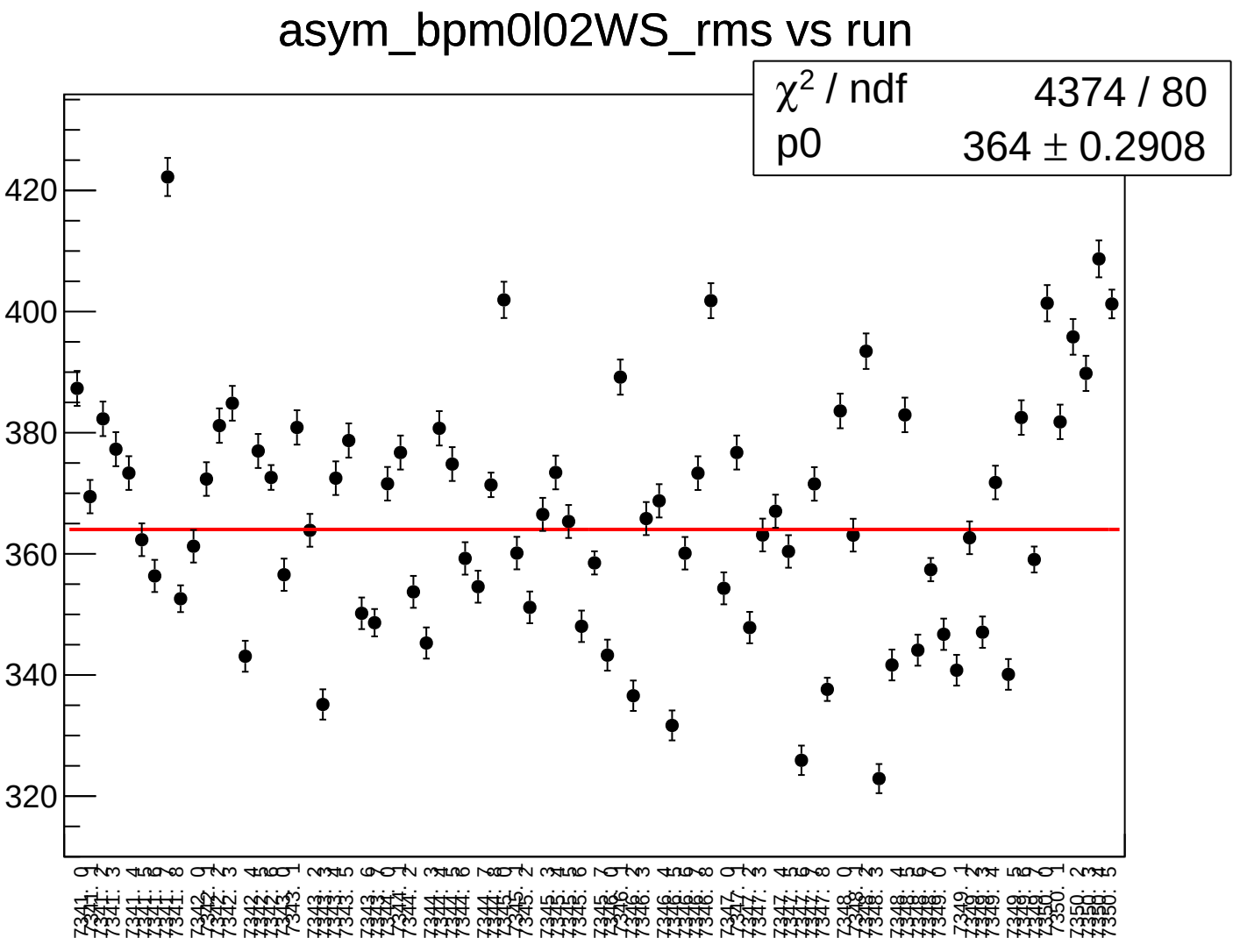

asym_bpm0l01WS_mean vs run
χ² / ndf 53.73 / 80
p0 −1559 ± 260.6
pull
Entries 81
Mean 117.4
Std Dev 8.069

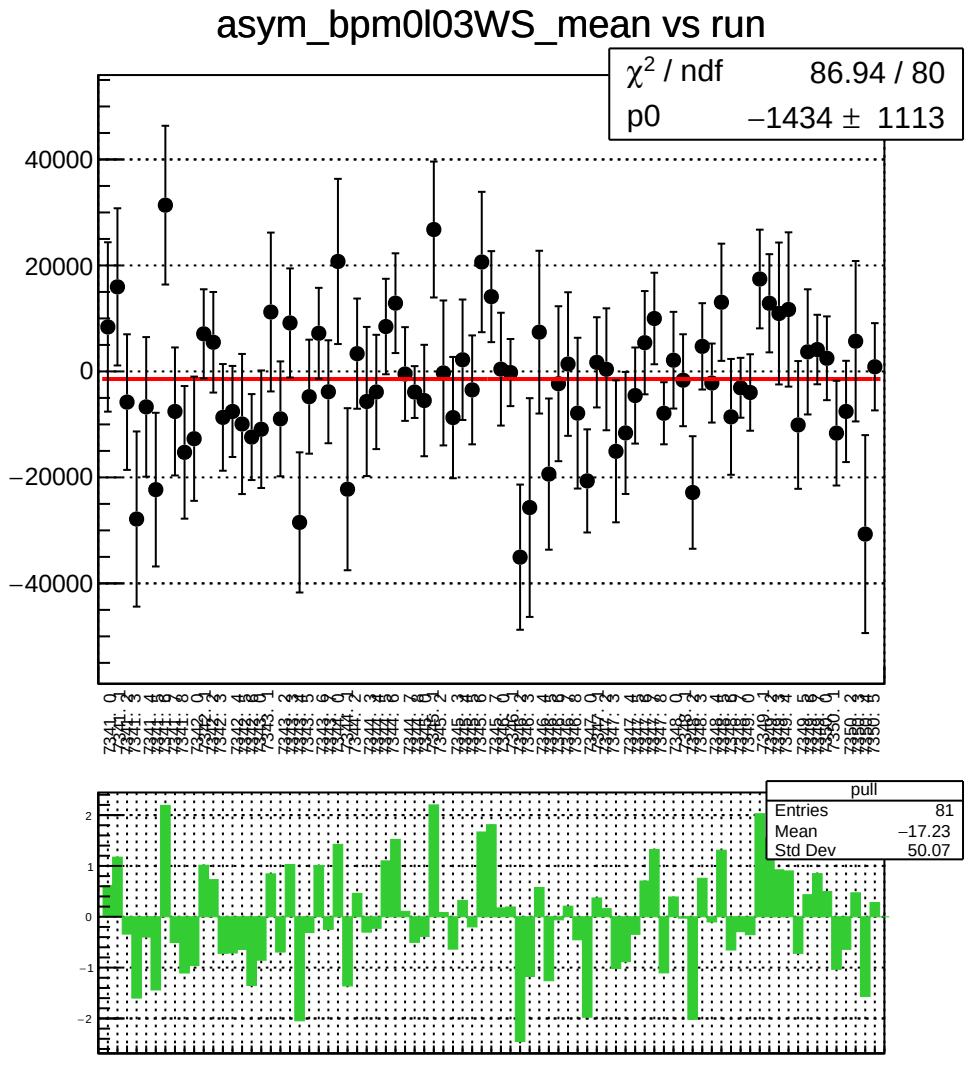

pull1D
Entries 81
Mean 0.01517
Std Dev 0.8143

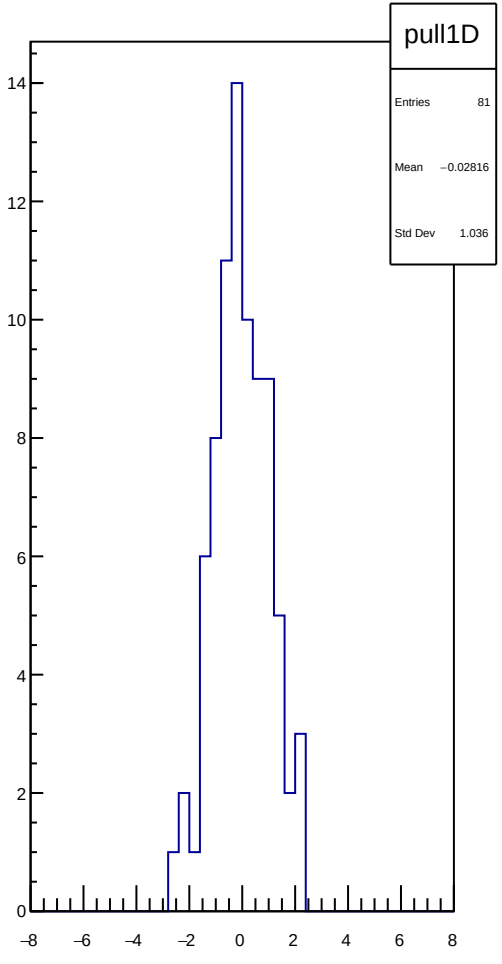

asym_bpm0l01WS_rms vs run
χ² / ndf 2994 / 80
p0 230.7 ± 0.1843
260
250
240
230
220
210
200

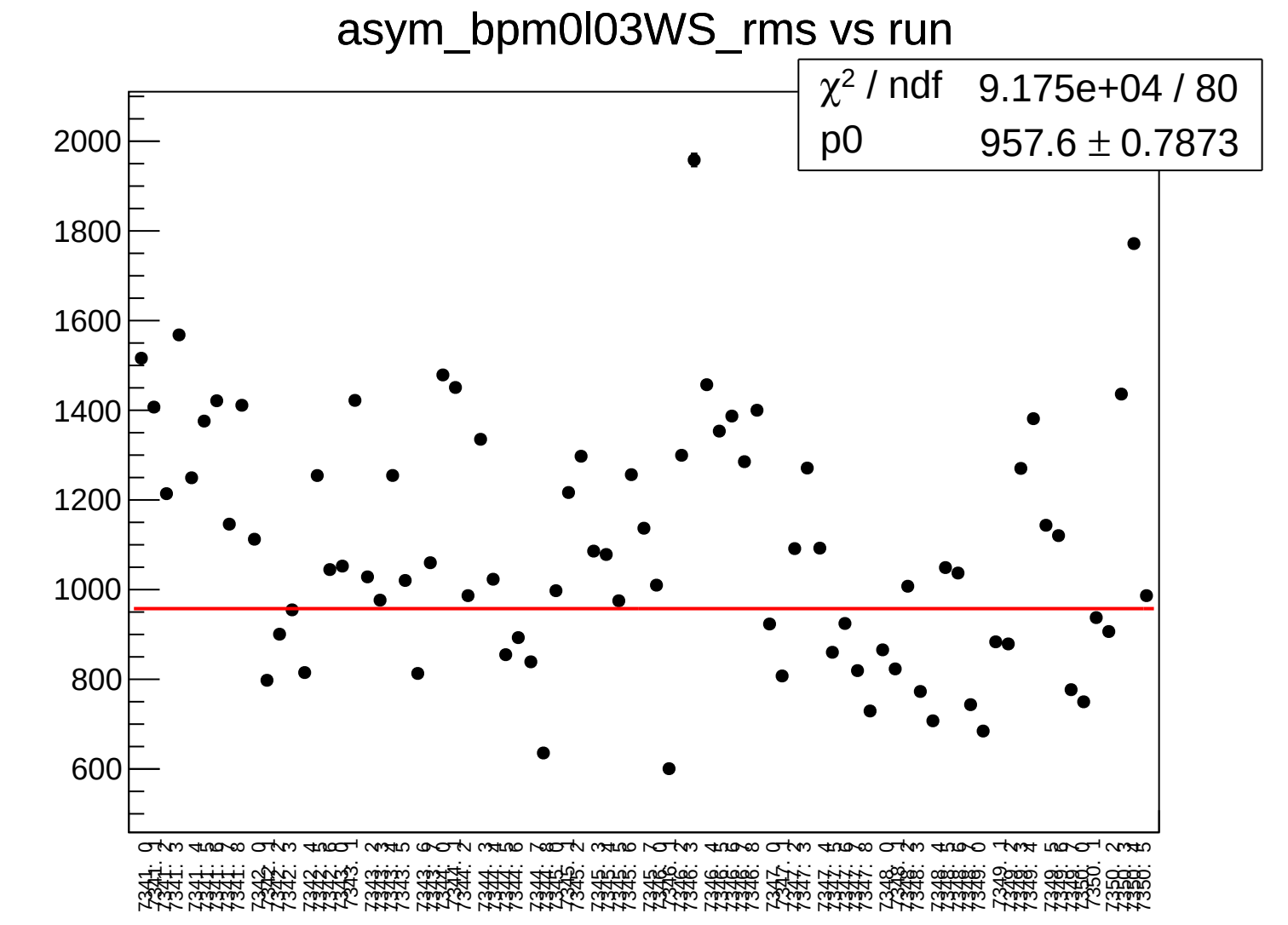

asym_bpm0l02WS_mean vs run
χ^2 / ndf 51.26 / 80
p0 −2026 ± 411.3
10000
5000
0
−5000
−10000
pull
Entries 81
Mean 49.14
Std Dev 50.92
1.5
1
0.5
0
−0.5
−1
−1.5
−2

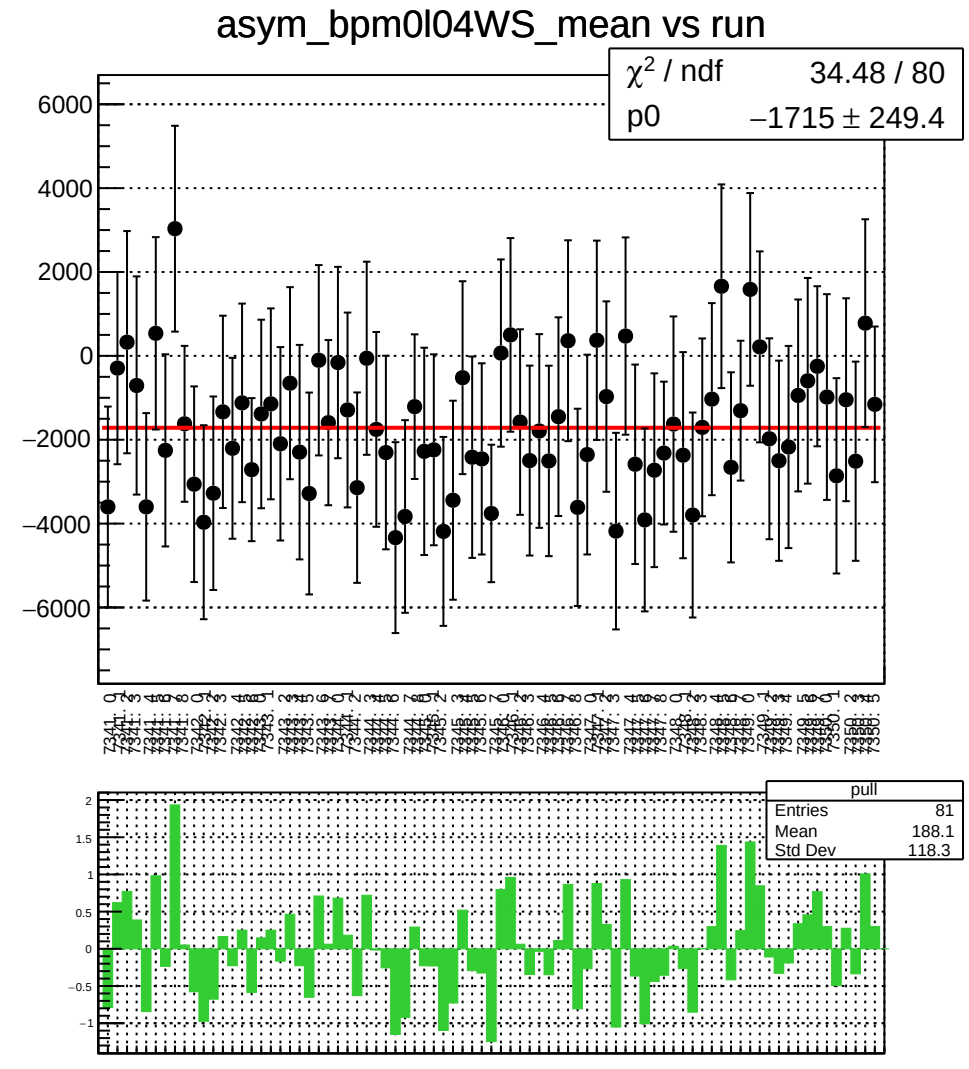

pull1D
Entries 81
Mean 0.01208
Std Dev 0.7954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

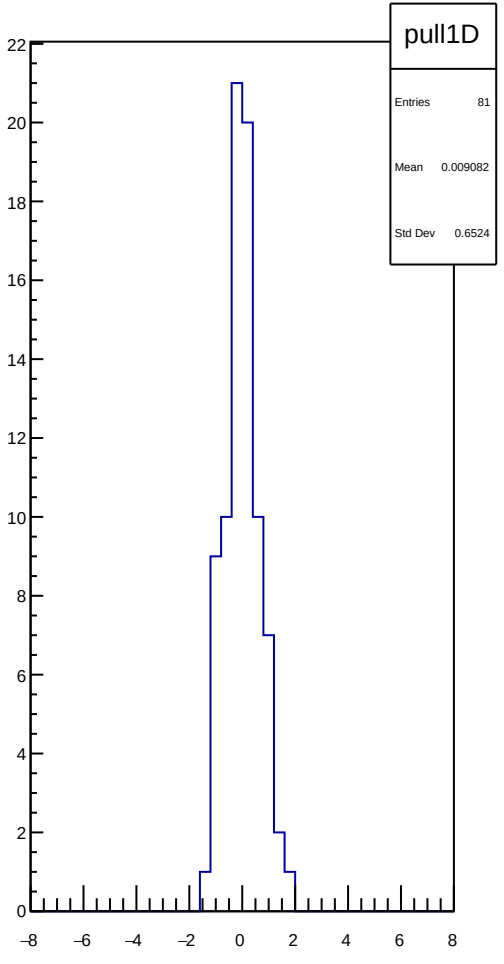

asym_bpm0l02WS_rms vs run
χ² / ndf 4374 / 80
p0 364 ± 0.2908
420
400
380
360
340
320

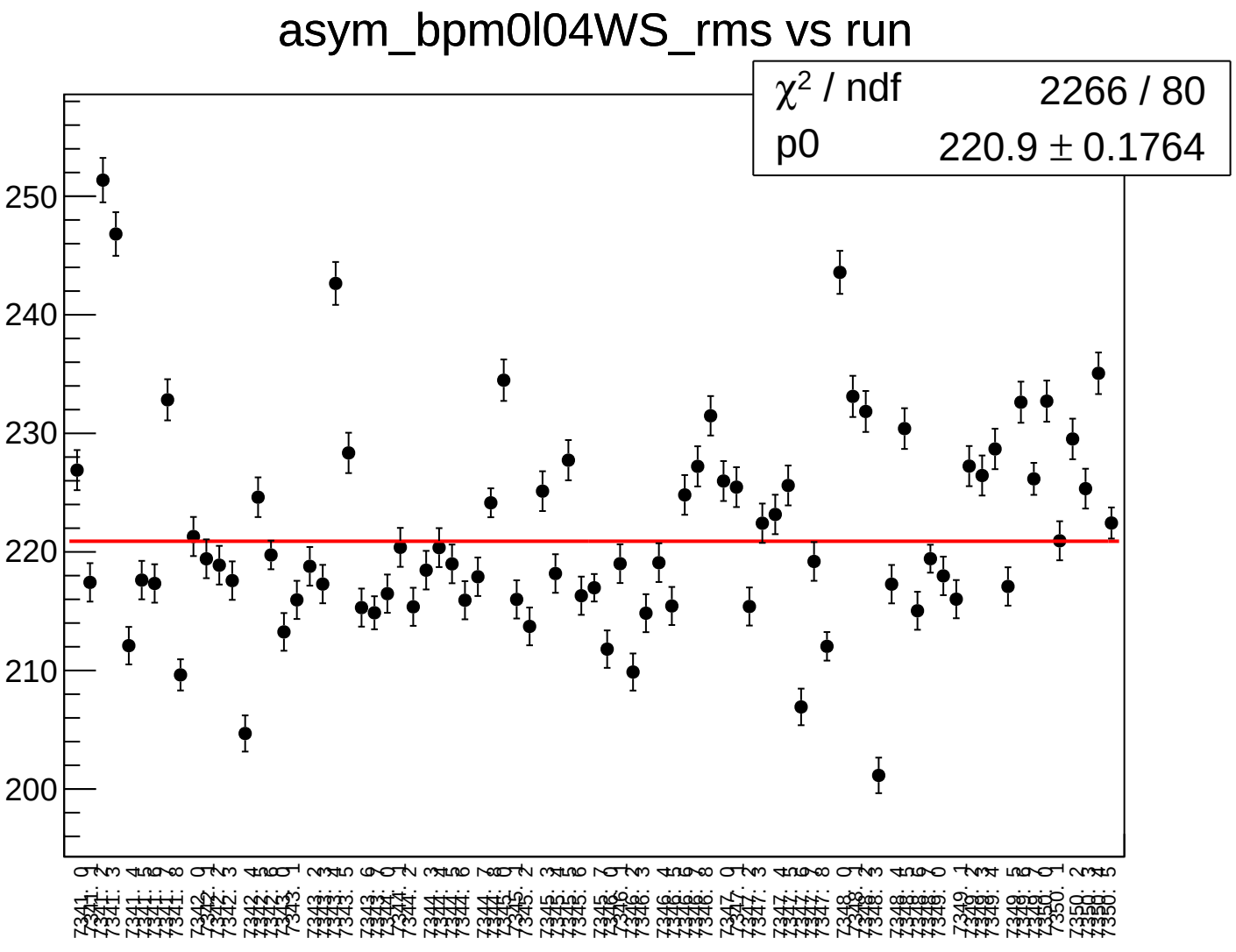

asym_bpm0l03WS_mean vs run
χ² / ndf 86.94 / 80
p0 −1434 ± 1113
40000
20000
0
−20000
−40000
pull
Entries 81
Mean −17.23
Std Dev 50.07
2
1
0
−1
−2

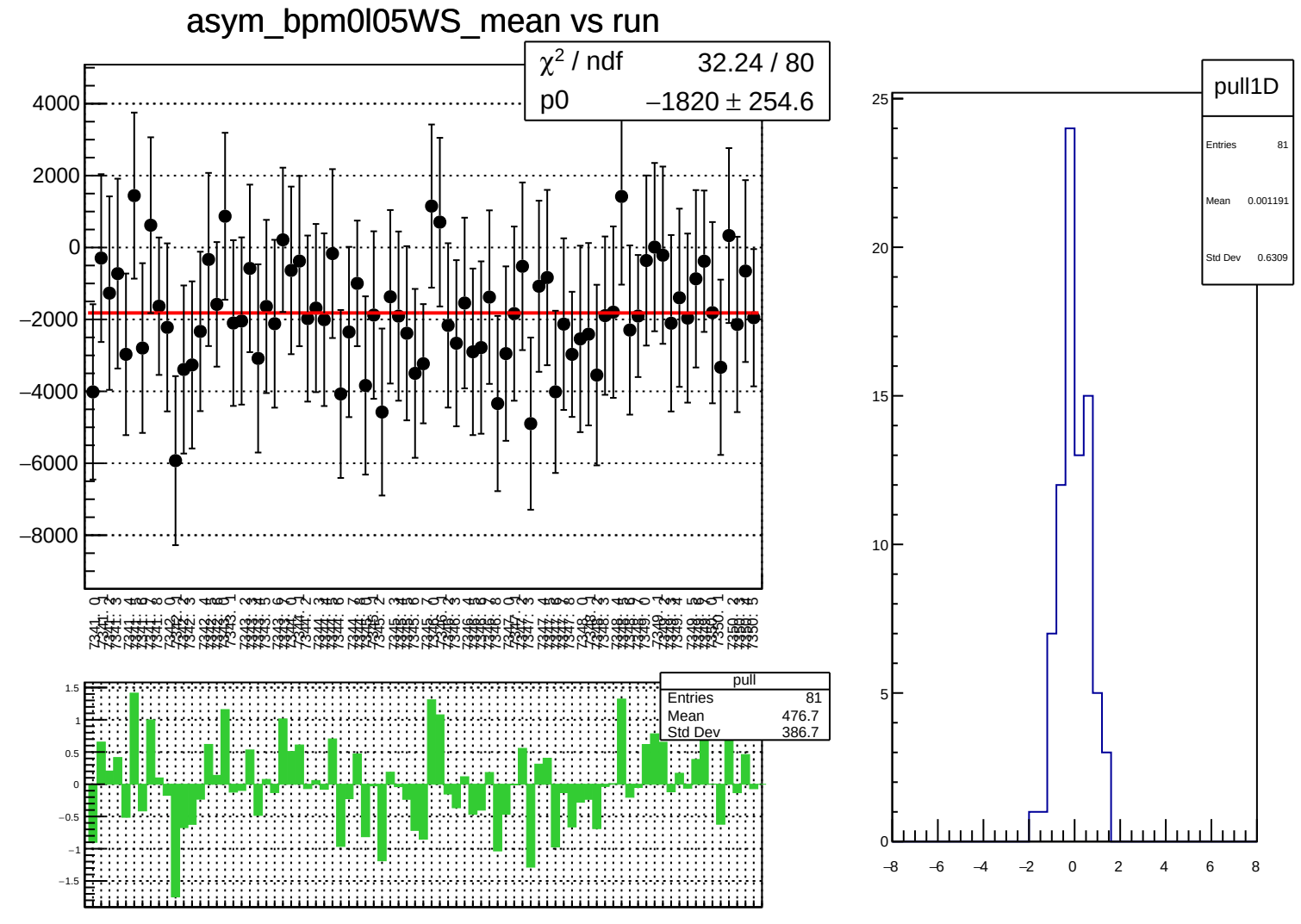

pull1D
Entries 81
Mean −0.02816
Std Dev 1.036
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

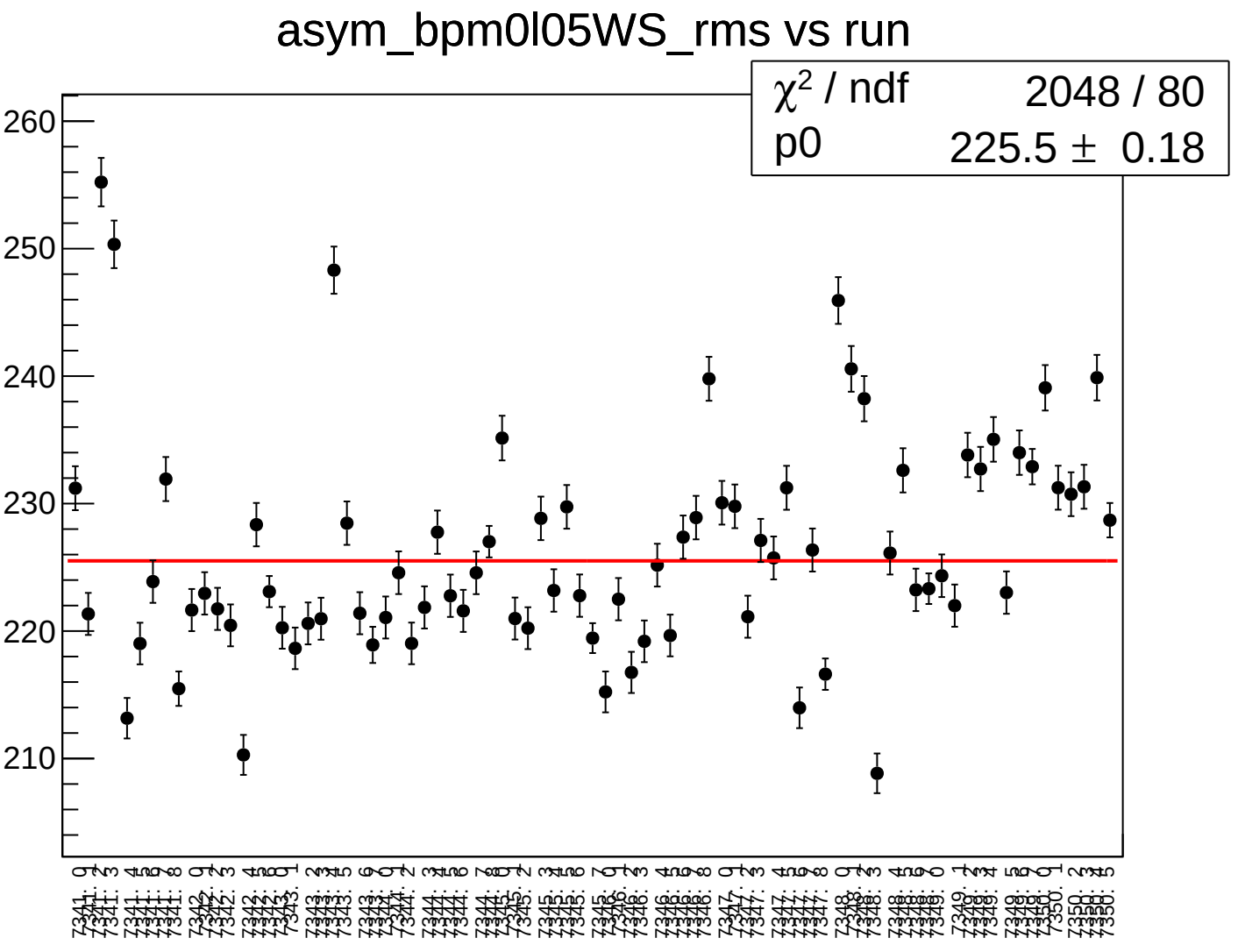

asym_bpm0l03WS_rms vs run
χ^2 / ndf 9.175e+04 / 80
p0 957.6 ± 0.7873
2000
1800
1600
1400
1200
1000
800
600

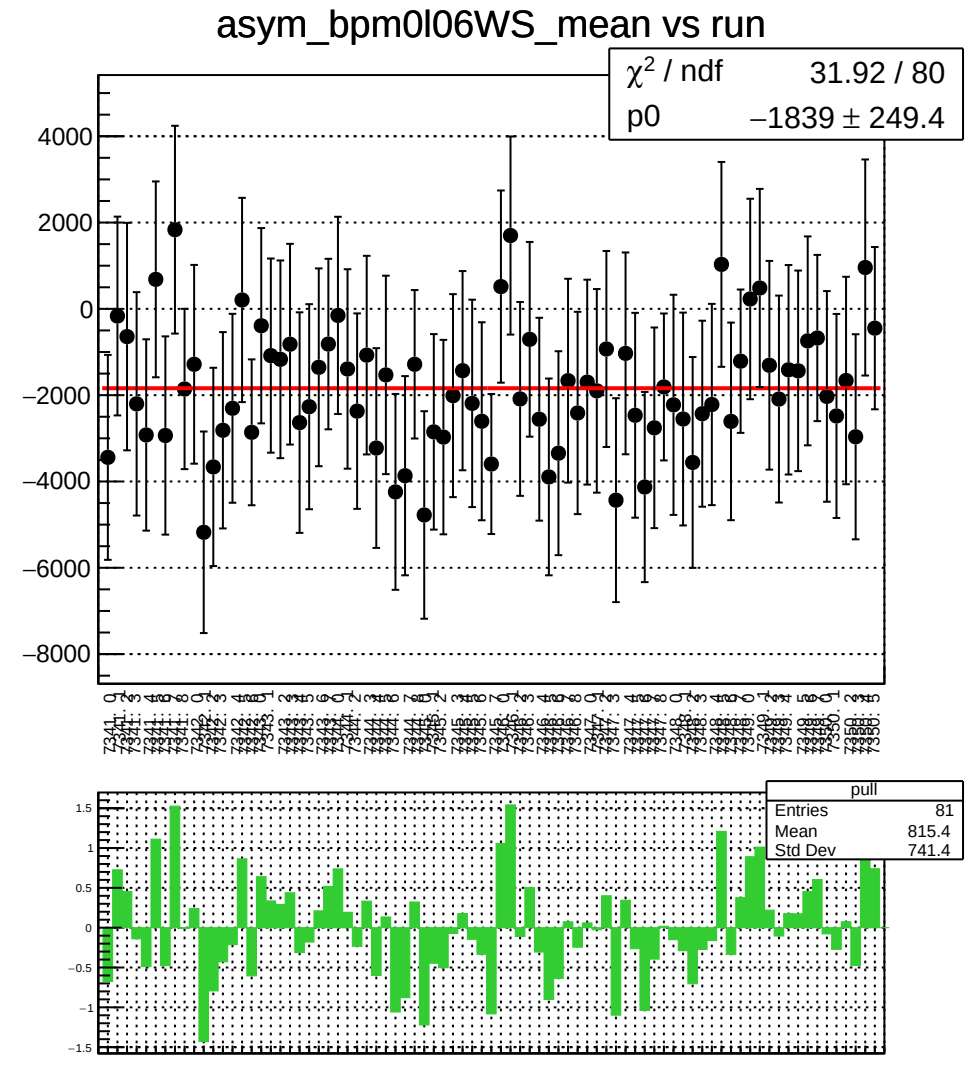

asym_bpm0l04WS_mean vs run
χ² / ndf 34.48 / 80
p0 −1715 ± 249.4
pull
Entries 81
Mean 188.1
Std Dev 118.3

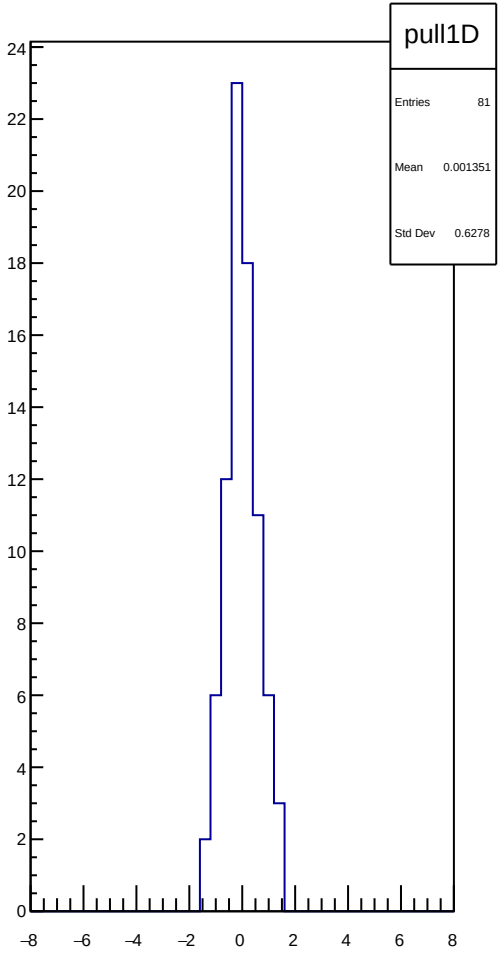

pull1D
Entries 81
Mean 0.009082
Std Dev 0.6524

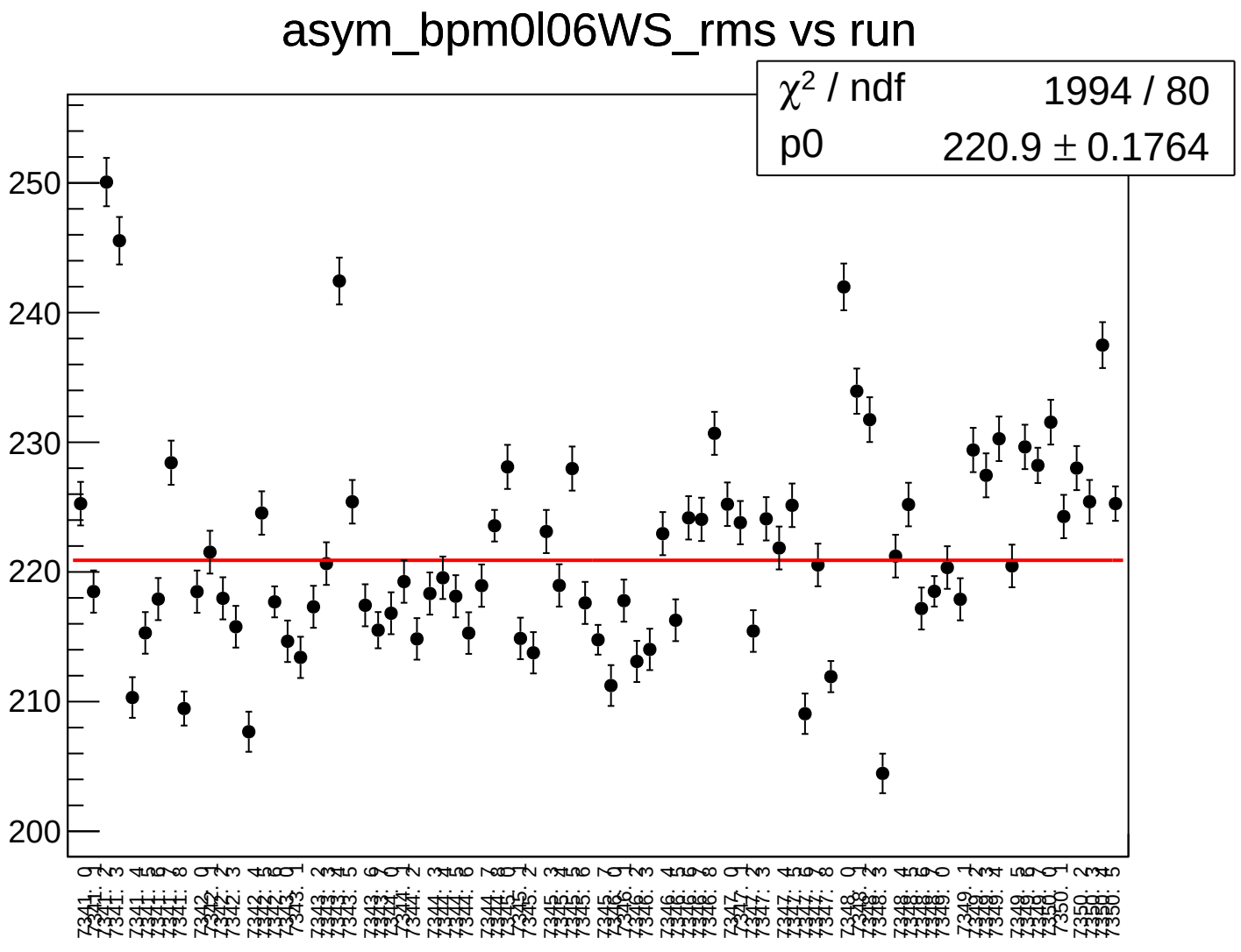

asym_bpm0l04WS_rms vs run
χ² / ndf 2266 / 80
p0 220.9 ± 0.1764
250
240
230
220
210
200

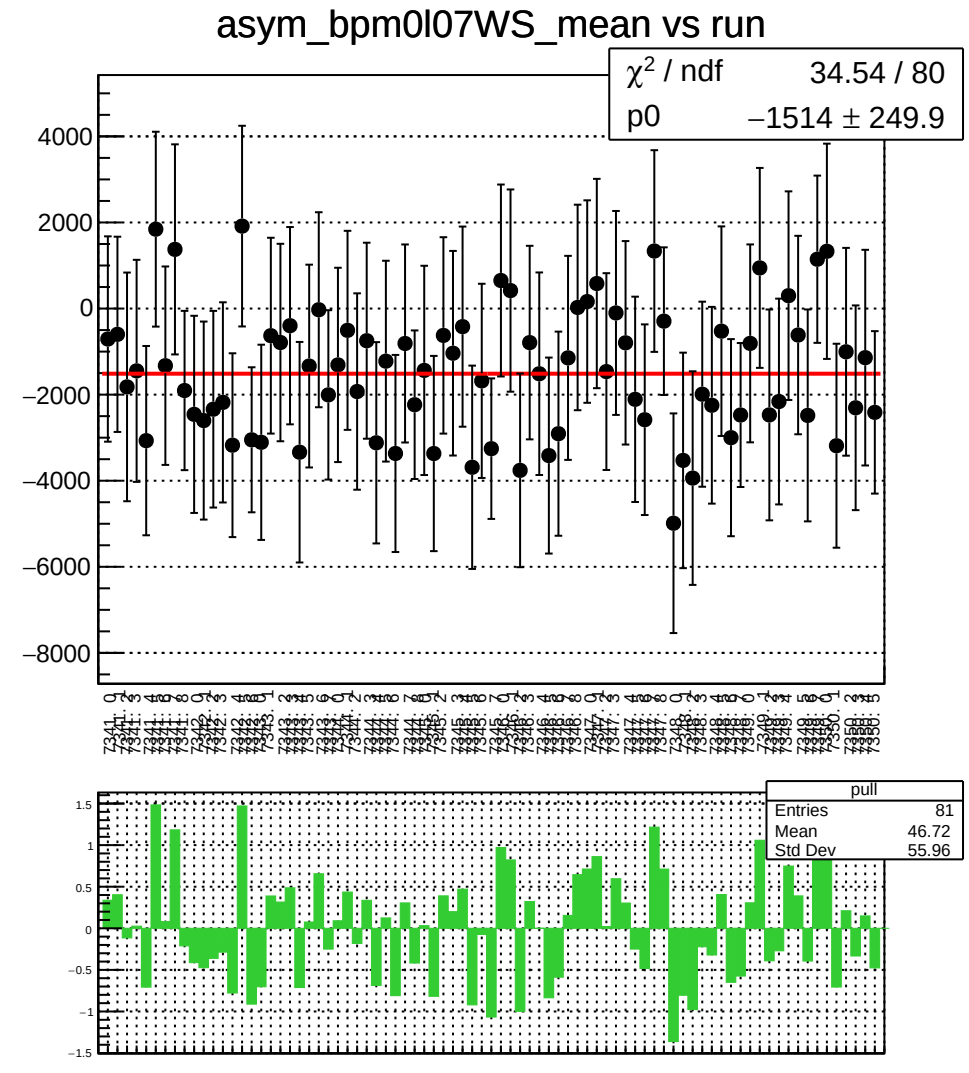

asym_bpm0l05WS_mean vs run
χ² / ndf 32.24 / 80
p0 −1820 ± 254.6
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 476.7
Std Dev 386.7
1.5
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 81
Mean 0.001191
Std Dev 0.6309
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

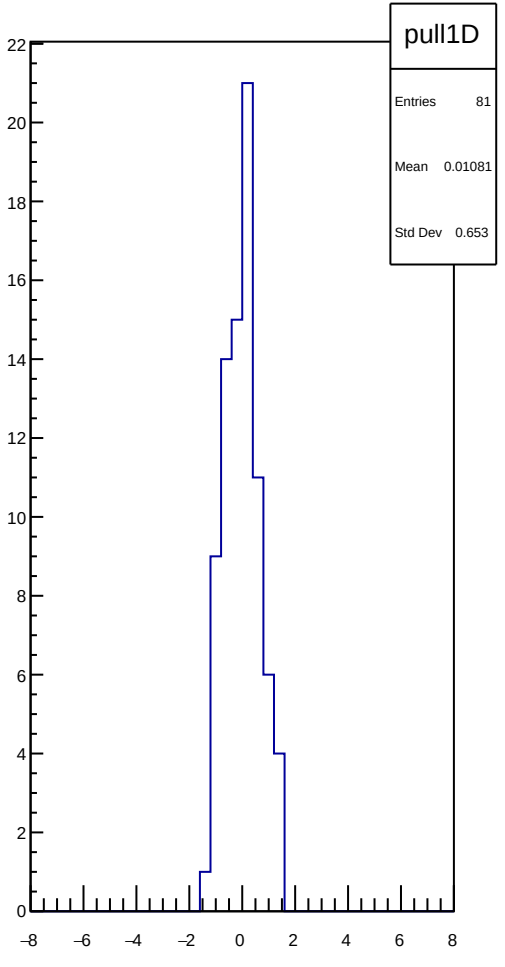

asym_bpm0l05WS_rms vs run
χ^2 / ndf 2048 / 80
p0 225.5 ± 0.18
260
250
240
230
220
210

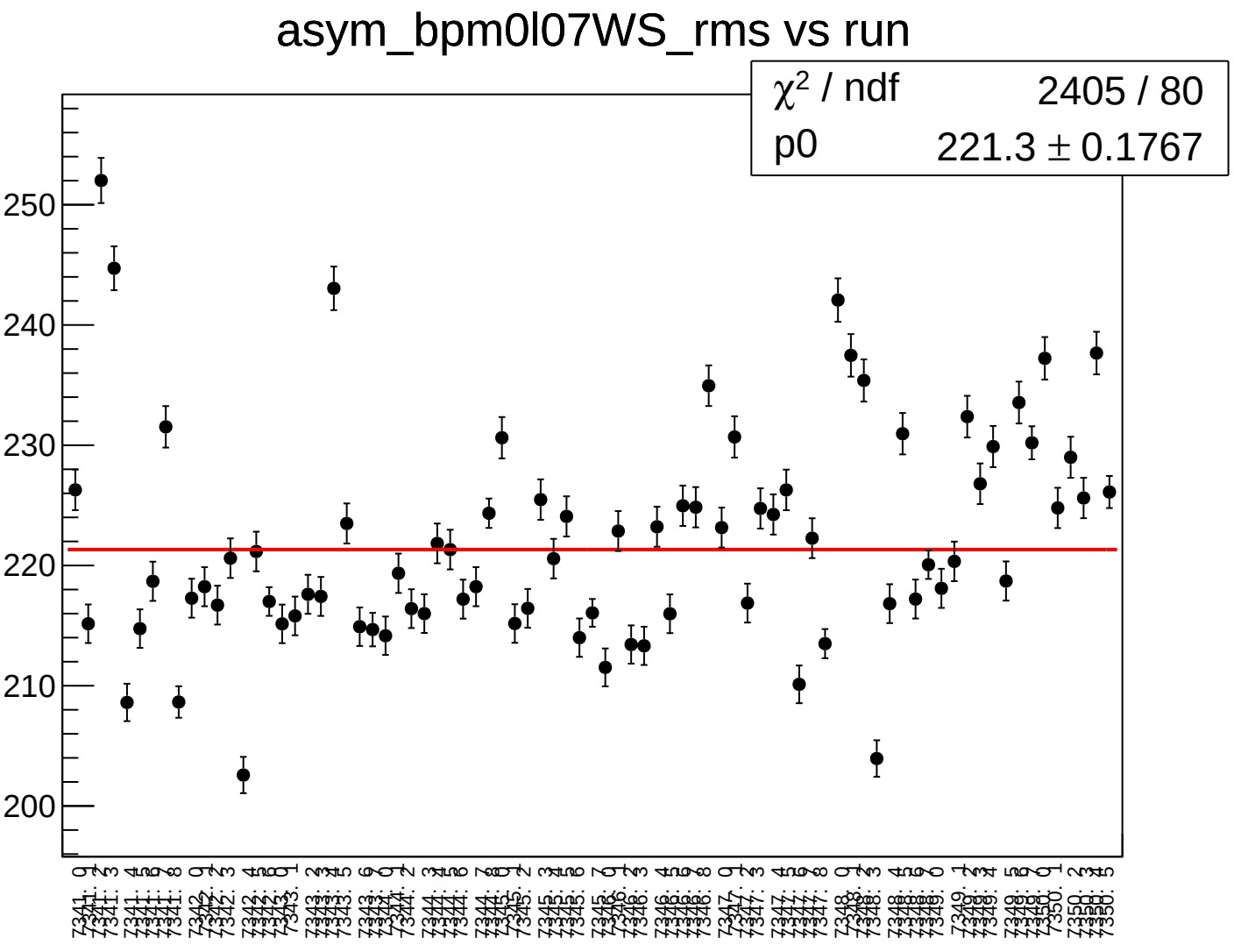

asym_bpm0l06WS_mean vs run
χ² / ndf 31.92 / 80
p0 −1839 ± 249.4
pull
Entries 81
Mean 815.4
Std Dev 741.4

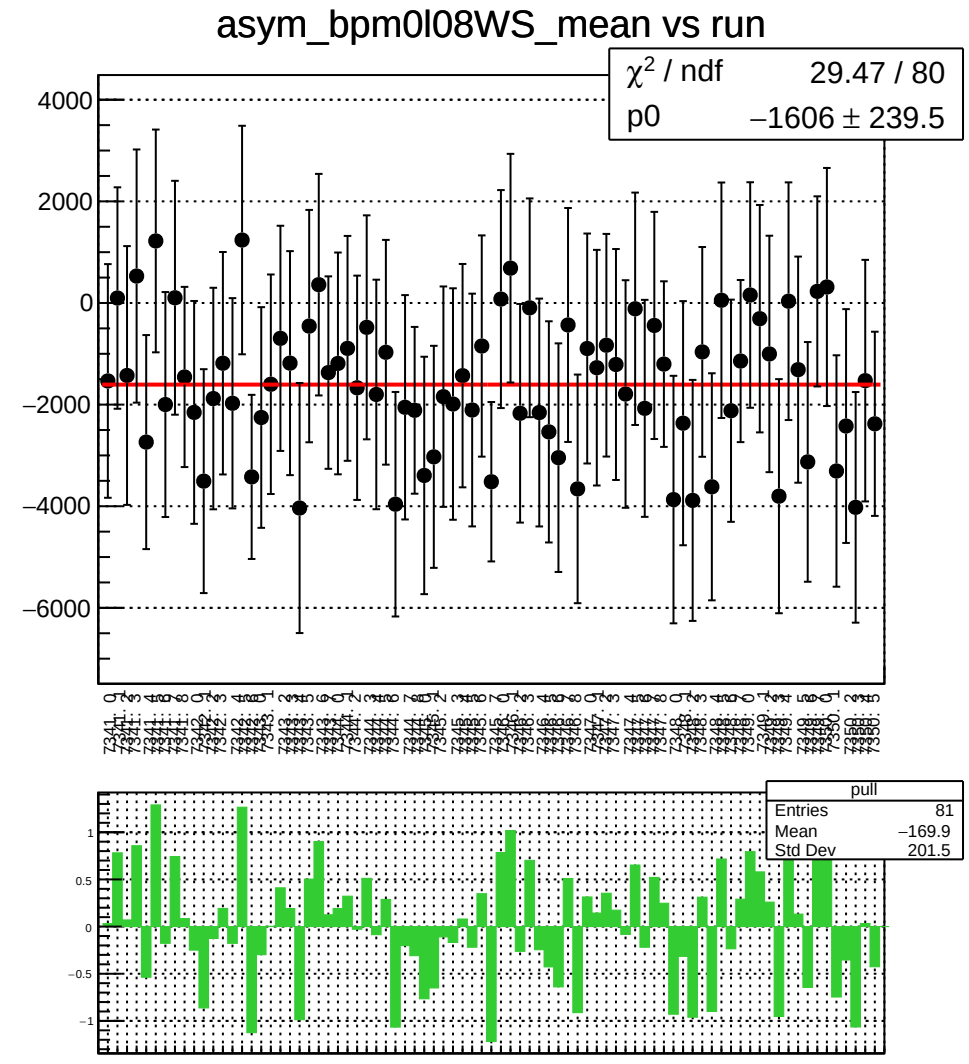

pull1D
Entries 81
Mean 0.001351
Std Dev 0.6278

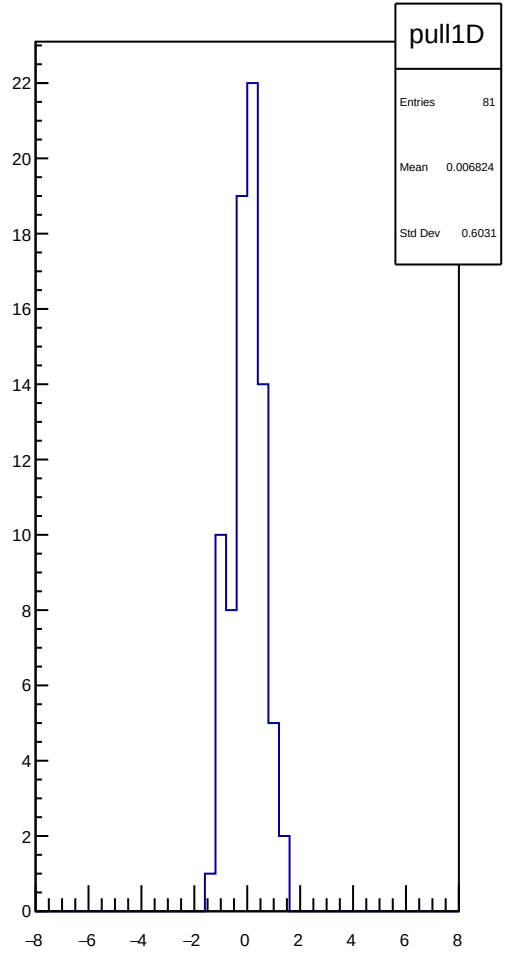

asym_bpm0l06WS_rms vs run
χ² / ndf 1994 / 80
p0 220.9 ± 0.1764
250
240
230
220
210
200

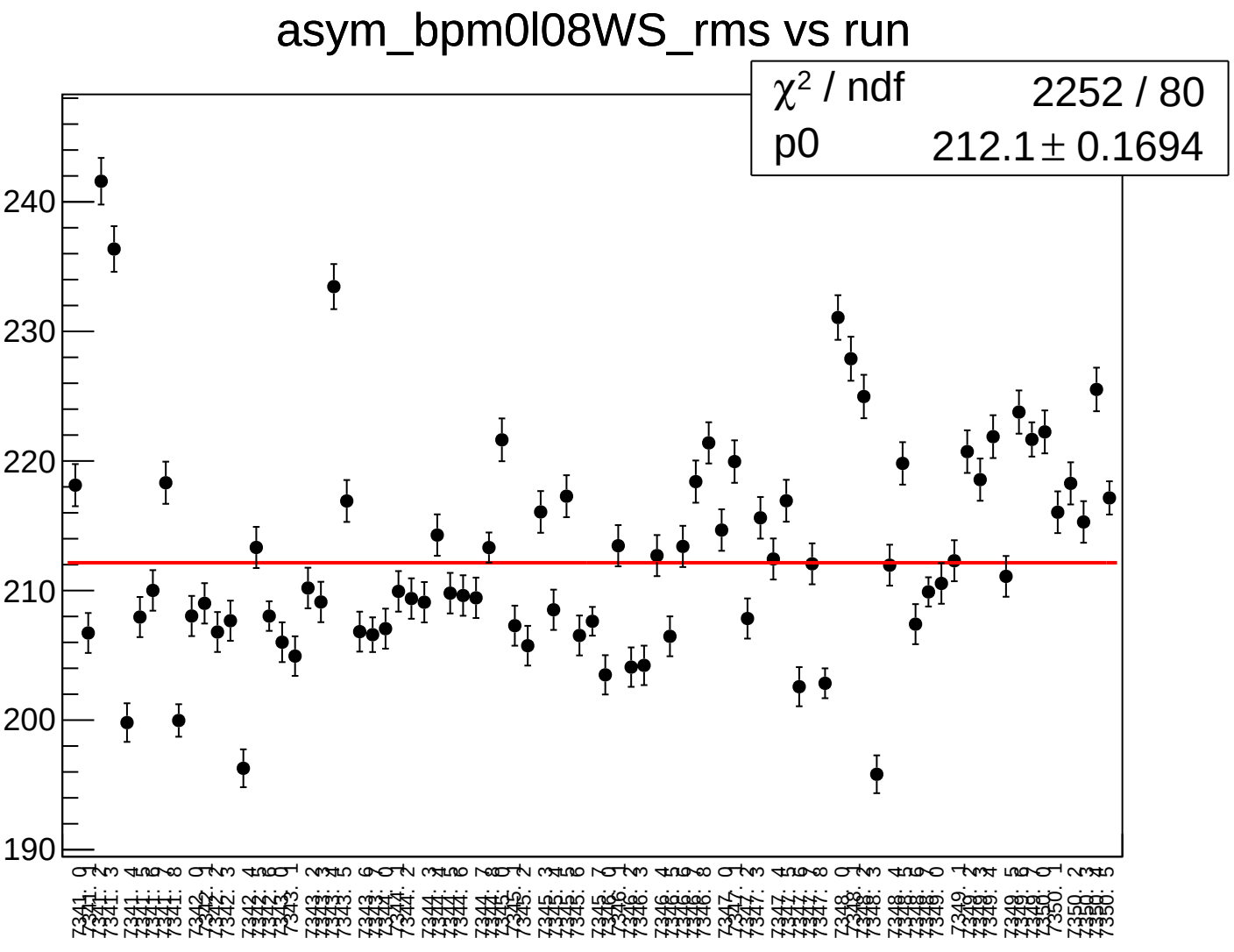

asym_bpm0l07WS_mean vs run
χ² / ndf 34.54 / 80
p0 −1514 ± 249.9
4000
2000
0
−2000
−4000
−6000
−8000
pull
Entries 81
Mean 46.72
Std Dev 55.96
1.5
1
0.5
0
−0.5
−1
−1.5

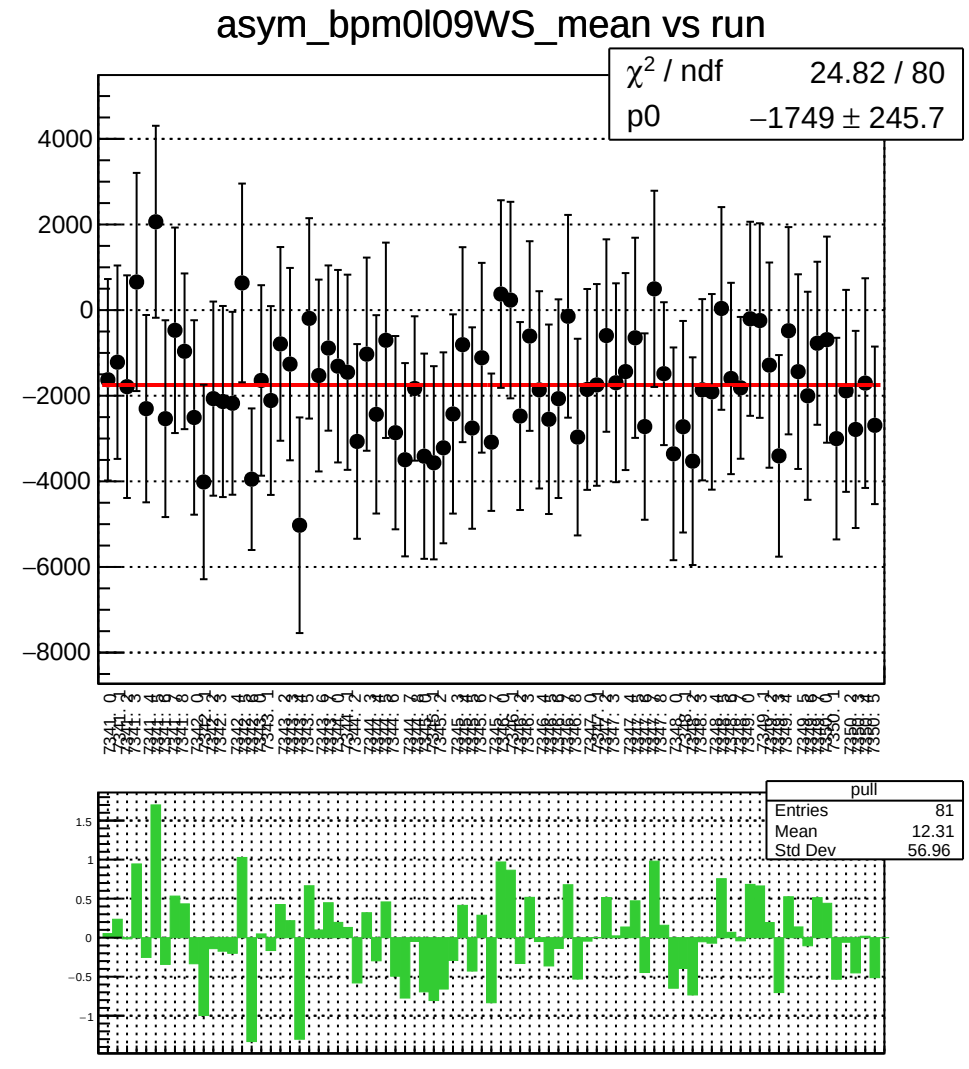

pull1D
Entries 81
Mean 0.01081
Std Dev 0.653
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

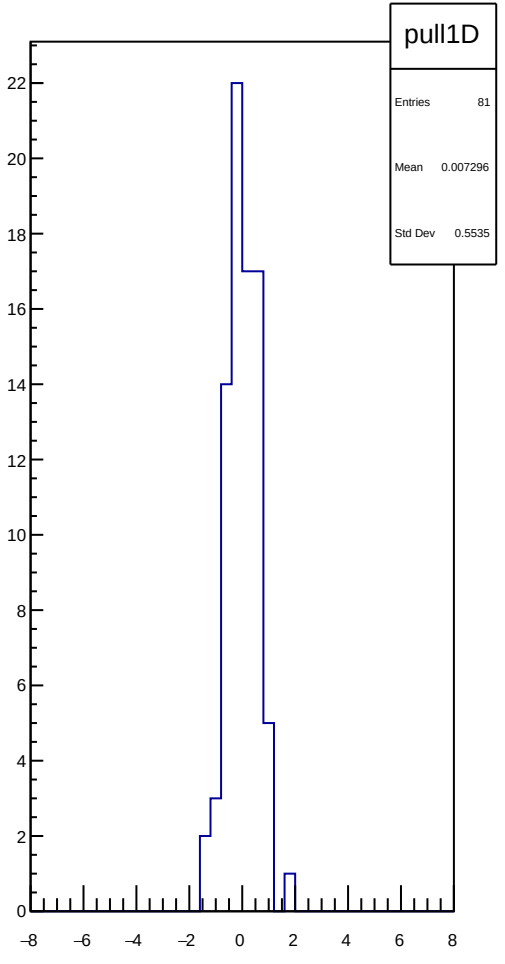

asym_bpm0l07WS_rms vs run
χ² / ndf 2405 / 80
p0 221.3 ± 0.1767
250
240
230
220
210
200

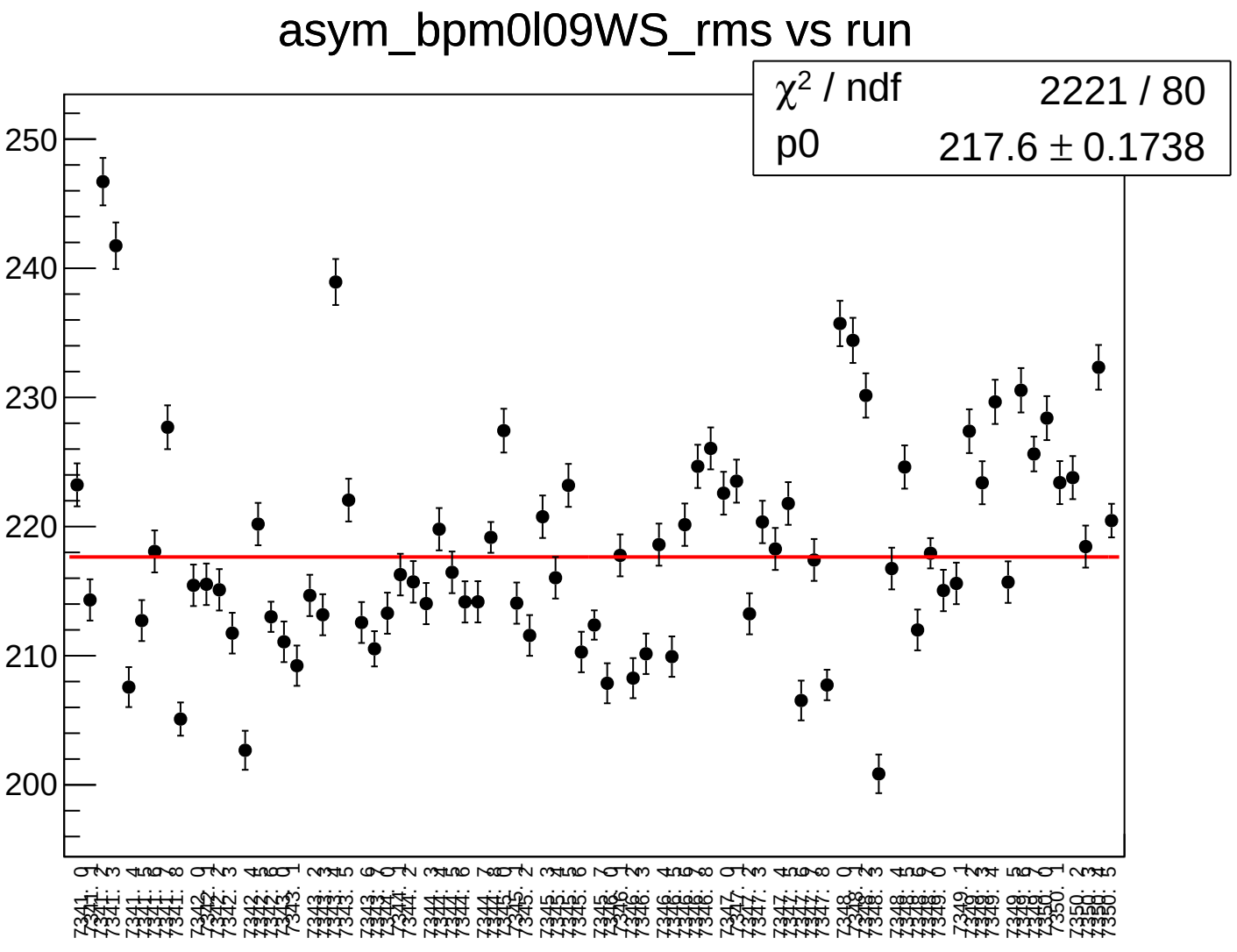

asym_bpm0l08WS_mean vs run
χ^2 / ndf 29.47 / 80
p0 −1606 ± 239.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −169.9
Std Dev 201.5
1
0.5
0
−0.5
−1

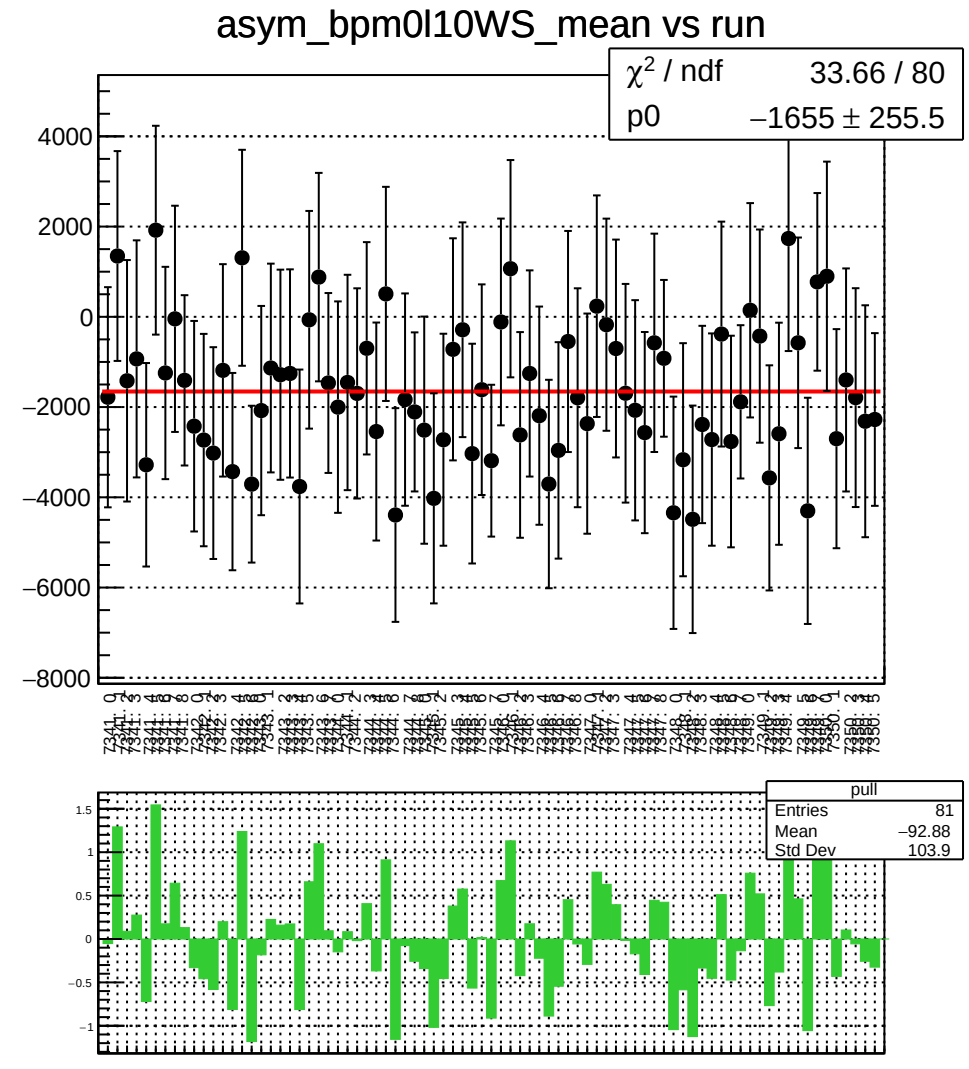

pull1D
Entries 81
Mean 0.006824
Std Dev 0.6031
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

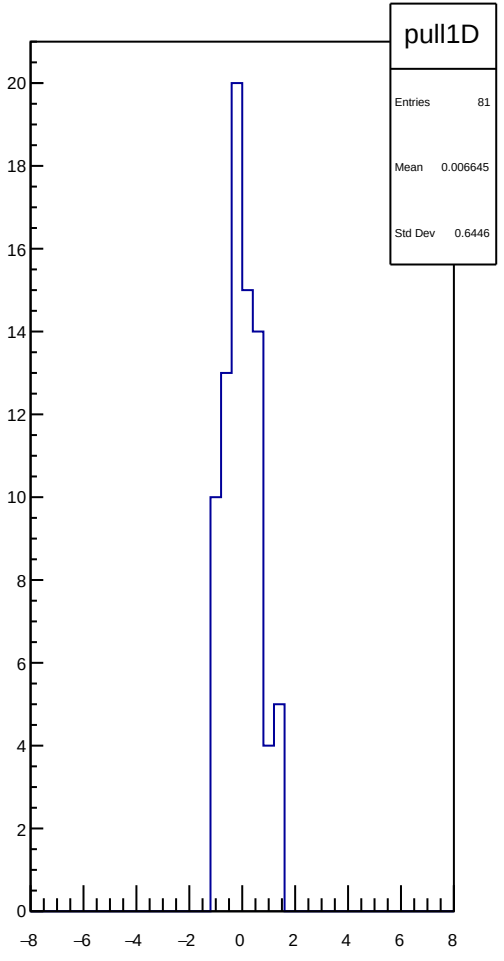

asym_bpm0l08WS_rms vs run
χ² / ndf 2252 / 80
p0 212.1 ± 0.1694
240
230
220
210
200
190

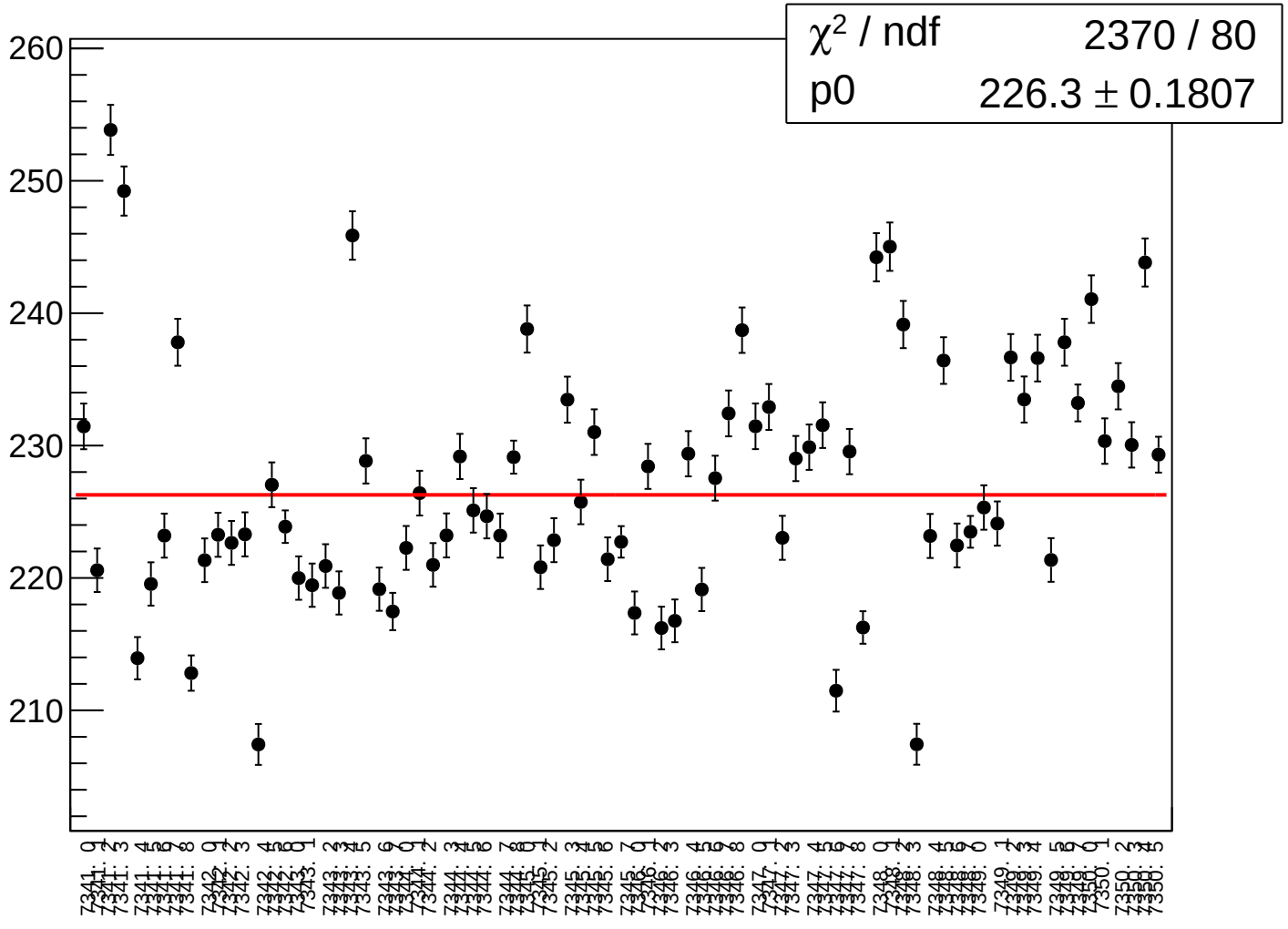

asym_bpm0l09WS_mean vs run
χ² / ndf 24.82 / 80
p0 −1749 ± 245.7
pull
Entries 81
Mean 12.31
Std Dev 56.96

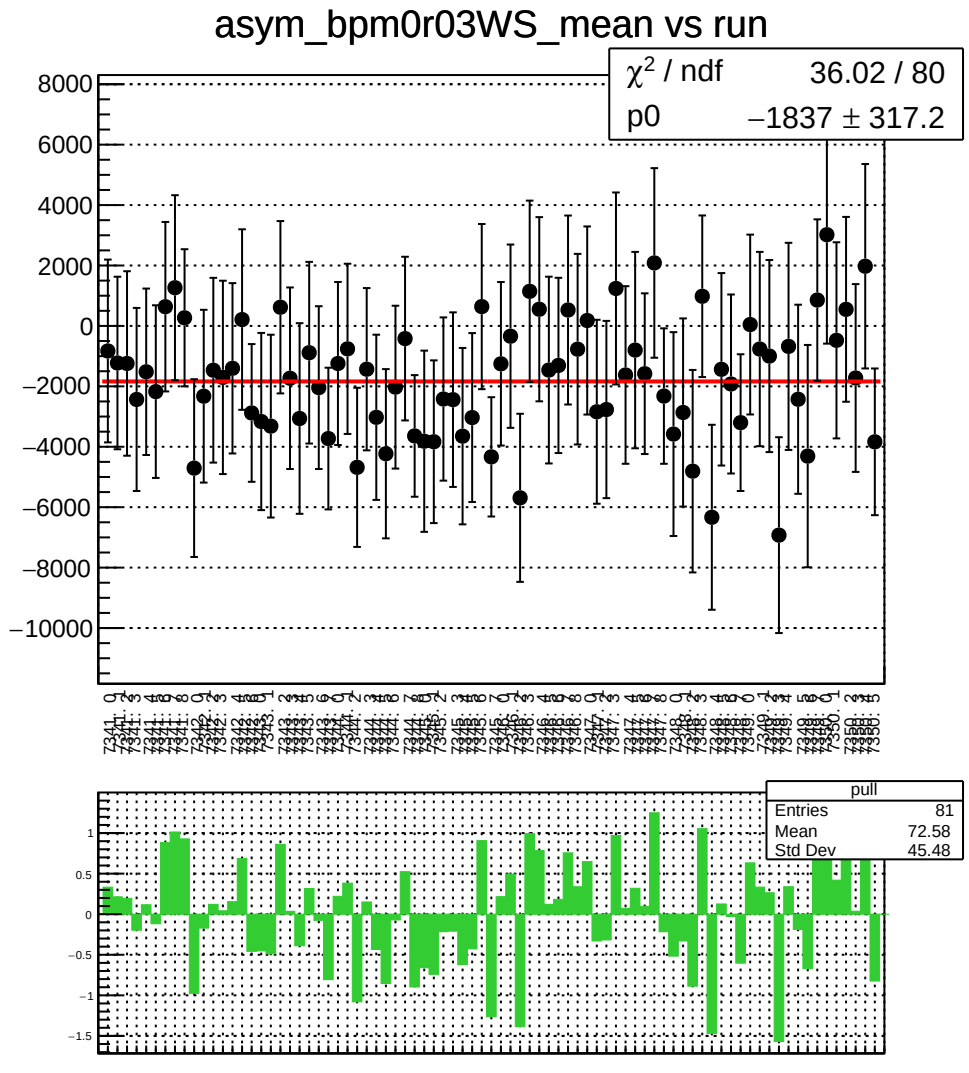

pull1D
Entries 81
Mean 0.007296
Std Dev 0.5535

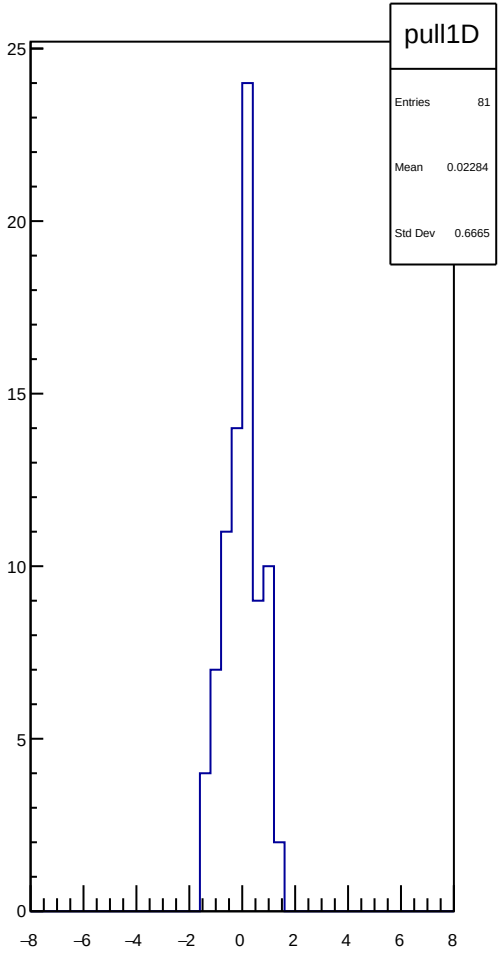

asym_bpm0l09WS_rms vs run
χ² / ndf 2221 / 80
p0 217.6 ± 0.1738
250
240
230
220
210
200

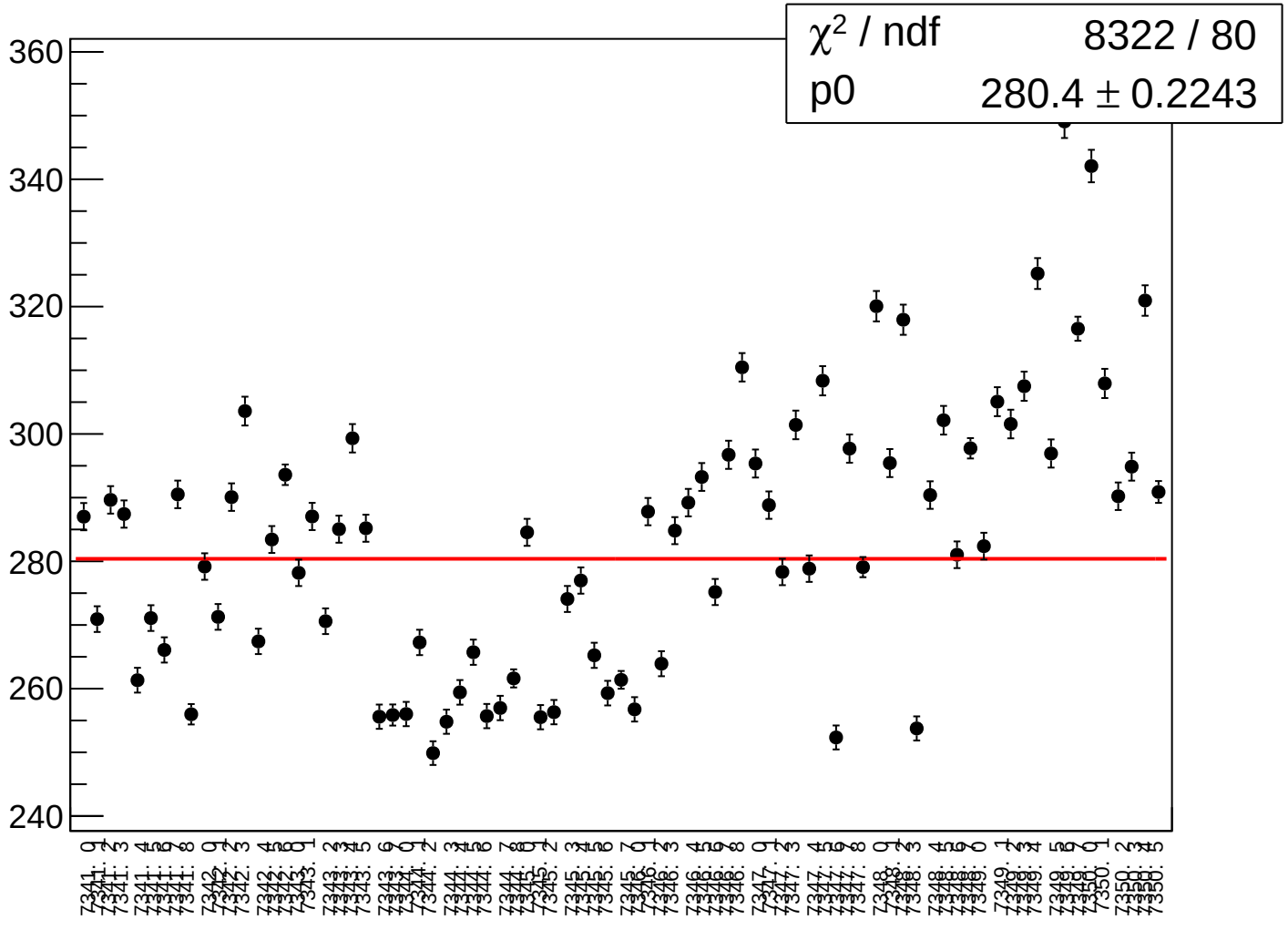

asym_bpm0l10WS_mean vs run
χ² / ndf 33.66 / 80
p0 −1655 ± 255.5
pull
Entries 81
Mean −92.88
Std Dev 103.9

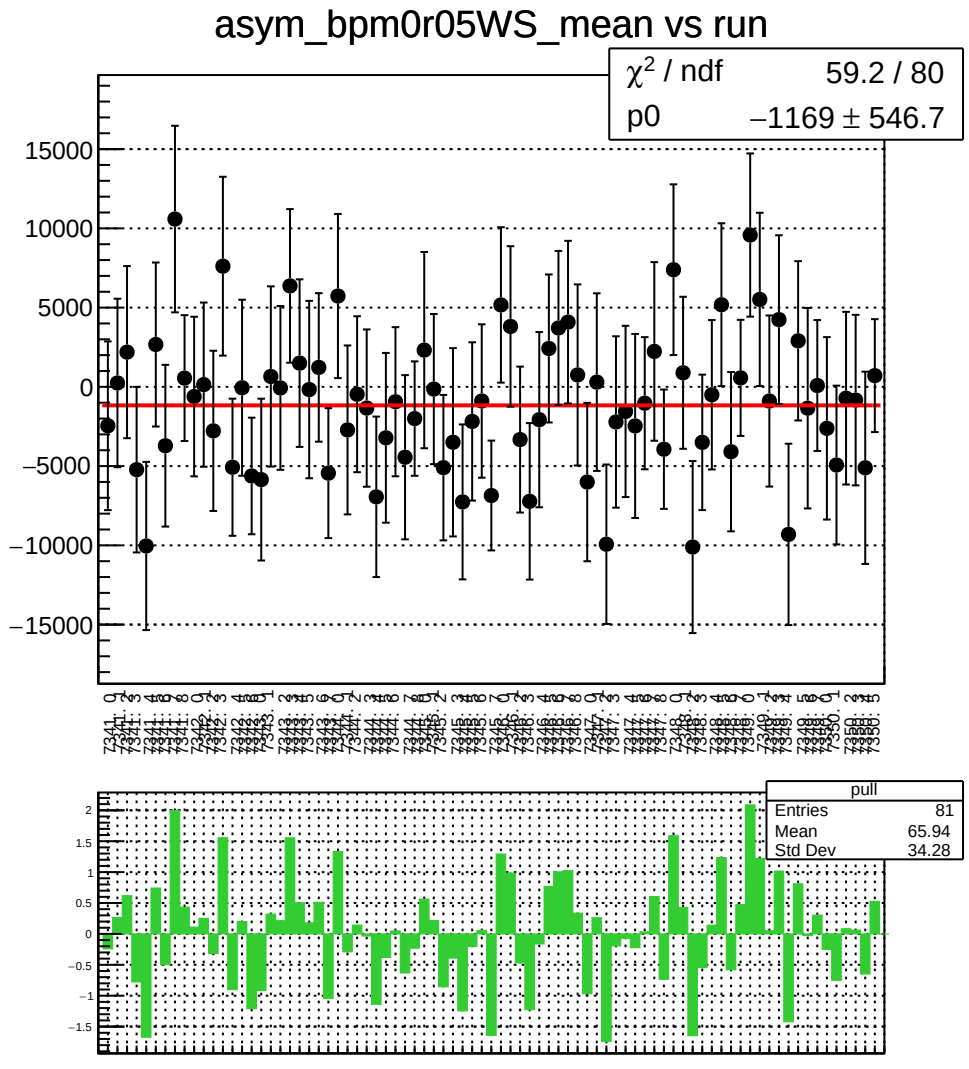

pull1D
Entries 81
Mean 0.006645
Std Dev 0.6446

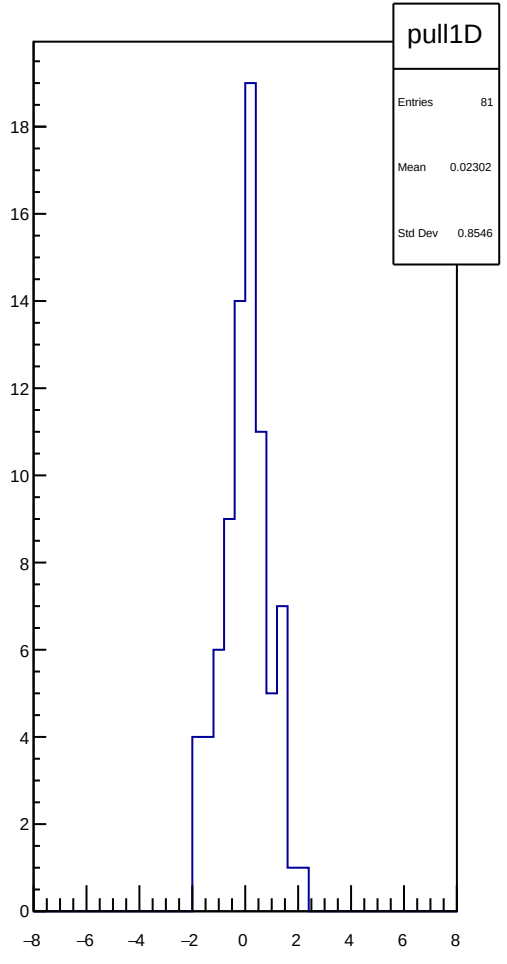

asym_bpm0l10WS_rms vs run
χ² / ndf 2370 / 80
p0 226.3 ± 0.1807
260
250
240
230
220
210

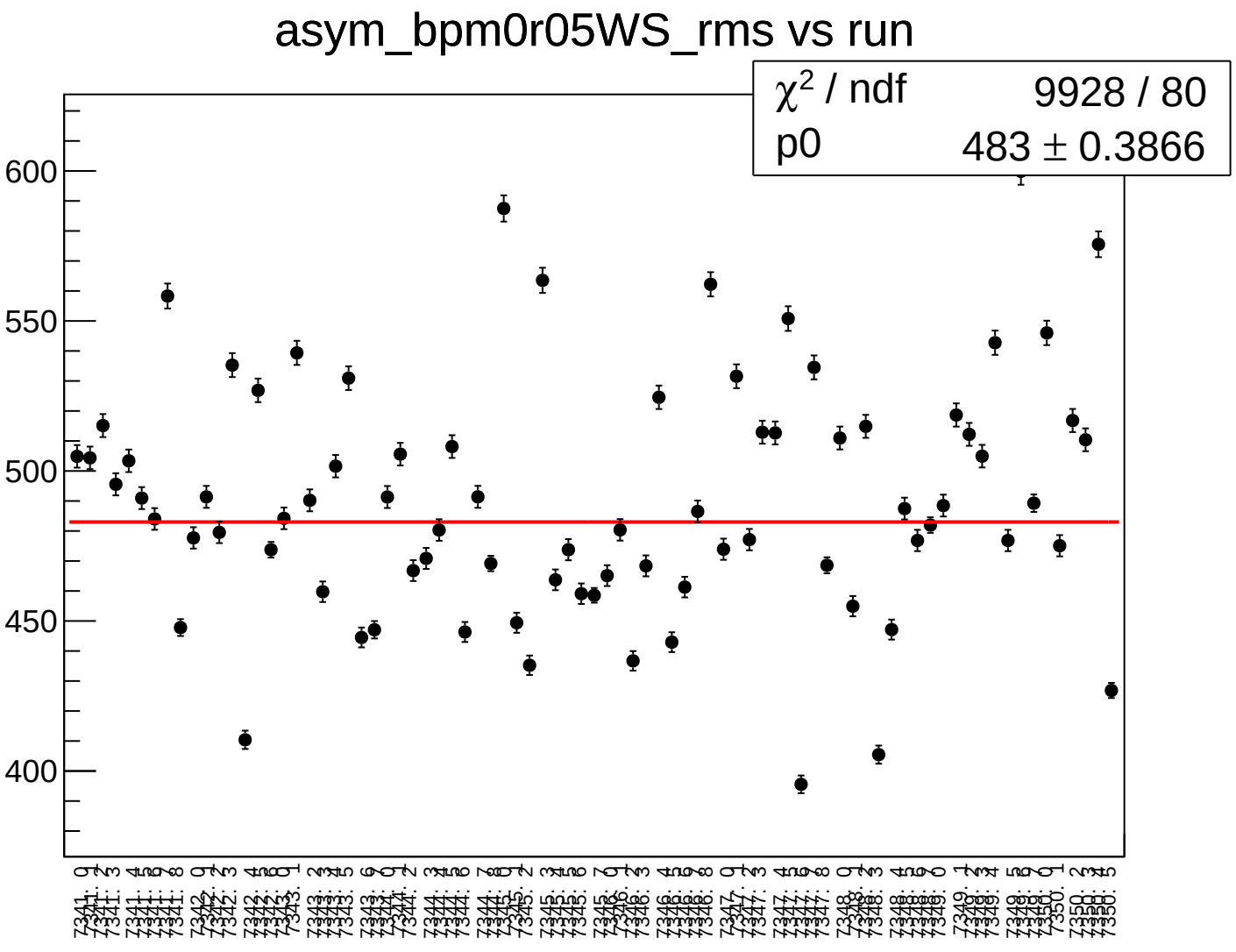

asym_bpm0r03WS_mean vs run
χ² / ndf 36.02 / 80
p0 −1837 ± 317.2
pull
Entries 81
Mean 72.58
Std Dev 45.48

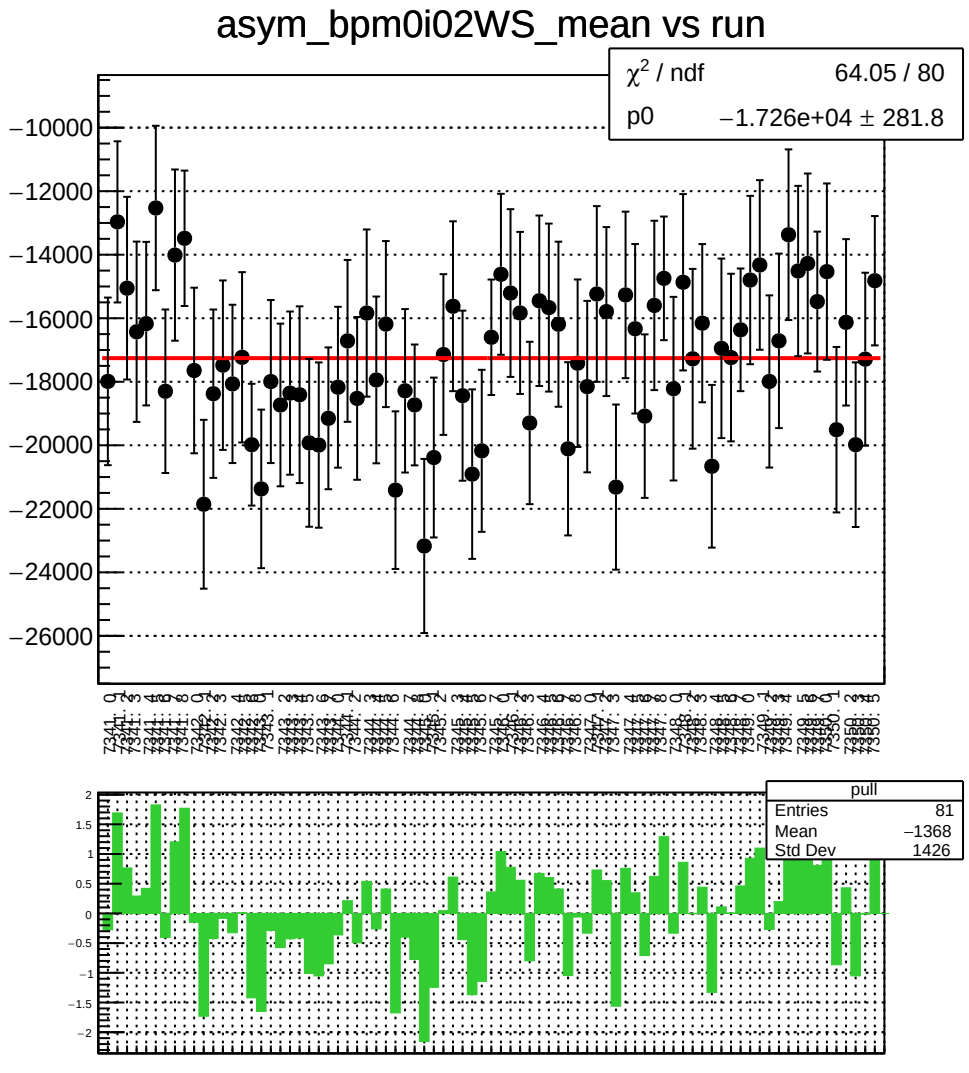

pull1D
Entries 81
Mean 0.02284
Std Dev 0.6665

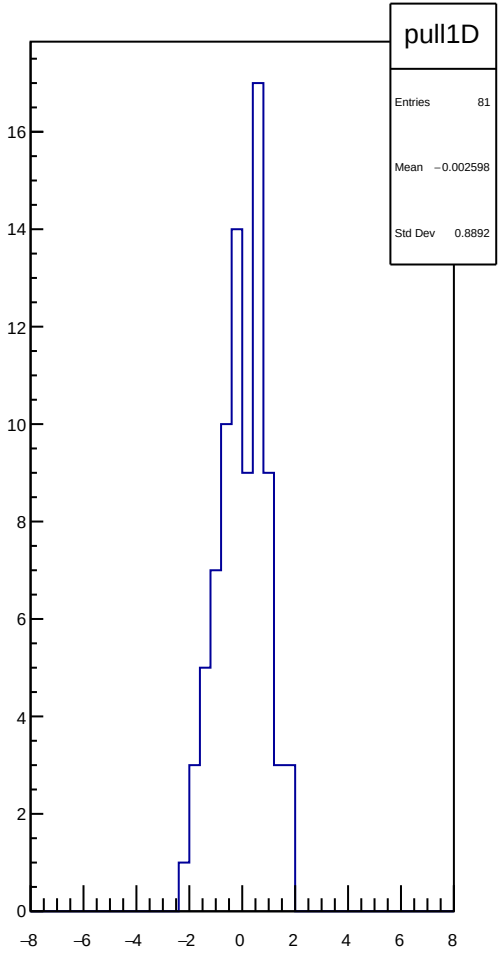

asym_bpm0r03WS_rms vs run
χ² / ndf 8322 / 80
p0 280.4 ± 0.2243
360
340
320
300
280
260
240

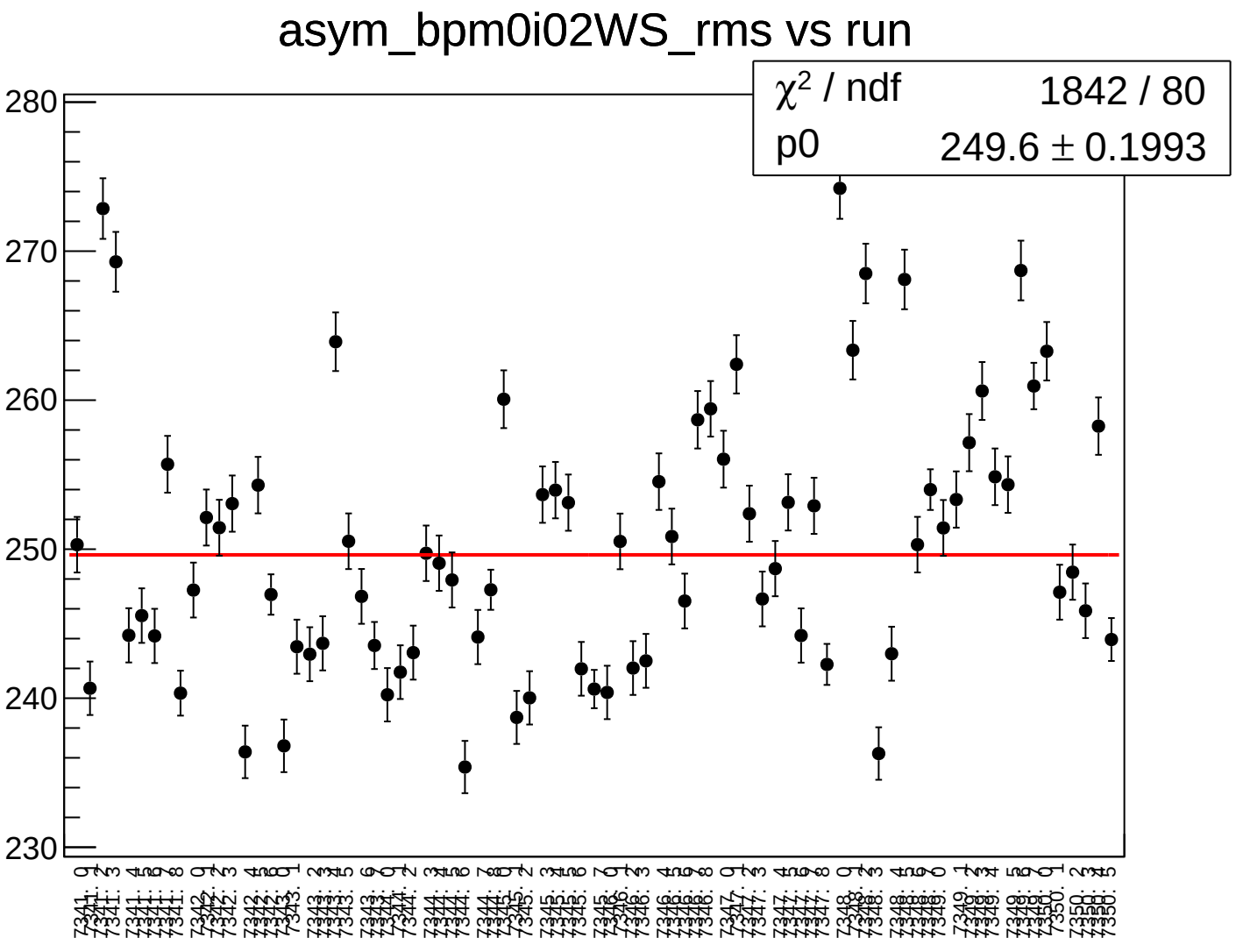

asym_bpm0r05WS_mean vs run
χ² / ndf 59.2 / 80
p0 −1169 ± 546.7
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 81
Mean 65.94
Std Dev 34.28
2
1.5
1
0.5
0
−0.5
−1
−1.5

