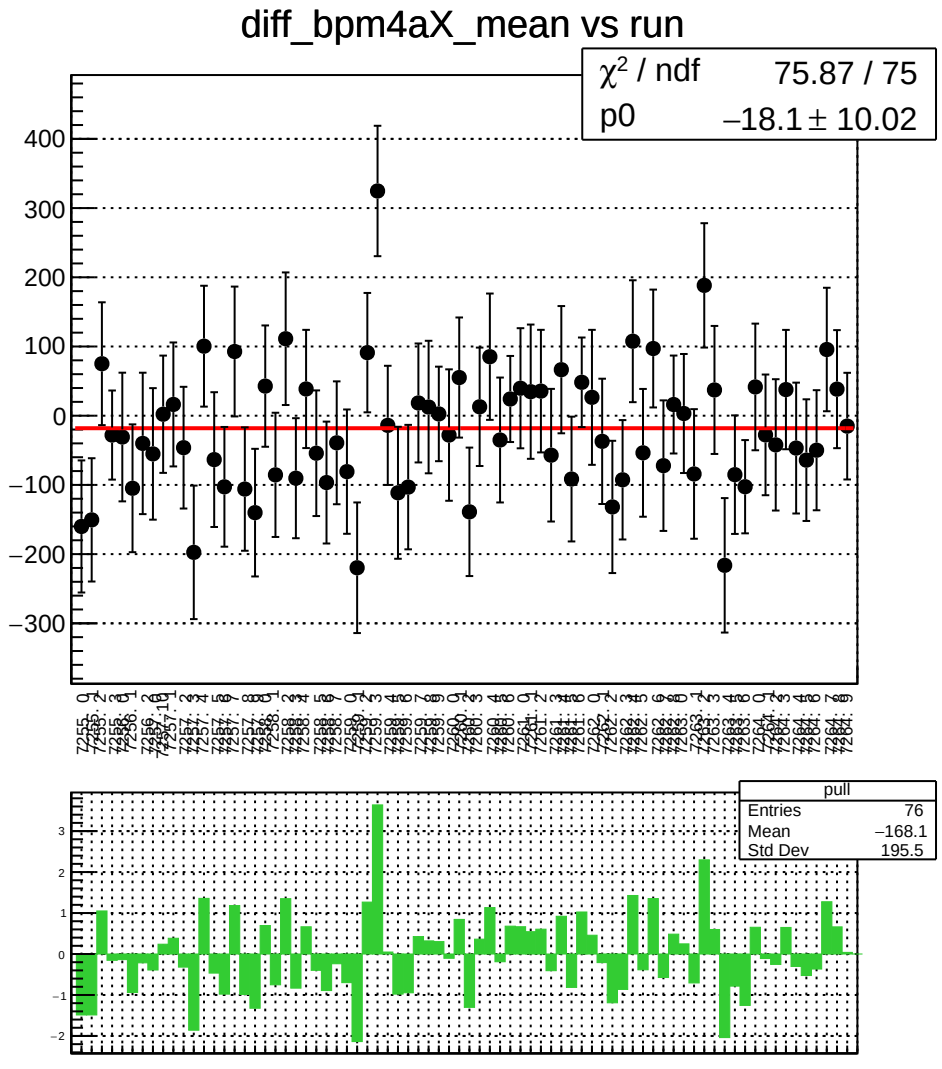
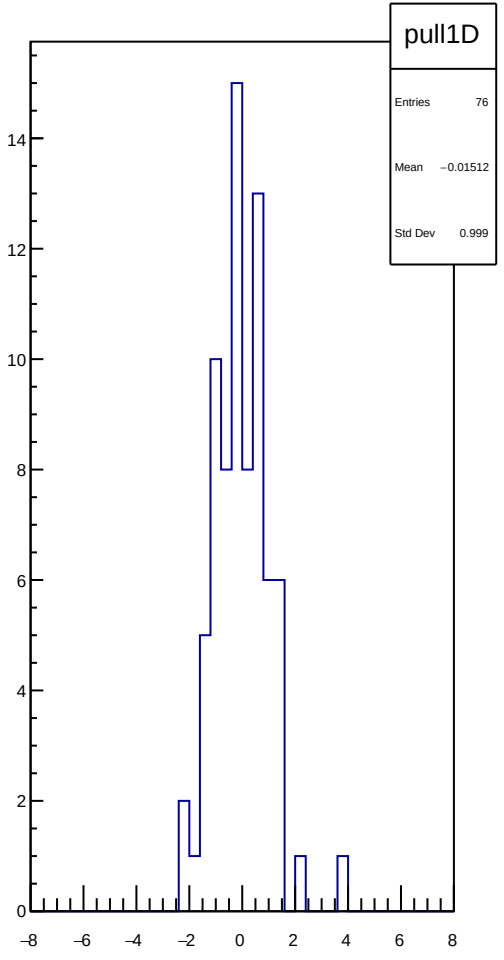
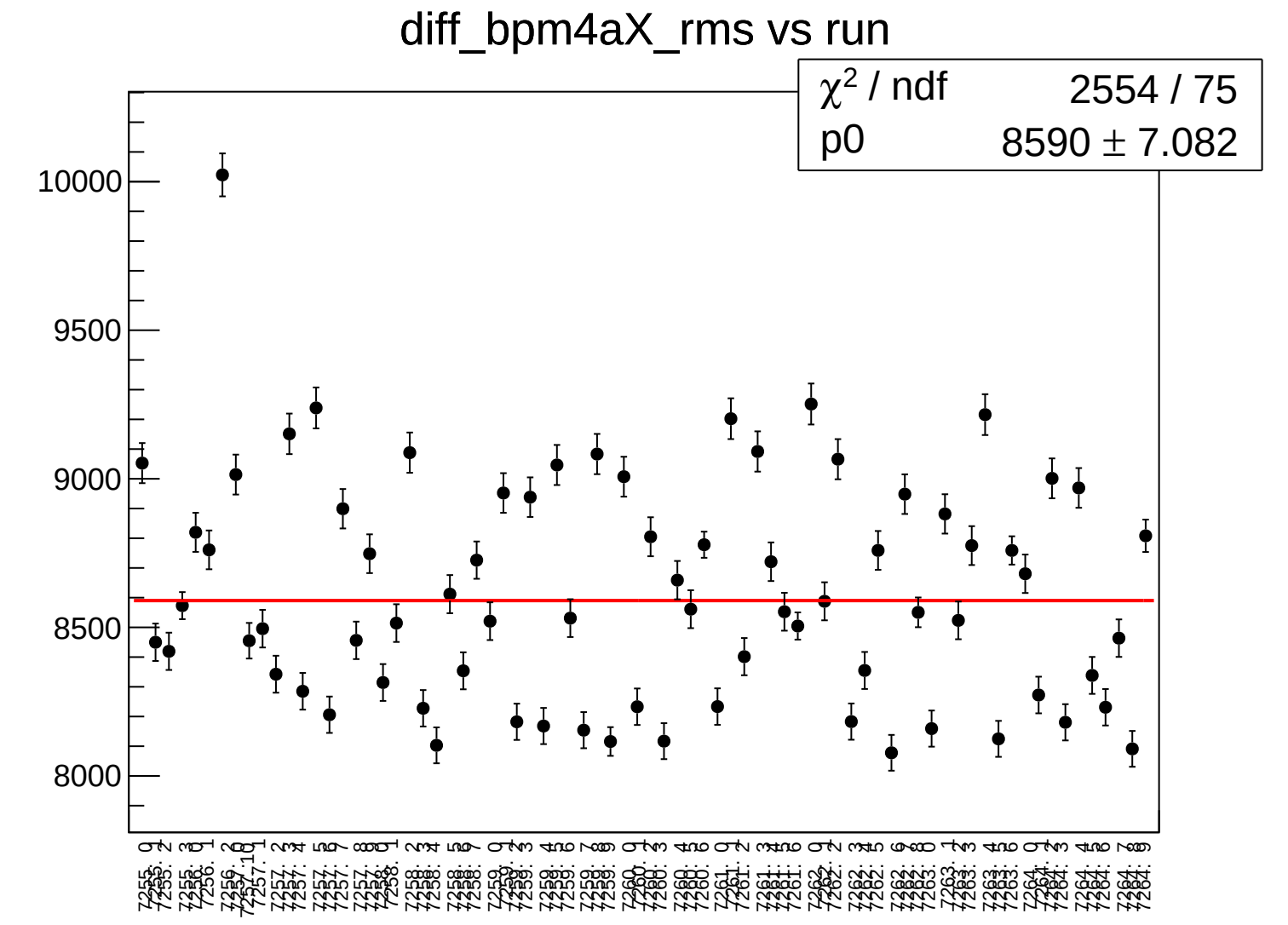
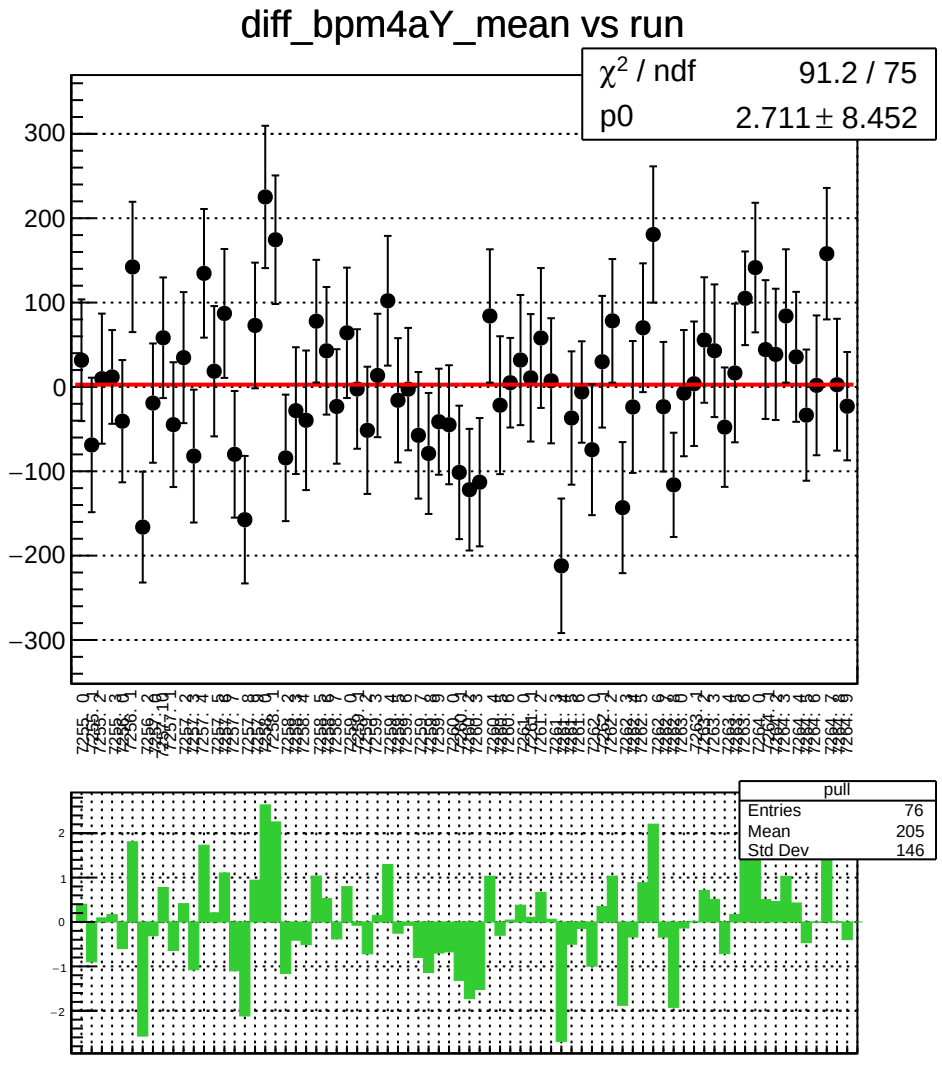
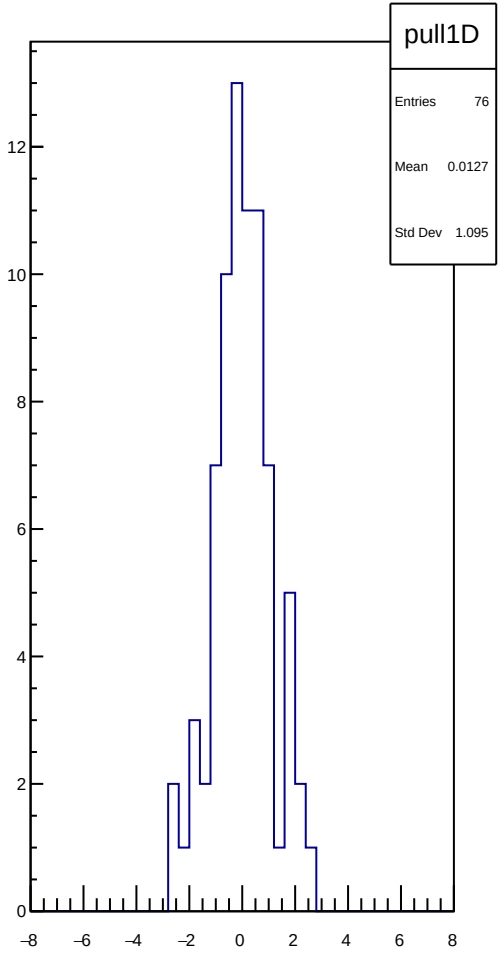
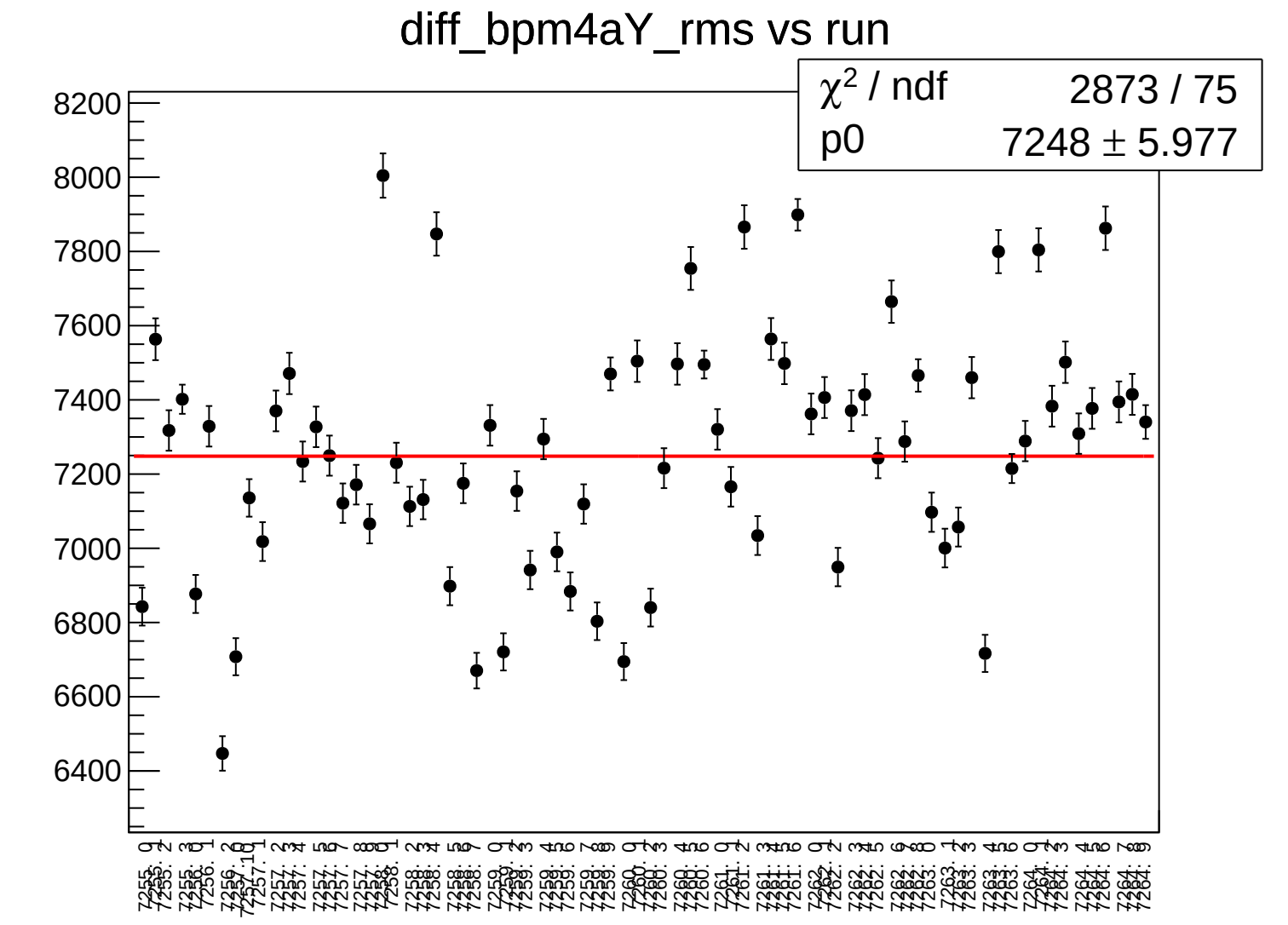

diff_bpm4aX_mean vs run
χ² / ndf 75.87 / 75
p0 −18.1 ± 10.02
pull
Entries 76
Mean −168.1
Std Dev 195.5

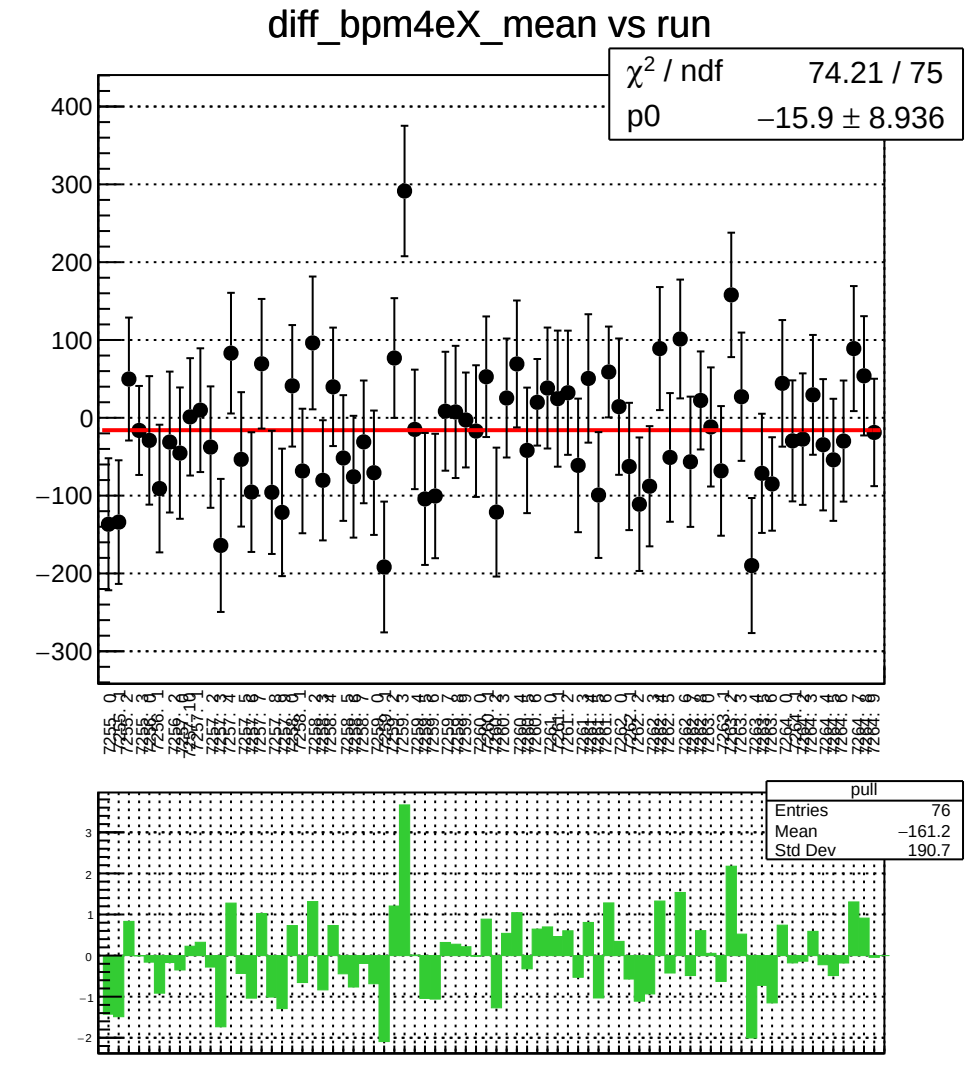

pull1D
Entries 76
Mean −0.01512
Std Dev 0.999

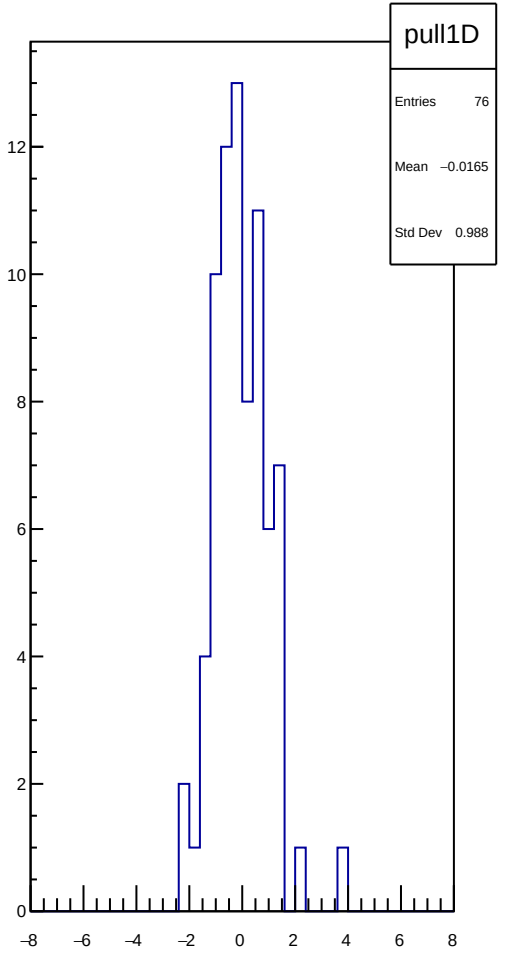

diff_bpm4aX_rms vs run
χ² / ndf 2554 / 75
p0 8590 ± 7.082
10000
9500
9000
8500
8000

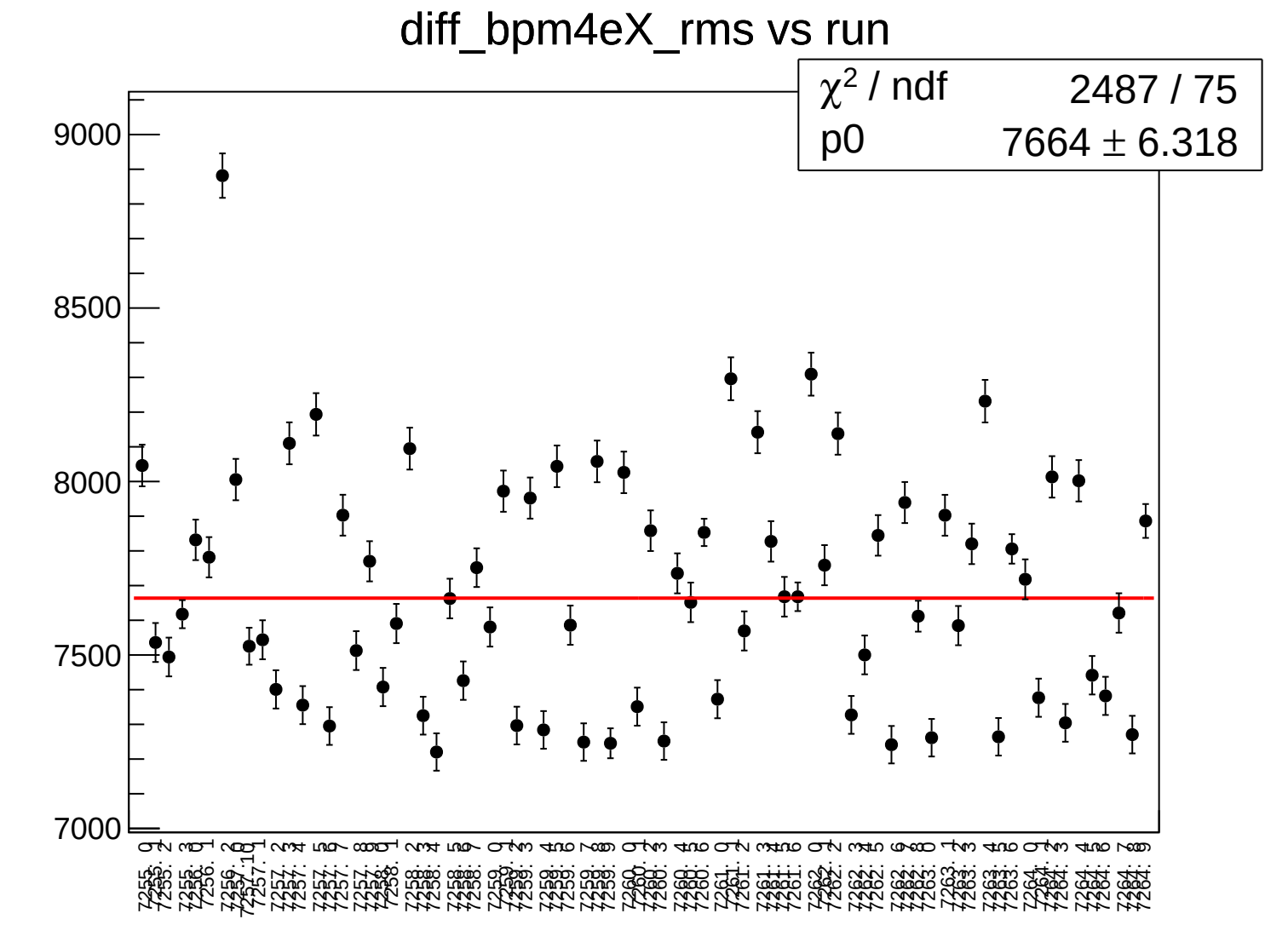

diff_bpm4aY_mean vs run
χ^2 / ndf 91.2 / 75
p0 2.711 ± 8.452
pull
Entries 76
Mean 205
Std Dev 146

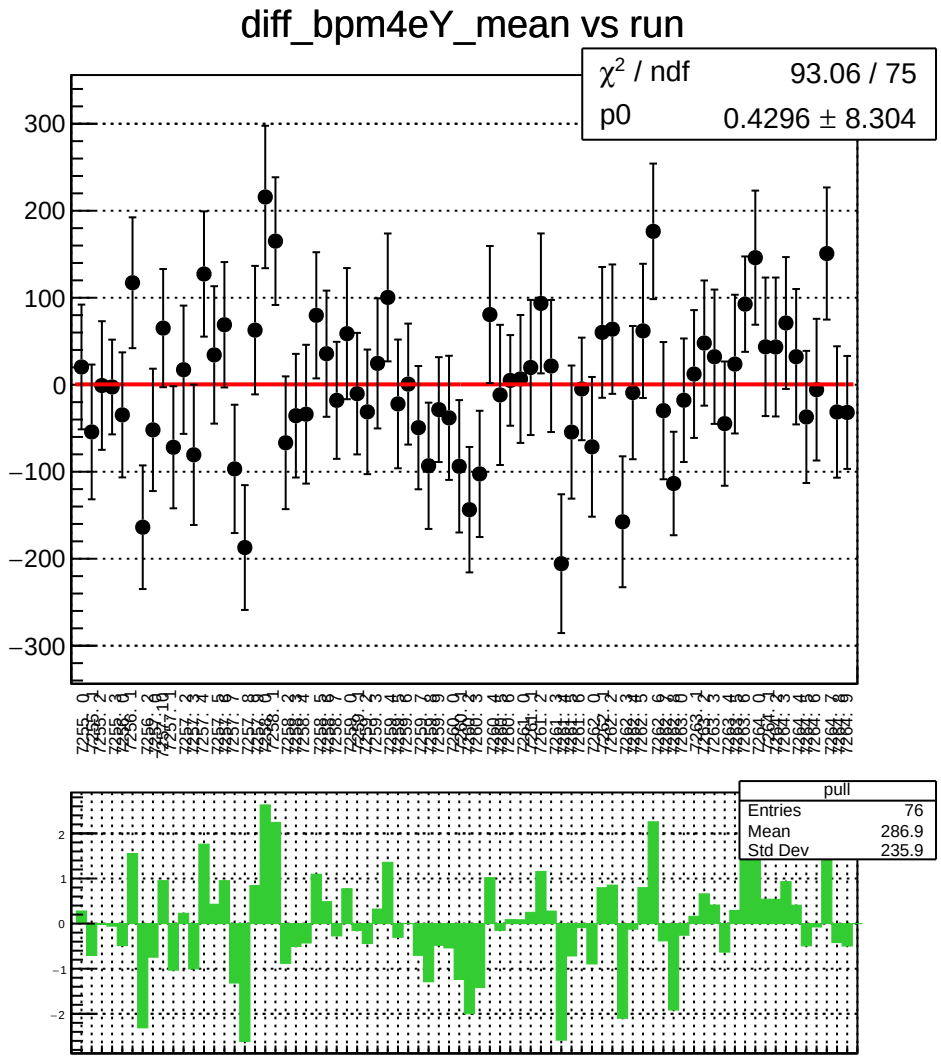

pull1D
Entries 76
Mean 0.0127
Std Dev 1.095

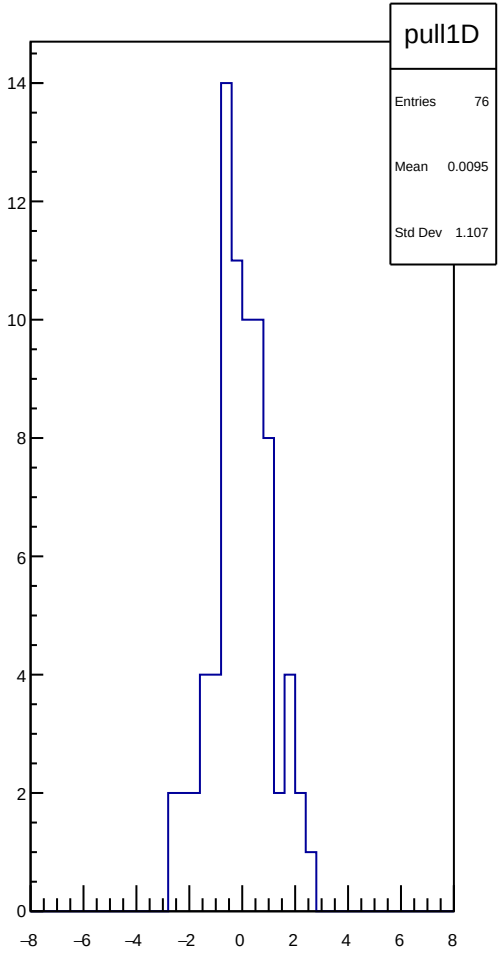

diff_bpm4aY_rms vs run
χ² / ndf 2873 / 75
p0 7248 ± 5.977
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

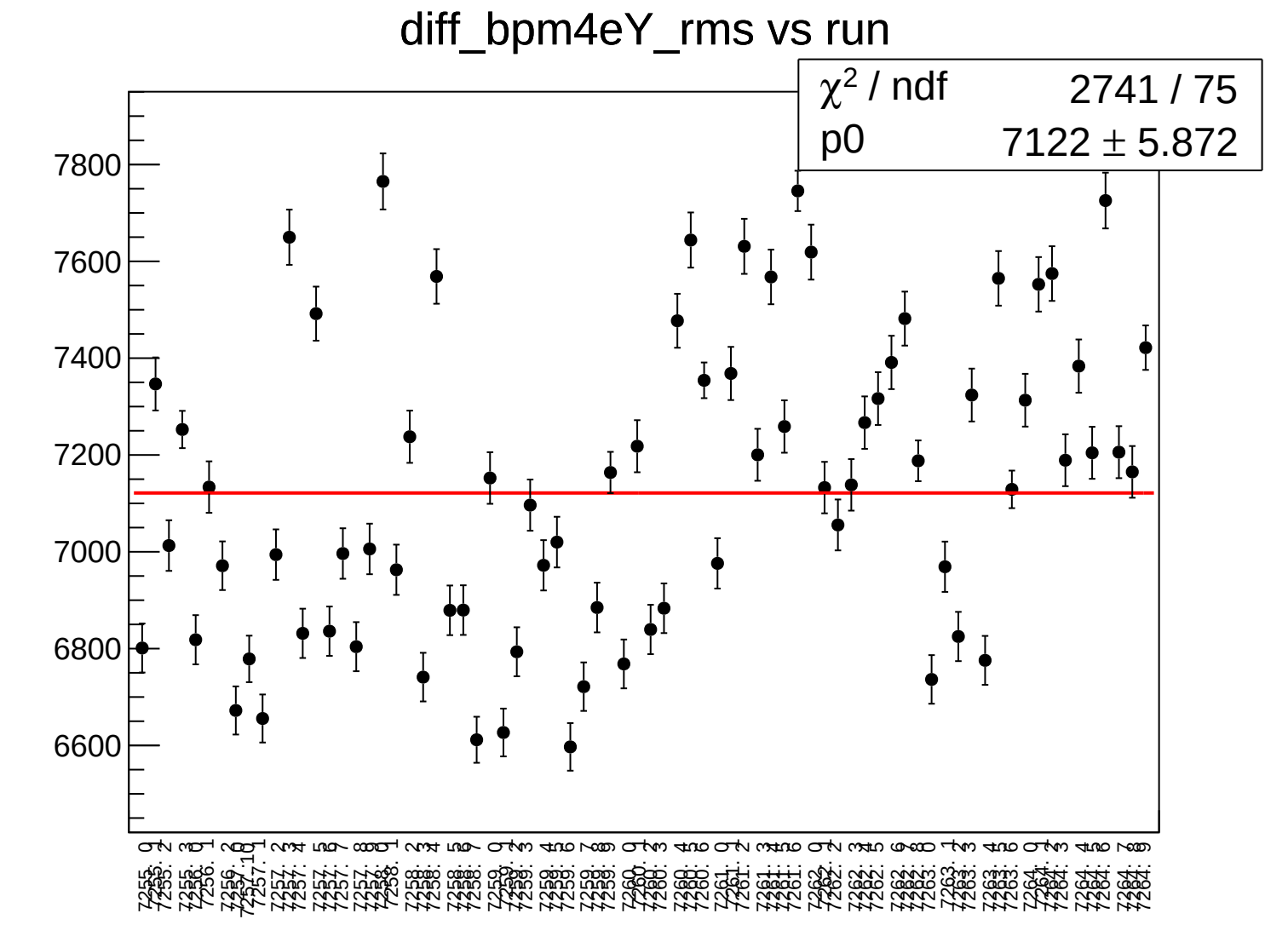

diff_bpm4eX_mean vs run
χ^2 / ndf 74.21 / 75
p0 −15.9 ± 8.936
pull
Entries 76
Mean −161.2
Std Dev 190.7

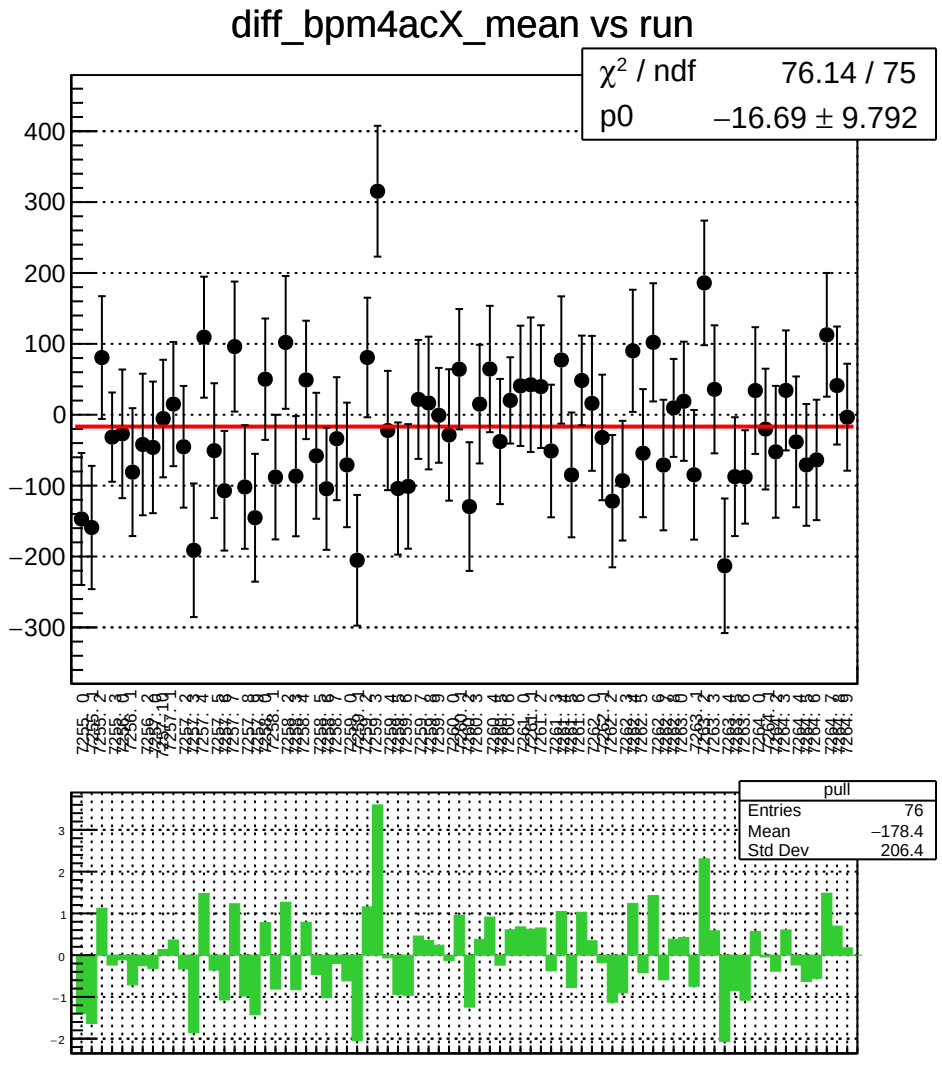

pull1D
Entries 76
Mean −0.0165
Std Dev 0.988

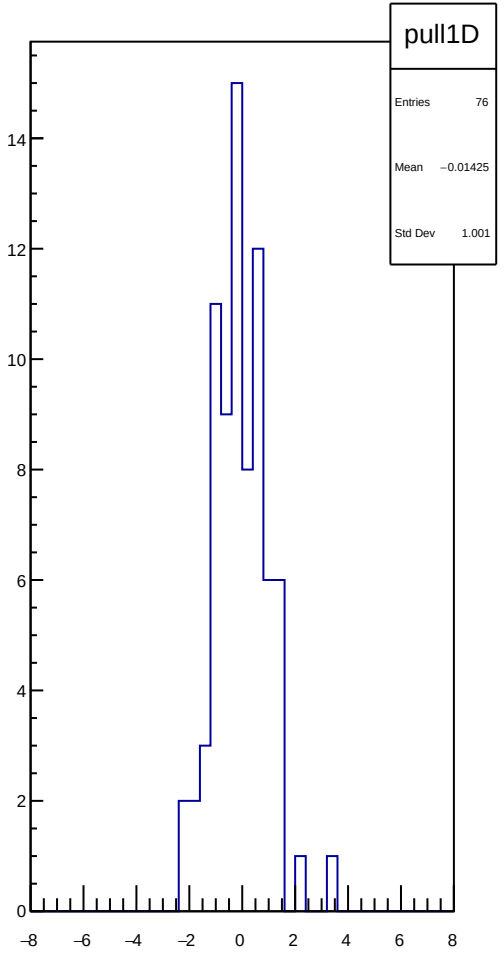

diff_bpm4eX_rms vs run
χ² / ndf 2487 / 75
p0 7664 ± 6.318
9000
8500
8000
7500
7000

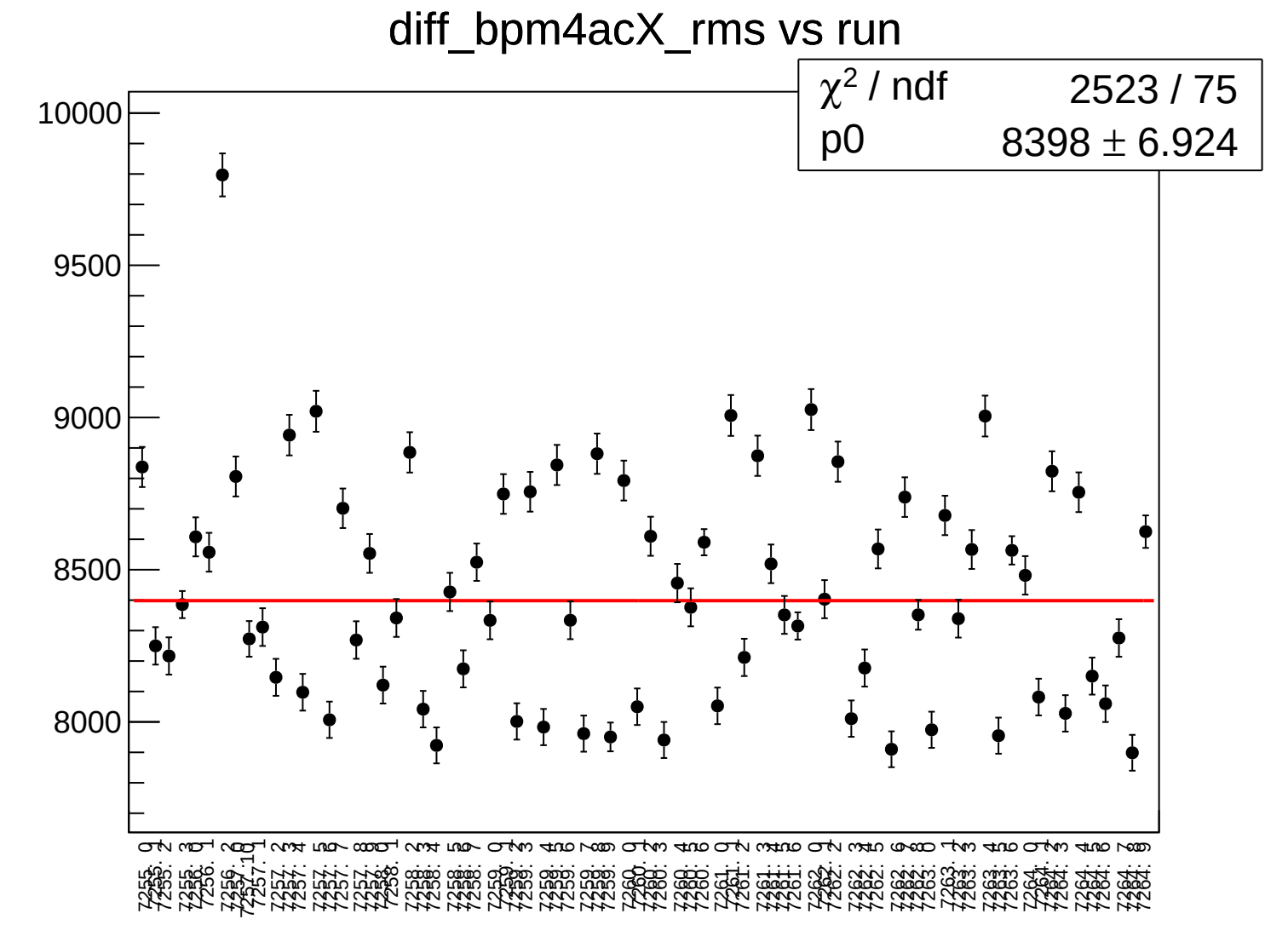

diff_bpm4eY_mean vs run
χ^2 / ndf 93.06 / 75
p0 0.4296 ± 8.304
pull
Entries 76
Mean 286.9
Std Dev 235.9

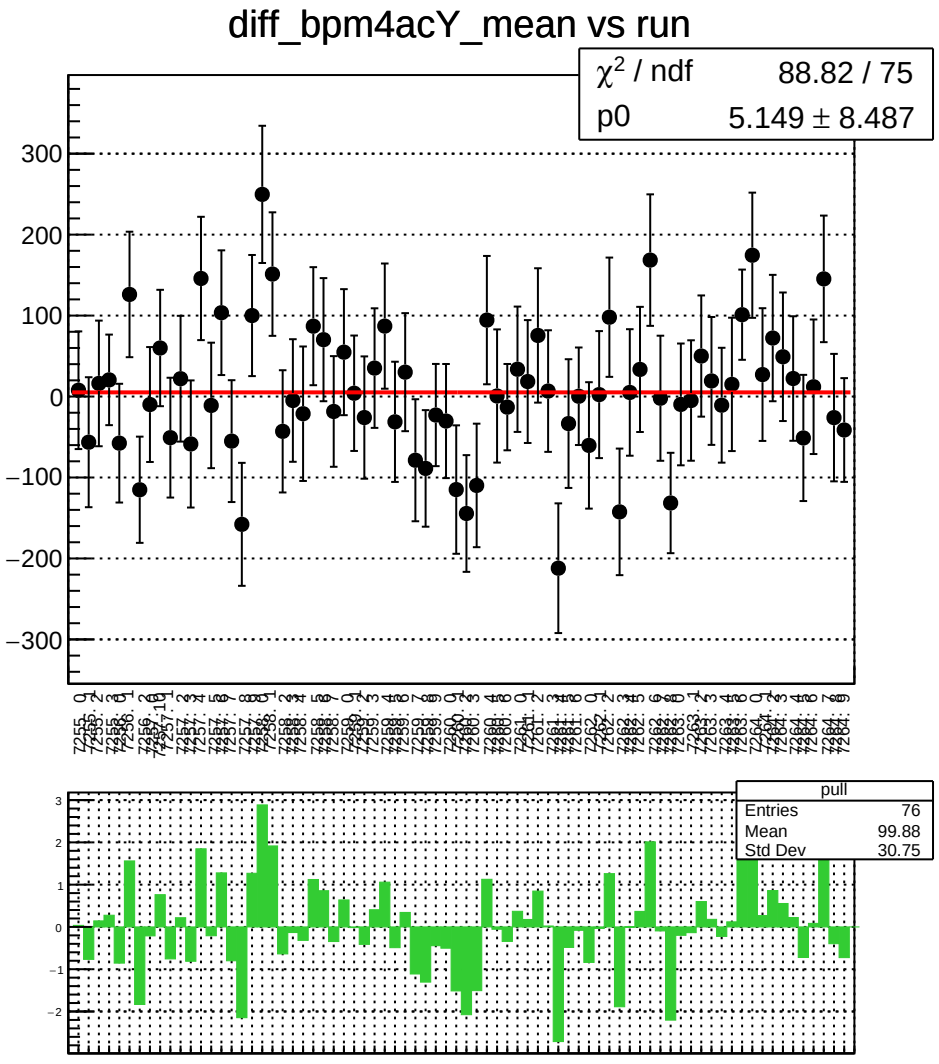

pull1D
Entries 76
Mean 0.0095
Std Dev 1.107

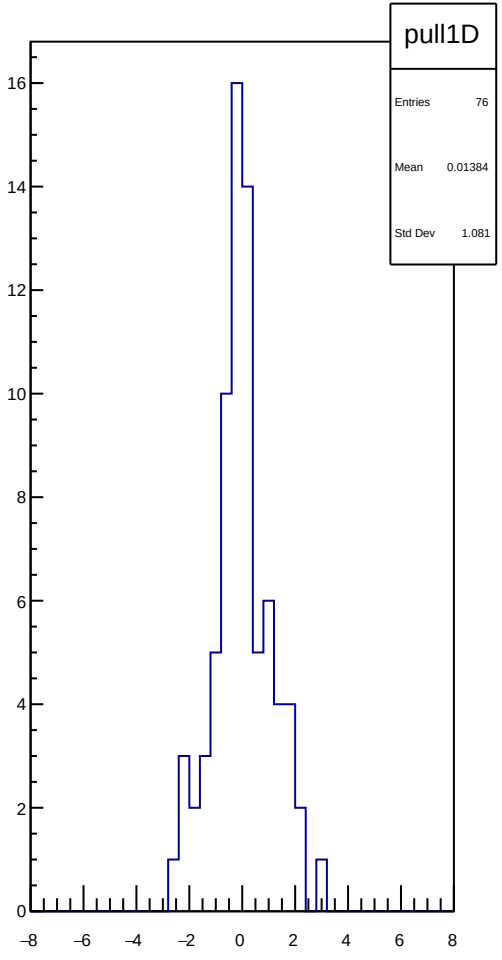

diff_bpm4eY_rms vs run
χ^2 / ndf 2741 / 75
p0 7122 ± 5.872
7800
7600
7400
7200
7000
6800
6600

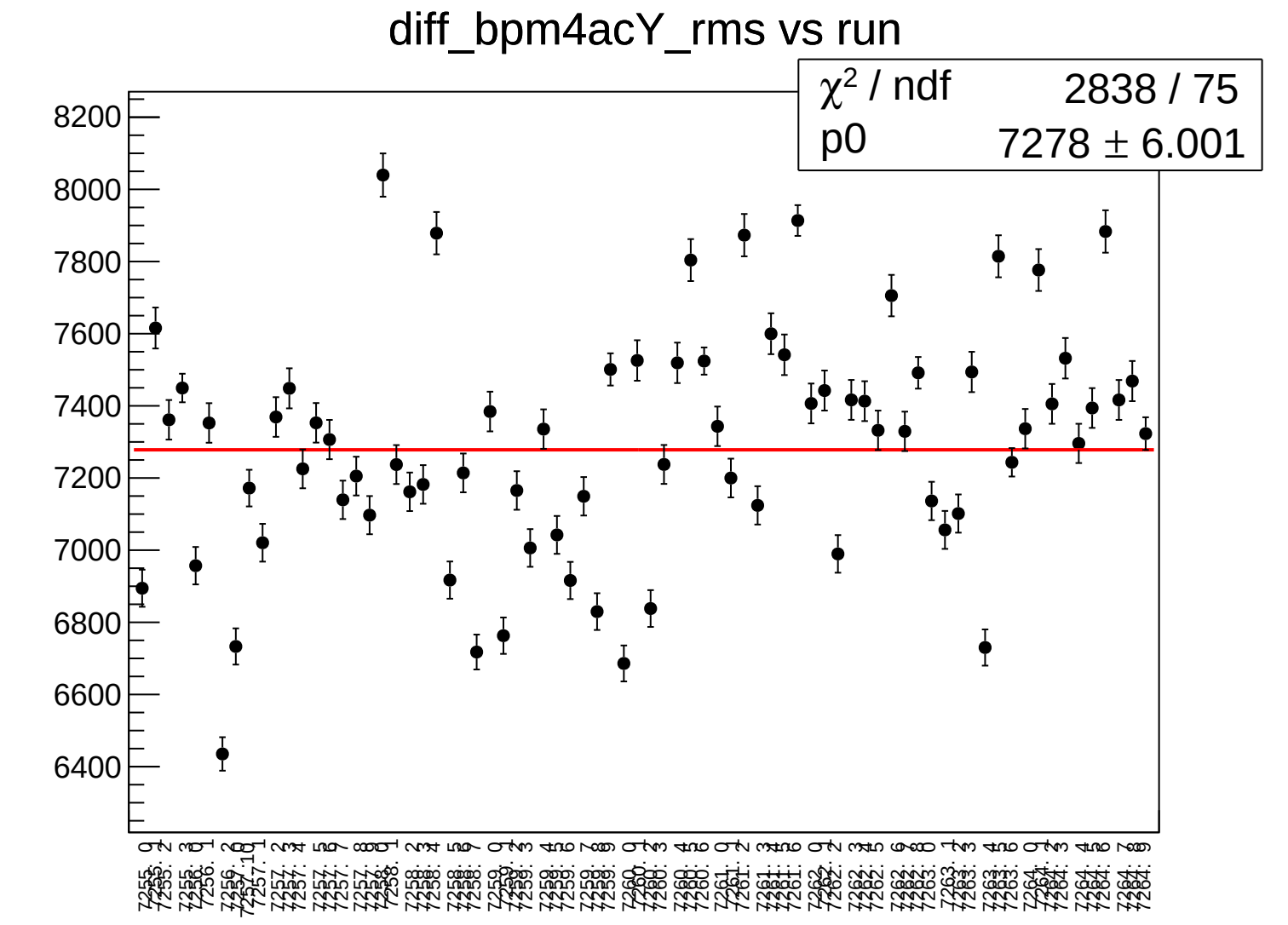

diff_bpm4acX_mean vs run
χ² / ndf 76.14 / 75
p0 −16.69 ± 9.792
pull
Entries 76
Mean −178.4
Std Dev 206.4

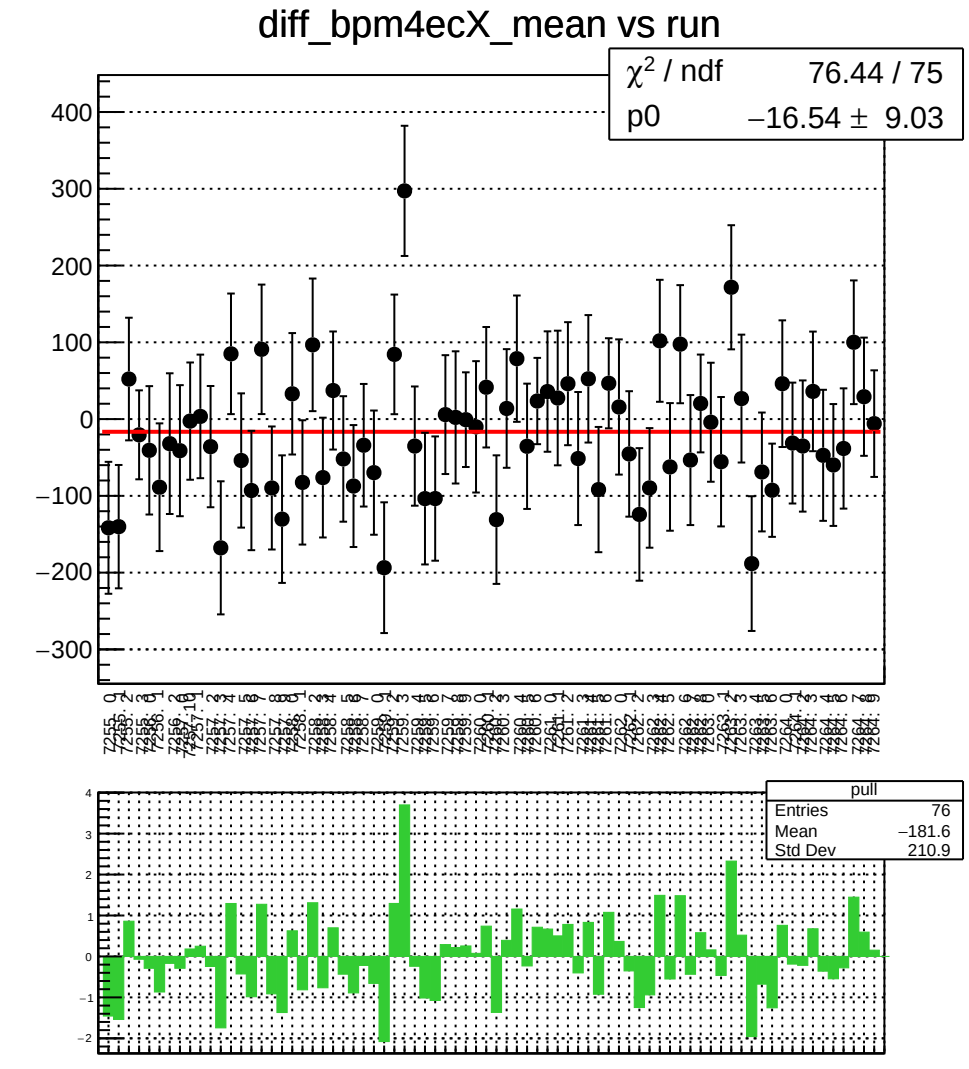

pull1D
Entries 76
Mean −0.01425
Std Dev 1.001

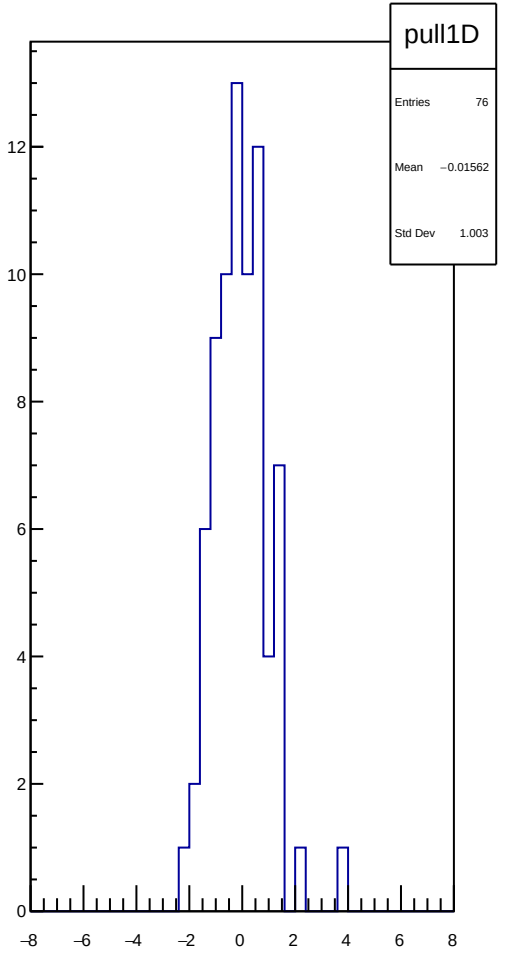

diff_bpm4acX_rms vs run
χ² / ndf 2523 / 75
p0 8398 ± 6.924
10000
9500
9000
8500
8000

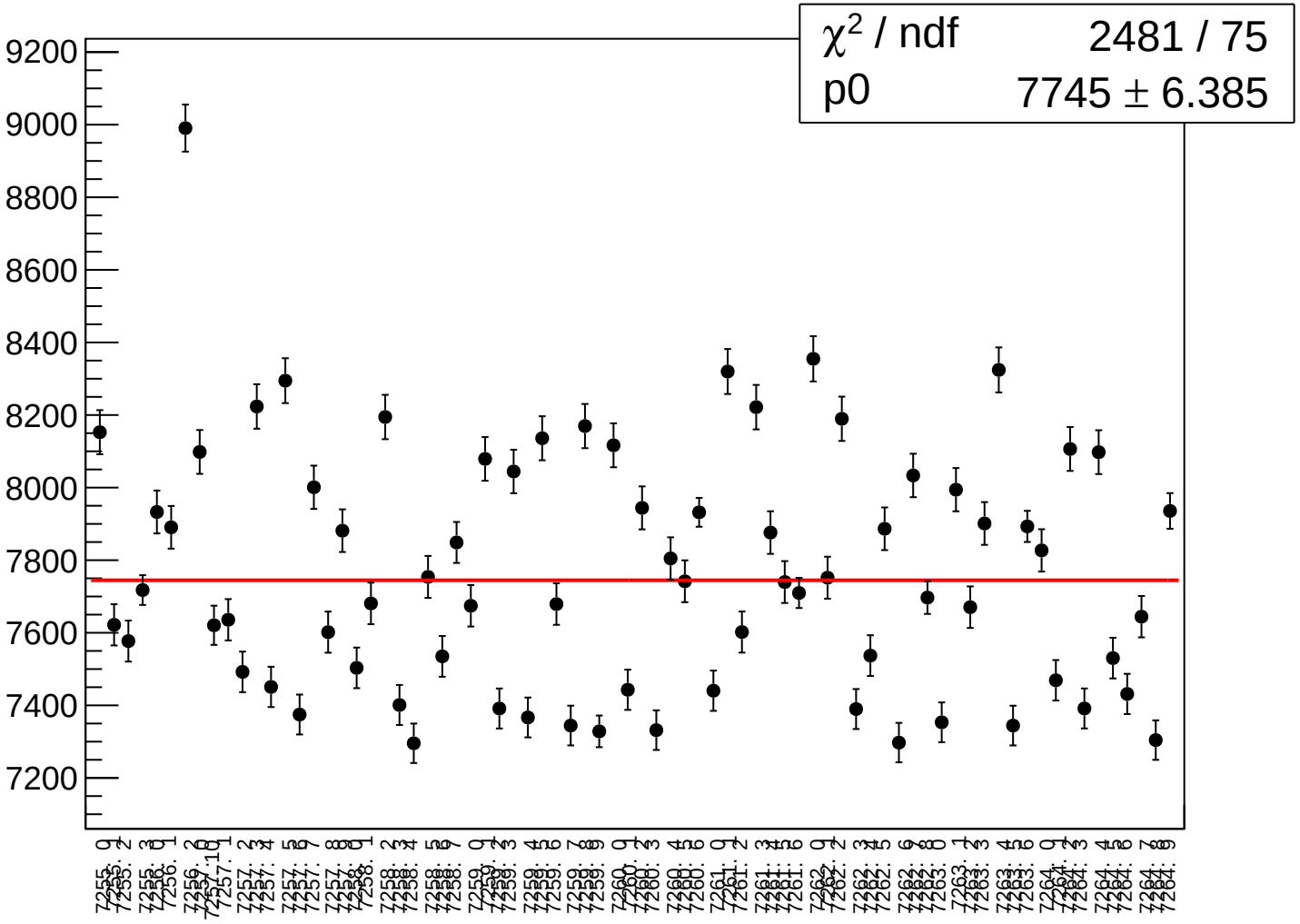

diff_bpm4acY_mean vs run
χ² / ndf 88.82 / 75
p0 5.149 ± 8.487
pull
Entries 76
Mean 99.88
Std Dev 30.75

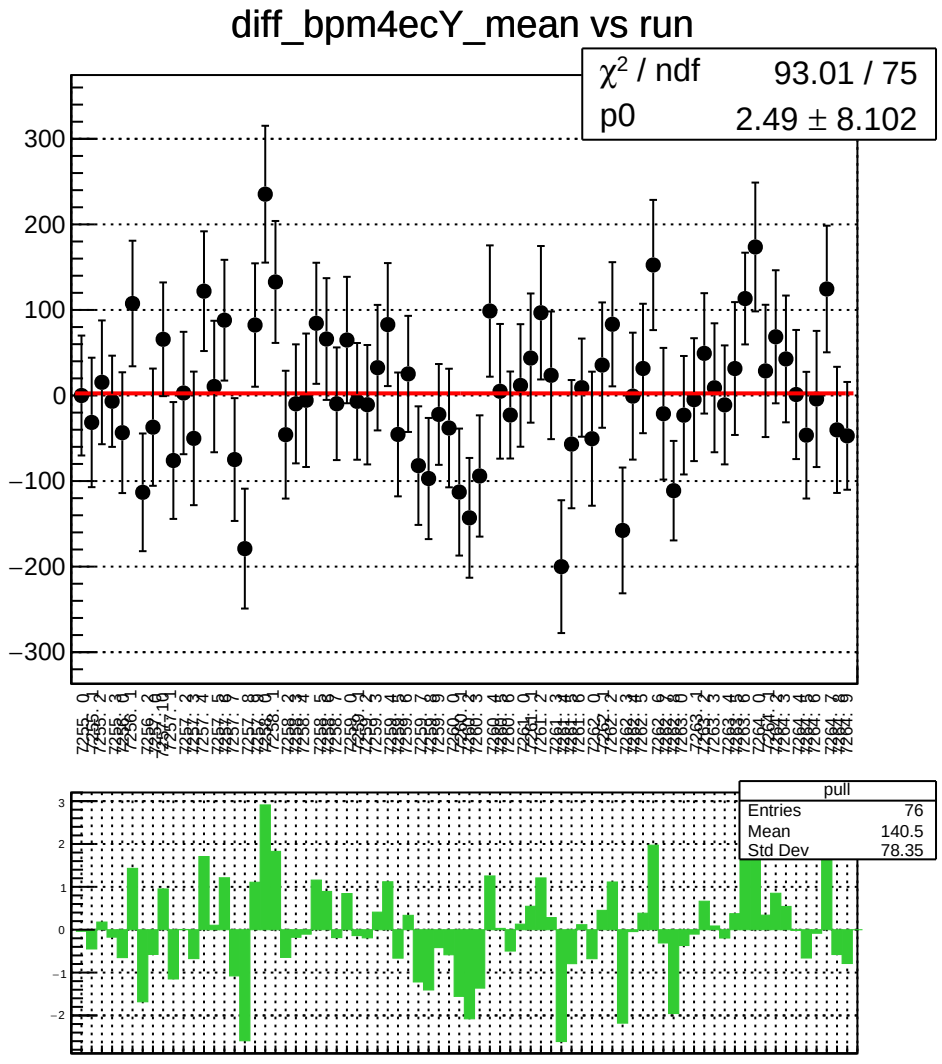

pull1D
Entries 76
Mean 0.01384
Std Dev 1.081

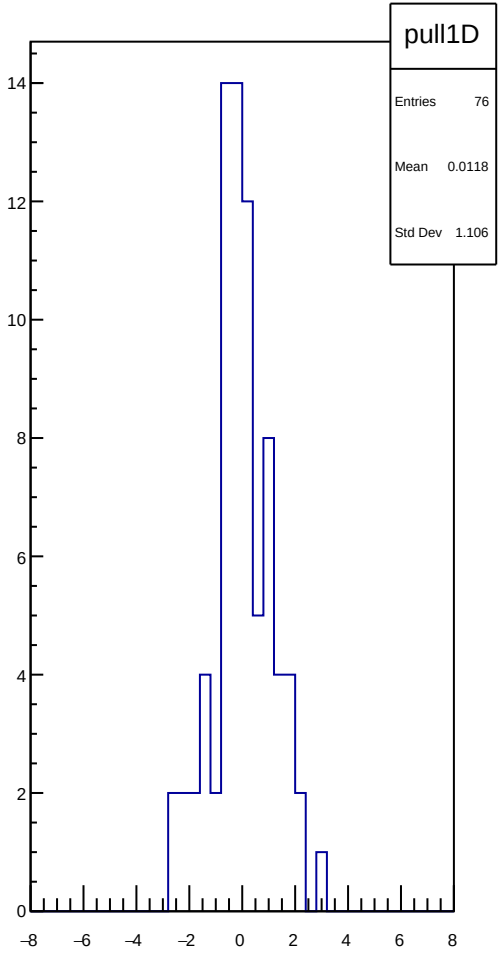

diff_bpm4acY_rms vs run
χ² / ndf 2838 / 75
p0 7278 ± 6.001
8200
8000
7800
7600
7400
7200
7000
6800
6600
6400

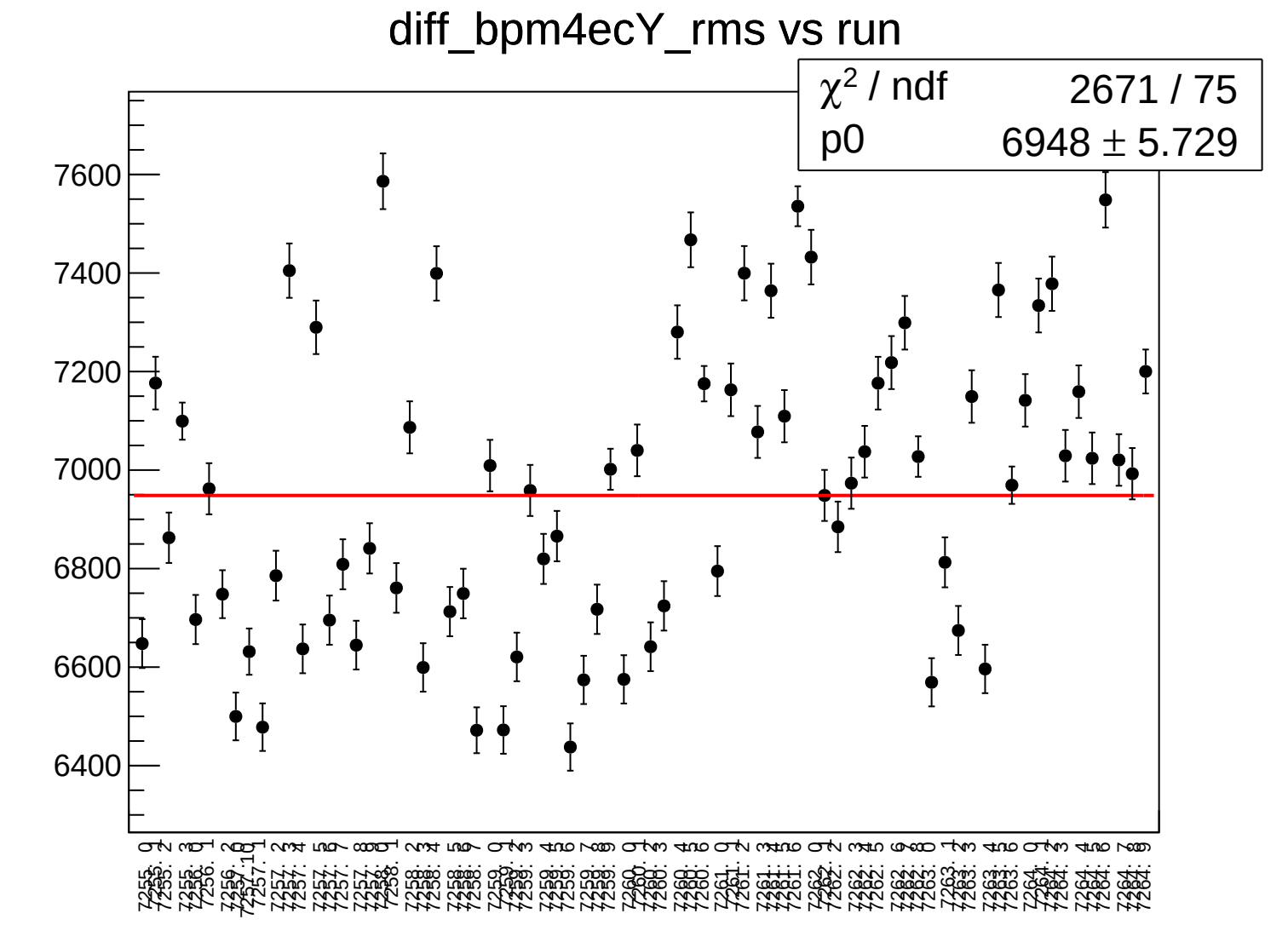

diff_bpm4ecX_mean vs run
χ² / ndf 76.44 / 75
p0 −16.54 ± 9.03
pull
Entries 76
Mean −181.6
Std Dev 210.9

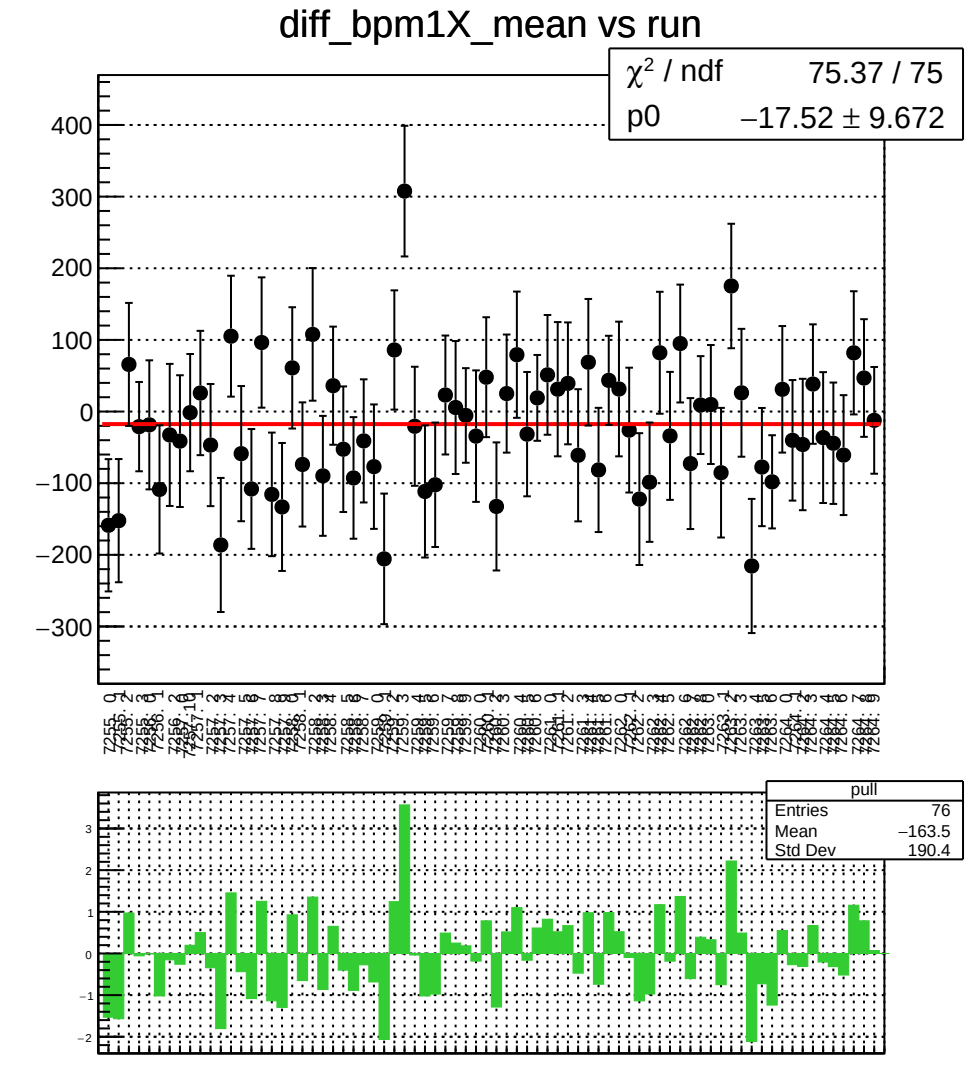

pull1D
Entries 76
Mean −0.01562
Std Dev 1.003

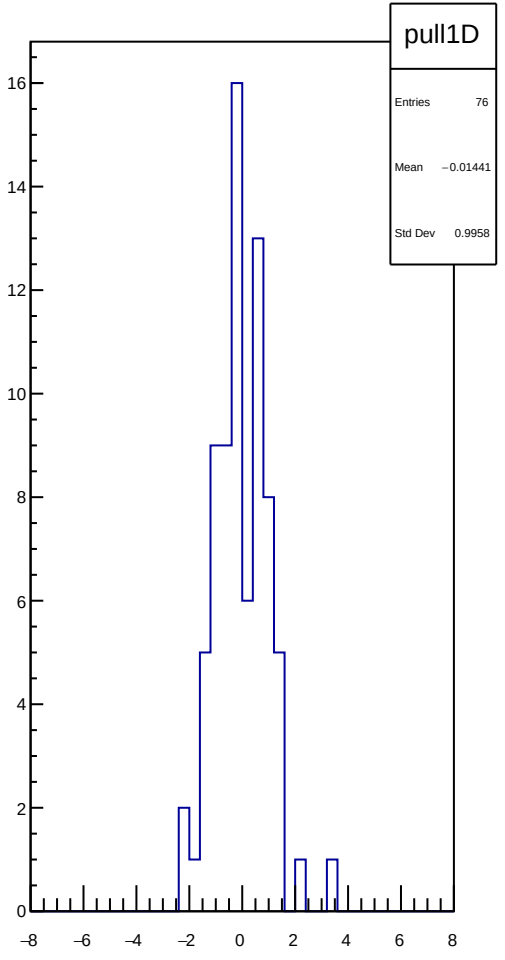

diff_bpm4ecX_rms vs run
χ² / ndf 2481 / 75
p0 7745 ± 6.385
9200
9000
8800
8600
8400
8200
8000
7800
7600
7400
7200

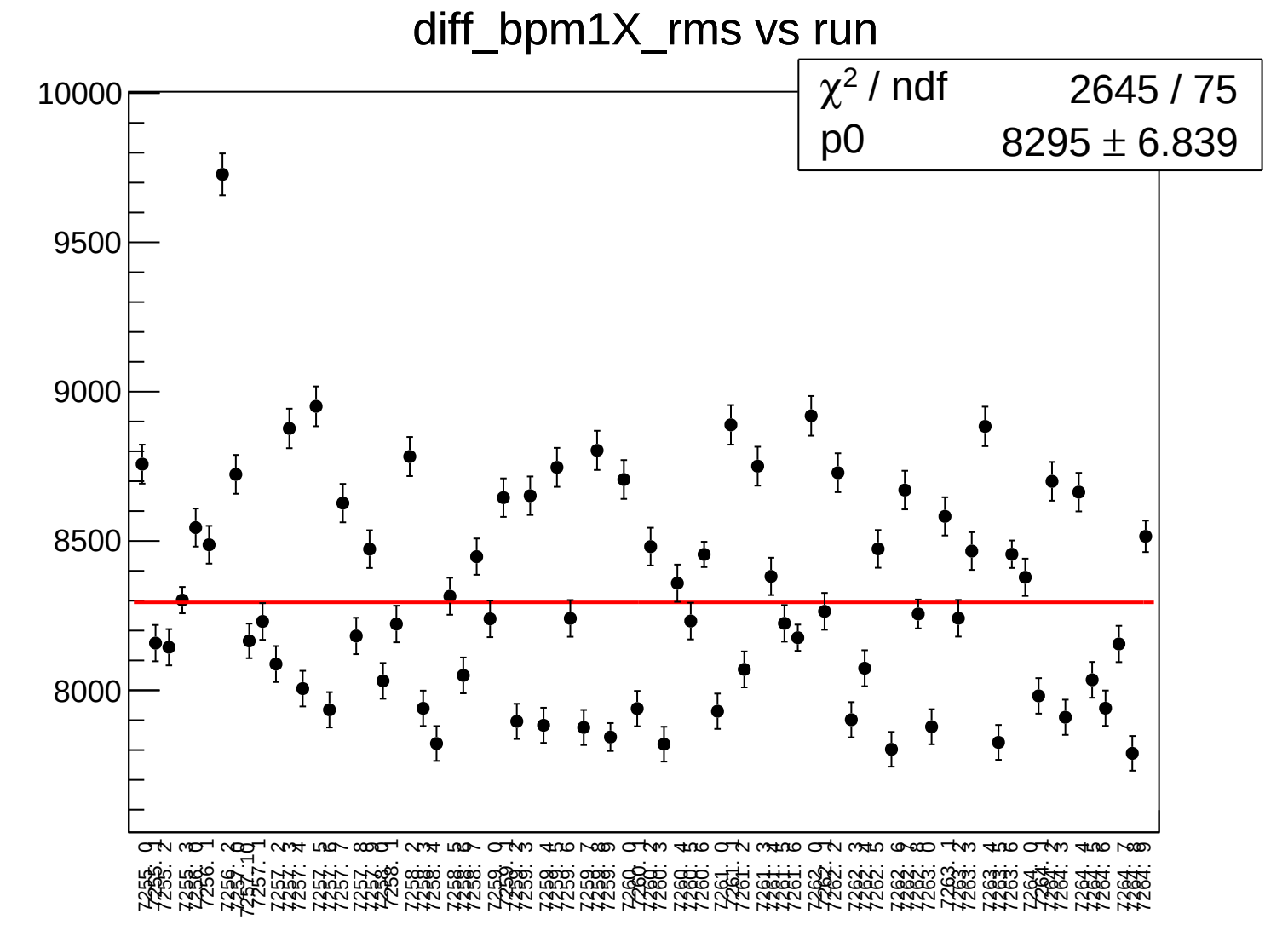

diff_bpm4ecY_mean vs run
χ² / ndf 93.01 / 75
p0 2.49 ± 8.102
pull
Entries 76
Mean 140.5
Std Dev 78.35

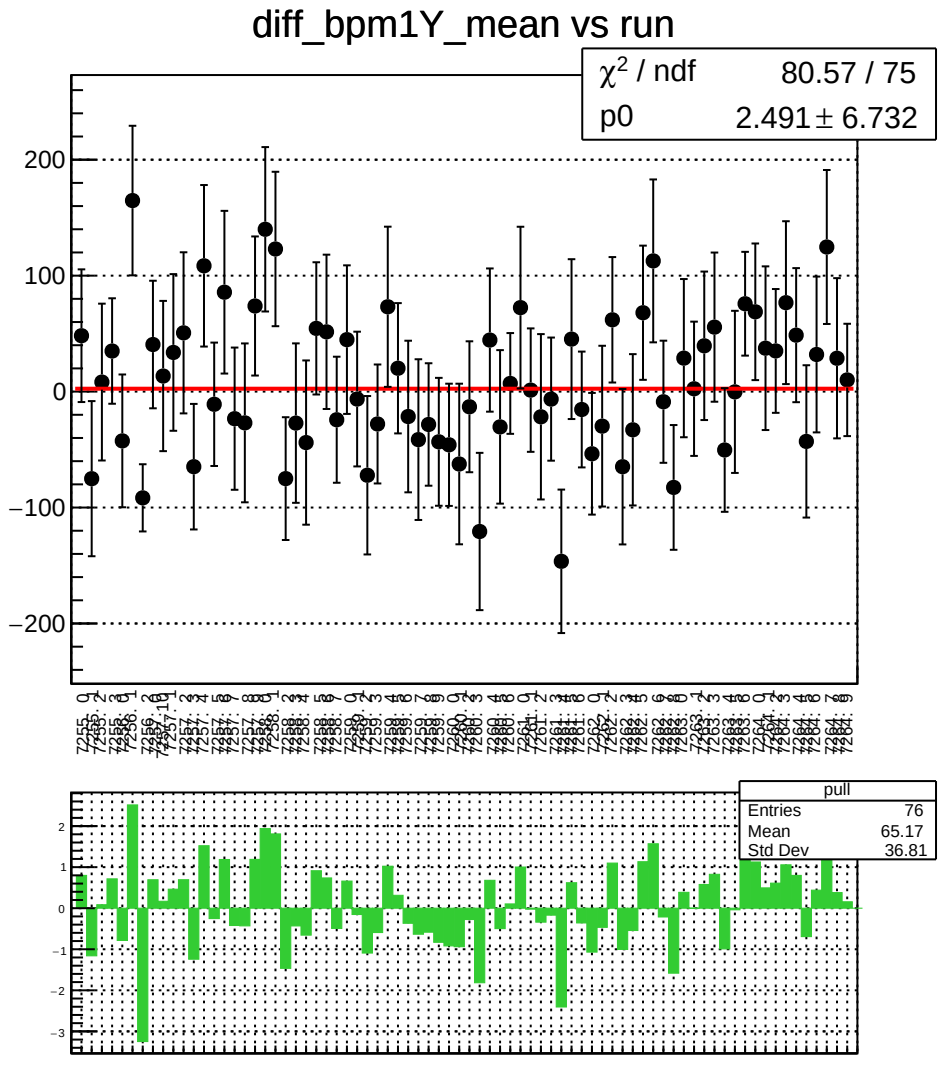

pull1D
Entries 76
Mean 0.0118
Std Dev 1.106

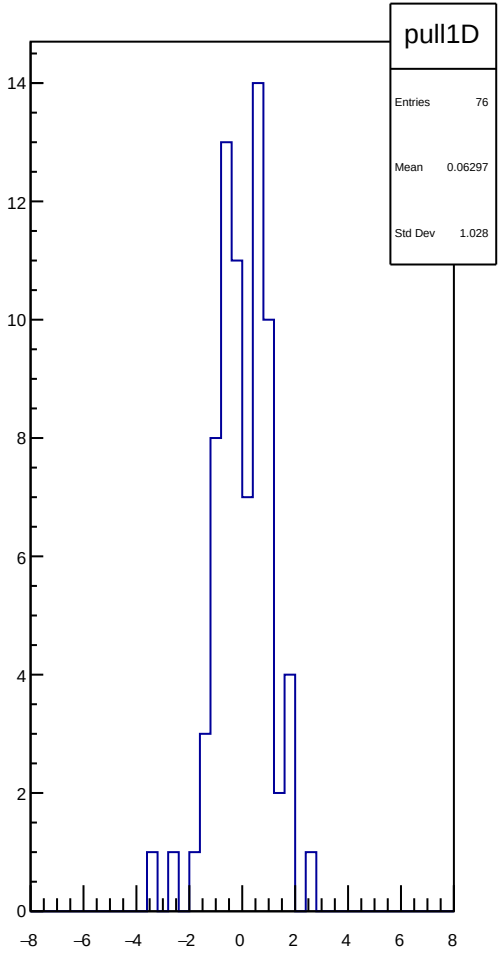

diff_bpm4ecY_rms vs run
χ² / ndf 2671 / 75
p0 6948 ± 5.729
7600
7400
7200
7000
6800
6600
6400

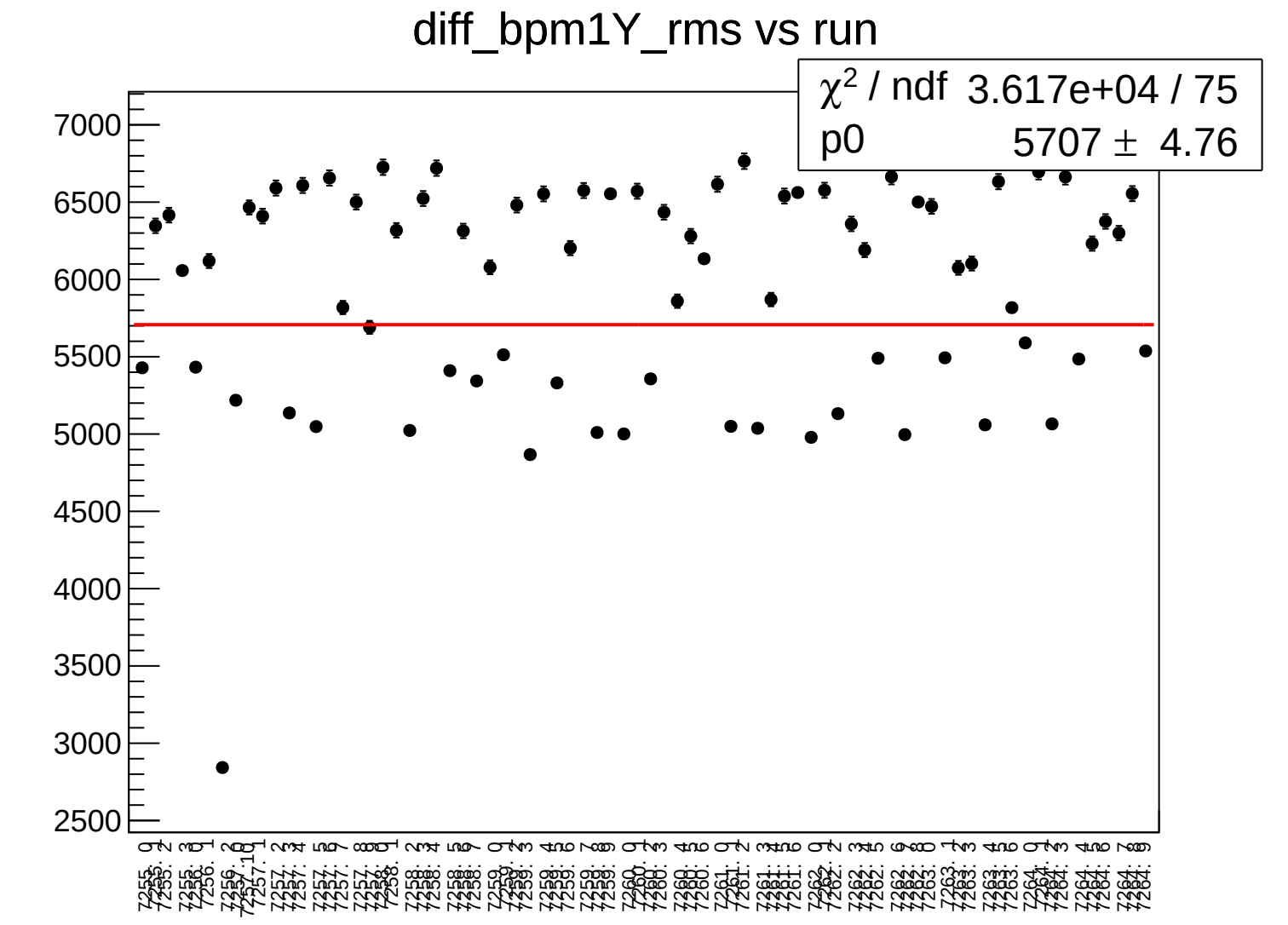

diff_bpm1X_mean vs run
χ² / ndf 75.37 / 75
p0 −17.52 ± 9.672
pull
Entries 76
Mean −163.5
Std Dev 190.4

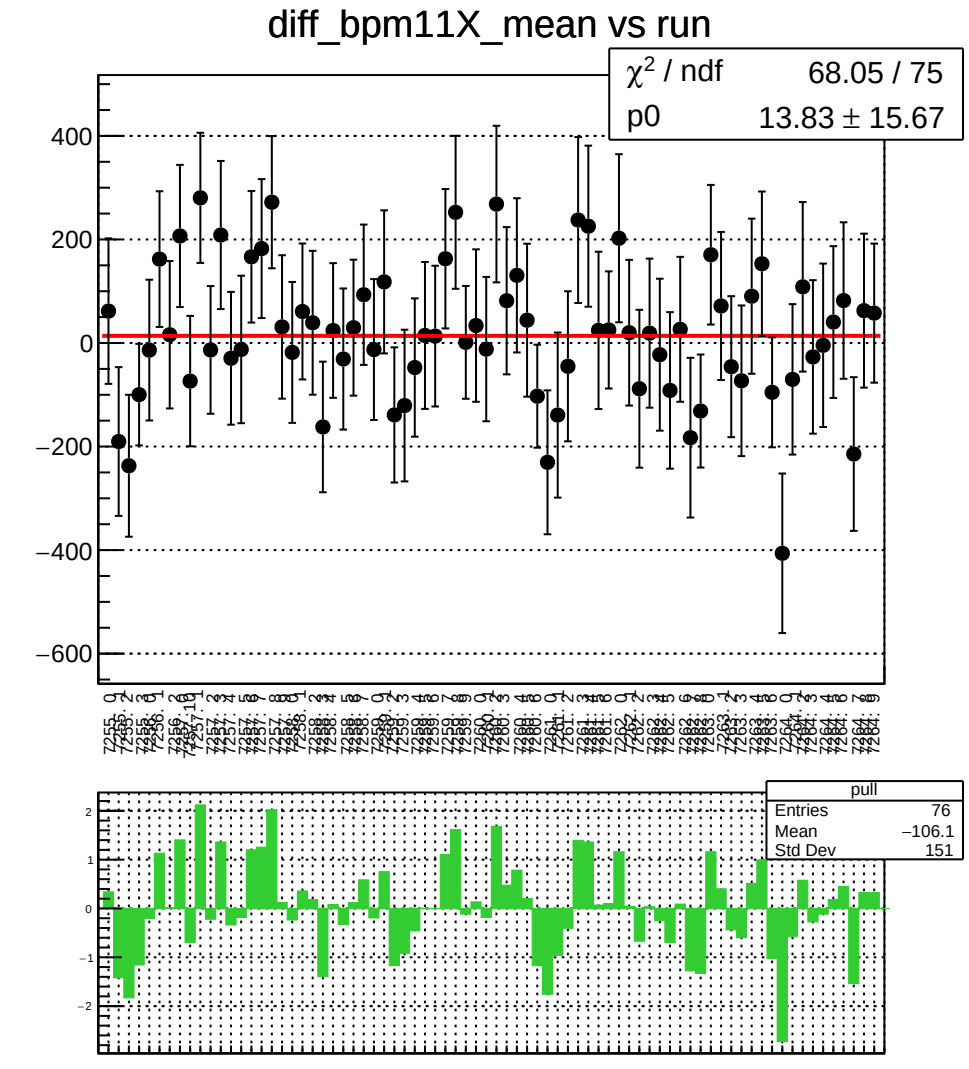

pull1D
Entries 76
Mean −0.01441
Std Dev 0.9958

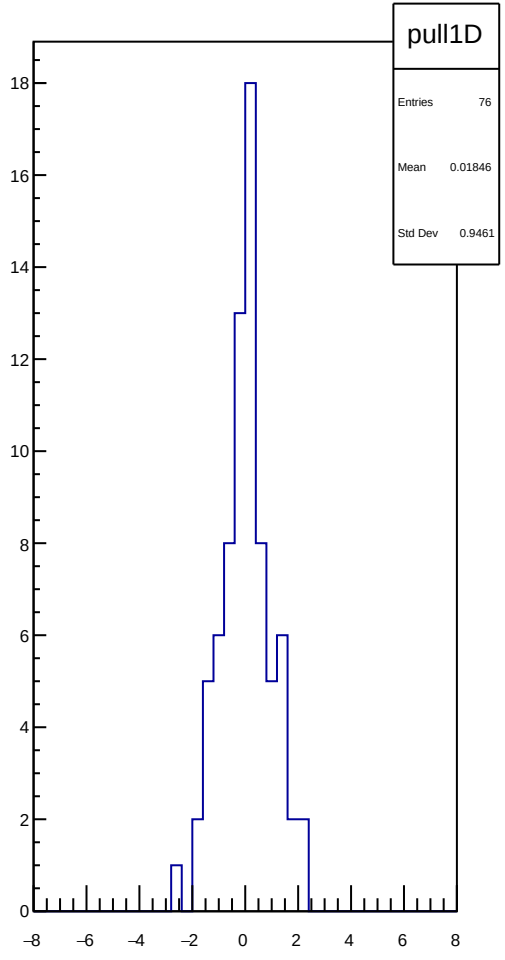

diff_bpm1X_rms vs run
χ² / ndf 2645 / 75
p0 8295 ± 6.839
10000
9500
9000
8500
8000

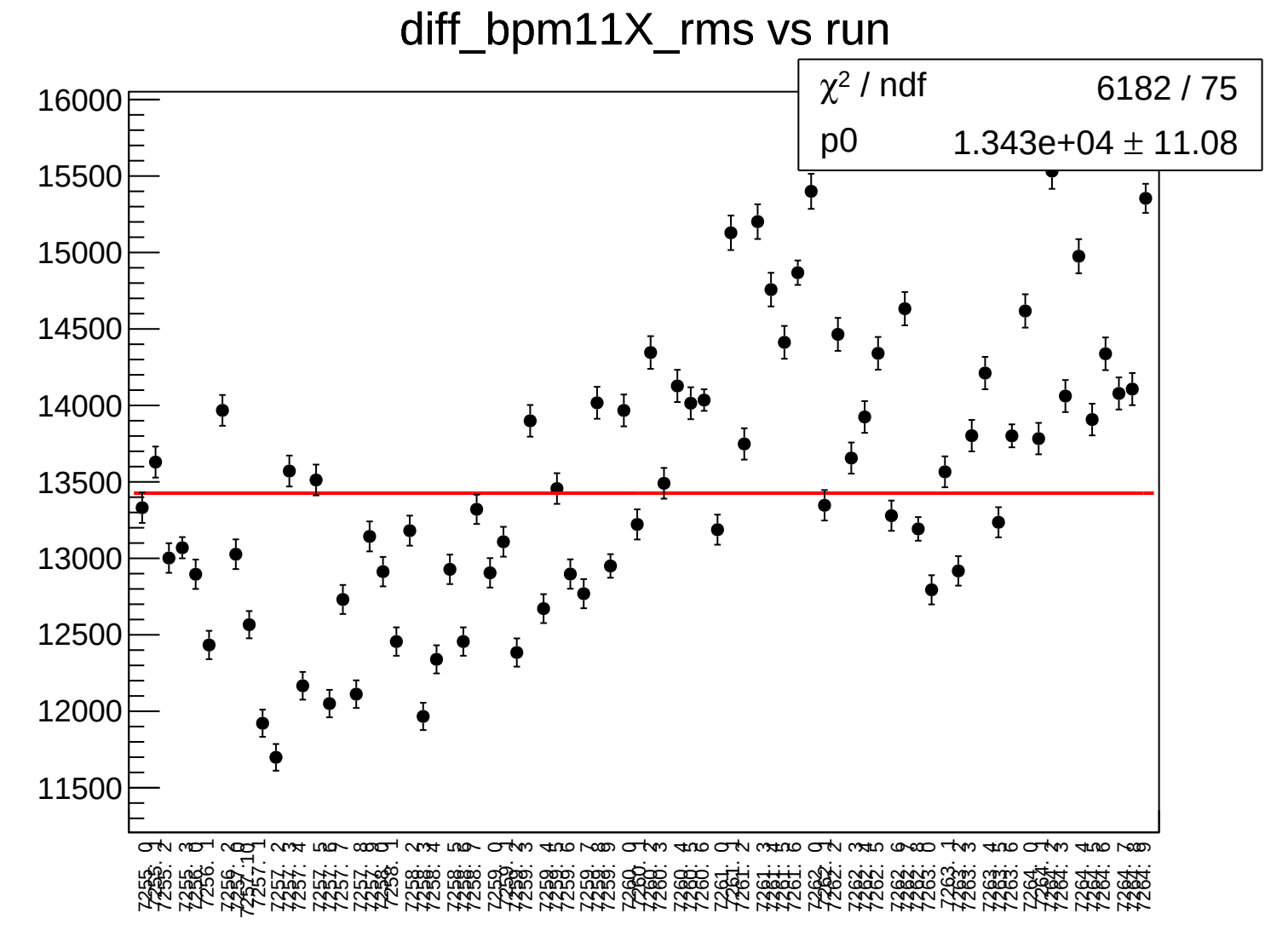

diff_bpm1Y_mean vs run
χ² / ndf 80.57 / 75
p0 2.491 ± 6.732
200
100
0
−100
−200
pull
Entries 76
Mean 65.17
Std Dev 36.81
2
1
0
−1
−2
−3

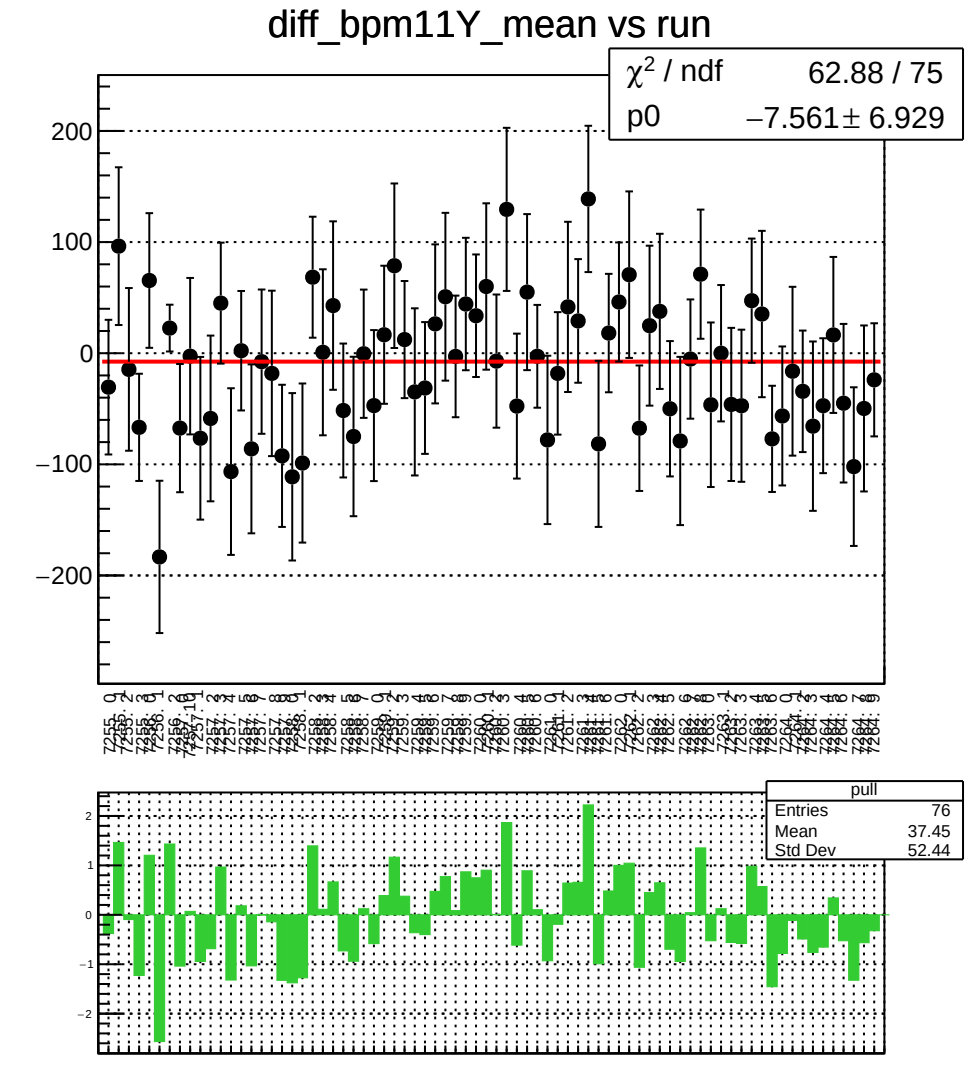

pull1D
Entries 76
Mean 0.06297
Std Dev 1.028
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

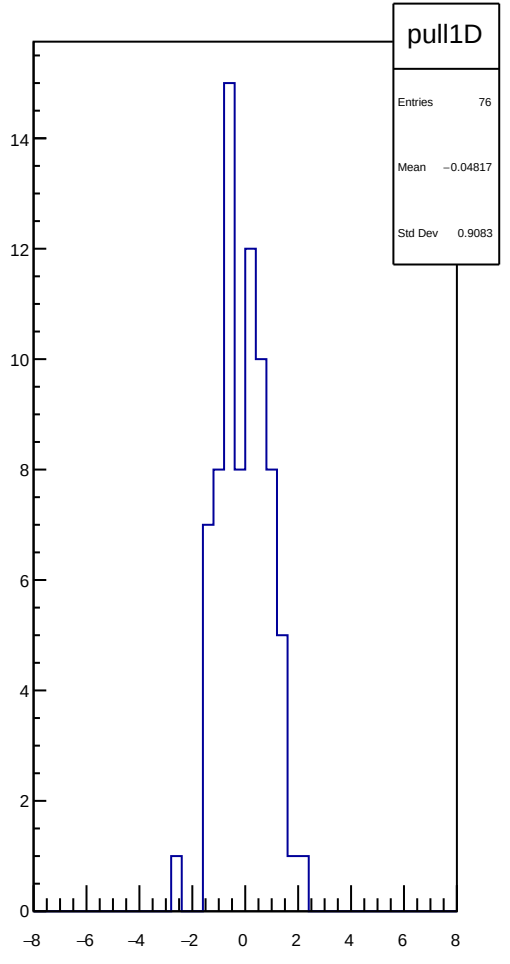

diff_bpm1Y_rms vs run
χ² / ndf 3.617e+04 / 75
p0 5707 ± 4.76
7000
6500
6000
5500
5000
4500
4000
3500
3000
2500

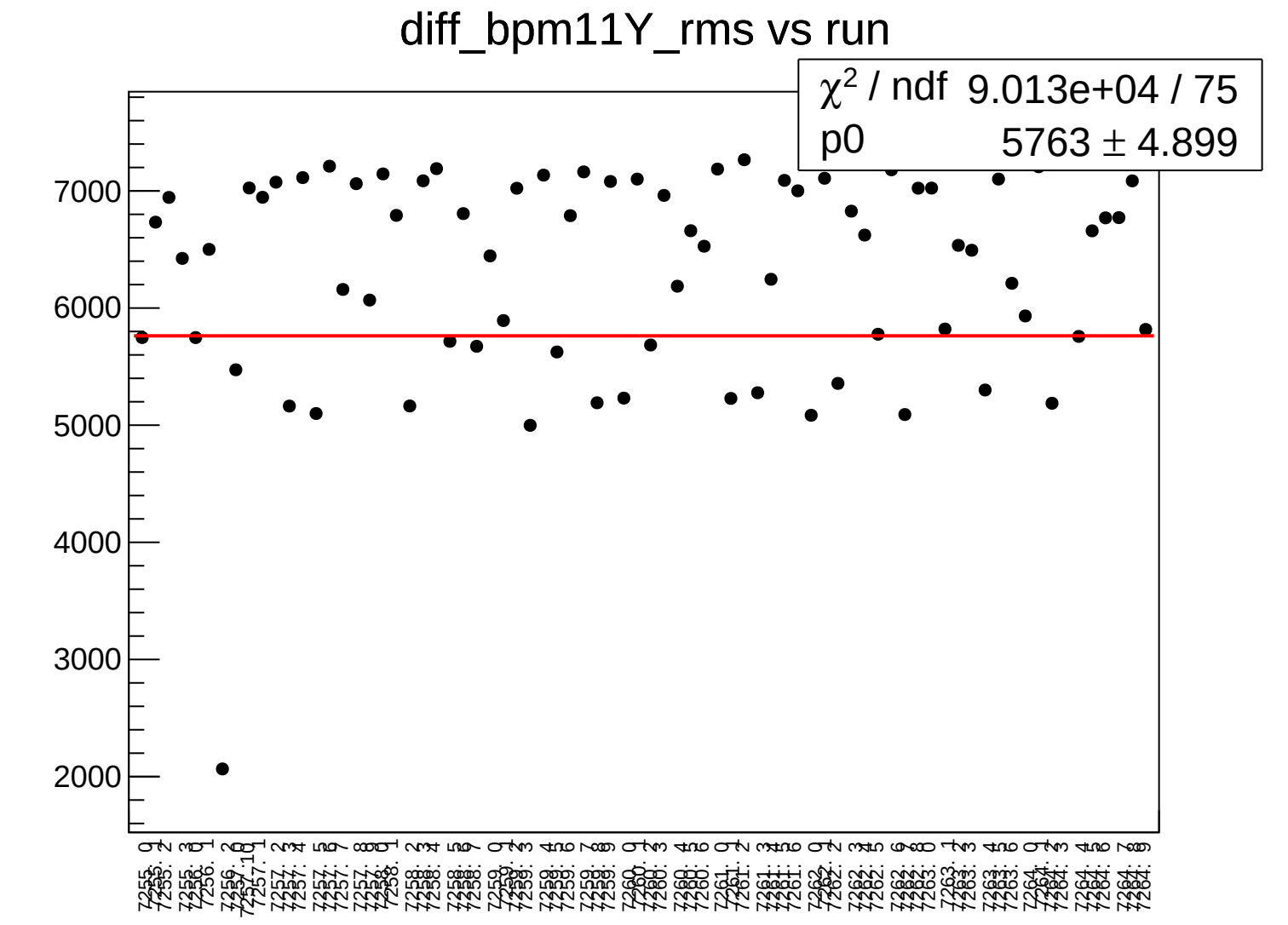

diff_bpm11X_mean vs run
χ^2 / ndf 68.05 / 75
p0 13.83 ± 15.67
pull
Entries 76
Mean −106.1
Std Dev 151

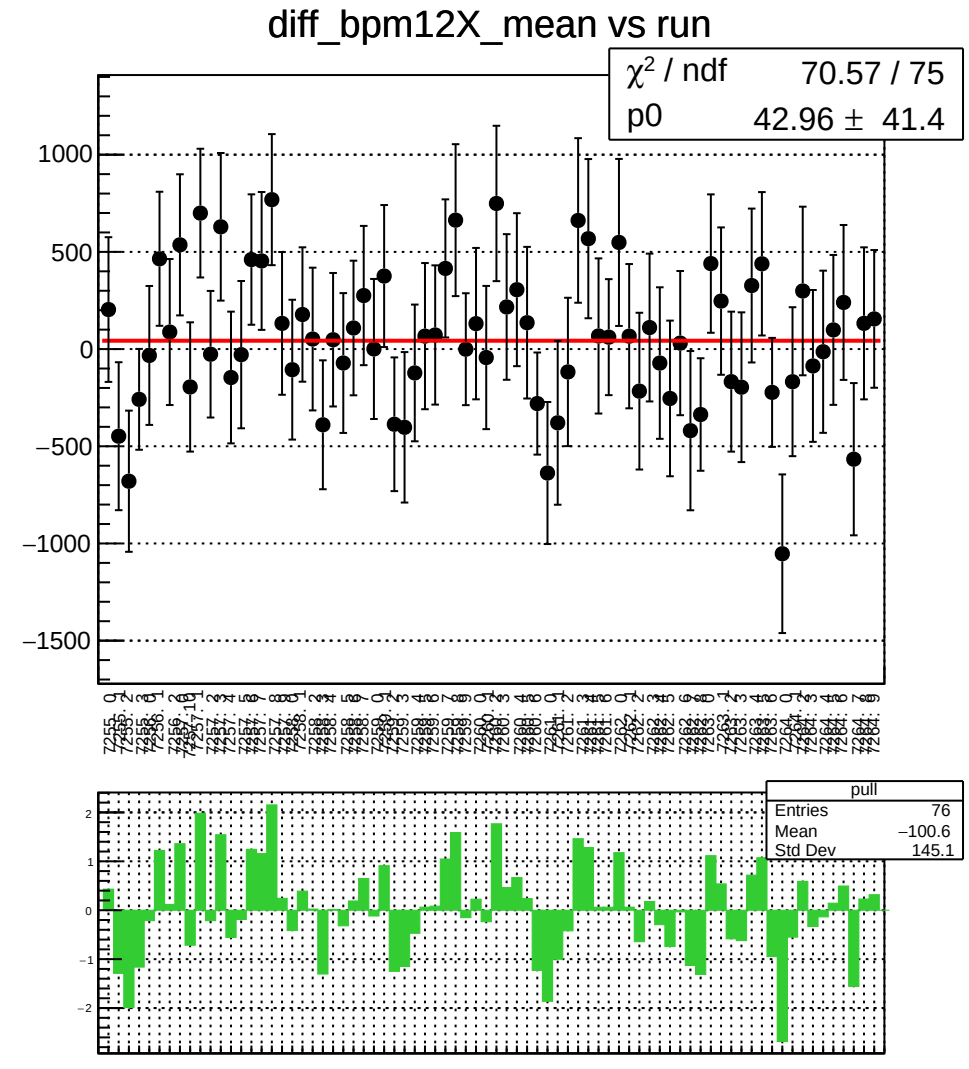

pull1D
Entries 76
Mean 0.01846
Std Dev 0.9461

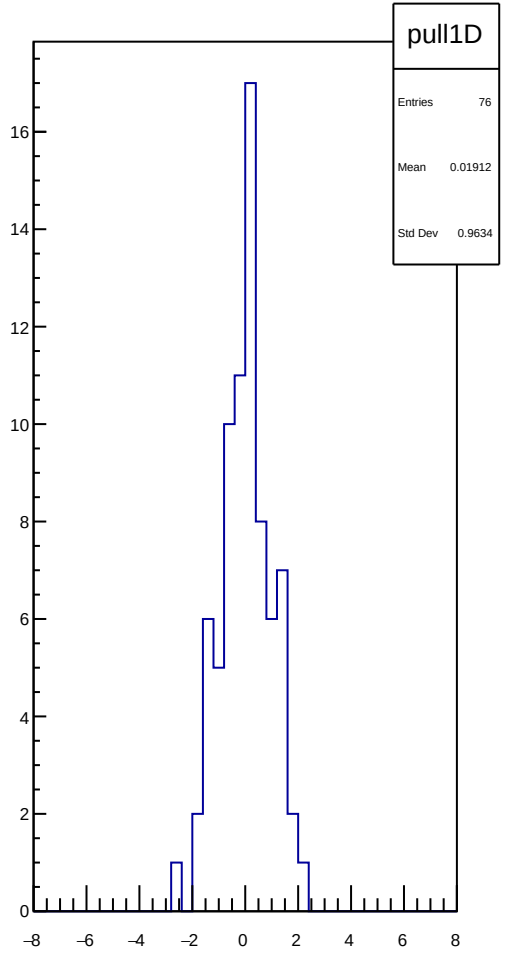

diff_bpm11X_rms vs run
χ² / ndf 6182 / 75
p0 1.343e+04 ± 11.08
16000
15500
15000
14500
14000
13500
13000
12500
12000
11500

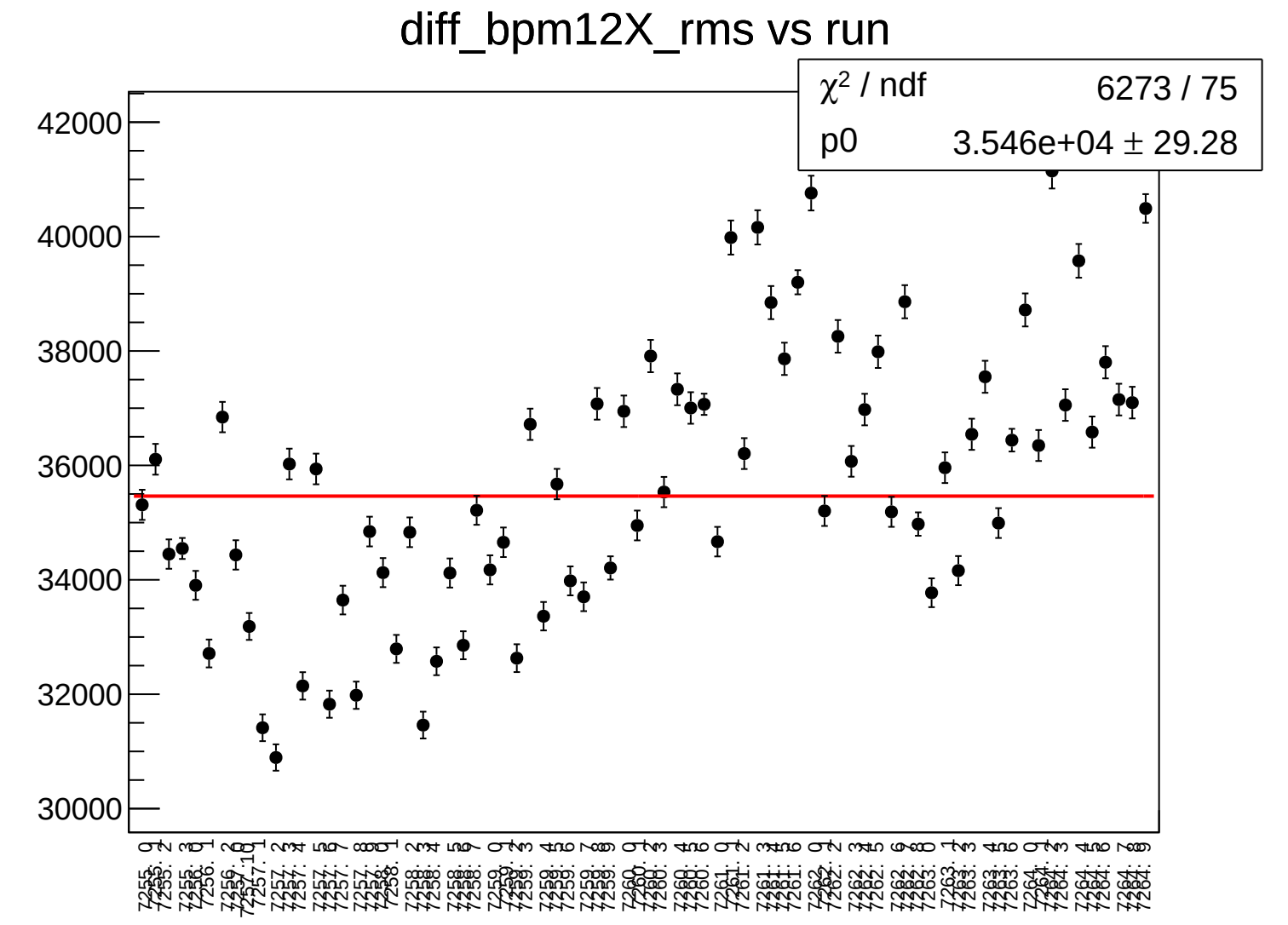

diff_bpm11Y_mean vs run
χ² / ndf 62.88 / 75
p0 −7.561 ± 6.929
200
100
0
−100
−200
pull
Entries 76
Mean 37.45
Std Dev 52.44
2
1
0
−1
−2

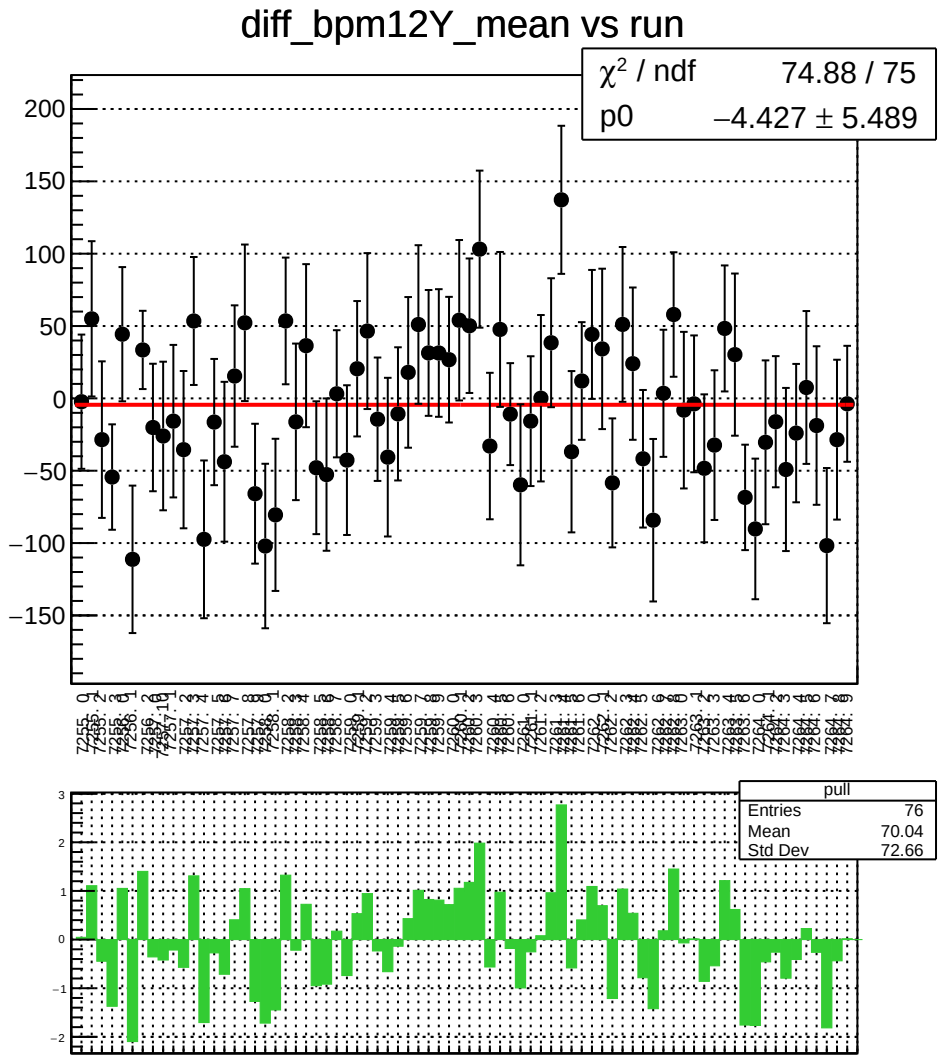

pull1D
Entries 76
Mean −0.04817
Std Dev 0.9083
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

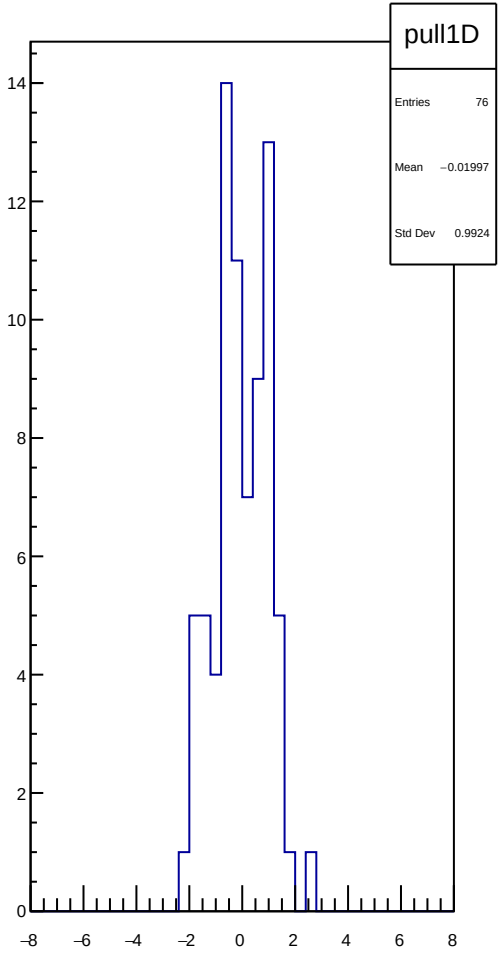

diff_bpm11Y_rms vs run
χ^2 / ndf 9.013e+04 / 75
p0 5763 ± 4.899
7000
6000
5000
4000
3000
2000

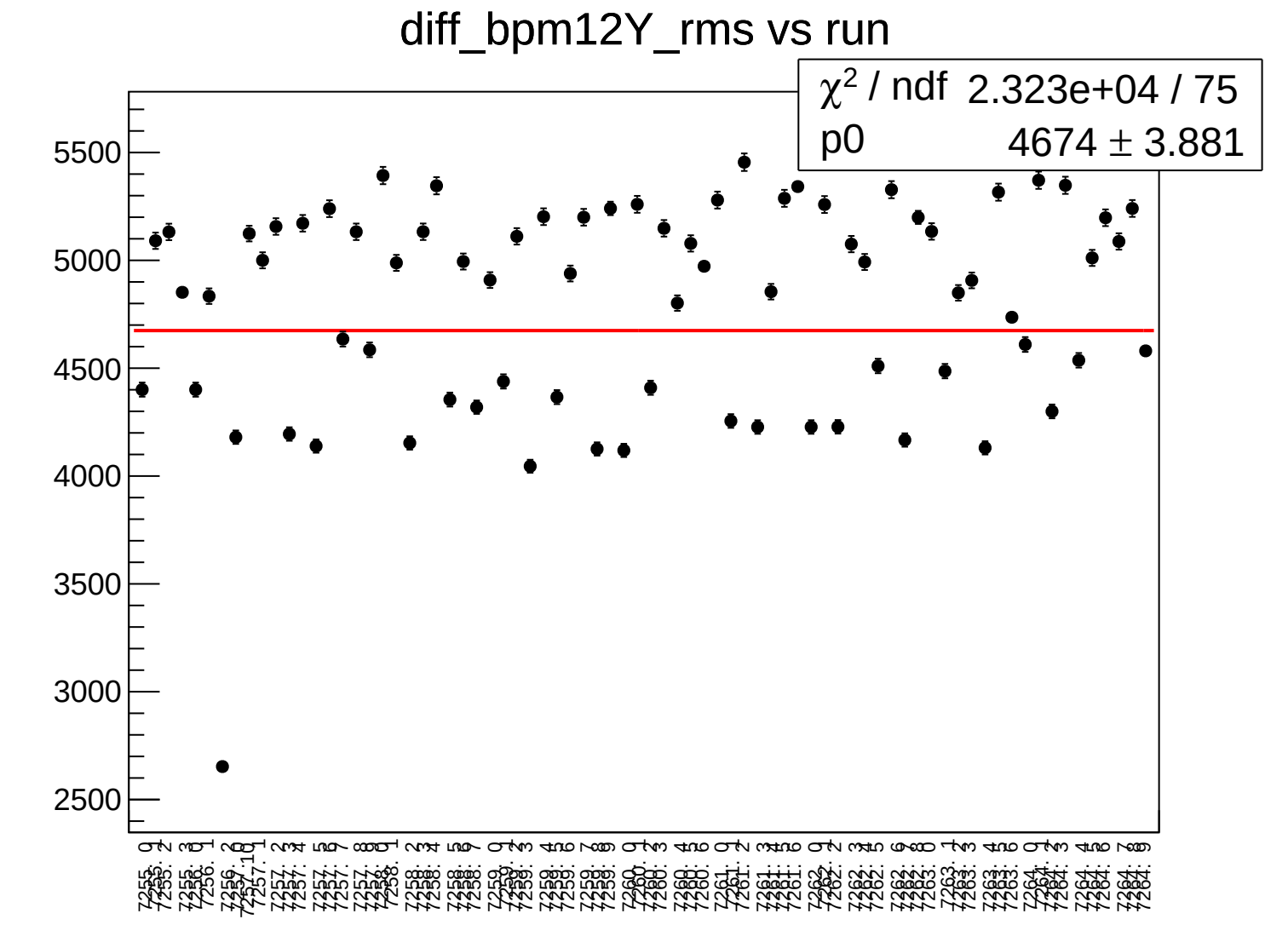

diff_bpm12X_mean vs run
χ² / ndf 70.57 / 75
p0 42.96 ± 41.4
1000
500
0
−500
−1000
−1500
pull
Entries 76
Mean −100.6
Std Dev 145.1
2
1
0
−1

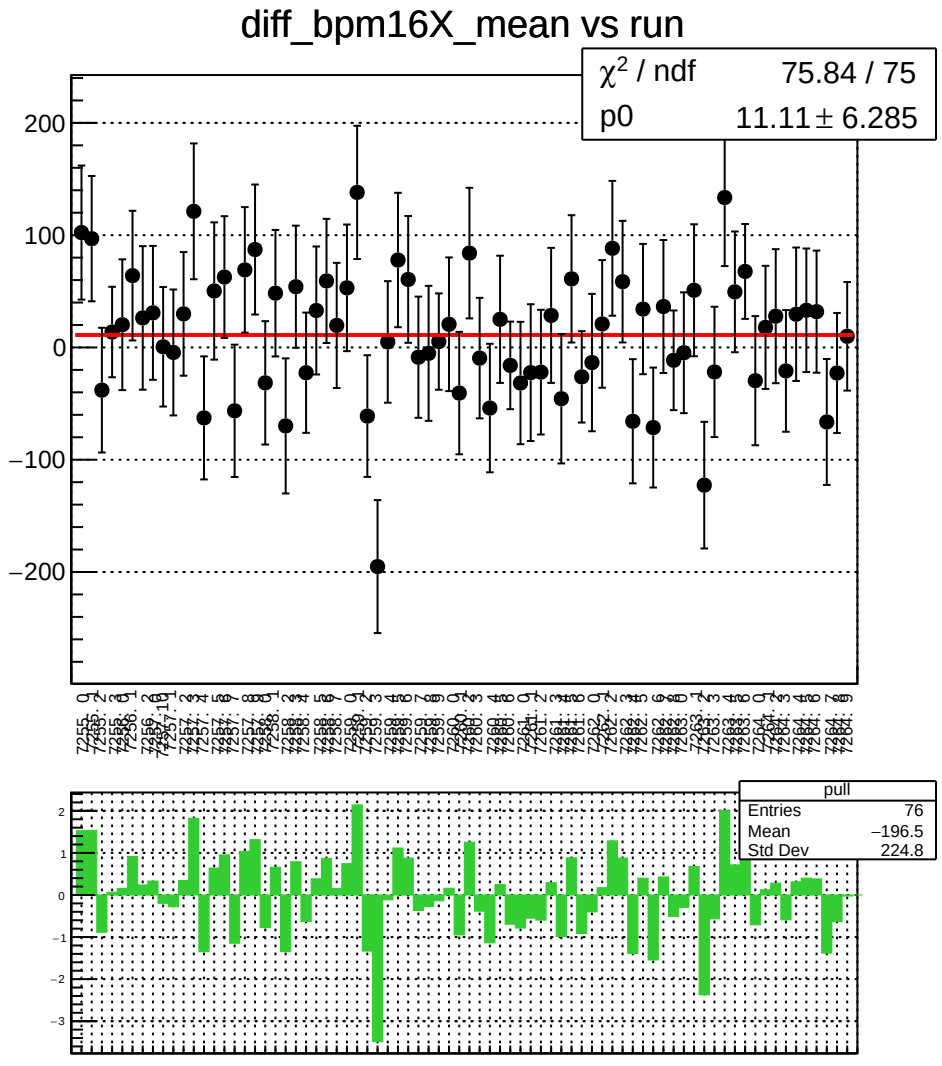

pull1D
Entries 76
Mean 0.01912
Std Dev 0.9634
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

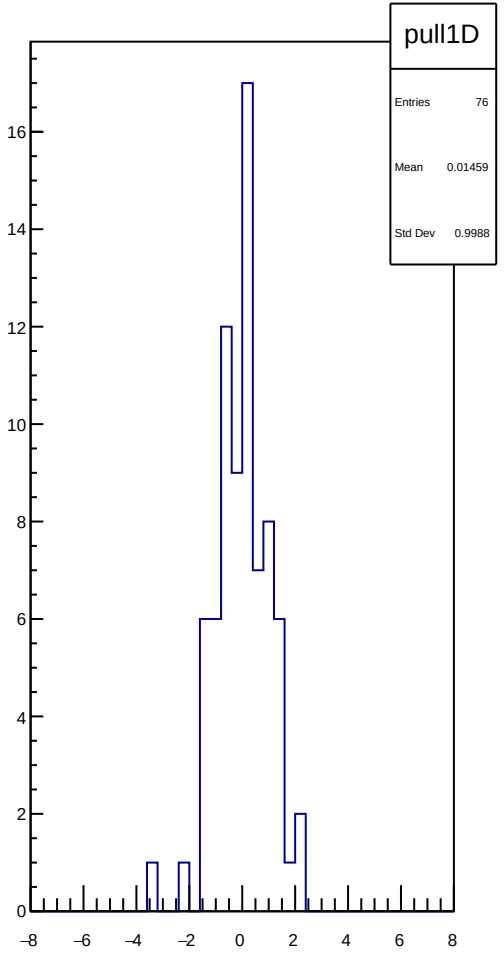

diff_bpm12X_rms vs run
χ² / ndf 6273 / 75
p0 3.546e+04 ± 29.28
42000
40000
38000
36000
34000
32000
30000

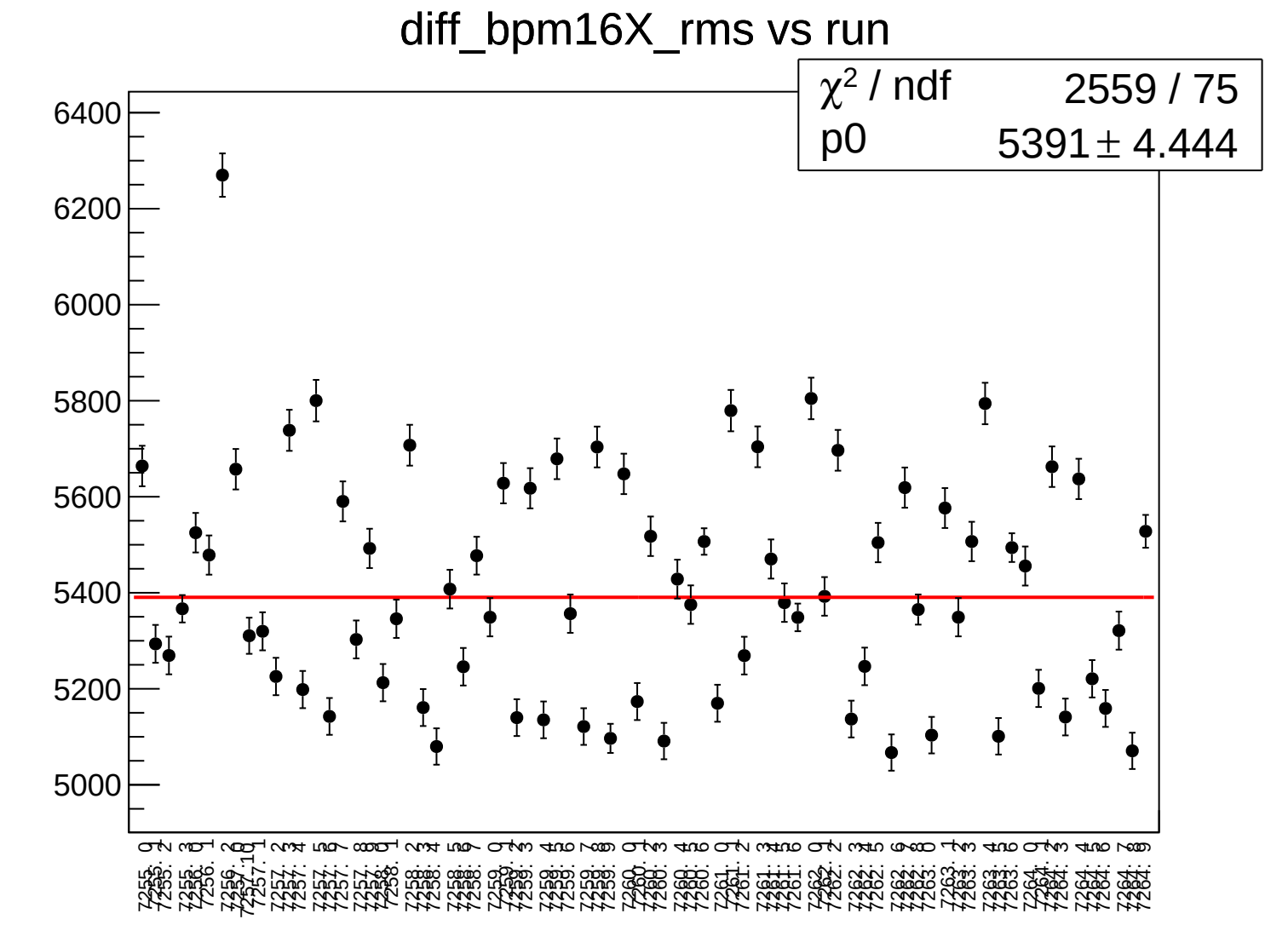

diff_bpm12Y_mean vs run
χ² / ndf 74.88 / 75
p0 −4.427 ± 5.489
pull
Entries 76
Mean 70.04
Std Dev 72.66

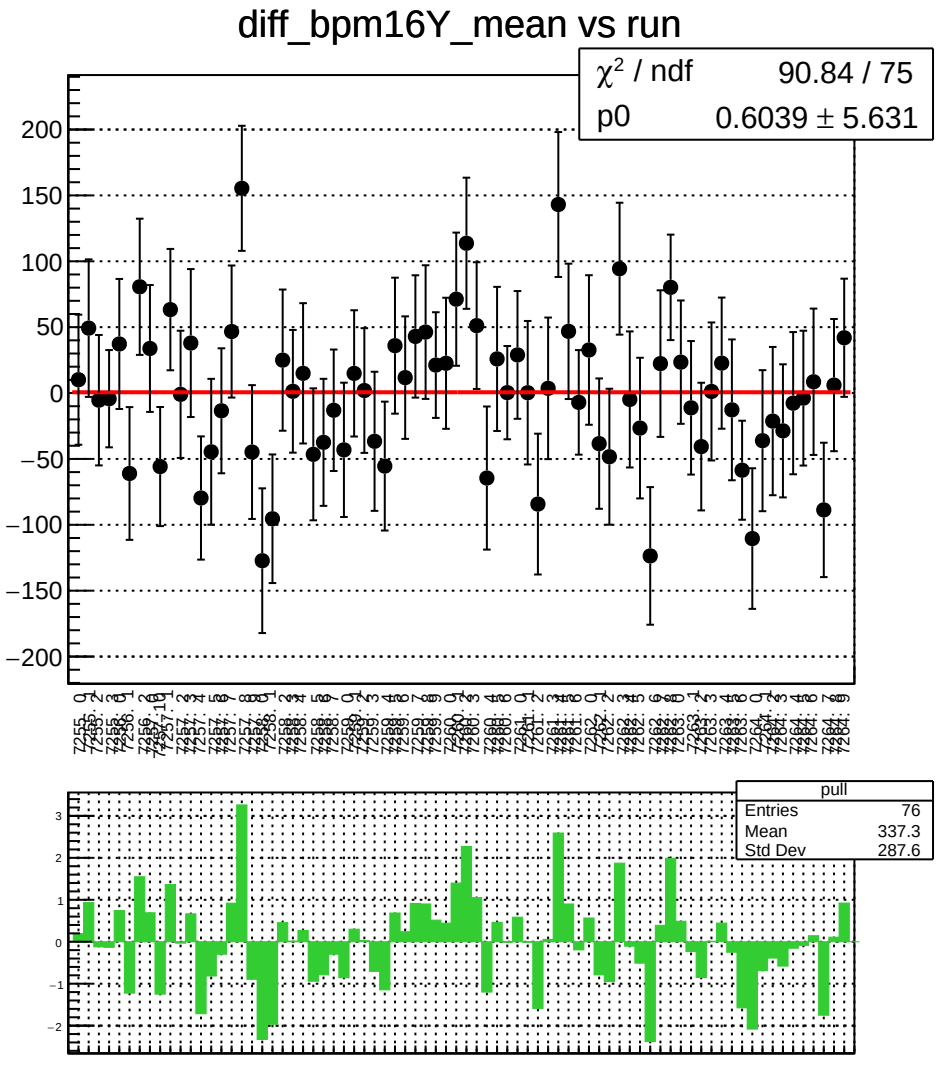

pull1D
Entries 76
Mean −0.01997
Std Dev 0.9924

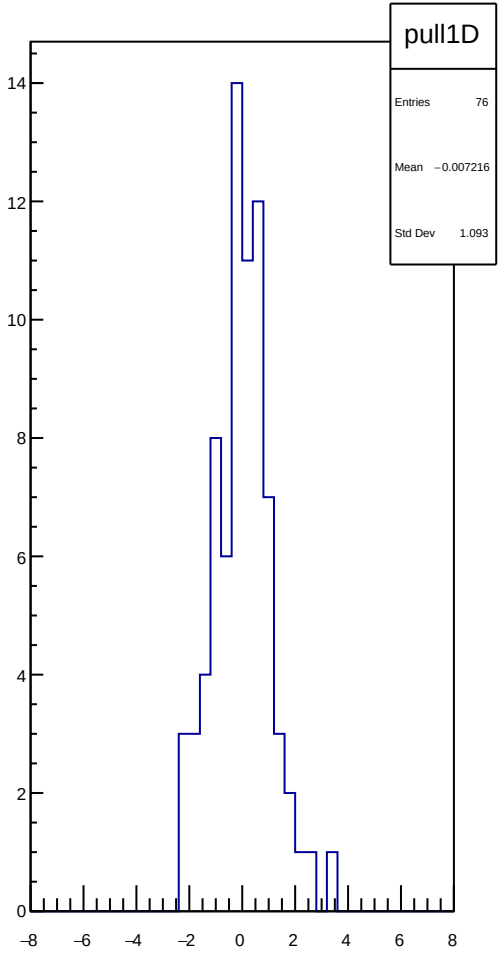

diff_bpm12Y_rms vs run
χ^2 / ndf 2.323e+04 / 75
p0 4674 ± 3.881
5500
5000
4500
4000
3500
3000
2500

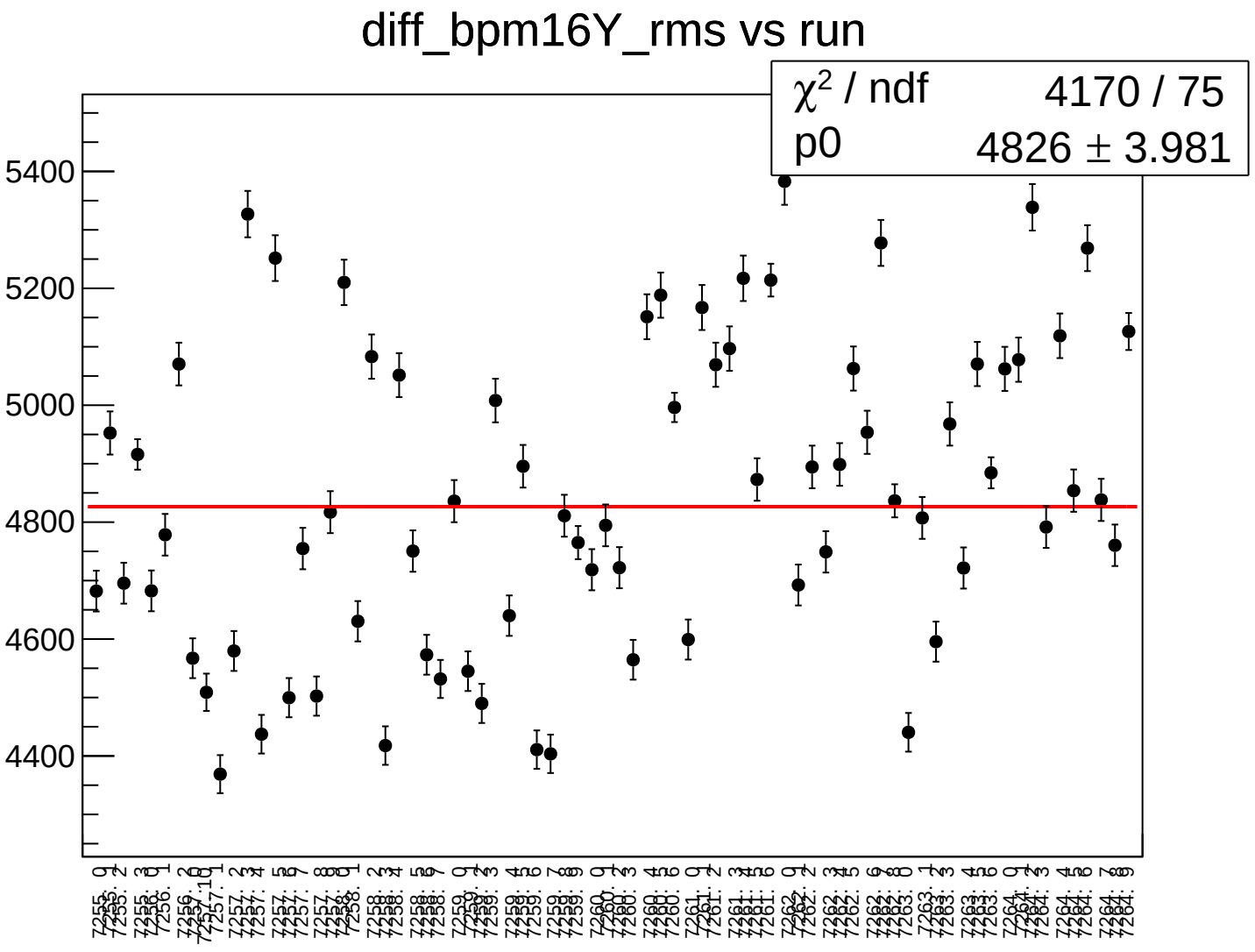

diff_bpm16X_mean vs run
χ² / ndf 75.84 / 75
p0 11.11 ± 6.285
pull
Entries 76
Mean −196.5
Std Dev 224.8

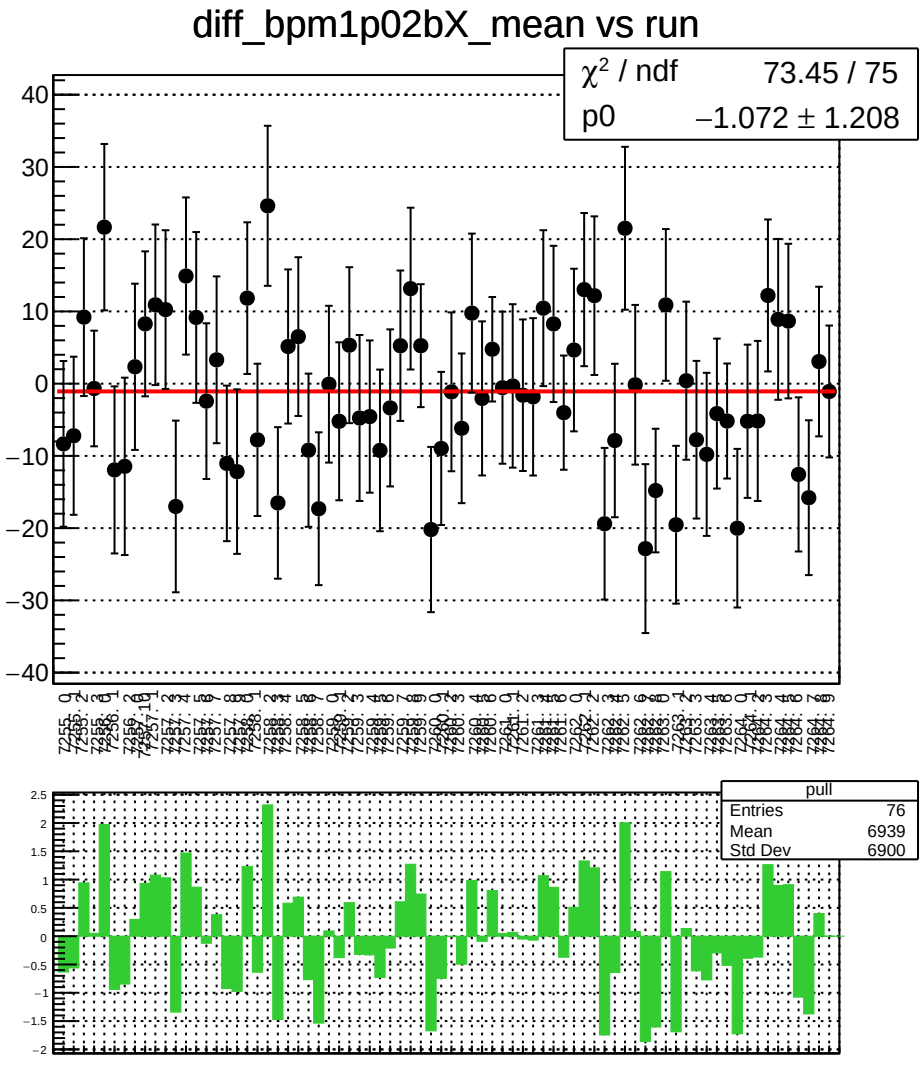

pull1D
Entries 76
Mean 0.01459
Std Dev 0.9988

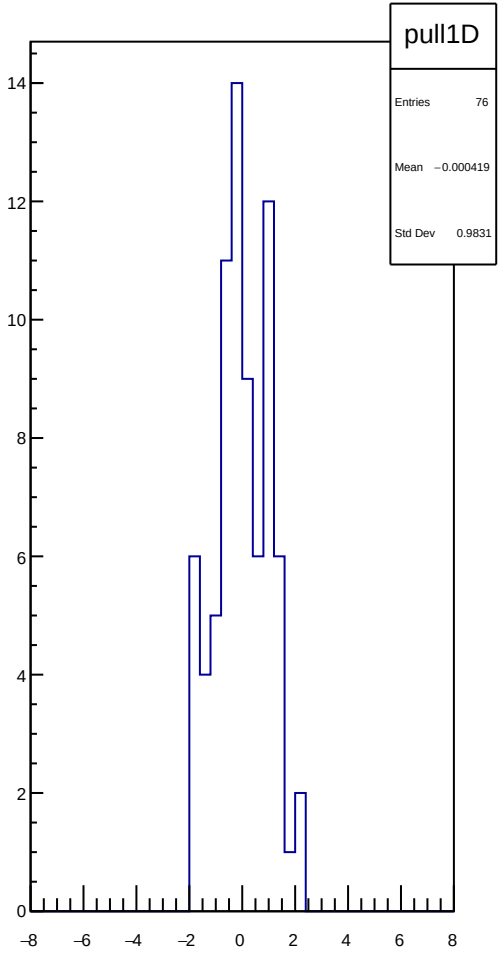

diff_bpm16X_rms vs run
χ² / ndf 2559 / 75
p0 5391 ± 4.444
6400
6200
6000
5800
5600
5400
5200
5000

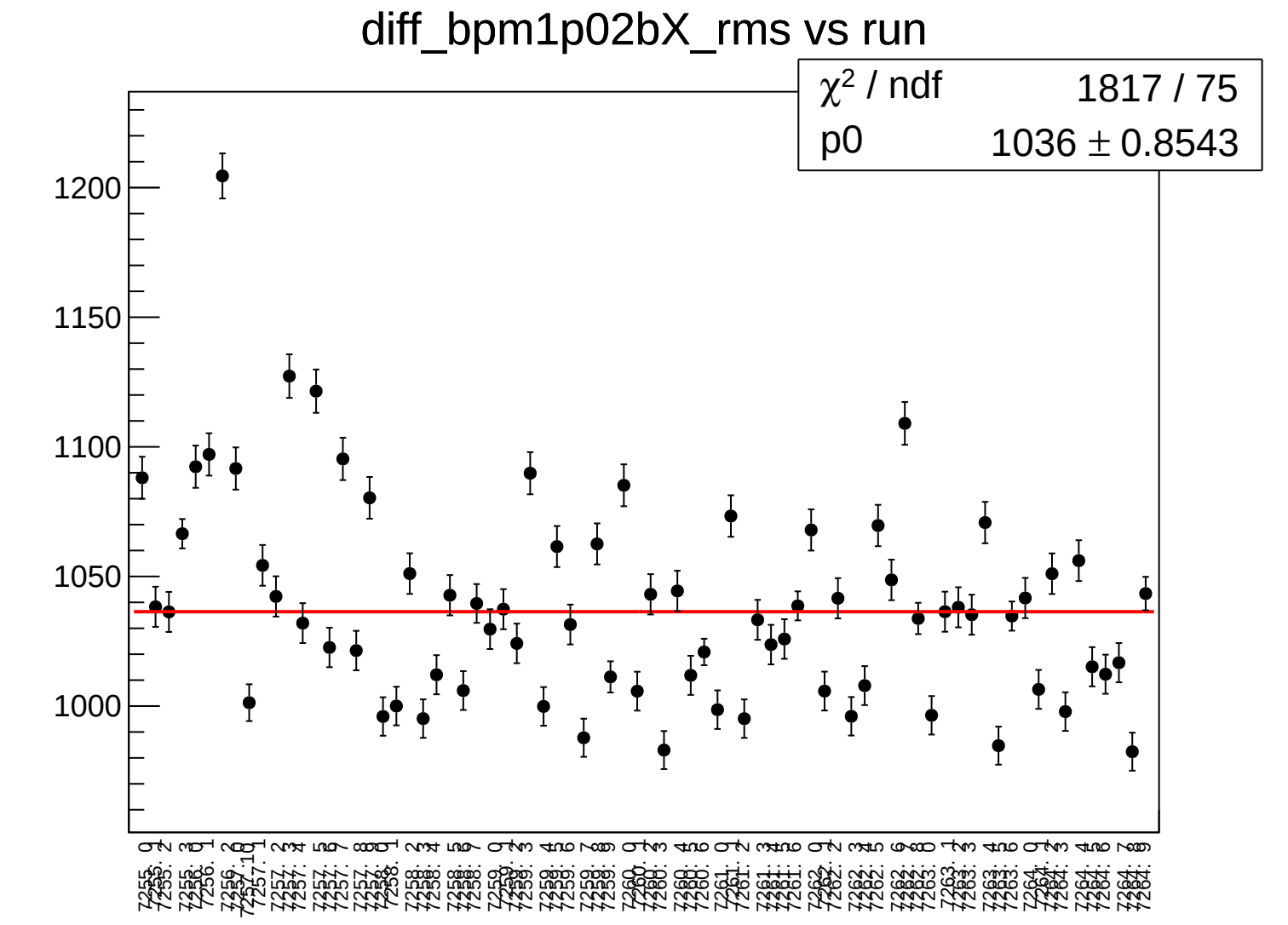

diff_bpm16Y_mean vs run
χ² / ndf 90.84 / 75
p0 0.6039 ± 5.631
pull
Entries 76
Mean 337.3
Std Dev 287.6

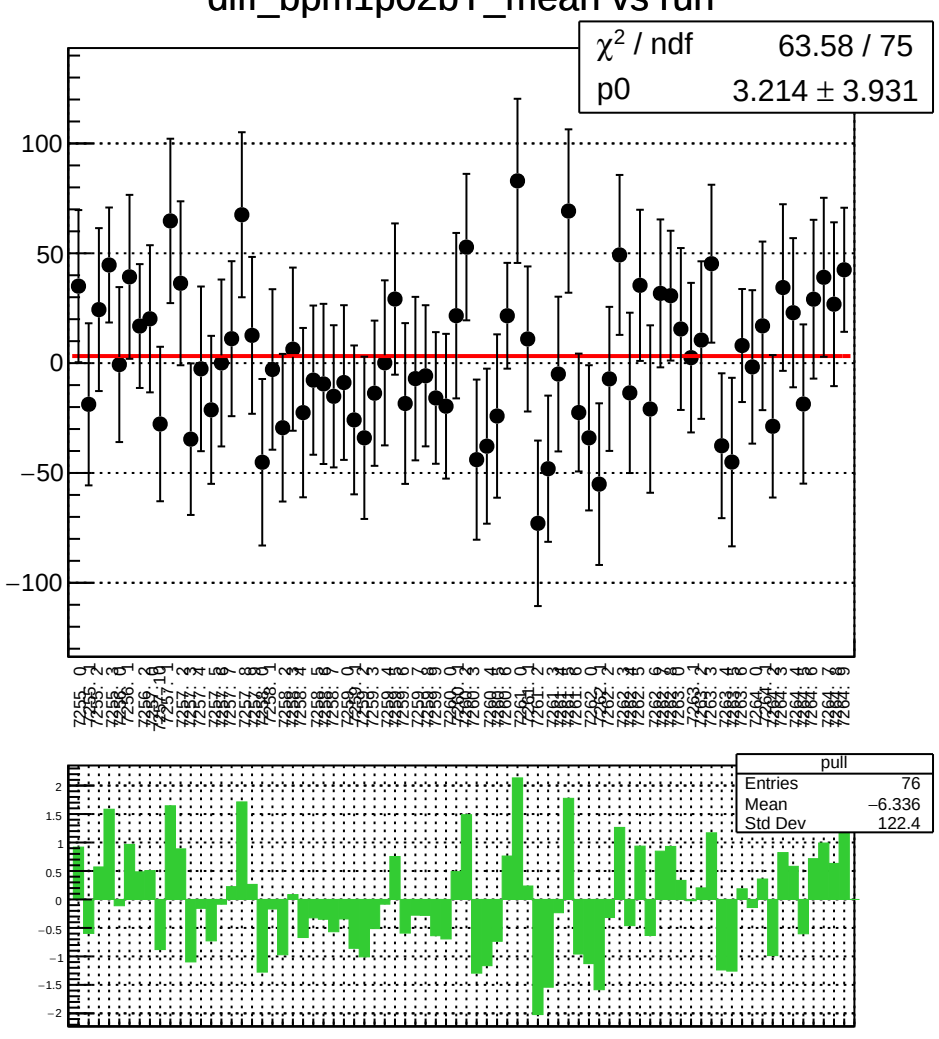

pull1D
Entries 76
Mean −0.007216
Std Dev 1.093

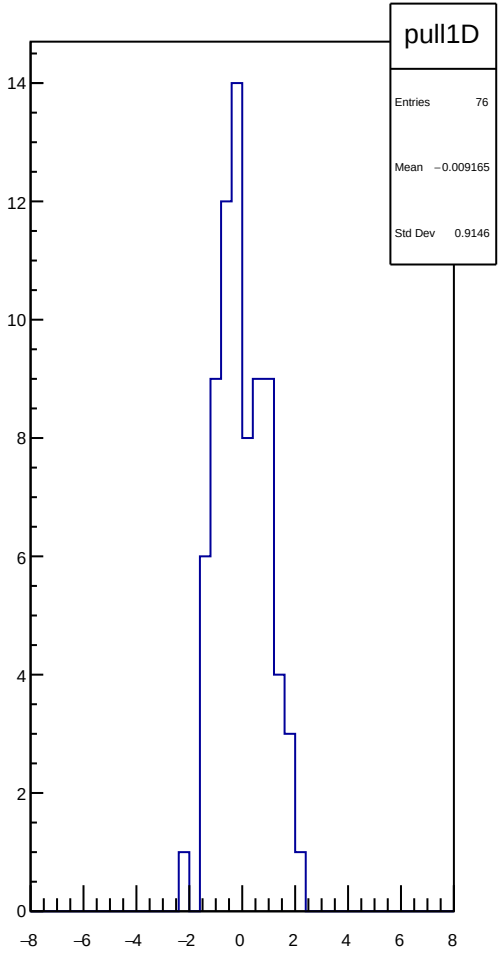

diff_bpm16Y_rms vs run
χ² / ndf 4170 / 75
p0 4826 ± 3.981
5400
5200
5000
4800
4600
4400

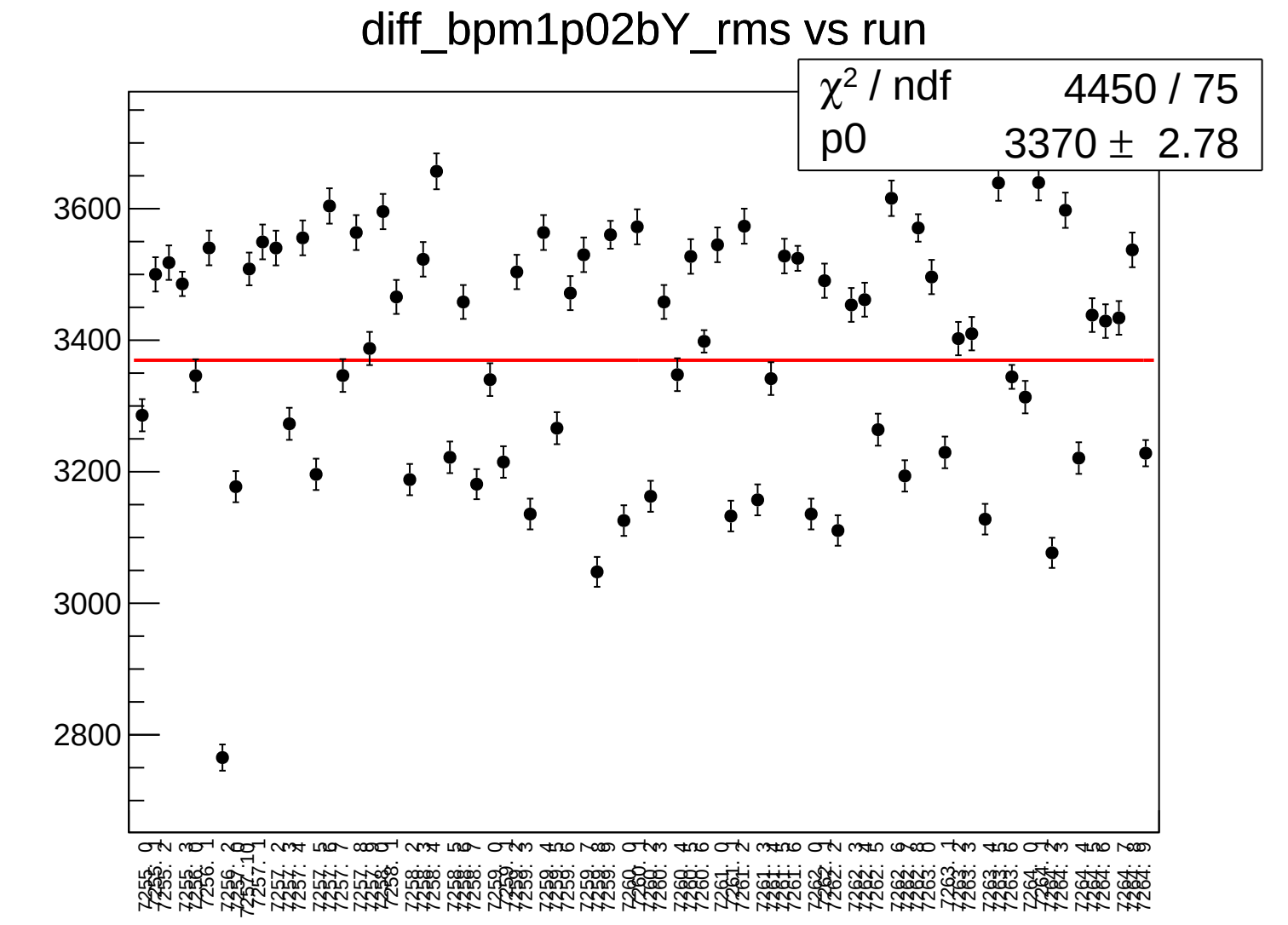

diff_bpm1p02bX_mean vs run
χ² / ndf 73.45 / 75
p0 −1.072 ± 1.208
pull
Entries 76
Mean 6939
Std Dev 6900

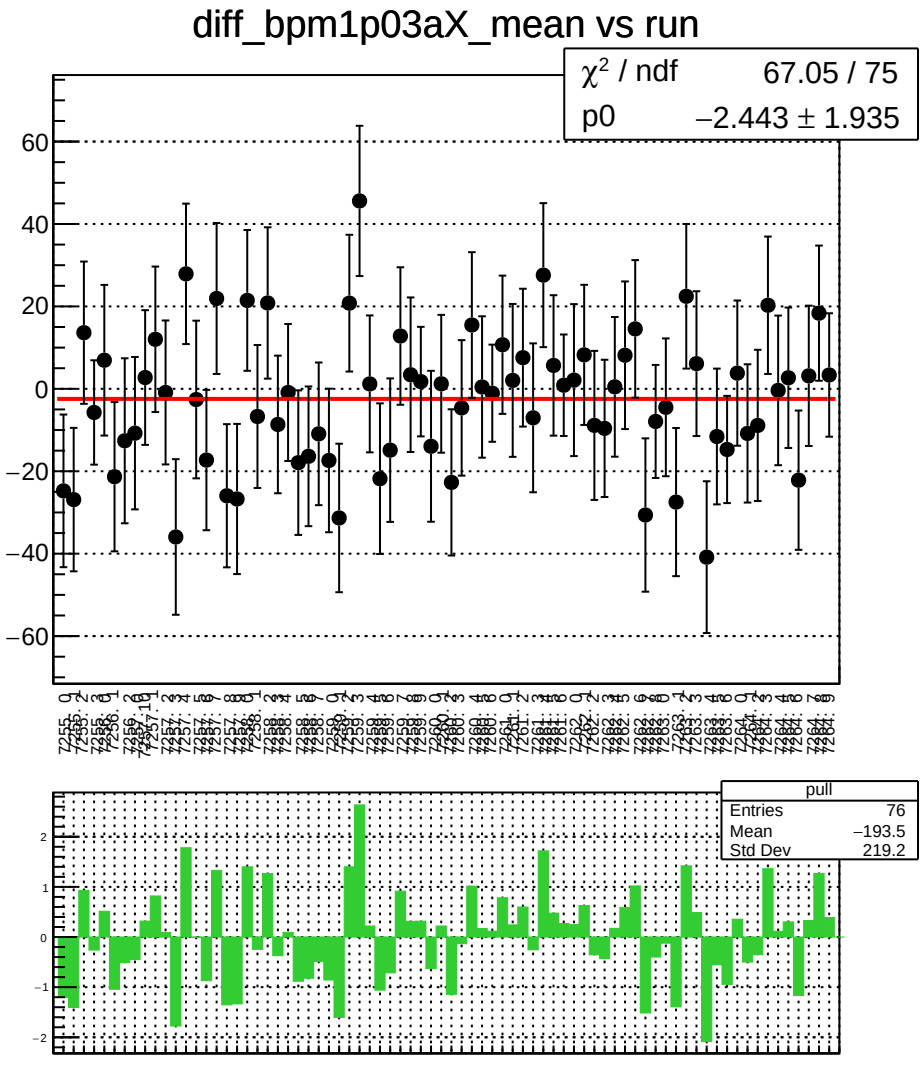

pull1D
Entries 76
Mean −0.000419
Std Dev 0.9831

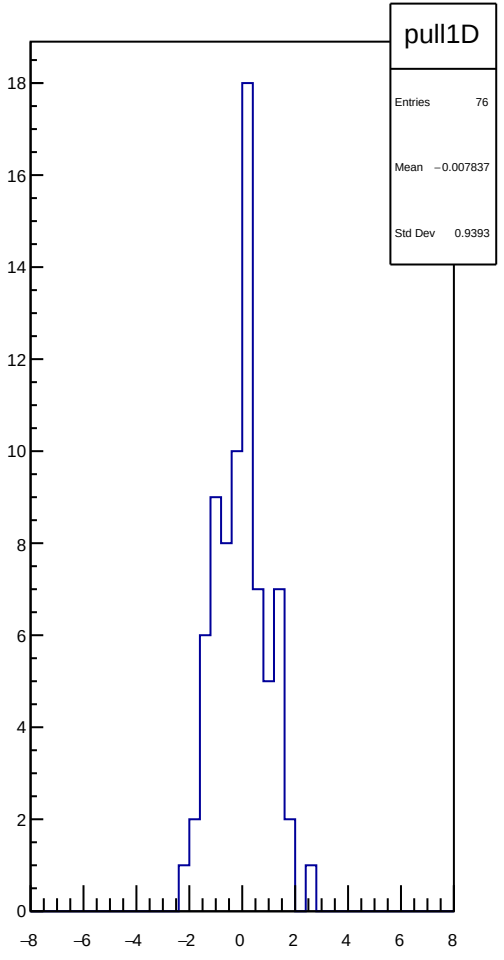

diff_bpm1p02bX_rms vs run
χ² / ndf 1817 / 75
p0 1036 ± 0.8543
1200
1150
1100
1050
1000

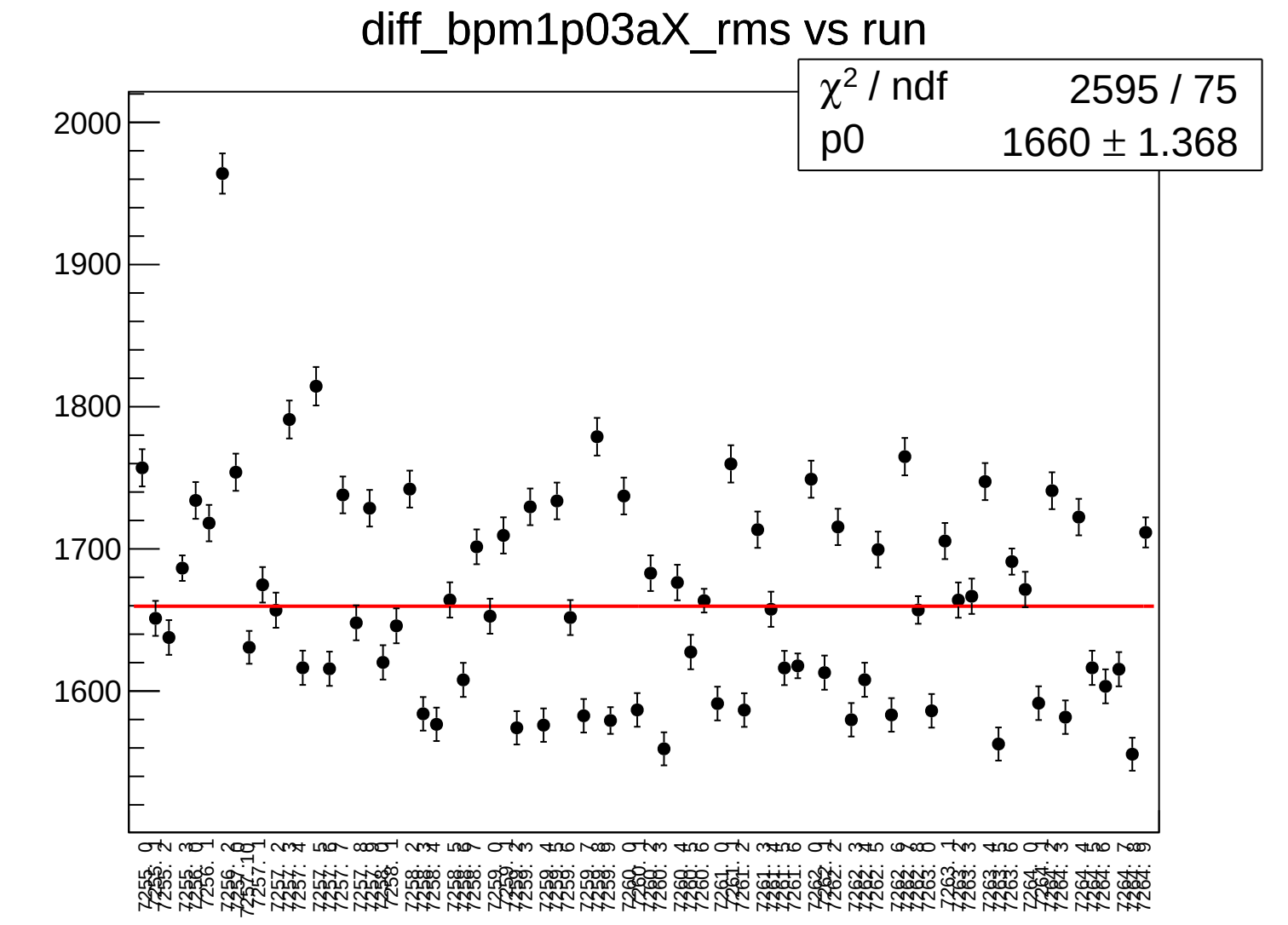

diff_bpm1p02bY_mean vs run
χ² / ndf 63.58 / 75
p0 3.214 ± 3.931
pull
Entries 76
Mean −6.336
Std Dev 122.4

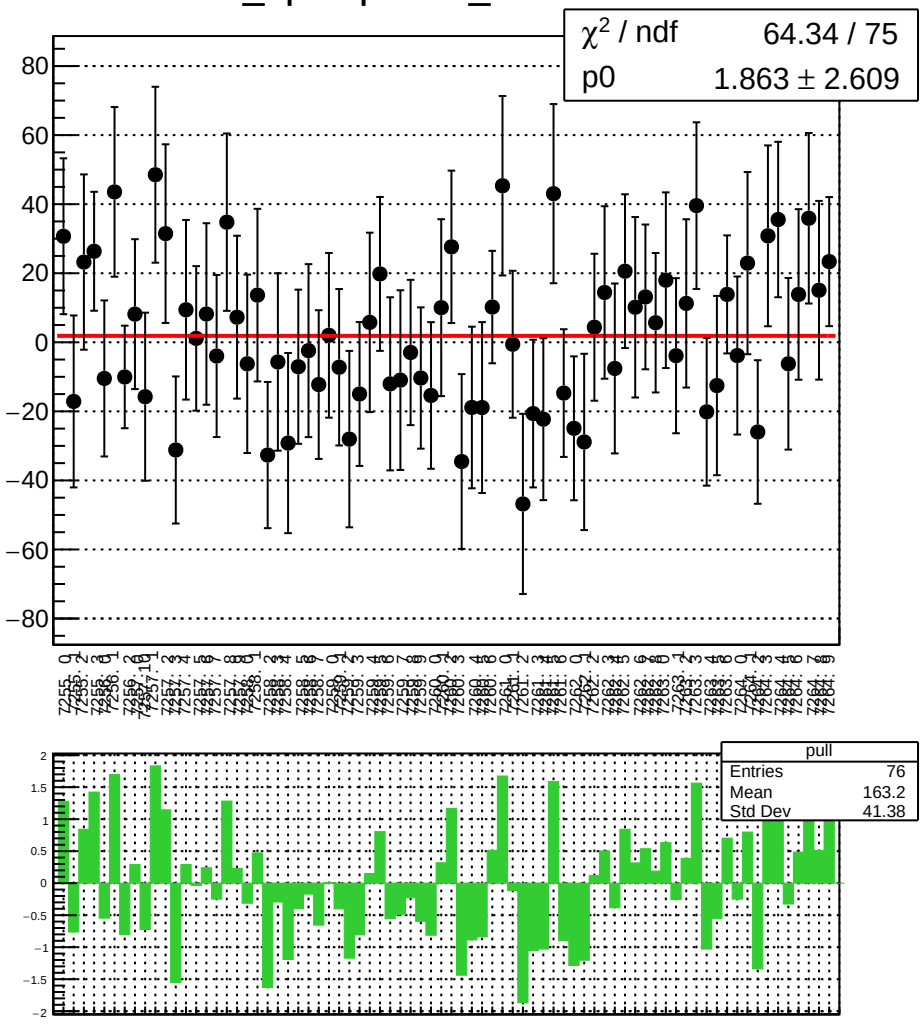

pull1D
Entries 76
Mean −0.009165
Std Dev 0.9146

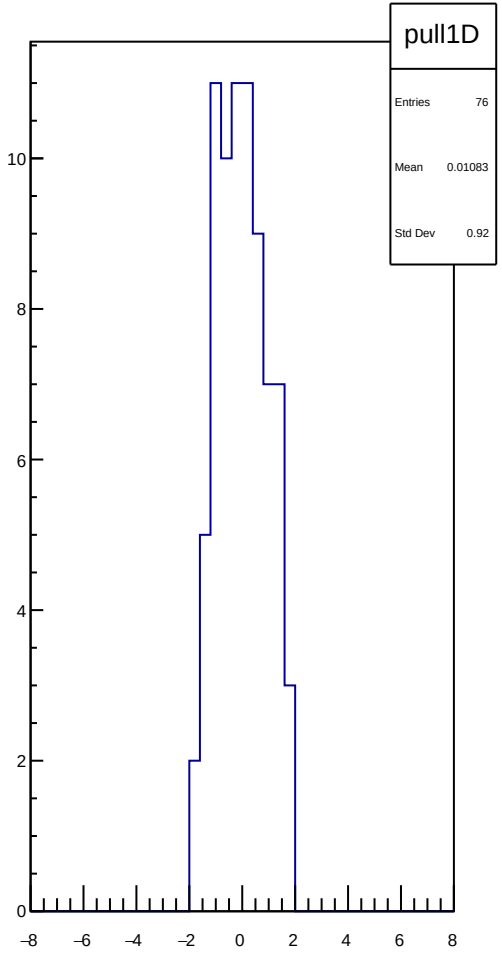

diff_bpm1p02bY_rms vs run
χ² / ndf 4450 / 75
p0 3370 ± 2.78
3600
3400
3200
3000
2800

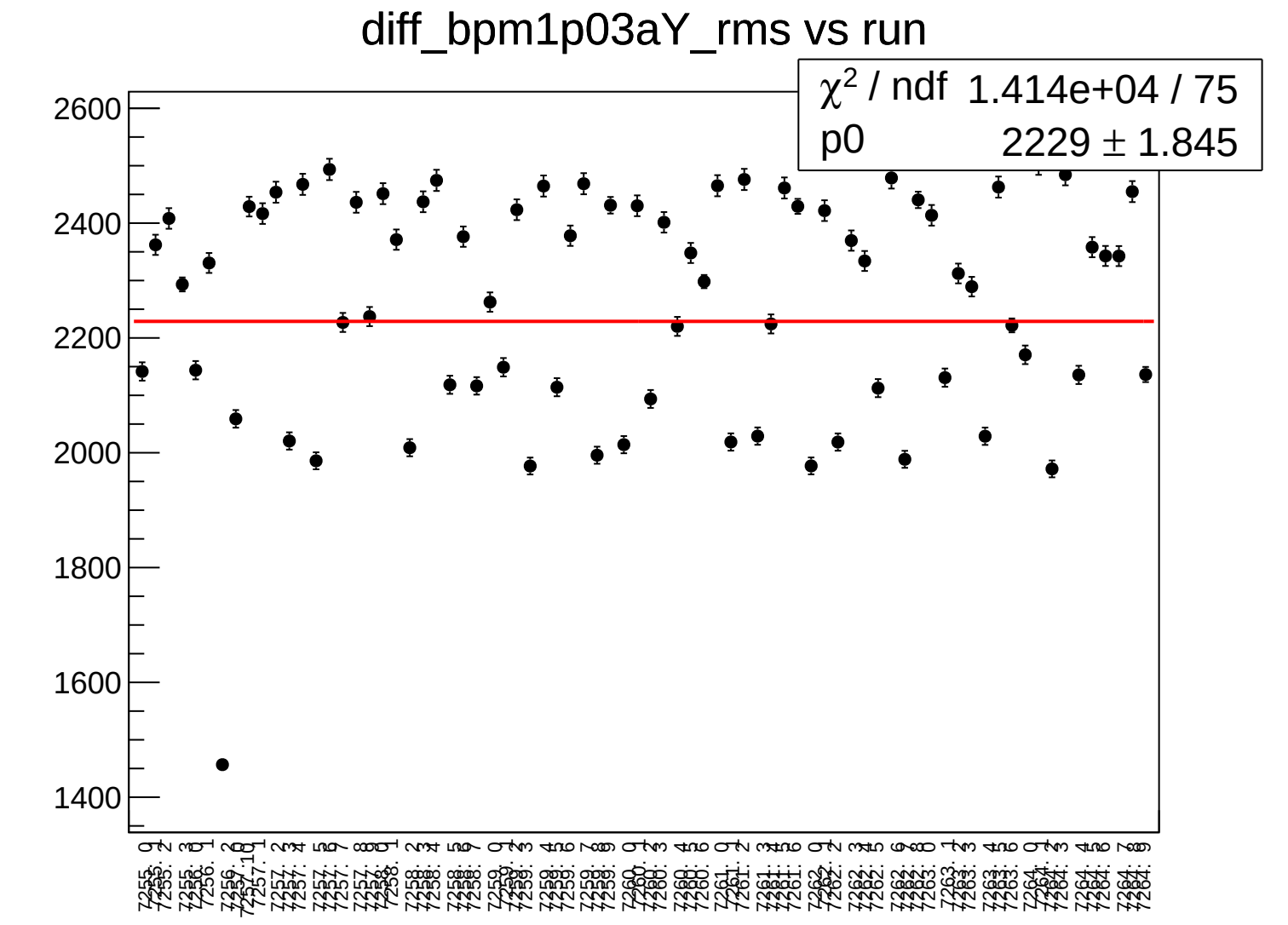

diff_bpm1p03aX_mean vs run
χ² / ndf 67.05 / 75
p0 −2.443 ± 1.935
pull
Entries 76
Mean −193.5
Std Dev 219.2

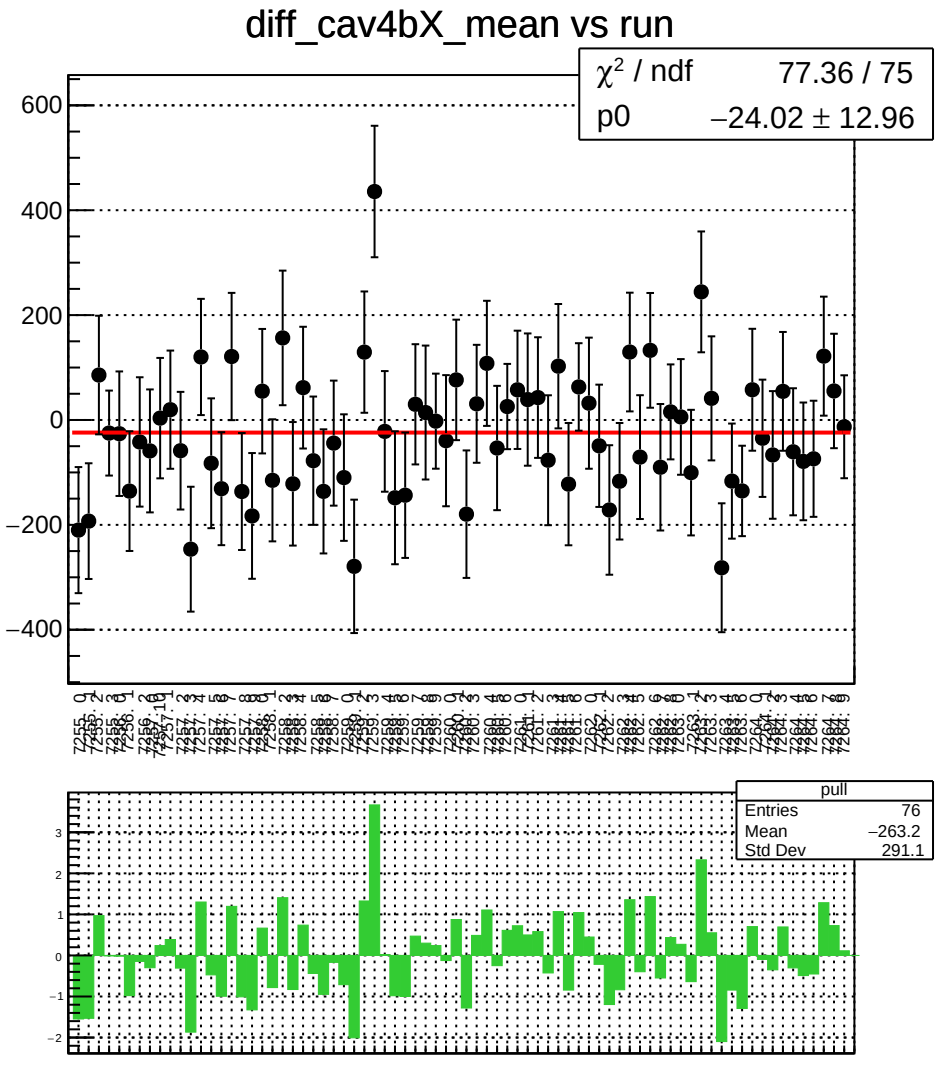

pull1D
Entries 76
Mean −0.007837
Std Dev 0.9393

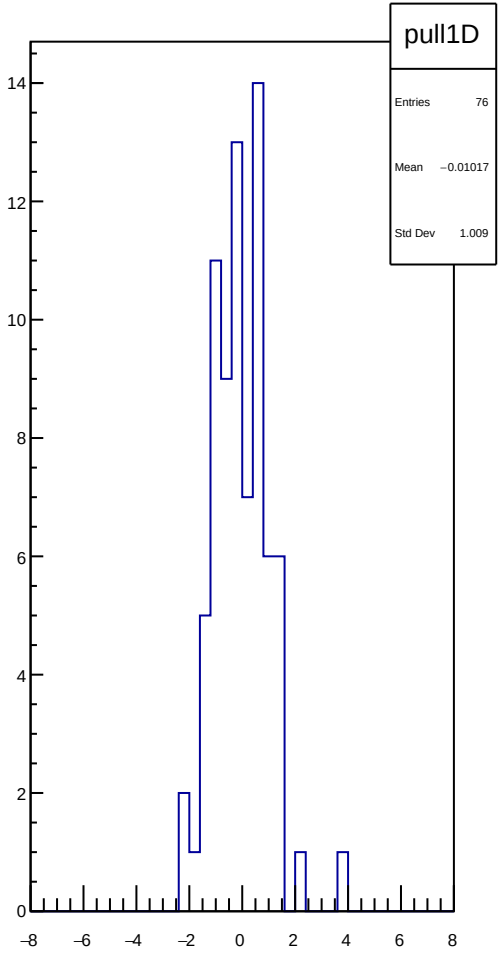

diff_bpm1p03aX_rms vs run
χ² / ndf 2595 / 75
p0 1660 ± 1.368
2000
1900
1800
1700
1600

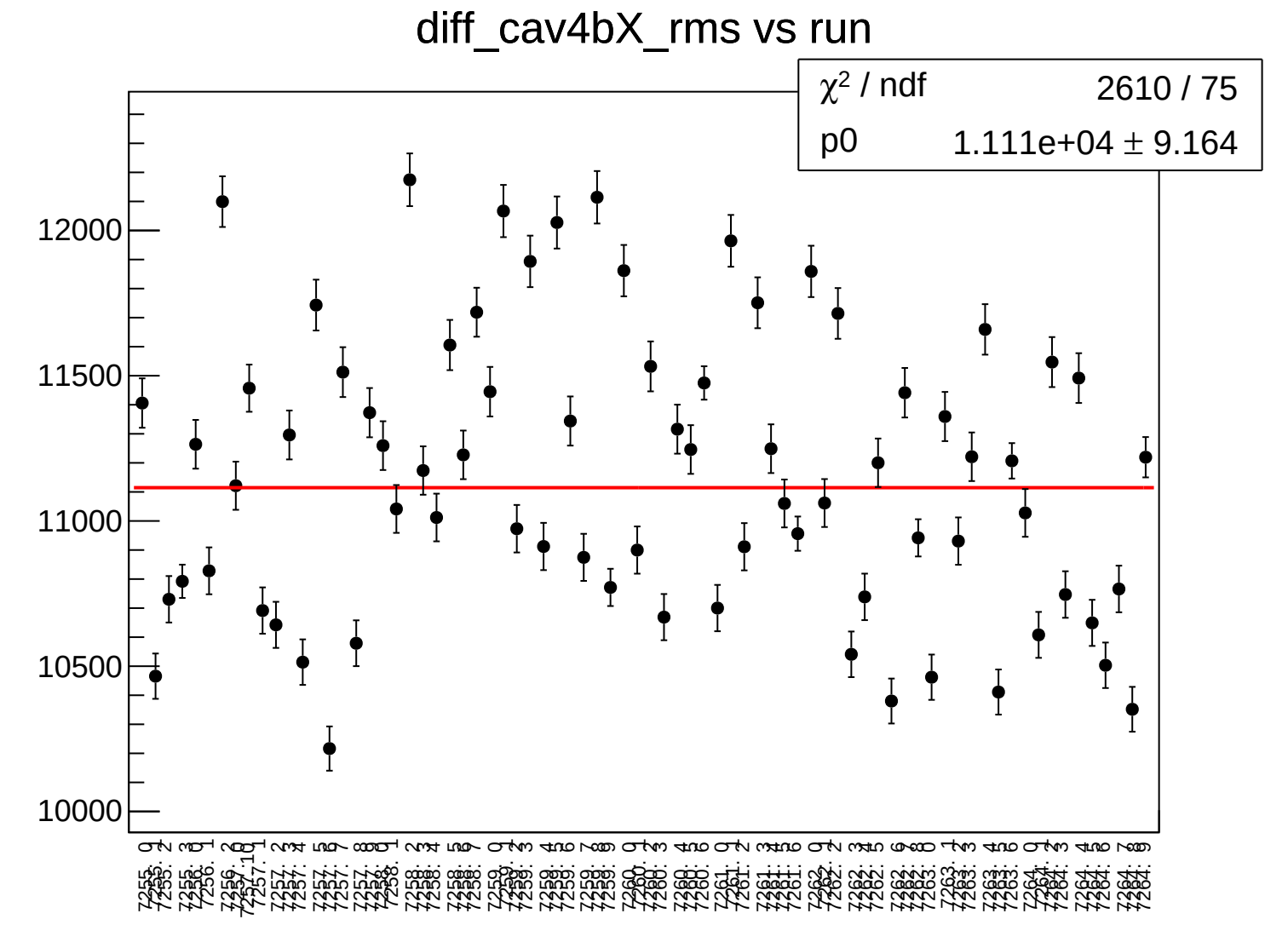

diff_bpm1p03aY_mean vs run
χ² / ndf 64.34 / 75
p0 1.863 ± 2.609
pull
Entries 76
Mean 163.2
Std Dev 41.38

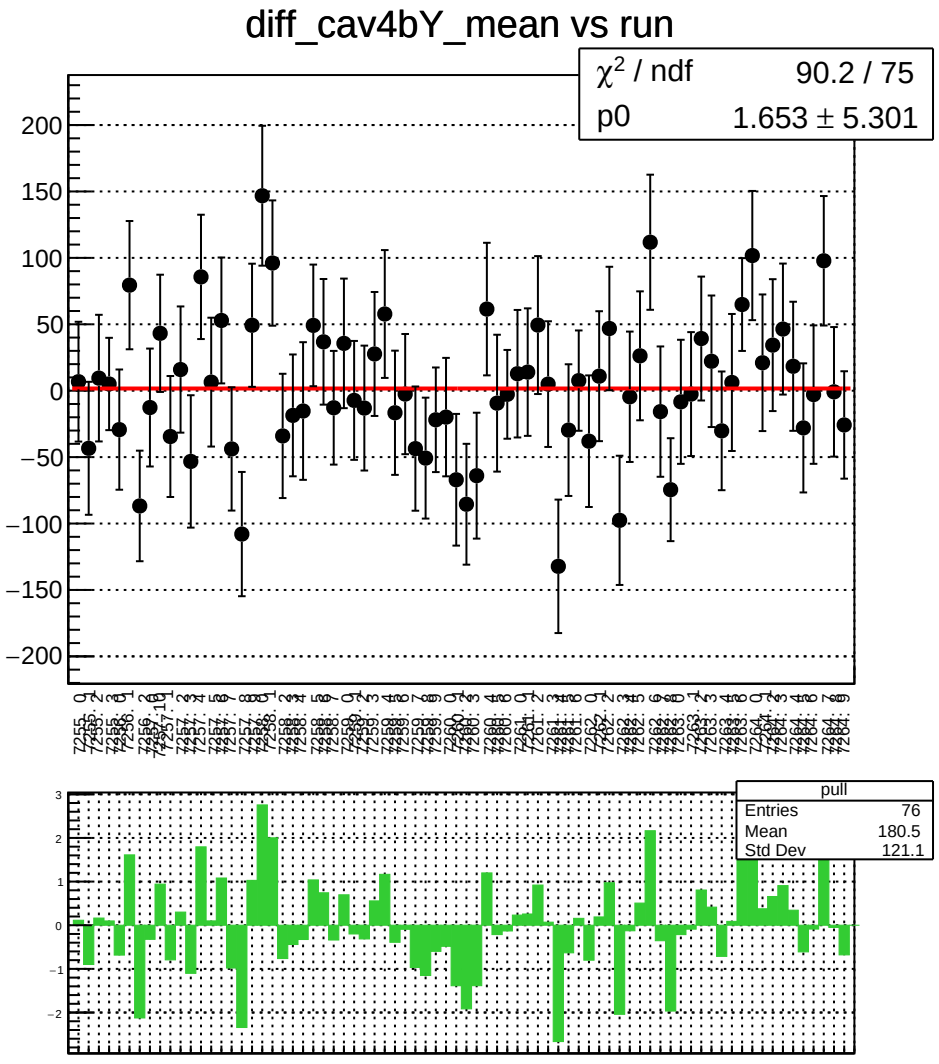

pull1D
Entries 76
Mean 0.01083
Std Dev 0.92

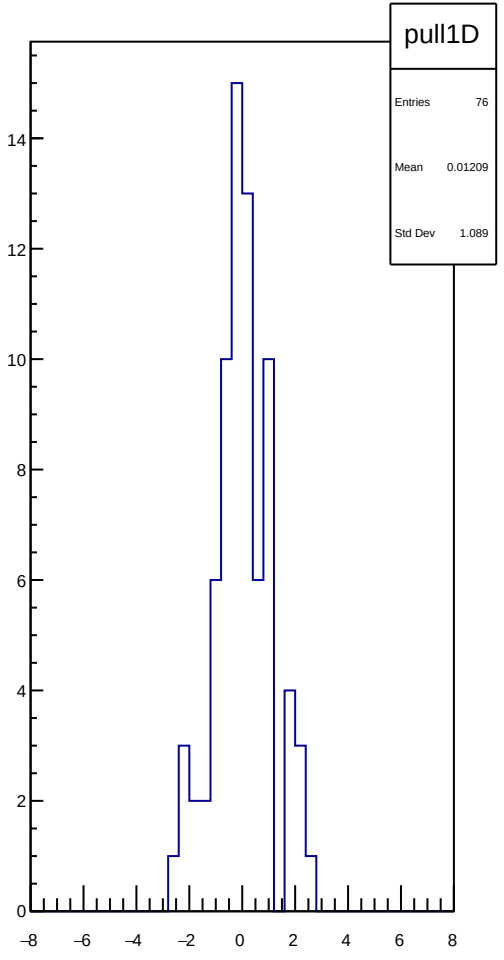

diff_bpm1p03aY_rms vs run
χ² / ndf 1.414e+04 / 75
p0 2229 ± 1.845
2600
2400
2200
2000
1800
1600
1400

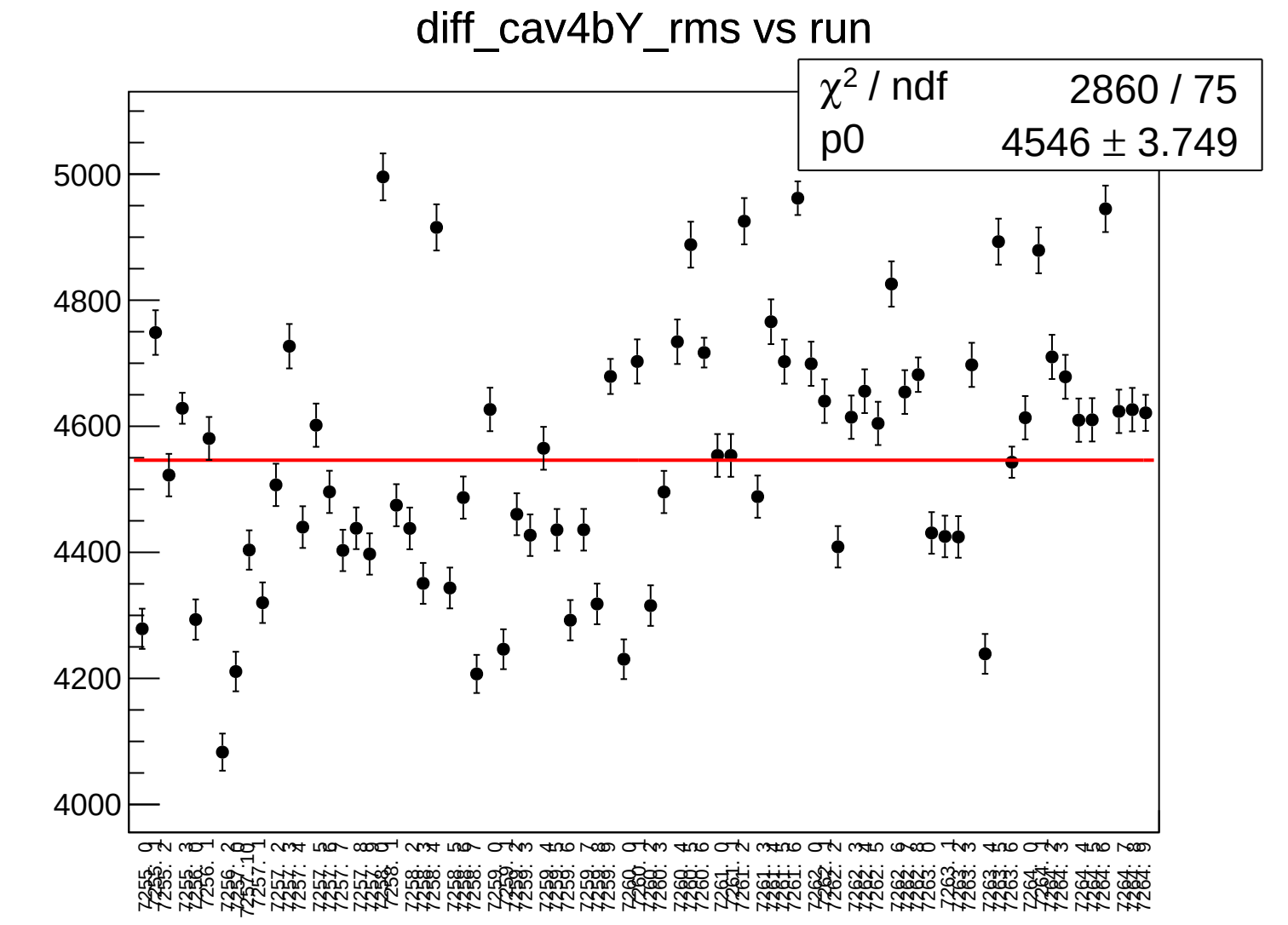

diff_cav4bX_mean vs run
χ² / ndf 77.36 / 75
p0 −24.02 ± 12.96
pull
Entries 76
Mean −263.2
Std Dev 291.1

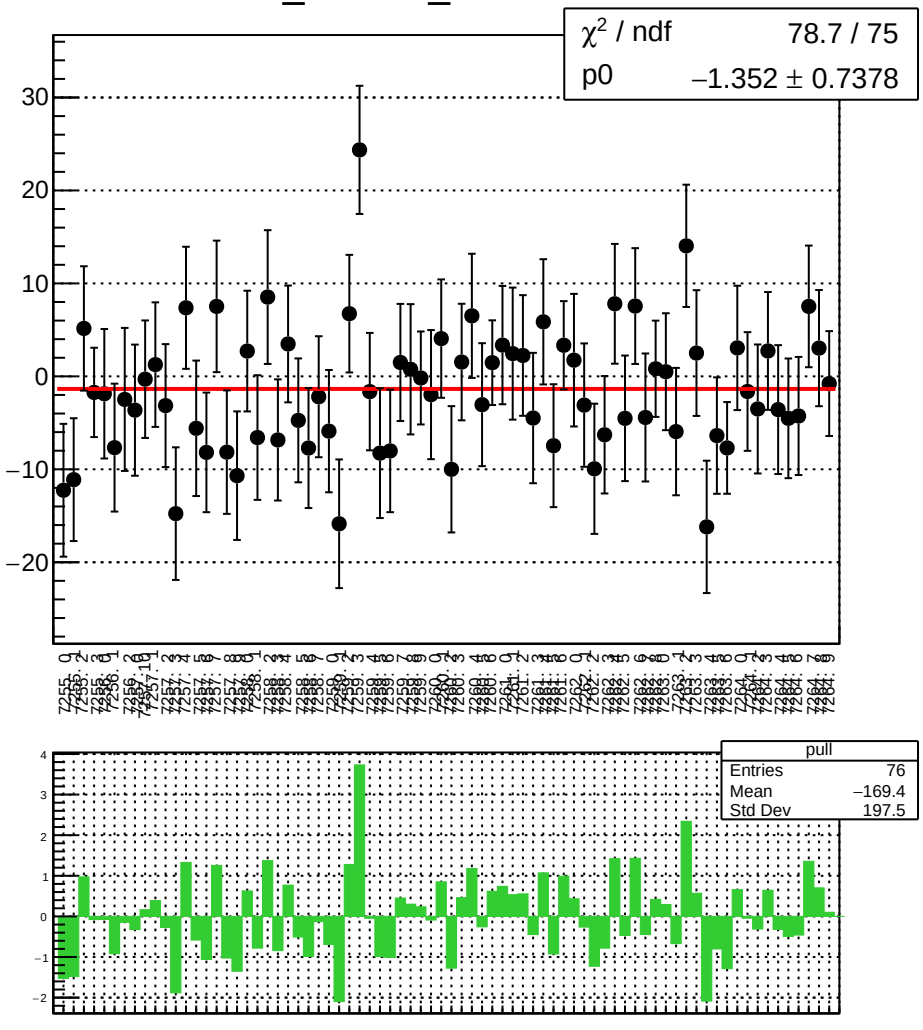

pull1D
Entries 76
Mean −0.01017
Std Dev 1.009

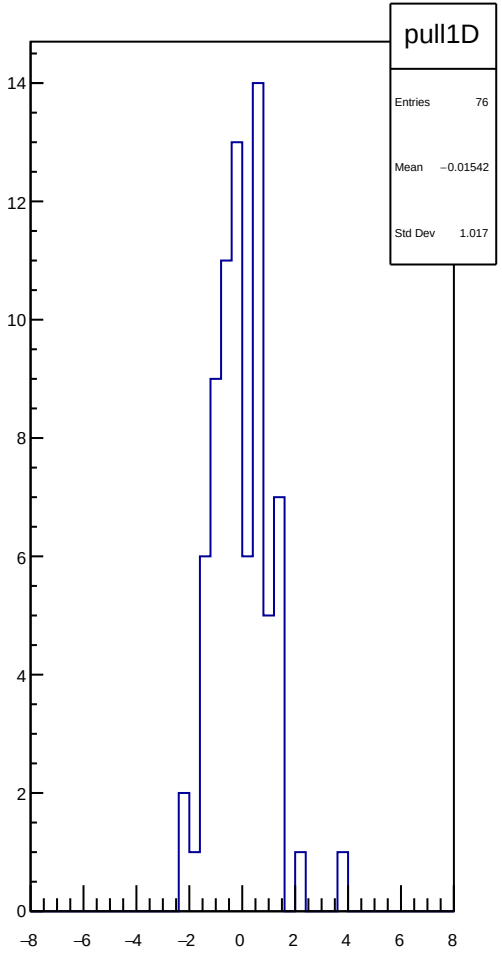

diff_cav4bX_rms vs run
χ² / ndf 2610 / 75
p0 1.111e+04 ± 9.164
12000
11500
11000
10500
10000

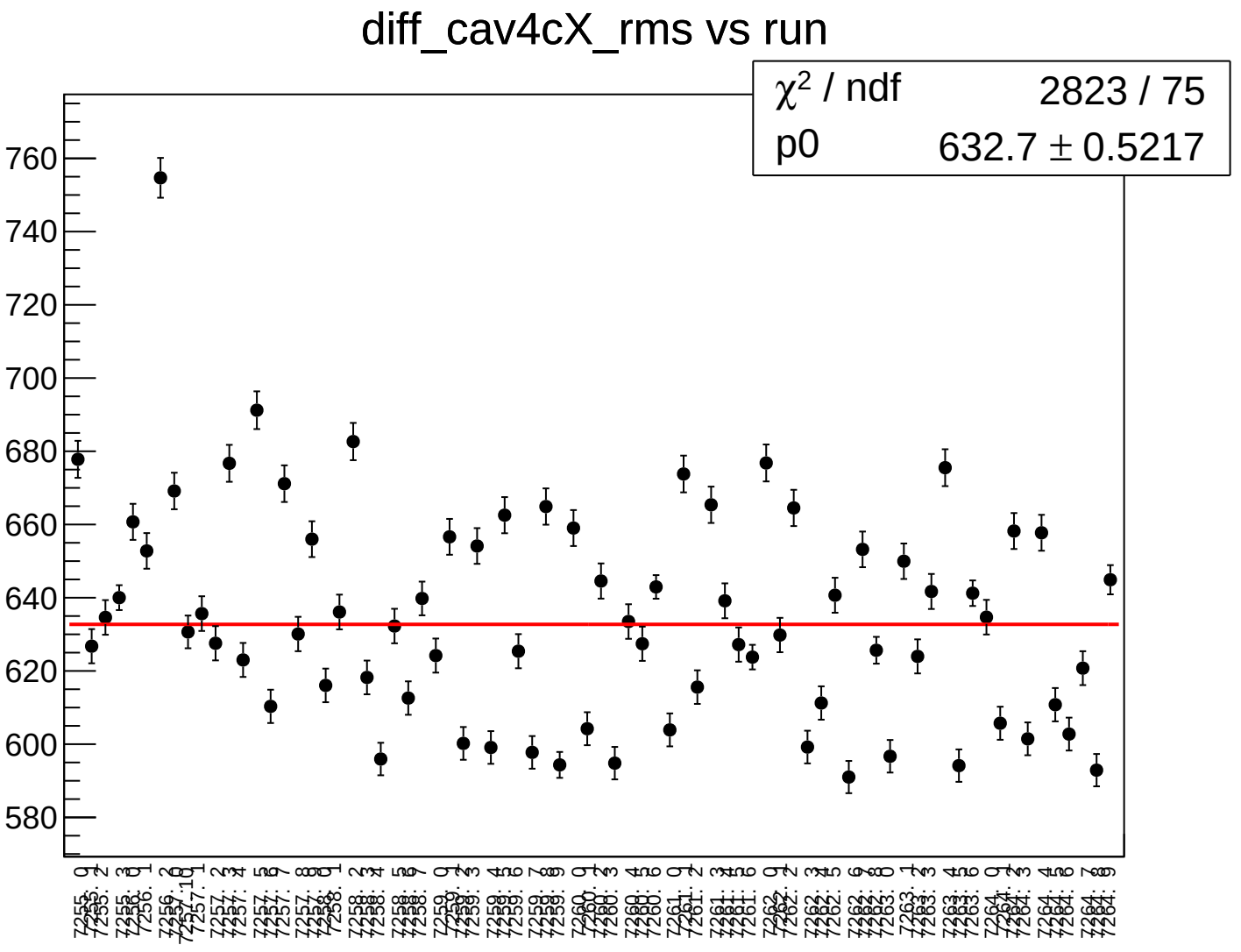

diff_cav4bY_mean vs run
χ^2 / ndf 90.2 / 75
p0 1.653 ± 5.301
pull
Entries 76
Mean 180.5
Std Dev 121.1

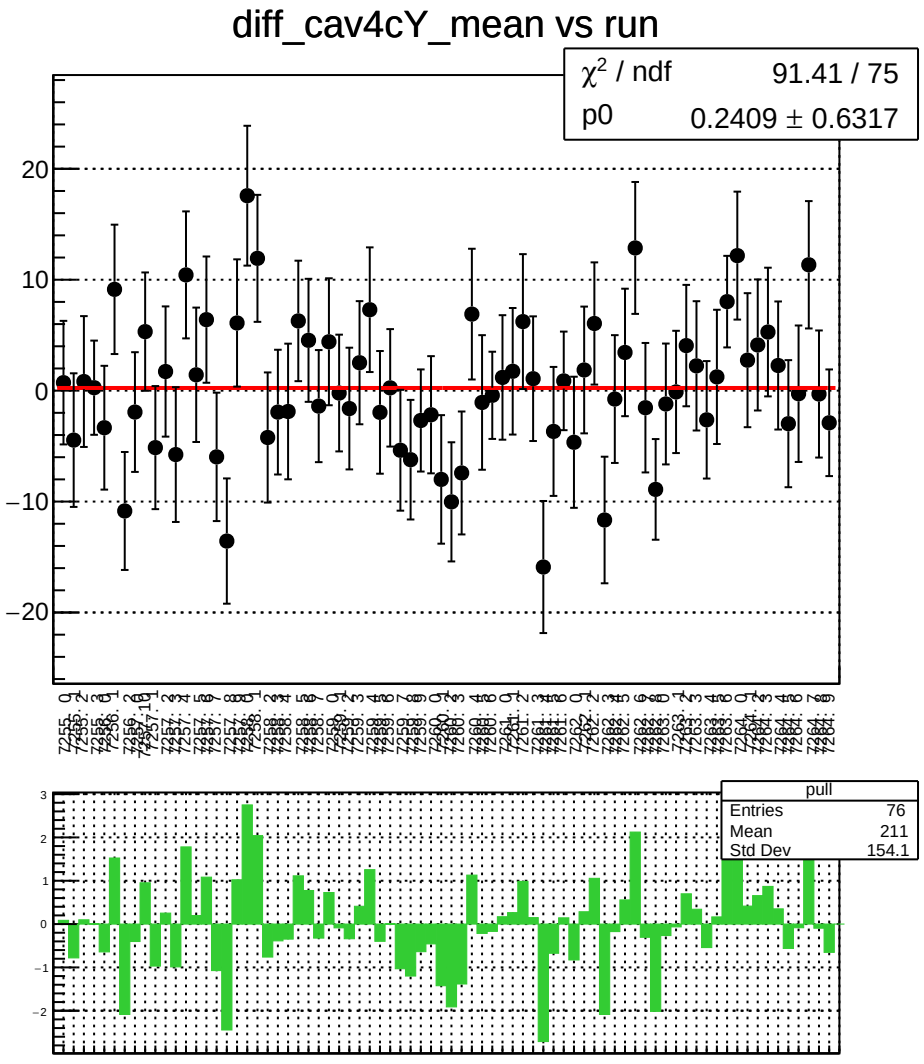

pull1D
Entries 76
Mean 0.01209
Std Dev 1.089

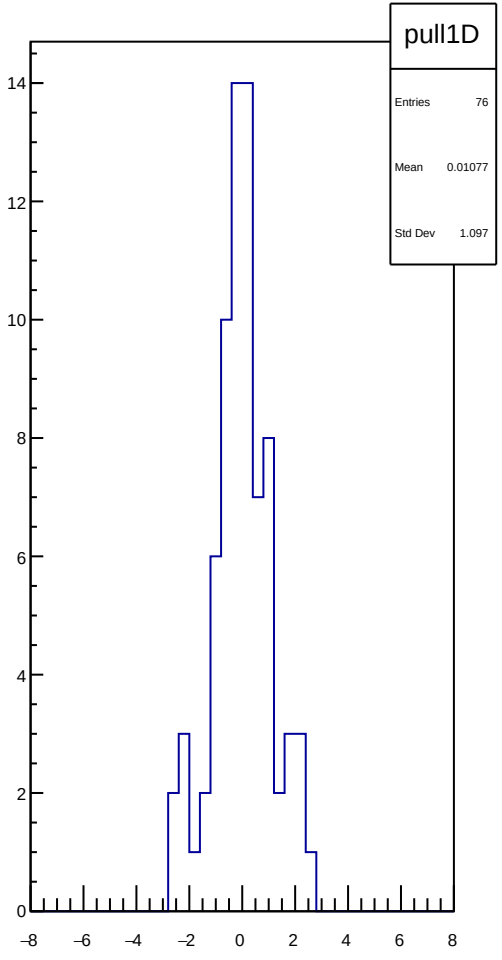

diff_cav4bY_rms vs run
χ^2 / ndf 2860 / 75
p0 4546 ± 3.749
5000
4800
4600
4400
4200
4000

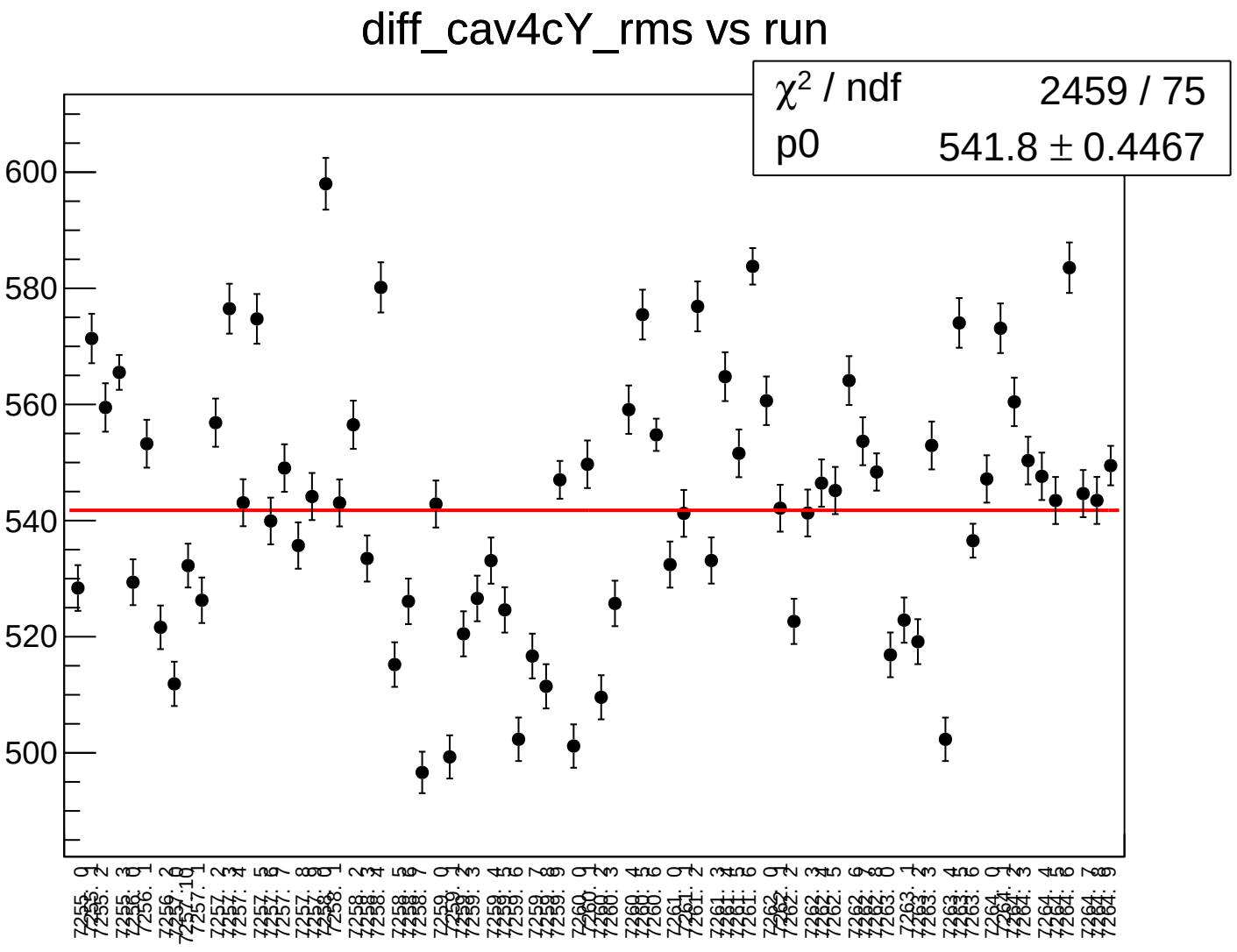

diff_cav4cX_mean vs run
χ^2 / ndf 78.7 / 75
p0 −1.352 ± 0.7378
pull
Entries 76
Mean −169.4
Std Dev 197.5

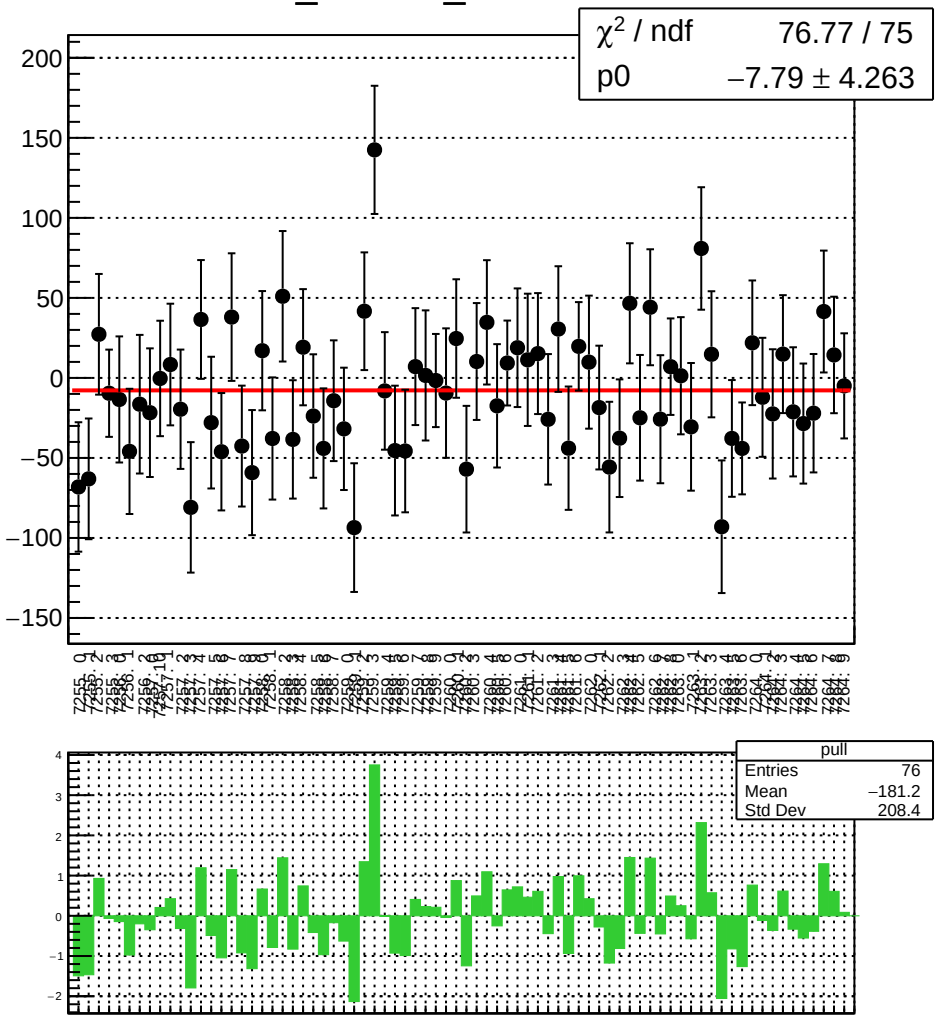

pull1D
Entries 76
Mean −0.01542
Std Dev 1.017

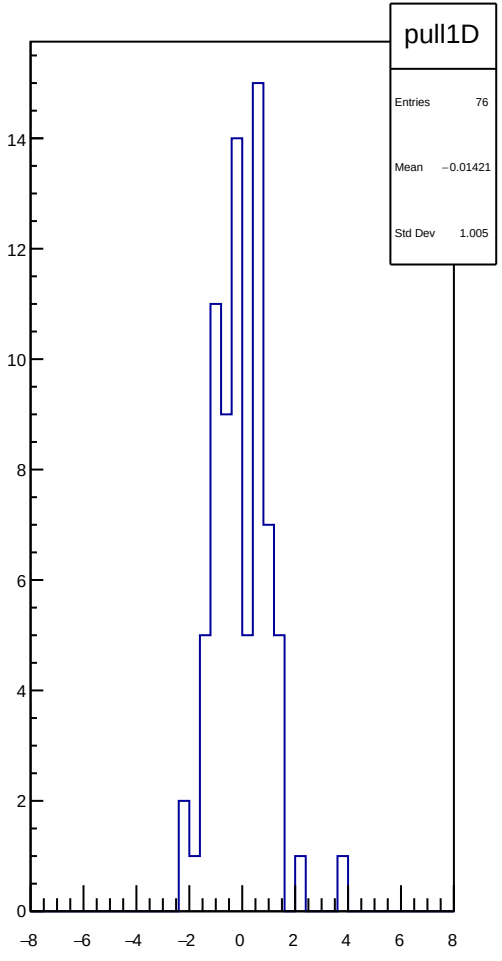

diff_cav4cX_rms vs run
χ² / ndf 2823 / 75
p0 632.7 ± 0.5217
760
740
720
700
680
660
640
620
600
580

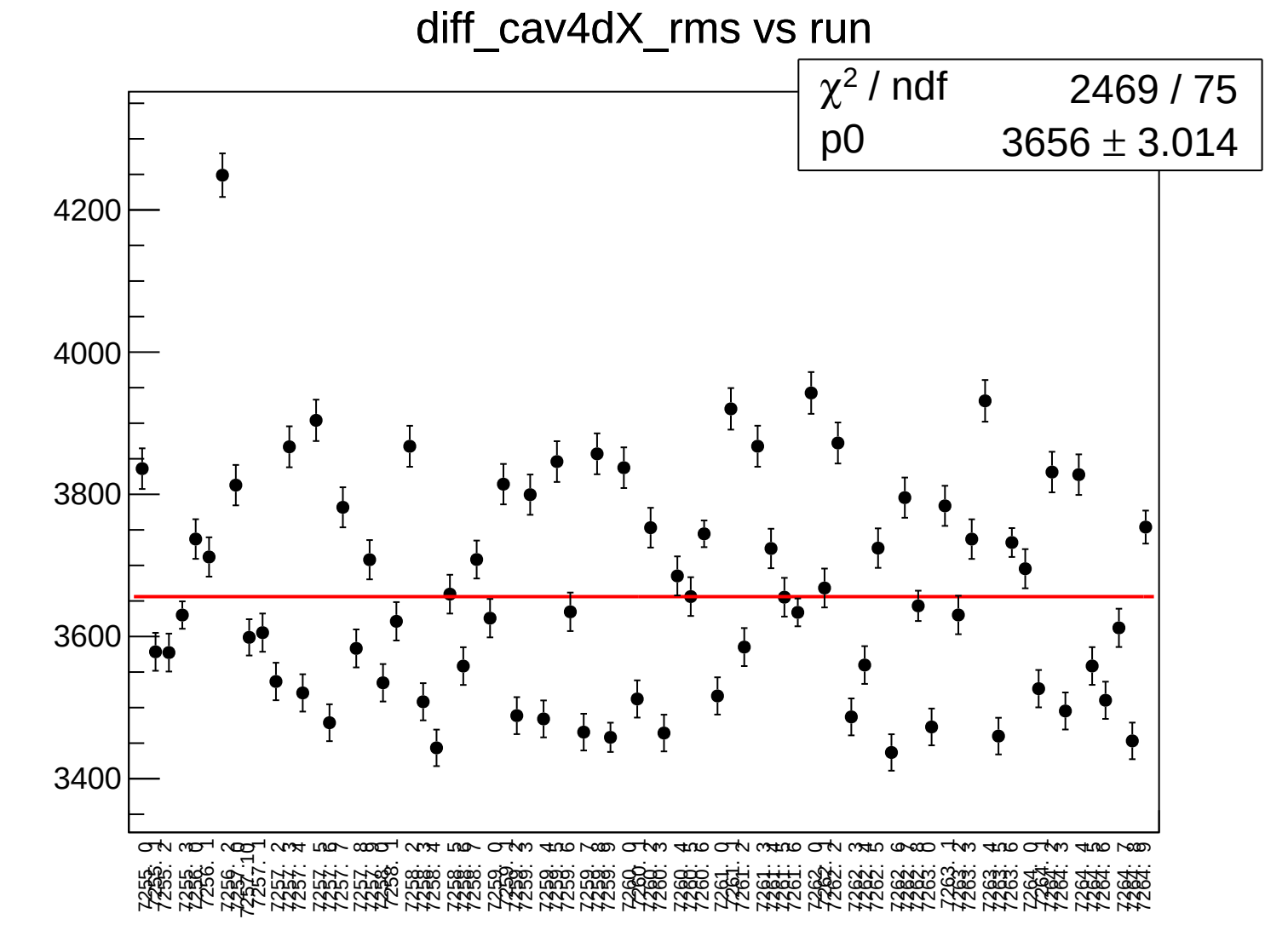

diff_cav4cY_mean vs run
χ^2 / ndf 91.41 / 75
p0 0.2409 ± 0.6317
pull
Entries 76
Mean 211
Std Dev 154.1

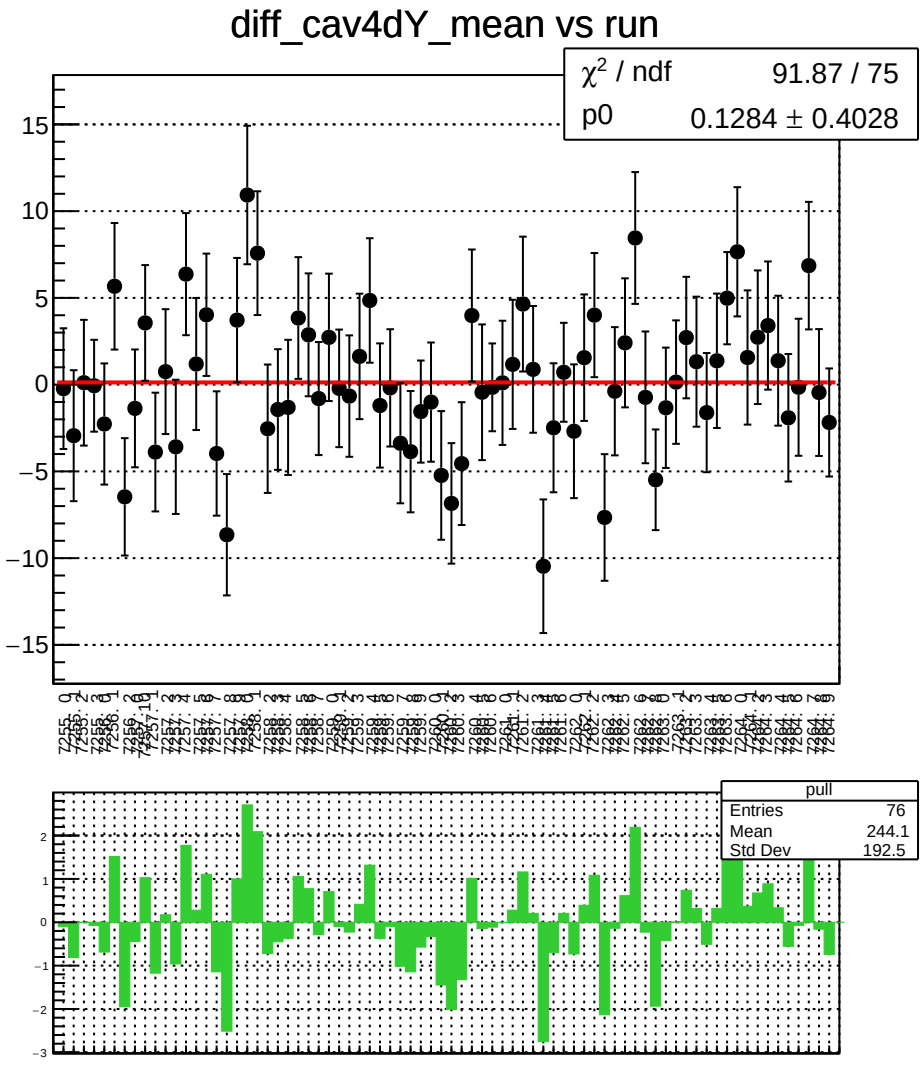

pull1D
Entries 76
Mean 0.01077
Std Dev 1.097

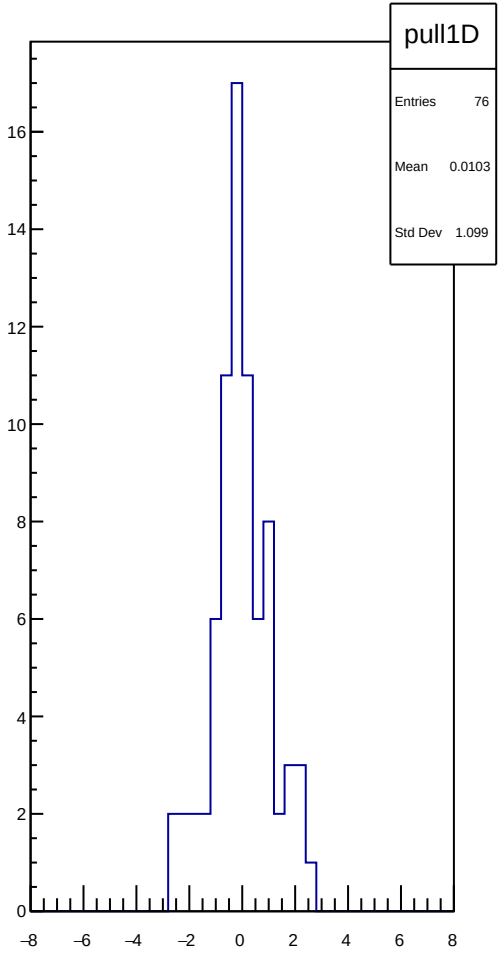

diff_cav4cY_rms vs run
χ² / ndf 2459 / 75
p0 541.8 ± 0.4467
600
580
560
540
520
500

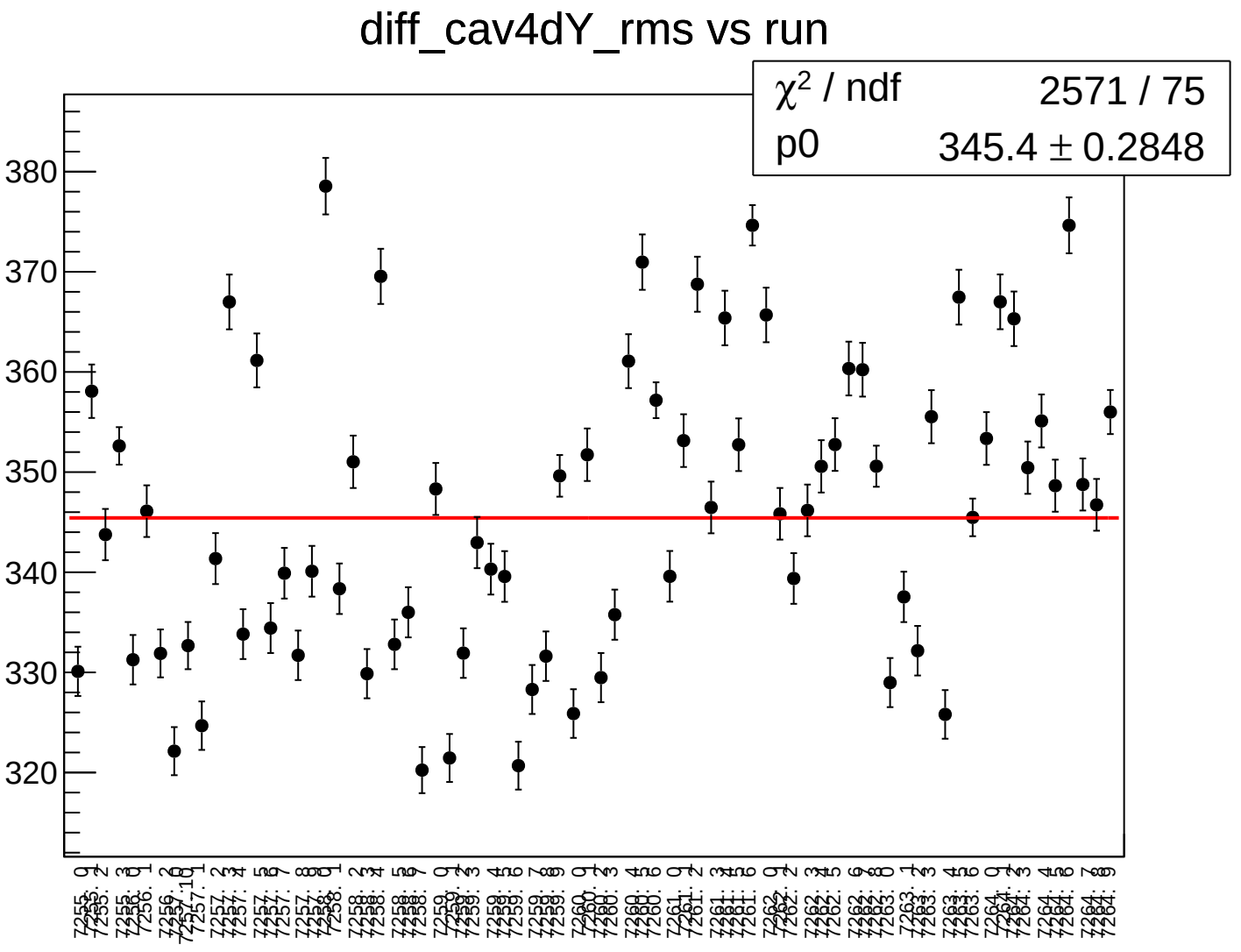

diff_cav4dX_mean vs run
χ^2 / ndf 76.77 / 75
p0 −7.79 ± 4.263
pull
Entries 76
Mean −181.2
Std Dev 208.4

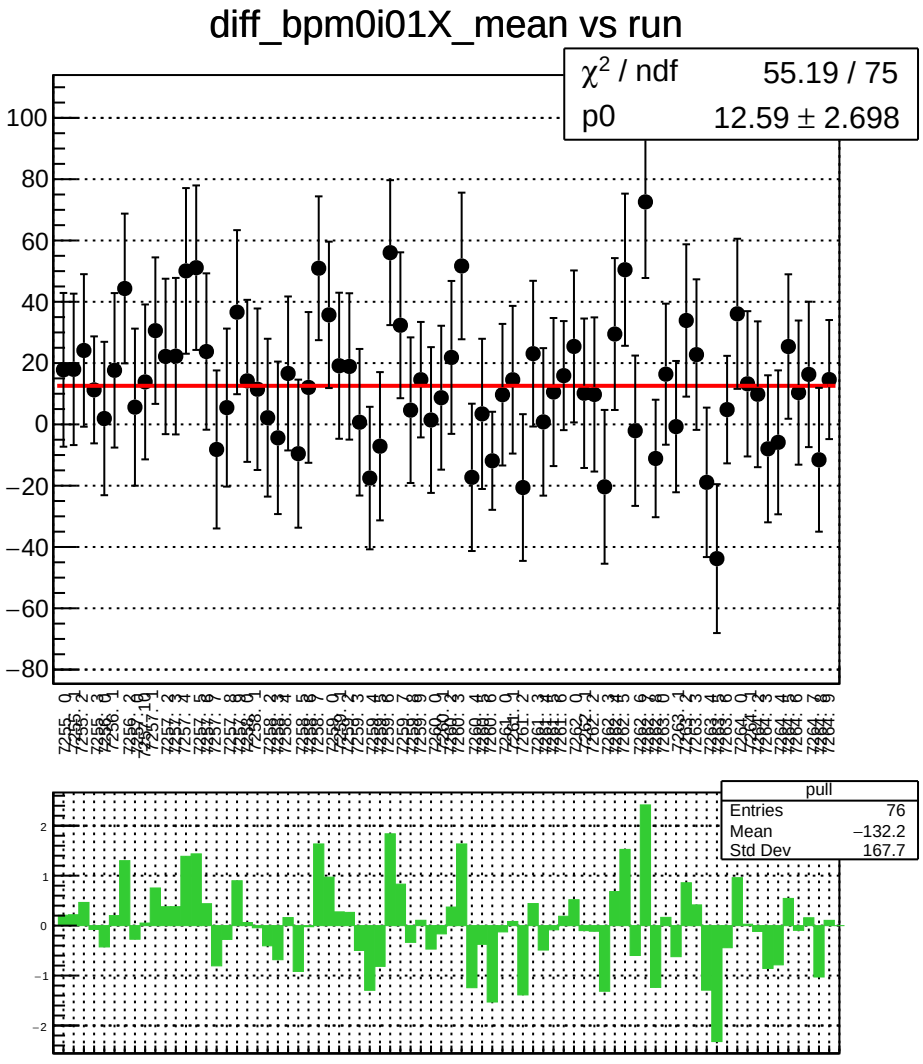

pull1D
Entries 76
Mean −0.01421
Std Dev 1.005

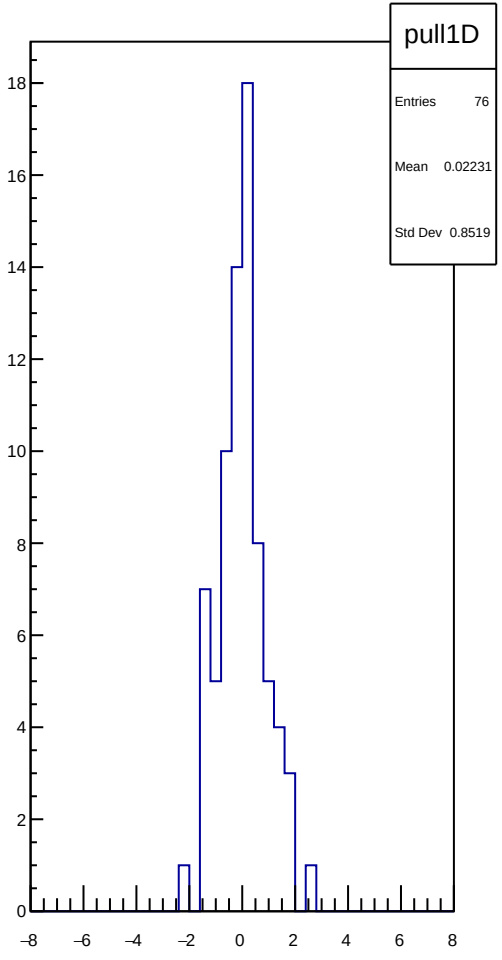

diff_cav4dX_rms vs run
χ² / ndf 2469 / 75
p0 3656 ± 3.014
4200
4000
3800
3600
3400

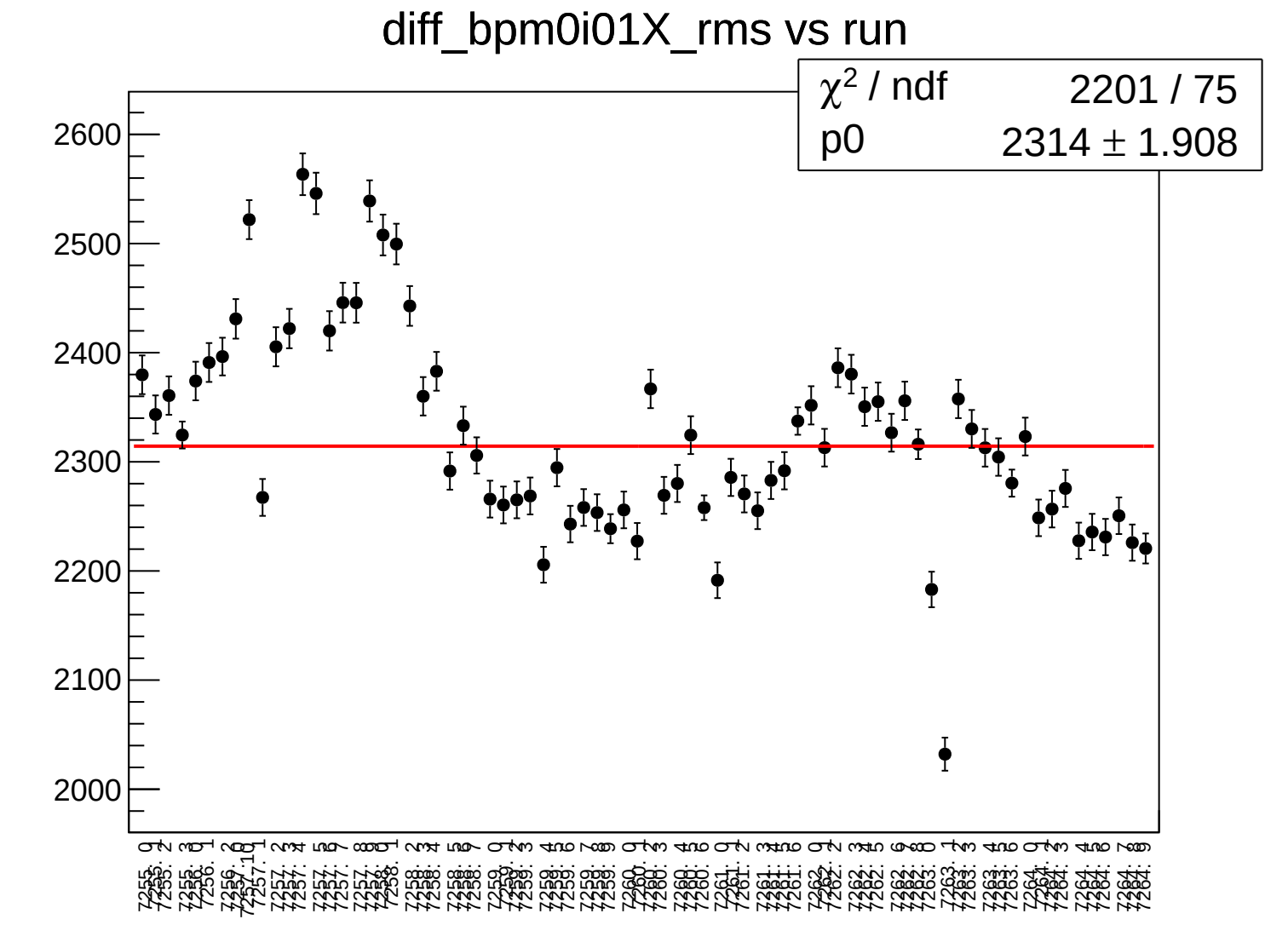

diff_cav4dY_mean vs run
χ² / ndf 91.87 / 75
p0 0.1284 ± 0.4028
pull
Entries 76
Mean 244.1
Std Dev 192.5

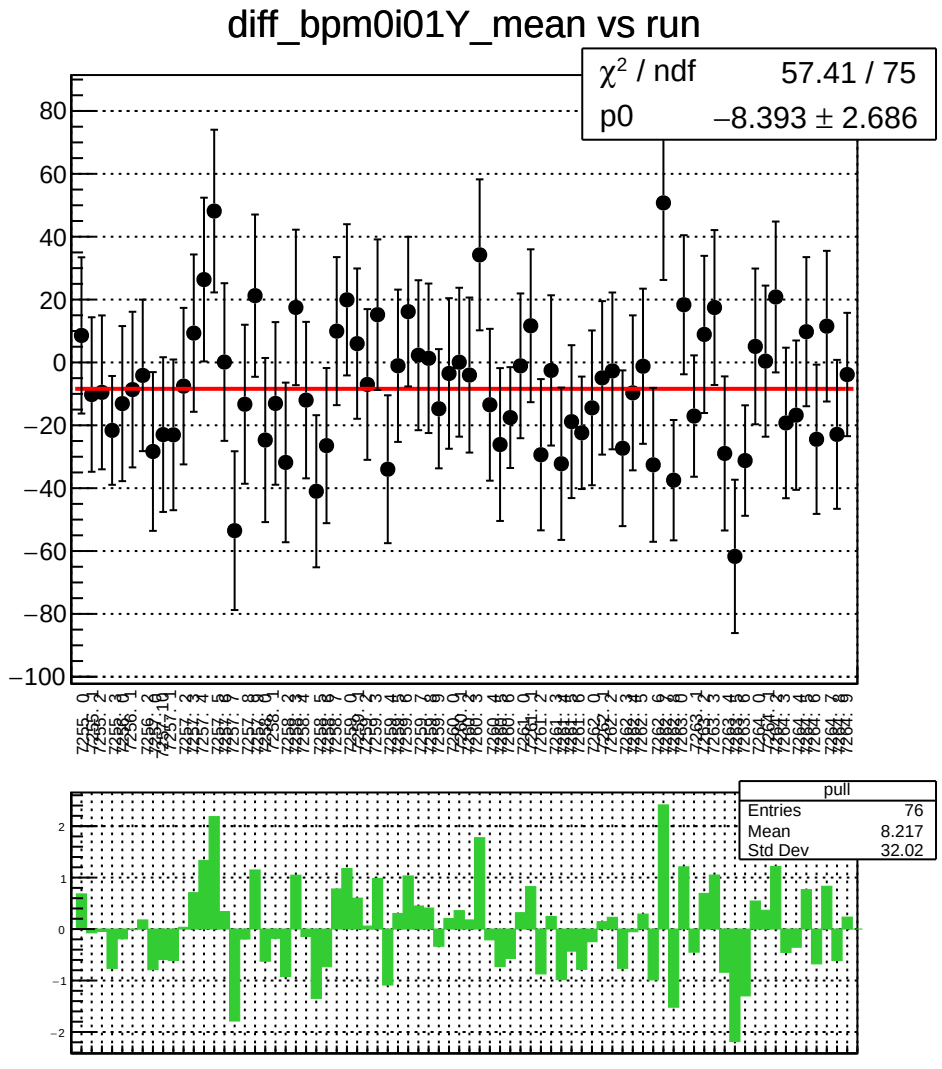

pull1D
Entries 76
Mean 0.0103
Std Dev 1.099

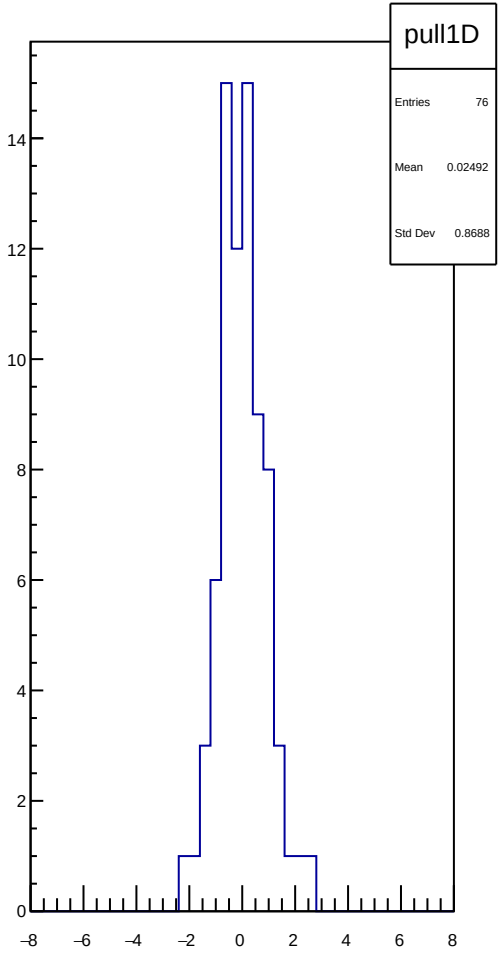

diff_cav4dY_rms vs run
χ² / ndf 2571 / 75
p0 345.4 ± 0.2848
380
370
360
350
340
330
320

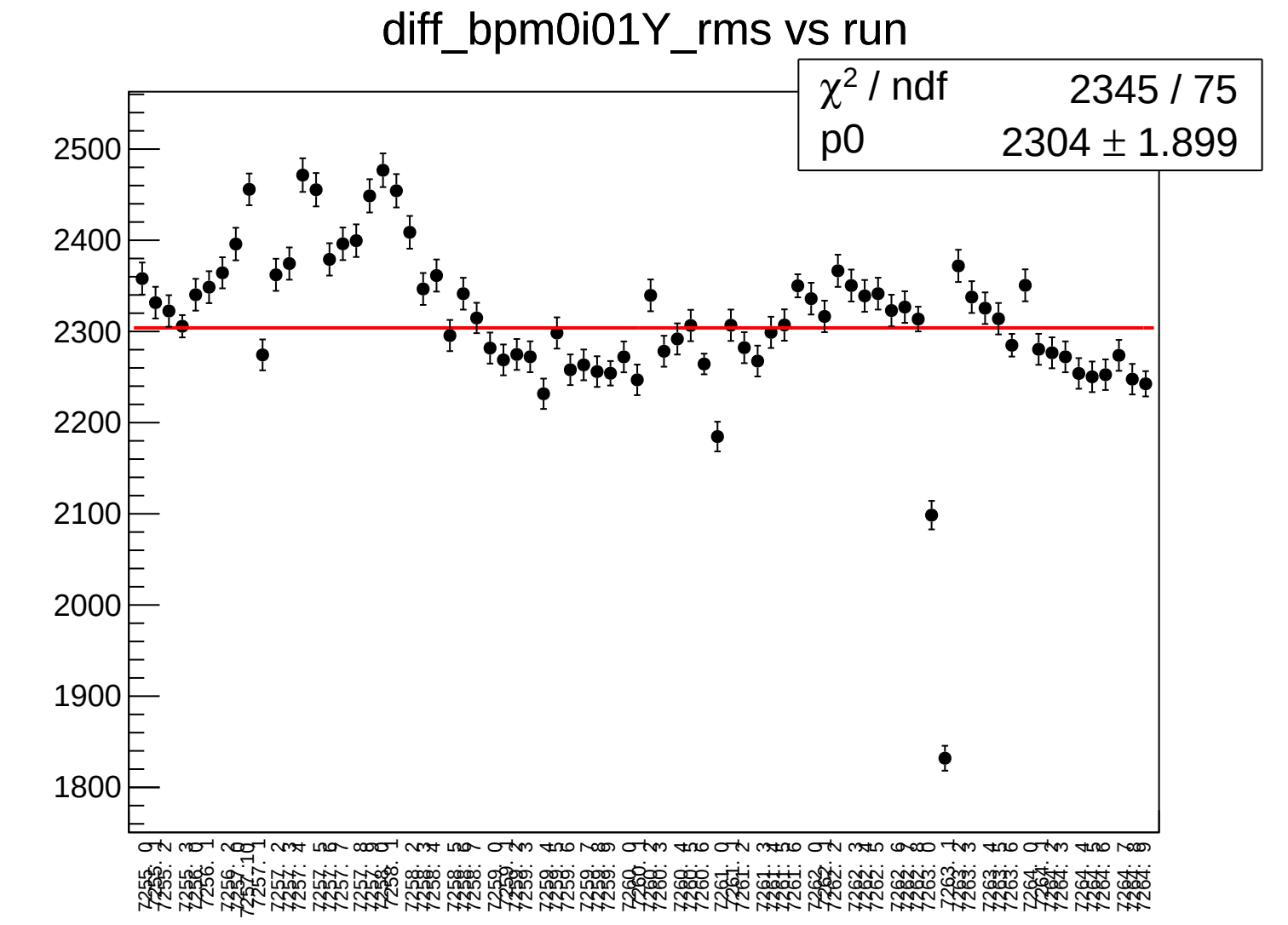

diff_bpm0i01X_mean vs run
χ^2 / ndf 55.19 / 75
p0 12.59 ± 2.698
pull
Entries 76
Mean −132.2
Std Dev 167.7

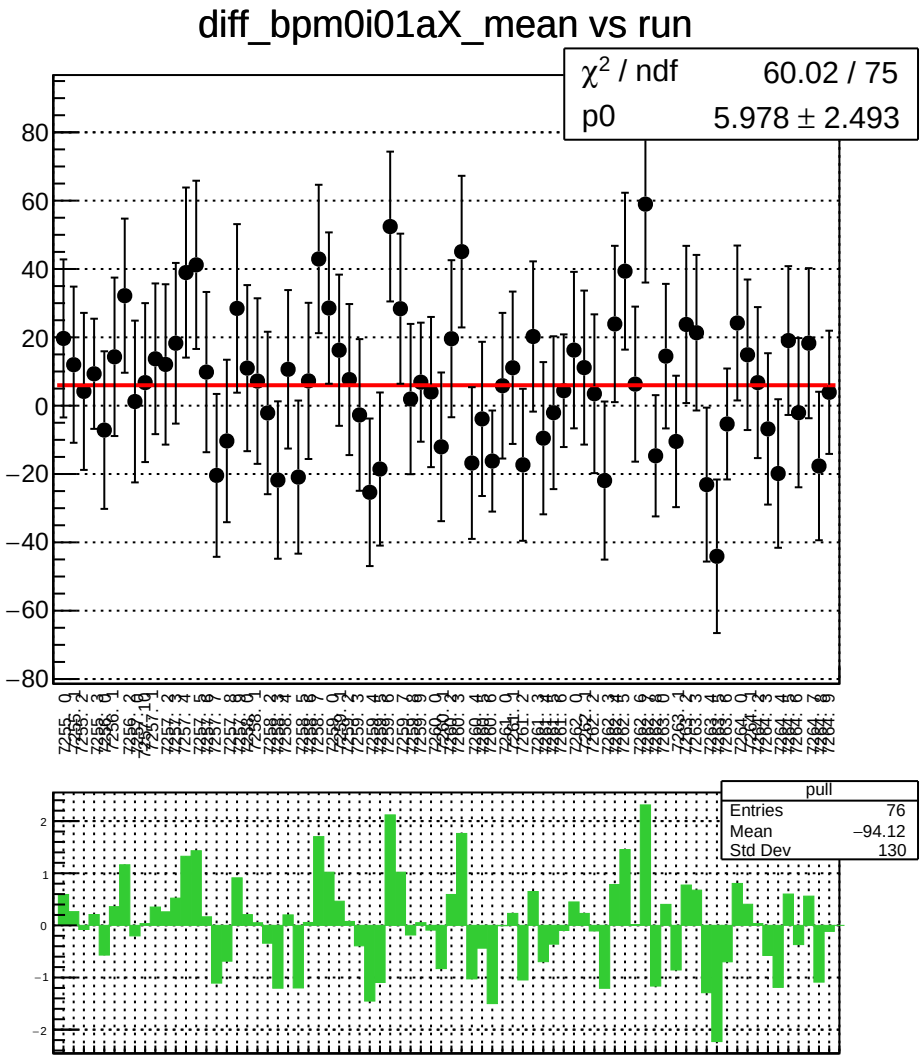

pull1D
Entries 76
Mean 0.02231
Std Dev 0.8519

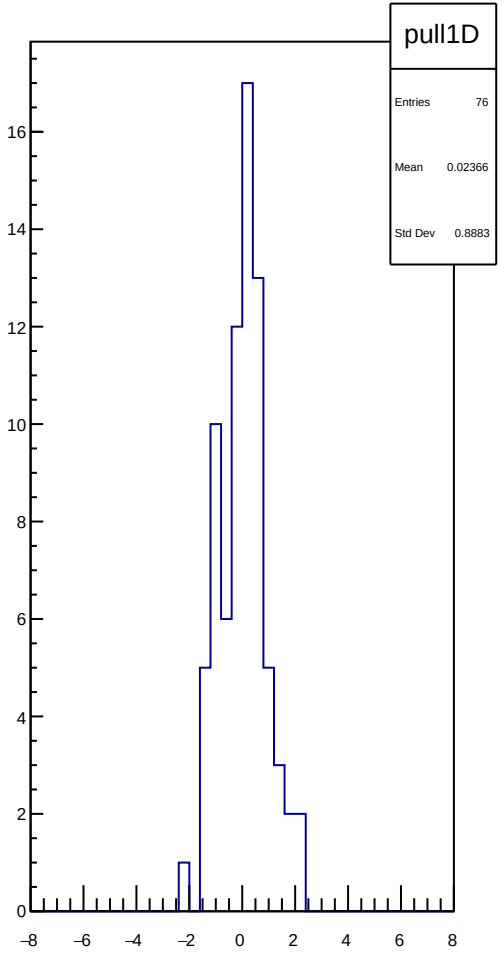

diff_bpm0i01X_rms vs run
χ² / ndf 2201 / 75
p0 2314 ± 1.908
2600
2500
2400
2300
2200
2100
2000

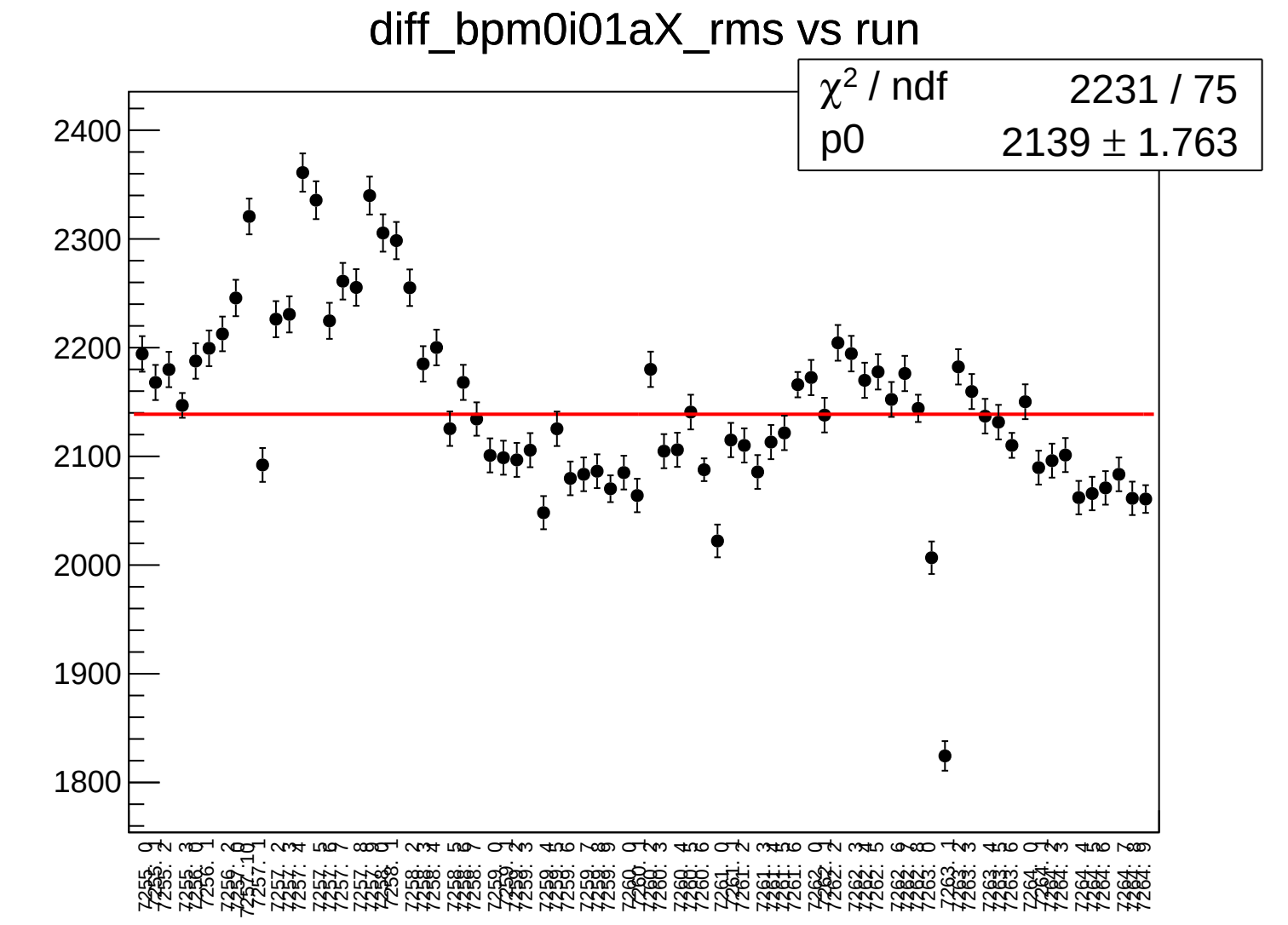

diff_bpm0i01Y_mean vs run
χ² / ndf 57.41 / 75
p0 −8.393 ± 2.686
pull
Entries 76
Mean 8.217
Std Dev 32.02

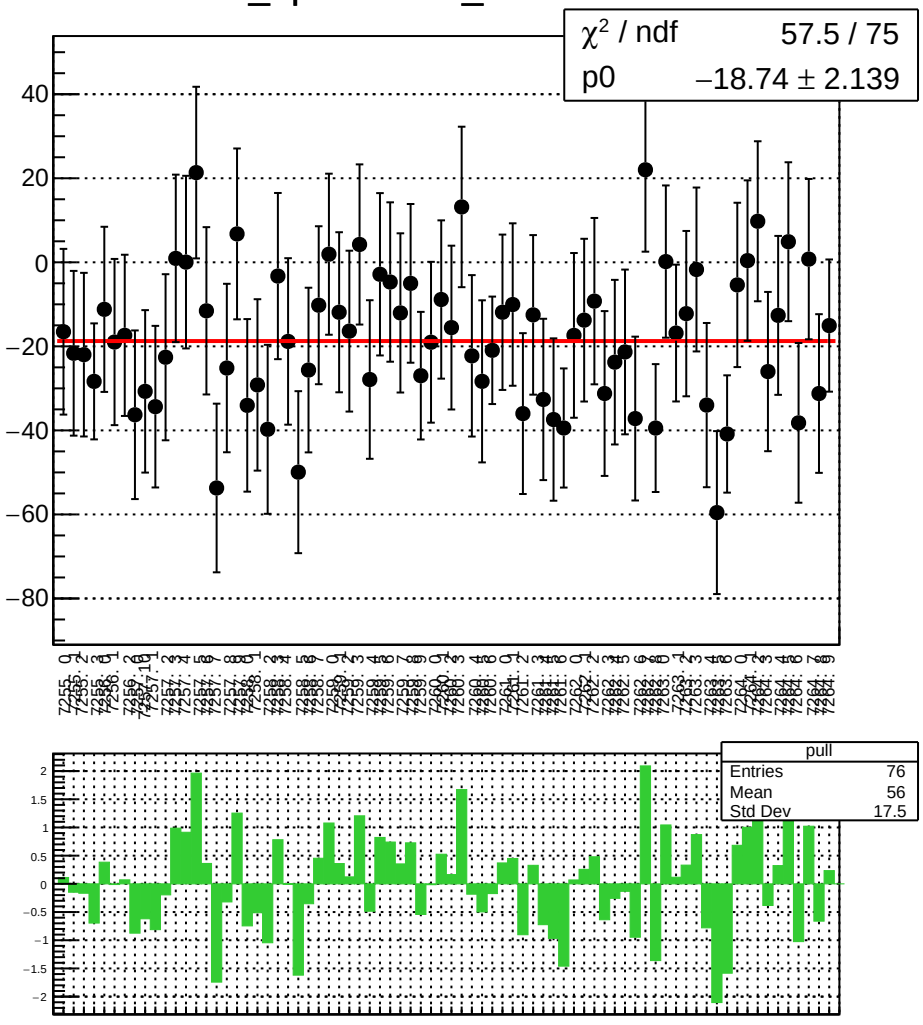

pull1D
Entries 76
Mean 0.02492
Std Dev 0.8688

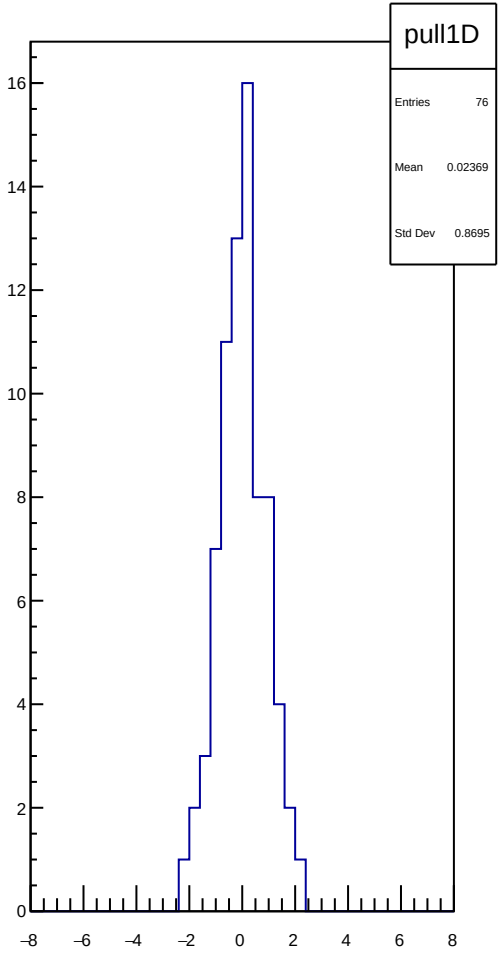

diff_bpm0i01Y_rms vs run
χ² / ndf 2345 / 75
p0 2304 ± 1.899
2500
2400
2300
2200
2100
2000
1900
1800

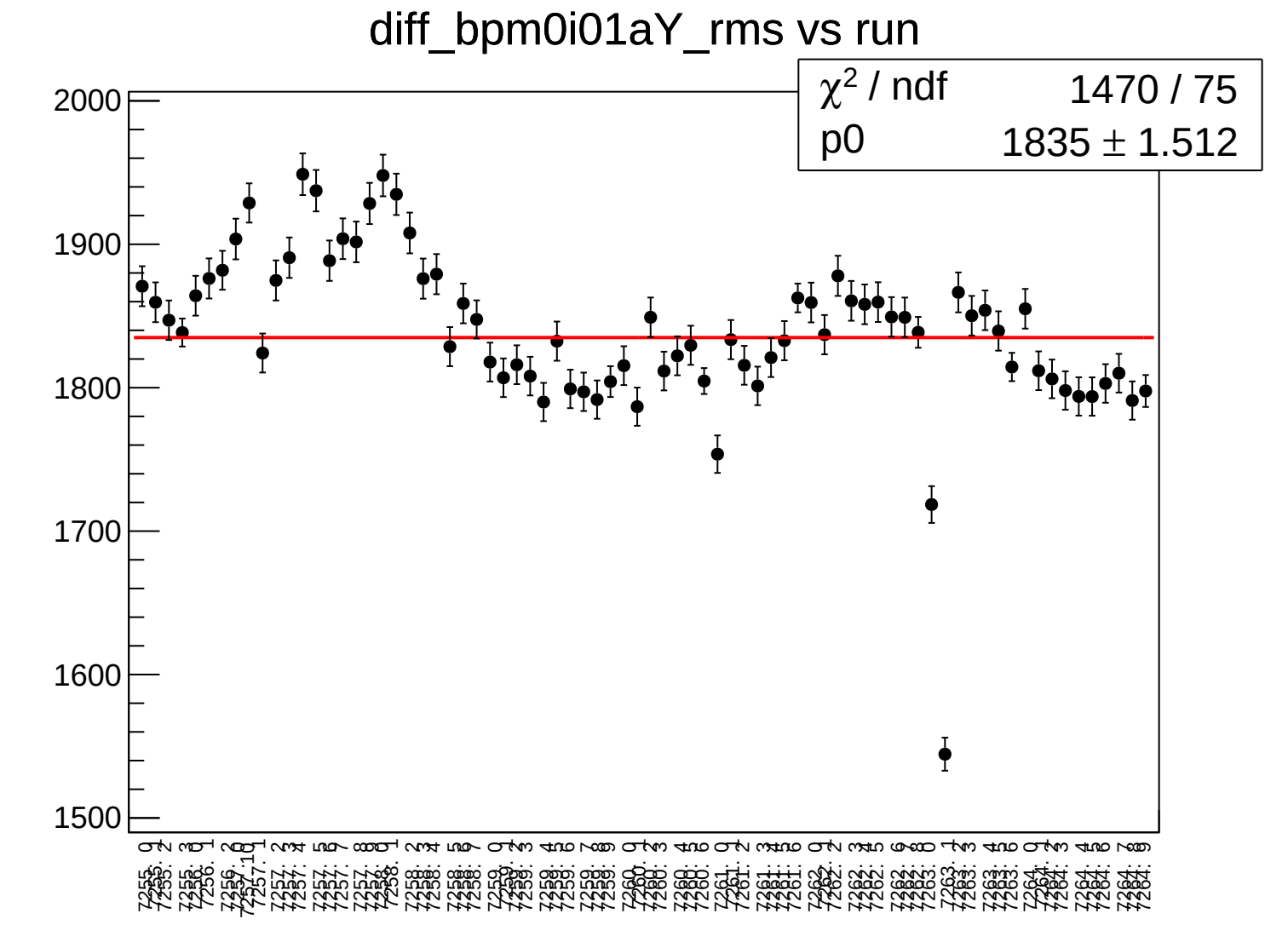

diff_bpm0i01aX_mean vs run
χ² / ndf 60.02 / 75
p0 5.978 ± 2.493
pull
Entries 76
Mean −94.12
Std Dev 130

