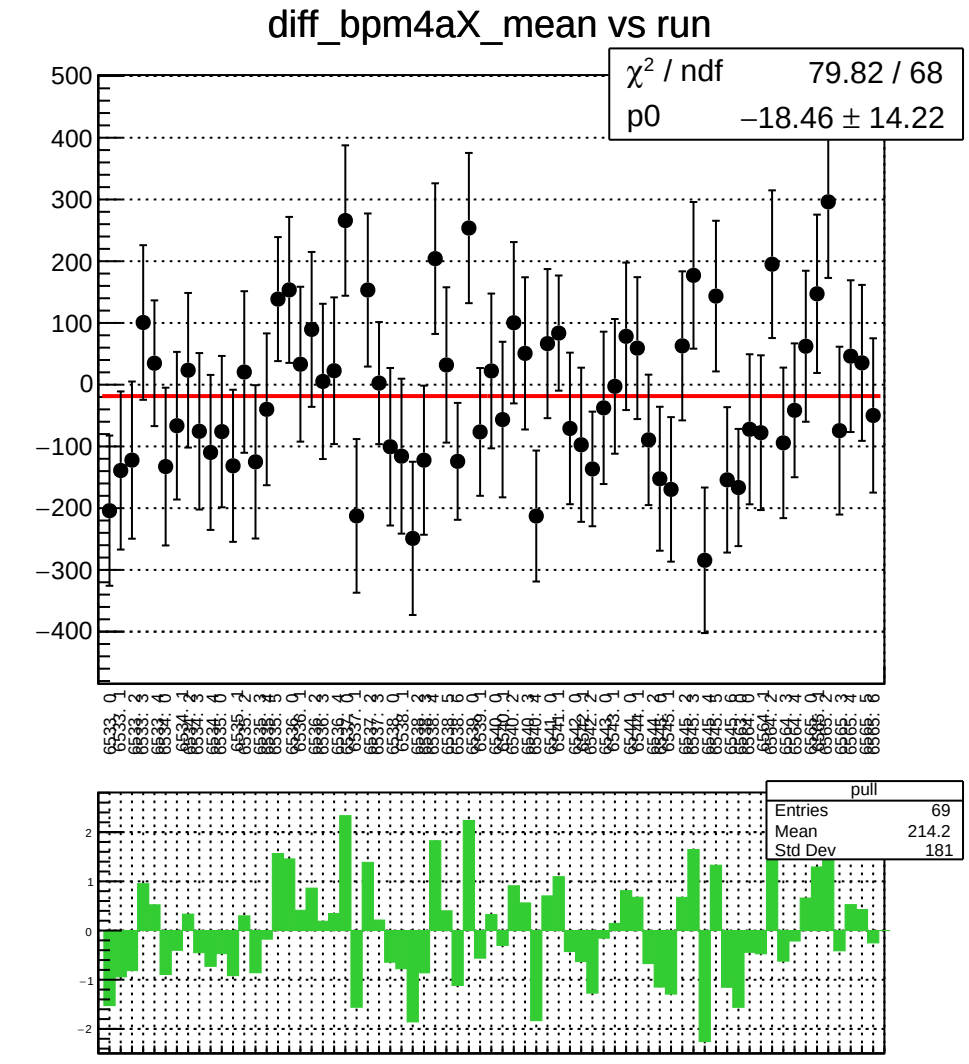
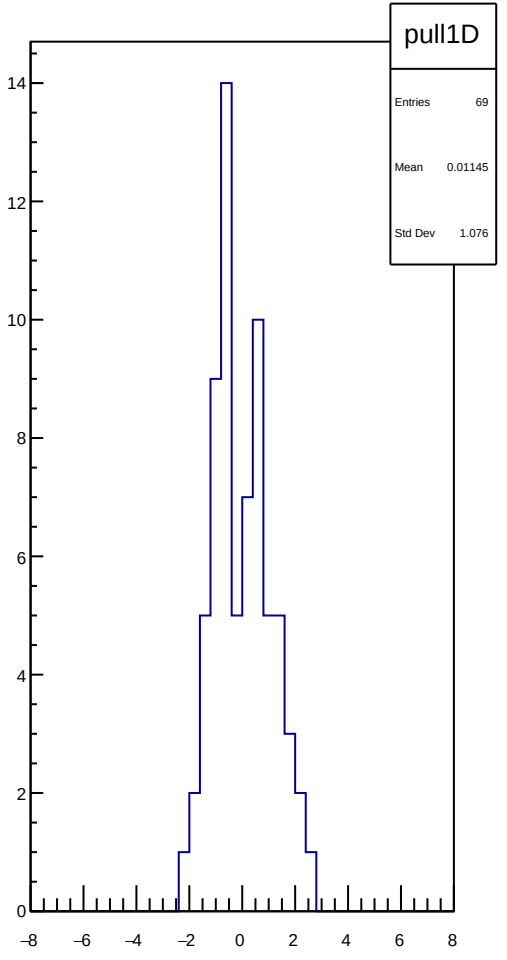
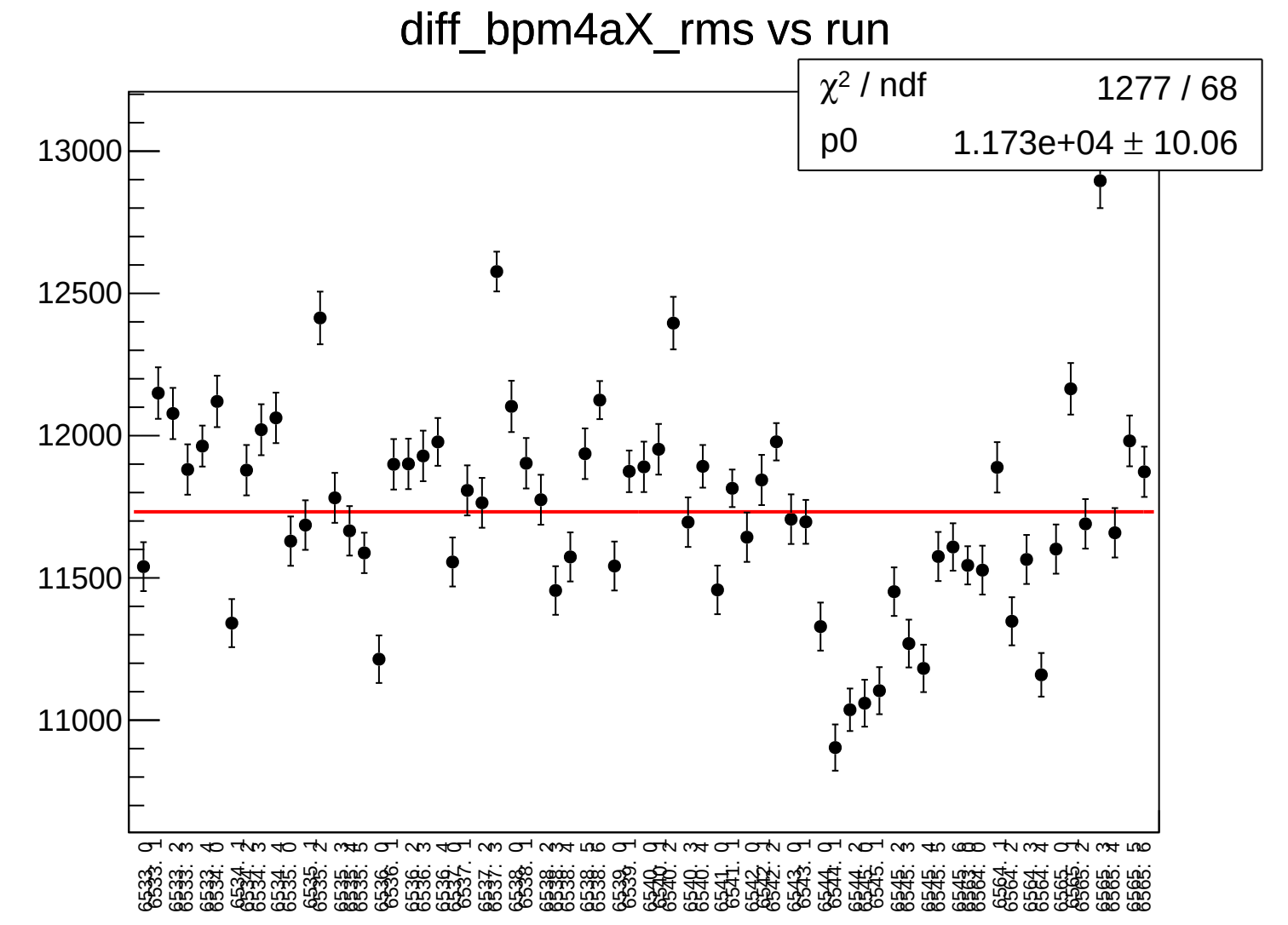
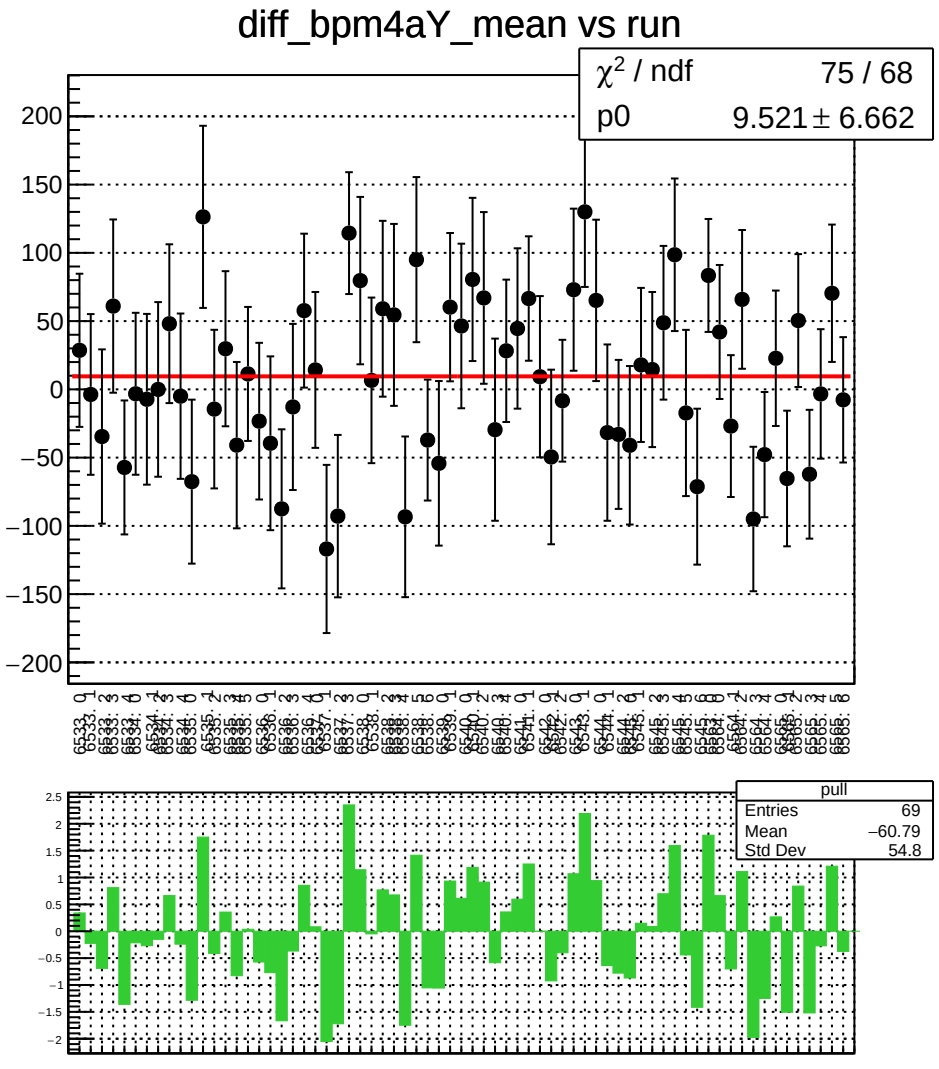
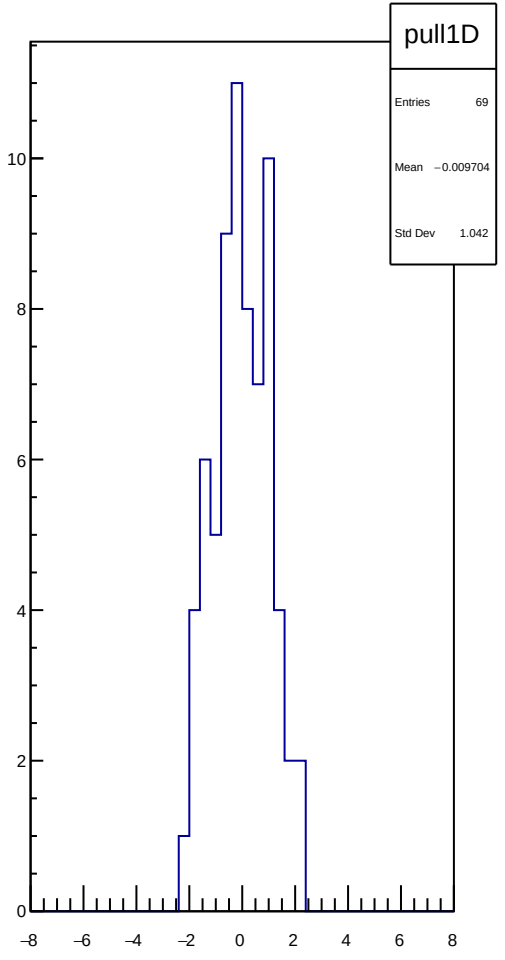
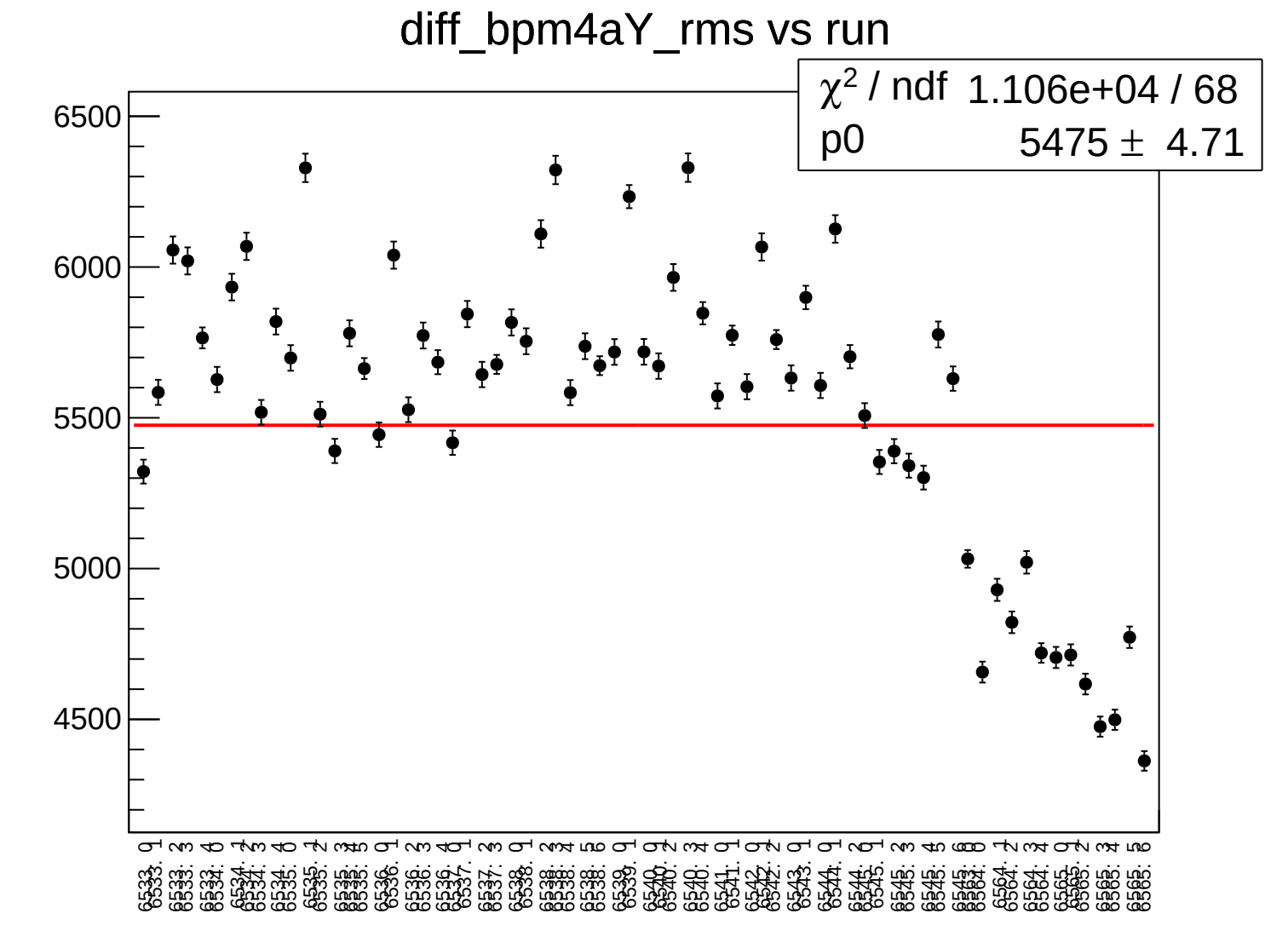

diff_bpm4aX_mean vs run
χ² / ndf 79.82 / 68
p0 −18.46 ± 14.22
pull
Entries 69
Mean 214.2
Std Dev 181

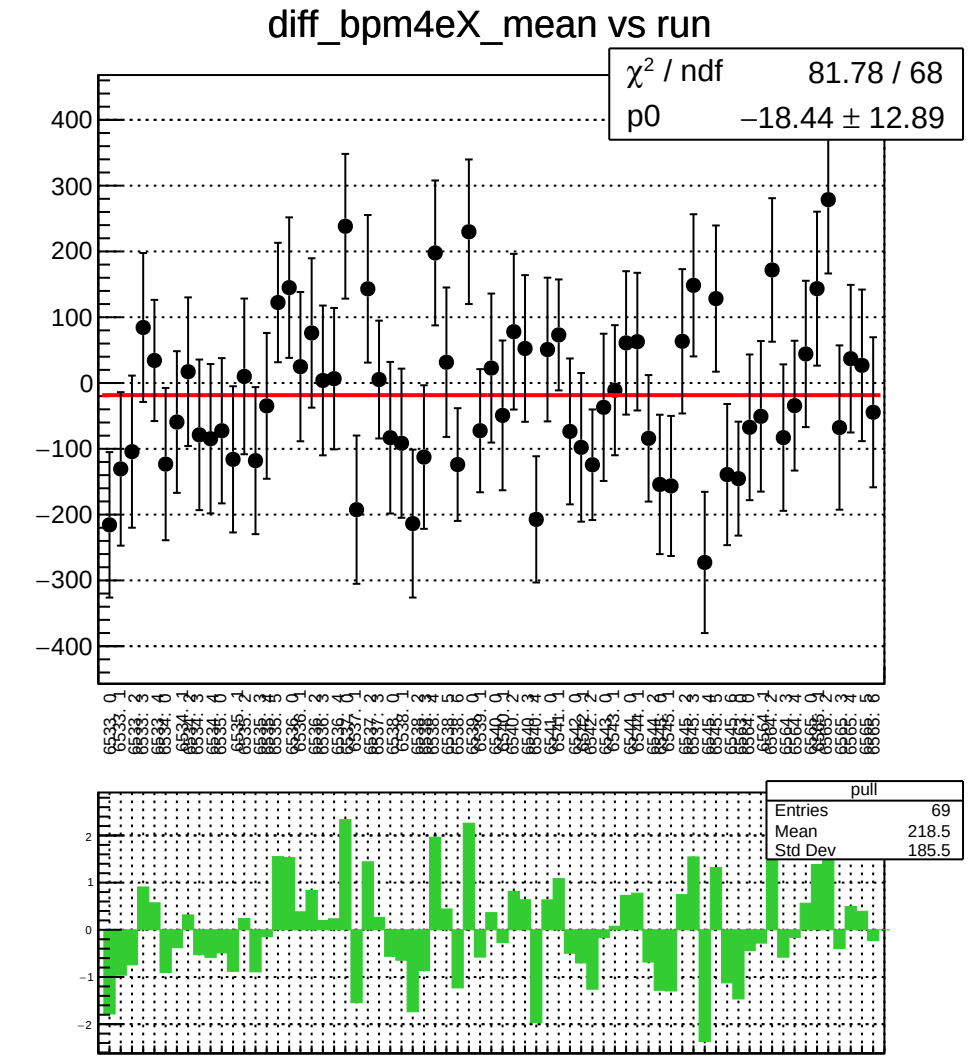

pull1D
Entries 69
Mean 0.01145
Std Dev 1.076

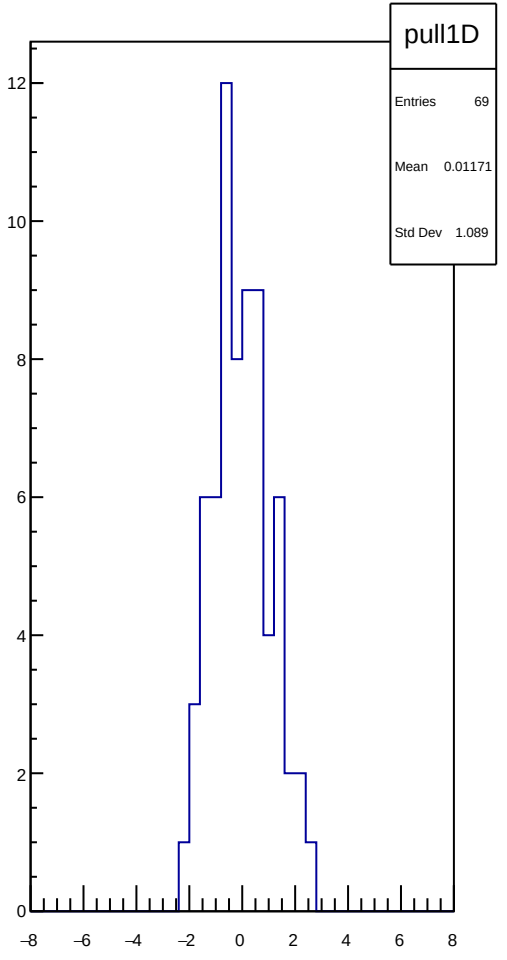

diff_bpm4aX_rms vs run
χ² / ndf 1277 / 68
p0 1.173e+04 ± 10.06
13000
12500
12000
11500
11000

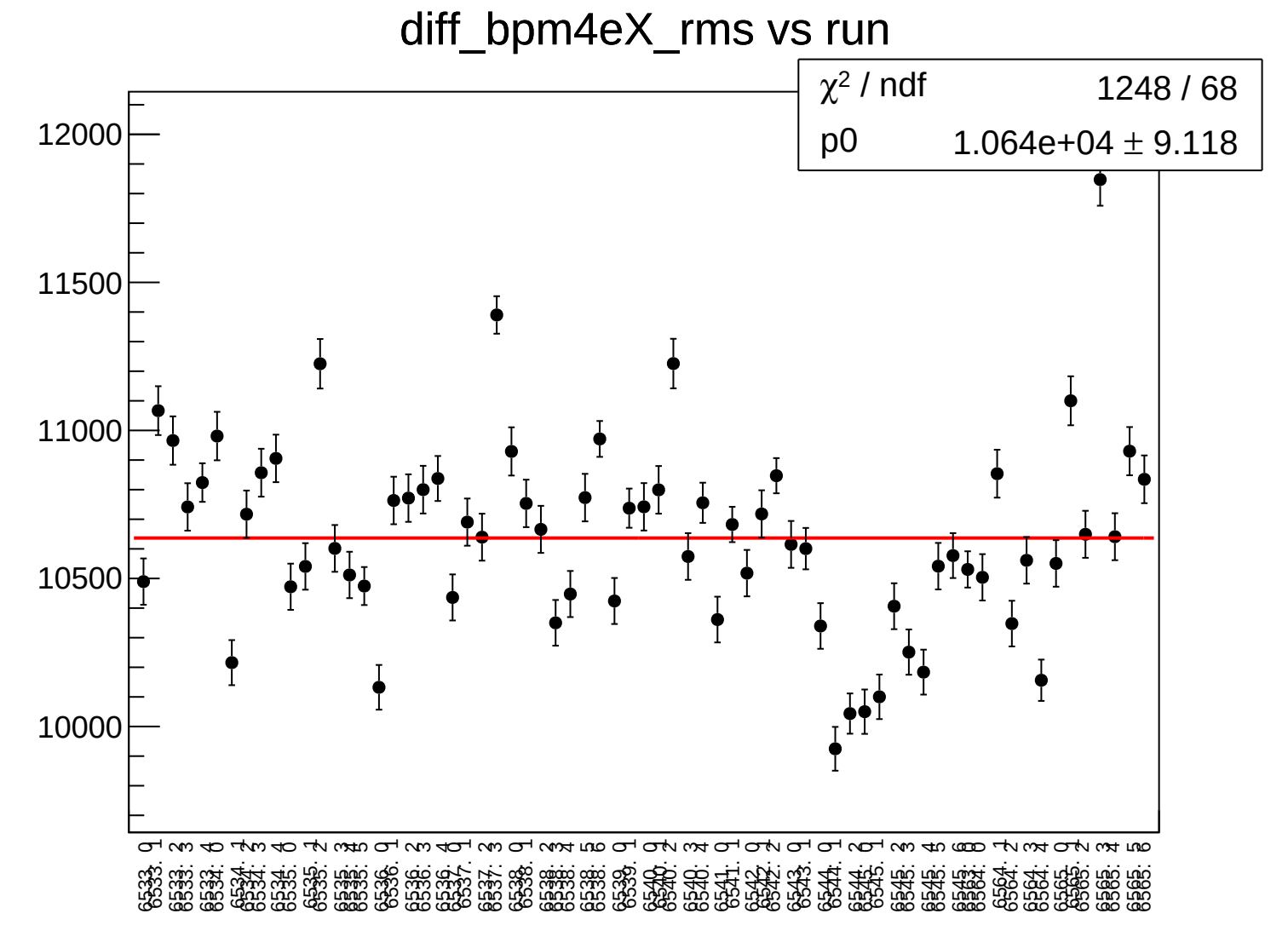

diff_bpm4aY_mean vs run
χ² / ndf 75 / 68
p0 9.521 ± 6.662
pull
Entries 69
Mean −60.79
Std Dev 54.8

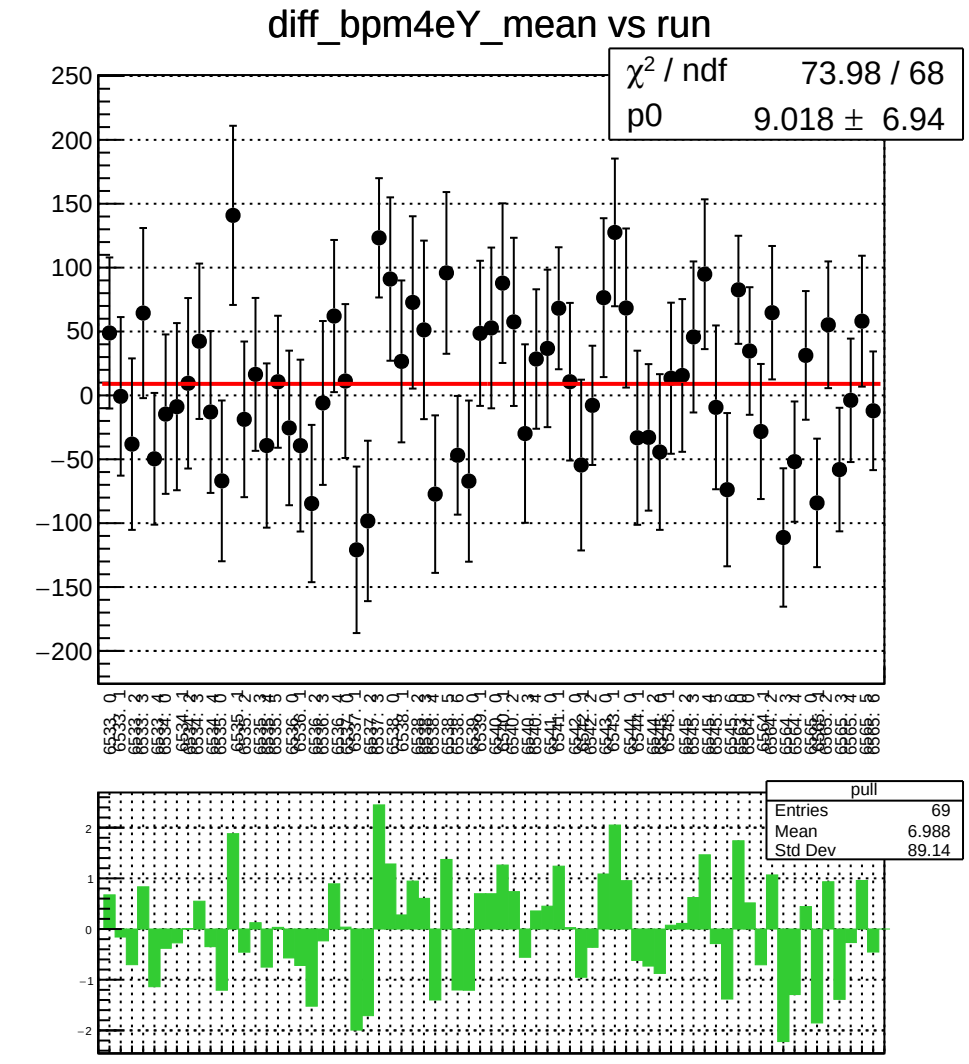

pull1D
Entries 69
Mean −0.009704
Std Dev 1.042

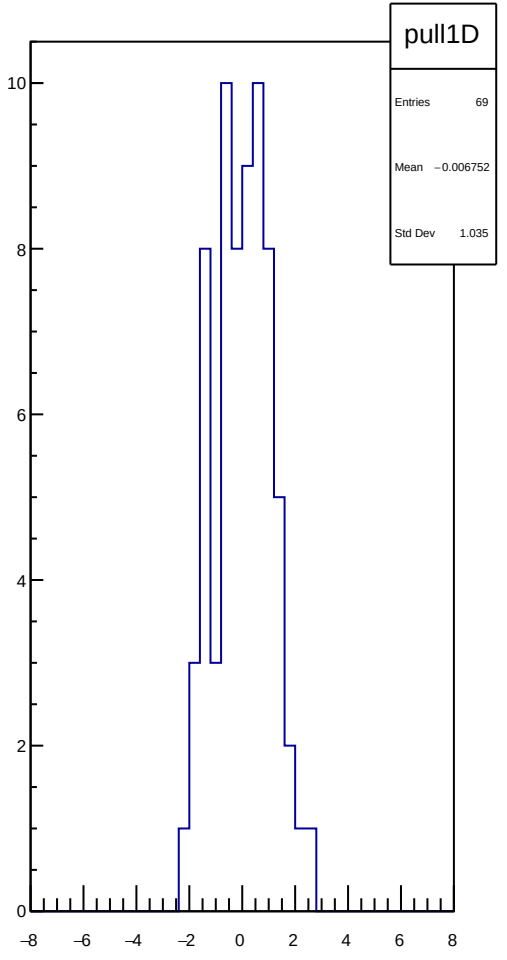

diff_bpm4aY_rms vs run
χ² / ndf 1.106e+04 / 68
p0 5475 ± 4.71
6500
6000
5500
5000
4500

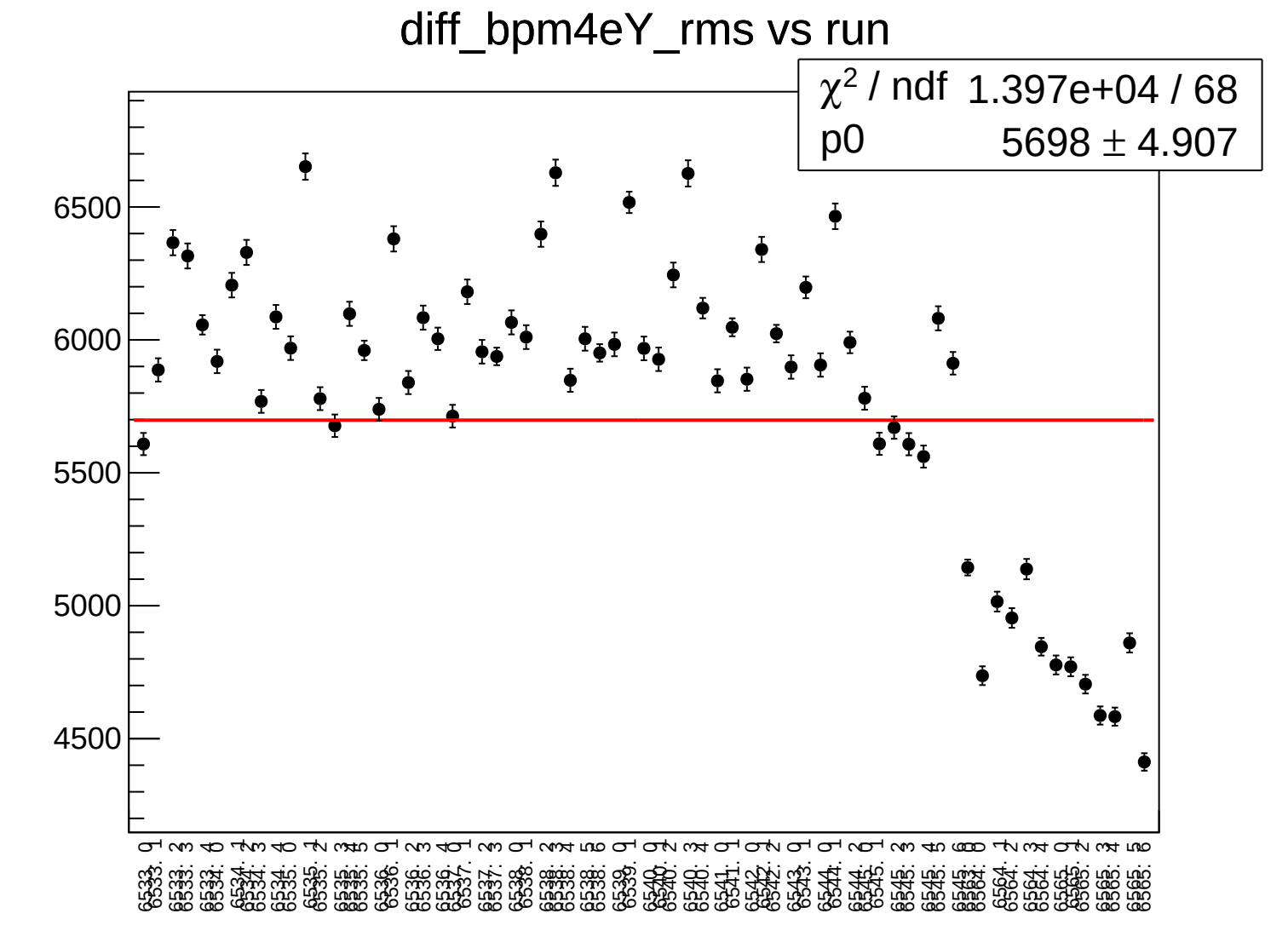

diff_bpm4eX_mean vs run
χ² / ndf 81.78 / 68
p0 −18.44 ± 12.89
pull
Entries 69
Mean 218.5
Std Dev 185.5

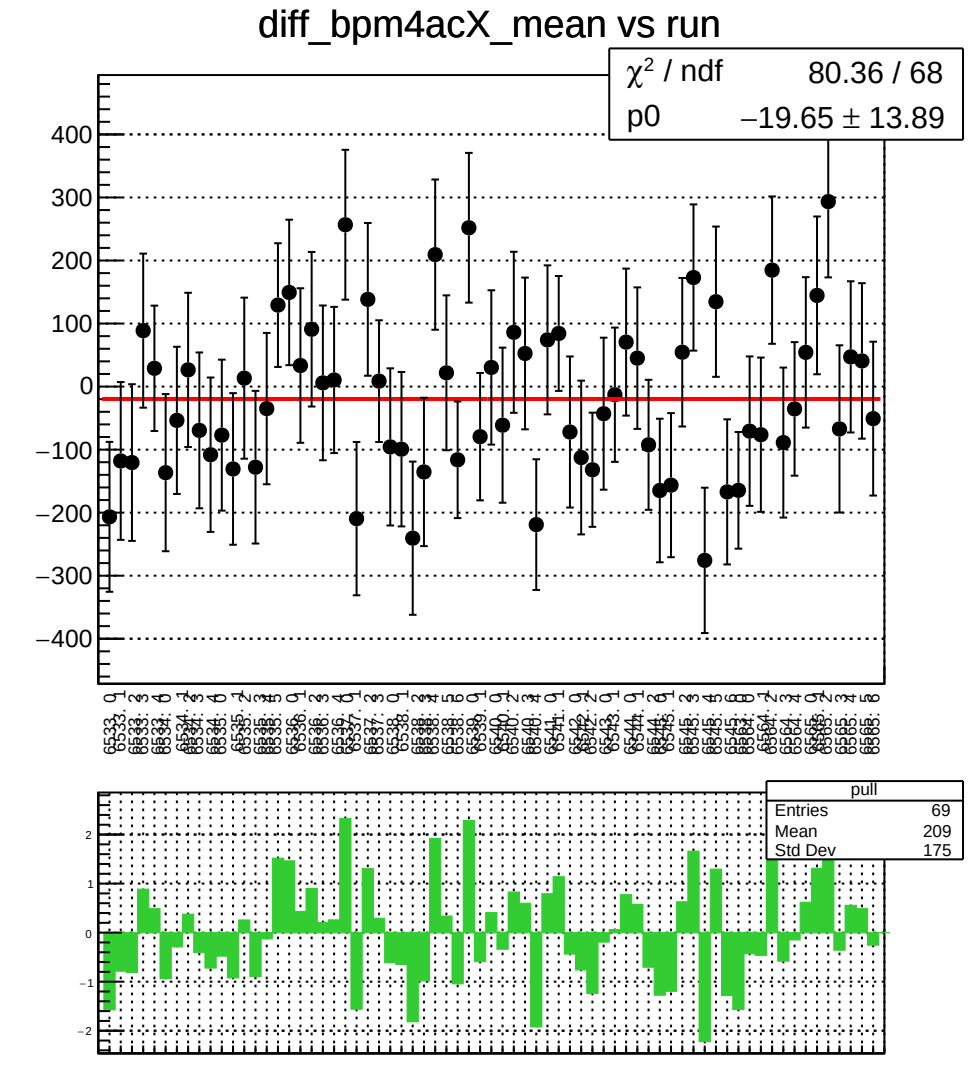

pull1D
Entries 69
Mean 0.01171
Std Dev 1.089

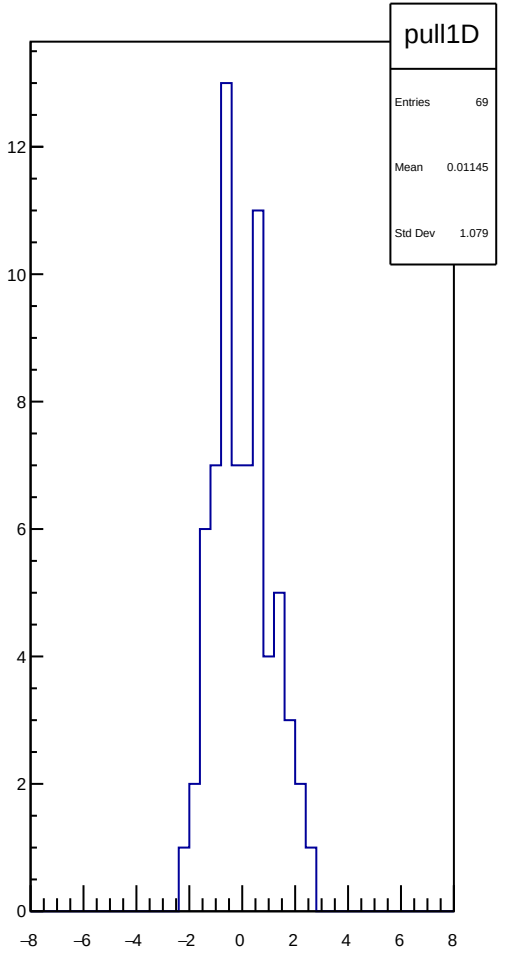

diff_bpm4eX_rms vs run
χ² / ndf 1248 / 68
p0 1.064e+04 ± 9.118
12000
11500
11000
10500
10000

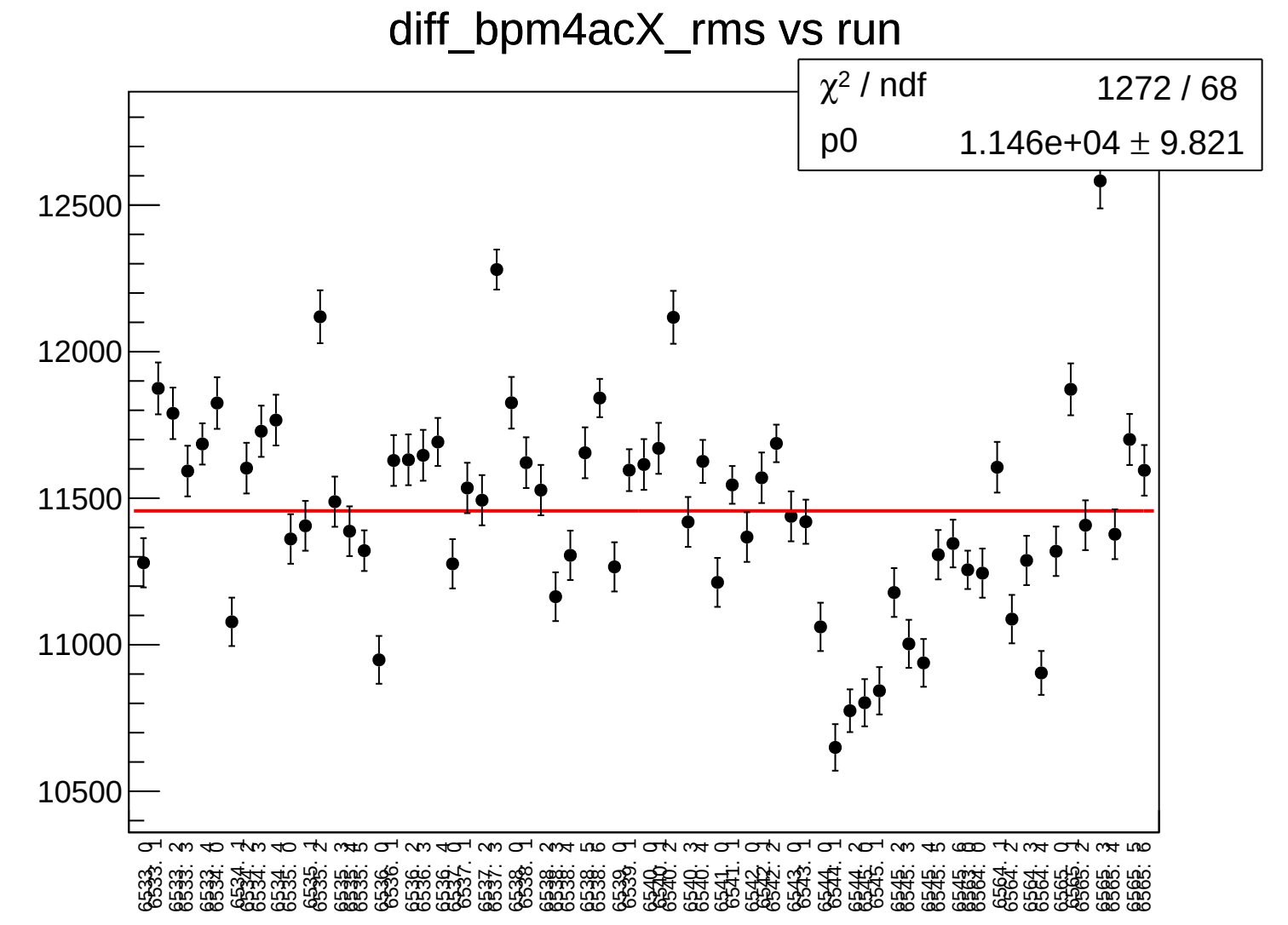

diff_bpm4eY_mean vs run
χ² / ndf 73.98 / 68
p0 9.018 ± 6.94
pull
Entries 69
Mean 6.988
Std Dev 89.14

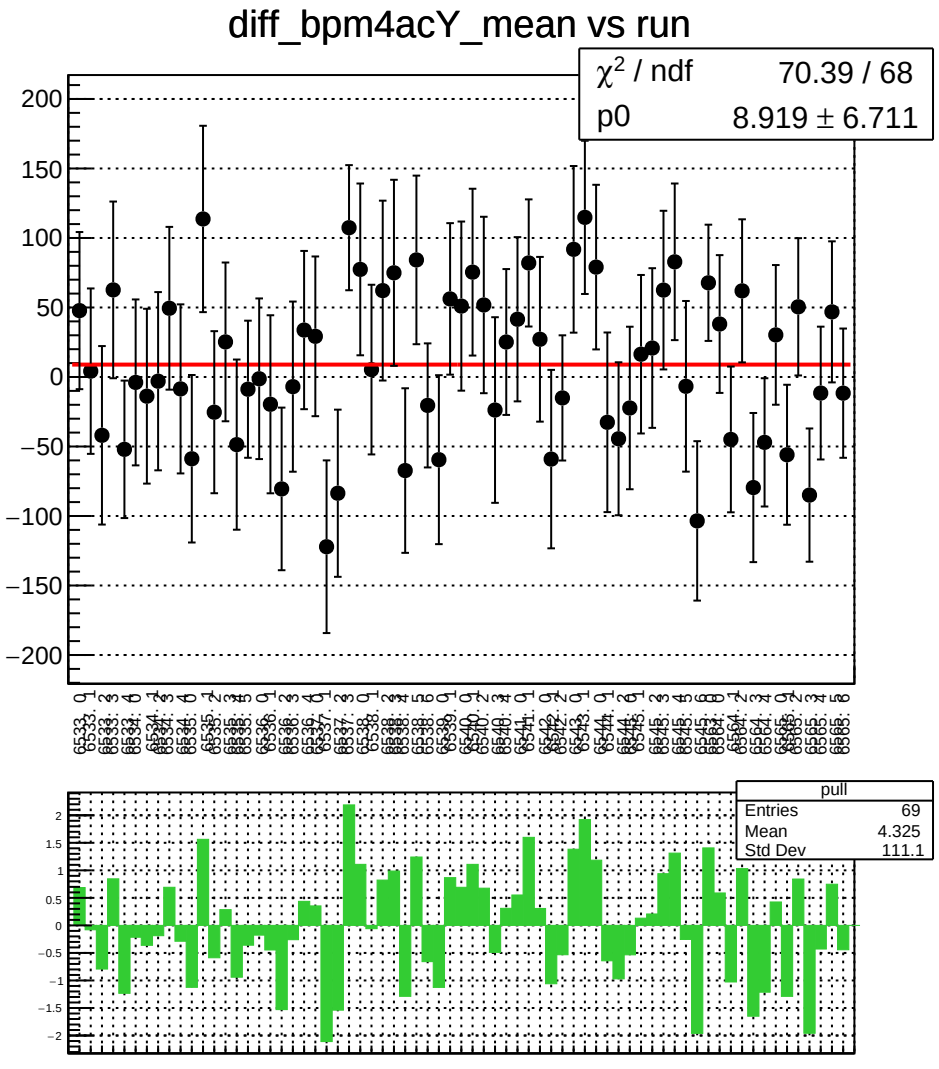

pull1D
Entries 69
Mean −0.006752
Std Dev 1.035

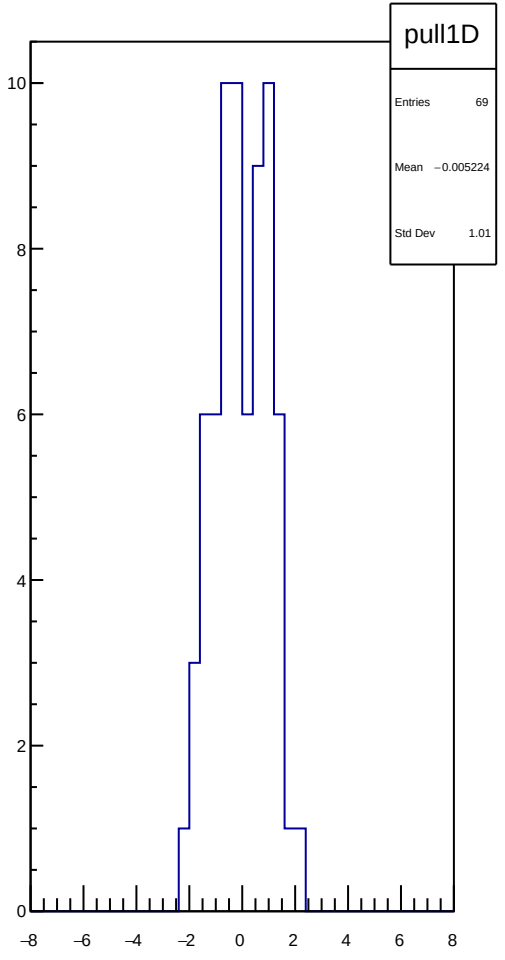

diff_bpm4eY_rms vs run
χ² / ndf 1.397e+04 / 68
p0 5698 ± 4.907
6500
6000
5500
5000
4500

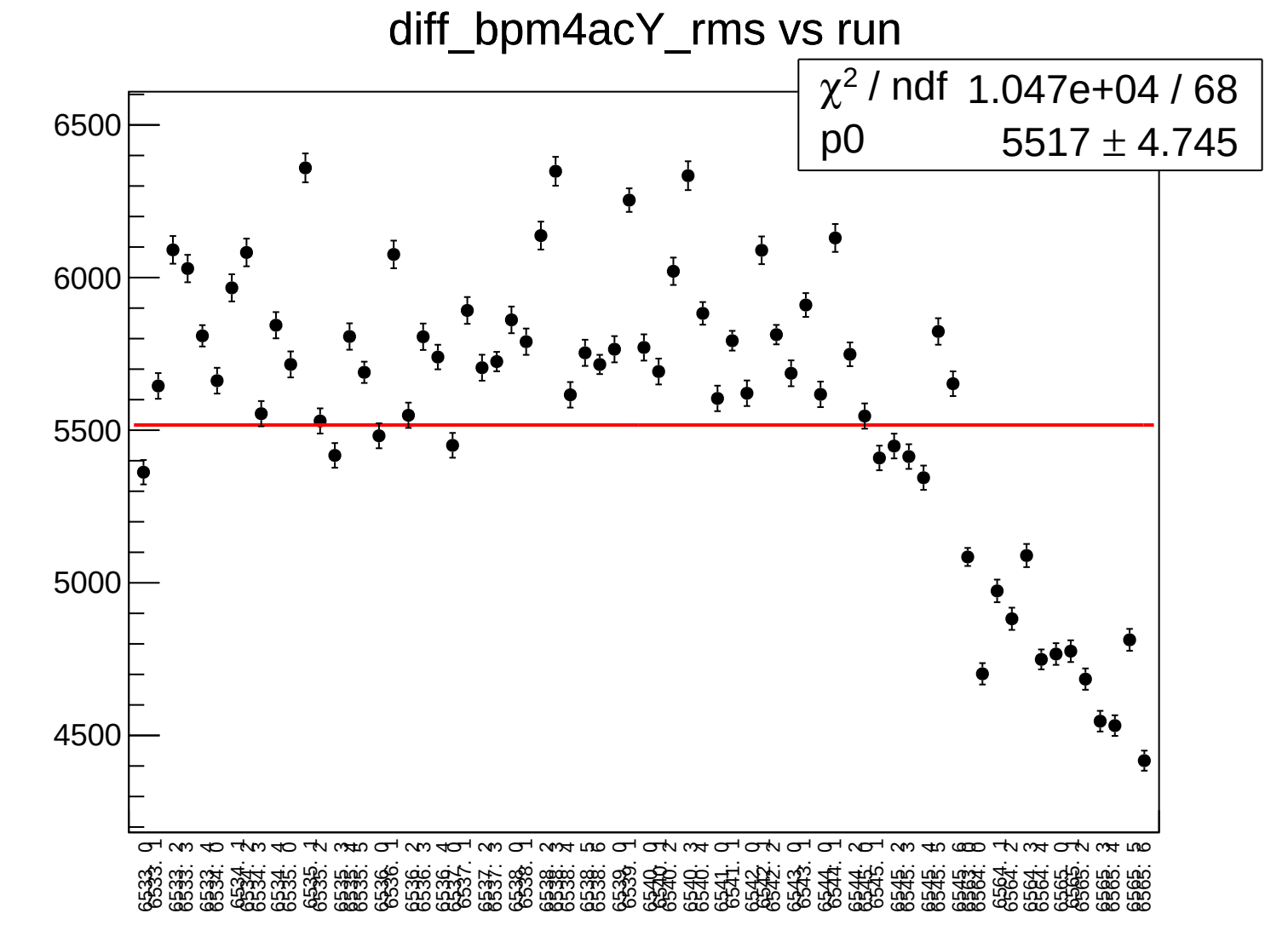

diff_bpm4acX_mean vs run
χ² / ndf 80.36 / 68
p0 −19.65 ± 13.89
pull
Entries 69
Mean 209
Std Dev 175

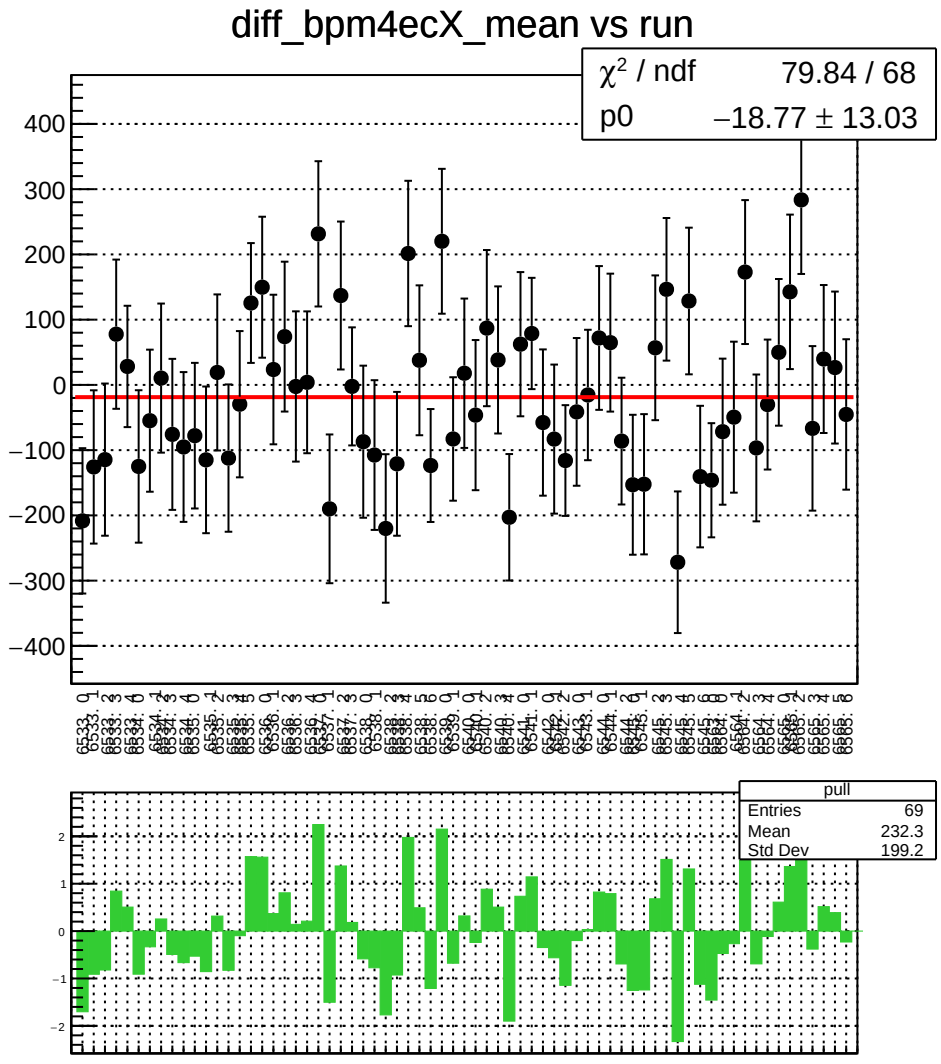

pull1D
Entries 69
Mean 0.01145
Std Dev 1.079

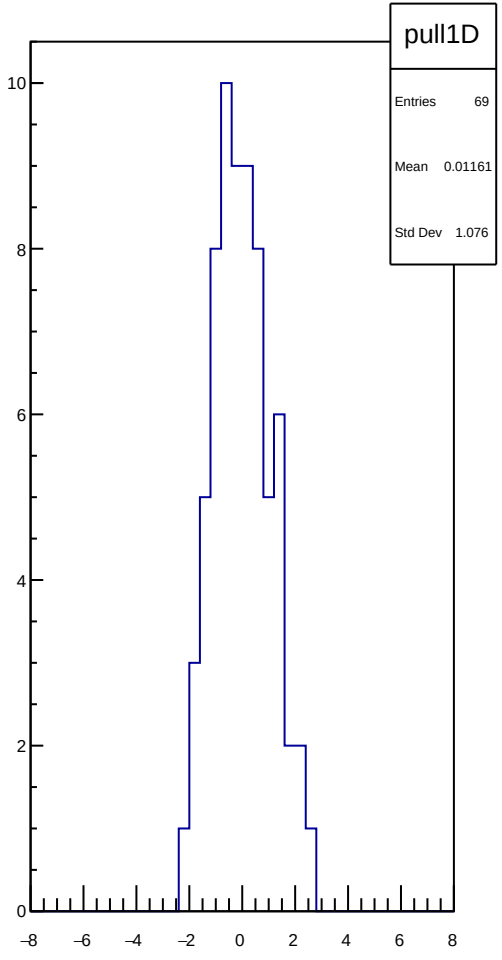

diff_bpm4acX_rms vs run
χ² / ndf 1272 / 68
p0 1.146e+04 ± 9.821
12500
12000
11500
11000
10500

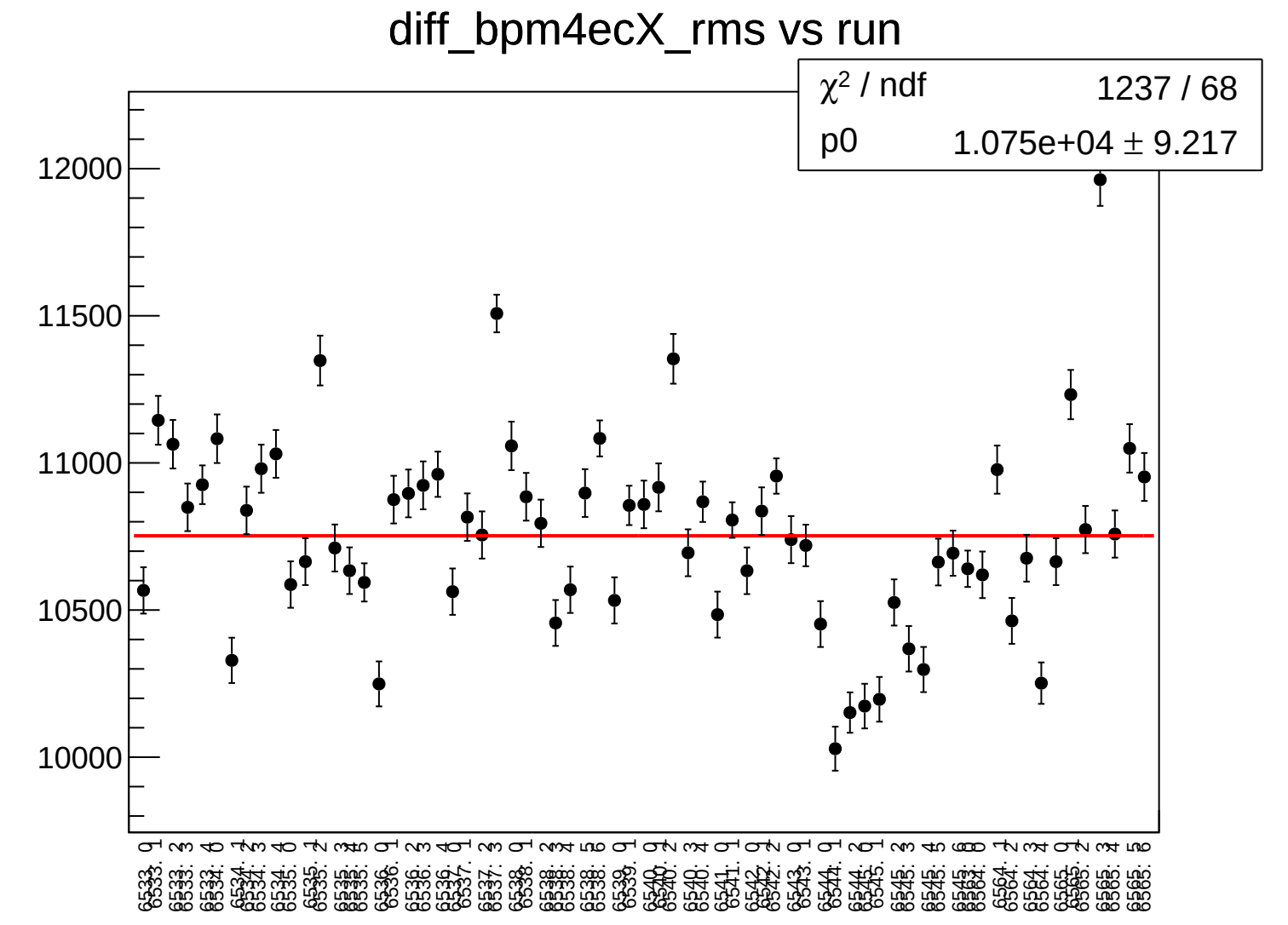

diff_bpm4acY_mean vs run
χ² / ndf 70.39 / 68
p0 8.919 ± 6.711
pull
Entries 69
Mean 4.325
Std Dev 111.1