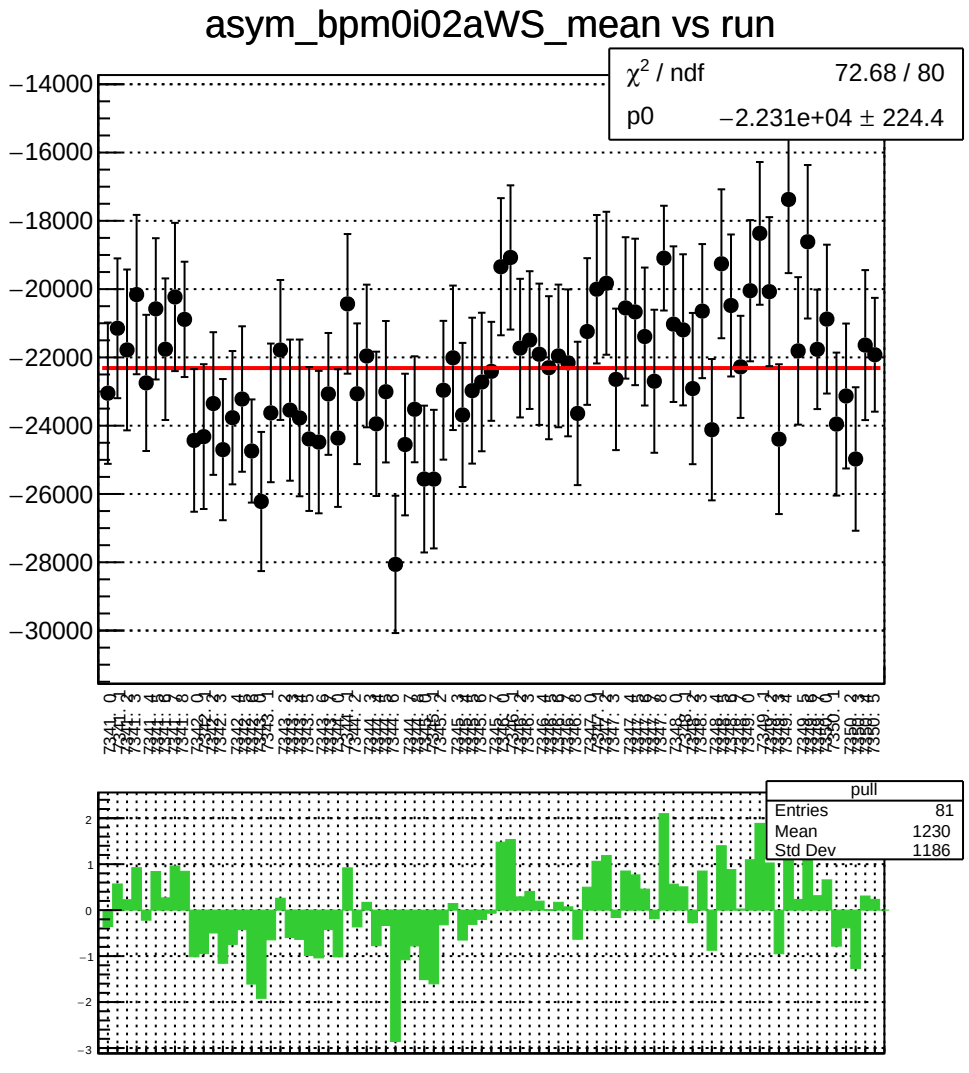

pull1D
Entries 81
Mean 0.02302
Std Dev 0.8546
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

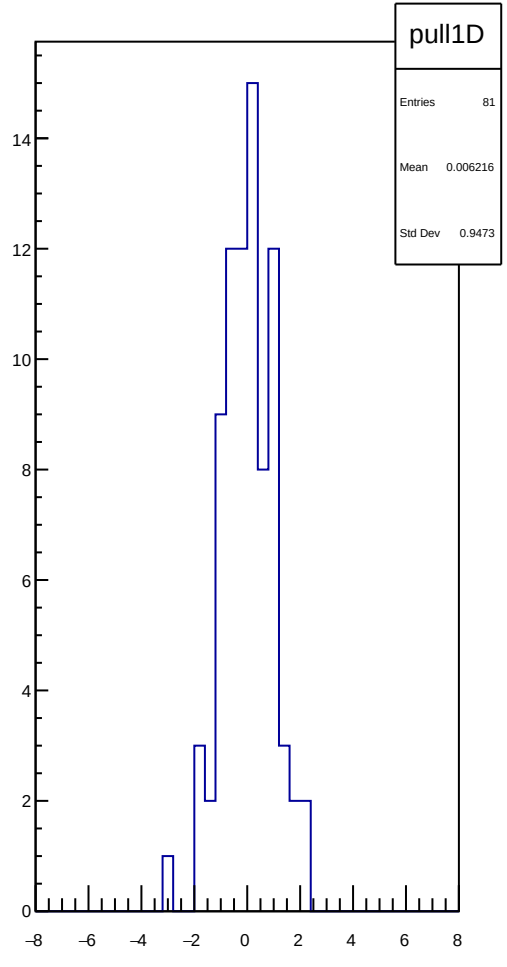

asym_bpm0r05WS_rms vs run
χ^2 / ndf 9928 / 80
p0 483 ± 0.3866
600
550
500
450
400

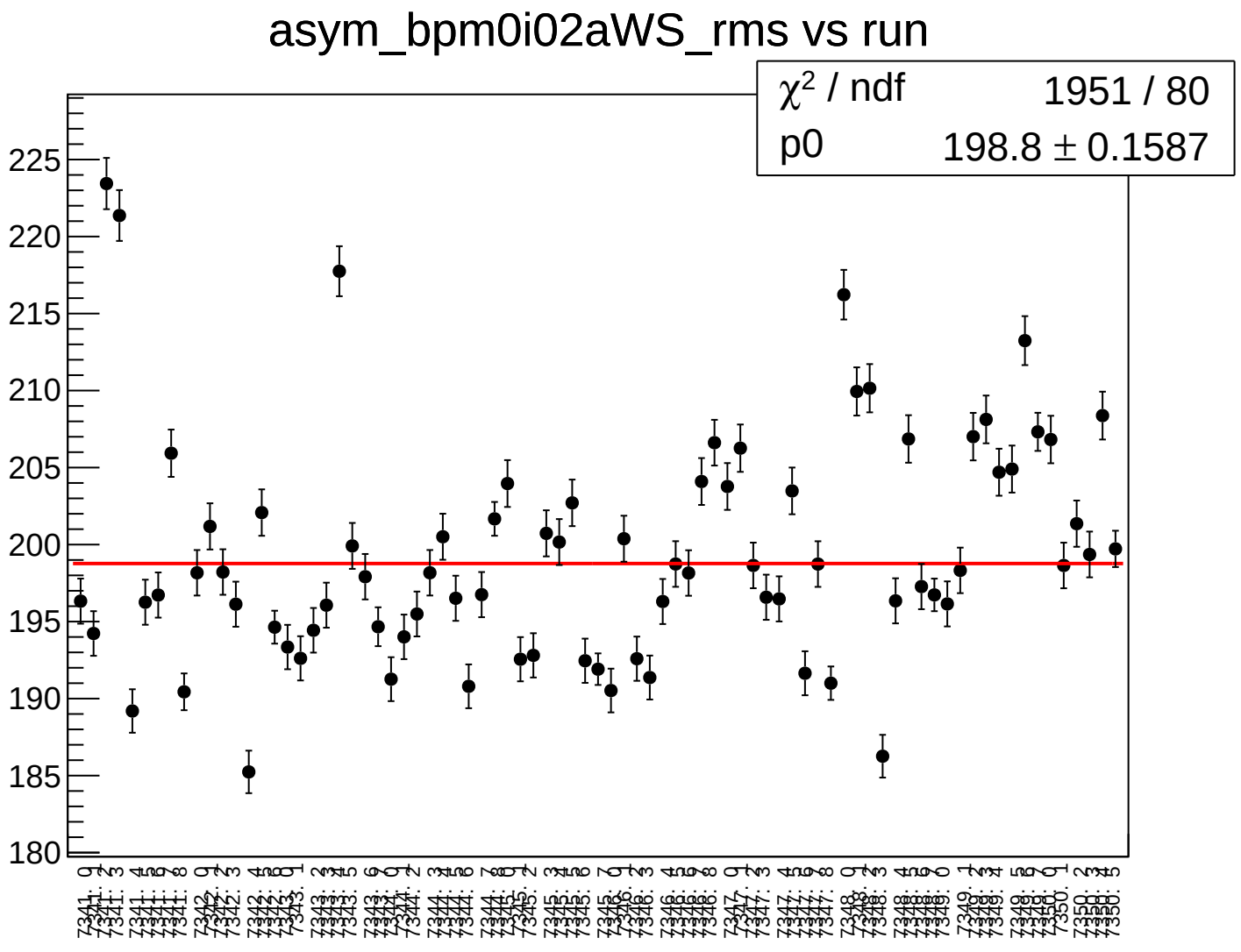

asym_bpm0i02WS_mean vs run
χ² / ndf 64.05 / 80
p0 −1.726e+04 ± 281.8
pull
Entries 81
Mean −1368
Std Dev 1426

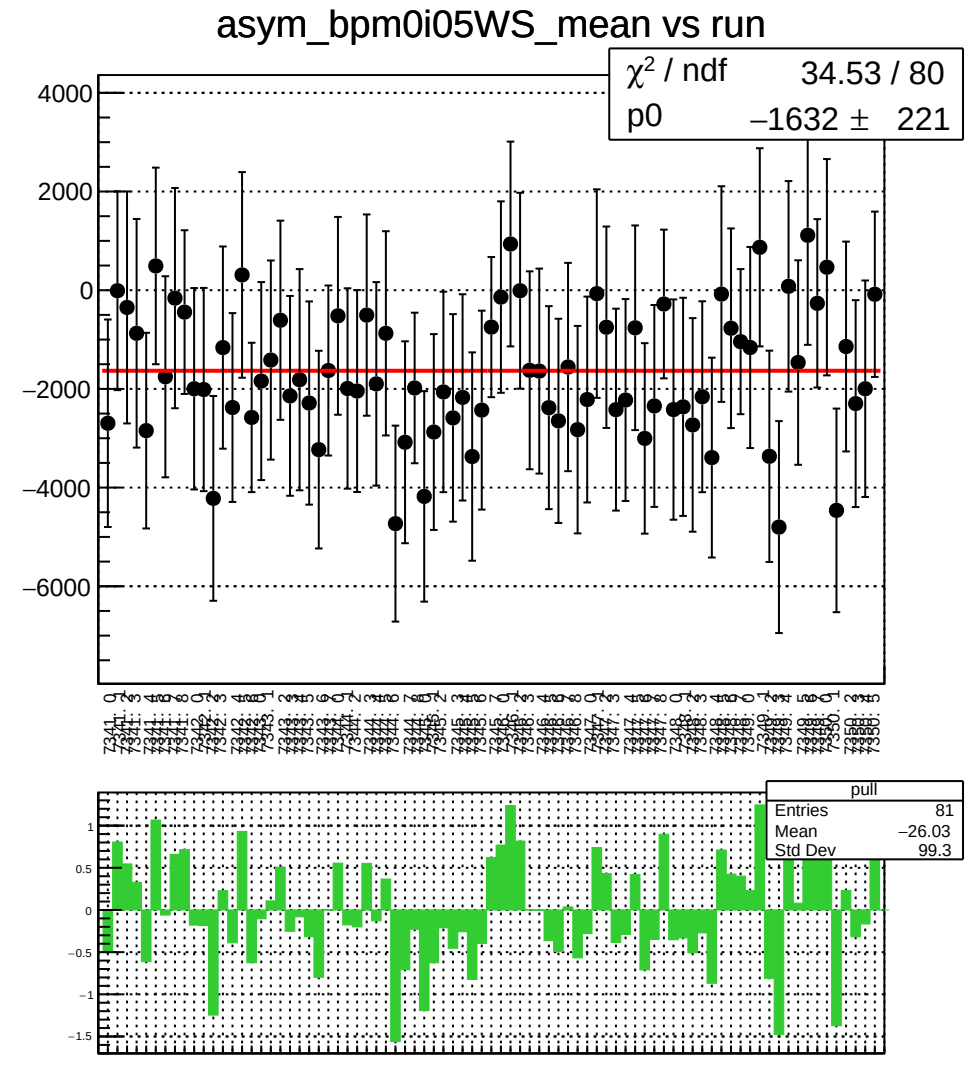

pull1D
Entries 81
Mean −0.002598
Std Dev 0.8892

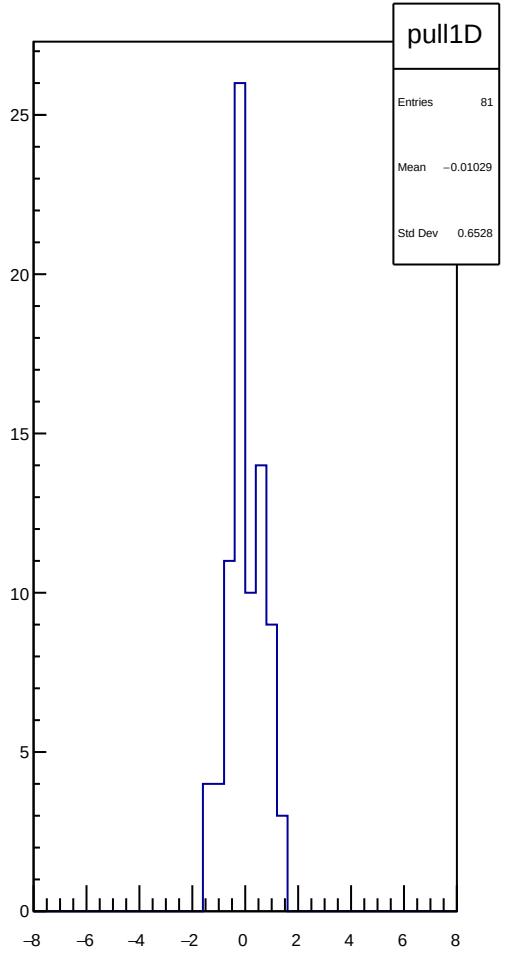

asym_bpm0i02WS_rms vs run
χ^2 / ndf 1842 / 80
p0 249.6 ± 0.1993
280
270
260
250
240
230

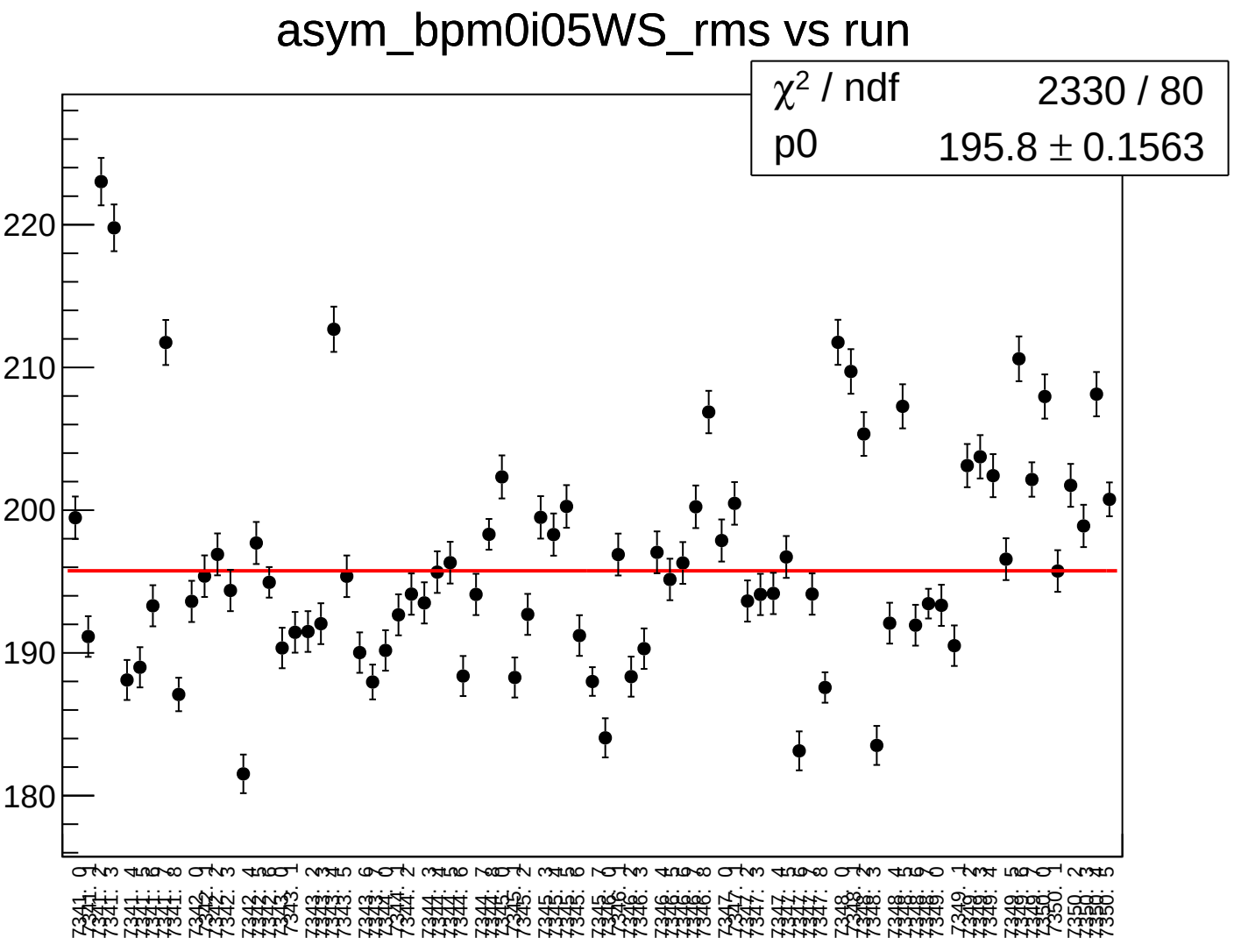

asym_bpm0i02aWS_mean vs run
χ² / ndf 72.68 / 80
p0 −2.231e+04 ± 224.4
pull
Entries 81
Mean 1230
Std Dev 1186

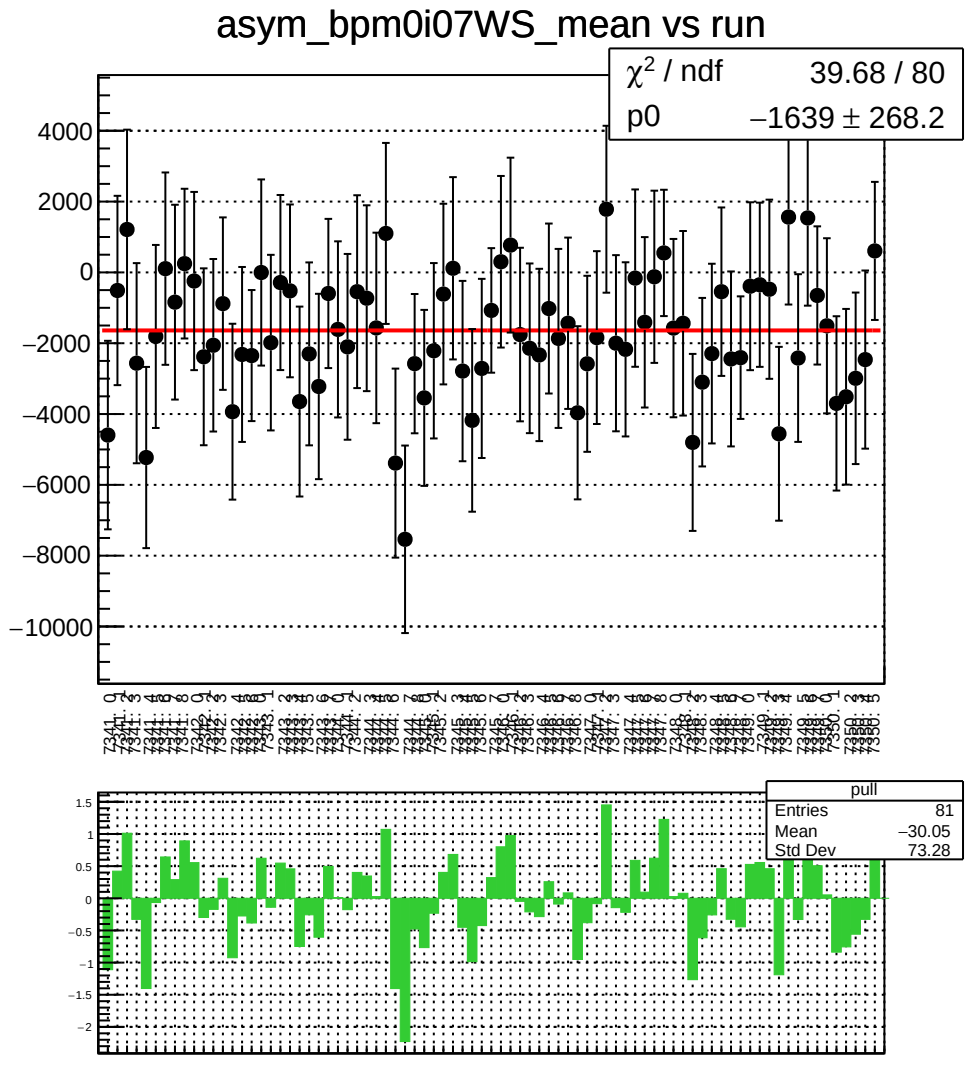

pull1D
Entries 81
Mean 0.006216
Std Dev 0.9473

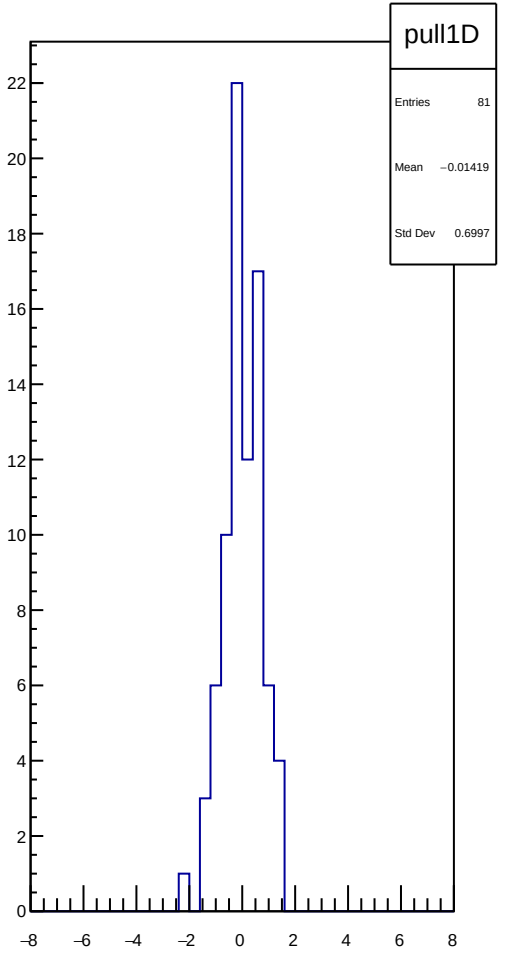

asym_bpm0i02aWS_rms vs run
χ² / ndf 1951 / 80
p0 198.8 ± 0.1587
225
220
215
210
205
200
195
190
185
180

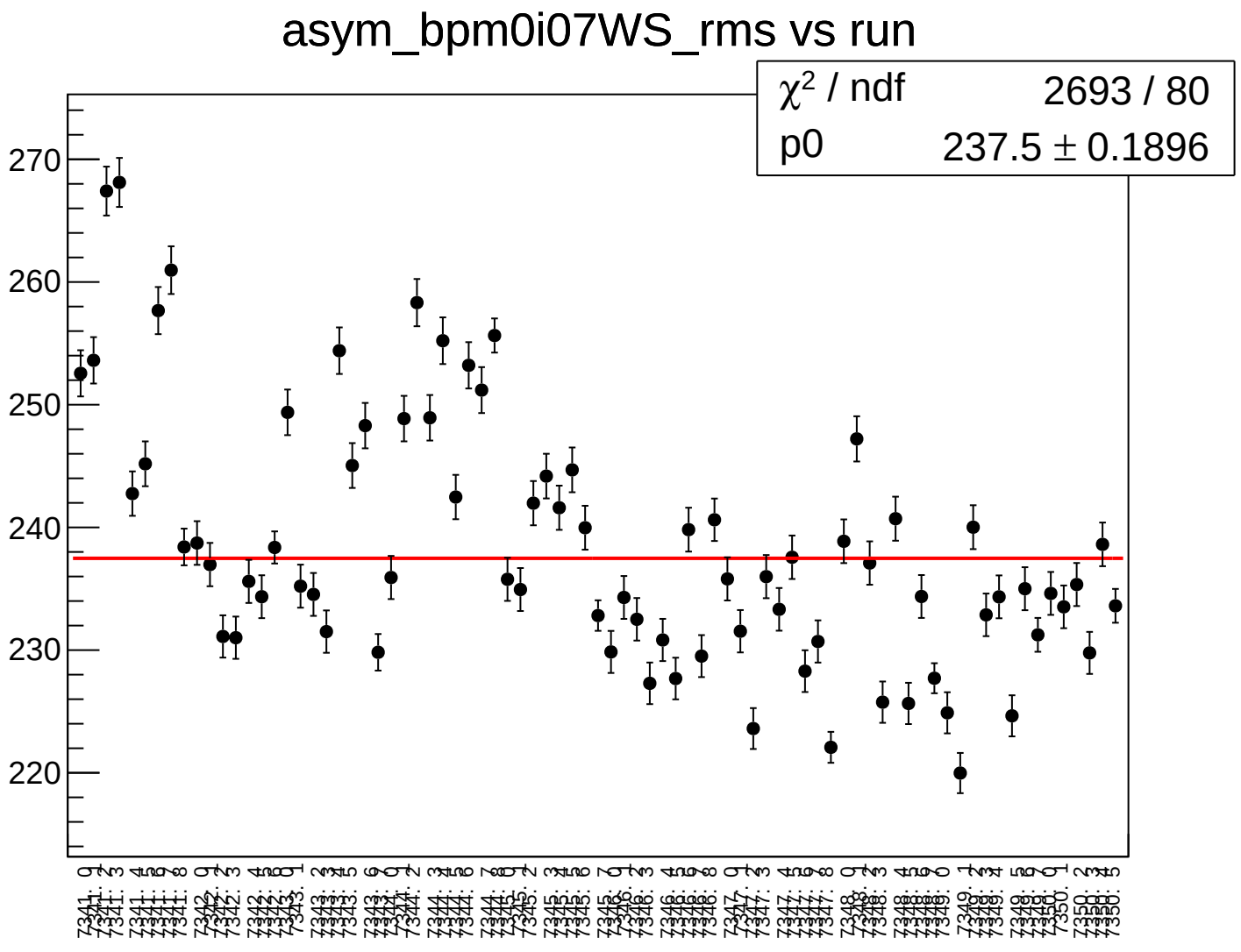

asym_bpm0i05WS_mean vs run
χ² / ndf 34.53 / 80
p0 −1632 ± 221
4000
2000
0
−2000
−4000
−6000
pull
Entries 81
Mean −26.03
Std Dev 99.3
1
0.5
0
−0.5
−1
−1.5

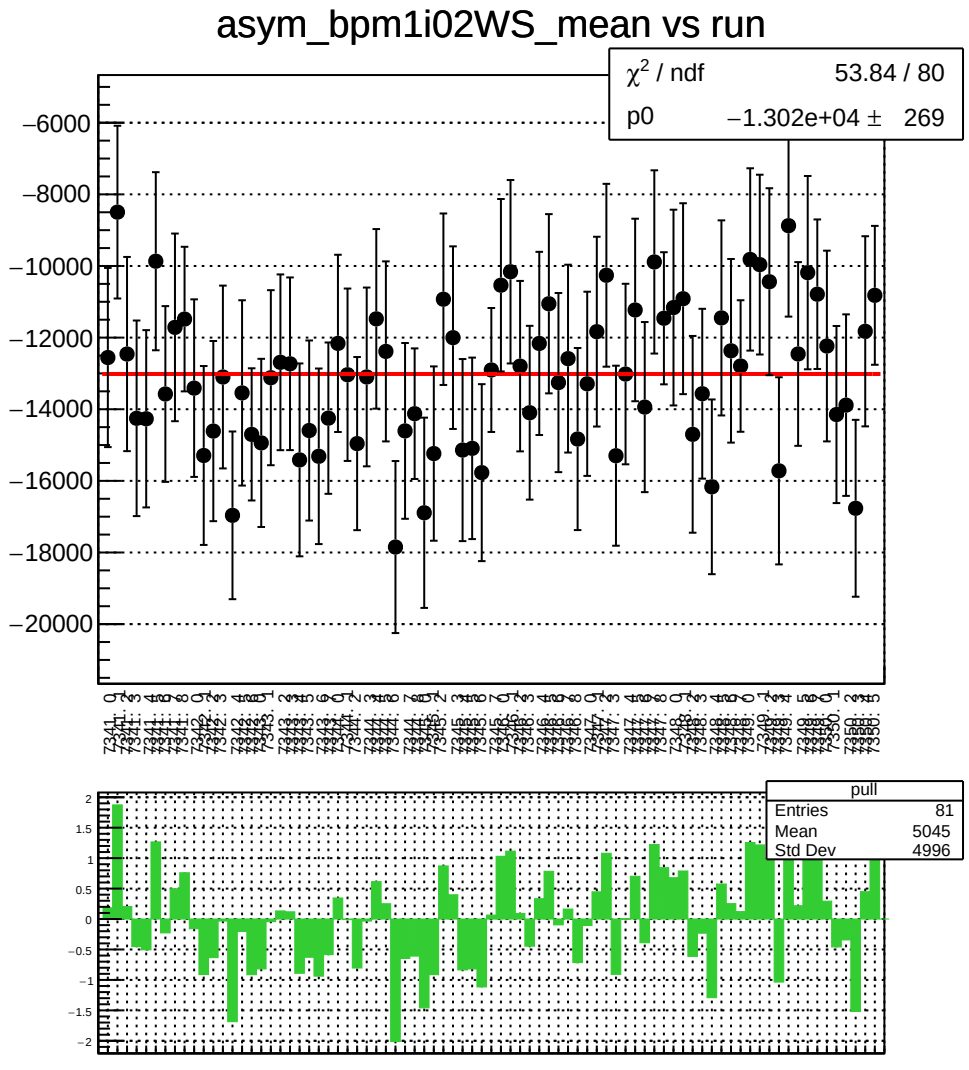

pull1D
Entries 81
Mean −0.01029
Std Dev 0.6528
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

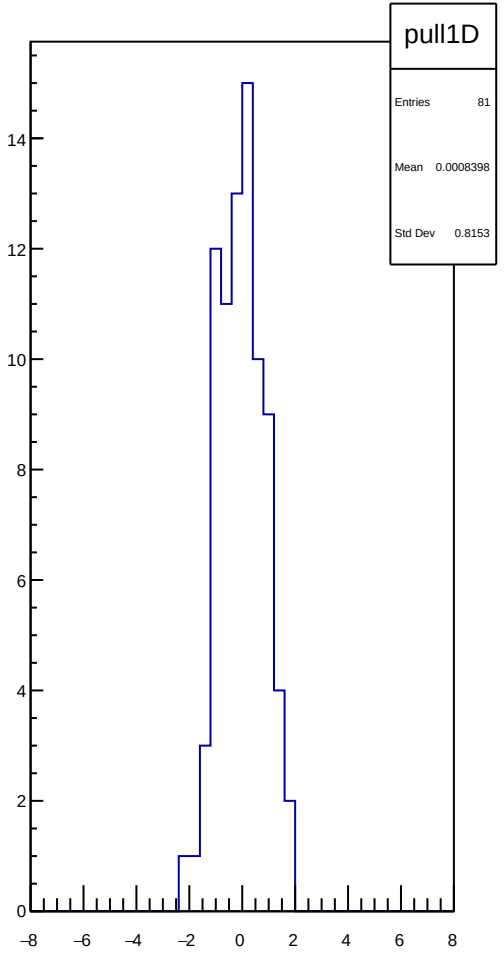

asym_bpm0i05WS_rms vs run
χ² / ndf 2330 / 80
p0 195.8 ± 0.1563
220
210
200
190
180

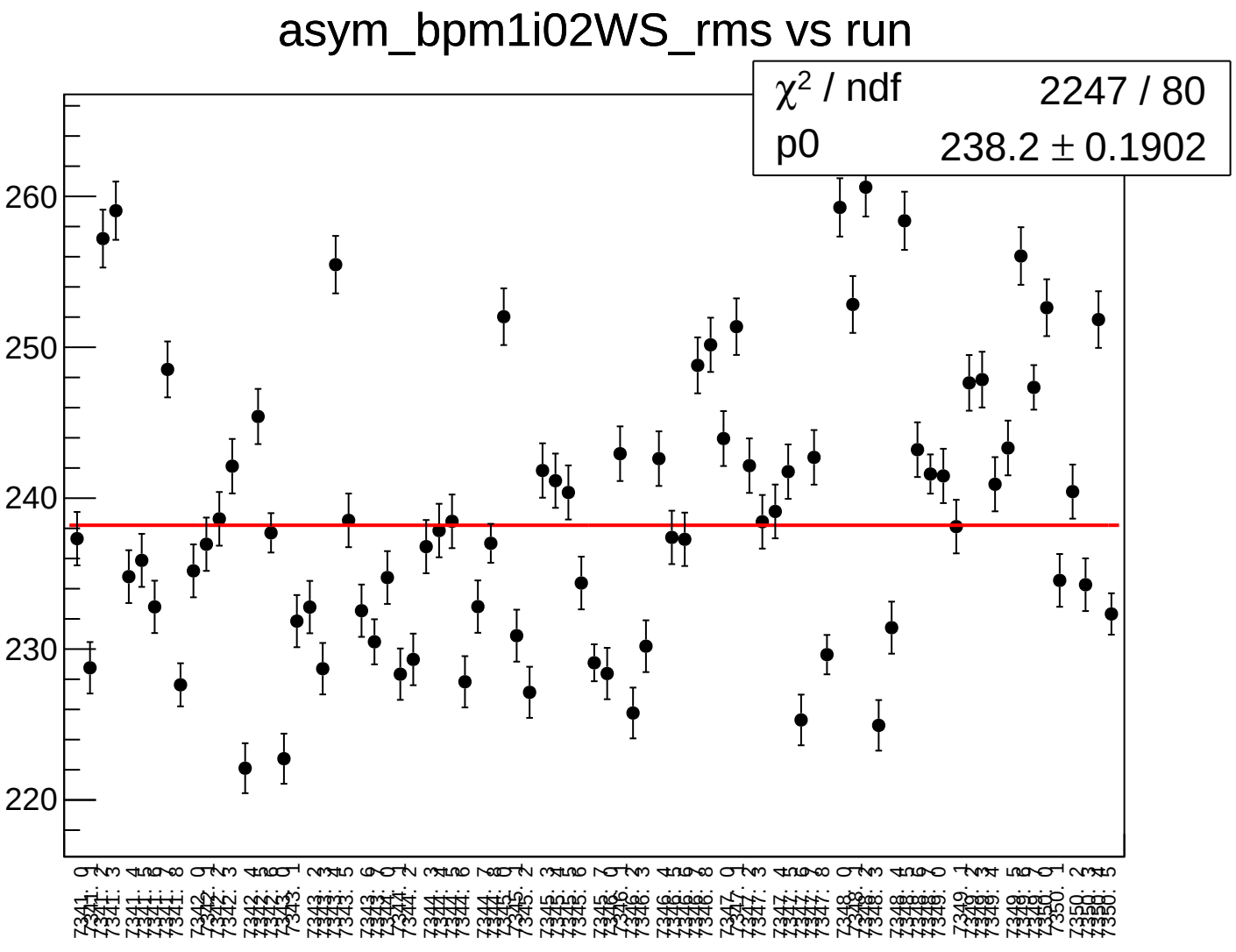

asym_bpm0i07WS_mean vs run
χ² / ndf 39.68 / 80
p0 −1639 ± 268.2
pull
Entries 81
Mean −30.05
Std Dev 73.28

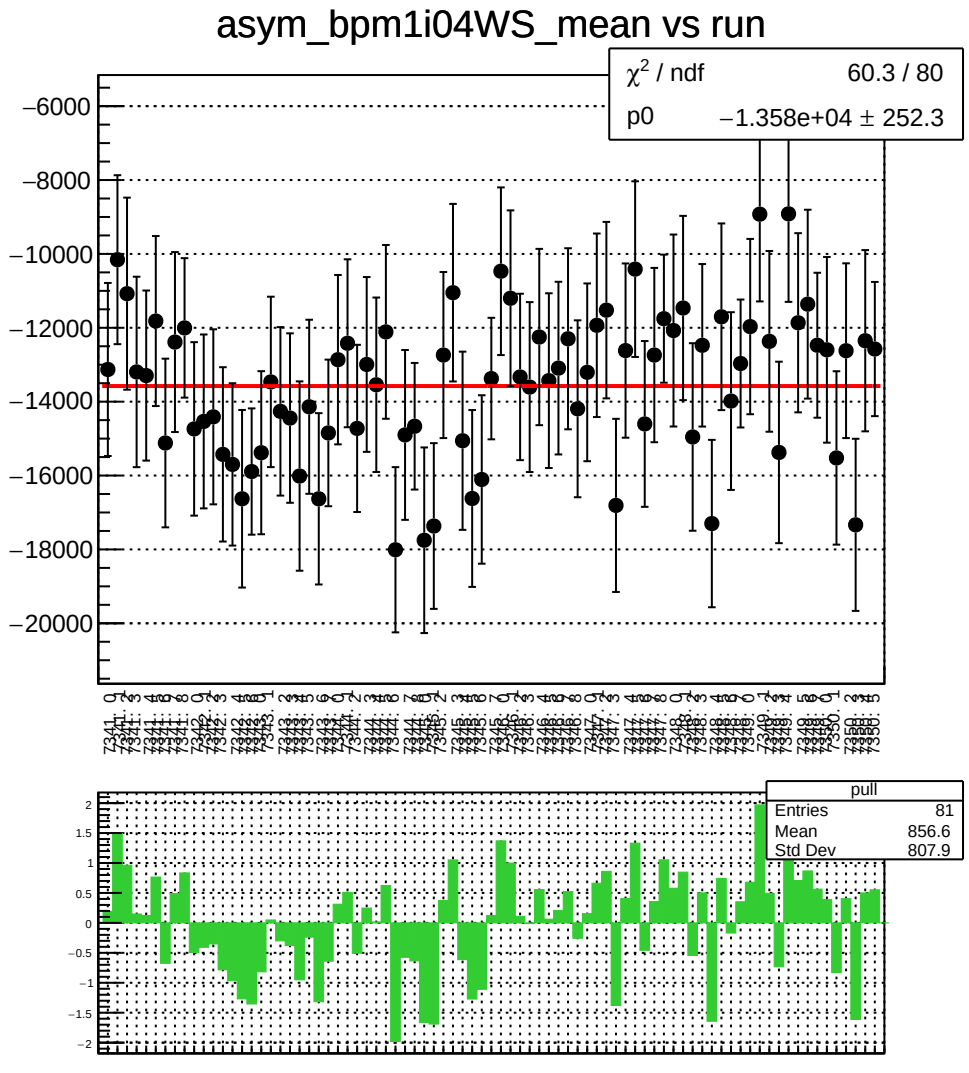

pull1D
Entries 81
Mean −0.01419
Std Dev 0.6997

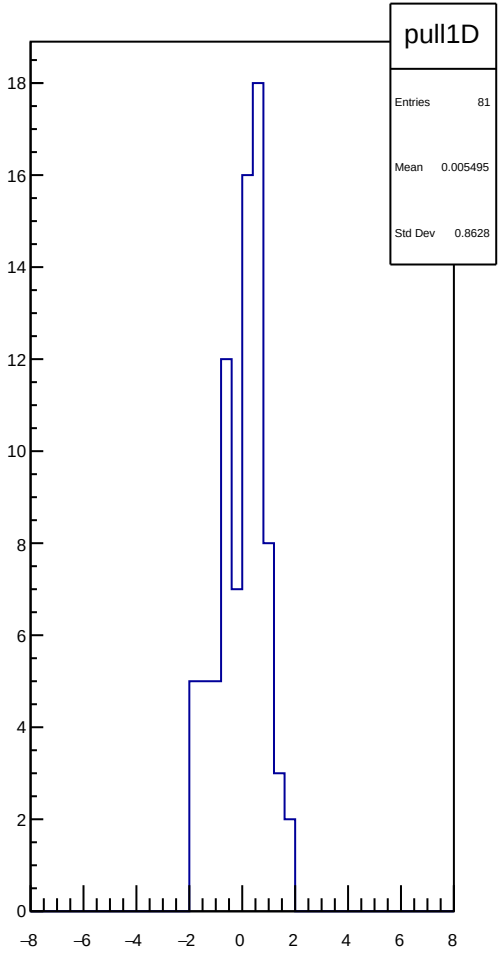

asym_bpm0i07WS_rms vs run
χ² / ndf 2693 / 80
p0 237.5 ± 0.1896
270
260
250
240
230
220

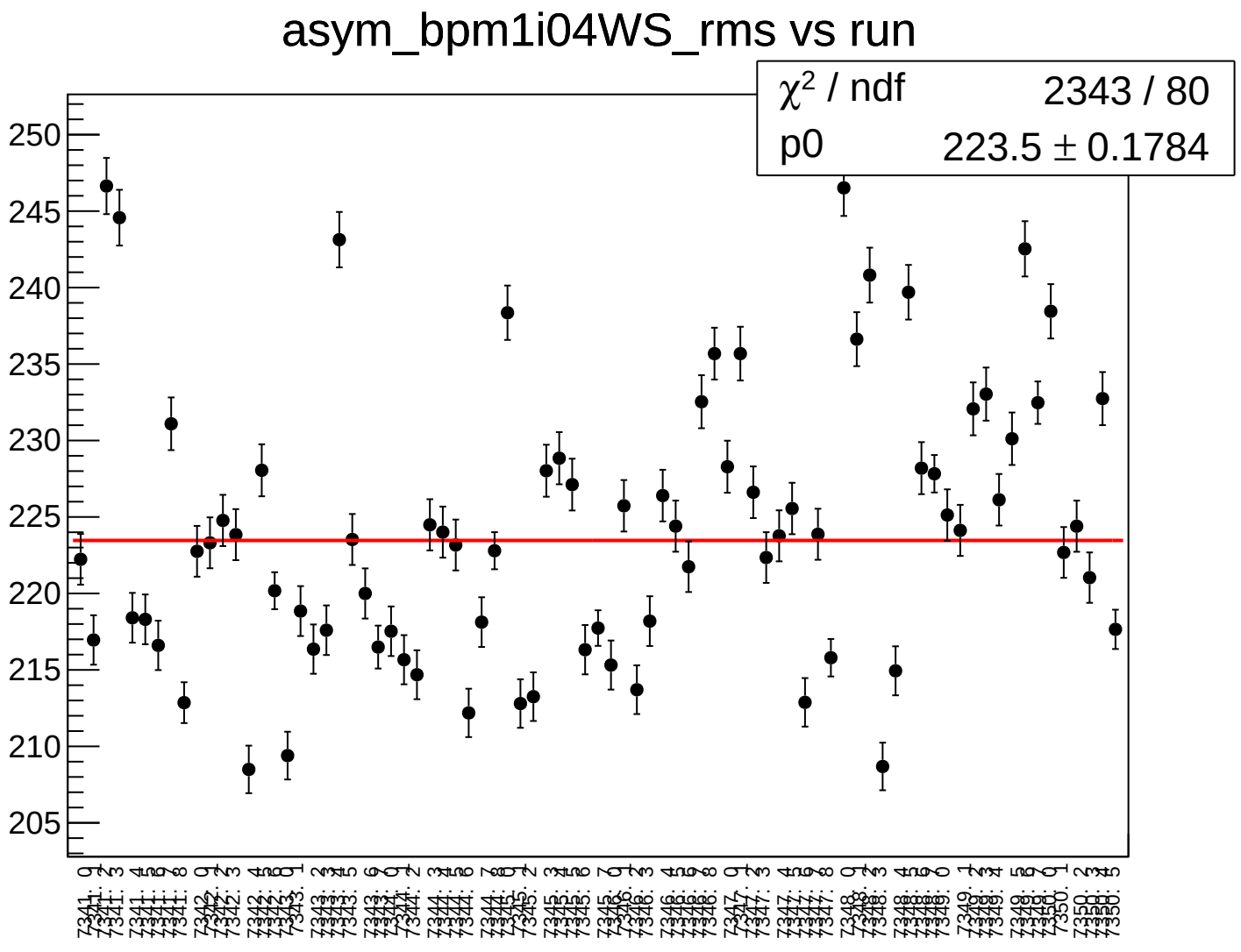

asym_bpm1i02WS_mean vs run
χ² / ndf 53.84 / 80
p0 −1.302e+04 ± 269
pull
Entries 81
Mean 5045
Std Dev 4996

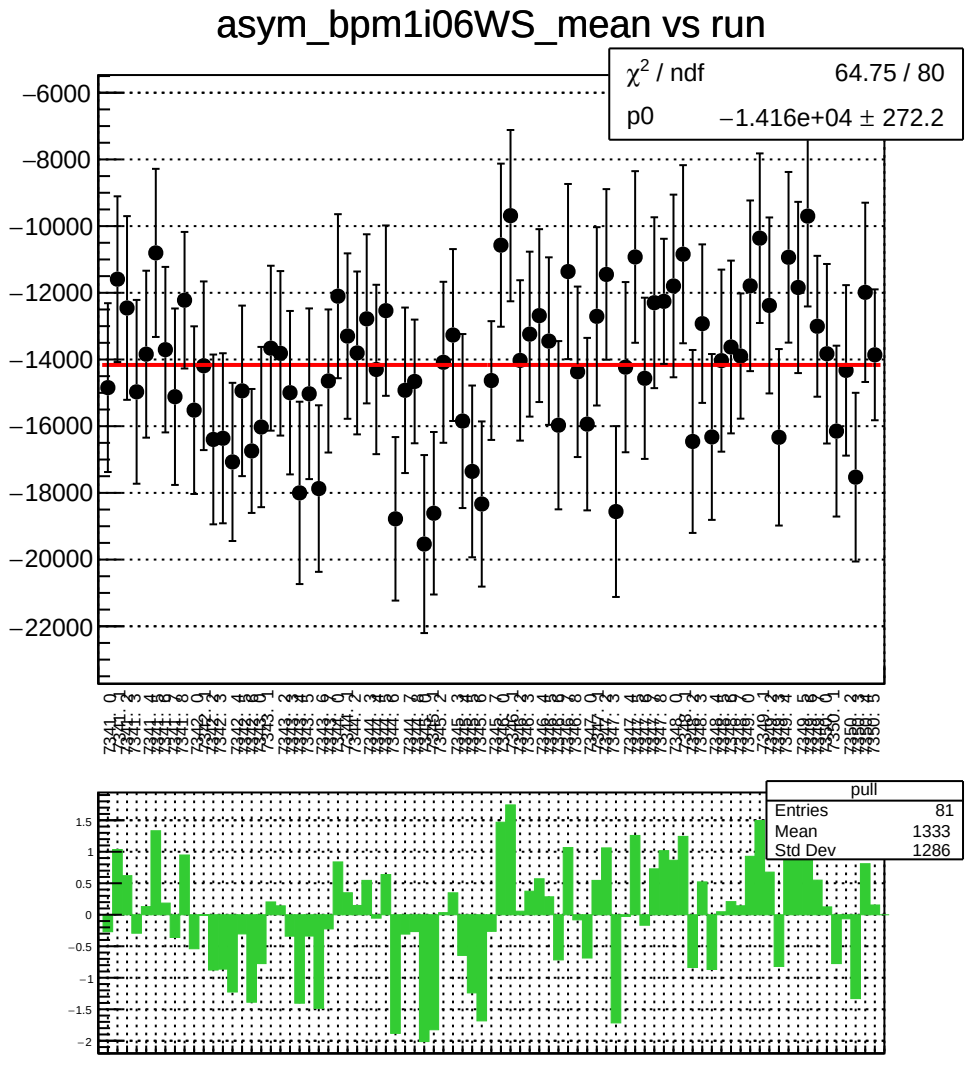

pull1D
Entries 81
Mean 0.0008398
Std Dev 0.8153

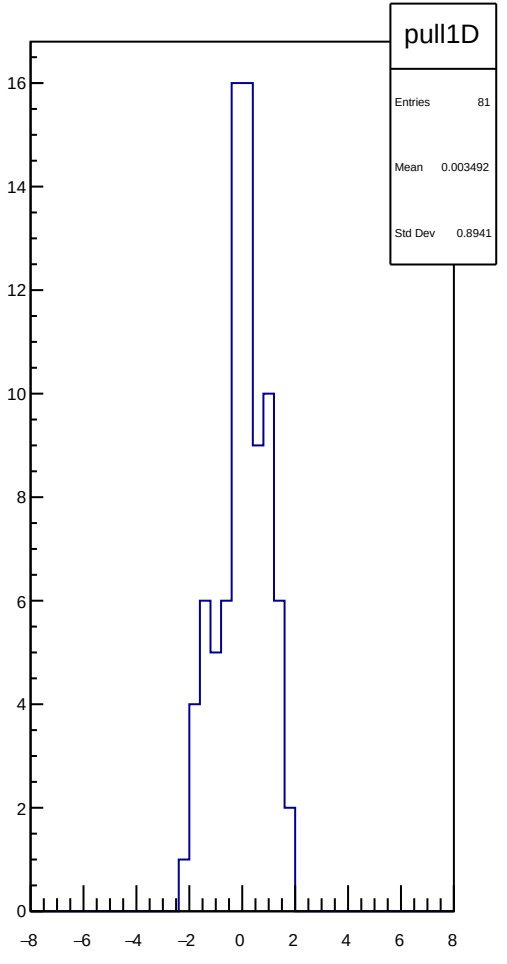

asym_bpm1i02WS_rms vs run
χ² / ndf 2247 / 80
p0 238.2 ± 0.1902
260
250
240
230
220

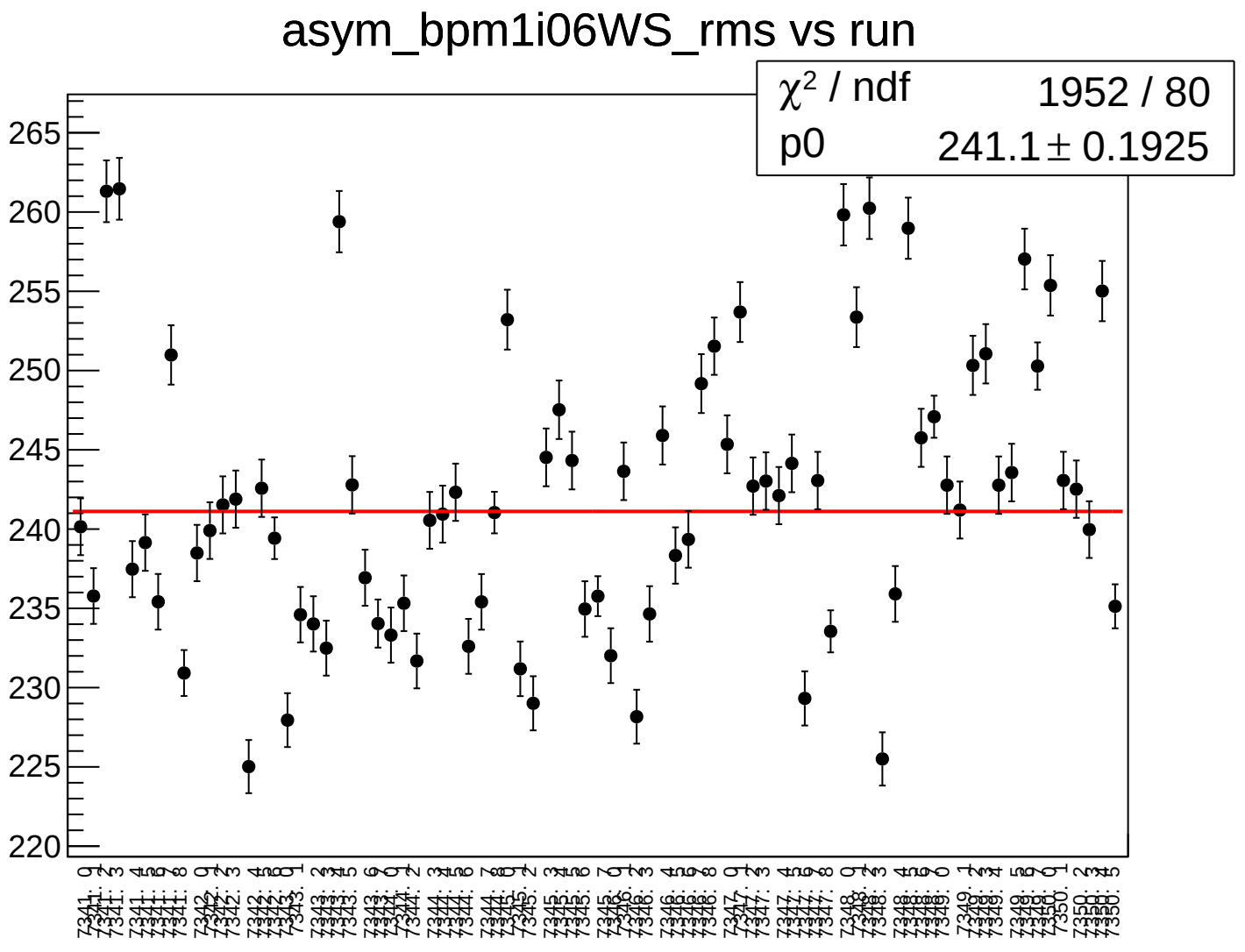

asym_bpm1i04WS_mean vs run
χ² / ndf 60.3 / 80
p0 −1.358e+04 ± 252.3
pull
Entries 81
Mean 856.6
Std Dev 807.9

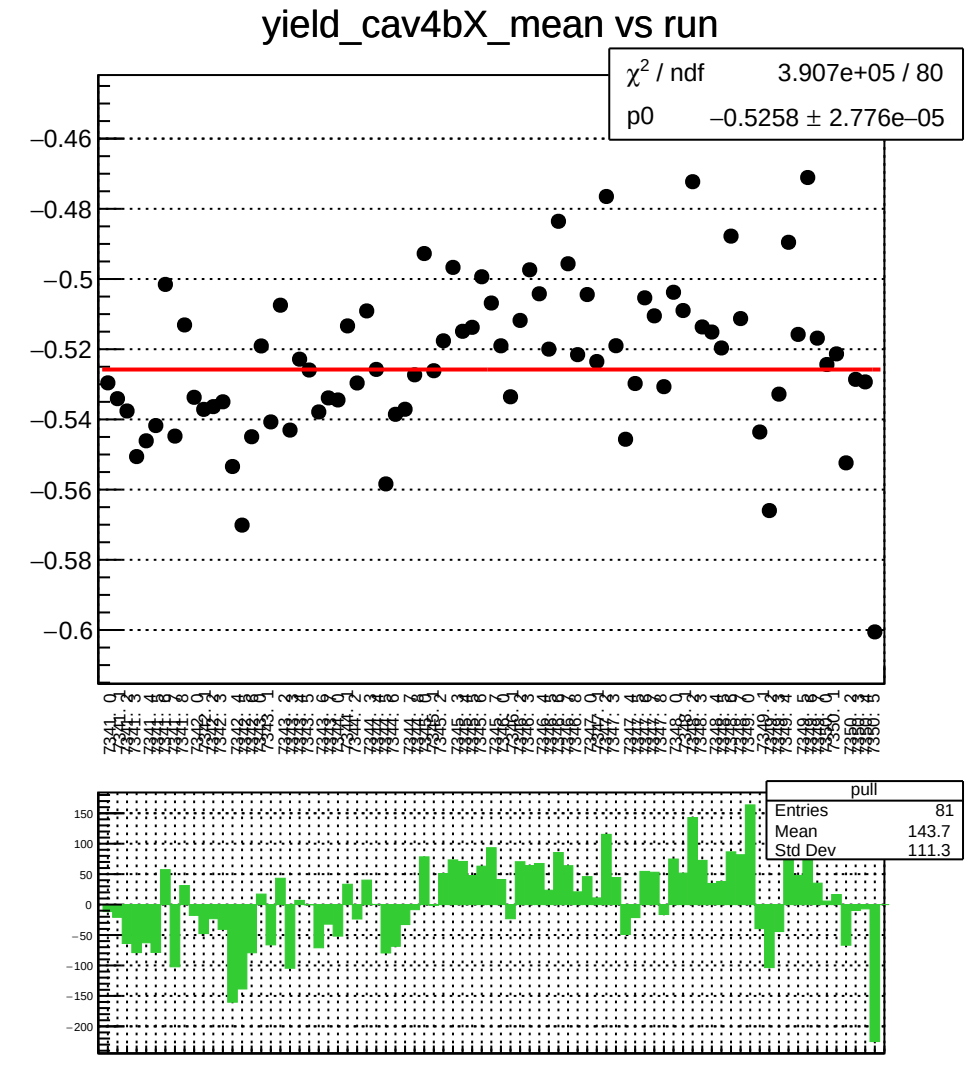

pull1D
Entries 81
Mean 0.005495
Std Dev 0.8628

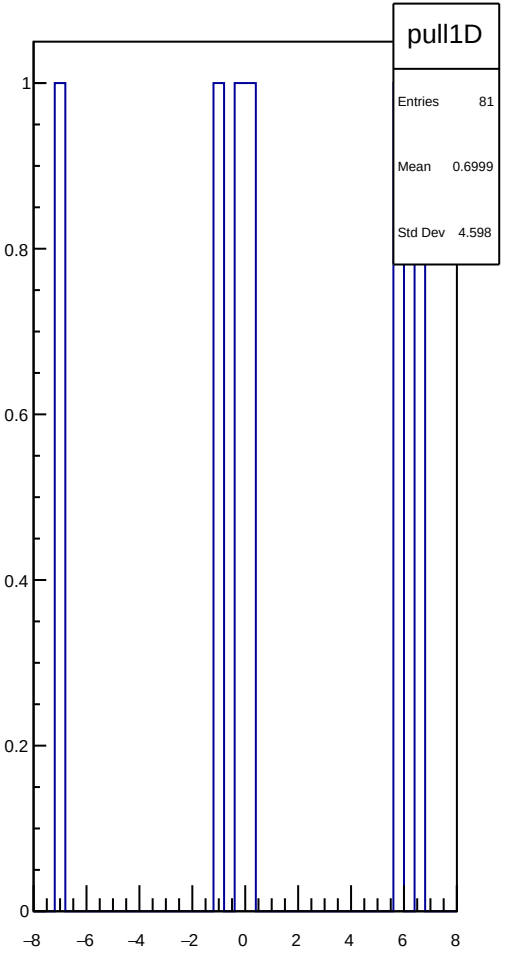

asym_bpm1i04WS_rms vs run
χ² / ndf 2343 / 80
p0 223.5 ± 0.1784
250
245
240
235
230
225
220
215
210
205

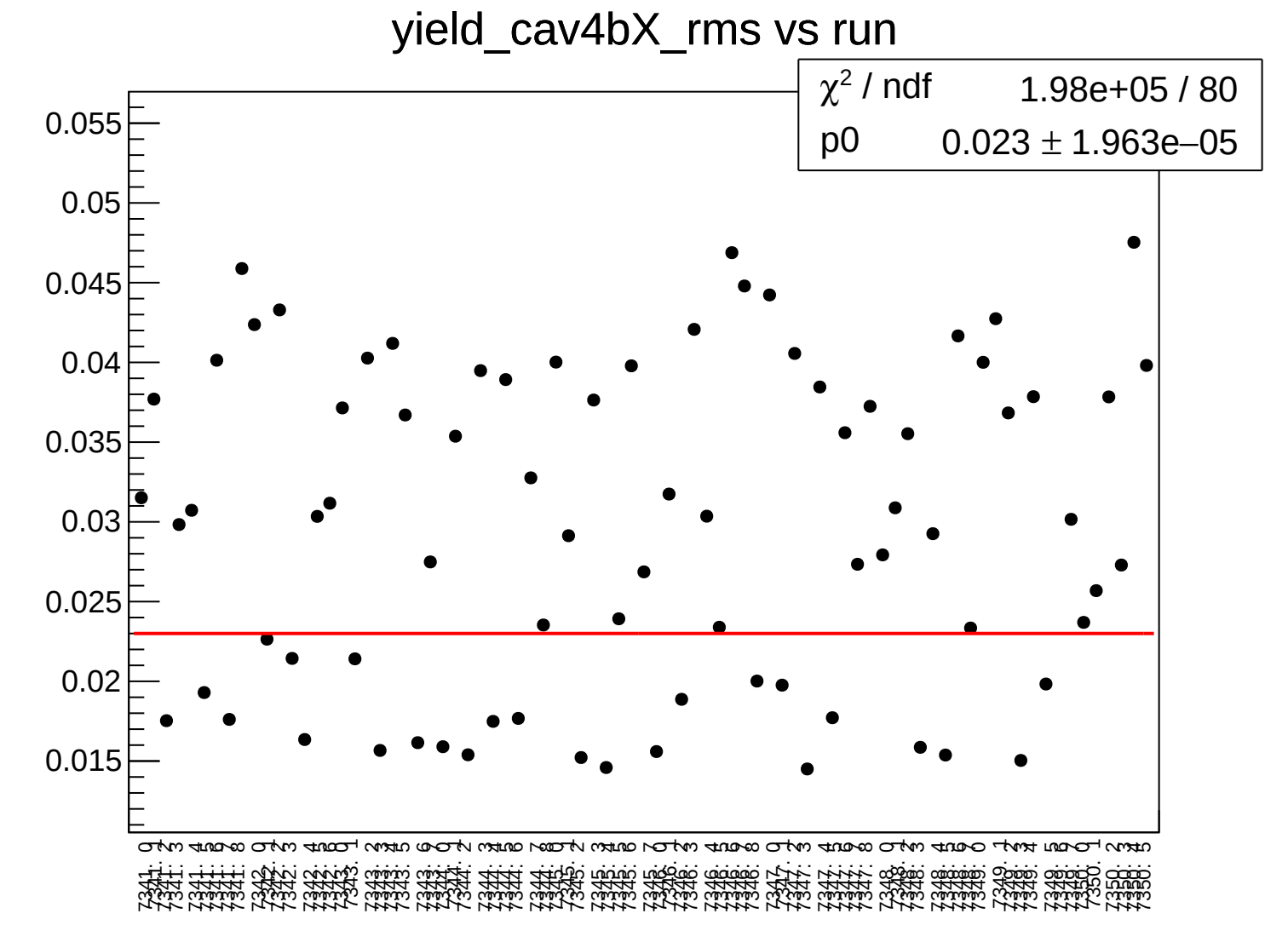

asym_bpm1i06WS_mean vs run
χ² / ndf 64.75 / 80
p0 −1.416e+04 ± 272.2
pull
Entries 81
Mean 1333
Std Dev 1286

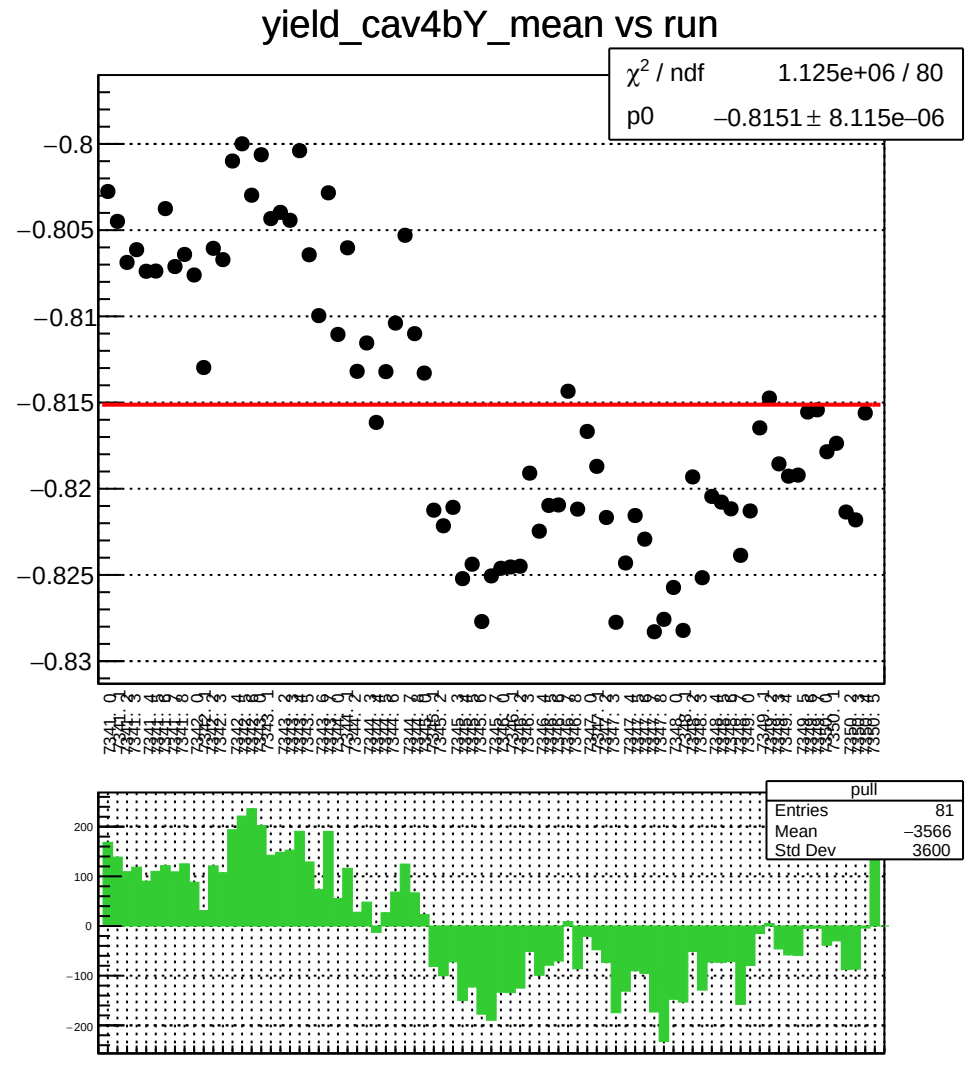

pull1D
Entries 81
Mean 0.003492
Std Dev 0.8941

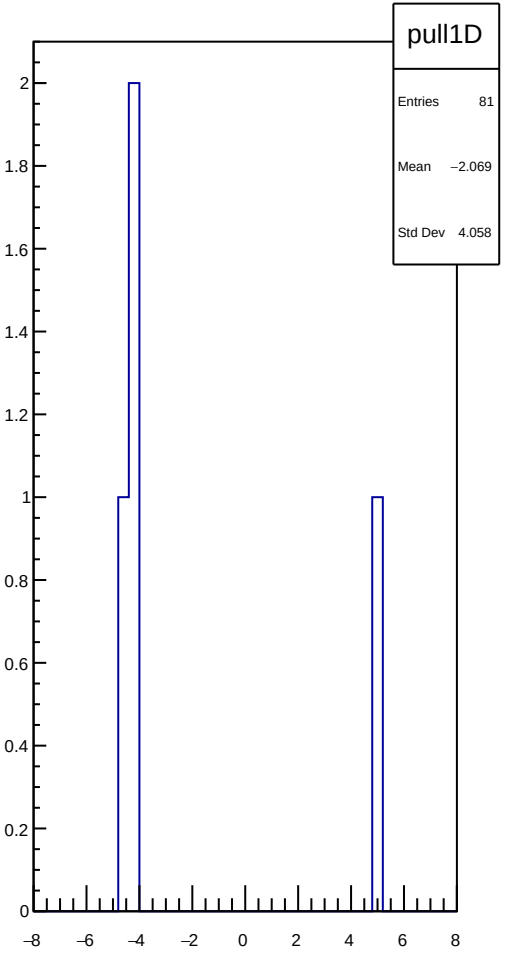

asym_bpm1i06WS_rms vs run
χ² / ndf 1952 / 80
p0 241.1 ± 0.1925
265
260
255
250
245
240
235
230
225
220

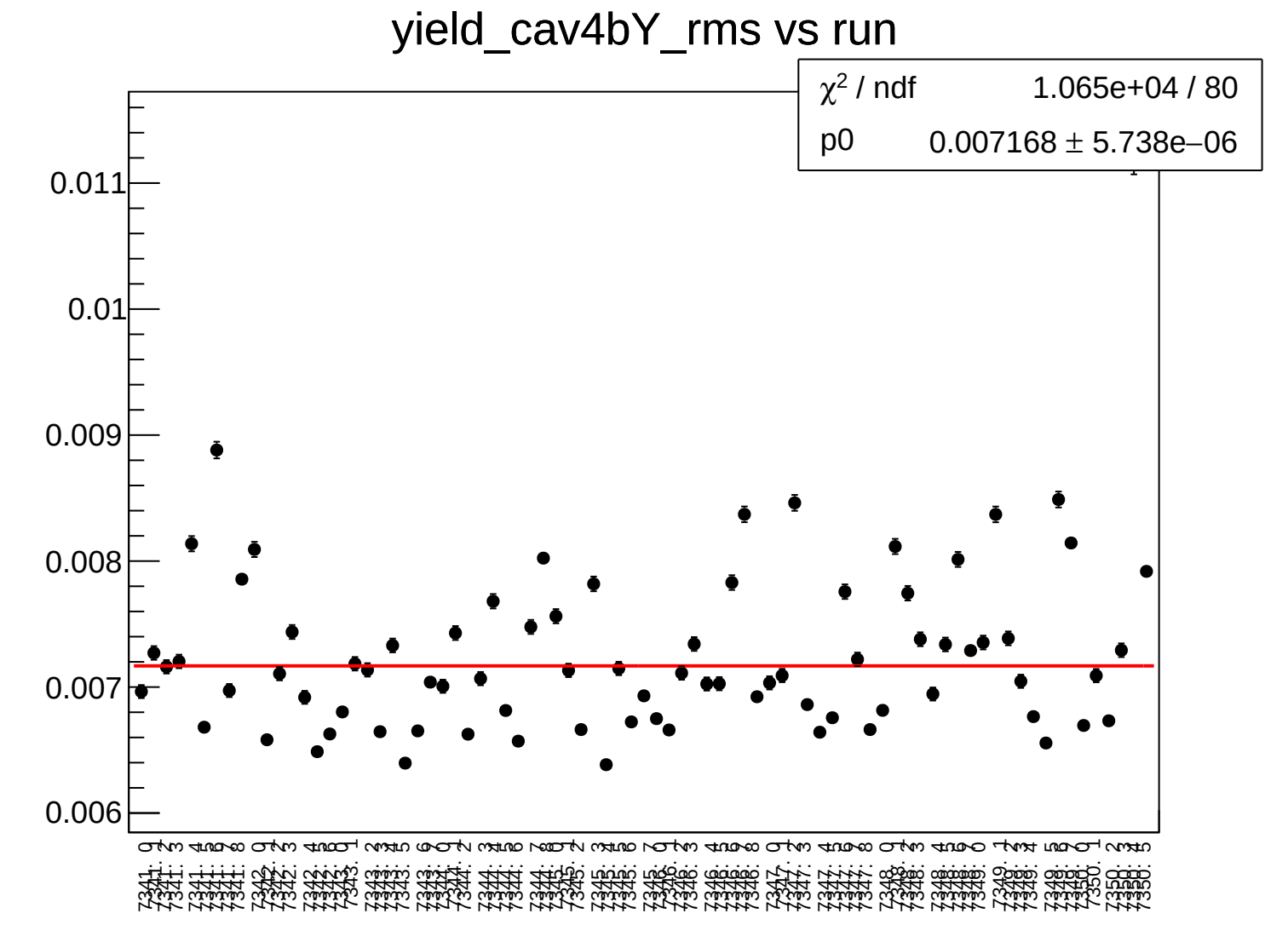

yield_cav4bX_mean vs run
χ² / ndf 3.907e+05 / 80
p0 −0.5258 ± 2.776e−05
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
−0.58
−0.6
pull
Entries 81
Mean 143.7
Std Dev 111.3
150
100
50
0
−50
−100
−150
−200

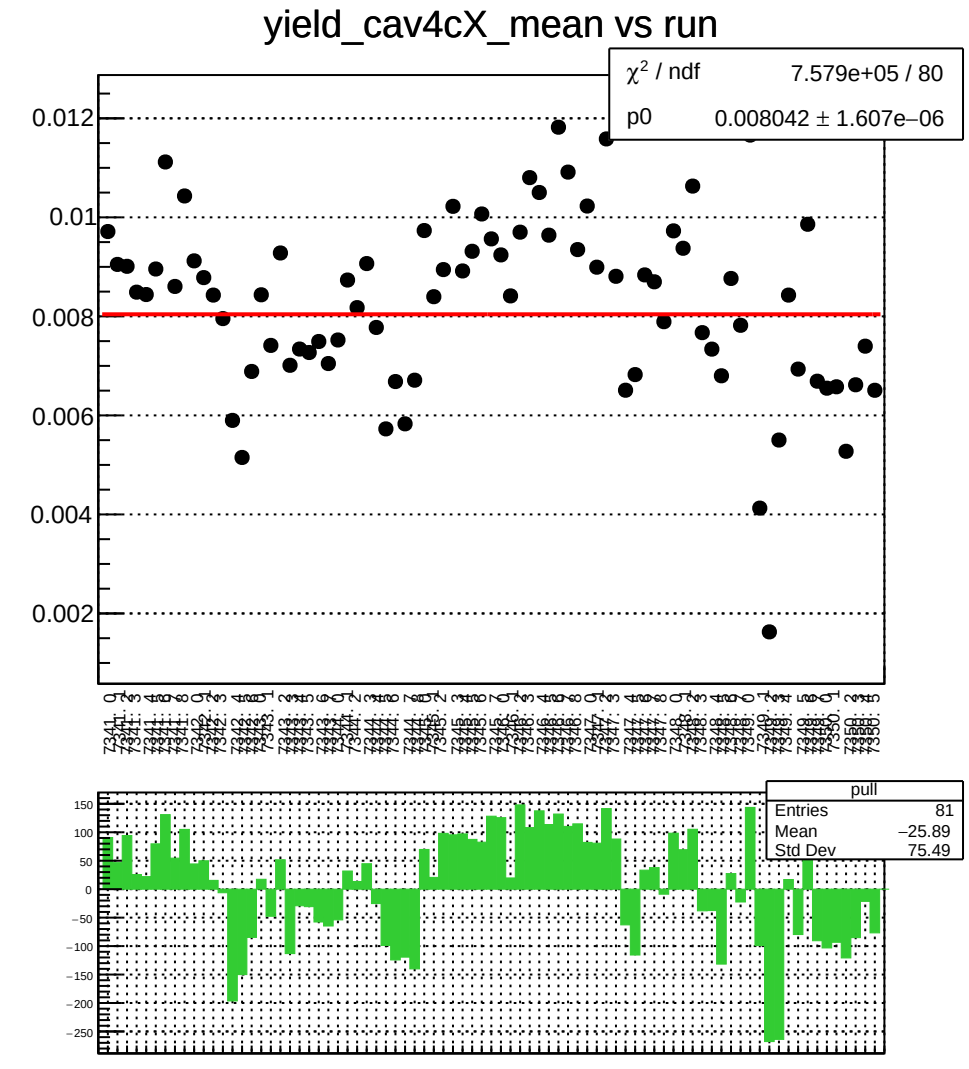

pull1D
Entries 81
Mean 0.6999
Std Dev 4.598
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

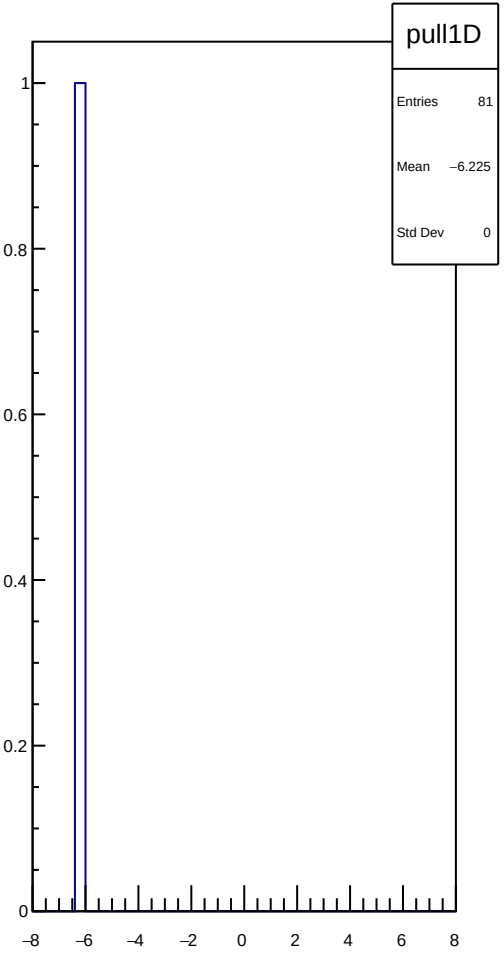

yield_cav4bX_rms vs run
χ^2 / ndf 1.98e+05 / 80
p0 0.023 ± 1.963e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

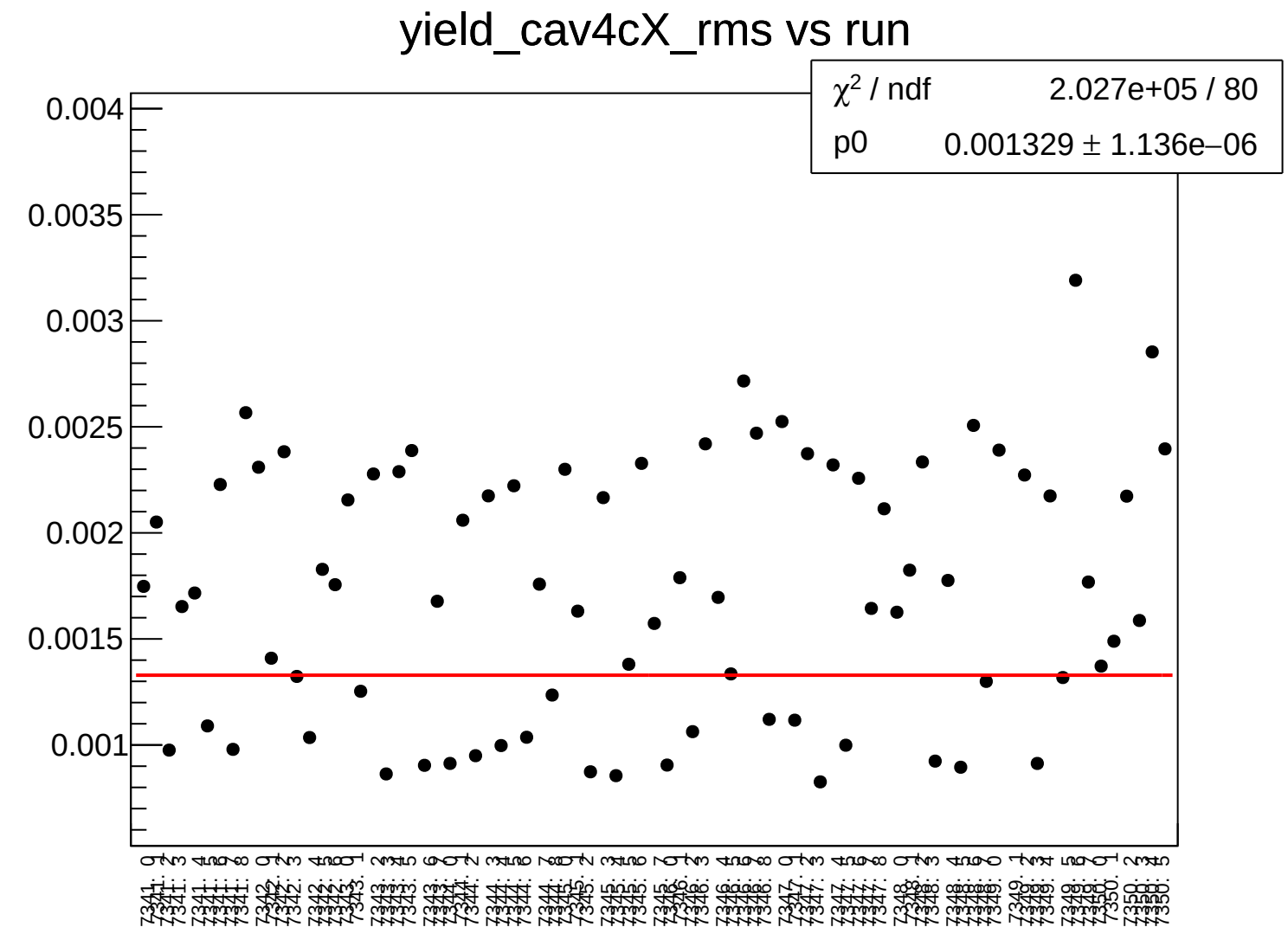

yield_cav4bY_mean vs run
χ² / ndf 1.125e+06 / 80
p0 −0.8151 ± 8.115e−06
−0.8
−0.805
−0.81
−0.815
−0.82
−0.825
−0.83
pull
Entries 81
Mean −3566
Std Dev 3600
200
100
0
−100
−200

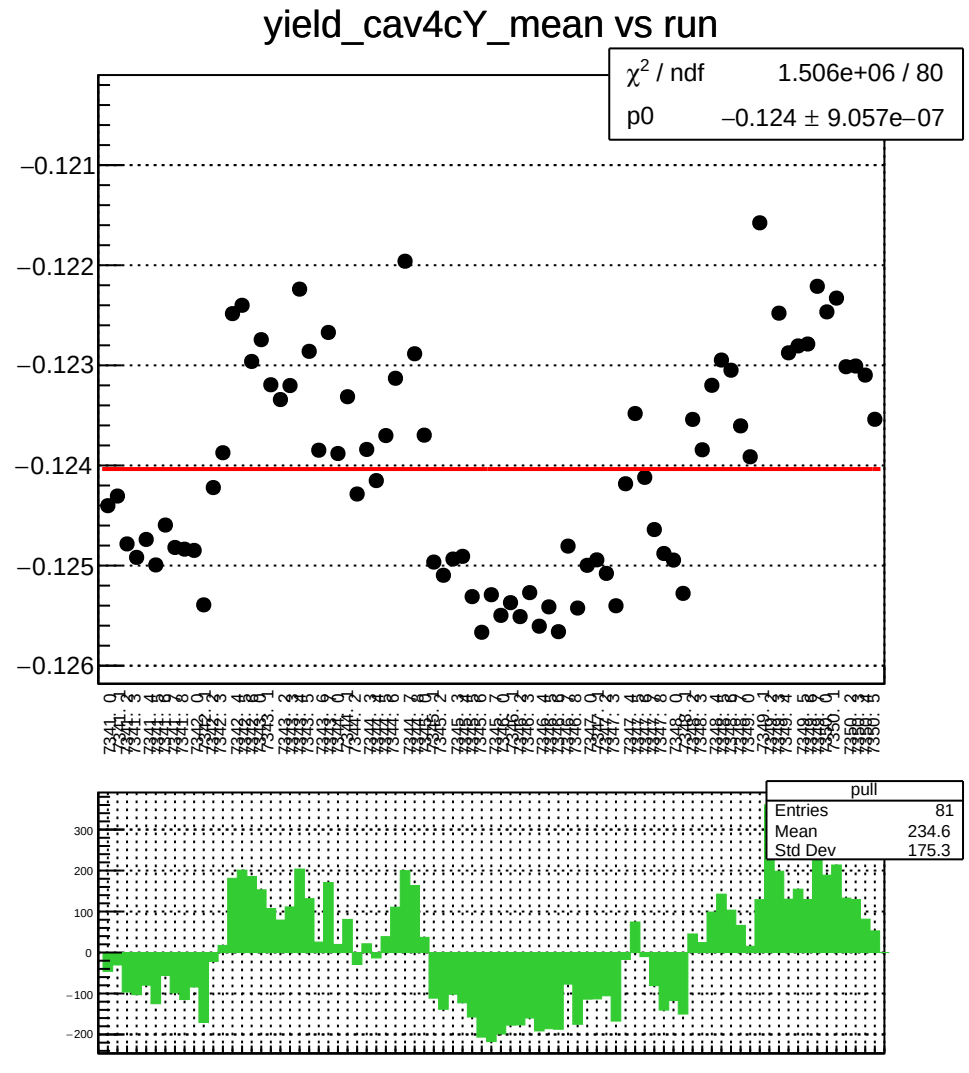

pull1D
Entries 81
Mean −2.069
Std Dev 4.058
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

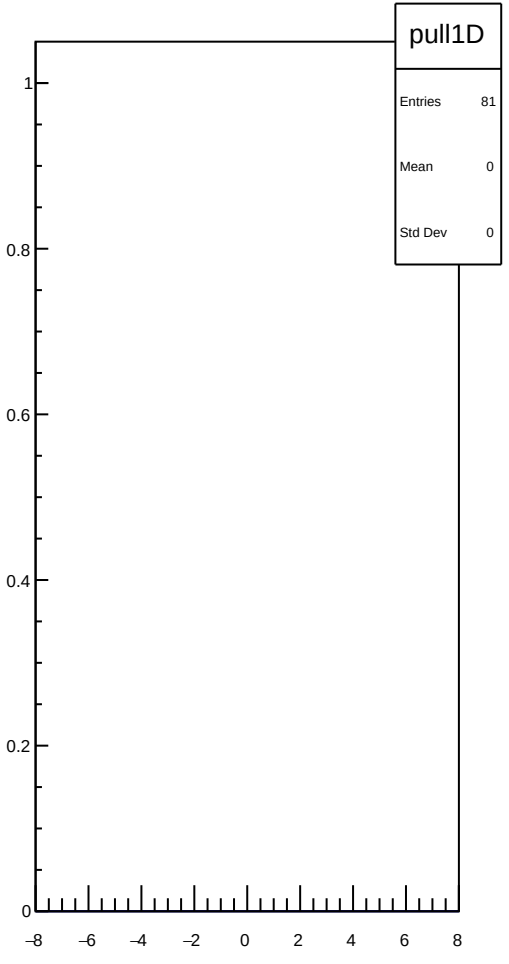

yield_cav4bY_rms vs run
χ² / ndf 1.065e+04 / 80
p0 0.007168 ± 5.738e−06
0.011
0.01
0.009
0.008
0.007
0.006

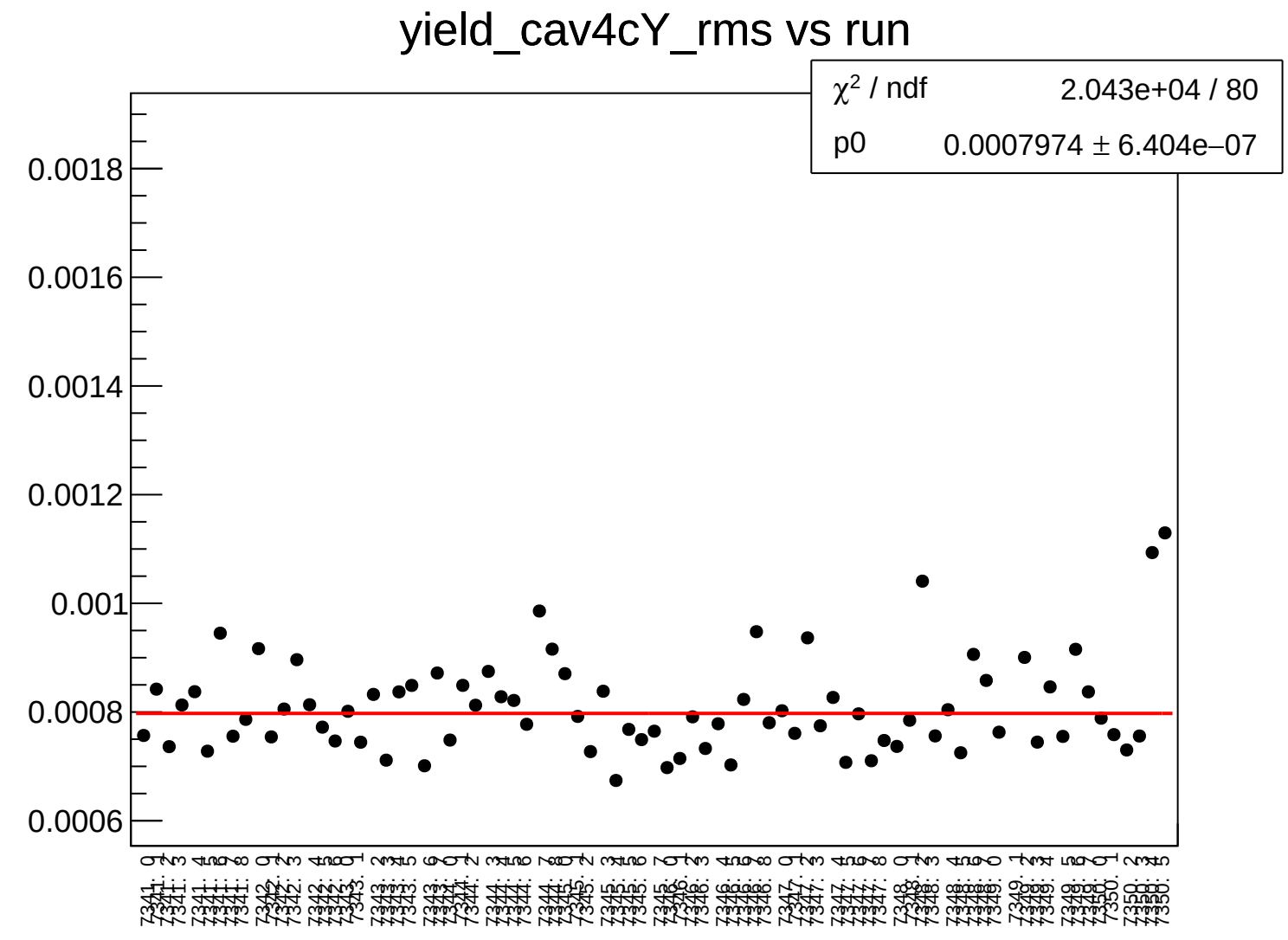

yield_cav4cX_mean vs run
χ² / ndf 7.579e+05 / 80
p0 0.008042 ± 1.607e−06
0.012
0.01
0.008
0.006
0.004
0.002
pull
Entries 81
Mean −25.89
Std Dev 75.49
150
100
50
0
−50
−100
−150
−200
−250

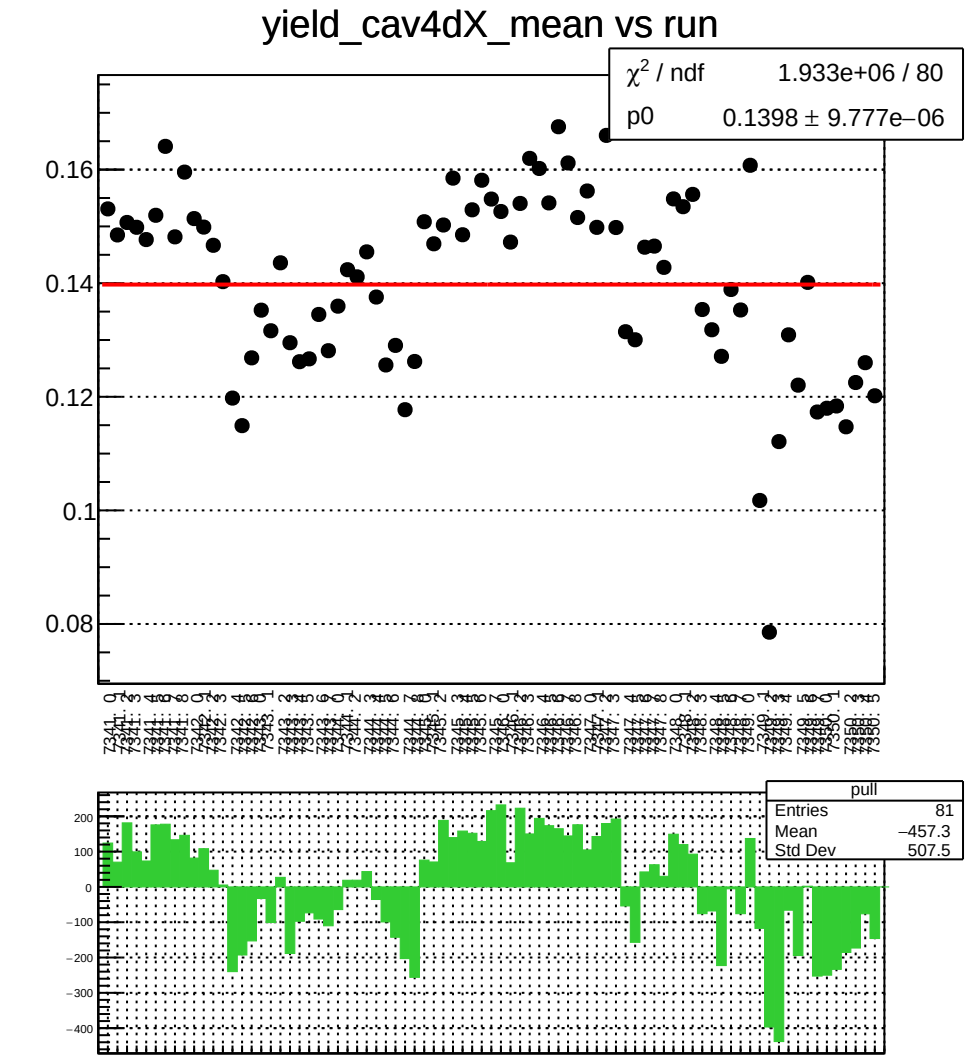

pull1D
Entries 81
Mean −6.225
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

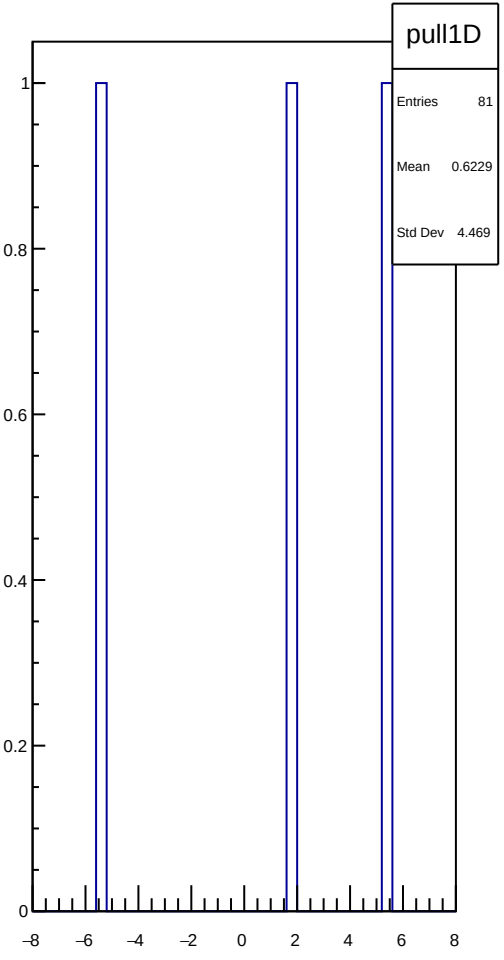

yield_cav4cX_rms vs run
χ² / ndf 2.027e+05 / 80
p0 0.001329 ± 1.136e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

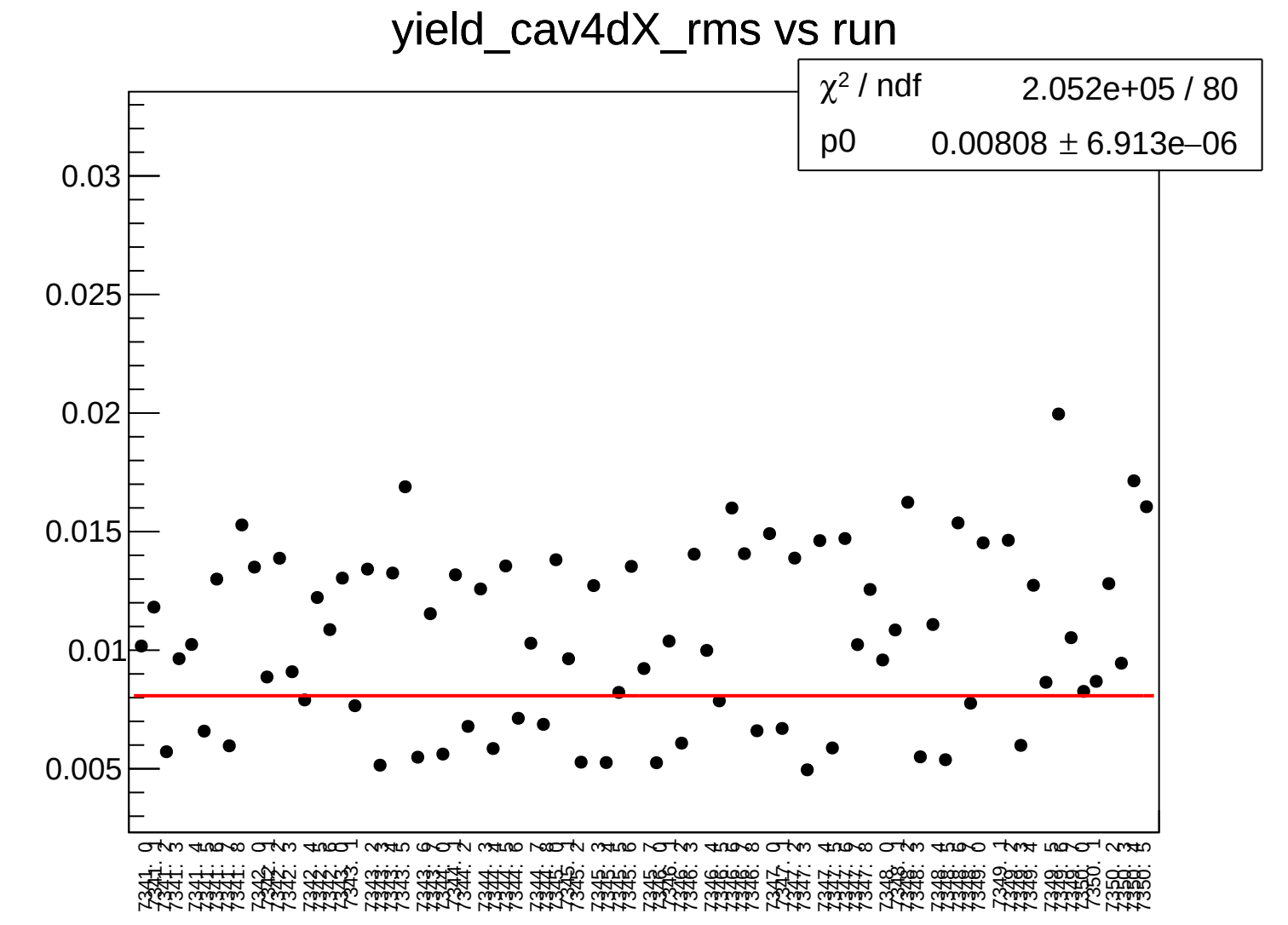

yield_cav4cY_mean vs run
χ² / ndf 1.506e+06 / 80
p0 −0.124 ± 9.057e−07
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
pull
Entries 81
Mean 234.6
Std Dev 175.3
300
200
100
0
−100
−200