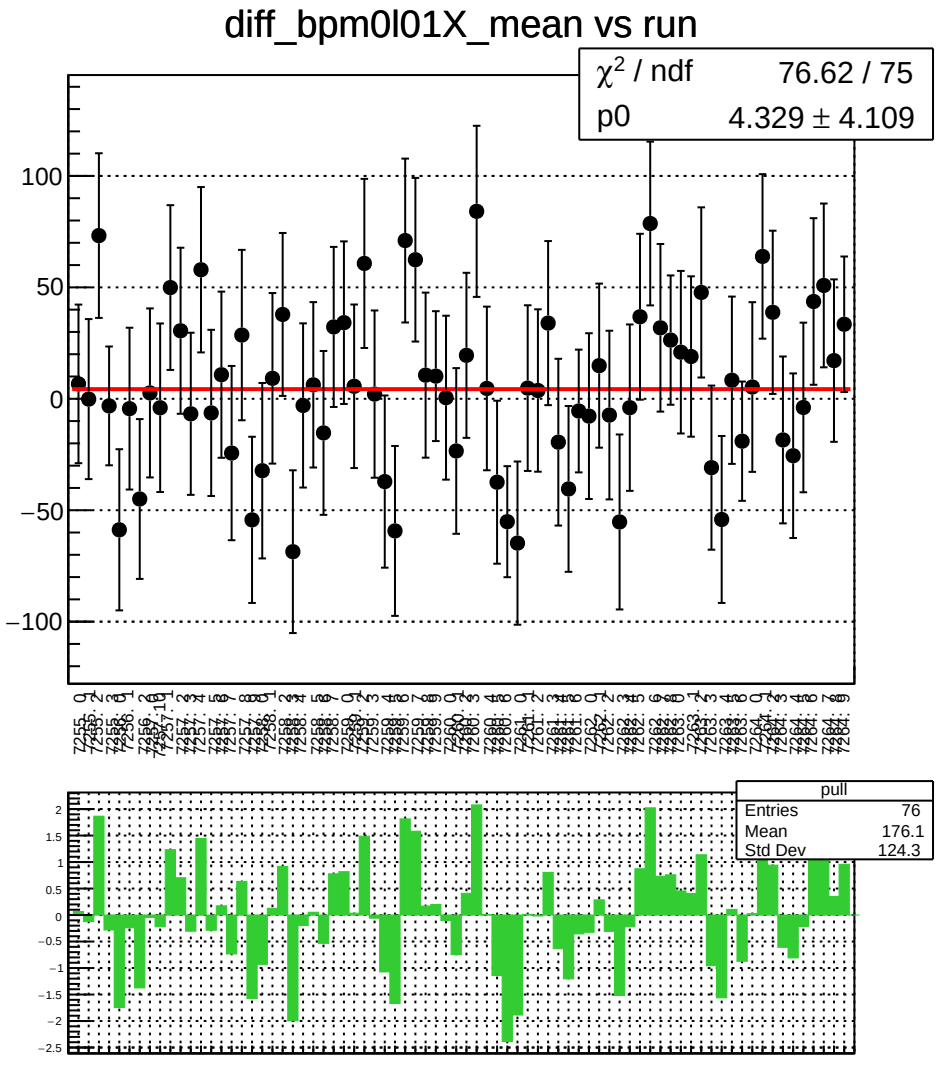

pull1D
Entries 76
Mean 0.02366
Std Dev 0.8883

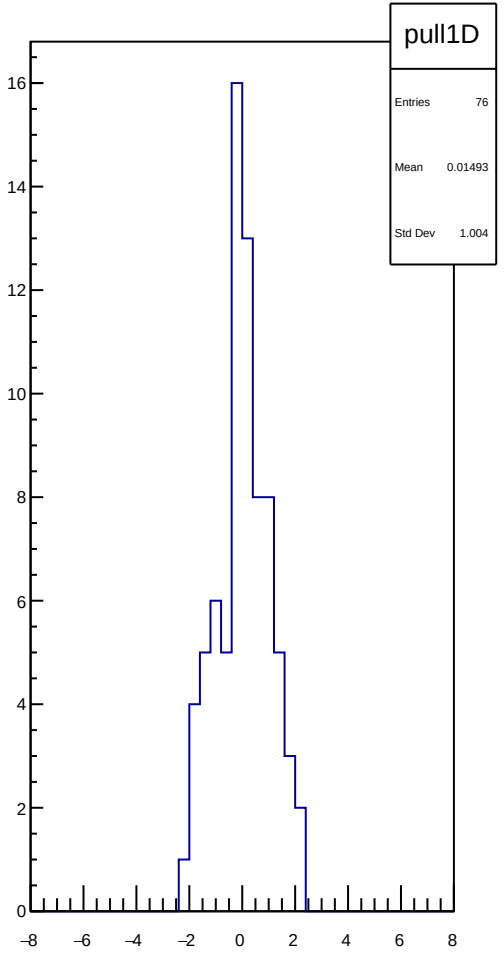

diff_bpm0i01aX_rms vs run
χ² / ndf 2231 / 75
p0 2139 ± 1.763
2400
2300
2200
2100
2000
1900
1800

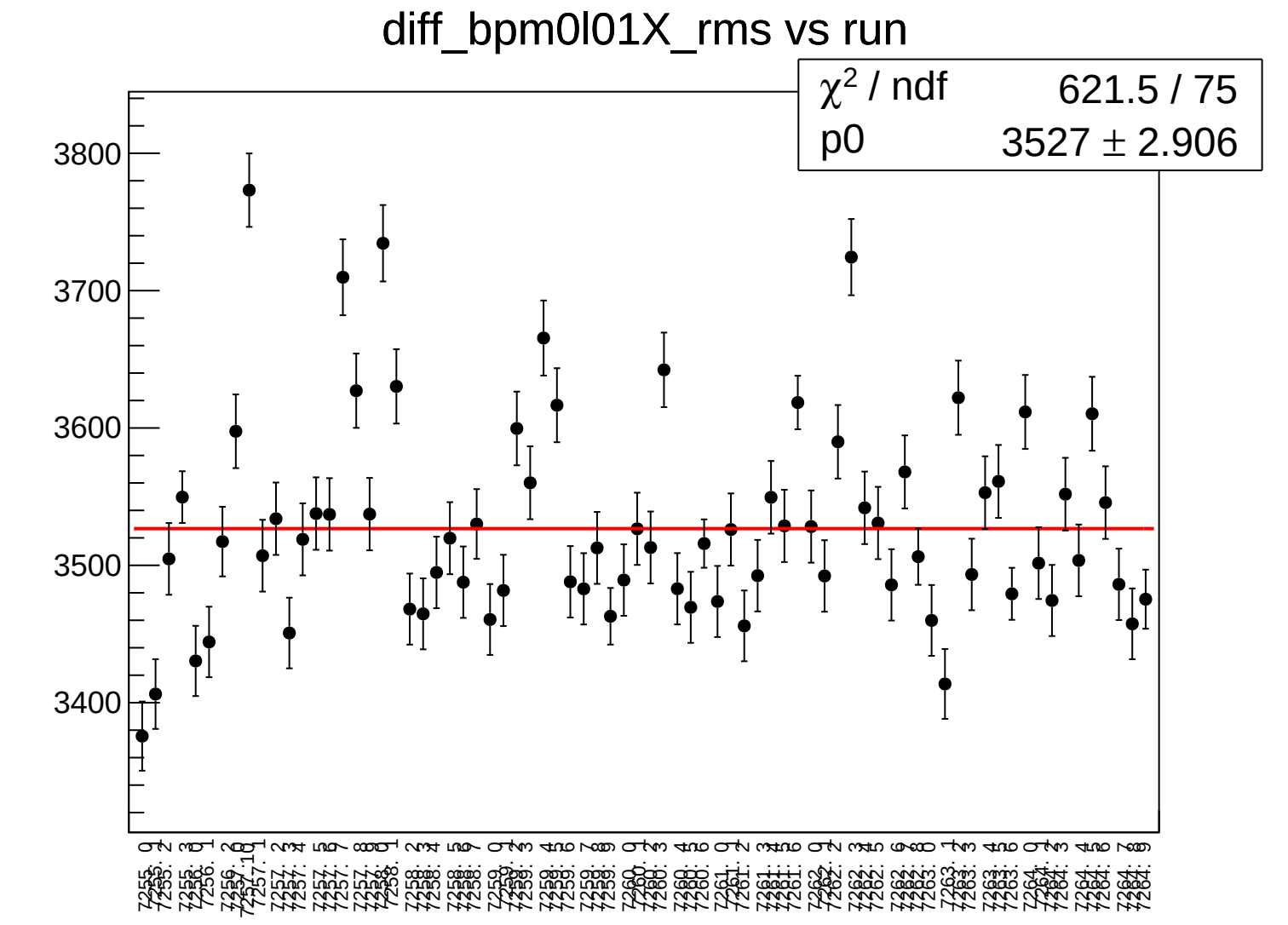

diff_bpm0i01aY_mean vs run
χ² / ndf 57.5 / 75
p0 −18.74 ± 2.139
pull
Entries 76
Mean 56
Std Dev 17.5

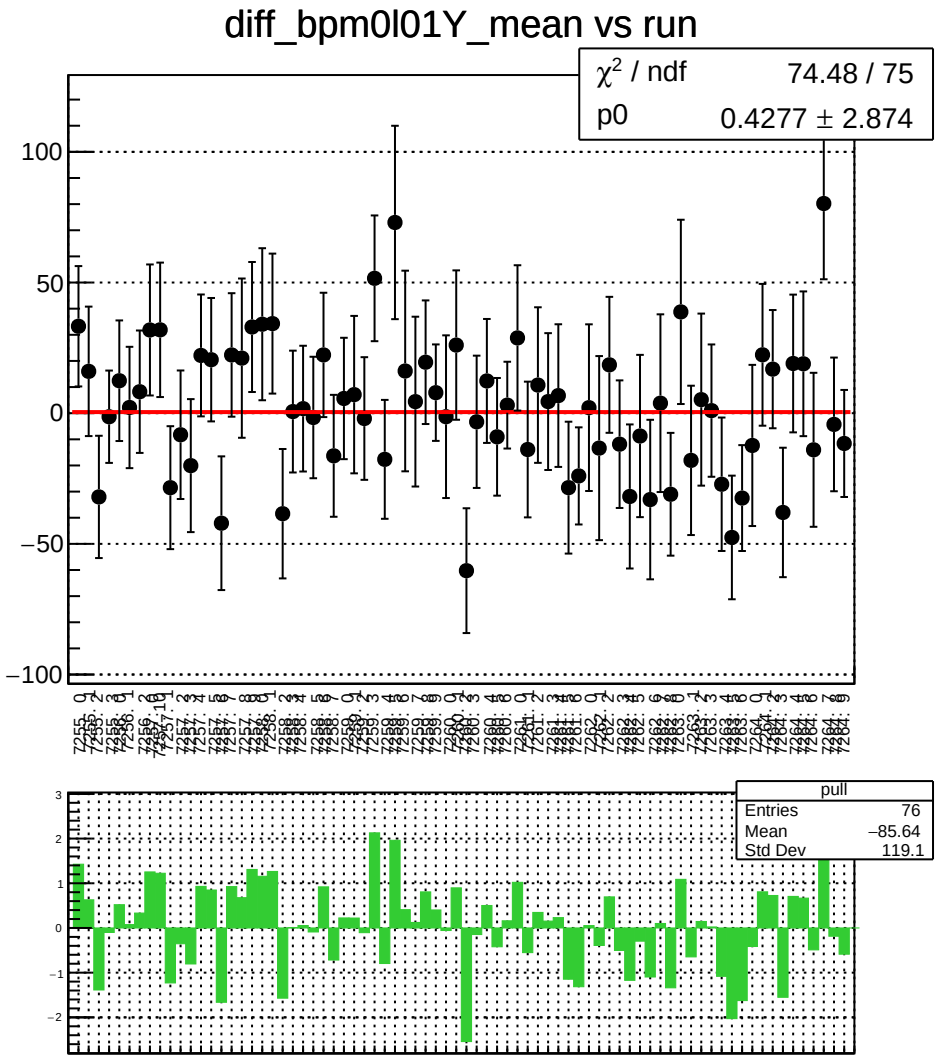

pull1D
Entries 76
Mean 0.02369
Std Dev 0.8695

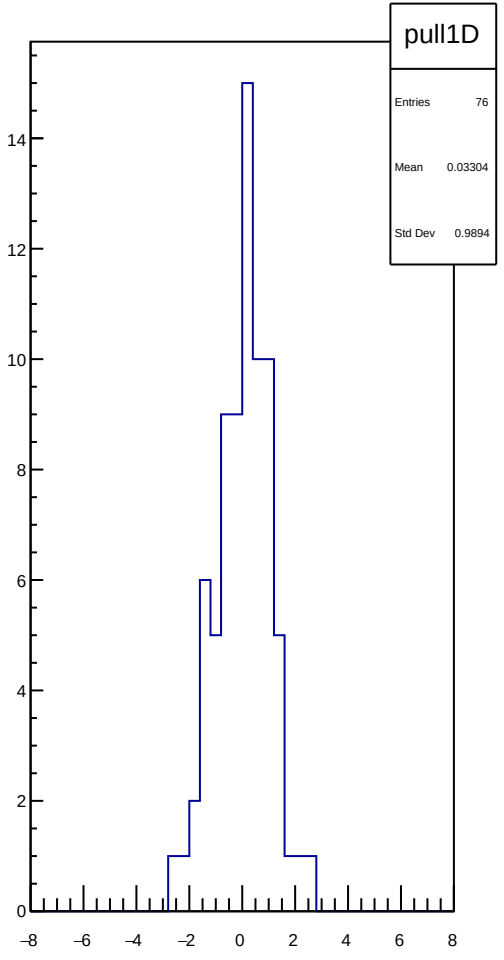

diff_bpm0i01aY_rms vs run
χ² / ndf 1470 / 75
p0 1835 ± 1.512
2000
1900
1800
1700
1600
1500

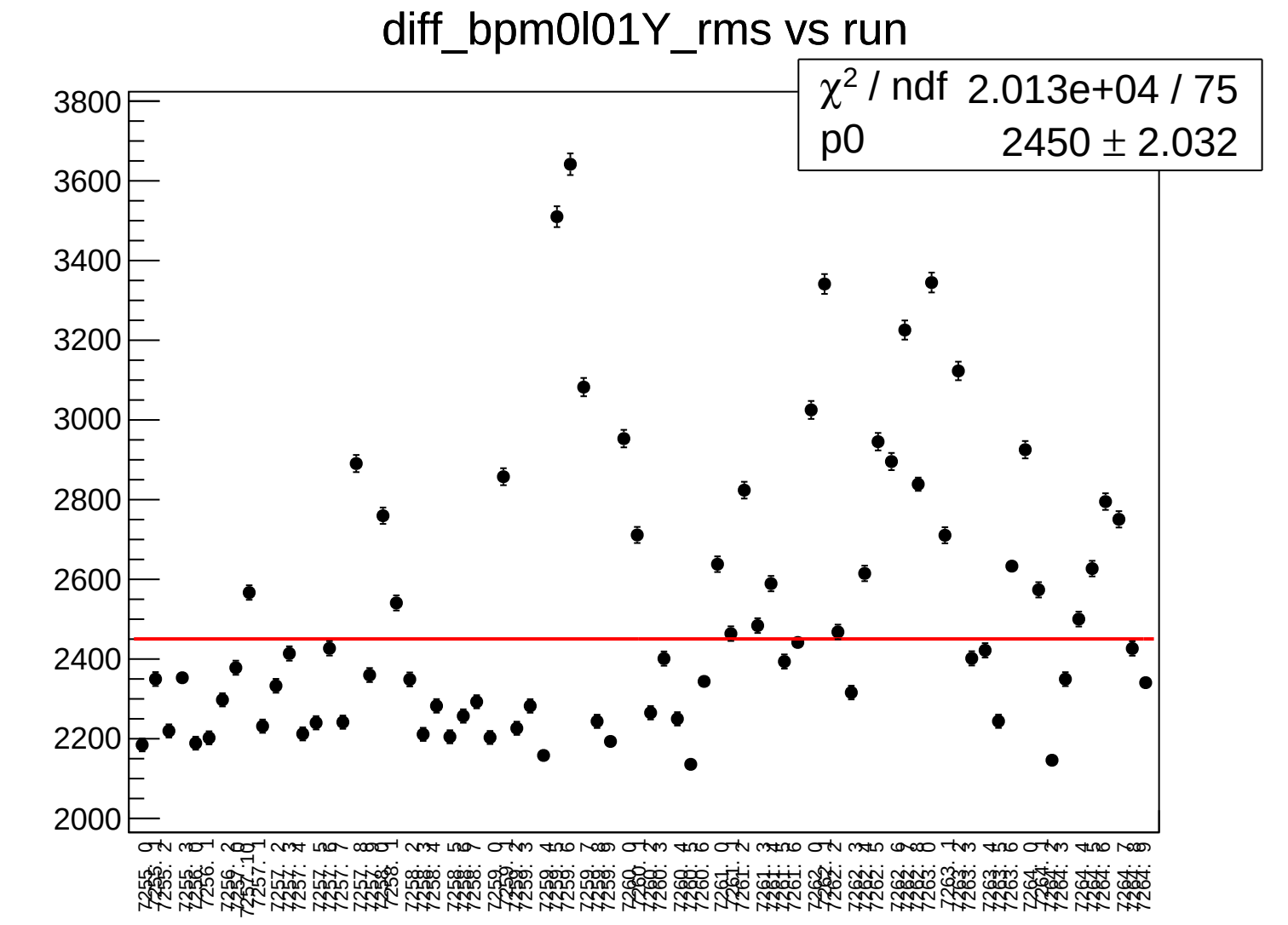

diff_bpm0l01X_mean vs run
χ^2 / ndf 76.62 / 75
p0 4.329 ± 4.109
pull
Entries 76
Mean 176.1
Std Dev 124.3

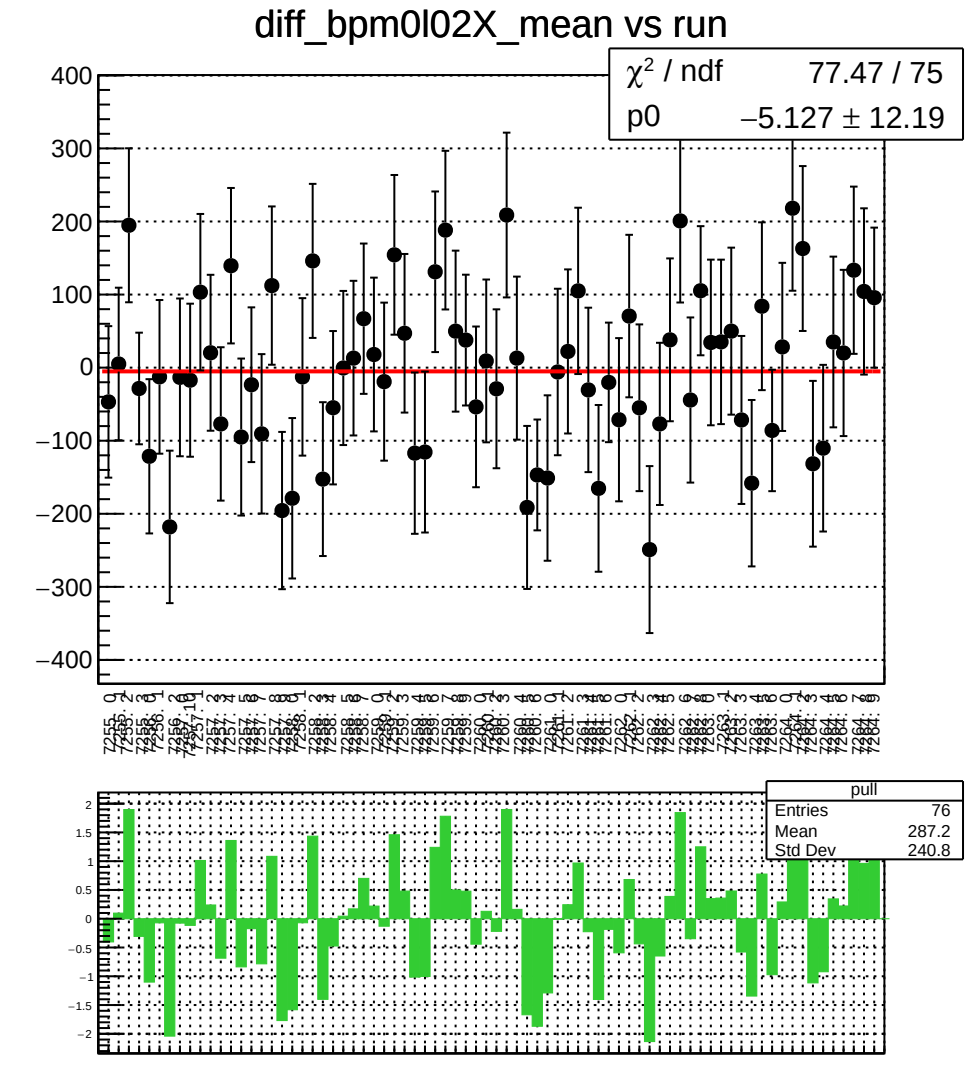

pull1D
Entries 76
Mean 0.01493
Std Dev 1.004

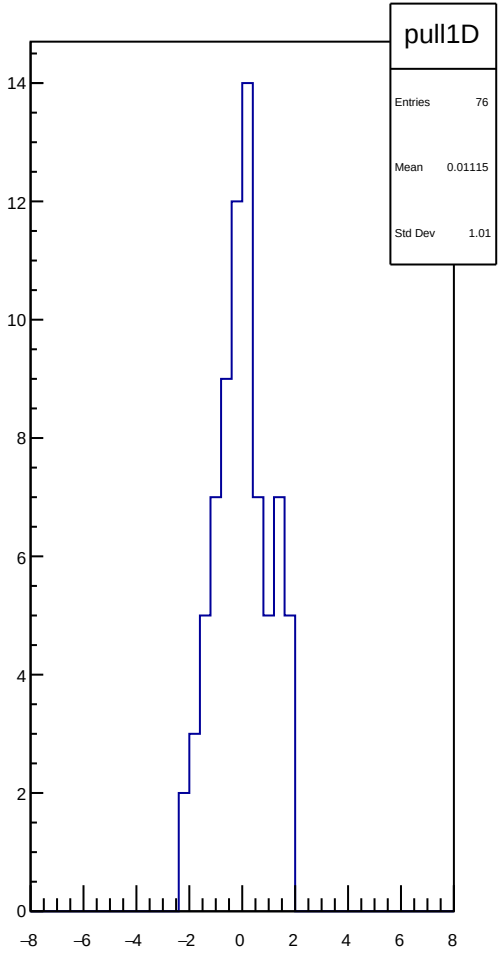

diff_bpm0l01X_rms vs run
χ² / ndf 621.5 / 75
p0 3527 ± 2.906
3800
3700
3600
3500
3400

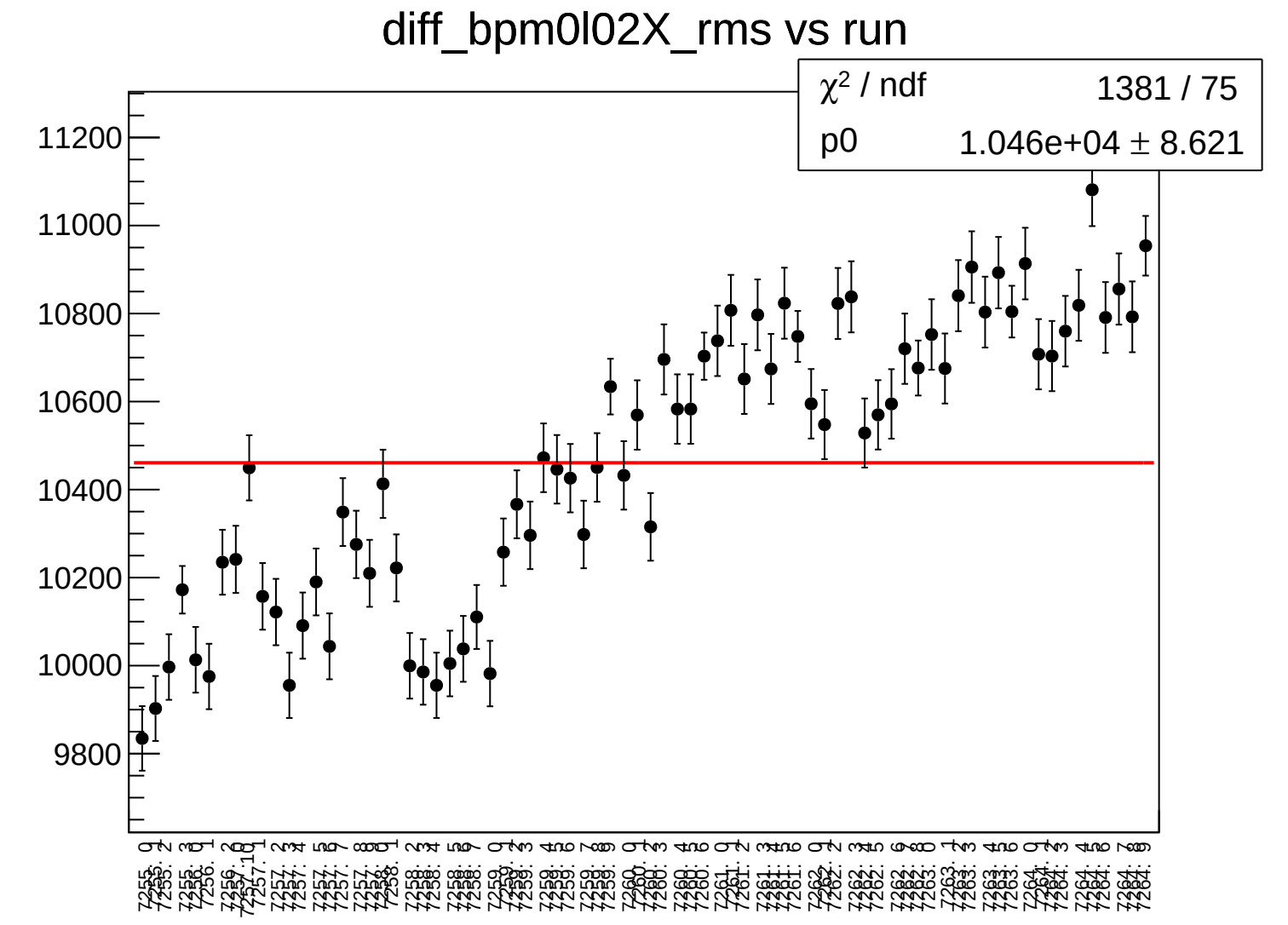

diff_bpm0l01Y_mean vs run
χ² / ndf 74.48 / 75
p0 0.4277 ± 2.874
pull
Entries 76
Mean −85.64
Std Dev 119.1

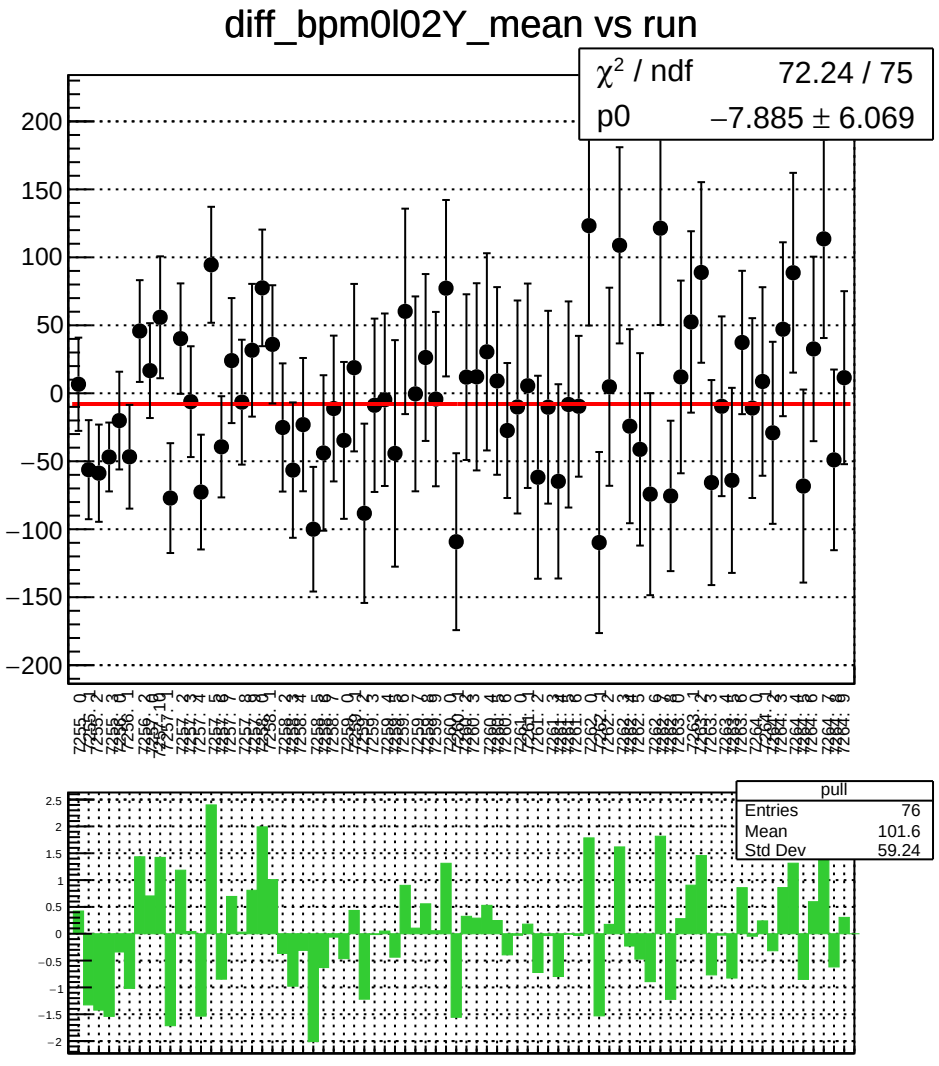

pull1D
Entries 76
Mean 0.03304
Std Dev 0.9894

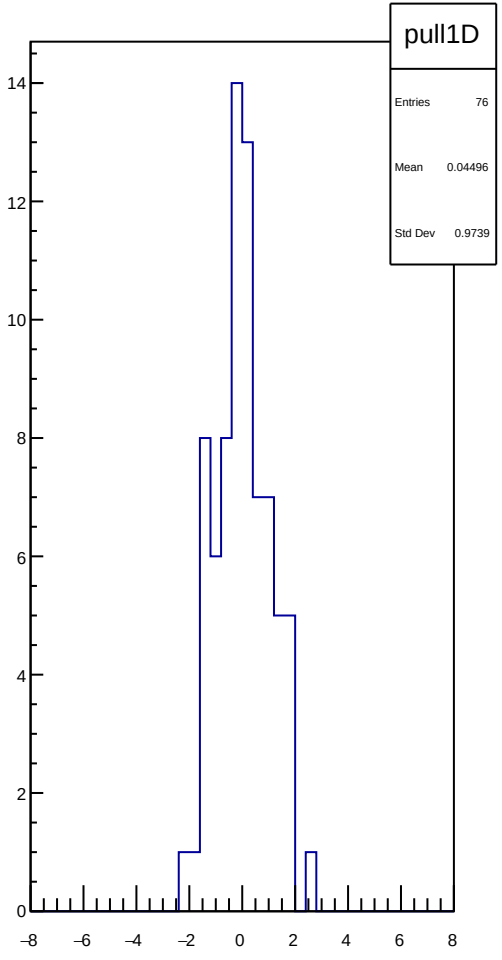

diff_bpm0l01Y_rms vs run
χ² / ndf 2.013e+04 / 75
p0 2450 ± 2.032
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000

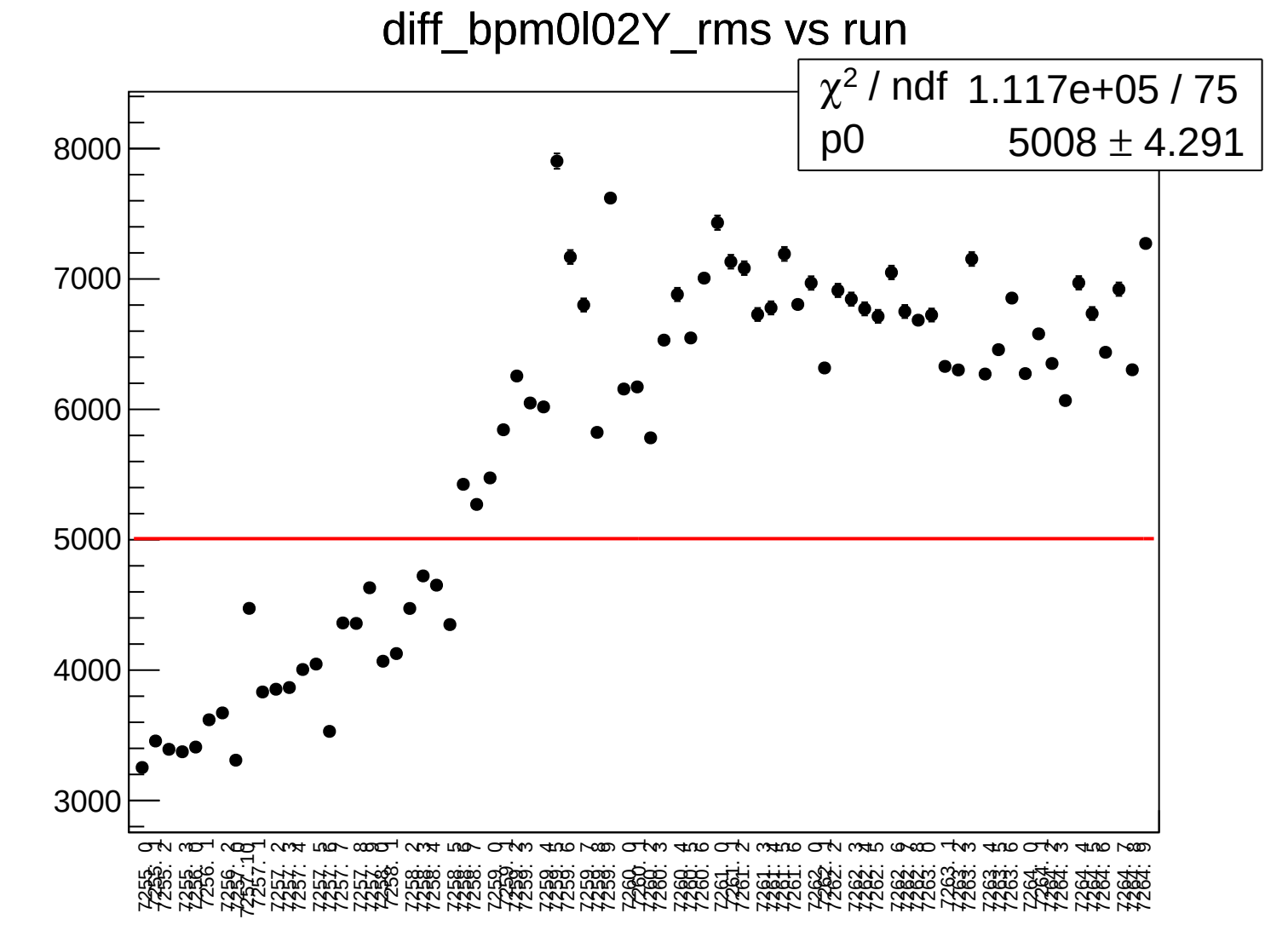

diff_bpm0l02X_mean vs run
χ² / ndf 77.47 / 75
p0 −5.127 ± 12.19
pull
Entries 76
Mean 287.2
Std Dev 240.8

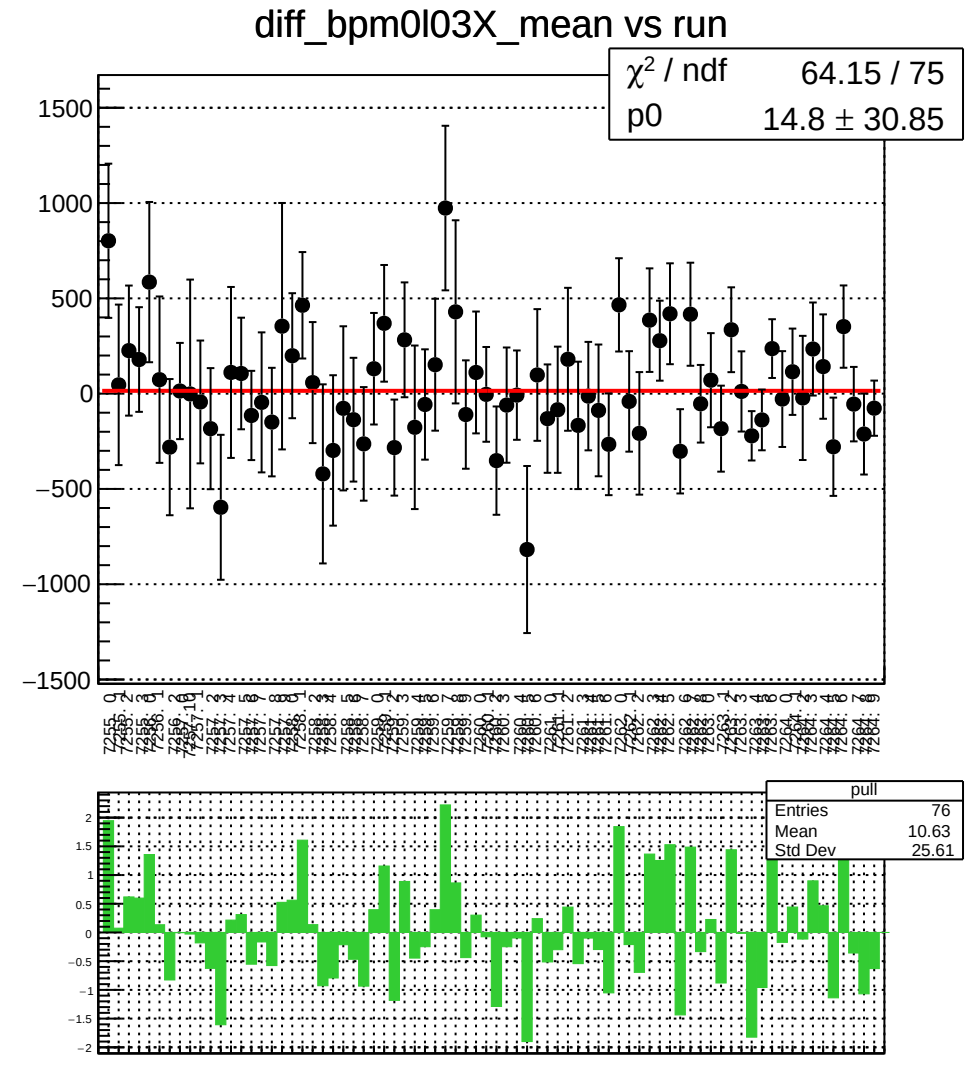

pull1D
Entries 76
Mean 0.01115
Std Dev 1.01

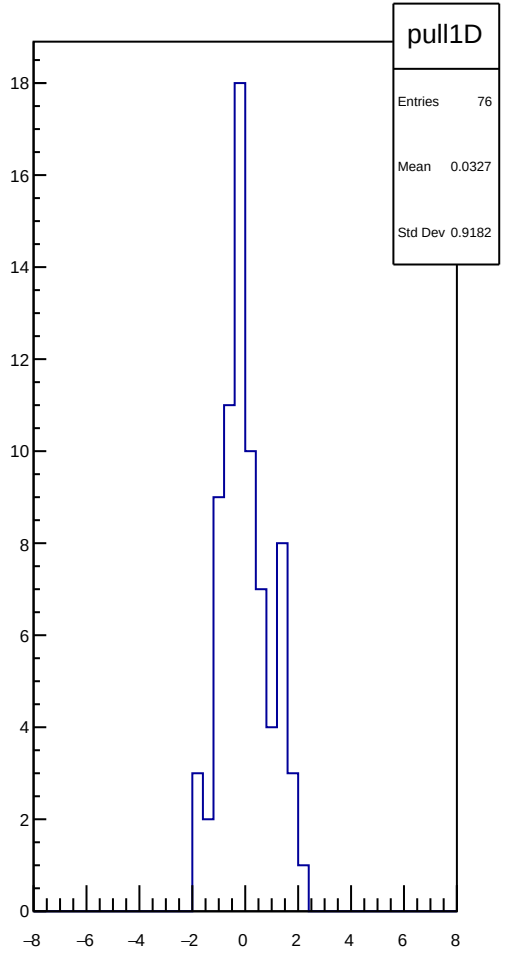

diff_bpm0l02X_rms vs run
χ² / ndf 1381 / 75
p0 1.046e+04 ± 8.621
11200
11000
10800
10600
10400
10200
10000
9800

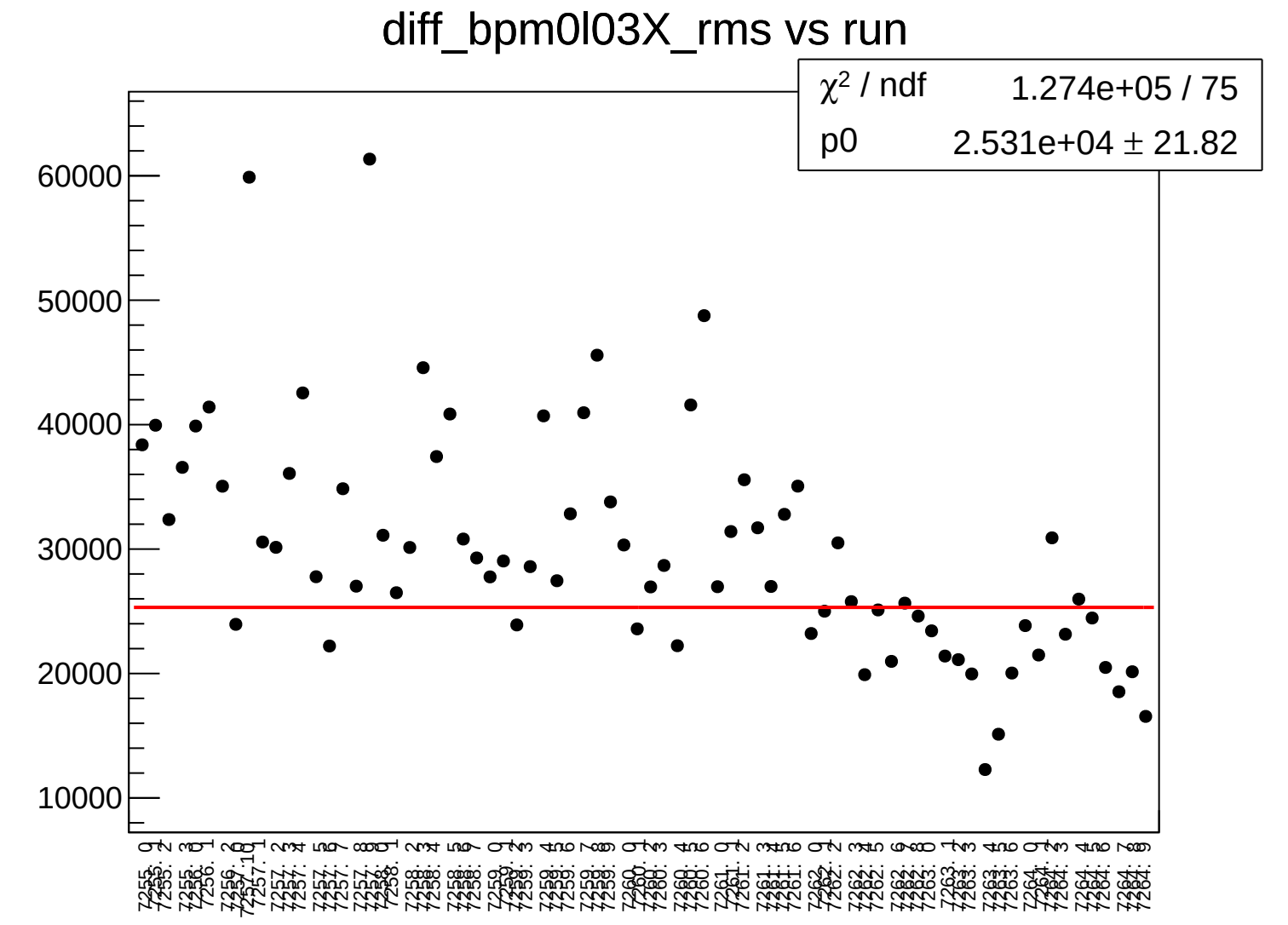

diff_bpm0l02Y_mean vs run
χ² / ndf 72.24 / 75
p0 −7.885 ± 6.069
pull
Entries 76
Mean 101.6
Std Dev 59.24

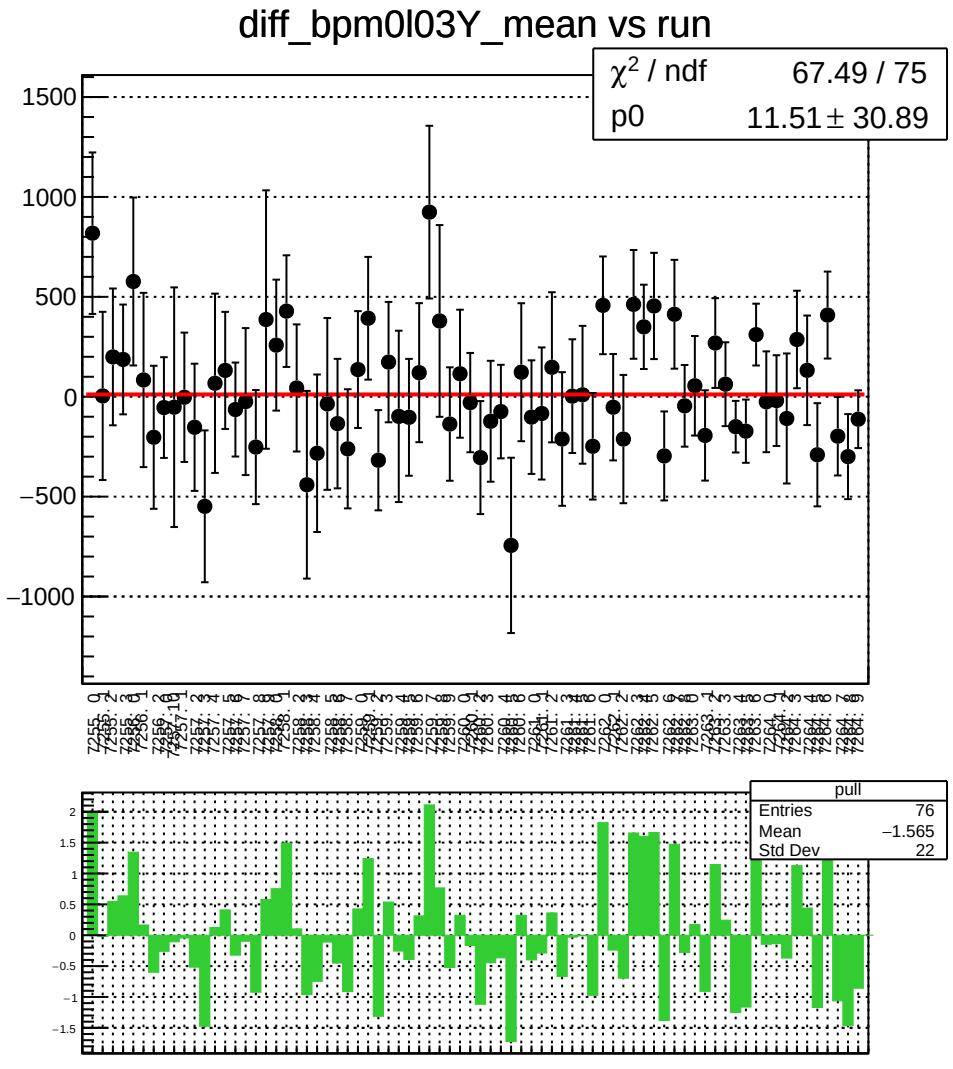

pull1D
Entries 76
Mean 0.04496
Std Dev 0.9739

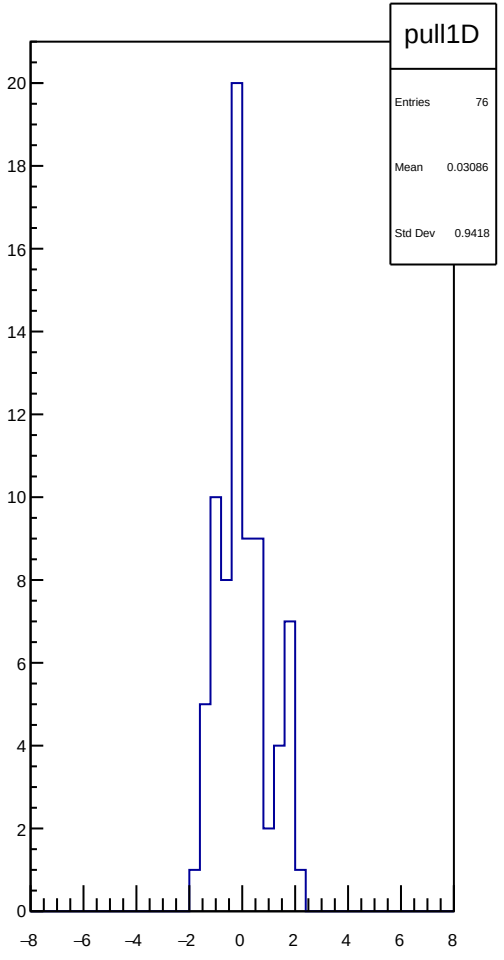

diff_bpm0l02Y_rms vs run
χ² / ndf 1.117e+05 / 75
p0 5008 ± 4.291
8000
7000
6000
5000
4000
3000

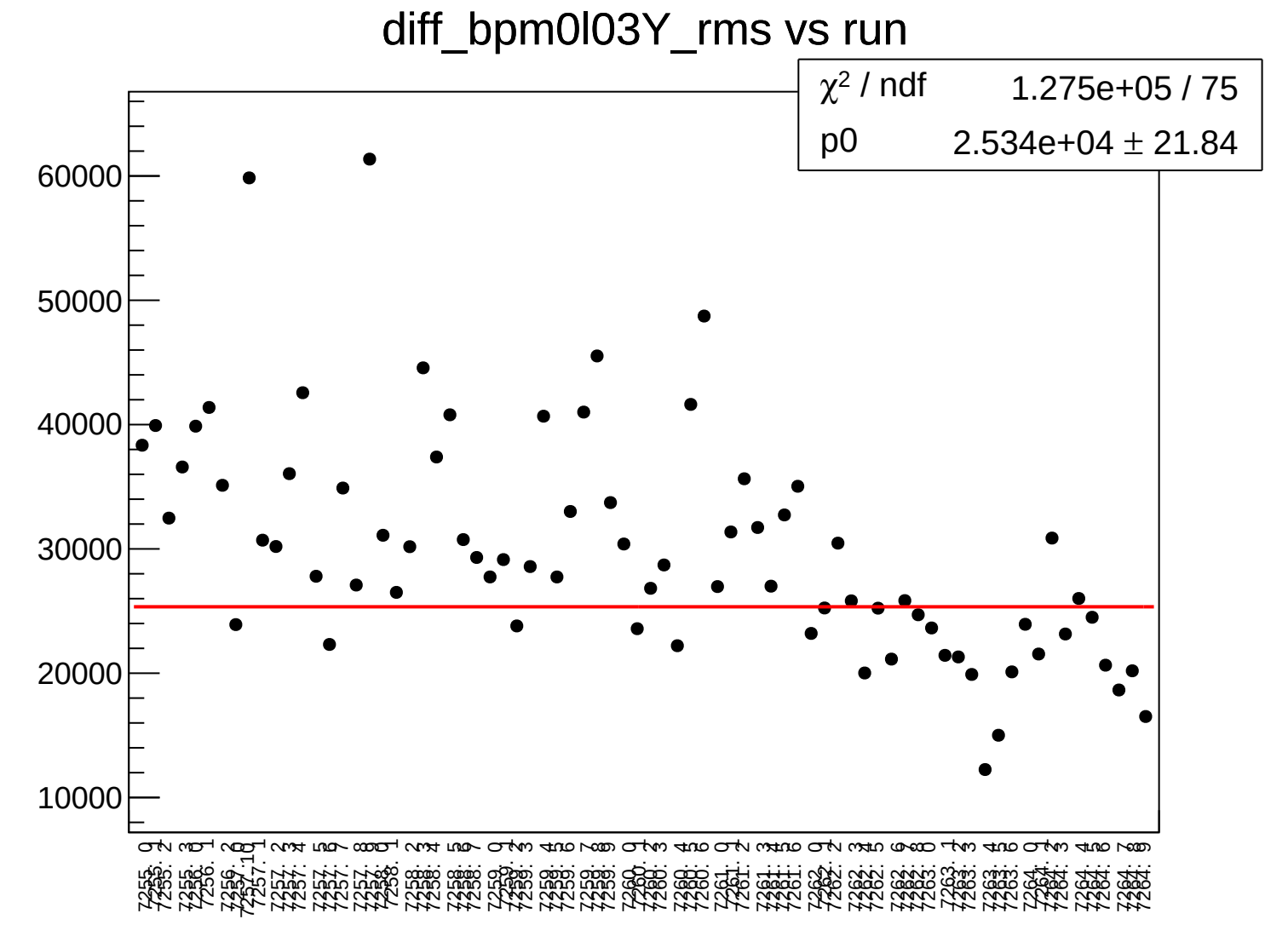

diff_bpm0l03X_mean vs run
χ² / ndf 64.15 / 75
p0 14.8 ± 30.85
pull
Entries 76
Mean 10.63
Std Dev 25.61

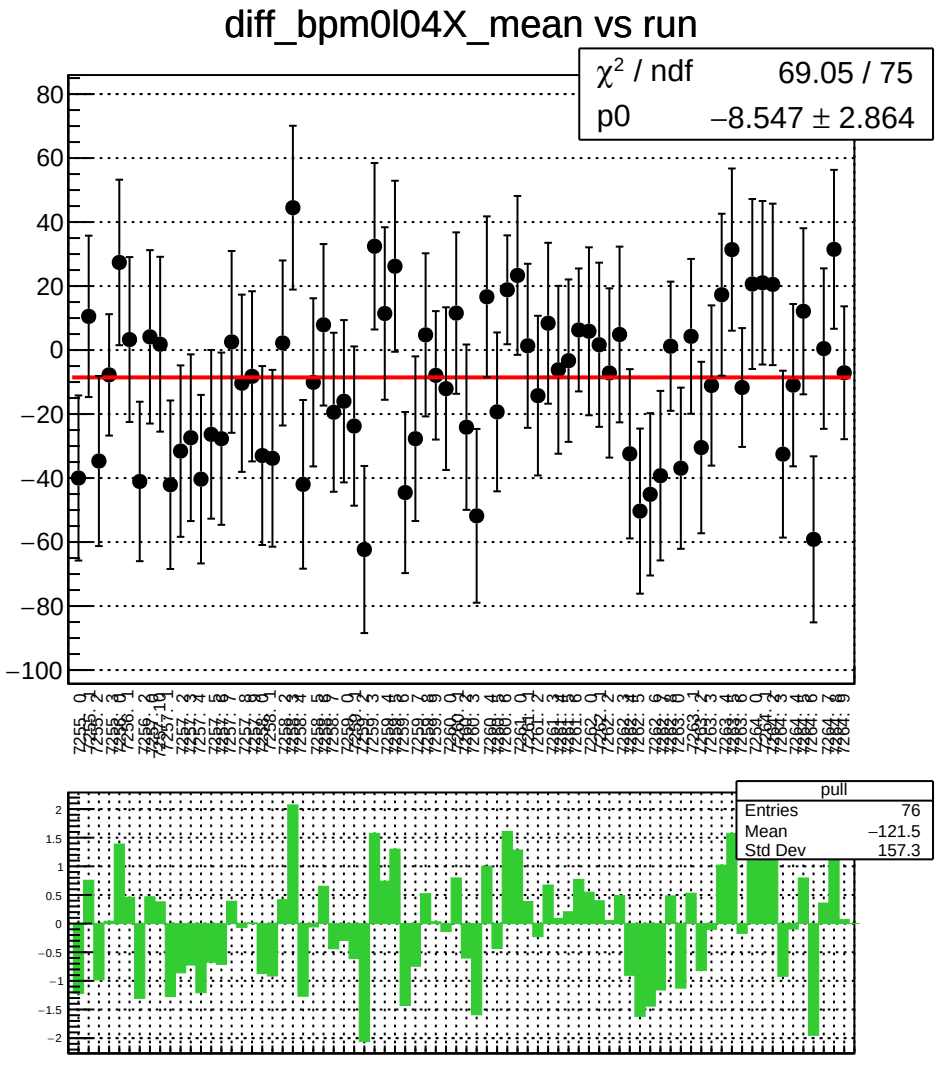

pull1D
Entries 76
Mean 0.0327
Std Dev 0.9182

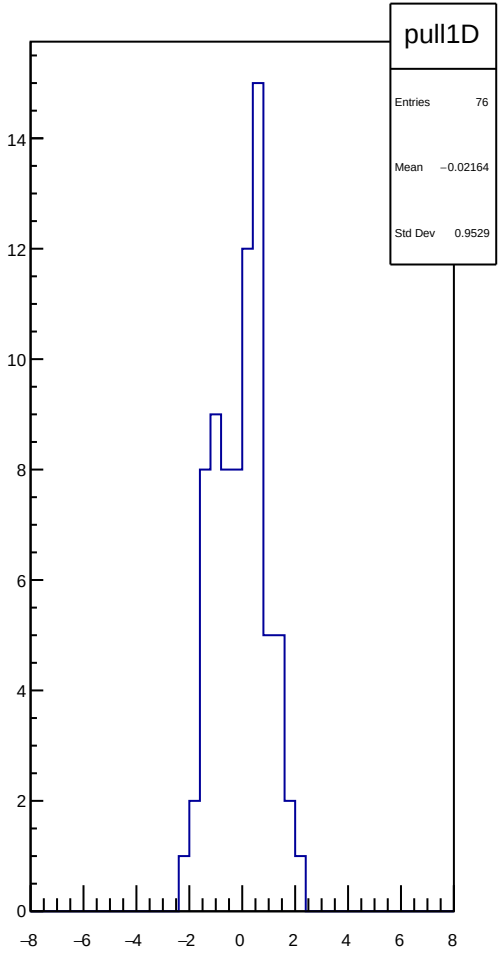

diff_bpm0l03X_rms vs run
χ² / ndf 1.274e+05 / 75
p0 2.531e+04 ± 21.82
60000
50000
40000
30000
20000
10000

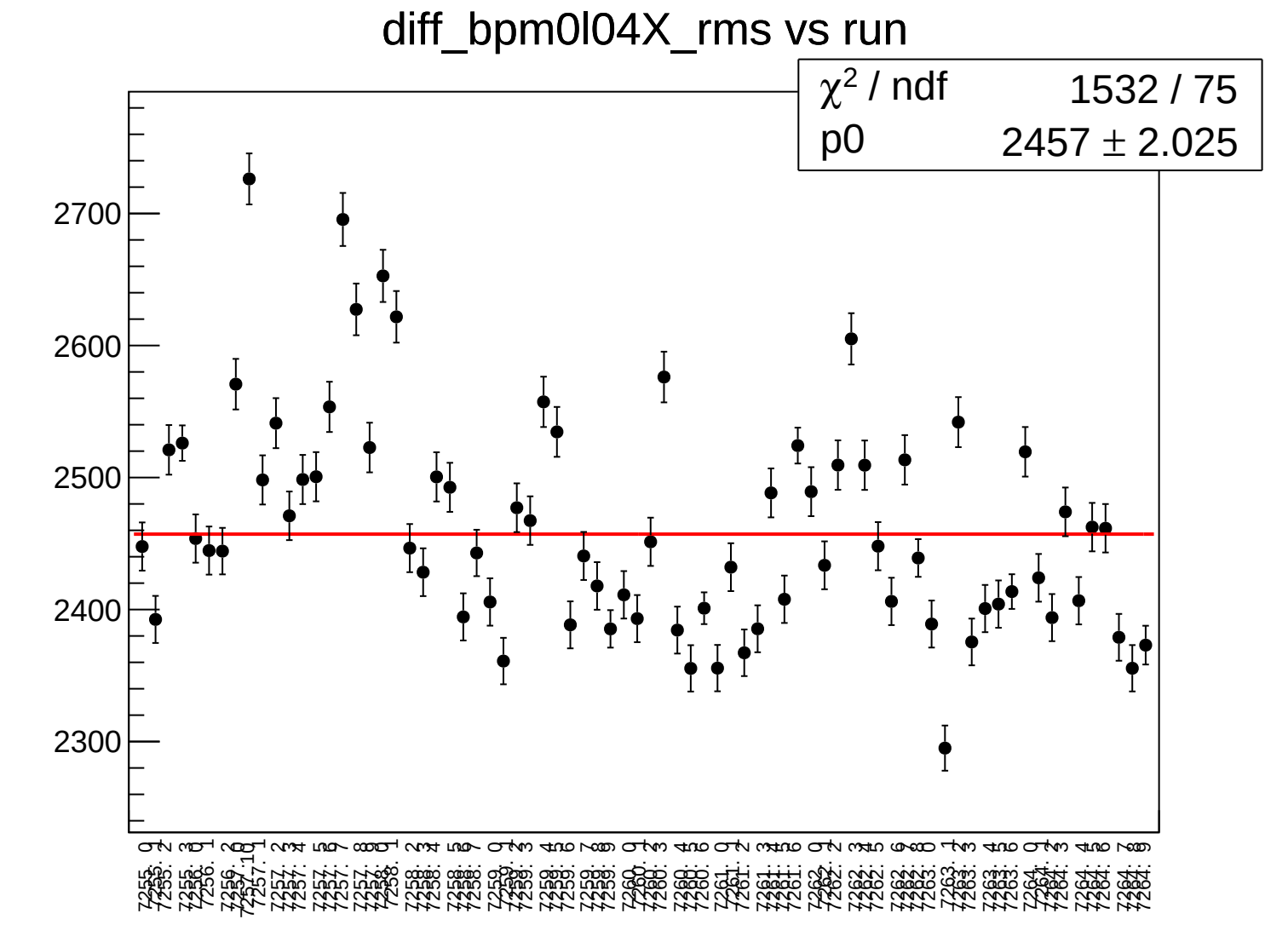

diff_bpm0l03Y_mean vs run
χ^2 / ndf 67.49 / 75
p0 11.51 ± 30.89
pull
Entries 76
Mean −1.565
Std Dev 22

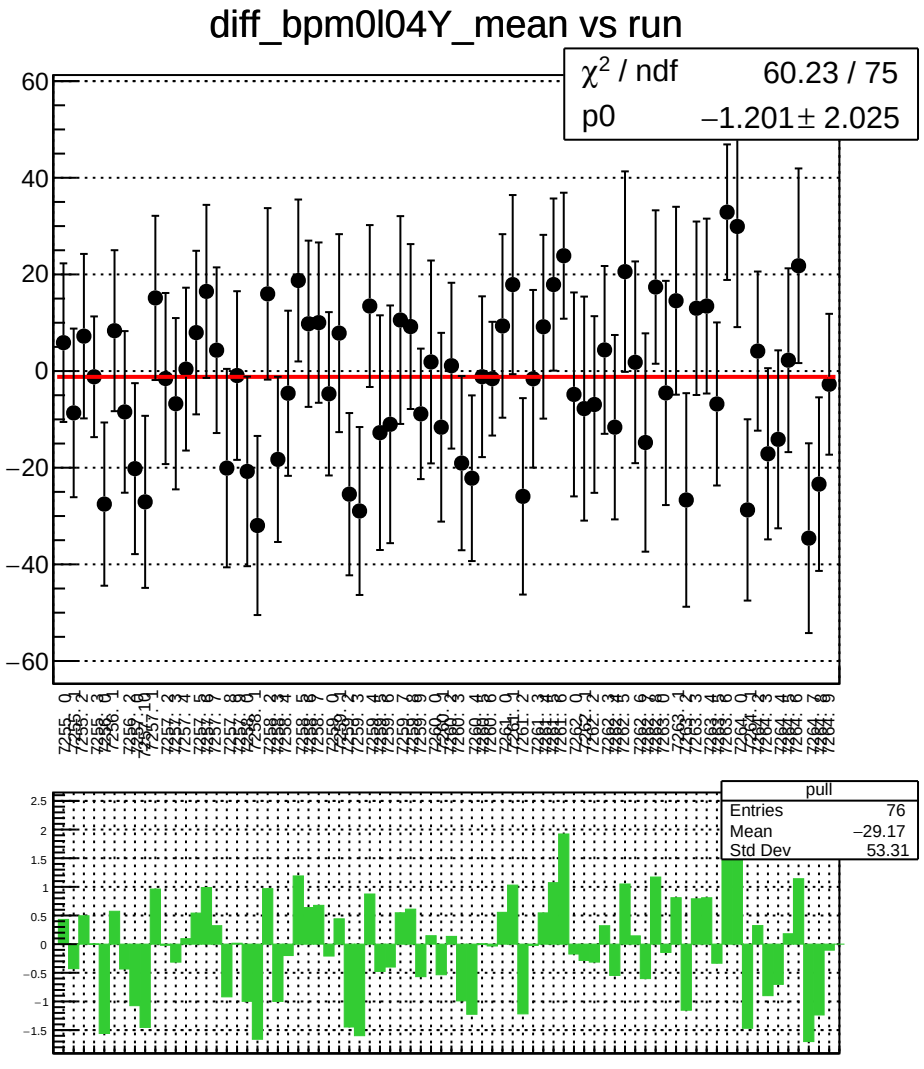

pull1D
Entries 76
Mean 0.03086
Std Dev 0.9418

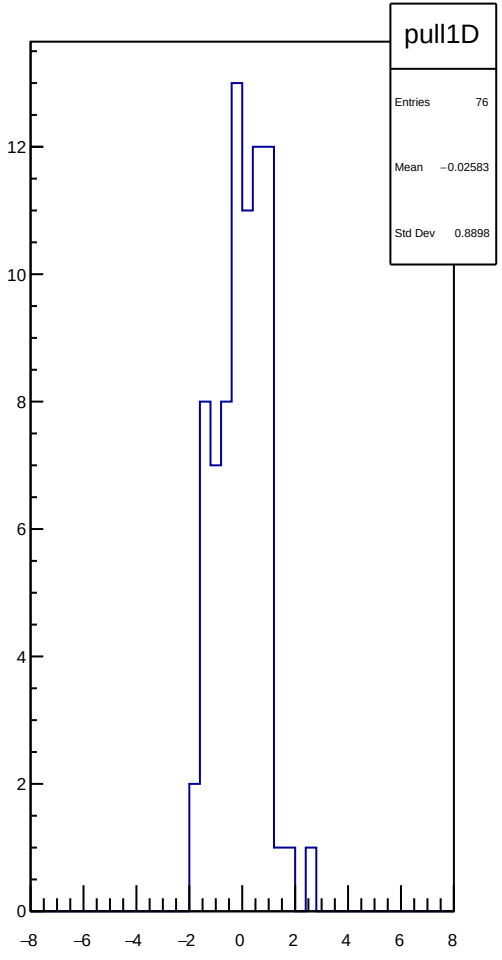

diff_bpm0l03Y_rms vs run
χ² / ndf 1.275e+05 / 75
p0 2.534e+04 ± 21.84
60000
50000
40000
30000
20000
10000

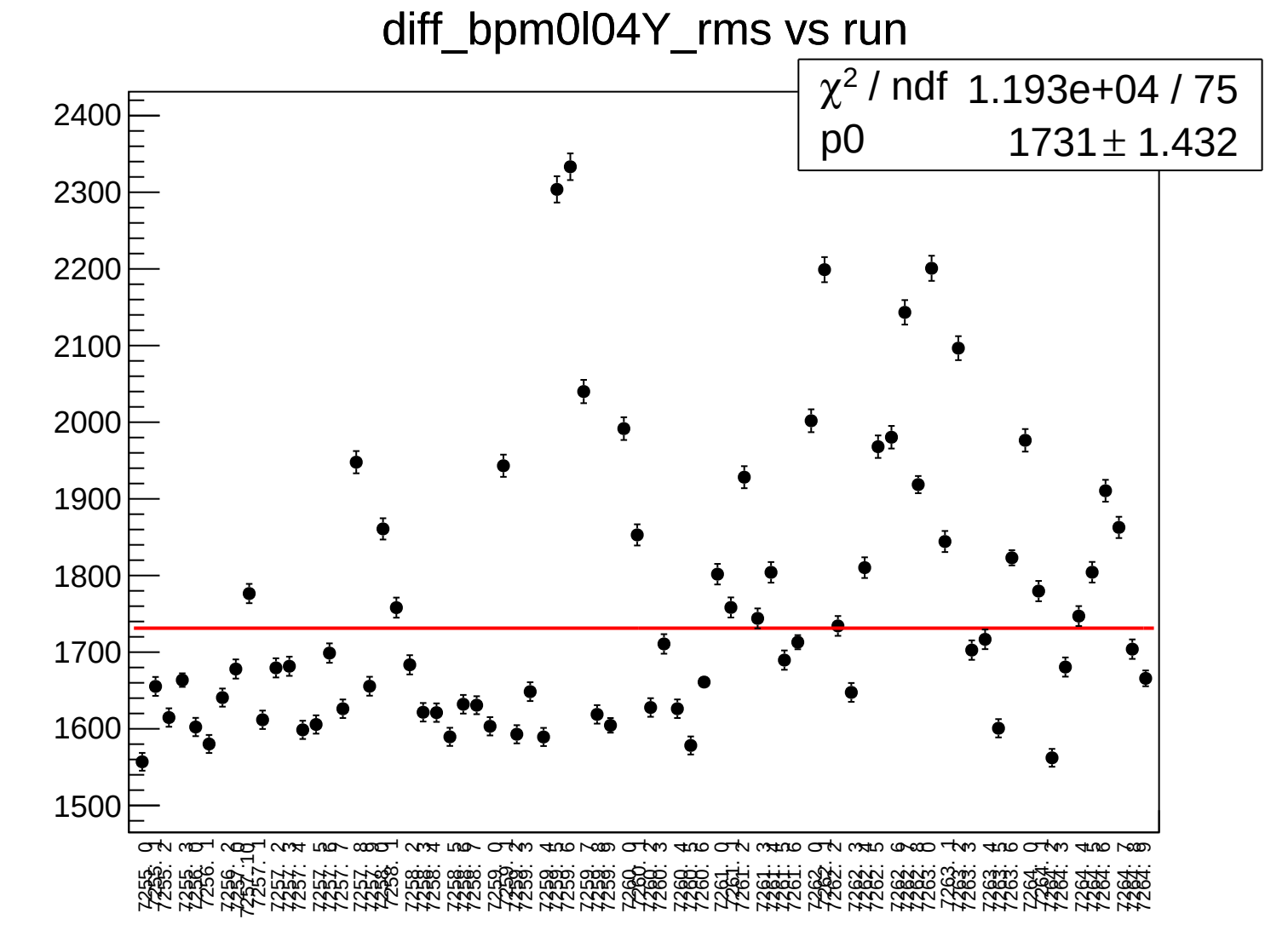

diff_bpm0l04X_mean vs run
χ² / ndf 69.05 / 75
p0 −8.547 ± 2.864
pull
Entries 76
Mean −121.5
Std Dev 157.3

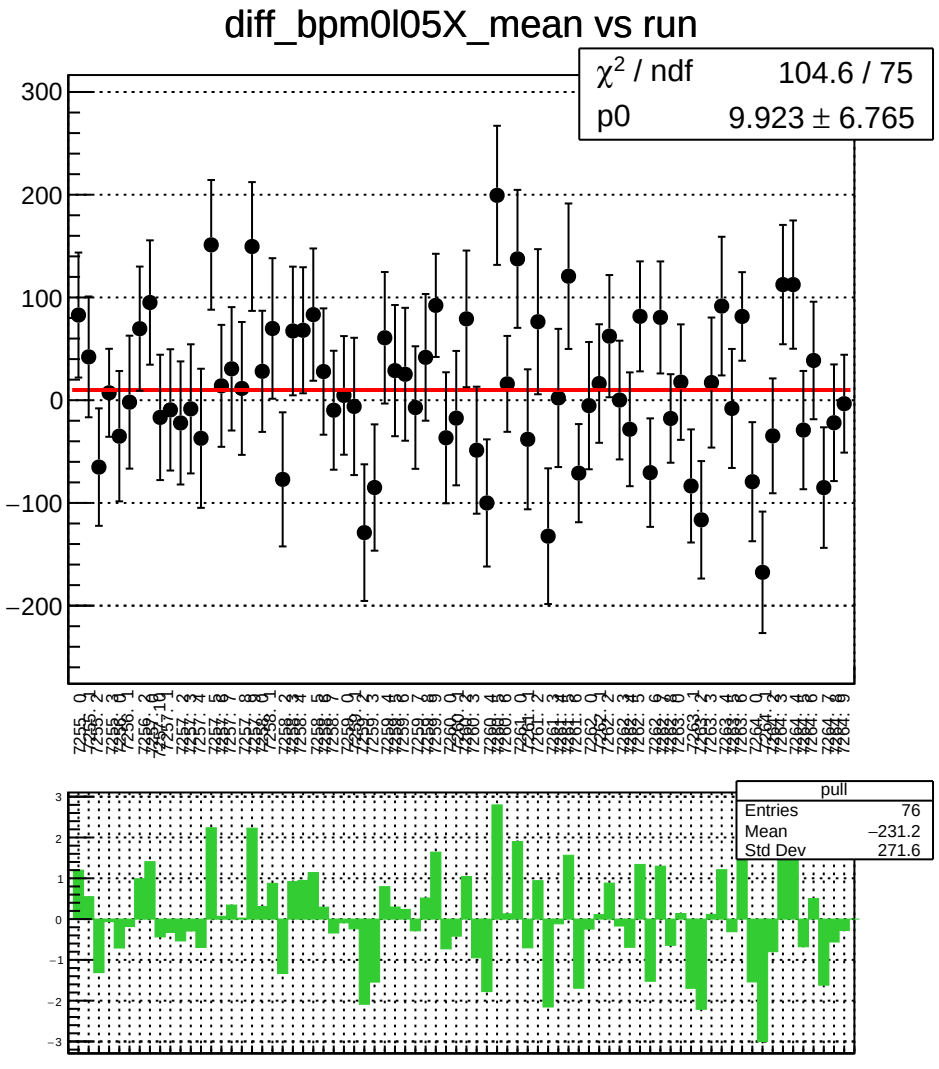

pull1D
Entries 76
Mean −0.02164
Std Dev 0.9529

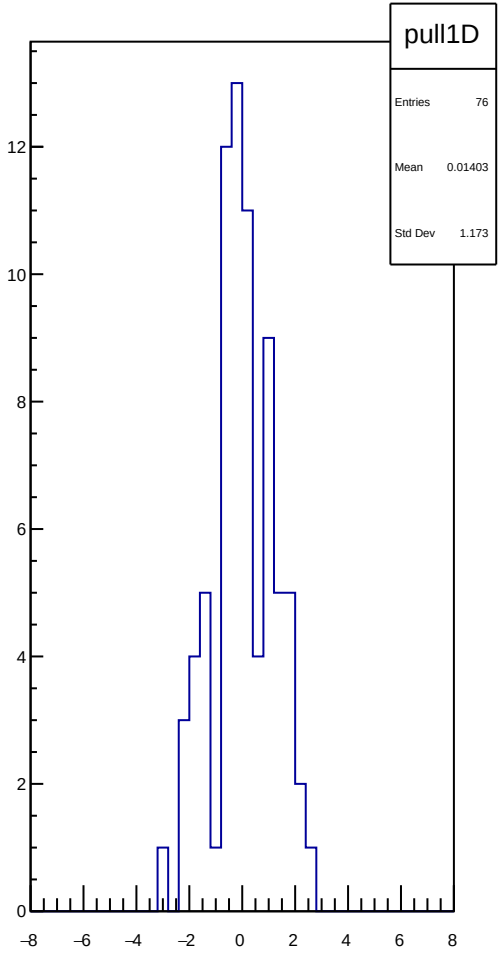

diff_bpm0l04X_rms vs run
χ² / ndf 1532 / 75
p0 2457 ± 2.025
2700
2600
2500
2400
2300

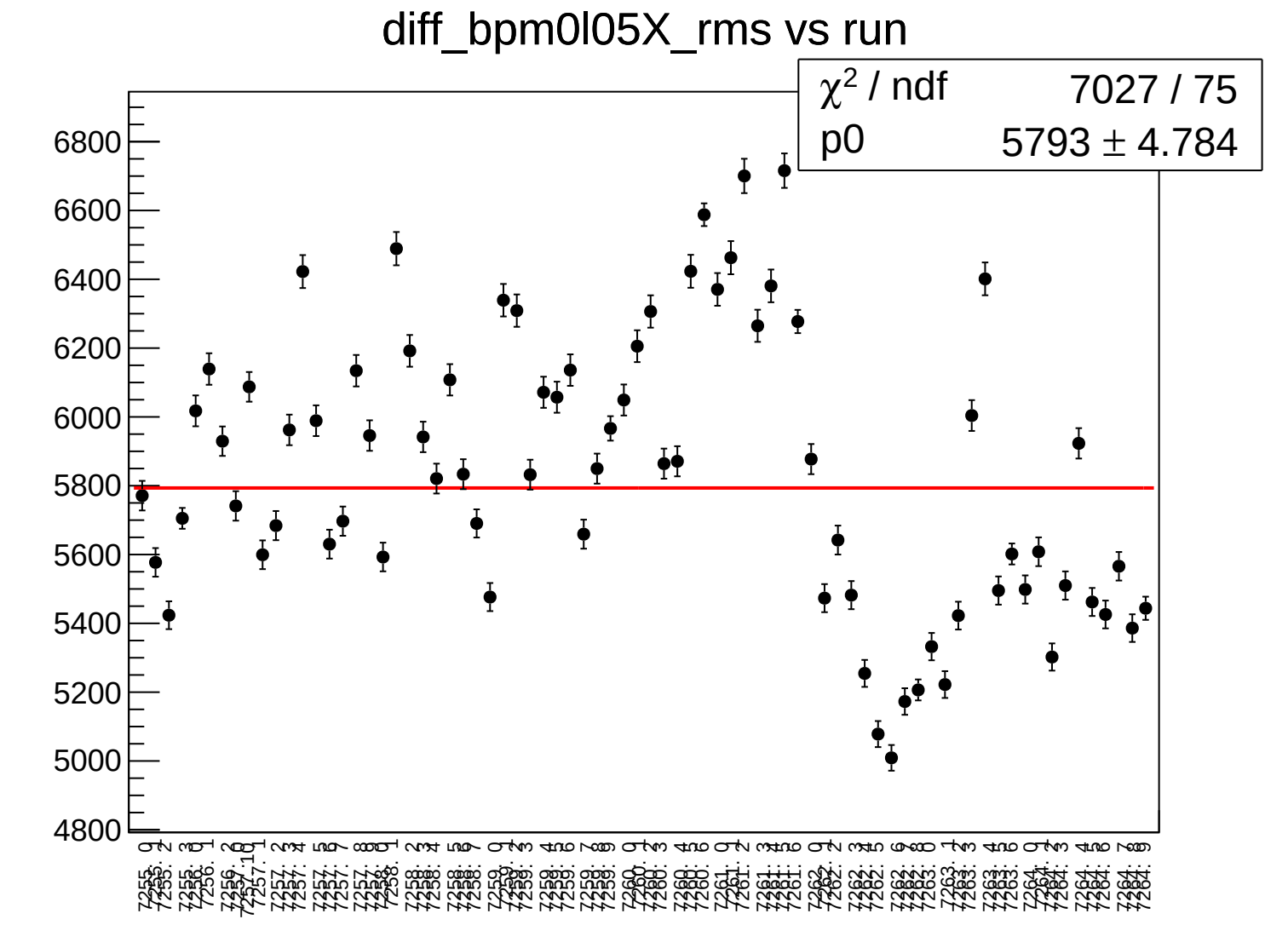

diff_bpm0l04Y_mean vs run
χ² / ndf 60.23 / 75
p0 −1.201± 2.025
pull
Entries 76
Mean −29.17
Std Dev 53.31

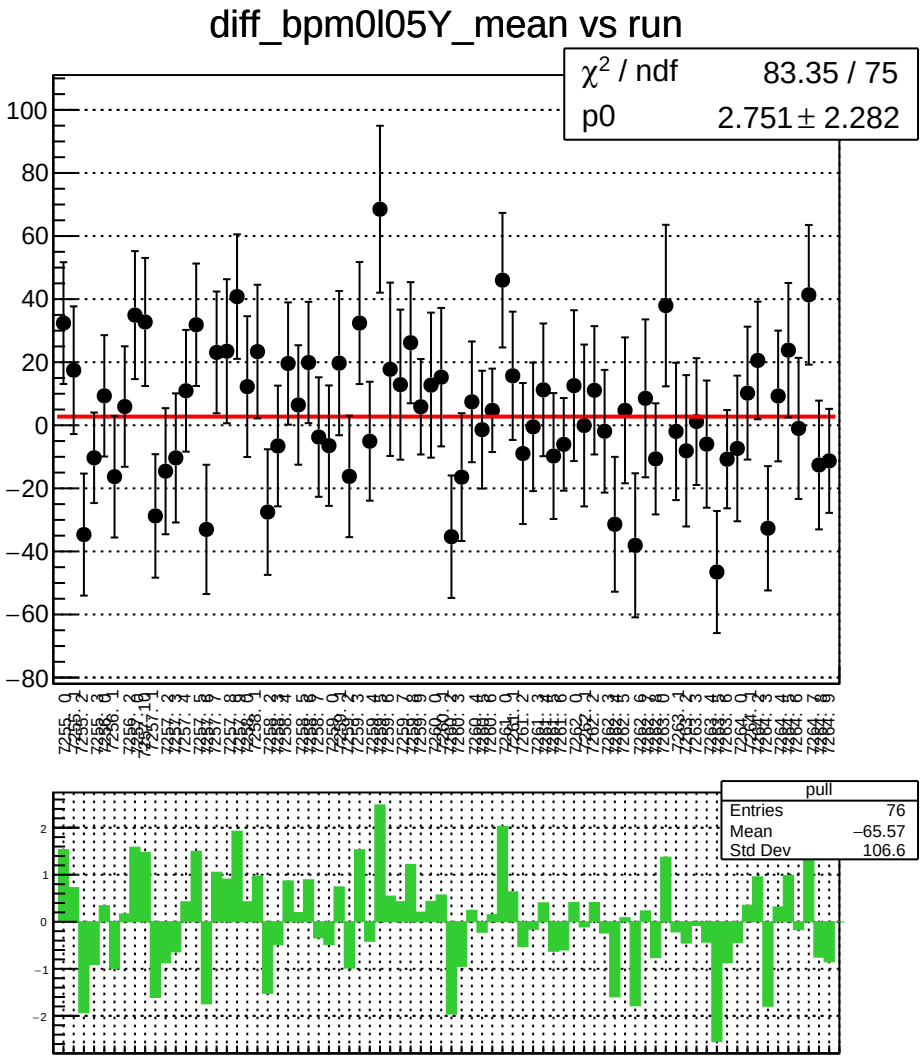

pull1D
Entries 76
Mean −0.02583
Std Dev 0.8898

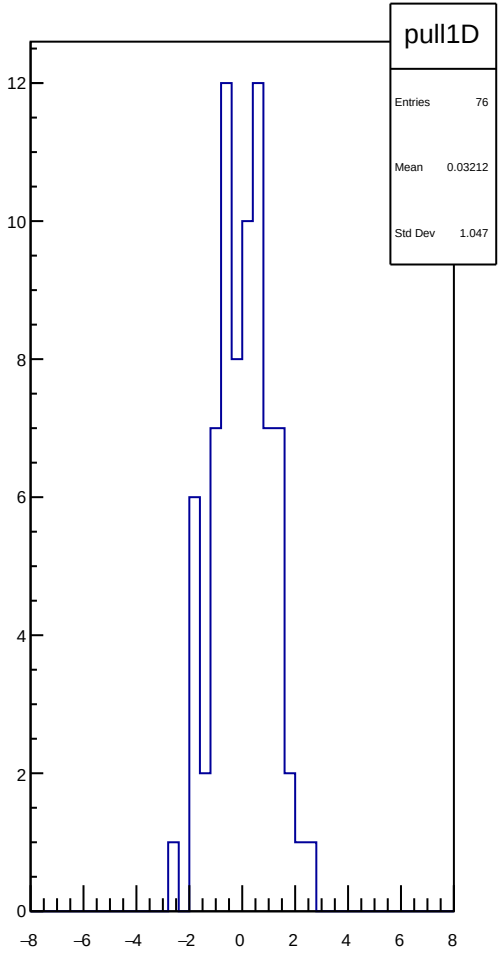

diff_bpm0l04Y_rms vs run
χ² / ndf 1.193e+04 / 75
p0 1731 ± 1.432
2400
2300
2200
2100
2000
1900
1800
1700
1600
1500

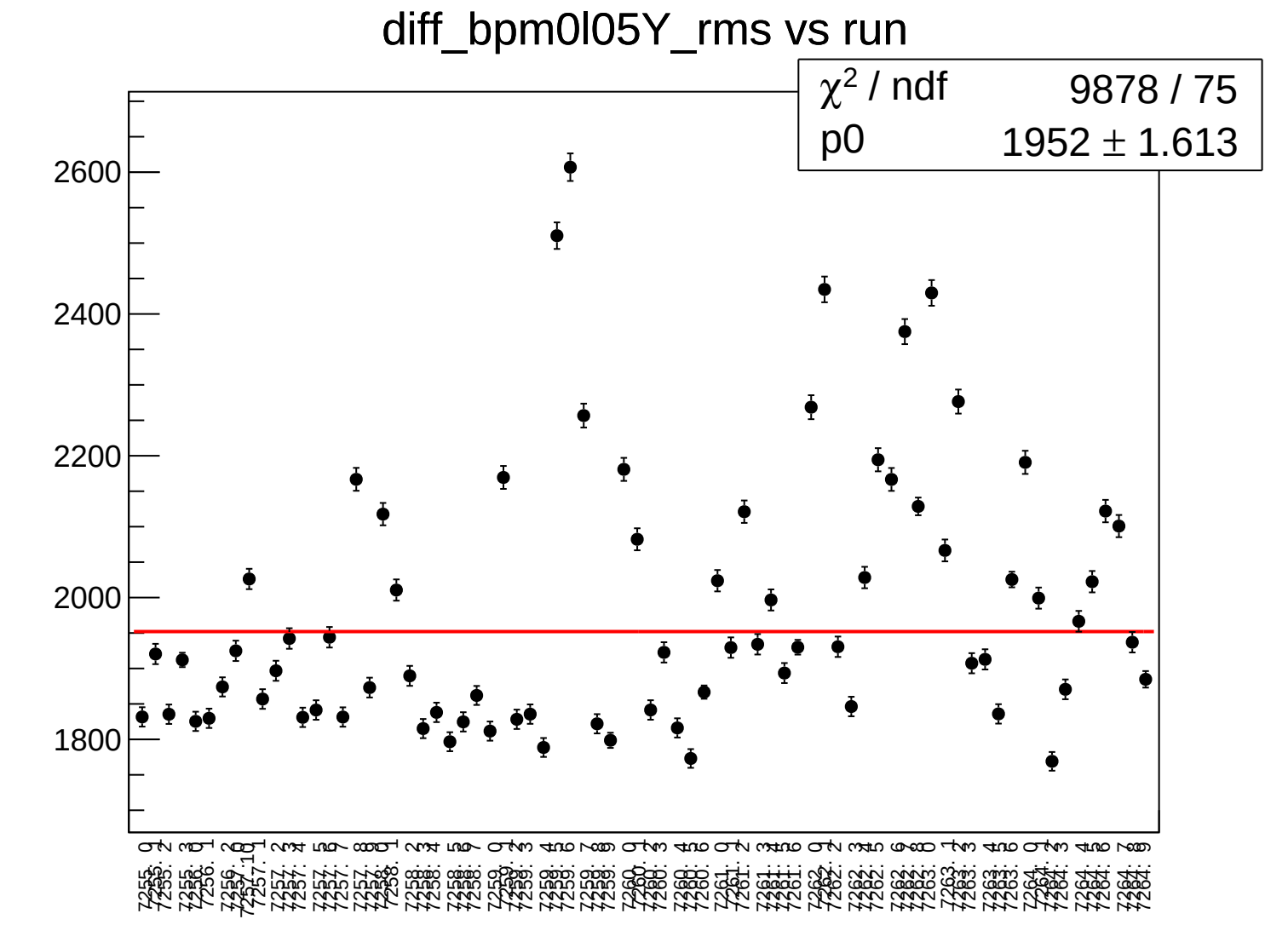

diff_bpm0l05X_mean vs run
χ² / ndf 104.6 / 75
p0 9.923 ± 6.765
pull
Entries 76
Mean −231.2
Std Dev 271.6

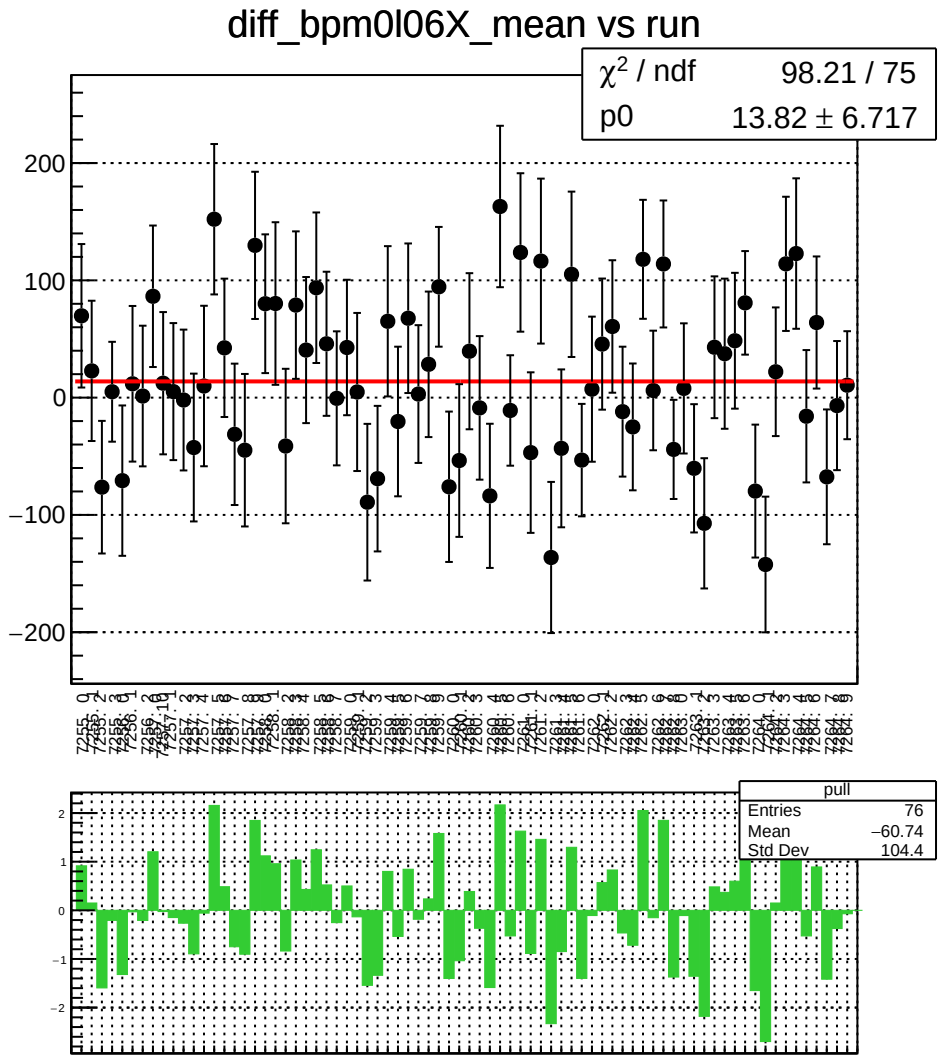

pull1D
Entries 76
Mean 0.01403
Std Dev 1.173

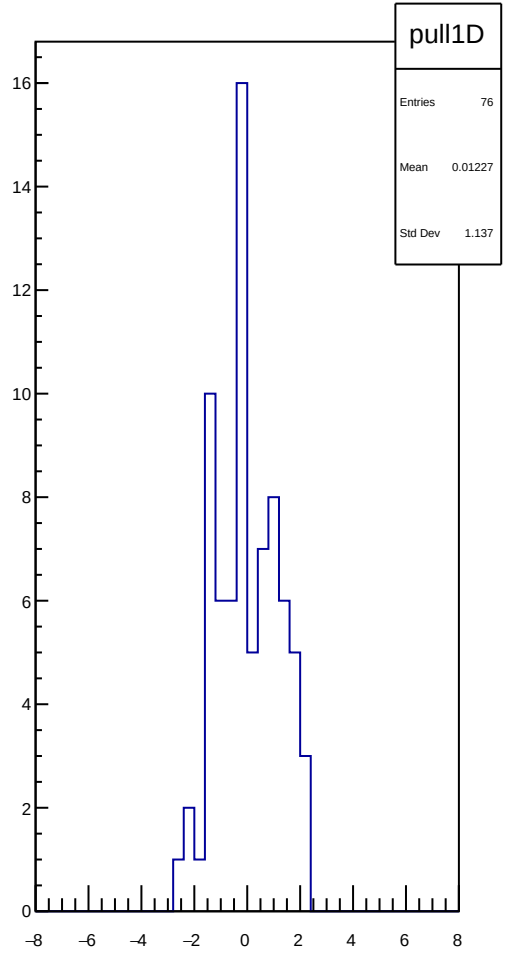

diff_bpm0l05X_rms vs run
χ² / ndf 7027 / 75
p0 5793 ± 4.784
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

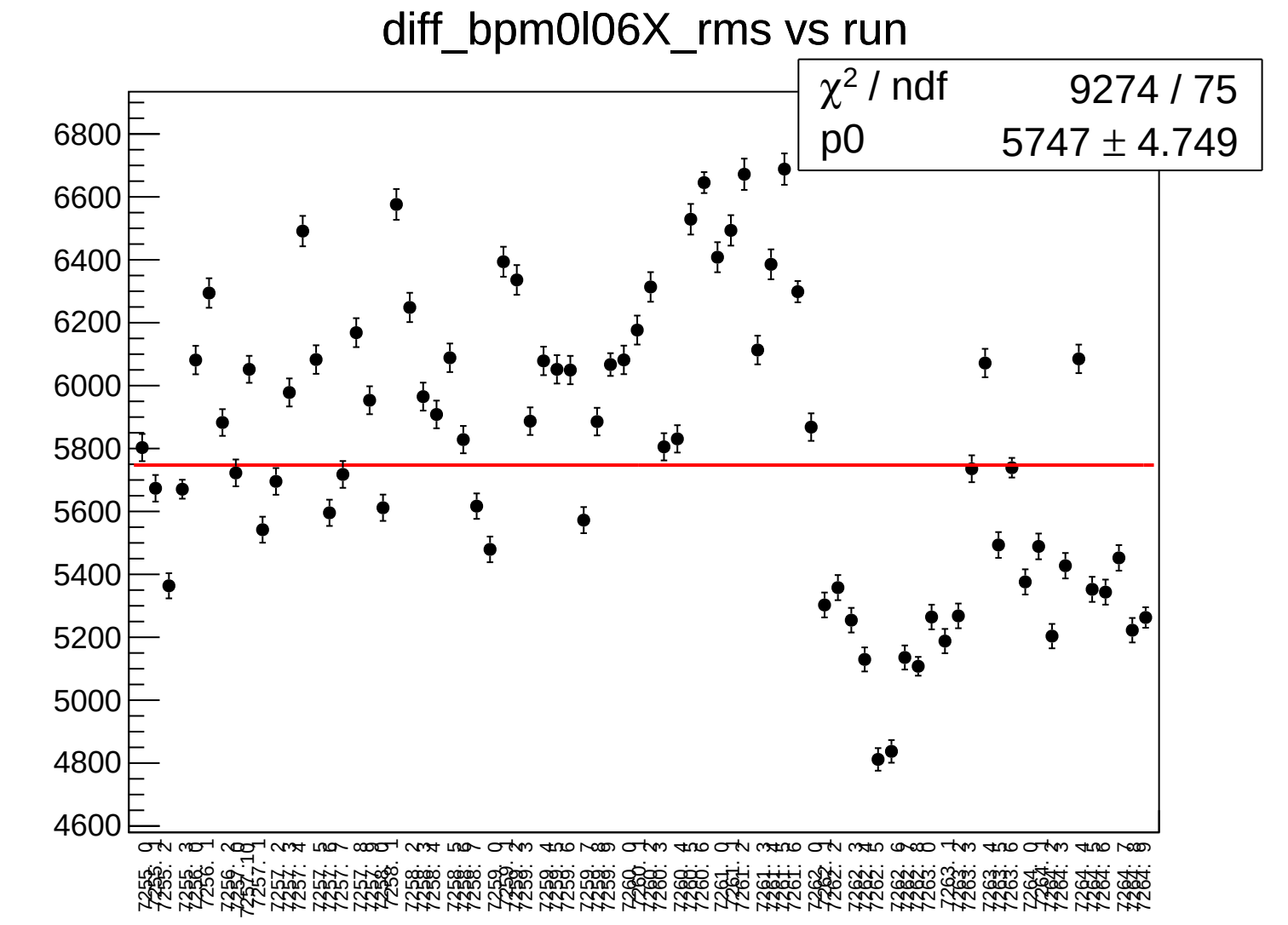

diff_bpm0l05Y_mean vs run
χ² / ndf 83.35 / 75
p0 2.751 ± 2.282
pull
Entries 76
Mean −65.57
Std Dev 106.6

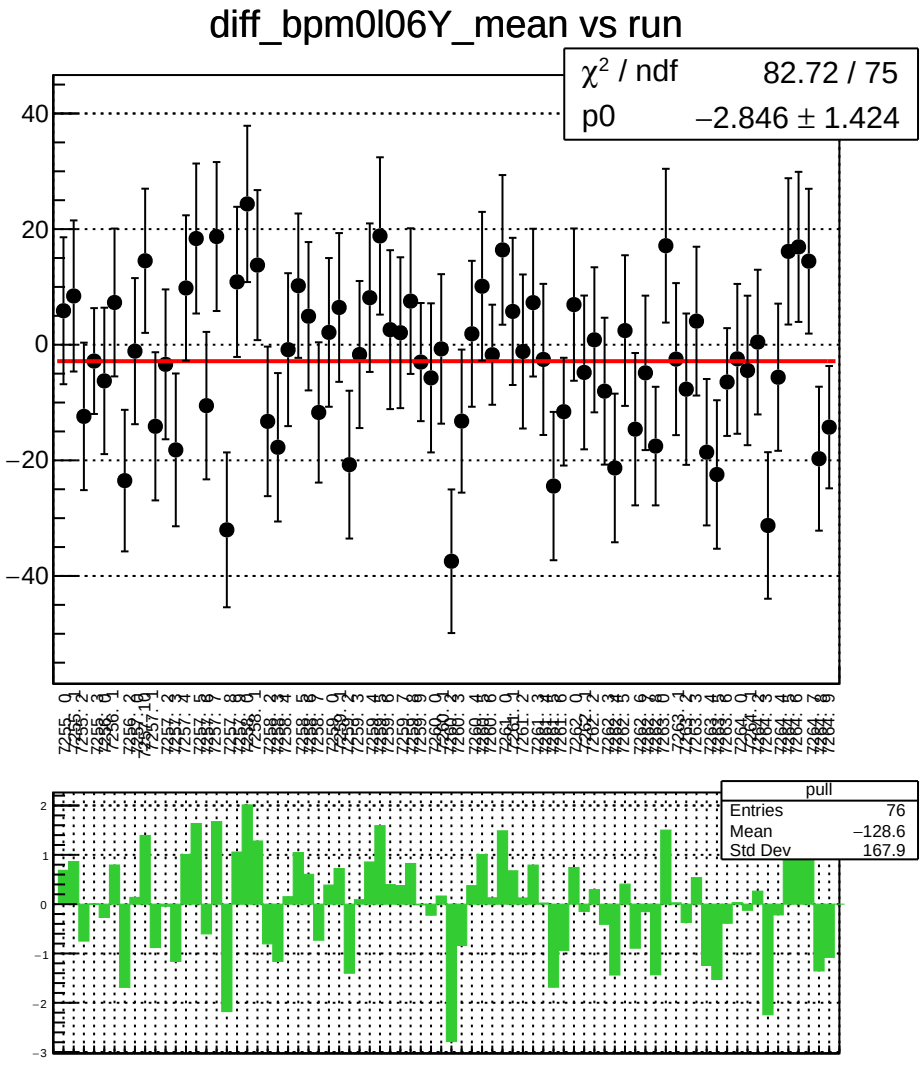

pull1D
Entries 76
Mean 0.03212
Std Dev 1.047

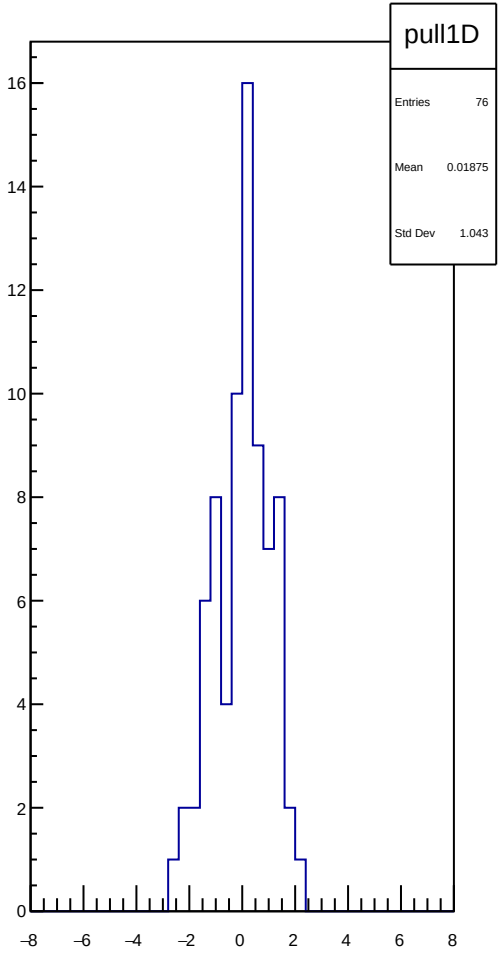

diff_bpm0l05Y_rms vs run
χ² / ndf 9878 / 75
p0 1952 ± 1.613
2600
2400
2200
2000
1800

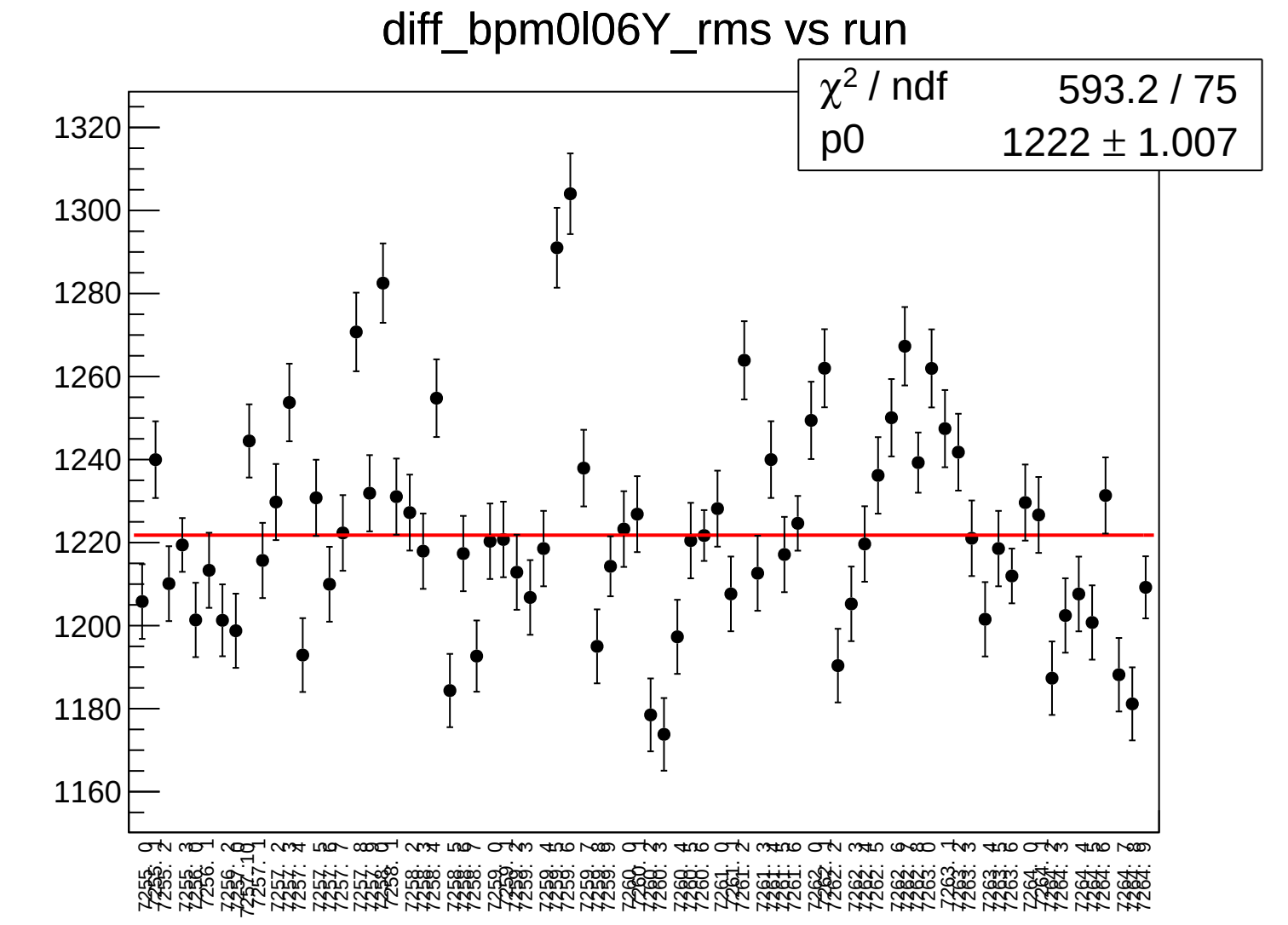

diff_bpm0l06X_mean vs run
χ^2 / ndf 98.21 / 75
p0 13.82 ± 6.717
200
100
0
−100
−200
pull
Entries 76
Mean −60.74
Std Dev 104.4
2
1
0
−1
−2

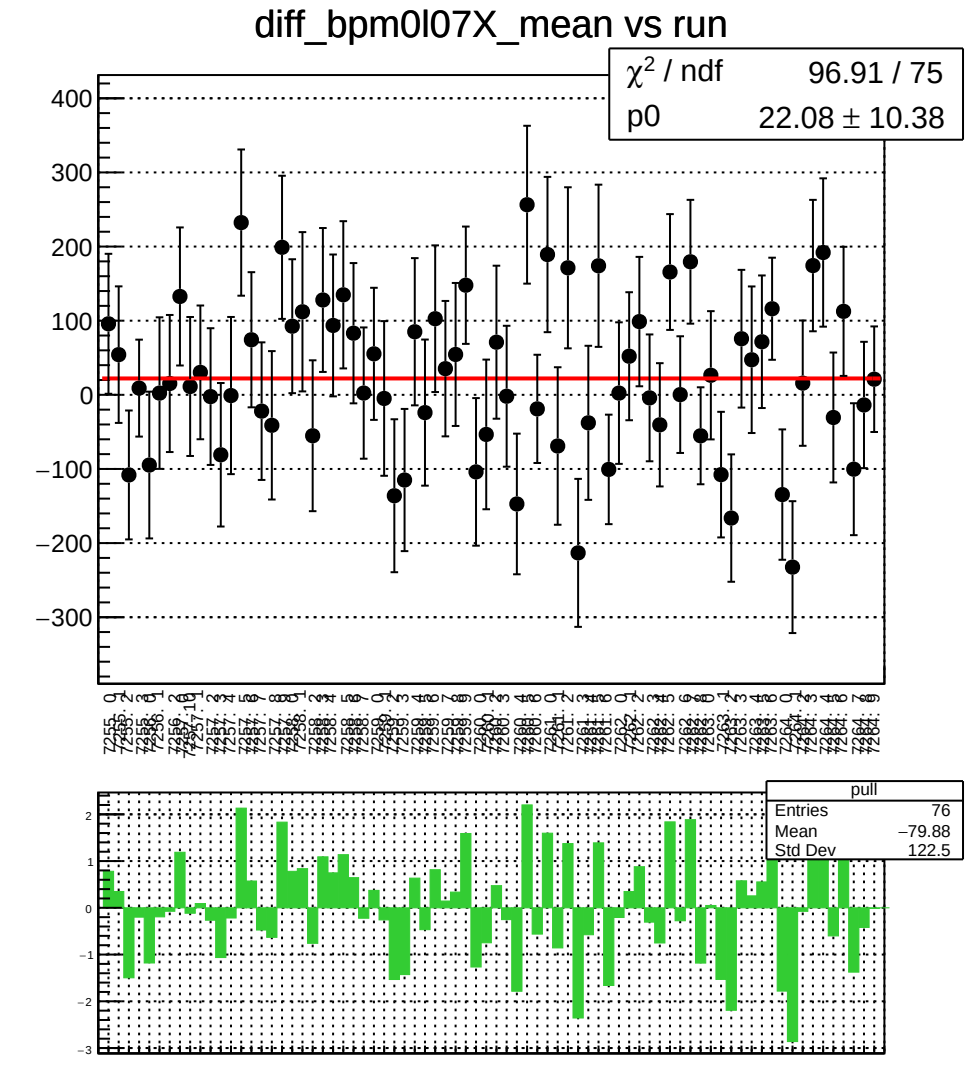

pull1D
Entries 76
Mean 0.01227
Std Dev 1.137
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

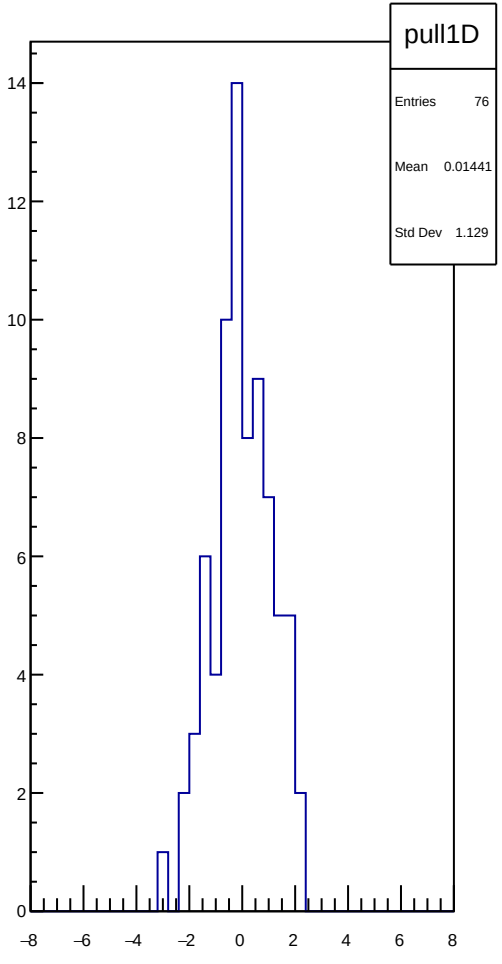

diff_bpm0l06X_rms vs run
χ² / ndf 9274 / 75
p0 5747 ± 4.749
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600

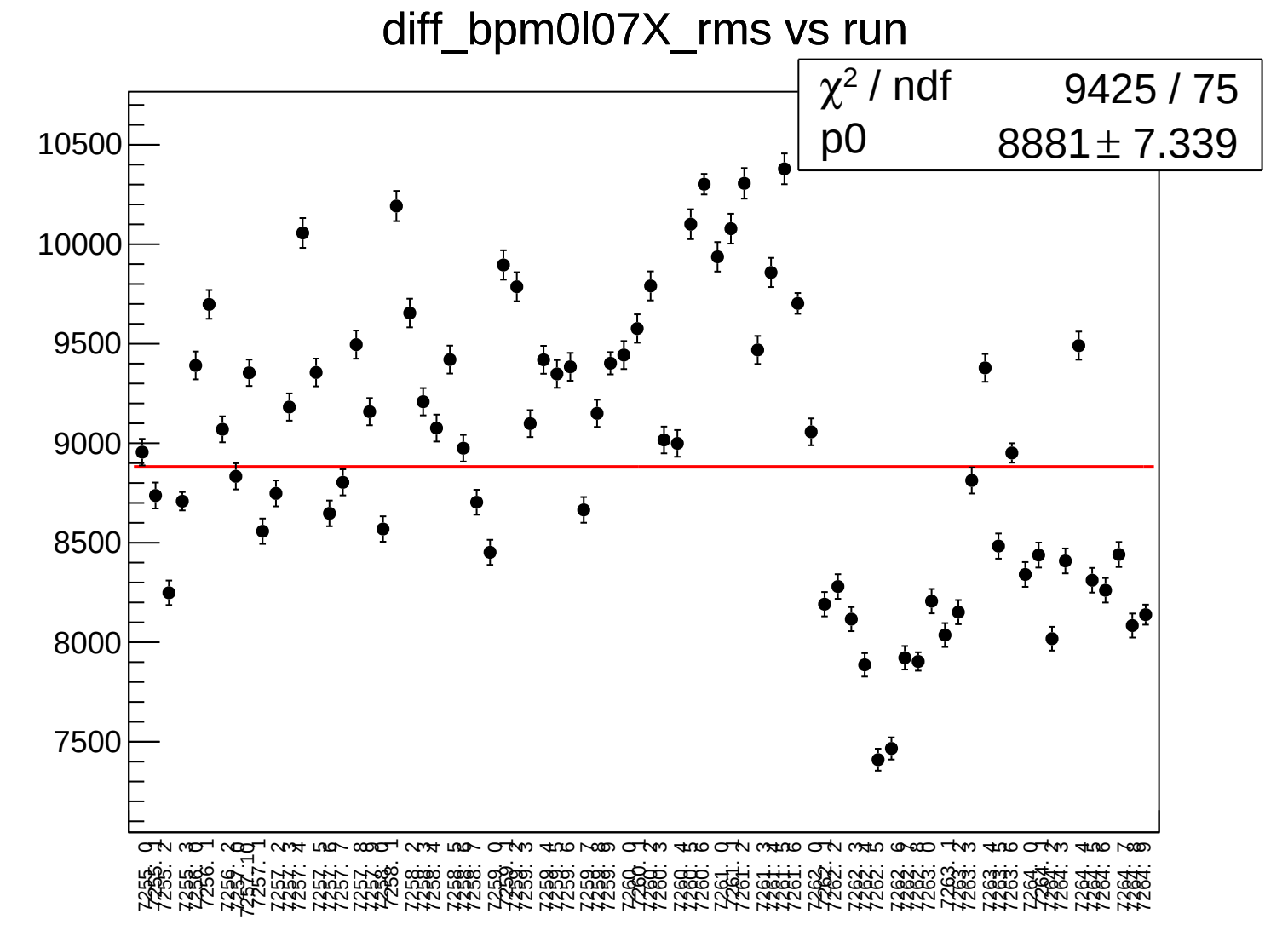

diff_bpm0l06Y_mean vs run
χ² / ndf 82.72 / 75
p0 −2.846 ± 1.424
pull
Entries 76
Mean −128.6
Std Dev 167.9

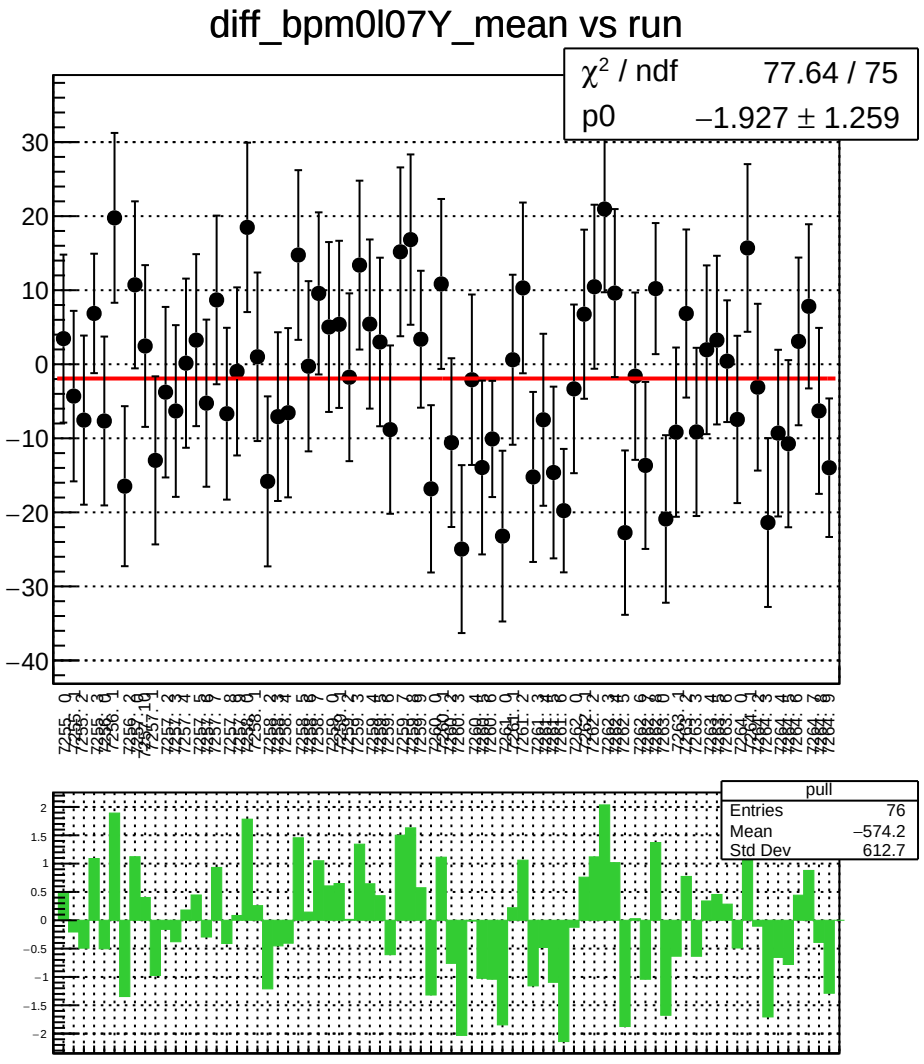

pull1D
Entries 76
Mean 0.01875
Std Dev 1.043

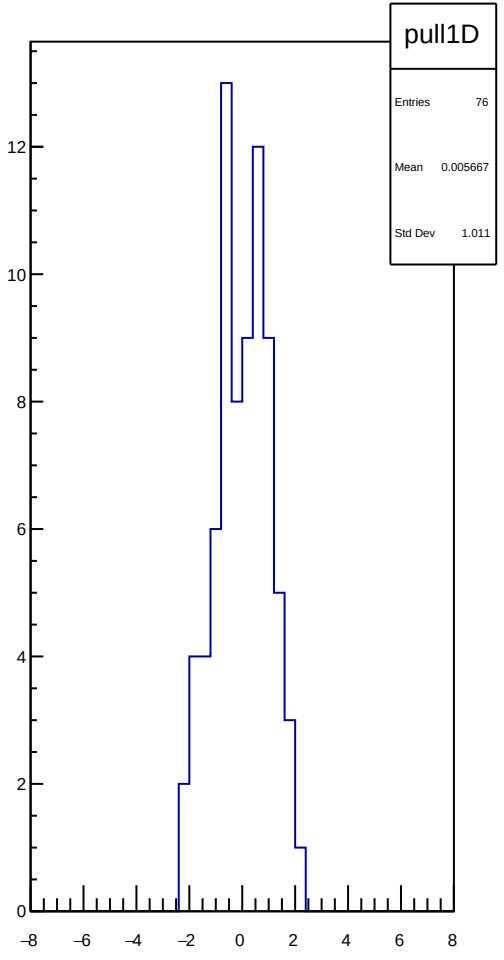

diff_bpm0l06Y_rms vs run
χ² / ndf 593.2 / 75
p0 1222 ± 1.007
1320
1300
1280
1260
1240
1220
1200
1180
1160

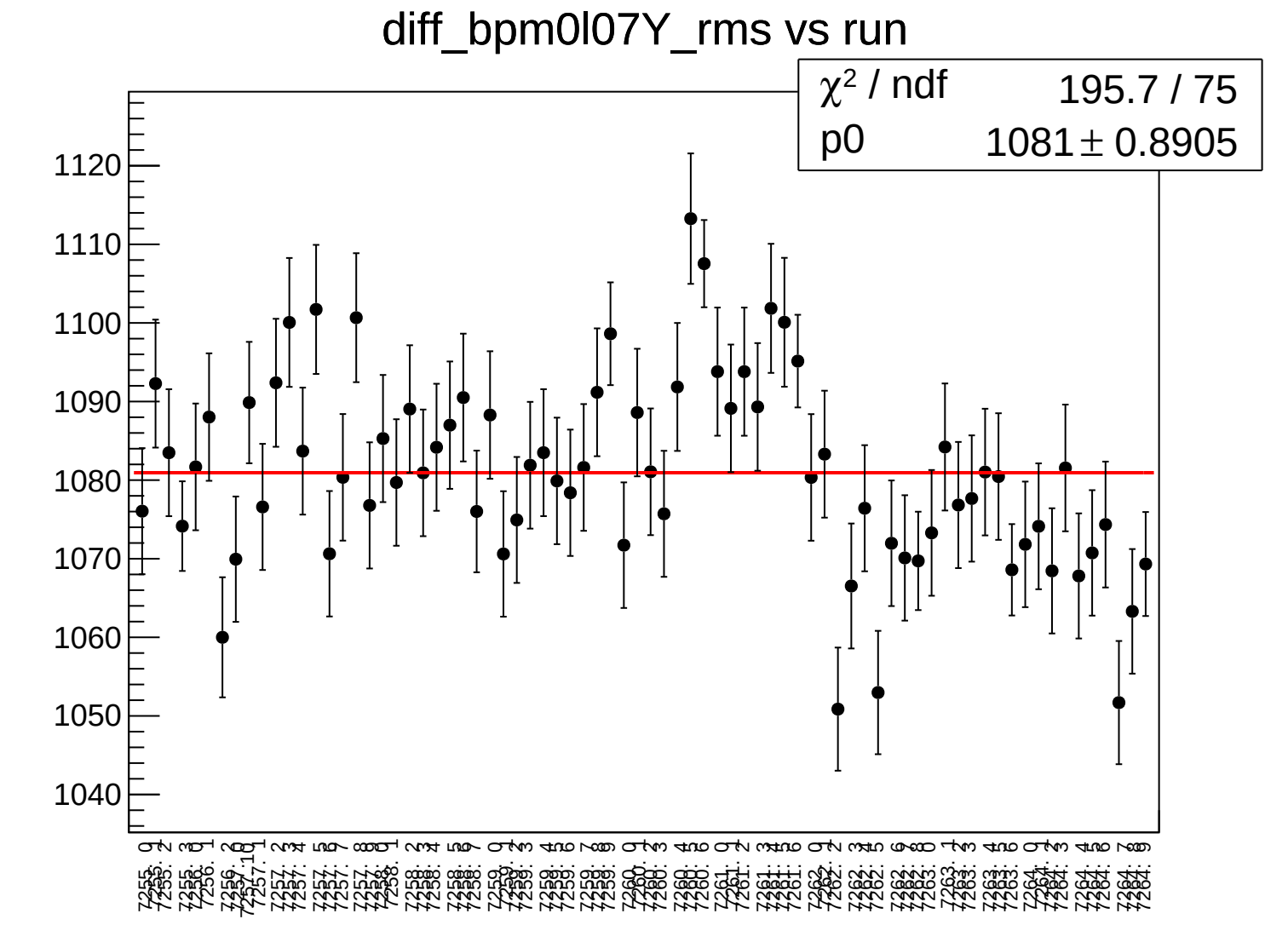

diff_bpm0l07X_mean vs run
χ² / ndf 96.91 / 75
p0 22.08 ± 10.38
pull
Entries 76
Mean −79.88
Std Dev 122.5

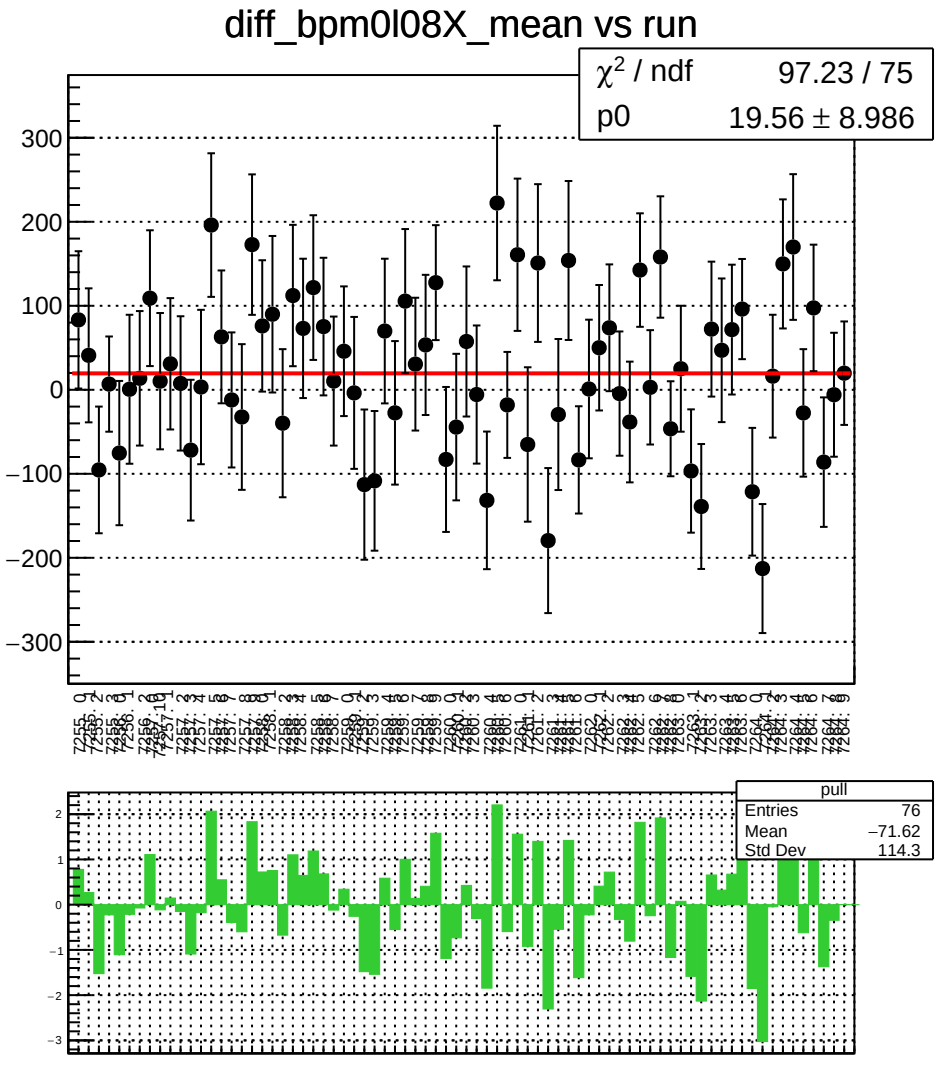

pull1D
Entries 76
Mean 0.01441
Std Dev 1.129

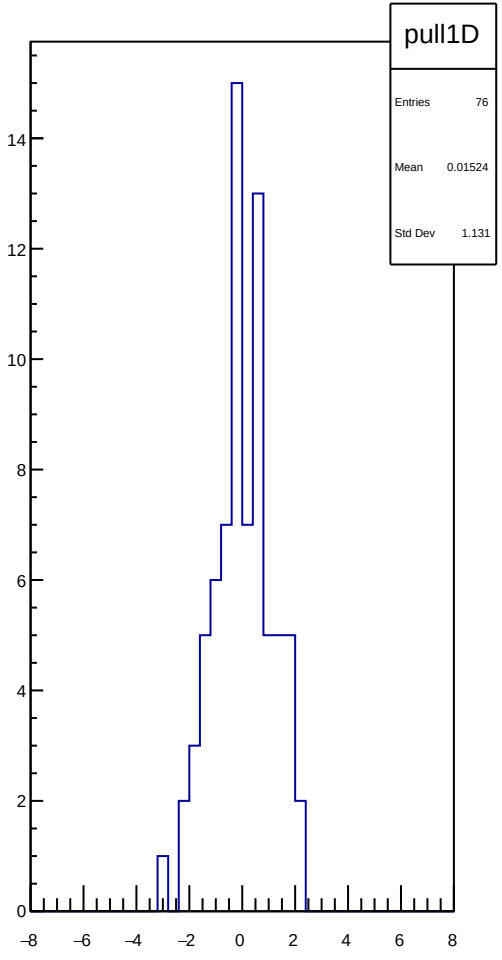

diff_bpm0l07X_rms vs run
χ² / ndf 9425 / 75
p0 8881 ± 7.339
10500
10000
9500
9000
8500
8000
7500

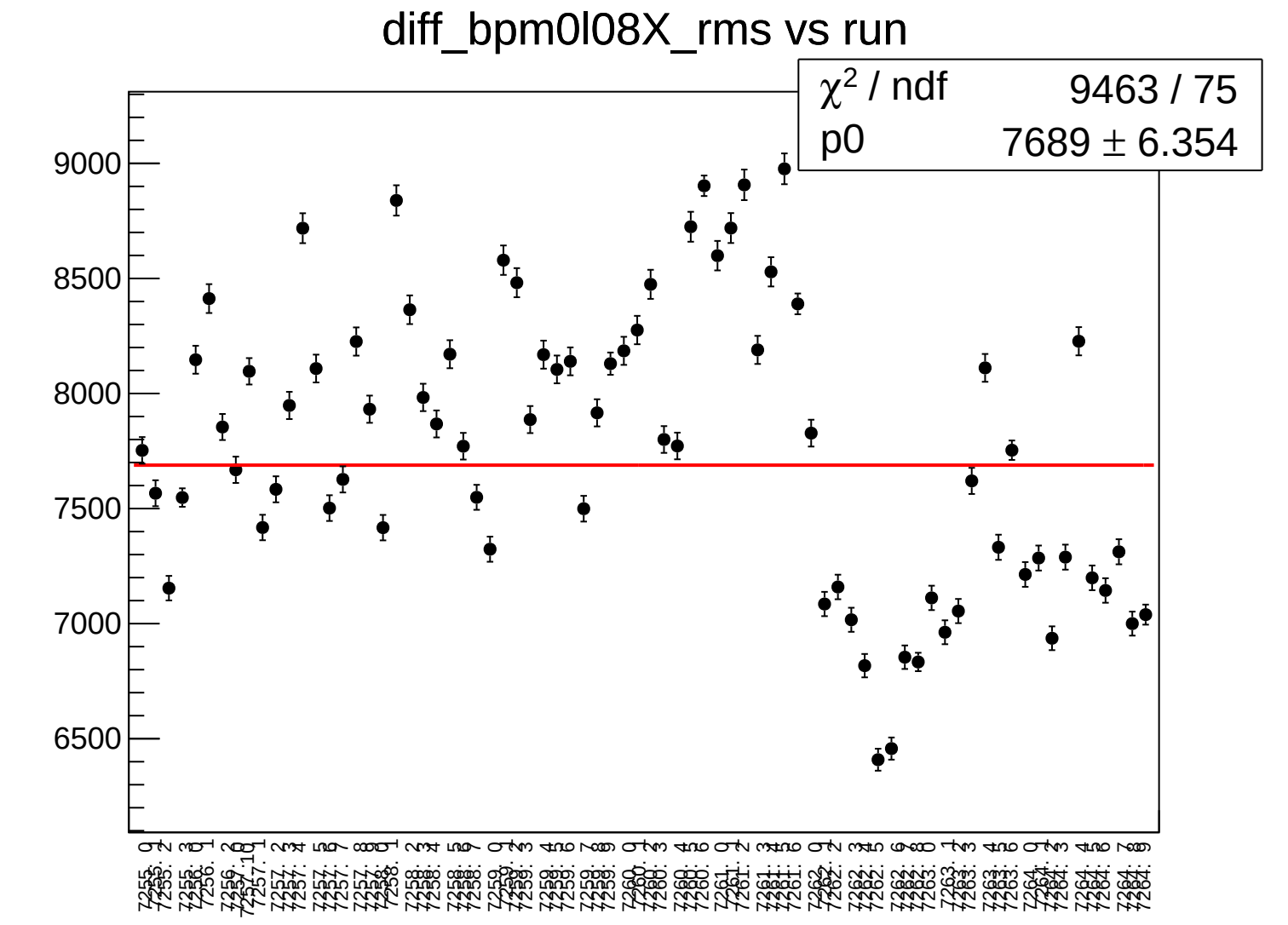

diff_bpm0l07Y_mean vs run
χ² / ndf 77.64 / 75
p0 −1.927 ± 1.259
pull
Entries 76
Mean −574.2
Std Dev 612.7

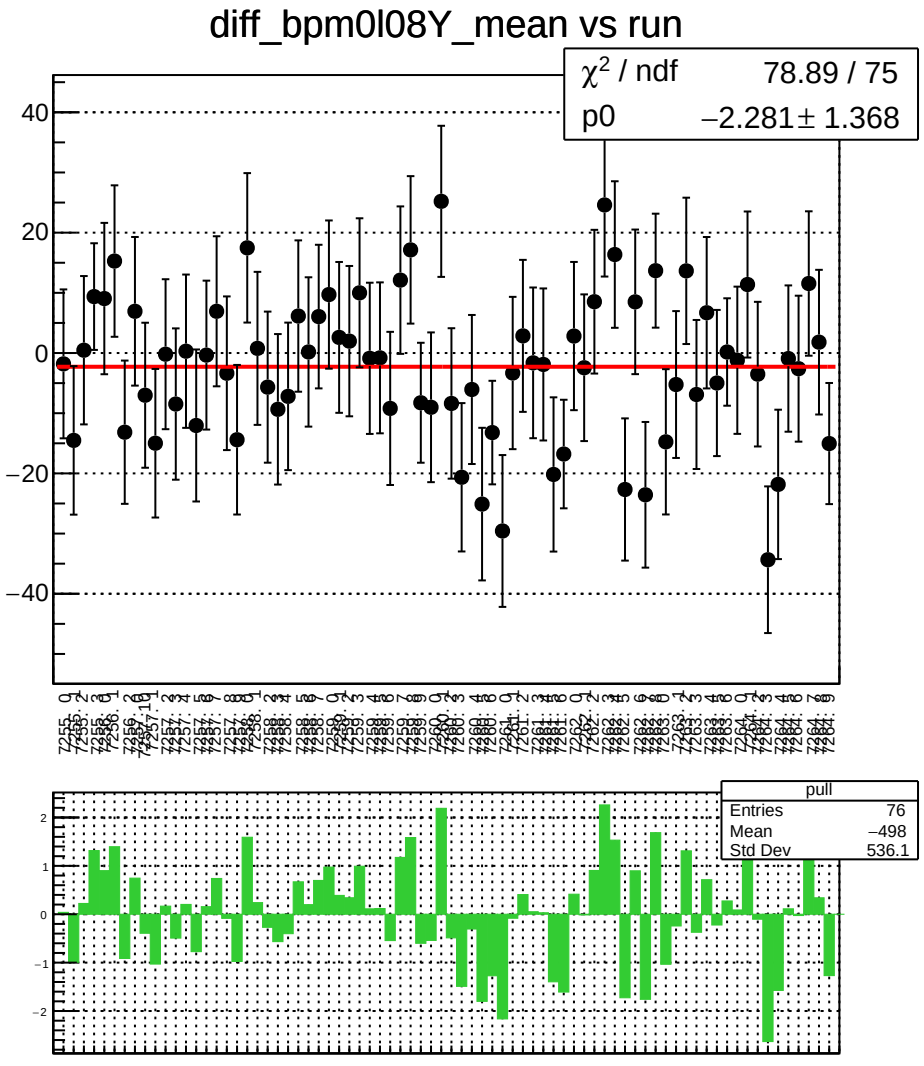

pull1D
Entries 76
Mean 0.005667
Std Dev 1.011

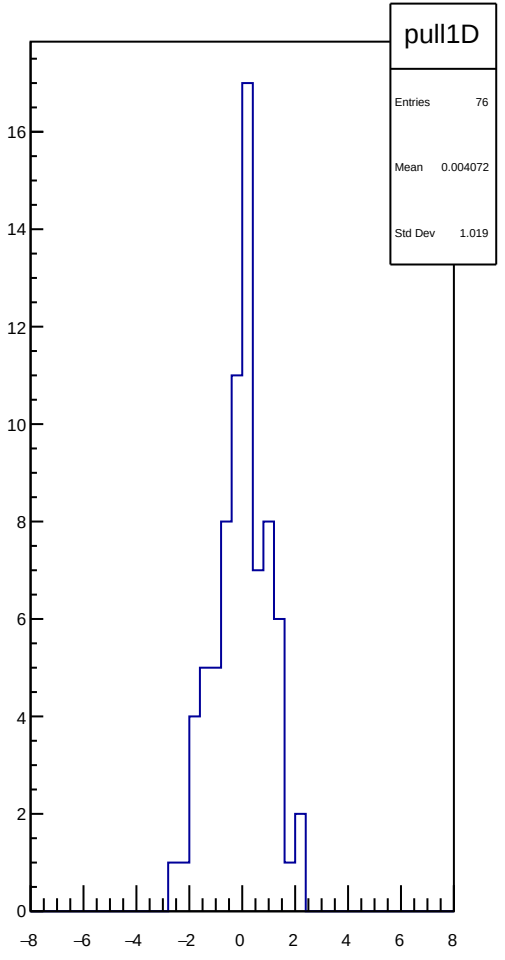

diff_bpm0l07Y_rms vs run
χ² / ndf 195.7 / 75
p0 1081 ± 0.8905
1120
1110
1100
1090
1080
1070
1060
1050
1040

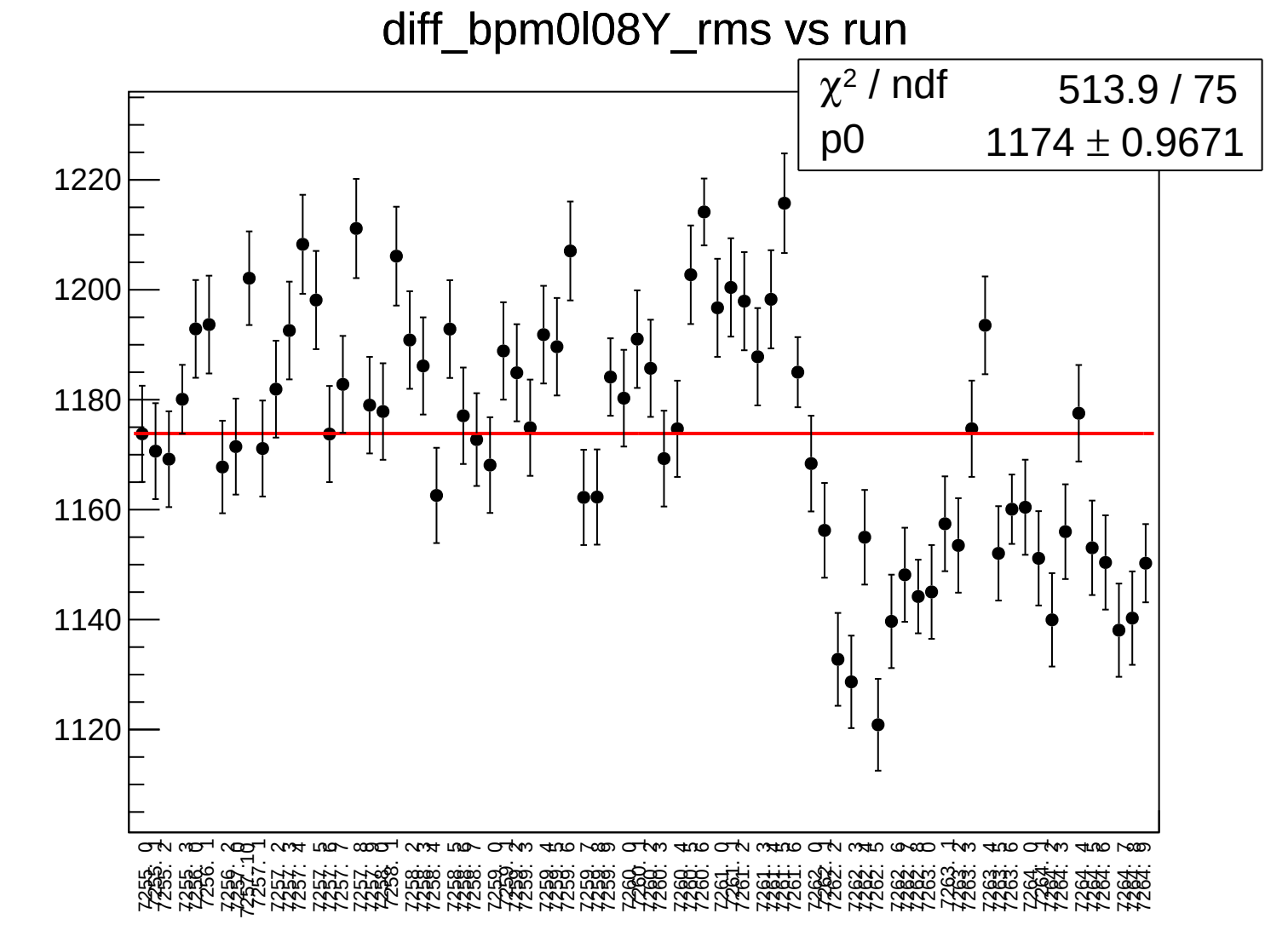

diff_bpm0l08X_mean vs run
χ² / ndf 97.23 / 75
p0 19.56 ± 8.986
pull
Entries 76
Mean −71.62
Std Dev 114.3

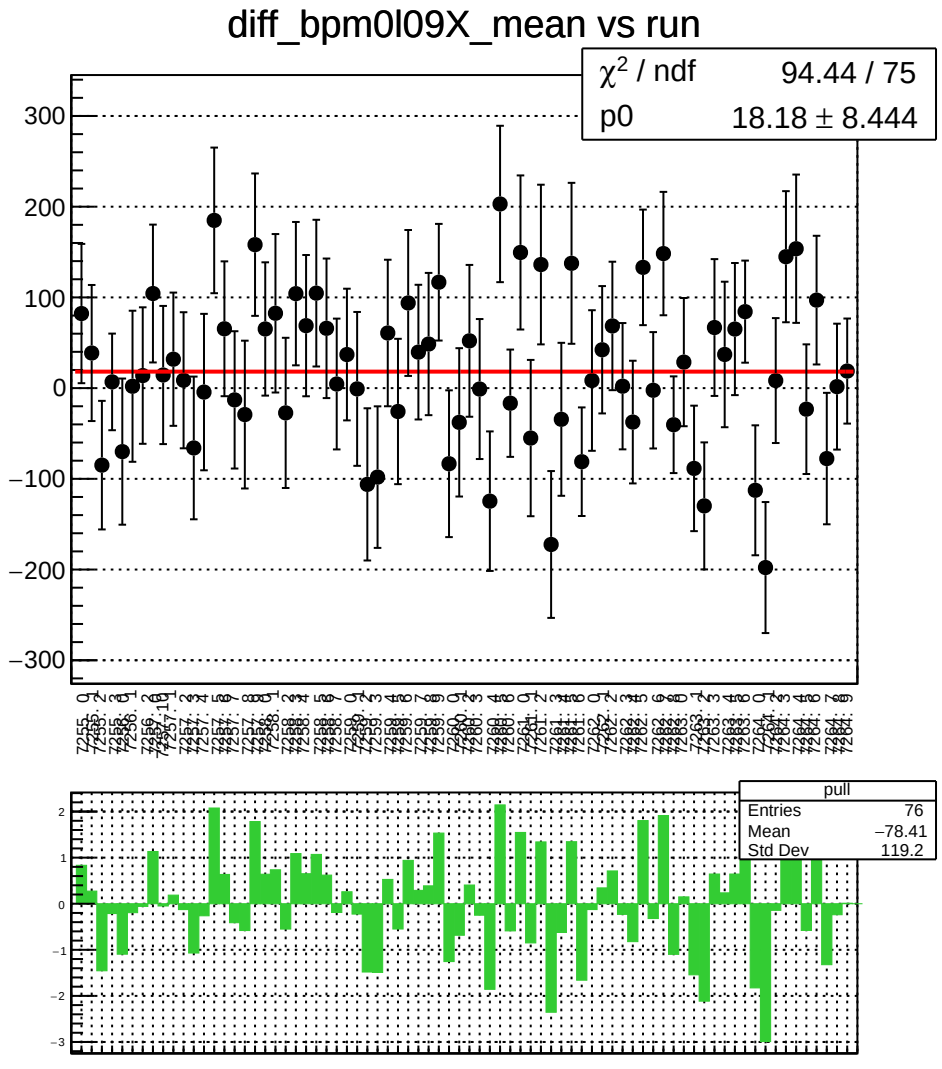

pull1D
Entries 76
Mean 0.01524
Std Dev 1.131

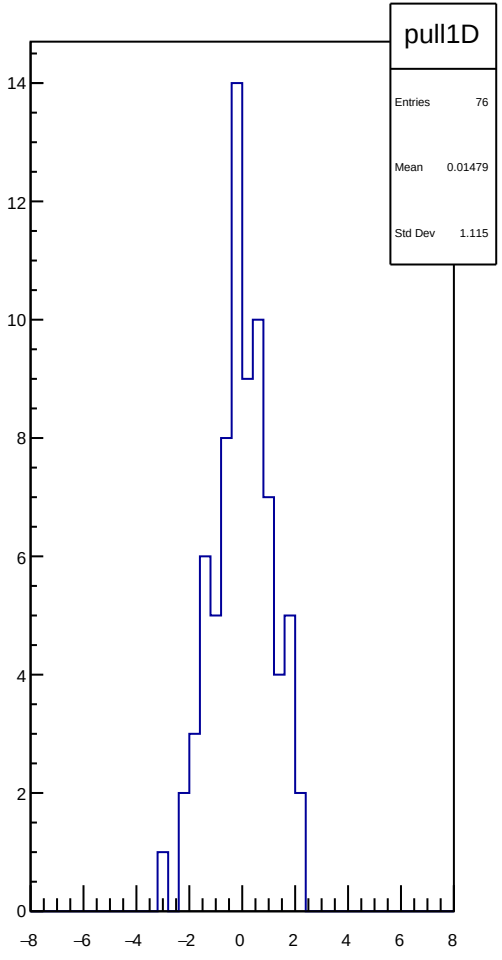

diff_bpm0l08X_rms vs run
χ² / ndf 9463 / 75
p0 7689 ± 6.354
9000
8500
8000
7500
7000
6500

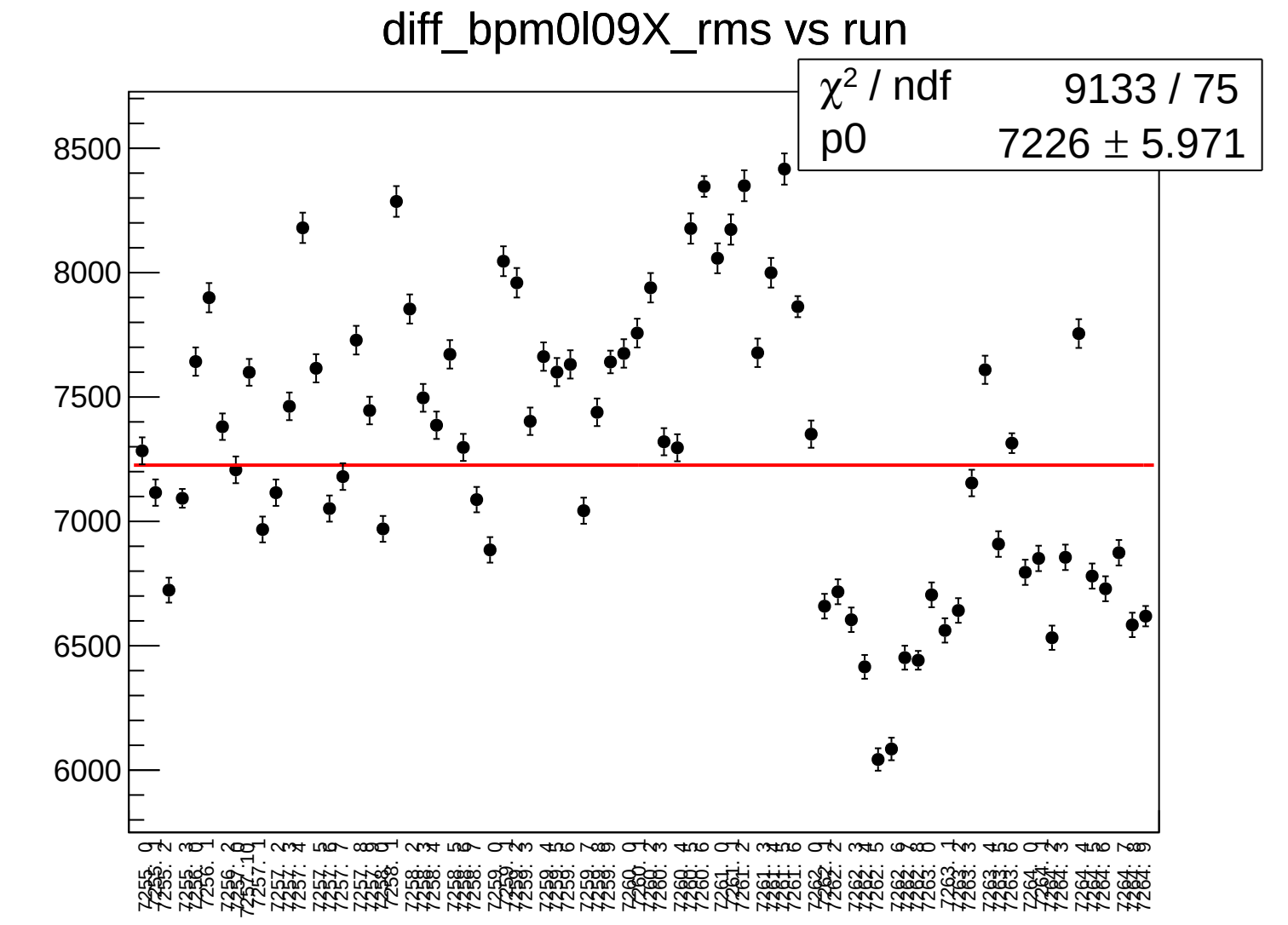

diff_bpm0l08Y_mean vs run
χ² / ndf 78.89 / 75
p0 −2.281± 1.368
pull
Entries 76
Mean −498
Std Dev 536.1

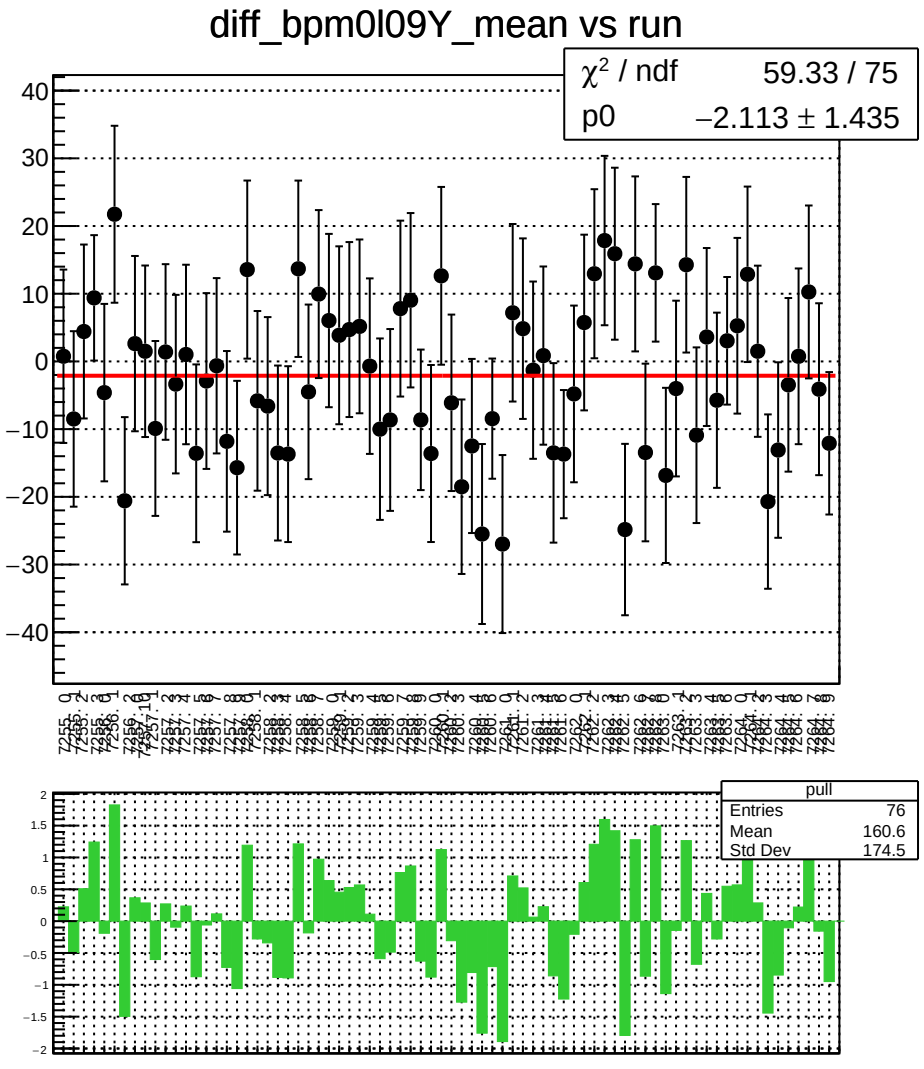

pull1D
Entries 76
Mean 0.004072
Std Dev 1.019

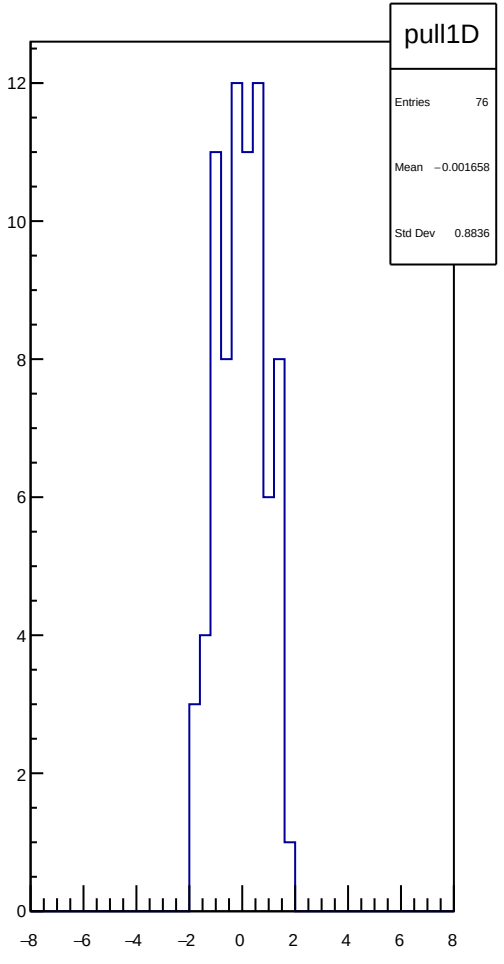

diff_bpm0l08Y_rms vs run
χ² / ndf 513.9 / 75
p0 1174 ± 0.9671
1220
1200
1180
1160
1140
1120

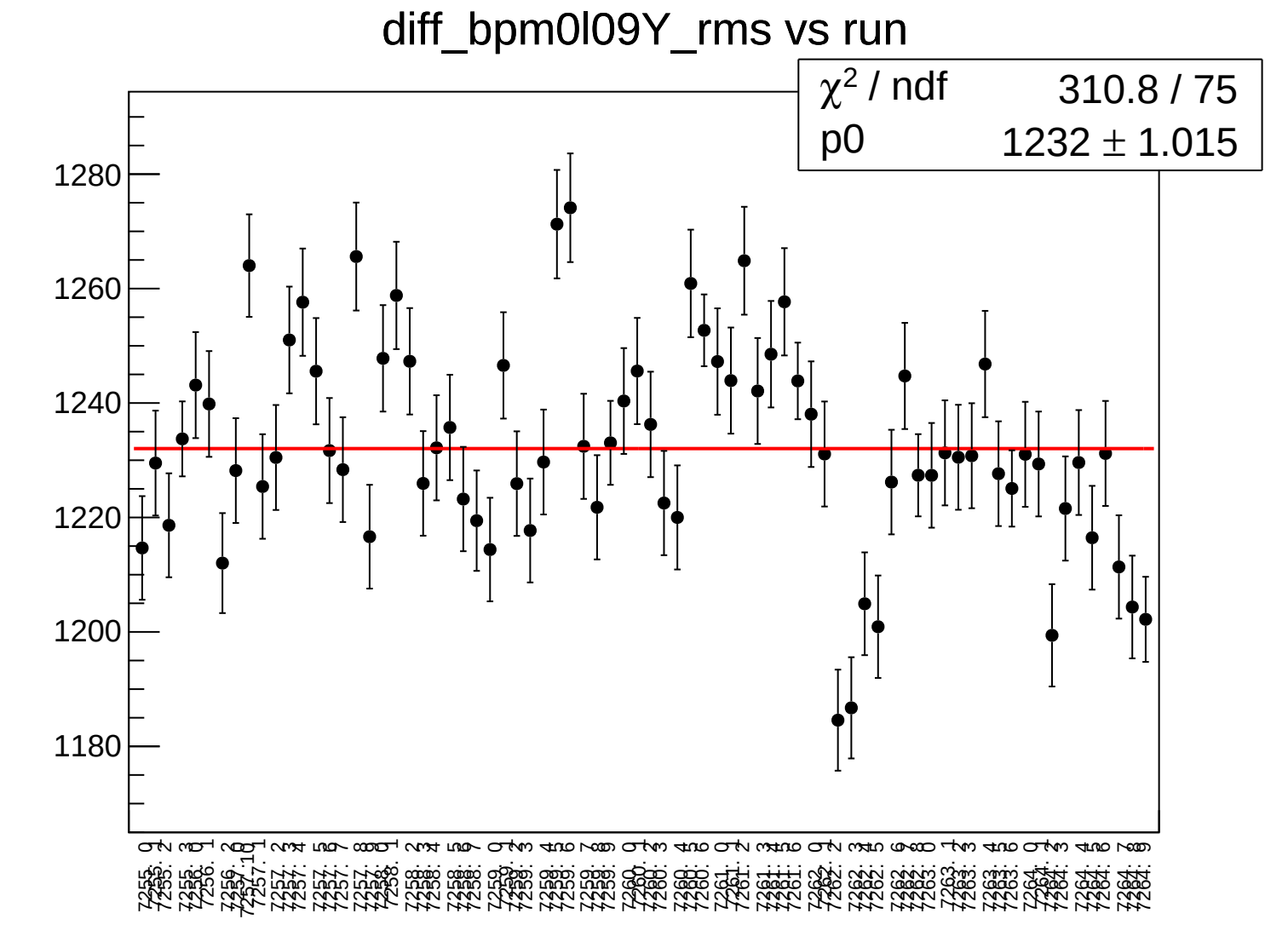

diff_bpm0l09X_mean vs run
χ² / ndf 94.44 / 75
p0 18.18 ± 8.444
pull
Entries 76
Mean −78.41
Std Dev 119.2

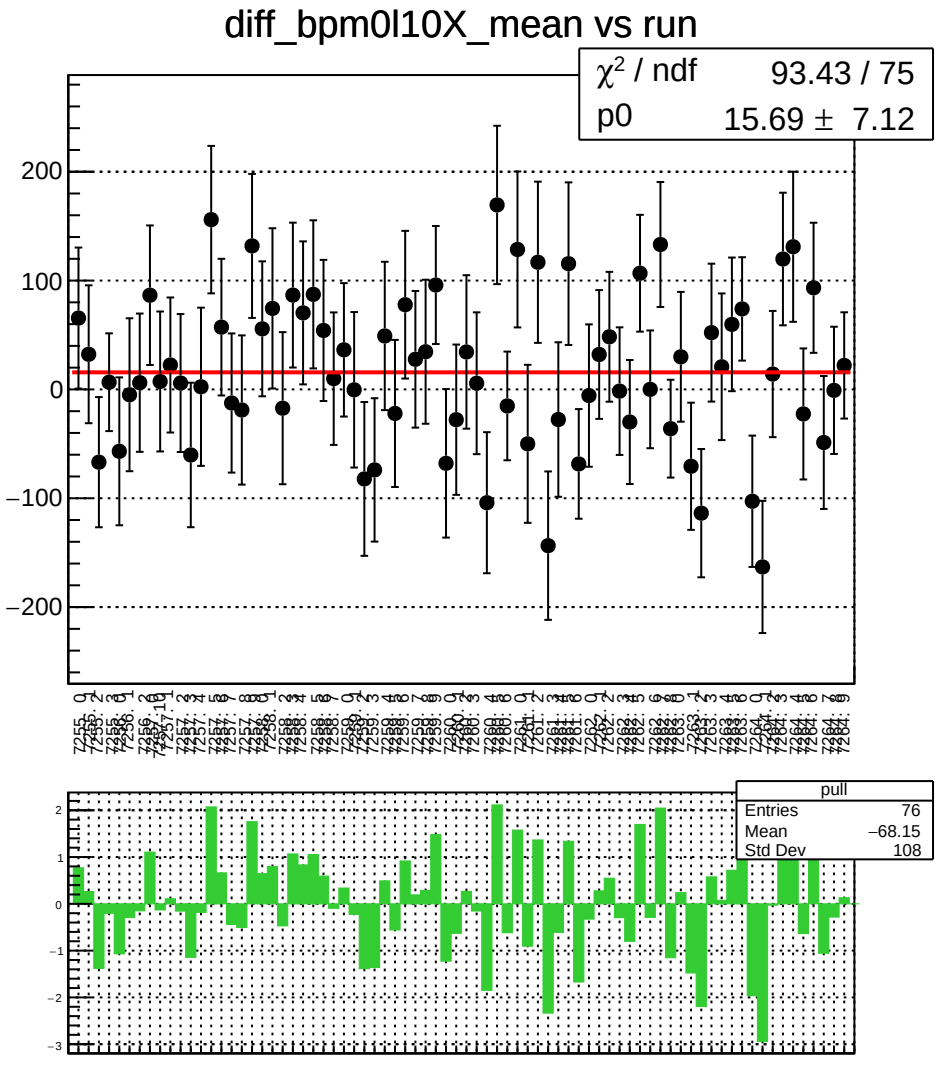

pull1D
Entries 76
Mean 0.01479
Std Dev 1.115

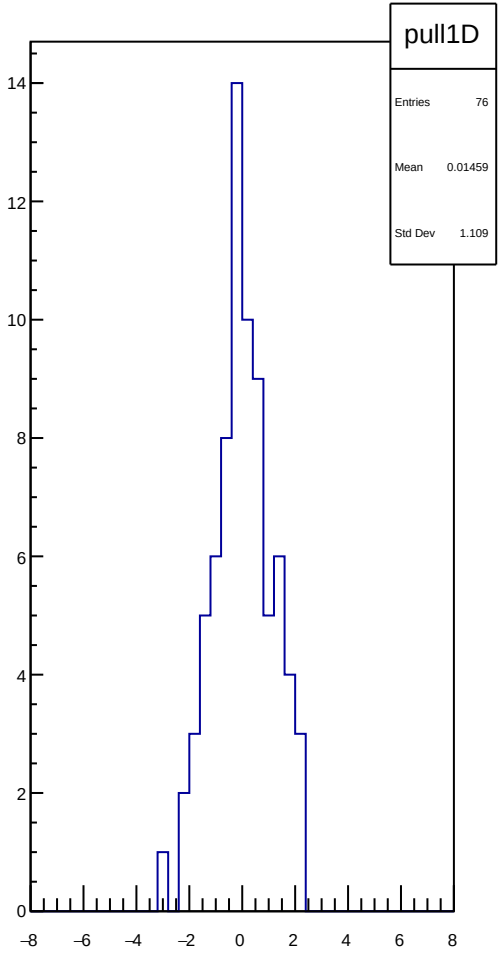

diff_bpm0l09X_rms vs run
χ² / ndf 9133 / 75
p0 7226 ± 5.971
8500
8000
7500
7000
6500
6000

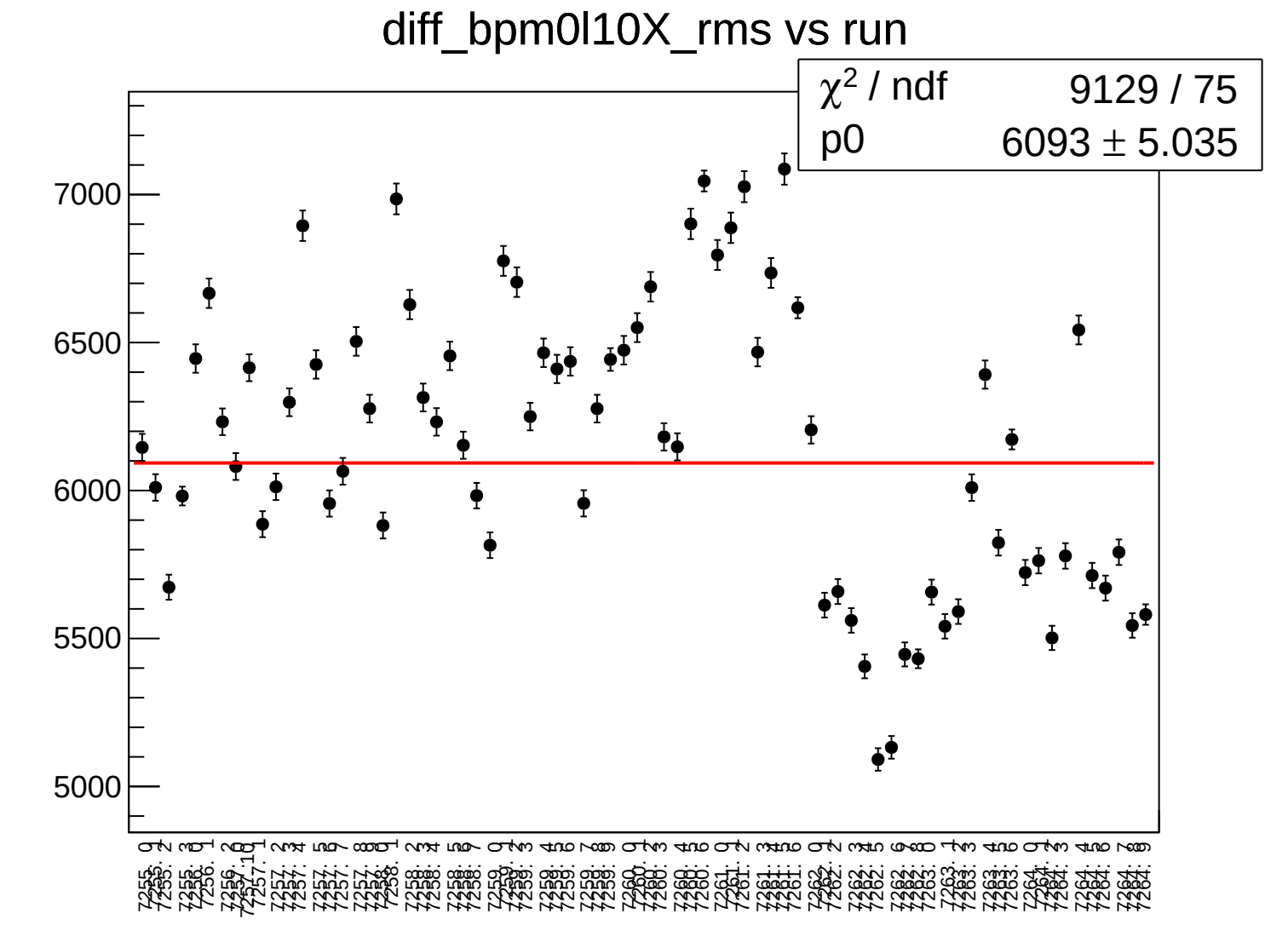

diff_bpm0l09Y_mean vs run
χ² / ndf 59.33 / 75
p0 −2.113 ± 1.435
pull
Entries 76
Mean 160.6
Std Dev 174.5

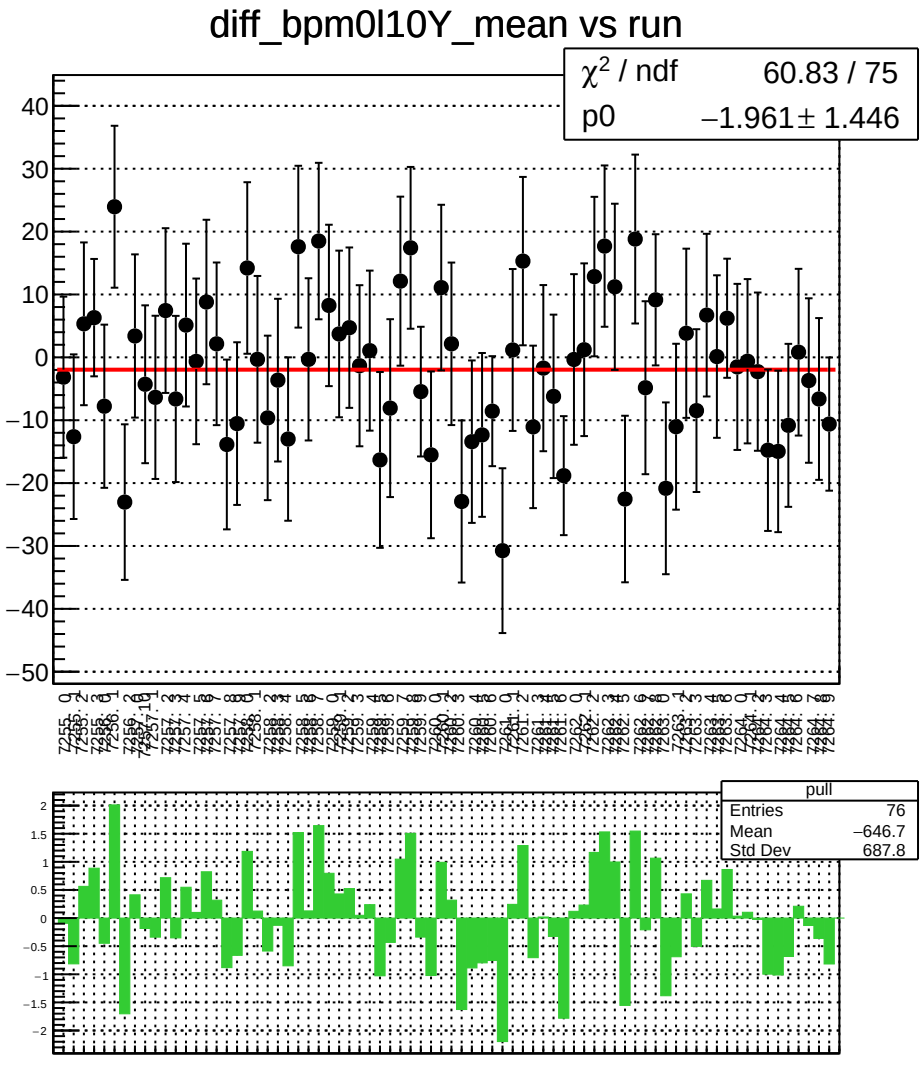

pull1D
Entries 76
Mean −0.001658
Std Dev 0.8836

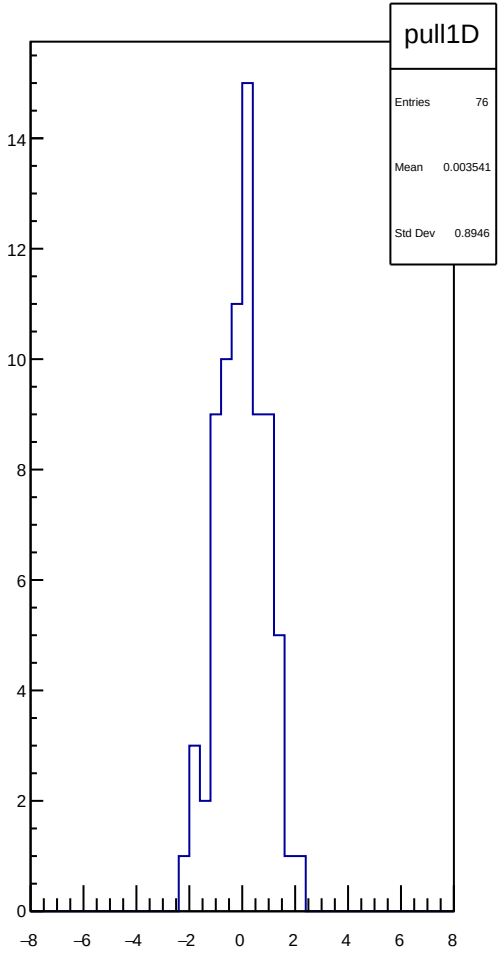

diff_bpm0l09Y_rms vs run
χ² / ndf 310.8 / 75
p0 1232 ± 1.015
1280
1260
1240
1220
1200
1180

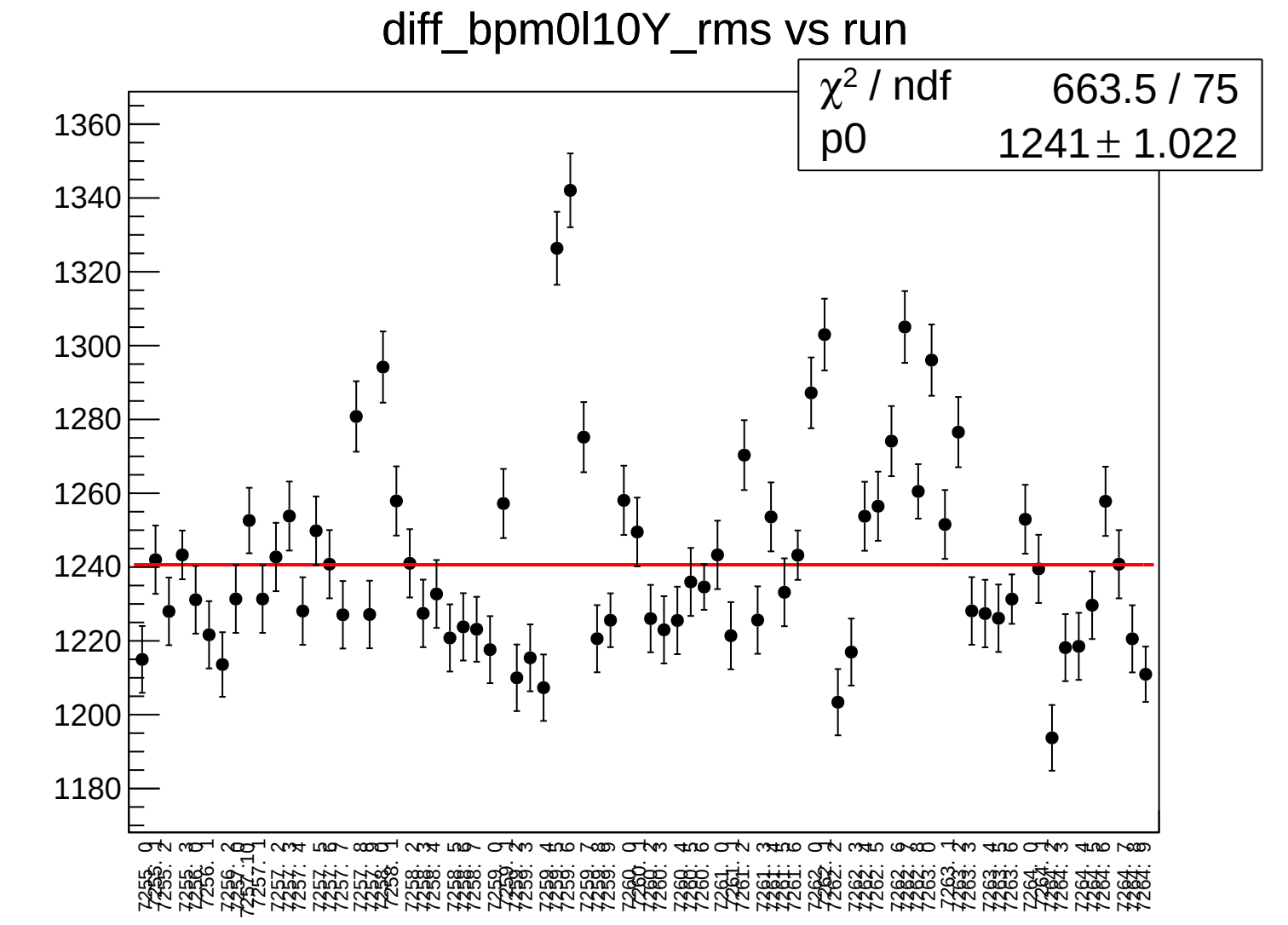

diff_bpm0l10X_mean vs run
χ² / ndf 93.43 / 75
p0 15.69 ± 7.12
200
100
0
−100
−200
pull
Entries 76
Mean −68.15
Std Dev 108
2
1
0
−1
−2
−3

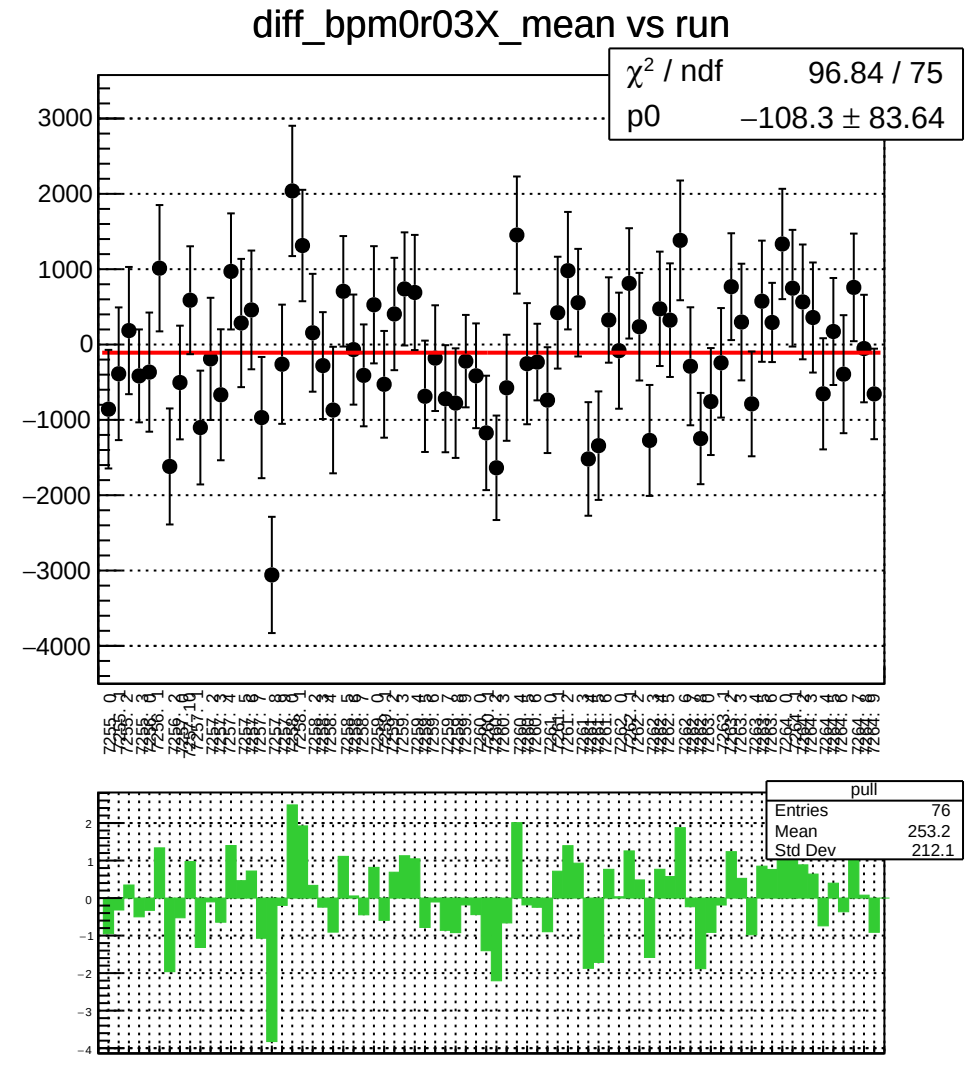

pull1D
Entries 76
Mean 0.01459
Std Dev 1.109
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

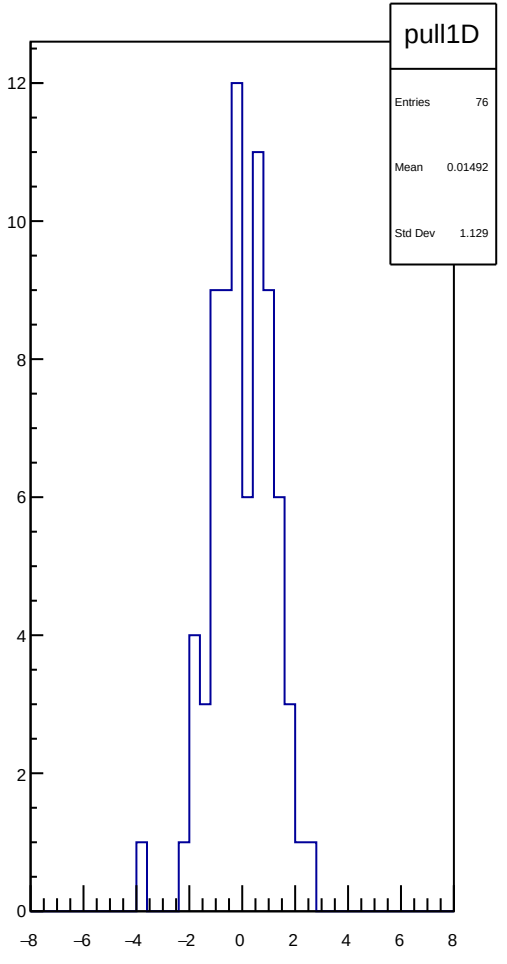

diff_bpm0l10X_rms vs run
χ^2 / ndf 9129 / 75
p0 6093 ± 5.035
7000
6500
6000
5500
5000

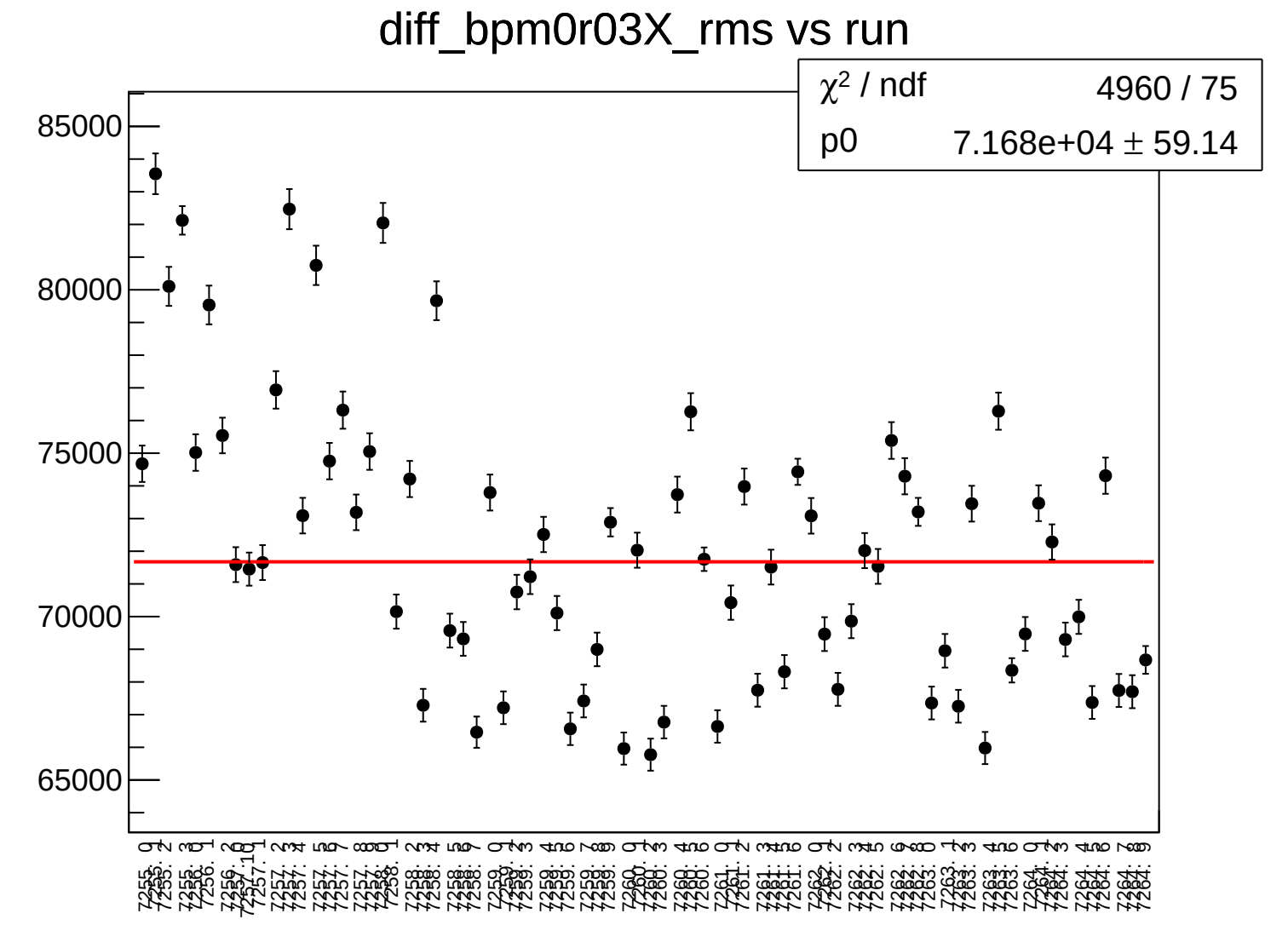

diff_bpm0l10Y_mean vs run
χ² / ndf 60.83 / 75
p0 −1.961 ± 1.446
pull
Entries 76
Mean −646.7
Std Dev 687.8

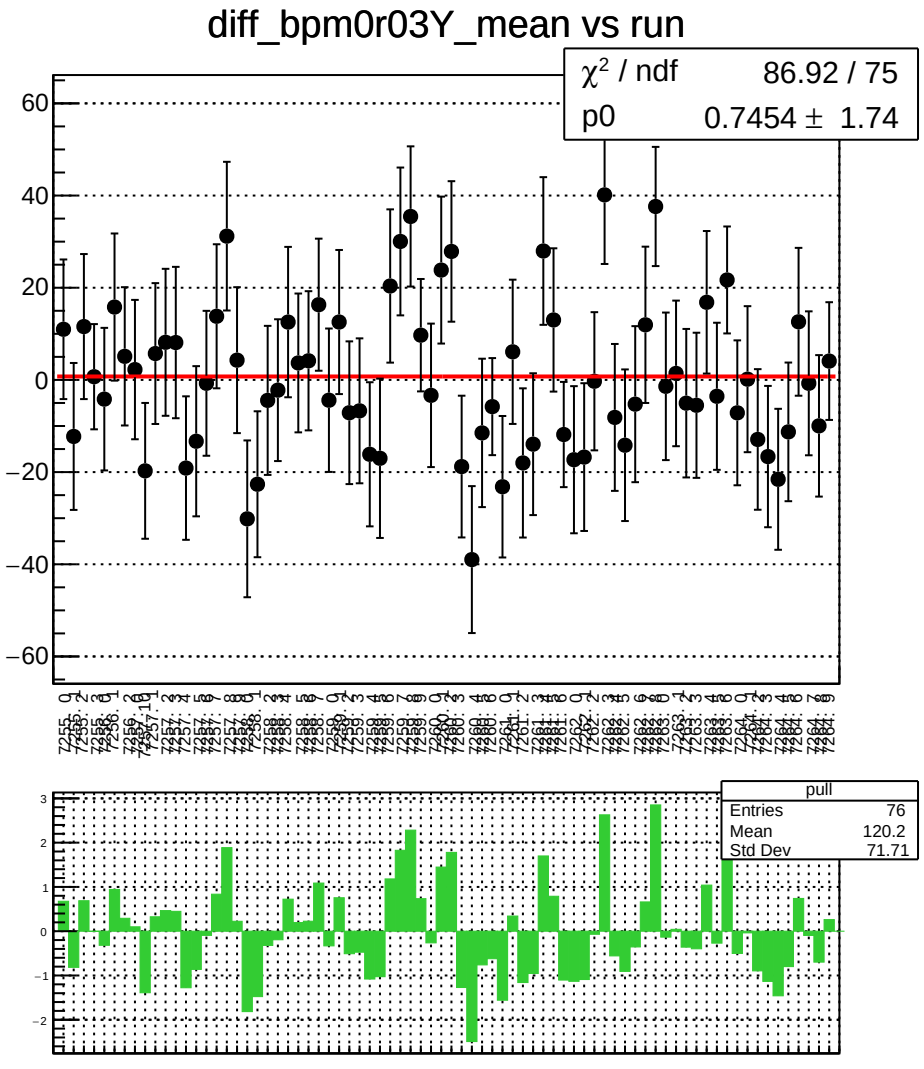

pull1D
Entries 76
Mean 0.003541
Std Dev 0.8946

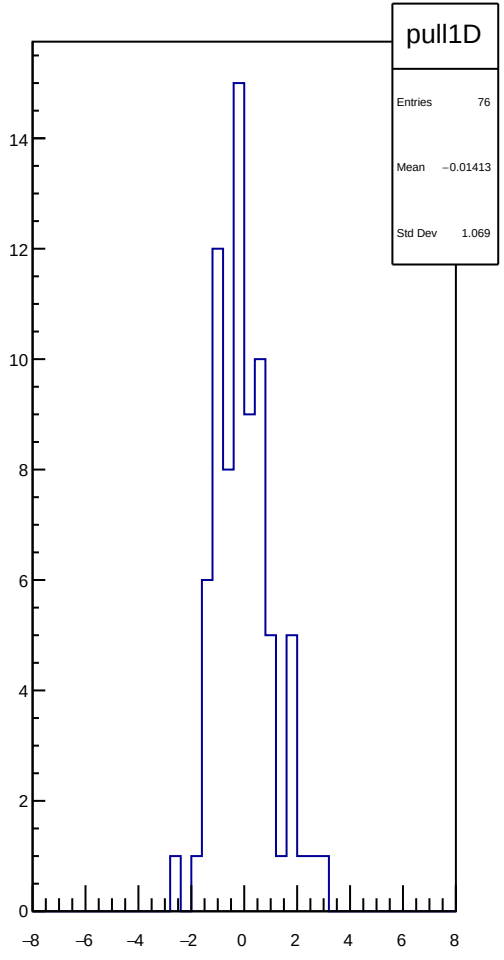

diff_bpm0l10Y_rms vs run
χ² / ndf 663.5 / 75
p0 1241 ± 1.022
1360
1340
1320
1300
1280
1260
1240
1220
1200
1180

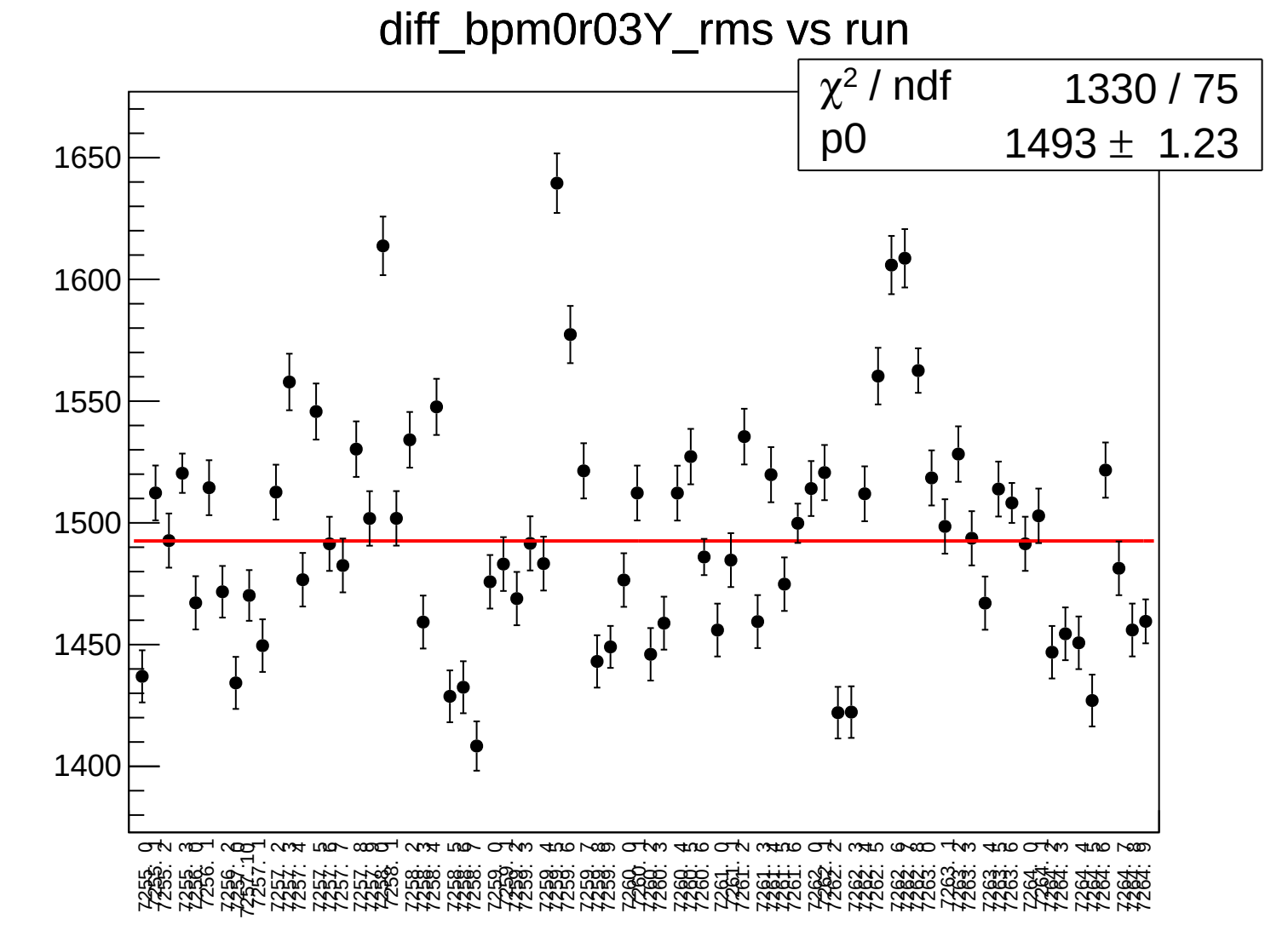

diff_bpm0r03X_mean vs run
χ² / ndf 96.84 / 75
p0 −108.3 ± 83.64
pull
Entries 76
Mean 253.2
Std Dev 212.1

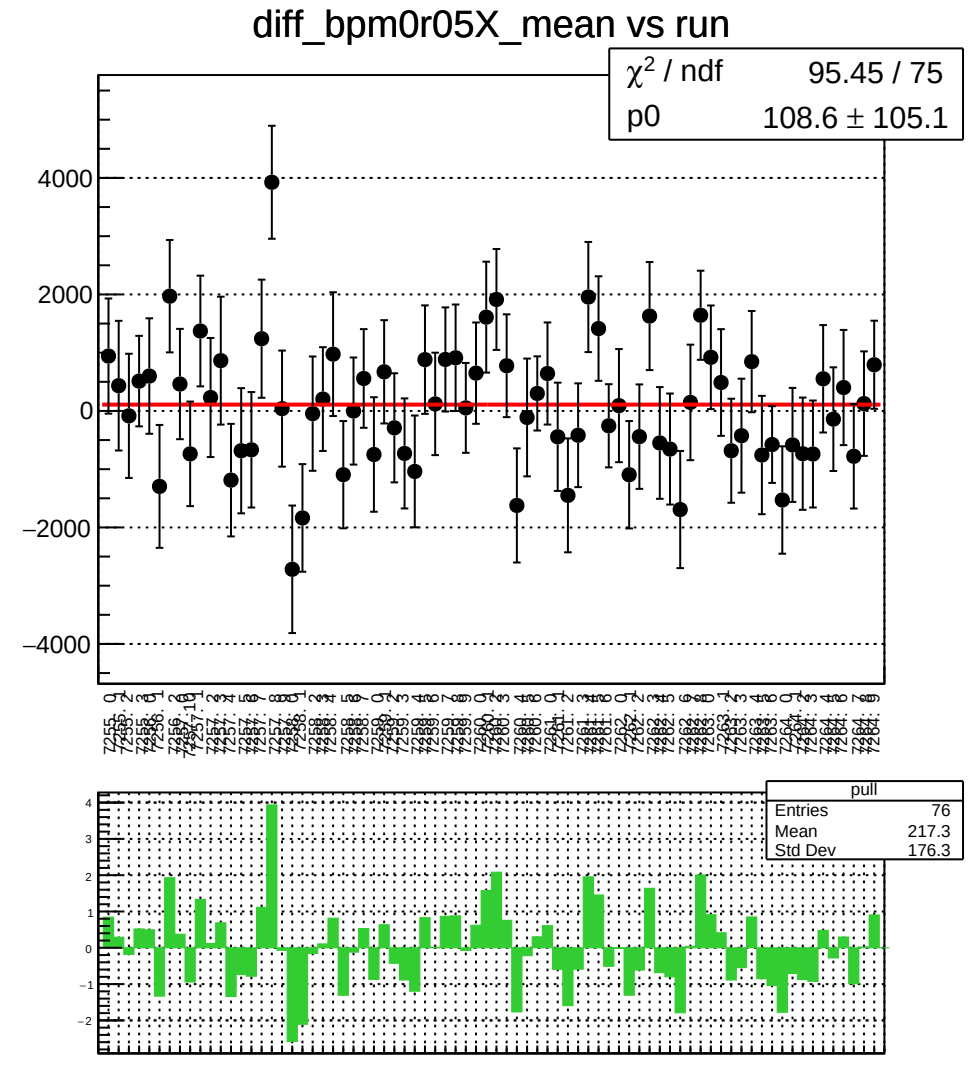

pull1D
Entries 76
Mean 0.01492
Std Dev 1.129

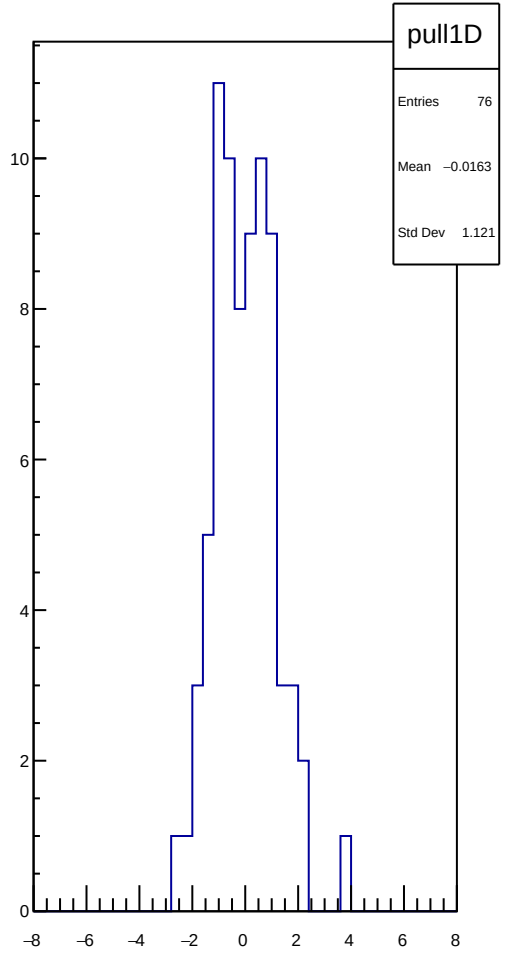

diff_bpm0r03X_rms vs run
χ² / ndf 4960 / 75
p0 7.168e+04 ± 59.14
85000
80000
75000
70000
65000

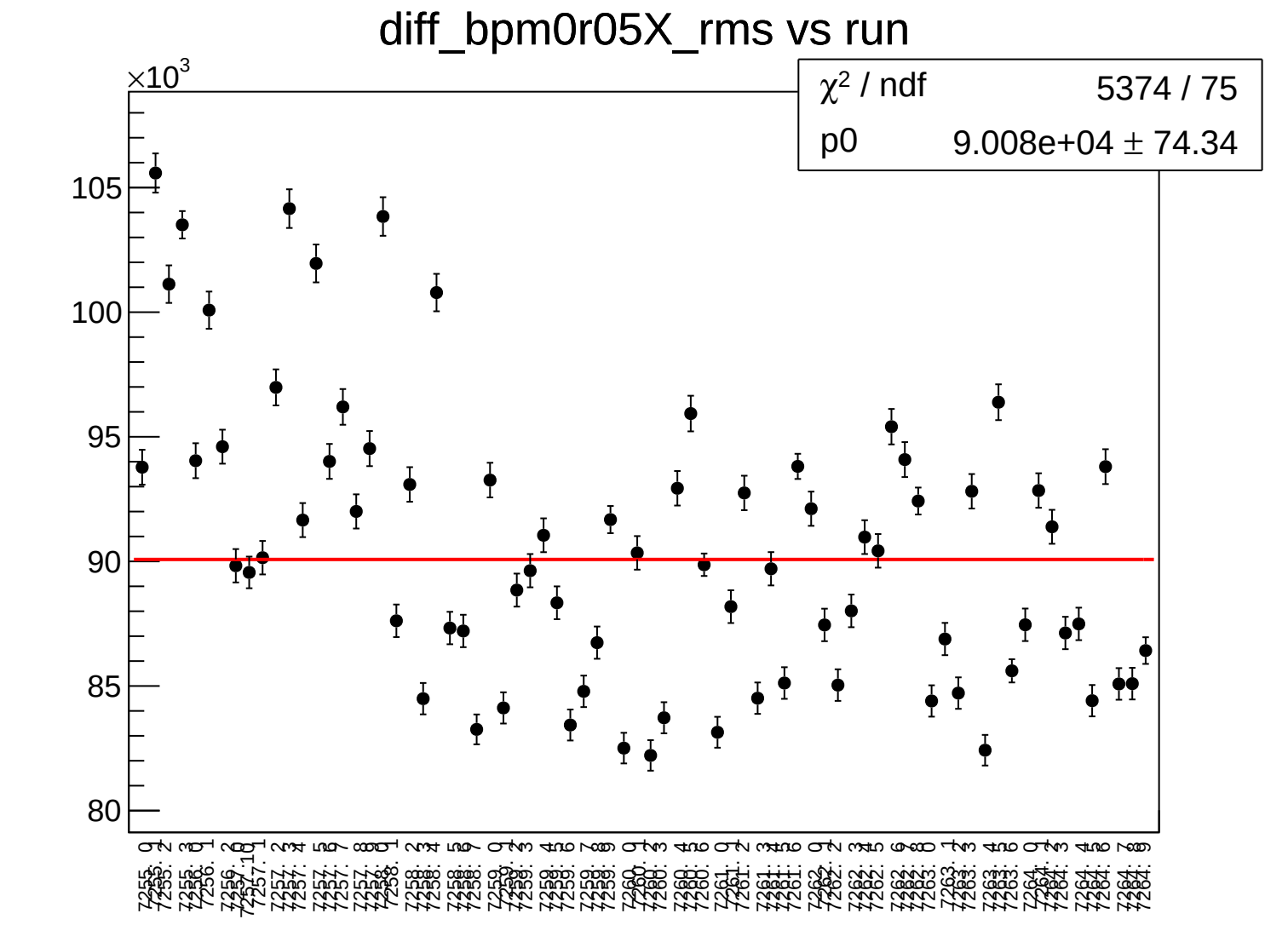

diff_bpm0r03Y_mean vs run
χ² / ndf 86.92 / 75
p0 0.7454 ± 1.74
pull
Entries 76
Mean 120.2
Std Dev 71.71

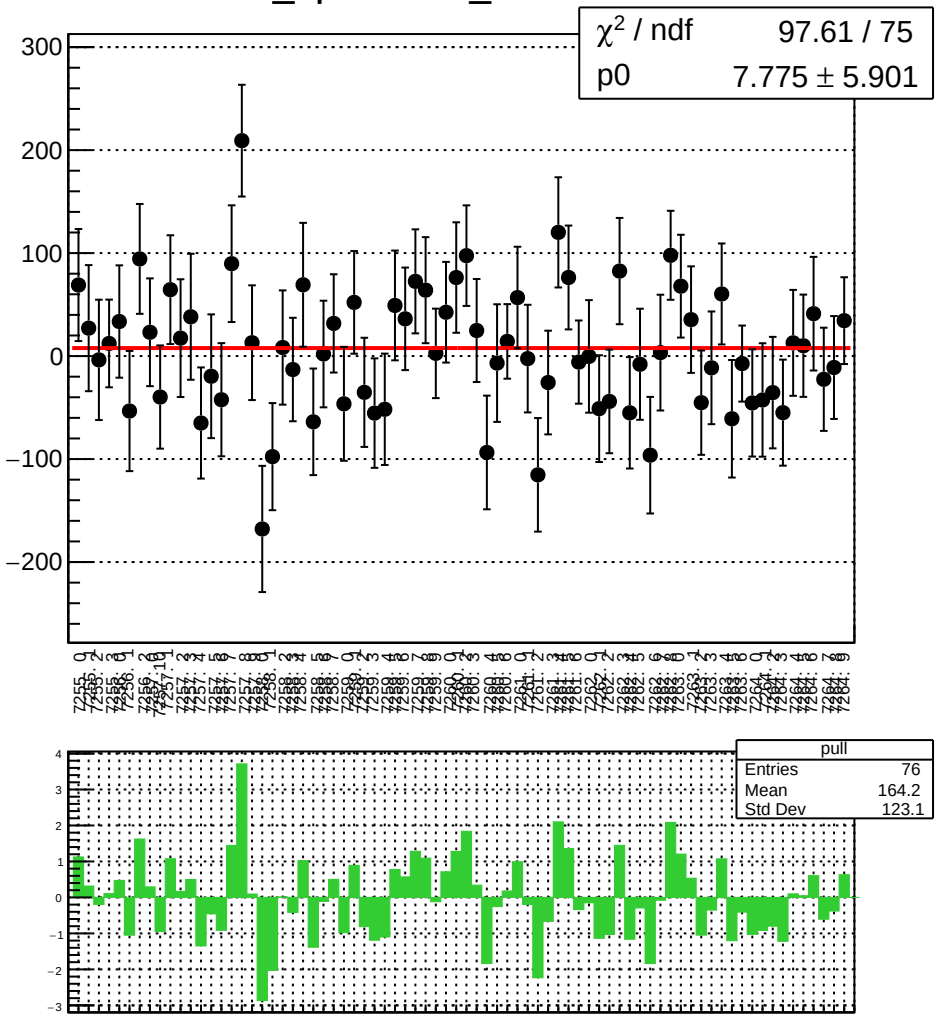

pull1D
Entries 76
Mean −0.01413
Std Dev 1.069

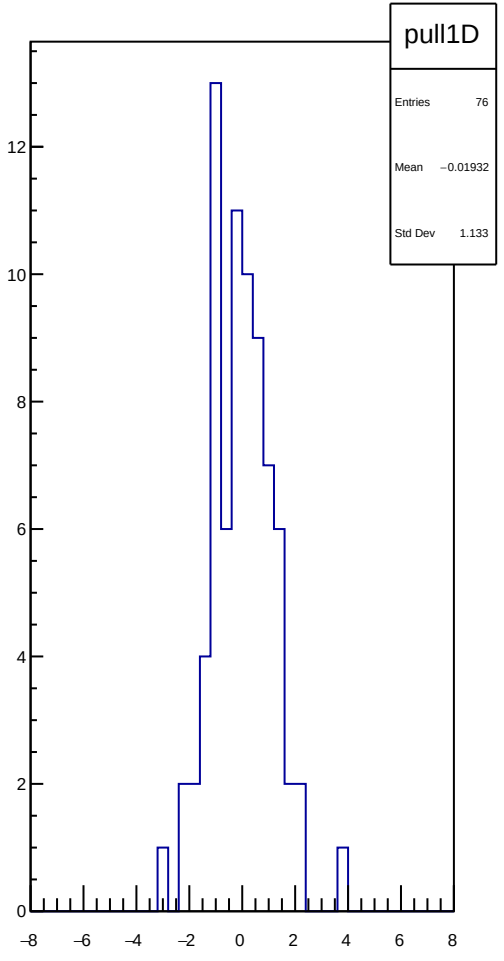

diff_bpm0r03Y_rms vs run
χ² / ndf 1330 / 75
p0 1493 ± 1.23
1650
1600
1550
1500
1450
1400

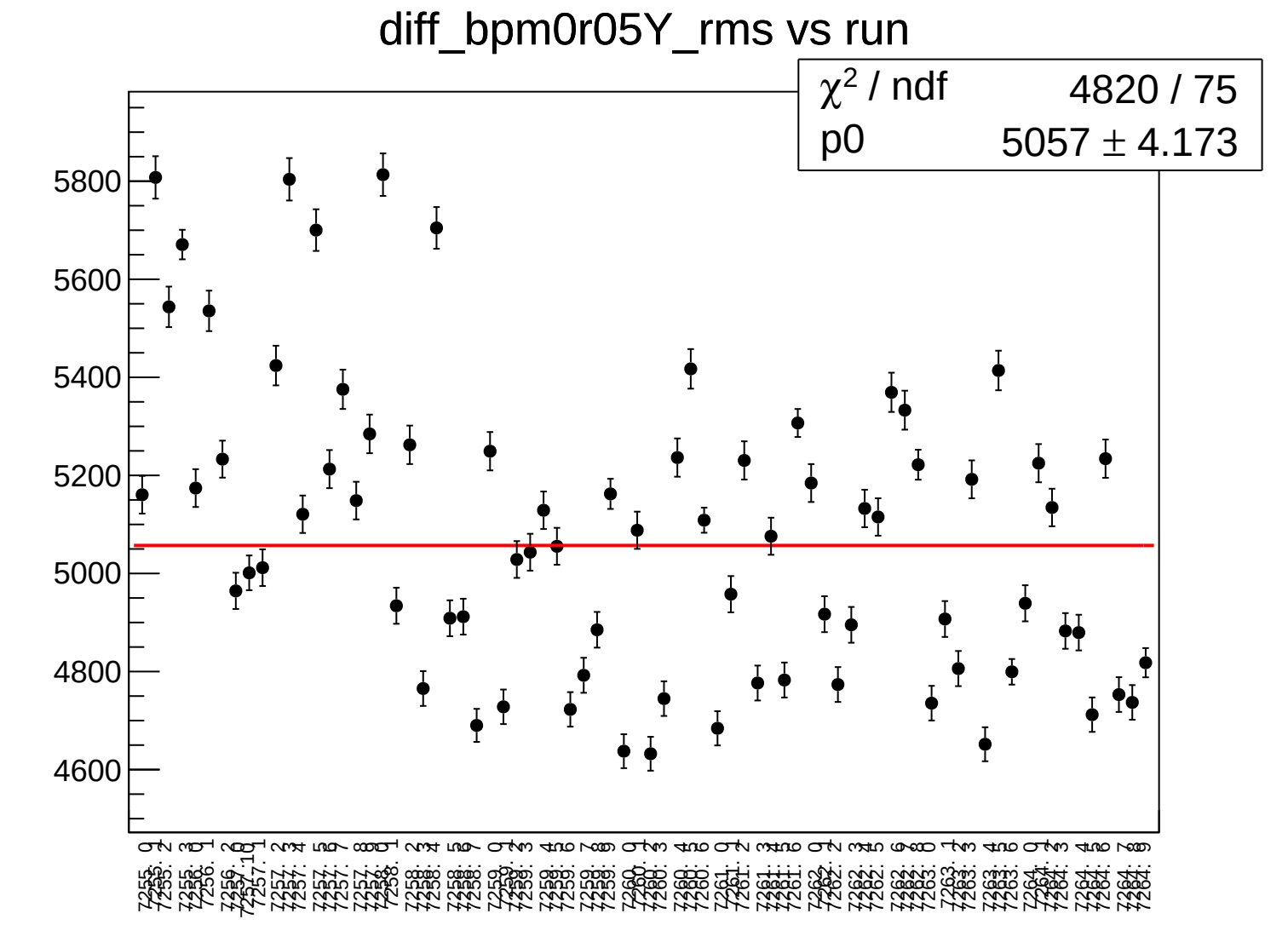

diff_bpm0r05X_mean vs run
χ^2 / ndf 95.45 / 75
p0 108.6 ± 105.1
4000
2000
0
−2000
−4000
pull
Entries 76
Mean 217.3
Std Dev 176.3
4
3
2
1
0
−1
−2

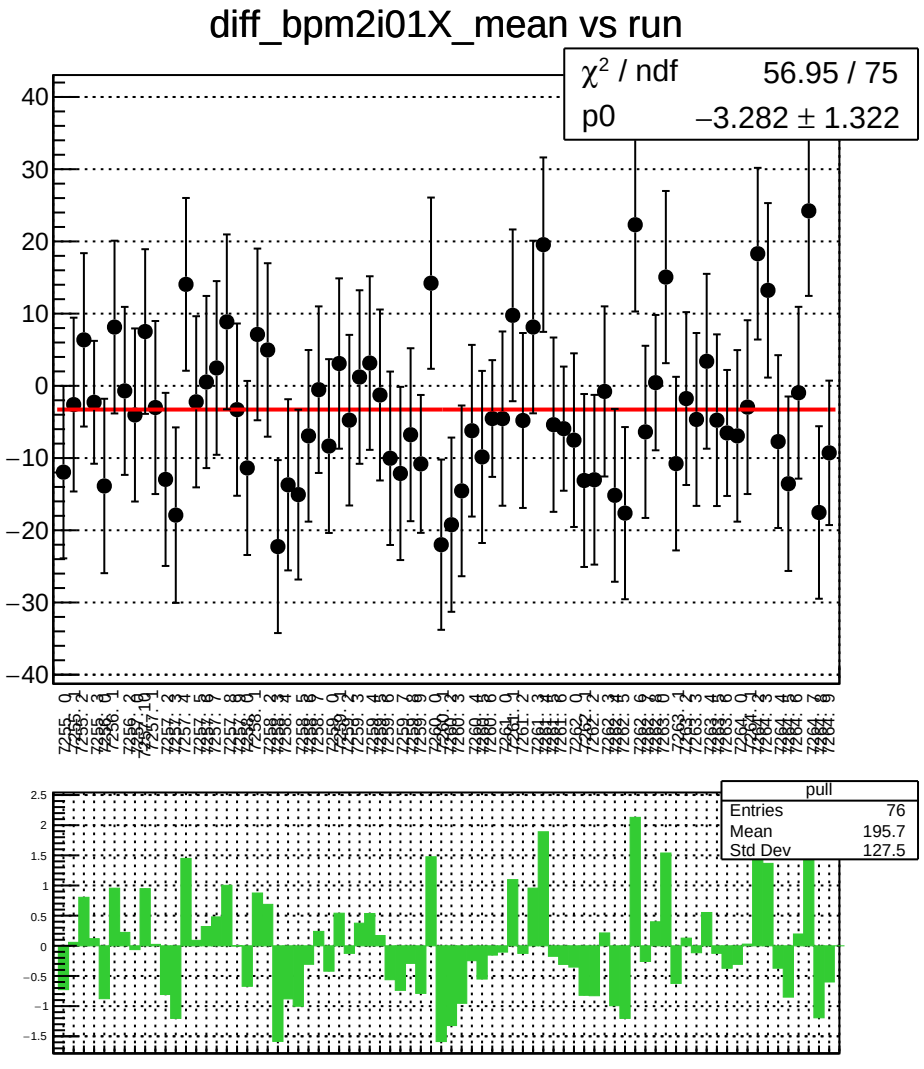

pull1D
Entries 76
Mean −0.0163
Std Dev 1.121
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

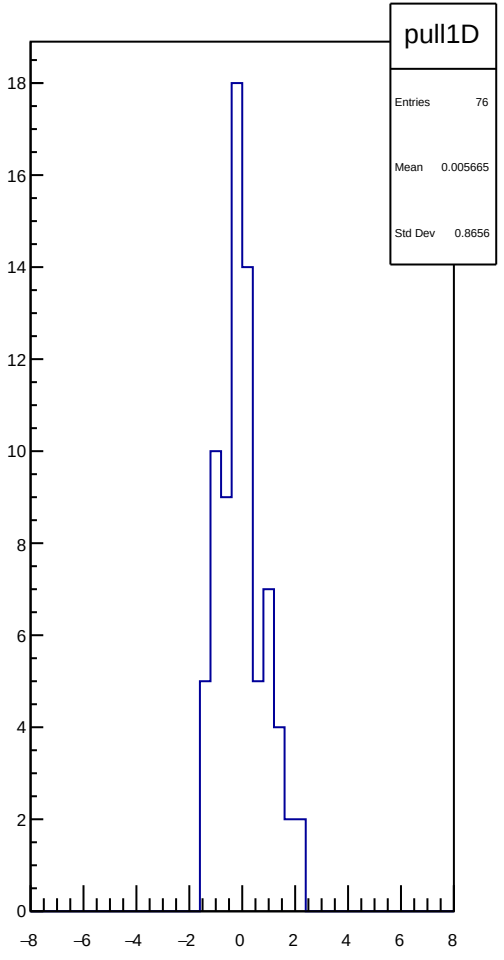

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 5374 / 75
p0 9.008e+04 ± 74.34
105
100
95
90
85
80

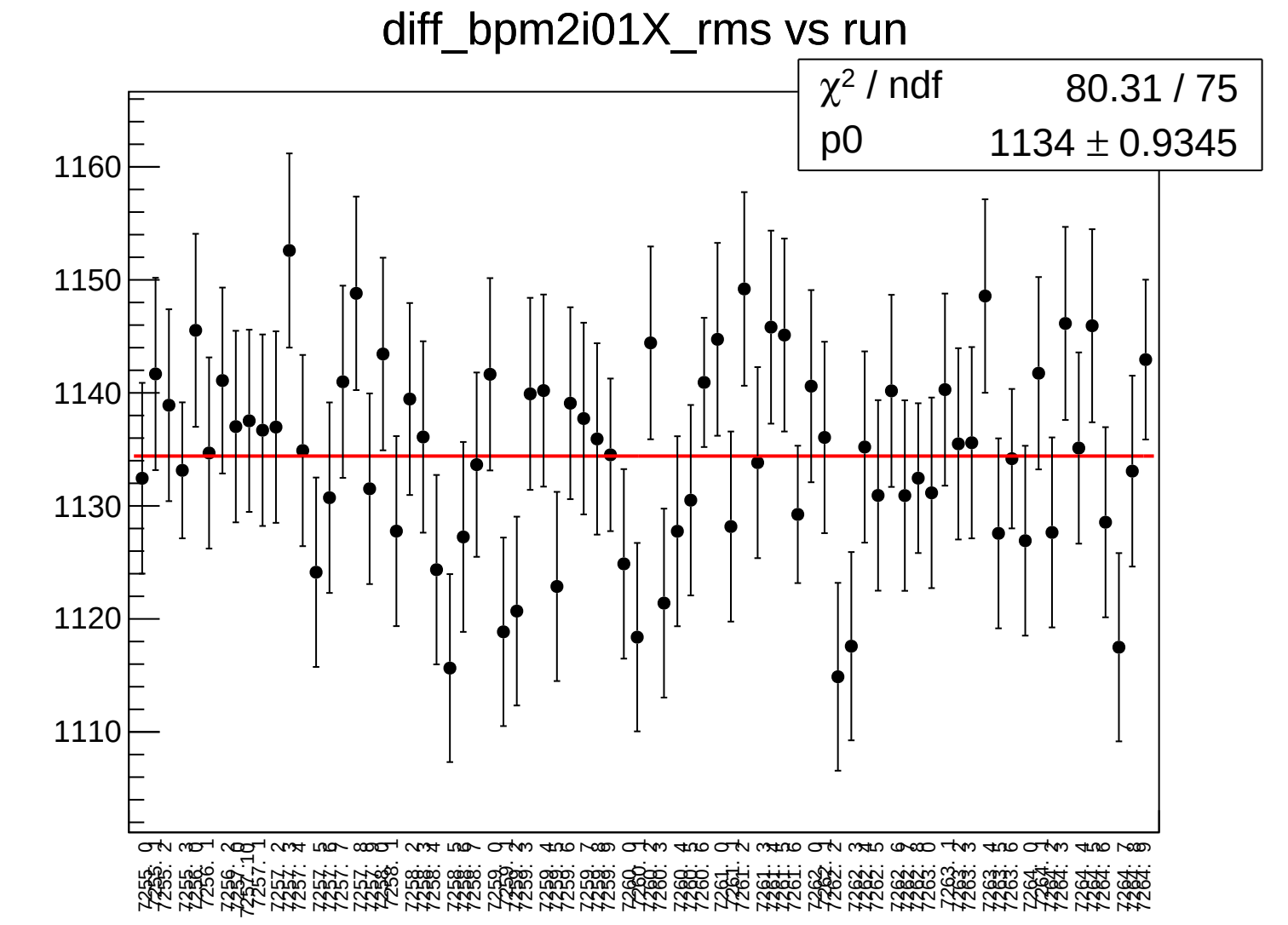

diff_bpm0r05Y_mean vs run
χ^2 / ndf 97.61 / 75
p0 7.775 ± 5.901
pull
Entries 76
Mean 164.2
Std Dev 123.1

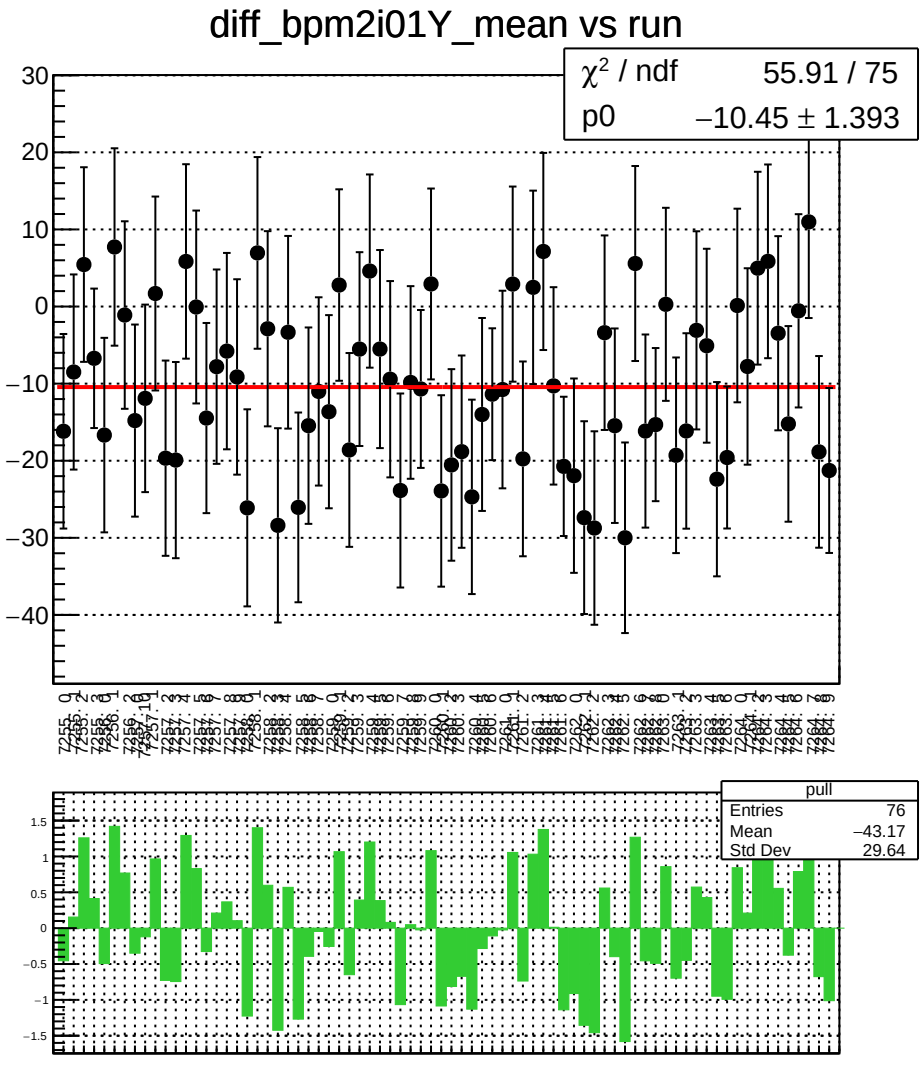

pull1D
Entries 76
Mean −0.01932
Std Dev 1.133

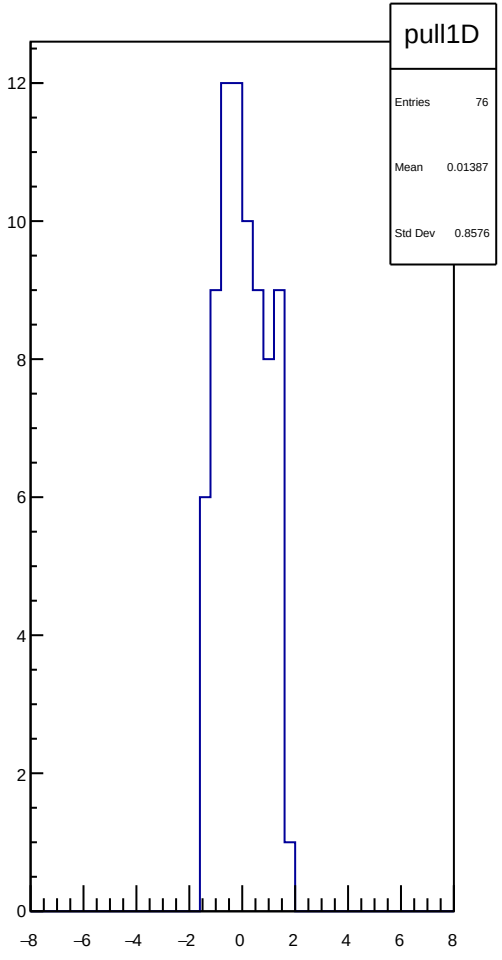

diff_bpm0r05Y_rms vs run
χ² / ndf 4820 / 75
p0 5057 ± 4.173
5800
5600
5400
5200
5000
4800
4600

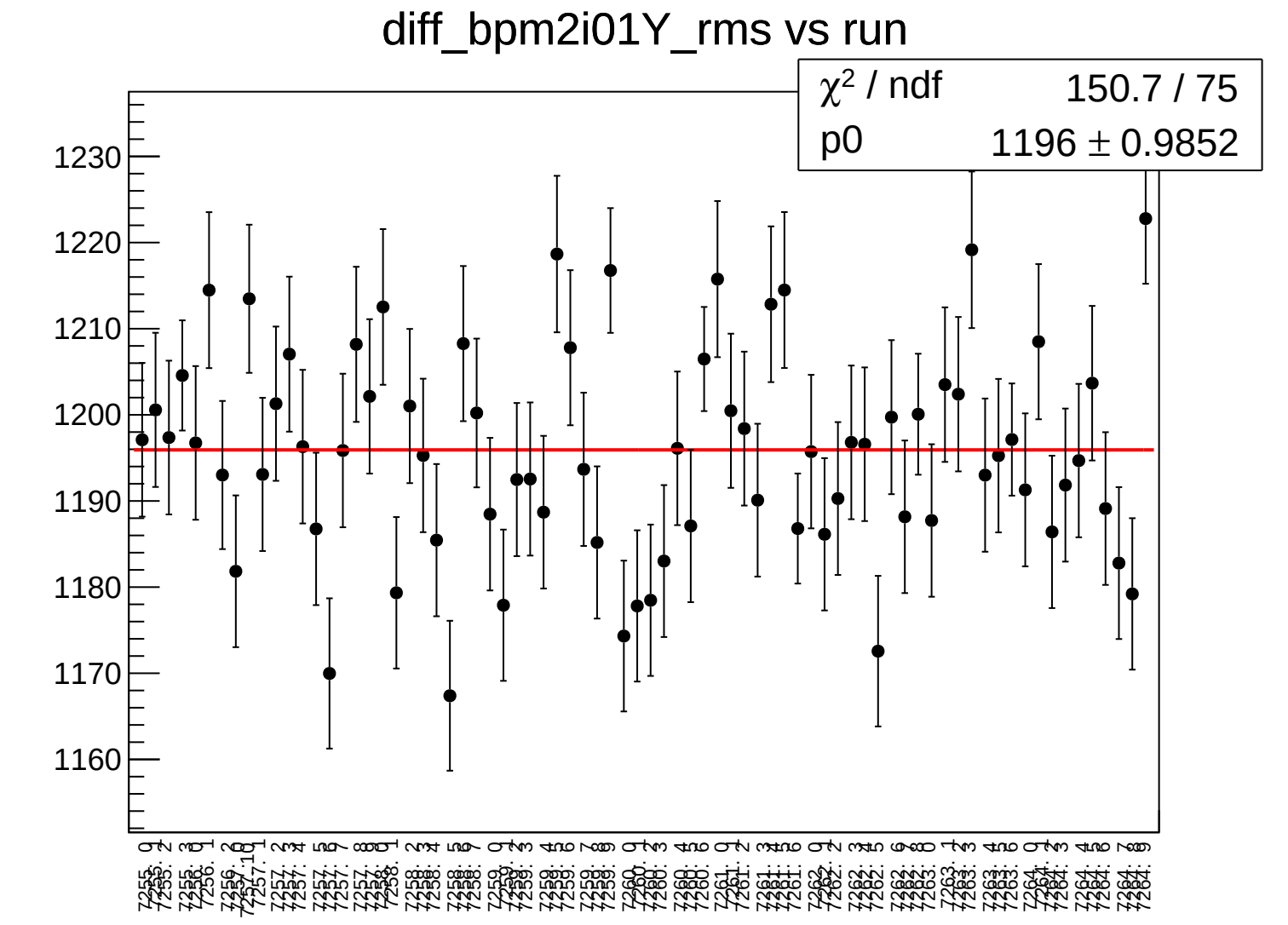

diff_bpm2i01X_mean vs run
χ² / ndf 56.95 / 75
p0 −3.282 ± 1.322
pull
Entries 76
Mean 195.7
Std Dev 127.5

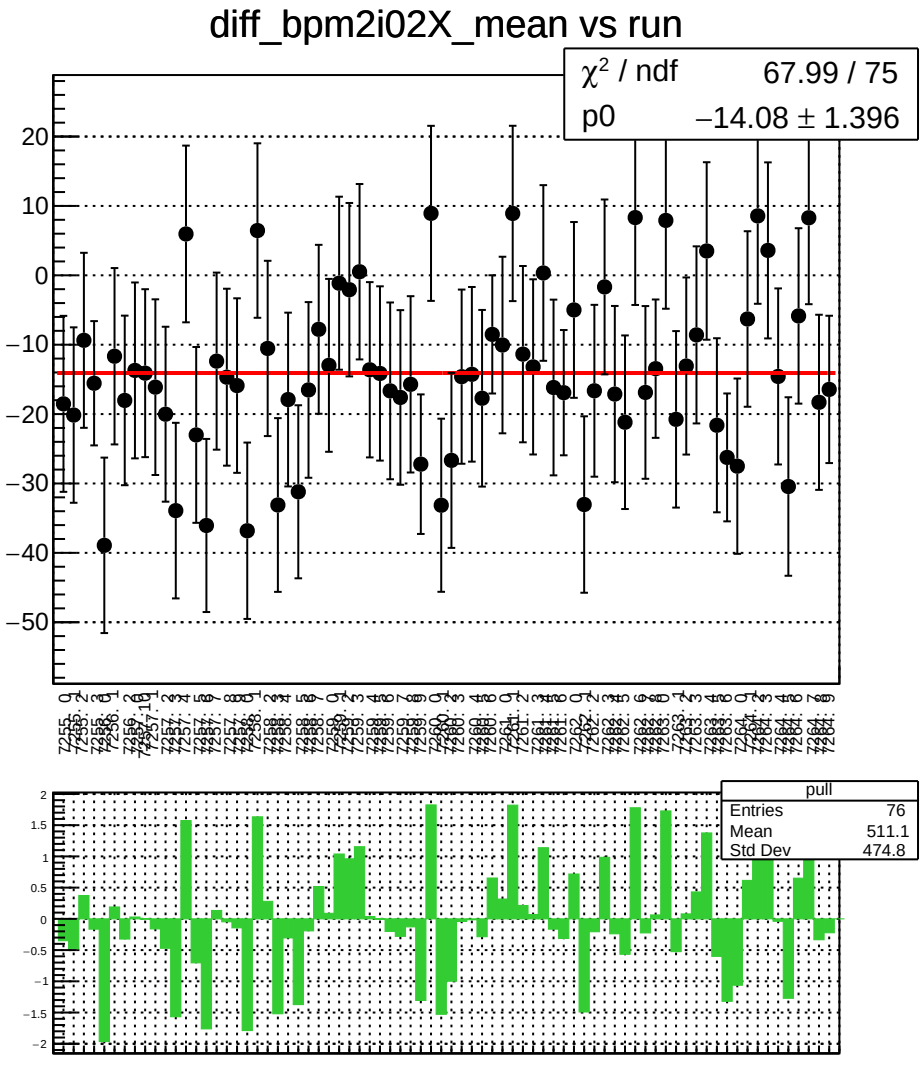

pull1D
Entries 76
Mean 0.005665
Std Dev 0.8656

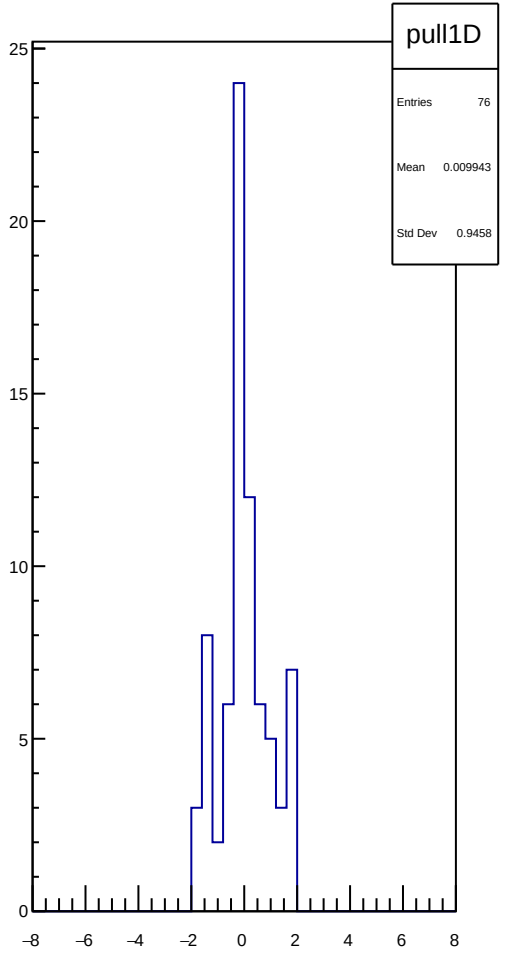

diff_bpm2i01X_rms vs run
χ² / ndf 80.31 / 75
p0 1134 ± 0.9345
1160
1150
1140
1130
1120
1110

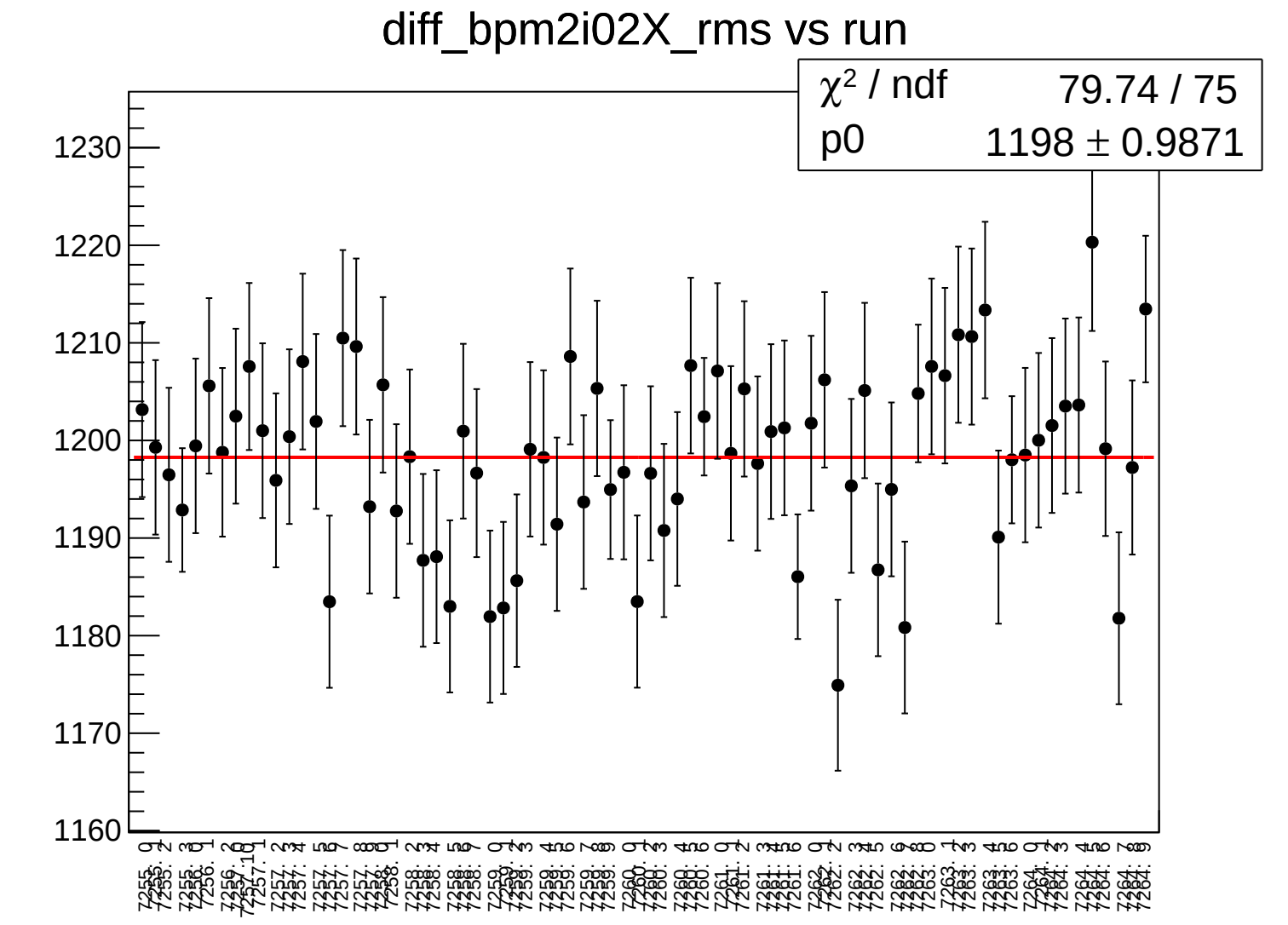

diff_bpm2i01Y_mean vs run
χ² / ndf 55.91 / 75
p0 −10.45 ± 1.393
pull
Entries 76
Mean −43.17
Std Dev 29.64

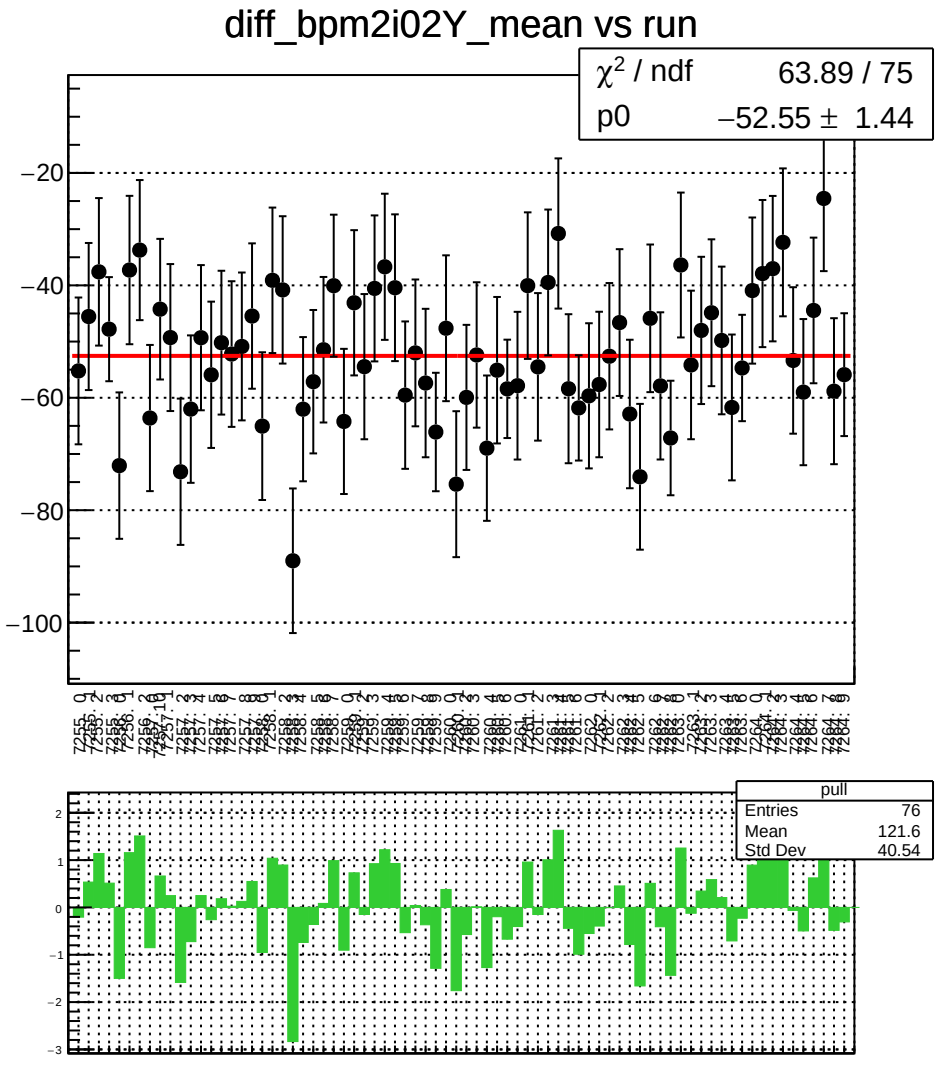

pull1D
Entries 76
Mean 0.01387
Std Dev 0.8576

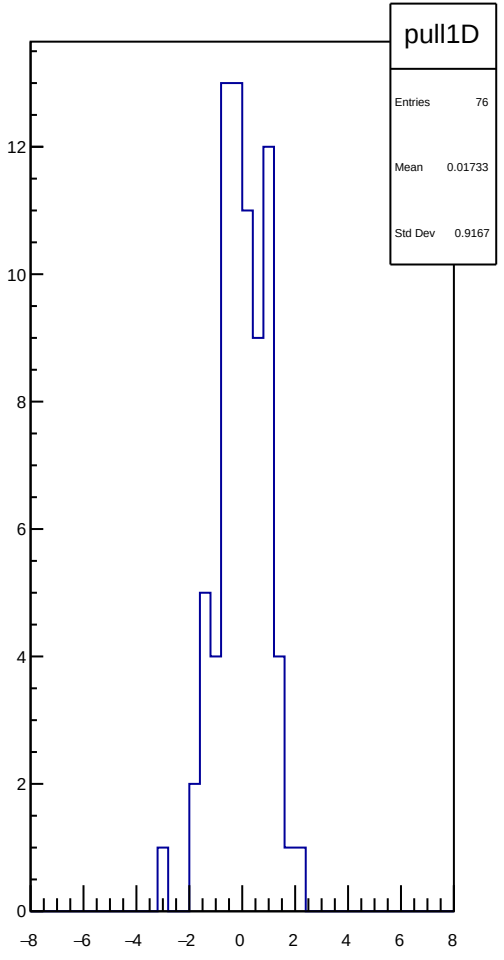

diff_bpm2i01Y_rms vs run
χ² / ndf 150.7 / 75
p0 1196 ± 0.9852
1230
1220
1210
1200
1190
1180
1170
1160

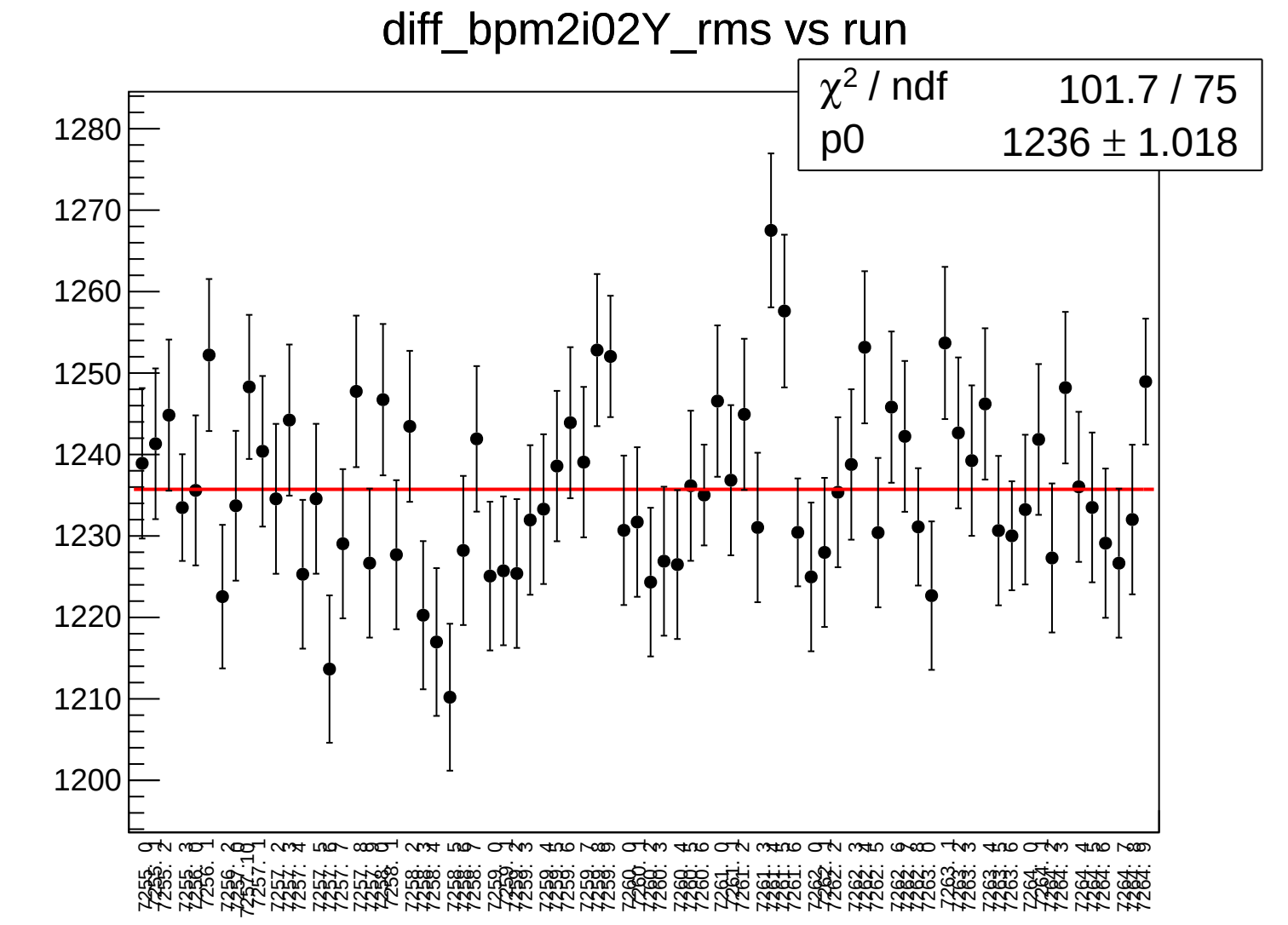

diff_bpm2i02X_mean vs run
χ² / ndf 67.99 / 75
p0 −14.08 ± 1.396
pull
Entries 76
Mean 511.1
Std Dev 474.8

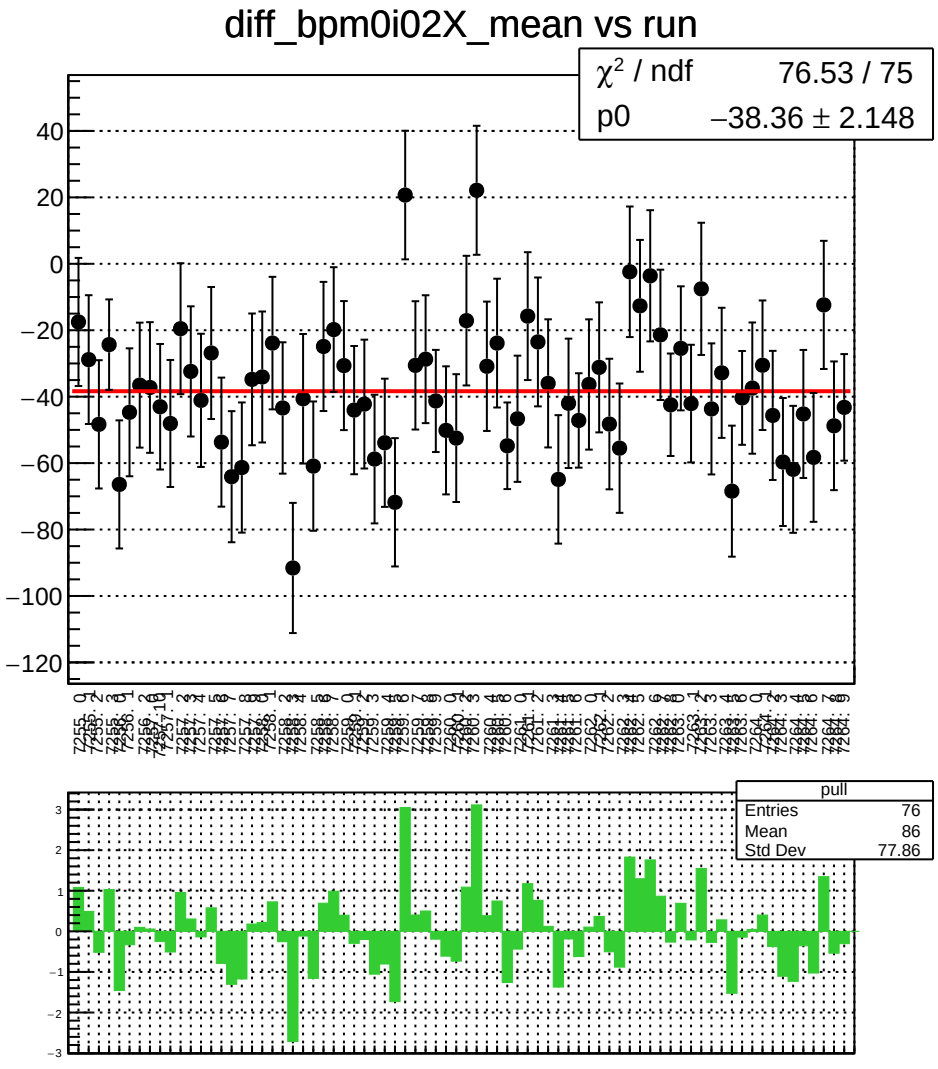

pull1D
Entries 76
Mean 0.009943
Std Dev 0.9458

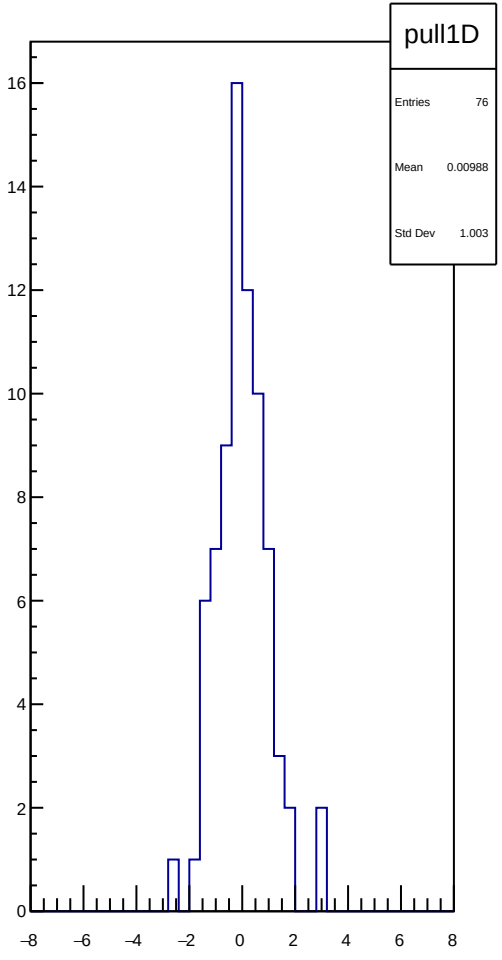

diff_bpm2i02X_rms vs run
χ² / ndf 79.74 / 75
p0 1198 ± 0.9871
1230
1220
1210
1200
1190
1180
1170
1160

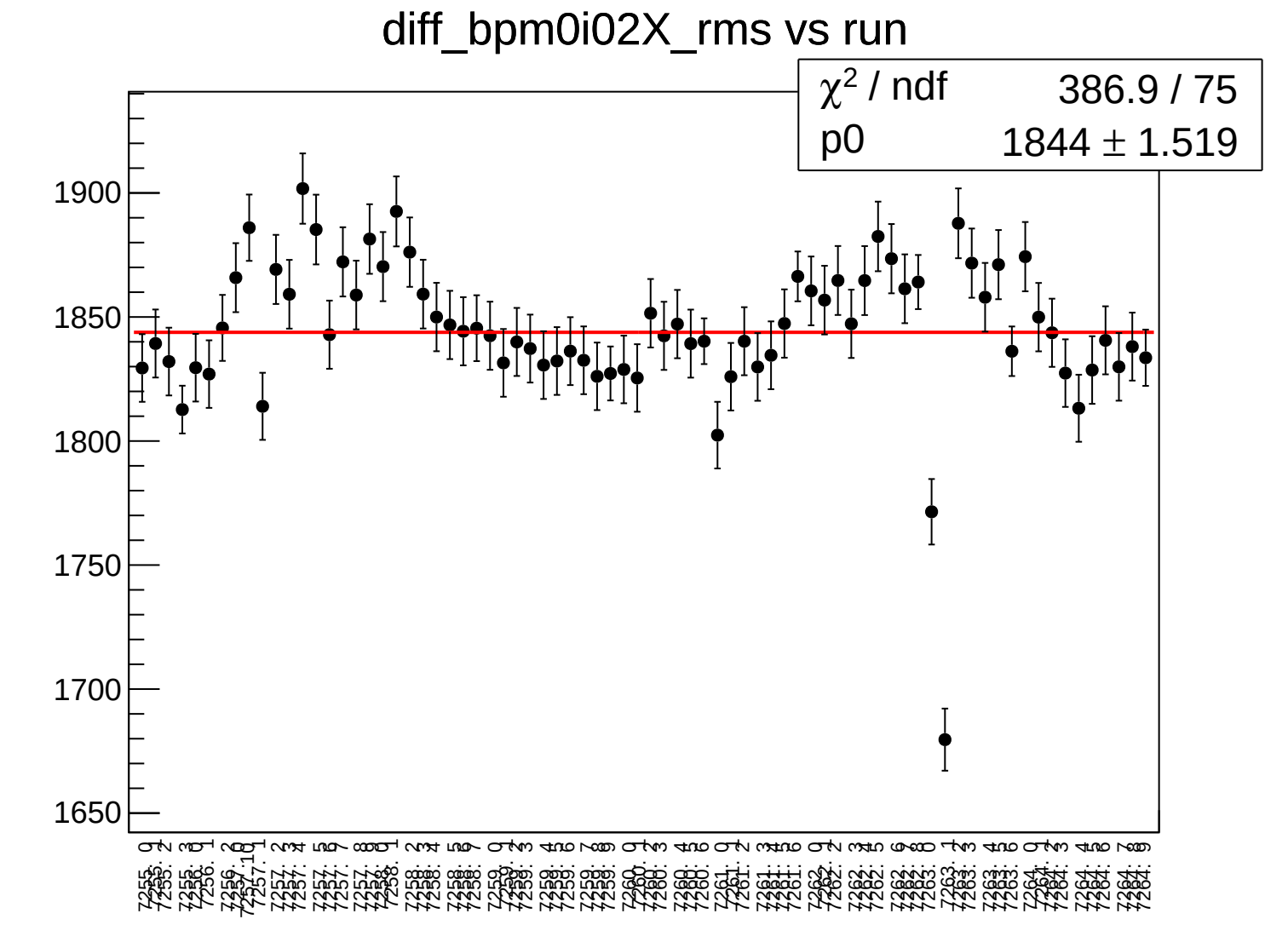

diff_bpm2i02Y_mean vs run
χ² / ndf 63.89 / 75
p0 −52.55 ± 1.44
−20
−40
−60
−80
−100
pull
Entries 76
Mean 121.6
Std Dev 40.54
2
1
0
−1
−2
−3

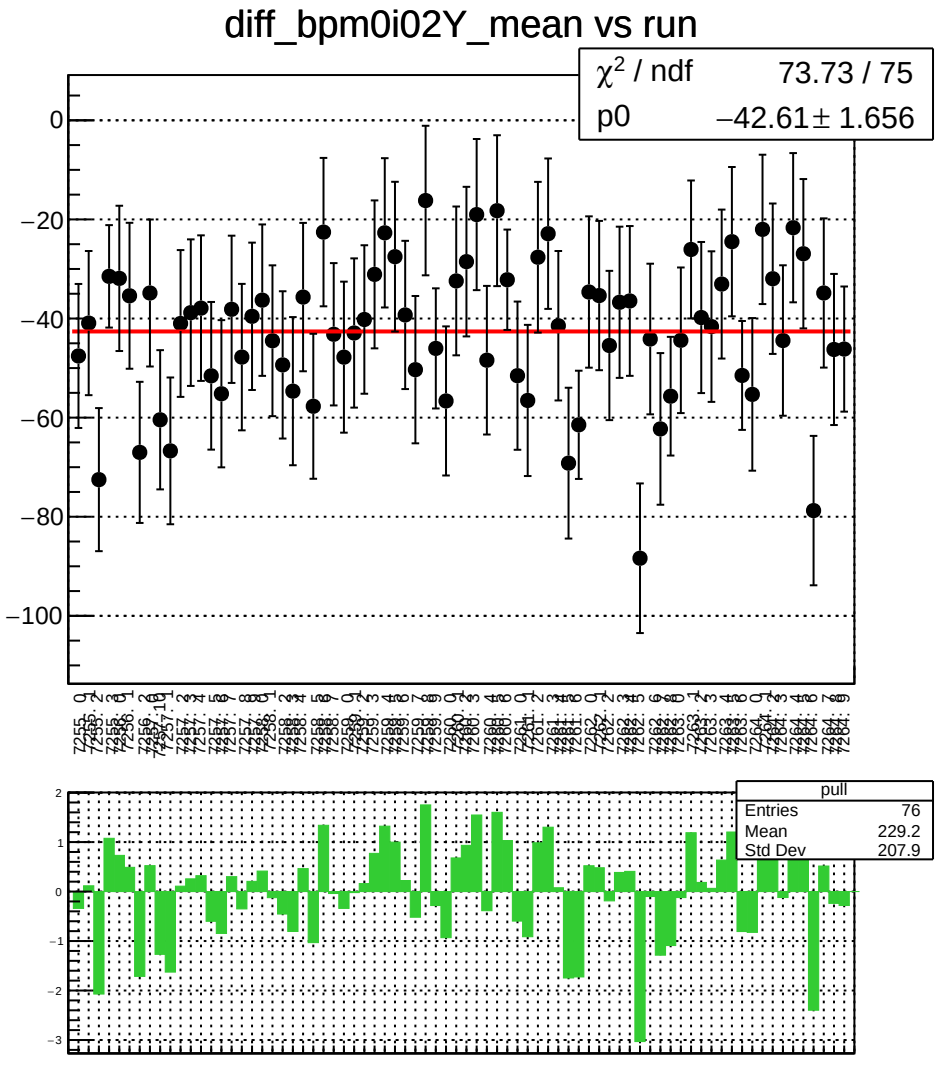

pull1D
Entries 76
Mean 0.01733
Std Dev 0.9167
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

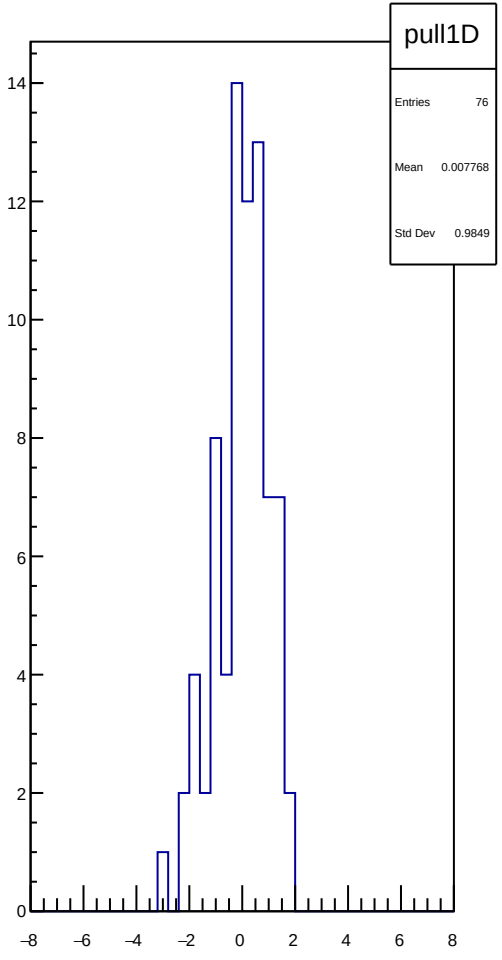

diff_bpm2i02Y_rms vs run
χ² / ndf 101.7 / 75
p0 1236 ± 1.018
1280
1270
1260
1250
1240
1230
1220
1210
1200

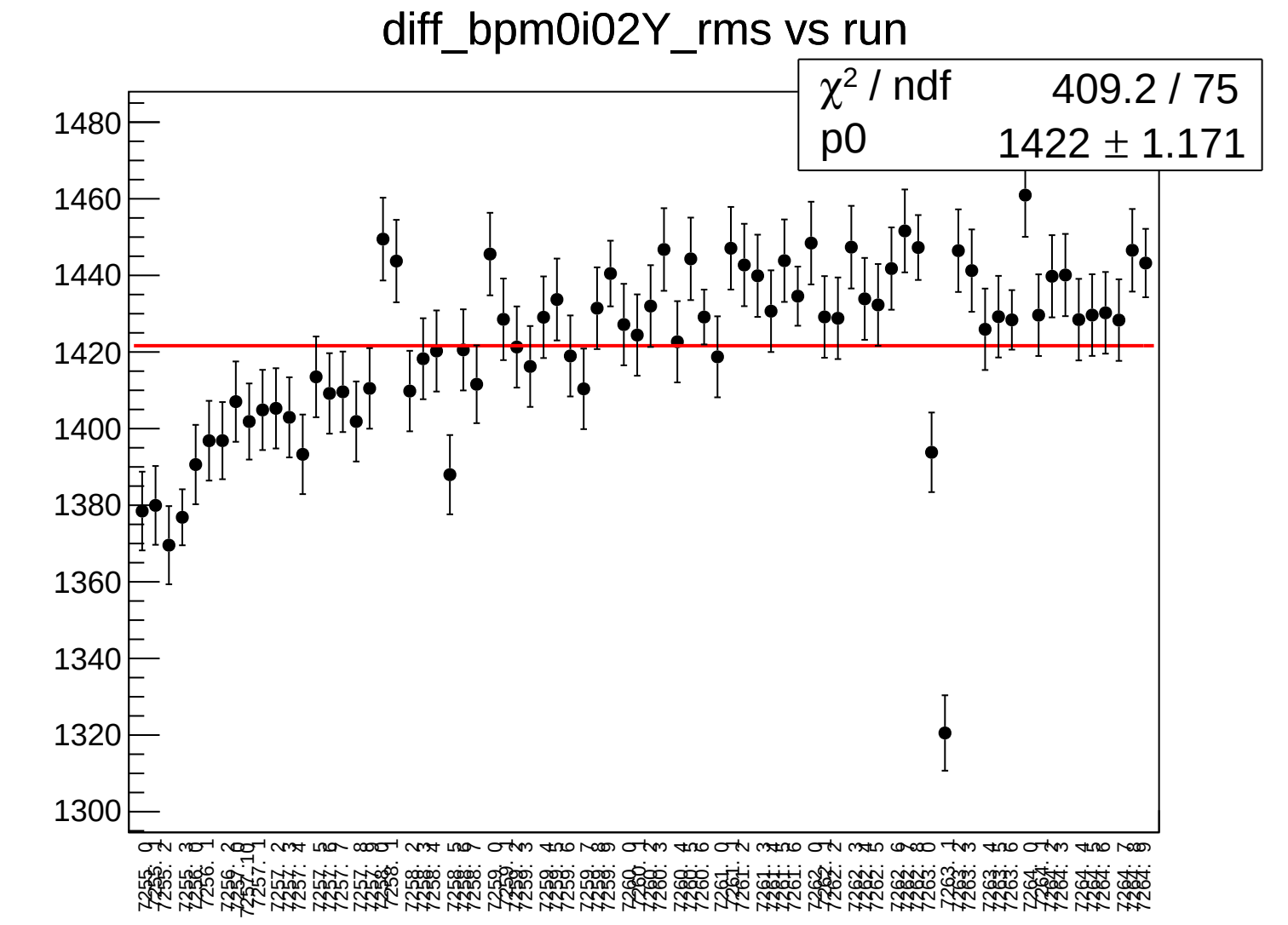

diff_bpm0i02X_mean vs run
χ² / ndf 76.53 / 75
p0 −38.36 ± 2.148
pull
Entries 76
Mean 86
Std Dev 77.86