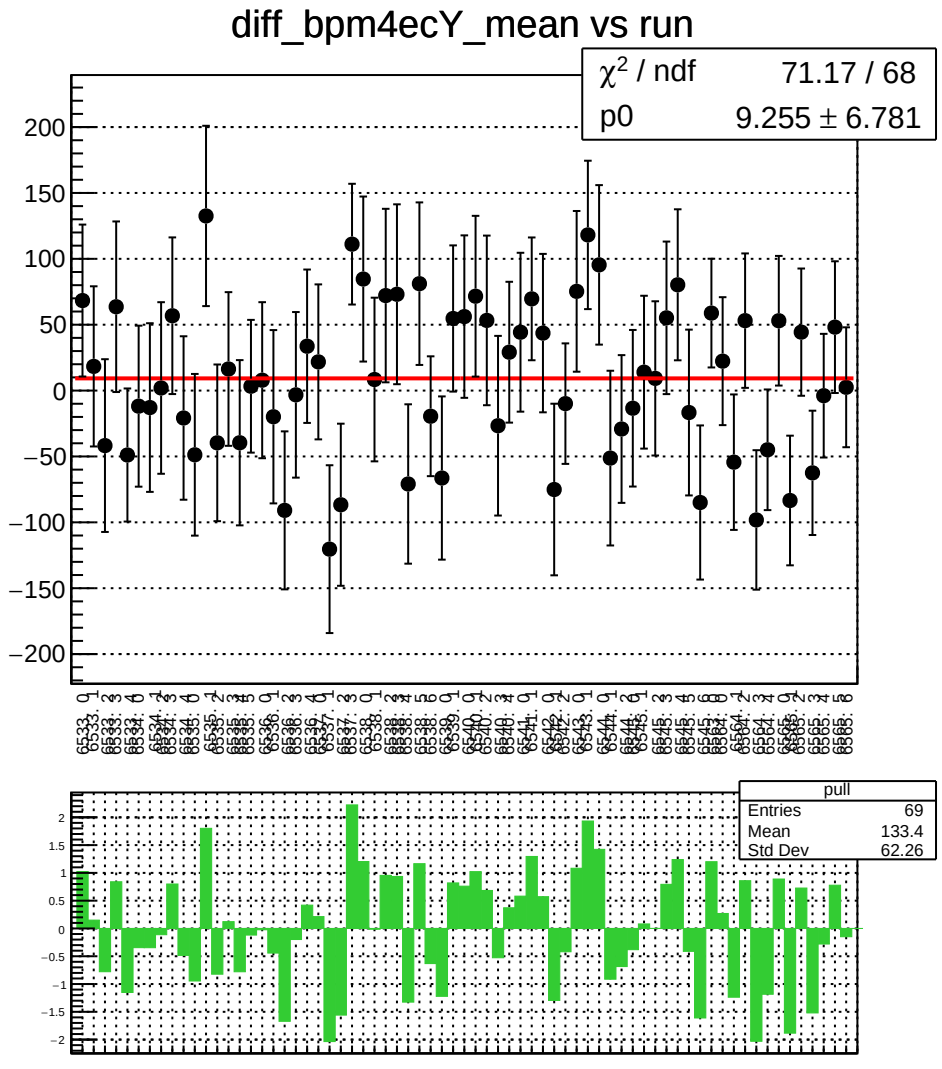

pull1D
Entries 69
Mean −0.005224
Std Dev 1.01

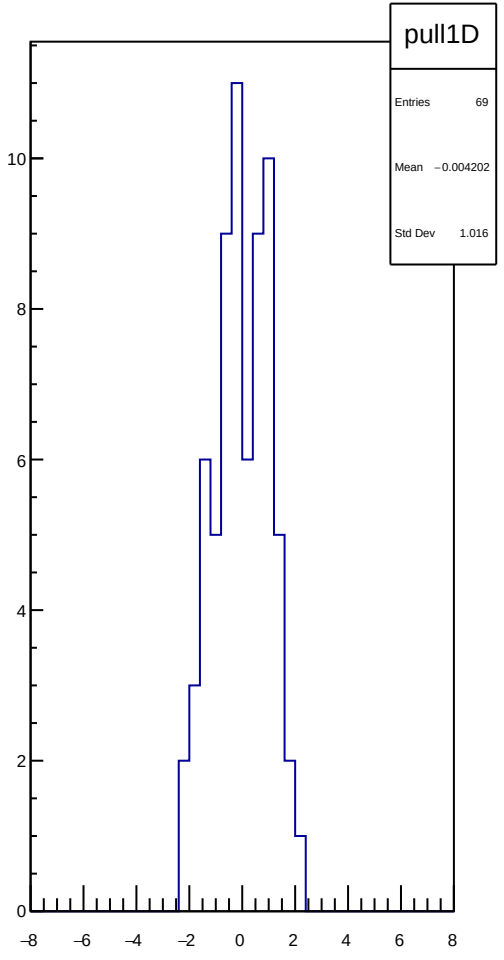

diff_bpm4acY_rms vs run
χ² / ndf 1.047e+04 / 68
p0 5517 ± 4.745
6500
6000
5500
5000
4500

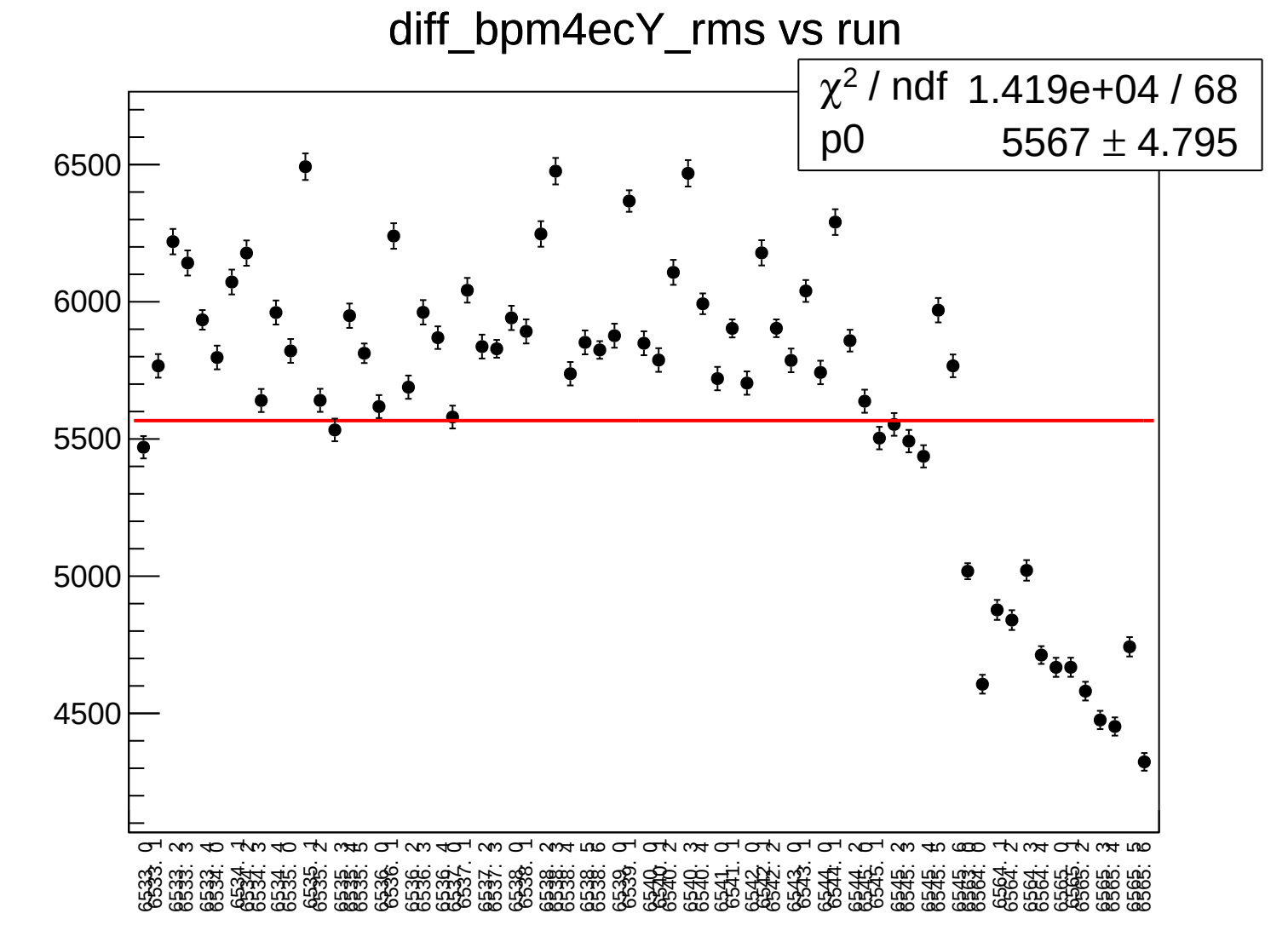

diff_bpm4ecX_mean vs run
χ² / ndf 79.84 / 68
p0 −18.77 ± 13.03
pull
Entries 69
Mean 232.3
Std Dev 199.2

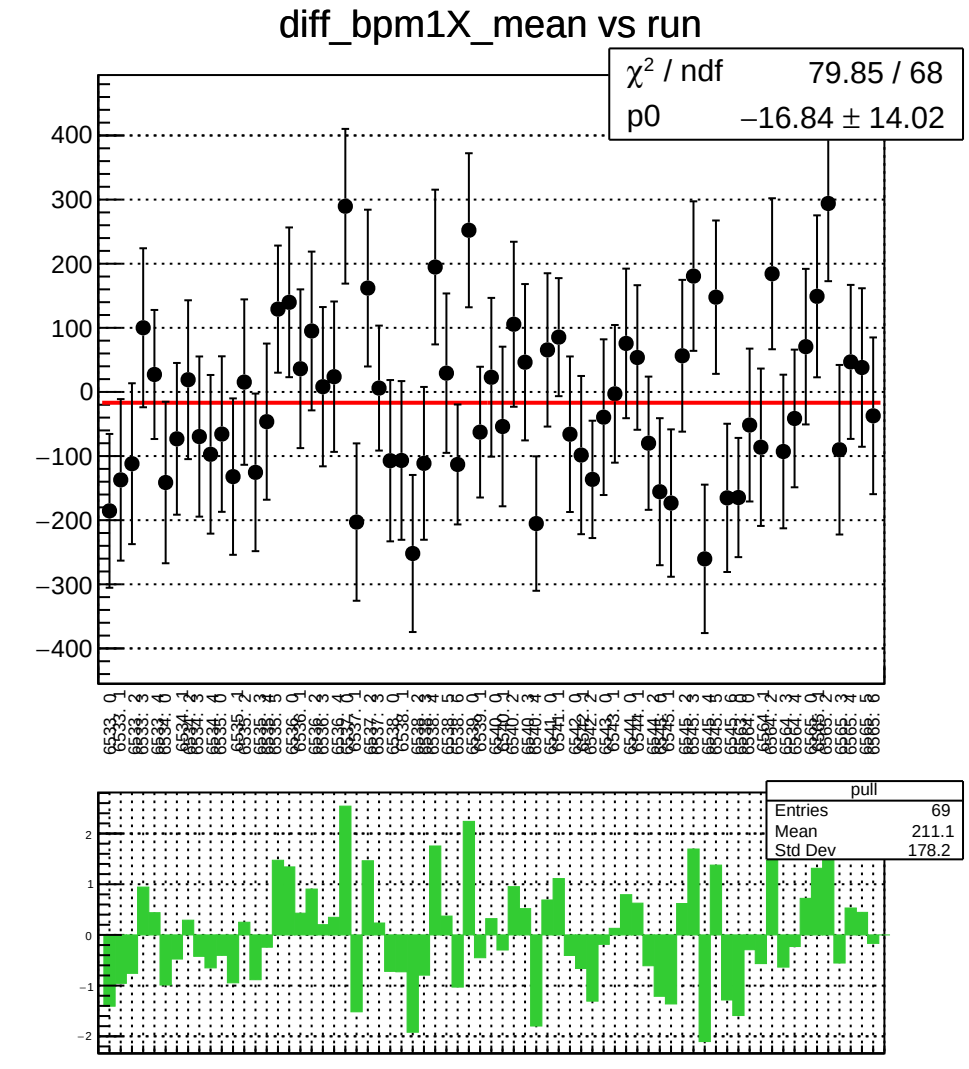

pull1D
Entries 69
Mean 0.01161
Std Dev 1.076

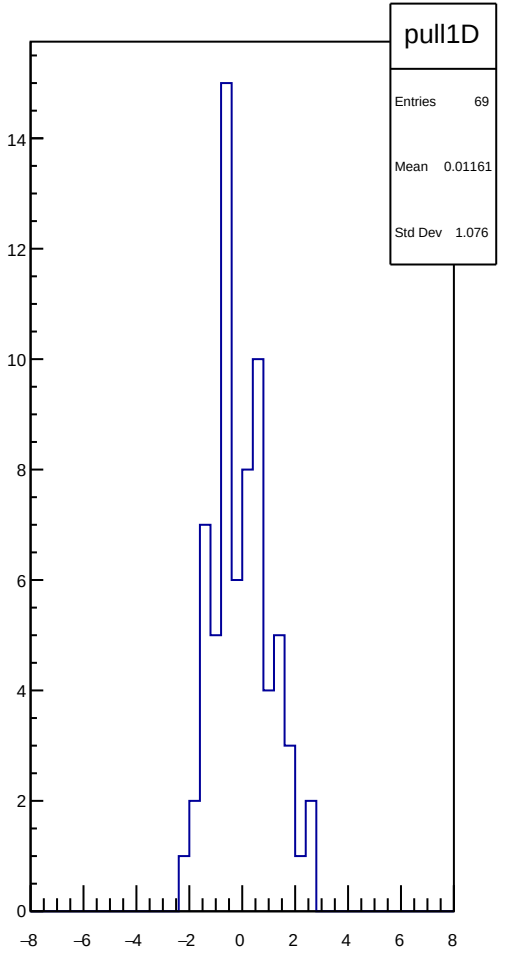

diff_bpm4ecX_rms vs run
χ² / ndf 1237 / 68
p0 1.075e+04 ± 9.217
12000
11500
11000
10500
10000

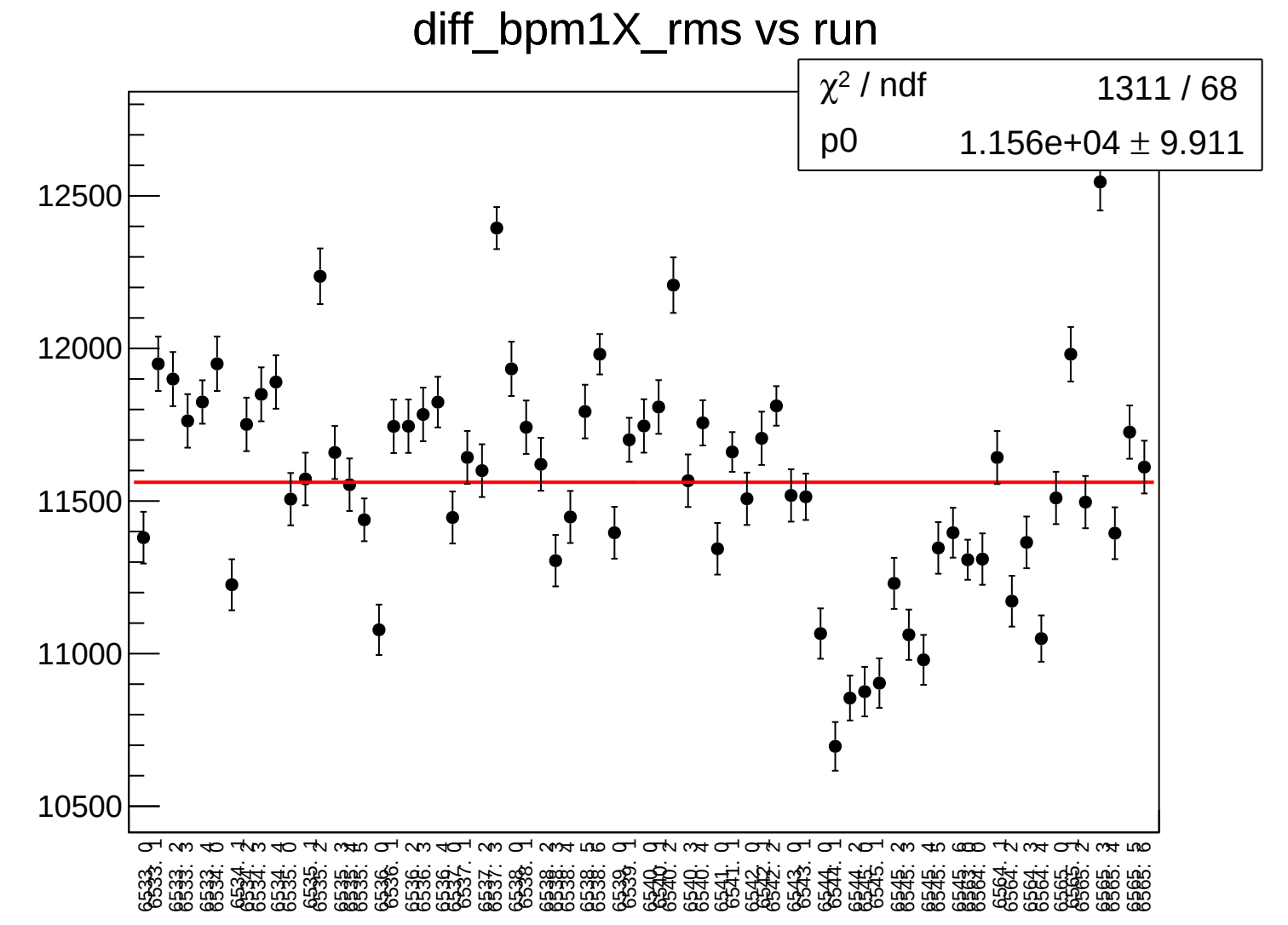

diff_bpm4ecY_mean vs run
$\chi^2$ / ndf 71.17 / 68
p0 9.255 ± 6.781
pull
Entries 69
Mean 133.4
Std Dev 62.26

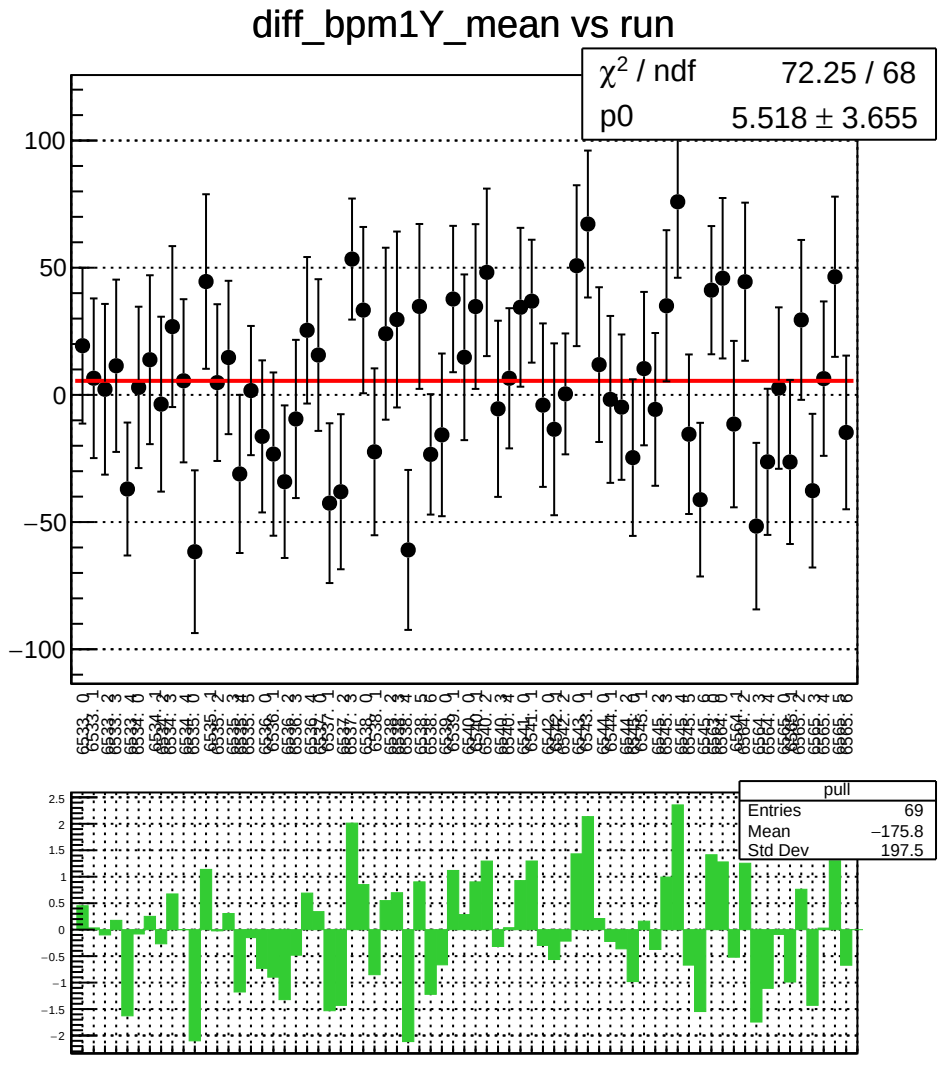

pull1D
Entries 69
Mean −0.004202
Std Dev 1.016

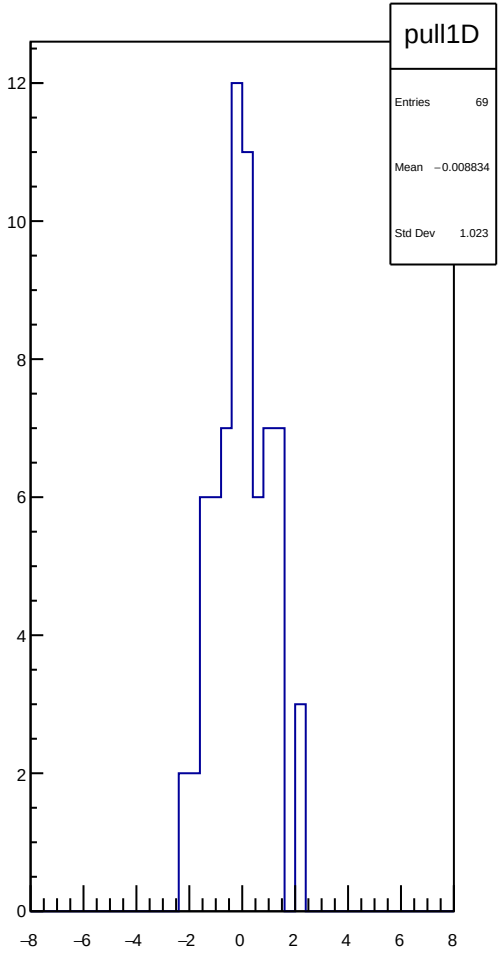

diff_bpm4ecY_rms vs run
χ² / ndf 1.419e+04 / 68
p0 5567 ± 4.795
6500
6000
5500
5000
4500

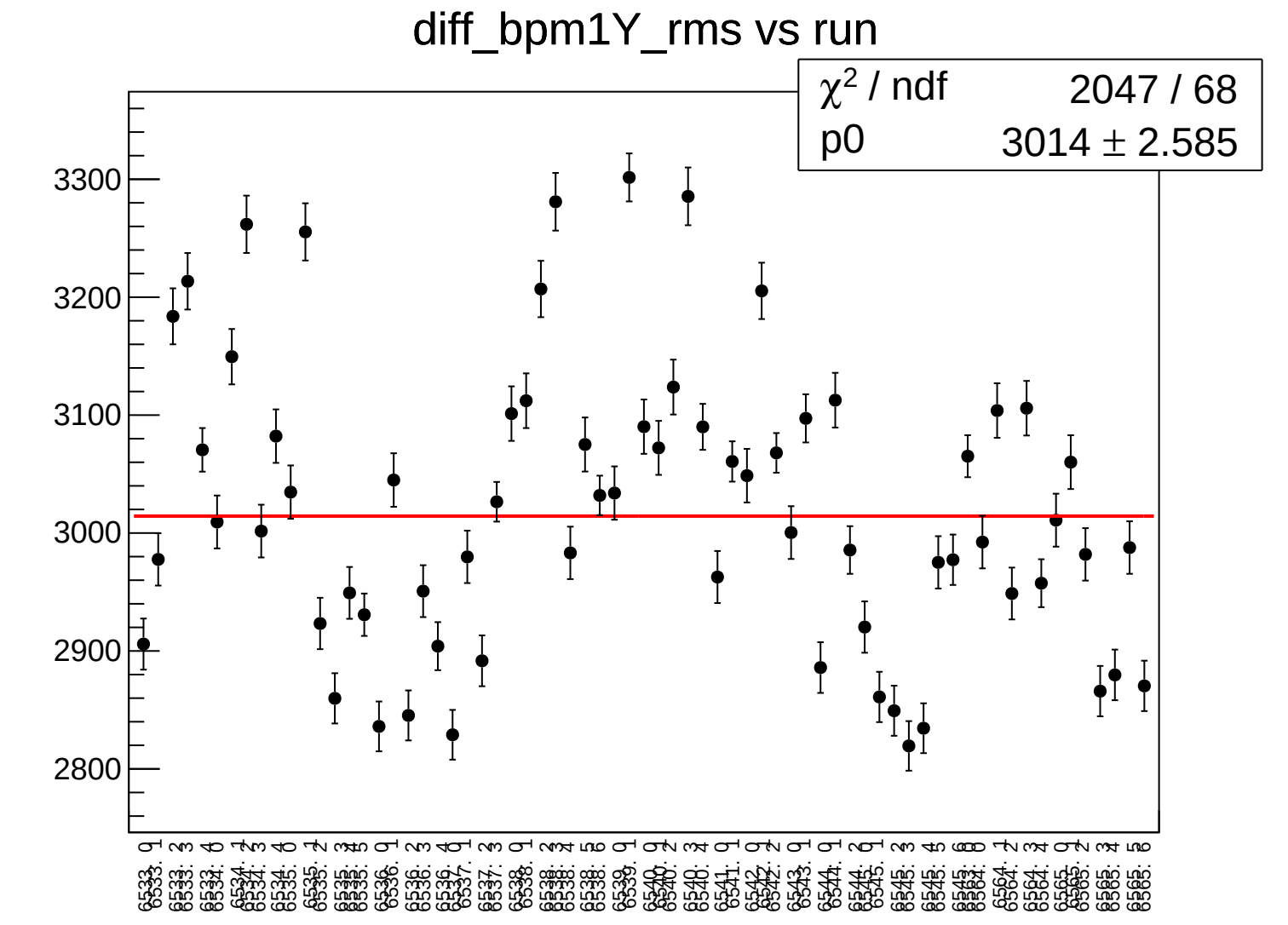

diff_bpm1X_mean vs run
χ² / ndf 79.85 / 68
p0 −16.84 ± 14.02
pull
Entries 69
Mean 211.1
Std Dev 178.2

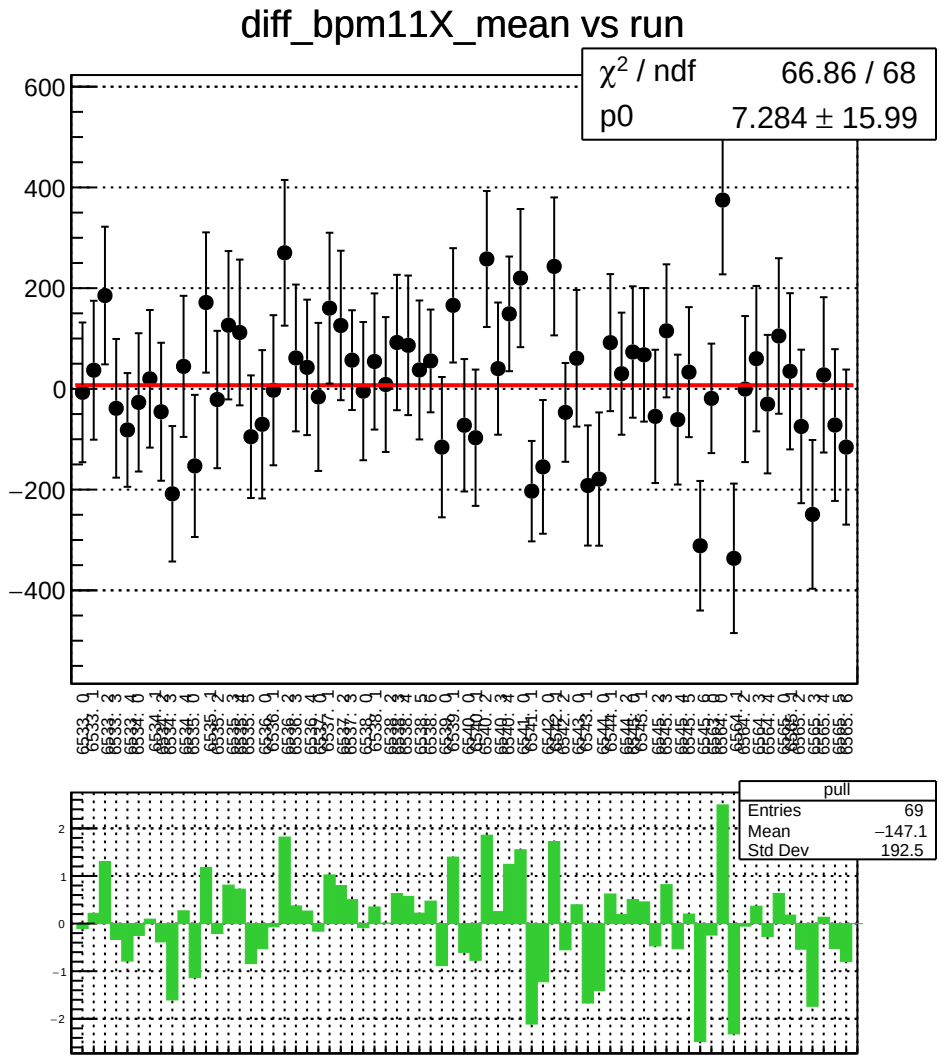

pull1D
Entries 69
Mean 0.01161
Std Dev 1.076

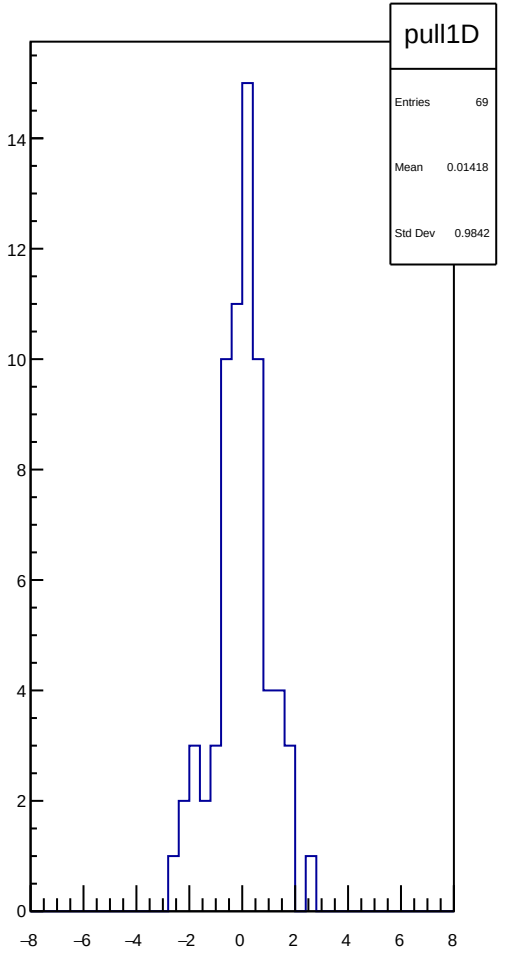

diff_bpm1X_rms vs run
χ² / ndf 1311 / 68
p0 1.156e+04 ± 9.911
12500
12000
11500
11000
10500

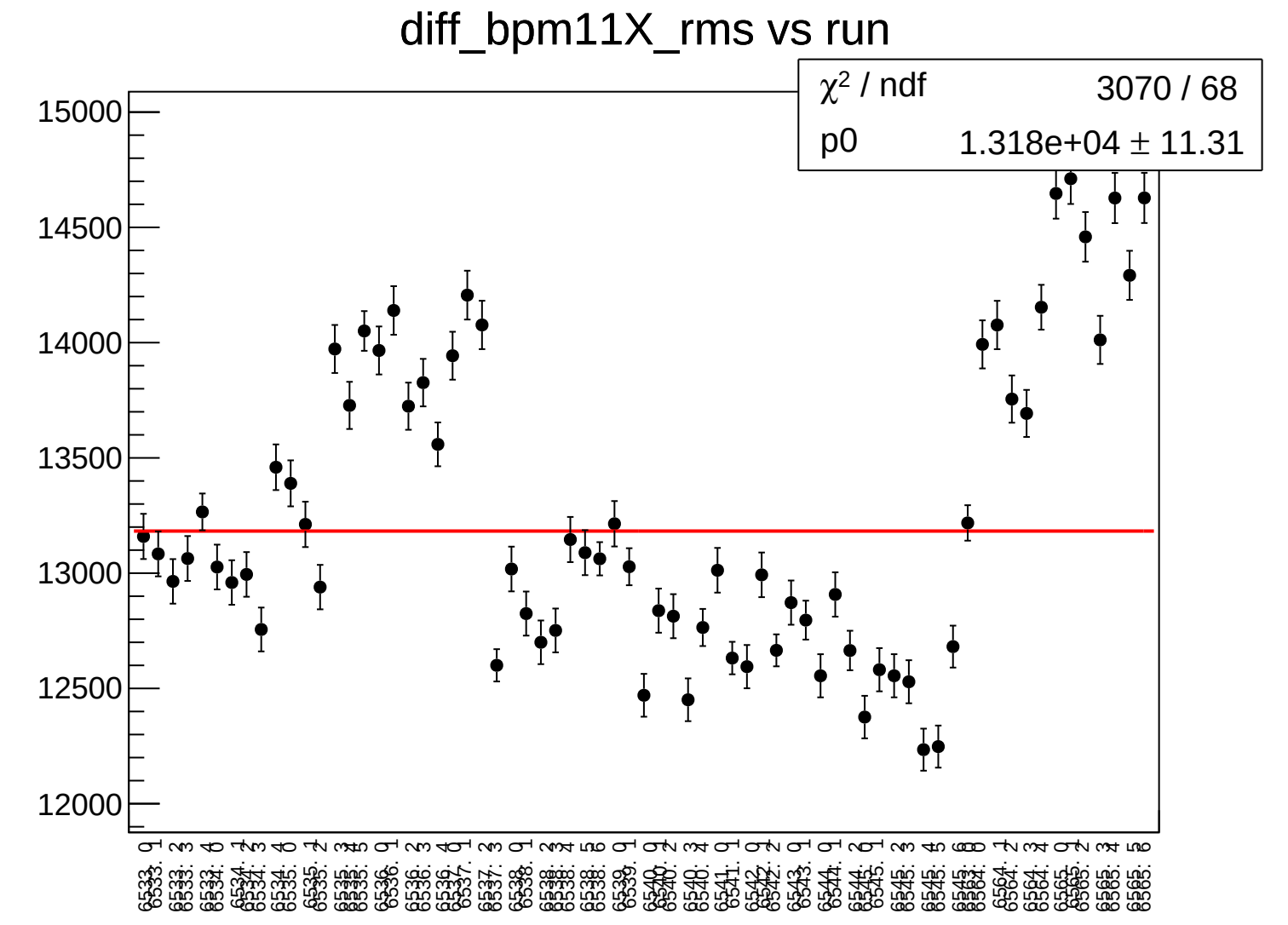

diff_bpm1Y_mean vs run
$\chi^2$ / ndf 72.25 / 68
p0 5.518 ± 3.655
100
50
0
−50
−100
pull
Entries 69
Mean −175.8
Std Dev 197.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

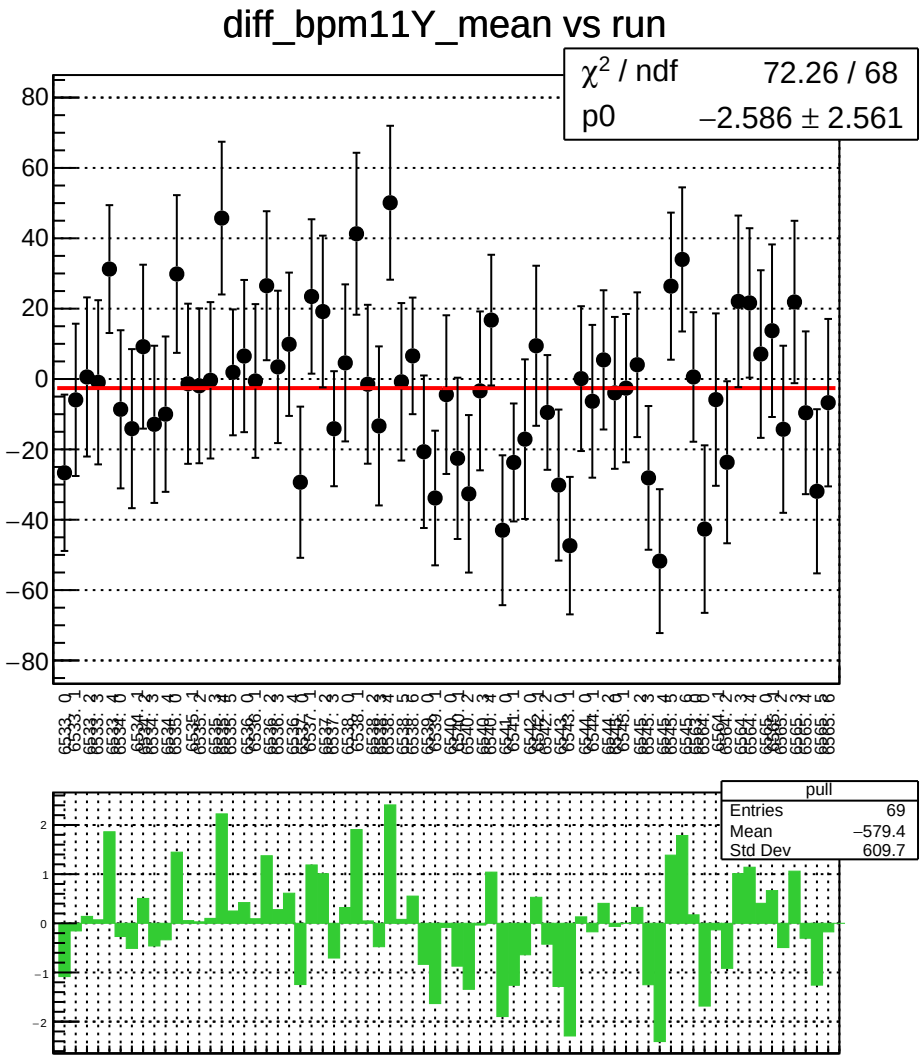

pull1D
Entries 69
Mean −0.008834
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

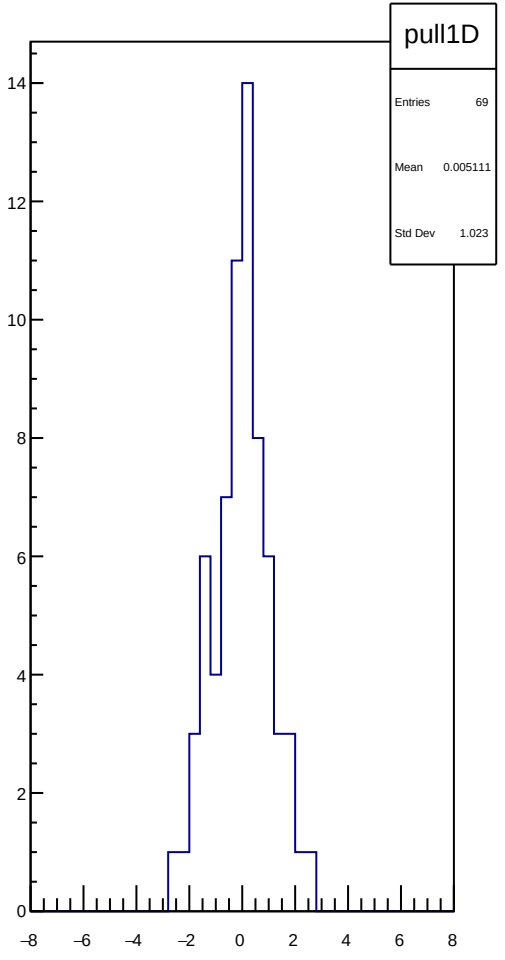

diff_bpm1Y_rms vs run
χ² / ndf 2047 / 68
p0 3014 ± 2.585
3300
3200
3100
3000
2900
2800

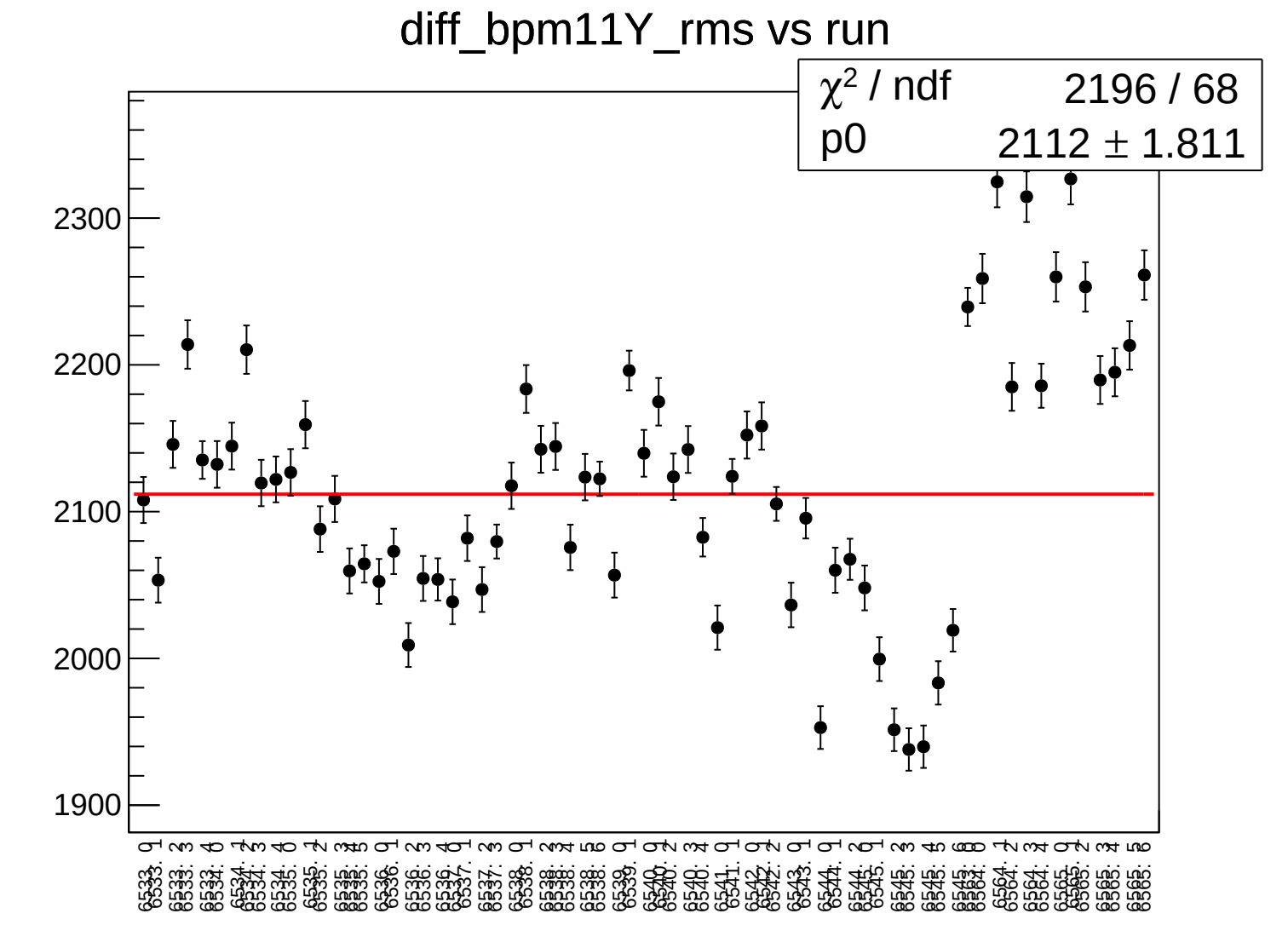

diff_bpm11X_mean vs run
$\chi^2$ / ndf 66.86 / 68
p0 7.284 ± 15.99
pull
Entries 69
Mean −147.1
Std Dev 192.5

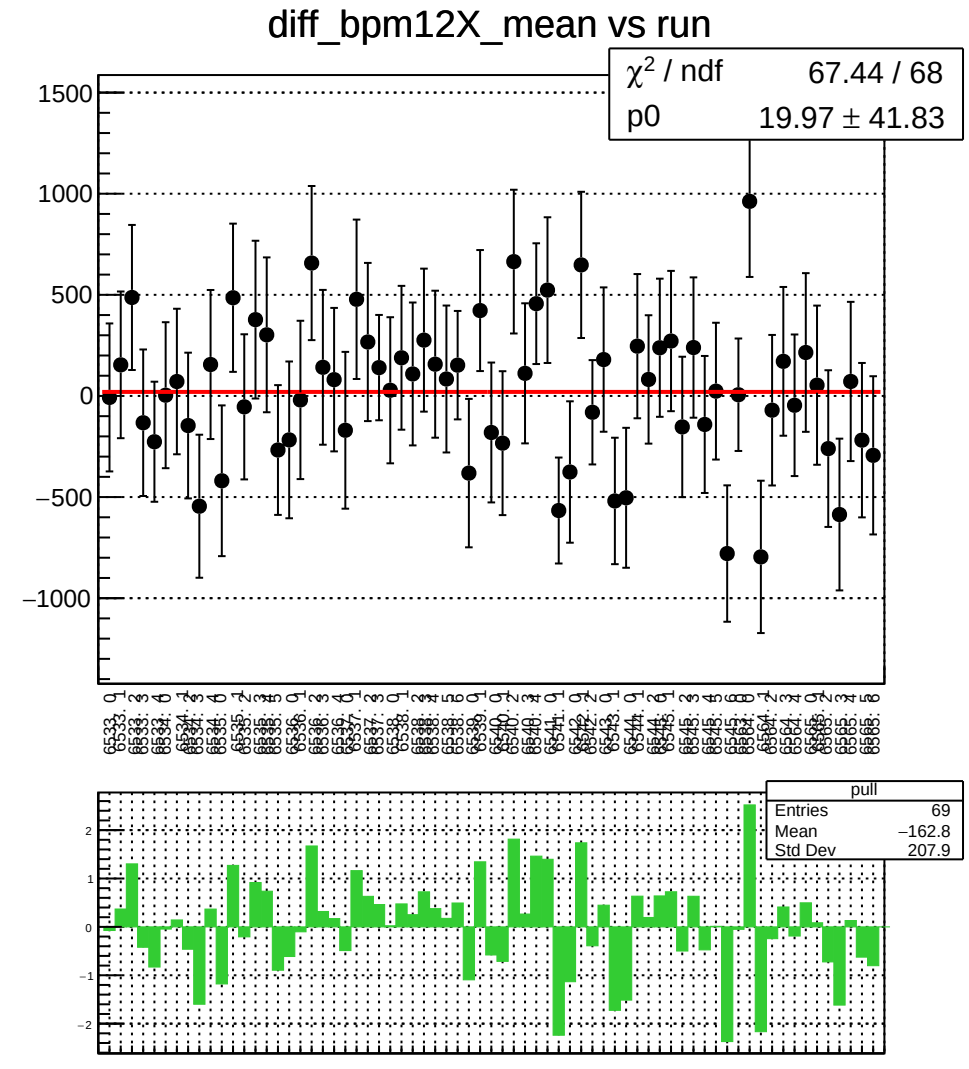

pull1D
Entries 69
Mean 0.01418
Std Dev 0.9842

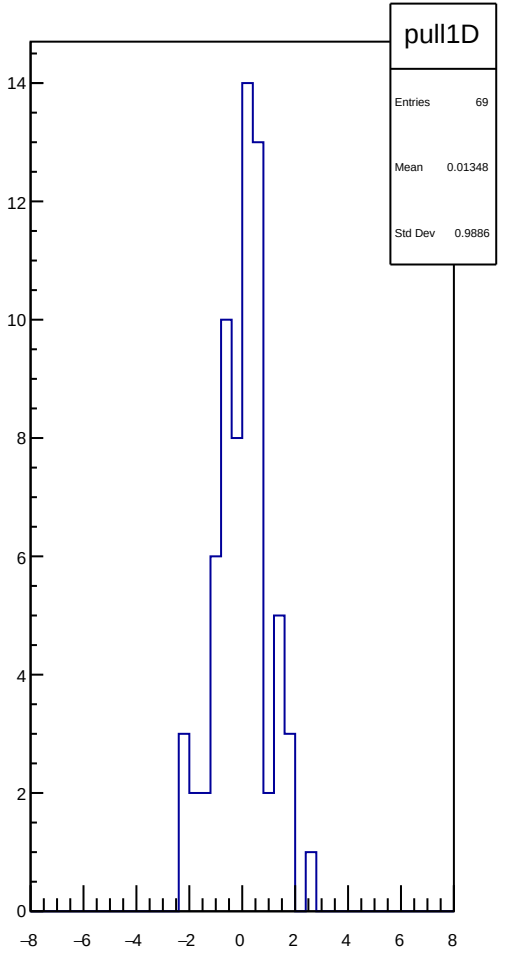

diff_bpm11X_rms vs run
χ² / ndf 3070 / 68
p0 1.318e+04 ± 11.31
15000
14500
14000
13500
13000
12500
12000

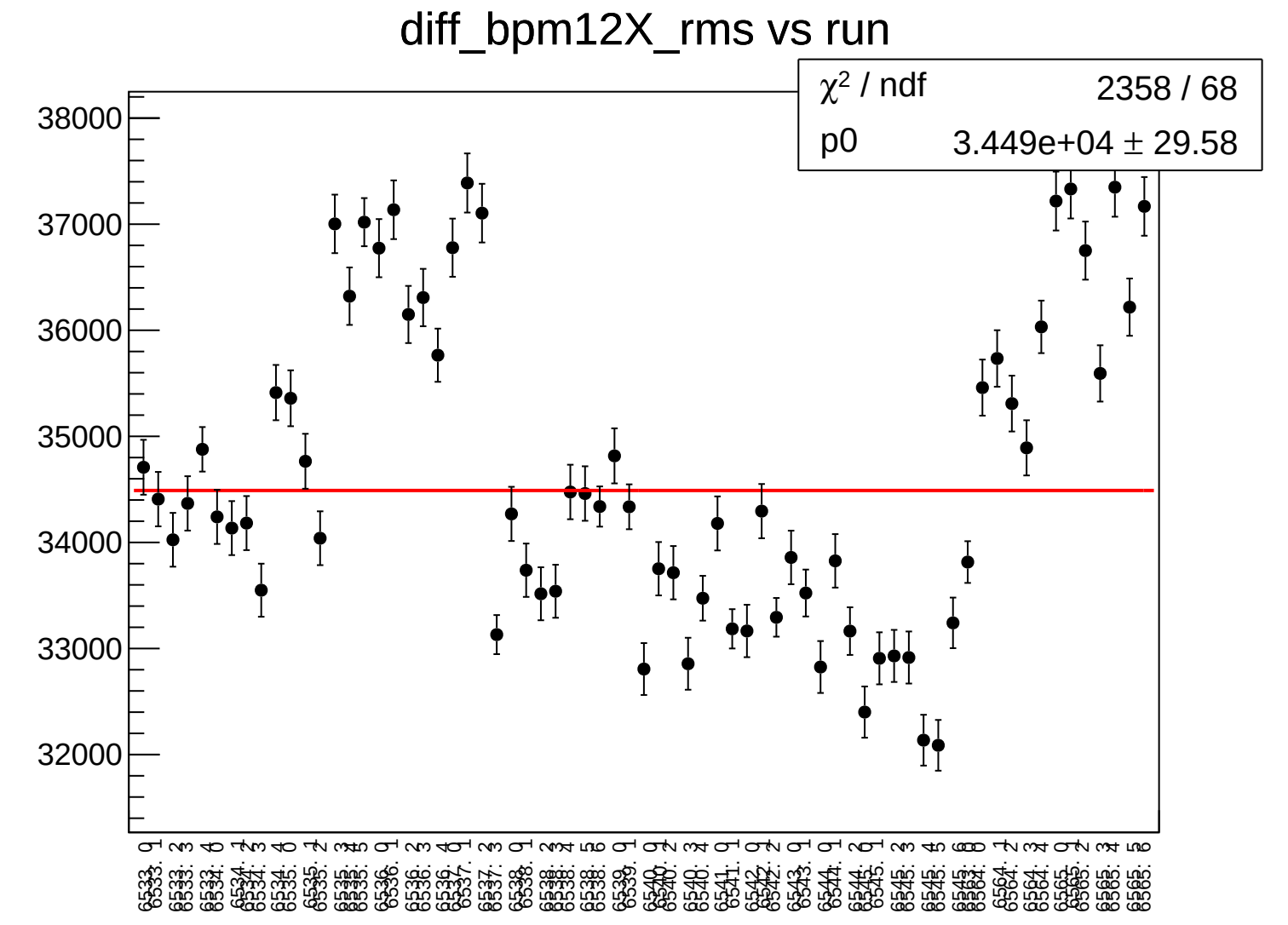

diff_bpm11Y_mean vs run
χ² / ndf 72.26 / 68
p0 −2.586 ± 2.561
pull
Entries 69
Mean −579.4
Std Dev 609.7

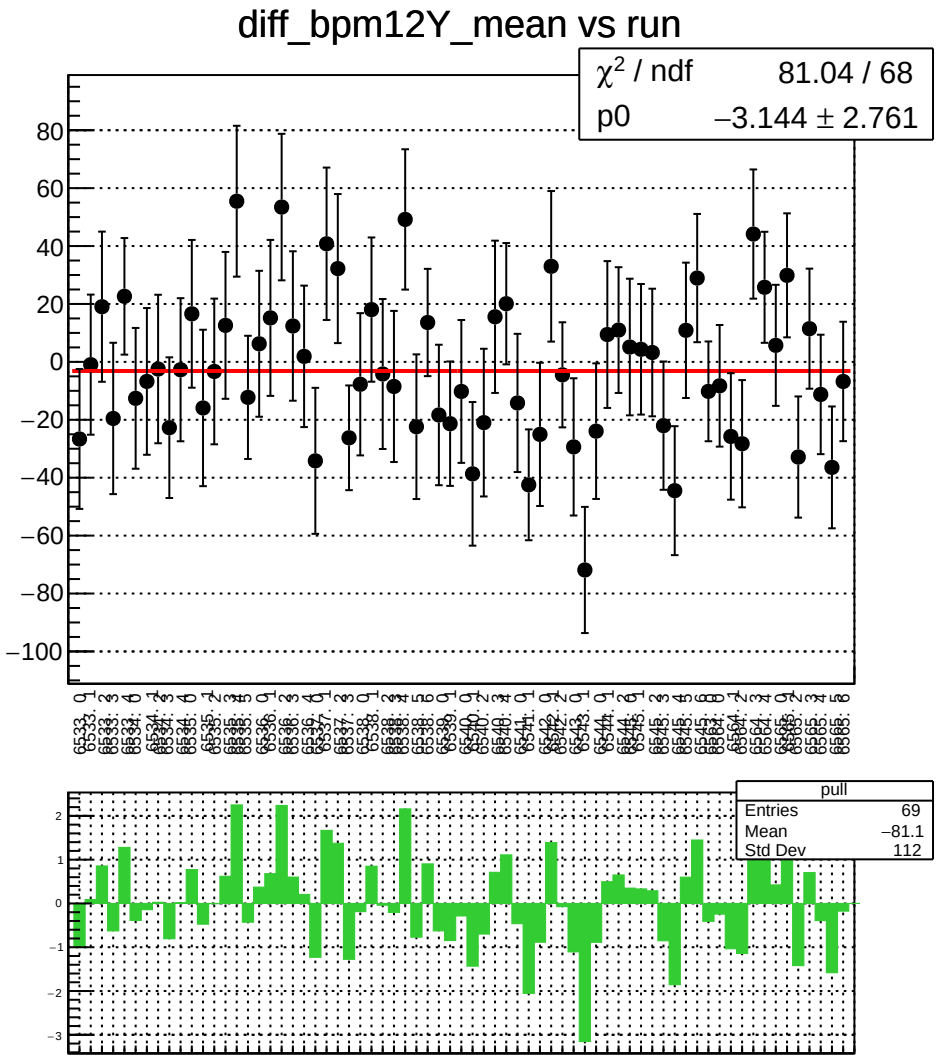

pull1D
Entries 69
Mean 0.005111
Std Dev 1.023

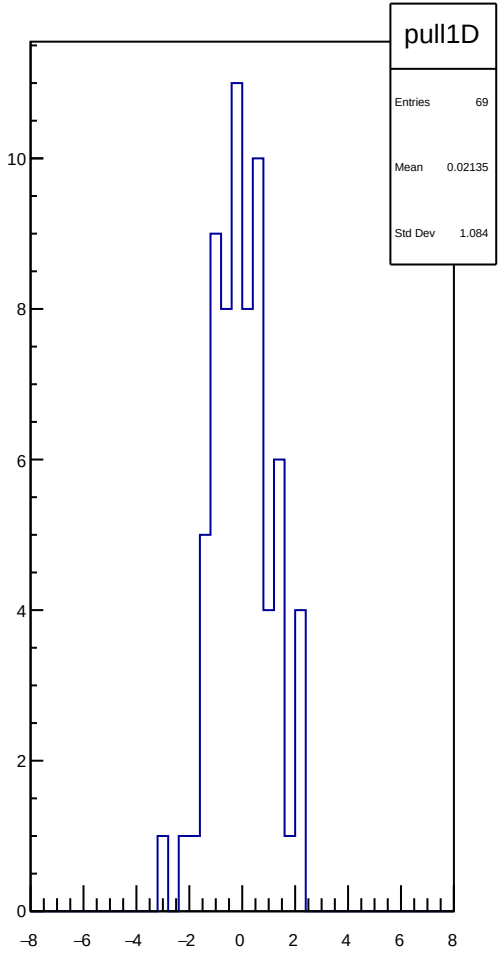

diff_bpm11Y_rms vs run
χ² / ndf 2196 / 68
p0 2112 ± 1.811
2300
2200
2100
2000
1900

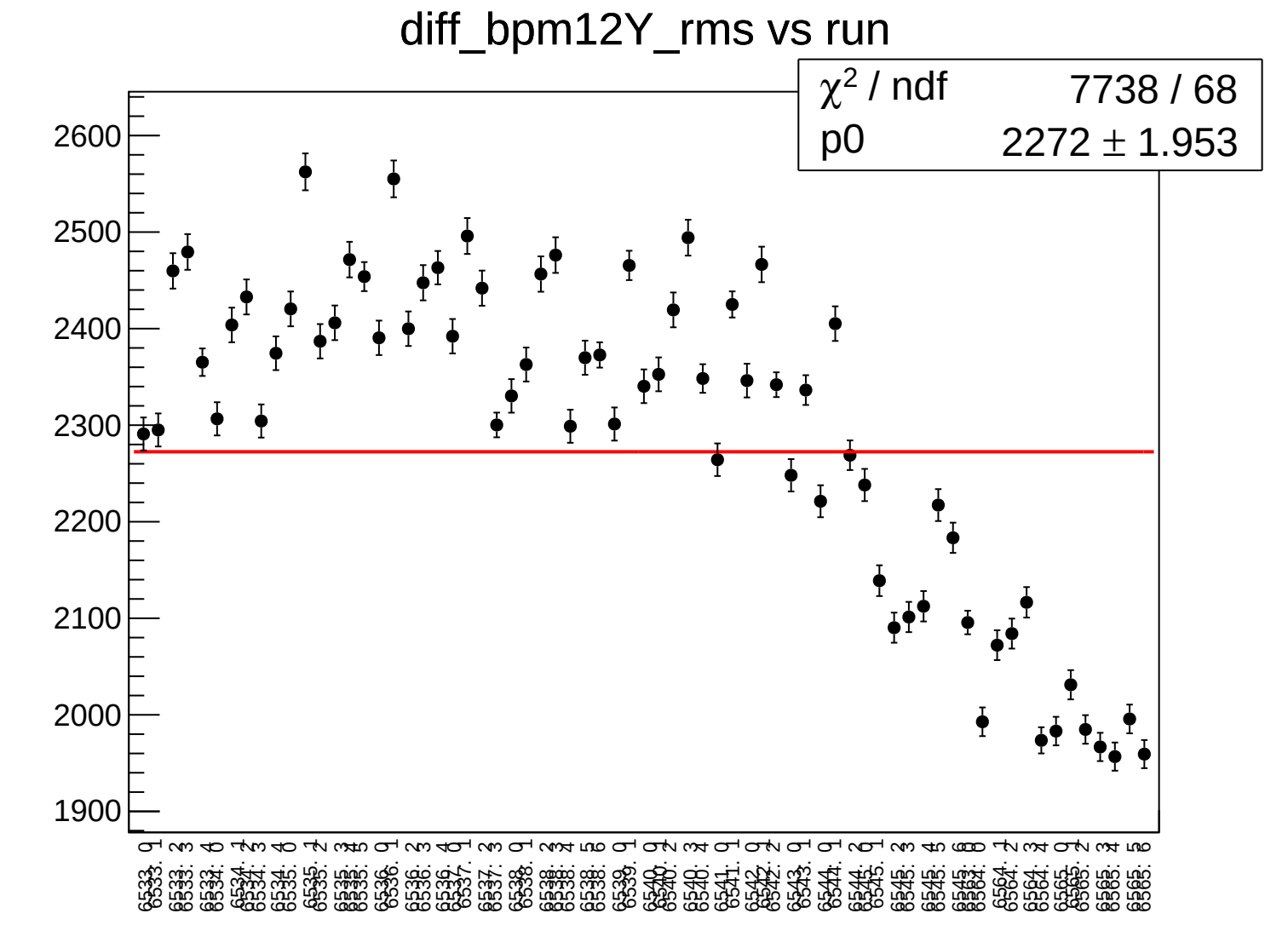

diff_bpm12X_mean vs run
χ² / ndf 67.44 / 68
p0 19.97 ± 41.83
1500
1000
500
0
−500
−1000
pull
Entries 69
Mean −162.8
Std Dev 207.9
2
1
0
−1
−2