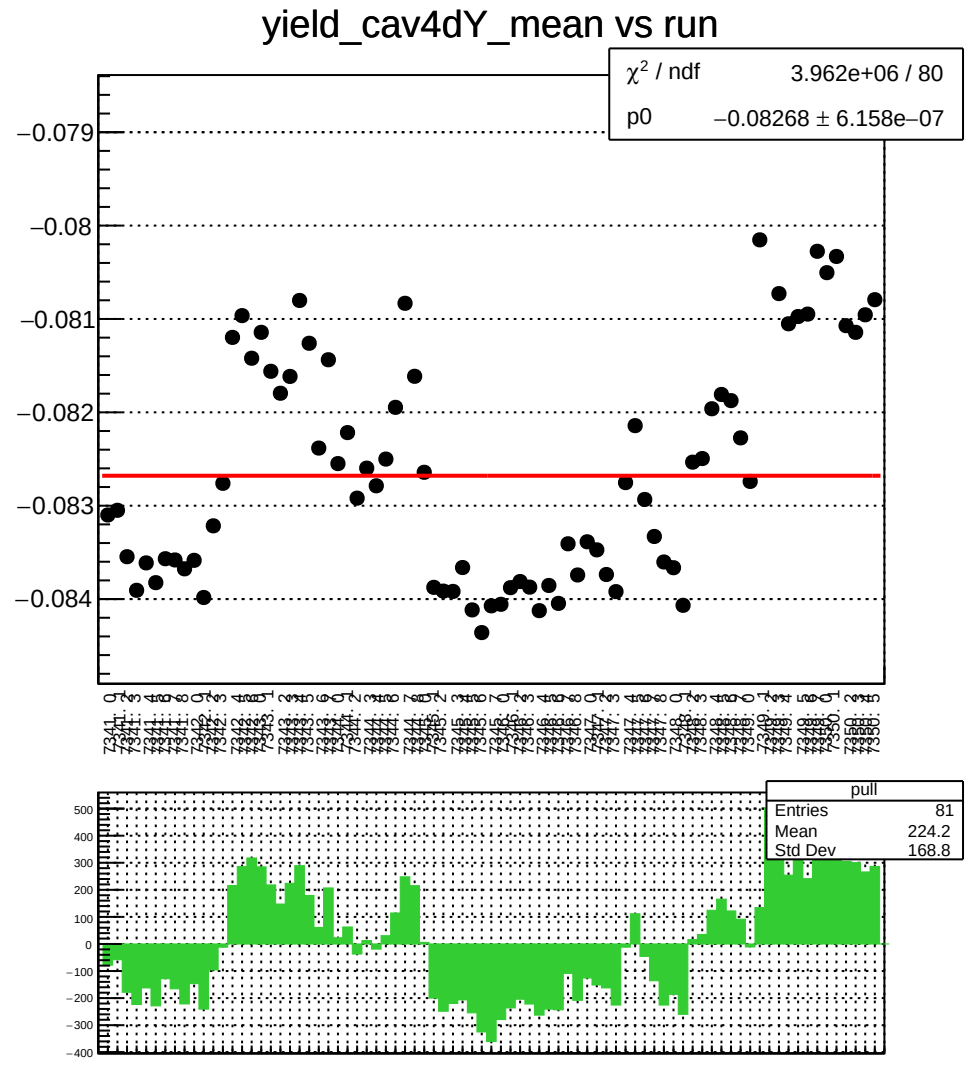

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

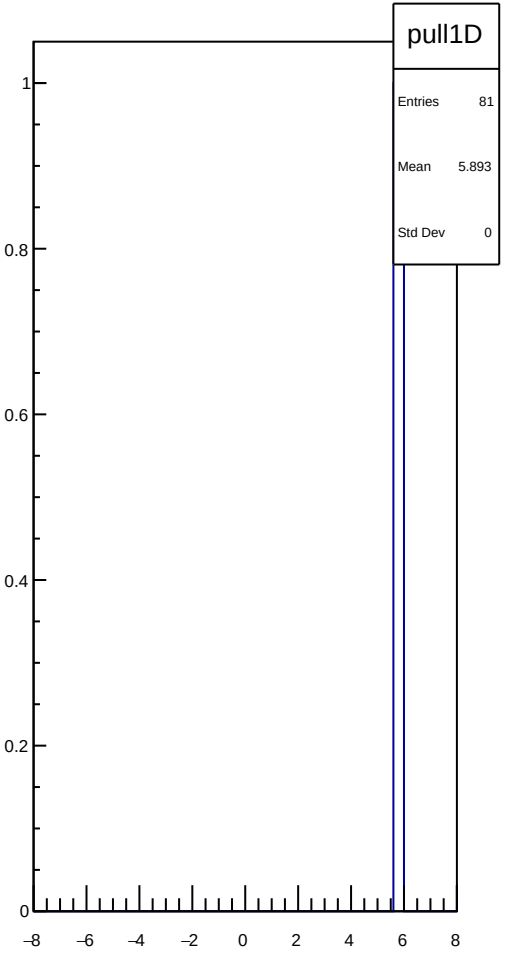

yield_cav4cY_rms vs run
χ² / ndf 2.043e+04 / 80
p0 0.0007974 ± 6.404e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

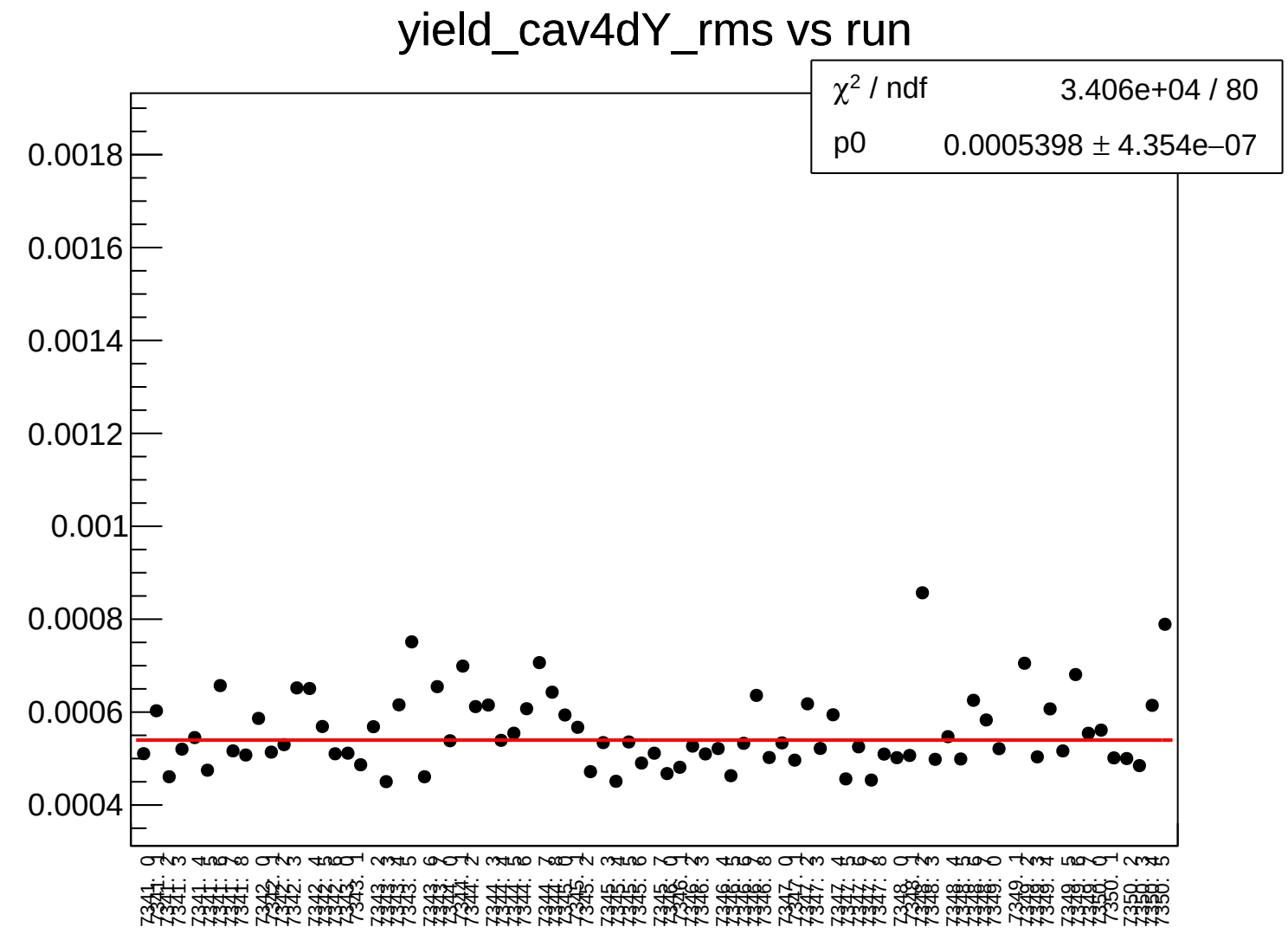

yield_cav4dX_mean vs run
χ² / ndf 1.933e+06 / 80
p0 0.1398 ± 9.777e−06
0.16
0.14
0.12
0.1
0.08
pull
Entries 81
Mean −457.3
Std Dev 507.5
200
100
0
−100
−200
−300
−400

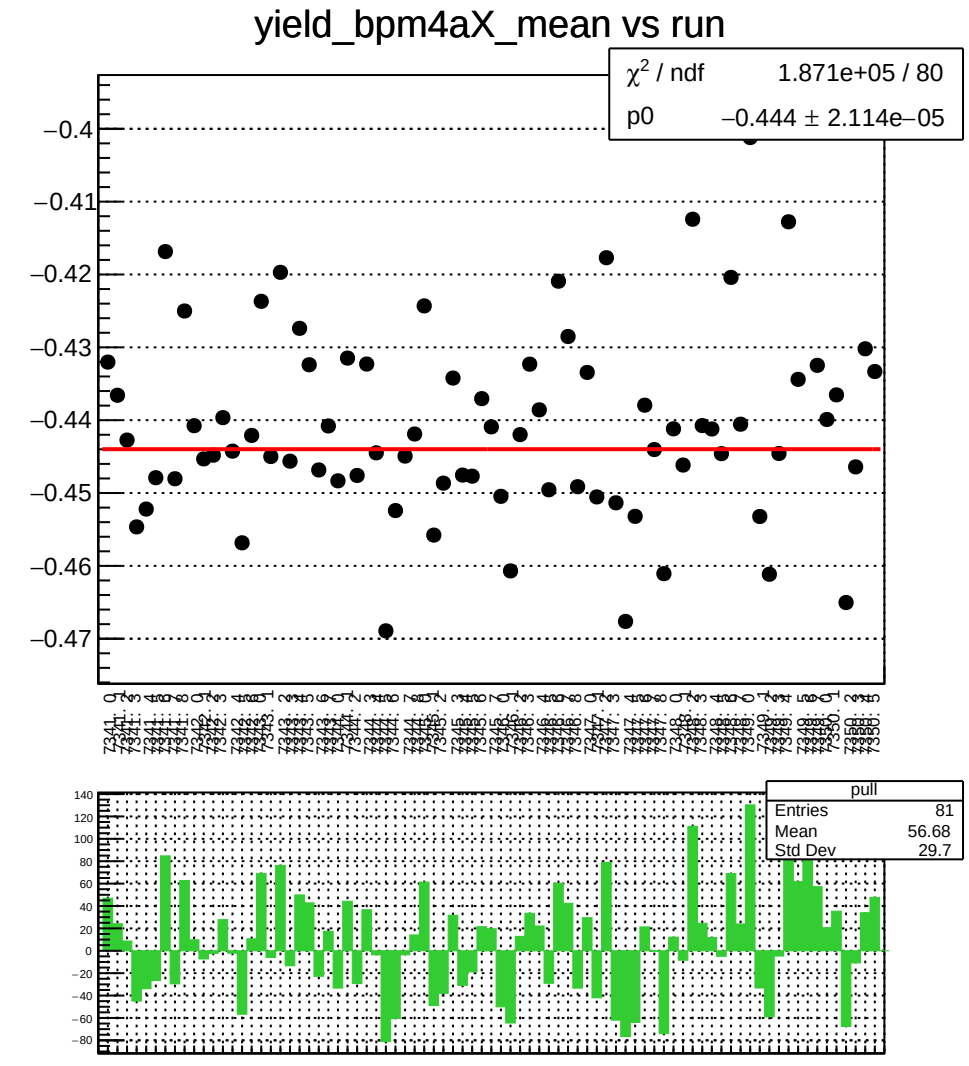

pull1D
Entries 81
Mean 0.6229
Std Dev 4.469
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

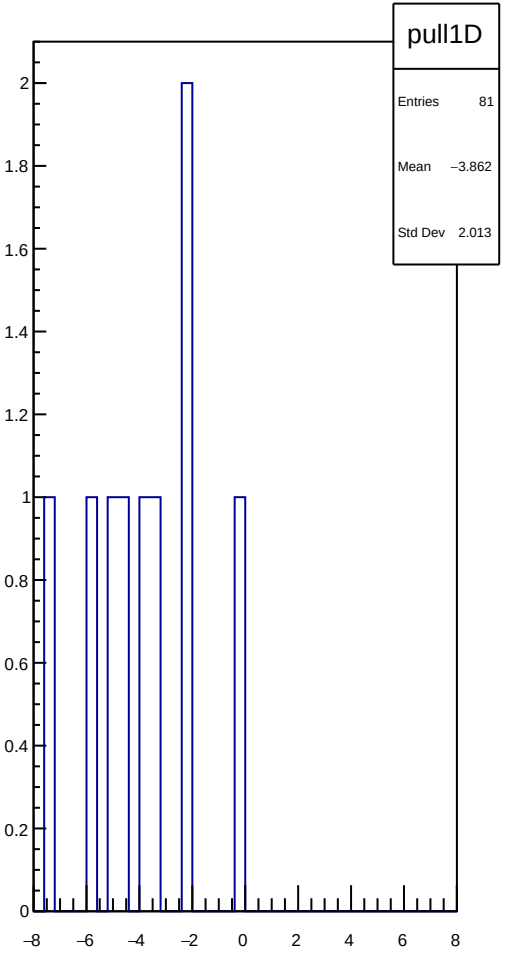

yield_cav4dX_rms vs run
χ² / ndf 2.052e+05 / 80
p0 0.00808 ± 6.913e–06
0.03
0.025
0.02
0.015
0.01
0.005

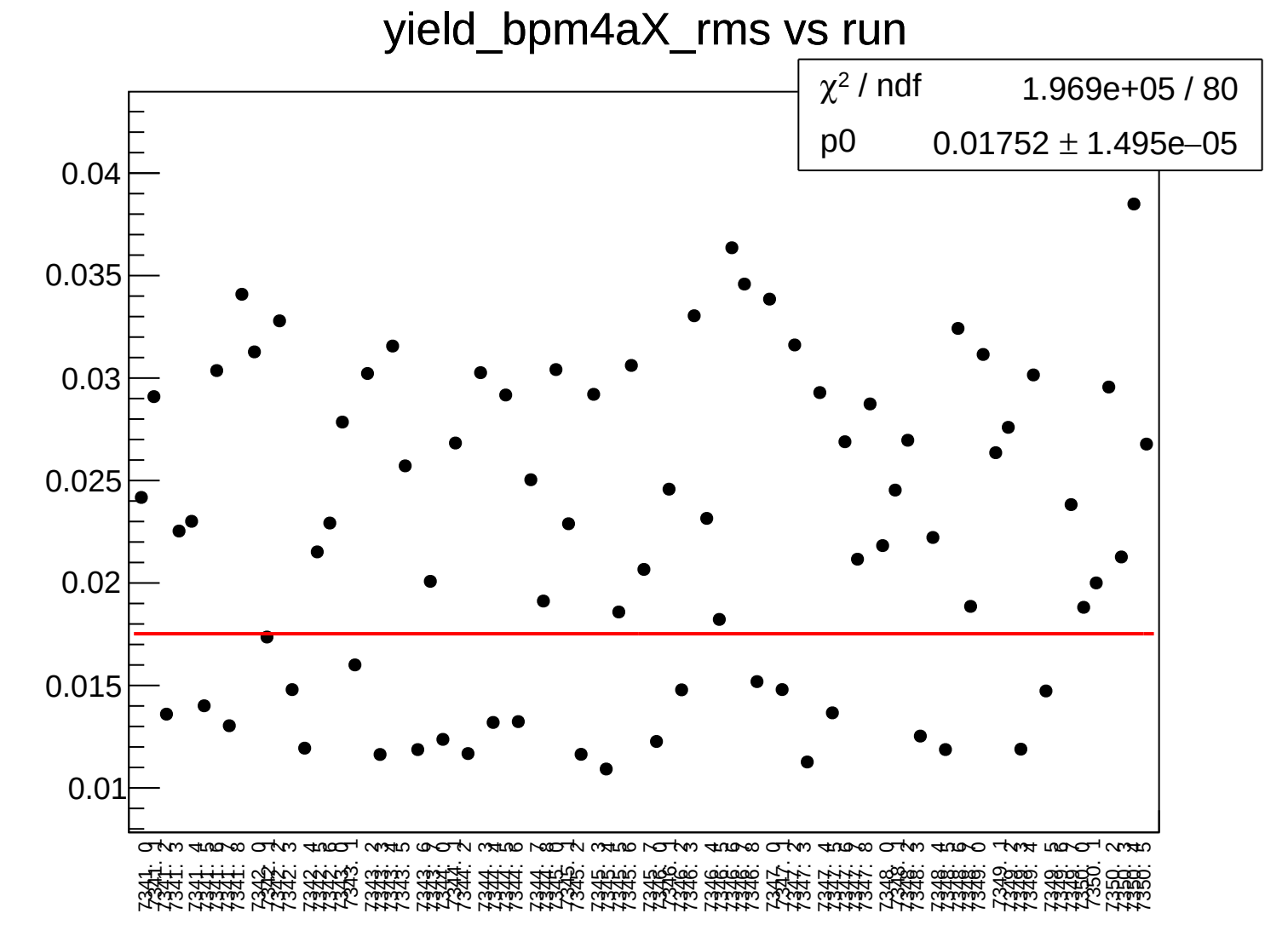

yield_cav4dY_mean vs run
χ² / ndf 3.962e+06 / 80
p0 −0.08268 ± 6.158e−07
−0.079
−0.08
−0.081
−0.082
−0.083
−0.084
pull
Entries 81
Mean 224.2
Std Dev 168.8
500
400
300
200
100
0
−100
−200
−300
−400

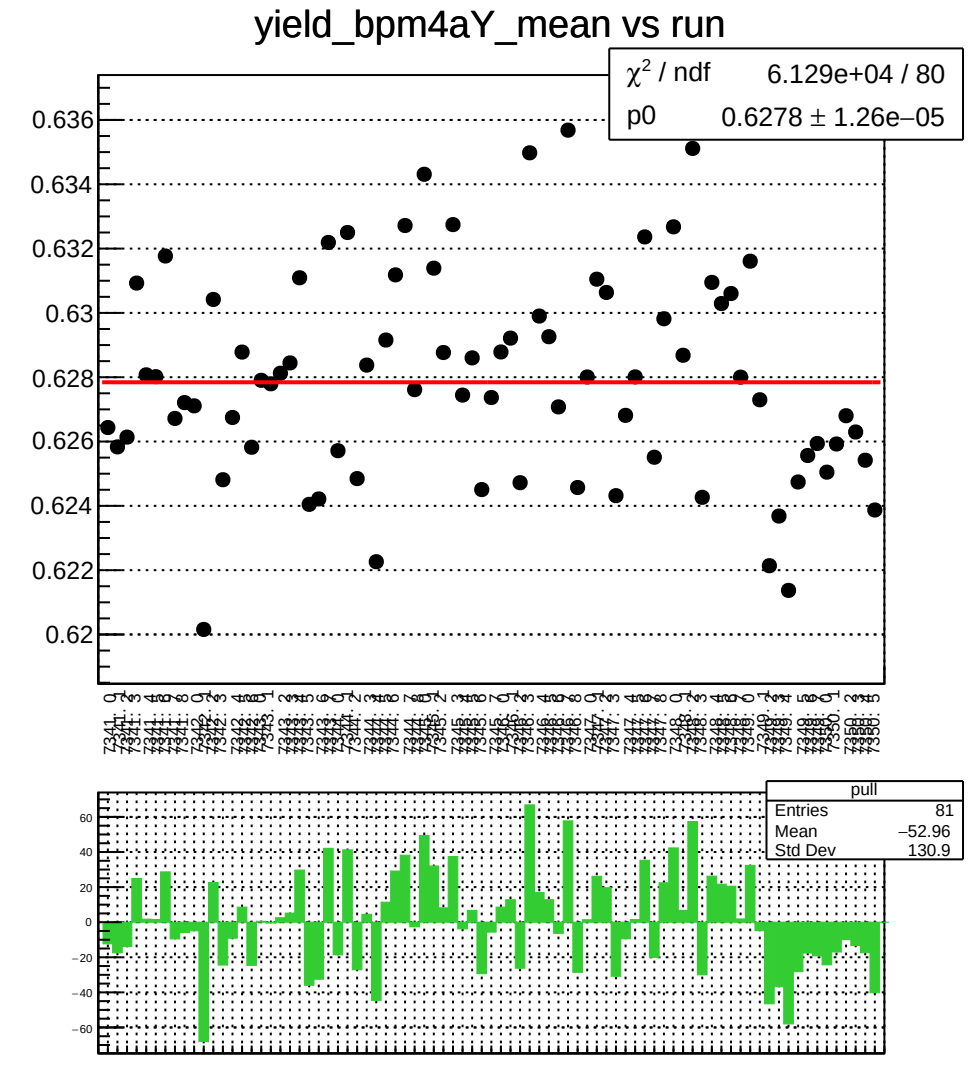

pull1D
Entries 81
Mean 5.893
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

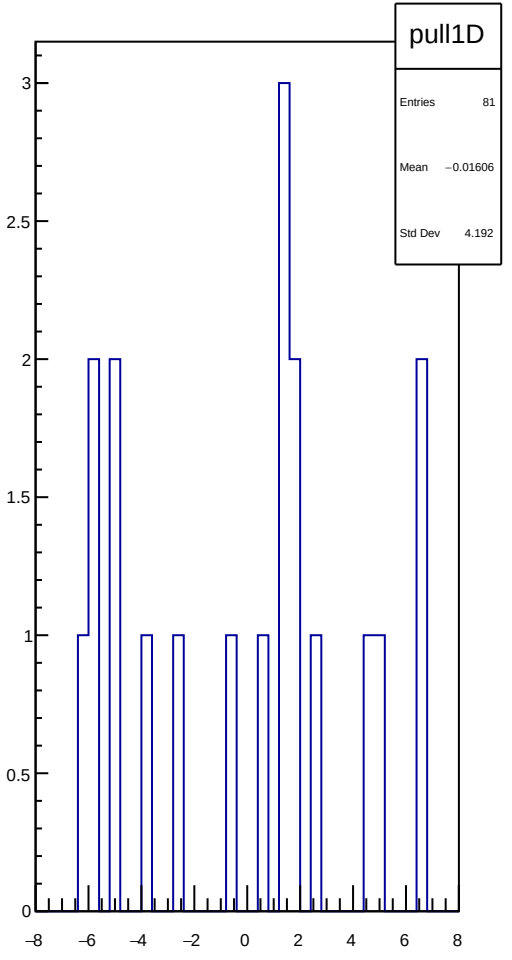

yield_cav4dY_rms vs run
χ² / ndf 3.406e+04 / 80
p0 0.0005398 ± 4.354e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

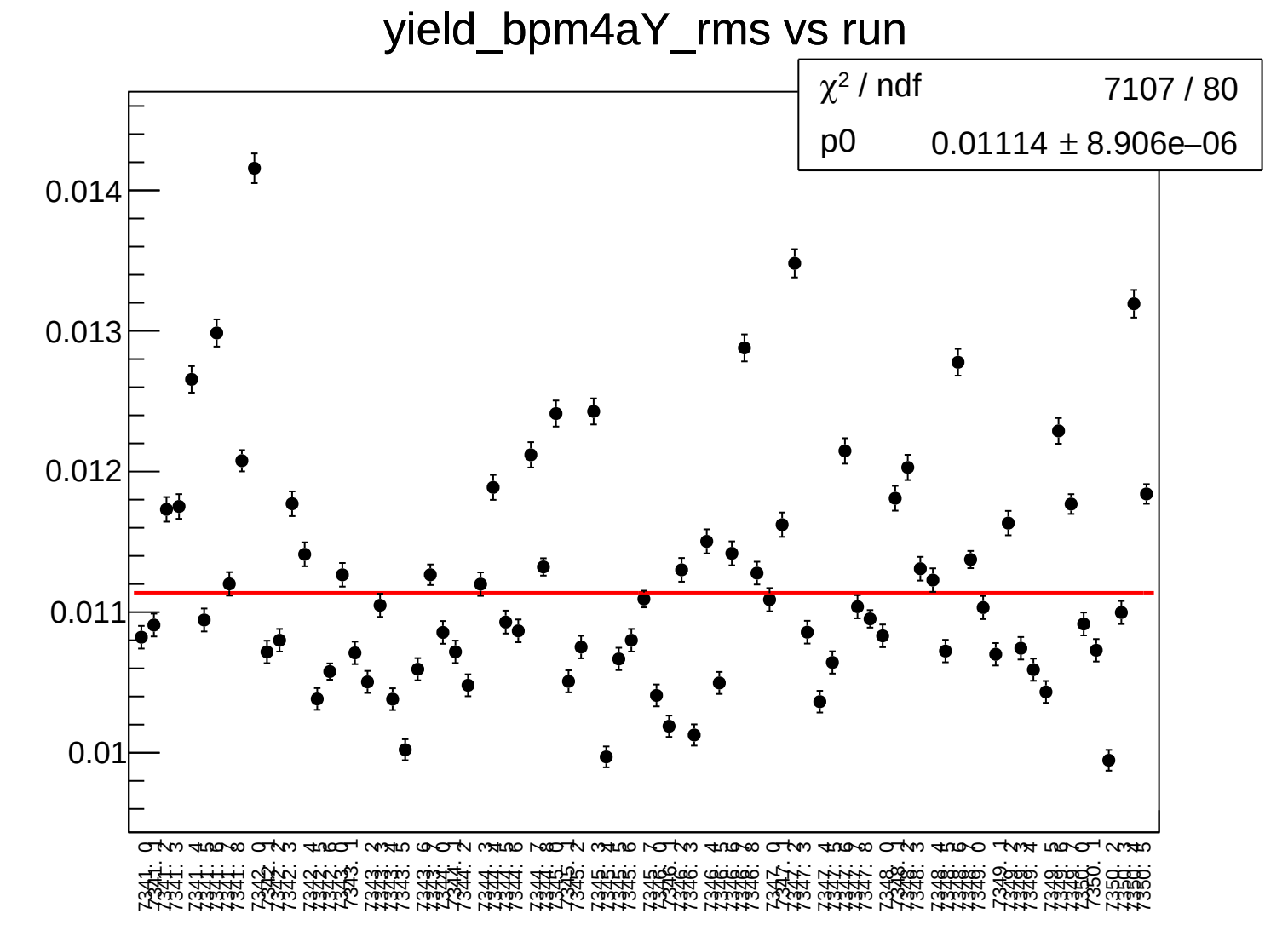

yield_bpm4aX_mean vs run
χ² / ndf 1.871e+05 / 80
p0 −0.444 ± 2.114e−05
pull
Entries 81
Mean 56.68
Std Dev 29.7

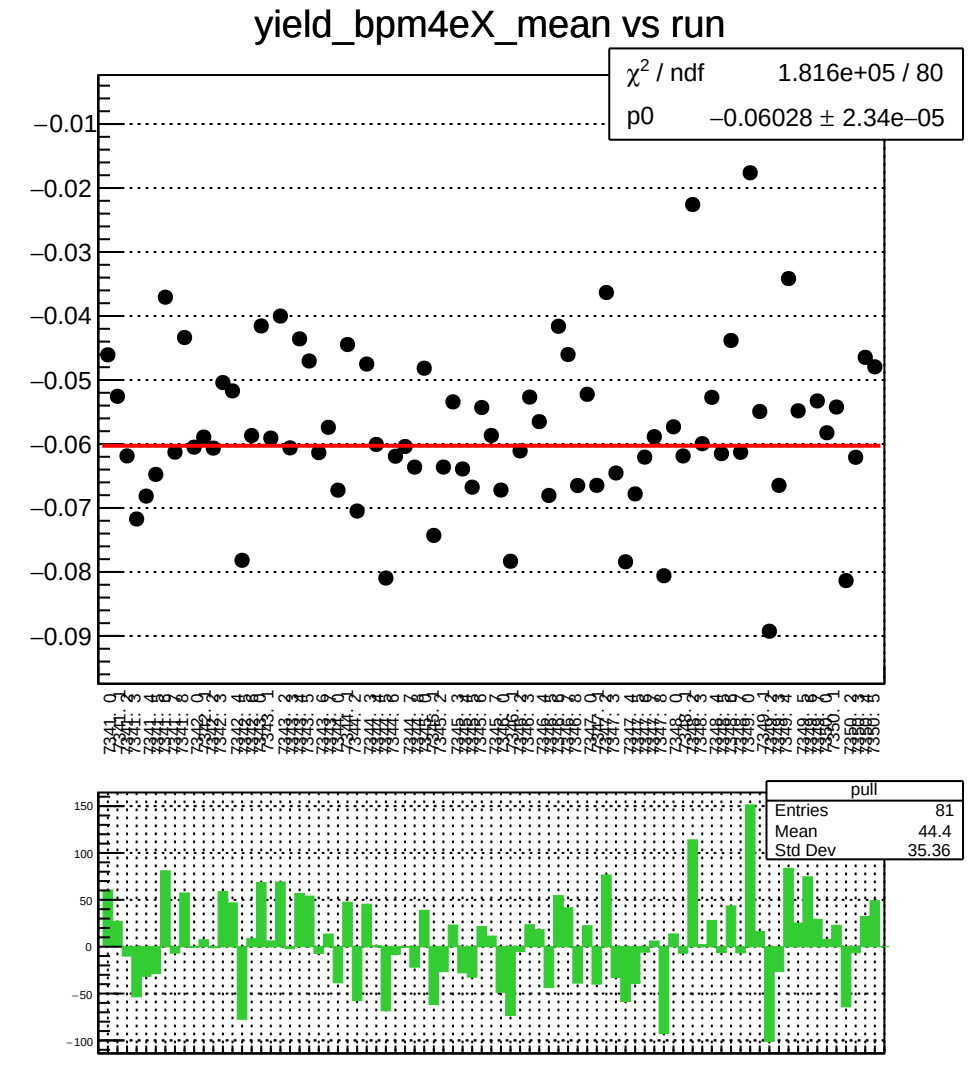

pull1D
Entries 81
Mean −3.862
Std Dev 2.013

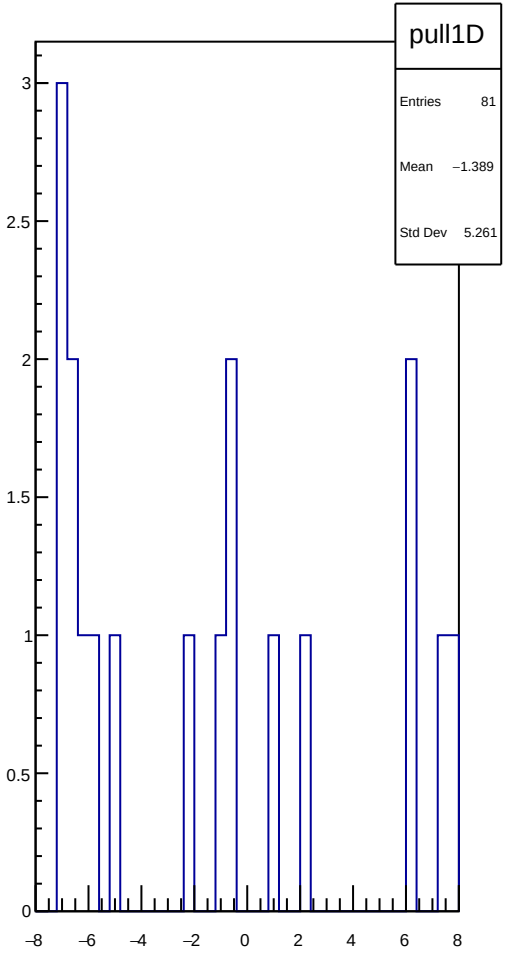

yield_bpm4aX_rms vs run
χ² / ndf 1.969e+05 / 80
p0 0.01752 ± 1.495e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

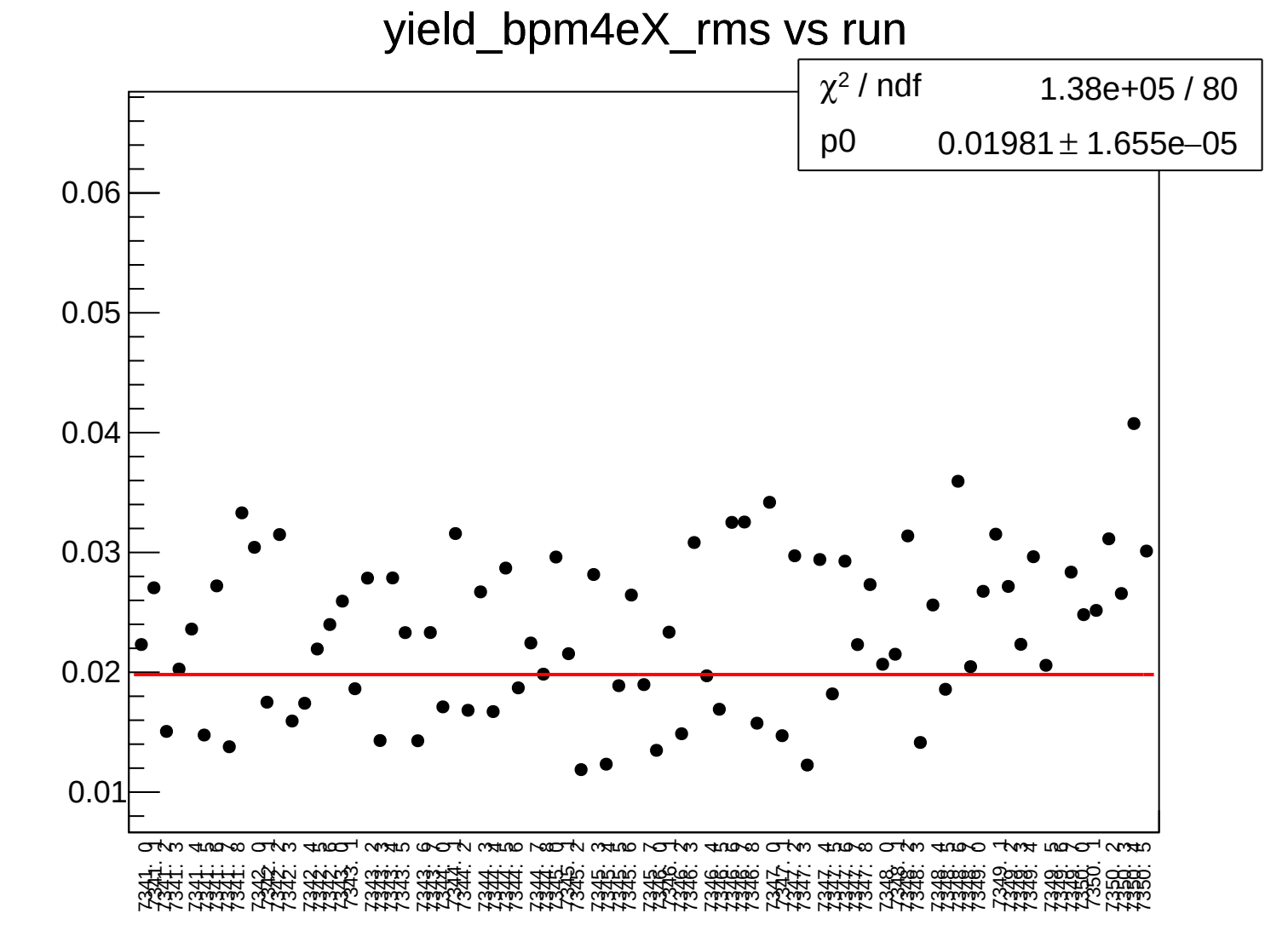

yield_bpm4aY_mean vs run
χ² / ndf 6.129e+04 / 80
p0 0.6278 ± 1.26e−05
0.636
0.634
0.632
0.63
0.628
0.626
0.624
0.622
0.62
pull
Entries 81
Mean −52.96
Std Dev 130.9
60
40
20
0
−20
−40
−60

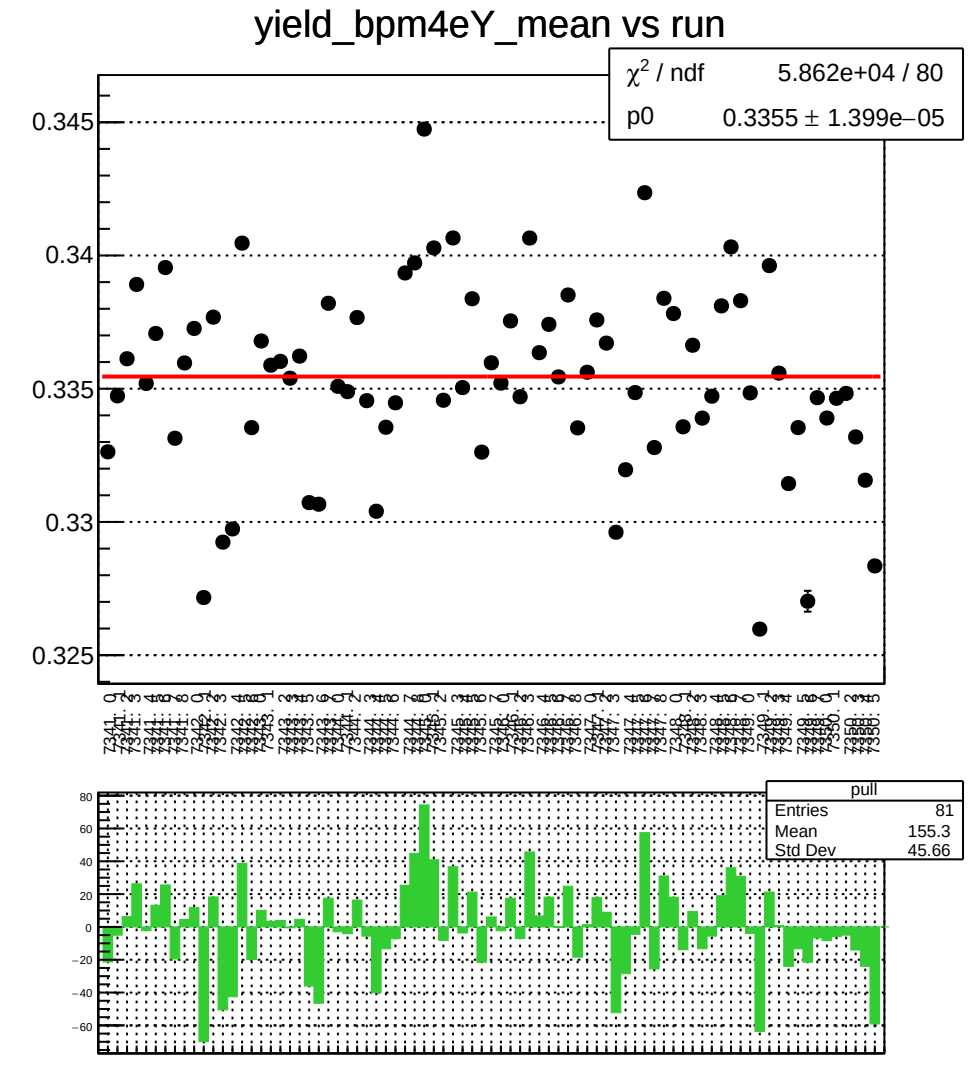

pull1D
Entries 81
Mean −0.01606
Std Dev 4.192
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

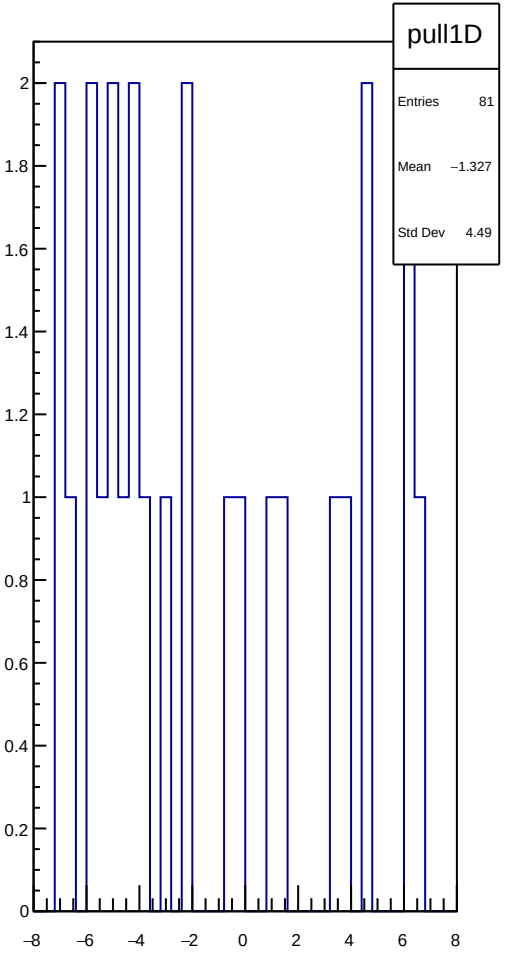

yield_bpm4aY_rms vs run
χ² / ndf 7107 / 80
p0 0.01114 ± 8.906e–06
0.014
0.013
0.012
0.011
0.01

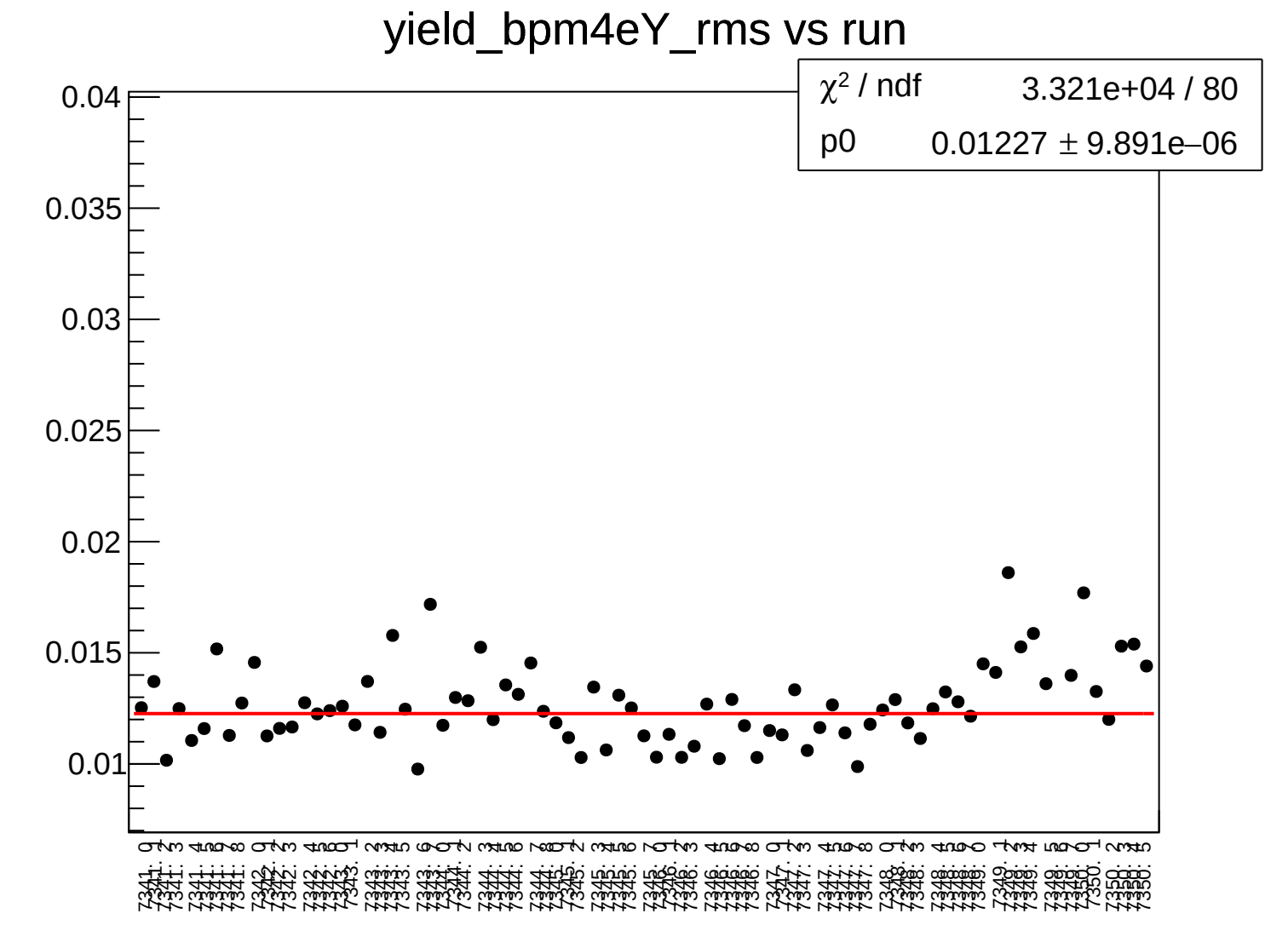

yield_bpm4eX_mean vs run
χ² / ndf 1.816e+05 / 80
p0 −0.06028 ± 2.34e−05
pull
Entries 81
Mean 44.4
Std Dev 35.36

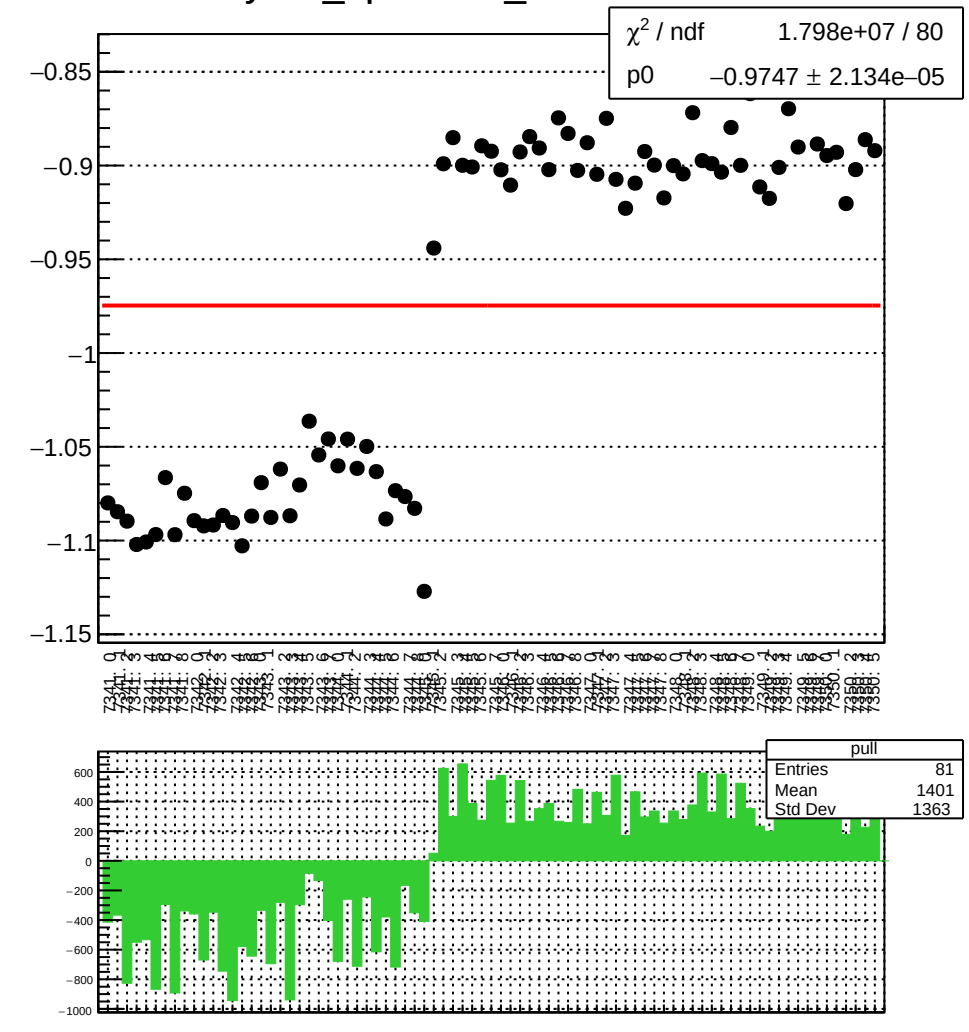

pull1D
Entries 81
Mean −1.389
Std Dev 5.261

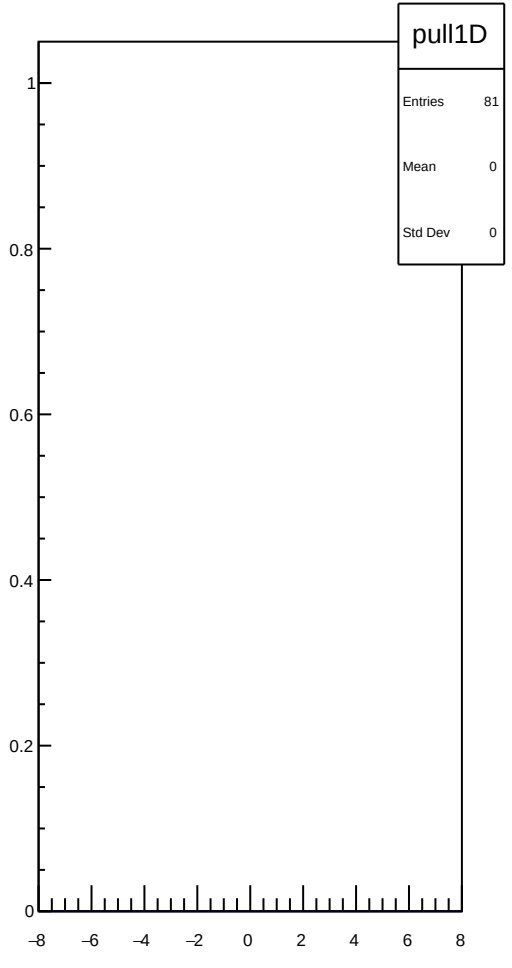

yield_bpm4eX_rms vs run
χ² / ndf 1.38e+05 / 80
p0 0.01981 ± 1.655e−05
0.06
0.05
0.04
0.03
0.02
0.01

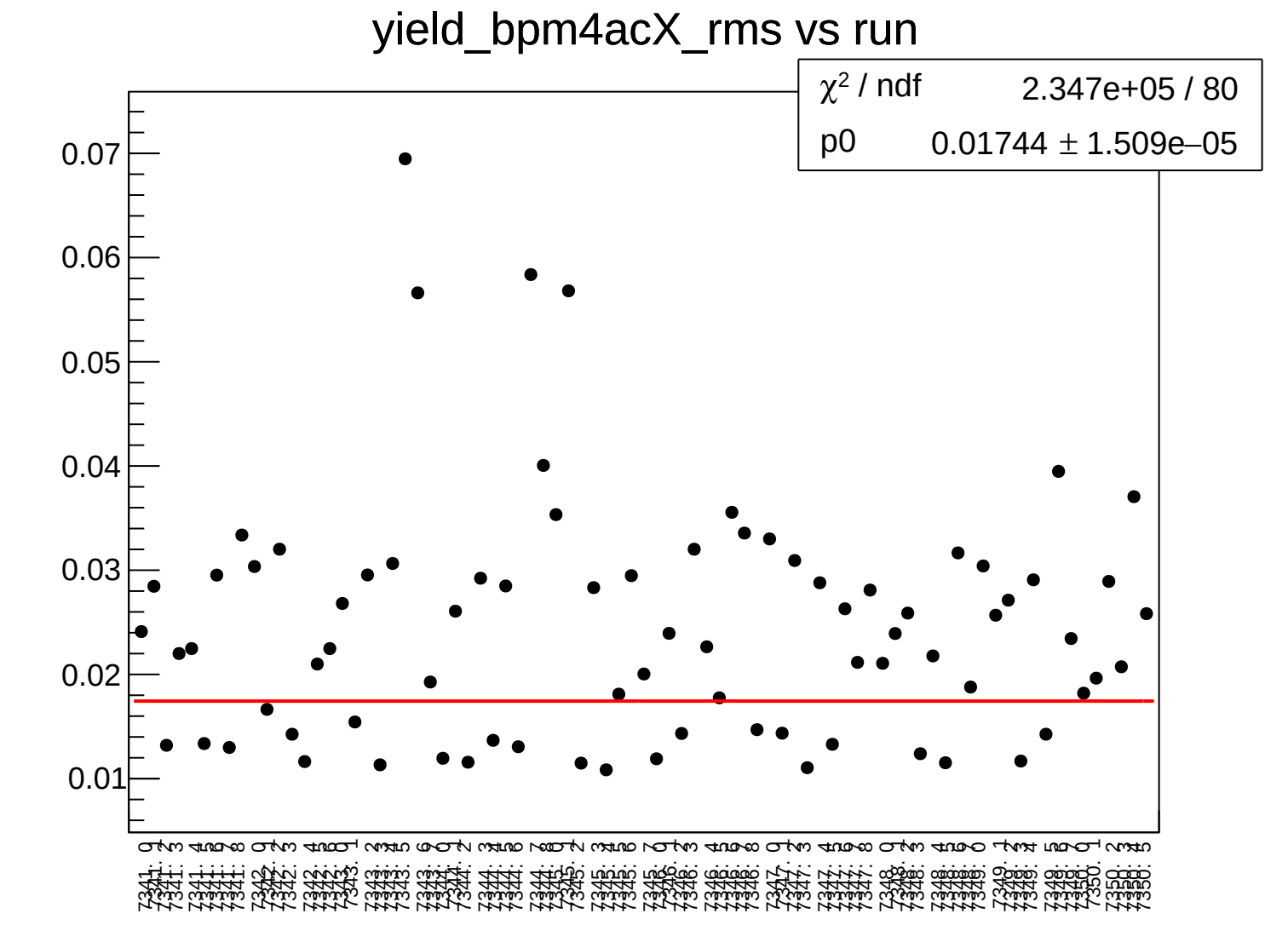

yield_bpm4eY_mean vs run
χ² / ndf 5.862e+04 / 80
p0 0.3355 ± 1.399e−05
0.345
0.34
0.335
0.33
0.325
pull
Entries 81
Mean 155.3
Std Dev 45.66
80
60
40
20
0
−20
−40
−60

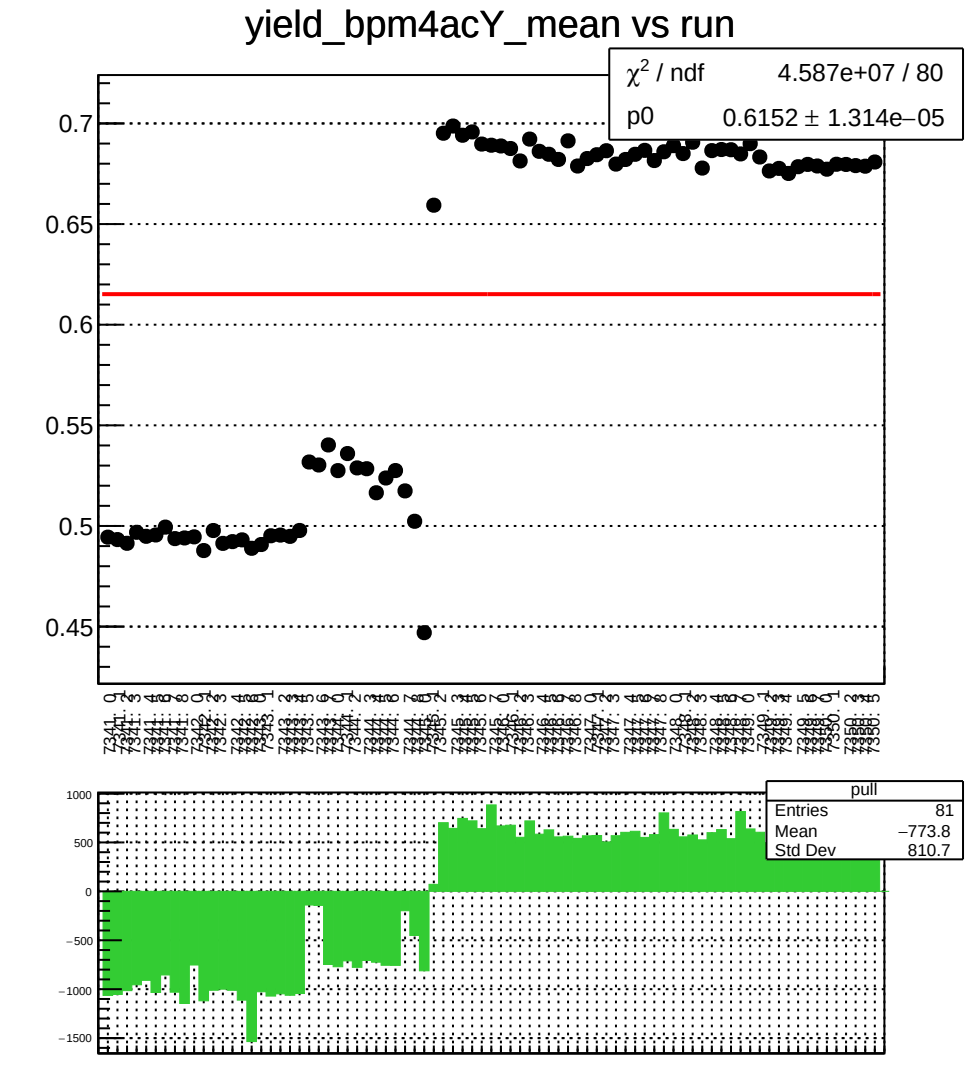

pull1D
Entries 81
Mean −1.327
Std Dev 4.49
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

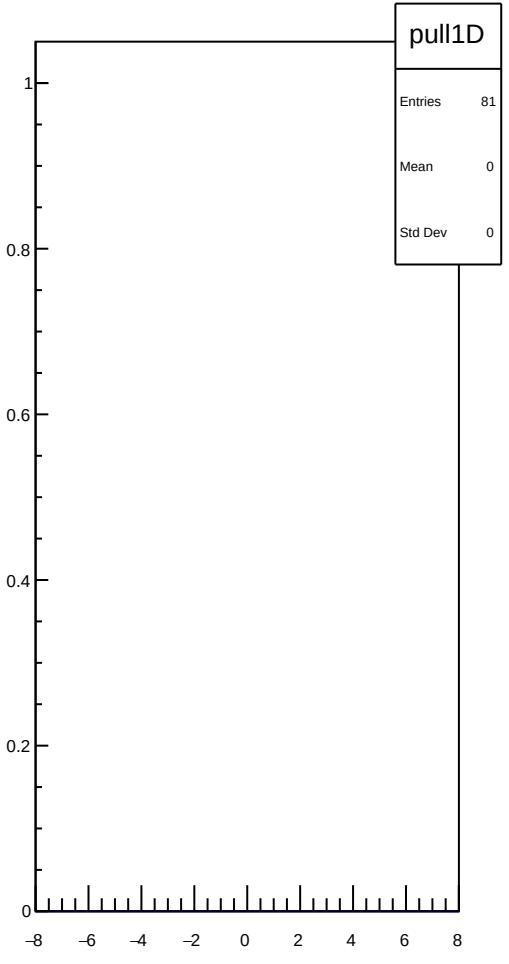

yield_bpm4eY_rms vs run
χ² / ndf 3.321e+04 / 80
p0 0.01227 ± 9.891e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

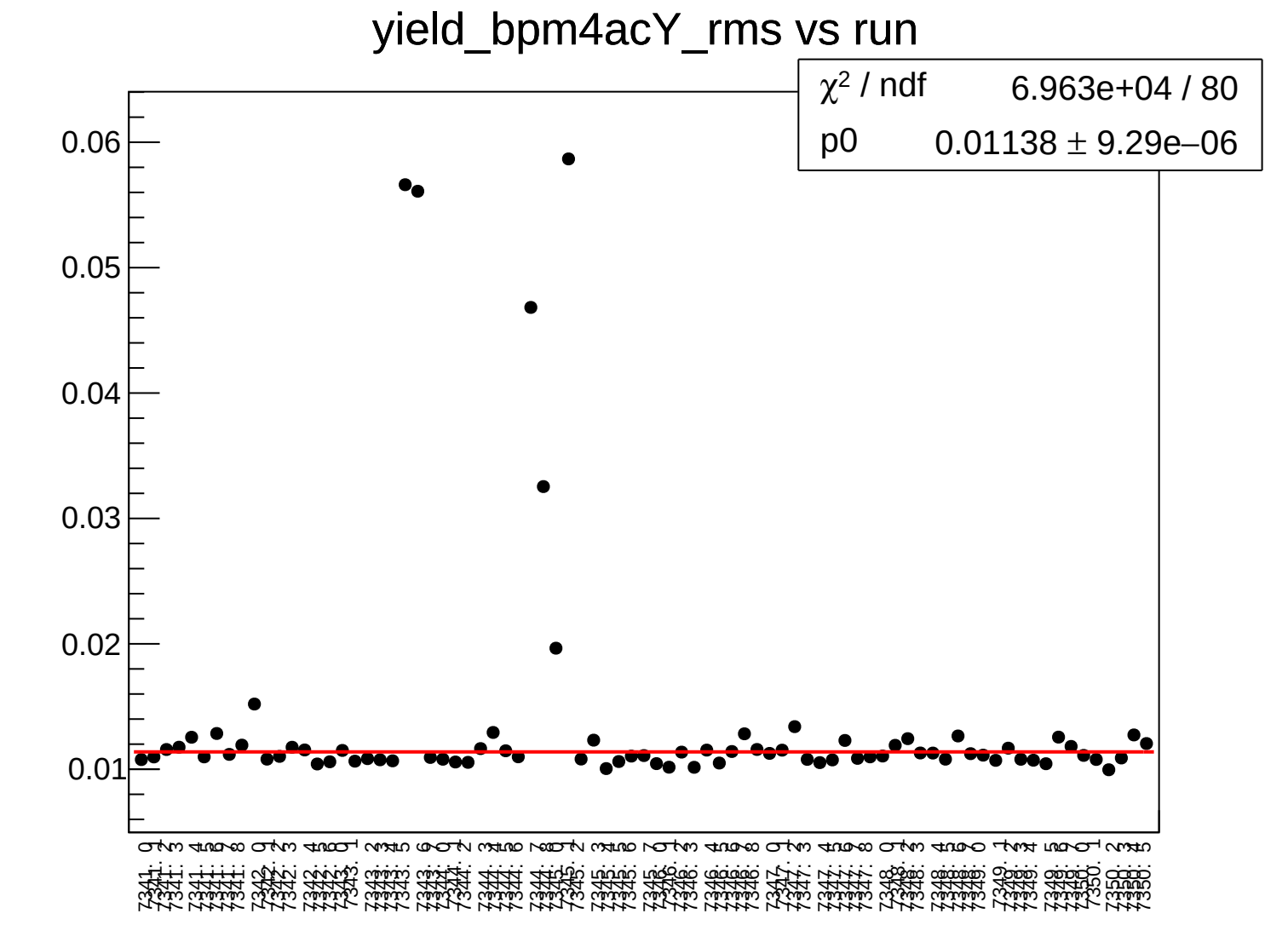

yield_bpm4acX_mean vs run
χ² / ndf 1.798e+07 / 80
p0 −0.9747 ± 2.134e−05
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 81
Mean 1401
Std Dev 1363
600
400
200
0
−200
−400
−600
−800
−1000

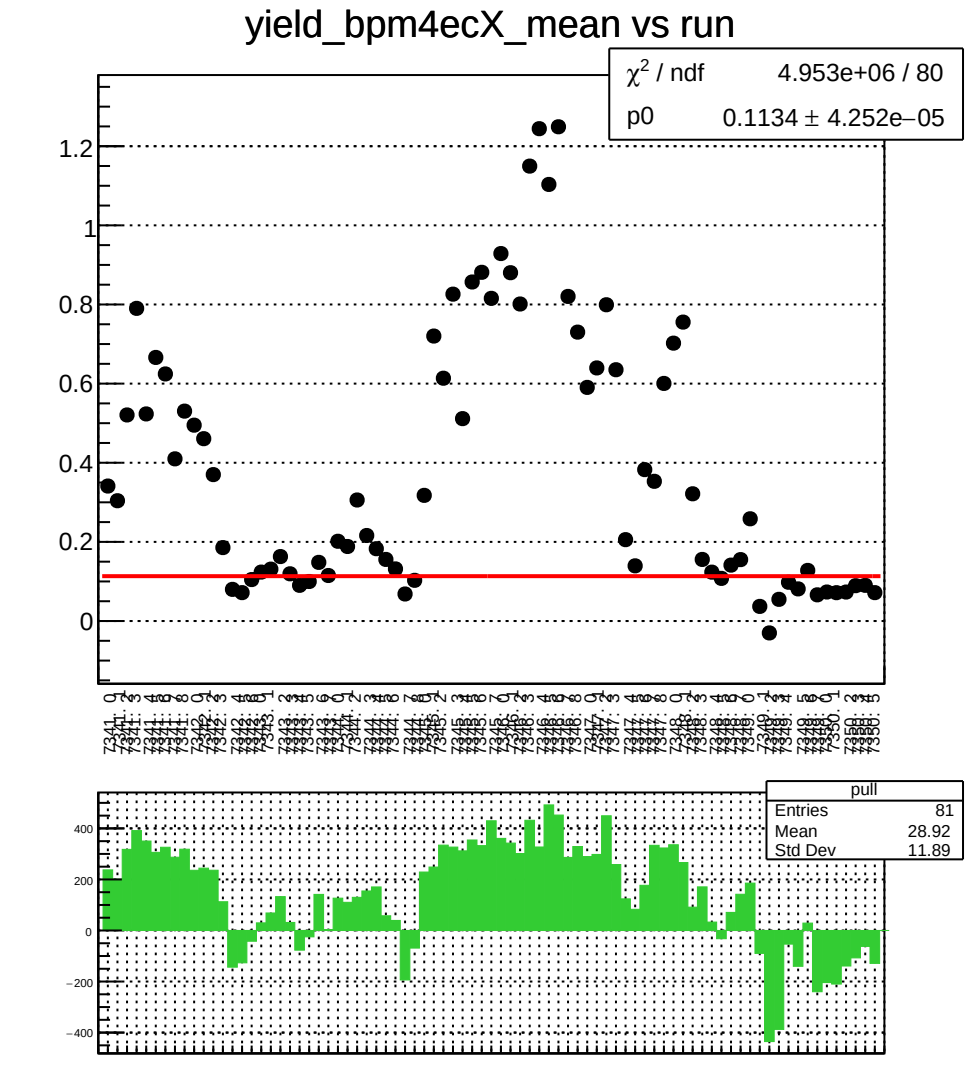

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

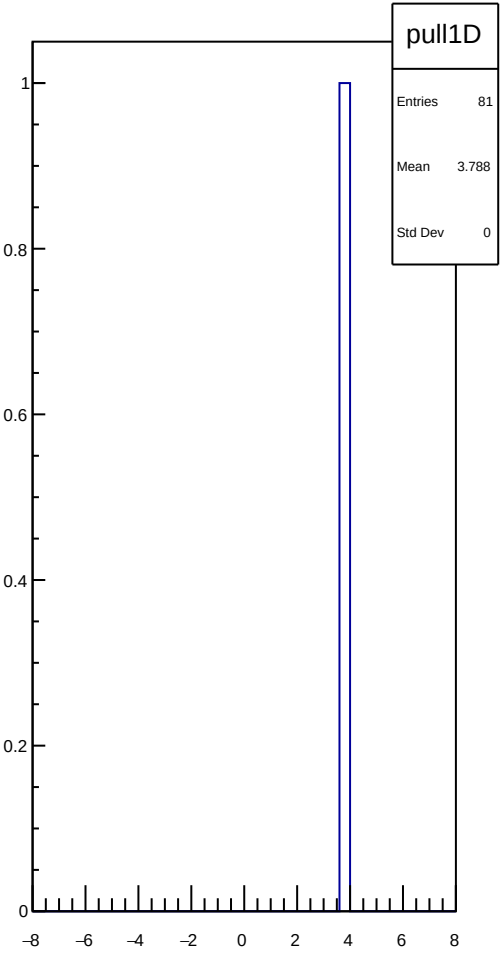

yield_bpm4acX_rms vs run
χ² / ndf 2.347e+05 / 80
p0 0.01744 ± 1.509e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

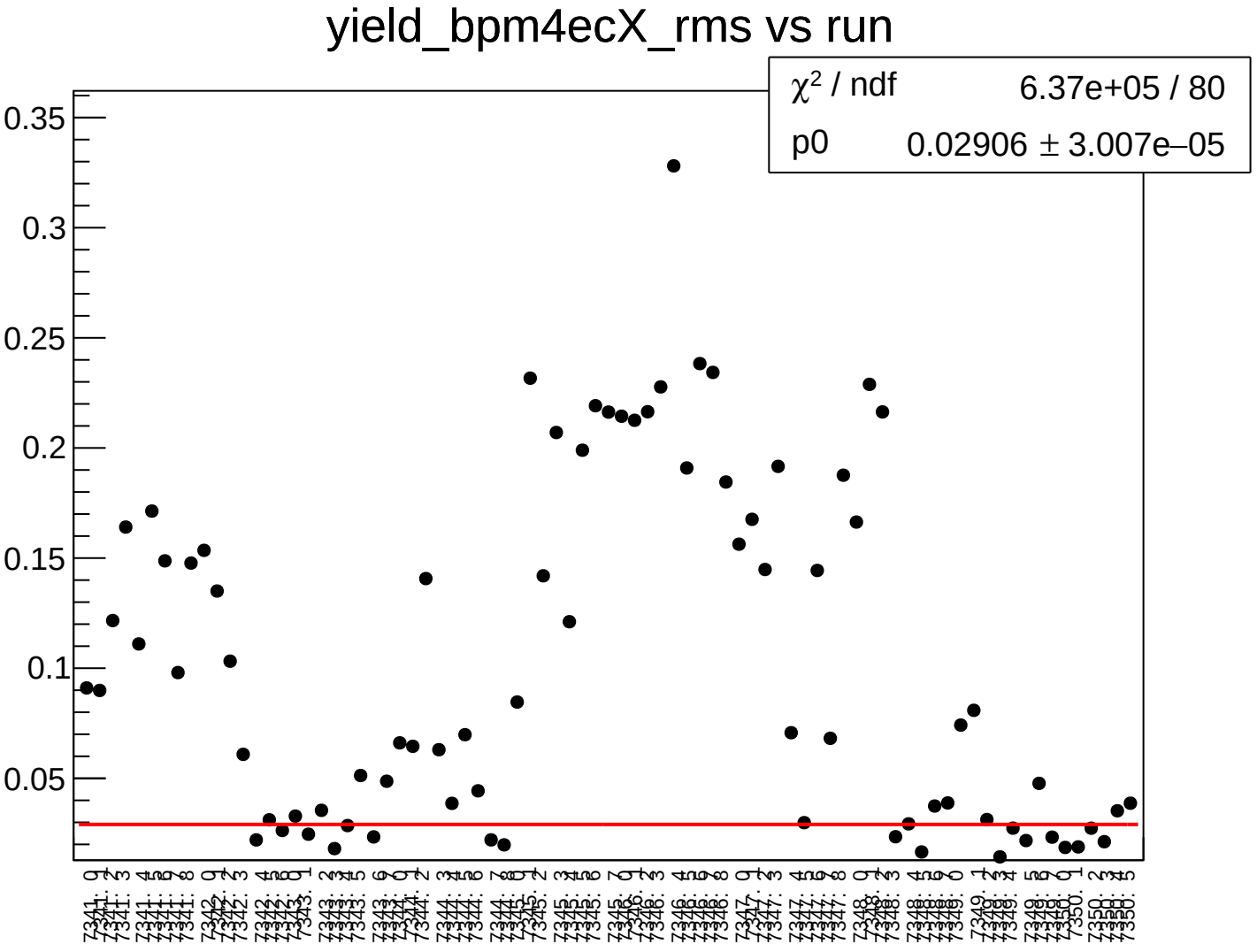

yield_bpm4acY_mean vs run
χ² / ndf 4.587e+07 / 80
p0 0.6152 ± 1.314e−05
0.7
0.65
0.6
0.55
0.5
0.45
pull
Entries 81
Mean −773.8
Std Dev 810.7
1000
500
0
−500
−1000
−1500

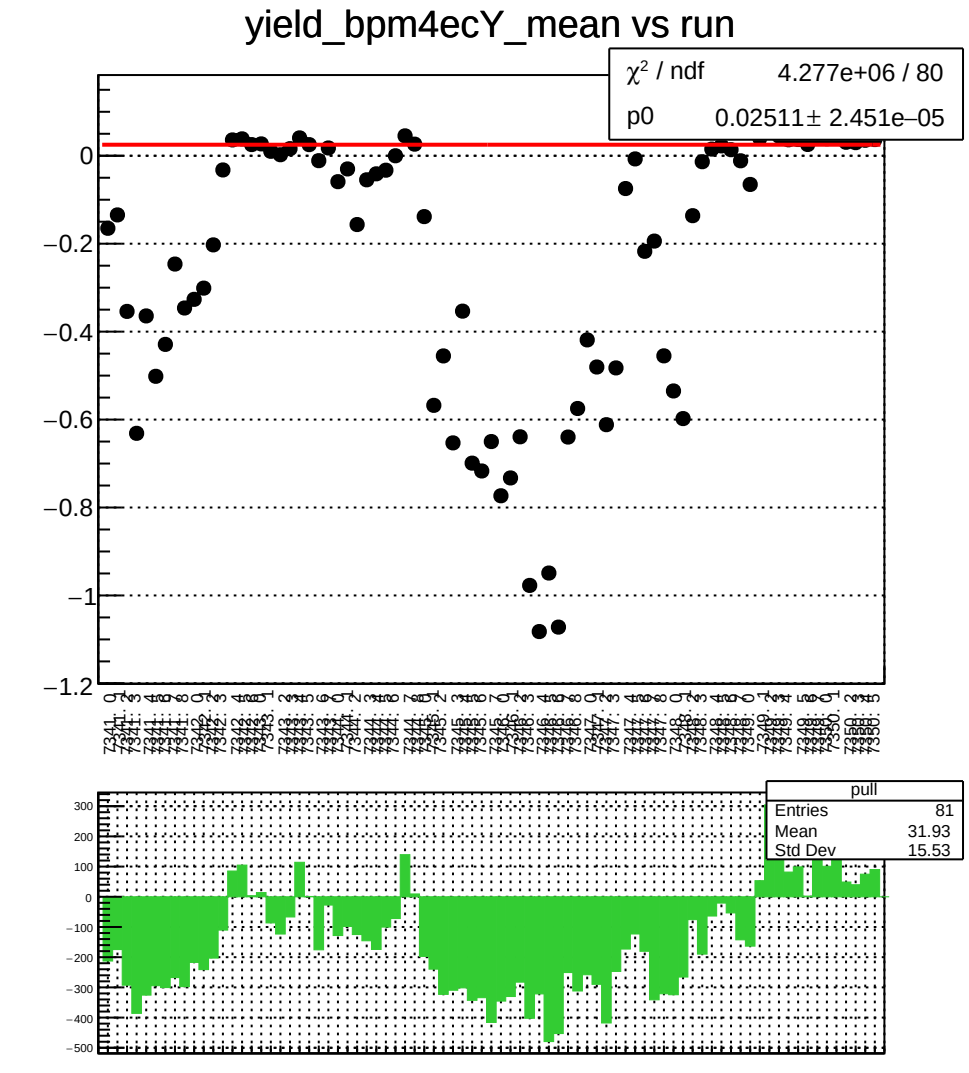

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

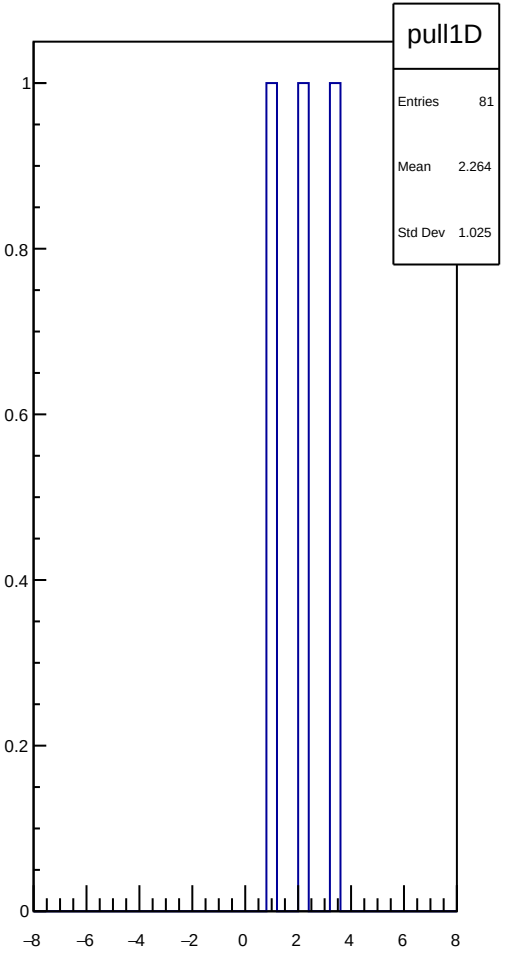

yield_bpm4acY_rms vs run
χ² / ndf 6.963e+04 / 80
p0 0.01138 ± 9.29e−06
0.06
0.05
0.04
0.03
0.02
0.01

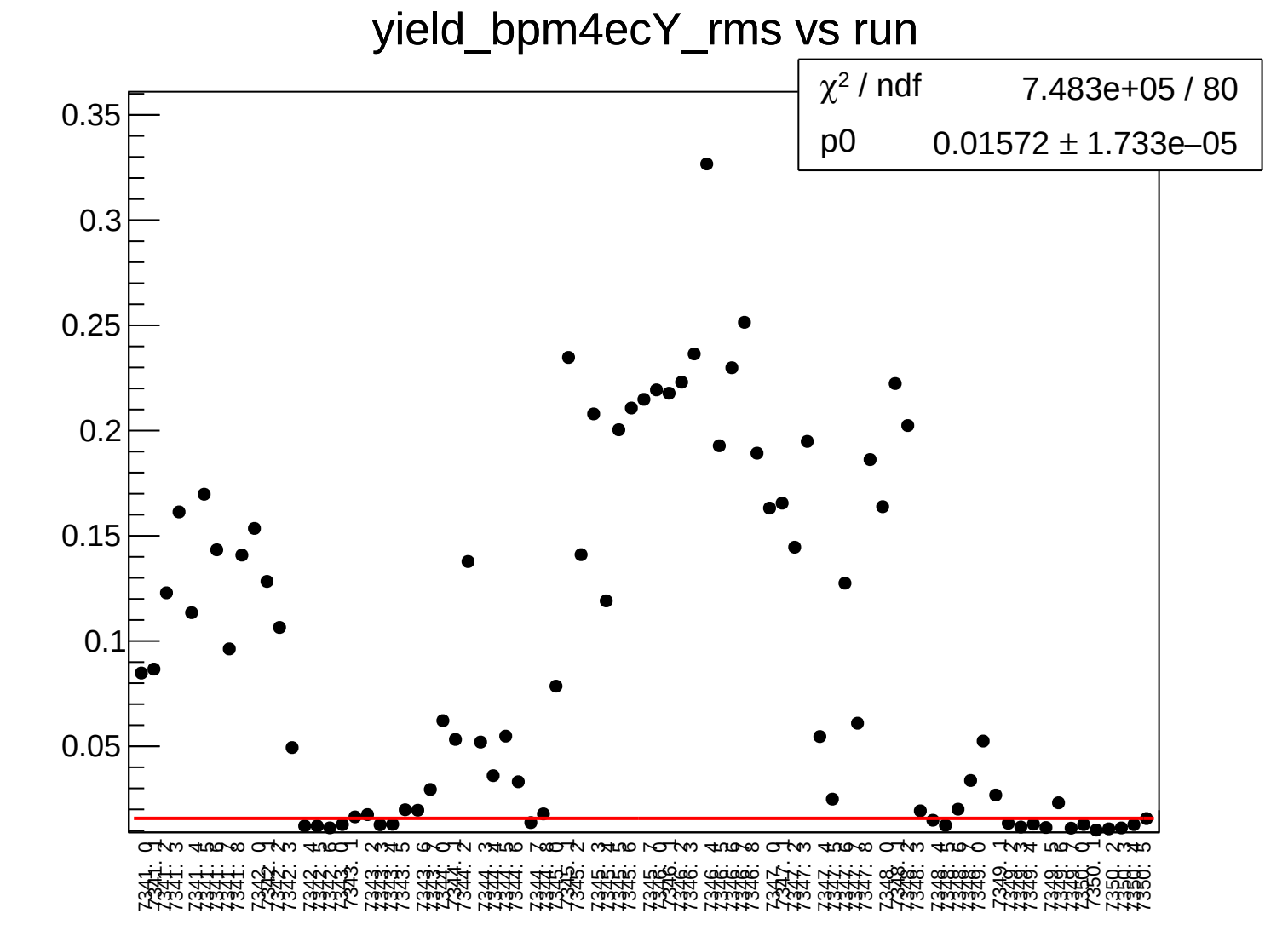

yield_bpm4ecX_mean vs run
χ² / ndf 4.953e+06 / 80
p0 0.1134 ± 4.252e−05
pull
Entries 81
Mean 28.92
Std Dev 11.89

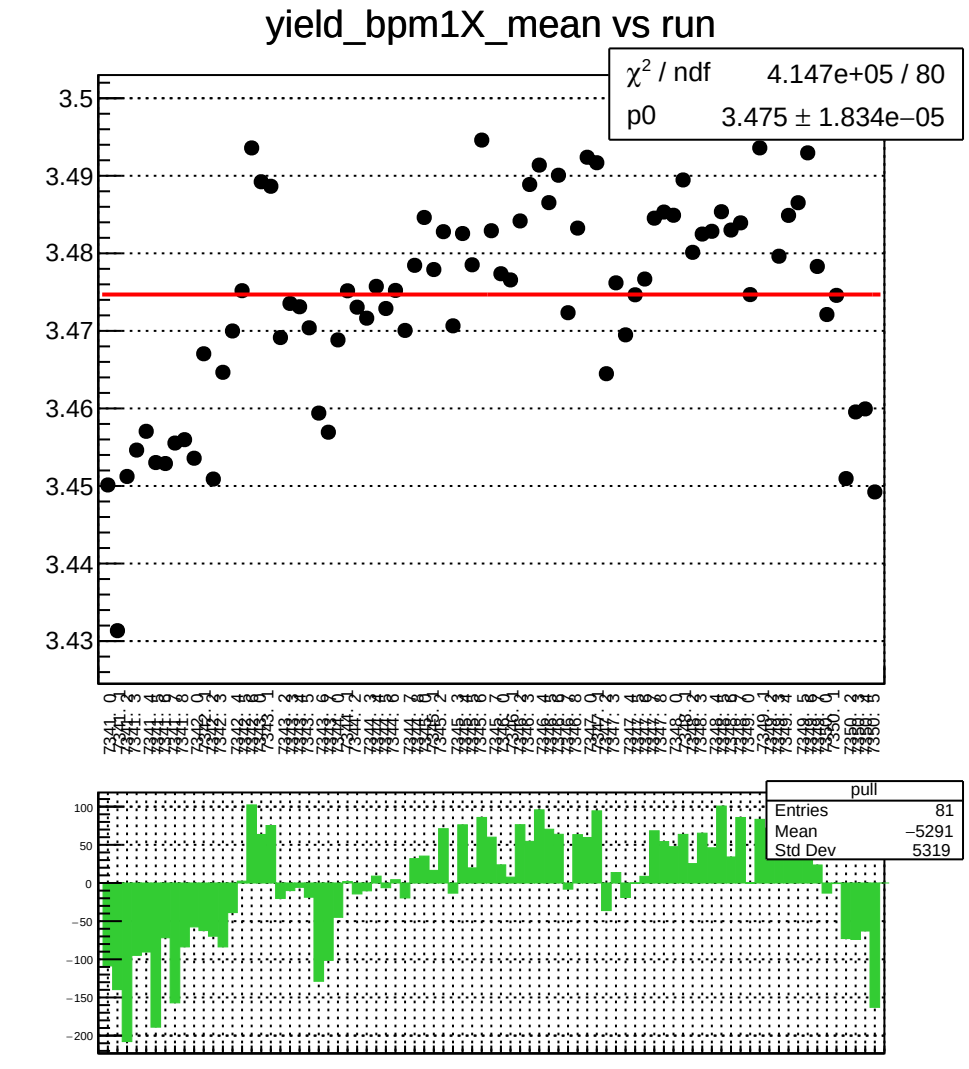

pull1D
Entries 81
Mean 3.788
Std Dev 0

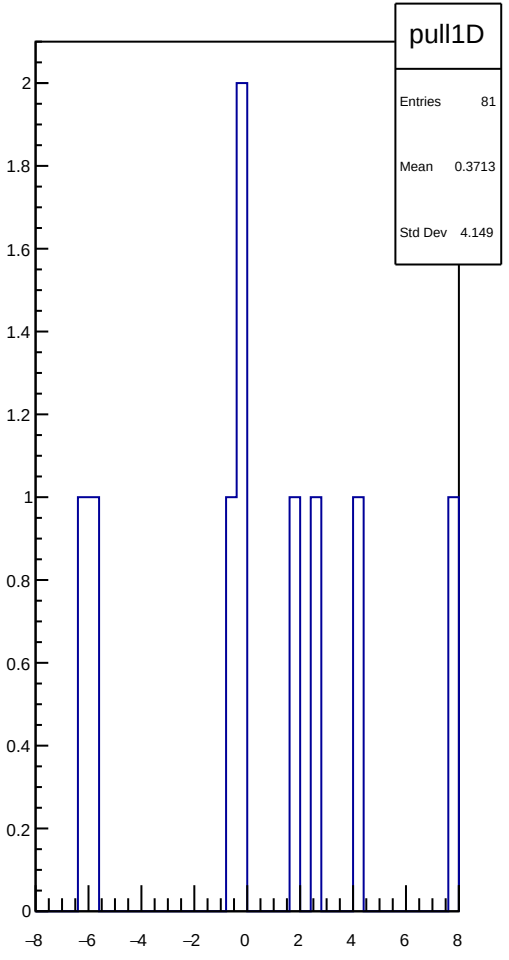

yield_bpm4ecX_rms vs run
χ² / ndf 6.37e+05 / 80
p0 0.02906 ± 3.007e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

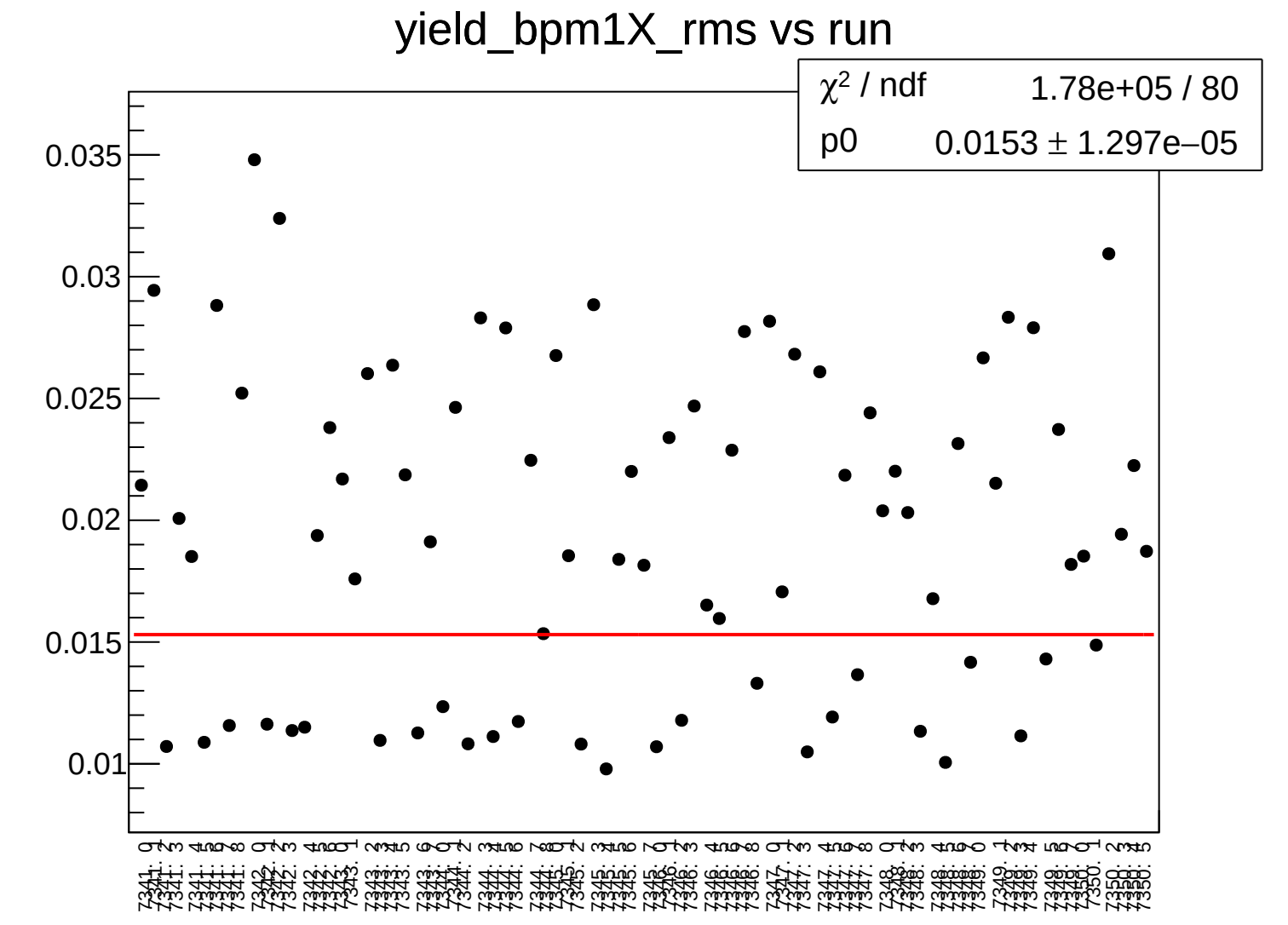

yield_bpm4ecY_mean vs run
χ² / ndf 4.277e+06 / 80
p0 0.02511± 2.451e−05
pull
Entries 81
Mean 31.93
Std Dev 15.53

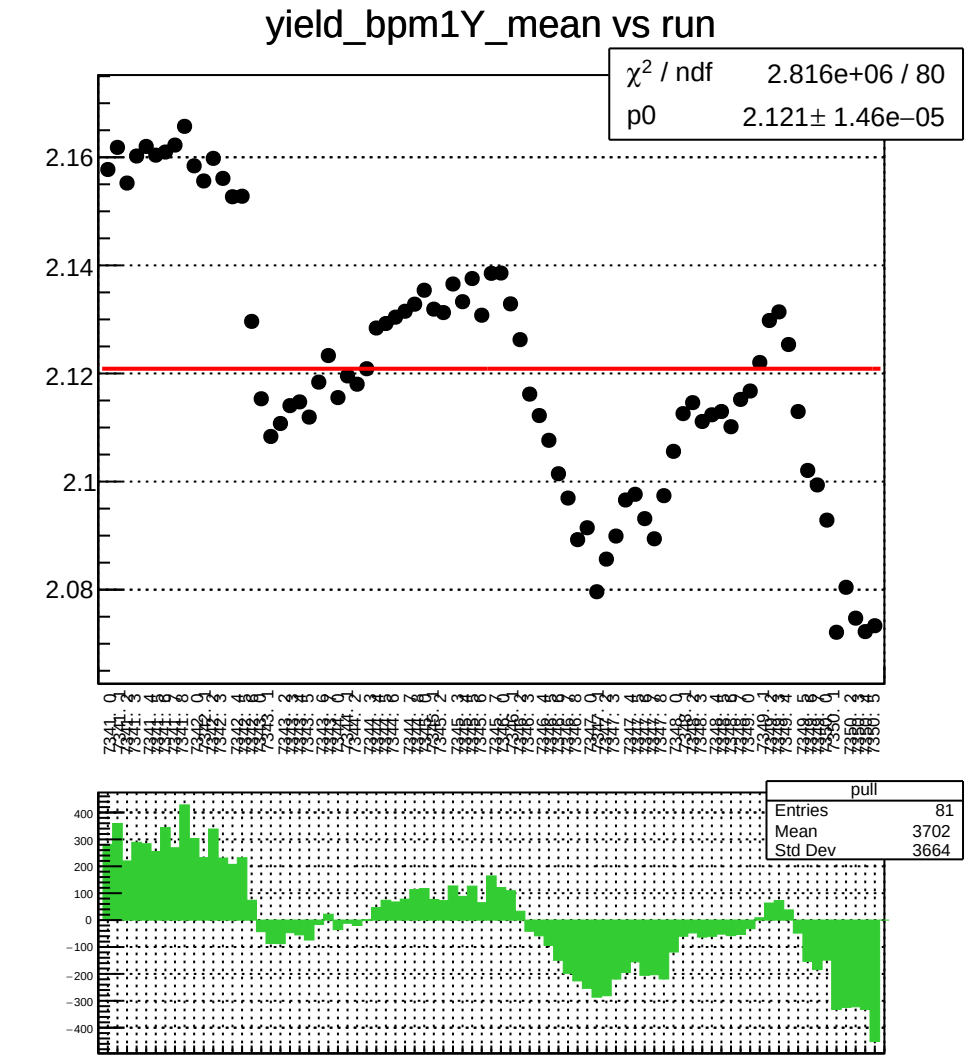

pull1D
Entries 81
Mean 2.264
Std Dev 1.025

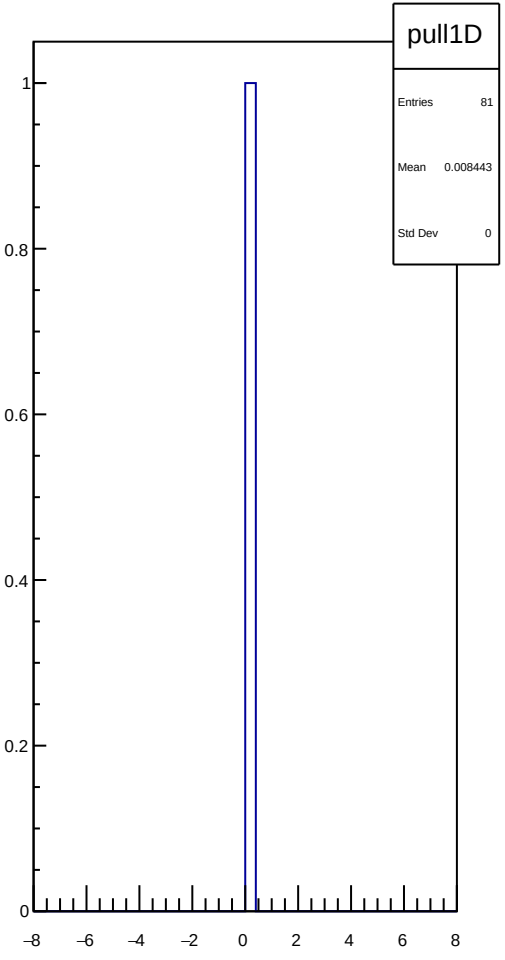

yield_bpm4ecY_rms vs run
χ² / ndf 7.483e+05 / 80
p0 0.01572 ± 1.733e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

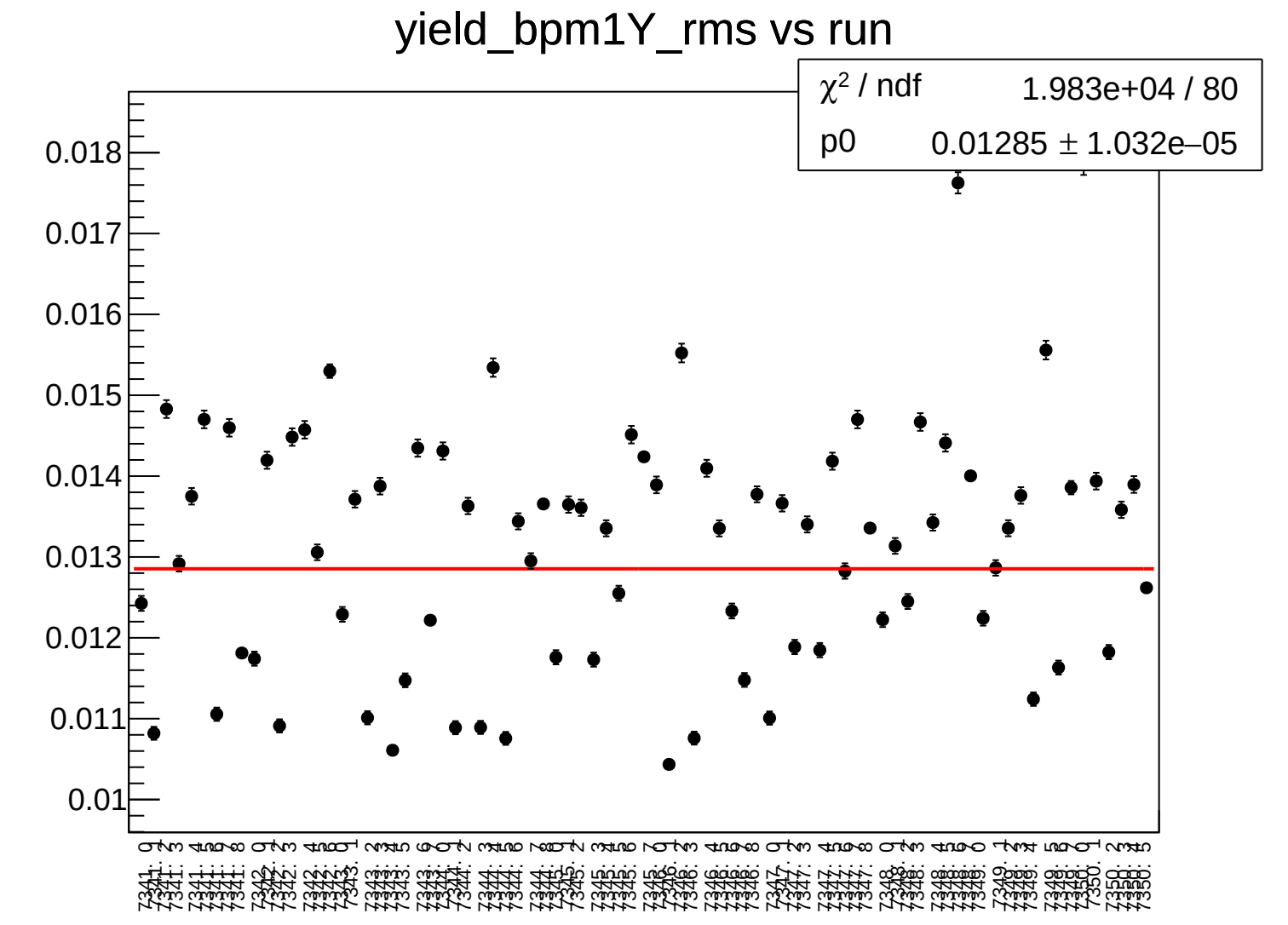

yield_bpm1X_mean vs run
χ² / ndf 4.147e+05 / 80
p0 3.475 ± 1.834e−05
pull
Entries 81
Mean −5291
Std Dev 5319

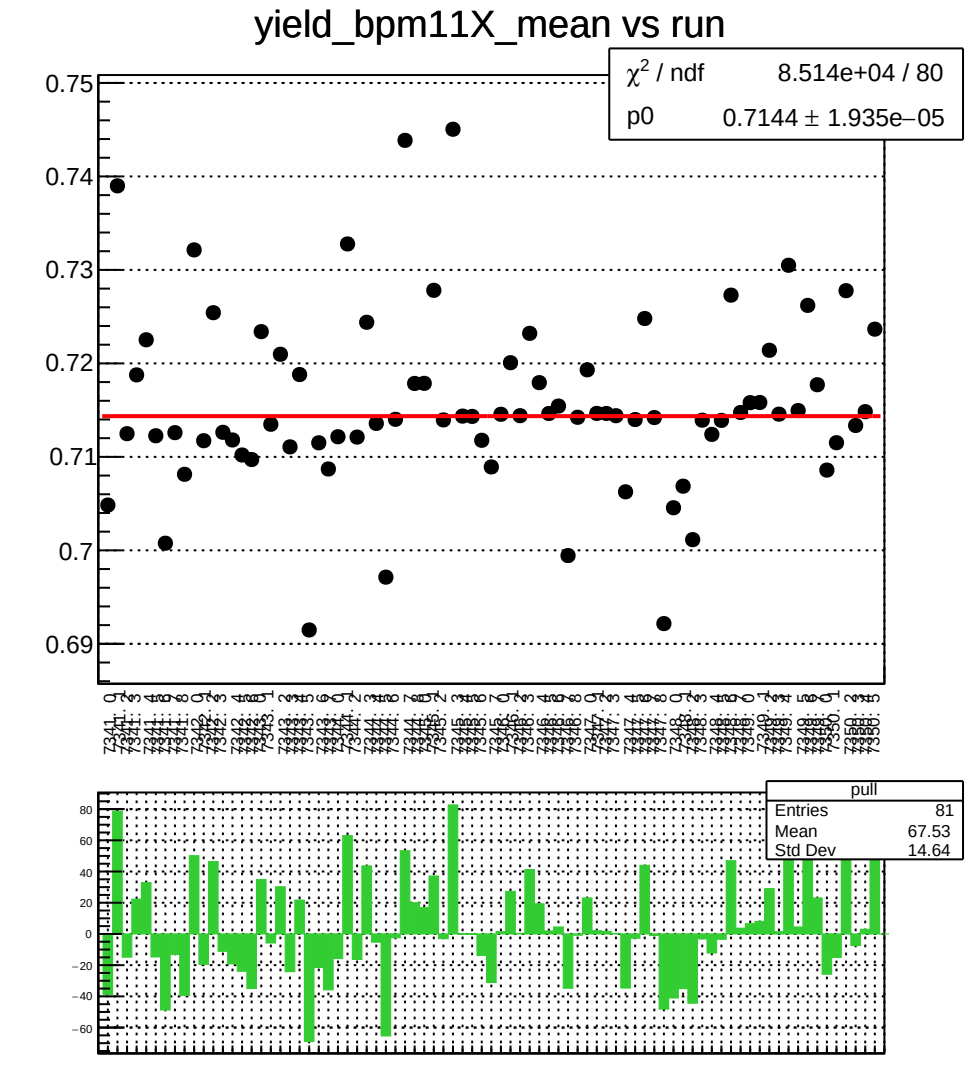

pull1D
Entries 81
Mean 0.3713
Std Dev 4.149

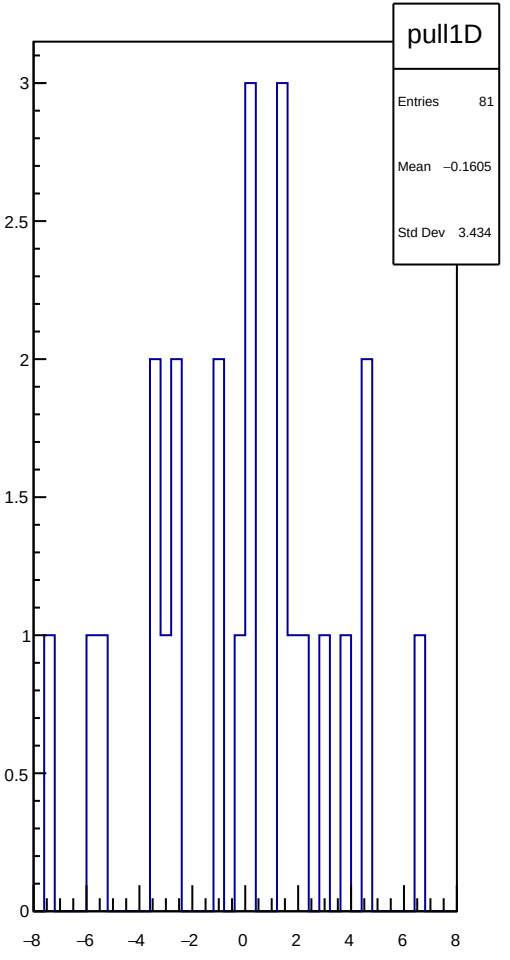

yield_bpm1X_rms vs run
χ² / ndf 1.78e+05 / 80
p0 0.0153 ± 1.297e−05
0.035
0.03
0.025
0.02
0.015
0.01