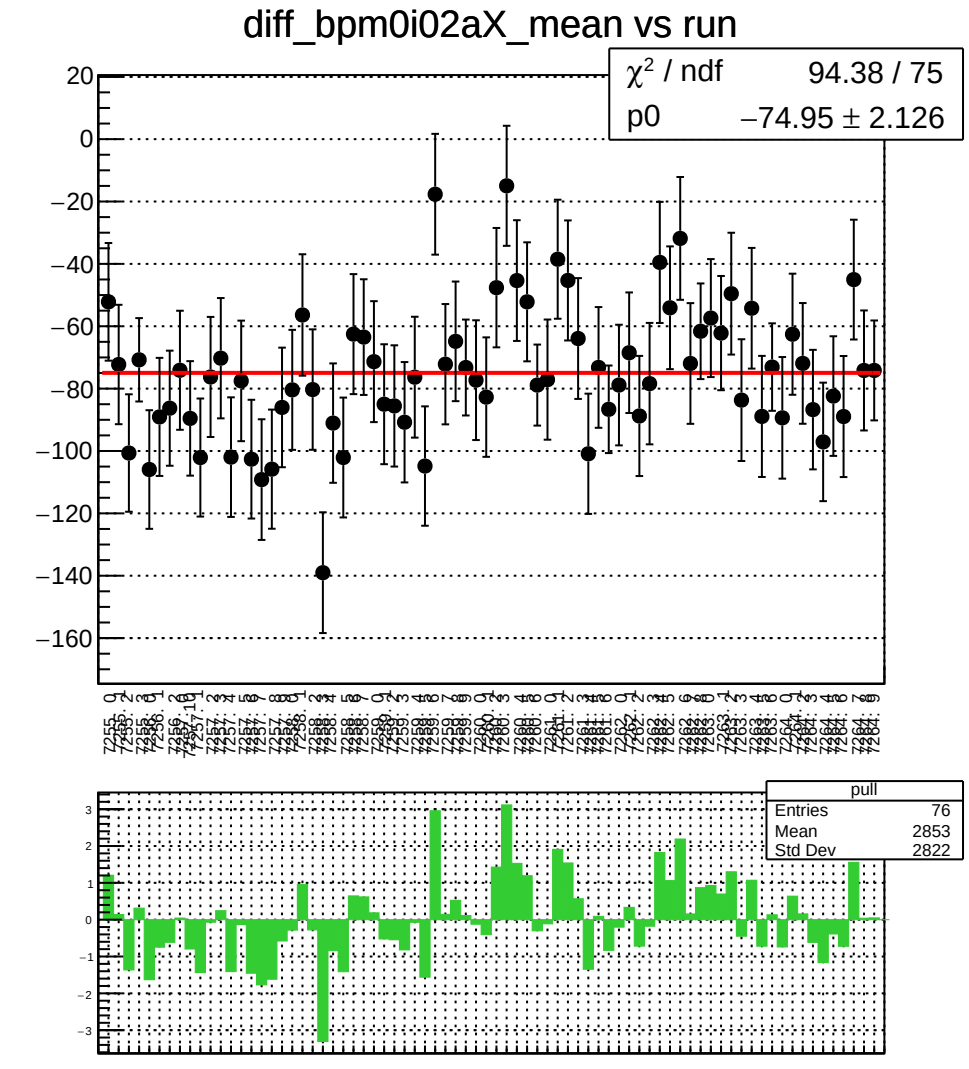

pull1D
Entries 76
Mean 0.00988
Std Dev 1.003

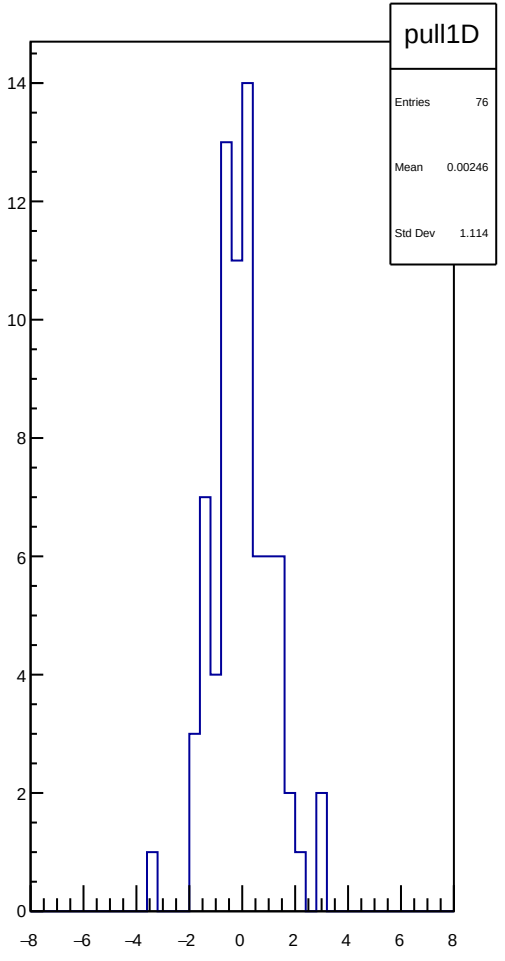

diff_bpm0i02X_rms vs run
χ² / ndf 386.9 / 75
p0 1844 ± 1.519
1900
1850
1800
1750
1700
1650

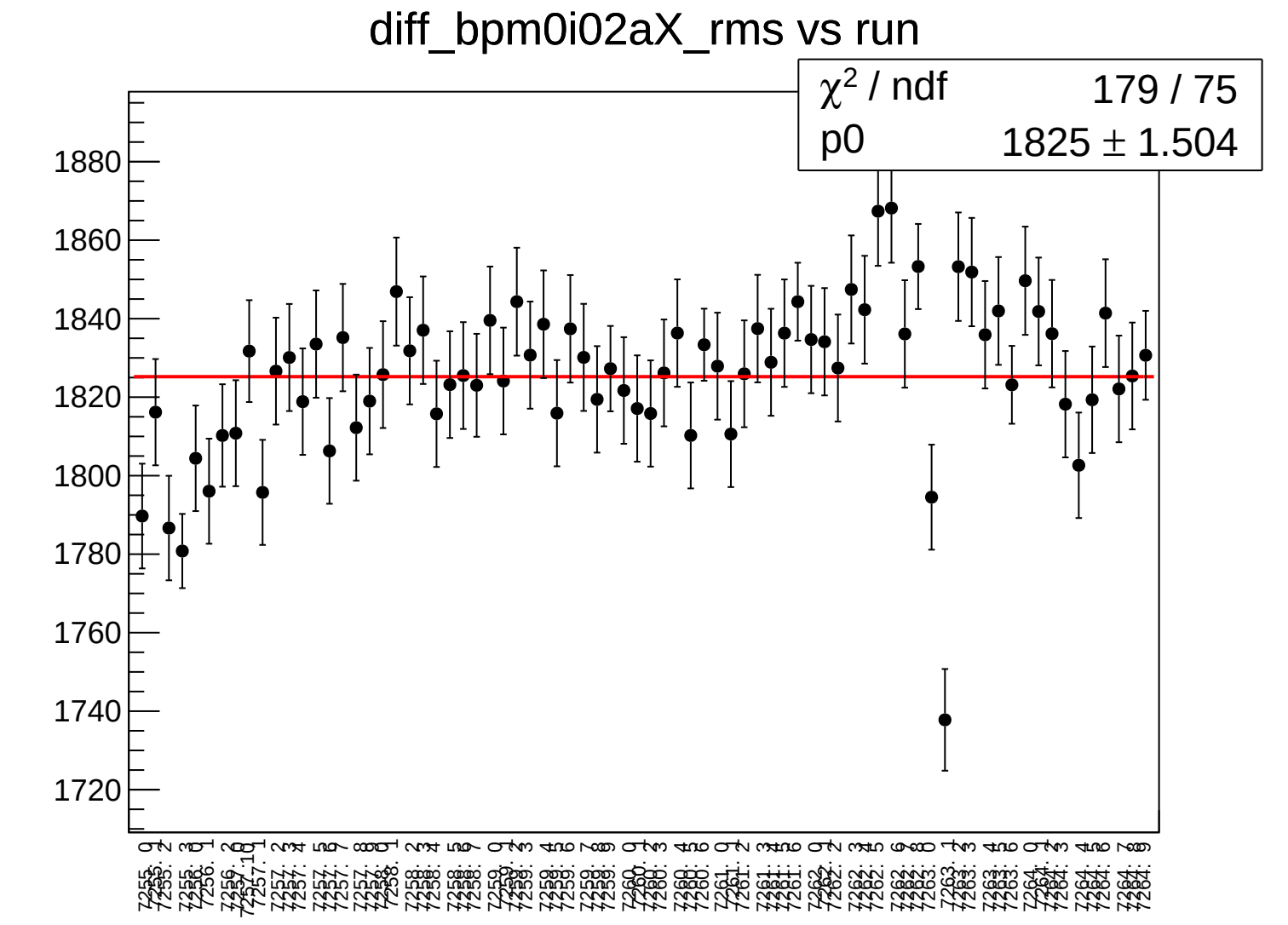

diff_bpm0i02Y_mean vs run
χ² / ndf 73.73 / 75
p0 −42.61 ± 1.656
pull
Entries 76
Mean 229.2
Std Dev 207.9

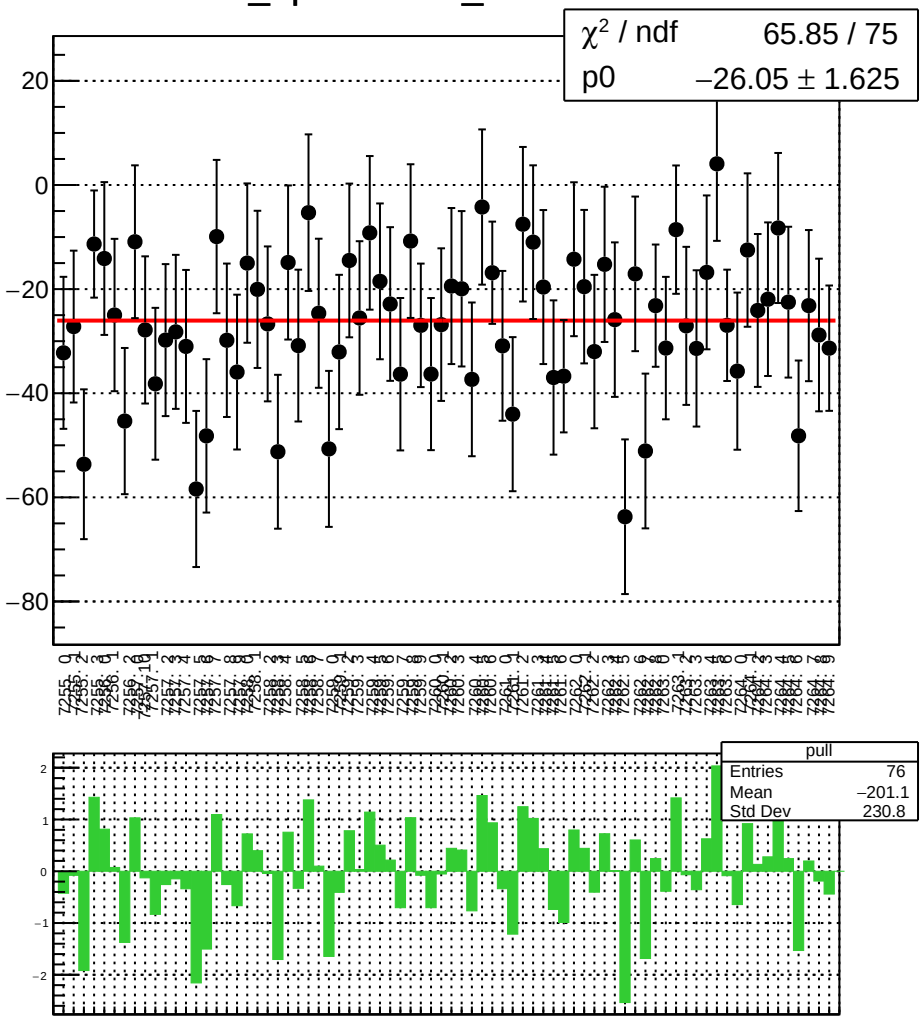

pull1D
Entries 76
Mean 0.007768
Std Dev 0.9849

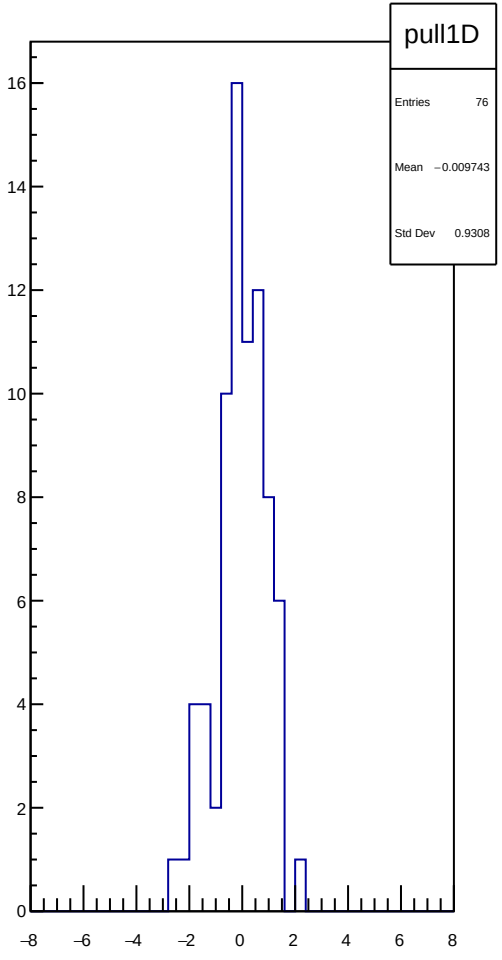

diff_bpm0i02Y_rms vs run
χ² / ndf 409.2 / 75
p0 1422 ± 1.171
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

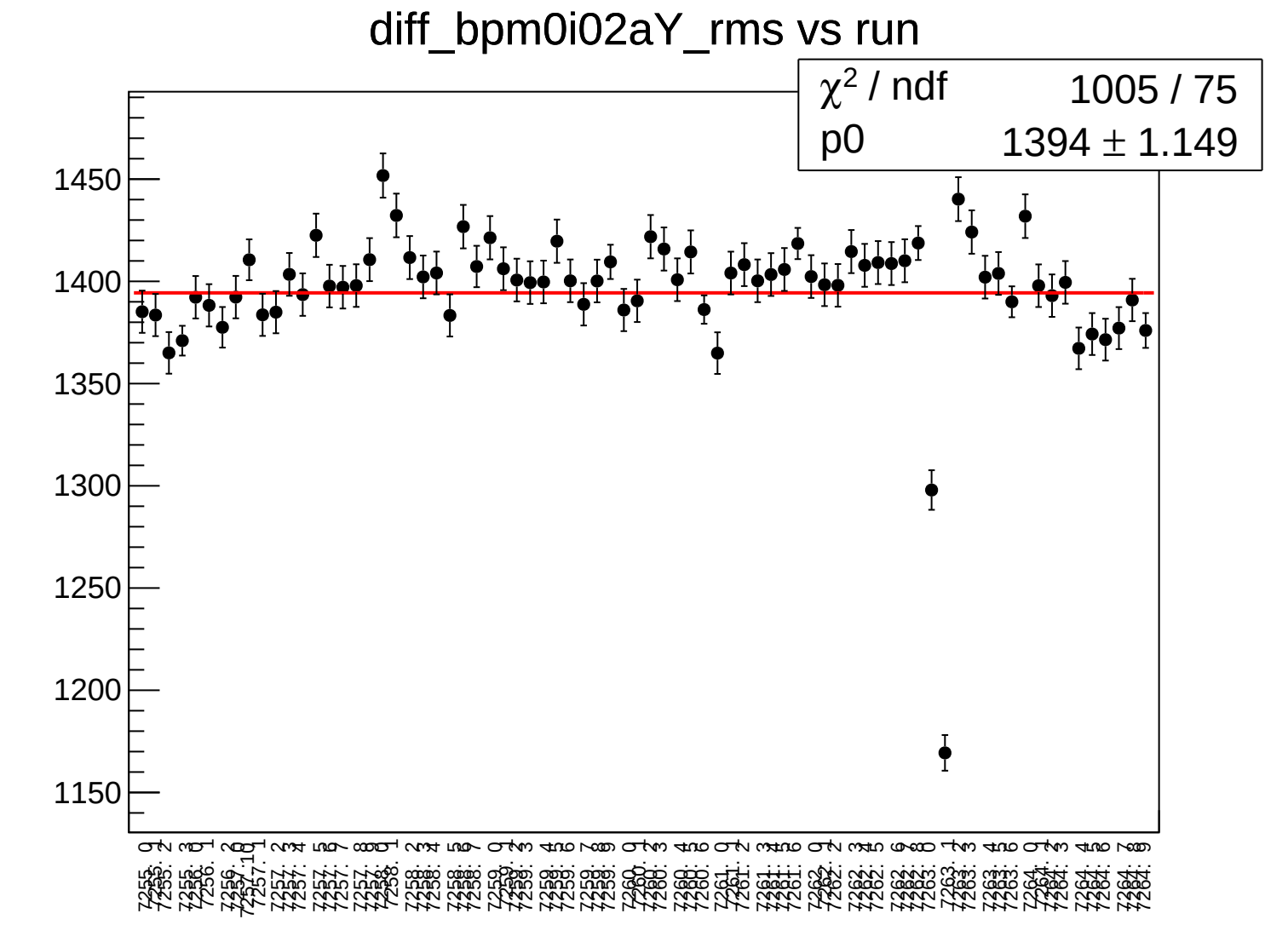

diff_bpm0i02aX_mean vs run
χ² / ndf 94.38 / 75
p0 −74.95 ± 2.126
pull
Entries 76
Mean 2853
Std Dev 2822

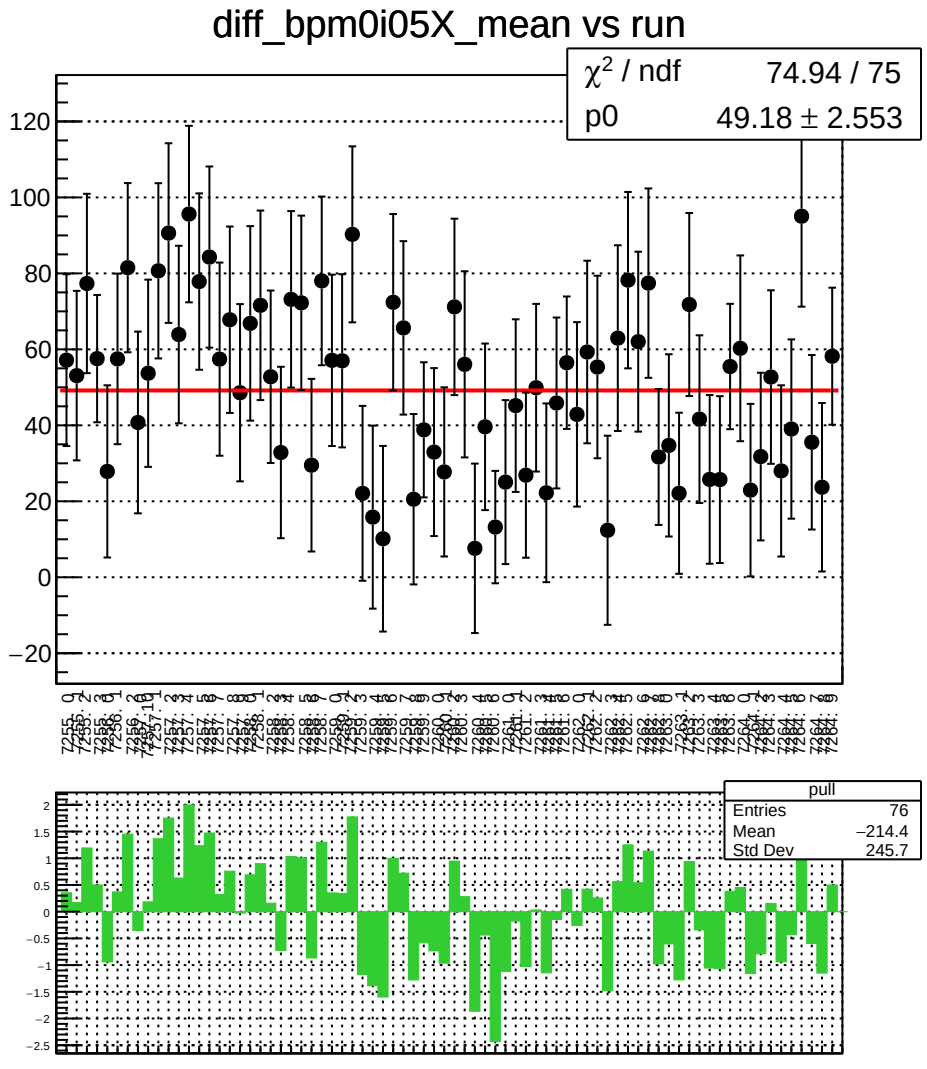

pull1D
Entries 76
Mean 0.00246
Std Dev 1.114

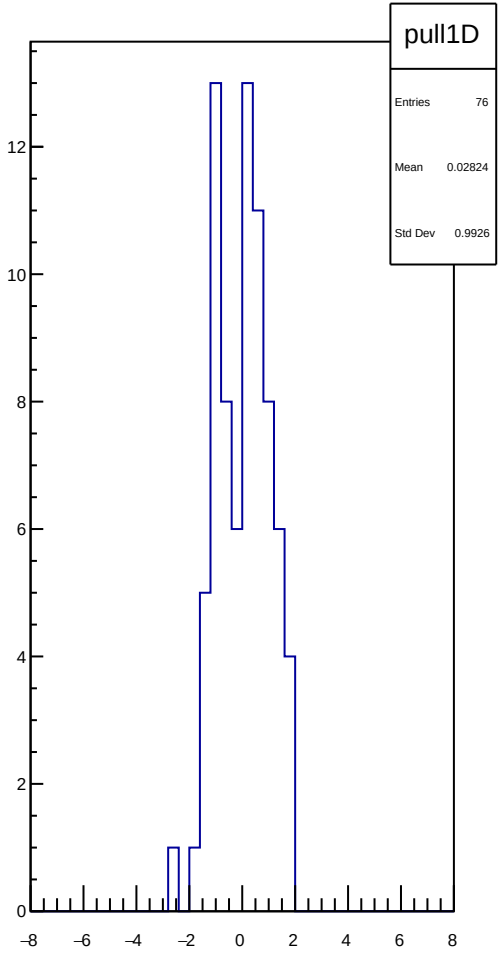

diff_bpm0i02aX_rms vs run
χ² / ndf 179 / 75
p0 1825 ± 1.504
1880
1860
1840
1820
1800
1780
1760
1740
1720

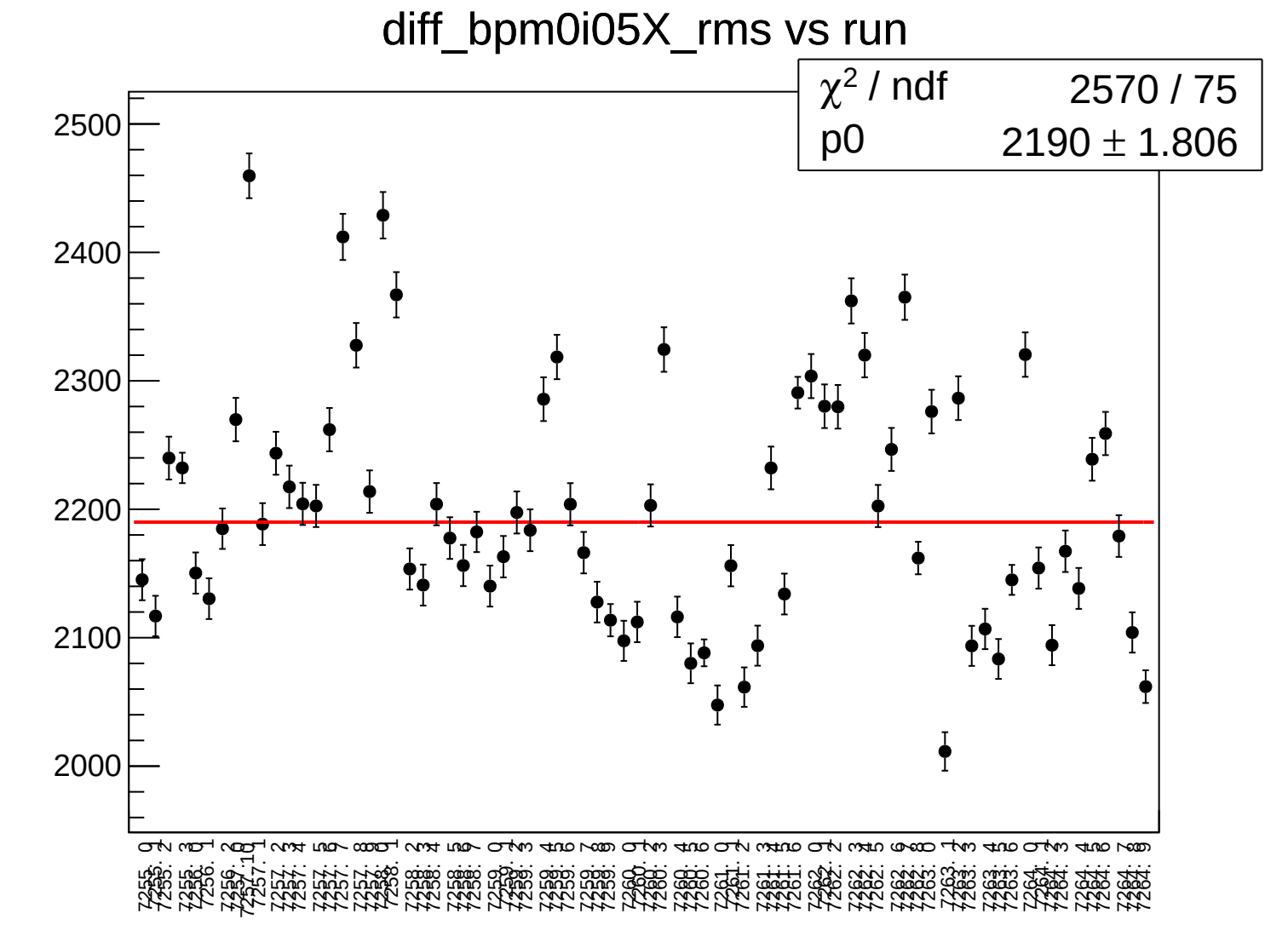

diff_bpm0i02aY_mean vs run
χ² / ndf 65.85 / 75
p0 −26.05 ± 1.625
pull
Entries 76
Mean −201.1
Std Dev 230.8

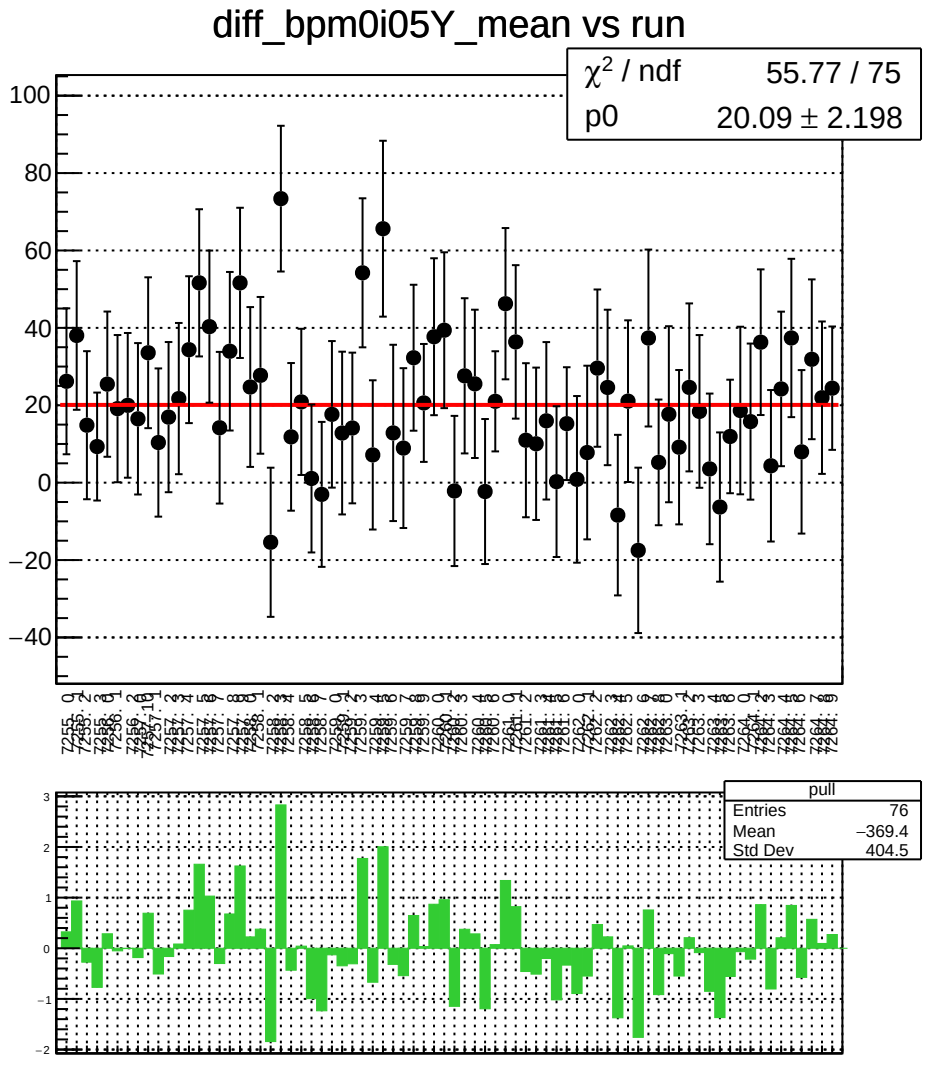

pull1D
Entries 76
Mean −0.009743
Std Dev 0.9308

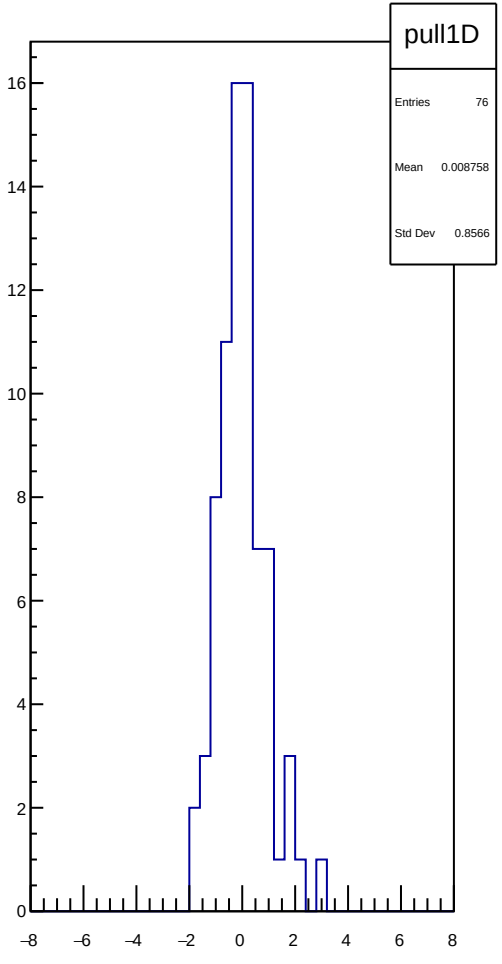

diff_bpm0i02aY_rms vs run
χ² / ndf 1005 / 75
p0 1394 ± 1.149
1450
1400
1350
1300
1250
1200
1150

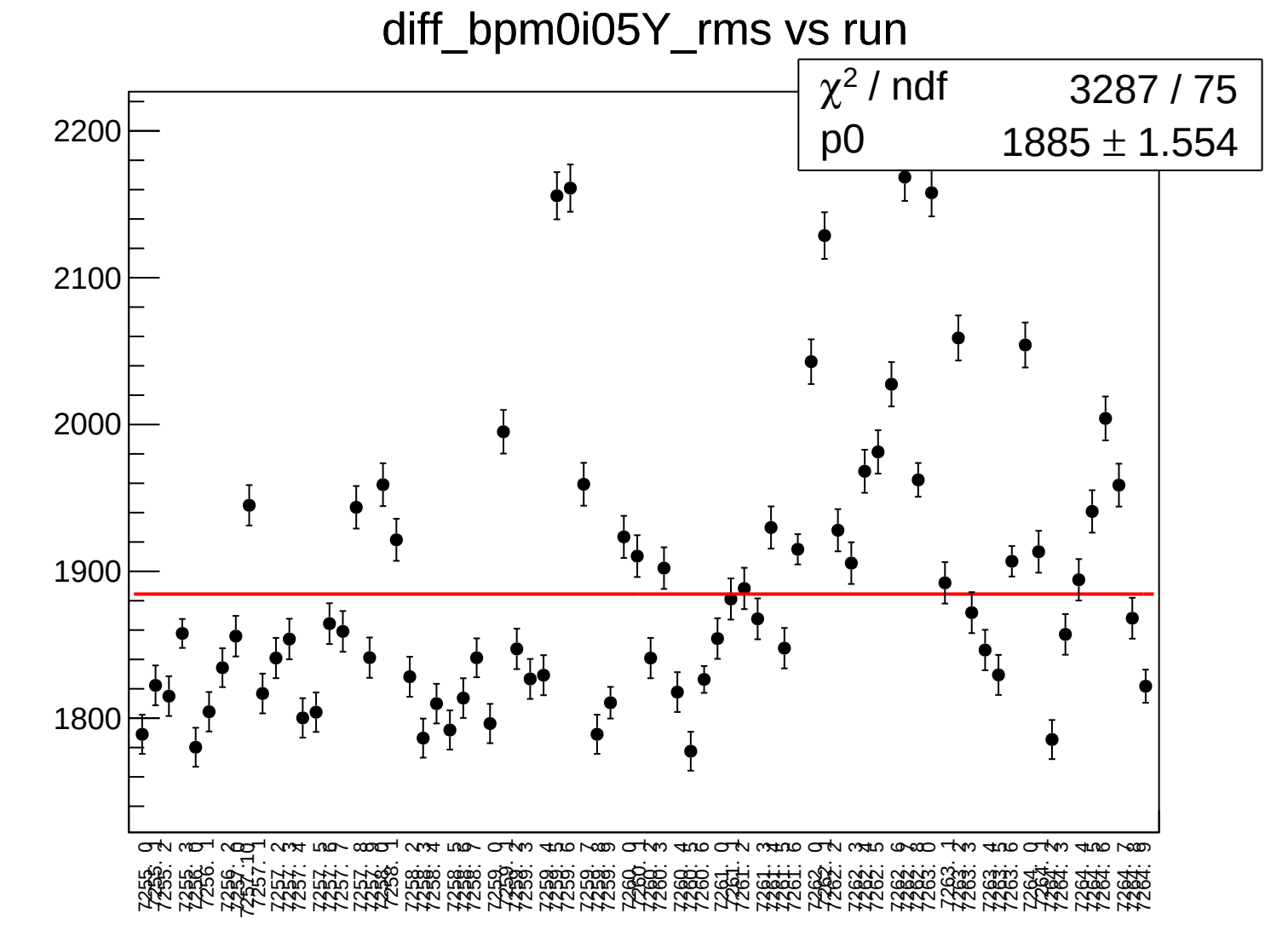

diff_bpm0i05X_mean vs run
χ^2 / ndf 74.94 / 75
p0 49.18 ± 2.553
pull
Entries 76
Mean −214.4
Std Dev 245.7

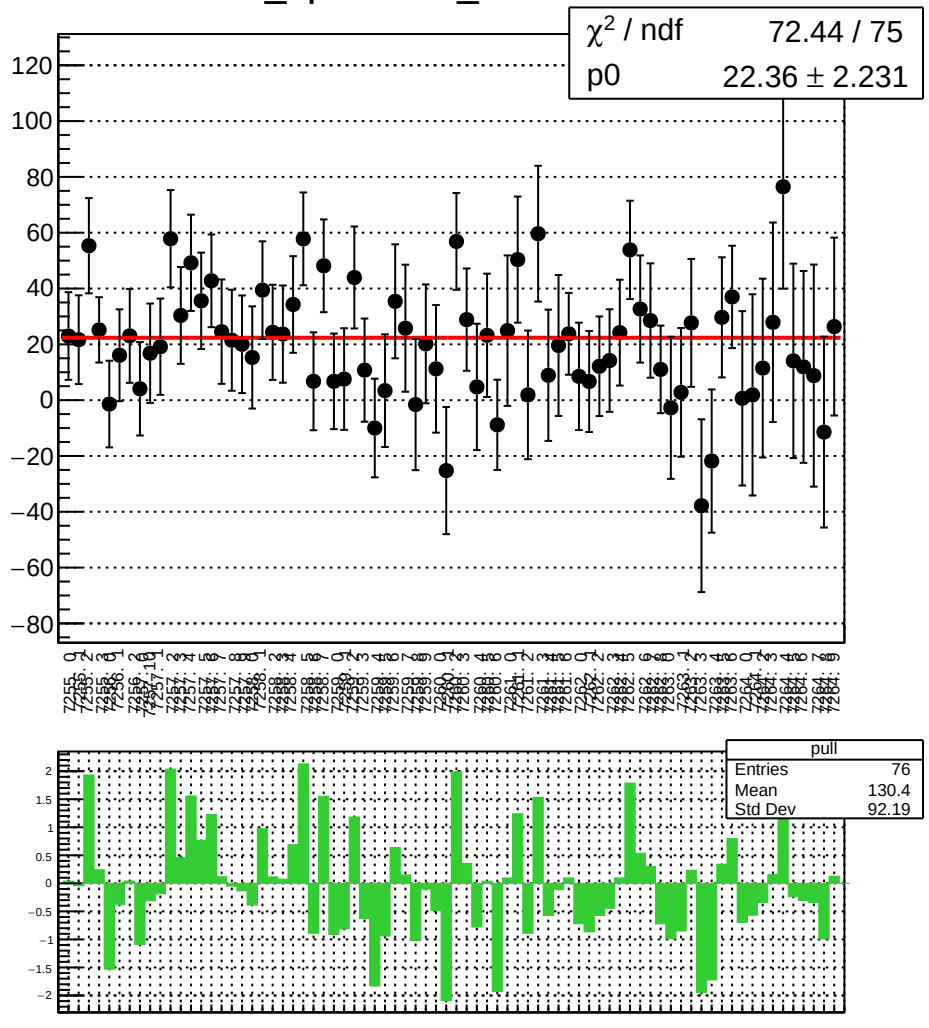

pull1D
Entries 76
Mean 0.02824
Std Dev 0.9926

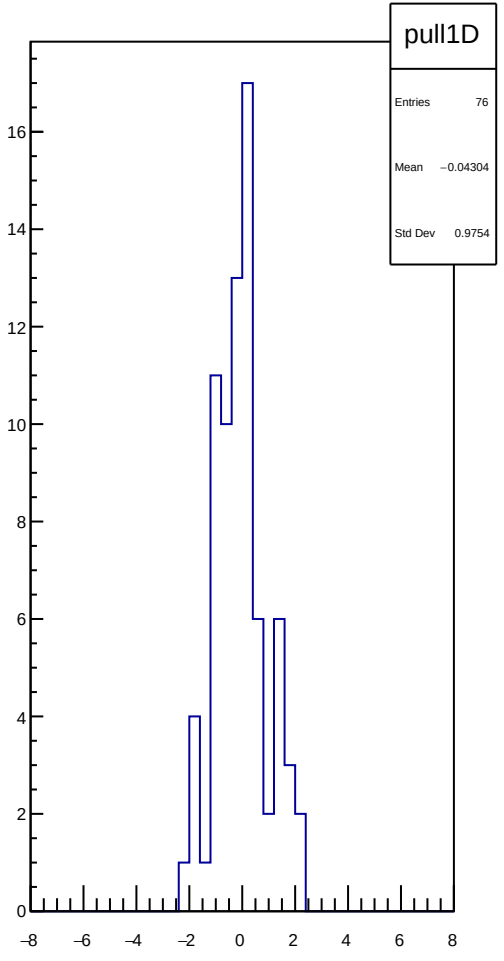

diff_bpm0i05X_rms vs run
χ² / ndf 2570 / 75
p0 2190 ± 1.806
2500
2400
2300
2200
2100
2000

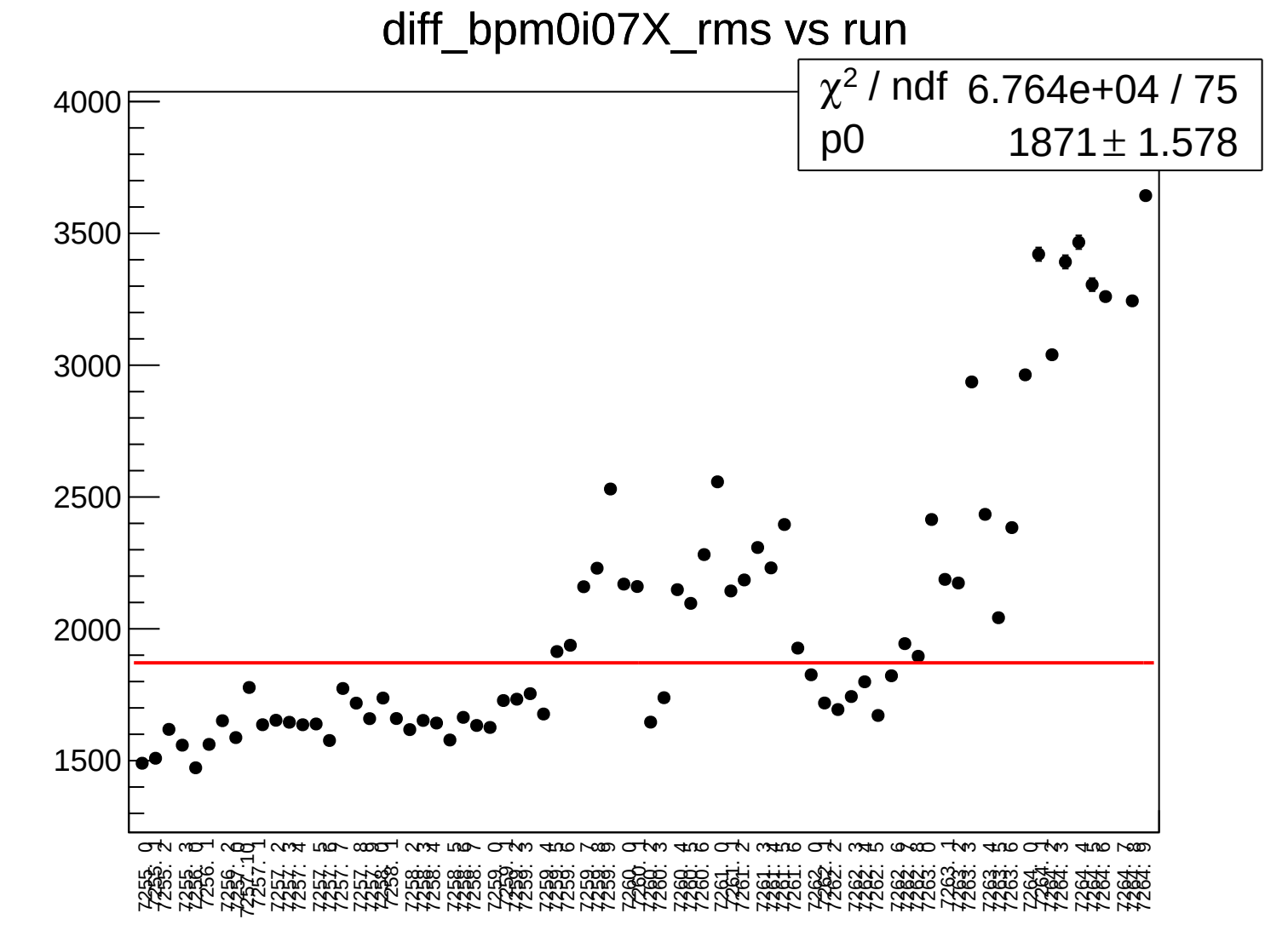

diff_bpm0i05Y_mean vs run
χ² / ndf 55.77 / 75
p0 20.09 ± 2.198
pull
Entries 76
Mean −369.4
Std Dev 404.5

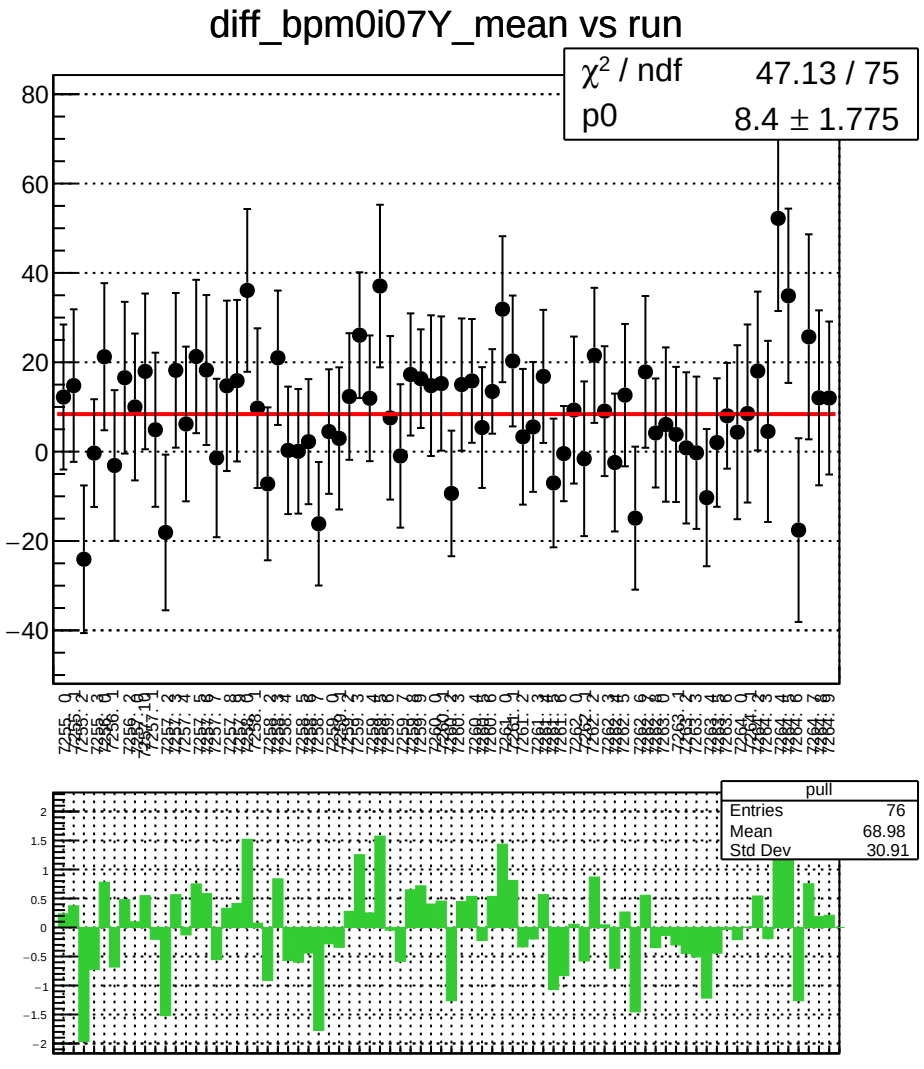

pull1D
Entries 76
Mean 0.008758
Std Dev 0.8566

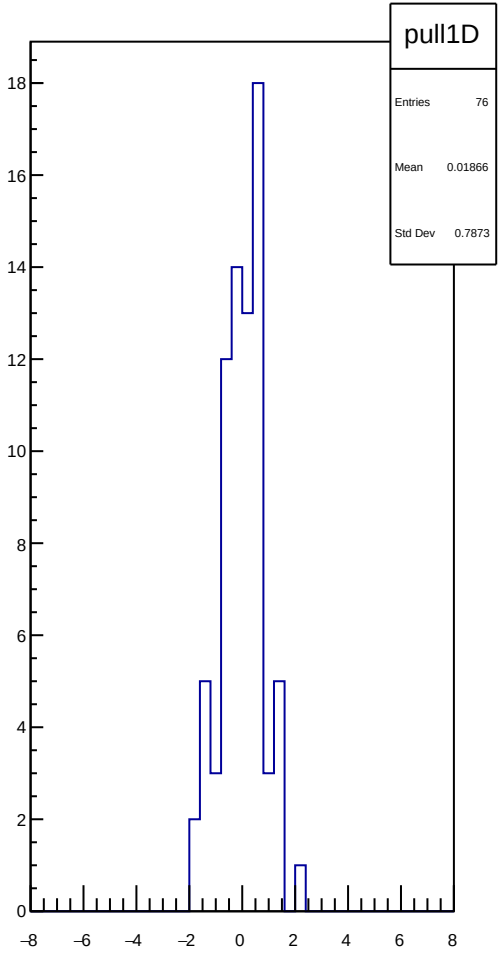

diff_bpm0i05Y_rms vs run
χ² / ndf 3287 / 75
p0 1885 ± 1.554
2200
2100
2000
1900
1800

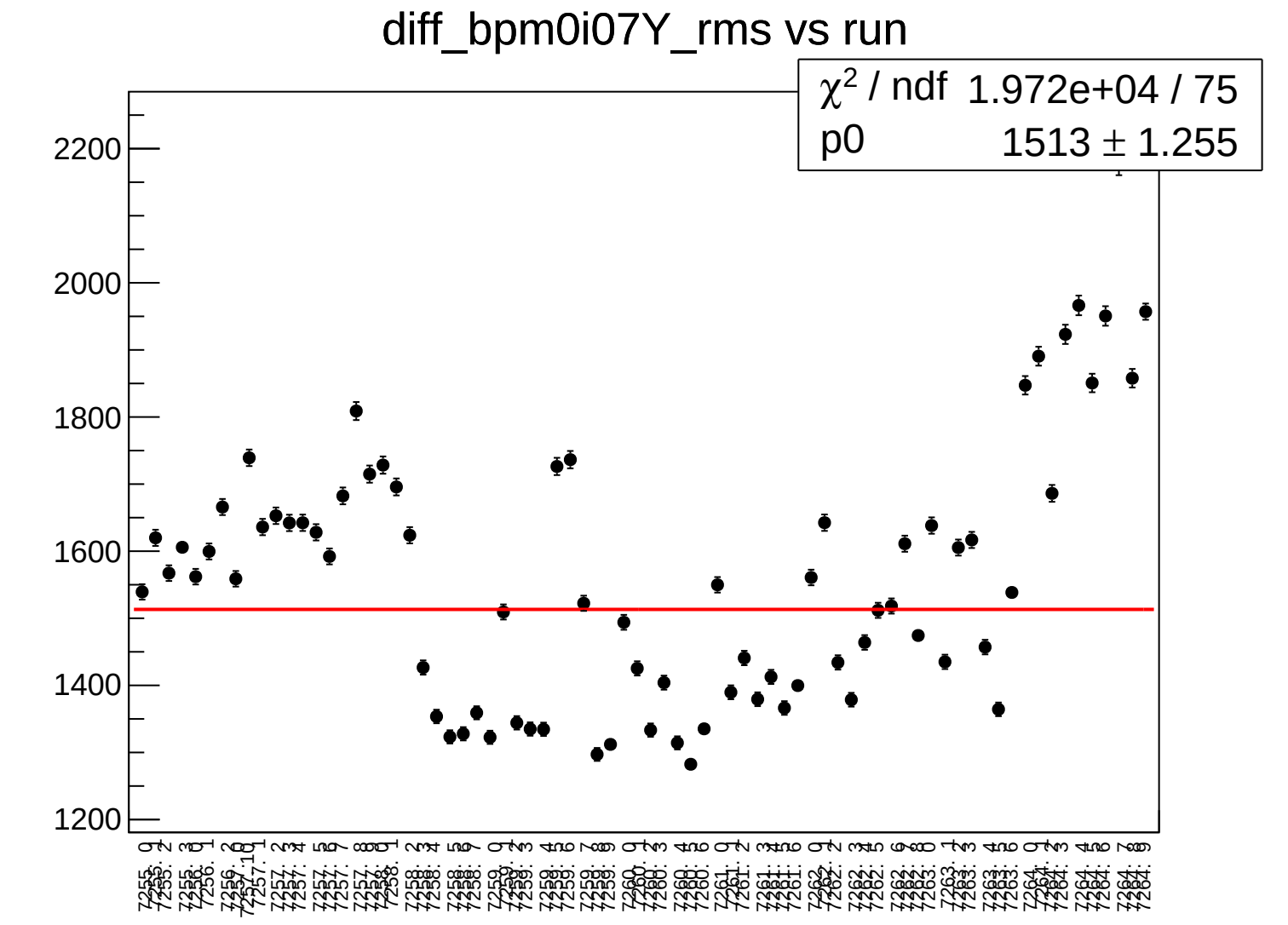

diff_bpm0i07X_mean vs run
χ^2 / ndf 72.44 / 75
p0 22.36 ± 2.231
pull
Entries 76
Mean 130.4
Std Dev 92.19

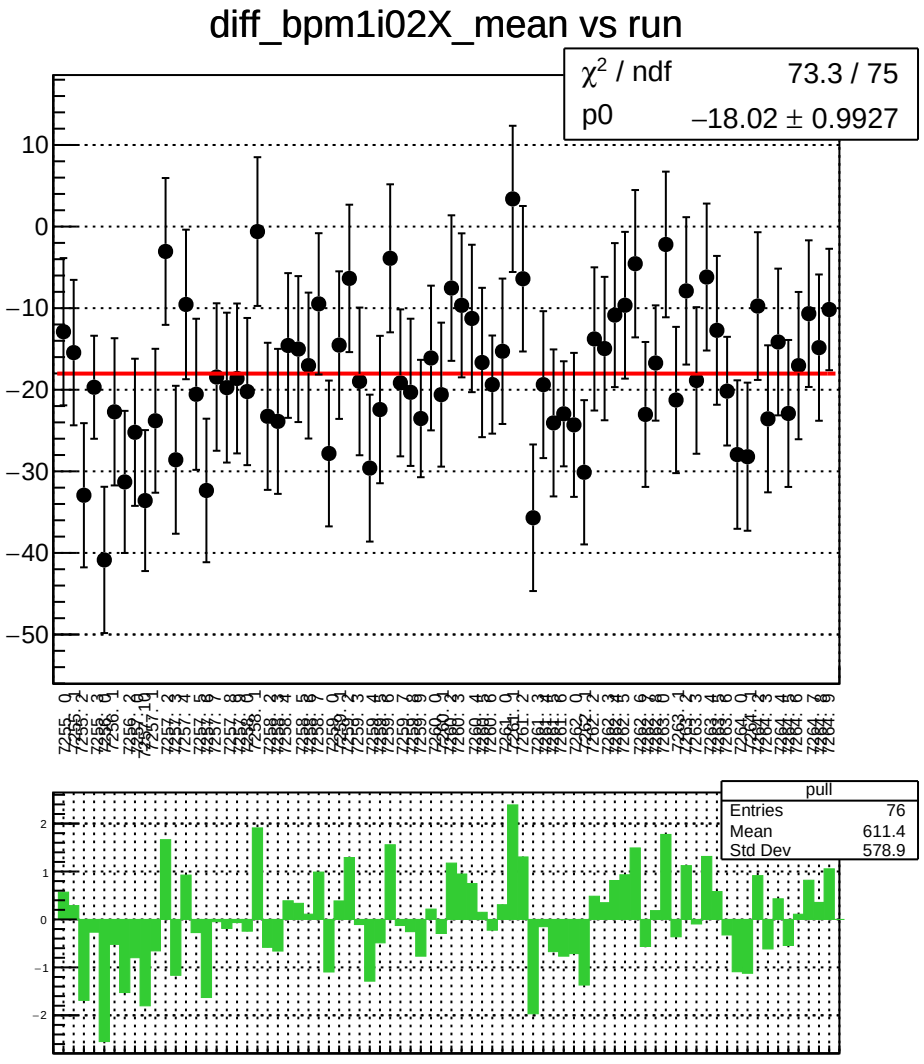

pull1D
Entries 76
Mean −0.04304
Std Dev 0.9754

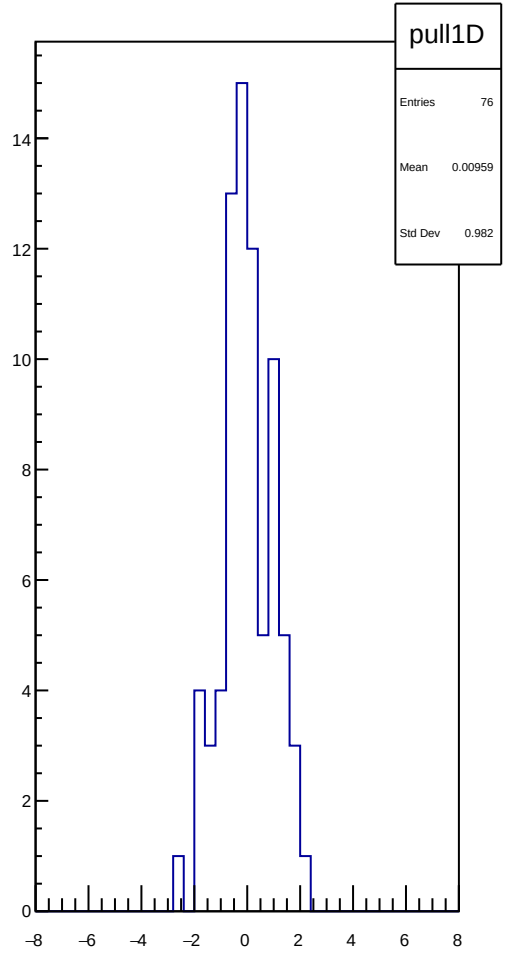

diff_bpm0i07X_rms vs run
χ² / ndf 6.764e+04 / 75
p0 1871 ± 1.578
4000
3500
3000
2500
2000
1500

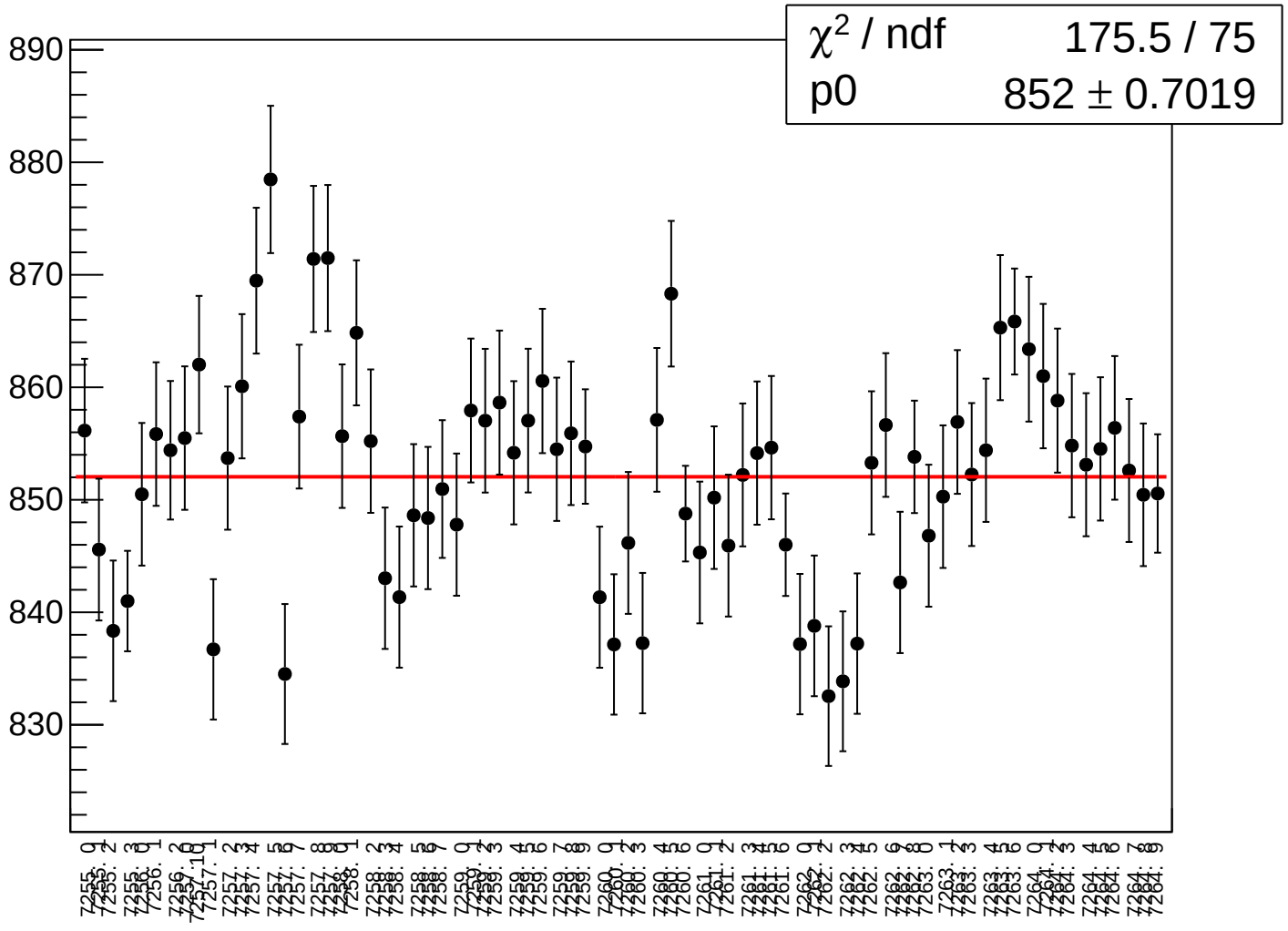

diff_bpm0i07Y_mean vs run
χ² / ndf 47.13 / 75
p0 8.4 ± 1.775
pull
Entries 76
Mean 68.98
Std Dev 30.91

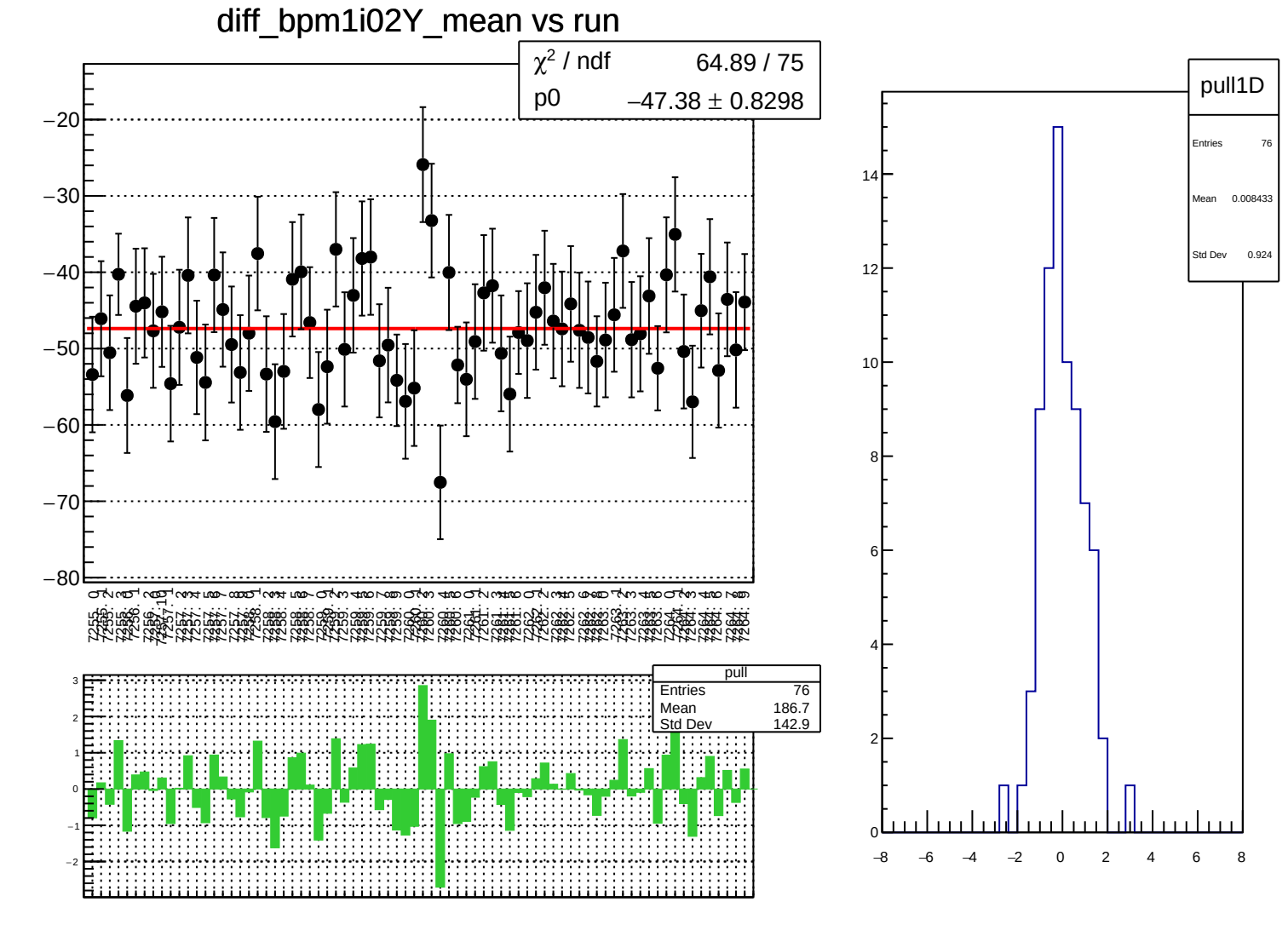

pull1D
Entries 76
Mean 0.01866
Std Dev 0.7873

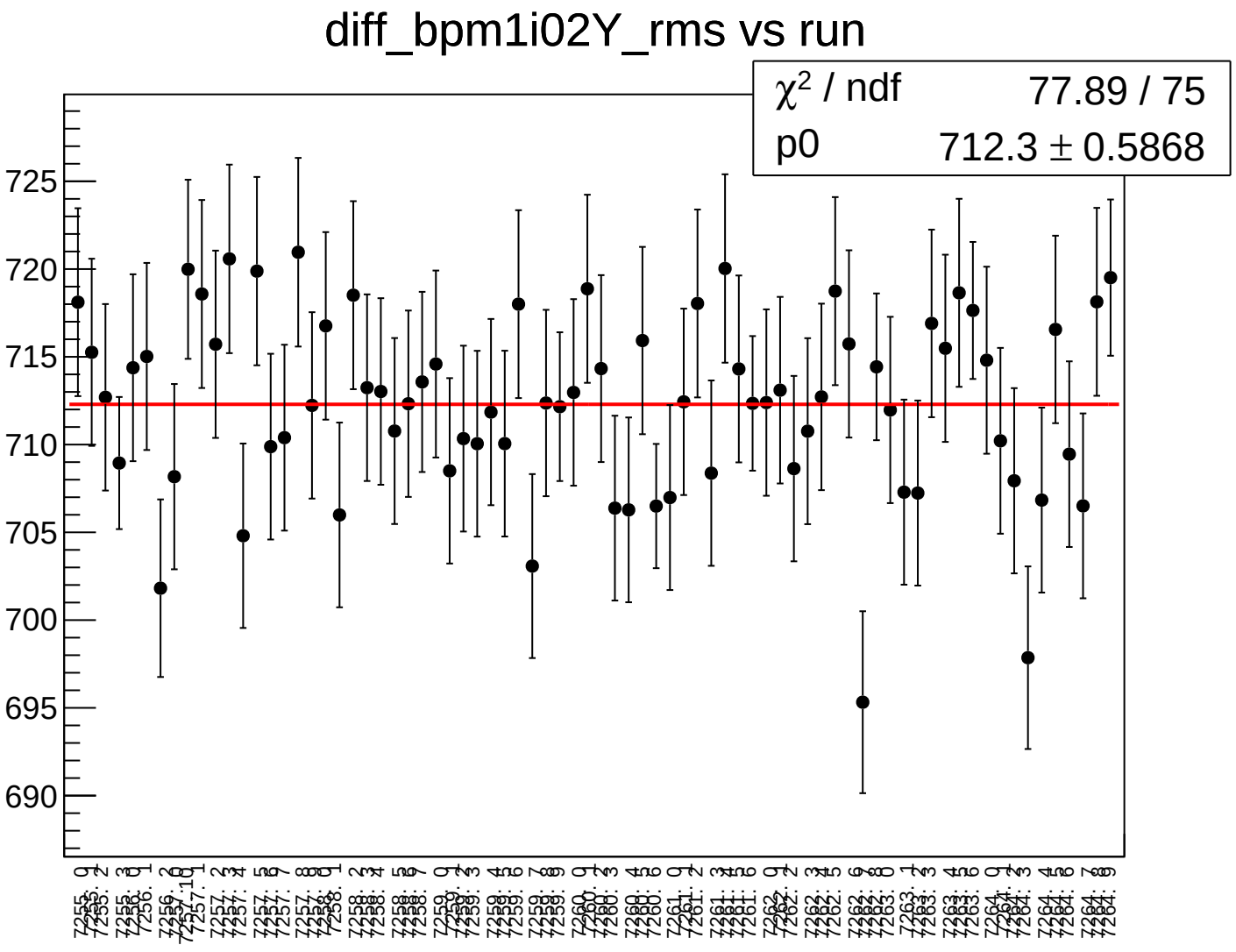

diff_bpm0i07Y_rms vs run
χ² / ndf 1.972e+04 / 75
p0 1513 ± 1.255
2200
2000
1800
1600
1400
1200

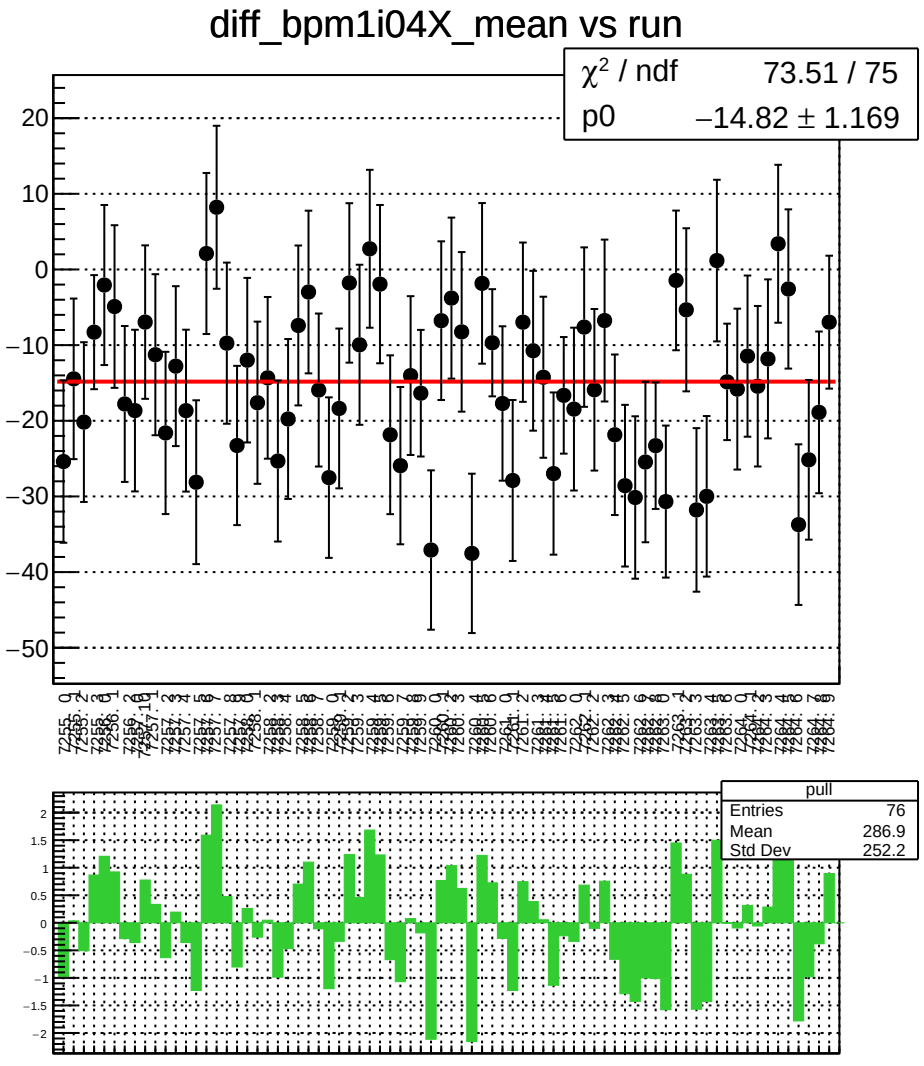

diff_bpm1i02X_mean vs run
χ² / ndf 73.3 / 75
p0 −18.02 ± 0.9927
pull
Entries 76
Mean 611.4
Std Dev 578.9

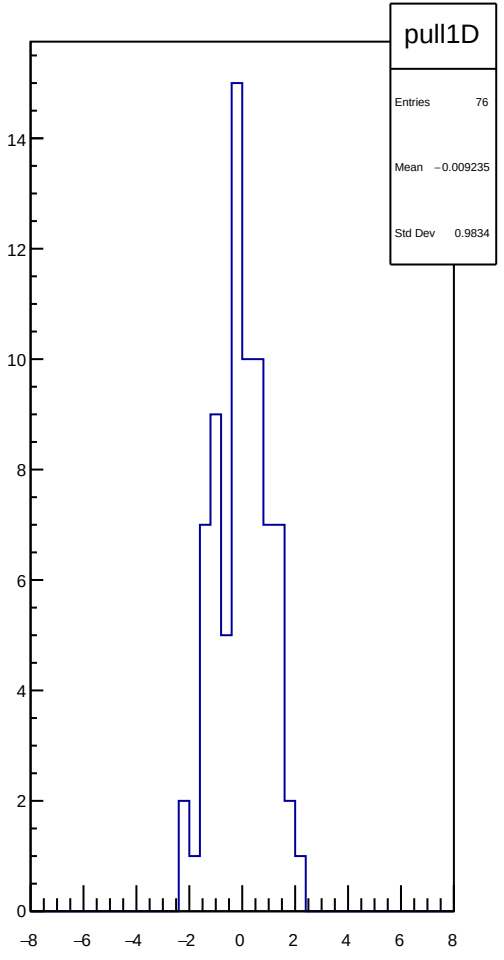

pull1D
Entries 76
Mean 0.00959
Std Dev 0.982

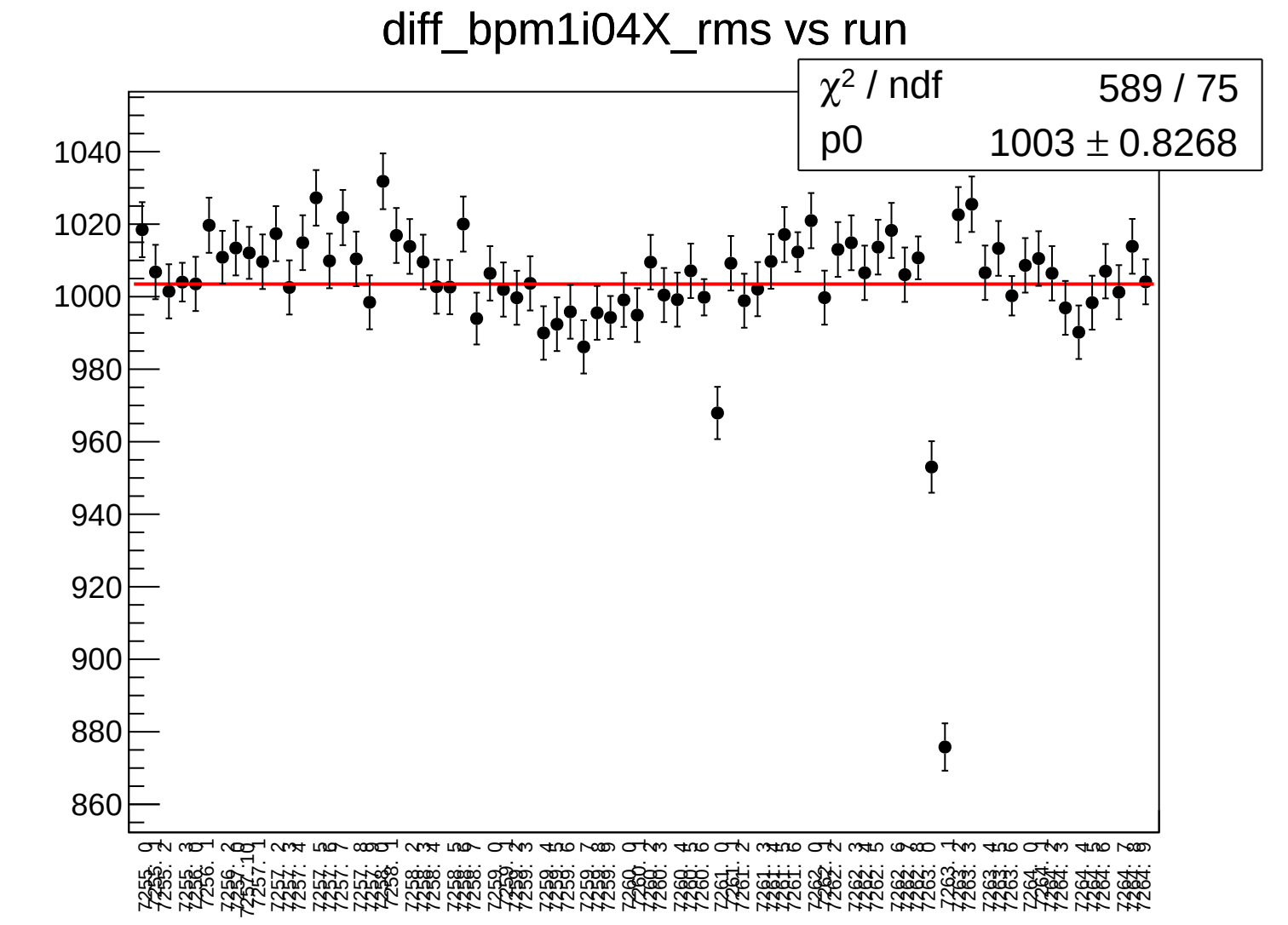

diff_bpm1i02X_rms vs run
χ² / ndf 175.5 / 75
p0 852 ± 0.7019
890
880
870
860
850
840
830

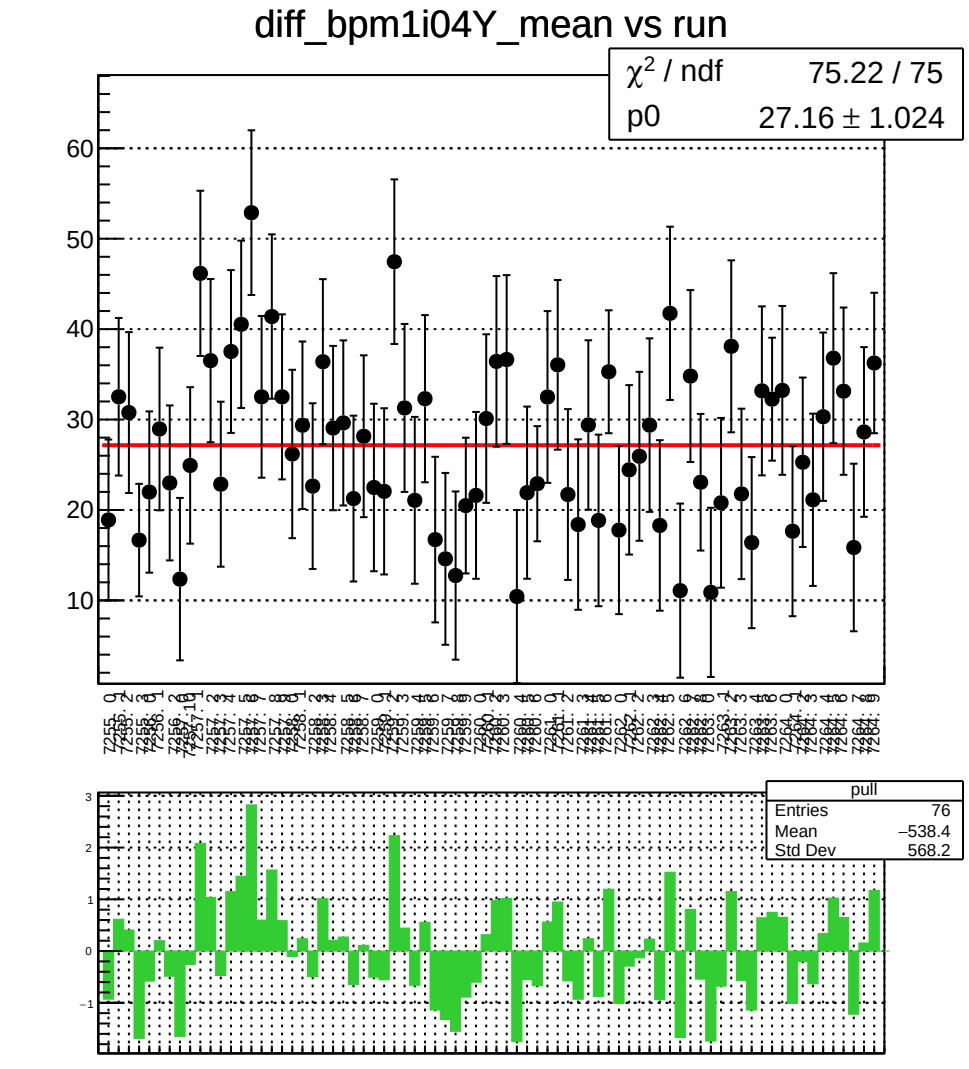

diff_bpm1i02Y_mean vs run
χ² / ndf 64.89 / 75
p0 −47.38 ± 0.8298
pull
Entries 76
Mean 186.7
Std Dev 142.9
pull1D
Entries 76
Mean 0.008433
Std Dev 0.924

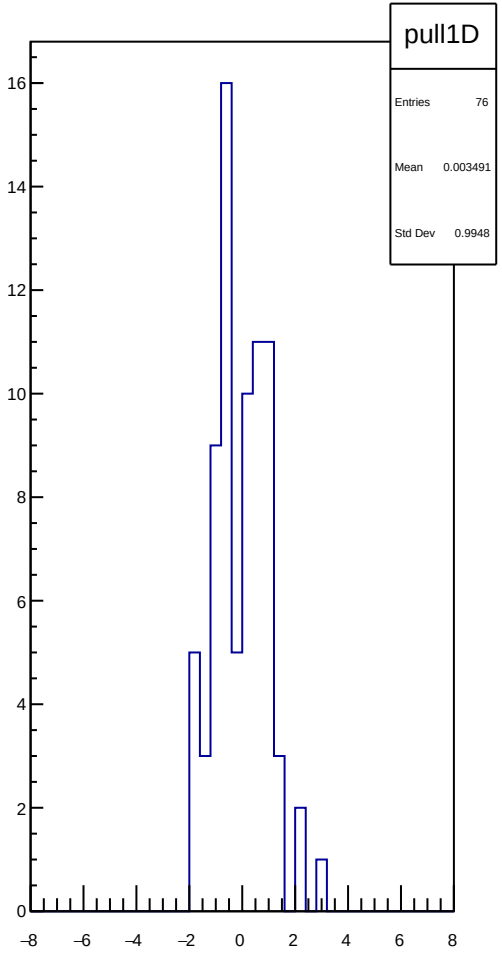

diff_bpm1i02Y_rms vs run
χ² / ndf 77.89 / 75
p0 712.3 ± 0.5868
725
720
715
710
705
700
695
690

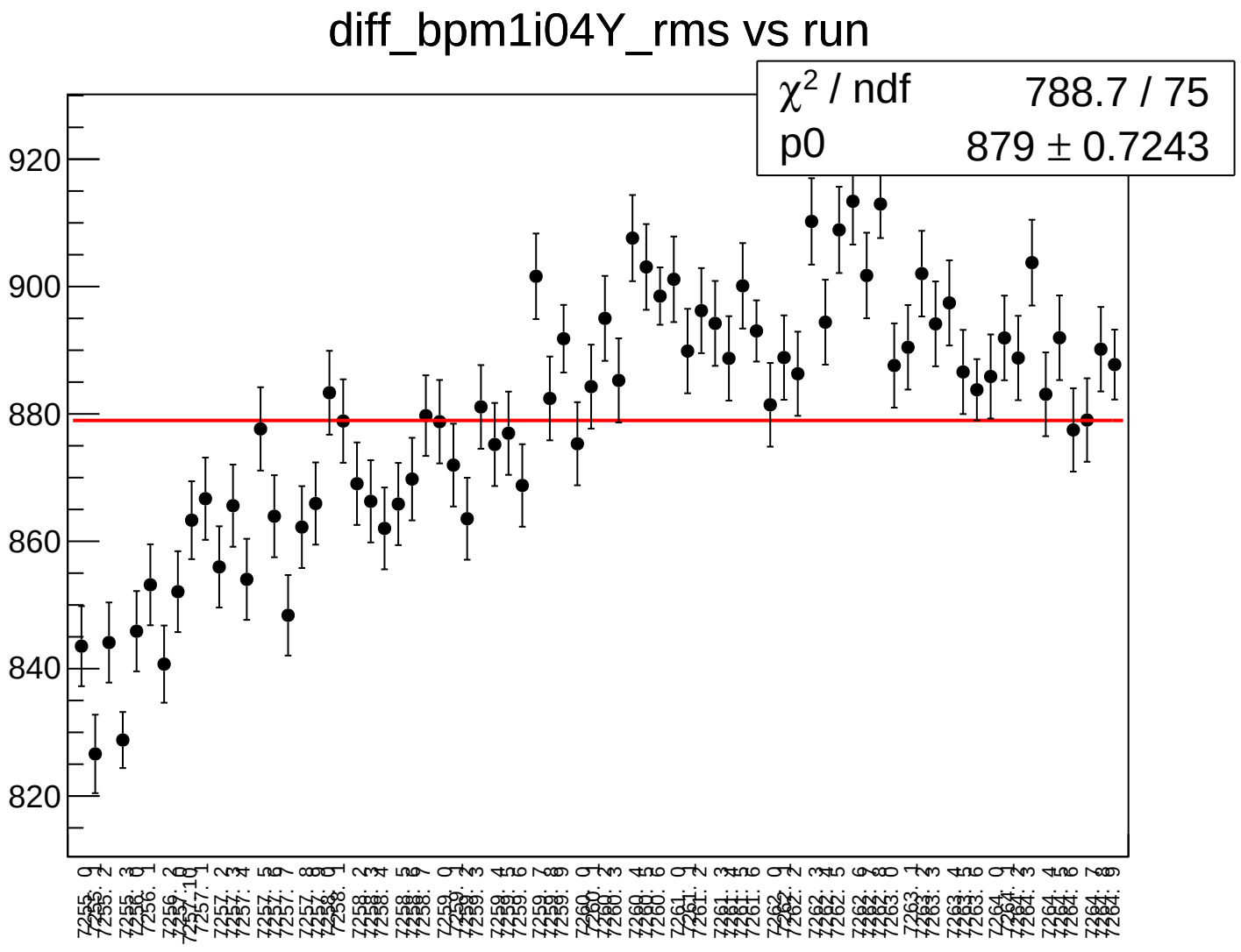

diff_bpm1i04X_mean vs run
χ^2 / ndf 73.51 / 75
p0 −14.82 ± 1.169
pull
Entries 76
Mean 286.9
Std Dev 252.2

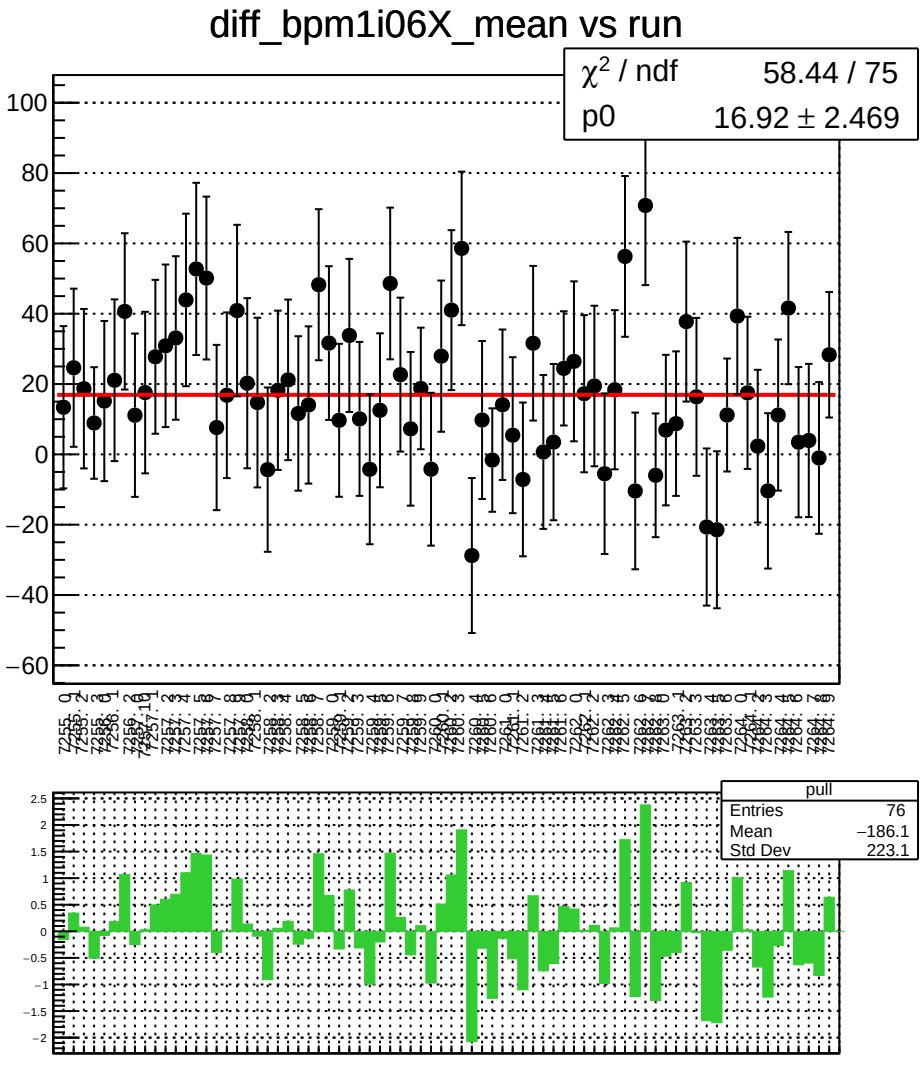

pull1D
Entries 76
Mean −0.009235
Std Dev 0.9834

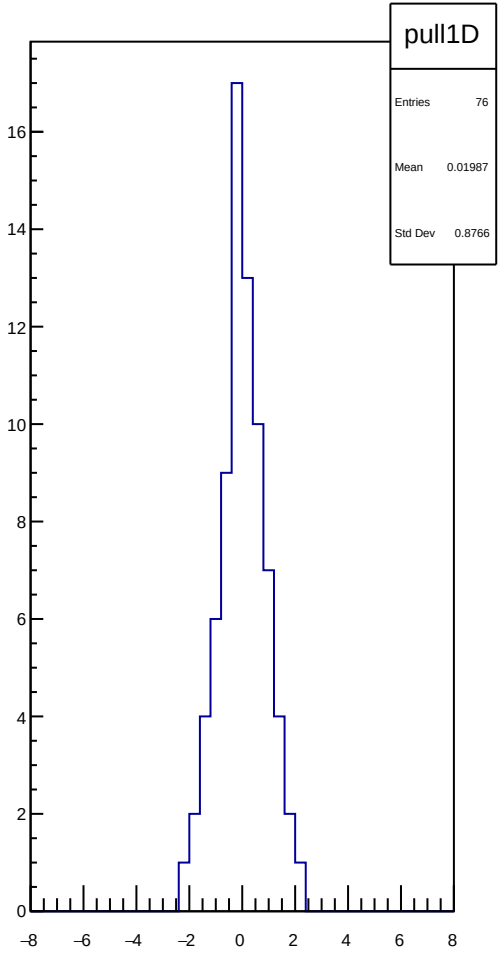

diff_bpm1i04X_rms vs run
χ² / ndf 589 / 75
p0 1003 ± 0.8268
1040
1020
1000
980
960
940
920
900
880
860

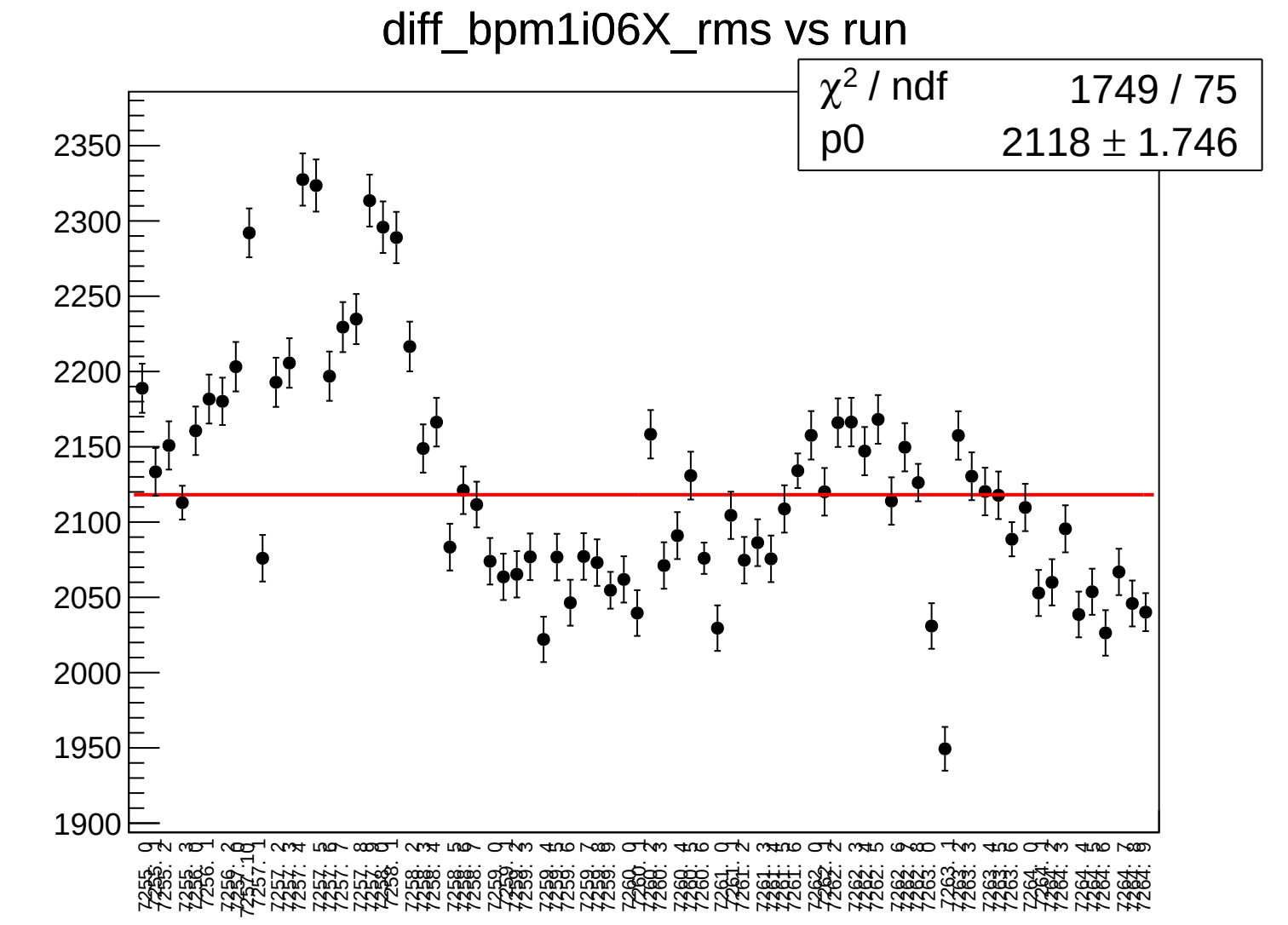

diff_bpm1i04Y_mean vs run
χ² / ndf 75.22 / 75
p0 27.16 ± 1.024
pull
Entries 76
Mean −538.4
Std Dev 568.2

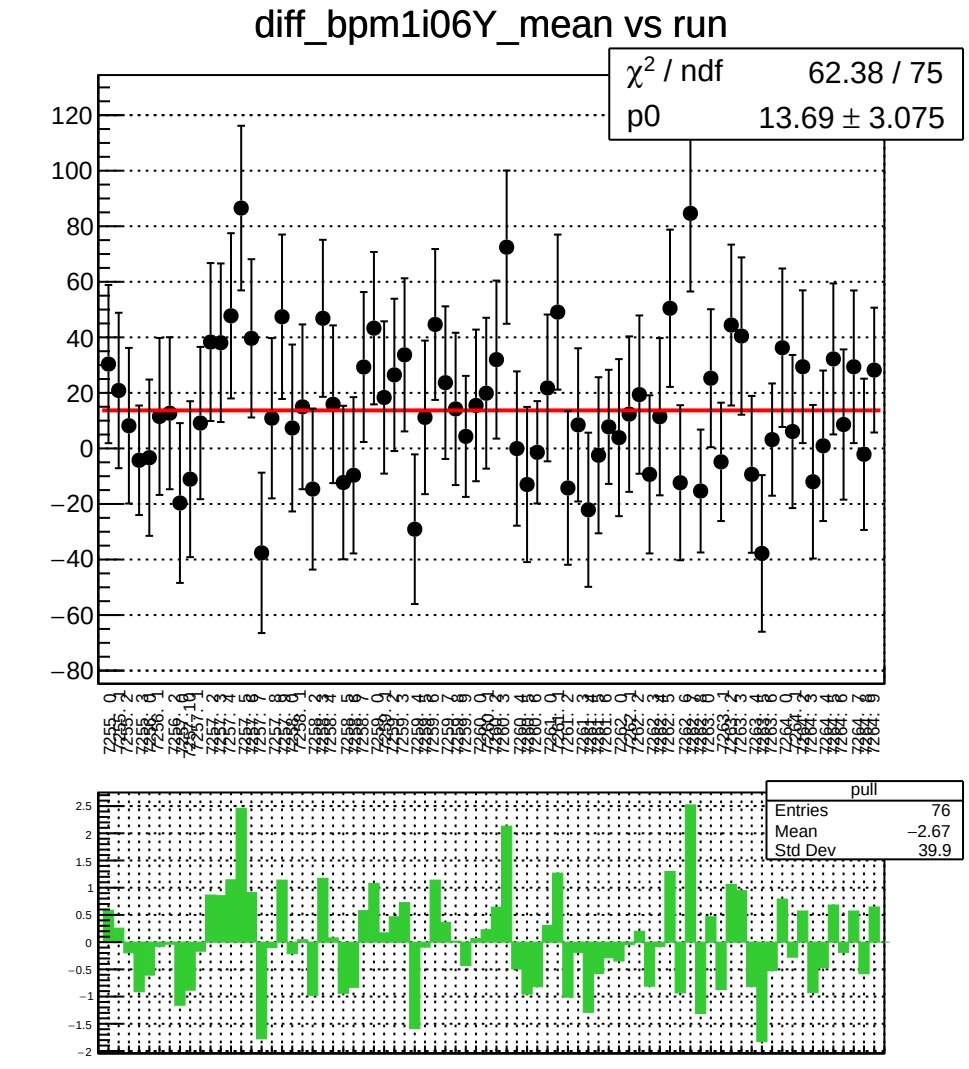

pull1D
Entries 76
Mean 0.003491
Std Dev 0.9948

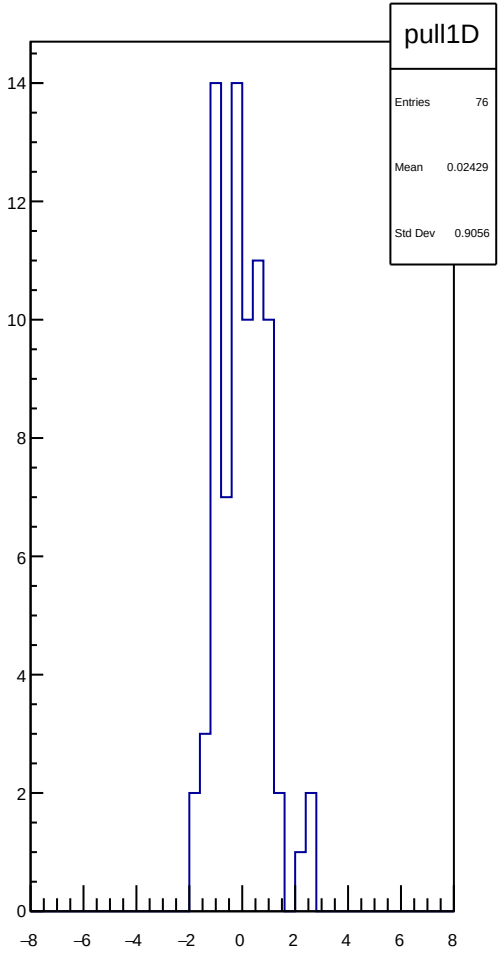

diff_bpm1i04Y_rms vs run
χ² / ndf 788.7 / 75
p0 879 ± 0.7243
920
900
880
860
840
820

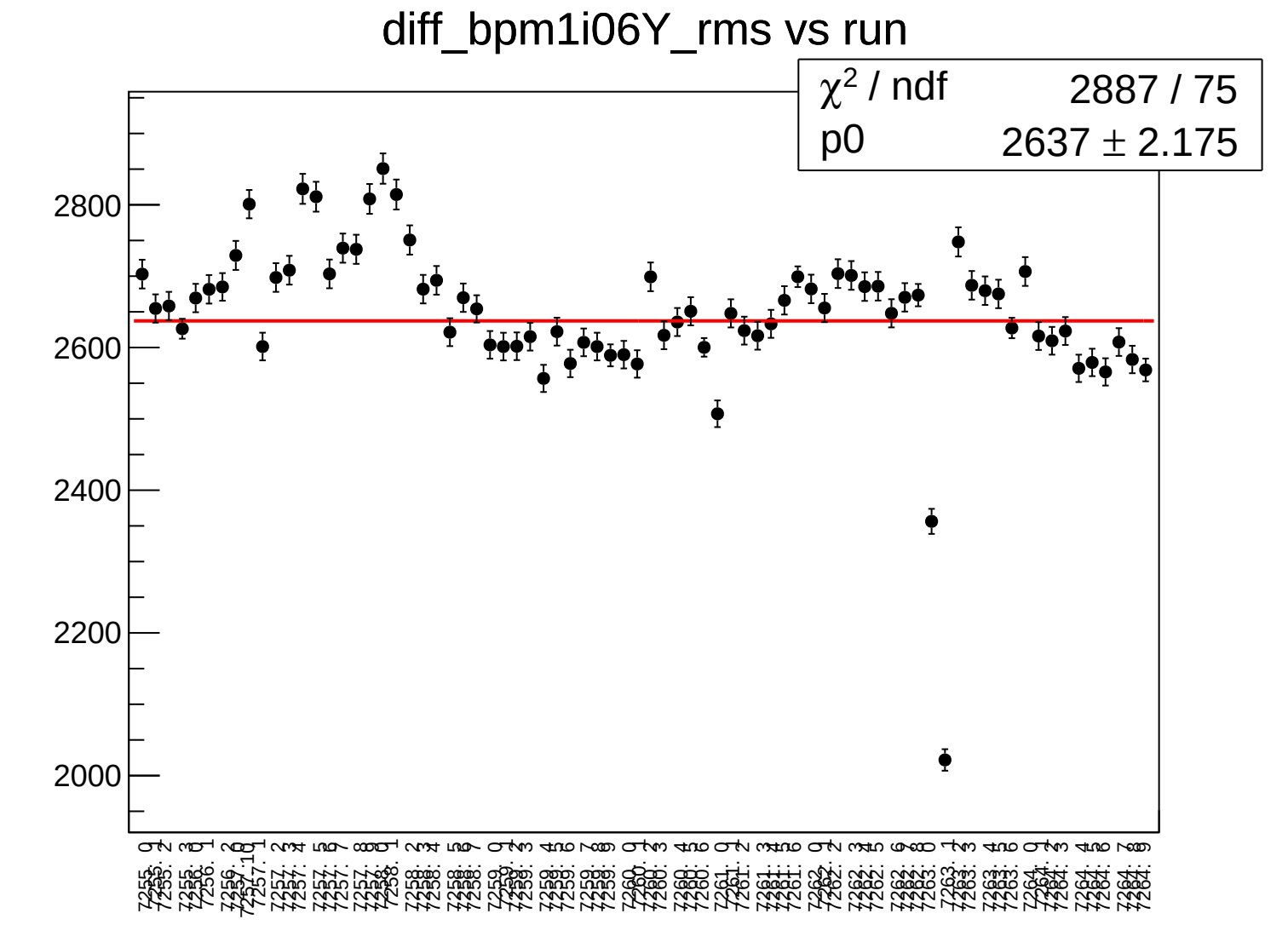

diff_bpm1i06X_mean vs run
χ² / ndf 58.44 / 75
p0 16.92 ± 2.469
pull
Entries 76
Mean −186.1
Std Dev 223.1

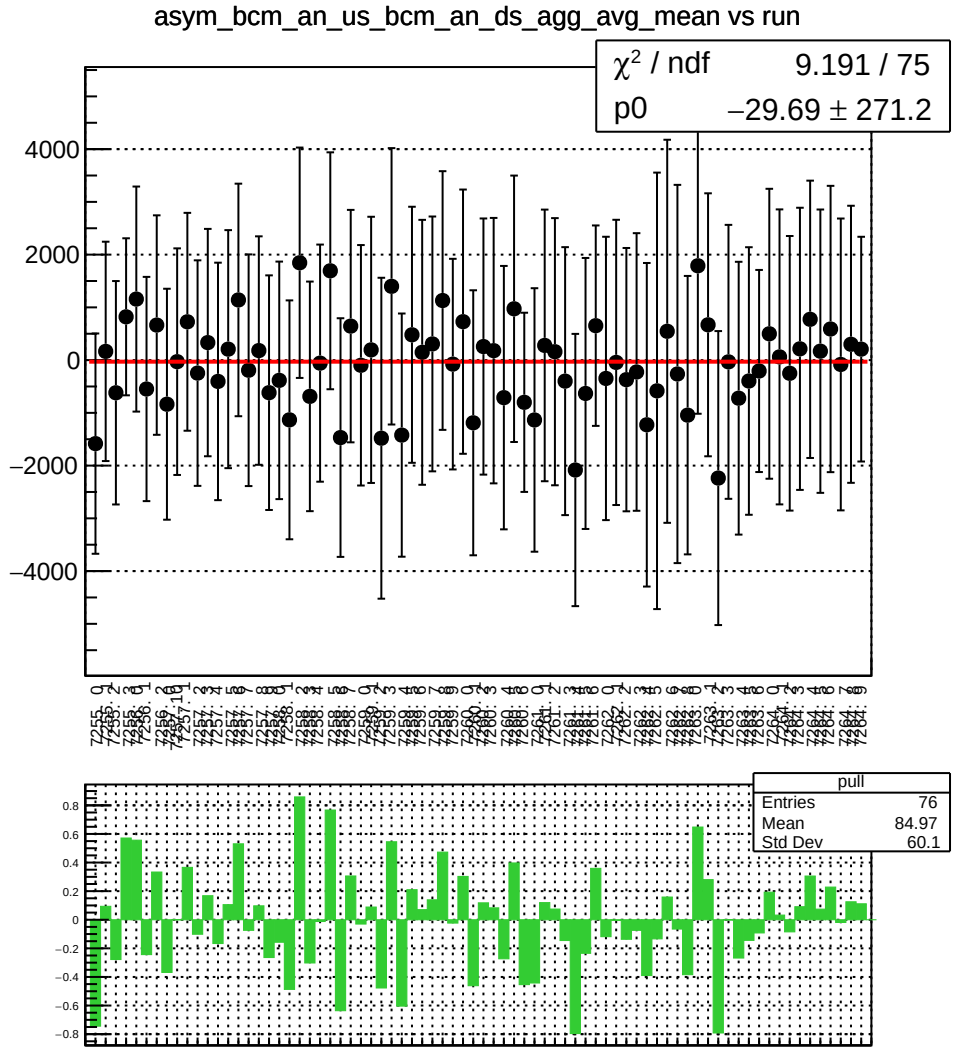

pull1D
Entries 76
Mean 0.01987
Std Dev 0.8766

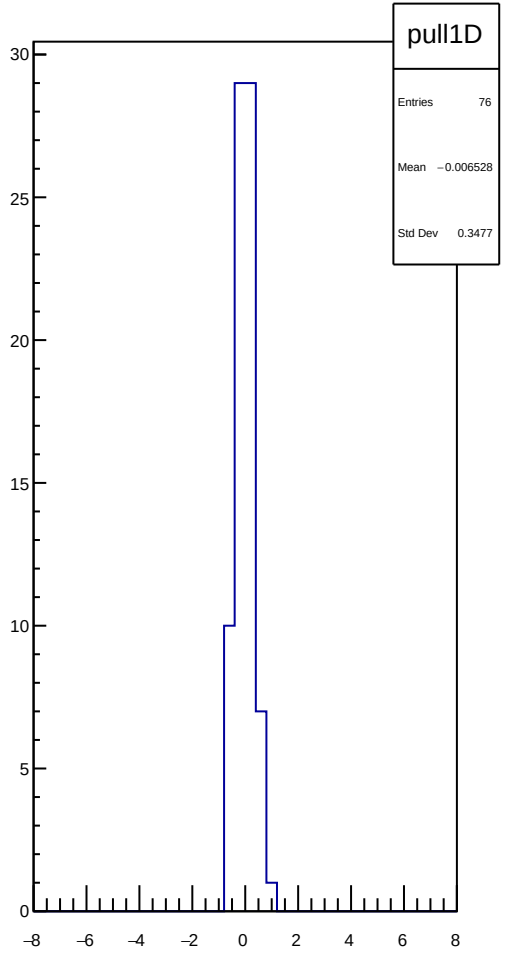

diff_bpm1i06X_rms vs run
χ² / ndf 1749 / 75
p0 2118 ± 1.746
2350
2300
2250
2200
2150
2100
2050
2000
1950
1900

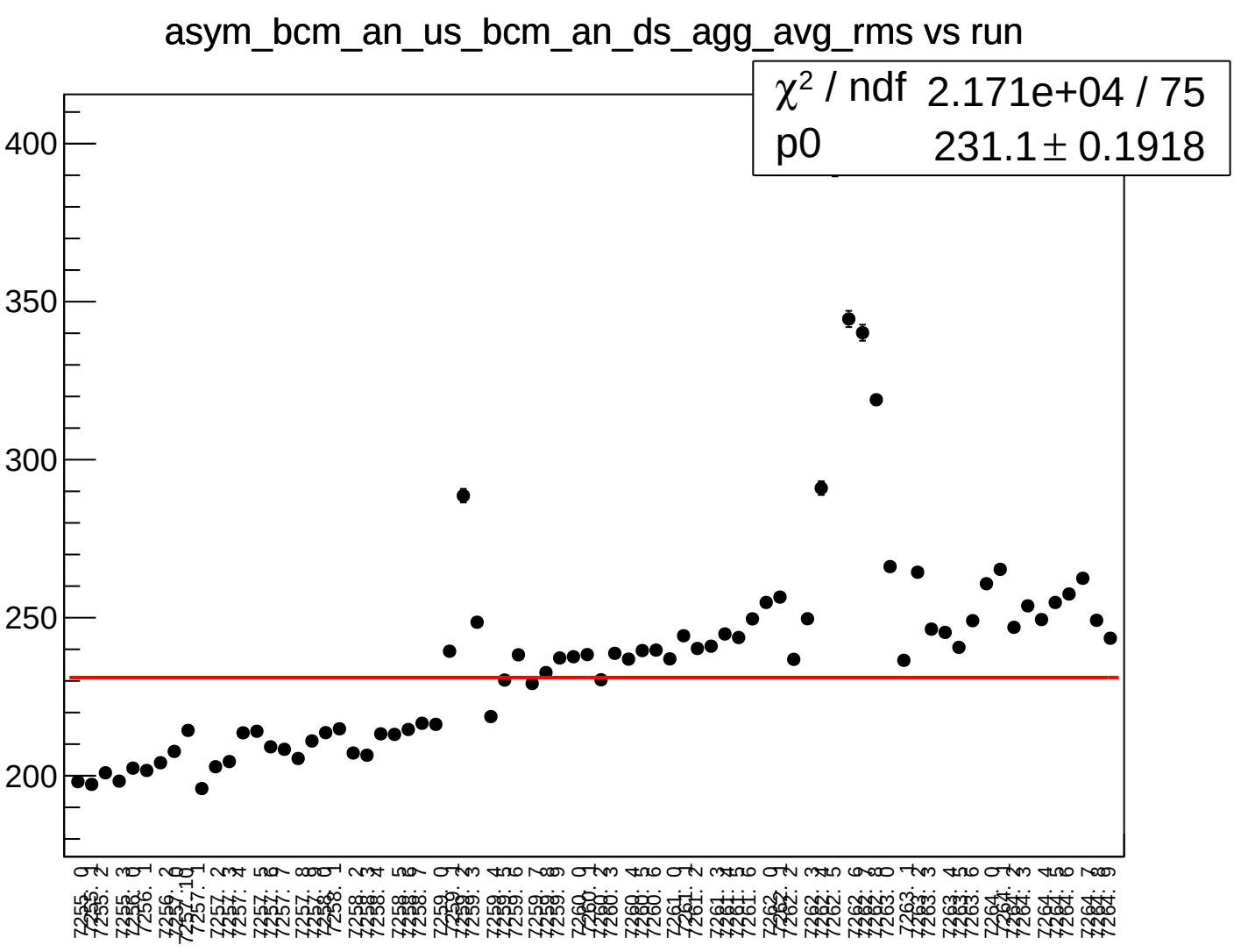

diff_bpm1i06Y_mean vs run
χ^2 / ndf 62.38 / 75
p0 13.69 ± 3.075
pull
Entries 76
Mean −2.67
Std Dev 39.9

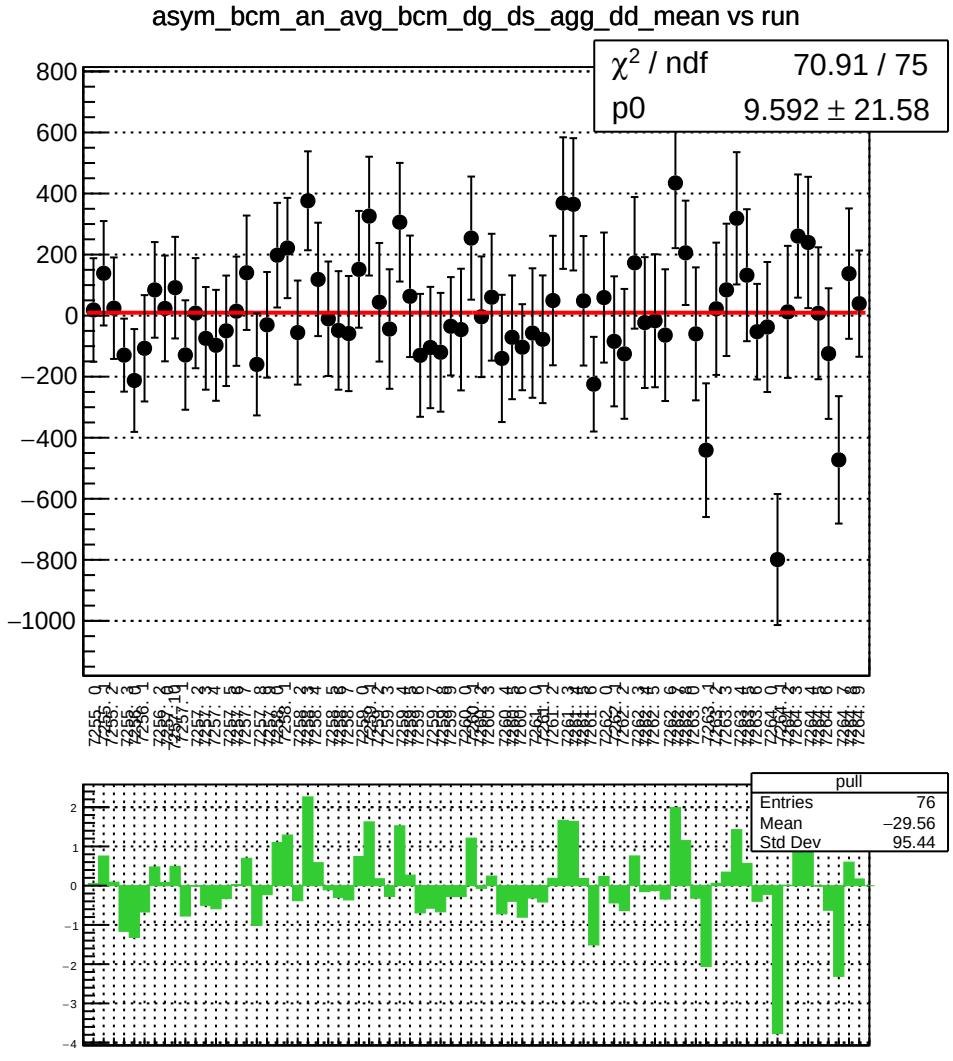

pull1D
Entries 76
Mean 0.02429
Std Dev 0.9056

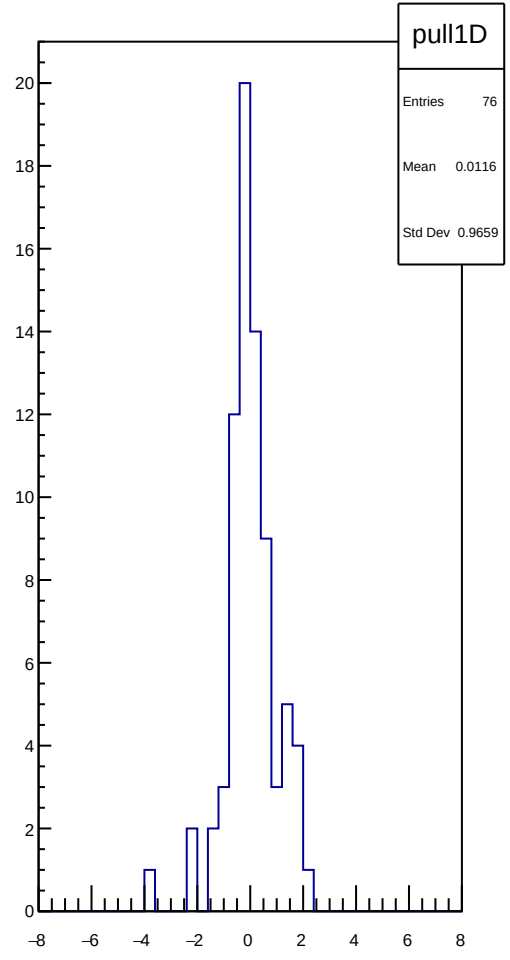

diff_bpm1i06Y_rms vs run
χ² / ndf 2887 / 75
p0 2637 ± 2.175
2800
2600
2400
2200
2000

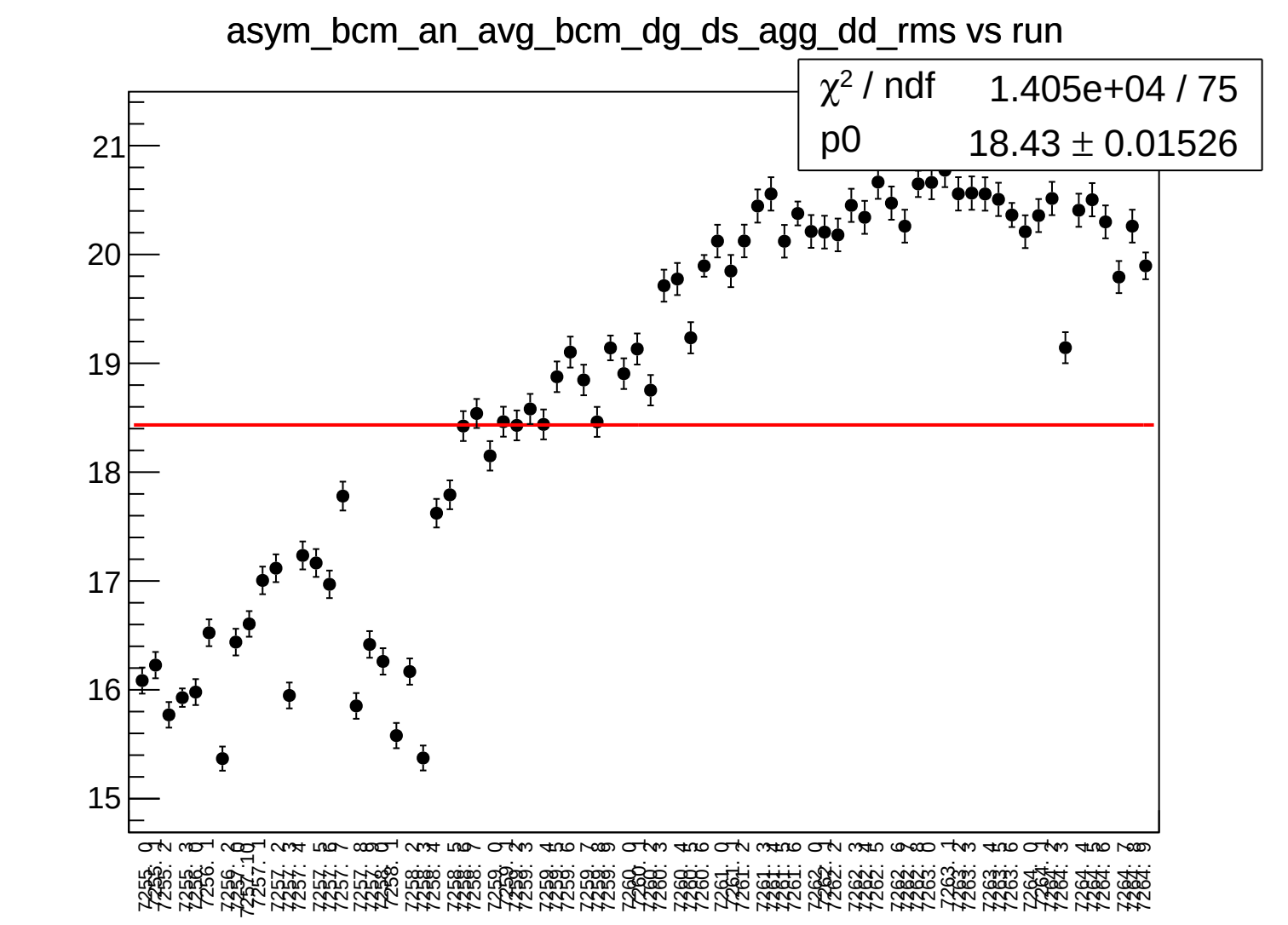

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.191 / 75
p0 −29.69 ± 271.2
4000
2000
0
−2000
−4000
pull
Entries 76
Mean 84.97
Std Dev 60.1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

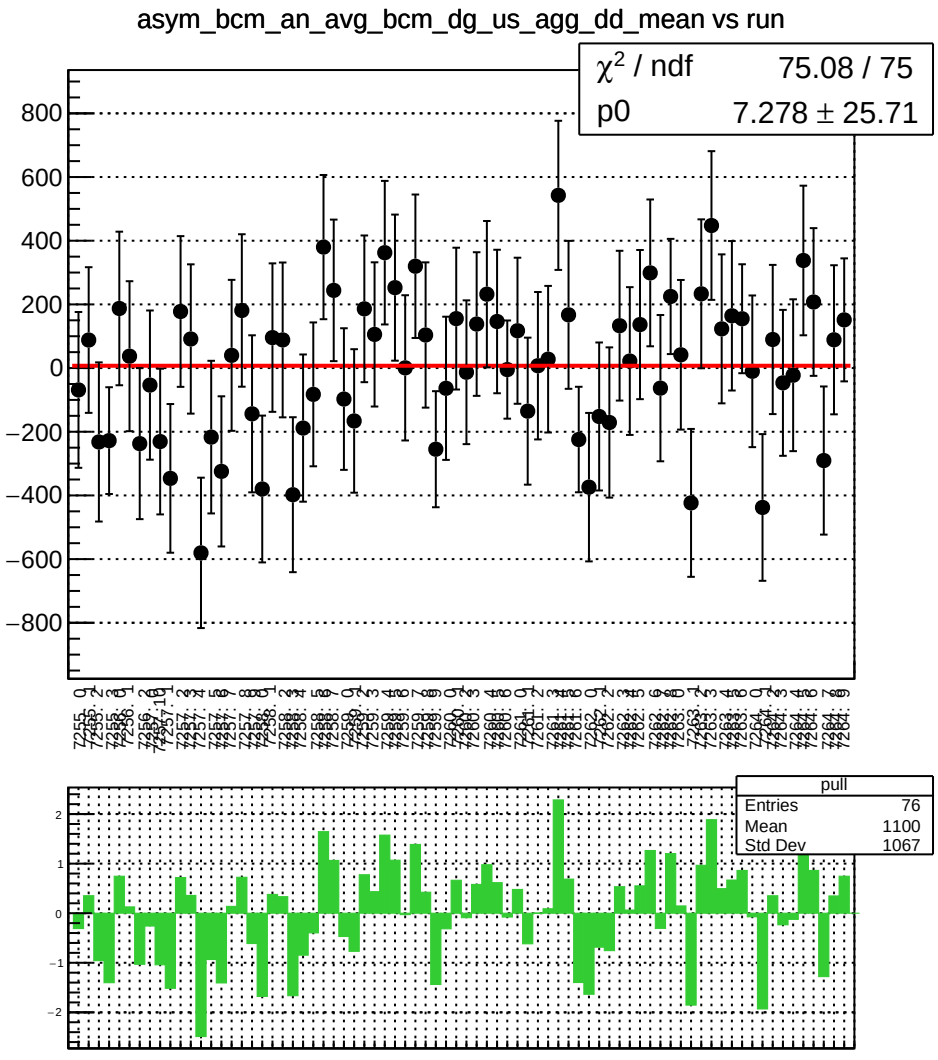

pull1D
Entries 76
Mean −0.006528
Std Dev 0.3477
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

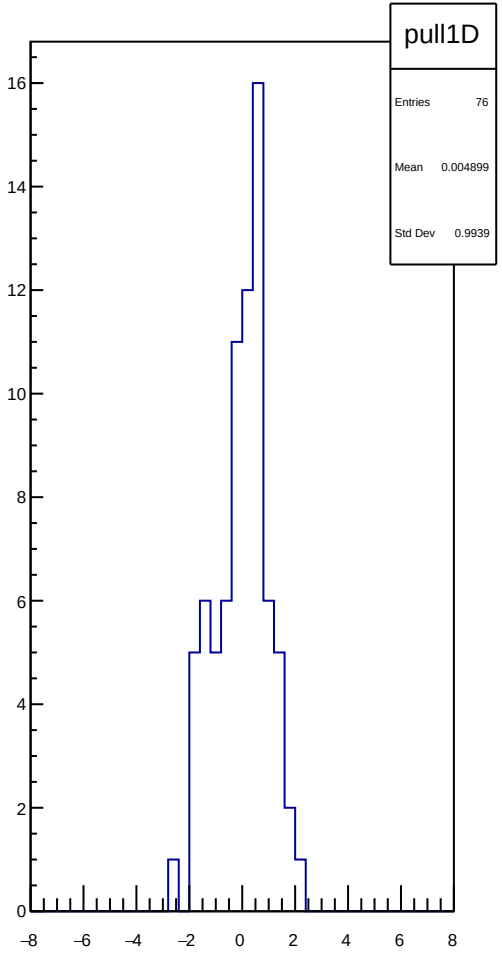

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.171e+04 / 75
p0 231.1 ± 0.1918
400
350
300
250
200

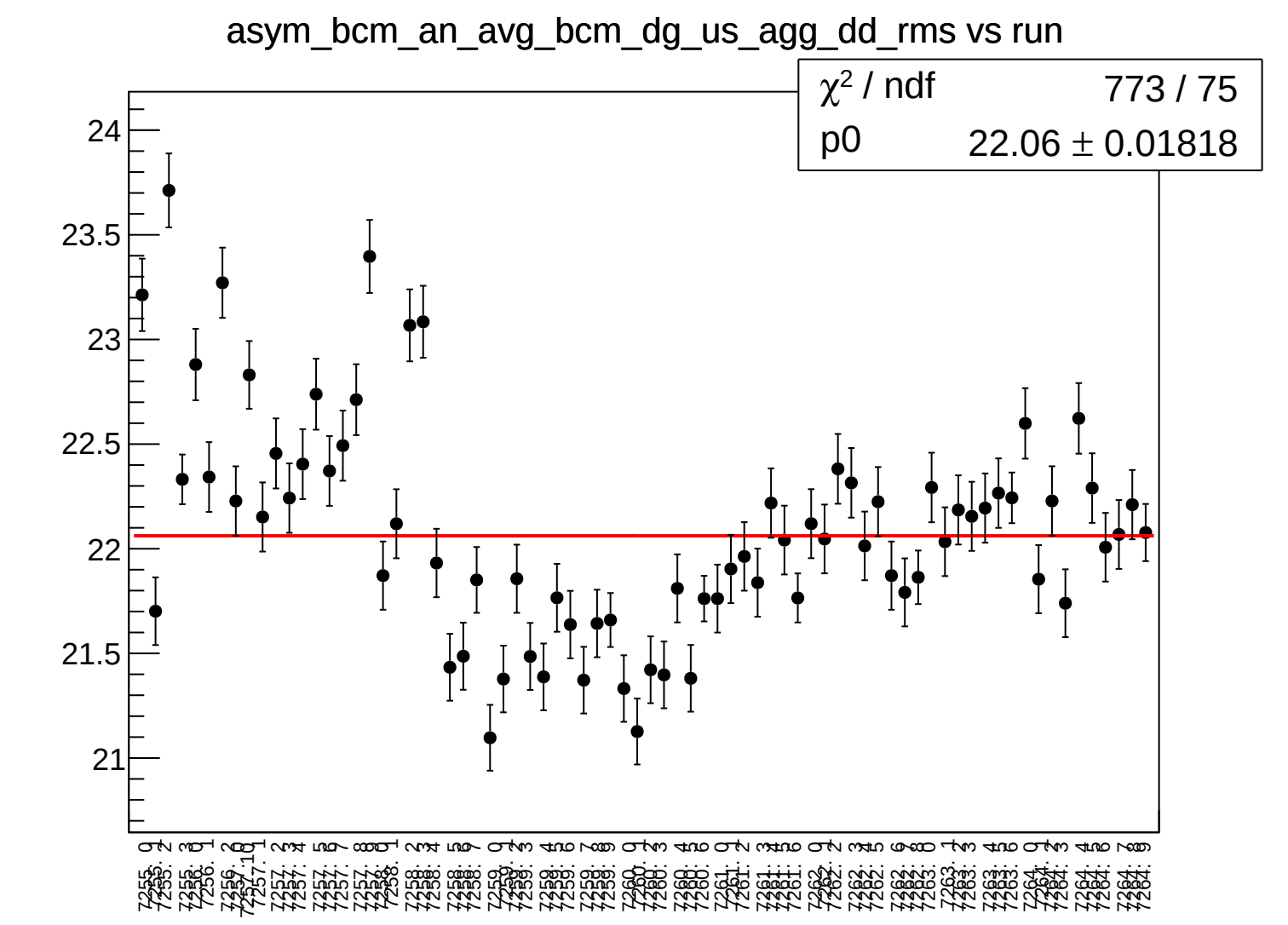

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70.91 / 75
p0 9.592 ± 21.58
pull
Entries 76
Mean −29.56
Std Dev 95.44

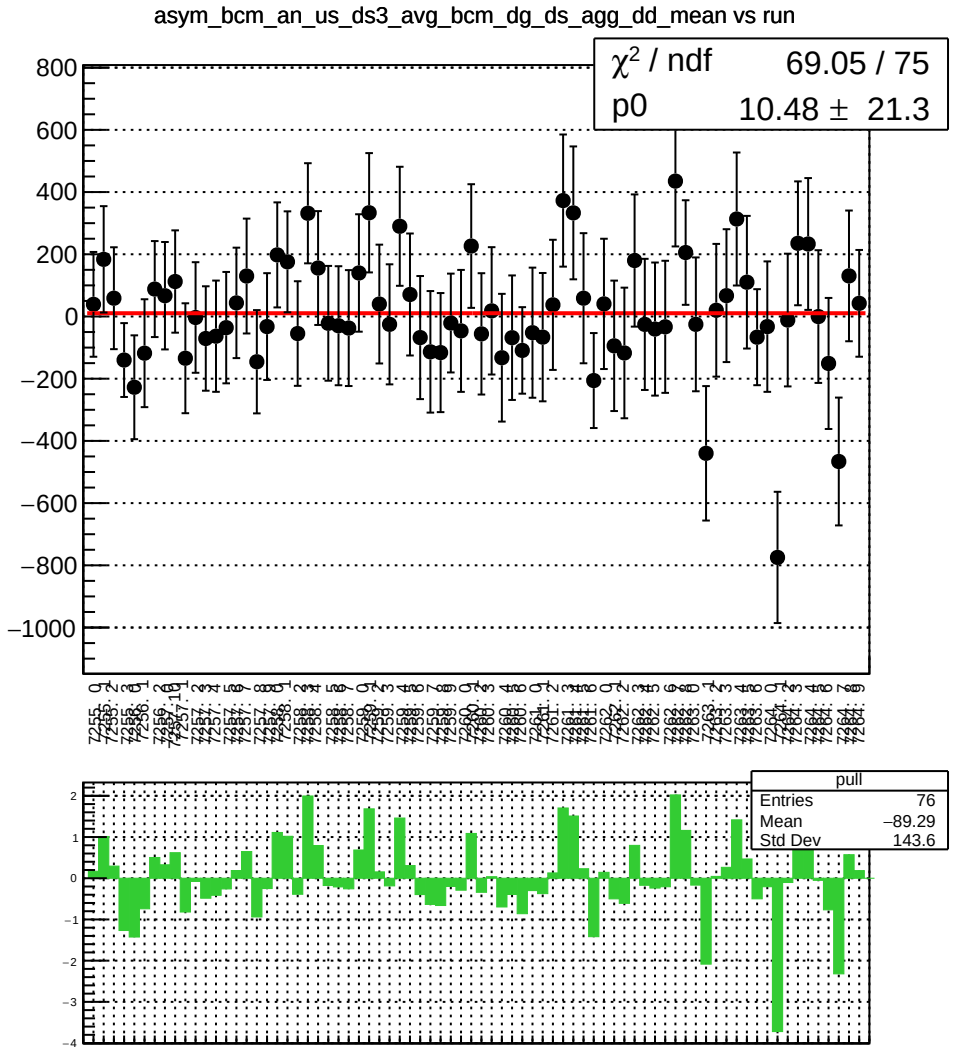

pull1D
Entries 76
Mean 0.0116
Std Dev 0.9659

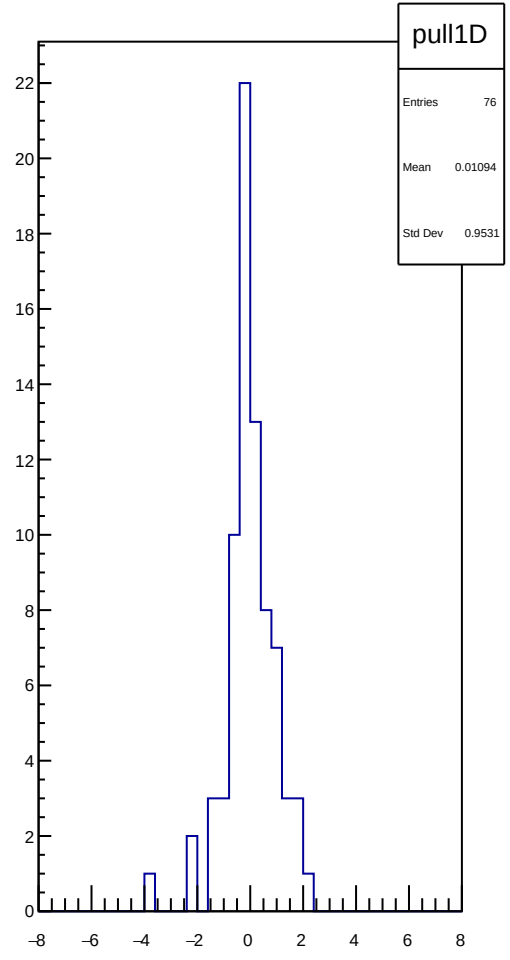

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.405e+04 / 75
p0 18.43 ± 0.01526
21
20
19
18
17
16
15

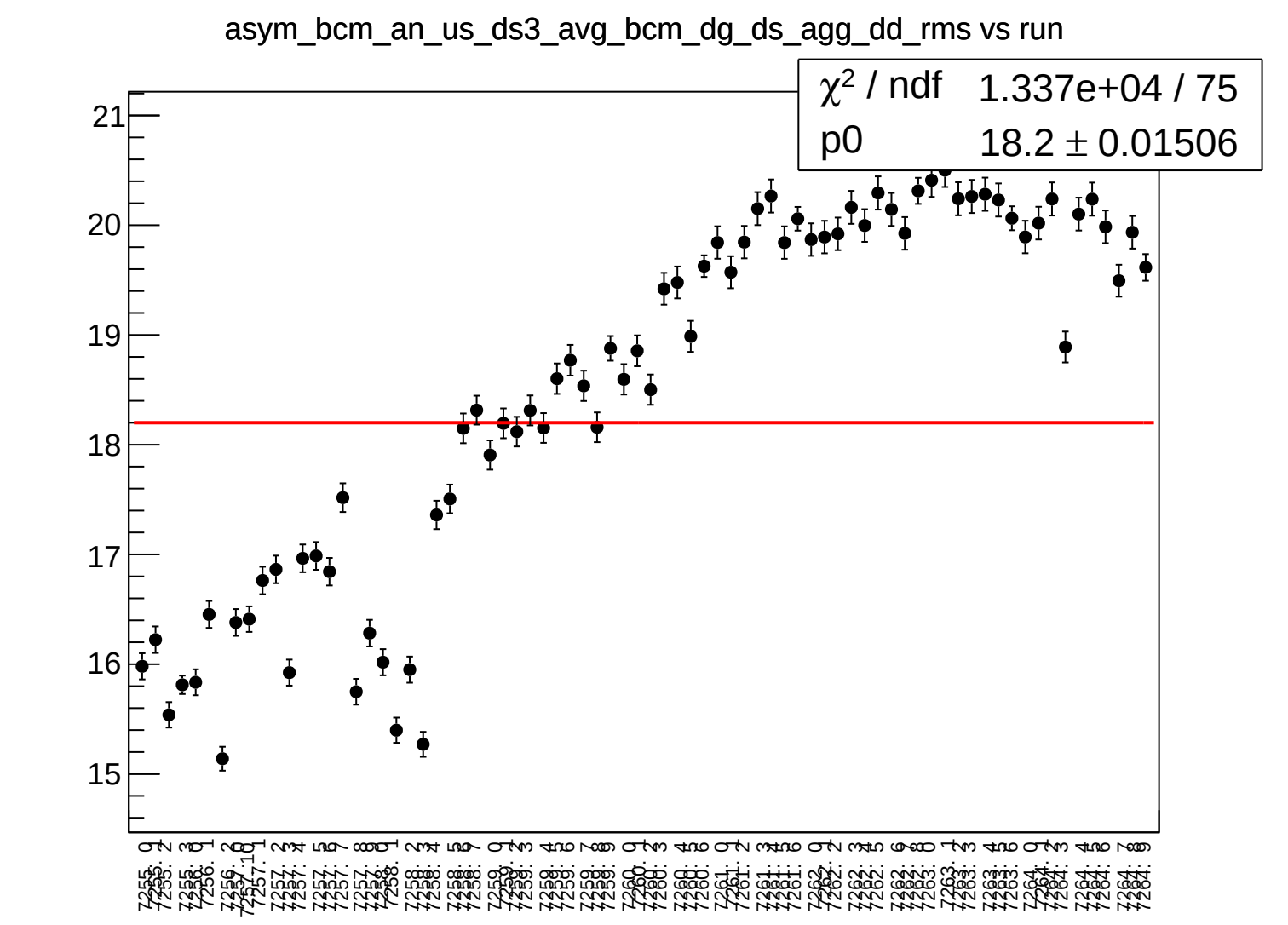

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 75.08 / 75
p0 7.278 ± 25.71
pull
Entries 76
Mean 1100
Std Dev 1067

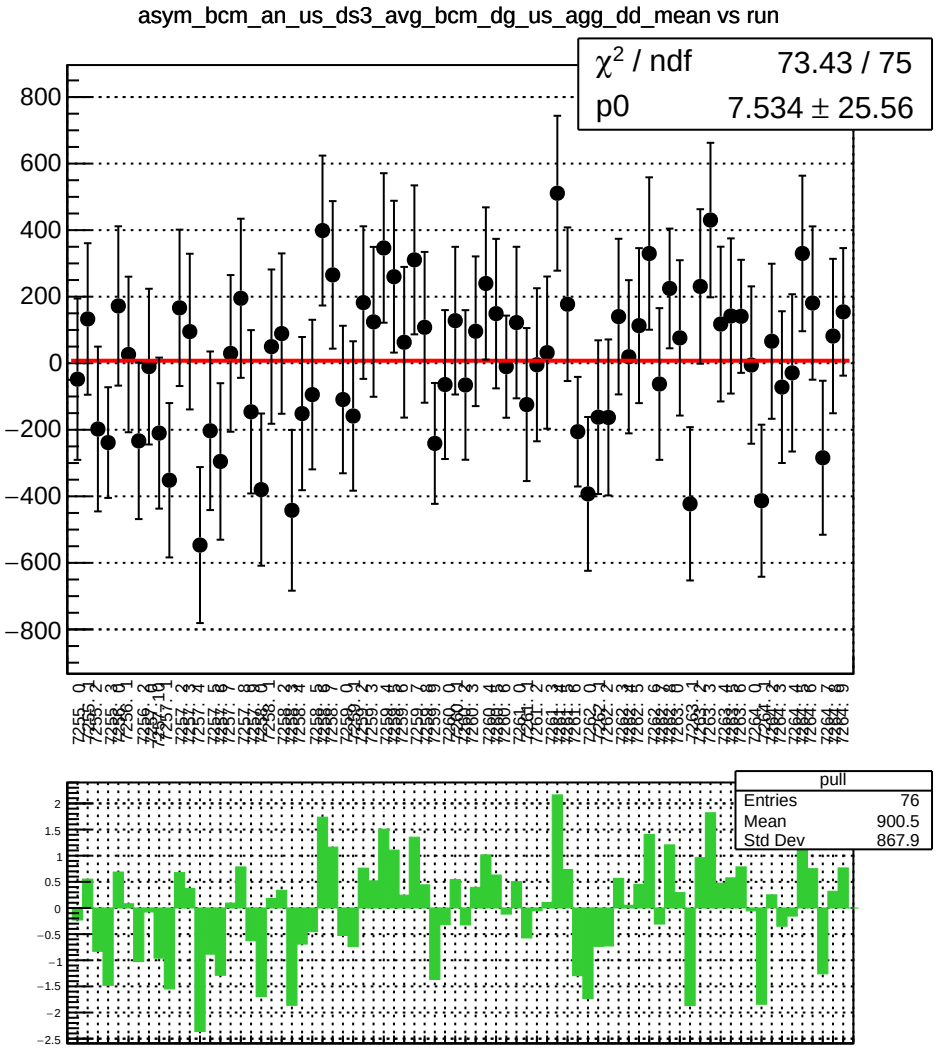

pull1D
Entries 76
Mean 0.004899
Std Dev 0.9939

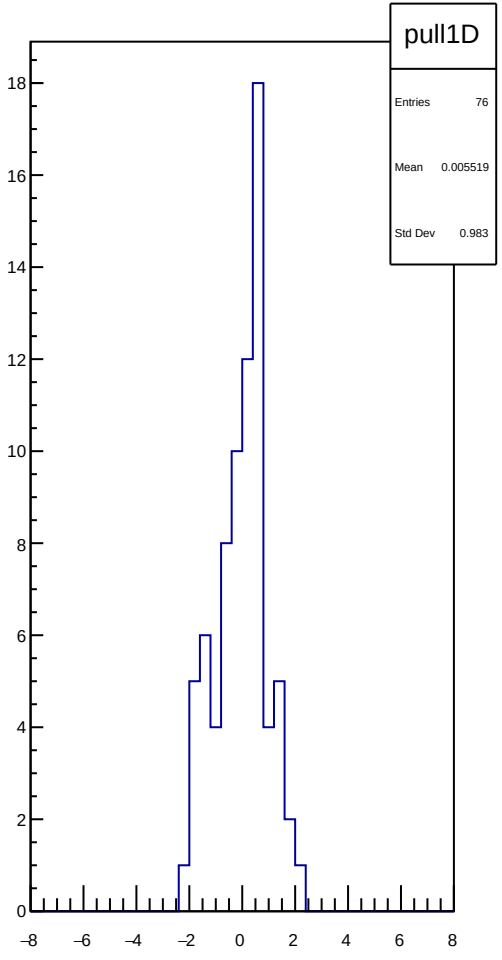

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 773 / 75
p0 22.06 ± 0.01818
24
23.5
23
22.5
22
21.5
21

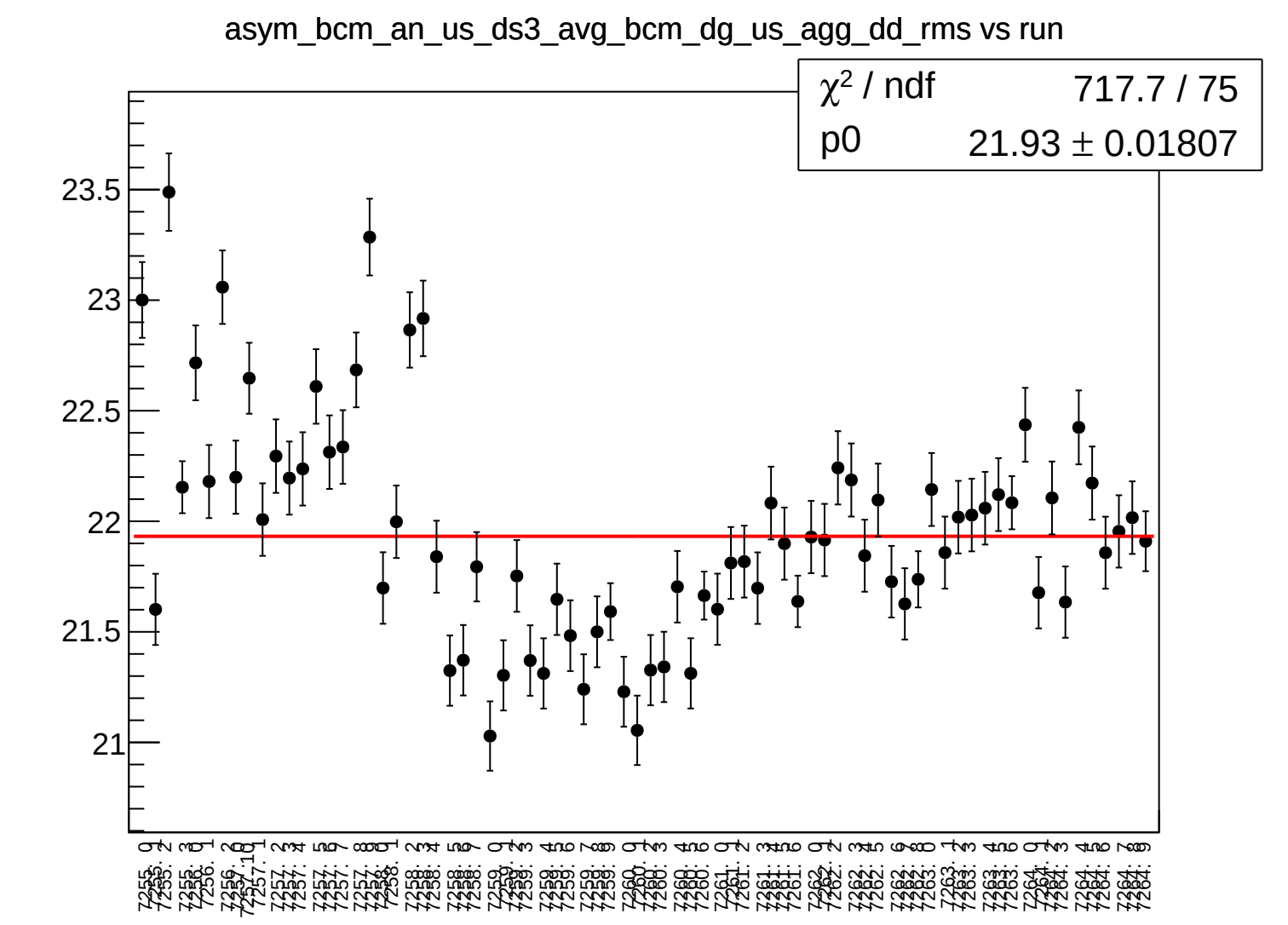

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 69.05 / 75
p0 10.48 ± 21.3
pull
Entries 76
Mean −89.29
Std Dev 143.6

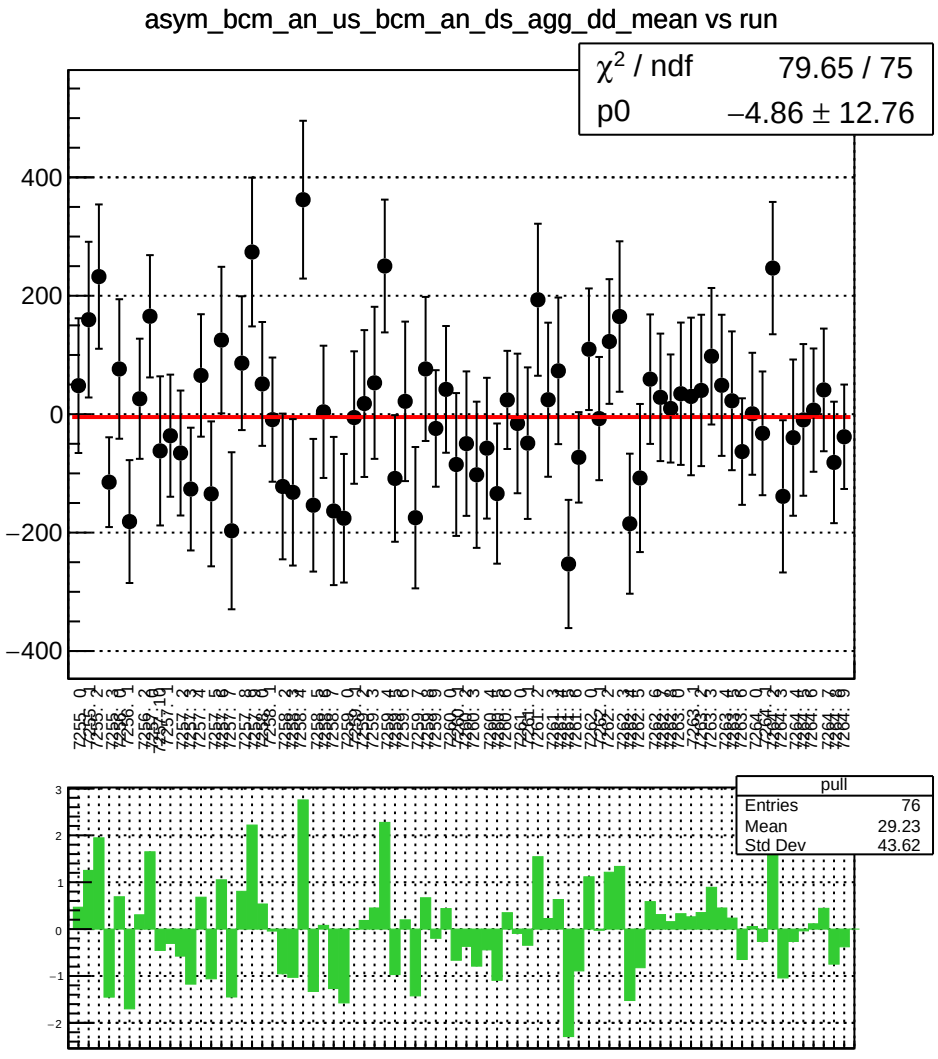

pull1D
Entries 76
Mean 0.01094
Std Dev 0.9531

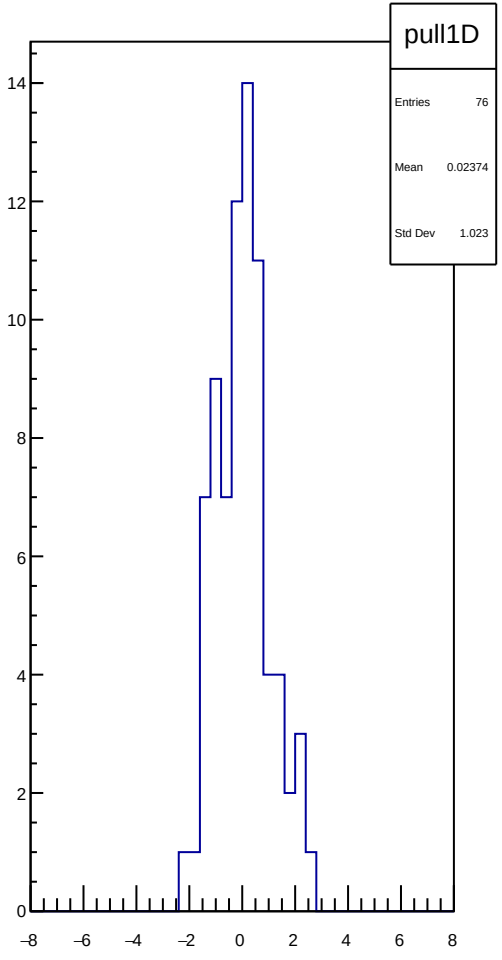

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1.337e+04 / 75
p0 18.2 ± 0.01506
21
20
19
18
17
16
15

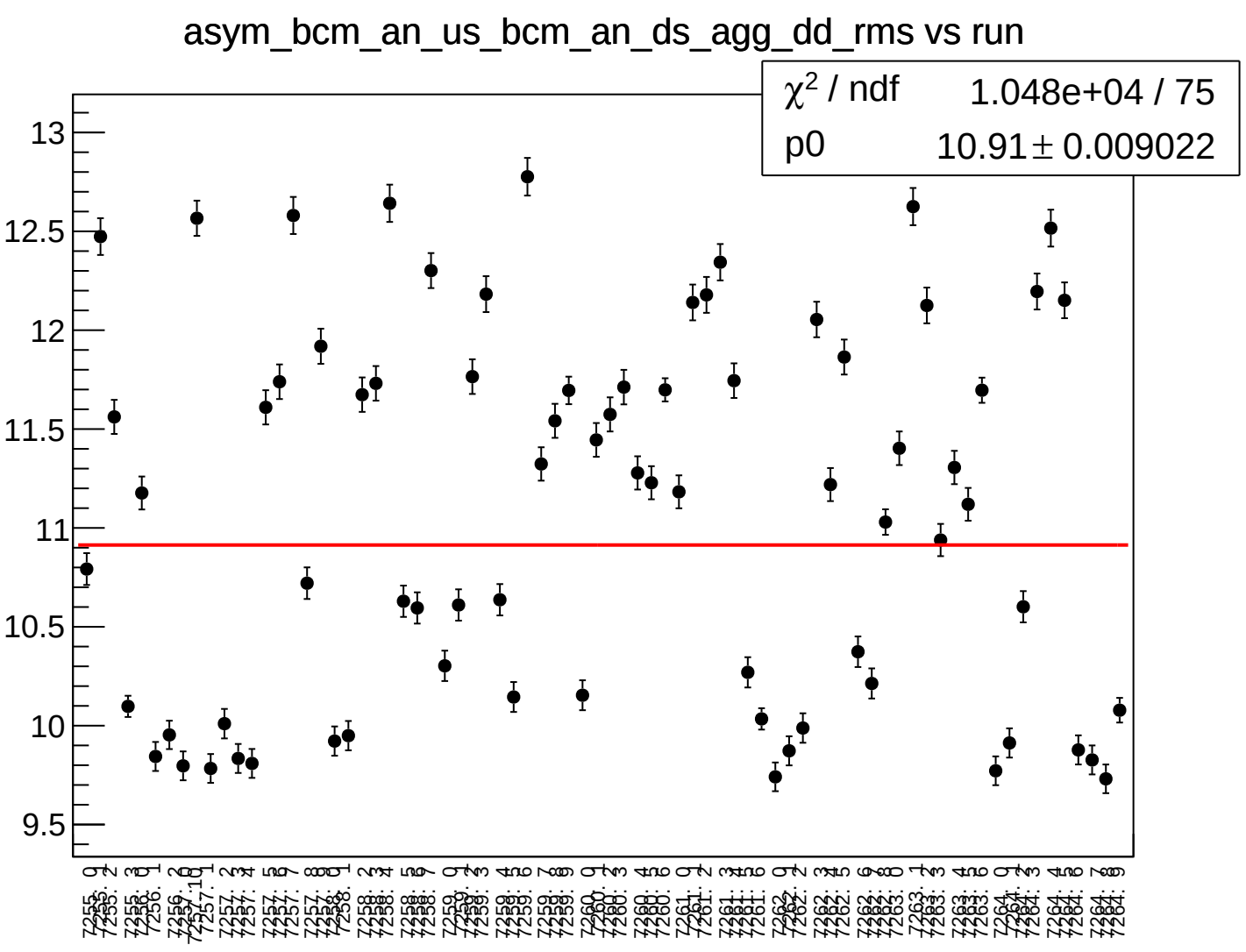

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 73.43 / 75
p0 7.534 ± 25.56
pull
Entries 76
Mean 900.5
Std Dev 867.9

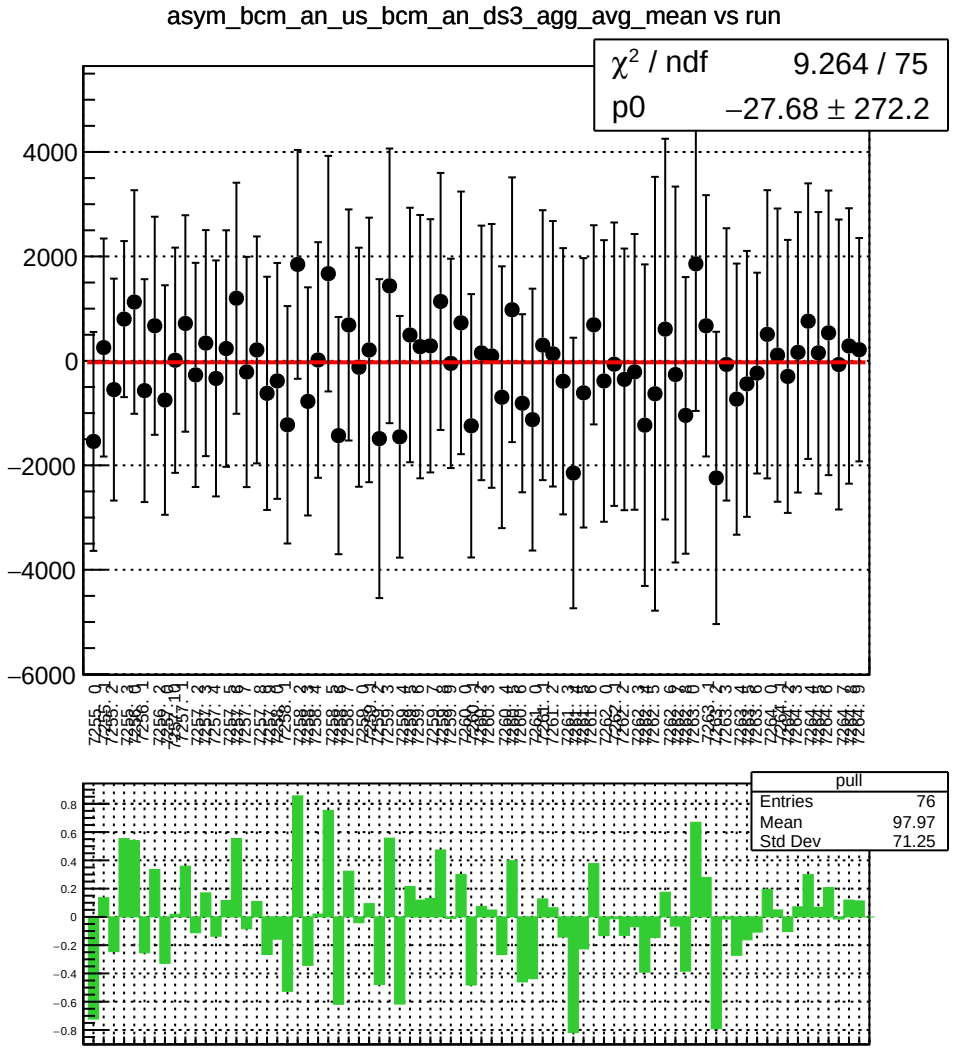

pull1D
Entries 76
Mean 0.005519
Std Dev 0.983

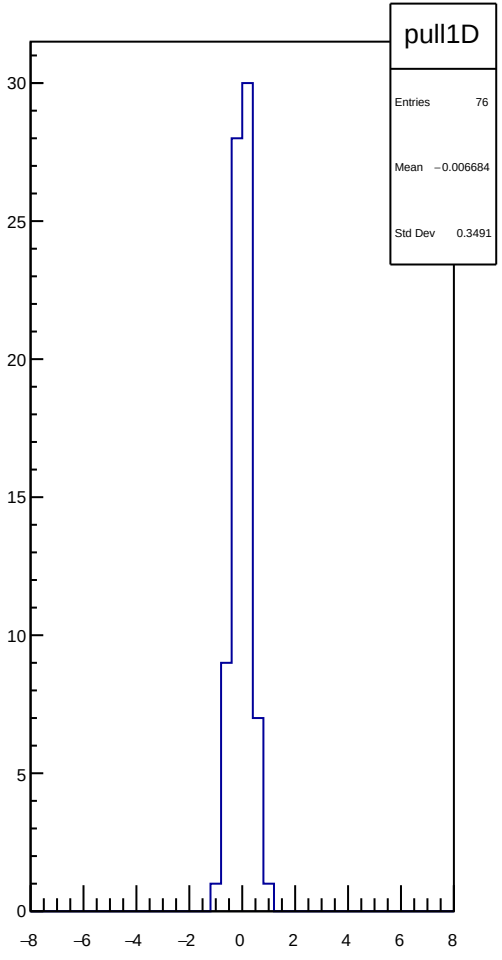

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 717.7 / 75
p0 21.93 ± 0.01807
23.5
23
22.5
22
21.5
21

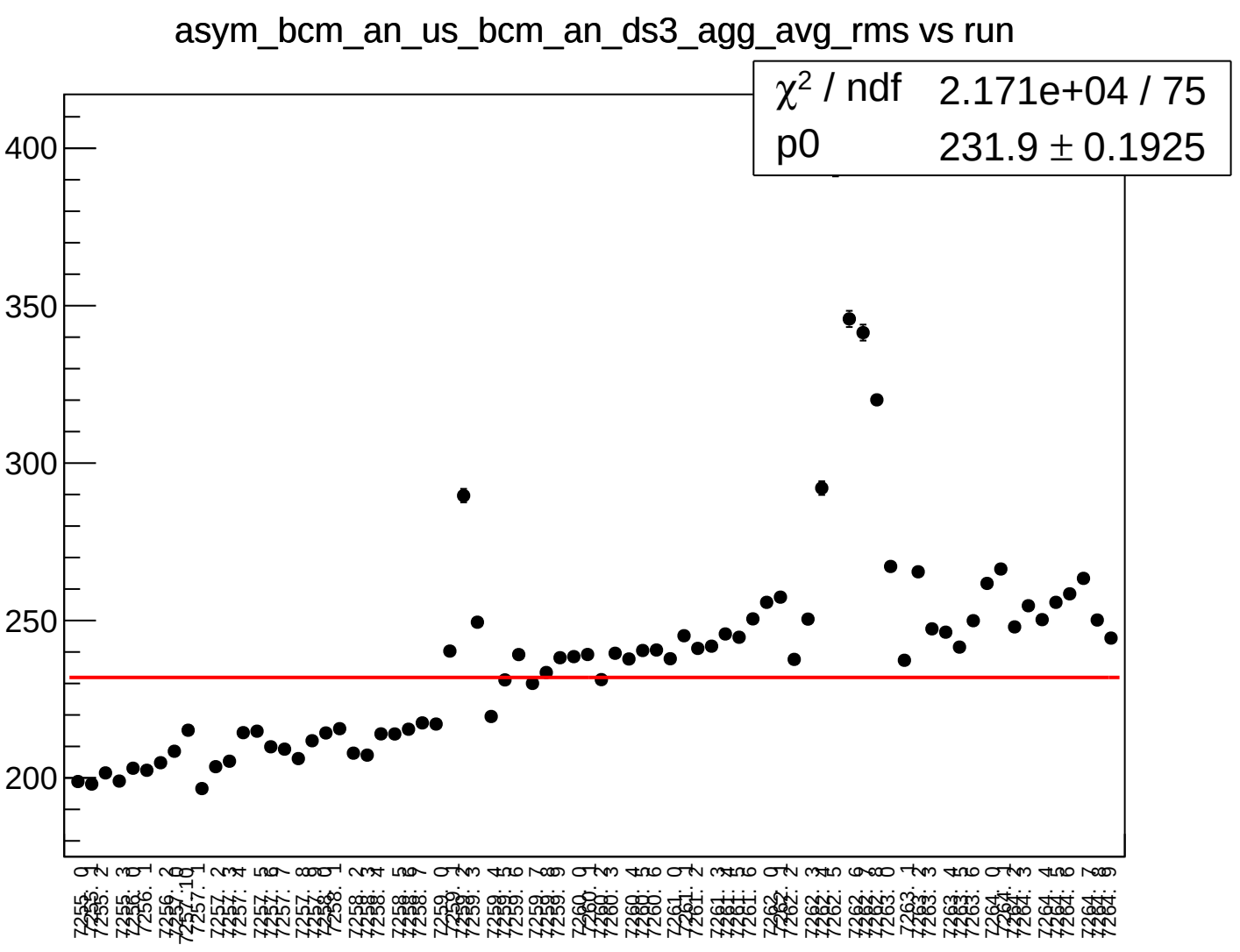

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 79.65 / 75
p0 −4.86 ± 12.76
pull
Entries 76
Mean 29.23
Std Dev 43.62

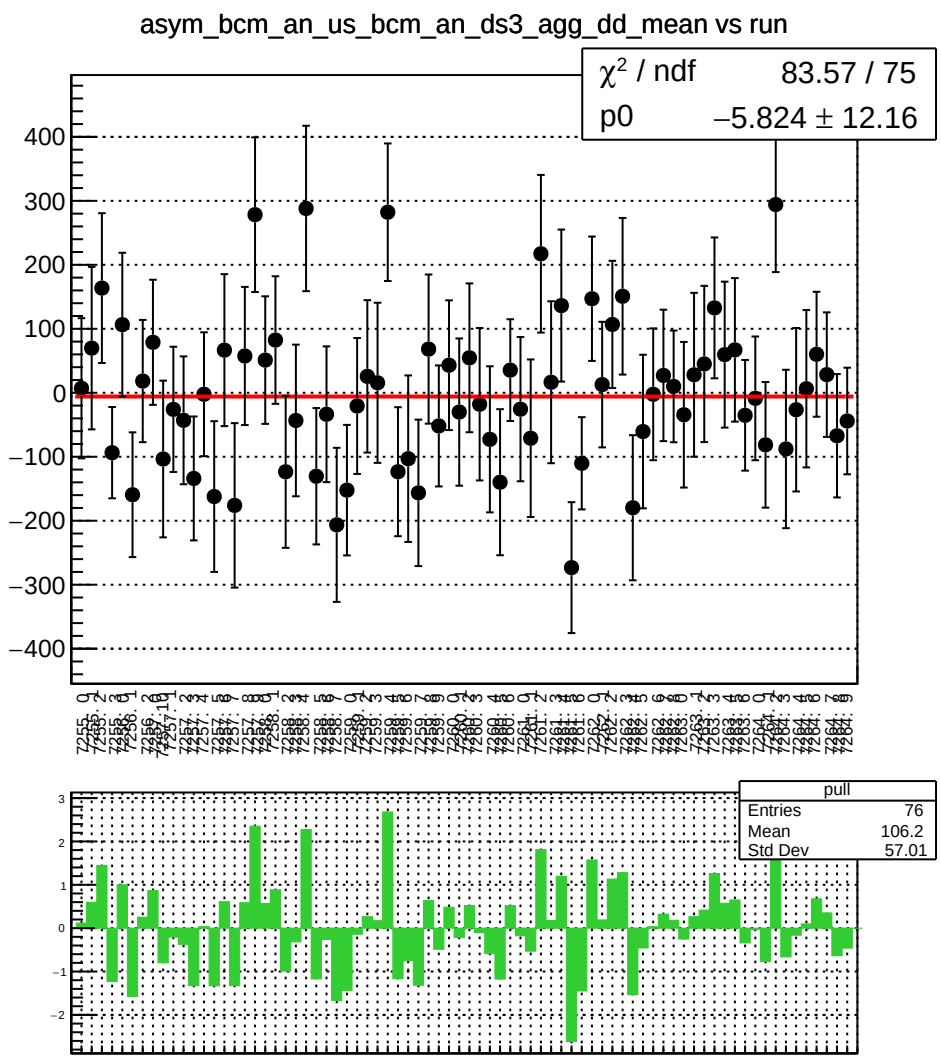

pull1D
Entries 76
Mean 0.02374
Std Dev 1.023

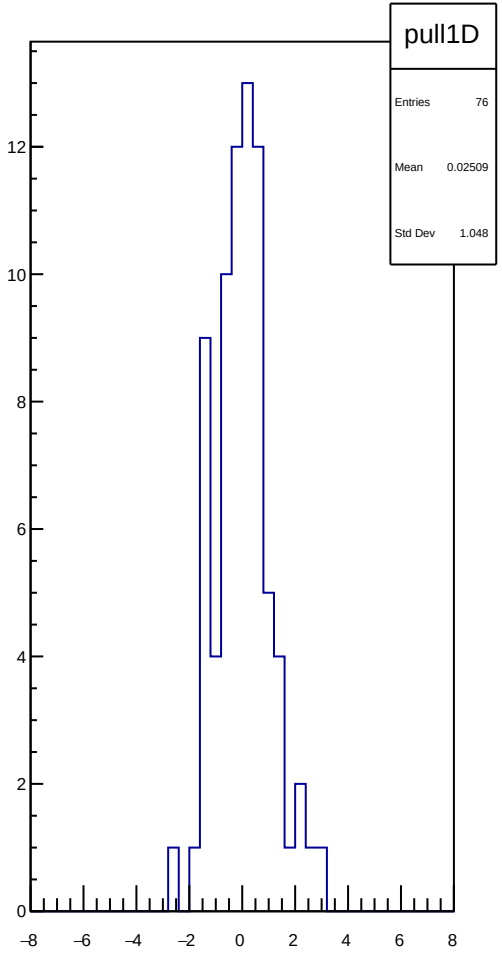

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.048e+04 / 75
p0 10.91 ± 0.009022
13
12.5
12
11.5
11
10.5
10
9.5

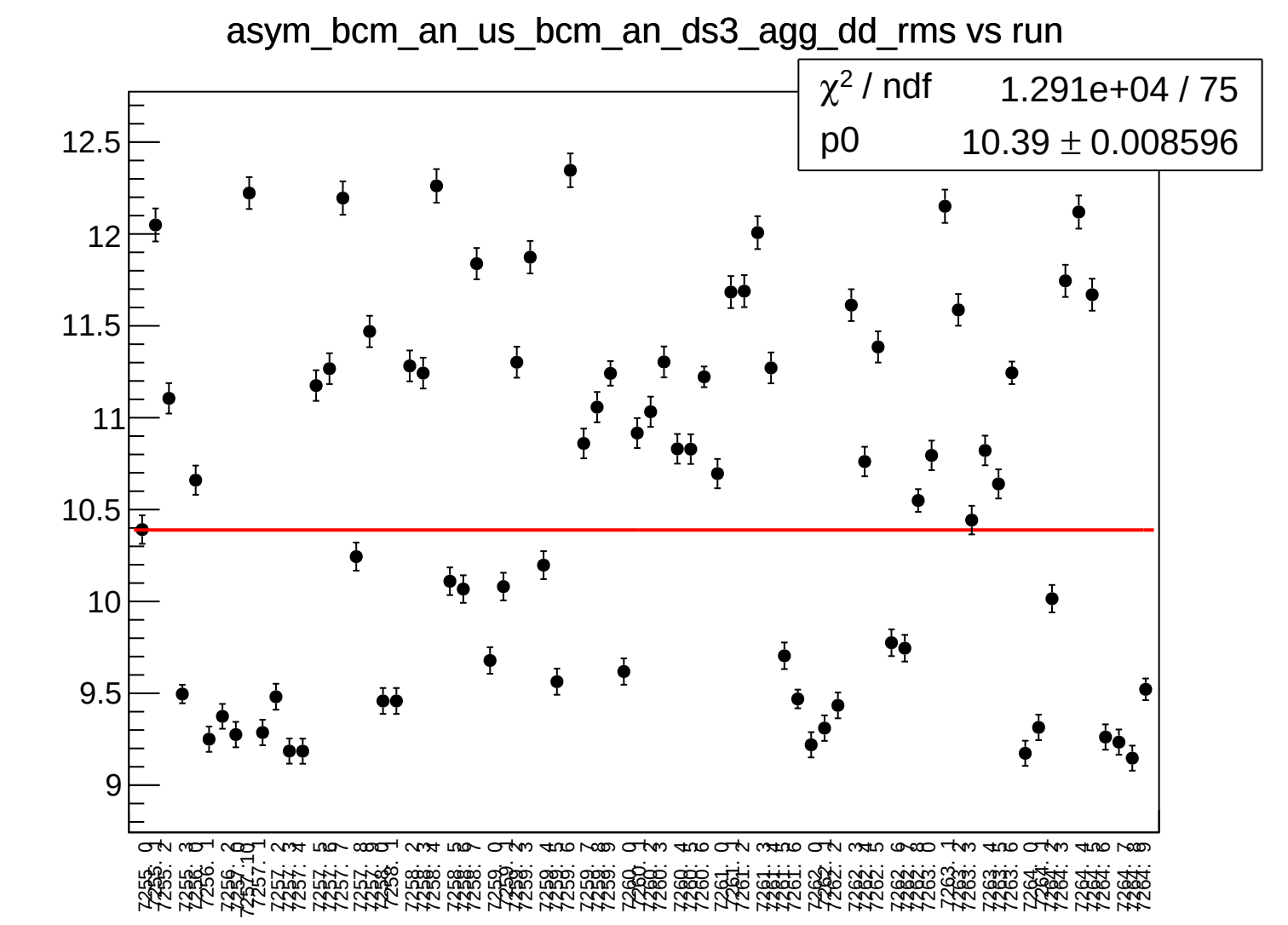

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.264 / 75
p0 −27.68 ± 272.2
pull
Entries 76
Mean 97.97
Std Dev 71.25

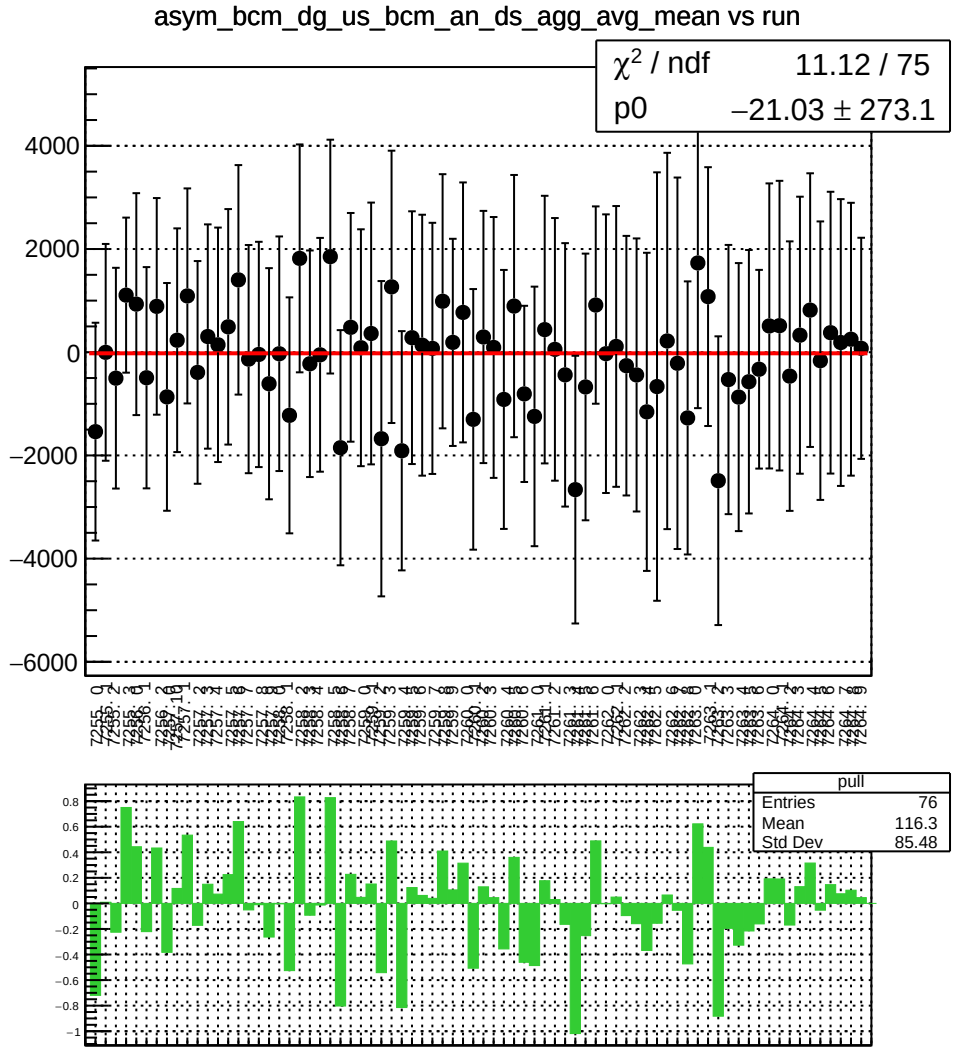

pull1D
Entries 76
Mean −0.006684
Std Dev 0.3491

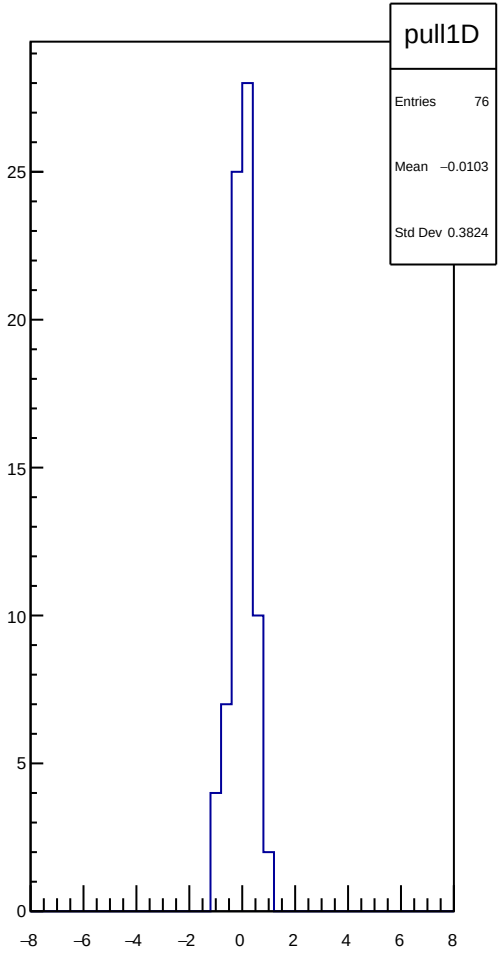

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 2.171e+04 / 75
p0 231.9 ± 0.1925
400
350
300
250
200

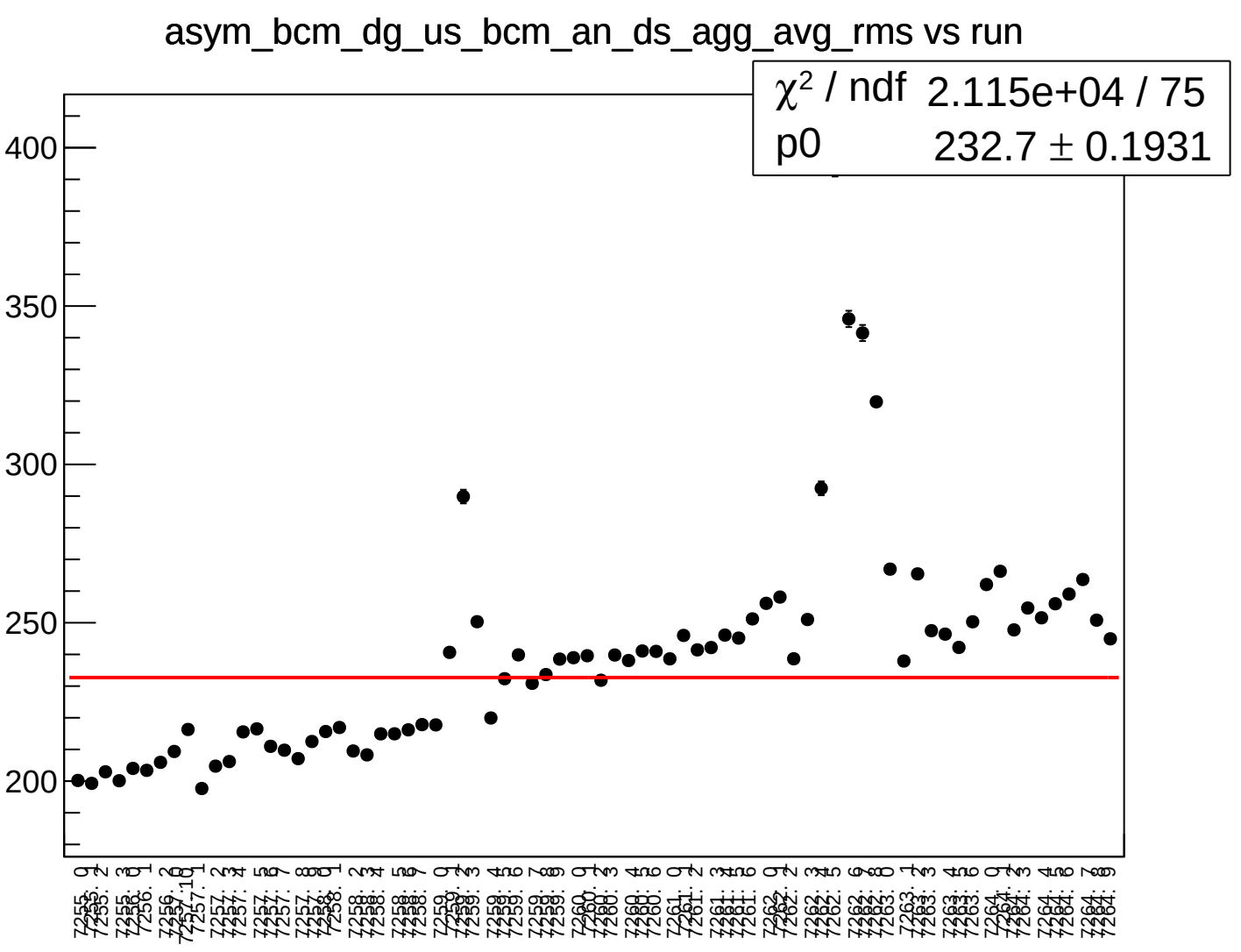

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 83.57 / 75
p0 −5.824 ± 12.16
pull
Entries 76
Mean 106.2
Std Dev 57.01

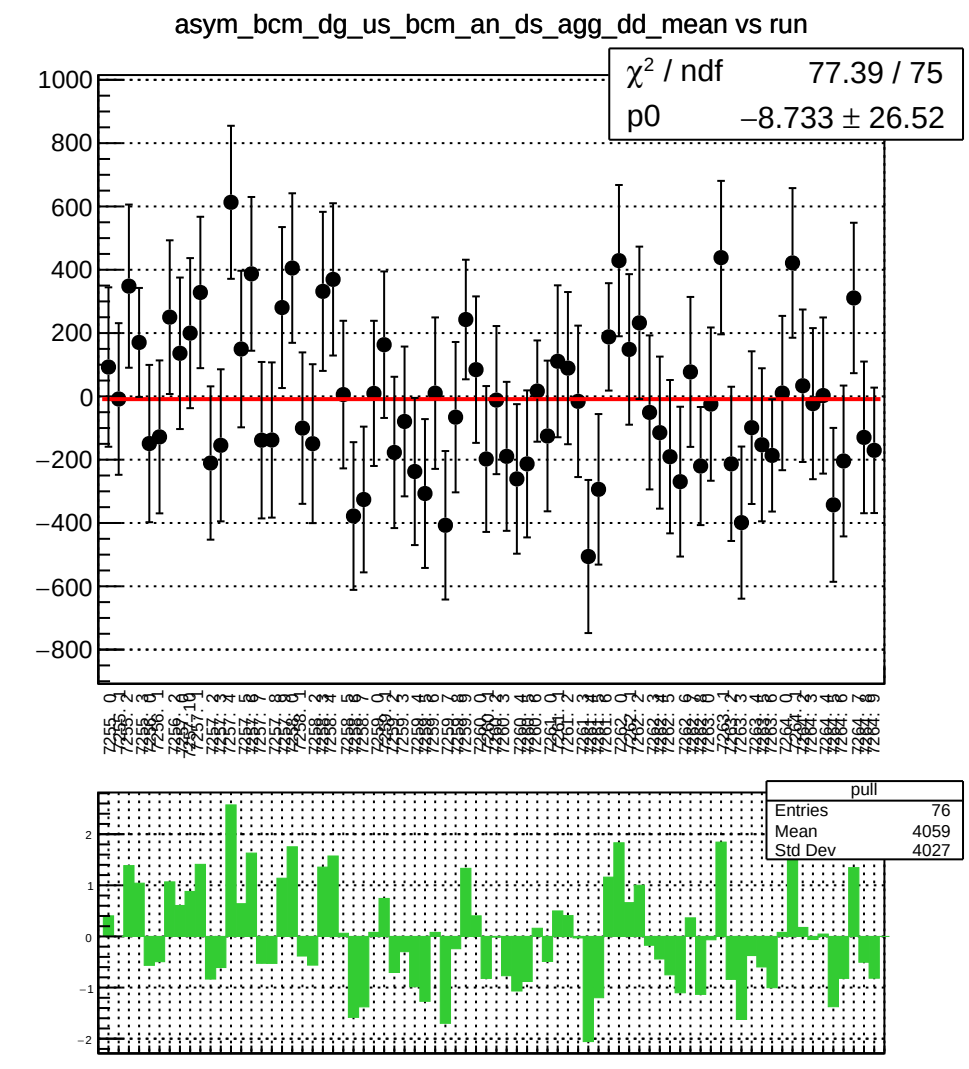

pull1D
Entries 76
Mean 0.02509
Std Dev 1.048

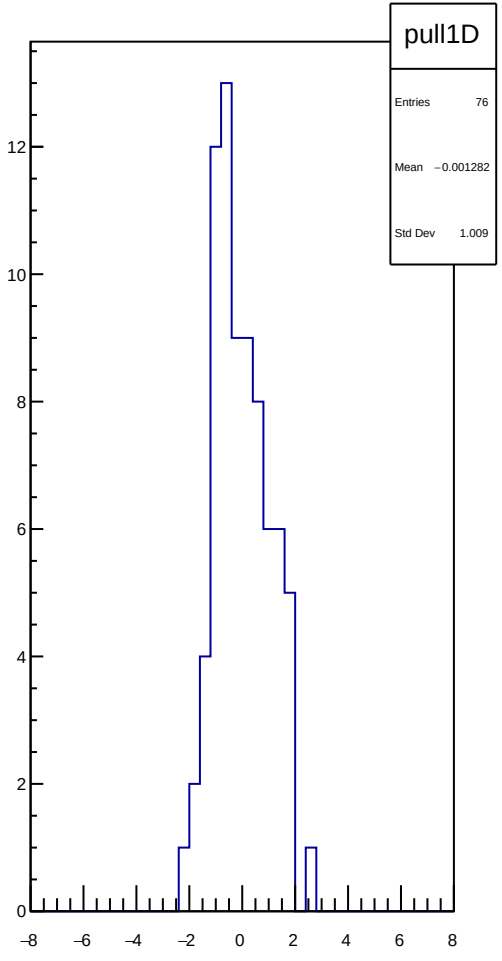

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.291e+04 / 75
p0 10.39 ± 0.008596
12.5
12
11.5
11
10.5
10
9.5
9

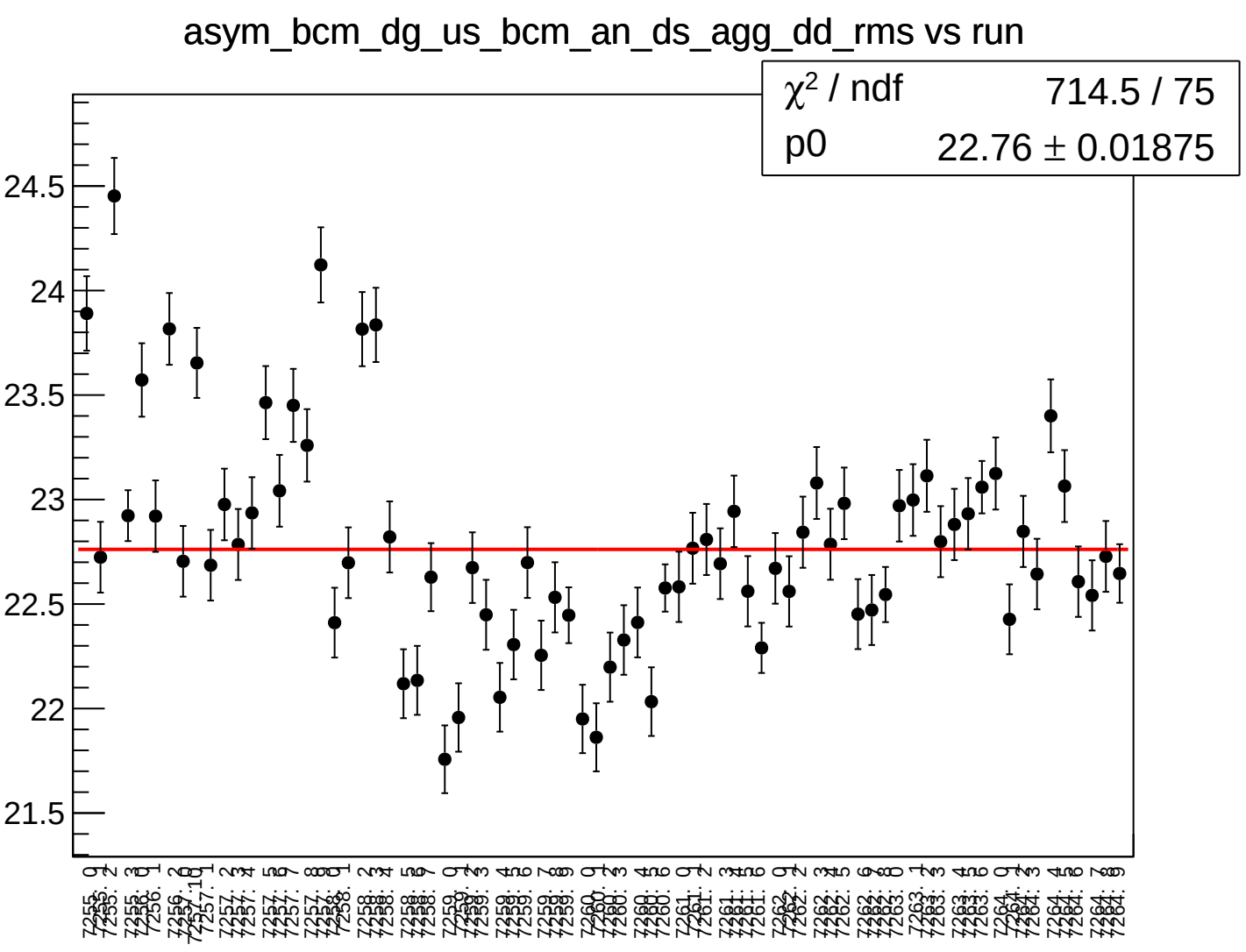

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.12 / 75
p0 −21.03 ± 273.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 116.3
Std Dev 85.48
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

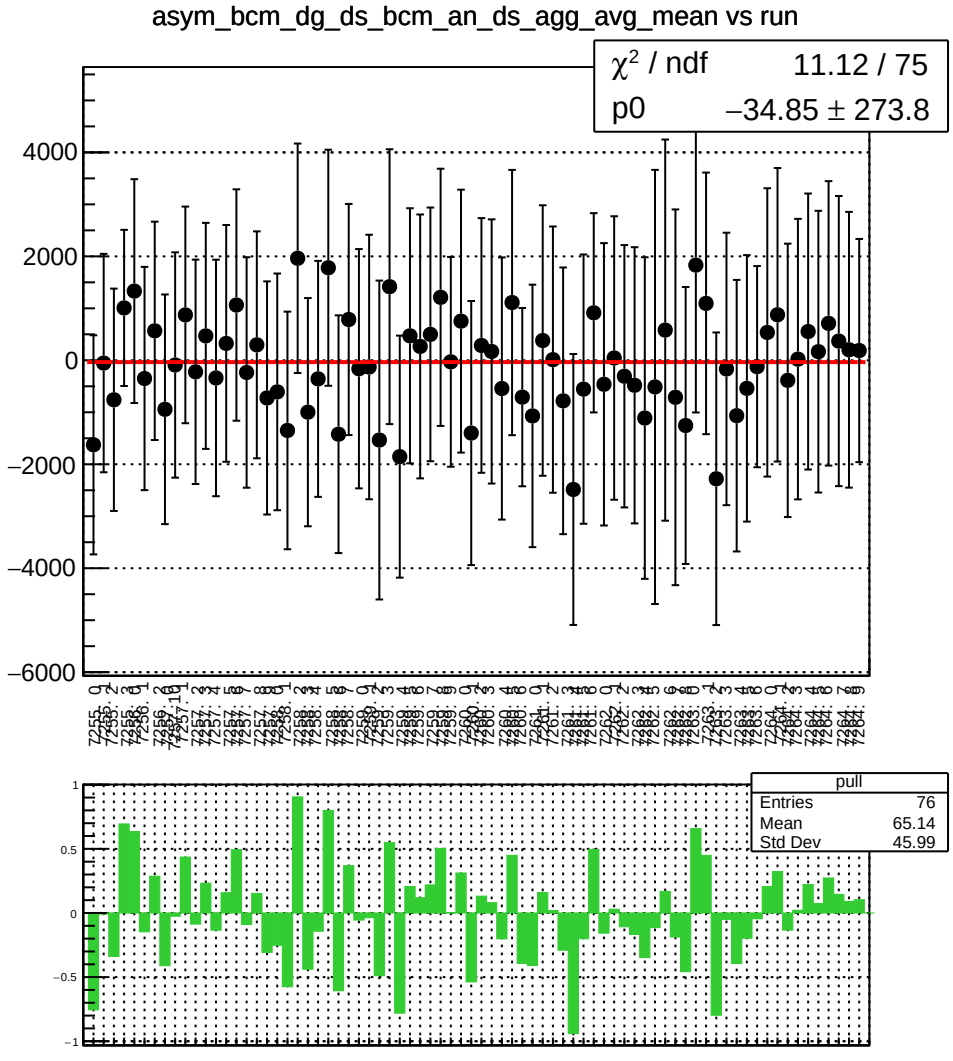

pull1D
Entries 76
Mean −0.0103
Std Dev 0.3824
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

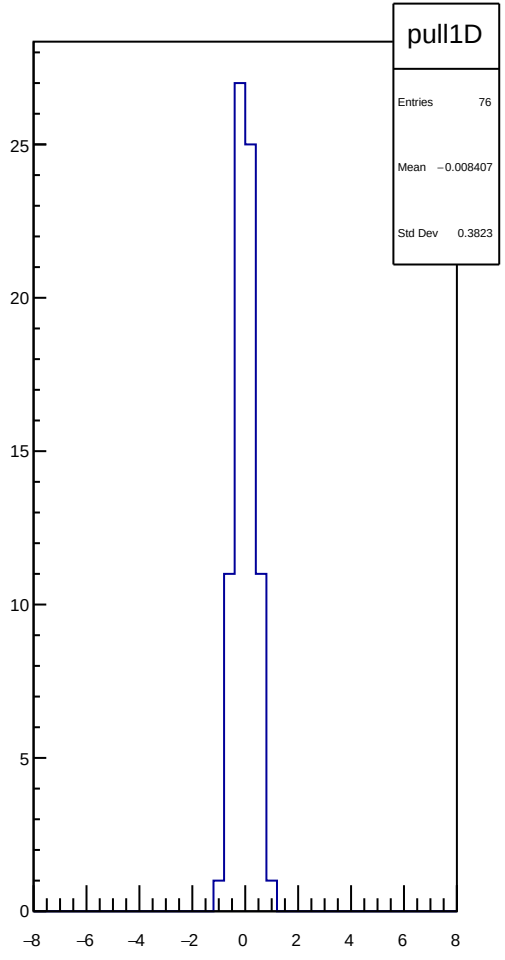

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.115e+04 / 75
p0 232.7 ± 0.1931
400
350
300
250
200

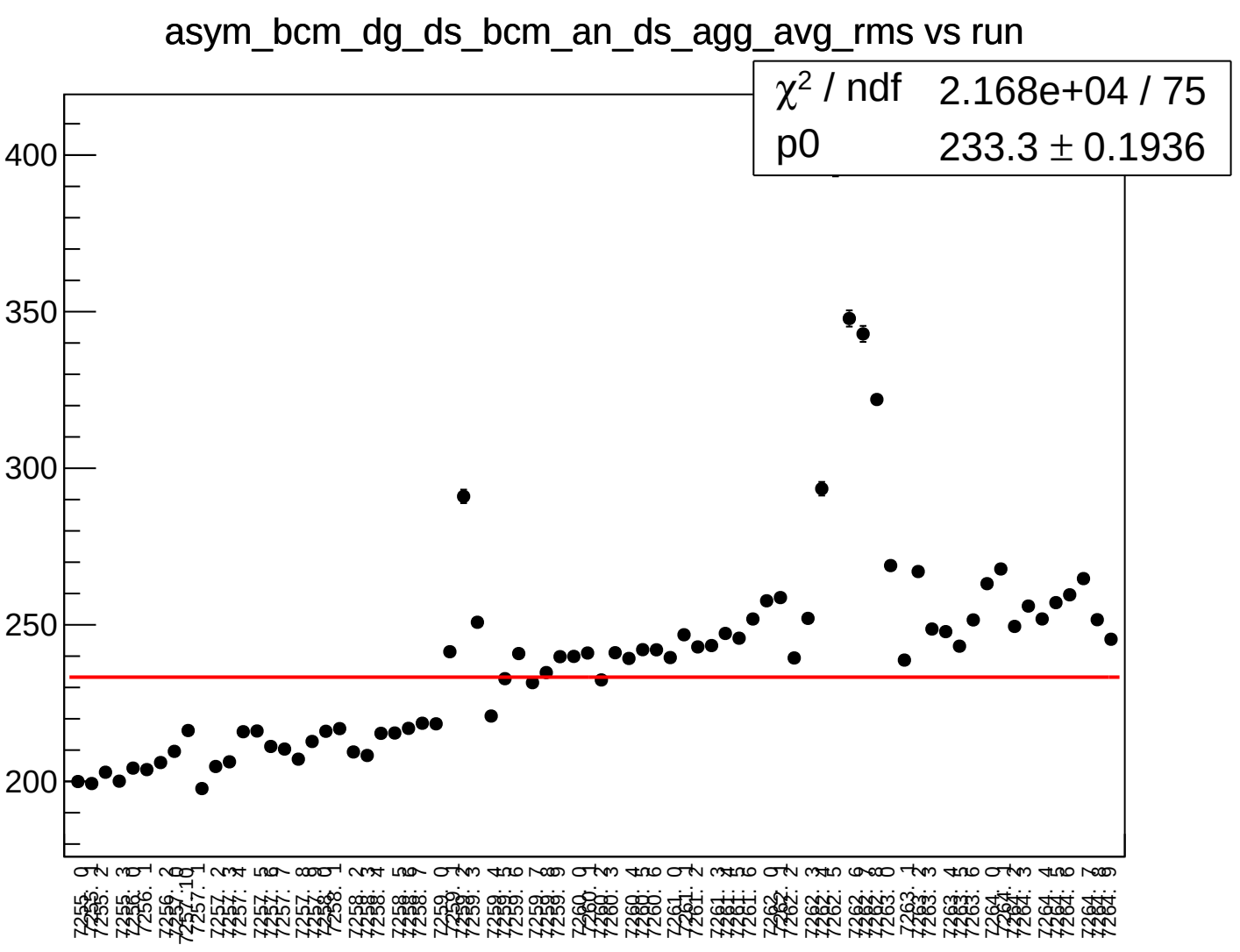

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 77.39 / 75
p0 −8.733 ± 26.52
pull
Entries 76
Mean 4059
Std Dev 4027

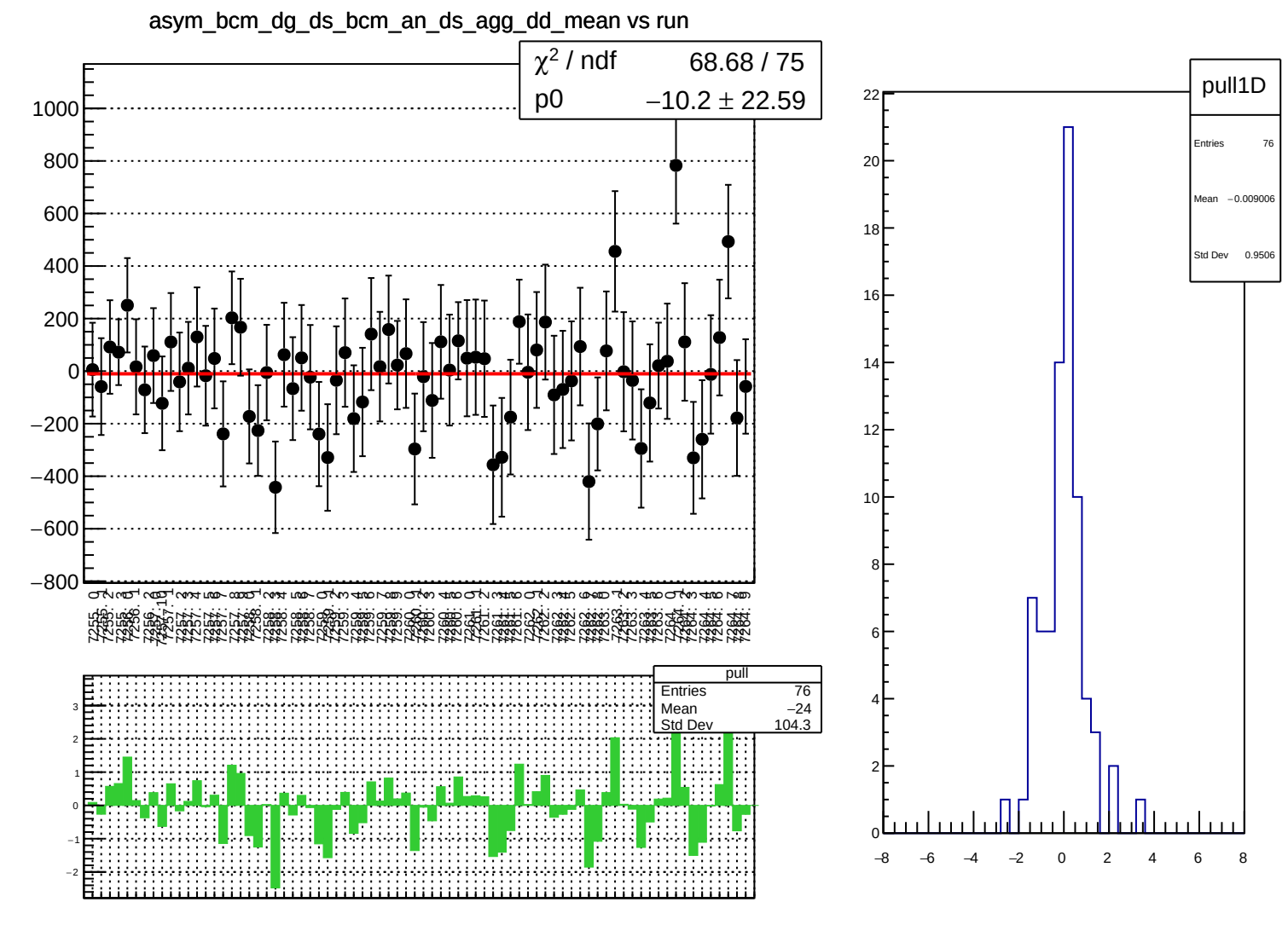

pull1D
Entries 76
Mean −0.001282
Std Dev 1.009

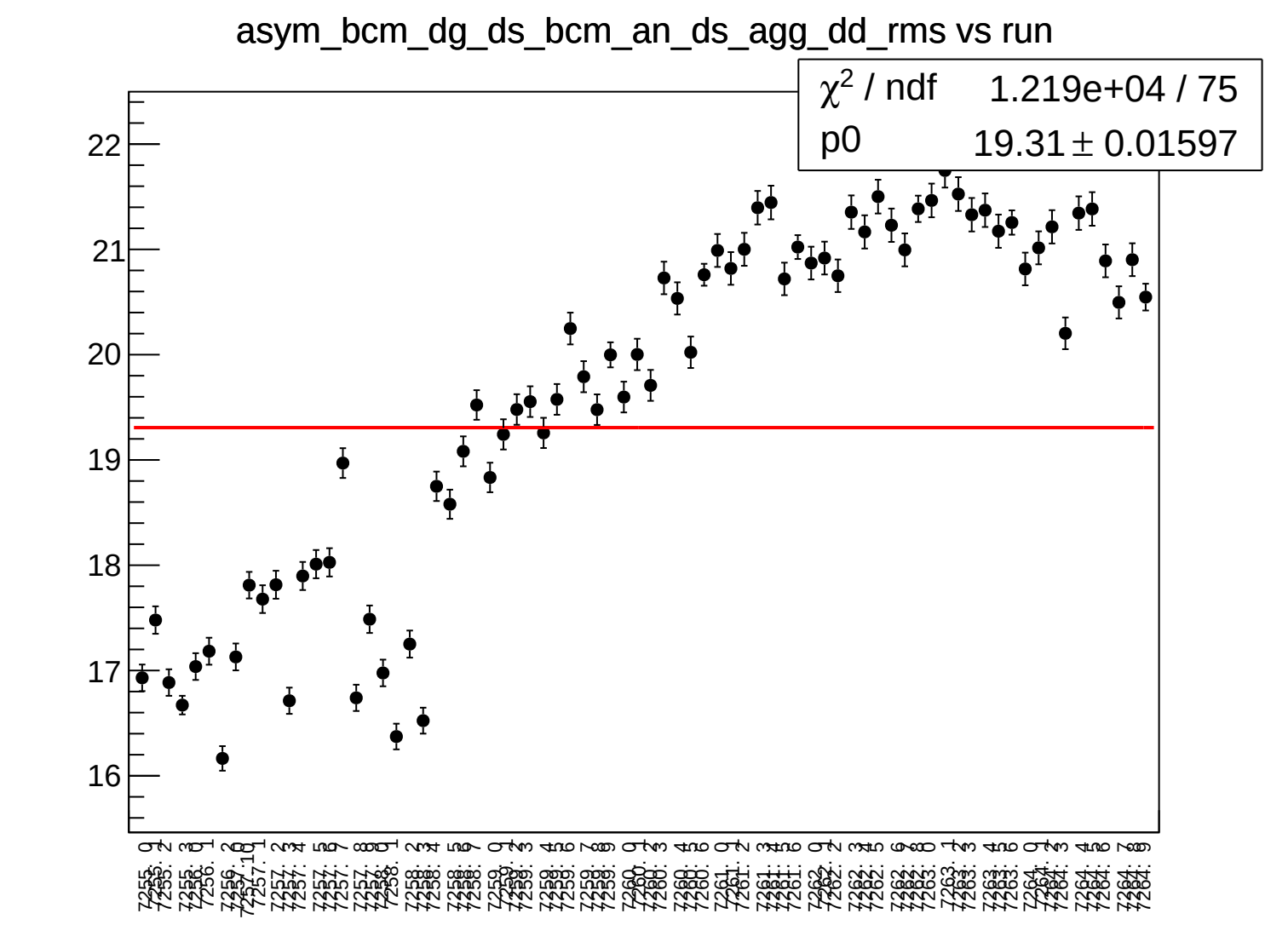

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 714.5 / 75
p0 22.76 ± 0.01875
24.5
24
23.5
23
22.5
22
21.5

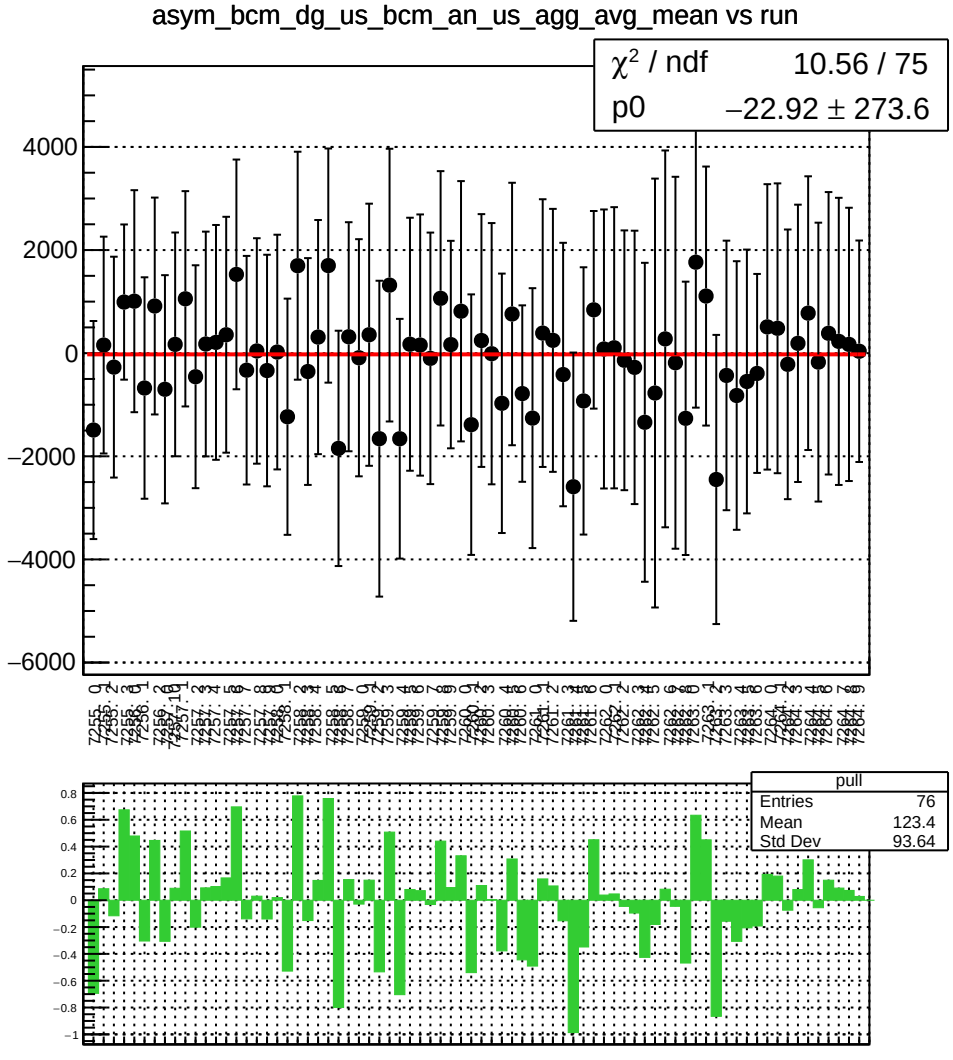

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 11.12 / 75
p0 −34.85 ± 273.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 65.14
Std Dev 45.99
1
0.5
0
−0.5
−1

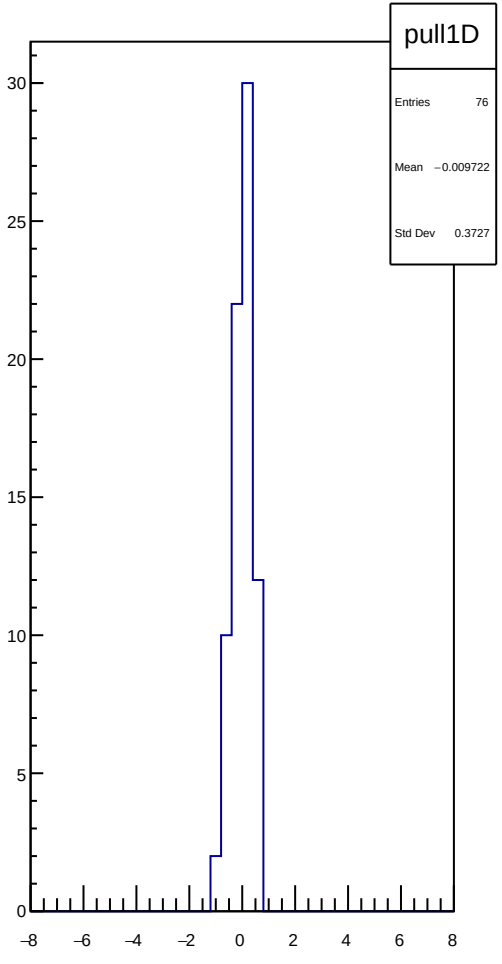

pull1D
Entries 76
Mean −0.008407
Std Dev 0.3823
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

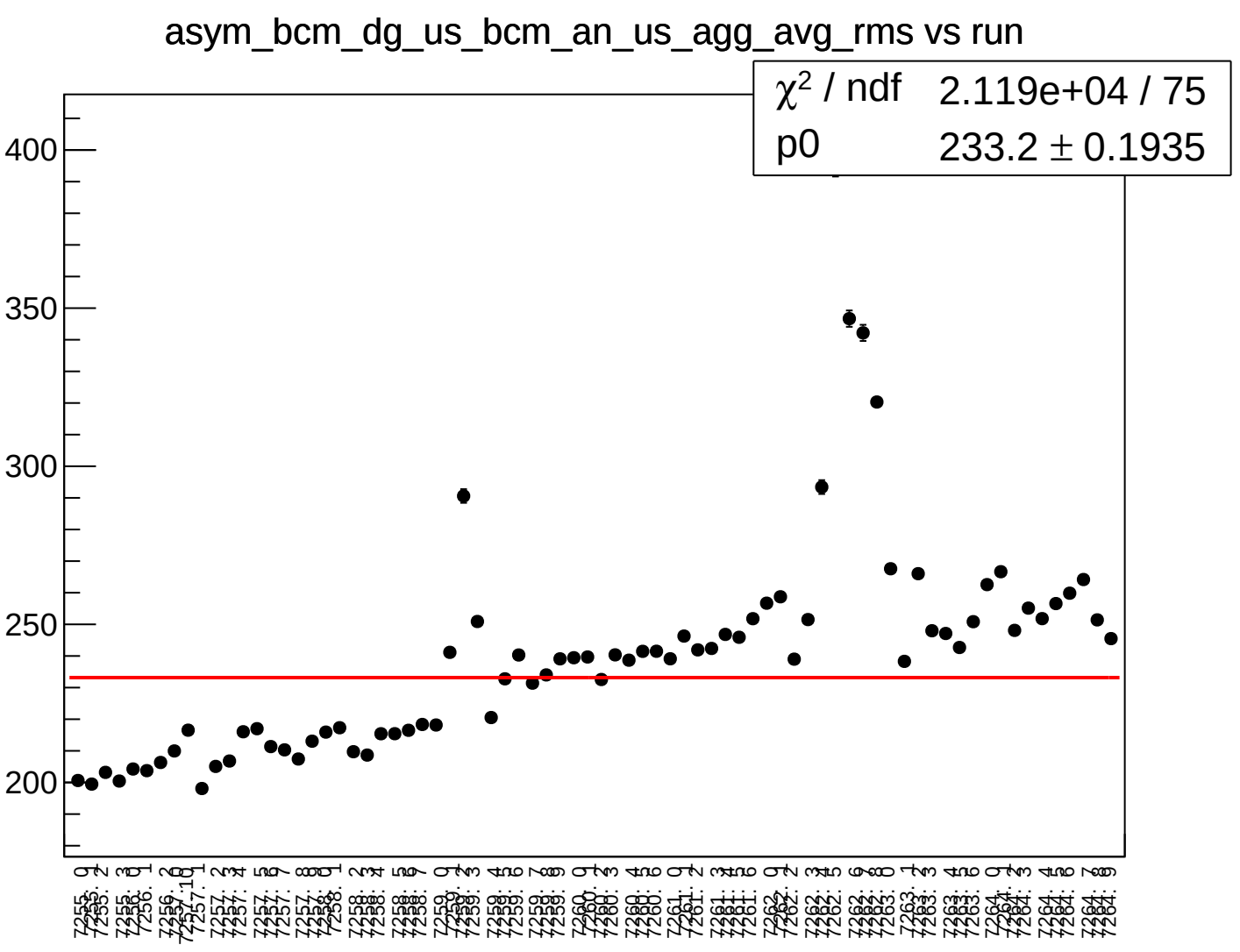

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2.168e+04 / 75
p0 233.3 ± 0.1936
400
350
300
250
200

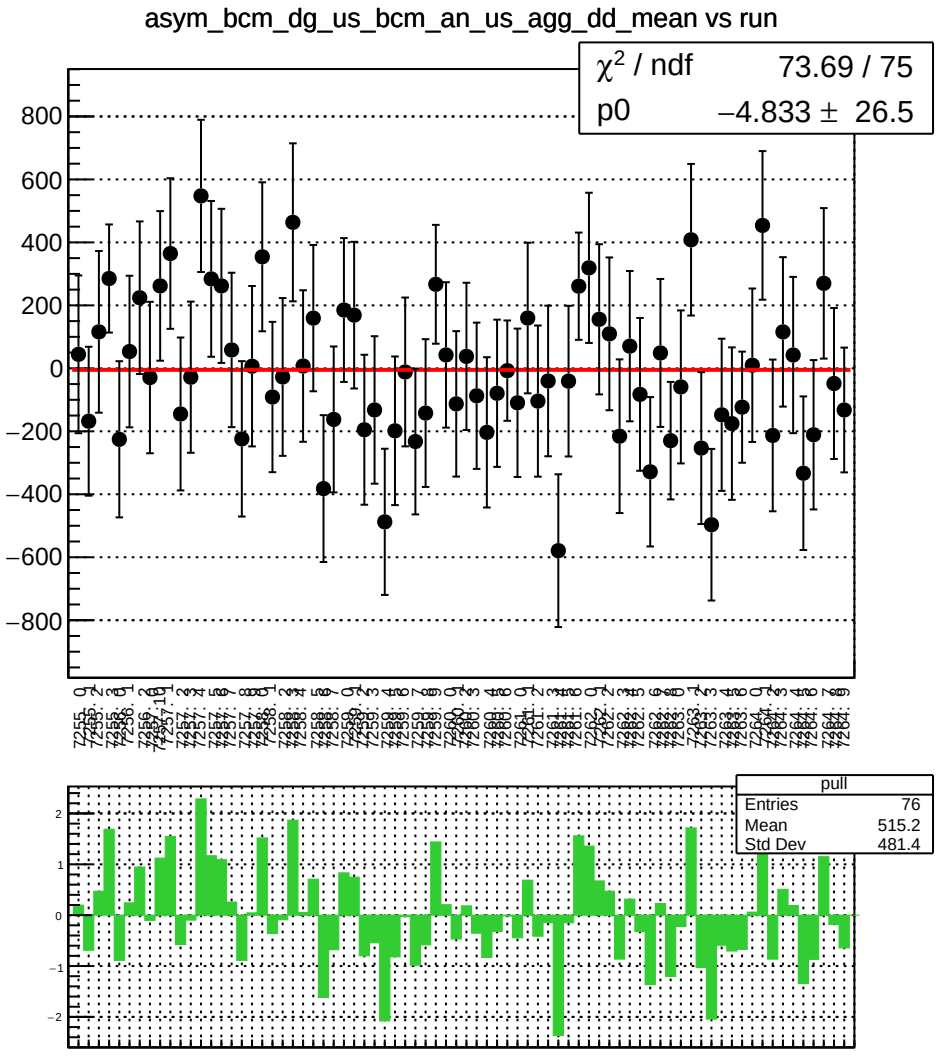

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.68 / 75
p0 −10.2 ± 22.59
pull
Entries 76
Mean −24
Std Dev 104.3
pull1D
Entries 76
Mean −0.009006
Std Dev 0.9506

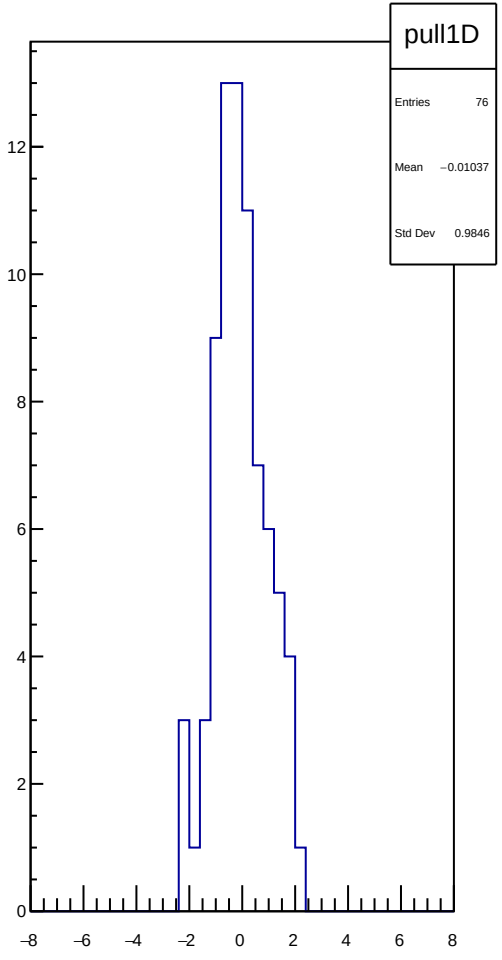

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.219e+04 / 75
p0 19.31 ± 0.01597
22
21
20
19
18
17
16

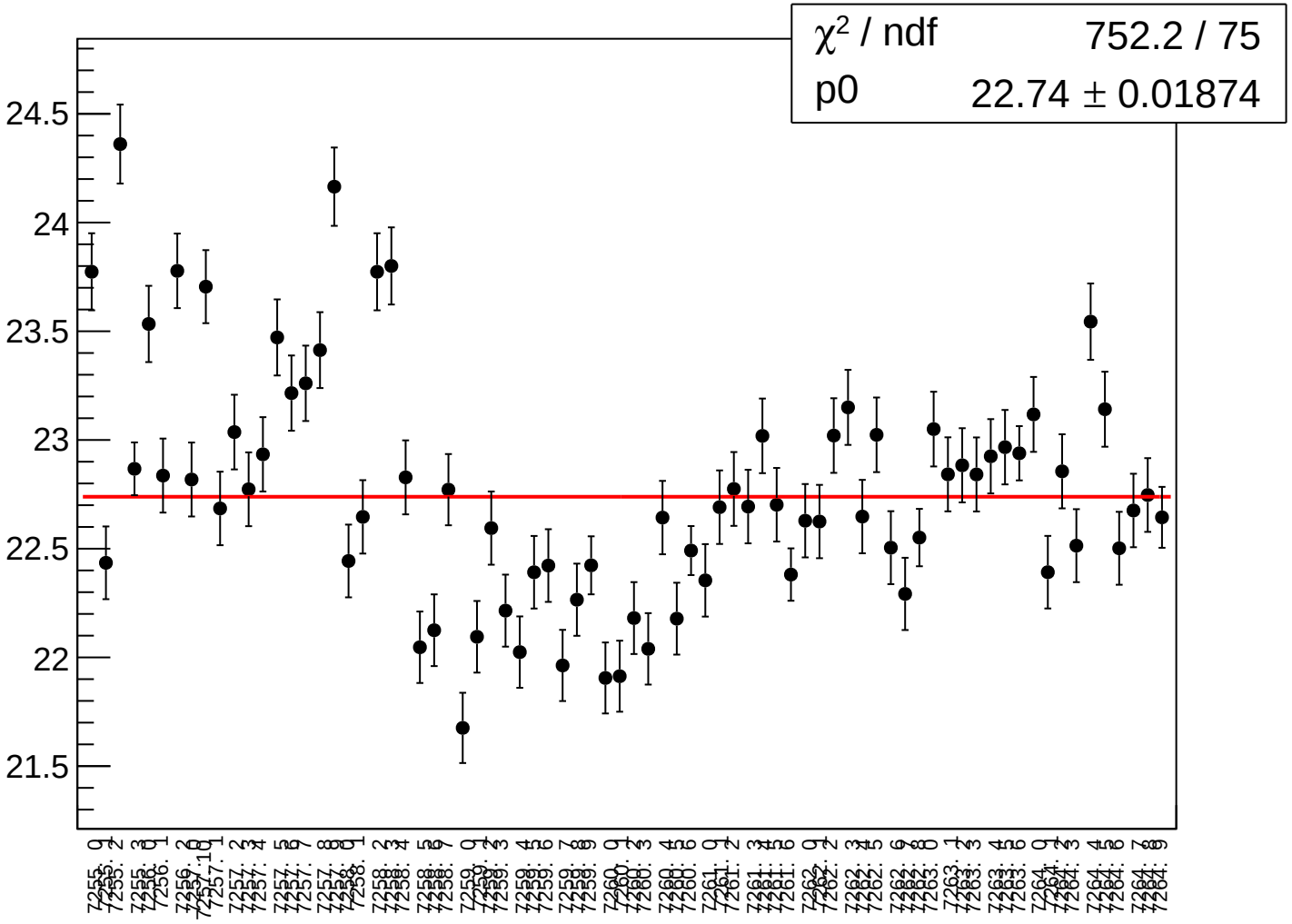

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.56 / 75
p0 −22.92 ± 273.6
pull
Entries 76
Mean 123.4
Std Dev 93.64

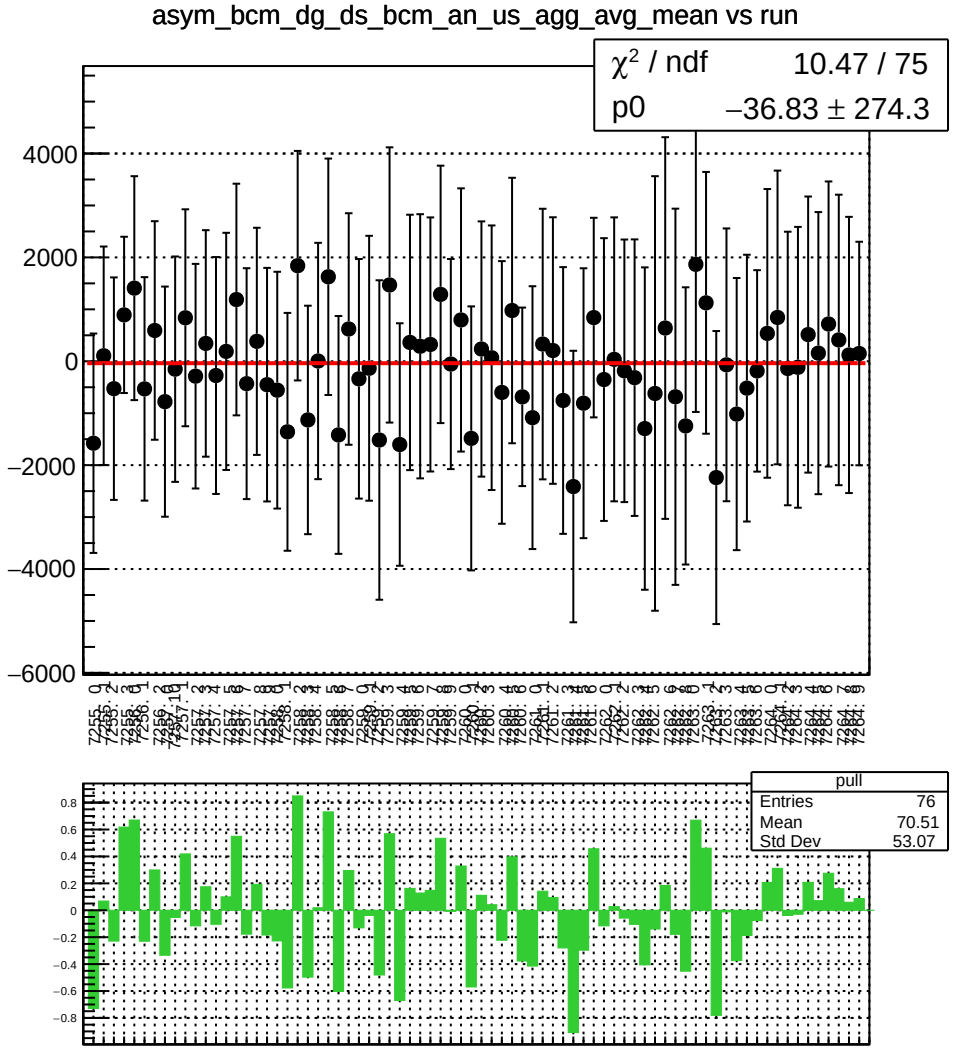

pull1D
Entries 76
Mean −0.009722
Std Dev 0.3727

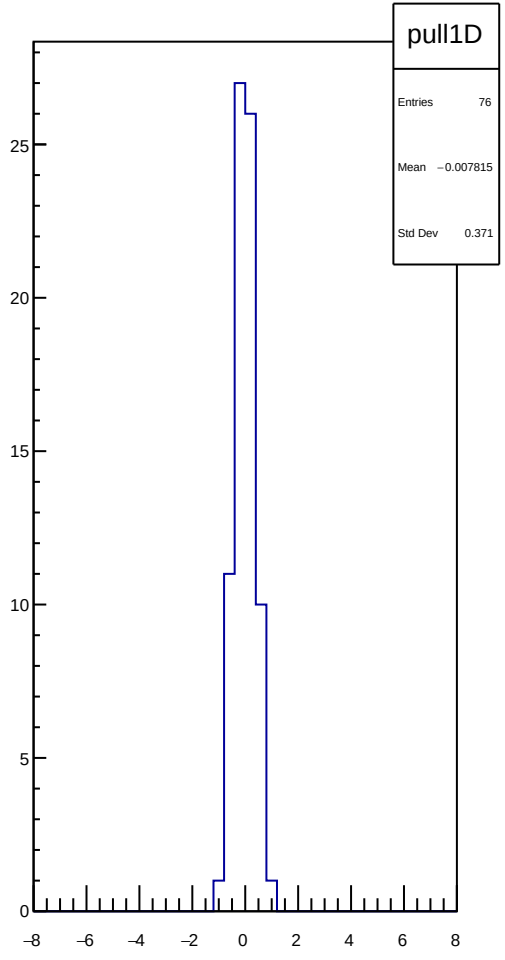

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.119e+04 / 75
p0 233.2 ± 0.1935
400
350
300
250
200

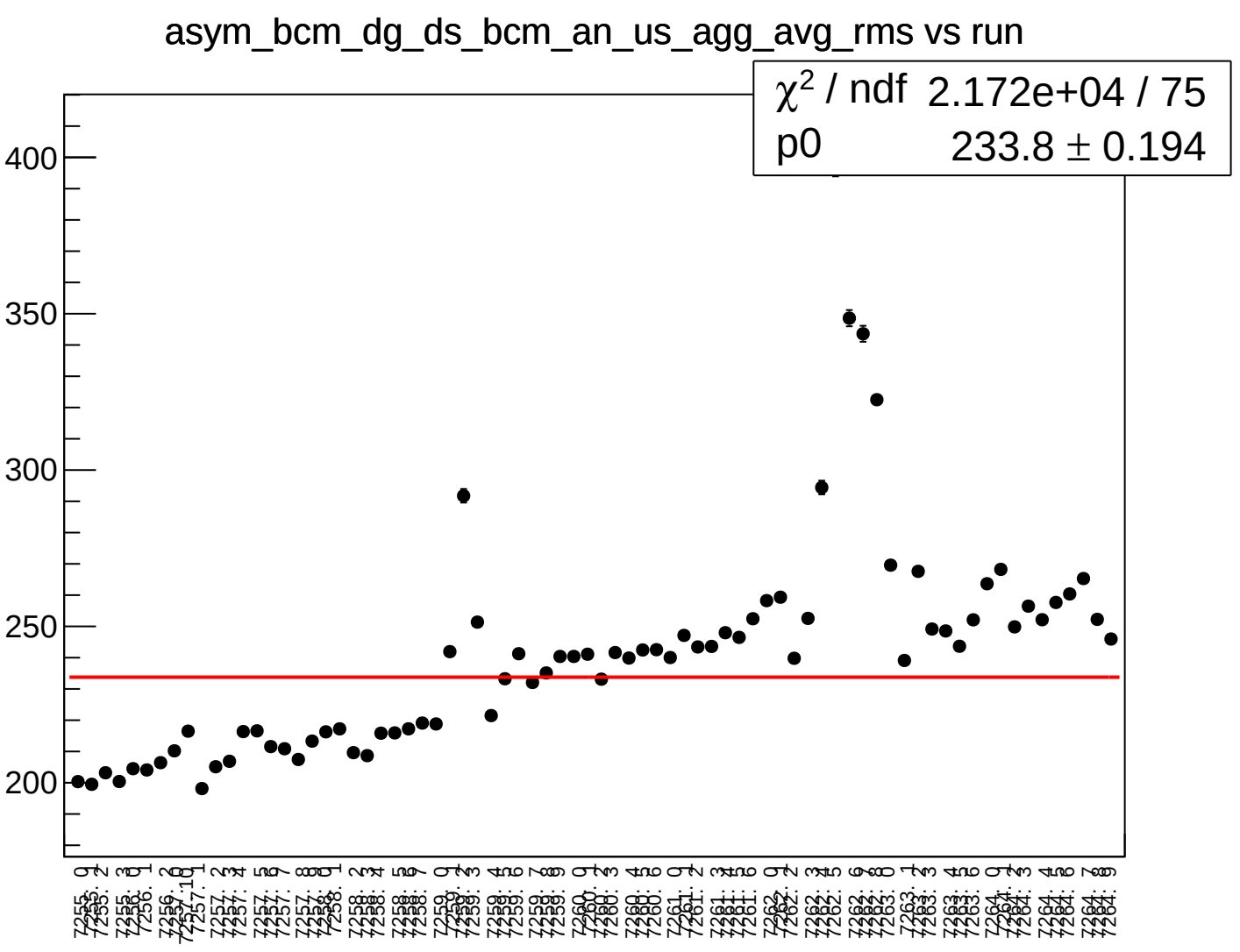

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.69 / 75
p0 −4.833 ± 26.5
pull
Entries 76
Mean 515.2
Std Dev 481.4

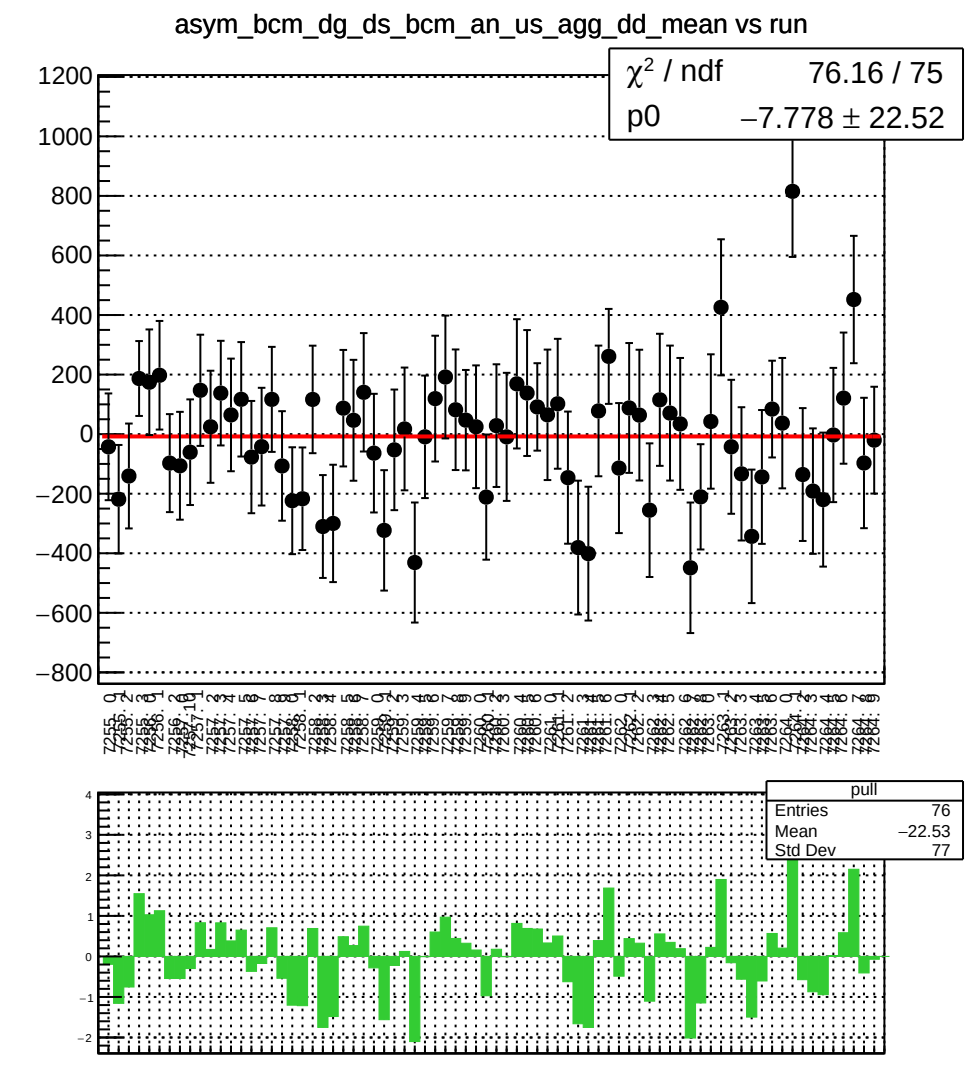

pull1D
Entries 76
Mean −0.01037
Std Dev 0.9846

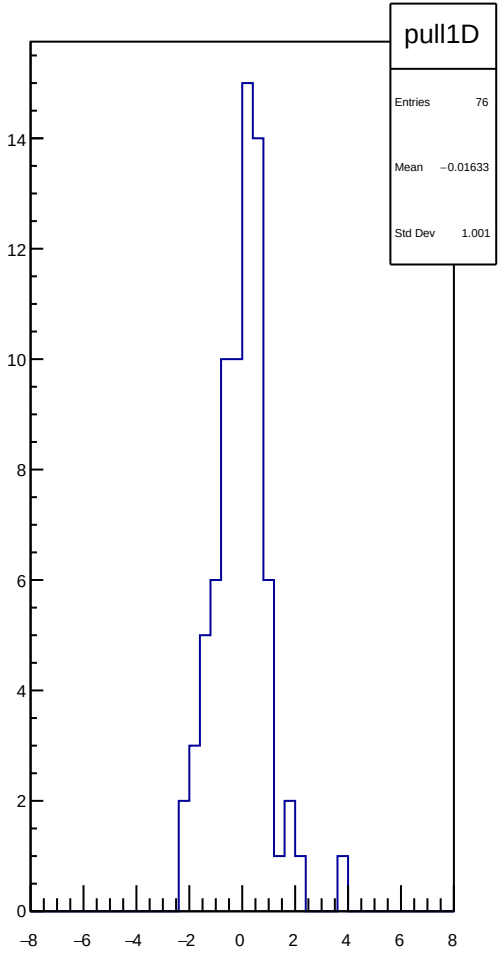

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 752.2 / 75
p0 22.74 ± 0.01874
24.5
24
23.5
23
22.5
22
21.5

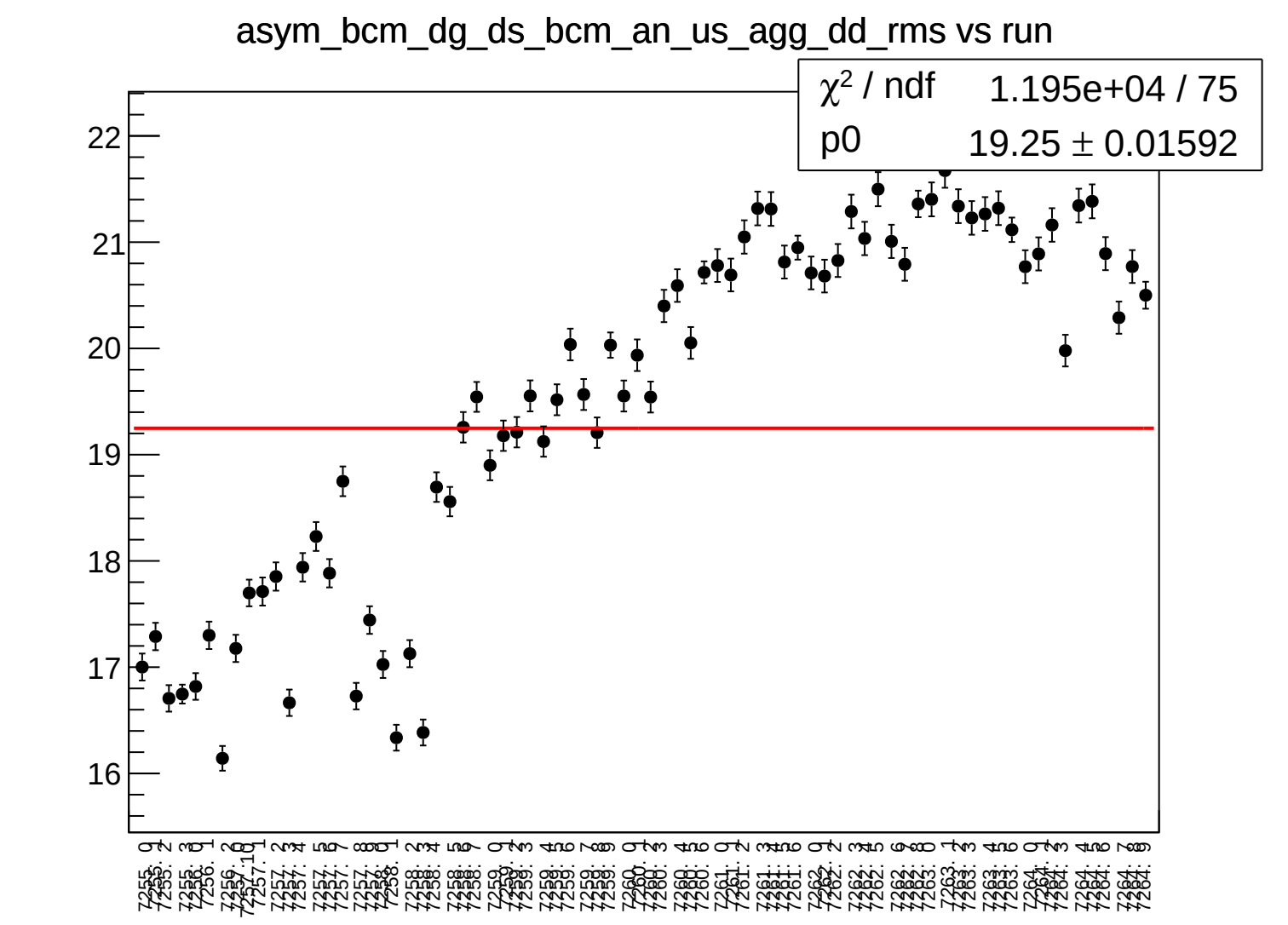

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.47 / 75
p0 −36.83 ± 274.3
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 70.51
Std Dev 53.07
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

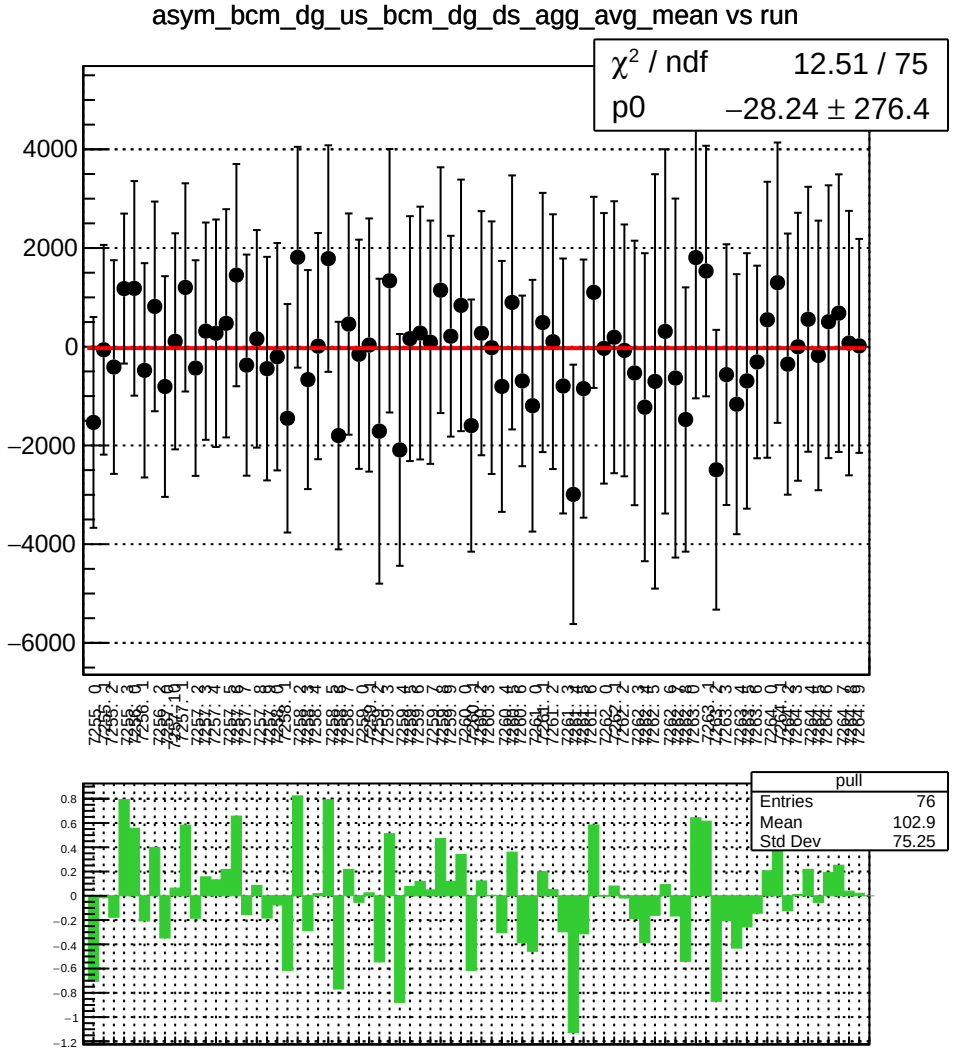

pull1D
Entries 76
Mean −0.007815
Std Dev 0.371
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

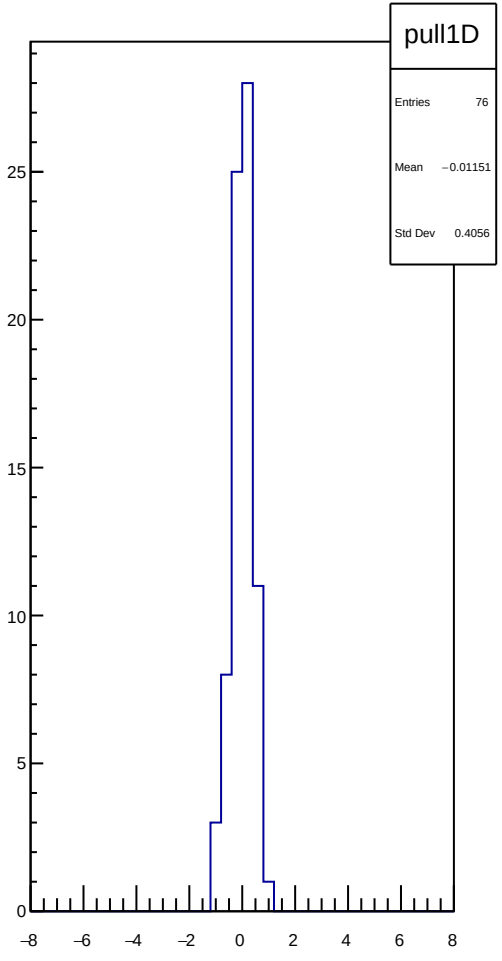

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2.172e+04 / 75
p0 233.8 ± 0.194
400
350
300
250
200

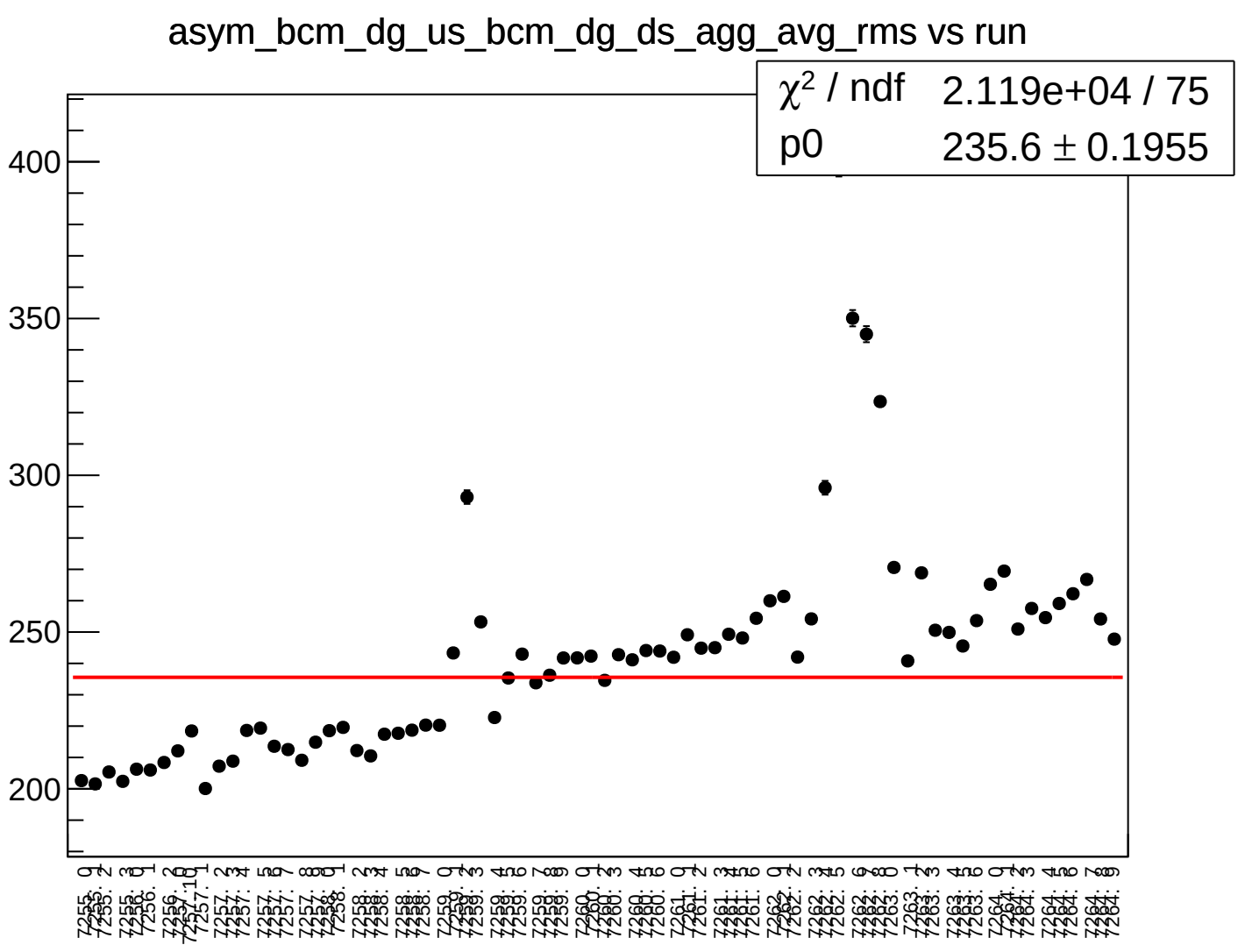

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 76.16 / 75
p0 −7.778 ± 22.52
pull
Entries 76
Mean −22.53
Std Dev 77

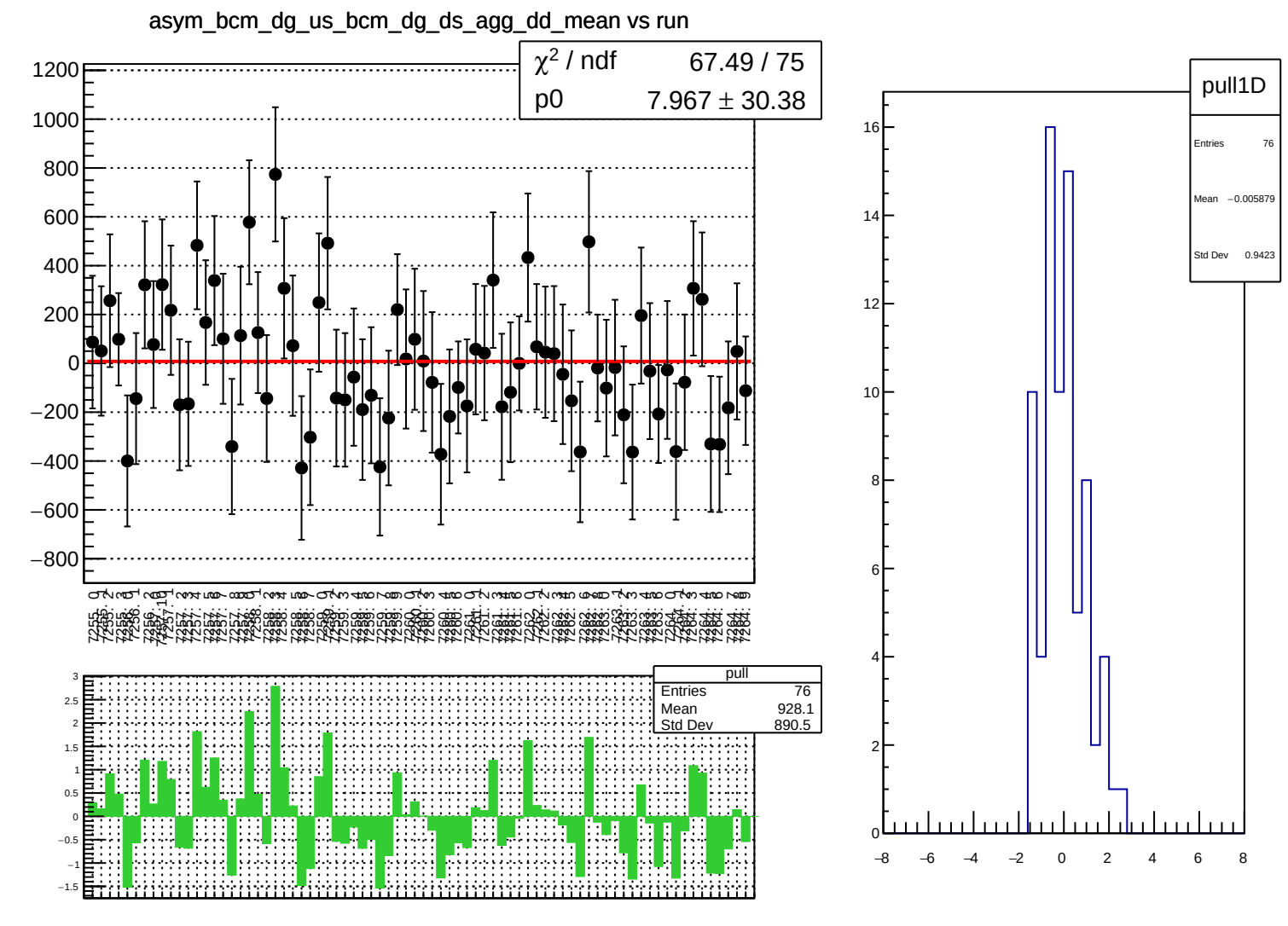

pull1D
Entries 76
Mean −0.01633
Std Dev 1.001

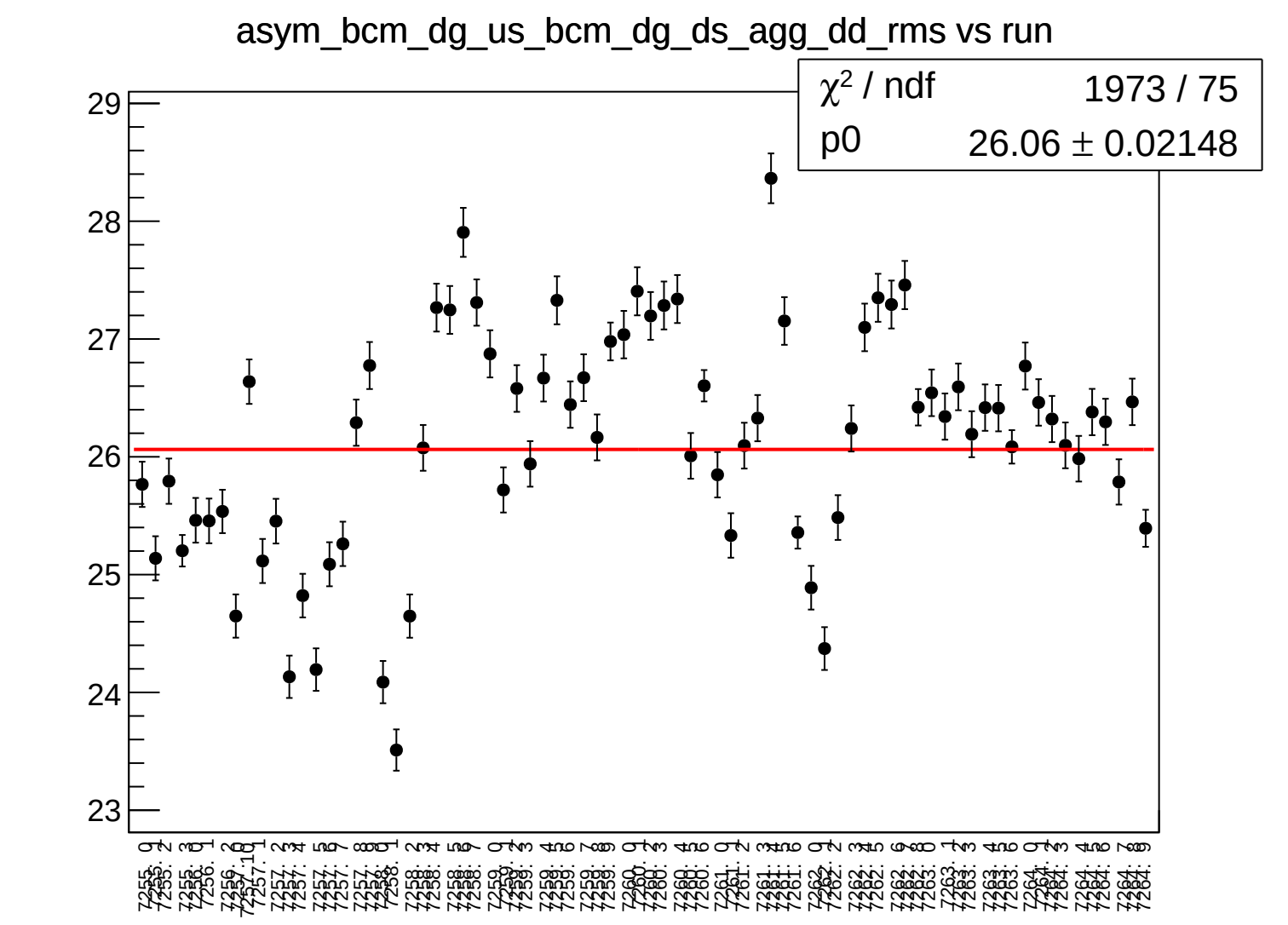

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1.195e+04 / 75
p0 19.25 ± 0.01592
22
21
20
19
18
17
16

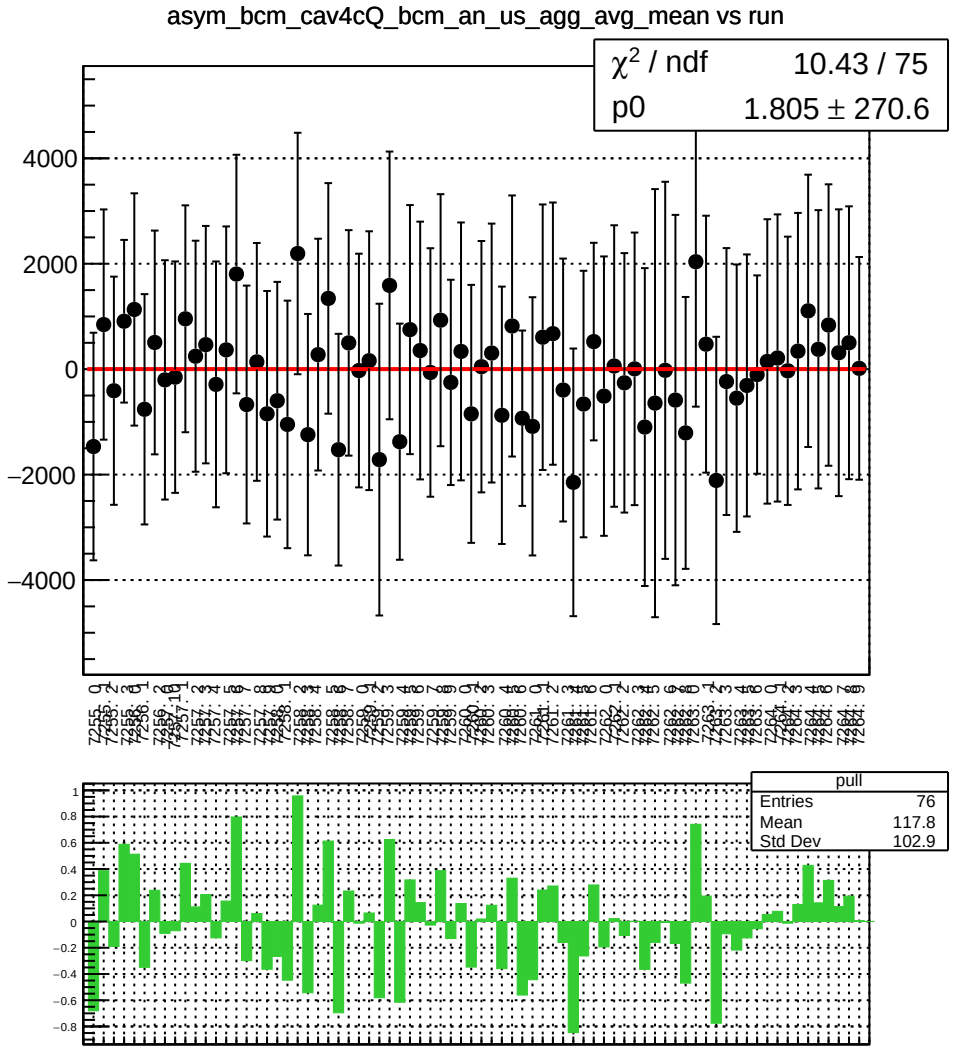

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.51 / 75
p0 −28.24 ± 276.4
pull
Entries 76
Mean 102.9
Std Dev 75.25