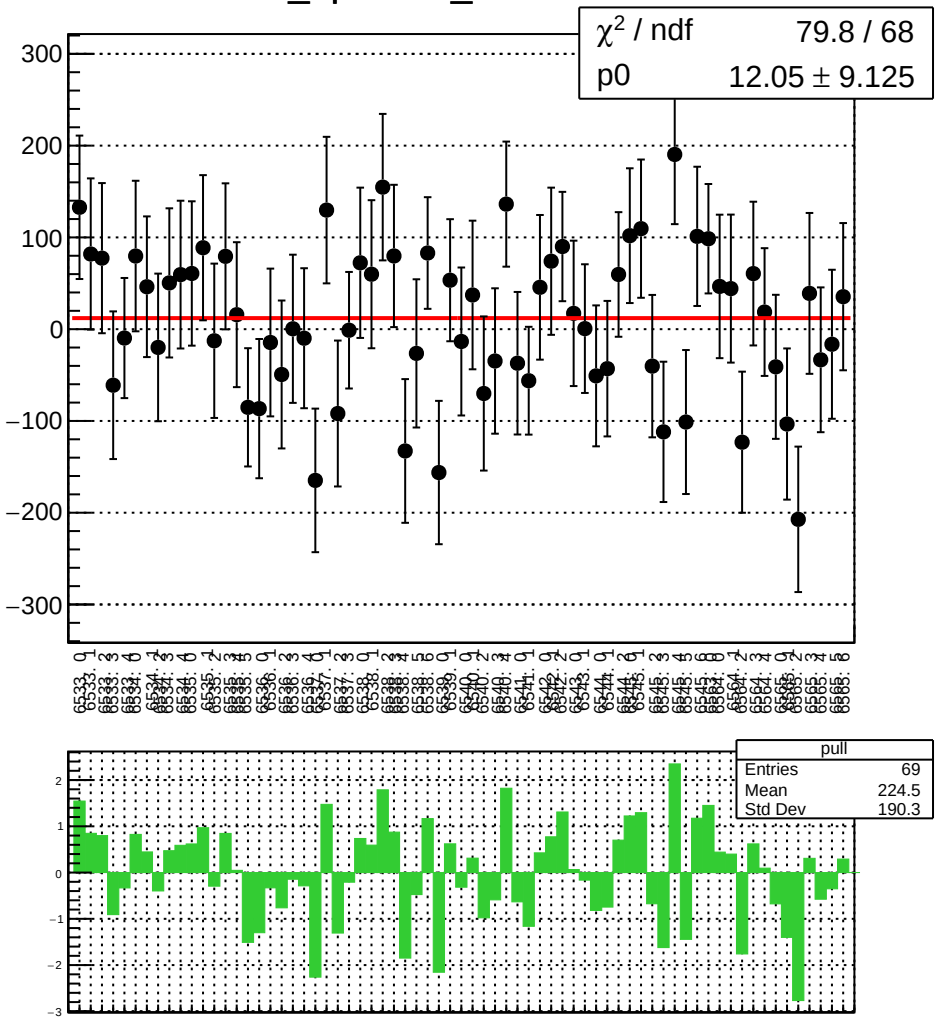

pull1D
Entries 69
Mean 0.01348
Std Dev 0.9886
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

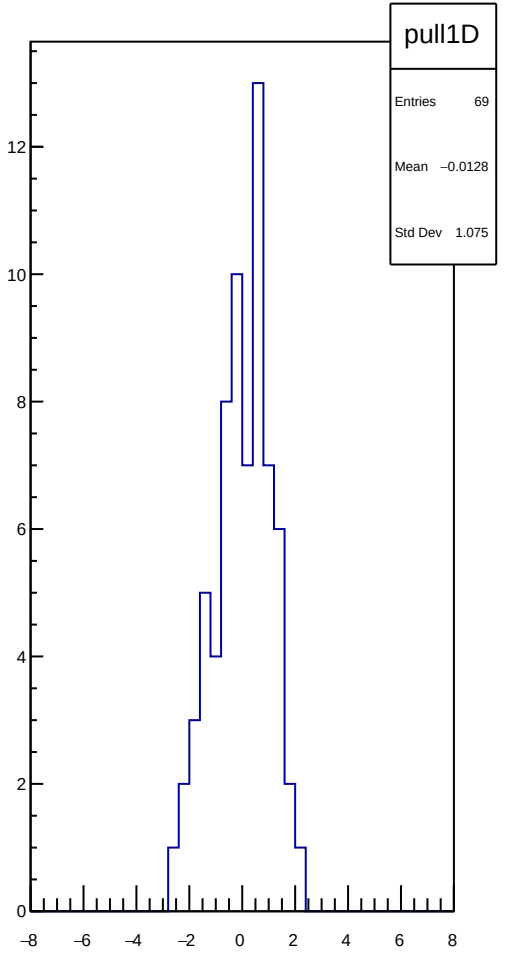

diff_bpm12X_rms vs run
χ² / ndf 2358 / 68
p0 3.449e+04 ± 29.58
38000
37000
36000
35000
34000
33000
32000

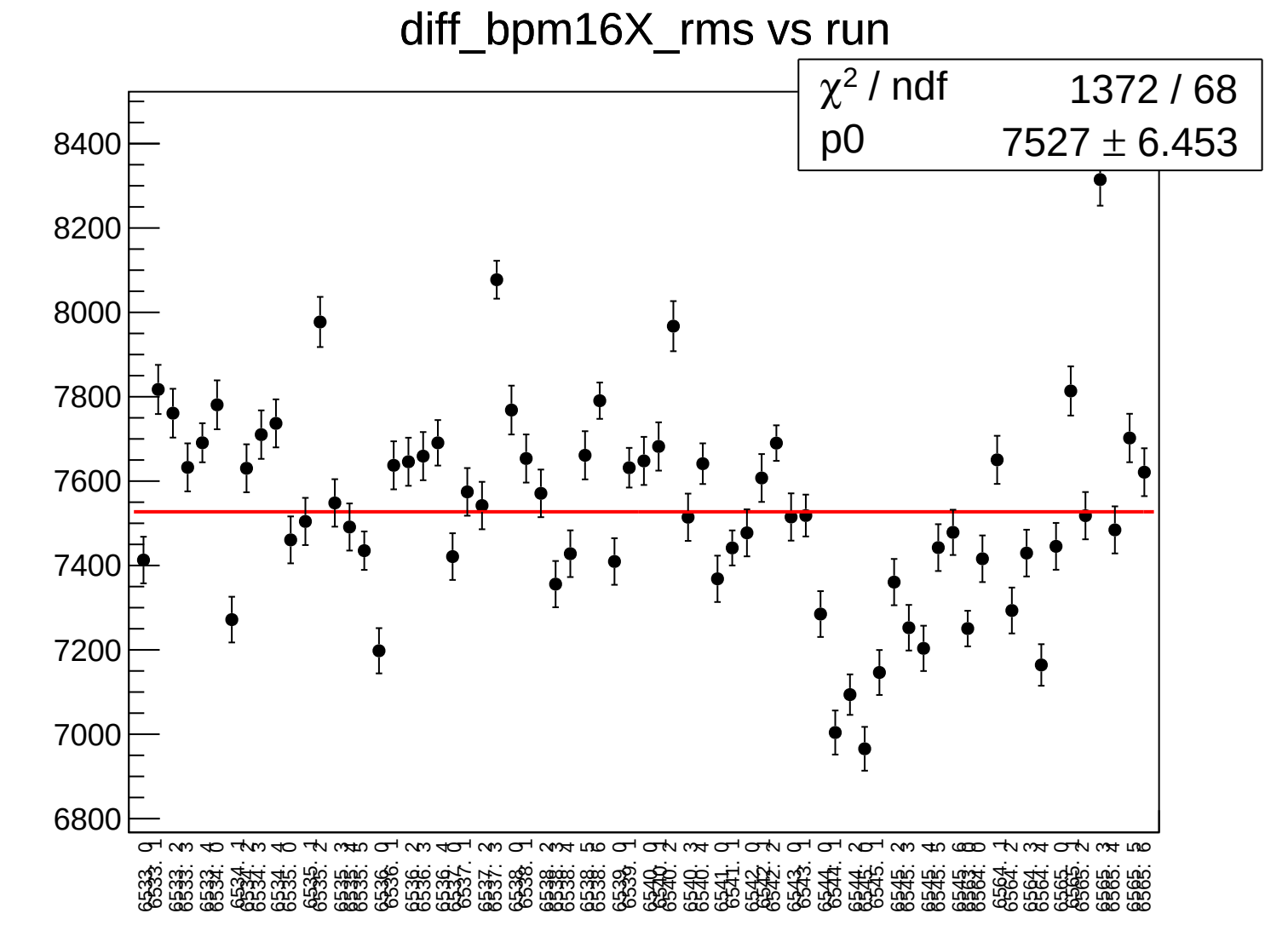

diff_bpm12Y_mean vs run
χ² / ndf 81.04 / 68
p0 −3.144 ± 2.761
pull
Entries 69
Mean −81.1
Std Dev 112

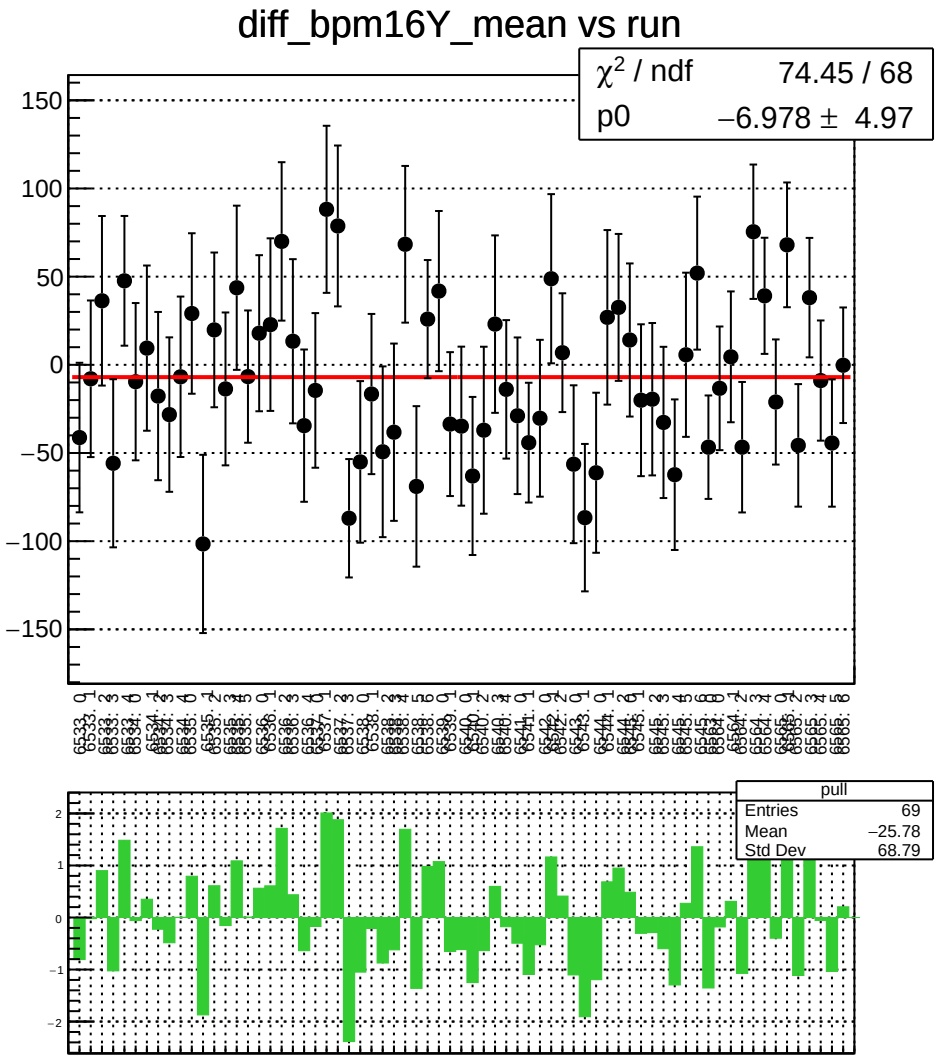

pull1D
Entries 69
Mean 0.02135
Std Dev 1.084

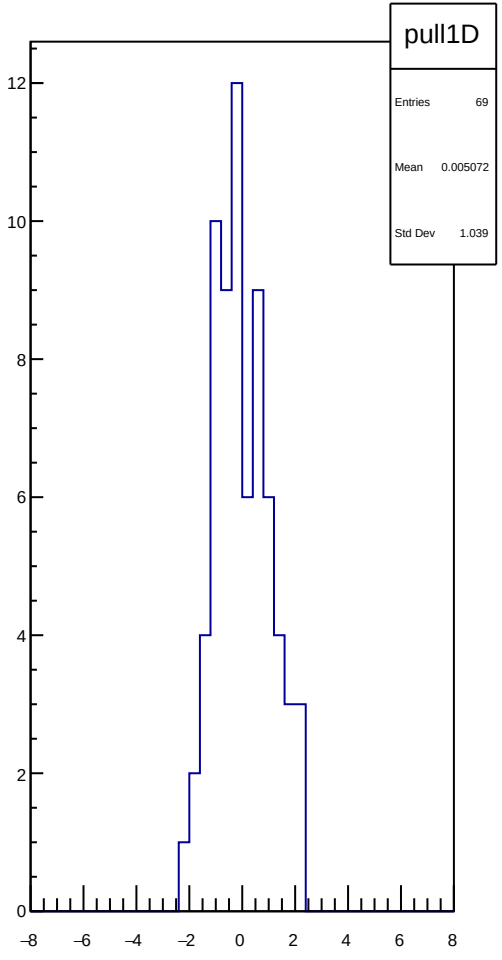

diff_bpm12Y_rms vs run
χ² / ndf 7738 / 68
p0 2272 ± 1.953
2600
2500
2400
2300
2200
2100
2000
1900

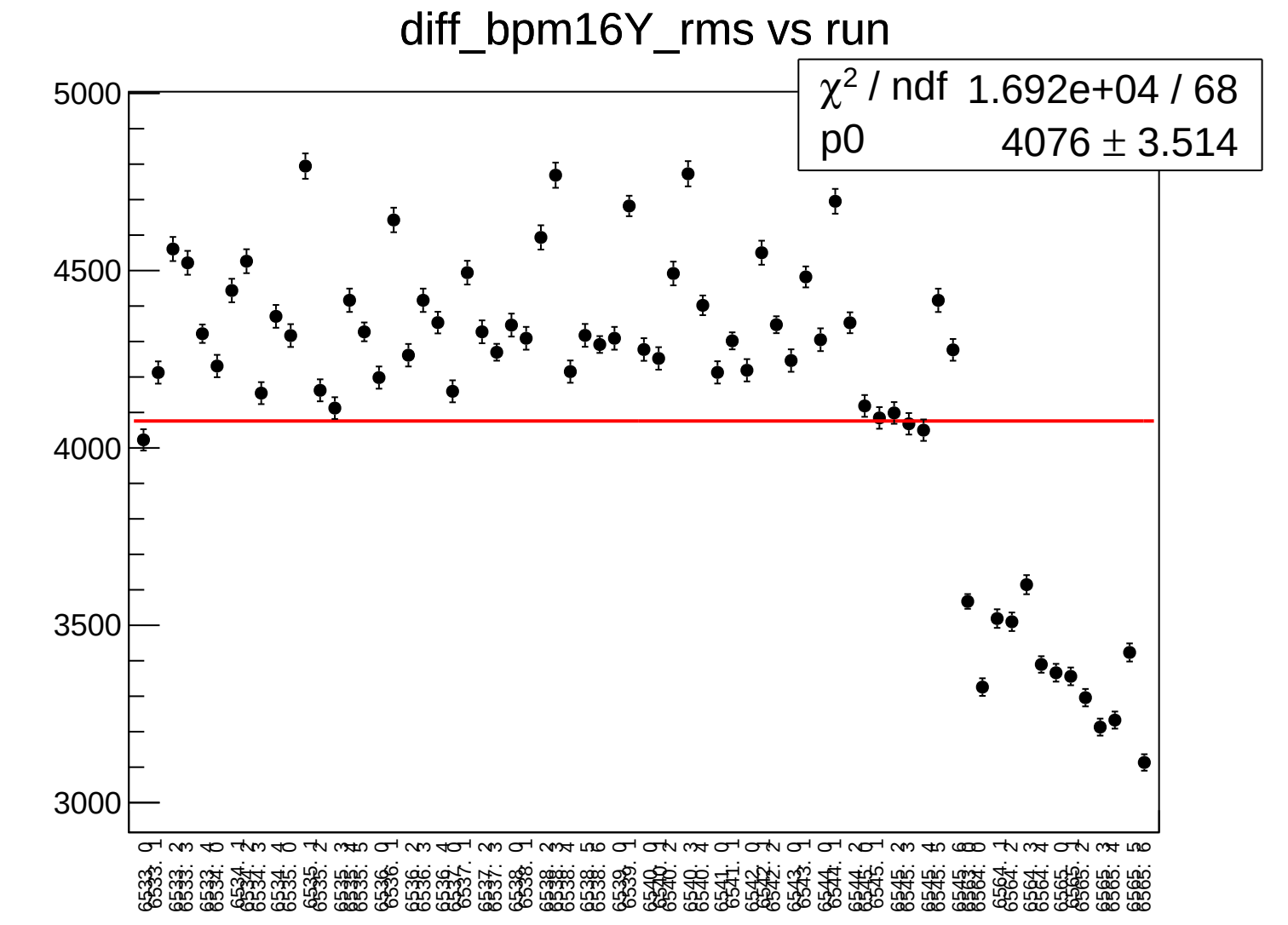

diff_bpm16X_mean vs run
χ² / ndf 79.8 / 68
p0 12.05 ± 9.125
pull
Entries 69
Mean 224.5
Std Dev 190.3

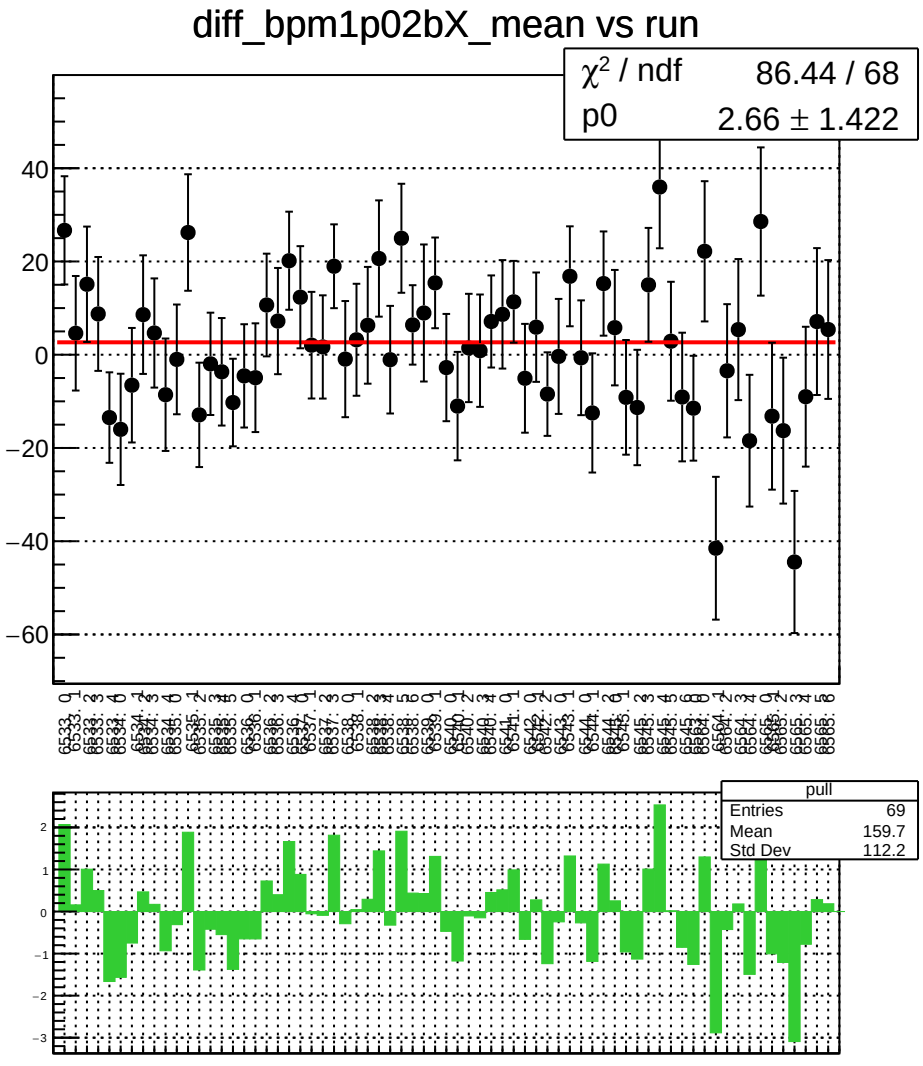

pull1D
Entries 69
Mean −0.0128
Std Dev 1.075

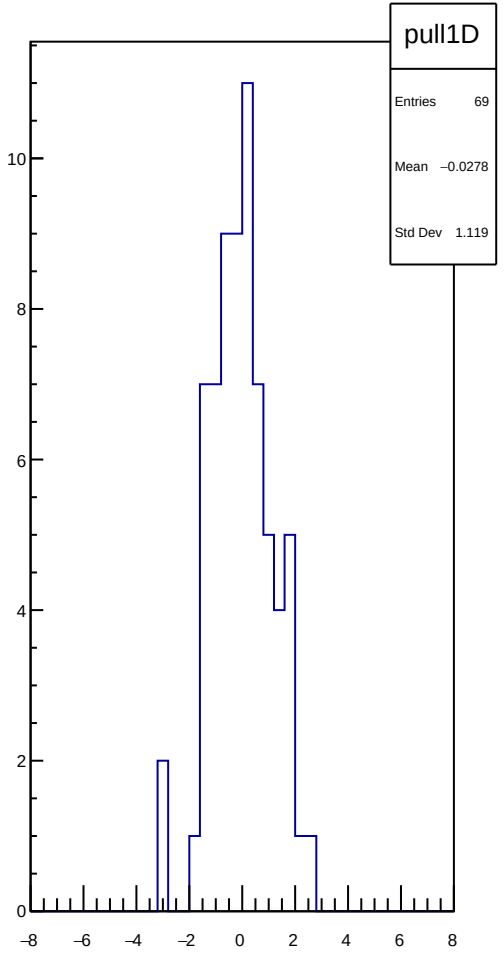

diff_bpm16X_rms vs run
χ² / ndf 1372 / 68
p0 7527 ± 6.453
8400
8200
8000
7800
7600
7400
7200
7000
6800

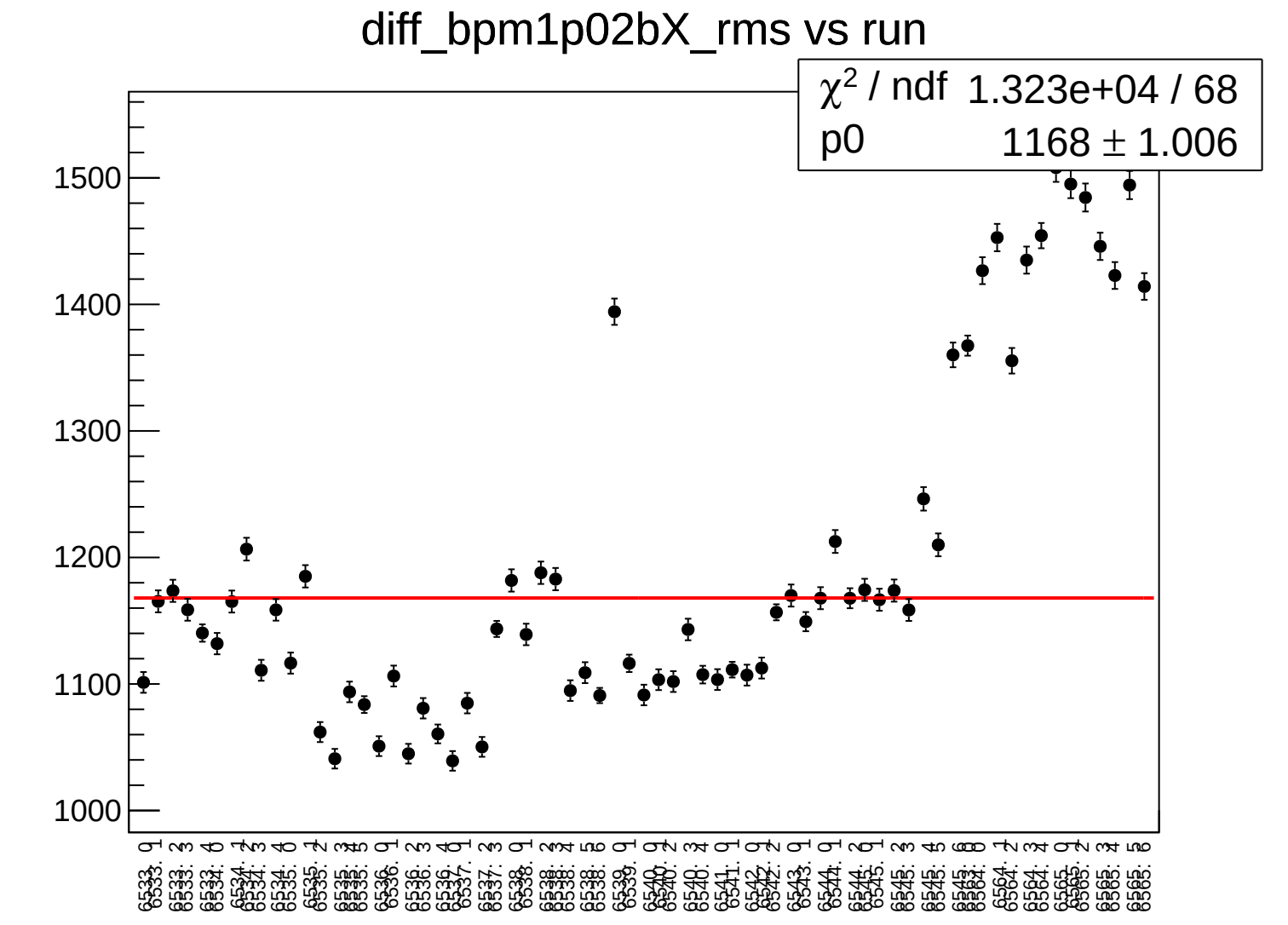

diff_bpm16Y_mean vs run
χ² / ndf 74.45 / 68
p0 −6.978 ± 4.97
pull
Entries 69
Mean −25.78
Std Dev 68.79

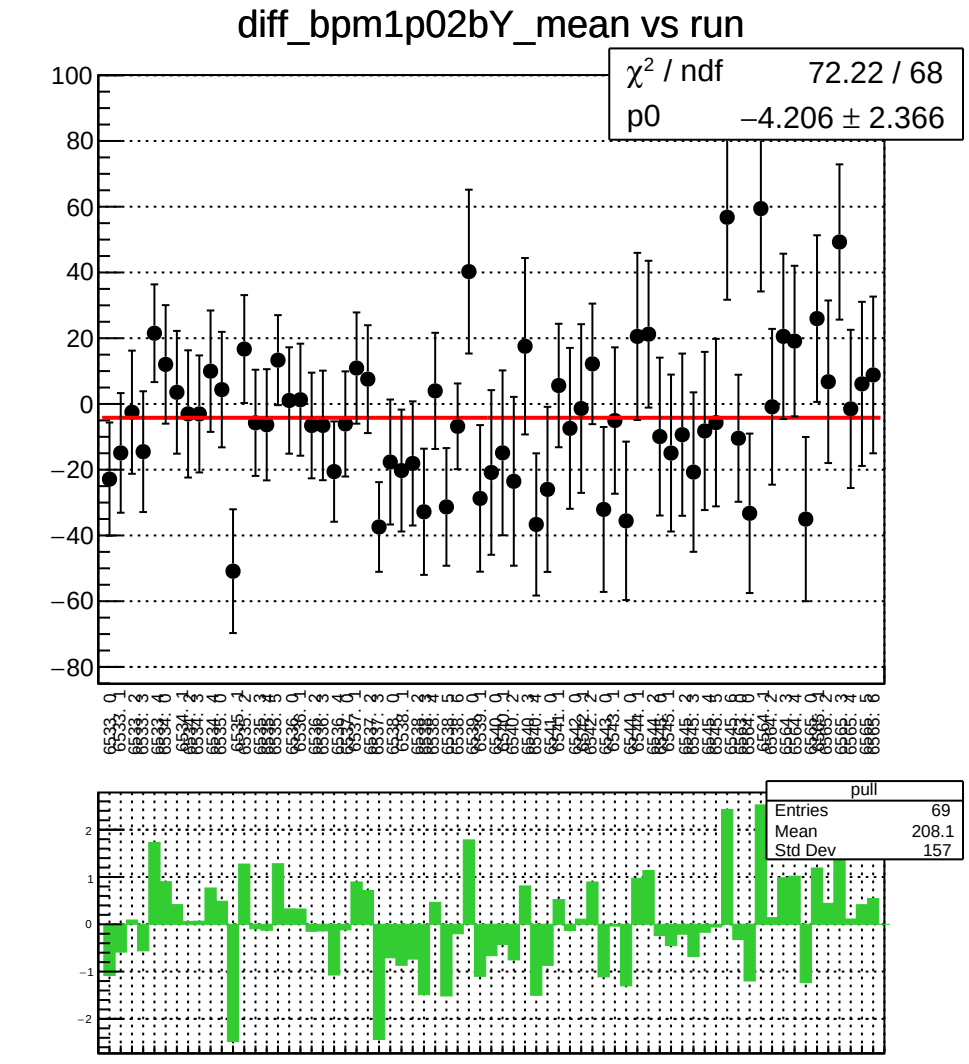

pull1D
Entries 69
Mean 0.005072
Std Dev 1.039

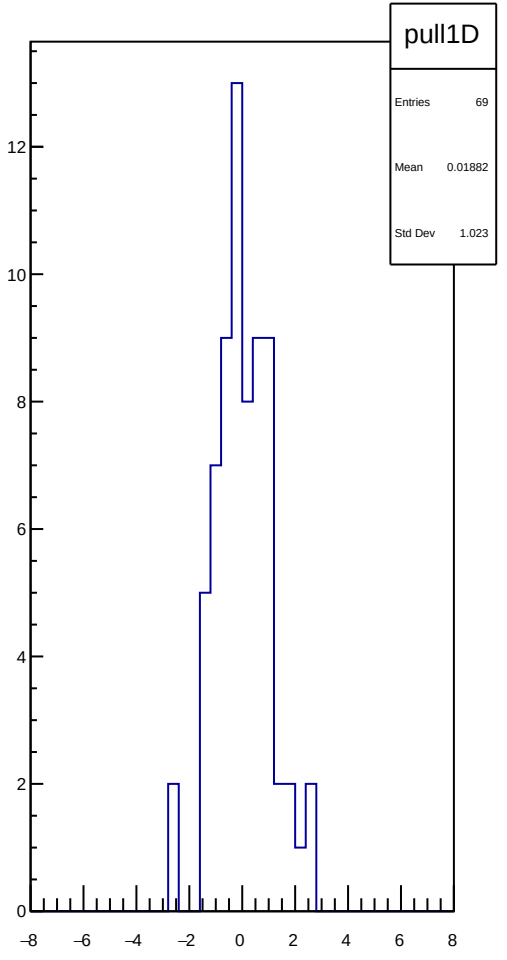

diff_bpm16Y_rms vs run
χ² / ndf 1.692e+04 / 68
p0 4076 ± 3.514
5000
4500
4000
3500
3000

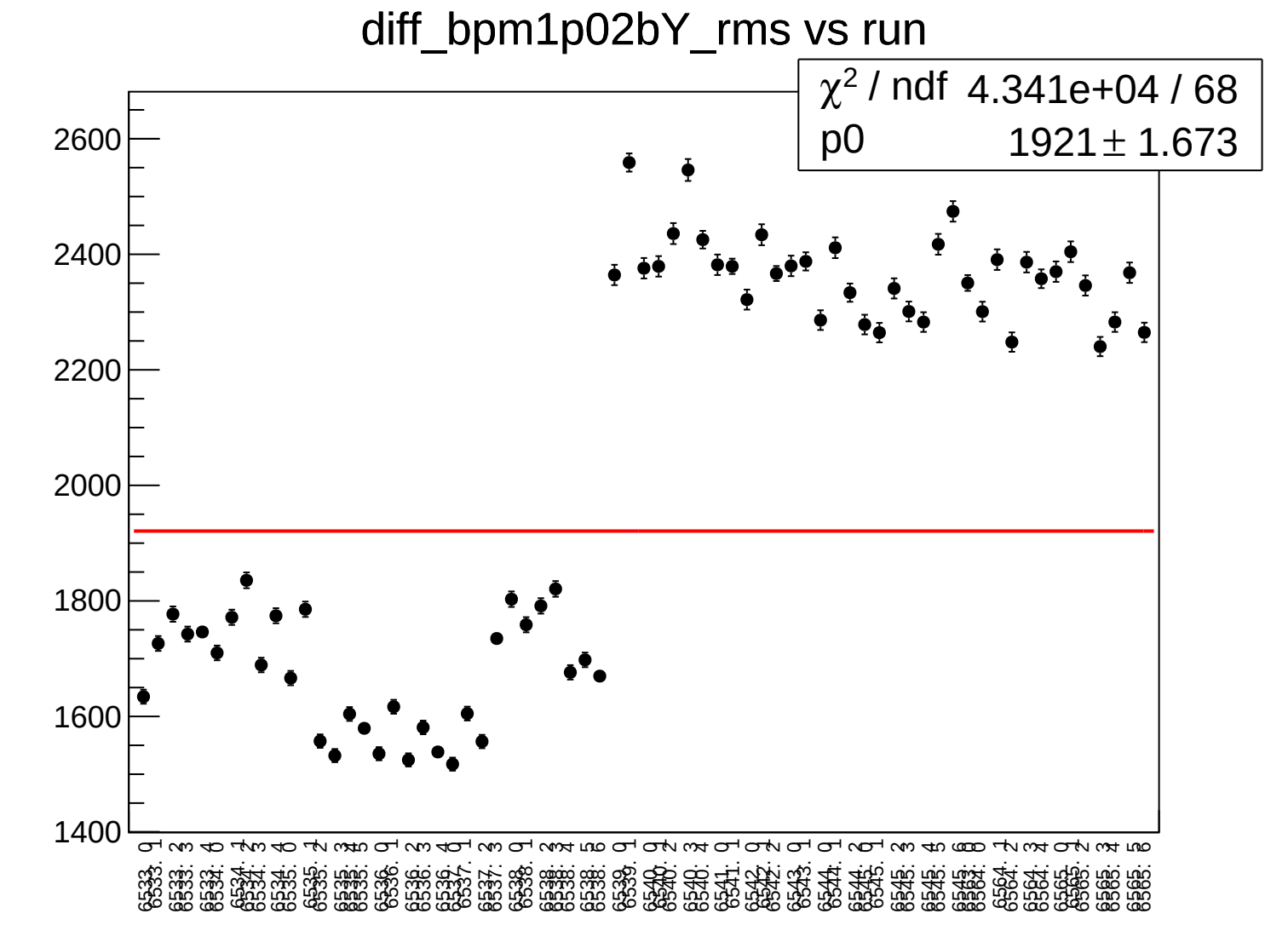

diff_bpm1p02bX_mean vs run
χ² / ndf 86.44 / 68
p0 2.66 ± 1.422
pull
Entries 69
Mean 159.7
Std Dev 112.2

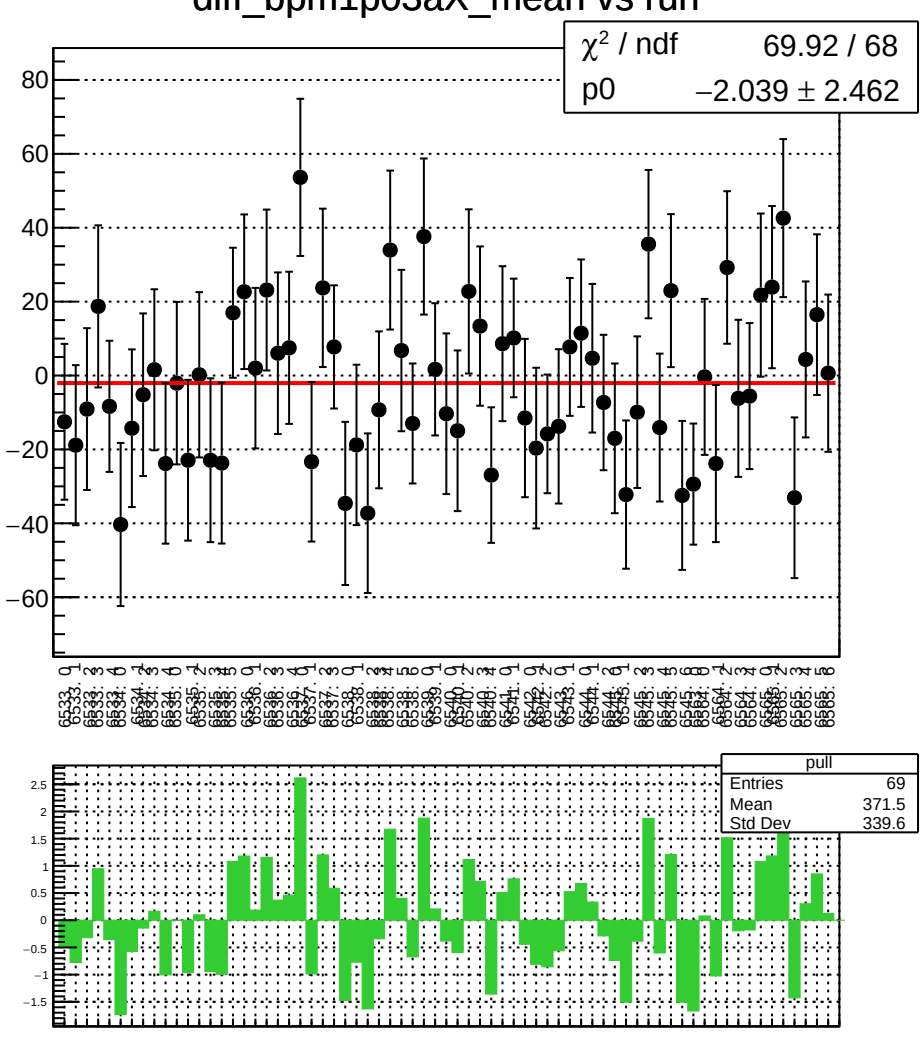

pull1D
Entries 69
Mean −0.0278
Std Dev 1.119

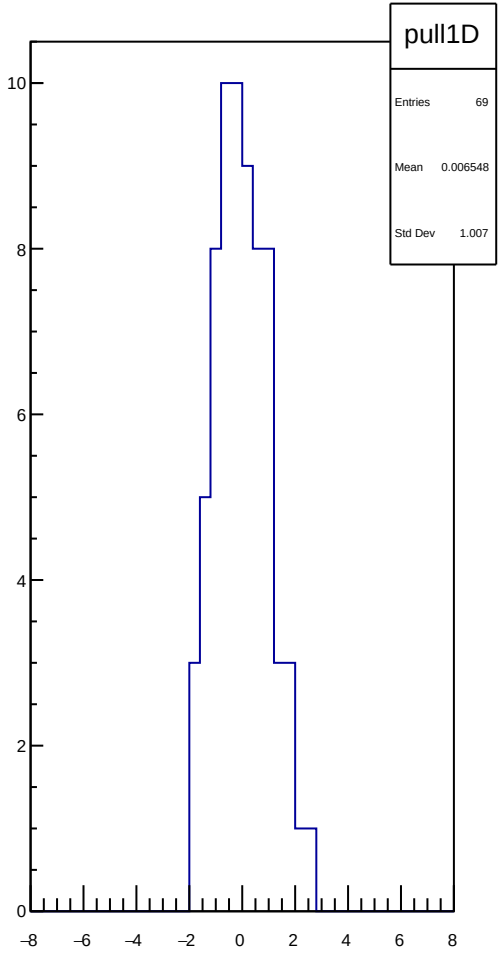

diff_bpm1p02bX_rms vs run
χ² / ndf 1.323e+04 / 68
p0 1168 ± 1.006
1500
1400
1300
1200
1100
1000

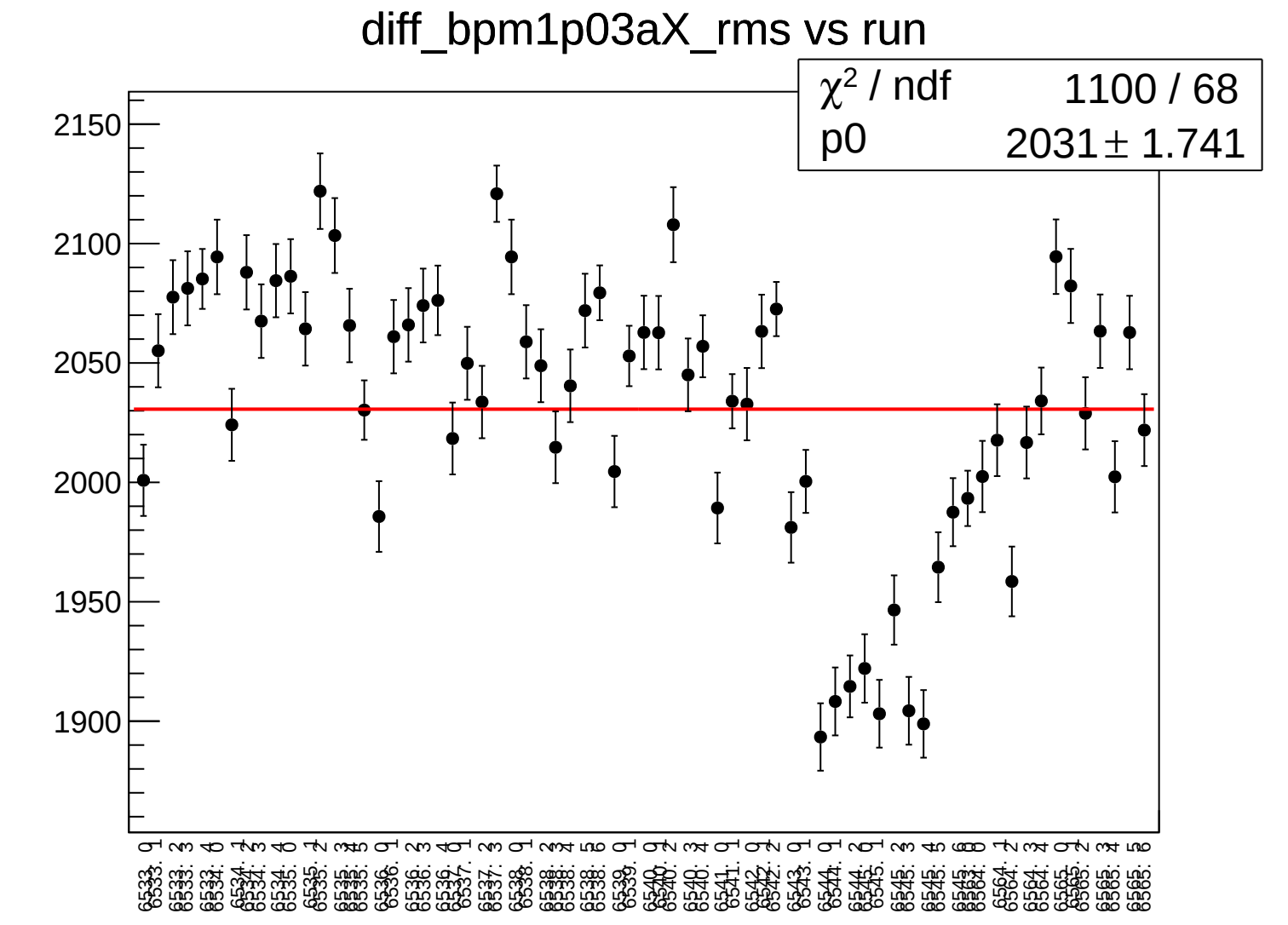

diff_bpm1p02bY_mean vs run
χ² / ndf 72.22 / 68
p0 −4.206 ± 2.366
pull
Entries 69
Mean 208.1
Std Dev 157

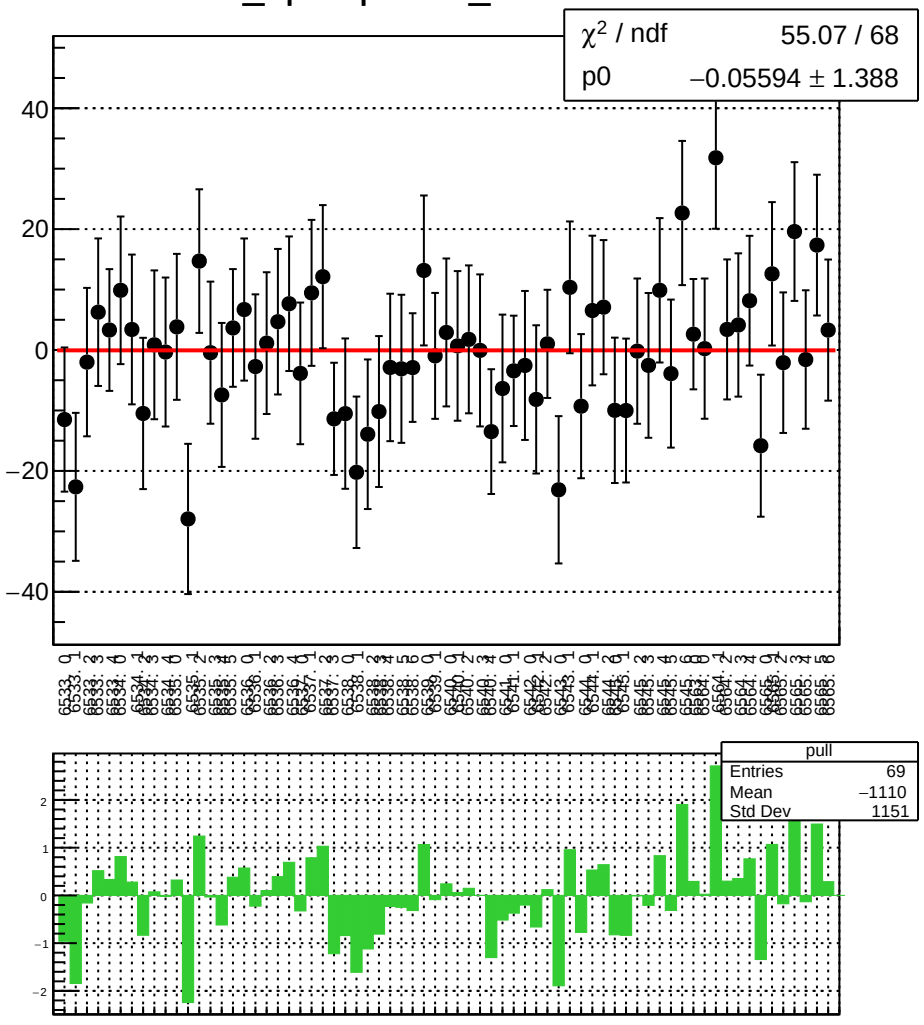

pull1D
Entries 69
Mean 0.01882
Std Dev 1.023

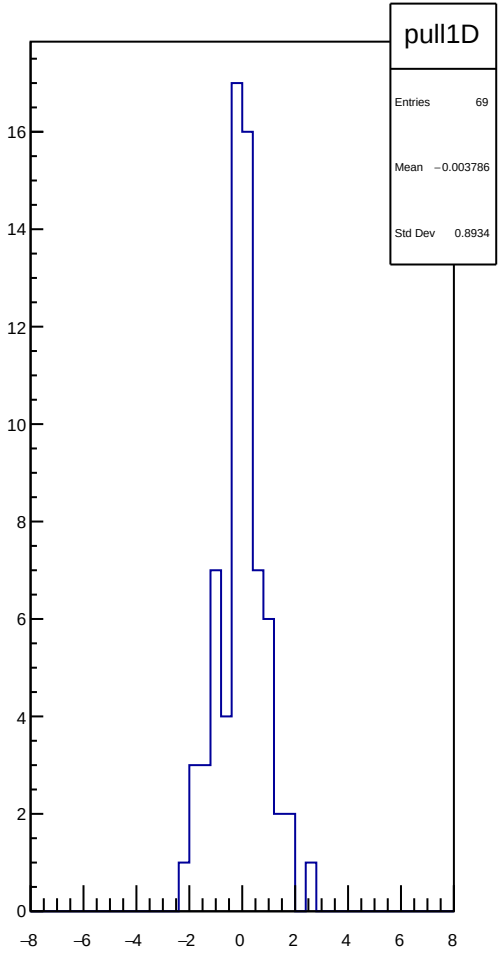

diff_bpm1p02bY_rms vs run
χ² / ndf 4.341e+04 / 68
p0 1921 ± 1.673
2600
2400
2200
2000
1800
1600
1400

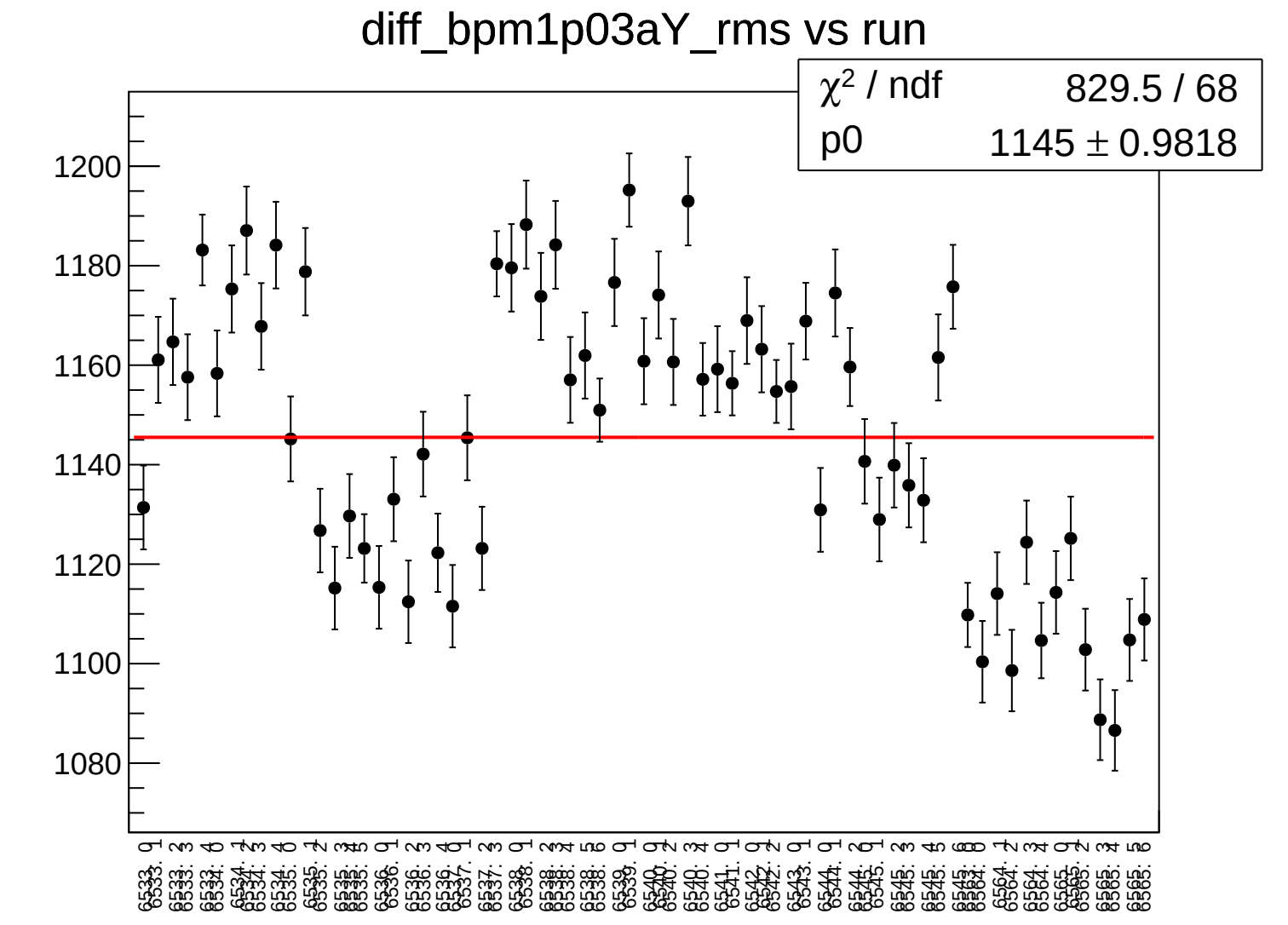

diff_bpm1p03aX_mean vs run
χ² / ndf 69.92 / 68
p0 −2.039 ± 2.462
pull
Entries 69
Mean 371.5
Std Dev 339.6

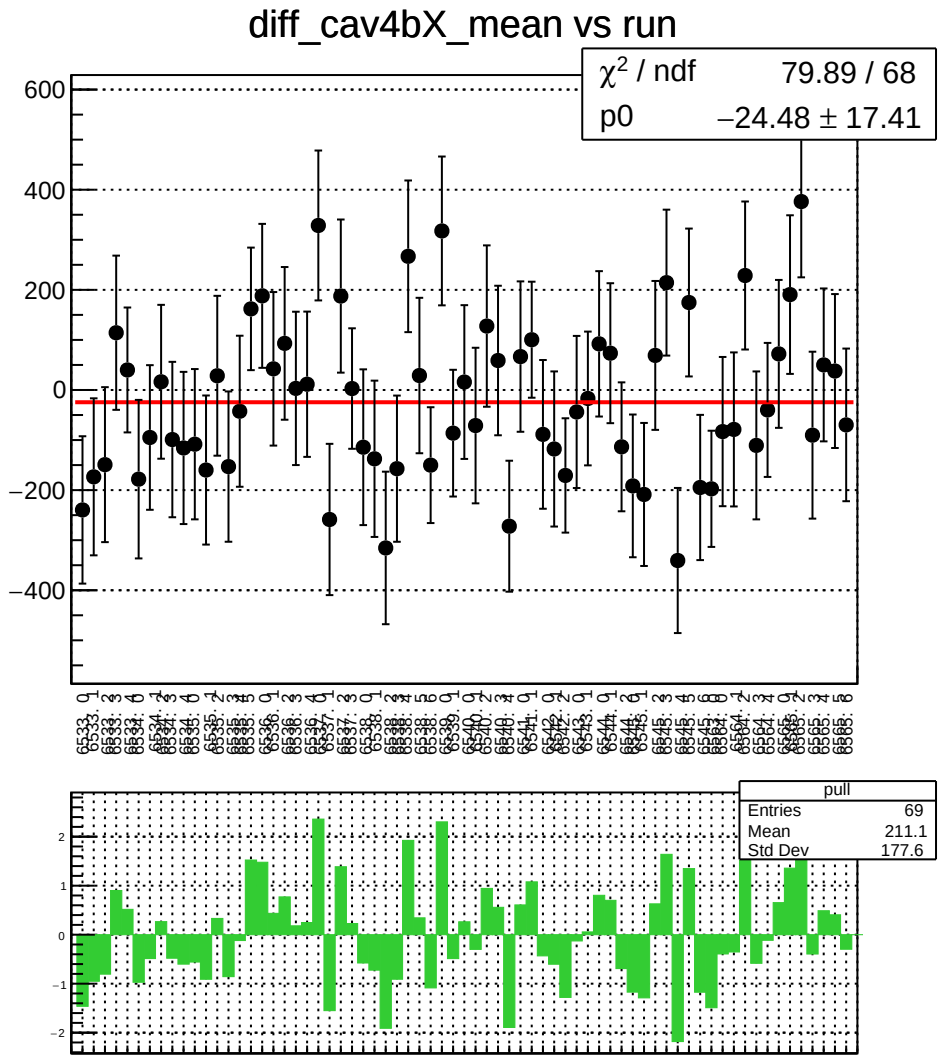

pull1D
Entries 69
Mean 0.006548
Std Dev 1.007

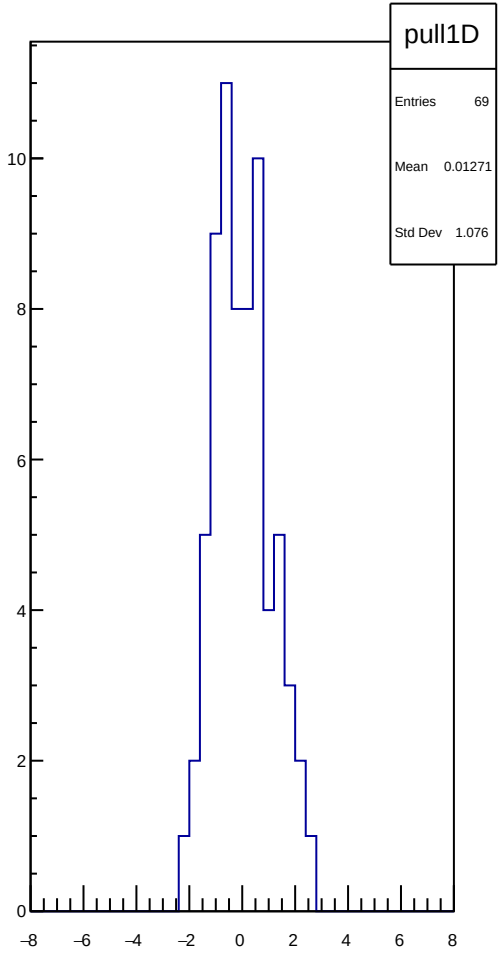

diff_bpm1p03aX_rms vs run
χ² / ndf 1100 / 68
p0 2031 ± 1.741
2150
2100
2050
2000
1950
1900

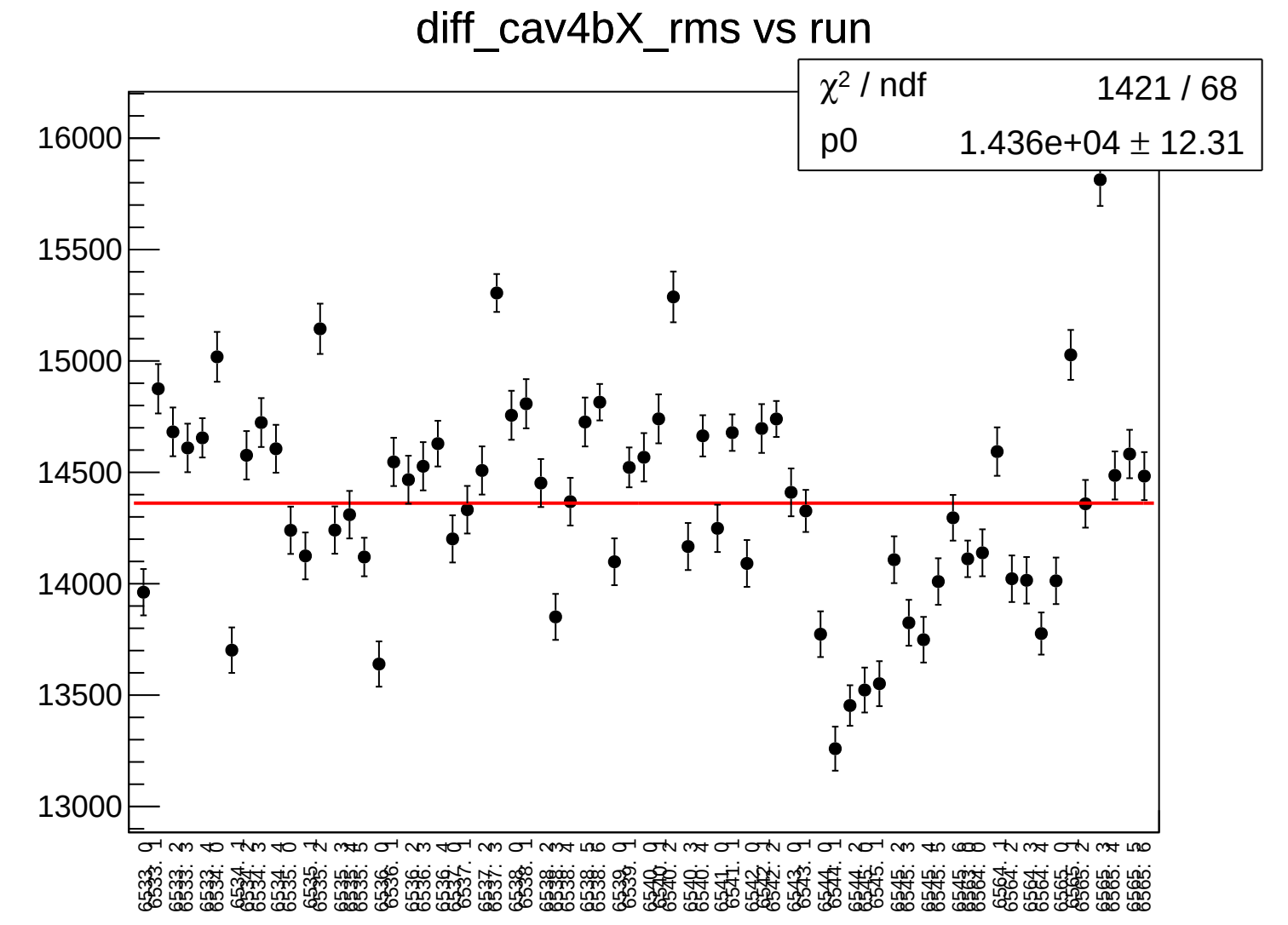

diff_bpm1p03aY_mean vs run
χ² / ndf 55.07 / 68
p0 −0.05594 ± 1.388
pull
Entries 69
Mean −1110
Std Dev 1151