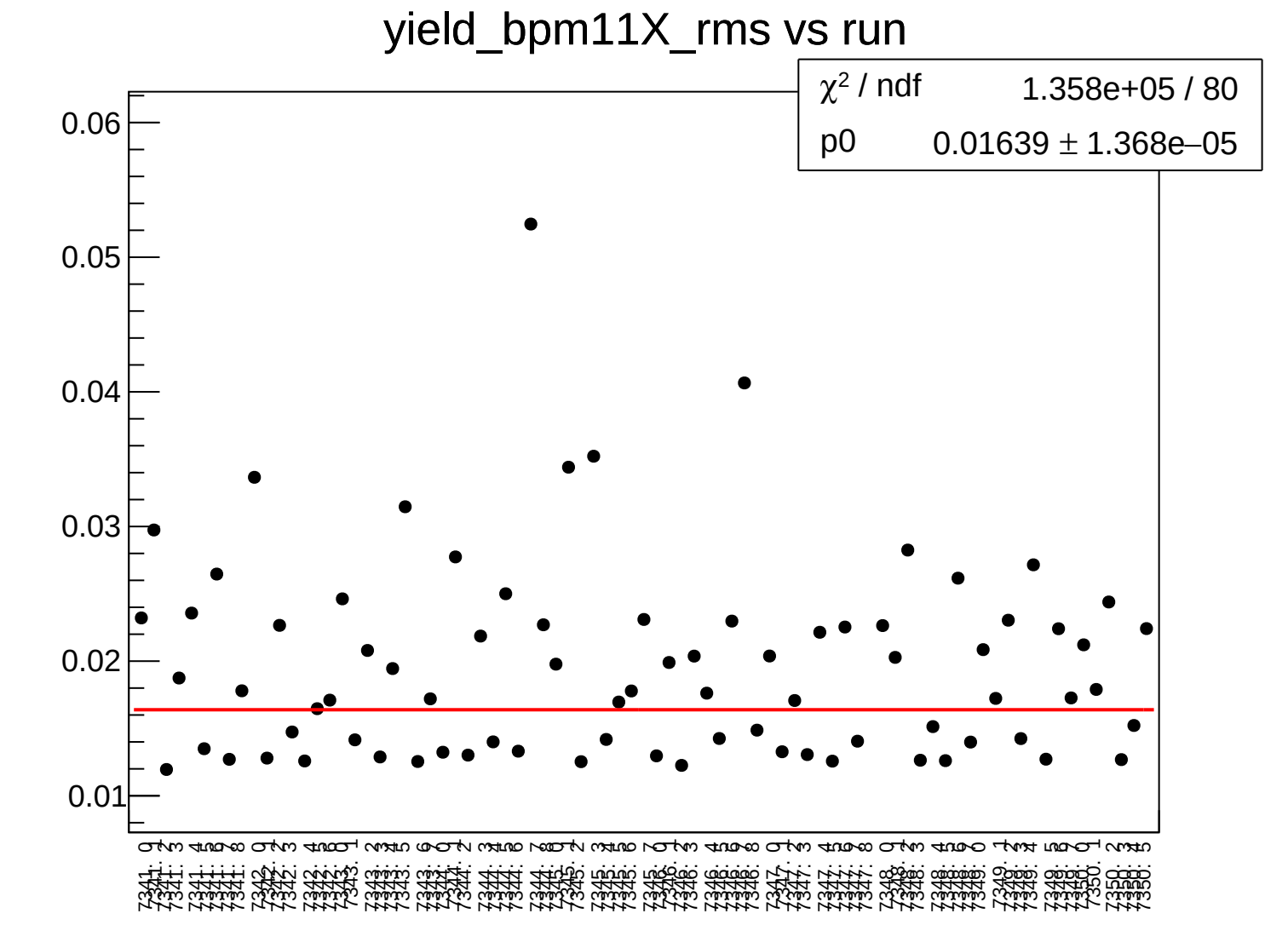

yield_bpm1Y_mean vs run
χ² / ndf 2.816e+06 / 80
p0 2.121± 1.46e−05
2.16
2.14
2.12
2.1
2.08
pull
Entries 81
Mean 3702
Std Dev 3664
400
300
200
100
0
−100
−200
−300
−400

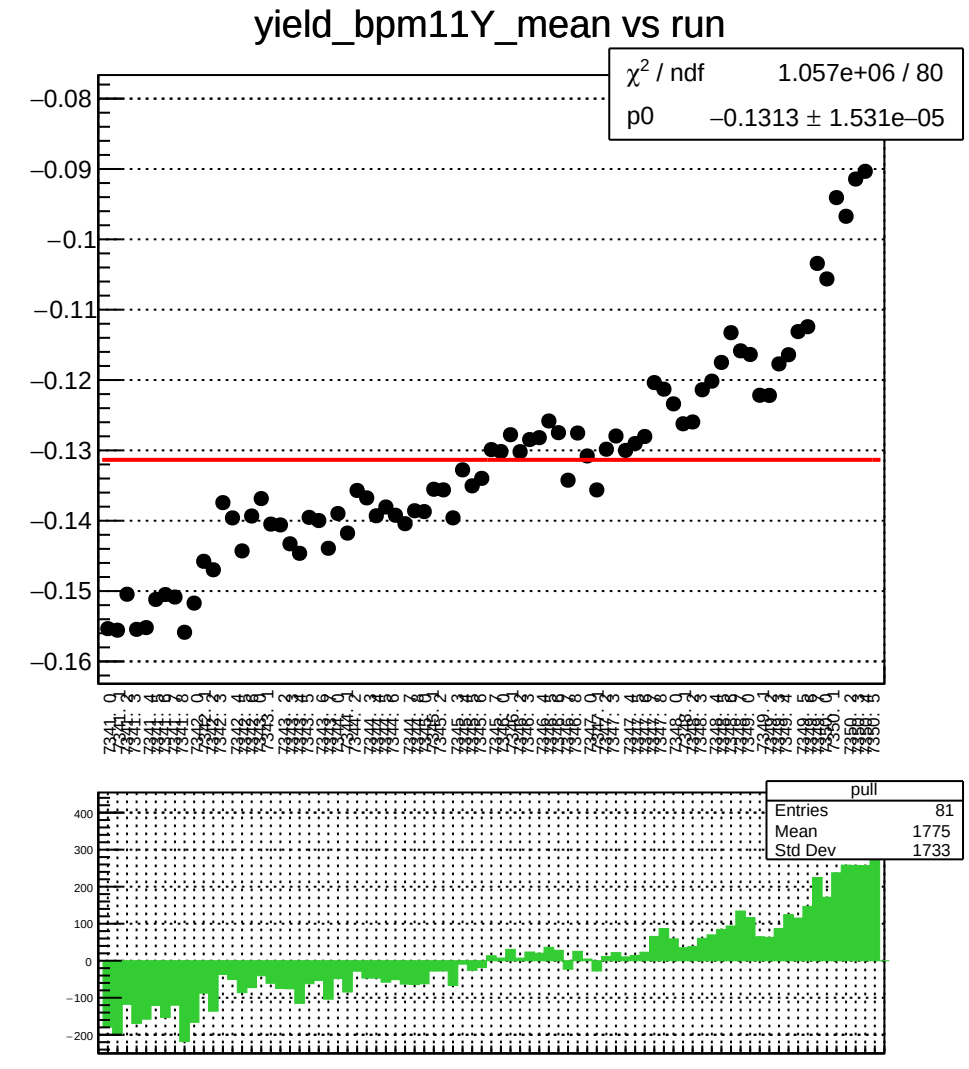

pull1D
Entries 81
Mean 0.008443
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

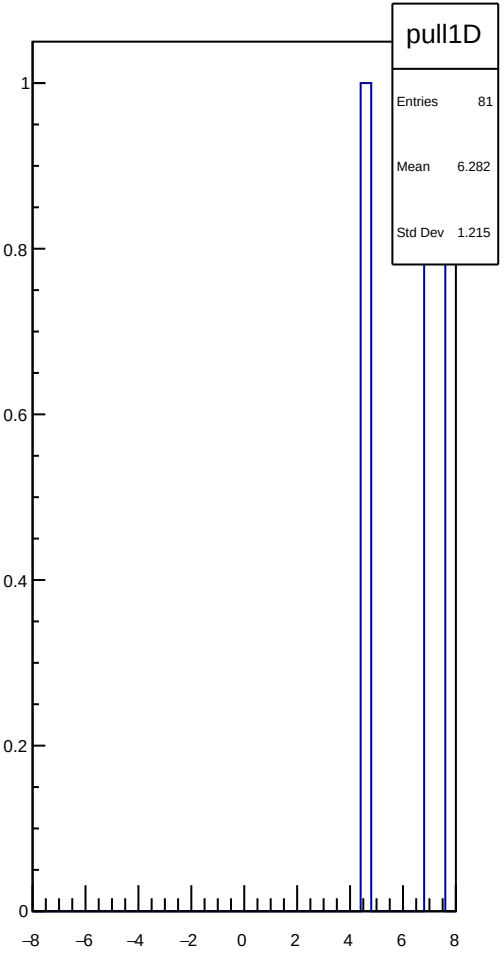

yield_bpm1Y_rms vs run
χ² / ndf 1.983e+04 / 80
p0 0.01285 ± 1.032e−05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

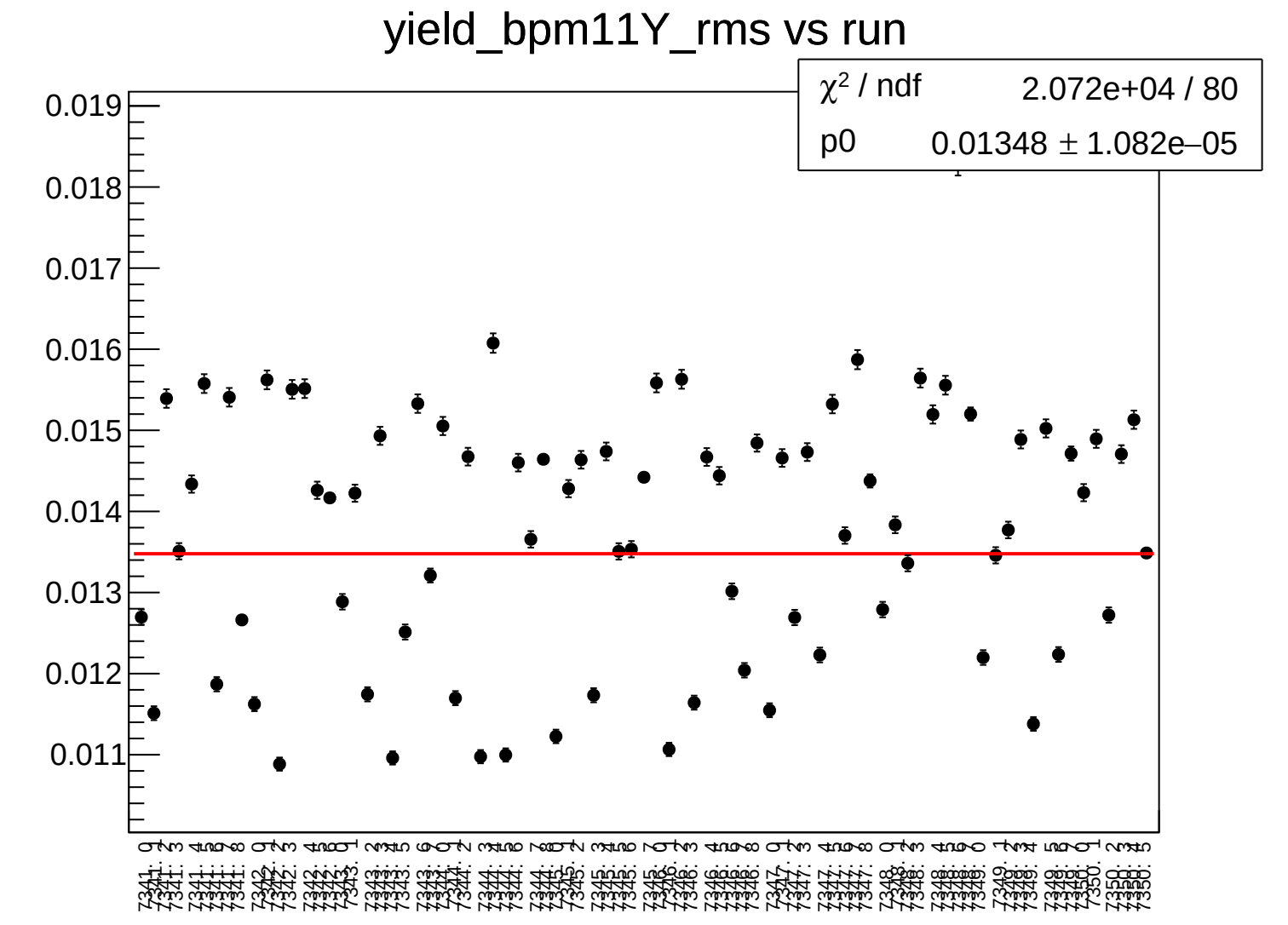

yield_bpm11X_mean vs run
χ² / ndf 8.514e+04 / 80
p0 0.7144 ± 1.935e−05
0.75
0.74
0.73
0.72
0.71
0.7
0.69
pull
Entries 81
Mean 67.53
Std Dev 14.64
80
60
40
20
0
−20
−40
−60

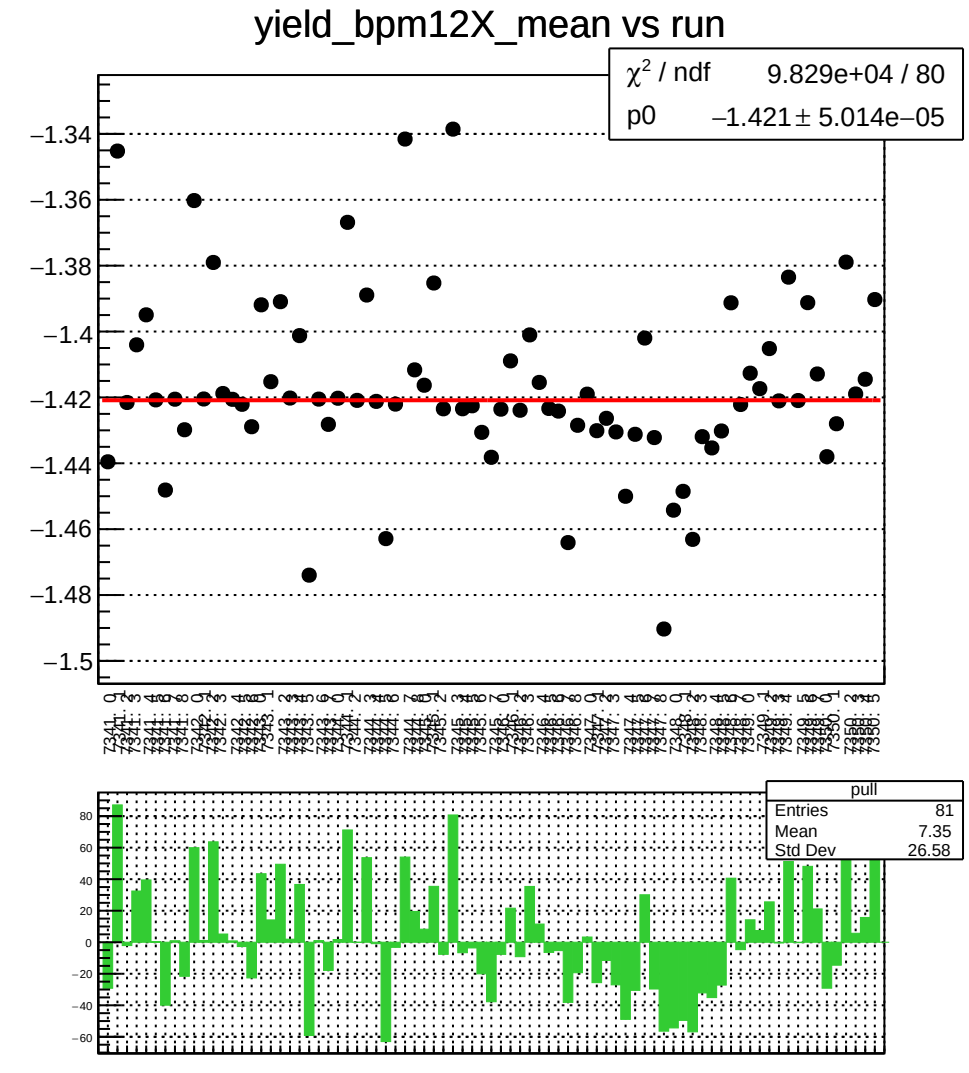

pull1D
Entries 81
Mean −0.1605
Std Dev 3.434
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

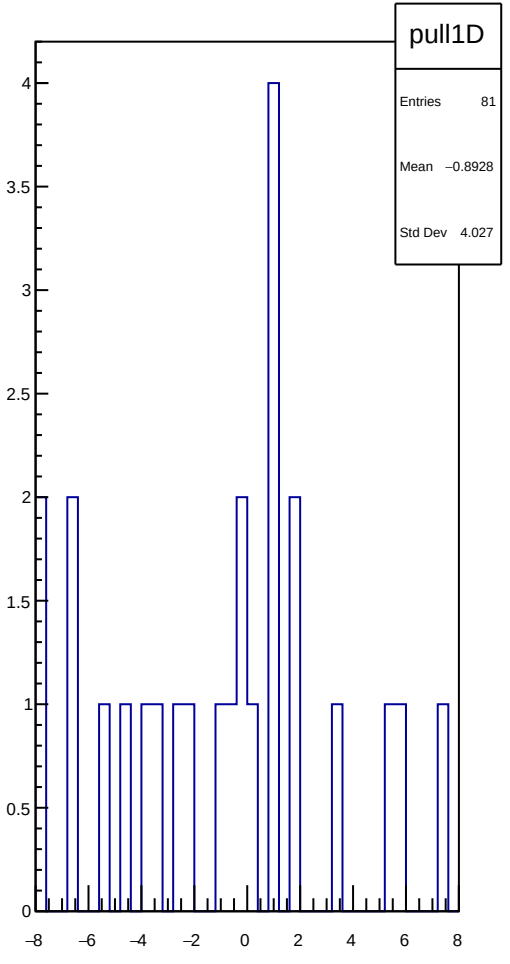

yield_bpm11X_rms vs run
χ² / ndf 1.358e+05 / 80
p0 0.01639 ± 1.368e−05
0.06
0.05
0.04
0.03
0.02
0.01

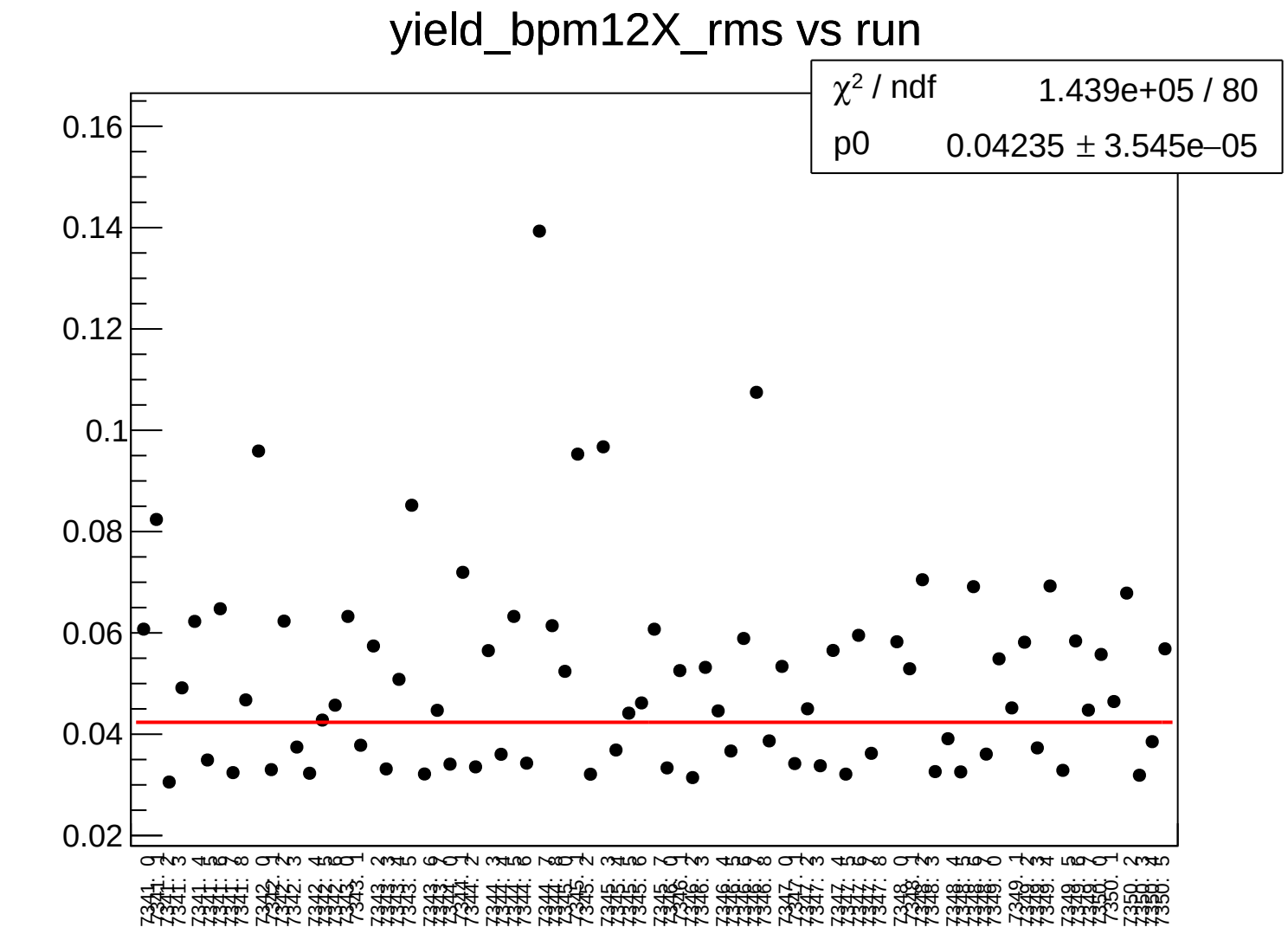

yield_bpm11Y_mean vs run
χ² / ndf 1.057e+06 / 80
p0 −0.1313 ± 1.531e−05
pull
Entries 81
Mean 1775
Std Dev 1733

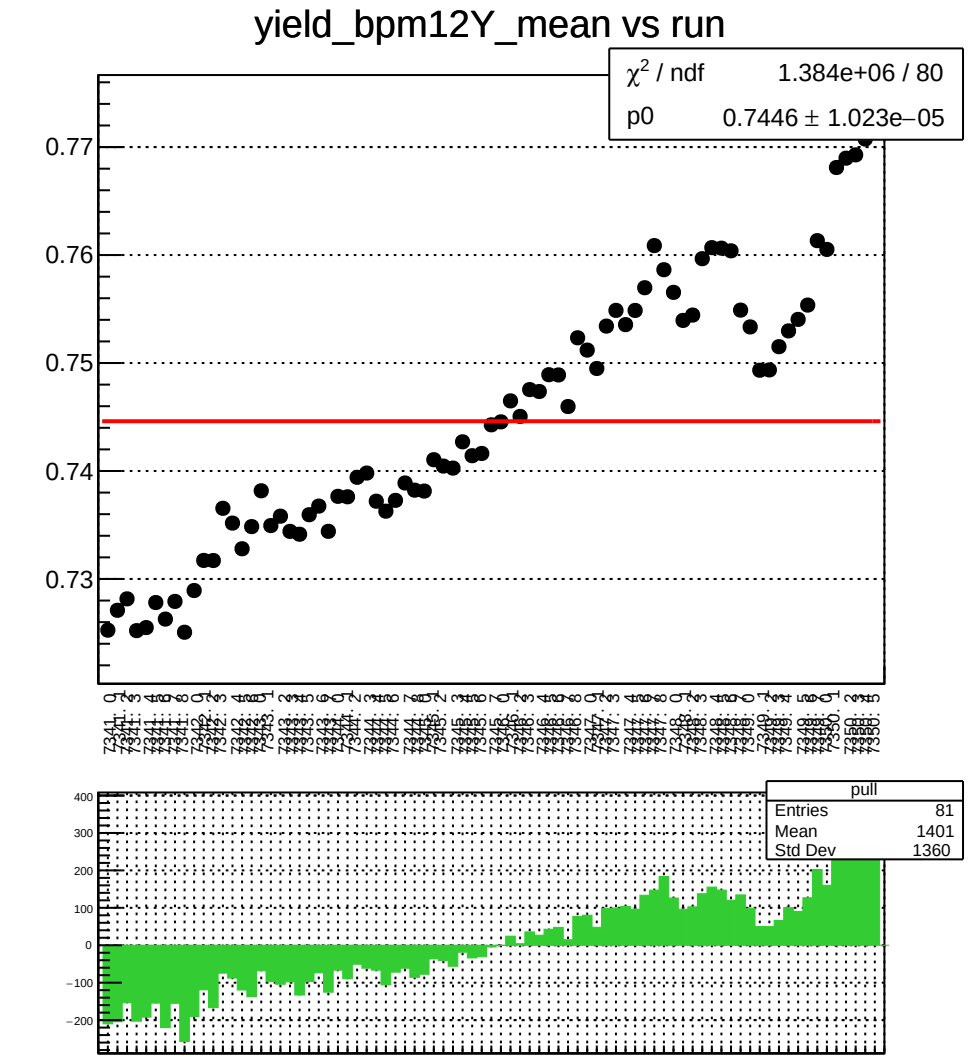

pull1D
Entries 81
Mean 6.282
Std Dev 1.215

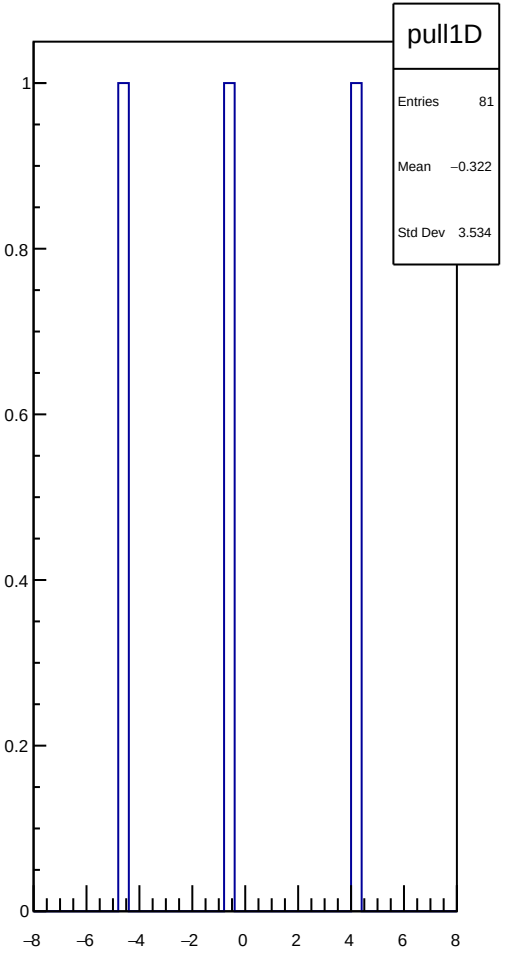

yield_bpm11Y_rms vs run
χ² / ndf 2.072e+04 / 80
p0 0.01348 ± 1.082e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

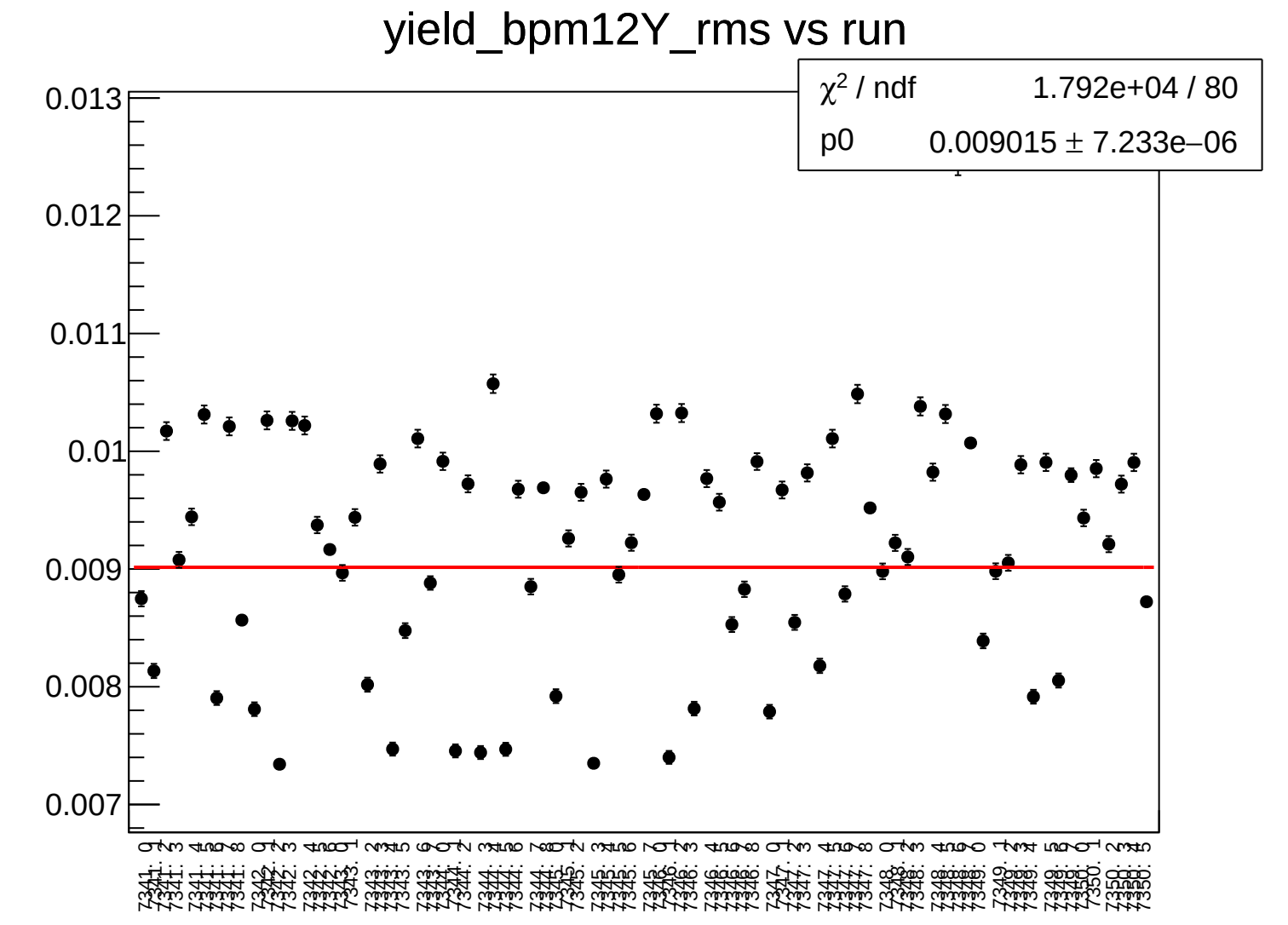

yield_bpm12X_mean vs run
χ² / ndf 9.829e+04 / 80
p0 −1.421 ± 5.014e−05
−1.34
−1.36
−1.38
−1.4
−1.42
−1.44
−1.46
−1.48
−1.5
pull
Entries 81
Mean 7.35
Std Dev 26.58
80
60
40
20
0
−20
−40
−60

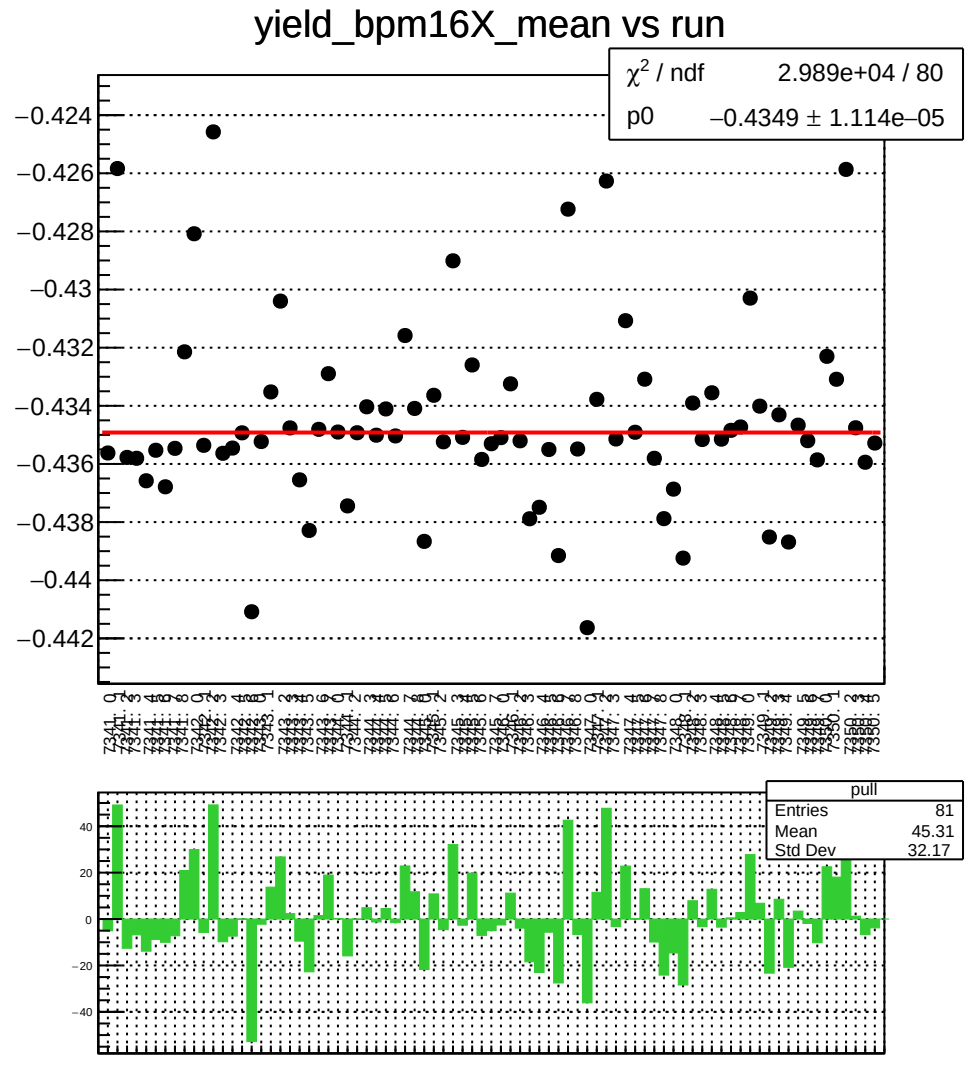

pull1D
Entries 81
Mean −0.8928
Std Dev 4.027
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

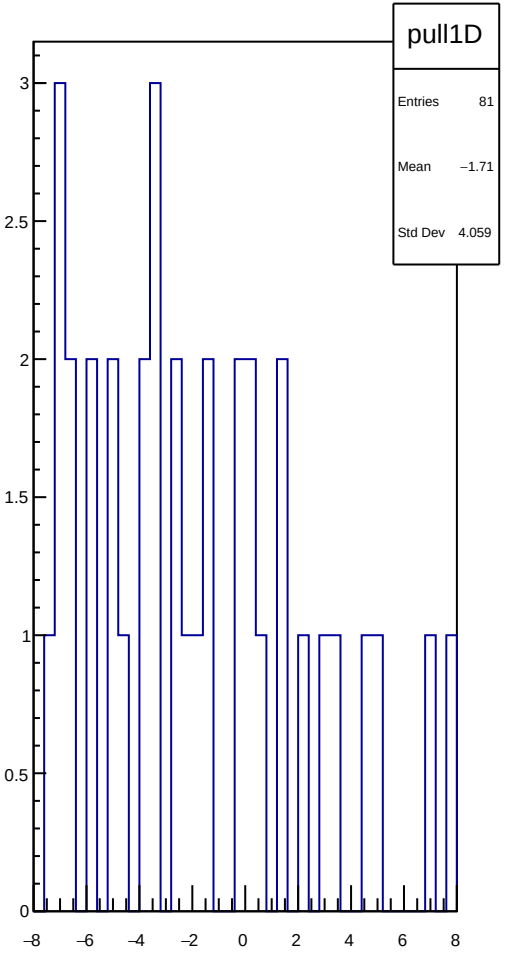

yield_bpm12X_rms vs run
χ² / ndf 1.439e+05 / 80
p0 0.04235 ± 3.545e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

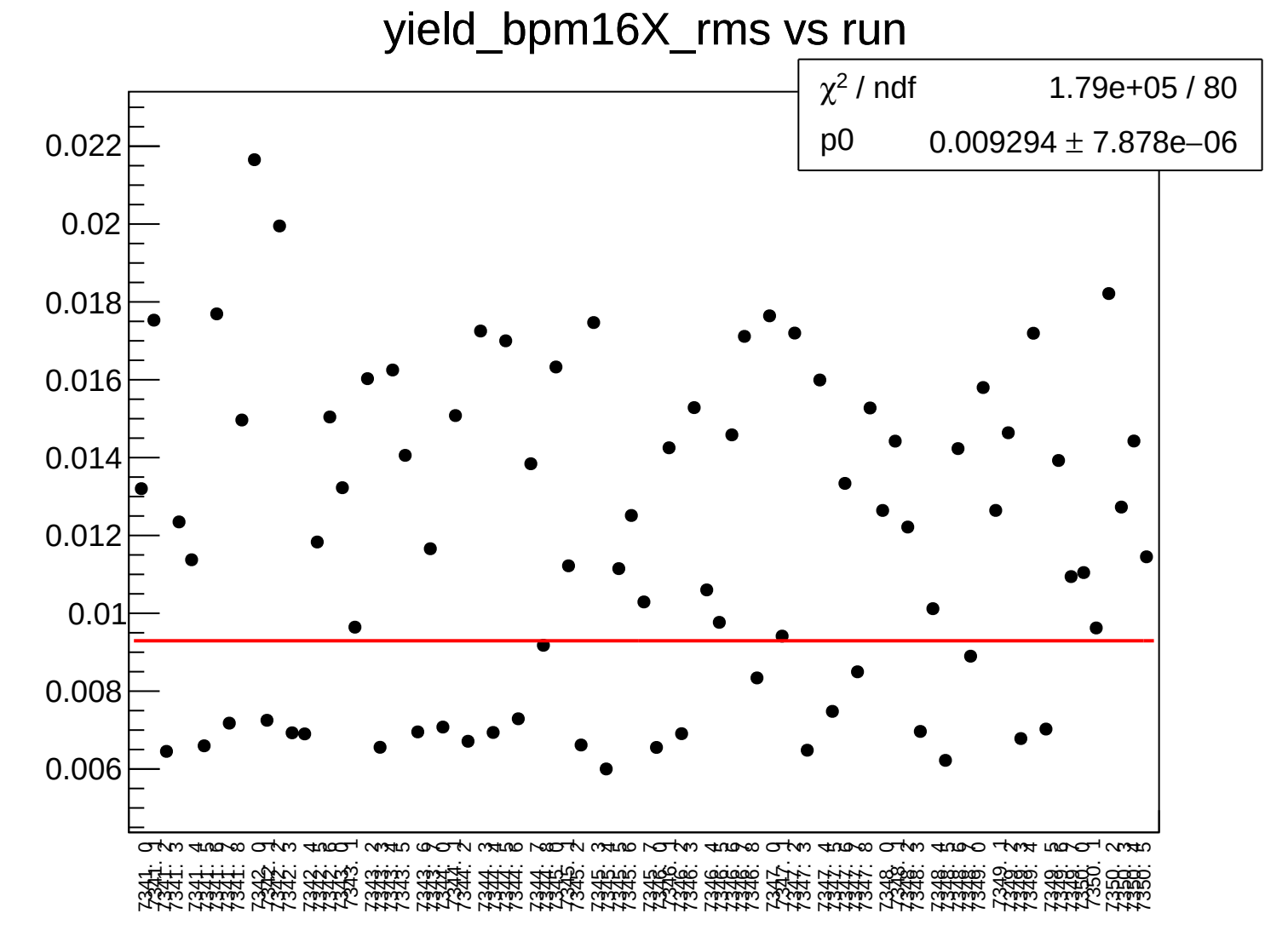

yield_bpm12Y_mean vs run
χ² / ndf 1.384e+06 / 80
p0 0.7446 ± 1.023e−05
0.77
0.76
0.75
0.74
0.73
pull
Entries 81
Mean 1401
Std Dev 1360
400
300
200
100
0
−100
−200

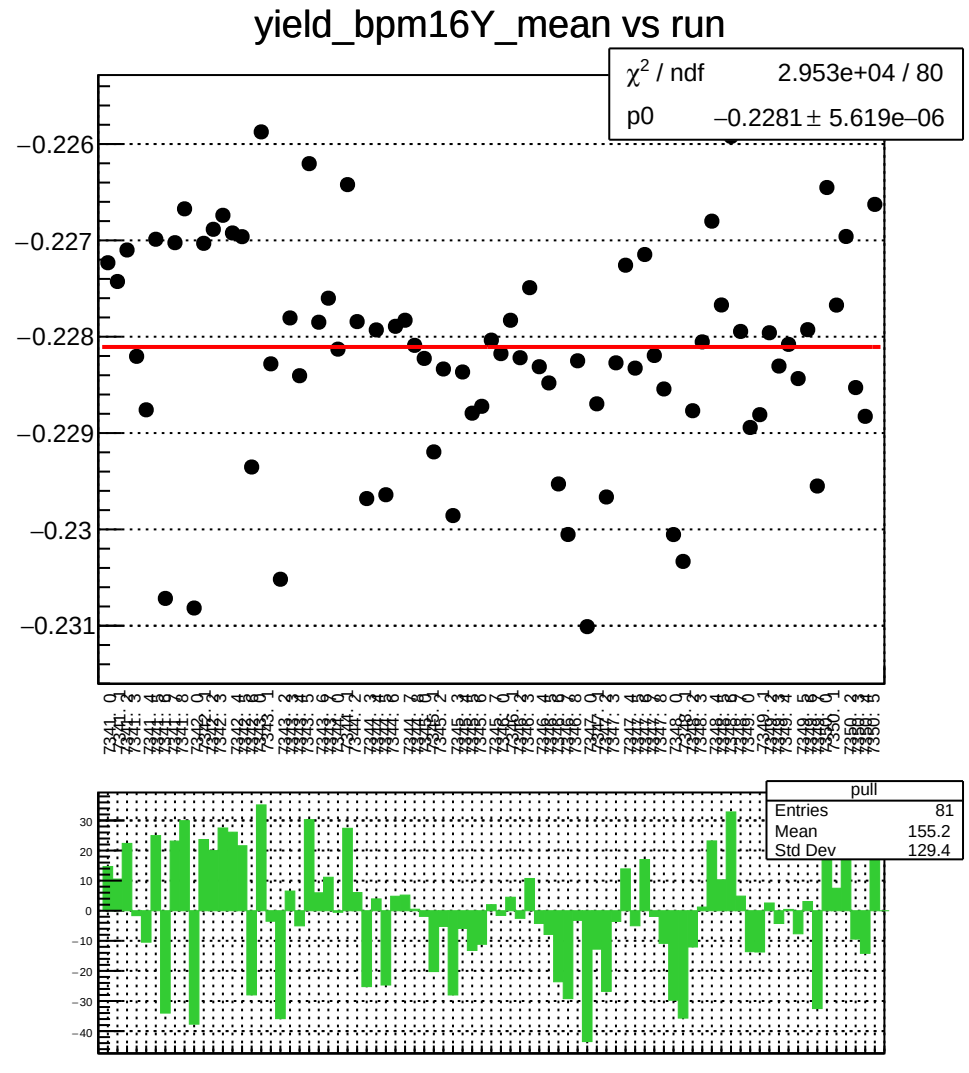

pull1D
Entries 81
Mean −0.322
Std Dev 3.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

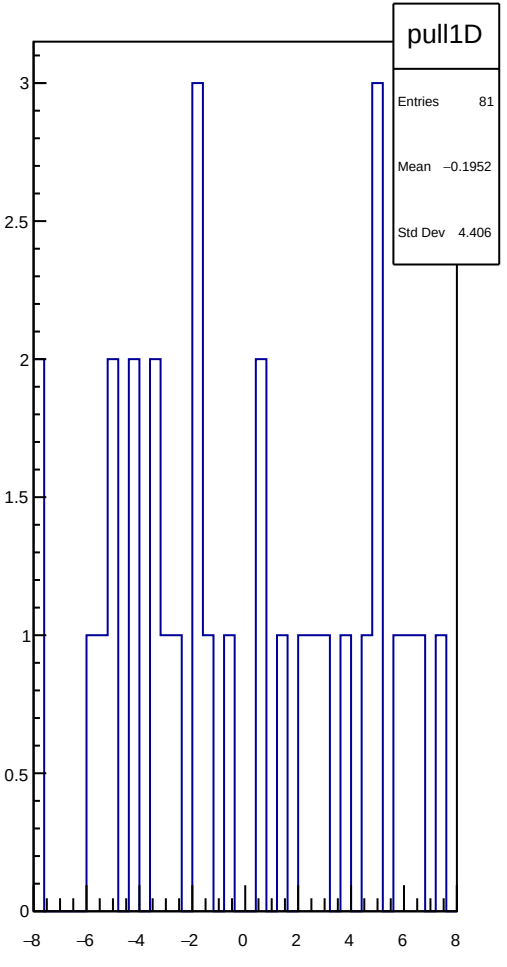

yield_bpm12Y_rms vs run
χ² / ndf 1.792e+04 / 80
p0 0.009015 ± 7.233e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

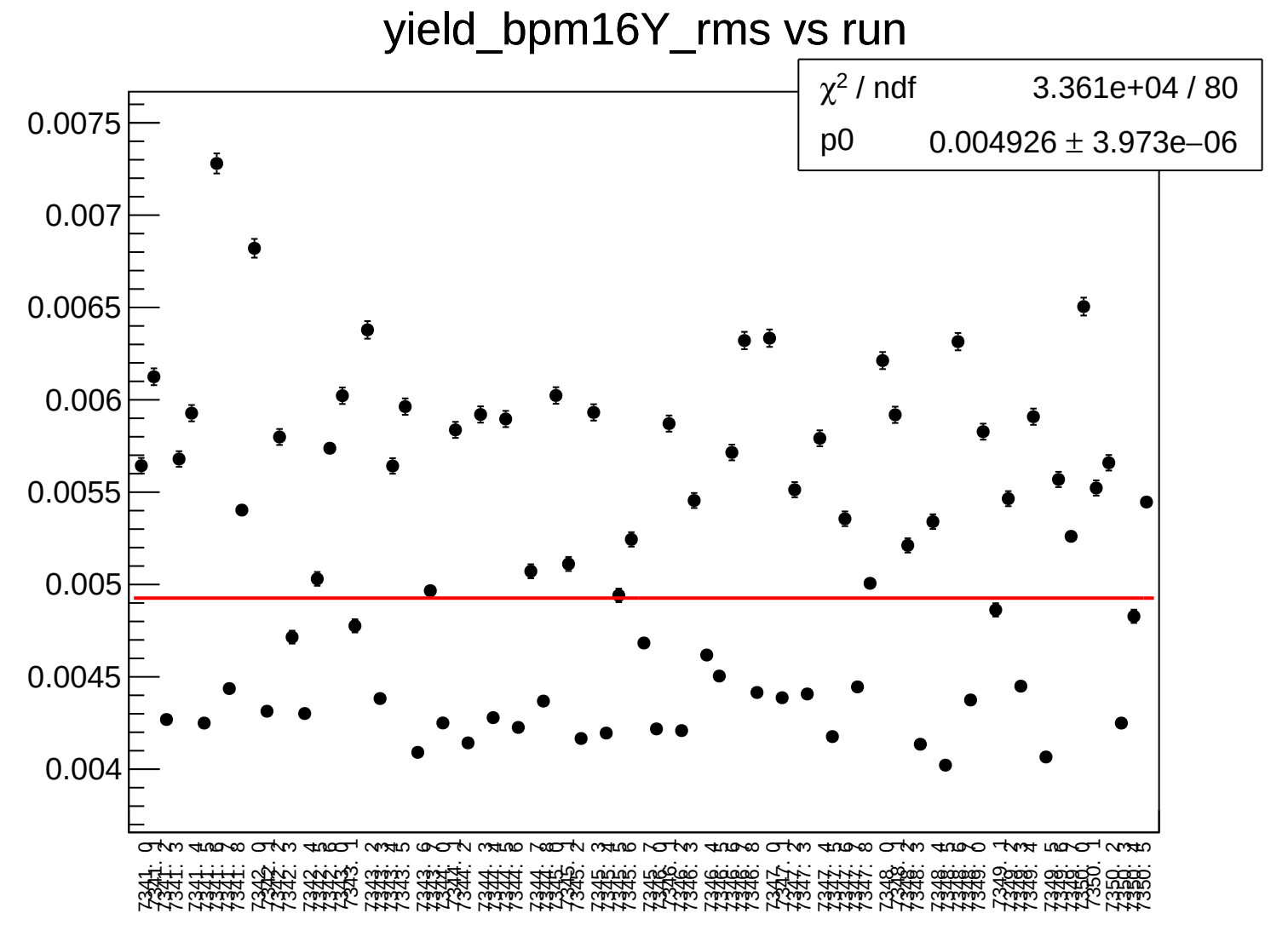

yield_bpm16X_mean vs run
χ² / ndf 2.989e+04 / 80
p0 −0.4349 ± 1.114e−05
−0.424
−0.426
−0.428
−0.43
−0.432
−0.434
−0.436
−0.438
−0.44
−0.442
pull
Entries 81
Mean 45.31
Std Dev 32.17
40
20
0
−20
−40

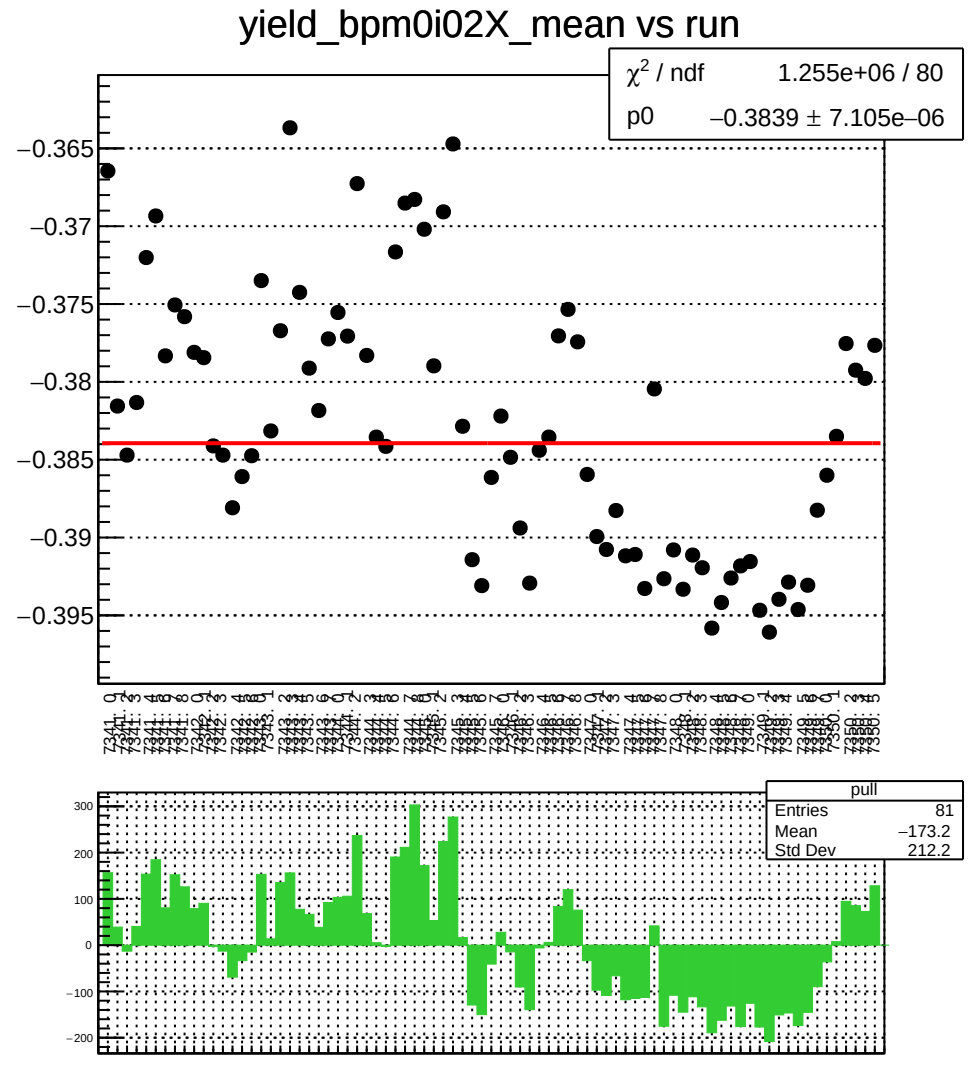

pull1D
Entries 81
Mean −1.71
Std Dev 4.059
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

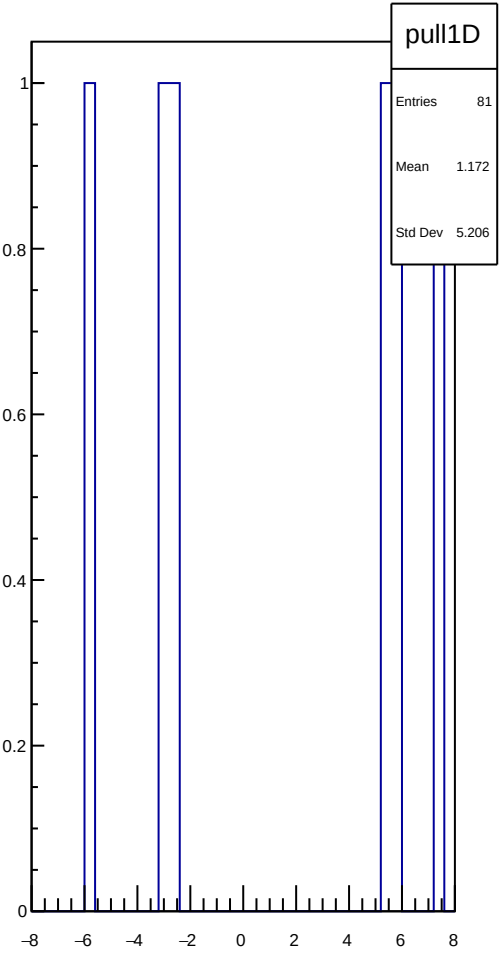

yield_bpm16X_rms vs run
χ² / ndf 1.79e+05 / 80
p0 0.009294 ± 7.878e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

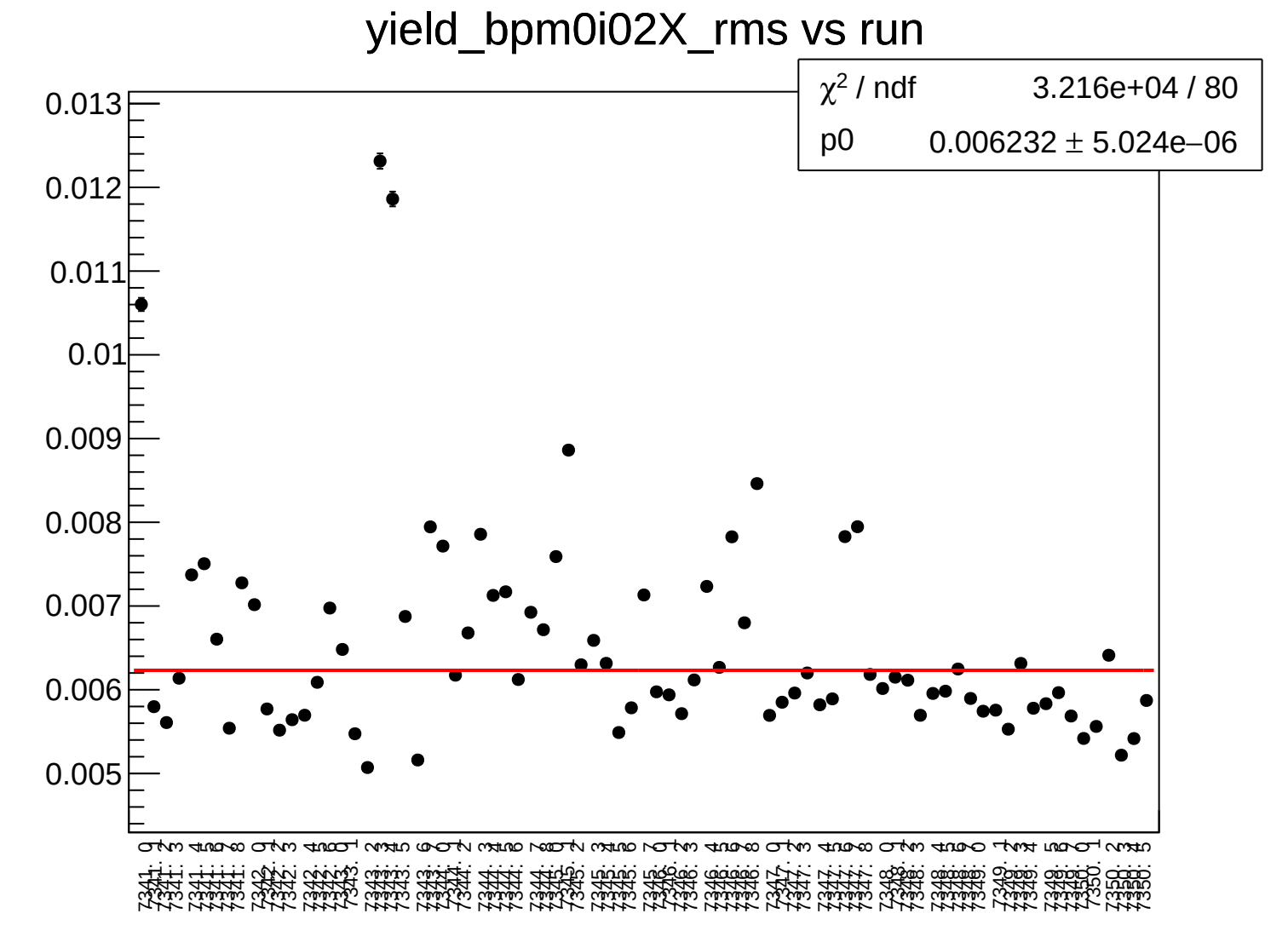

yield_bpm16Y_mean vs run
χ² / ndf 2.953e+04 / 80
p0 −0.2281 ± 5.619e−06
−0.226
−0.227
−0.228
−0.229
−0.23
−0.231
pull
Entries 81
Mean 155.2
Std Dev 129.4
30
20
10
0
−10
−20
−30
−40

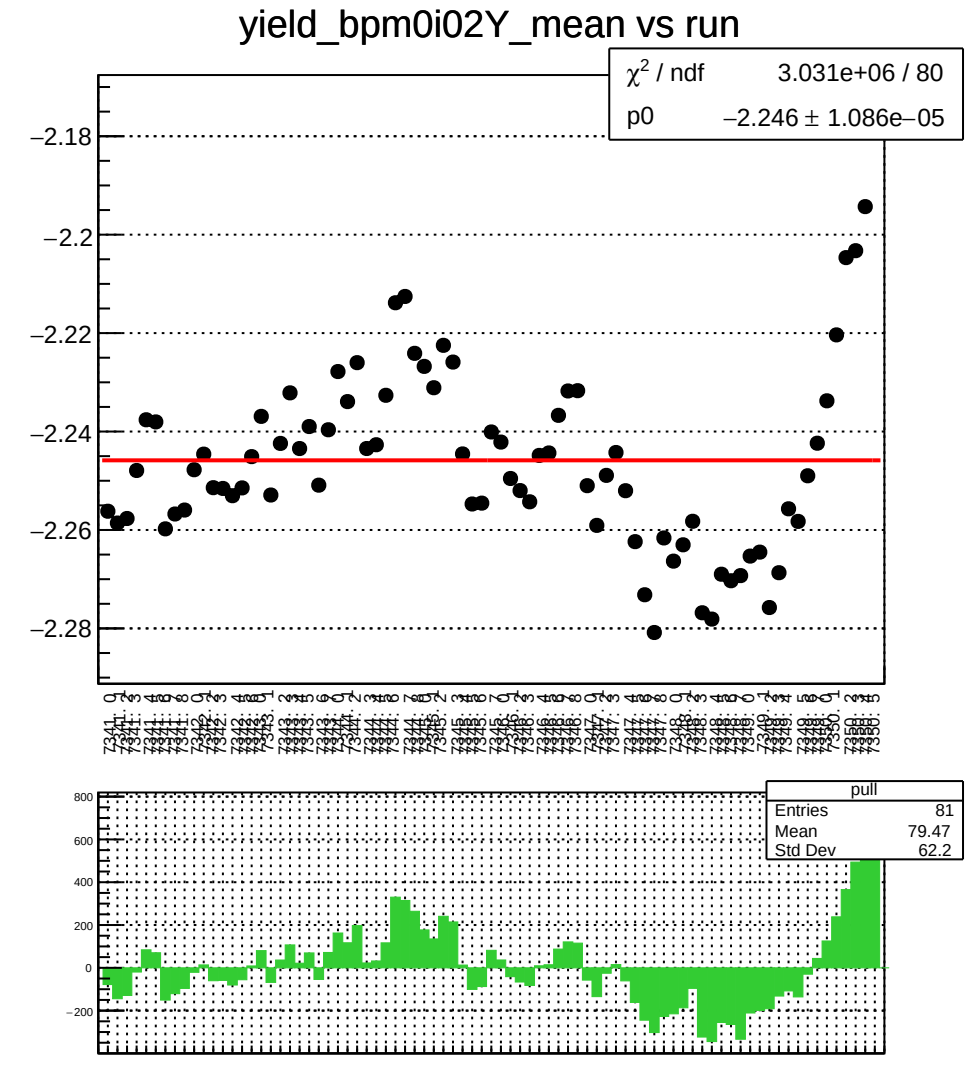

pull1D
Entries 81
Mean −0.1952
Std Dev 4.406
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

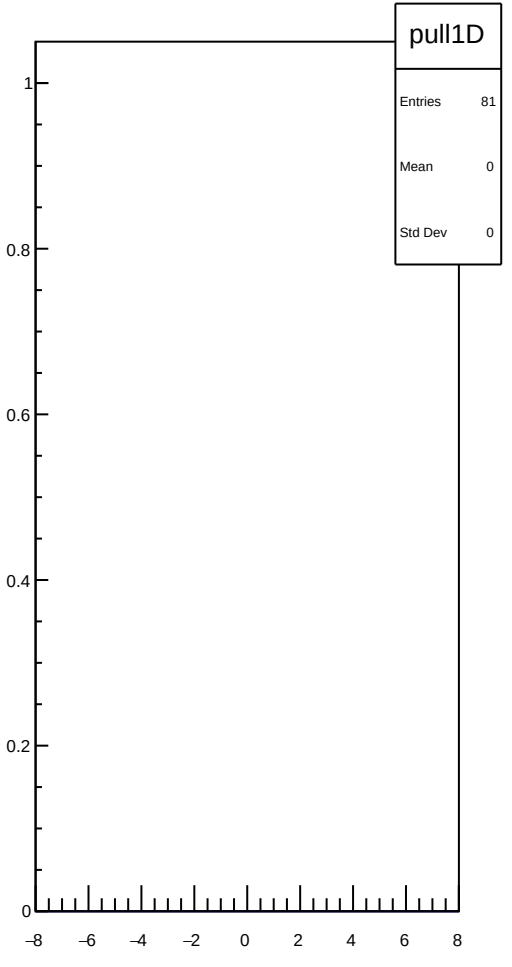

yield_bpm16Y_rms vs run
χ² / ndf 3.361e+04 / 80
p0 0.004926 ± 3.973e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

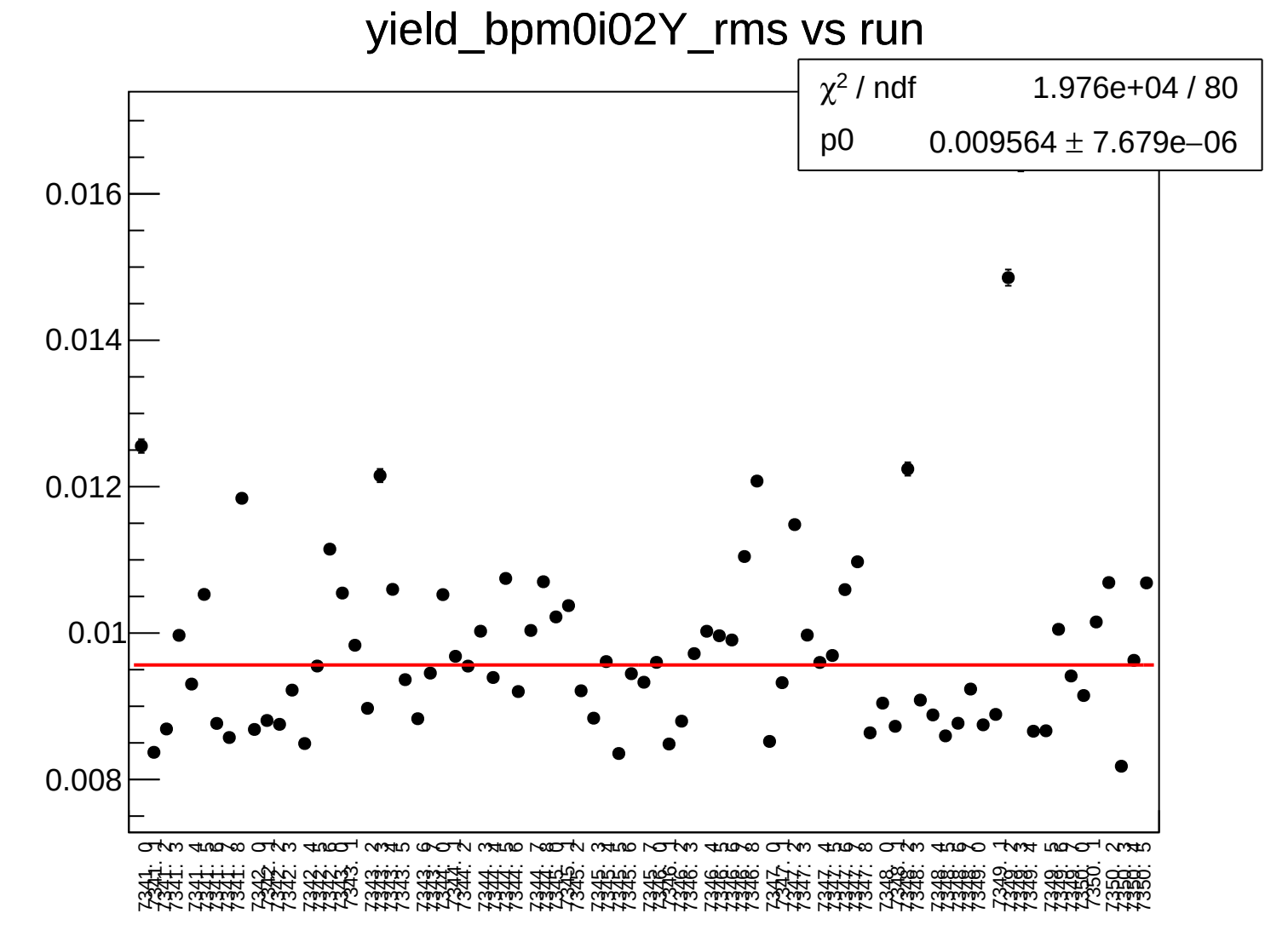

yield_bpm0i02X_mean vs run
χ² / ndf 1.255e+06 / 80
p0 −0.3839 ± 7.105e−06
−0.365
−0.37
−0.375
−0.38
−0.385
−0.39
−0.395
pull
Entries 81
Mean −173.2
Std Dev 212.2
300
200
100
0
−100
−200

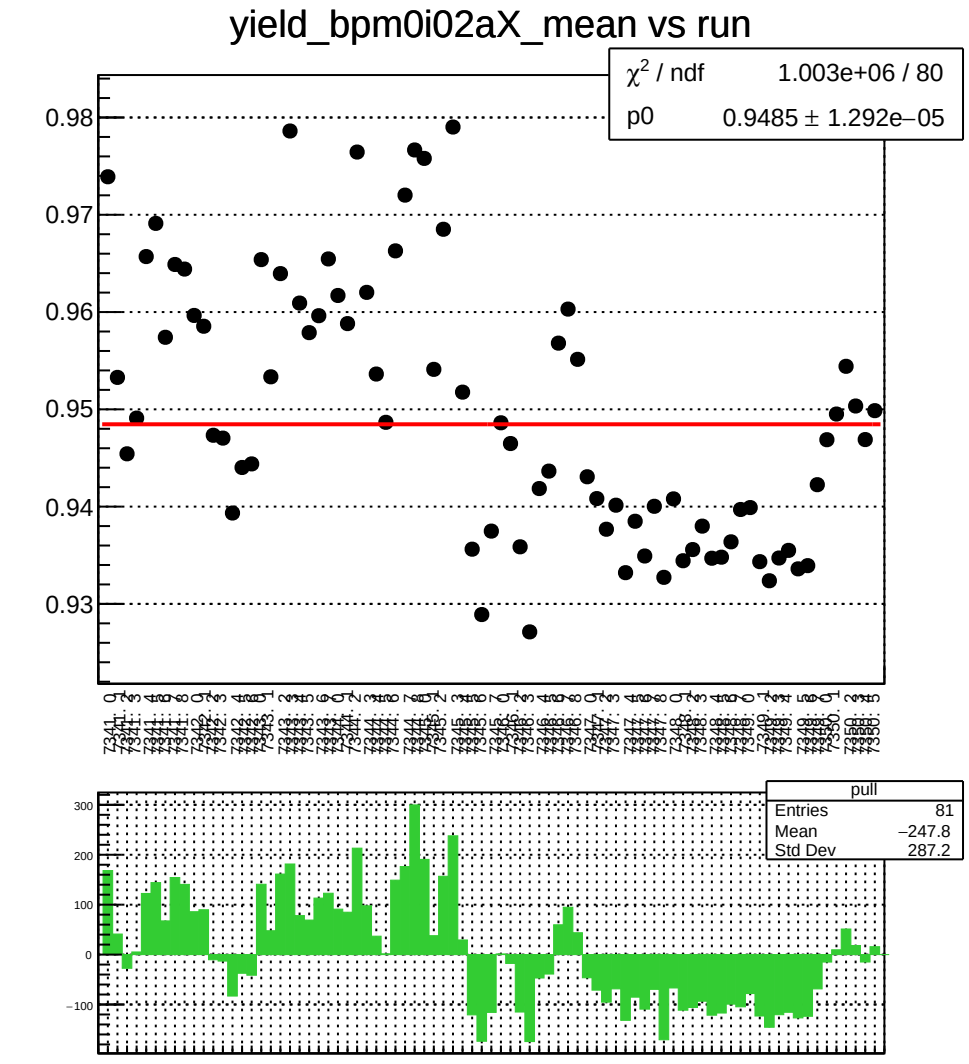

pull1D
Entries 81
Mean 1.172
Std Dev 5.206
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

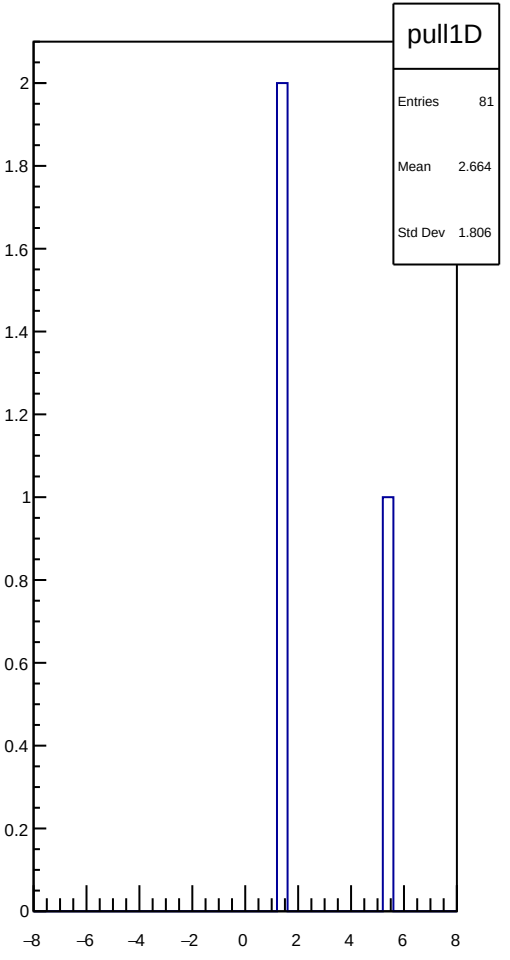

yield_bpm0i02X_rms vs run
χ² / ndf 3.216e+04 / 80
p0 0.006232 ± 5.024e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

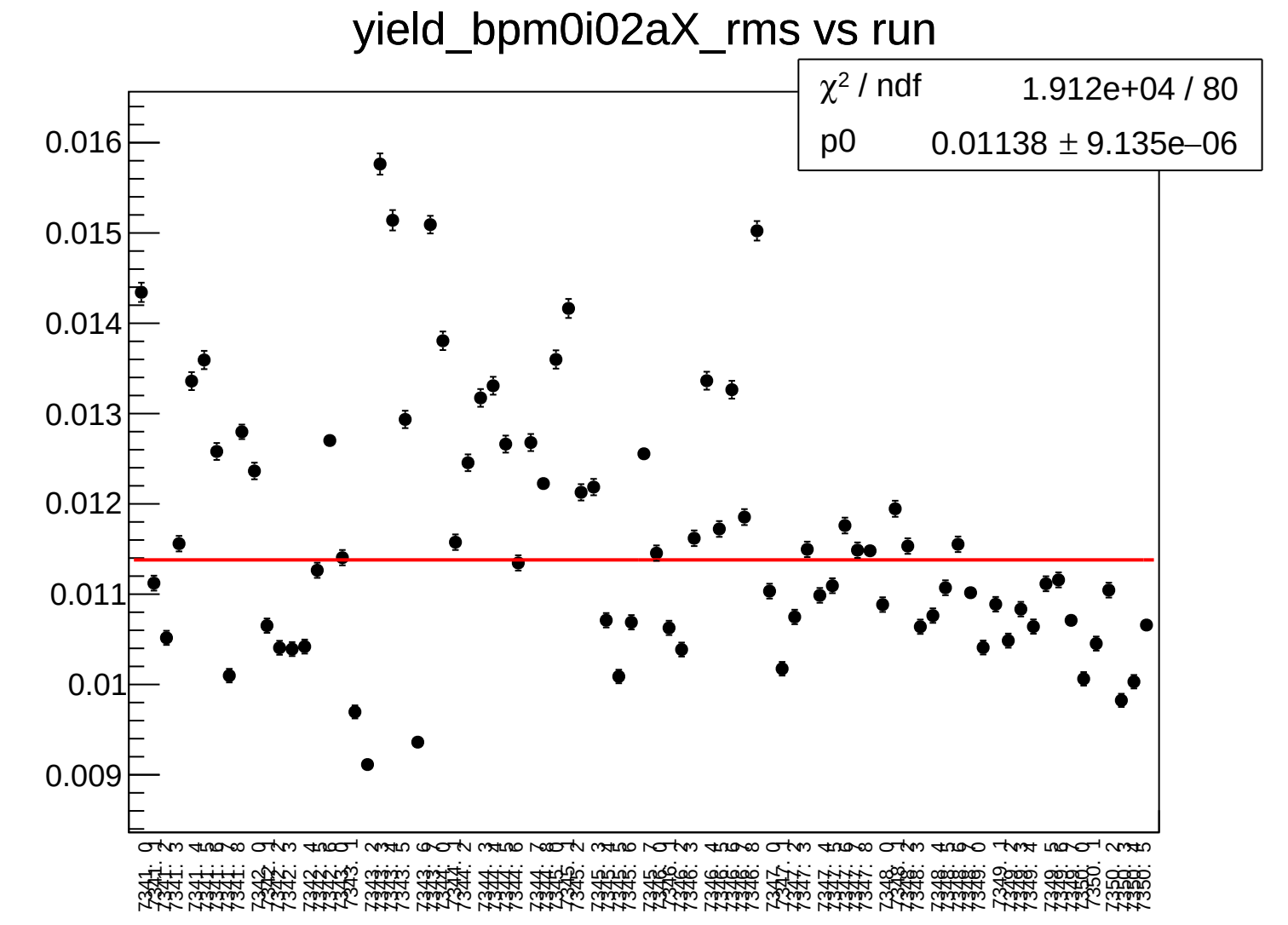

yield_bpm0i02Y_mean vs run
χ² / ndf 3.031e+06 / 80
p0 −2.246 ± 1.086e−05
−2.18
−2.2
−2.22
−2.24
−2.26
−2.28
pull
Entries 81
Mean 79.47
Std Dev 62.2
800
600
400
200
0
−200

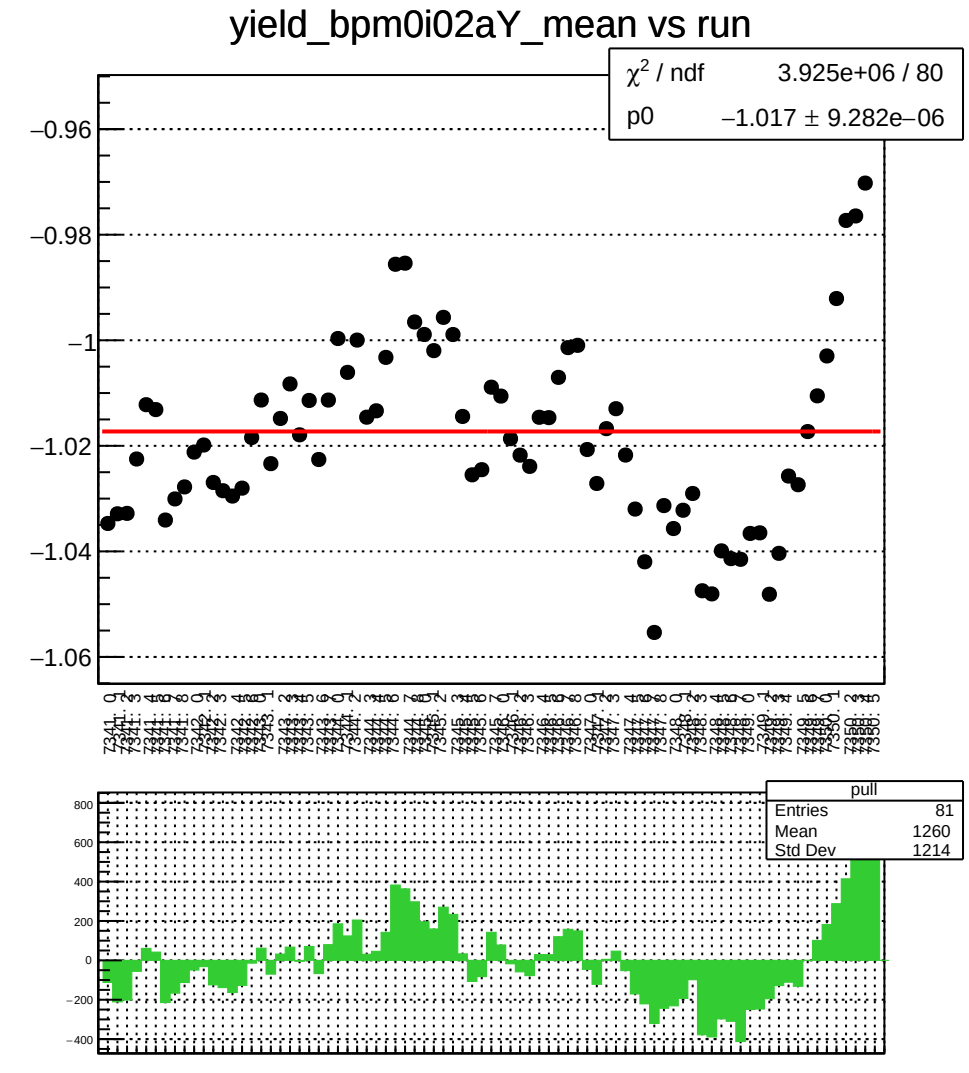

pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

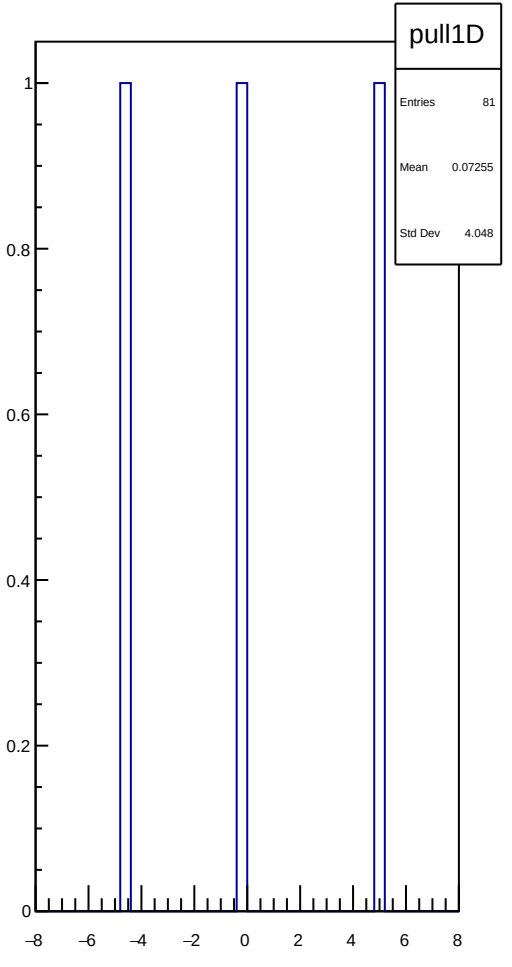

yield_bpm0i02Y_rms vs run
χ² / ndf 1.976e+04 / 80
p0 0.009564 ± 7.679e−06
0.016
0.014
0.012
0.01
0.008

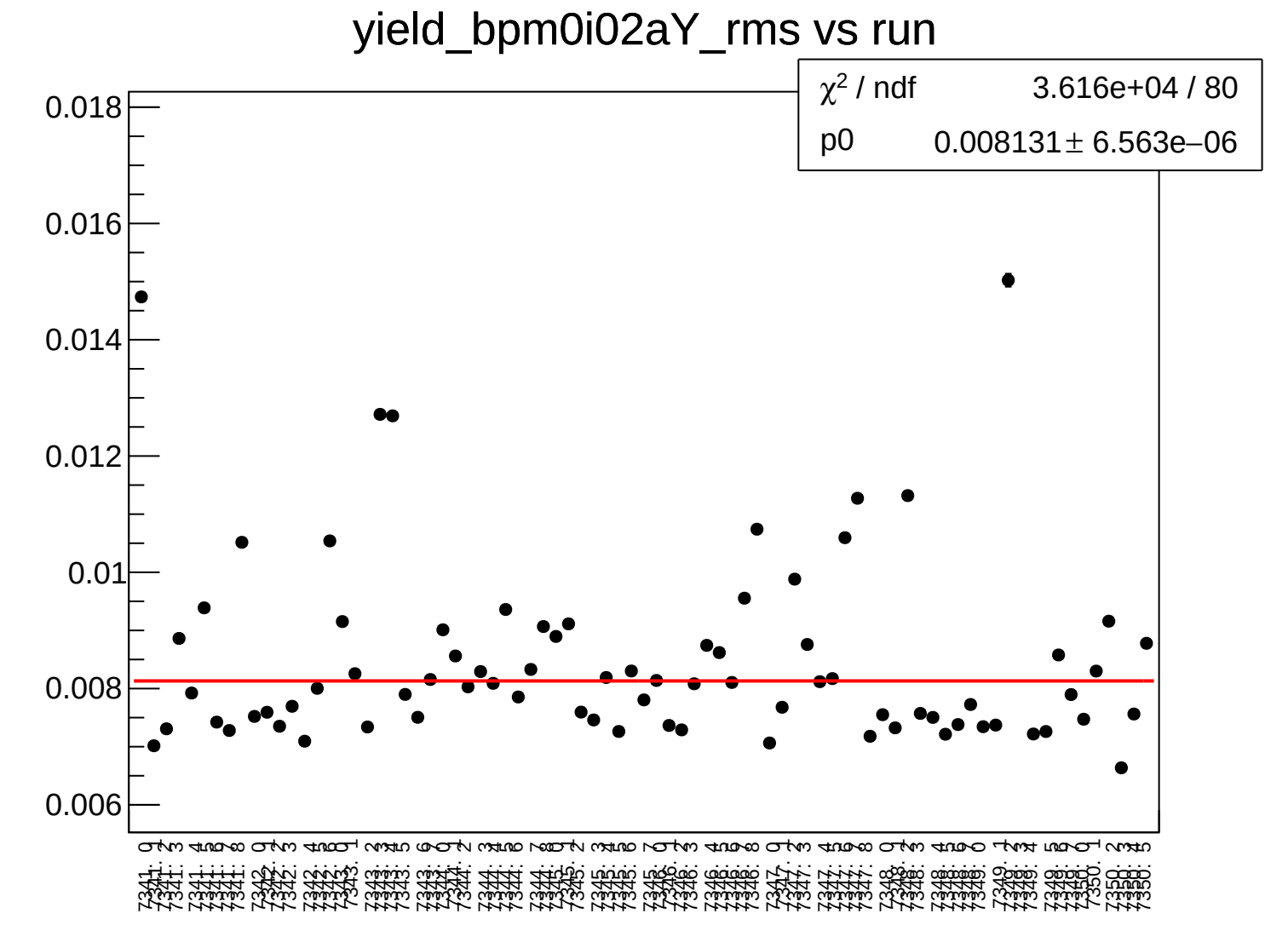

yield_bpm0i02aX_mean vs run
χ² / ndf 1.003e+06 / 80
p0 0.9485 ± 1.292e−05
0.98
0.97
0.96
0.95
0.94
0.93
pull
Entries 81
Mean −247.8
Std Dev 287.2
300
200
100
0
−100

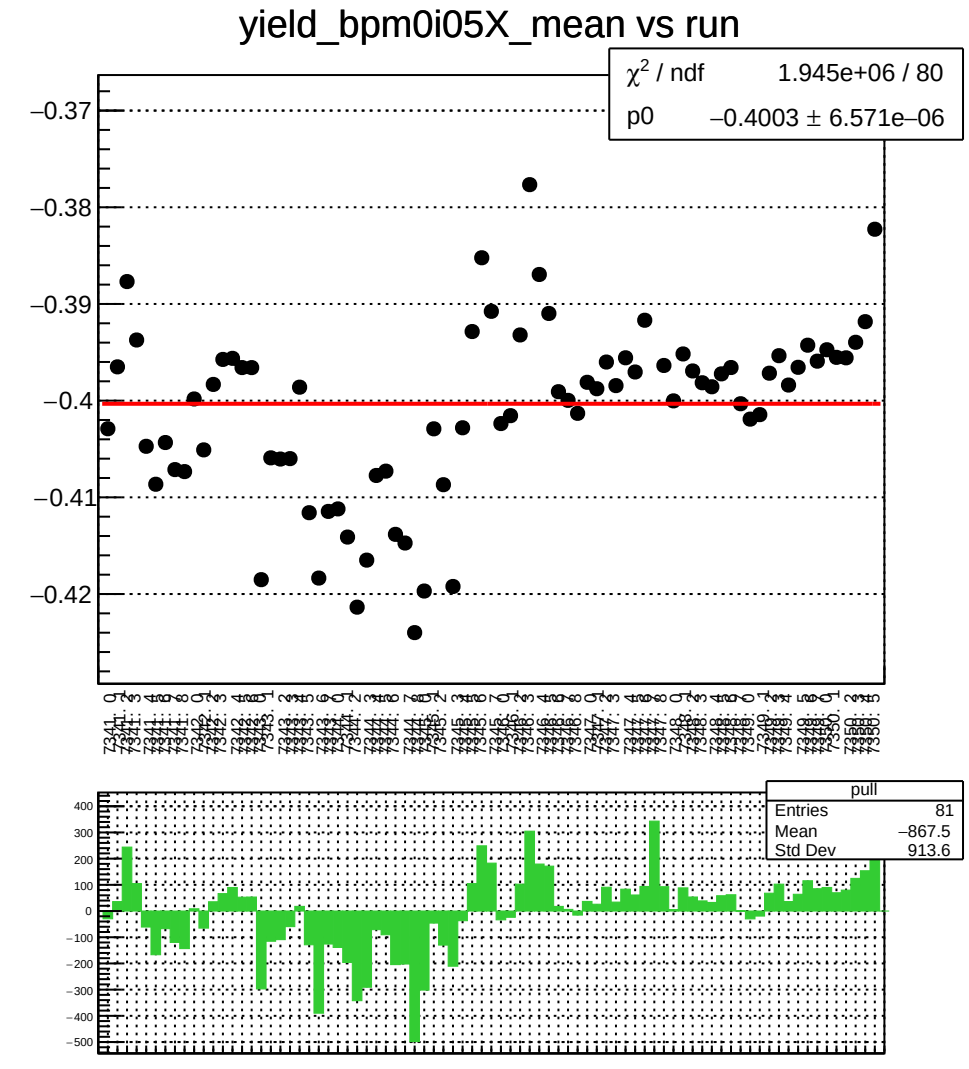

pull1D
Entries 81
Mean 2.664
Std Dev 1.806
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

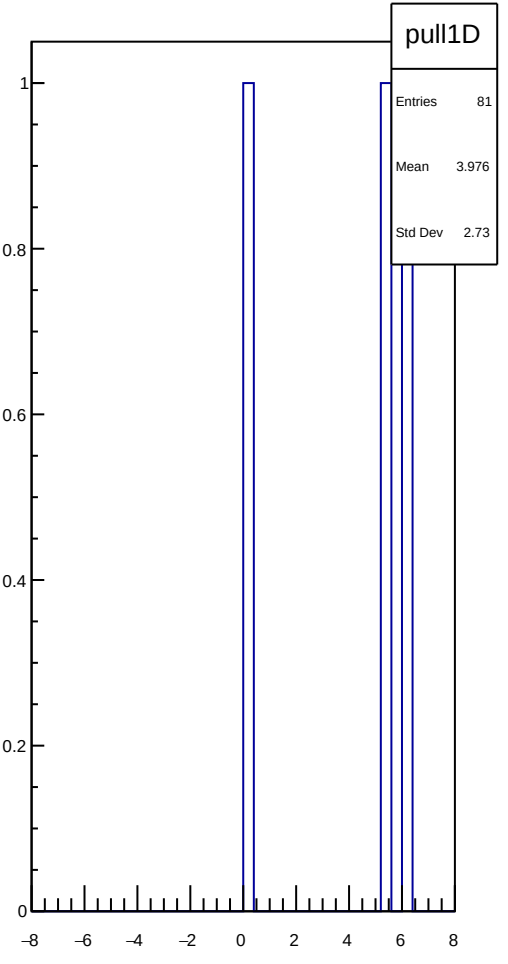

yield_bpm0i02aX_rms vs run
χ² / ndf 1.912e+04 / 80
p0 0.01138 ± 9.135e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

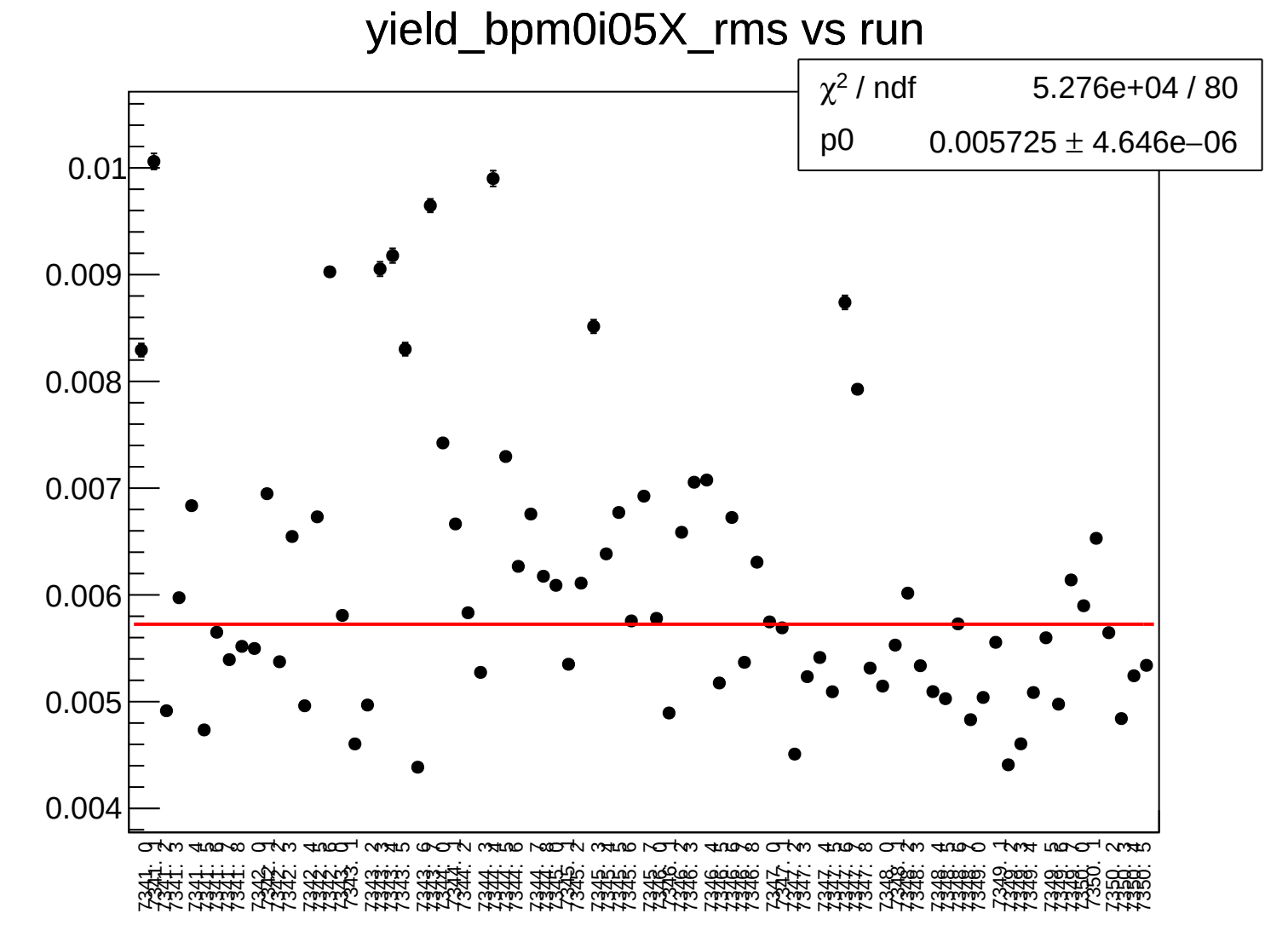

yield_bpm0i02aY_mean vs run
χ² / ndf 3.925e+06 / 80
p0 −1.017 ± 9.282e−06
−0.96
−0.98
−1
−1.02
−1.04
−1.06
pull
Entries 81
Mean 1260
Std Dev 1214
800
600
400
200
0
−200
−400

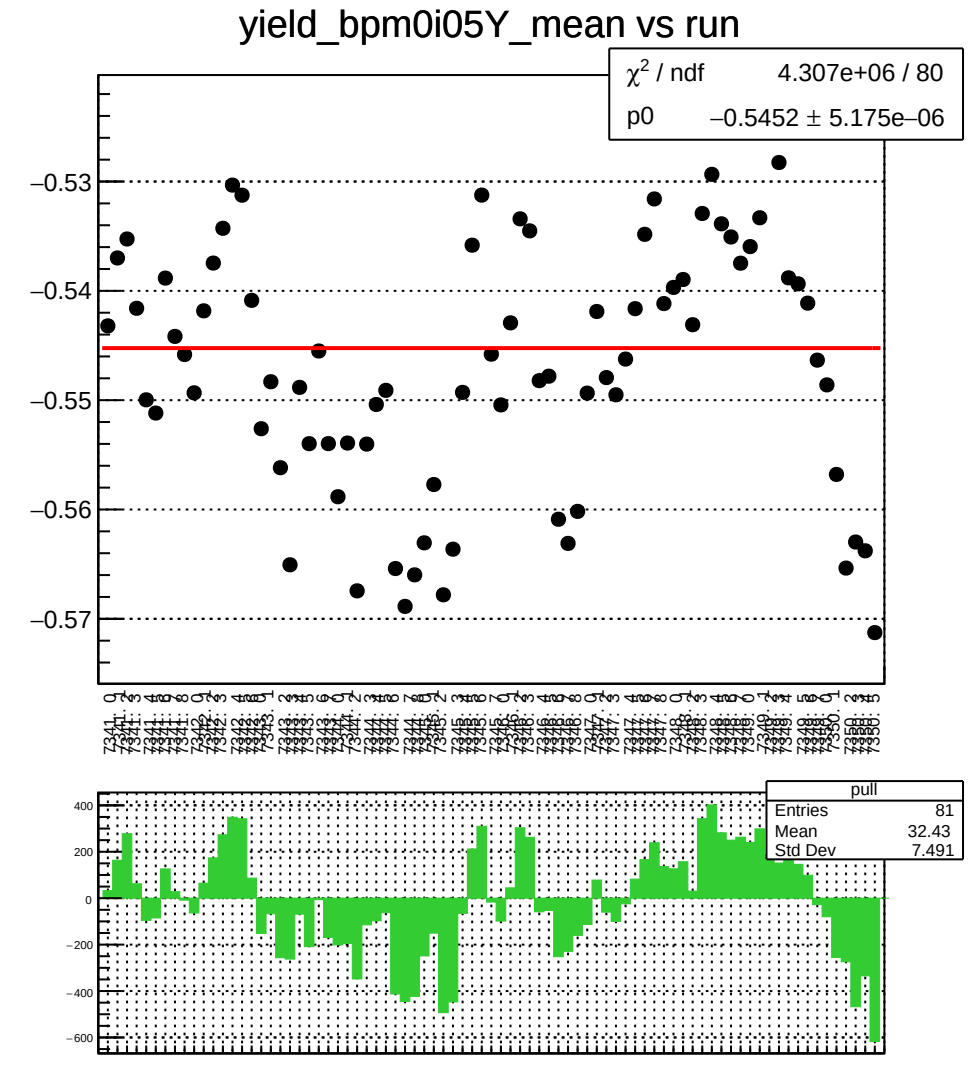

pull1D
Entries 81
Mean 0.07255
Std Dev 4.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

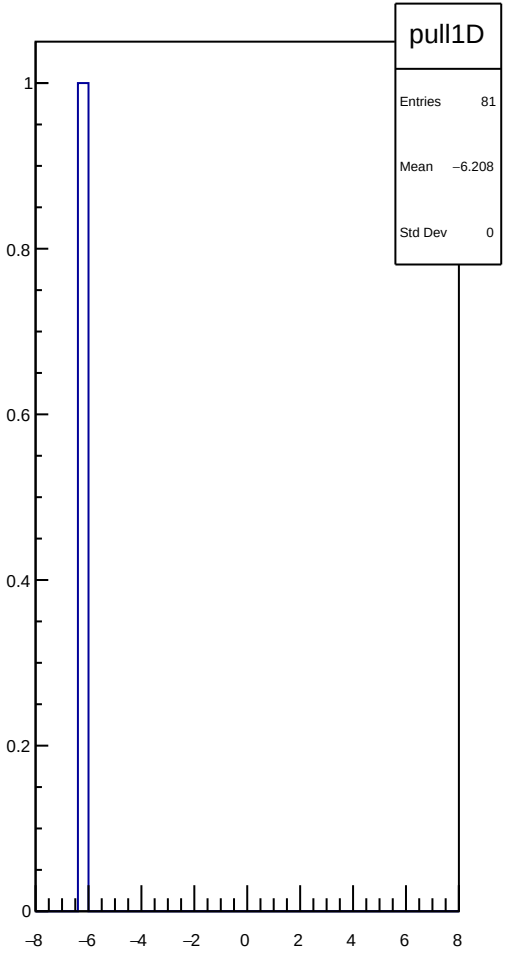

yield_bpm0i02aY_rms vs run
χ² / ndf 3.616e+04 / 80
p0 0.008131 ± 6.563e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