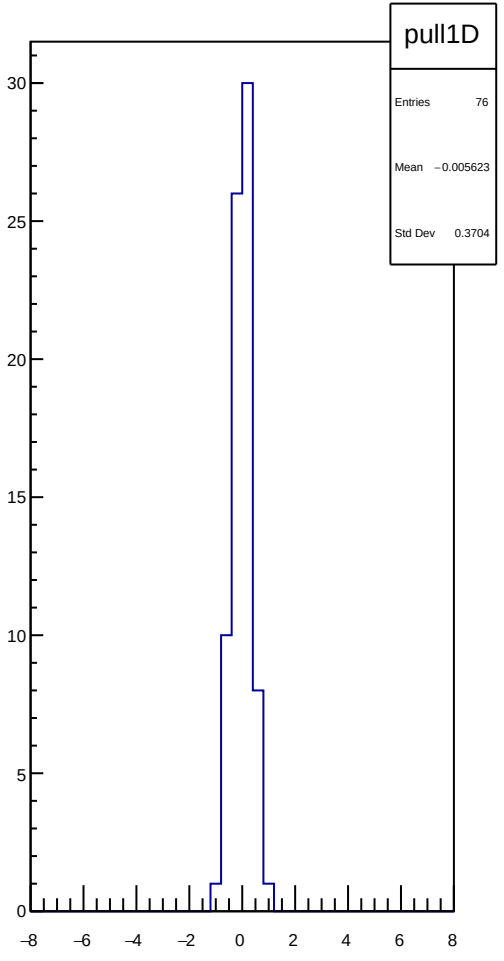

pull1D
Entries 76
Mean −0.01151
Std Dev 0.4056

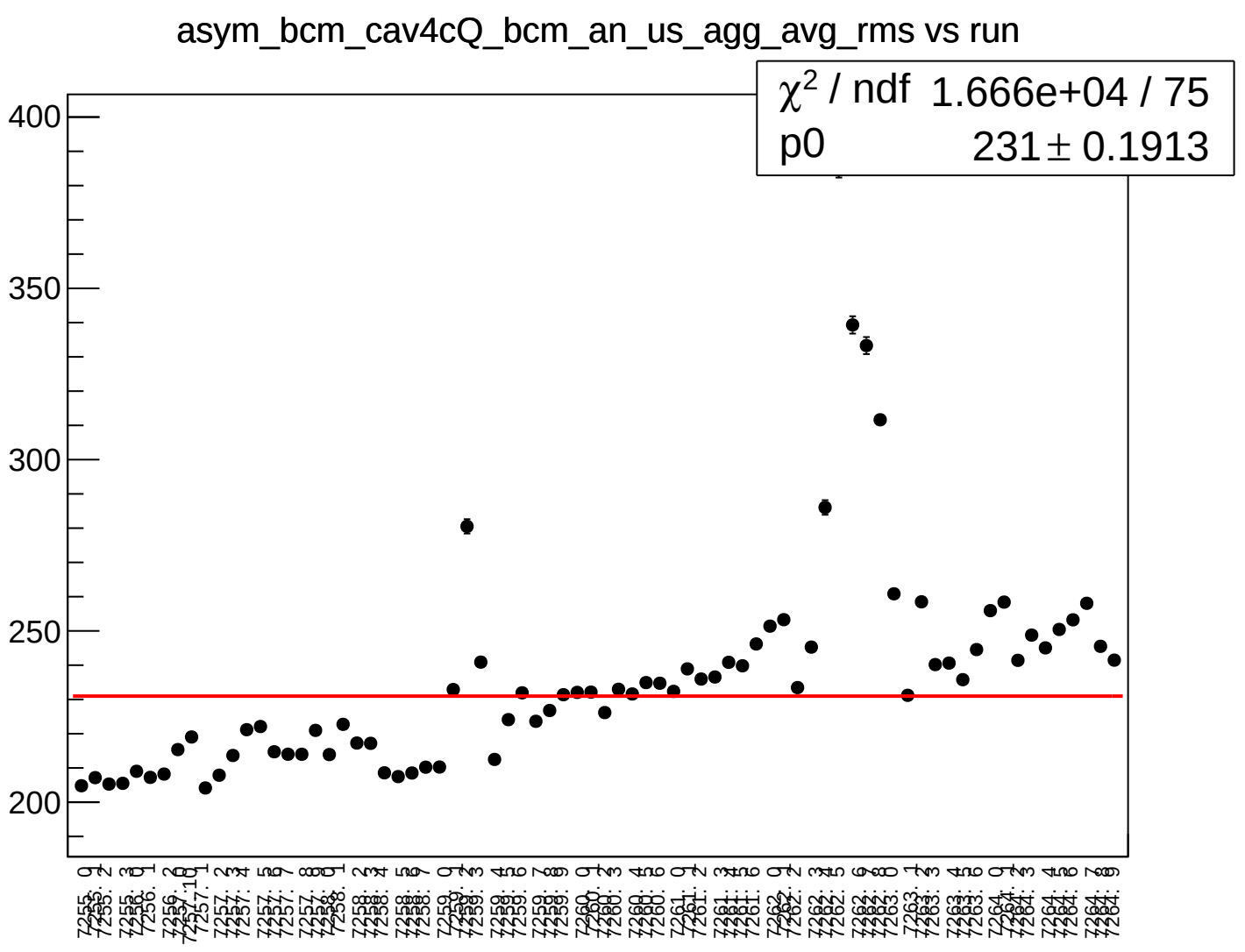

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2.119e+04 / 75
p0 235.6 ± 0.1955
400
350
300
250
200

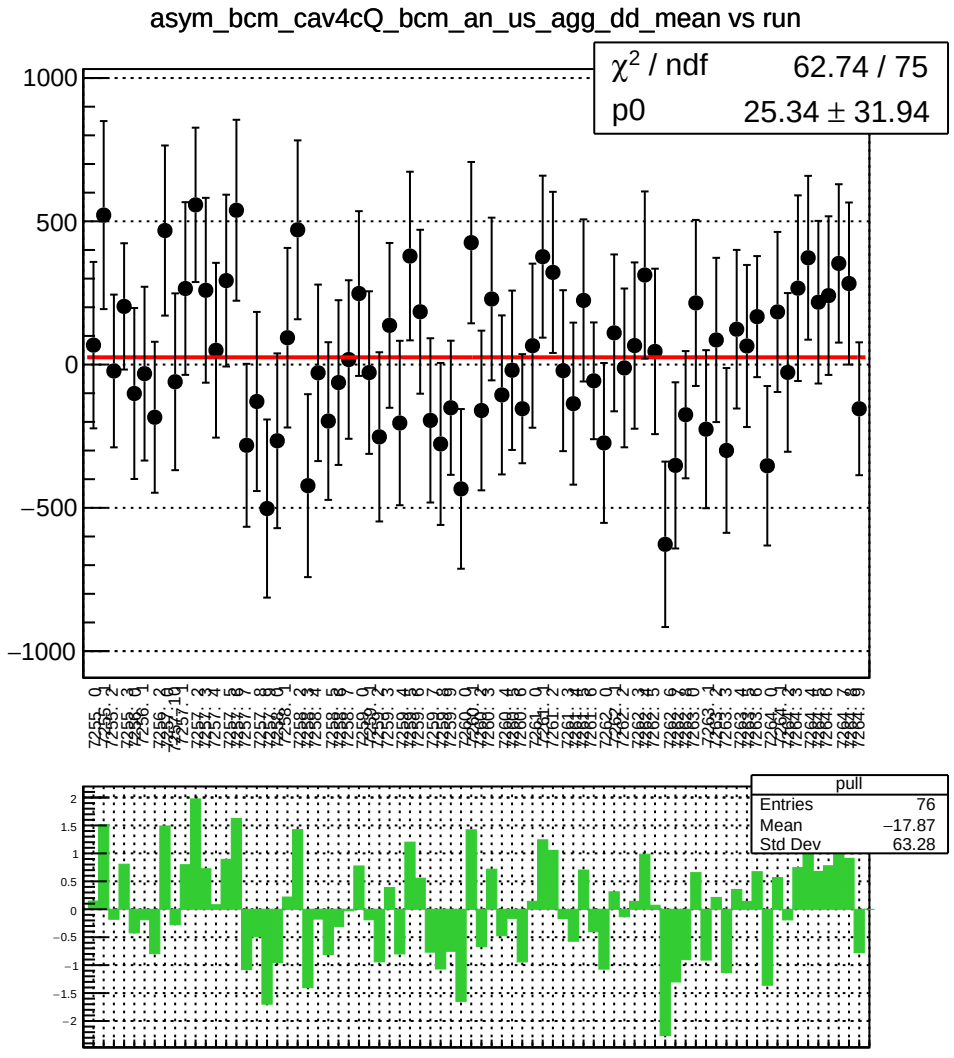

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 67.49 / 75
p0 7.967 ± 30.38
pull
Entries 76
Mean 928.1
Std Dev 890.5
pull1D
Entries 76
Mean −0.005879
Std Dev 0.9423

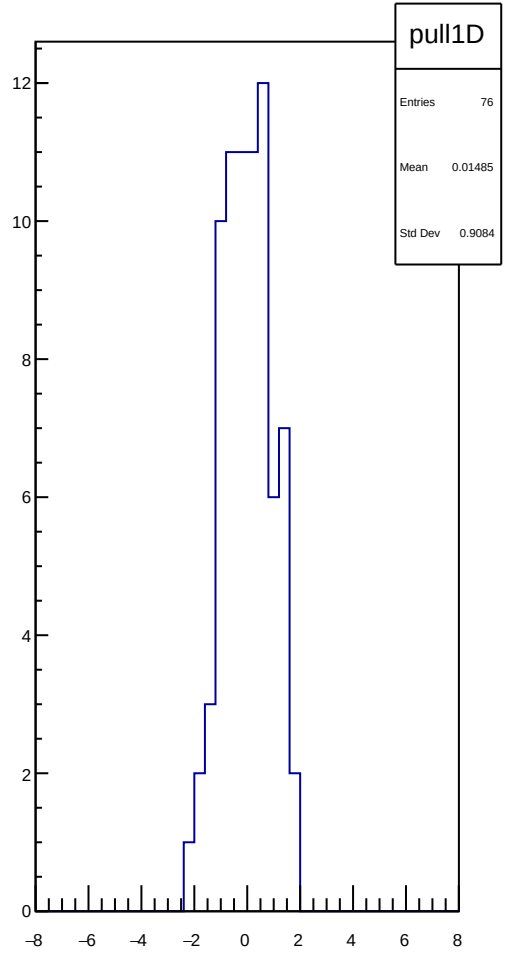

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1973 / 75
p0 26.06 ± 0.02148
29
28
27
26
25
24
23

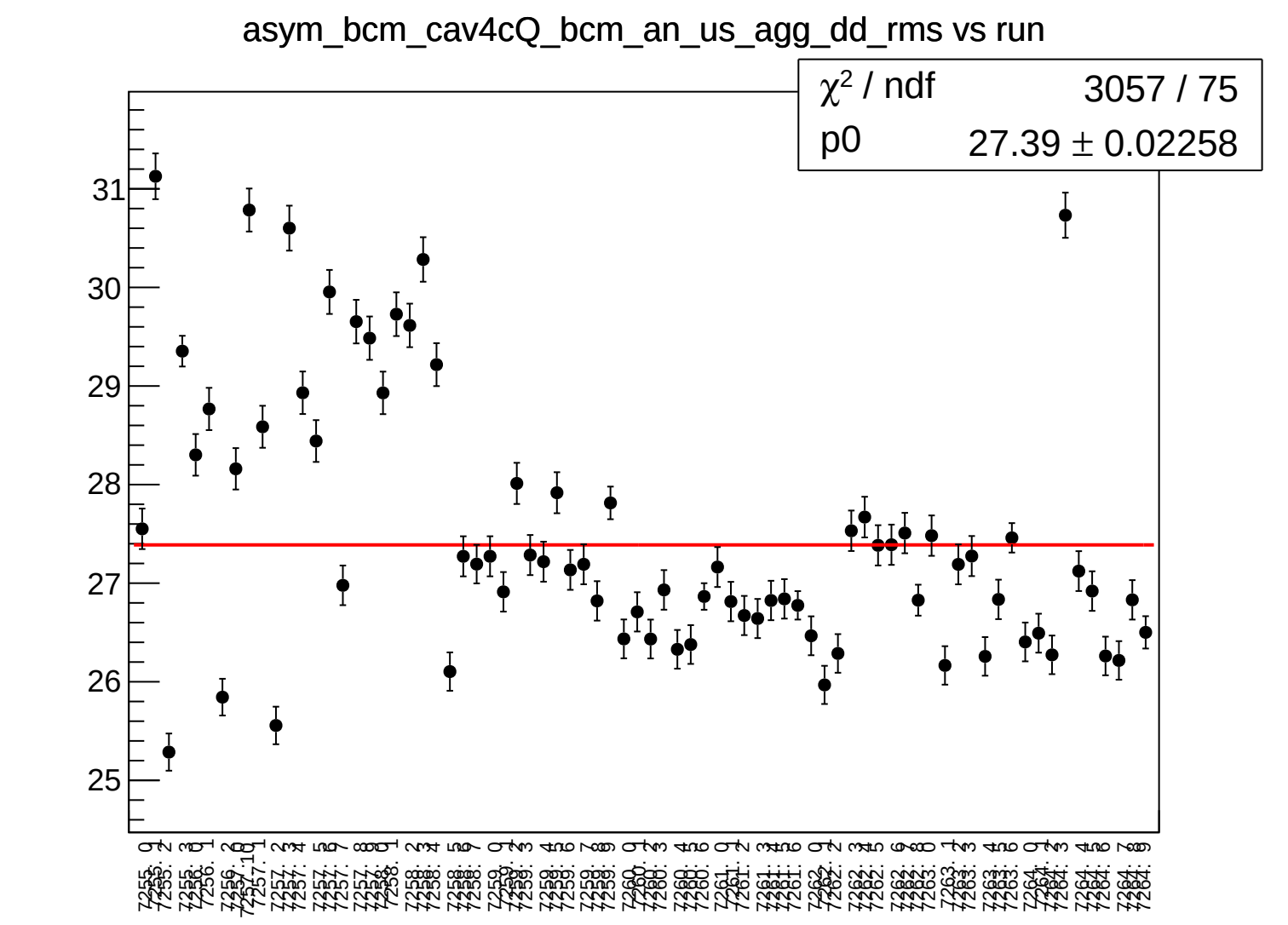

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.43 / 75
p0 1.805 ± 270.6
4000
2000
0
−2000
−4000
pull
Entries 76
Mean 117.8
Std Dev 102.9
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

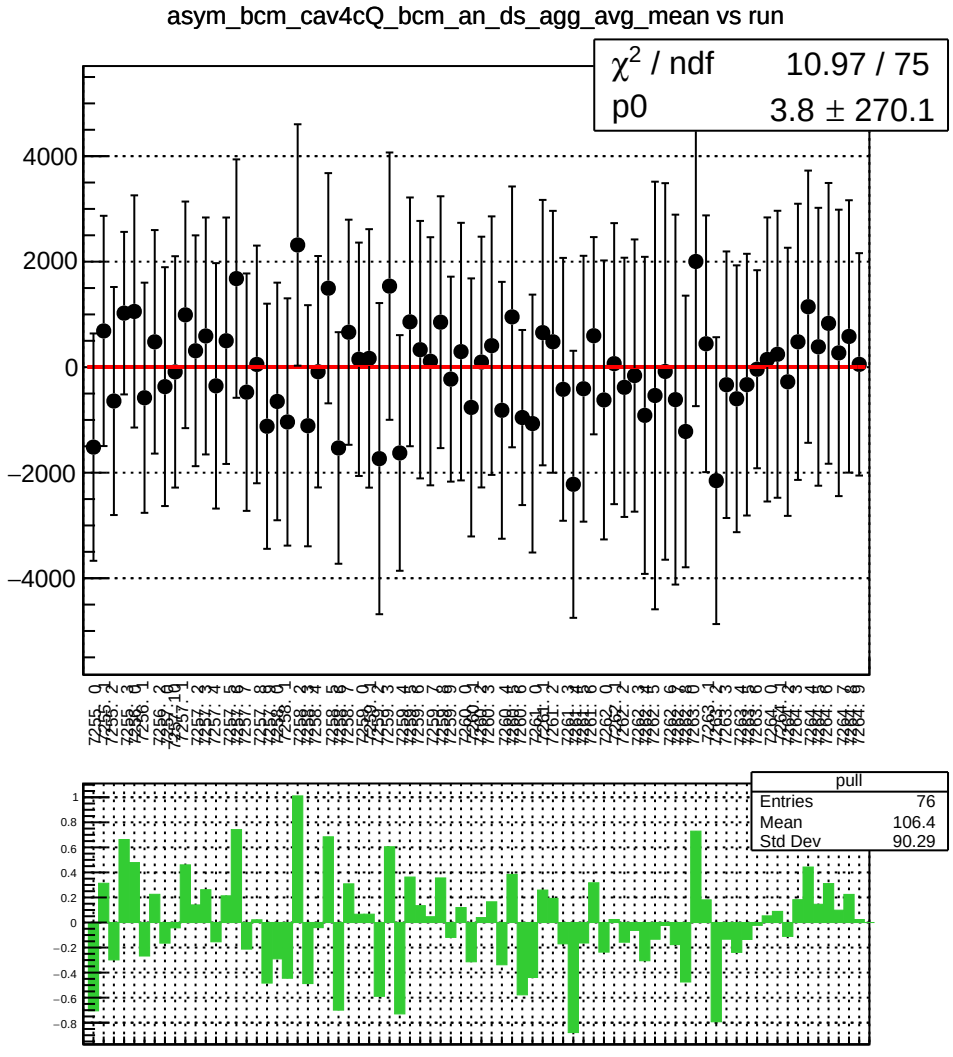

pull1D
Entries 76
Mean −0.005623
Std Dev 0.3704
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

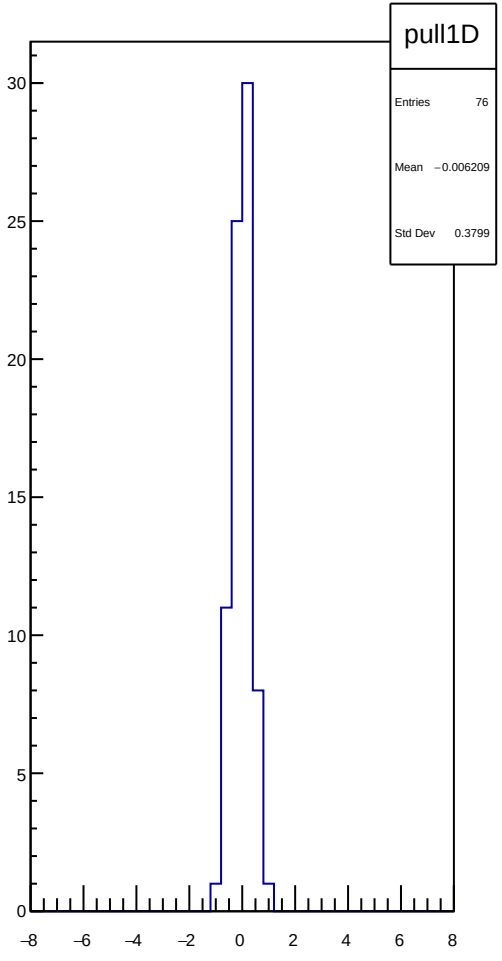

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.666e+04 / 75
p0 231 ± 0.1913
400
350
300
250
200

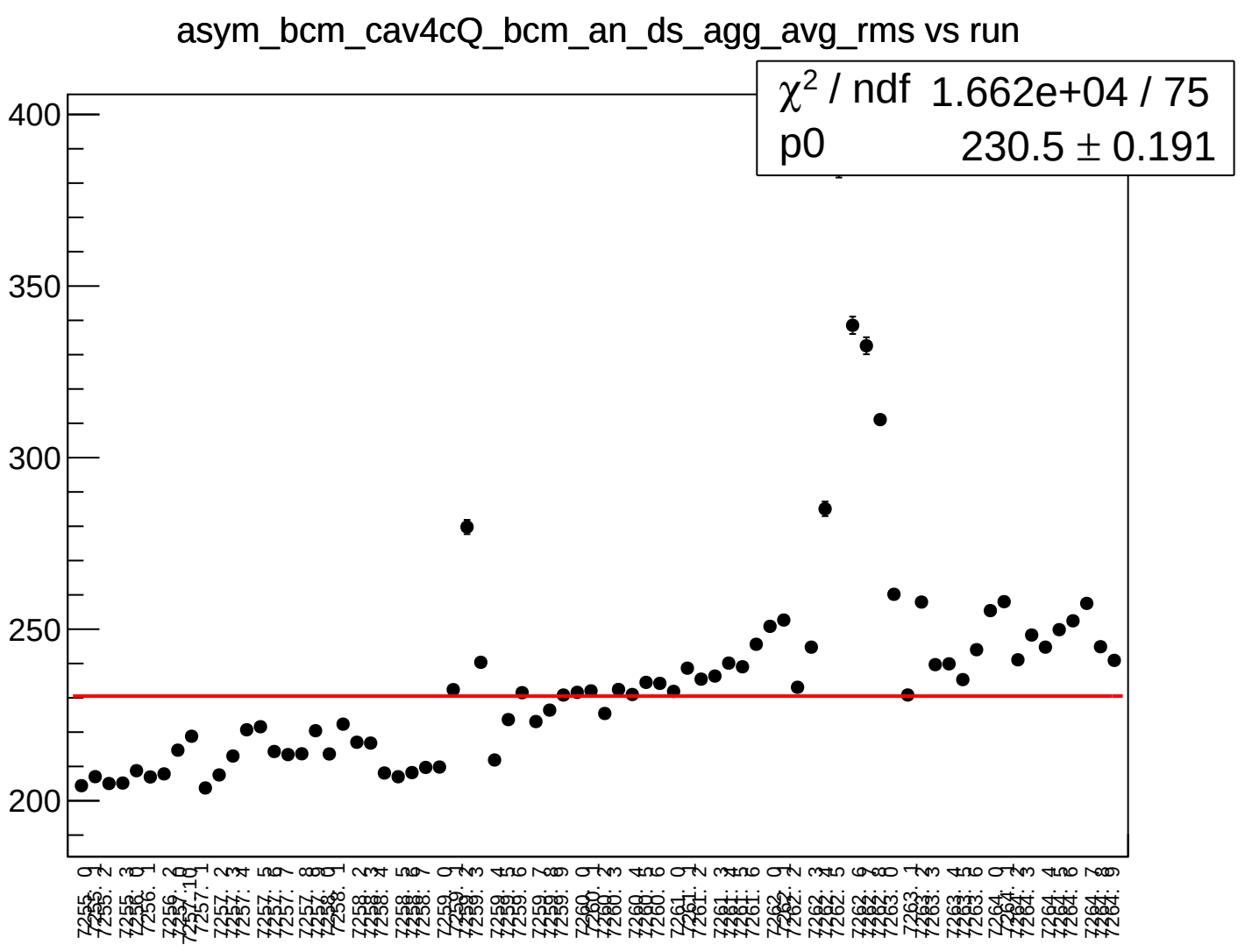

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 62.74 / 75
p0 25.34 ± 31.94
1000
500
0
−500
−1000
pull
Entries 76
Mean −17.87
Std Dev 63.28
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

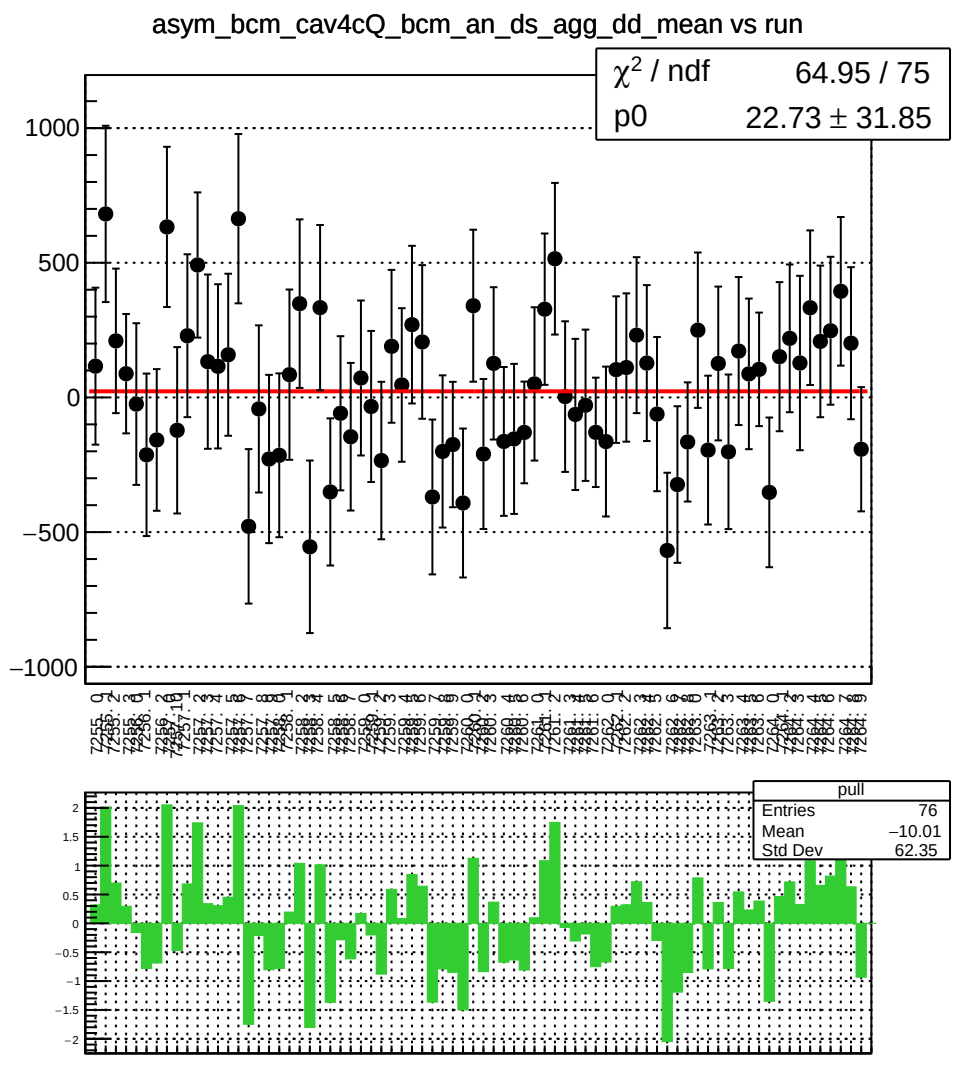

pull1D
Entries 76
Mean 0.01485
Std Dev 0.9084
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

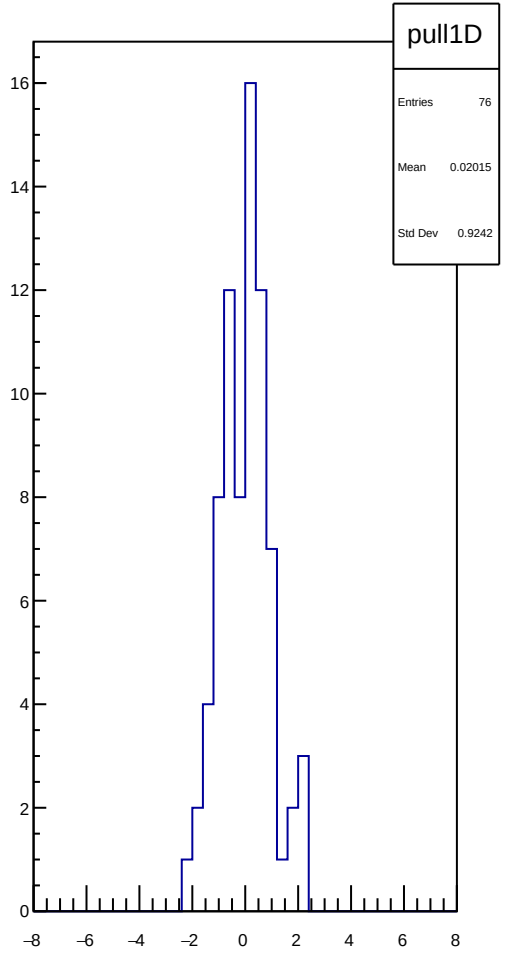

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3057 / 75
p0 27.39 ± 0.02258
31
30
29
28
27
26
25

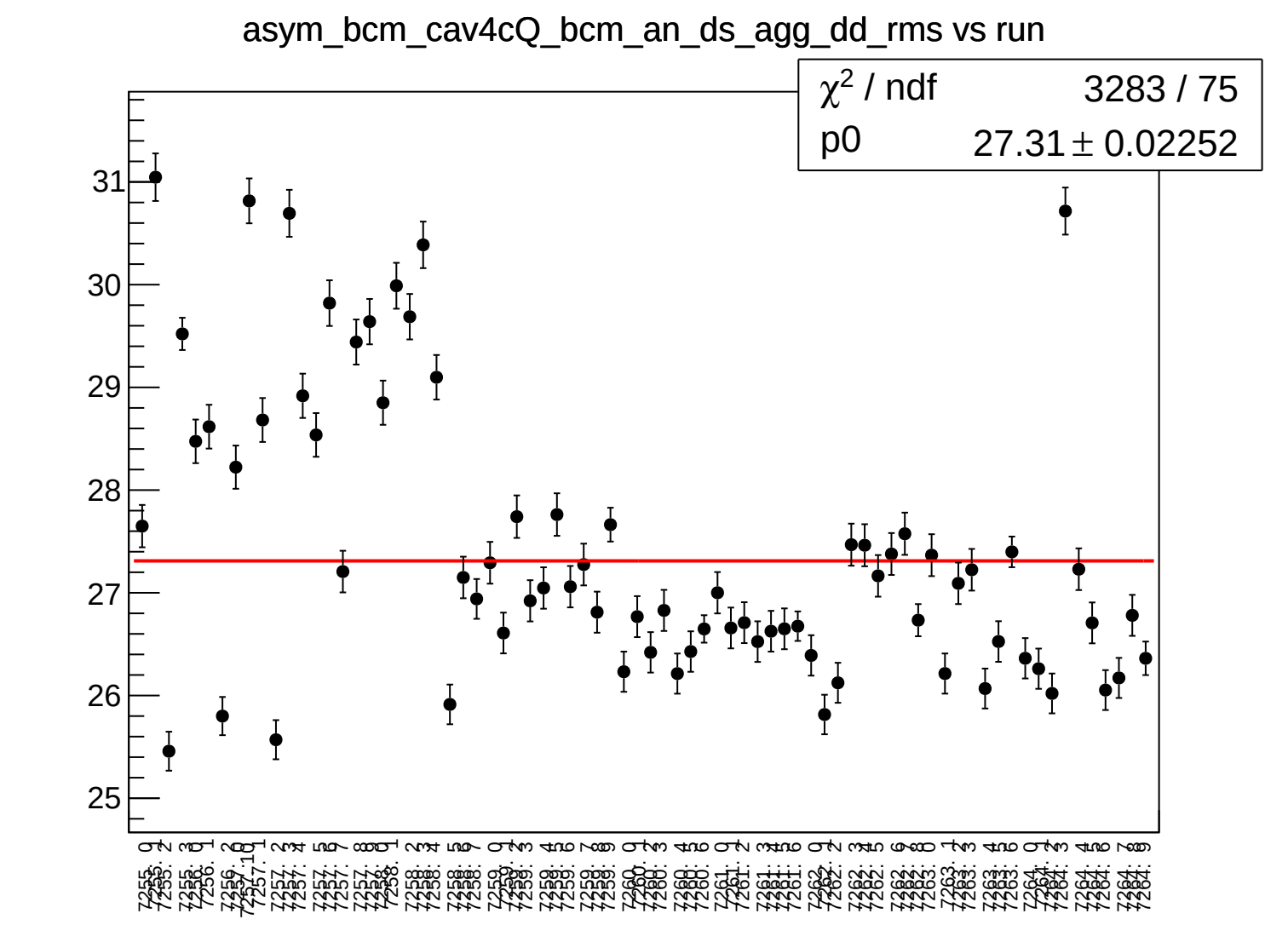

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.97 / 75
p0 3.8 ± 270.1
4000
2000
0
−2000
−4000
pull
Entries 76
Mean 106.4
Std Dev 90.29
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

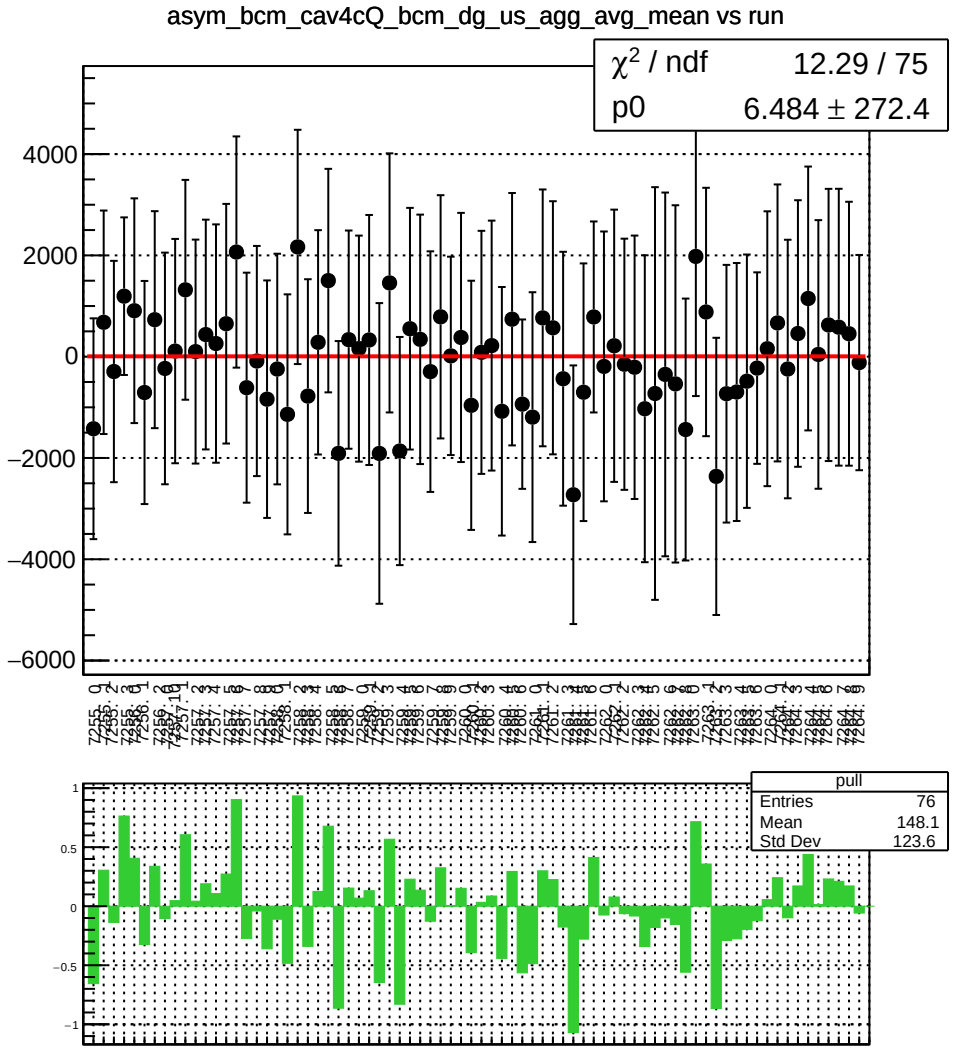

pull1D
Entries 76
Mean −0.006209
Std Dev 0.3799
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

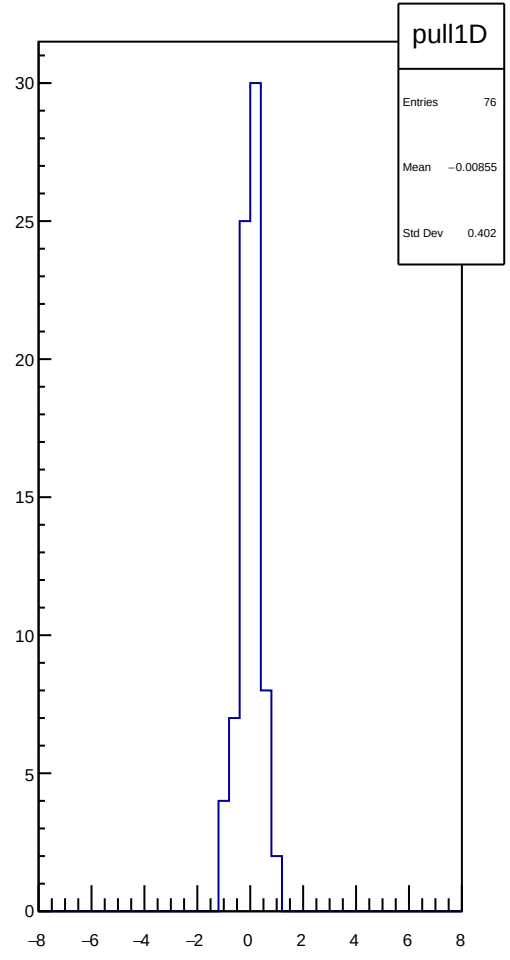

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.662e+04 / 75
p0 230.5 ± 0.191
400
350
300
250
200

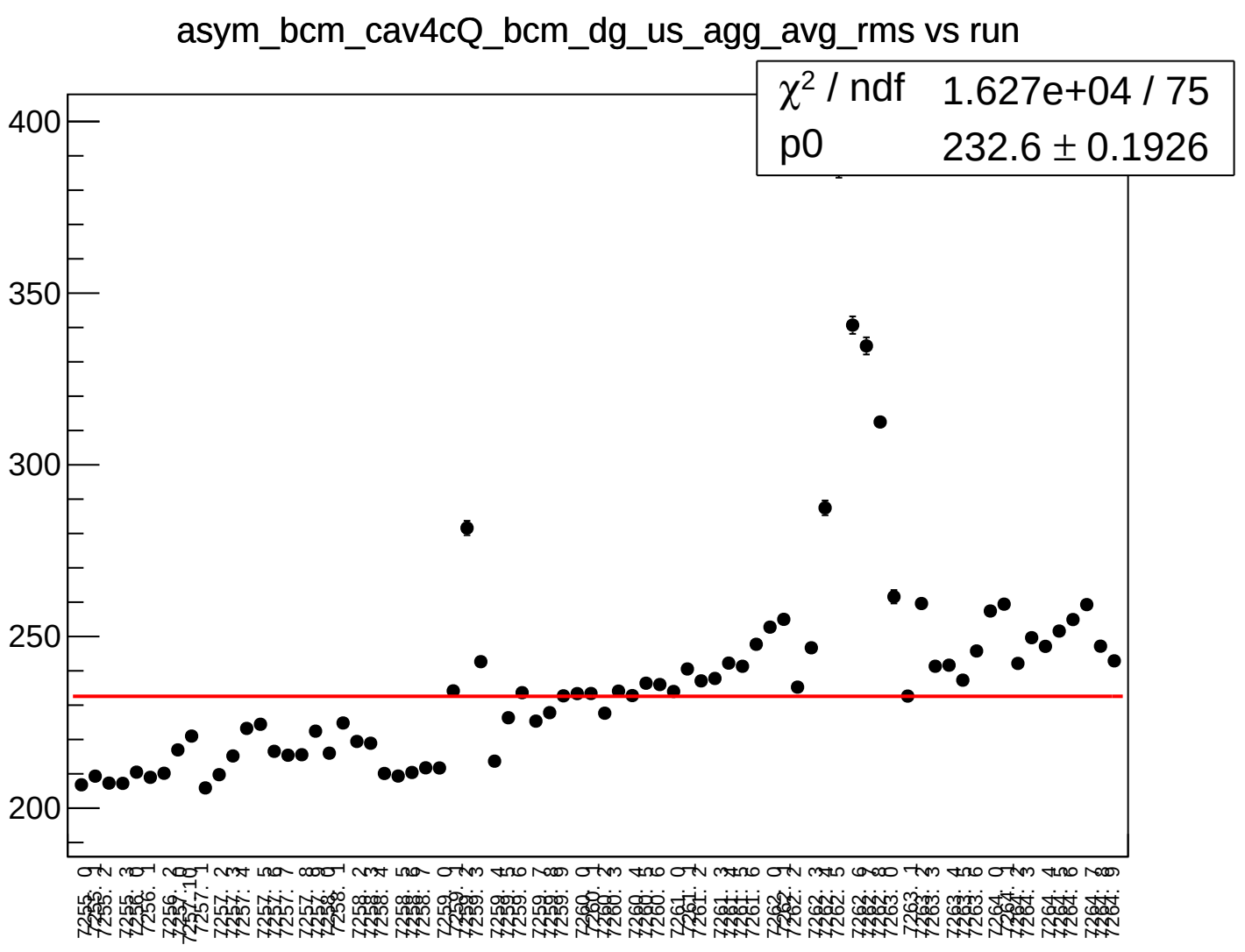

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.95 / 75
p0 22.73 ± 31.85
1000
500
0
−500
−1000
pull
Entries 76
Mean −10.01
Std Dev 62.35
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

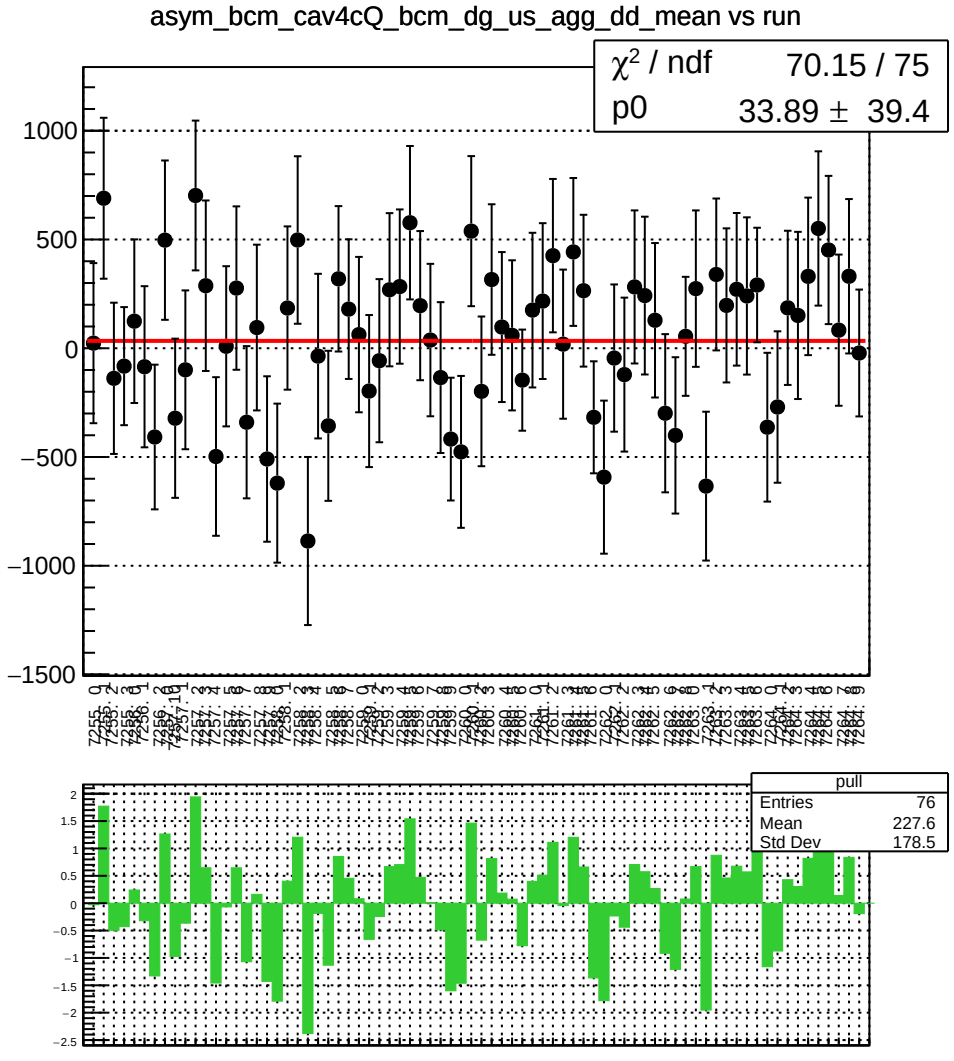

pull1D
Entries 76
Mean 0.02015
Std Dev 0.9242
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

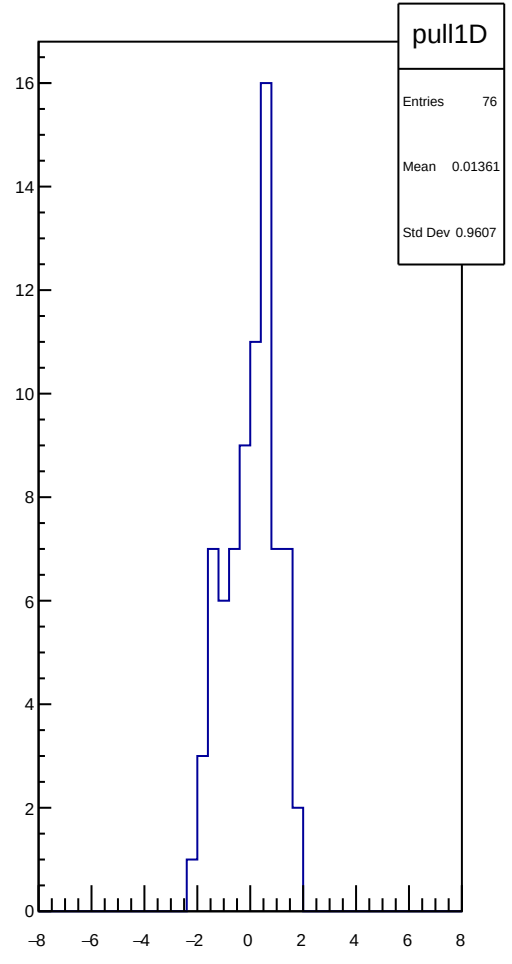

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3283 / 75
p0 27.31 ± 0.02252
31
30
29
28
27
26
25

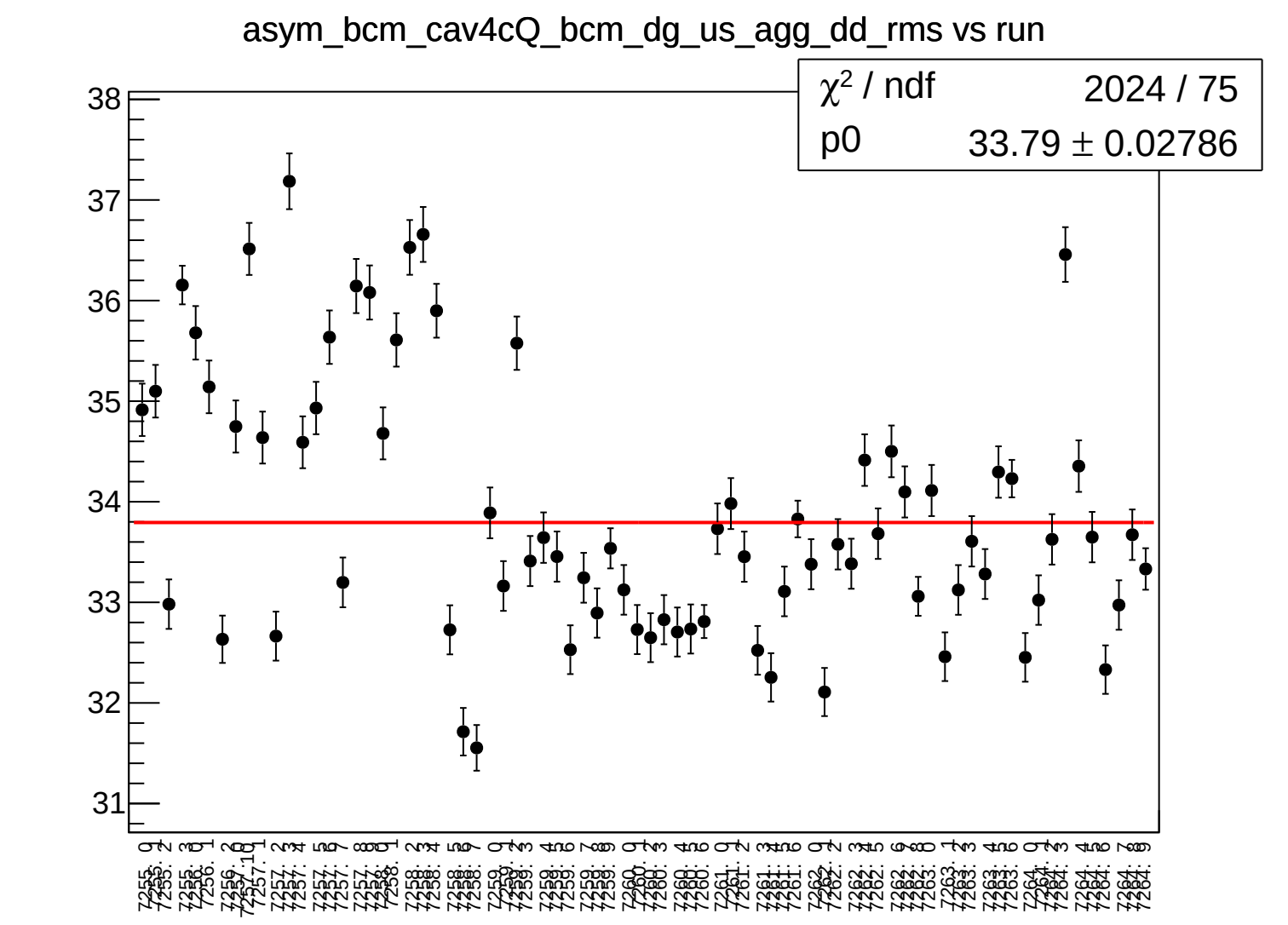

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.29 / 75
p0 6.484 ± 272.4
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 148.1
Std Dev 123.6
1
0.5
0
−0.5
−1

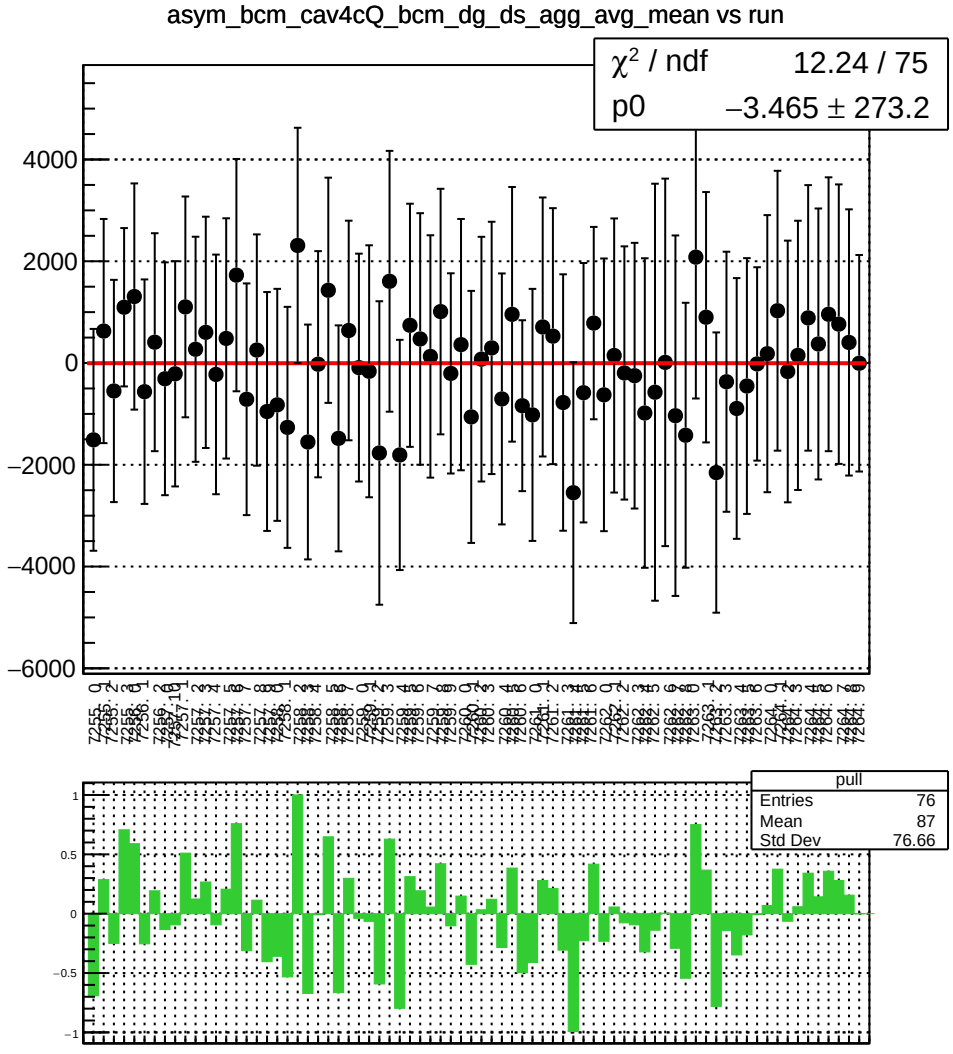

pull1D
Entries 76
Mean −0.00855
Std Dev 0.402
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

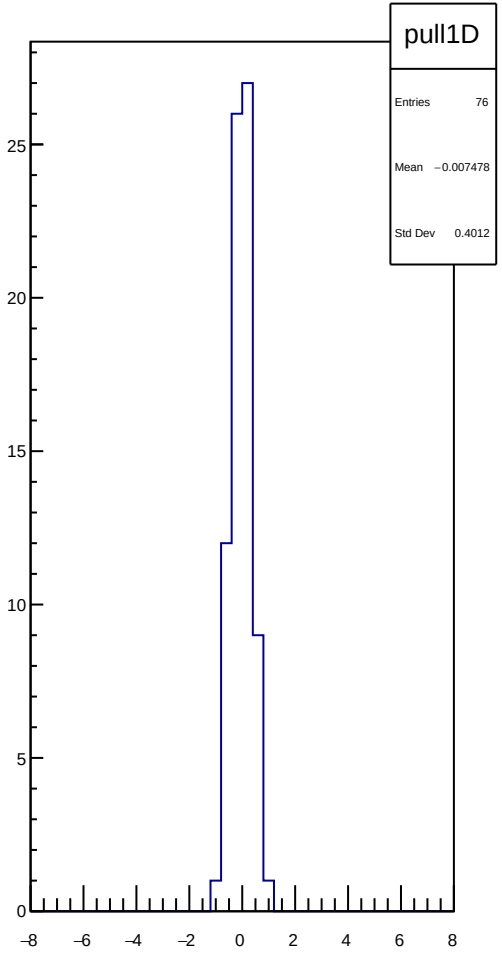

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.627e+04 / 75
p0 232.6 ± 0.1926
400
350
300
250
200

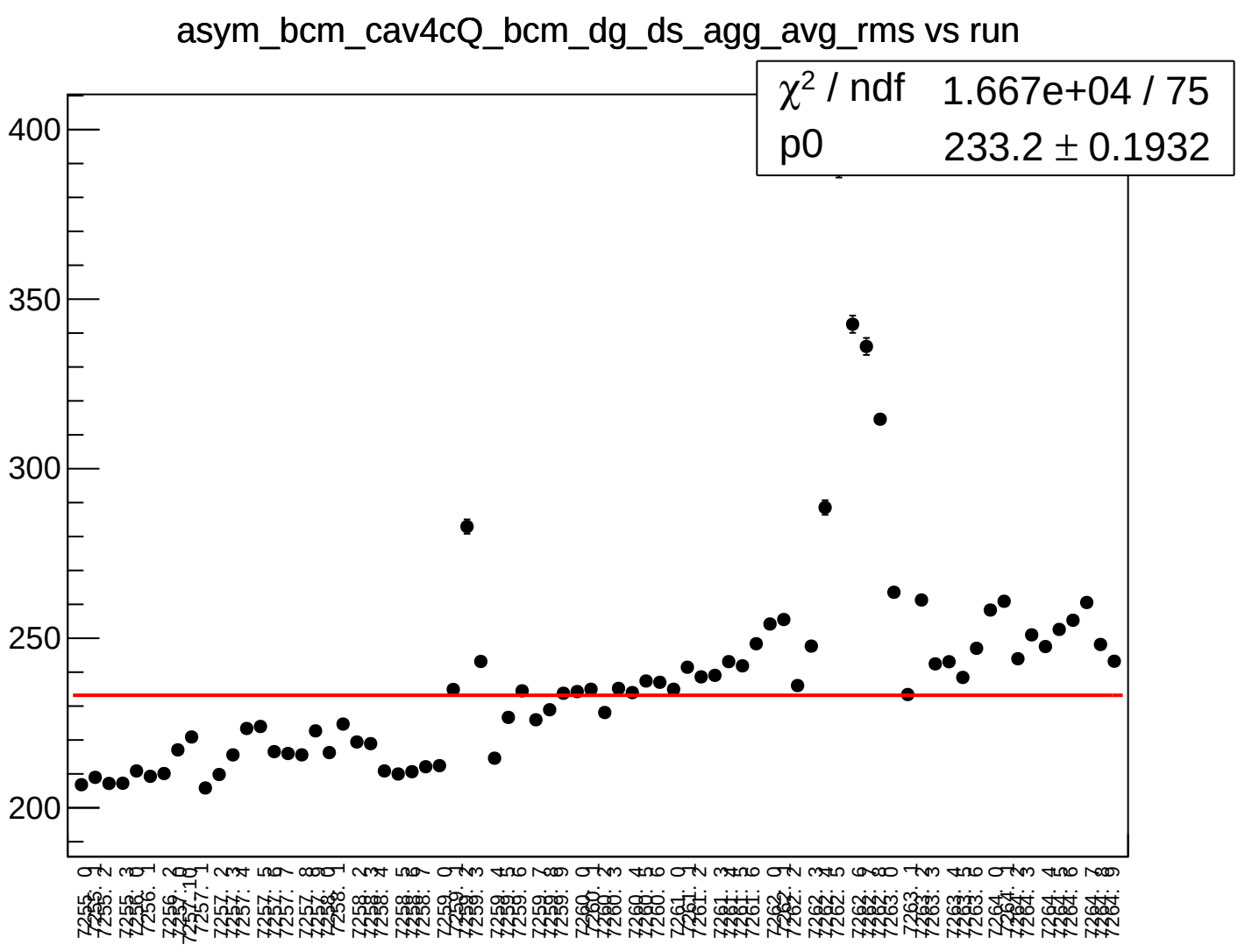

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.15 / 75
p0 33.89 ± 39.4
pull
Entries 76
Mean 227.6
Std Dev 178.5

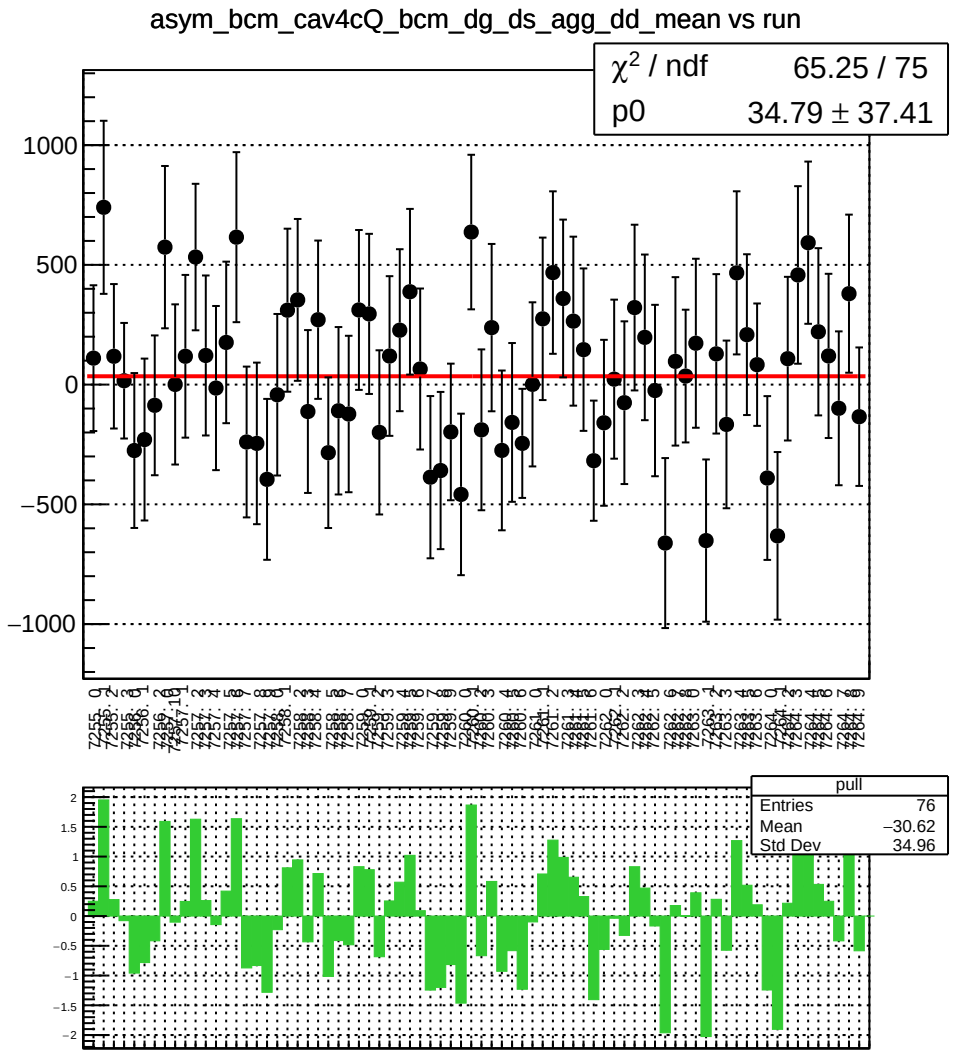

pull1D
Entries 76
Mean 0.01361
Std Dev 0.9607

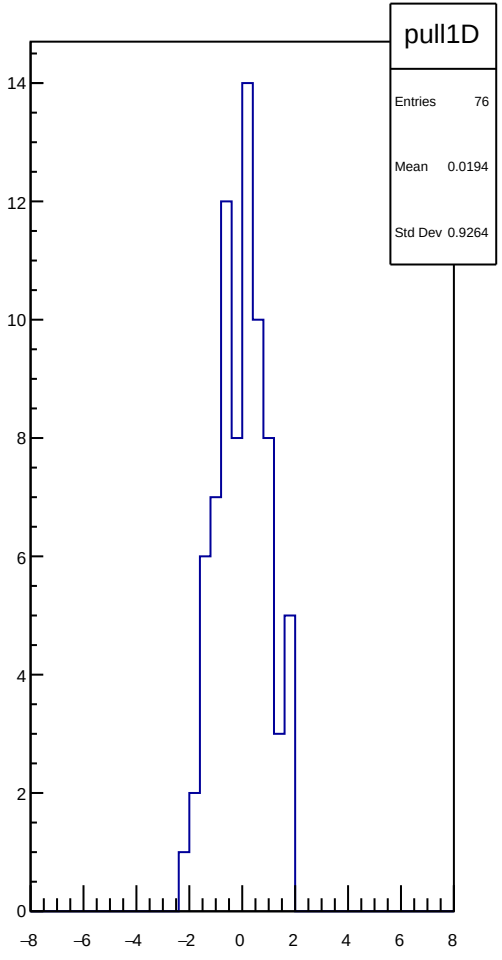

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2024 / 75
p0 33.79 ± 0.02786
38
37
36
35
34
33
32
31

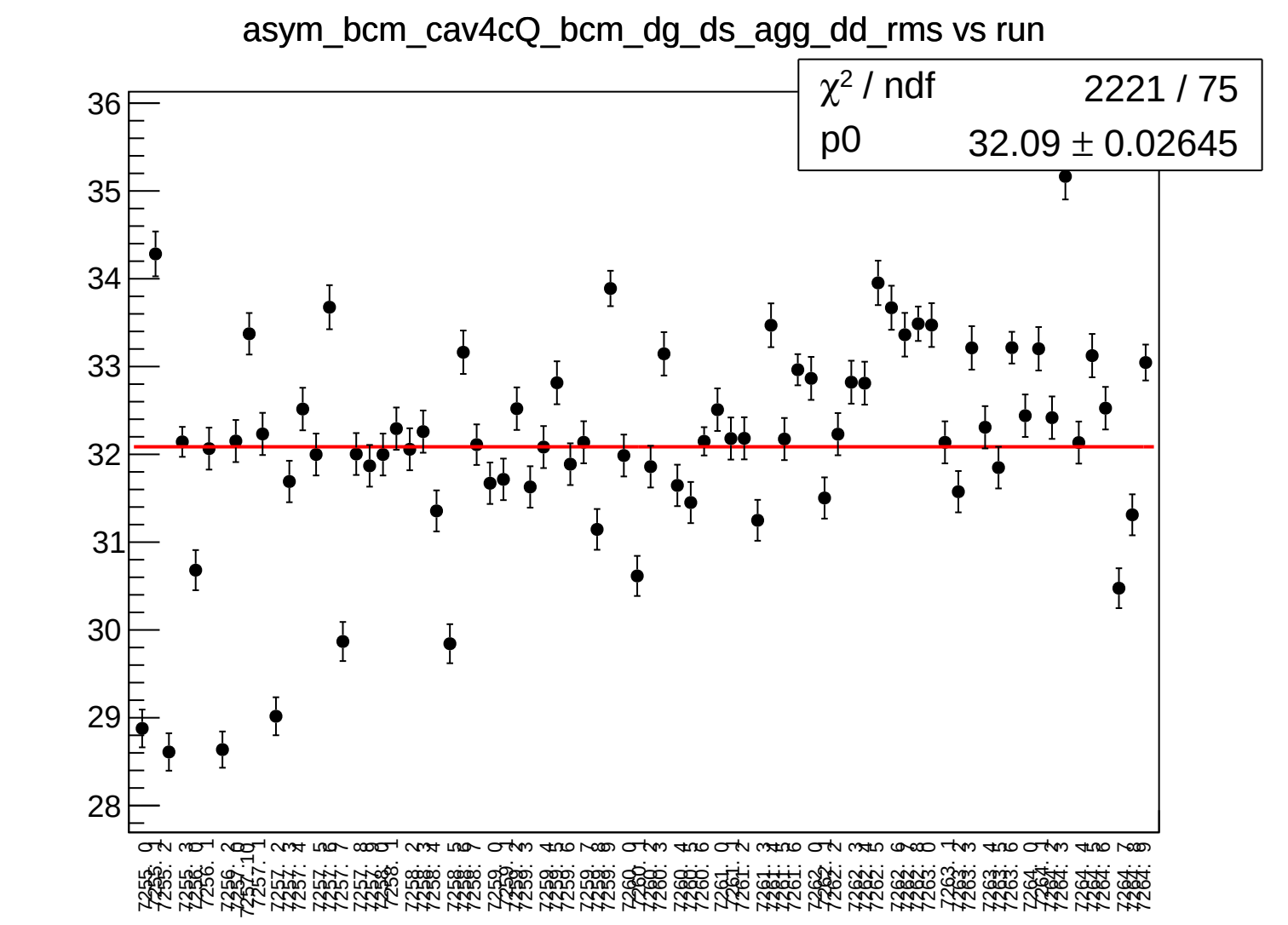

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.24 / 75
p0 −3.465 ± 273.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 87
Std Dev 76.66
1
0.5
0
−0.5
−1

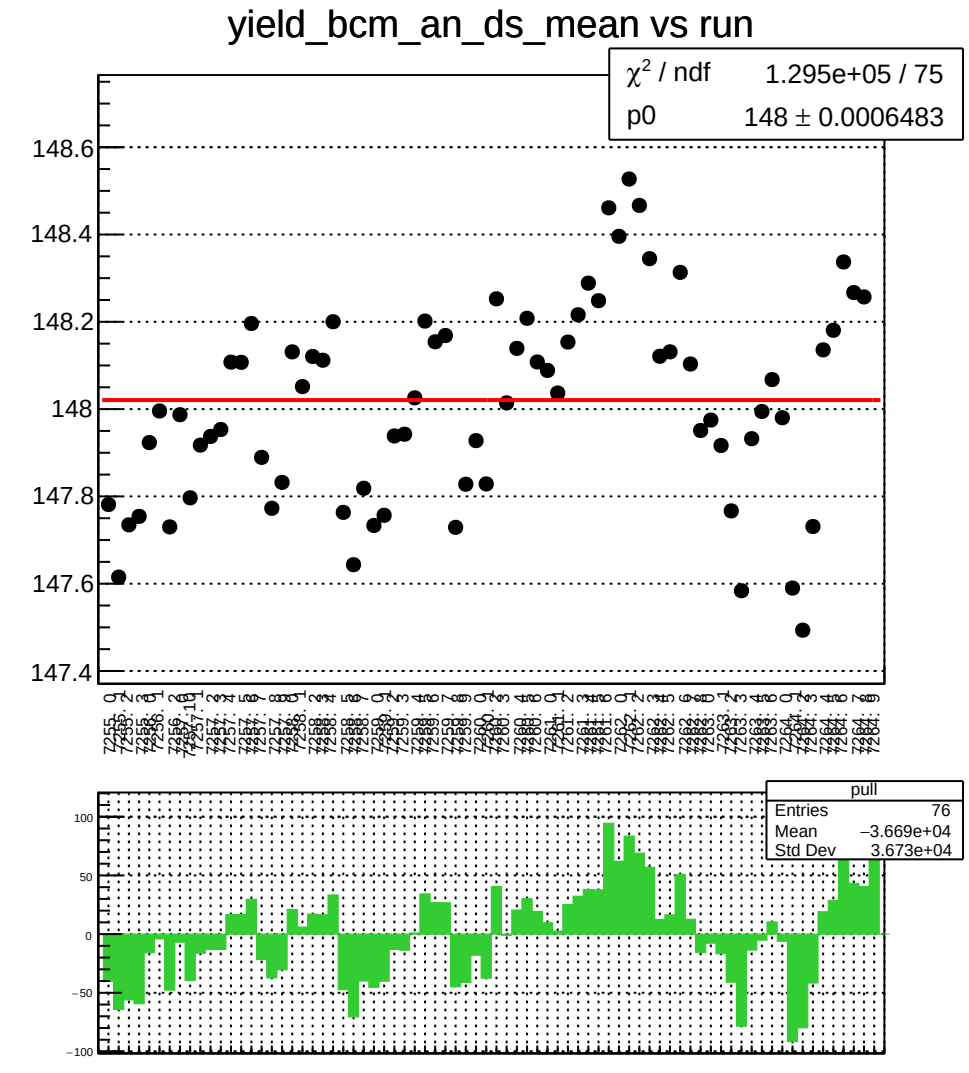

pull1D
Entries 76
Mean −0.007478
Std Dev 0.4012
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

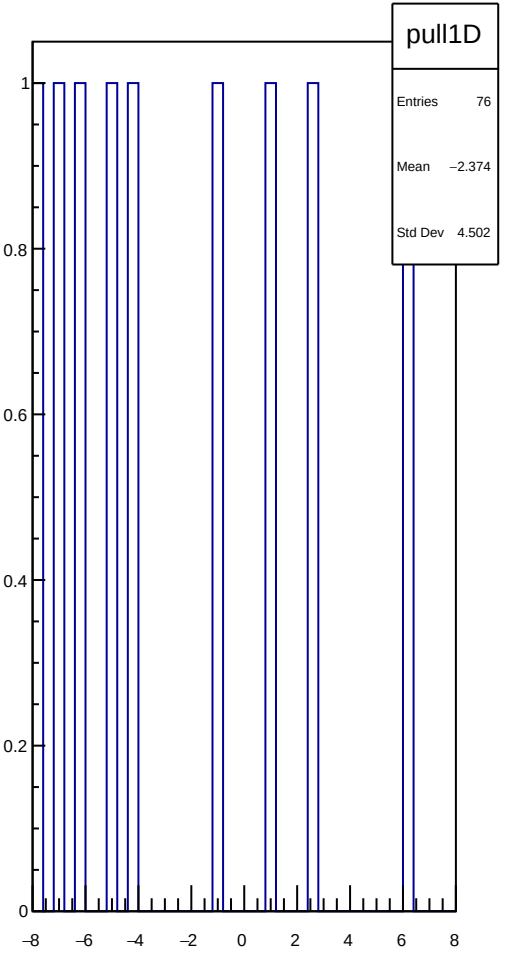

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.667e+04 / 75
p0 233.2 ± 0.1932
400
350
300
250
200

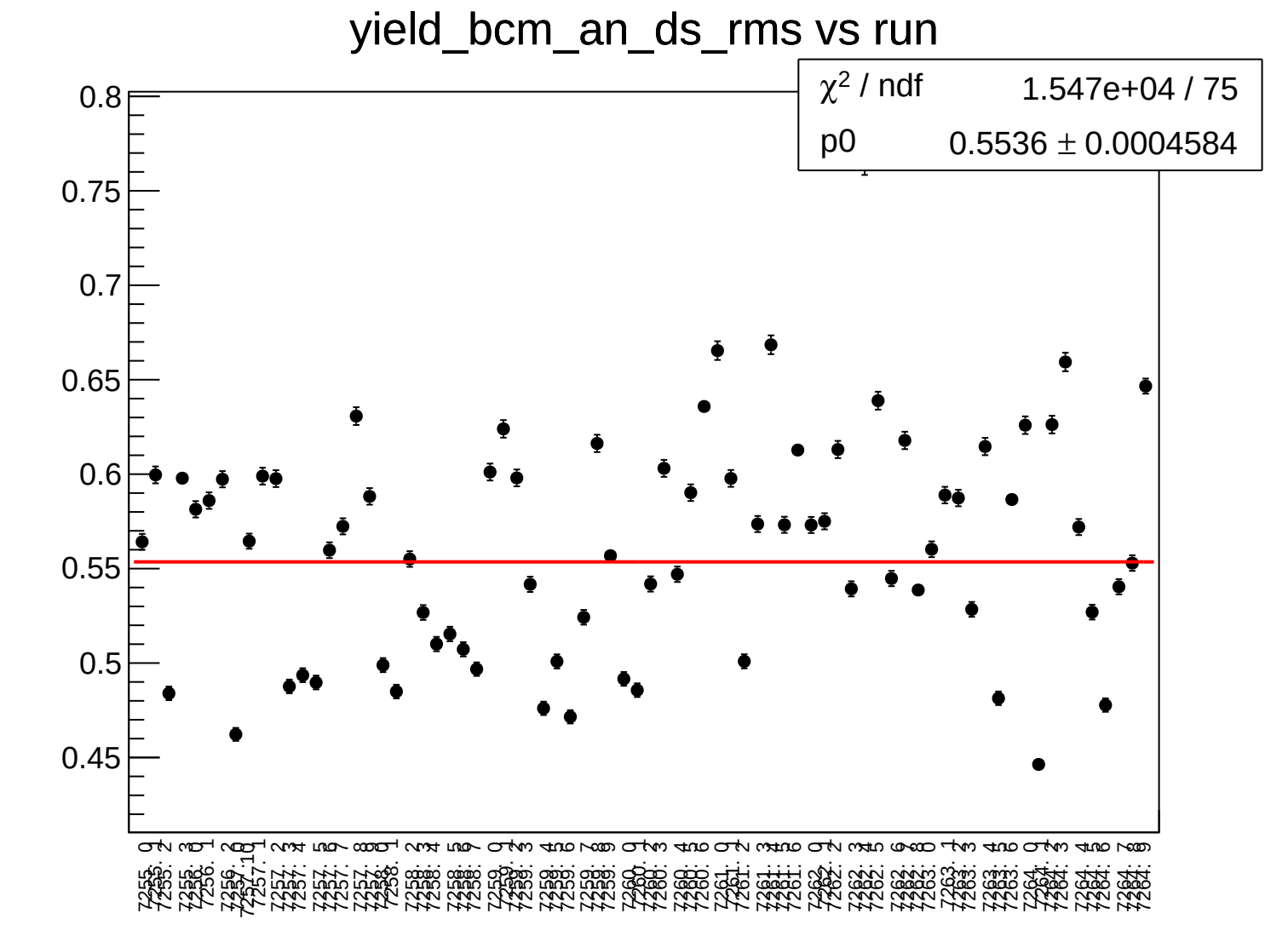

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.25 / 75
p0 34.79 ± 37.41
pull
Entries 76
Mean −30.62
Std Dev 34.96

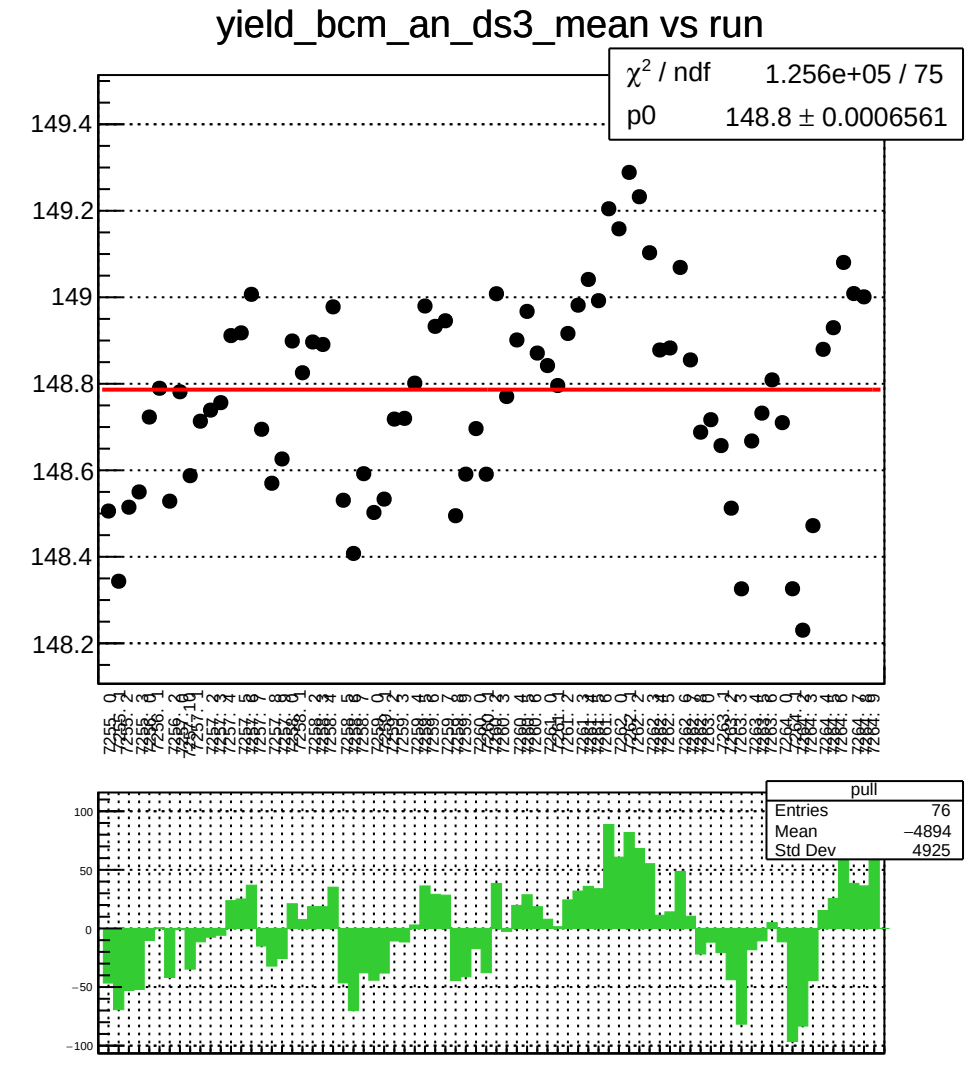

pull1D
Entries 76
Mean 0.0194
Std Dev 0.9264

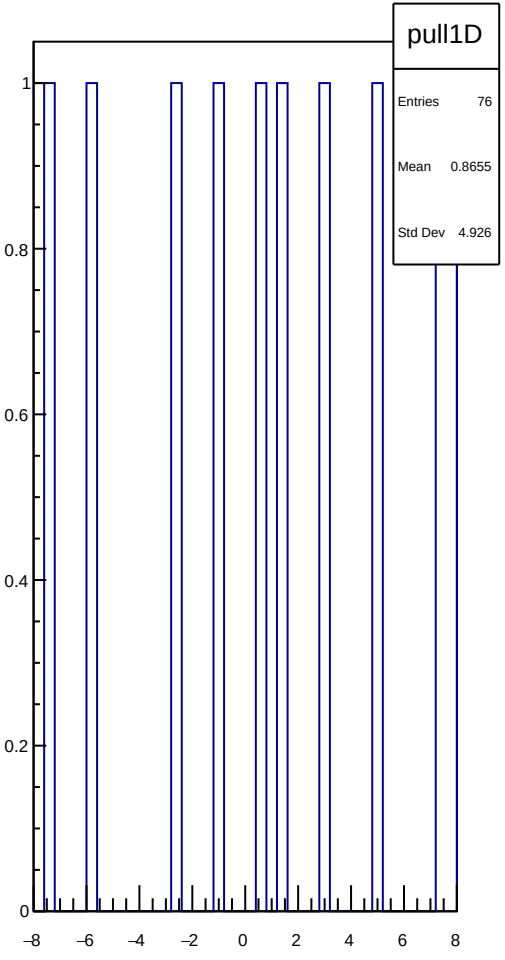

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2221 / 75
p0 32.09 ± 0.02645
36
35
34
33
32
31
30
29
28

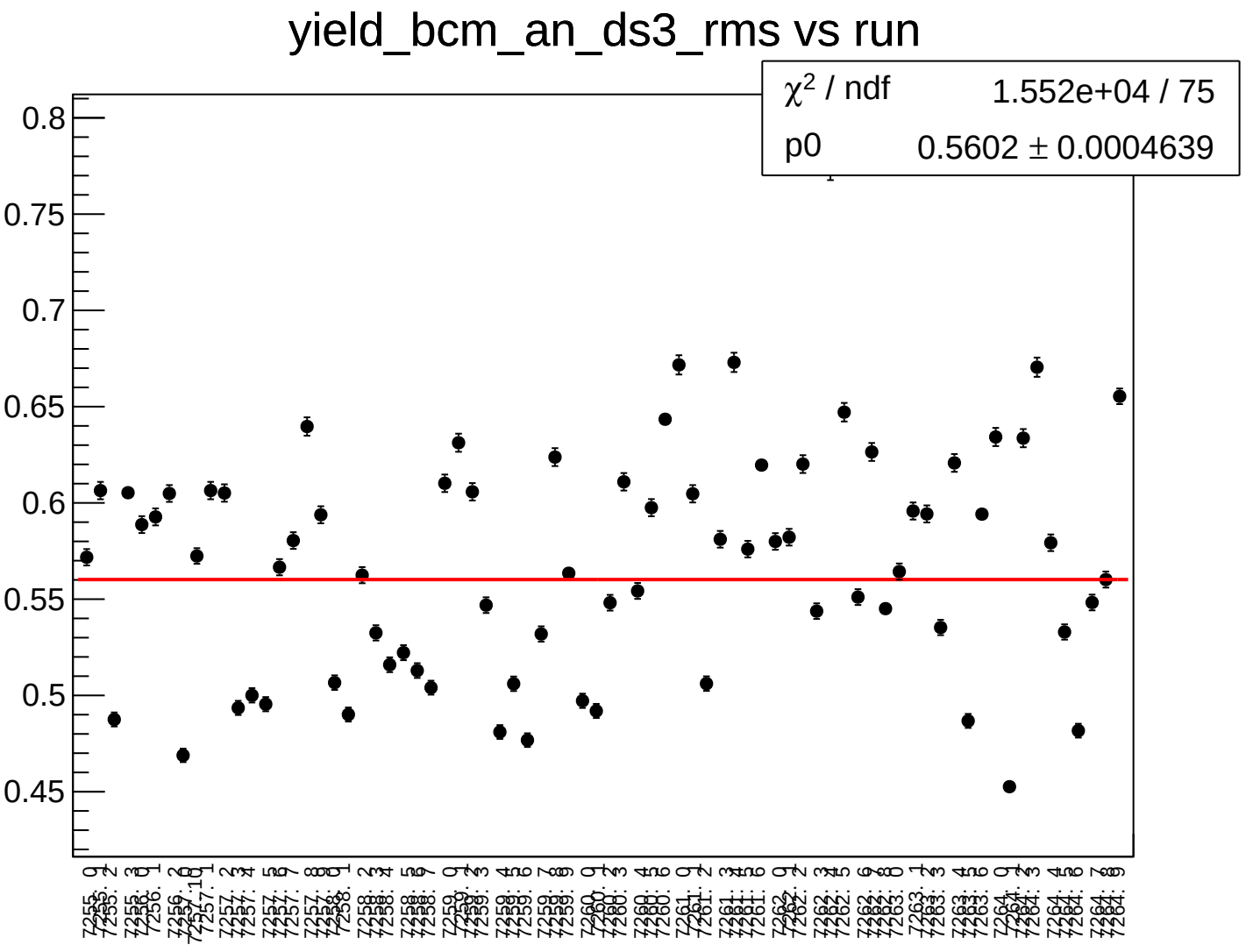

yield_bcm_an_ds_mean vs run
χ² / ndf 1.295e+05 / 75
p0 148 ± 0.0006483
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 76
Mean −3.669e+04
Std Dev 3.673e+04
100
50
0
−50
−100

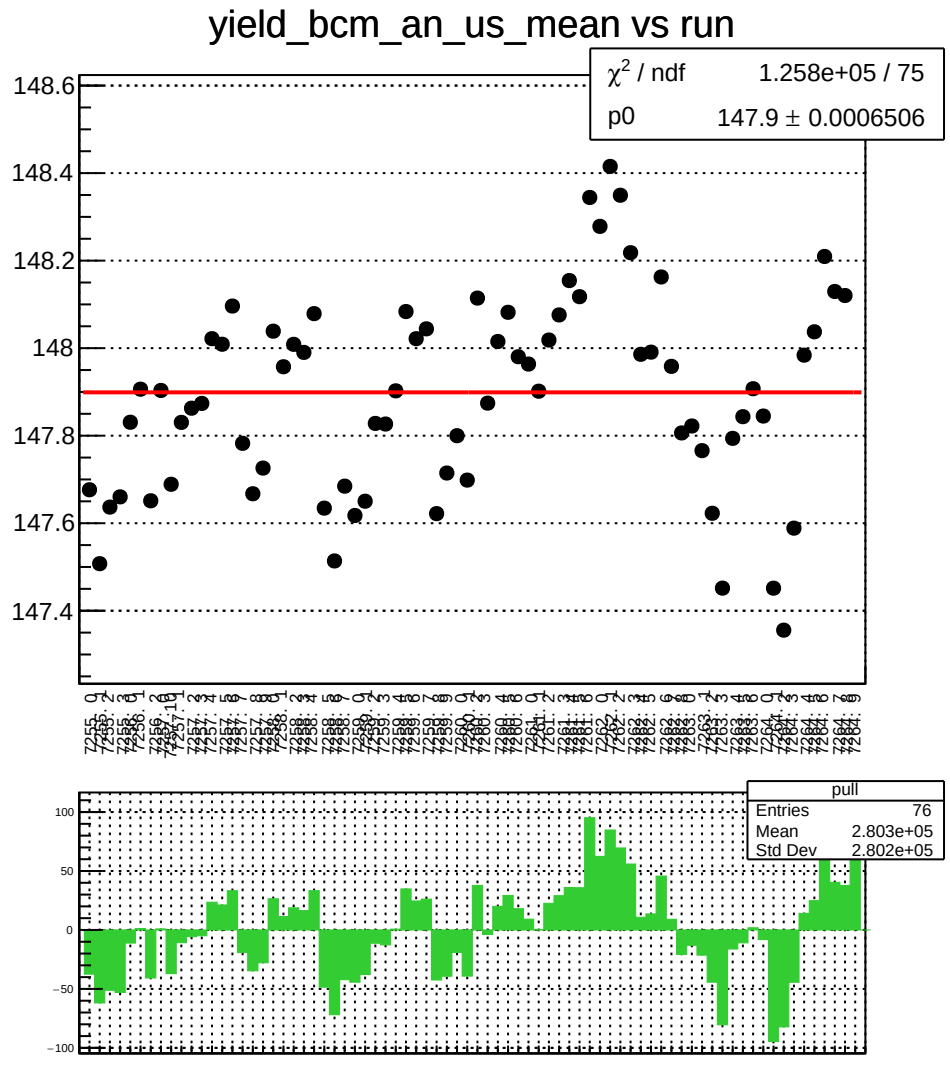

pull1D
Entries 76
Mean −2.374
Std Dev 4.502
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

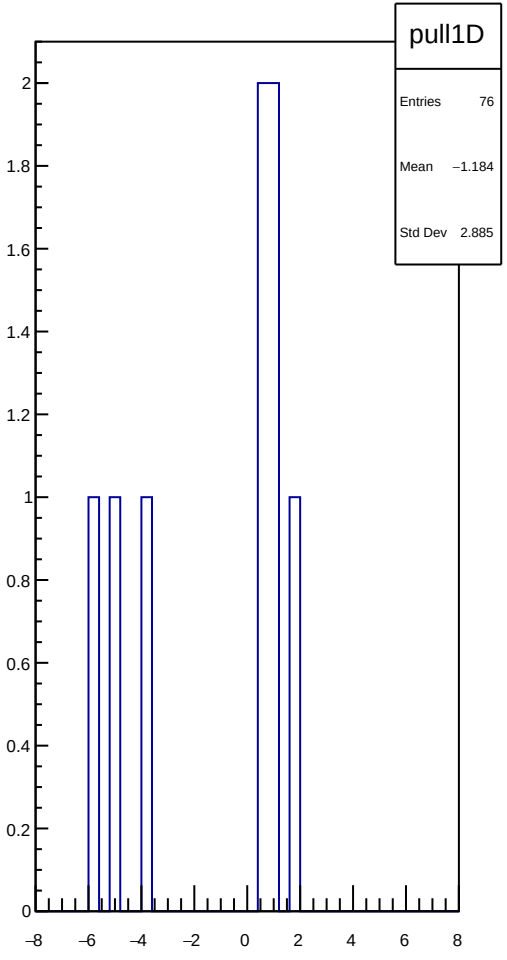

yield_bcm_an_ds_rms vs run
χ² / ndf 1.547e+04 / 75
p0 0.5536 ± 0.0004584
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

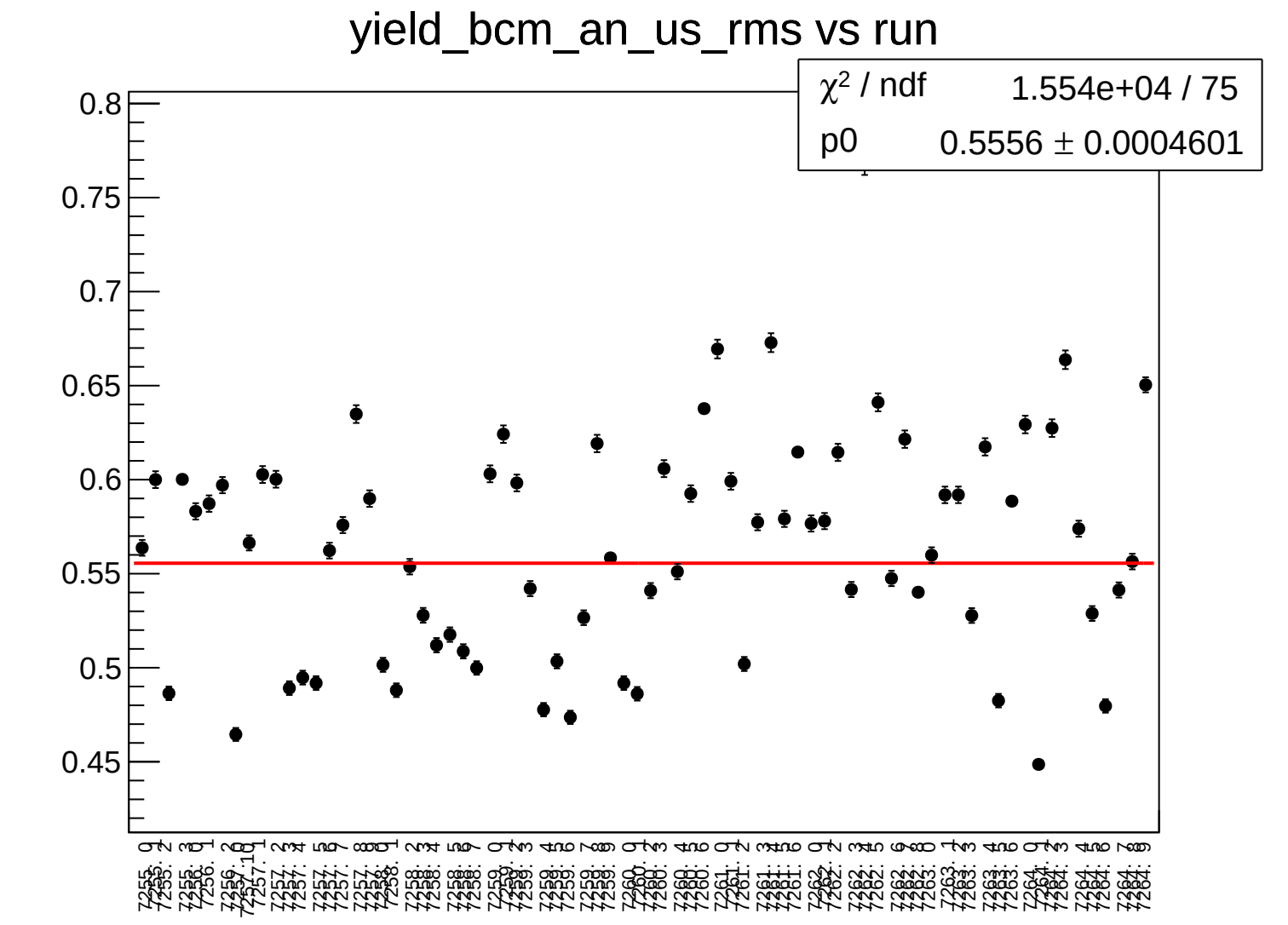

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.256e+05 / 75
p0 148.8 ± 0.0006561
149.4
149.2
149
148.8
148.6
148.4
148.2
pull
Entries 76
Mean −4894
Std Dev 4925
100
50
0
−50
−100

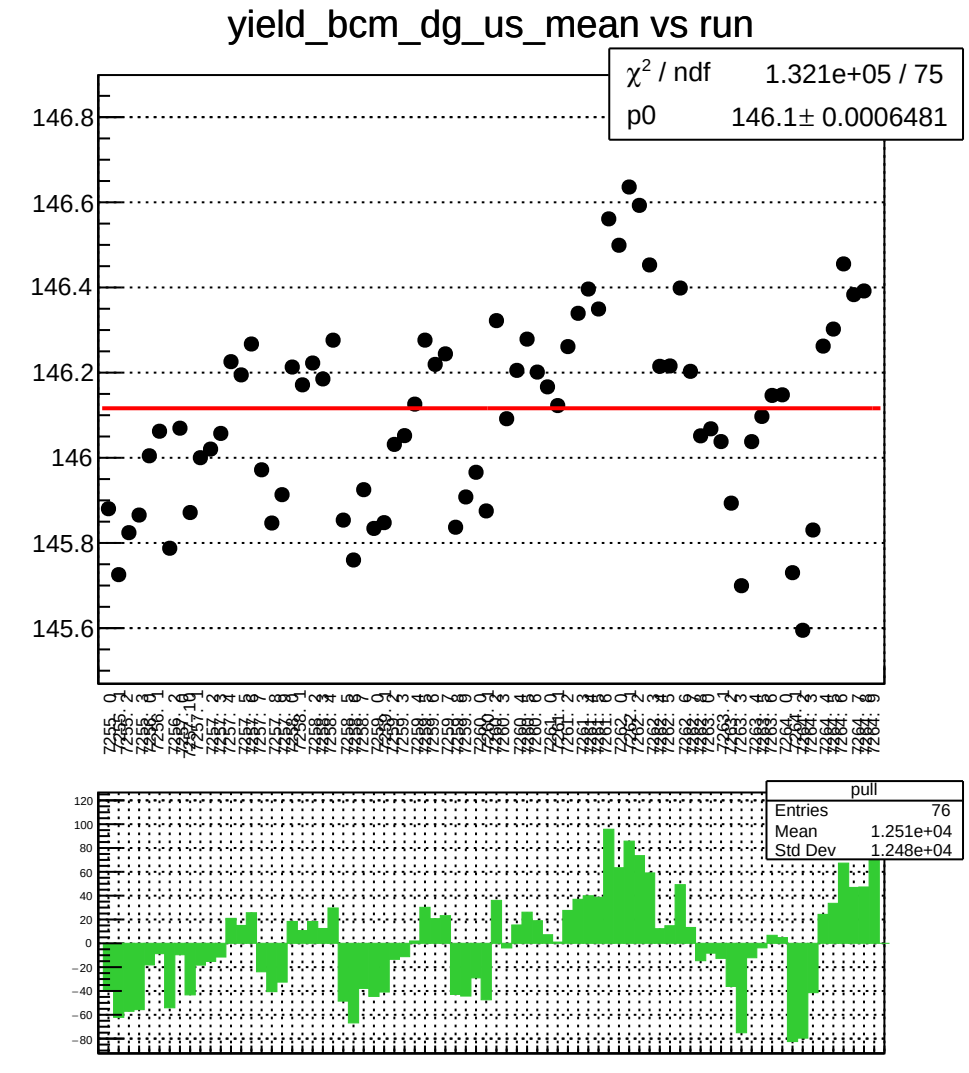

pull1D
Entries 76
Mean 0.8655
Std Dev 4.926
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

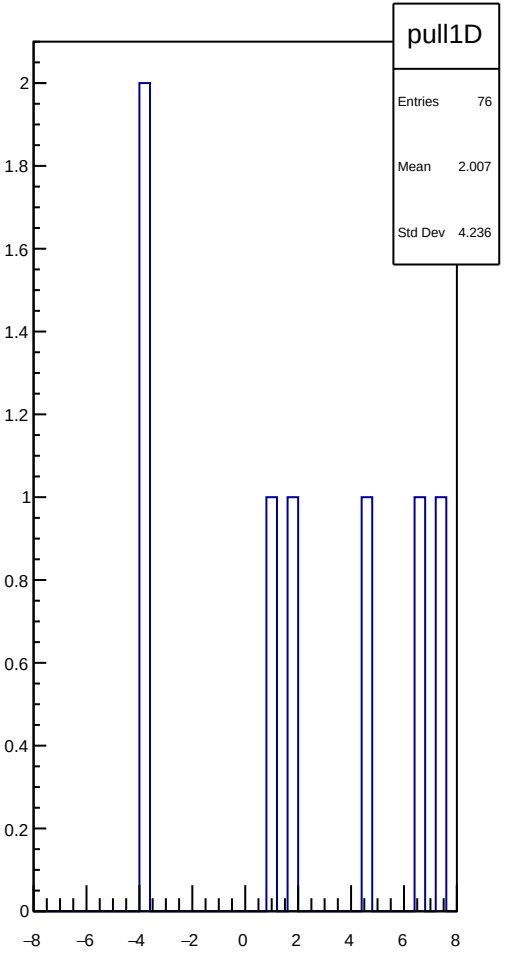

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.552e+04 / 75
p0 0.5602 ± 0.0004639
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

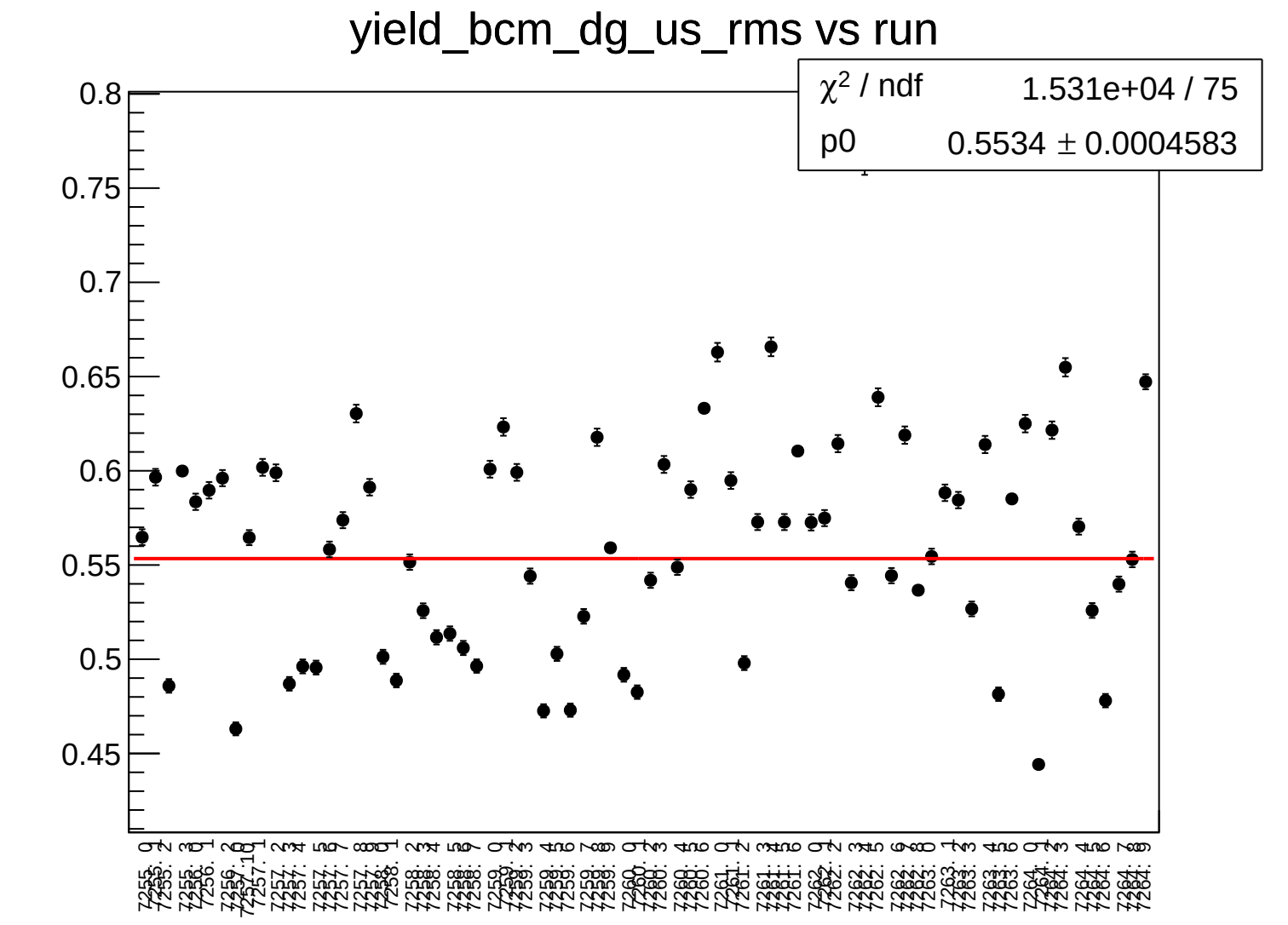

yield_bcm_an_us_mean vs run
χ² / ndf 1.258e+05 / 75
p0 147.9 ± 0.0006506
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 76
Mean 2.803e+05
Std Dev 2.802e+05
100
50
0
−50
−100

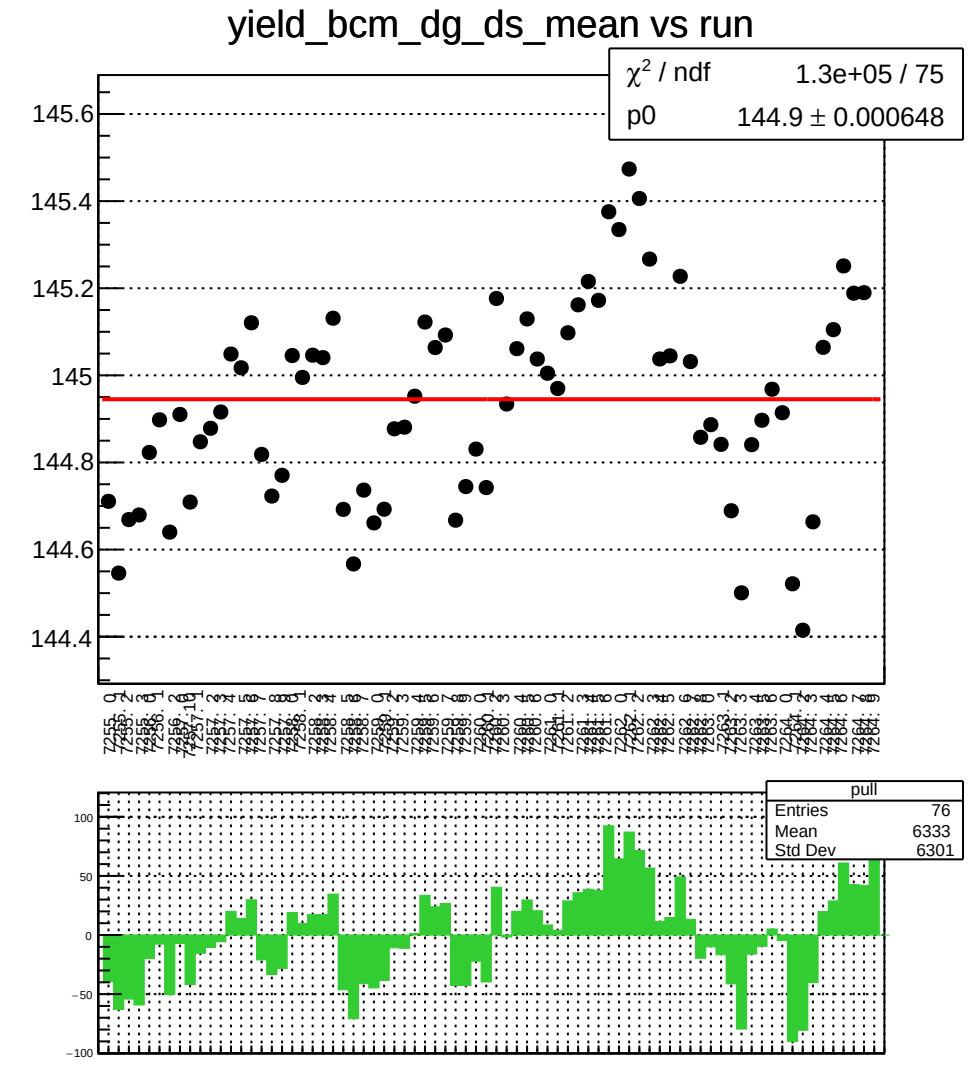

pull1D
Entries 76
Mean −1.184
Std Dev 2.885
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

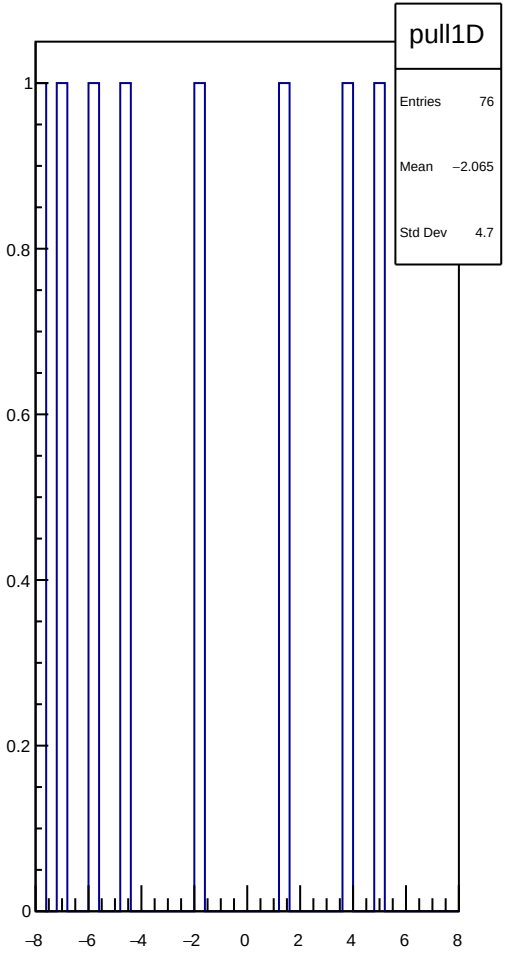

yield_bcm_an_us_rms vs run
χ² / ndf 1.554e+04 / 75
p0 0.5556 ± 0.0004601
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

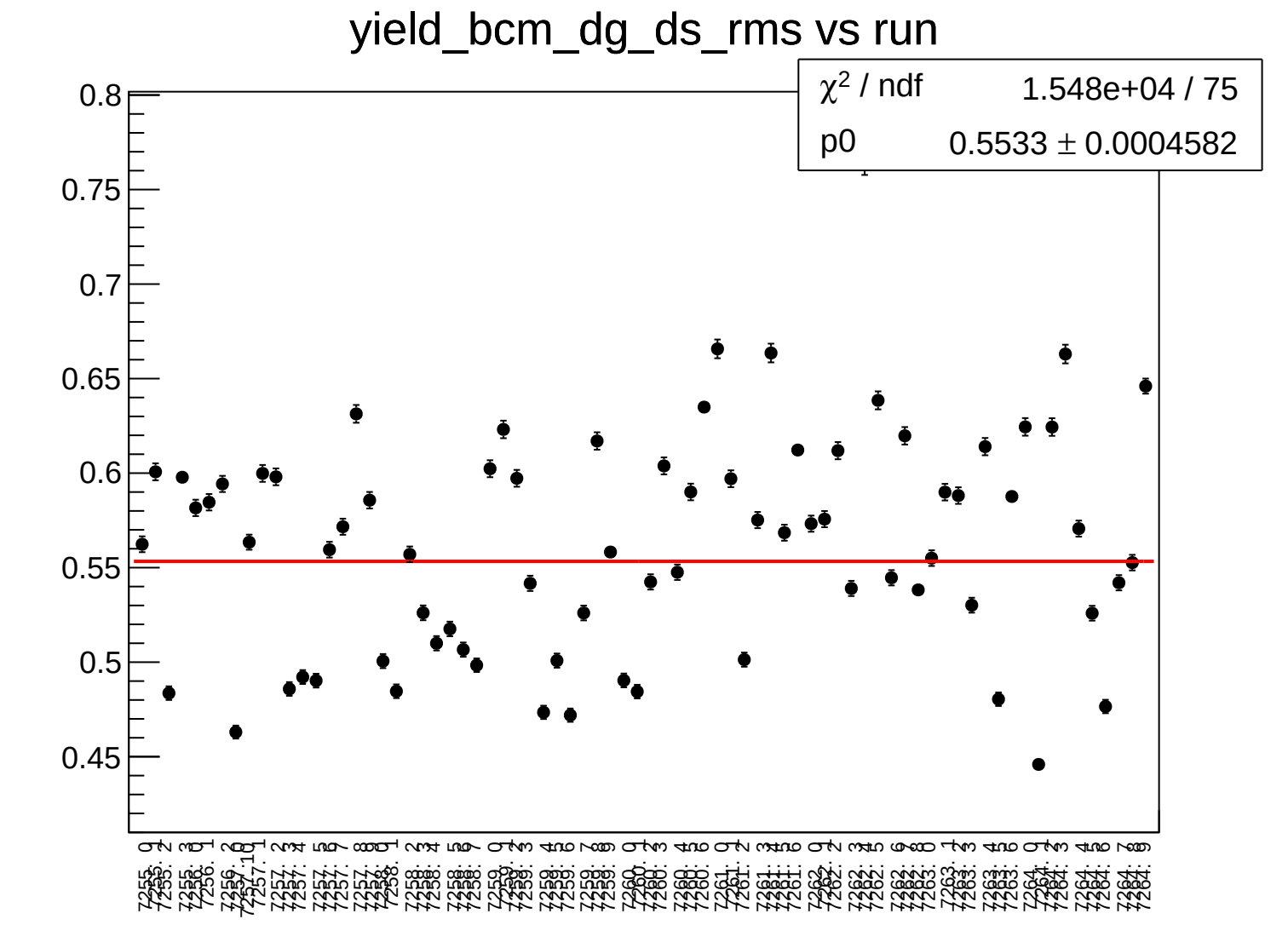

yield_bcm_dg_us_mean vs run
χ² / ndf 1.321e+05 / 75
p0 146.1± 0.0006481
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 76
Mean 1.251e+04
Std Dev 1.248e+04
120
100
80
60
40
20
0
−20
−40
−60
−80

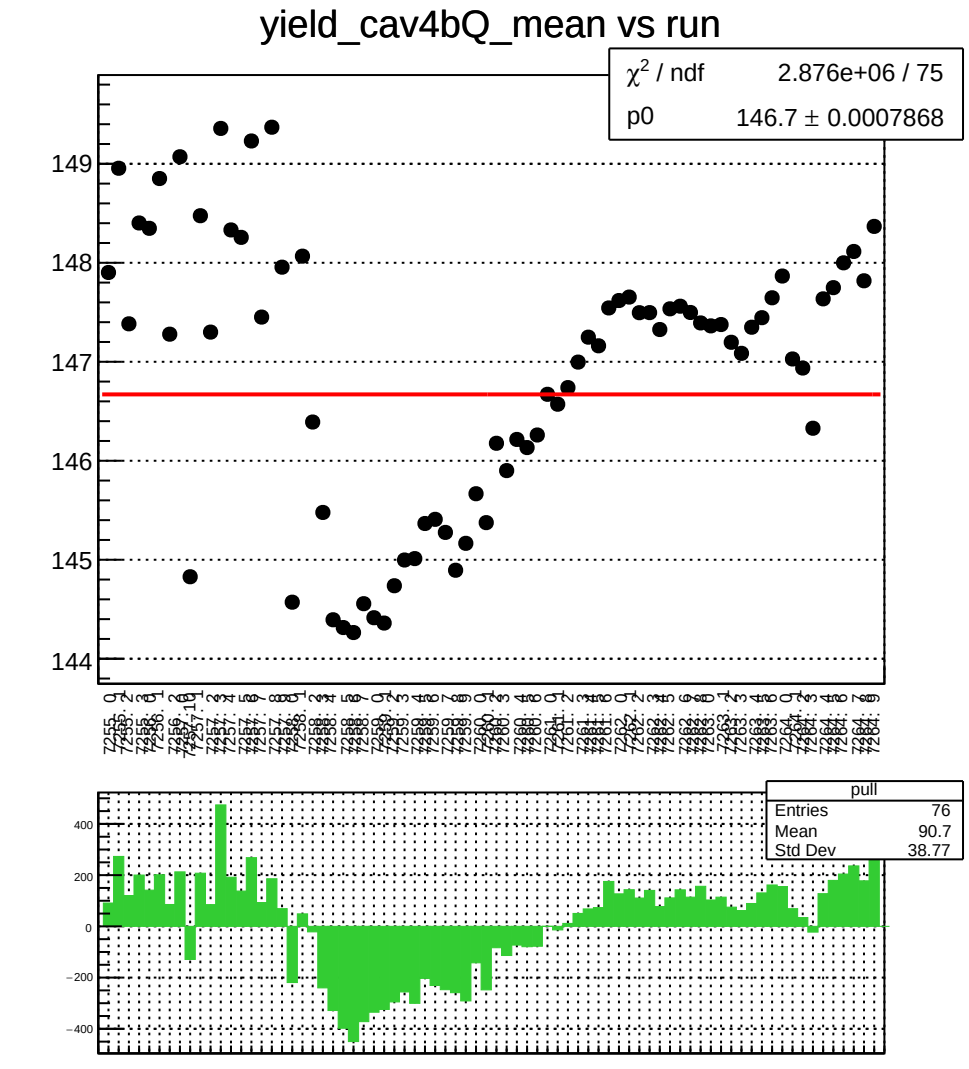

pull1D
Entries 76
Mean 2.007
Std Dev 4.236
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

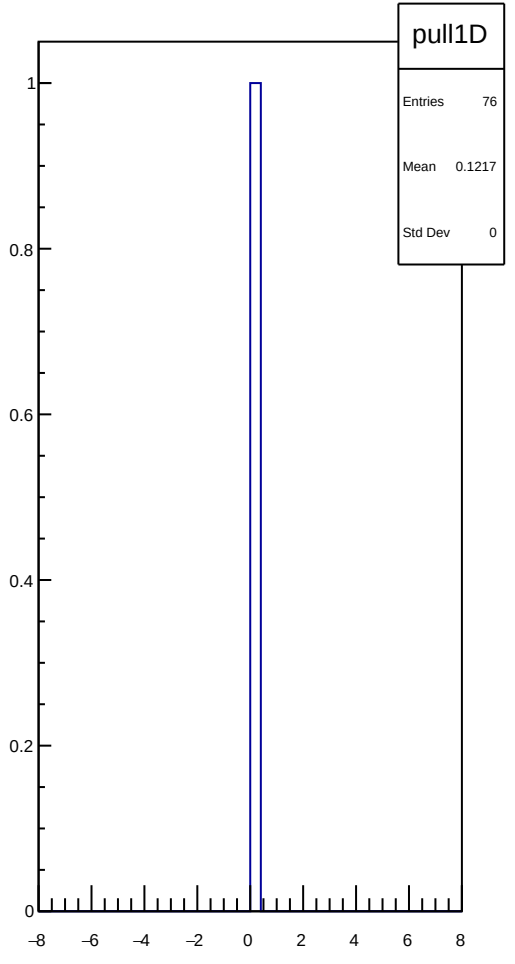

yield_bcm_dg_us_rms vs run
χ² / ndf 1.531e+04 / 75
p0 0.5534 ± 0.0004583
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

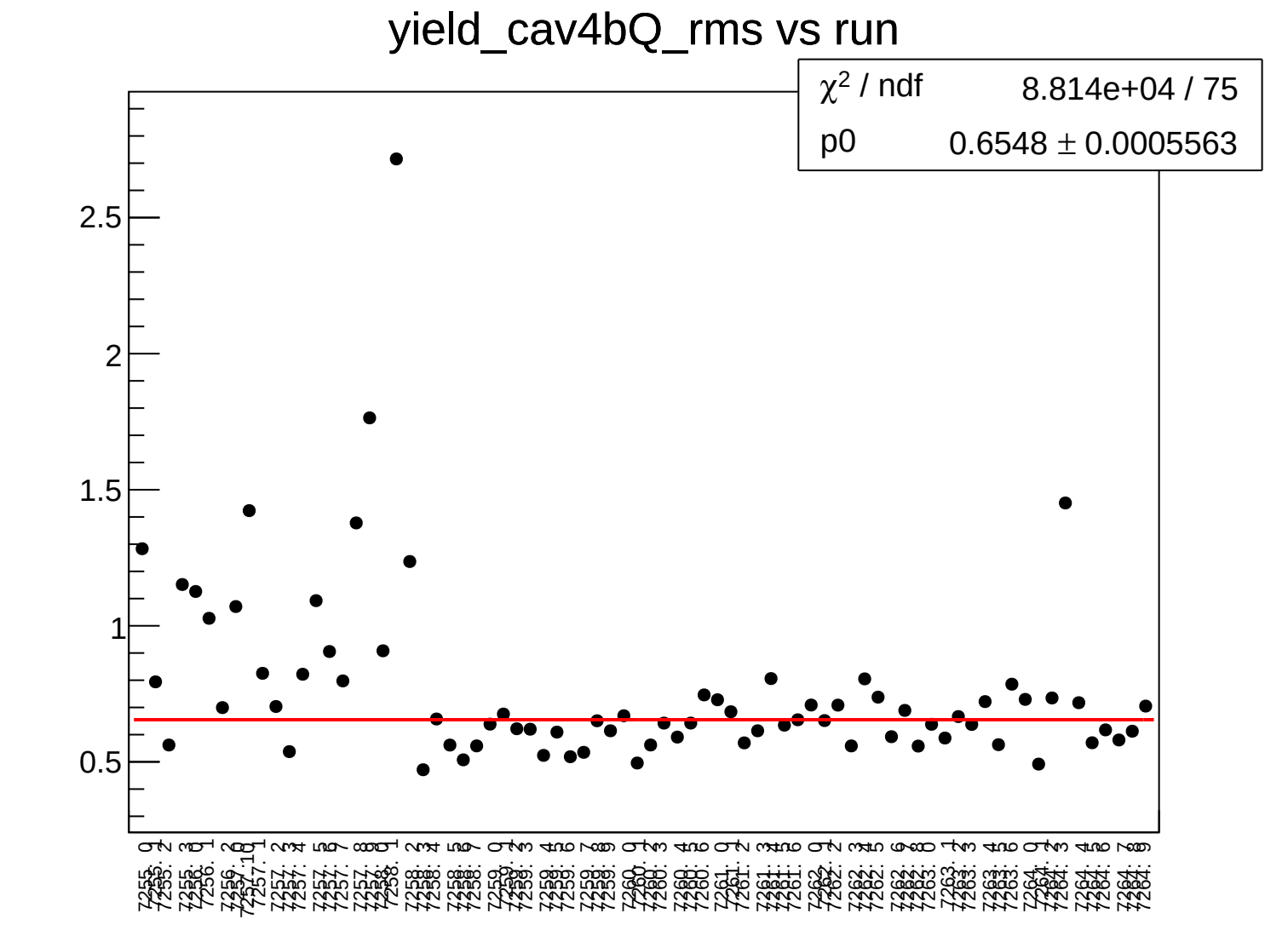

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.3e+05 / 75
p0 144.9 ± 0.000648
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 76
Mean 6333
Std Dev 6301
100
50
0
−50
−100

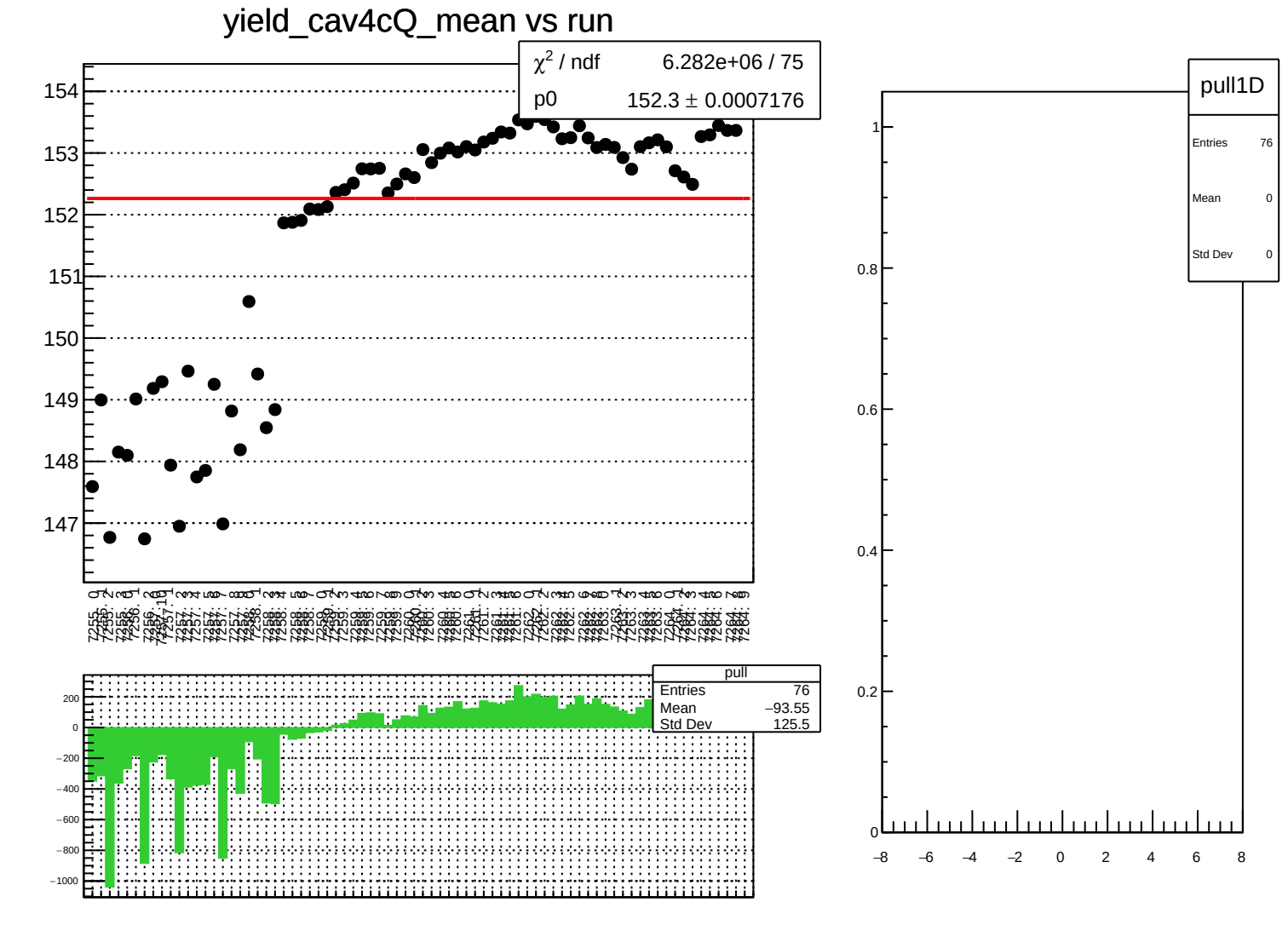

pull1D
Entries 76
Mean −2.065
Std Dev 4.7
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

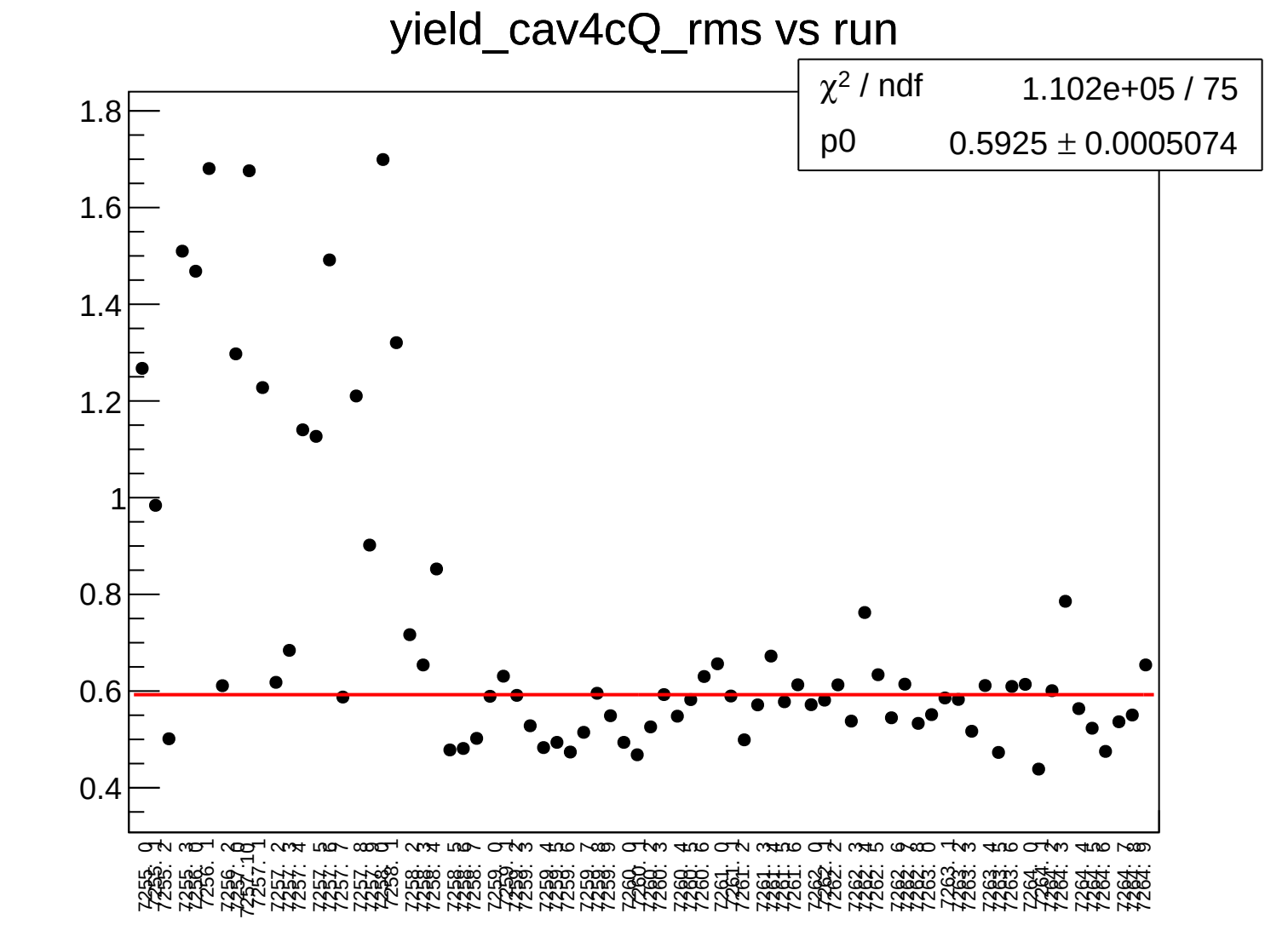

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.548e+04 / 75
p0 0.5533 ± 0.0004582
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

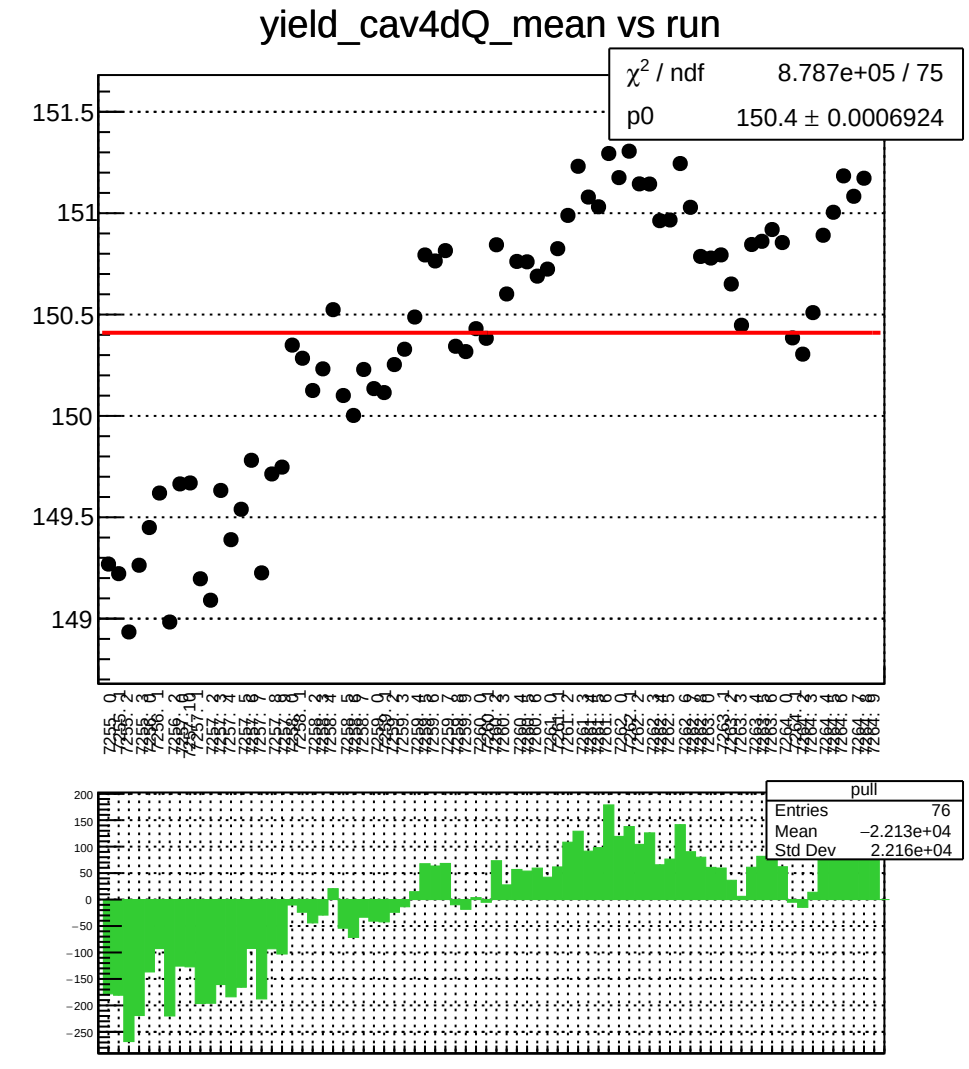

yield_cav4bQ_mean vs run
χ² / ndf 2.876e+06 / 75
p0 146.7 ± 0.0007868
149
148
147
146
145
144
pull
Entries 76
Mean 90.7
Std Dev 38.77
400
200
0
−200
−400

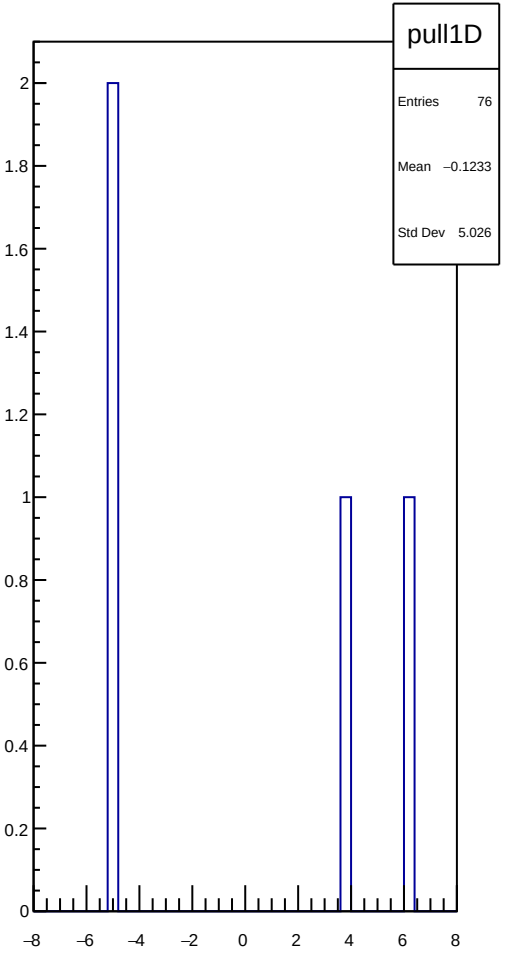

pull1D
Entries 76
Mean 0.1217
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

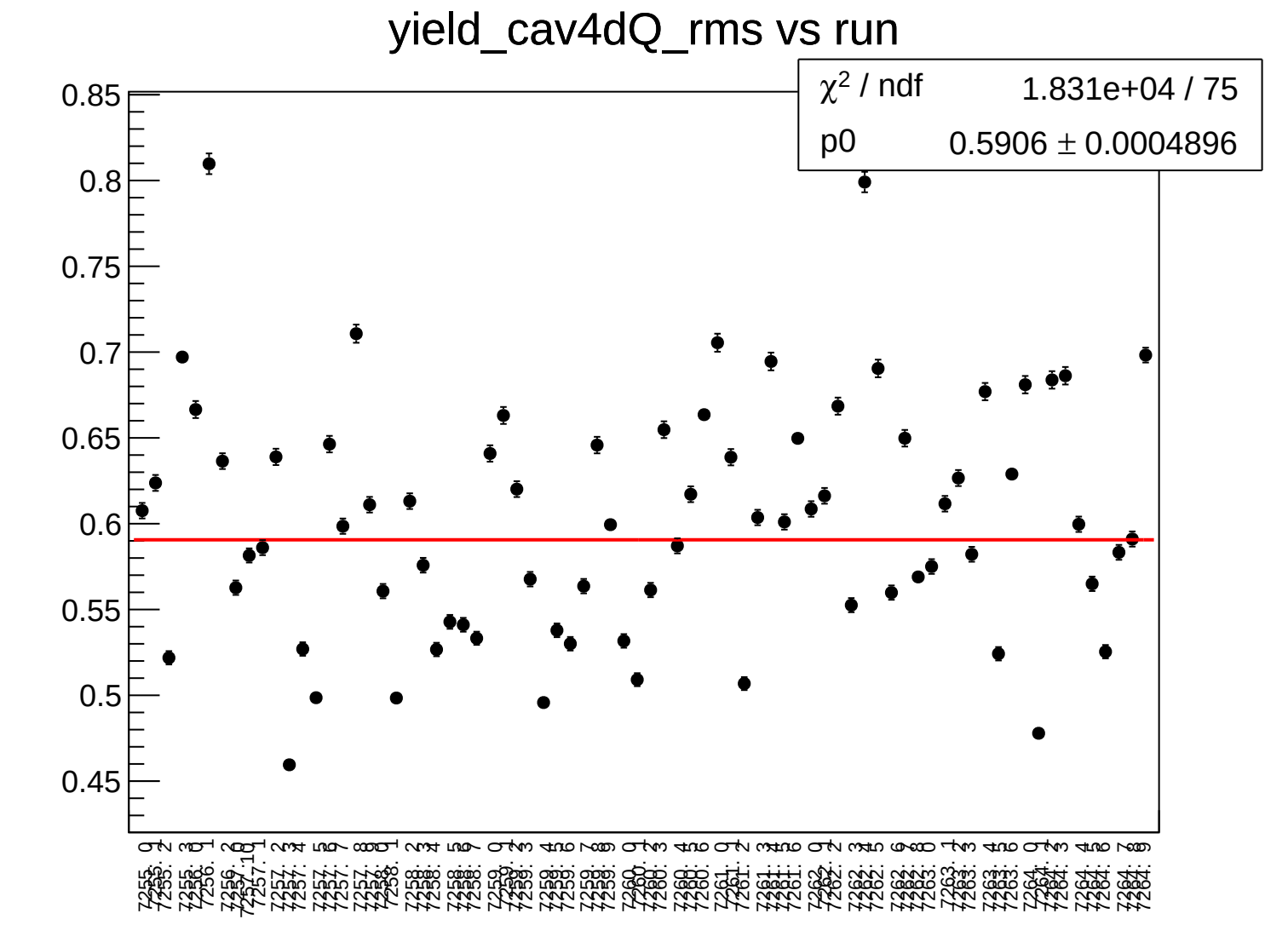

yield_cav4bQ_rms vs run
χ² / ndf 8.814e+04 / 75
p0 0.6548 ± 0.0005563
2.5
2
1.5
1
0.5

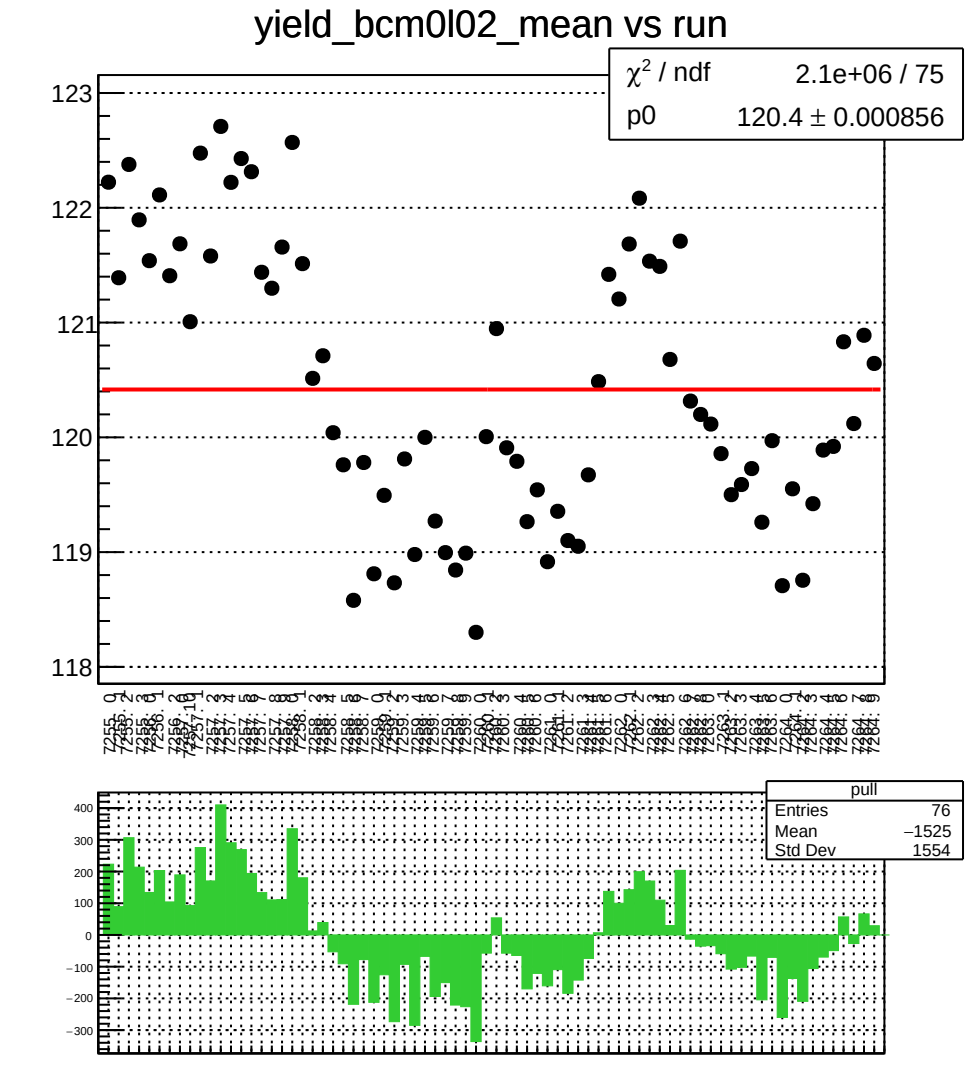

yield_cav4cQ_mean vs run
χ² / ndf 6.282e+06 / 75
p0 152.3 ± 0.0007176
154
153
152
151
150
149
148
147
pull
Entries 76
Mean −93.55
Std Dev 125.5
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

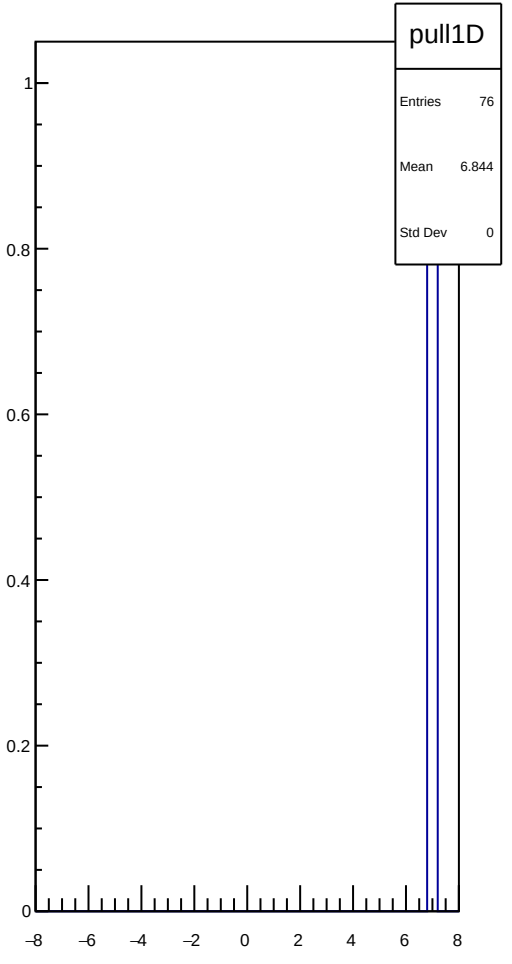

yield_cav4cQ_rms vs run
χ² / ndf 1.102e+05 / 75
p0 0.5925 ± 0.0005074
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4

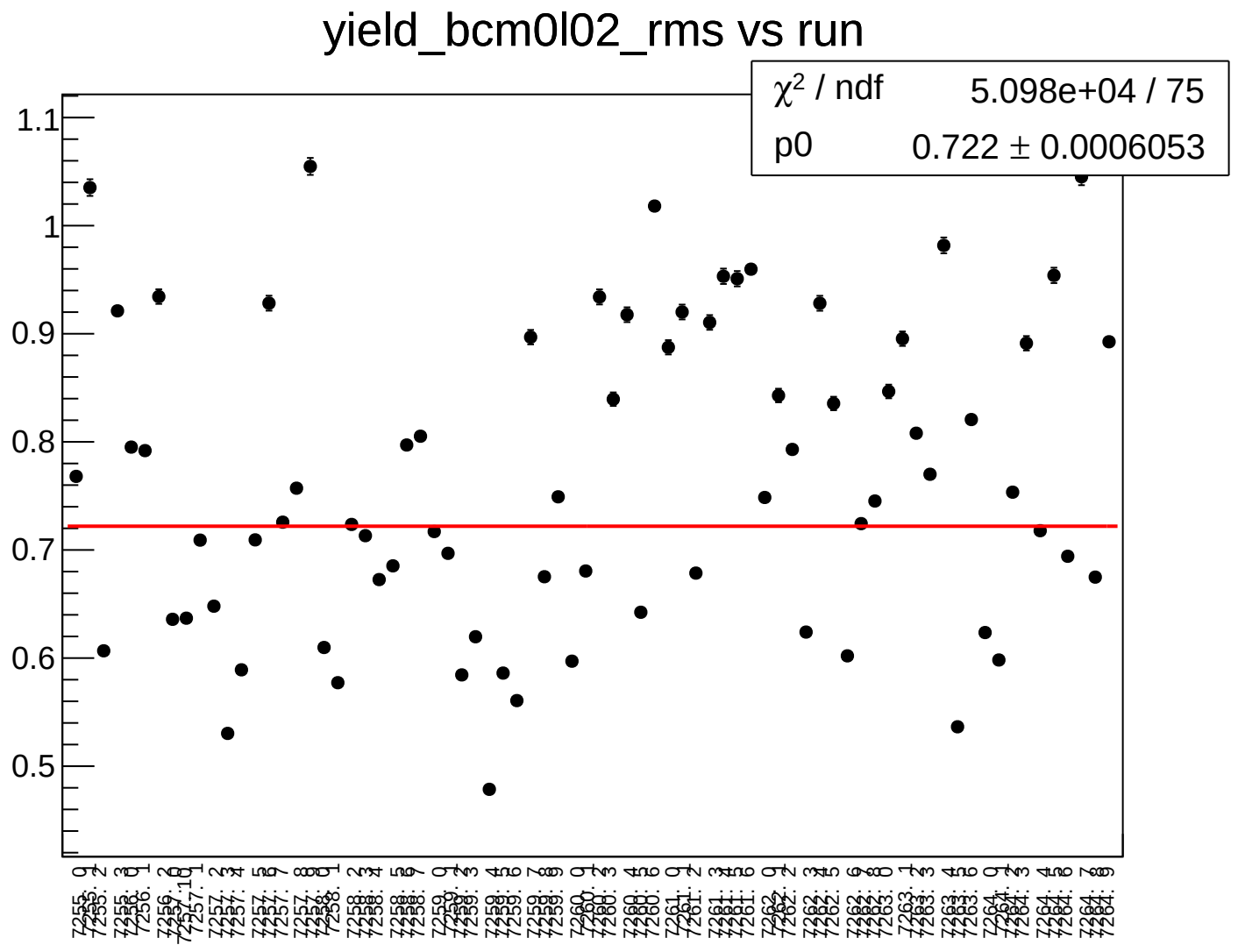

yield_cav4dQ_mean vs run
χ² / ndf 8.787e+05 / 75
p0 150.4 ± 0.0006924
151.5
151
150.5
150
149.5
149
pull
Entries 76
Mean −2.213e+04
Std Dev 2.216e+04
200
150
100
50
0
−50
−100
−150
−200
−250

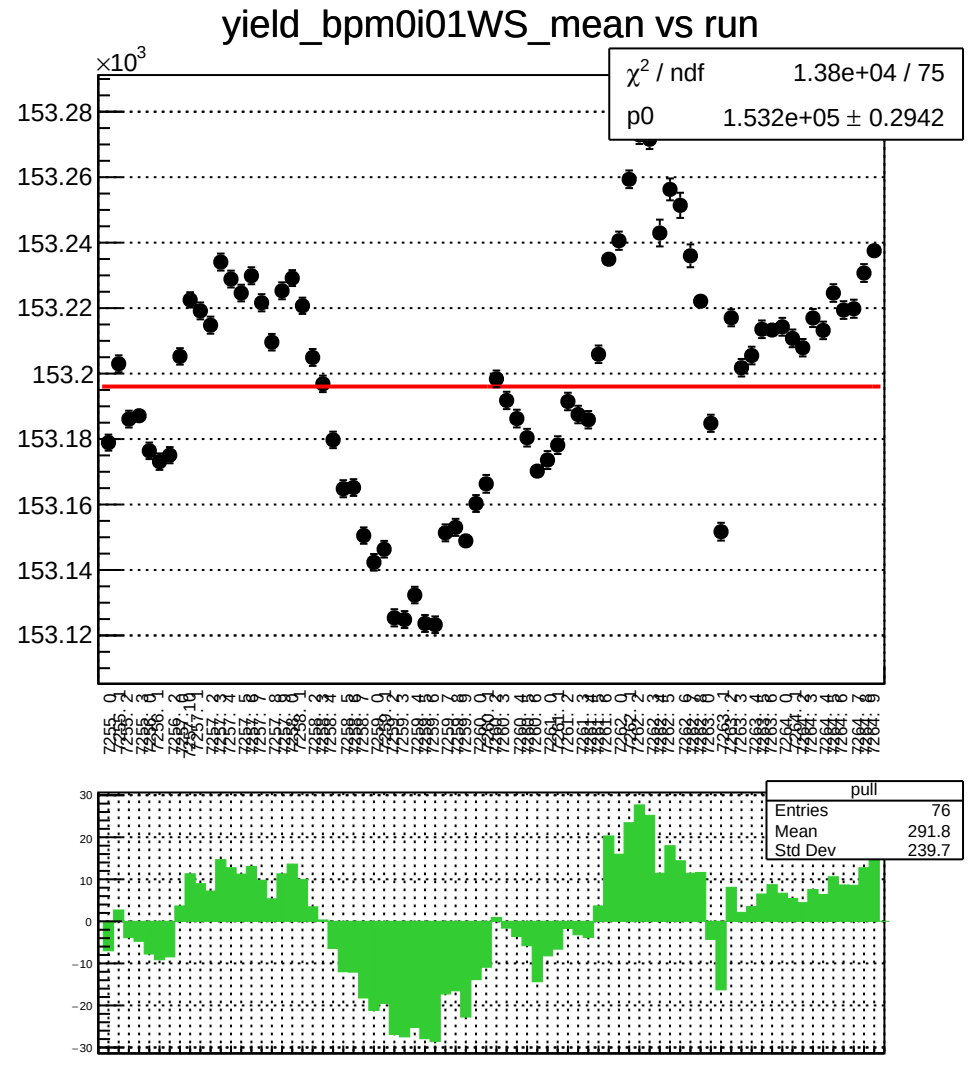

pull1D
Entries 76
Mean −0.1233
Std Dev 5.026
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

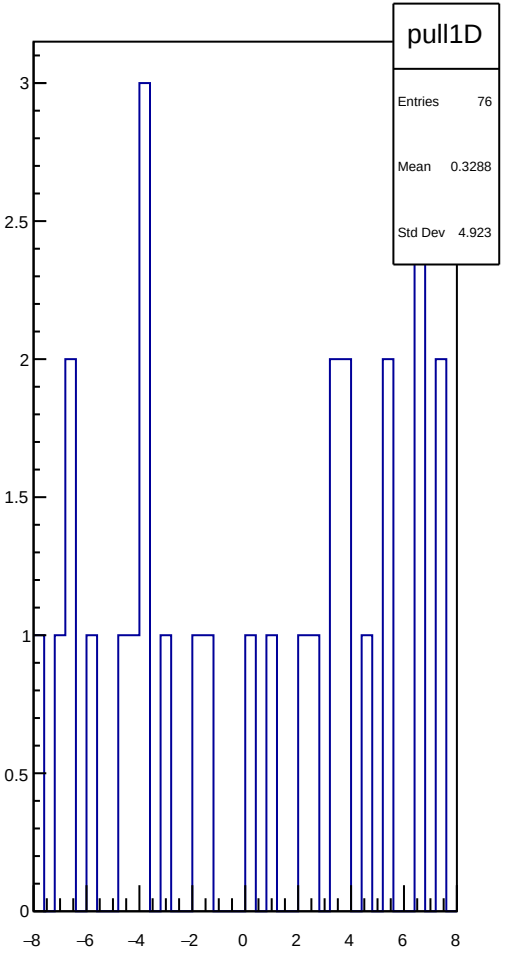

yield_cav4dQ_rms vs run
χ² / ndf 1.831e+04 / 75
p0 0.5906 ± 0.0004896
0.85
0.8
0.75
0.7
0.65
0.6
0.55
0.5
0.45

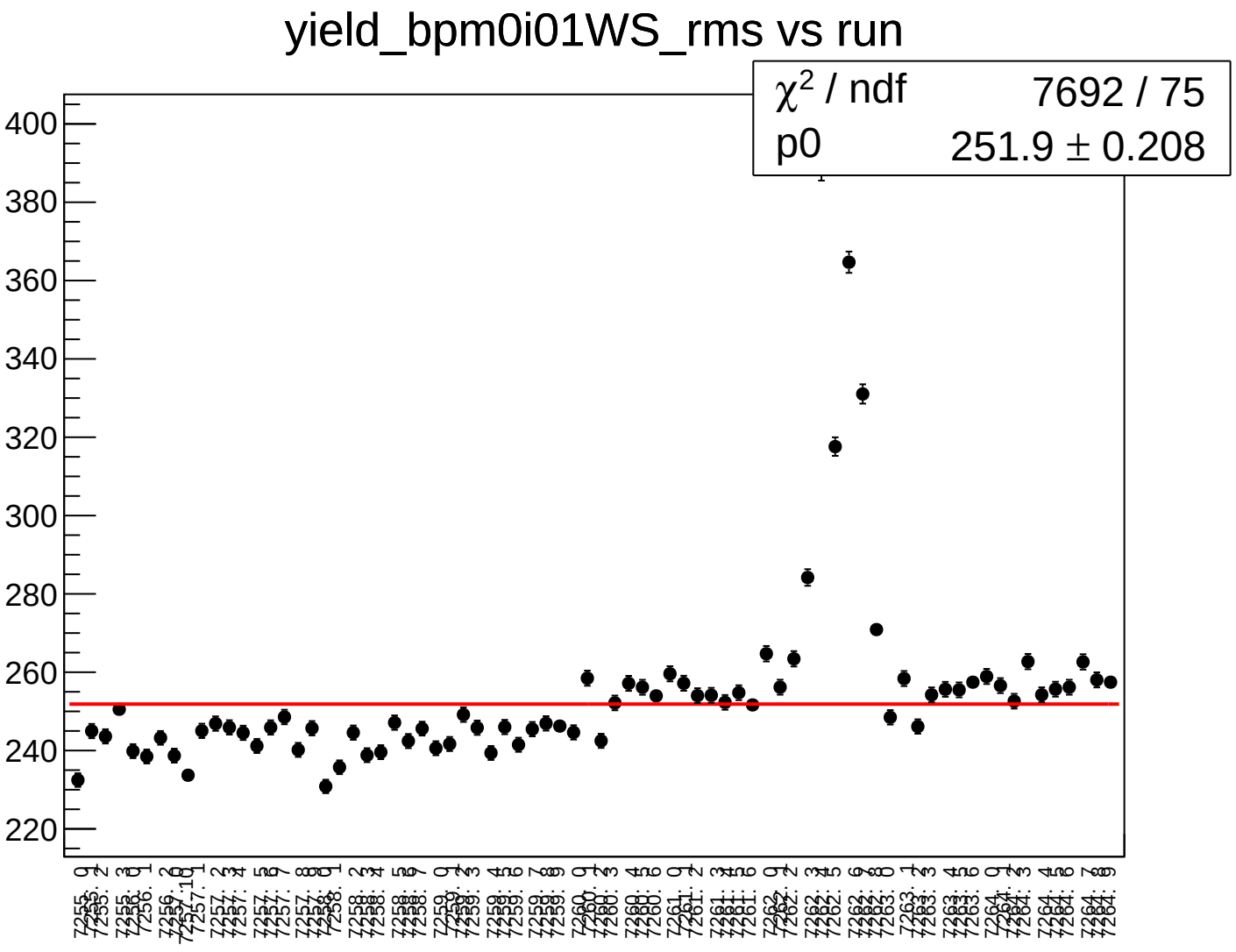

yield_bcm0l02_mean vs run
χ² / ndf 2.1e+06 / 75
p0 120.4 ± 0.000856
123
122
121
120
119
118
pull
Entries 76
Mean −1525
Std Dev 1554
400
300
200
100
0
−100
−200
−300

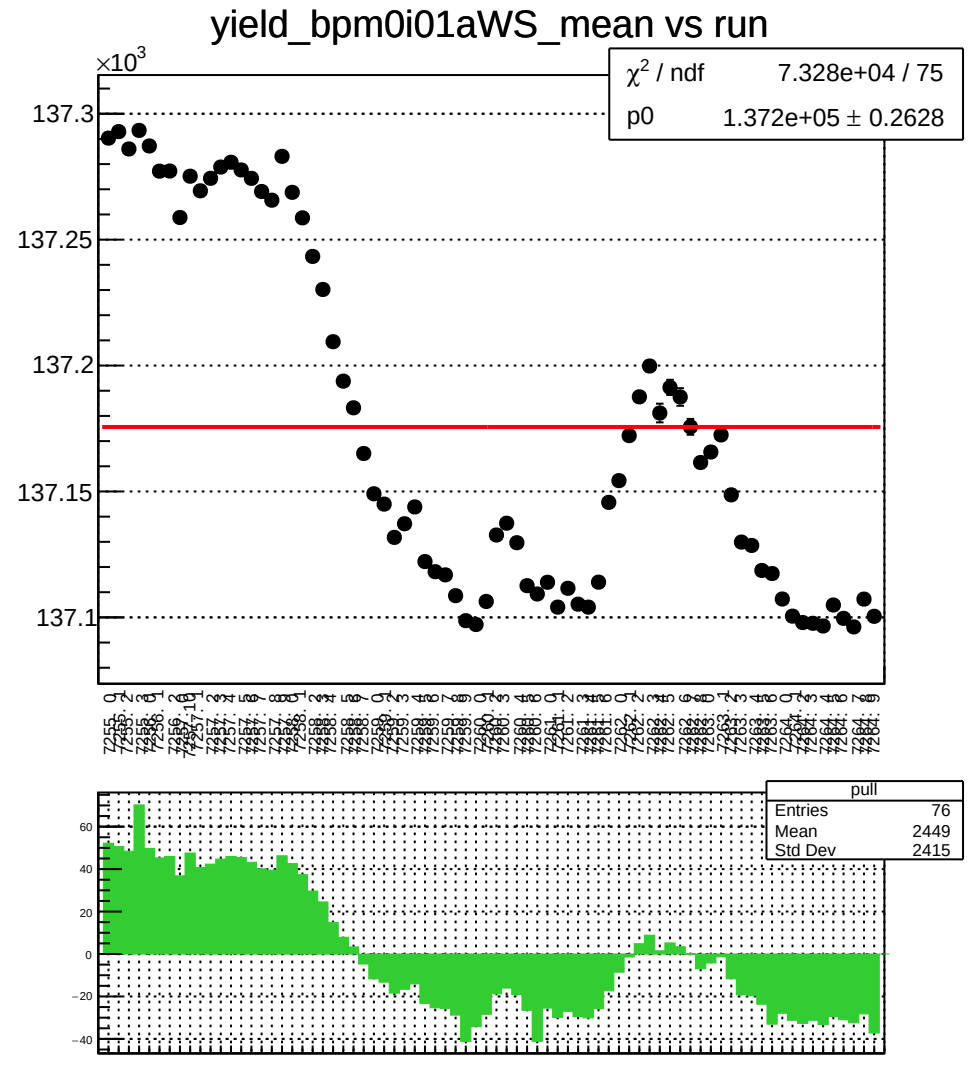

pull1D
Entries 76
Mean 6.844
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

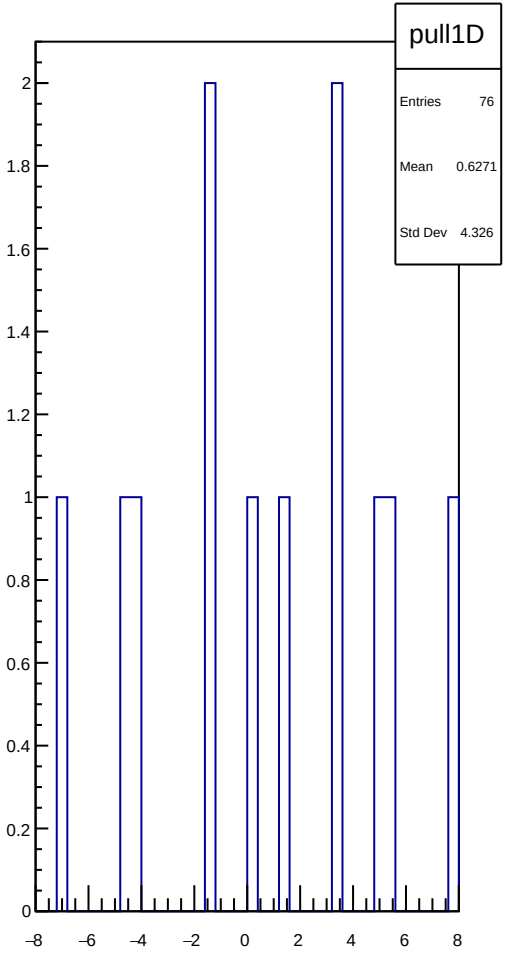

yield_bcm0l02_rms vs run
χ² / ndf 5.098e+04 / 75
p0 0.722 ± 0.0006053
1.1
1
0.9
0.8
0.7
0.6
0.5

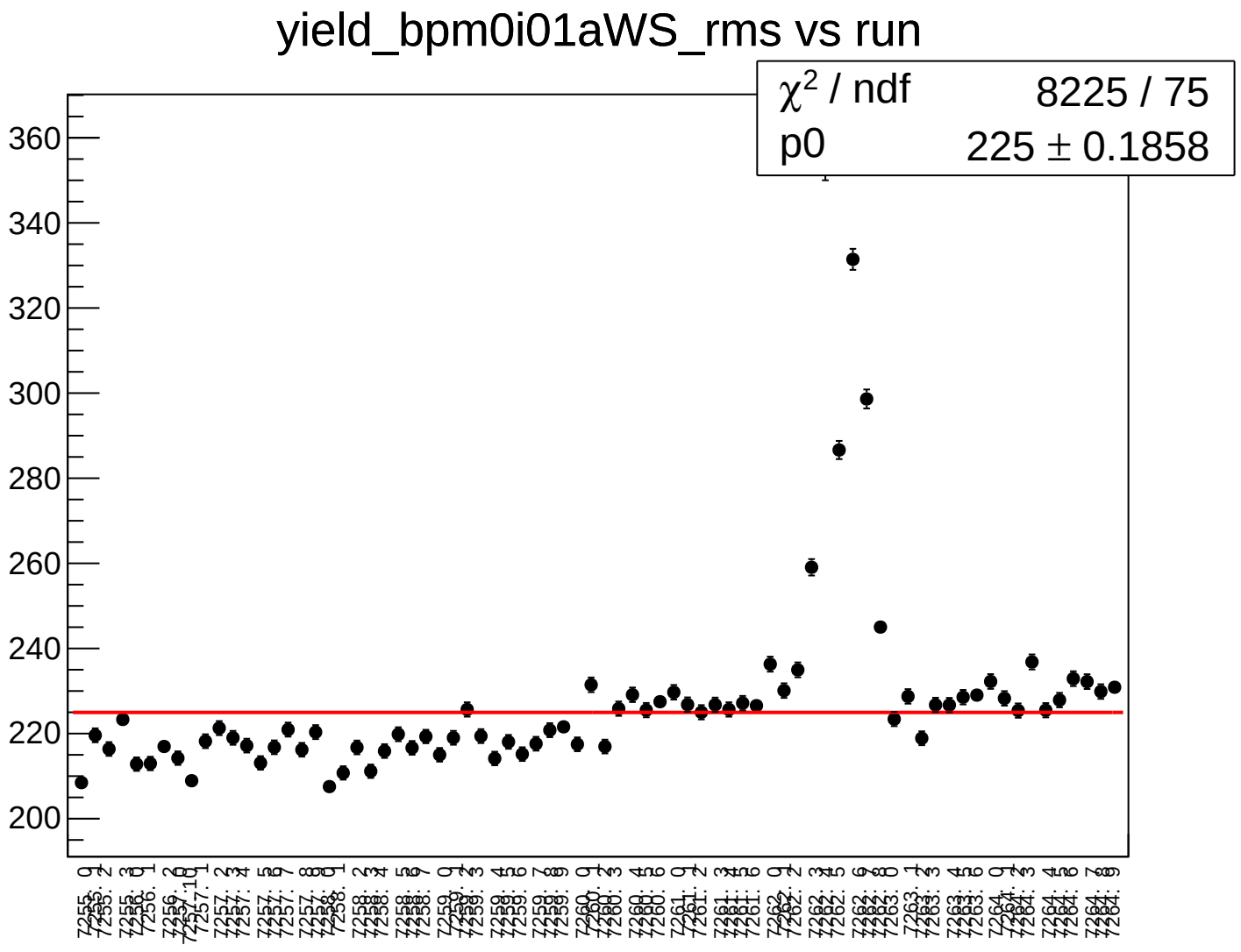

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.38e+04 / 75
p0 1.532e+05 ± 0.2942
153.28
153.26
153.24
153.22
153.2
153.18
153.16
153.14
153.12
pull
Entries 76
Mean 291.8
Std Dev 239.7
30
20
10
0
−10
−20
−30

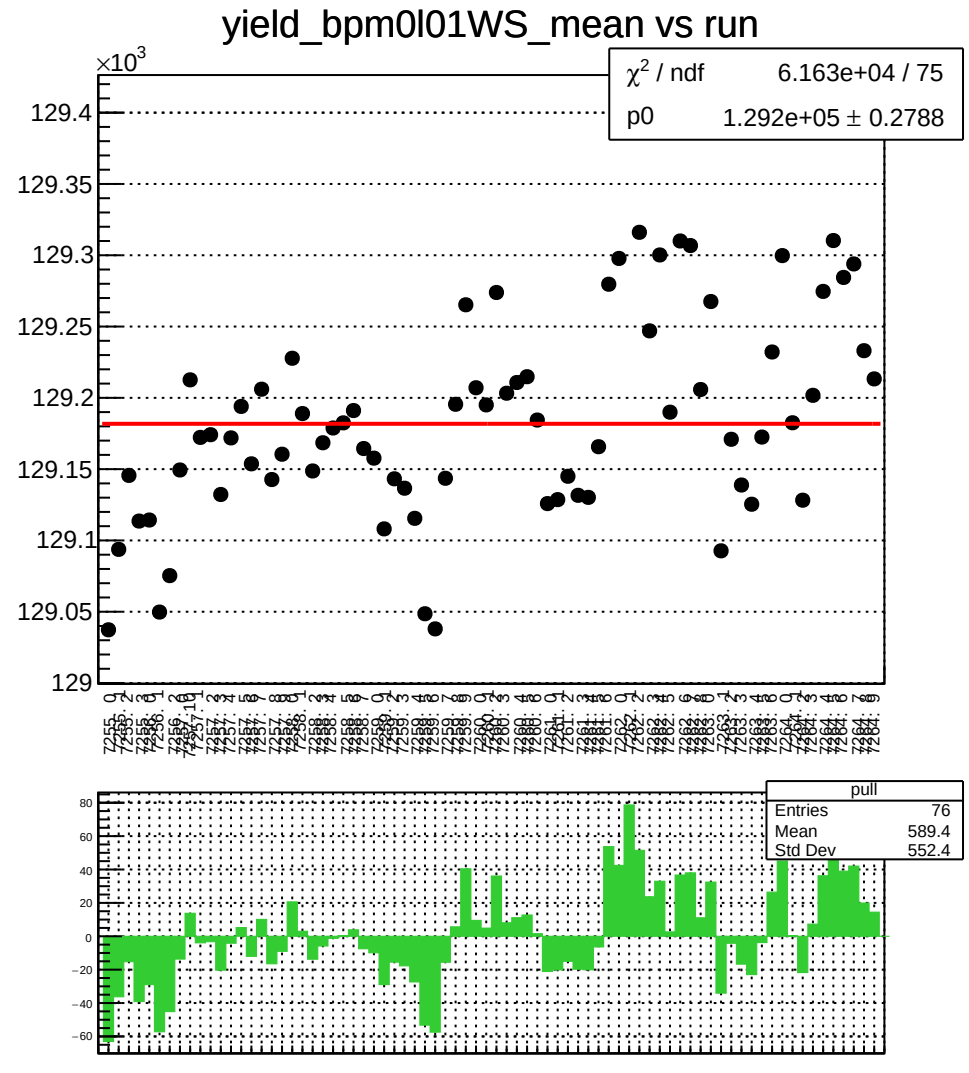

pull1D
Entries 76
Mean 0.3288
Std Dev 4.923
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

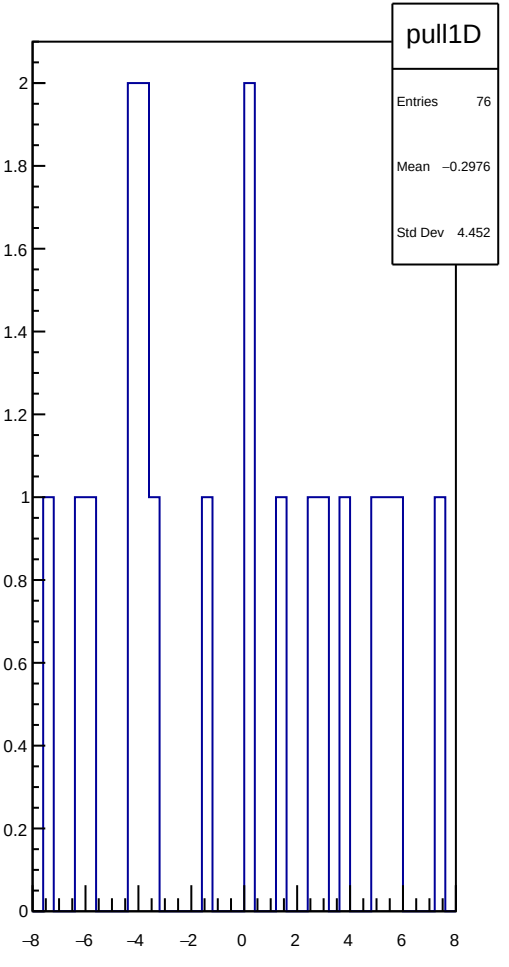

yield_bpm0i01WS_rms vs run
χ² / ndf 7692 / 75
p0 251.9 ± 0.208
400
380
360
340
320
300
280
260
240
220

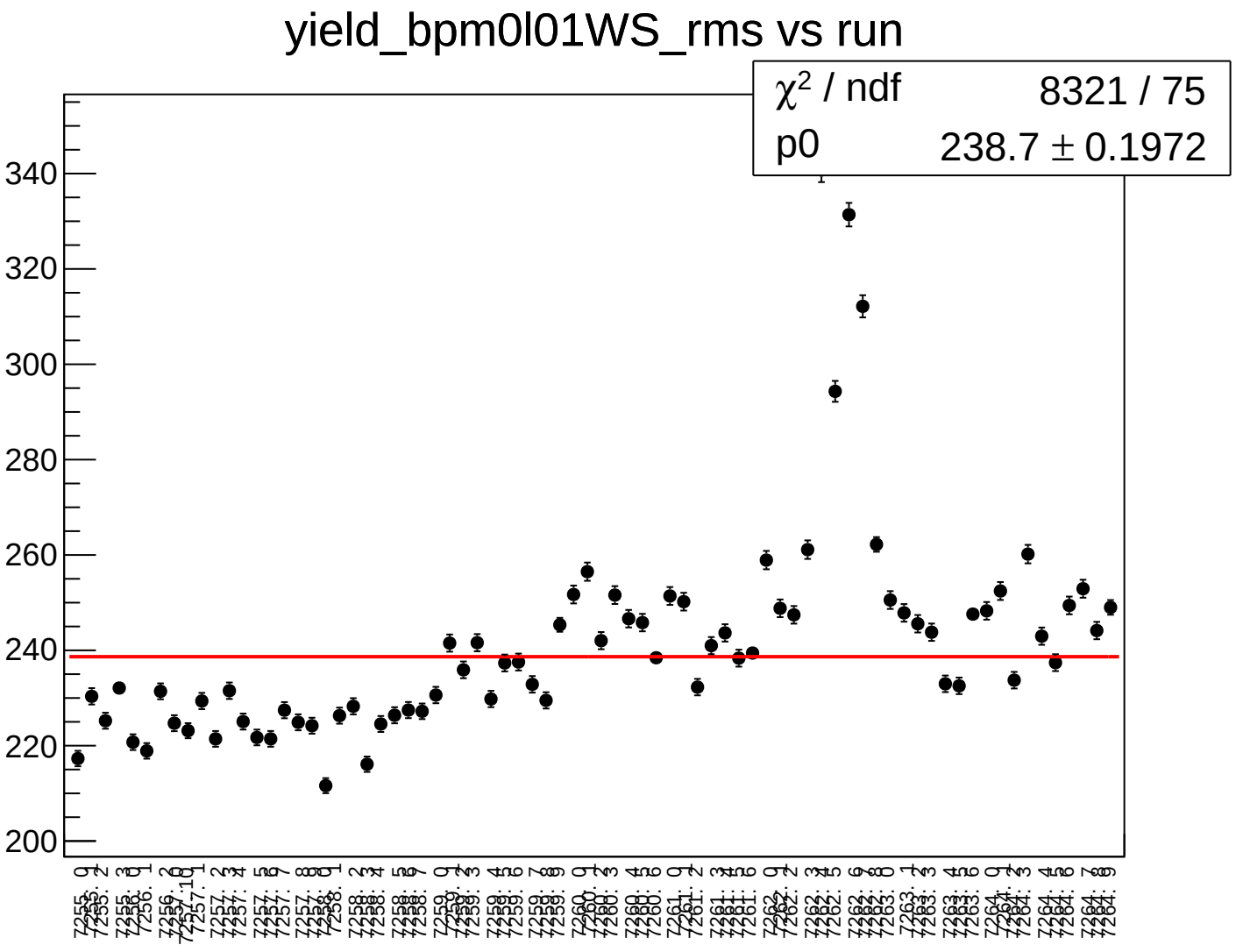

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 7.328e+04 / 75
p0 1.372e+05 ± 0.2628
137.3
137.25
137.2
137.15
137.1
pull
Entries 76
Mean 2449
Std Dev 2415
60
40
20
0
−20
−40

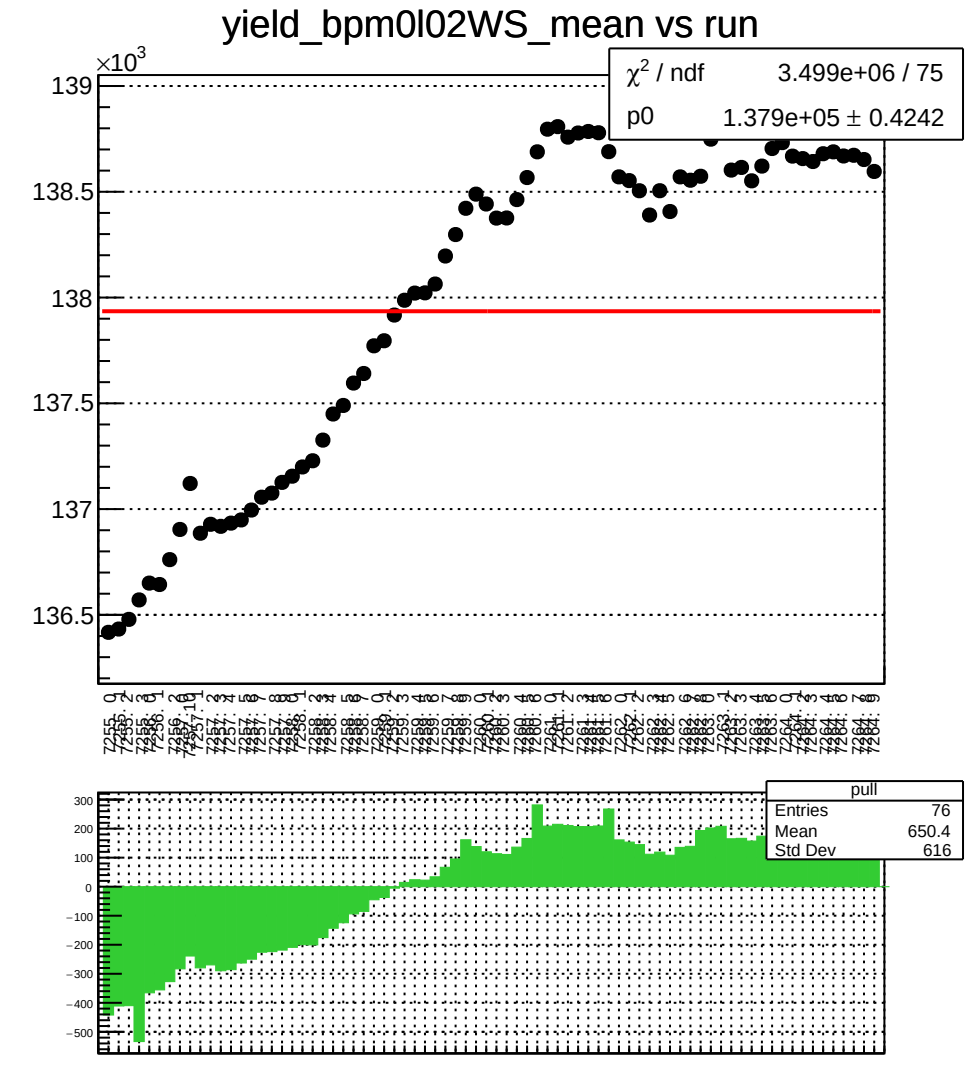

pull1D
Entries 76
Mean 0.6271
Std Dev 4.326
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

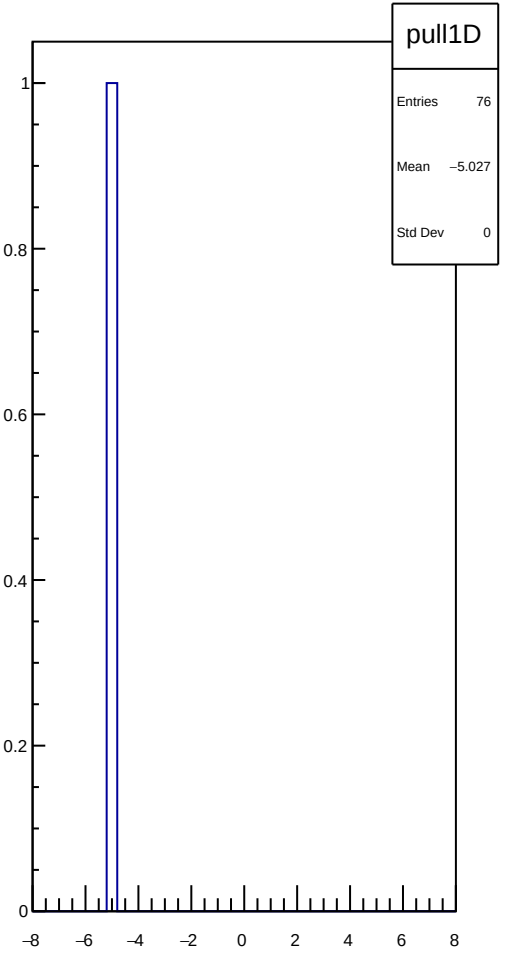

yield_bpm0i01aWS_rms vs run
χ² / ndf 8225 / 75
p0 225 ± 0.1858
360
340
320
300
280
260
240
220
200

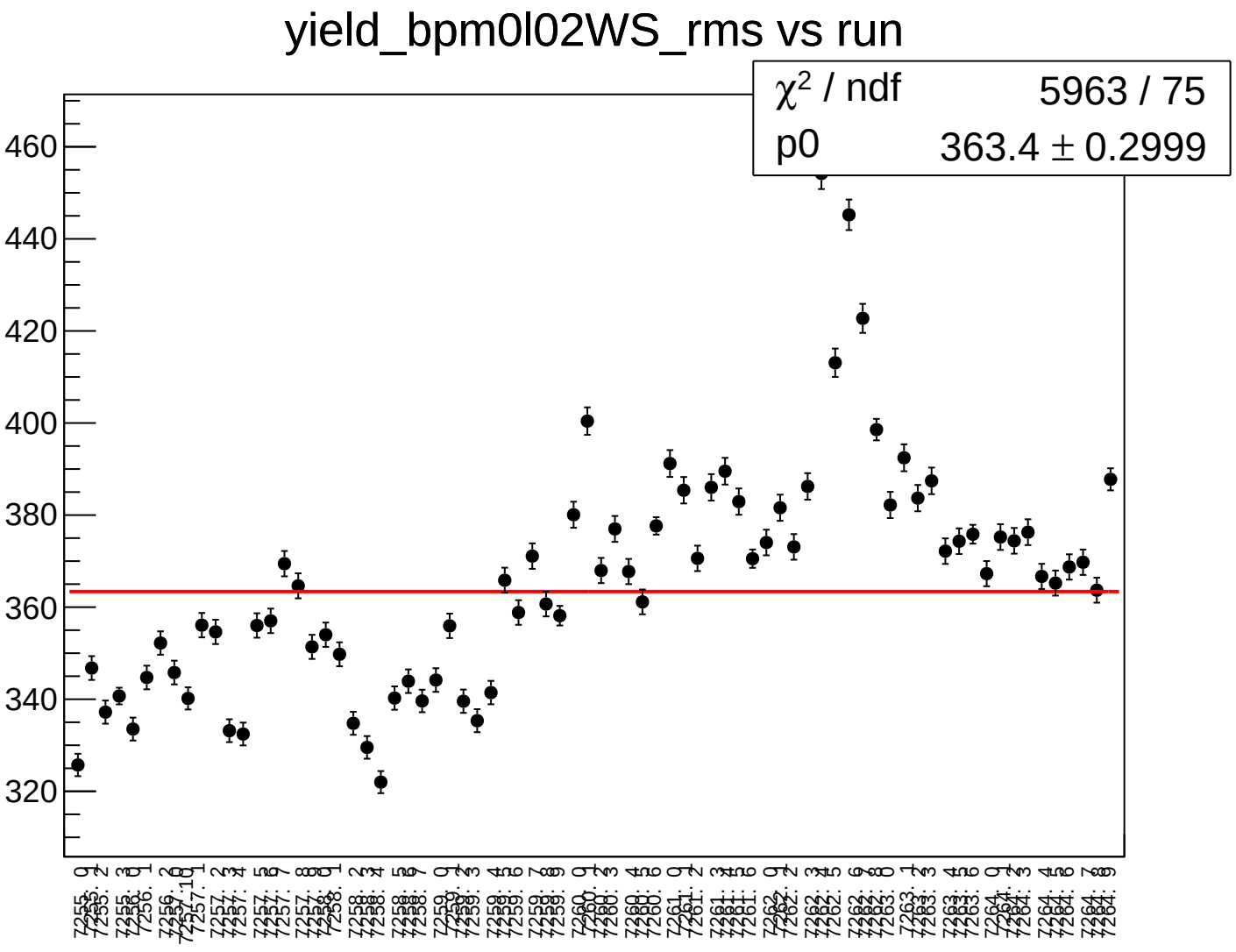

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.163e+04 / 75
p0 1.292e+05 ± 0.2788
129.4
129.35
129.3
129.25
129.2
129.15
129.1
129.05
129
pull
Entries 76
Mean 589.4
Std Dev 552.4
80
60
40
20
0
−20
−40
−60

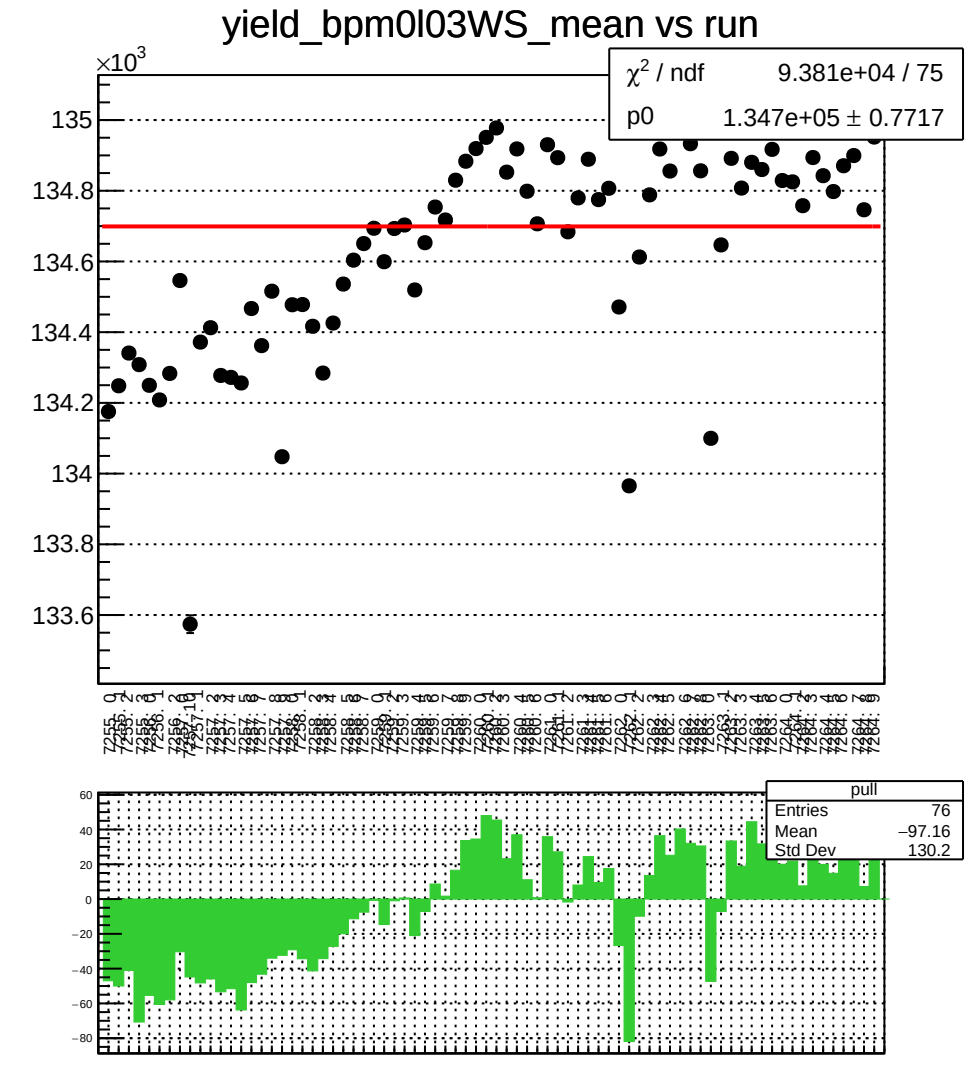

pull1D
Entries 76
Mean −0.2976
Std Dev 4.452
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

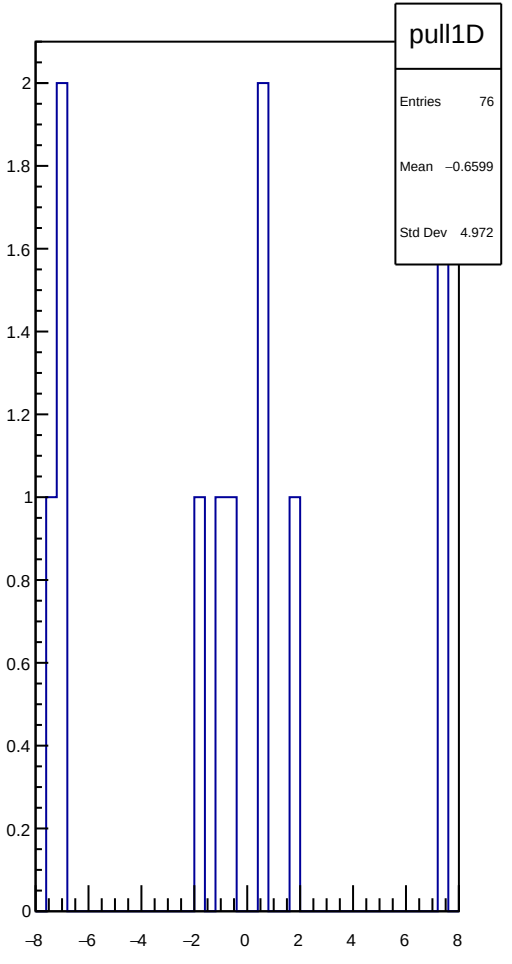

yield_bpm0l01WS_rms vs run
χ² / ndf 8321 / 75
p0 238.7 ± 0.1972
340
320
300
280
260
240
220
200

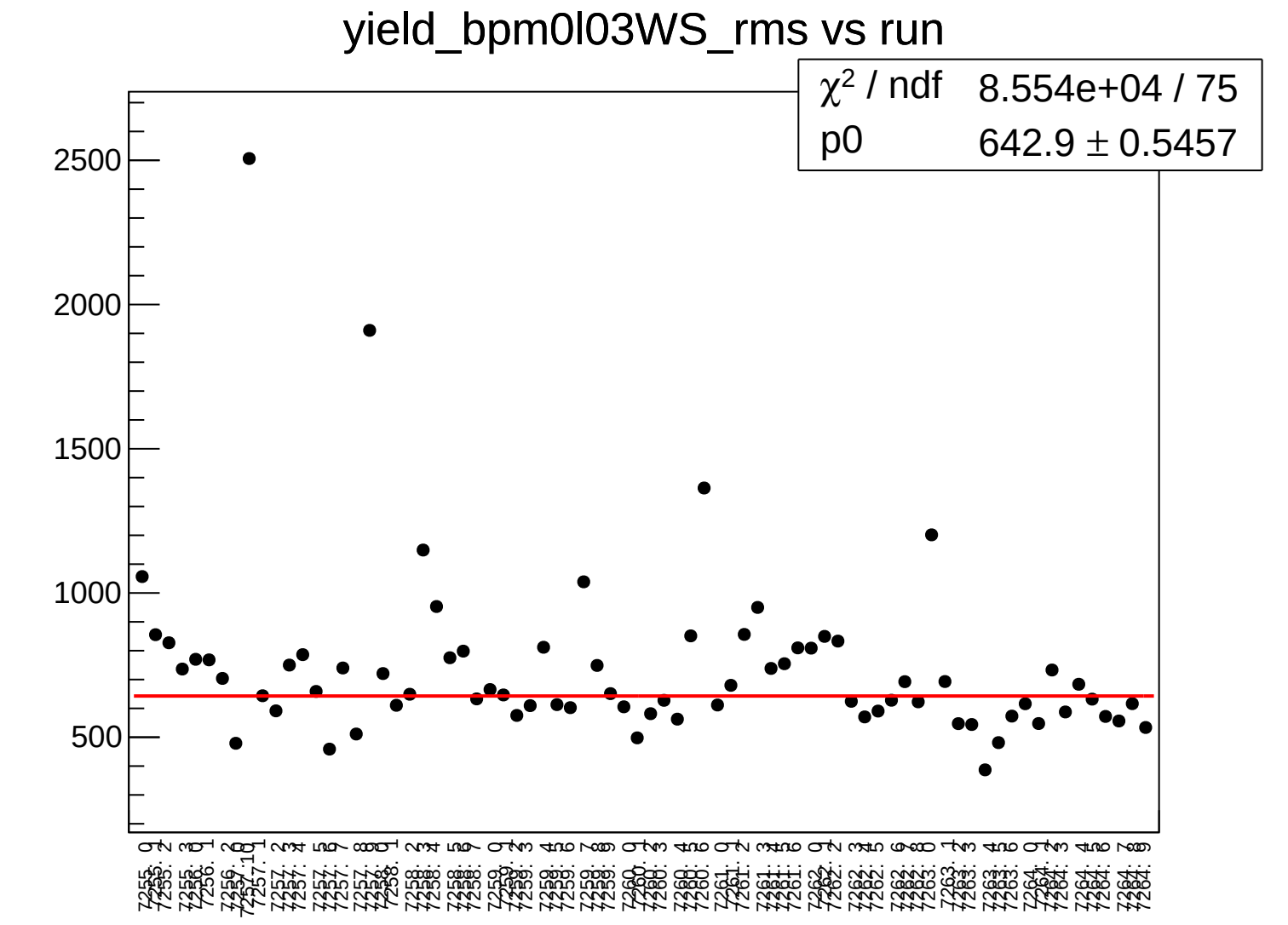

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.499e+06 / 75
p0 1.379e+05 ± 0.4242
139
138.5
138
137.5
137
136.5
pull
Entries 76
Mean 650.4
Std Dev 616
300
200
100
0
−100
−200
−300
−400
−500

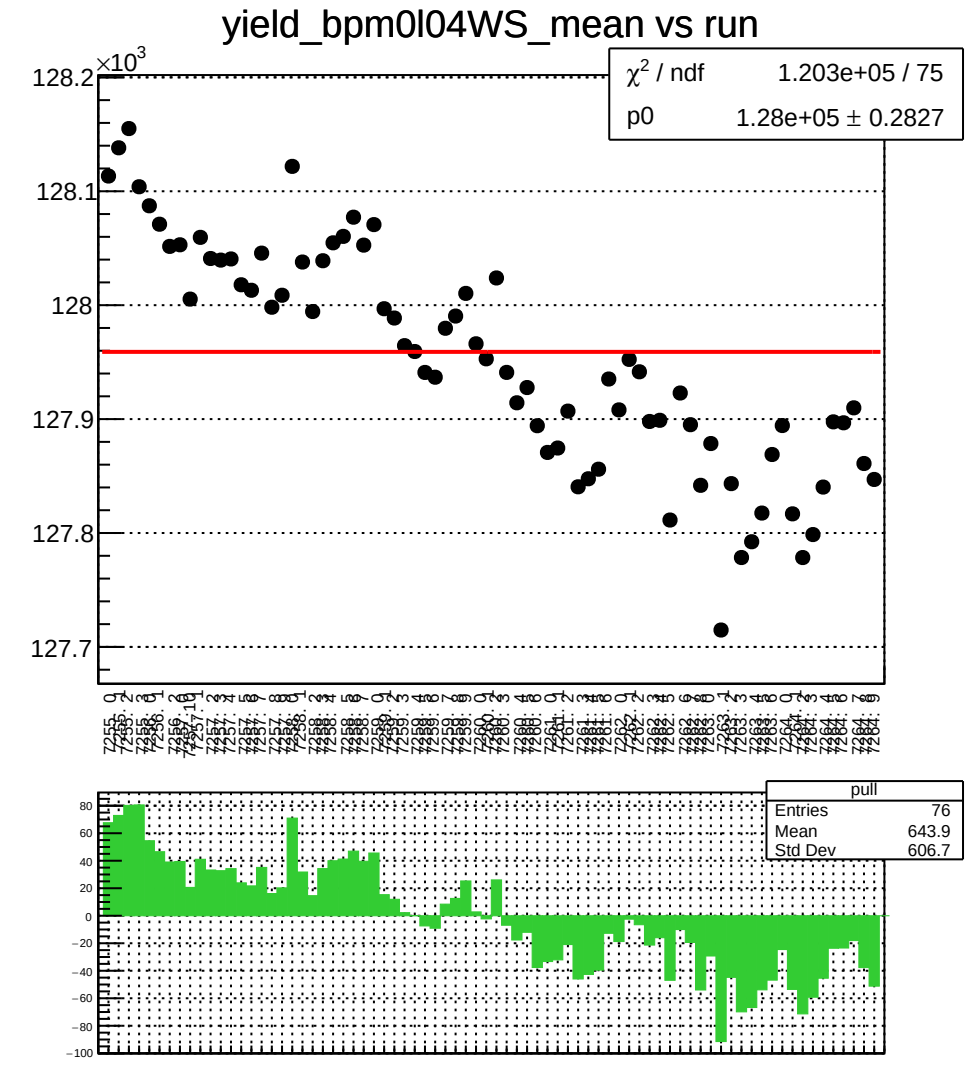

pull1D
Entries 76
Mean −5.027
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

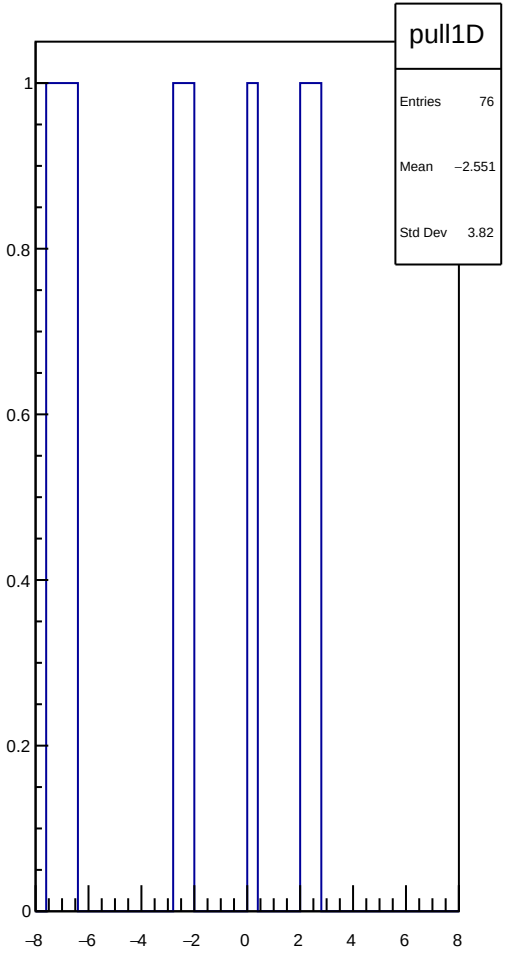

yield_bpm0l02WS_rms vs run
χ² / ndf 5963 / 75
p0 363.4 ± 0.2999
460
440
420
400
380
360
340
320

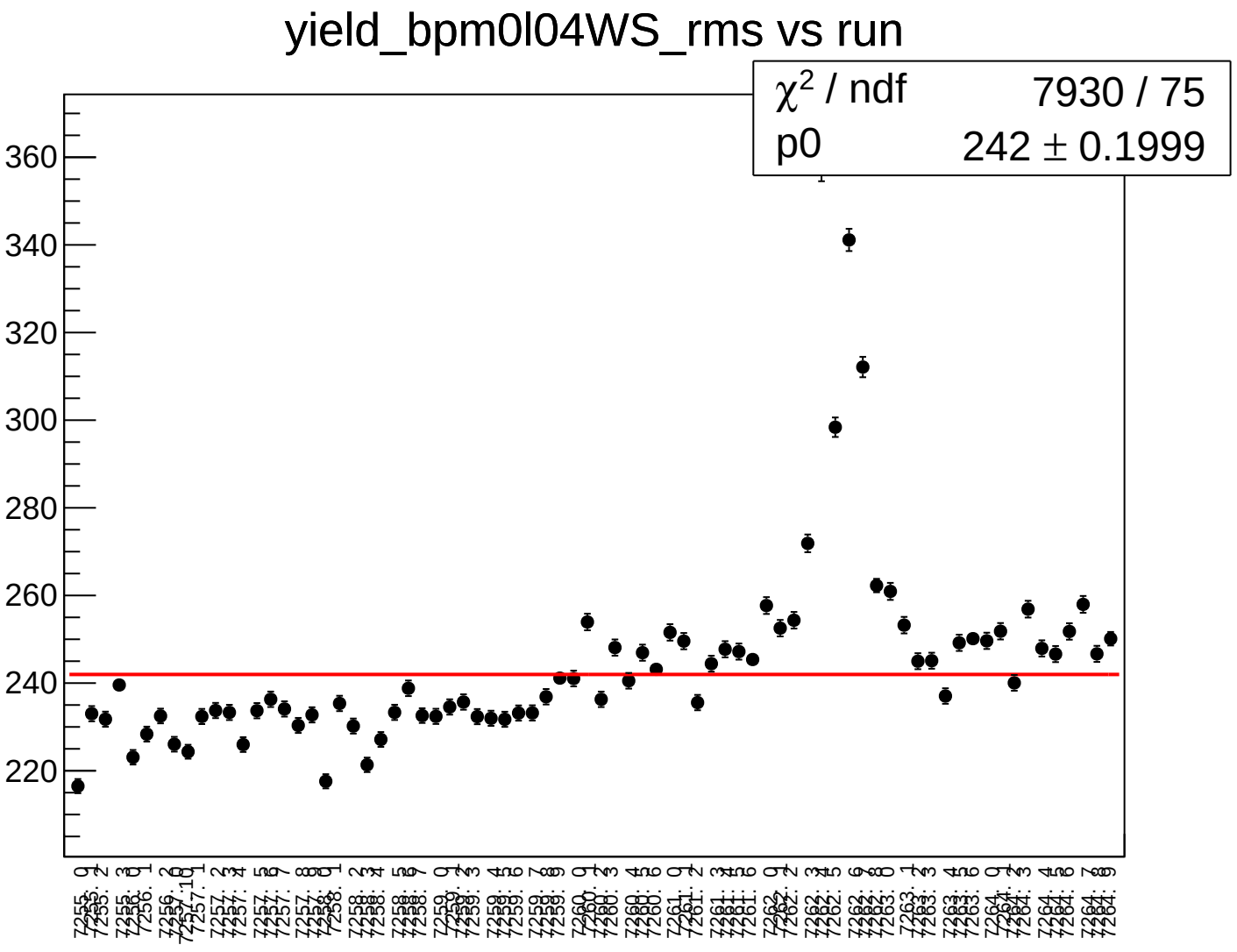

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 9.381e+04 / 75
p0 1.347e+05 ± 0.7717
135
134.8
134.6
134.4
134.2
134
133.8
133.6
pull
Entries 76
Mean −97.16
Std Dev 130.2
60
40
20
0
−20
−40
−60
−80

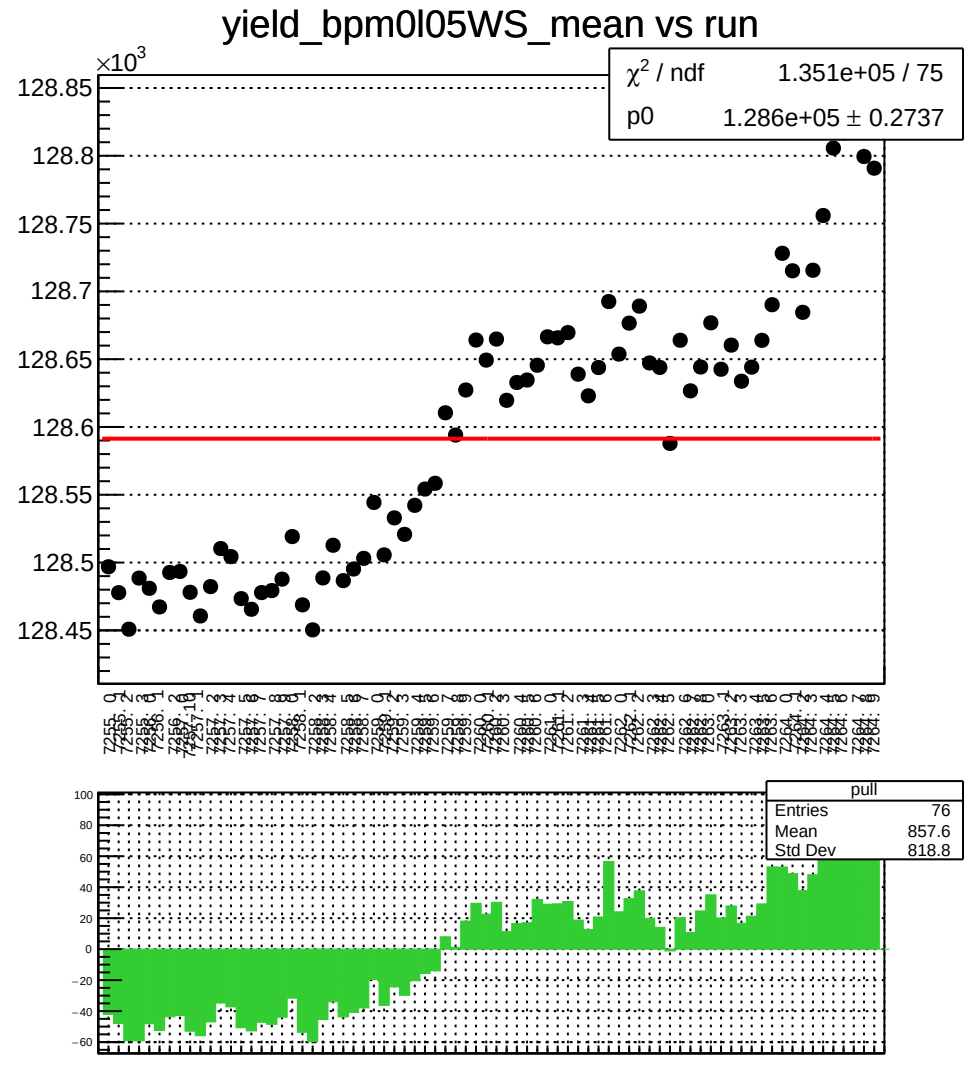

pull1D
Entries 76
Mean −0.6599
Std Dev 4.972
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

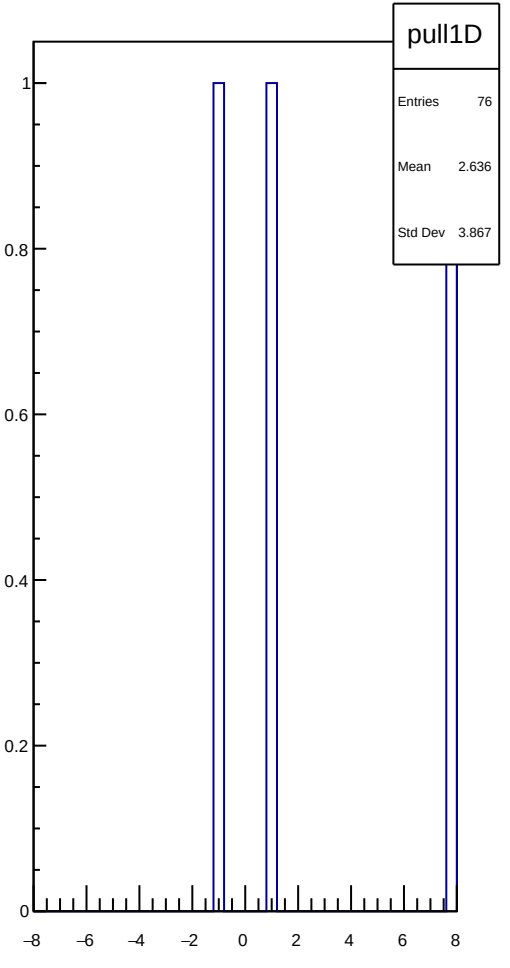

yield_bpm0l03WS_rms vs run
χ² / ndf 8.554e+04 / 75
p0 642.9 ± 0.5457
2500
2000
1500
1000
500

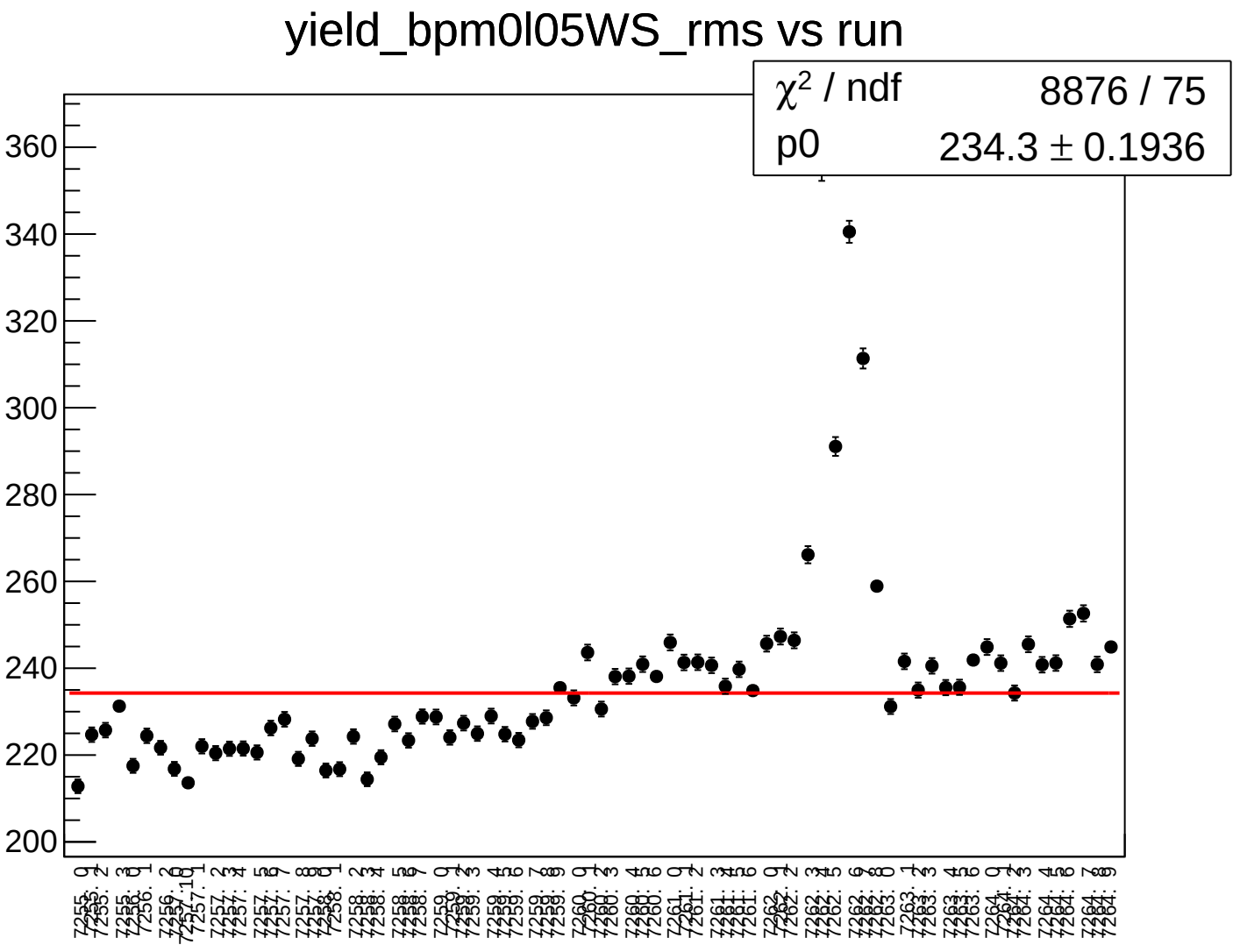

yield_bpm0l04WS_mean vs run
χ² / ndf 1.203e+05 / 75
p0 1.28e+05 ± 0.2827
×10³
128.2
128.1
128
127.9
127.8
127.7
pull
Entries 76
Mean 643.9
Std Dev 606.7
80
60
40
20
0
−20
−40
−60
−80
−100

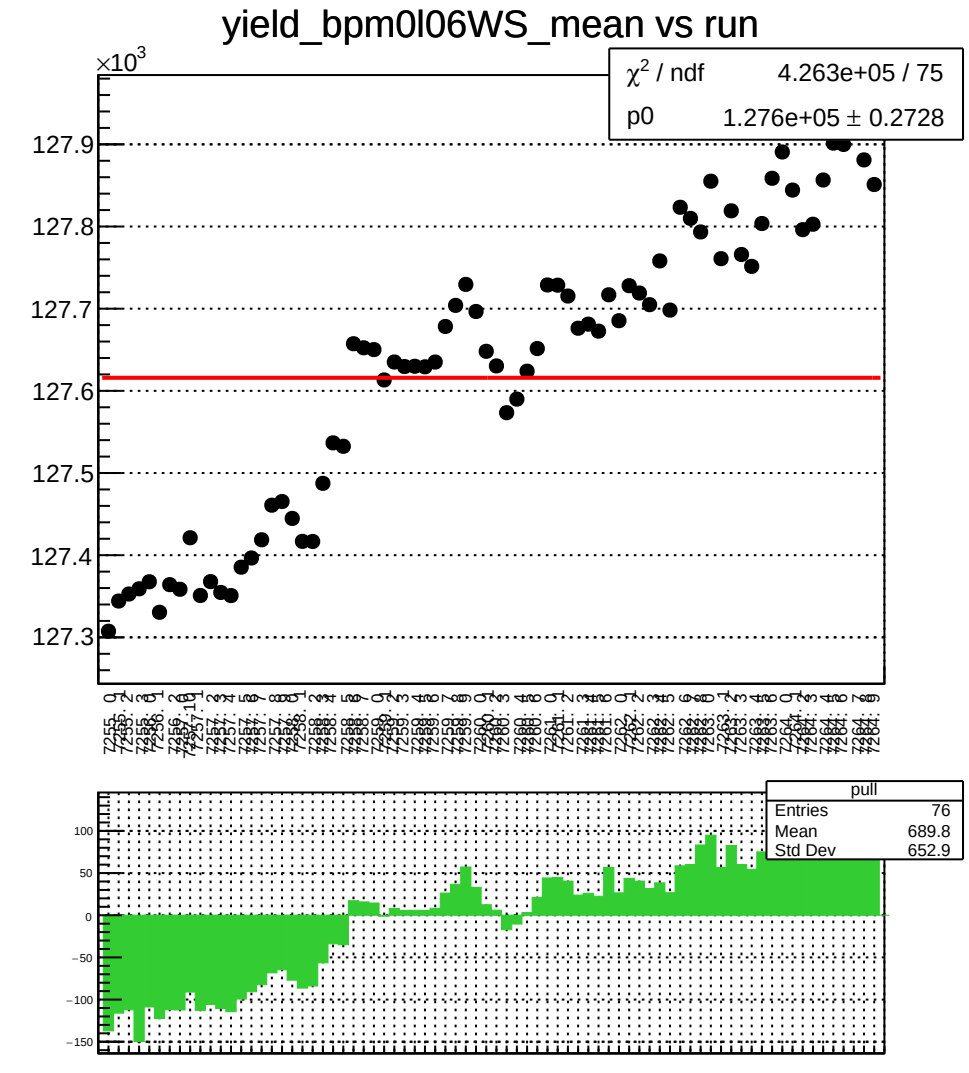

pull1D
Entries 76
Mean −2.551
Std Dev 3.82
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

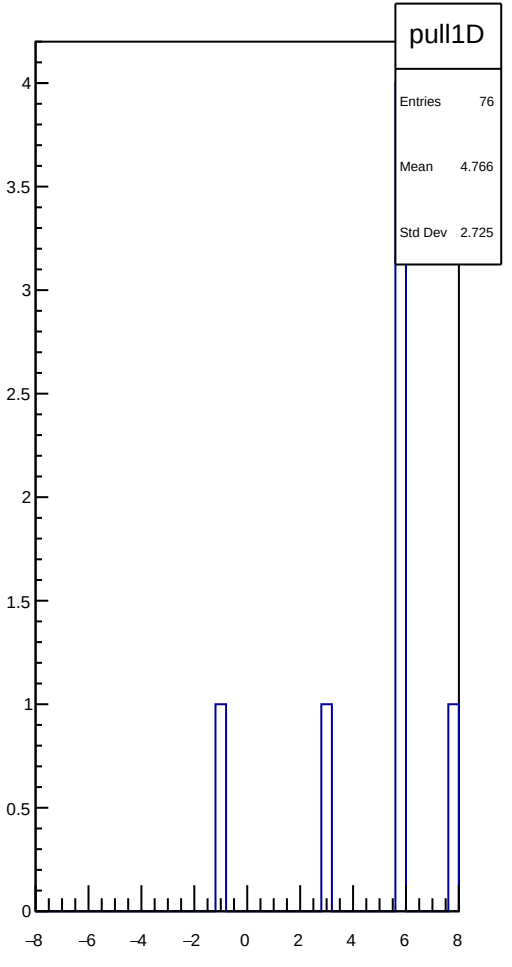

yield_bpm0l04WS_rms vs run
χ² / ndf 7930 / 75
p0 242 ± 0.1999
360
340
320
300
280
260
240
220

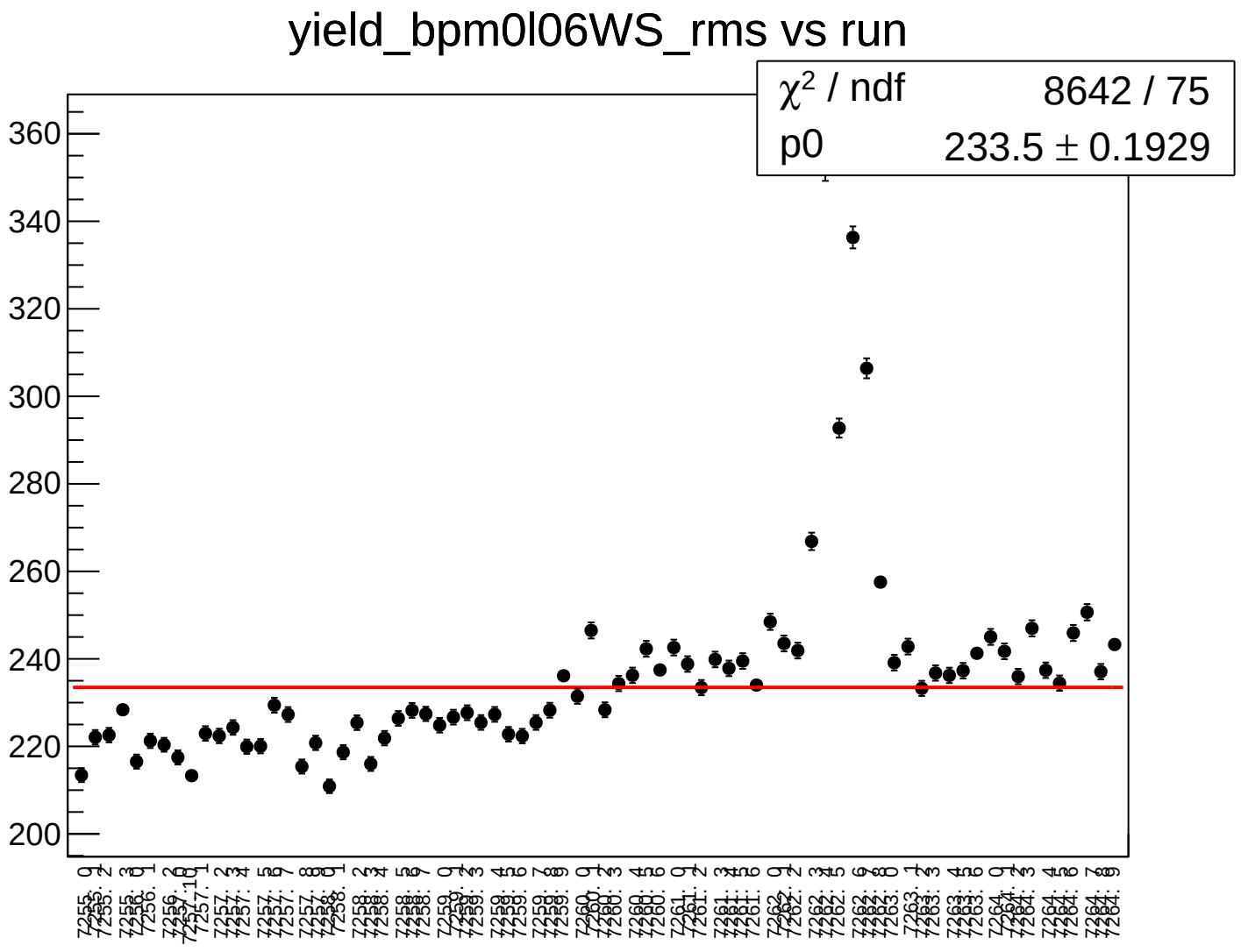

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.351e+05 / 75
p0 1.286e+05 ± 0.2737
128.85
128.8
128.75
128.7
128.65
128.6
128.55
128.5
128.45
pull
Entries 76
Mean 857.6
Std Dev 818.8
100
80
60
40
20
0
−20
−40
−60

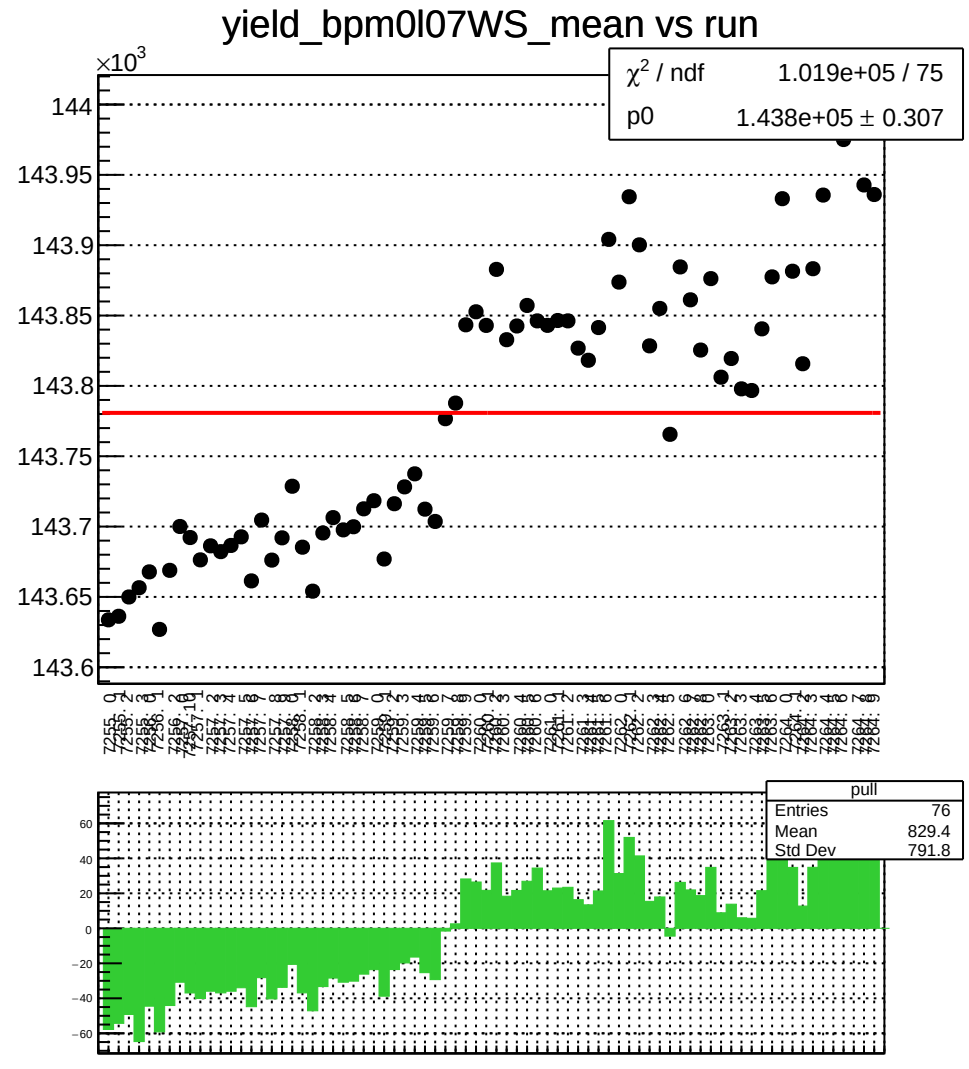

pull1D
Entries 76
Mean 2.636
Std Dev 3.867
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

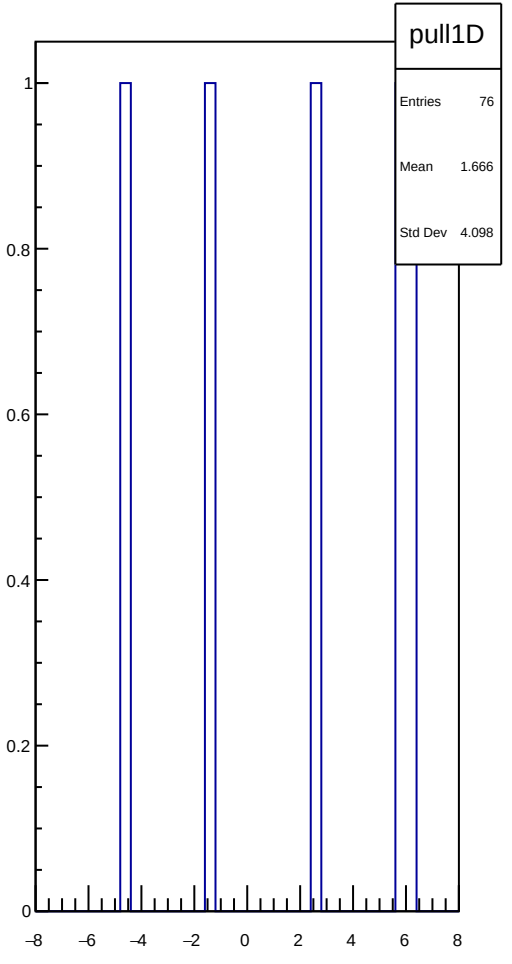

yield_bpm0l05WS_rms vs run
χ² / ndf 8876 / 75
p0 234.3 ± 0.1936
360
340
320
300
280
260
240
220
200

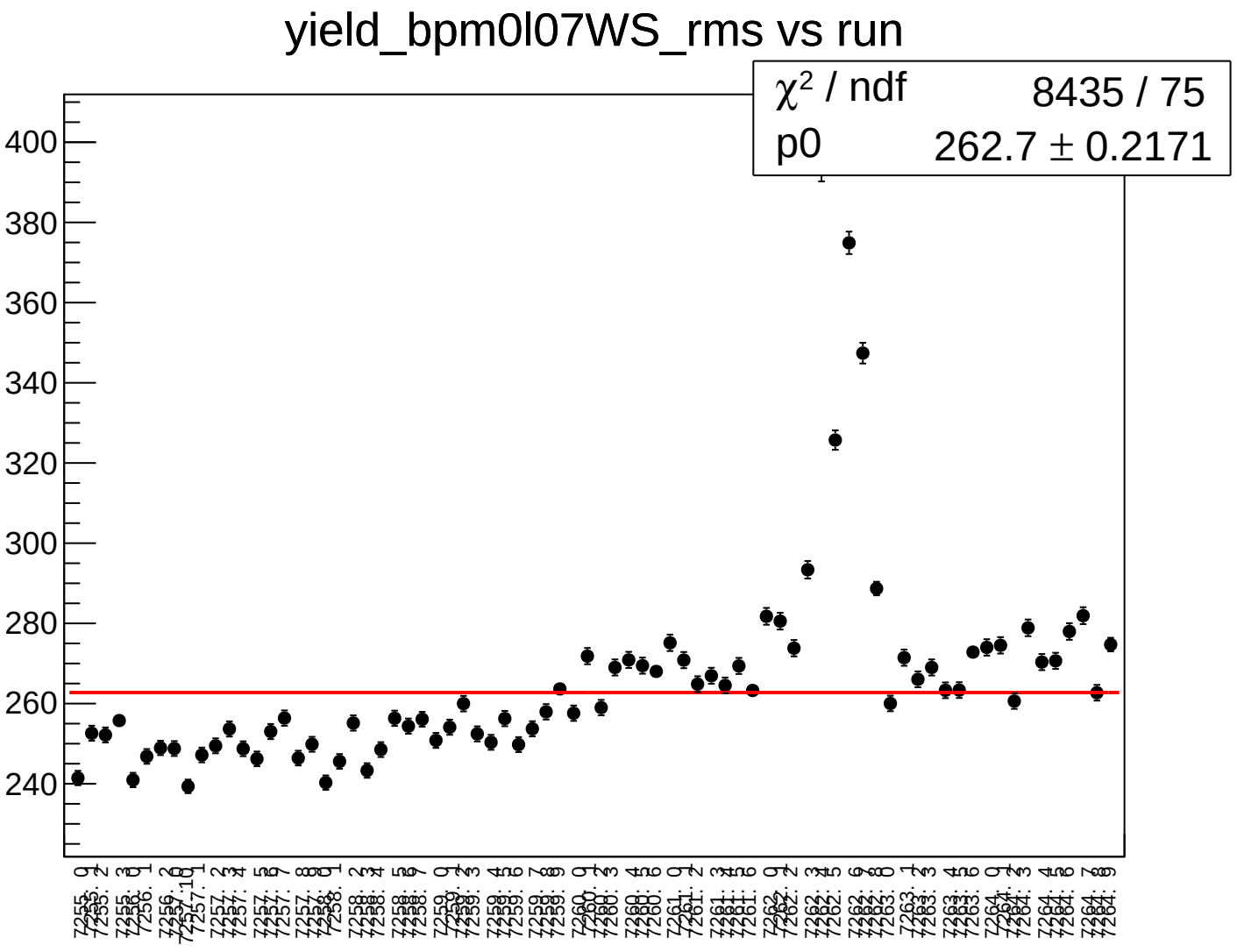

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 4.263e+05 / 75
p0 1.276e+05 ± 0.2728
127.9
127.8
127.7
127.6
127.5
127.4
127.3
pull
Entries 76
Mean 689.8
Std Dev 652.9
100
50
0
−50
−100
−150

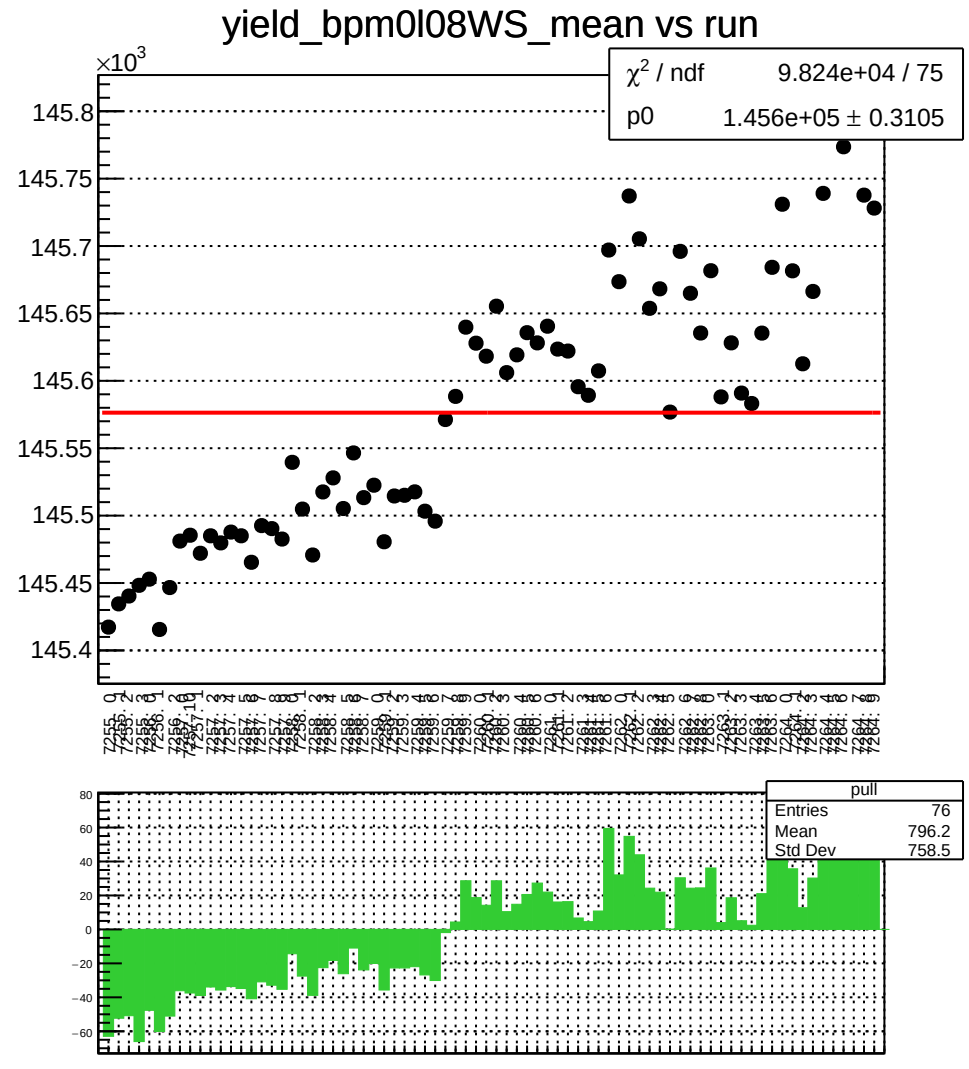

pull1D
Entries 76
Mean 4.766
Std Dev 2.725
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

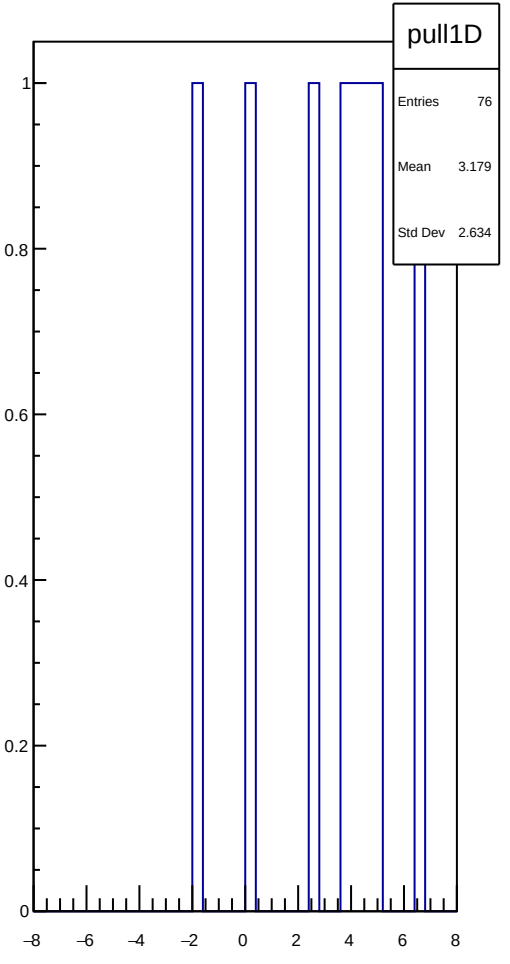

yield_bpm0l06WS_rms vs run
χ² / ndf 8642 / 75
p0 233.5 ± 0.1929
360
340
320
300
280
260
240
220
200

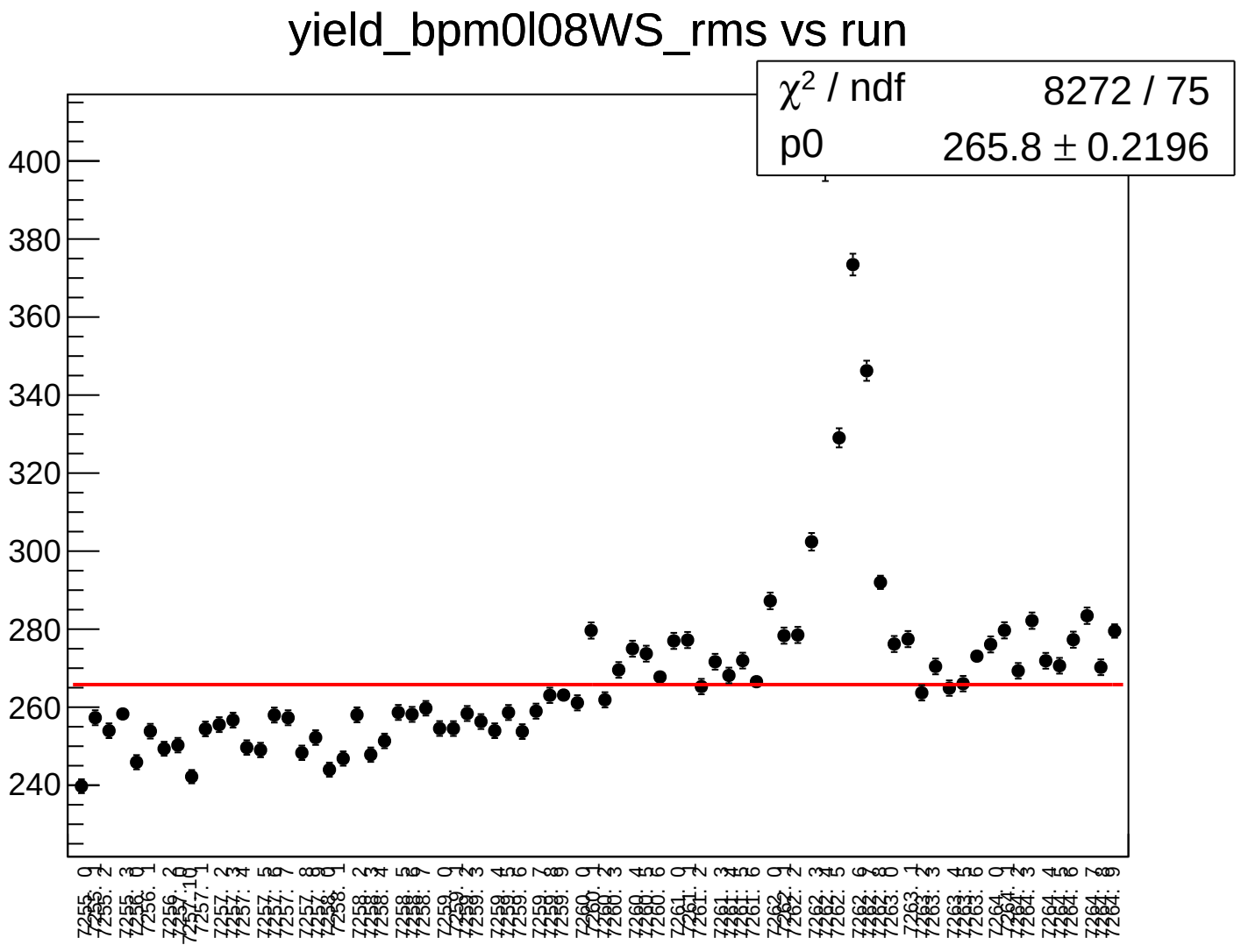

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.019e+05 / 75
p0 1.438e+05 ± 0.307
144
143.95
143.9
143.85
143.8
143.75
143.7
143.65
143.6
pull
Entries 76
Mean 829.4
Std Dev 791.8
60
40
20
0
−20
−40
−60

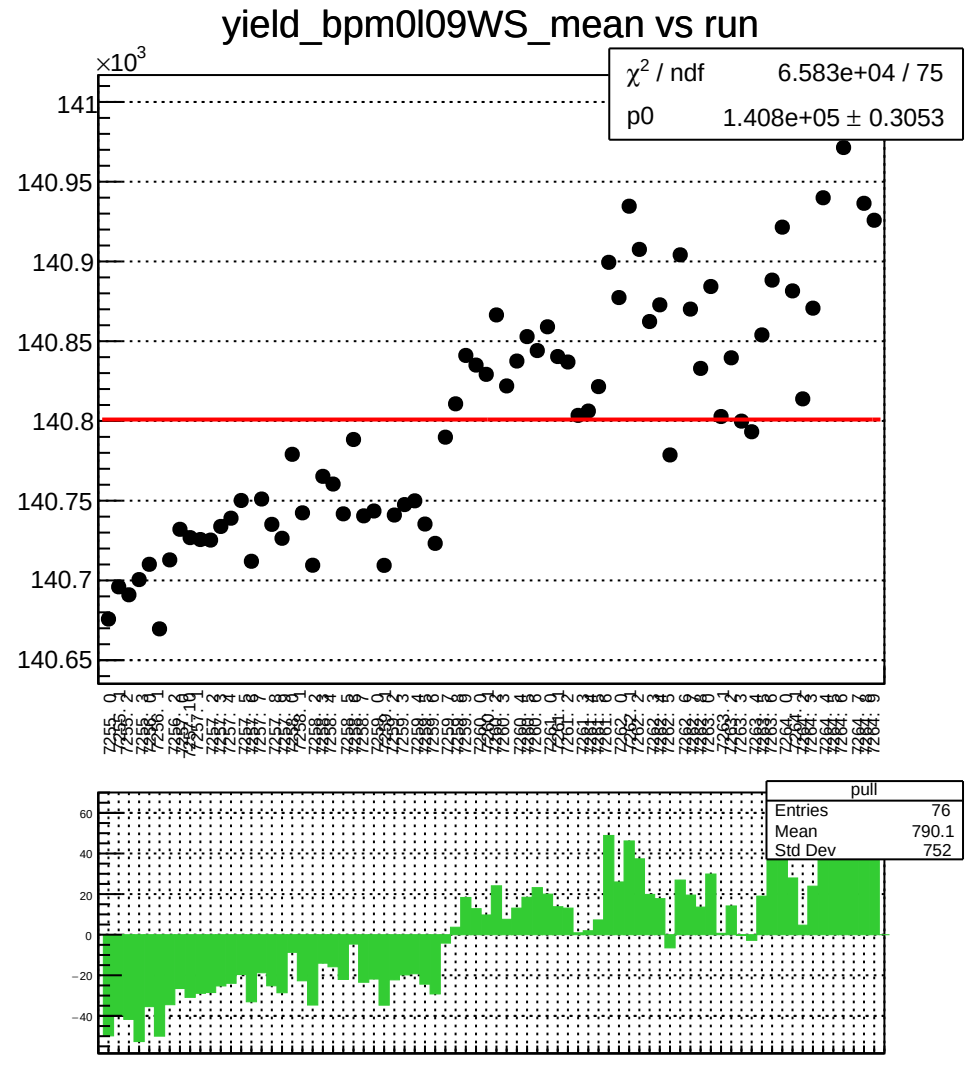

pull1D
Entries 76
Mean 1.666
Std Dev 4.098
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

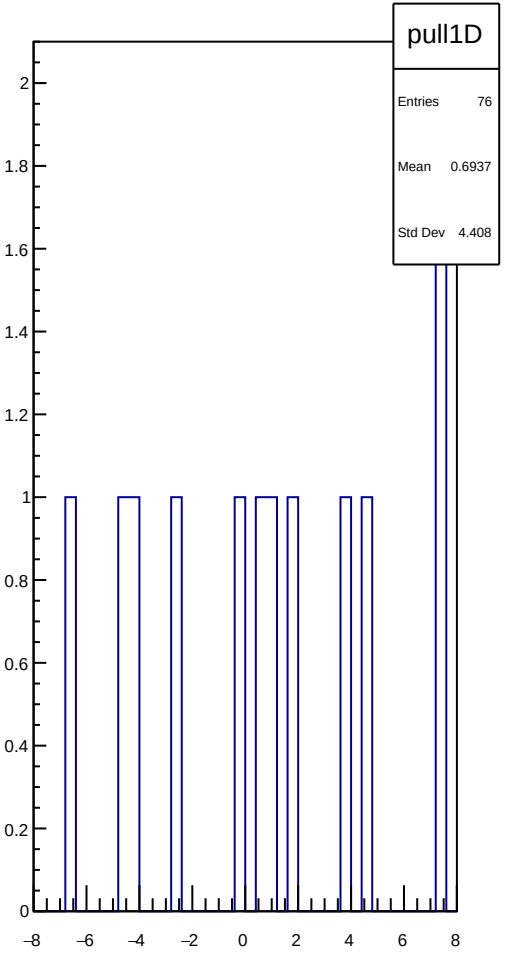

yield_bpm0l07WS_rms vs run
χ² / ndf 8435 / 75
p0 262.7 ± 0.2171
400
380
360
340
320
300
280
260
240

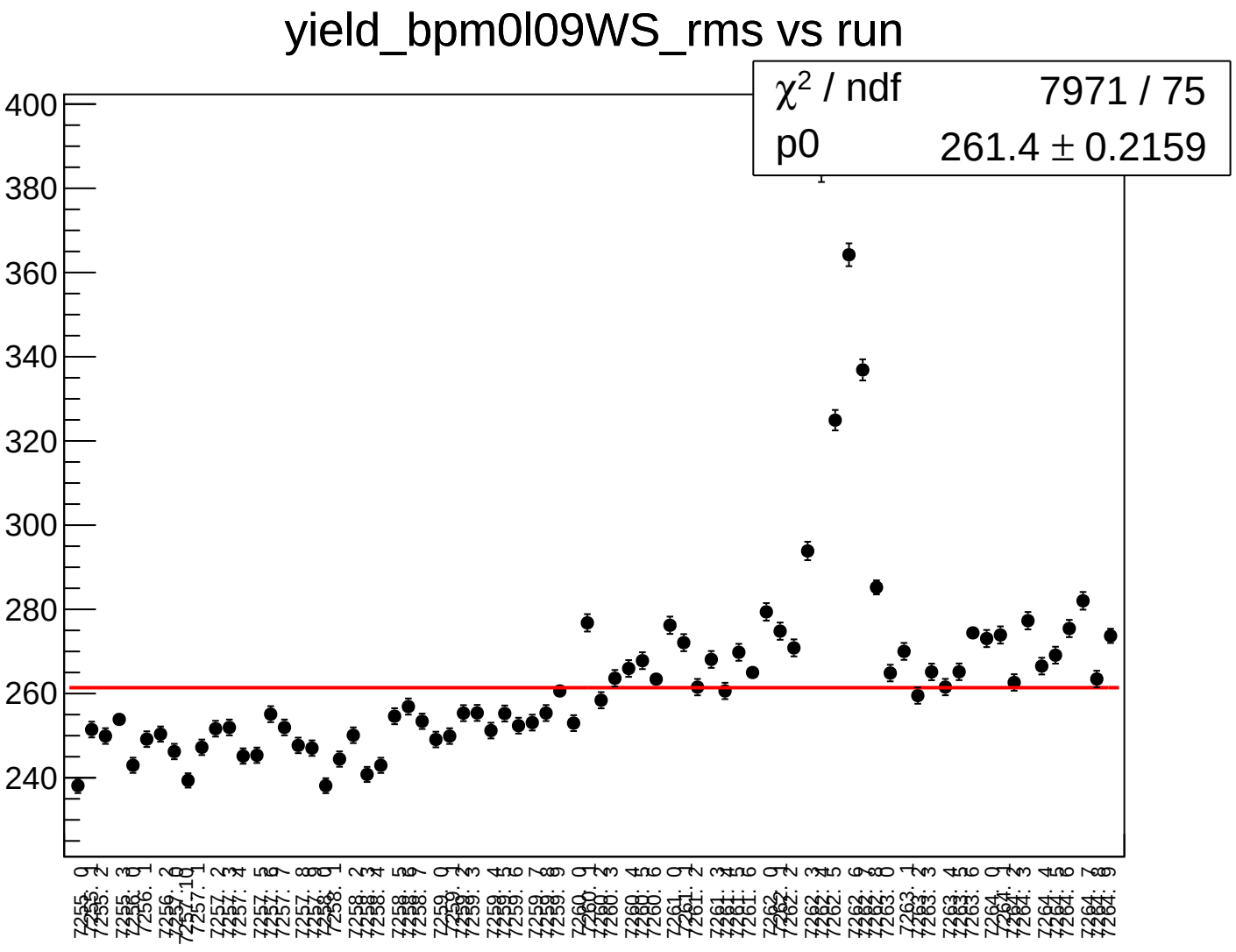

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 9.824e+04 / 75
p0 1.456e+05 ± 0.3105
145.8
145.75
145.7
145.65
145.6
145.55
145.5
145.45
145.4
pull
Entries 76
Mean 796.2
Std Dev 758.5
80
60
40
20
0
−20
−40
−60

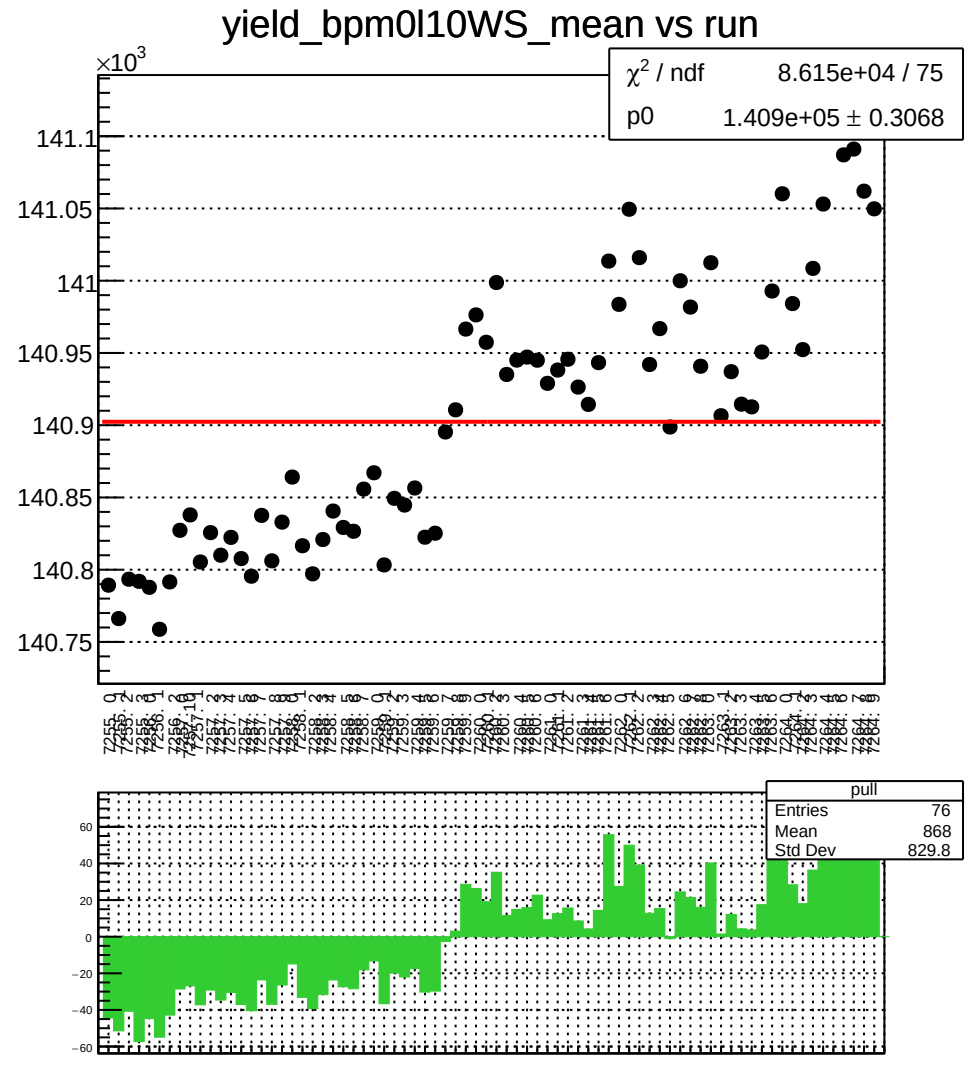

pull1D
Entries 76
Mean 3.179
Std Dev 2.634
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

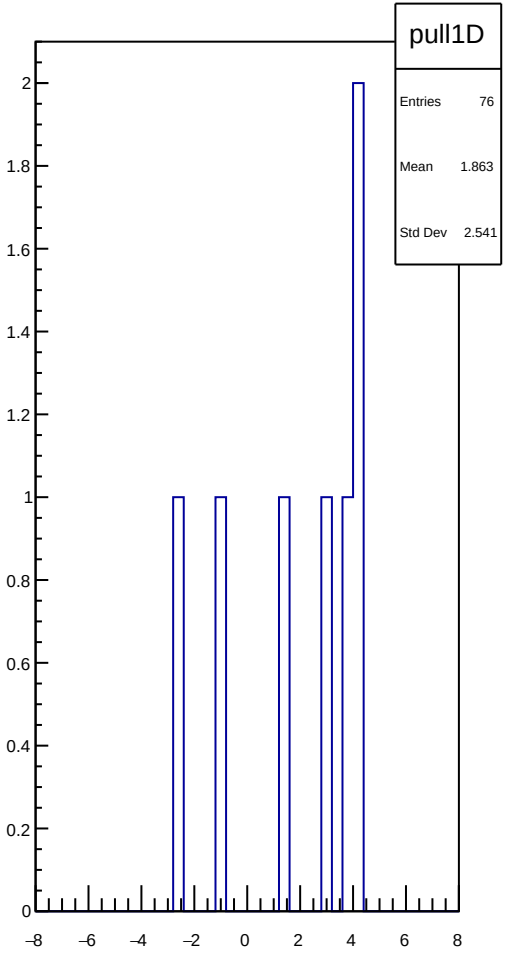

yield_bpm0l08WS_rms vs run
χ² / ndf 8272 / 75
p0 265.8 ± 0.2196
400
380
360
340
320
300
280
260
240

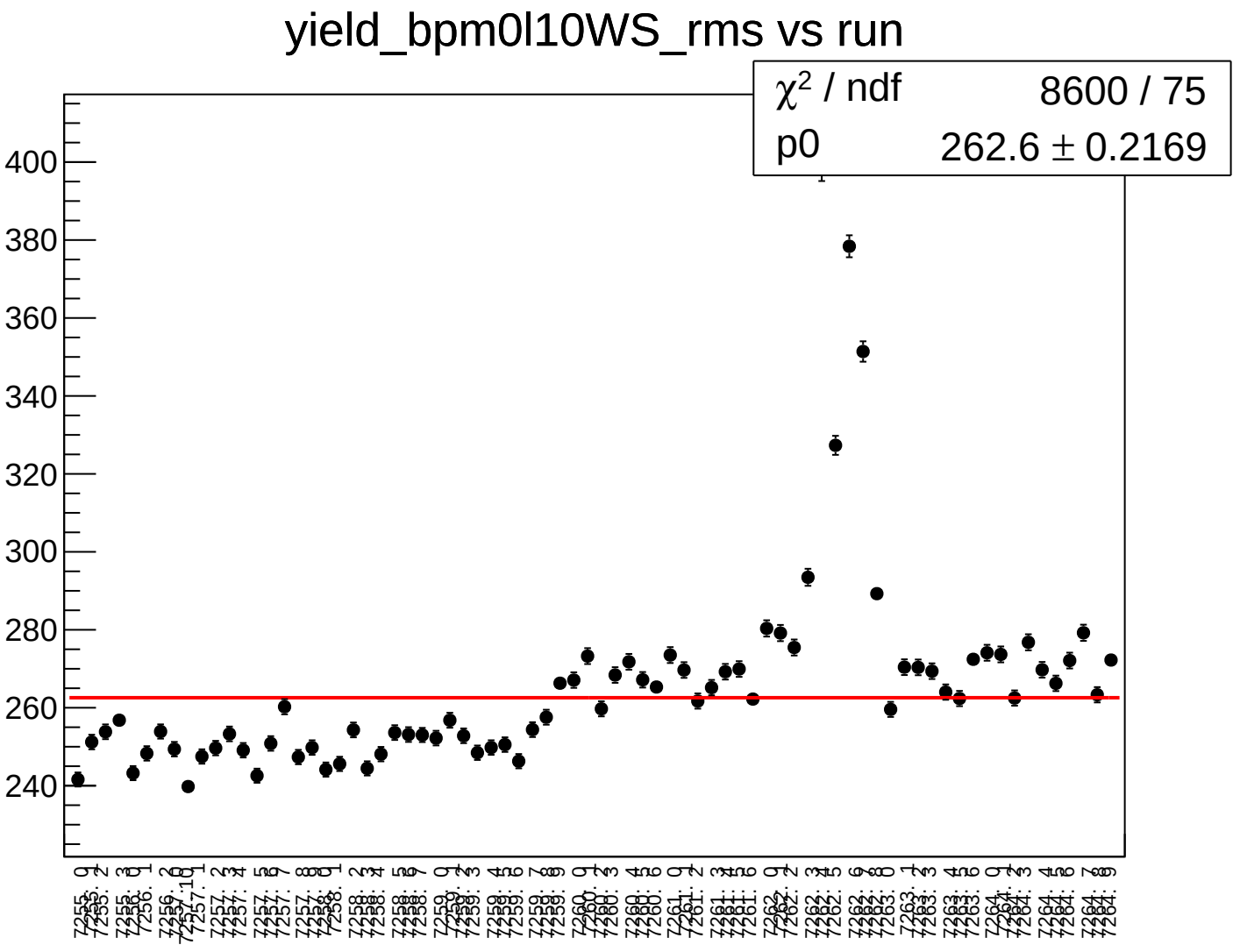

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 6.583e+04 / 75
p0 1.408e+05 ± 0.3053
141
140.95
140.9
140.85
140.8
140.75
140.7
140.65
pull
Entries 76
Mean 790.1
Std Dev 752
60
40
20
0
−20
−40

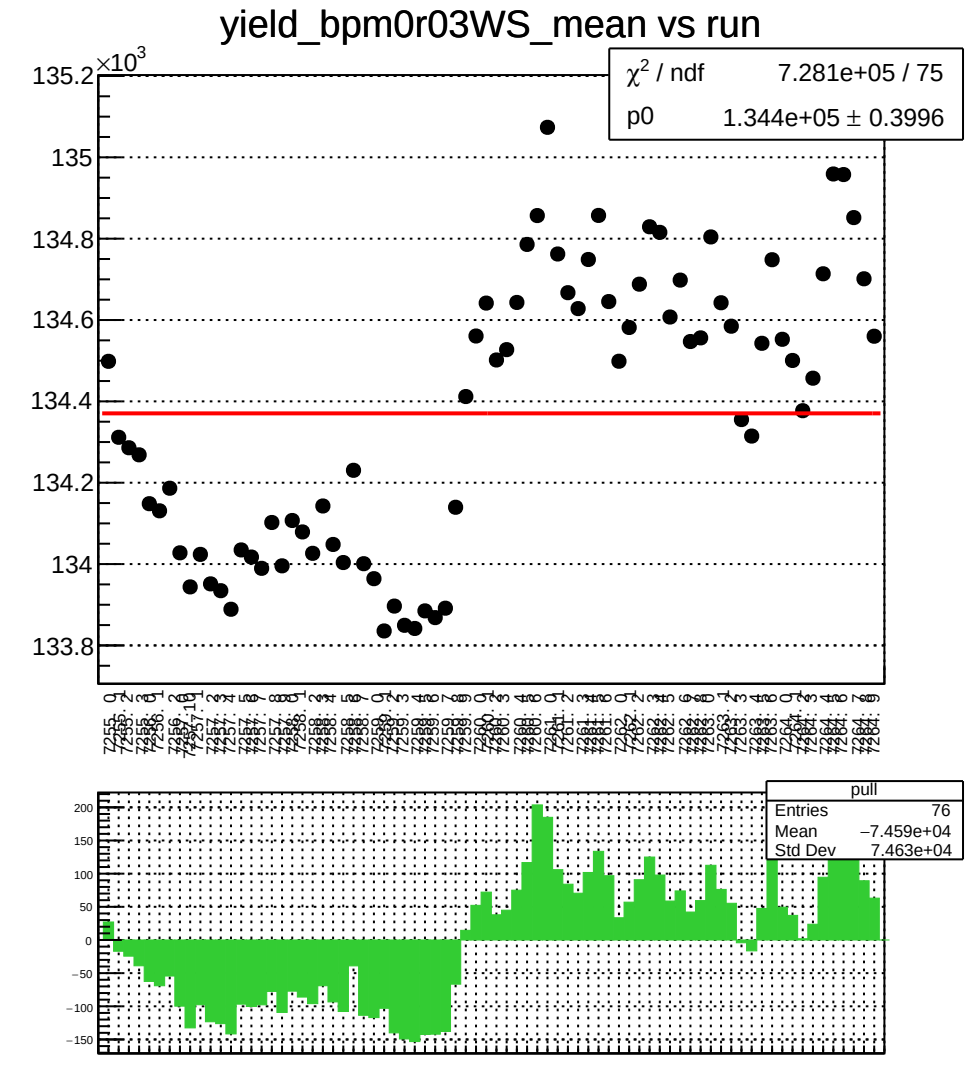

pull1D
Entries 76
Mean 0.6937
Std Dev 4.408
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

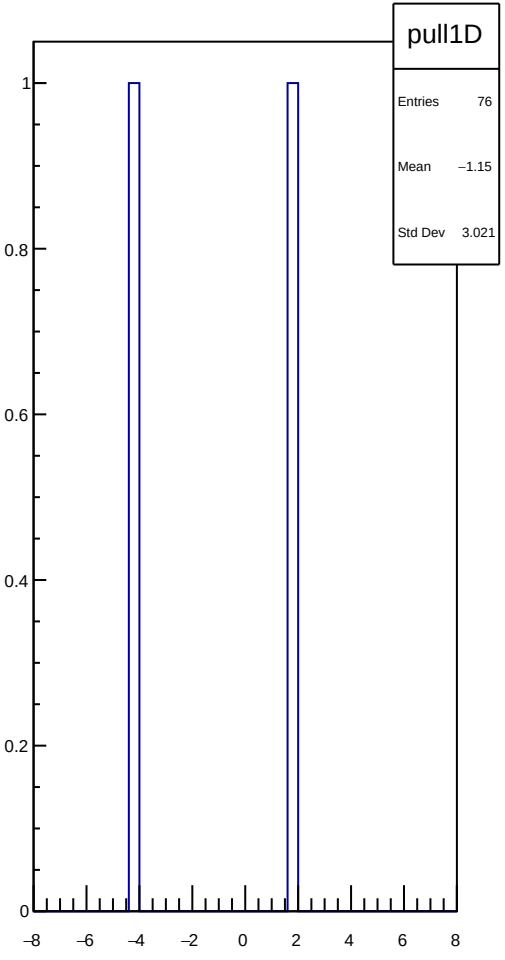

yield_bpm0l09WS_rms vs run
χ² / ndf 7971 / 75
p0 261.4 ± 0.2159
400
380
360
340
320
300
280
260
240

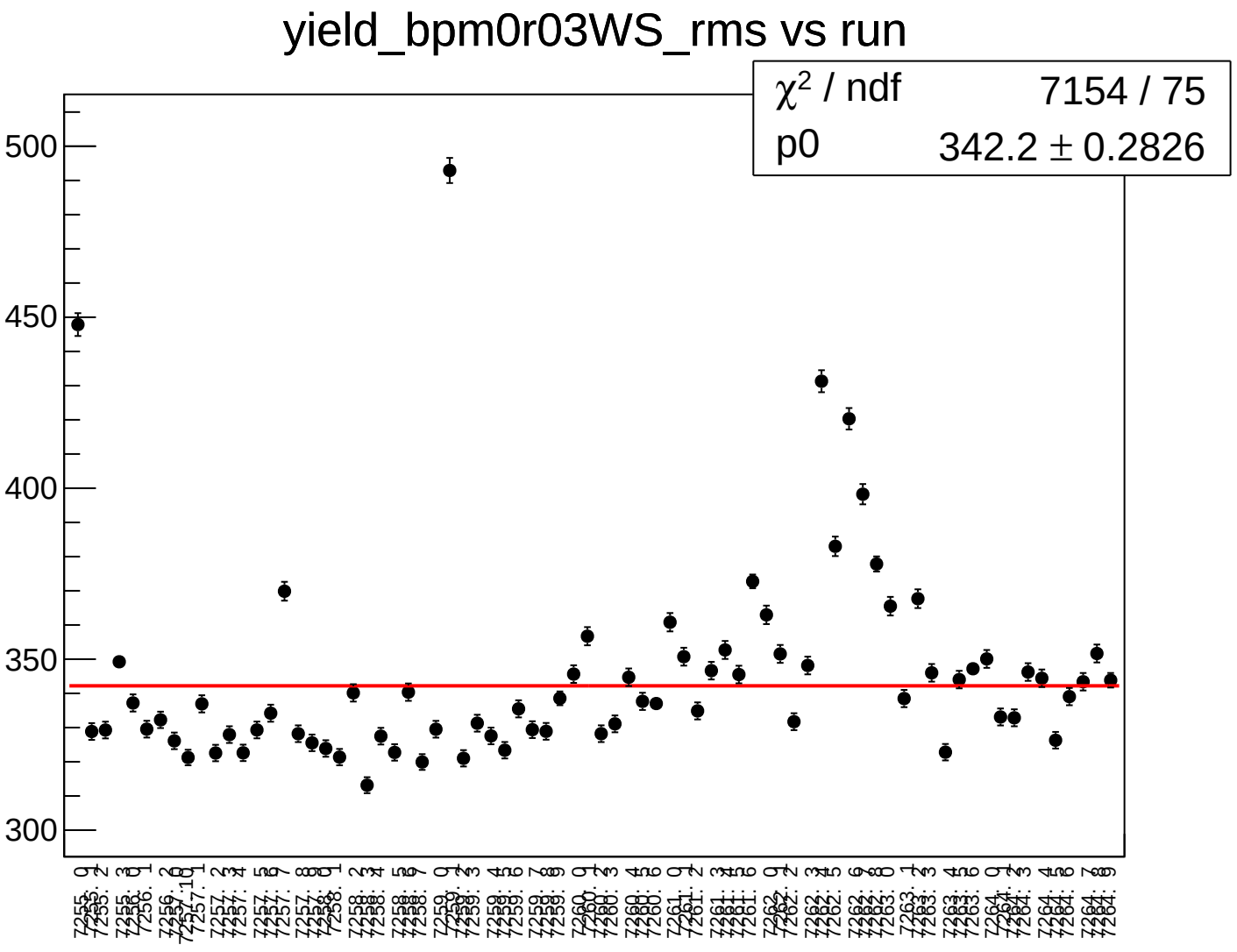

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 8.615e+04 / 75
p0 1.409e+05 ± 0.3068
141.1
141.05
141
140.95
140.9
140.85
140.8
140.75
pull
Entries 76
Mean 868
Std Dev 829.8
60
40
20
0
−20
−40
−60

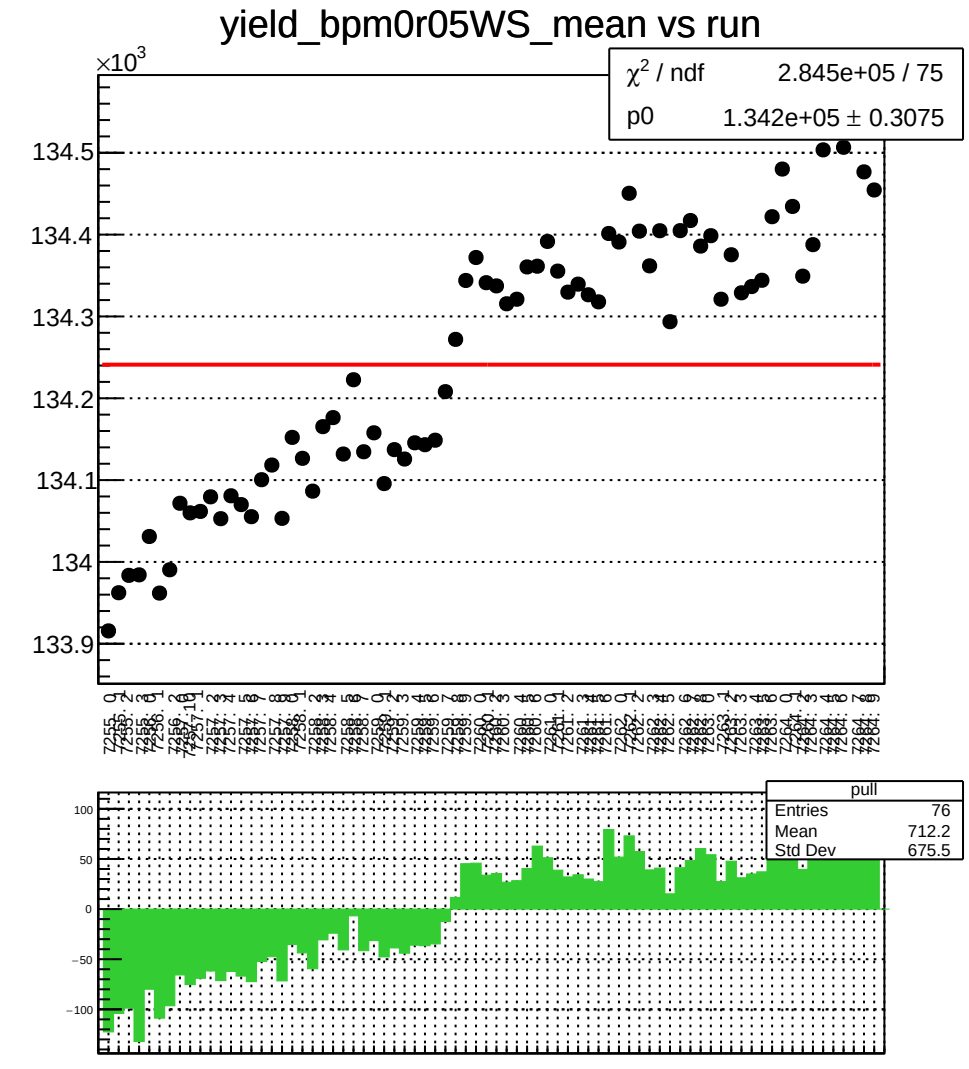

pull1D
Entries 76
Mean 1.863
Std Dev 2.541
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