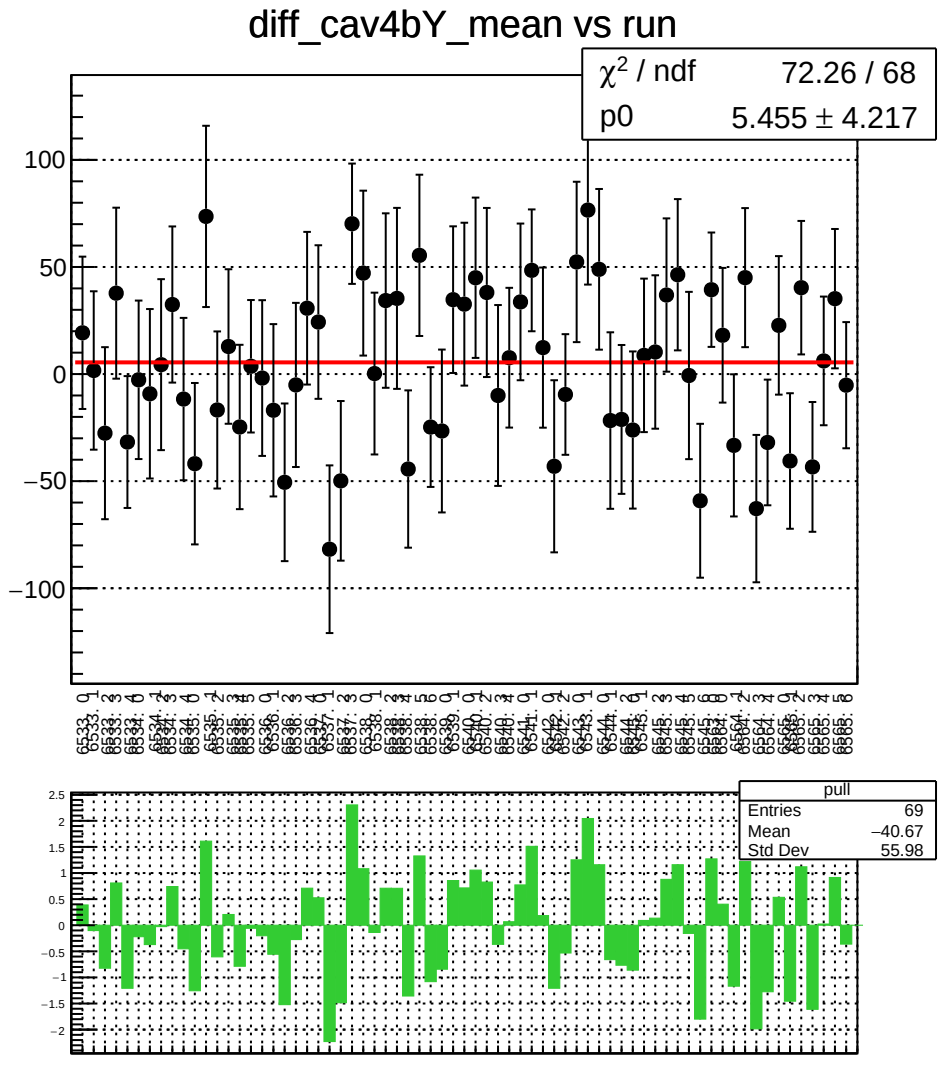

pull1D
Entries 69
Mean −0.003786
Std Dev 0.8934

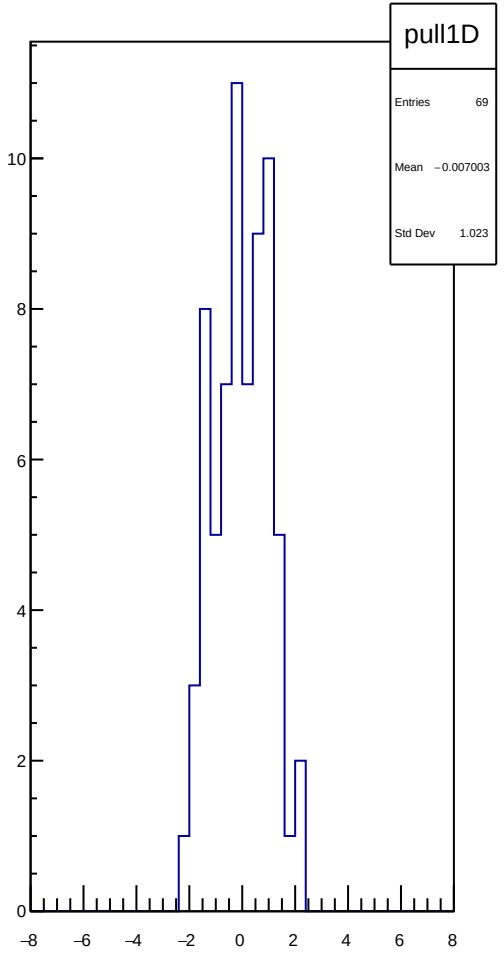

diff_bpm1p03aY_rms vs run
χ² / ndf 829.5 / 68
p0 1145 ± 0.9818
1200
1180
1160
1140
1120
1100
1080

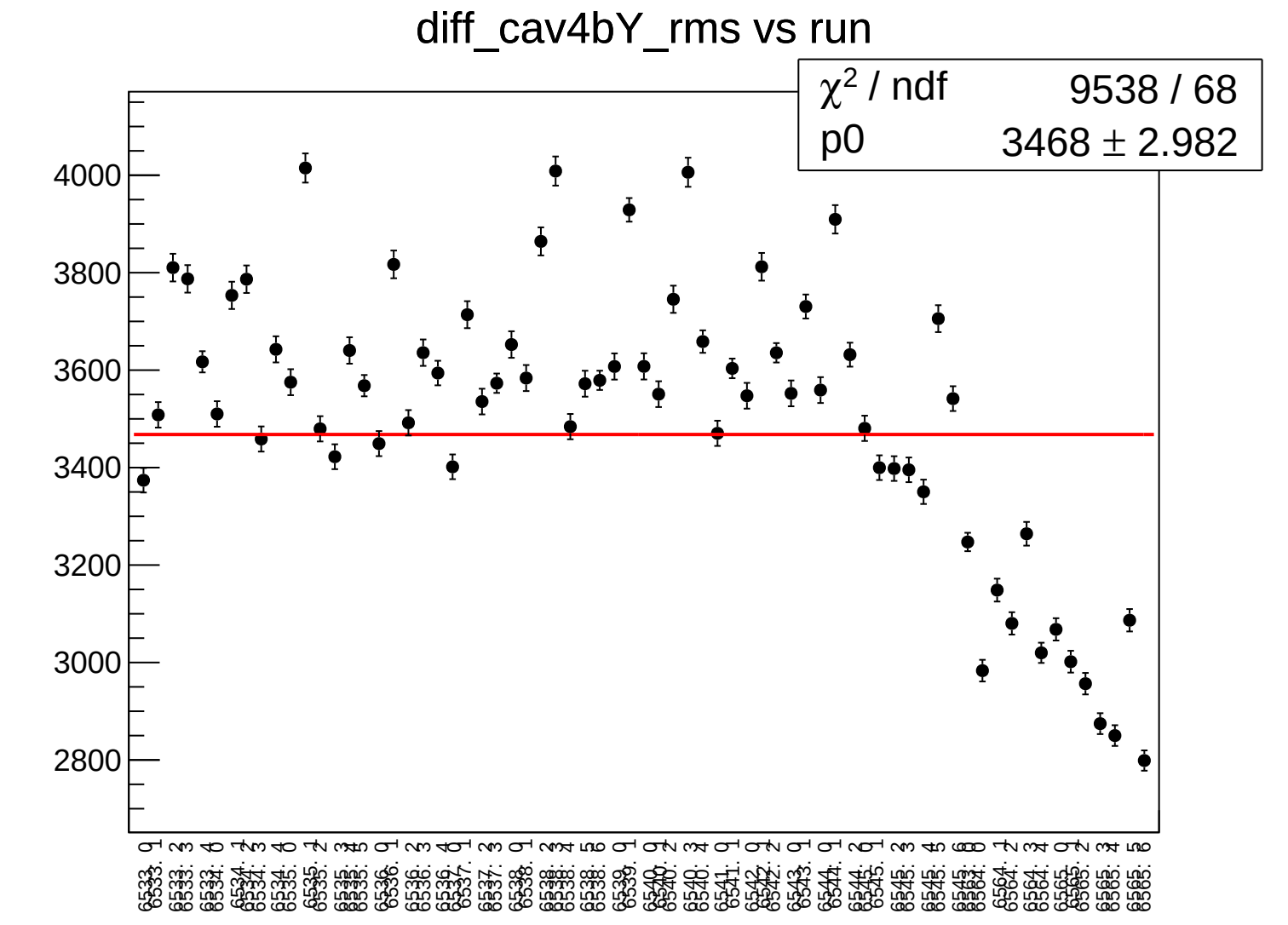

diff_cav4bX_mean vs run
$\chi^2$ / ndf 79.89 / 68
p0 −24.48 ± 17.41
600
400
200
0
−200
−400
pull
Entries 69
Mean 211.1
Std Dev 177.6
2
1
0
−1
−2

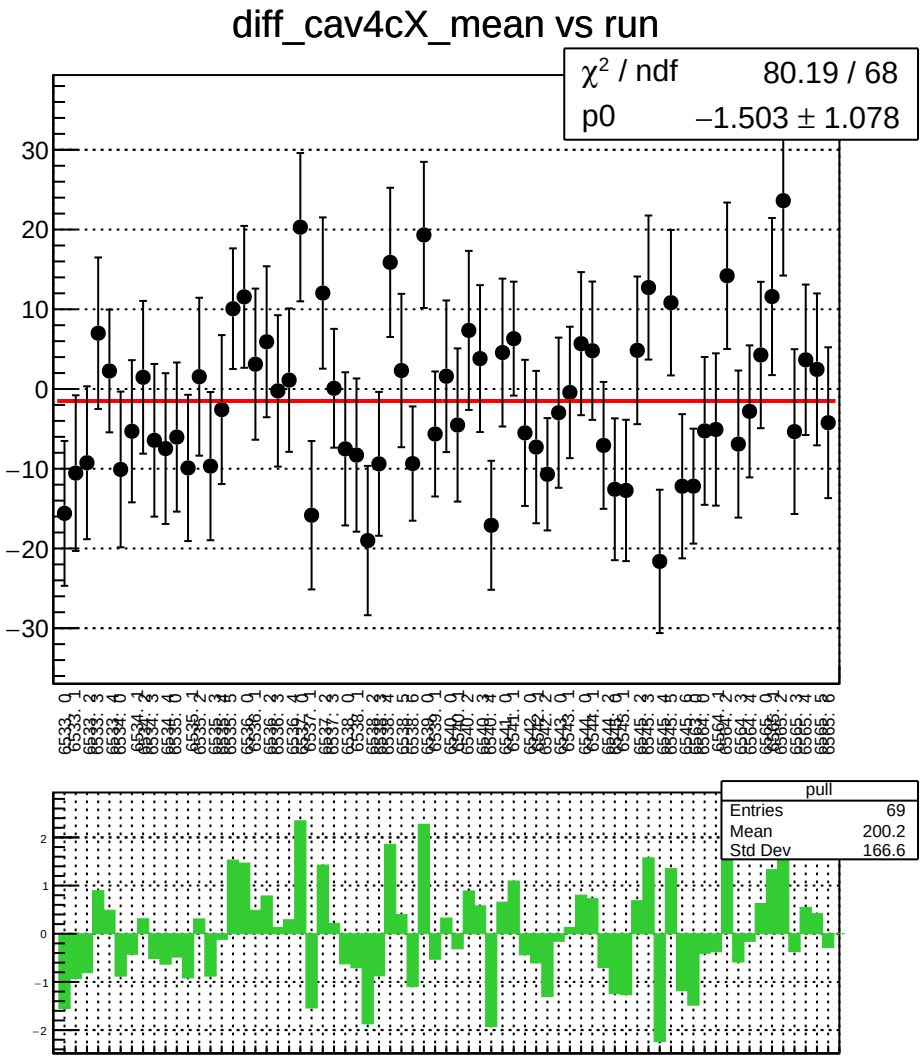

pull1D
Entries 69
Mean 0.01271
Std Dev 1.076
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

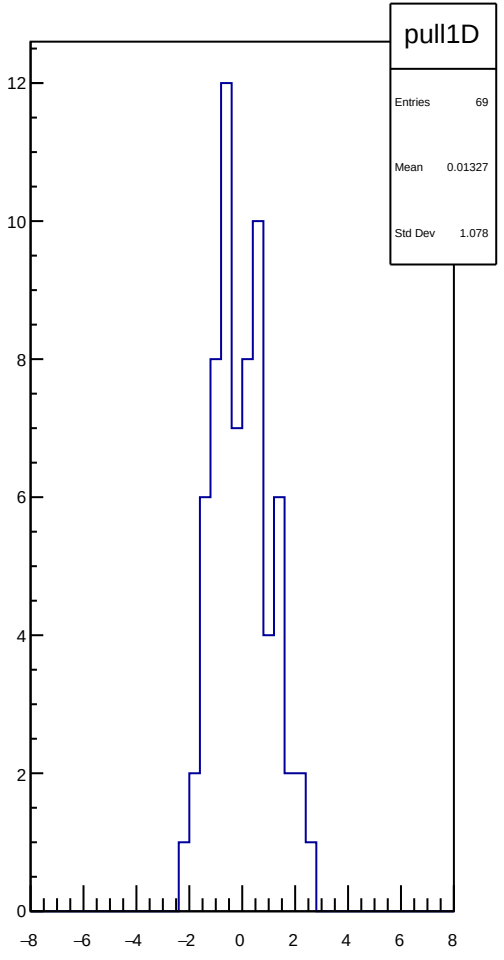

diff_cav4bX_rms vs run
χ² / ndf 1421 / 68
p0 1.436e+04 ± 12.31
16000
15500
15000
14500
14000
13500
13000

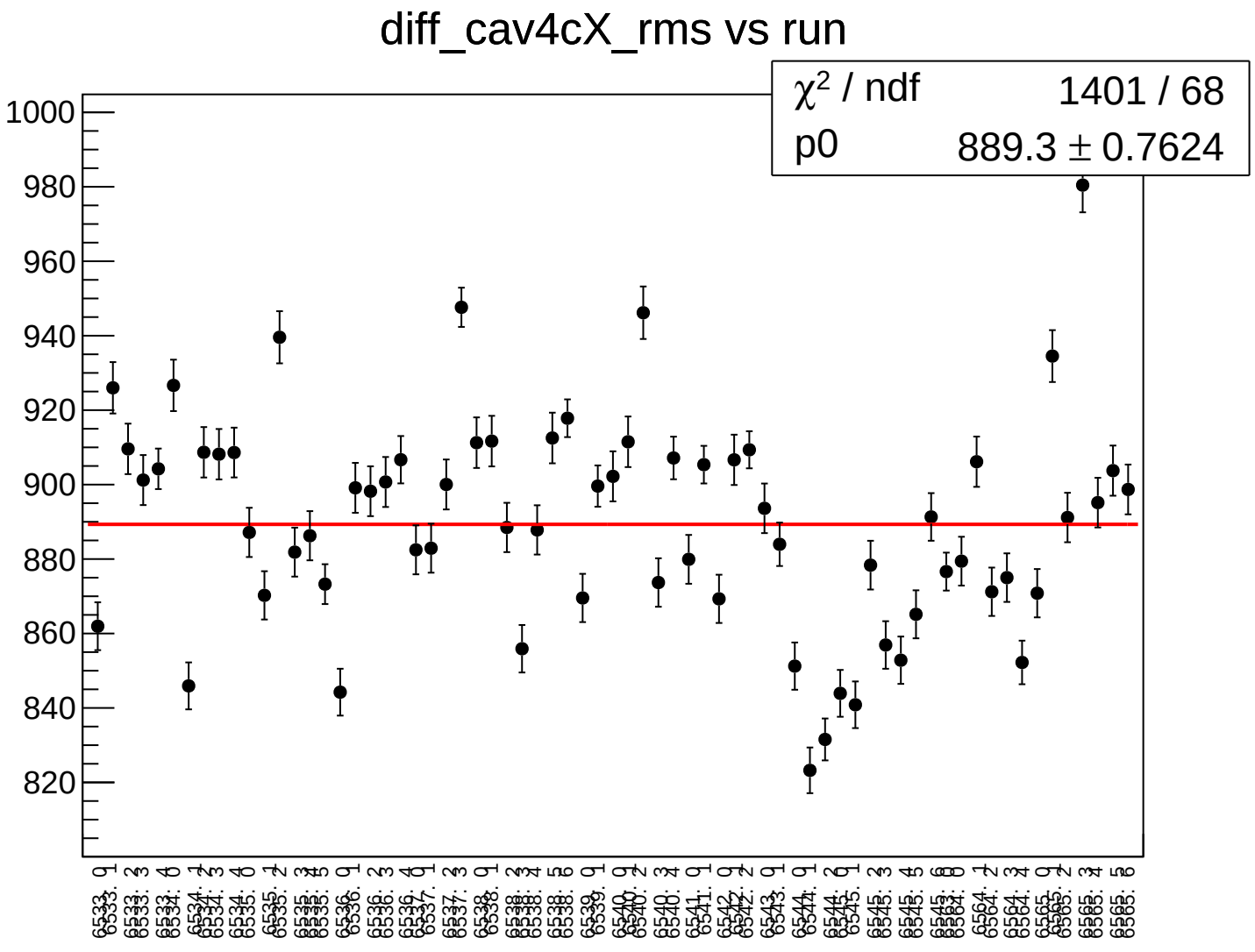

diff_cav4bY_mean vs run
$\chi^2$ / ndf 72.26 / 68
p0 5.455 ± 4.217
100
50
0
−50
−100
pull
Entries 69
Mean −40.67
Std Dev 55.98
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

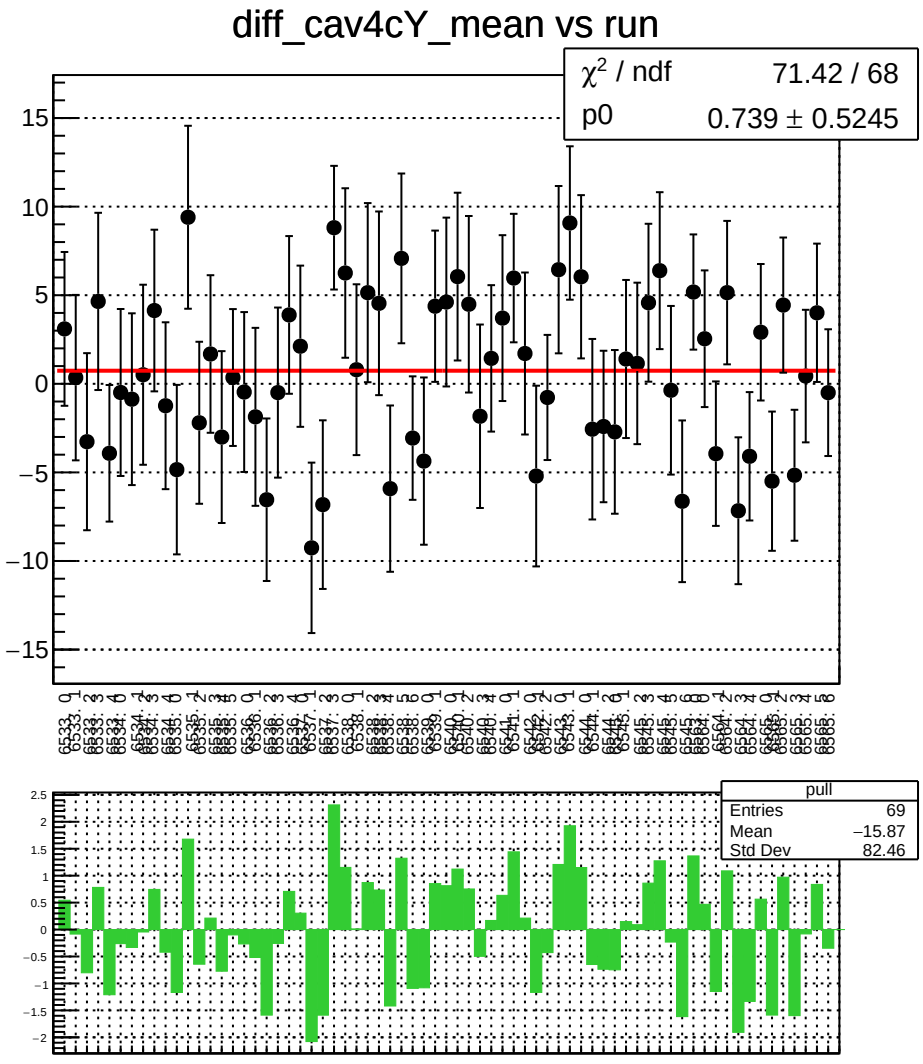

pull1D
Entries 69
Mean −0.007003
Std Dev 1.023
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

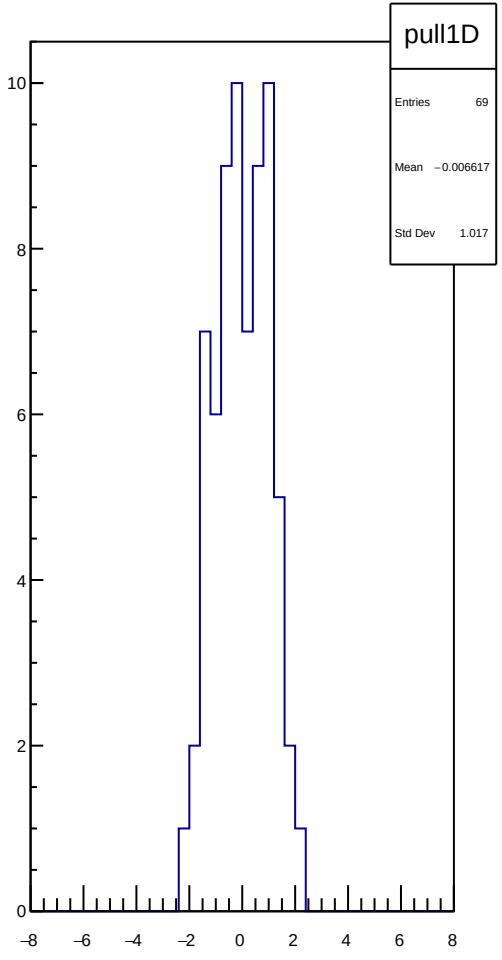

diff_cav4bY_rms vs run
χ² / ndf 9538 / 68
p0 3468 ± 2.982
4000
3800
3600
3400
3200
3000
2800

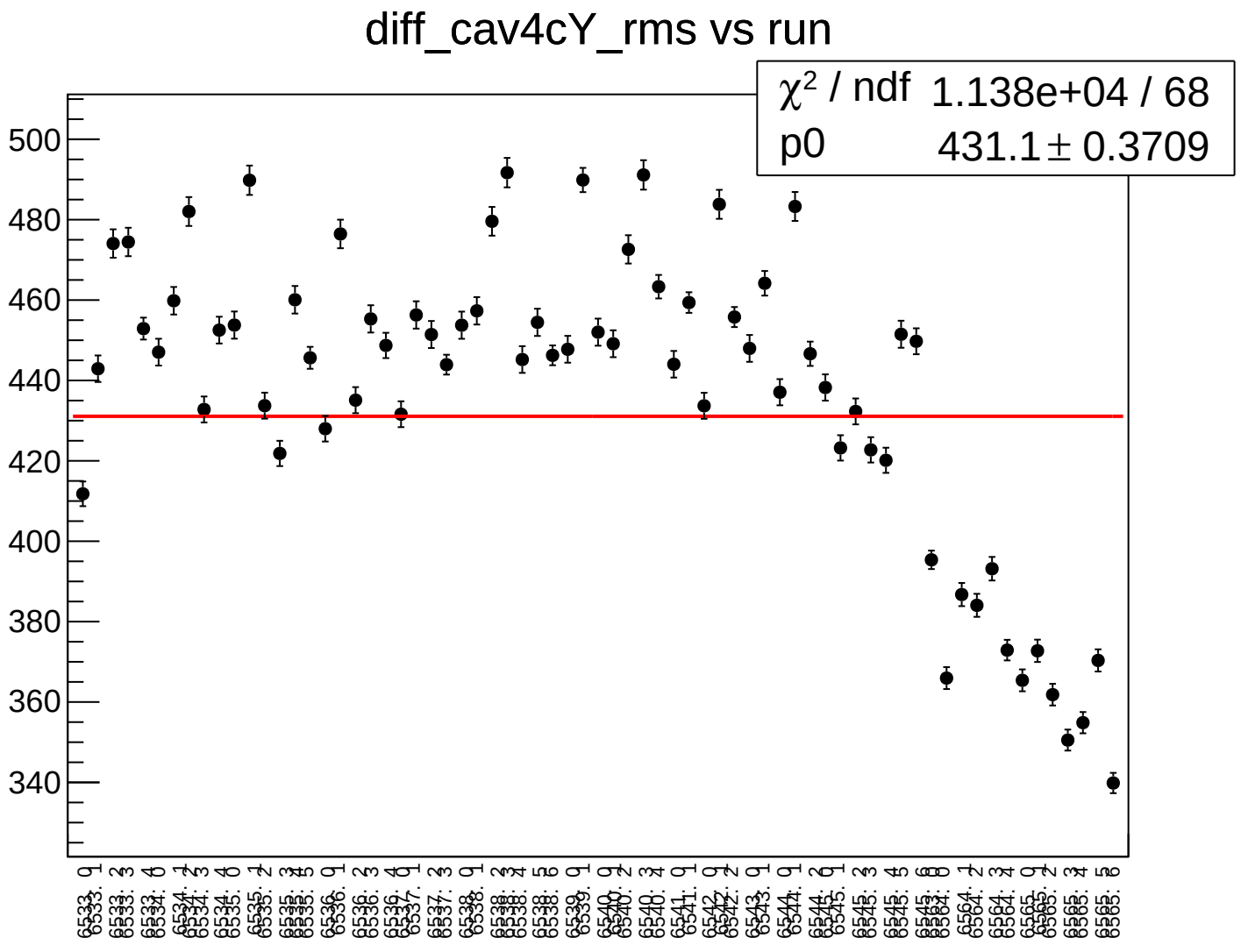

diff_cav4cX_mean vs run
χ² / ndf 80.19 / 68
p0 −1.503 ± 1.078
pull
Entries 69
Mean 200.2
Std Dev 166.6

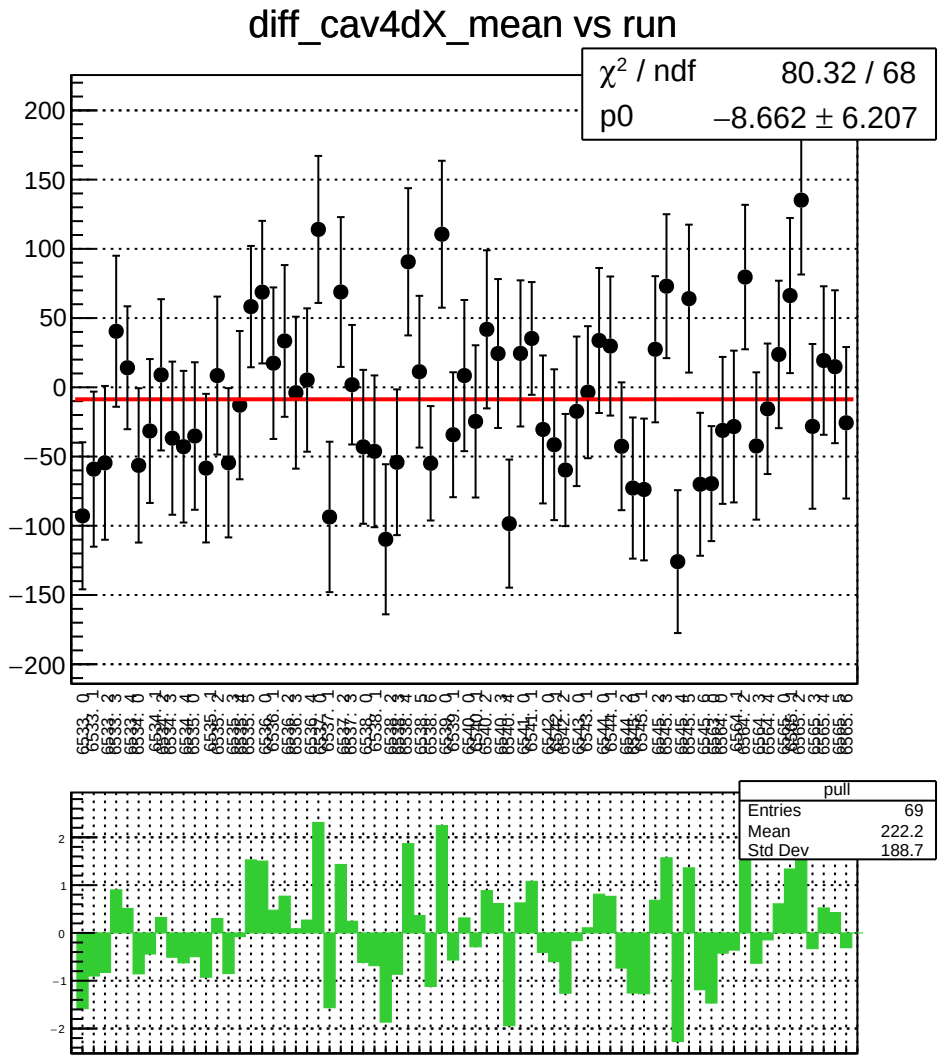

pull1D
Entries 69
Mean 0.01327
Std Dev 1.078

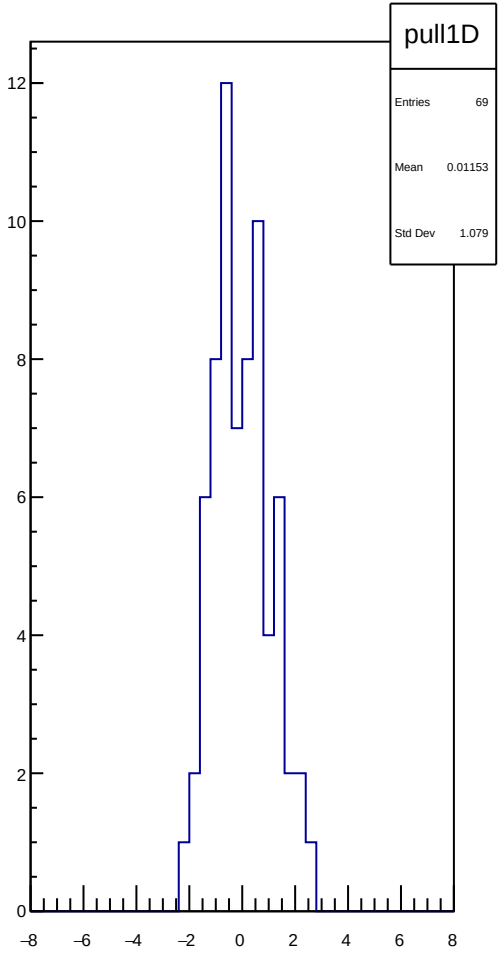

diff_cav4cX_rms vs run
χ² / ndf 1401 / 68
p0 889.3 ± 0.7624
1000
980
960
940
920
900
880
860
840
820

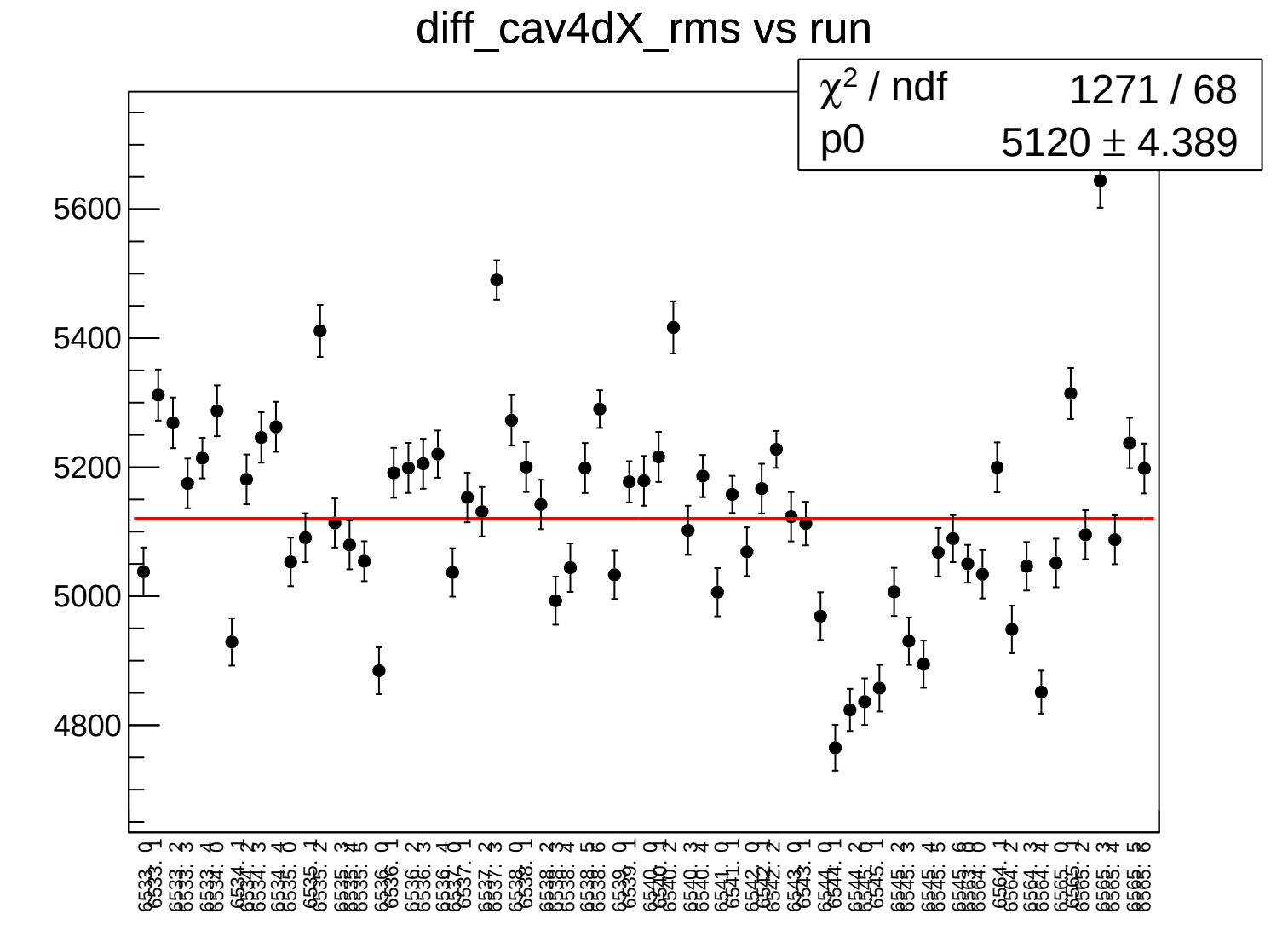

diff_cav4cY_mean vs run
χ² / ndf 71.42 / 68
p0 0.739 ± 0.5245
pull
Entries 69
Mean −15.87
Std Dev 82.46

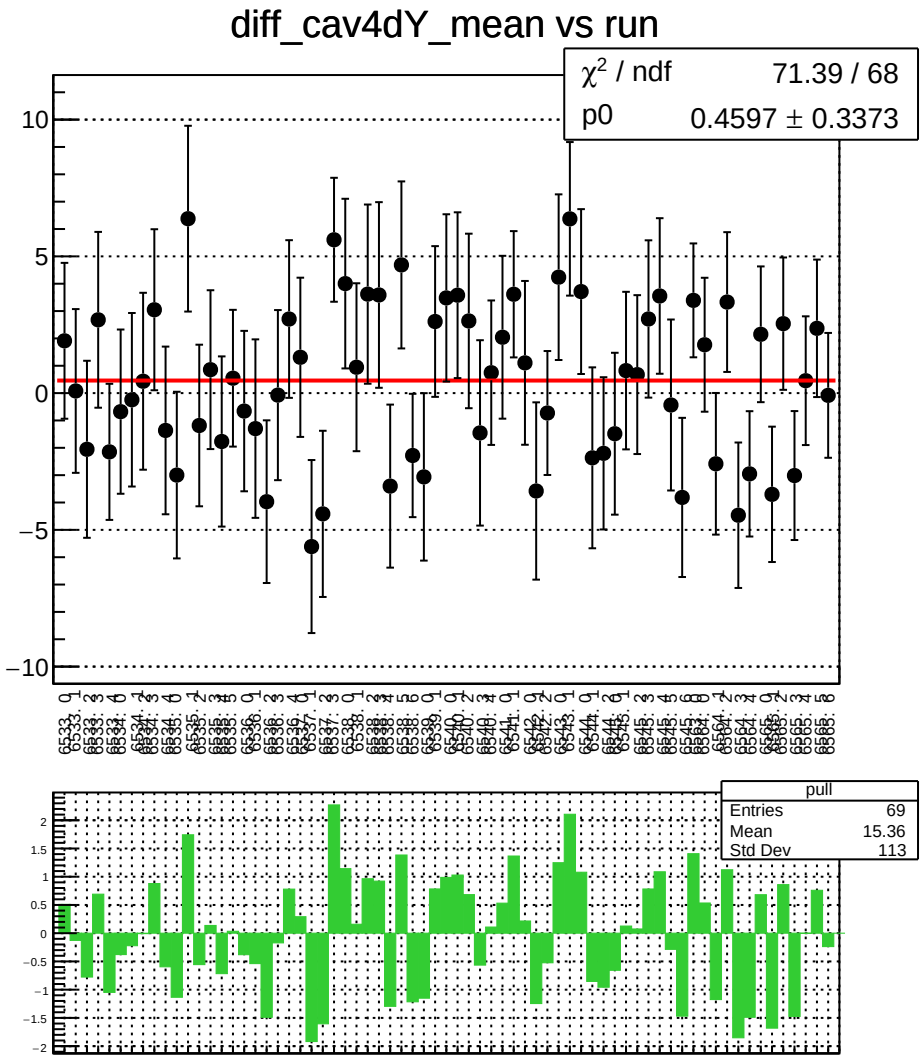

pull1D
Entries 69
Mean −0.006617
Std Dev 1.017

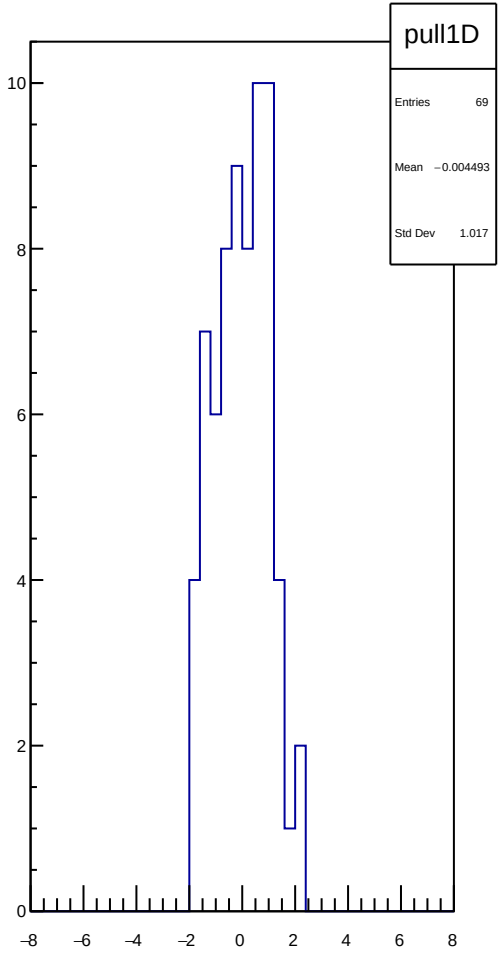

diff_cav4cY_rms vs run
χ² / ndf 1.138e+04 / 68
p0 431.1 ± 0.3709
500
480
460
440
420
400
380
360
340

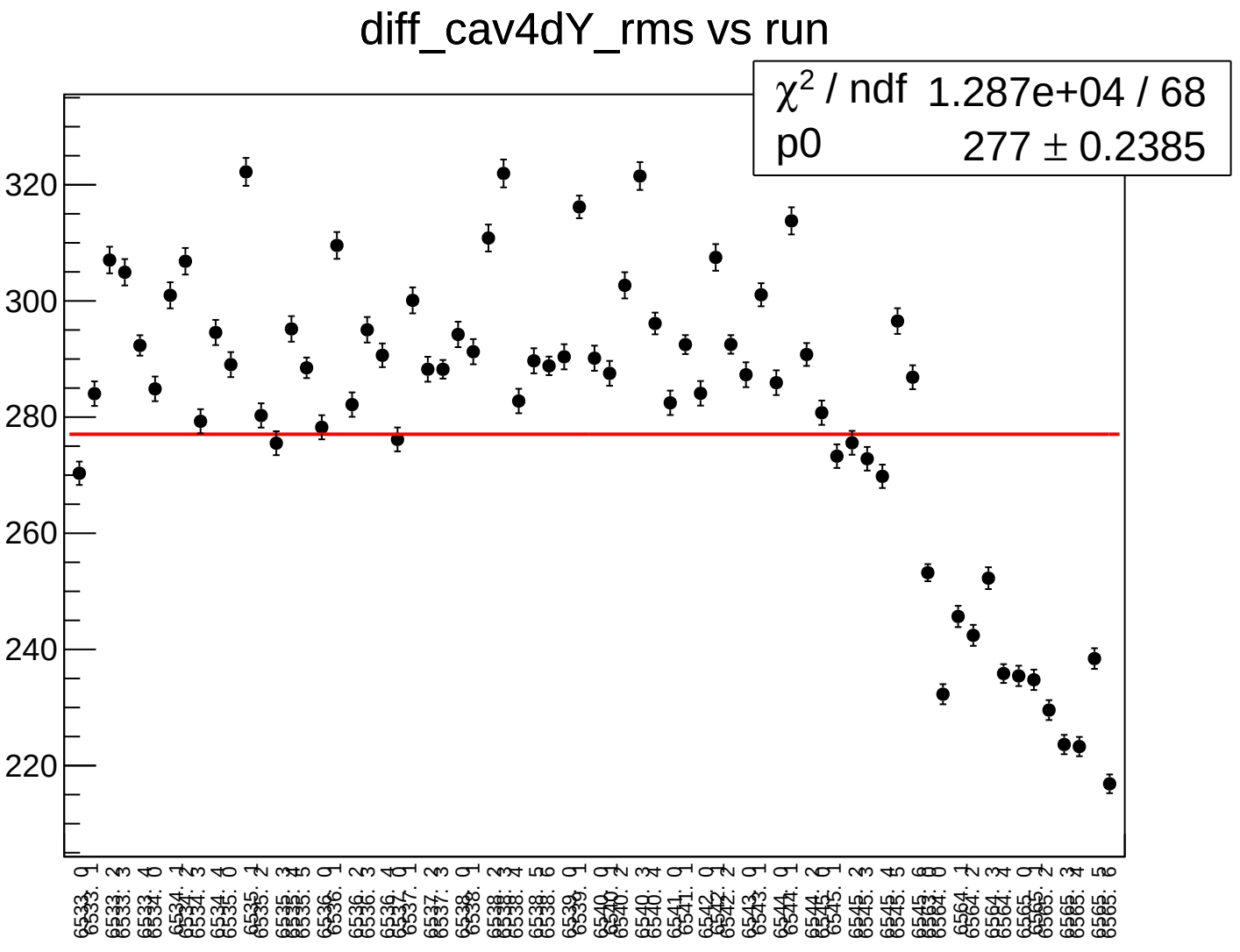

diff_cav4dX_mean vs run
χ² / ndf 80.32 / 68
p0 −8.662 ± 6.207
pull
Entries 69
Mean 222.2
Std Dev 188.7

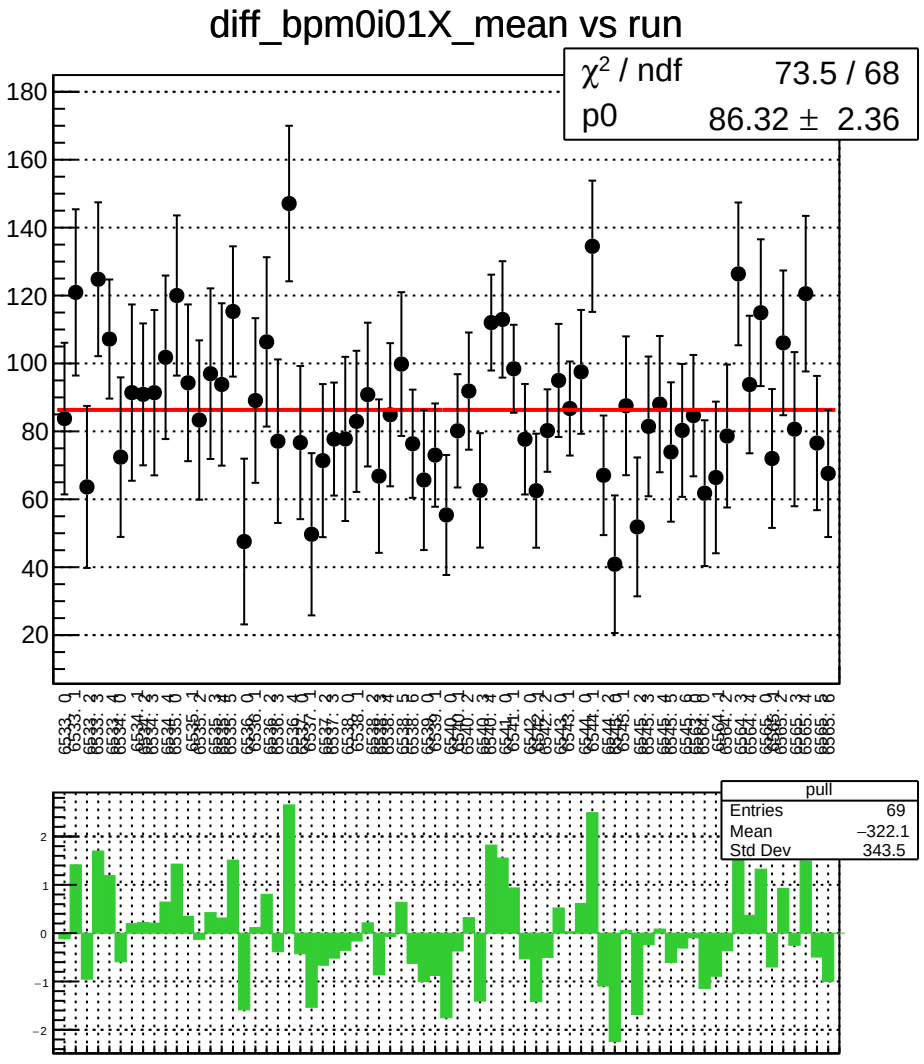

pull1D
Entries 69
Mean 0.01153
Std Dev 1.079

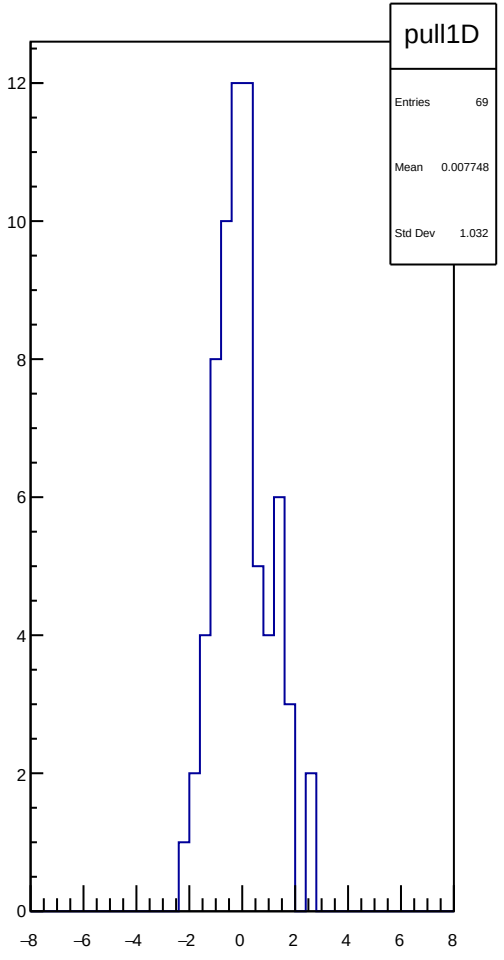

diff_cav4dX_rms vs run
$\chi^2$ / ndf 1271 / 68
p0 5120 ± 4.389
5600
5400
5200
5000
4800

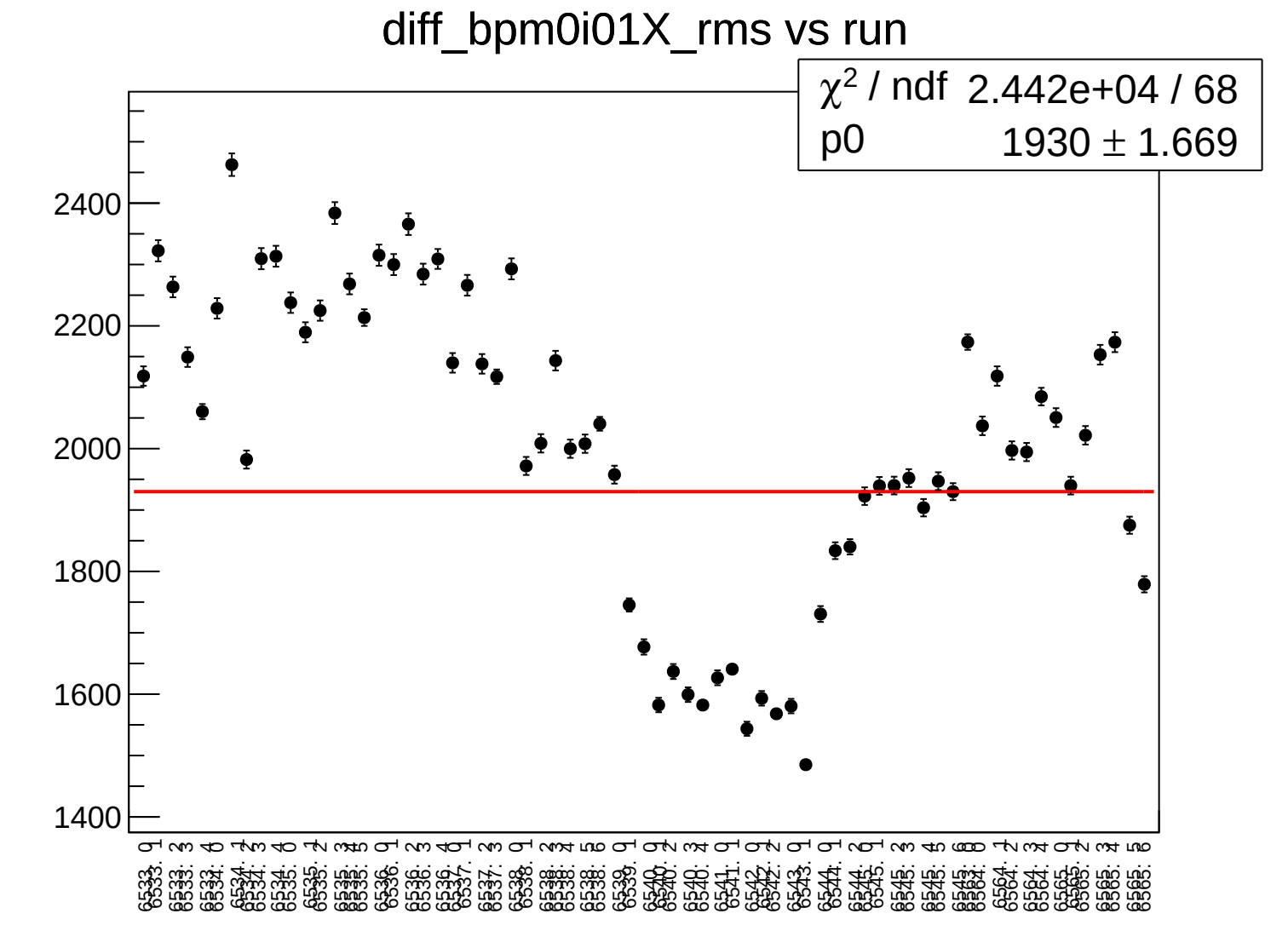

diff_cav4dY_mean vs run
$\chi^2$ / ndf 71.39 / 68
p0 0.4597 ± 0.3373
pull
Entries 69
Mean 15.36
Std Dev 113

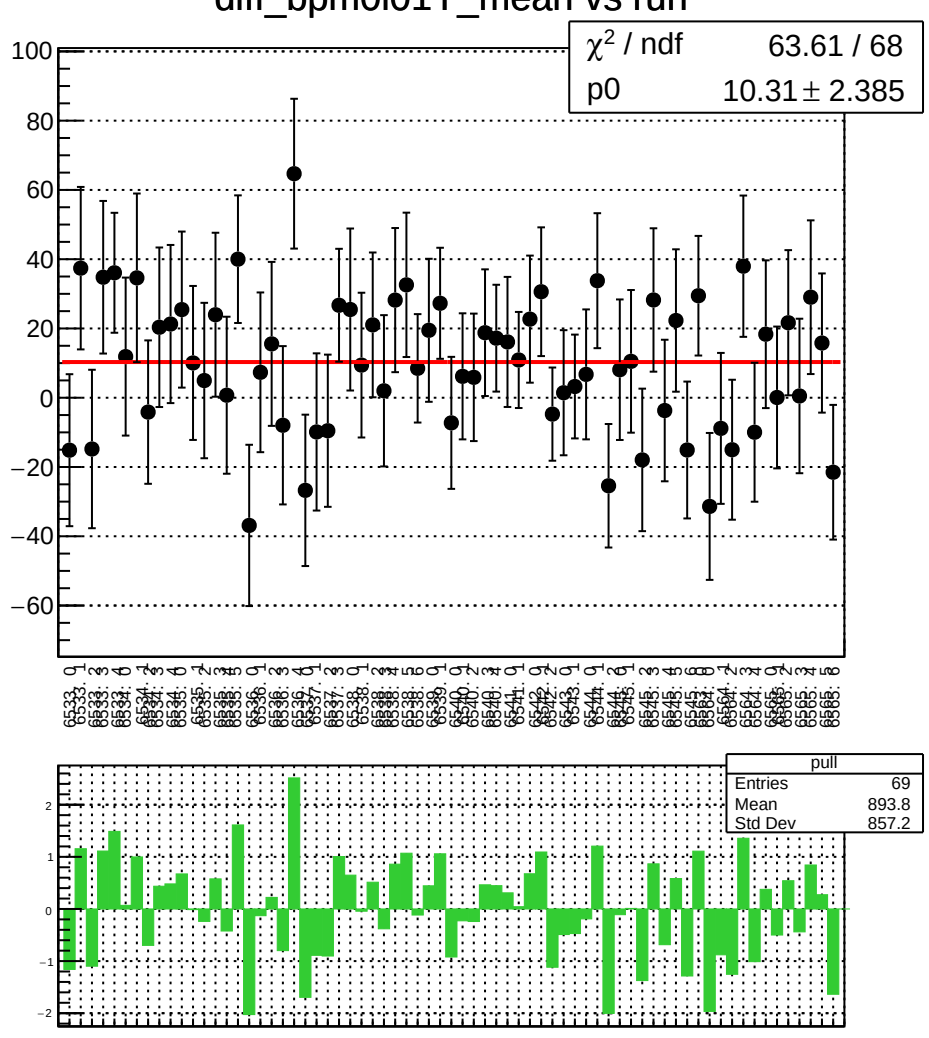

pull1D
Entries 69
Mean −0.004493
Std Dev 1.017

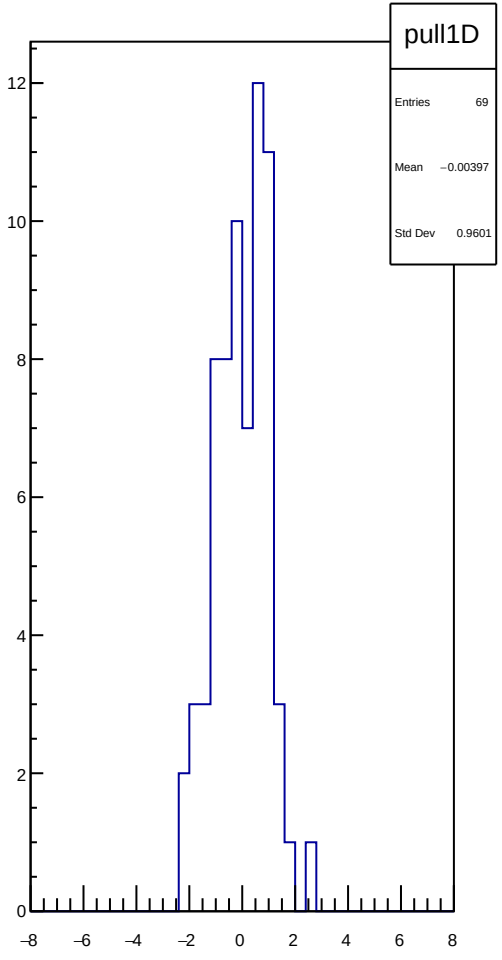

diff_cav4dY_rms vs run
χ² / ndf 1.287e+04 / 68
p0 277 ± 0.2385
320
300
280
260
240
220

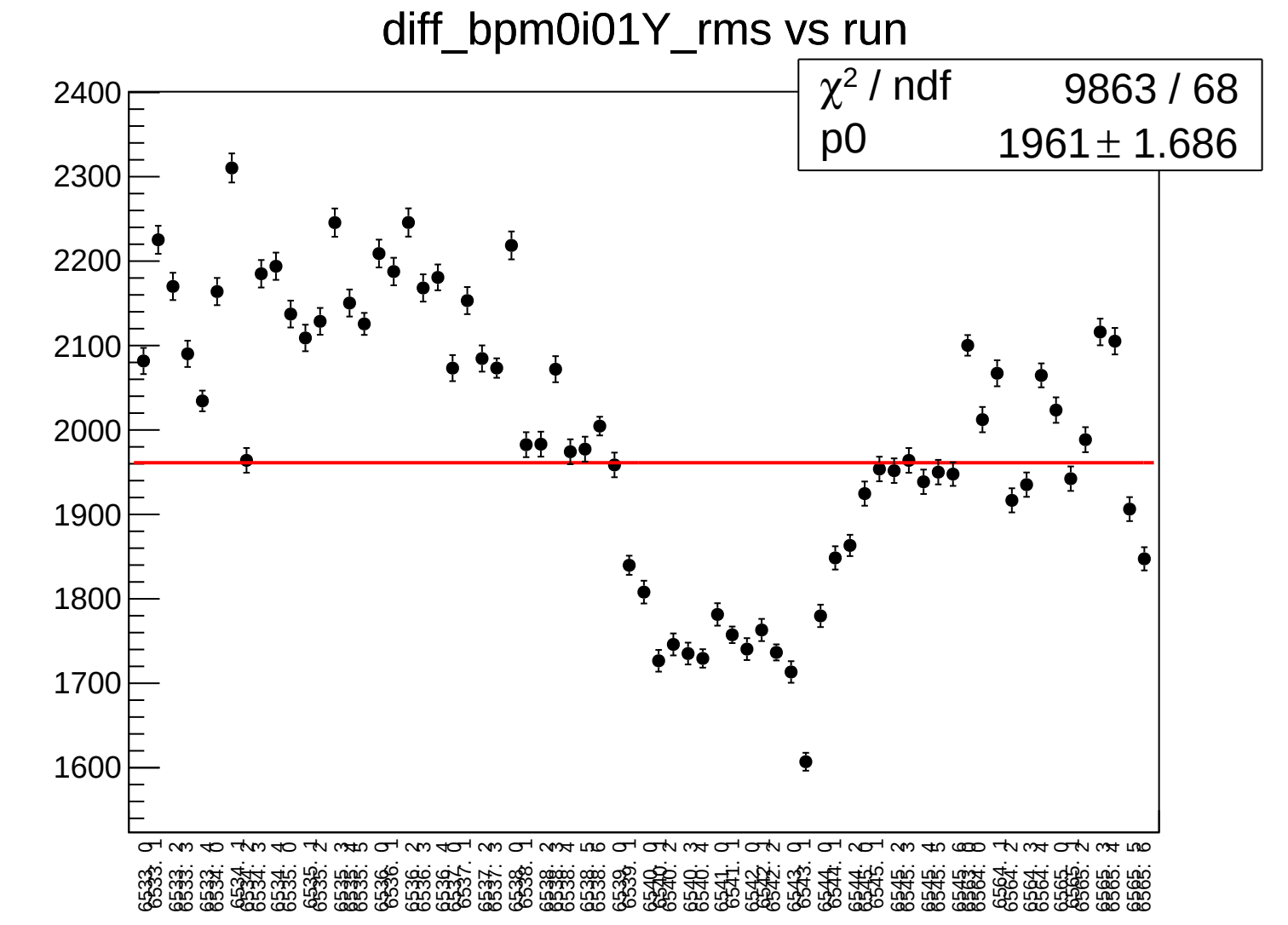

diff_bpm0i01X_mean vs run
χ² / ndf 73.5 / 68
p0 86.32 ± 2.36
pull
Entries 69
Mean −322.1
Std Dev 343.5

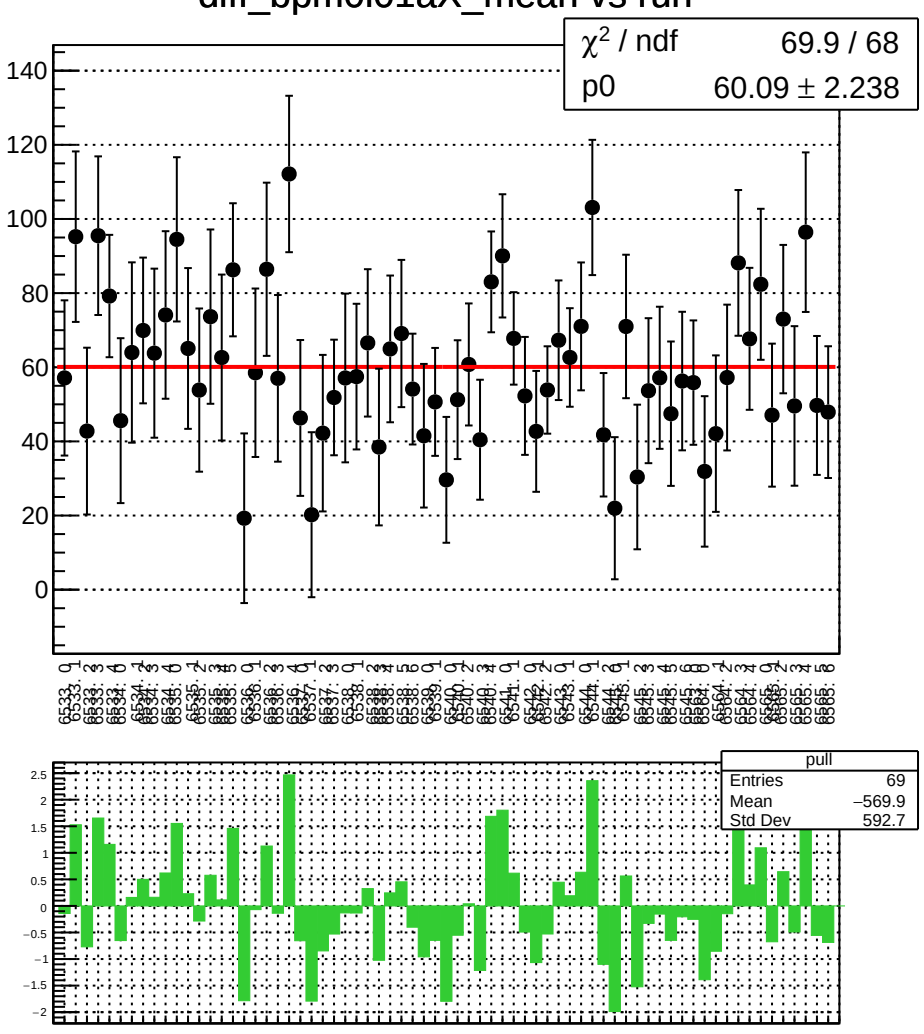

pull1D
Entries 69
Mean 0.007748
Std Dev 1.032

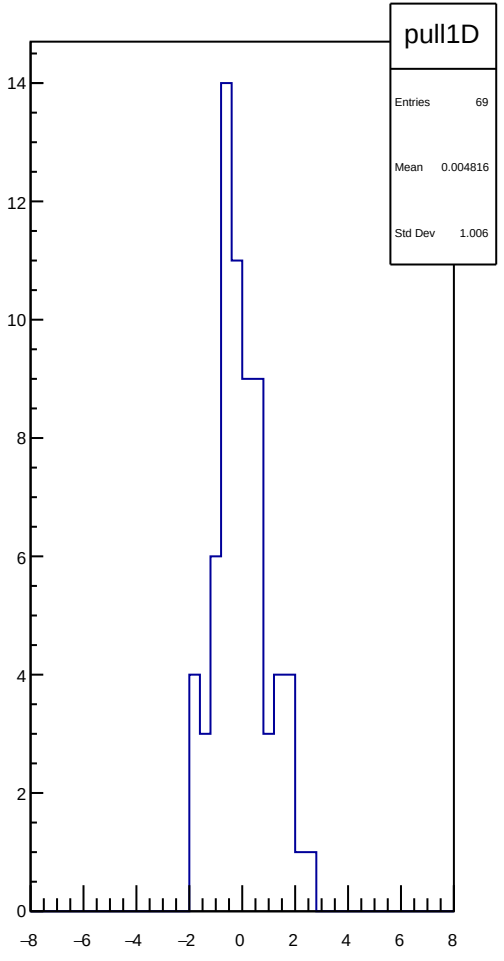

diff_bpm0i01X_rms vs run
χ² / ndf 2.442e+04 / 68
p0 1930 ± 1.669
2400
2200
2000
1800
1600
1400