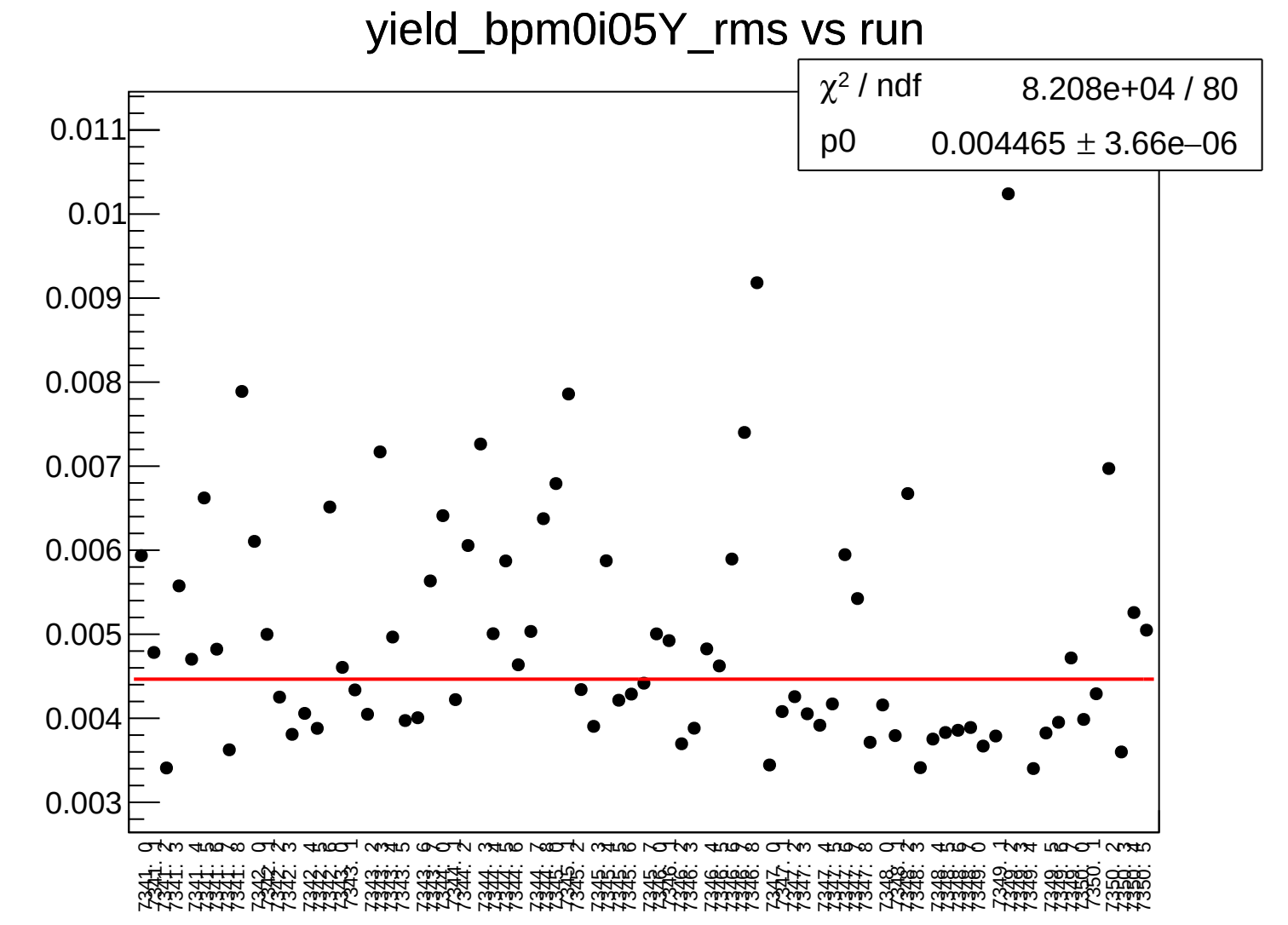

yield_bpm0i05X_mean vs run
χ² / ndf 1.945e+06 / 80
p0 −0.4003 ± 6.571e−06
−0.37
−0.38
−0.39
−0.4
−0.41
−0.42
pull
Entries 81
Mean −867.5
Std Dev 913.6
400
300
200
100
0
−100
−200
−300
−400
−500

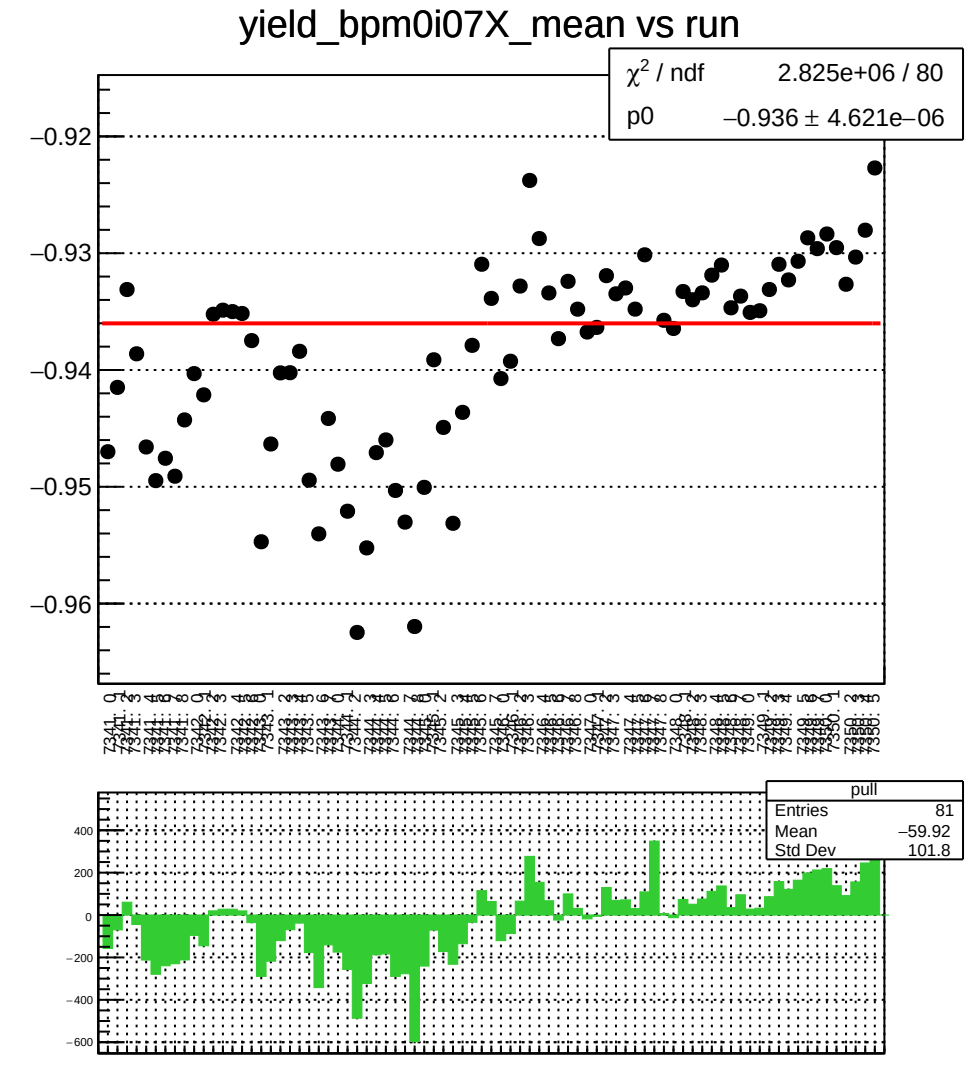

pull1D
Entries 81
Mean 3.976
Std Dev 2.73
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

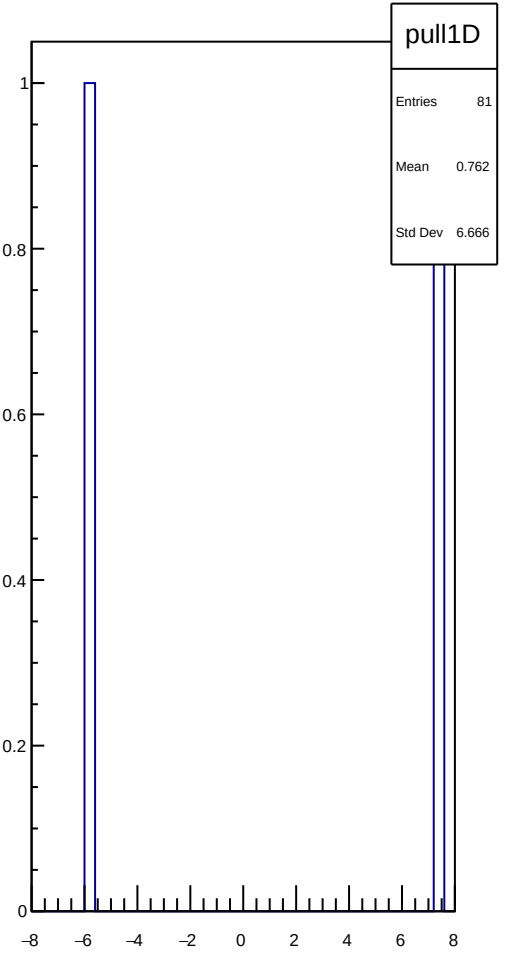

yield_bpm0i05X_rms vs run
χ^2 / ndf 5.276e+04 / 80
p0 0.005725 ± 4.646e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

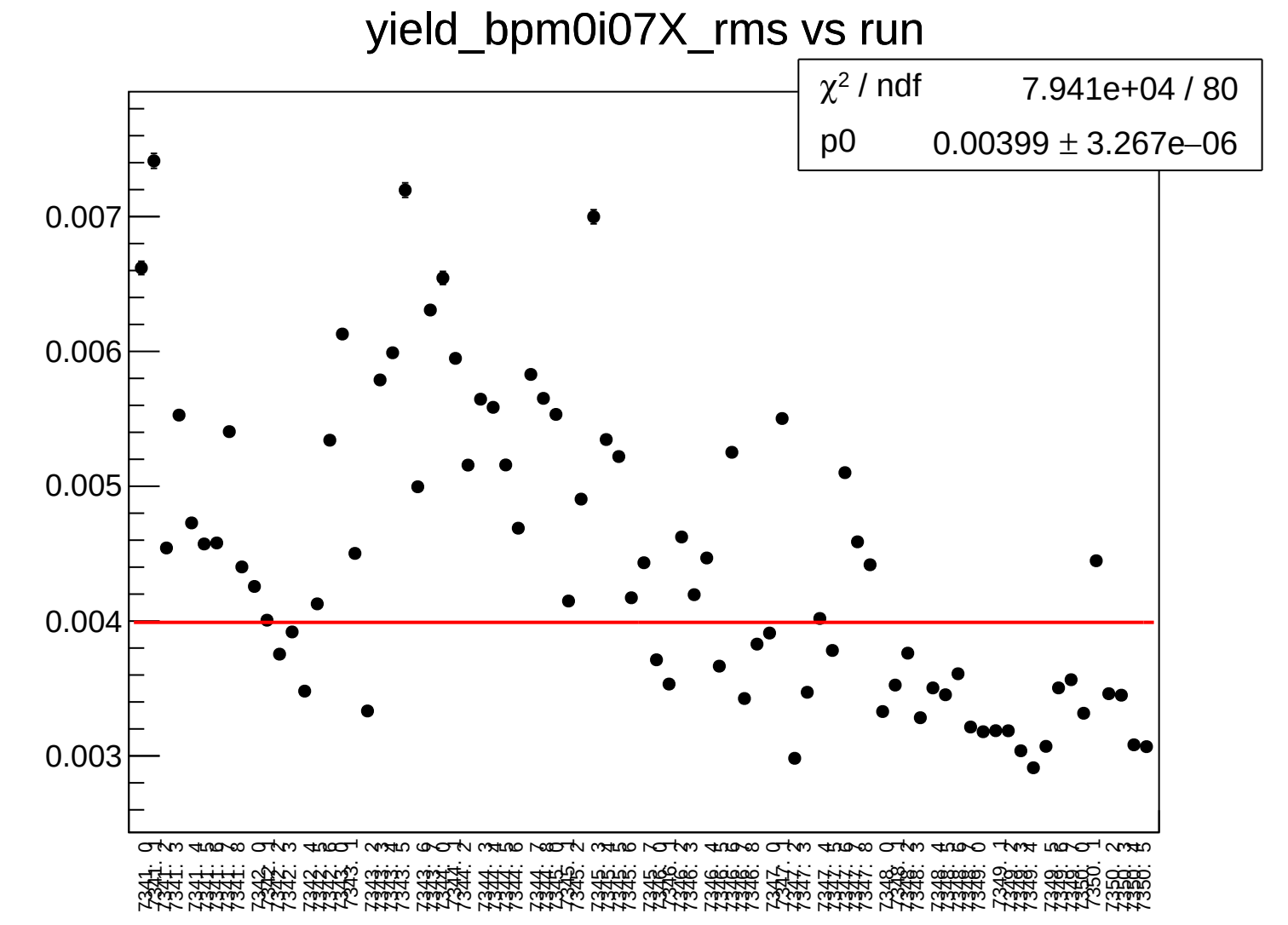

yield_bpm0i05Y_mean vs run
χ² / ndf 4.307e+06 / 80
p0 −0.5452 ± 5.175e−06
−0.53
−0.54
−0.55
−0.56
−0.57
pull
Entries 81
Mean 32.43
Std Dev 7.491
400
200
0
−200
−400
−600

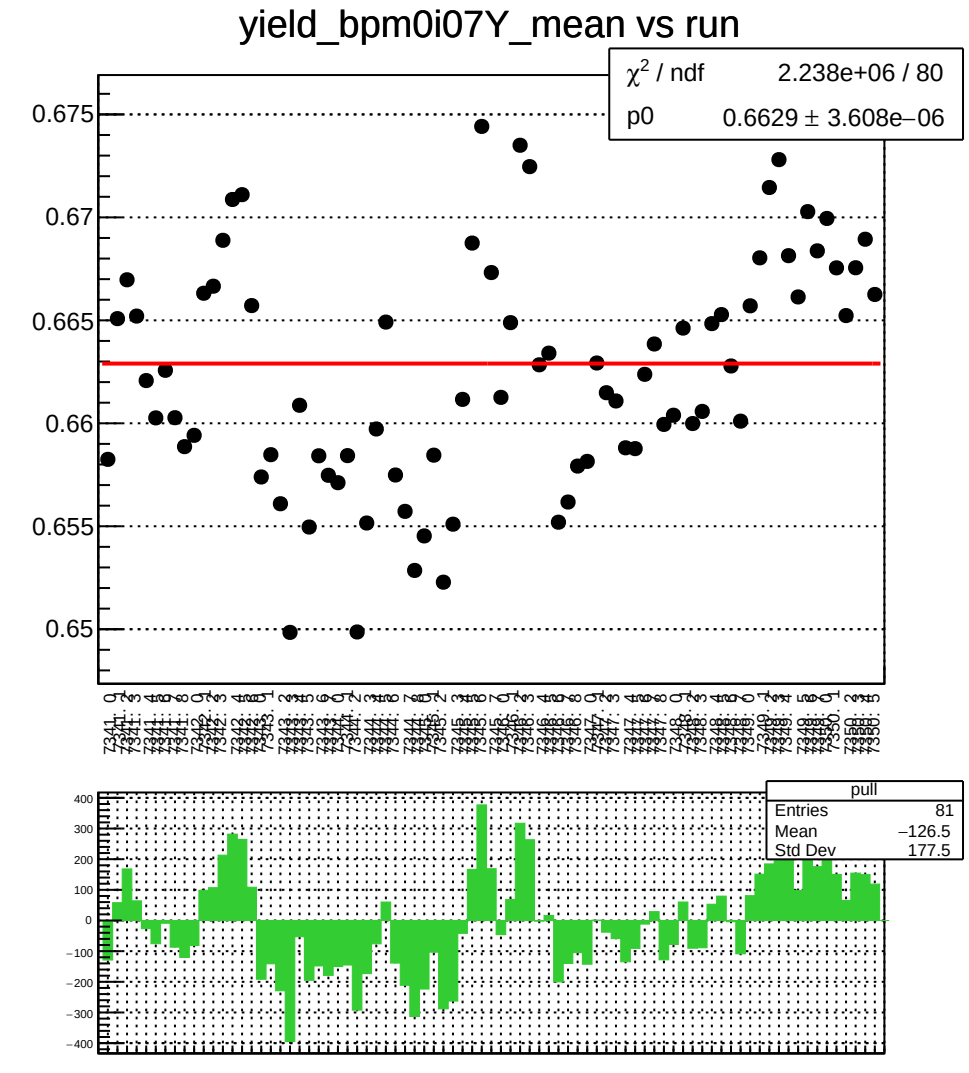

pull1D
Entries 81
Mean −6.208
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

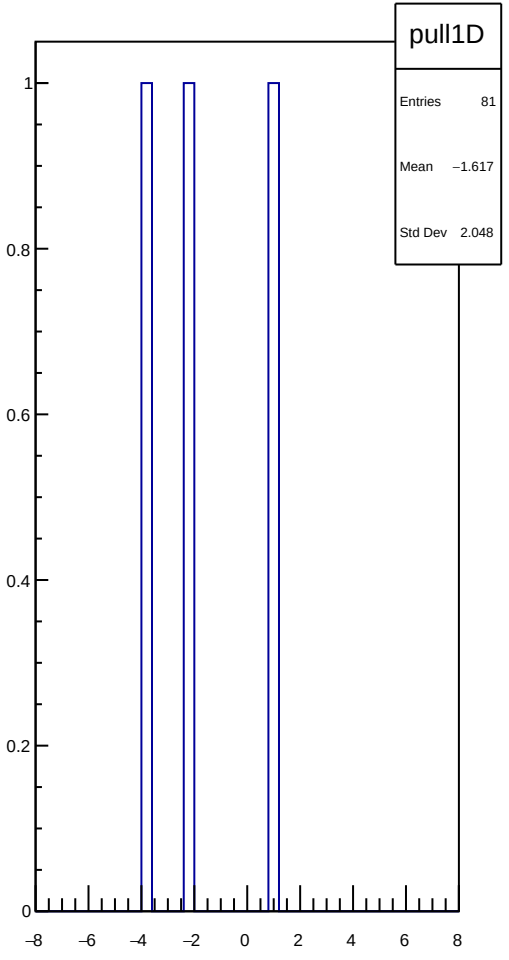

yield_bpm0i05Y_rms vs run
χ² / ndf 8.208e+04 / 80
p0 0.004465 ± 3.66e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

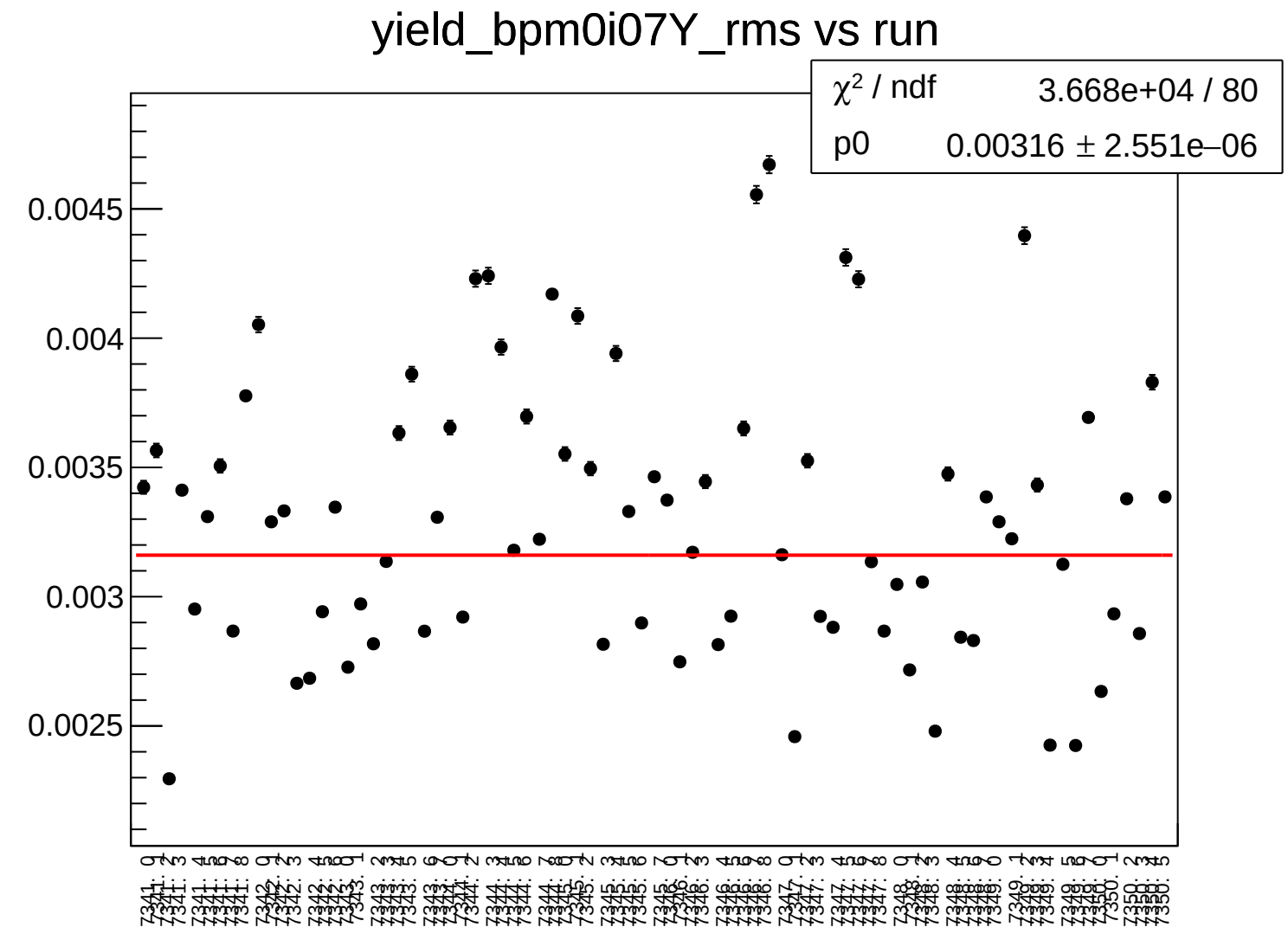

yield_bpm0i07X_mean vs run
χ² / ndf 2.825e+06 / 80
p0 −0.936 ± 4.621e−06
−0.92
−0.93
−0.94
−0.95
−0.96
pull
Entries 81
Mean −59.92
Std Dev 101.8
400
200
0
−200
−400
−600

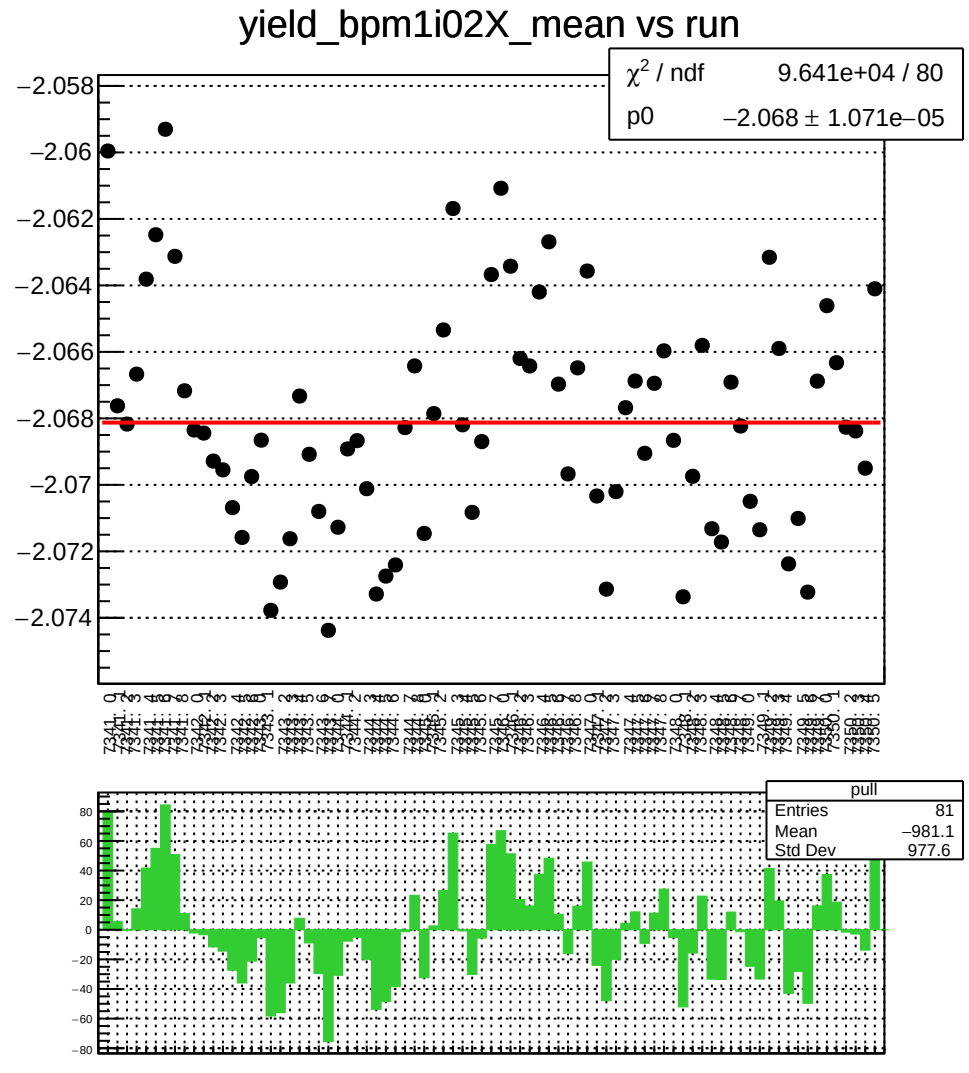

pull1D
Entries 81
Mean 0.762
Std Dev 6.666
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

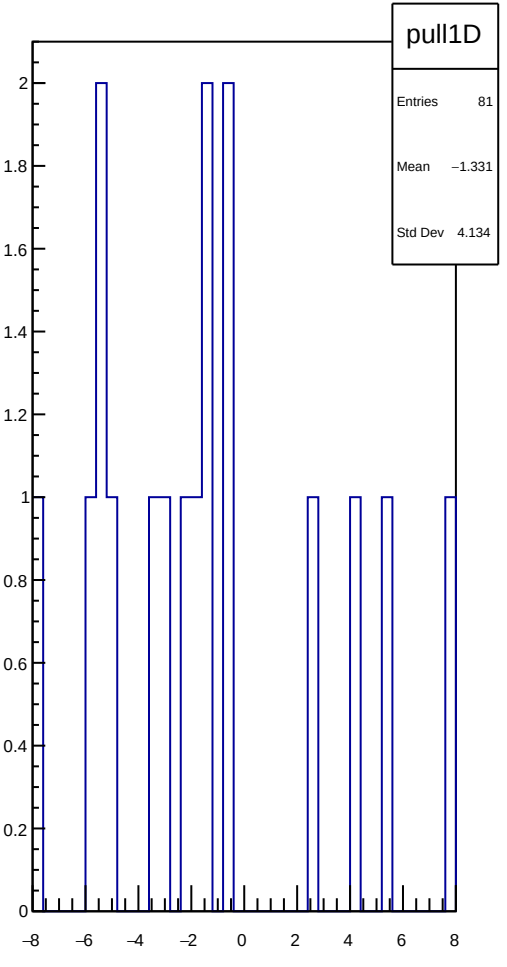

yield_bpm0i07X_rms vs run
χ² / ndf 7.941e+04 / 80
p0 0.00399 ± 3.267e–06
0.007
0.006
0.005
0.004
0.003

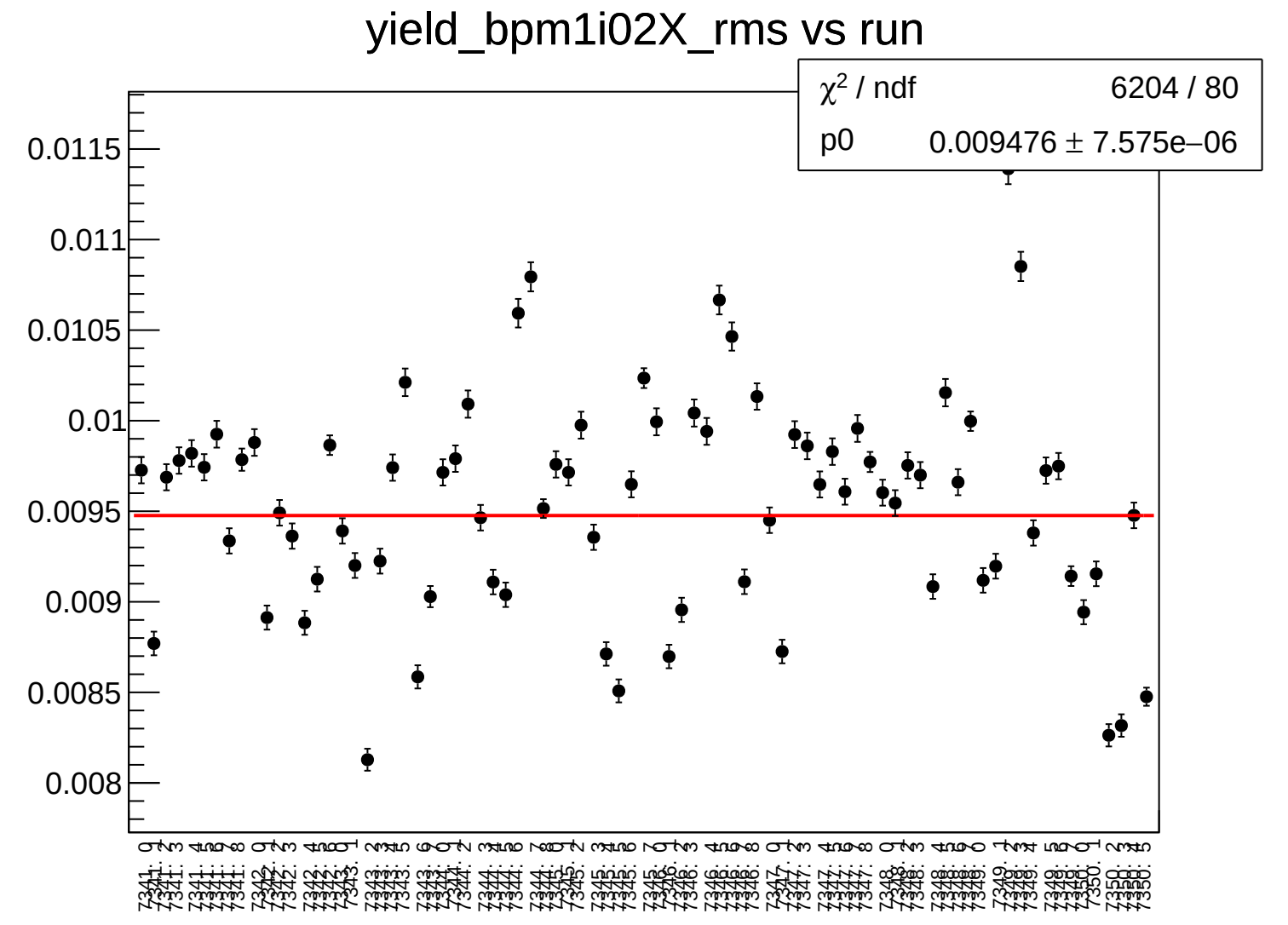

yield_bpm0i07Y_mean vs run
χ² / ndf 2.238e+06 / 80
p0 0.6629 ± 3.608e−06
0.675
0.67
0.665
0.66
0.655
0.65
pull
Entries 81
Mean −126.5
Std Dev 177.5
400
300
200
100
0
−100
−200
−300
−400

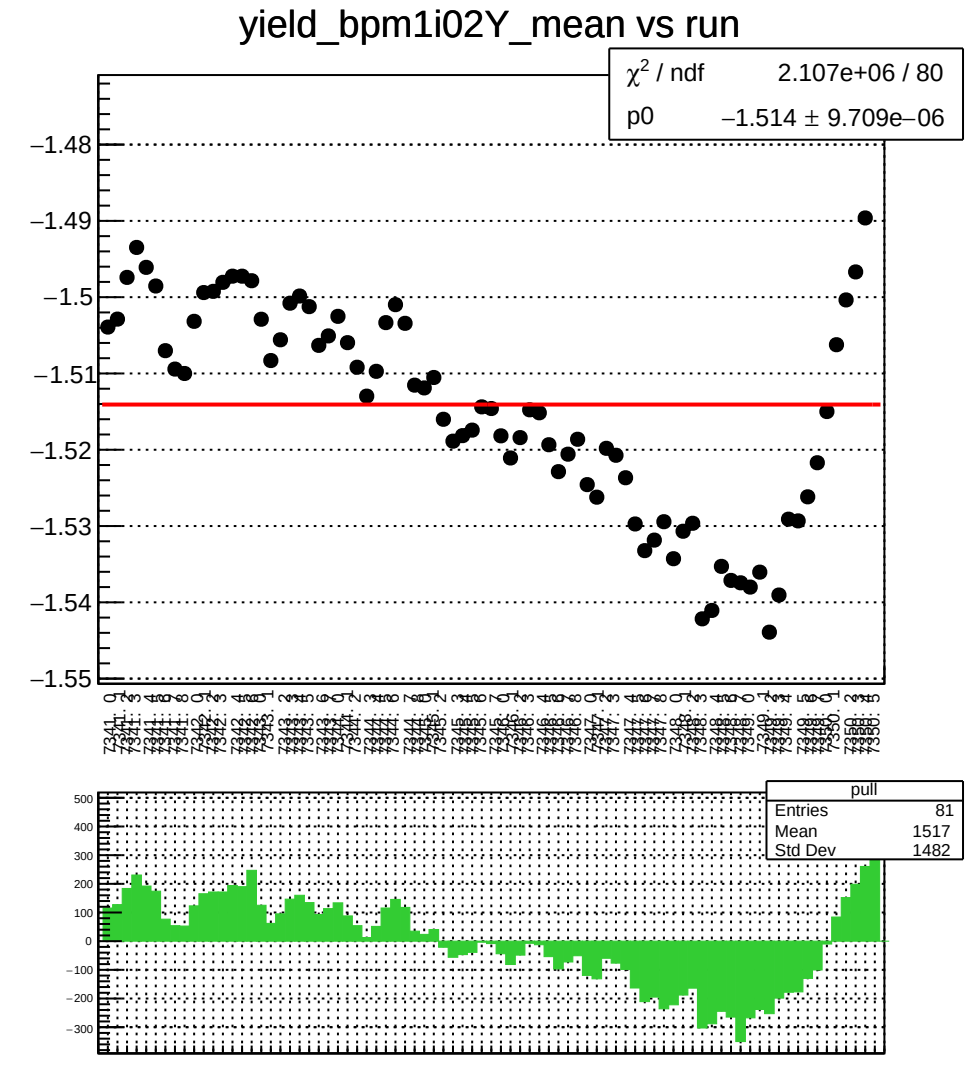

pull1D
Entries 81
Mean −1.617
Std Dev 2.048
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

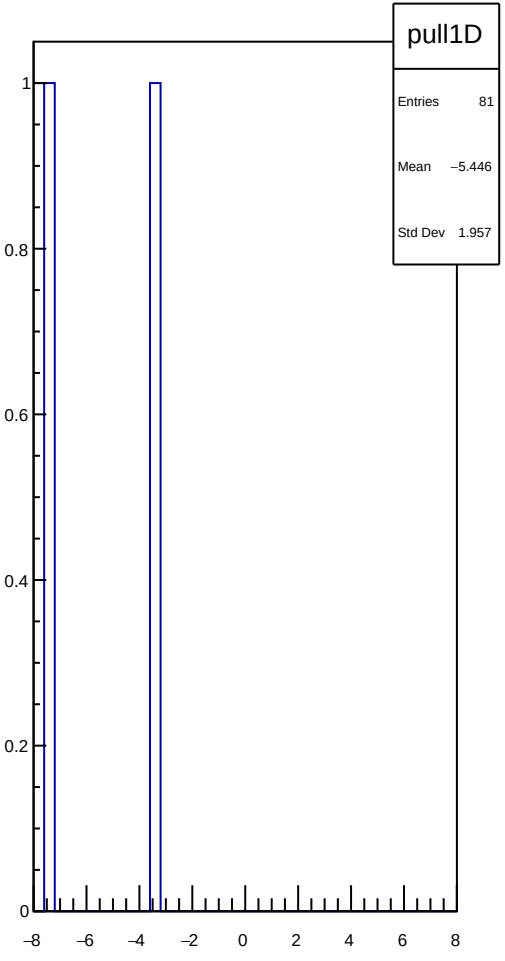

yield_bpm0i07Y_rms vs run
χ² / ndf 3.668e+04 / 80
p0 0.00316 ± 2.551e–06
0.0045
0.004
0.0035
0.003
0.0025

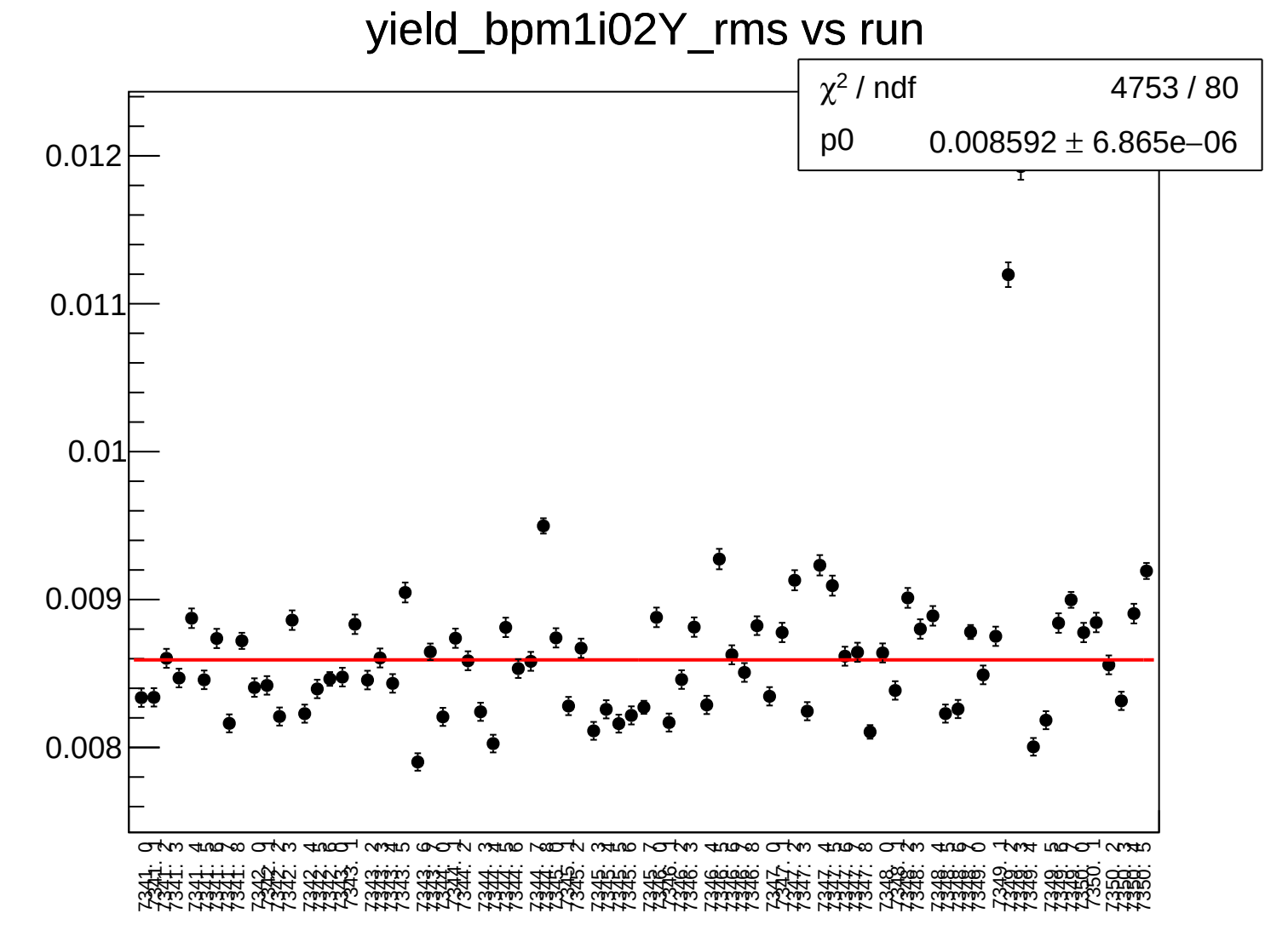

yield_bpm1i02X_mean vs run
χ² / ndf 9.641e+04 / 80
p0 −2.068 ± 1.071e−05
−2.058
−2.06
−2.062
−2.064
−2.066
−2.068
−2.07
−2.072
−2.074
pull
Entries 81
Mean −981.1
Std Dev 977.6
80
60
40
20
0
−20
−40
−60
−80

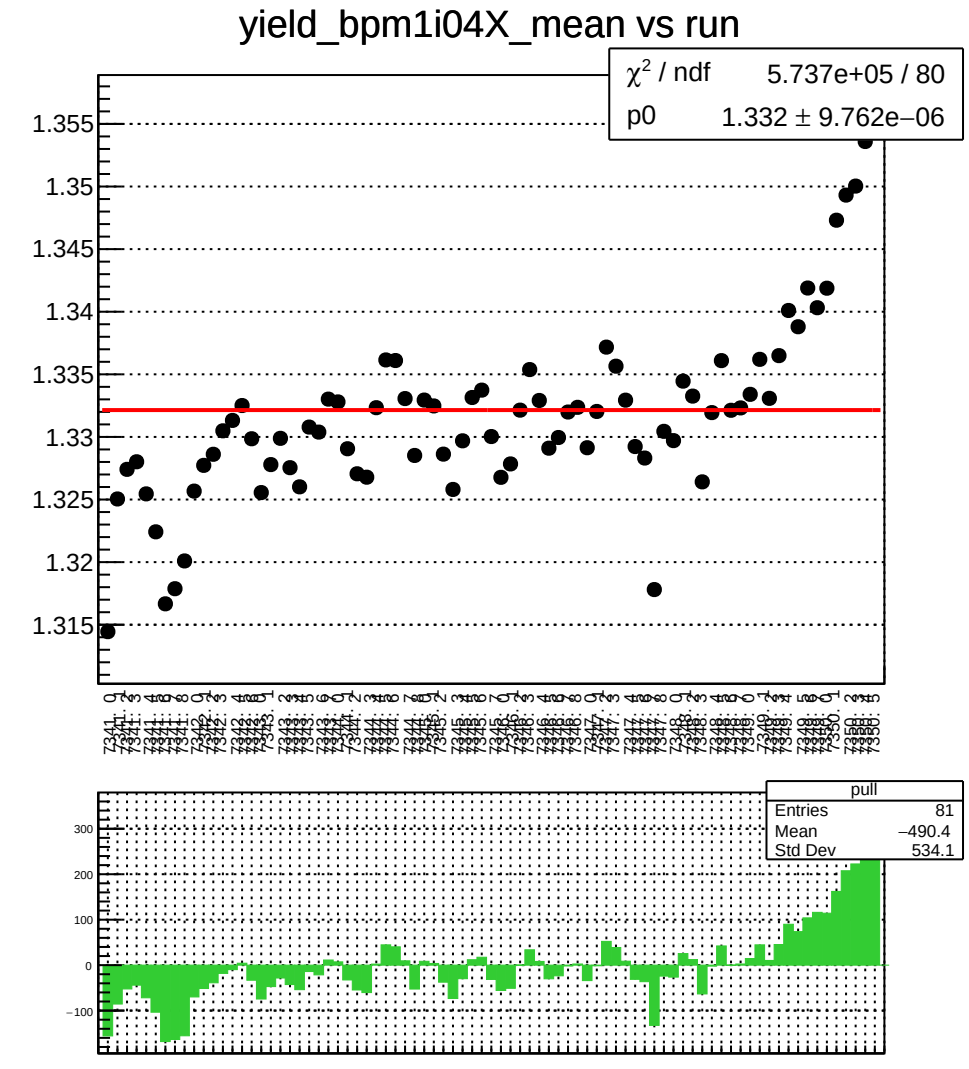

pull1D
Entries 81
Mean −1.331
Std Dev 4.134
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

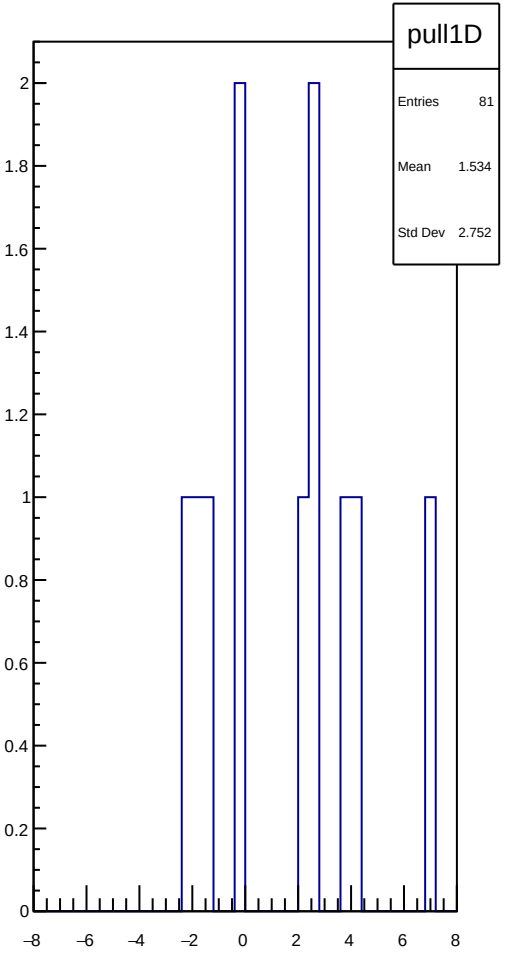

yield_bpm1i02X_rms vs run
χ² / ndf 6204 / 80
p0 0.009476 ± 7.575e−06
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008


yield_bpm1i02Y_mean vs run
χ² / ndf 2.107e+06 / 80
p0 −1.514 ± 9.709e−06
−1.48
−1.49
−1.5
−1.51
−1.52
−1.53
−1.54
−1.55
pull
Entries 81
Mean 1517
Std Dev 1482
500
400
300
200
100
0
−100
−200
−300

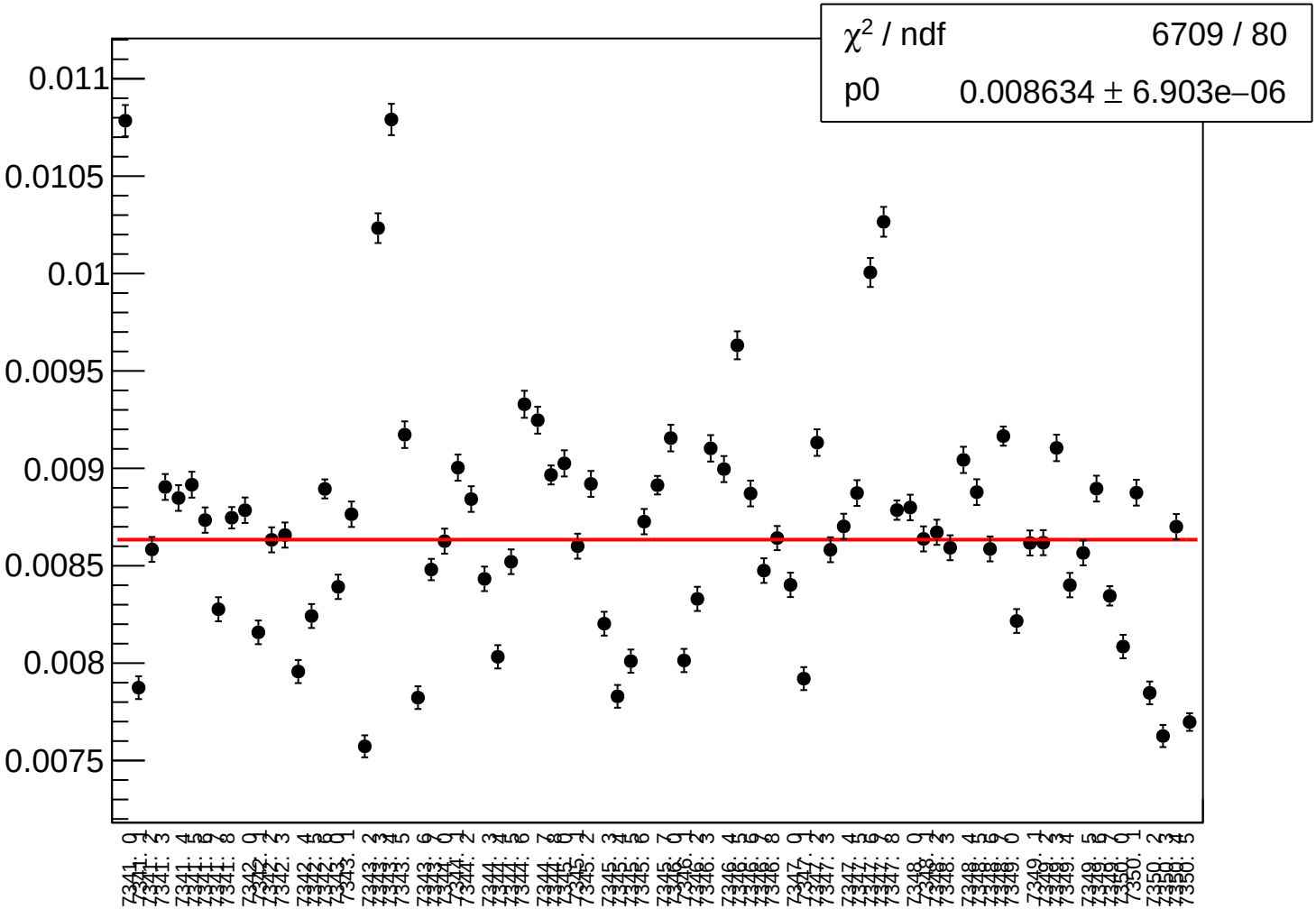

pull1D
Entries 81
Mean −5.446
Std Dev 1.957
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

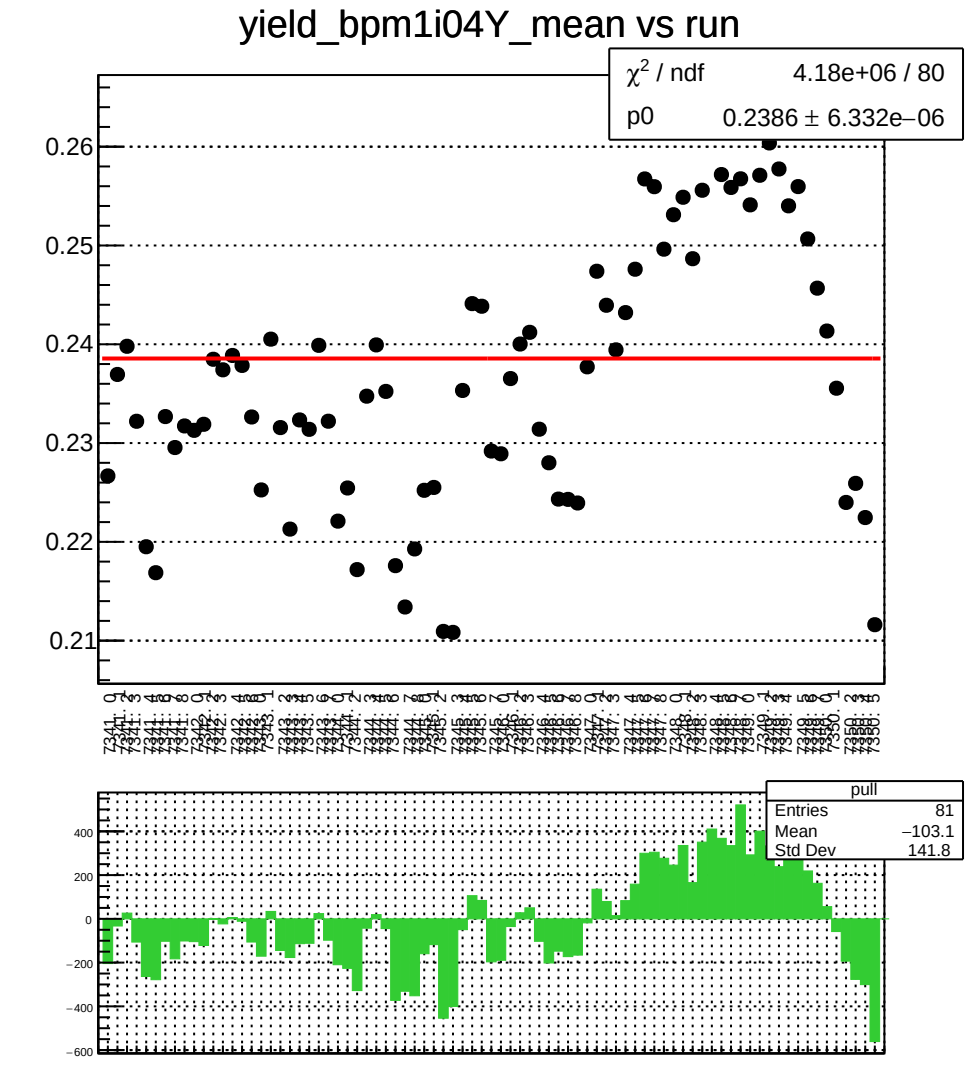

yield_bpm1i02Y_rms vs run
χ² / ndf 4753 / 80
p0 0.008592 ± 6.865e−06
0.012
0.011
0.01
0.009
0.008

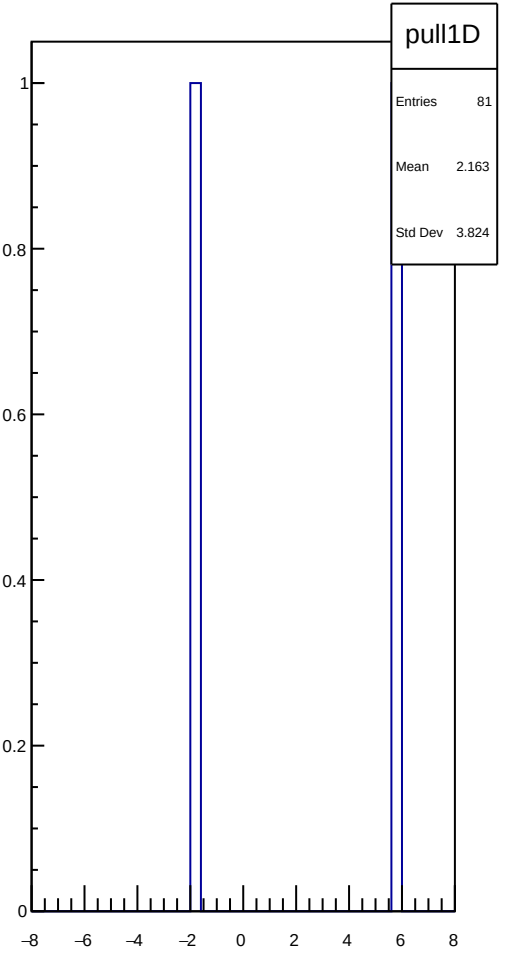

yield_bpm1i04X_mean vs run
χ² / ndf 5.737e+05 / 80
p0 1.332 ± 9.762e−06
1.355
1.35
1.345
1.34
1.335
1.33
1.325
1.32
1.315
pull
Entries 81
Mean −490.4
Std Dev 534.1
300
200
100
0
−100

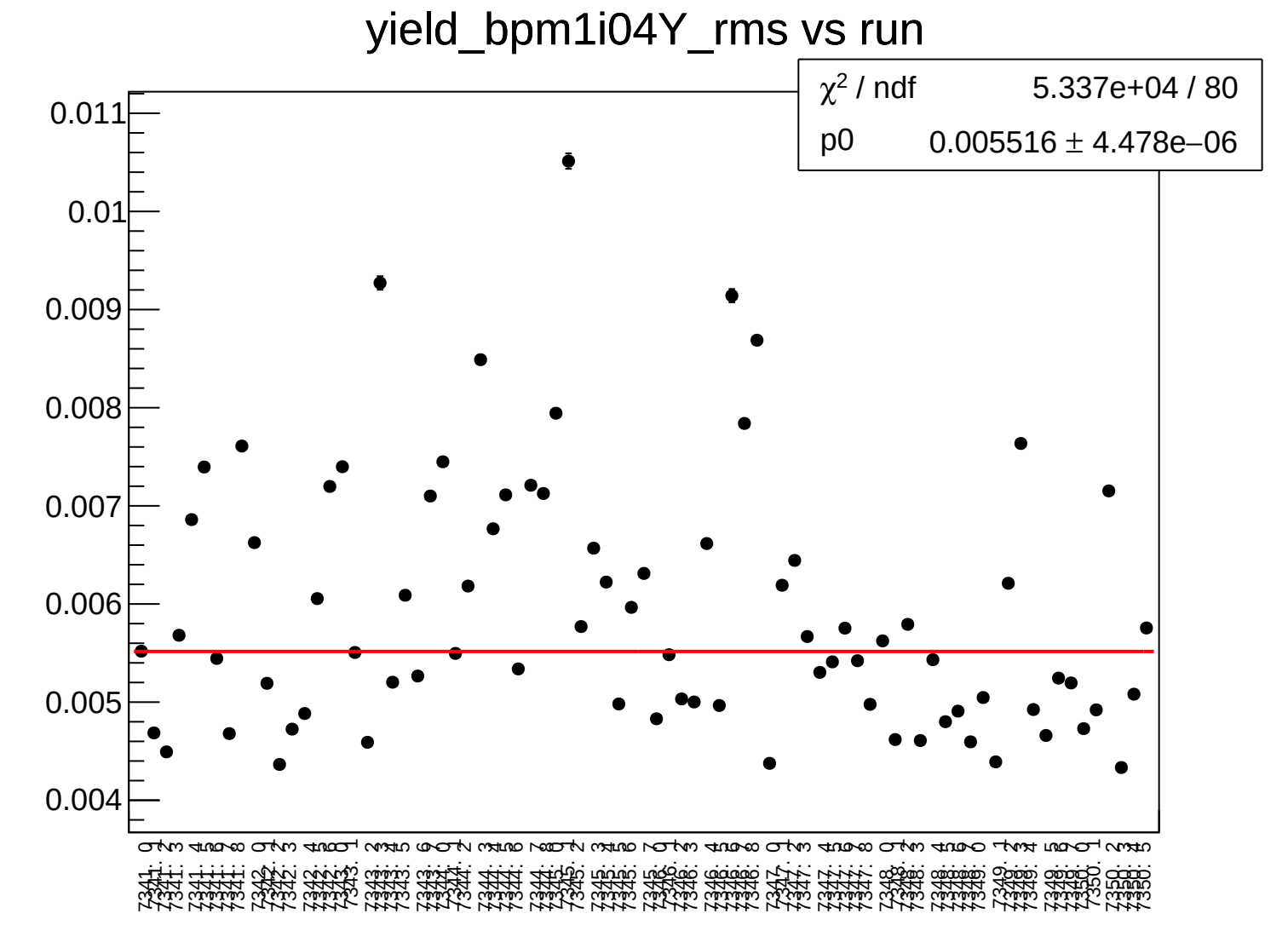

pull1D
Entries 81
Mean 1.534
Std Dev 2.752
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

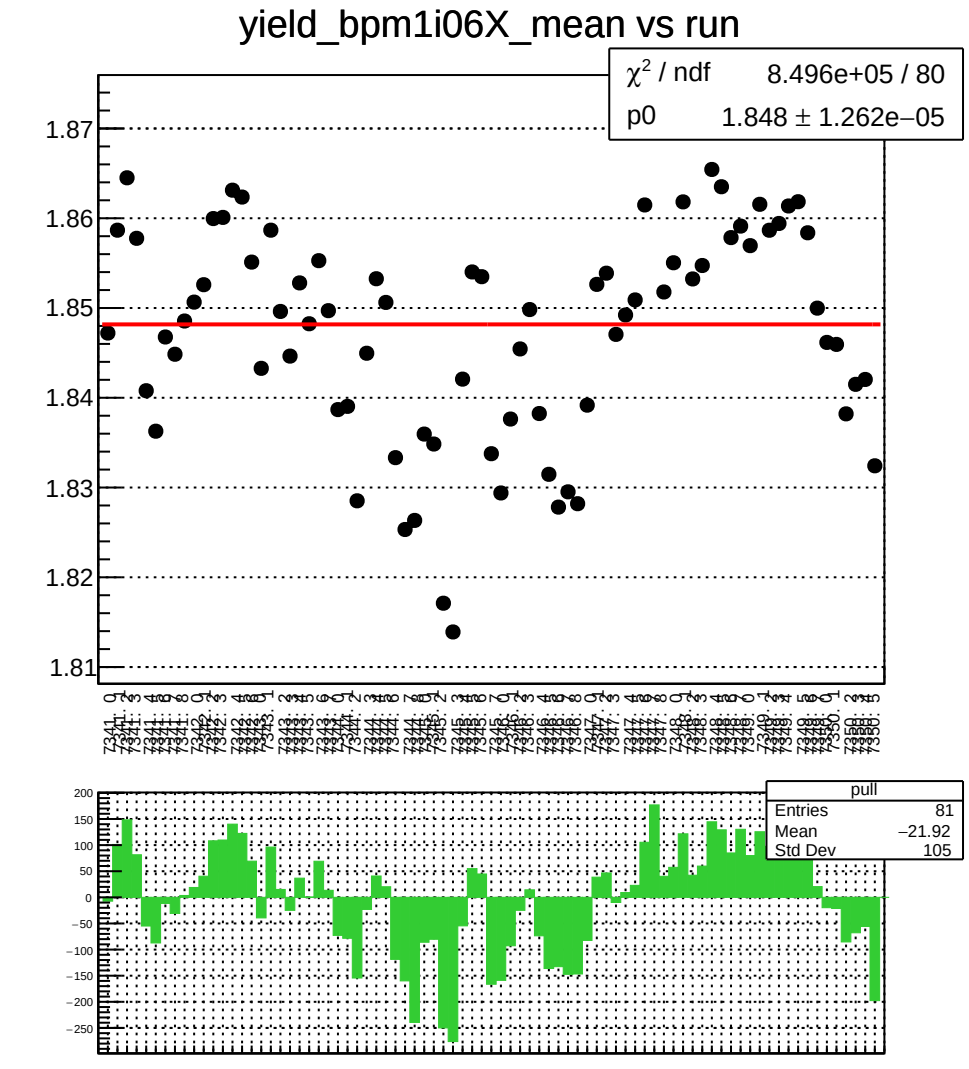
yield_bpm1i04X_rms vs run

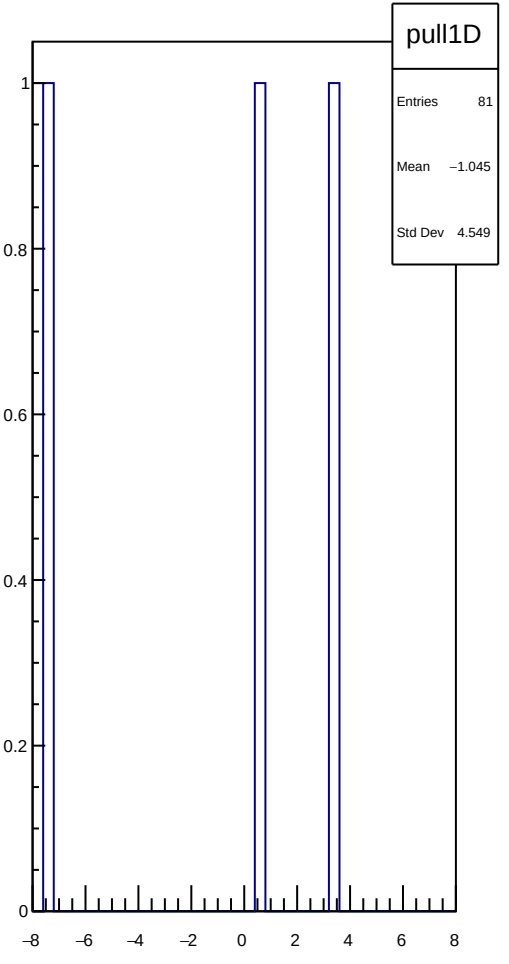


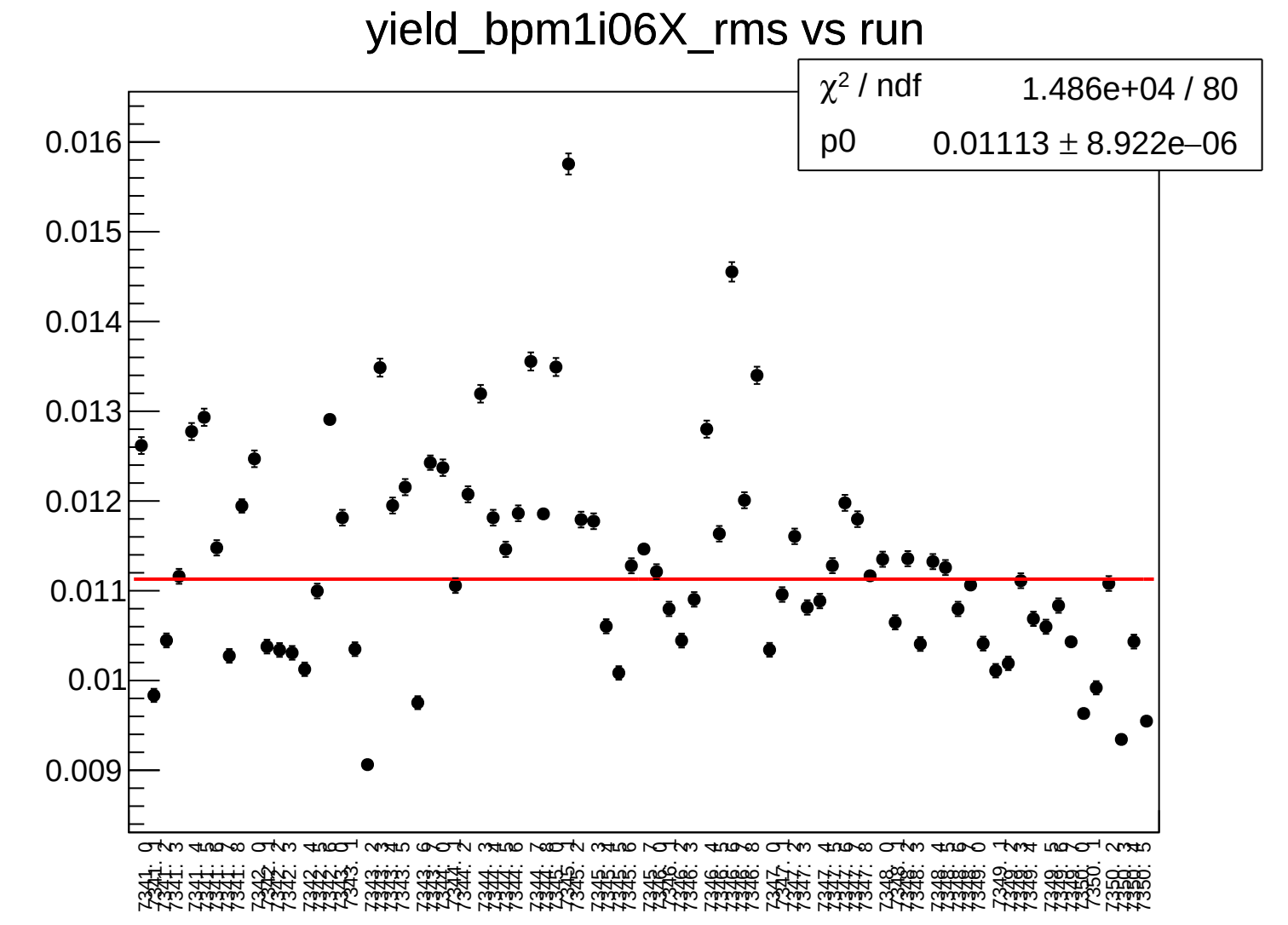

yield_bpm1i04Y_mean vs run
χ² / ndf 4.18e+06 / 80
p0 0.2386 ± 6.332e−06
0.26
0.25
0.24
0.23
0.22
0.21
pull
Entries 81
Mean −103.1
Std Dev 141.8
400
200
0
−200
−400
−600

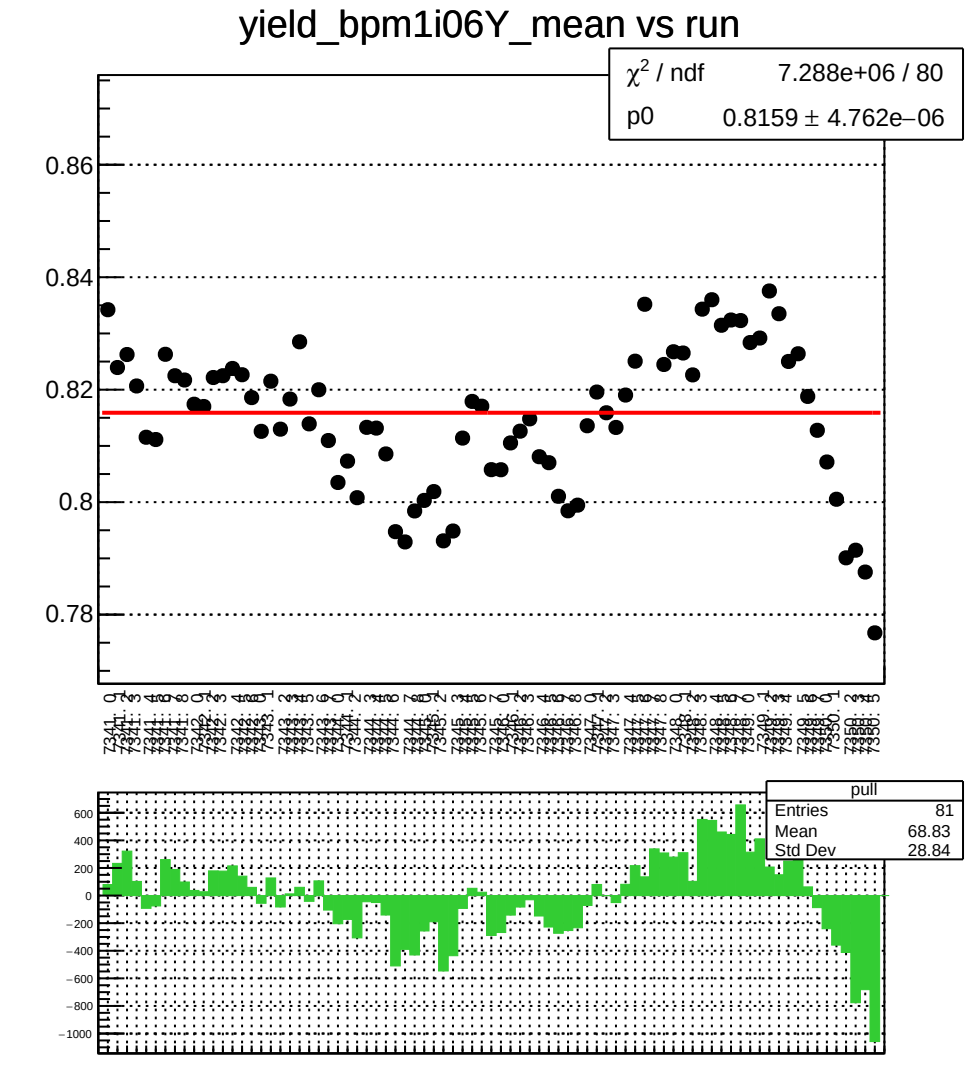

pull1D
Entries 81
Mean 2.163
Std Dev 3.824
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

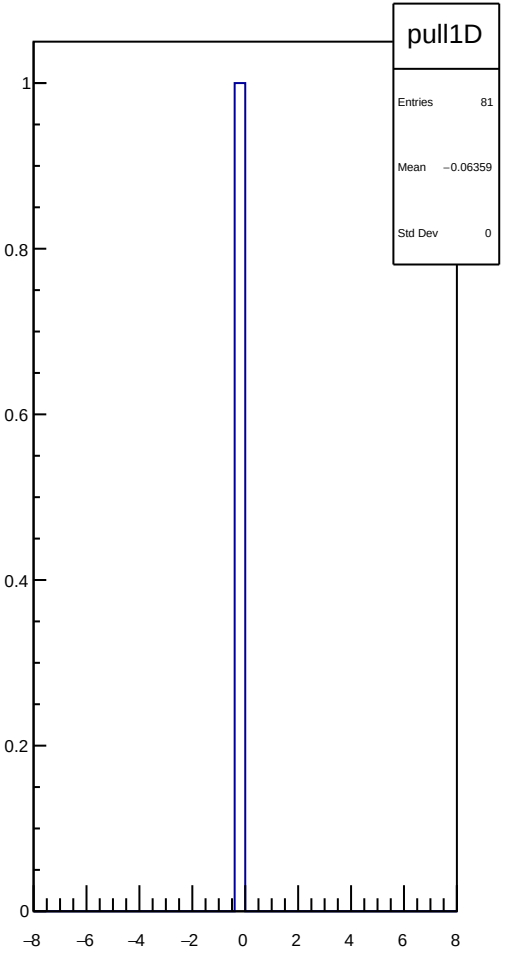

yield_bpm1i04Y_rms vs run
χ^2 / ndf 5.337e+04 / 80
p0 0.005516 ± 4.478e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

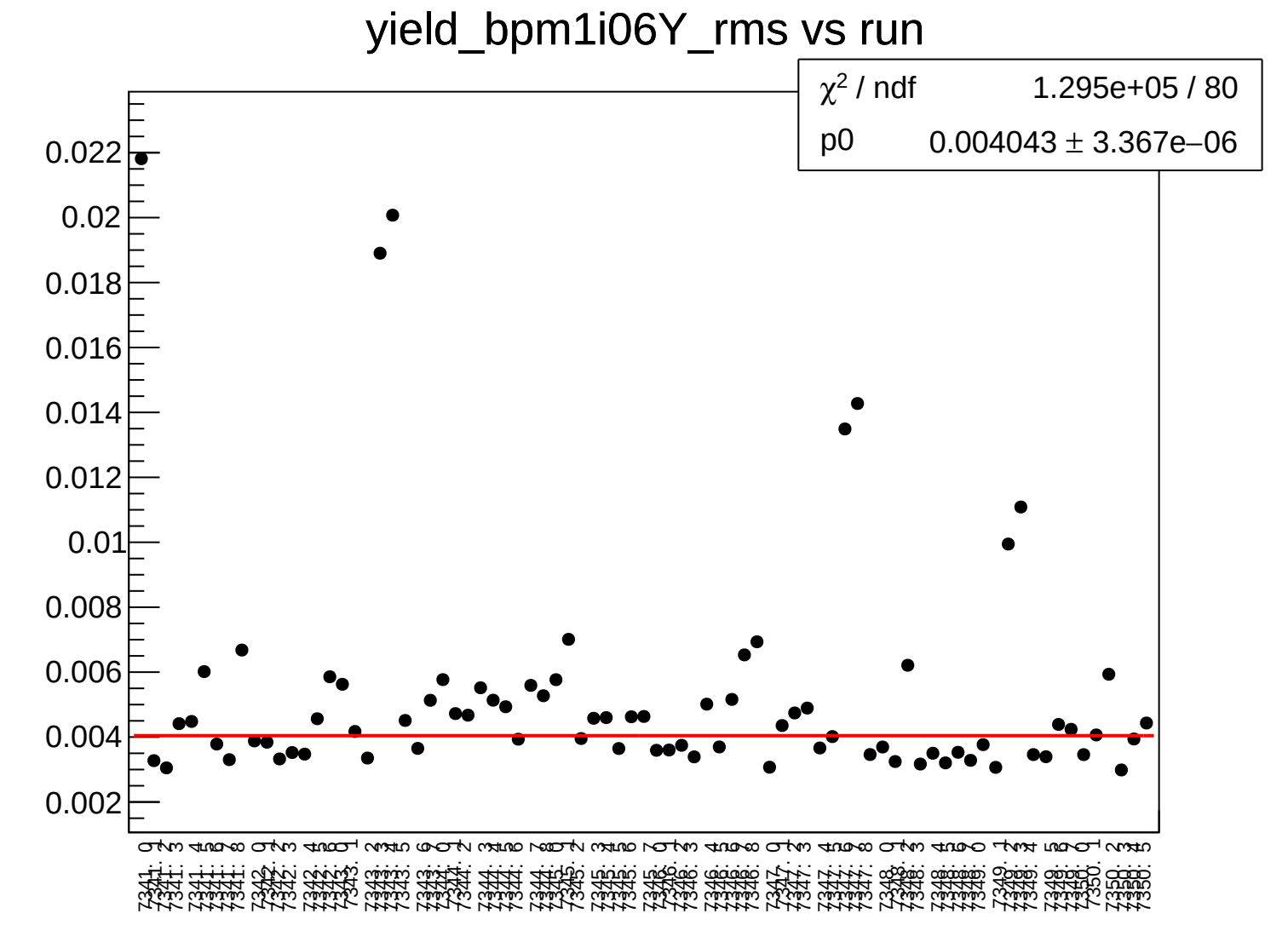

yield_bpm1i06X_mean vs run
χ² / ndf 8.496e+05 / 80
p0 1.848 ± 1.262e−05
1.87
1.86
1.85
1.84
1.83
1.82
1.81
pull
Entries 81
Mean −21.92
Std Dev 105
200
150
100
50
0
−50
−100
−150
−200
−250

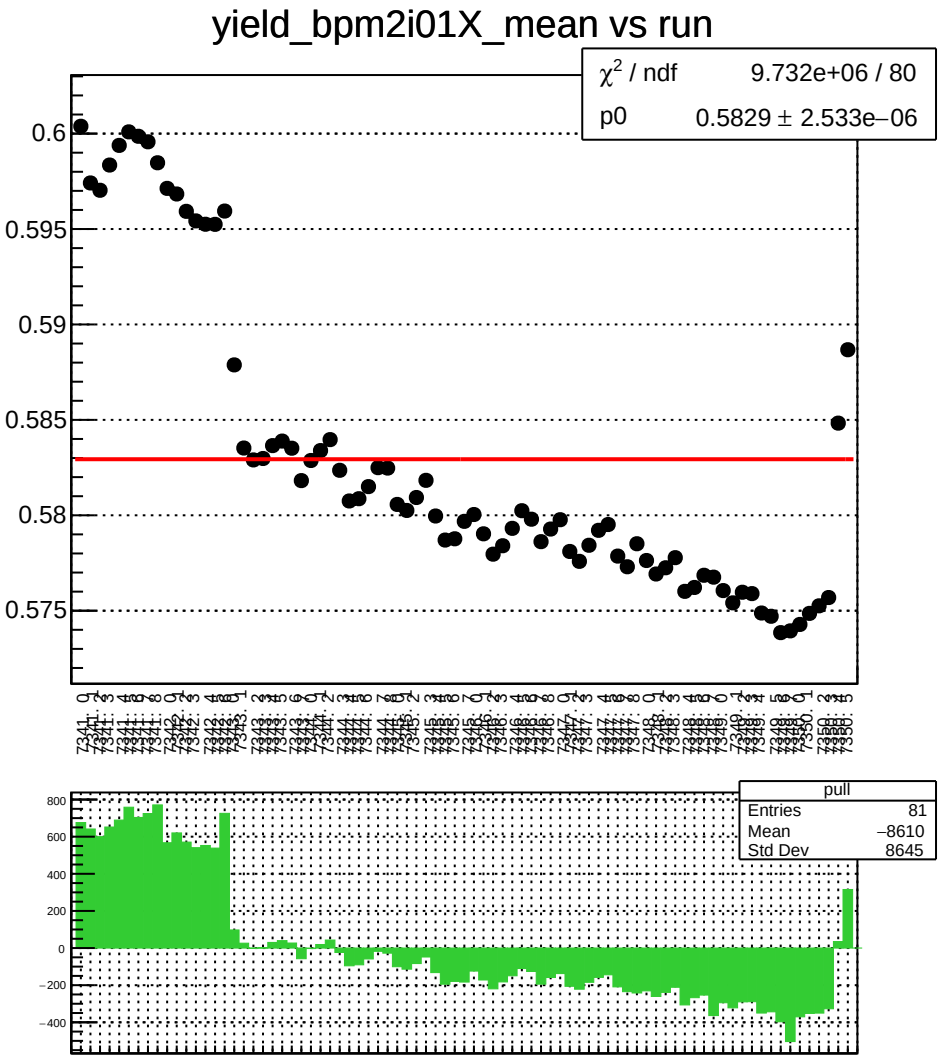

pull1D
Entries 81
Mean −1.045
Std Dev 4.549
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

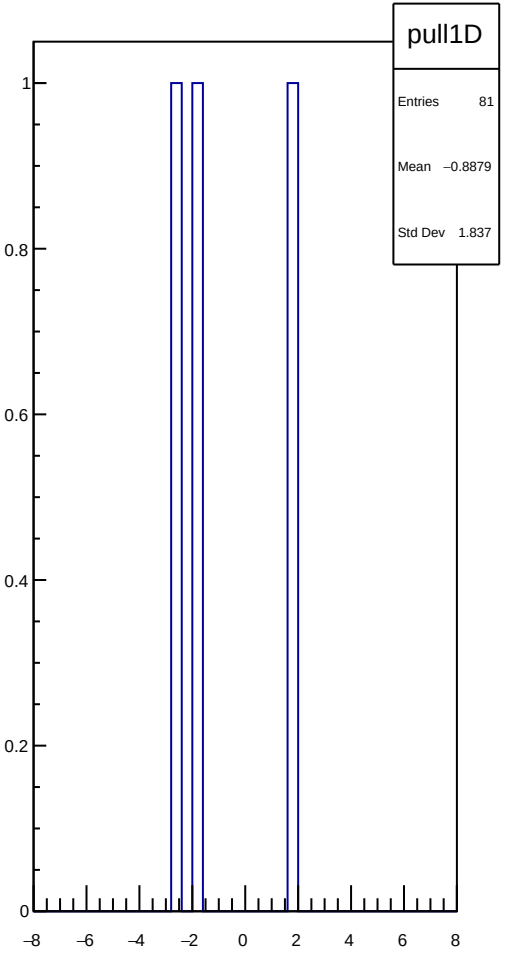

yield_bpm1i06X_rms vs run
χ² / ndf 1.486e+04 / 80
p0 0.01113 ± 8.922e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

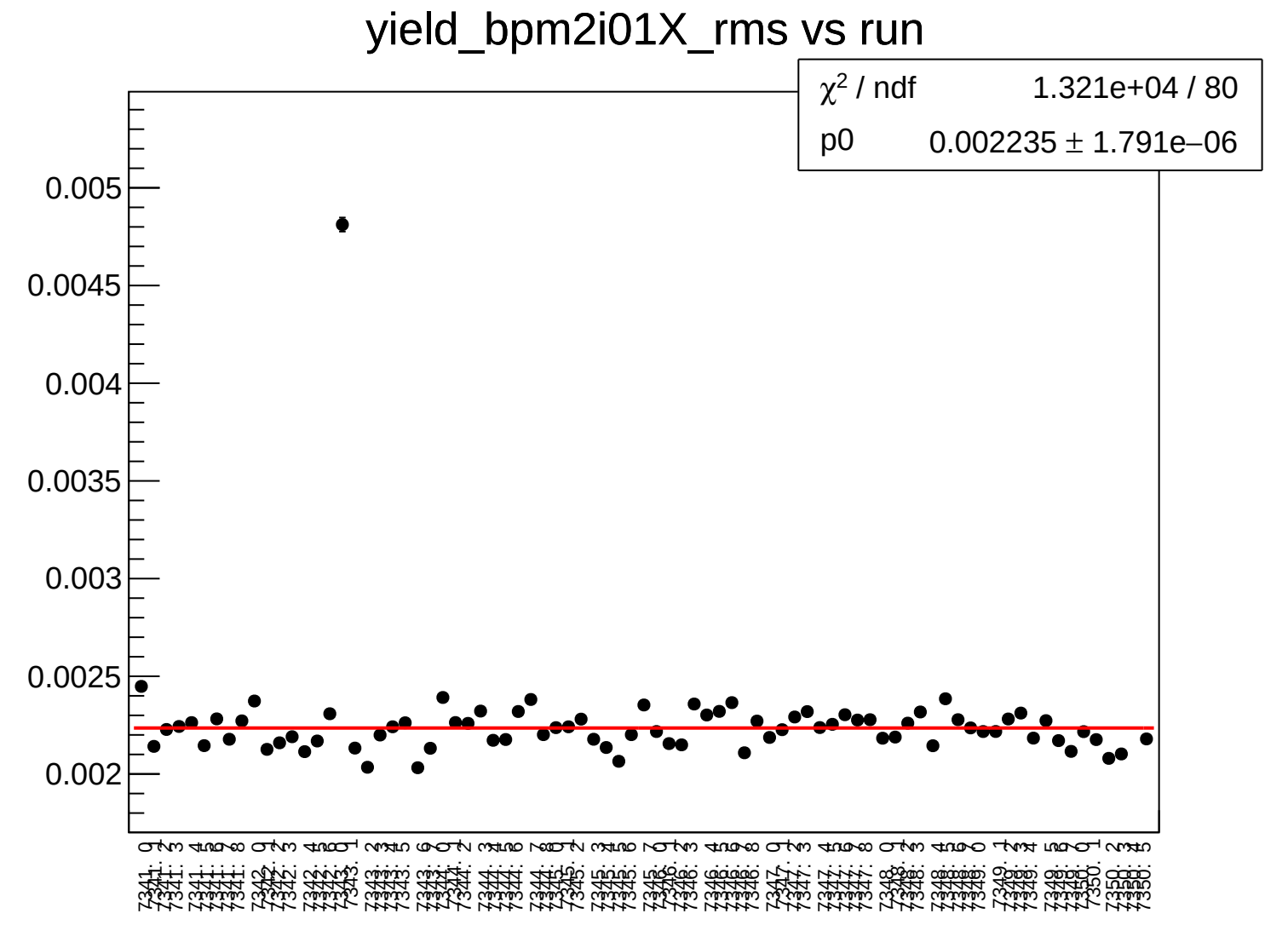

yield_bpm1i06Y_mean vs run
χ² / ndf 7.288e+06 / 80
p0 0.8159 ± 4.762e−06
0.86
0.84
0.82
0.8
0.78
pull
Entries 81
Mean 68.83
Std Dev 28.84
600
400
200
0
−200
−400
−600
−800
−1000

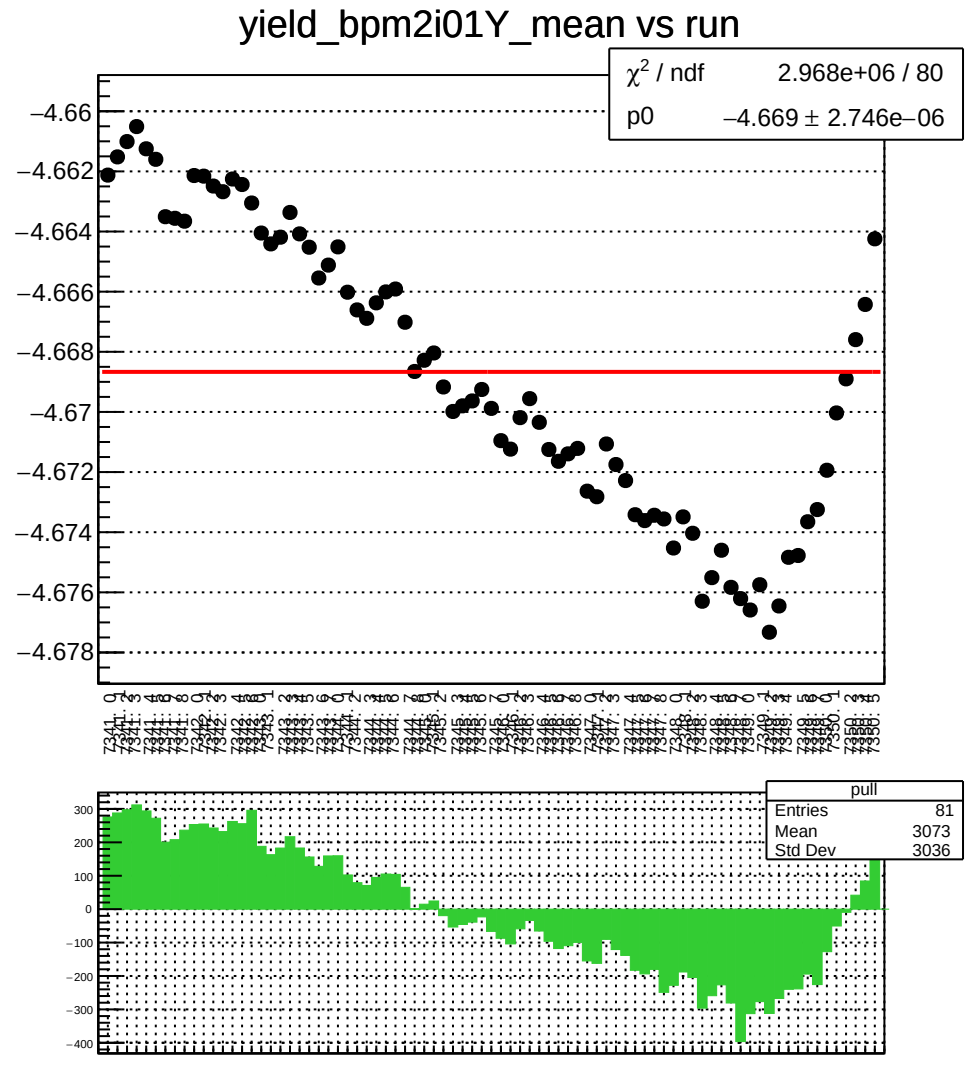

pull1D
Entries 81
Mean −0.06359
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

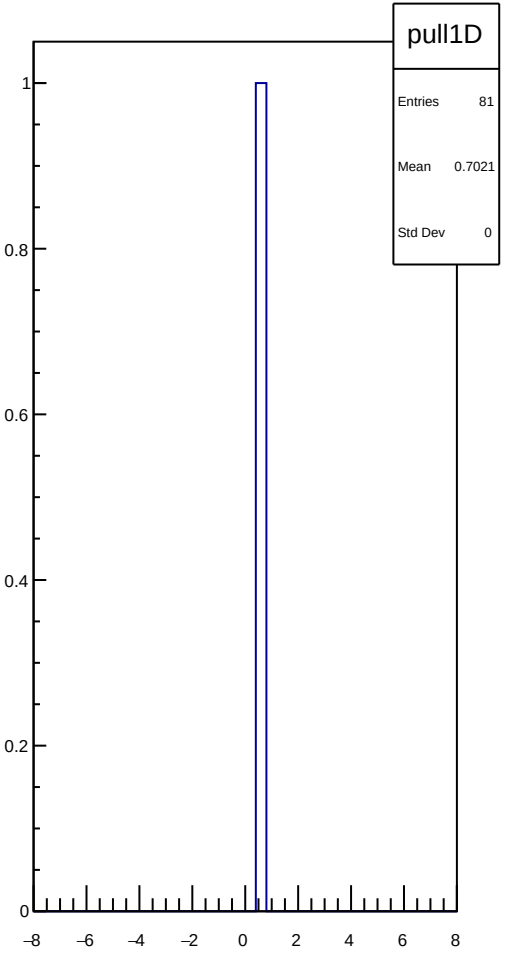

yield_bpm1i06Y_rms vs run
χ² / ndf 1.295e+05 / 80
p0 0.004043 ± 3.367e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

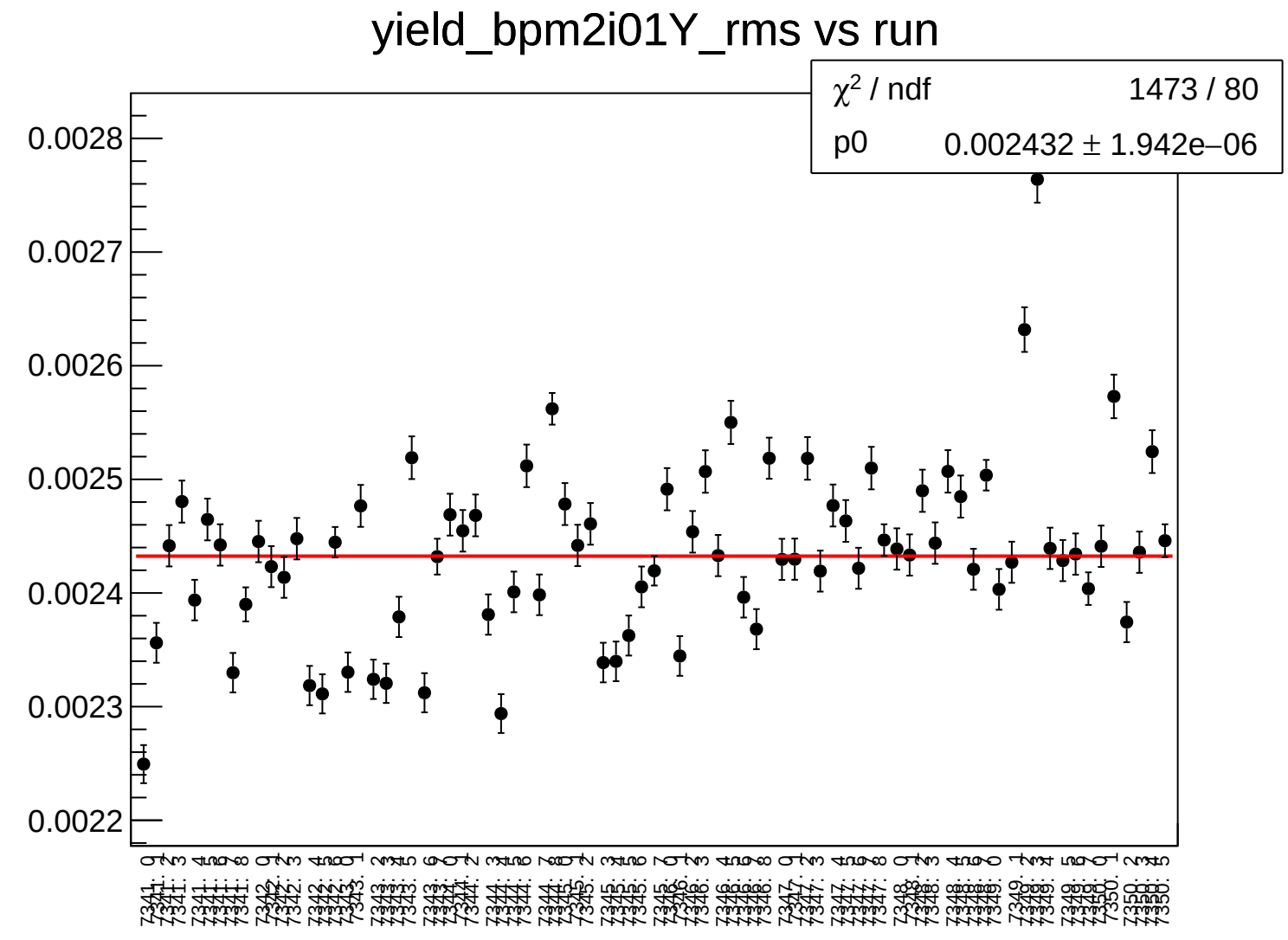

yield_bpm2i01X_mean vs run
χ² / ndf 9.732e+06 / 80
p0 0.5829 ± 2.533e−06
0.6
0.595
0.59
0.585
0.58
0.575
pull
Entries 81
Mean −8610
Std Dev 8645
800
600
400
200
0
−200
−400

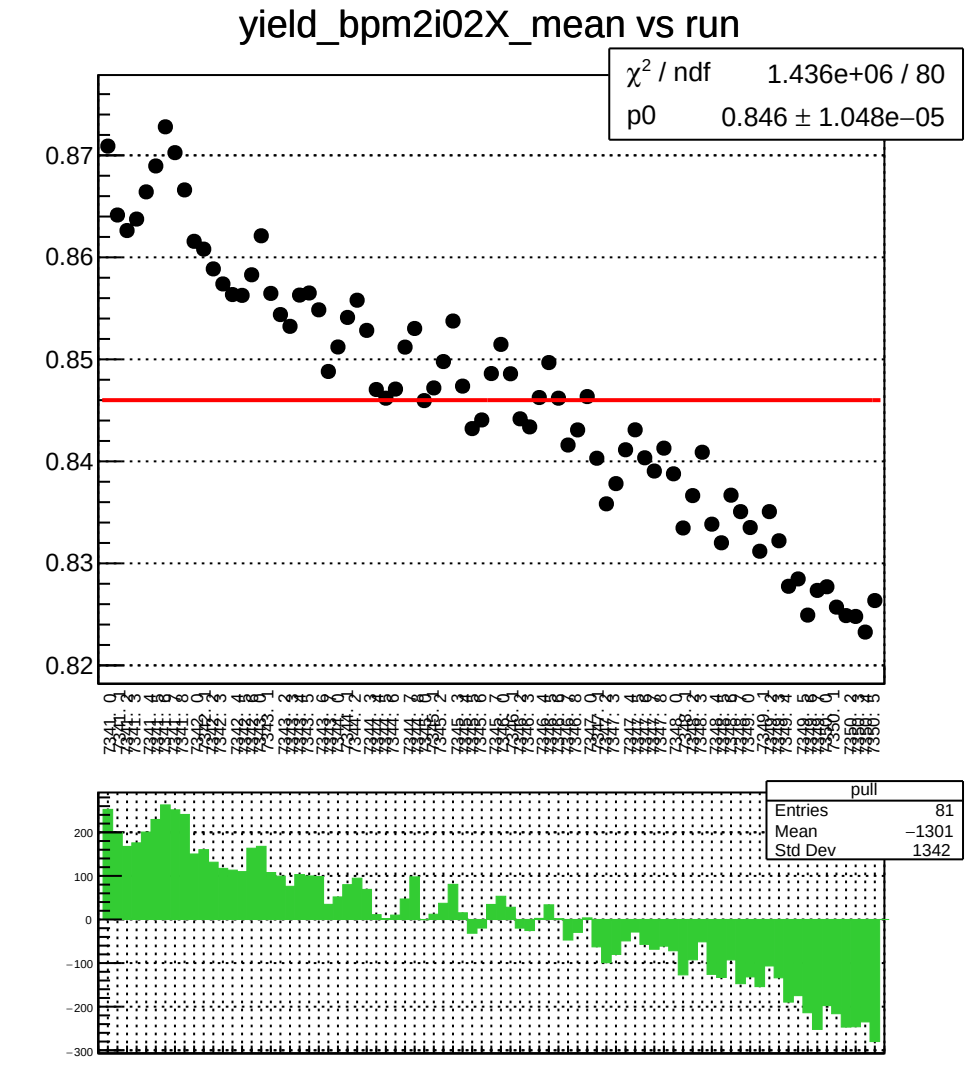

pull1D
Entries 81
Mean −0.8879
Std Dev 1.837
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

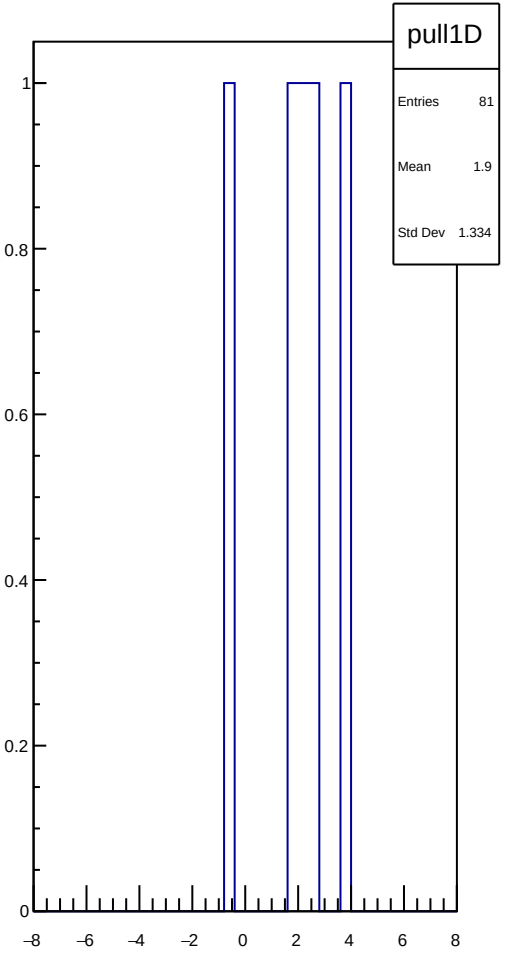

yield_bpm2i01X_rms vs run
χ² / ndf 1.321e+04 / 80
p0 0.002235 ± 1.791e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