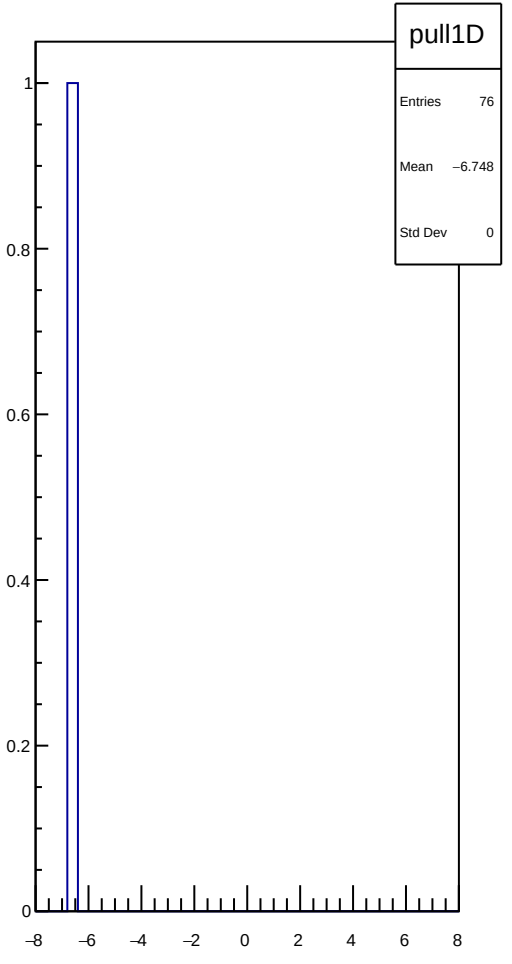

yield_bpm0l10WS_rms vs run
χ² / ndf 8600 / 75
p0 262.6 ± 0.2169
400
380
360
340
320
300
280
260
240

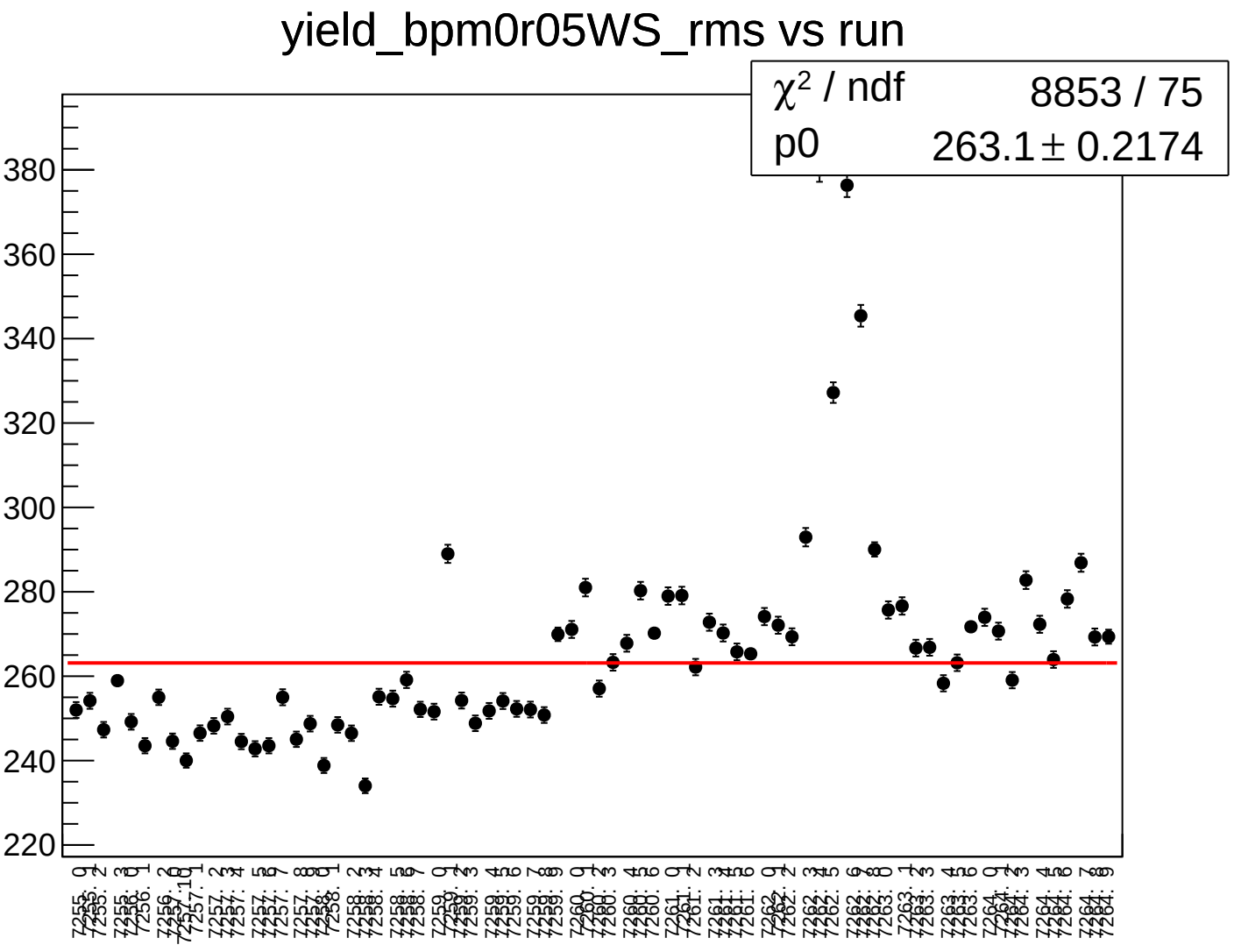

yield_bpm0r03WS_mean vs run
χ² / ndf 7.281e+05 / 75
p0 1.344e+05 ± 0.3996
×10³
135.2
135
134.8
134.6
134.4
134.2
134
133.8
pull
Entries 76
Mean −7.459e+04
Std Dev 7.463e+04
200
150
100
50
0
−50
−100
−150

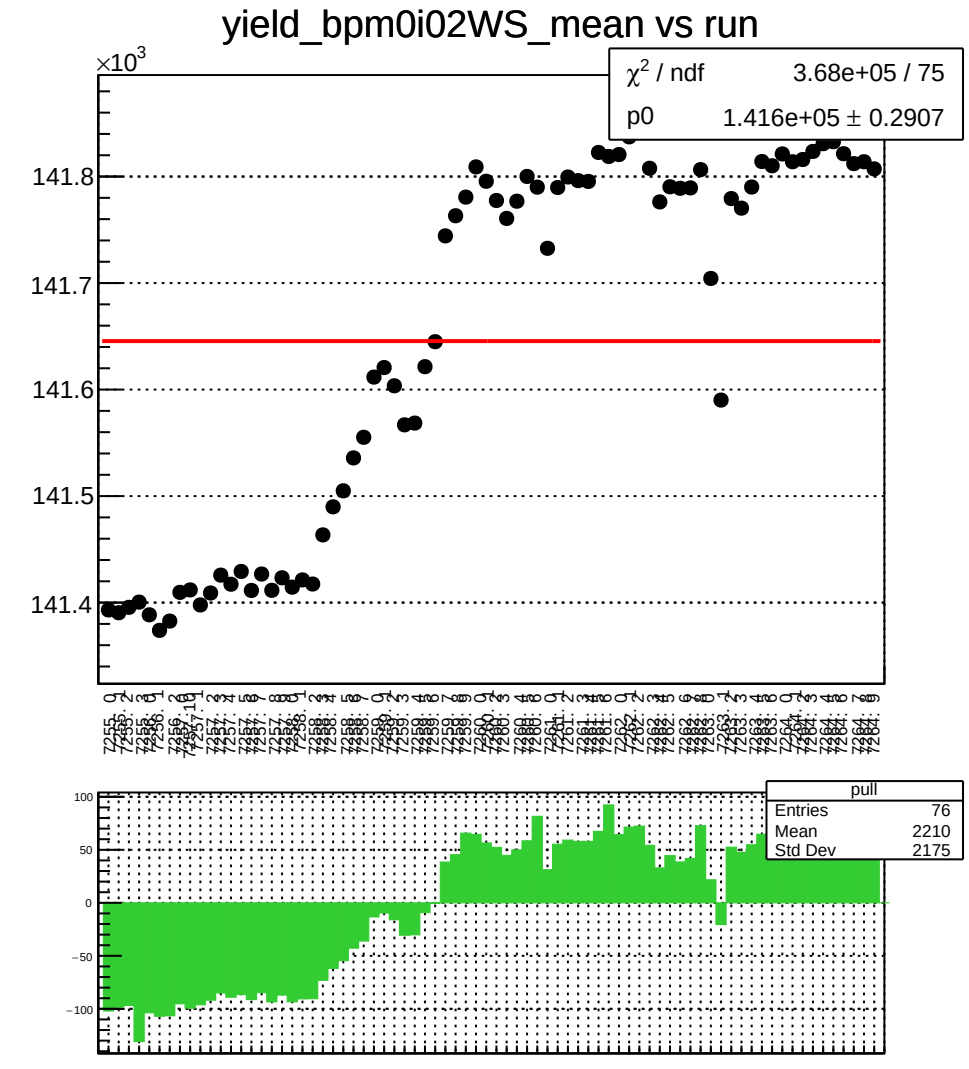

pull1D
Entries 76
Mean −1.15
Std Dev 3.021
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

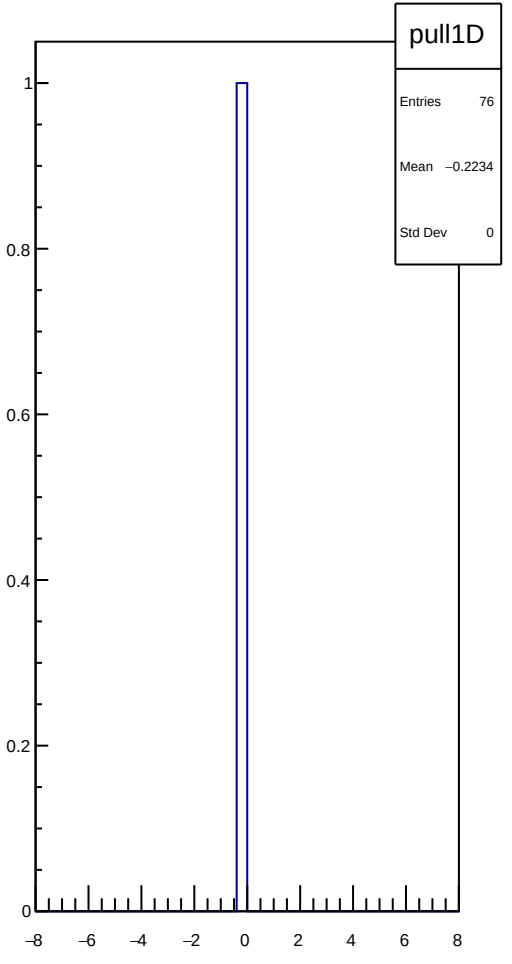

yield_bpm0r03WS_rms vs run
χ² / ndf 7154 / 75
p0 342.2 ± 0.2826
500
450
400
350
300

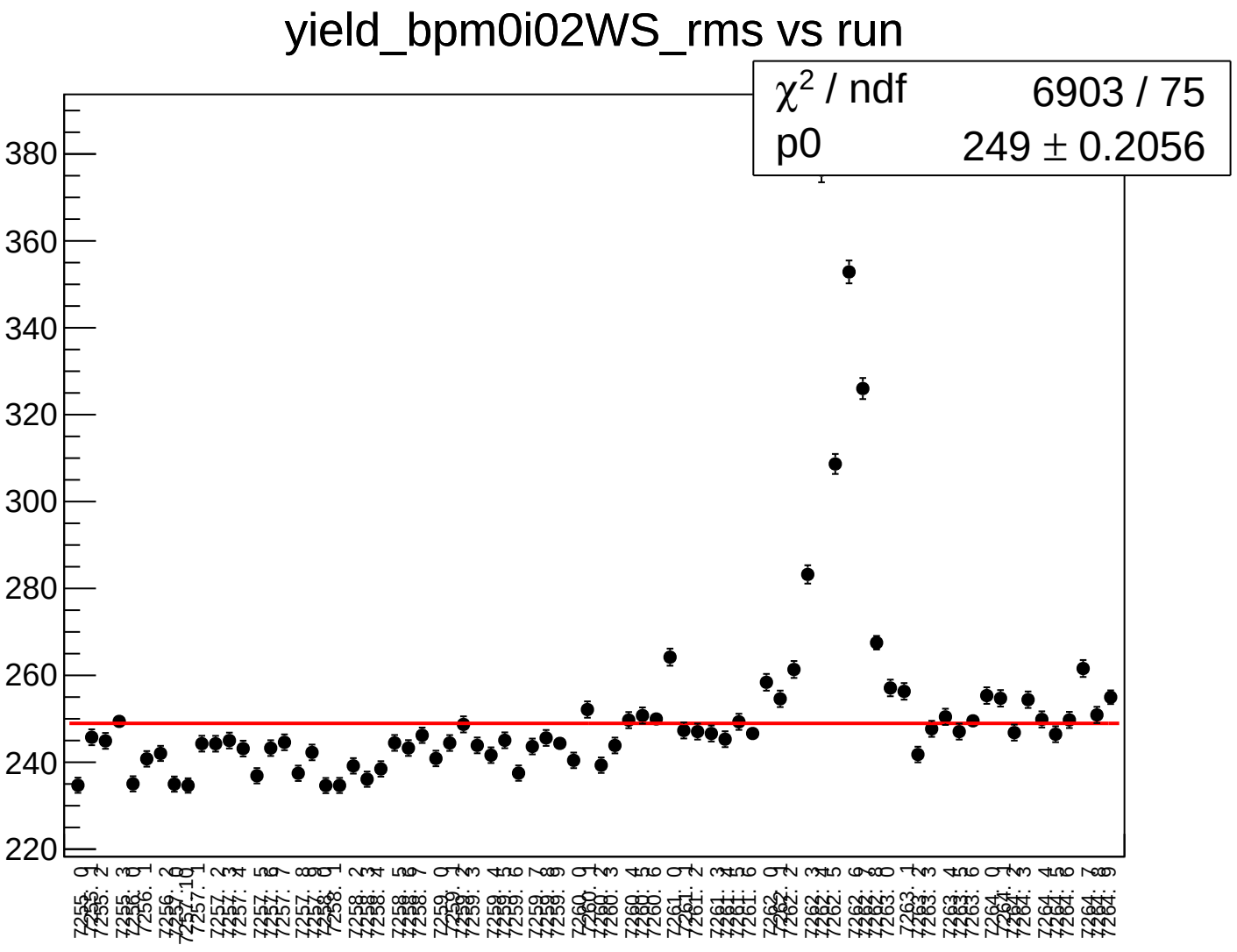

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.845e+05 / 75
p0 1.342e+05 ± 0.3075
134.5
134.4
134.3
134.2
134.1
134
133.9
pull
Entries 76
Mean 712.2
Std Dev 675.5
100
50
0
−50
−100

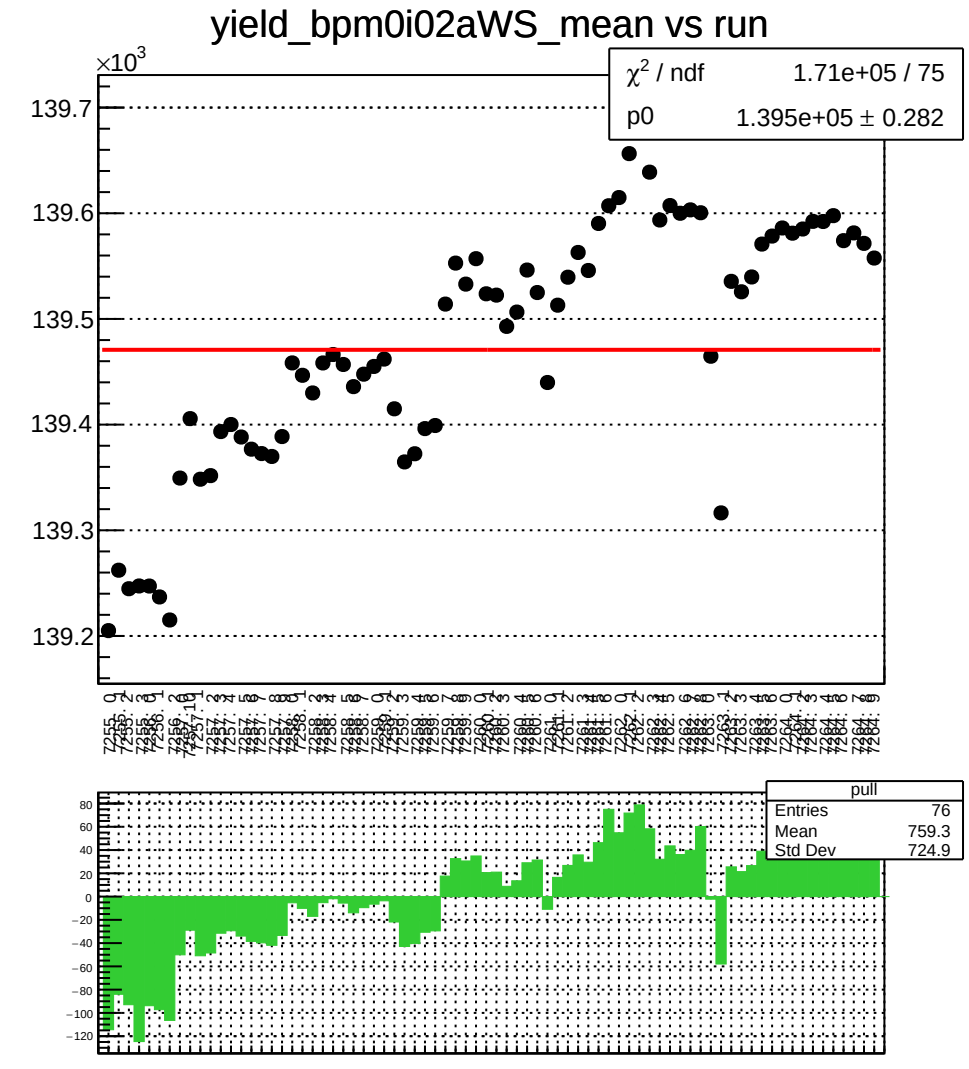

pull1D
Entries 76
Mean −6.748
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

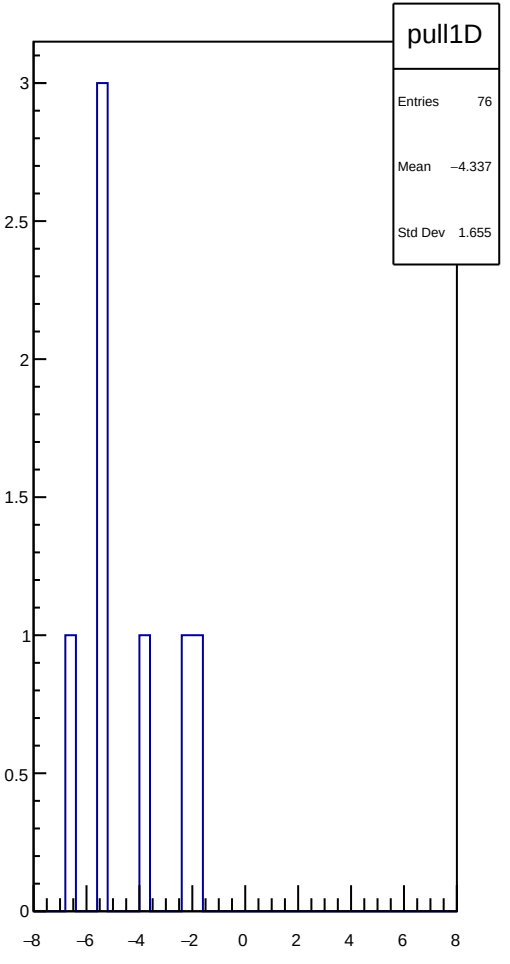

yield_bpm0r05WS_rms vs run
χ² / ndf 8853 / 75
p0 263.1 ± 0.2174
380
360
340
320
300
280
260
240
220

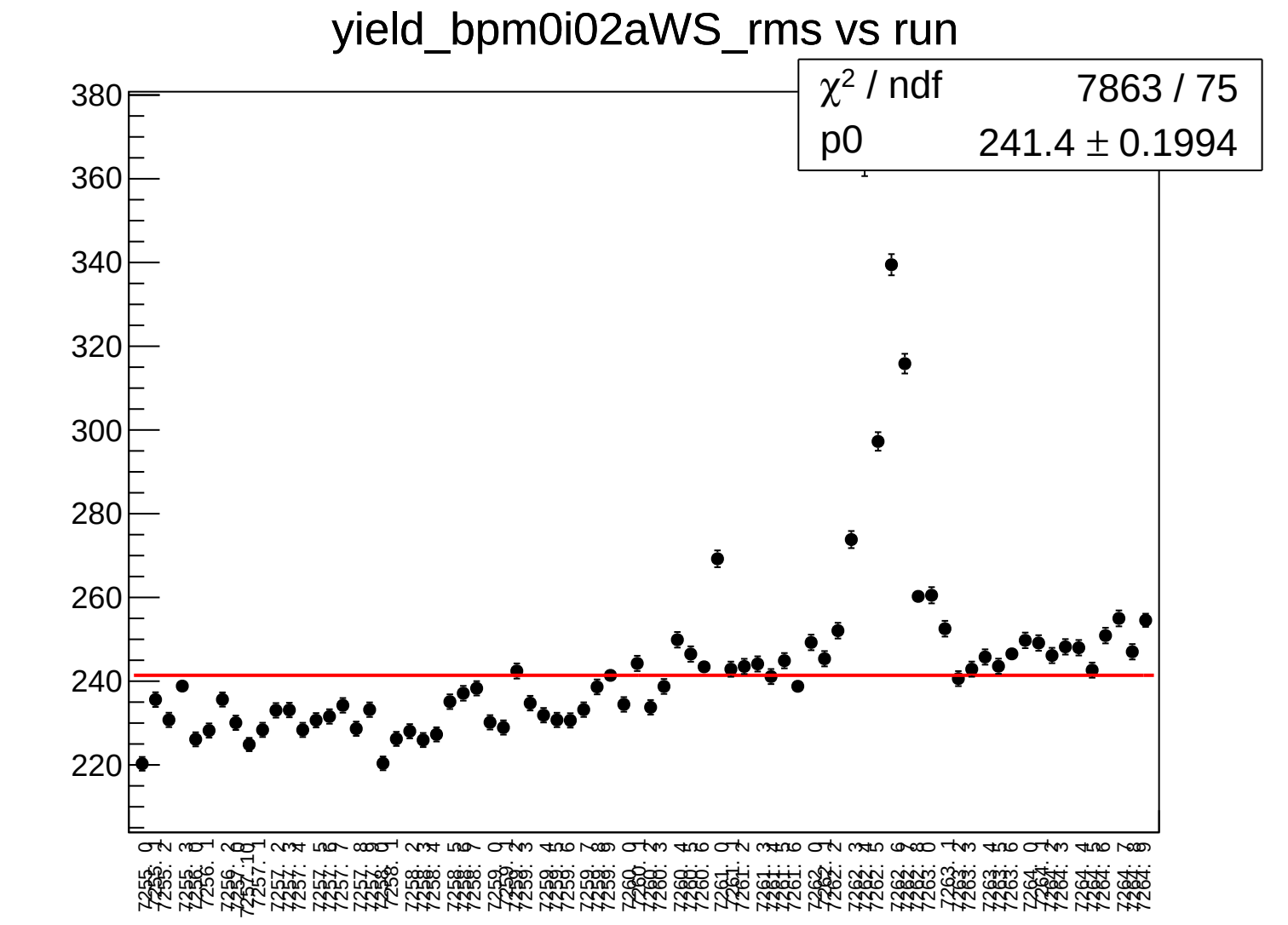

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 3.68e+05 / 75
p0 1.416e+05 ± 0.2907
141.8
141.7
141.6
141.5
141.4
pull
Entries 76
Mean 2210
Std Dev 2175
100
50
0
−50
−100

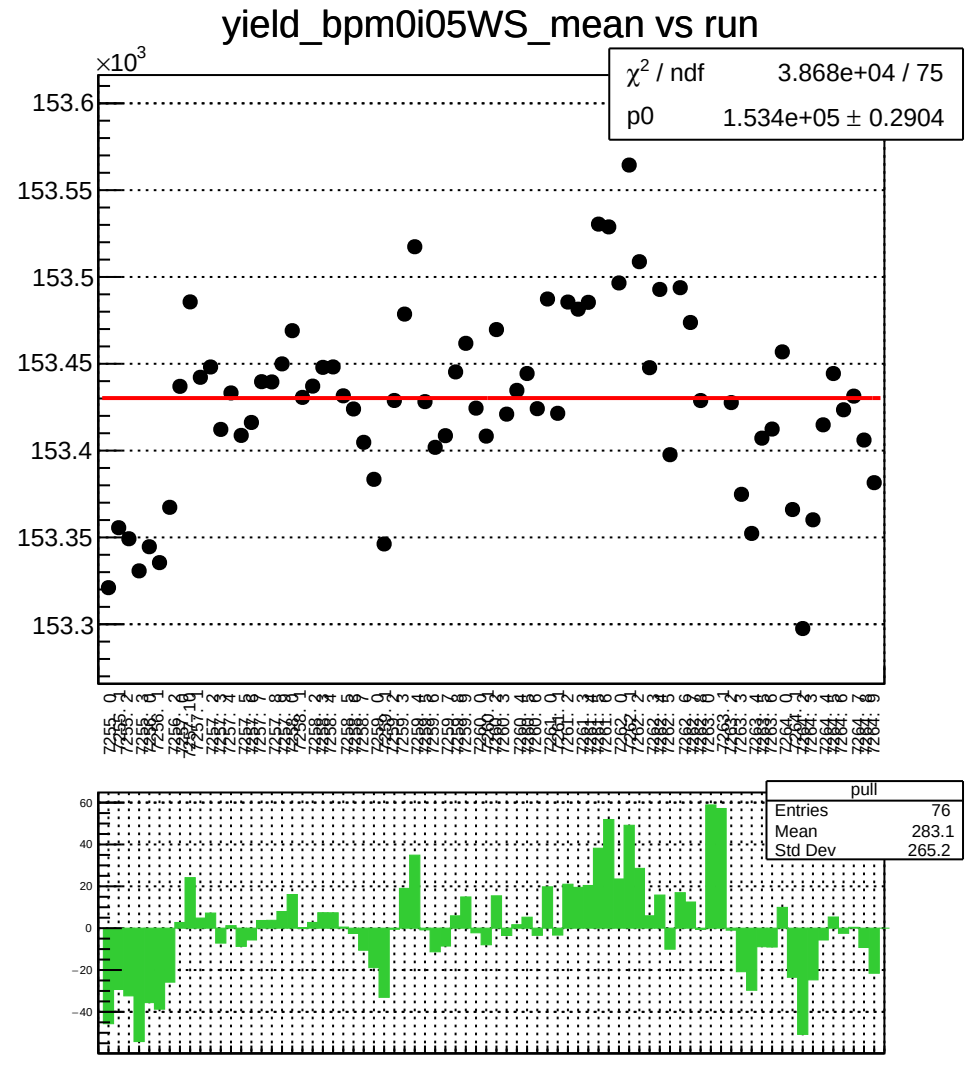

pull1D
Entries 76
Mean −0.2234
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

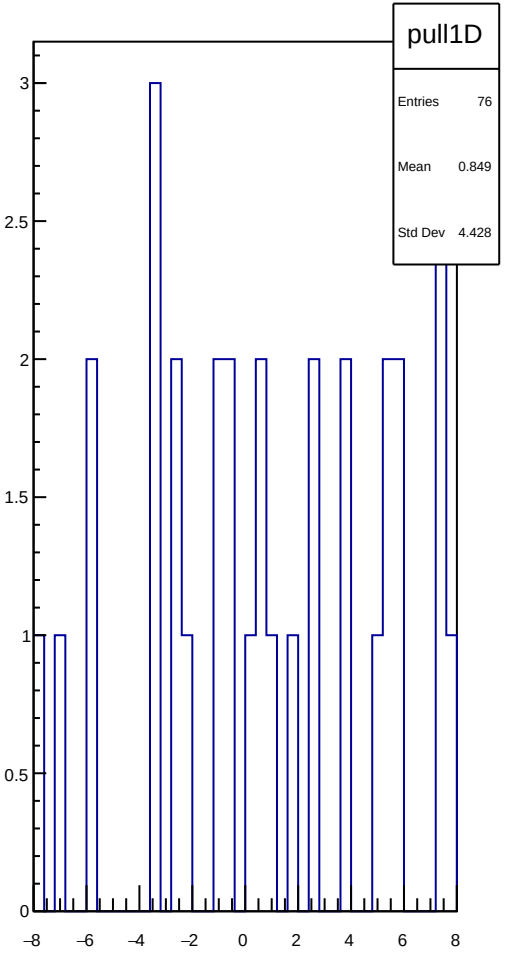

yield_bpm0i02WS_rms vs run
χ² / ndf 6903 / 75
p0 249 ± 0.2056
380
360
340
320
300
280
260
240
220

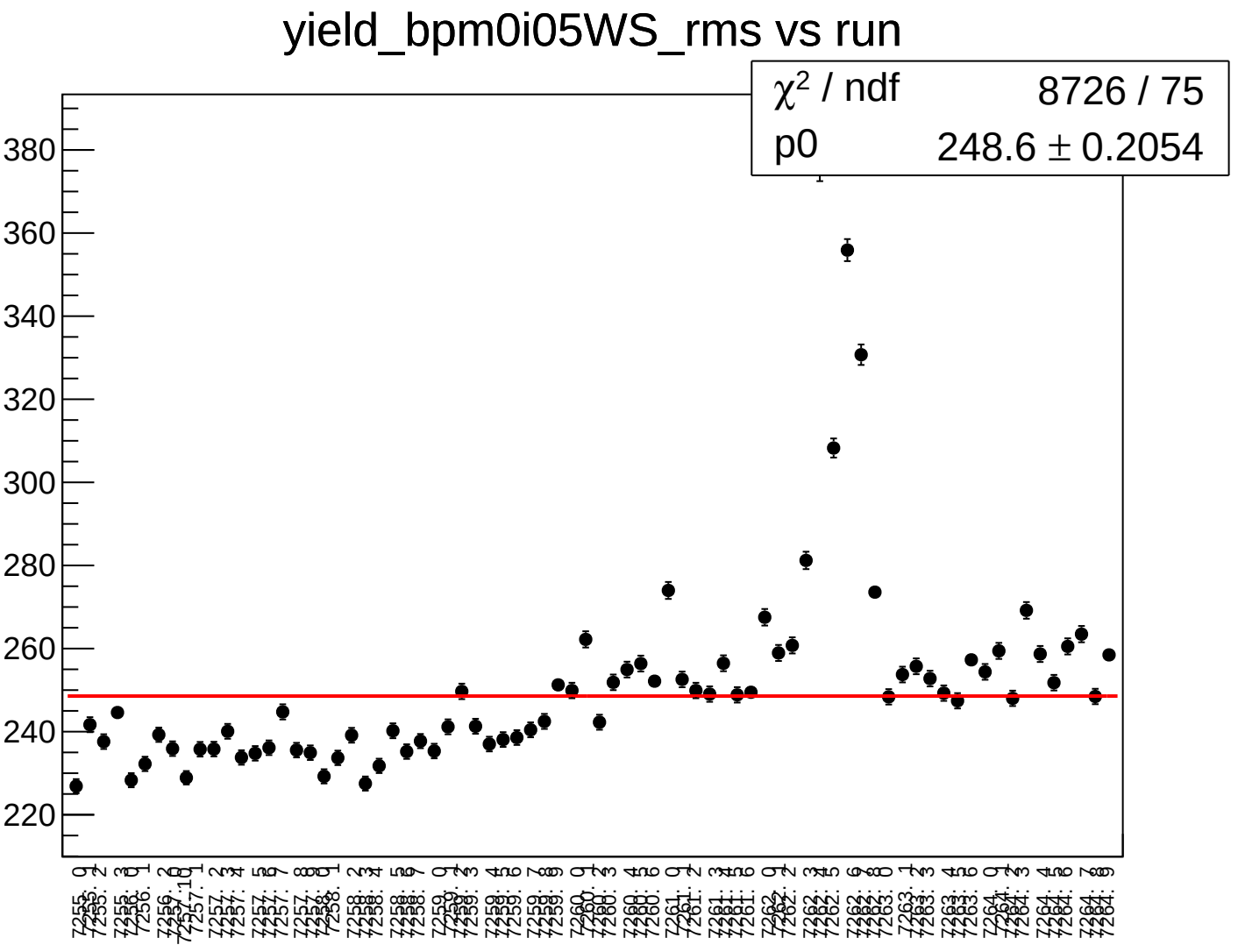

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 1.71e+05 / 75
p0 1.395e+05 ± 0.282
139.7
139.6
139.5
139.4
139.3
139.2
pull
Entries 76
Mean 759.3
Std Dev 724.9
80
60
40
20
0
−20
−40
−60
−80
−100
−120

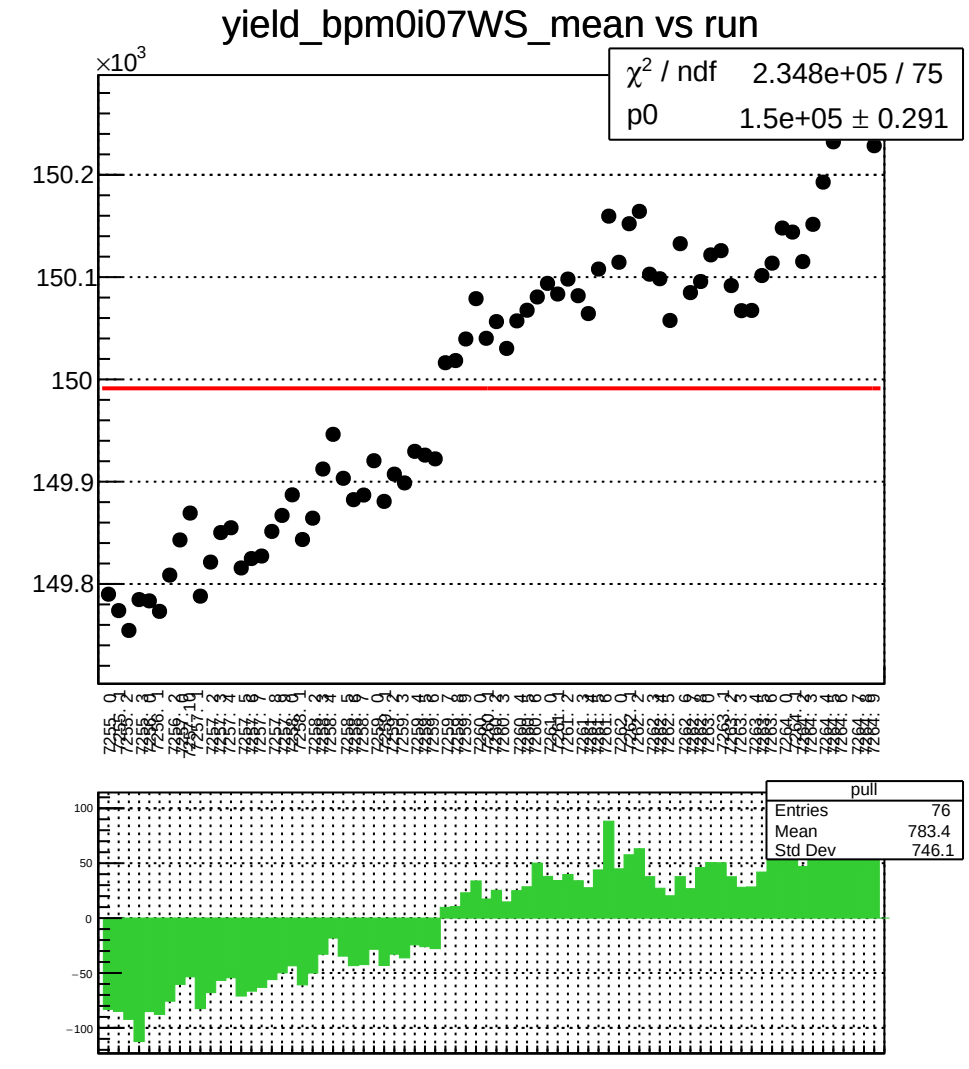

pull1D
Entries 76
Mean −4.337
Std Dev 1.655
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

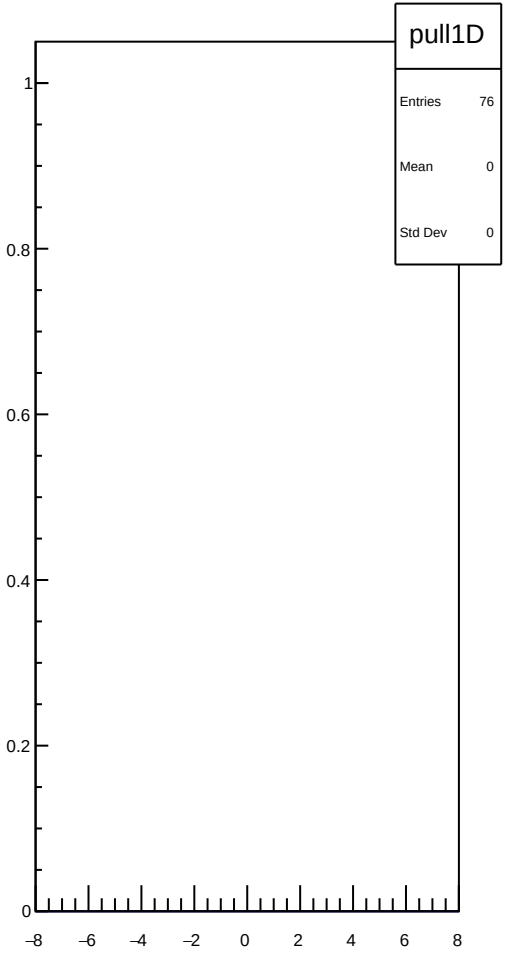

yield_bpm0i02aWS_rms vs run
χ² / ndf 7863 / 75
p0 241.4 ± 0.1994
380
360
340
320
300
280
260
240
220

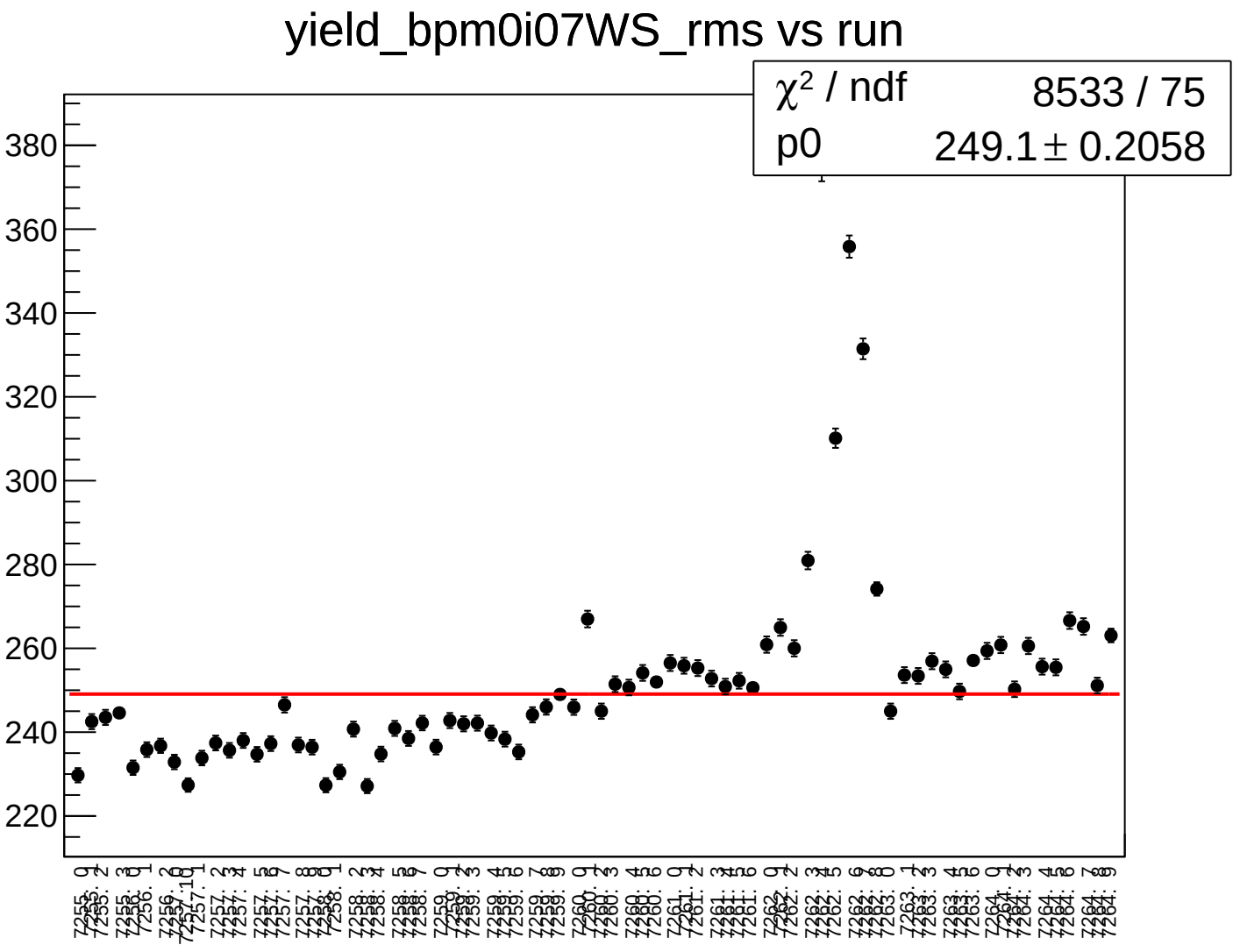

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.868e+04 / 75
p0 1.534e+05 ± 0.2904
153.6
153.55
153.5
153.45
153.4
153.35
153.3
pull
Entries 76
Mean 283.1
Std Dev 265.2
60
40
20
0
−20
−40

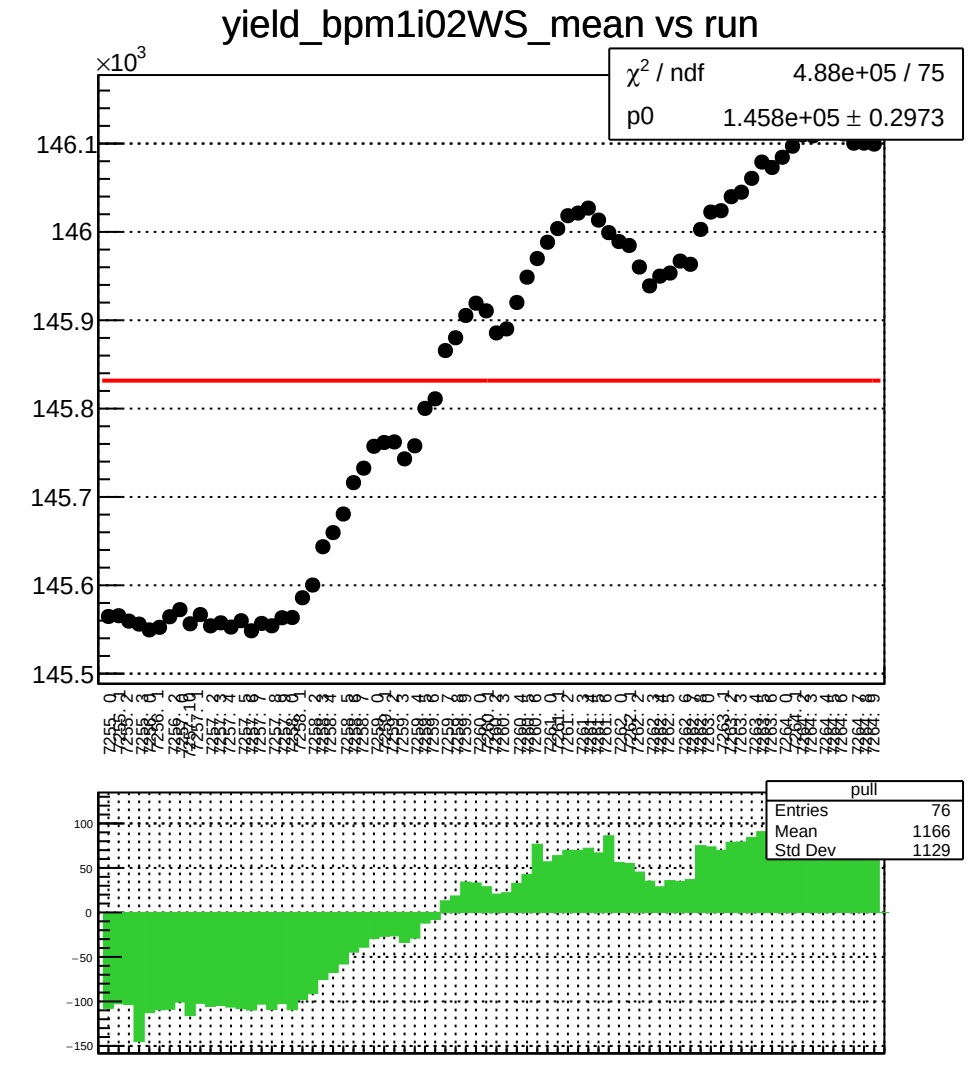

pull1D
Entries 76
Mean 0.849
Std Dev 4.428
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

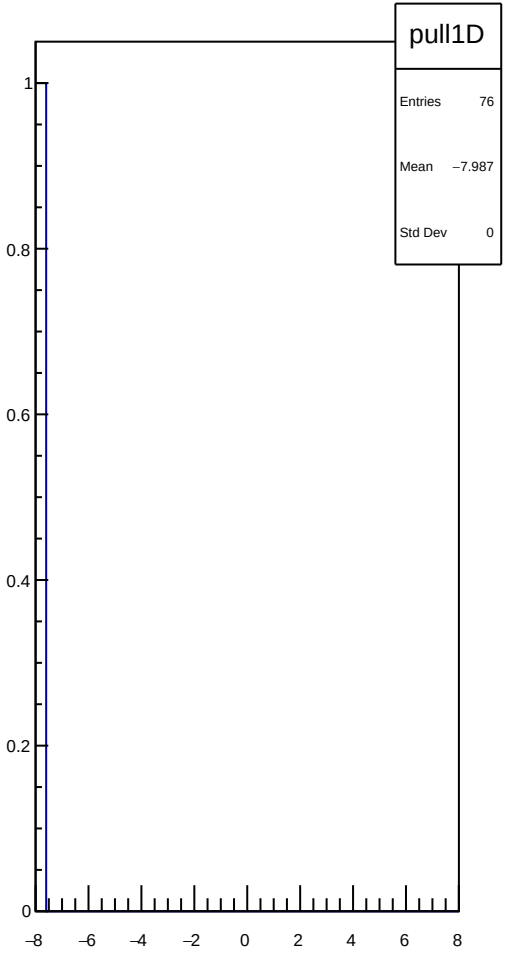

yield_bpm0i05WS_rms vs run
χ² / ndf 8726 / 75
p0 248.6 ± 0.2054
380
360
340
320
300
280
260
240
220

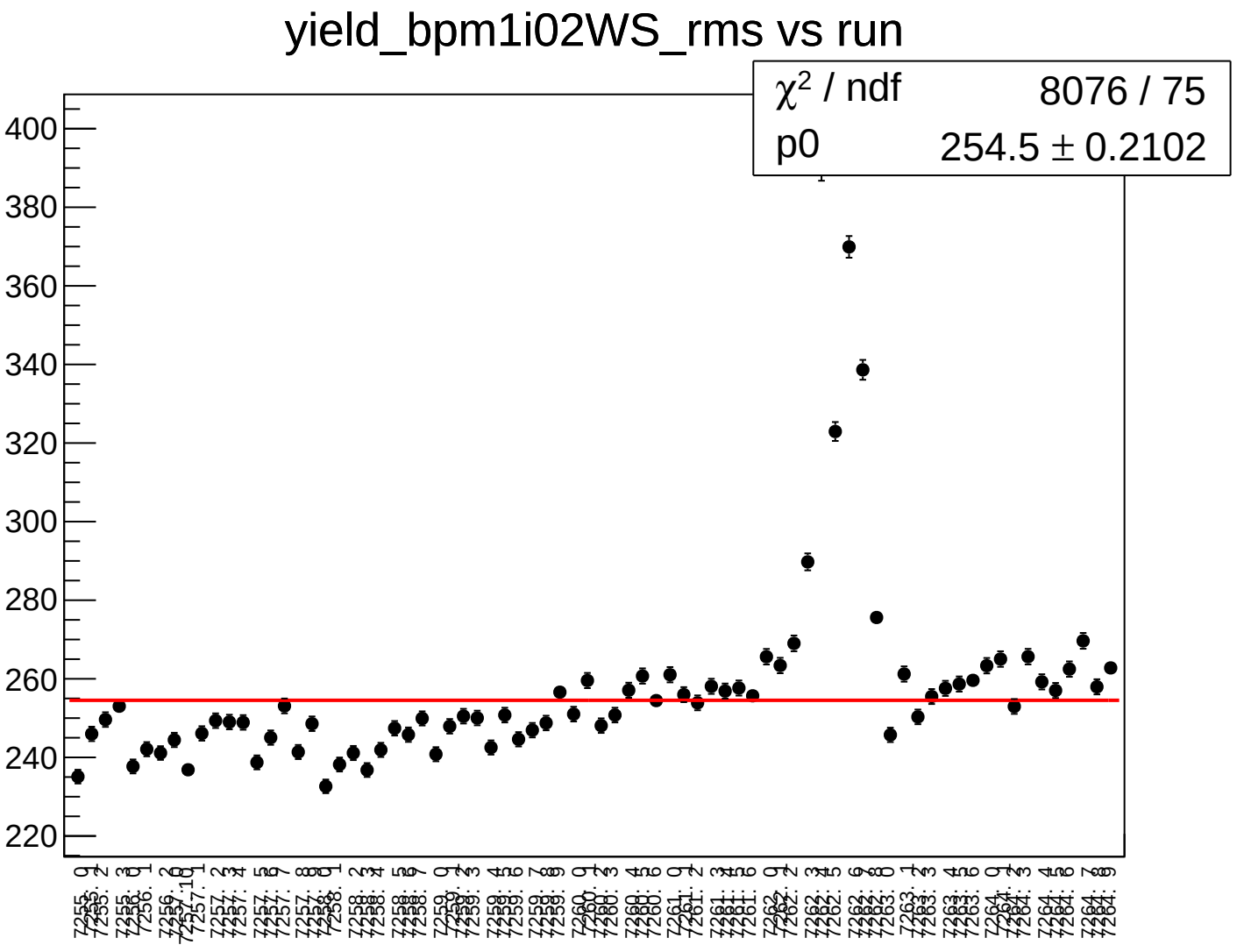

yield_bpm0i07WS_mean vs run
χ^2 / ndf 2.348e+05 / 75
p0 1.5e+05 ± 0.291
×10^3
150.2
150.1
150
149.9
149.8
pull
Entries 76
Mean 783.4
Std Dev 746.1
100
50
0
−50
−100

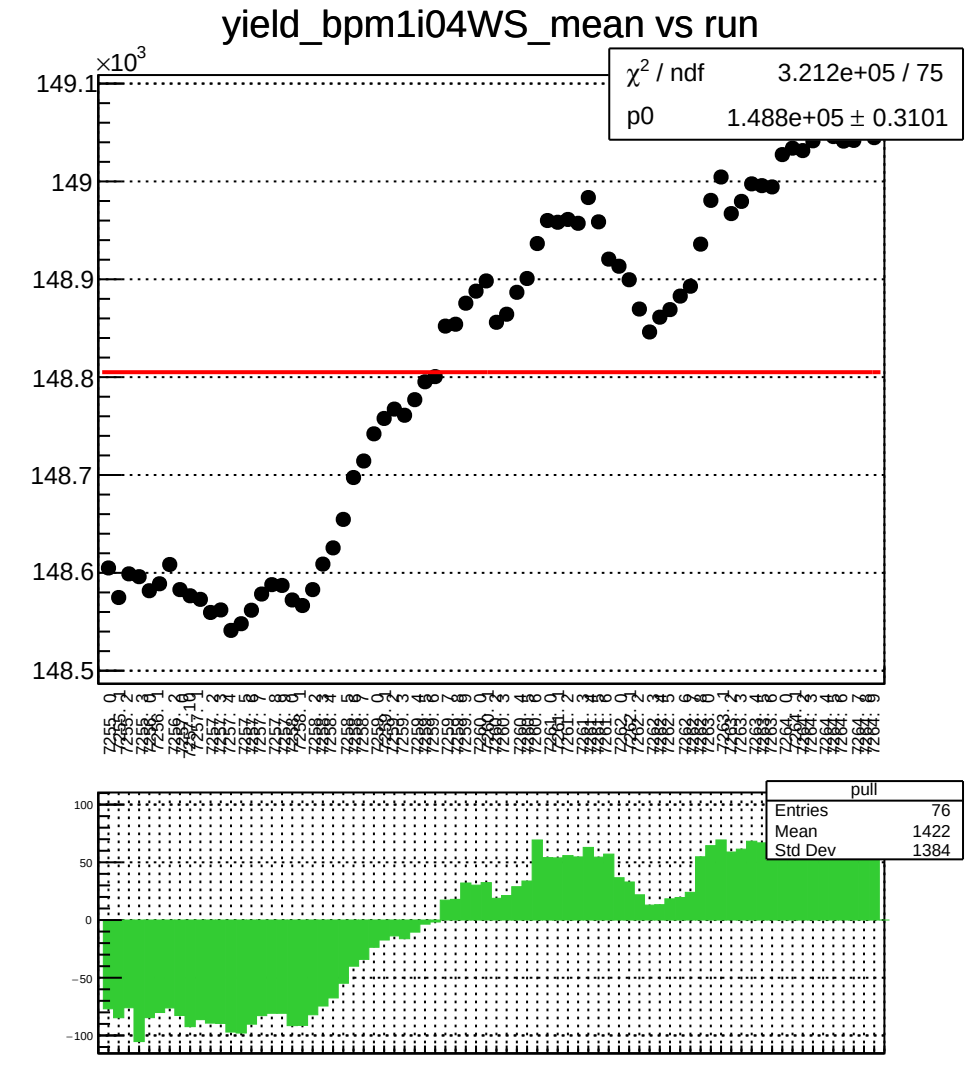

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

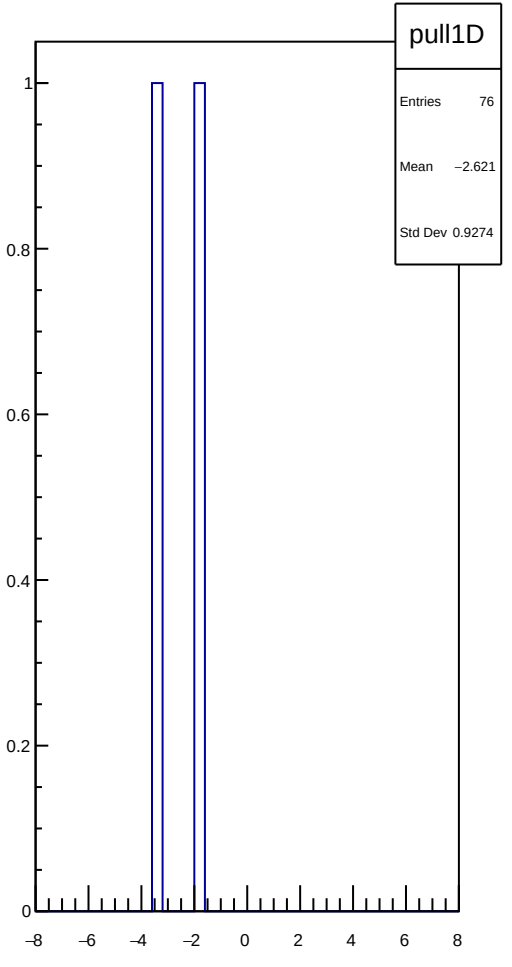

yield_bpm0i07WS_rms vs run
χ² / ndf 8533 / 75
p0 249.1 ± 0.2058
380
360
340
320
300
280
260
240
220

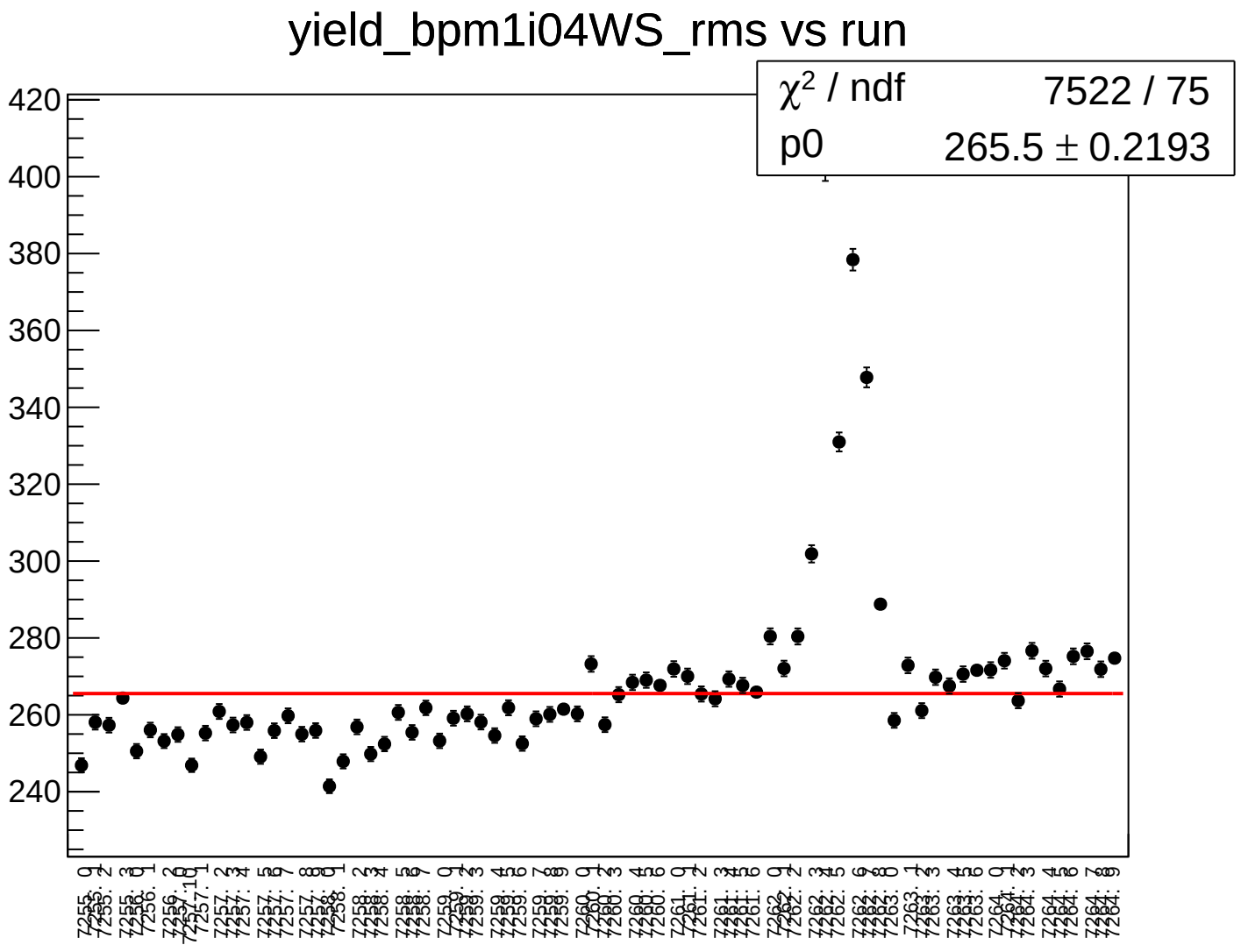

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 4.88e+05 / 75
p0 1.458e+05 ± 0.2973
146.1
146
145.9
145.8
145.7
145.6
145.5
pull
Entries 76
Mean 1166
Std Dev 1129
100
50
0
−50
−100
−150

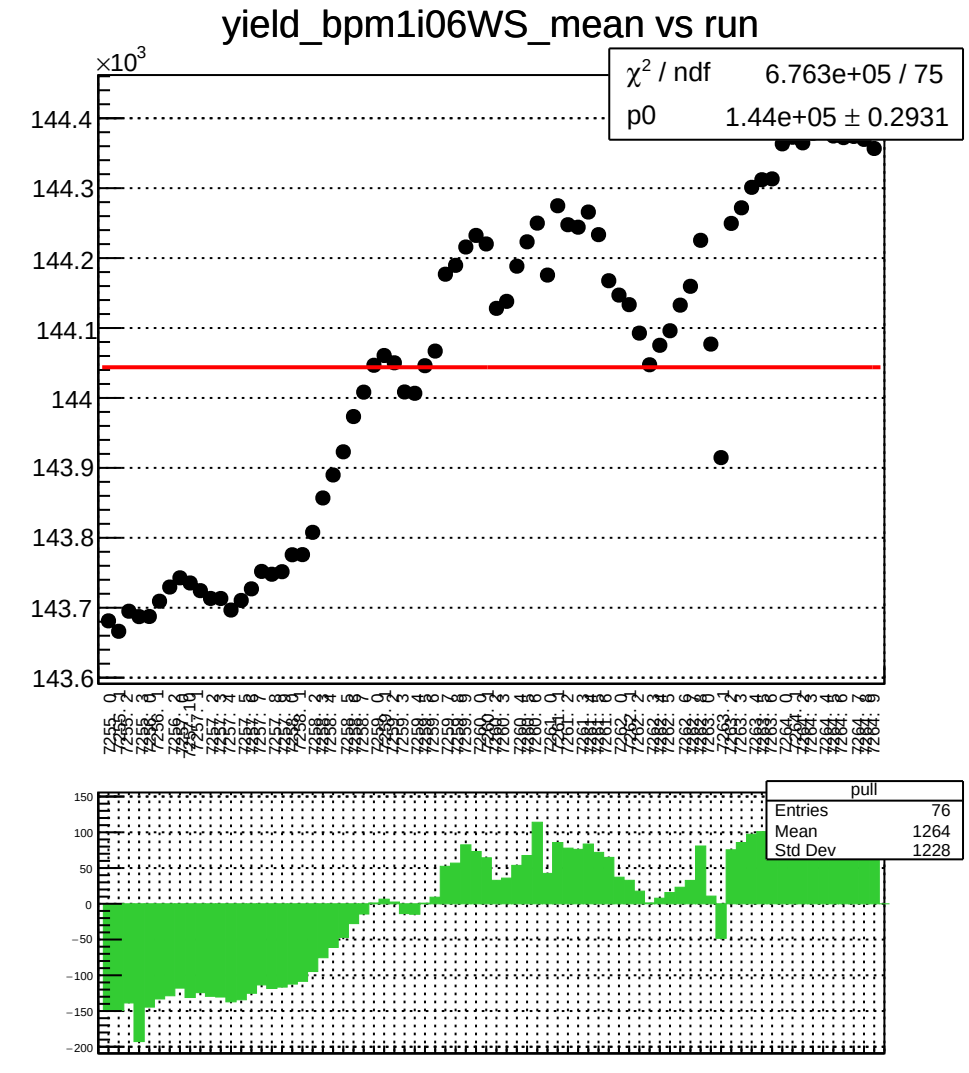

pull1D
Entries 76
Mean −7.987
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

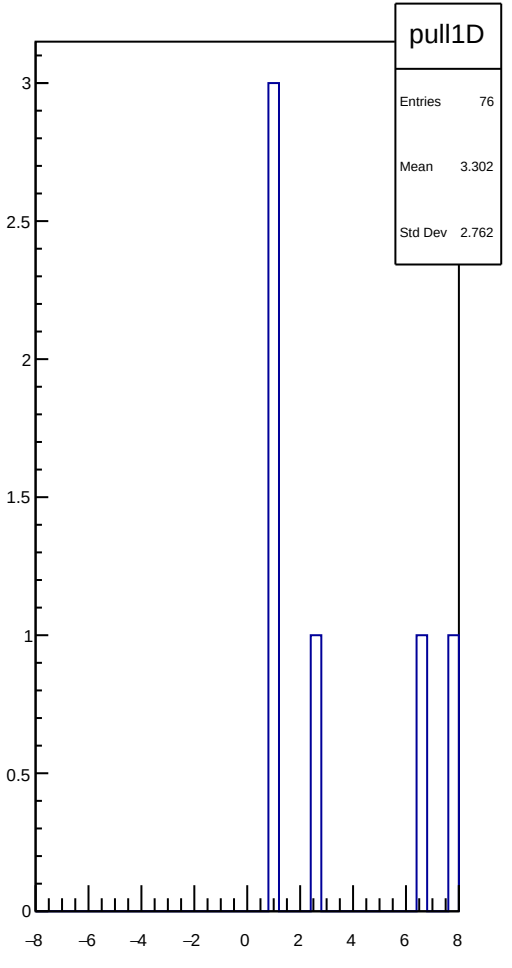

yield_bpm1i02WS_rms vs run
χ² / ndf 8076 / 75
p0 254.5 ± 0.2102
400
380
360
340
320
300
280
260
240
220

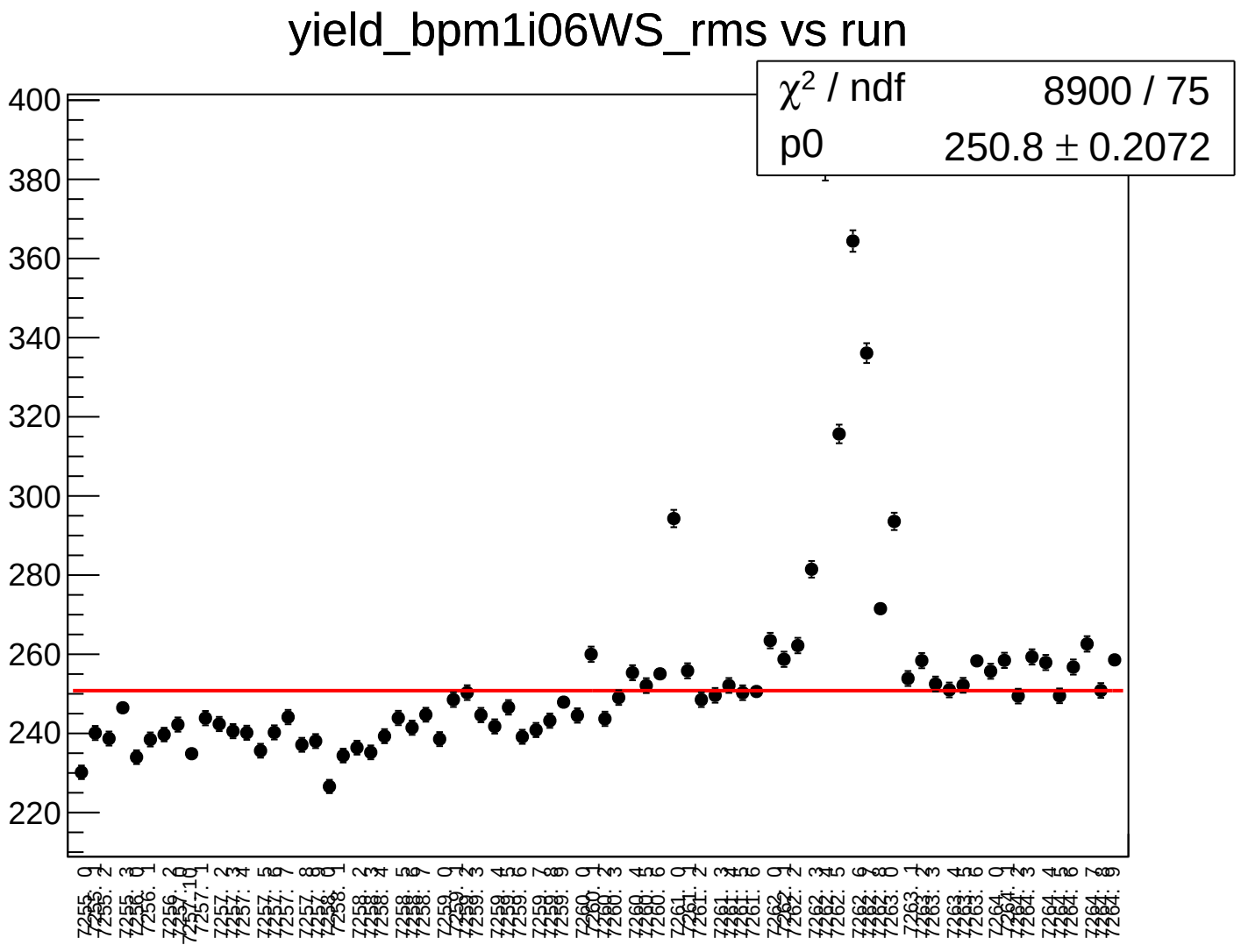

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 3.212e+05 / 75
p0 1.488e+05 ± 0.3101
149.1
149
148.9
148.8
148.7
148.6
148.5
pull
Entries 76
Mean 1422
Std Dev 1384
100
50
0
−50
−100

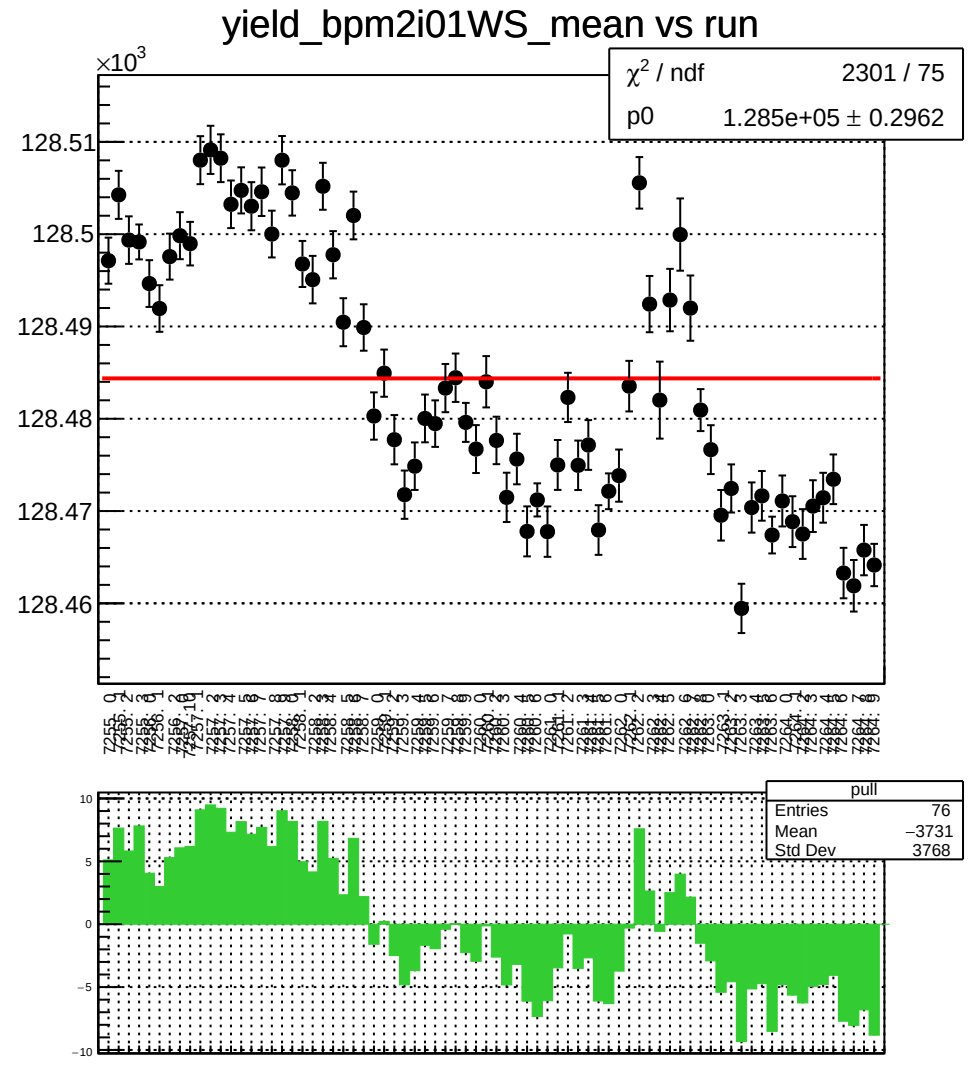

pull1D
Entries 76
Mean −2.621
Std Dev 0.9274
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

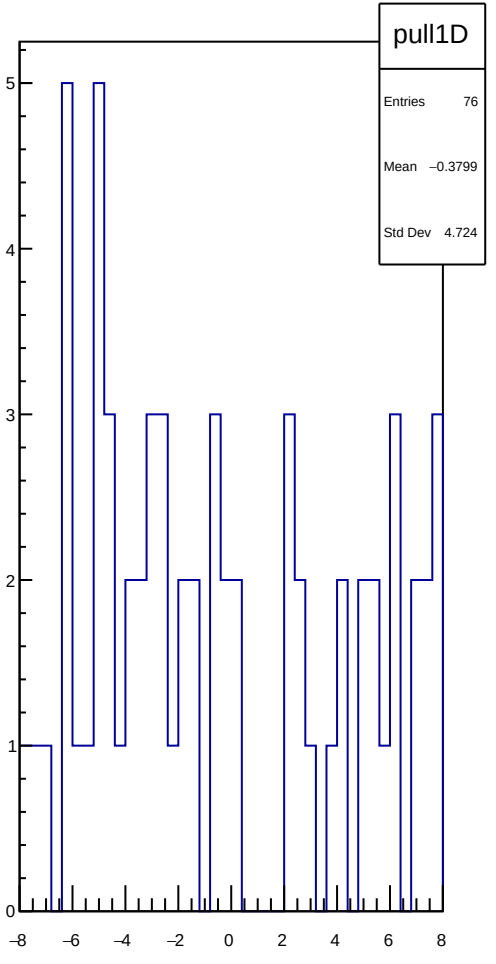

yield_bpm1i04WS_rms vs run
χ² / ndf 7522 / 75
p0 265.5 ± 0.2193
420
400
380
360
340
320
300
280
260
240

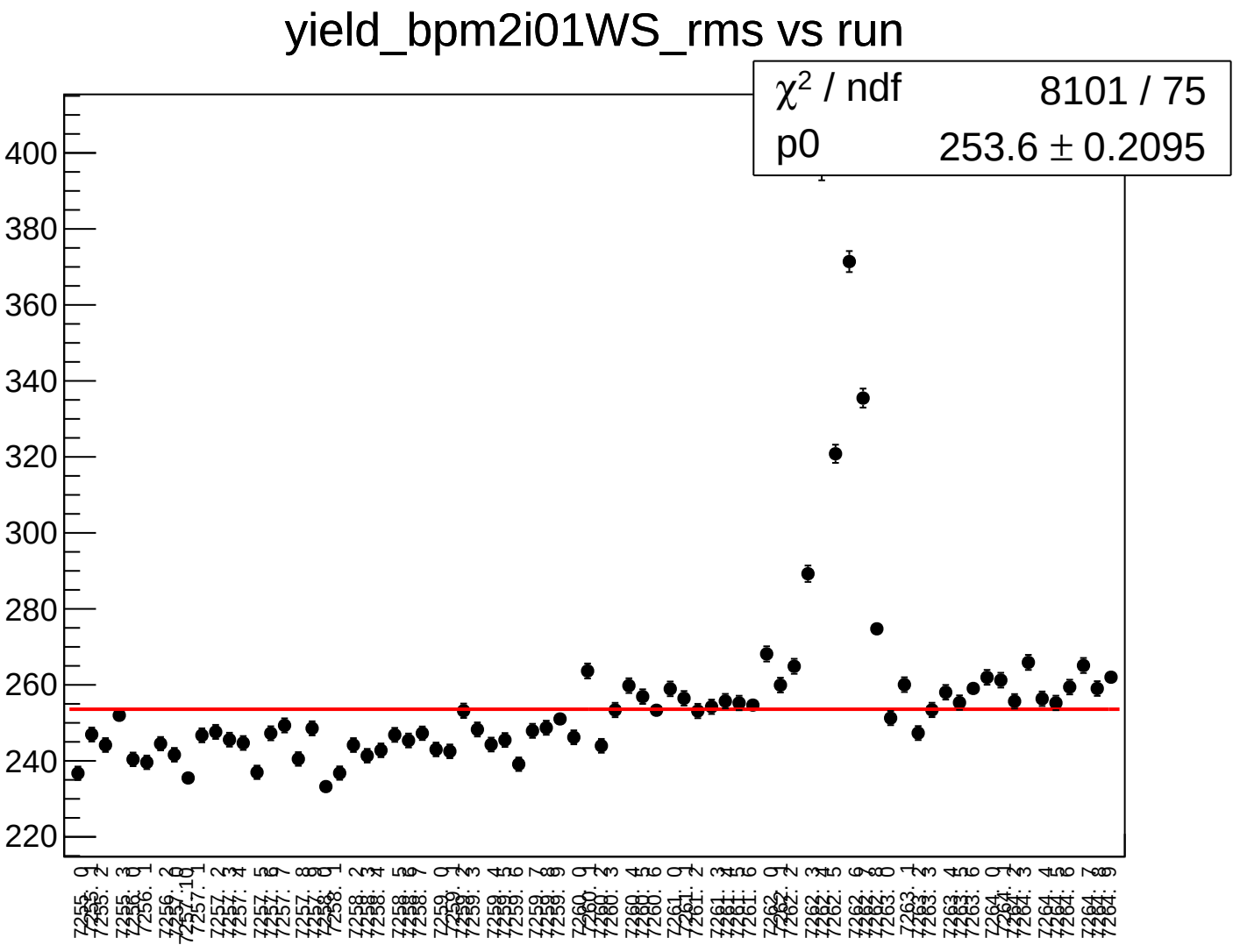

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.763e+05 / 75
p0 1.44e+05 ± 0.2931
144.4
144.3
144.2
144.1
144
143.9
143.8
143.7
143.6
pull
Entries 76
Mean 1264
Std Dev 1228
150
100
50
0
−50
−100
−150
−200

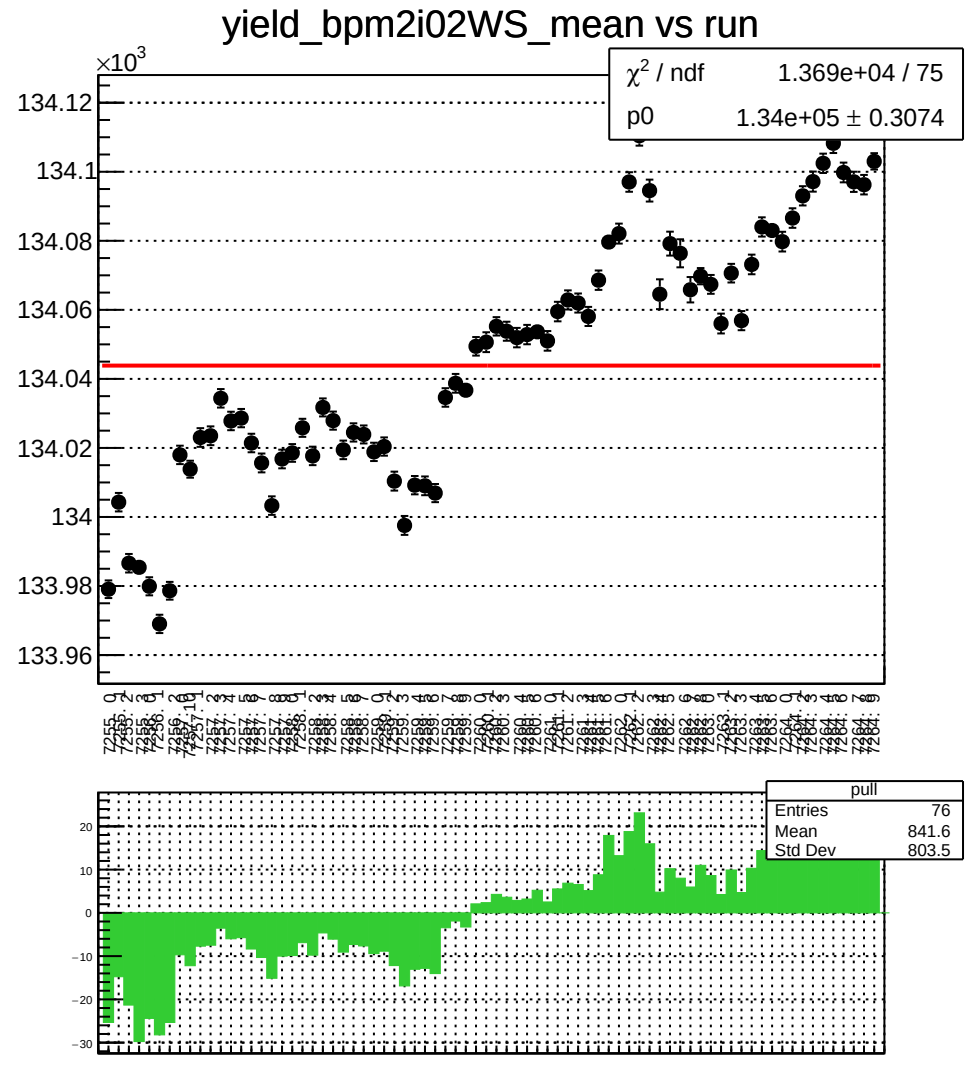

pull1D
Entries 76
Mean 3.302
Std Dev 2.762
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

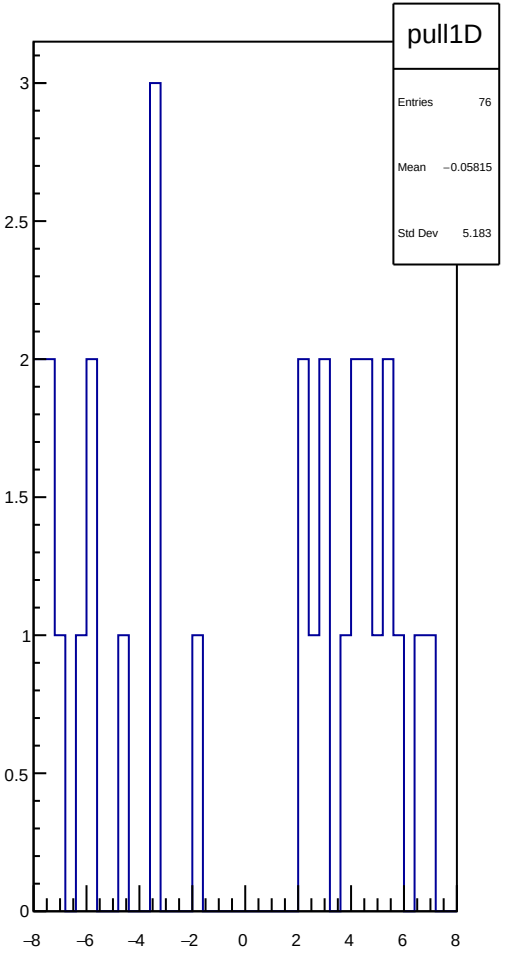

yield_bpm1i06WS_rms vs run
χ² / ndf 8900 / 75
p0 250.8 ± 0.2072
400
380
360
340
320
300
280
260
240
220

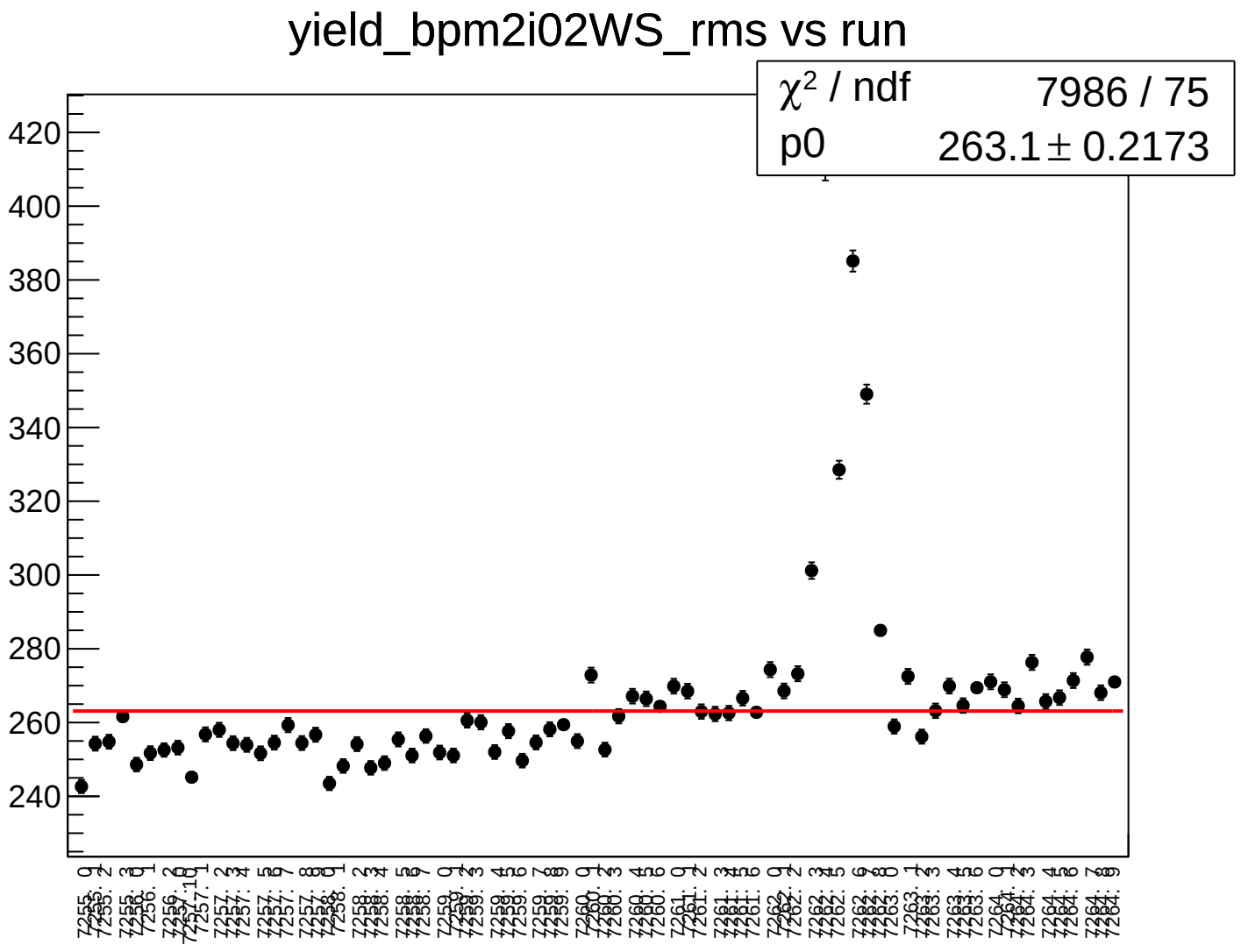

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2301 / 75
p0 1.285e+05 ± 0.2962
128.51
128.5
128.49
128.48
128.47
128.46
pull
Entries 76
Mean −3731
Std Dev 3768
10
5
0
−5
−10

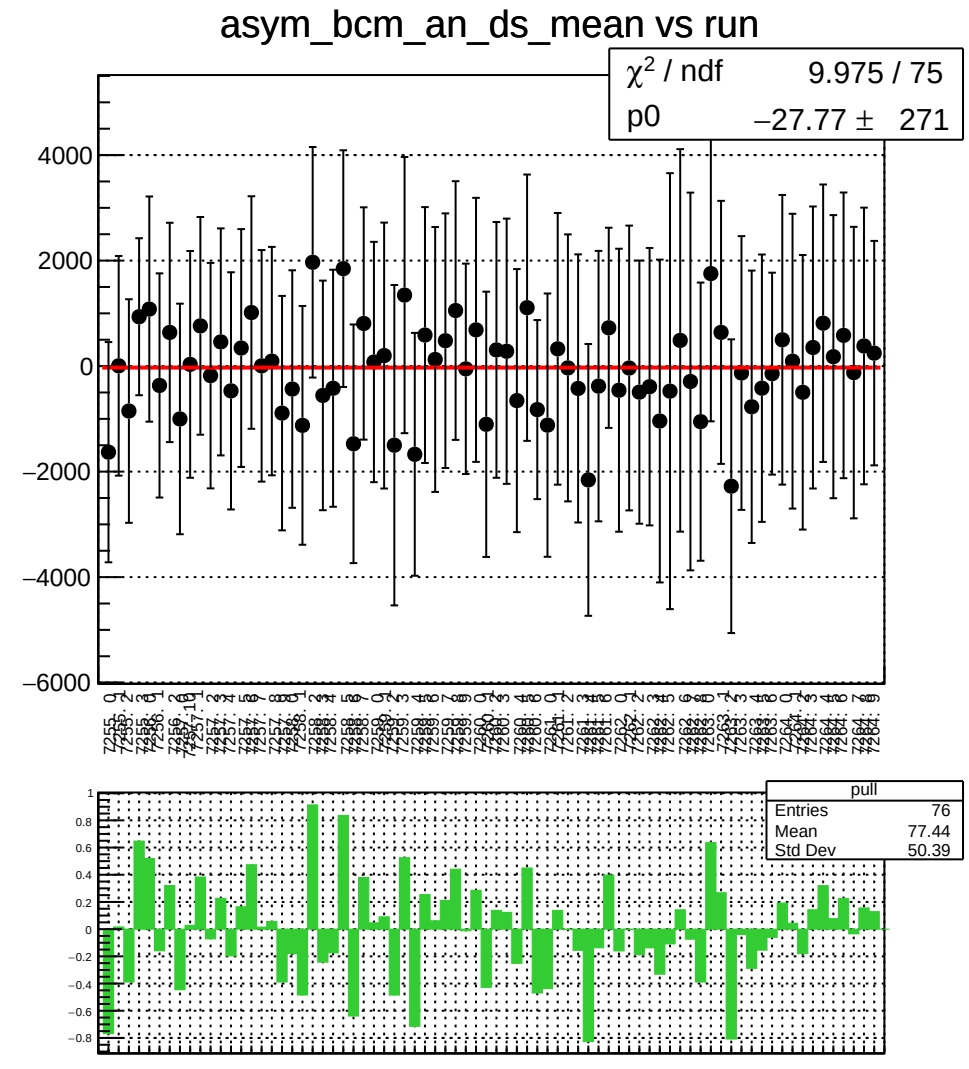

pull1D
Entries 76
Mean −0.3799
Std Dev 4.724
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

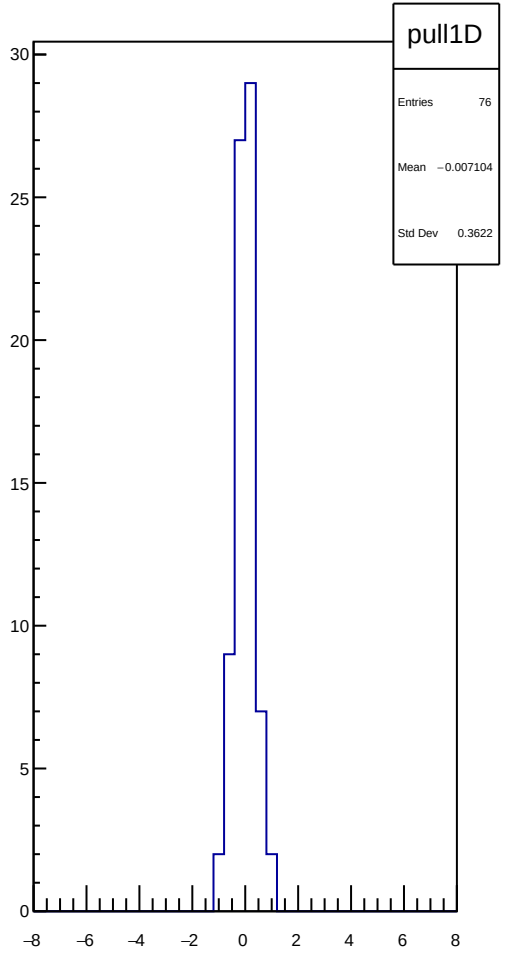

yield_bpm2i01WS_rms vs run
χ² / ndf 8101 / 75
p0 253.6 ± 0.2095
400
380
360
340
320
300
280
260
240
220

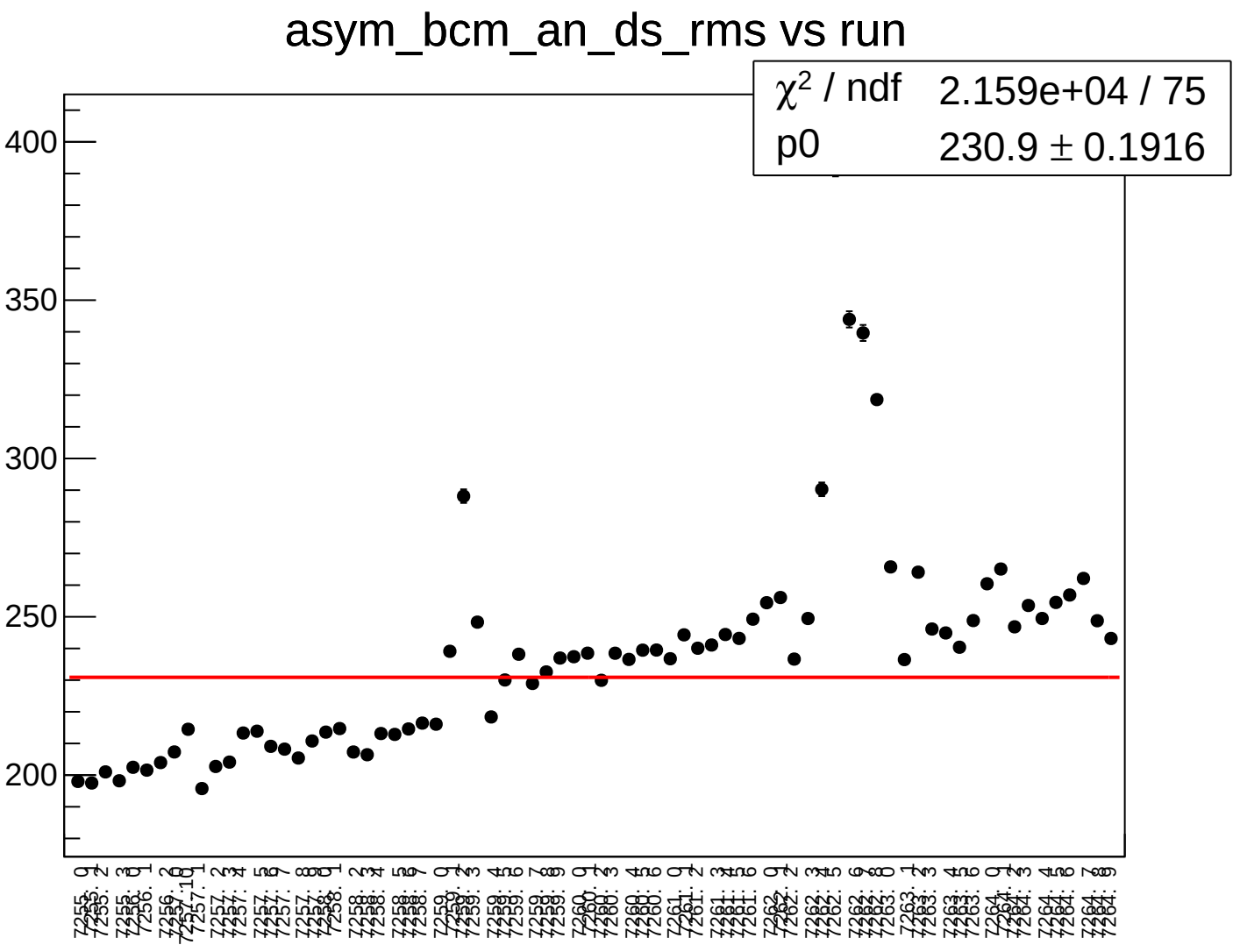

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.369e+04 / 75
p0 1.34e+05 ± 0.3074
134.12
134.1
134.08
134.06
134.04
134.02
134
133.98
133.96
pull
Entries 76
Mean 841.6
Std Dev 803.5
20
10
0
−10
−20
−30

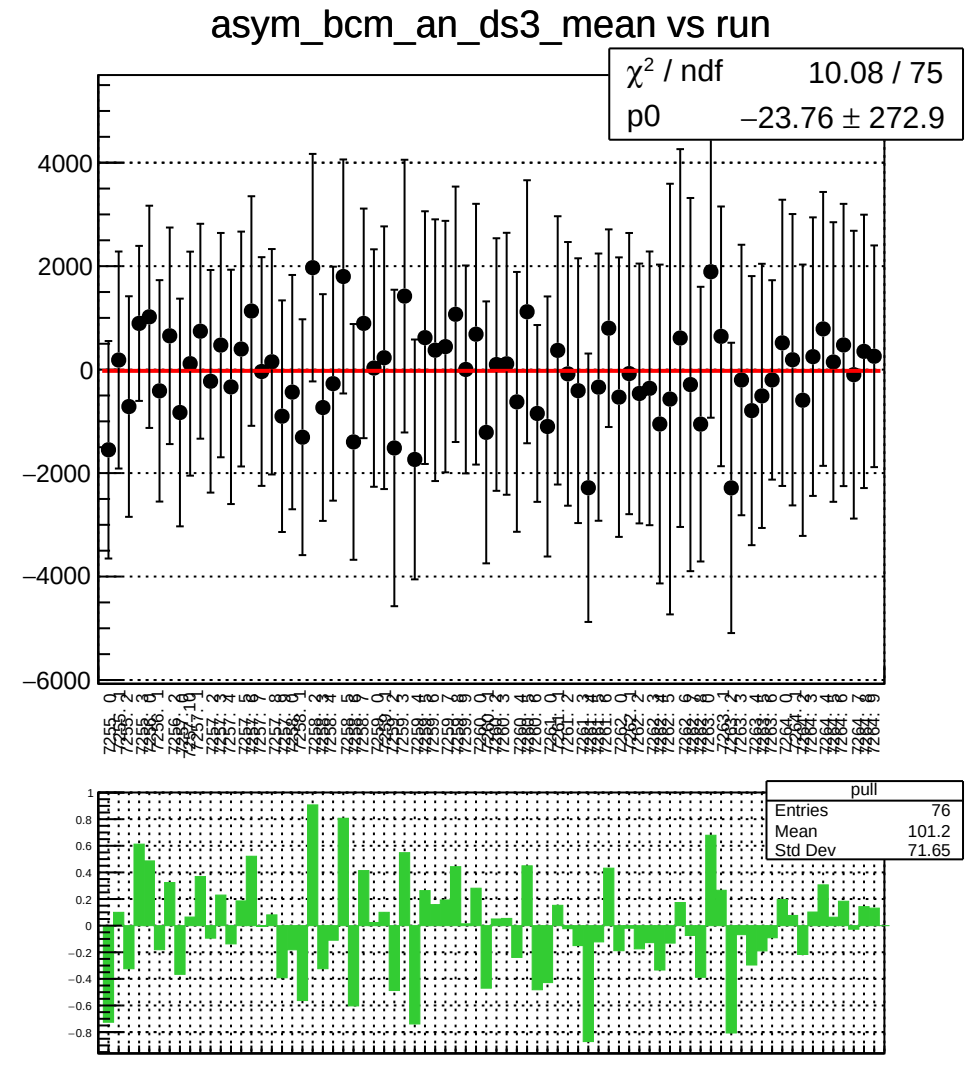

pull1D
Entries 76
Mean −0.05815
Std Dev 5.183
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

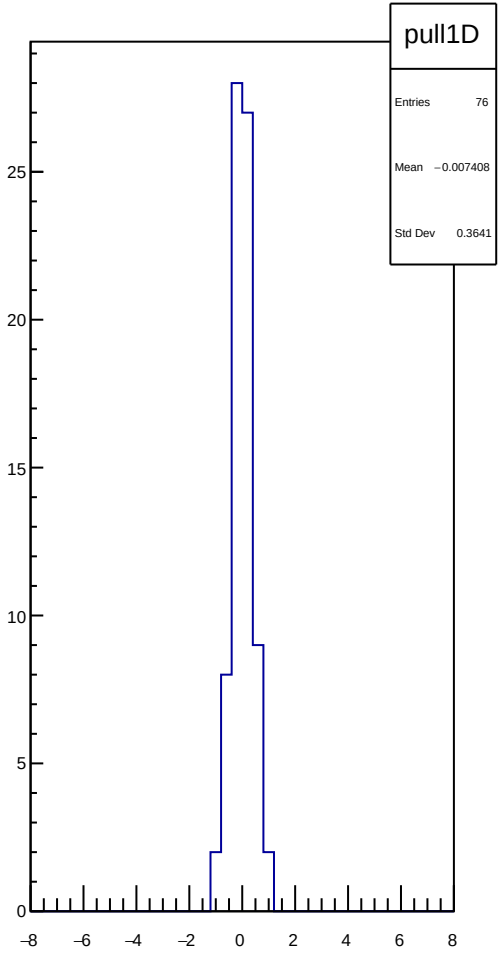

yield_bpm2i02WS_rms vs run
χ² / ndf 7986 / 75
p0 263.1 ± 0.2173
420
400
380
360
340
320
300
280
260
240

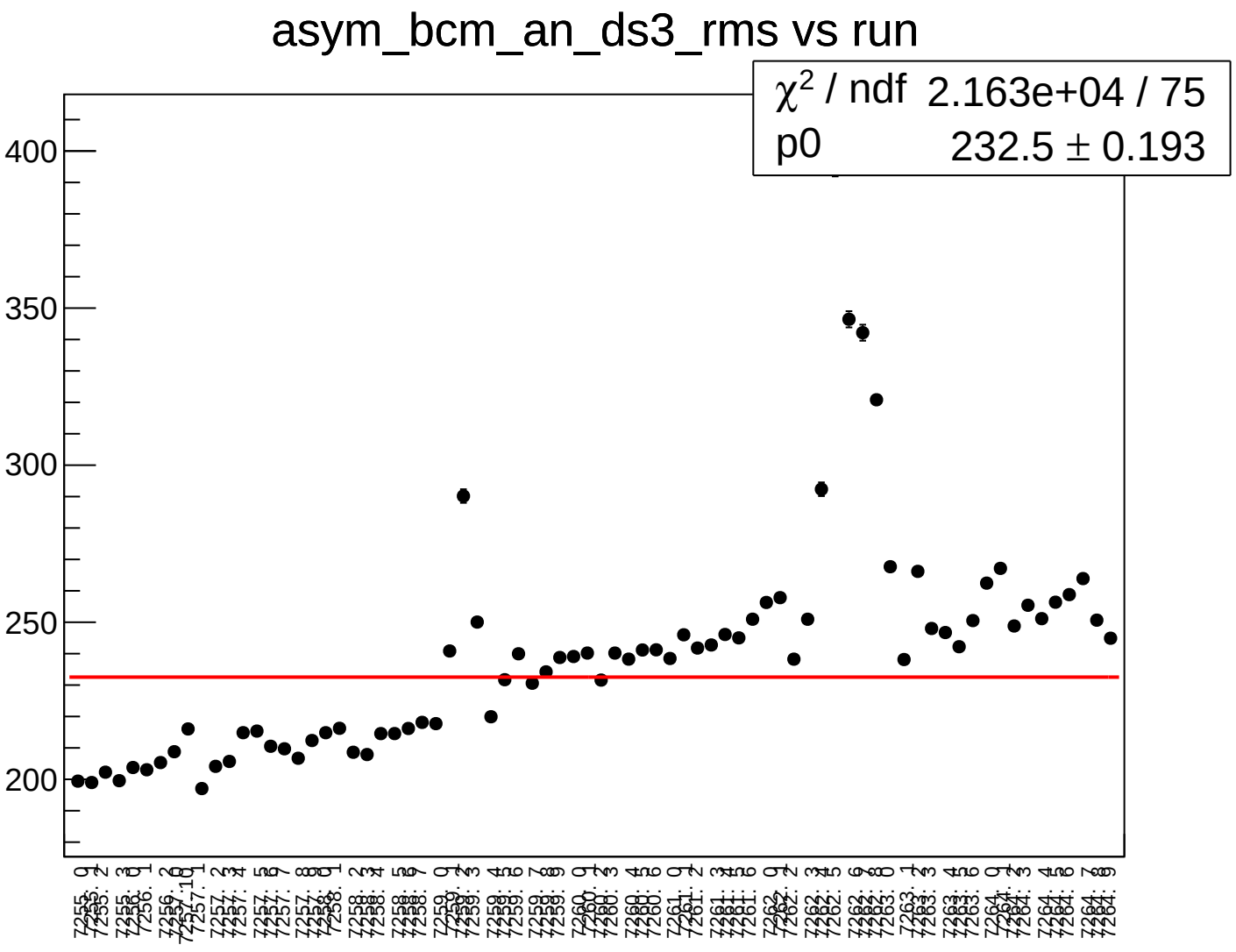

asym_bcm_an_ds_mean vs run
χ² / ndf 9.975 / 75
p0 −27.77 ± 271
pull
Entries 76
Mean 77.44
Std Dev 50.39

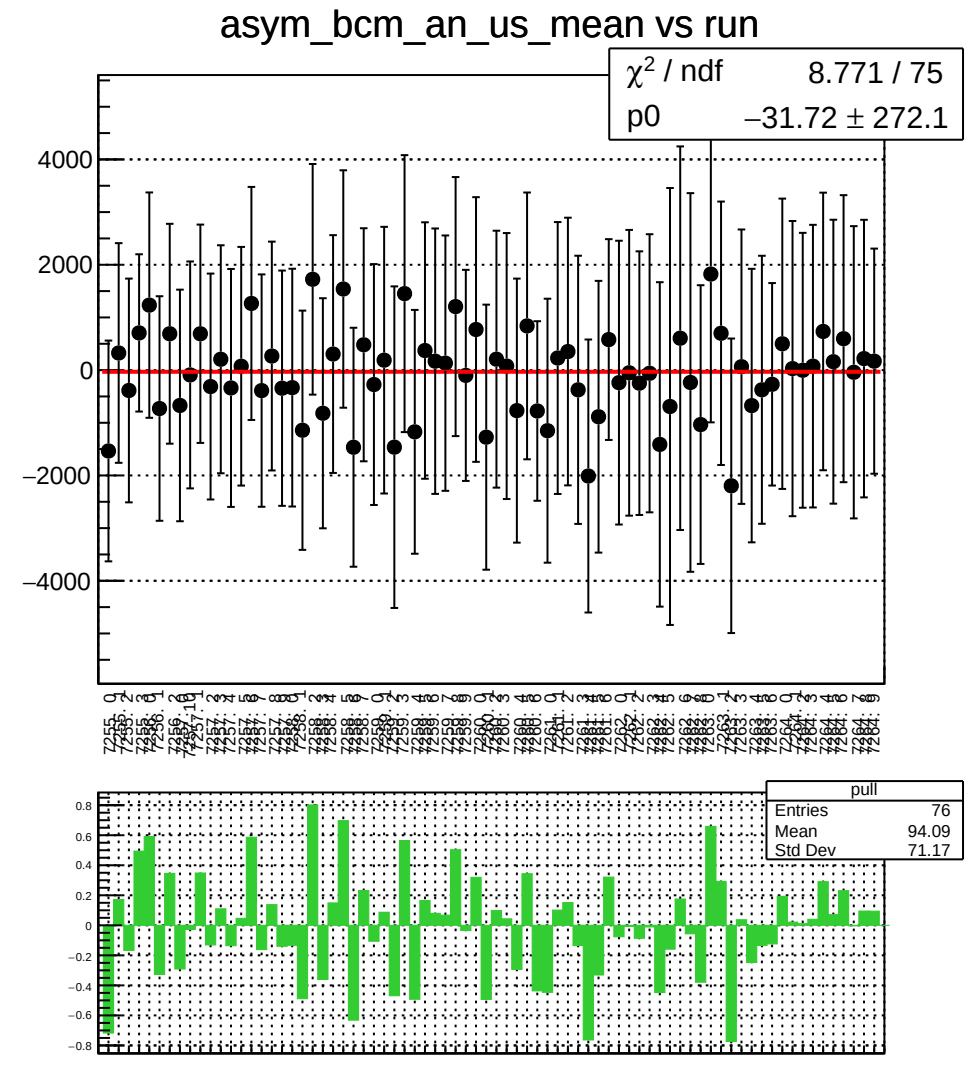

pull1D
Entries 76
Mean −0.007104
Std Dev 0.3622

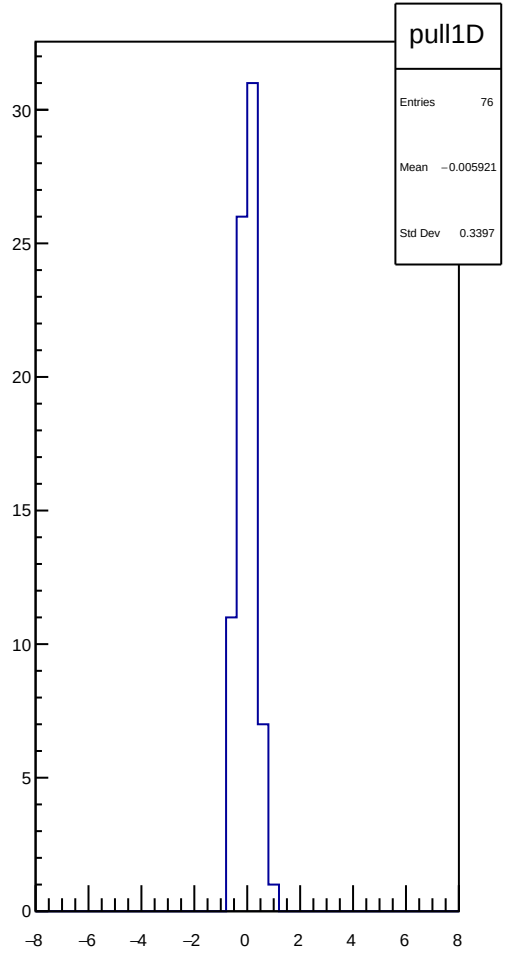

asym_bcm_an_ds_rms vs run
χ² / ndf 2.159e+04 / 75
p0 230.9 ± 0.1916
400
350
300
250
200

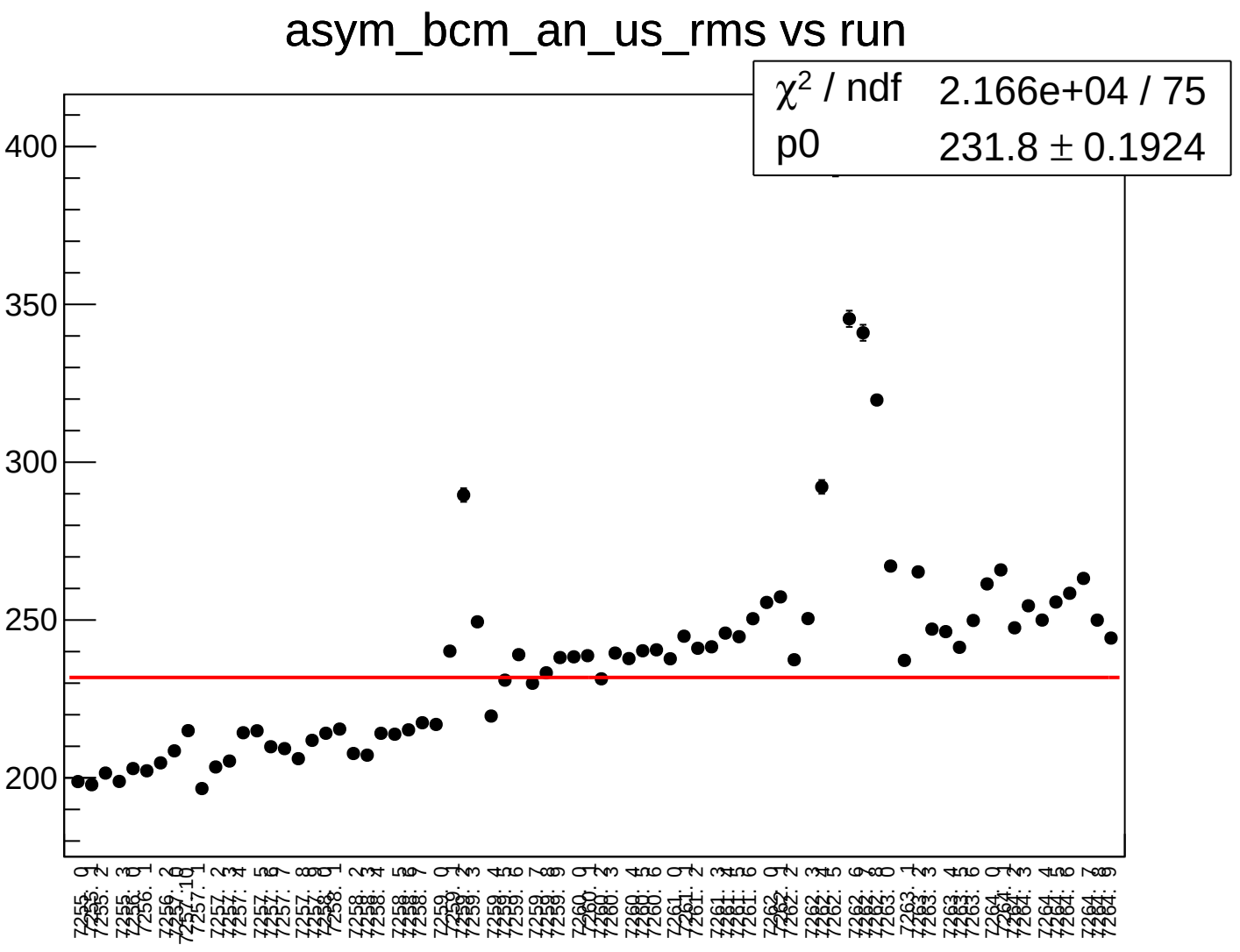

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.08 / 75
p0 −23.76 ± 272.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 101.2
Std Dev 71.65
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

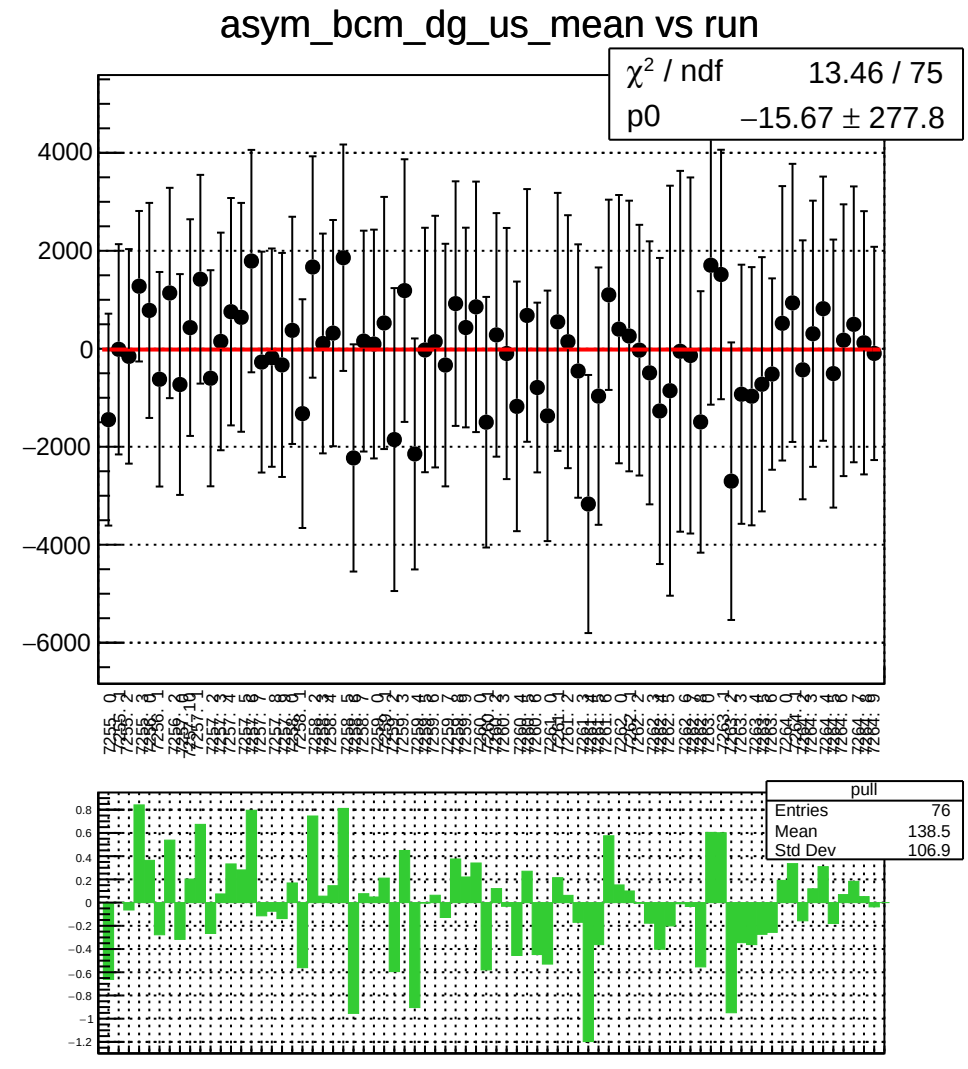

pull1D
Entries 76
Mean −0.007408
Std Dev 0.3641
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

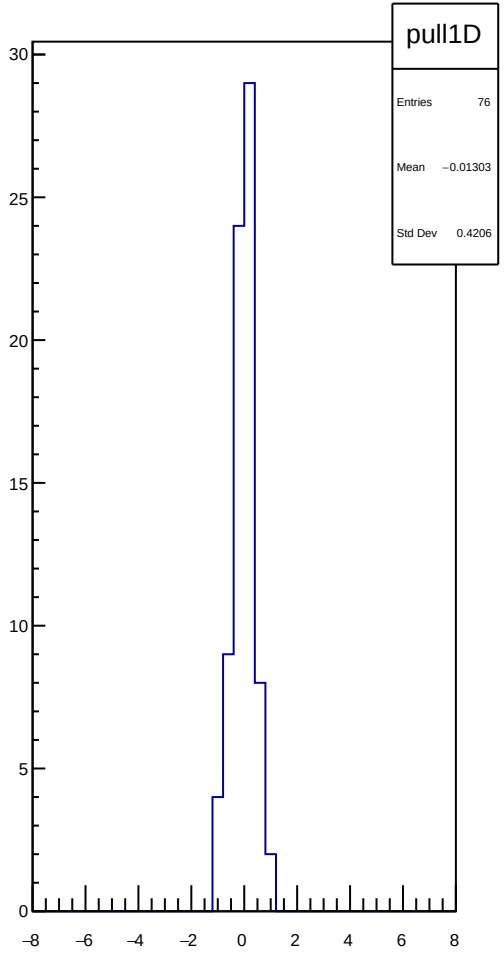

asym_bcm_an_ds3_rms vs run
χ² / ndf 2.163e+04 / 75
p0 232.5 ± 0.193
400
350
300
250
200

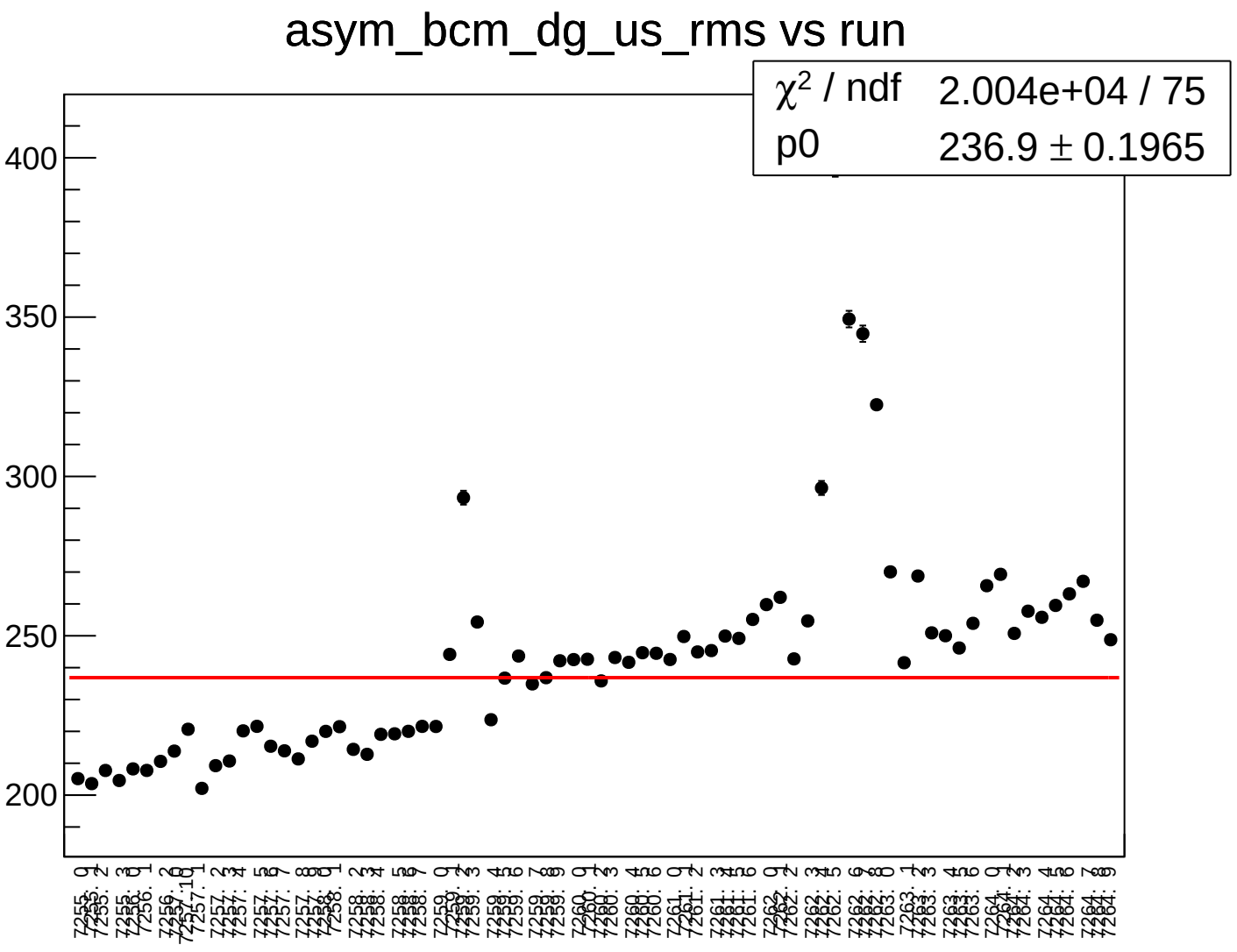

asym_bcm_an_us_mean vs run
χ² / ndf 8.771 / 75
p0 −31.72 ± 272.1
4000
2000
0
−2000
−4000
pull
Entries 76
Mean 94.09
Std Dev 71.17
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

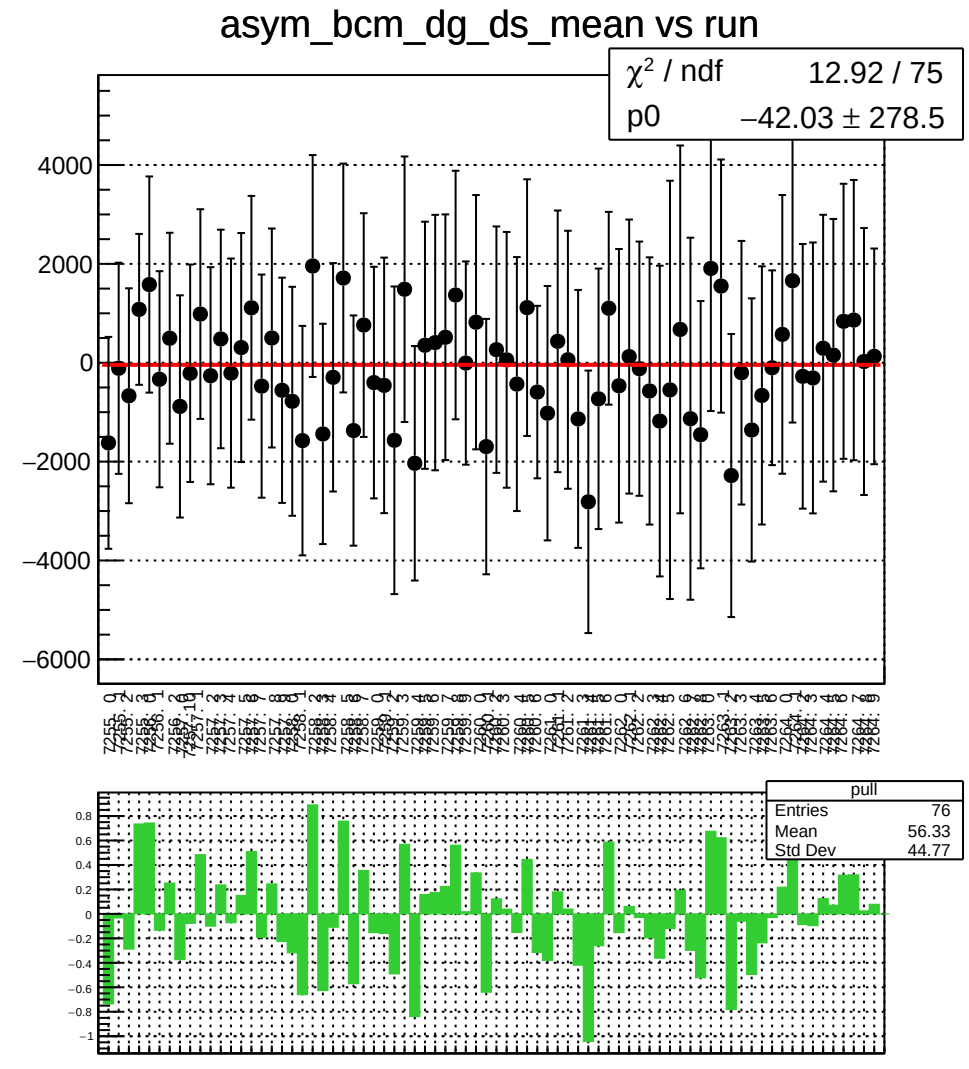

pull1D
Entries 76
Mean −0.005921
Std Dev 0.3397
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

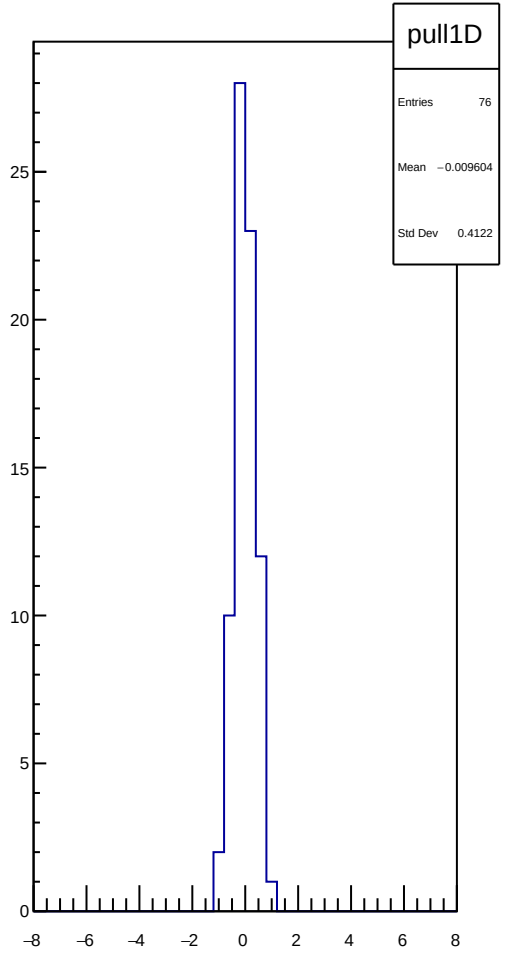

asym_bcm_an_us_rms vs run
χ² / ndf 2.166e+04 / 75
p0 231.8 ± 0.1924
400
350
300
250
200

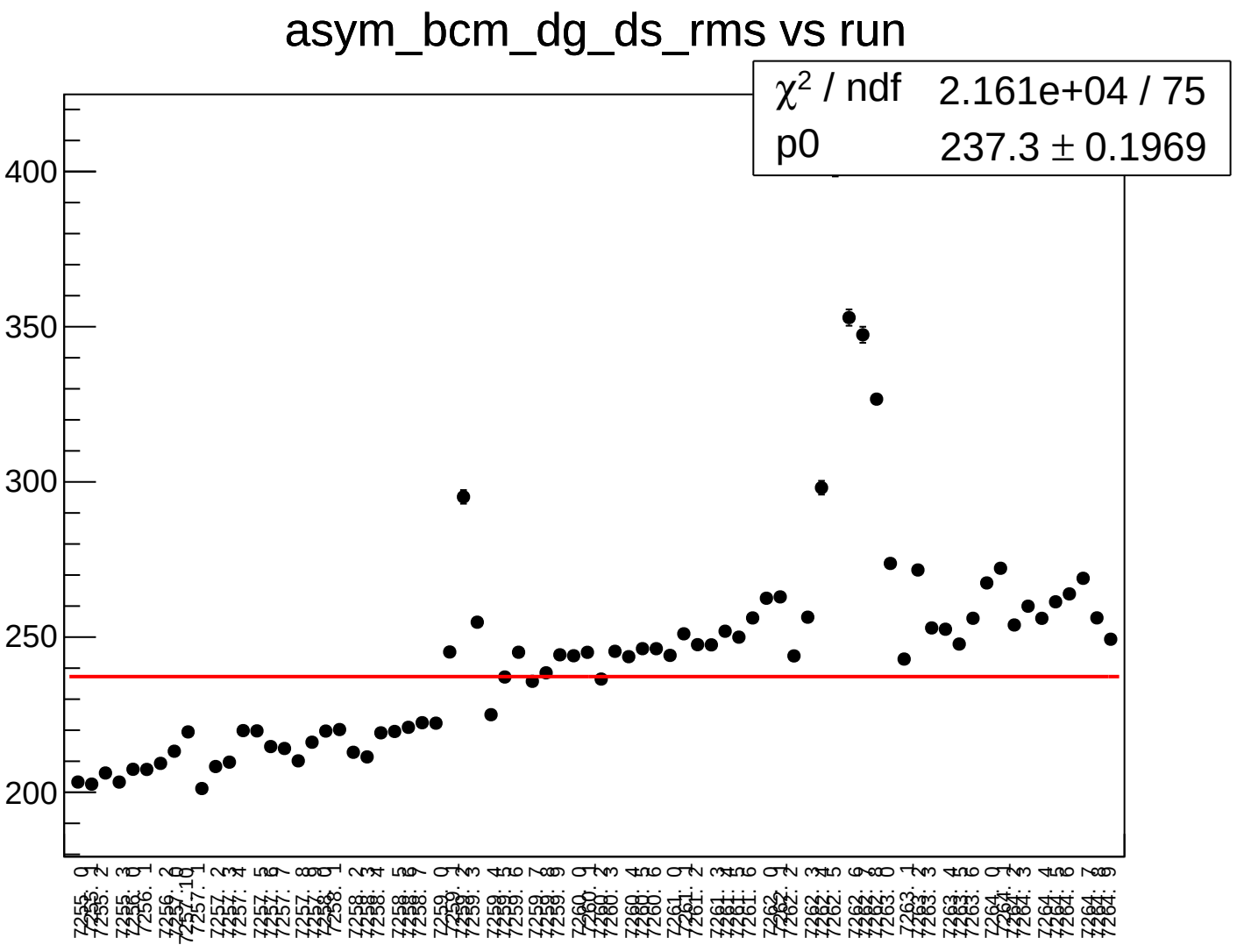

asym_bcm_dg_us_mean vs run
χ² / ndf 13.46 / 75
p0 −15.67 ± 277.8
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 138.5
Std Dev 106.9
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1
−1.2

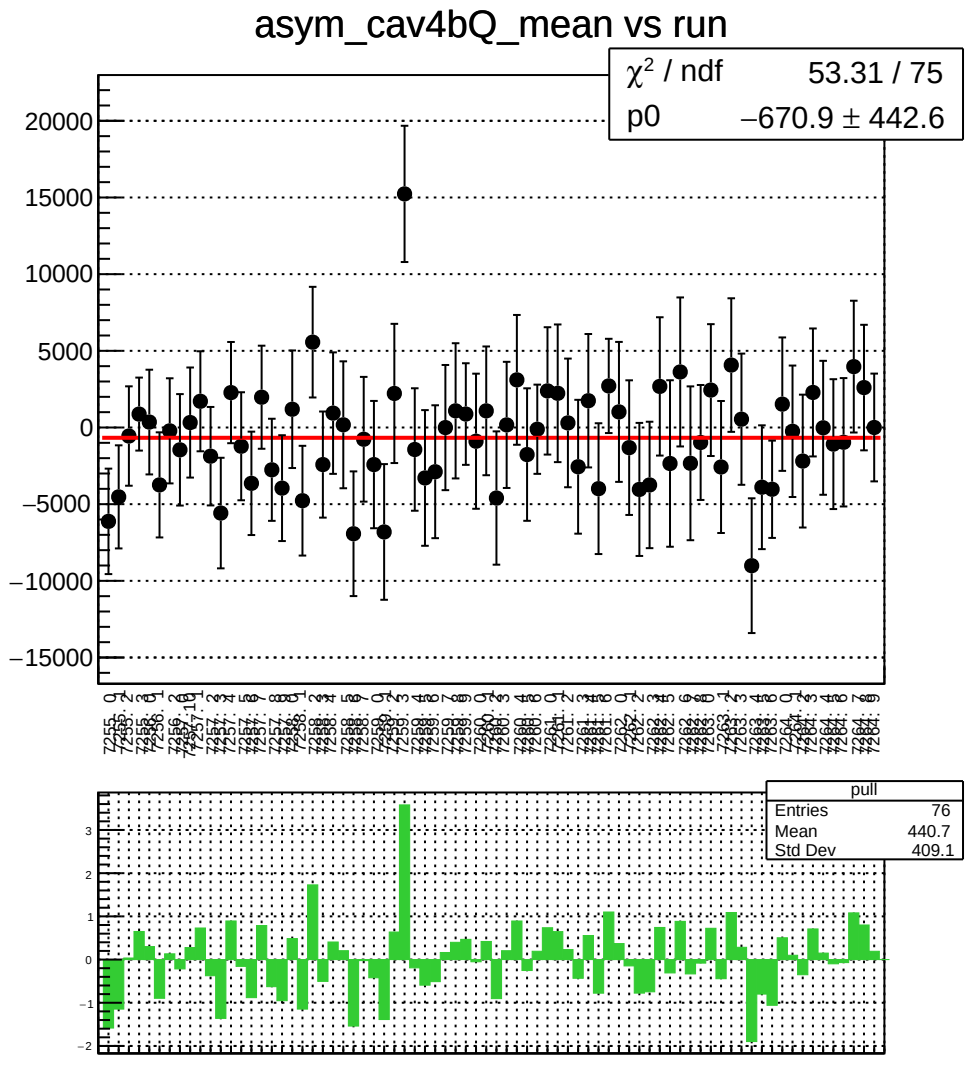

pull1D
Entries 76
Mean −0.01303
Std Dev 0.4206
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

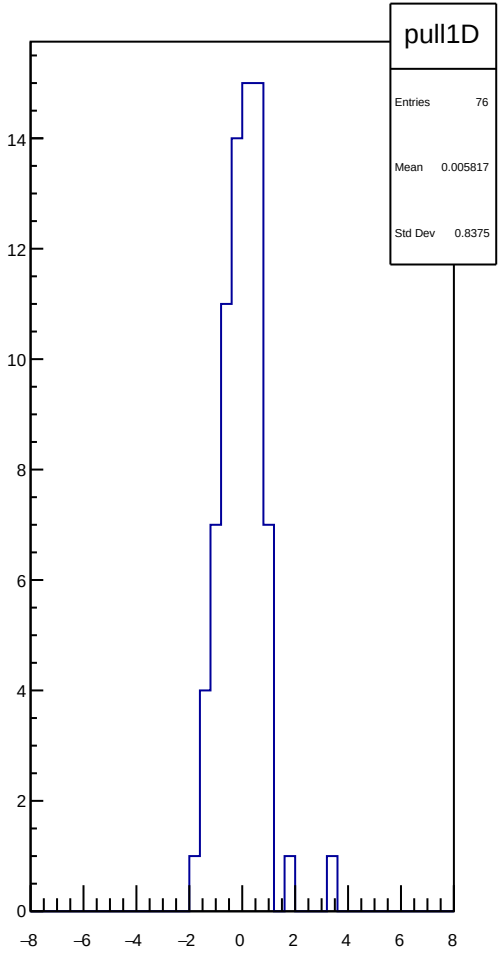

asym_bcm_dg_us_rms vs run
χ² / ndf 2.004e+04 / 75
p0 236.9 ± 0.1965
400
350
300
250
200

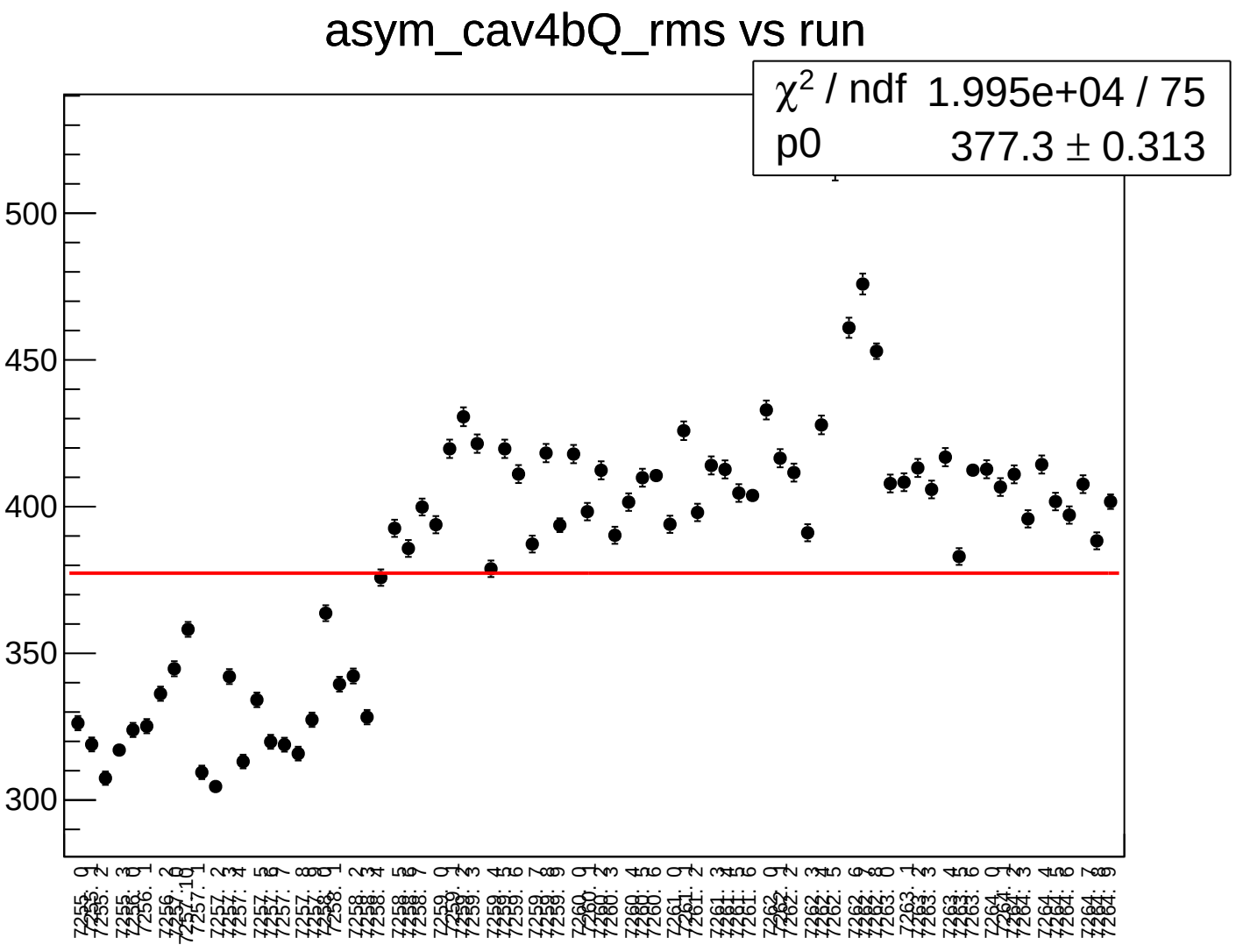

asym_bcm_dg_ds_mean vs run
χ² / ndf 12.92 / 75
p0 −42.03 ± 278.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 76
Mean 56.33
Std Dev 44.77
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8
−1

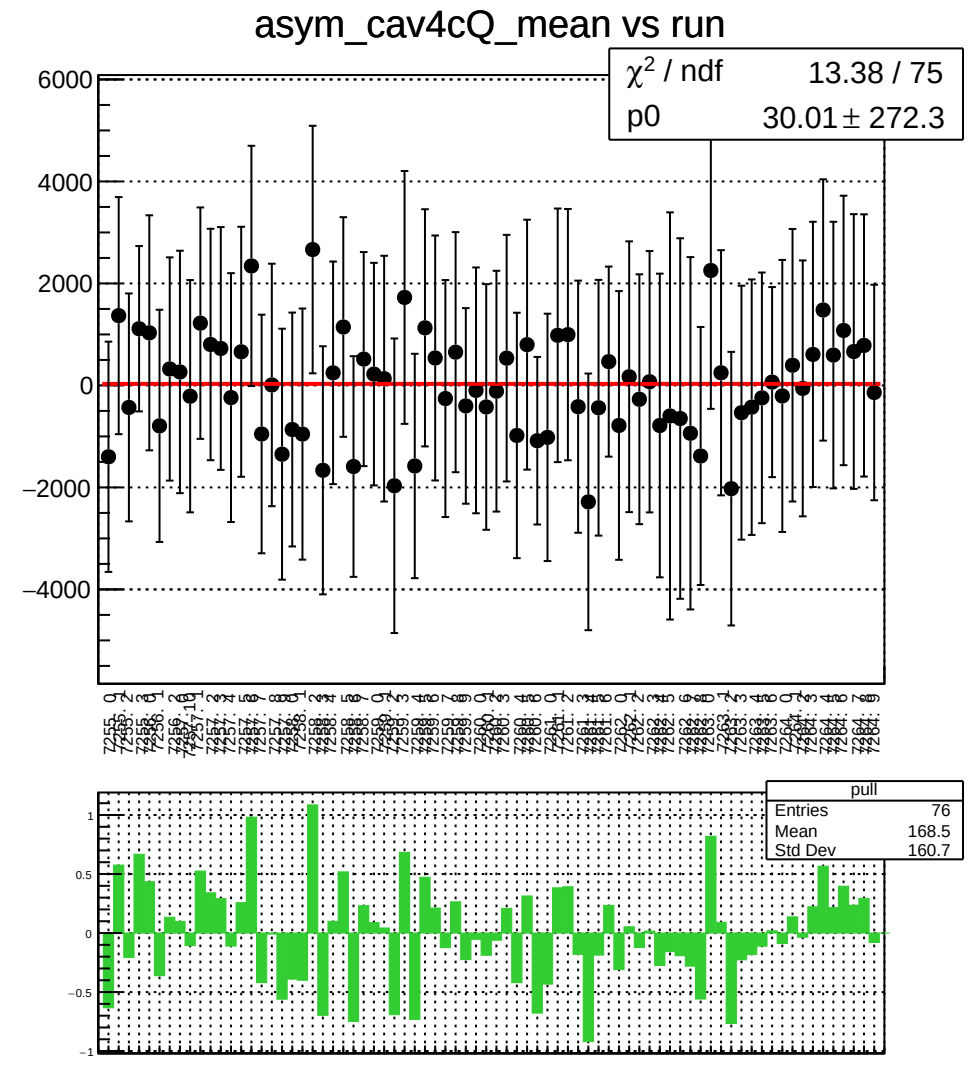

pull1D
Entries 76
Mean −0.009604
Std Dev 0.4122
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

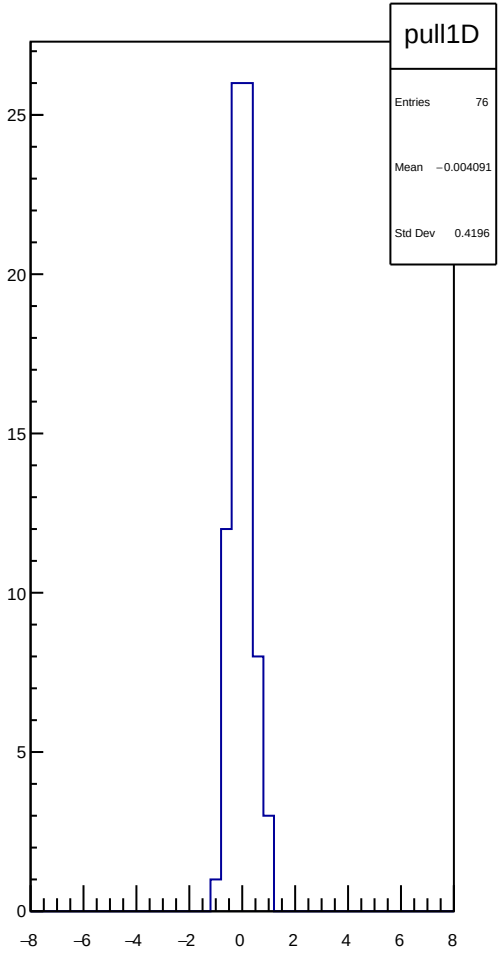

asym_bcm_dg_ds_rms vs run
χ² / ndf 2.161e+04 / 75
p0 237.3 ± 0.1969
400
350
300
250
200

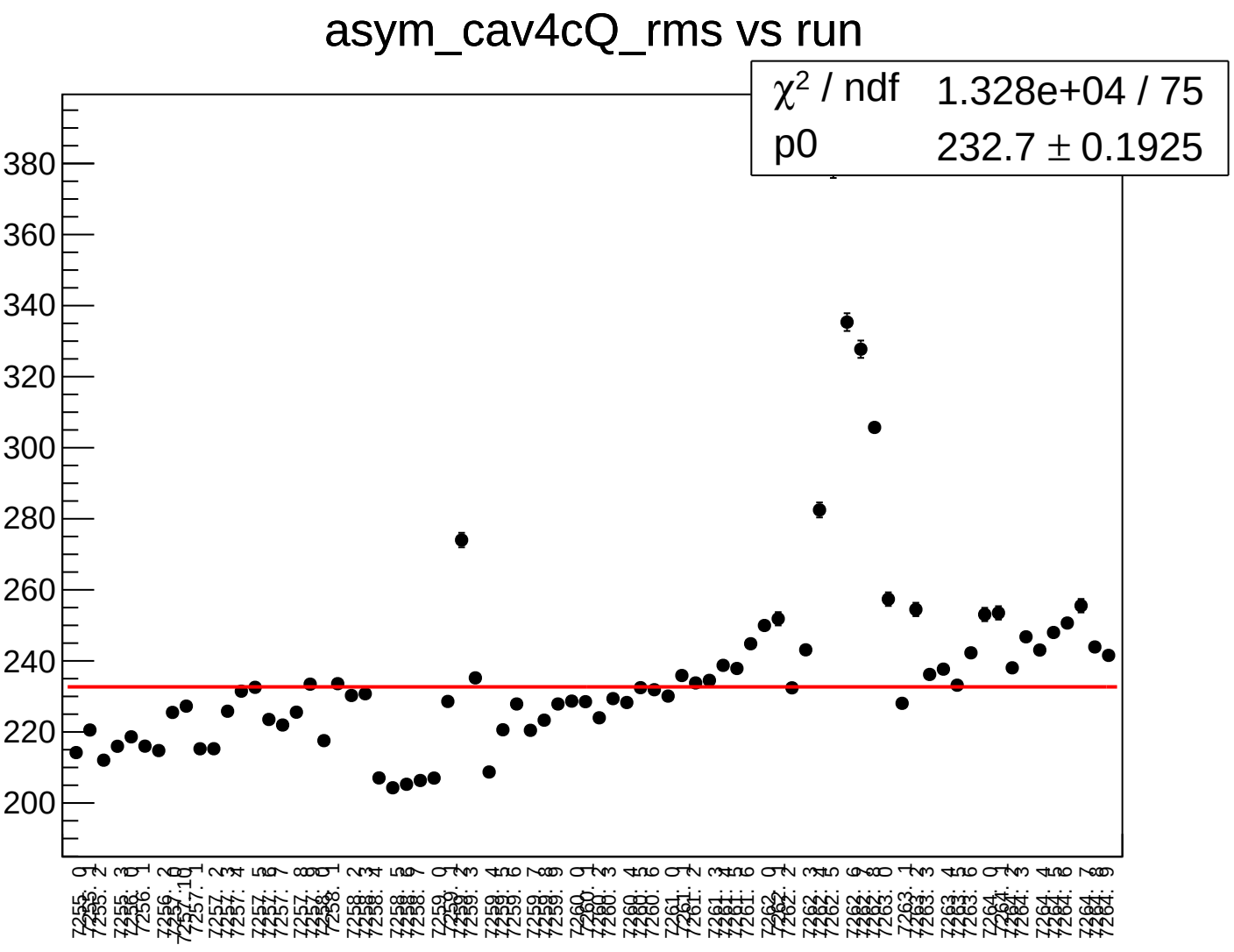

asym_cav4bQ_mean vs run
χ² / ndf 53.31 / 75
p0 −670.9 ± 442.6
pull
Entries 76
Mean 440.7
Std Dev 409.1

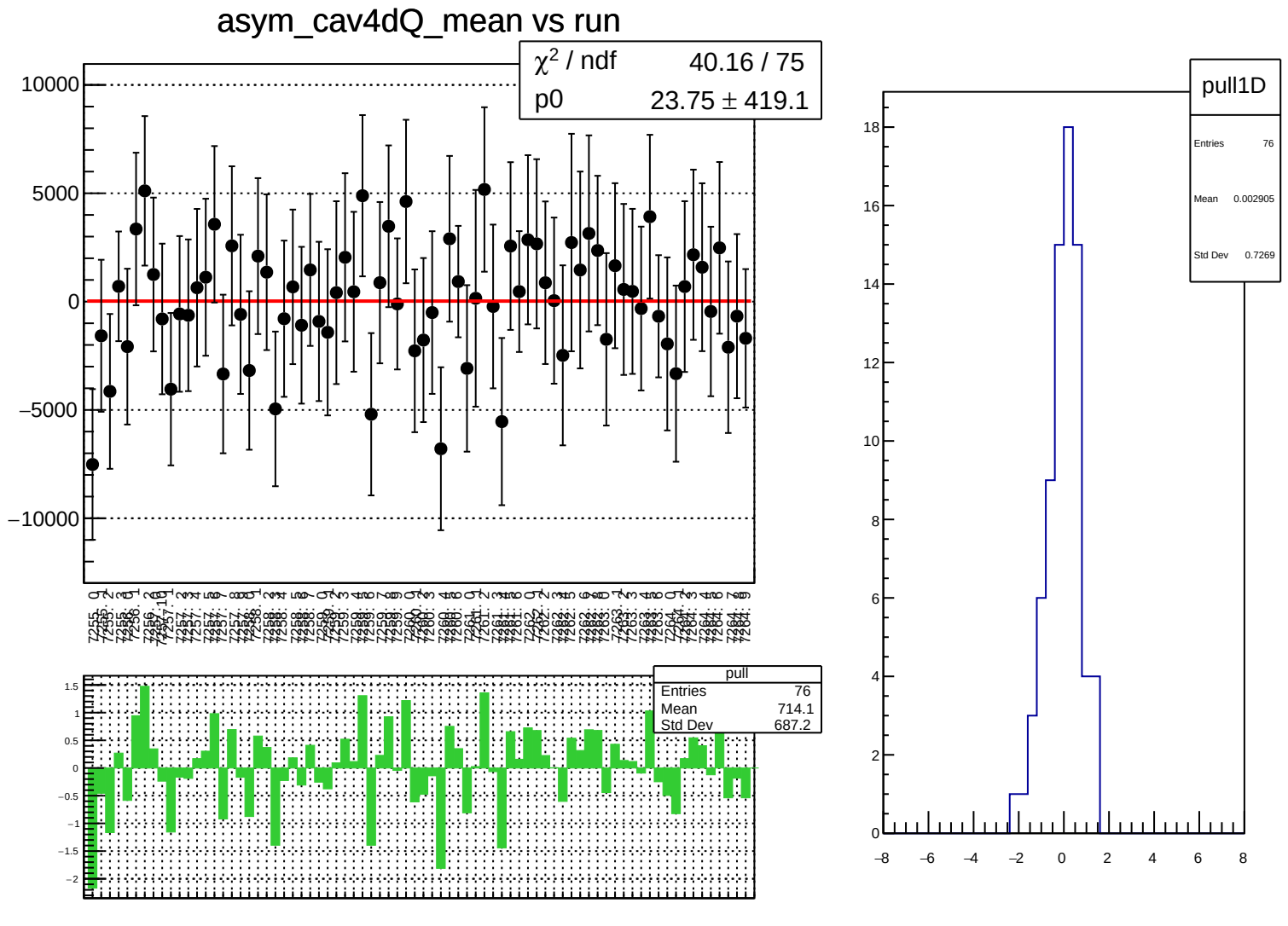

pull1D
Entries 76
Mean 0.005817
Std Dev 0.8375

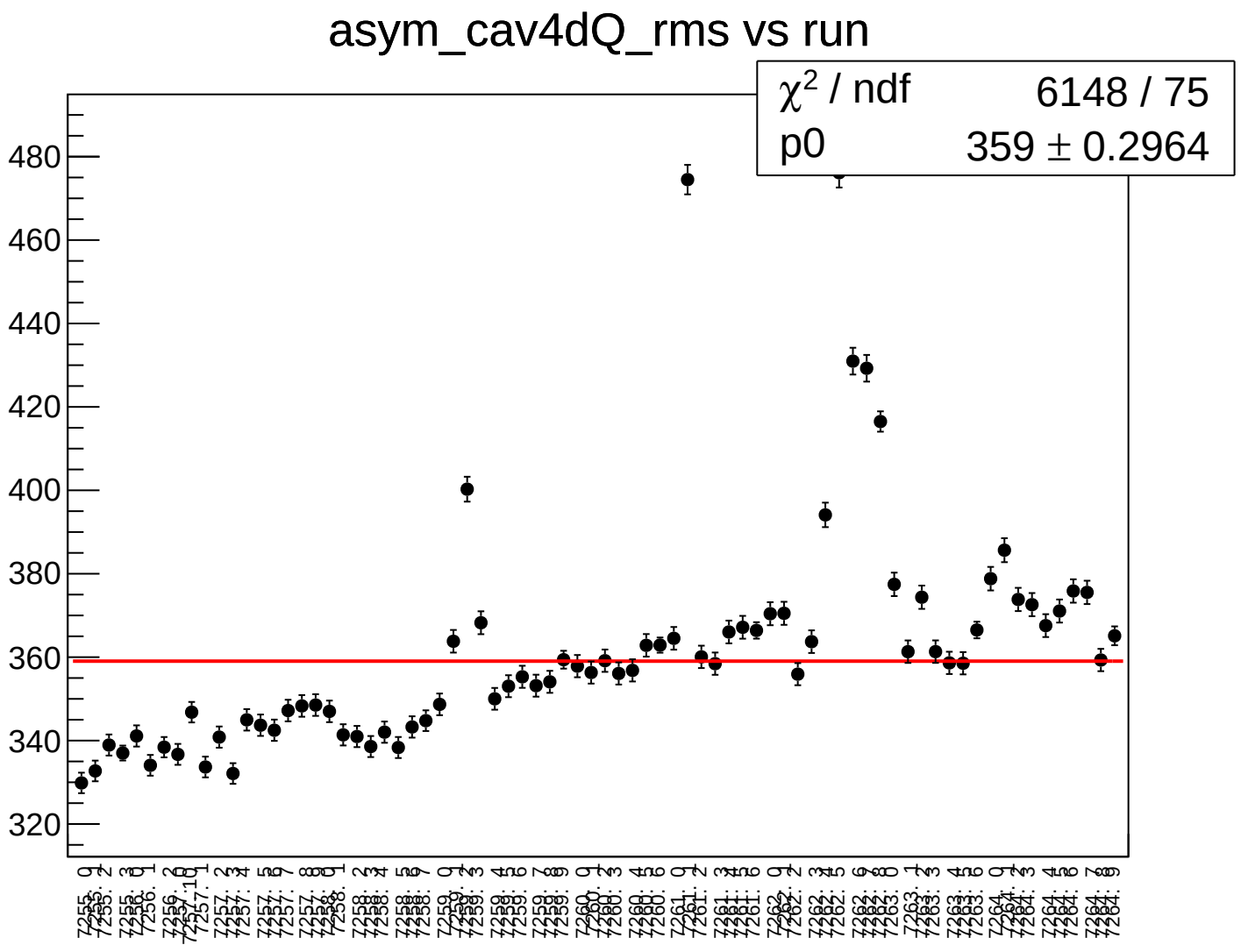

asym_cav4bQ_rms vs run
χ² / ndf 1.995e+04 / 75
p0 377.3 ± 0.313
500
450
400
350
300

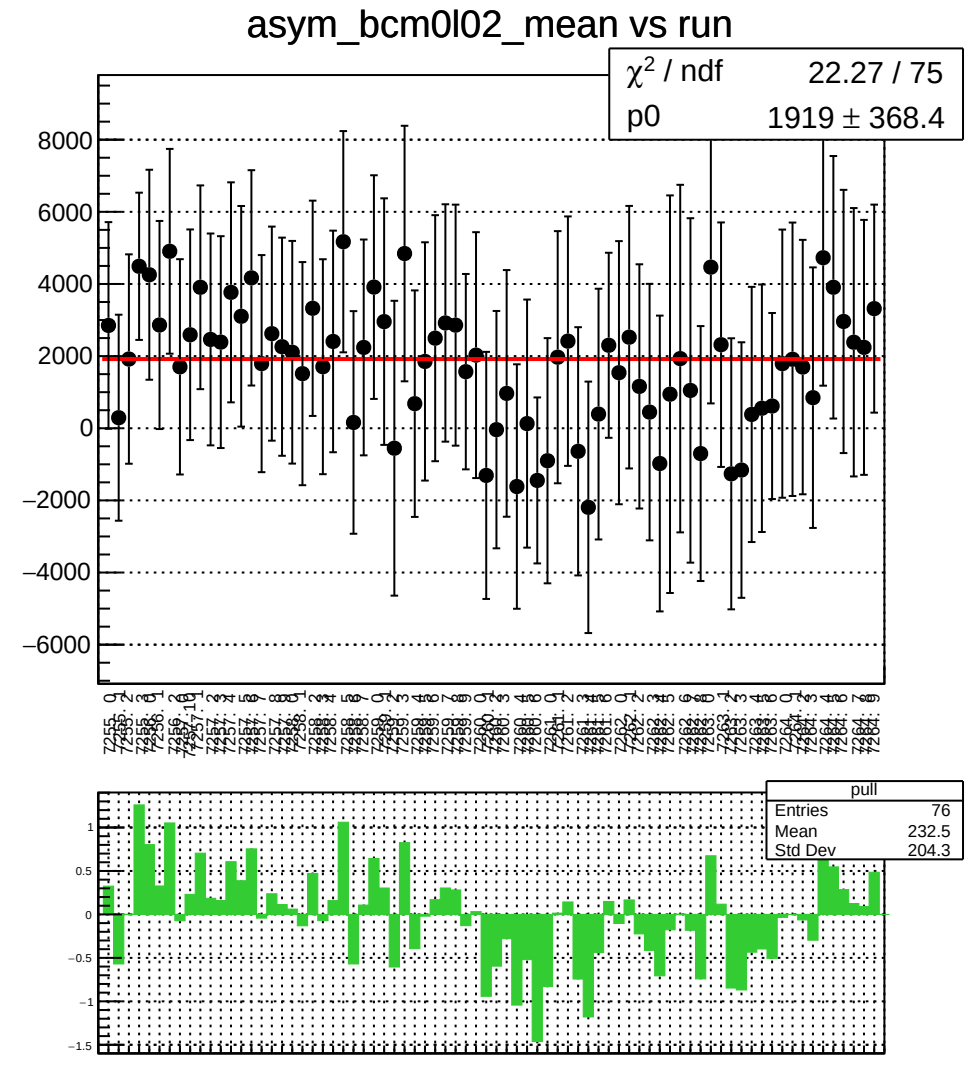

asym_cav4cQ_mean vs run
χ² / ndf 13.38 / 75
p0 30.01 ± 272.3
pull
Entries 76
Mean 168.5
Std Dev 160.7

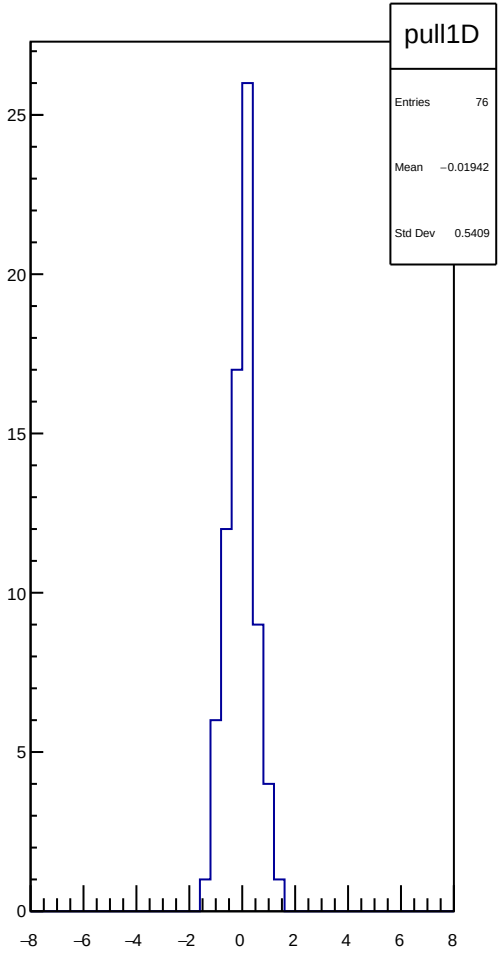

pull1D
Entries 76
Mean −0.004091
Std Dev 0.4196

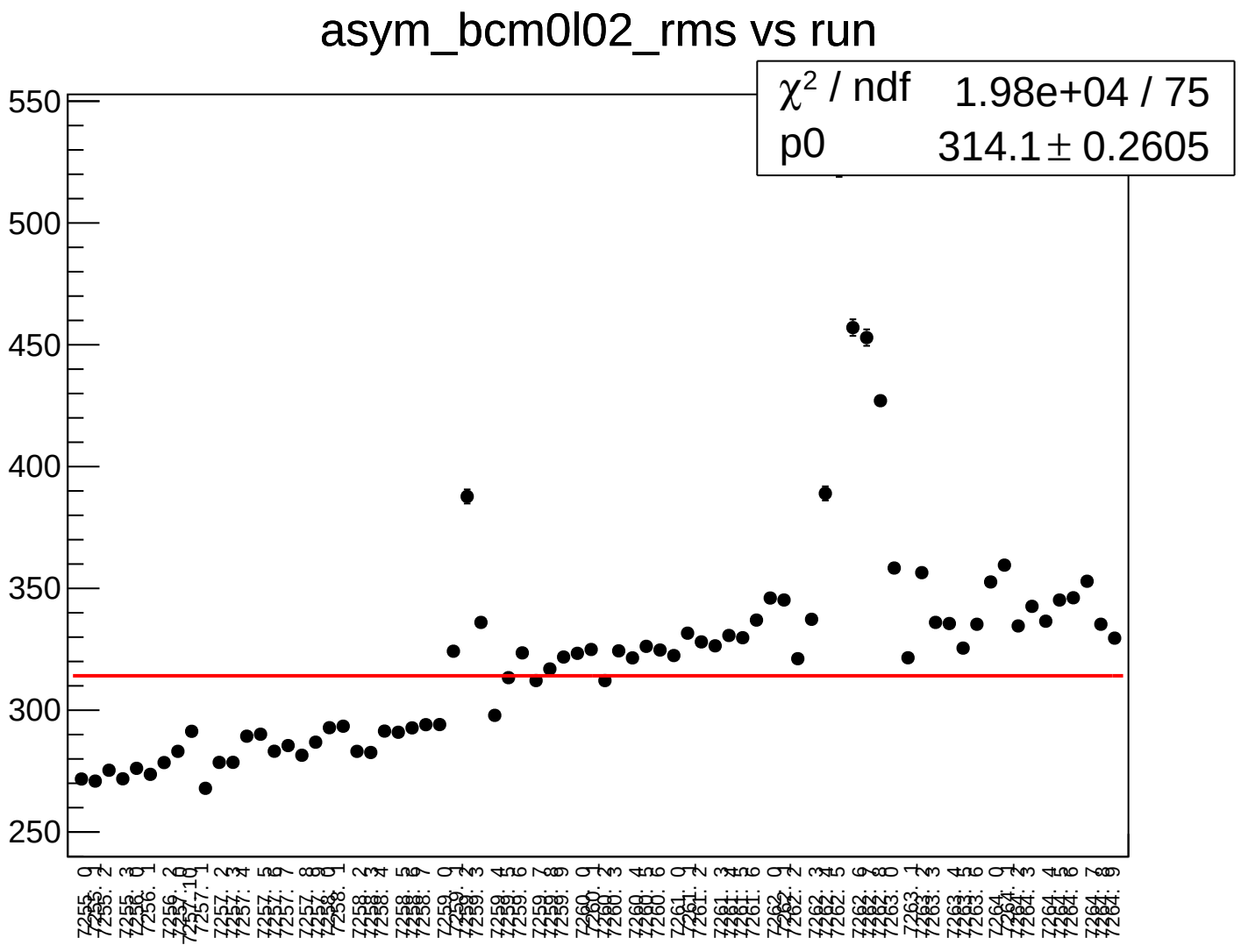

asym_cav4cQ_rms vs run
χ² / ndf 1.328e+04 / 75
p0 232.7 ± 0.1925
380
360
340
320
300
280
260
240
220
200

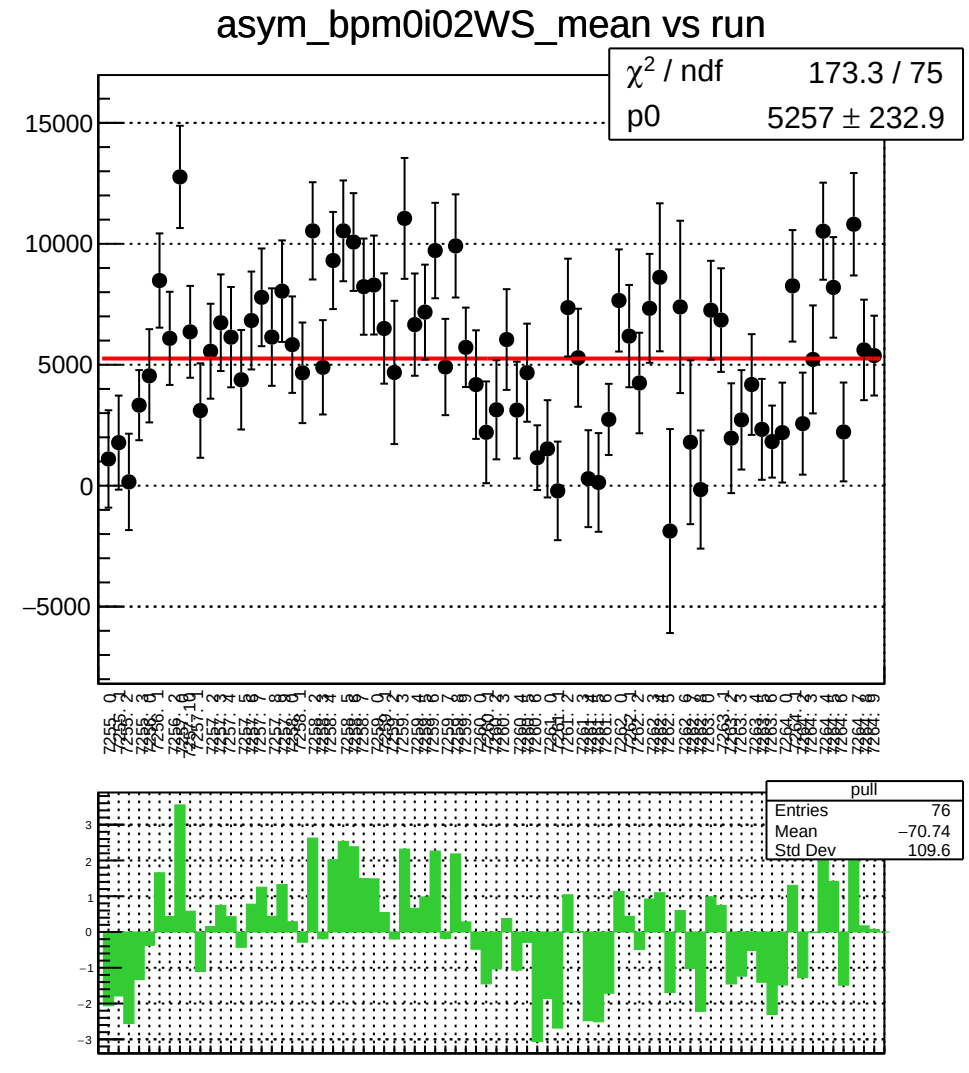

asym_cav4dQ_mean vs run
χ² / ndf 40.16 / 75
p0 23.75 ± 419.1
10000
5000
0
−5000
−10000
pull
Entries 76
Mean 714.1
Std Dev 687.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 76
Mean 0.002905
Std Dev 0.7269
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

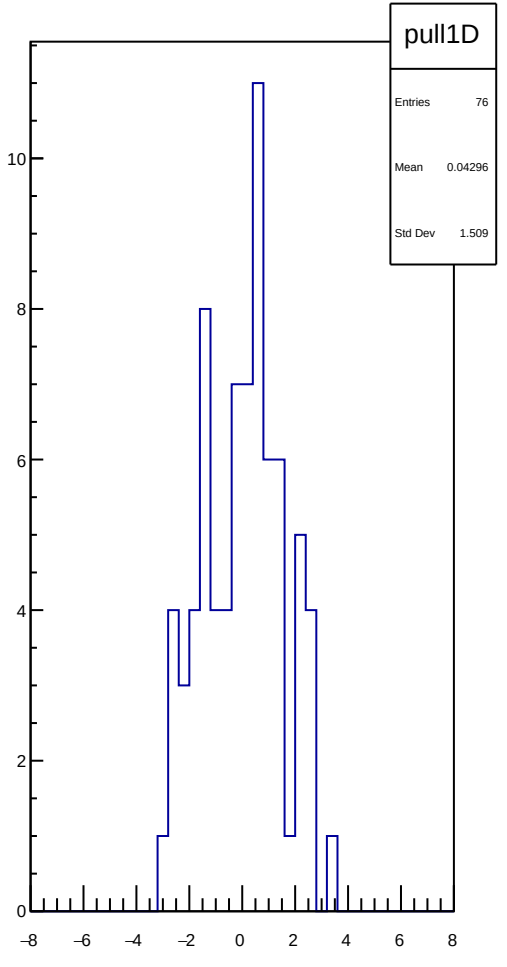

asym_cav4dQ_rms vs run
χ² / ndf 6148 / 75
p0 359 ± 0.2964
480
460
440
420
400
380
360
340
320

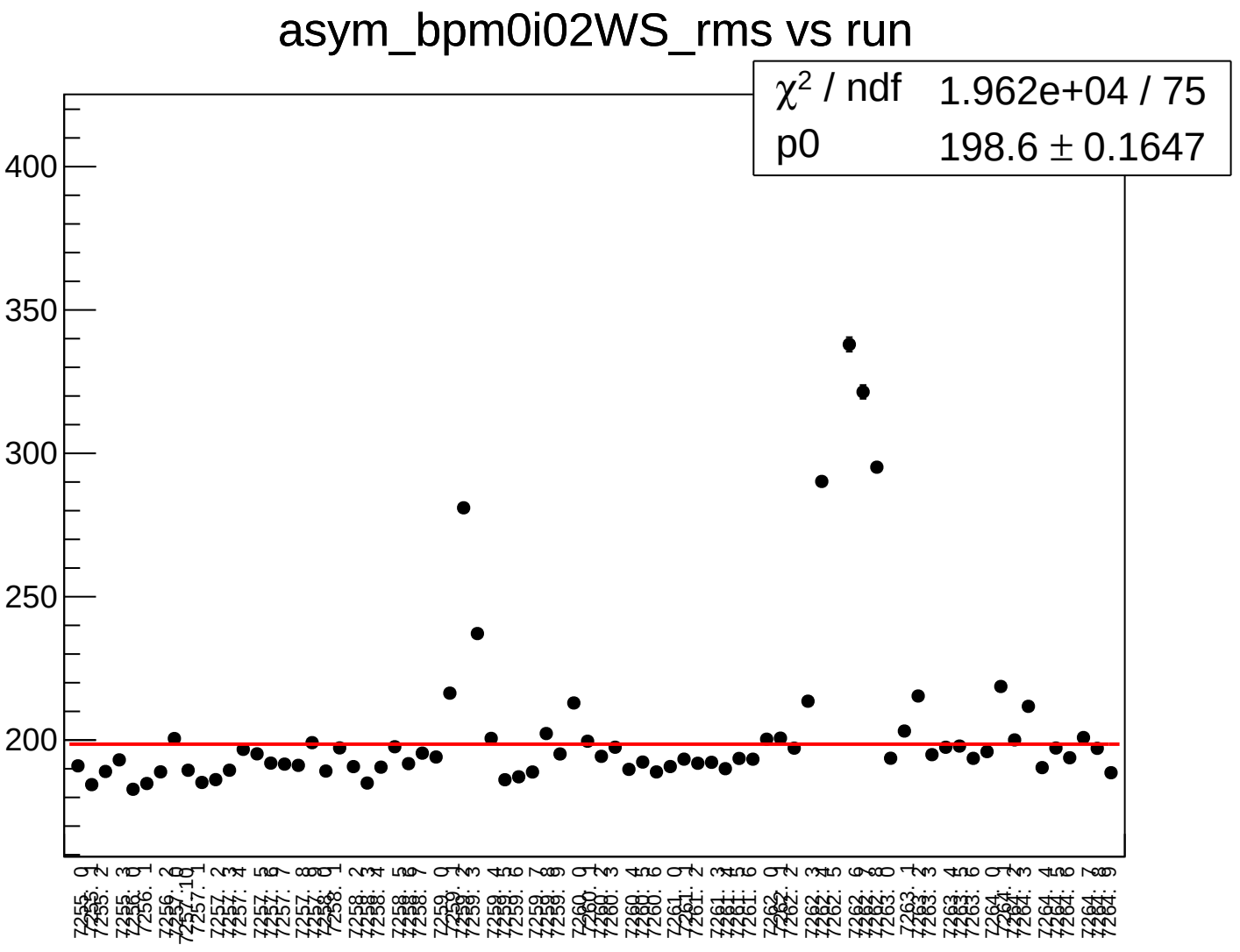

asym_bcm0l02_mean vs run
χ² / ndf 22.27 / 75
p0 1919 ± 368.4
pull
Entries 76
Mean 232.5
Std Dev 204.3

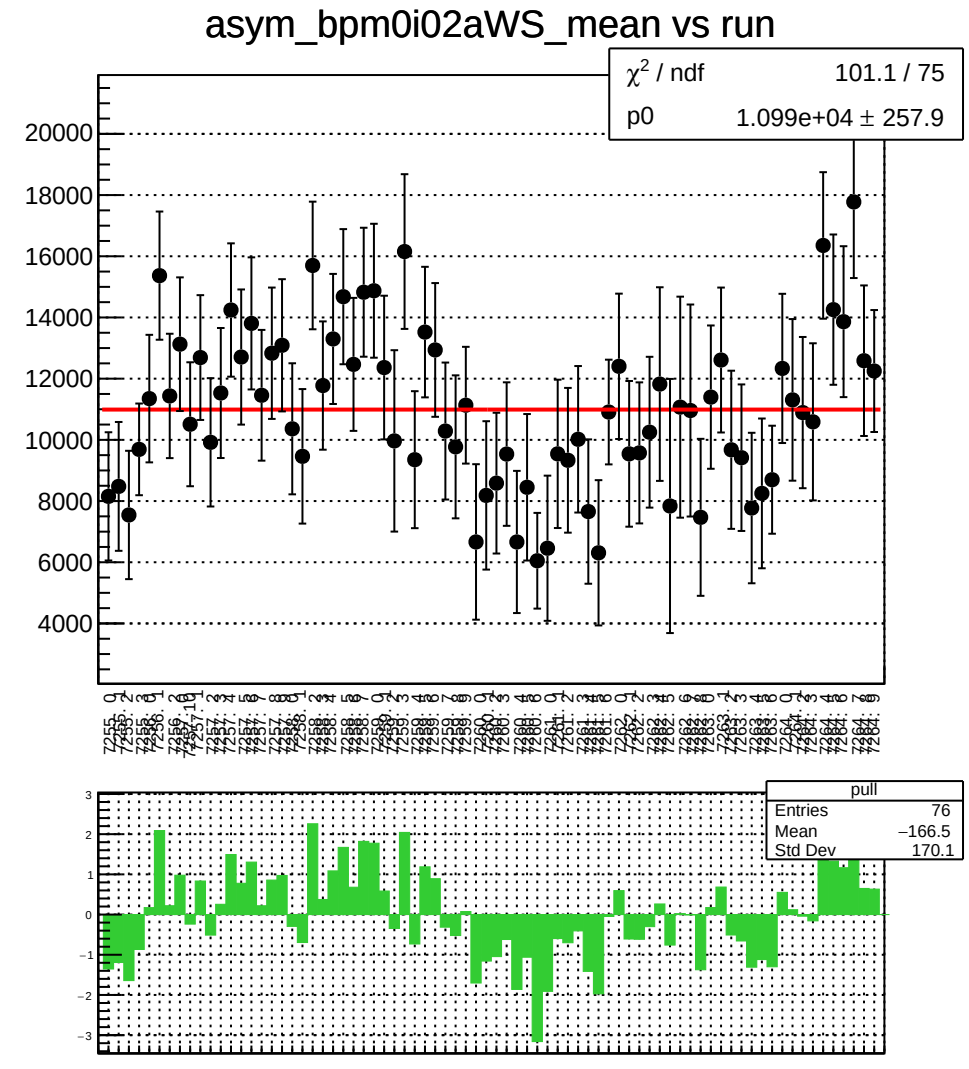

pull1D
Entries 76
Mean −0.01942
Std Dev 0.5409

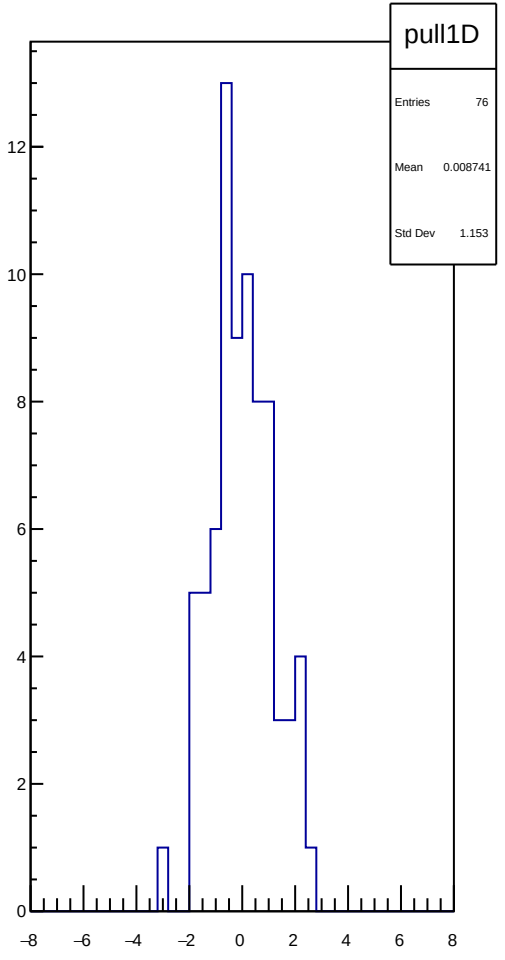

asym_bcm0l02_rms vs run
χ² / ndf 1.98e+04 / 75
p0 314.1 ± 0.2605
550
500
450
400
350
300
250

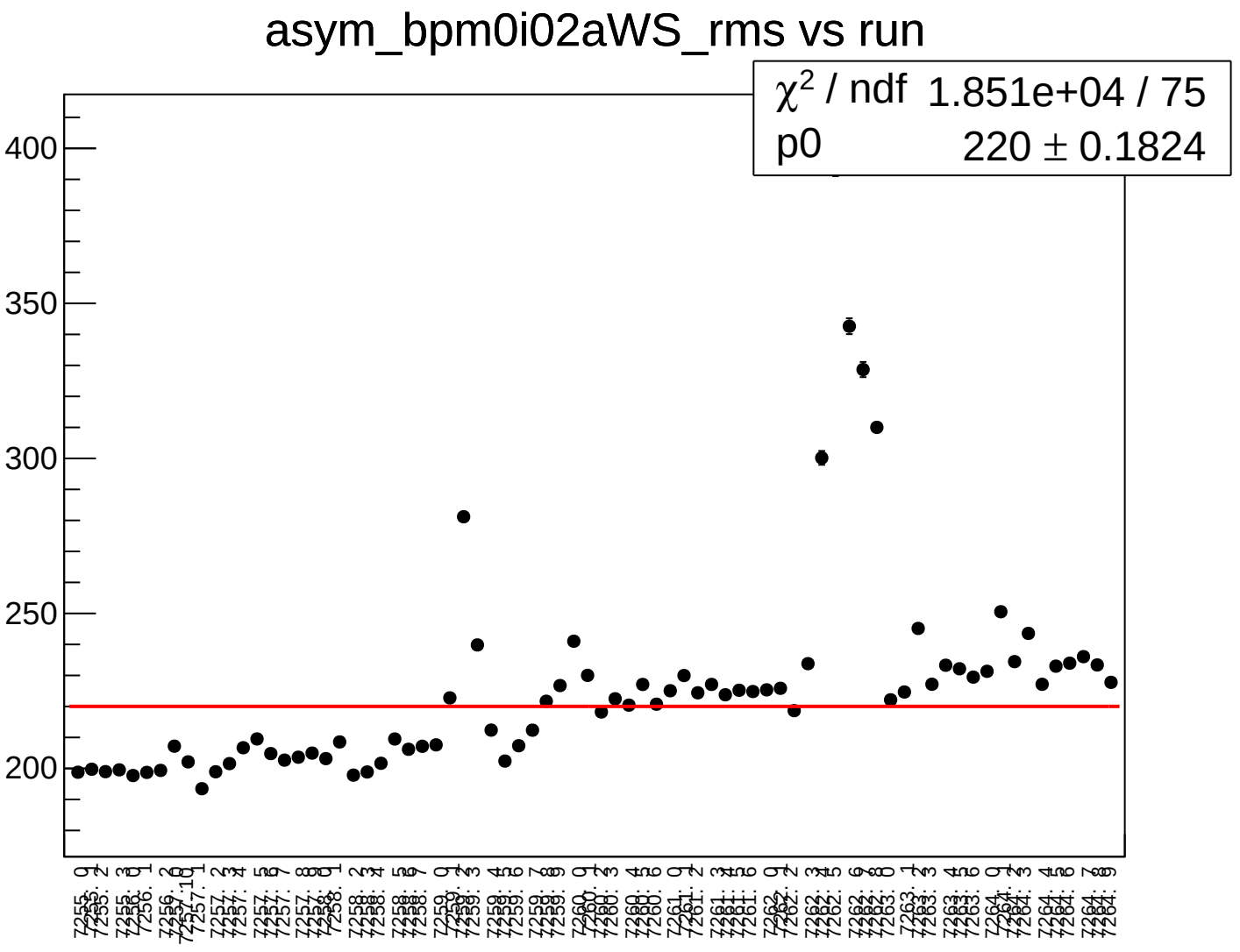

asym_bpm0i02WS_mean vs run
χ² / ndf 173.3 / 75
p0 5257 ± 232.9
15000
10000
5000
0
−5000
pull
Entries 76
Mean −70.74
Std Dev 109.6
3
2
1
0
−1
−2
−3

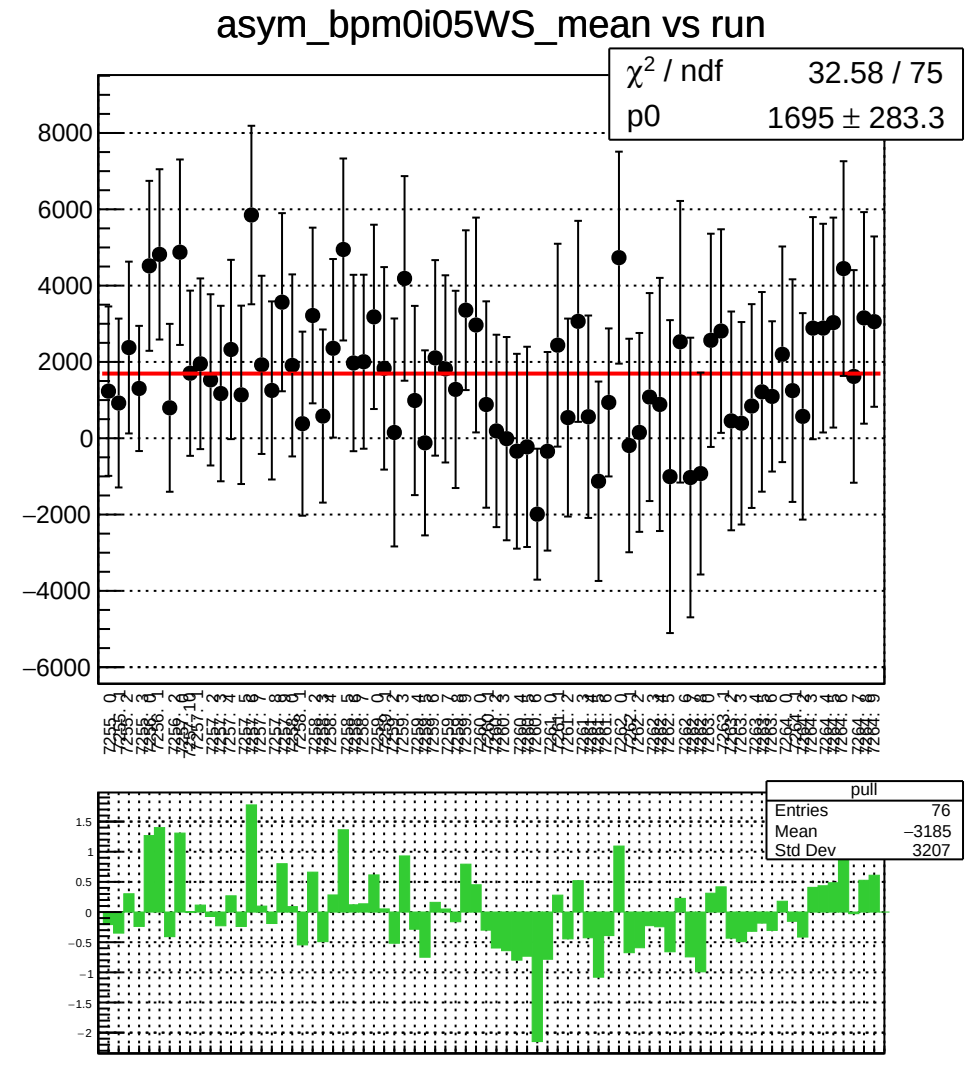

pull1D
Entries 76
Mean 0.04296
Std Dev 1.509
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

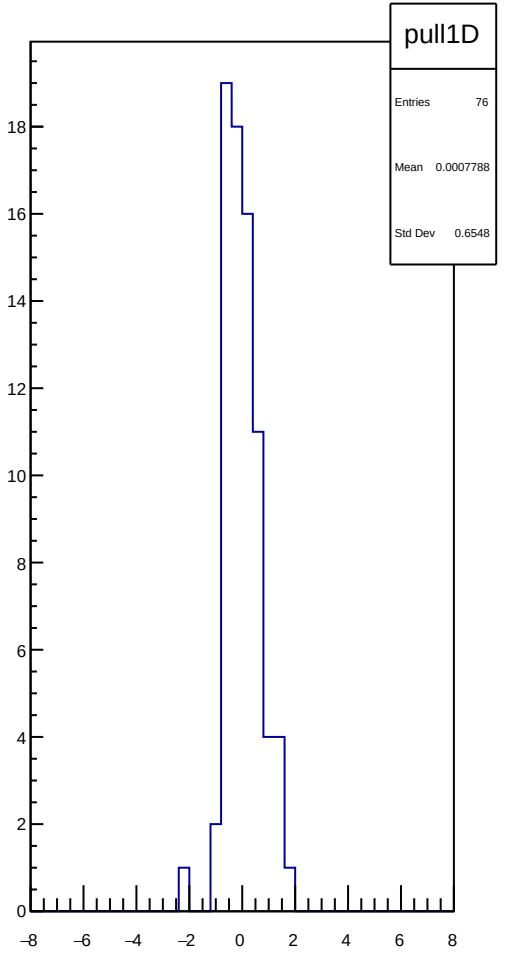

asym_bpm0i02WS_rms vs run
χ² / ndf 1.962e+04 / 75
p0 198.6 ± 0.1647
400
350
300
250
200

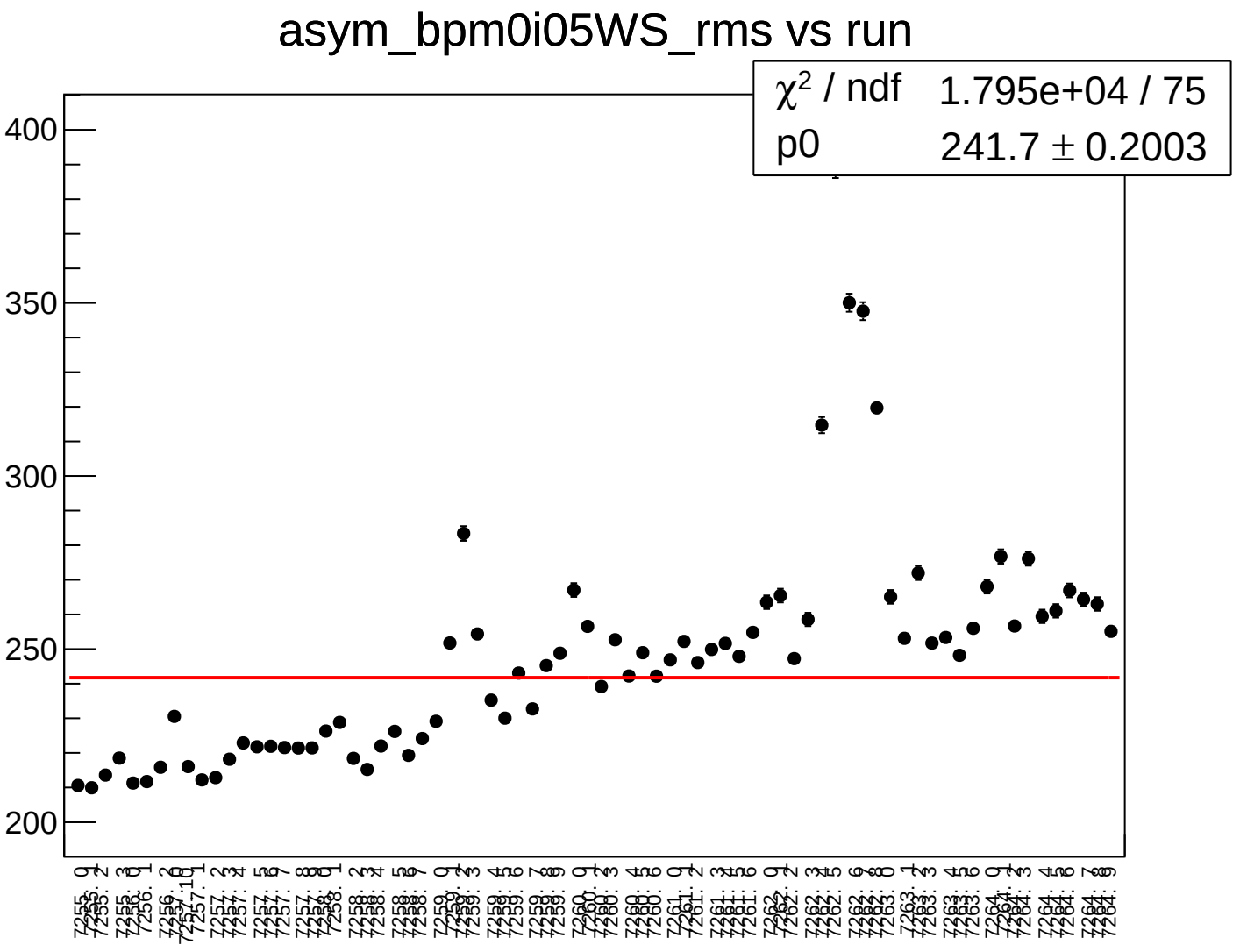

asym_bpm0i02aWS_mean vs run
χ² / ndf 101.1 / 75
p0 1.099e+04 ± 257.9
pull
Entries 76
Mean −166.5
Std Dev 170.1

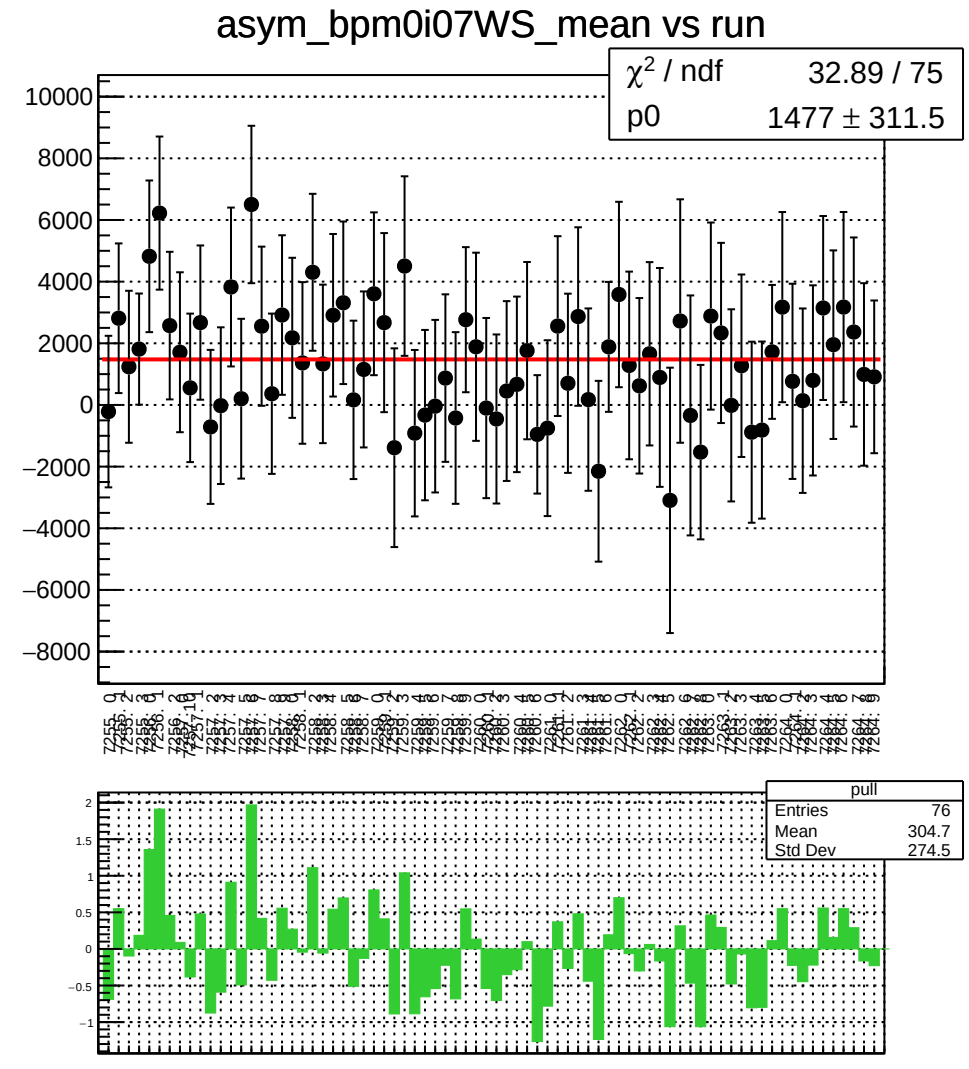

pull1D
Entries 76
Mean 0.008741
Std Dev 1.153

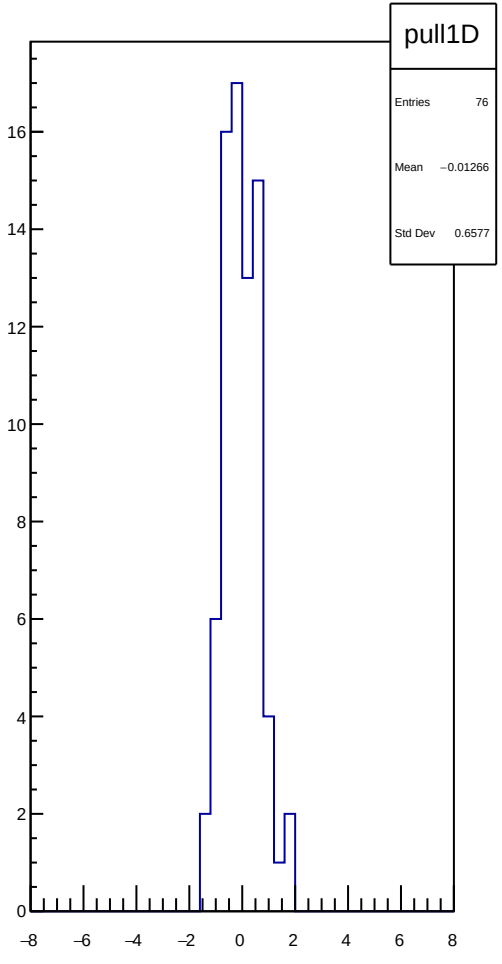

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.851e+04 / 75
p0 220 ± 0.1824
400
350
300
250
200

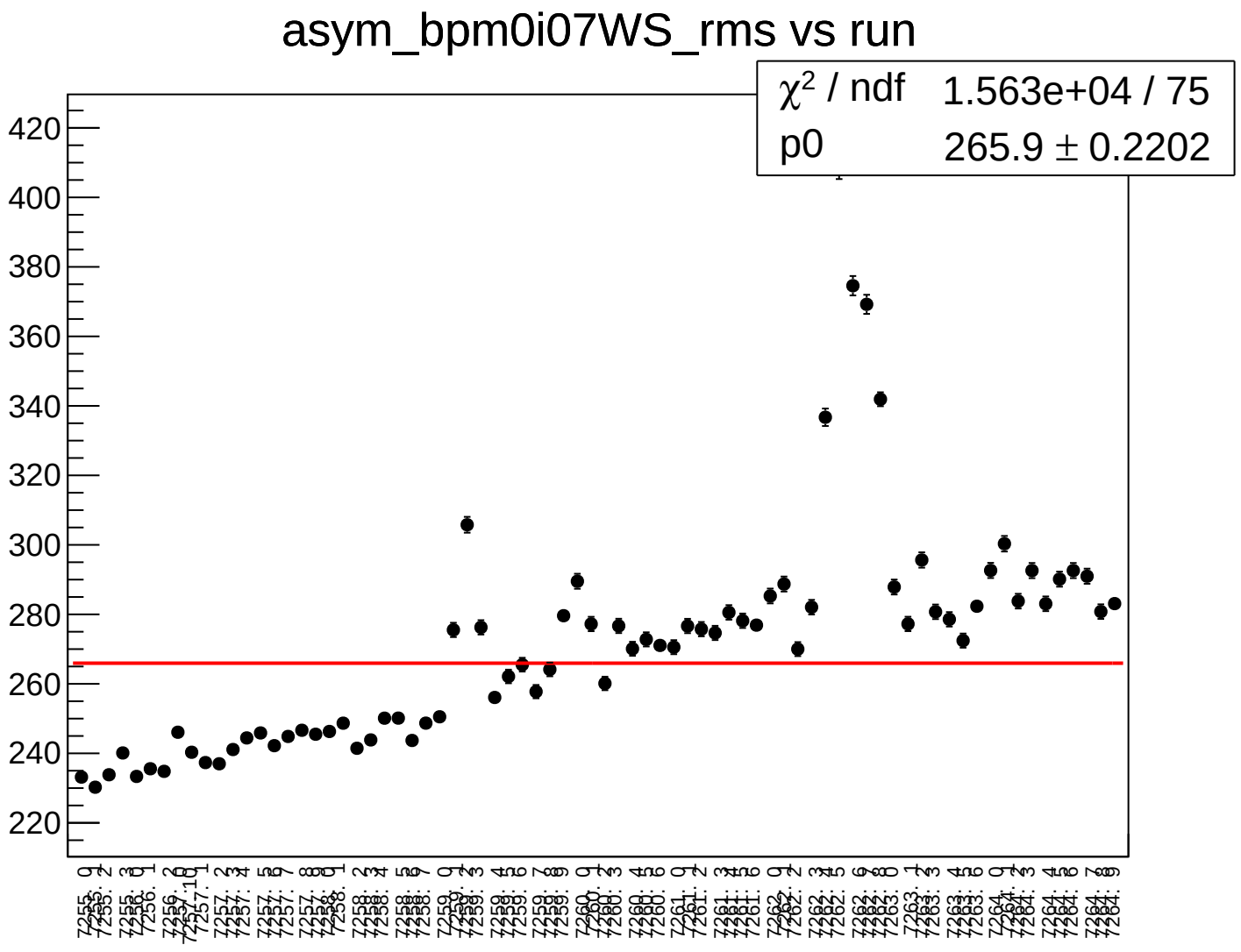

asym_bpm0i05WS_mean vs run
χ² / ndf 32.58 / 75
p0 1695 ± 283.3
pull
Entries 76
Mean −3185
Std Dev 3207

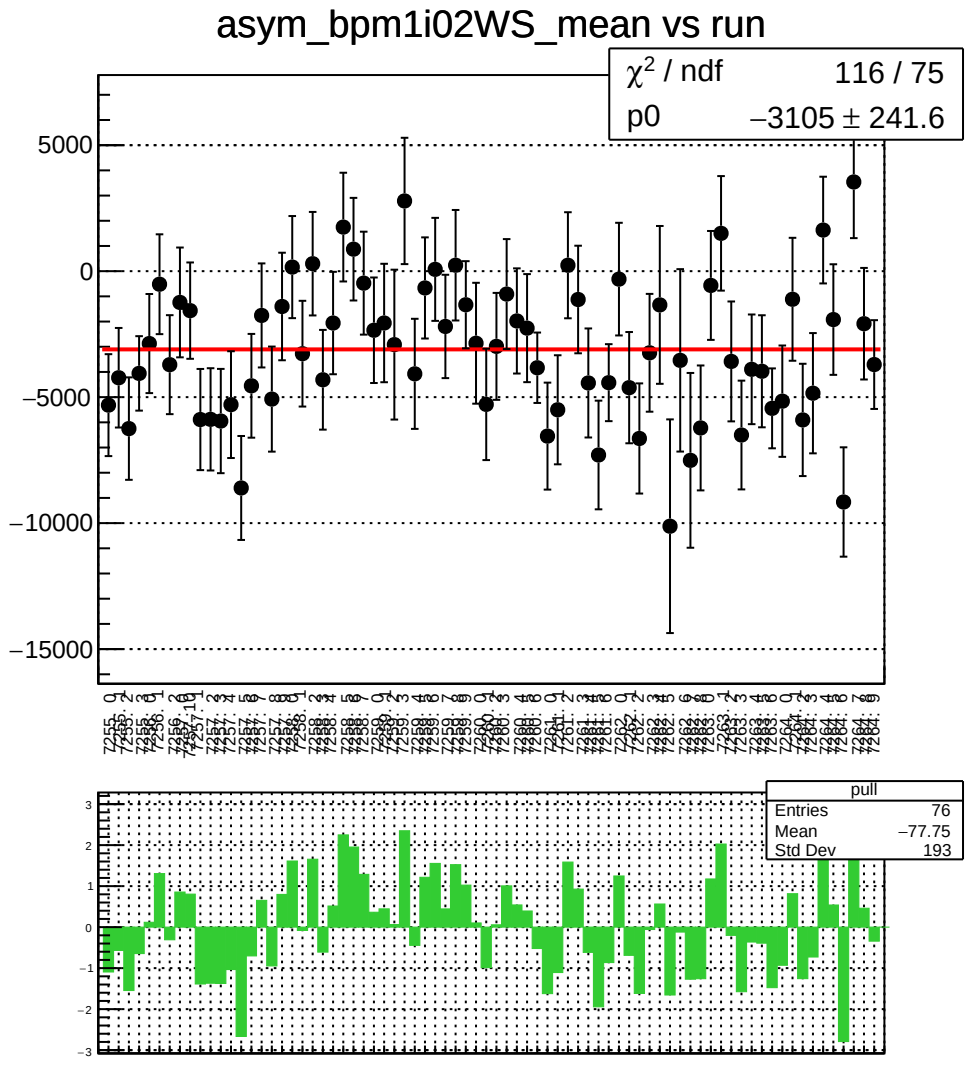

pull1D
Entries 76
Mean 0.0007788
Std Dev 0.6548

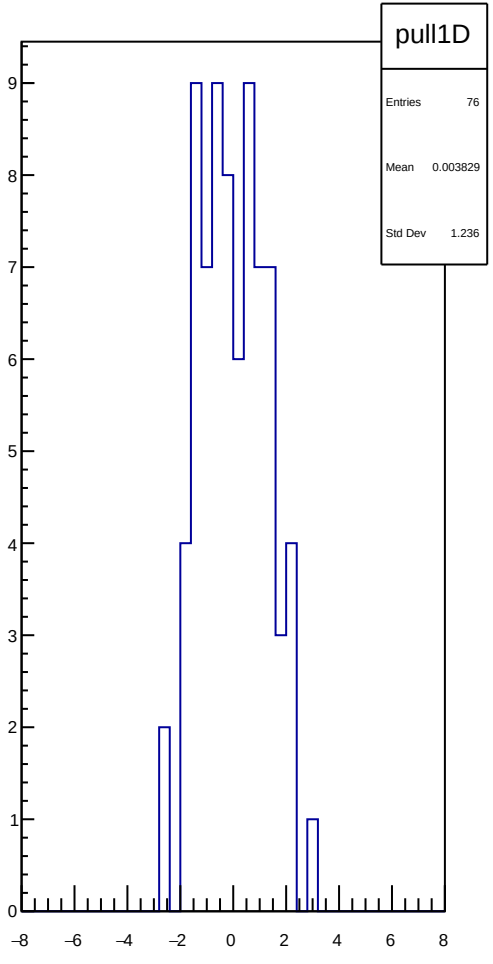

asym_bpm0i05WS_rms vs run
χ² / ndf 1.795e+04 / 75
p0 241.7 ± 0.2003
400
350
300
250
200

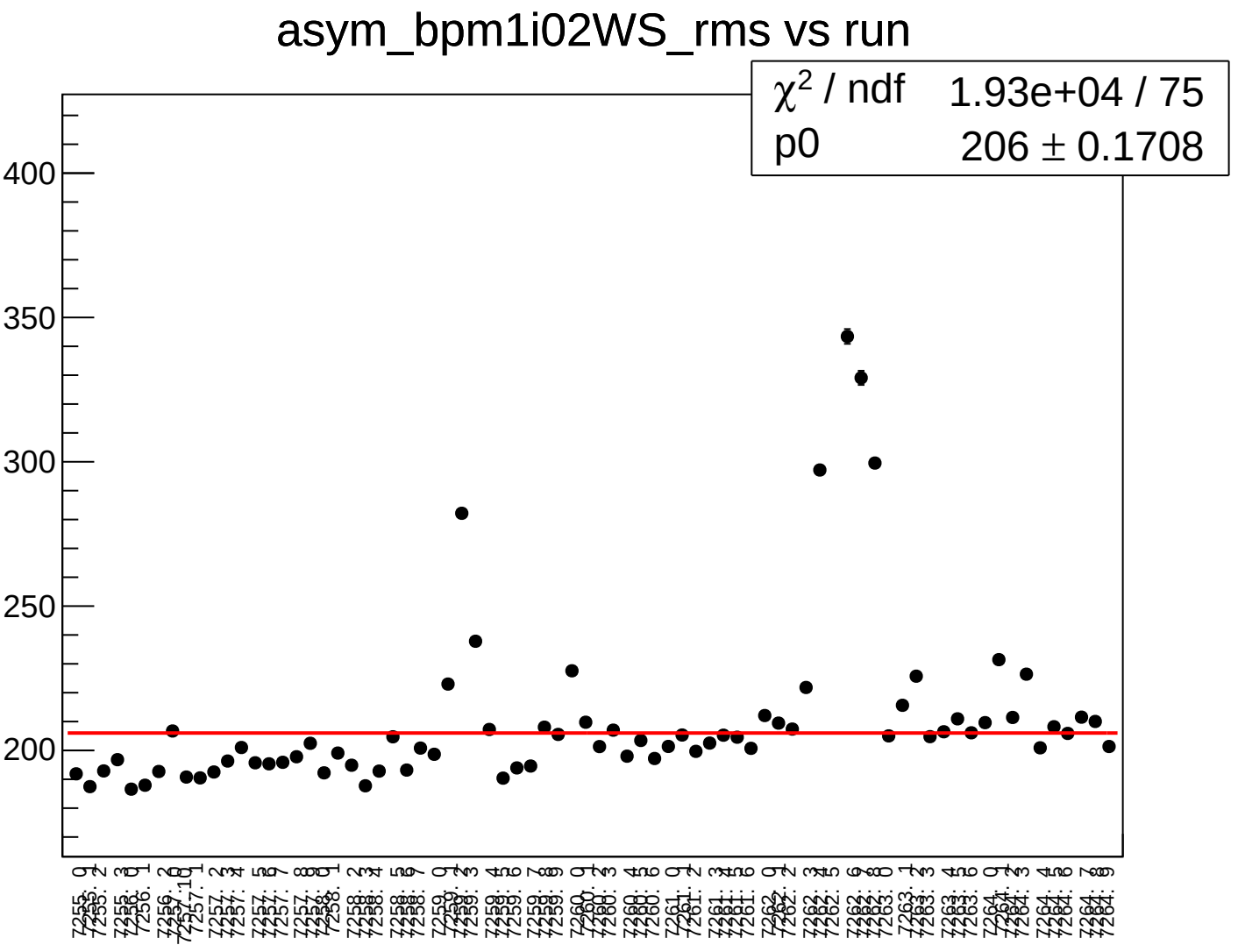

asym_bpm0i07WS_mean vs run
χ² / ndf 32.89 / 75
p0 1477 ± 311.5
pull
Entries 76
Mean 304.7
Std Dev 274.5

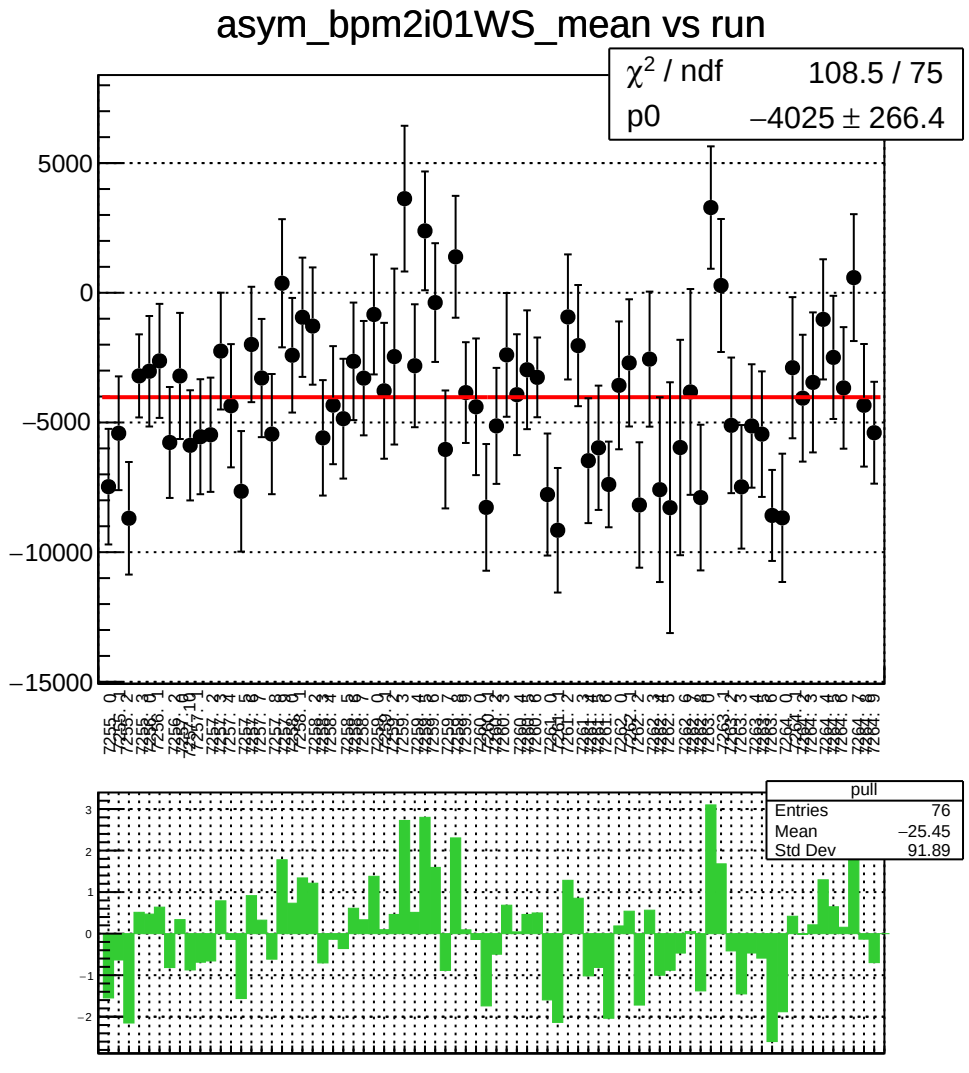

pull1D
Entries 76
Mean −0.01266
Std Dev 0.6577

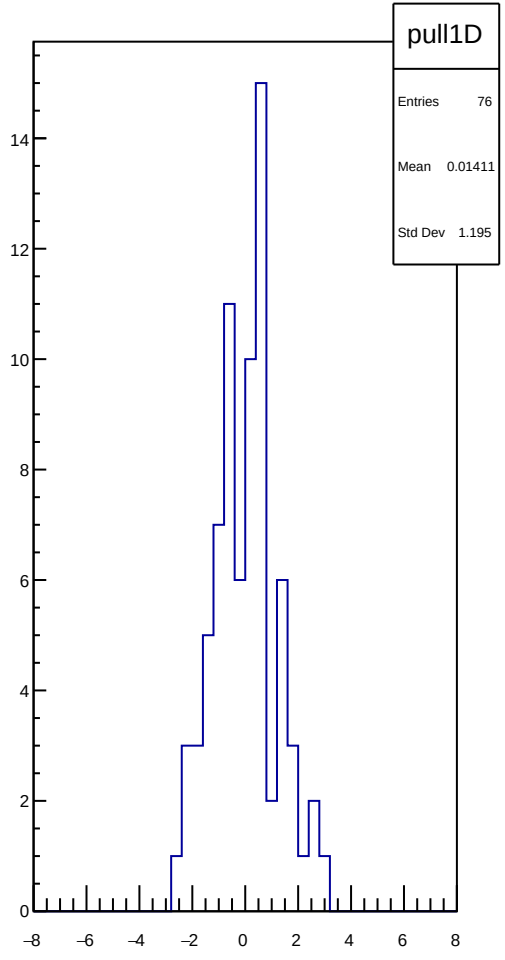

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.563e+04 / 75
p0 265.9 ± 0.2202
420
400
380
360
340
320
300
280
260
240
220

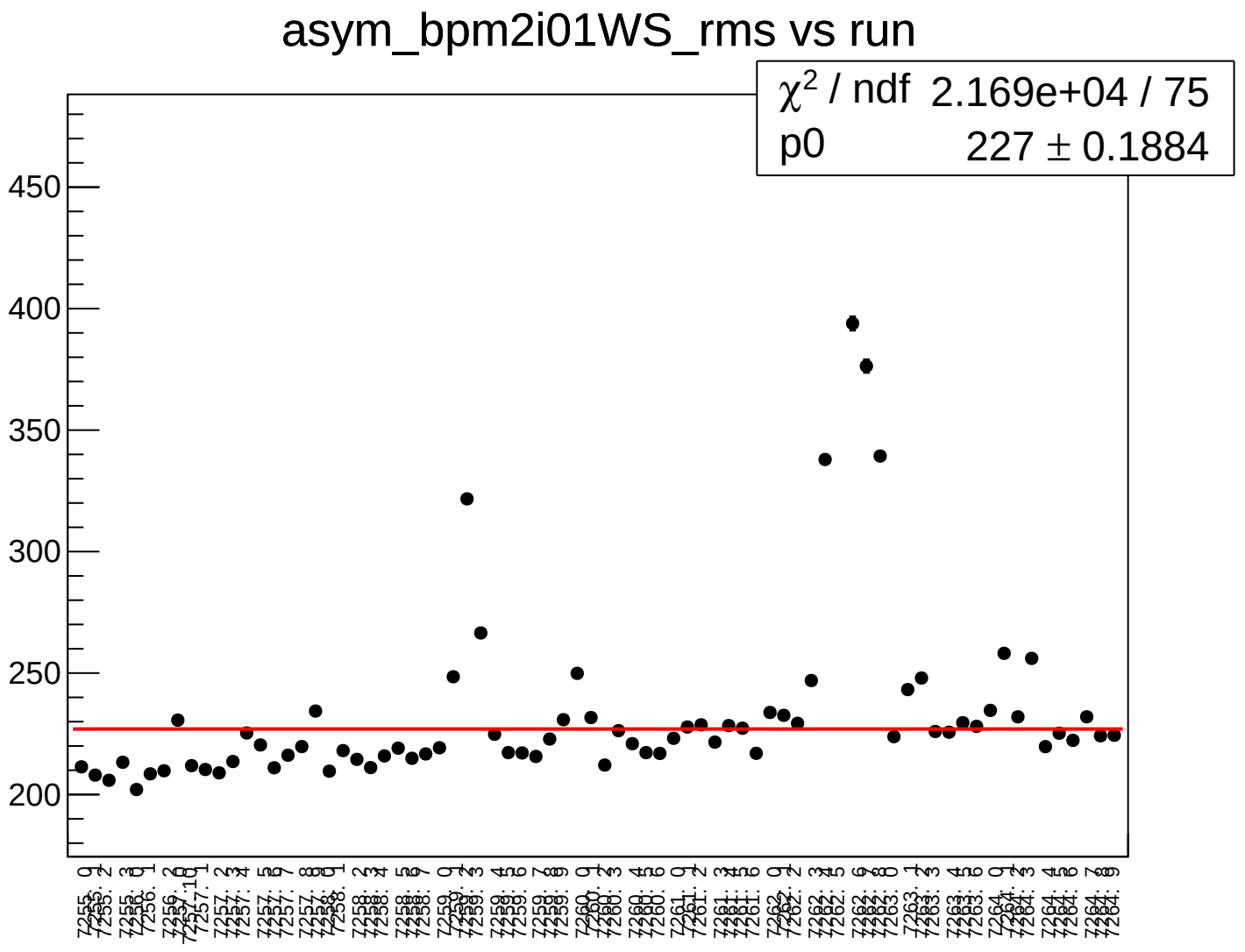

asym_bpm1i02WS_mean vs run
χ² / ndf 116 / 75
p0 −3105 ± 241.6
5000
0
−5000
−10000
−15000
pull
Entries 76
Mean −77.75
Std Dev 193
3
2
1
0
−1
−2
−3

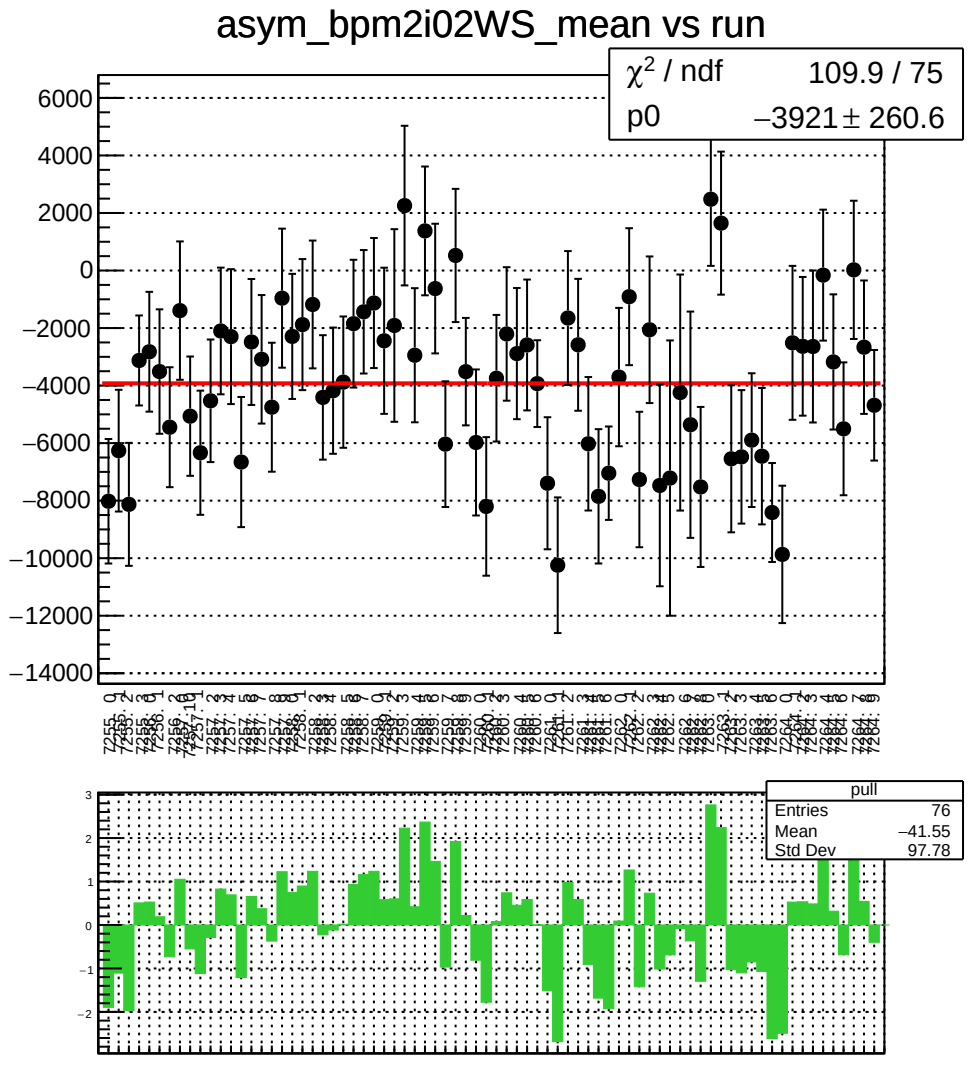

pull1D
Entries 76
Mean 0.003829
Std Dev 1.236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

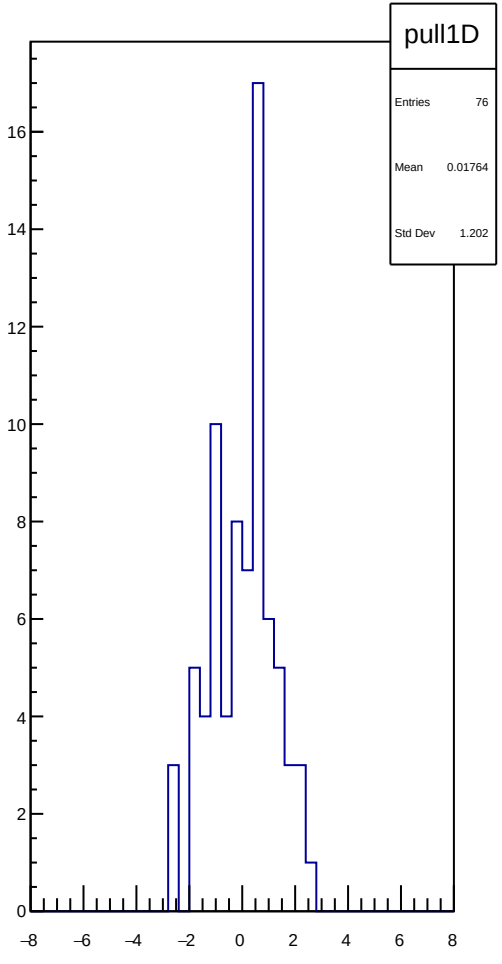

asym_bpm1i02WS_rms vs run
χ² / ndf 1.93e+04 / 75
p0 206 ± 0.1708
400
350
300
250
200

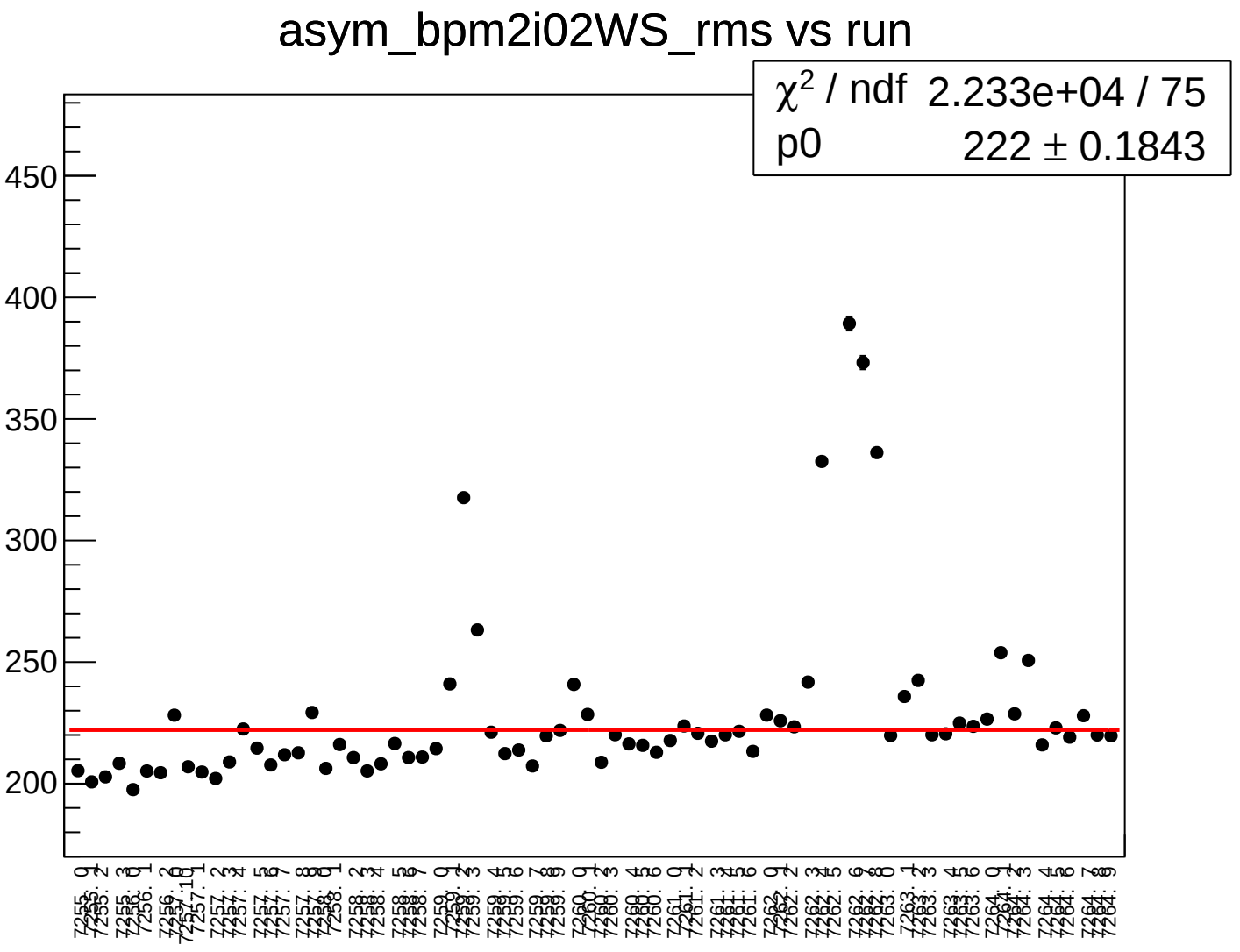

asym_bpm2i01WS_mean vs run
χ² / ndf 108.5 / 75
p0 −4025 ± 266.4
5000
0
−5000
−10000
−15000
pull
Entries 76
Mean −25.45
Std Dev 91.89
3
2
1
0
−1
−2

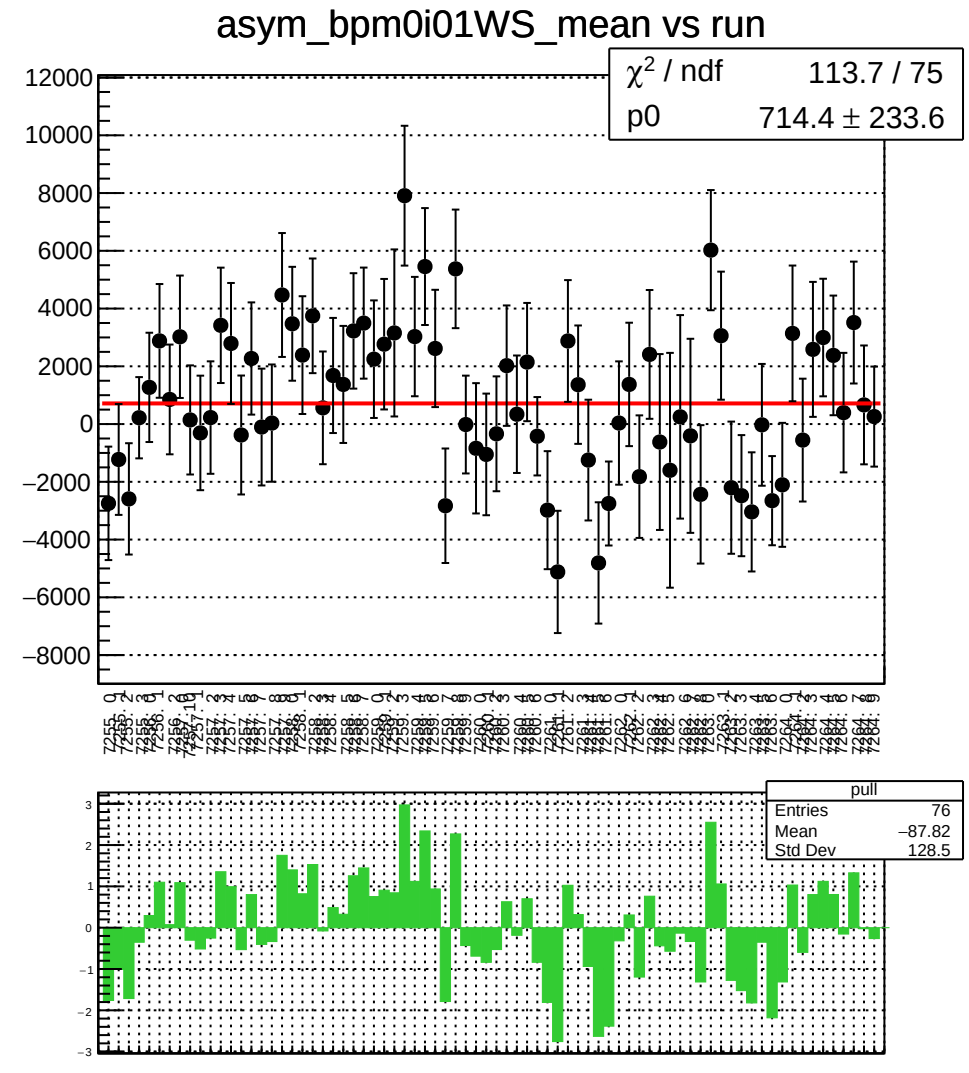

pull1D
Entries 76
Mean 0.01411
Std Dev 1.195
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

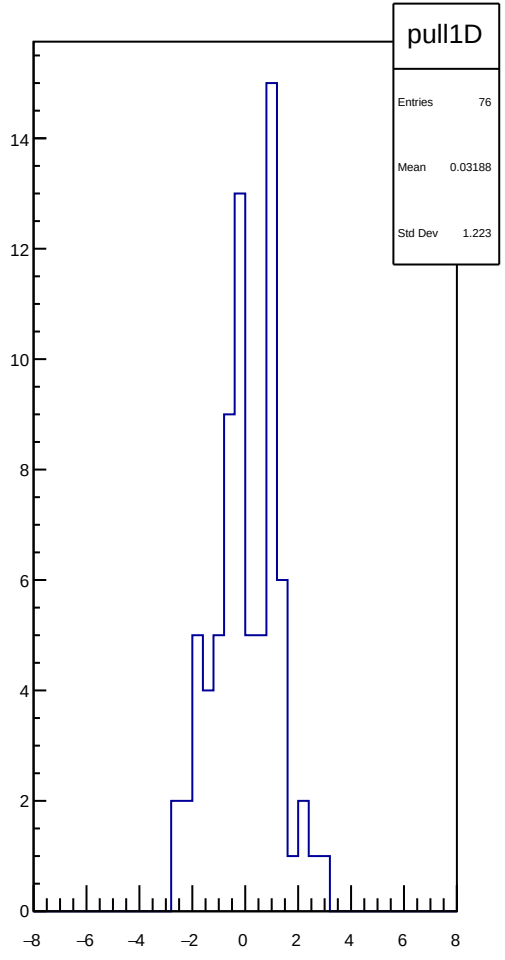

asym_bpm2i01WS_rms vs run
χ² / ndf 2.169e+04 / 75
p0 227 ± 0.1884
450
400
350
300
250
200

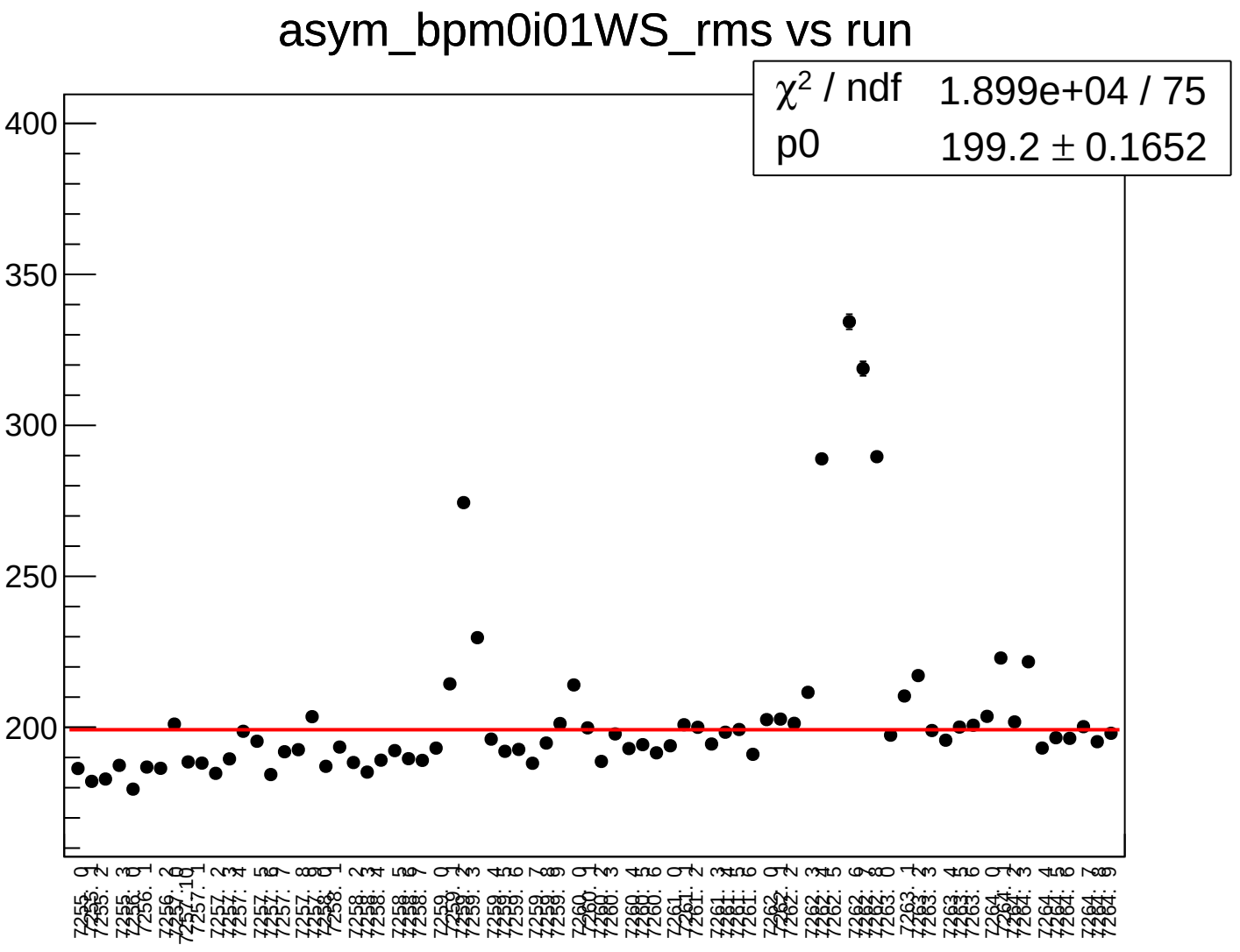

asym_bpm2i02WS_mean vs run
χ² / ndf 109.9 / 75
p0 −3921 ± 260.6
pull
Entries 76
Mean −41.55
Std Dev 97.78

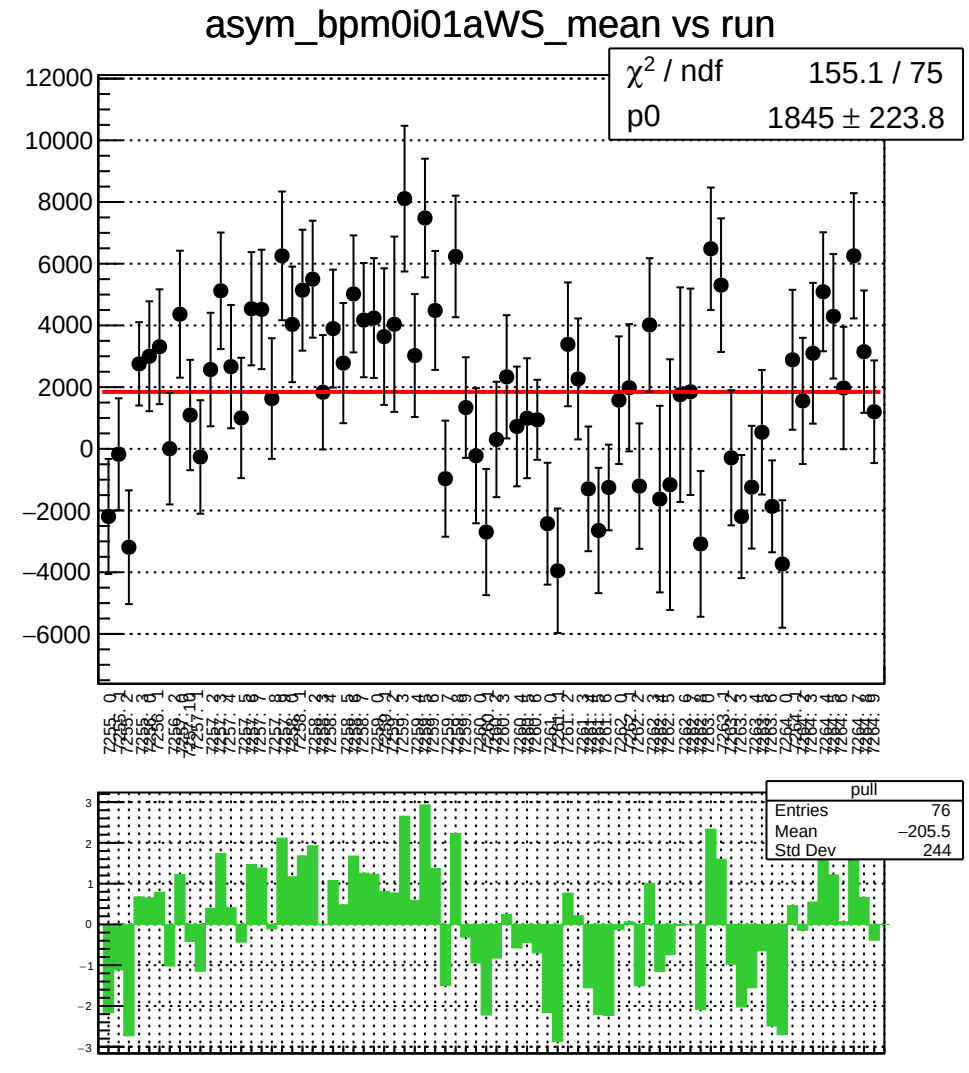

pull1D
Entries 76
Mean 0.01764
Std Dev 1.202

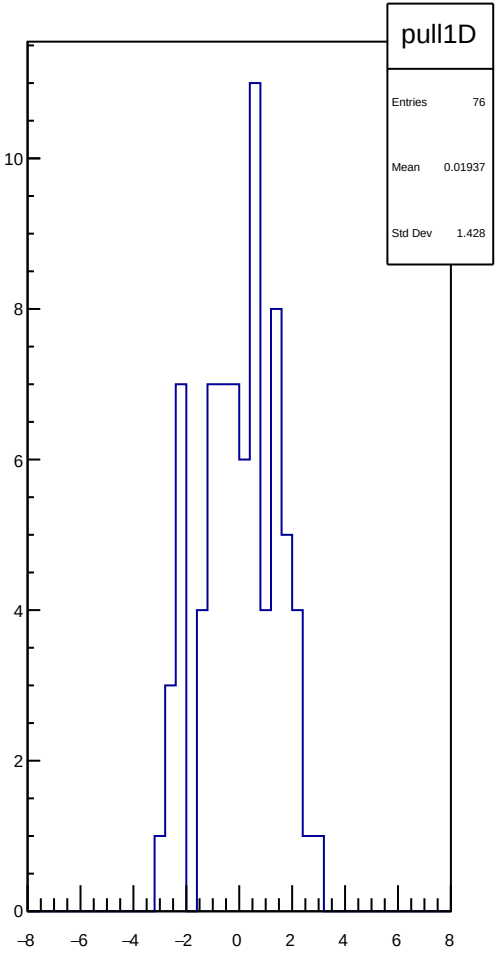

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2.233e+04 / 75
p0 222 ± 0.1843
450
400
350
300
250
200

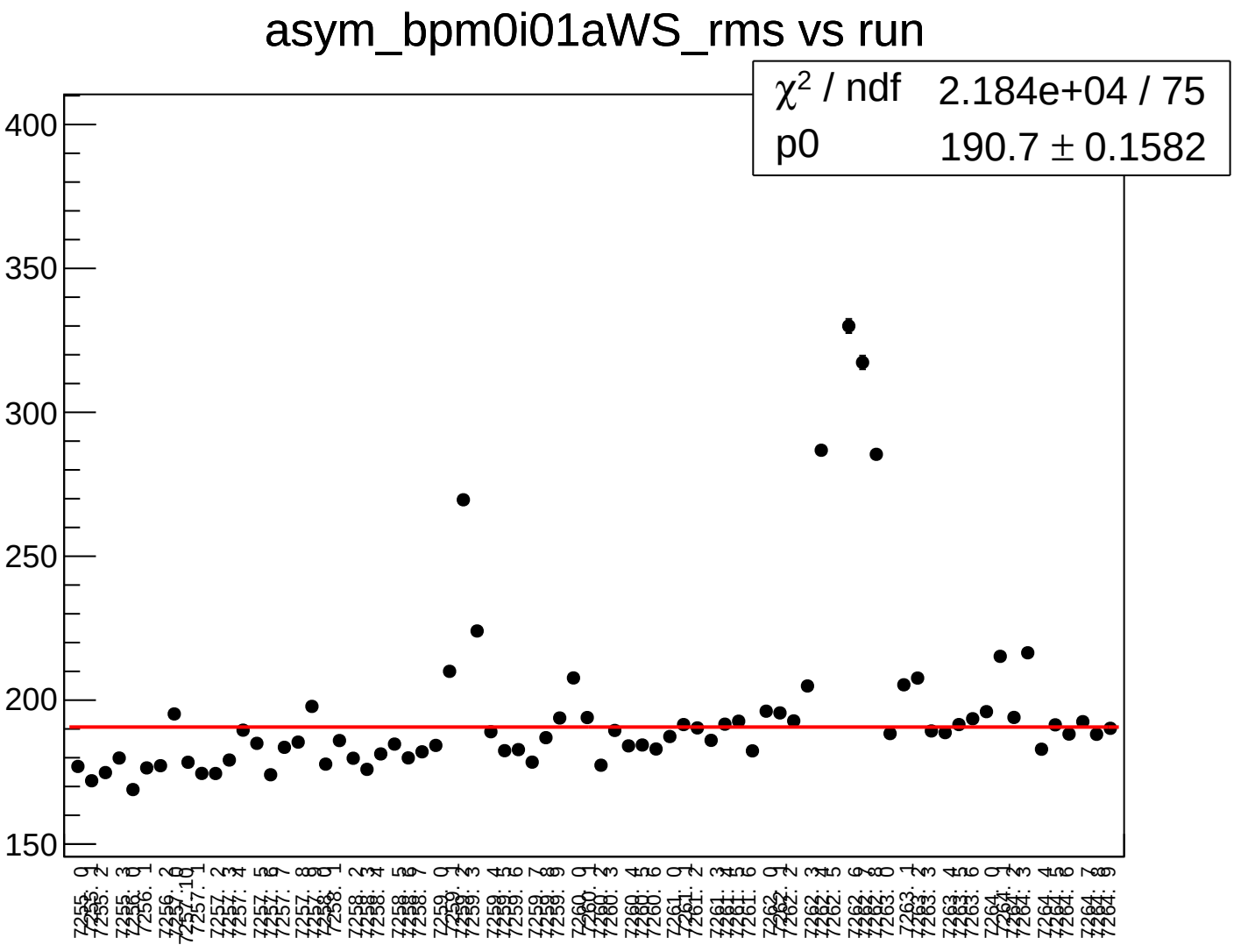

asym_bpm0i01WS_mean vs run
χ² / ndf 113.7 / 75
p0 714.4 ± 233.6
pull
Entries 76
Mean −87.82
Std Dev 128.5

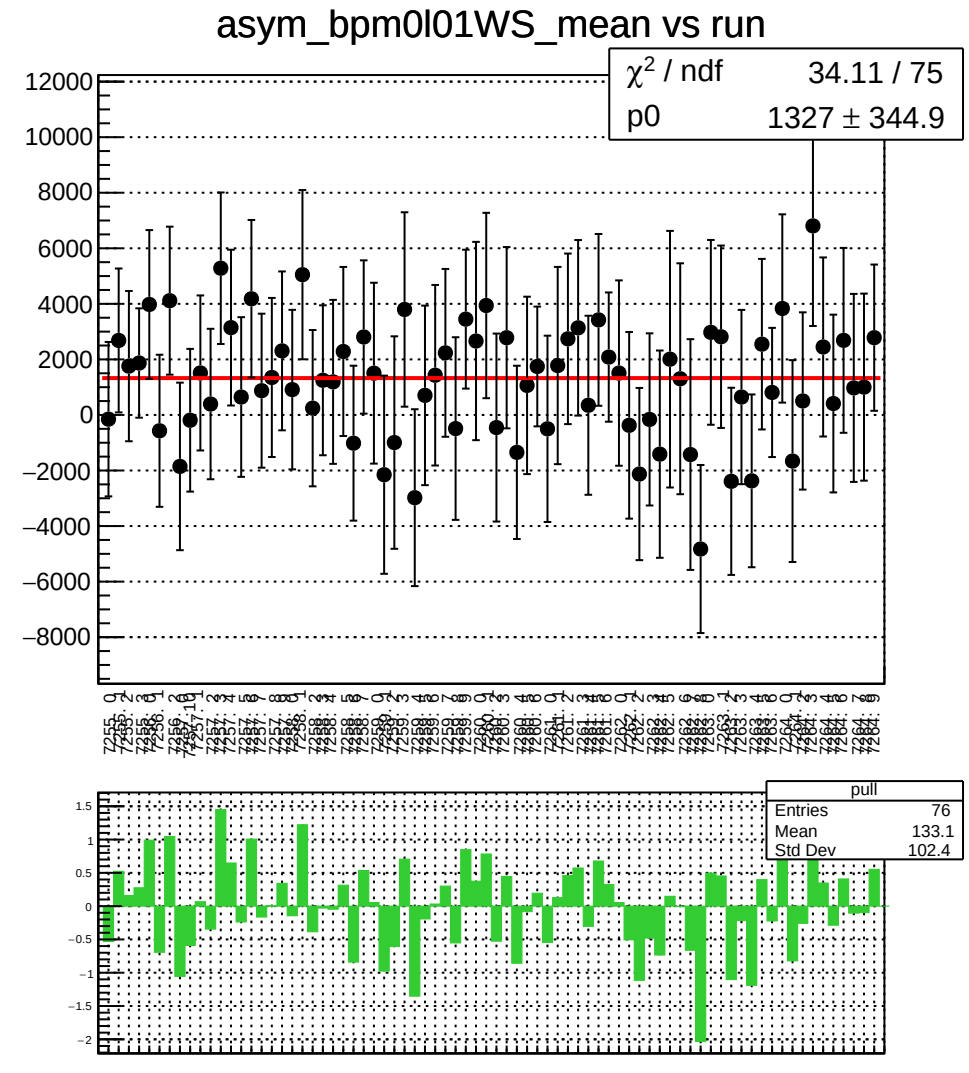

pull1D
Entries 76
Mean 0.03188
Std Dev 1.223

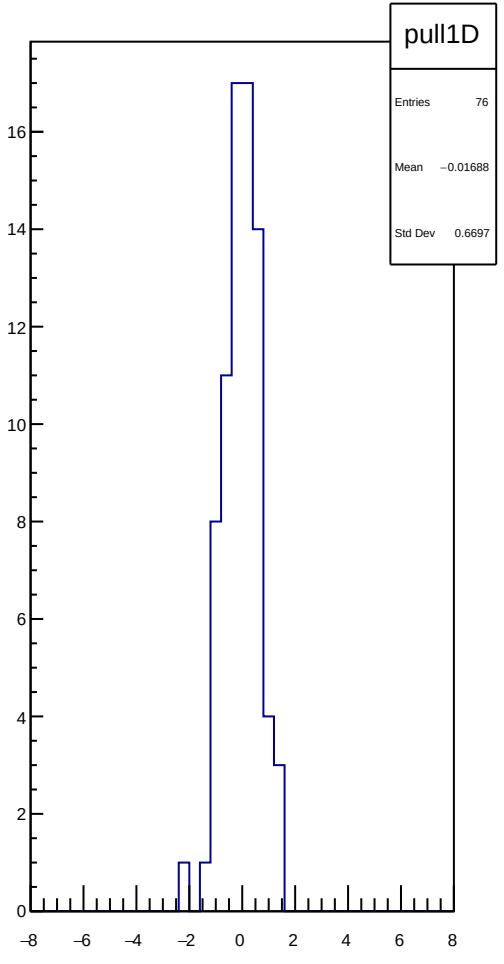

asym_bpm0i01WS_rms vs run
χ² / ndf 1.899e+04 / 75
p0 199.2 ± 0.1652
400
350
300
250
200

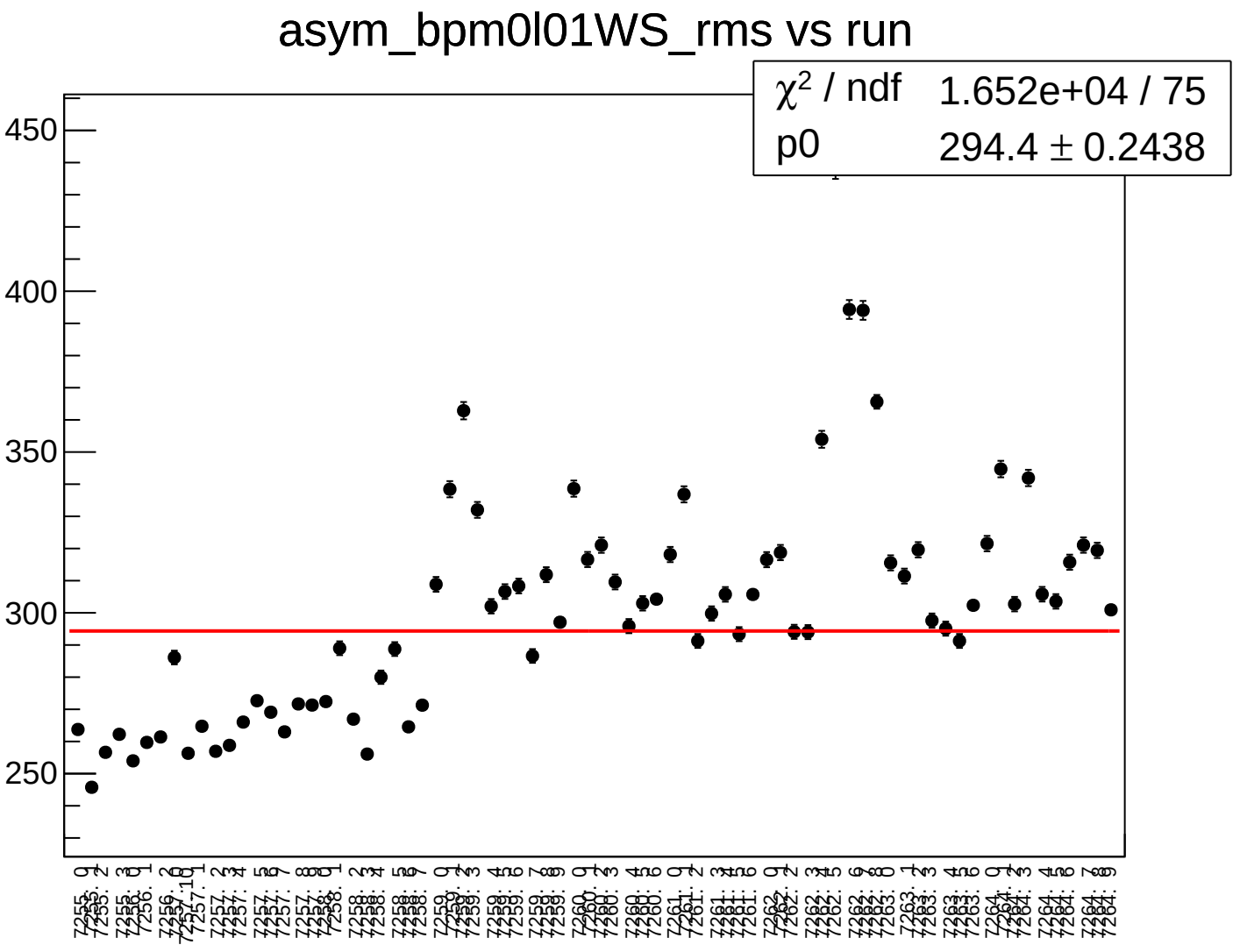

asym_bpm0i01aWS_mean vs run
χ² / ndf 155.1 / 75
p0 1845 ± 223.8
pull
Entries 76
Mean −205.5
Std Dev 244

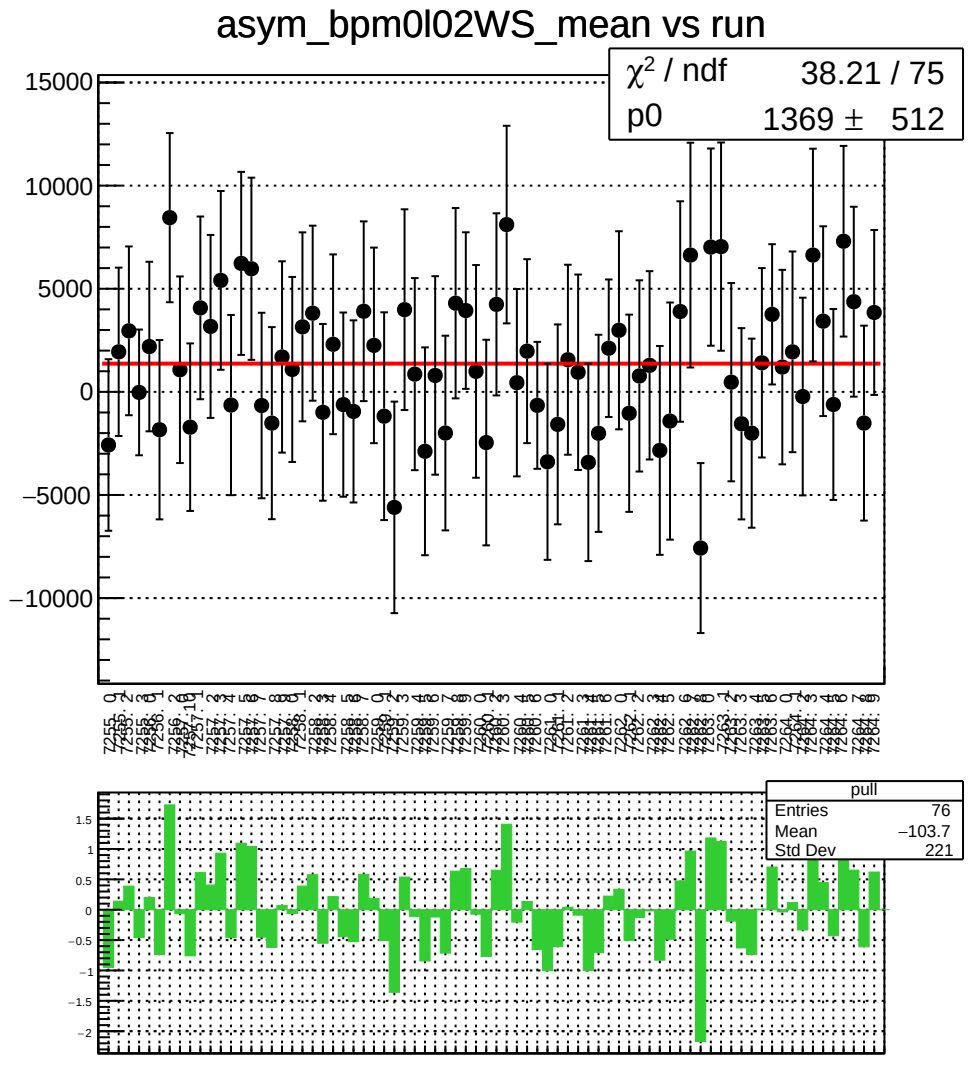

pull1D
Entries 76
Mean 0.01937
Std Dev 1.428

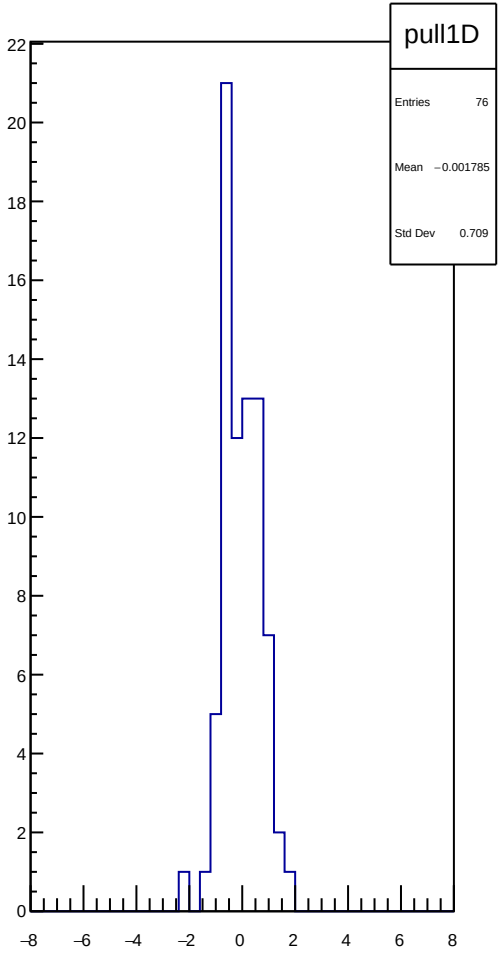

asym_bpm0i01aWS_rms vs run
χ² / ndf 2.184e+04 / 75
p0 190.7 ± 0.1582
400
350
300
250
200
150

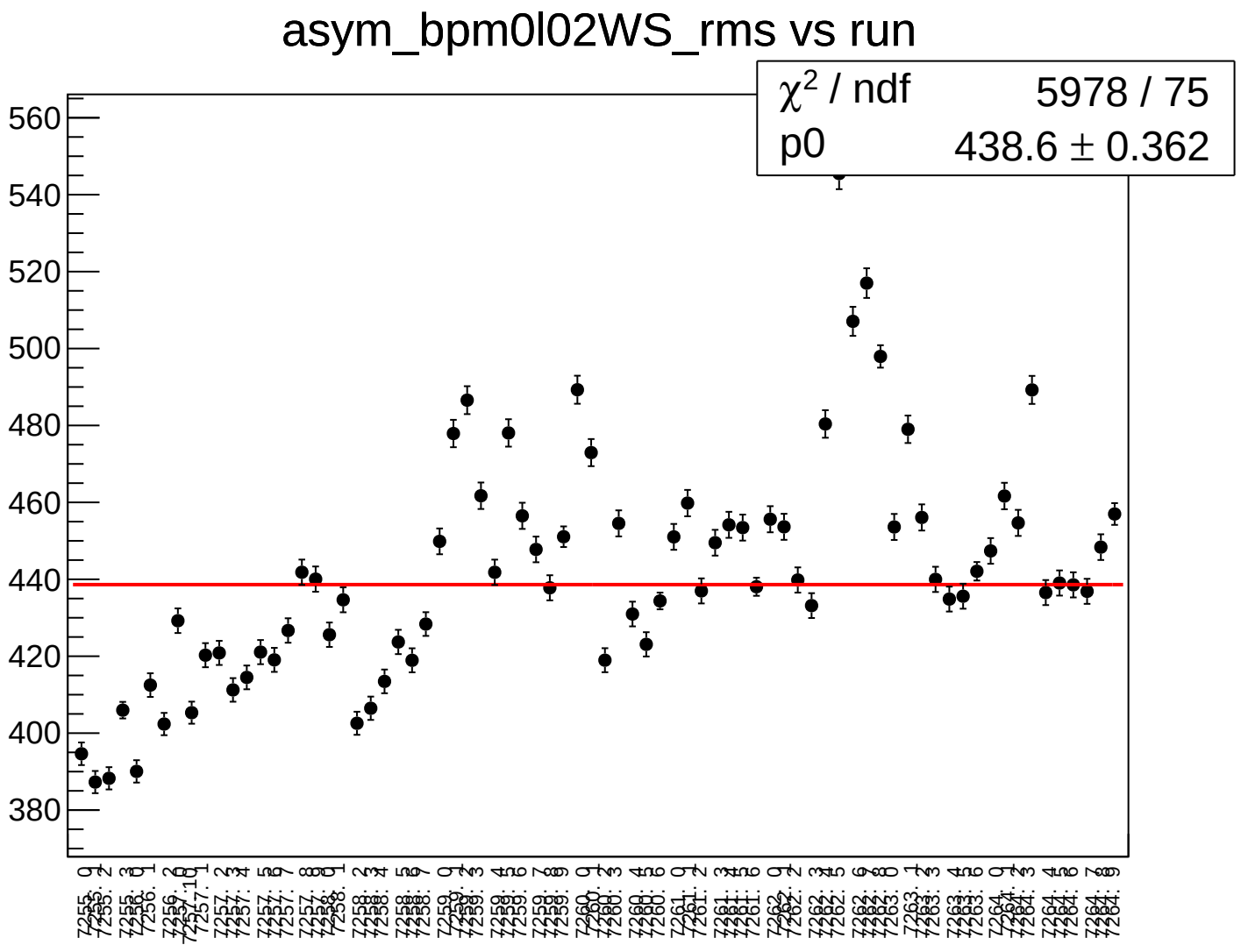

asym_bpm0l01WS_mean vs run
χ² / ndf 34.11 / 75
p0 1327 ± 344.9
pull
Entries 76
Mean 133.1
Std Dev 102.4