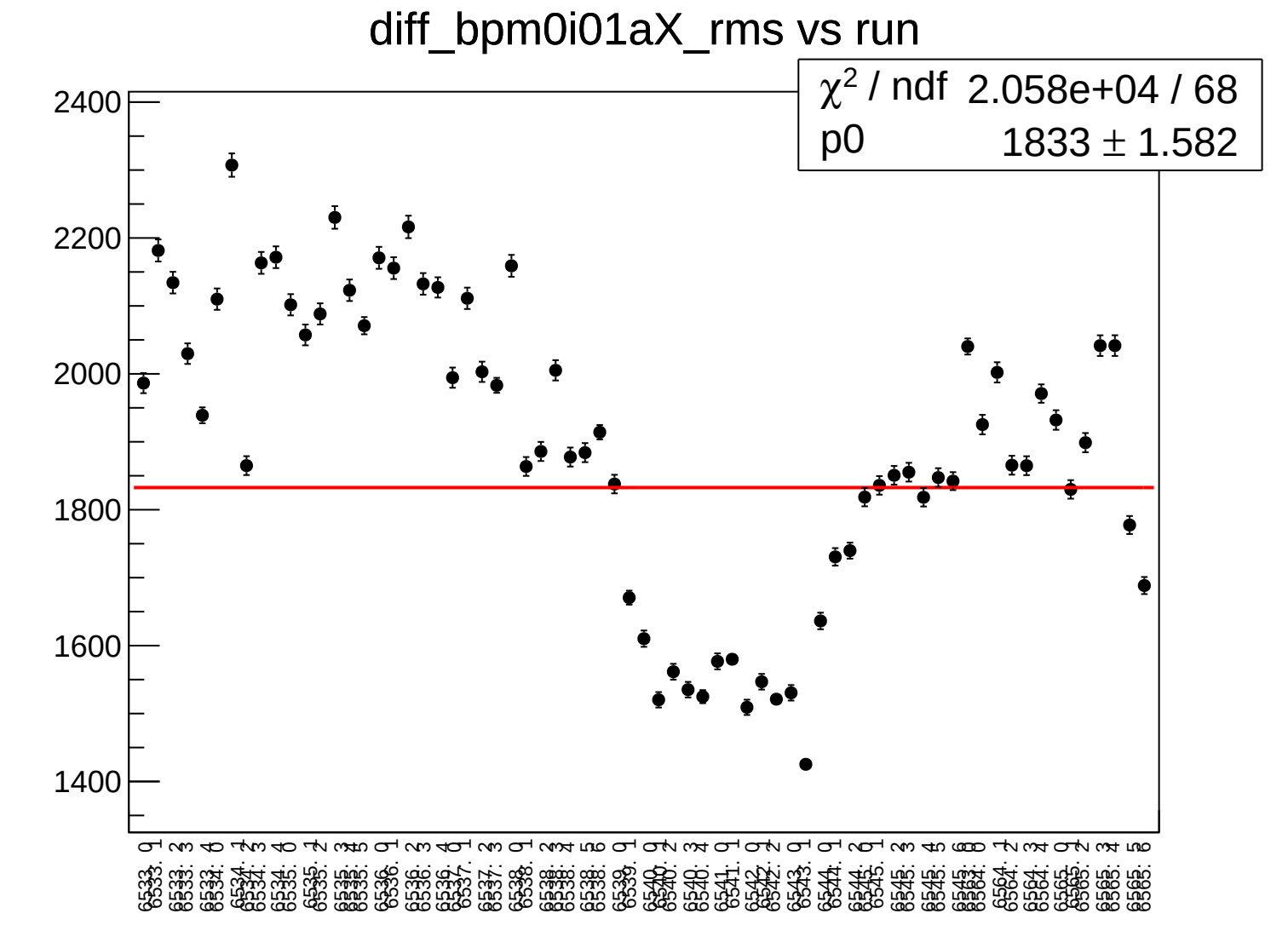

diff_bpm0i01Y_mean vs run
$\chi^2$ / ndf 63.61 / 68
p0 10.31 ± 2.385
pull
Entries 69
Mean 893.8
Std Dev 857.2

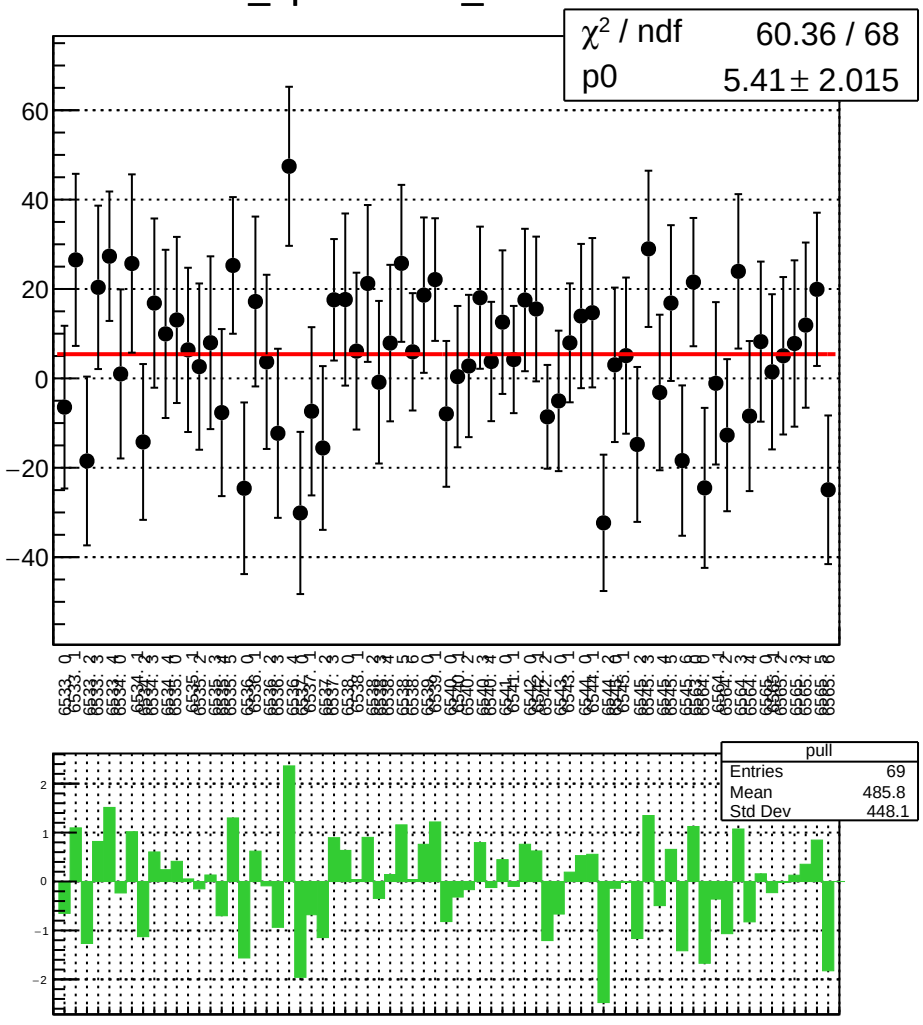

pull1D
Entries 69
Mean −0.00397
Std Dev 0.9601

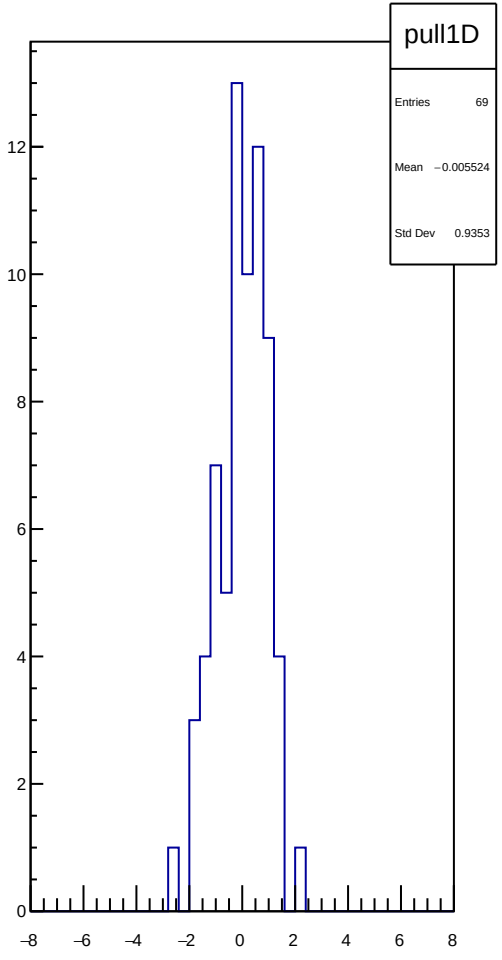

diff_bpm0i01Y_rms vs run
χ² / ndf 9863 / 68
p0 1961 ± 1.686
2400
2300
2200
2100
2000
1900
1800
1700
1600

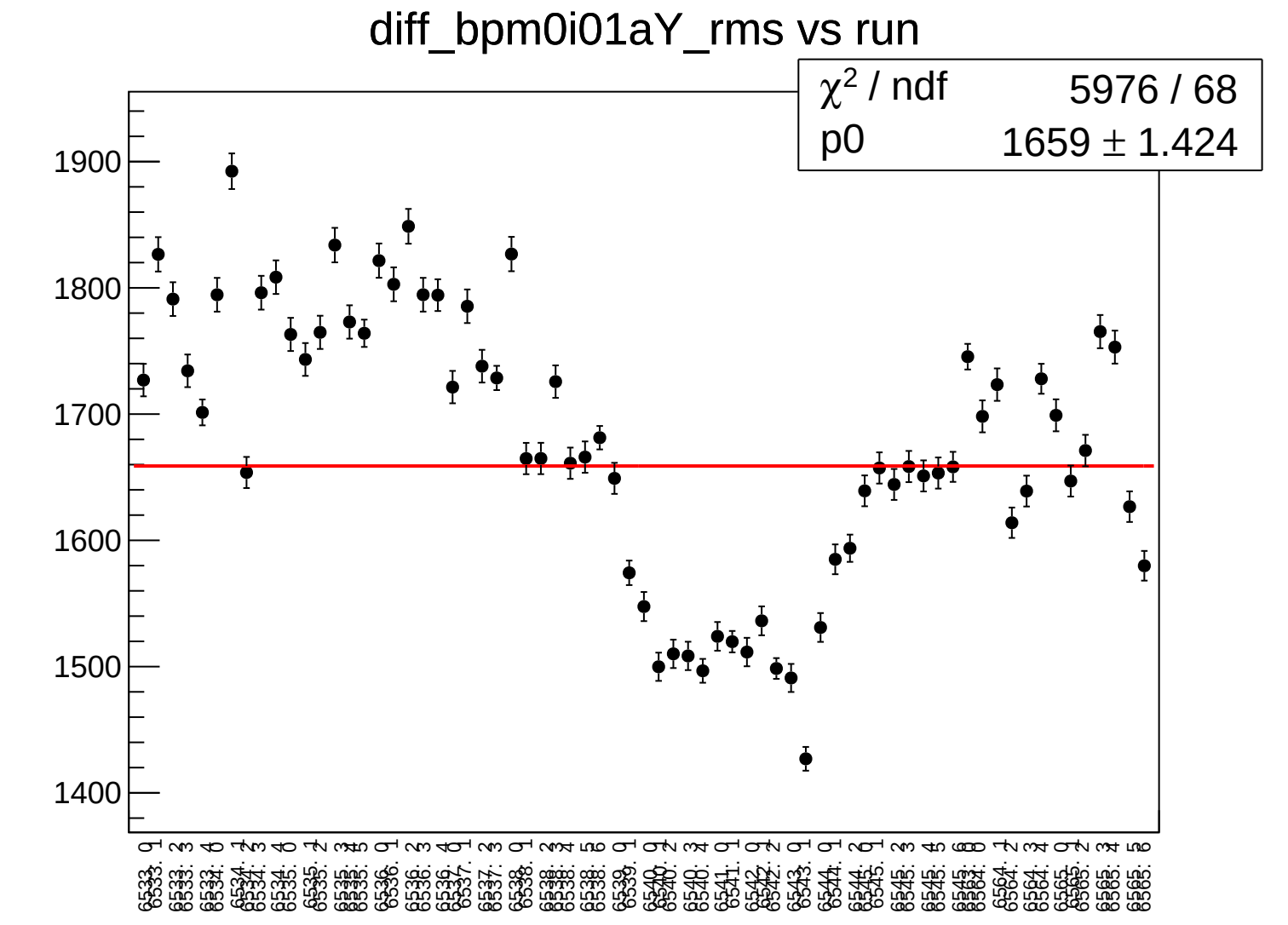

diff_bpm0i01aX_mean vs run
$\chi^2$ / ndf 69.9 / 68
p0 60.09 ± 2.238
pull
Entries 69
Mean −569.9
Std Dev 592.7

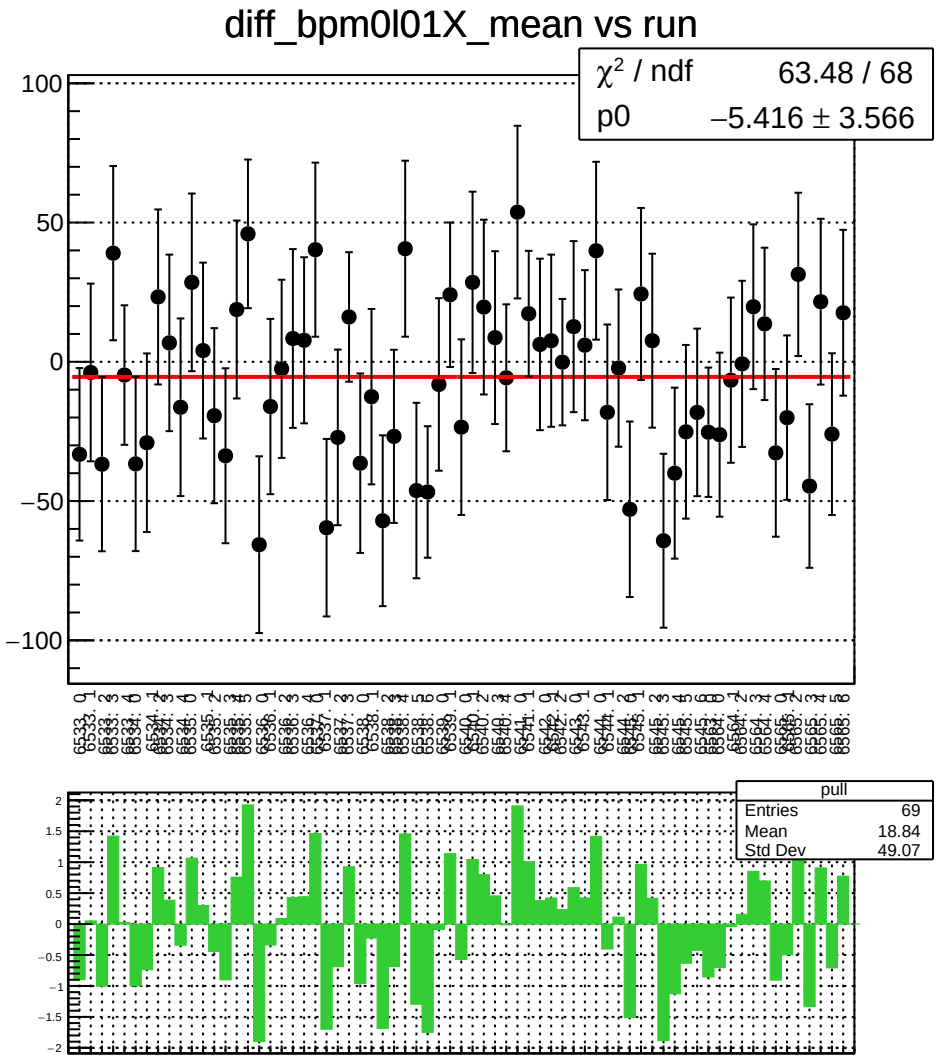

pull1D
Entries 69
Mean 0.004816
Std Dev 1.006

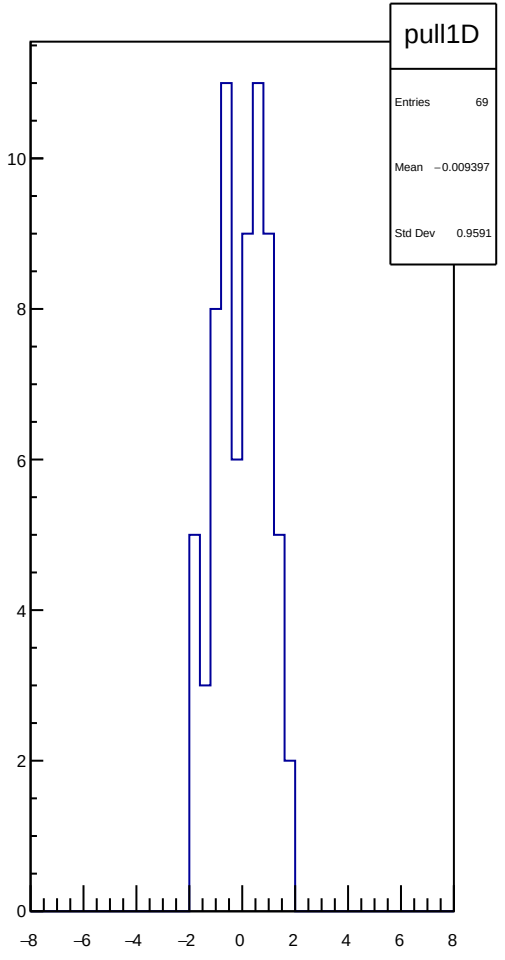

diff_bpm0i01aX_rms vs run
χ² / ndf 2.058e+04 / 68
p0 1833 ± 1.582
2400
2200
2000
1800
1600
1400

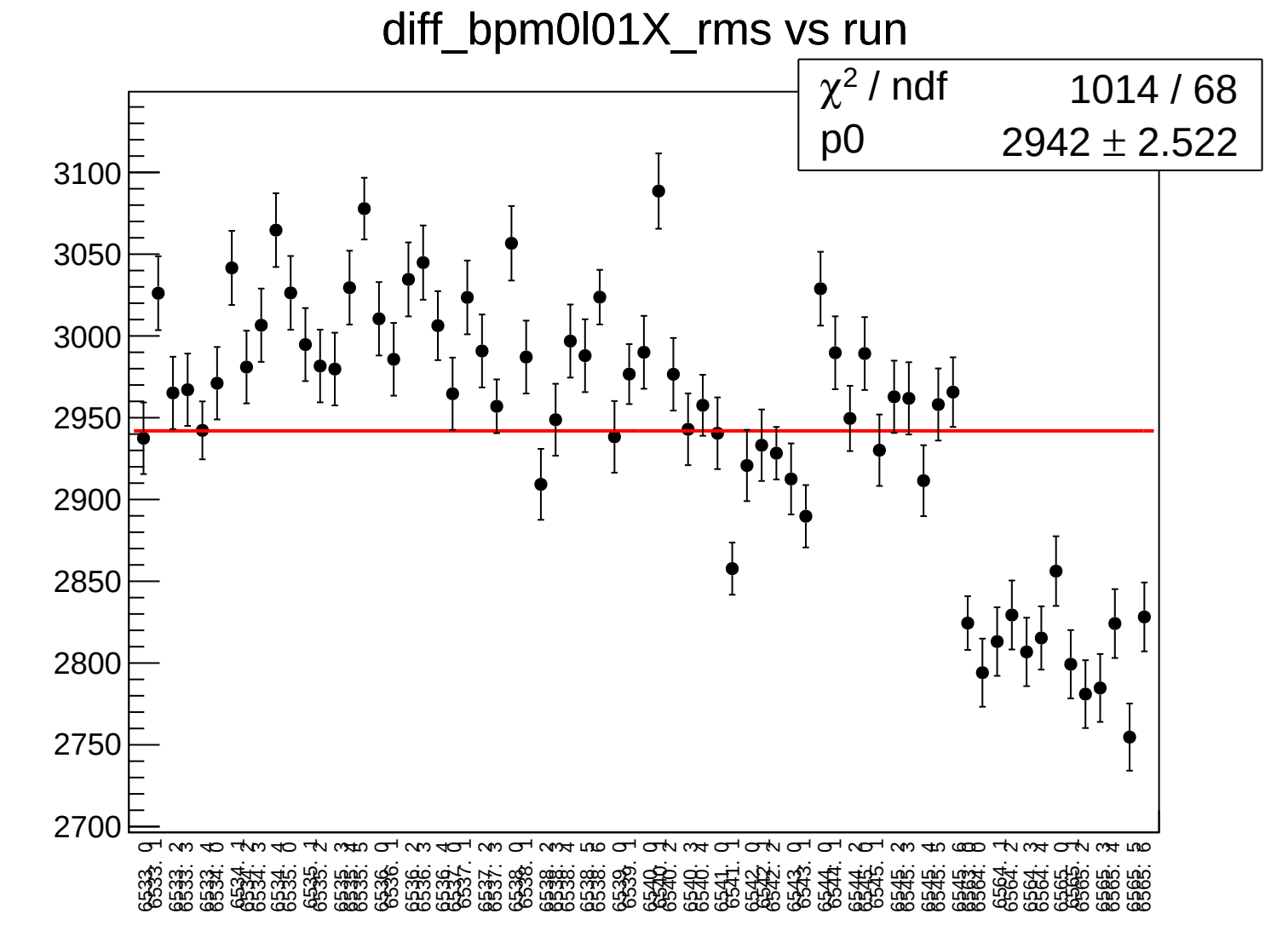

diff_bpm0i01aY_mean vs run
χ² / ndf 60.36 / 68
p0 5.41 ± 2.015
pull
Entries 69
Mean 485.8
Std Dev 448.1

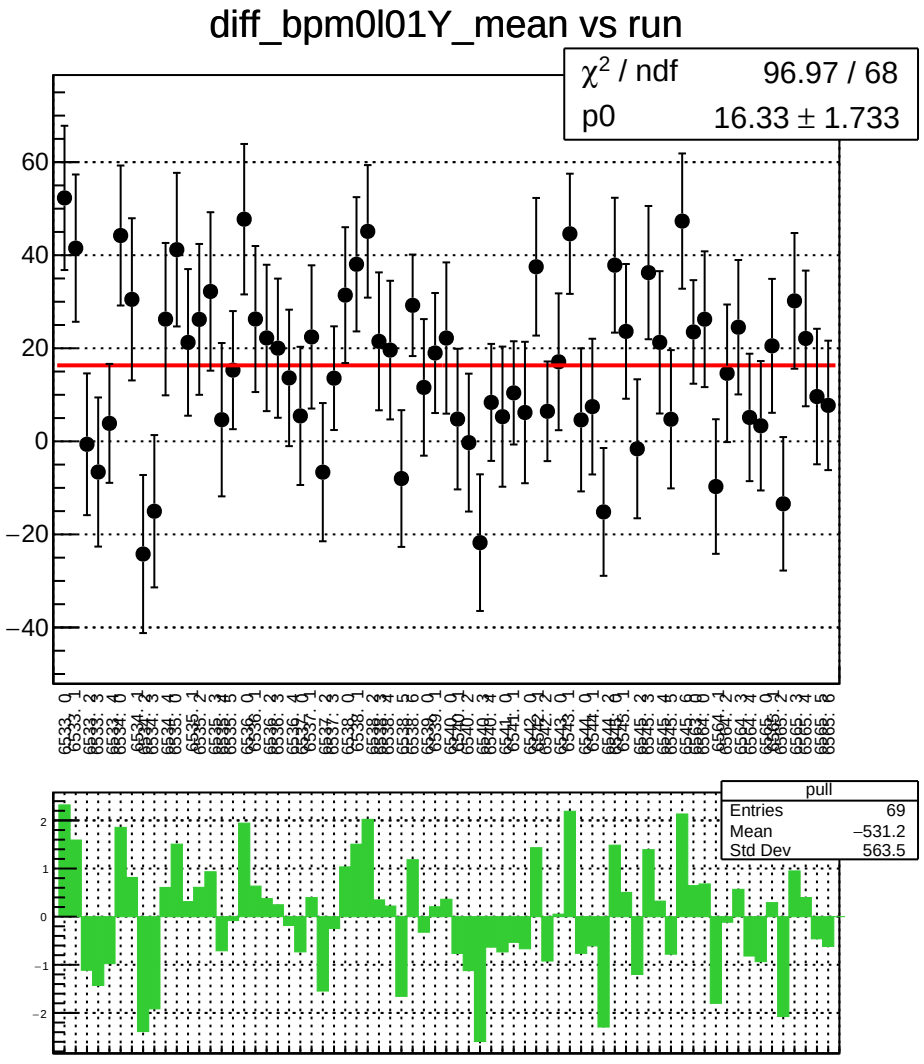

pull1D
Entries 69
Mean −0.005524
Std Dev 0.9353

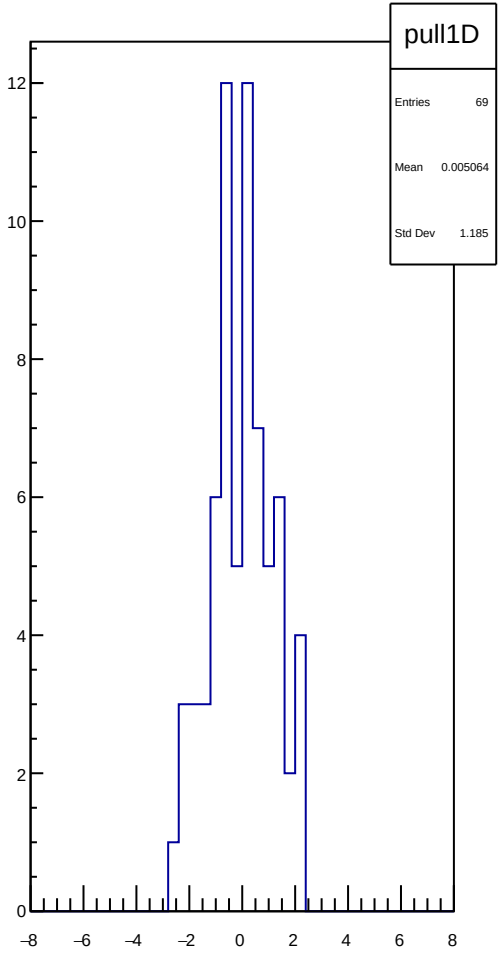

diff_bpm0i01aY_rms vs run
χ² / ndf 5976 / 68
p0 1659 ± 1.424
1900
1800
1700
1600
1500
1400

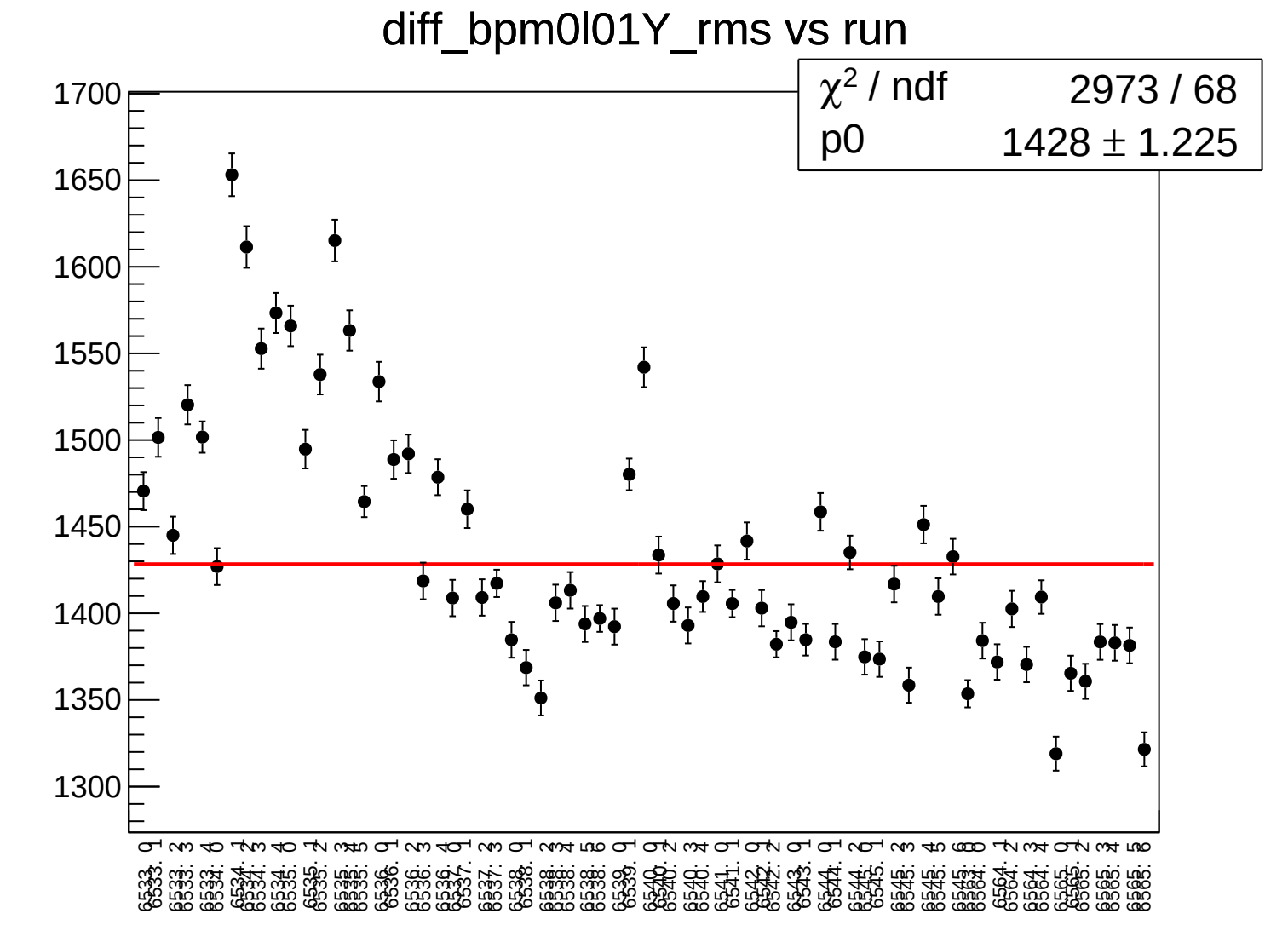

diff_bpm0l01X_mean vs run
χ² / ndf 63.48 / 68
p0 −5.416 ± 3.566
pull
Entries 69
Mean 18.84
Std Dev 49.07

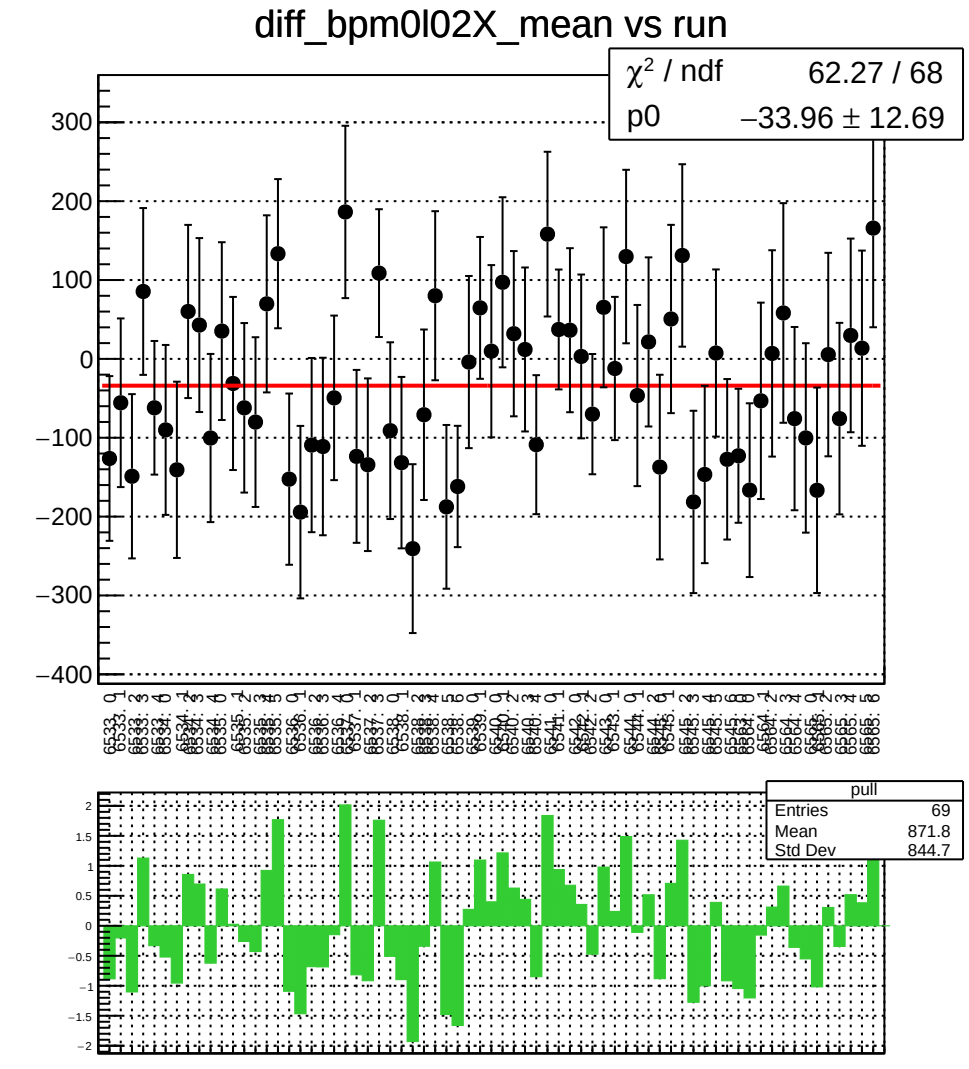

pull1D
Entries 69
Mean −0.009397
Std Dev 0.9591

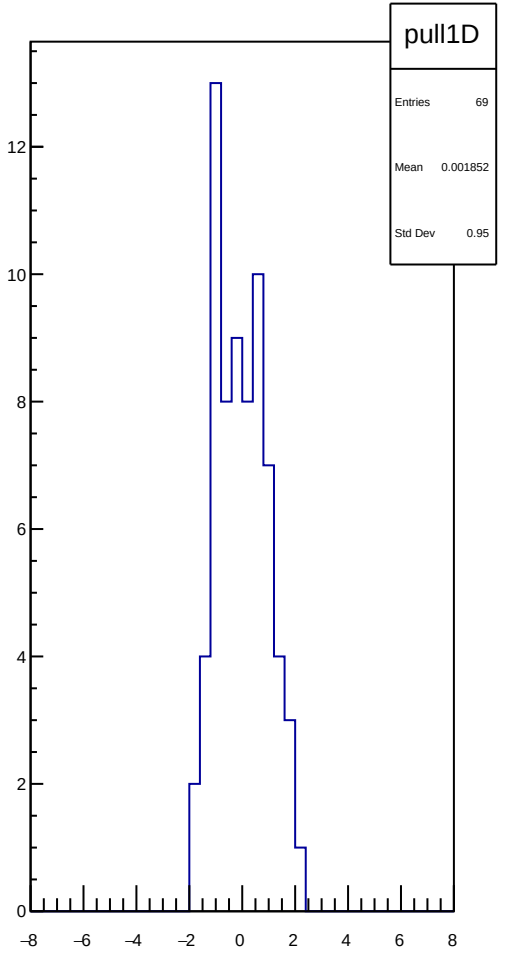

diff_bpm0l01X_rms vs run
χ² / ndf 1014 / 68
p0 2942 ± 2.522
3100
3050
3000
2950
2900
2850
2800
2750
2700


diff_bpm0l01Y_mean vs run
χ² / ndf 96.97 / 68
p0 16.33 ± 1.733
pull
Entries 69
Mean −531.2
Std Dev 563.5

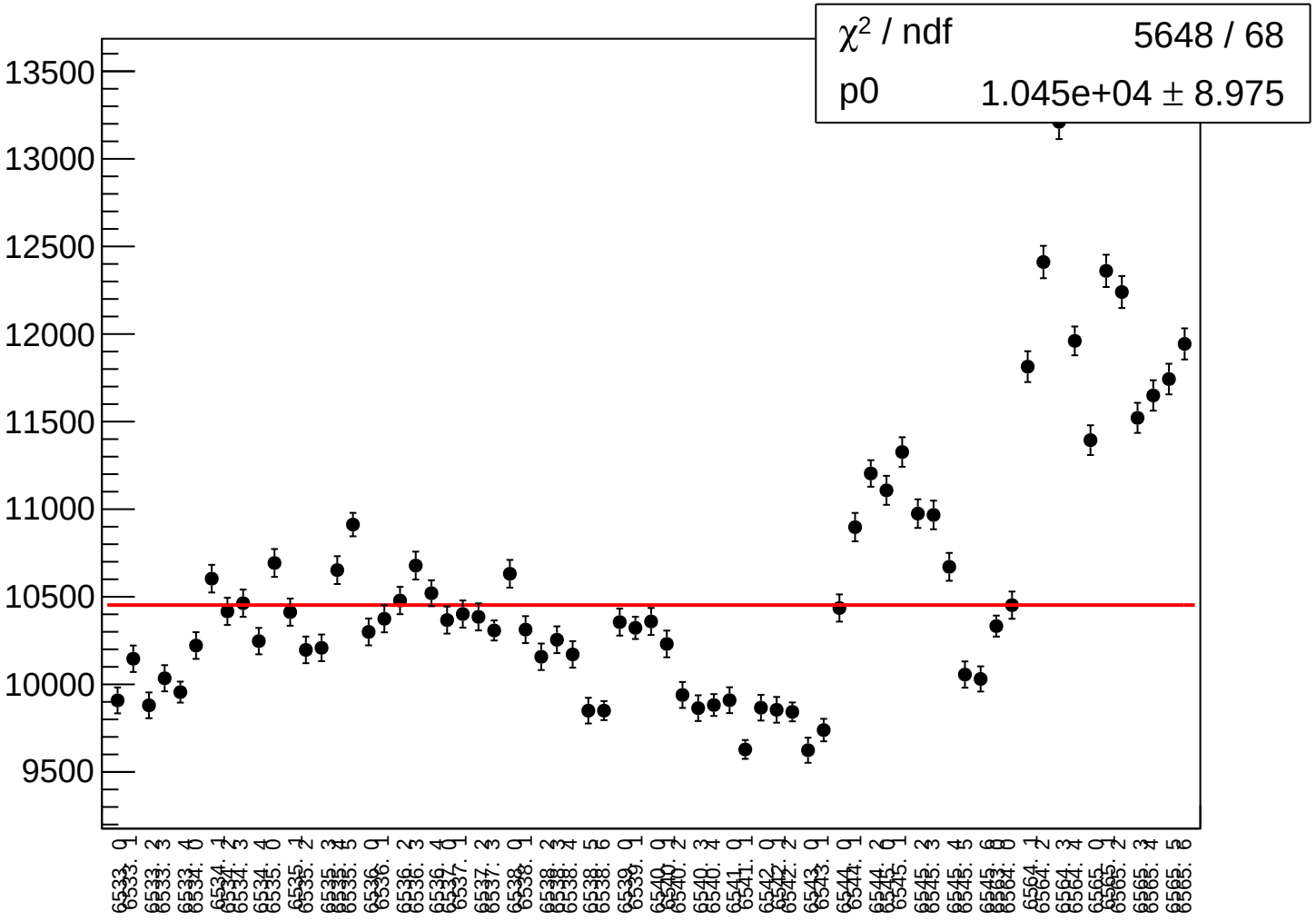

pull1D
Entries 69
Mean 0.005064
Std Dev 1.185

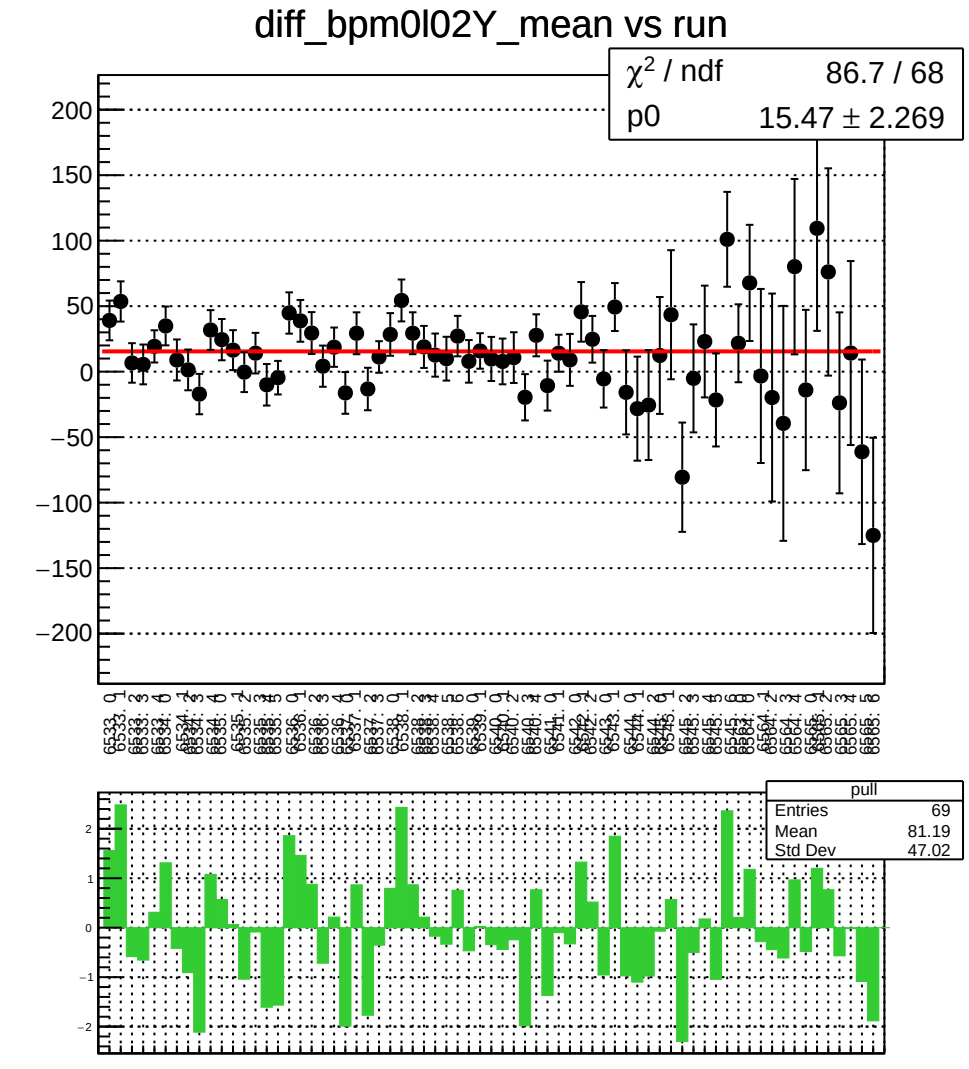

diff_bpm0l01Y_rms vs run
χ² / ndf 2973 / 68
p0 1428 ± 1.225
1700
1650
1600
1550
1500
1450
1400
1350
1300

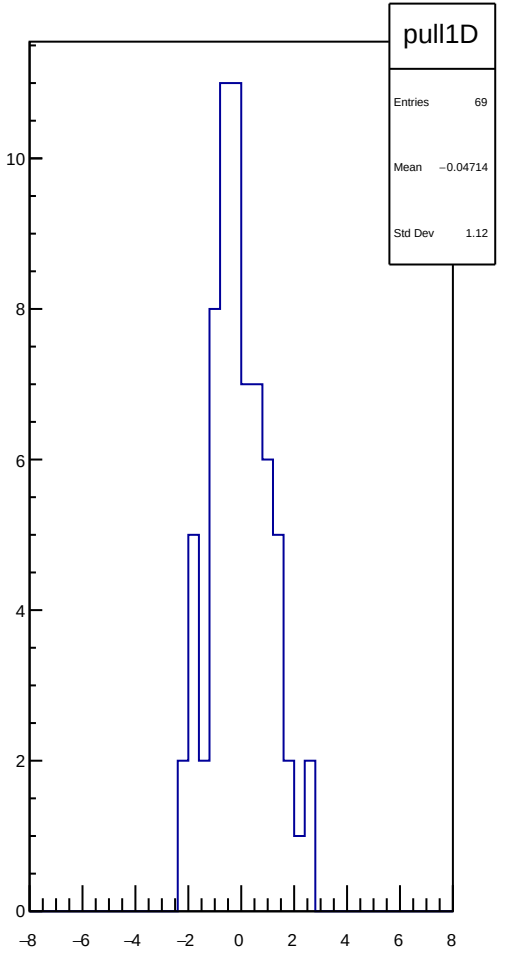

diff_bpm0l02X_mean vs run
χ² / ndf 62.27 / 68
p0 −33.96 ± 12.69
pull
Entries 69
Mean 871.8
Std Dev 844.7

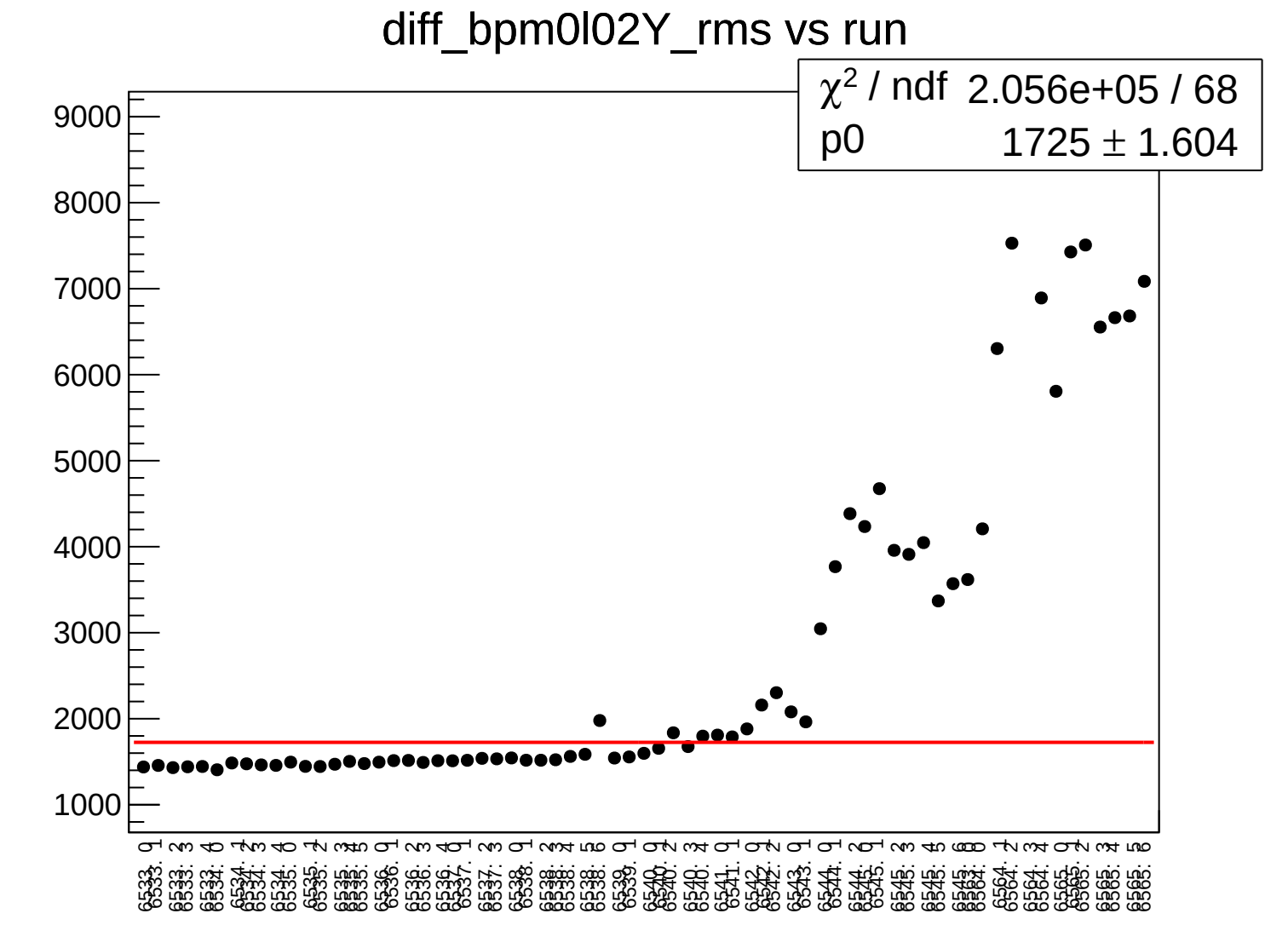

pull1D
Entries 69
Mean 0.001852
Std Dev 0.95

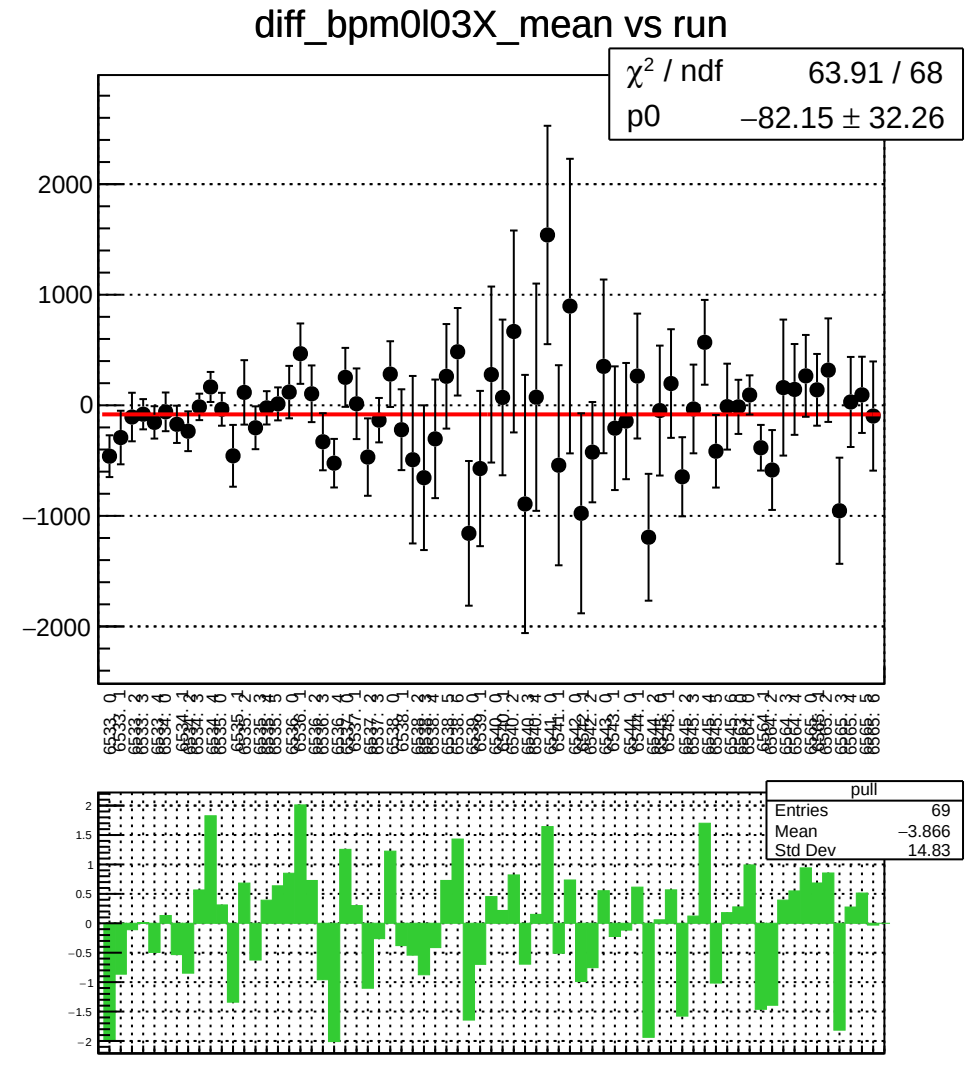
# diff_bpm0l02X_rms vs run

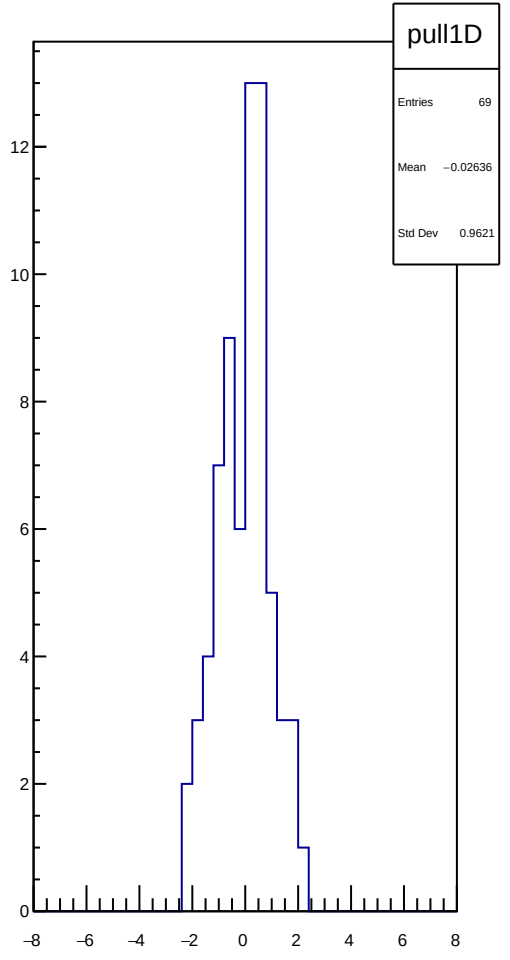


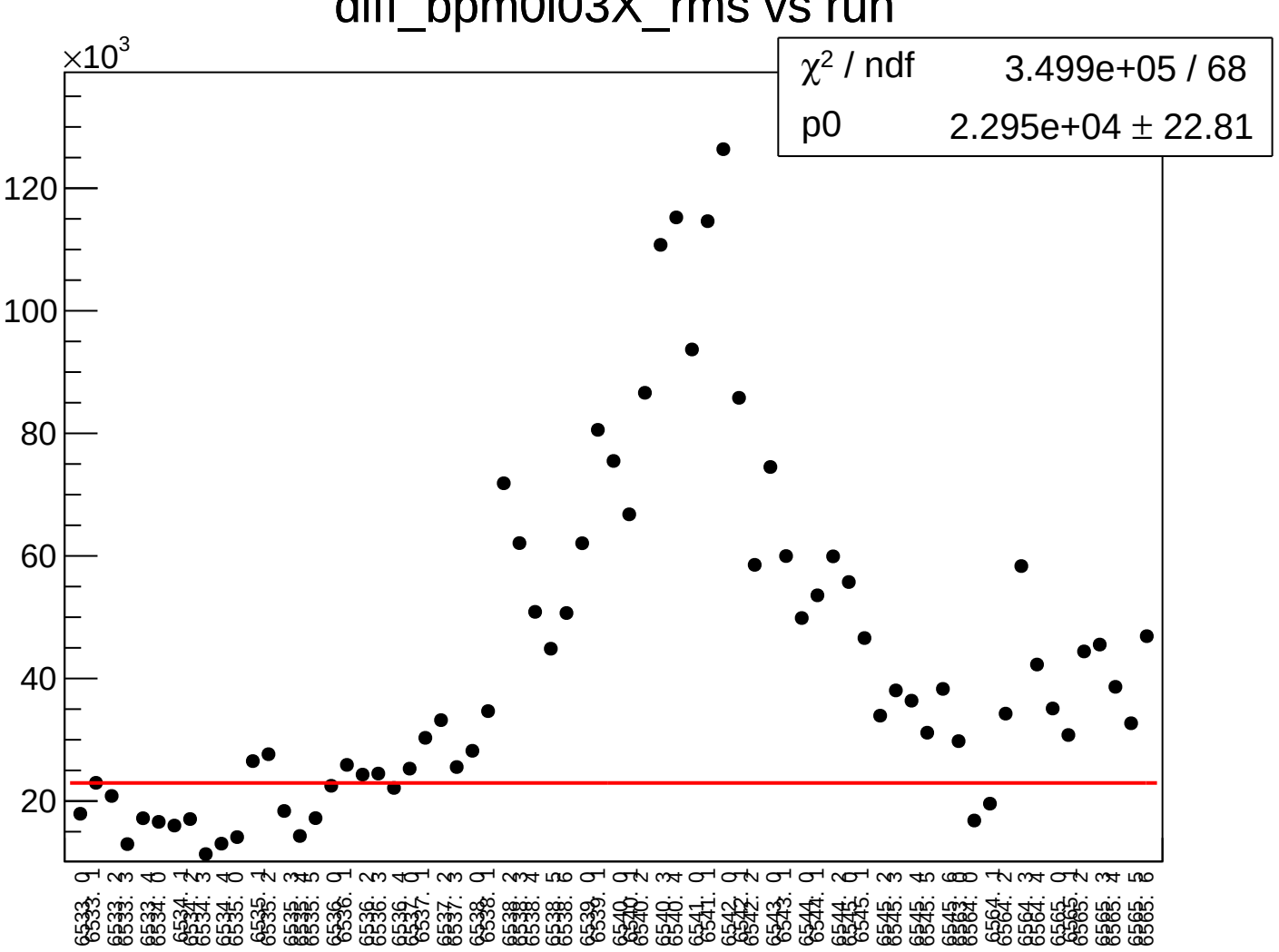

diff_bpm0l02Y_mean vs run
χ² / ndf 86.7 / 68
p0 15.47 ± 2.269
pull
Entries 69
Mean 81.19
Std Dev 47.02

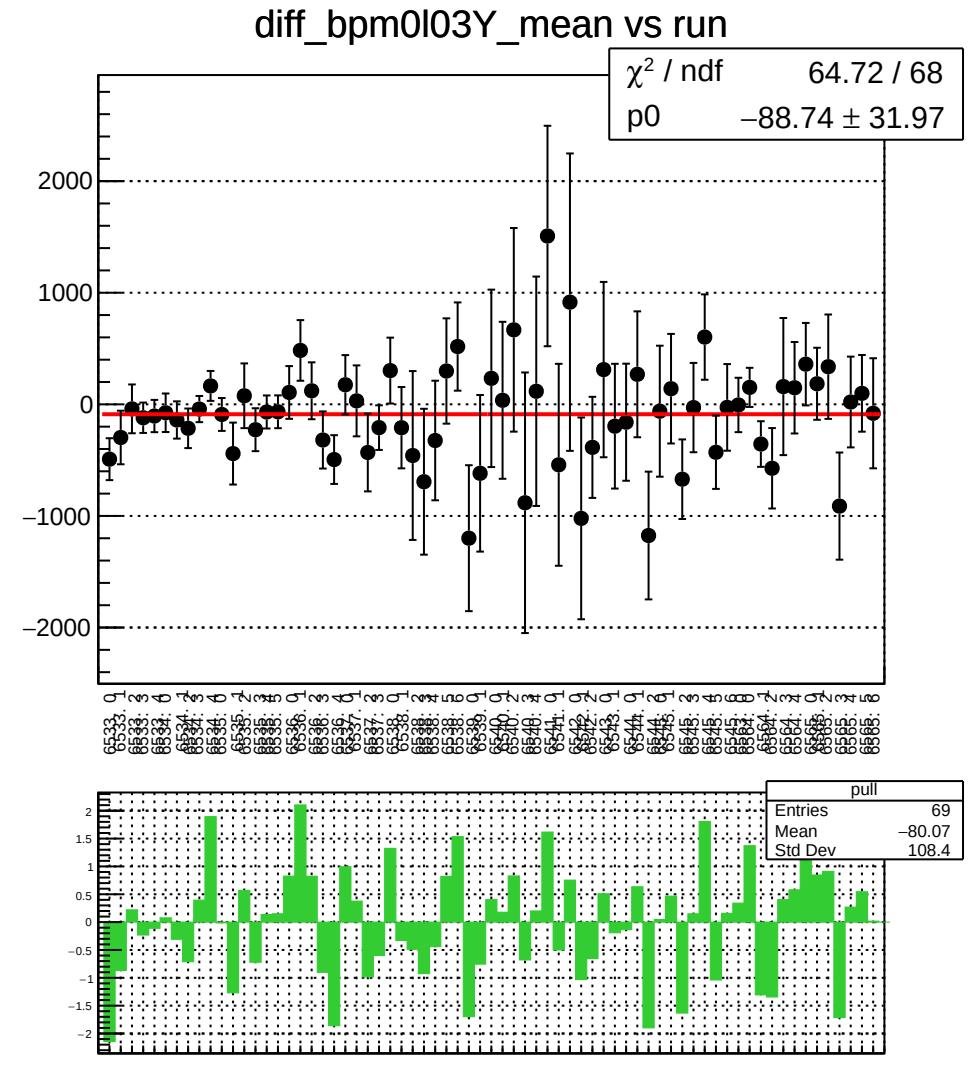

pull1D
Entries 69
Mean −0.04714
Std Dev 1.12

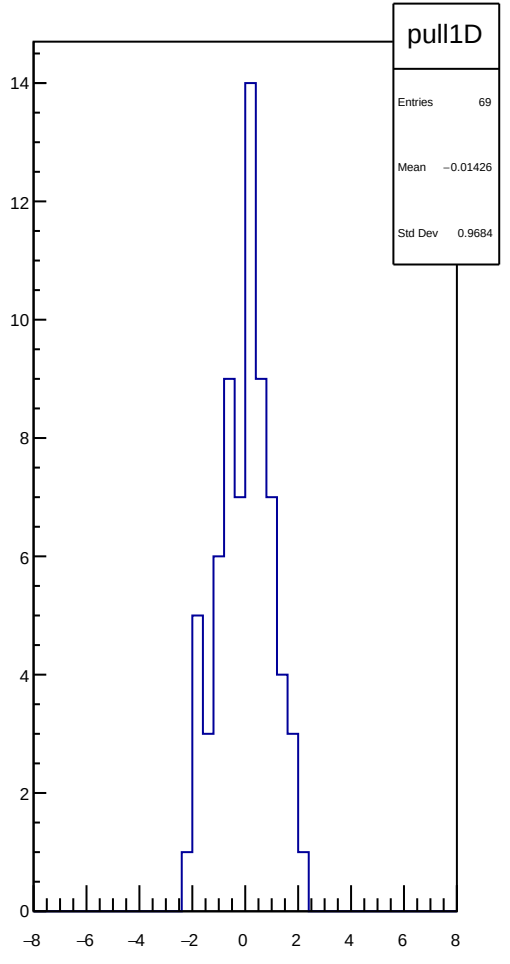

diff_bpm0l02Y_rms vs run
χ² / ndf 2.056e+05 / 68
p0 1725 ± 1.604
9000
8000
7000
6000
5000
4000
3000
2000
1000