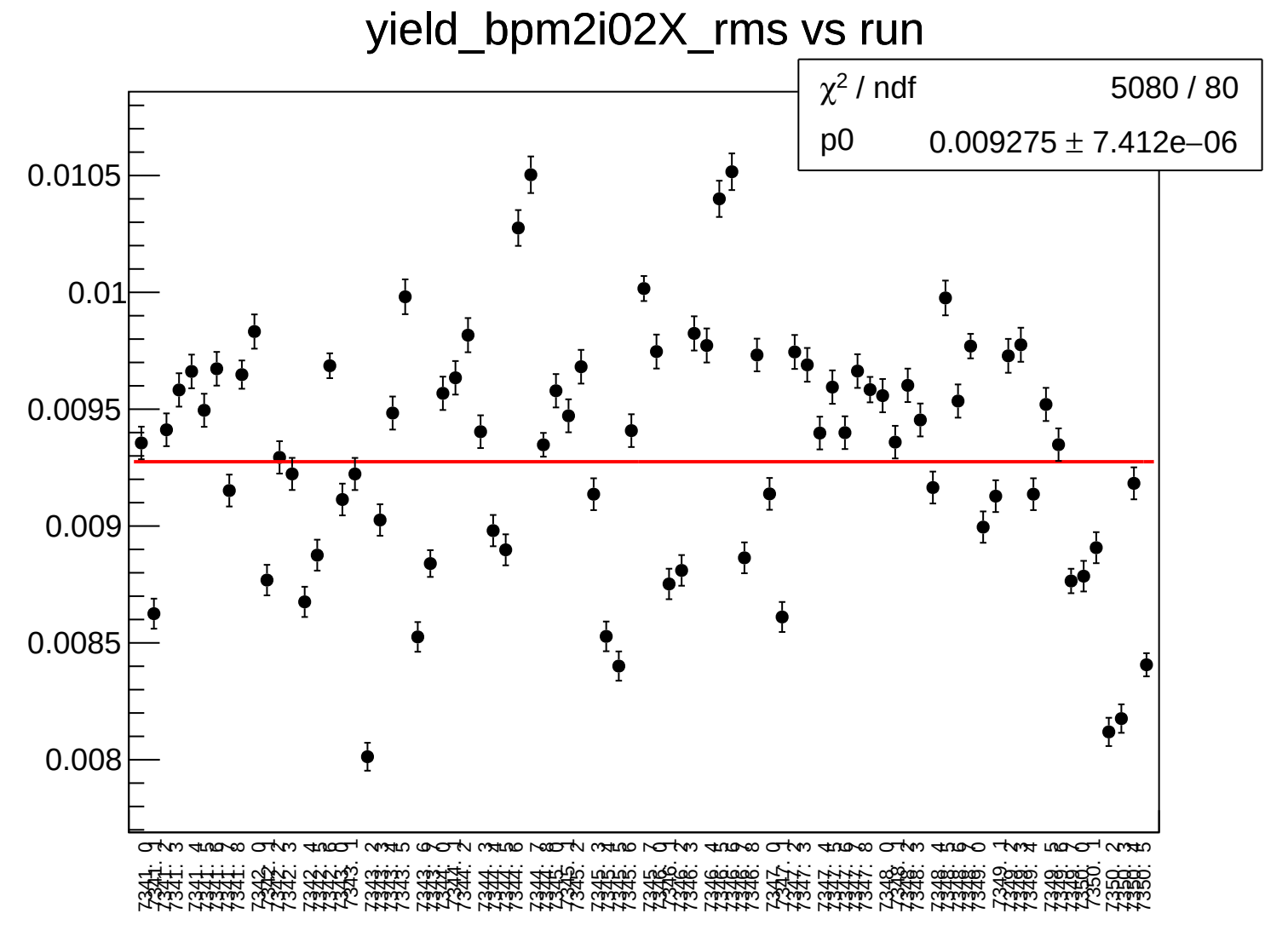

yield_bpm2i01Y_mean vs run
χ² / ndf 2.968e+06 / 80
p0 −4.669 ± 2.746e−06
−4.66
−4.662
−4.664
−4.666
−4.668
−4.67
−4.672
−4.674
−4.676
−4.678
pull
Entries 81
Mean 3073
Std Dev 3036
300
200
100
0
−100
−200
−300
−400

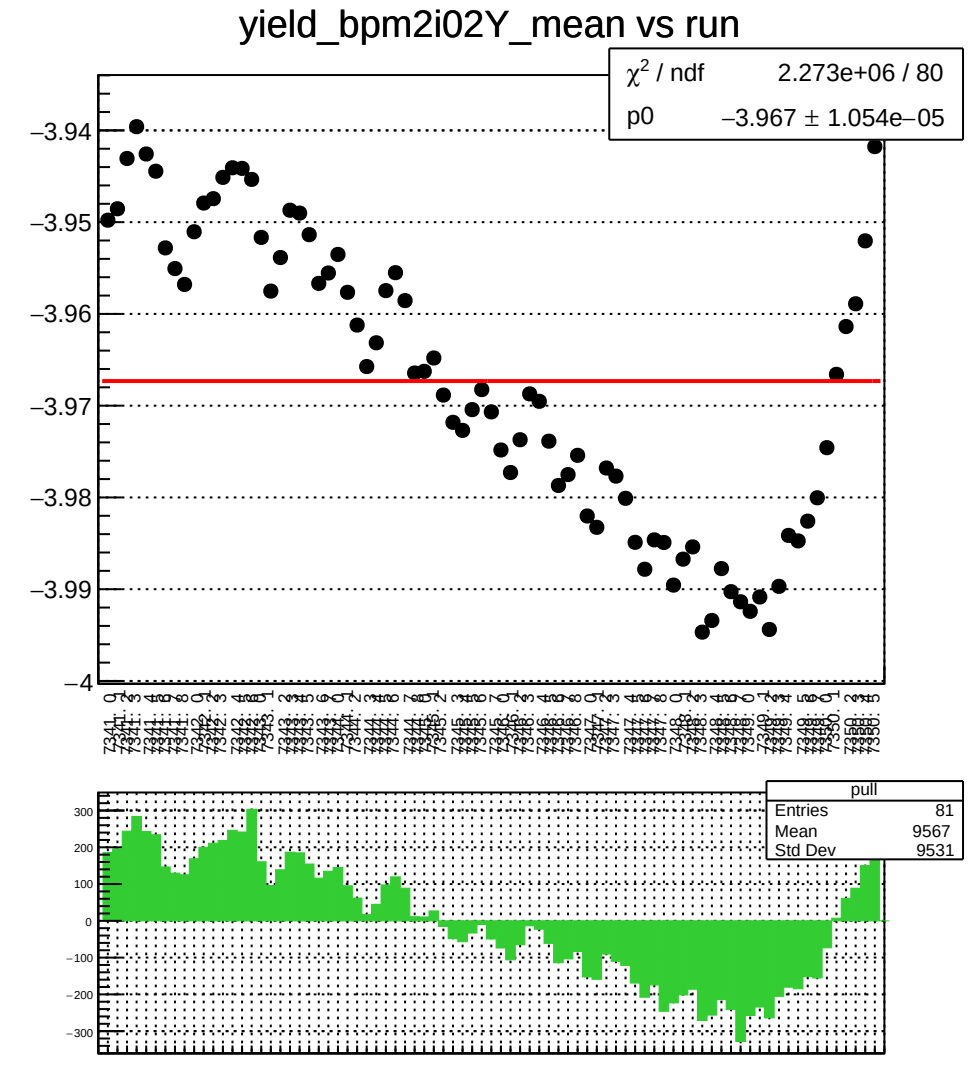

pull1D
Entries 81
Mean 0.7021
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

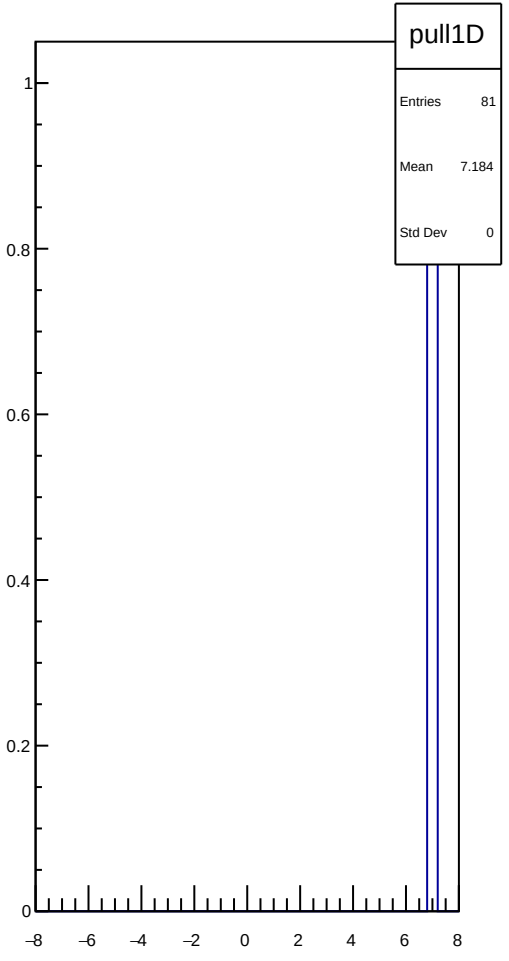

yield_bpm2i01Y_rms vs run
χ² / ndf 1473 / 80
p0 0.002432 ± 1.942e−06
0.0028
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022

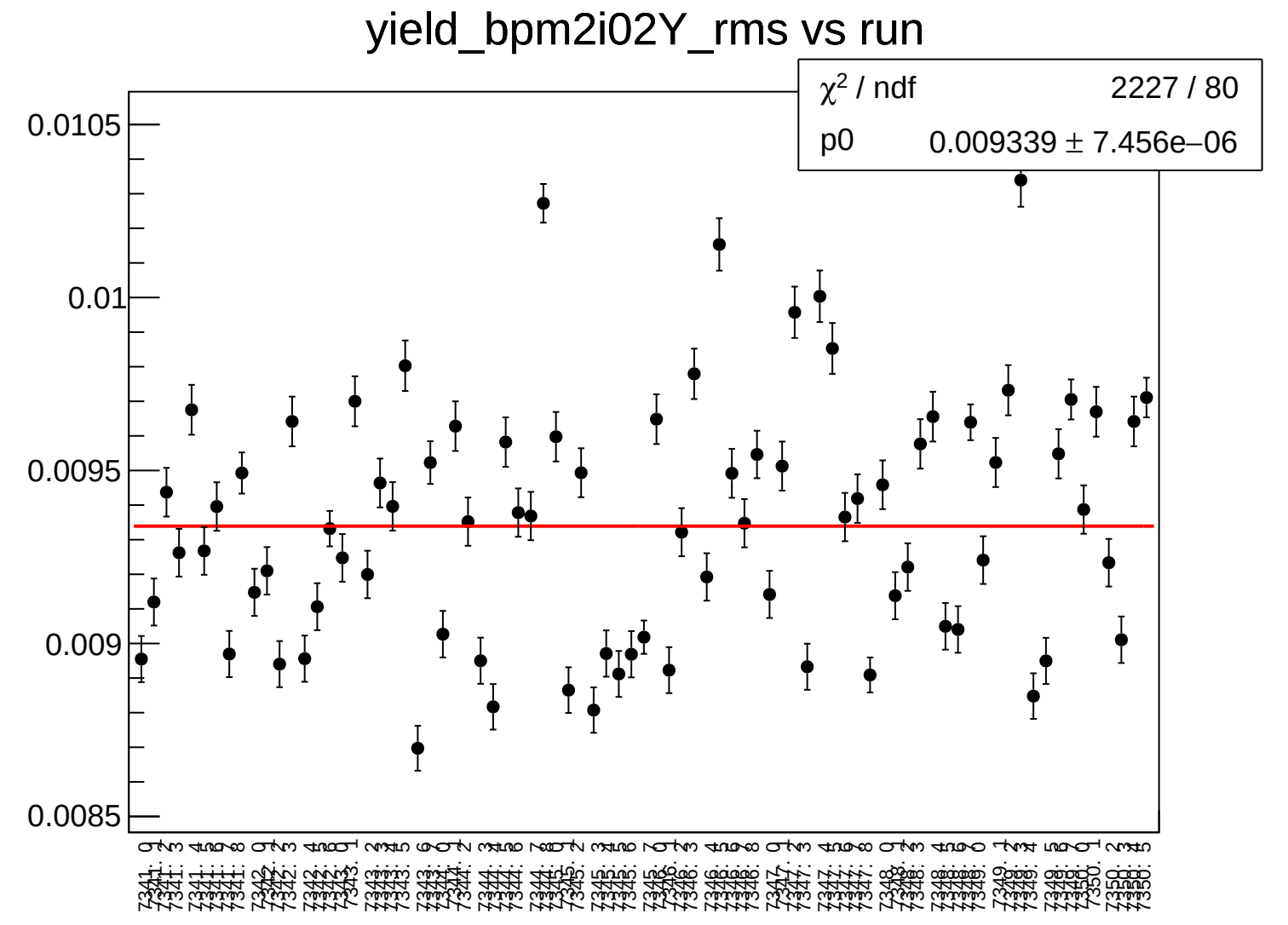

yield_bpm2i02X_mean vs run
χ² / ndf 1.436e+06 / 80
p0 0.846 ± 1.048e−05
0.87
0.86
0.85
0.84
0.83
0.82
pull
Entries 81
Mean −1301
Std Dev 1342
200
100
0
−100
−200
−300

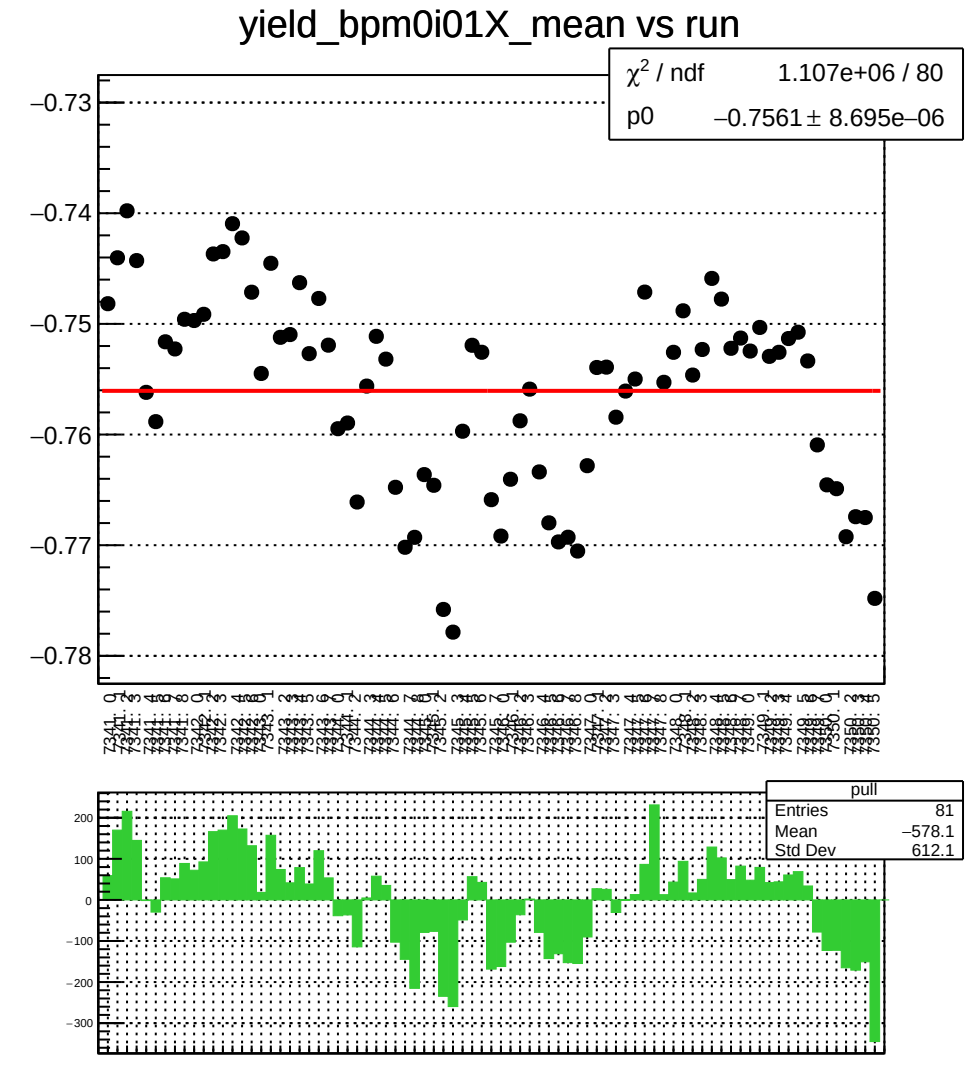

pull1D
Entries 81
Mean 1.9
Std Dev 1.334
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

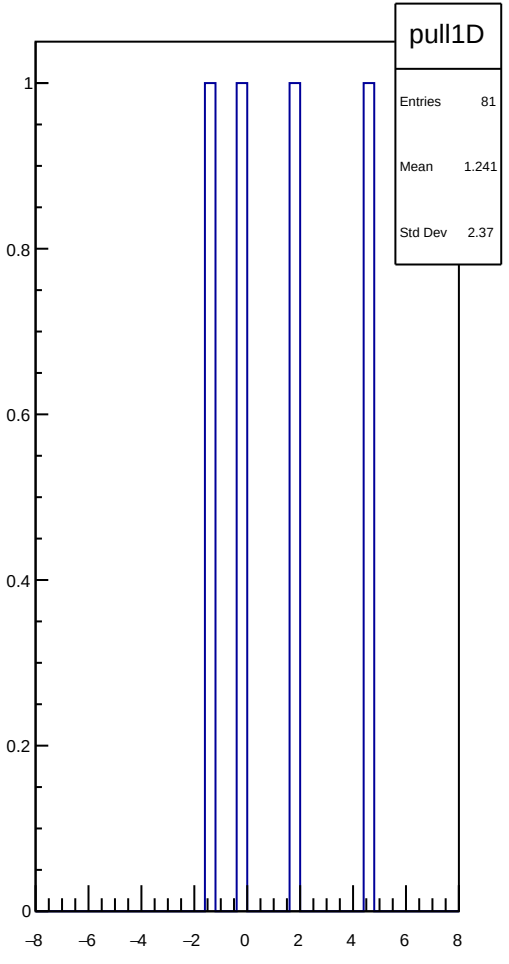

yield_bpm2i02X_rms vs run
χ² / ndf 5080 / 80
p0 0.009275 ± 7.412e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

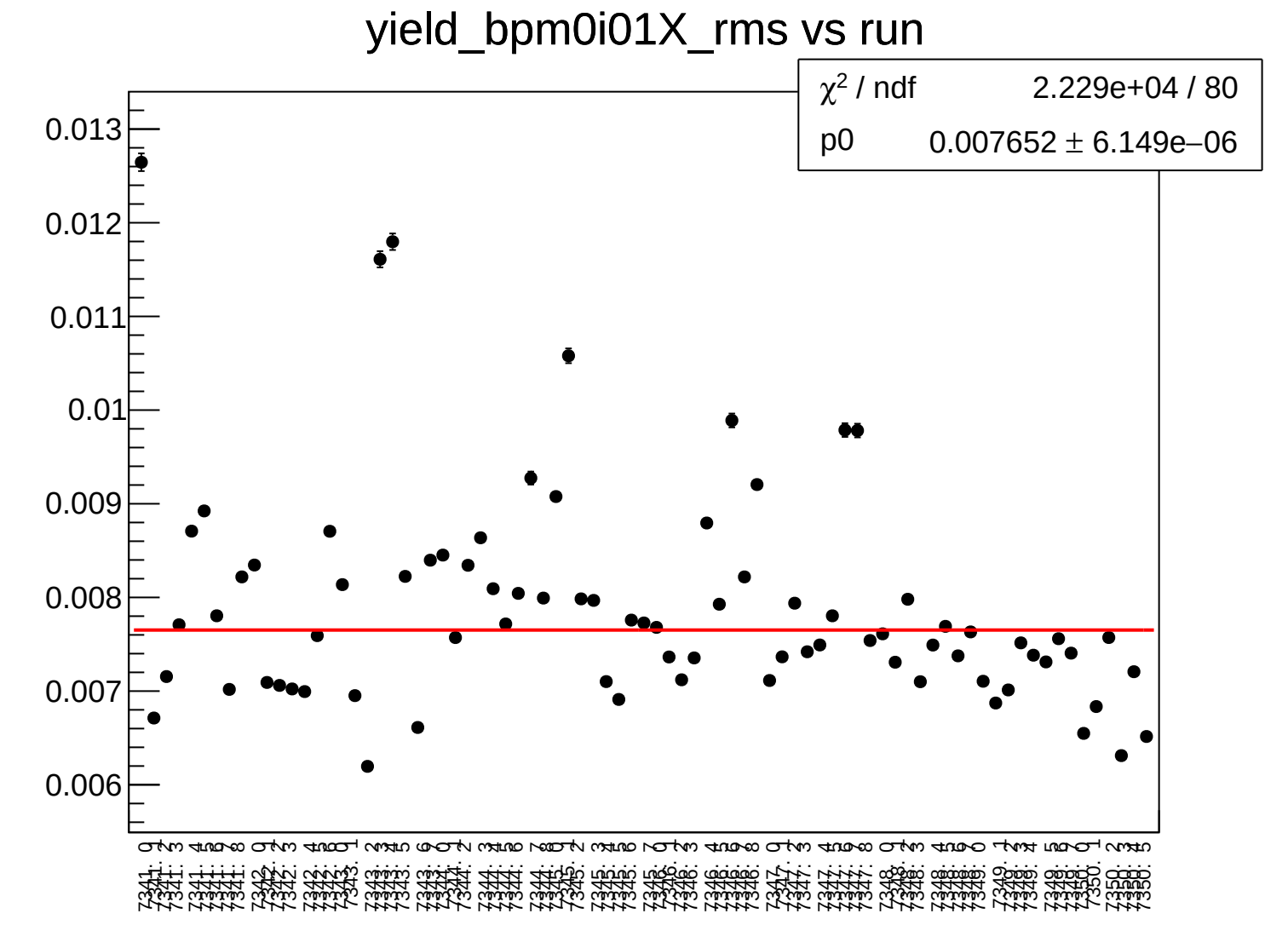

yield_bpm2i02Y_mean vs run
χ² / ndf 2.273e+06 / 80
p0 −3.967 ± 1.054e−05
−3.94
−3.95
−3.96
−3.97
−3.98
−3.99
−4
pull
Entries 81
Mean 9567
Std Dev 9531
300
200
100
0
−100
−200
−300

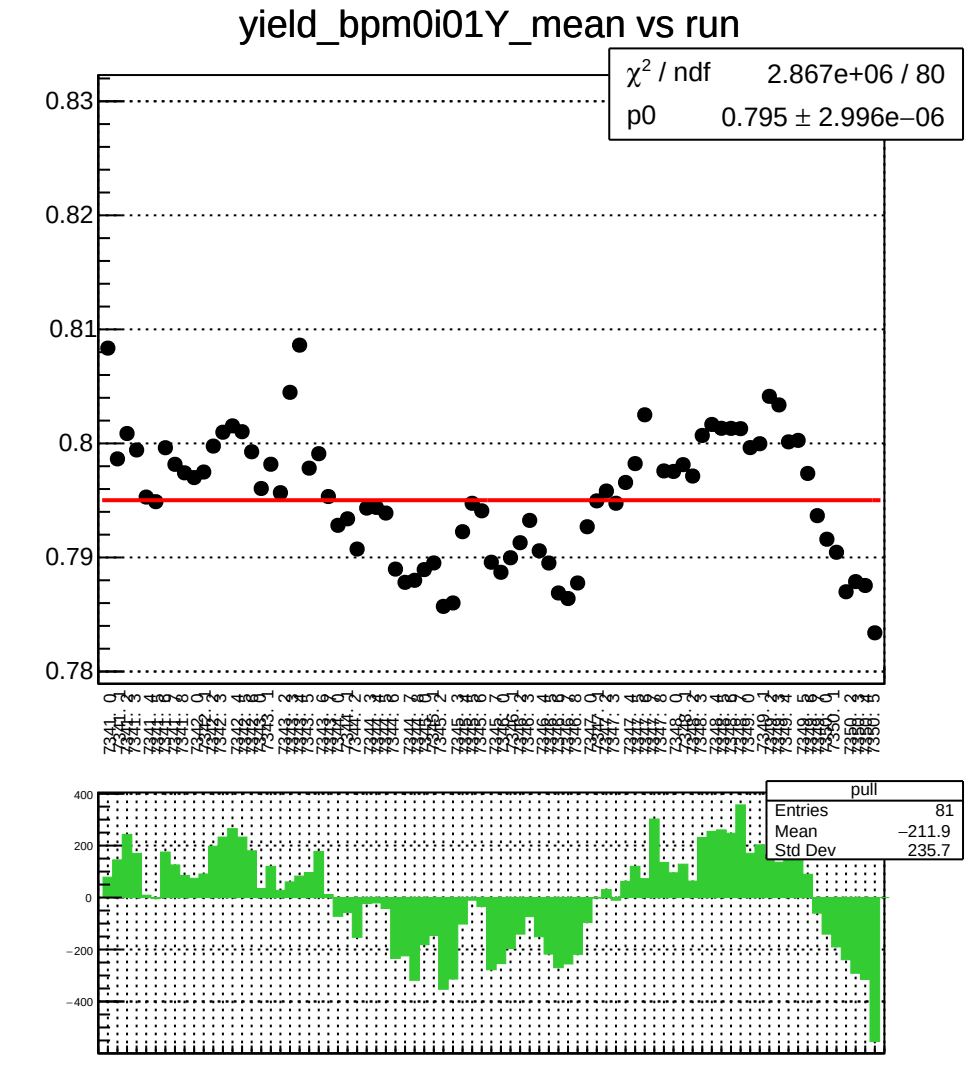

pull1D
Entries 81
Mean 7.184
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

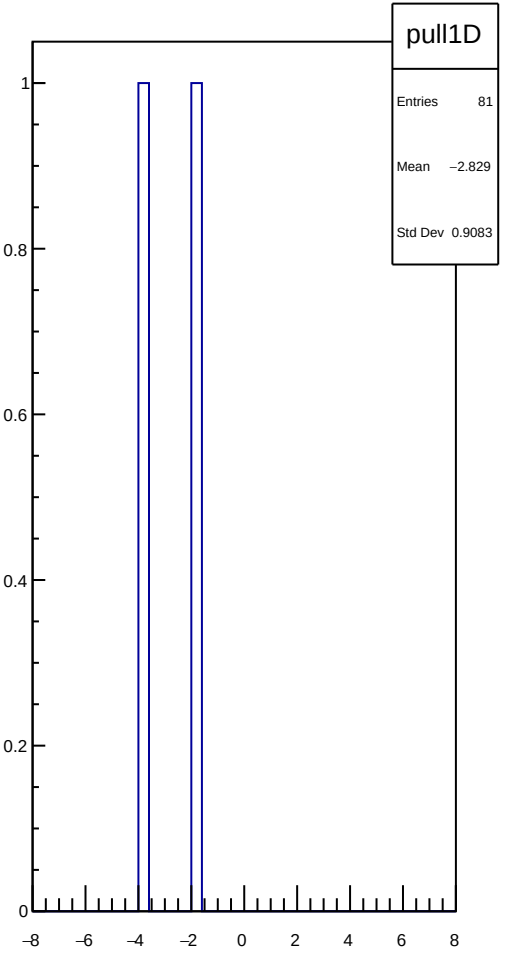

yield_bpm2i02Y_rms vs run
χ² / ndf 2227 / 80
p0 0.009339 ± 7.456e−06
0.0105
0.01
0.0095
0.009
0.0085

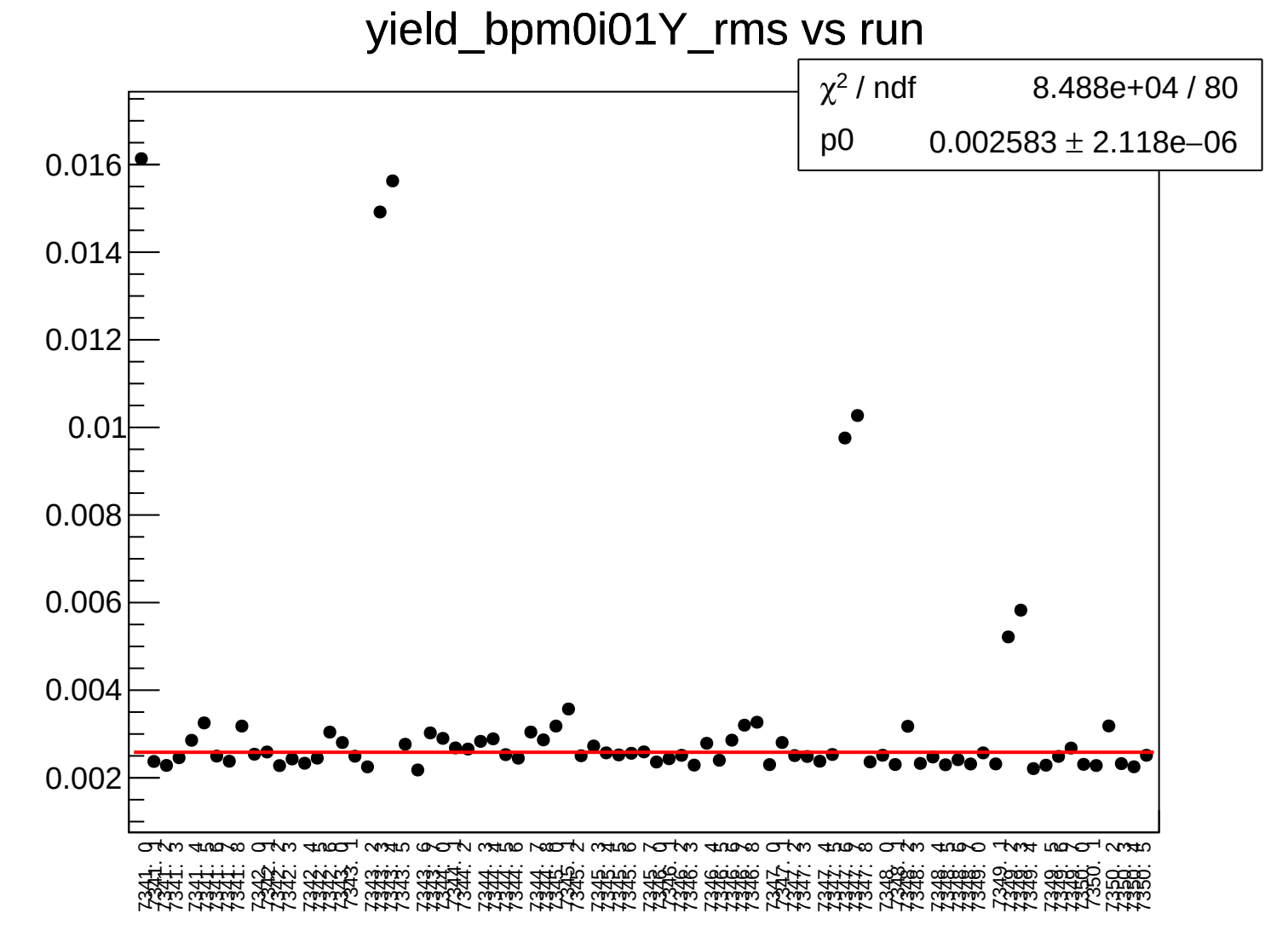

yield_bpm0i01X_mean vs run
χ² / ndf 1.107e+06 / 80
p0 −0.7561 ± 8.695e−06
−0.73
−0.74
−0.75
−0.76
−0.77
−0.78
pull
Entries 81
Mean −578.1
Std Dev 612.1
200
100
0
−100
−200
−300

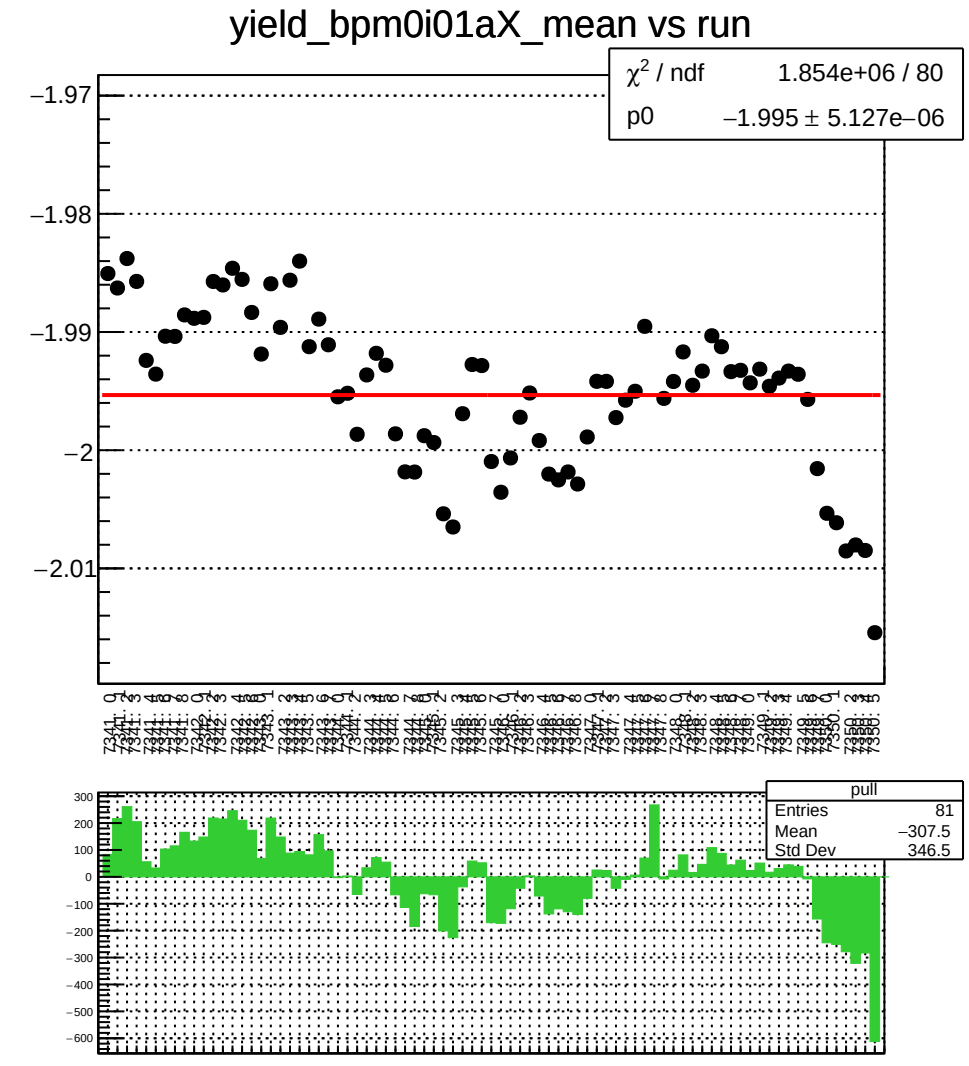

pull1D
Entries 81
Mean 1.241
Std Dev 2.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

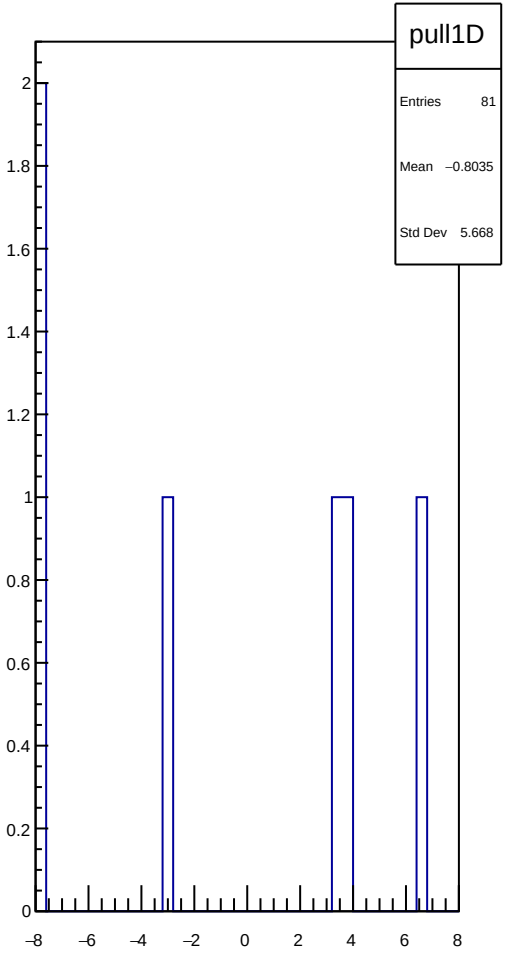

yield_bpm0i01X_rms vs run
χ² / ndf 2.229e+04 / 80
p0 0.007652 ± 6.149e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

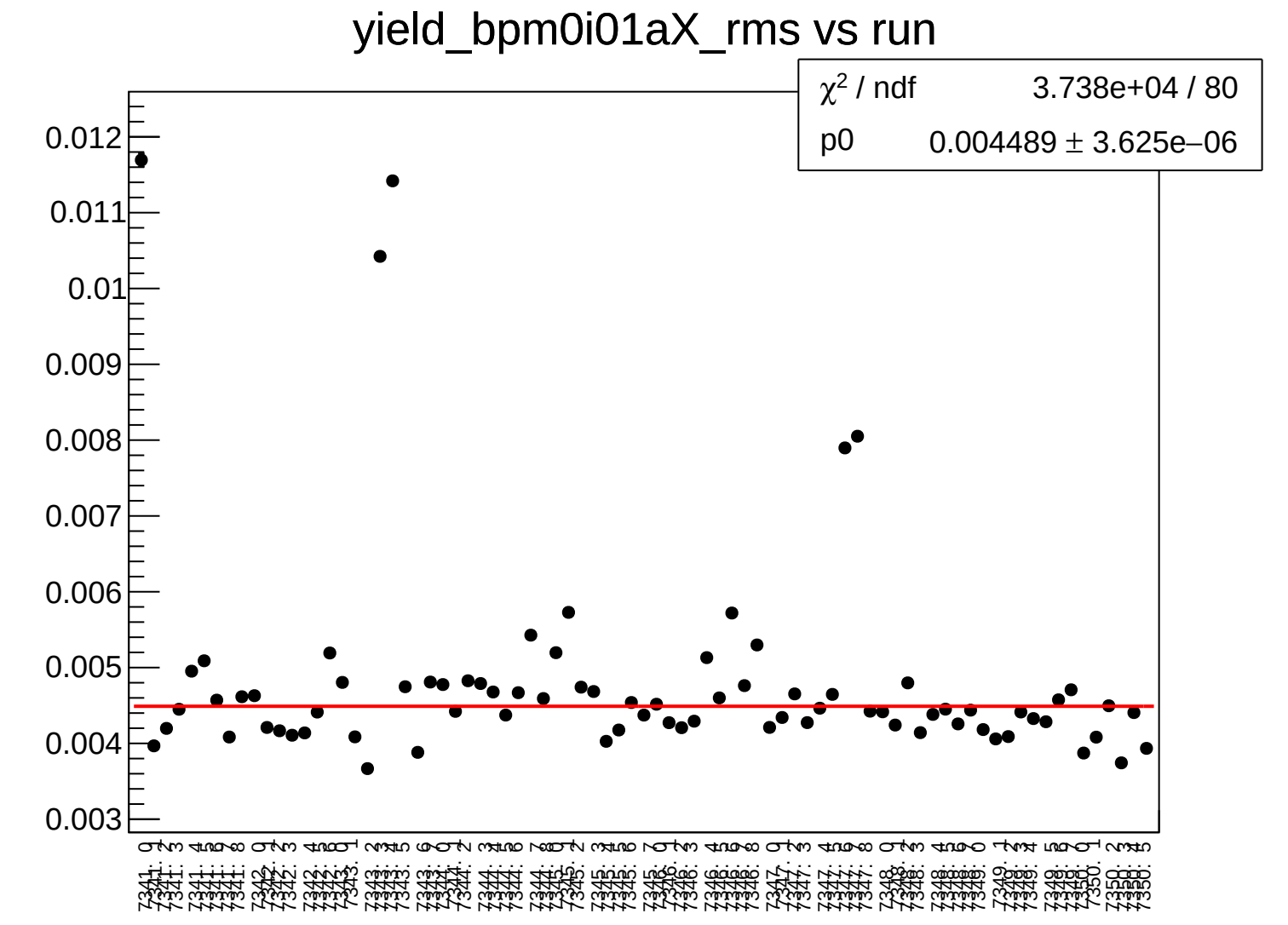

yield_bpm0i01Y_mean vs run
χ² / ndf 2.867e+06 / 80
p0 0.795 ± 2.996e−06
0.83
0.82
0.81
0.8
0.79
0.78
pull
Entries 81
Mean −211.9
Std Dev 235.7
400
200
0
−200
−400

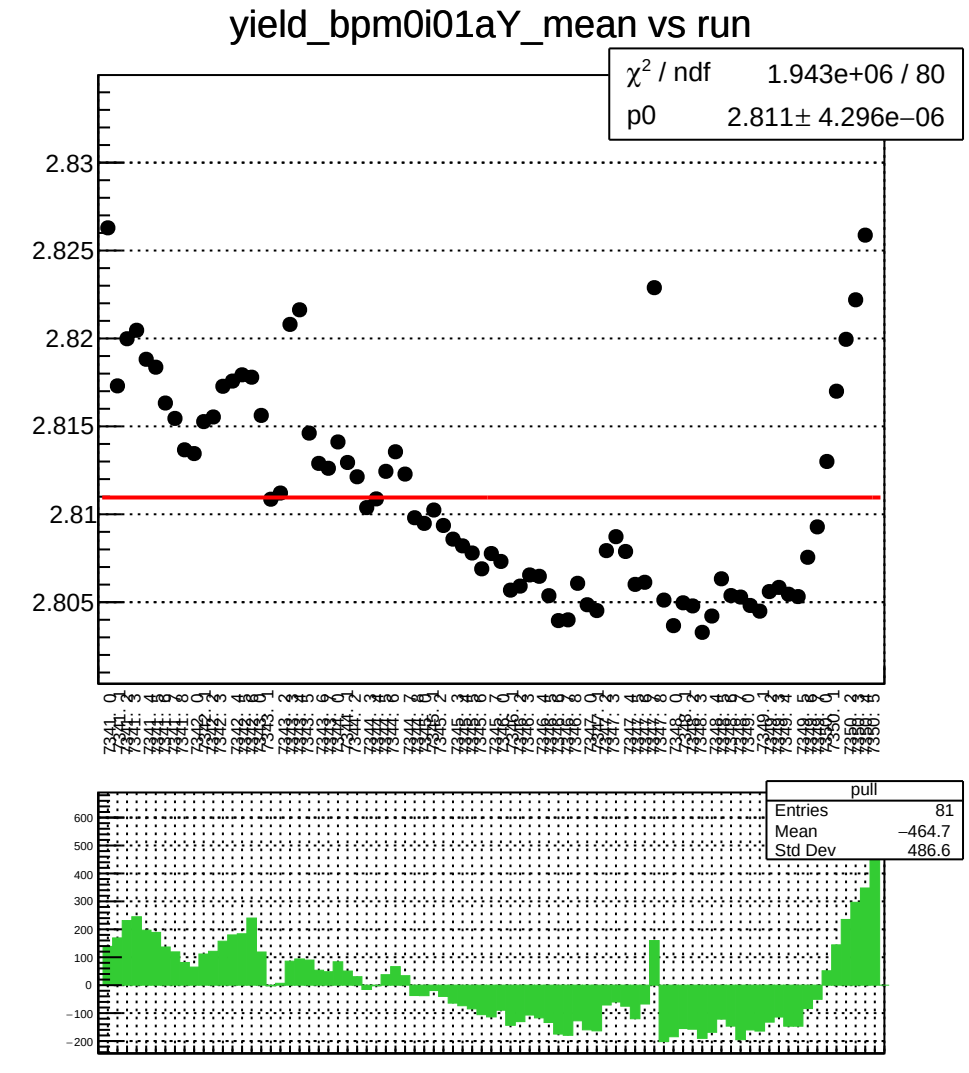

pull1D
Entries 81
Mean −2.829
Std Dev 0.9083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

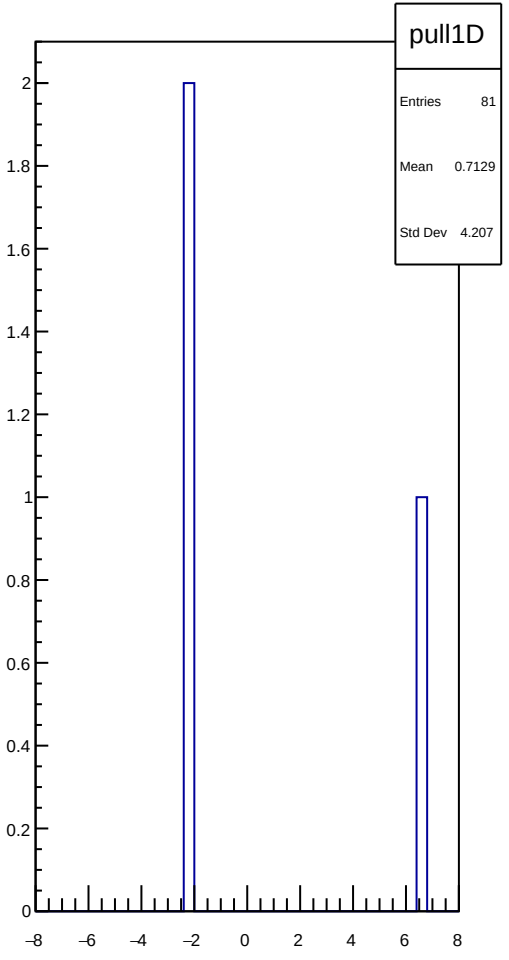

yield_bpm0i01Y_rms vs run
χ² / ndf 8.488e+04 / 80
p0 0.002583 ± 2.118e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

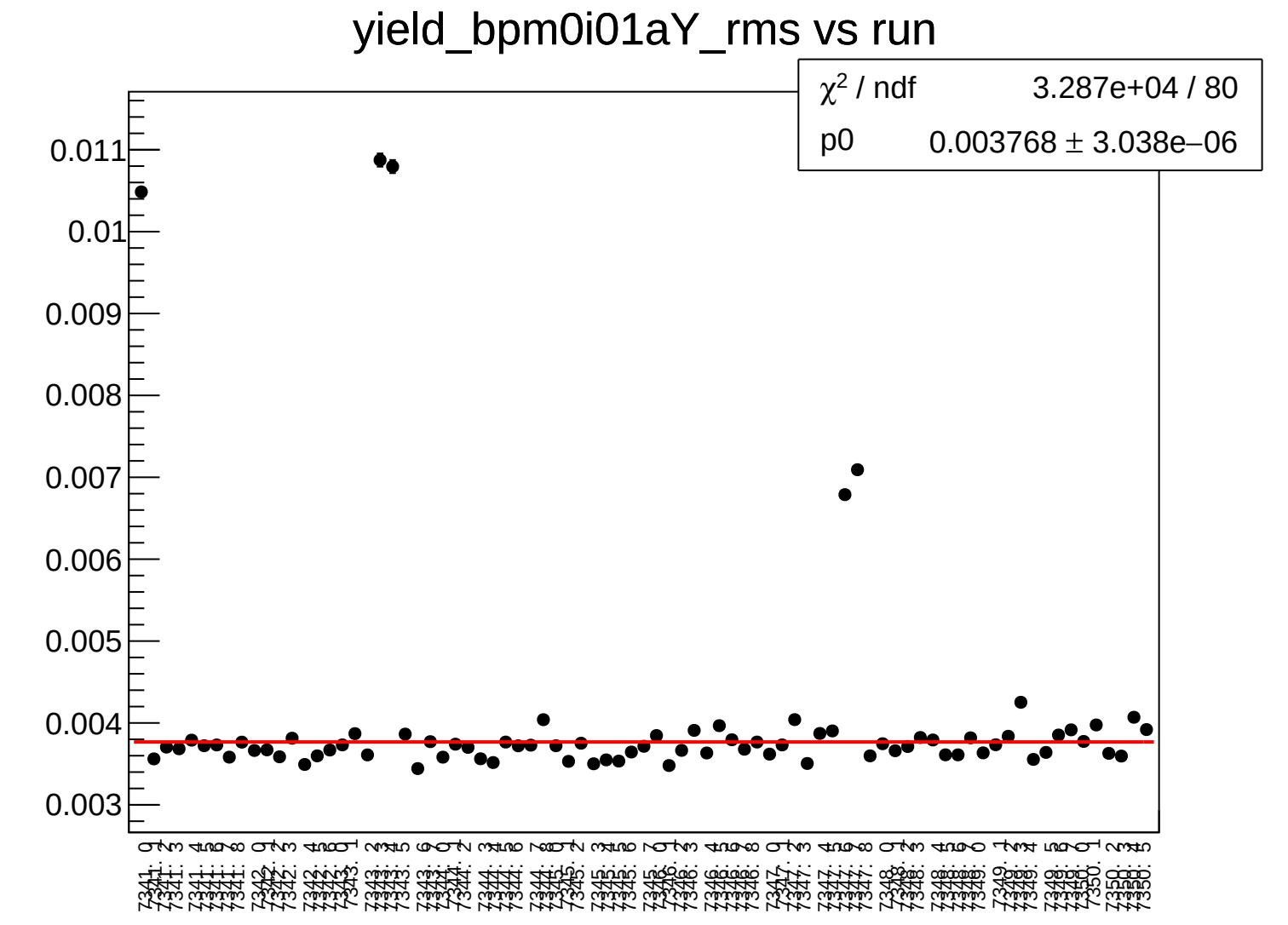

yield_bpm0i01aX_mean vs run
χ² / ndf 1.854e+06 / 80
p0 −1.995 ± 5.127e−06
−1.97
−1.98
−1.99
−2
−2.01
pull
Entries 81
Mean −307.5
Std Dev 346.5
300
200
100
0
−100
−200
−300
−400
−500
−600

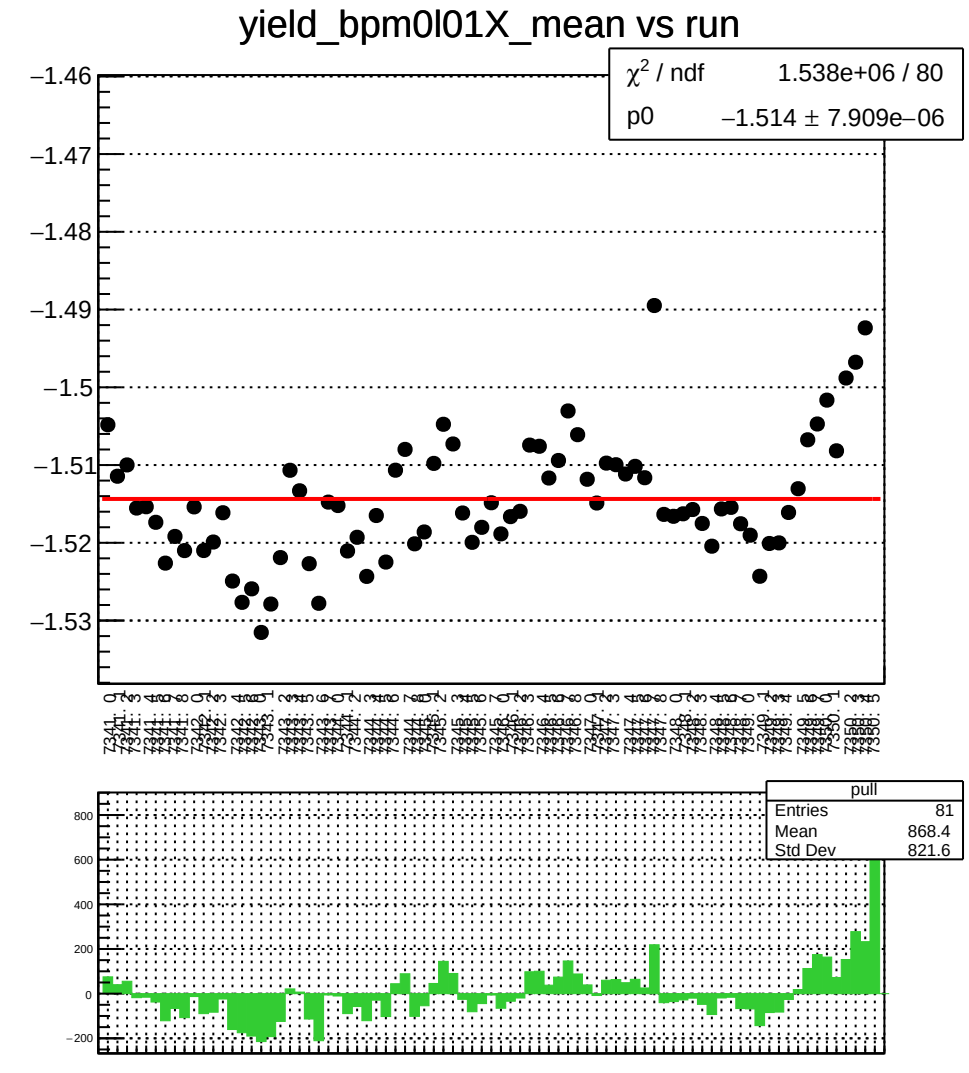

pull1D
Entries 81
Mean −0.8035
Std Dev 5.668
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

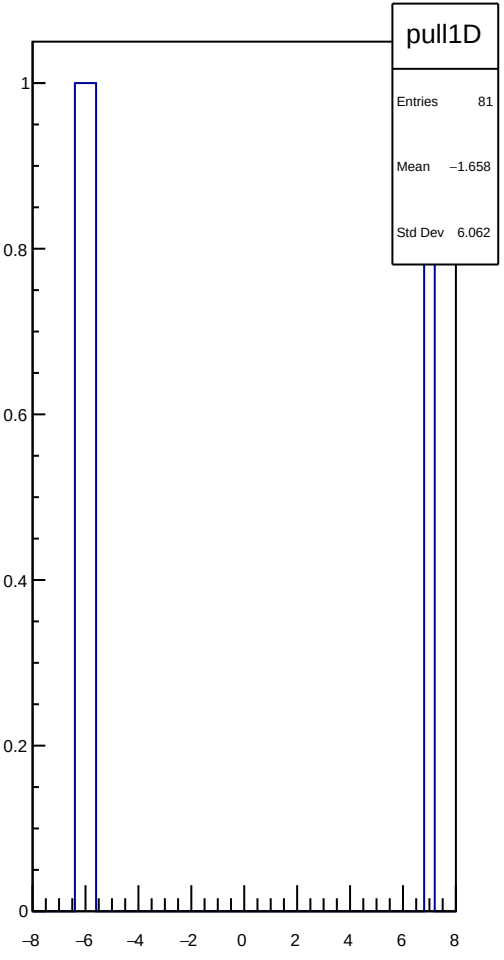

yield_bpm0i01aX_rms vs run
χ² / ndf 3.738e+04 / 80
p0 0.004489 ± 3.625e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

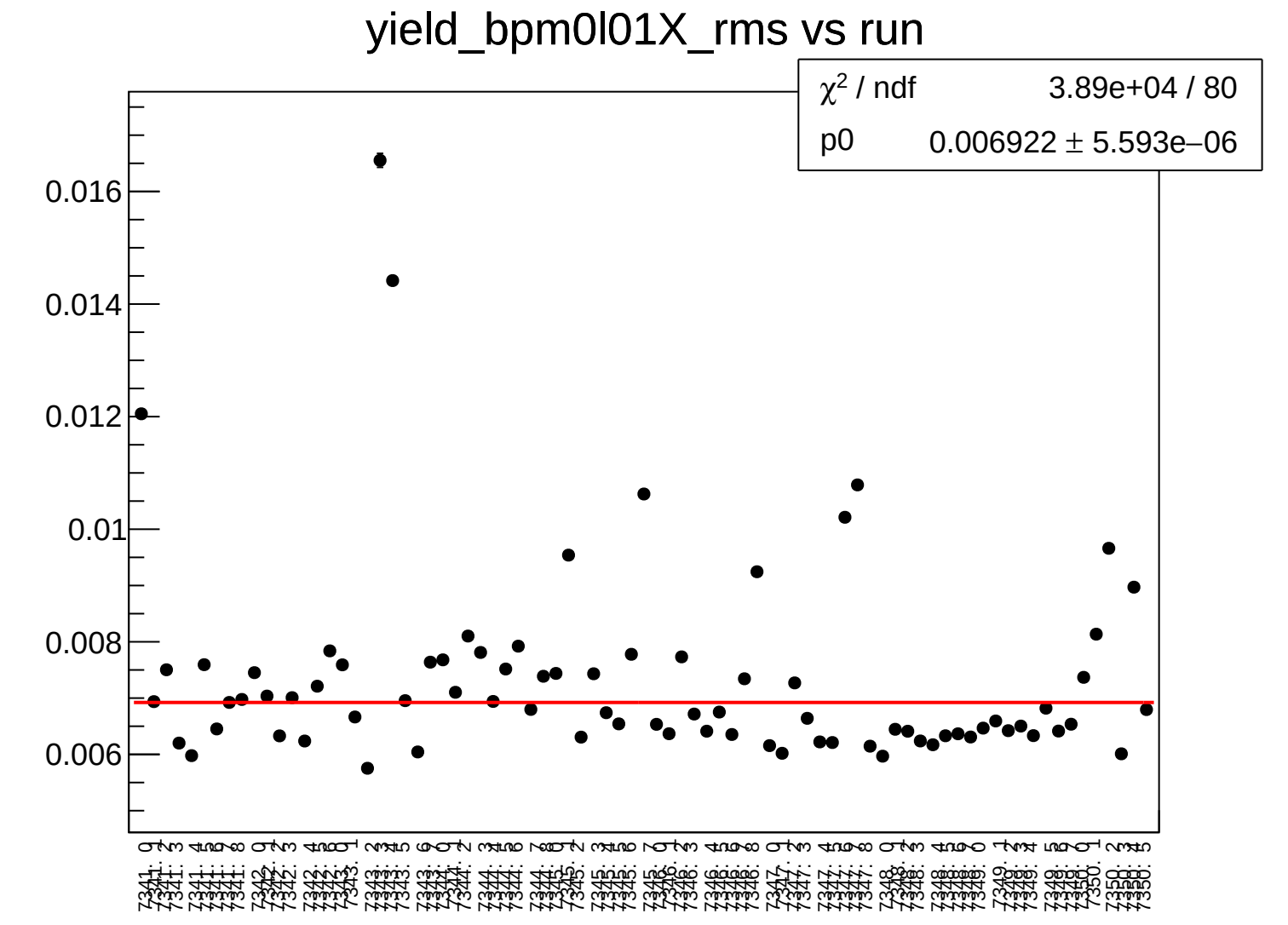

yield_bpm0i01aY_mean vs run
χ² / ndf 1.943e+06 / 80
p0 2.811± 4.296e−06
2.83
2.825
2.82
2.815
2.81
2.805
pull
Entries 81
Mean −464.7
Std Dev 486.6
600
500
400
300
200
100
0
−100
−200

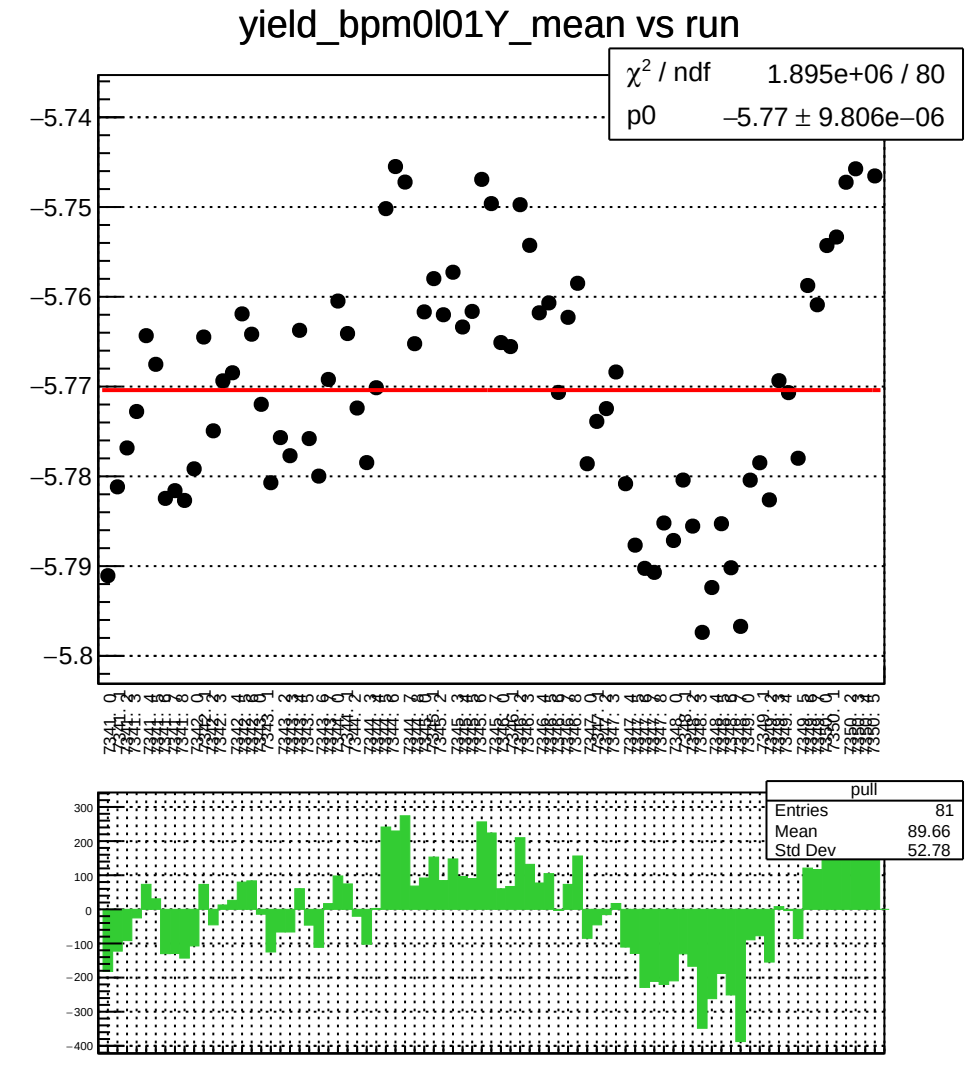

pull1D
Entries 81
Mean 0.7129
Std Dev 4.207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

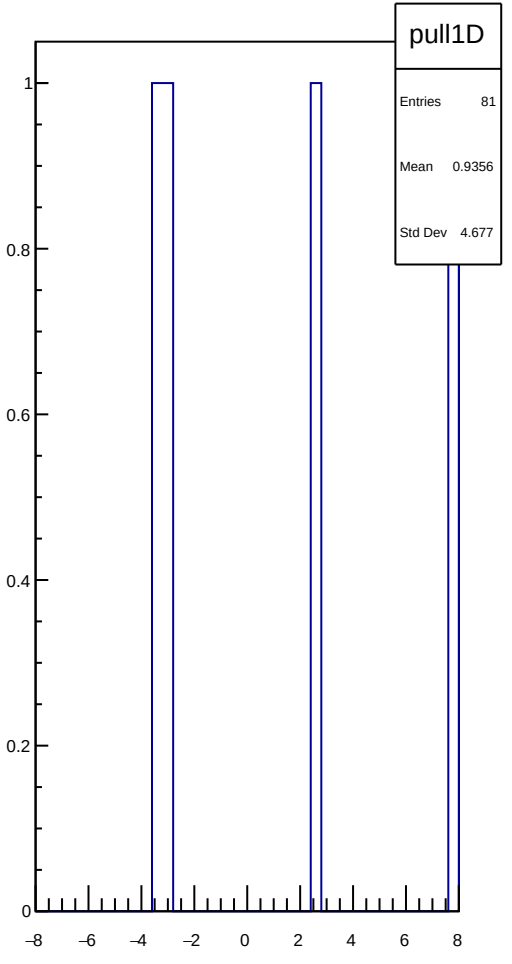

yield_bpm0i01aY_rms vs run
χ^2 / ndf 3.287e+04 / 80
p0 0.003768 ± 3.038e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

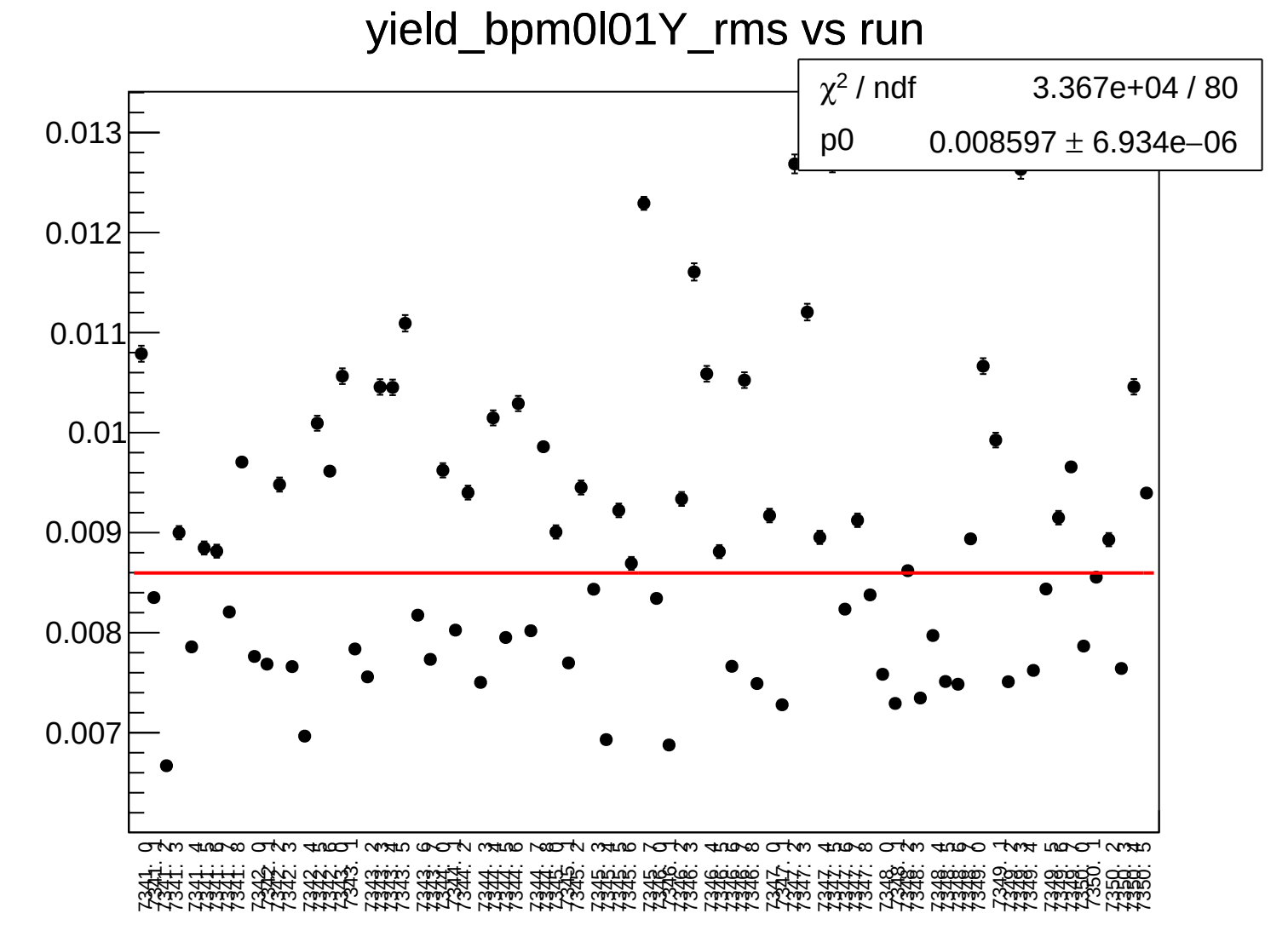

yield_bpm0l01X_mean vs run
χ² / ndf 1.538e+06 / 80
p0 −1.514 ± 7.909e−06
pull
Entries 81
Mean 868.4
Std Dev 821.6

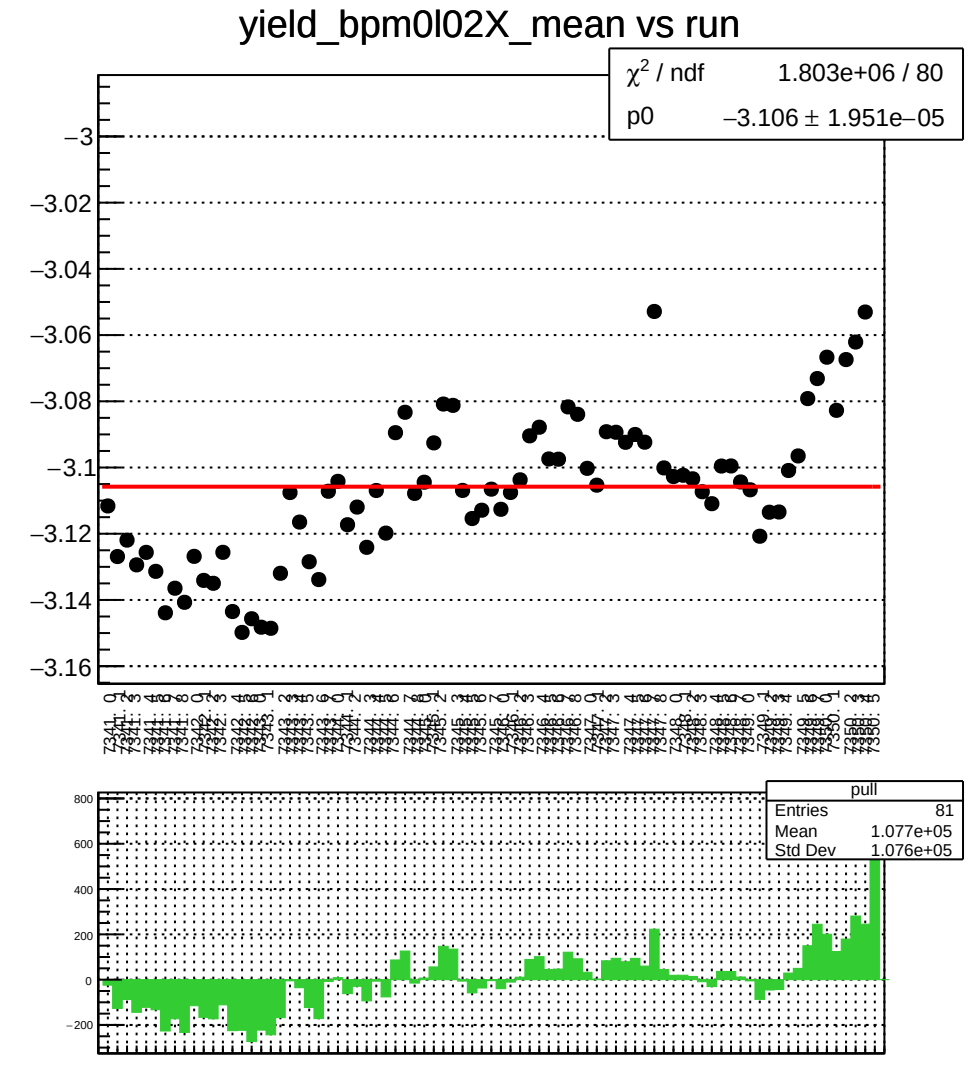

pull1D
Entries 81
Mean −1.658
Std Dev 6.062

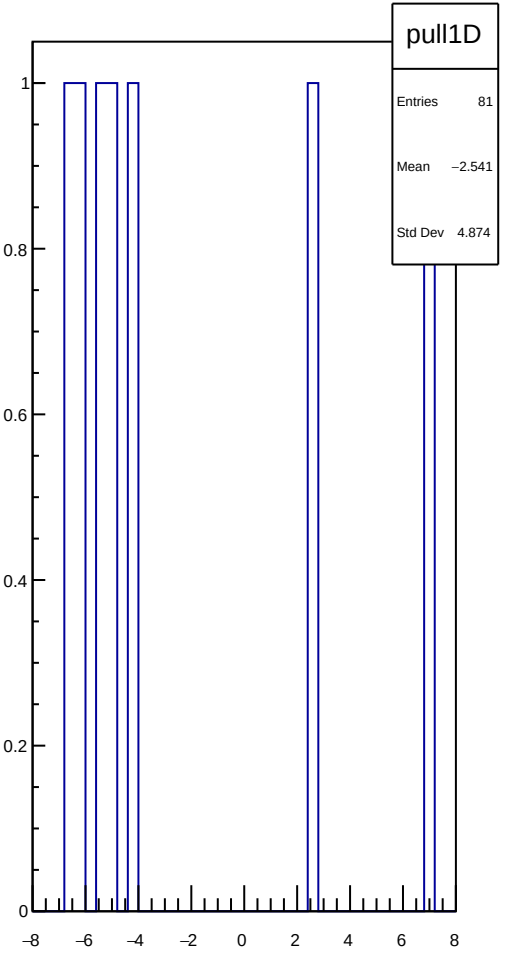

yield_bpm0l01X_rms vs run
χ² / ndf 3.89e+04 / 80
p0 0.006922 ± 5.593e−06
0.016
0.014
0.012
0.01
0.008
0.006

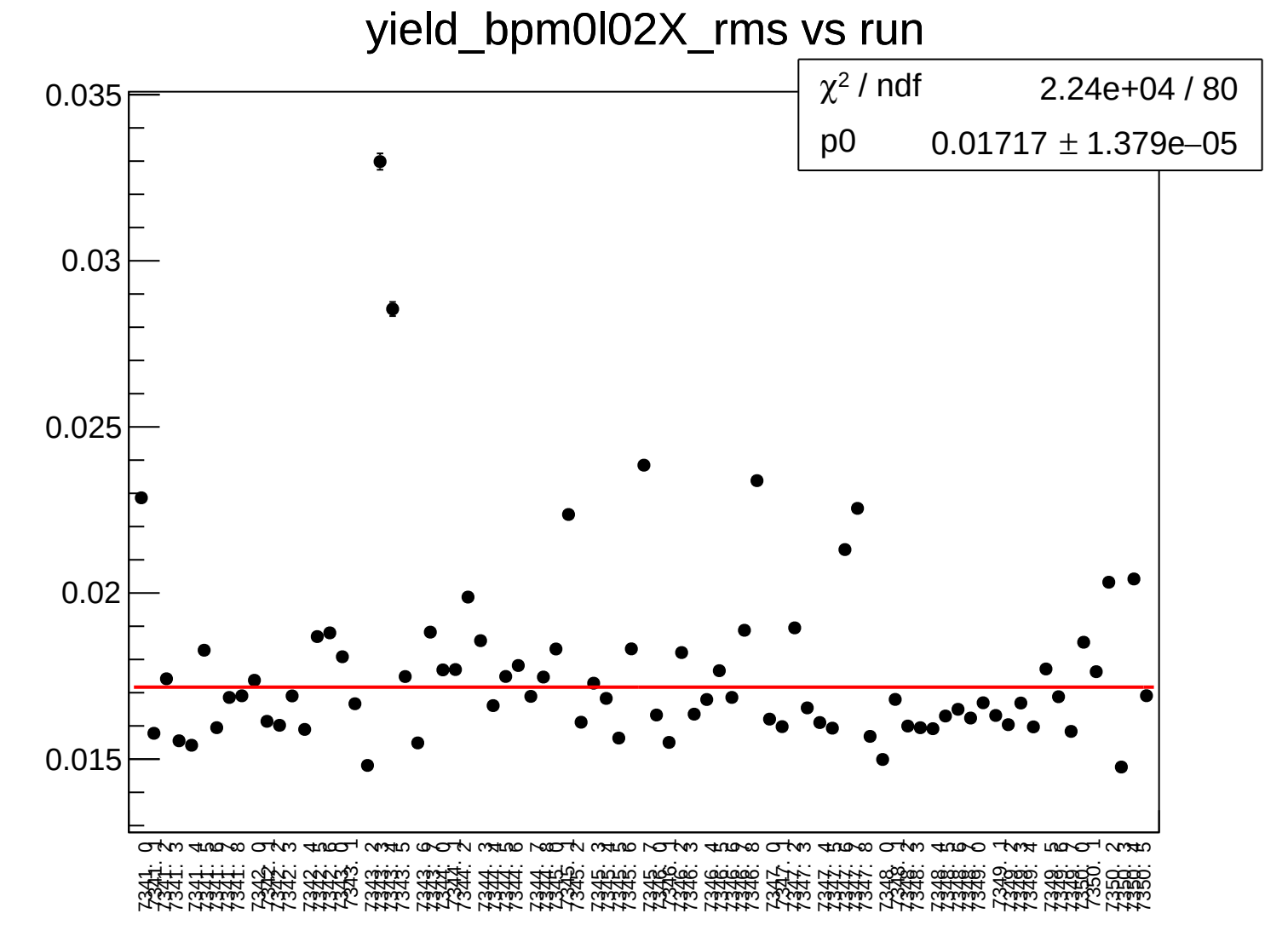

yield_bpm0l01Y_mean vs run
χ² / ndf 1.895e+06 / 80
p0 −5.77 ± 9.806e−06
−5.74
−5.75
−5.76
−5.77
−5.78
−5.79
−5.8
pull
Entries 81
Mean 89.66
Std Dev 52.78
300
200
100
0
−100
−200
−300
−400

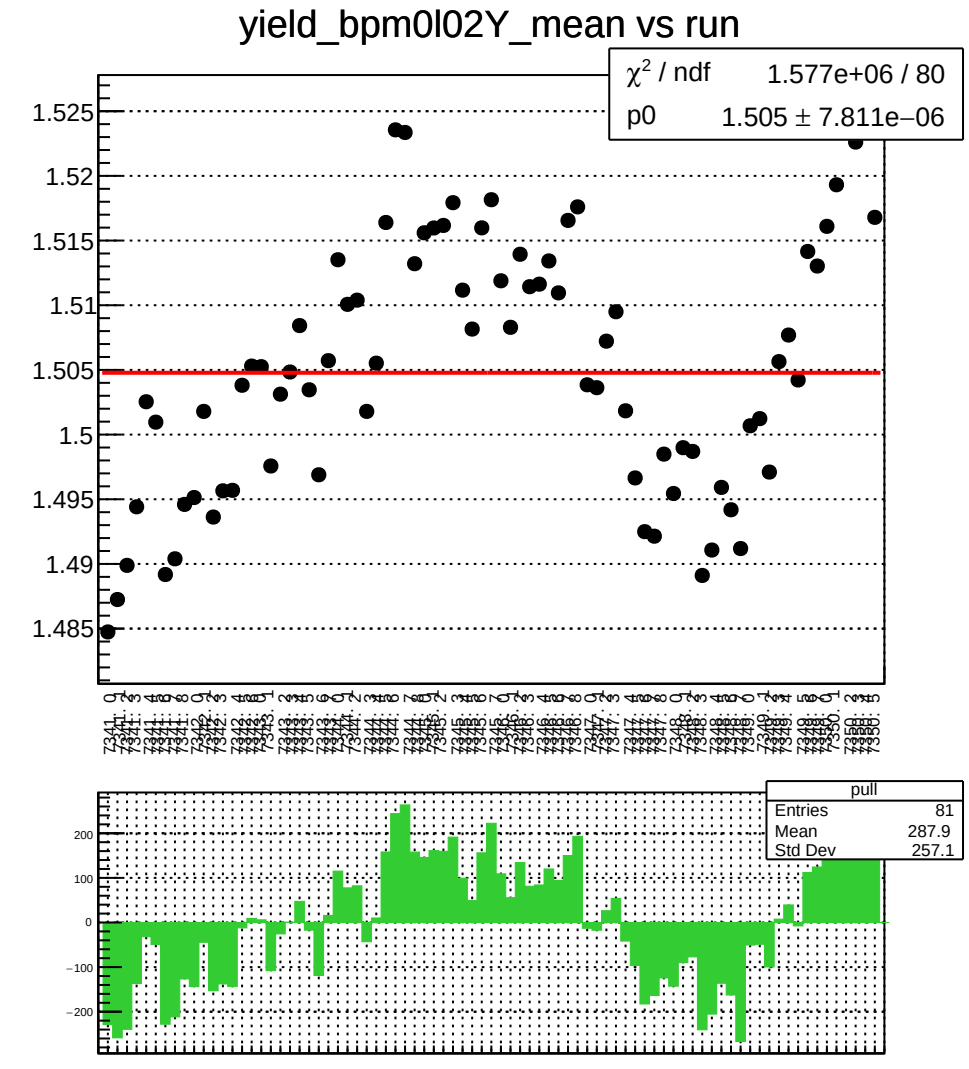

pull1D
Entries 81
Mean 0.9356
Std Dev 4.677
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

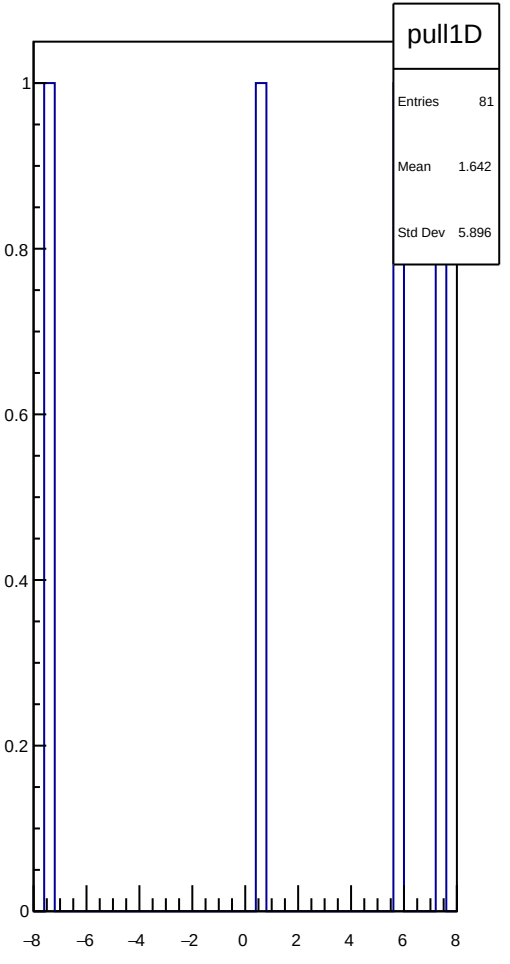

yield_bpm0l01Y_rms vs run
χ² / ndf 3.367e+04 / 80
p0 0.008597 ± 6.934e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

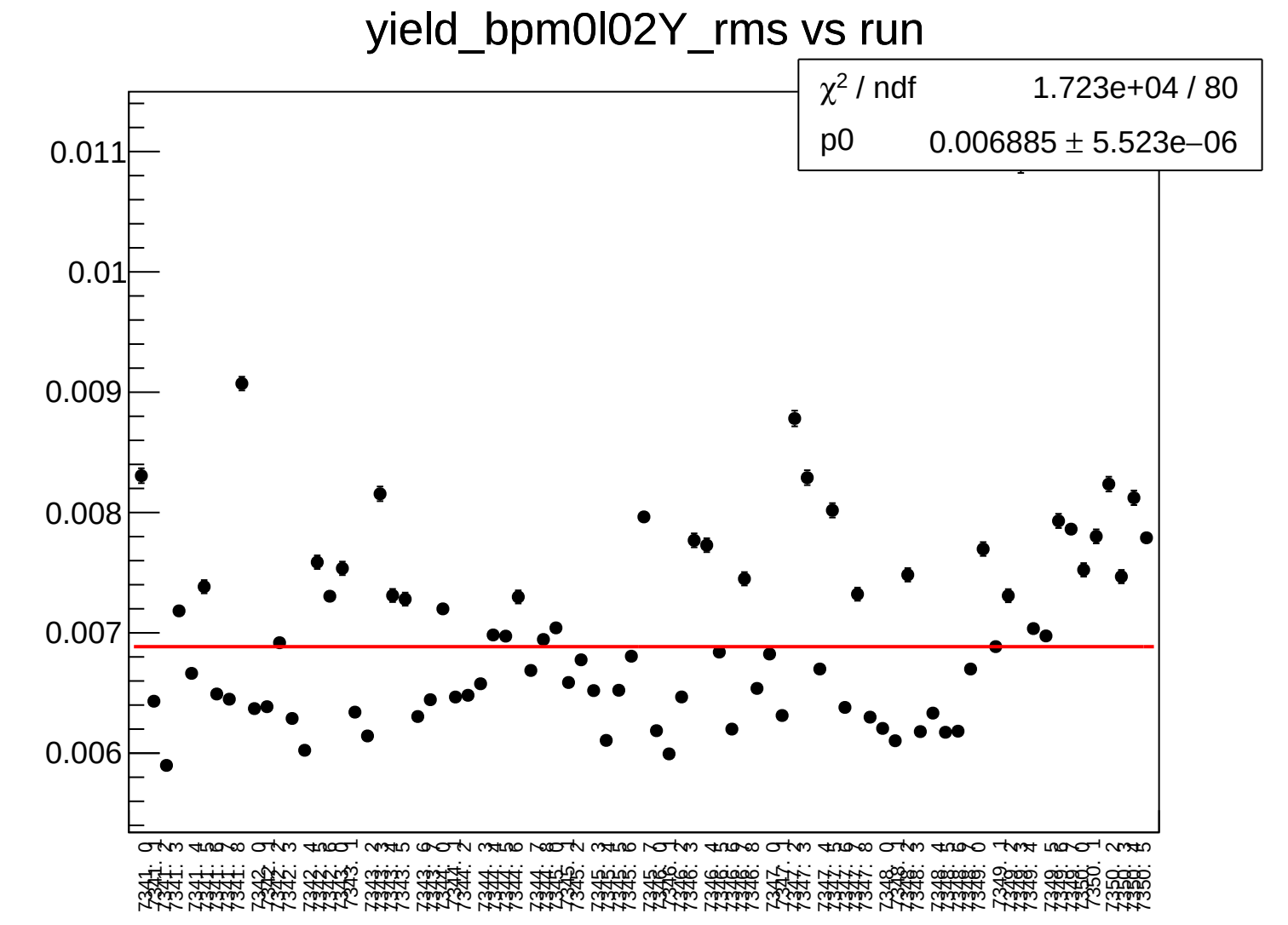

yield_bpm0l02X_mean vs run
χ² / ndf 1.803e+06 / 80
p0 −3.106 ± 1.951e−05
pull
Entries 81
Mean 1.077e+05
Std Dev 1.076e+05

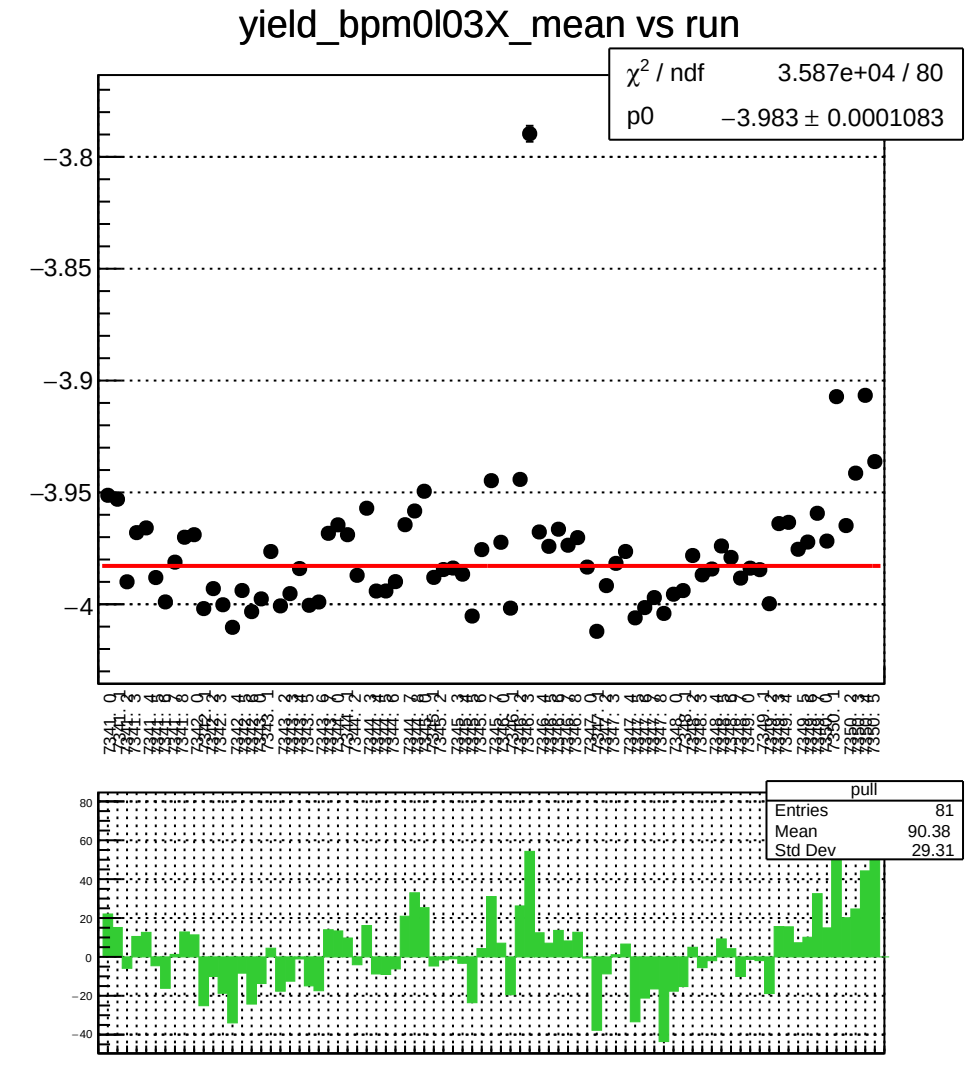

pull1D
Entries 81
Mean −2.541
Std Dev 4.874

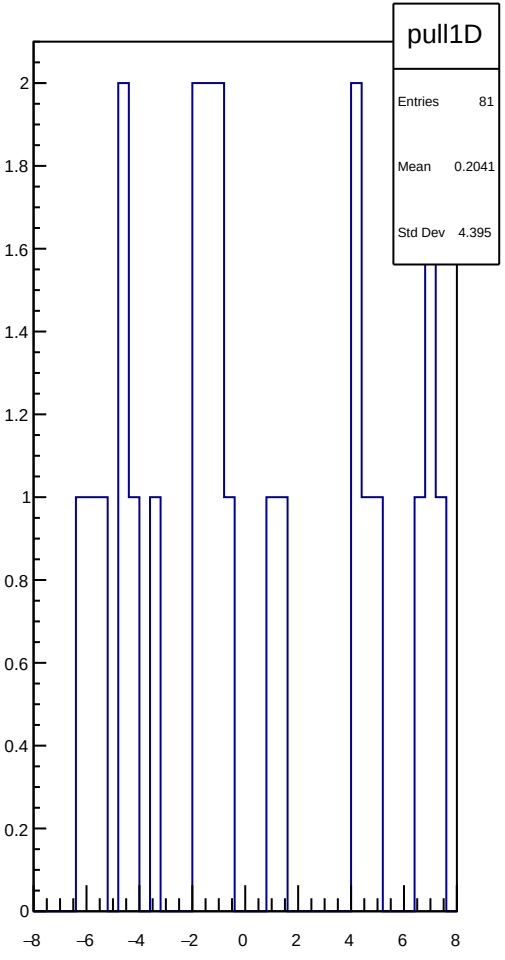

yield_bpm0l02X_rms vs run
χ² / ndf 2.24e+04 / 80
p0 0.01717 ± 1.379e−05
0.035
0.03
0.025
0.02
0.015

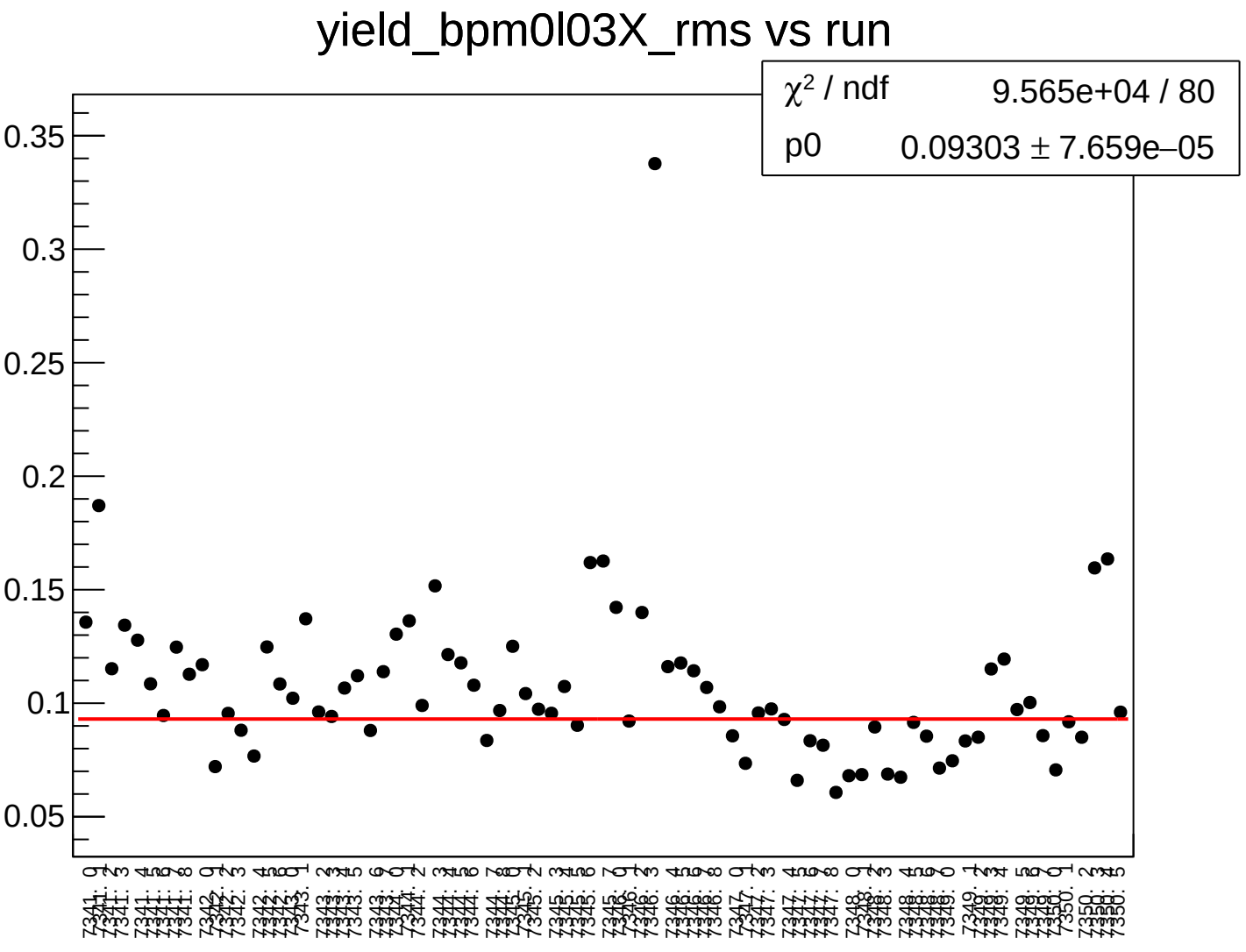

yield_bpm0l02Y_mean vs run
χ² / ndf 1.577e+06 / 80
p0 1.505 ± 7.811e−06
1.525
1.52
1.515
1.51
1.505
1.5
1.495
1.49
1.485
pull
Entries 81
Mean 287.9
Std Dev 257.1
200
100
0
−100
−200

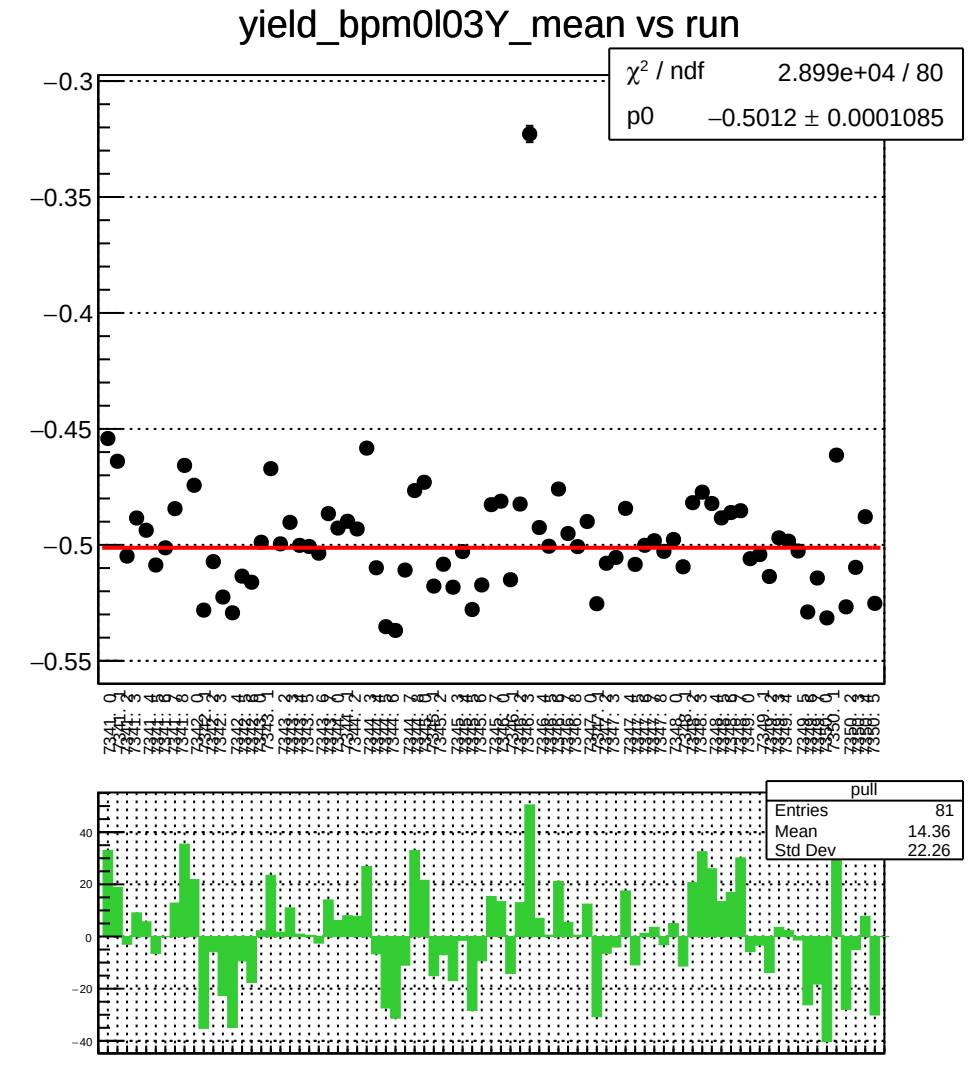

pull1D
Entries 81
Mean 1.642
Std Dev 5.896
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

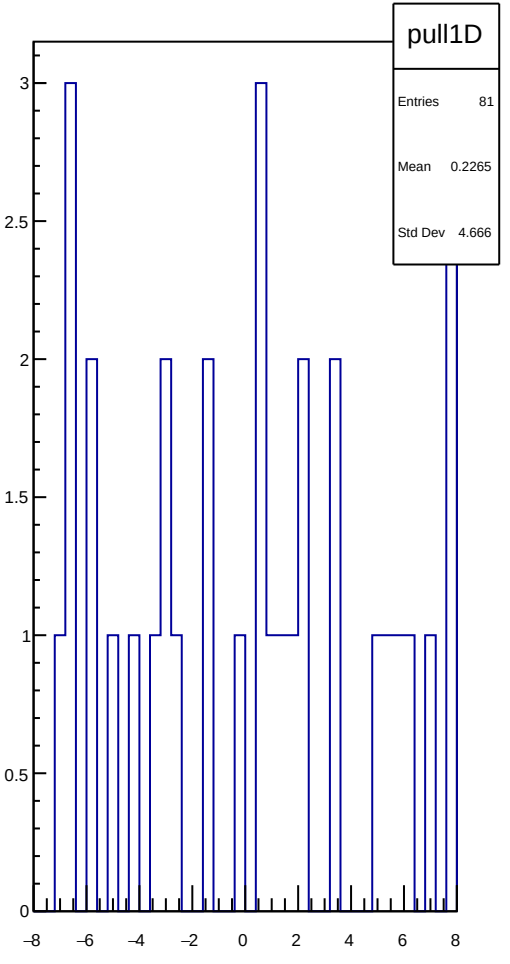

yield_bpm0l02Y_rms vs run
χ² / ndf 1.723e+04 / 80
p0 0.006885 ± 5.523e−06
0.011
0.01
0.009
0.008
0.007
0.006