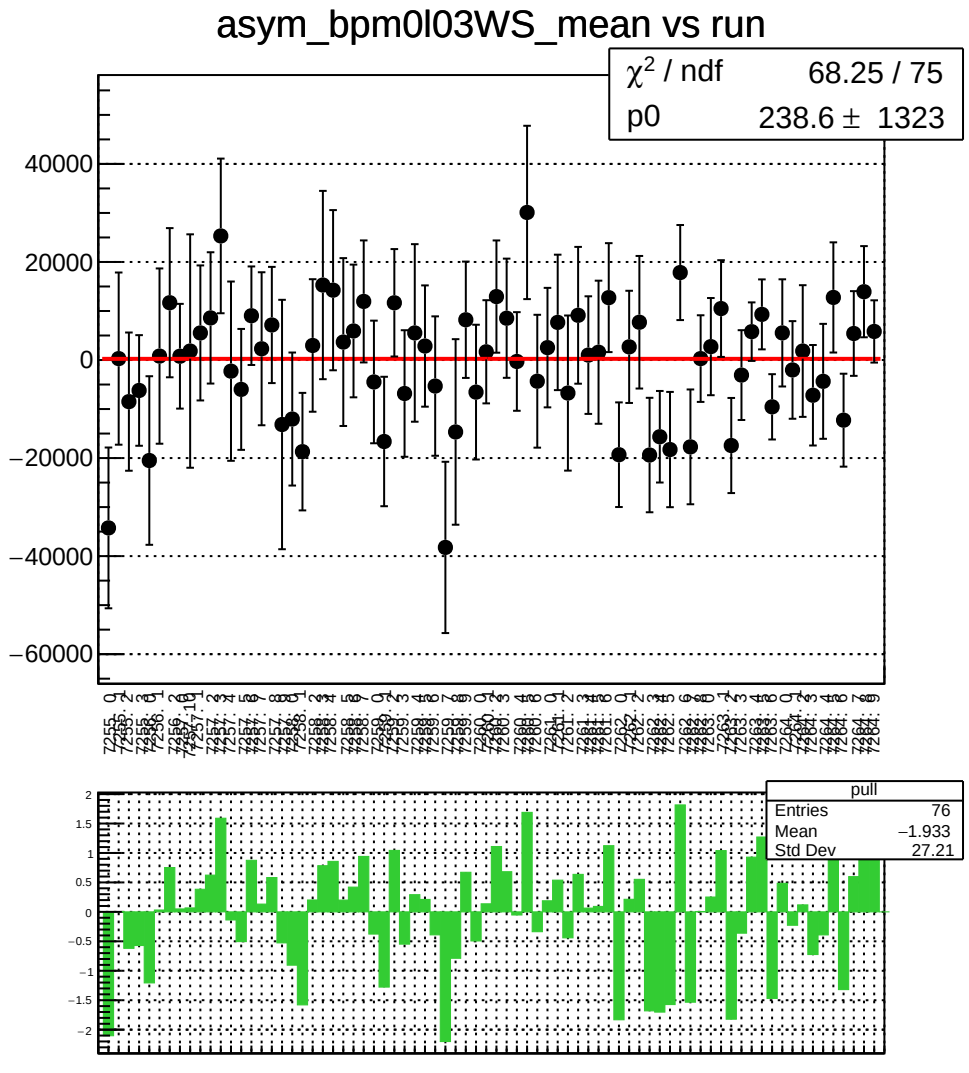

pull1D
Entries 76
Mean −0.01688
Std Dev 0.6697

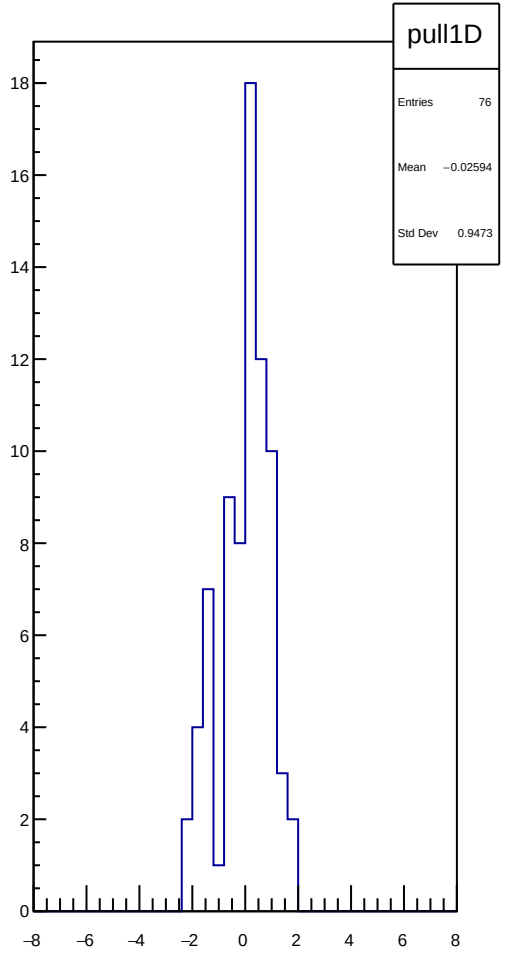

asym_bpm0l01WS_rms vs run
χ² / ndf 1.652e+04 / 75
p0 294.4 ± 0.2438
450
400
350
300
250

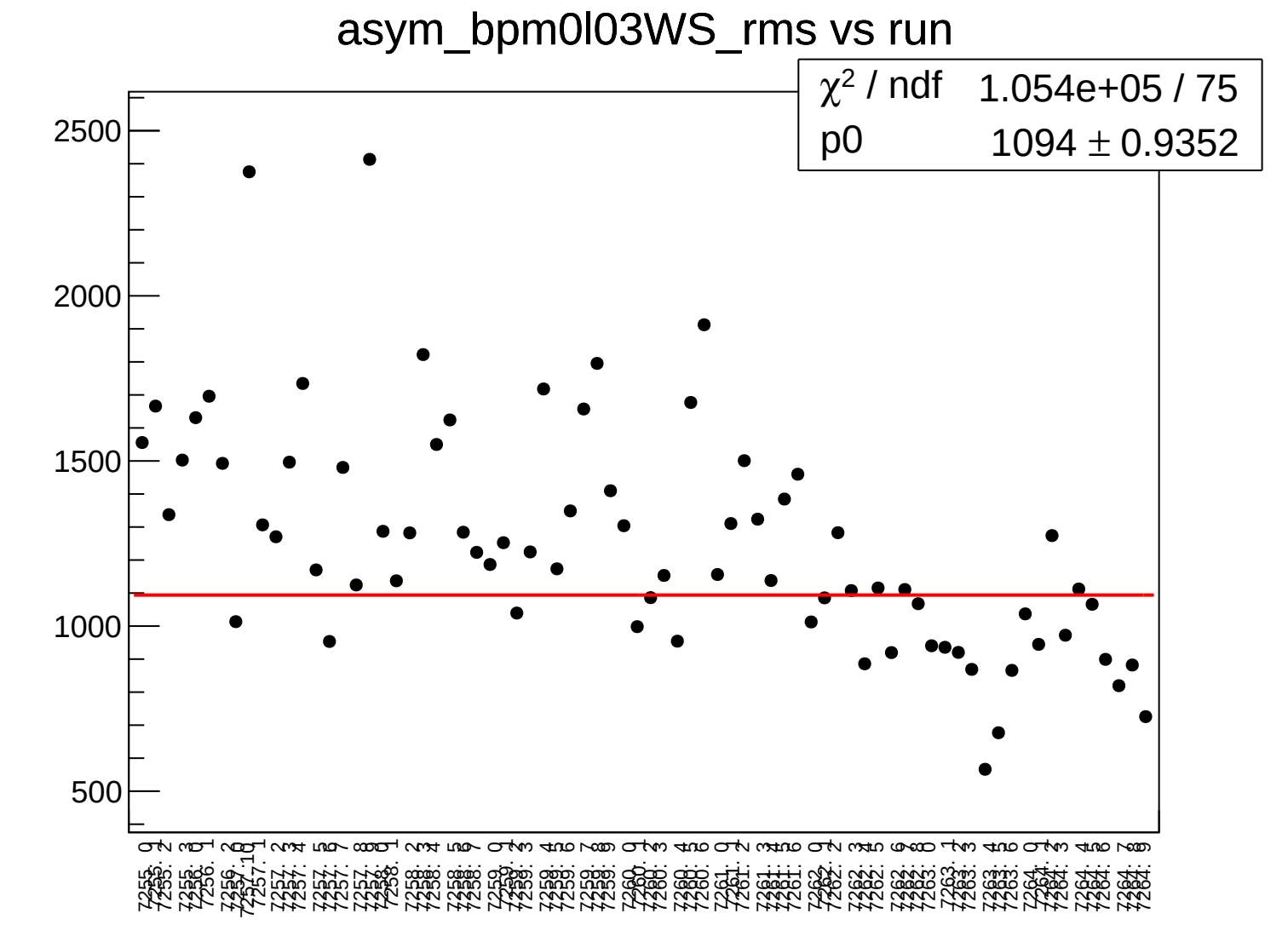

asym_bpm0l02WS_mean vs run
χ² / ndf 38.21 / 75
p0 1369 ± 512
pull
Entries 76
Mean −103.7
Std Dev 221

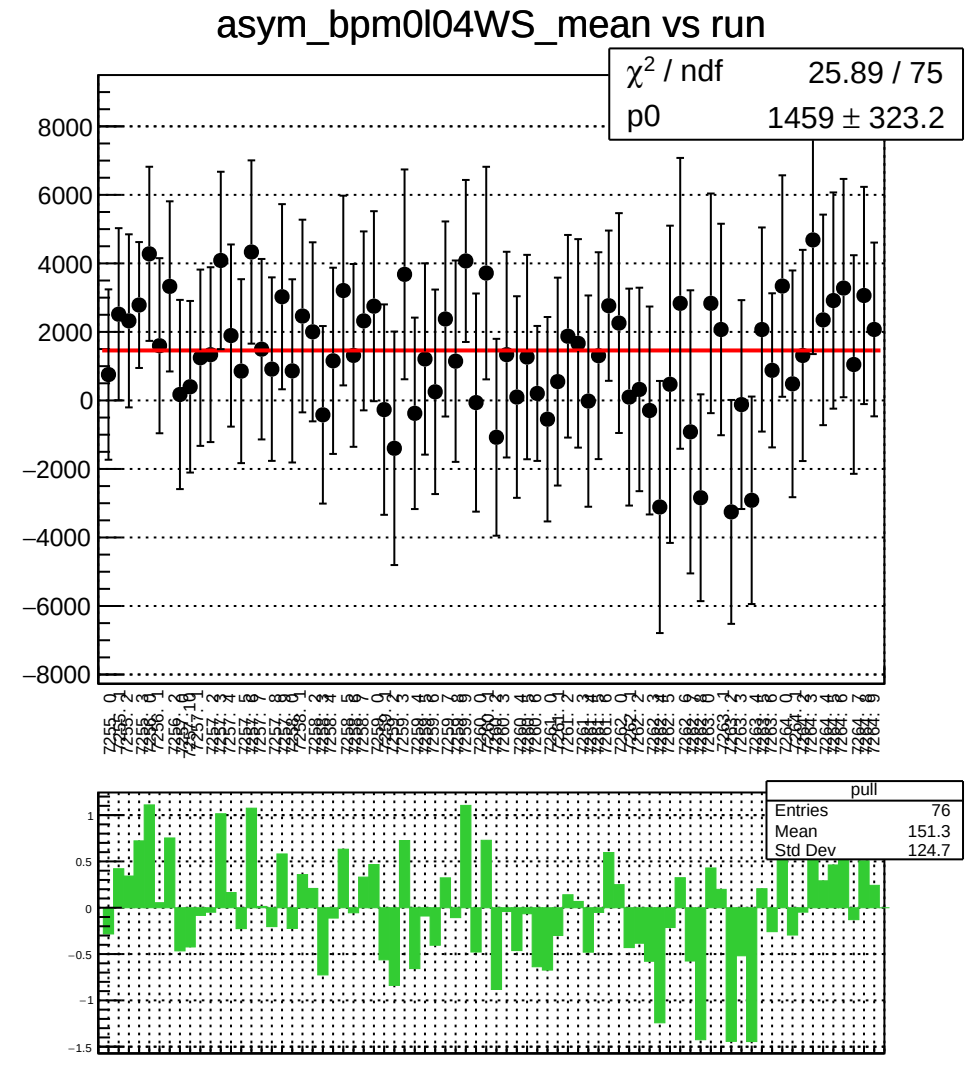

pull1D
Entries 76
Mean −0.001785
Std Dev 0.709

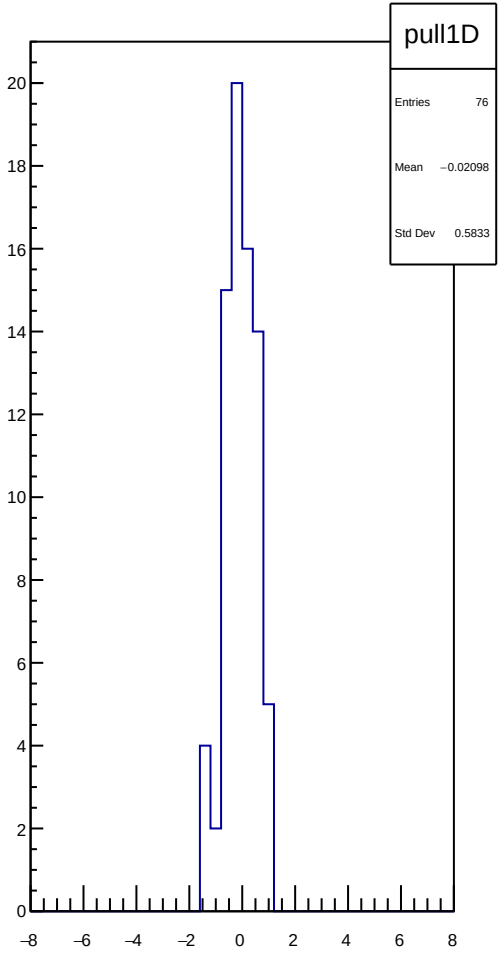

asym_bpm0l02WS_rms vs run
χ² / ndf 5978 / 75
p0 438.6 ± 0.362
560
540
520
500
480
460
440
420
400
380

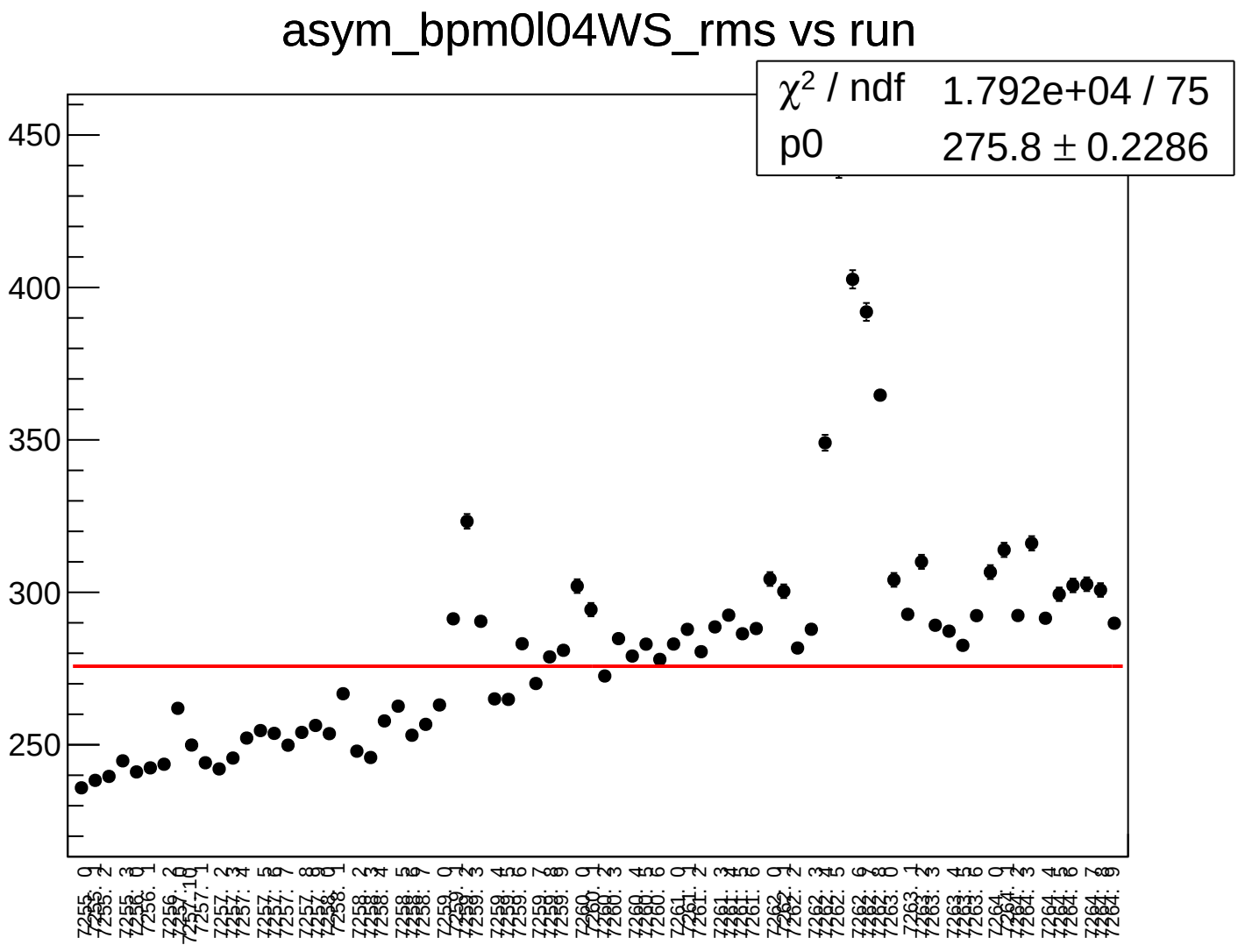

asym_bpm0l03WS_mean vs run
χ² / ndf 68.25 / 75
p0 238.6 ± 1323
40000
20000
0
−20000
−40000
−60000
pull
Entries 76
Mean −1.933
Std Dev 27.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

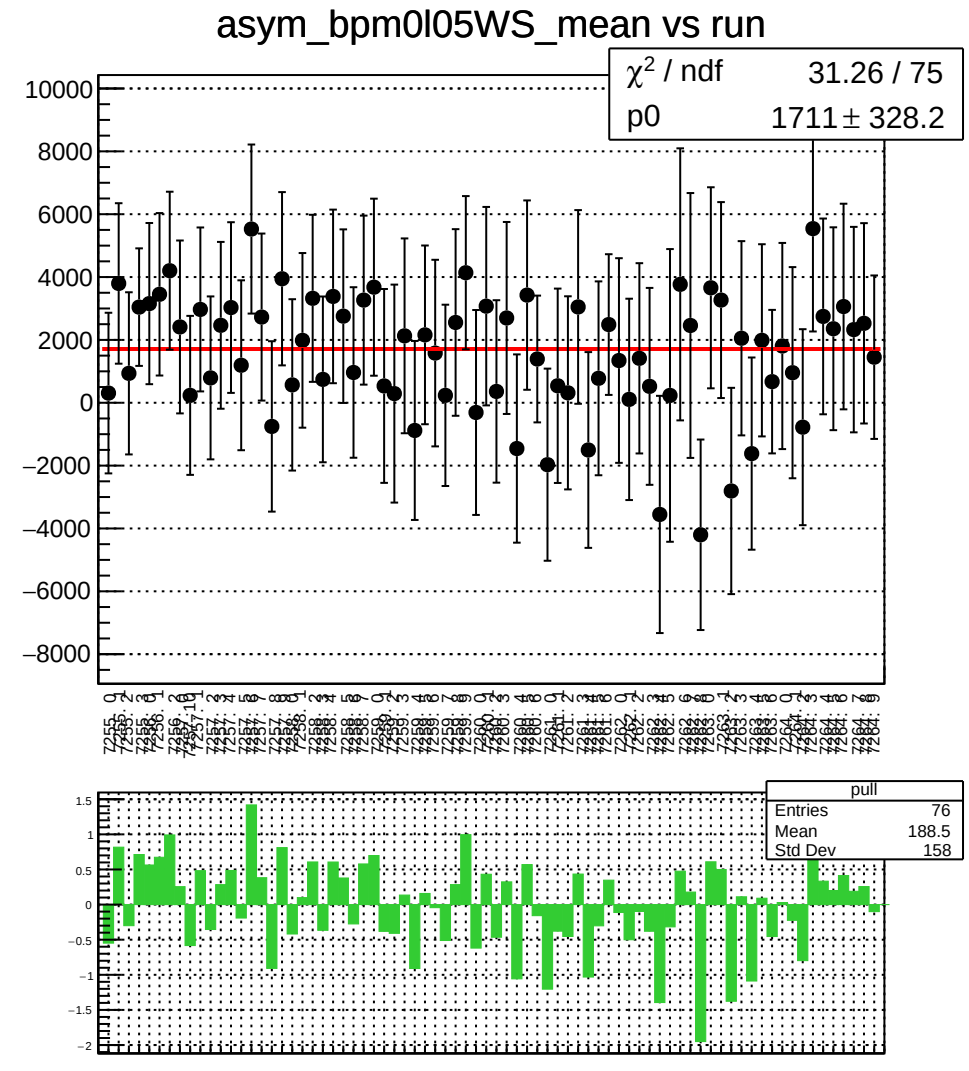

pull1D
Entries 76
Mean −0.02594
Std Dev 0.9473
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

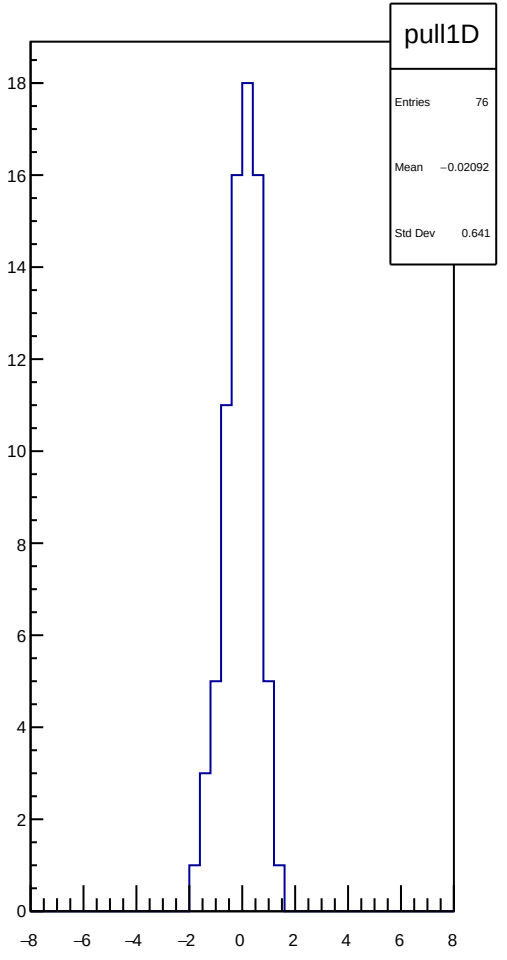

asym_bpm0l03WS_rms vs run
χ² / ndf 1.054e+05 / 75
p0 1094 ± 0.9352
2500
2000
1500
1000
500

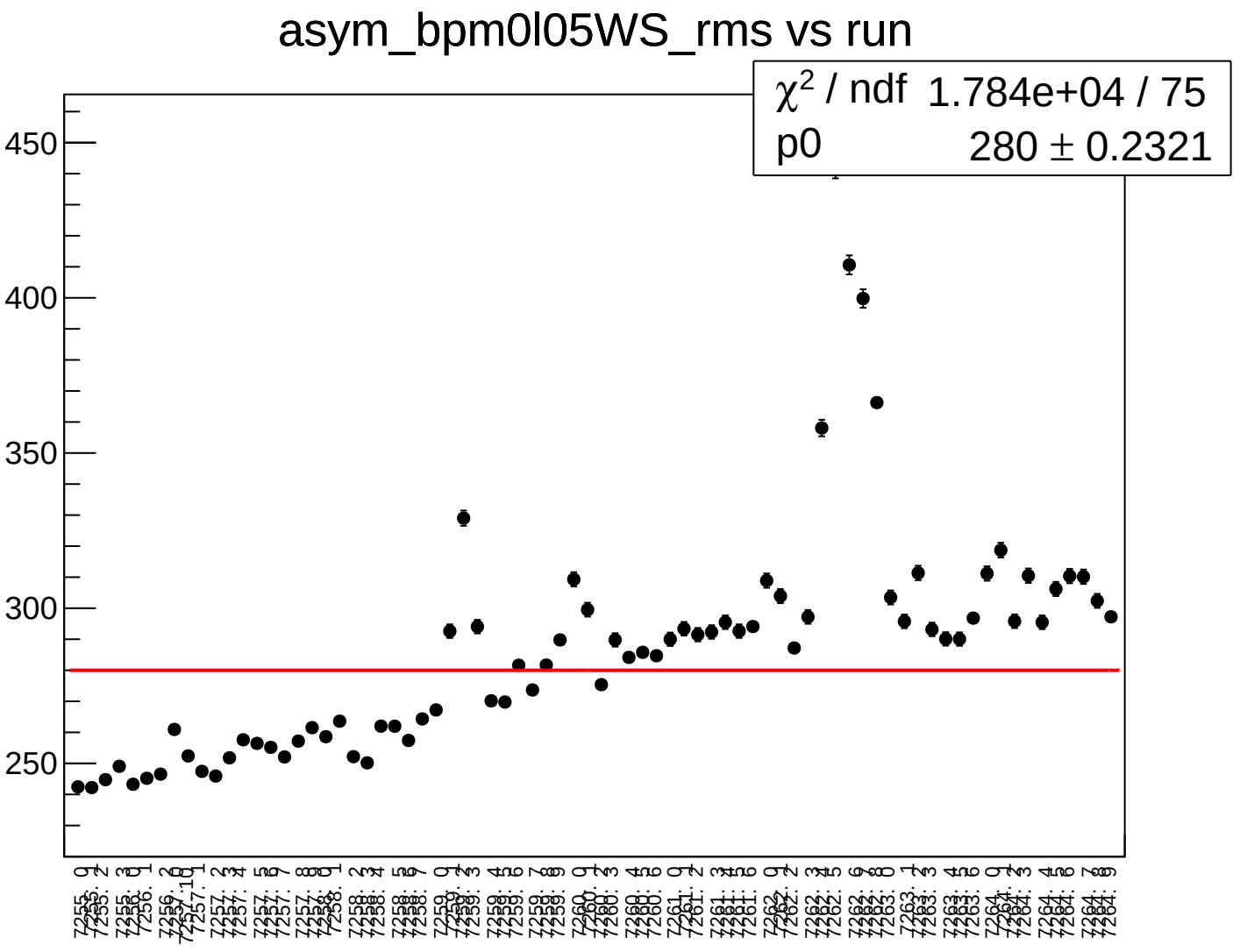

asym_bpm0l04WS_mean vs run
χ² / ndf 25.89 / 75
p0 1459 ± 323.2
pull
Entries 76
Mean 151.3
Std Dev 124.7

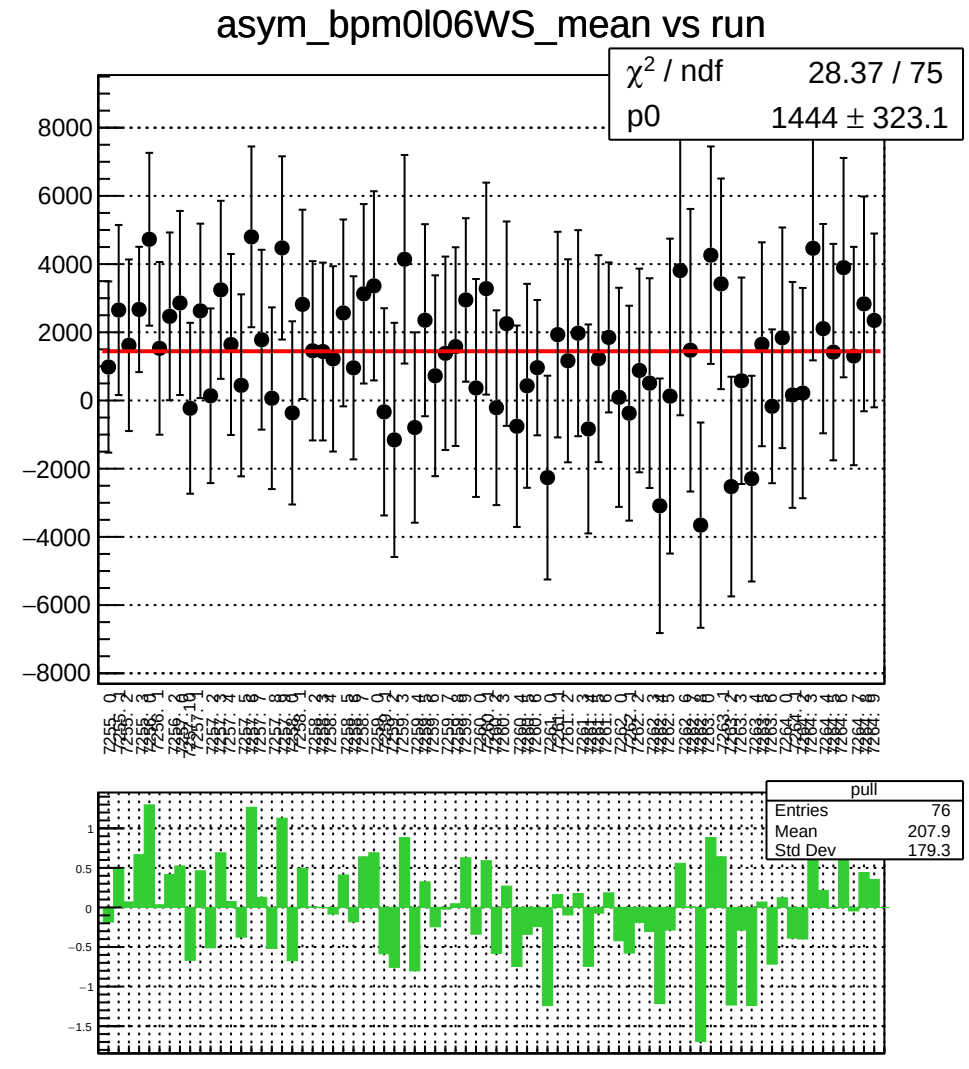

pull1D
Entries 76
Mean −0.02098
Std Dev 0.5833

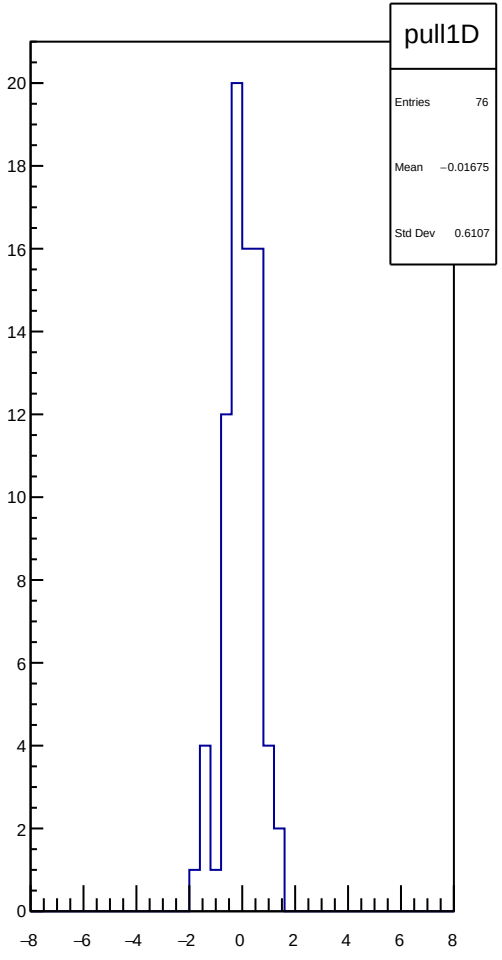

asym_bpm0l04WS_rms vs run
χ² / ndf 1.792e+04 / 75
p0 275.8 ± 0.2286
450
400
350
300
250

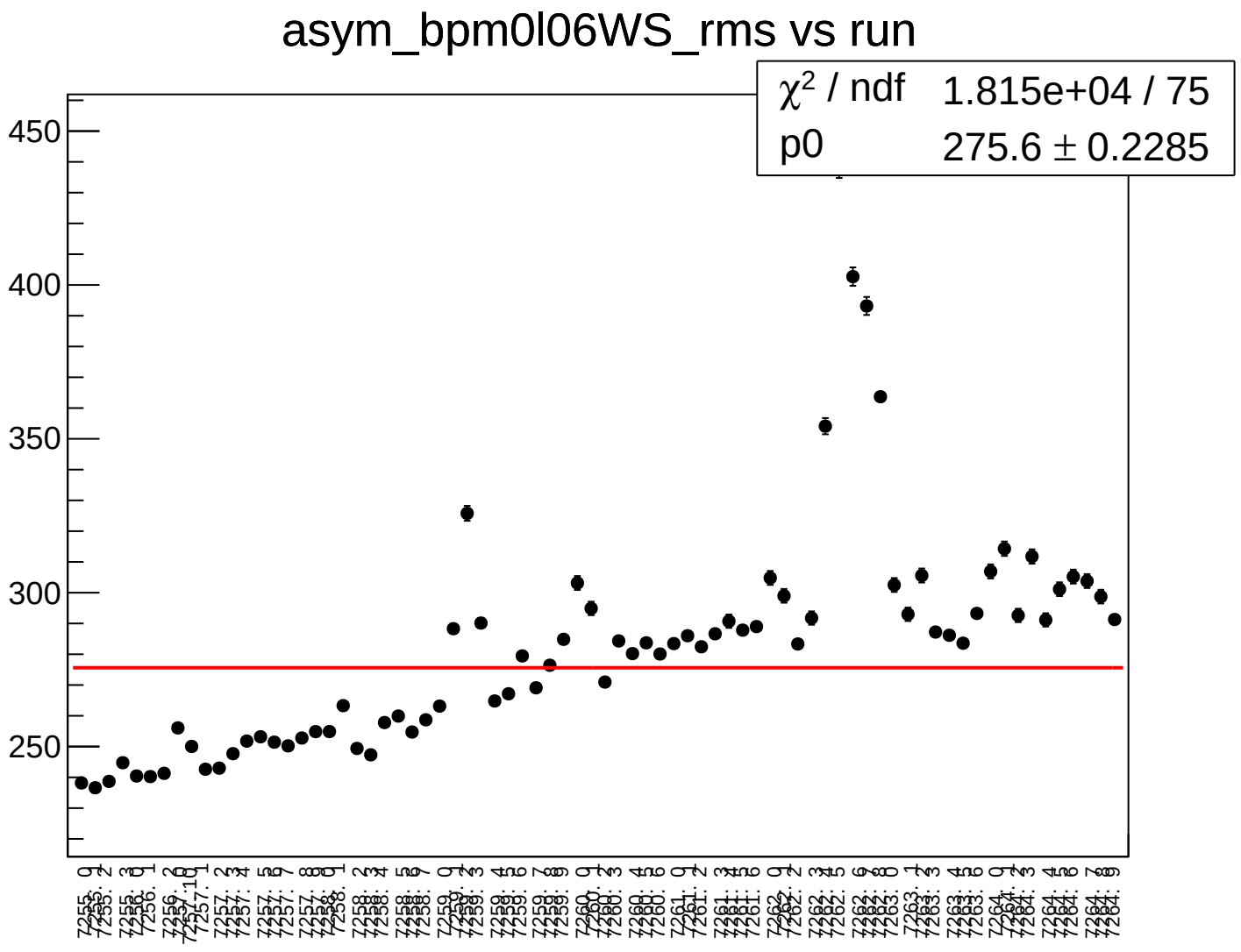

asym_bpm0l05WS_mean vs run
χ² / ndf 31.26 / 75
p0 1711 ± 328.2
pull
Entries 76
Mean 188.5
Std Dev 158

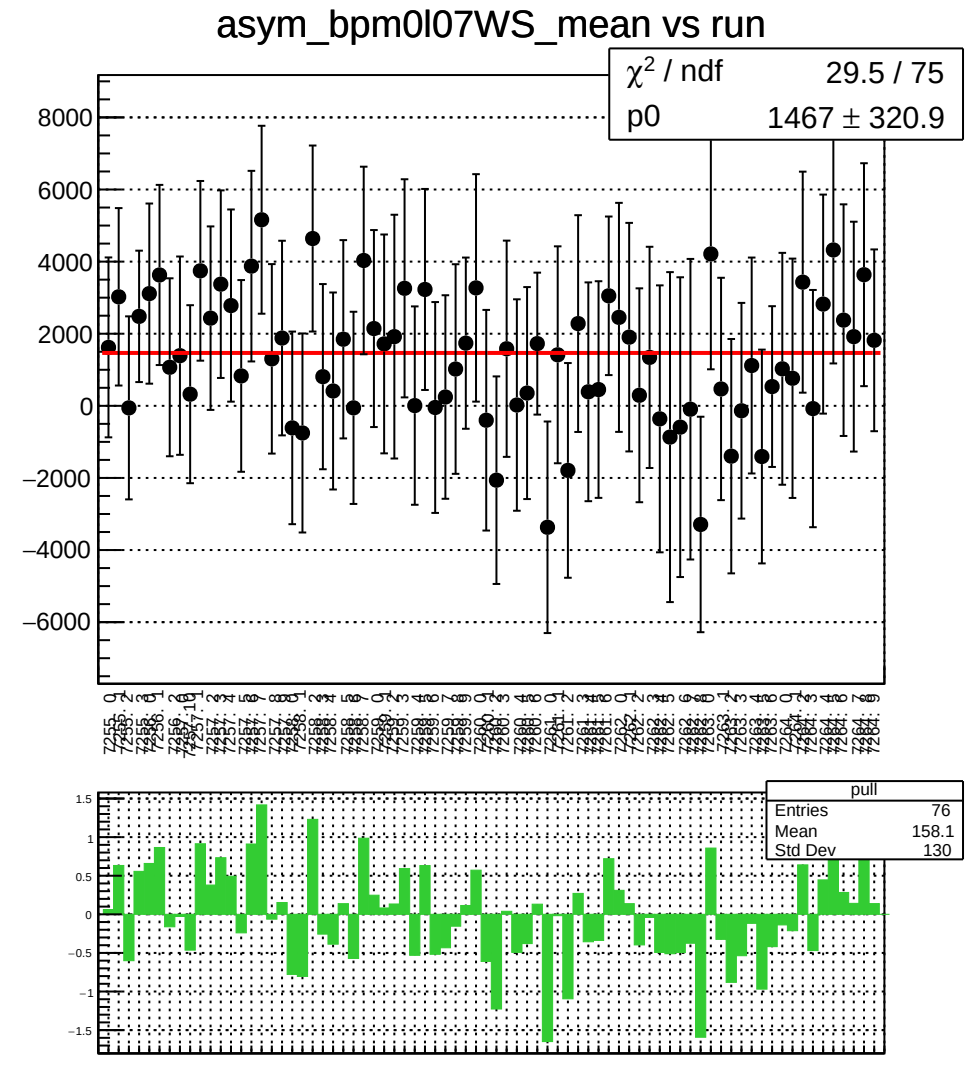

pull1D
Entries 76
Mean −0.02092
Std Dev 0.641

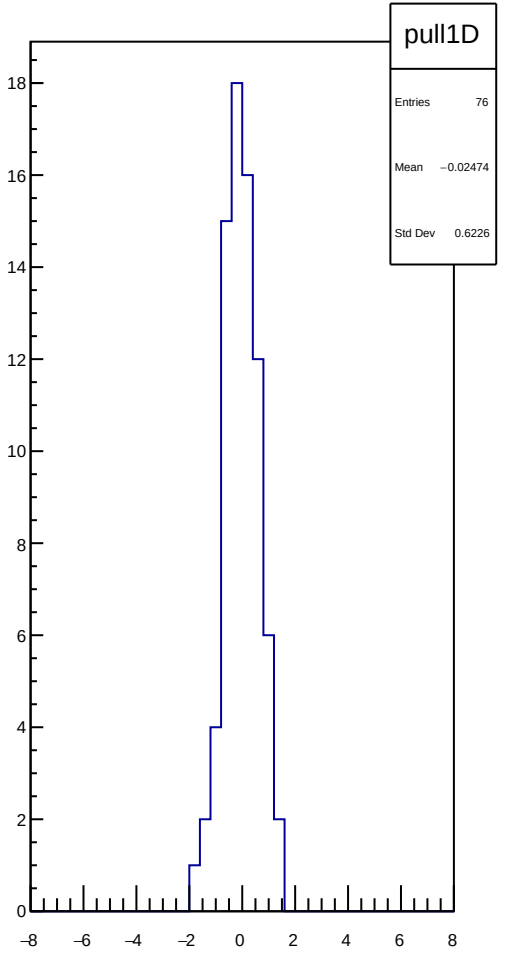

asym_bpm0l05WS_rms vs run
χ² / ndf 1.784e+04 / 75
p0 280 ± 0.2321
450
400
350
300
250

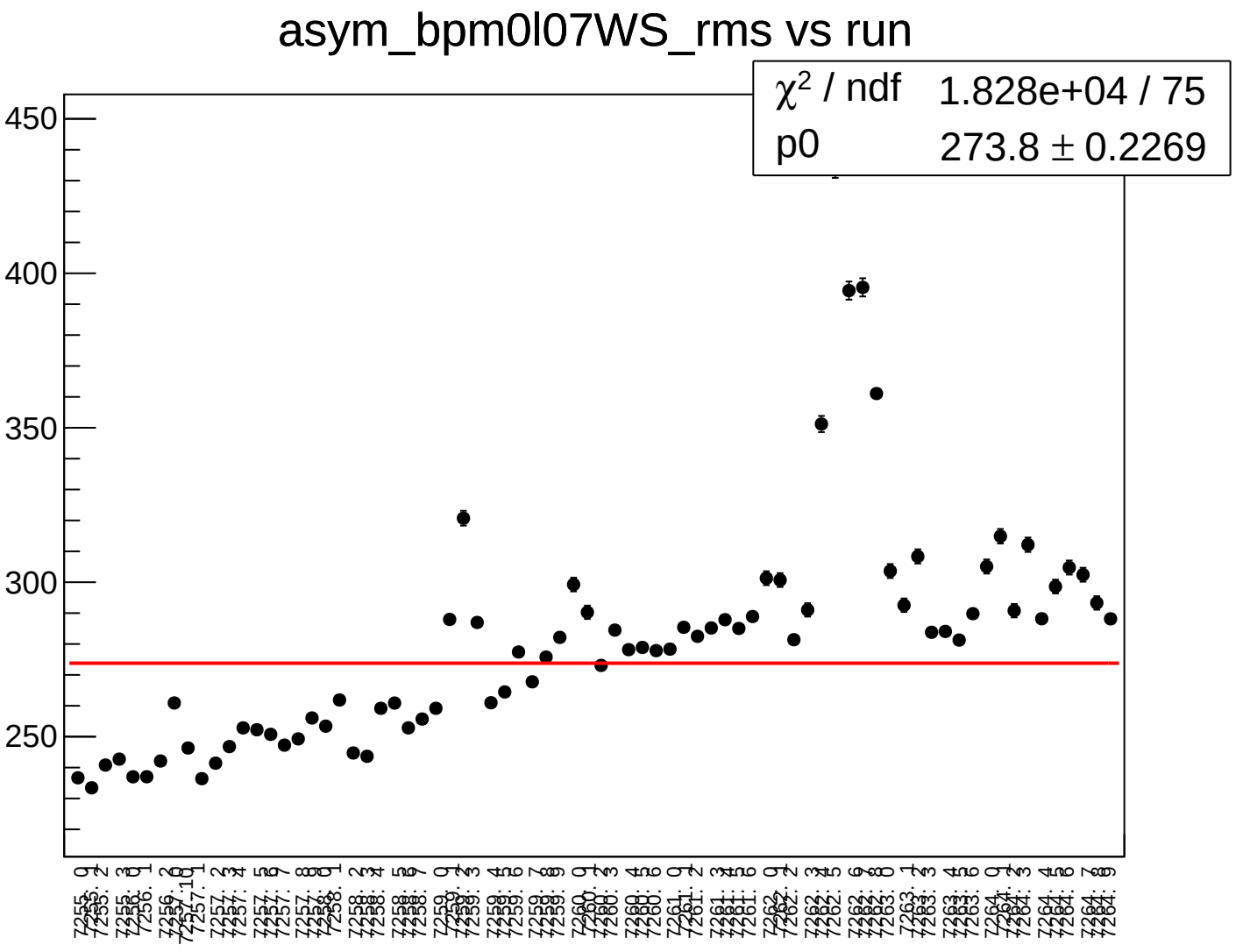

asym_bpm0l06WS_mean vs run
χ² / ndf 28.37 / 75
p0 1444 ± 323.1
pull
Entries 76
Mean 207.9
Std Dev 179.3

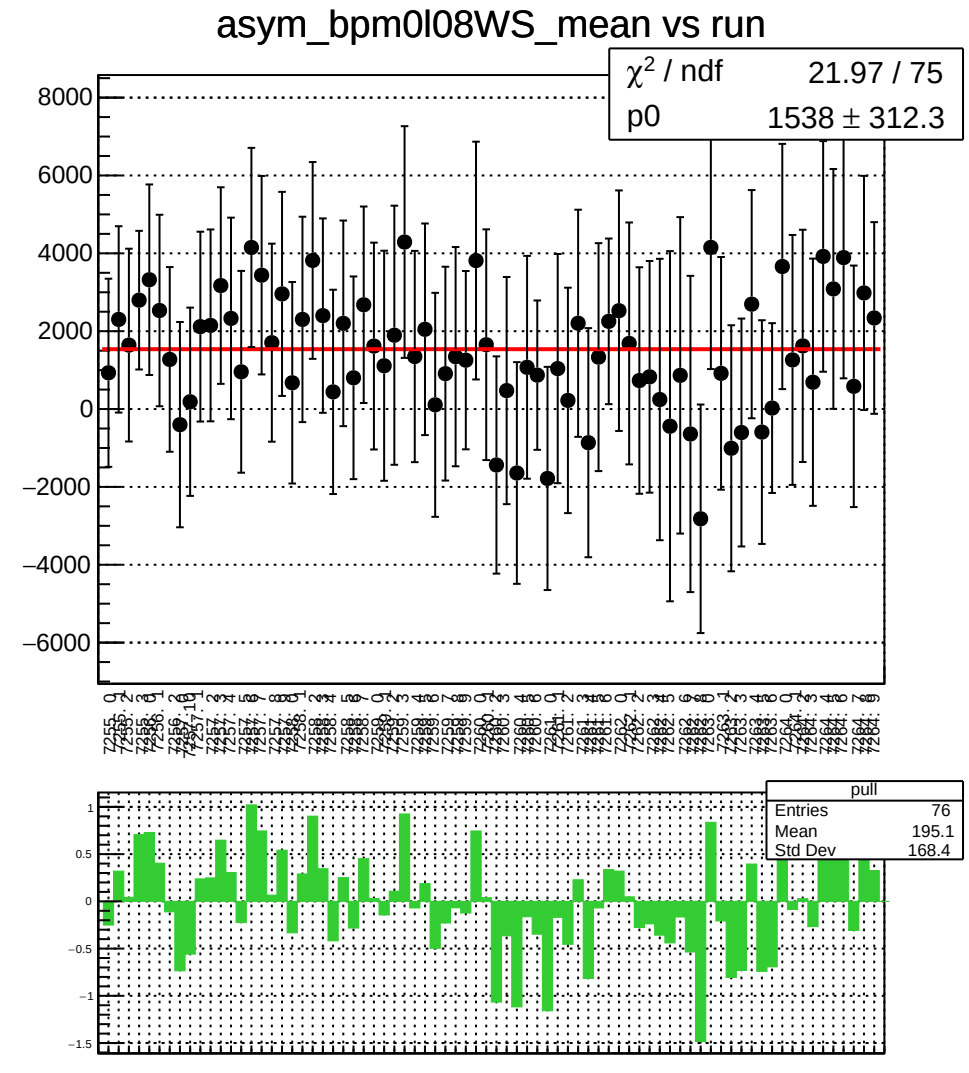

pull1D
Entries 76
Mean −0.01675
Std Dev 0.6107

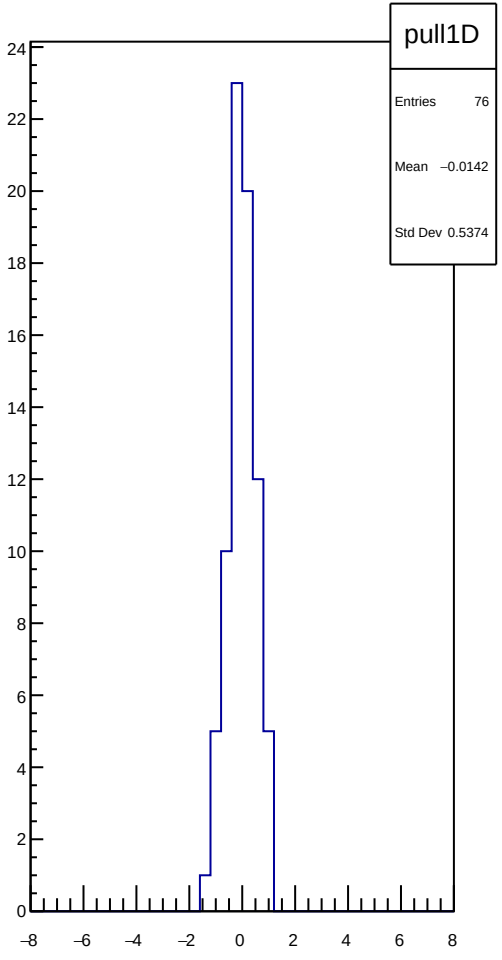

asym_bpm0l06WS_rms vs run
χ² / ndf 1.815e+04 / 75
p0 275.6 ± 0.2285
450
400
350
300
250

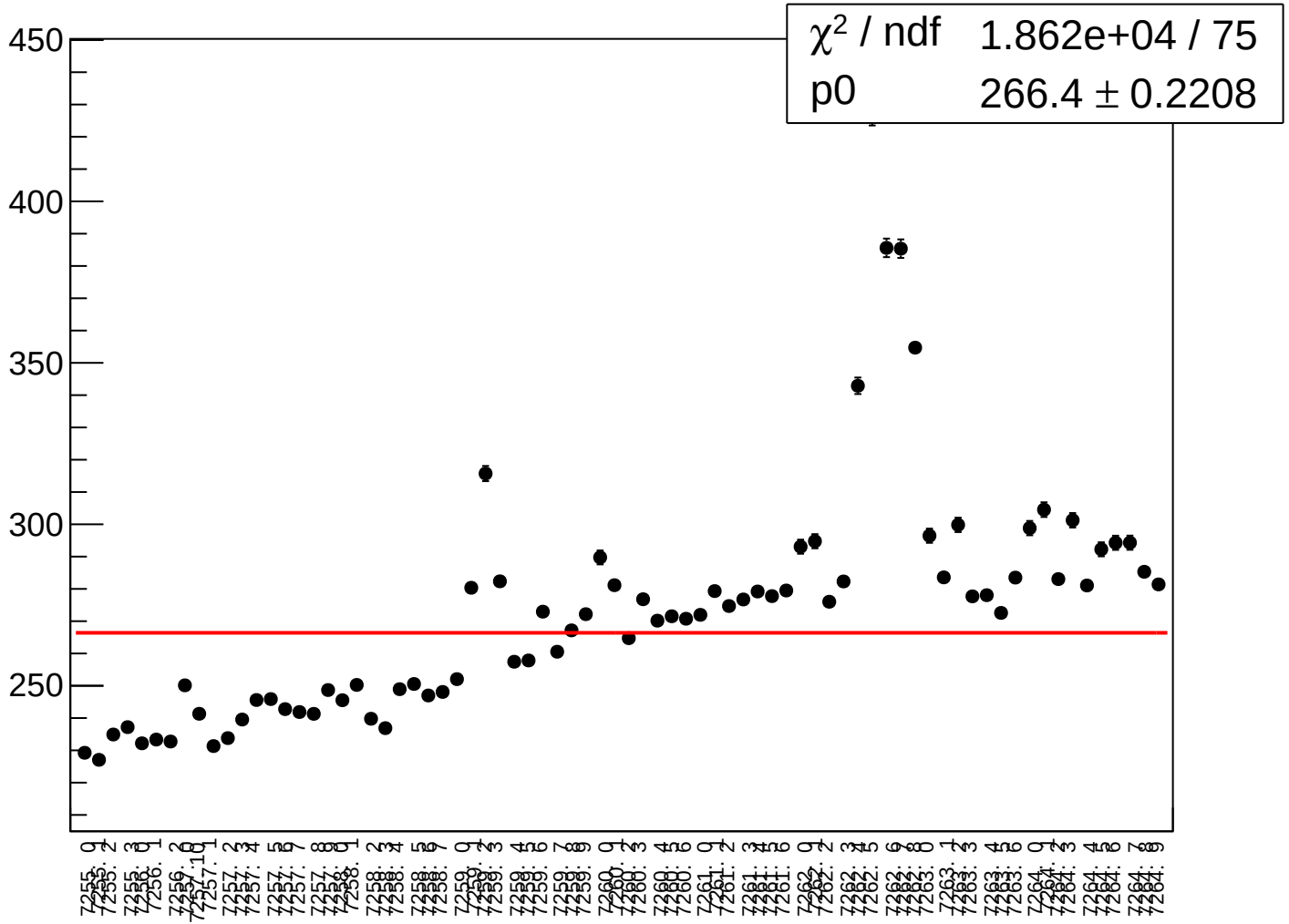

asym_bpm0l07WS_mean vs run
χ² / ndf 29.5 / 75
p0 1467 ± 320.9
pull
Entries 76
Mean 158.1
Std Dev 130

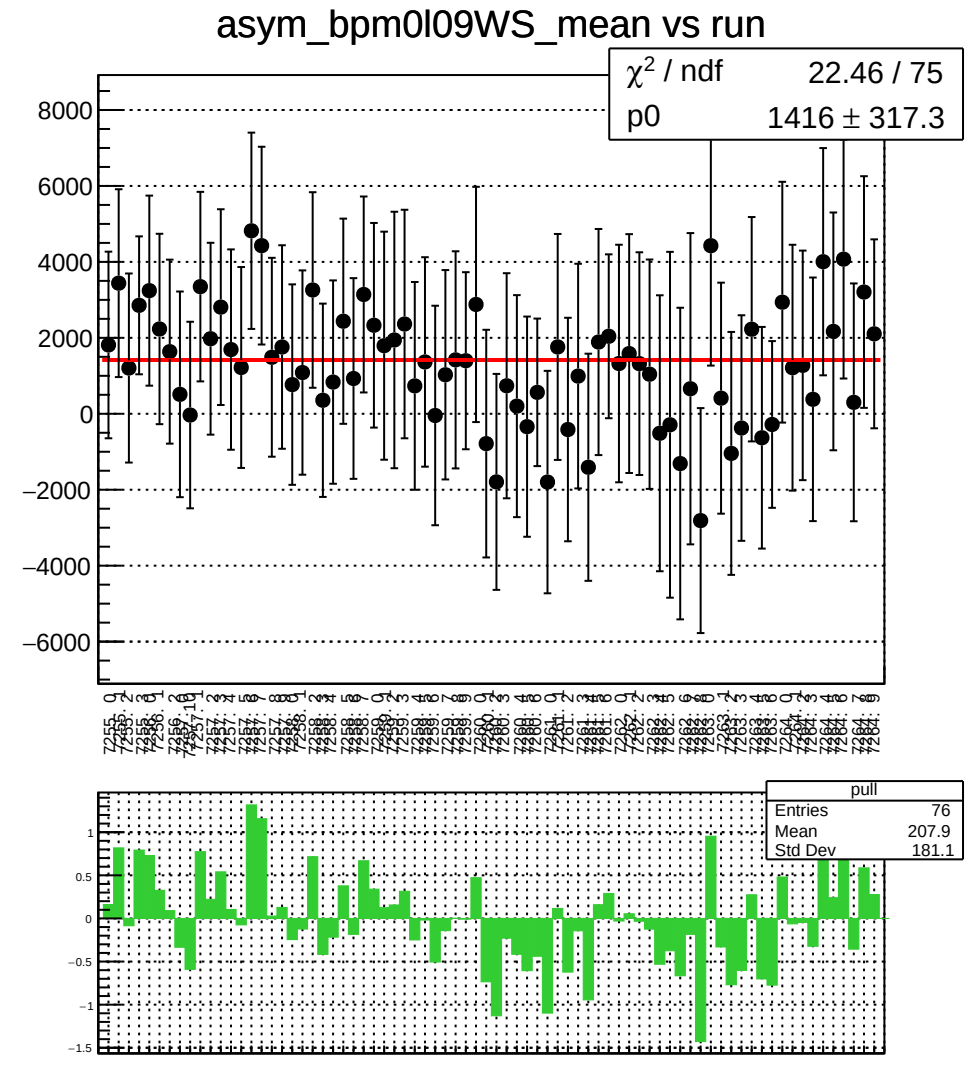

pull1D
Entries 76
Mean −0.02474
Std Dev 0.6226

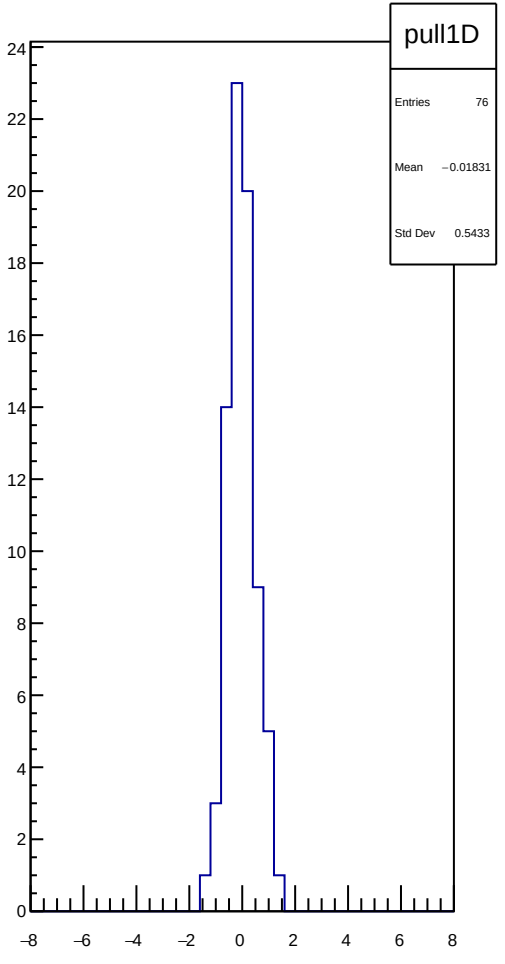

asym_bpm0l07WS_rms vs run
χ² / ndf 1.828e+04 / 75
p0 273.8 ± 0.2269
450
400
350
300
250

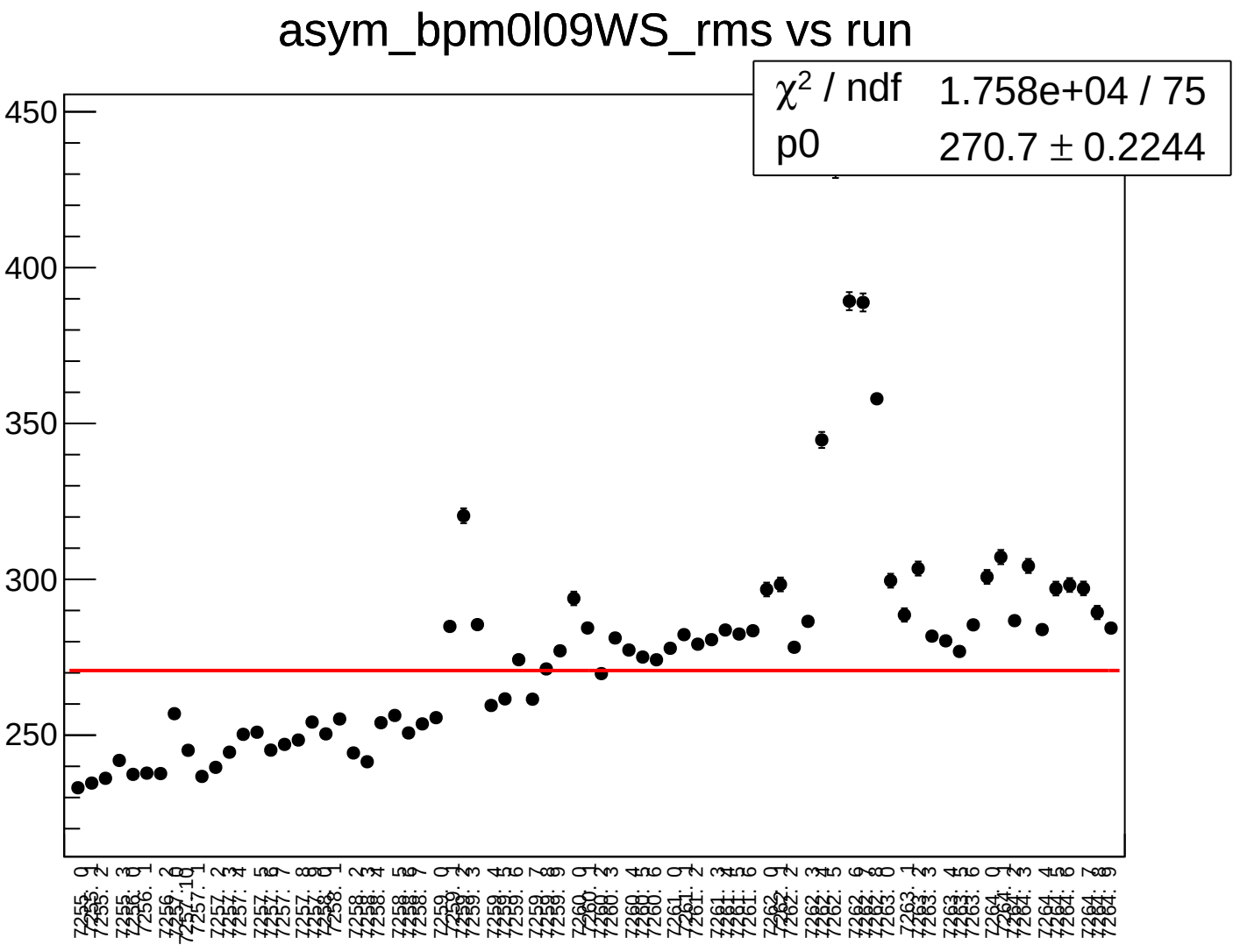

asym_bpm0l08WS_mean vs run
χ² / ndf 21.97 / 75
p0 1538 ± 312.3
pull
Entries 76
Mean 195.1
Std Dev 168.4

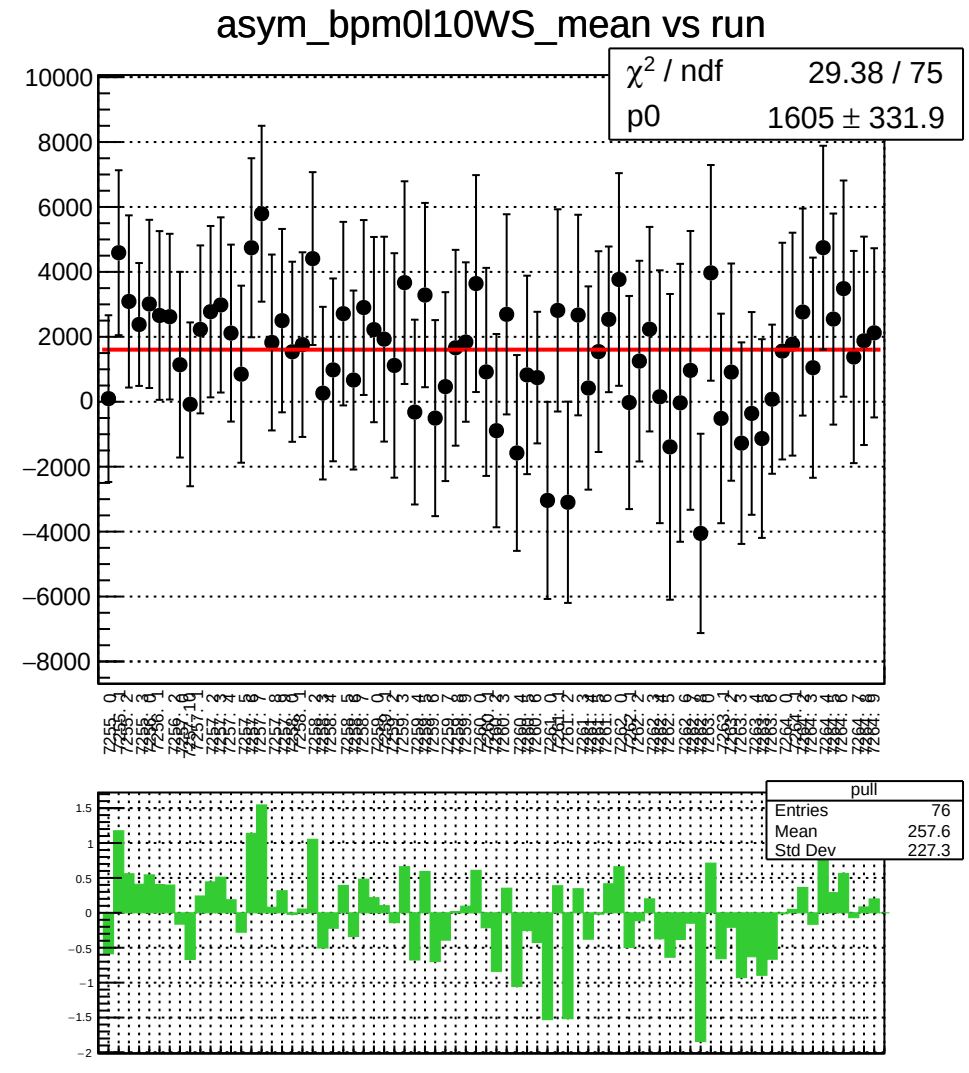

pull1D
Entries 76
Mean −0.0142
Std Dev 0.5374

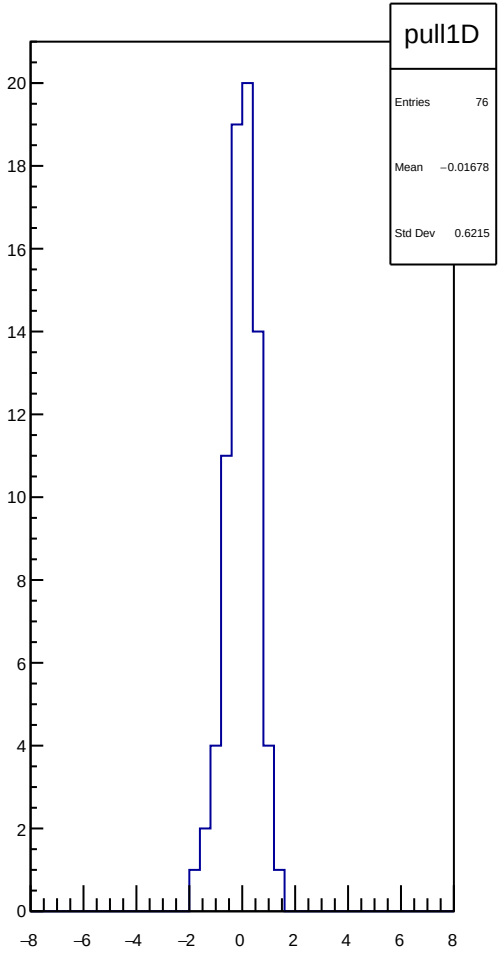

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.862e+04 / 75
p0 266.4 ± 0.2208
450
400
350
300
250

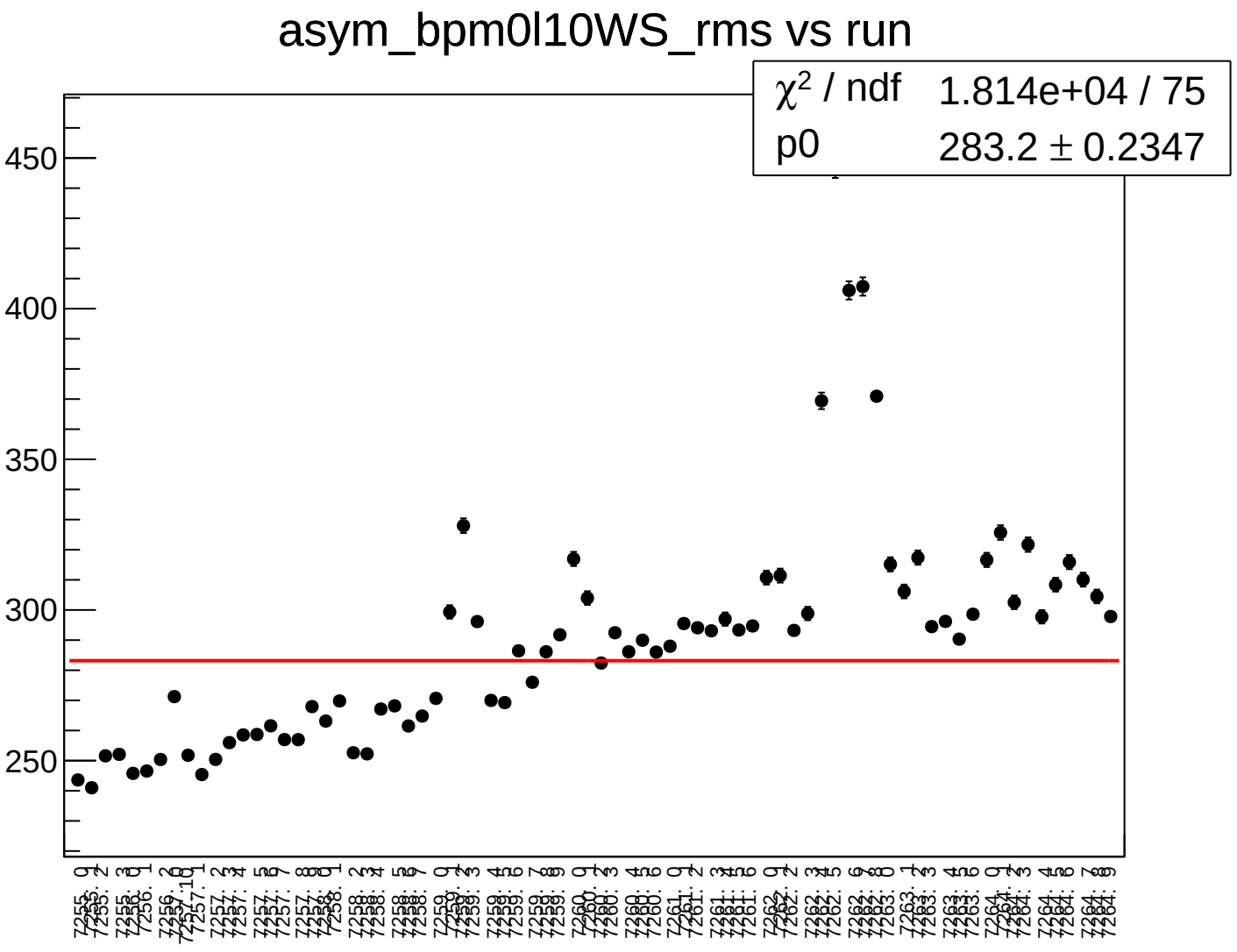

asym_bpm0l09WS_mean vs run
χ^2 / ndf 22.46 / 75
p0 1416 ± 317.3
pull
Entries 76
Mean 207.9
Std Dev 181.1

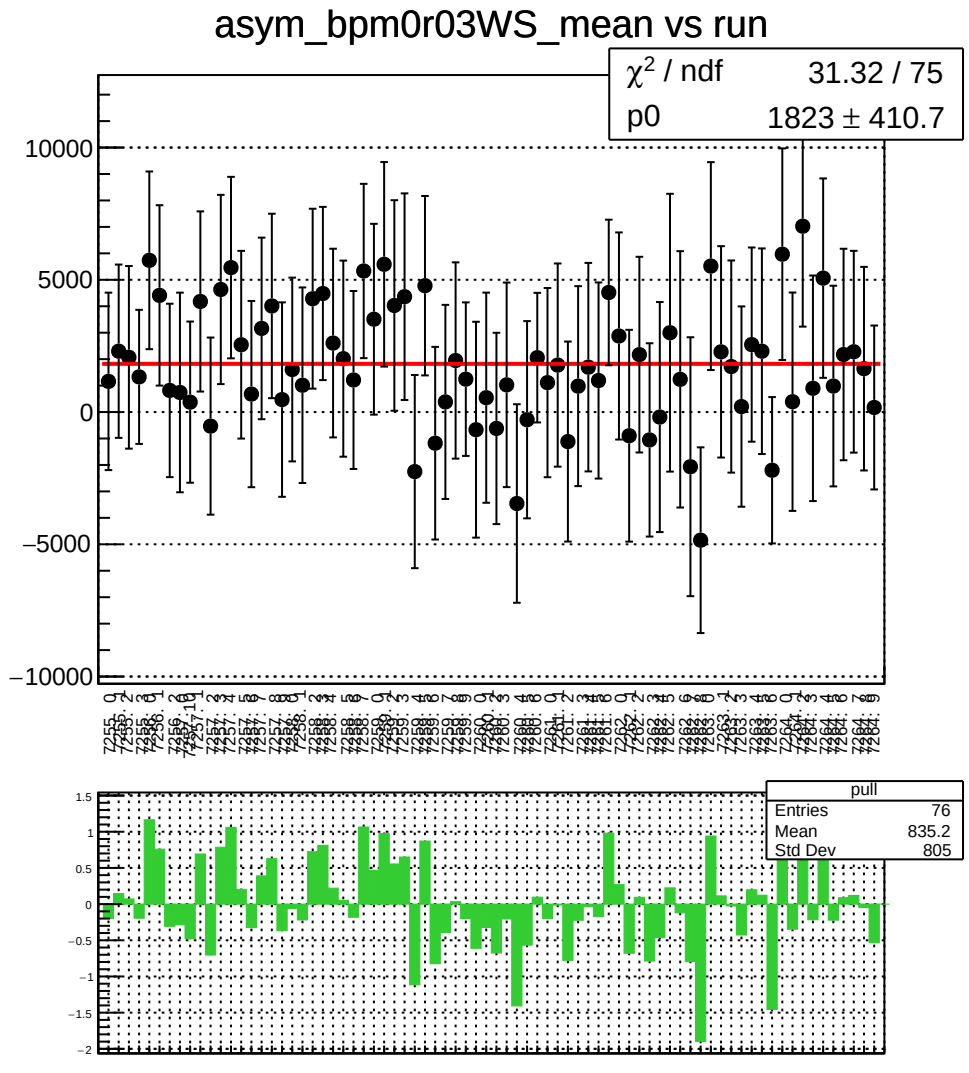

pull1D
Entries 76
Mean −0.01831
Std Dev 0.5433

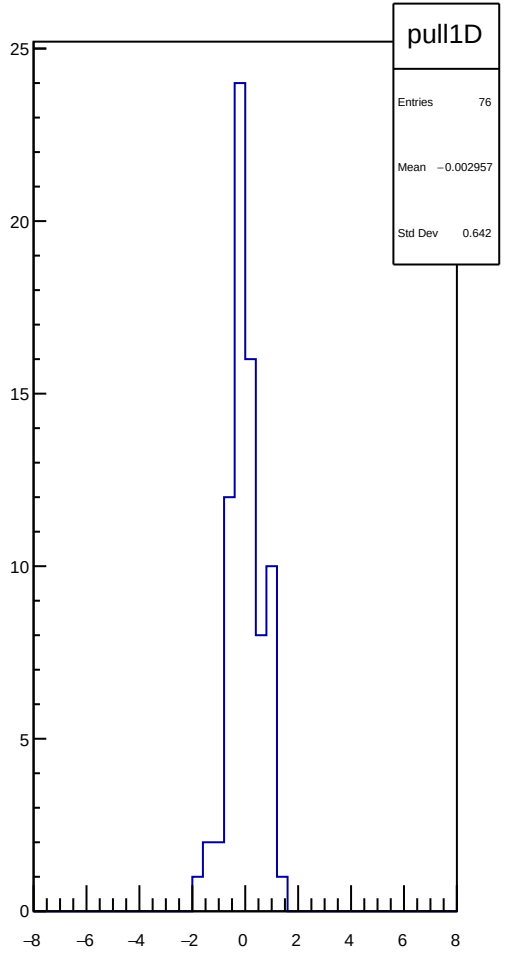

asym_bpm0l09WS_rms vs run
χ² / ndf 1.758e+04 / 75
p0 270.7 ± 0.2244
450
400
350
300
250

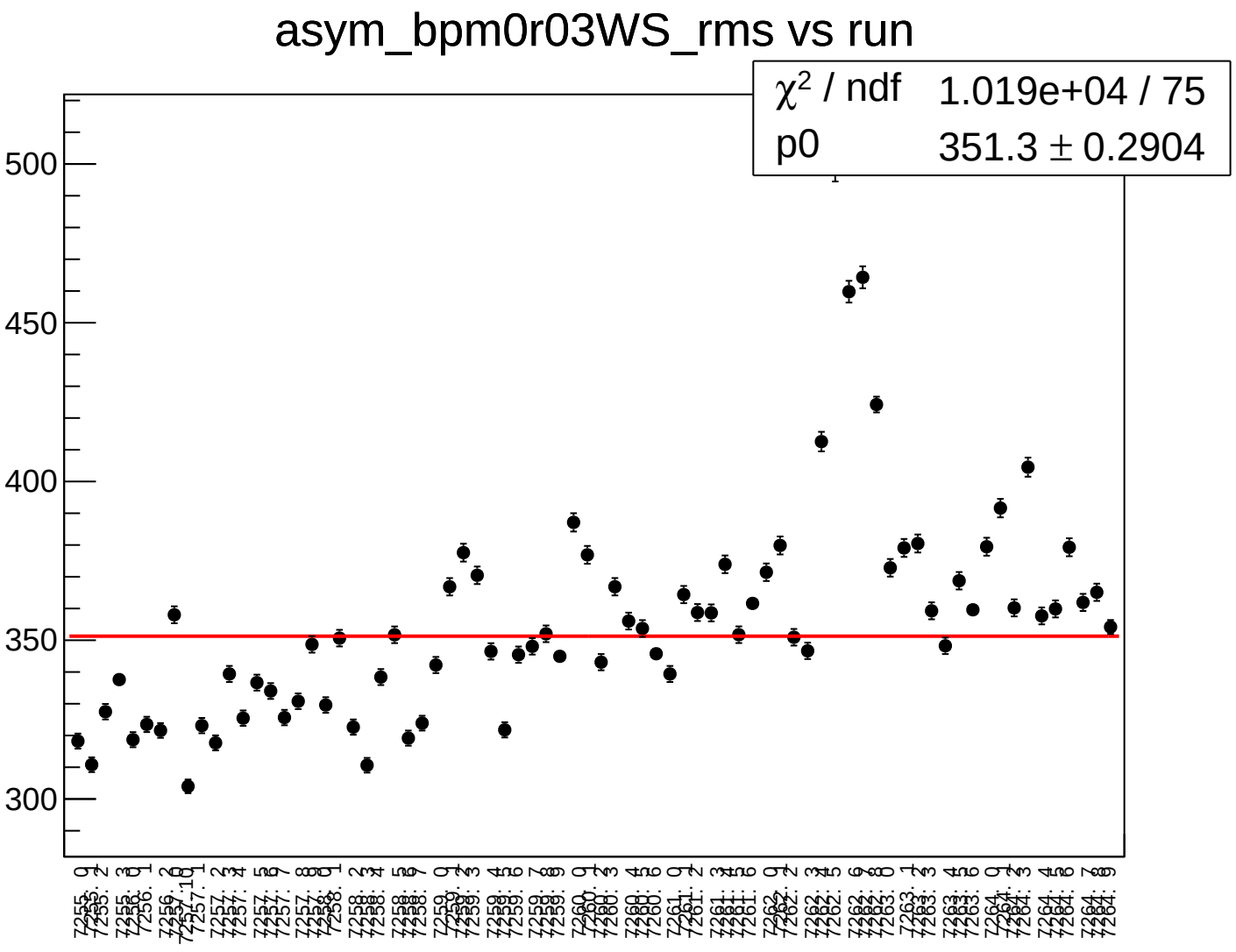

asym_bpm0l10WS_mean vs run
χ² / ndf 29.38 / 75
p0 1605 ± 331.9
pull
Entries 76
Mean 257.6
Std Dev 227.3

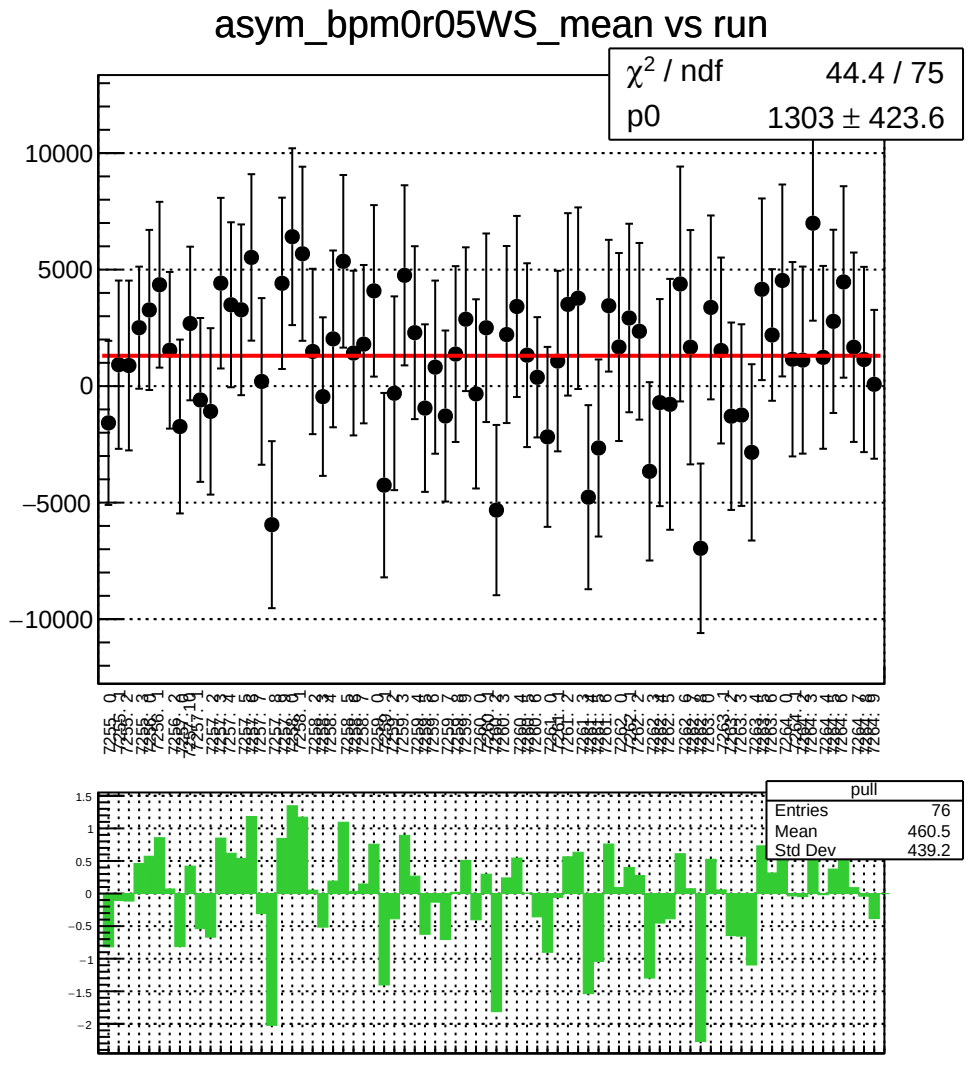

pull1D
Entries 76
Mean −0.01678
Std Dev 0.6215

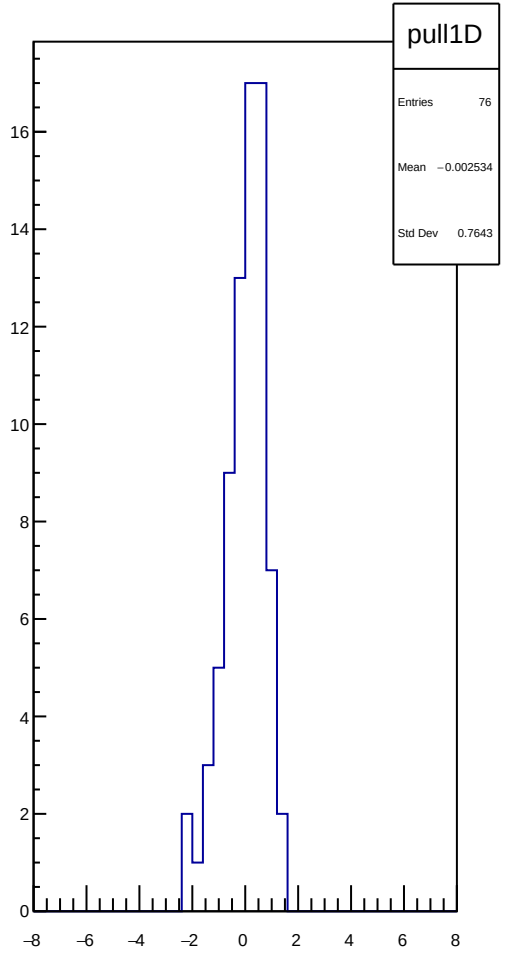

asym_bpm0l10WS_rms vs run
χ² / ndf 1.814e+04 / 75
p0 283.2 ± 0.2347
450
400
350
300
250

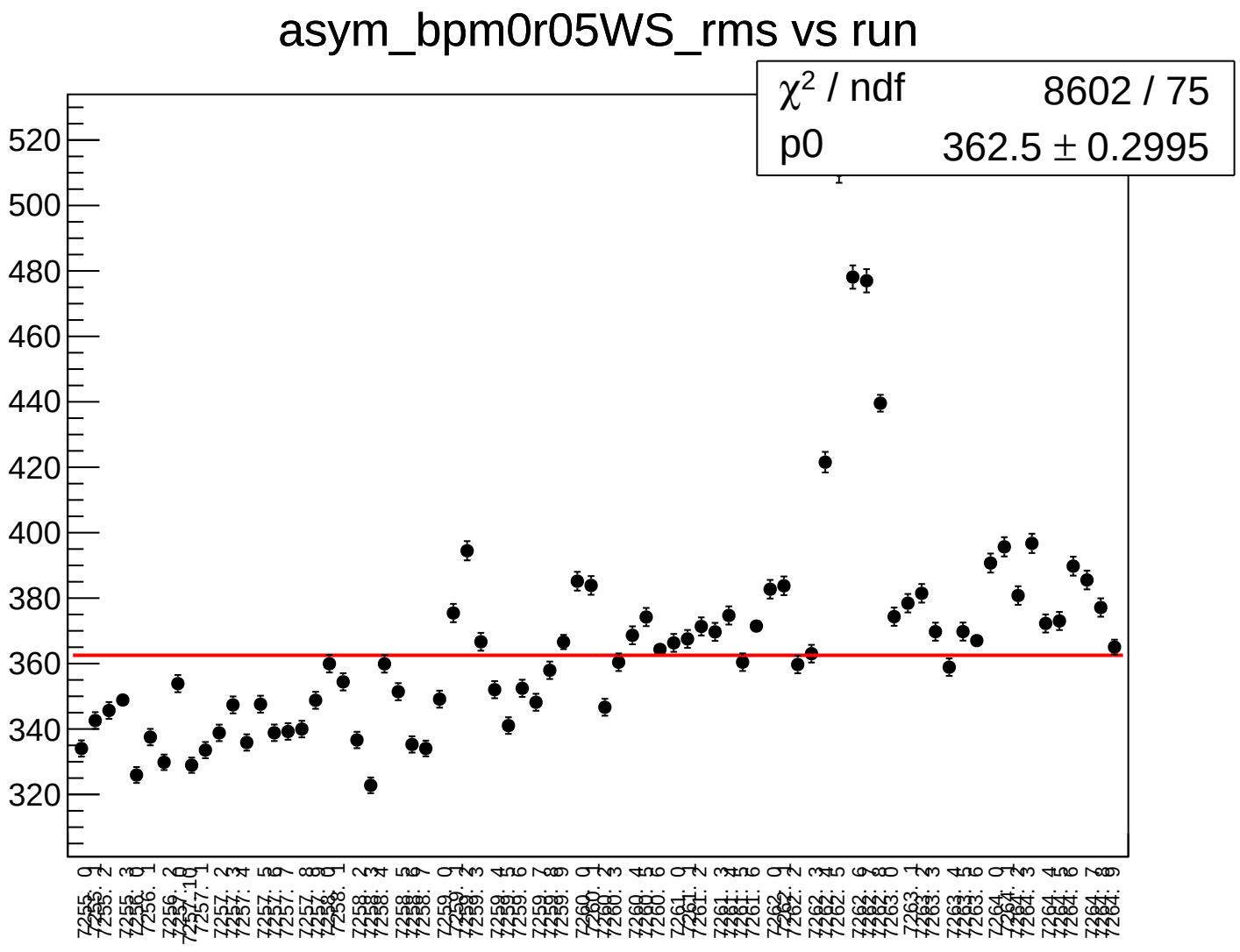

asym_bpm0r03WS_mean vs run
χ^2 / ndf 31.32 / 75
p0 1823 ± 410.7
10000
5000
0
−5000
−10000
pull
Entries 76
Mean 835.2
Std Dev 805
1.5
1
0.5
0
−0.5
−1
−1.5
−2

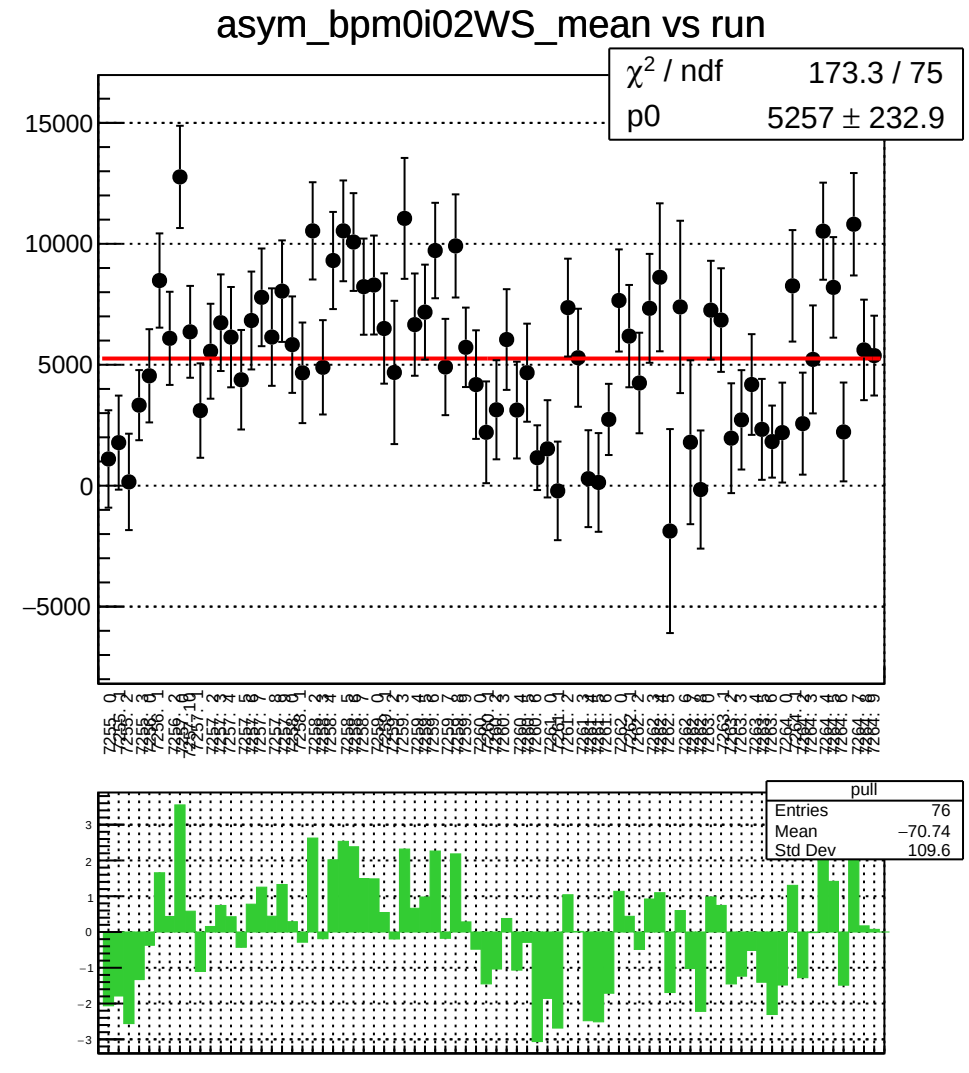

pull1D
Entries 76
Mean −0.002957
Std Dev 0.642
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

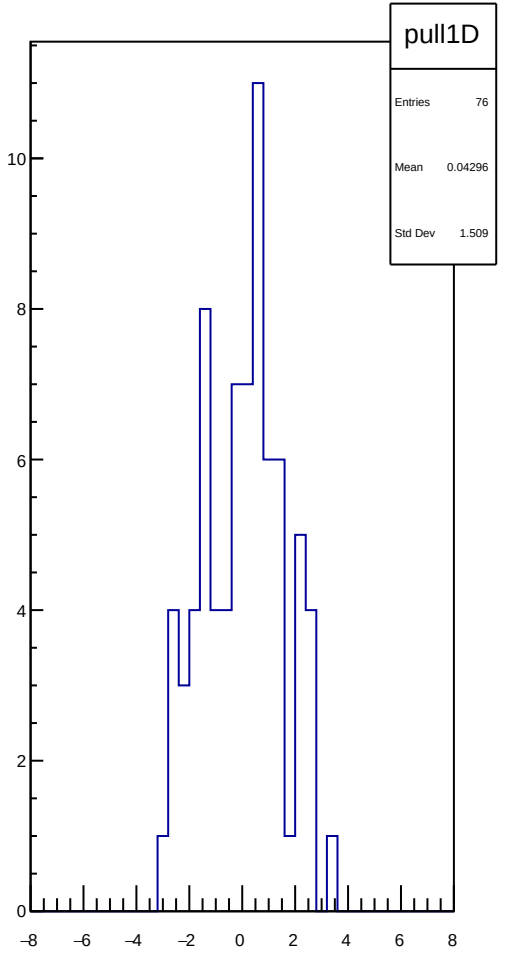

asym_bpm0r03WS_rms vs run
χ² / ndf 1.019e+04 / 75
p0 351.3 ± 0.2904
500
450
400
350
300

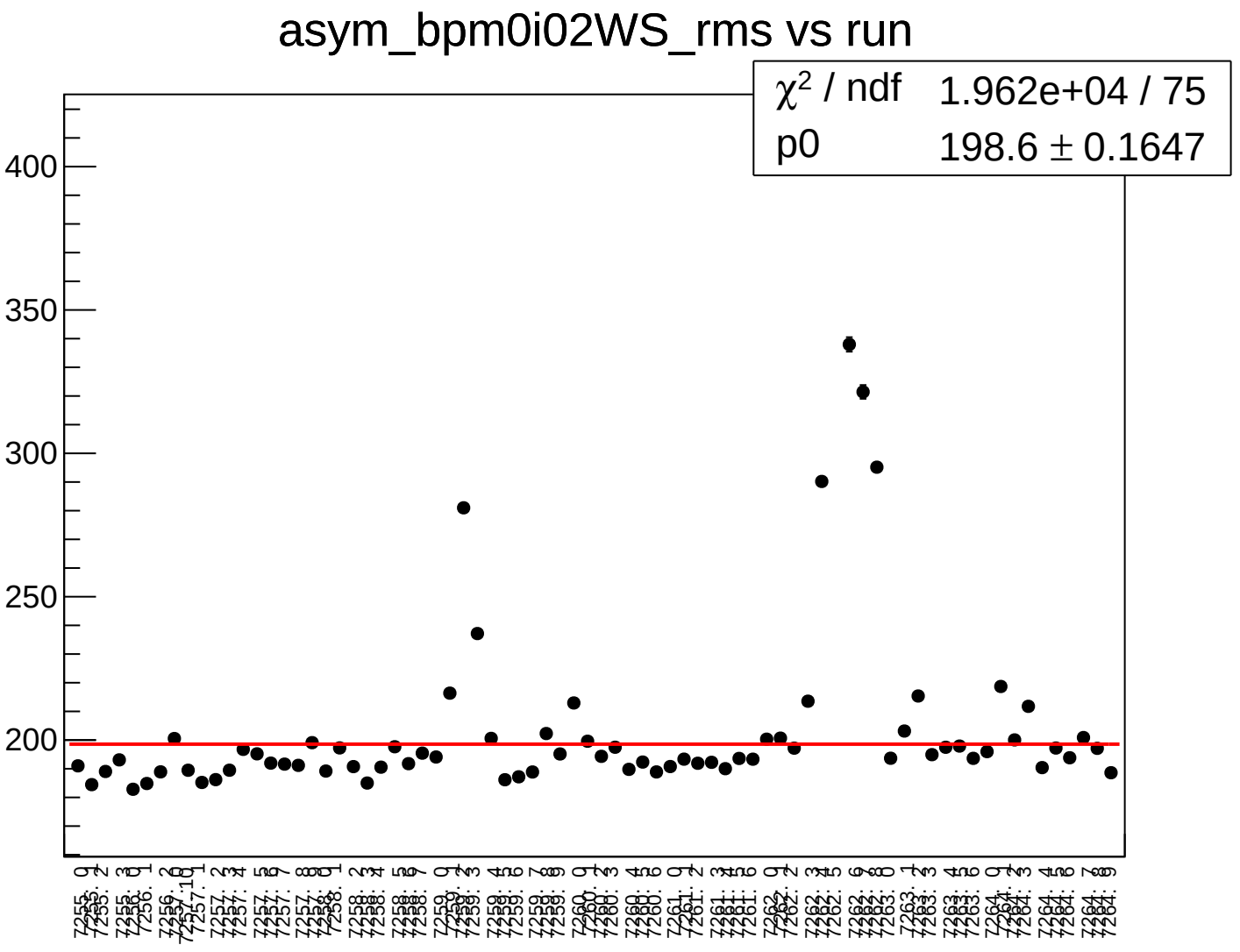

asym_bpm0r05WS_mean vs run
χ² / ndf 44.4 / 75
p0 1303 ± 423.6
10000
5000
0
−5000
−10000
pull
Entries 76
Mean 460.5
Std Dev 439.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

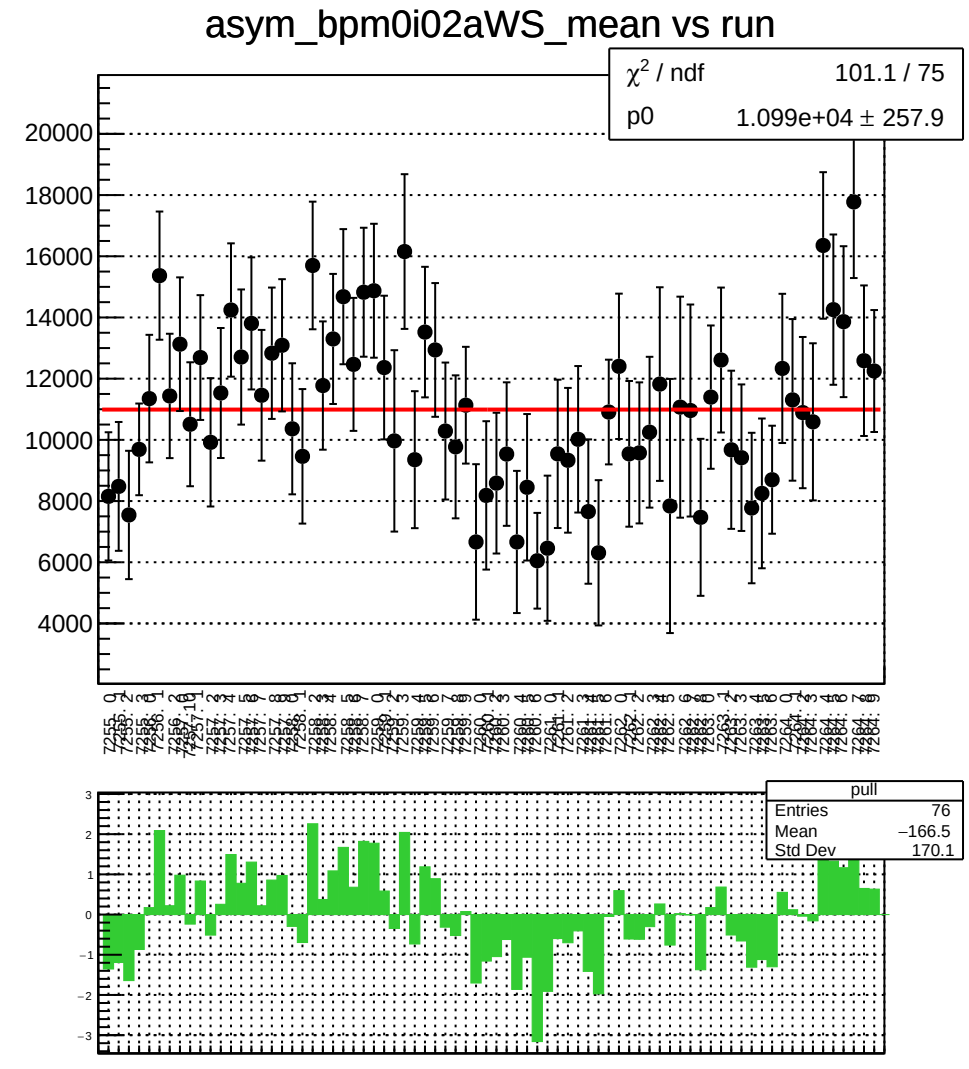

pull1D
Entries 76
Mean −0.002534
Std Dev 0.7643
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

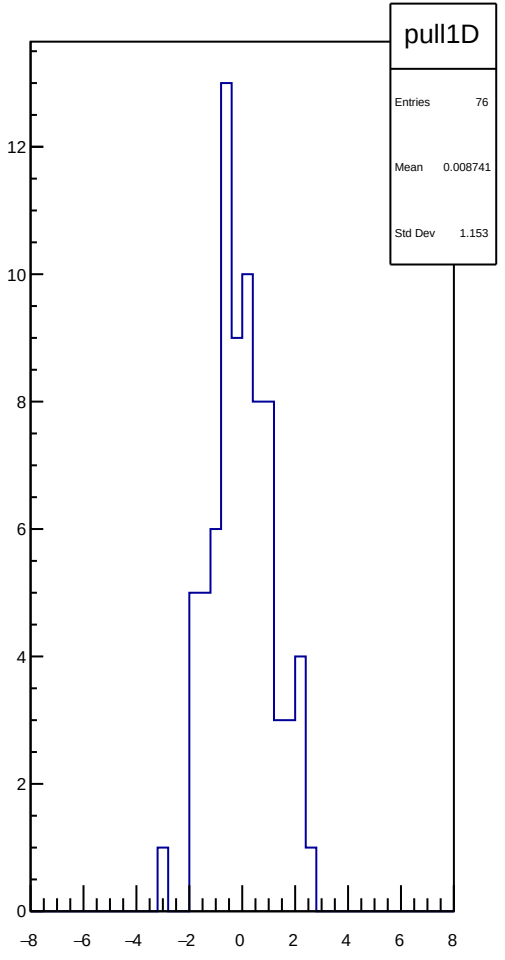

asym_bpm0r05WS_rms vs run
χ² / ndf 8602 / 75
p0 362.5 ± 0.2995
520
500
480
460
440
420
400
380
360
340
320

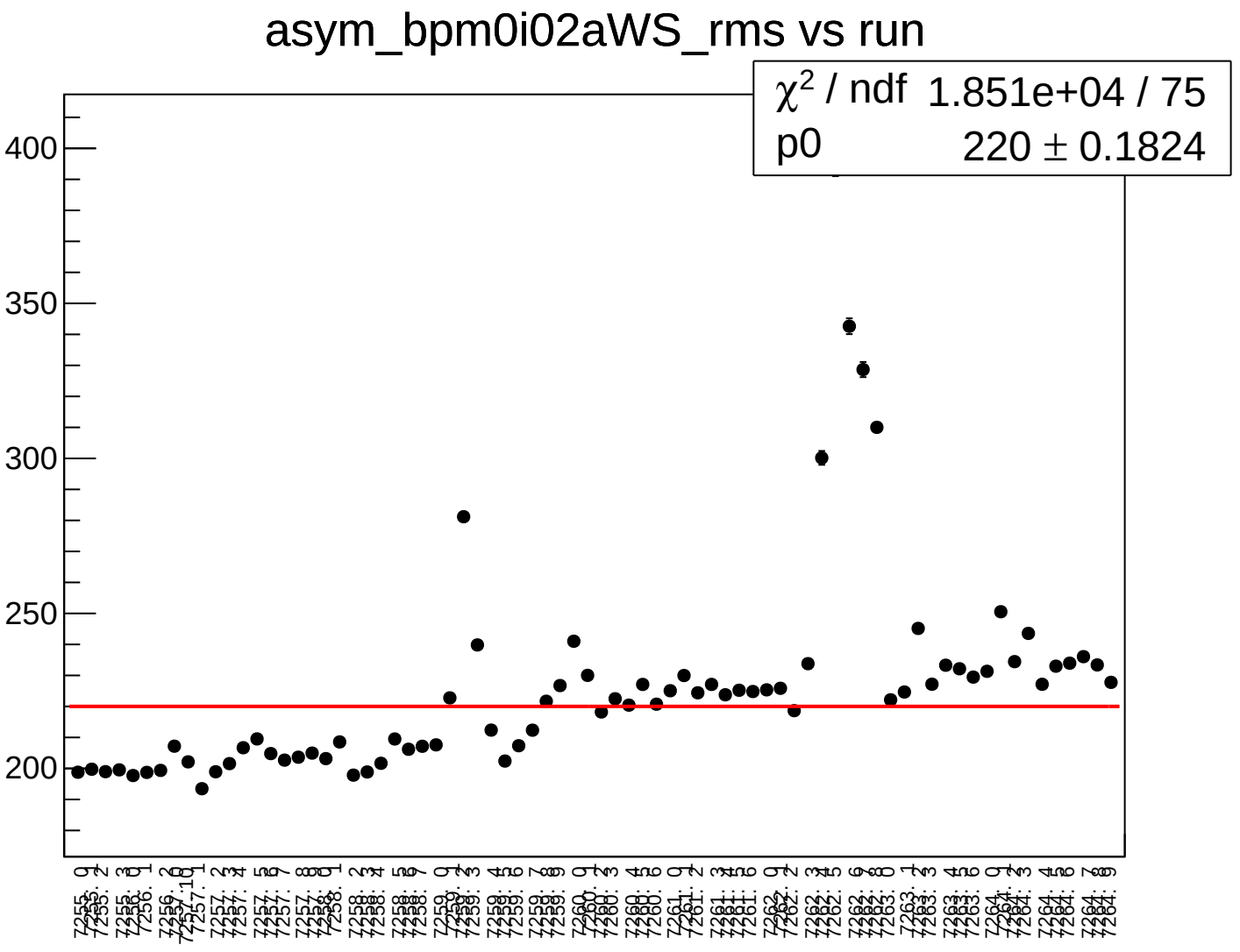

asym_bpm0i02WS_mean vs run
χ² / ndf 173.3 / 75
p0 5257 ± 232.9
15000
10000
5000
0
−5000
pull
Entries 76
Mean −70.74
Std Dev 109.6
3
2
1
0
−1
−2
−3

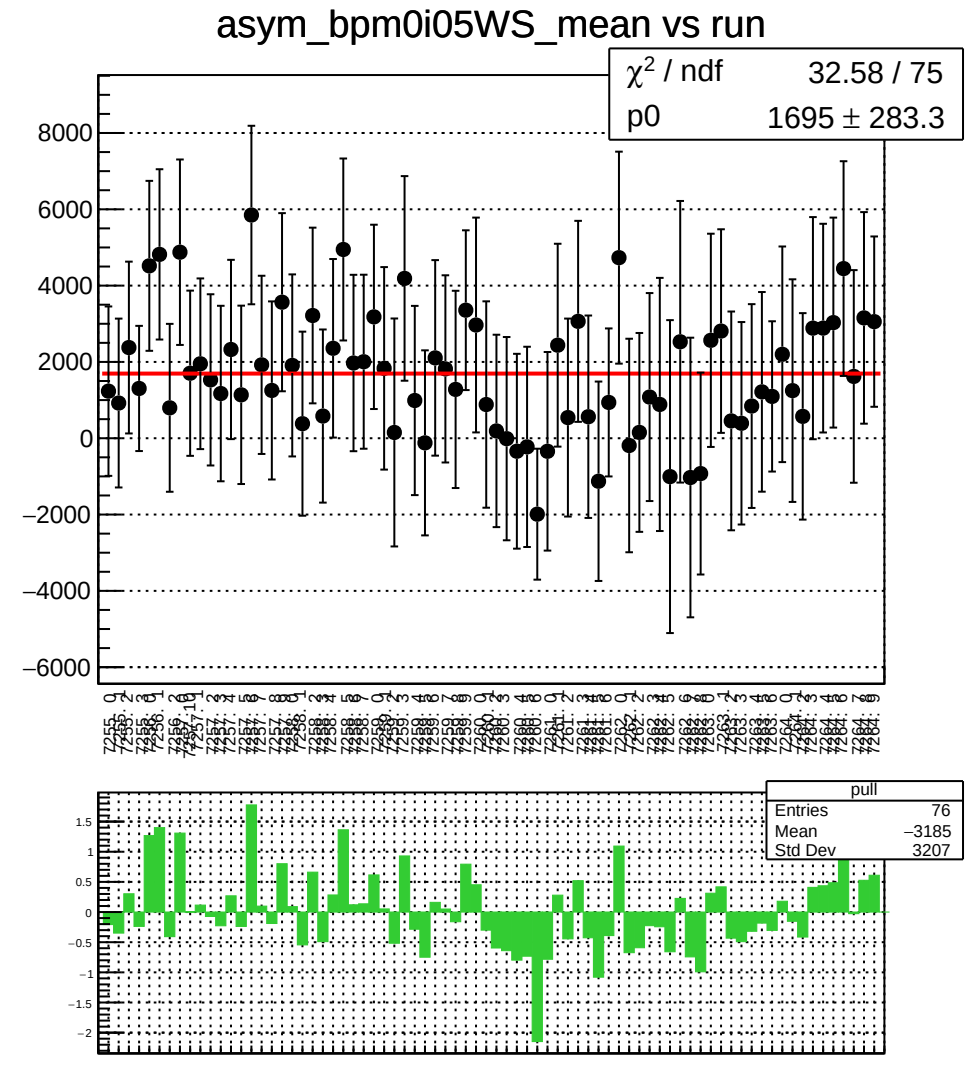

pull1D
Entries 76
Mean 0.04296
Std Dev 1.509
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

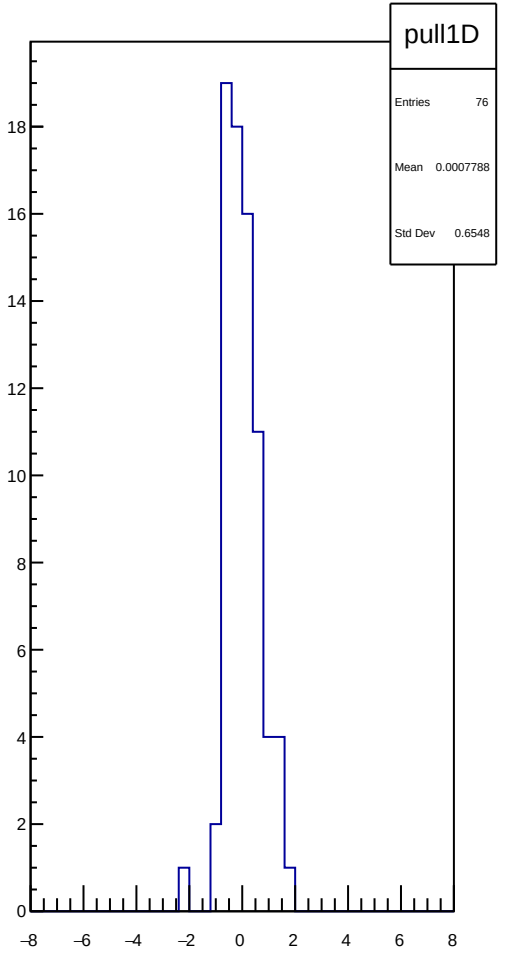

asym_bpm0i02WS_rms vs run
χ² / ndf 1.962e+04 / 75
p0 198.6 ± 0.1647
400
350
300
250
200

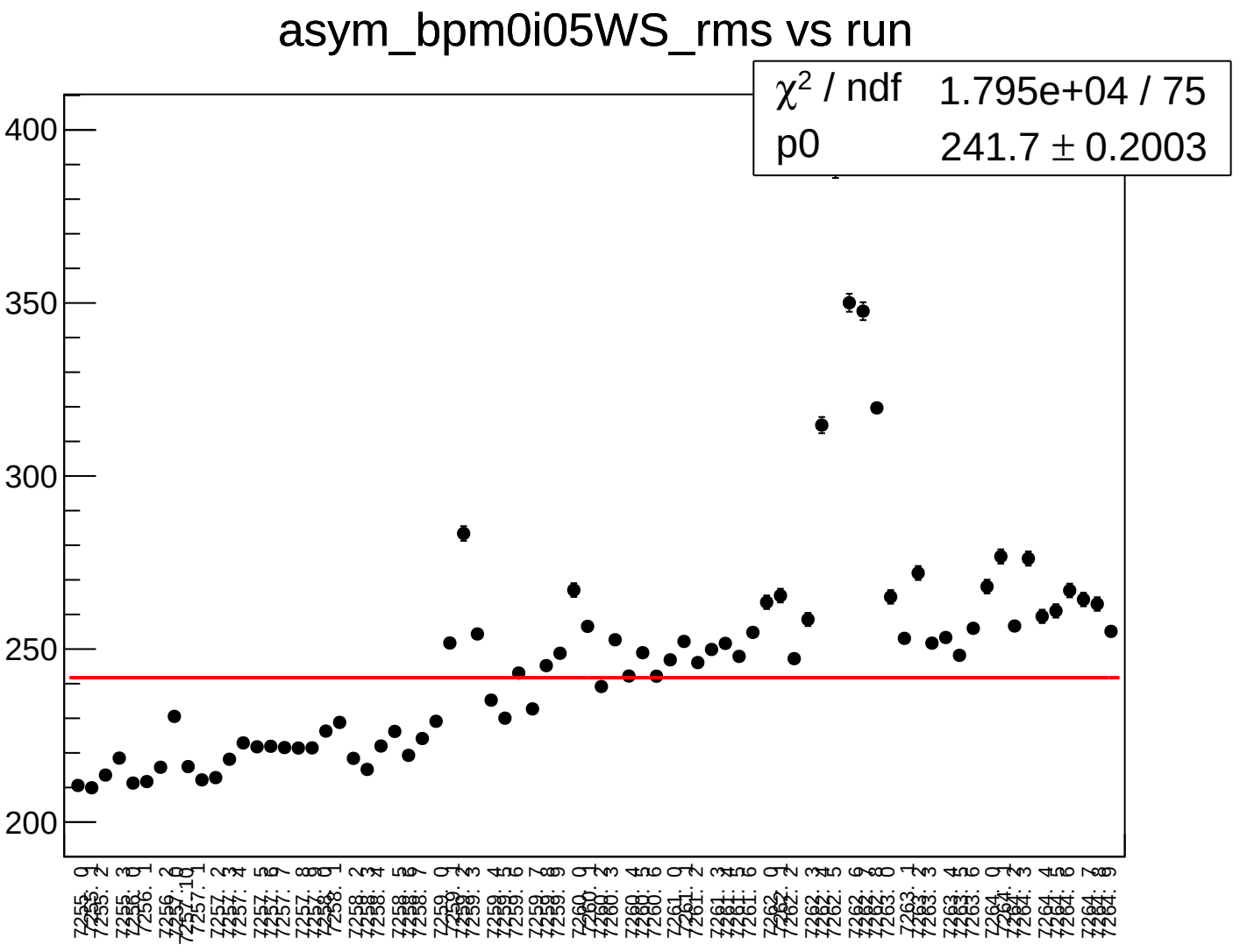

asym_bpm0i02aWS_mean vs run
χ² / ndf 101.1 / 75
p0 1.099e+04 ± 257.9
pull
Entries 76
Mean −166.5
Std Dev 170.1

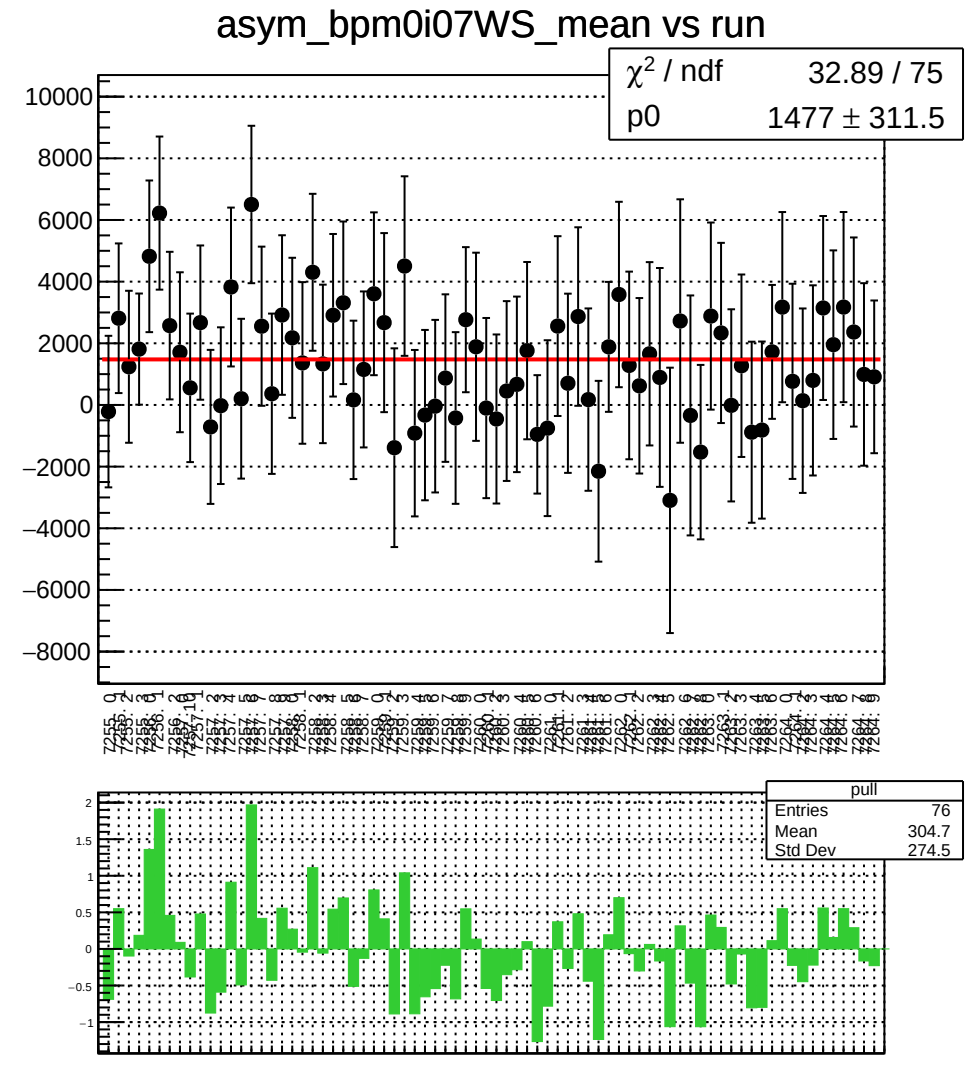

pull1D
Entries 76
Mean 0.008741
Std Dev 1.153

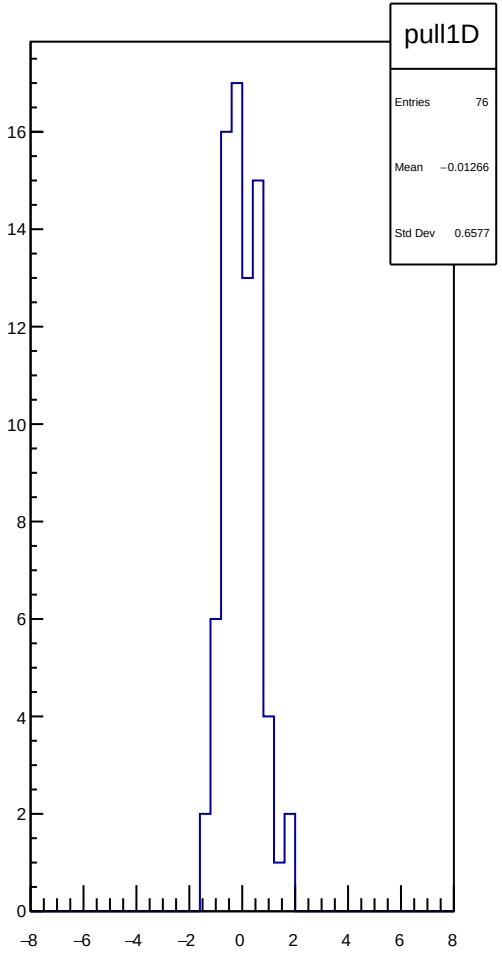

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.851e+04 / 75
p0 220 ± 0.1824
400
350
300
250
200

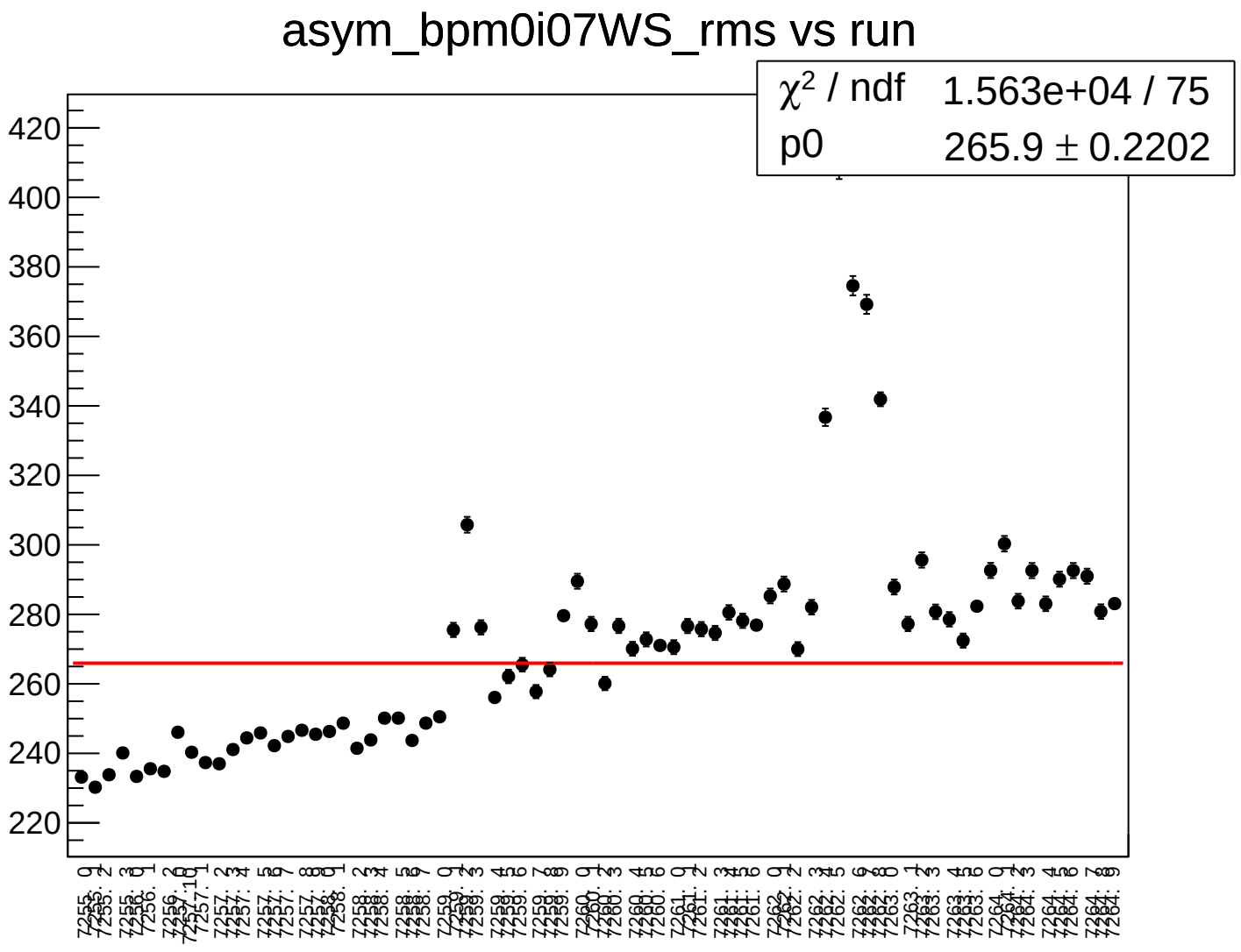

asym_bpm0i05WS_mean vs run
χ² / ndf 32.58 / 75
p0 1695 ± 283.3
pull
Entries 76
Mean −3185
Std Dev 3207

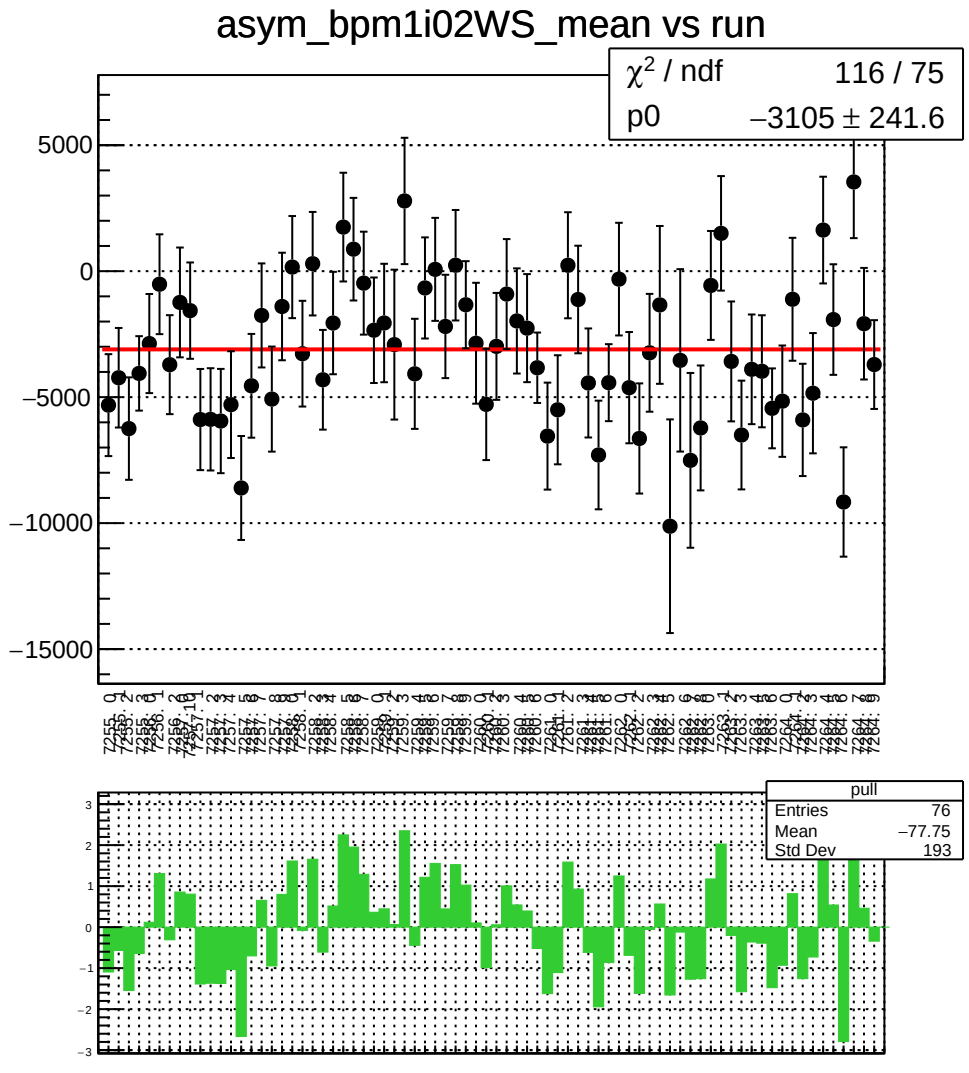

pull1D
Entries 76
Mean 0.0007788
Std Dev 0.6548

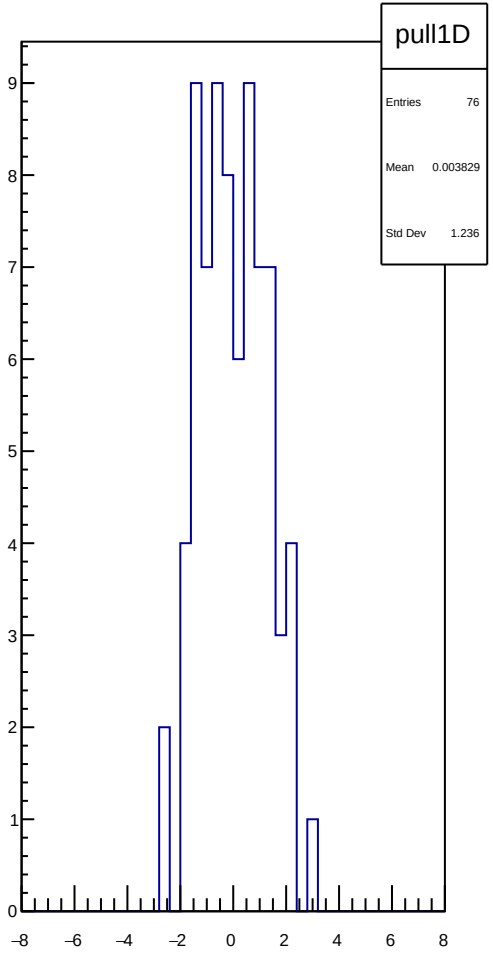

asym_bpm0i05WS_rms vs run
χ² / ndf 1.795e+04 / 75
p0 241.7 ± 0.2003
400
350
300
250
200

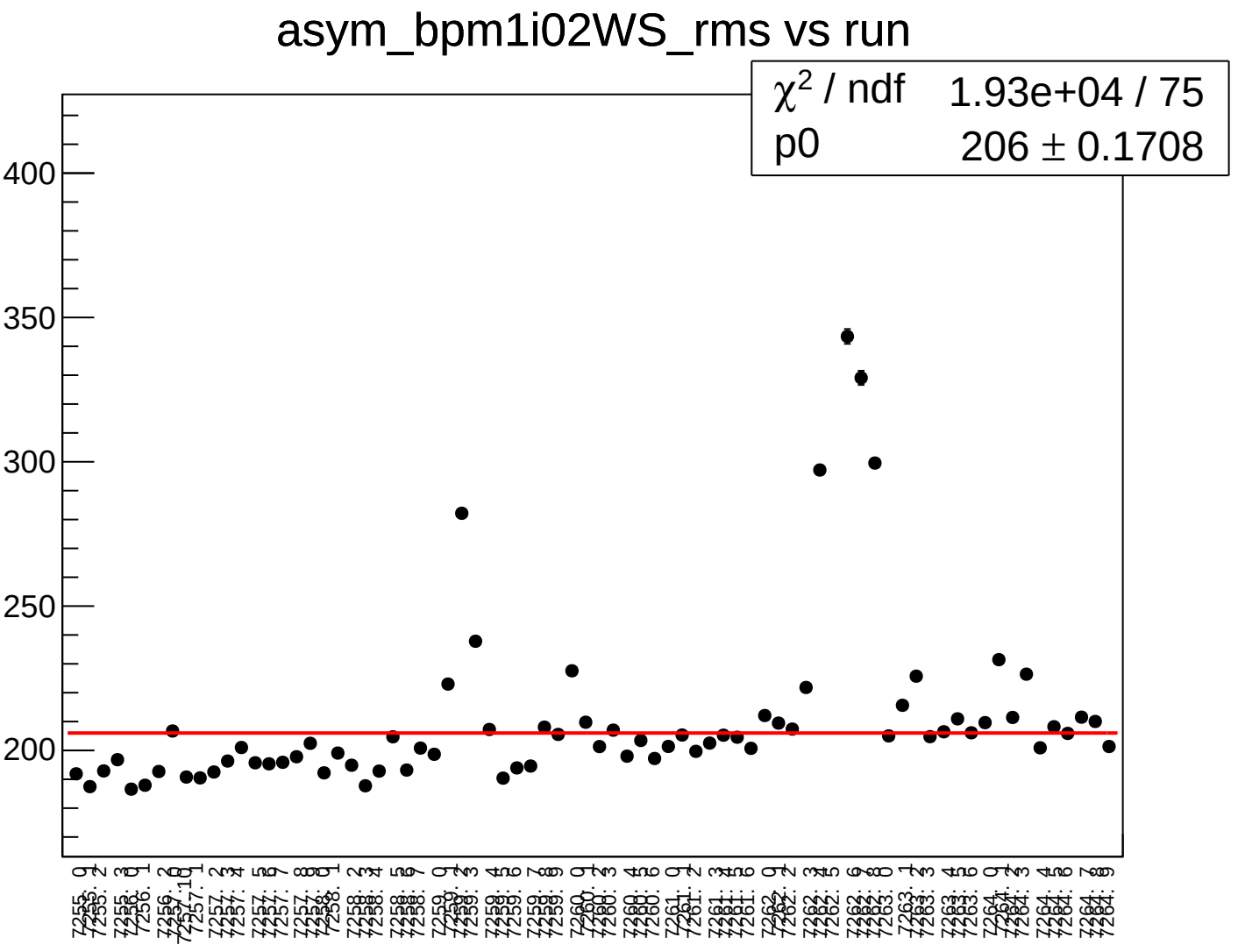

asym_bpm0i07WS_mean vs run
χ² / ndf 32.89 / 75
p0 1477 ± 311.5
pull
Entries 76
Mean 304.7
Std Dev 274.5

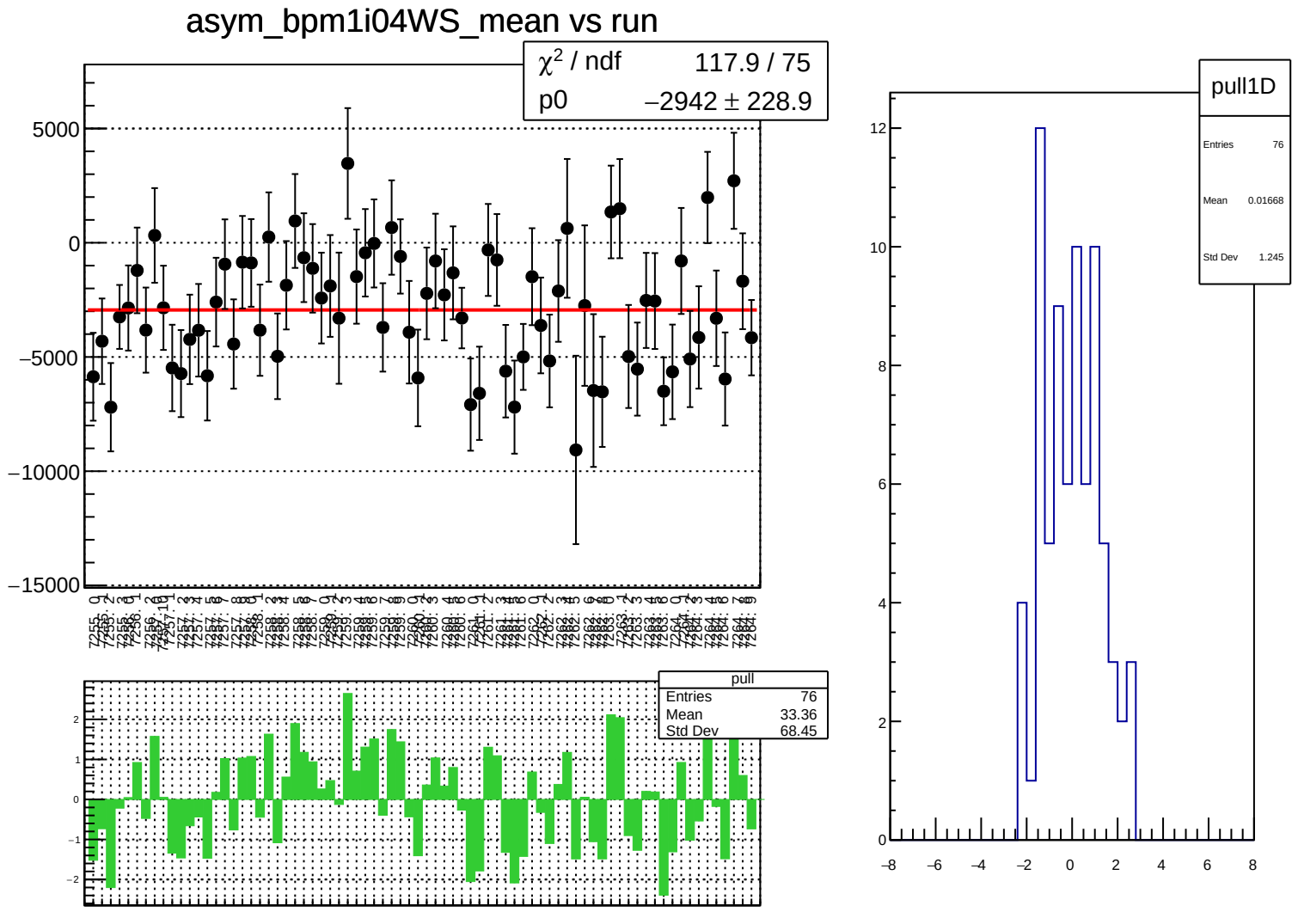

pull1D
Entries 76
Mean −0.01266
Std Dev 0.6577

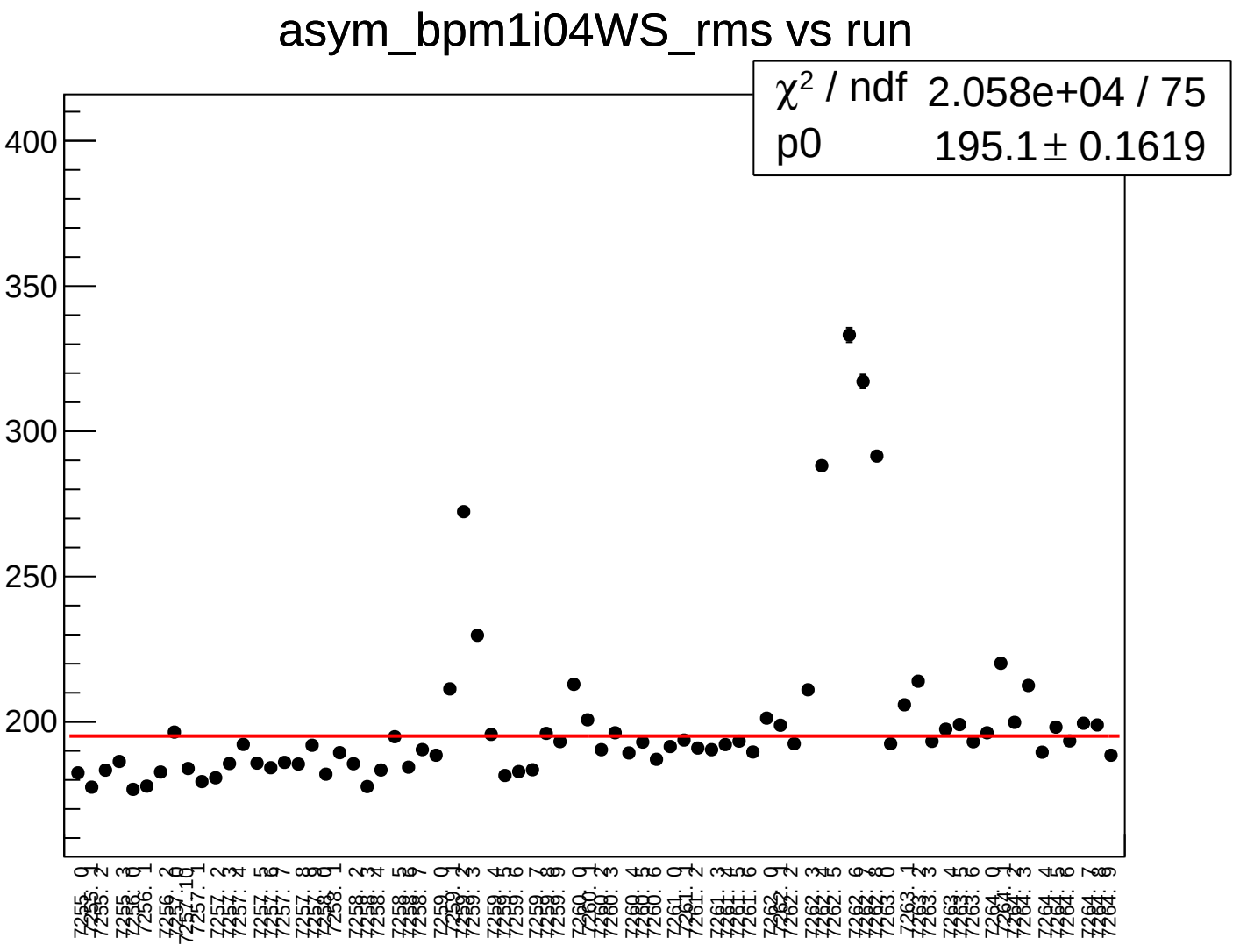

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1.563e+04 / 75
p0 265.9 ± 0.2202
420
400
380
360
340
320
300
280
260
240
220

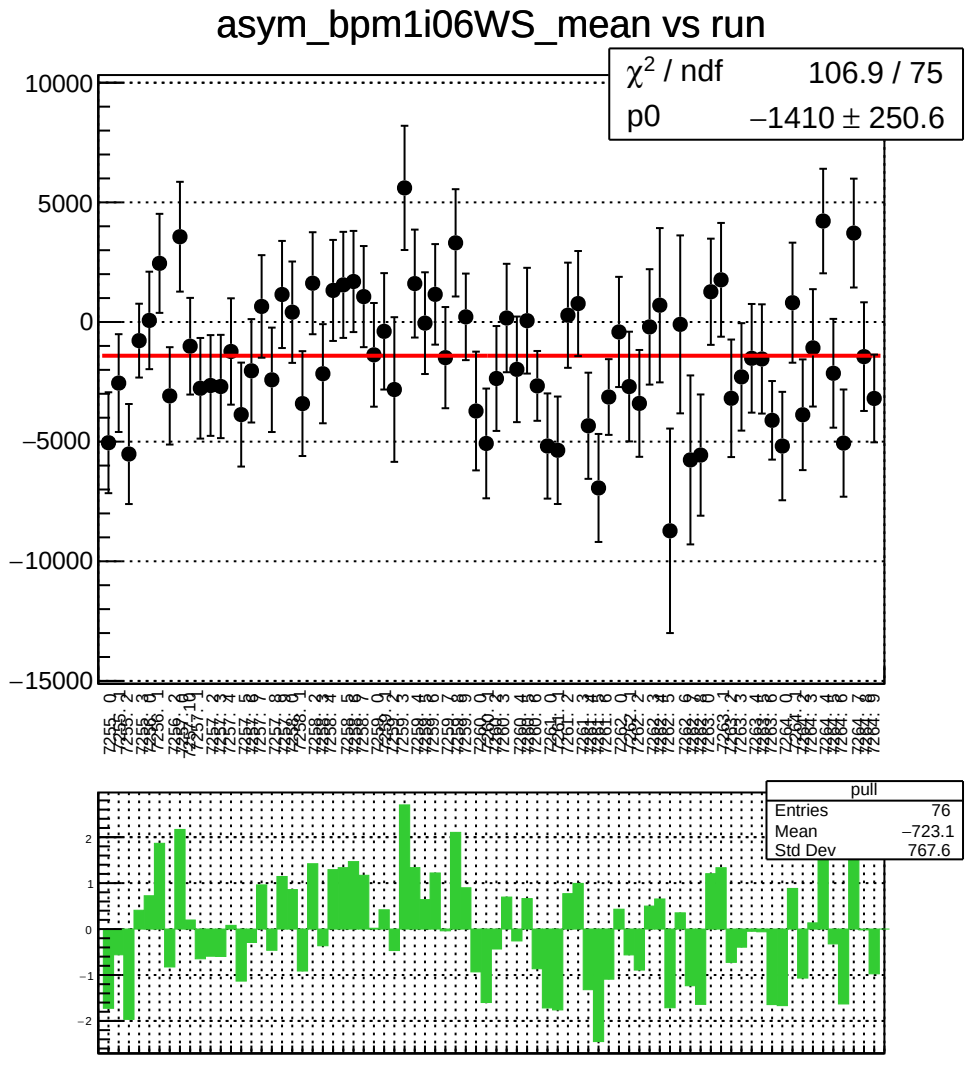

asym_bpm1i02WS_mean vs run
χ² / ndf 116 / 75
p0 −3105 ± 241.6
5000
0
−5000
−10000
−15000
pull
Entries 76
Mean −77.75
Std Dev 193
3
2
1
0
−1
−2
−3

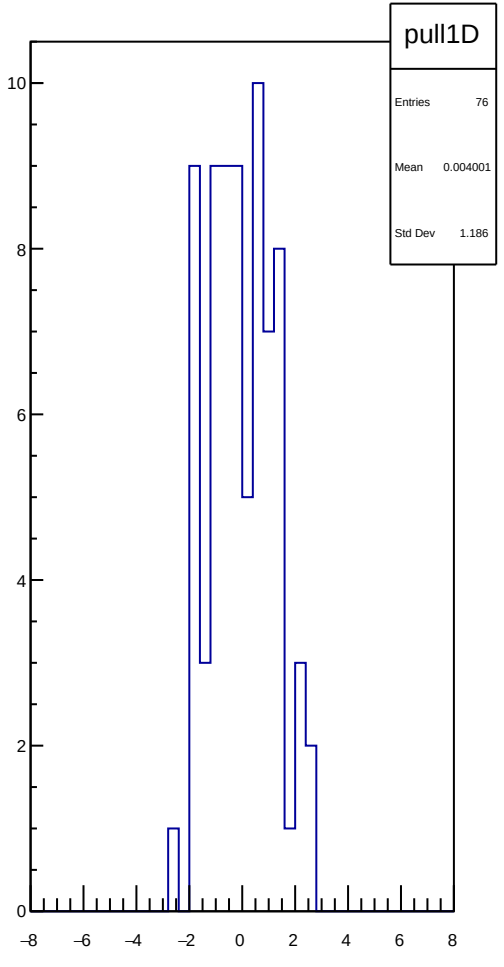

pull1D
Entries 76
Mean 0.003829
Std Dev 1.236
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

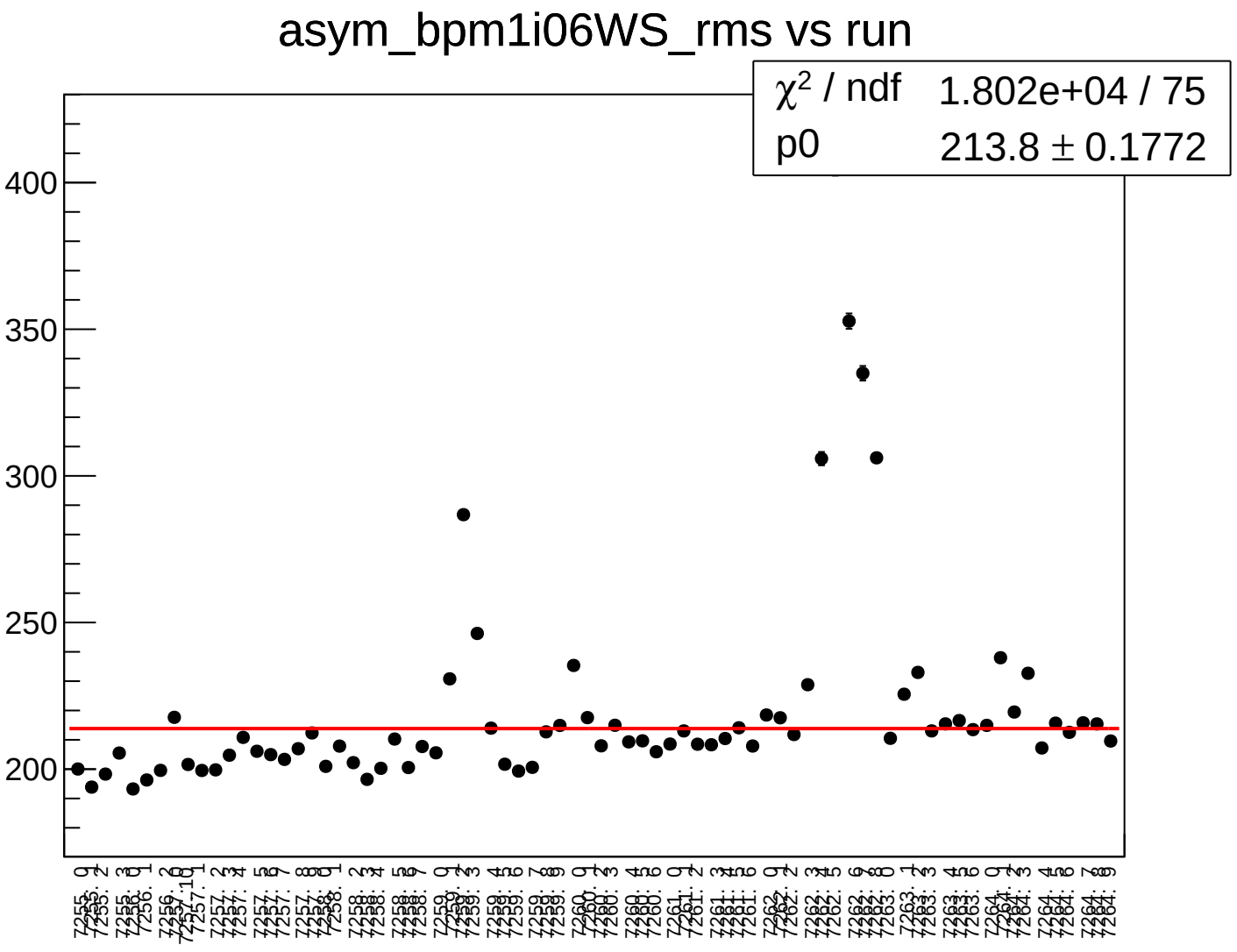

asym_bpm1i02WS_rms vs run
χ² / ndf 1.93e+04 / 75
p0 206 ± 0.1708
400
350
300
250
200

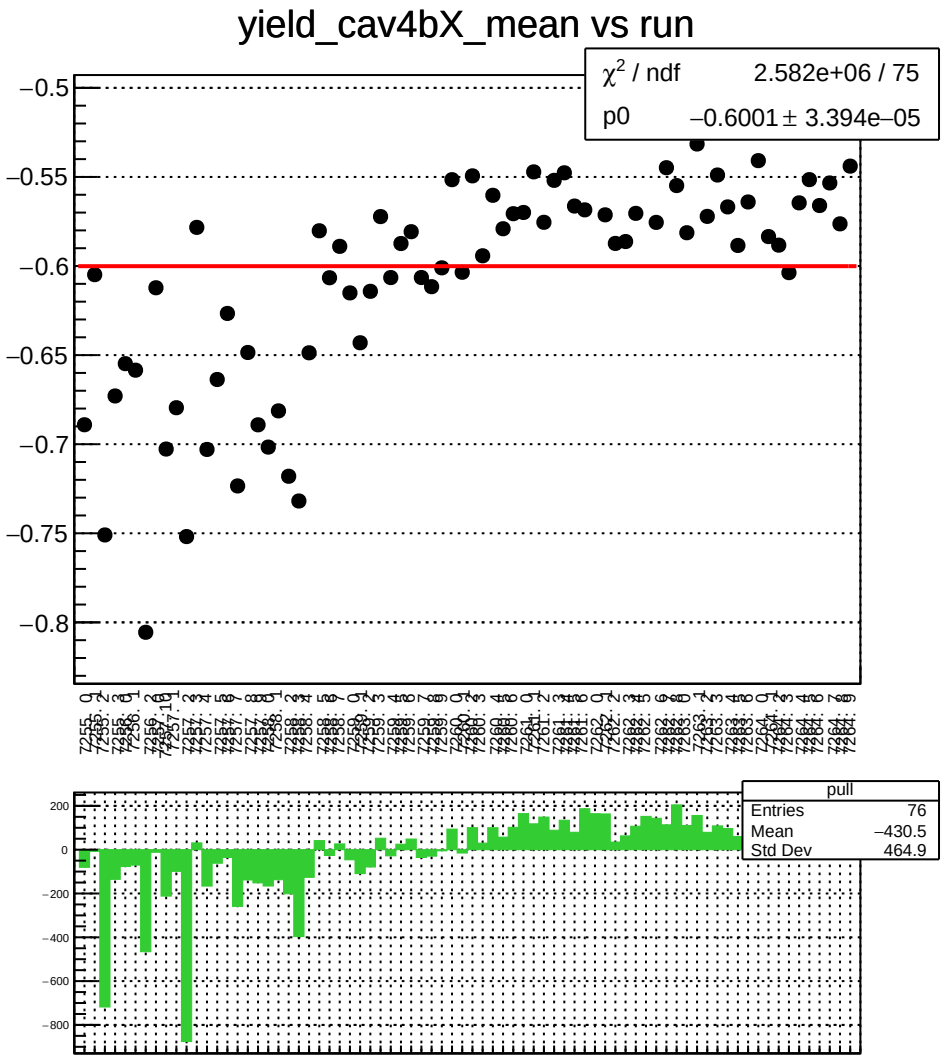

asym_bpm1i04WS_mean vs run
χ² / ndf 117.9 / 75
p0 −2942 ± 228.9
5000
0
−5000
−10000
−15000
pull
Entries 76
Mean 33.36
Std Dev 68.45
2
1
0
−1
−2
pull1D
Entries 76
Mean 0.01668
Std Dev 1.245
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

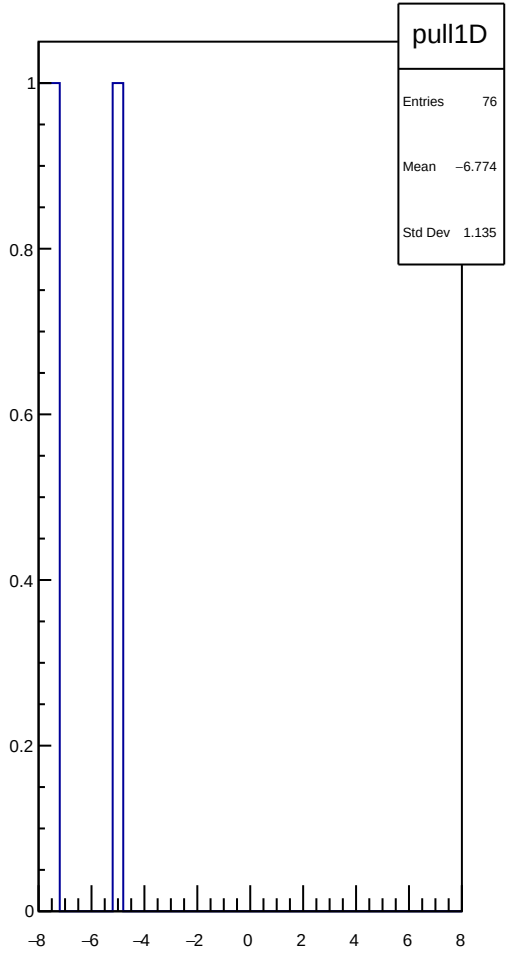

asym_bpm1i04WS_rms vs run
χ² / ndf 2.058e+04 / 75
p0 195.1 ± 0.1619
400
350
300
250
200

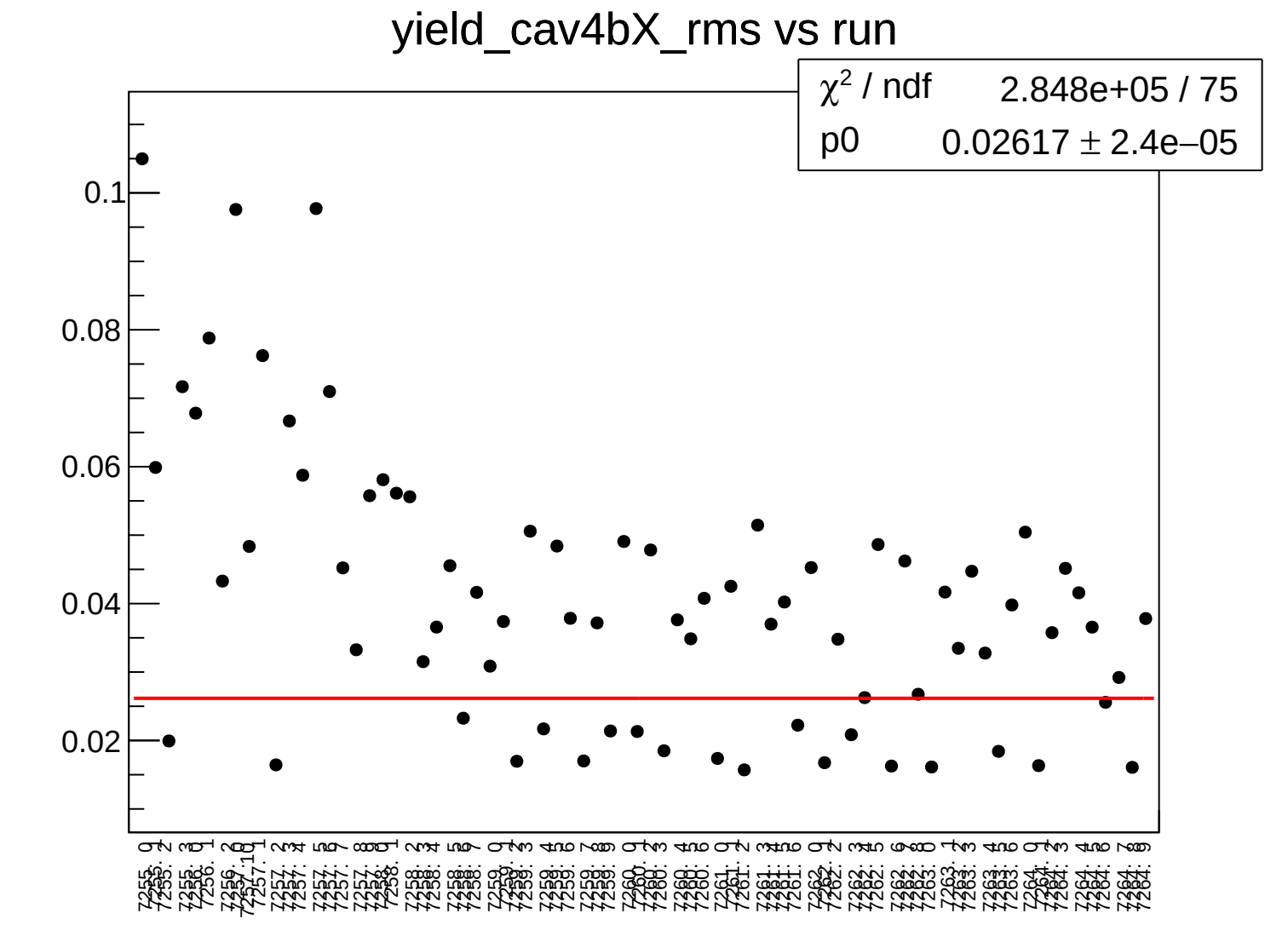

asym_bpm1i06WS_mean vs run
χ² / ndf 106.9 / 75
p0 −1410 ± 250.6
pull
Entries 76
Mean −723.1
Std Dev 767.6

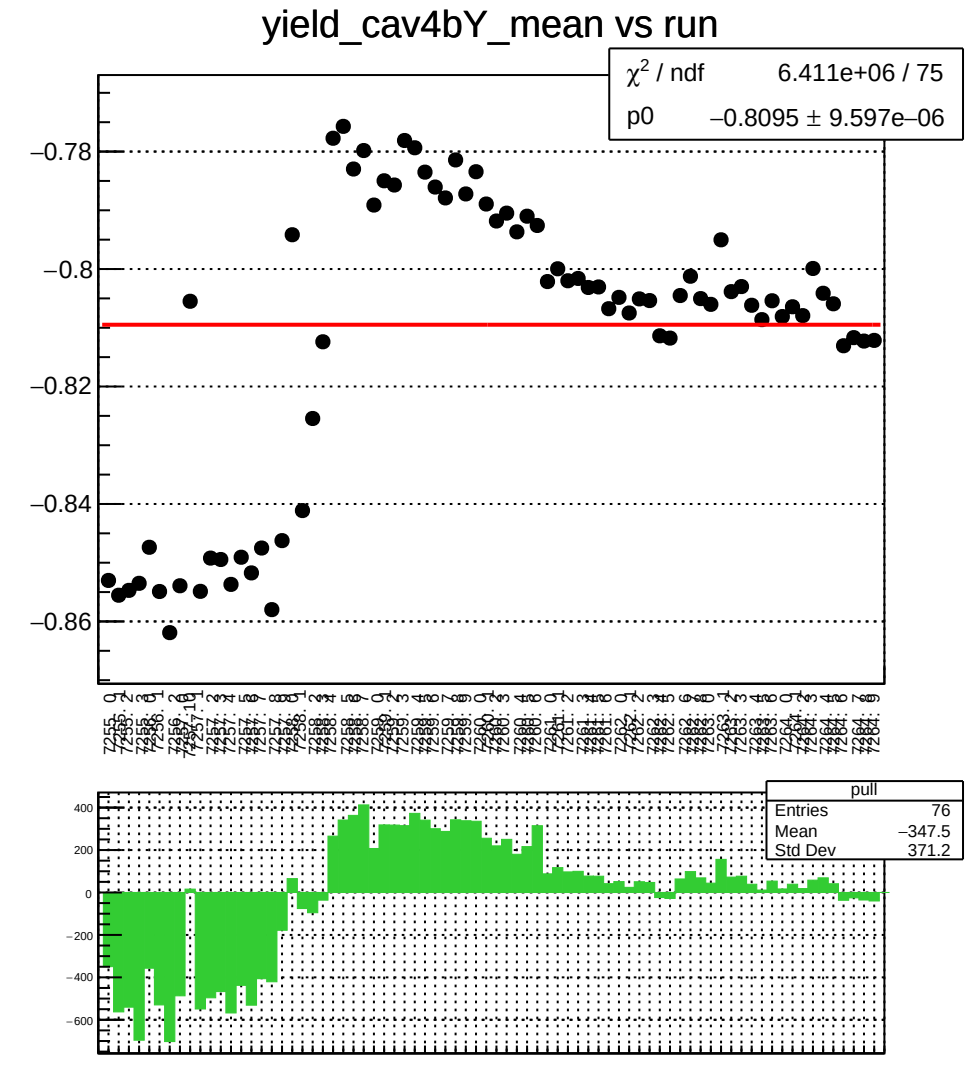

pull1D
Entries 76
Mean 0.004001
Std Dev 1.186

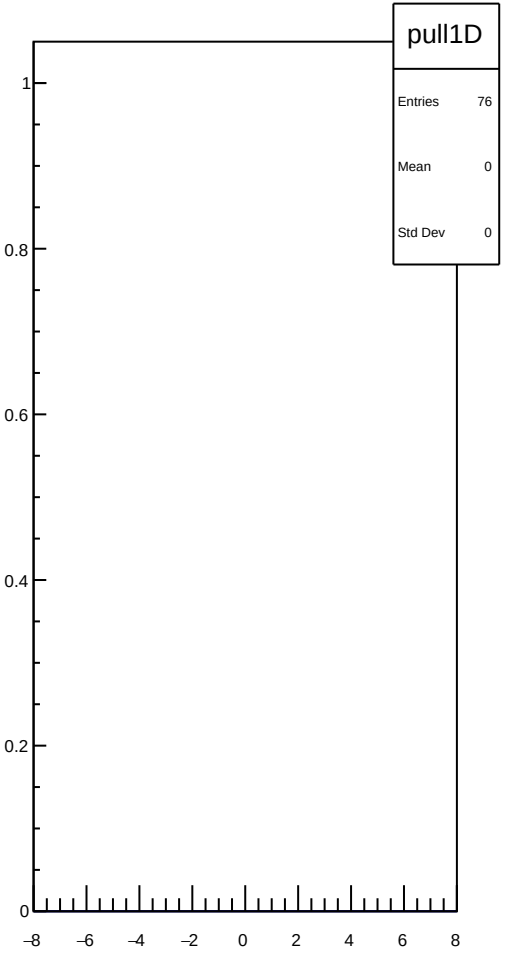

asym_bpm1i06WS_rms vs run
χ² / ndf 1.802e+04 / 75
p0 213.8 ± 0.1772
400
350
300
250
200

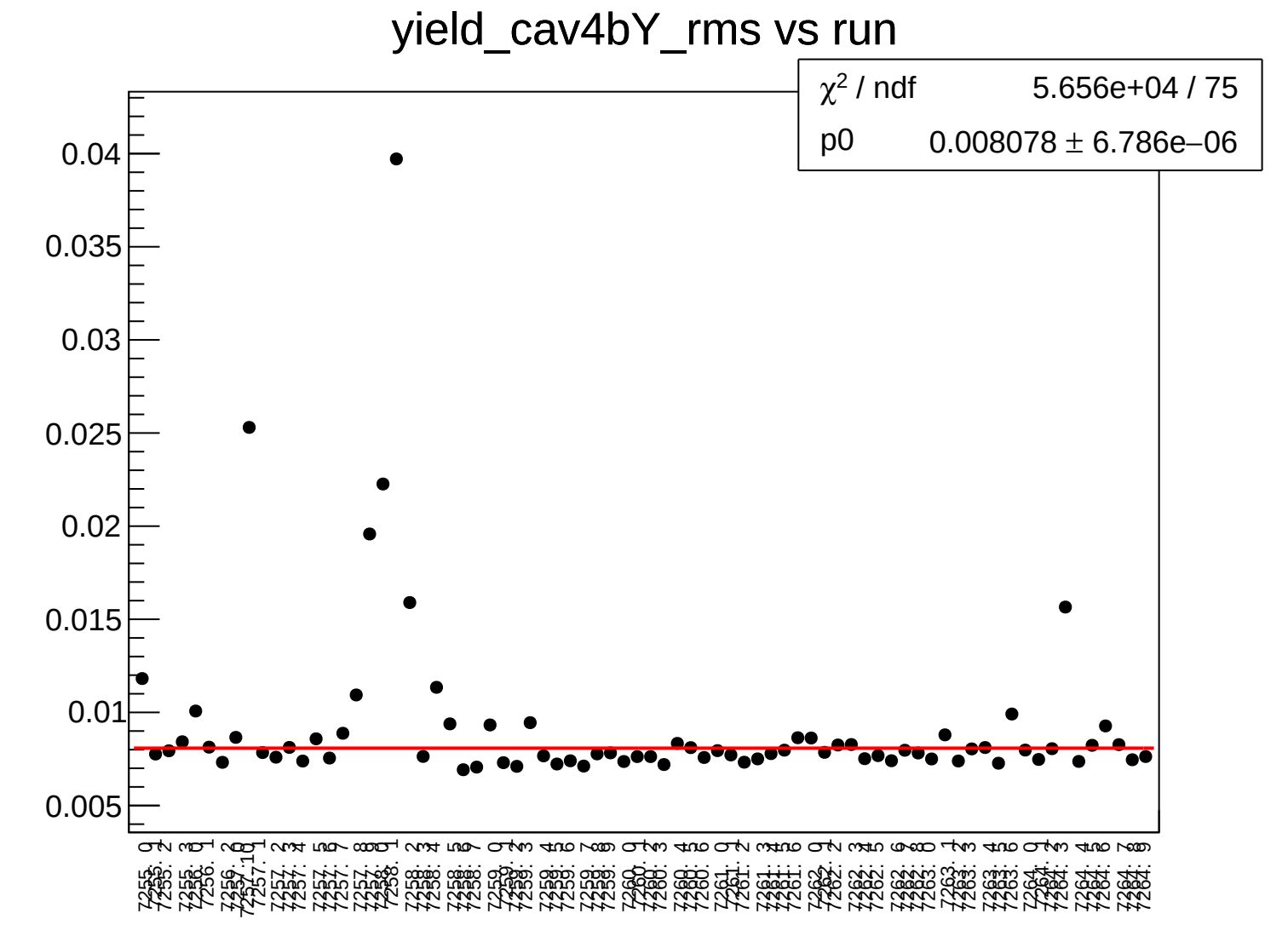

yield_cav4bX_mean vs run
χ² / ndf 2.582e+06 / 75
p0 −0.6001 ± 3.394e−05
pull
Entries 76
Mean −430.5
Std Dev 464.9

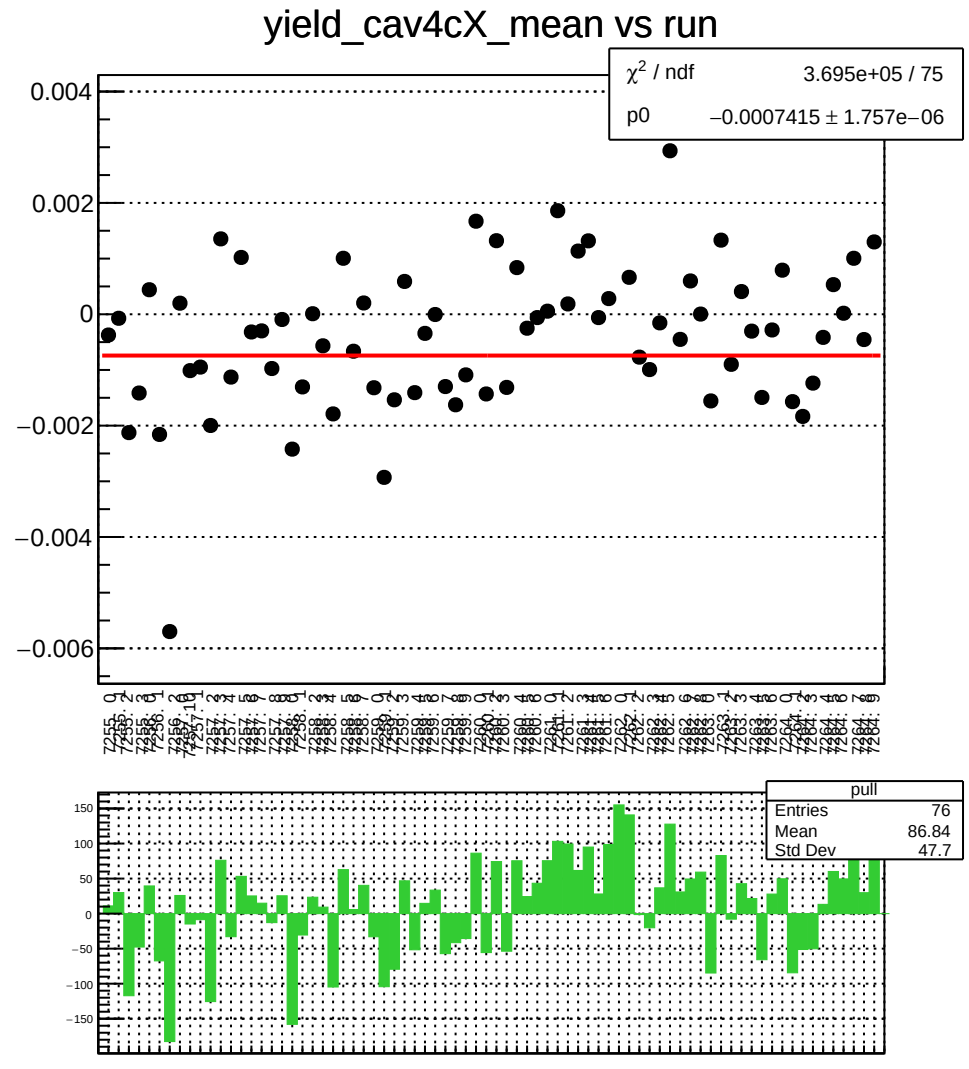

pull1D
Entries 76
Mean −6.774
Std Dev 1.135

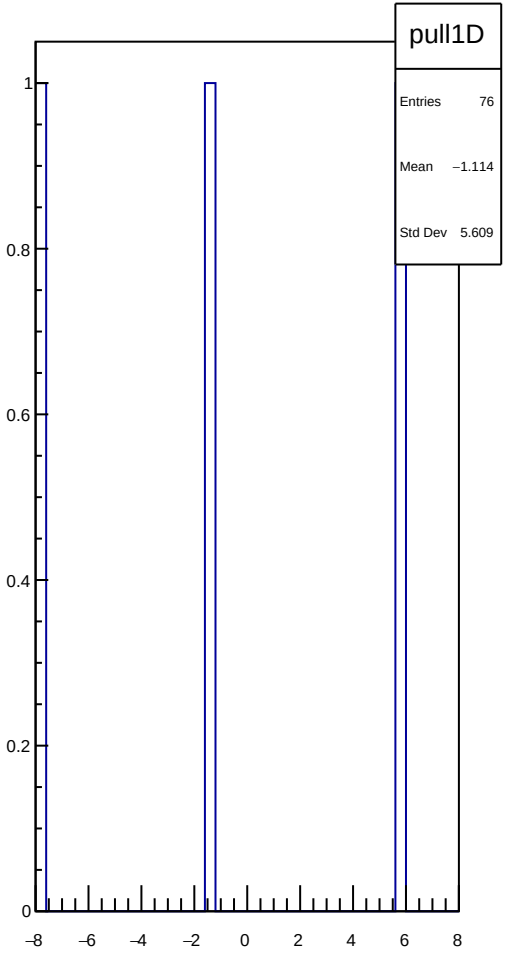

yield_cav4bX_rms vs run
χ² / ndf 2.848e+05 / 75
p0 0.02617 ± 2.4e−05
0.1
0.08
0.06
0.04
0.02

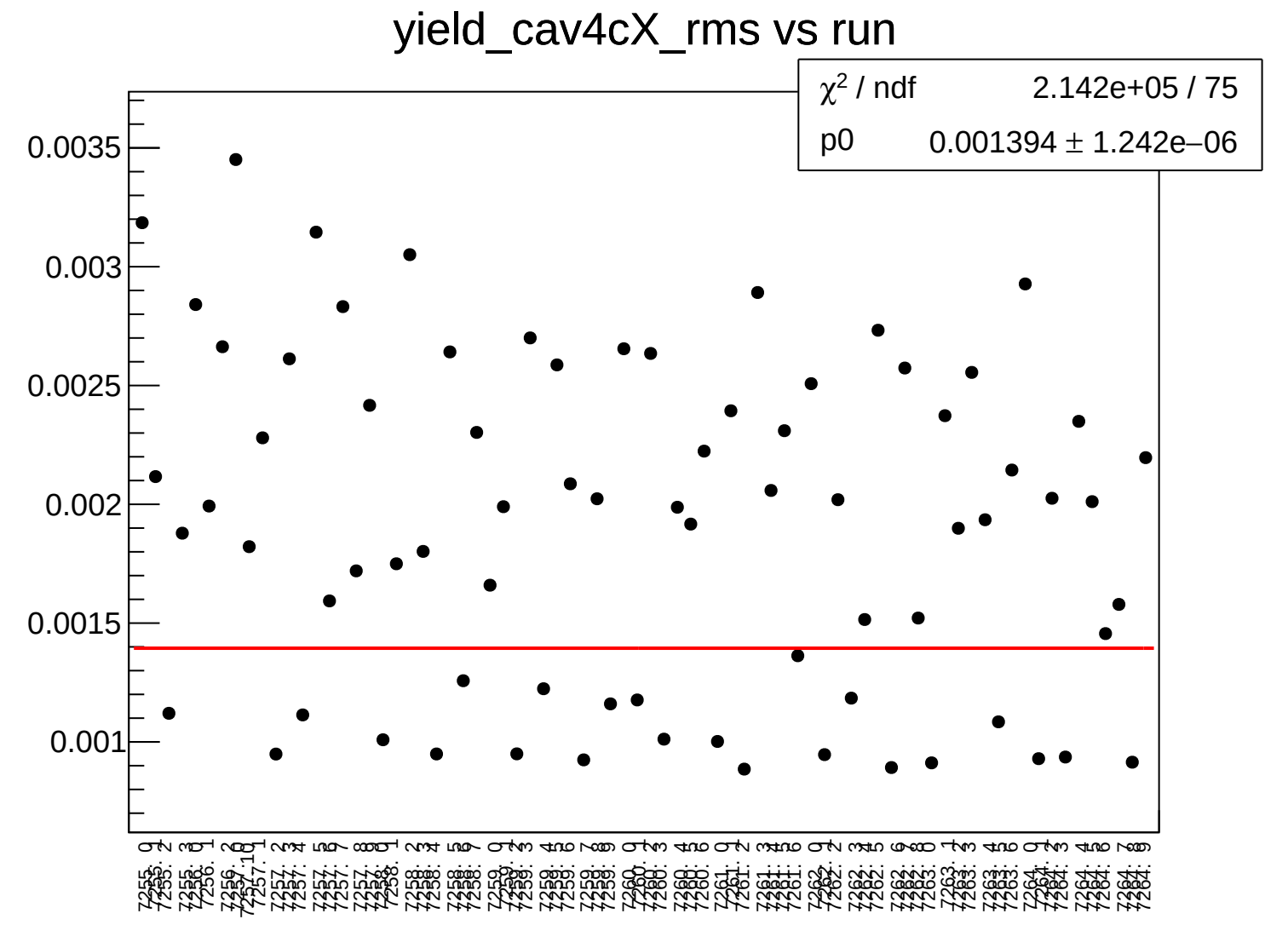

yield_cav4bY_mean vs run
χ² / ndf 6.411e+06 / 75
p0 −0.8095 ± 9.597e−06
−0.78
−0.8
−0.82
−0.84
−0.86
pull
Entries 76
Mean −347.5
Std Dev 371.2
400
200
0
−200
−400
−600

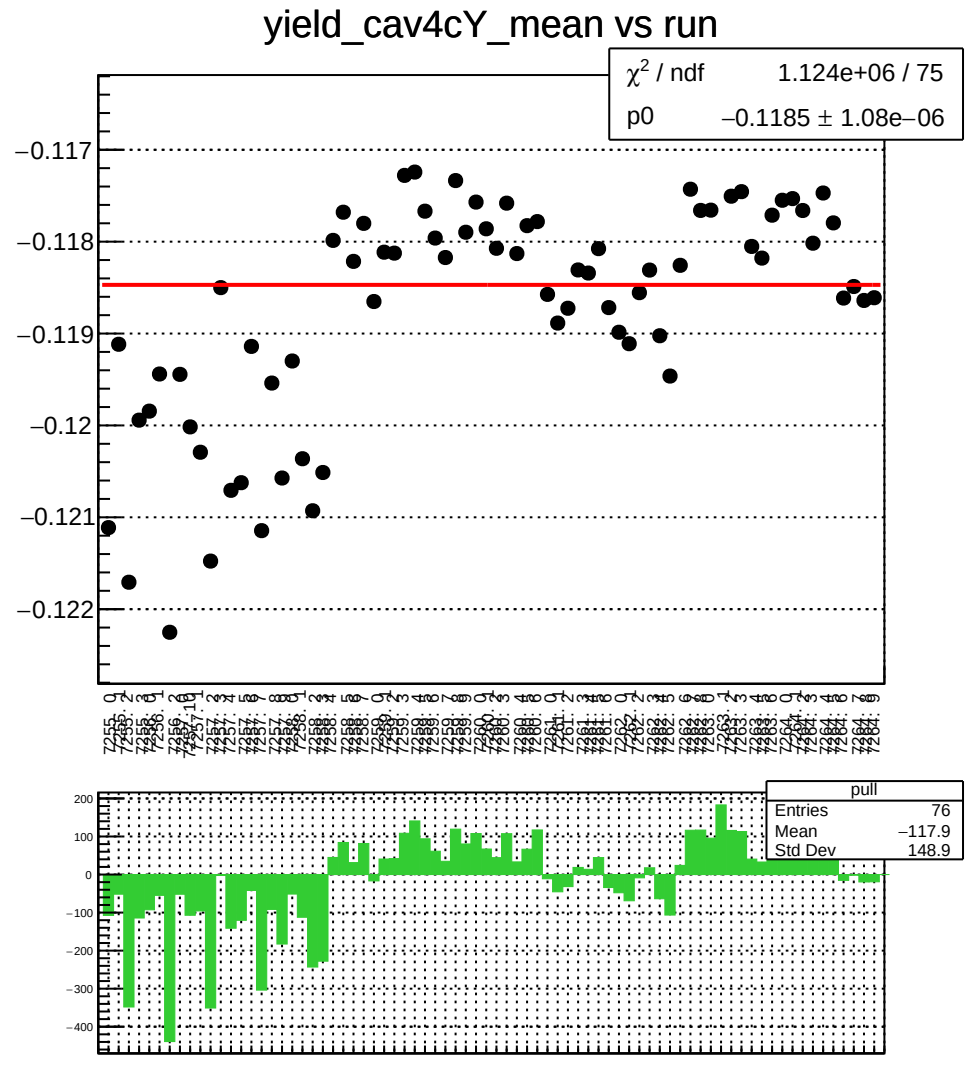

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

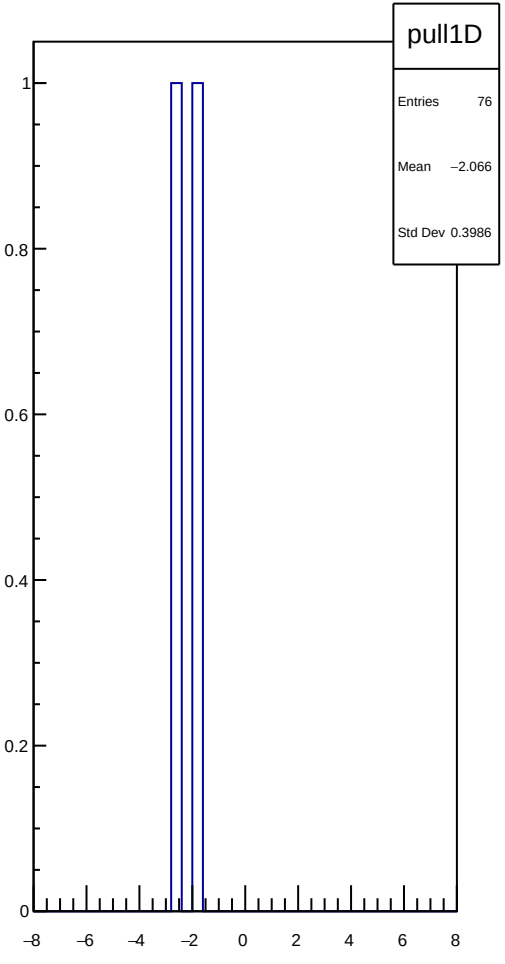

yield_cav4bY_rms vs run
χ² / ndf 5.656e+04 / 75
p0 0.008078 ± 6.786e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

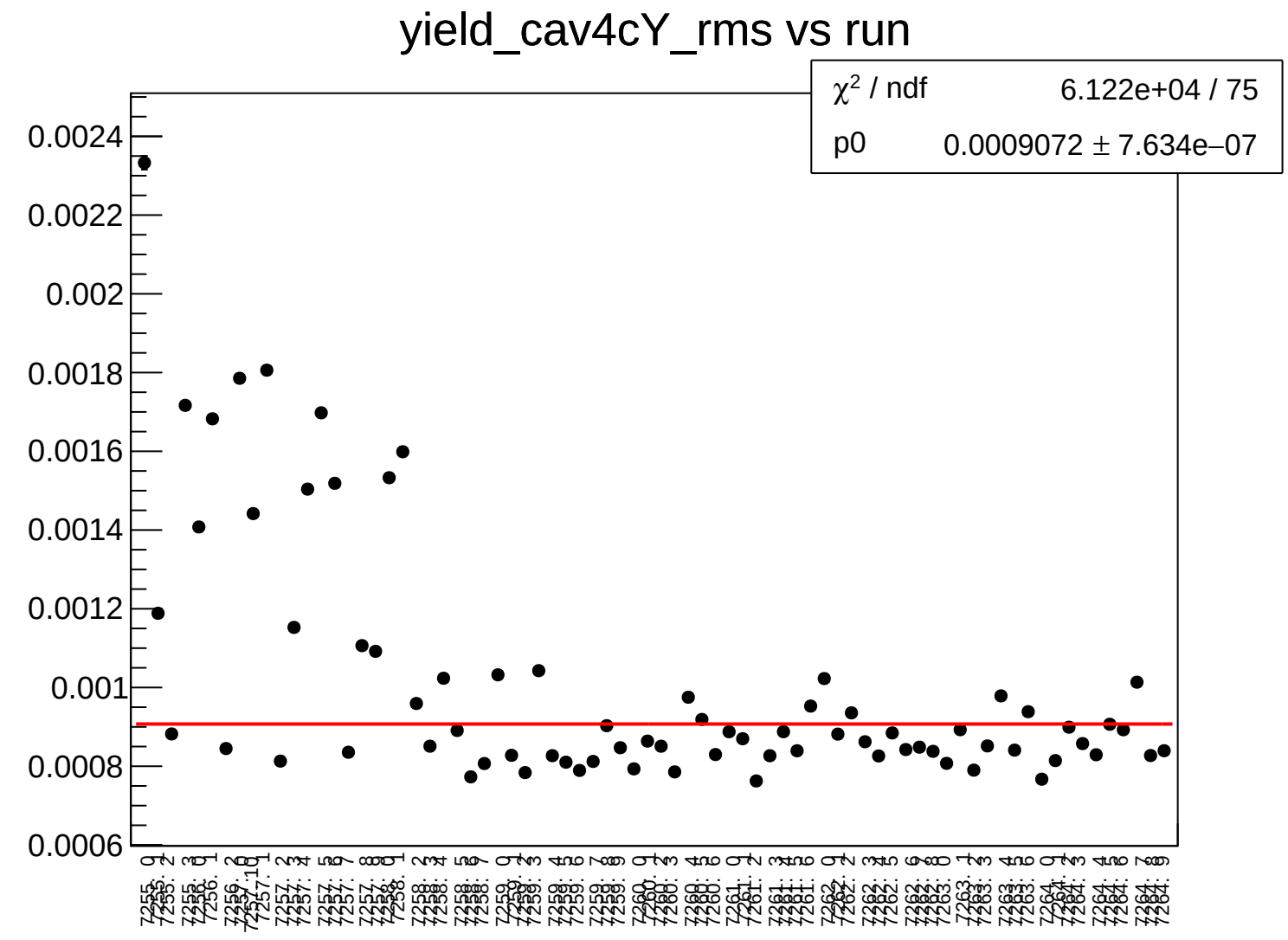

yield_cav4cX_mean vs run
χ² / ndf 3.695e+05 / 75
p0 −0.0007415 ± 1.757e−06
0.004
0.002
0
−0.002
−0.004
−0.006
pull
Entries 76
Mean 86.84
Std Dev 47.7
150
100
50
0
−50
−100
−150

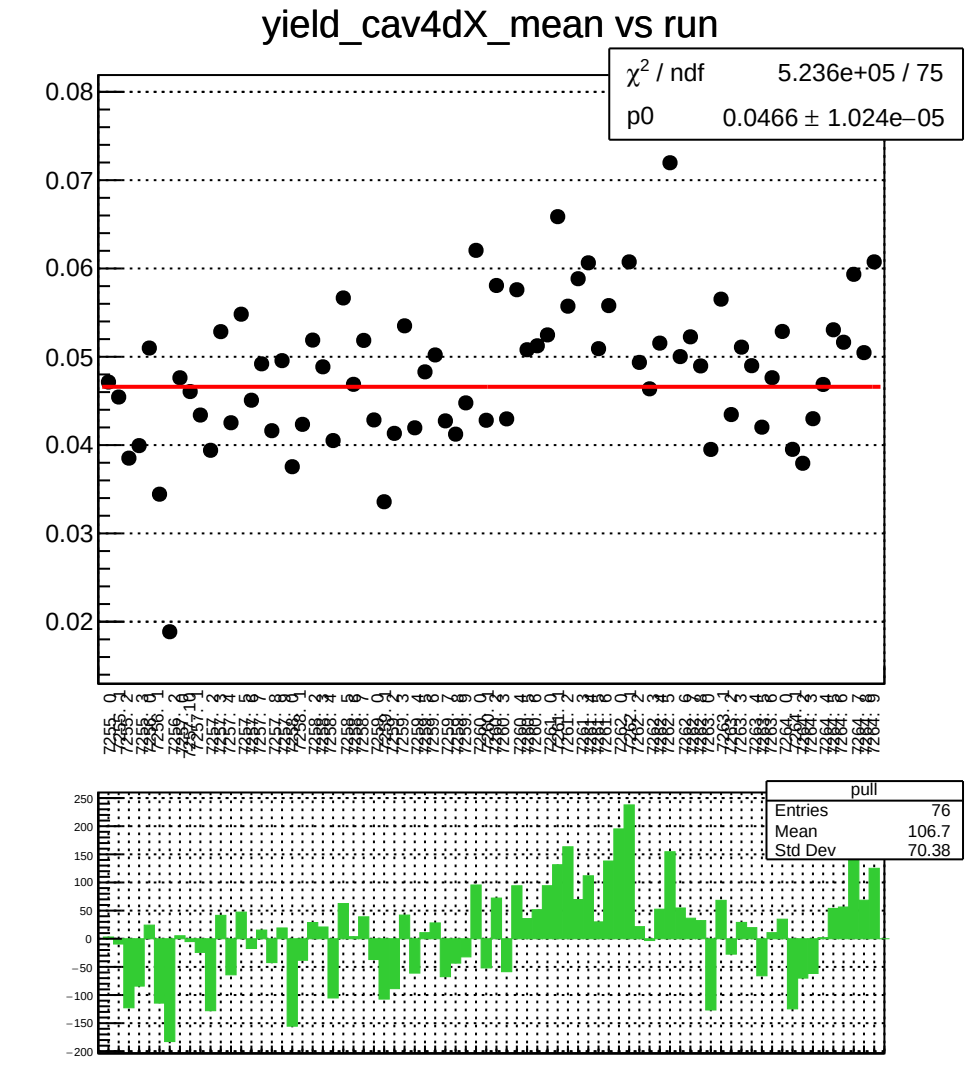

pull1D
Entries 76
Mean −1.114
Std Dev 5.609
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

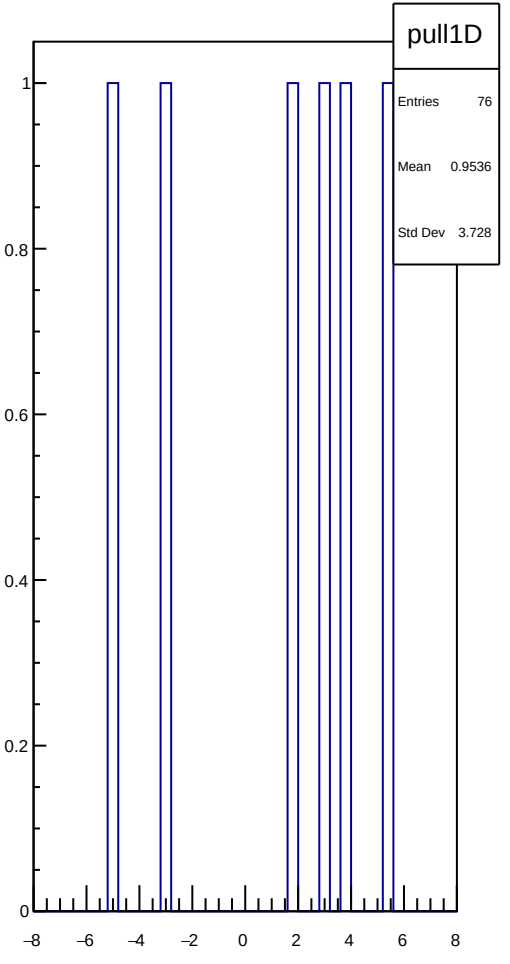

yield_cav4cX_rms vs run
χ² / ndf 2.142e+05 / 75
p0 0.001394 ± 1.242e−06
0.0035
0.003
0.0025
0.002
0.0015
0.001

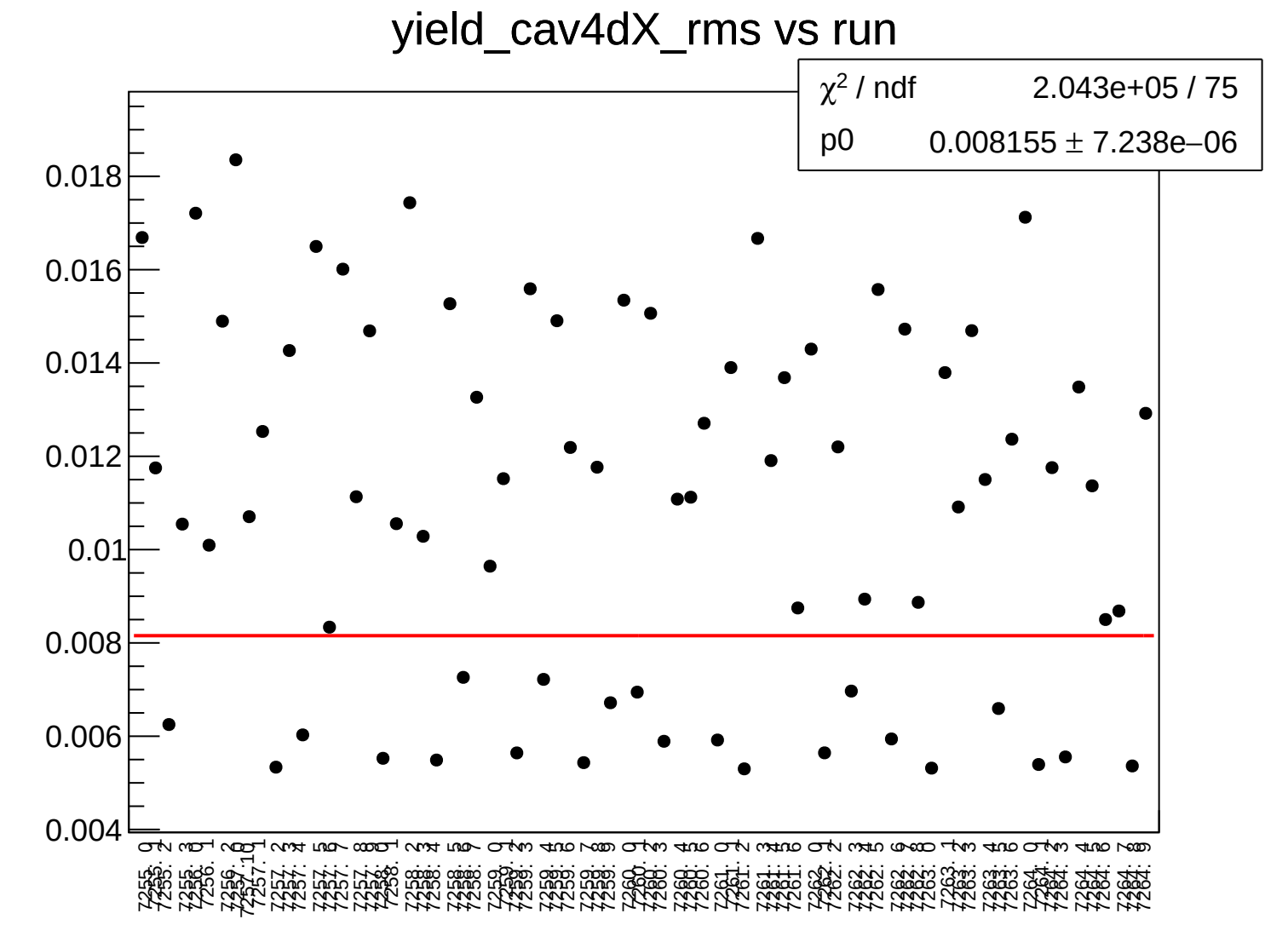

yield_cav4cY_mean vs run
χ² / ndf 1.124e+06 / 75
p0 −0.1185 ± 1.08e−06
−0.117
−0.118
−0.119
−0.12
−0.121
−0.122
pull
Entries 76
Mean −117.9
Std Dev 148.9
200
100
0
−100
−200
−300
−400

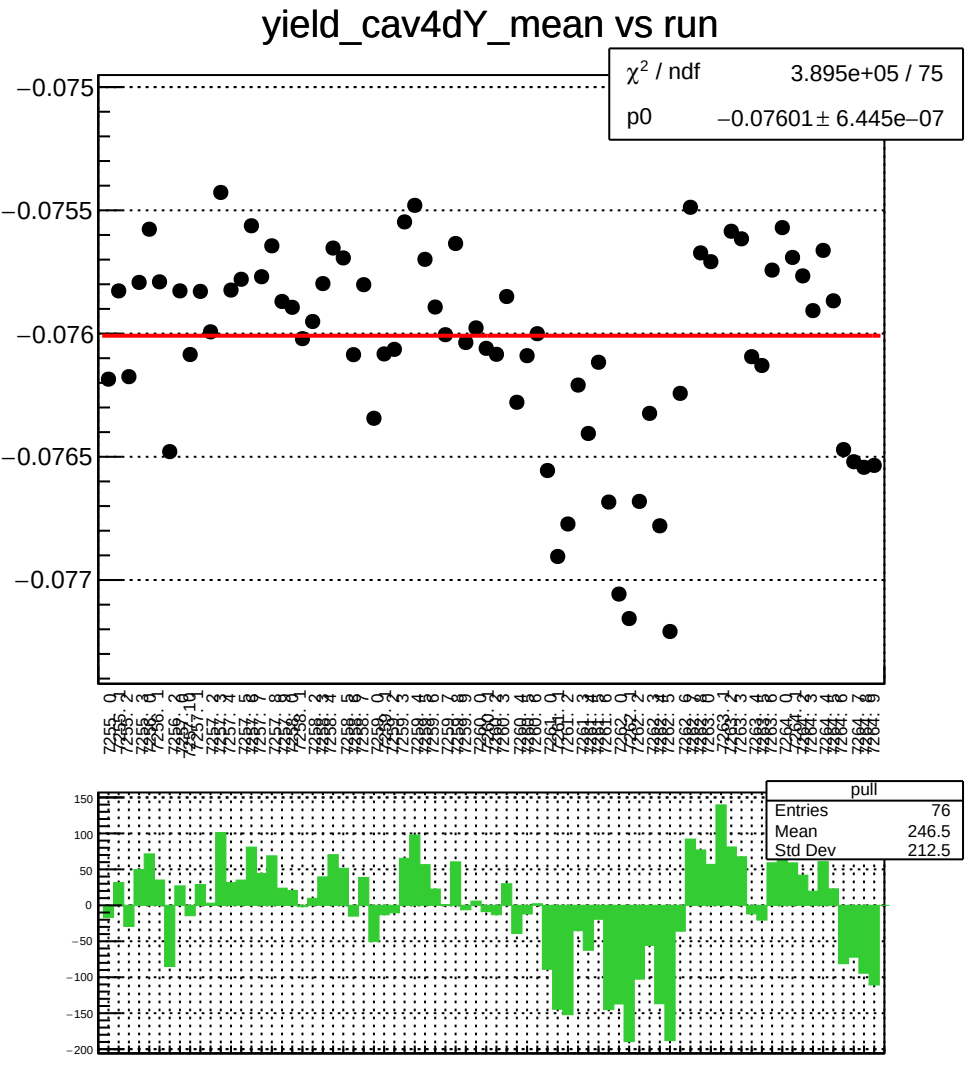

pull1D
Entries 76
Mean −2.066
Std Dev 0.3986
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

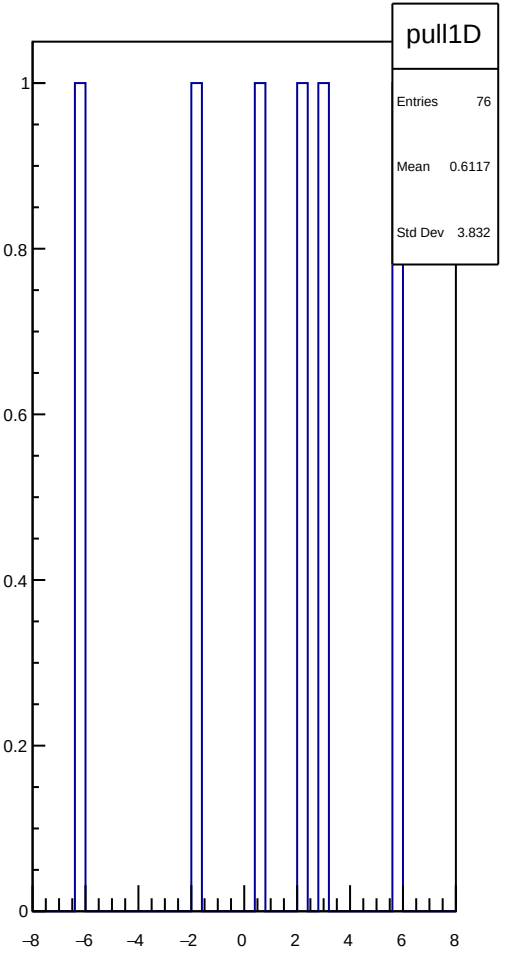

yield_cav4cY_rms vs run
χ² / ndf 6.122e+04 / 75
p0 0.0009072 ± 7.634e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006

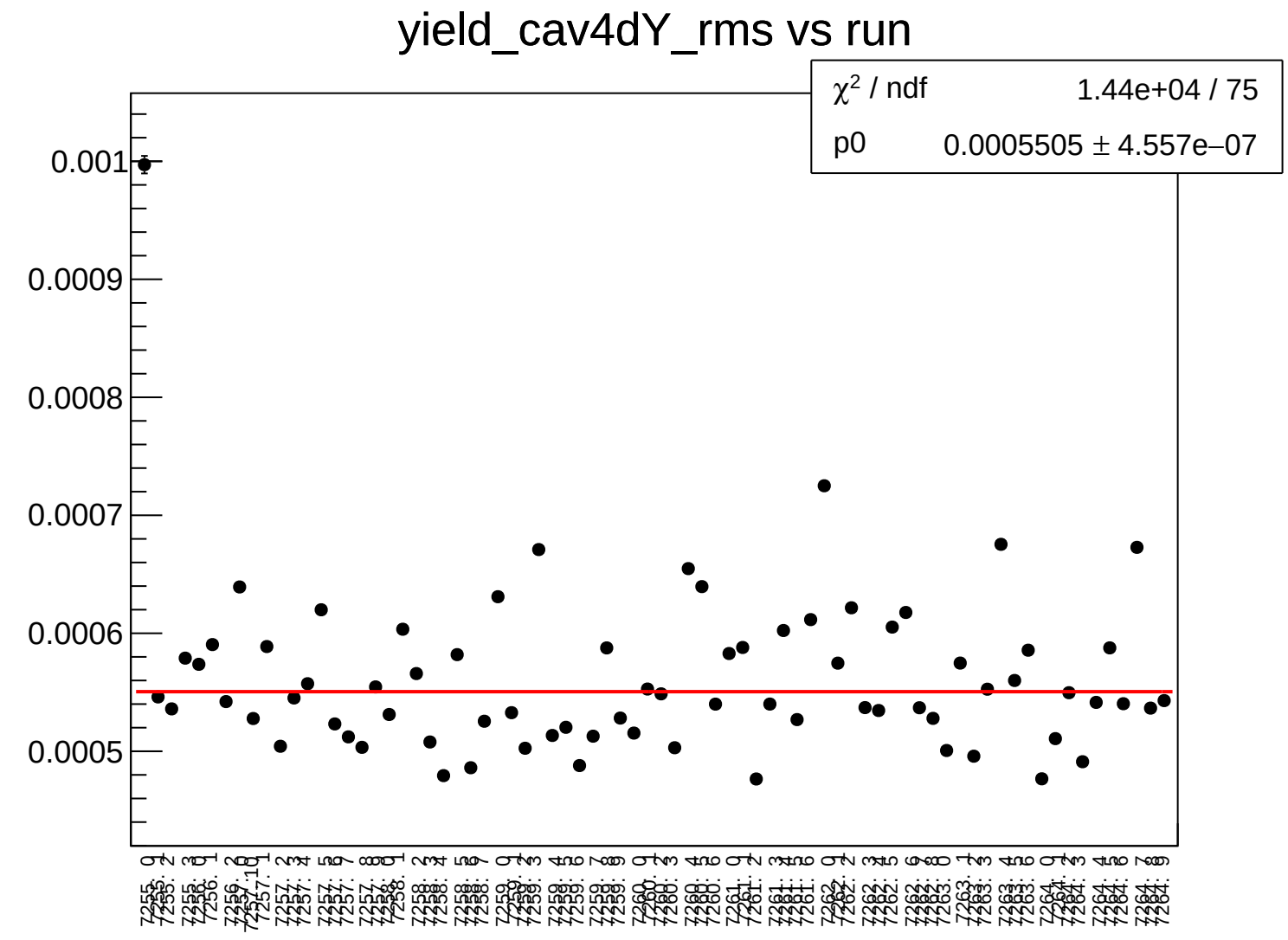

yield_cav4dX_mean vs run
χ² / ndf 5.236e+05 / 75
p0 0.0466 ± 1.024e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 76
Mean 106.7
Std Dev 70.38
250
200
150
100
50
0
−50
−100
−150
−200

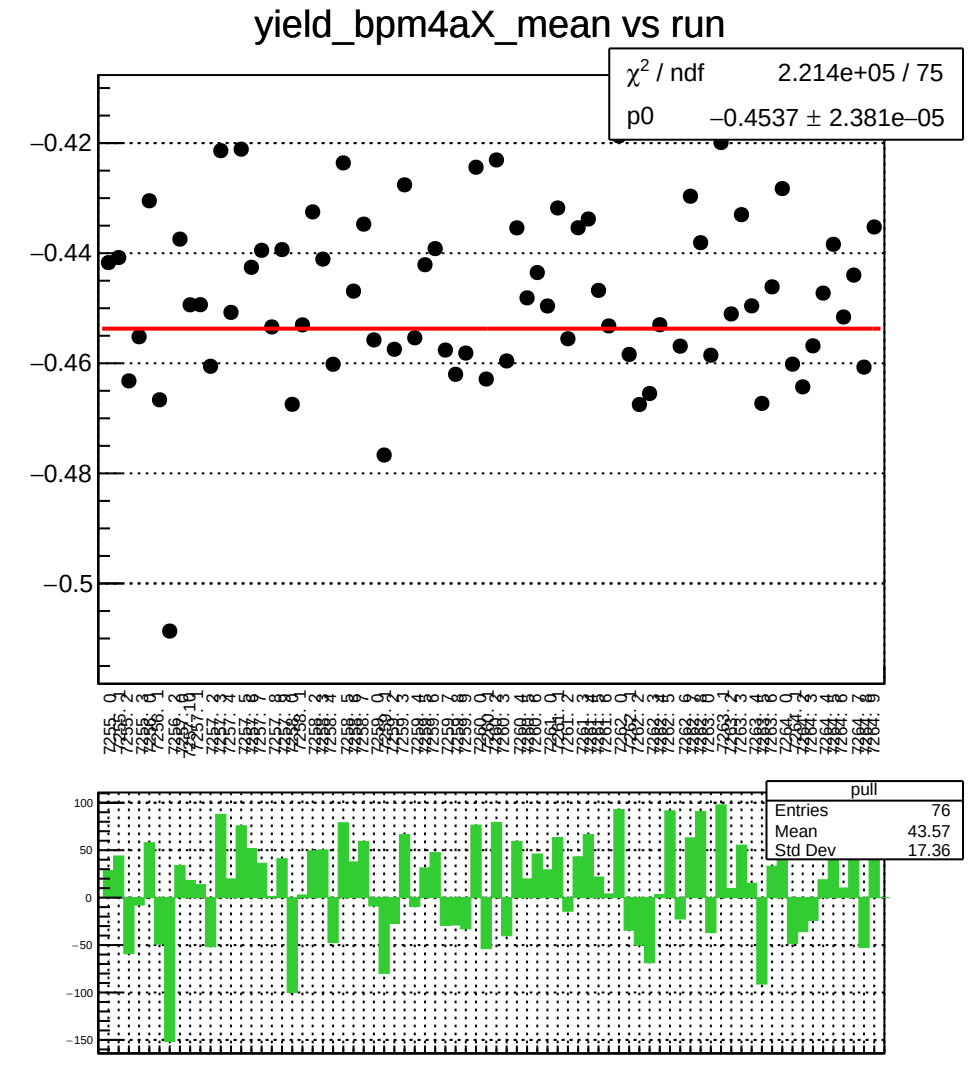

pull1D
Entries 76
Mean 0.9536
Std Dev 3.728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

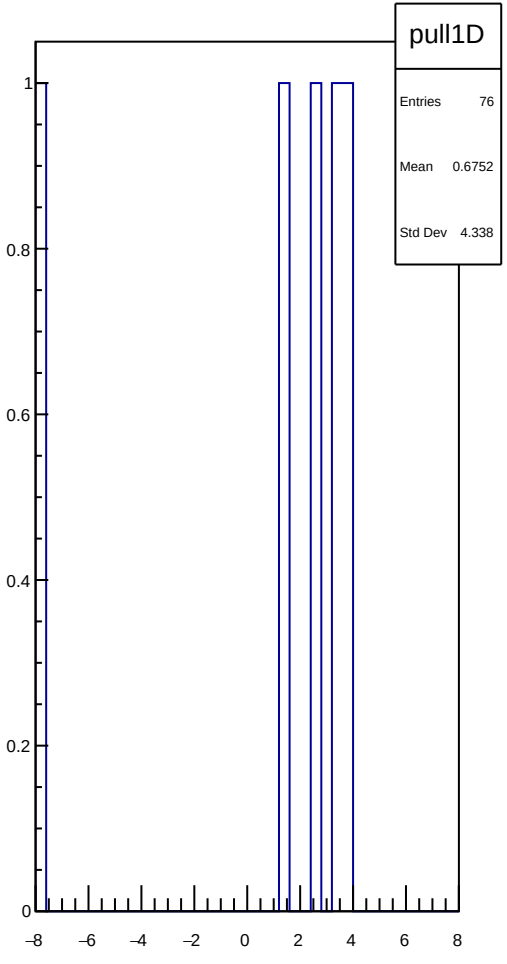

yield_cav4dX_rms vs run
χ² / ndf 2.043e+05 / 75
p0 0.008155 ± 7.238e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

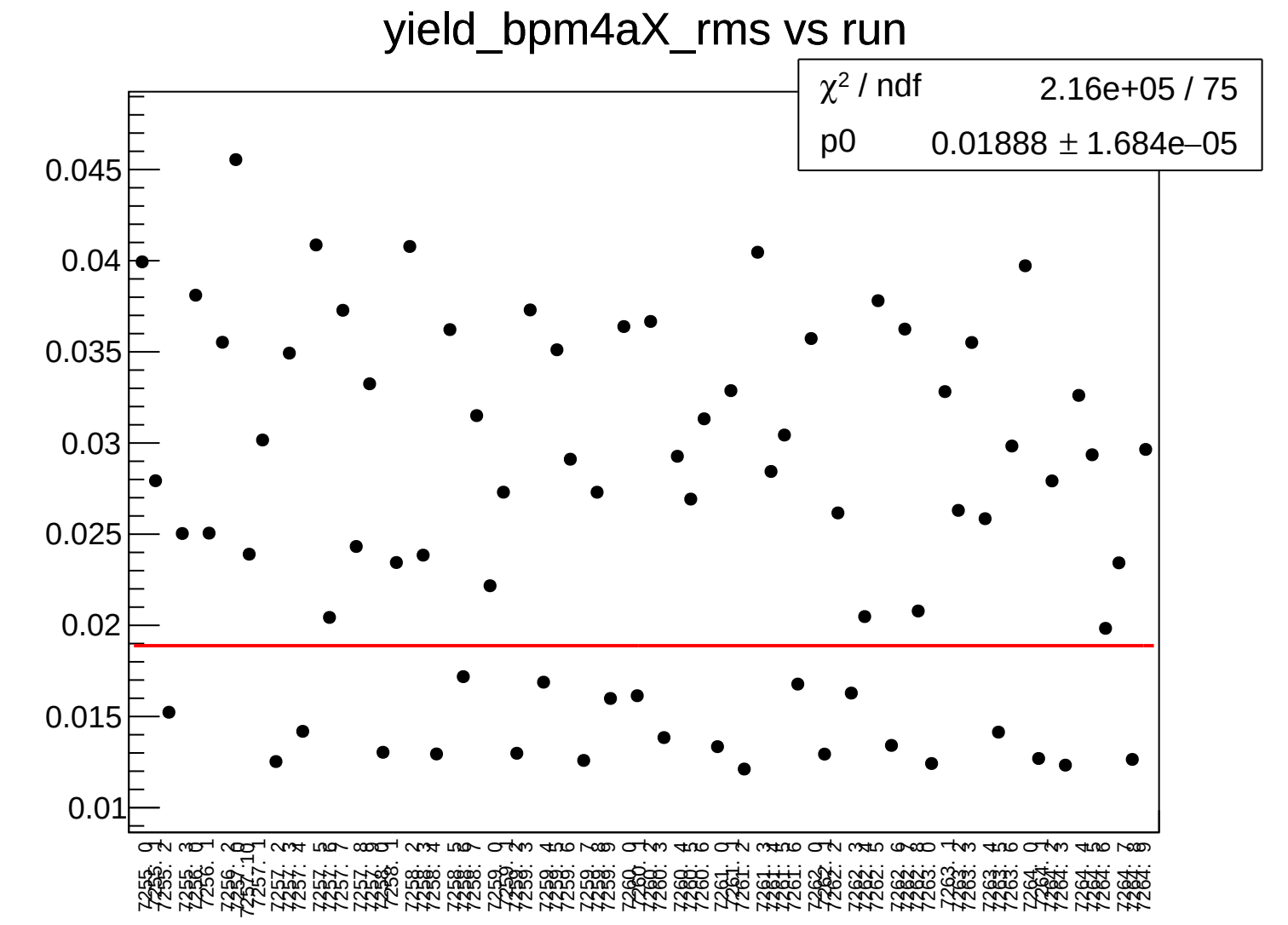

yield_cav4dY_mean vs run
χ² / ndf 3.895e+05 / 75
p0 −0.07601 ± 6.445e−07
−0.075
−0.0755
−0.076
−0.0765
−0.077
pull
Entries 76
Mean 246.5
Std Dev 212.5
150
100
50
0
−50
−100
−150
−200

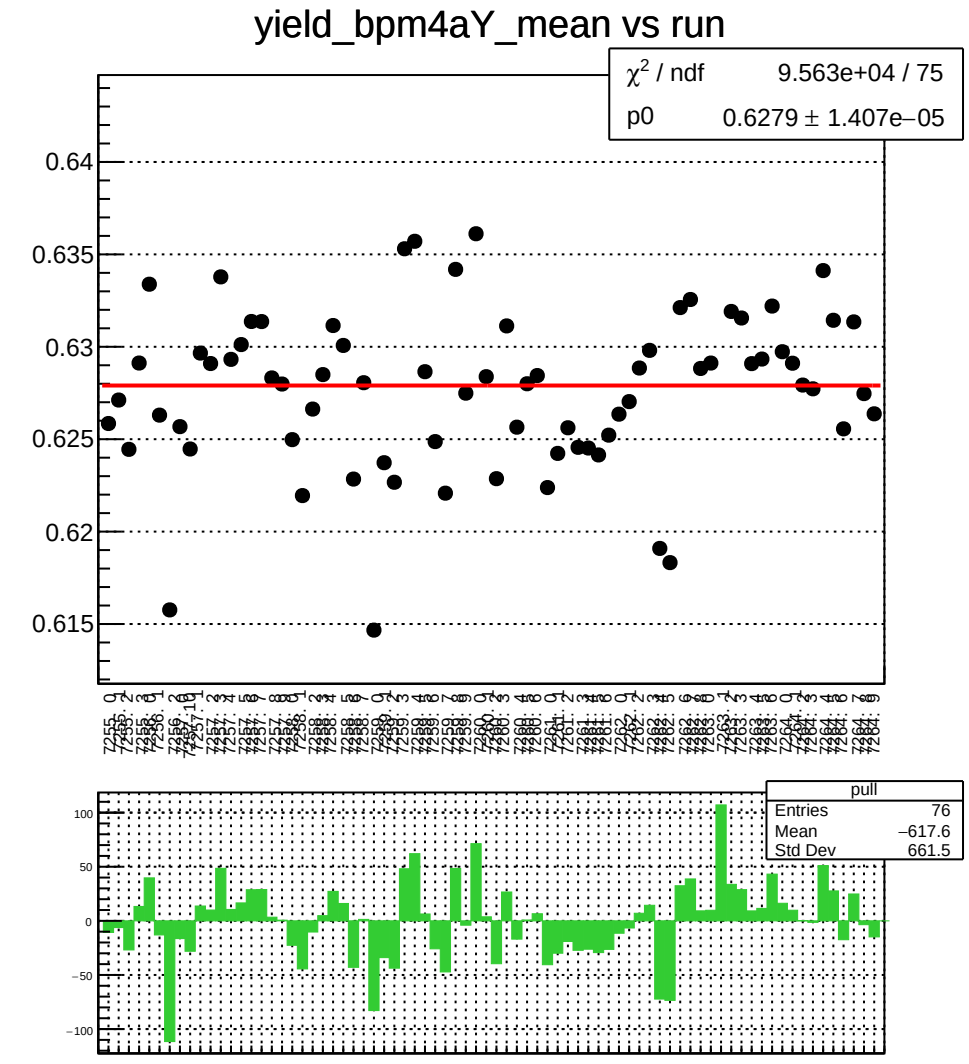

pull1D
Entries 76
Mean 0.6117
Std Dev 3.832
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

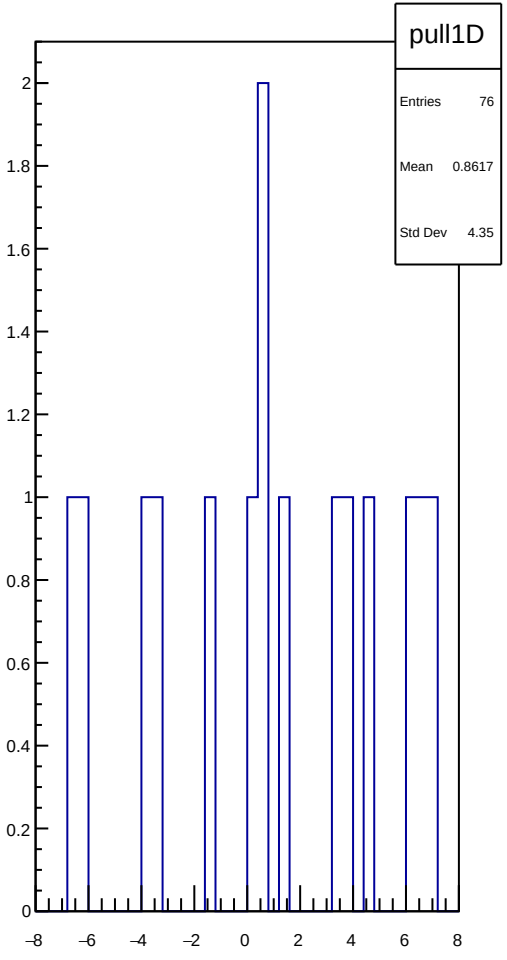

yield_cav4dY_rms vs run
χ² / ndf 1.44e+04 / 75
p0 0.0005505 ± 4.557e−07
0.001
0.0009
0.0008
0.0007
0.0006
0.0005

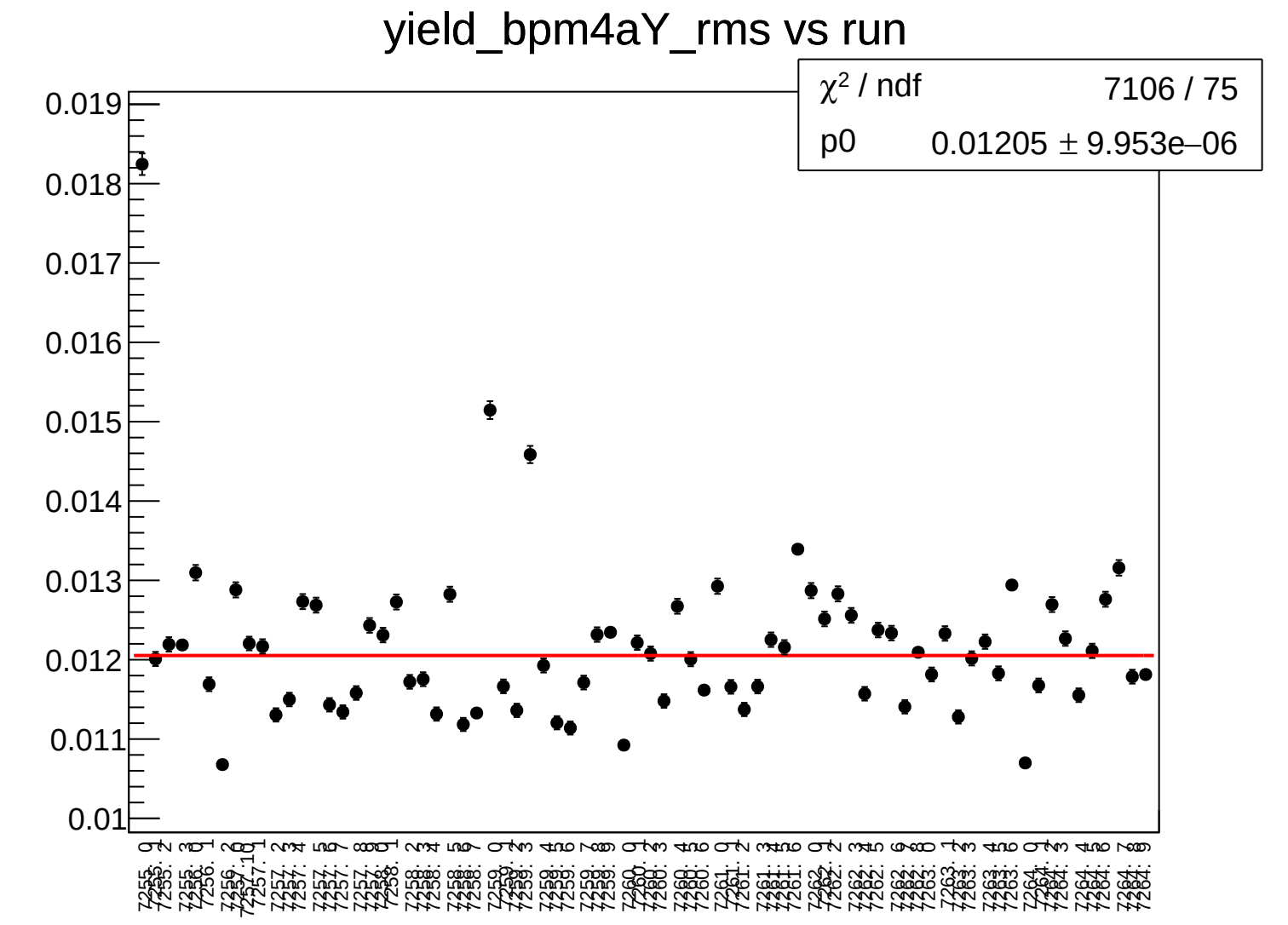

yield_bpm4aX_mean vs run
χ² / ndf 2.214e+05 / 75
p0 −0.4537 ± 2.381e−05
−0.42
−0.44
−0.46
−0.48
−0.5
pull
Entries 76
Mean 43.57
Std Dev 17.36
100
50
0
−50
−100
−150

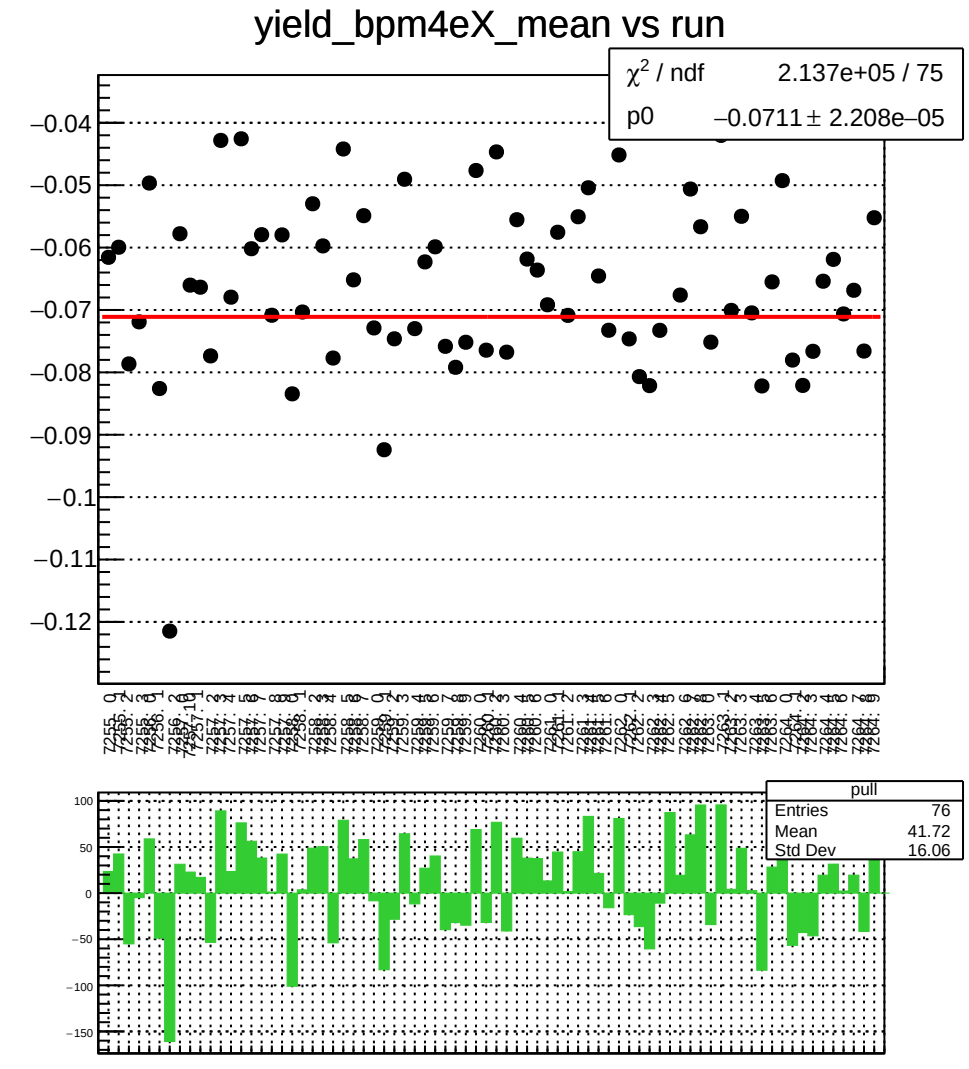

pull1D
Entries 76
Mean 0.6752
Std Dev 4.338
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

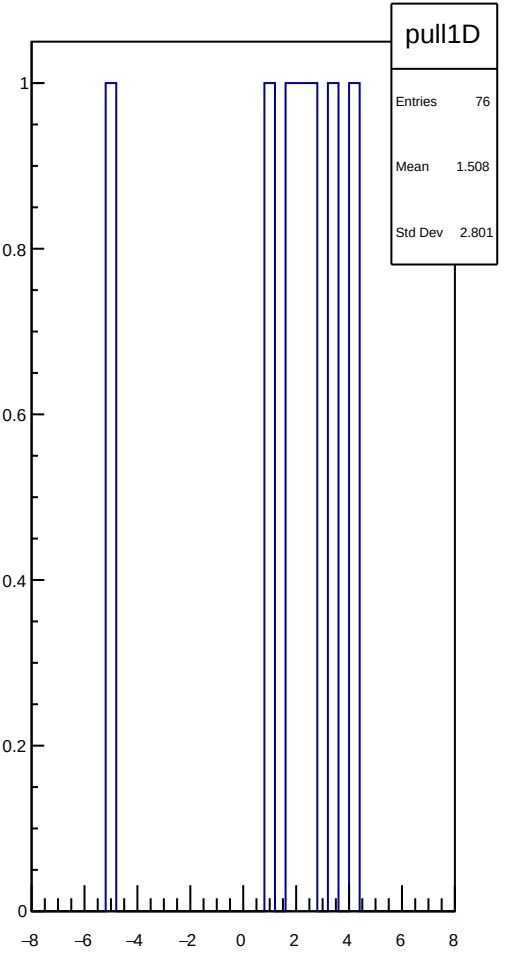

yield_bpm4aX_rms vs run
χ² / ndf 2.16e+05 / 75
p0 0.01888 ± 1.684e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

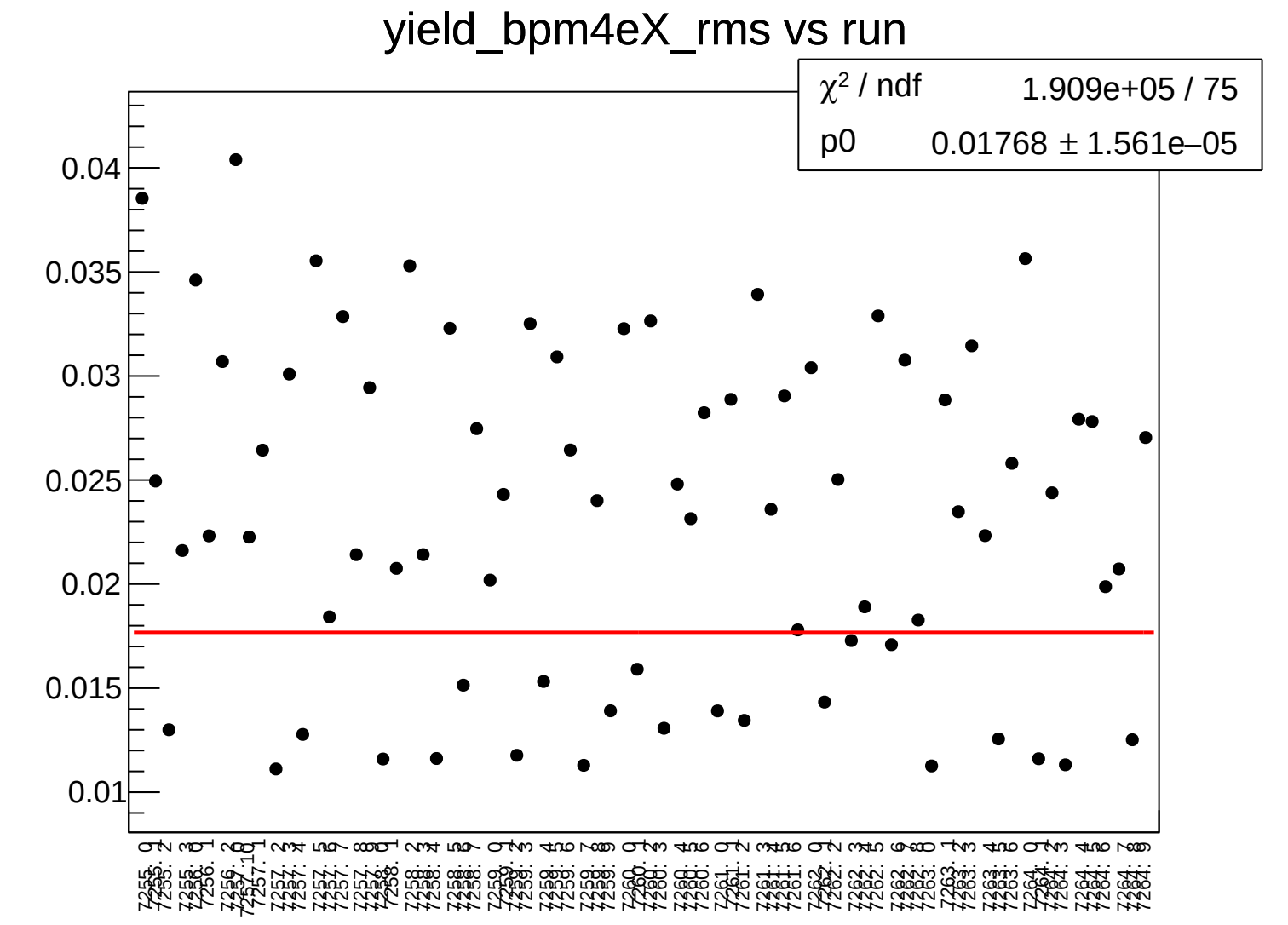

yield_bpm4aY_mean vs run
χ² / ndf 9.563e+04 / 75
p0 0.6279 ± 1.407e−05
0.64
0.635
0.63
0.625
0.62
0.615
pull
Entries 76
Mean −617.6
Std Dev 661.5
100
50
0
−50
−100

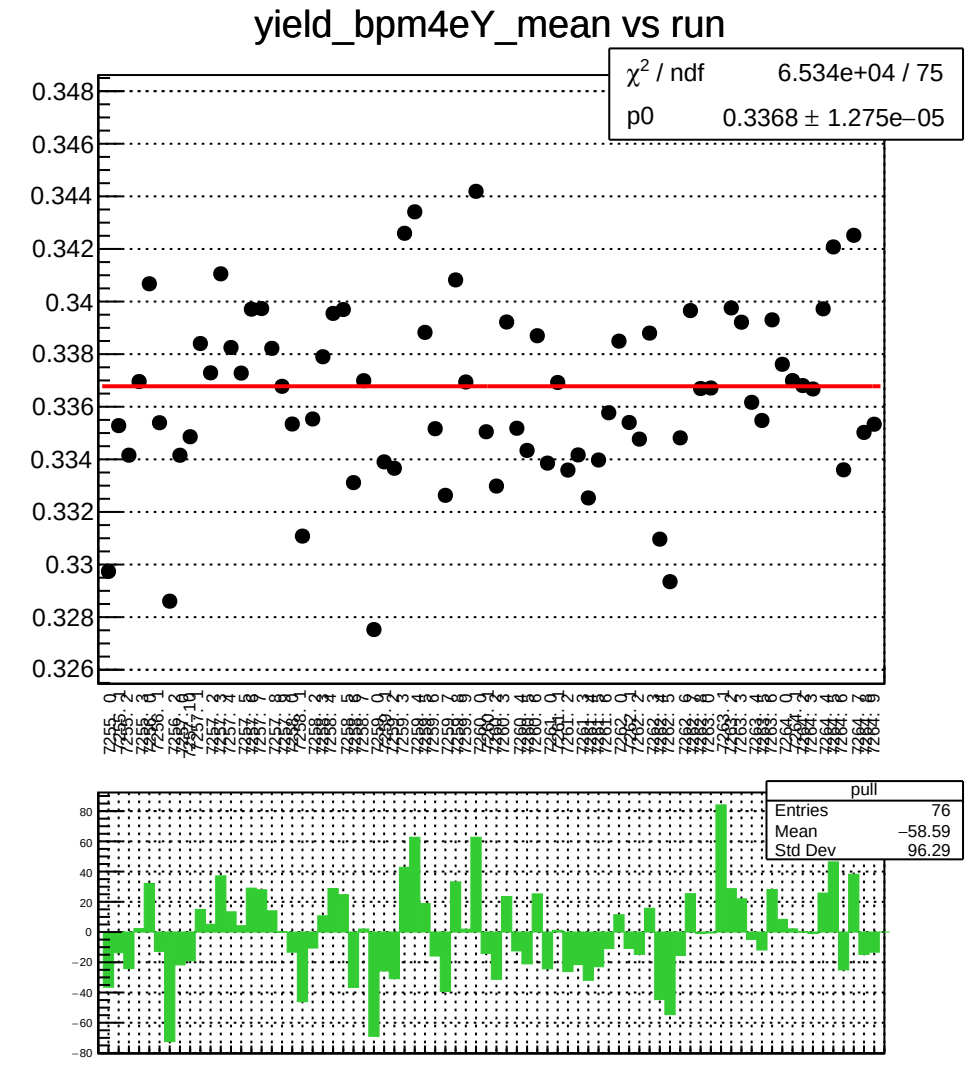

pull1D
Entries 76
Mean 0.8617
Std Dev 4.35
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

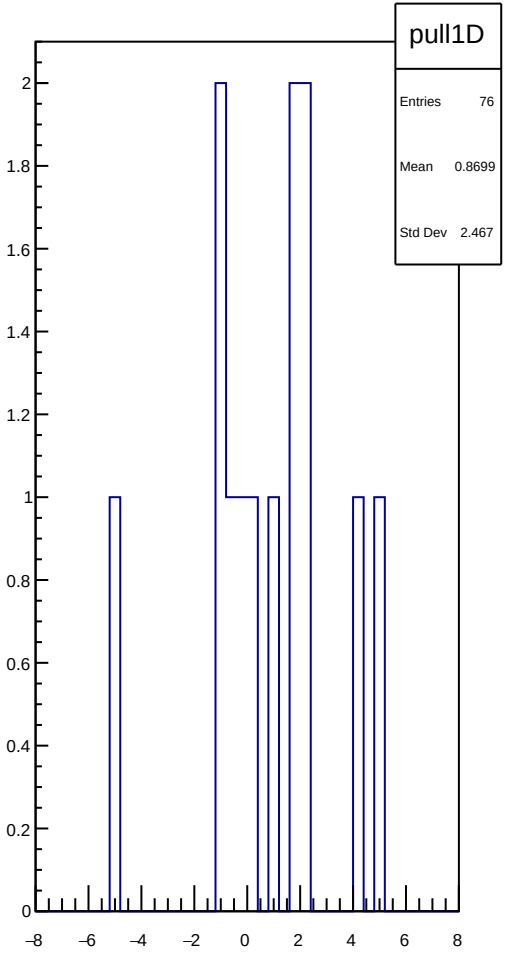

yield_bpm4aY_rms vs run
χ² / ndf 7106 / 75
p0 0.01205 ± 9.953e–06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

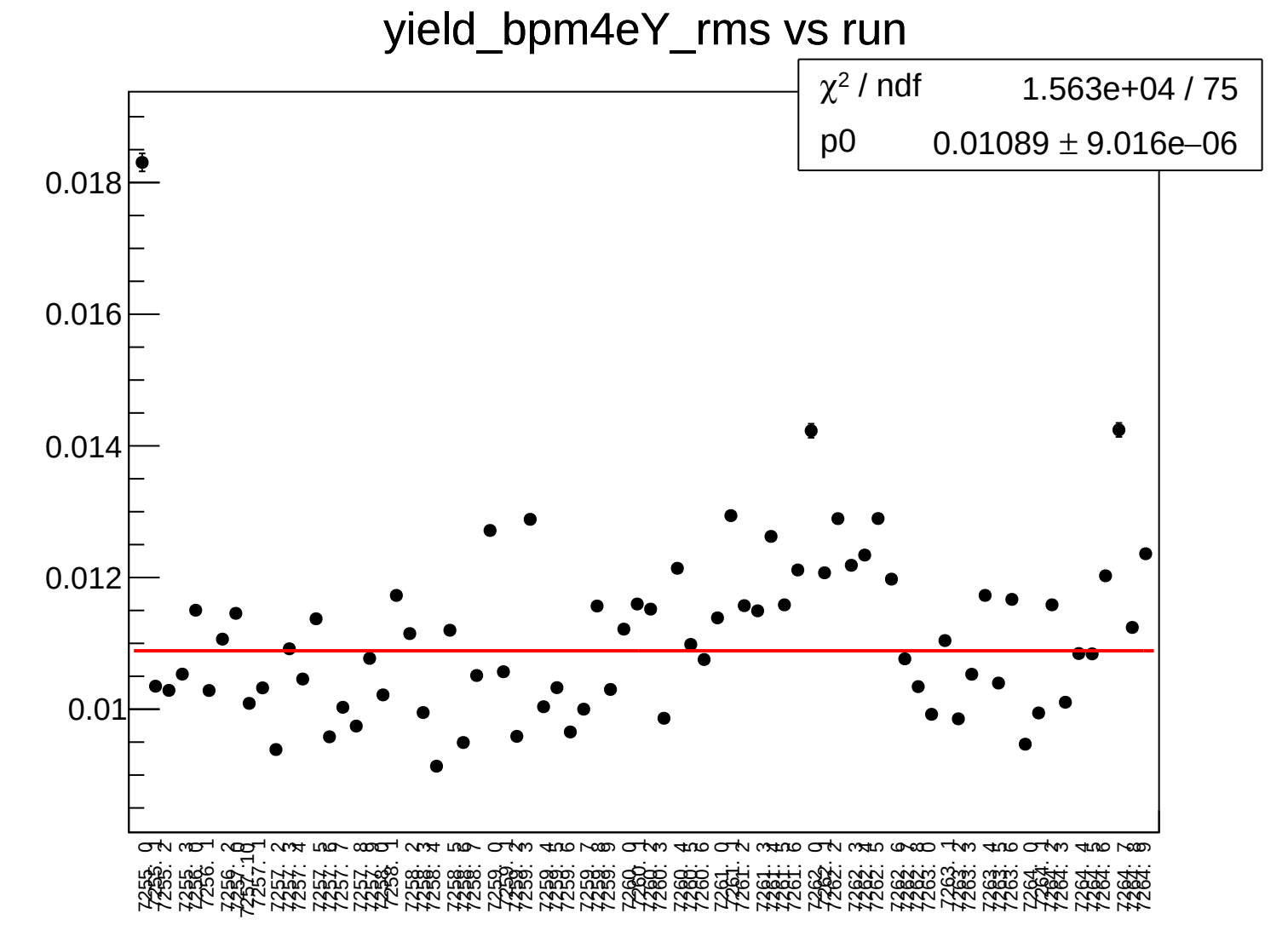

yield_bpm4eX_mean vs run
χ² / ndf 2.137e+05 / 75
p0 −0.0711 ± 2.208e−05
pull
Entries 76
Mean 41.72
Std Dev 16.06

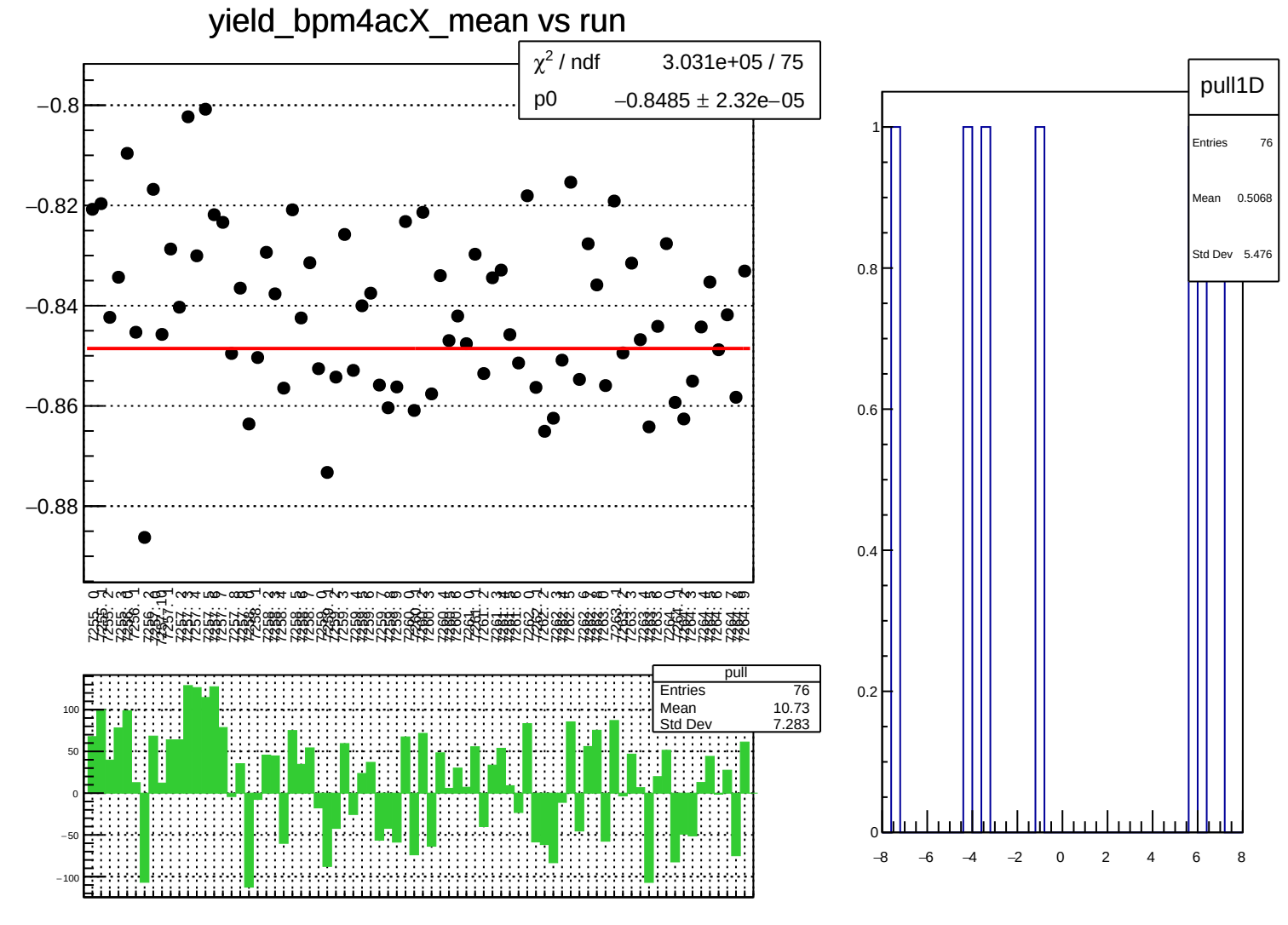

pull1D
Entries 76
Mean 1.508
Std Dev 2.801

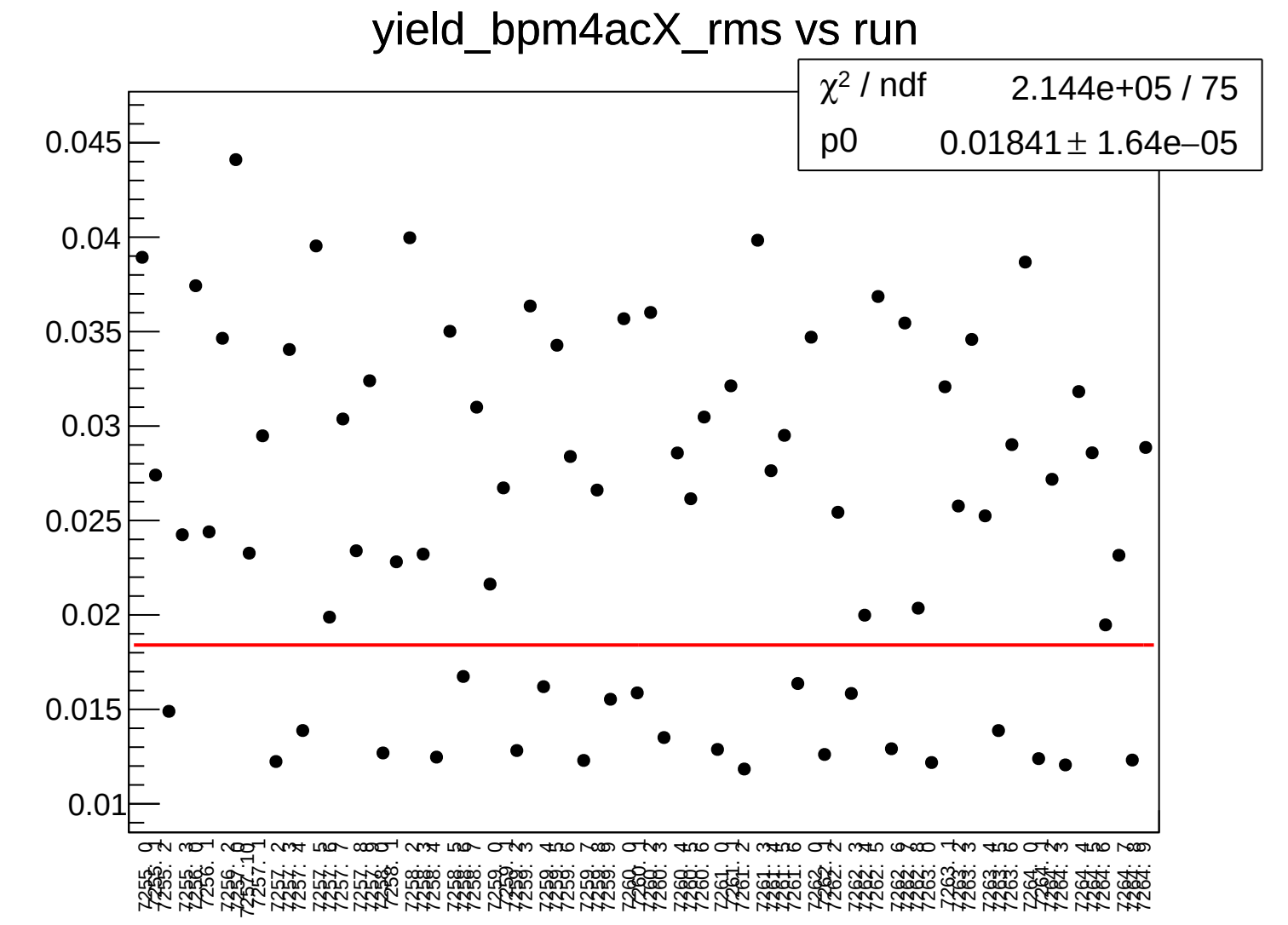

yield_bpm4eX_rms vs run
χ² / ndf 1.909e+05 / 75
p0 0.01768 ± 1.561e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

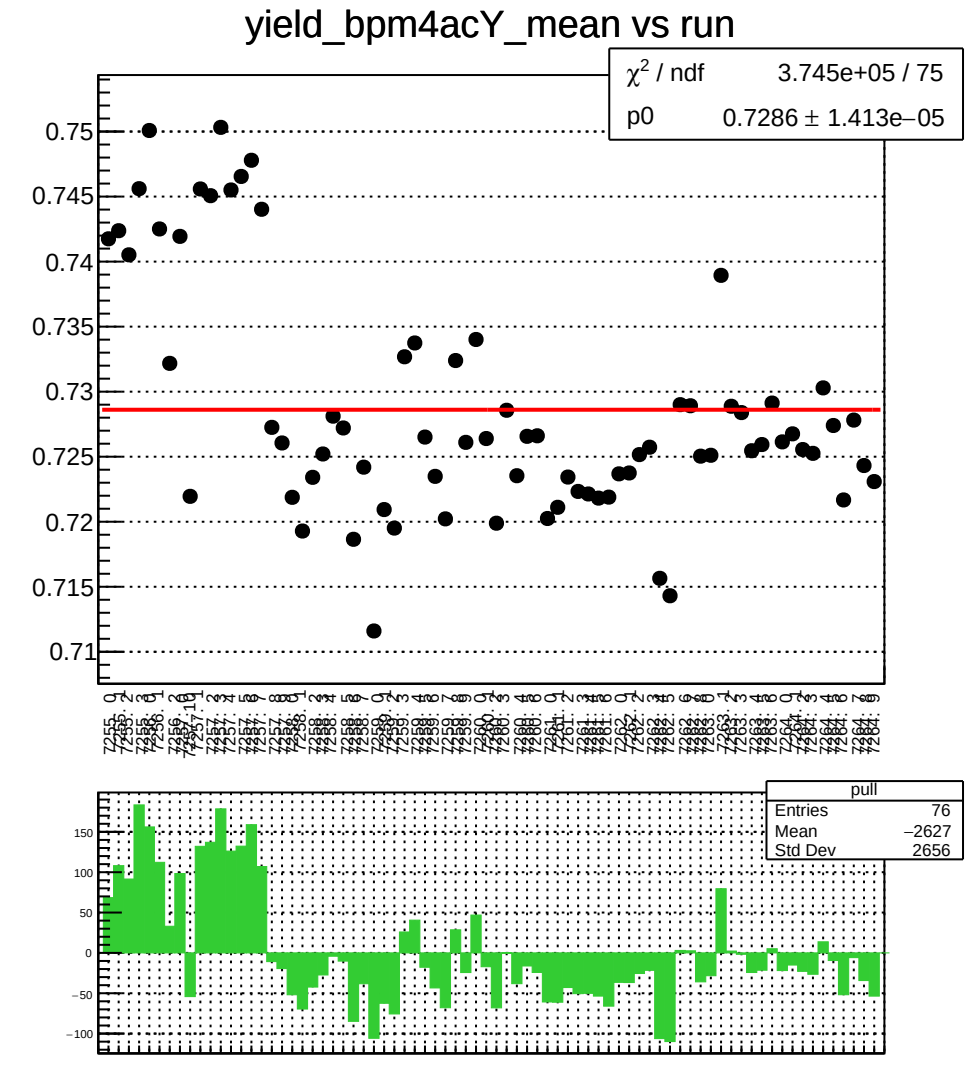

yield_bpm4eY_mean vs run
χ² / ndf 6.534e+04 / 75
p0 0.3368 ± 1.275e−05
pull
Entries 76
Mean −58.59
Std Dev 96.29

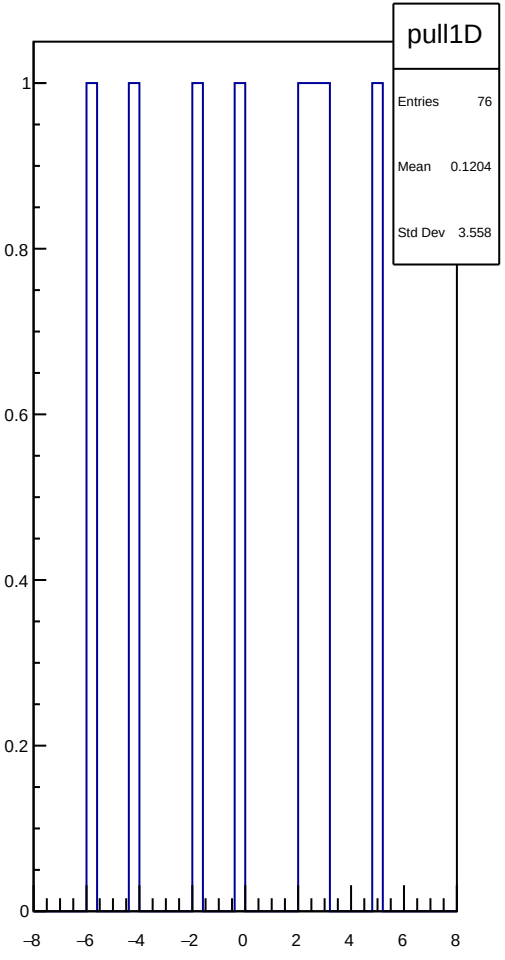

pull1D
Entries 76
Mean 0.8699
Std Dev 2.467

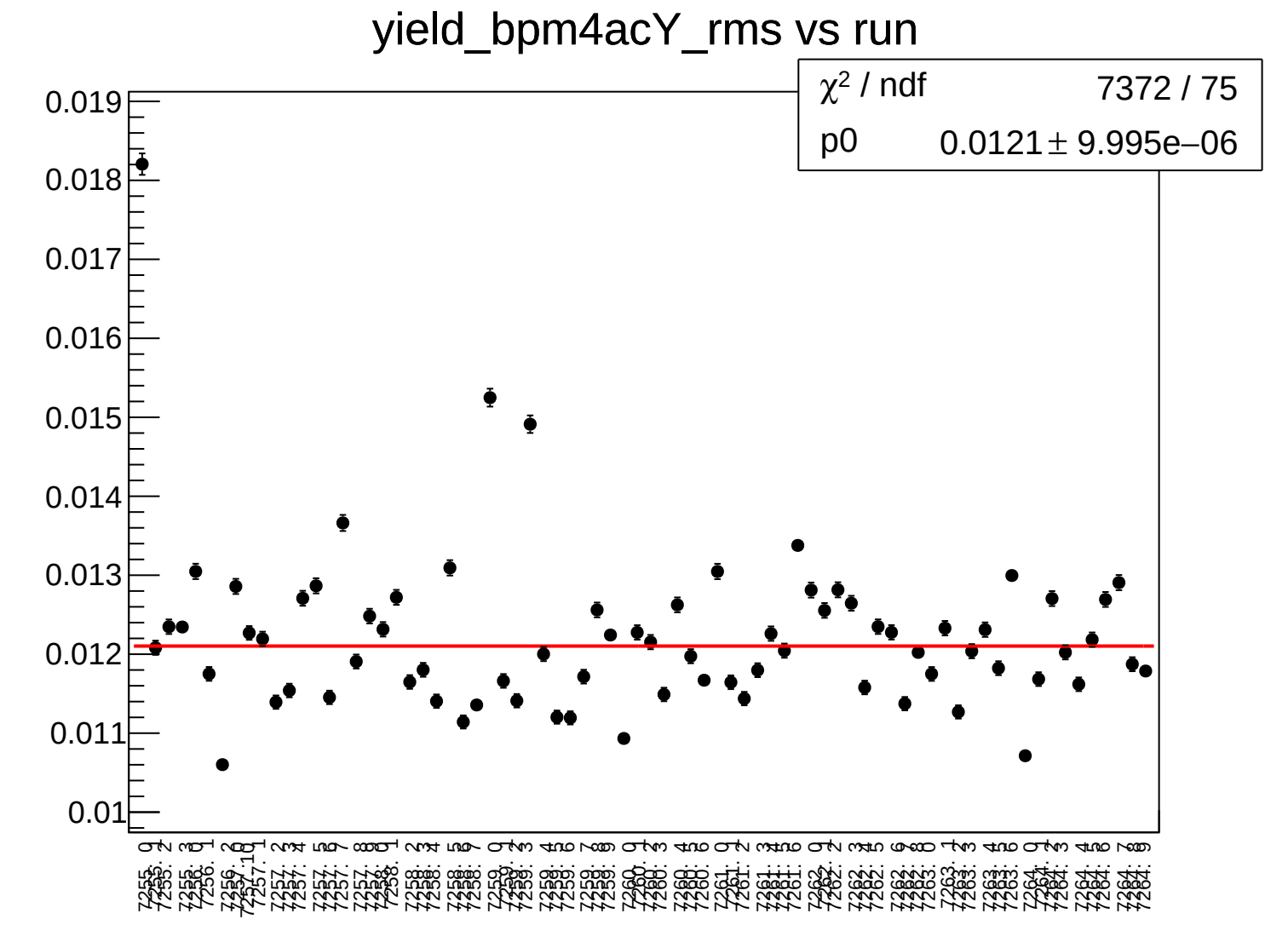

yield_bpm4eY_rms vs run
χ² / ndf 1.563e+04 / 75
p0 0.01089 ± 9.016e–06
0.018
0.016
0.014
0.012
0.01

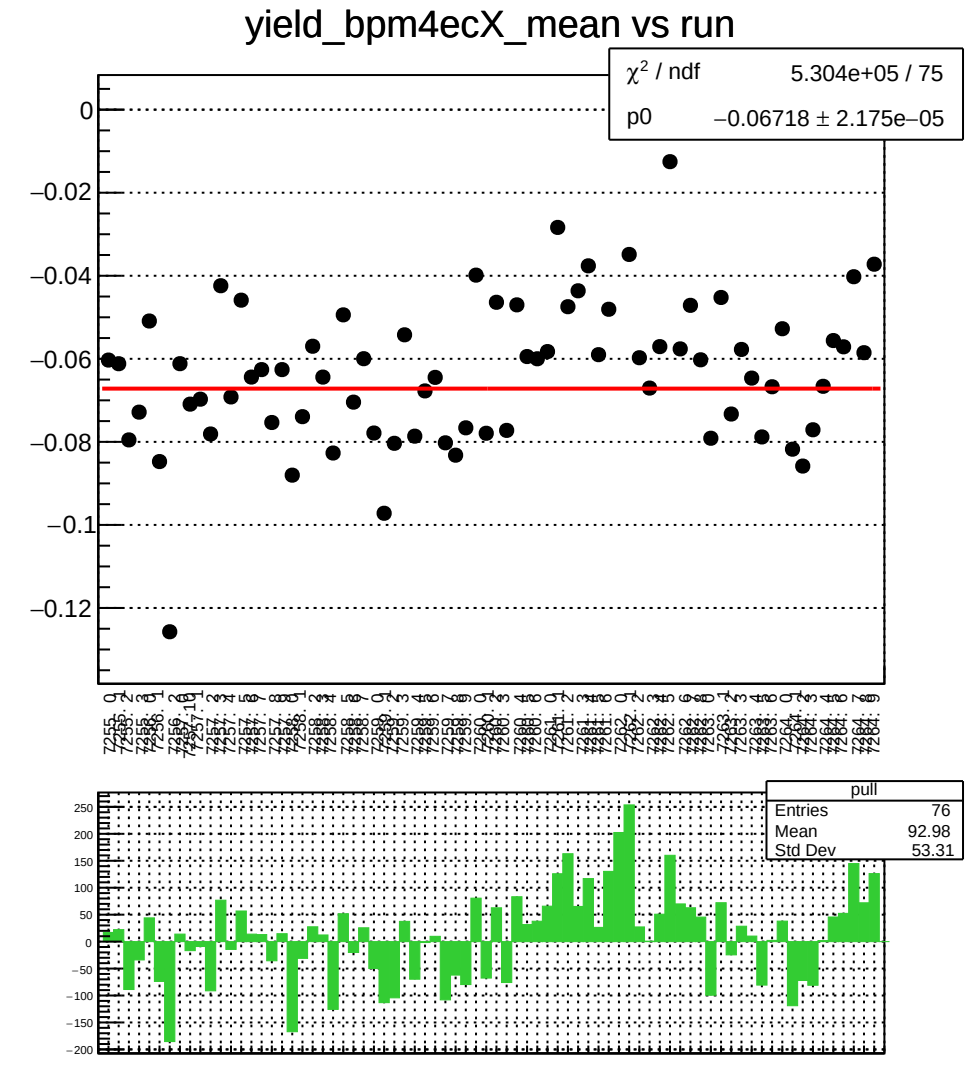

yield_bpm4acX_mean vs run
χ² / ndf 3.031e+05 / 75
p0 −0.8485 ± 2.32e−05
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 76
Mean 10.73
Std Dev 7.283
100
50
0
−50
−100
pull1D
Entries 76
Mean 0.5068
Std Dev 5.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

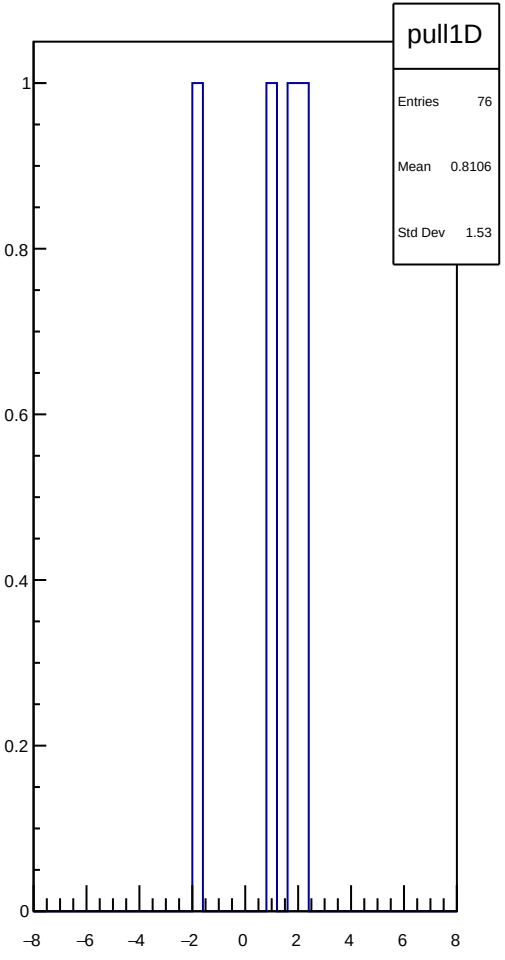

yield_bpm4acX_rms vs run
χ² / ndf 2.144e+05 / 75
p0 0.01841 ± 1.64e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