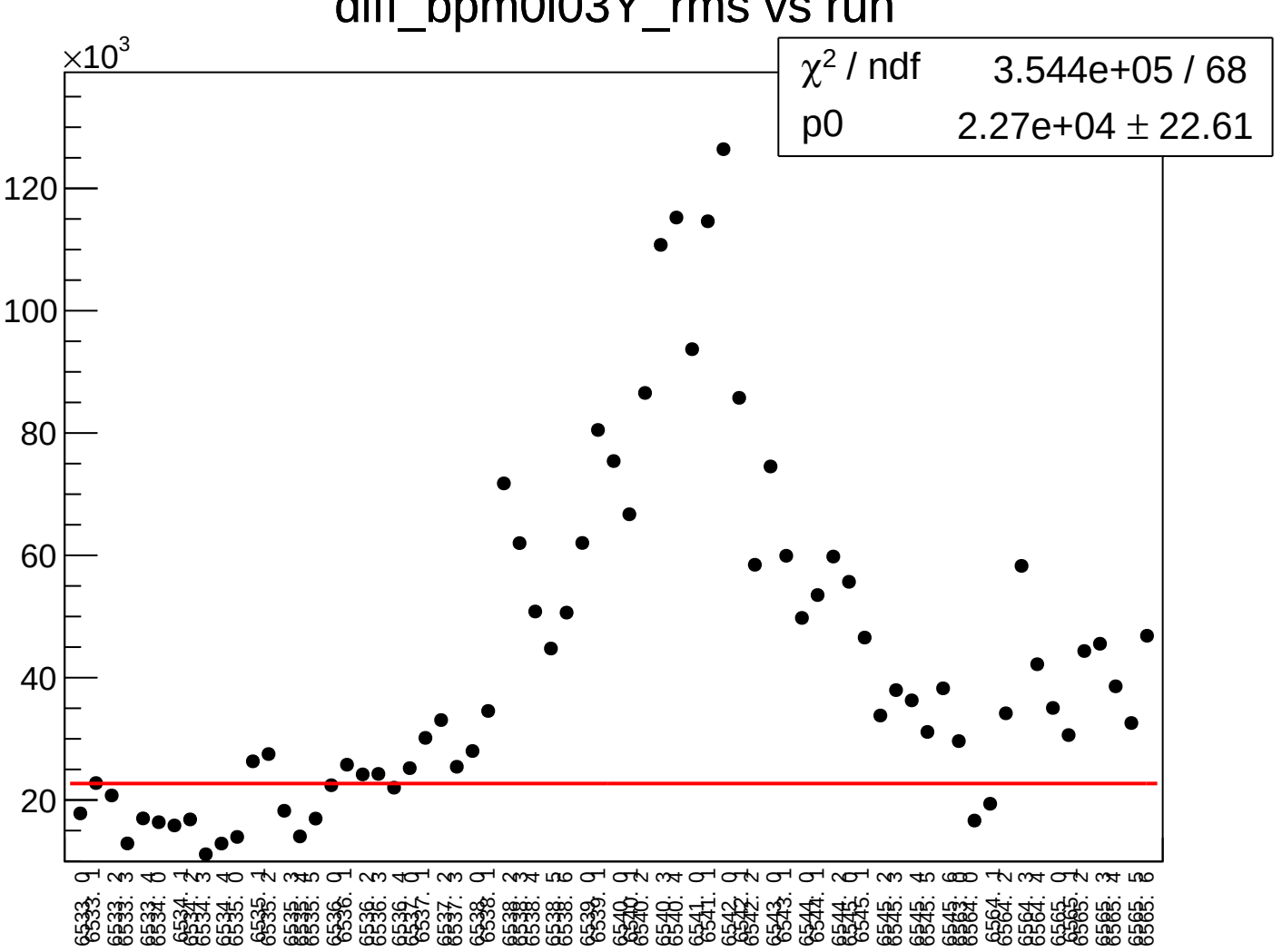

diff_bpm0l03X_mean vs run
χ² / ndf 63.91 / 68
p0 −82.15 ± 32.26
2000
1000
0
−1000
−2000
pull
Entries 69
Mean −3.866
Std Dev 14.83
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

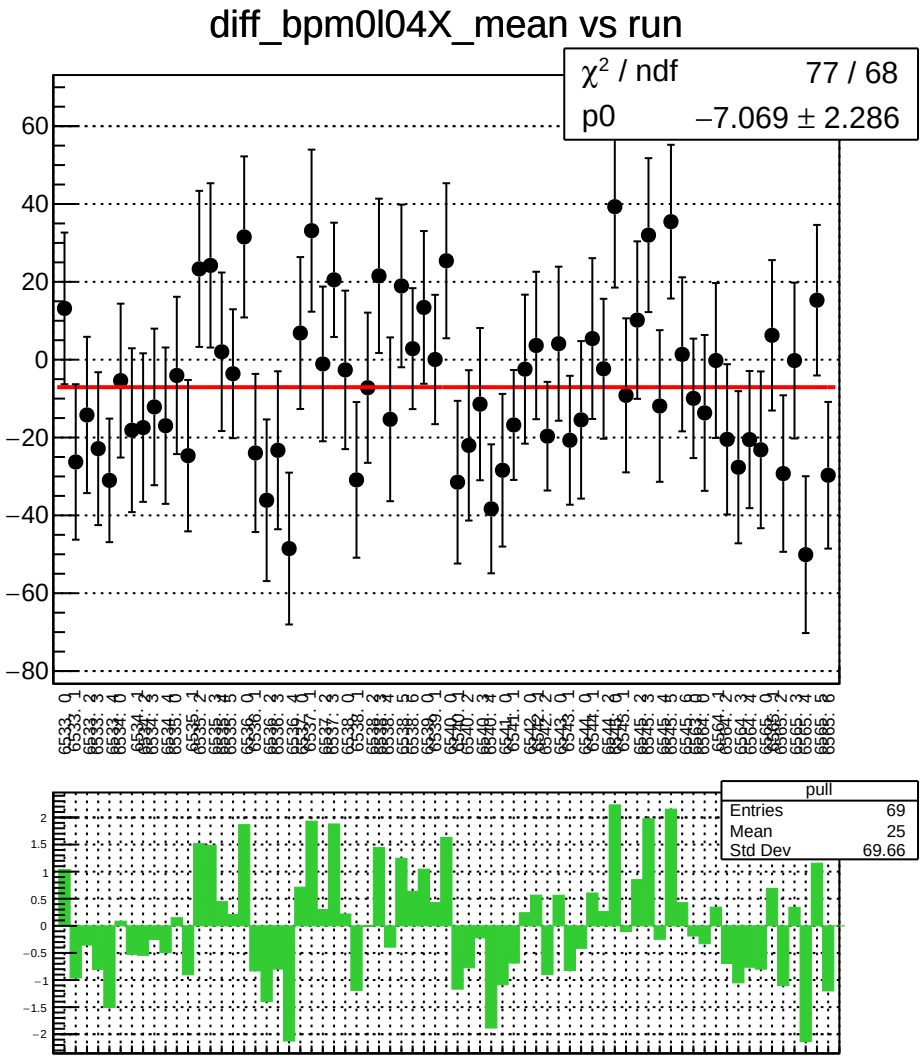

pull1D
Entries 69
Mean −0.02636
Std Dev 0.9621
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

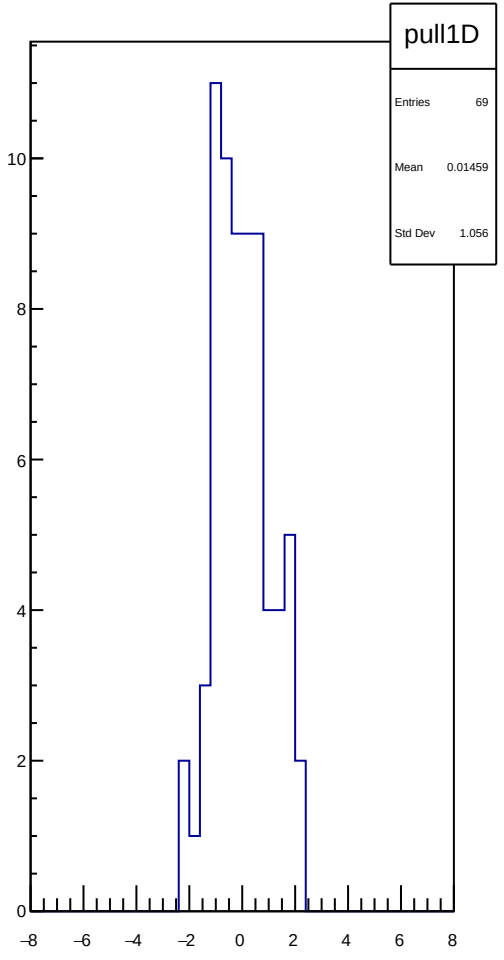

diff_bpm0l03X_rms vs run
×10^3
χ² / ndf 3.499e+05 / 68
p0 2.295e+04 ± 22.81
120
100
80
60
40
20

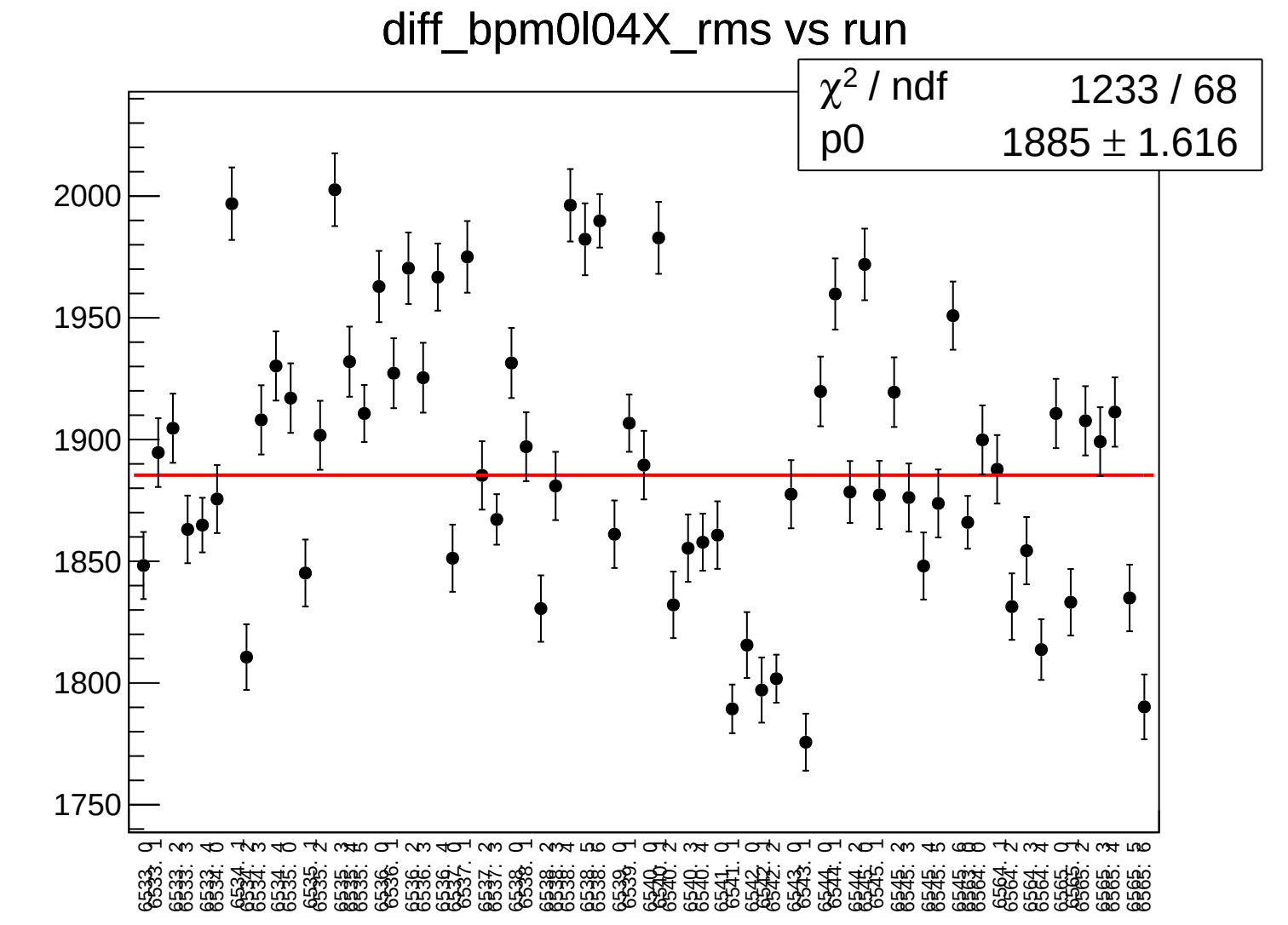

diff_bpm0l03Y_mean vs run
χ² / ndf 64.72 / 68
p0 −88.74 ± 31.97
2000
1000
0
−1000
−2000
pull
Entries 69
Mean −80.07
Std Dev 108.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

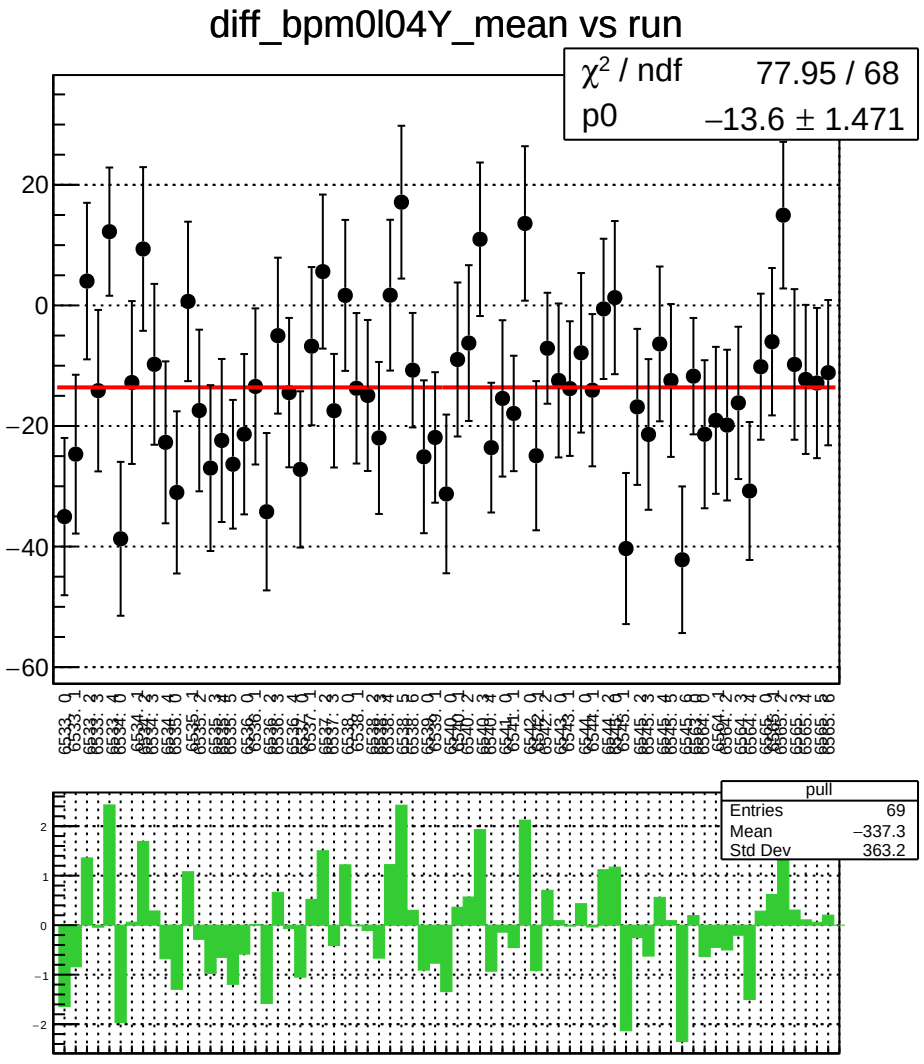

pull1D
Entries 69
Mean −0.01426
Std Dev 0.9684
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

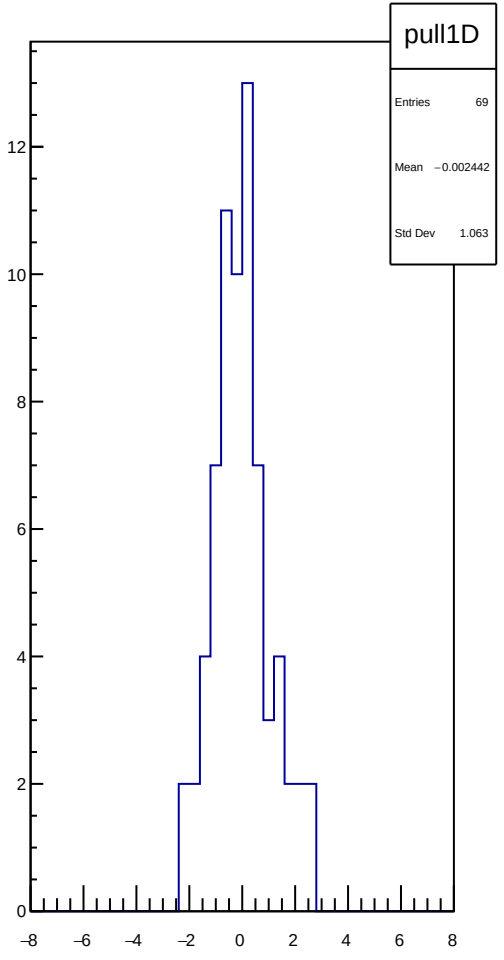

diff_bpm0l03Y_rms vs run
×10^3
χ² / ndf 3.544e+05 / 68
p0 2.27e+04 ± 22.61
120
100
80
60
40
20

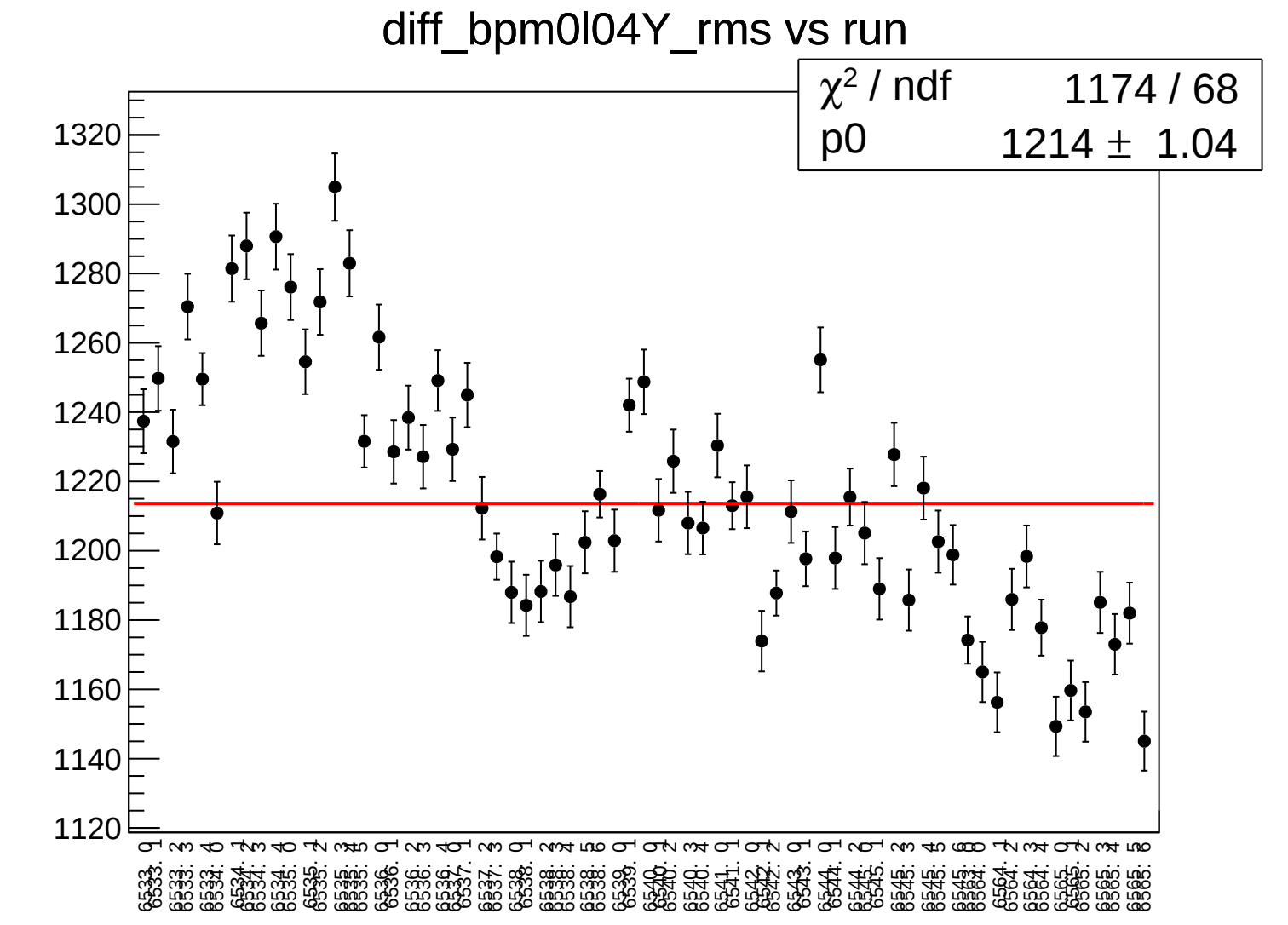

diff_bpm0l04X_mean vs run
χ² / ndf 77 / 68
p0 −7.069 ± 2.286
pull
Entries 69
Mean 25
Std Dev 69.66

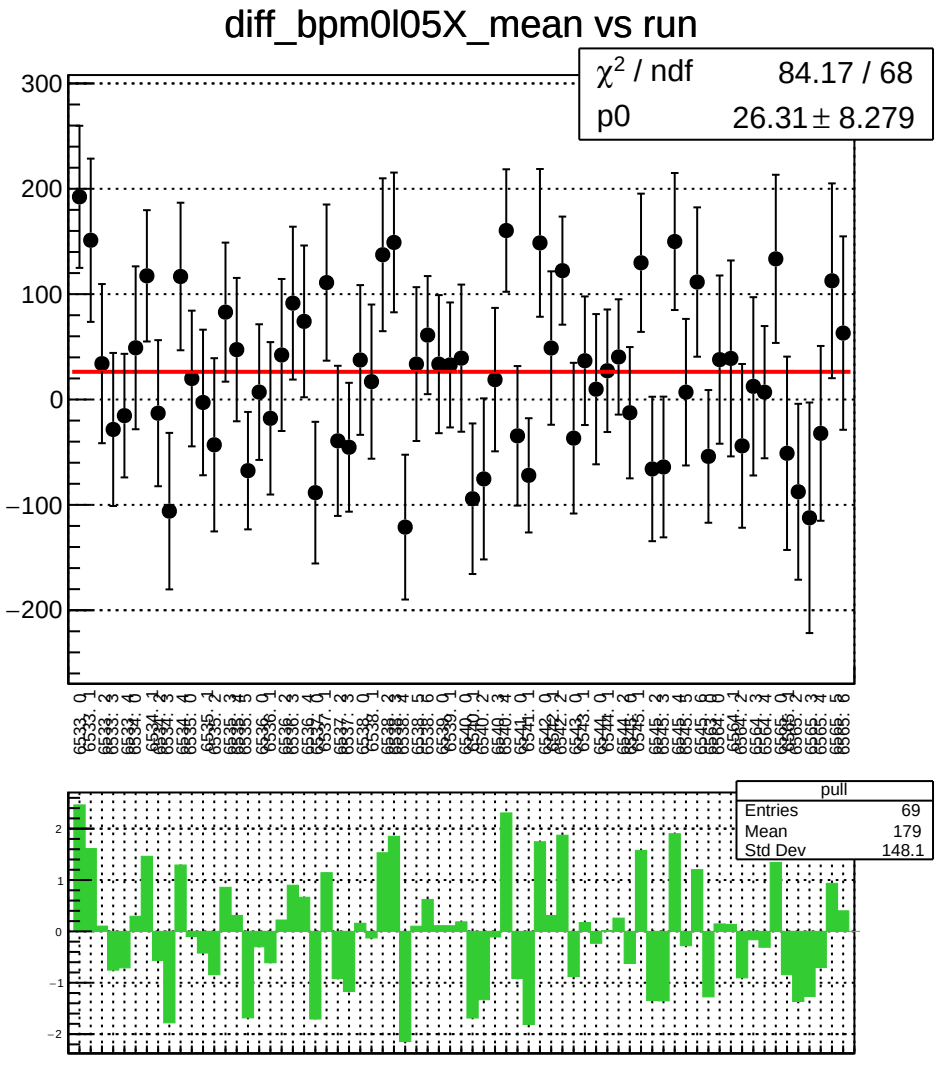

pull1D
Entries 69
Mean 0.01459
Std Dev 1.056

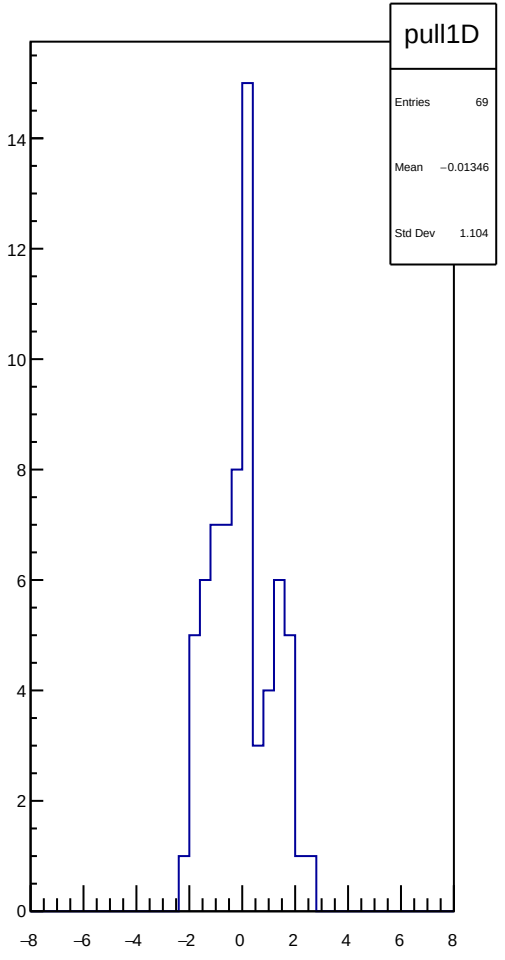

diff_bpm0l04X_rms vs run
χ² / ndf 1233 / 68
p0 1885 ± 1.616
2000
1950
1900
1850
1800
1750

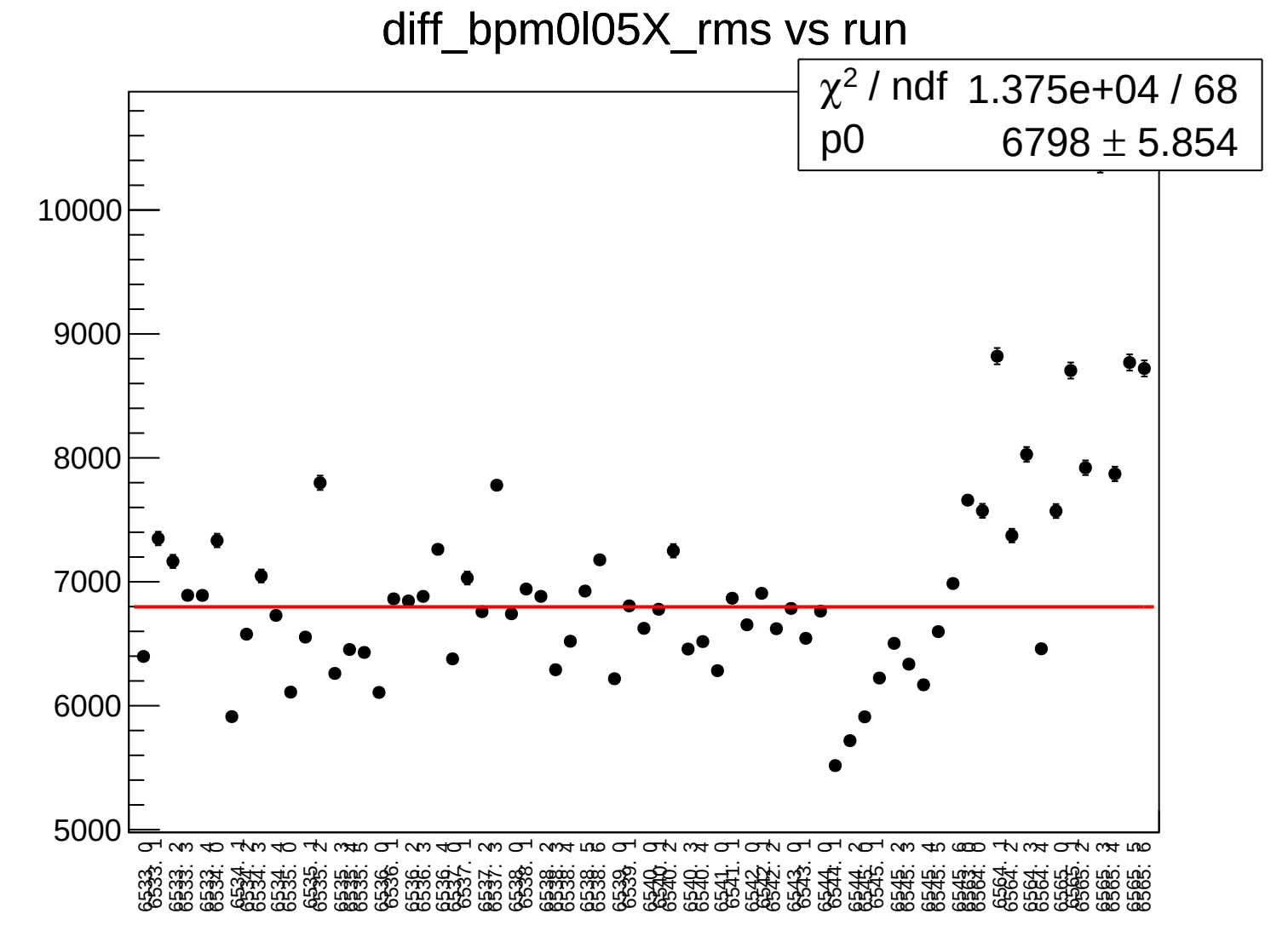

diff_bpm0l04Y_mean vs run
χ² / ndf 77.95 / 68
p0 −13.6 ± 1.471
20
0
−20
−40
−60
pull
Entries 69
Mean −337.3
Std Dev 363.2
2
1
0
−1
−2

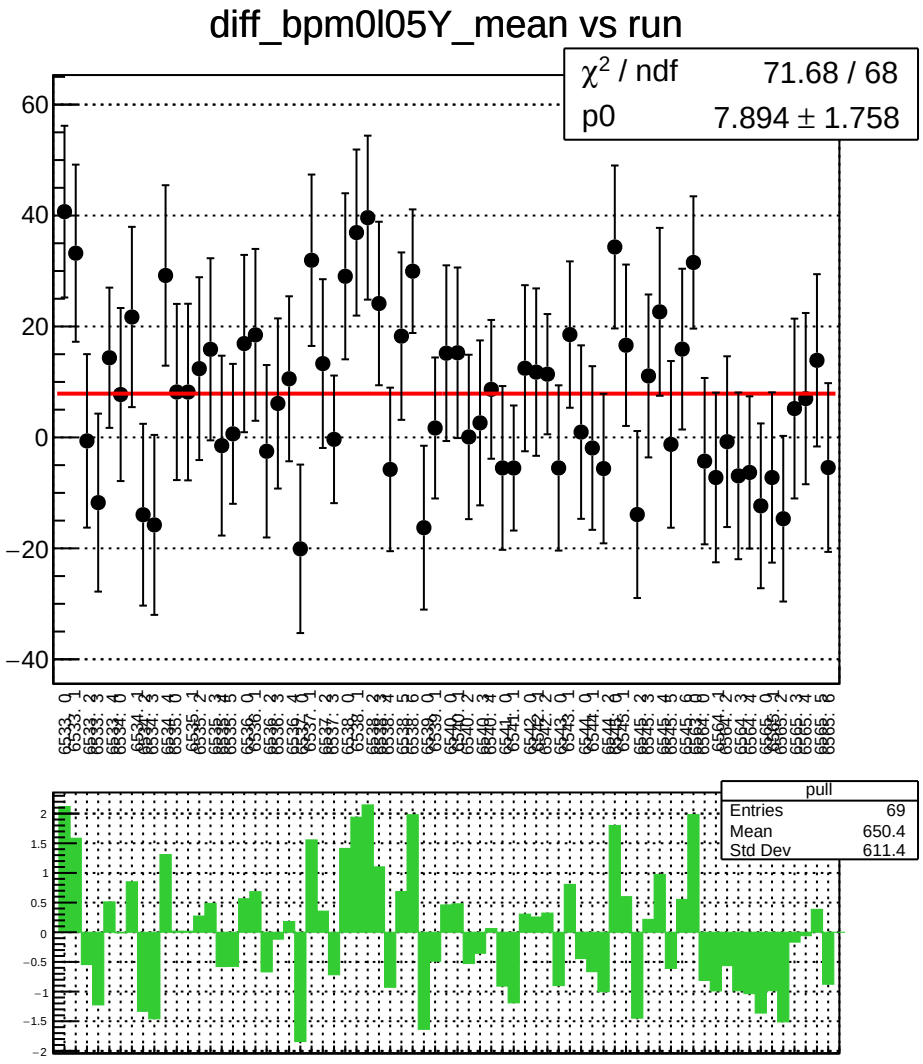

pull1D
Entries 69
Mean −0.002442
Std Dev 1.063
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

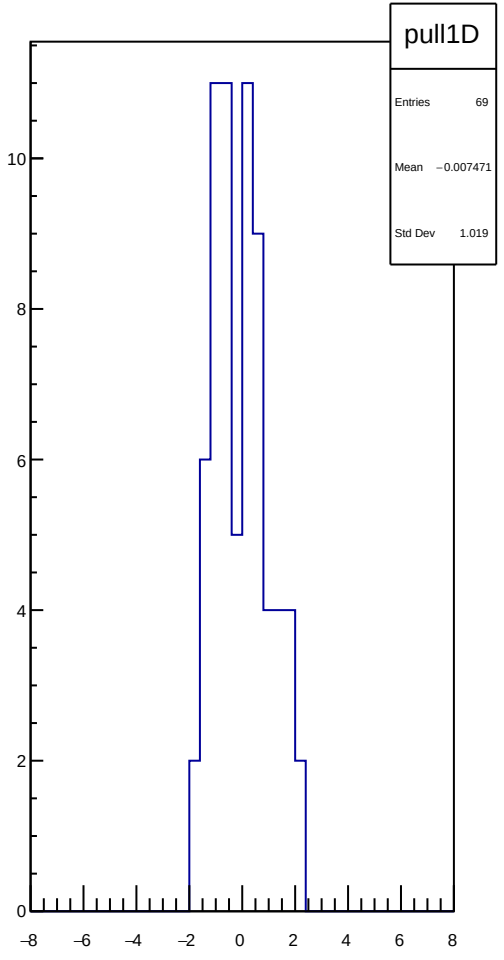

diff_bpm0l04Y_rms vs run
χ² / ndf 1174 / 68
p0 1214 ± 1.04
1320
1300
1280
1260
1240
1220
1200
1180
1160
1140
1120

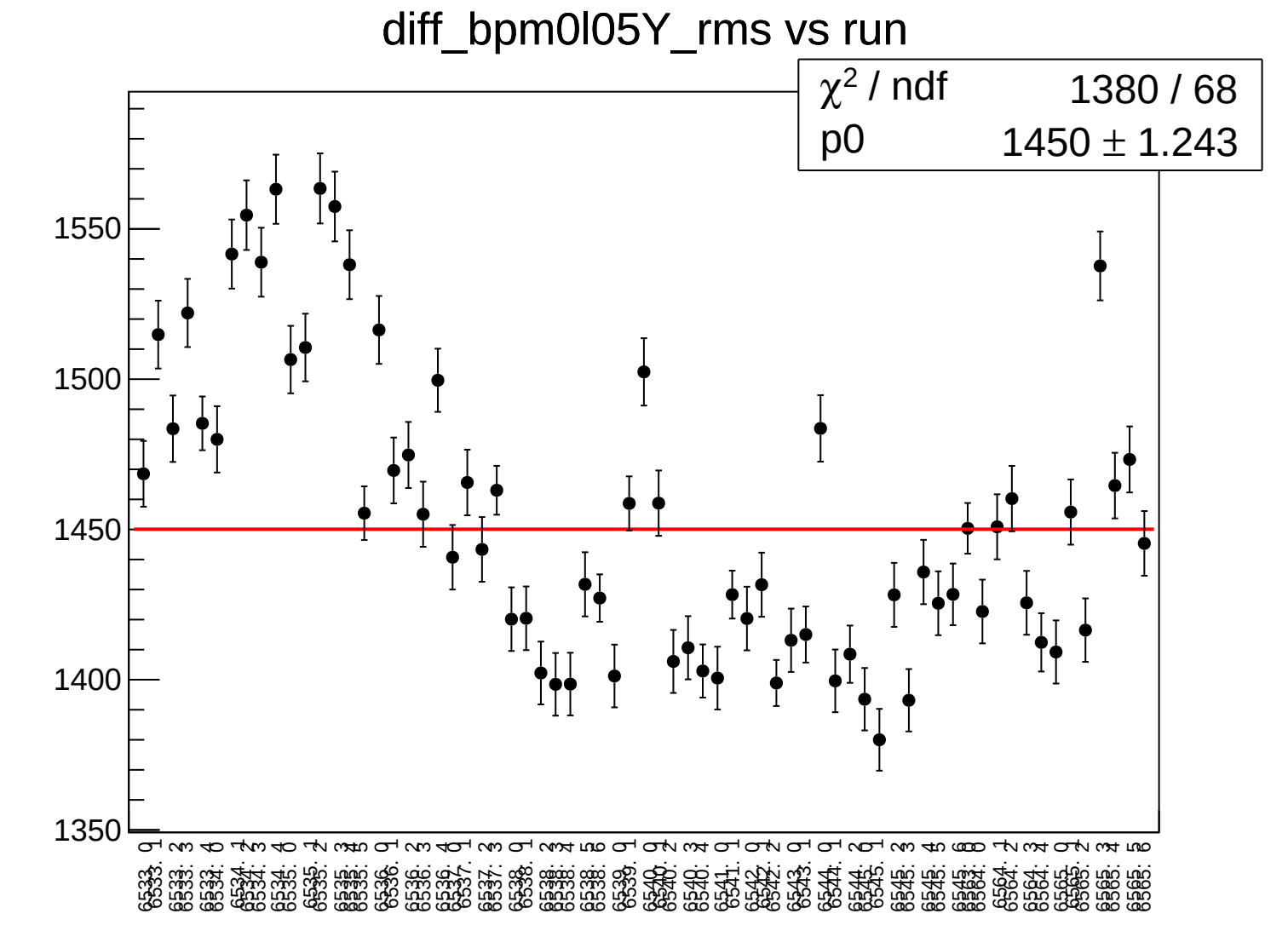

diff_bpm0l05X_mean vs run
χ² / ndf 84.17 / 68
p0 26.31 ± 8.279
pull
Entries 69
Mean 179
Std Dev 148.1

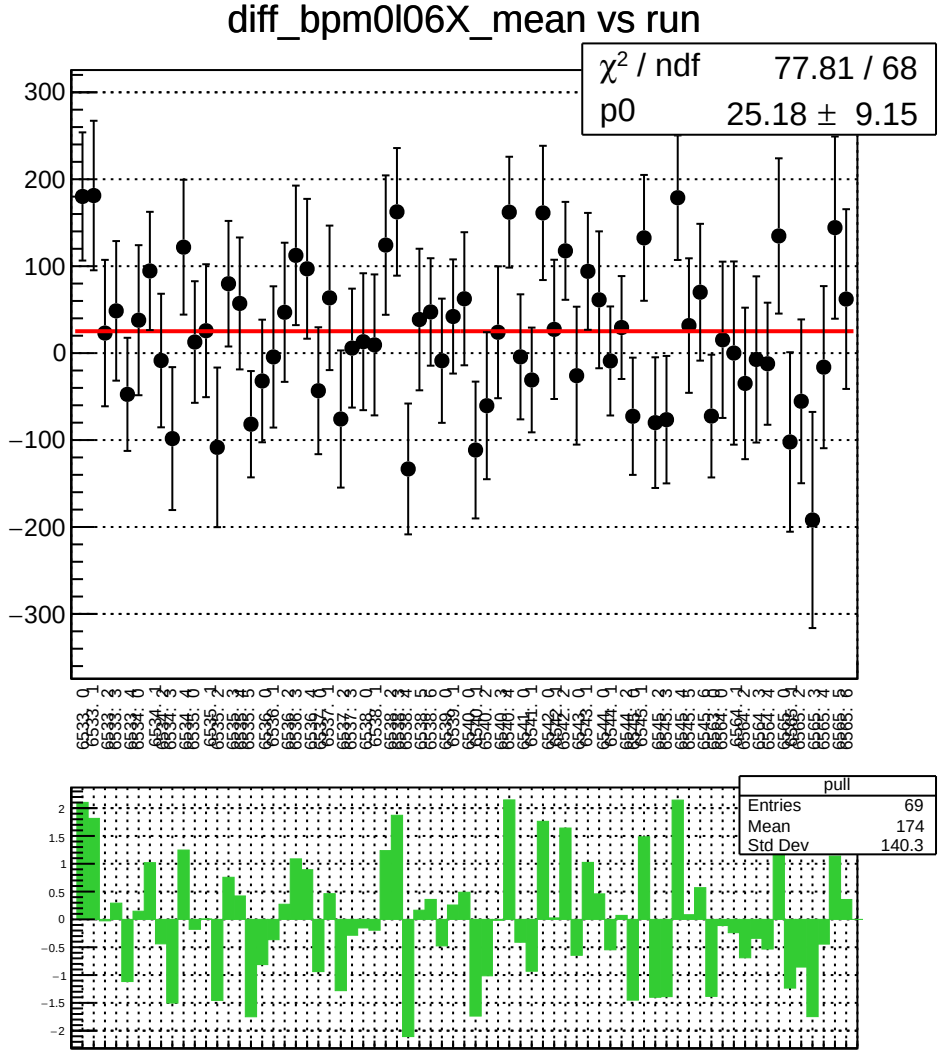

pull1D
Entries 69
Mean −0.01346
Std Dev 1.104

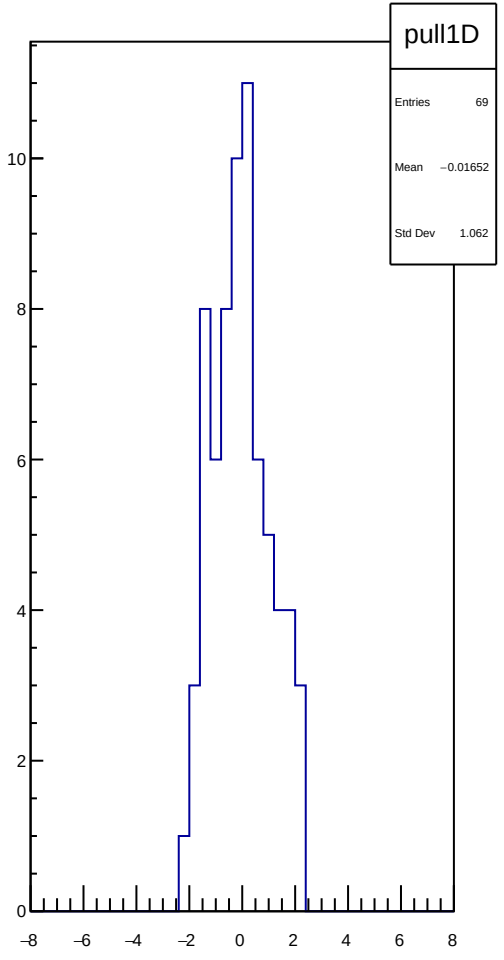

diff_bpm0l05X_rms vs run
χ² / ndf 1.375e+04 / 68
p0 6798 ± 5.854
10000
9000
8000
7000
6000
5000

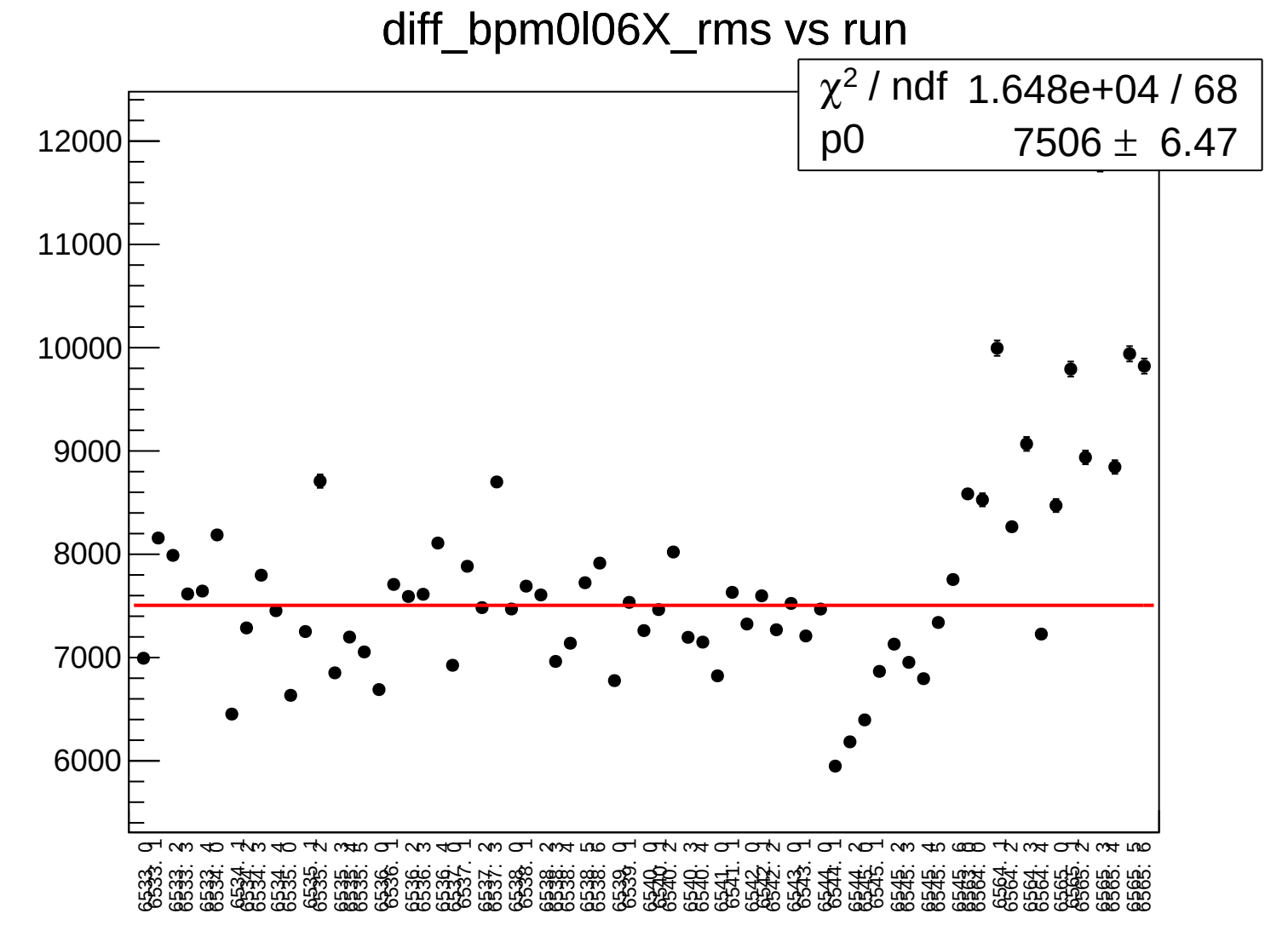

diff_bpm0l05Y_mean vs run
χ² / ndf 71.68 / 68
p0 7.894 ± 1.758
pull
Entries 69
Mean 650.4
Std Dev 611.4

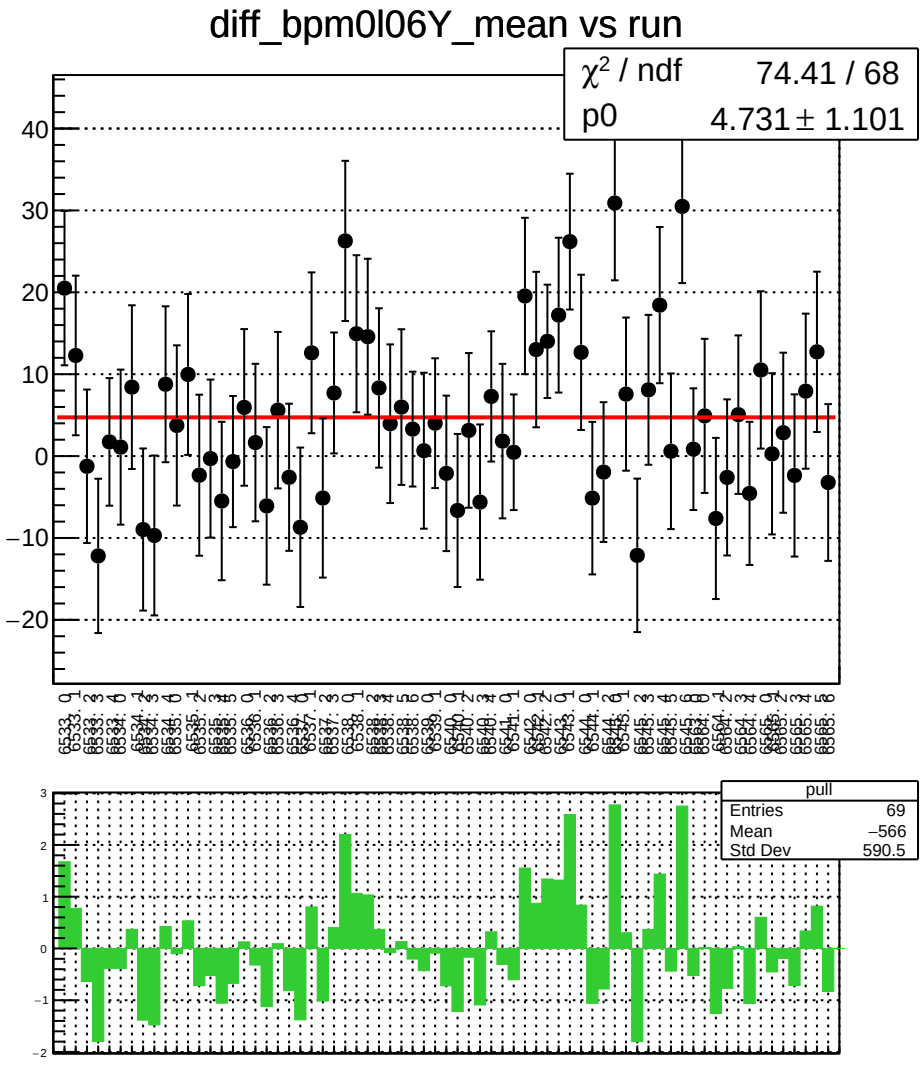

pull1D
Entries 69
Mean −0.007471
Std Dev 1.019

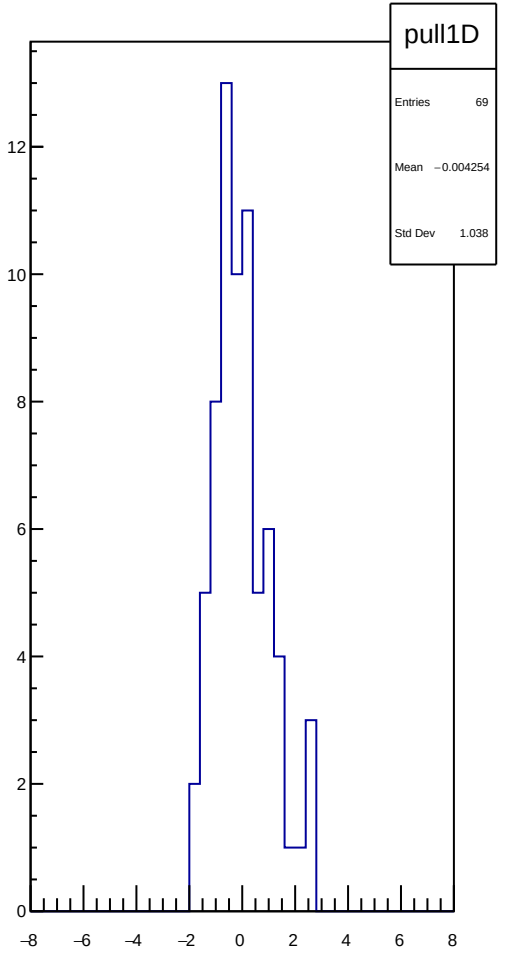

diff_bpm0l05Y_rms vs run
χ² / ndf 1380 / 68
p0 1450 ± 1.243
1550
1500
1450
1400
1350

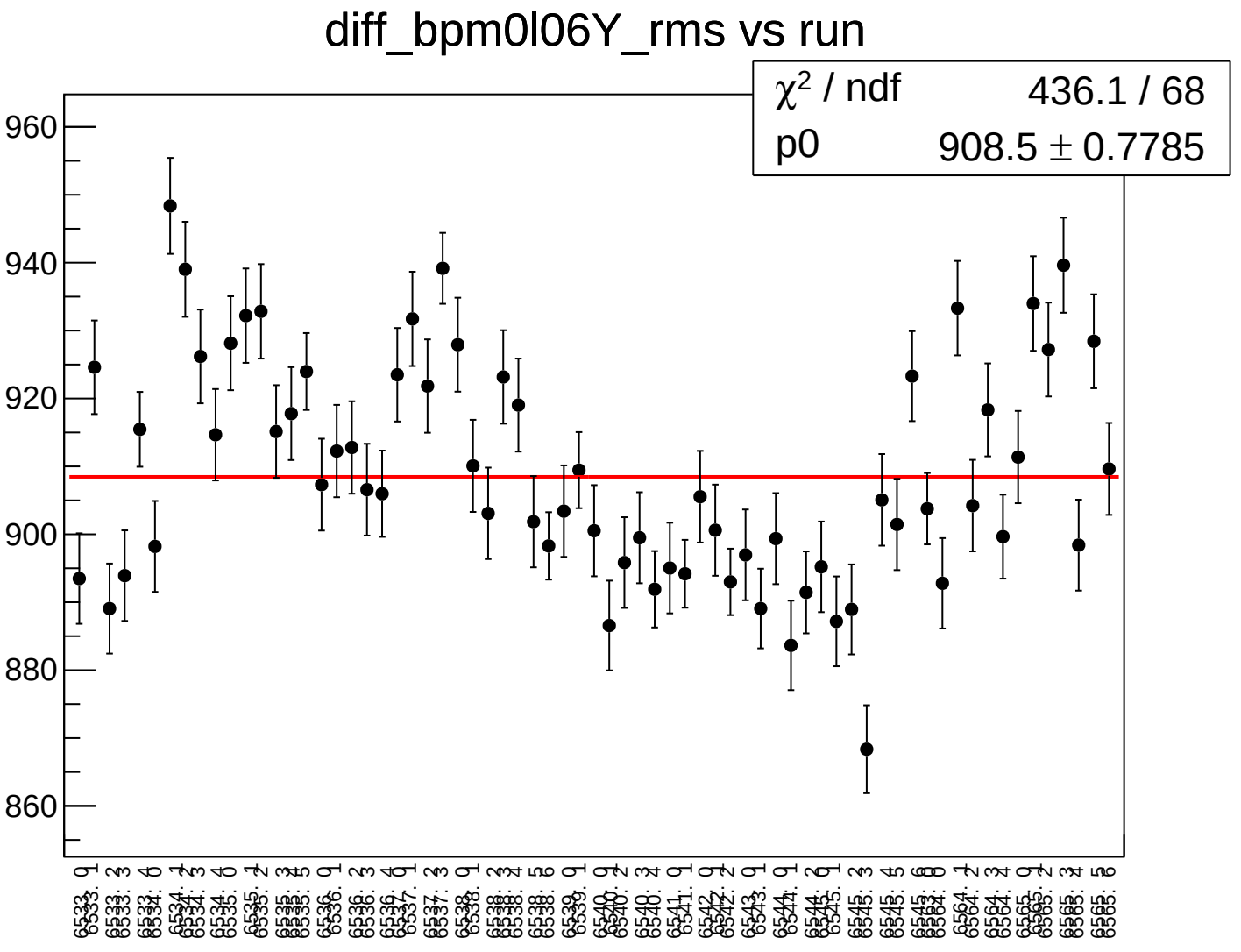

diff_bpm0l06X_mean vs run
χ² / ndf 77.81 / 68
p0 25.18 ± 9.15
pull
Entries 69
Mean 174
Std Dev 140.3

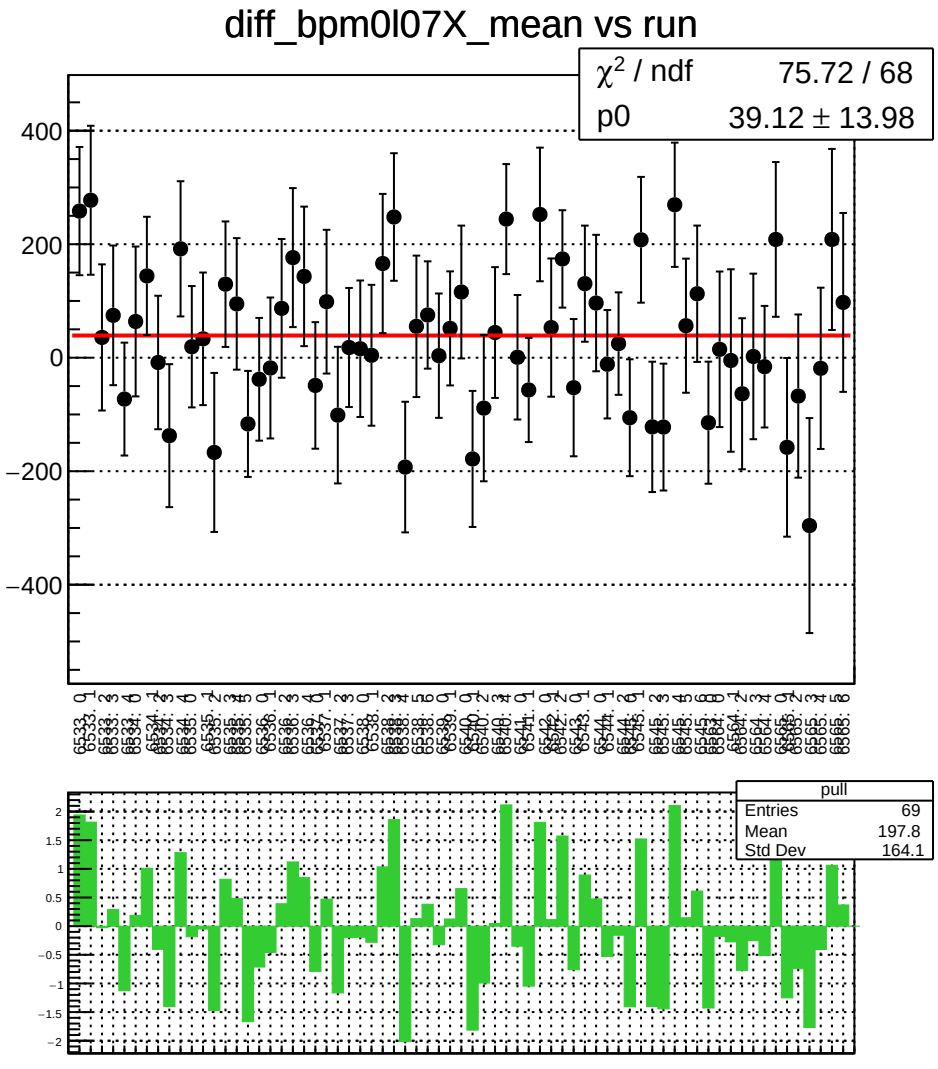

pull1D
Entries 69
Mean −0.01652
Std Dev 1.062

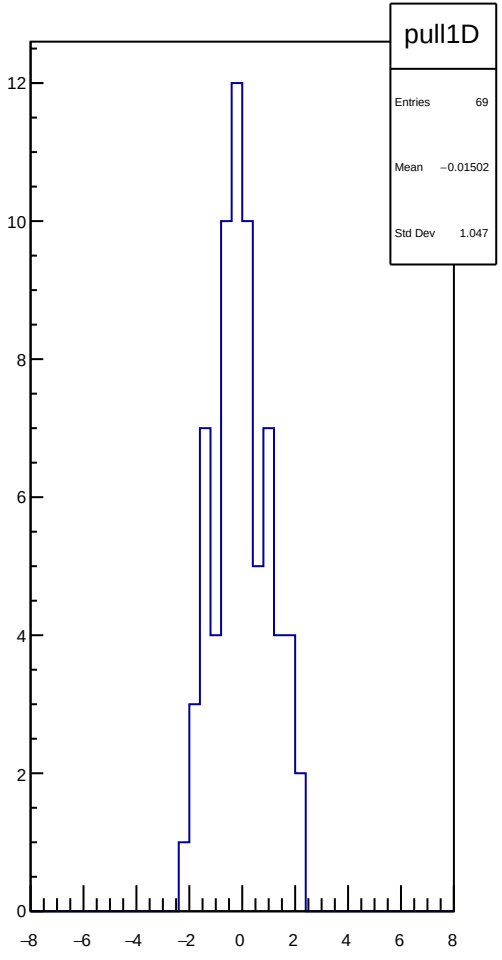

diff_bpm0l06X_rms vs run
χ² / ndf 1.648e+04 / 68
p0 7506 ± 6.47
12000
11000
10000
9000
8000
7000
6000