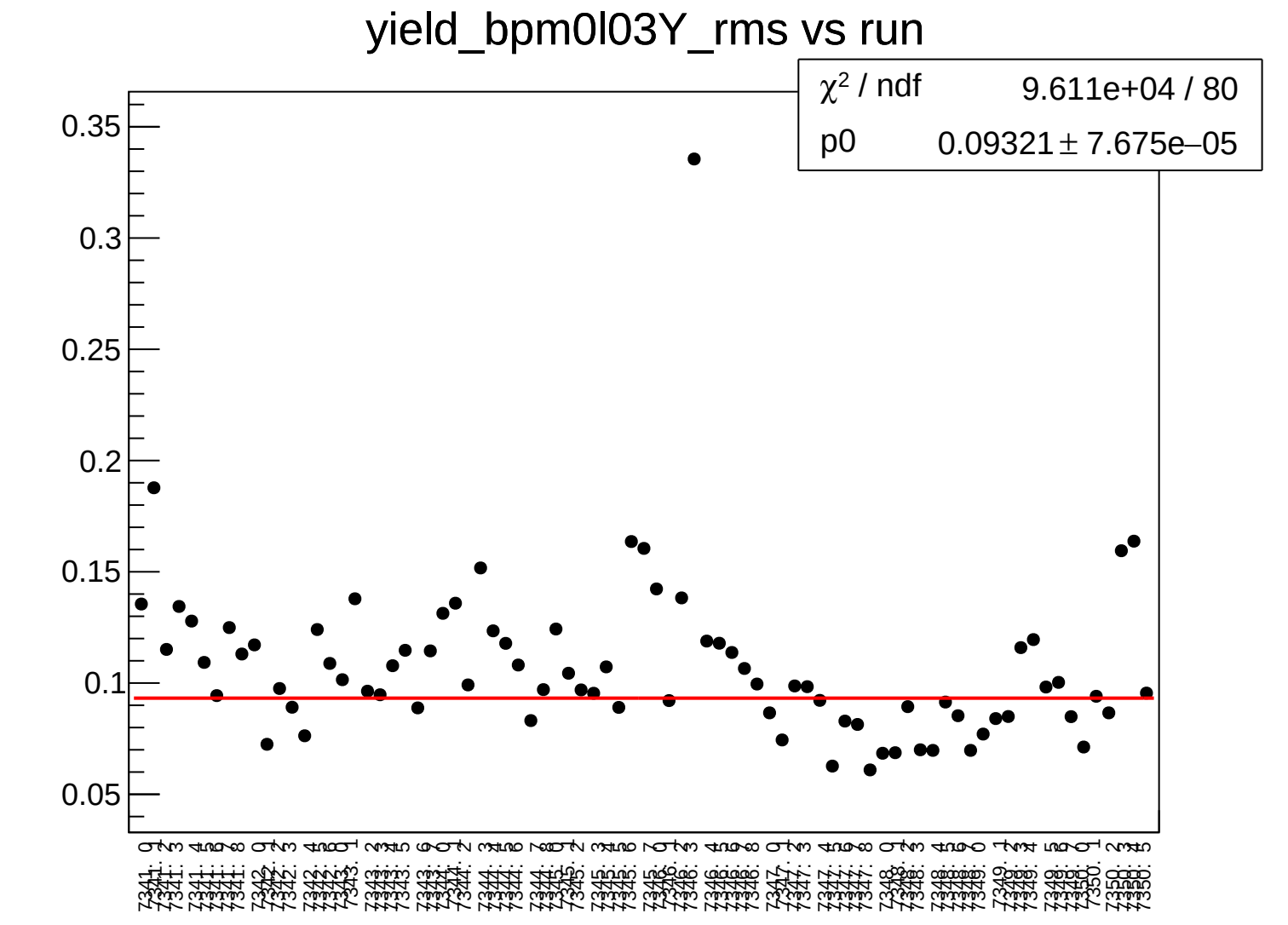

yield_bpm0l03X_mean vs run
χ² / ndf 3.587e+04 / 80
p0 −3.983 ± 0.0001083
−3.8
−3.85
−3.9
−3.95
−4
pull
Entries 81
Mean 90.38
Std Dev 29.31
80
60
40
20
0
−20
−40

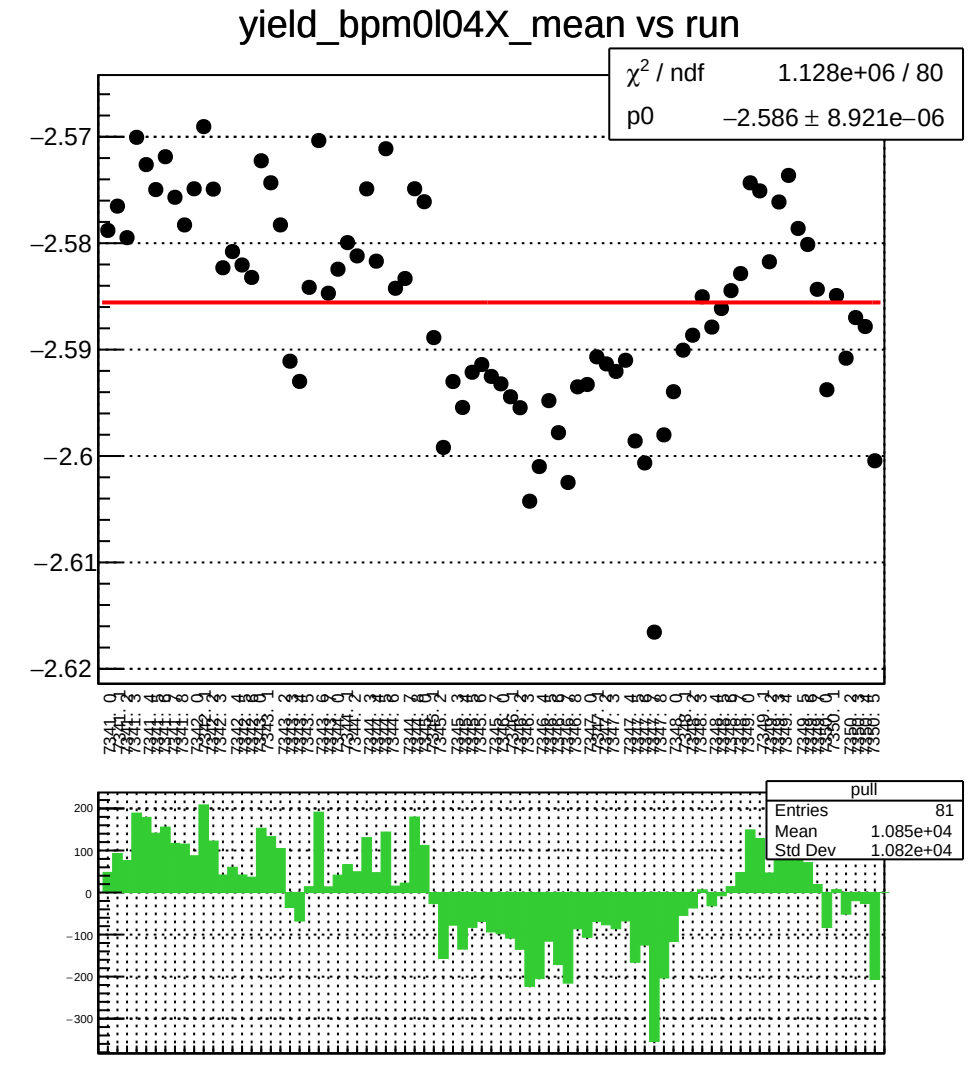

pull1D
Entries 81
Mean 0.2041
Std Dev 4.395
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

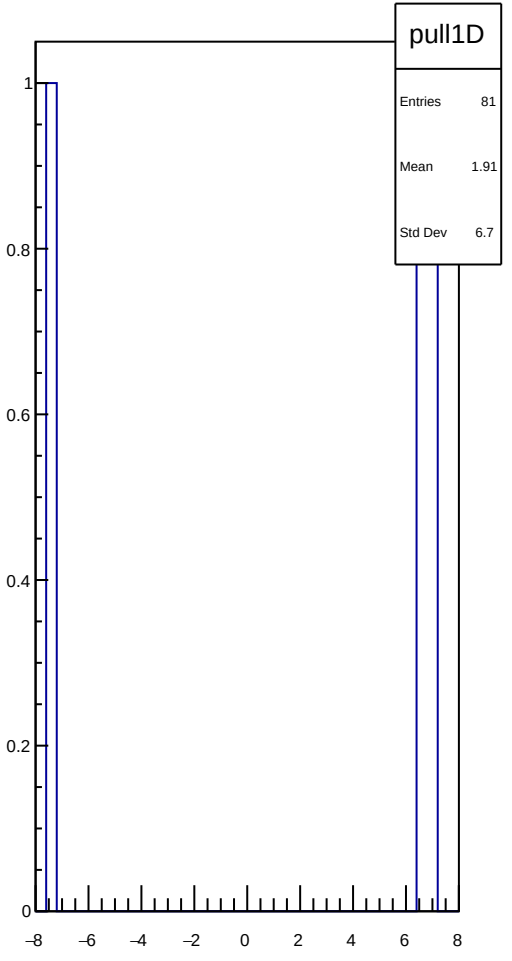

yield_bpm0l03X_rms vs run
χ² / ndf 9.565e+04 / 80
p0 0.09303 ± 7.659e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

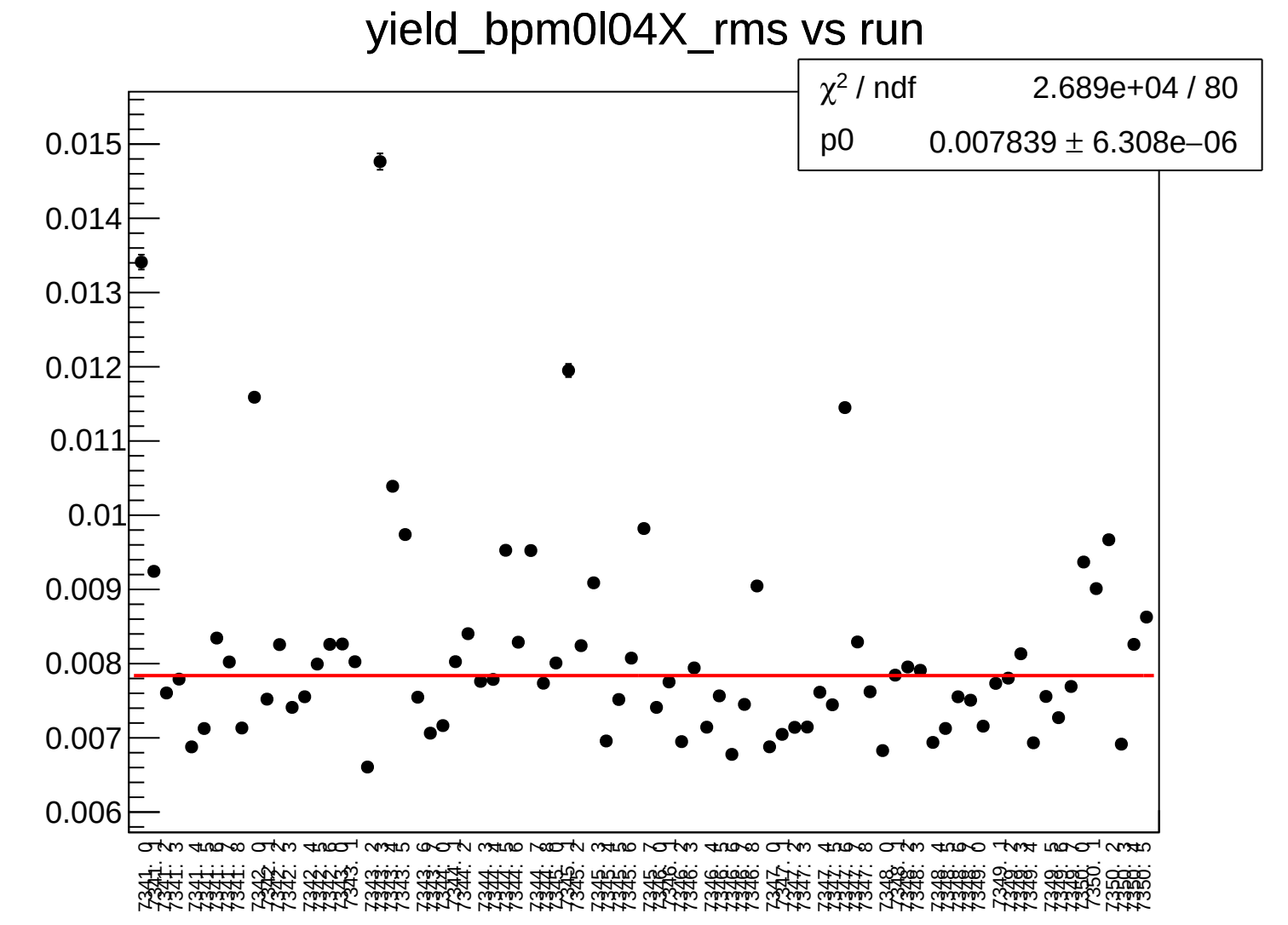

yield_bpm0l03Y_mean vs run
χ² / ndf 2.899e+04 / 80
p0 −0.5012 ± 0.0001085
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 81
Mean 14.36
Std Dev 22.26
40
20
0
−20
−40

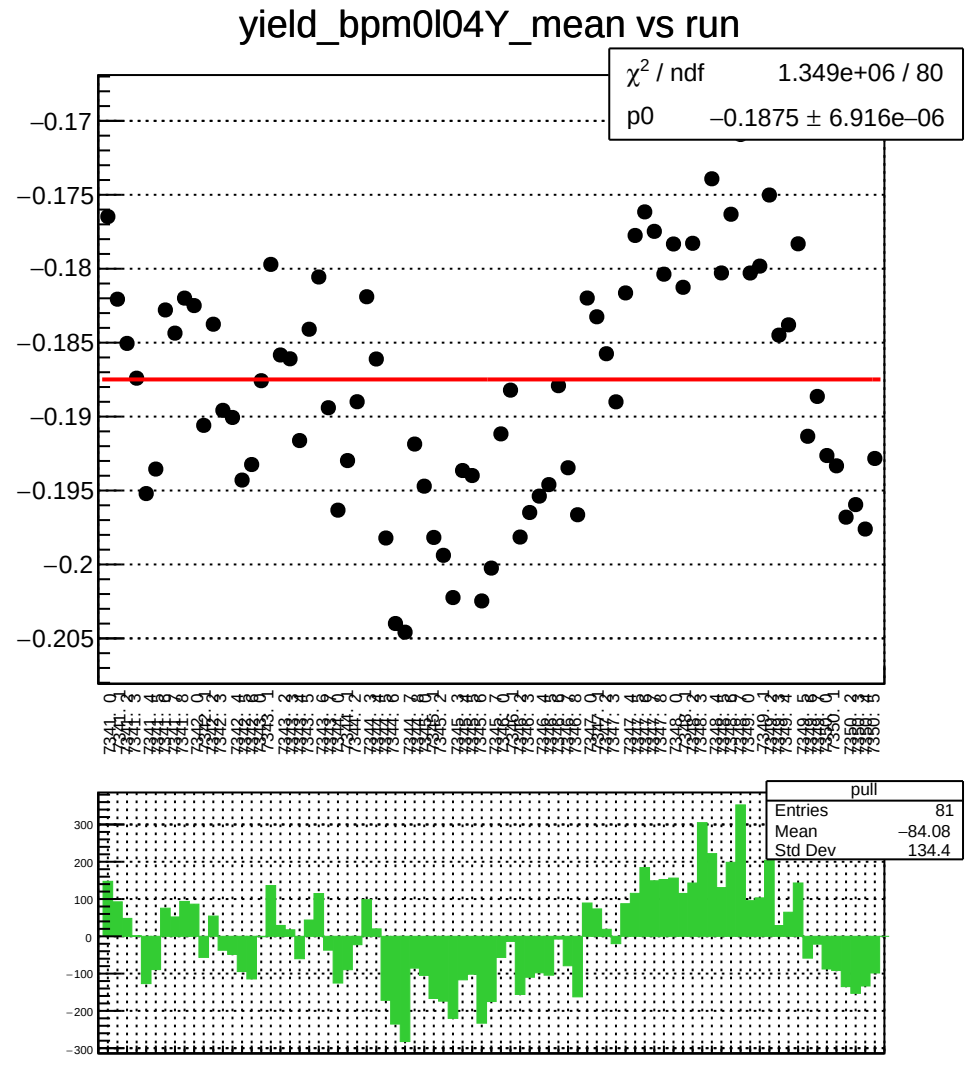

pull1D
Entries 81
Mean 0.2265
Std Dev 4.666
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

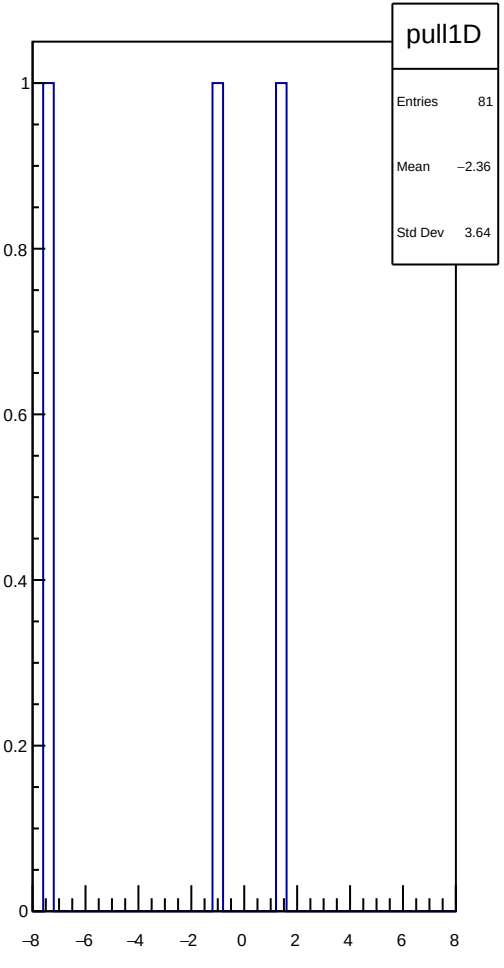

yield_bpm0l03Y_rms vs run
χ² / ndf 9.611e+04 / 80
p0 0.09321 ± 7.675e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

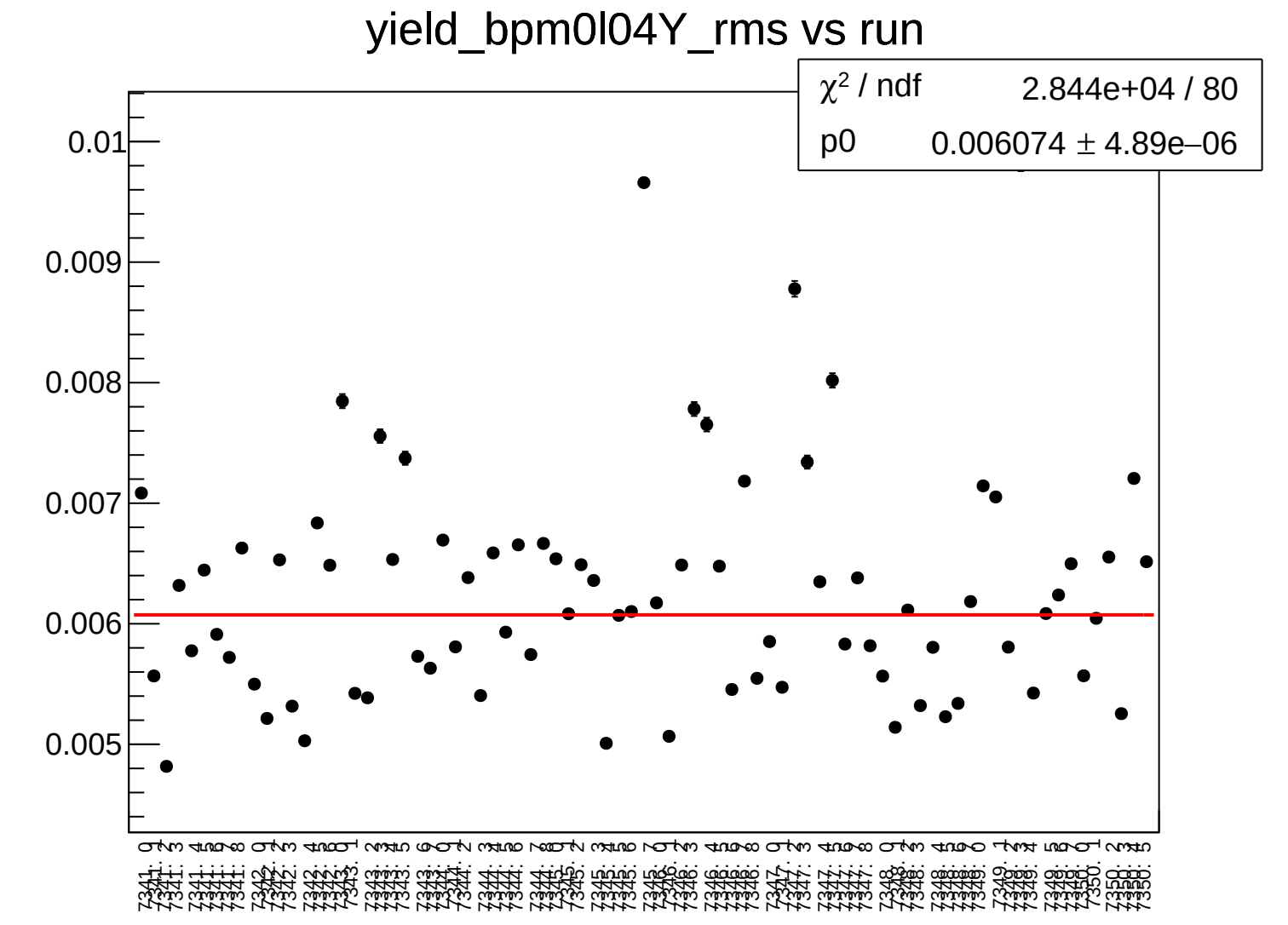

yield_bpm0l04X_mean vs run
χ² / ndf 1.128e+06 / 80
p0 −2.586 ± 8.921e−06
−2.57
−2.58
−2.59
−2.6
−2.61
−2.62
pull
Entries 81
Mean 1.085e+04
Std Dev 1.082e+04
200
100
0
−100
−200
−300

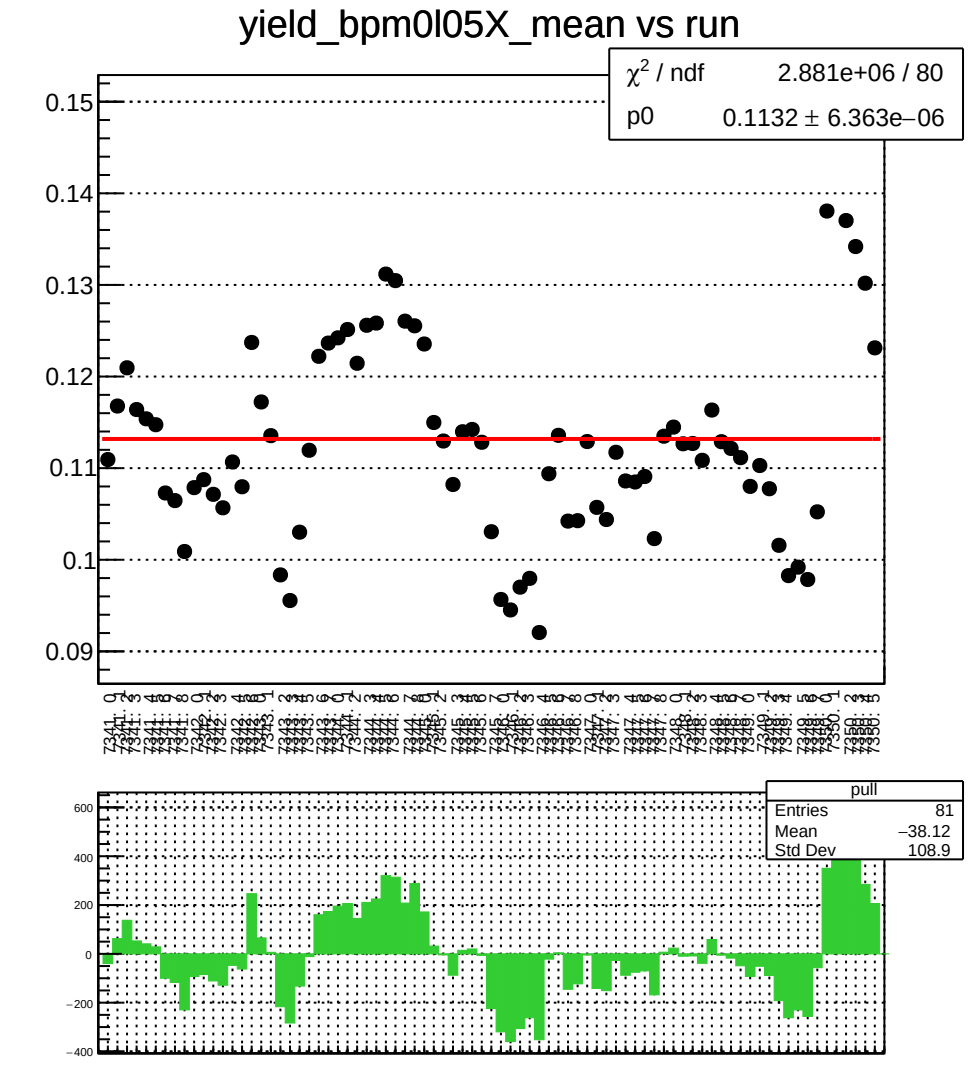

pull1D
Entries 81
Mean 1.91
Std Dev 6.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

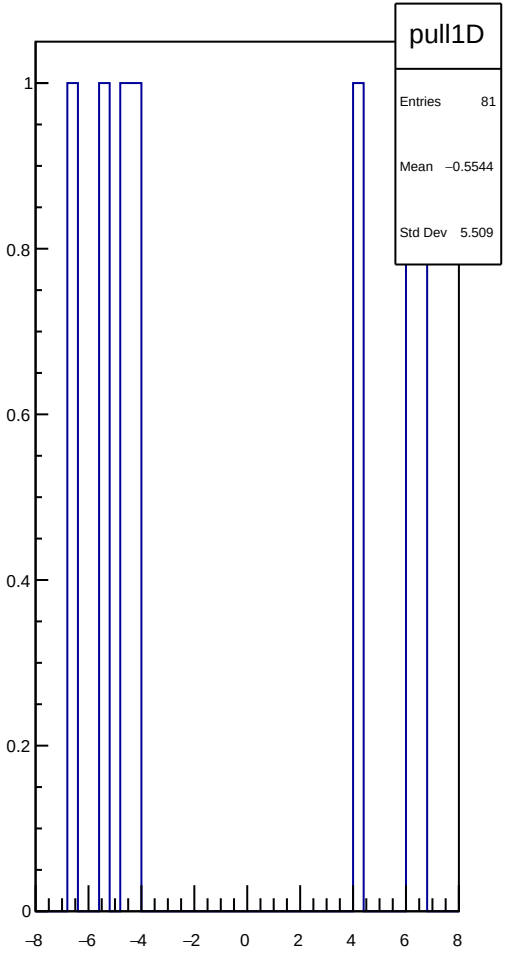

yield_bpm0l04X_rms vs run
χ^2 / ndf 2.689e+04 / 80
p0 0.007839 ± 6.308e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

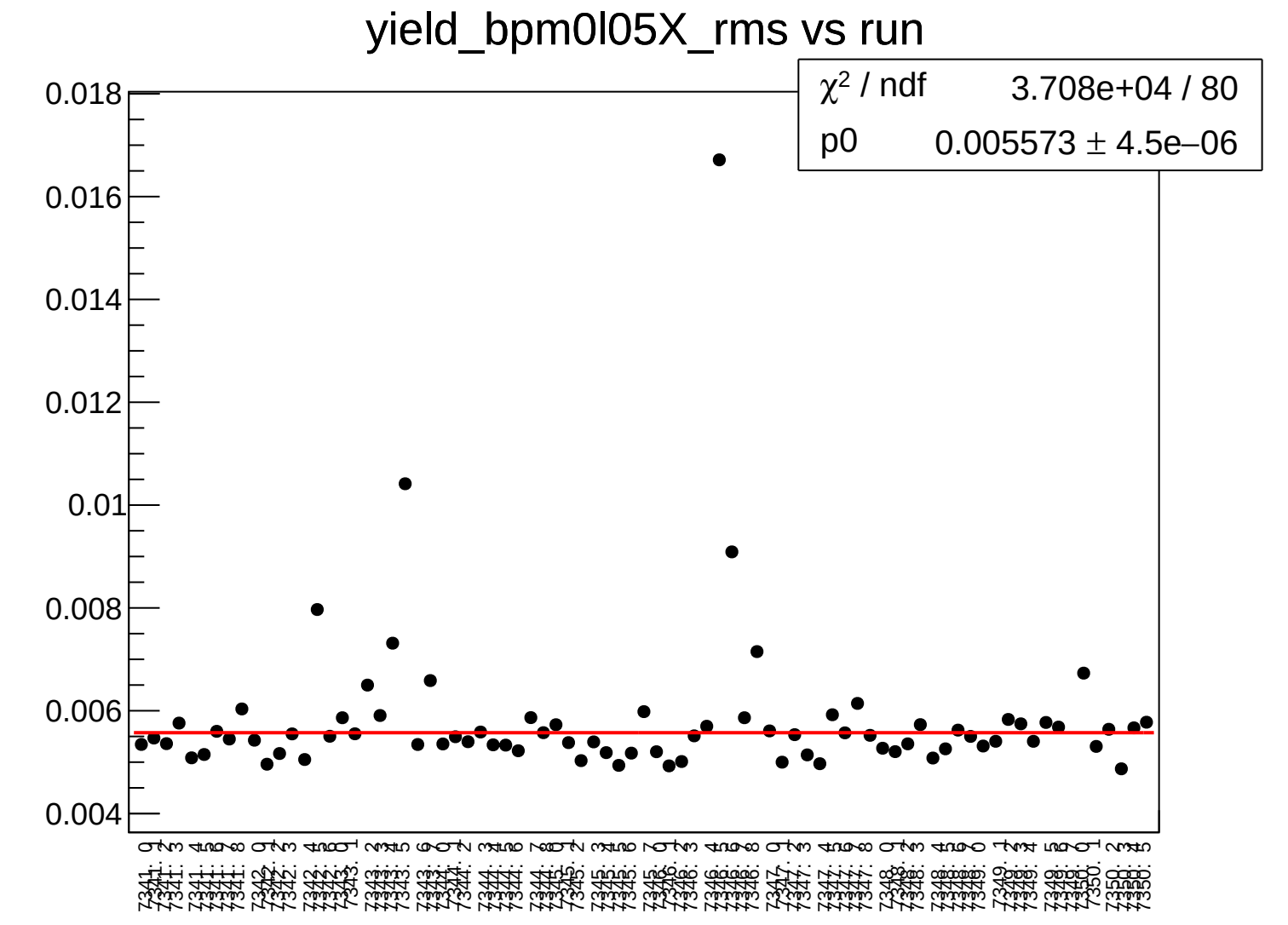

yield_bpm0l04Y_mean vs run
χ² / ndf 1.349e+06 / 80
p0 −0.1875 ± 6.916e−06
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
−0.2
−0.205
pull
Entries 81
Mean −84.08
Std Dev 134.4
300
200
100
0
−100
−200
−300

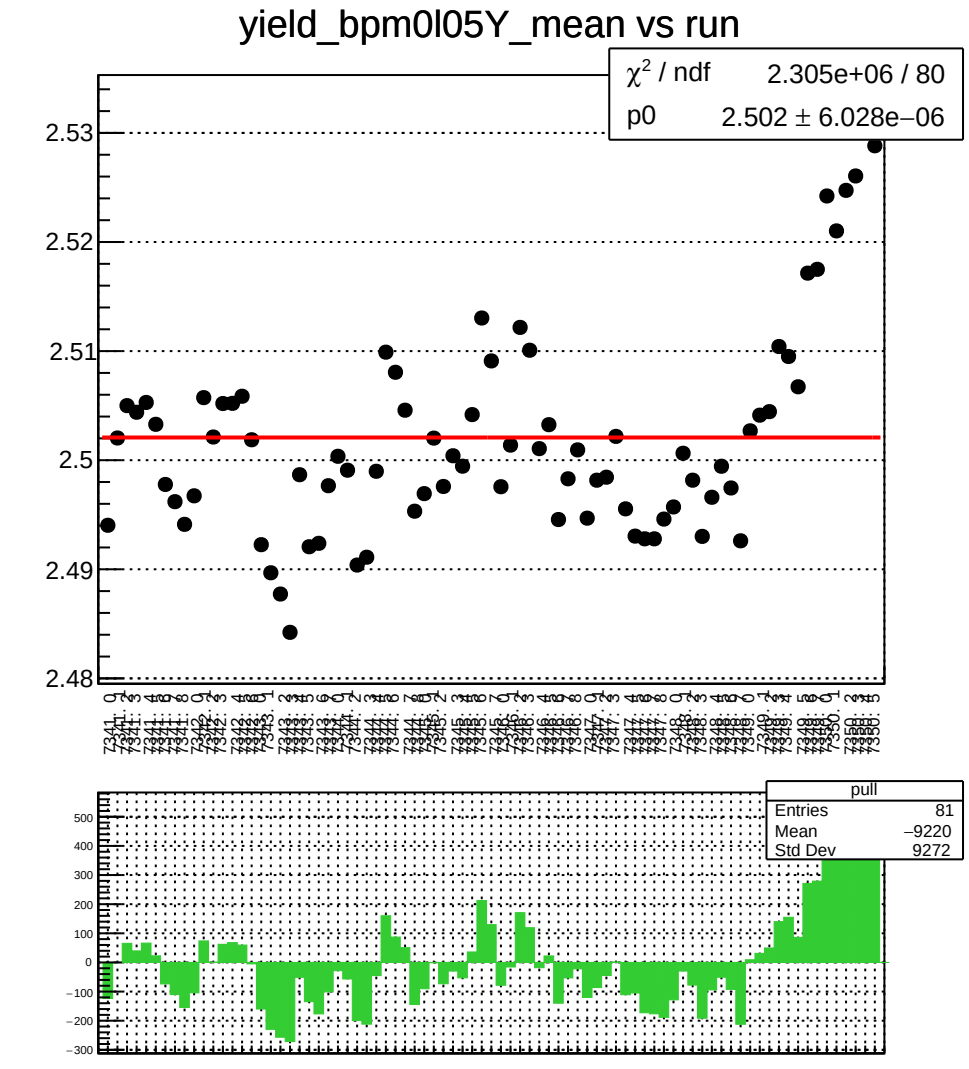

pull1D
Entries 81
Mean −2.36
Std Dev 3.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

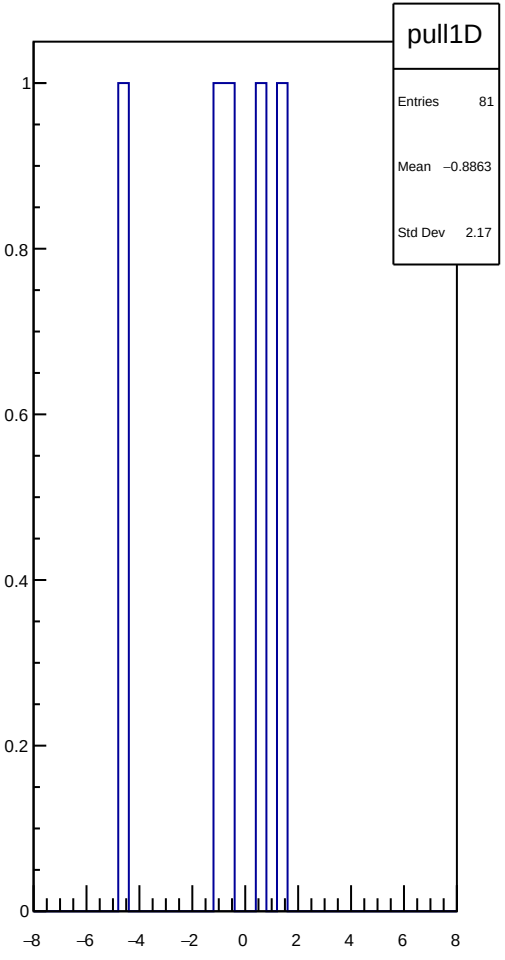

yield_bpm0l04Y_rms vs run
χ² / ndf 2.844e+04 / 80
p0 0.006074 ± 4.89e−06
0.01
0.009
0.008
0.007
0.006
0.005

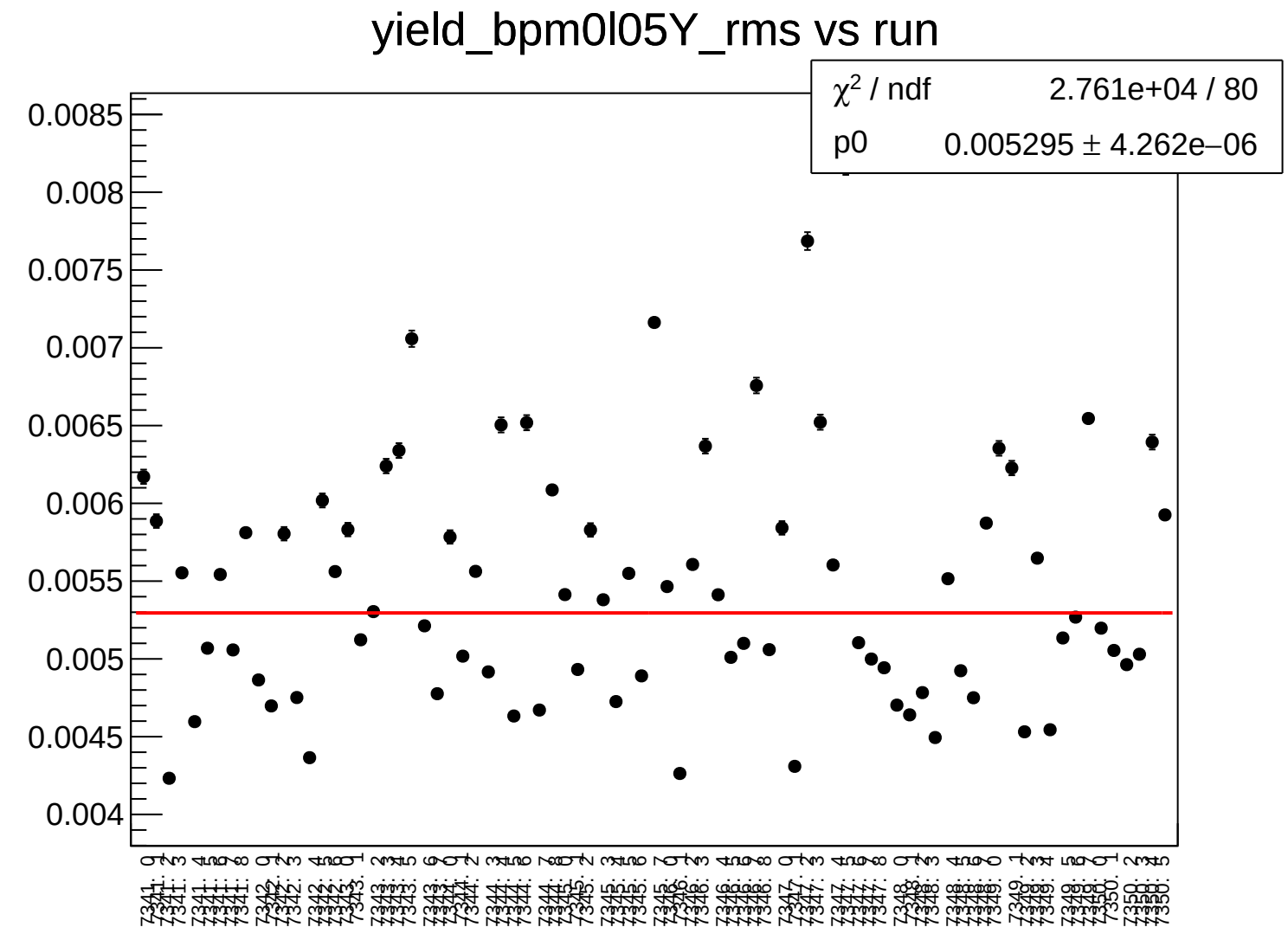

yield_bpm0l05X_mean vs run
χ² / ndf 2.881e+06 / 80
p0 0.1132 ± 6.363e−06
0.15
0.14
0.13
0.12
0.11
0.1
0.09
pull
Entries 81
Mean −38.12
Std Dev 108.9
600
400
200
0
−200
−400

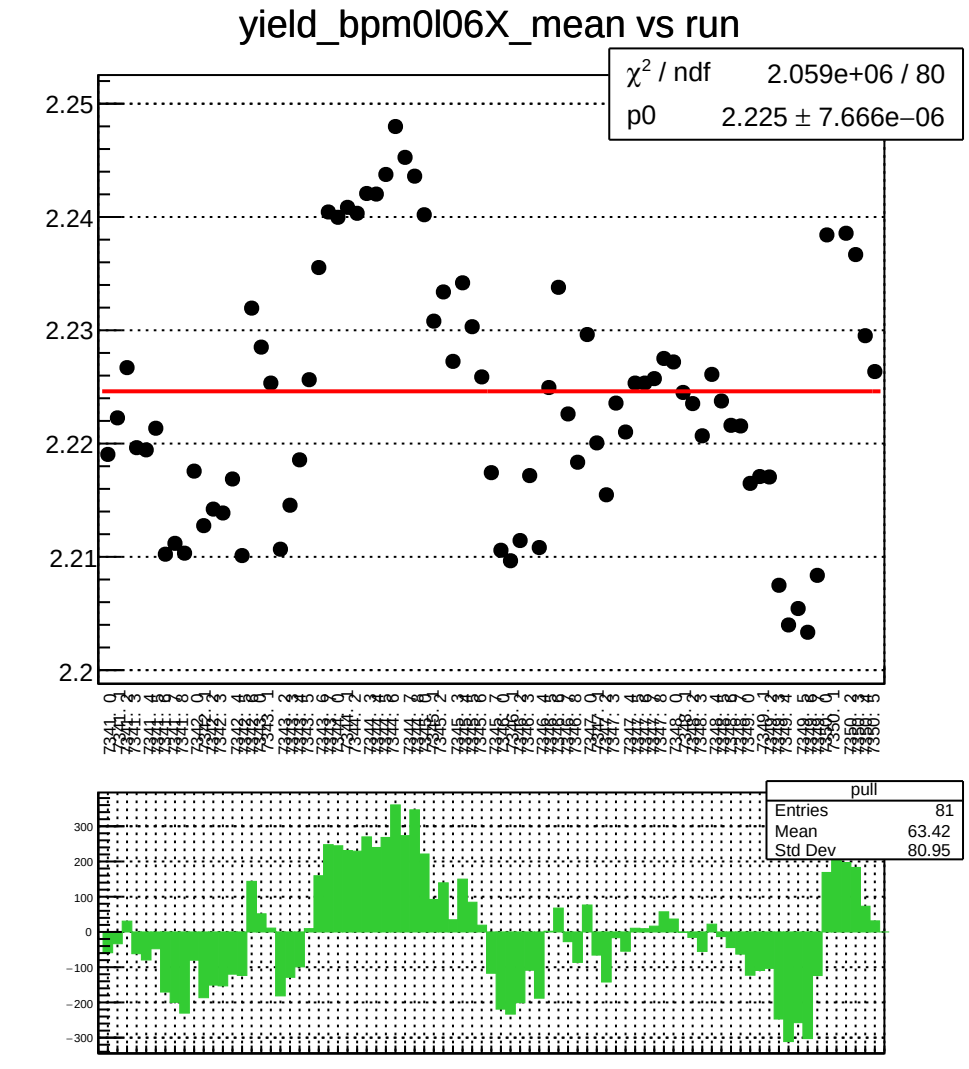

pull1D
Entries 81
Mean −0.5544
Std Dev 5.509
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

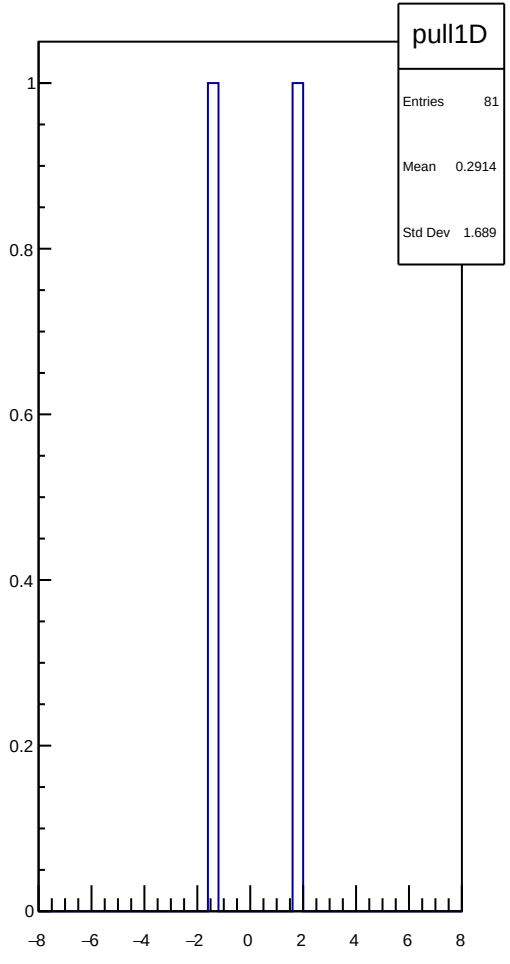

yield_bpm0l05X_rms vs run
χ² / ndf 3.708e+04 / 80
p0 0.005573 ± 4.5e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

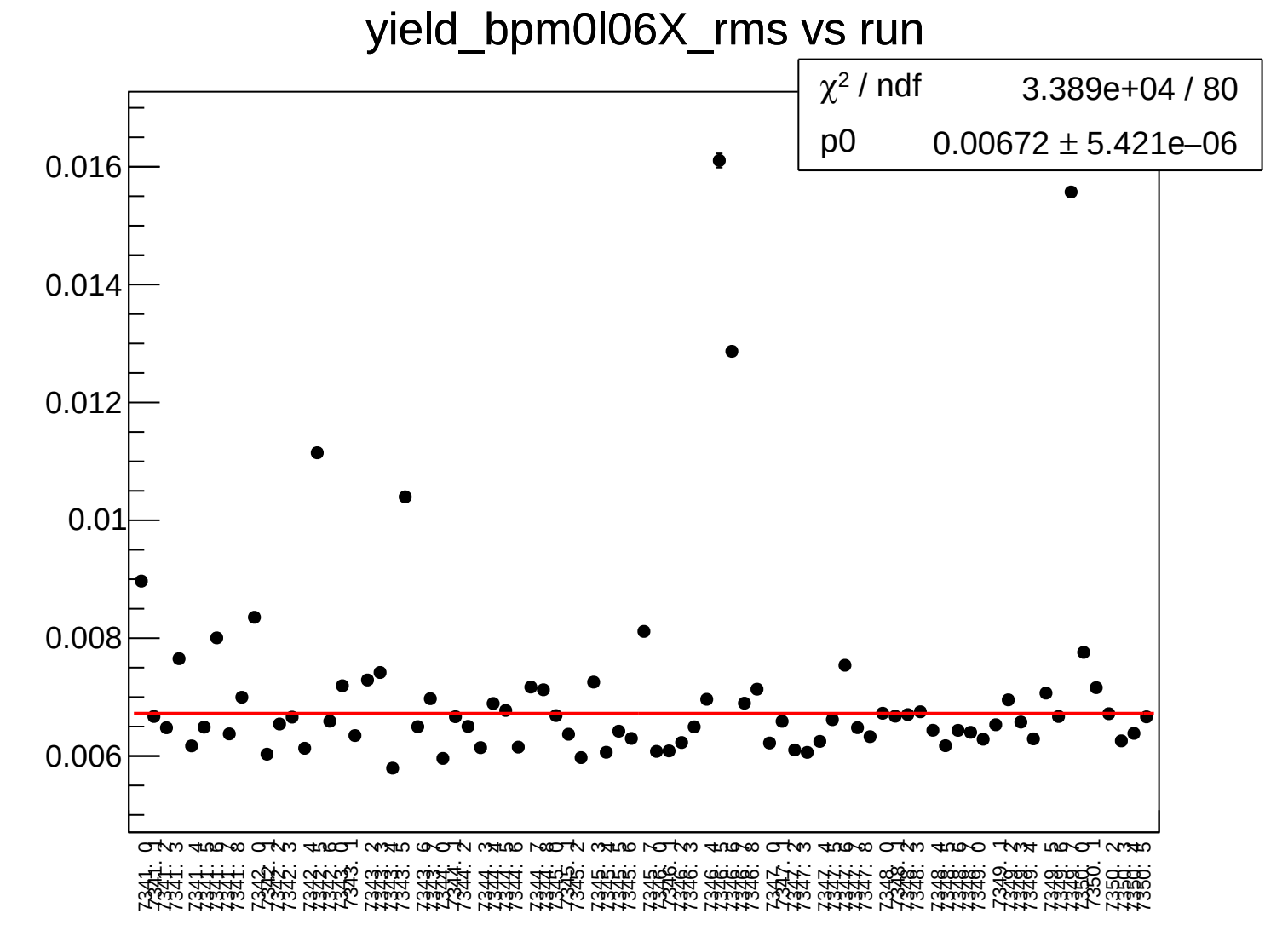

yield_bpm0l05Y_mean vs run
χ² / ndf 2.305e+06 / 80
p0 2.502 ± 6.028e−06
2.53
2.52
2.51
2.5
2.49
2.48
pull
Entries 81
Mean −9220
Std Dev 9272
500
400
300
200
100
0
−100
−200
−300

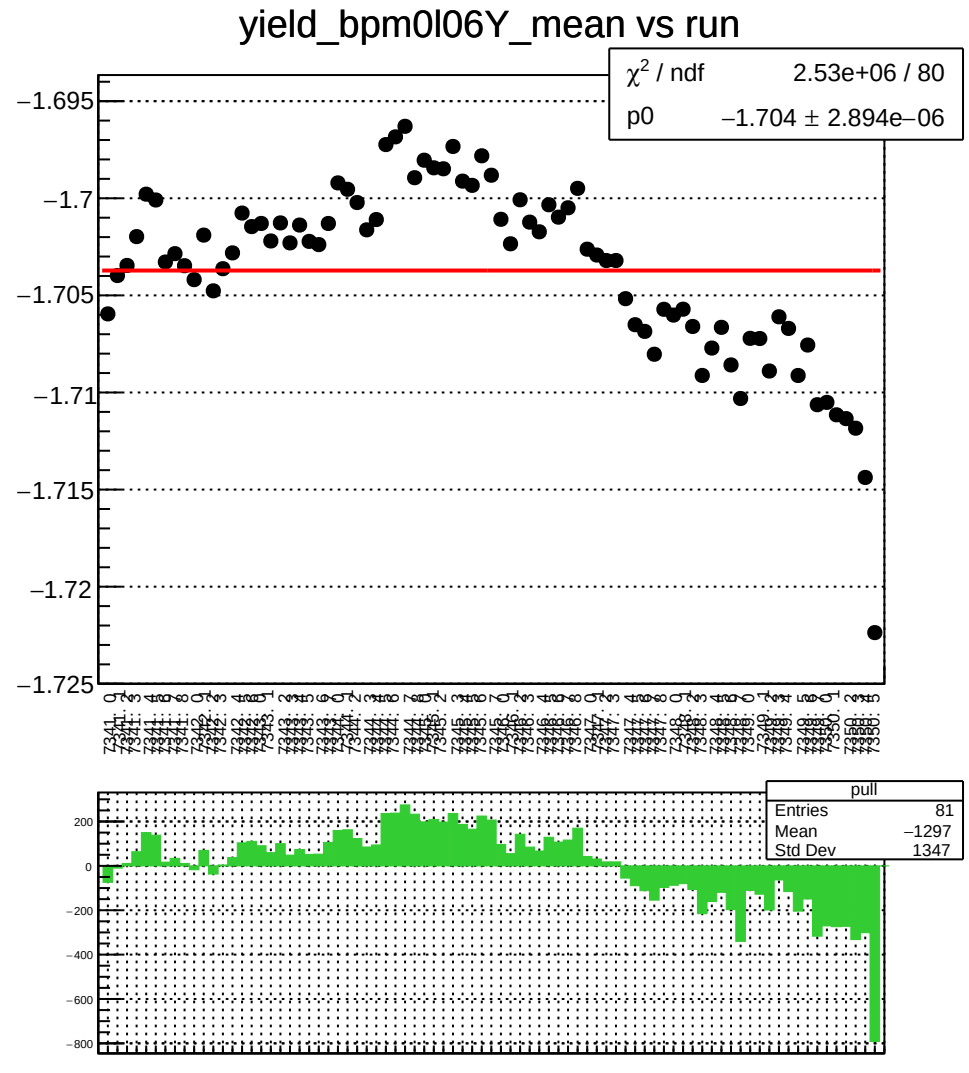

pull1D
Entries 81
Mean −0.8863
Std Dev 2.17
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

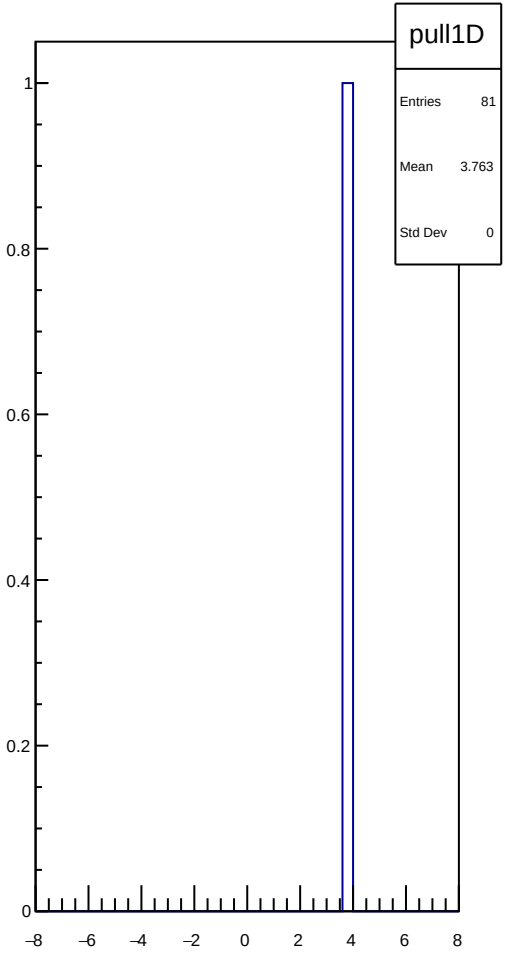

yield_bpm0l05Y_rms vs run
χ² / ndf 2.761e+04 / 80
p0 0.005295 ± 4.262e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

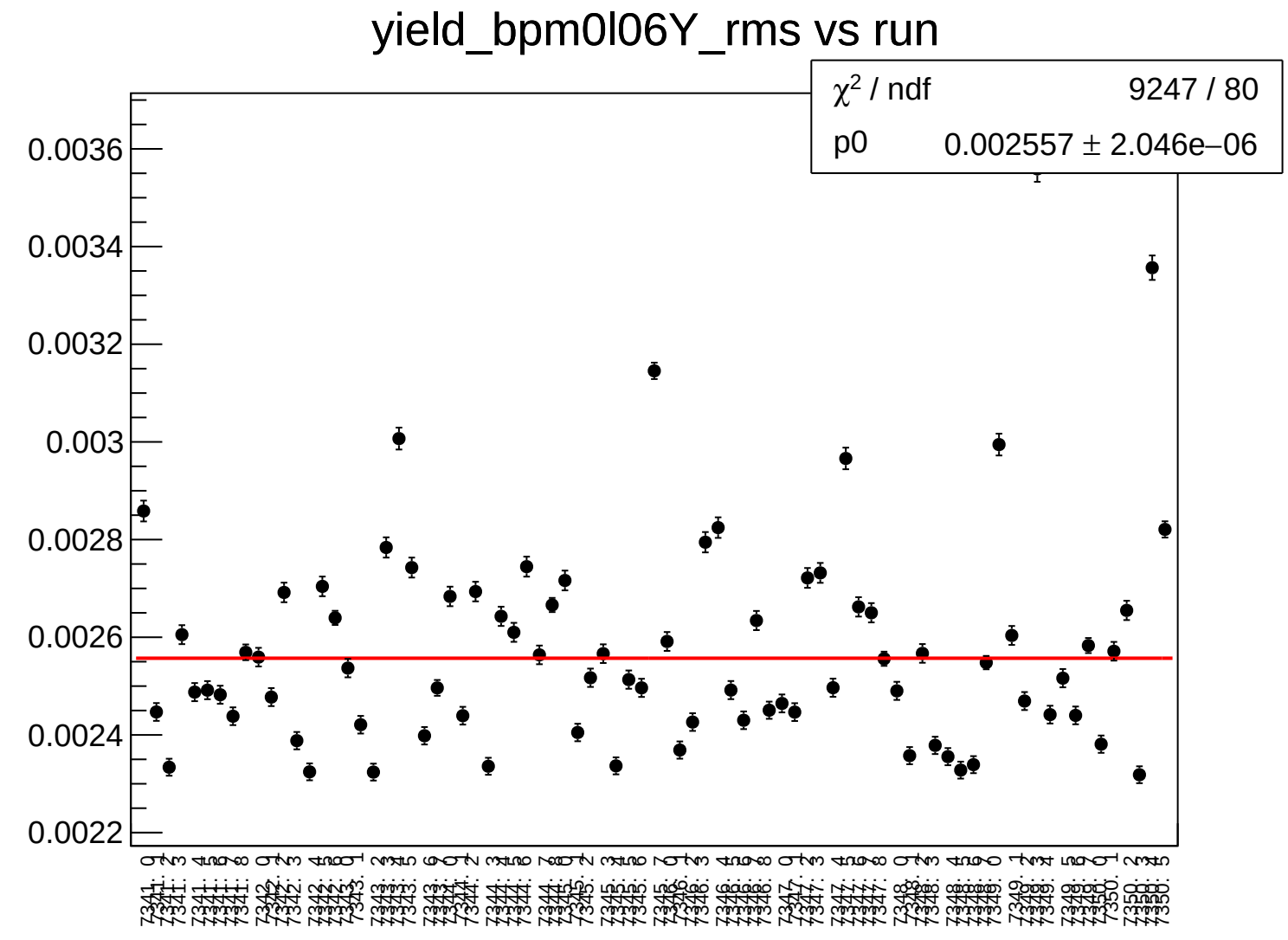

yield_bpm0l06X_mean vs run
χ² / ndf 2.059e+06 / 80
p0 2.225 ± 7.666e−06
2.25
2.24
2.23
2.22
2.21
2.2
pull
Entries 81
Mean 63.42
Std Dev 80.95
300
200
100
0
−100
−200
−300

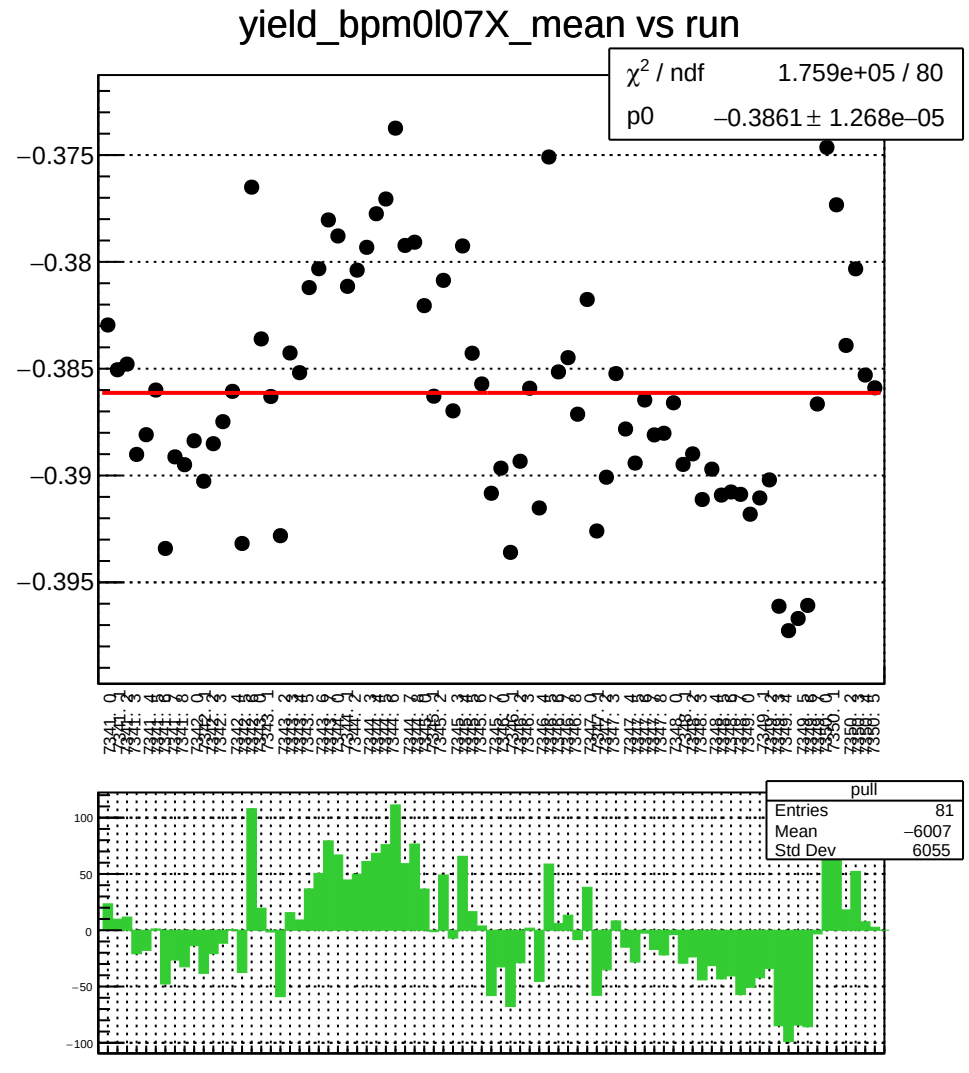

pull1D
Entries 81
Mean 0.2914
Std Dev 1.689
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

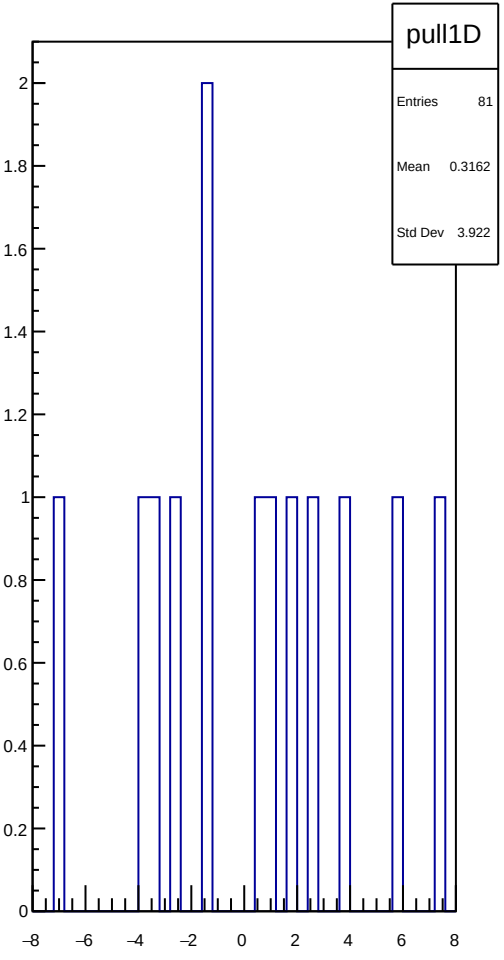

yield_bpm0l06X_rms vs run
χ^2 / ndf 3.389e+04 / 80
p0 0.00672 ± 5.421e−06
0.016
0.014
0.012
0.01
0.008
0.006

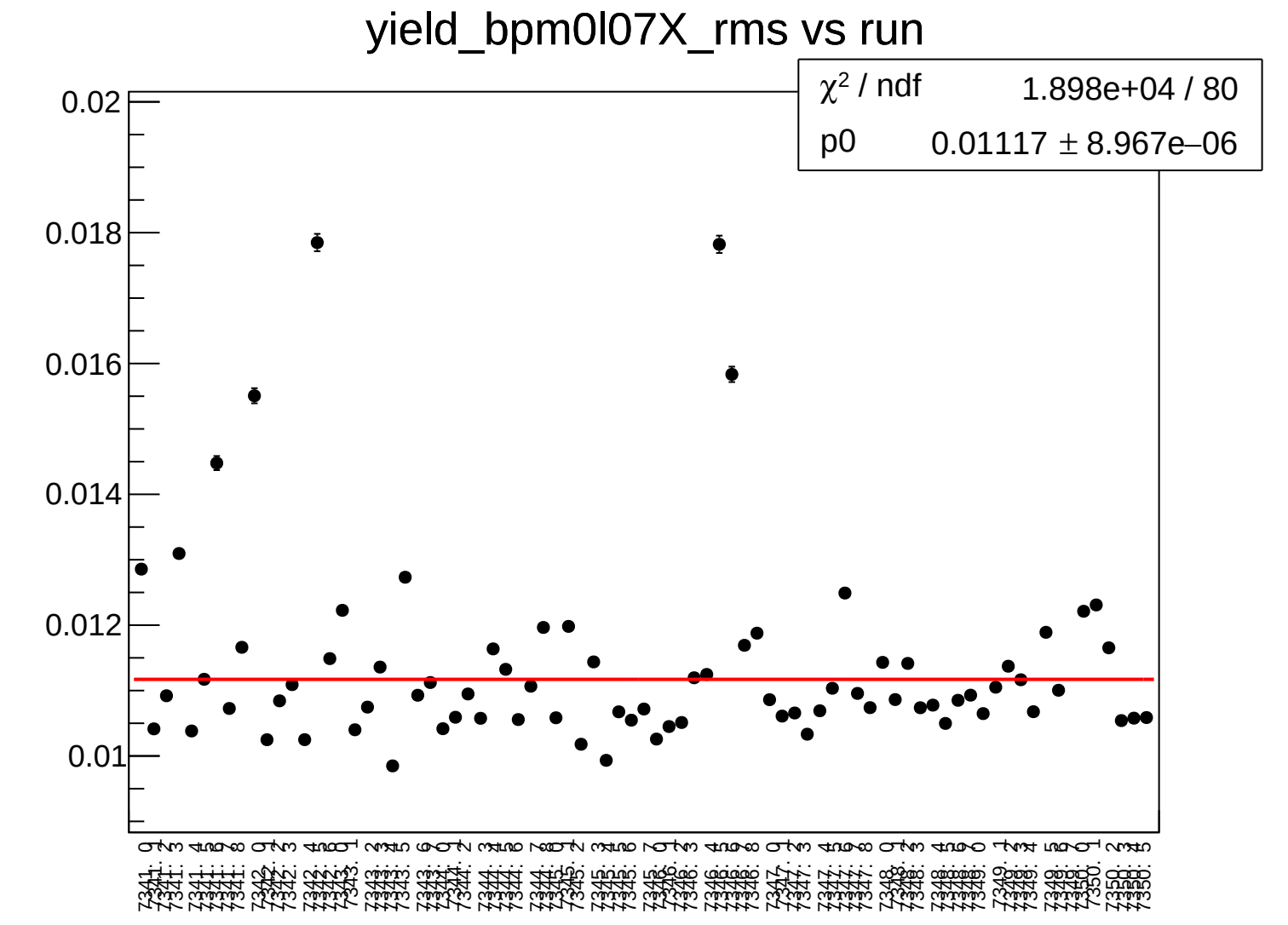

yield_bpm0l06Y_mean vs run
χ² / ndf 2.53e+06 / 80
p0 −1.704 ± 2.894e−06
−1.695
−1.7
−1.705
−1.71
−1.715
−1.72
−1.725
pull
Entries 81
Mean −1297
Std Dev 1347
200
0
−200
−400
−600
−800

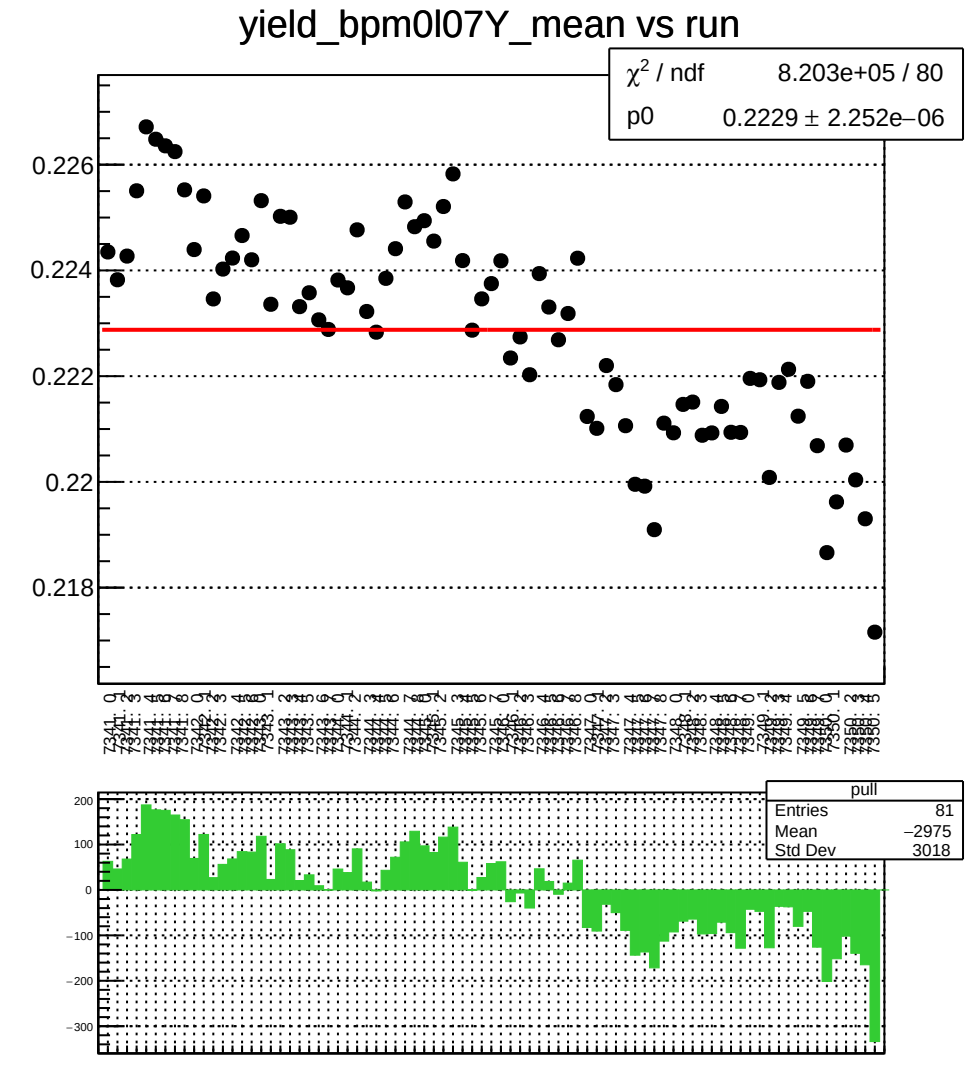

pull1D
Entries 81
Mean 3.763
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

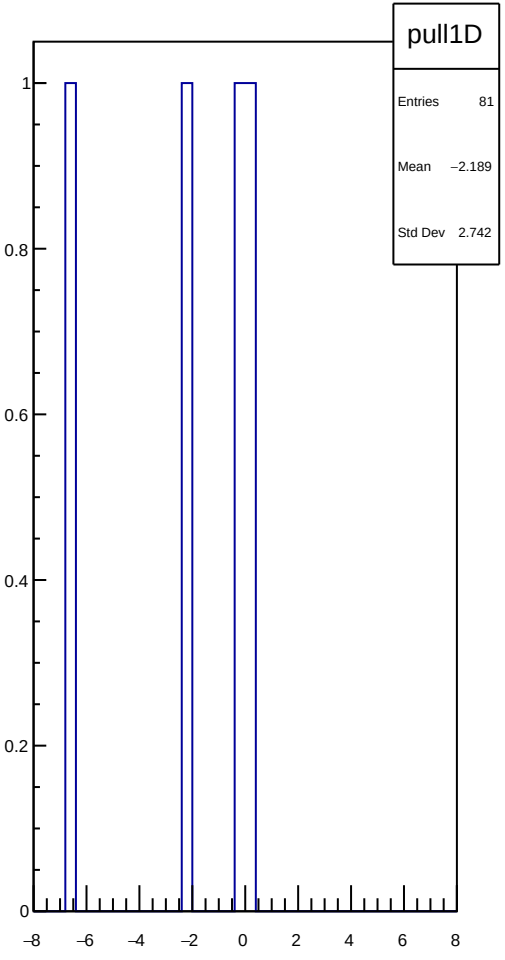

yield_bpm0l06Y_rms vs run
χ² / ndf 9247 / 80
p0 0.002557 ± 2.046e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

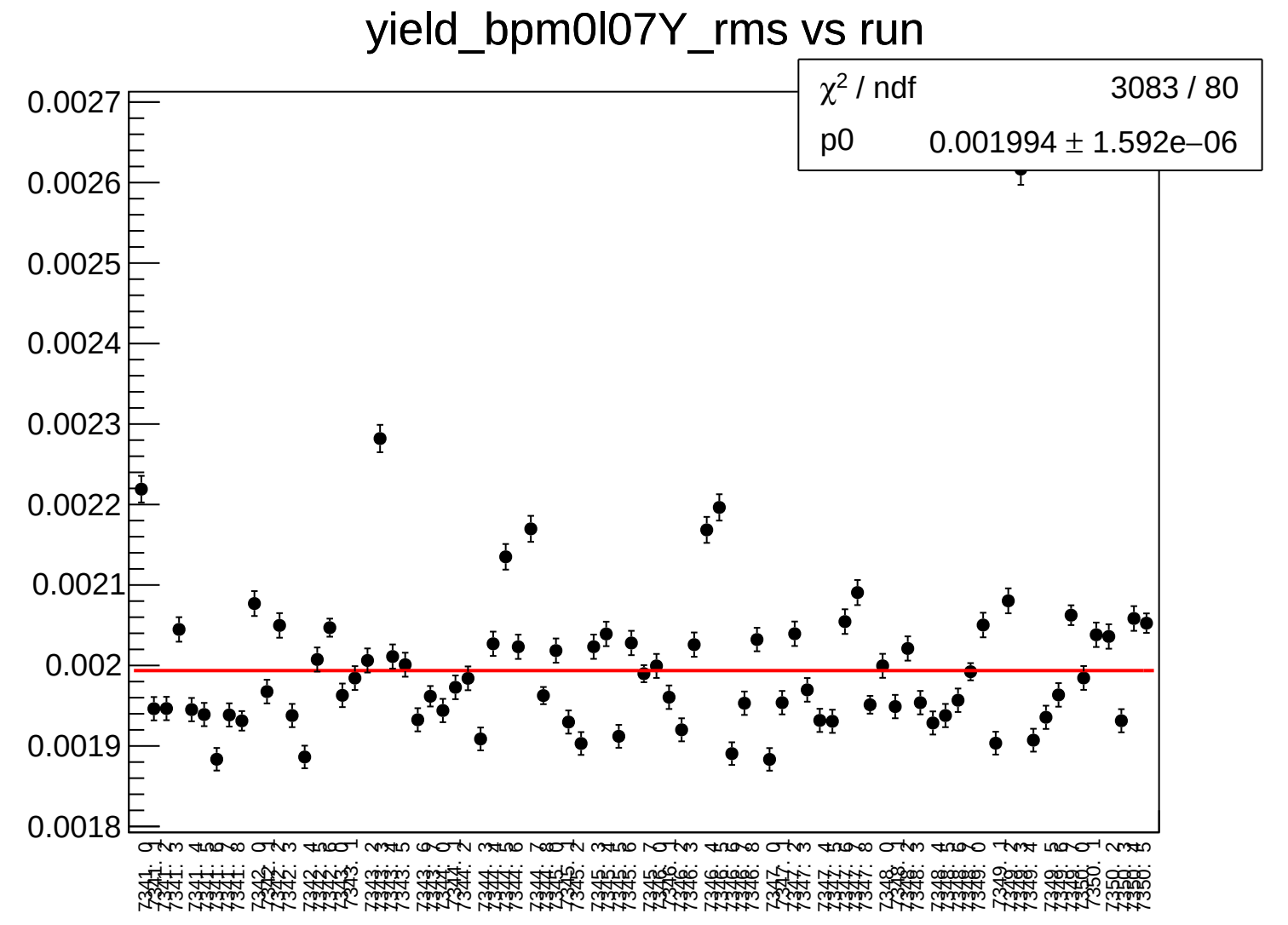

yield_bpm0l07X_mean vs run
χ² / ndf 1.759e+05 / 80
p0 −0.3861 ± 1.268e−05
−0.375
−0.38
−0.385
−0.39
−0.395
pull
Entries 81
Mean −6007
Std Dev 6055
100
50
0
−50
−100

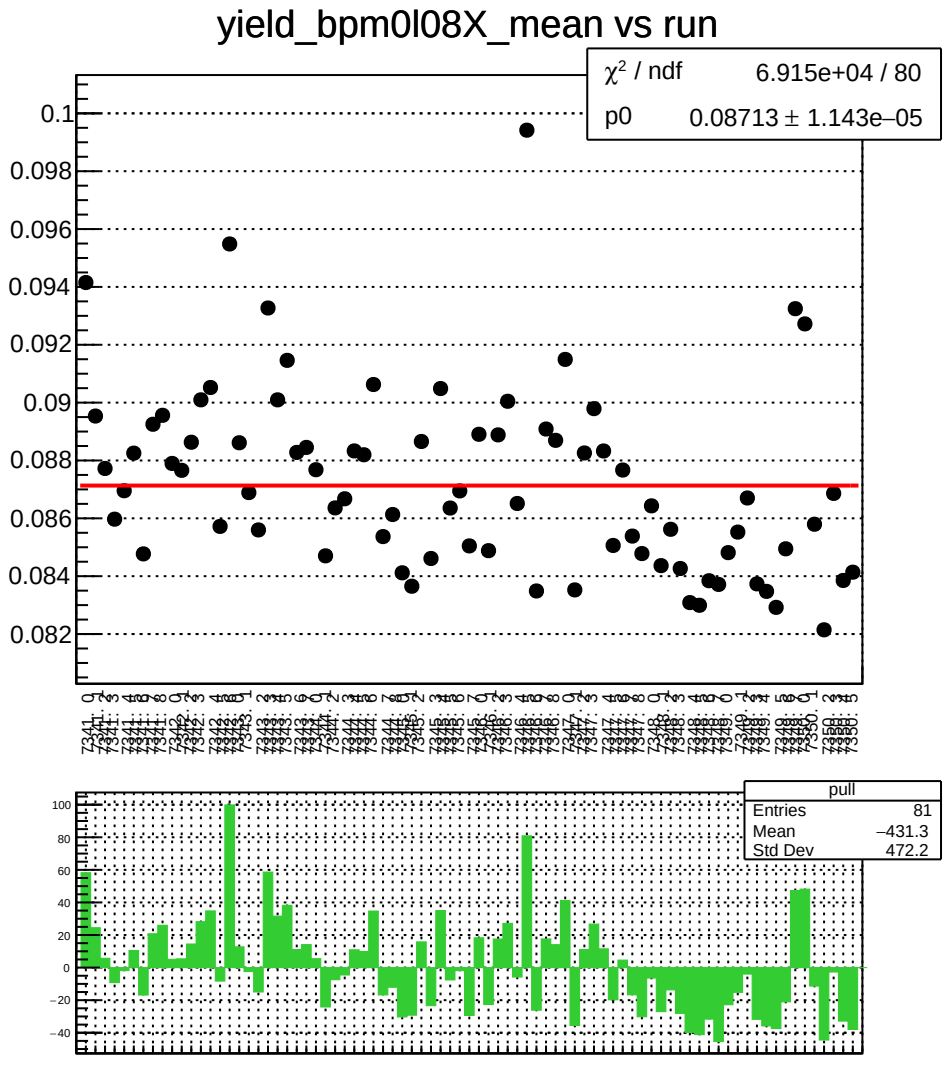

pull1D
Entries 81
Mean 0.3162
Std Dev 3.922
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

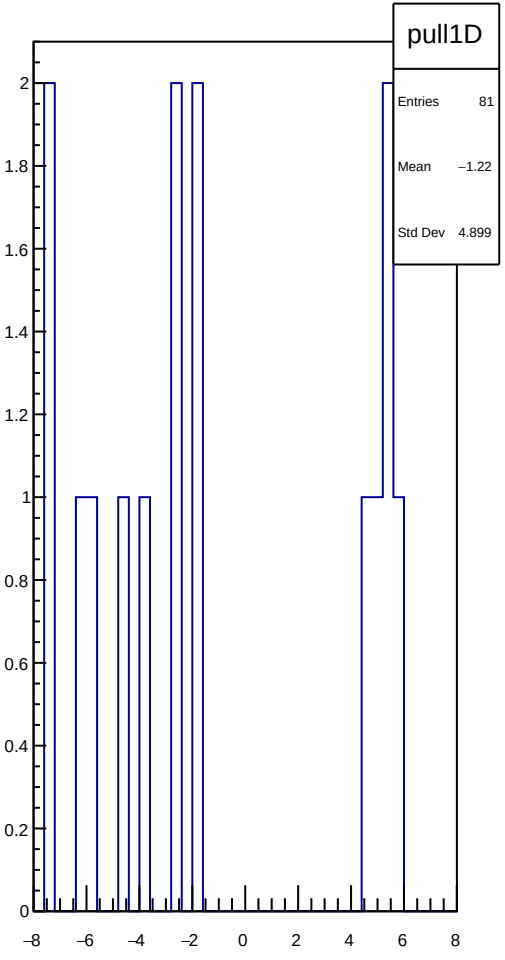

yield_bpm0l07X_rms vs run
χ^2 / ndf 1.898e+04 / 80
p0 0.01117 ± 8.967e–06
0.02
0.018
0.016
0.014
0.012
0.01

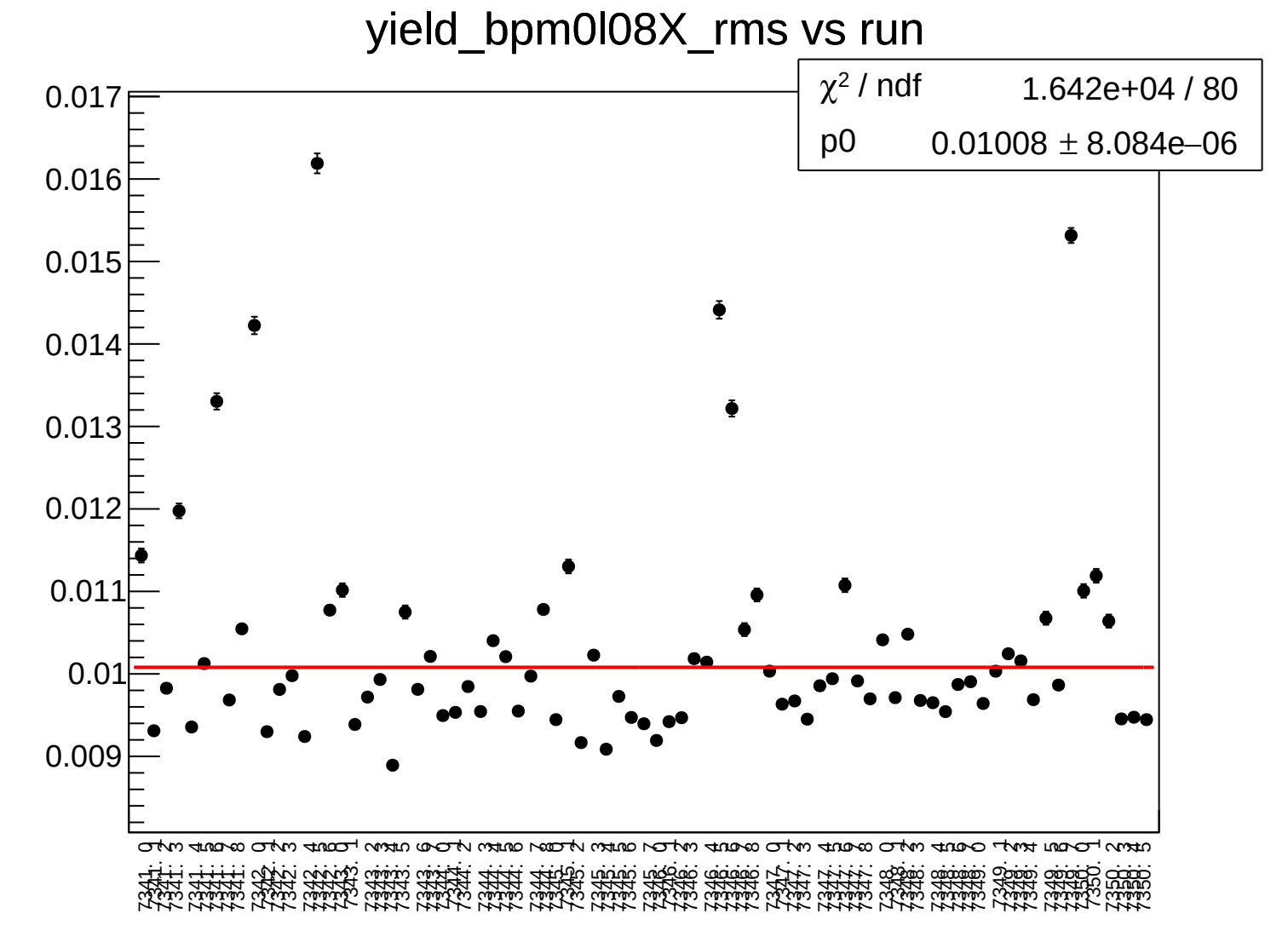

yield_bpm0l07Y_mean vs run
χ² / ndf 8.203e+05 / 80
p0 0.2229 ± 2.252e−06
0.226
0.224
0.222
0.22
0.218
pull
Entries 81
Mean −2975
Std Dev 3018
200
100
0
−100
−200
−300

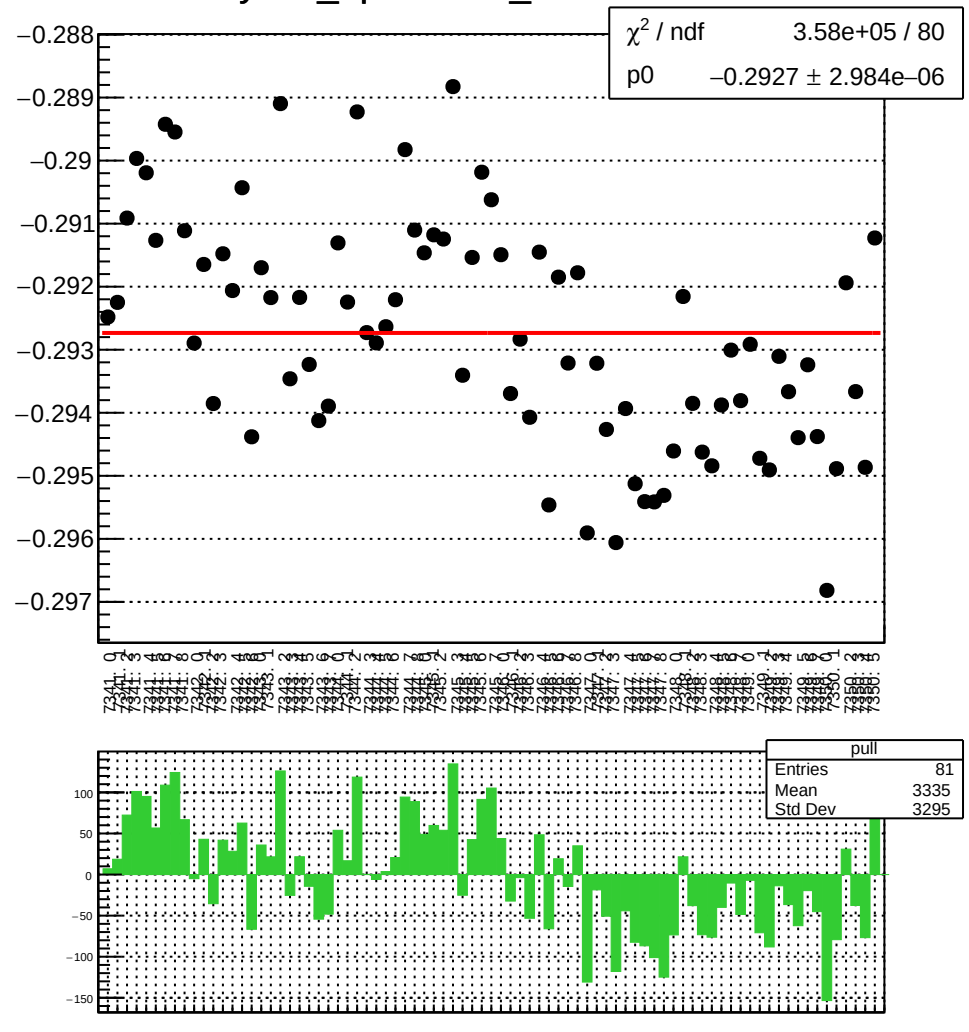

pull1D
Entries 81
Mean −2.189
Std Dev 2.742
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

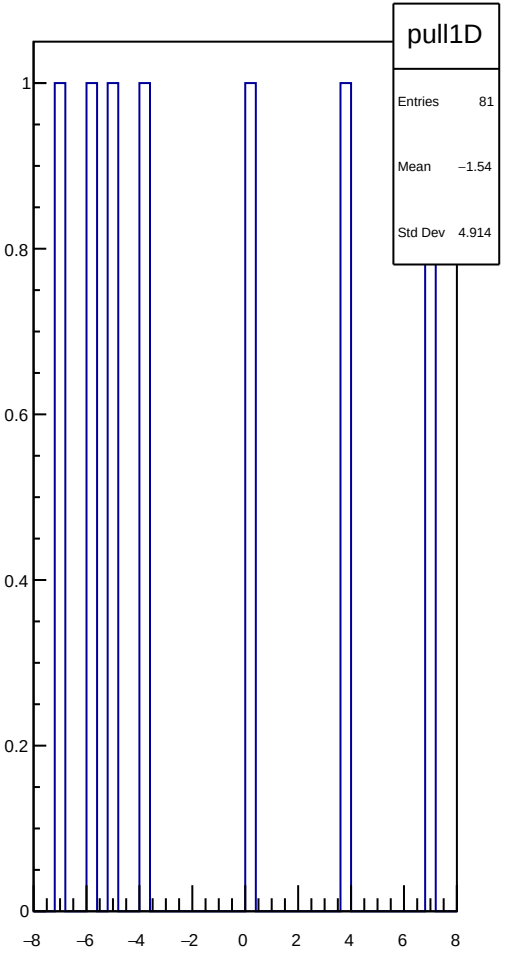

yield_bpm0l07Y_rms vs run
χ² / ndf 3083 / 80
p0 0.001994 ± 1.592e−06
0.0027
0.0026
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

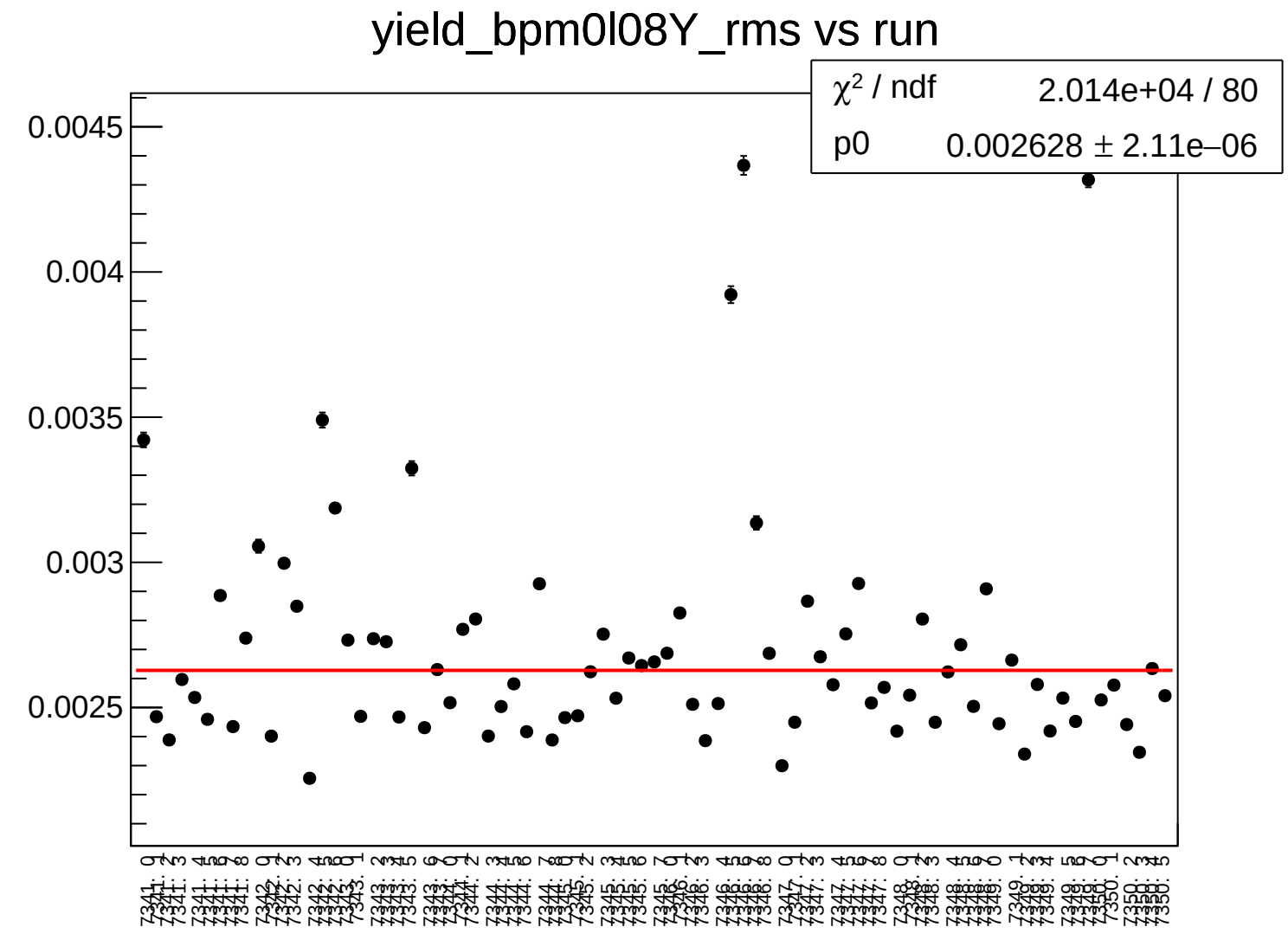

yield_bpm0l08X_mean vs run
χ² / ndf 6.915e+04 / 80
p0 0.08713 ± 1.143e−05
pull
Entries 81
Mean −431.3
Std Dev 472.2

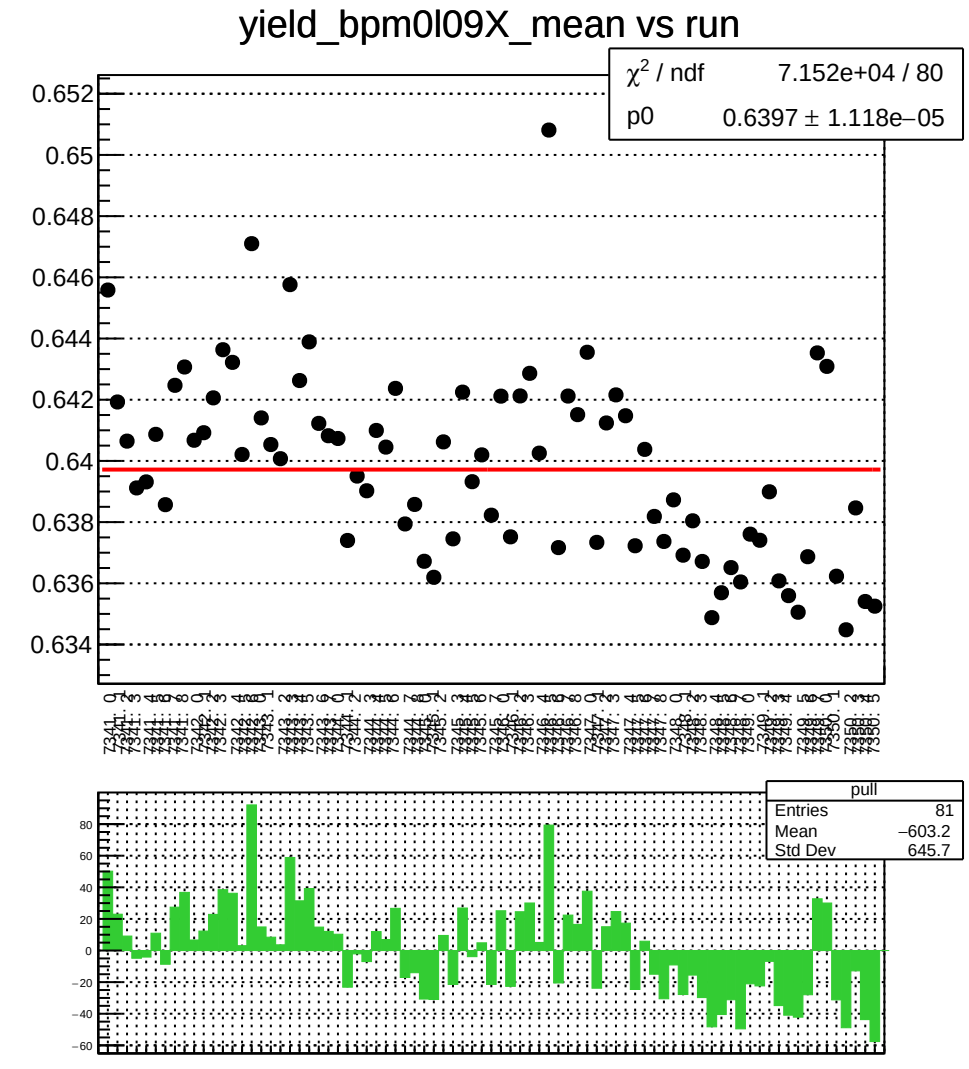

pull1D
Entries 81
Mean −1.22
Std Dev 4.899

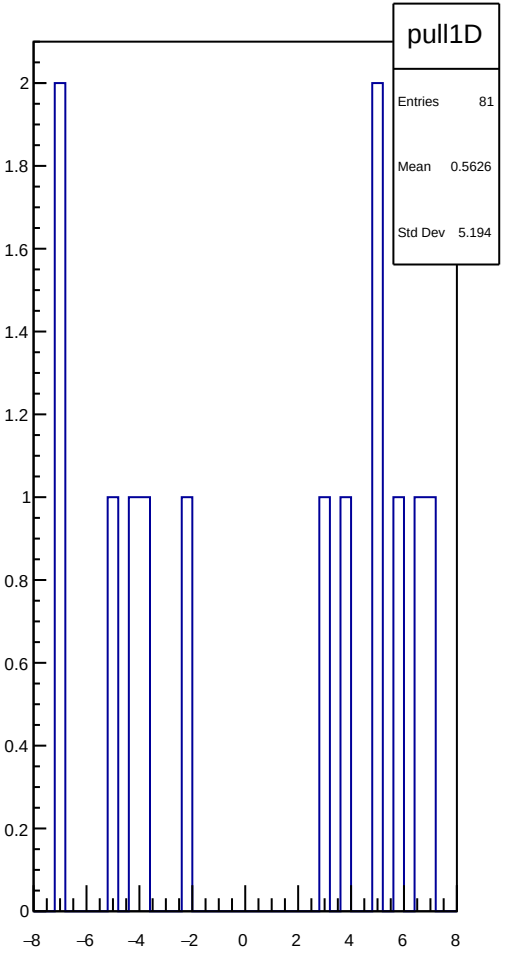

yield_bpm0l08X_rms vs run
χ² / ndf 1.642e+04 / 80
p0 0.01008 ± 8.084e–06
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

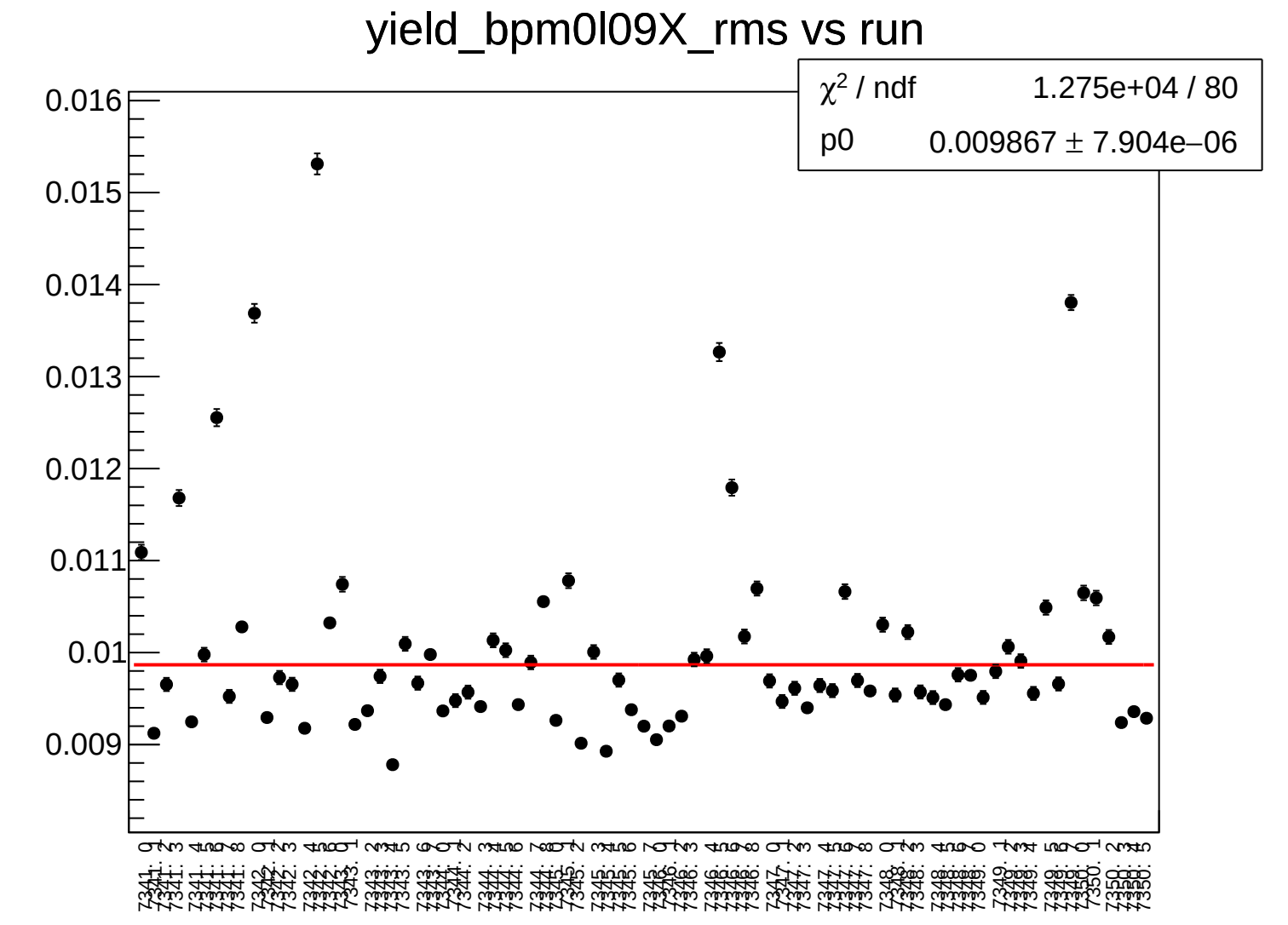

yield_bpm0l08Y_mean vs run
χ² / ndf 3.58e+05 / 80
p0 −0.2927 ± 2.984e−06
−0.288
−0.289
−0.29
−0.291
−0.292
−0.293
−0.294
−0.295
−0.296
−0.297
pull
Entries 81
Mean 3335
Std Dev 3295
100
50
0
−50
−100
−150