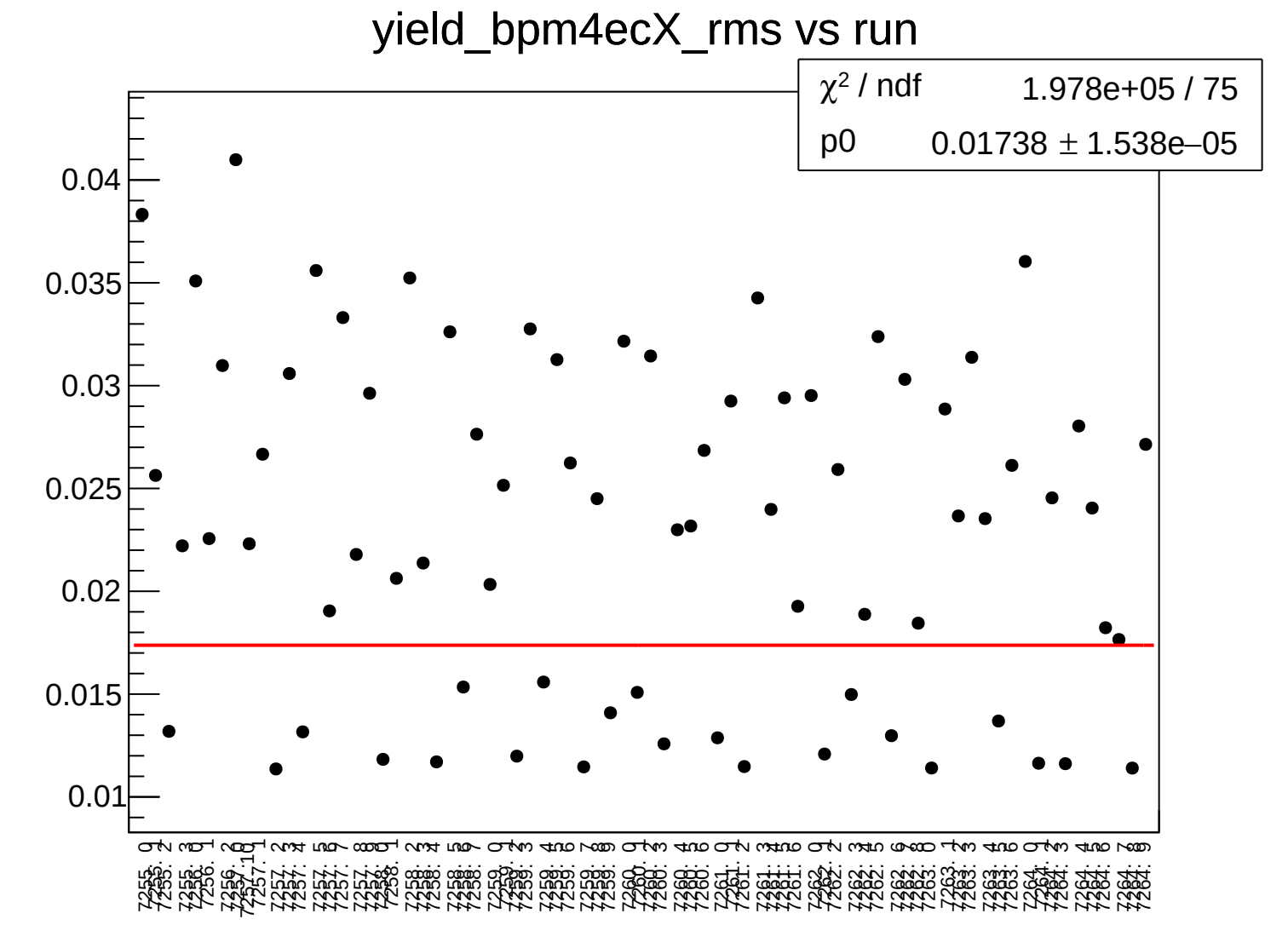

yield_bpm4acY_mean vs run
χ² / ndf 3.745e+05 / 75
p0 0.7286 ± 1.413e−05
pull
Entries 76
Mean −2627
Std Dev 2656

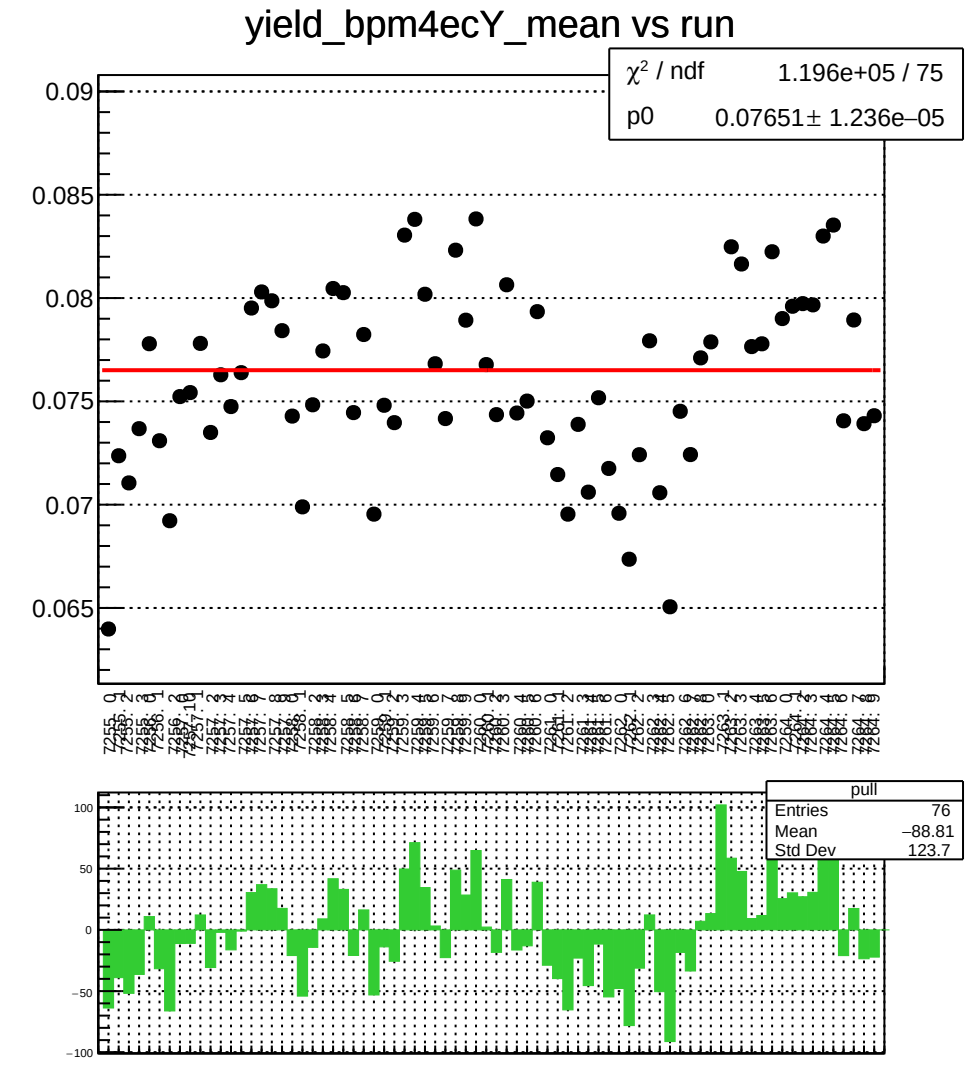

pull1D
Entries 76
Mean 0.1204
Std Dev 3.558

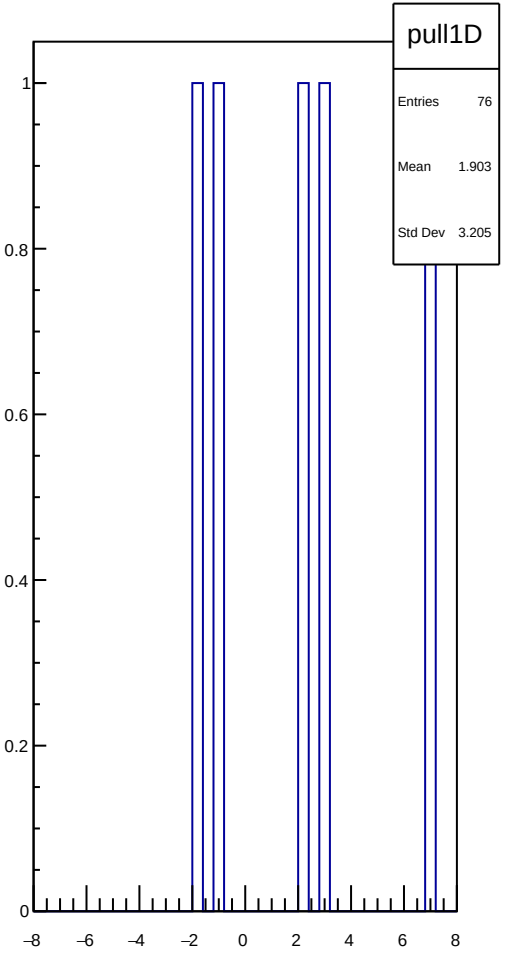

yield_bpm4acY_rms vs run
χ² / ndf 7372 / 75
p0 0.0121 ± 9.995e−06
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

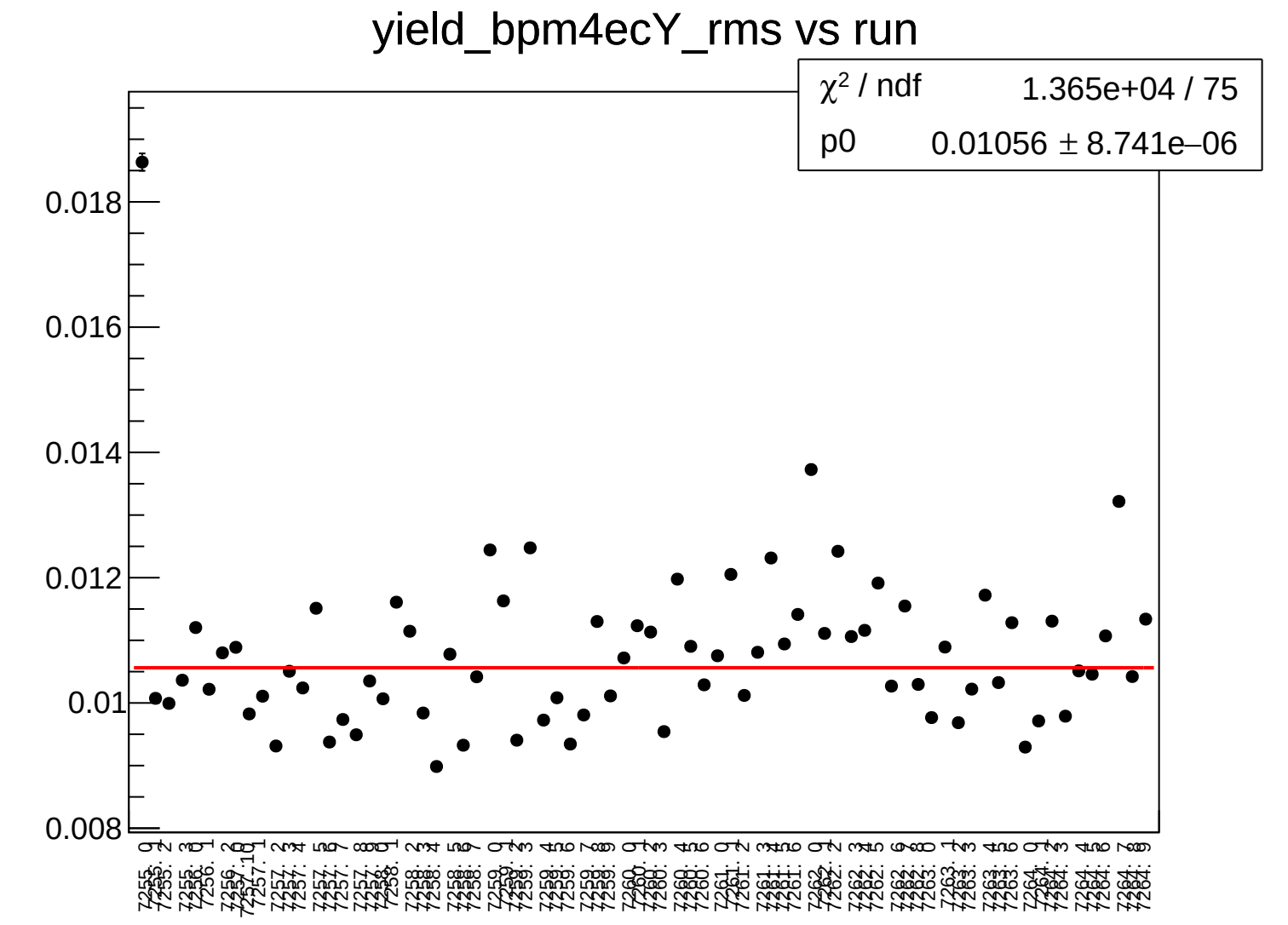

yield_bpm4ecX_mean vs run
χ² / ndf 5.304e+05 / 75
p0 −0.06718 ± 2.175e−05
pull
Entries 76
Mean 92.98
Std Dev 53.31

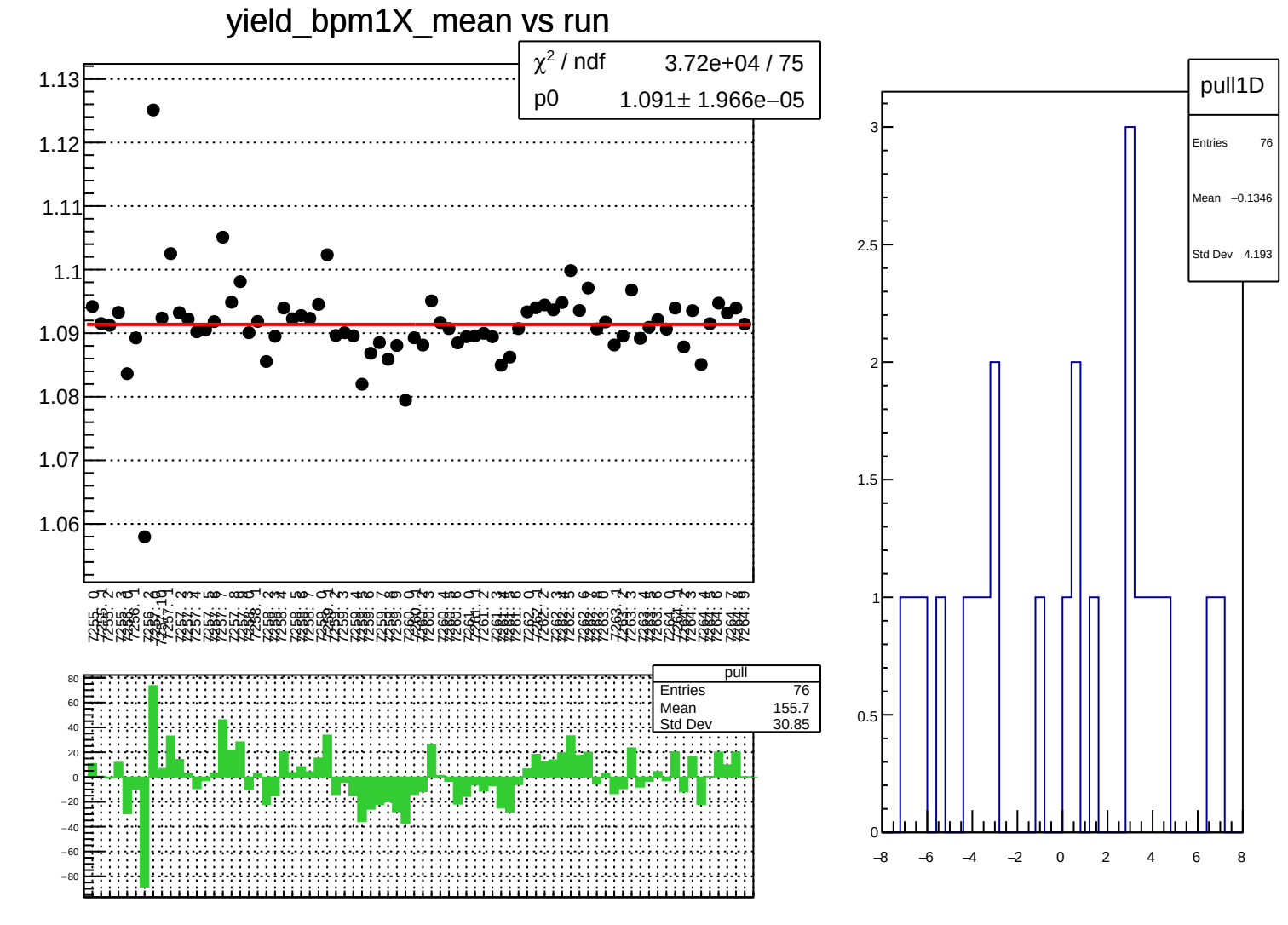

pull1D
Entries 76
Mean 0.8106
Std Dev 1.53

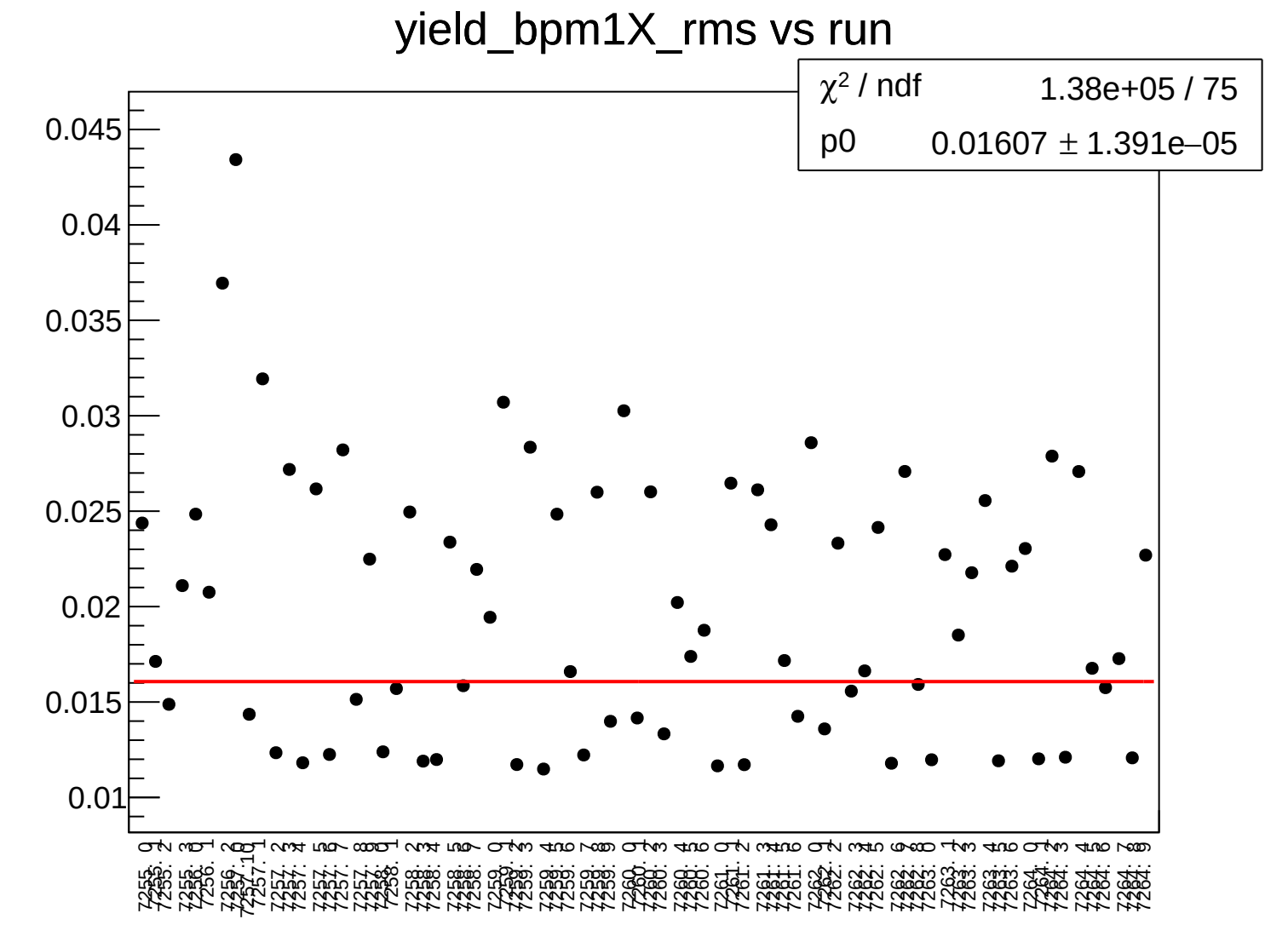

yield_bpm4ecX_rms vs run
χ² / ndf 1.978e+05 / 75
p0 0.01738 ± 1.538e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

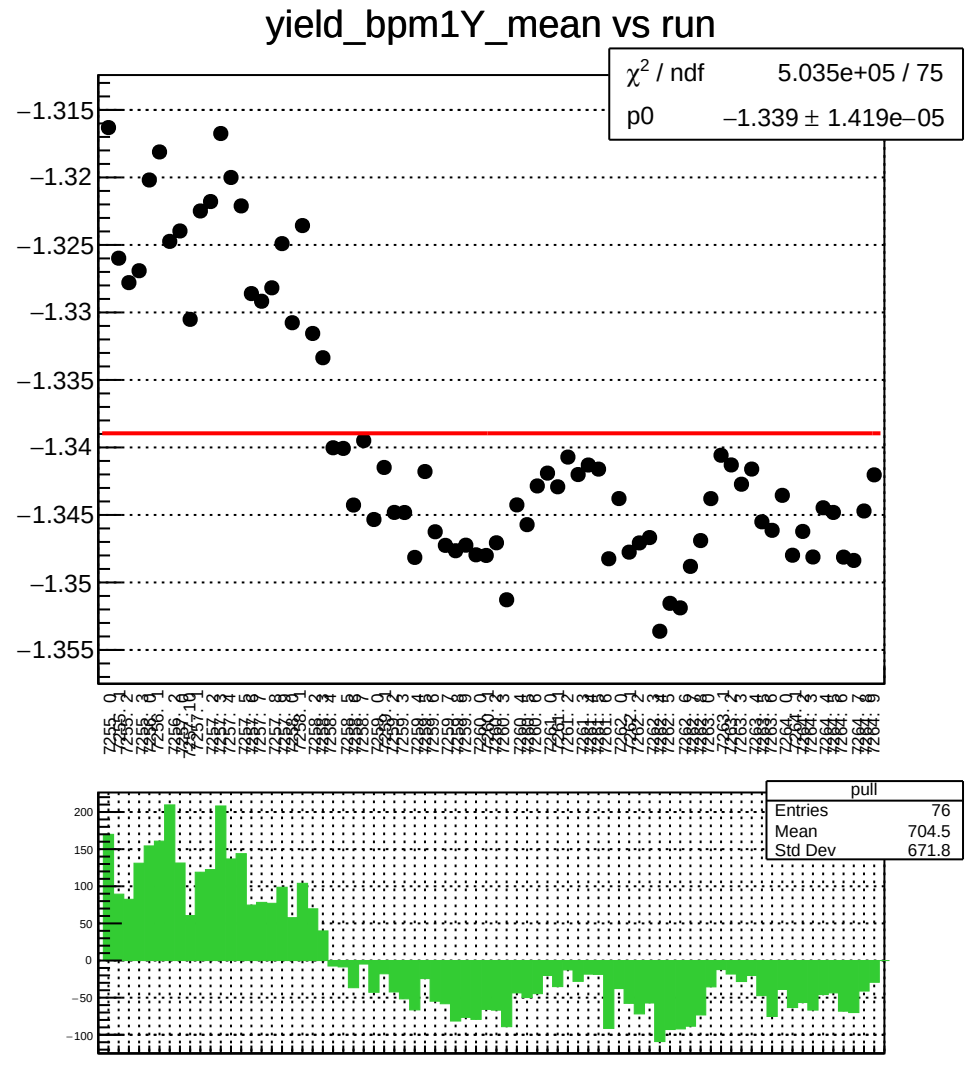

yield_bpm4ecY_mean vs run
χ² / ndf 1.196e+05 / 75
p0 0.07651± 1.236e–05
0.09
0.085
0.08
0.075
0.07
0.065
pull
Entries 76
Mean –88.81
Std Dev 123.7
100
50
0
–50
–100

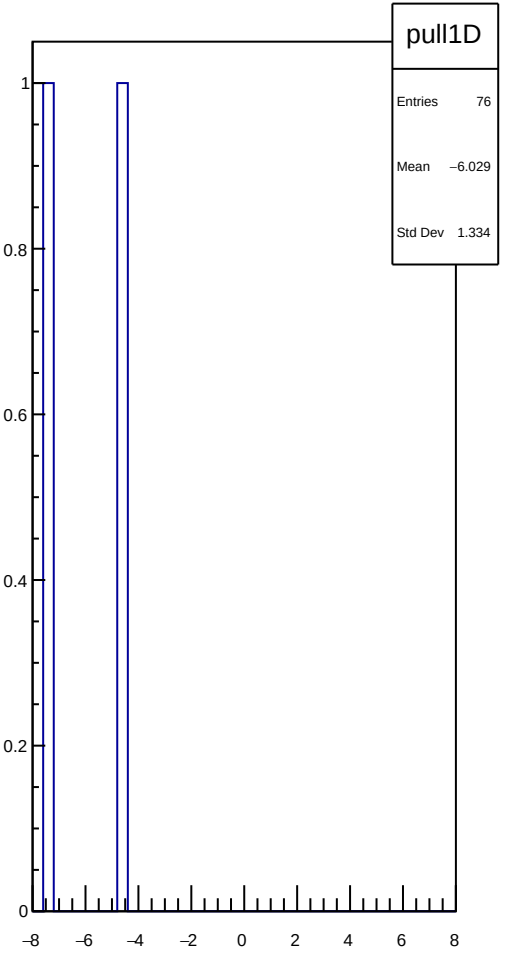

pull1D
Entries 76
Mean 1.903
Std Dev 3.205
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

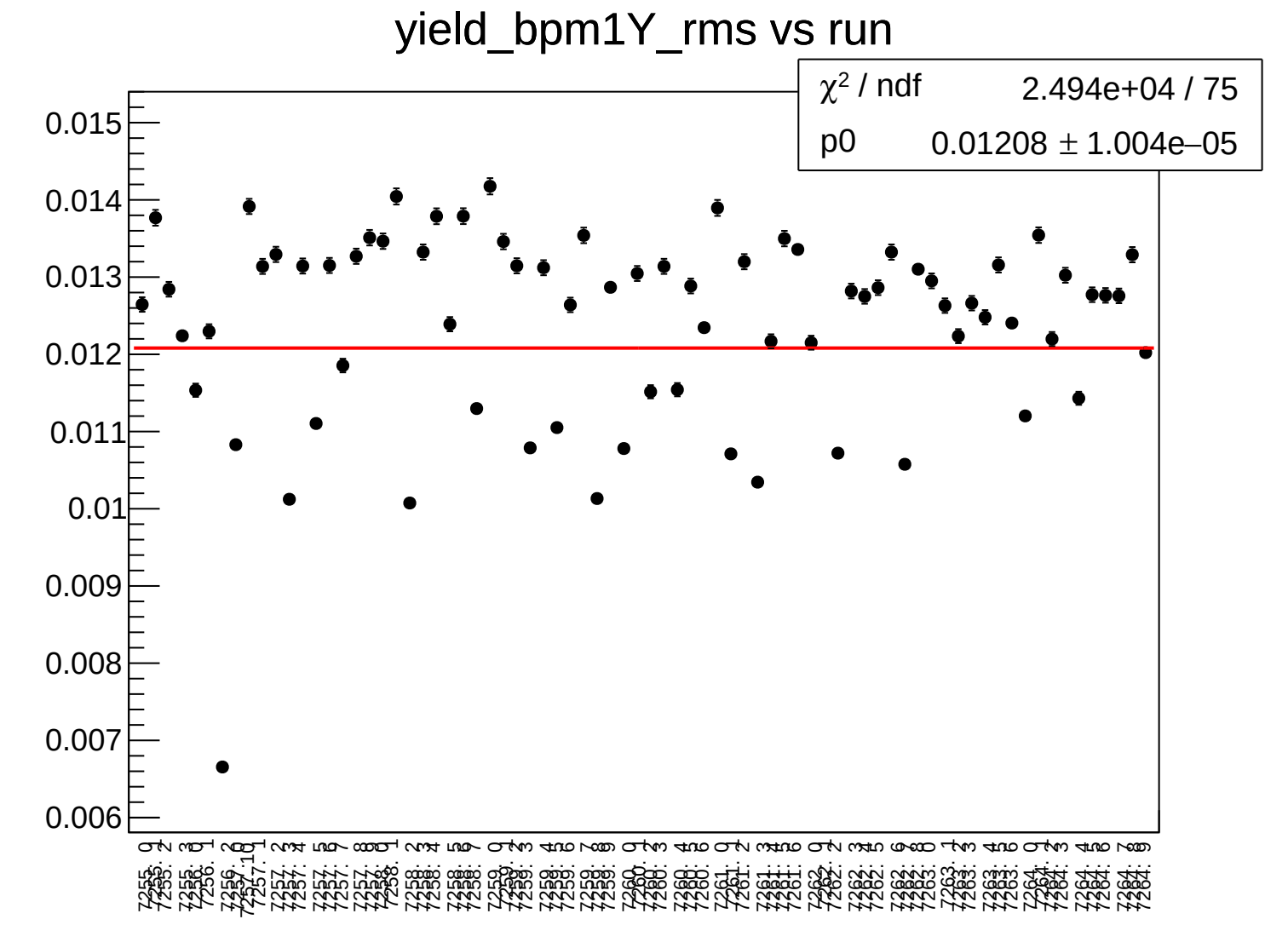

yield_bpm4ecY_rms vs run
χ² / ndf 1.365e+04 / 75
p0 0.01056 ± 8.741e–06
0.018
0.016
0.014
0.012
0.01
0.008

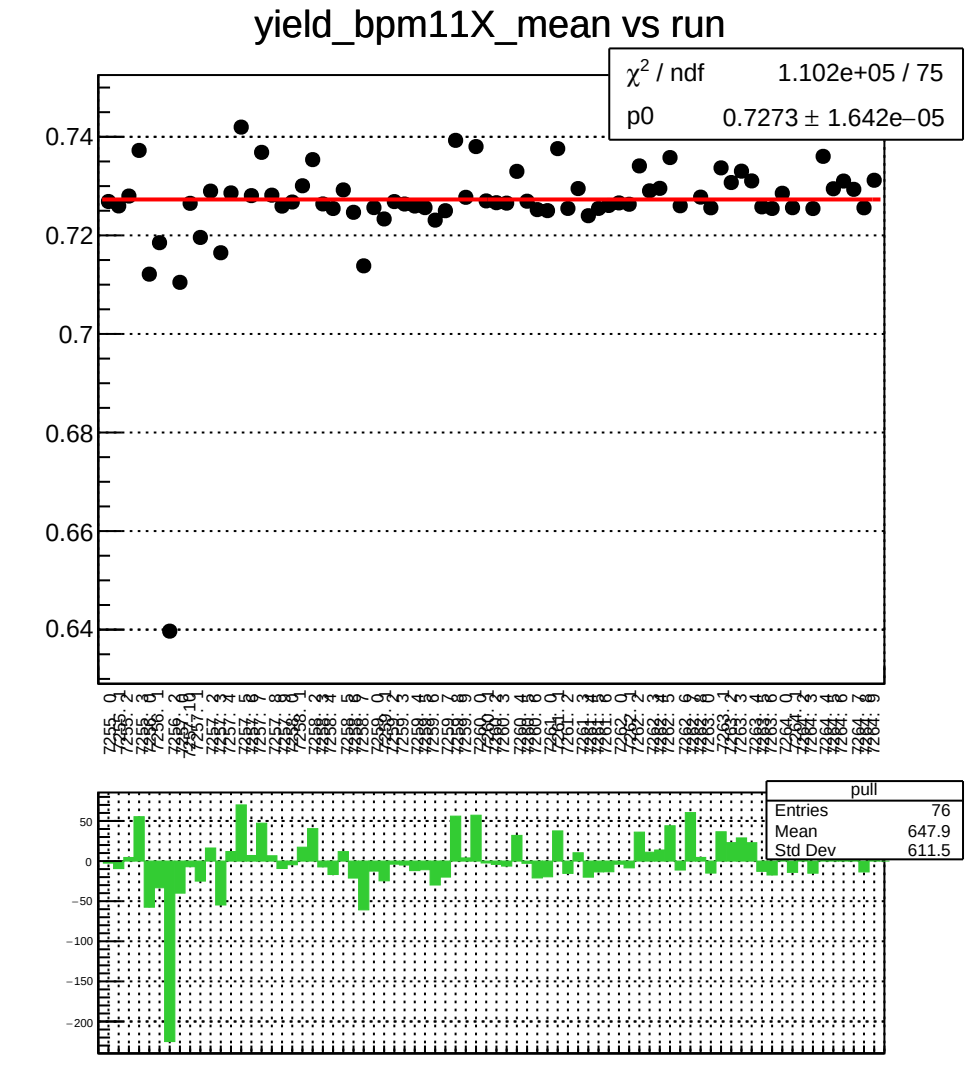

yield_bpm1X_mean vs run
χ² / ndf 3.72e+04 / 75
p0 1.091± 1.966e−05
pull
Entries 76
Mean 155.7
Std Dev 30.85
pull1D
Entries 76
Mean −0.1346
Std Dev 4.193

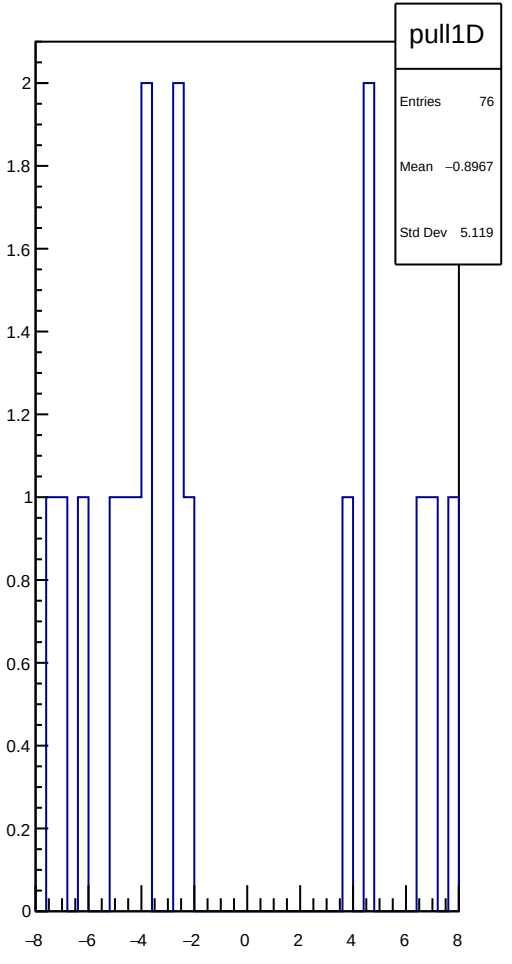

yield_bpm1X_rms vs run
χ² / ndf 1.38e+05 / 75
p0 0.01607 ± 1.391e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

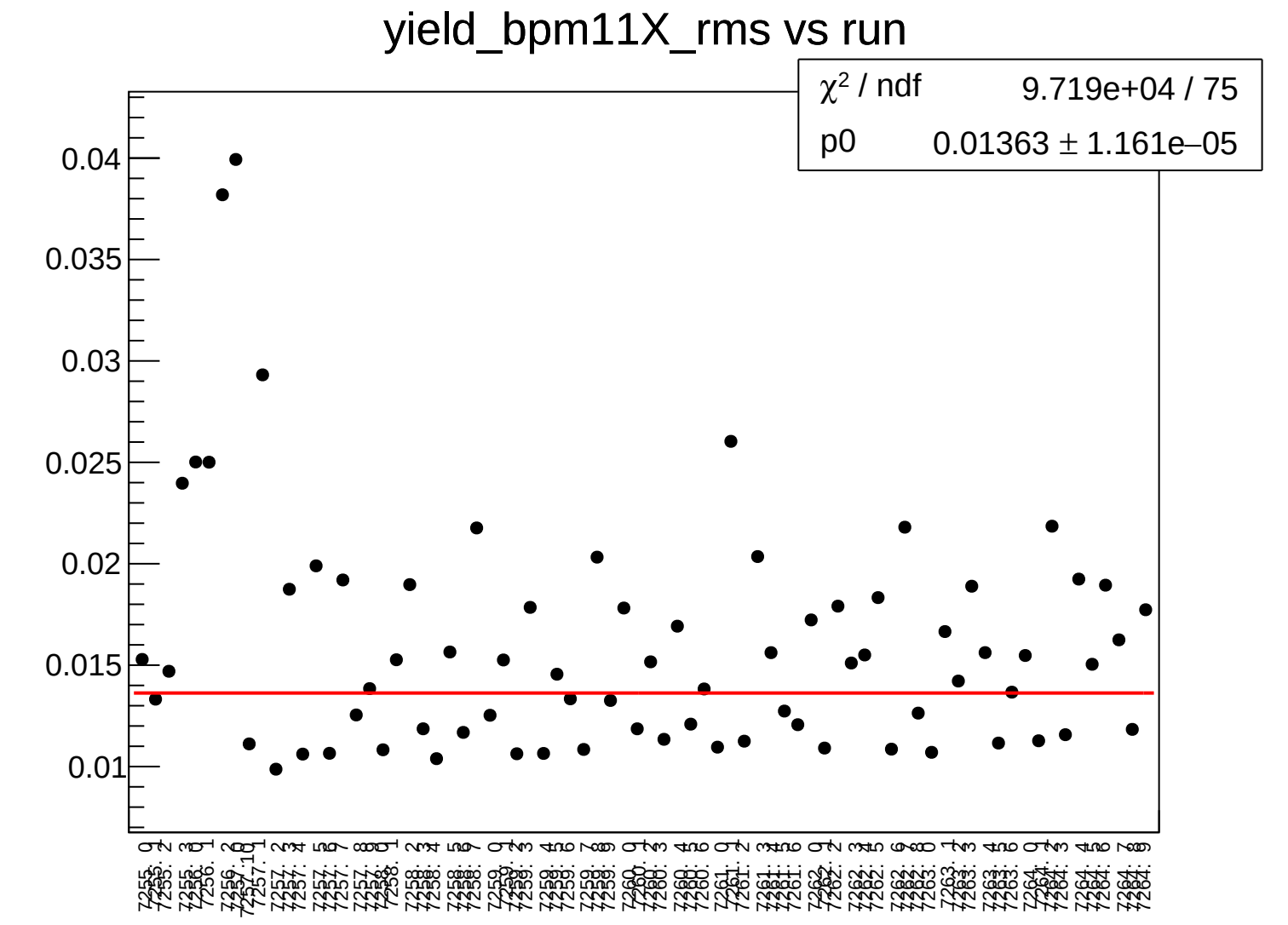

yield_bpm1Y_mean vs run
χ² / ndf 5.035e+05 / 75
p0 −1.339 ± 1.419e−05
−1.315
−1.32
−1.325
−1.33
−1.335
−1.34
−1.345
−1.35
−1.355
pull
Entries 76
Mean 704.5
Std Dev 671.8
200
150
100
50
0
−50
−100

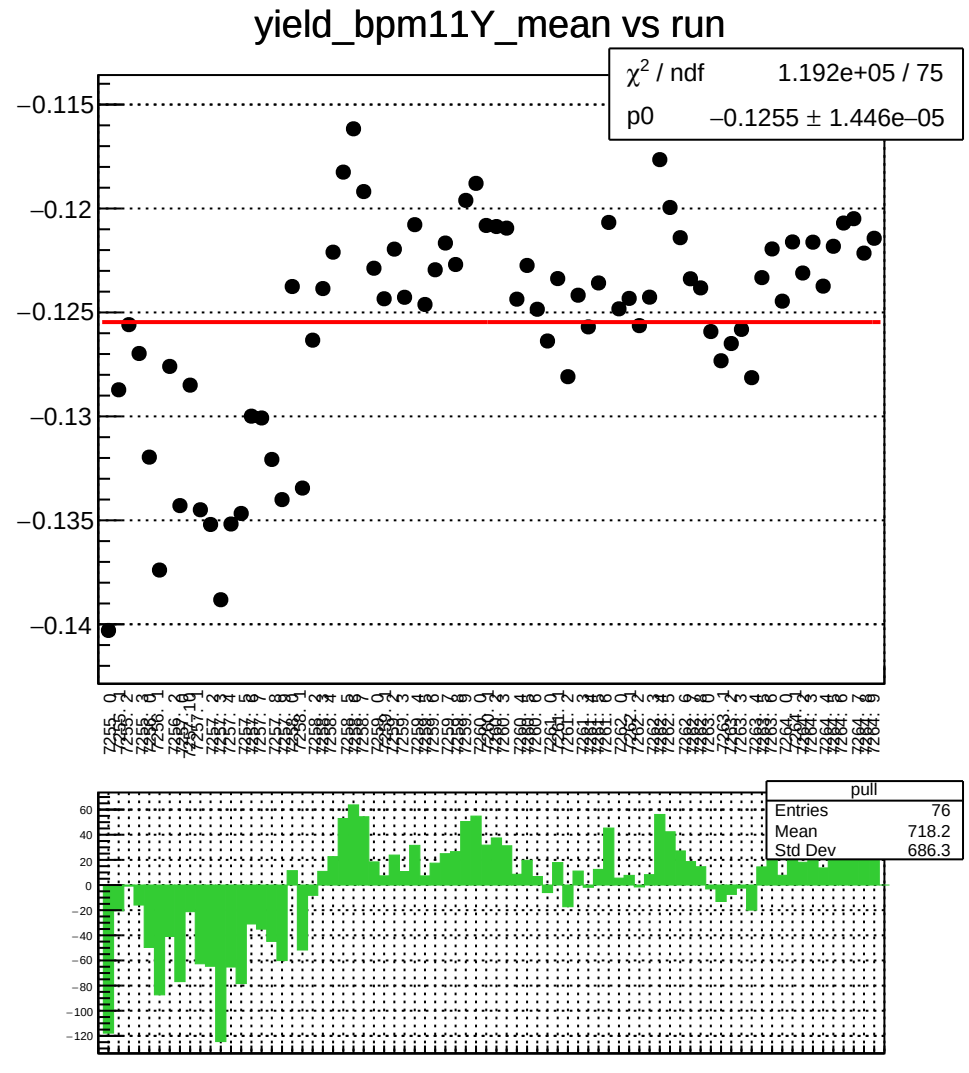

pull1D
Entries 76
Mean −6.029
Std Dev 1.334
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

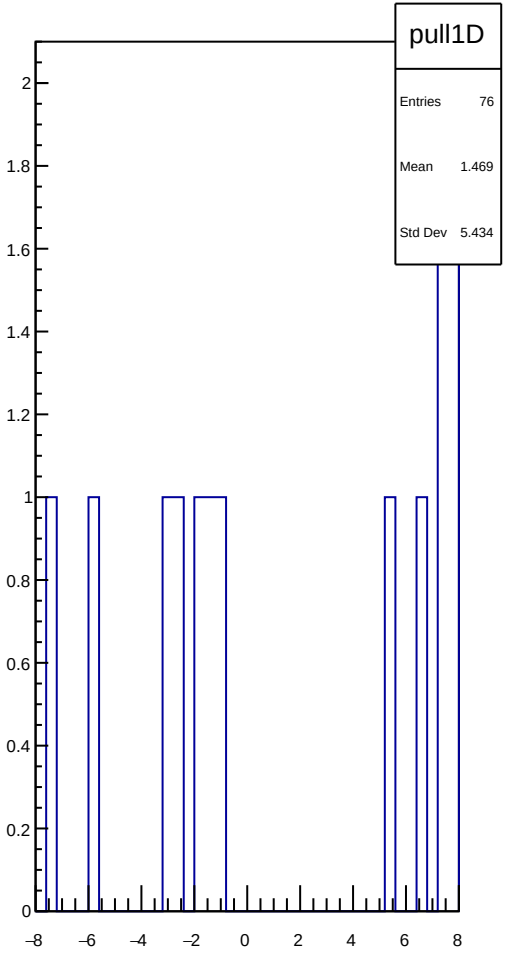

yield_bpm1Y_rms vs run
χ² / ndf 2.494e+04 / 75
p0 0.01208 ± 1.004e−05
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

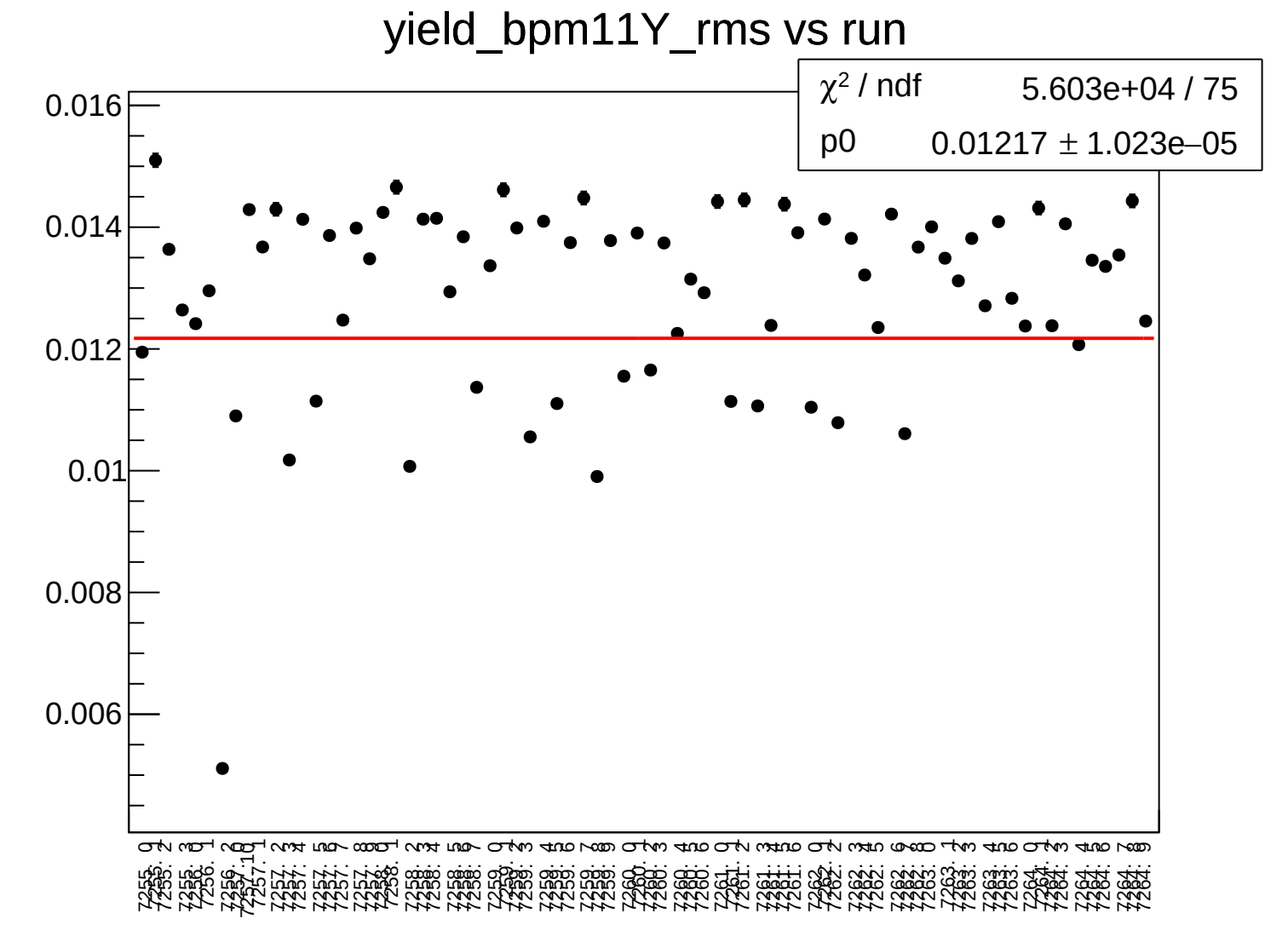

yield_bpm11X_mean vs run
χ² / ndf 1.102e+05 / 75
p0 0.7273 ± 1.642e−05
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 76
Mean 647.9
Std Dev 611.5
50
0
−50
−100
−150
−200

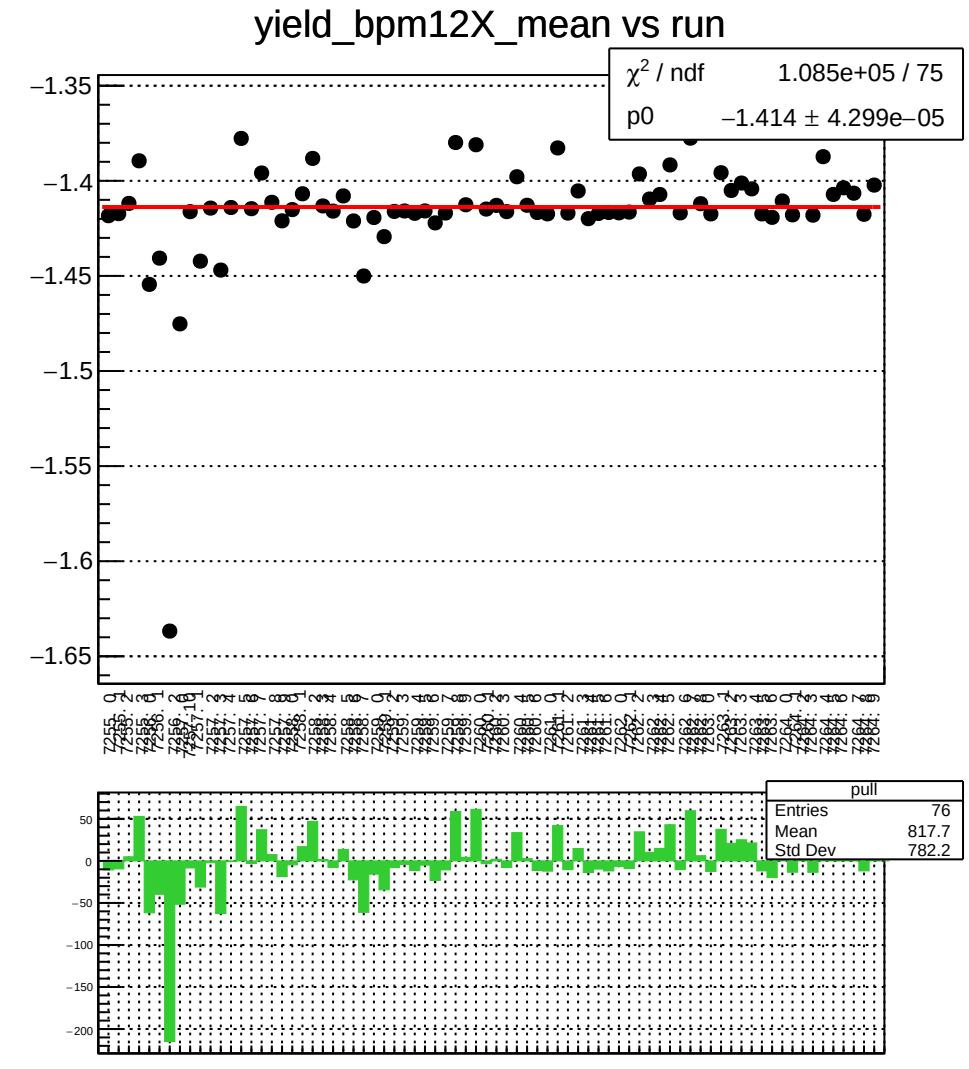

pull1D
Entries 76
Mean −0.8967
Std Dev 5.119
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

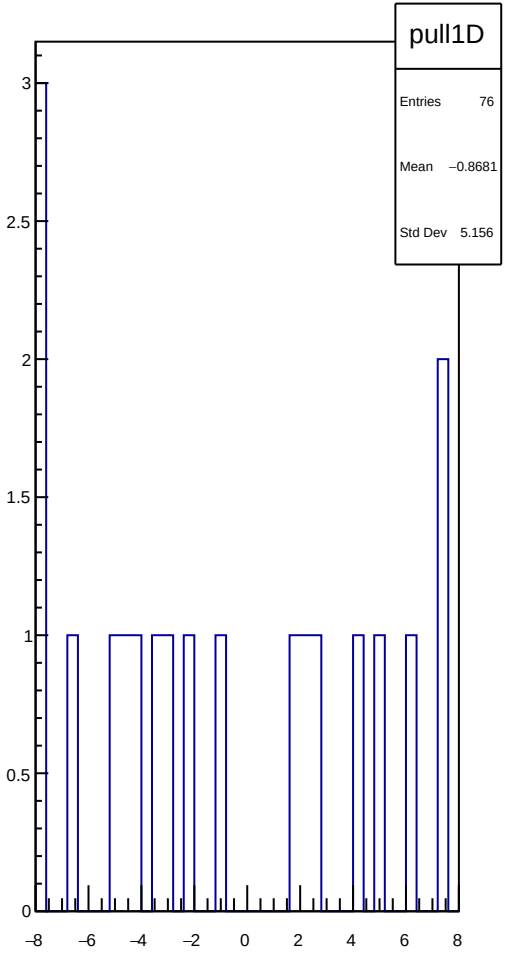

yield_bpm11X_rms vs run
χ² / ndf 9.719e+04 / 75
p0 0.01363 ± 1.161e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

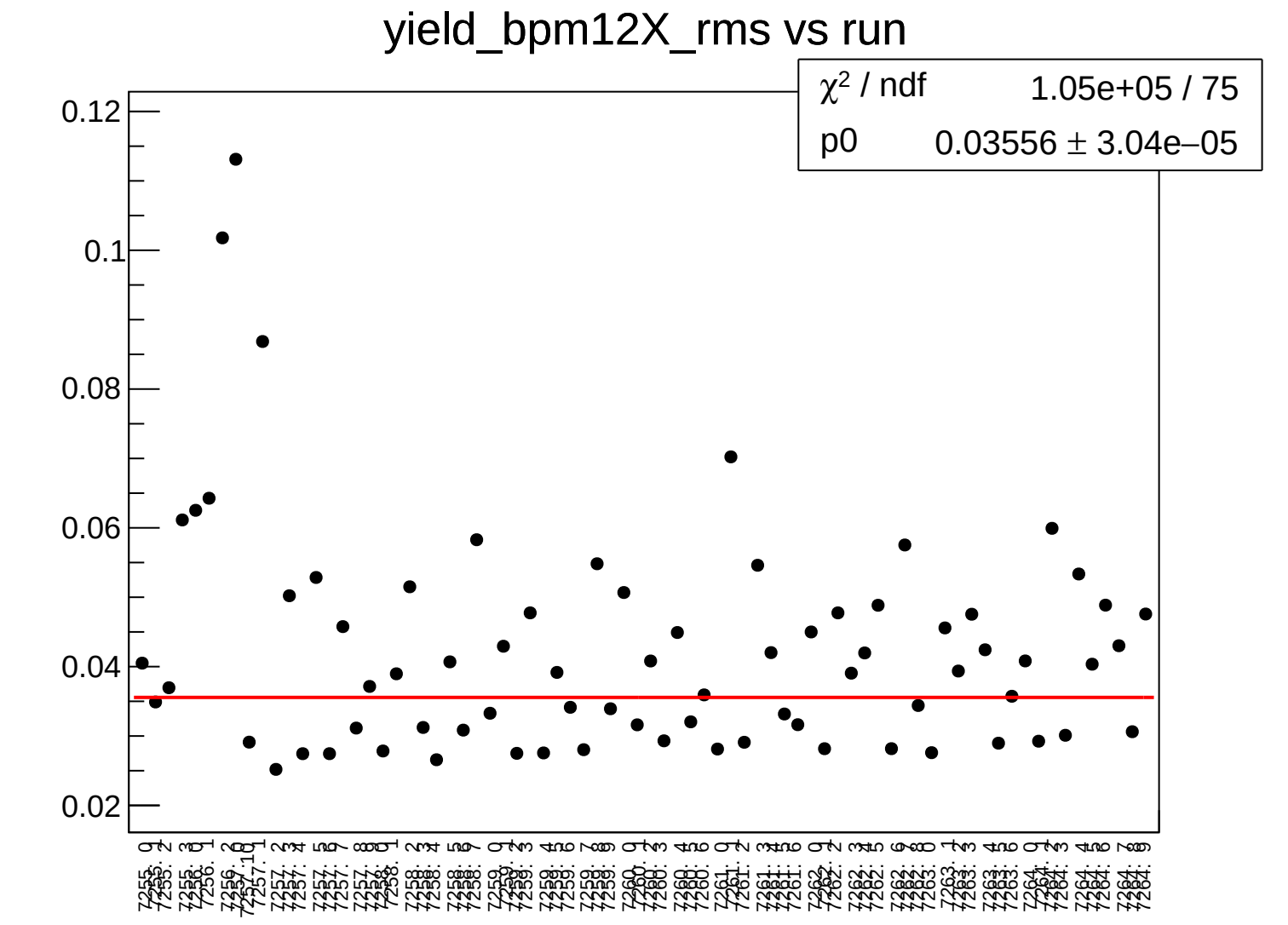

yield_bpm11Y_mean vs run
χ² / ndf 1.192e+05 / 75
p0 −0.1255 ± 1.446e−05
−0.115
−0.12
−0.125
−0.13
−0.135
−0.14
pull
Entries 76
Mean 718.2
Std Dev 686.3
60
40
20
0
−20
−40
−60
−80
−100
−120

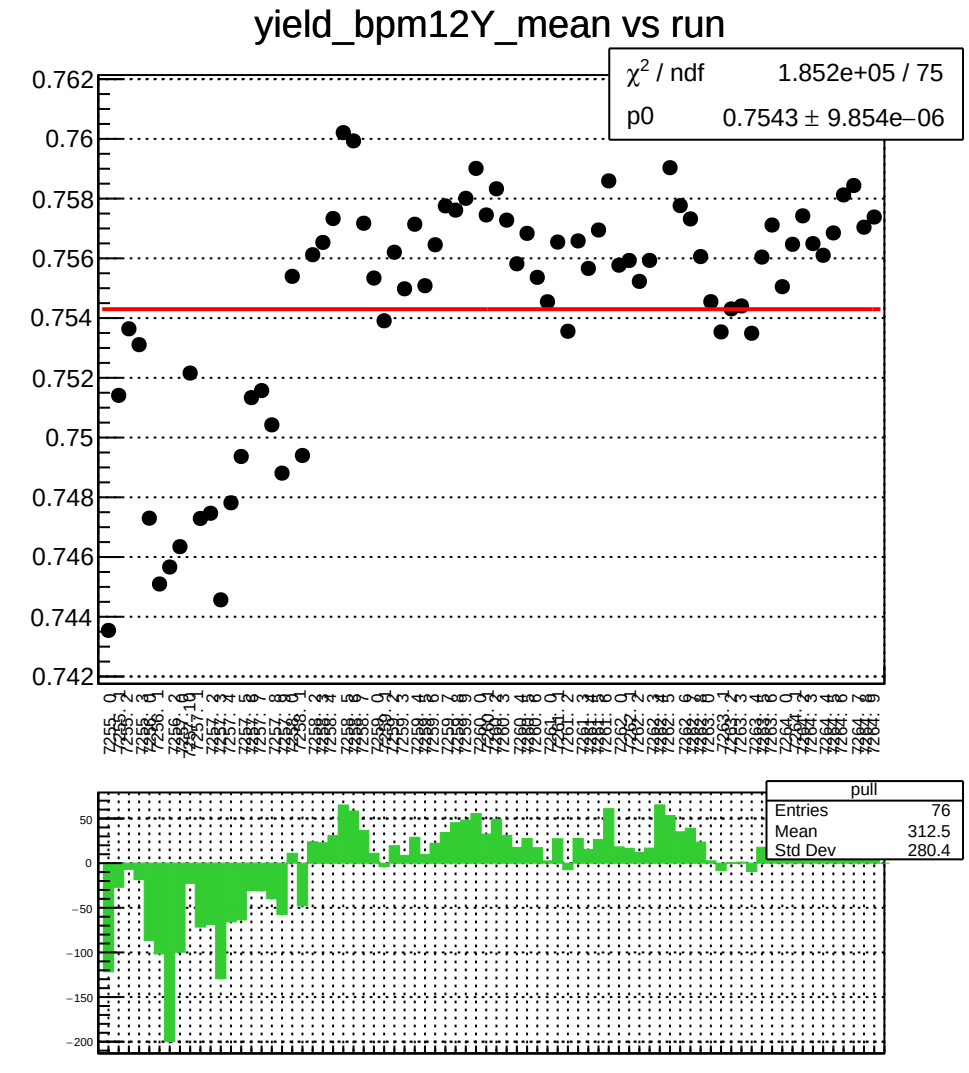

pull1D
Entries 76
Mean 1.469
Std Dev 5.434
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

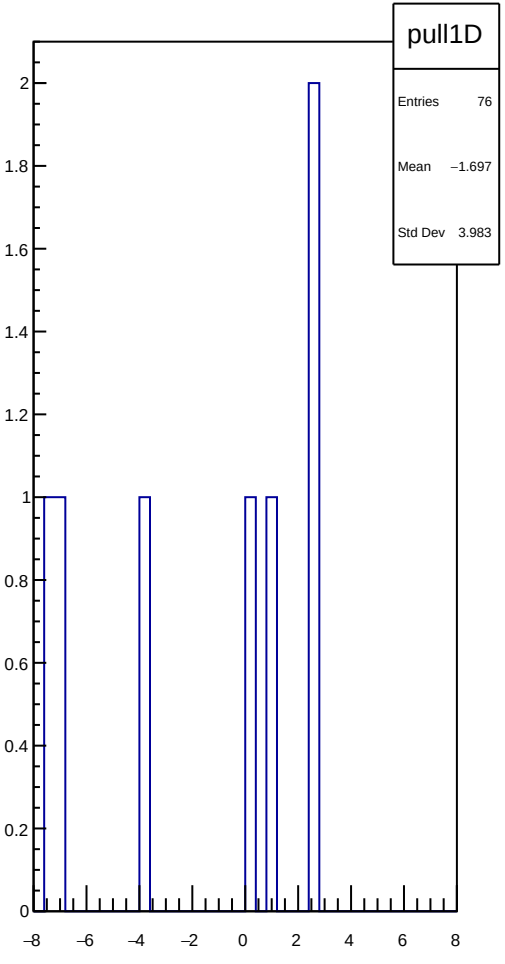

yield_bpm11Y_rms vs run
χ² / ndf 5.603e+04 / 75
p0 0.01217 ± 1.023e−05
0.016
0.014
0.012
0.01
0.008
0.006

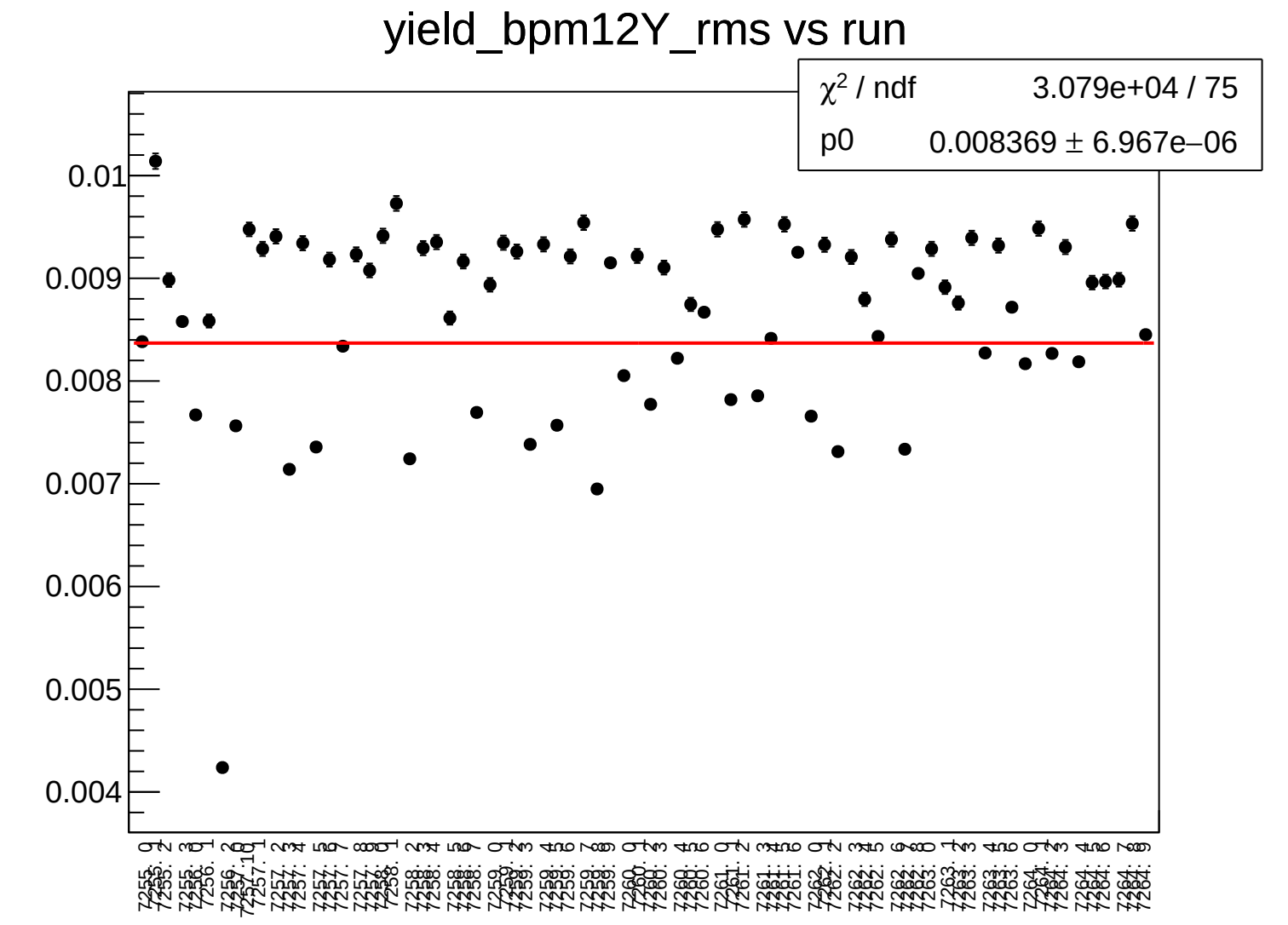

yield_bpm12X_mean vs run
χ² / ndf 1.085e+05 / 75
p0 −1.414 ± 4.299e−05
−1.35
−1.4
−1.45
−1.5
−1.55
−1.6
−1.65
pull
Entries 76
Mean 817.7
Std Dev 782.2
50
0
−50
−100
−150
−200

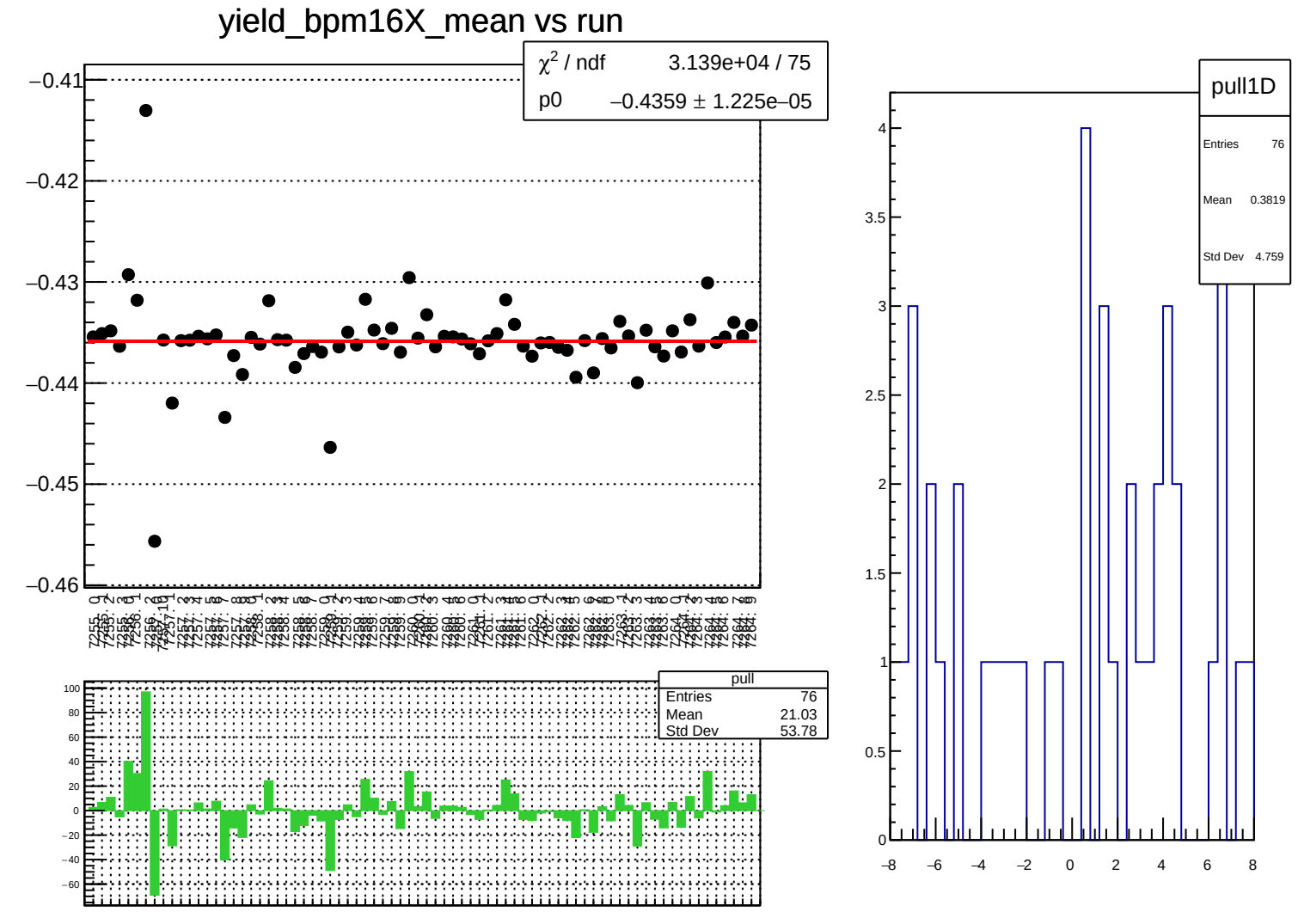

pull1D
Entries 76
Mean −0.8681
Std Dev 5.156
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

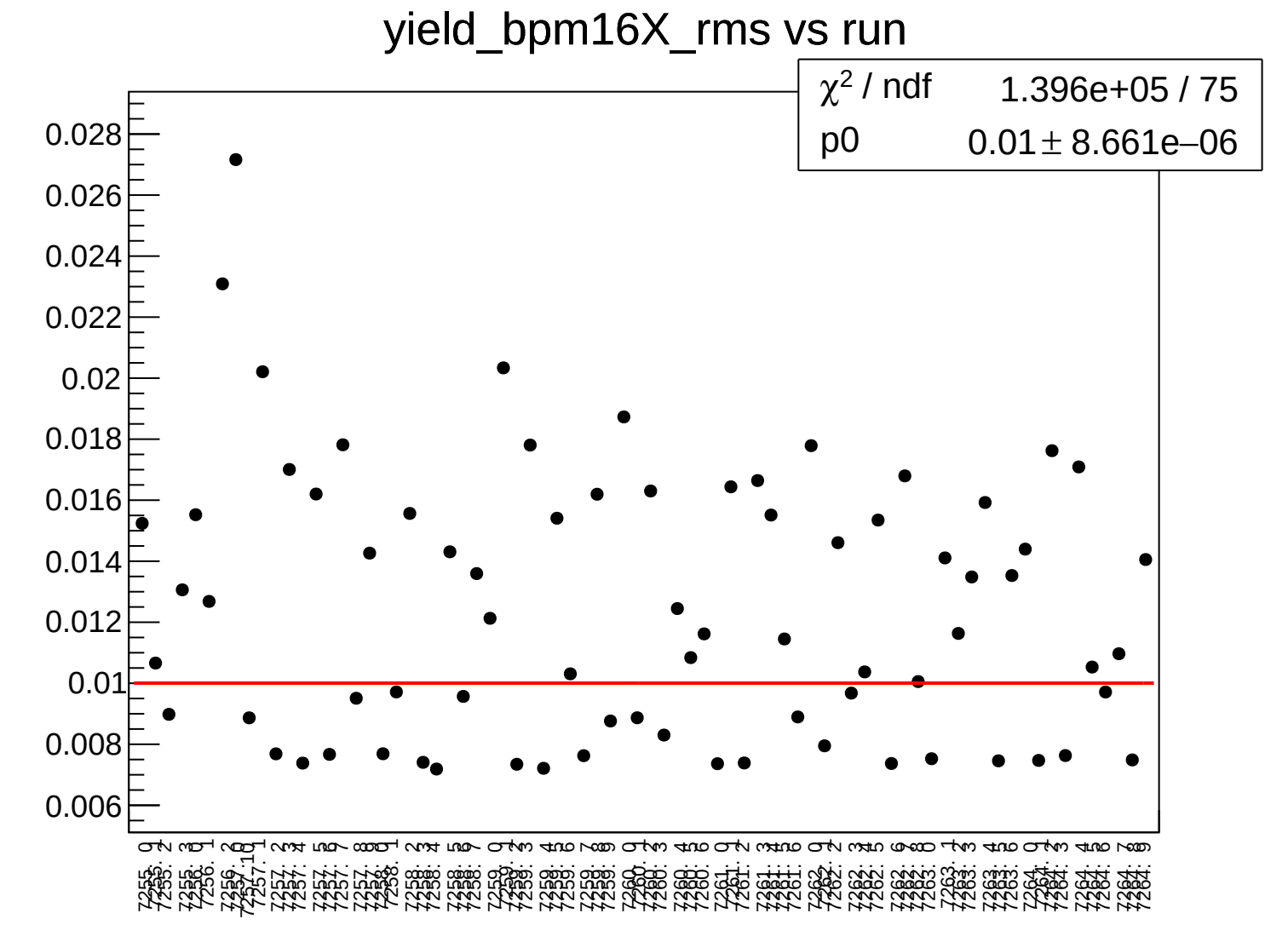

yield_bpm12X_rms vs run
χ² / ndf 1.05e+05 / 75
p0 0.03556 ± 3.04e−05
0.12
0.1
0.08
0.06
0.04
0.02

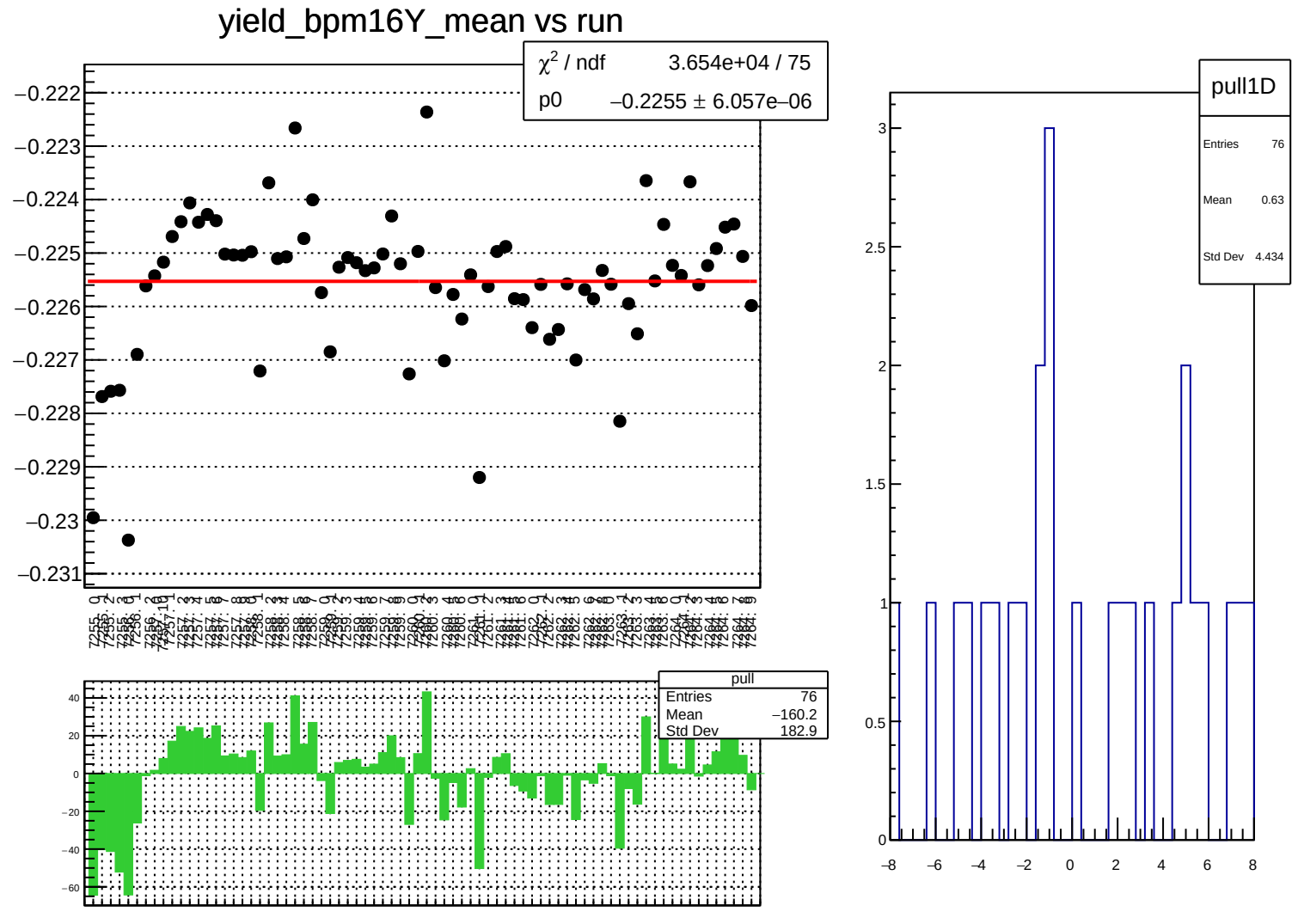

yield_bpm12Y_mean vs run
χ² / ndf 1.852e+05 / 75
p0 0.7543 ± 9.854e−06
pull
Entries 76
Mean 312.5
Std Dev 280.4

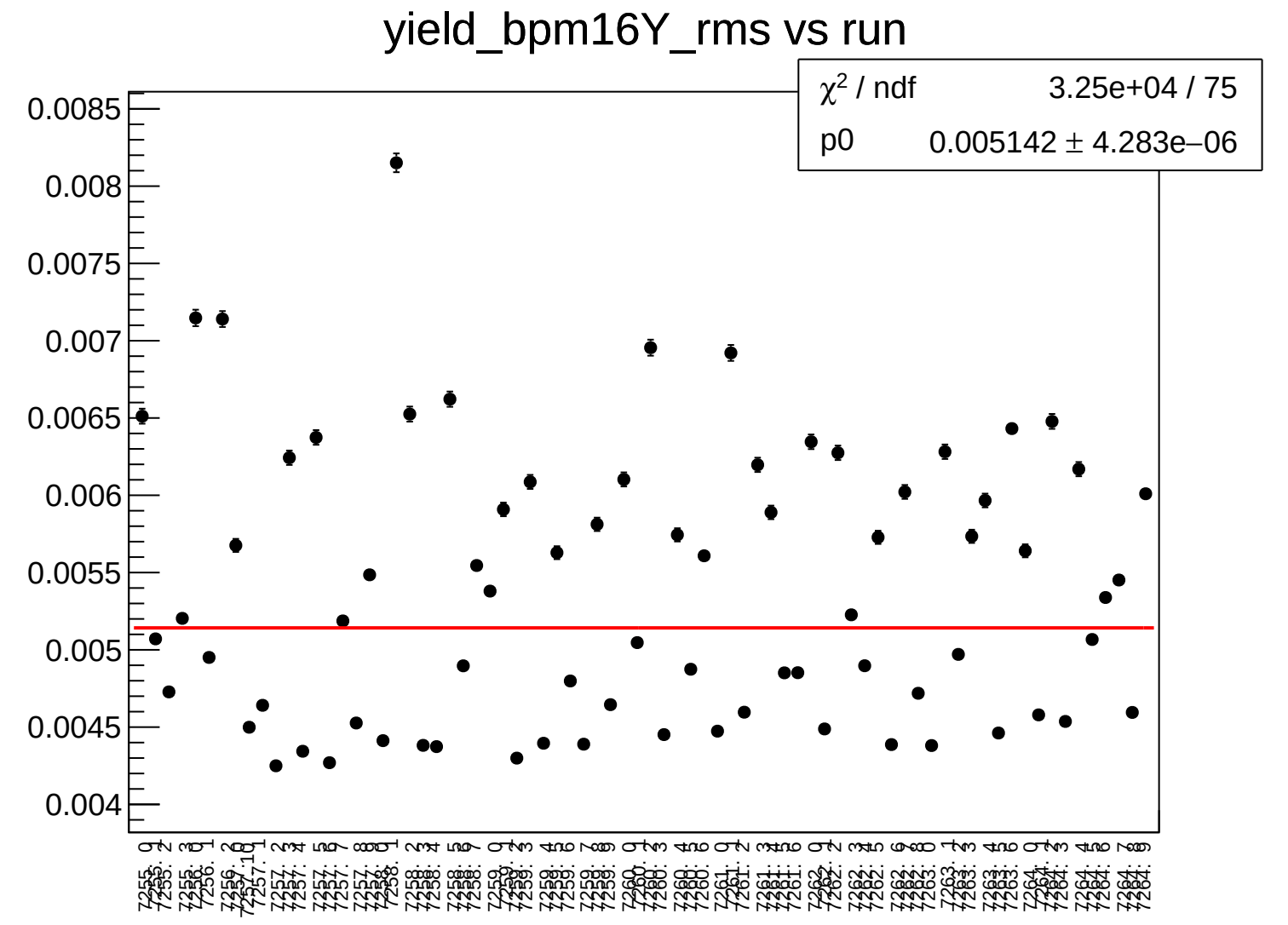

pull1D
Entries 76
Mean −1.697
Std Dev 3.983

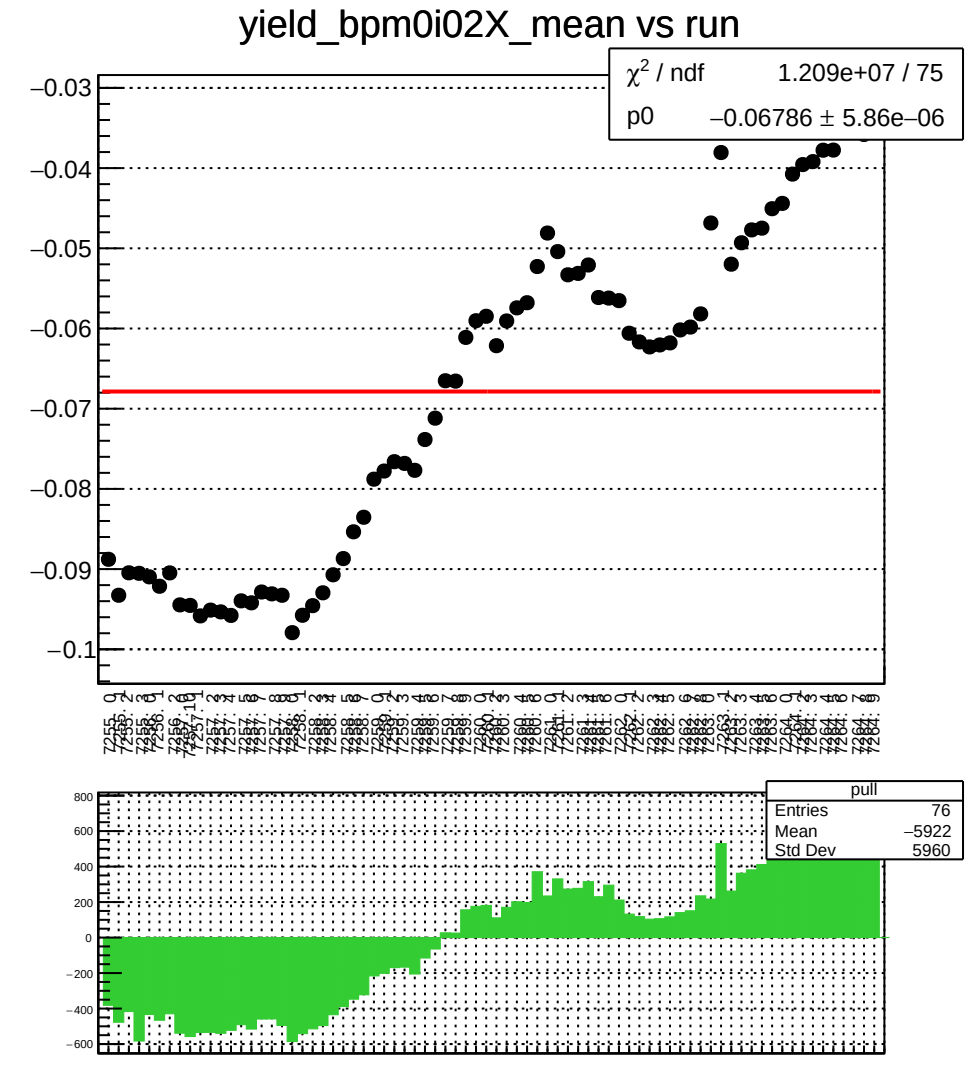

yield_bpm12Y_rms vs run
χ² / ndf 3.079e+04 / 75
p0 0.008369 ± 6.967e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

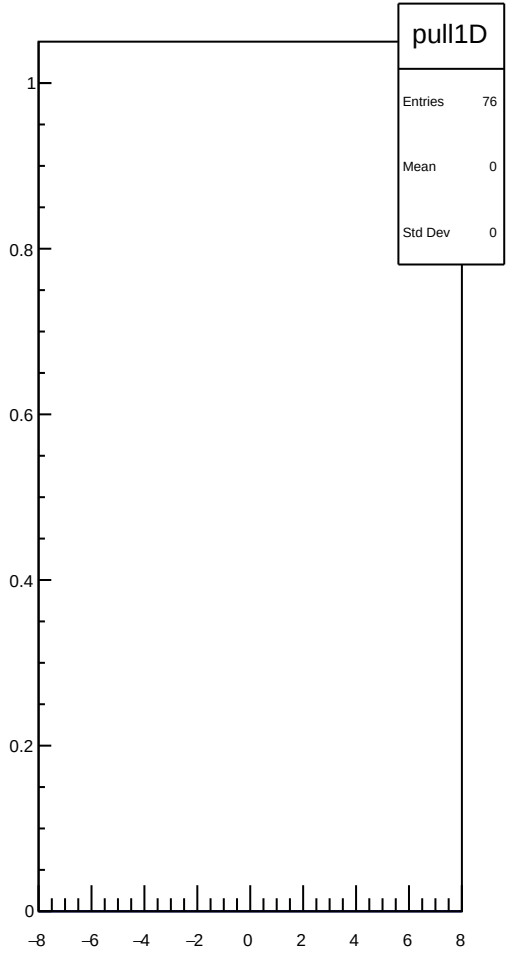

yield_bpm16X_mean vs run
χ² / ndf 3.139e+04 / 75
p0 −0.4359 ± 1.225e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 76
Mean 21.03
Std Dev 53.78
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 76
Mean 0.3819
Std Dev 4.759
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

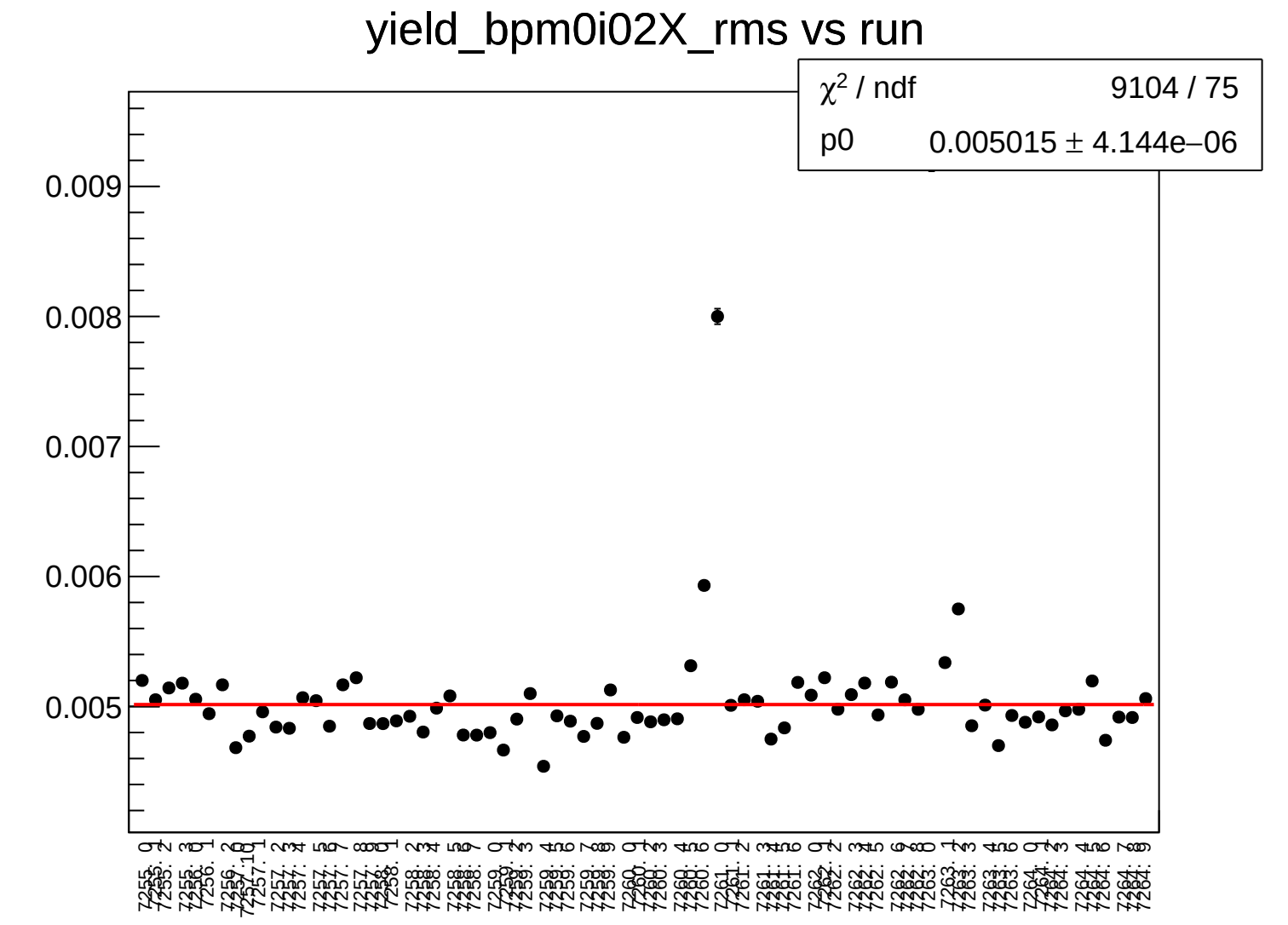

yield_bpm16X_rms vs run
χ² / ndf 1.396e+05 / 75
p0 0.01 ± 8.661e–06
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

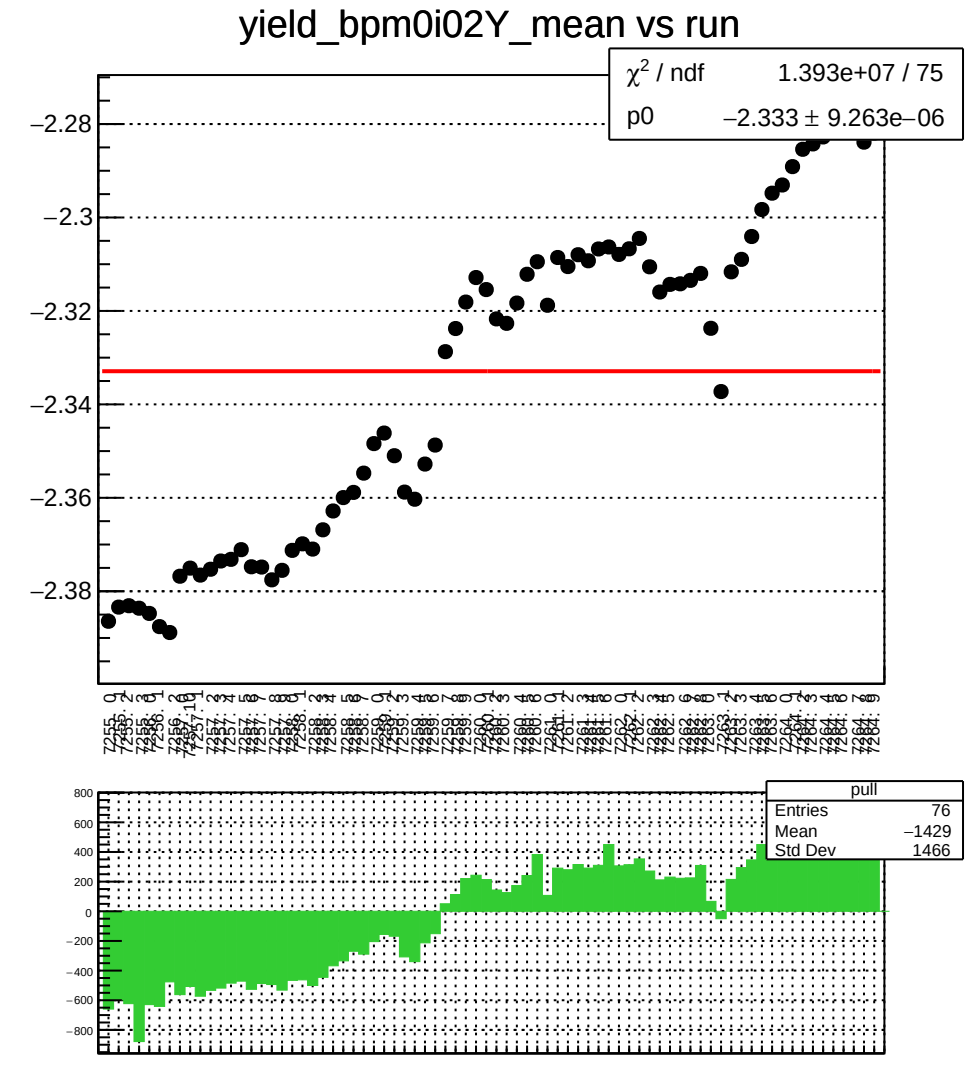

yield_bpm16Y_mean vs run
χ² / ndf 3.654e+04 / 75
p0 −0.2255 ± 6.057e−06
−0.222
−0.223
−0.224
−0.225
−0.226
−0.227
−0.228
−0.229
−0.23
−0.231
pull
Entries 76
Mean −160.2
Std Dev 182.9
40
20
0
−20
−40
−60
pull1D
Entries 76
Mean 0.63
Std Dev 4.434
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

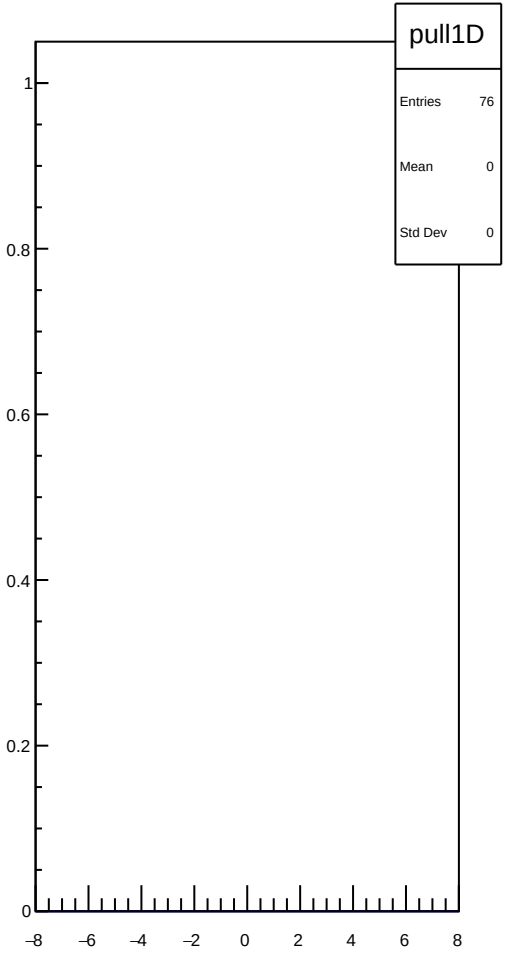

yield_bpm16Y_rms vs run
χ² / ndf 3.25e+04 / 75
p0 0.005142 ± 4.283e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004

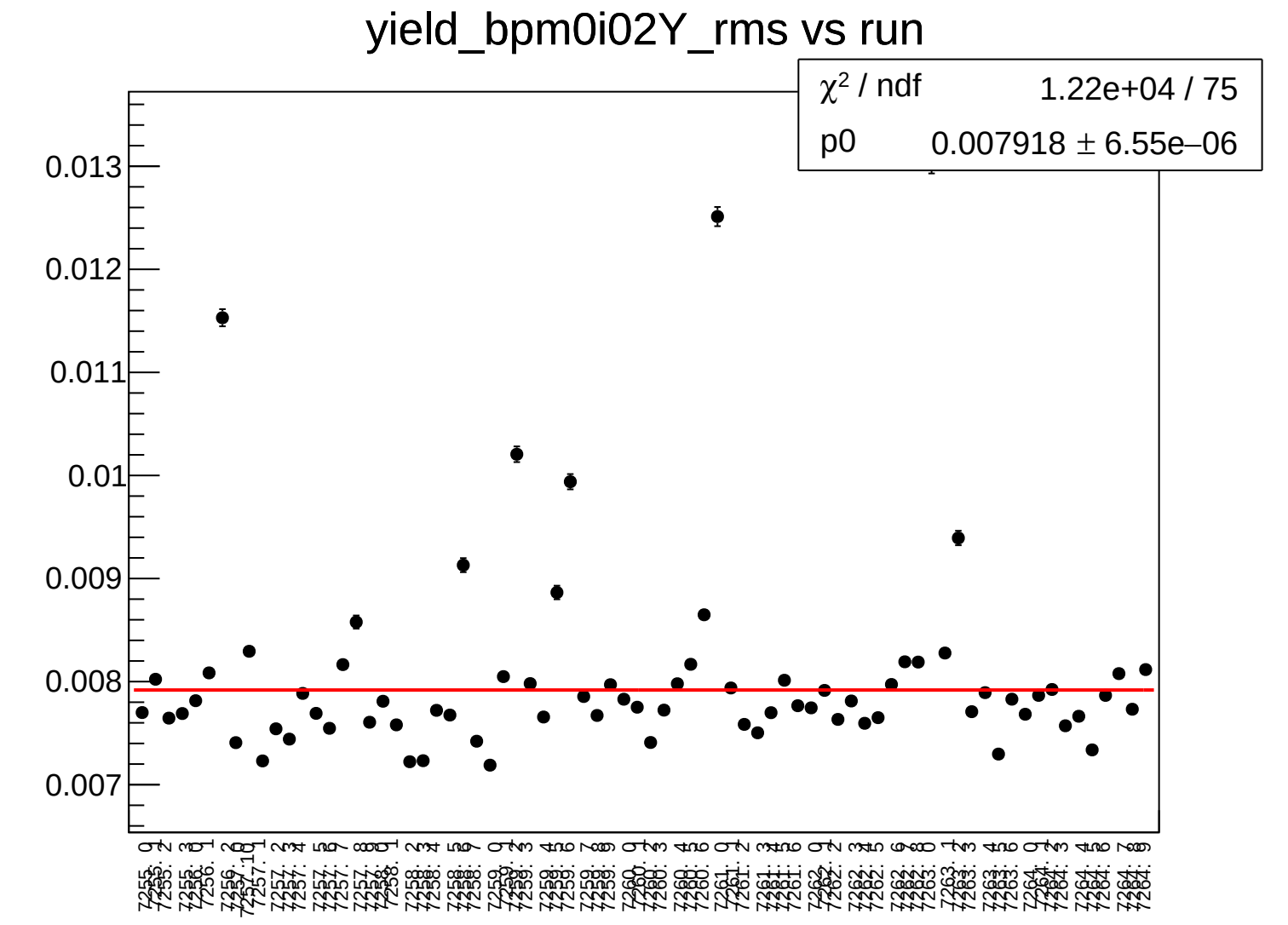

yield_bpm0i02X_mean vs run
χ² / ndf 1.209e+07 / 75
p0 −0.06786 ± 5.86e−06
pull
Entries 76
Mean −5922
Std Dev 5960

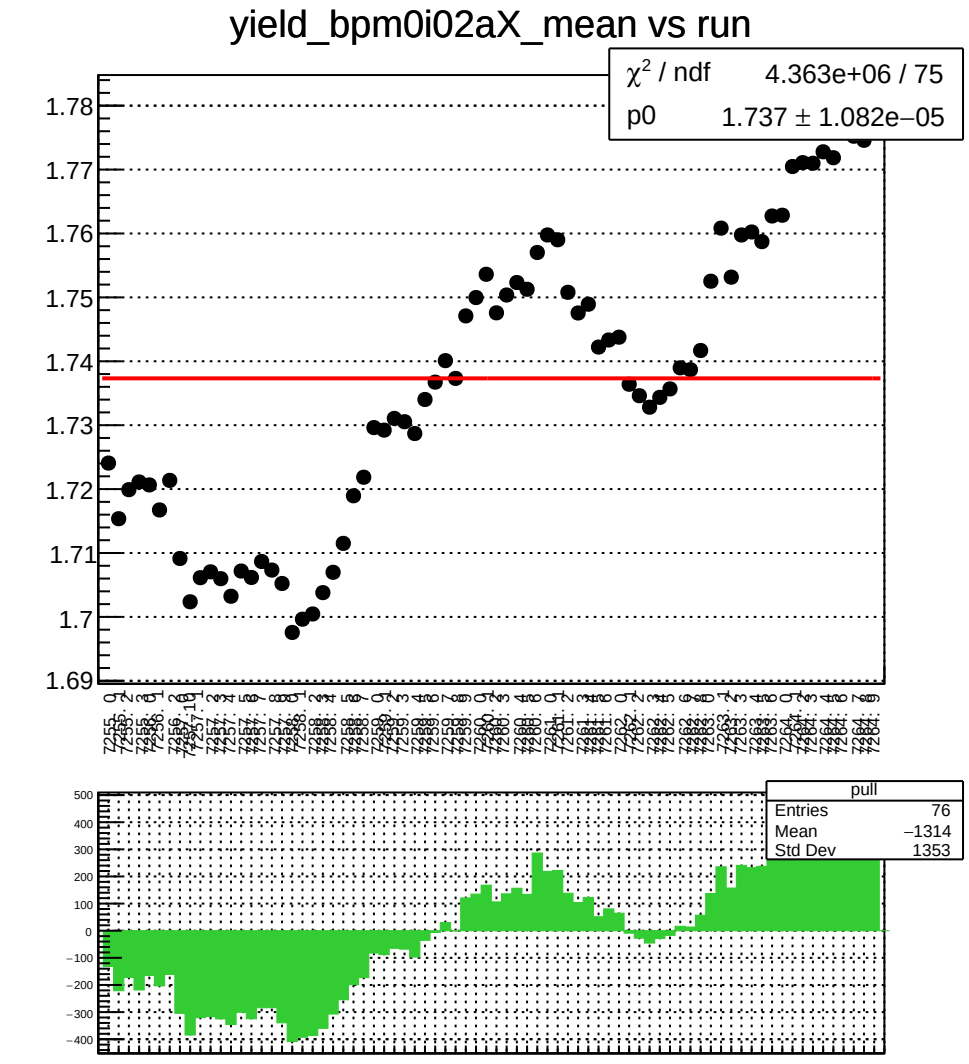

pull1D
Entries 76
Mean 0
Std Dev 0

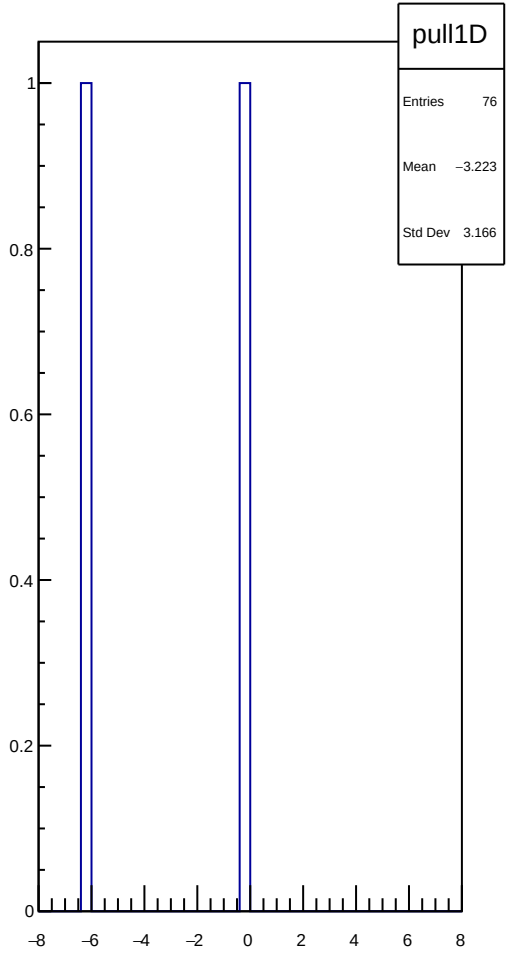

yield_bpm0i02X_rms vs run
χ² / ndf 9104 / 75
p0 0.005015 ± 4.144e−06
0.009
0.008
0.007
0.006
0.005

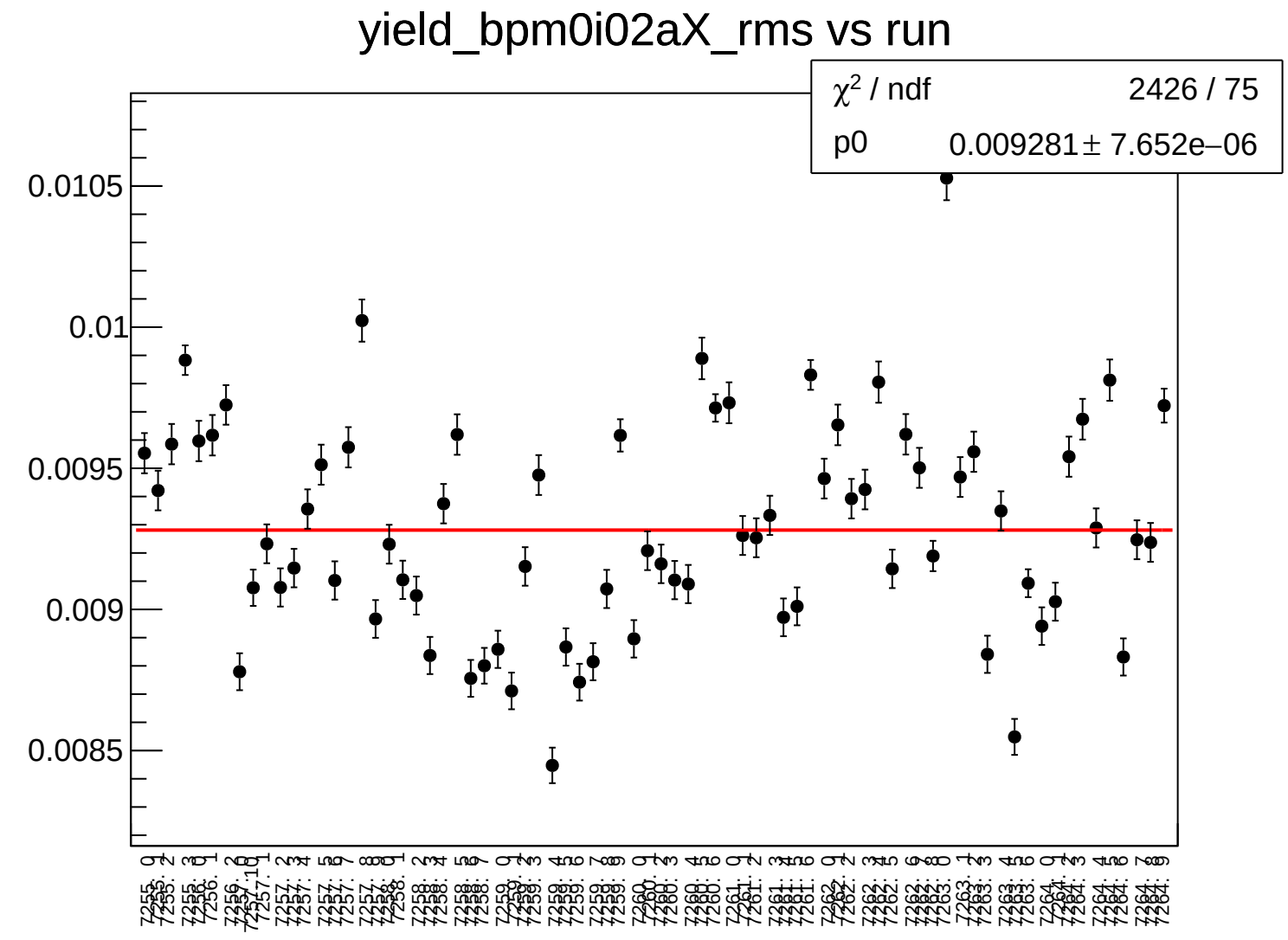

yield_bpm0i02Y_mean vs run
χ² / ndf 1.393e+07 / 75
p0 −2.333 ± 9.263e−06
−2.28
−2.3
−2.32
−2.34
−2.36
−2.38
pull
Entries 76
Mean −1429
Std Dev 1466
800
600
400
200
0
−200
−400
−600
−800

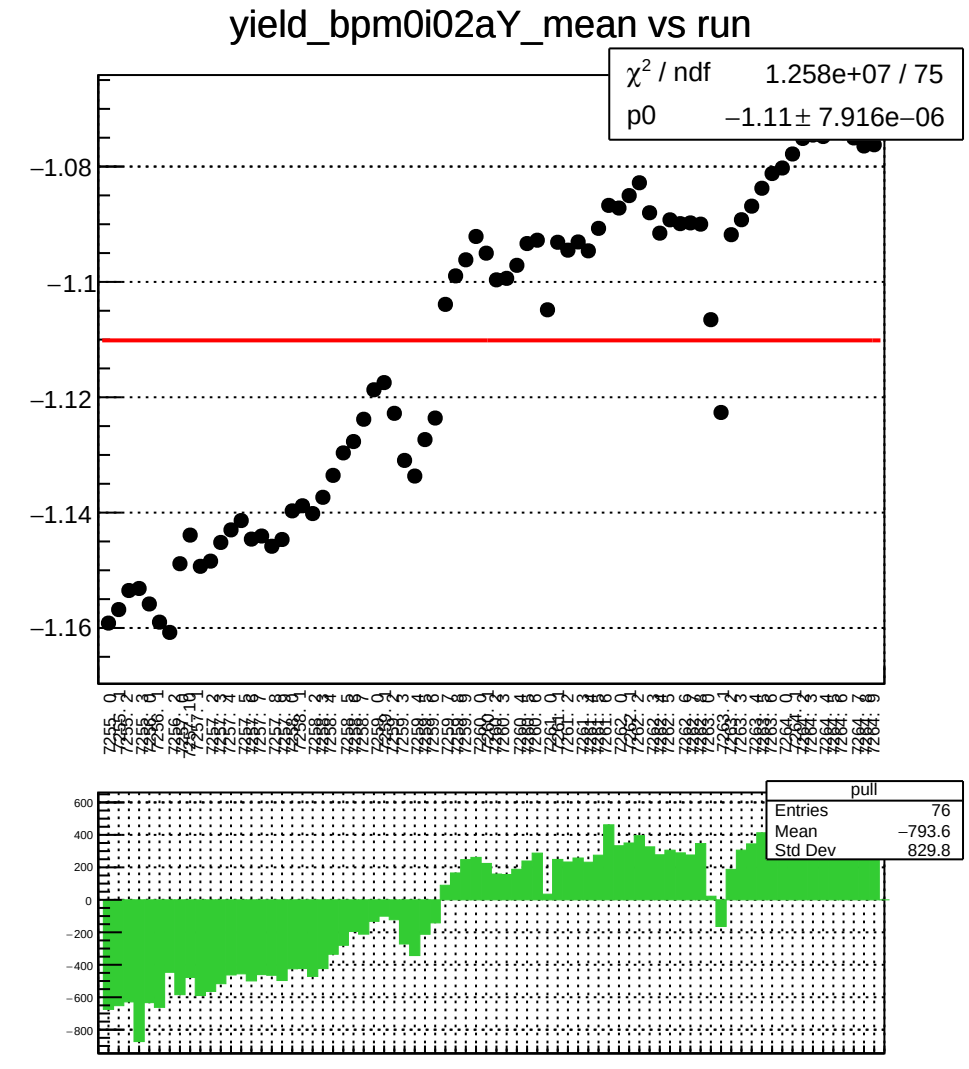

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

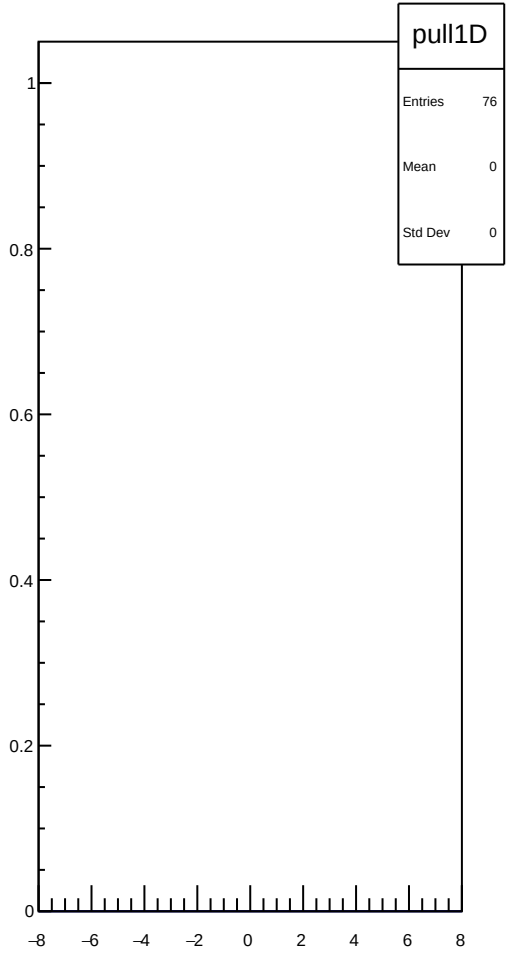

yield_bpm0i02Y_rms vs run
χ² / ndf 1.22e+04 / 75
p0 0.007918 ± 6.55e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007

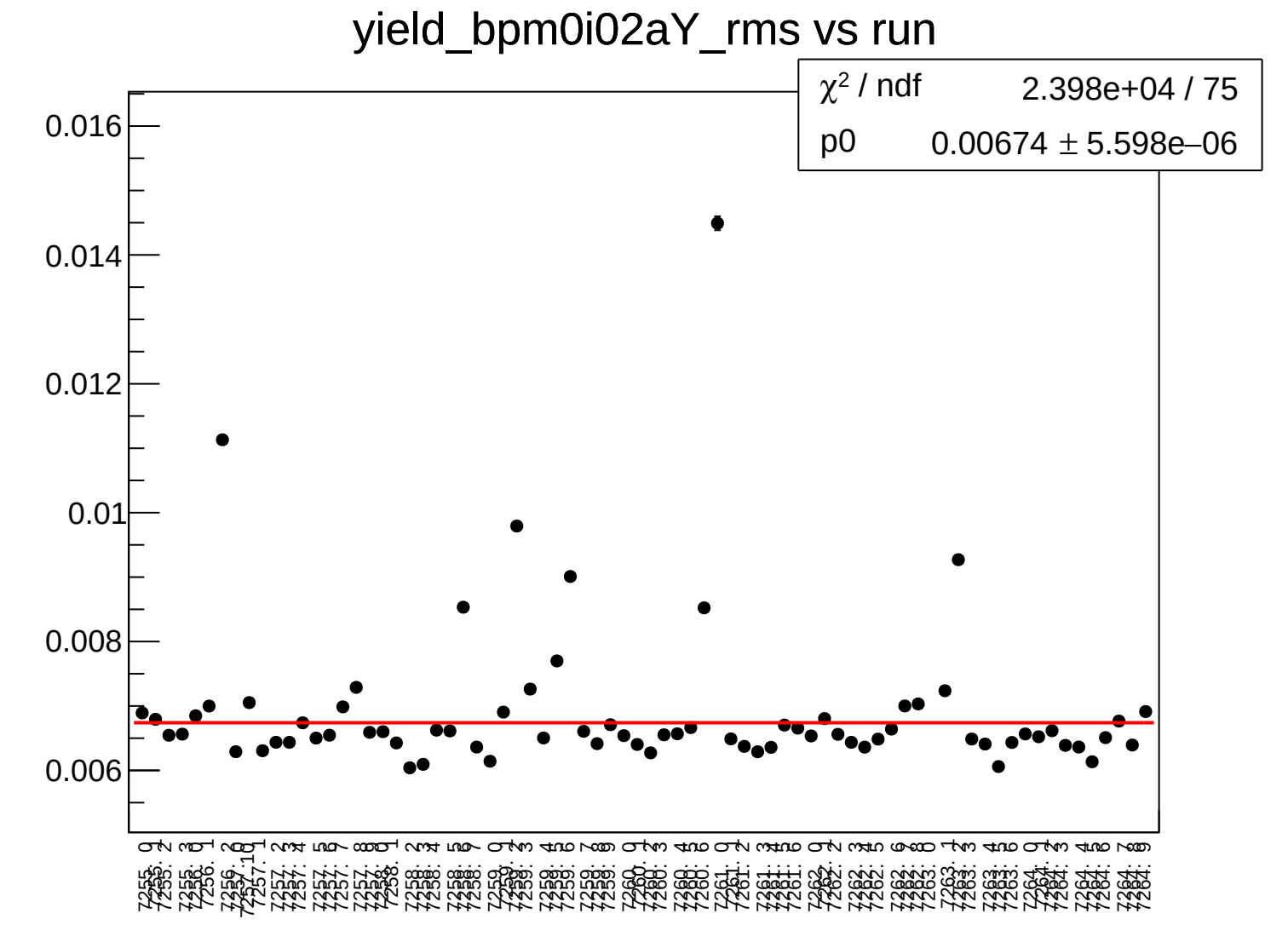

yield_bpm0i02aX_mean vs run
χ² / ndf 4.363e+06 / 75
p0 1.737 ± 1.082e−05
pull
Entries 76
Mean −1314
Std Dev 1353

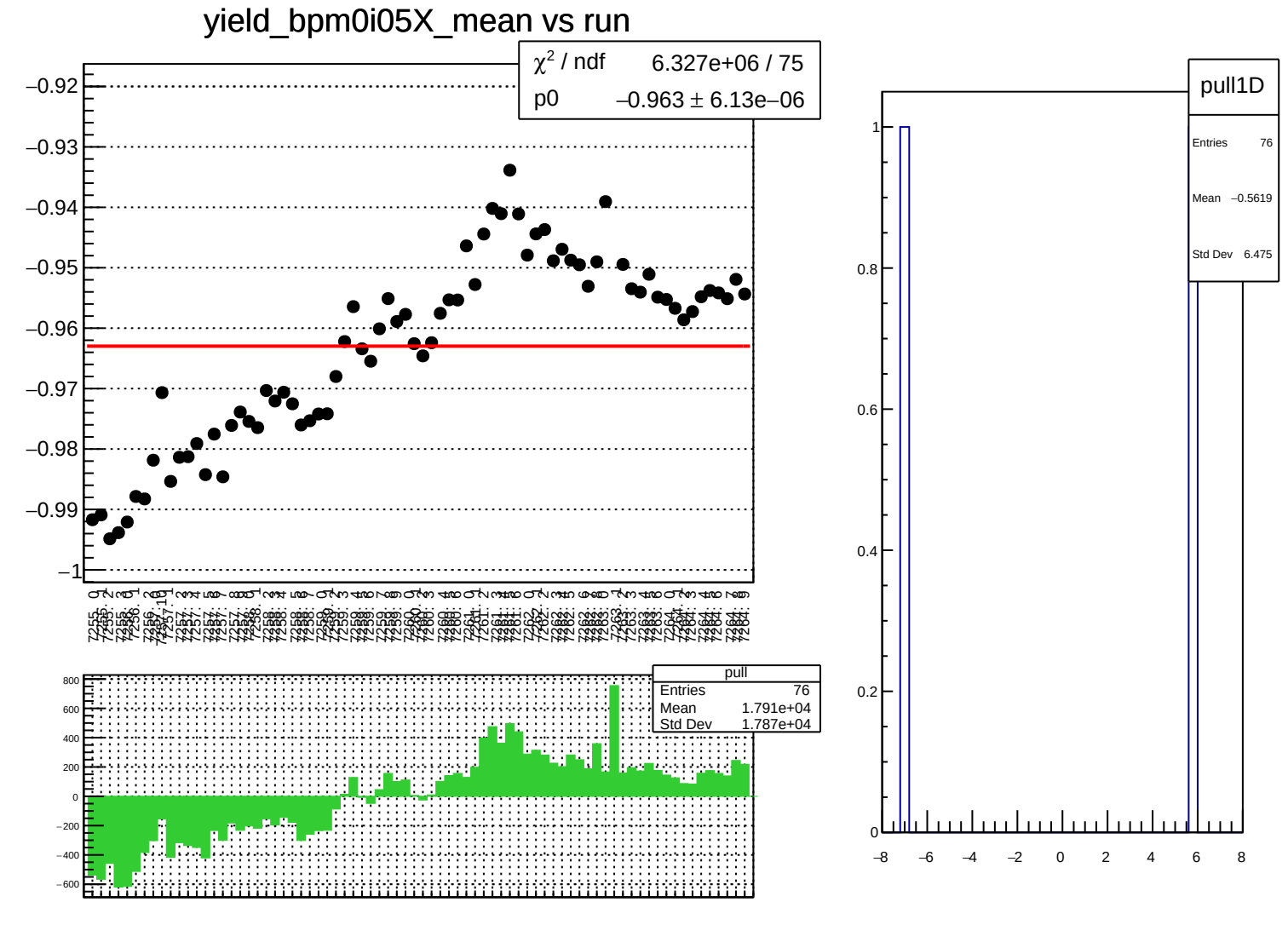

pull1D
Entries 76
Mean −3.223
Std Dev 3.166

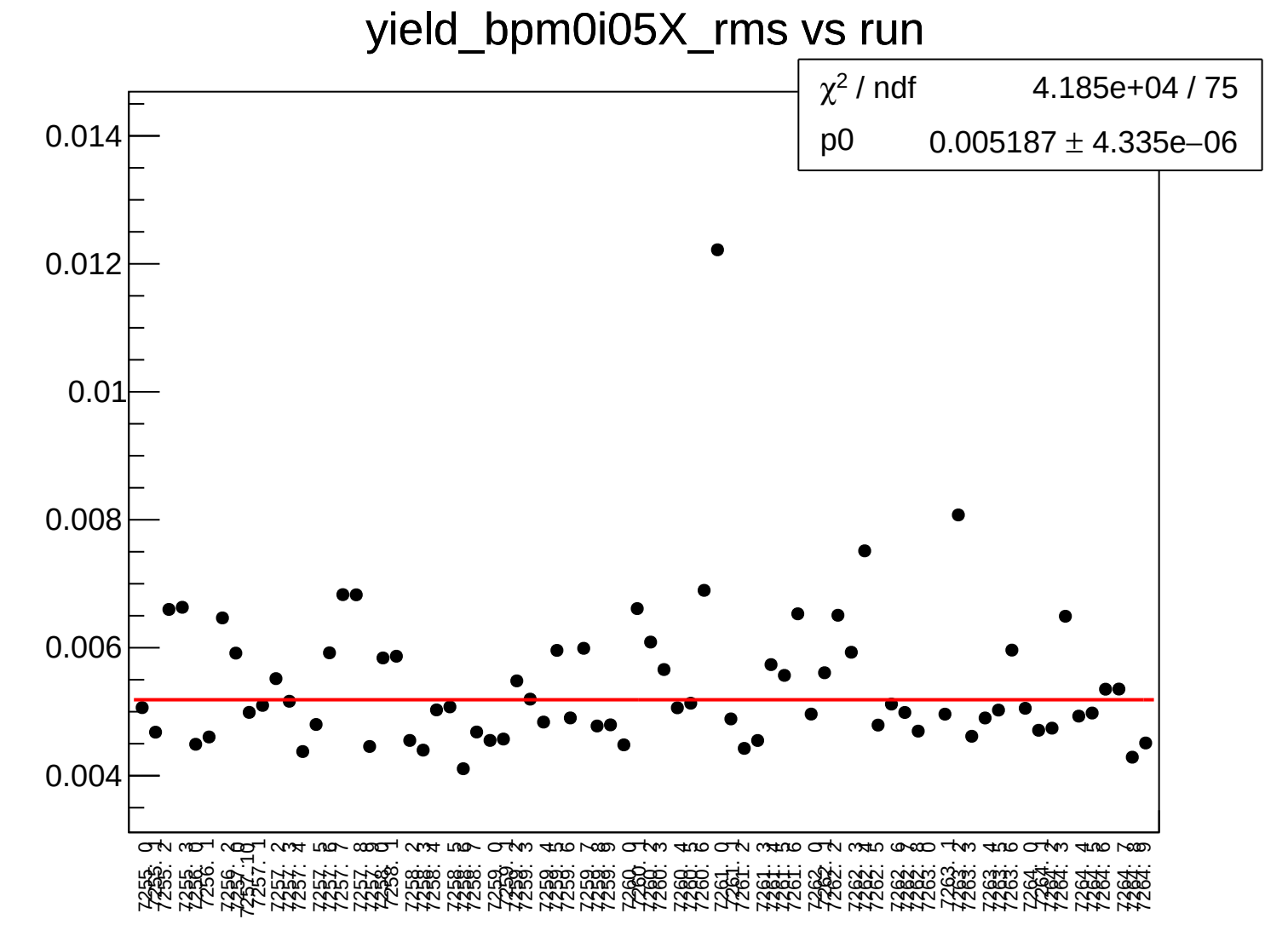

yield_bpm0i02aX_rms vs run
χ² / ndf 2426 / 75
p0 0.009281 ± 7.652e−06
0.0105
0.01
0.0095
0.009
0.0085

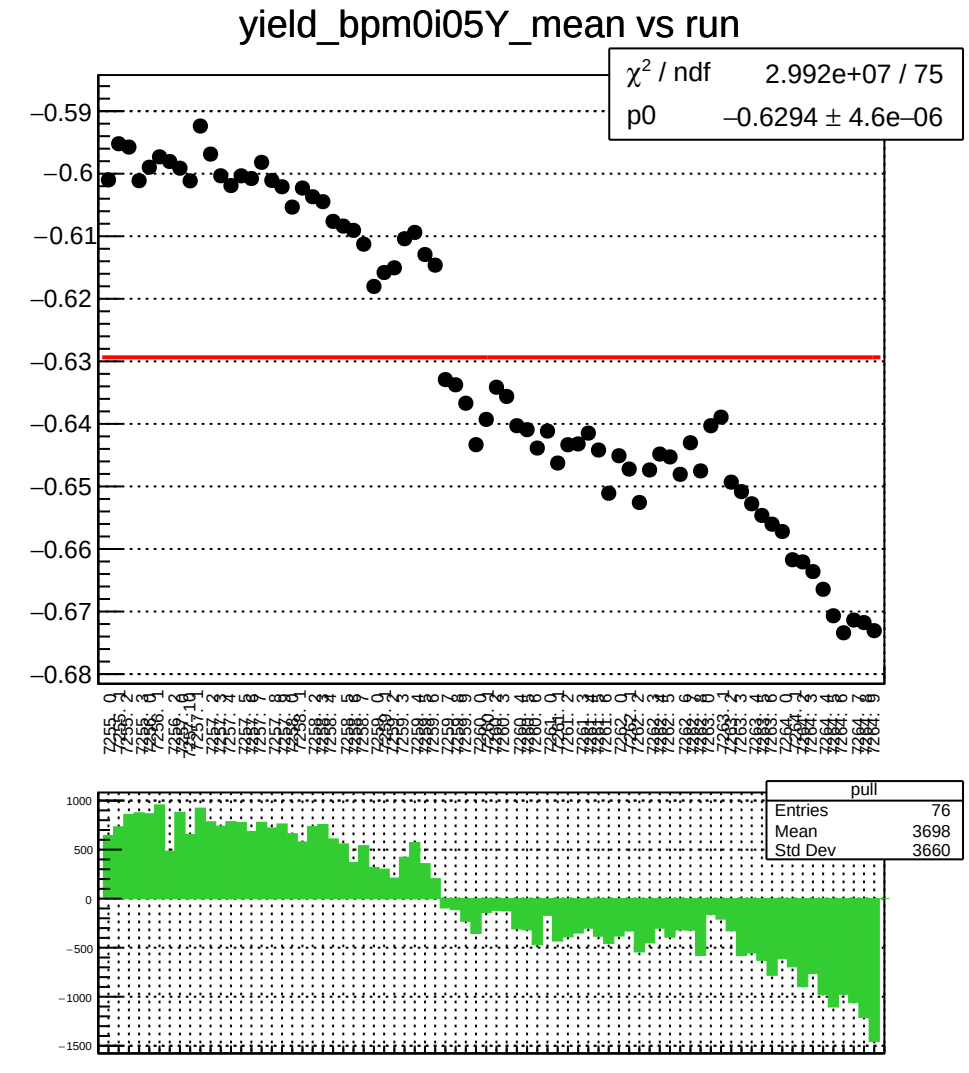

yield_bpm0i02aY_mean vs run
χ² / ndf 1.258e+07 / 75
p0 −1.11 ± 7.916e−06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 76
Mean −793.6
Std Dev 829.8
600
400
200
0
−200
−400
−600
−800

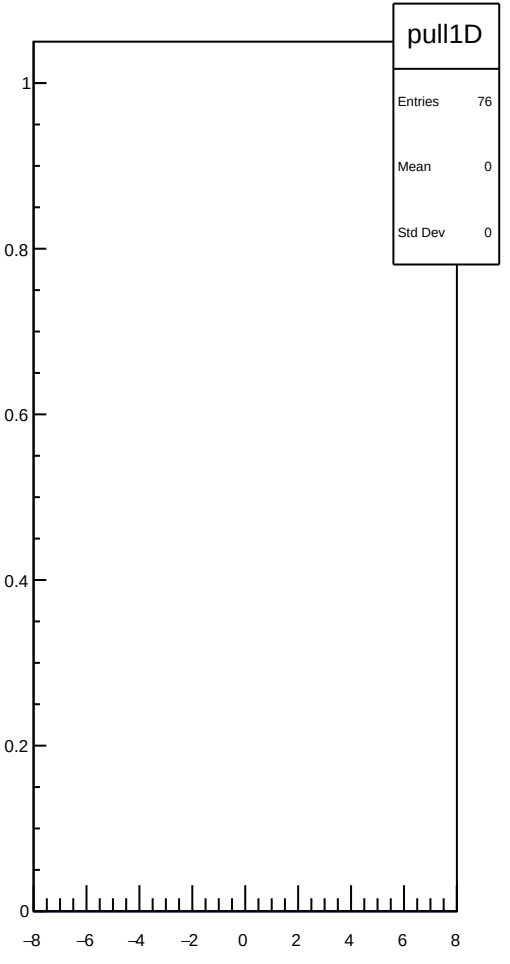

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

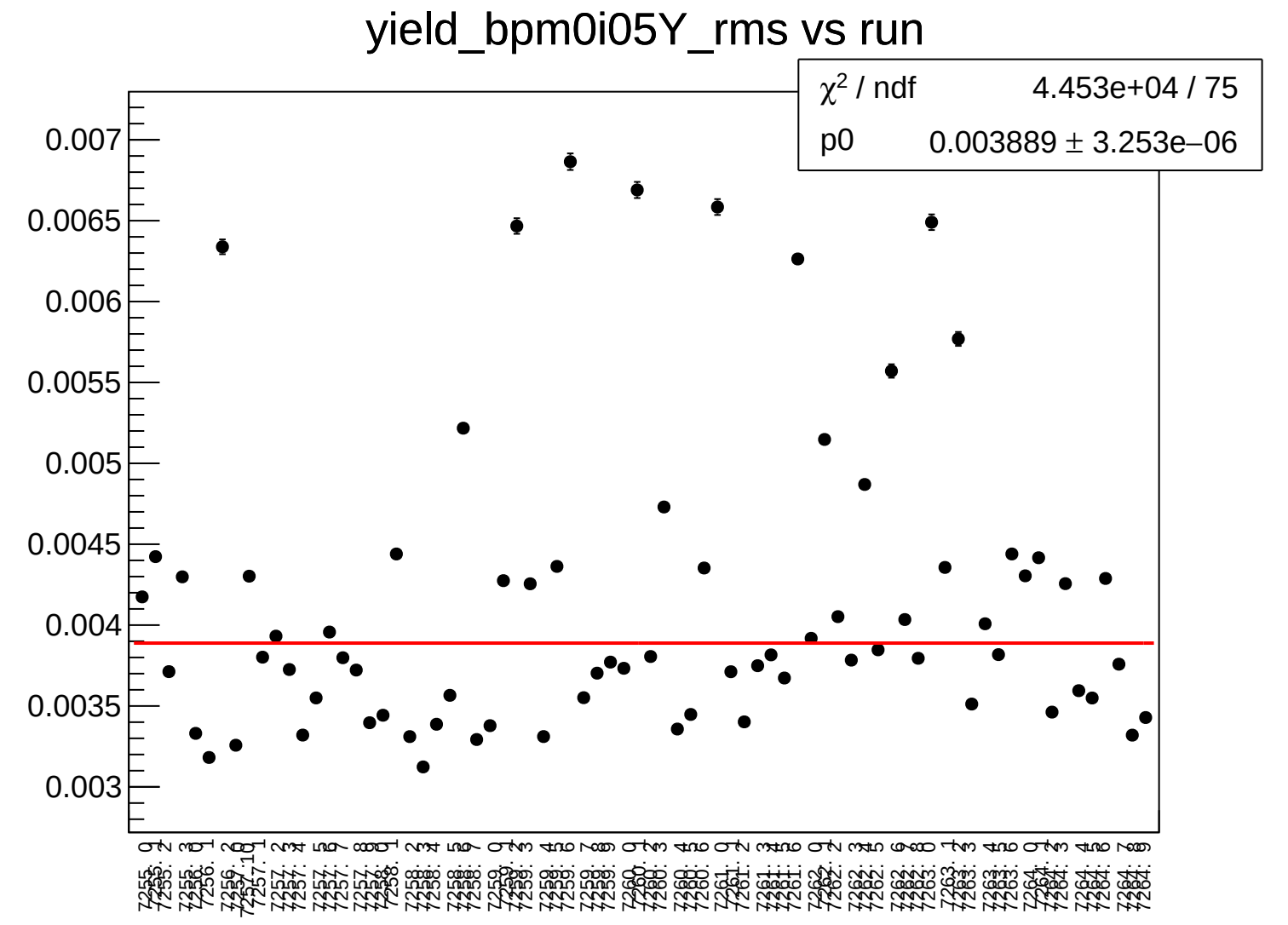

yield_bpm0i02aY_rms vs run
χ² / ndf 2.398e+04 / 75
p0 0.00674 ± 5.598e–06
0.016
0.014
0.012
0.01
0.008
0.006

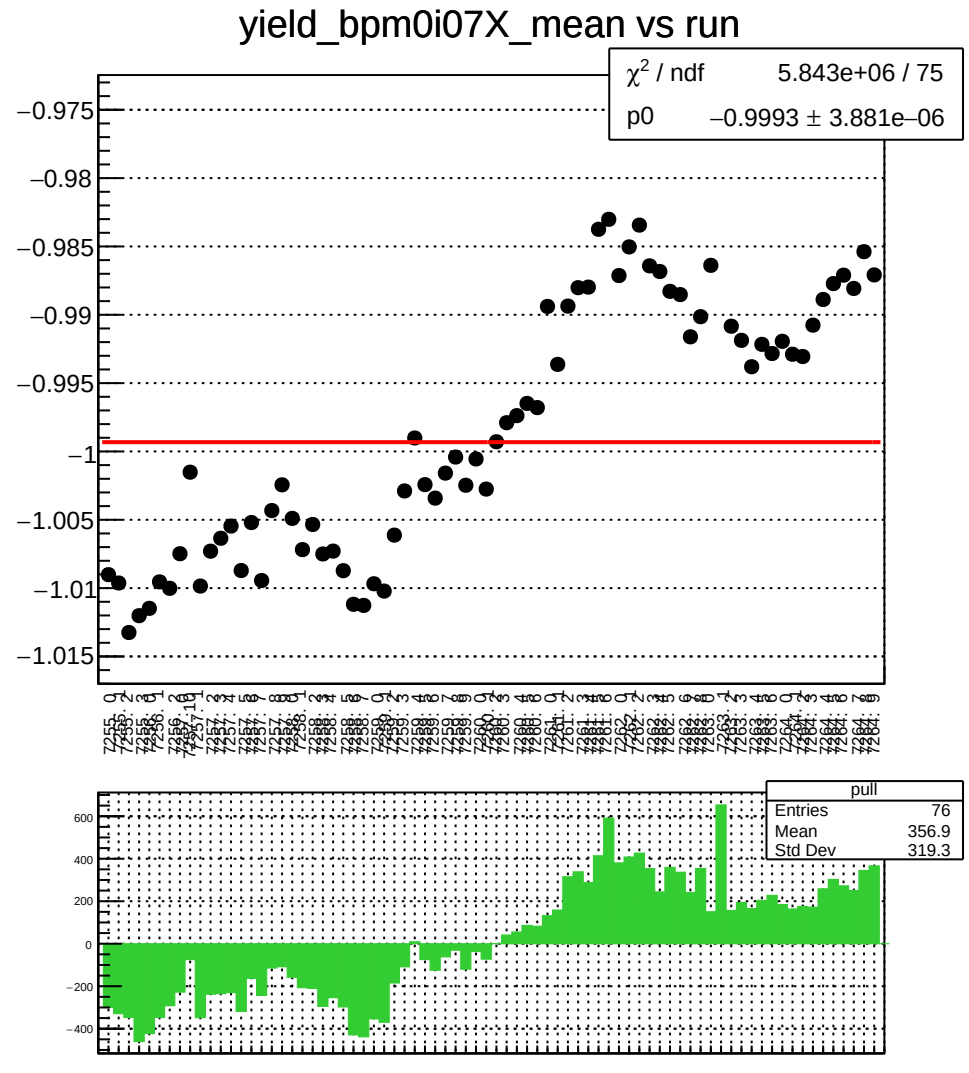

yield_bpm0i05X_mean vs run
χ² / ndf 6.327e+06 / 75
p0 −0.963 ± 6.13e−06
pull
Entries 76
Mean 1.791e+04
Std Dev 1.787e+04
pull1D
Entries 76
Mean −0.5619
Std Dev 6.475

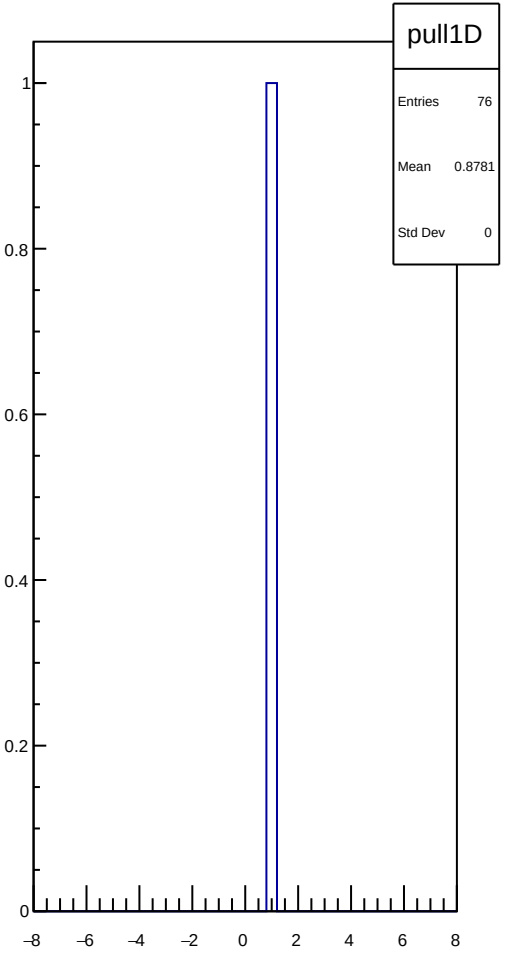

yield_bpm0i05X_rms vs run
χ^2 / ndf 4.185e+04 / 75
p0 0.005187 ± 4.335e−06
0.014
0.012
0.01
0.008
0.006
0.004

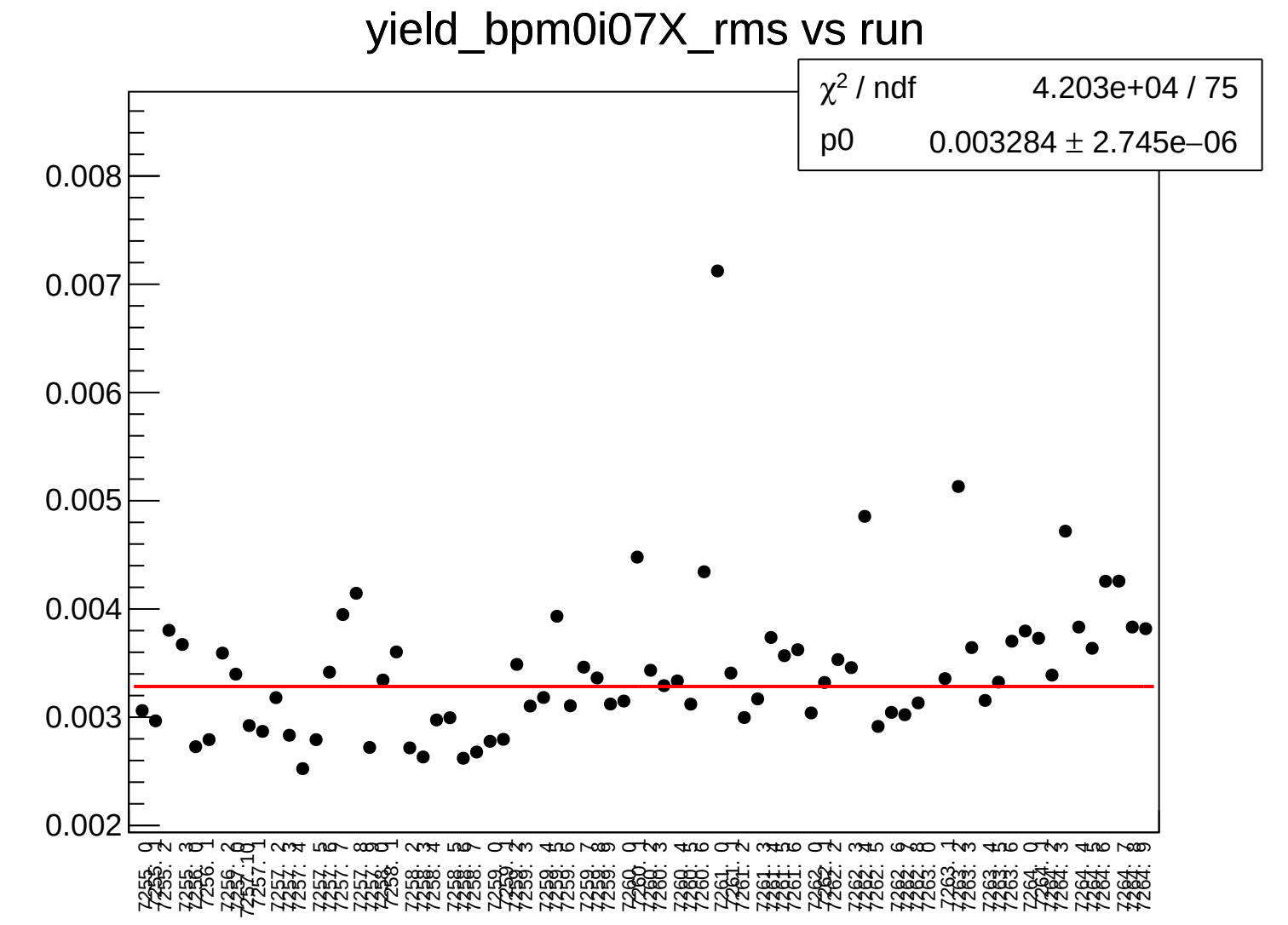

yield_bpm0i05Y_mean vs run
χ² / ndf 2.992e+07 / 75
p0 –0.6294 ± 4.6e–06
–0.59
–0.6
–0.61
–0.62
–0.63
–0.64
–0.65
–0.66
–0.67
–0.68
pull
Entries 76
Mean 3698
Std Dev 3660
1000
500
0
–500
–1000
–1500

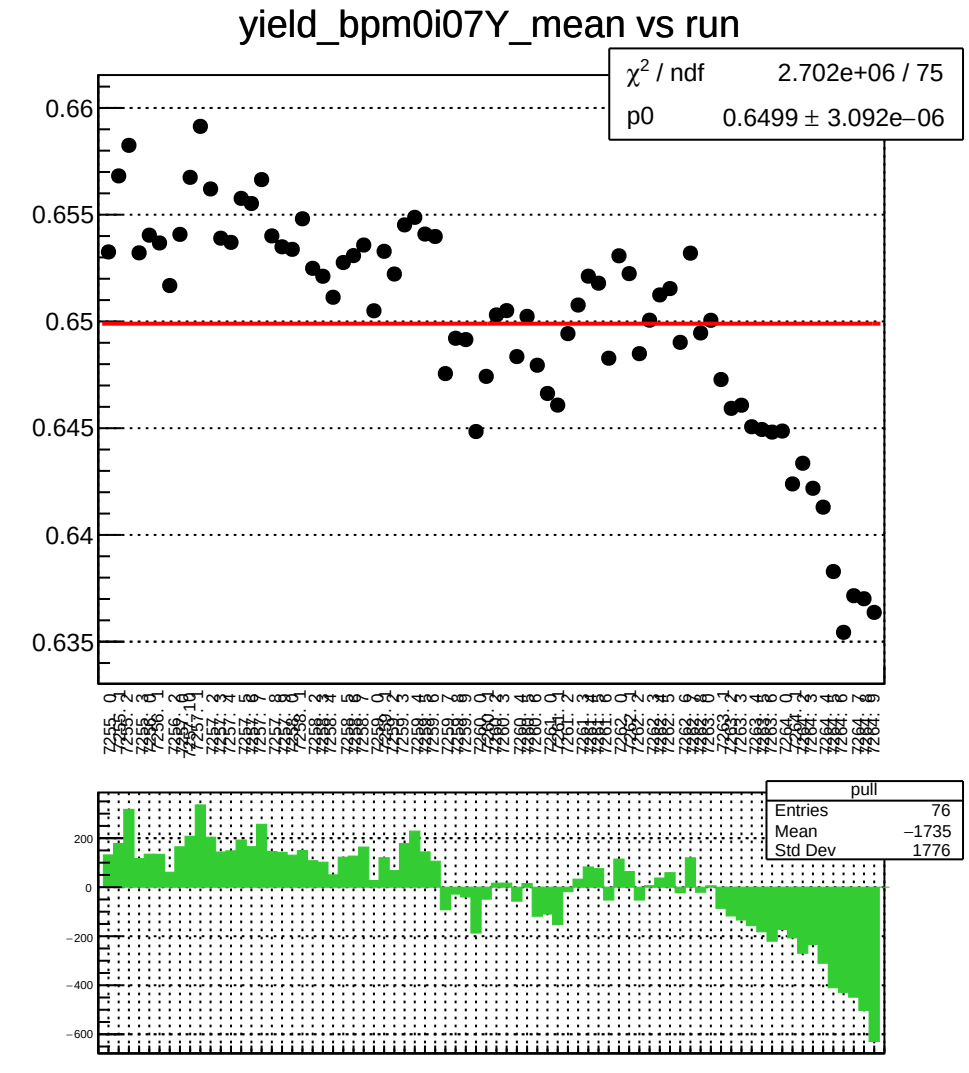

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

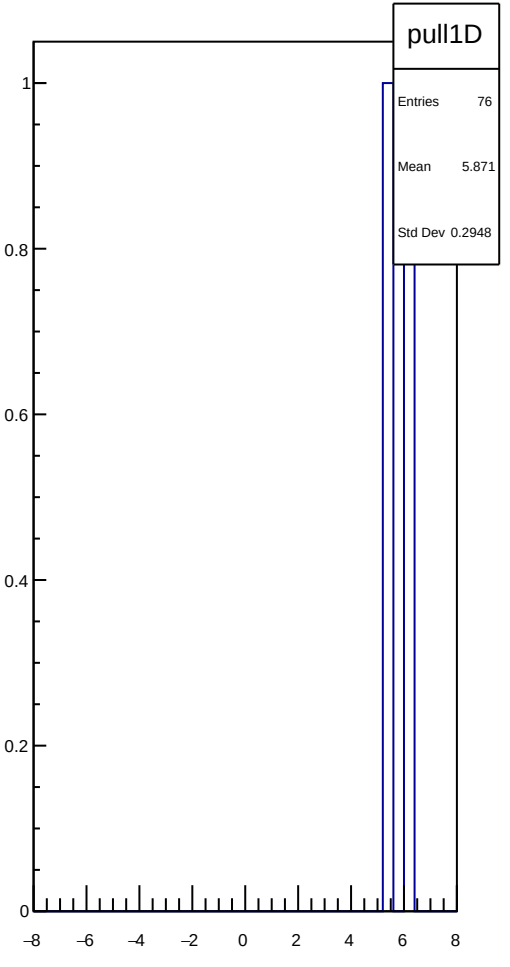

yield_bpm0i05Y_rms vs run
χ² / ndf 4.453e+04 / 75
p0 0.003889 ± 3.253e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

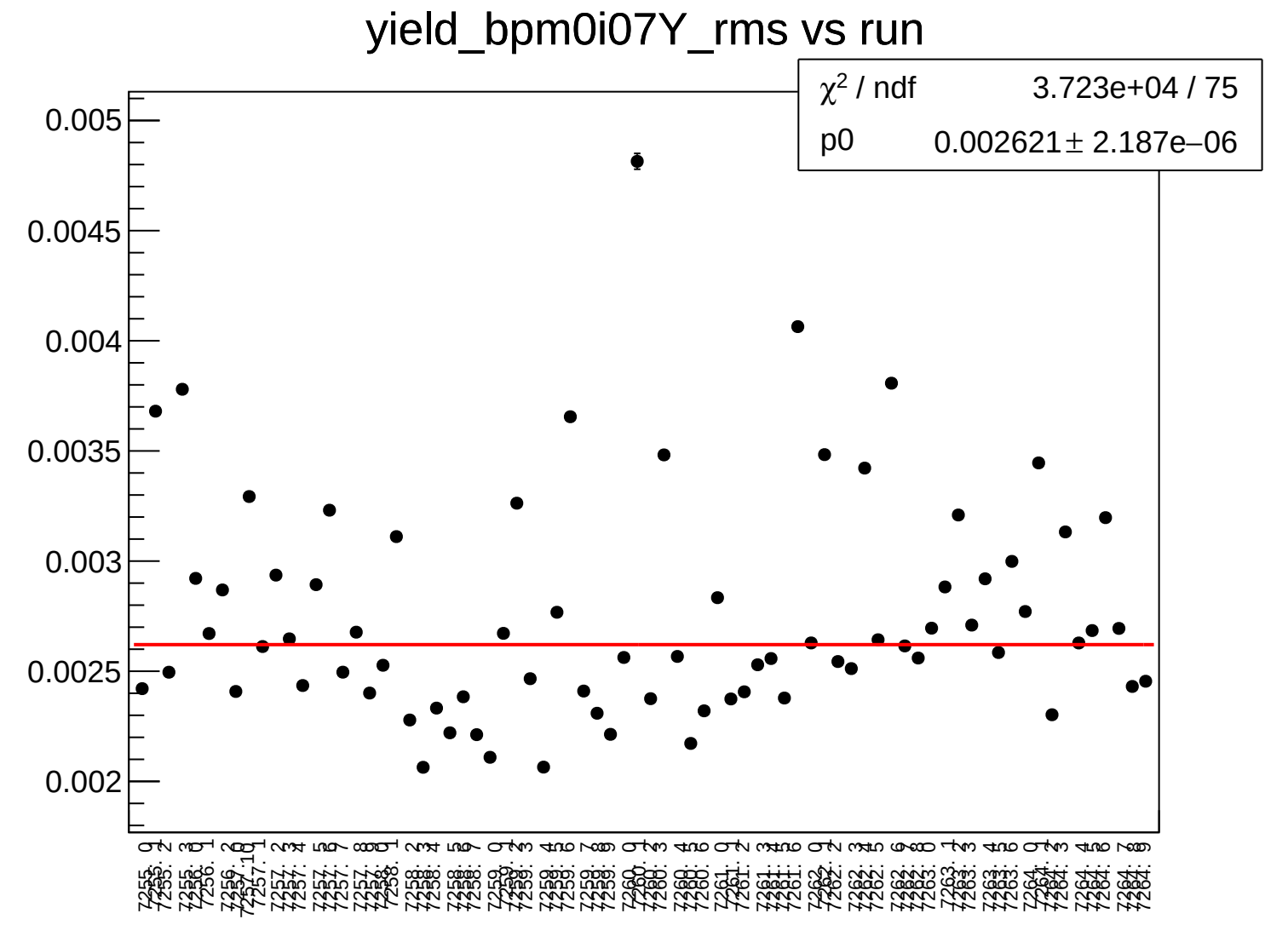

yield_bpm0i07X_mean vs run
χ² / ndf 5.843e+06 / 75
p0 −0.9993 ± 3.881e−06
−0.975
−0.98
−0.985
−0.99
−0.995
−1
−1.005
−1.01
−1.015
pull
Entries 76
Mean 356.9
Std Dev 319.3
600
400
200
0
−200
−400

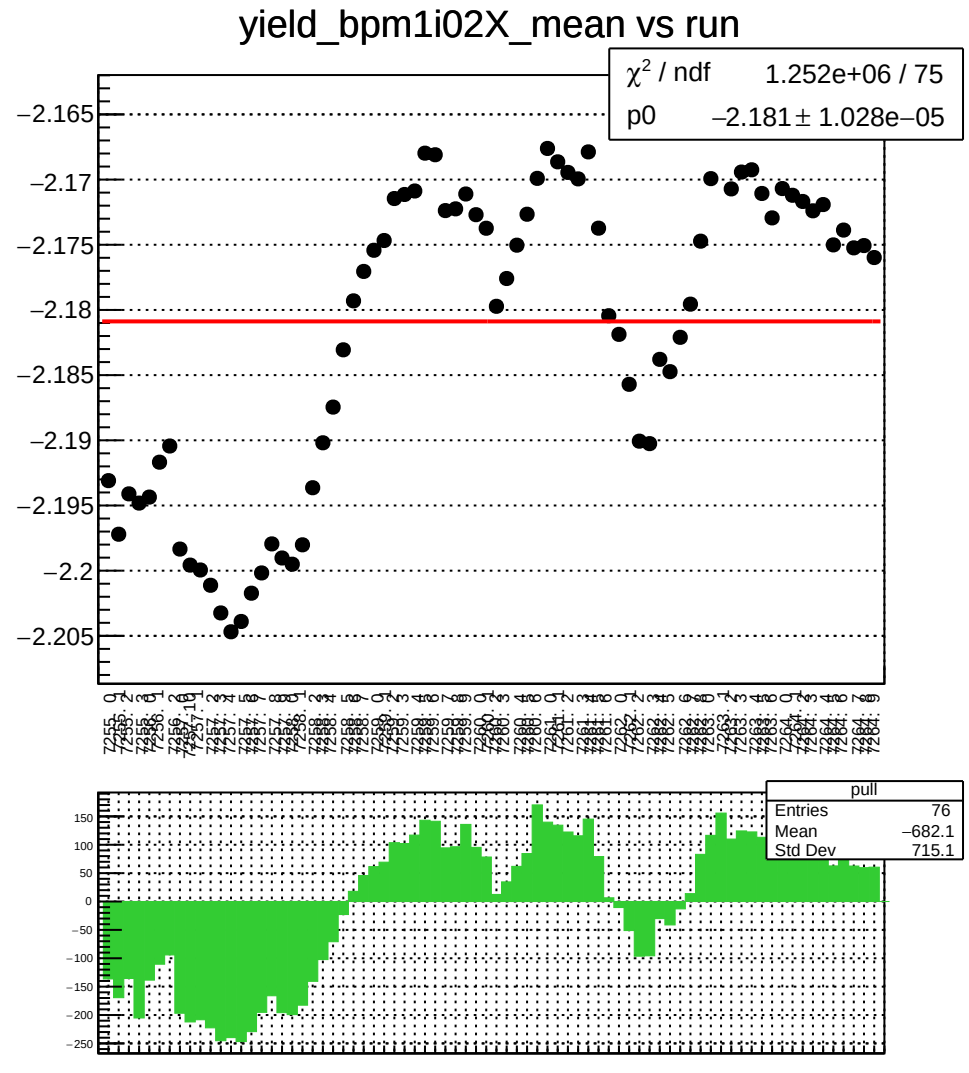

pull1D
Entries 76
Mean 0.8781
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

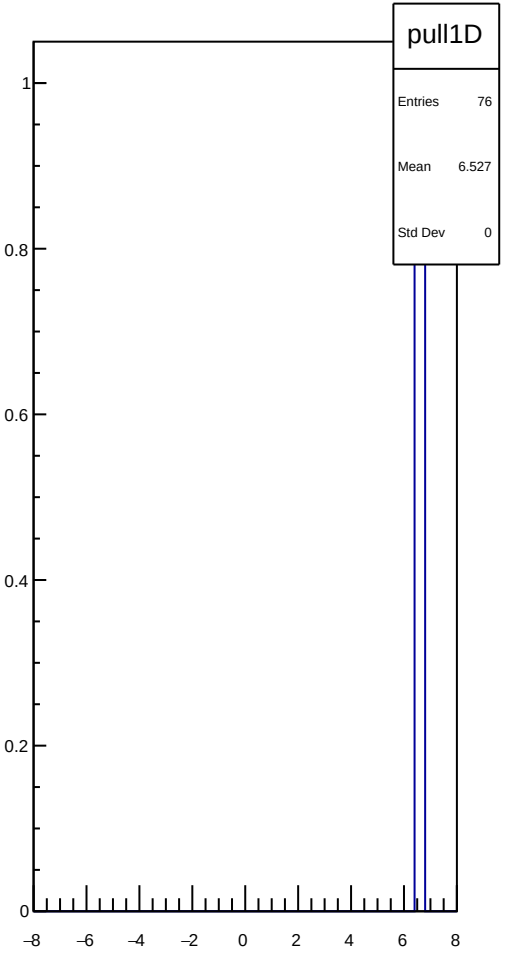

yield_bpm0i07X_rms vs run
χ^2 / ndf 4.203e+04 / 75
p0 0.003284 ± 2.745e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

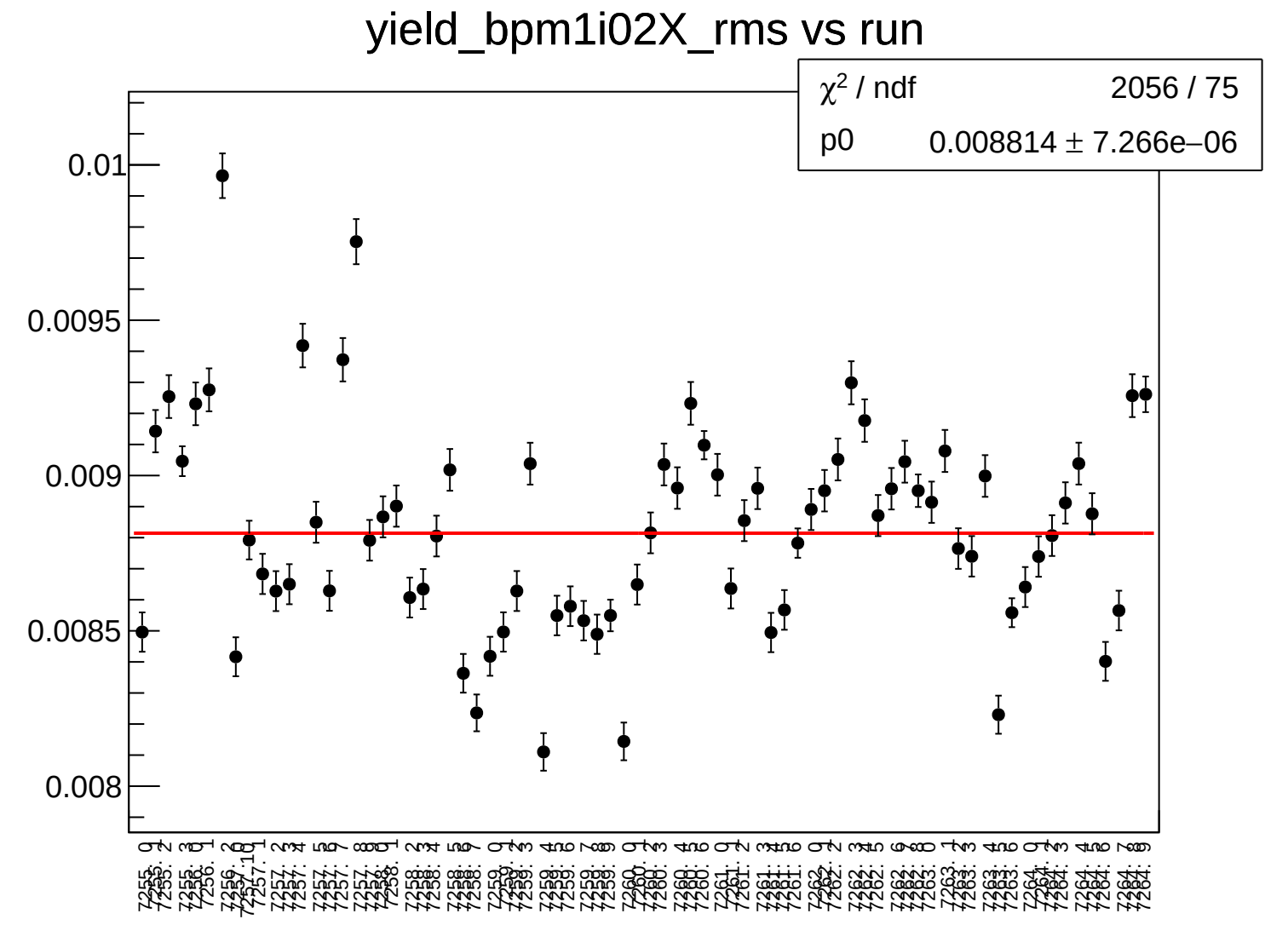

yield_bpm0i07Y_mean vs run
χ² / ndf 2.702e+06 / 75
p0 0.6499 ± 3.092e−06
0.66
0.655
0.65
0.645
0.64
0.635
pull
Entries 76
Mean −1735
Std Dev 1776
200
0
−200
−400
−600

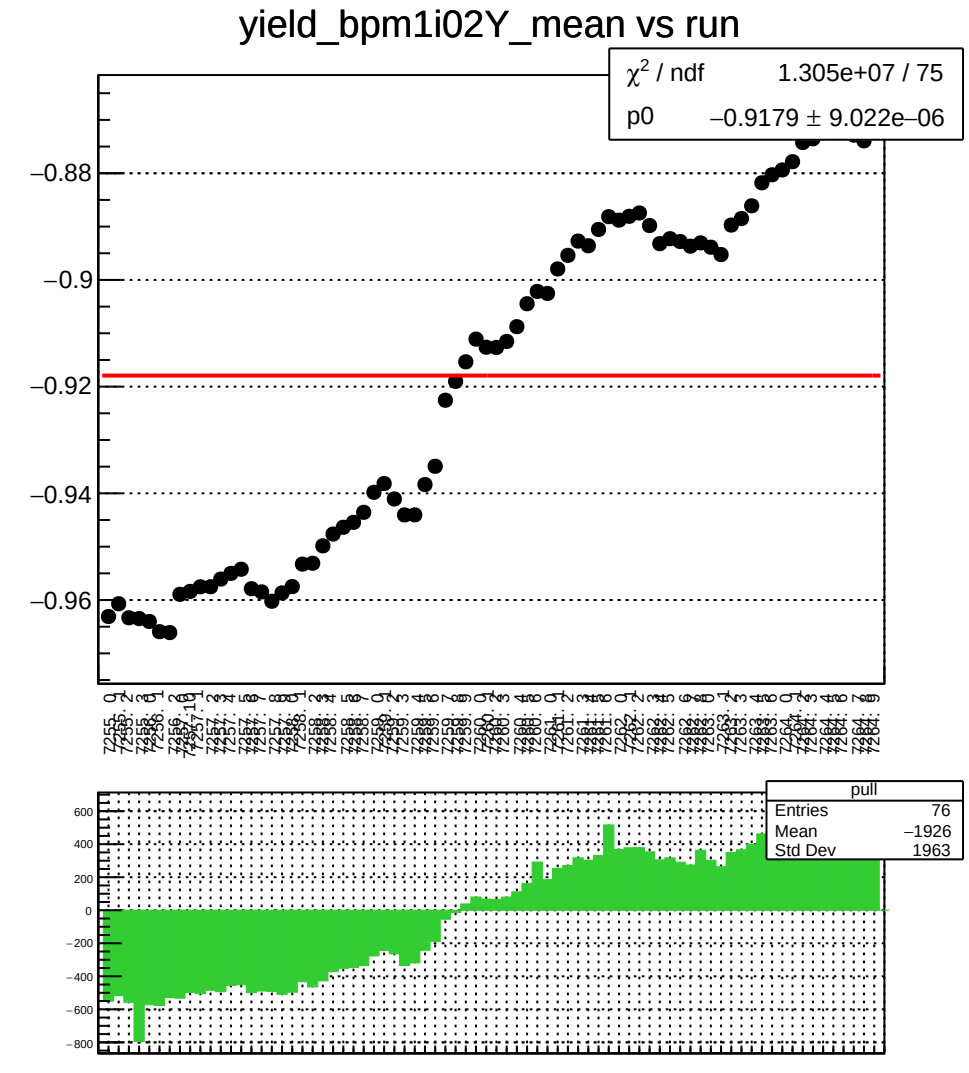

pull1D
Entries 76
Mean 5.871
Std Dev 0.2948
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

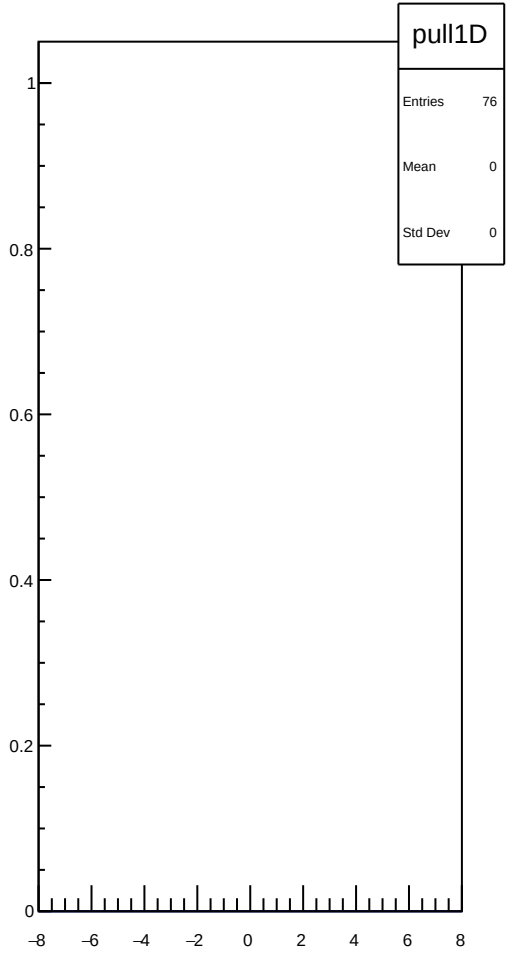

yield_bpm0i07Y_rms vs run
χ² / ndf 3.723e+04 / 75
p0 0.002621 ± 2.187e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

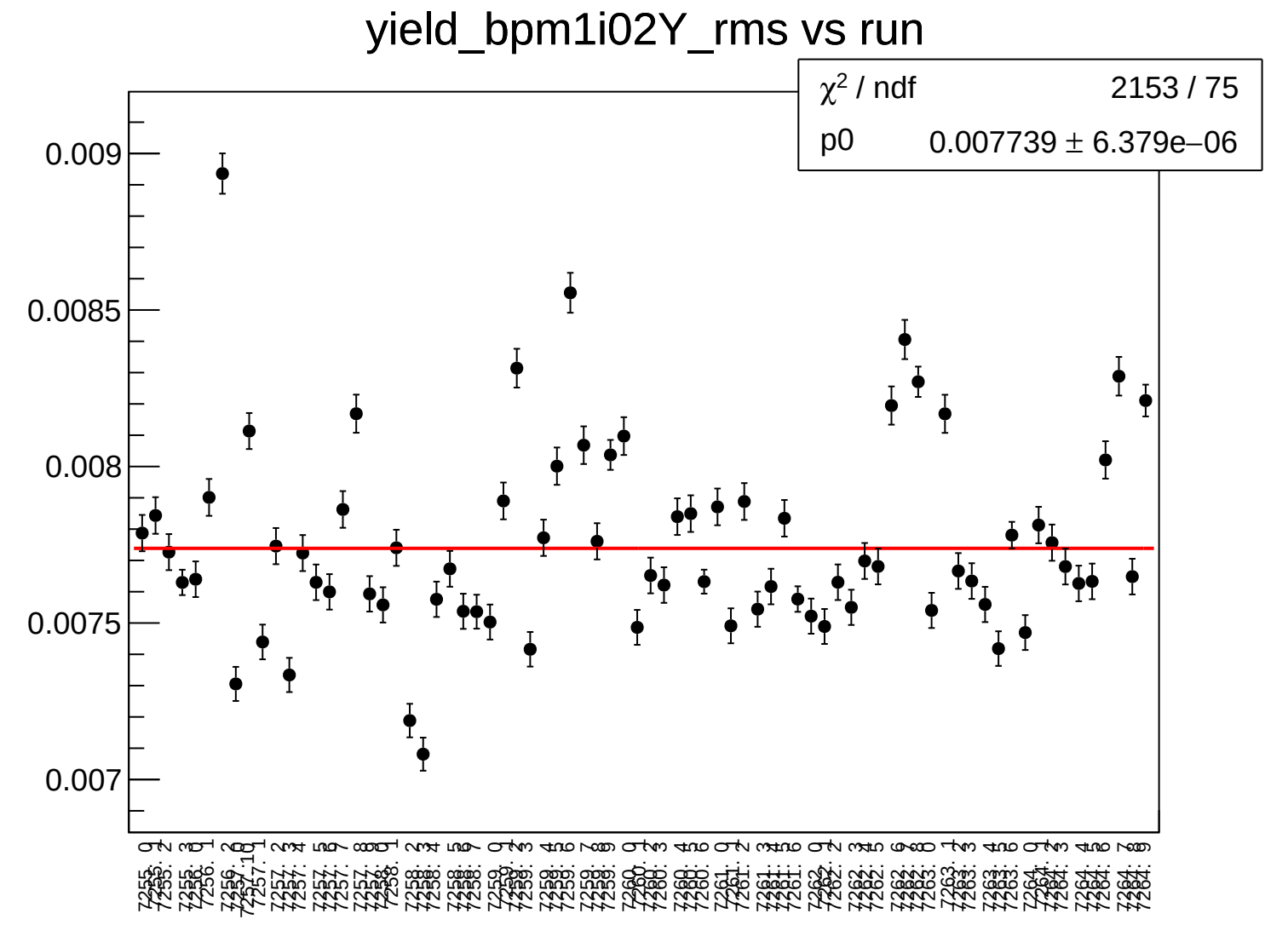

yield_bpm1i02X_mean vs run
χ² / ndf 1.252e+06 / 75
p0 −2.181 ± 1.028e−05
−2.165
−2.17
−2.175
−2.18
−2.185
−2.19
−2.195
−2.2
−2.205
pull
Entries 76
Mean −682.1
Std Dev 715.1
150
100
50
0
−50
−100
−150
−200
−250

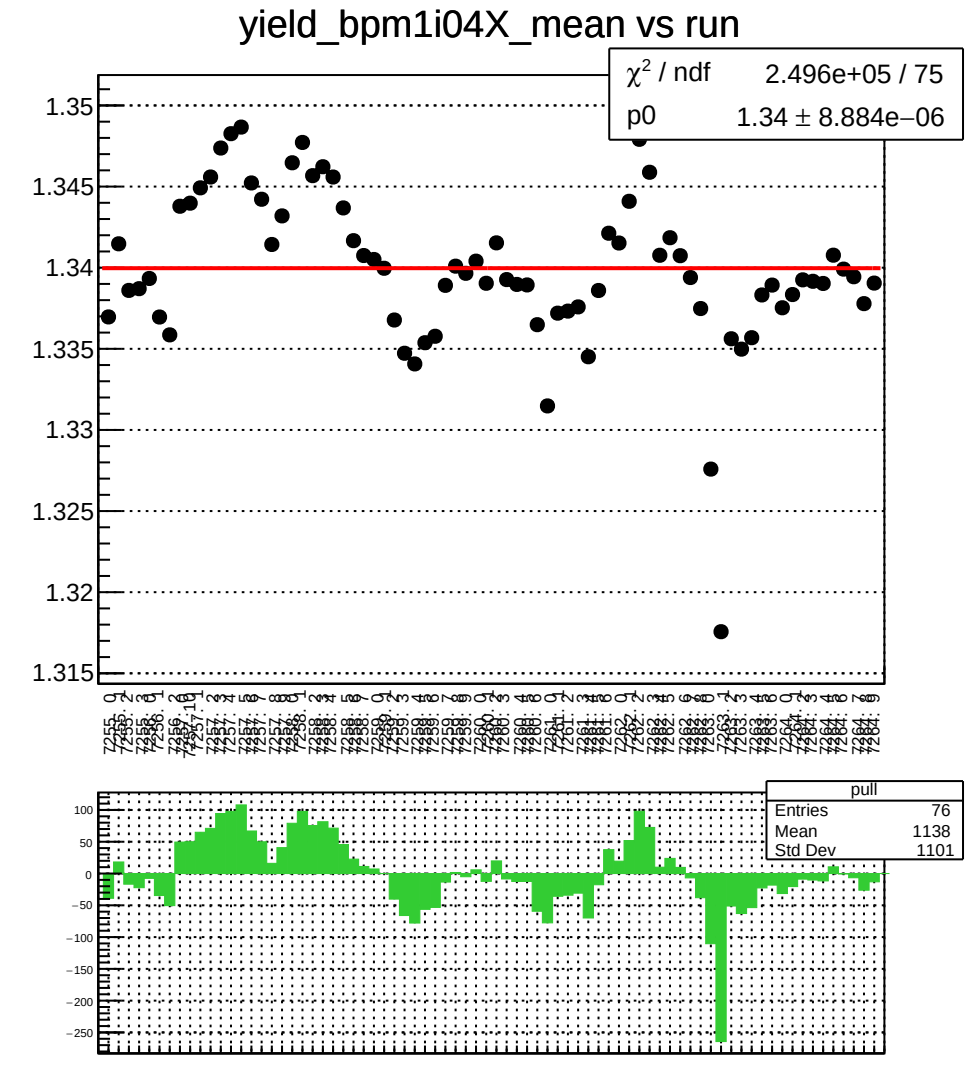

pull1D
Entries 76
Mean 6.527
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

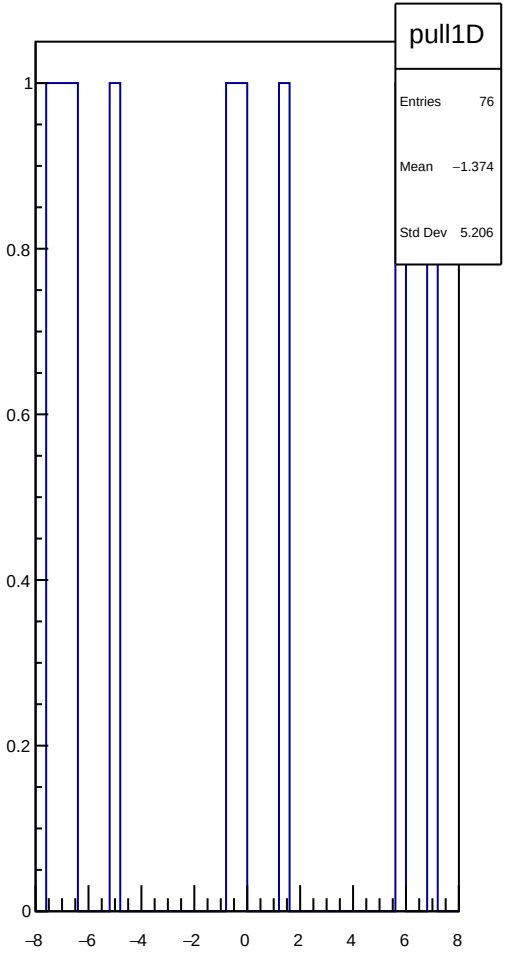

yield_bpm1i02X_rms vs run
χ² / ndf 2056 / 75
p0 0.008814 ± 7.266e−06
0.01
0.0095
0.009
0.0085
0.008

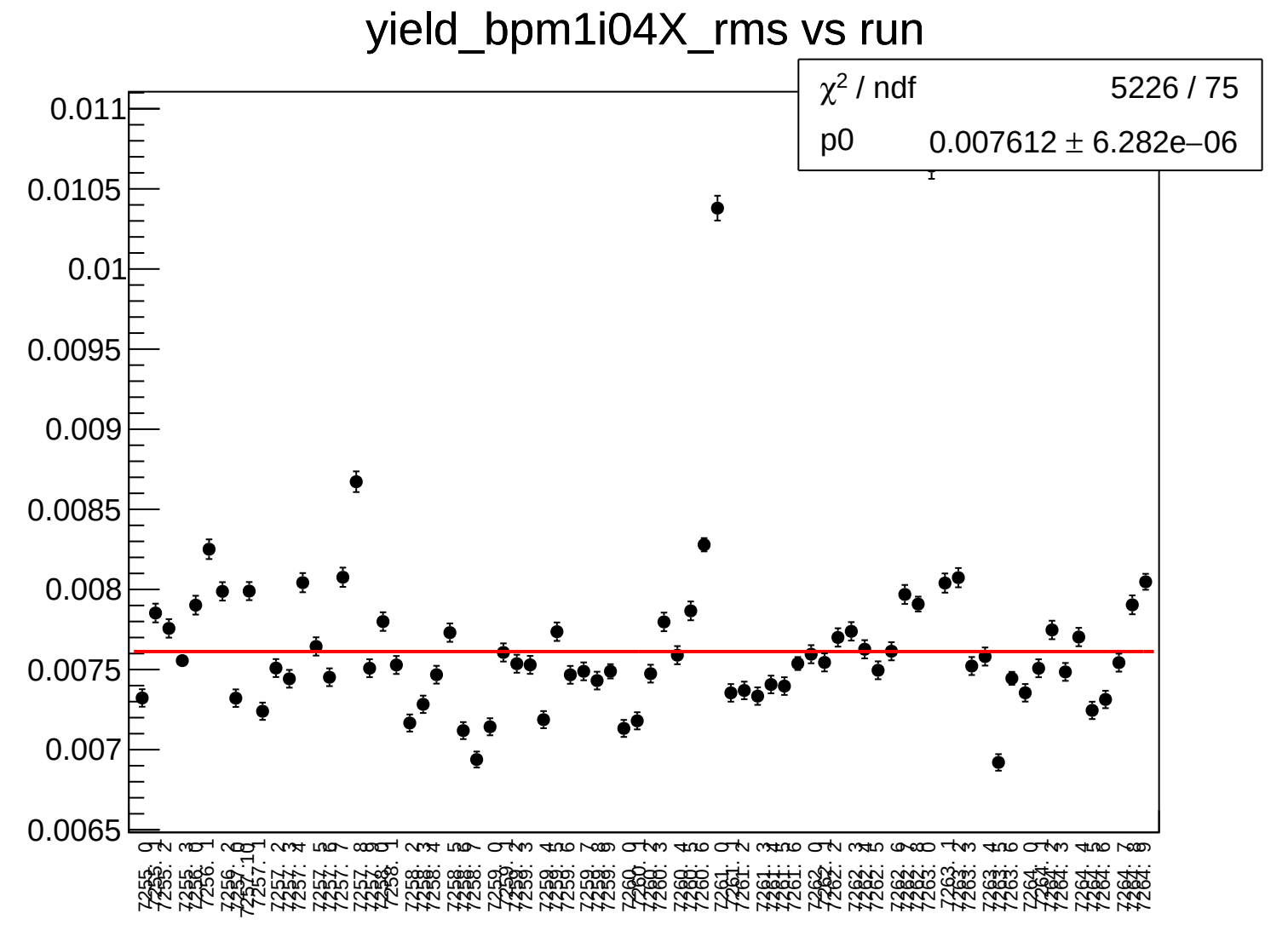

yield_bpm1i02Y_mean vs run
χ² / ndf 1.305e+07 / 75
p0 −0.9179 ± 9.022e−06
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 76
Mean −1926
Std Dev 1963
600
400
200
0
−200
−400
−600
−800

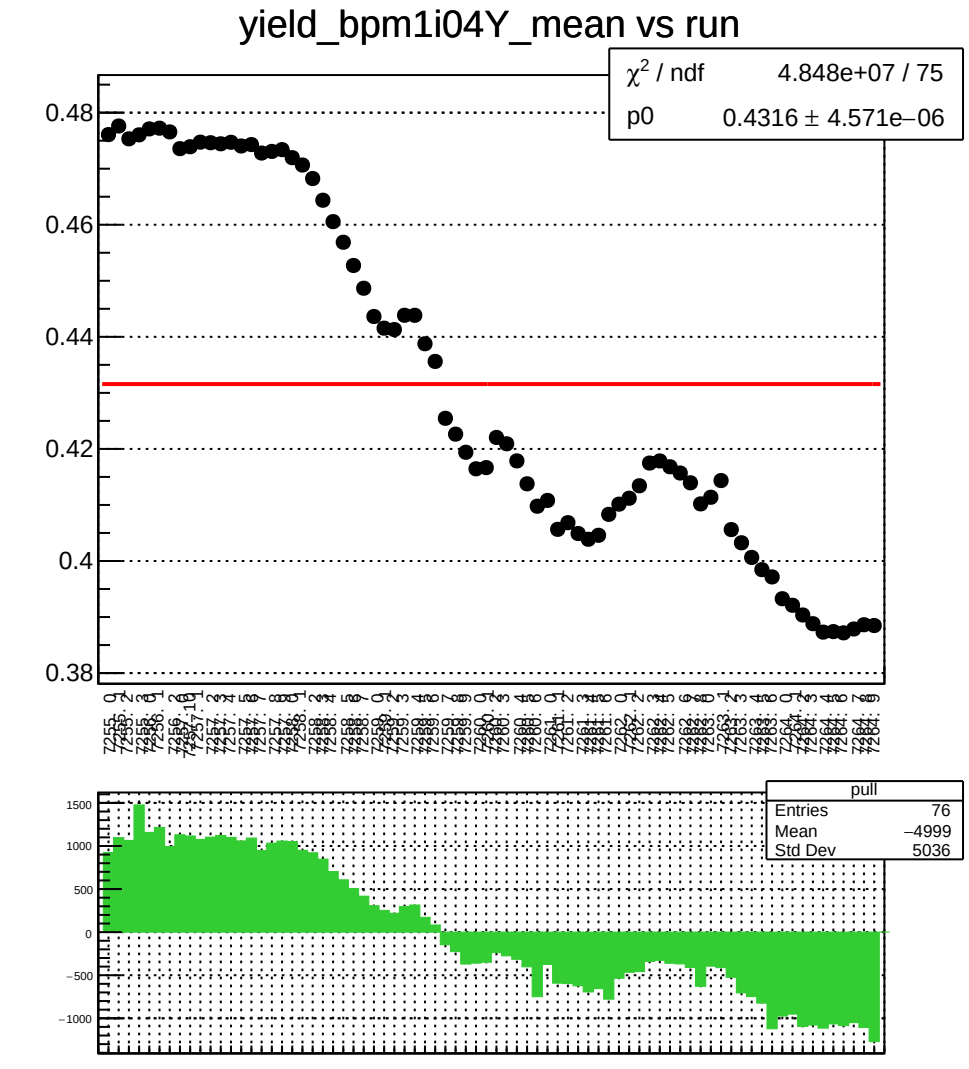

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

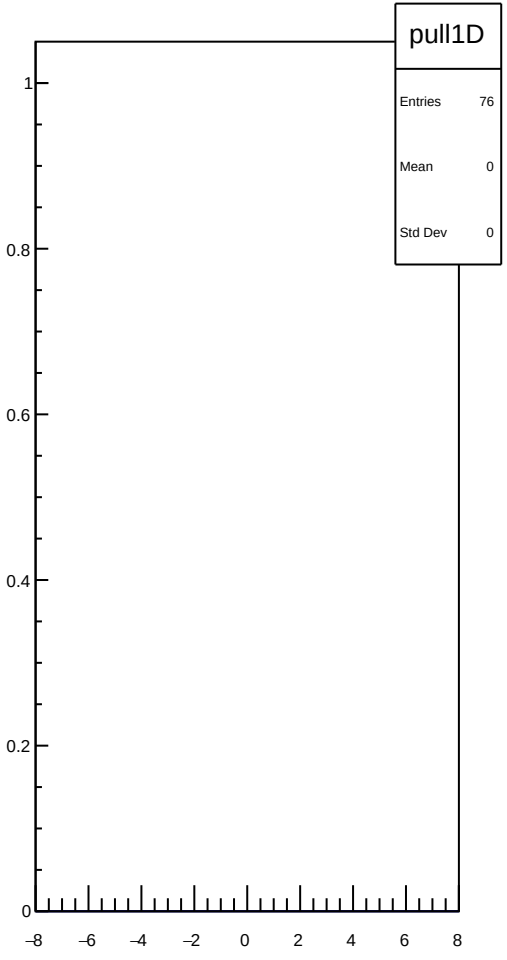

yield_bpm1i02Y_rms vs run
χ² / ndf 2153 / 75
p0 0.007739 ± 6.379e−06
0.009
0.0085
0.008
0.0075
0.007

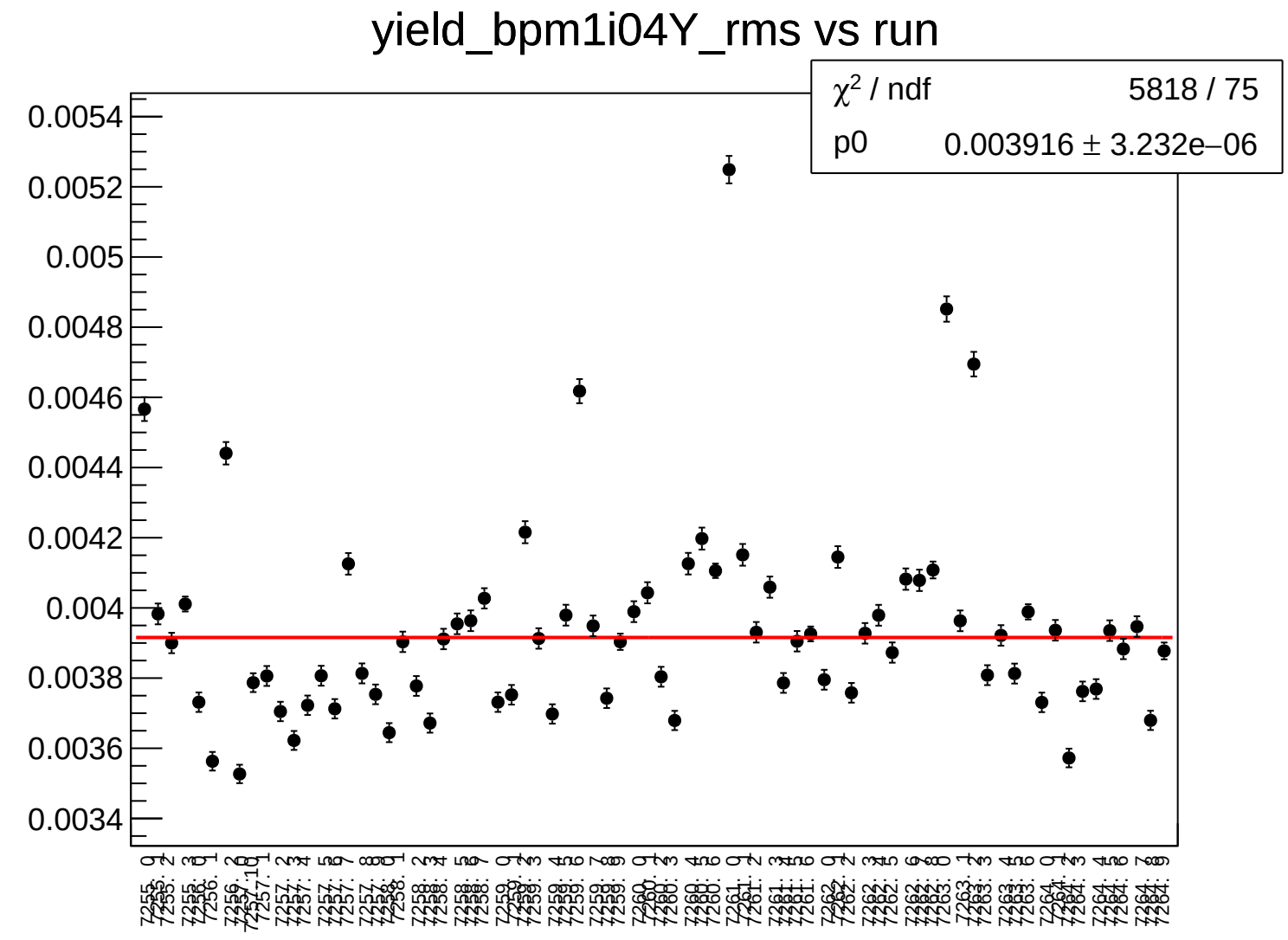

yield_bpm1i04X_mean vs run
χ² / ndf 2.496e+05 / 75
p0 1.34 ± 8.884e−06
1.35
1.345
1.34
1.335
1.33
1.325
1.32
1.315
pull
Entries 76
Mean 1138
Std Dev 1101
100
50
0
−50
−100
−150
−200
−250

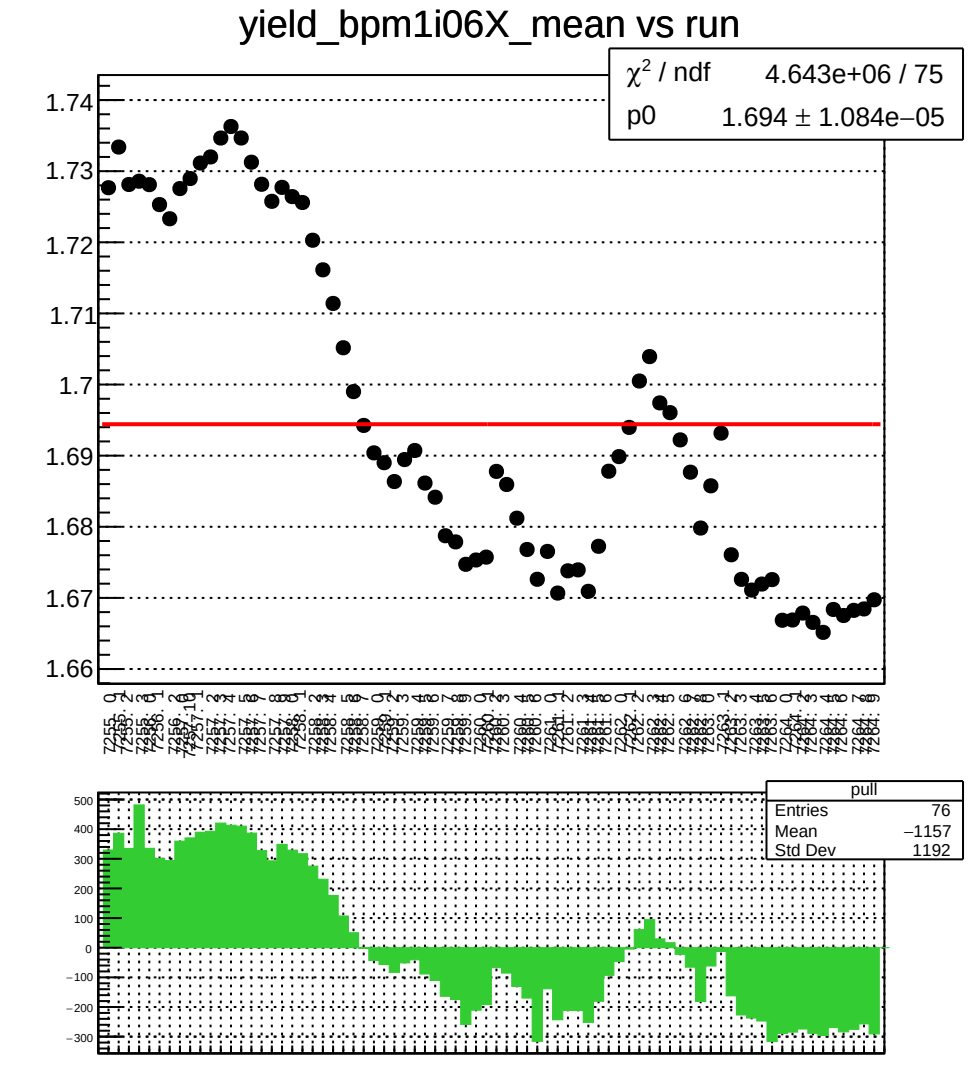

pull1D
Entries 76
Mean −1.374
Std Dev 5.206
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

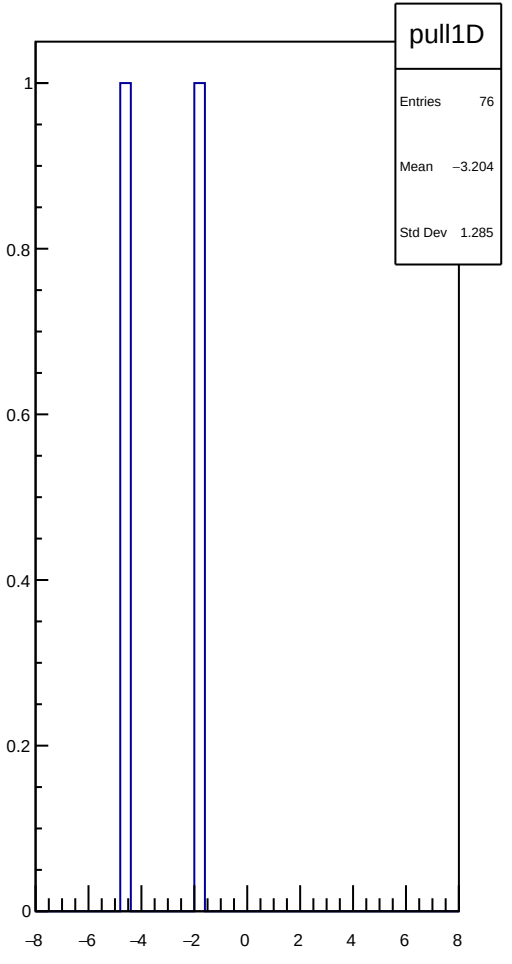

yield_bpm1i04X_rms vs run
χ^2 / ndf 5226 / 75
p0 0.007612 ± 6.282e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

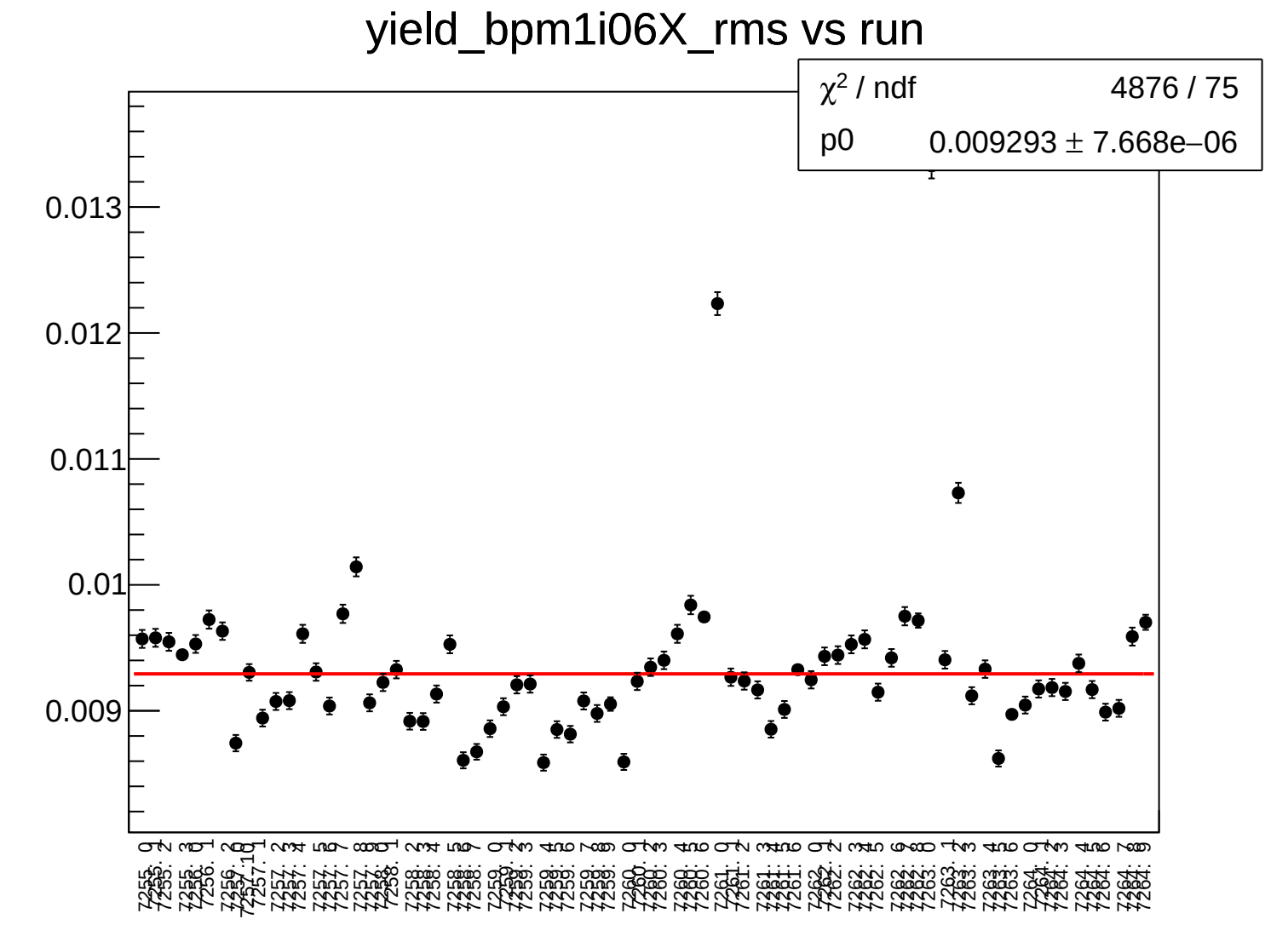

yield_bpm1i04Y_mean vs run
χ² / ndf 4.848e+07 / 75
p0 0.4316 ± 4.571e−06
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 76
Mean −4999
Std Dev 5036
1500
1000
500
0
−500
−1000

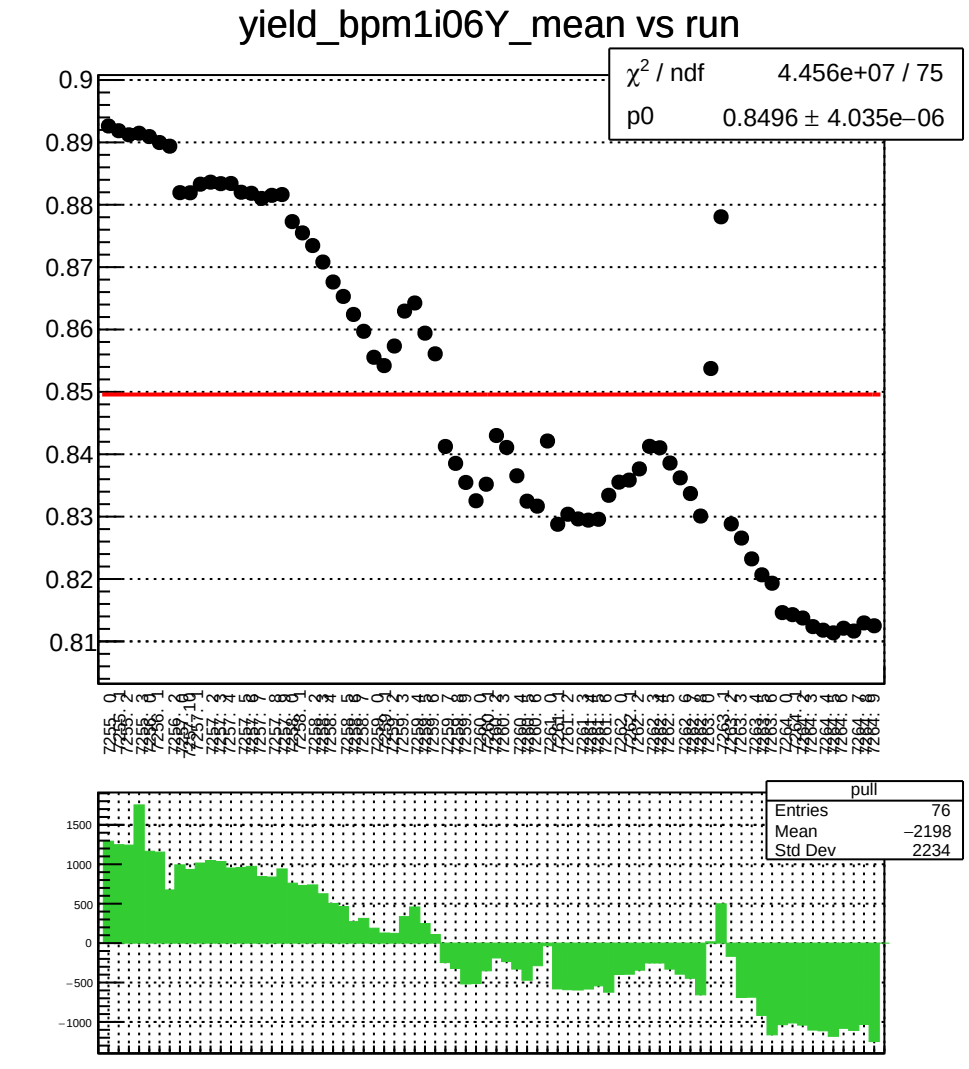

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

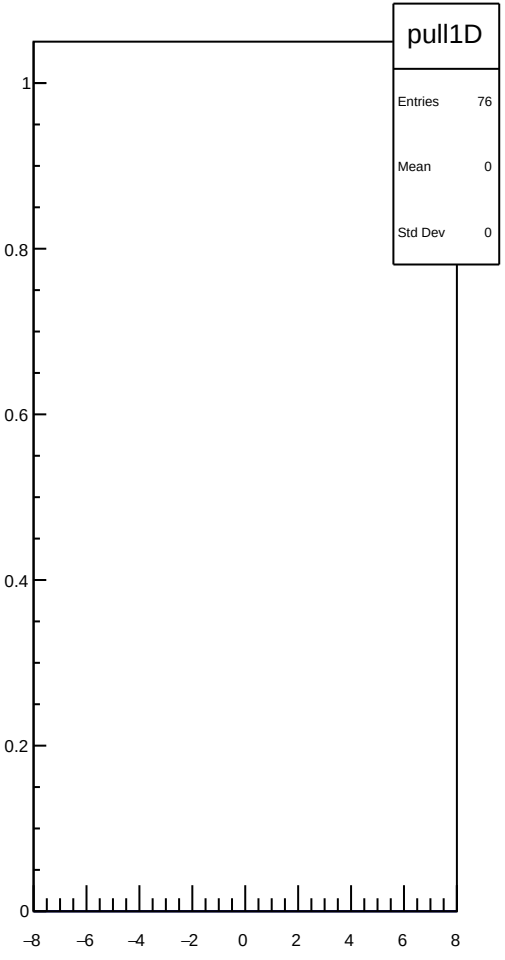

yield_bpm1i04Y_rms vs run
χ^2 / ndf 5818 / 75
p0 0.003916 ± 3.232e−06
0.0054
0.0052
0.005
0.0048
0.0046
0.0044
0.0042
0.004
0.0038
0.0036
0.0034

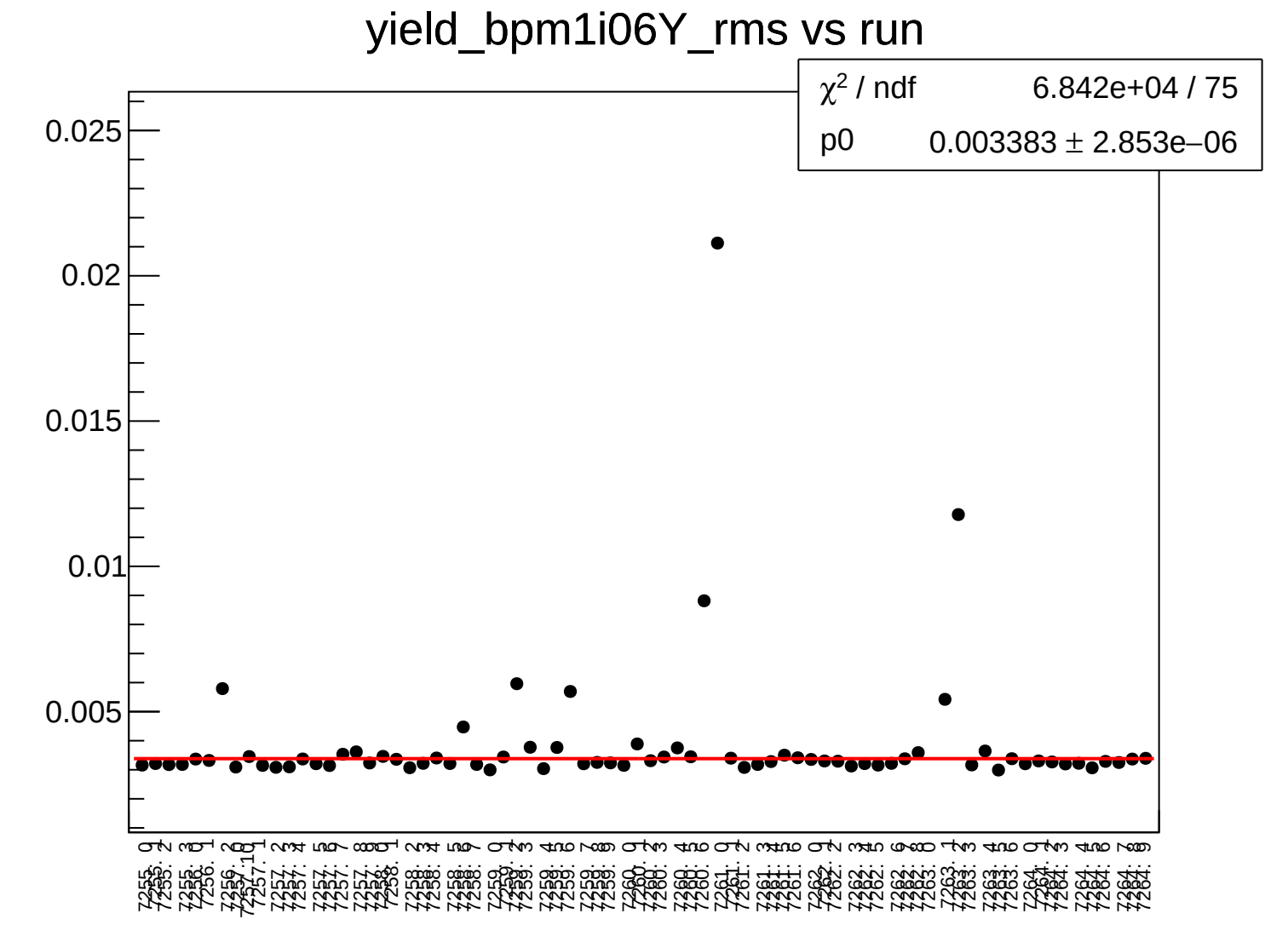

yield_bpm1i06X_mean vs run
χ² / ndf 4.643e+06 / 75
p0 1.694 ± 1.084e−05
1.74
1.73
1.72
1.71
1.7
1.69
1.68
1.67
1.66
pull
Entries 76
Mean −1157
Std Dev 1192
500
400
300
200
100
0
−100
−200
−300

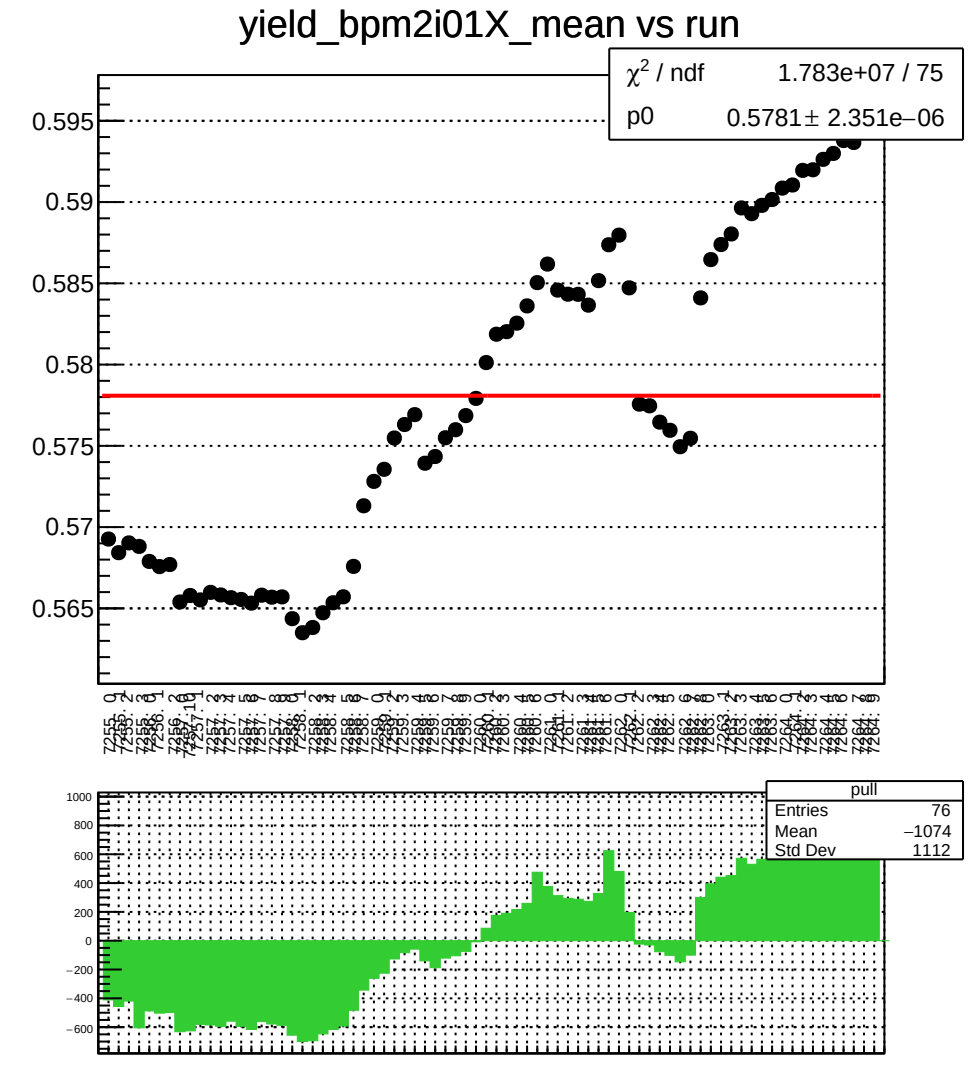

pull1D
Entries 76
Mean −3.204
Std Dev 1.285
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

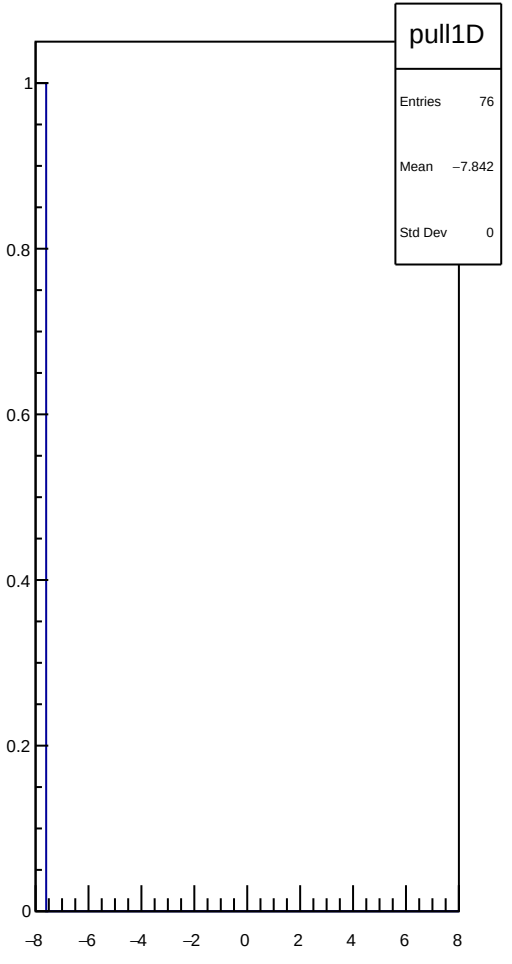

yield_bpm1i06X_rms vs run
χ² / ndf 4876 / 75
p0 0.009293 ± 7.668e−06
0.013
0.012
0.011
0.01
0.009

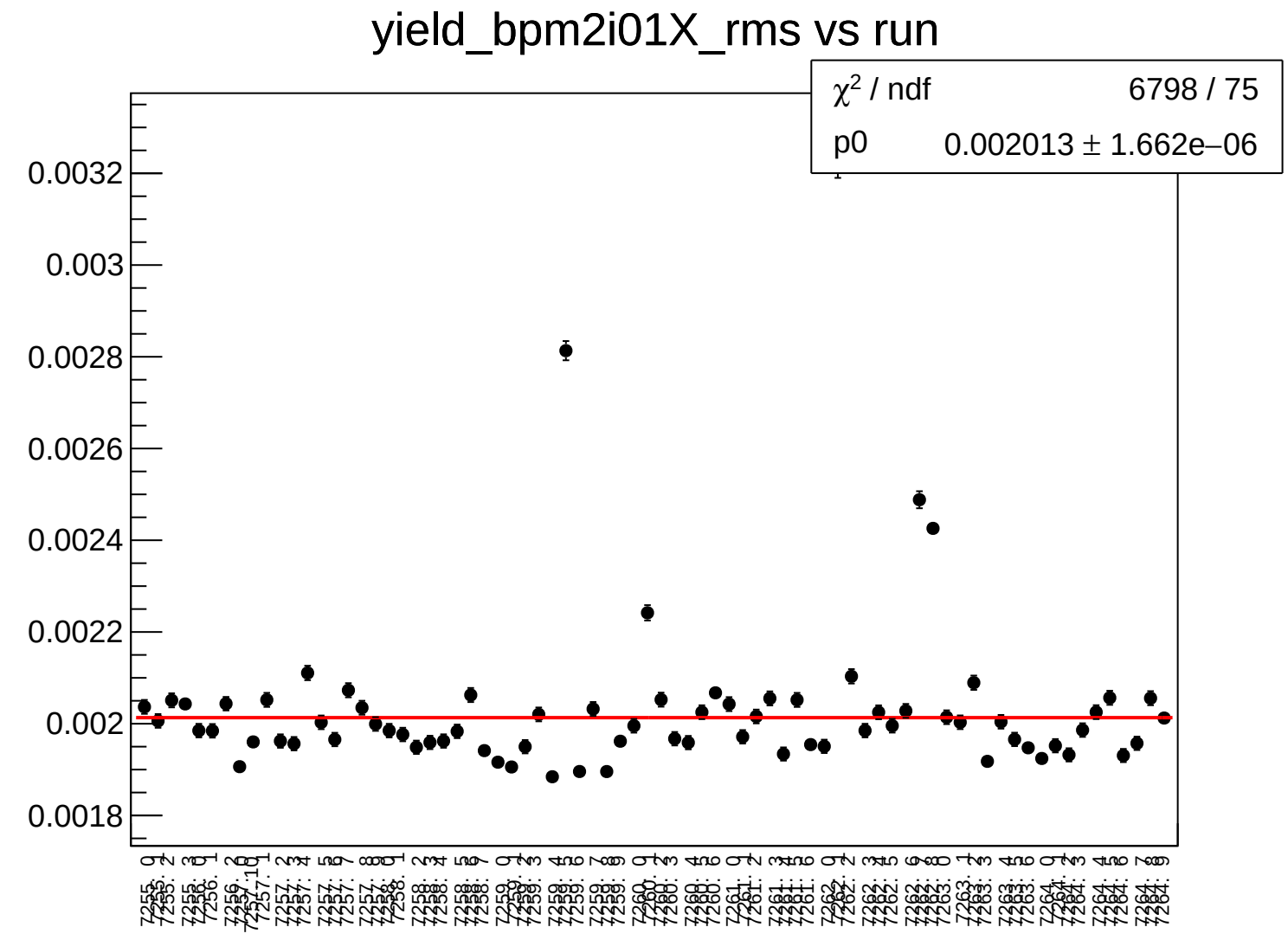

yield_bpm1i06Y_mean vs run
χ² / ndf 4.456e+07 / 75
p0 0.8496 ± 4.035e−06
pull
Entries 76
Mean −2198
Std Dev 2234

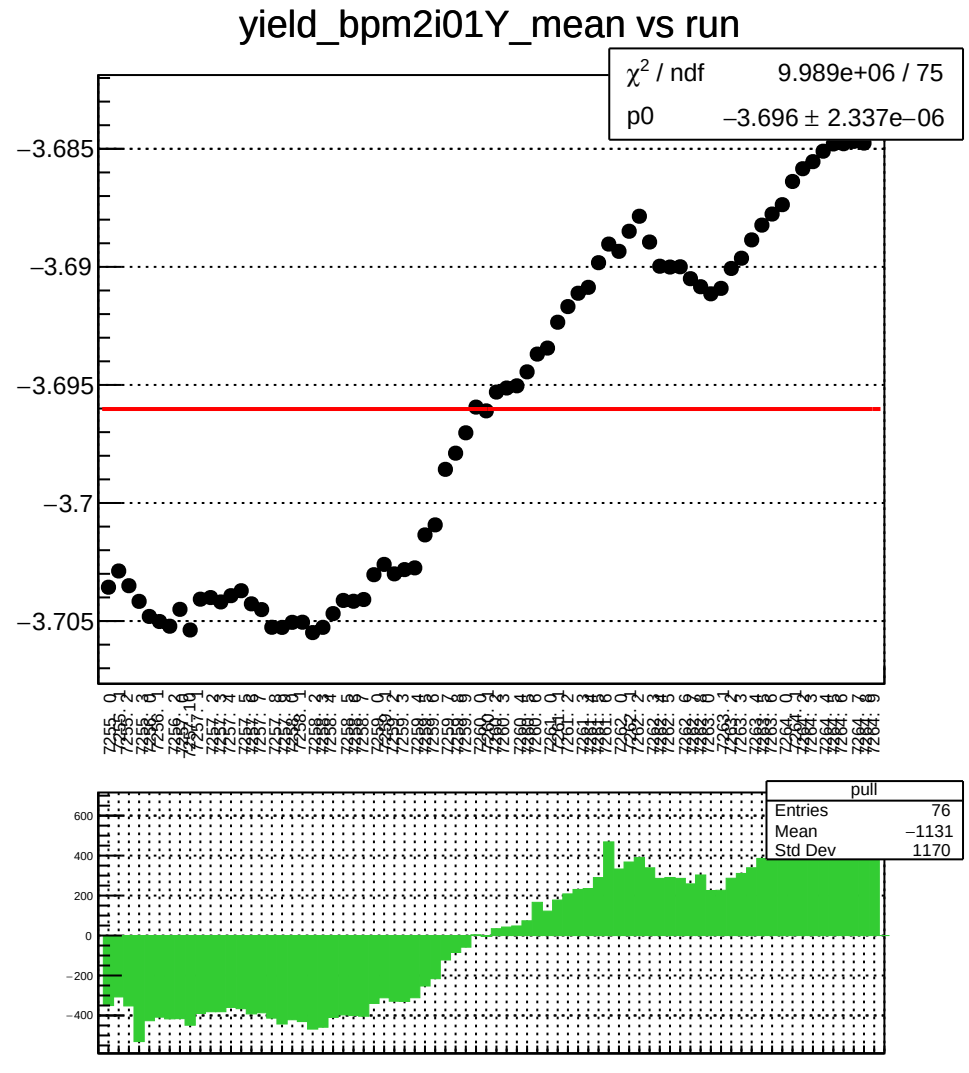

pull1D
Entries 76
Mean 0
Std Dev 0

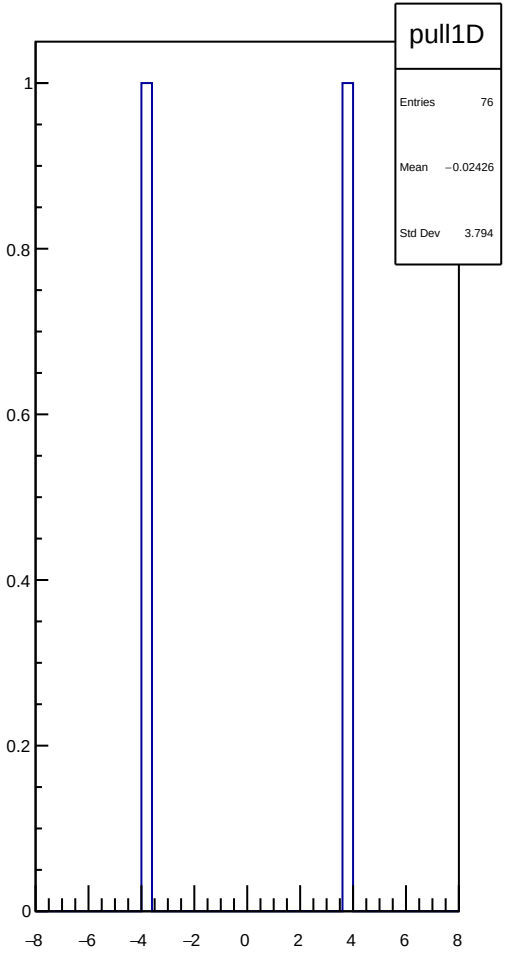

yield_bpm1i06Y_rms vs run
χ² / ndf 6.842e+04 / 75
p0 0.003383 ± 2.853e−06
0.025
0.02
0.015
0.01
0.005

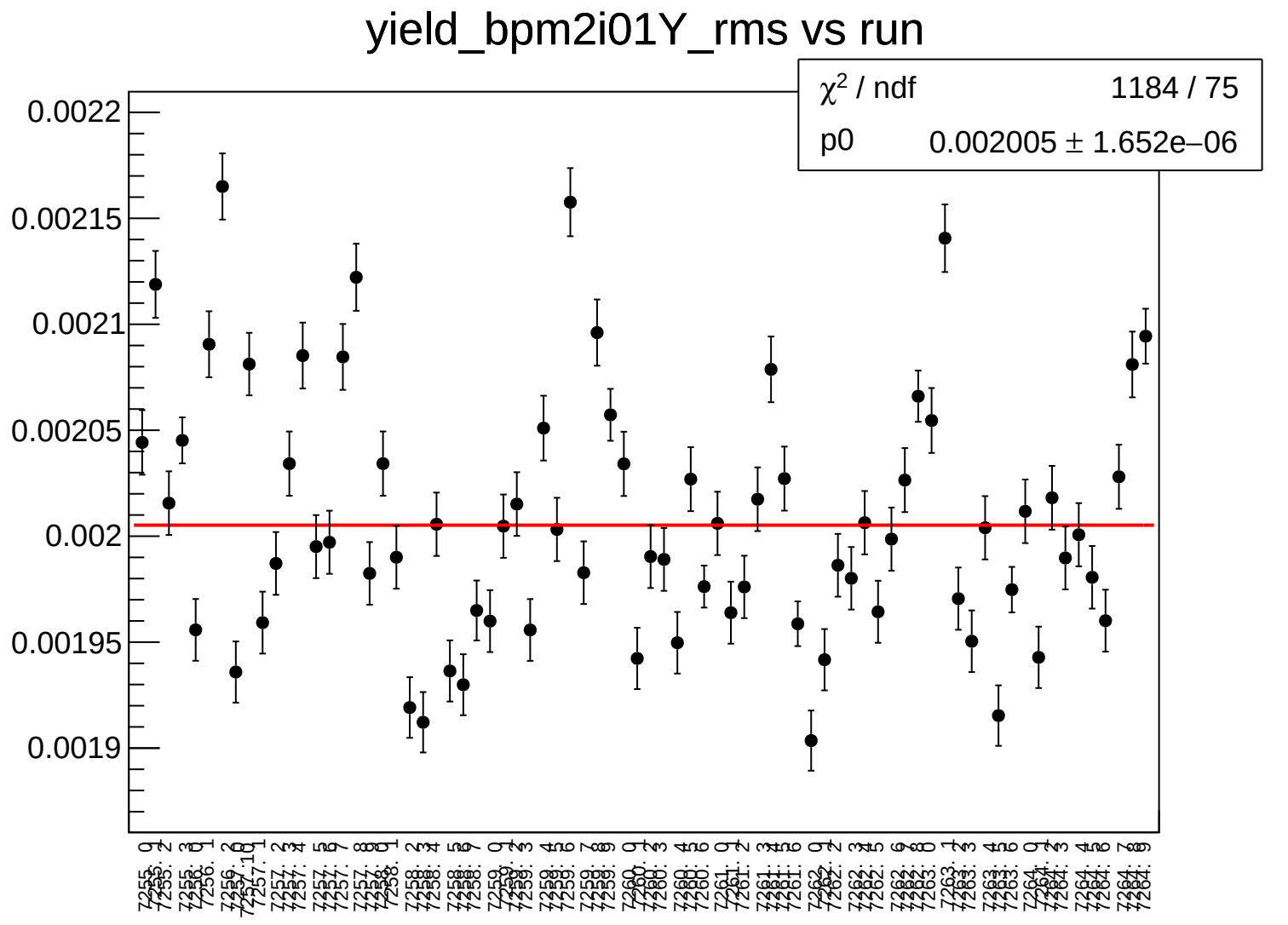

yield_bpm2i01X_mean vs run
χ² / ndf 1.783e+07 / 75
p0 0.5781 ± 2.351e−06
0.595
0.59
0.585
0.58
0.575
0.57
0.565
pull
Entries 76
Mean −1074
Std Dev 1112
1000
800
600
400
200
0
−200
−400
−600

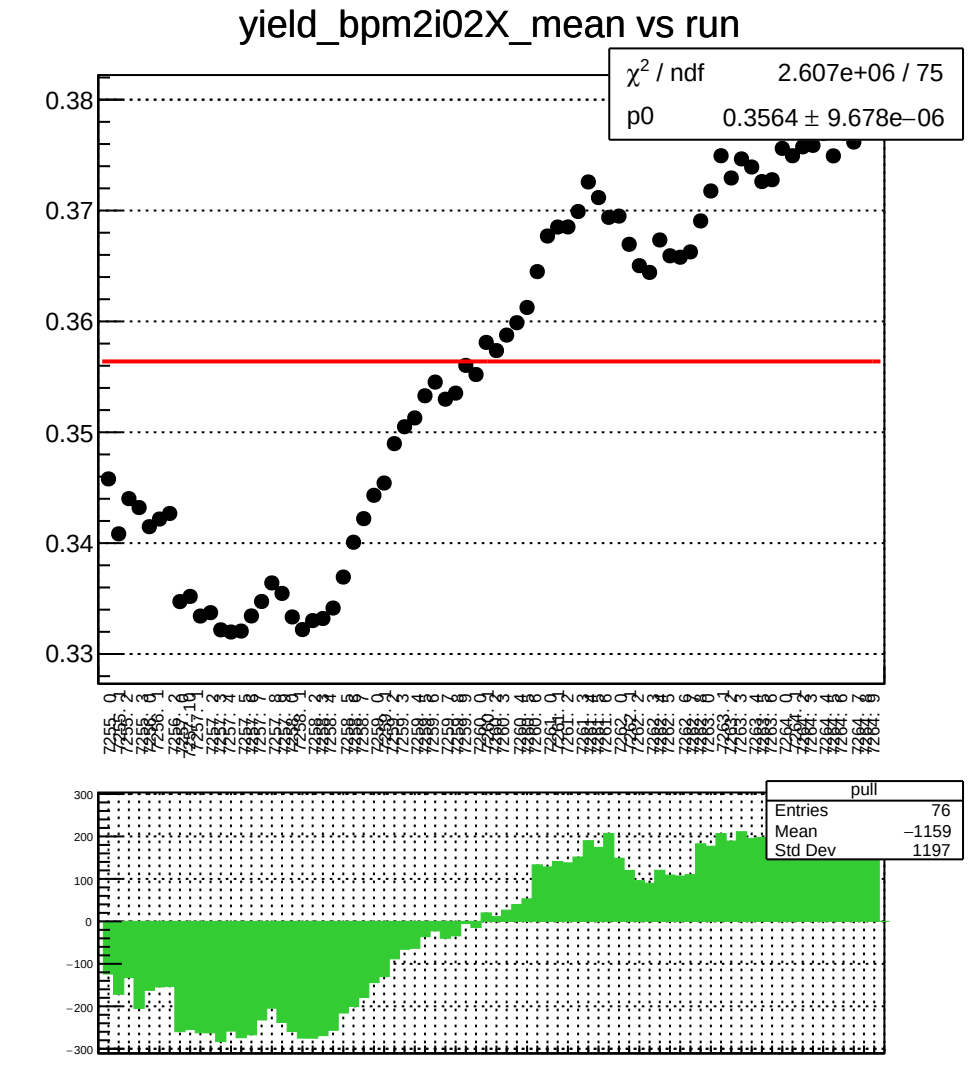

pull1D
Entries 76
Mean −7.842
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

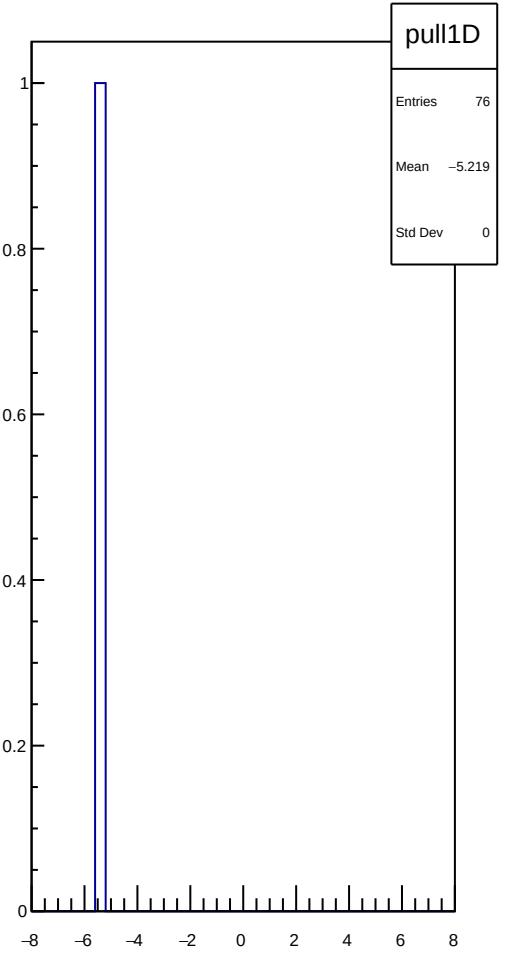

yield_bpm2i01X_rms vs run
χ² / ndf 6798 / 75
p0 0.002013 ± 1.662e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

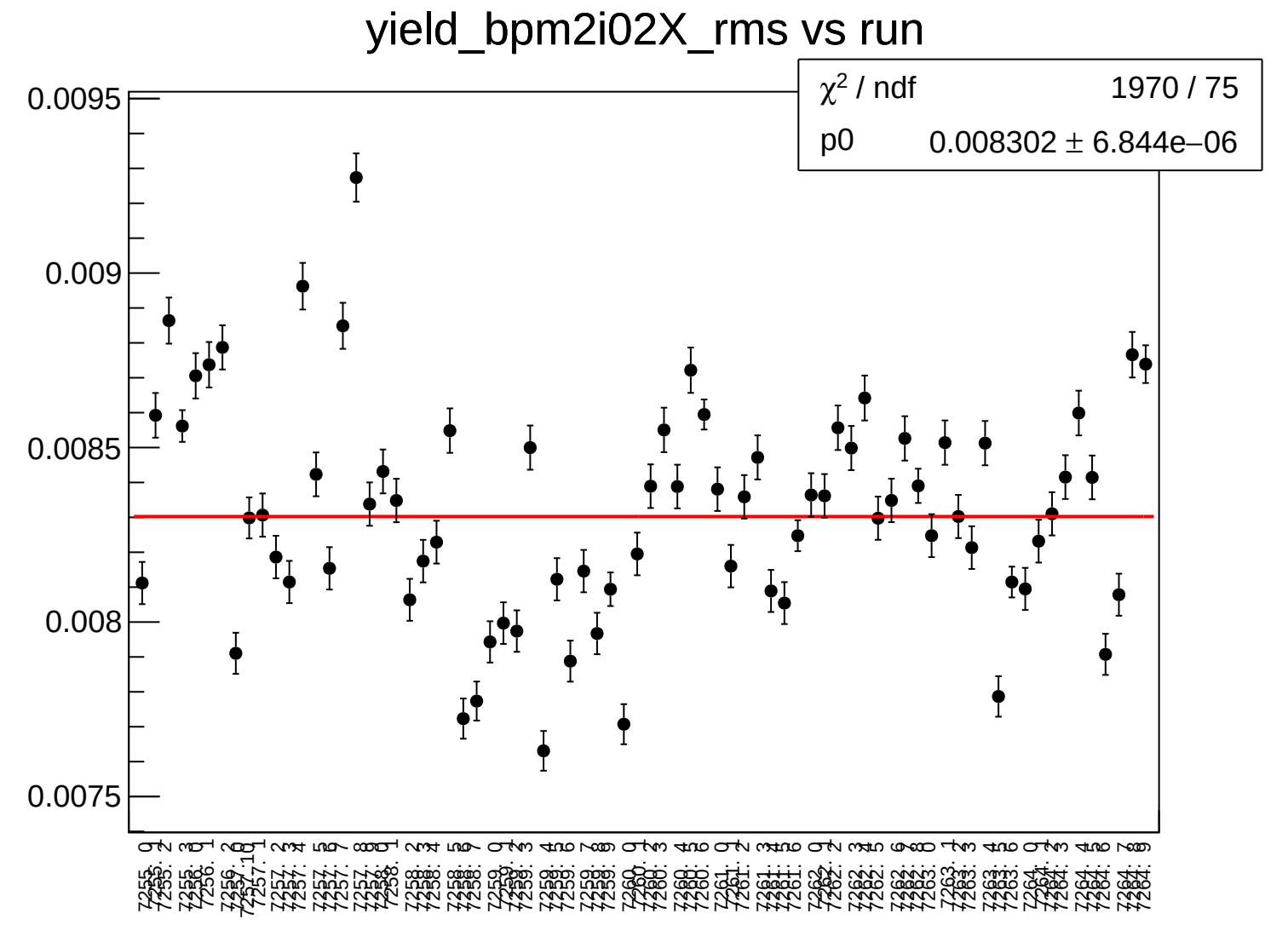

yield_bpm2i01Y_mean vs run
χ² / ndf 9.989e+06 / 75
p0 −3.696 ± 2.337e−06
−3.685
−3.69
−3.695
−3.7
−3.705
pull
Entries 76
Mean −1131
Std Dev 1170
600
400
200
0
−200
−400

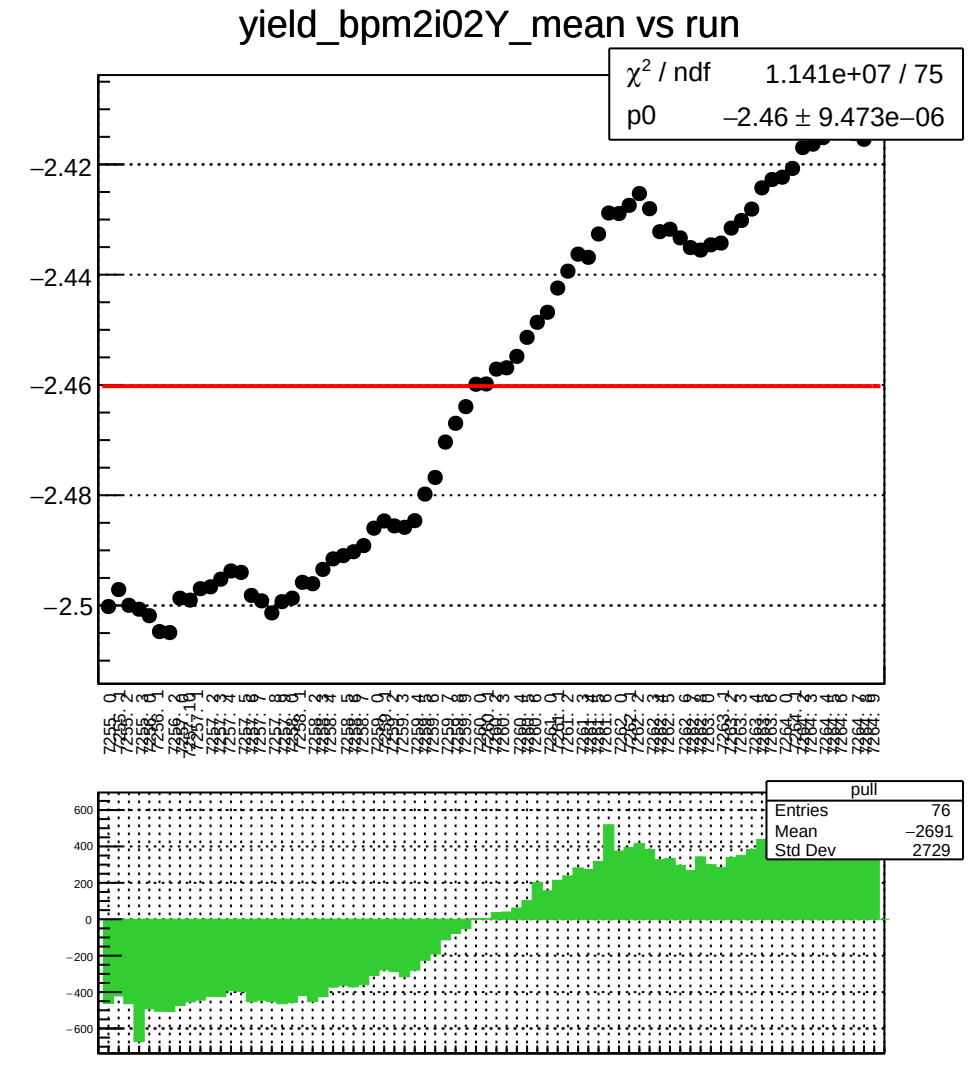

pull1D
Entries 76
Mean −0.02426
Std Dev 3.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

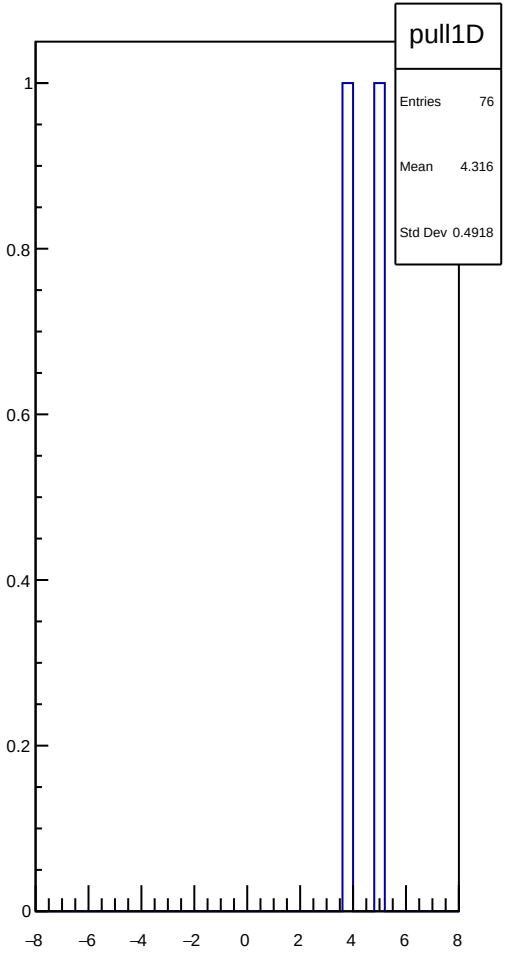

yield_bpm2i01Y_rms vs run
χ² / ndf 1184 / 75
p0 0.002005 ± 1.652e−06
0.0022
0.00215
0.0021
0.00205
0.002
0.00195
0.0019

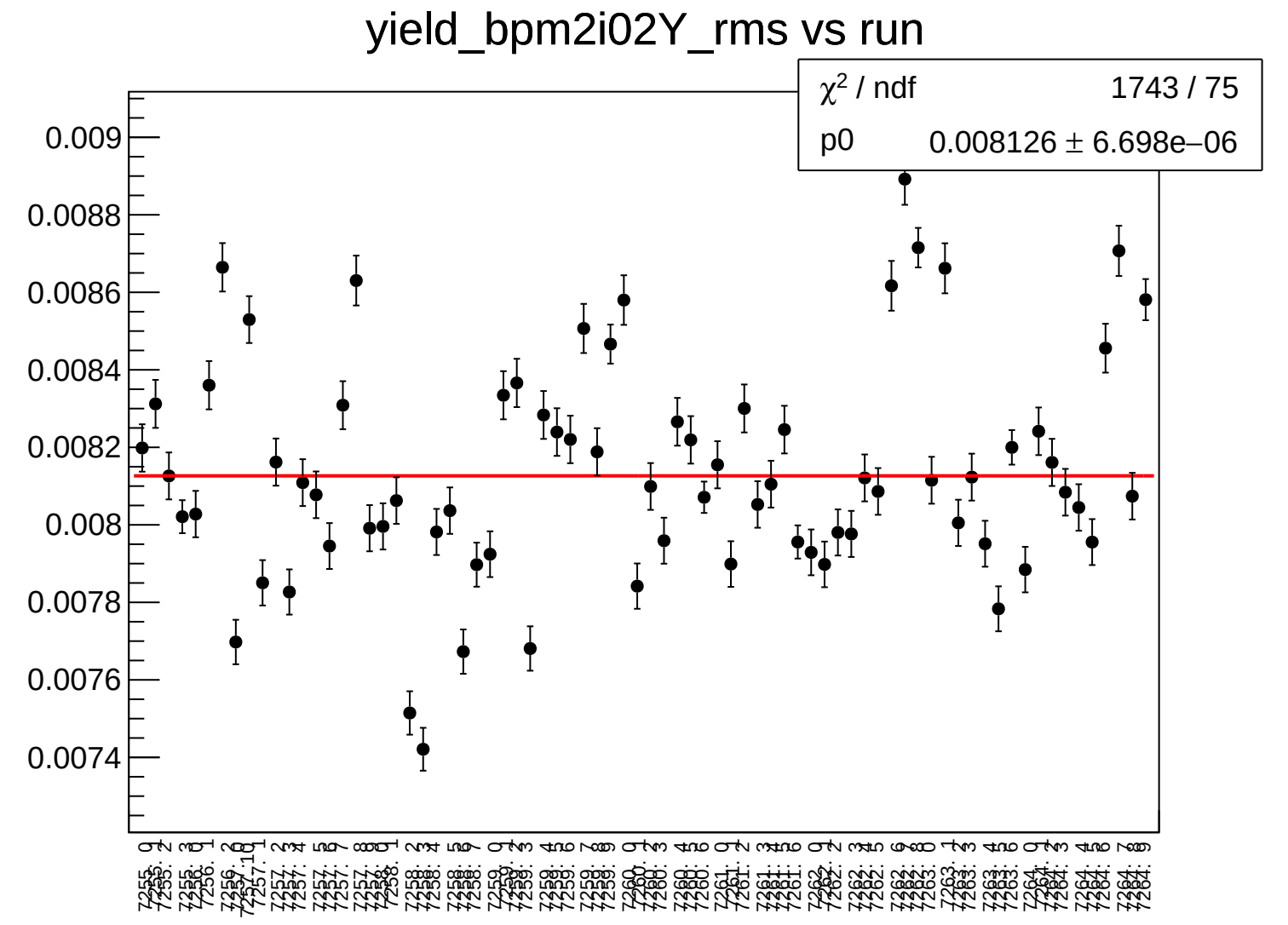

yield_bpm2i02X_mean vs run
χ² / ndf 2.607e+06 / 75
p0 0.3564 ± 9.678e−06
0.38
0.37
0.36
0.35
0.34
0.33
pull
Entries 76
Mean −1159
Std Dev 1197
300
200
100
0
−100
−200
−300

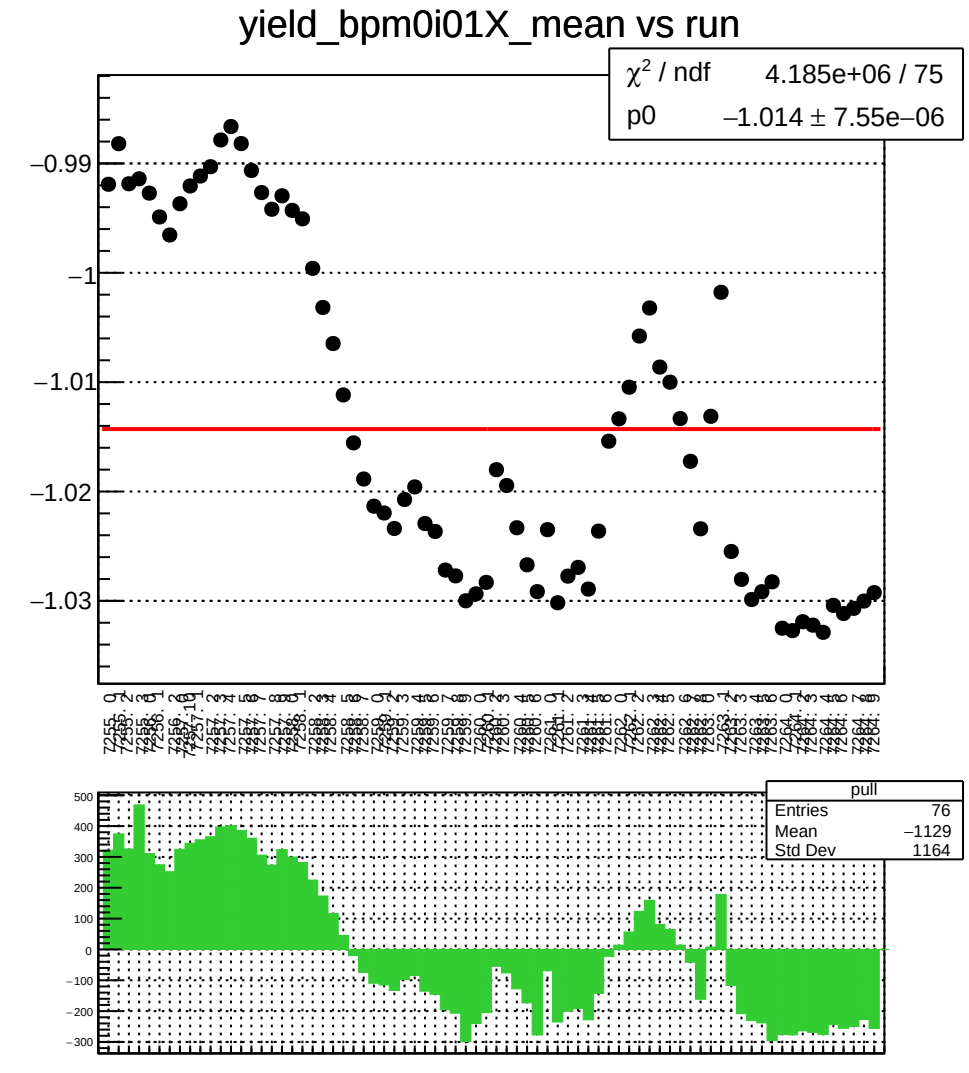

pull1D
Entries 76
Mean −5.219
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

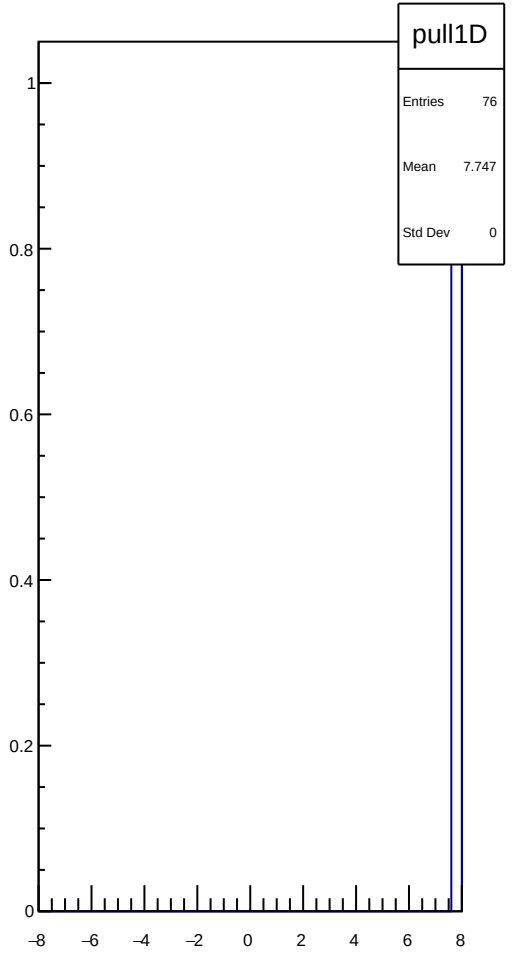

yield_bpm2i02X_rms vs run
χ² / ndf 1970 / 75
p0 0.008302 ± 6.844e−06
0.0095
0.009
0.0085
0.008
0.0075

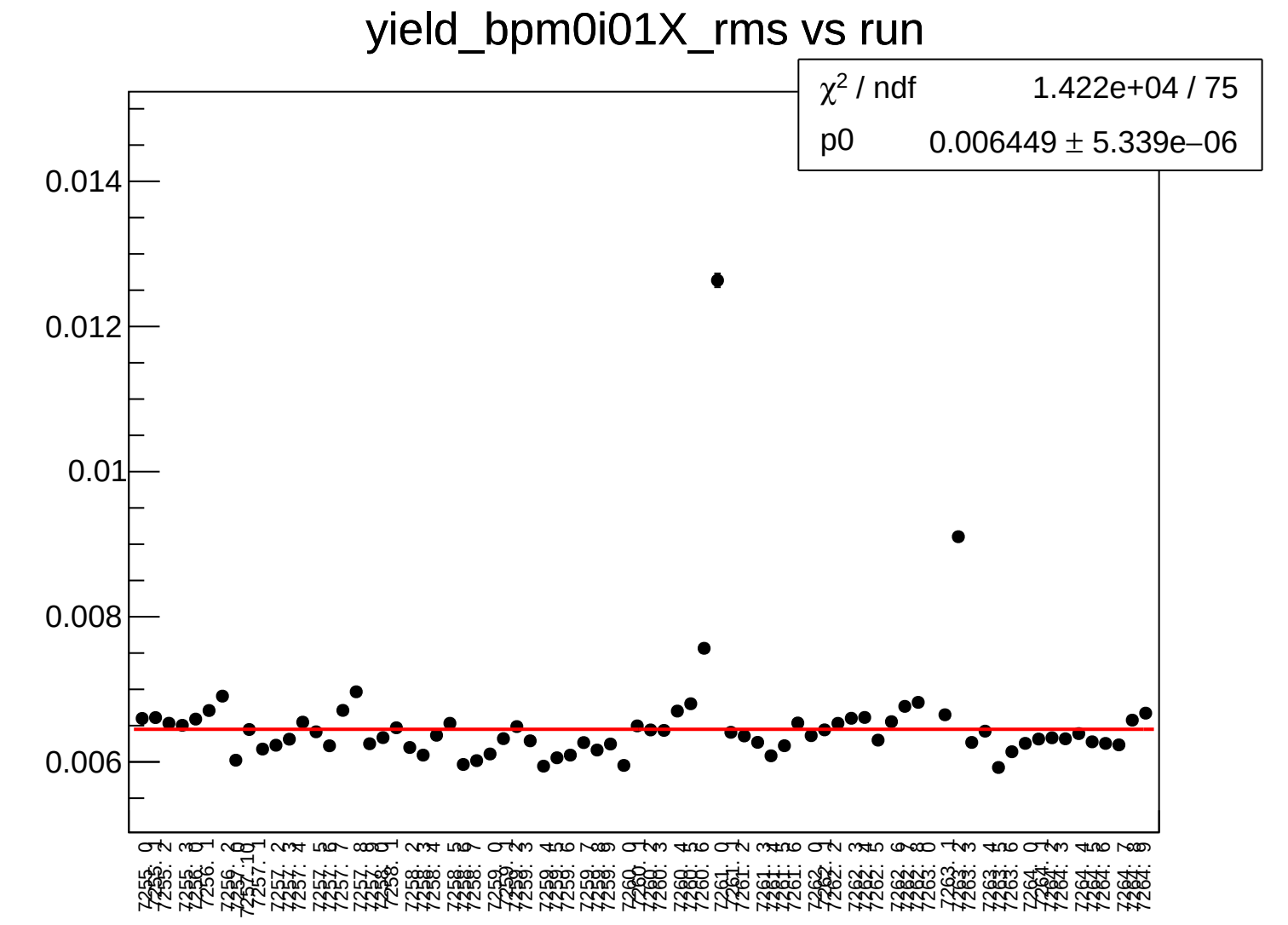

yield_bpm2i02Y_mean vs run
χ² / ndf 1.141e+07 / 75
p0 −2.46 ± 9.473e−06
−2.42
−2.44
−2.46
−2.48
−2.5
pull
Entries 76
Mean −2691
Std Dev 2729
600
400
200
0
−200
−400
−600

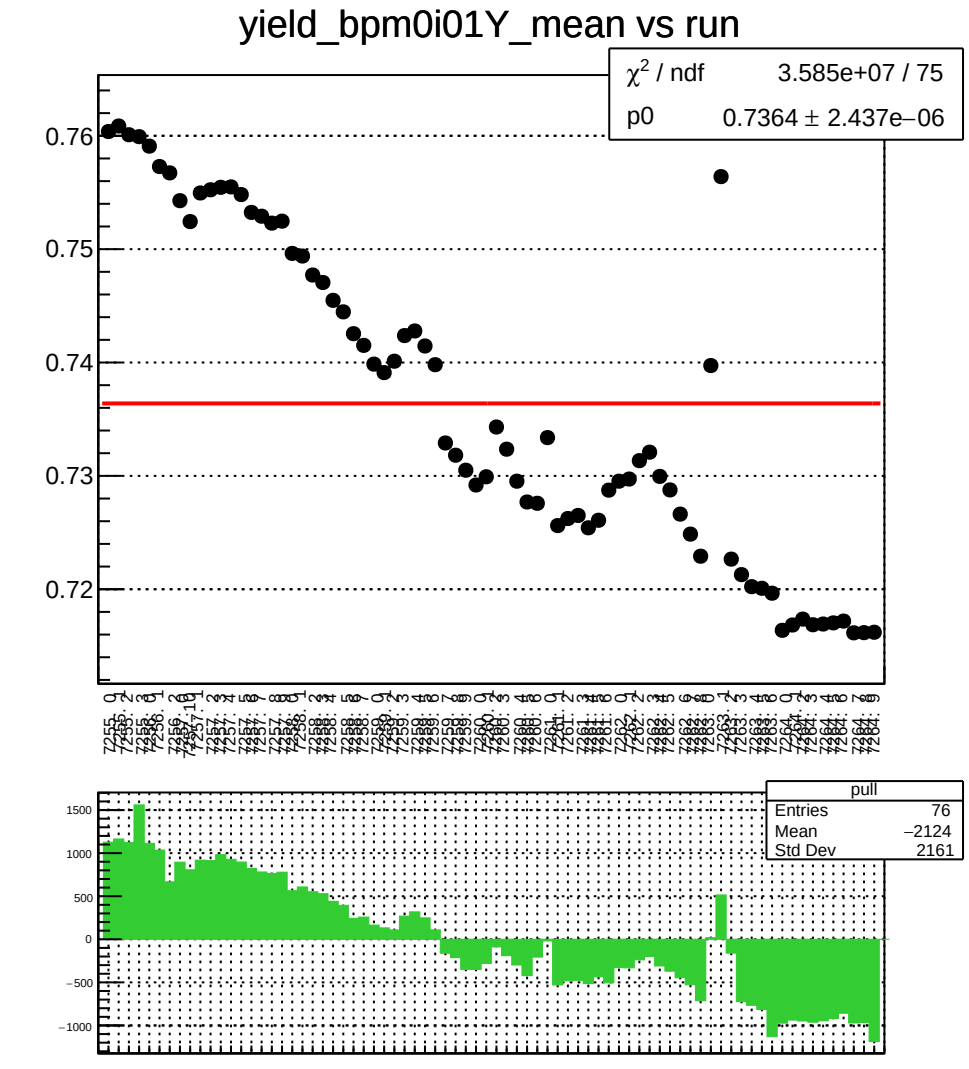

pull1D
Entries 76
Mean 4.316
Std Dev 0.4918
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

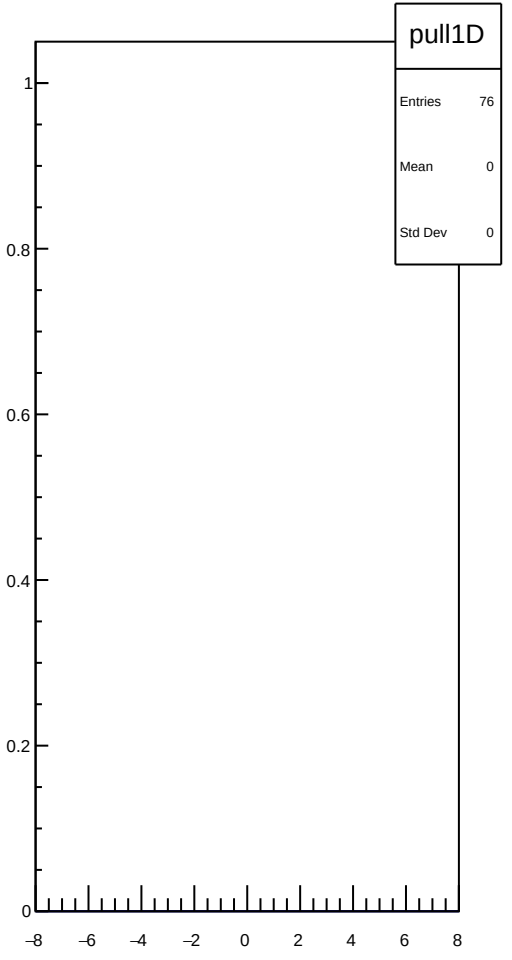

yield_bpm2i02Y_rms vs run
χ² / ndf 1743 / 75
p0 0.008126 ± 6.698e−06
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074

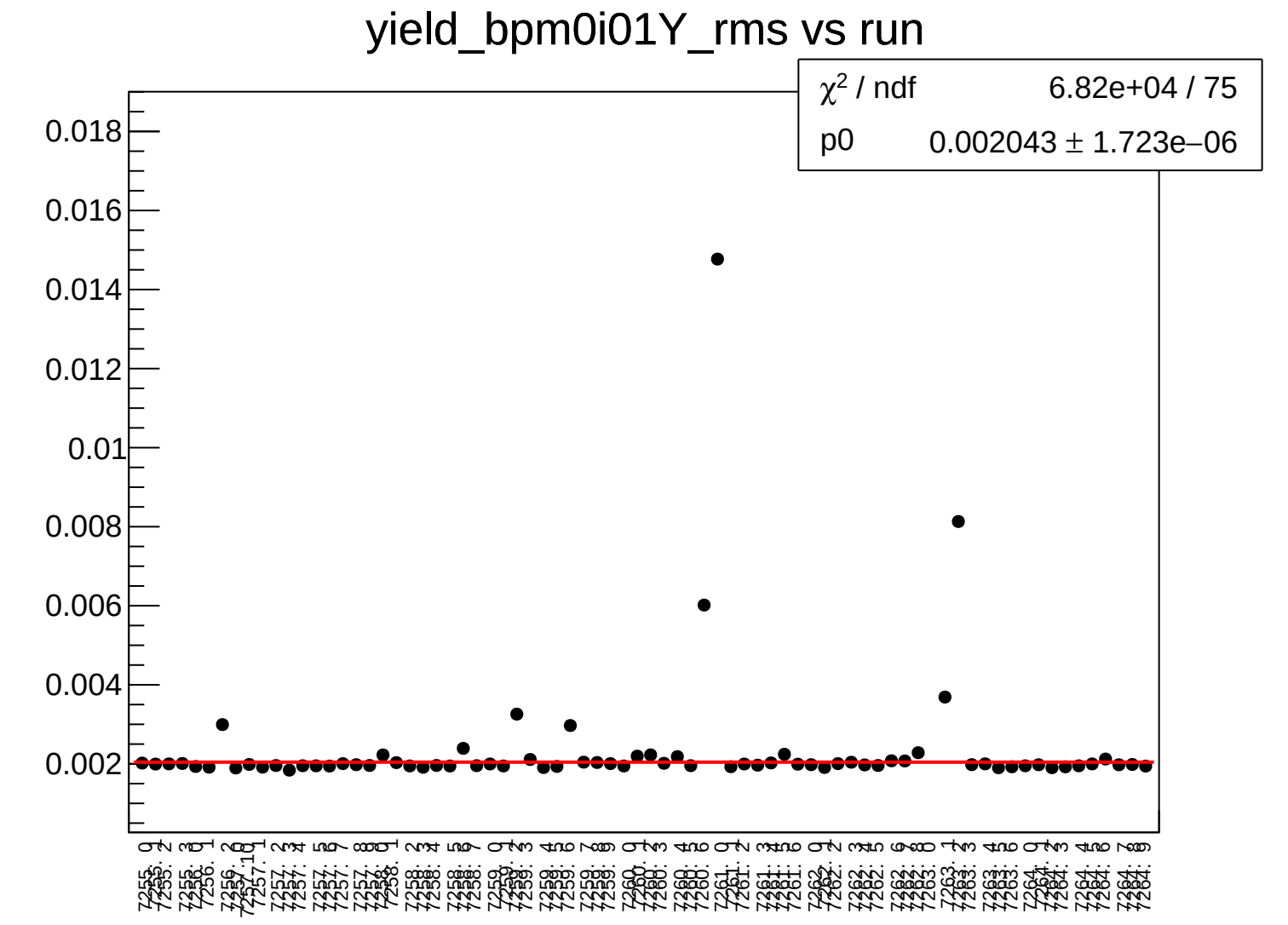

yield_bpm0i01X_mean vs run
χ² / ndf 4.185e+06 / 75
p0 −1.014 ± 7.55e−06
−0.99
−1
−1.01
−1.02
−1.03
pull
Entries 76
Mean −1129
Std Dev 1164
500
400
300
200
100
0
−100
−200
−300

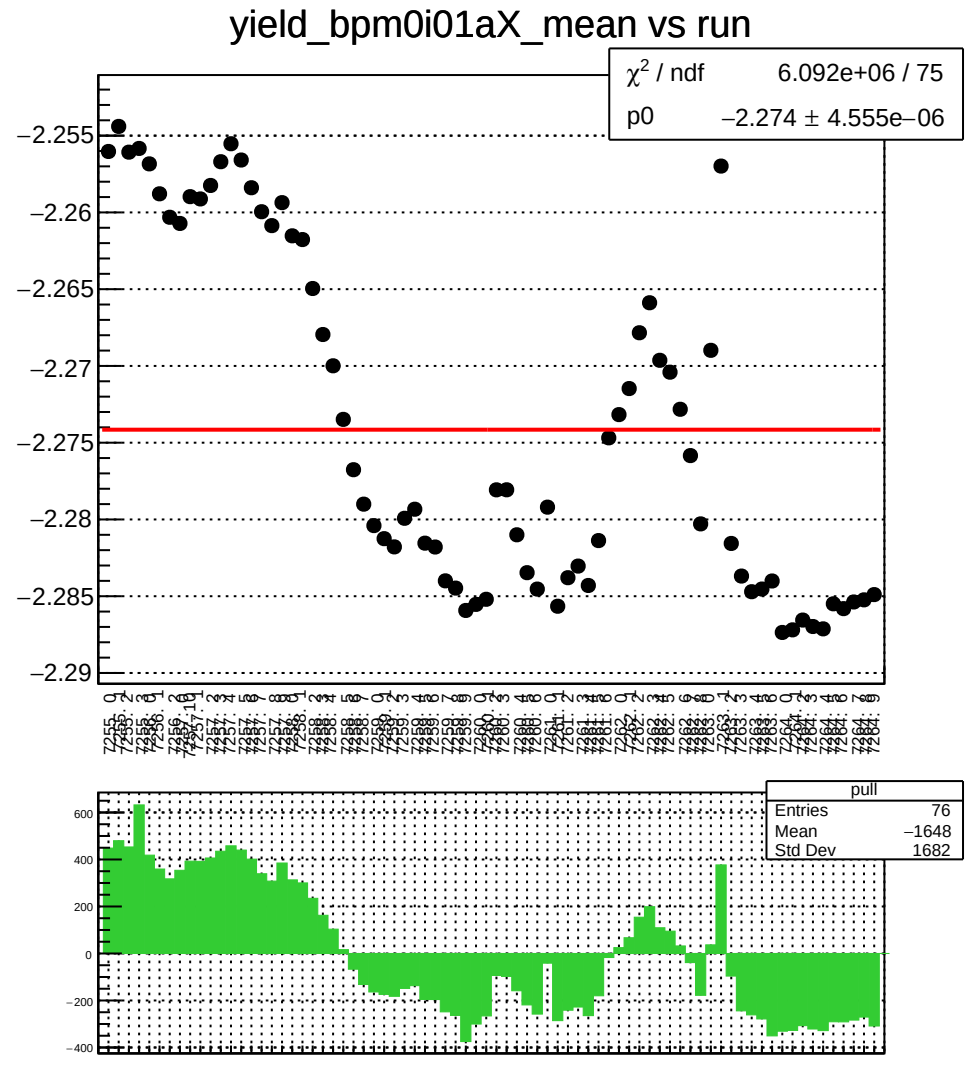

pull1D
Entries 76
Mean 7.747
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