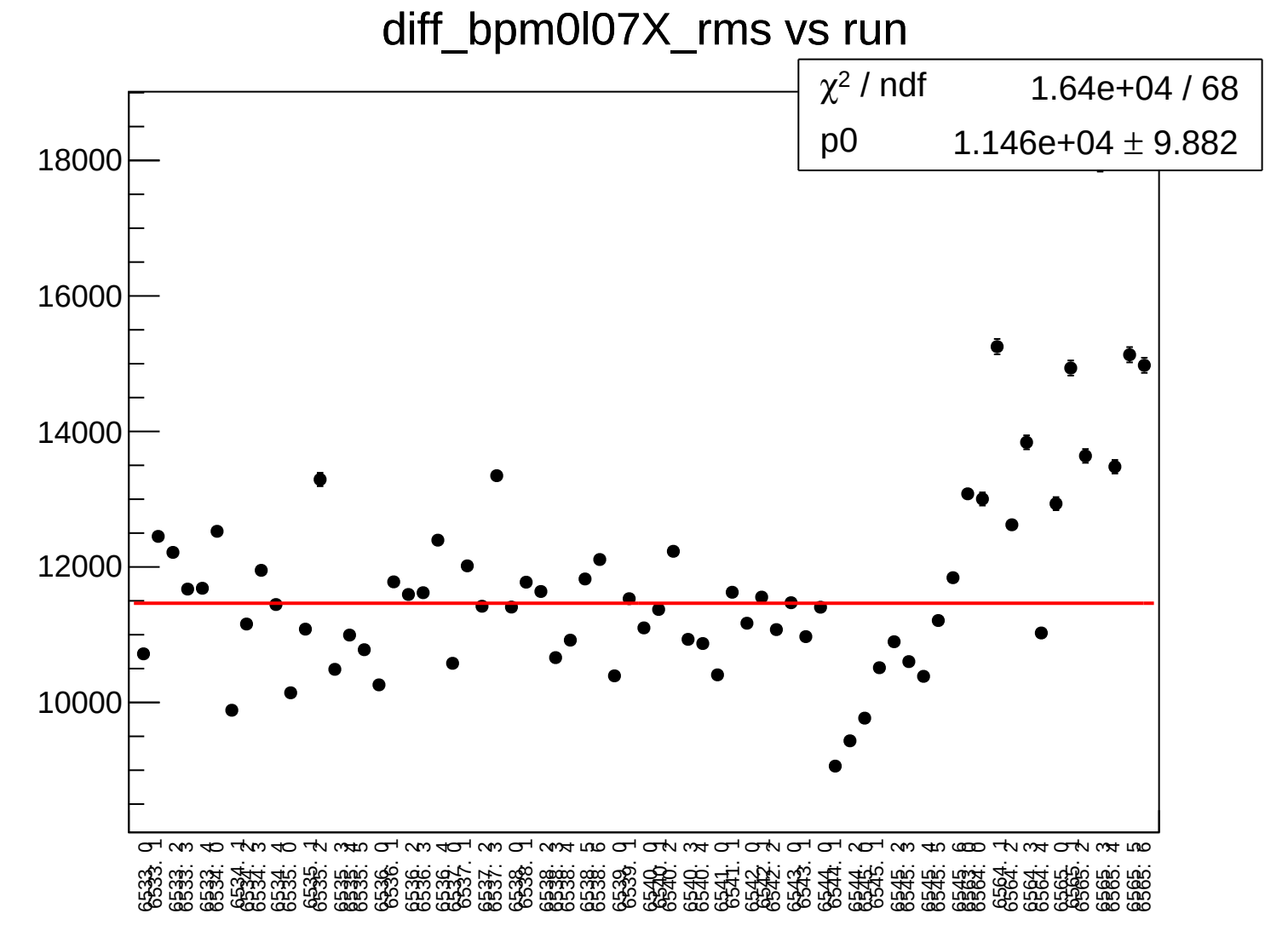

diff_bpm0l06Y_mean vs run
$\chi^2$ / ndf 74.41 / 68
p0 4.731 ± 1.101
pull
Entries 69
Mean −566
Std Dev 590.5

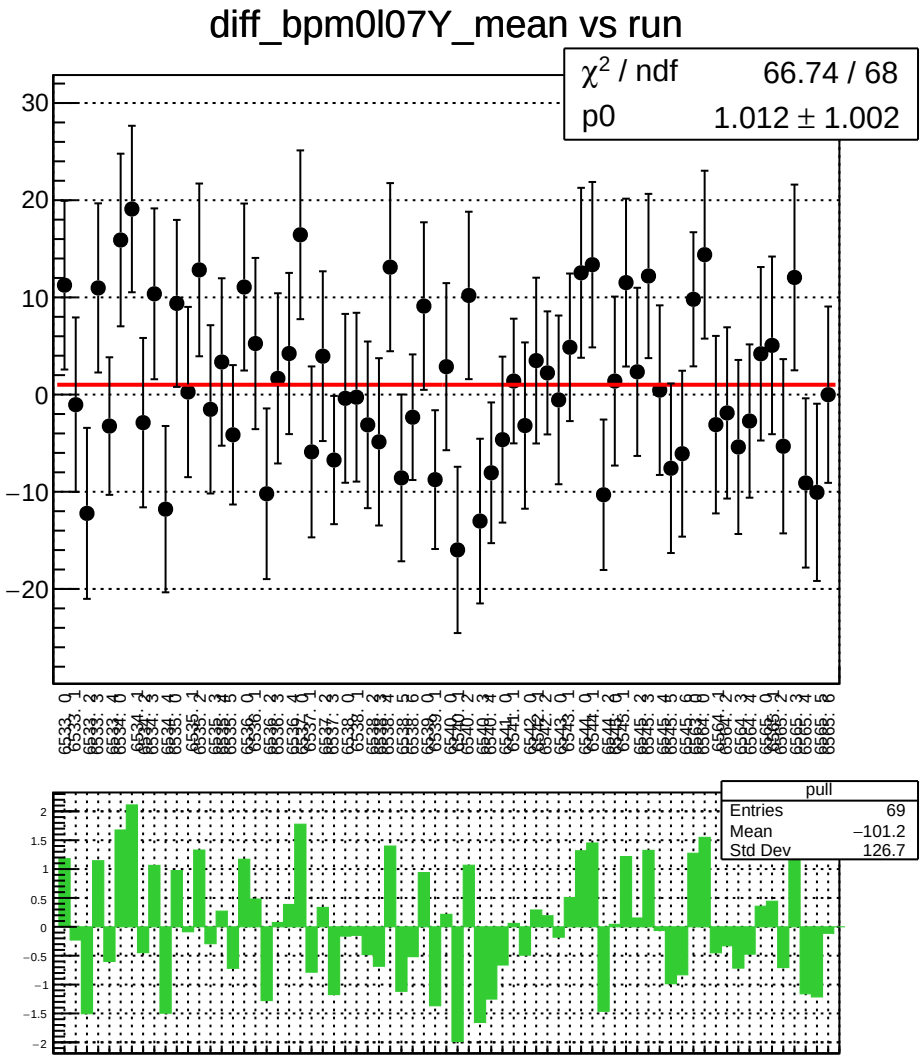

pull1D
Entries 69
Mean −0.004254
Std Dev 1.038

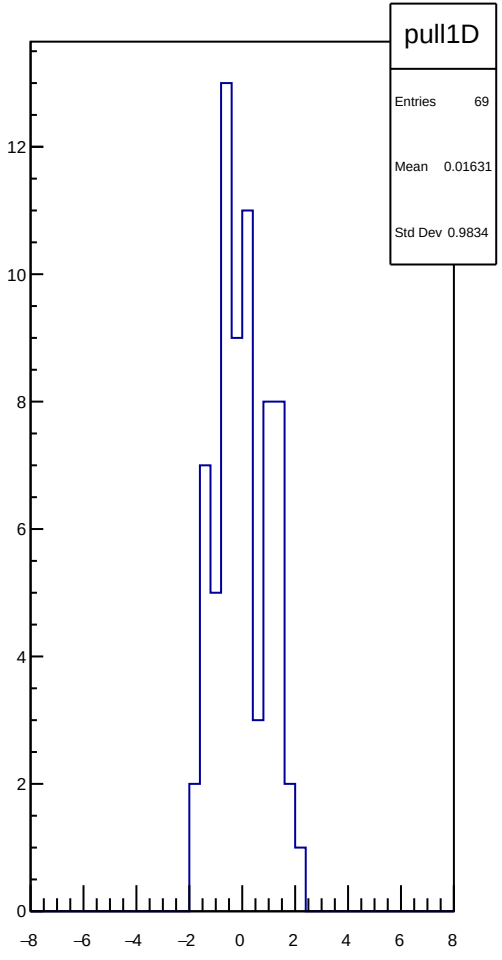

diff_bpm0l06Y_rms vs run
χ² / ndf 436.1 / 68
p0 908.5 ± 0.7785
960
940
920
900
880
860

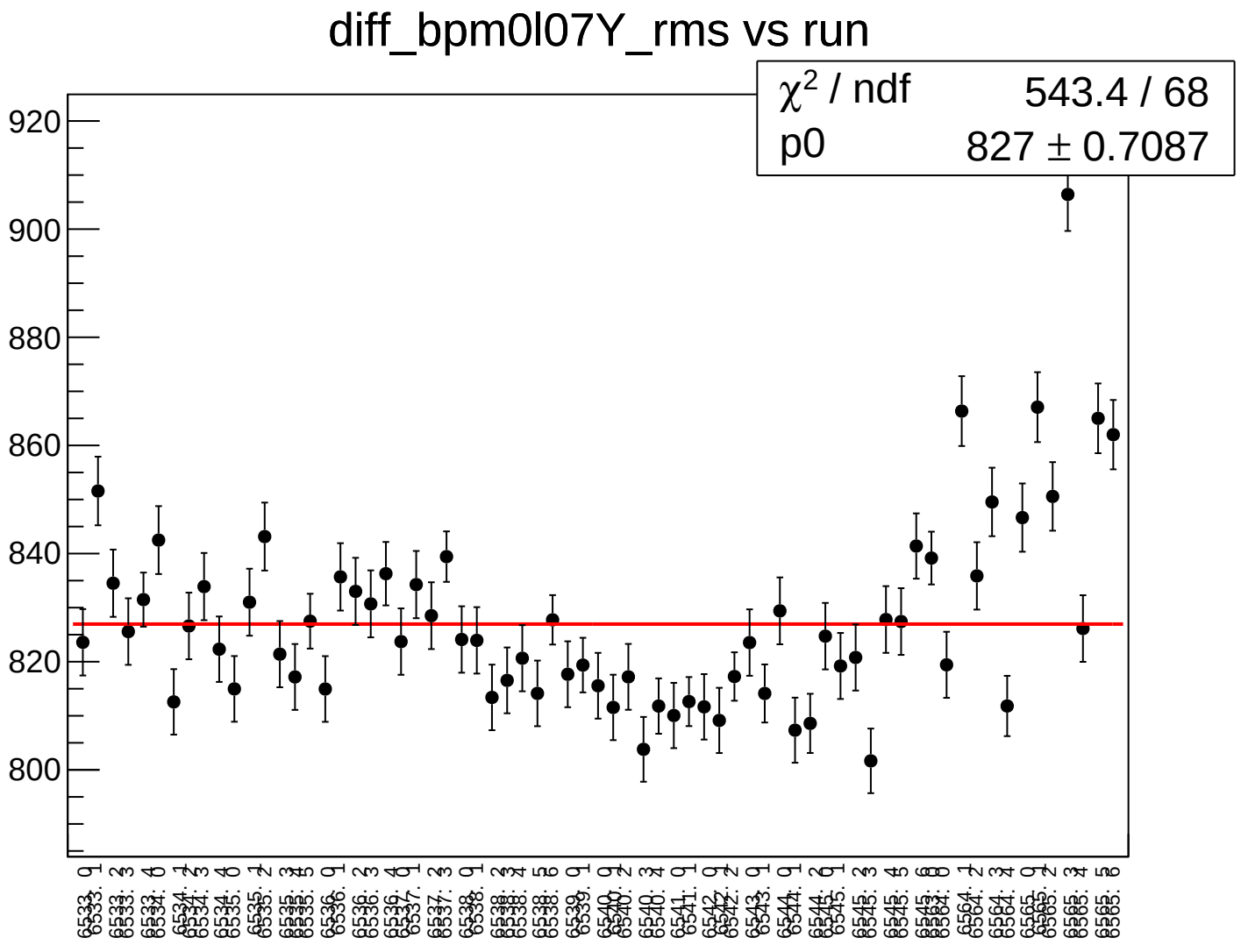

diff_bpm0l07X_mean vs run
χ² / ndf 75.72 / 68
p0 39.12 ± 13.98
pull
Entries 69
Mean 197.8
Std Dev 164.1

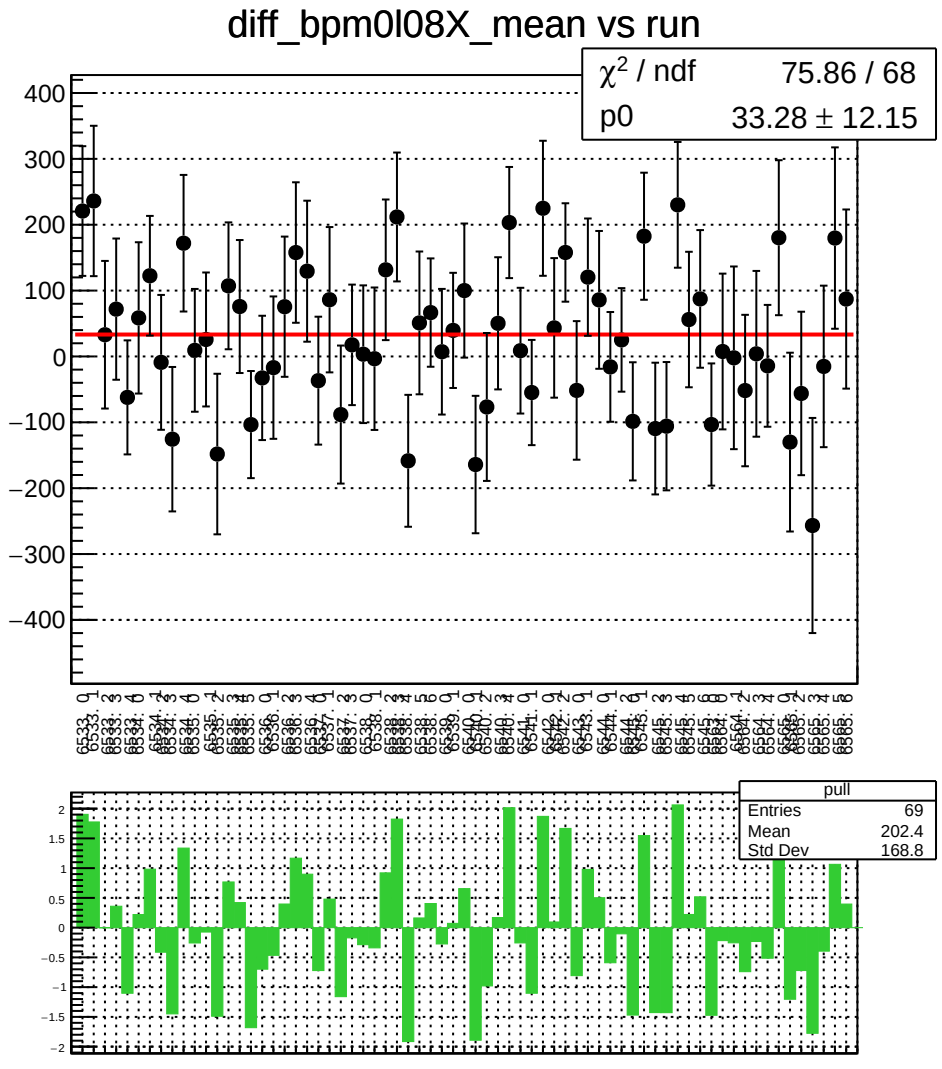

pull1D
Entries 69
Mean −0.01502
Std Dev 1.047

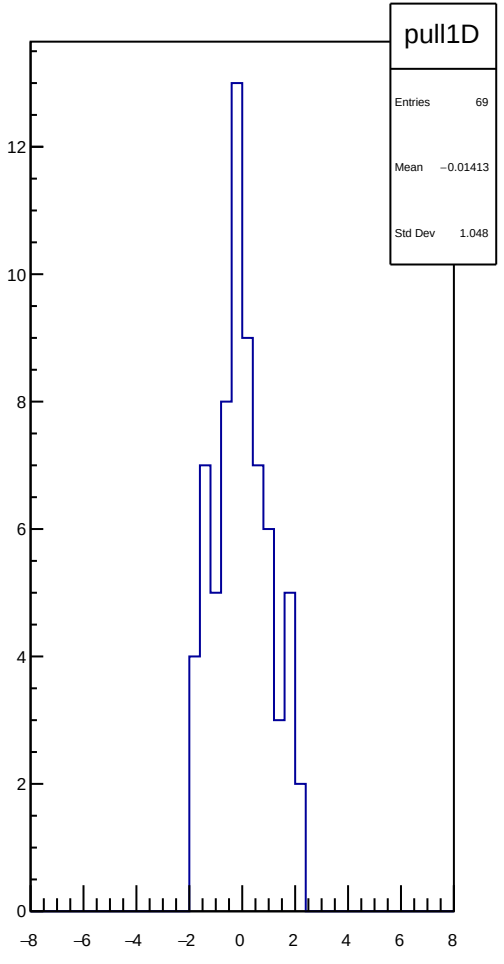

diff_bpm0l07X_rms vs run
χ² / ndf 1.64e+04 / 68
p0 1.146e+04 ± 9.882
18000
16000
14000
12000
10000

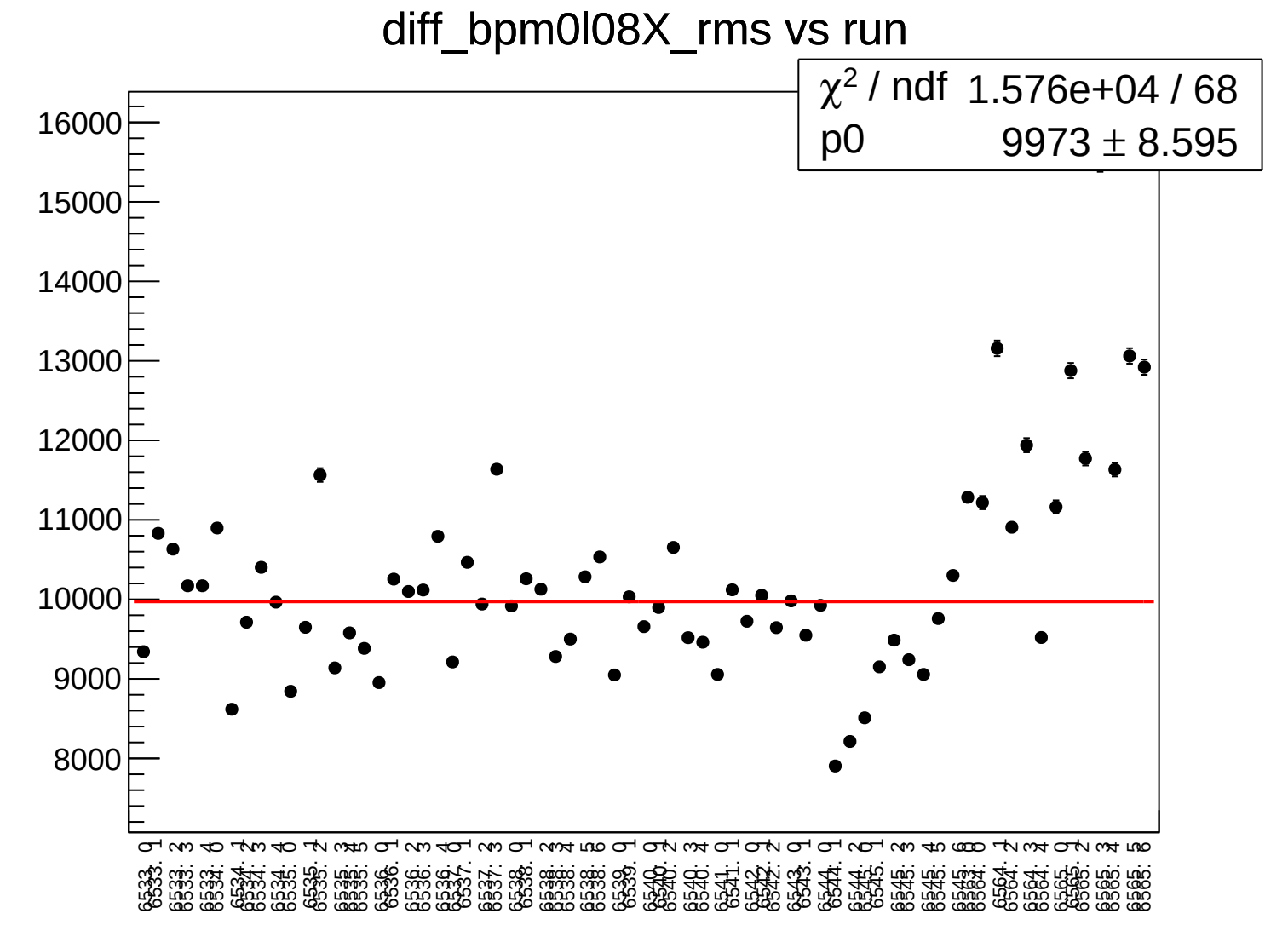

diff_bpm0l07Y_mean vs run
χ² / ndf 66.74 / 68
p0 1.012 ± 1.002
pull
Entries 69
Mean −101.2
Std Dev 126.7

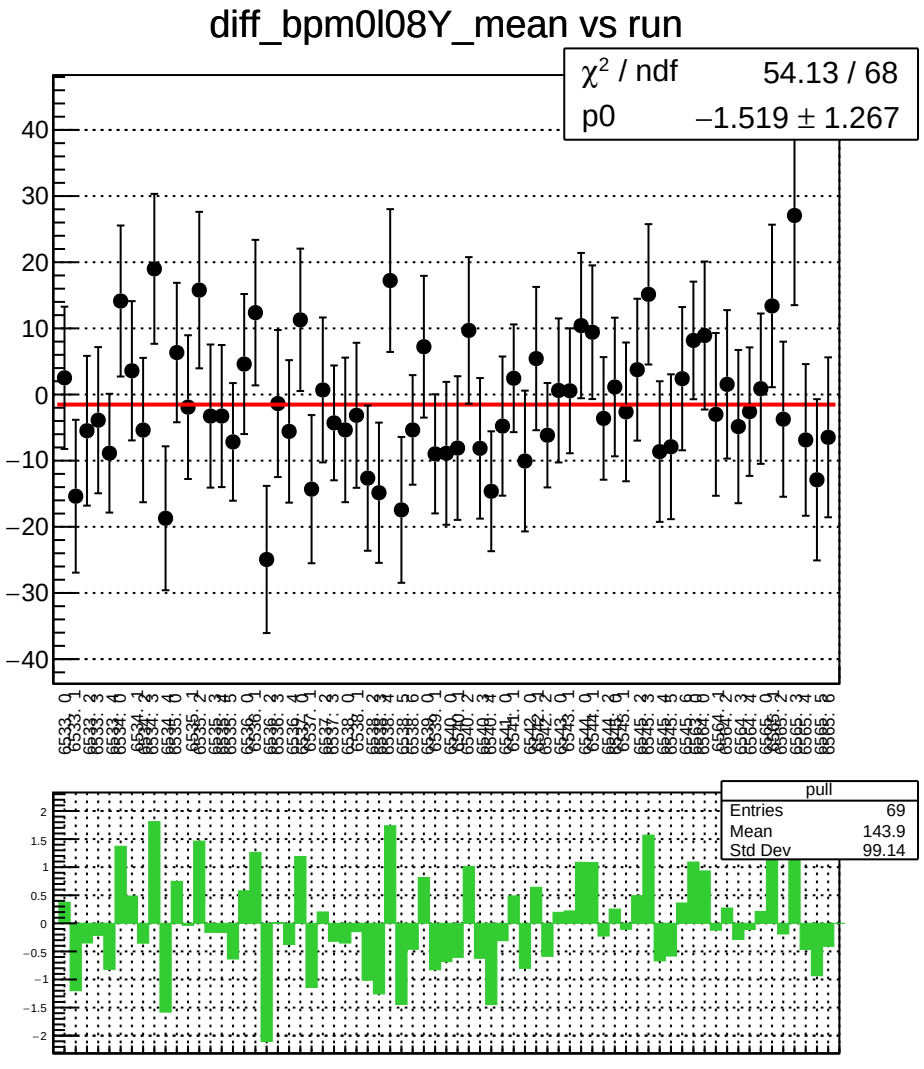

pull1D
Entries 69
Mean 0.01631
Std Dev 0.9834

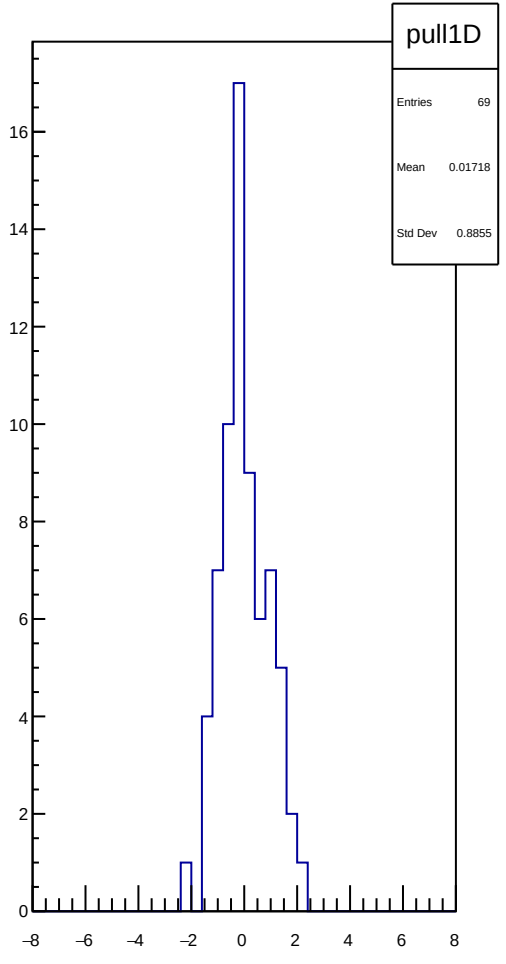

diff_bpm0l07Y_rms vs run
χ² / ndf 543.4 / 68
p0 827 ± 0.7087
920
900
880
860
840
820
800

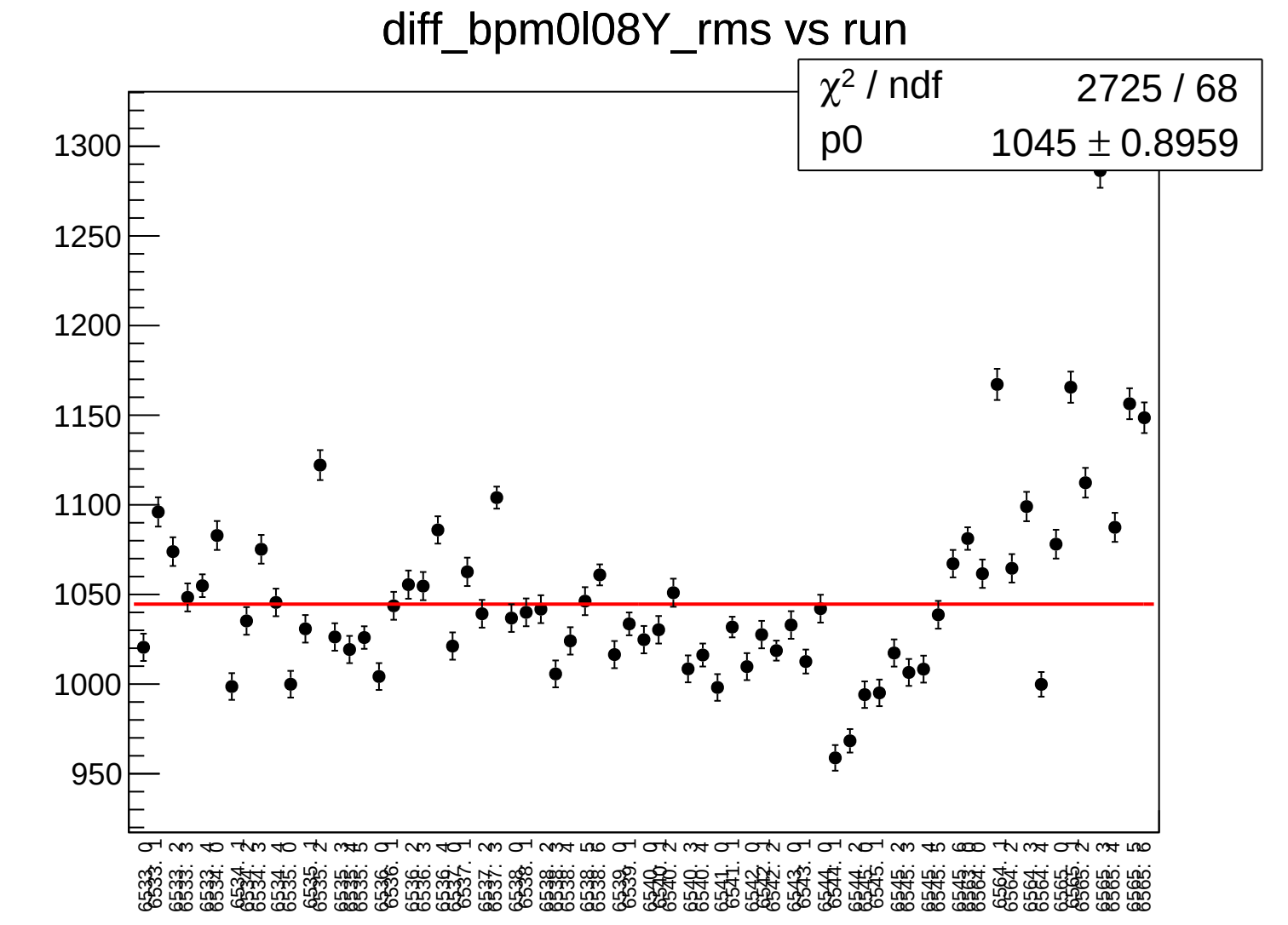

diff_bpm0l08X_mean vs run
$\chi^2$ / ndf 75.86 / 68
p0 33.28 ± 12.15
pull
Entries 69
Mean 202.4
Std Dev 168.8

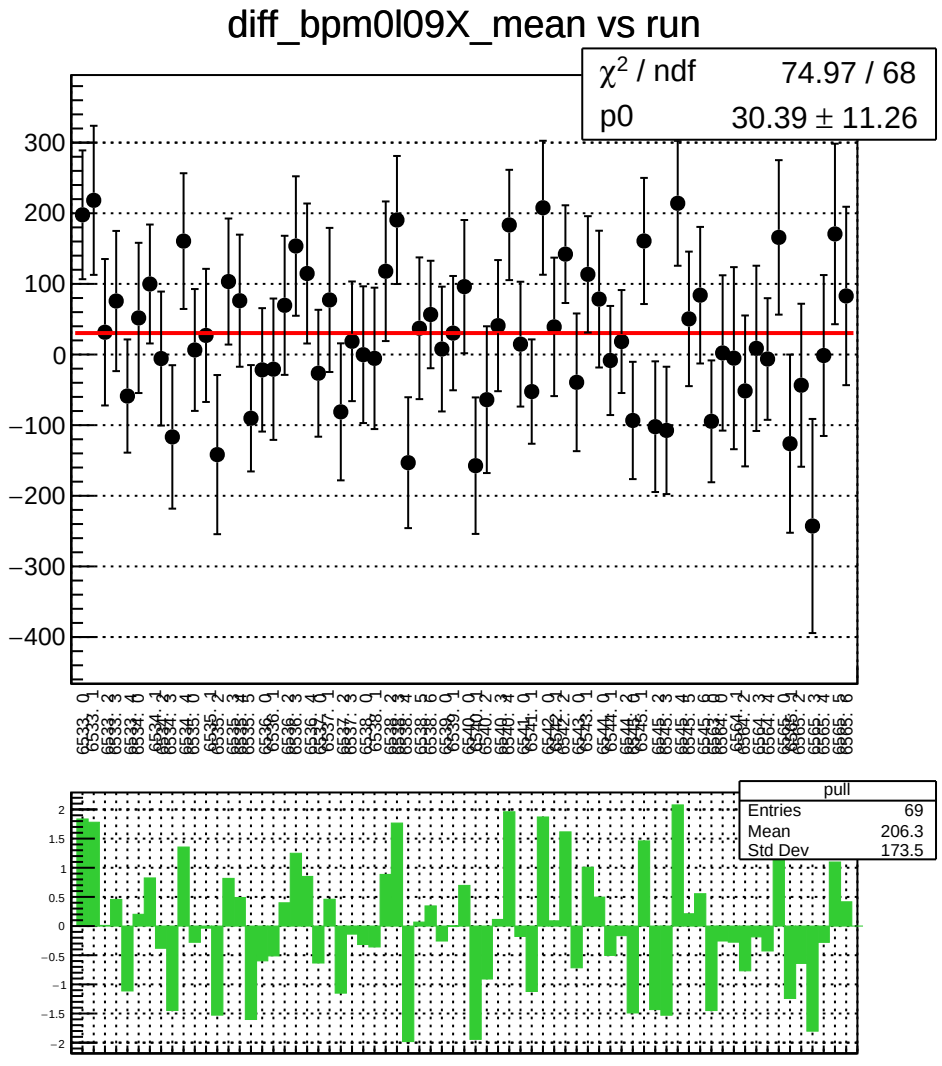

pull1D
Entries 69
Mean −0.01413
Std Dev 1.048

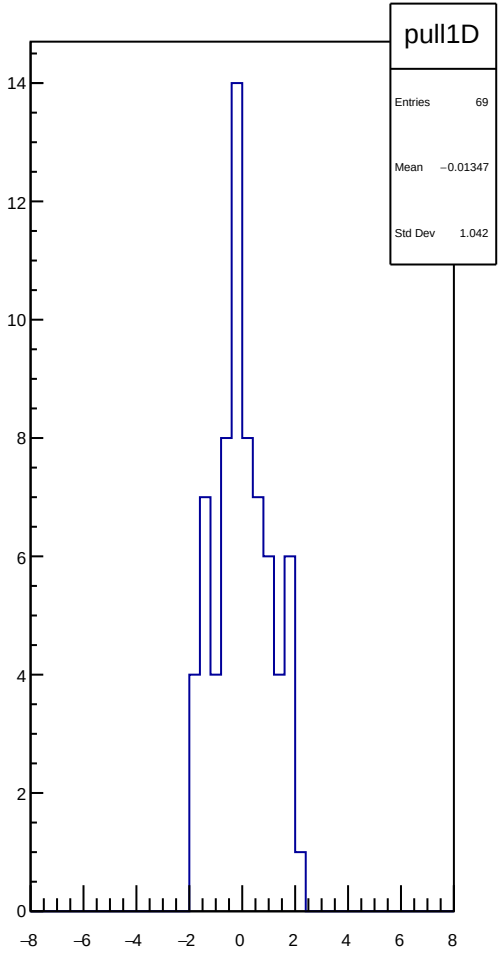

diff_bpm0l08X_rms vs run
χ² / ndf 1.576e+04 / 68
p0 9973 ± 8.595
16000
15000
14000
13000
12000
11000
10000
9000
8000

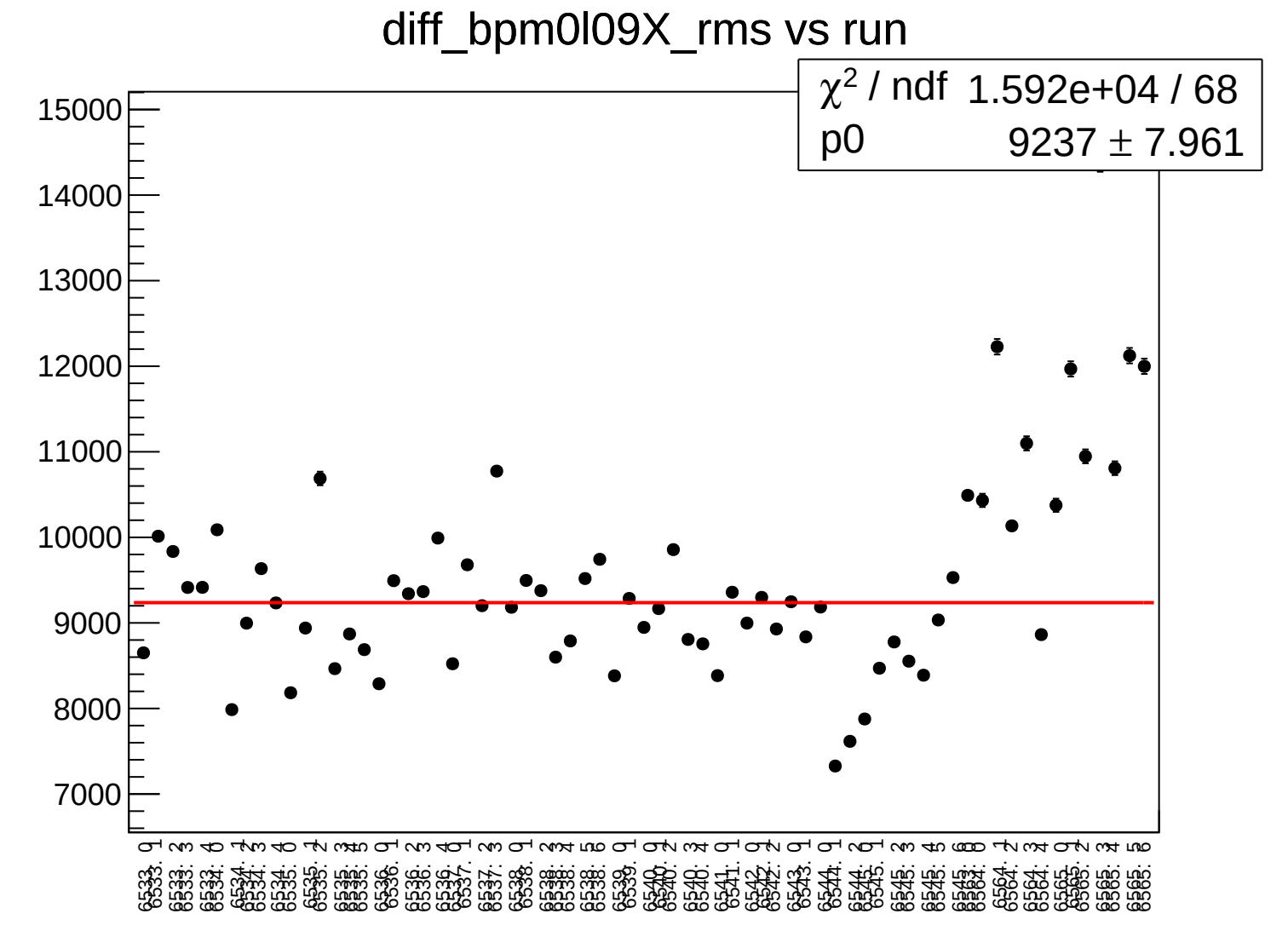

diff_bpm0l08Y_mean vs run
χ² / ndf 54.13 / 68
p0 −1.519 ± 1.267
pull
Entries 69
Mean 143.9
Std Dev 99.14

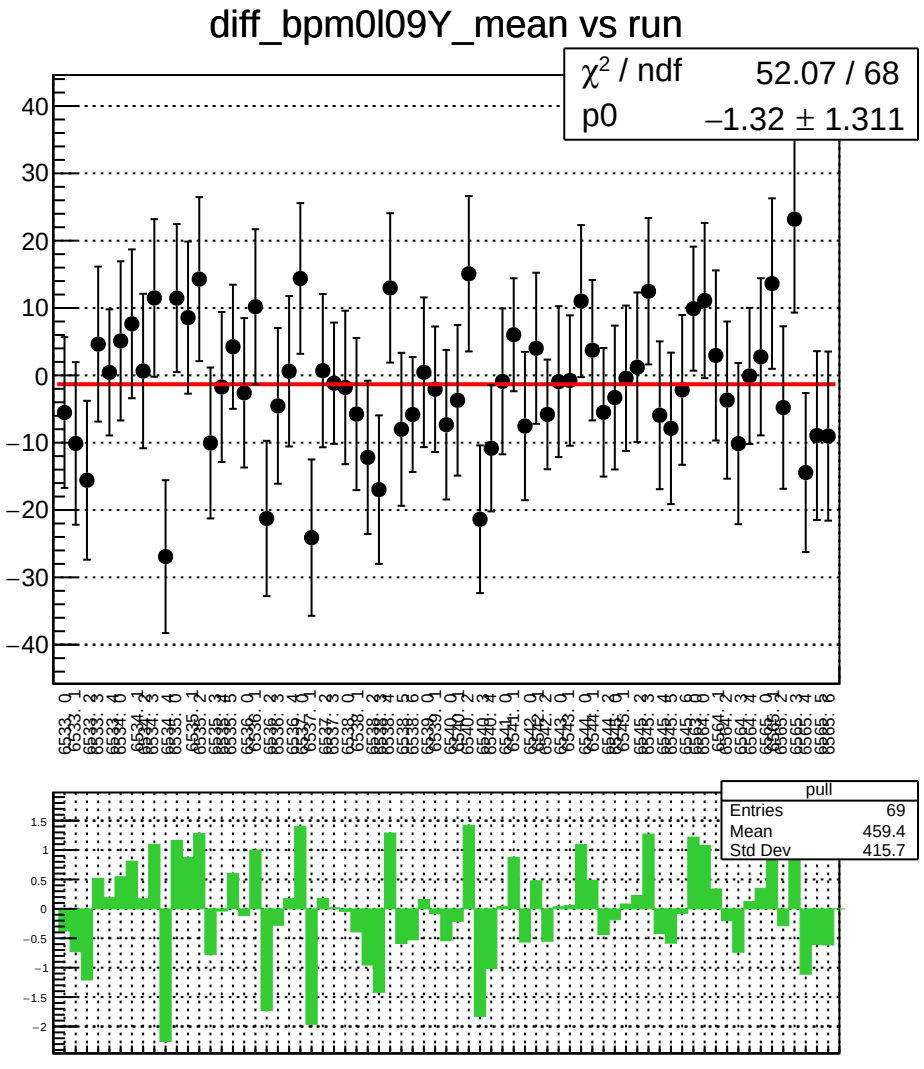

pull1D
Entries 69
Mean 0.01718
Std Dev 0.8855

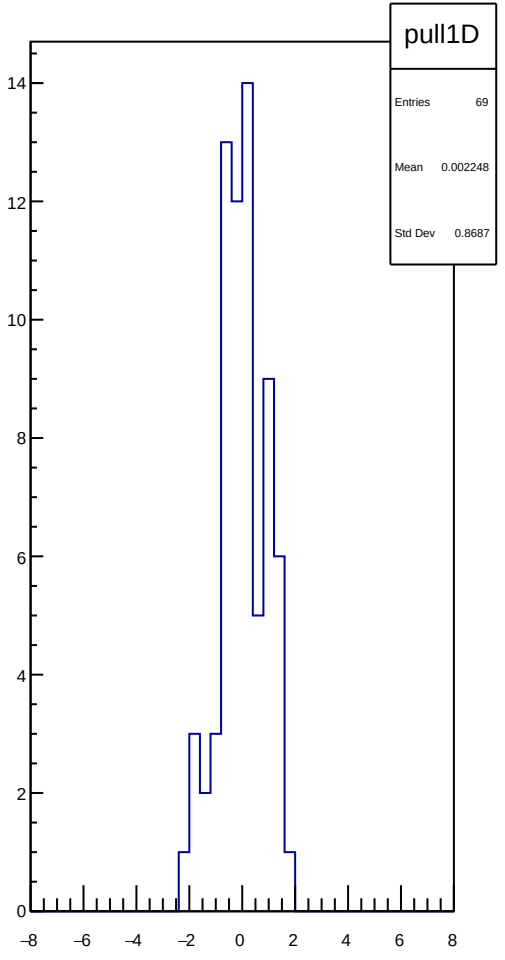

diff_bpm0l08Y_rms vs run
χ² / ndf 2725 / 68
p0 1045 ± 0.8959
1300
1250
1200
1150
1100
1050
1000
950

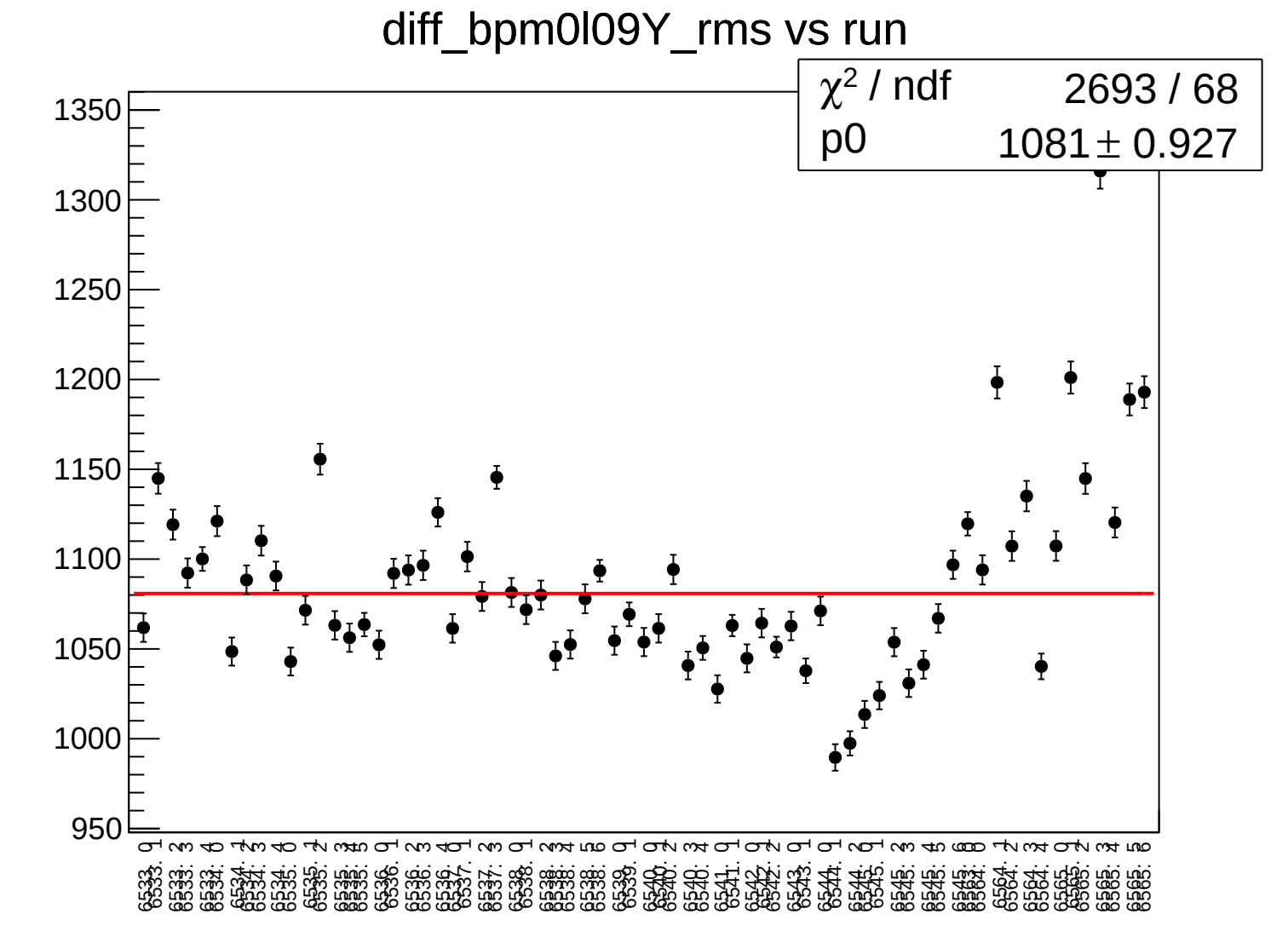

diff_bpm0l09X_mean vs run
$\chi^2$ / ndf 74.97 / 68
p0 30.39 ± 11.26
pull
Entries 69
Mean 206.3
Std Dev 173.5

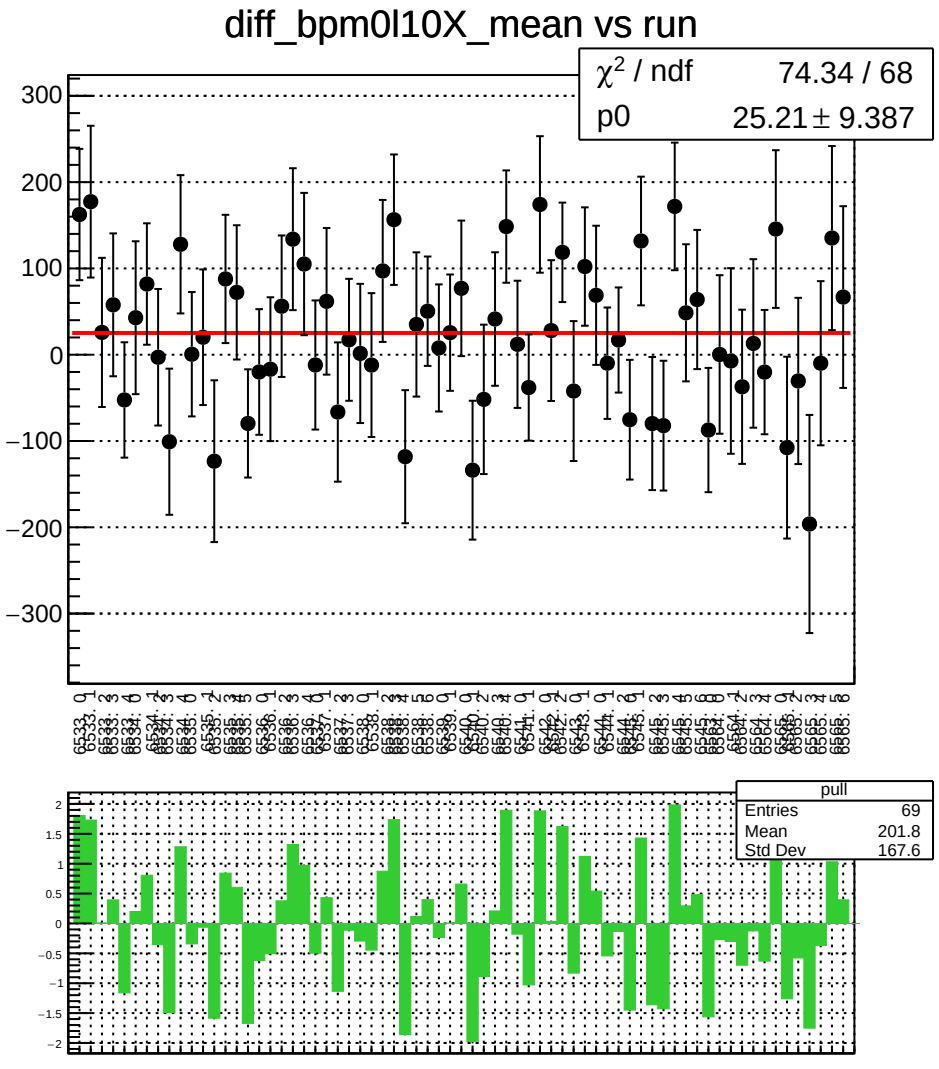

pull1D
Entries 69
Mean −0.01347
Std Dev 1.042

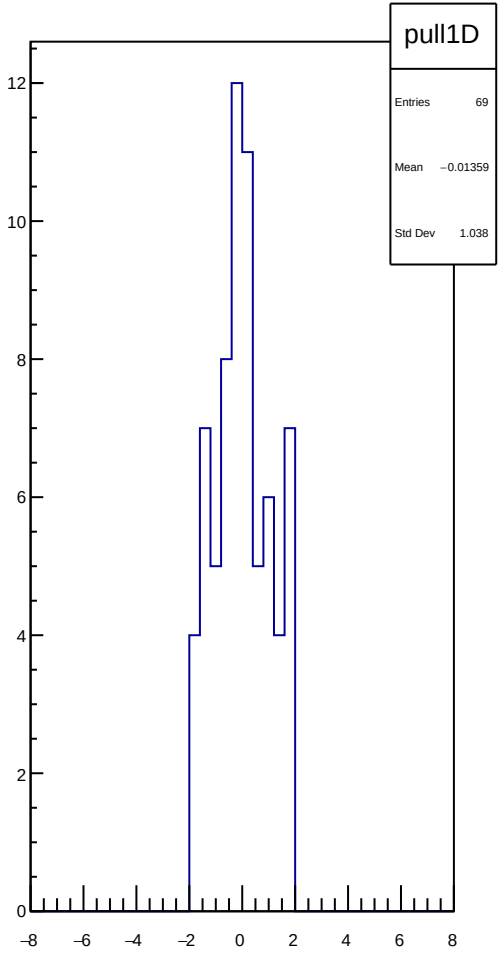

diff_bpm0l09X_rms vs run
χ² / ndf 1.592e+04 / 68
p0 9237 ± 7.961
15000
14000
13000
12000
11000
10000
9000
8000
7000

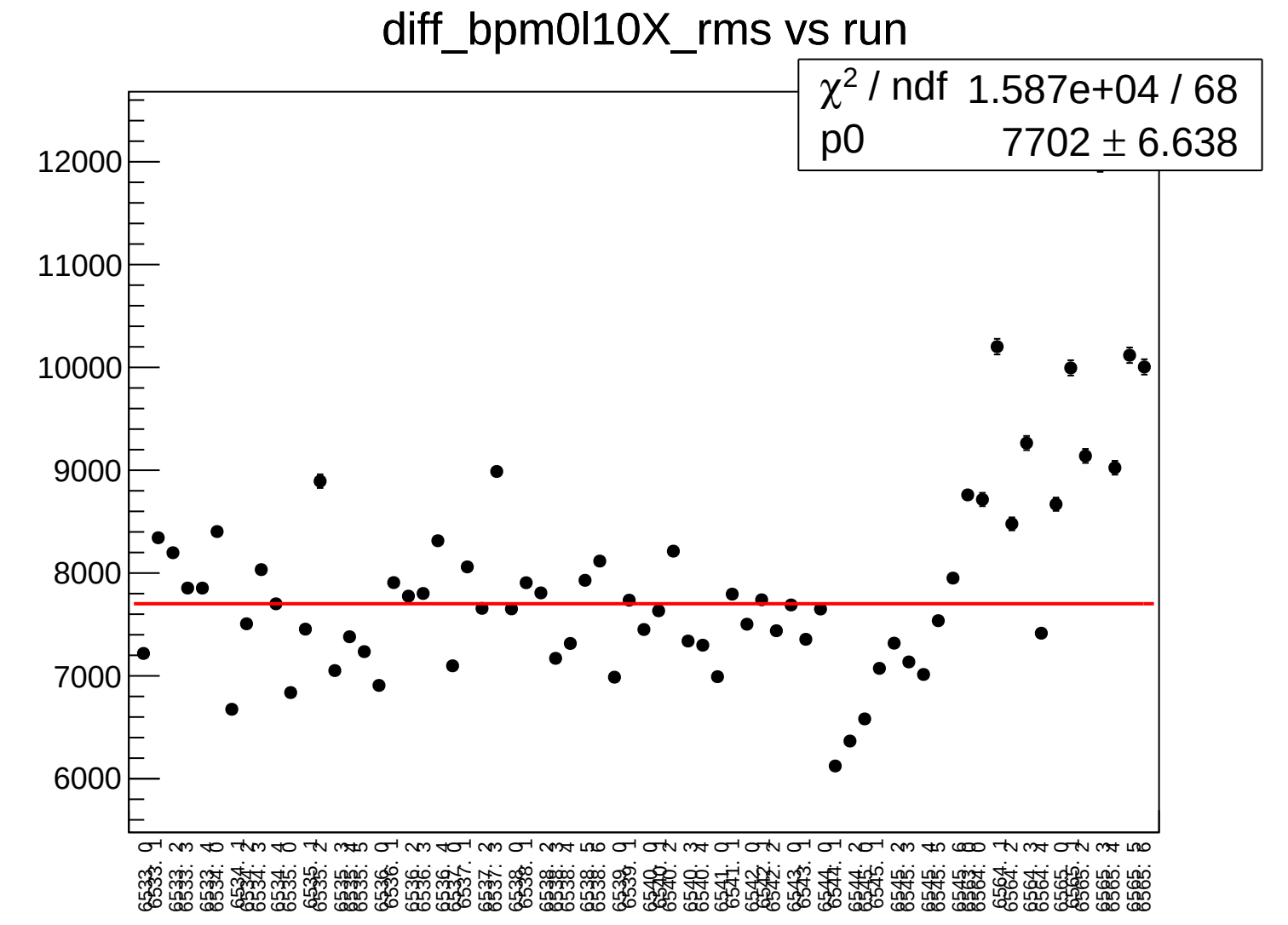

diff_bpm0l09Y_mean vs run
χ² / ndf 52.07 / 68
p0 −1.32 ± 1.311
pull
Entries 69
Mean 459.4
Std Dev 415.7

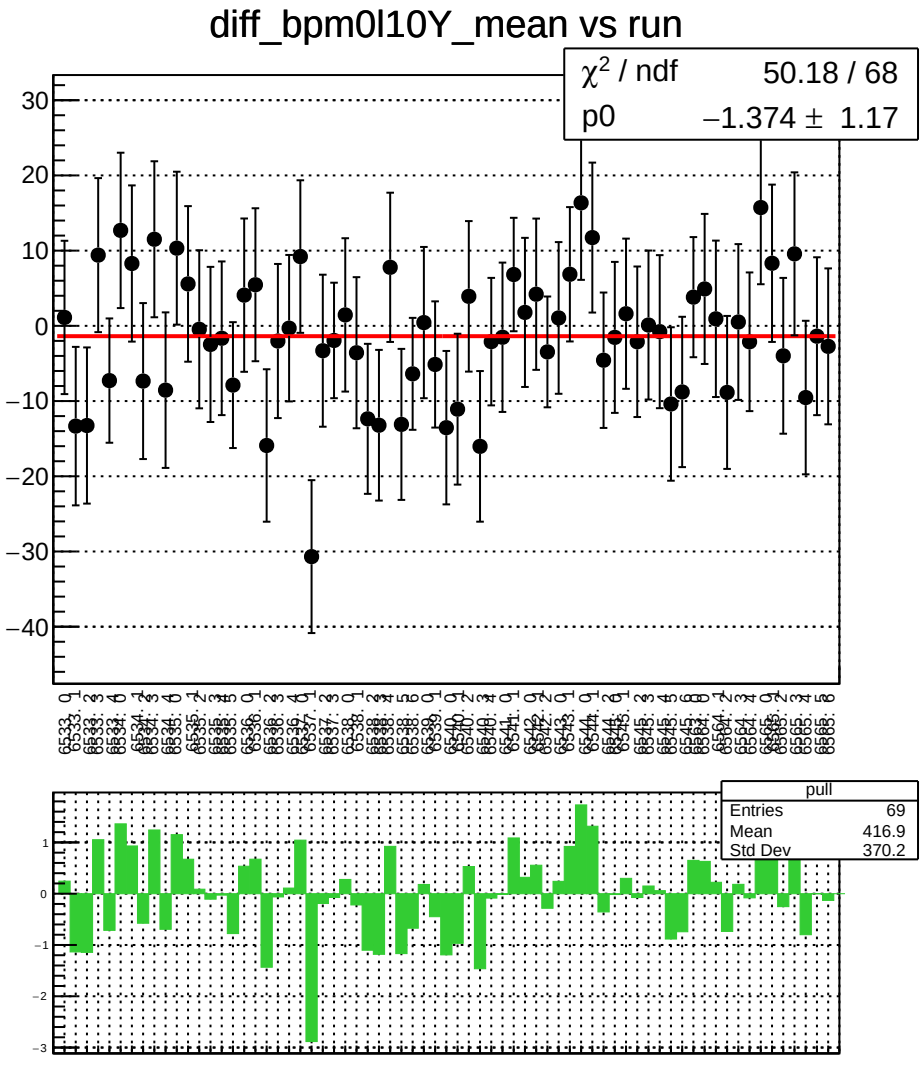

pull1D
Entries 69
Mean 0.002248
Std Dev 0.8687

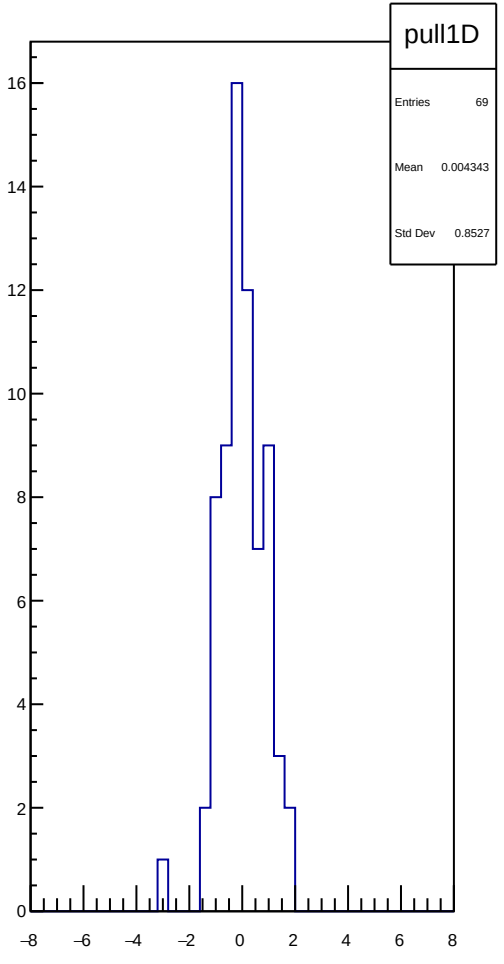

diff_bpm0l09Y_rms vs run
χ² / ndf 2693 / 68
p0 1081 ± 0.927
1350
1300
1250
1200
1150
1100
1050
1000
950