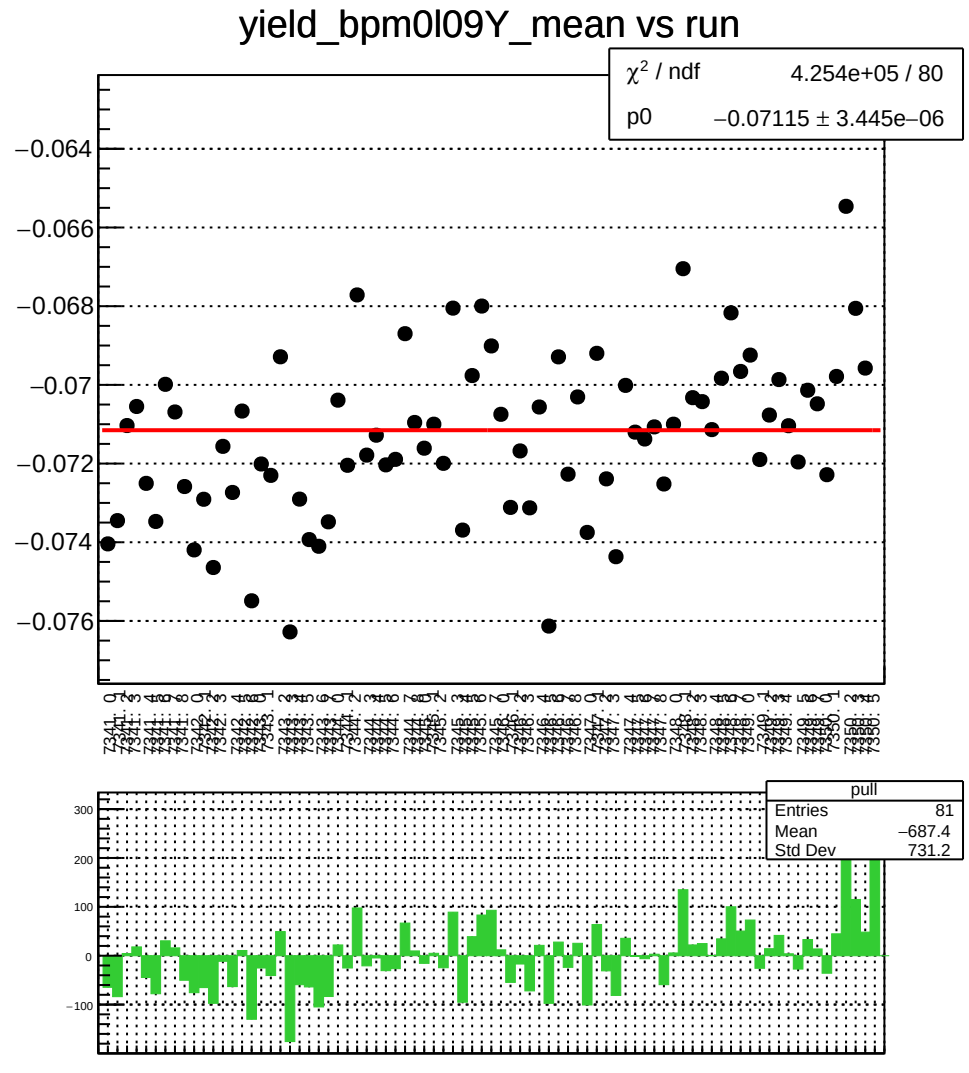

pull1D
Entries 81
Mean −1.54
Std Dev 4.914
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

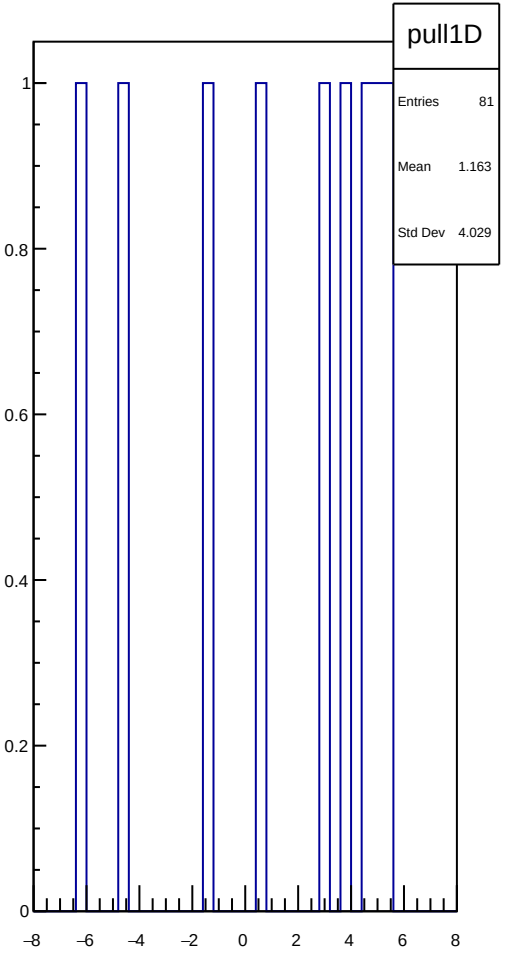

yield_bpm0l08Y_rms vs run
χ² / ndf 2.014e+04 / 80
p0 0.002628 ± 2.11e−06
0.0045
0.004
0.0035
0.003
0.0025

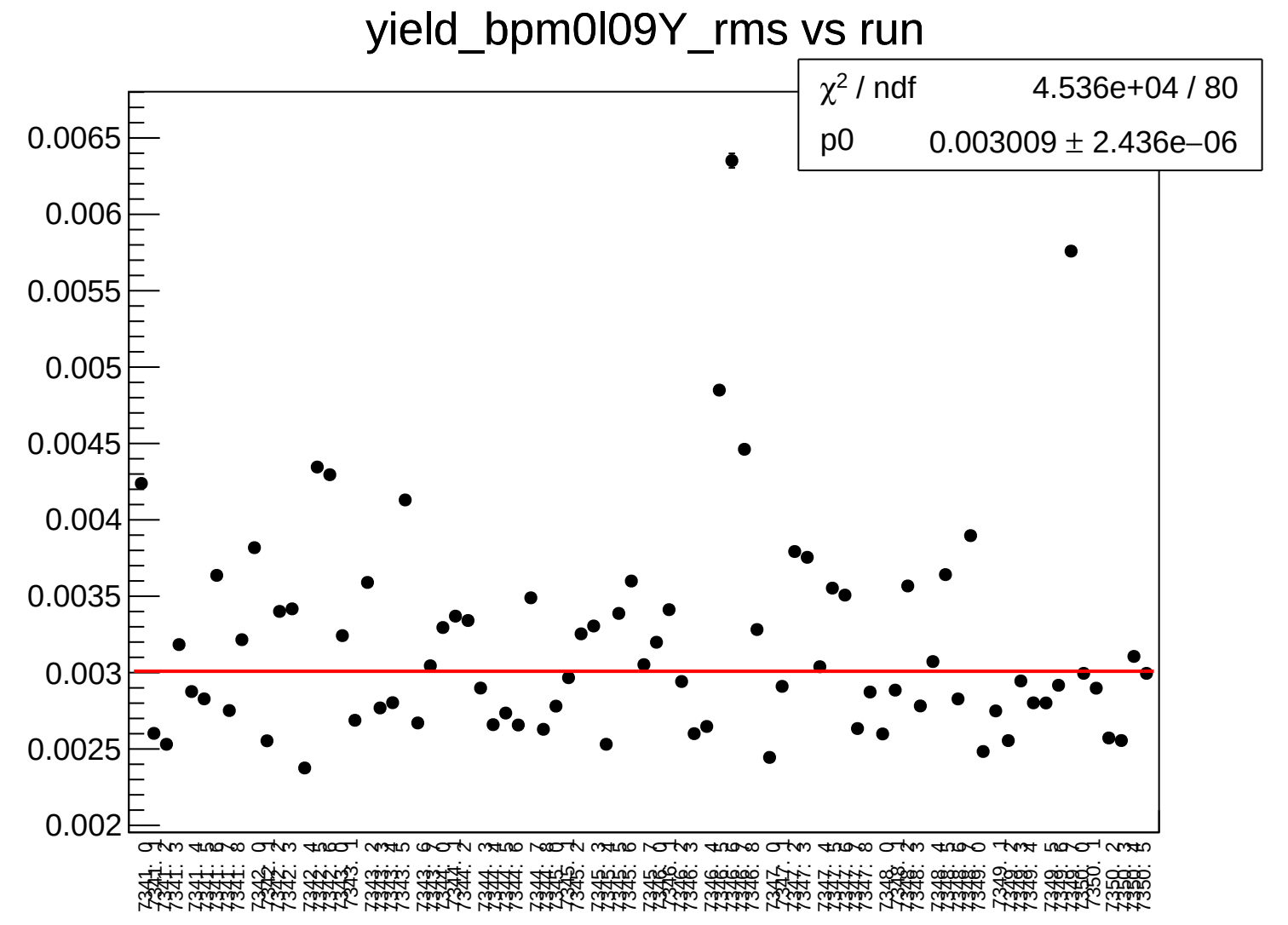

yield_bpm0l09X_mean vs run
χ² / ndf 7.152e+04 / 80
p0 0.6397 ± 1.118e−05
0.652
0.65
0.648
0.646
0.644
0.642
0.64
0.638
0.636
0.634
pull
Entries 81
Mean −603.2
Std Dev 645.7
80
60
40
20
0
−20
−40
−60

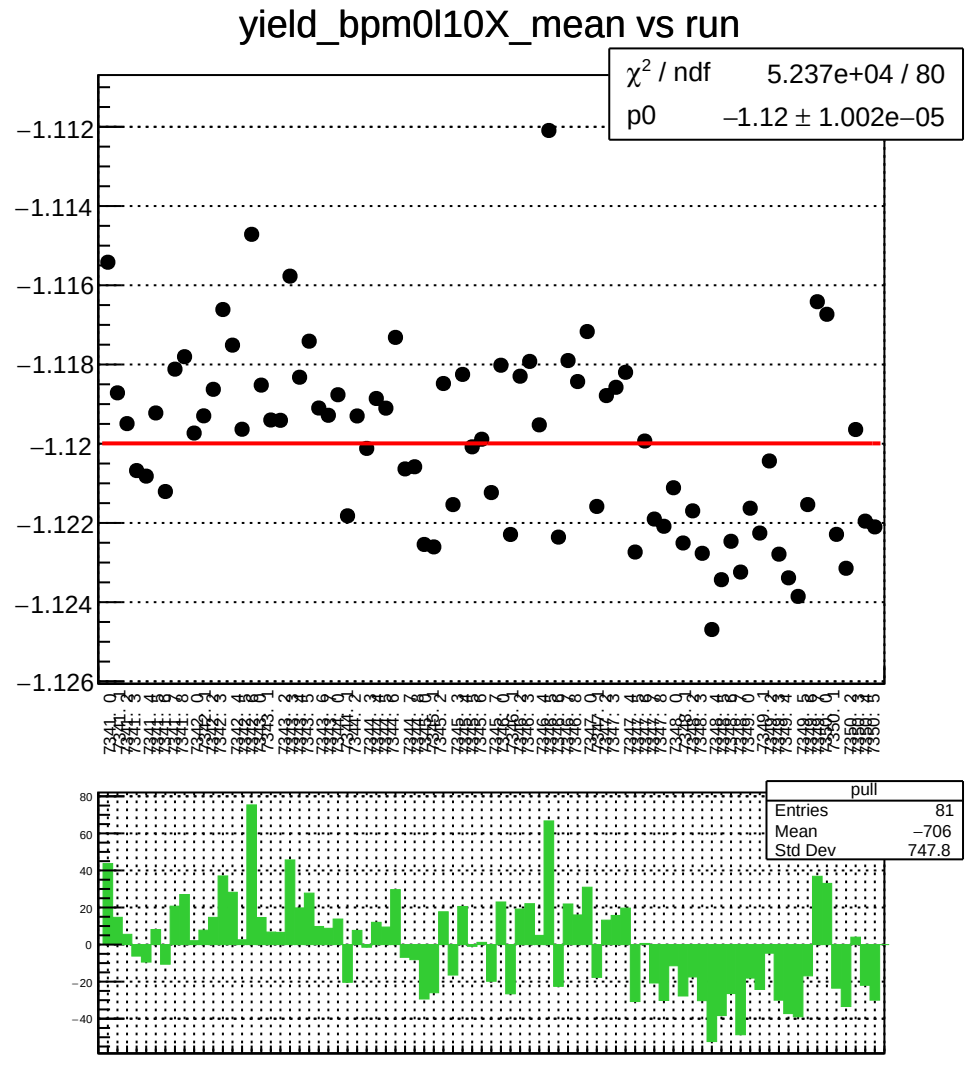

pull1D
Entries 81
Mean 0.5626
Std Dev 5.194
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

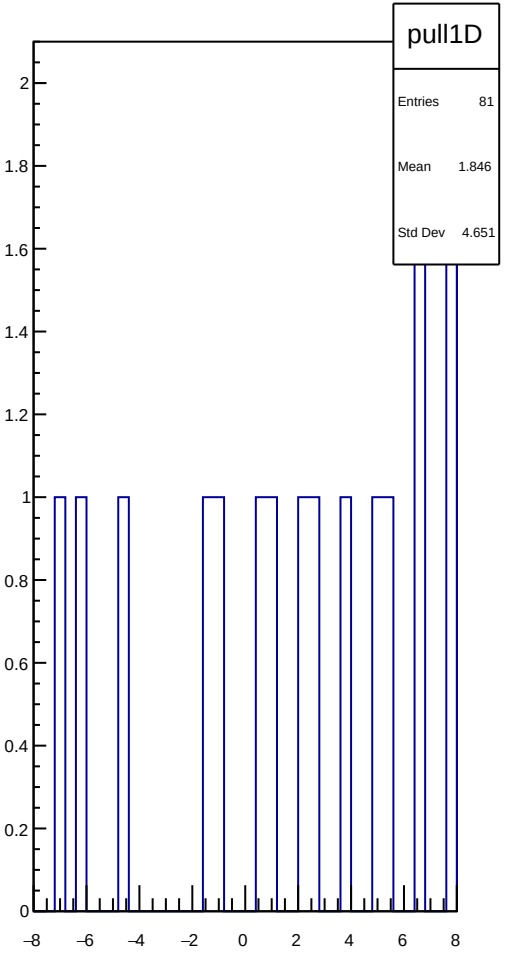

yield_bpm0l09X_rms vs run
χ² / ndf 1.275e+04 / 80
p0 0.009867 ± 7.904e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

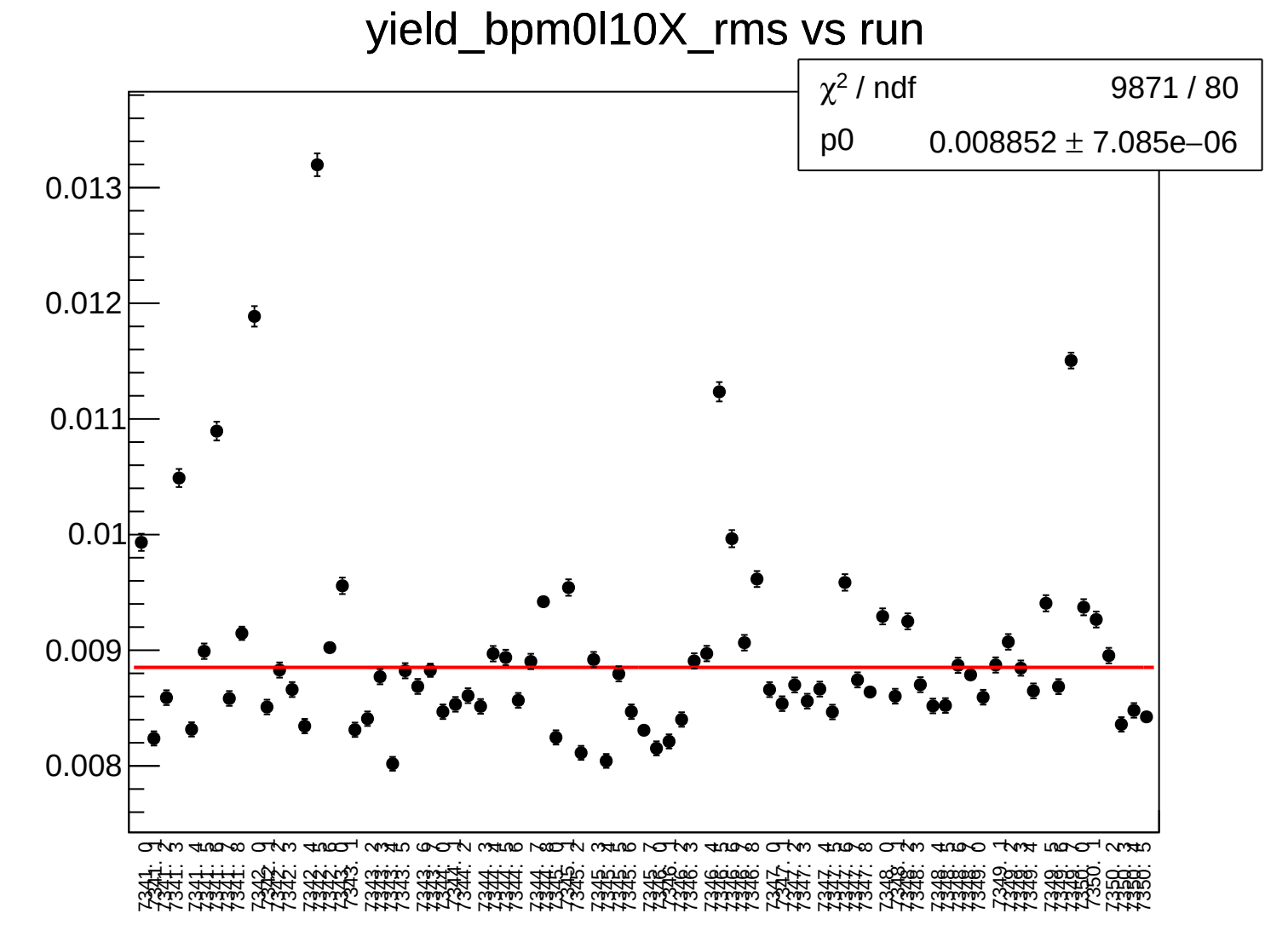

yield_bpm0l09Y_mean vs run
χ² / ndf 4.254e+05 / 80
p0 −0.07115 ± 3.445e−06
−0.064
−0.066
−0.068
−0.07
−0.072
−0.074
−0.076
pull
Entries 81
Mean −687.4
Std Dev 731.2
300
200
100
0
−100

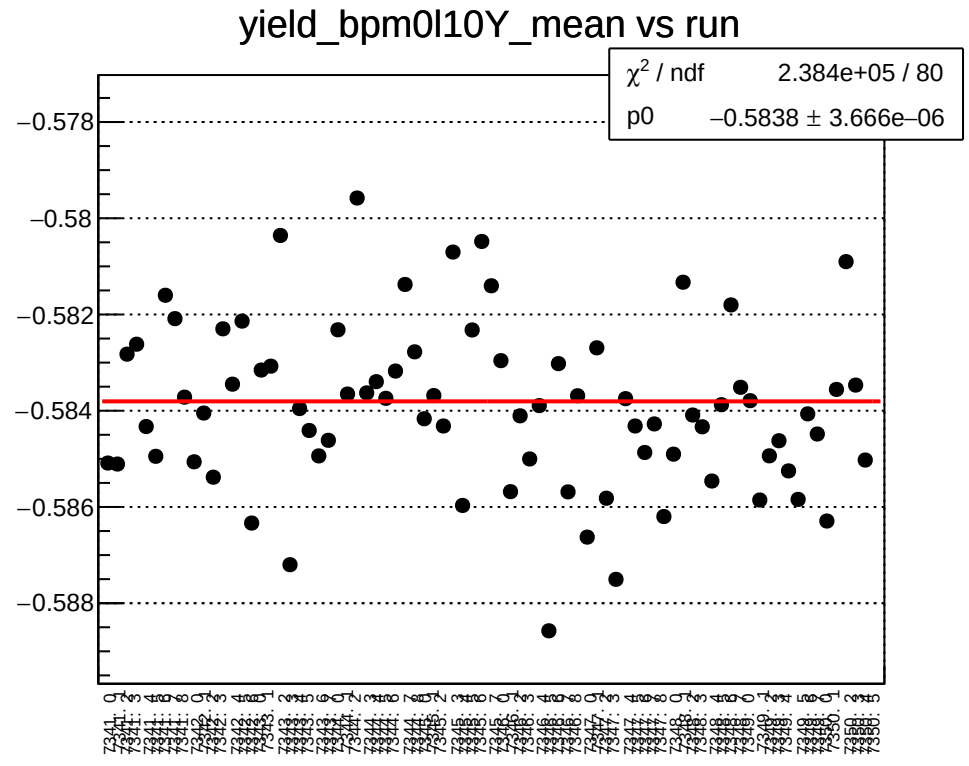

pull1D
Entries 81
Mean 1.163
Std Dev 4.029
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

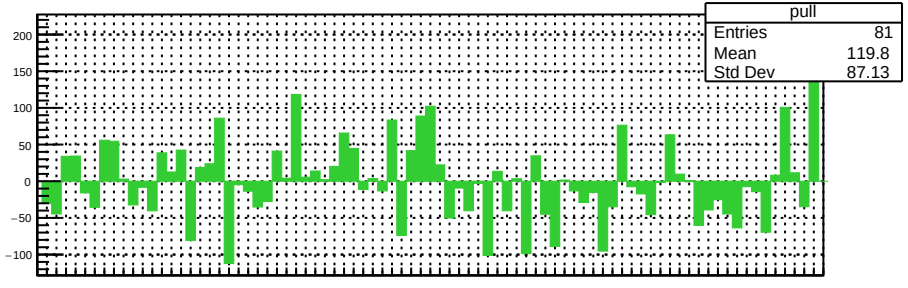

yield_bpm0l09Y_rms vs run
χ² / ndf 4.536e+04 / 80
p0 0.003009 ± 2.436e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

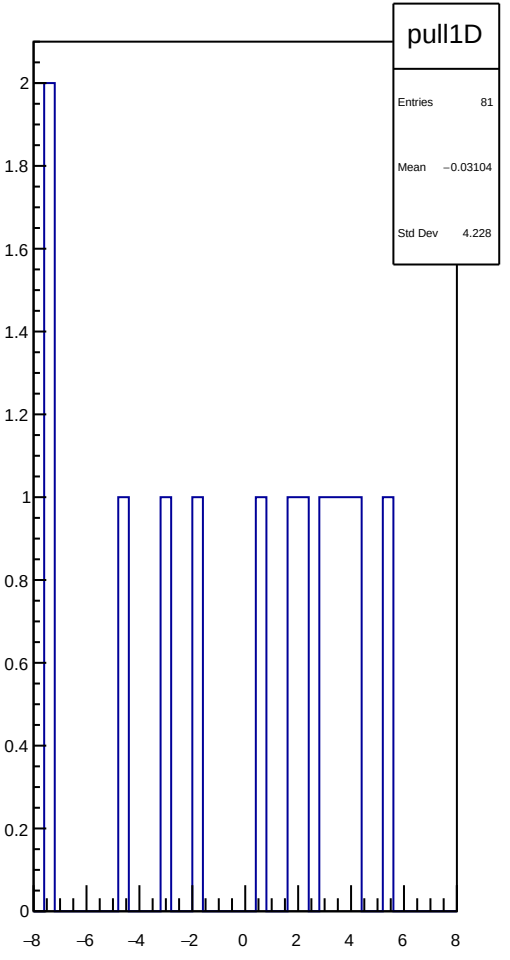

yield_bpm0l10X_mean vs run
χ² / ndf 5.237e+04 / 80
p0 −1.12 ± 1.002e−05
−1.112
−1.114
−1.116
−1.118
−1.12
−1.122
−1.124
−1.126
pull
Entries 81
Mean −706
Std Dev 747.8
80
60
40
20
0
−20
−40

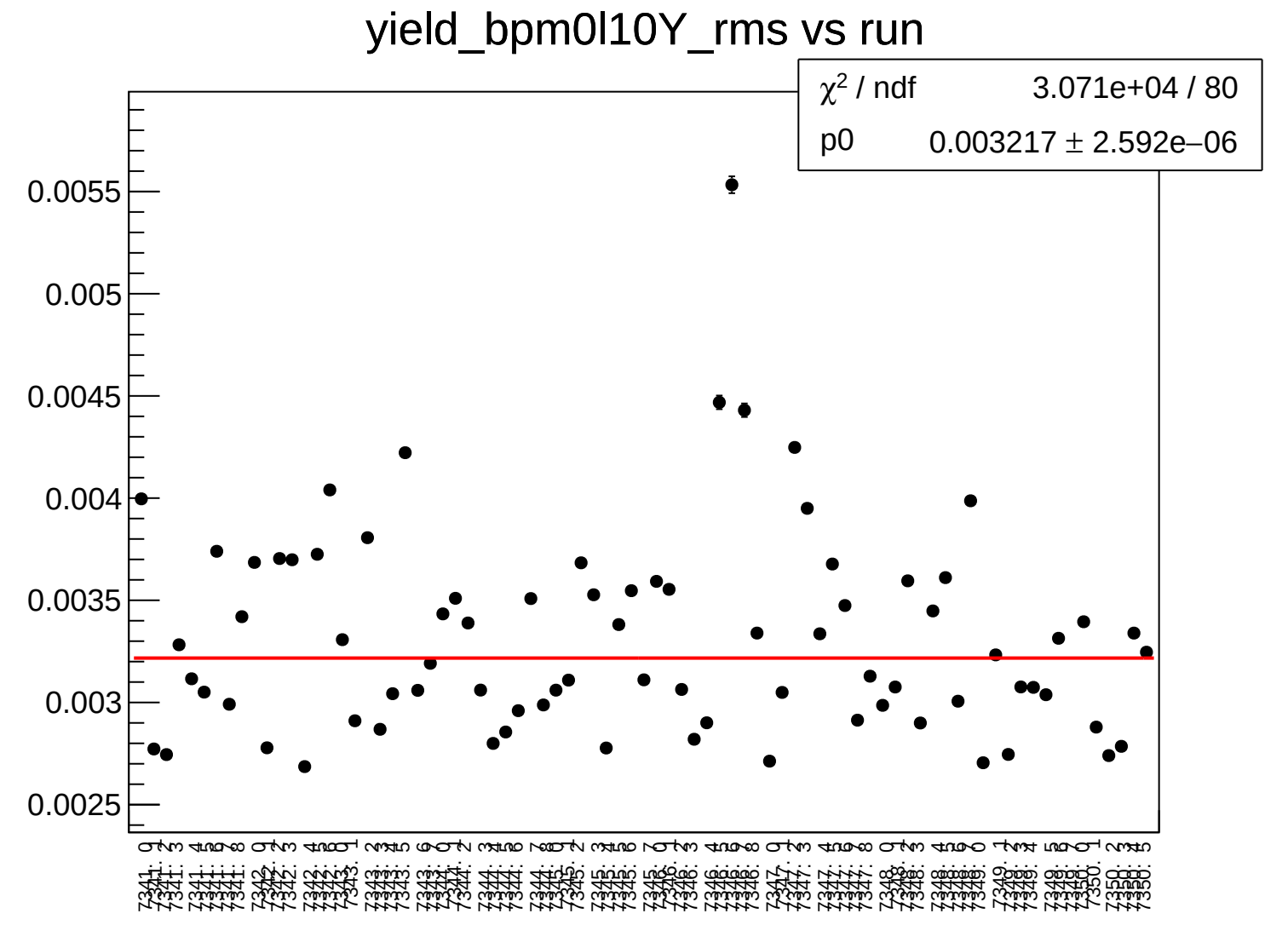

pull1D
Entries 81
Mean 1.846
Std Dev 4.651
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

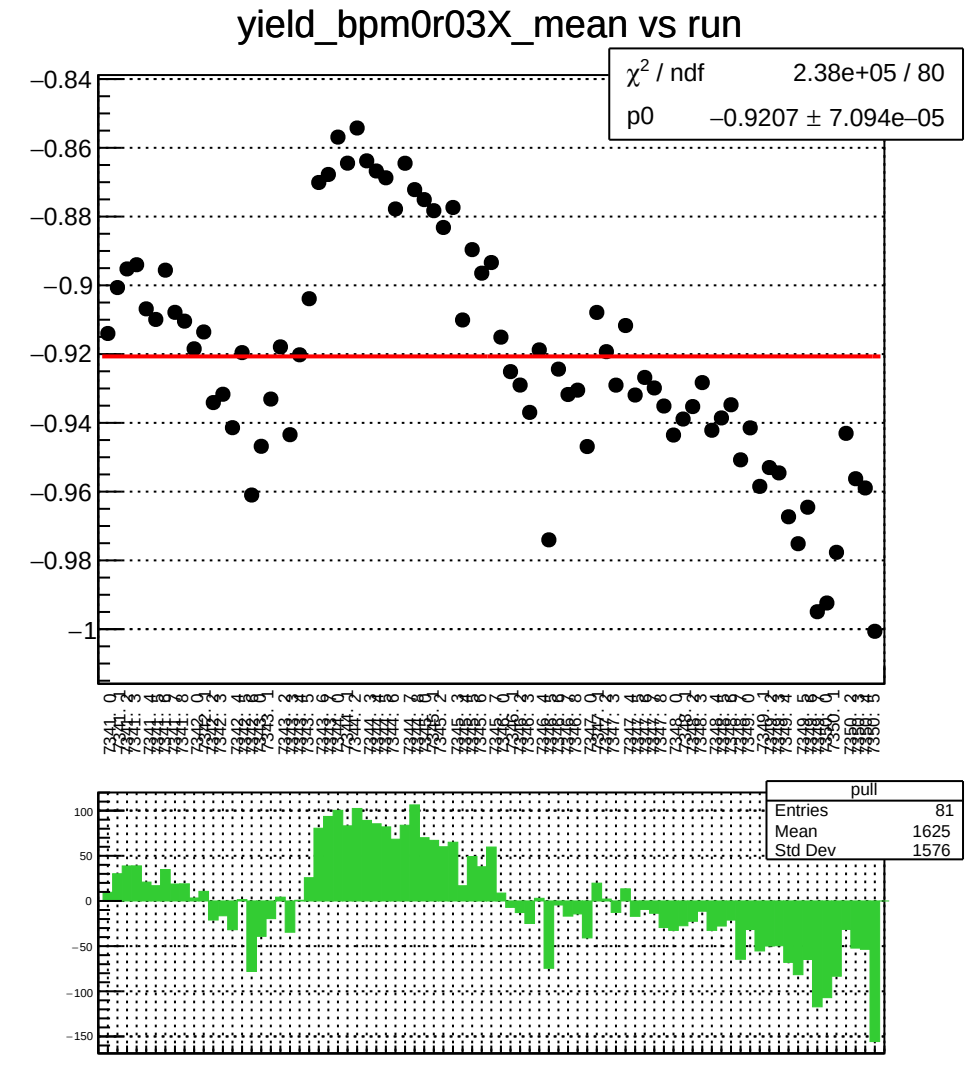

yield_bpm0l10X_rms vs run
χ² / ndf 9871 / 80
p0 0.008852 ± 7.085e−06
0.013
0.012
0.011
0.01
0.009
0.008

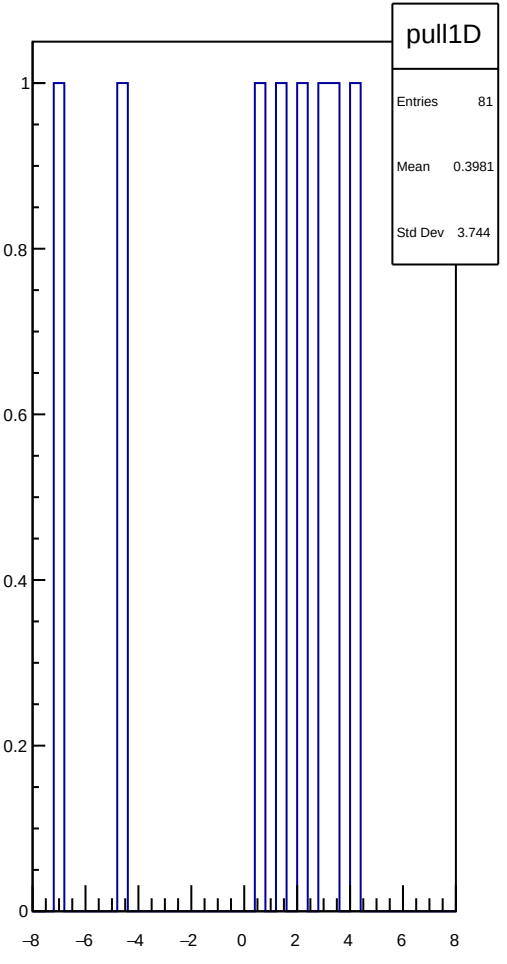

yield_bpm0l10Y_mean vs run
χ² / ndf 2.384e+05 / 80
p0 −0.5838 ± 3.666e−06
−0.578
−0.58
−0.582
−0.584
−0.586
−0.588

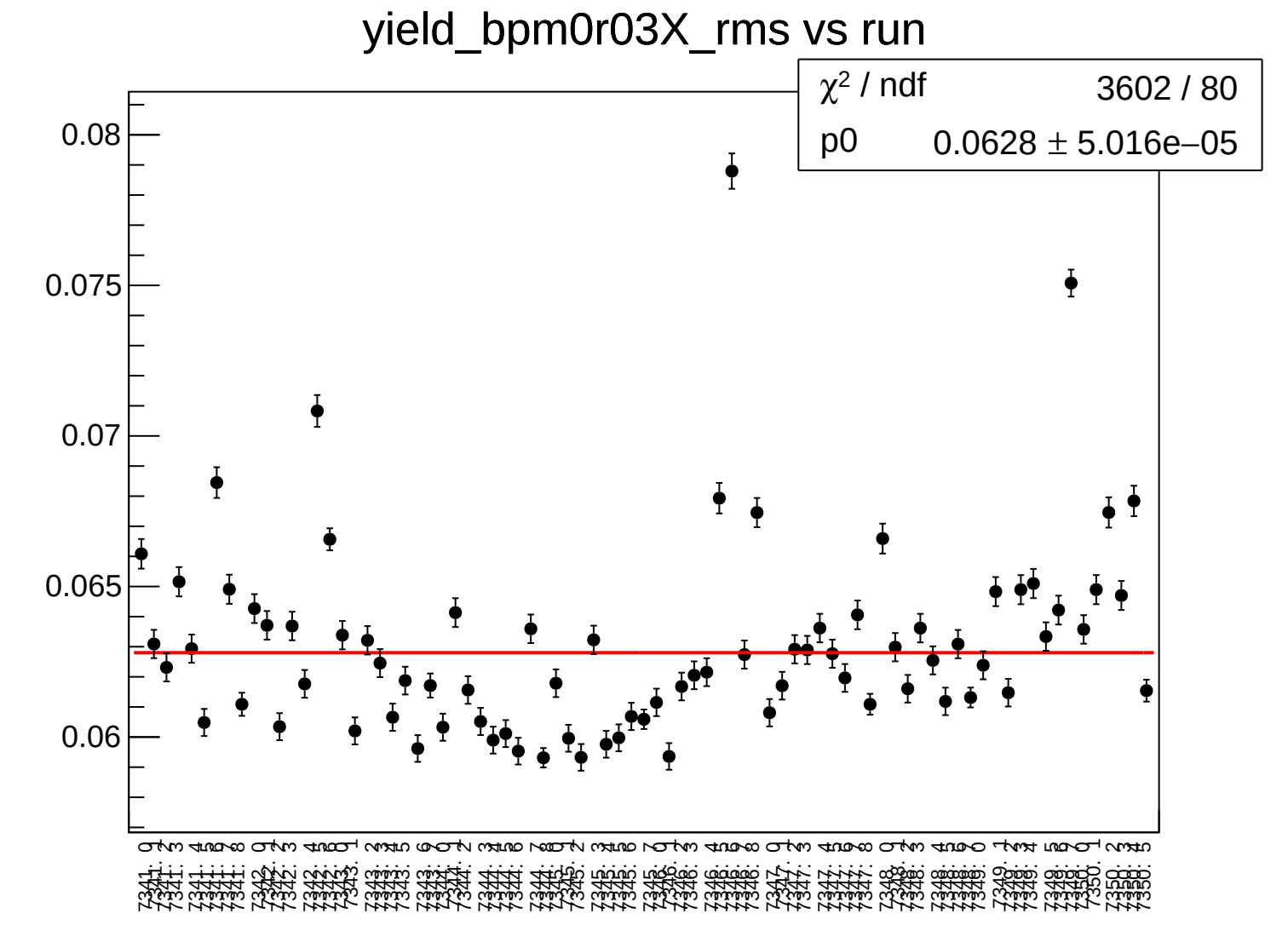

pull
Entries 81
Mean 119.8
Std Dev 87.13
200
150
100
50
0
−50
−100

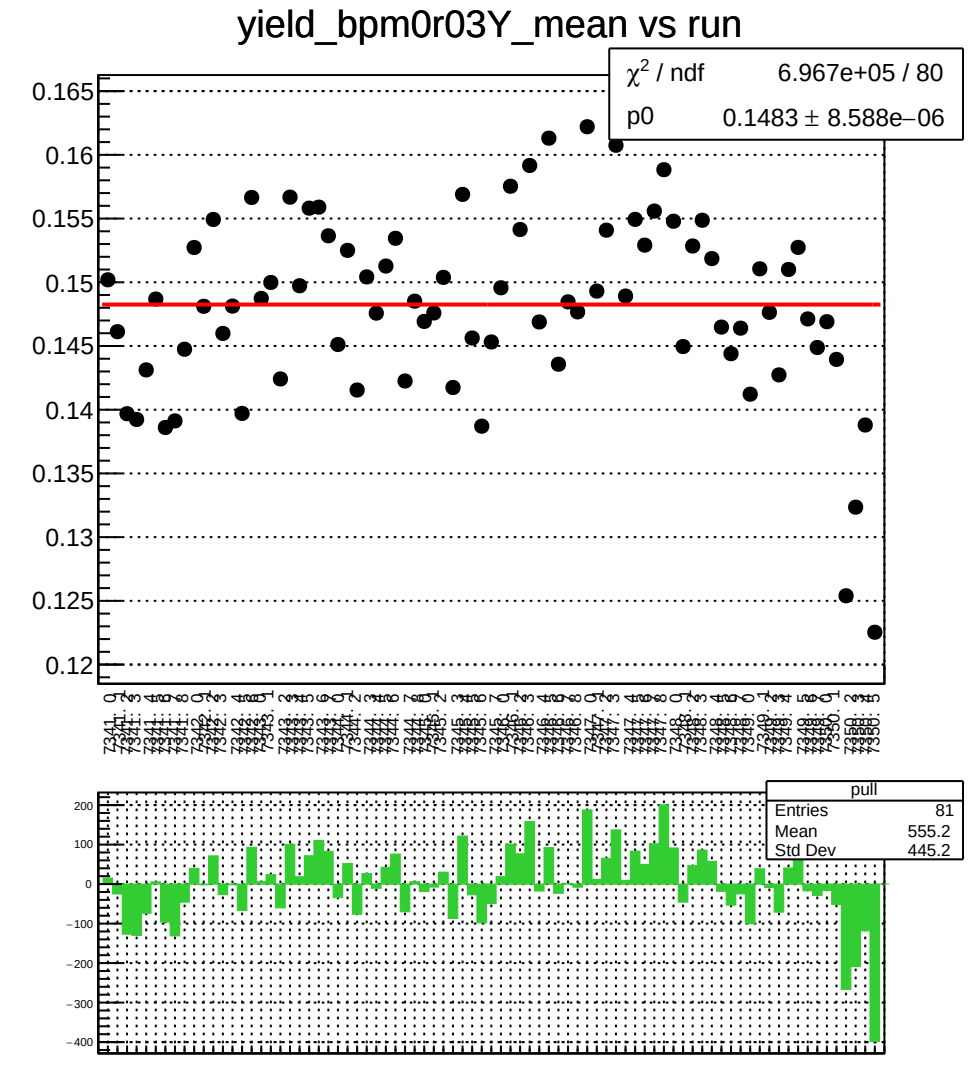

pull1D
Entries 81
Mean −0.03104
Std Dev 4.228
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

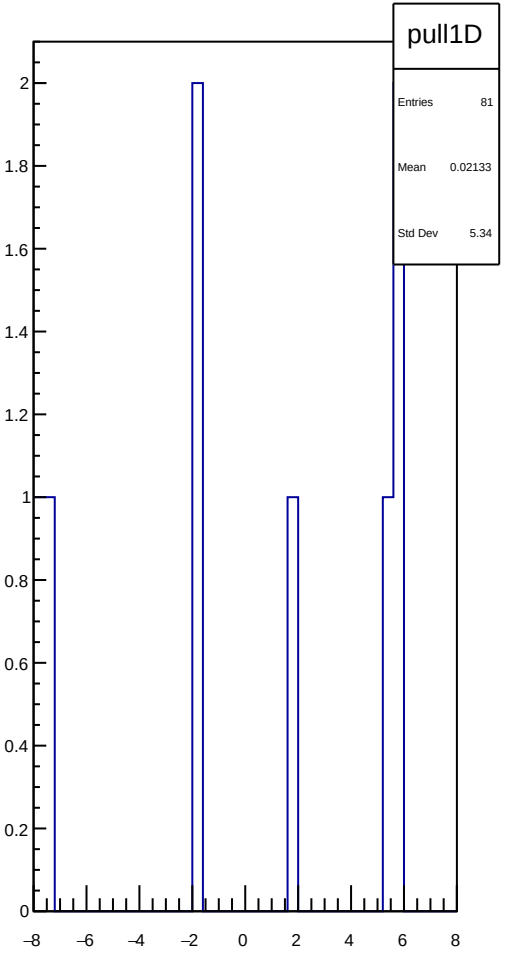

yield_bpm0l10Y_rms vs run
χ² / ndf 3.071e+04 / 80
p0 0.003217 ± 2.592e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

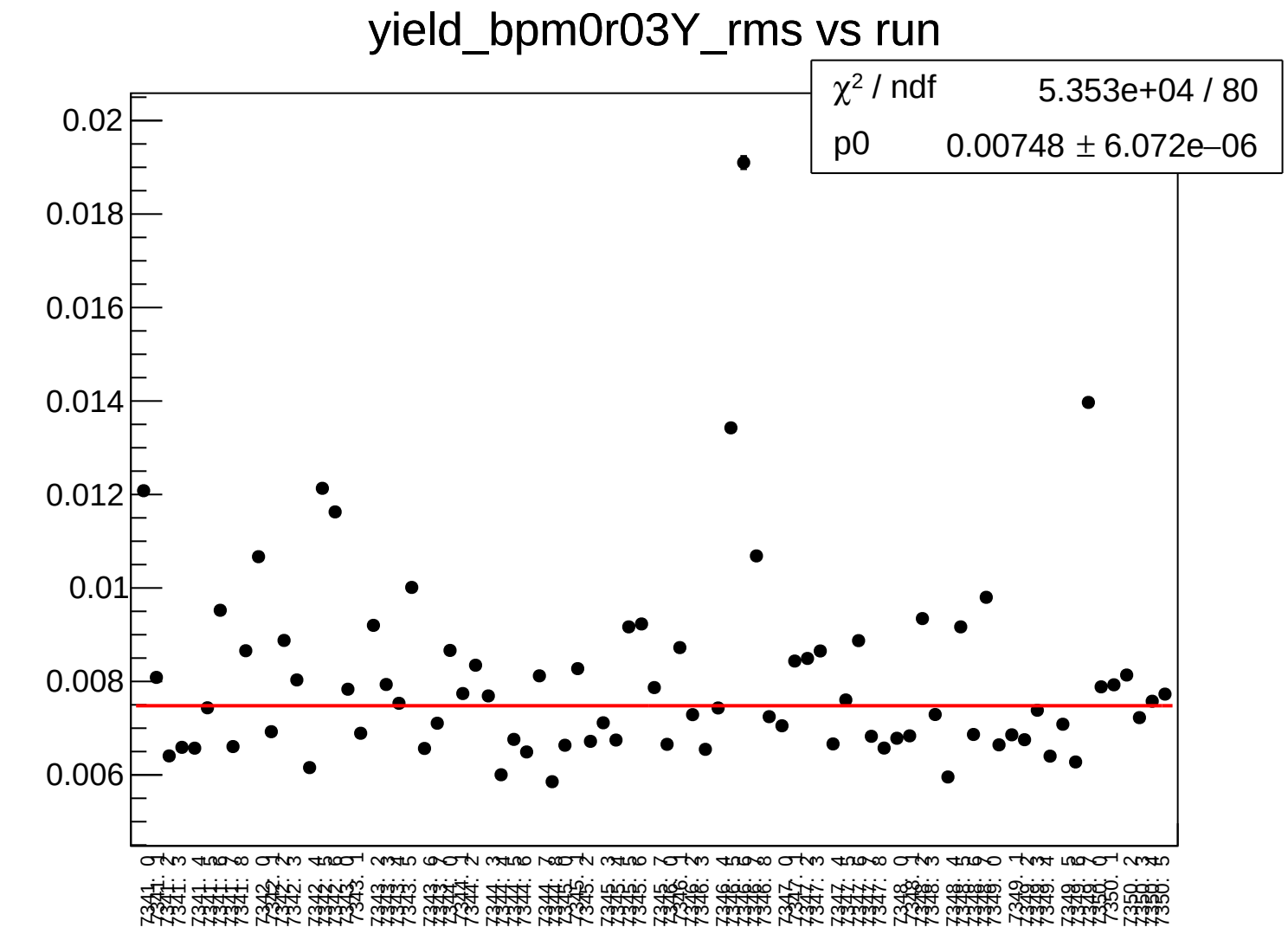

yield_bpm0r03X_mean vs run
χ² / ndf 2.38e+05 / 80
p0 −0.9207 ± 7.094e−05
pull
Entries 81
Mean 1625
Std Dev 1576

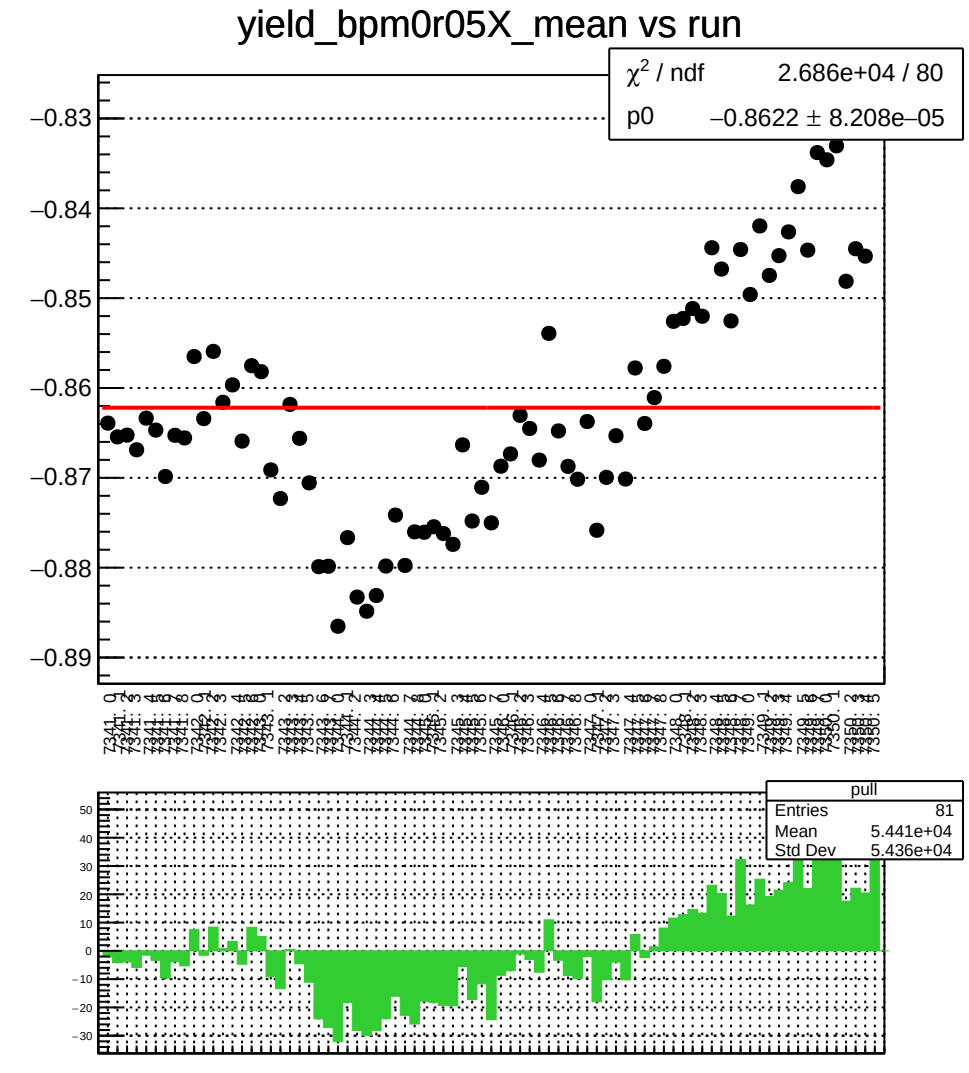

pull1D
Entries 81
Mean 0.3981
Std Dev 3.744

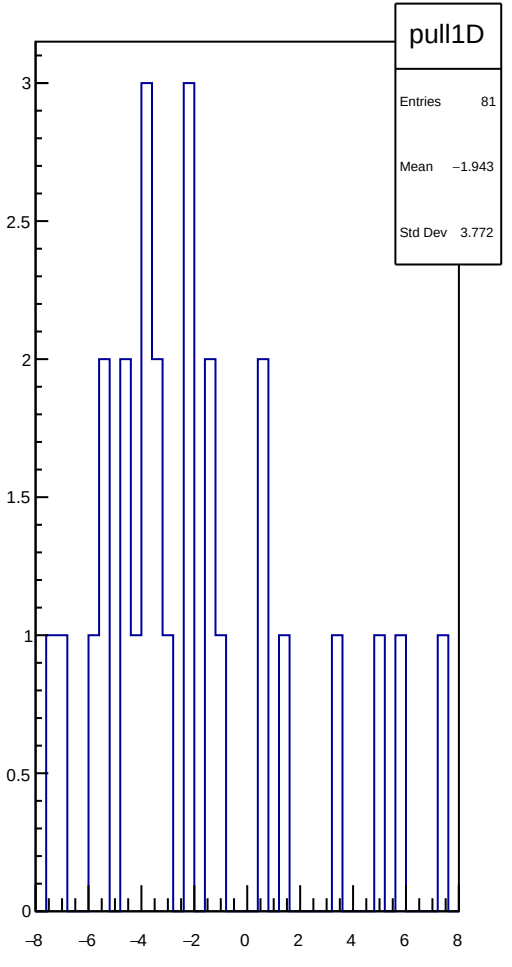

yield_bpm0r03X_rms vs run
χ² / ndf 3602 / 80
p0 0.0628 ± 5.016e−05
0.08
0.075
0.07
0.065
0.06

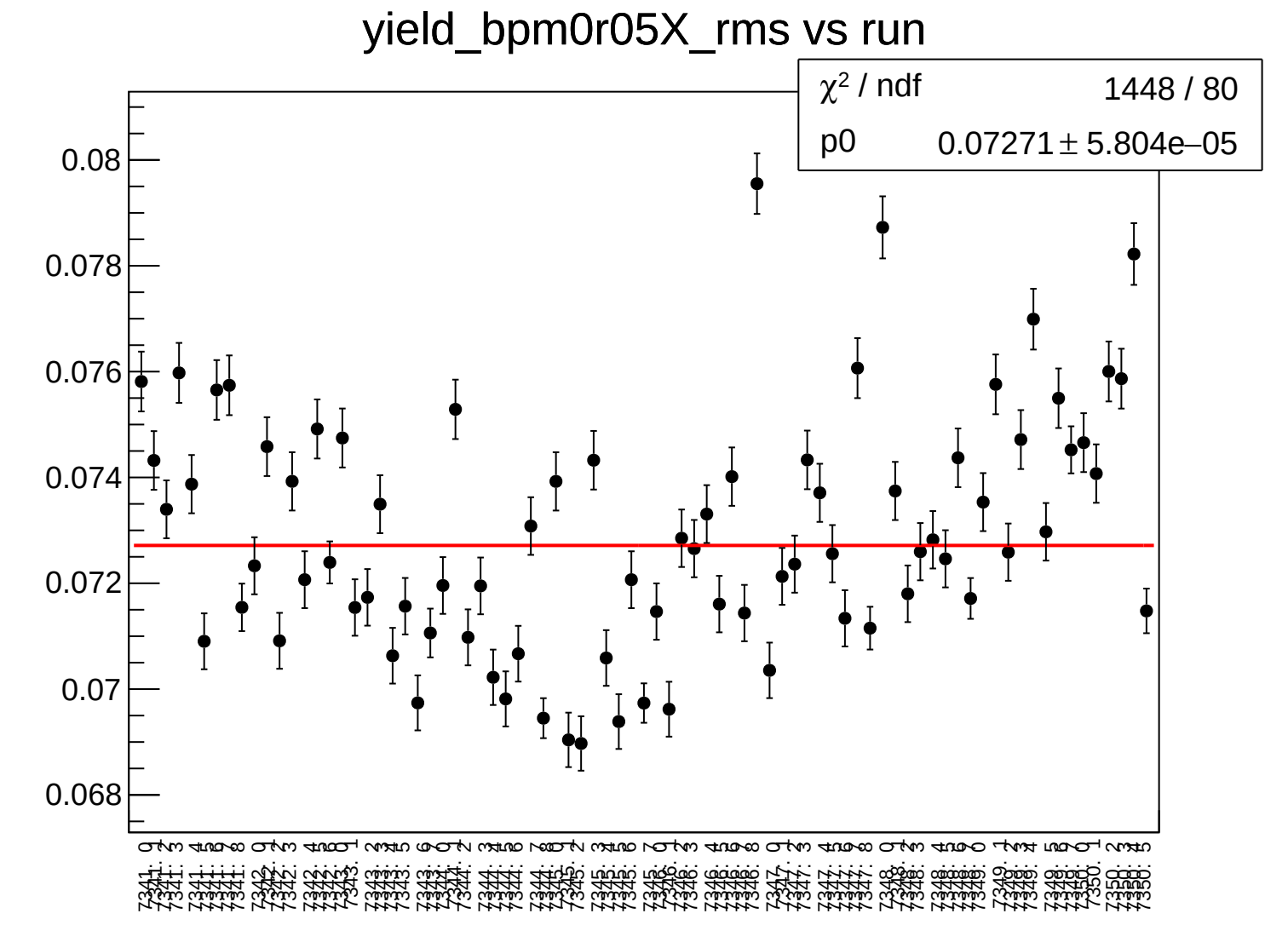

yield_bpm0r03Y_mean vs run
χ² / ndf 6.967e+05 / 80
p0 0.1483 ± 8.588e−06
pull
Entries 81
Mean 555.2
Std Dev 445.2

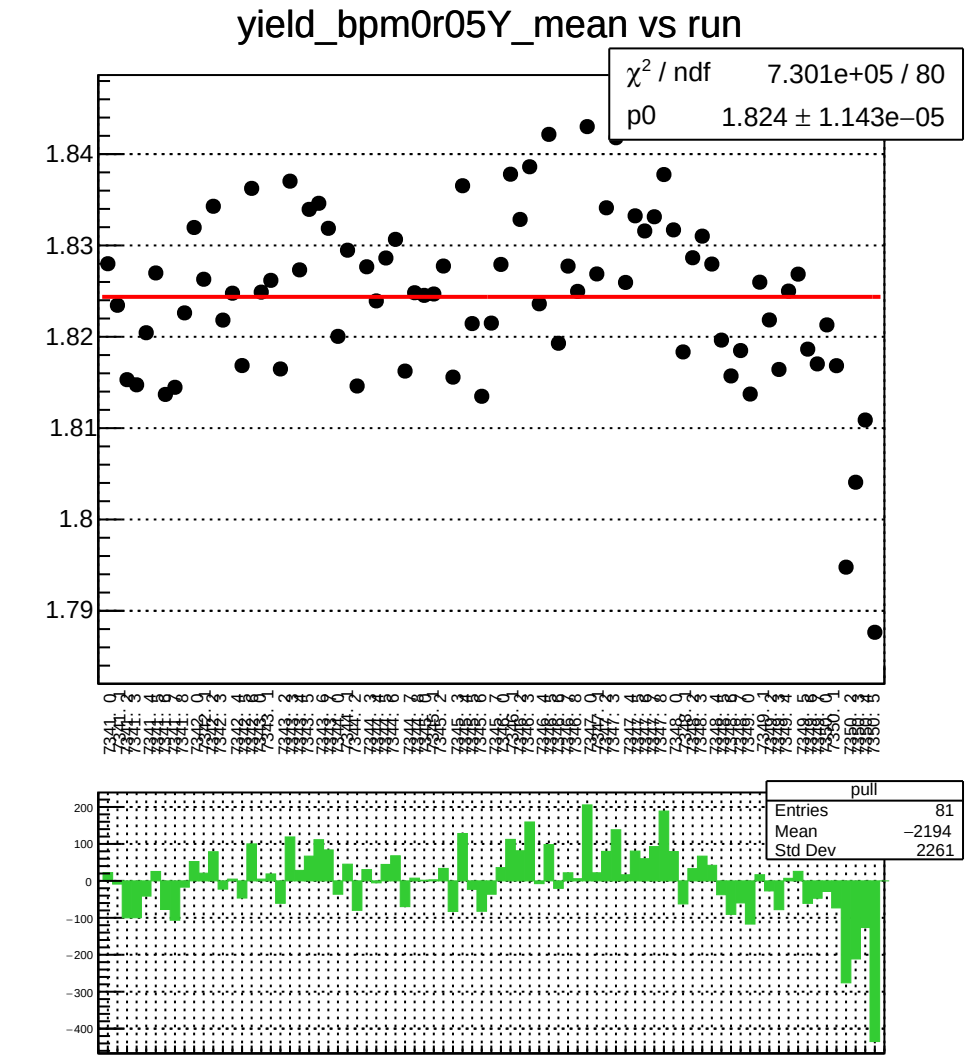

pull1D
Entries 81
Mean 0.02133
Std Dev 5.34

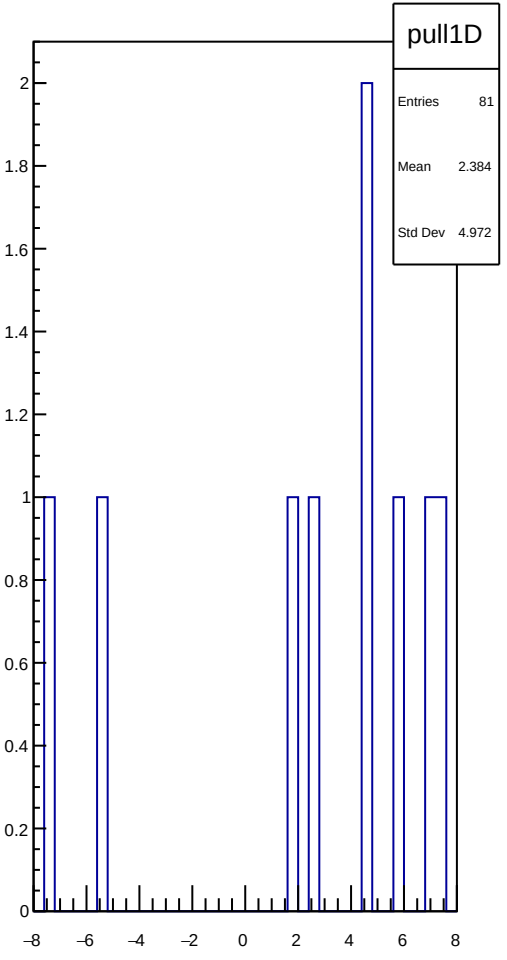

yield_bpm0r03Y_rms vs run
χ² / ndf 5.353e+04 / 80
p0 0.00748 ± 6.072e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

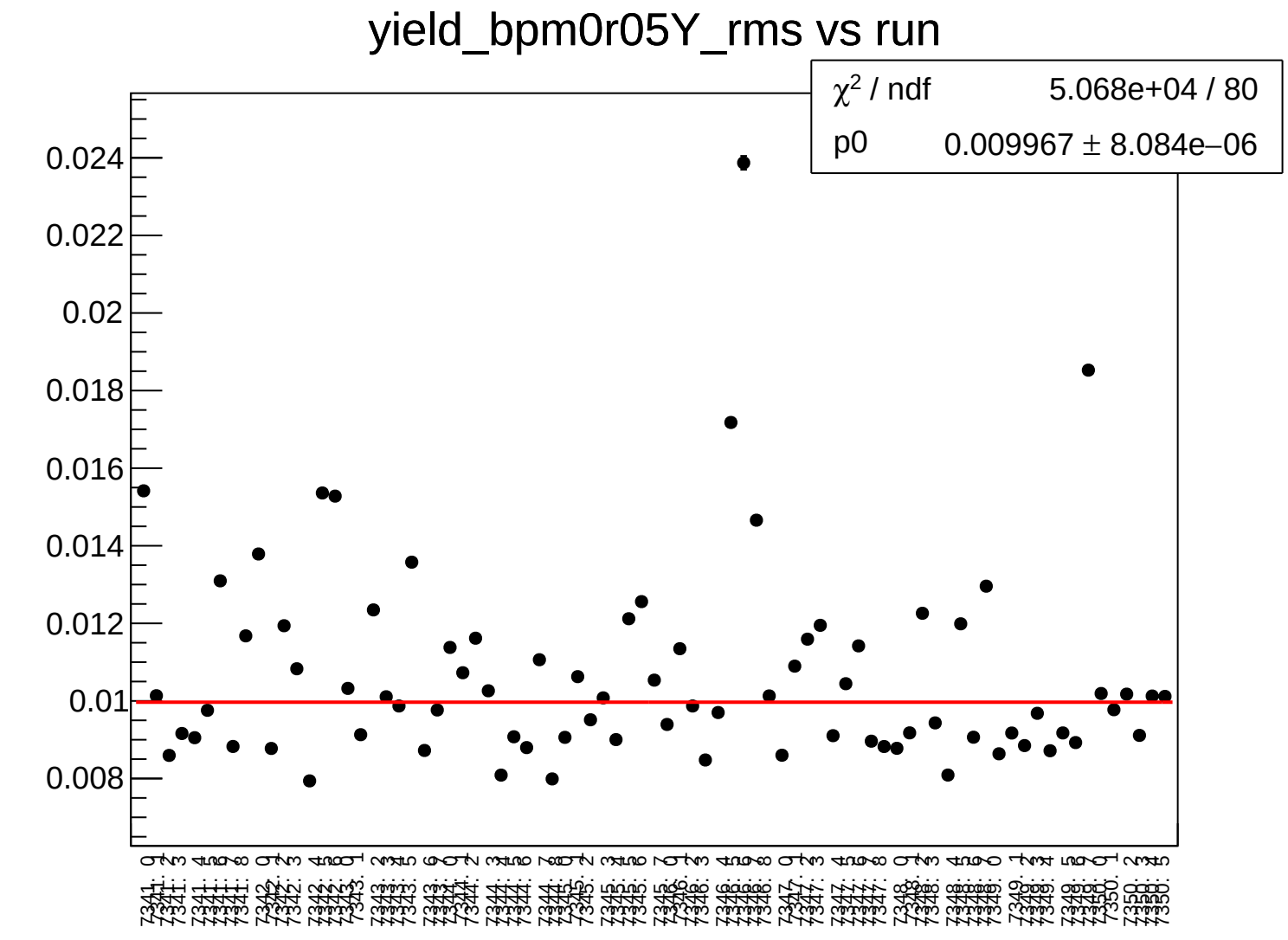

yield_bpm0r05X_mean vs run
χ² / ndf 2.686e+04 / 80
p0 −0.8622 ± 8.208e−05
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88
−0.89
pull
Entries 81
Mean 5.441e+04
Std Dev 5.436e+04
50
40
30
20
10
0
−10
−20
−30

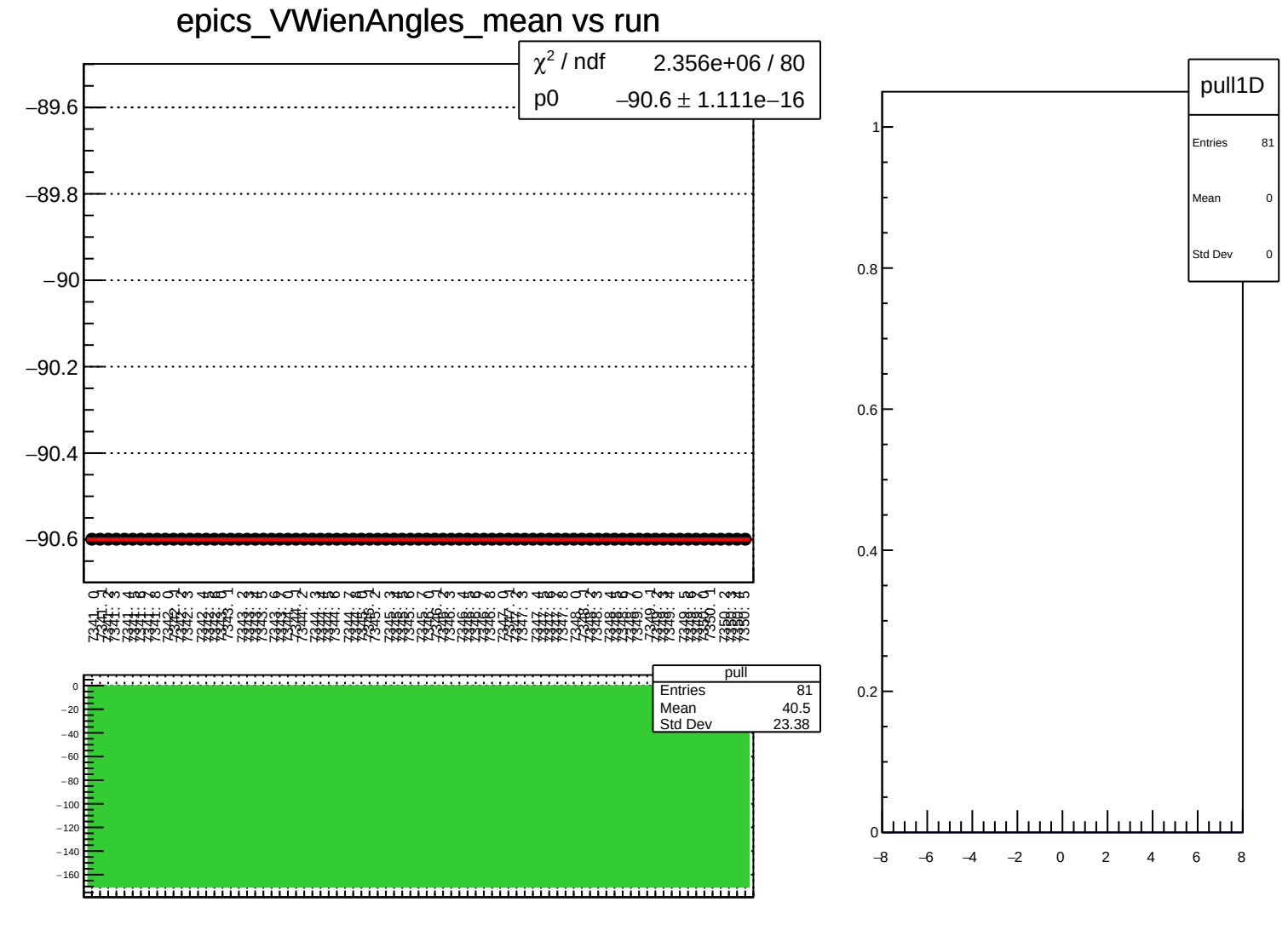

pull1D
Entries 81
Mean −1.943
Std Dev 3.772
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

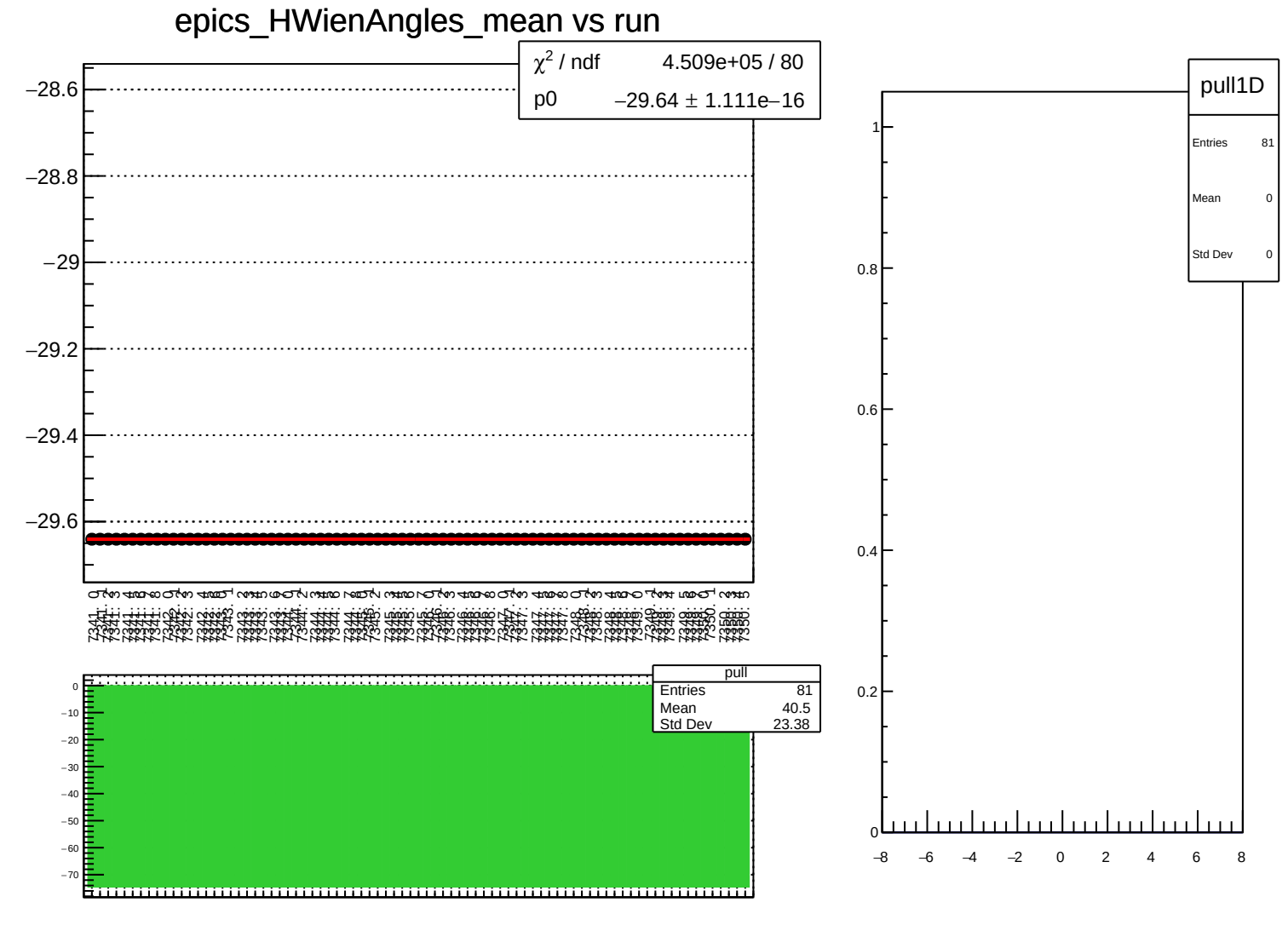

yield_bpm0r05X_rms vs run
χ² / ndf 1448 / 80
p0 0.07271 ± 5.804e−05
0.08
0.078
0.076
0.074
0.072
0.07
0.068

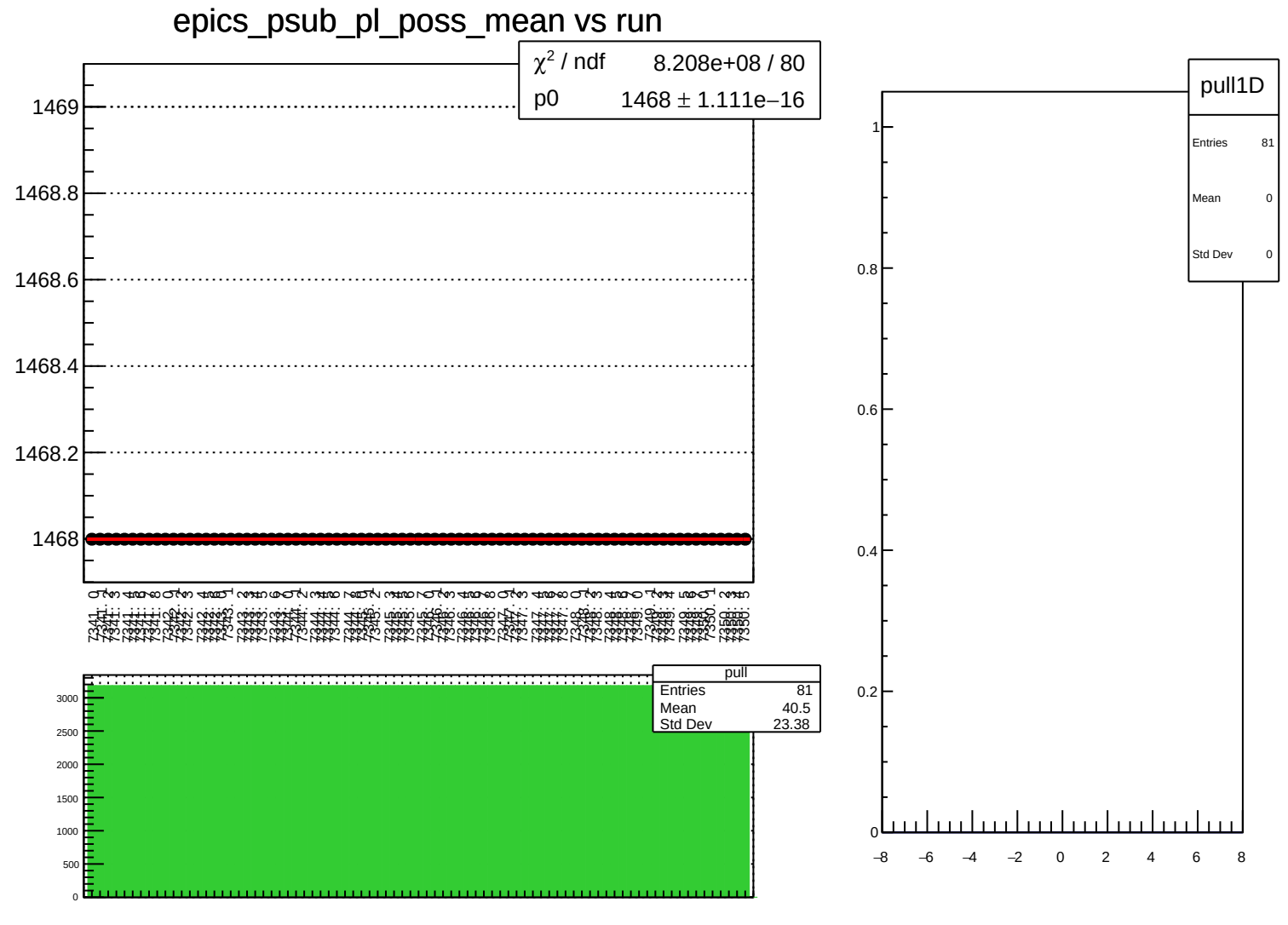

yield_bpm0r05Y_mean vs run
χ² / ndf 7.301e+05 / 80
p0 1.824 ± 1.143e−05
1.84
1.83
1.82
1.81
1.8
1.79
pull
Entries 81
Mean −2194
Std Dev 2261
200
100
0
−100
−200
−300
−400

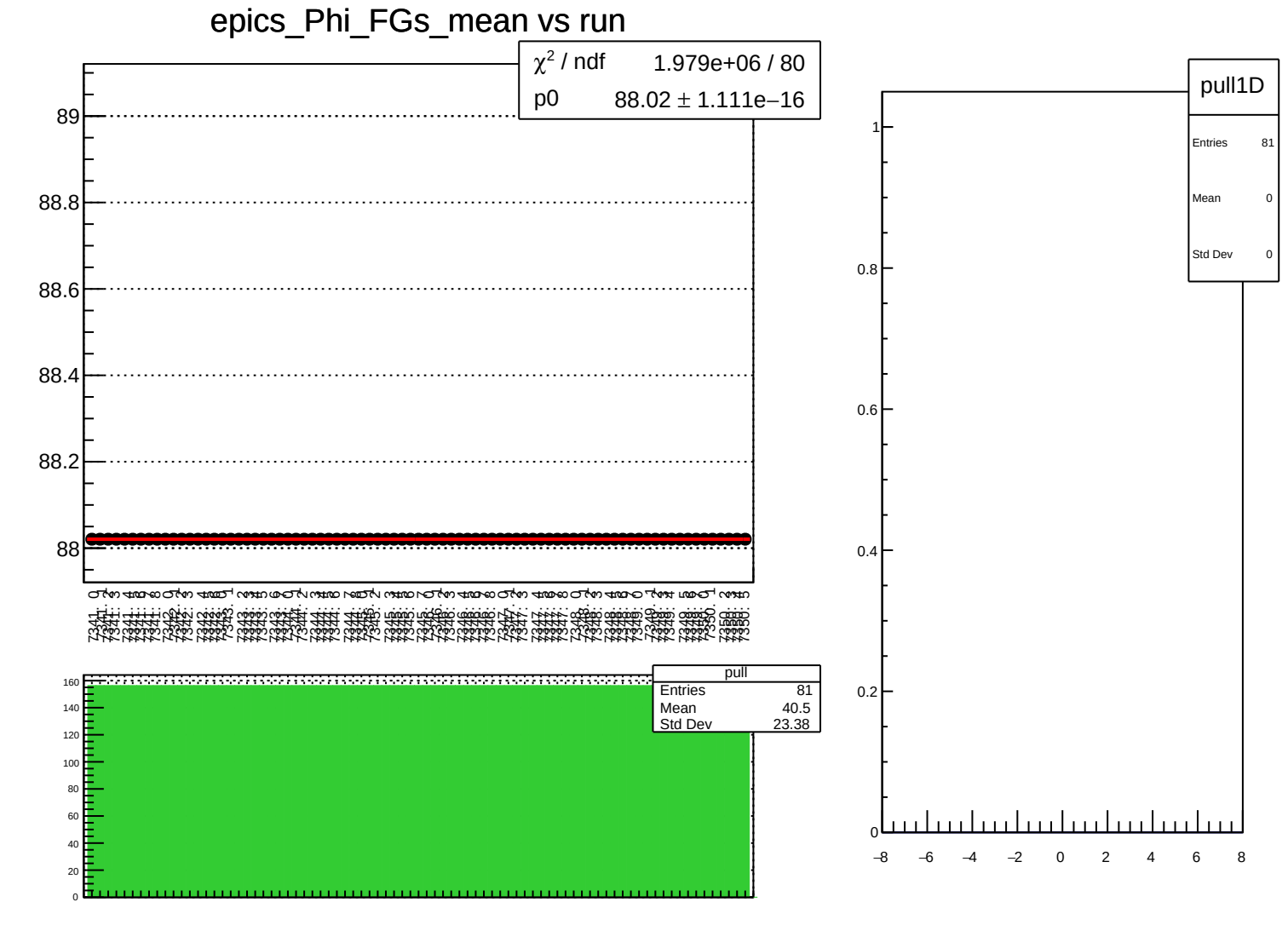

pull1D
Entries 81
Mean 2.384
Std Dev 4.972
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

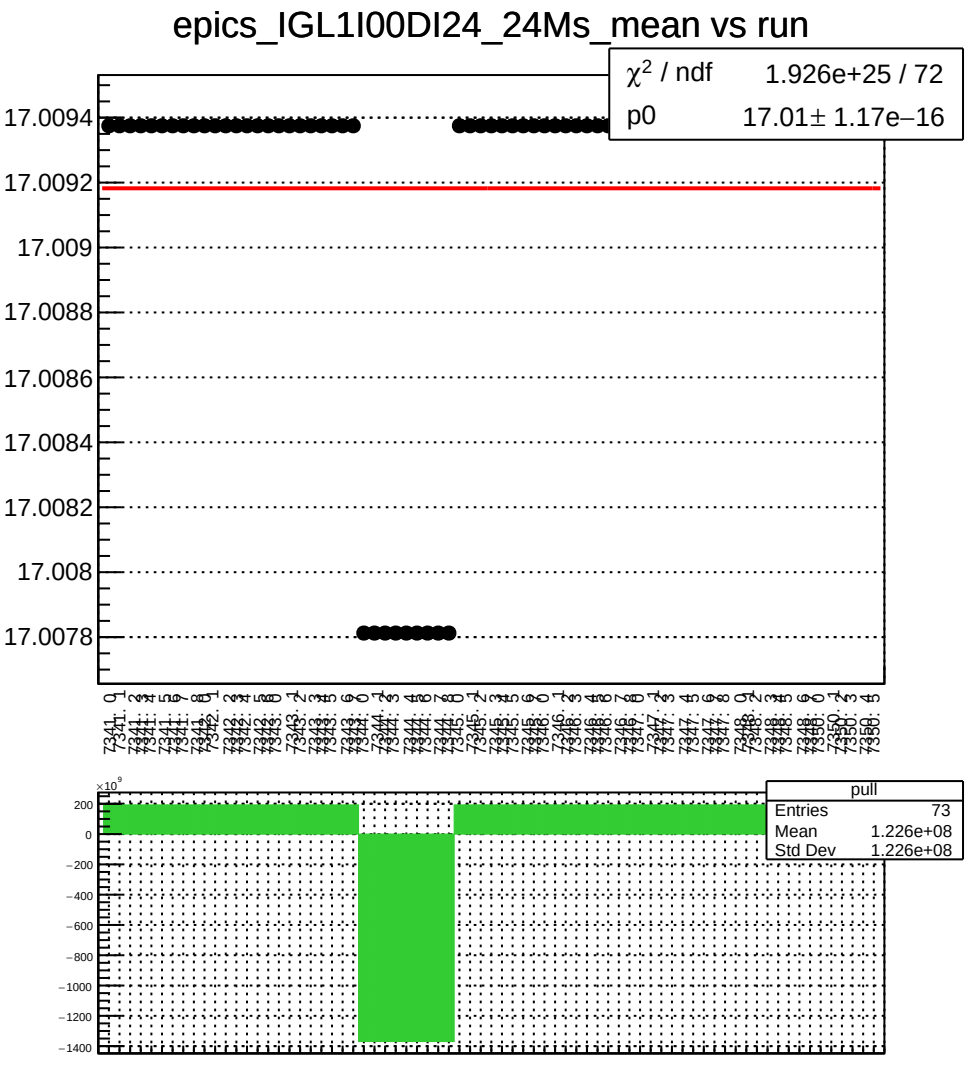

yield_bpm0r05Y_rms vs run
χ^2 / ndf 5.068e+04 / 80
p0 0.009967 ± 8.084e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

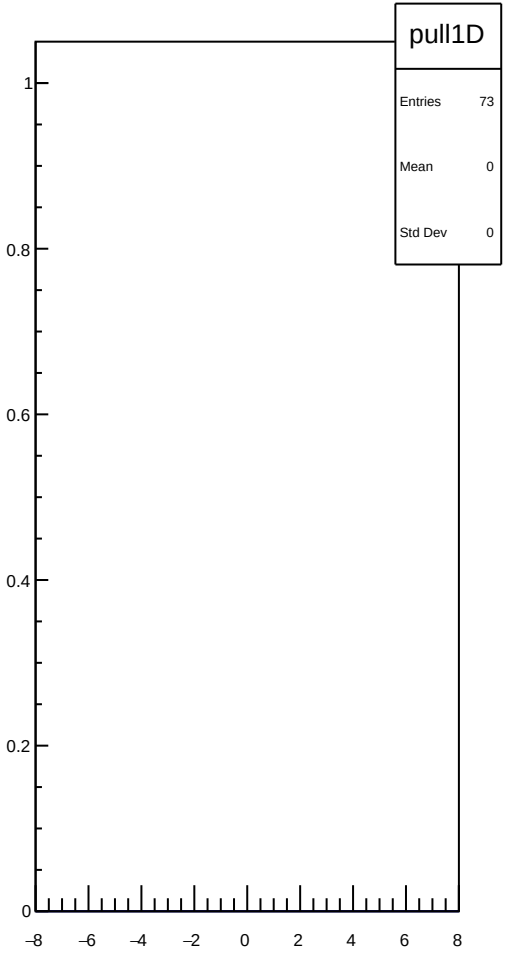

epics_VWienAngles_mean vs run
χ² / ndf 2.356e+06 / 80
p0 −90.6 ± 1.111e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−20
−40
−60
−80
−100
−120
−140
−160
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

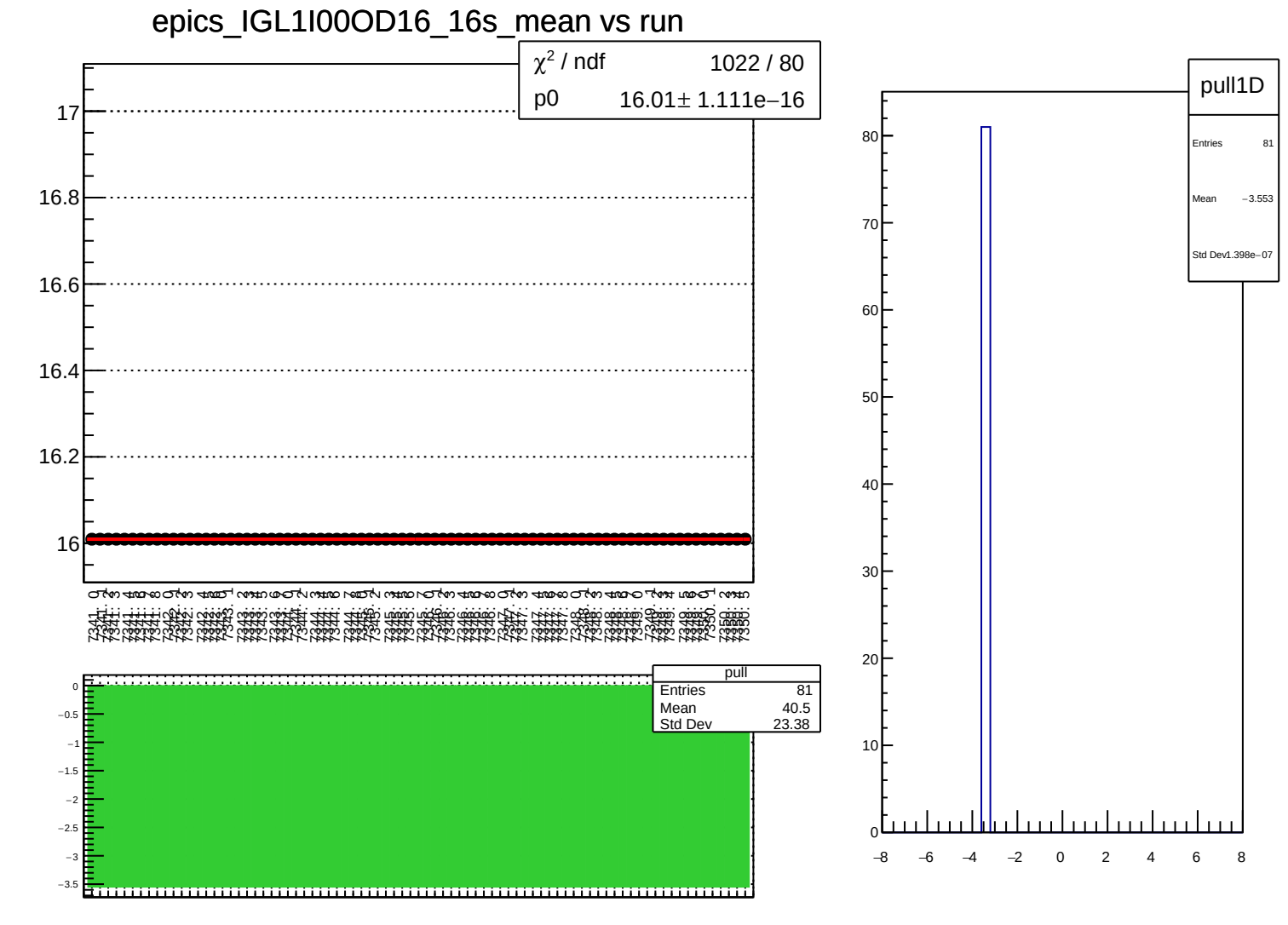

epics_HWienAngles_mean vs run
χ² / ndf 4.509e+05 / 80
p0 −29.64 ± 1.111e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

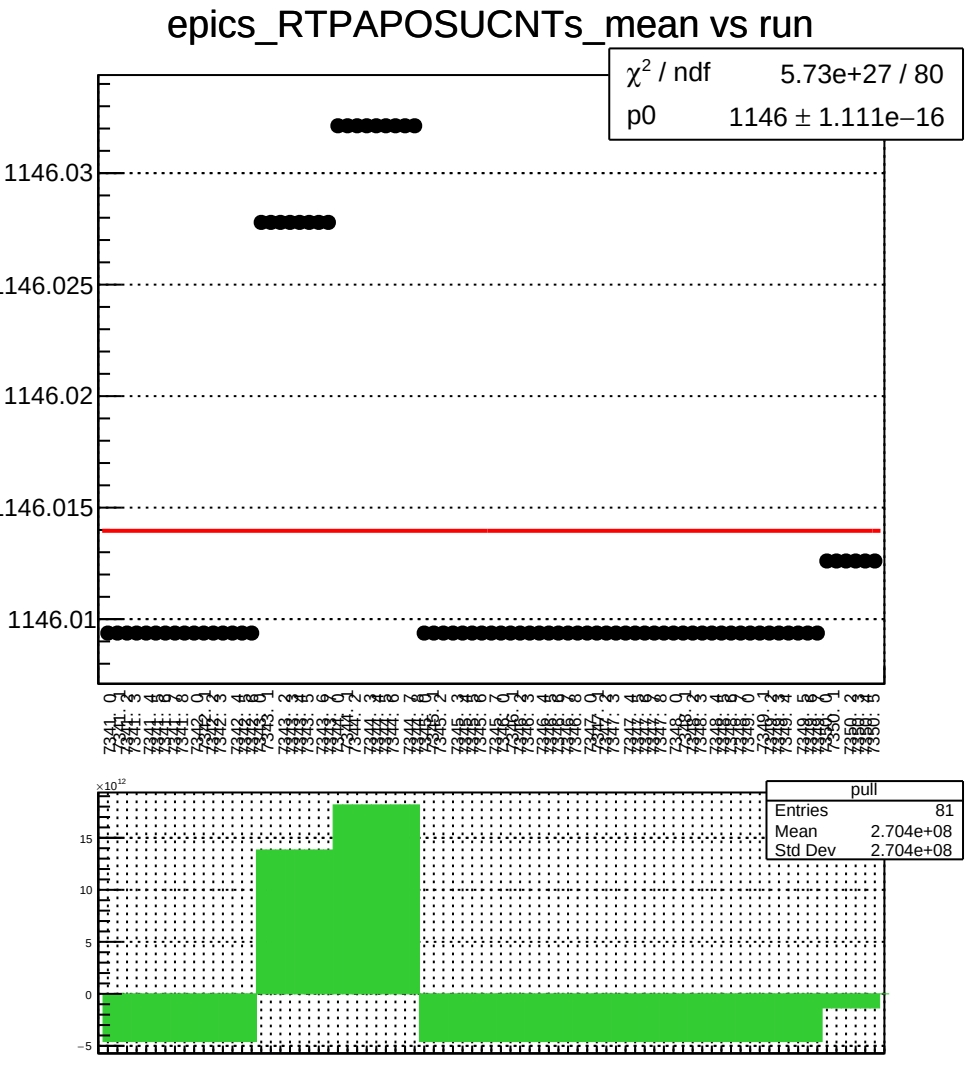

epics_psub_pl_poss_mean vs run
χ² / ndf 8.208e+08 / 80
p0 1468 ± 1.111e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 81
Mean 40.5
Std Dev 23.38
3000
2500
2000
1500
1000
500
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

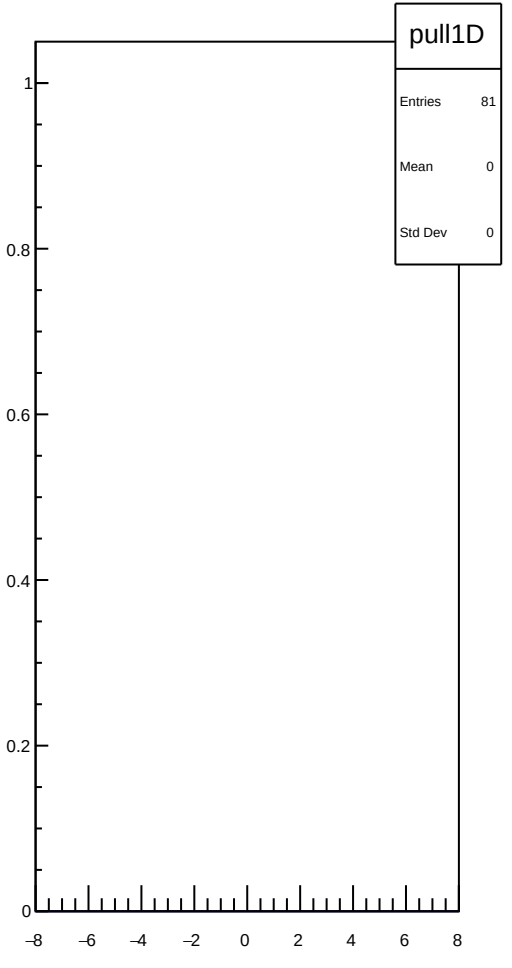

epics_Phi_FGs_mean vs run
χ² / ndf 1.979e+06 / 80
p0 88.02 ± 1.111e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 81
Mean 40.5
Std Dev 23.38
160
140
120
100
80
60
40
20
0
pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

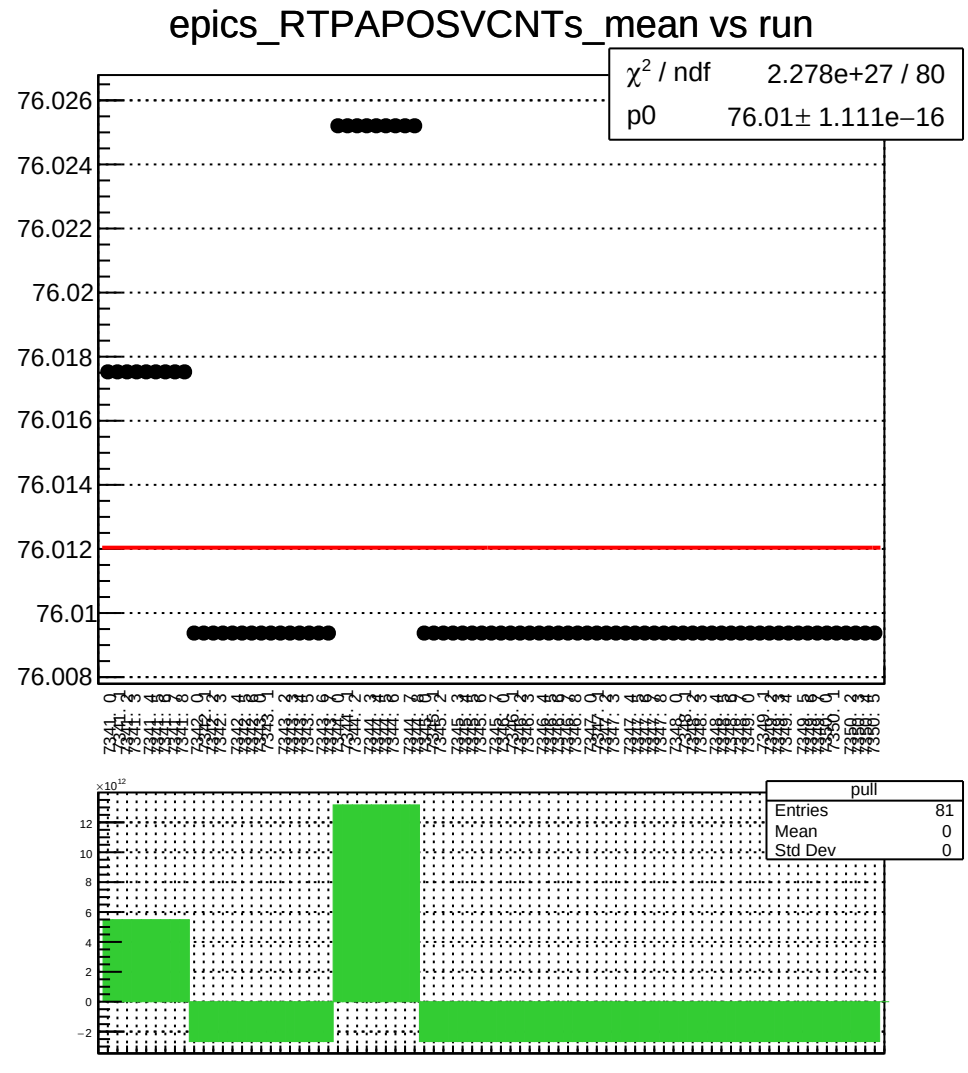

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.926e+25 / 72
p0 17.01± 1.17e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
×10⁹
200
0
−200
−400
−600
−800
−1000
−1200
−1400
pull
Entries 73
Mean 1.226e+08
Std Dev 1.226e+08

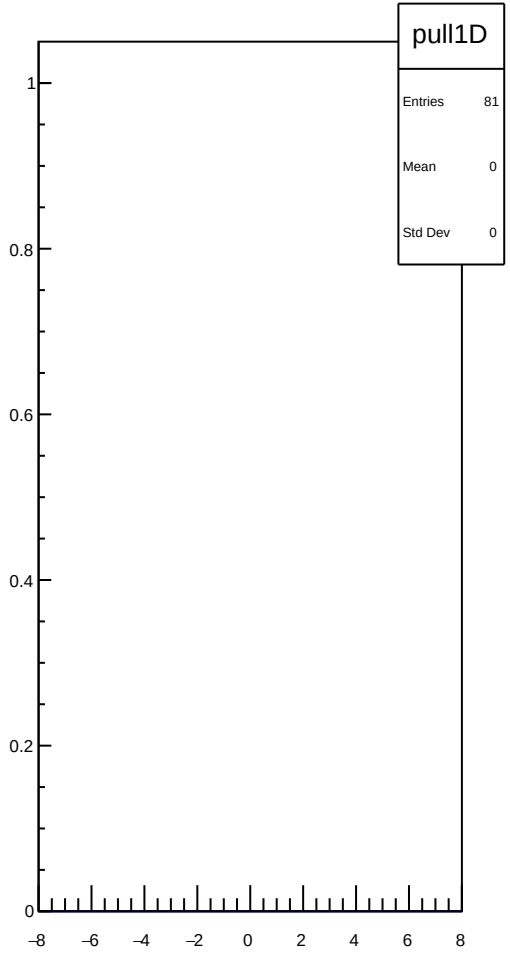

pull1D
Entries 73
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 1022 / 80
p0 16.01± 1.111e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 81
Mean 40.5
Std Dev 23.38
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 81
Mean −3.553
Std Dev 1.398e−07
80
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 5.73e+27 / 80
p0 1146 ± 1.111e−16
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 81
Mean 2.704e+08
Std Dev 2.704e+08
×10¹²
15
10
5
0
−5


pull1D
Entries 81
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 2.278e+27 / 80
p0 76.01± 1.111e−16
76.026
76.024
76.022
76.02
76.018
76.016
76.014
76.012
76.01
76.008
pull
Entries 81
Mean 0
Std Dev 0
×10¹²
12
10
8
6
4
2
0
−2


pull1D
Entries 81
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8