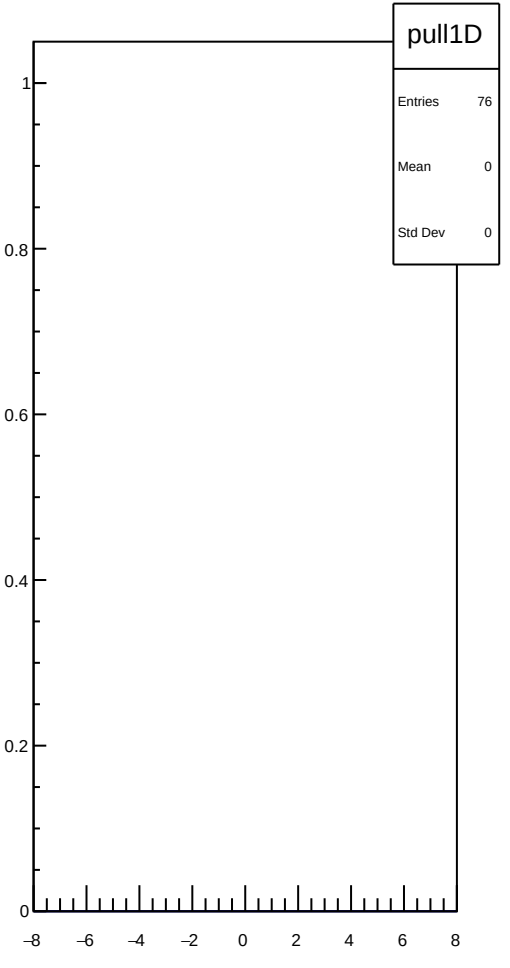

yield_bpm0i01X_rms vs run
χ² / ndf 1.422e+04 / 75
p0 0.006449 ± 5.339e−06
0.014
0.012
0.01
0.008
0.006

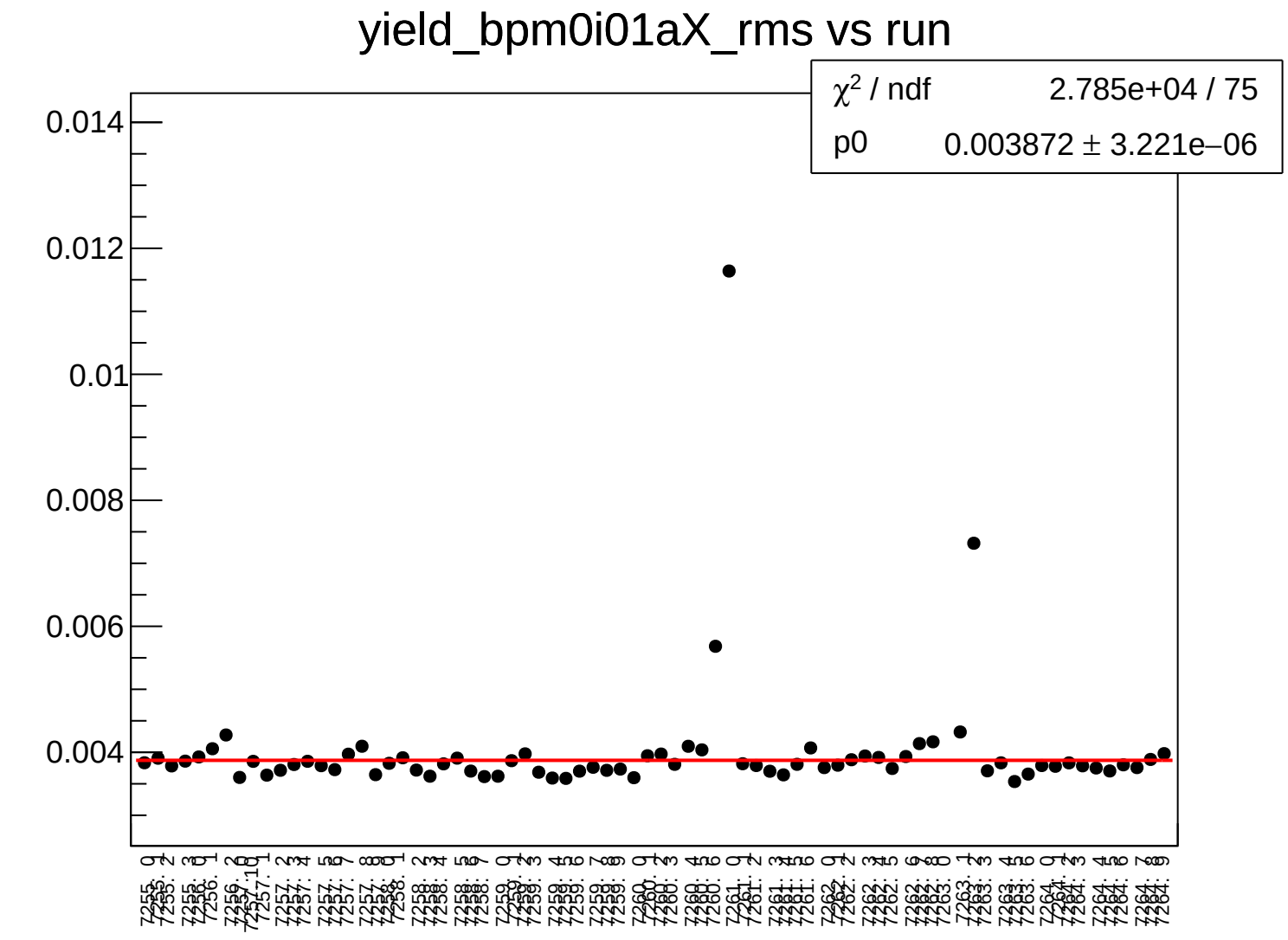

yield_bpm0i01Y_mean vs run
χ² / ndf 3.585e+07 / 75
p0 0.7364 ± 2.437e−06
0.76
0.75
0.74
0.73
0.72
pull
Entries 76
Mean −2124
Std Dev 2161
1500
1000
500
0
−500
−1000

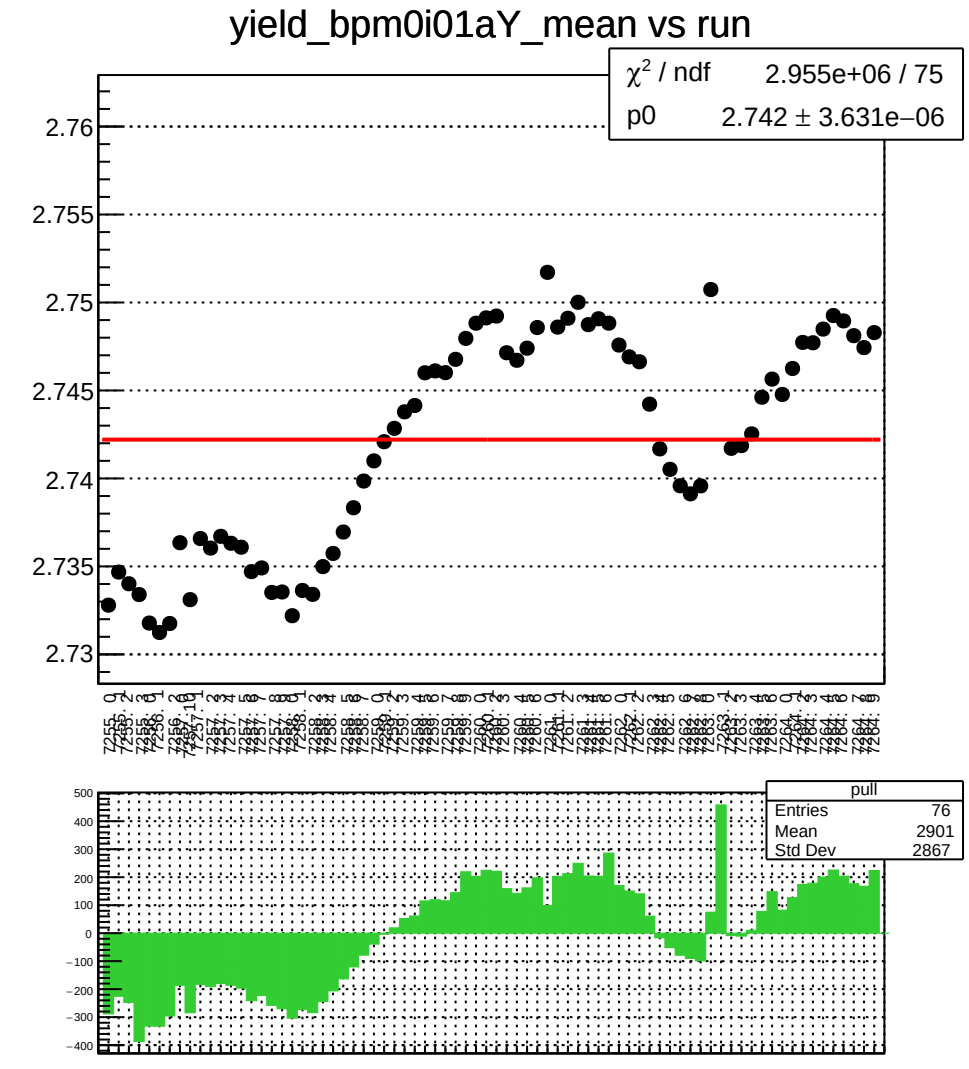

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

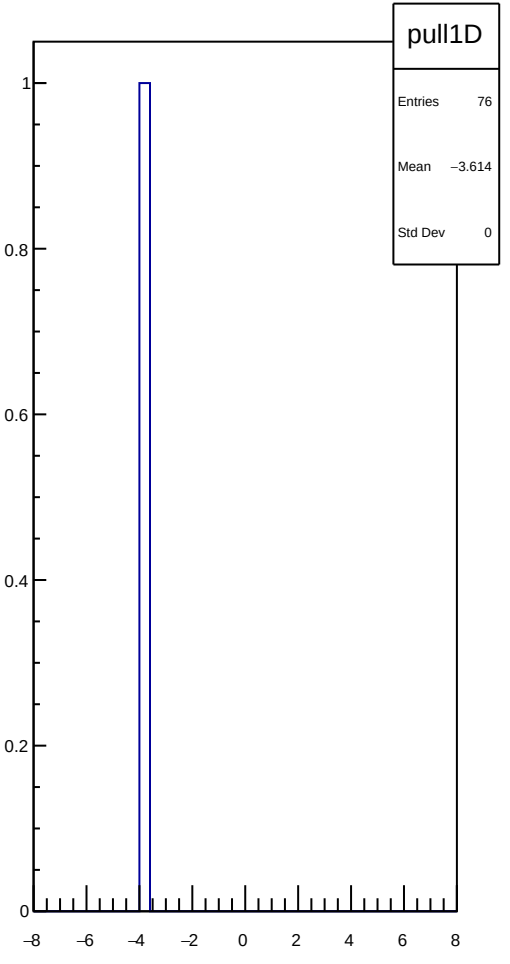

yield_bpm0i01Y_rms vs run
χ² / ndf 6.82e+04 / 75
p0 0.002043 ± 1.723e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

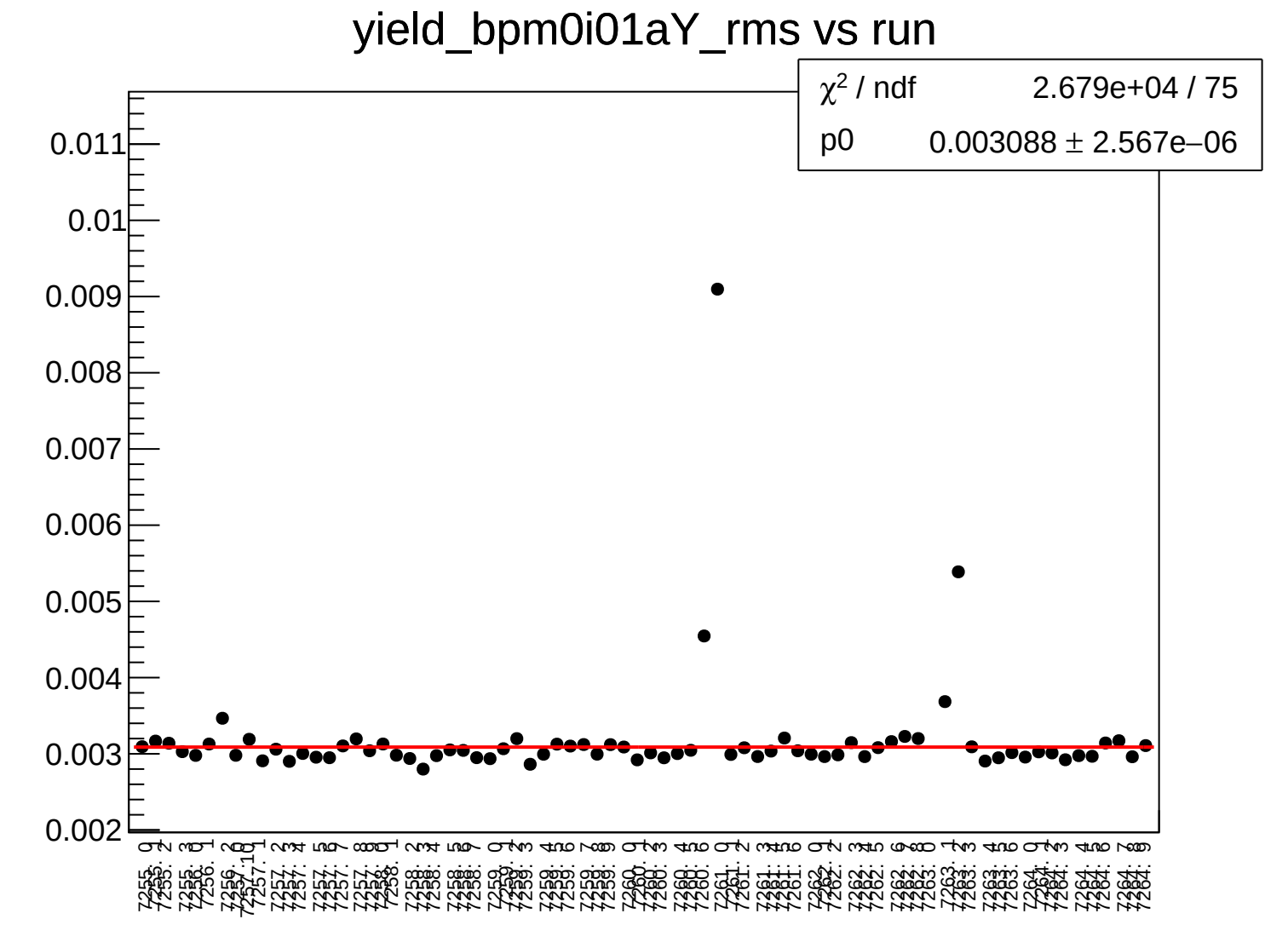

yield_bpm0i01aX_mean vs run
χ² / ndf 6.092e+06 / 75
p0 −2.274 ± 4.555e−06
−2.255
−2.26
−2.265
−2.27
−2.275
−2.28
−2.285
−2.29
pull
Entries 76
Mean −1648
Std Dev 1682
600
400
200
0
−200
−400

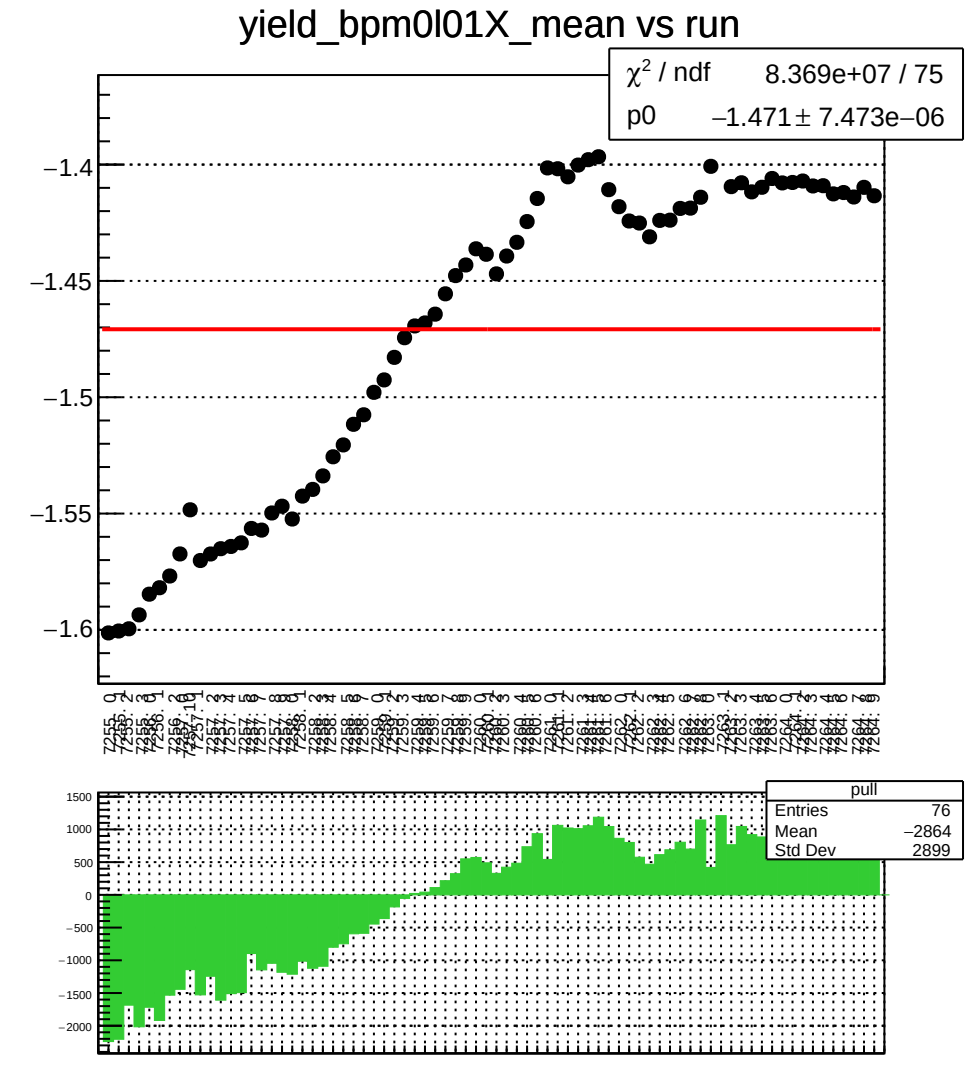

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

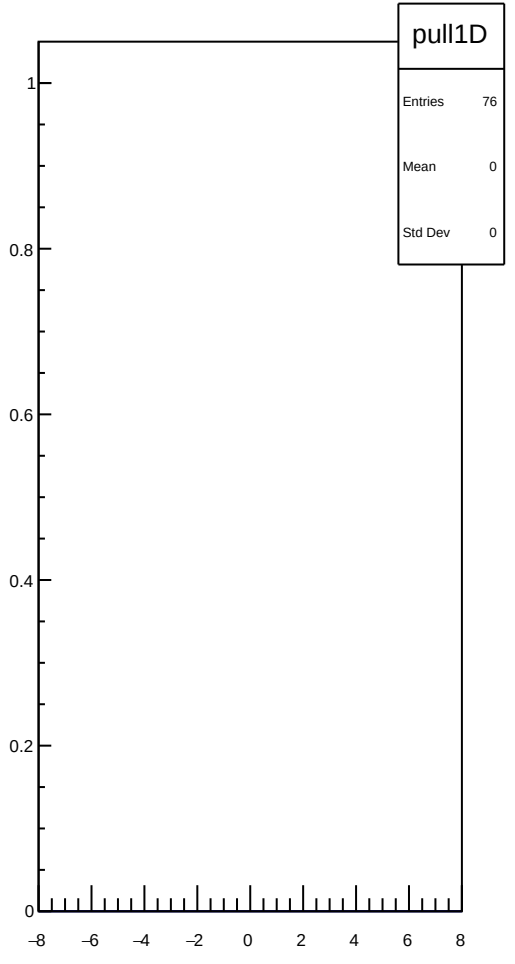

yield_bpm0i01aX_rms vs run
χ² / ndf 2.785e+04 / 75
p0 0.003872 ± 3.221e−06
0.014
0.012
0.01
0.008
0.006
0.004

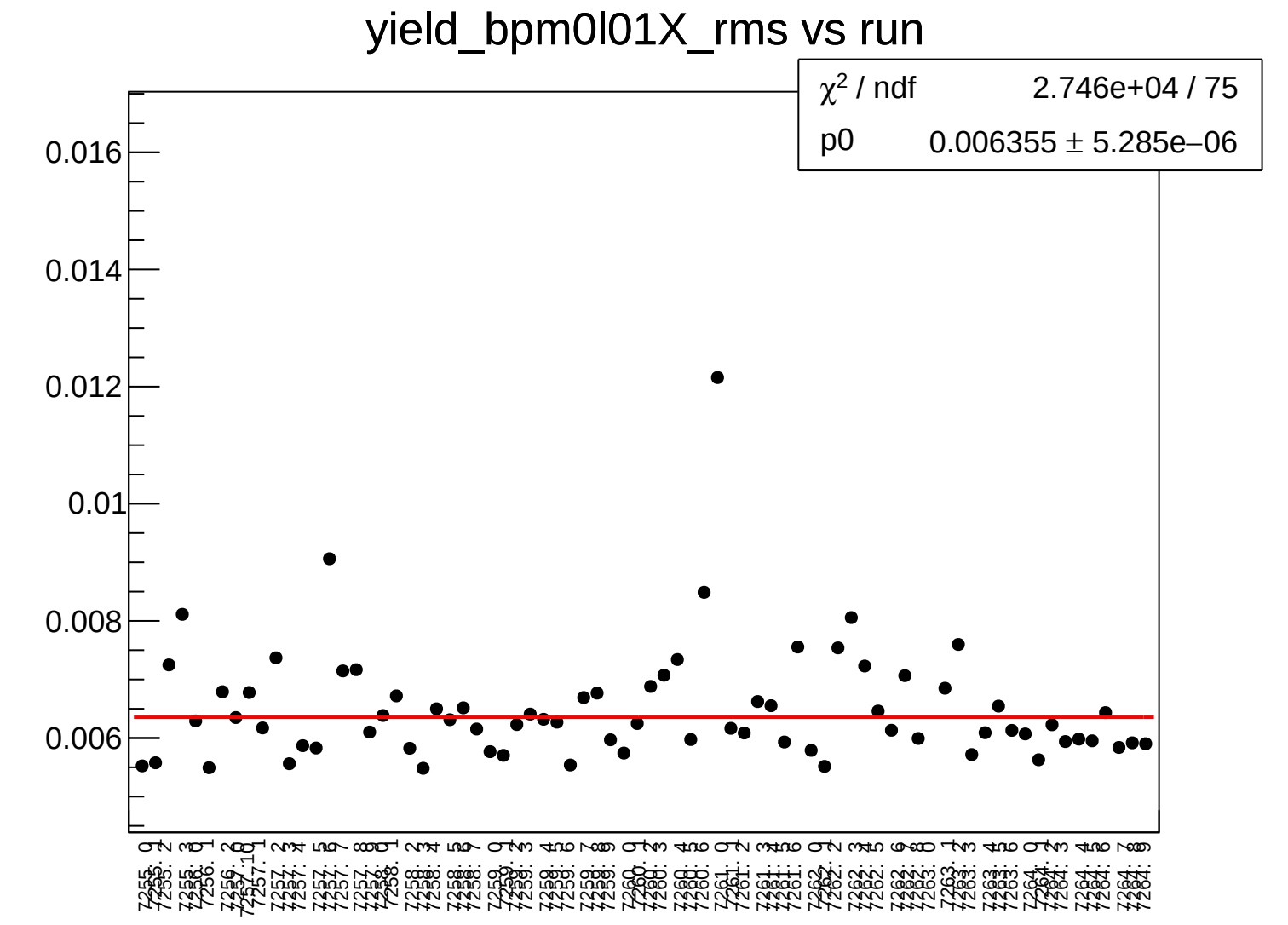

yield_bpm0i01aY_mean vs run
χ² / ndf 2.955e+06 / 75
p0 2.742 ± 3.631e−06
2.76
2.755
2.75
2.745
2.74
2.735
2.73
pull
Entries 76
Mean 2901
Std Dev 2867
500
400
300
200
100
0
−100
−200
−300
−400

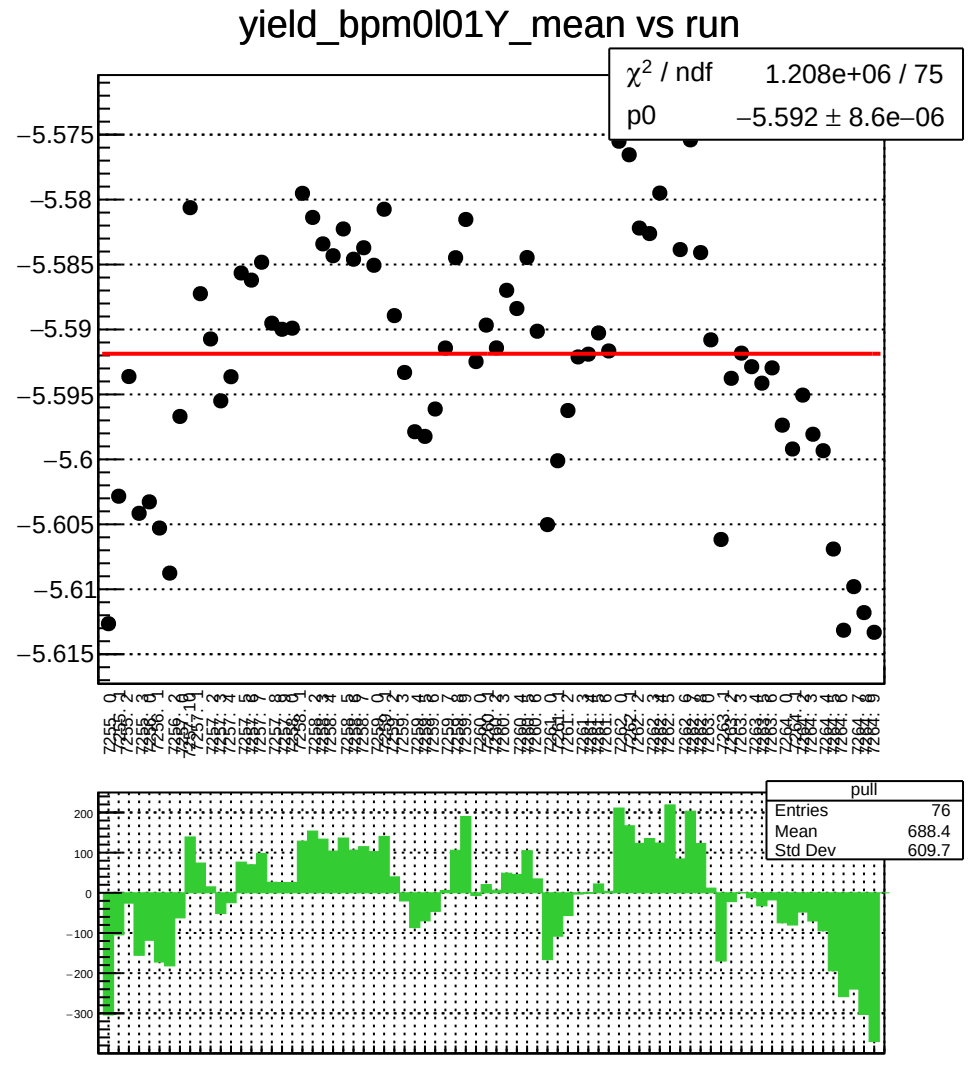

pull1D
Entries 76
Mean −3.614
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

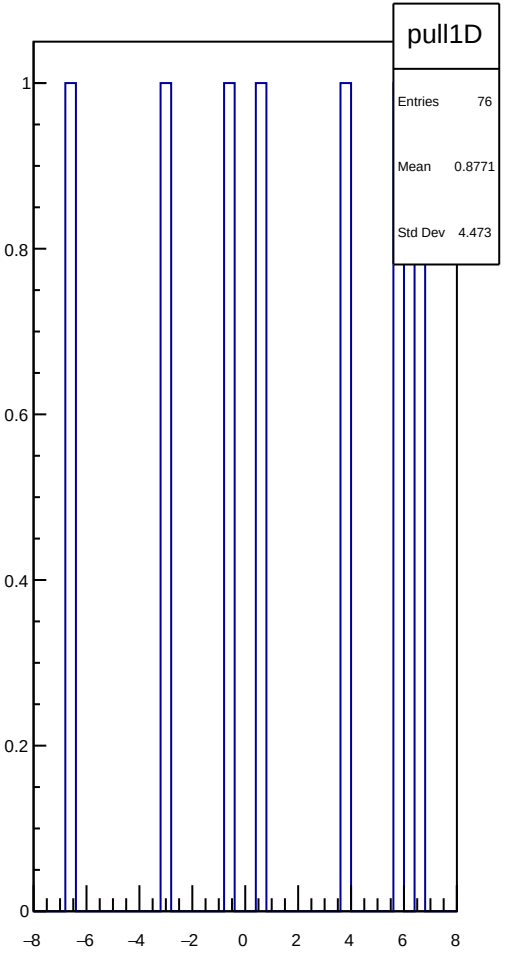

yield_bpm0i01aY_rms vs run
χ² / ndf 2.679e+04 / 75
p0 0.003088 ± 2.567e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

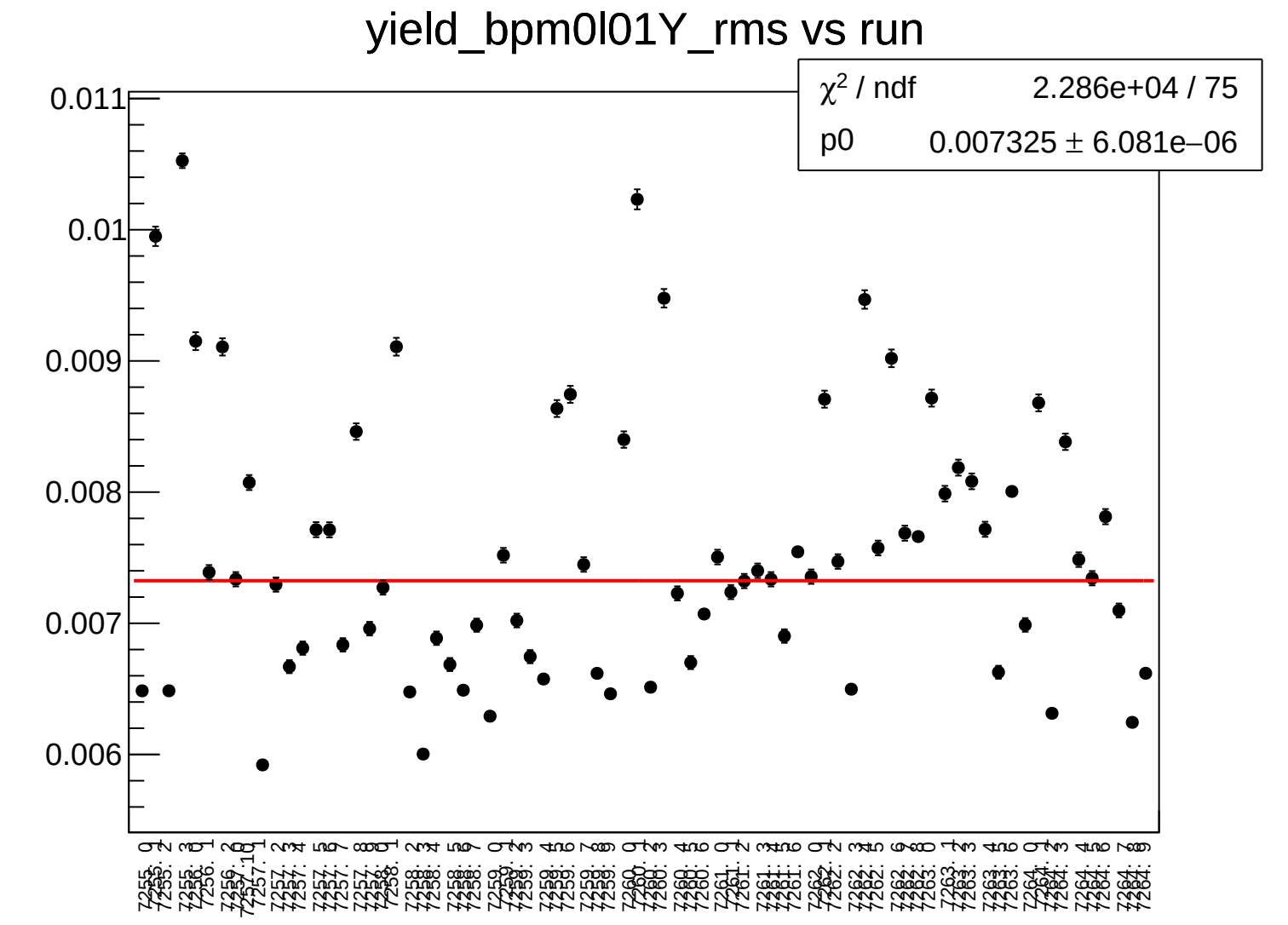

yield_bpm0l01X_mean vs run
χ² / ndf 8.369e+07 / 75
p0 −1.471 ± 7.473e−06
−1.4
−1.45
−1.5
−1.55
−1.6
pull
Entries 76
Mean −2864
Std Dev 2899
1500
1000
500
0
−500
−1000
−1500
−2000

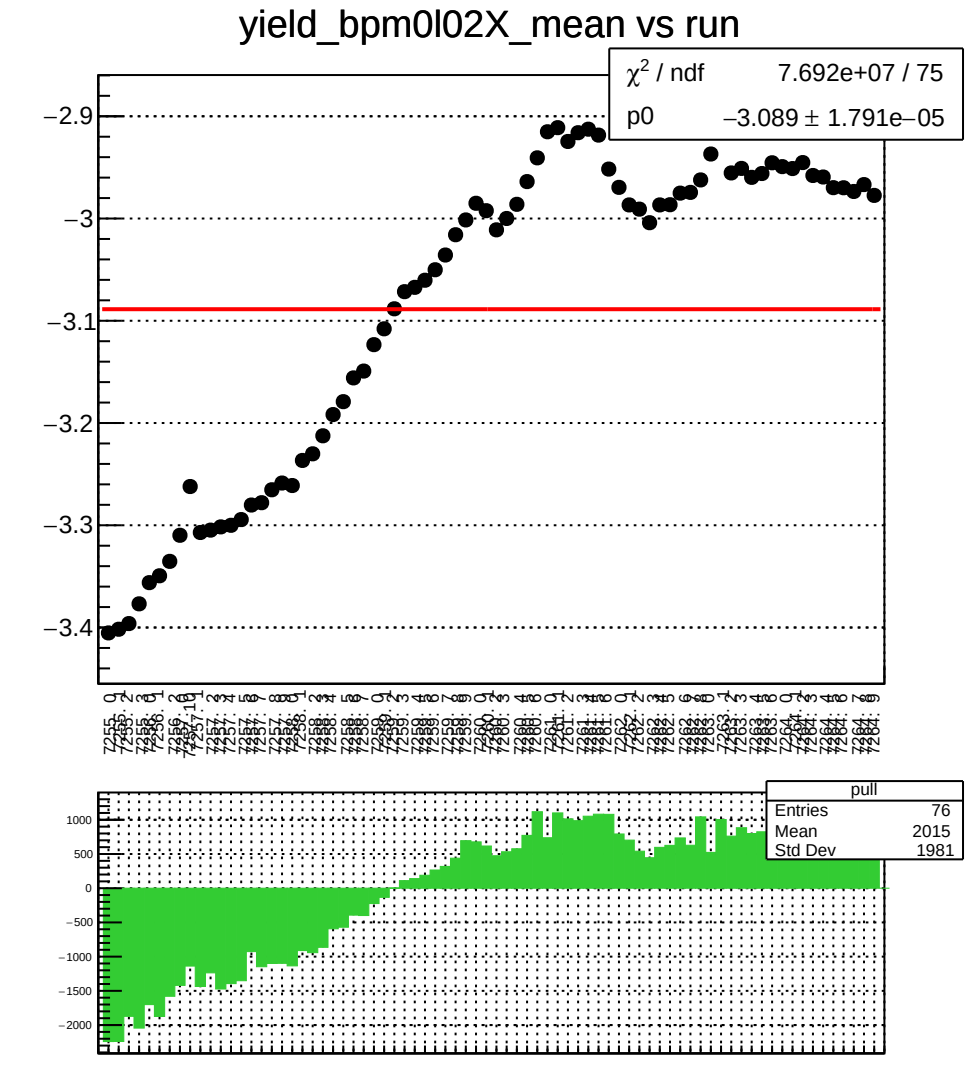

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

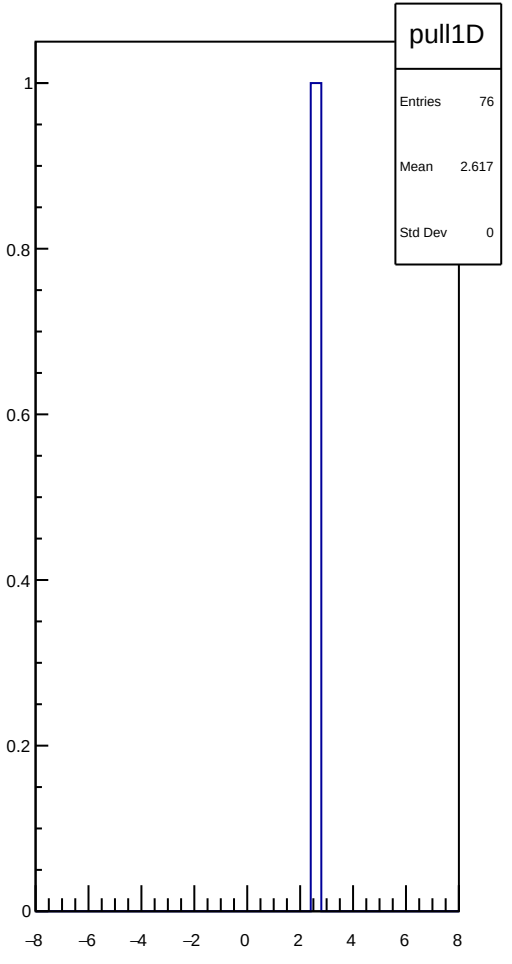

yield_bpm0l01X_rms vs run
χ² / ndf 2.746e+04 / 75
p0 0.006355 ± 5.285e−06
0.016
0.014
0.012
0.01
0.008
0.006

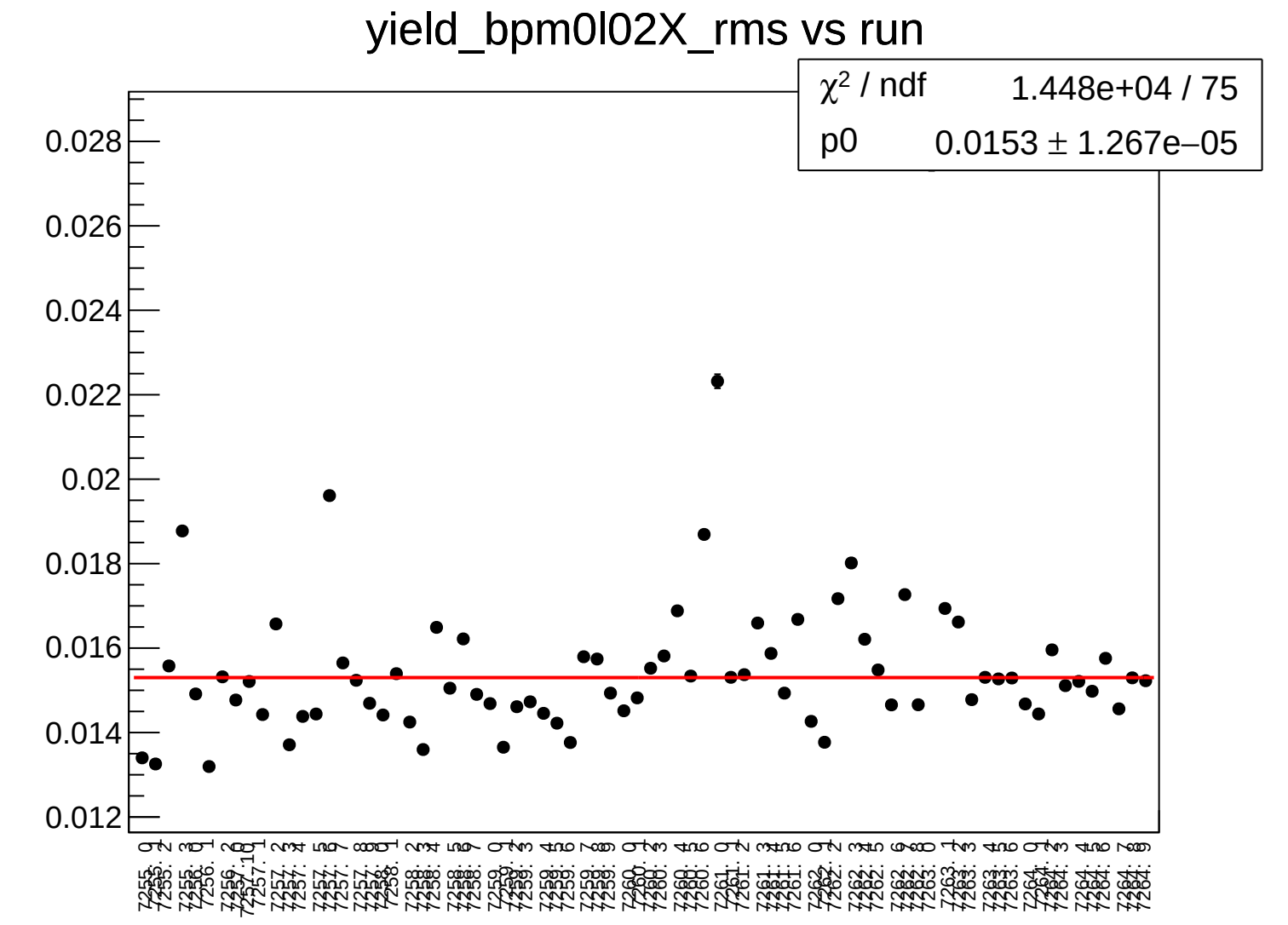

yield_bpm0l01Y_mean vs run
χ² / ndf 1.208e+06 / 75
p0 −5.592 ± 8.6e−06
−5.575
−5.58
−5.585
−5.59
−5.595
−5.6
−5.605
−5.61
−5.615
pull
Entries 76
Mean 688.4
Std Dev 609.7
200
100
0
−100
−200
−300

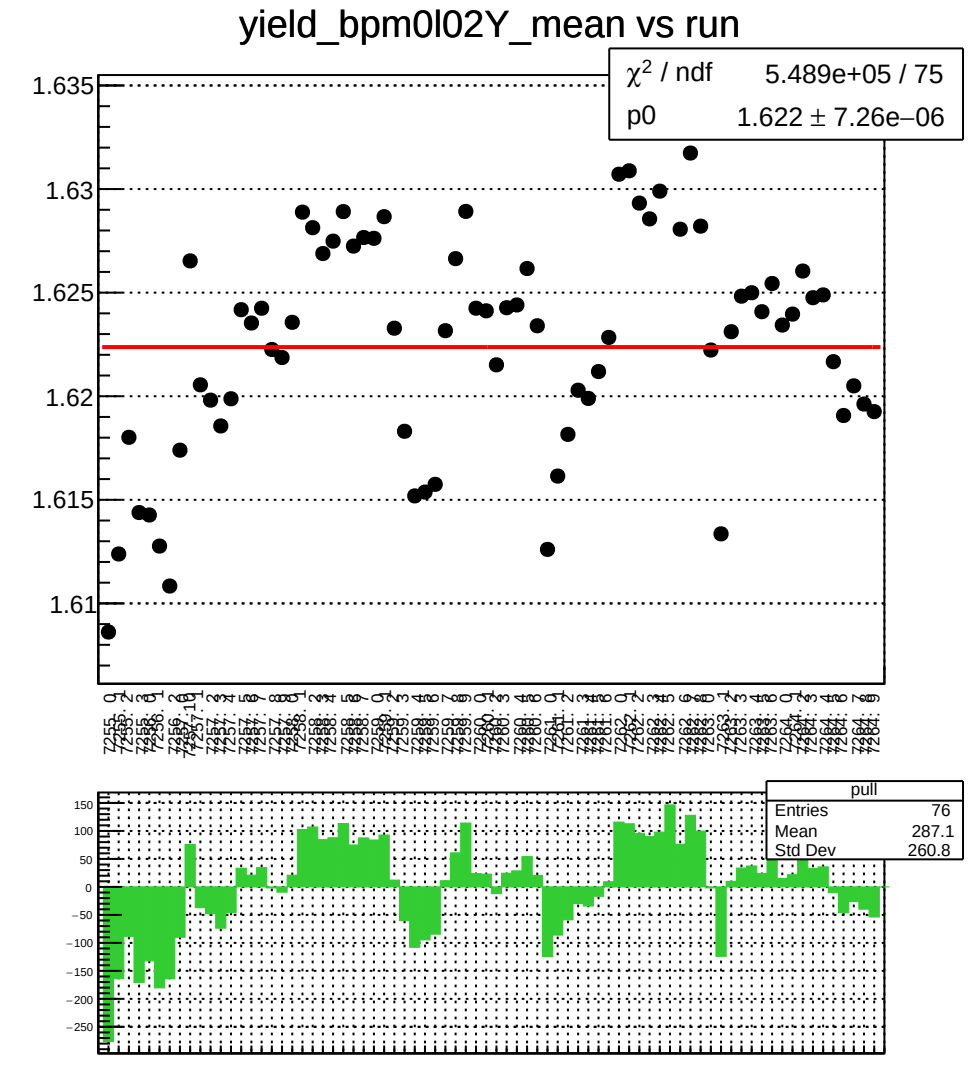

pull1D
Entries 76
Mean 0.8771
Std Dev 4.473
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

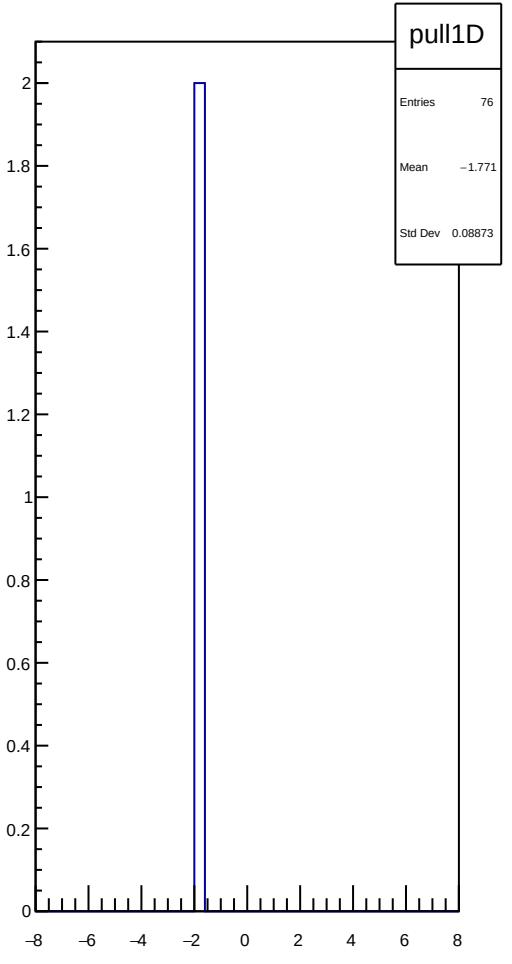

yield_bpm0l01Y_rms vs run
χ² / ndf 2.286e+04 / 75
p0 0.007325 ± 6.081e−06
0.011
0.01
0.009
0.008
0.007
0.006


yield_bpm0l02X_mean vs run
χ² / ndf 7.692e+07 / 75
p0 −3.089 ± 1.791e−05
−2.9
−3
−3.1
−3.2
−3.3
−3.4
pull
Entries 76
Mean 2015
Std Dev 1981
1000
500
0
−500
−1000
−1500
−2000

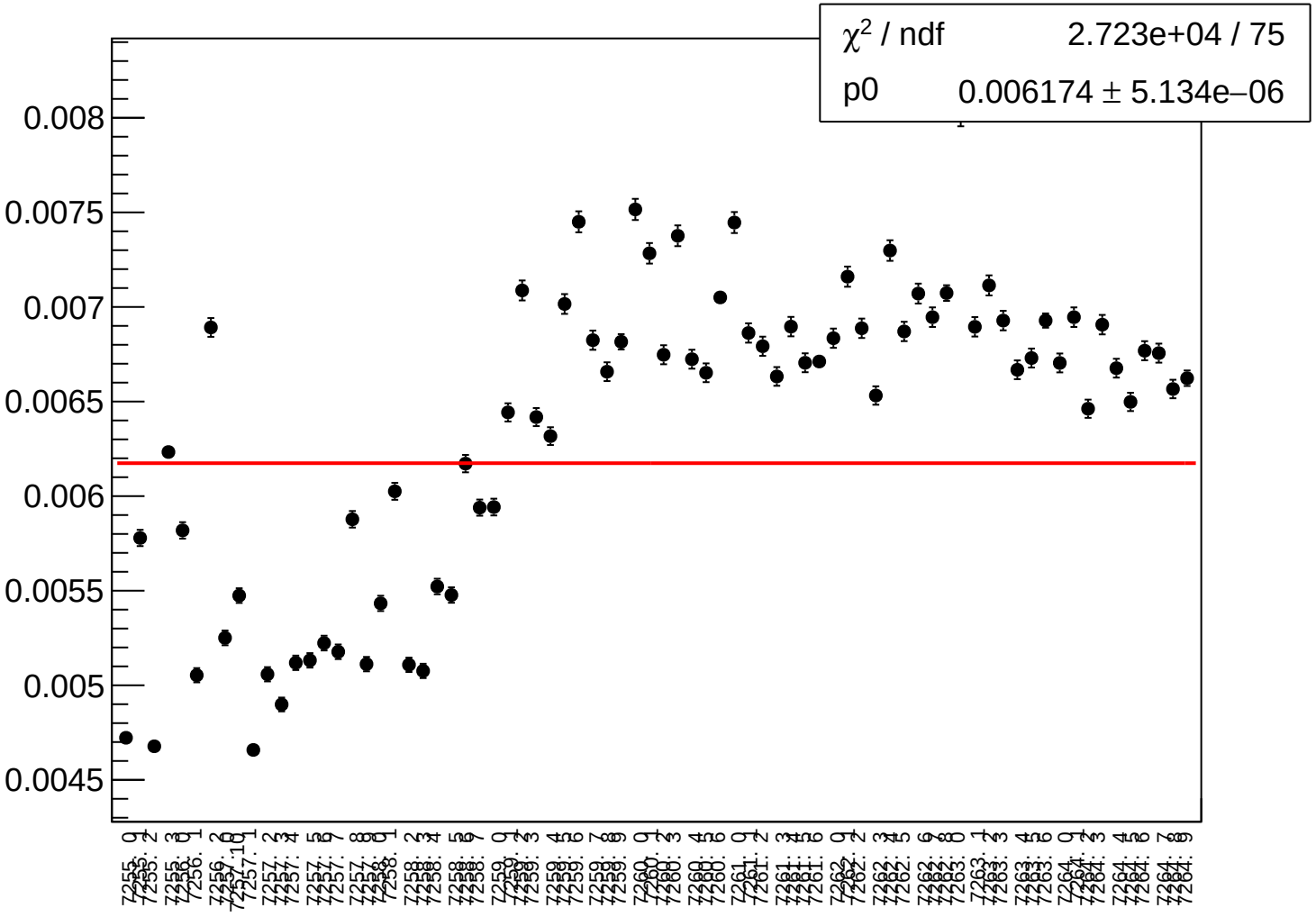

pull1D
Entries 76
Mean 2.617
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

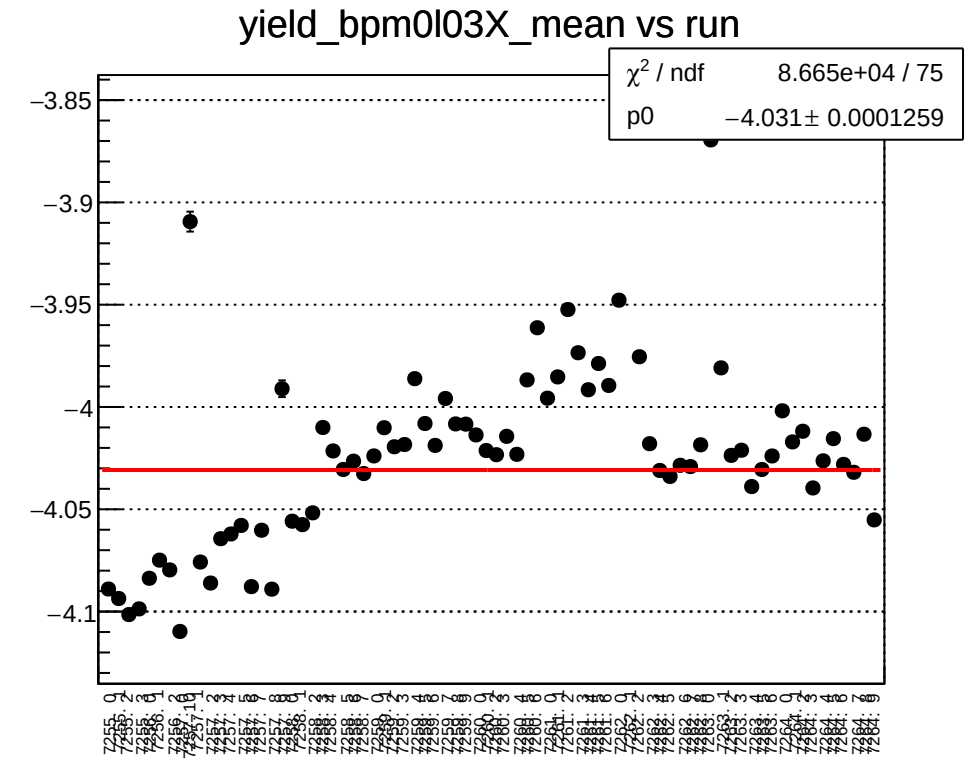

yield_bpm0l02X_rms vs run
χ² / ndf 1.448e+04 / 75
p0 0.0153 ± 1.267e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

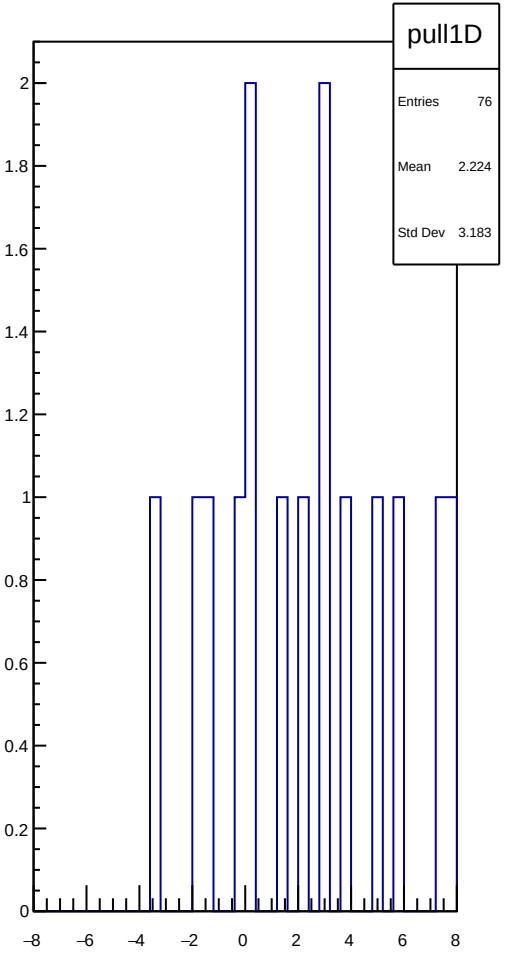

yield_bpm0l02Y_mean vs run
χ² / ndf 5.489e+05 / 75
p0 1.622 ± 7.26e−06
1.635
1.63
1.625
1.62
1.615
1.61
pull
Entries 76
Mean 287.1
Std Dev 260.8
150
100
50
0
−50
−100
−150
−200
−250

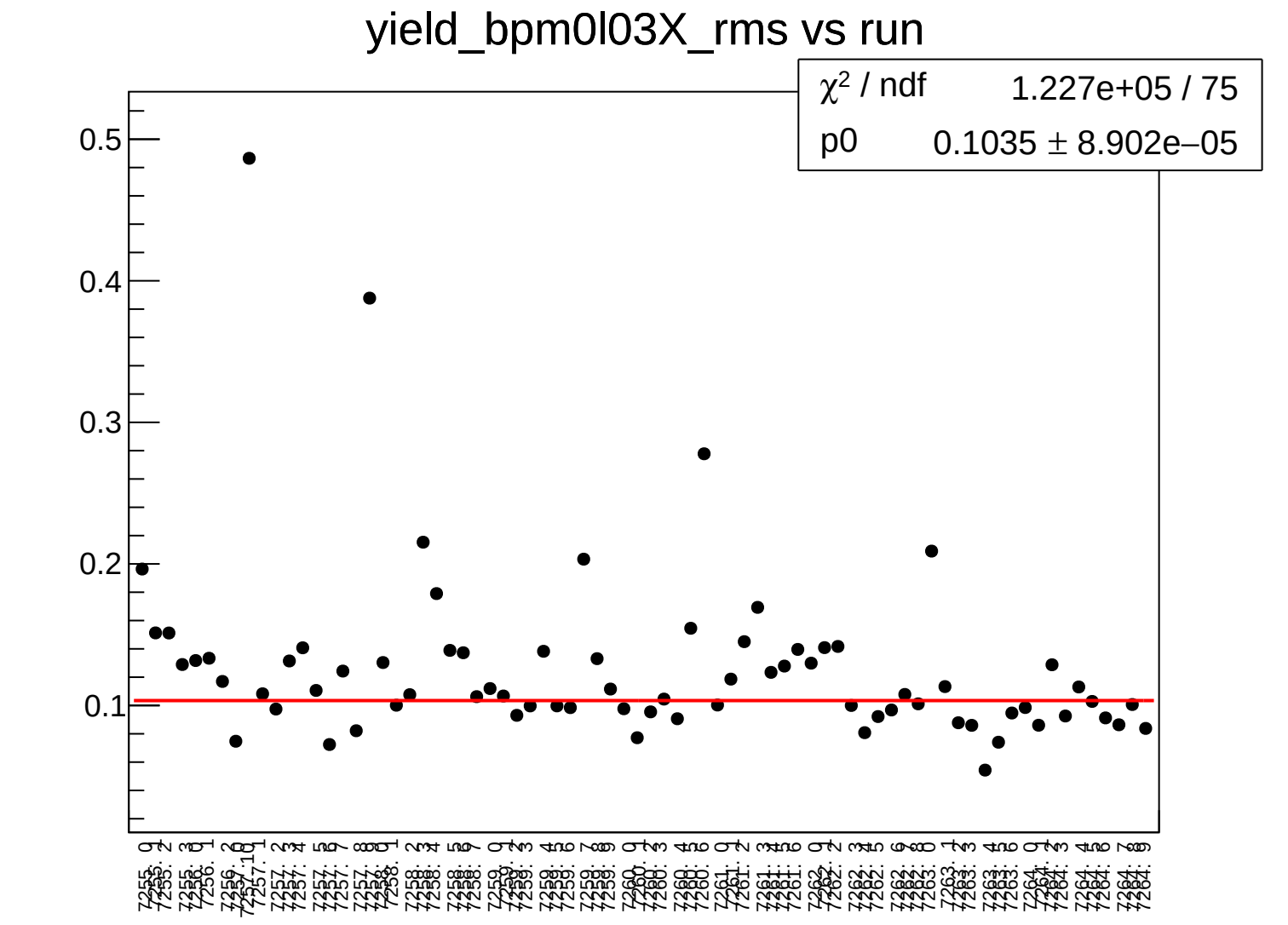

pull1D
Entries 76
Mean −1.771
Std Dev 0.08873
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

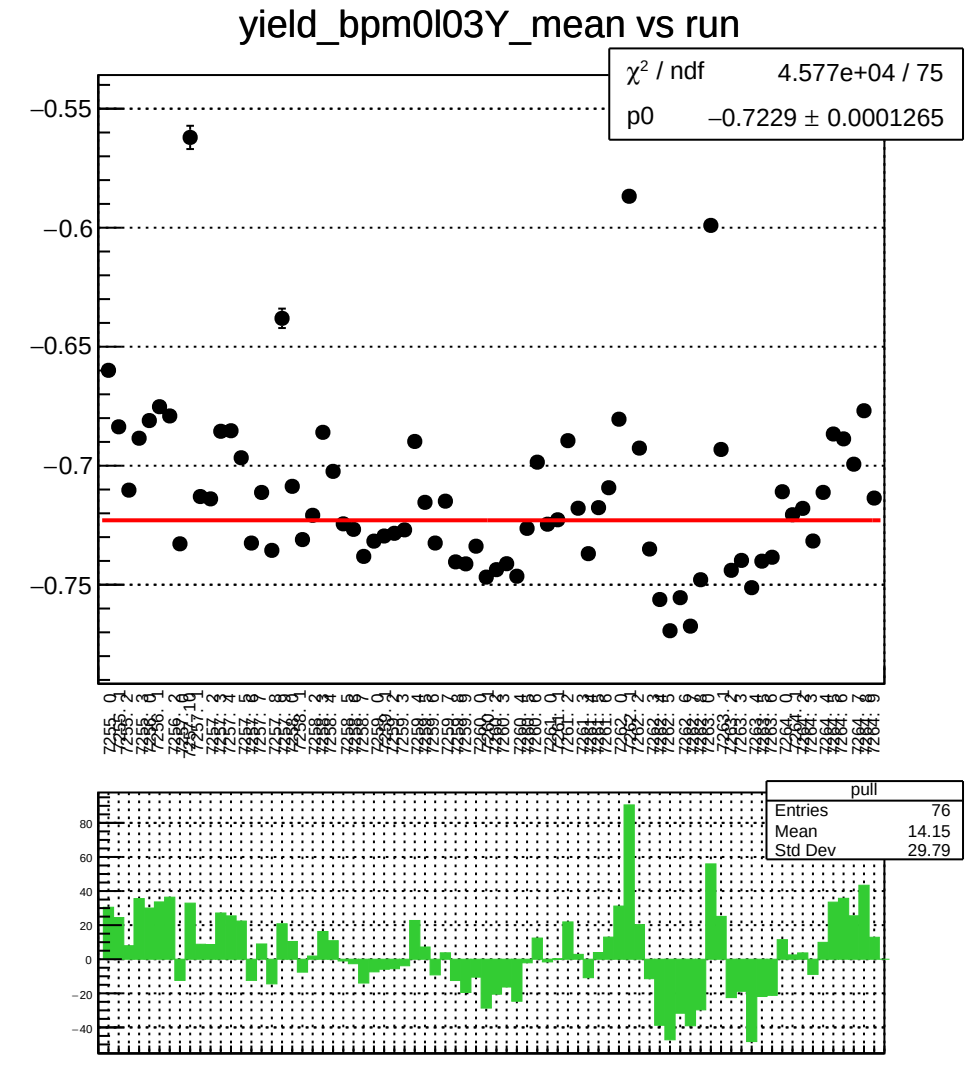
yield_bpm0l02Y_rms vs run

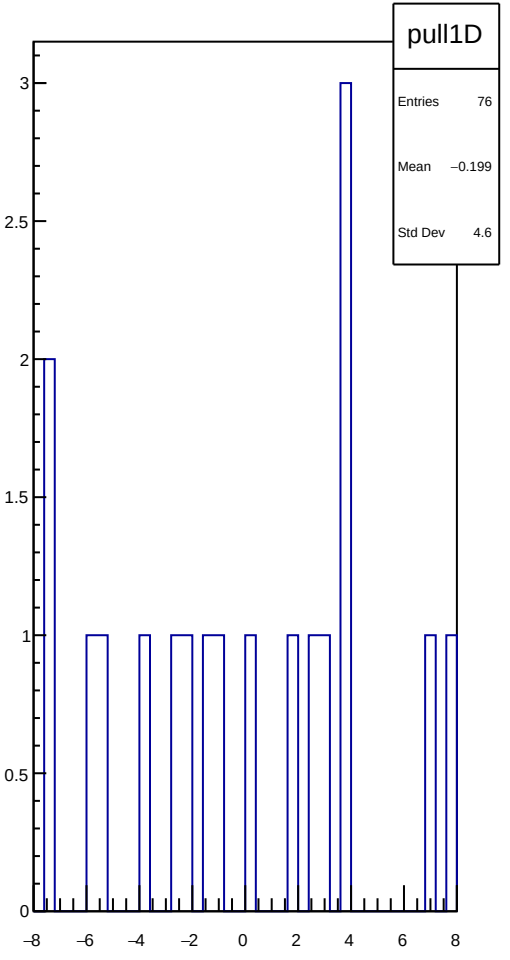


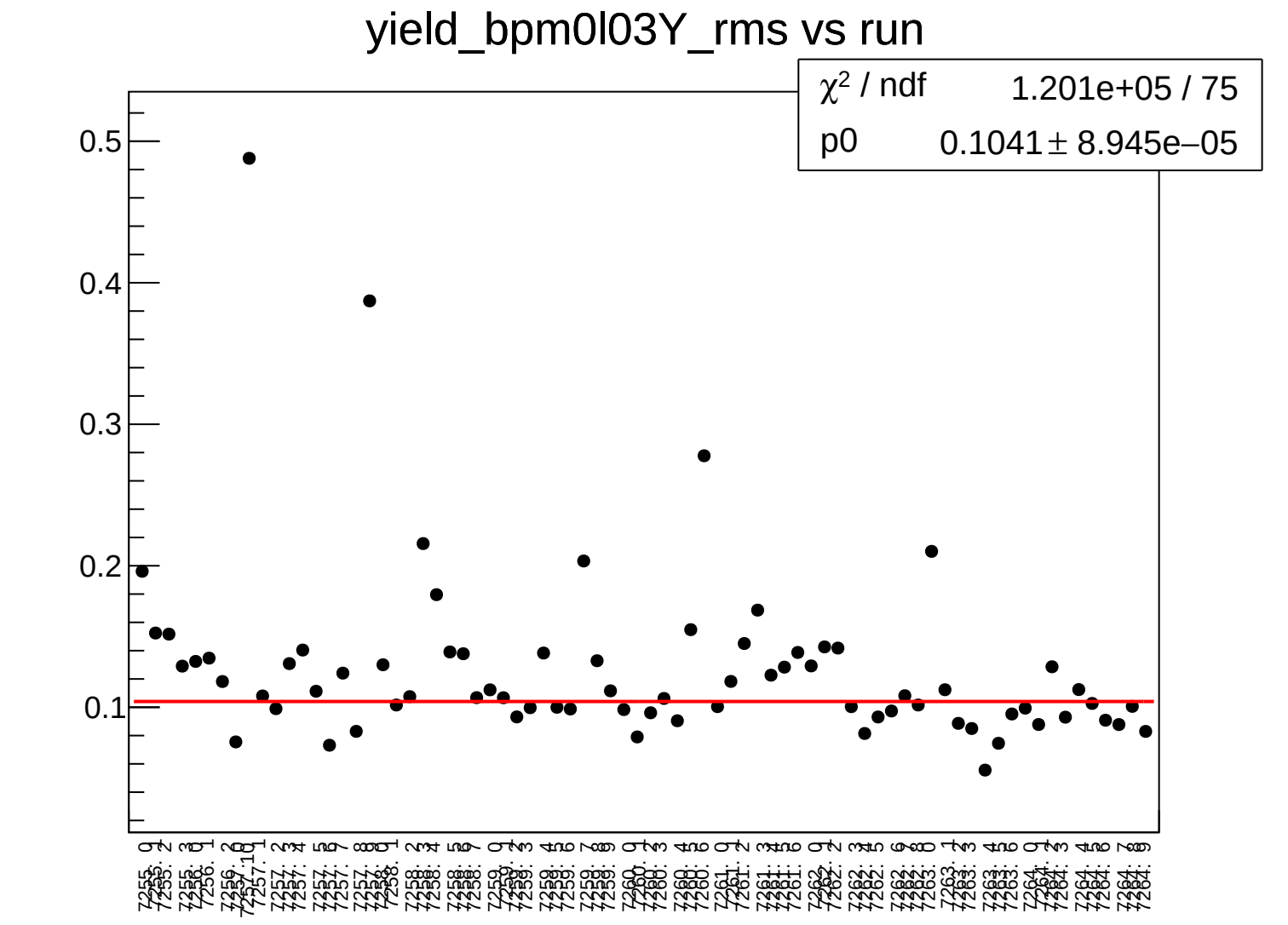

yield_bpm0l03X_mean vs run
χ² / ndf 8.665e+04 / 75
p0 −4.031± 0.0001259
−3.85
−3.9
−3.95
−4
−4.05
−4.1
pull
Entries 76
Mean 165.7
Std Dev 135.1
100
50
0
−50
−100

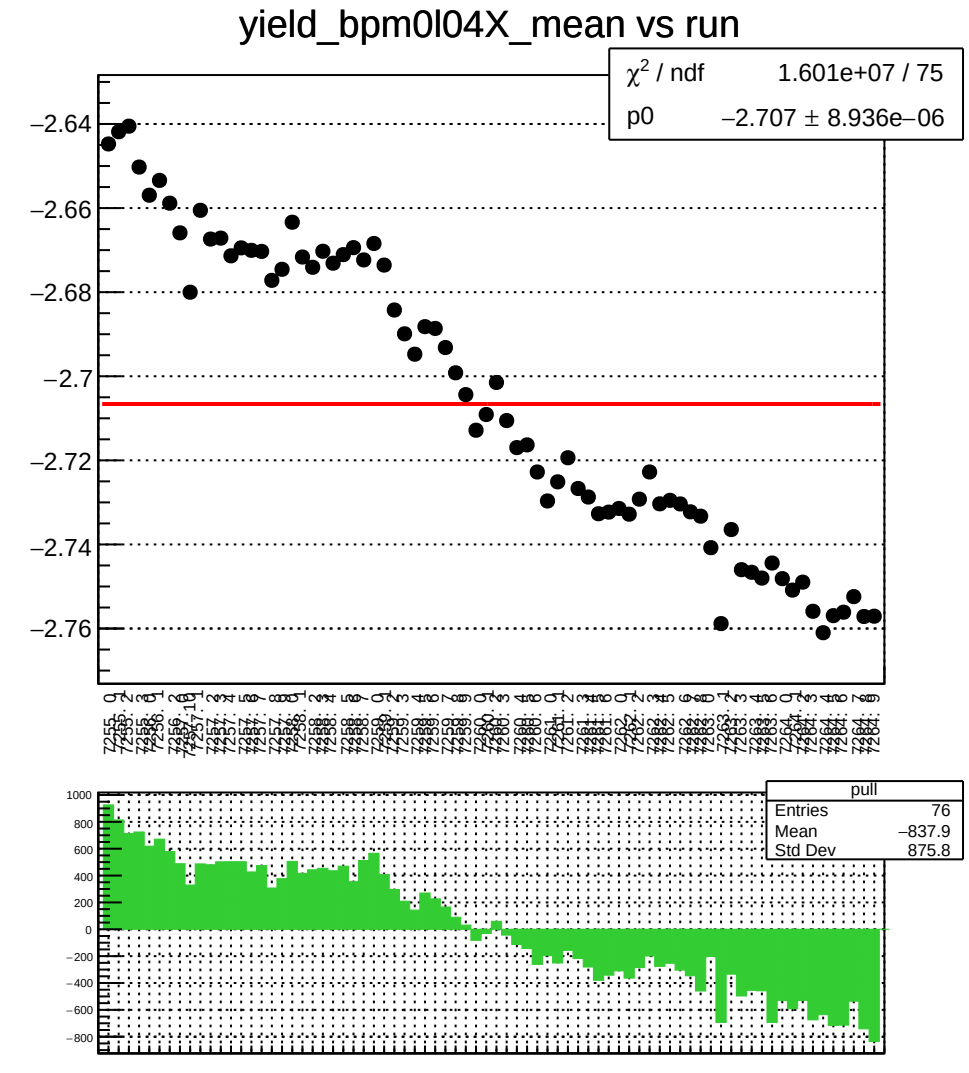

pull1D
Entries 76
Mean 2.224
Std Dev 3.183
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

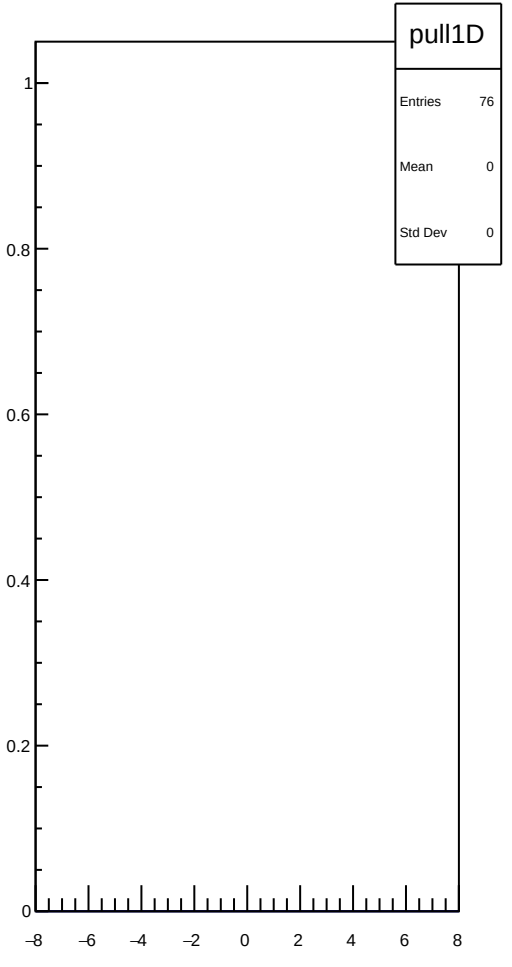

yield_bpm0l03X_rms vs run
χ² / ndf 1.227e+05 / 75
p0 0.1035 ± 8.902e−05
0.5
0.4
0.3
0.2
0.1

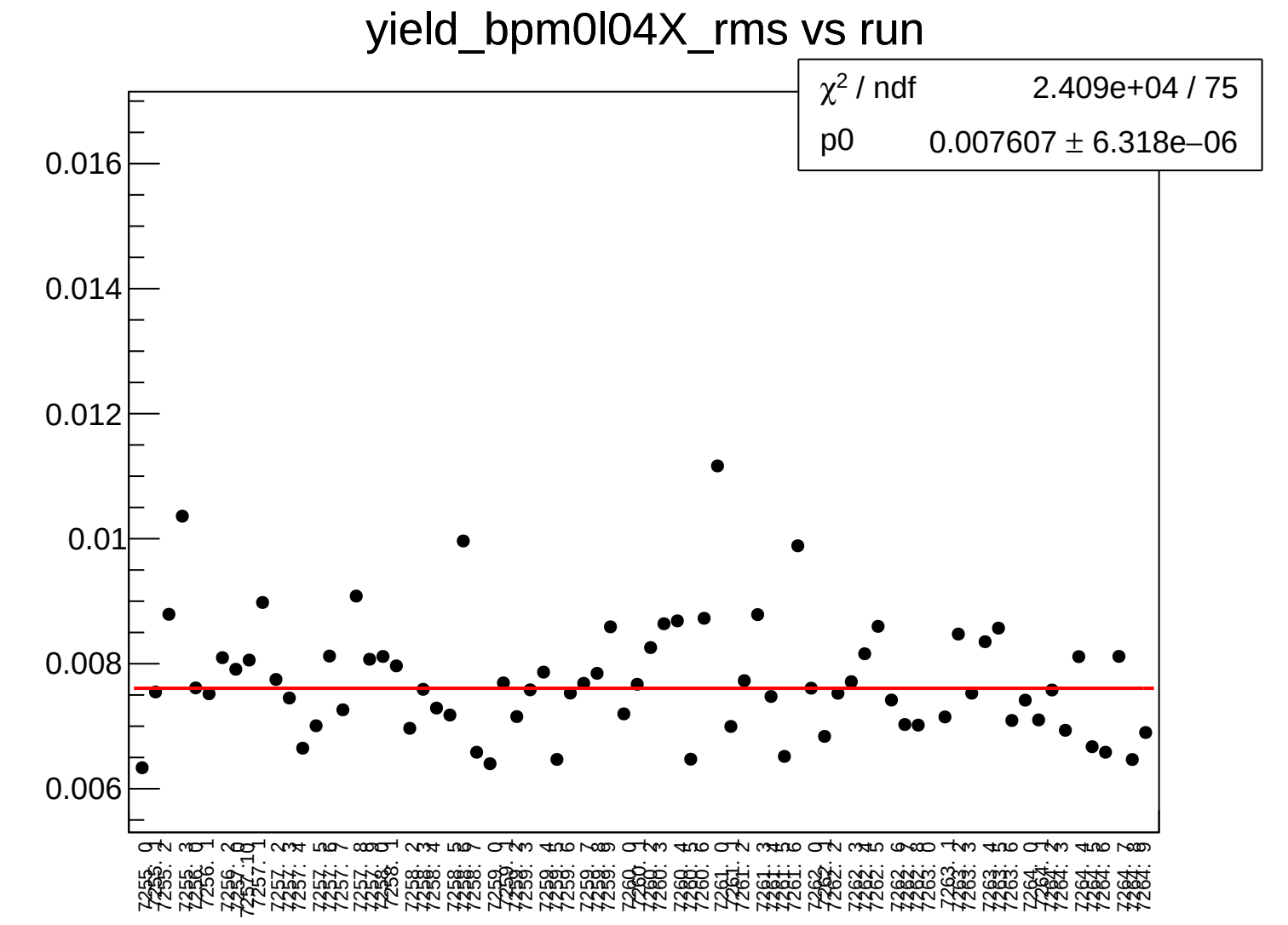

yield_bpm0l03Y_mean vs run
χ² / ndf 4.577e+04 / 75
p0 −0.7229 ± 0.0001265
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 76
Mean 14.15
Std Dev 29.79
80
60
40
20
0
−20
−40

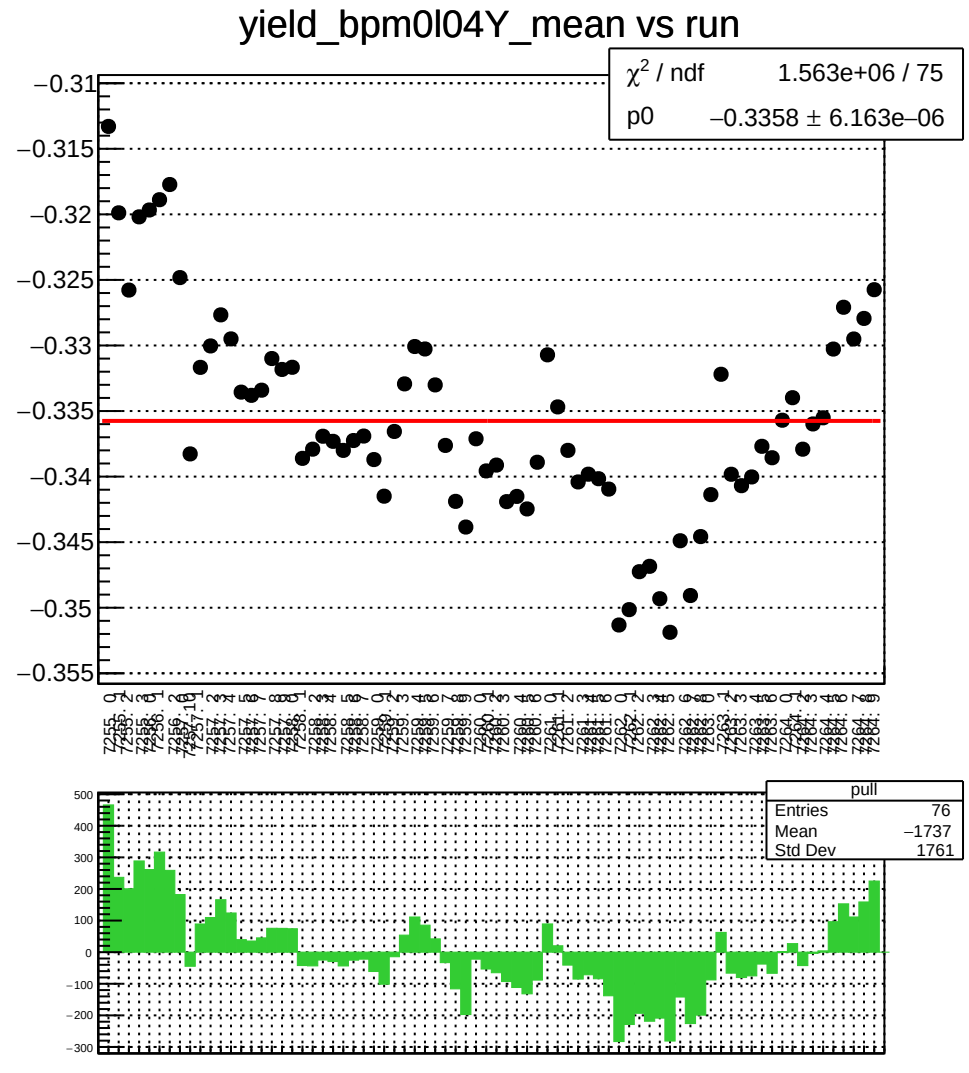

pull1D
Entries 76
Mean −0.199
Std Dev 4.6
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

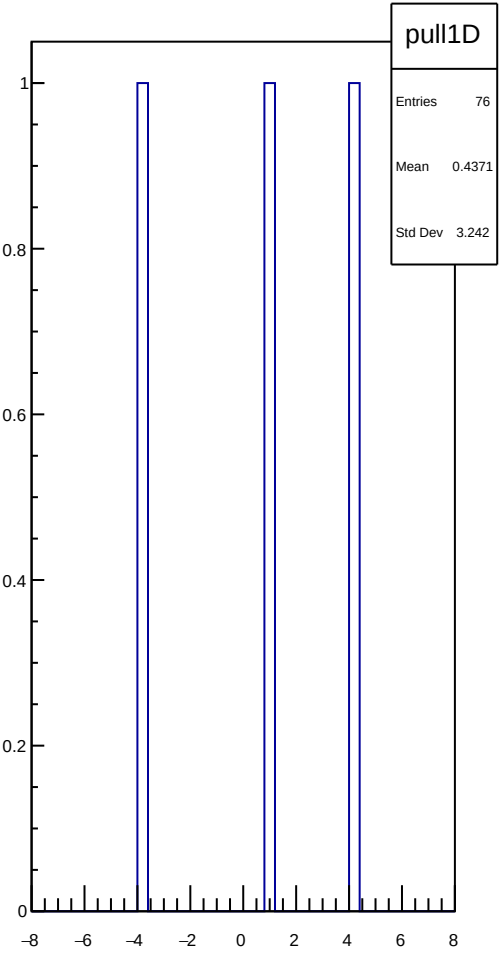

yield_bpm0l03Y_rms vs run
χ² / ndf 1.201e+05 / 75
p0 0.1041 ± 8.945e−05
0.5
0.4
0.3
0.2
0.1

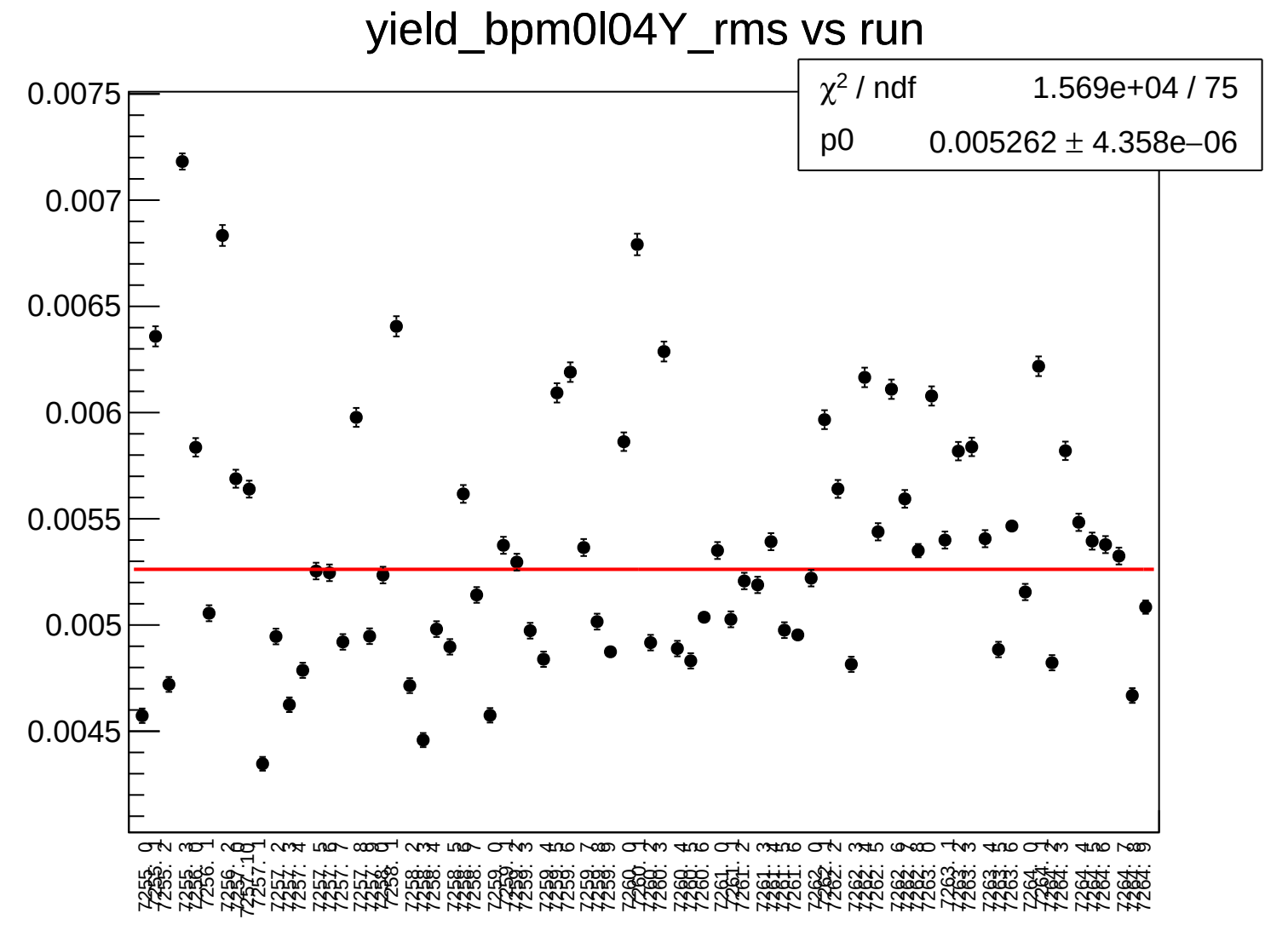

yield_bpm0l04X_mean vs run
χ² / ndf 1.601e+07 / 75
p0 −2.707 ± 8.936e−06
−2.64
−2.66
−2.68
−2.7
−2.72
−2.74
−2.76
pull
Entries 76
Mean −837.9
Std Dev 875.8
1000
800
600
400
200
0
−200
−400
−600
−800

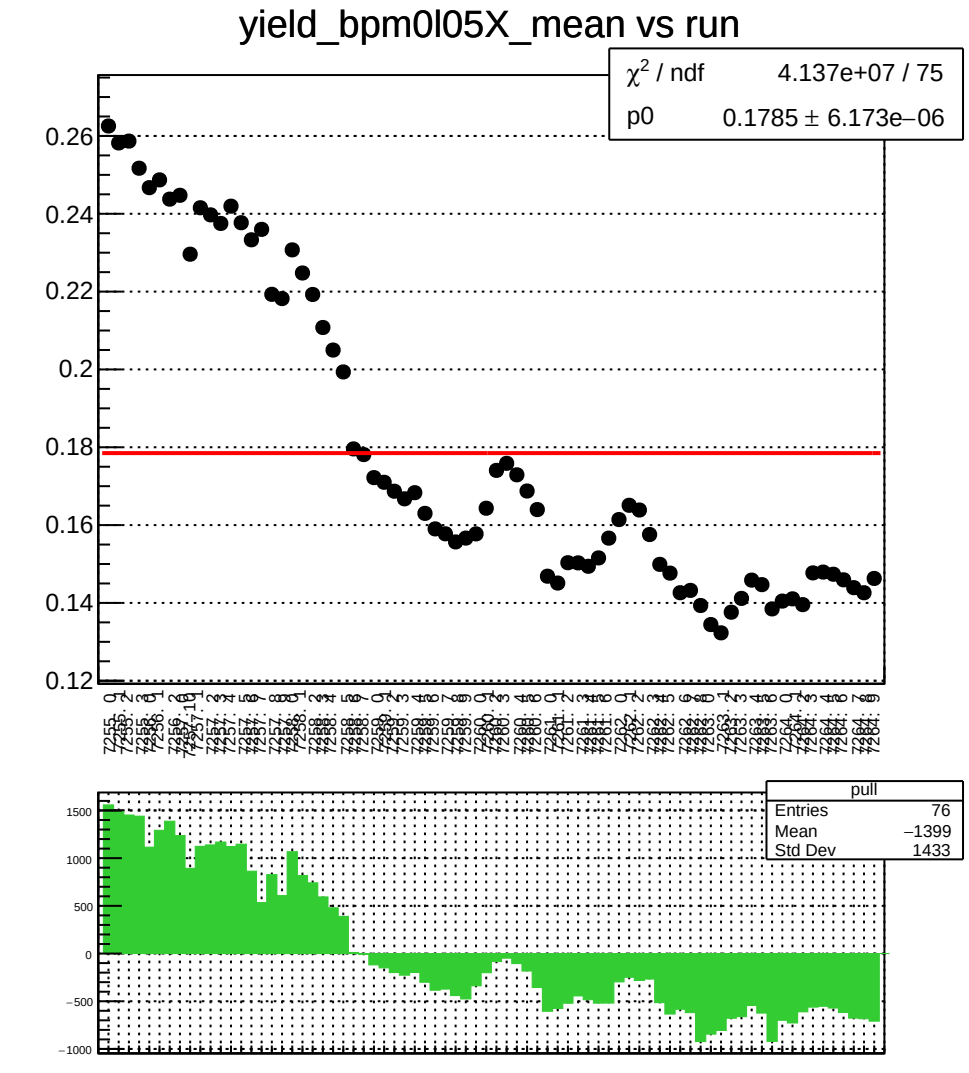

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

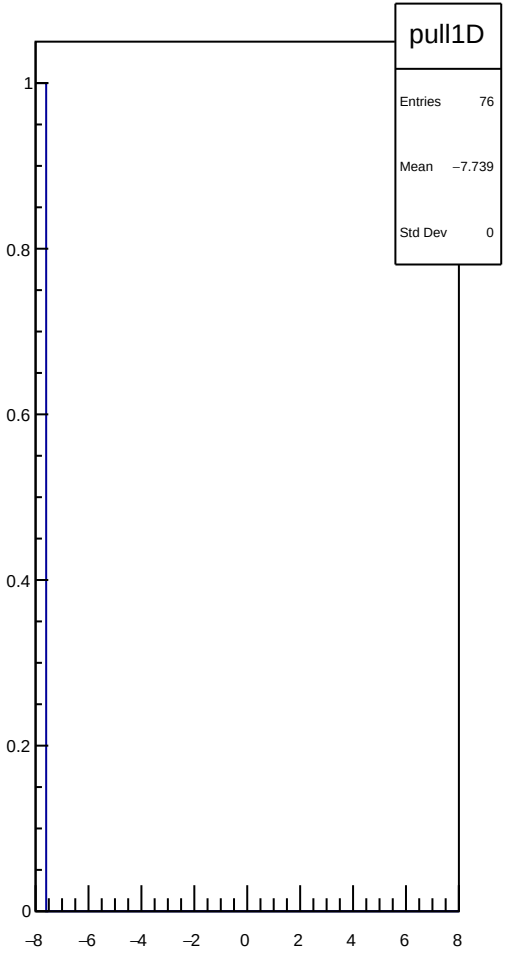

yield_bpm0l04X_rms vs run
χ² / ndf 2.409e+04 / 75
p0 0.007607 ± 6.318e−06
0.016
0.014
0.012
0.01
0.008
0.006

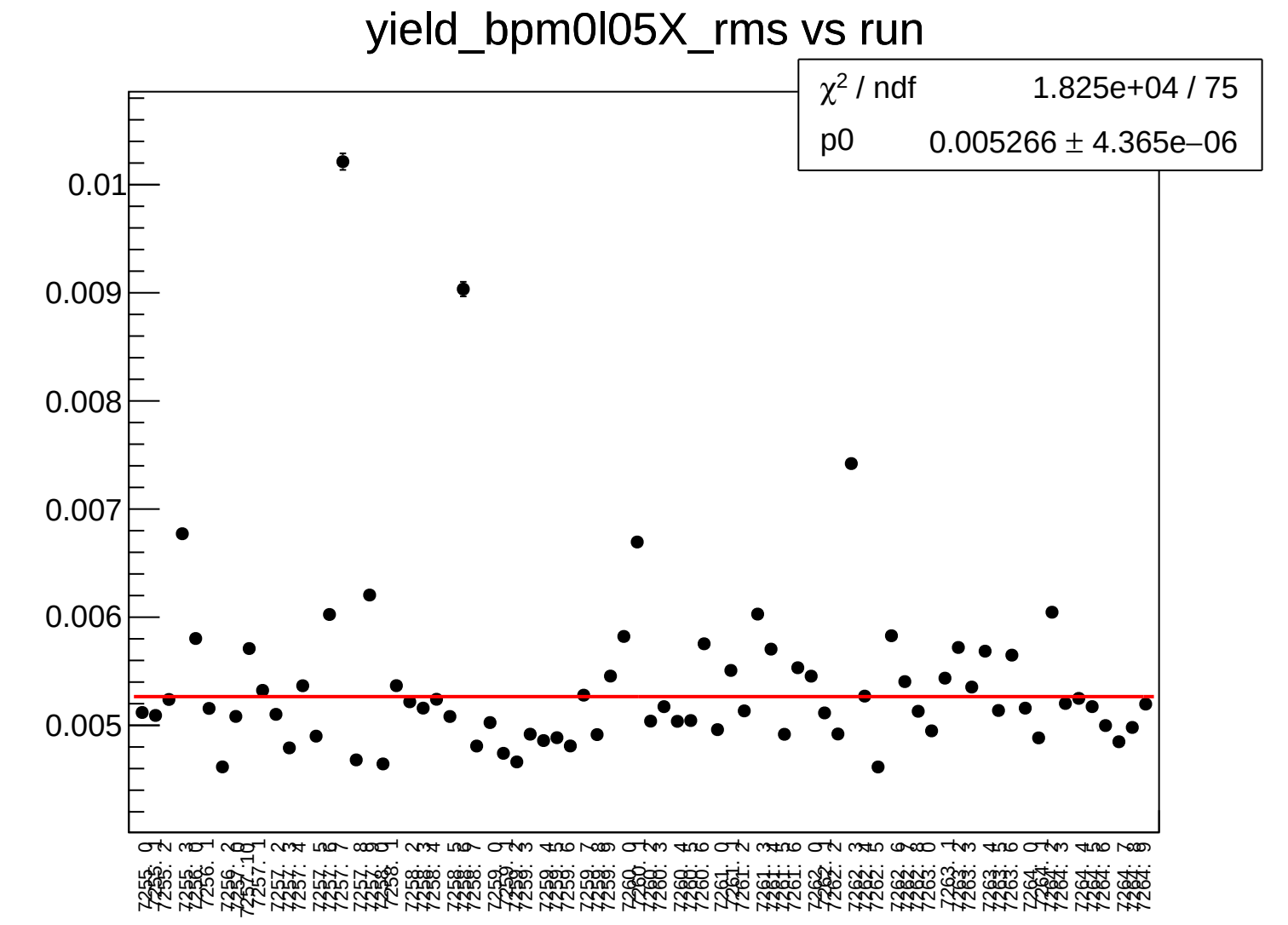

yield_bpm0l04Y_mean vs run
χ² / ndf 1.563e+06 / 75
p0 −0.3358 ± 6.163e−06
pull
Entries 76
Mean −1737
Std Dev 1761

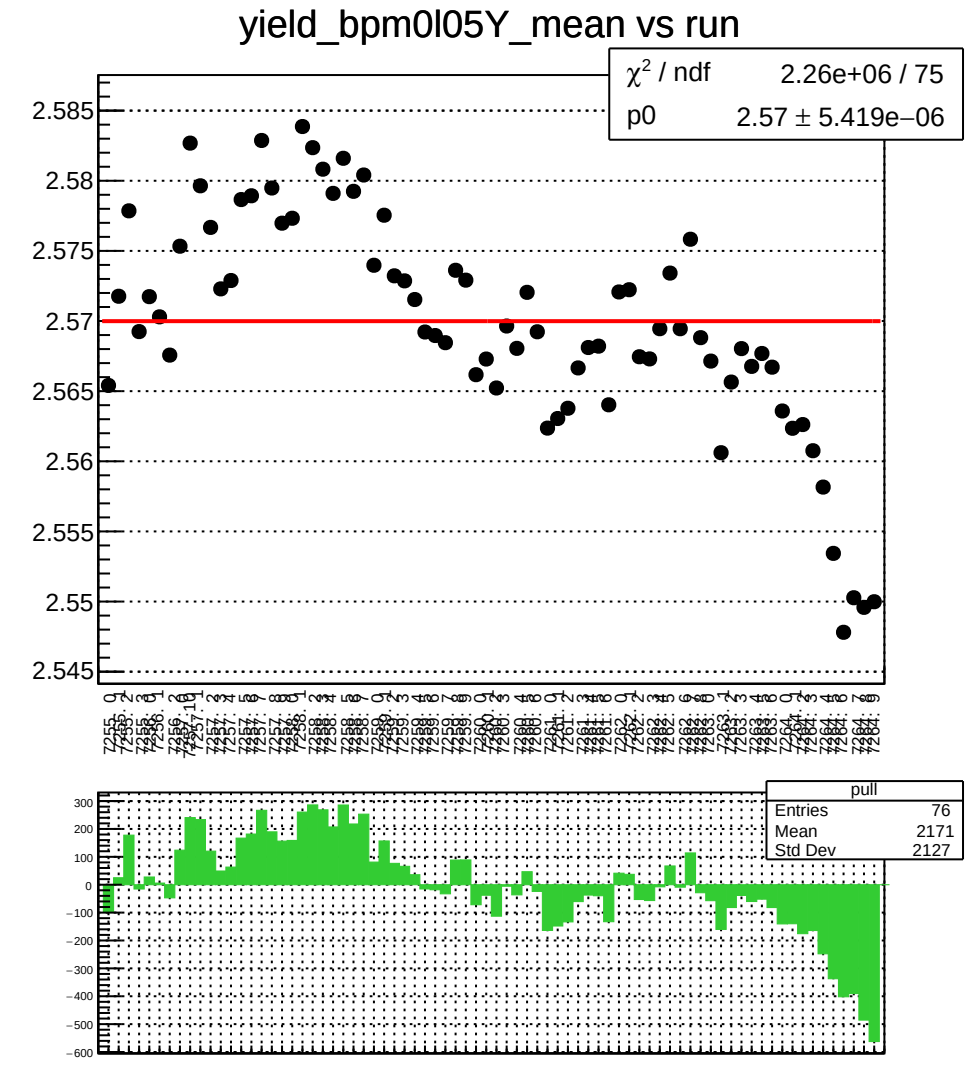

pull1D
Entries 76
Mean 0.4371
Std Dev 3.242

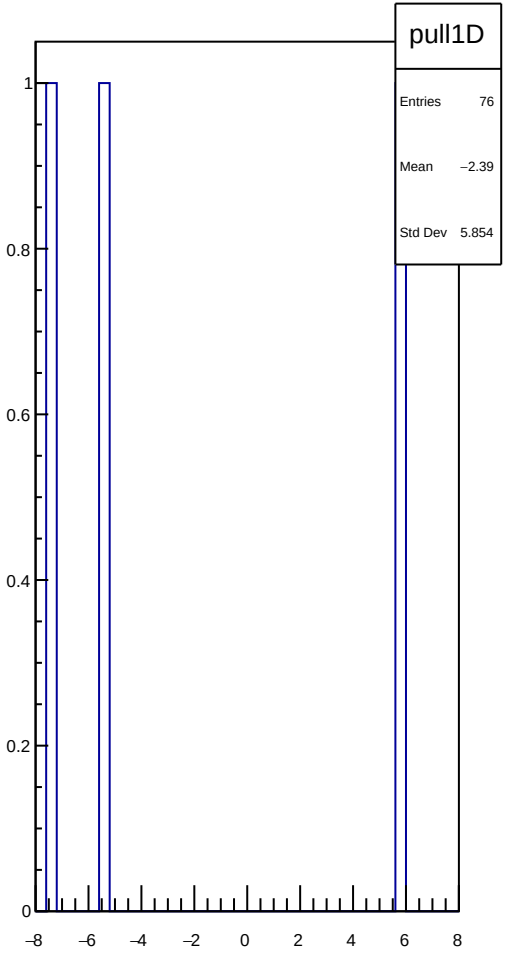

yield_bpm0l04Y_rms vs run
χ² / ndf 1.569e+04 / 75
p0 0.005262 ± 4.358e−06
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

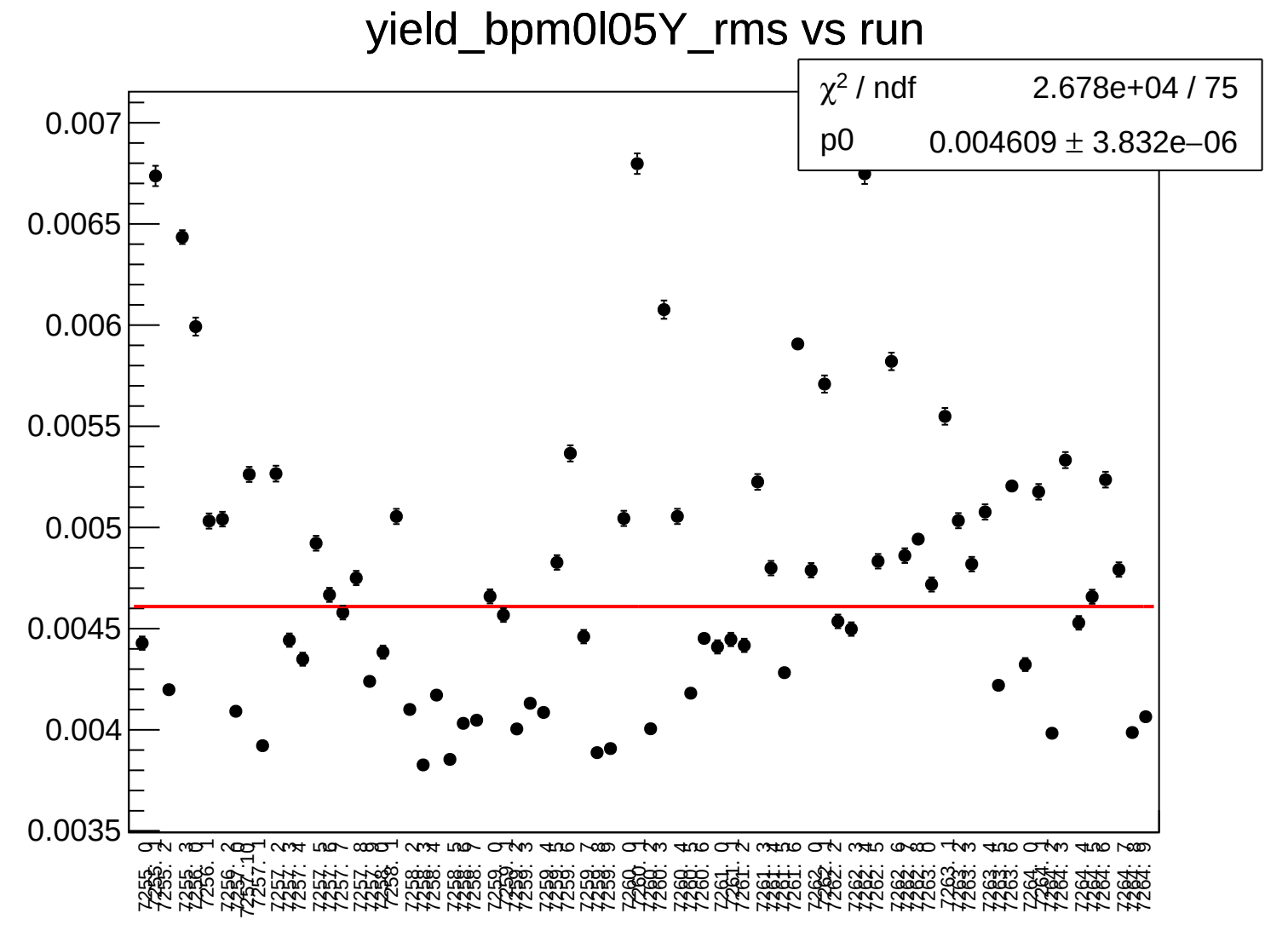

yield_bpm0l05X_mean vs run
χ² / ndf 4.137e+07 / 75
p0 0.1785 ± 6.173e−06
0.26
0.24
0.22
0.2
0.18
0.16
0.14
0.12
pull
Entries 76
Mean −1399
Std Dev 1433
1500
1000
500
0
−500
−1000

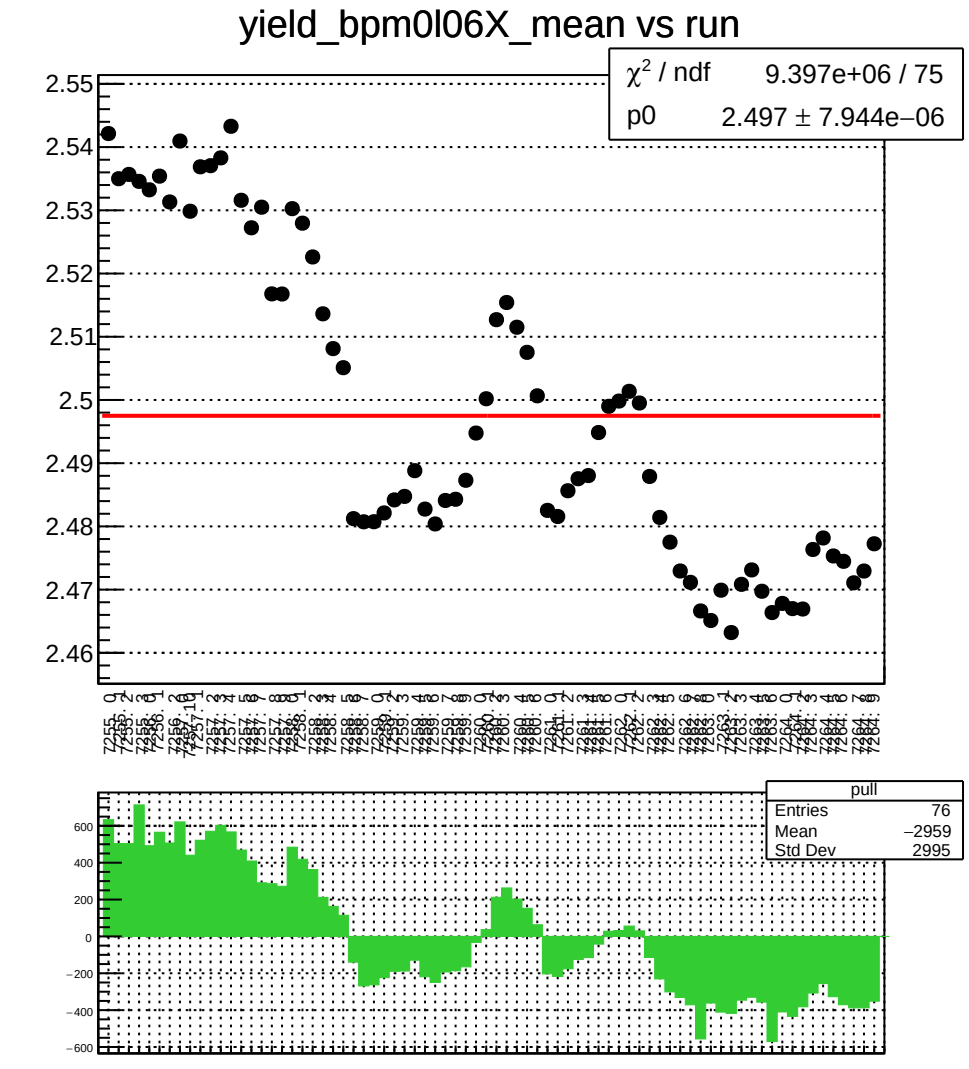

pull1D
Entries 76
Mean −7.739
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

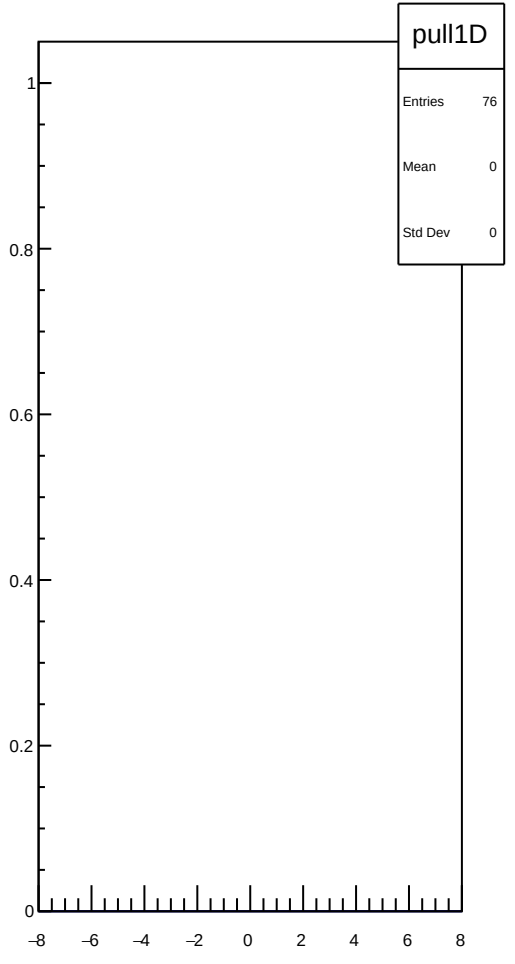

yield_bpm0l05X_rms vs run
χ^2 / ndf 1.825e+04 / 75
p0 0.005266 ± 4.365e−06
0.01
0.009
0.008
0.007
0.006
0.005

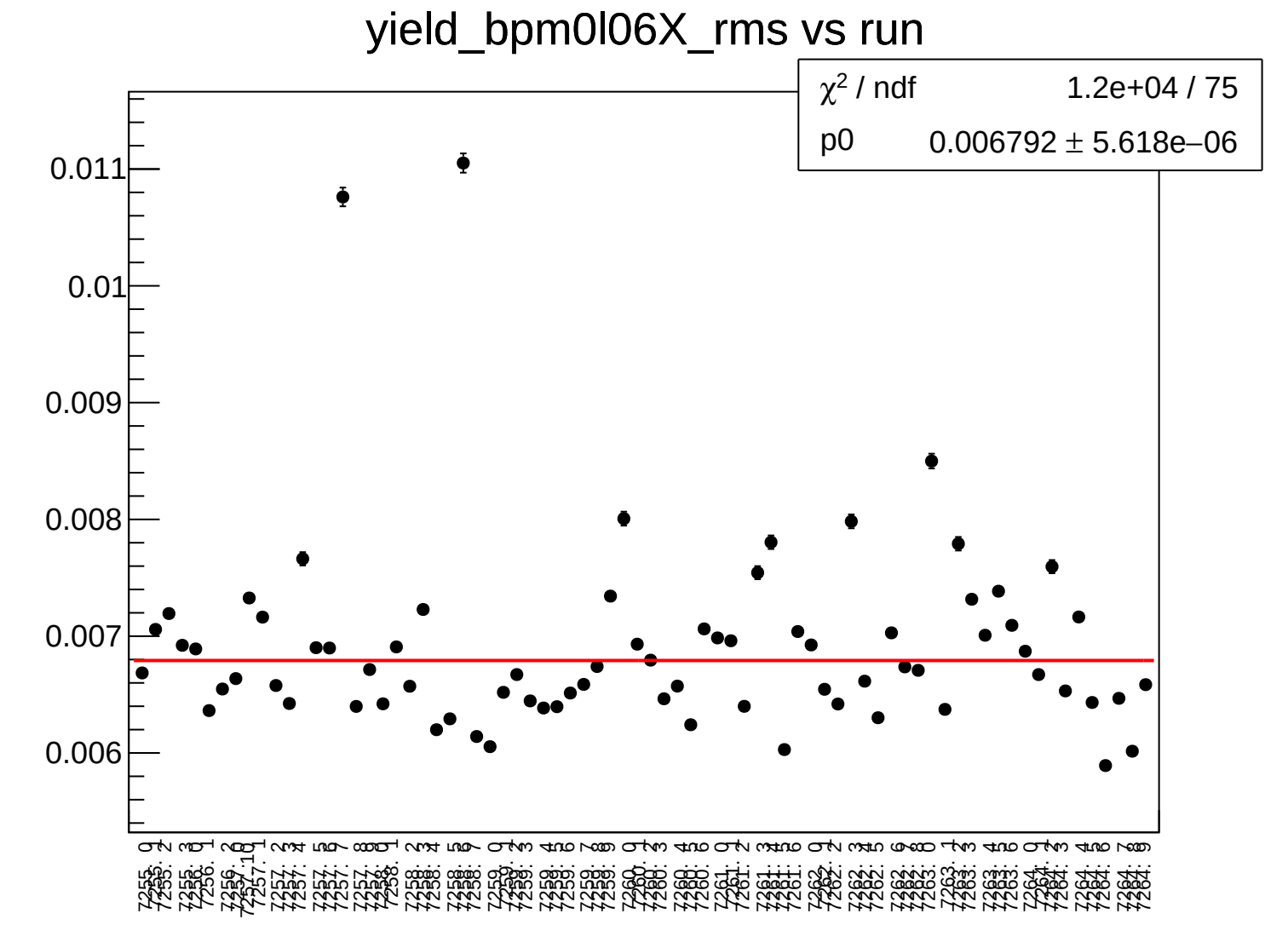

yield_bpm0l05Y_mean vs run
χ² / ndf 2.26e+06 / 75
p0 2.57 ± 5.419e−06
2.585
2.58
2.575
2.57
2.565
2.56
2.555
2.55
2.545
pull
Entries 76
Mean 2171
Std Dev 2127
300
200
100
0
−100
−200
−300
−400
−500
−600

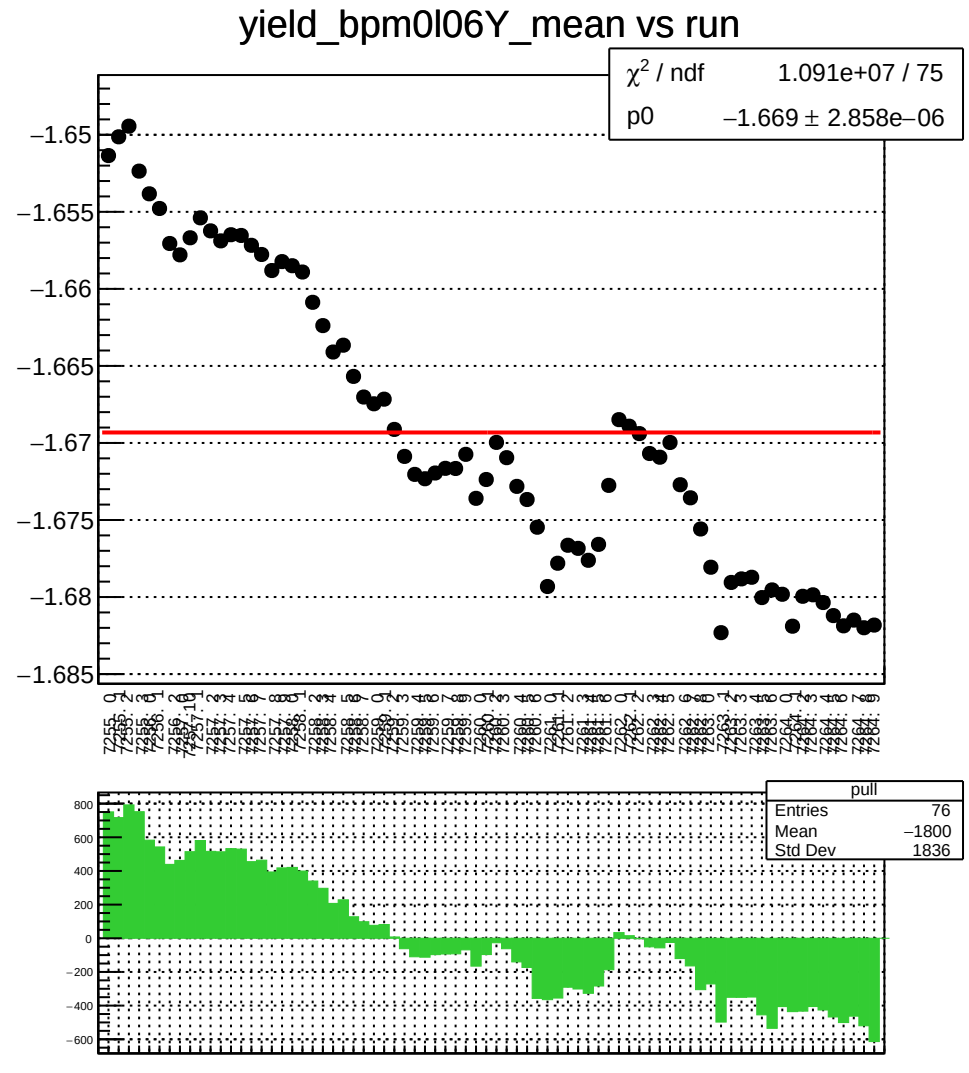

pull1D
Entries 76
Mean −2.39
Std Dev 5.854
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

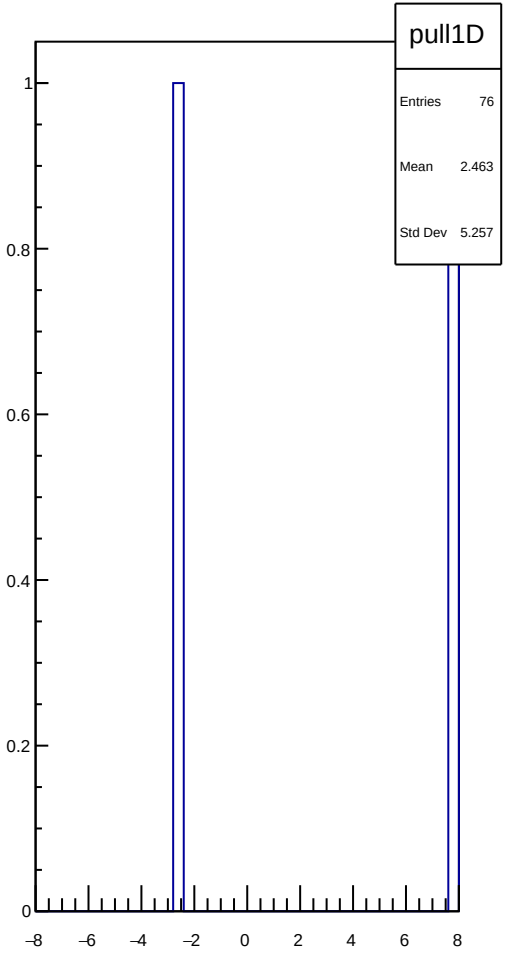

yield_bpm0l05Y_rms vs run
χ² / ndf 2.678e+04 / 75
p0 0.004609 ± 3.832e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

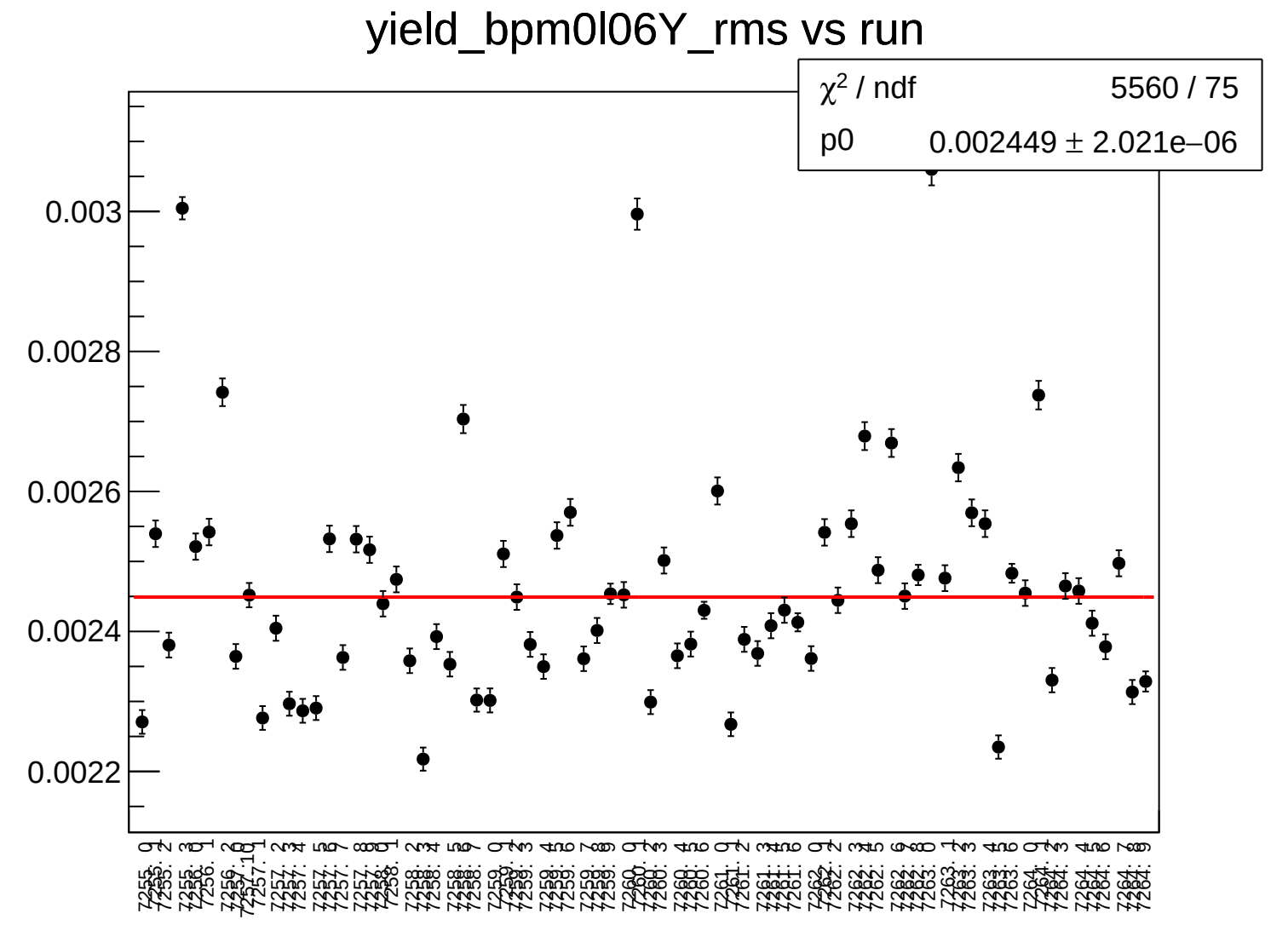

yield_bpm0l06X_mean vs run
χ² / ndf 9.397e+06 / 75
p0 2.497 ± 7.944e−06
pull
Entries 76
Mean −2959
Std Dev 2995

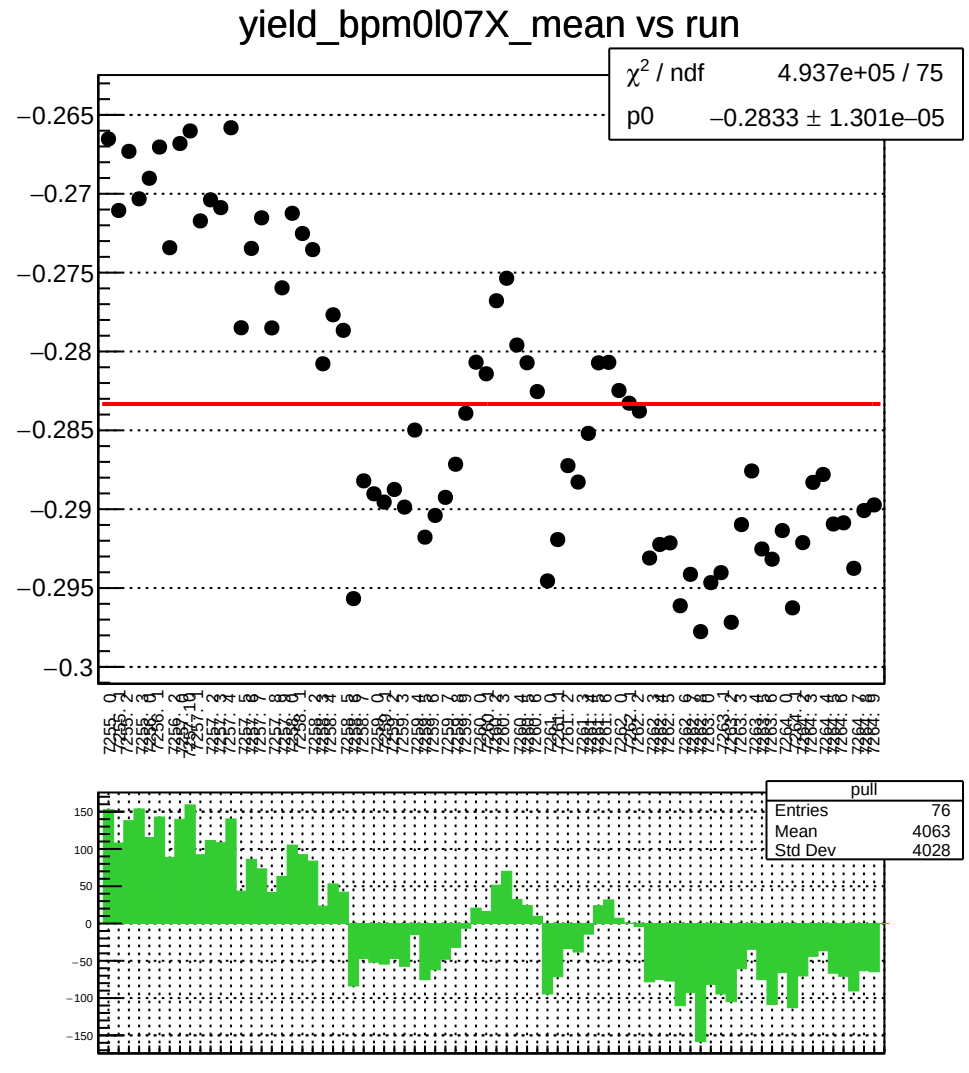

pull1D
Entries 76
Mean 0
Std Dev 0

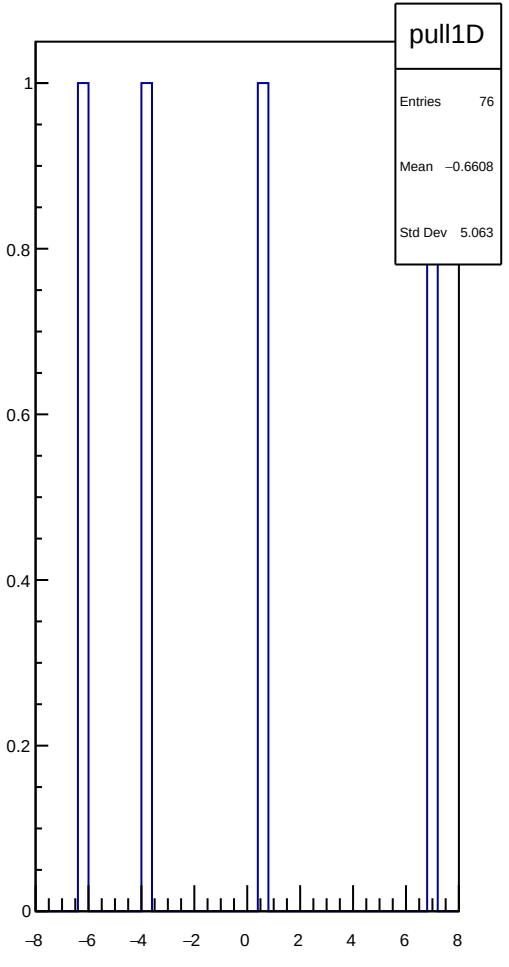

yield_bpm0l06X_rms vs run
χ² / ndf 1.2e+04 / 75
p0 0.006792 ± 5.618e−06
0.011
0.01
0.009
0.008
0.007
0.006

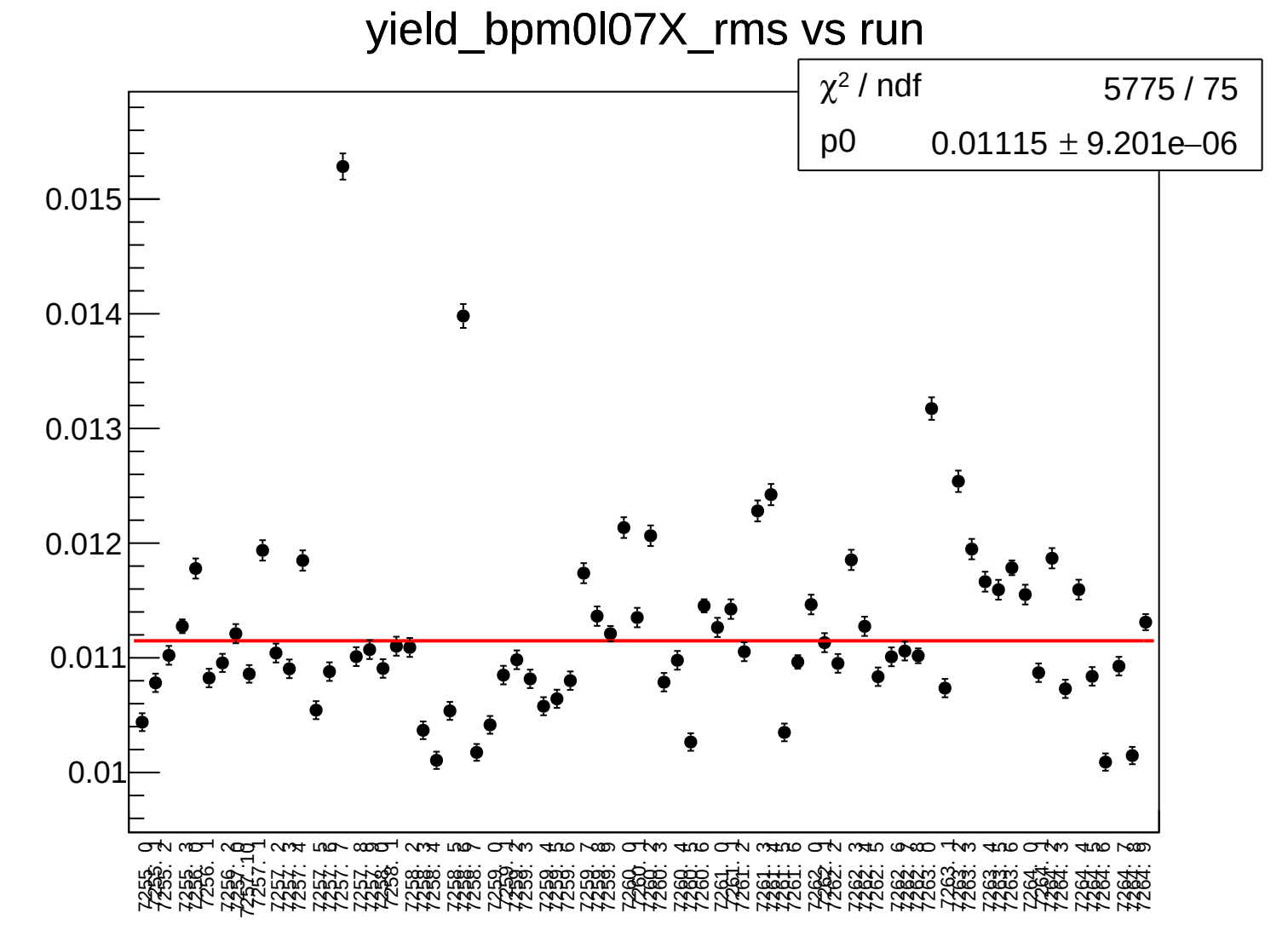

yield_bpm0l06Y_mean vs run
χ² / ndf 1.091e+07 / 75
p0 −1.669 ± 2.858e−06
−1.65
−1.655
−1.66
−1.665
−1.67
−1.675
−1.68
−1.685
pull
Entries 76
Mean −1800
Std Dev 1836
800
600
400
200
0
−200
−400
−600

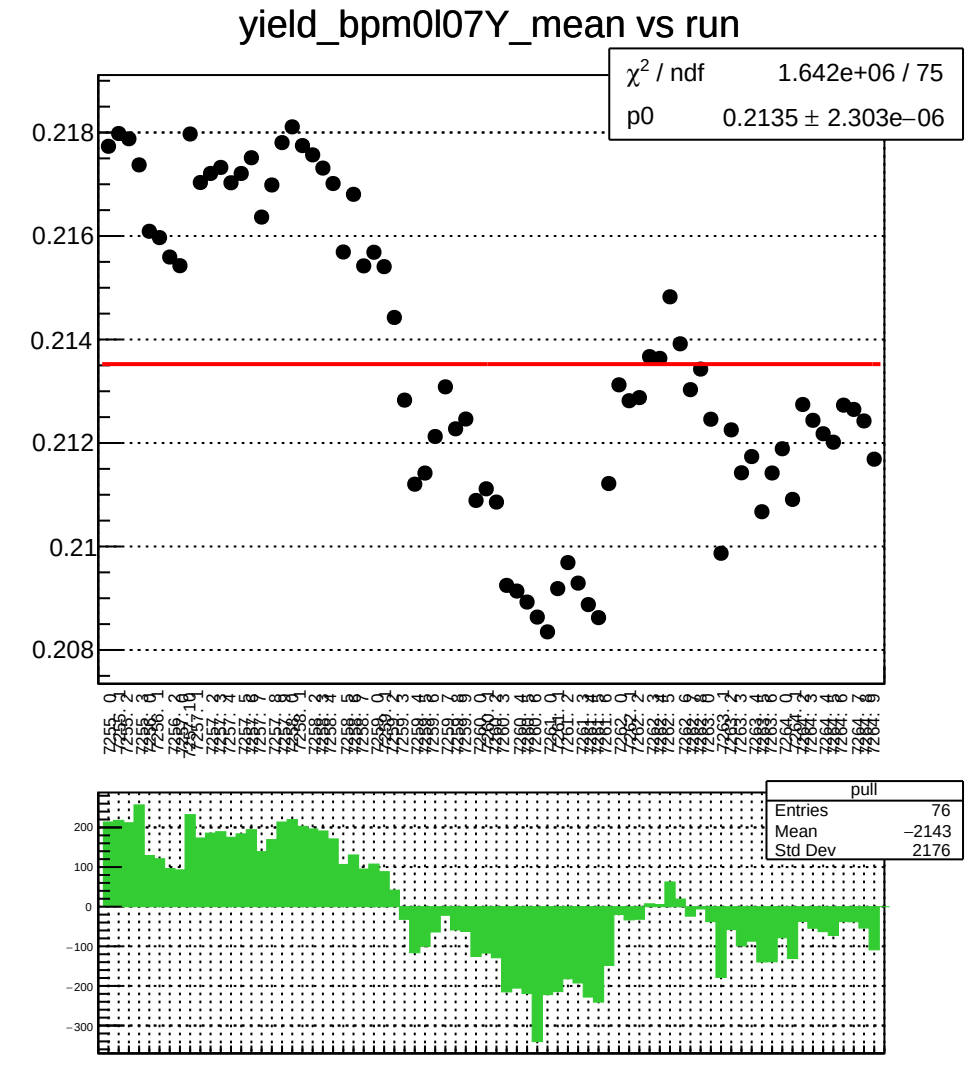

pull1D
Entries 76
Mean 2.463
Std Dev 5.257
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

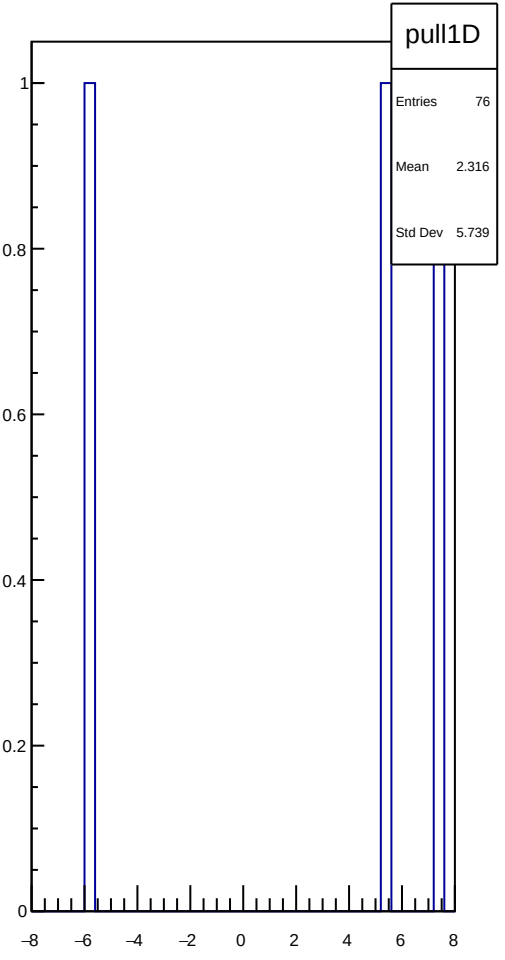

yield_bpm0l06Y_rms vs run
χ² / ndf 5560 / 75
p0 0.002449 ± 2.021e−06
0.003
0.0028
0.0026
0.0024
0.0022

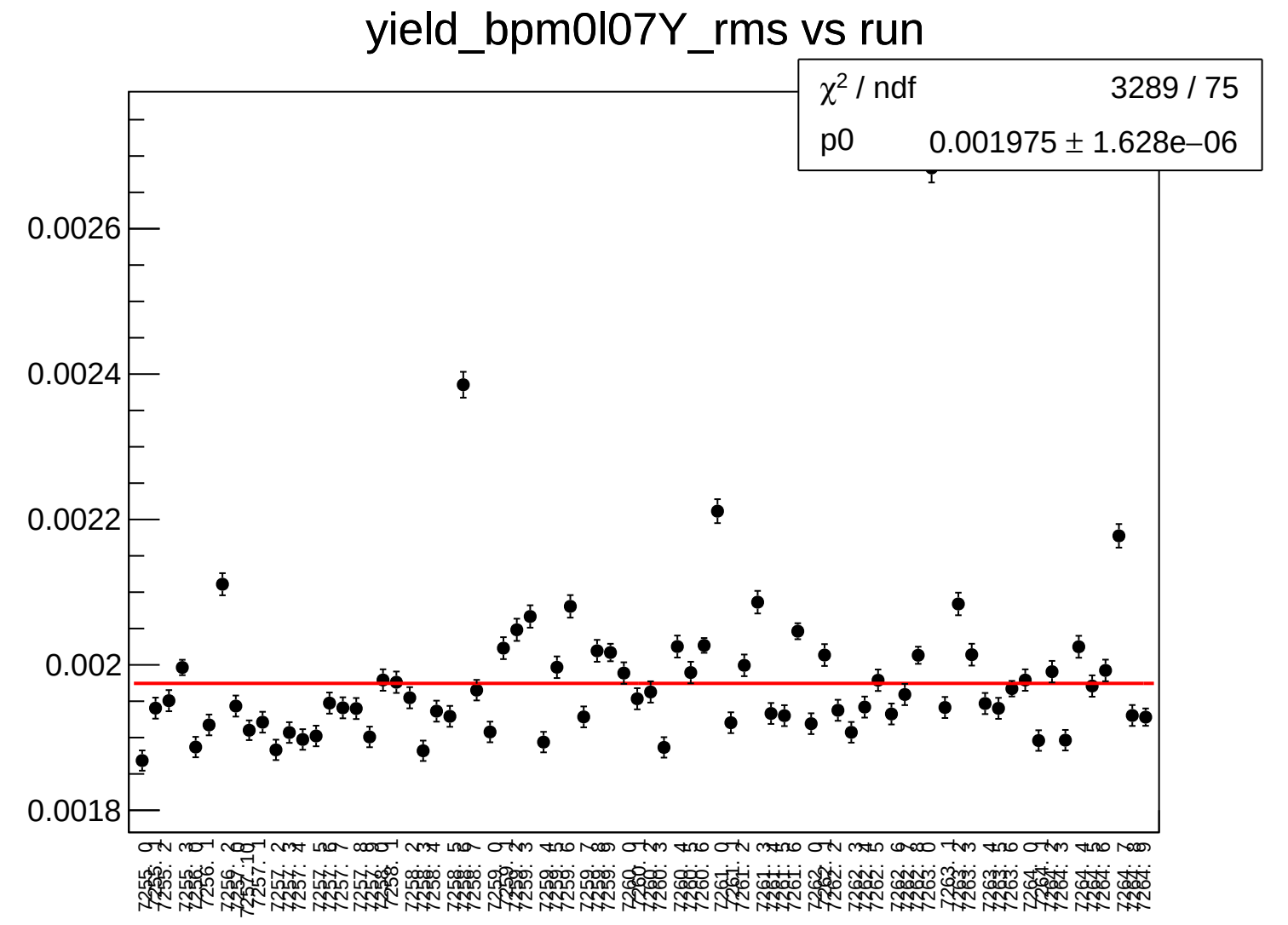

yield_bpm0l07X_mean vs run
χ² / ndf 4.937e+05 / 75
p0 −0.2833 ± 1.301e−05
−0.265
−0.27
−0.275
−0.28
−0.285
−0.29
−0.295
−0.3
pull
Entries 76
Mean 4063
Std Dev 4028
150
100
50
0
−50
−100
−150

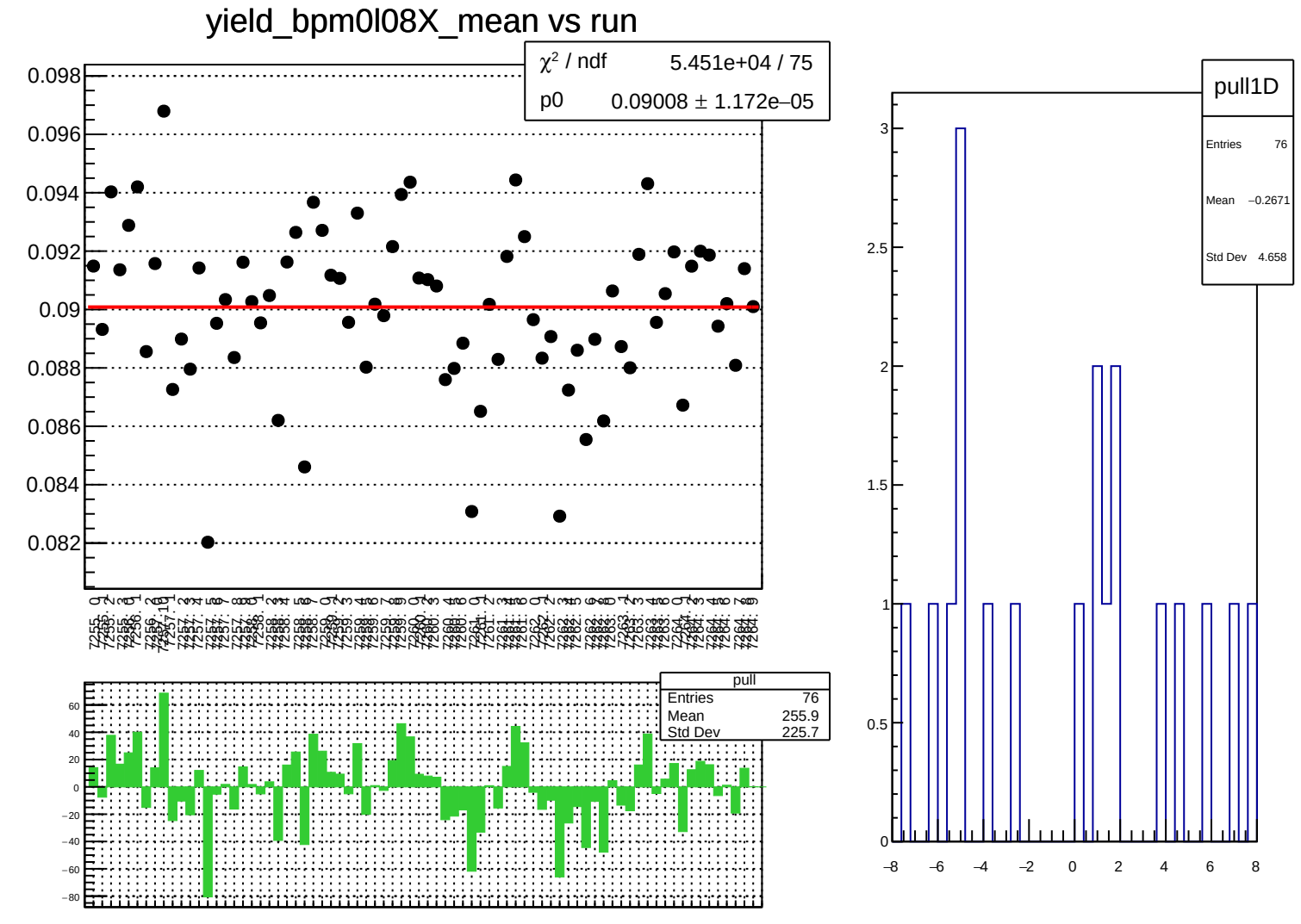

pull1D
Entries 76
Mean −0.6608
Std Dev 5.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

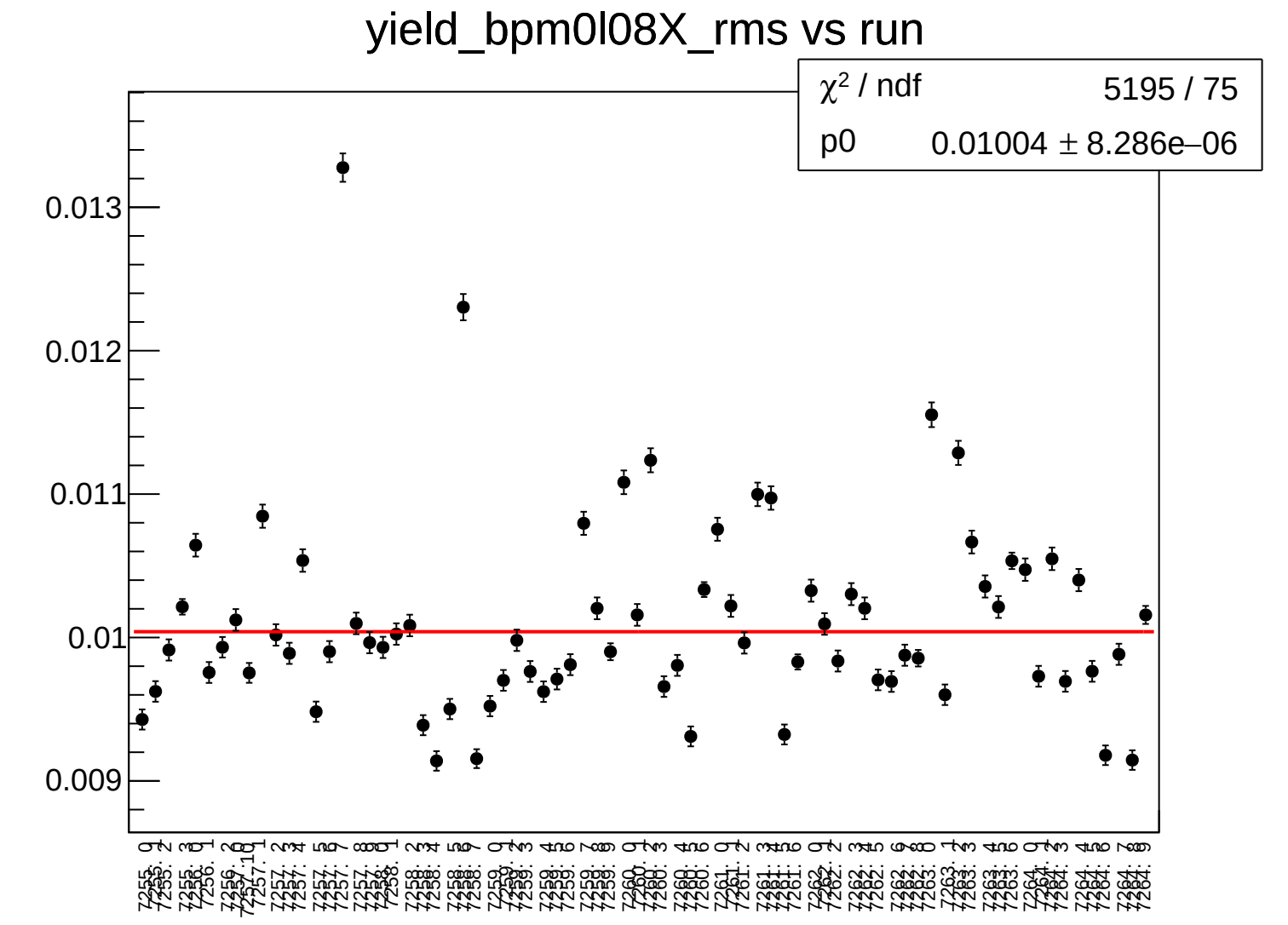

yield_bpm0l07X_rms vs run
χ² / ndf 5775 / 75
p0 0.01115 ± 9.201e–06
0.015
0.014
0.013
0.012
0.011
0.01

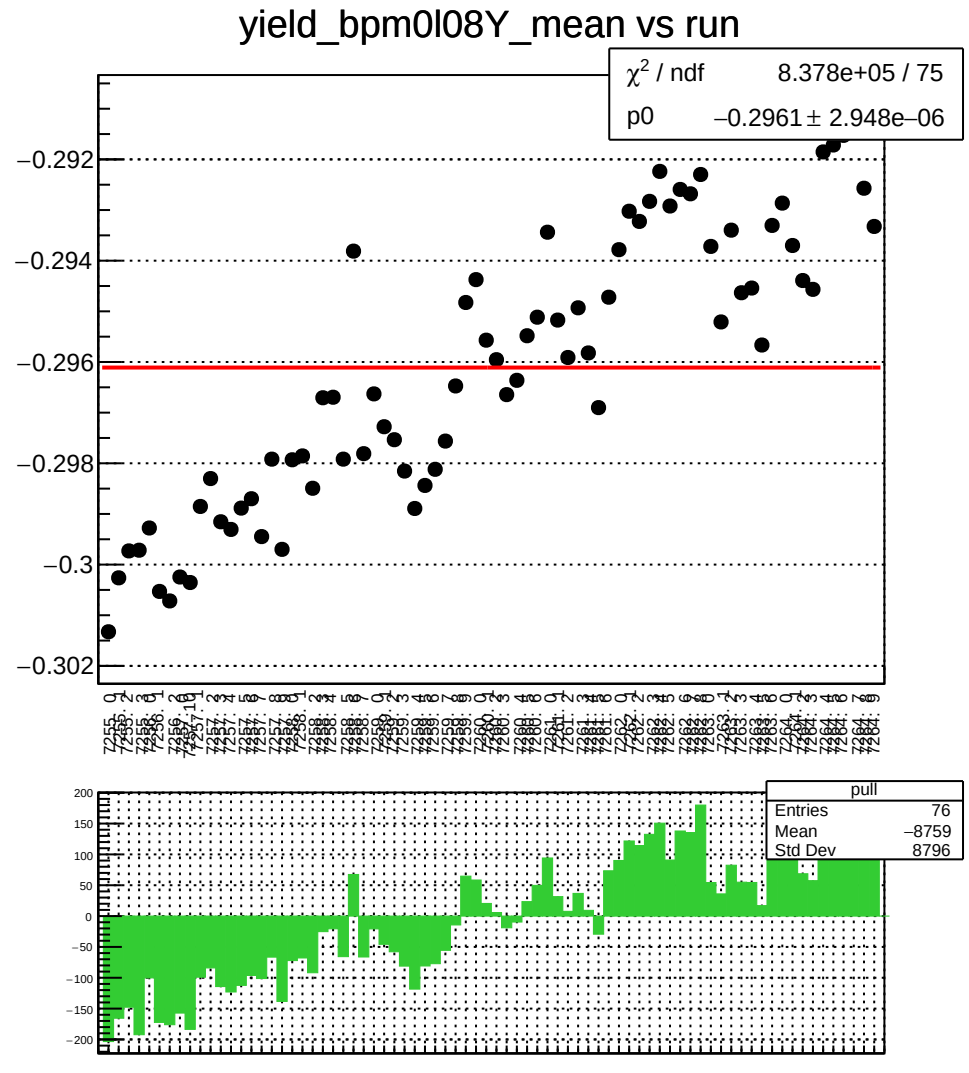

yield_bpm0l07Y_mean vs run
χ² / ndf 1.642e+06 / 75
p0 0.2135 ± 2.303e−06
0.218
0.216
0.214
0.212
0.21
0.208
pull
Entries 76
Mean −2143
Std Dev 2176
200
100
0
−100
−200
−300

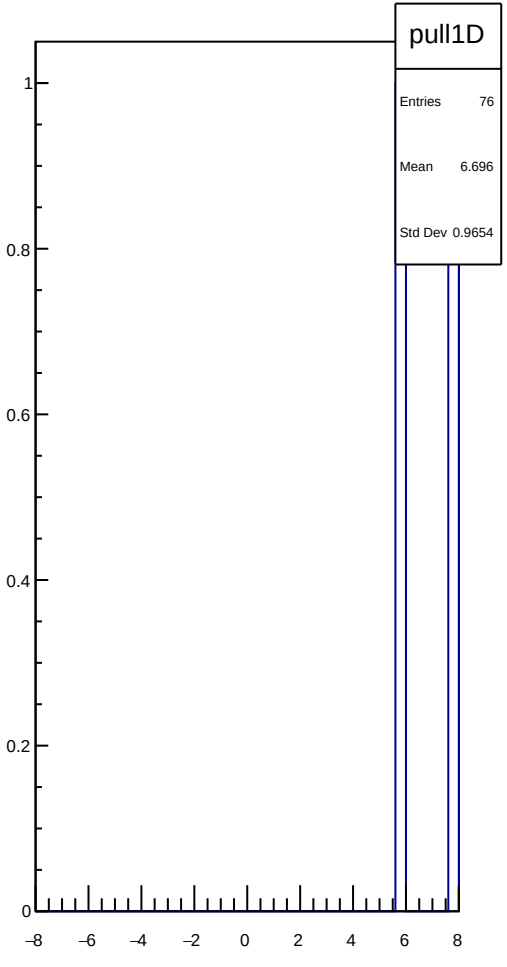

pull1D
Entries 76
Mean 2.316
Std Dev 5.739
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

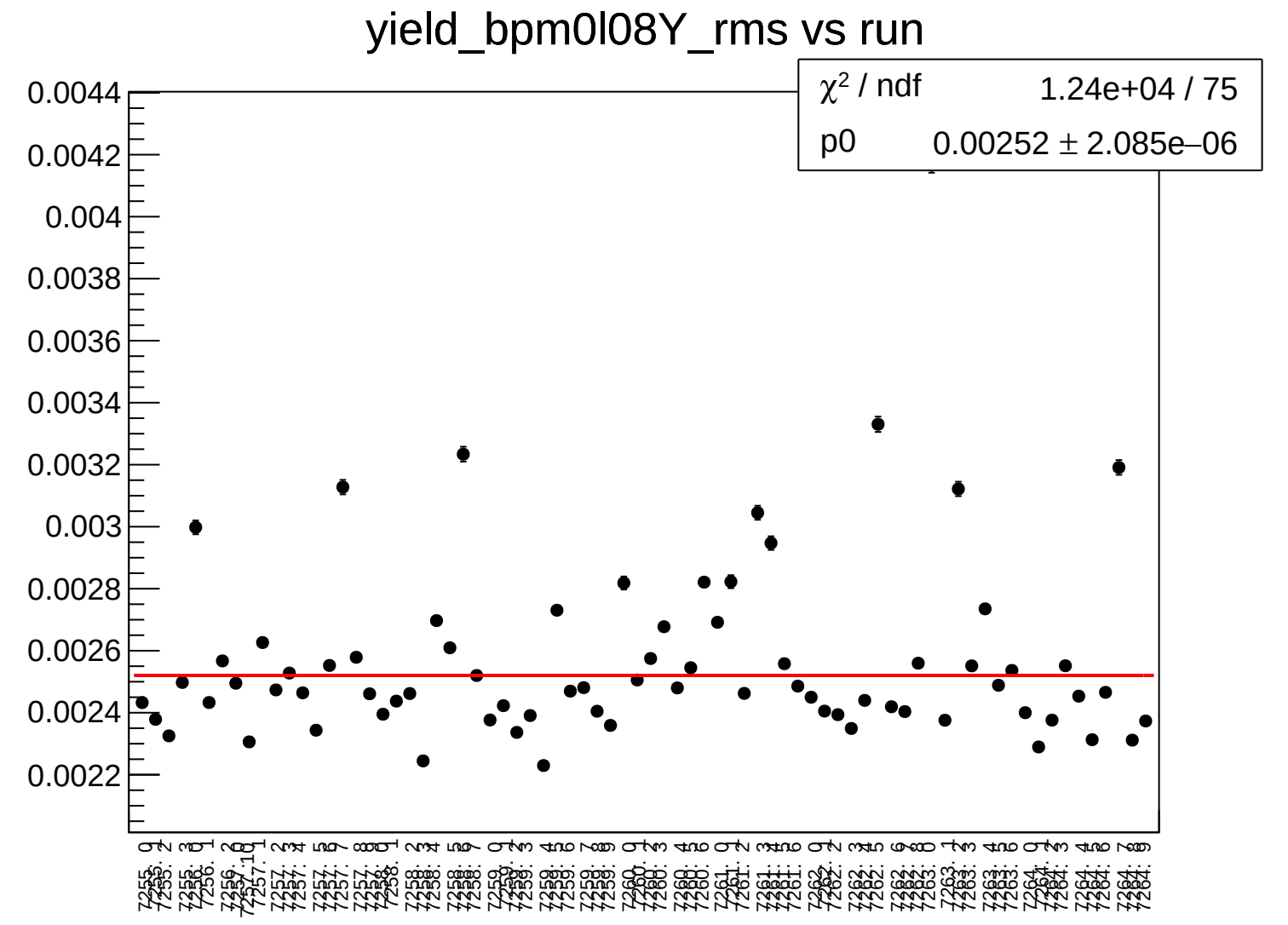

yield_bpm0l07Y_rms vs run
χ² / ndf 3289 / 75
p0 0.001975 ± 1.628e−06
0.0026
0.0024
0.0022
0.002
0.0018

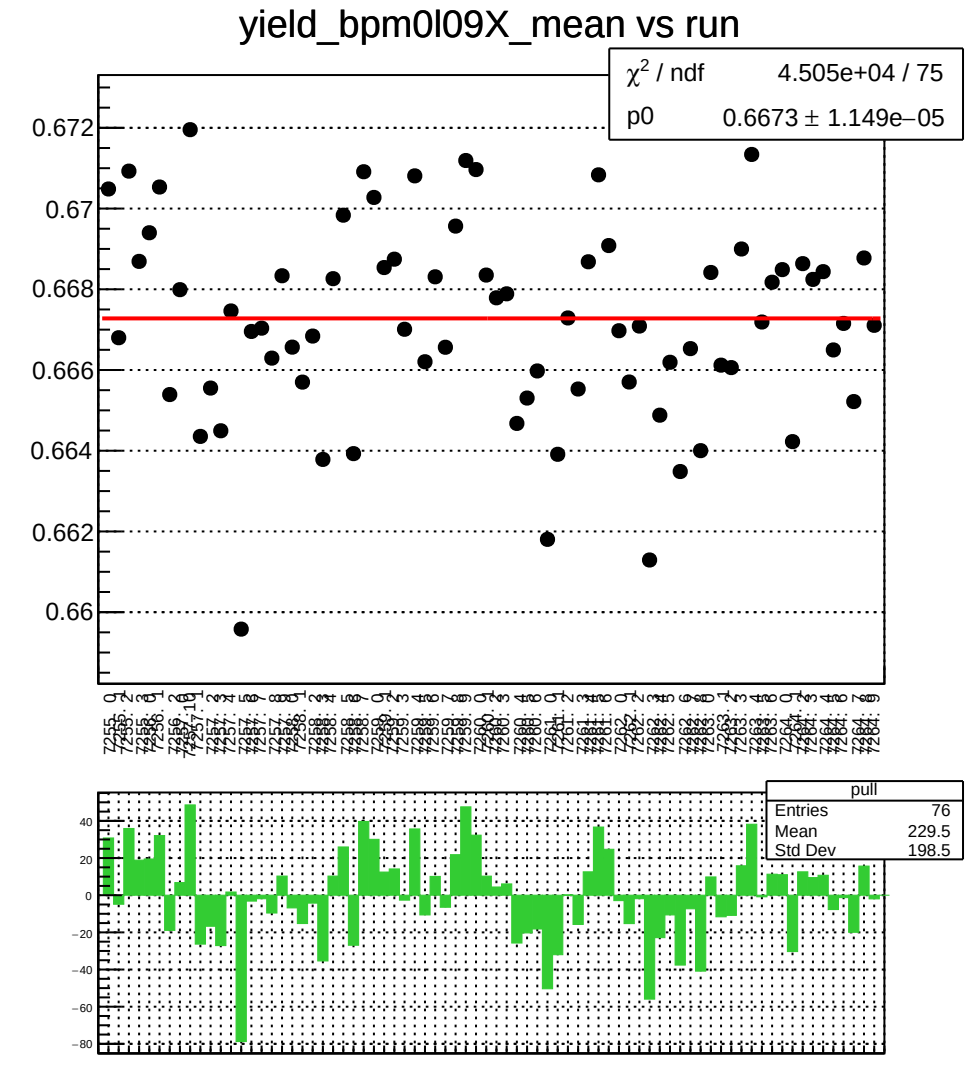

yield_bpm0l08X_mean vs run
χ² / ndf 5.451e+04 / 75
p0 0.09008 ± 1.172e−05
0.098
0.096
0.094
0.092
0.09
0.088
0.086
0.084
0.082
pull
Entries 76
Mean 255.9
Std Dev 225.7
60
40
20
0
−20
−40
−60
−80
pull1D
Entries 76
Mean −0.2671
Std Dev 4.658
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

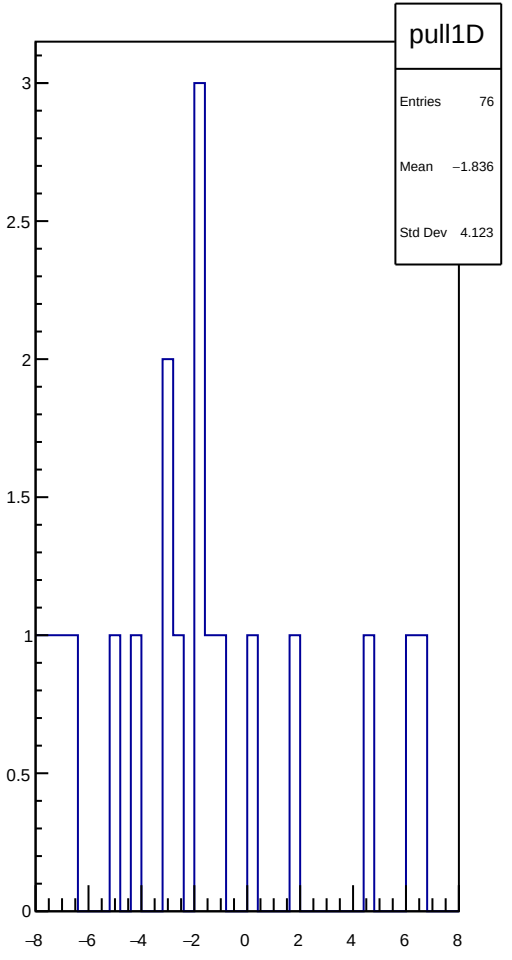

yield_bpm0l08X_rms vs run
χ² / ndf 5195 / 75
p0 0.01004 ± 8.286e–06
0.013
0.012
0.011
0.01
0.009

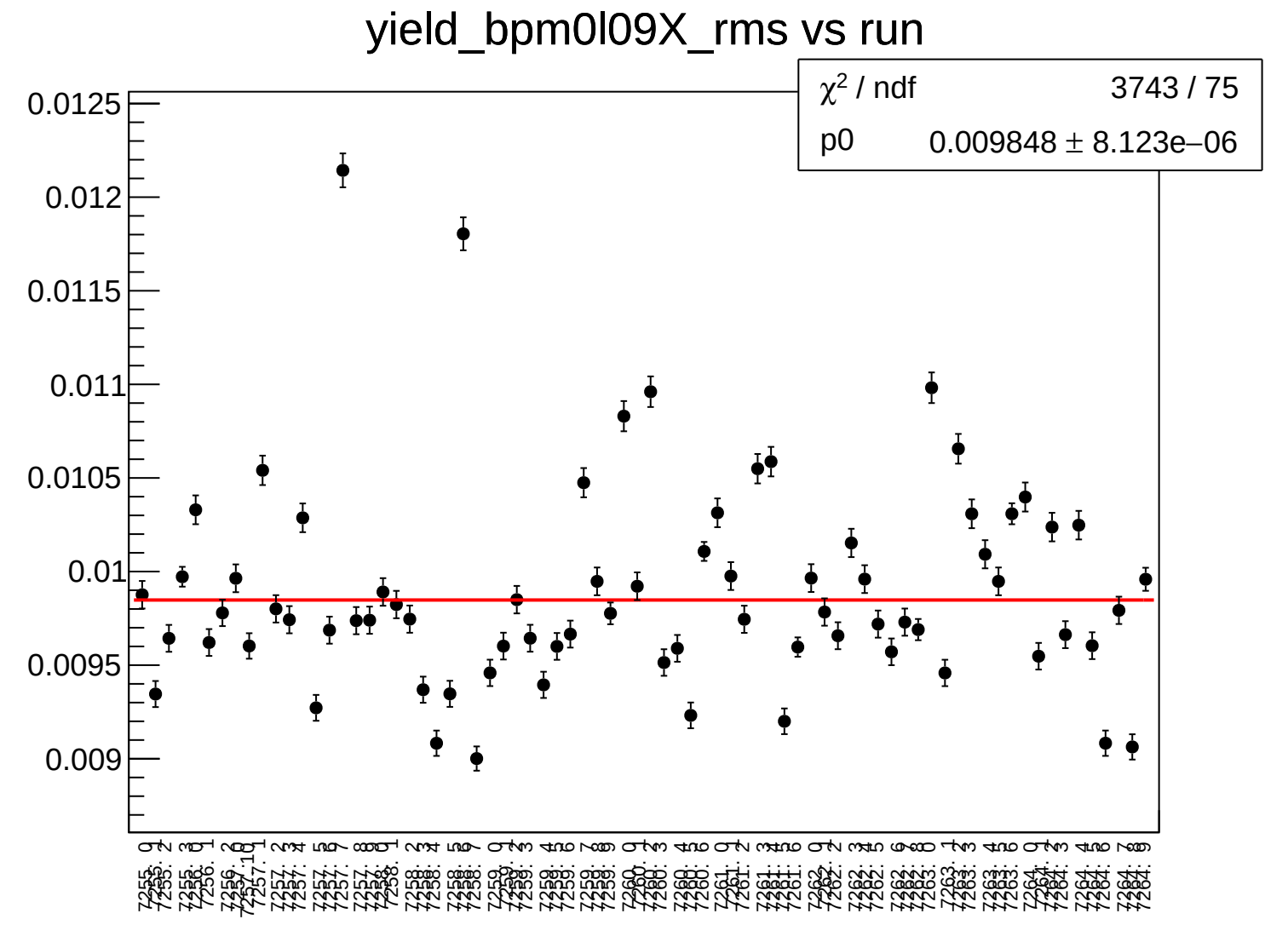

yield_bpm0l08Y_mean vs run
χ² / ndf 8.378e+05 / 75
p0 −0.2961 ± 2.948e−06
−0.292
−0.294
−0.296
−0.298
−0.3
−0.302
pull
Entries 76
Mean −8759
Std Dev 8796
200
150
100
50
0
−50
−100
−150
−200

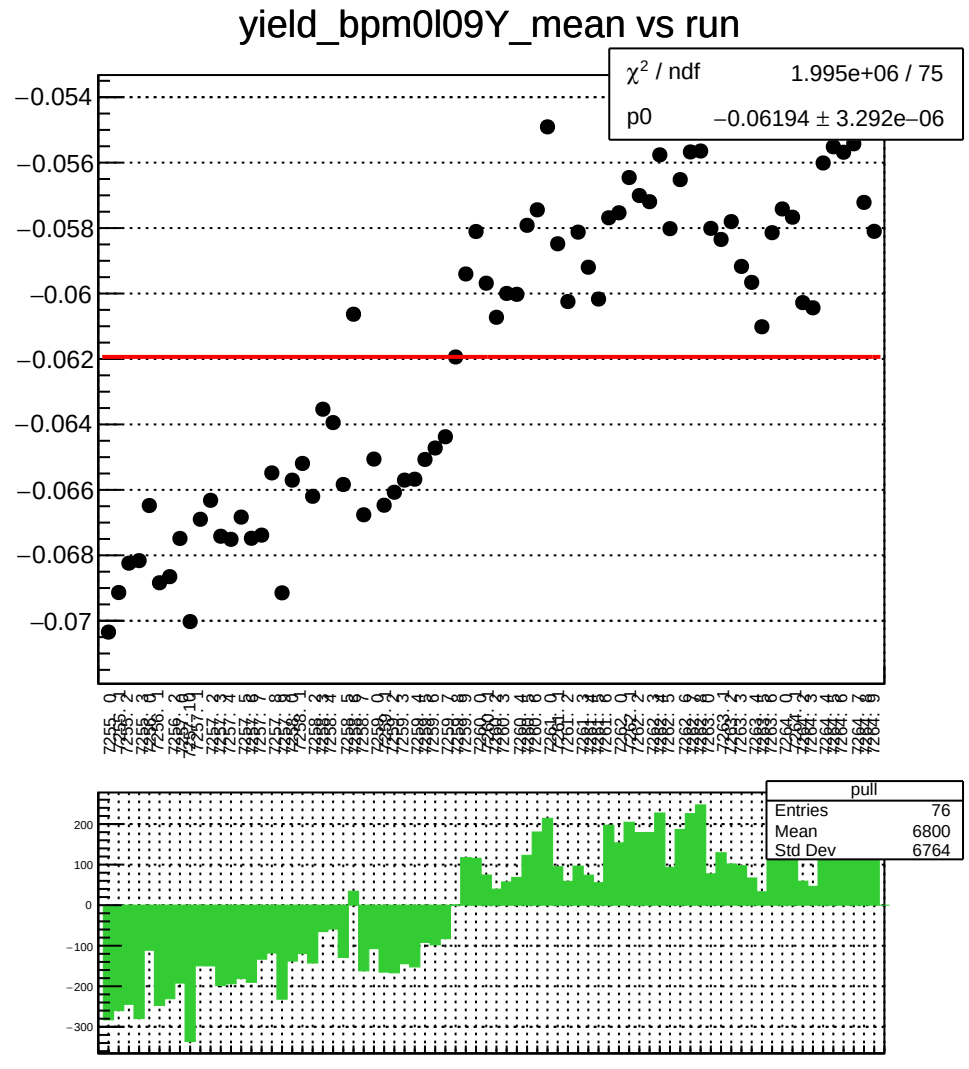

pull1D
Entries 76
Mean 6.696
Std Dev 0.9654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

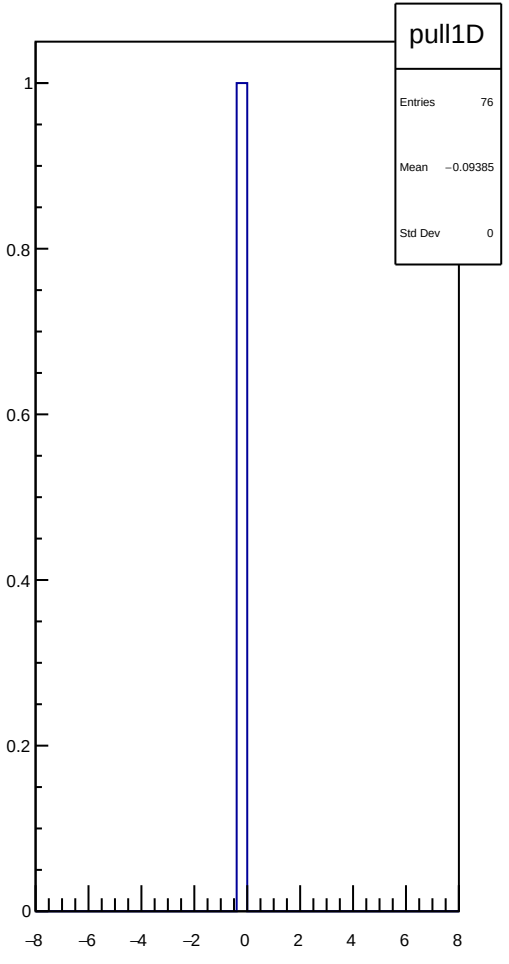

yield_bpm0l08Y_rms vs run
χ² / ndf 1.24e+04 / 75
p0 0.00252 ± 2.085e–06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

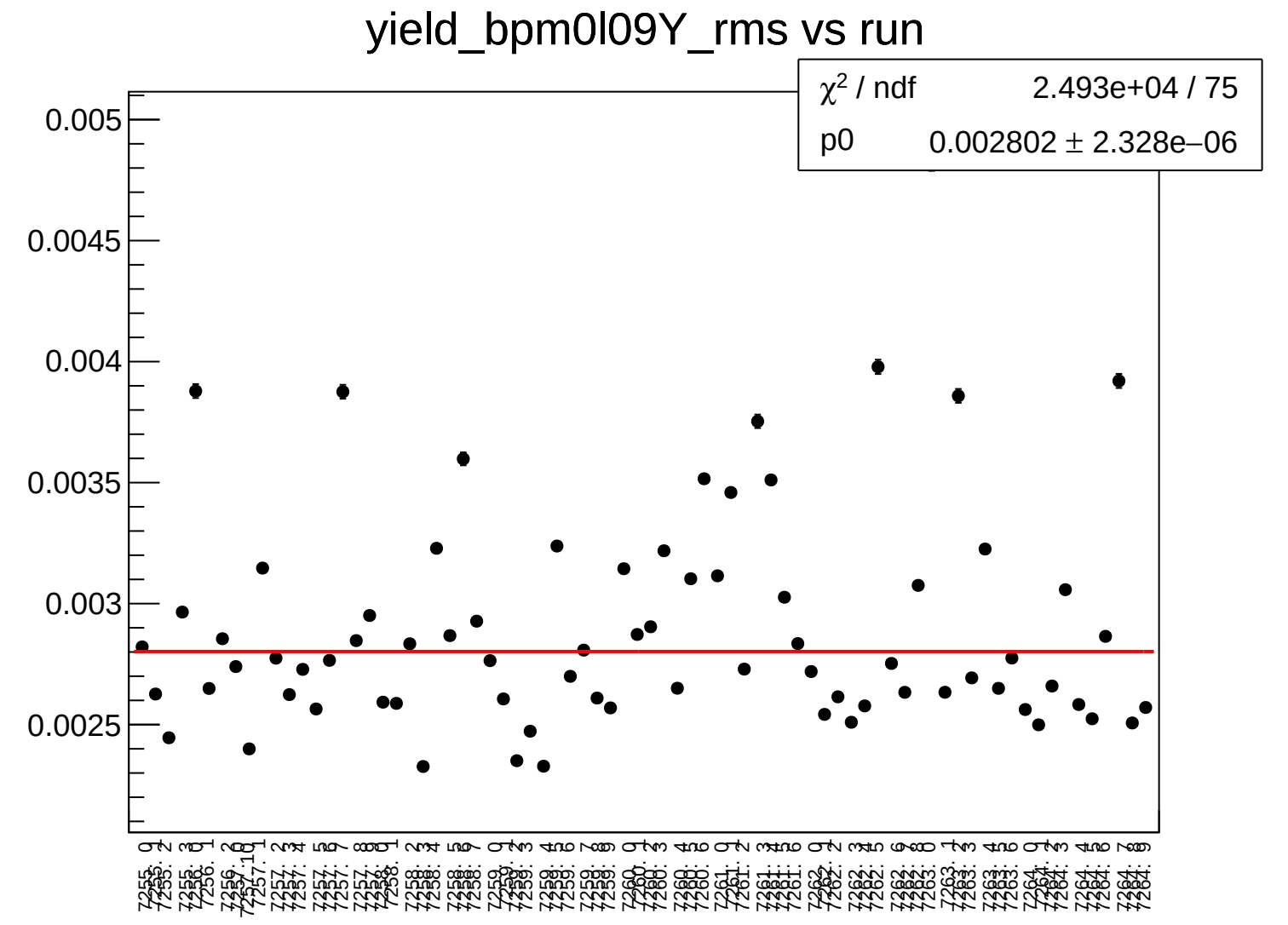

yield_bpm0l09X_mean vs run
χ² / ndf 4.505e+04 / 75
p0 0.6673 ± 1.149e−05
0.672
0.67
0.668
0.666
0.664
0.662
0.66
pull
Entries 76
Mean 229.5
Std Dev 198.5
40
20
0
−20
−40
−60
−80

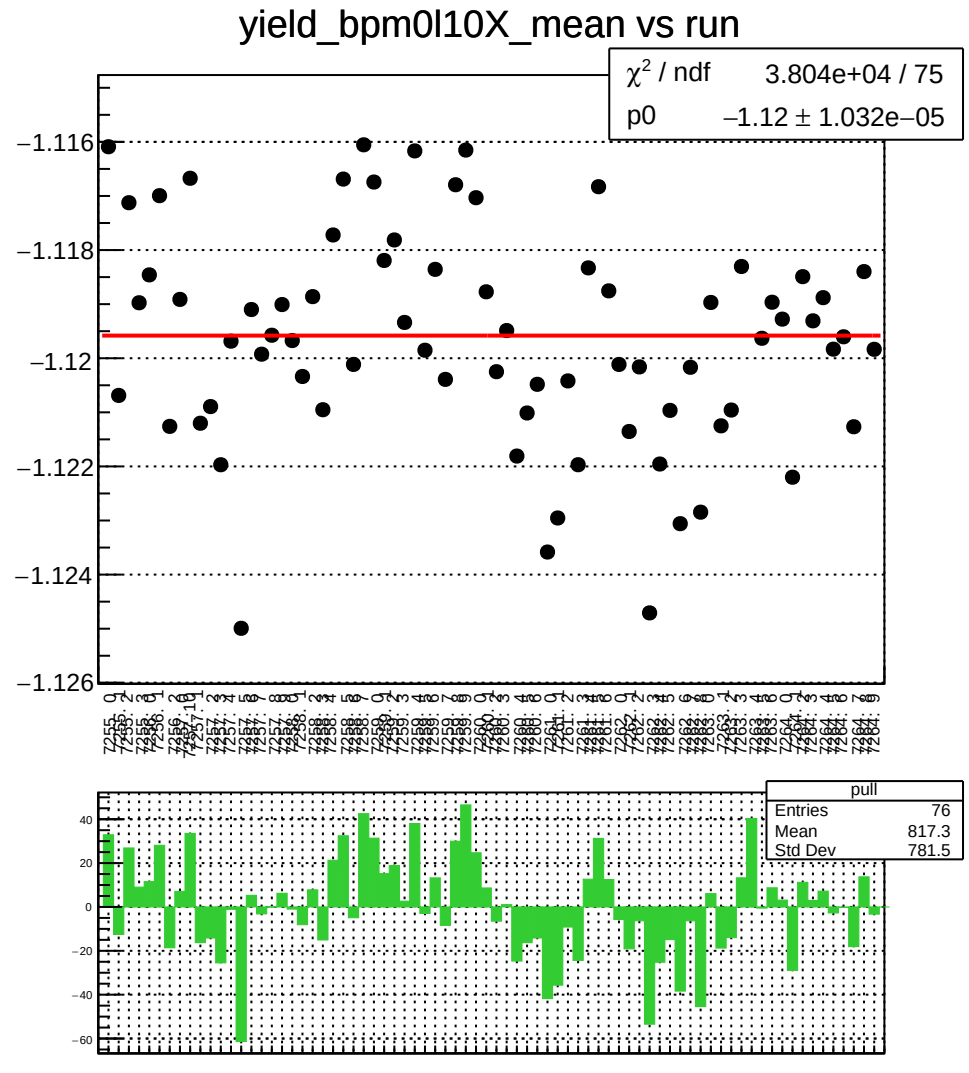

pull1D
Entries 76
Mean −1.836
Std Dev 4.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

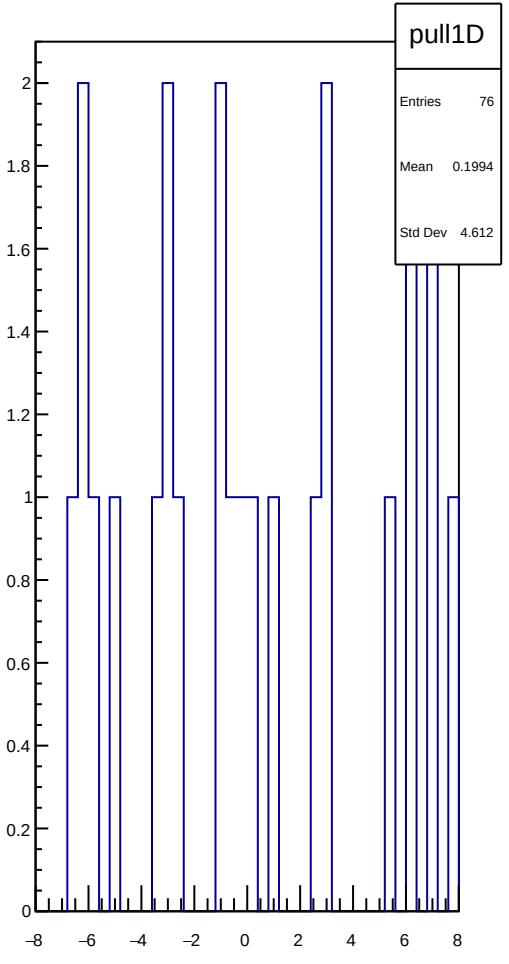

yield_bpm0l09X_rms vs run
χ² / ndf 3743 / 75
p0 0.009848 ± 8.123e−06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

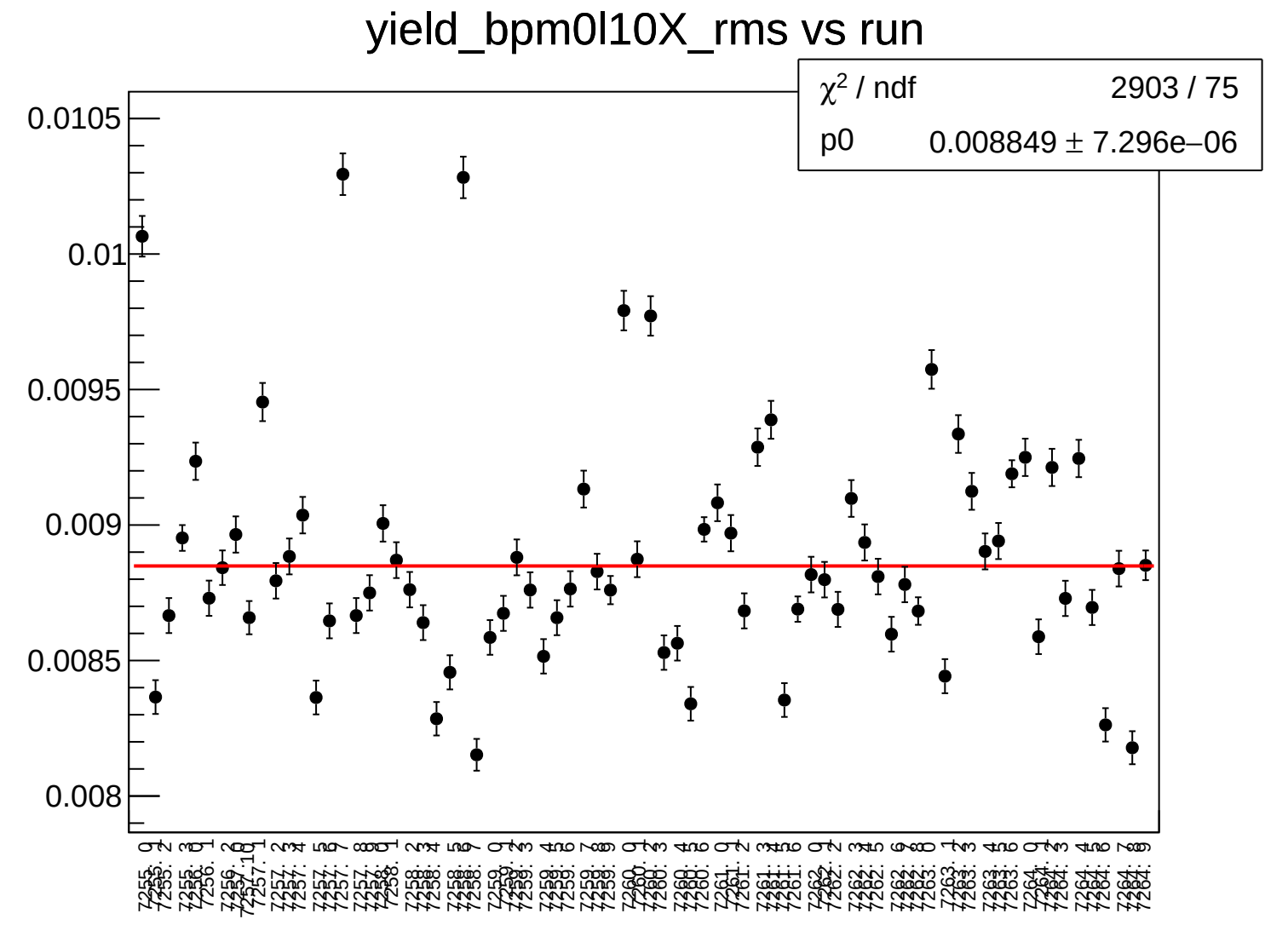

yield_bpm0l09Y_mean vs run
χ² / ndf 1.995e+06 / 75
p0 −0.06194 ± 3.292e−06
−0.054
−0.056
−0.058
−0.06
−0.062
−0.064
−0.066
−0.068
−0.07
pull
Entries 76
Mean 6800
Std Dev 6764
200
100
0
−100
−200
−300

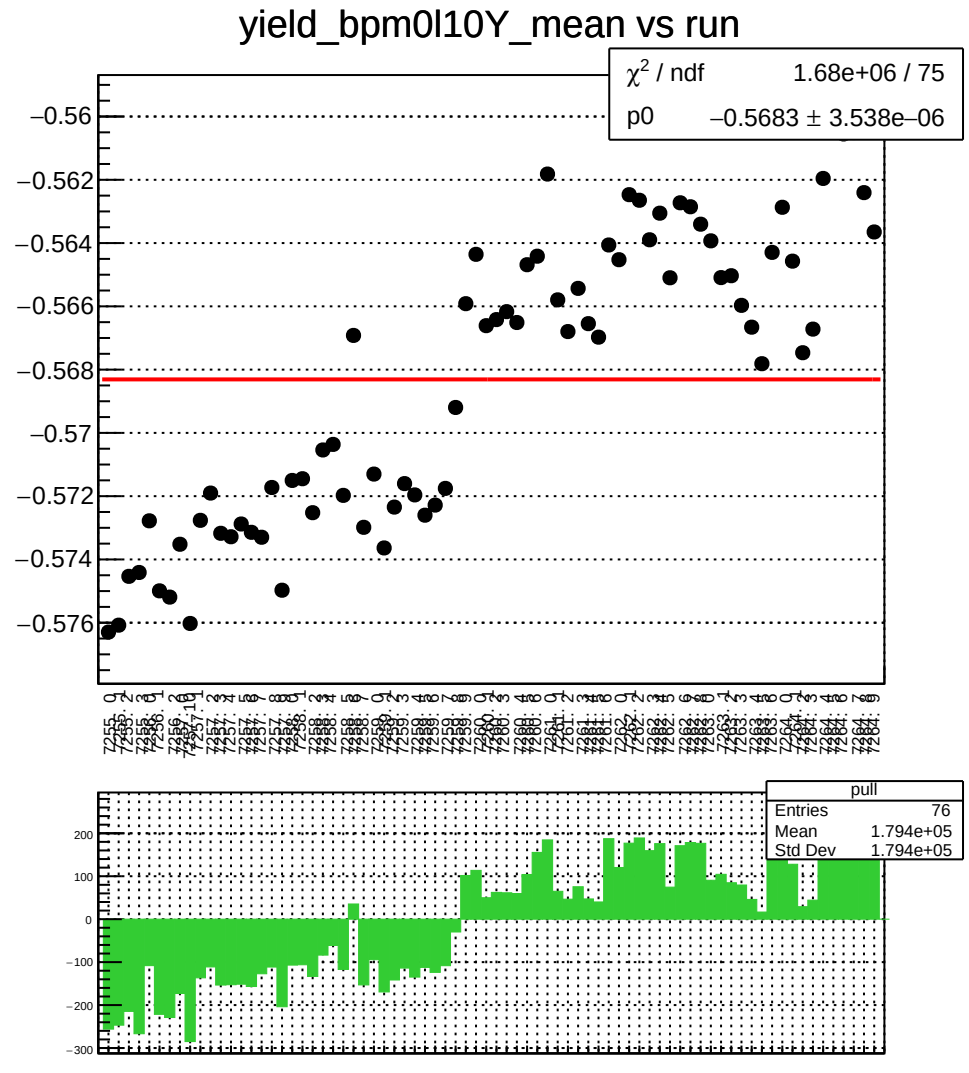

pull1D
Entries 76
Mean −0.09385
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

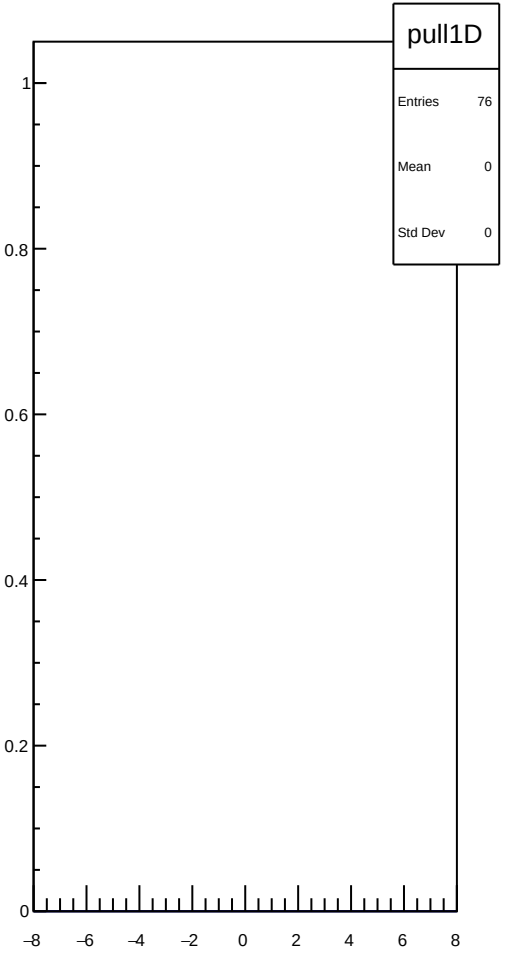

yield_bpm0l09Y_rms vs run
χ^2 / ndf 2.493e+04 / 75
p0 0.002802 ± 2.328e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025

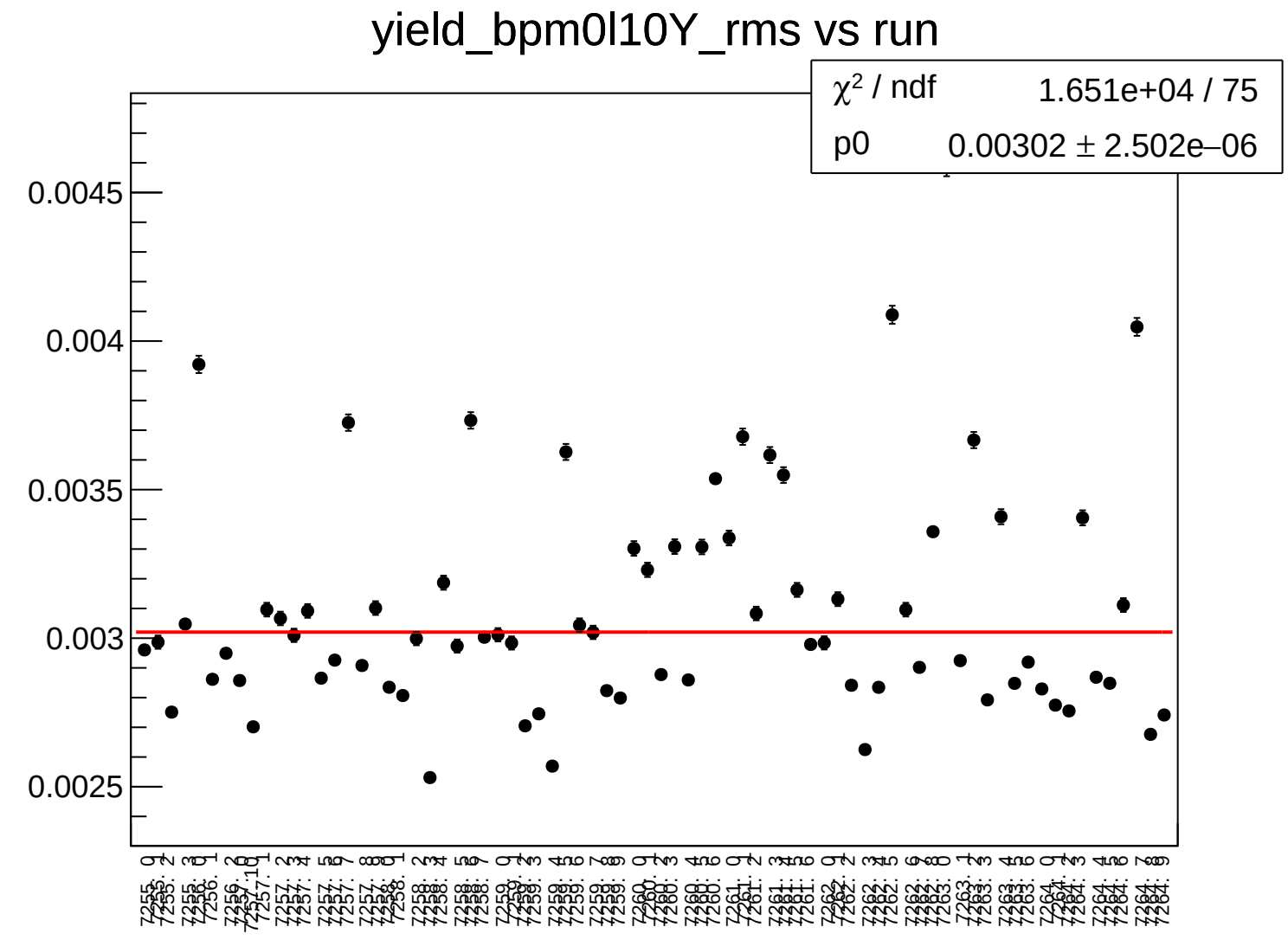

yield_bpm0l10X_mean vs run
χ² / ndf 3.804e+04 / 75
p0 −1.12 ± 1.032e−05
−1.116
−1.118
−1.12
−1.122
−1.124
−1.126
pull
Entries 76
Mean 817.3
Std Dev 781.5
40
20
0
−20
−40
−60

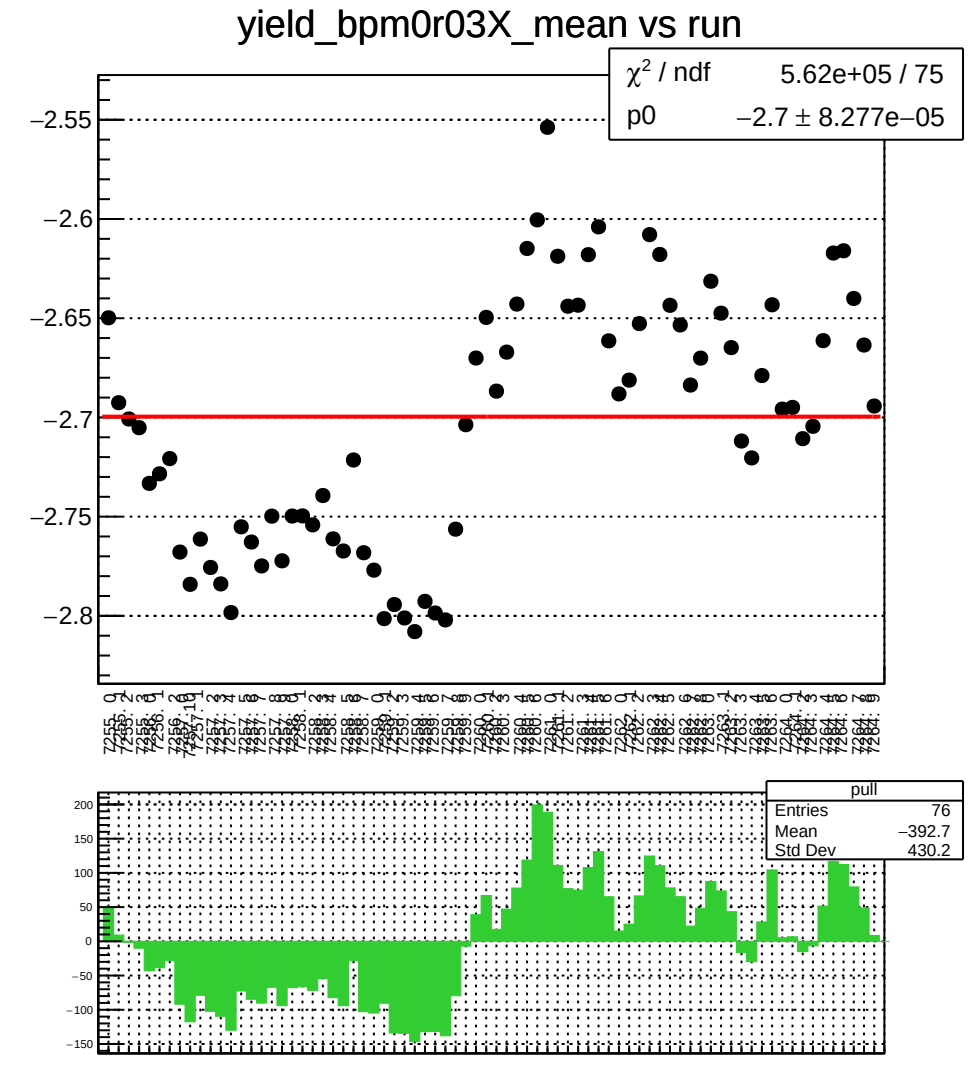

pull1D
Entries 76
Mean 0.1994
Std Dev 4.612
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

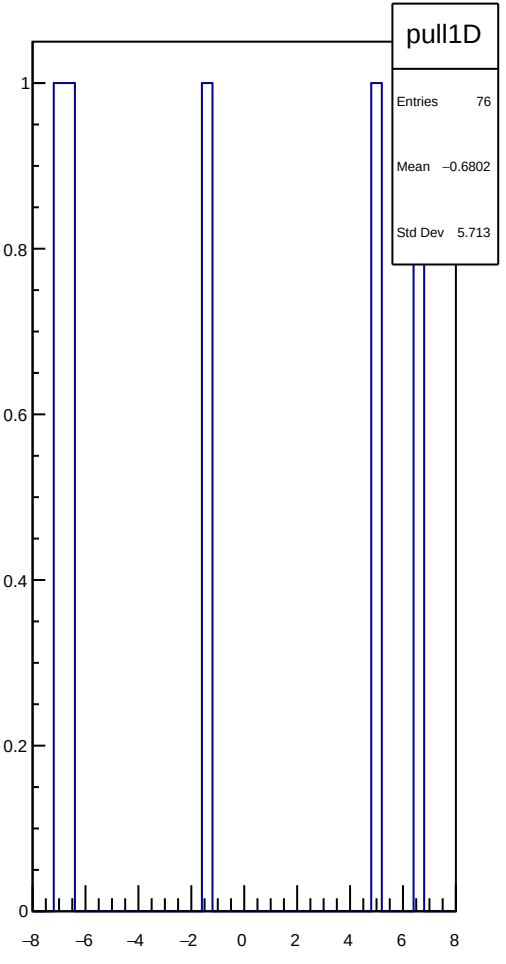

yield_bpm0l10X_rms vs run
χ² / ndf 2903 / 75
p0 0.008849 ± 7.296e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008

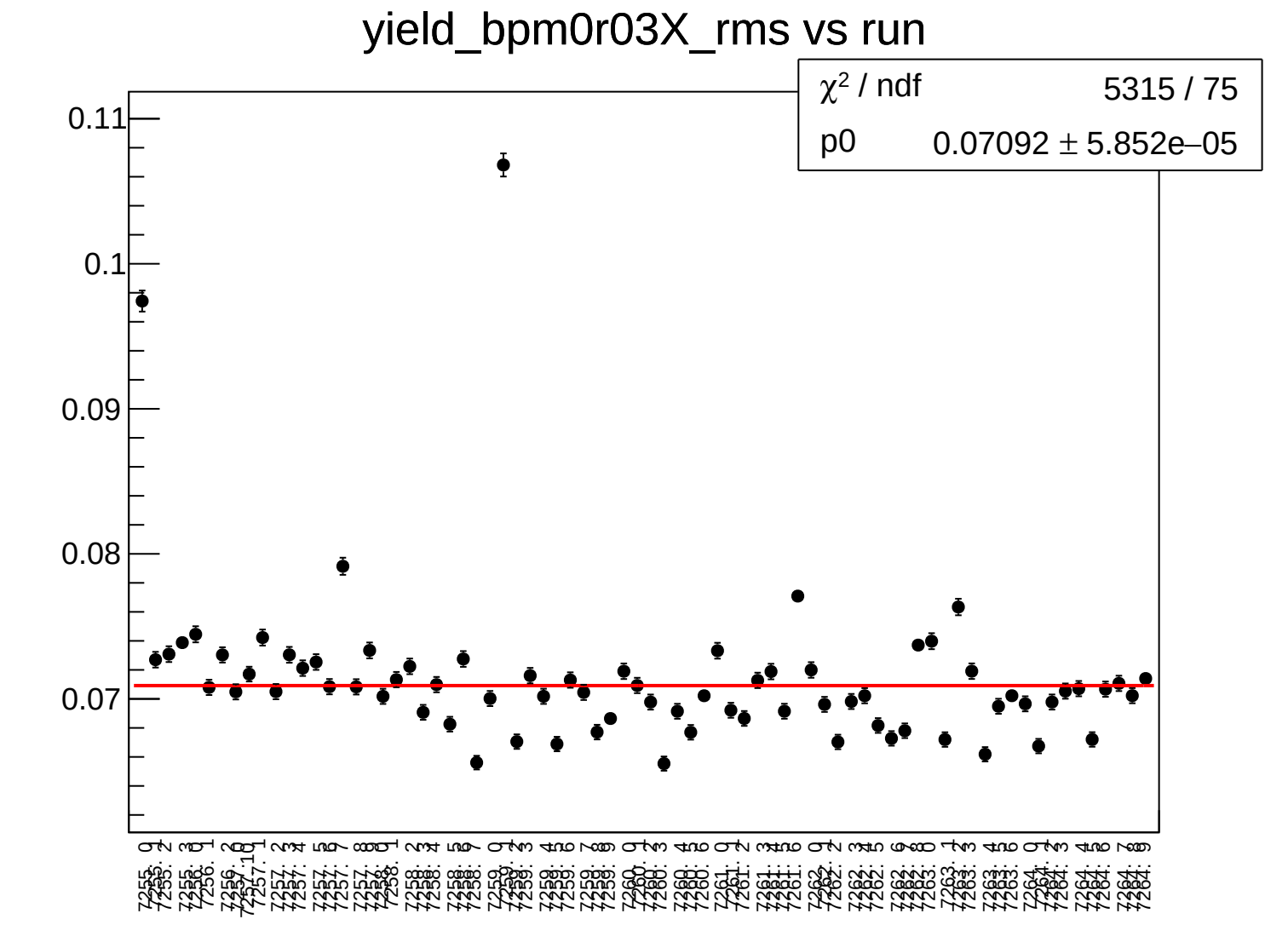

yield_bpm0l10Y_mean vs run
χ² / ndf 1.68e+06 / 75
p0 −0.5683 ± 3.538e−06
−0.56
−0.562
−0.564
−0.566
−0.568
−0.57
−0.572
−0.574
−0.576
pull
Entries 76
Mean 1.794e+05
Std Dev 1.794e+05
200
100
0
−100
−200
−300

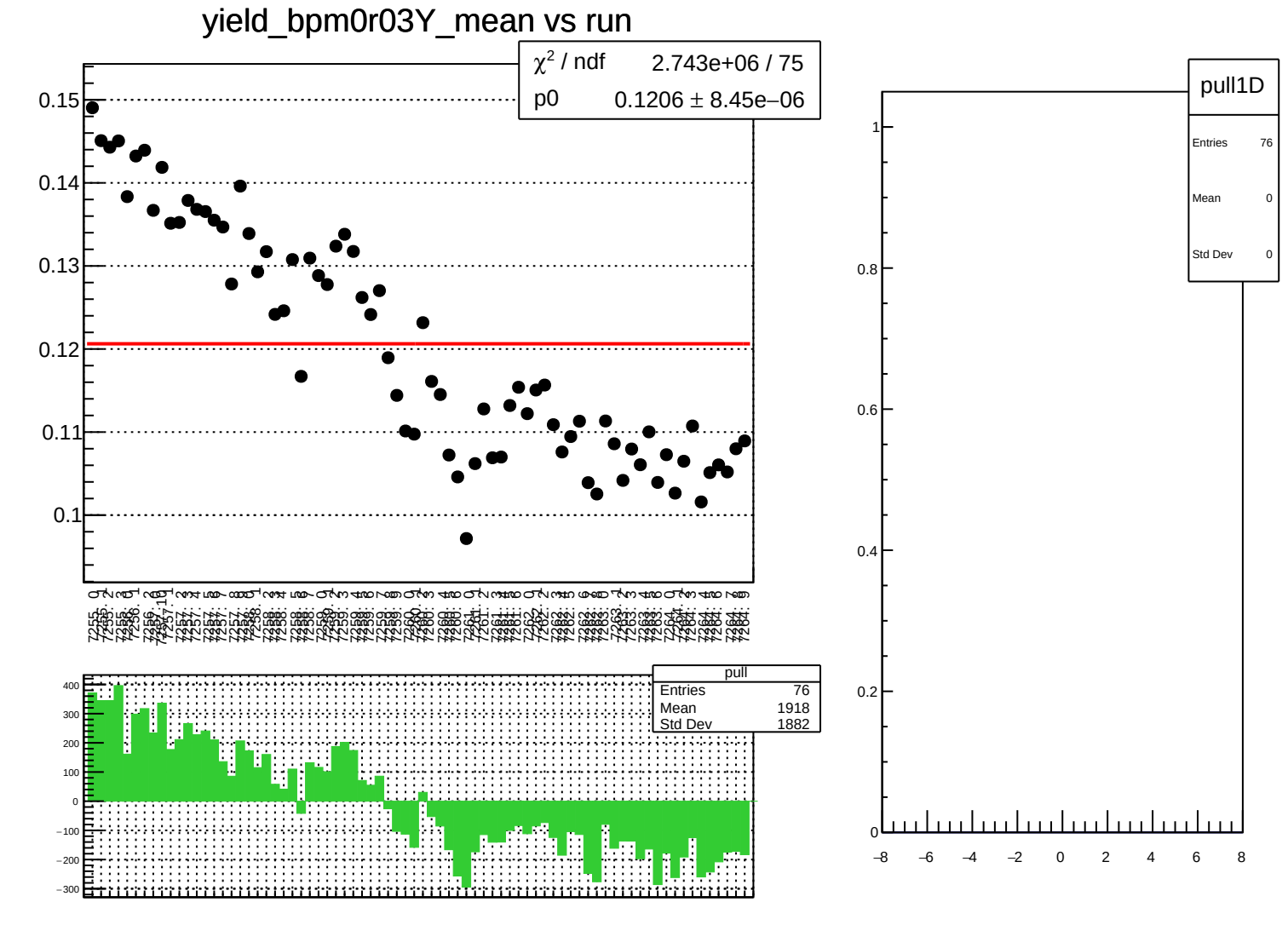

pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

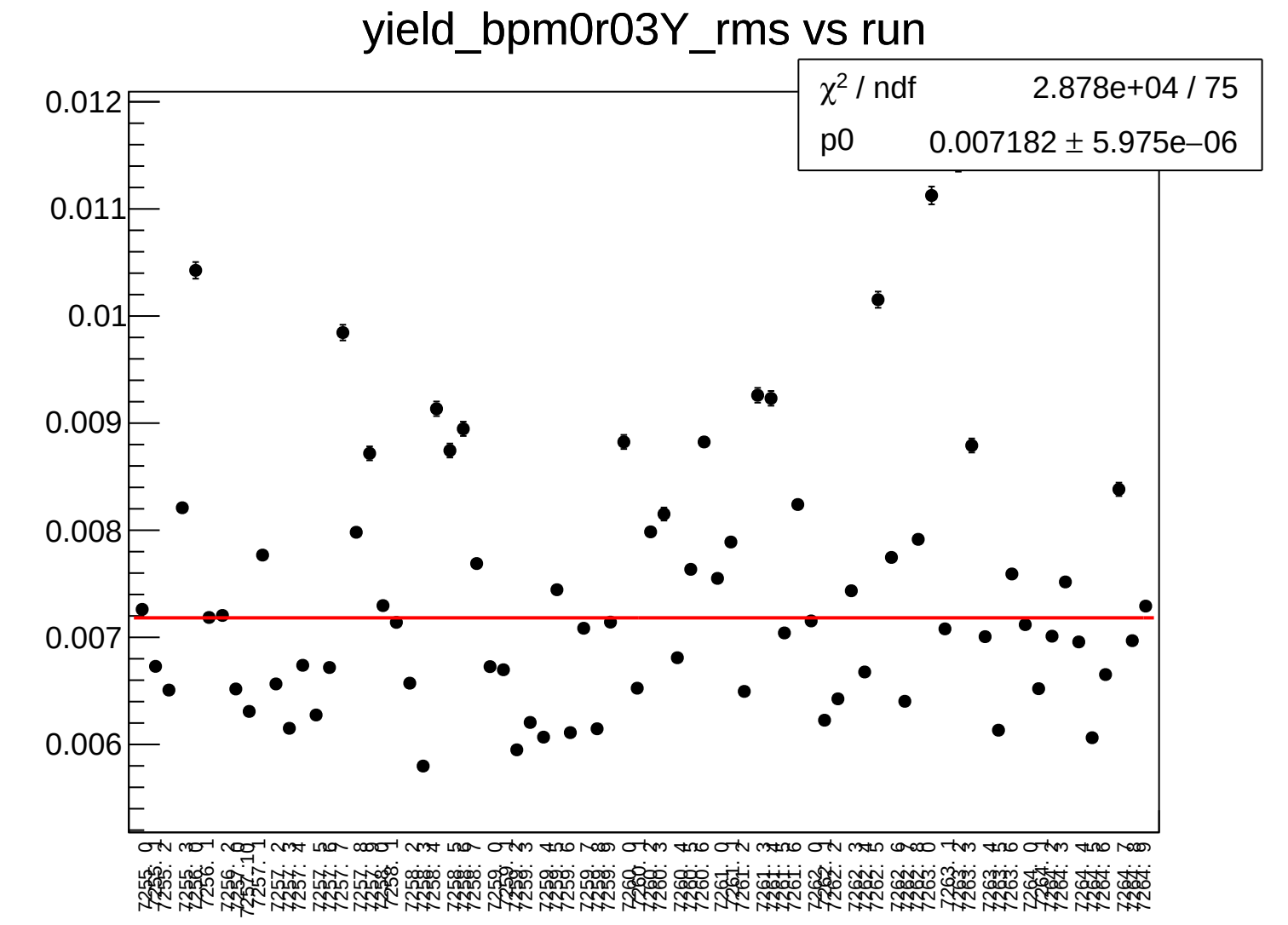

yield_bpm0l10Y_rms vs run
χ² / ndf 1.651e+04 / 75
p0 0.00302 ± 2.502e–06
0.0045
0.004
0.0035
0.003
0.0025

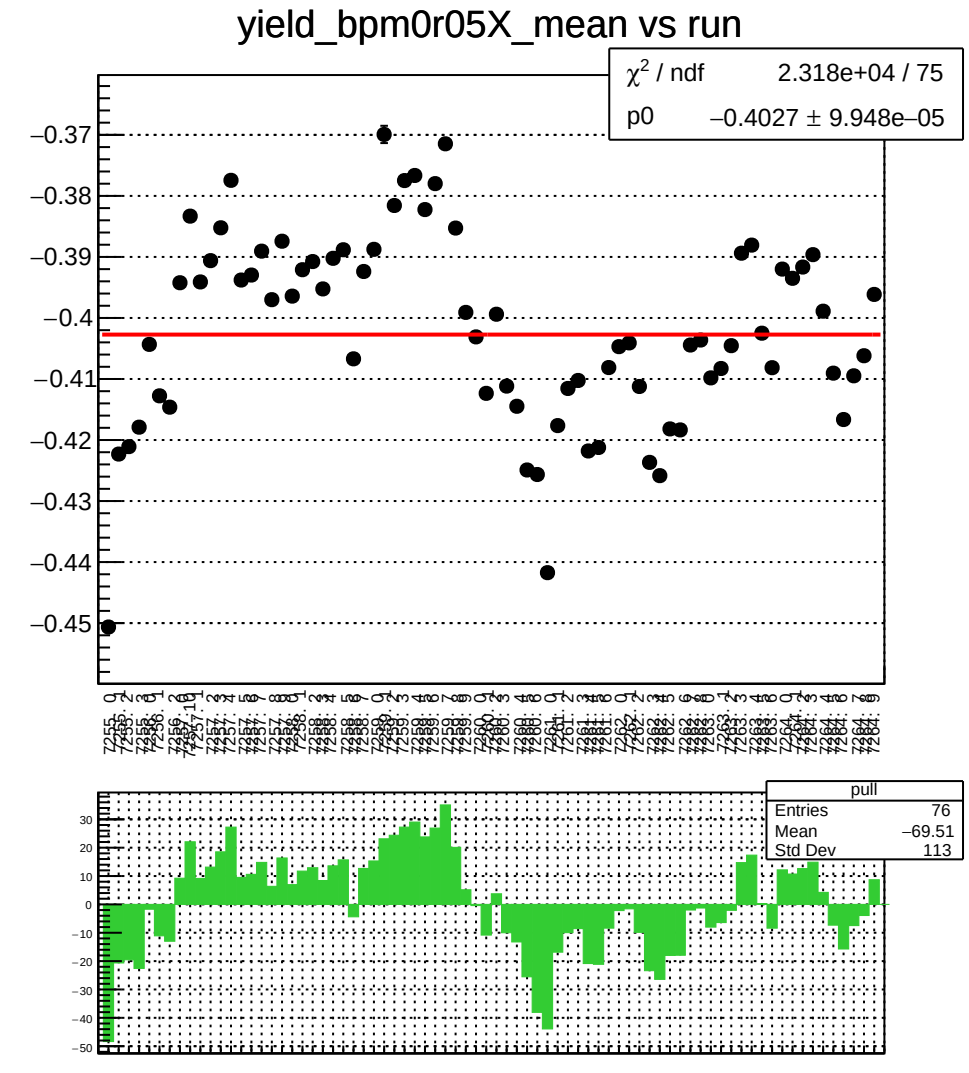

yield_bpm0r03X_mean vs run
χ² / ndf 5.62e+05 / 75
p0 −2.7 ± 8.277e−05
−2.55
−2.6
−2.65
−2.7
−2.75
−2.8
pull
Entries 76
Mean −392.7
Std Dev 430.2
200
150
100
50
0
−50
−100
−150

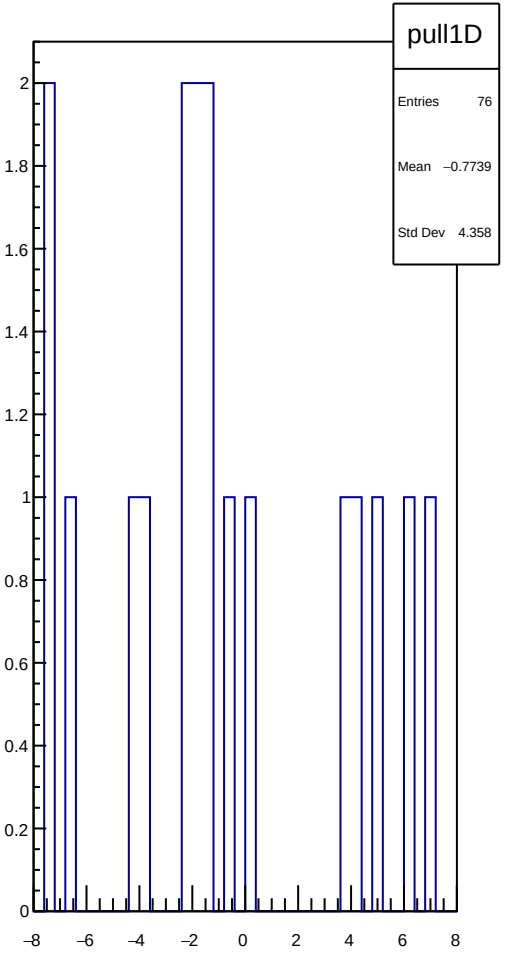

pull1D
Entries 76
Mean −0.6802
Std Dev 5.713
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

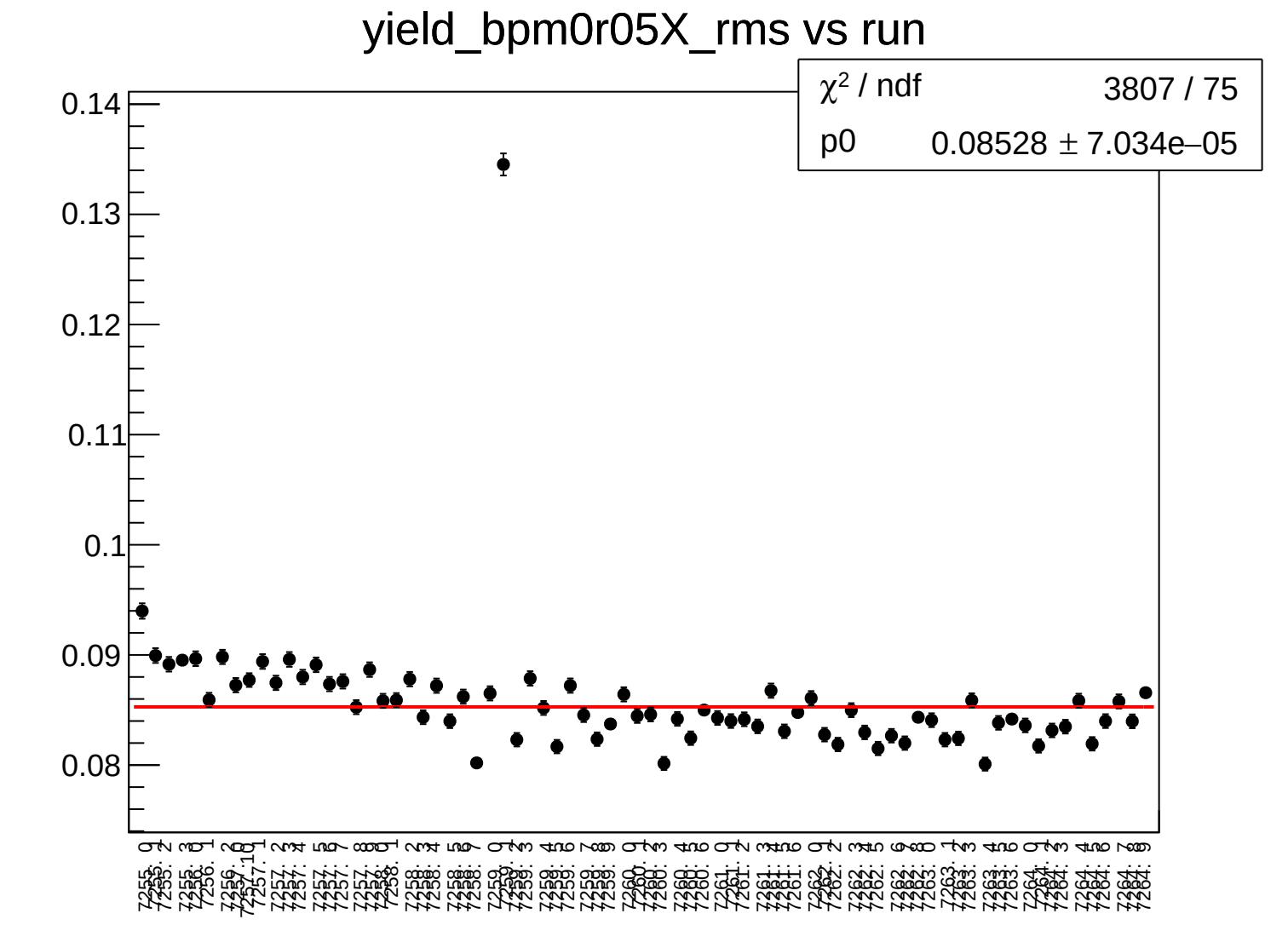

yield_bpm0r03X_rms vs run
χ² / ndf 5315 / 75
p0 0.07092 ± 5.852e–05
0.11
0.1
0.09
0.08
0.07

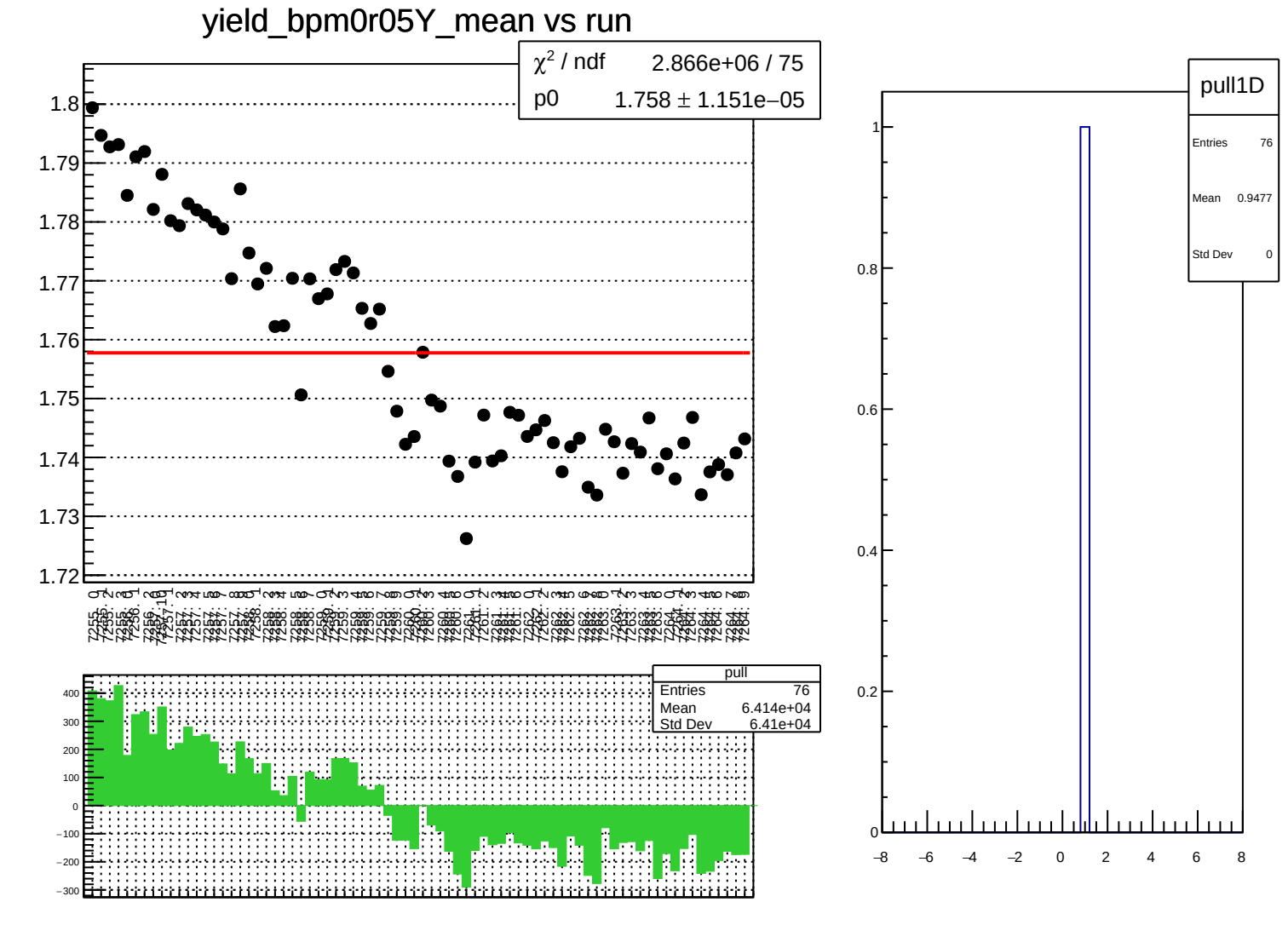

yield_bpm0r03Y_mean vs run
χ² / ndf 2.743e+06 / 75
p0 0.1206 ± 8.45e−06
0.15
0.14
0.13
0.12
0.11
0.1
pull
Entries 76
Mean 1918
Std Dev 1882
400
300
200
100
0
−100
−200
−300
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

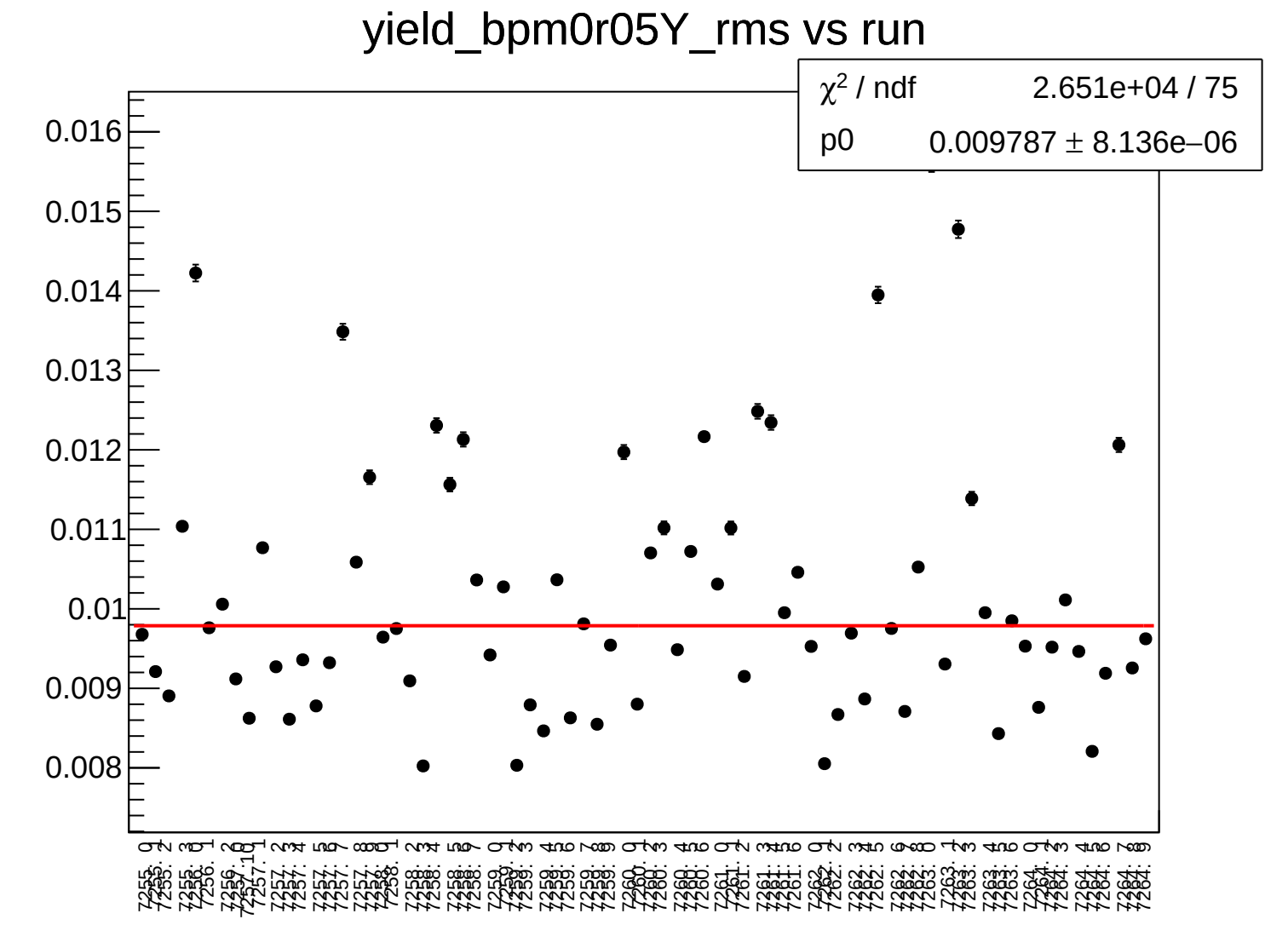

yield_bpm0r03Y_rms vs run
χ² / ndf 2.878e+04 / 75
p0 0.007182 ± 5.975e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

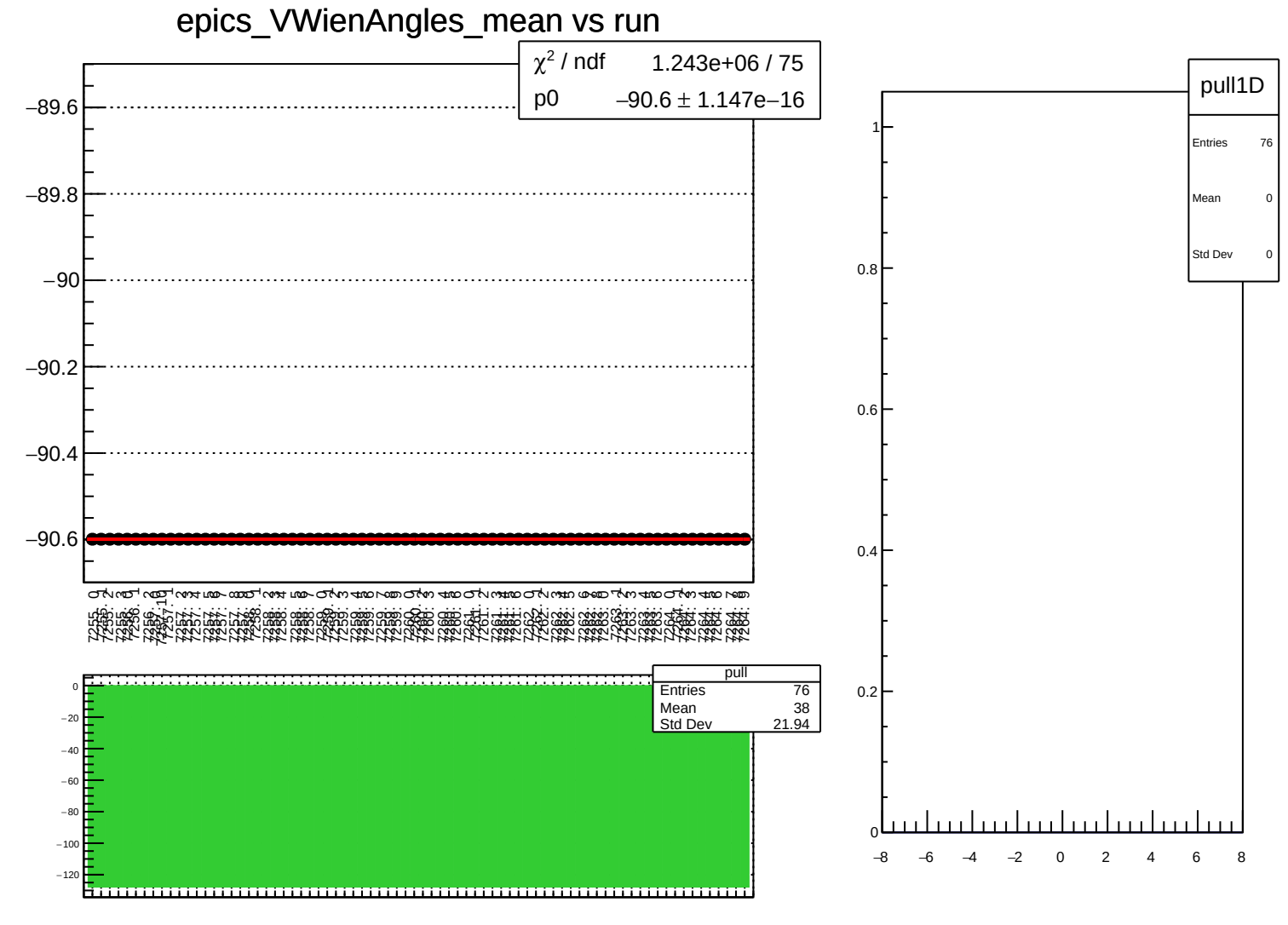

yield_bpm0r05X_mean vs run
χ² / ndf 2.318e+04 / 75
p0 −0.4027 ± 9.948e−05
pull
Entries 76
Mean −69.51
Std Dev 113

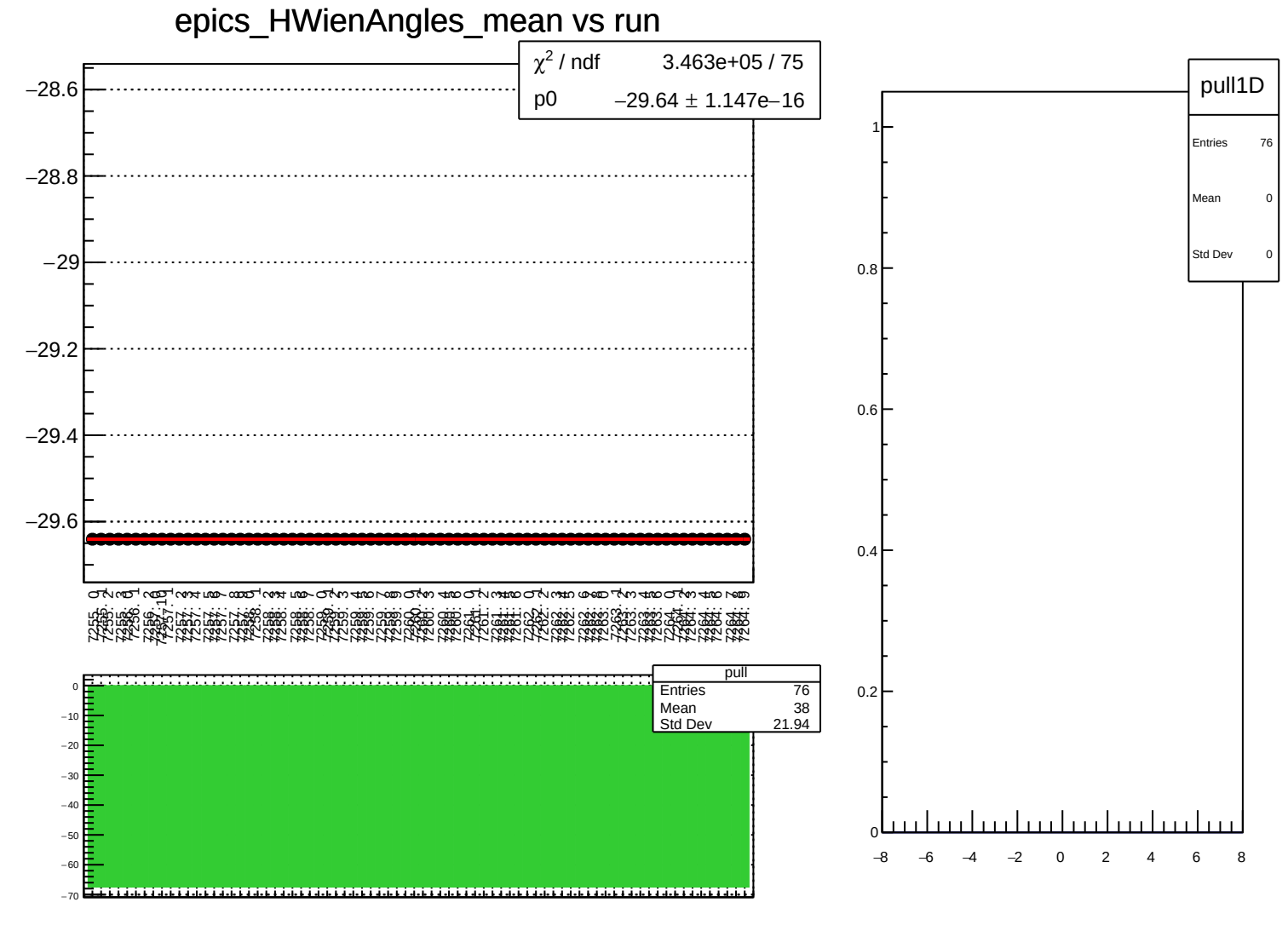

pull1D
Entries 76
Mean −0.7739
Std Dev 4.358

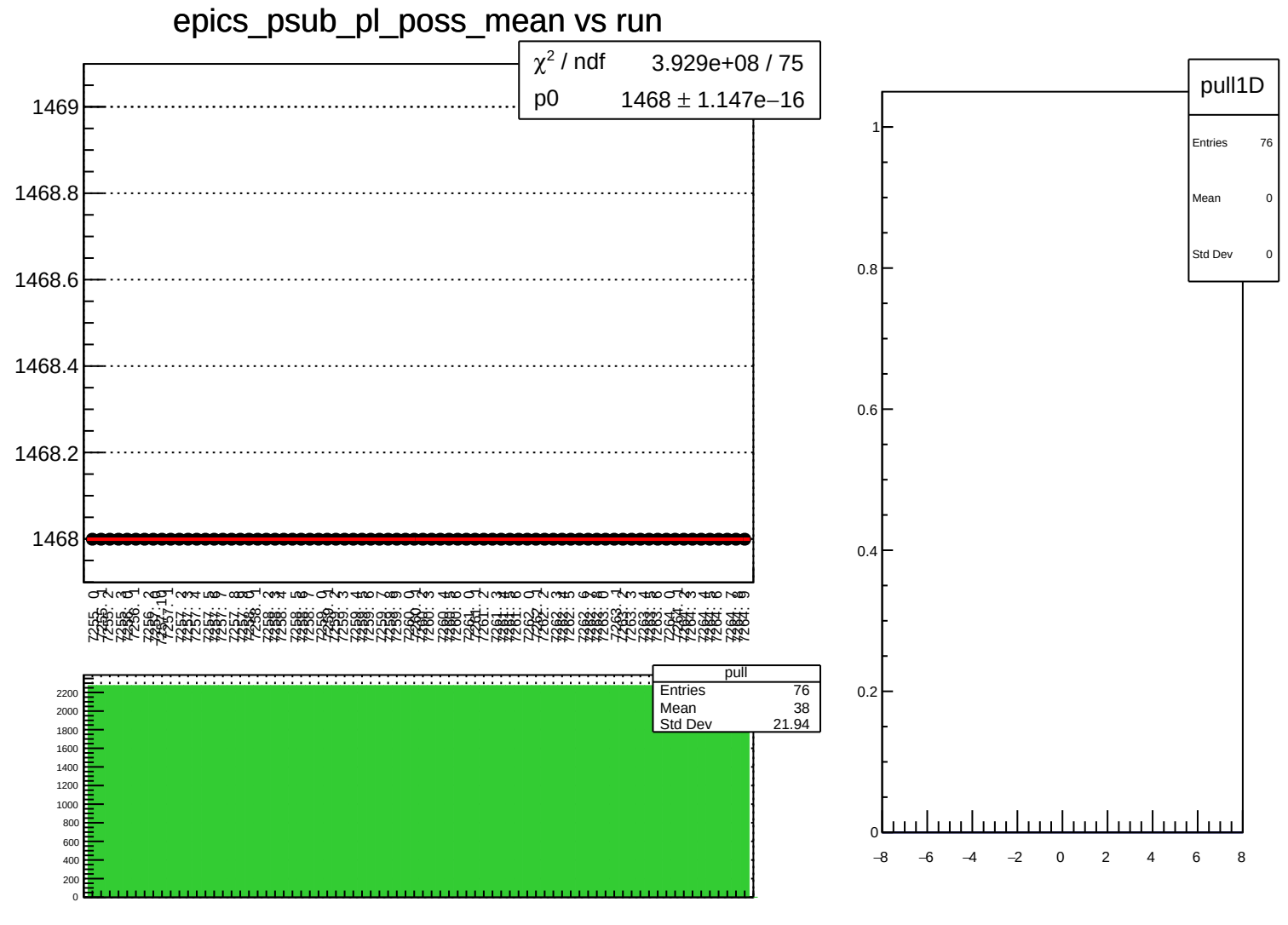

yield_bpm0r05X_rms vs run
χ² / ndf 3807 / 75
p0 0.08528 ± 7.034e–05
0.14
0.13
0.12
0.11
0.1
0.09
0.08

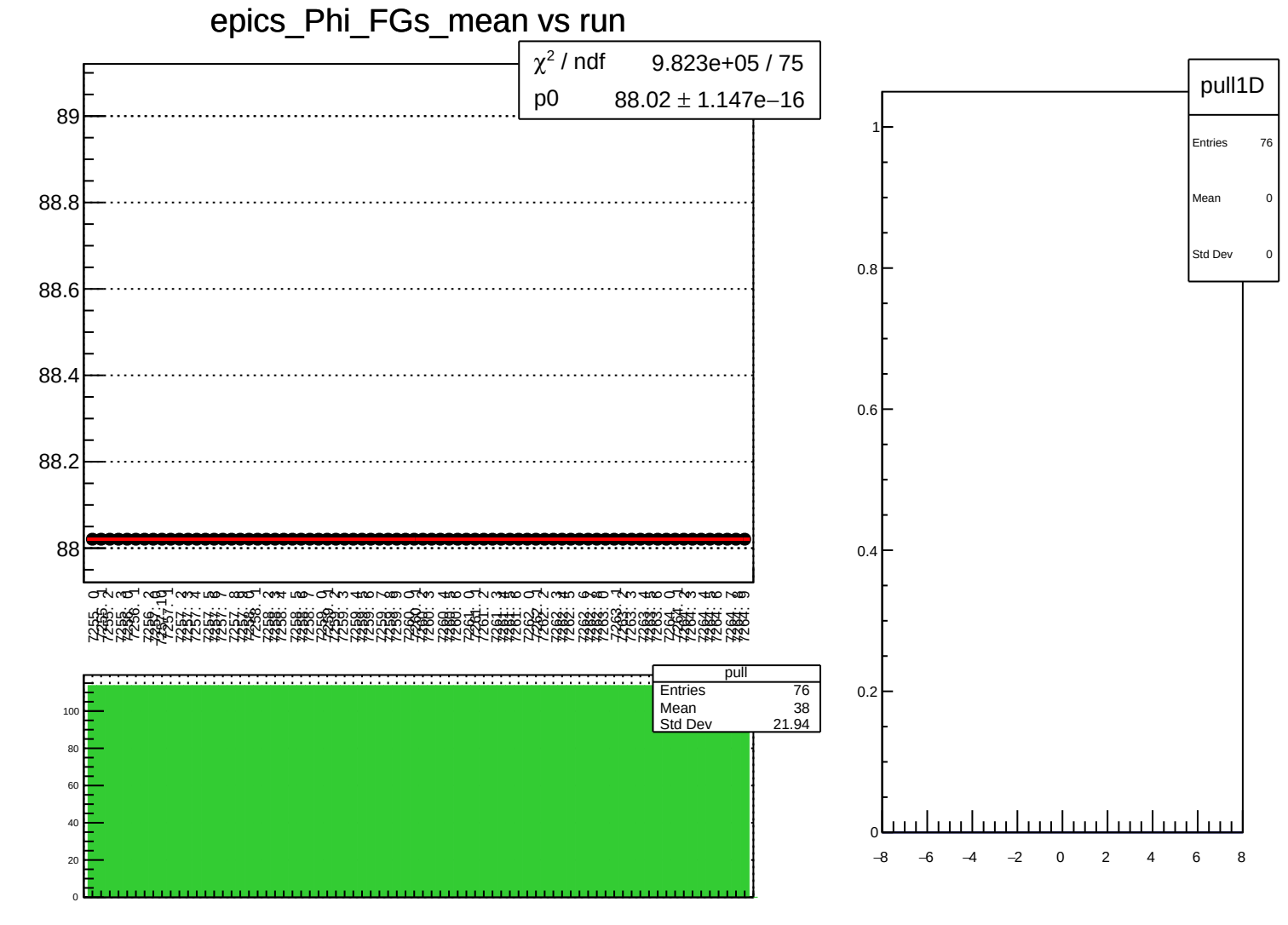

yield_bpm0r05Y_mean vs run
χ² / ndf 2.866e+06 / 75
p0 1.758 ± 1.151e−05
pull
Entries 76
Mean 6.414e+04
Std Dev 6.41e+04
pull1D
Entries 76
Mean 0.9477
Std Dev 0

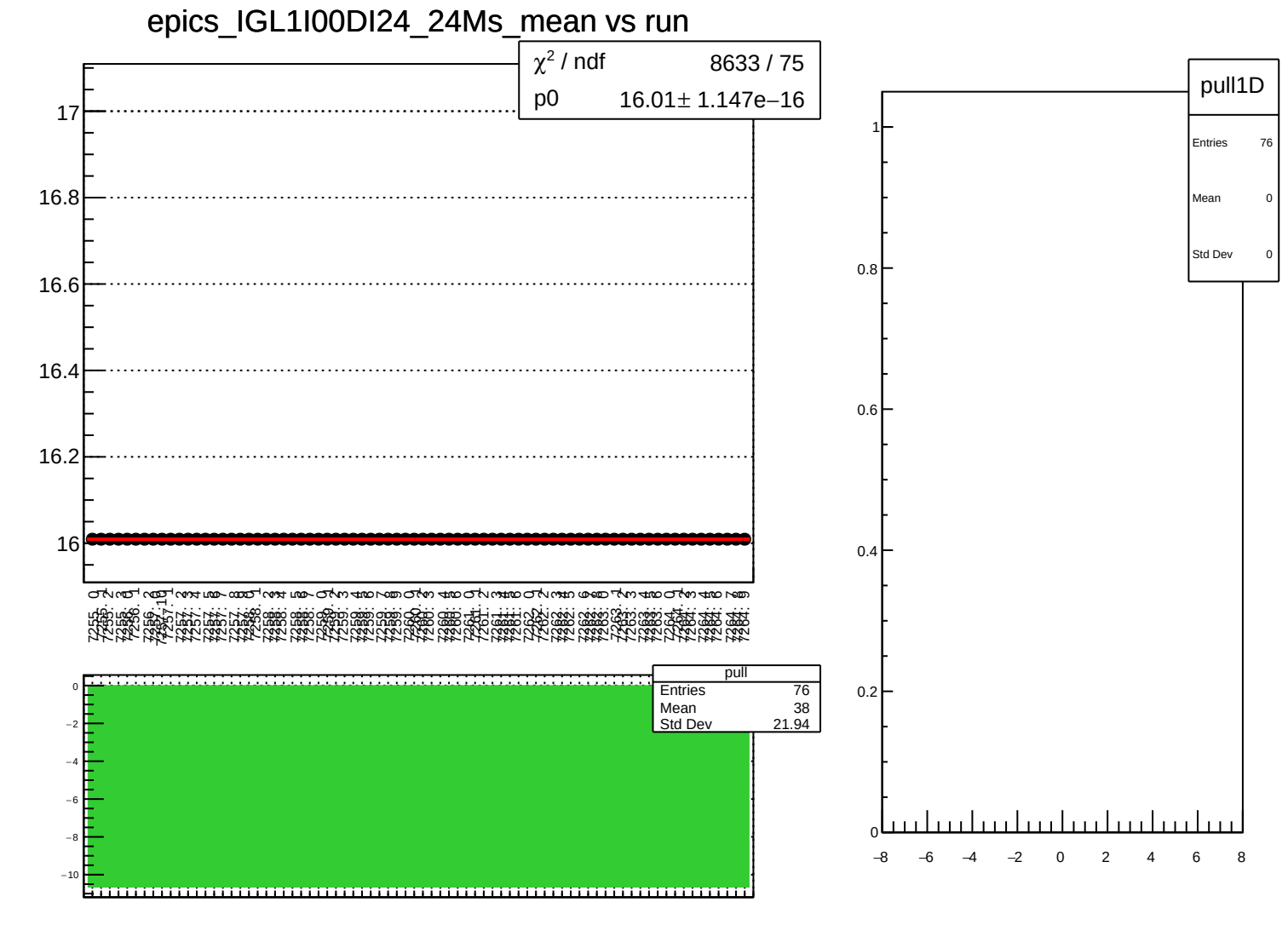

yield_bpm0r05Y_rms vs run
χ² / ndf 2.651e+04 / 75
p0 0.009787 ± 8.136e−06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

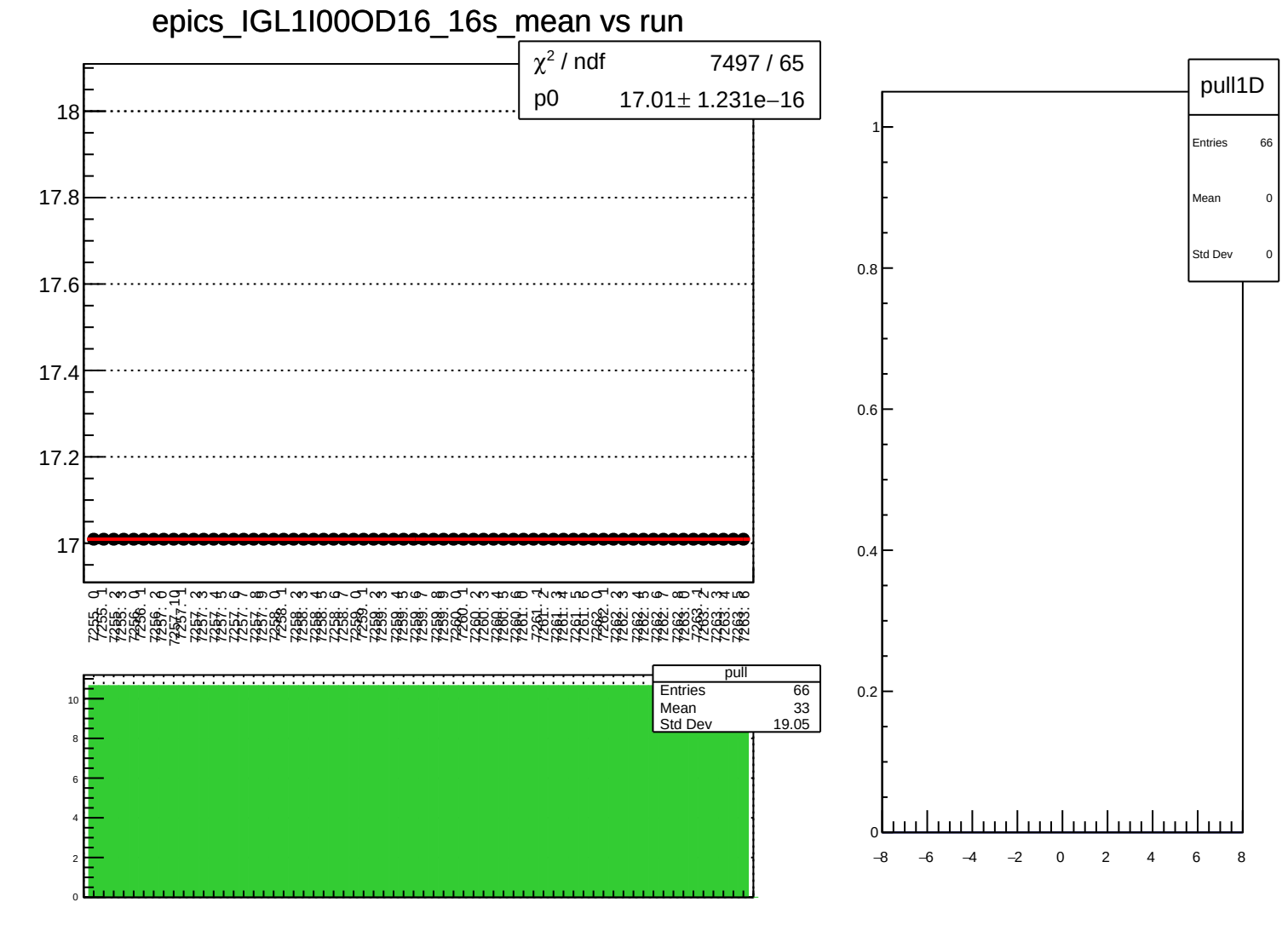

epics_VWienAngles_mean vs run
χ² / ndf 1.243e+06 / 75
p0 −90.6 ± 1.147e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 76
Mean 38
Std Dev 21.94
0
−20
−40
−60
−80
−100
−120
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

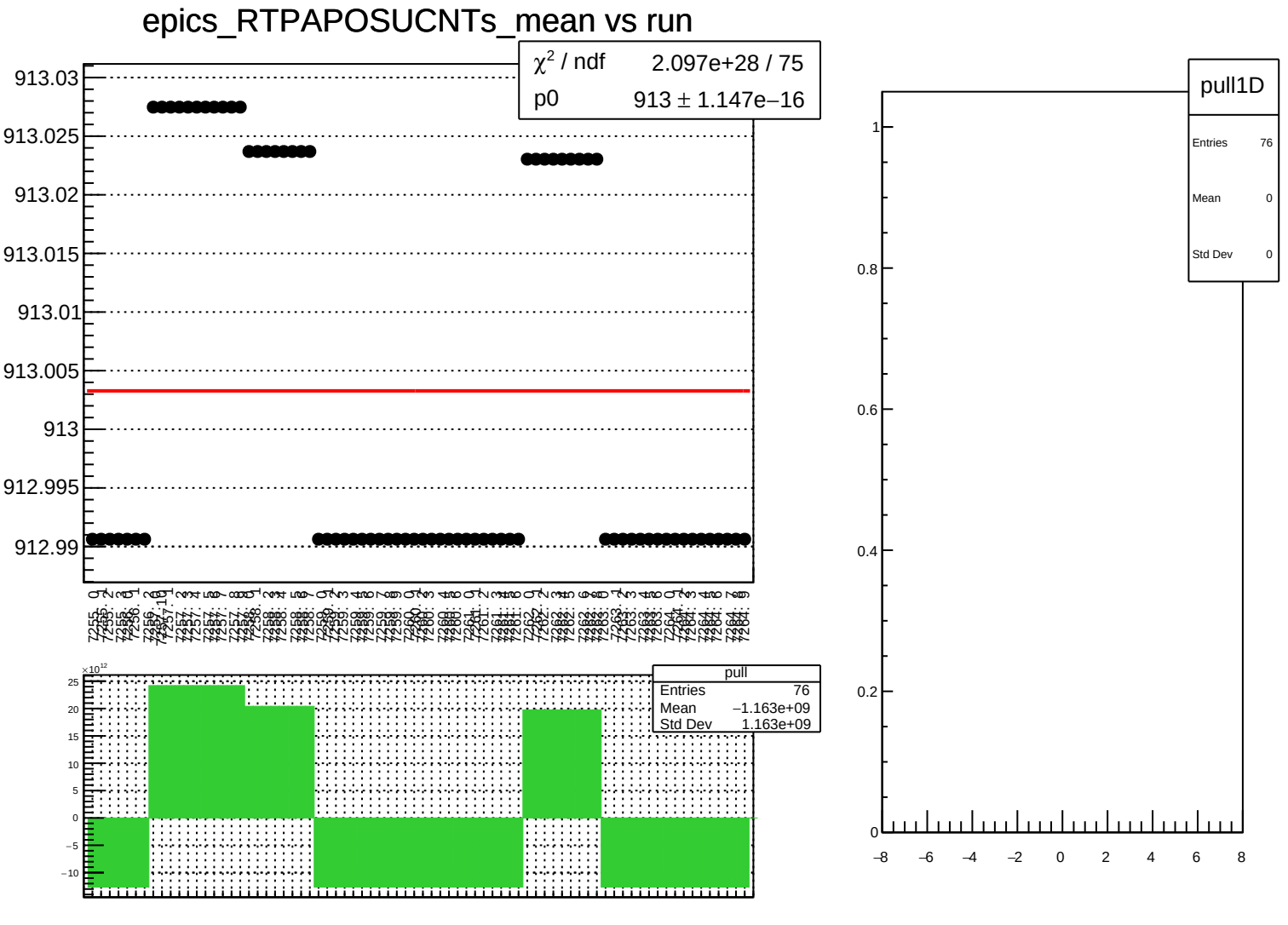

epics_HWienAngles_mean vs run
χ² / ndf 3.463e+05 / 75
p0 −29.64 ± 1.147e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 76
Mean 38
Std Dev 21.94
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

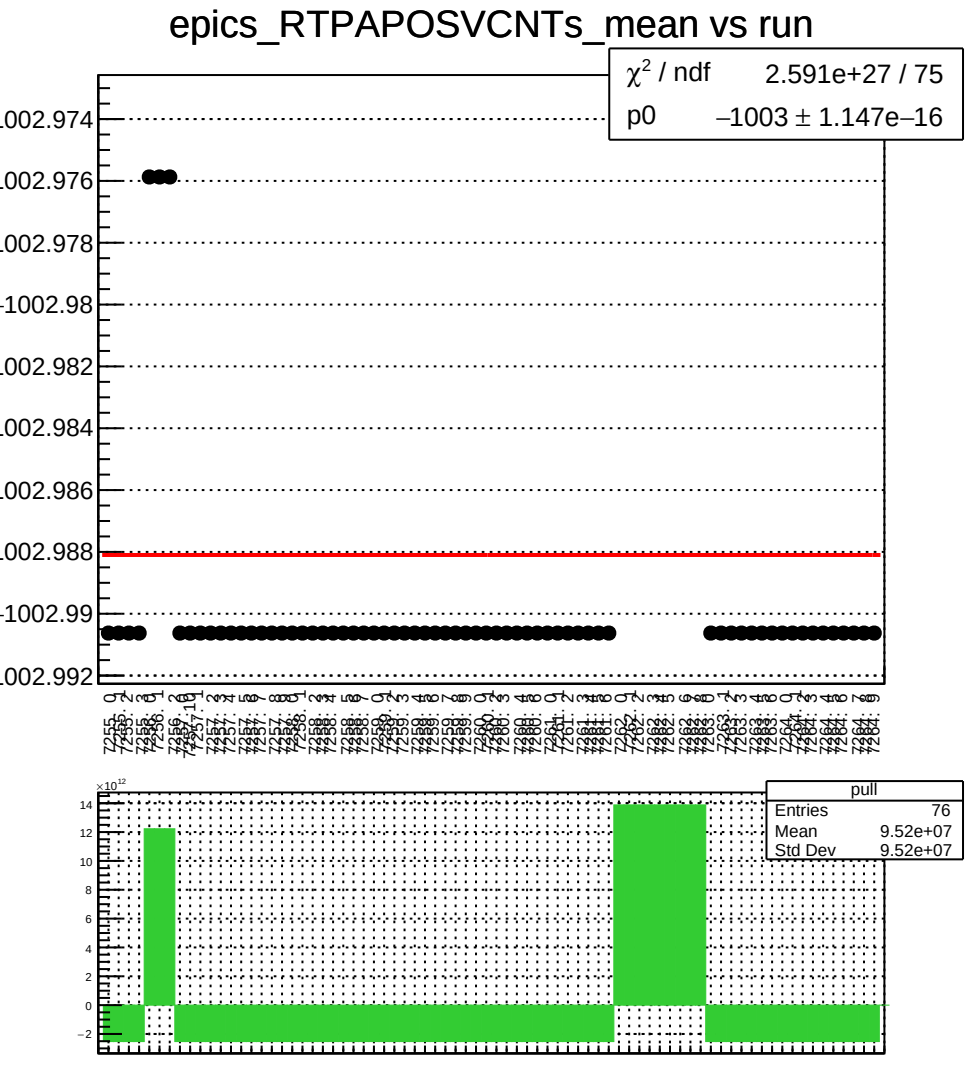

epics_psub_pl_poss_mean vs run
χ² / ndf 3.929e+08 / 75
p0 1468 ± 1.147e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 76
Mean 38
Std Dev 21.94
2200
2000
1800
1600
1400
1200
1000
800
600
400
200
0
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

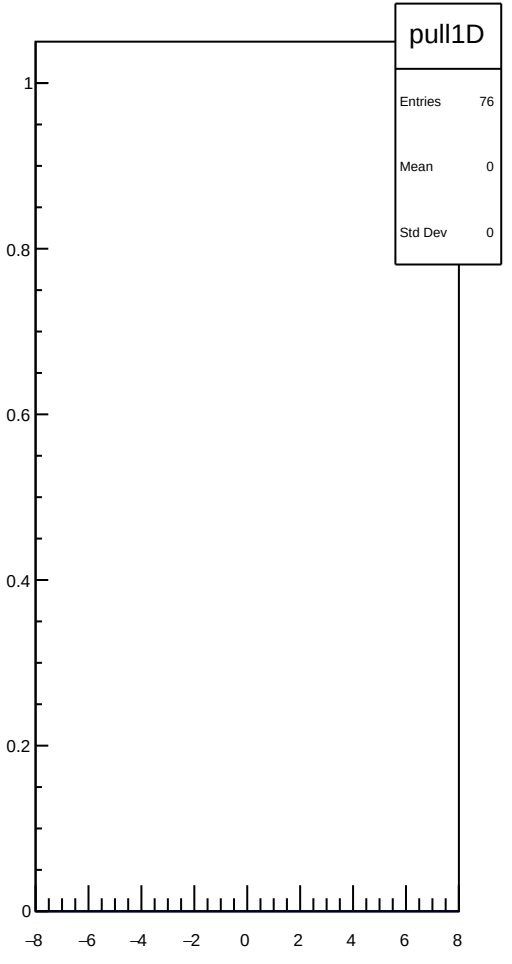

epics_Phi_FGs_mean vs run
χ² / ndf 9.823e+05 / 75
p0 88.02 ± 1.147e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 76
Mean 38
Std Dev 21.94
100
80
60
40
20
0
pull1D
Entries 76
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 8633 / 75
p0 16.01± 1.147e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 76
Mean 38
Std Dev 21.94
0
−2
−4
−6
−8
−10
pull1D
Entries 76
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 7497 / 65
p0 17.01± 1.231e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 66
Mean 33
Std Dev 19.05
10
8
6
4
2
0
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 2.097e+28 / 75
p0 913 ± 1.147e−16
913.03
913.025
913.02
913.015
913.01
913.005
913
912.995
912.99
pull
Entries 76
Mean −1.163e+09
Std Dev 1.163e+09
pull1D
Entries 76
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 2.591e+27 / 75
p0 −1003 ± 1.147e−16
−1002.974
−1002.976
−1002.978
−1002.98
−1002.982
−1002.984
−1002.986
−1002.988
−1002.99
−1002.992
pull
Entries 76
Mean 9.52e+07
Std Dev 9.52e+07
×10¹²


pull1D
Entries 76
Mean 0
Std Dev 0