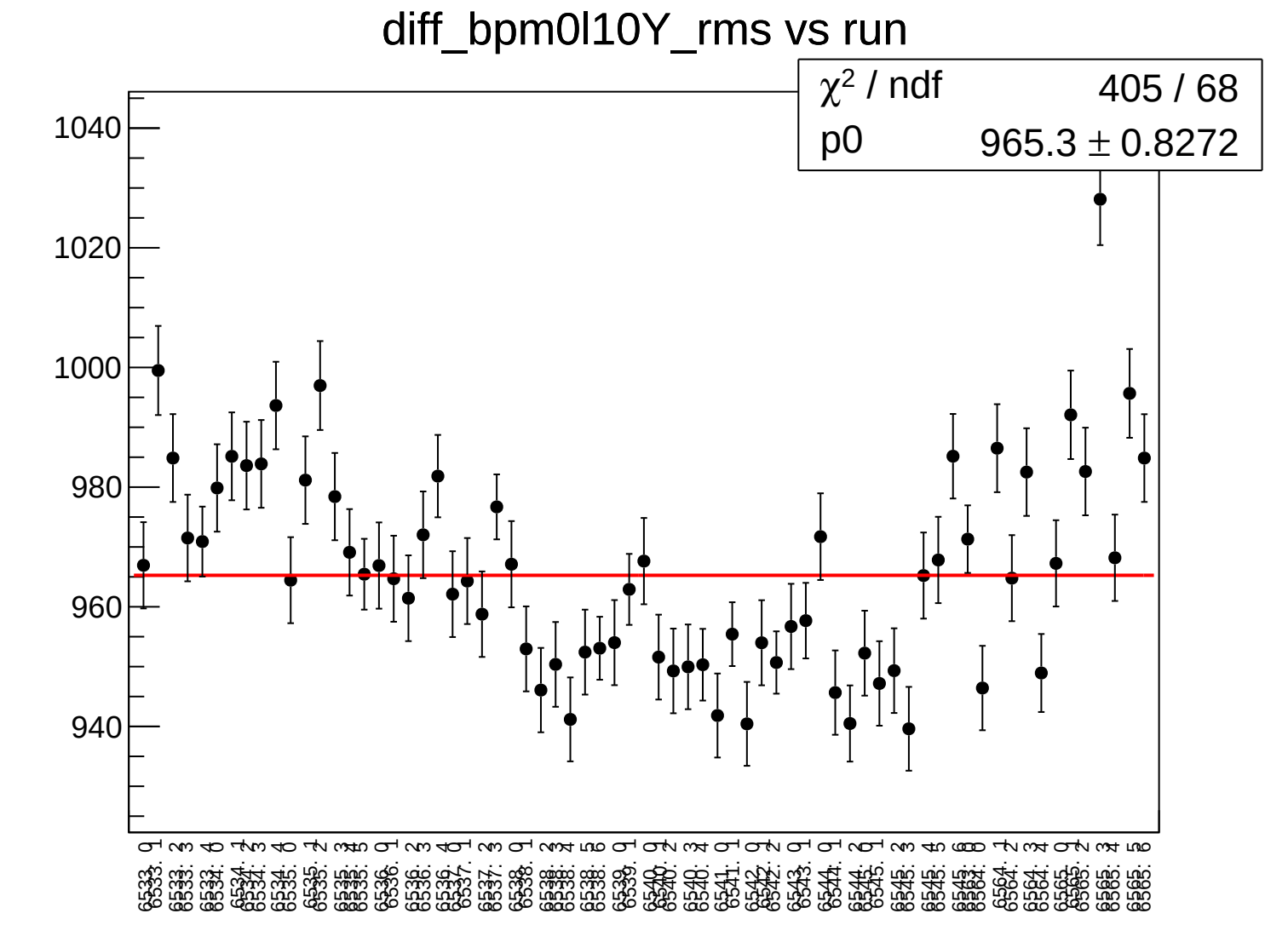

diff_bpm0l10X_mean vs run
χ² / ndf 74.34 / 68
p0 25.21 ± 9.387
pull
Entries 69
Mean 201.8
Std Dev 167.6

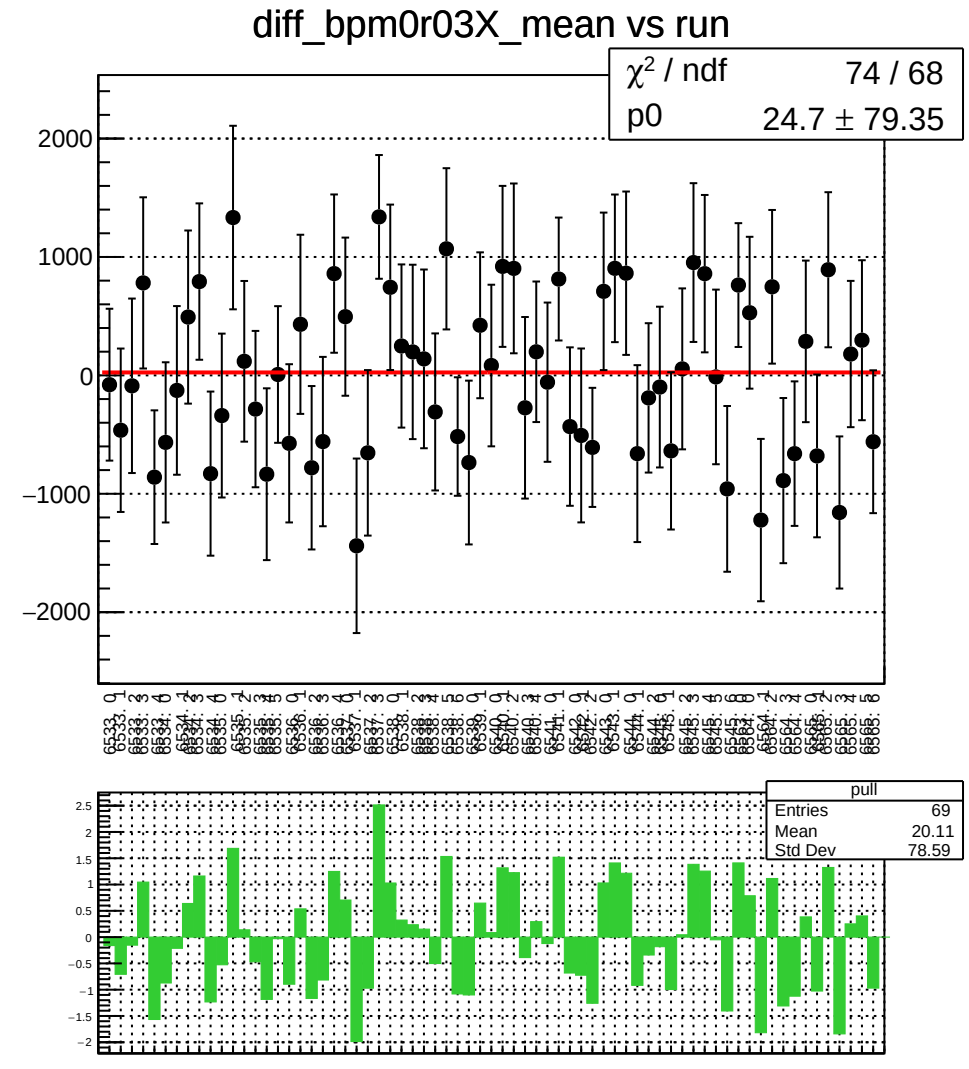

pull1D
Entries 69
Mean −0.01359
Std Dev 1.038

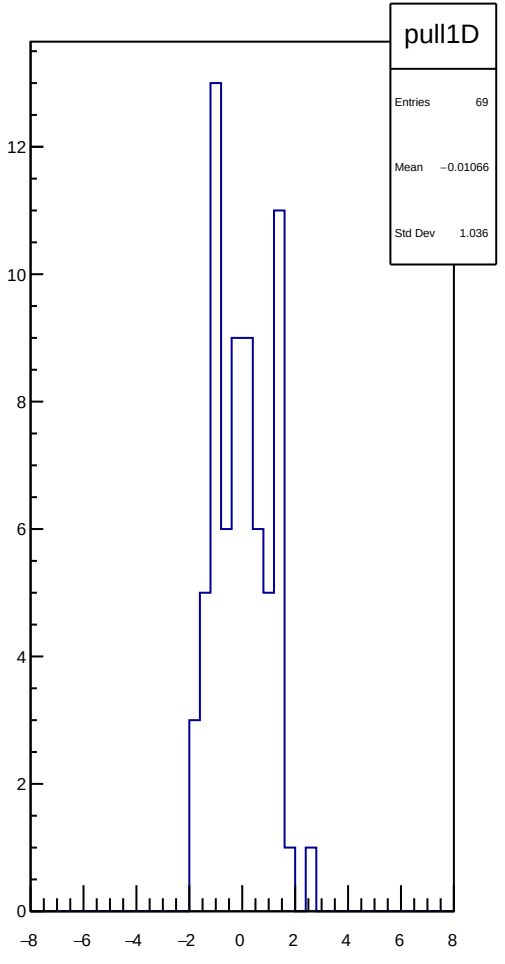

diff_bpm0l10X_rms vs run
χ² / ndf 1.587e+04 / 68
p0 7702 ± 6.638
12000
11000
10000
9000
8000
7000
6000


diff_bpm0l10Y_mean vs run
χ² / ndf 50.18 / 68
p0 −1.374 ± 1.17
pull
Entries 69
Mean 416.9
Std Dev 370.2

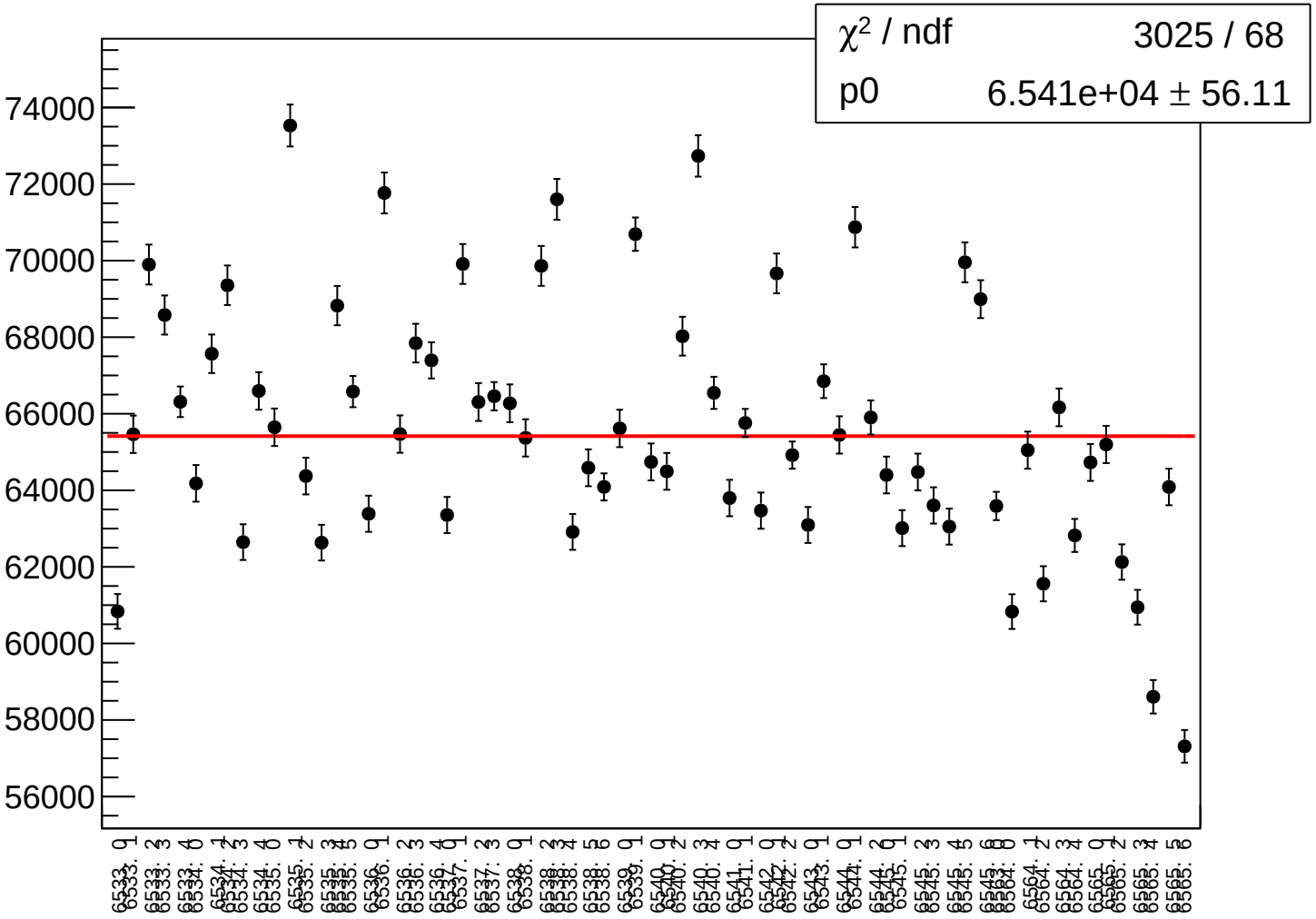

pull1D
Entries 69
Mean 0.004343
Std Dev 0.8527

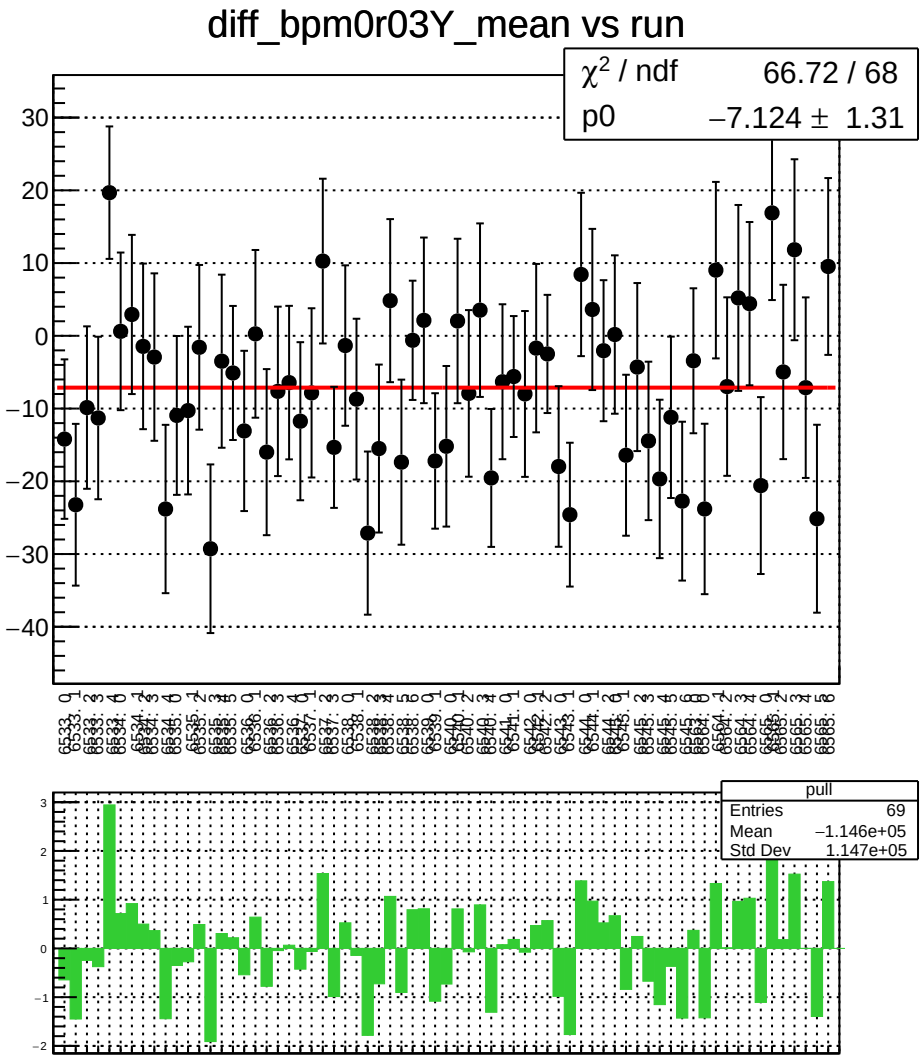

diff_bpm0l10Y_rms vs run
χ² / ndf 405 / 68
p0 965.3 ± 0.8272
1040
1020
1000
980
960
940

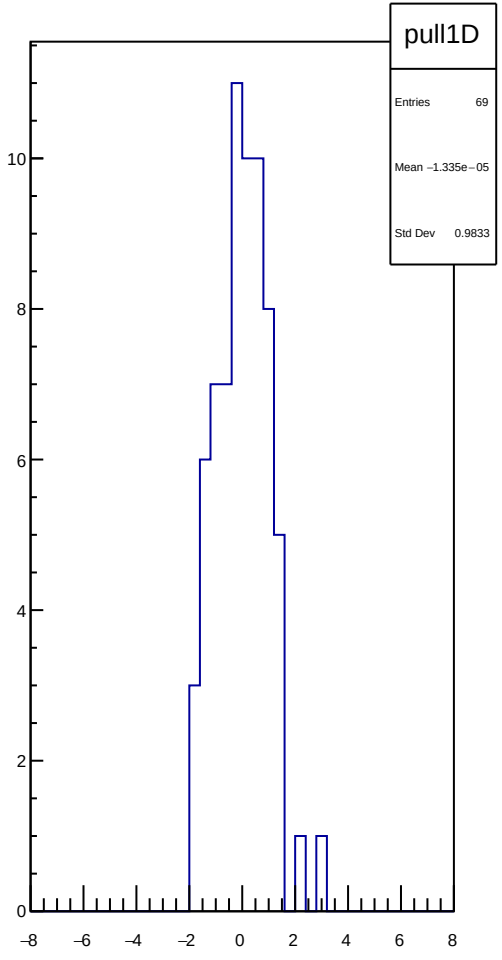

diff_bpm0r03X_mean vs run
χ² / ndf 74 / 68
p0 24.7 ± 79.35
pull
Entries 69
Mean 20.11
Std Dev 78.59

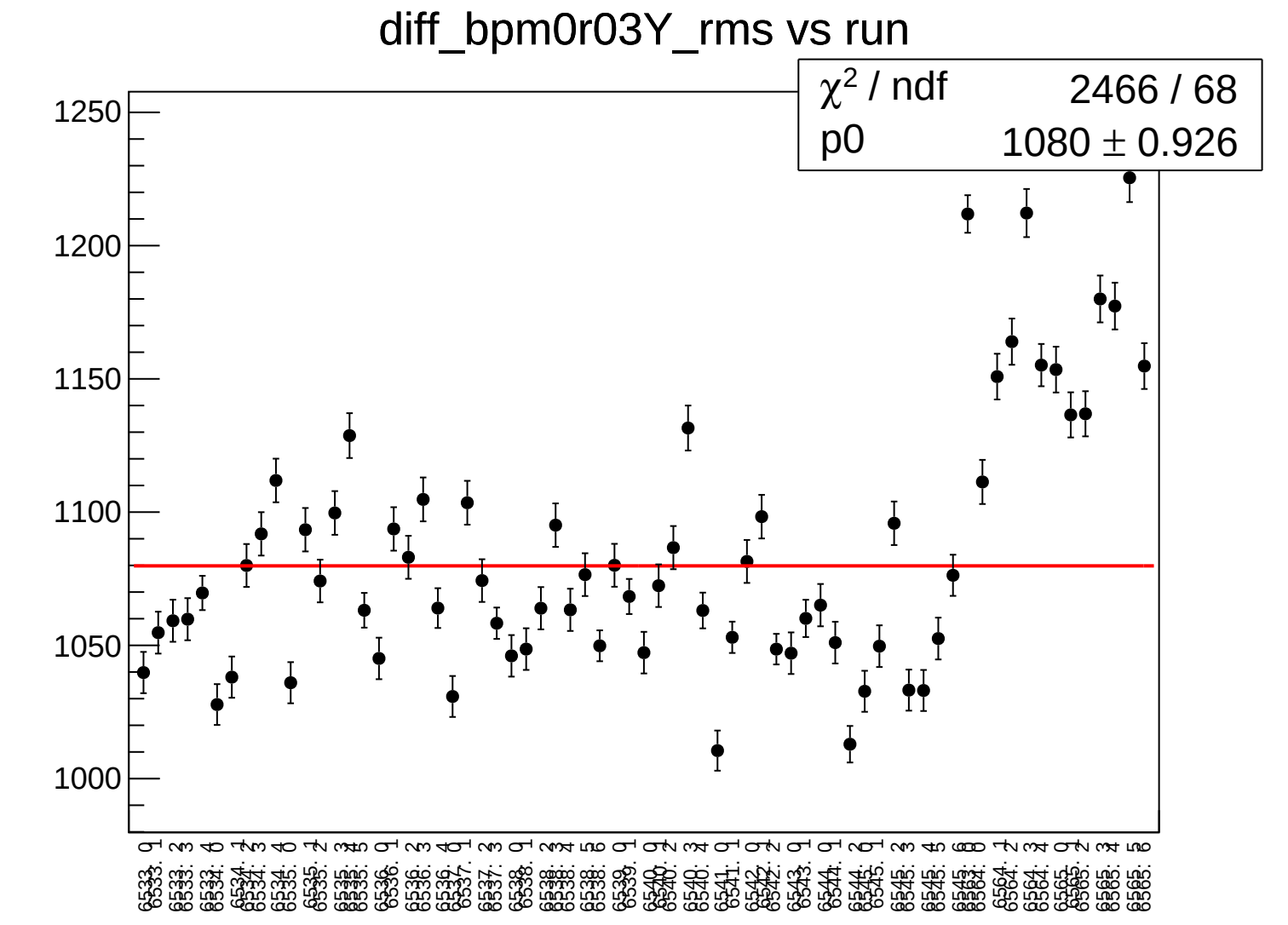

pull1D
Entries 69
Mean −0.01066
Std Dev 1.036

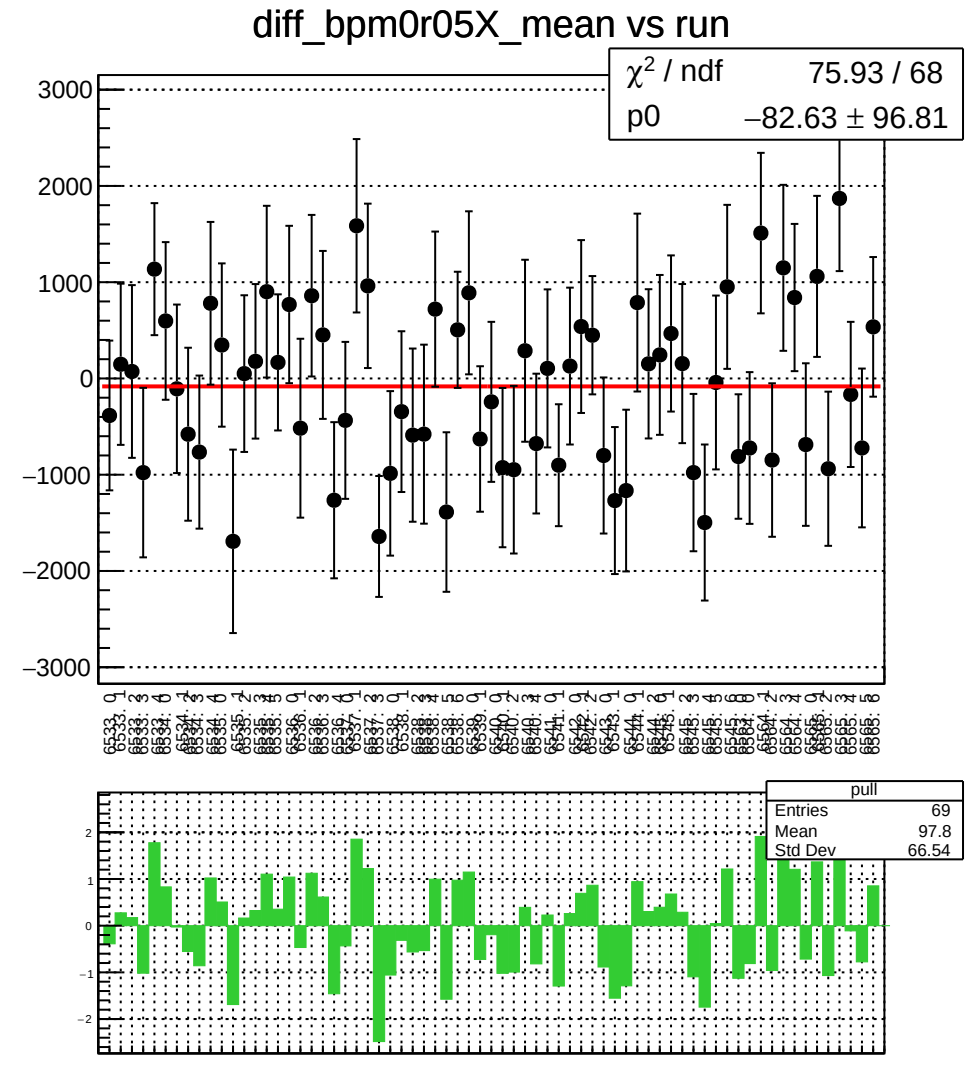
# diff_bpm0r03X_rms vs run

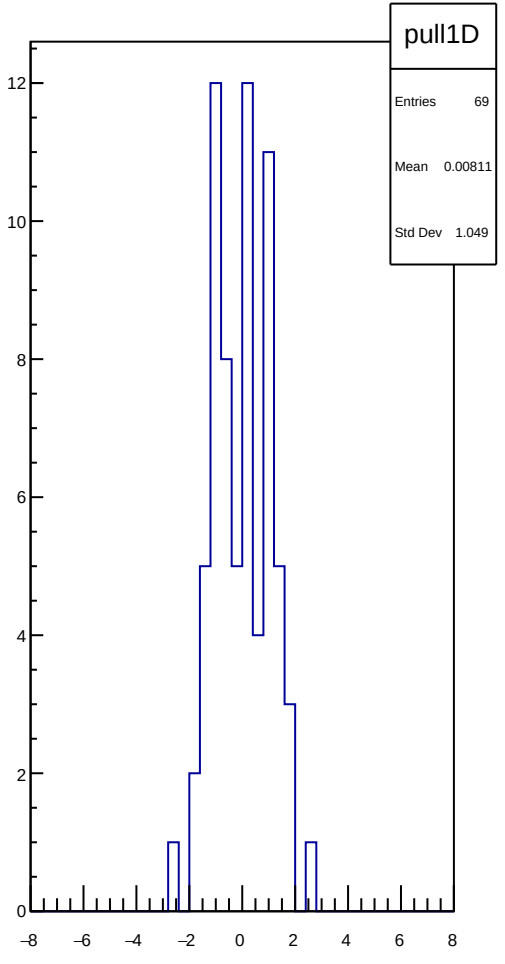


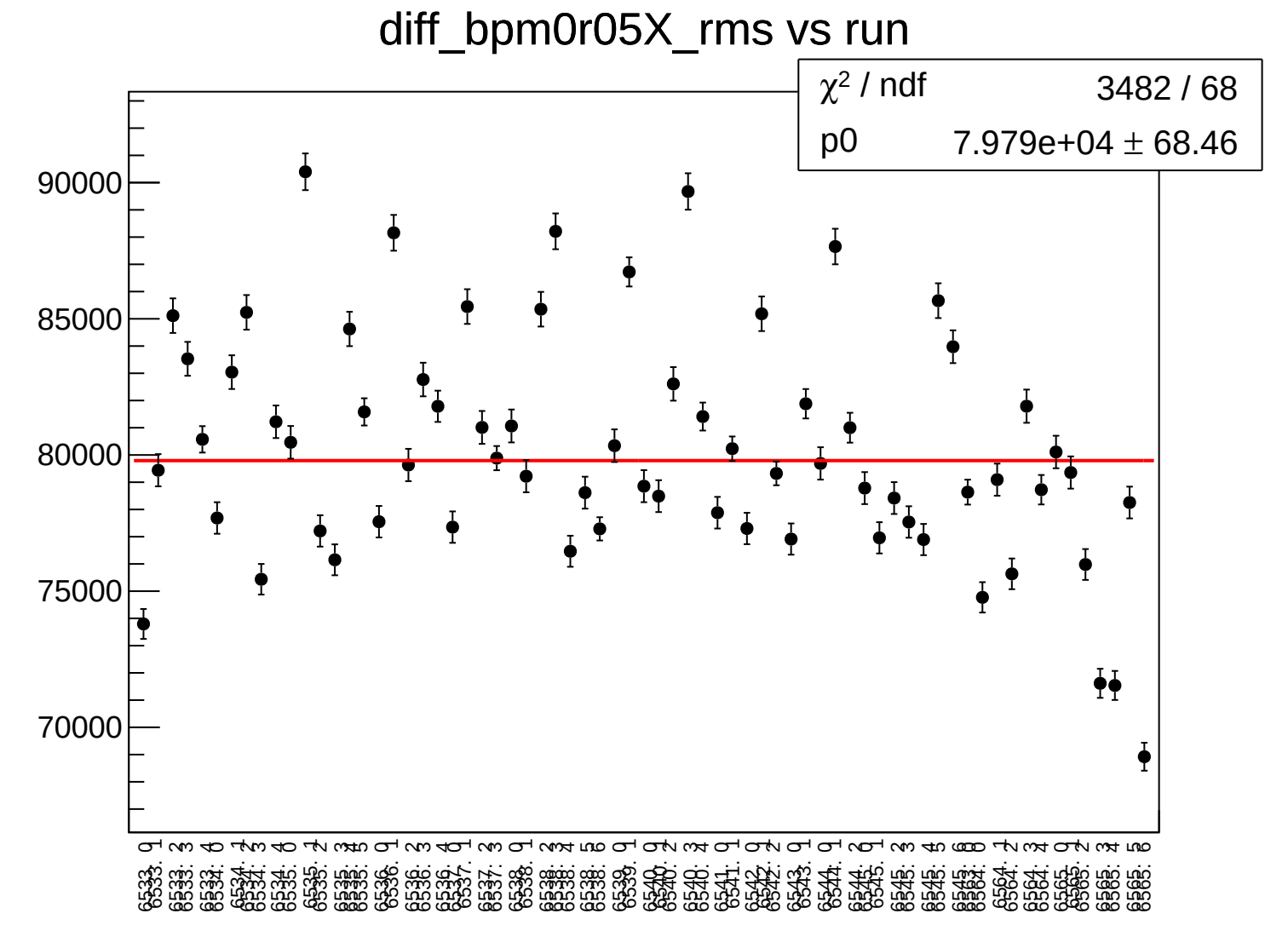

diff_bpm0r03Y_mean vs run
χ² / ndf 66.72 / 68
p0 −7.124 ± 1.31
pull
Entries 69
Mean −1.146e+05
Std Dev 1.147e+05

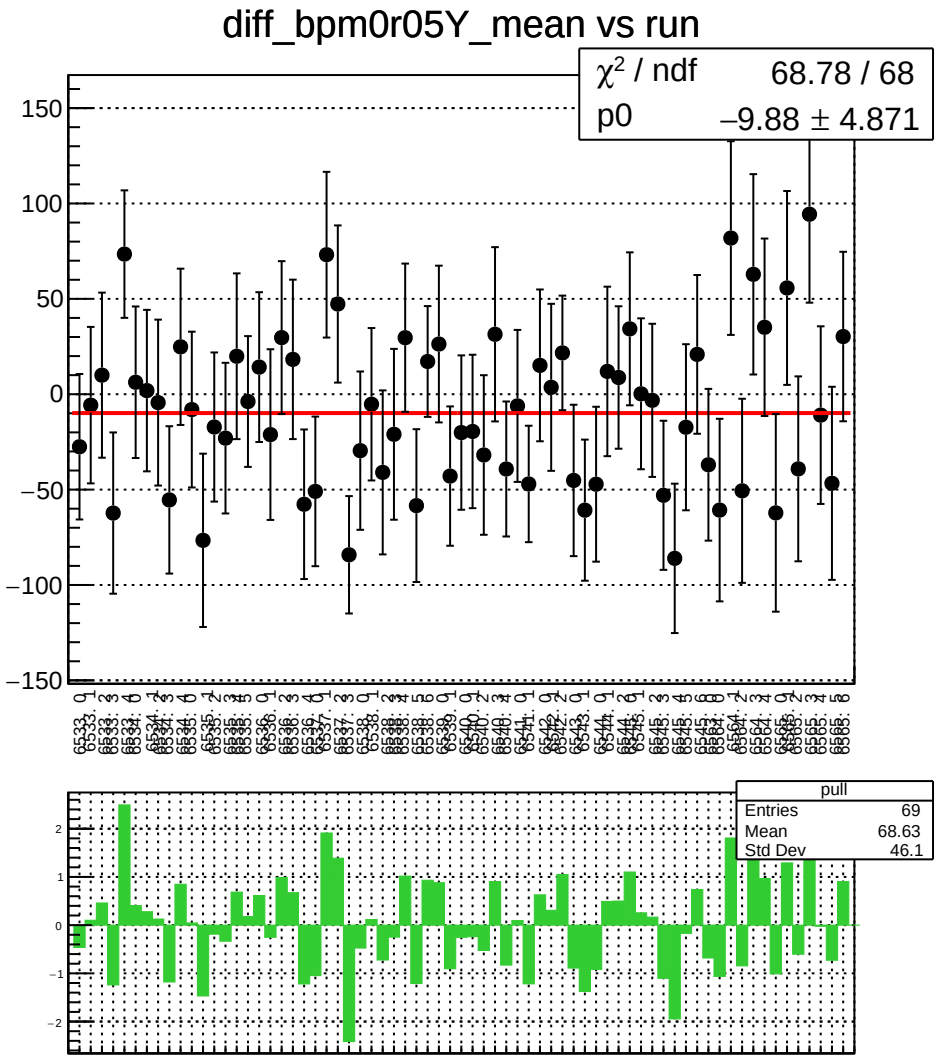

pull1D
Entries 69
Mean −1.335e−05
Std Dev 0.9833

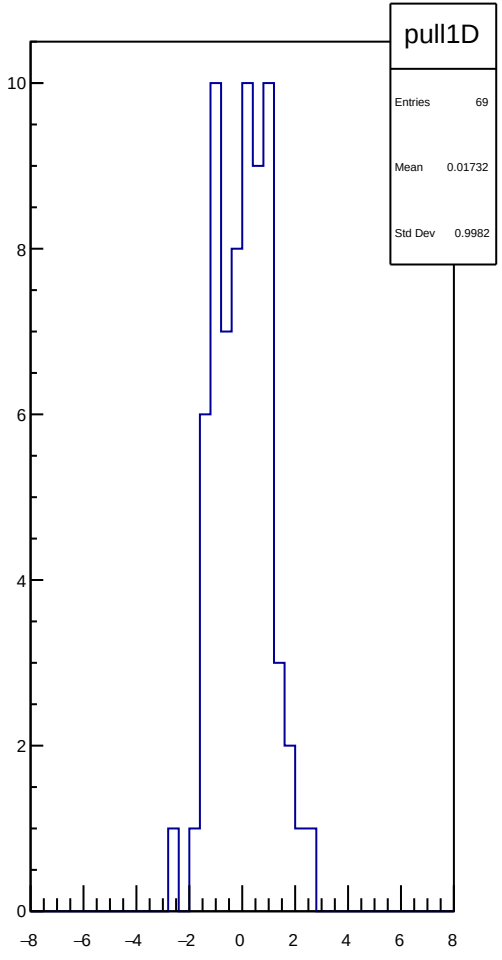

diff_bpm0r03Y_rms vs run
χ² / ndf 2466 / 68
p0 1080 ± 0.926
1250
1200
1150
1100
1050
1000

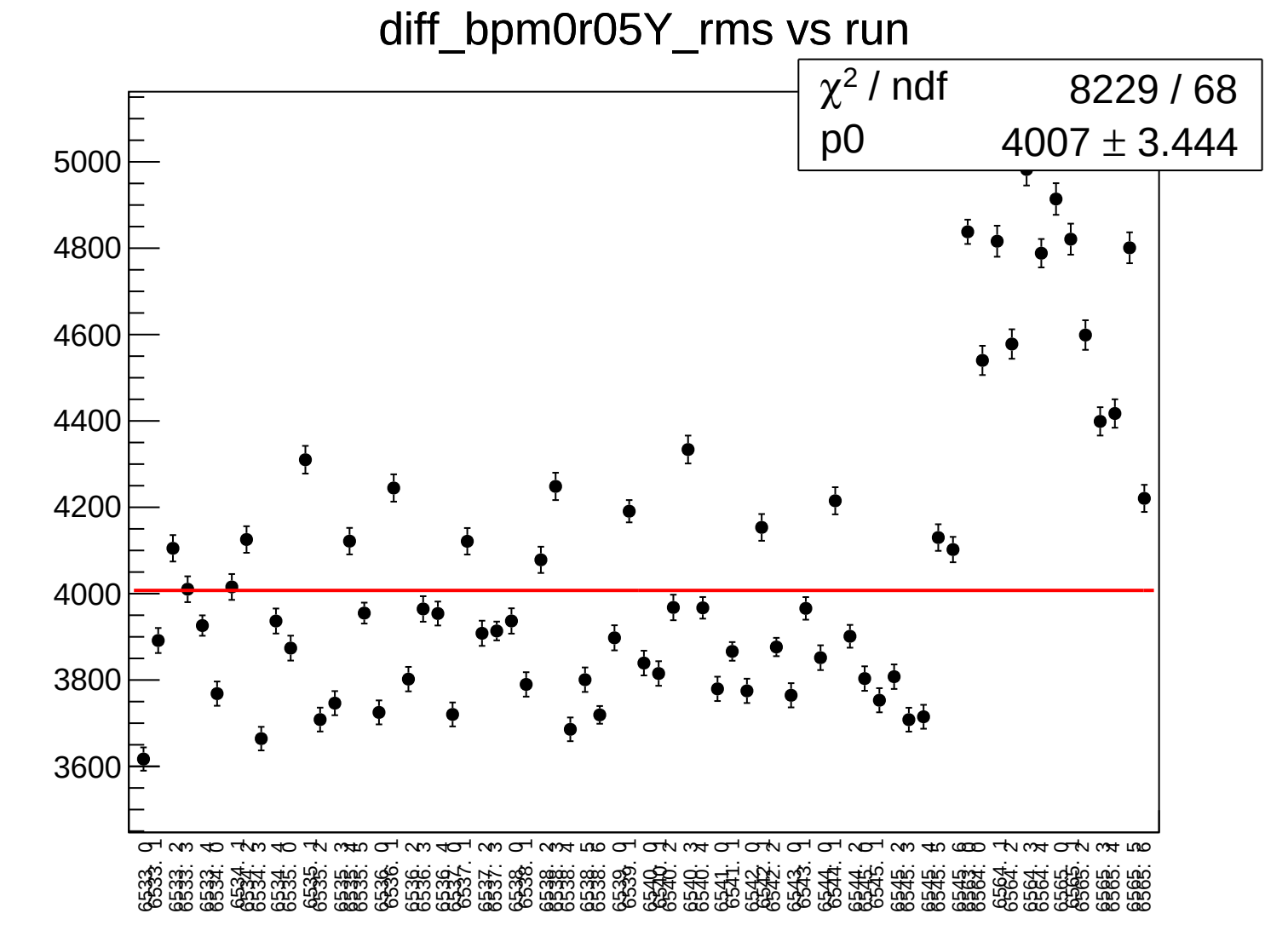

diff_bpm0r05X_mean vs run
χ² / ndf 75.93 / 68
p0 −82.63 ± 96.81
pull
Entries 69
Mean 97.8
Std Dev 66.54

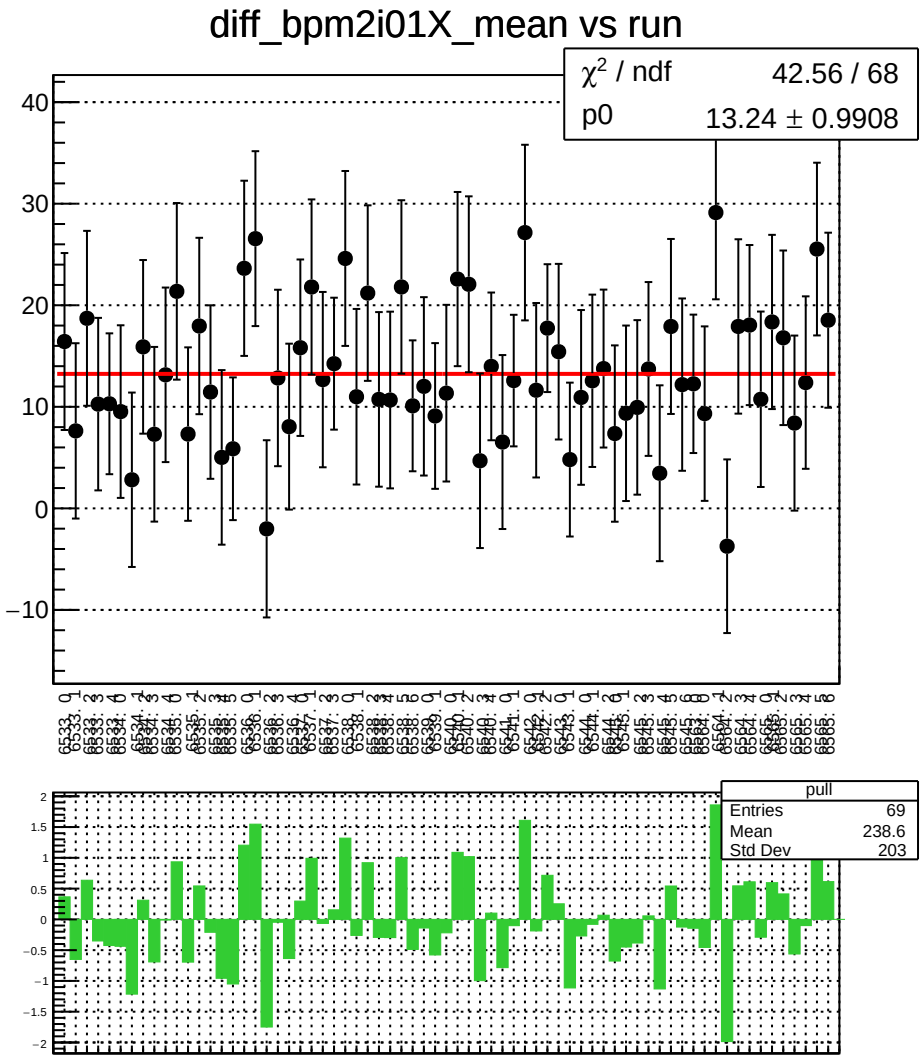

pull1D
Entries 69
Mean 0.00811
Std Dev 1.049

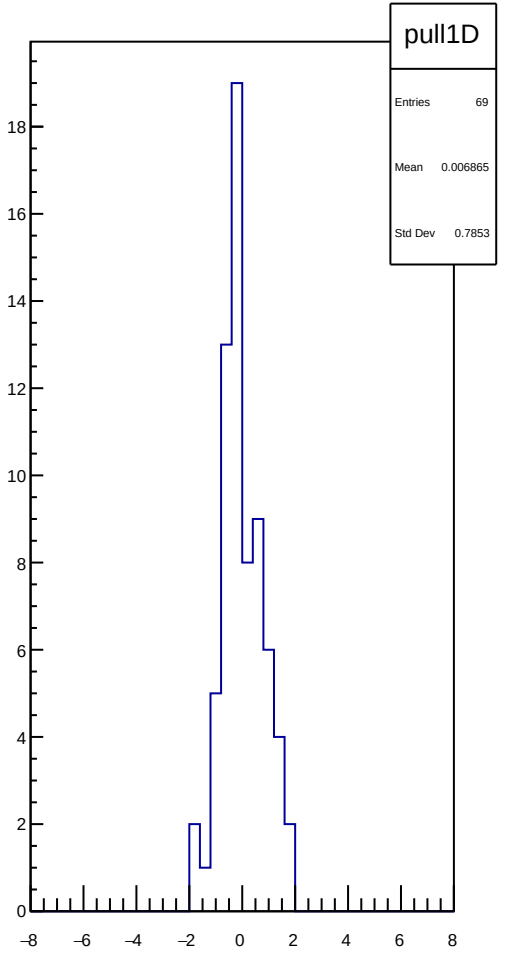

diff_bpm0r05X_rms vs run
χ² / ndf 3482 / 68
p0 7.979e+04 ± 68.46
90000
85000
80000
75000
70000

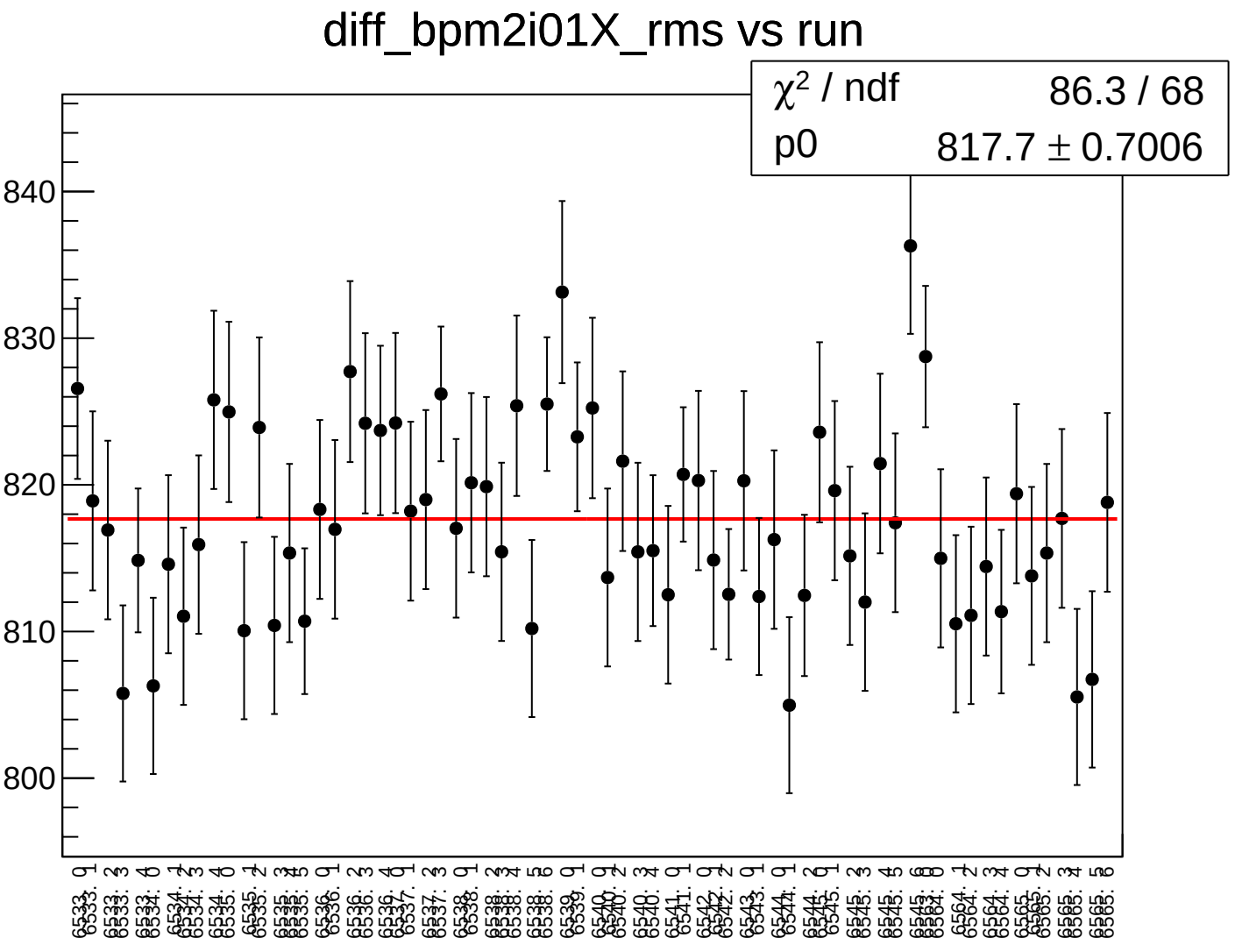

diff_bpm0r05Y_mean vs run
χ² / ndf 68.78 / 68
p0 −9.88 ± 4.871
150
100
50
0
−50
−100
−150
pull
Entries 69
Mean 68.63
Std Dev 46.1
2
1
0
−1
−2

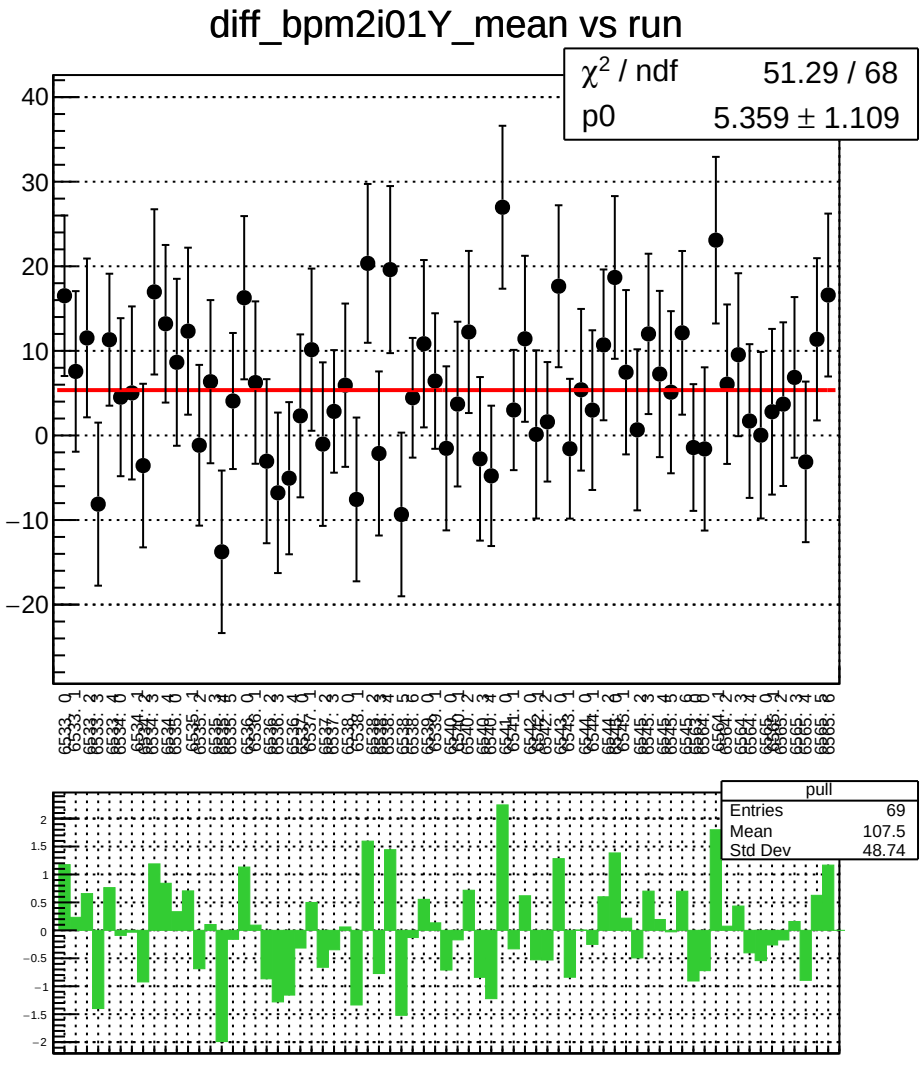

pull1D
Entries 69
Mean 0.01732
Std Dev 0.9982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

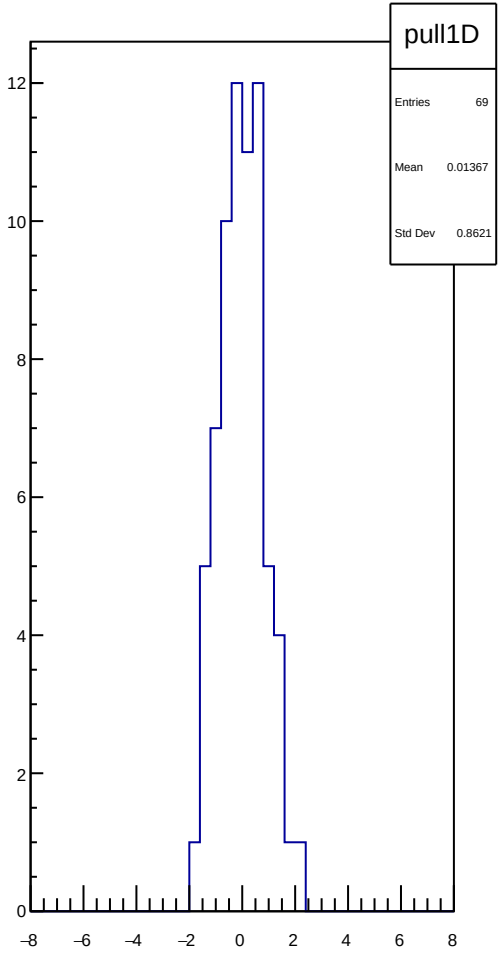

diff_bpm0r05Y_rms vs run
χ² / ndf 8229 / 68
p0 4007 ± 3.444
5000
4800
4600
4400
4200
4000
3800
3600

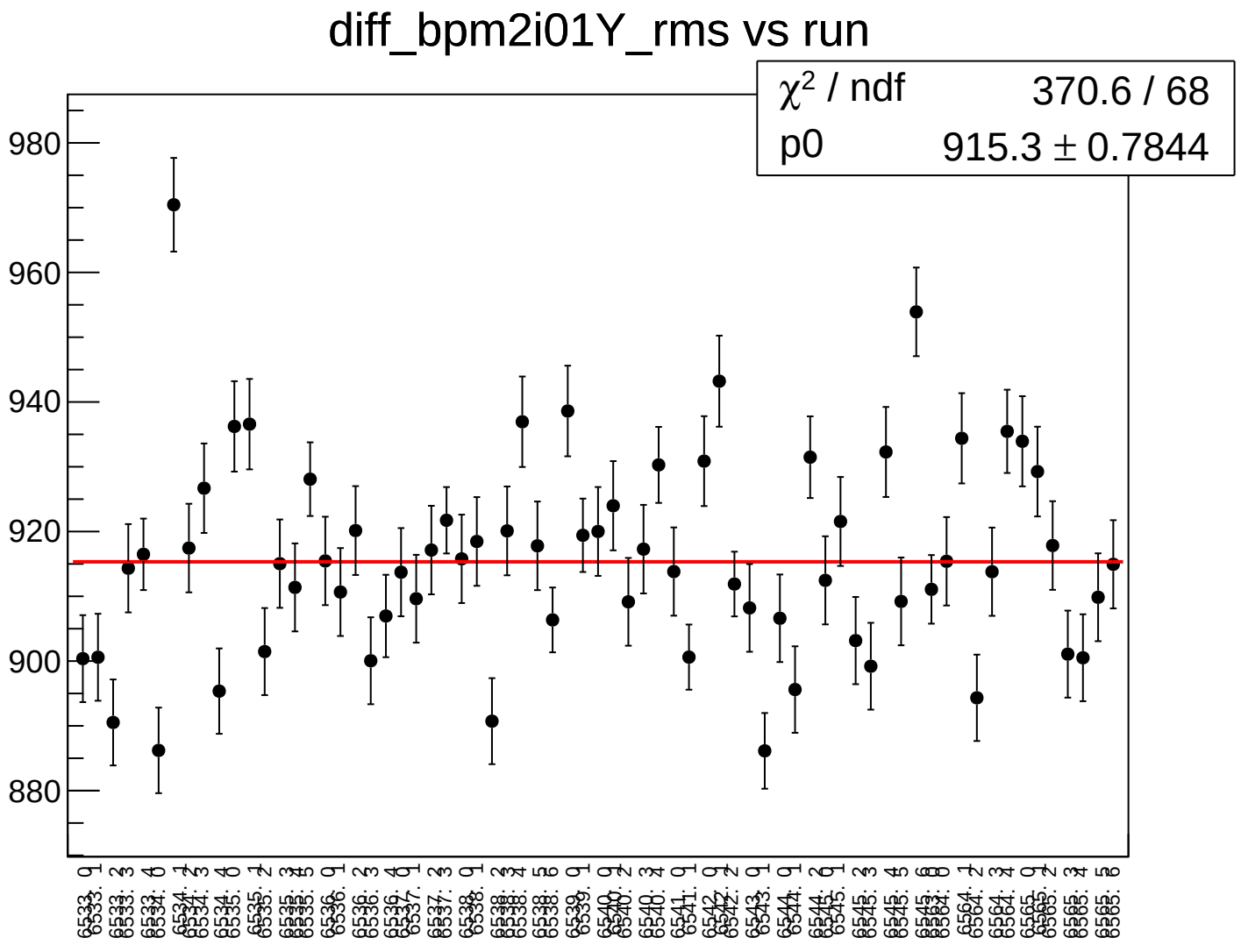

diff_bpm2i01X_mean vs run
χ² / ndf 42.56 / 68
p0 13.24 ± 0.9908
pull
Entries 69
Mean 238.6
Std Dev 203

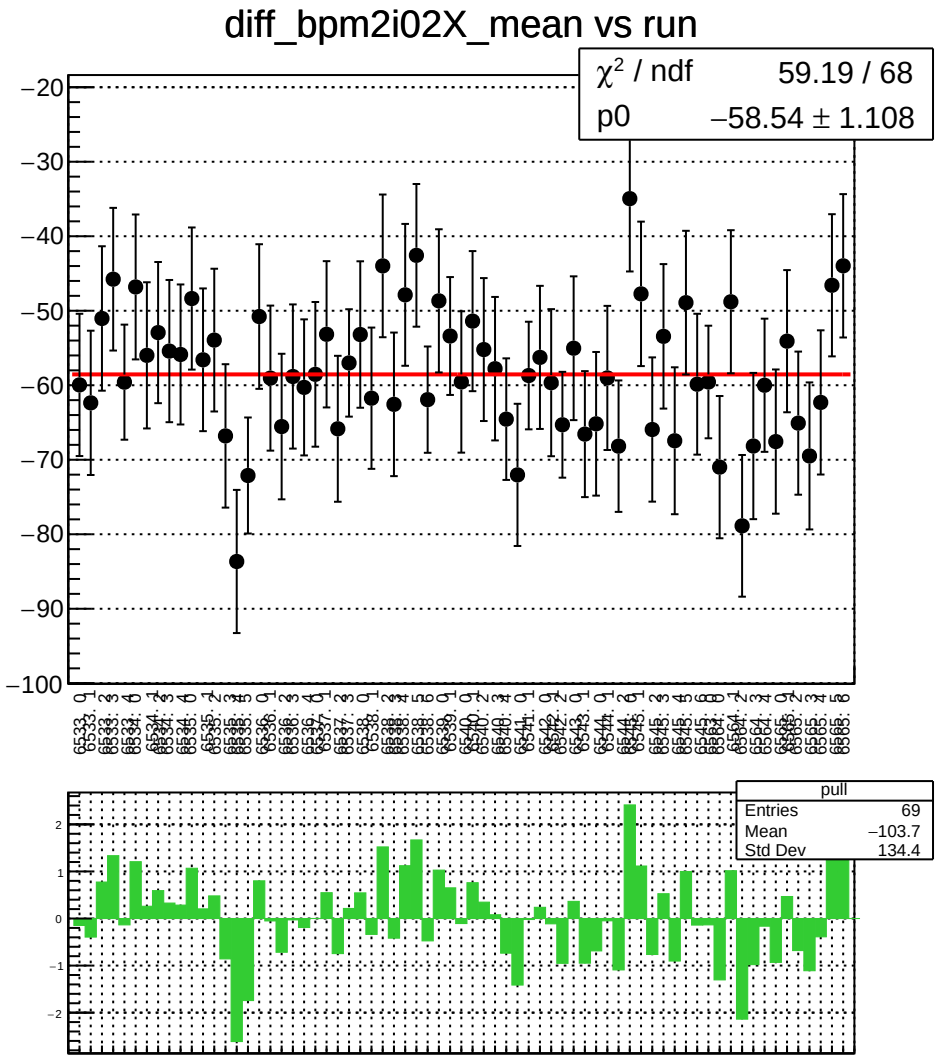

pull1D
Entries 69
Mean 0.006865
Std Dev 0.7853

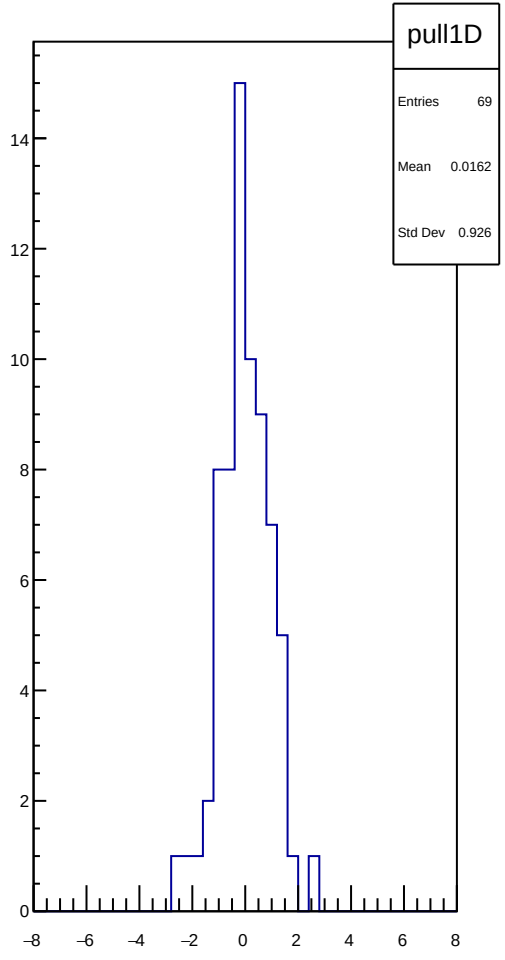

diff_bpm2i01X_rms vs run
χ² / ndf 86.3 / 68
p0 817.7 ± 0.7006
840
830
820
810
800

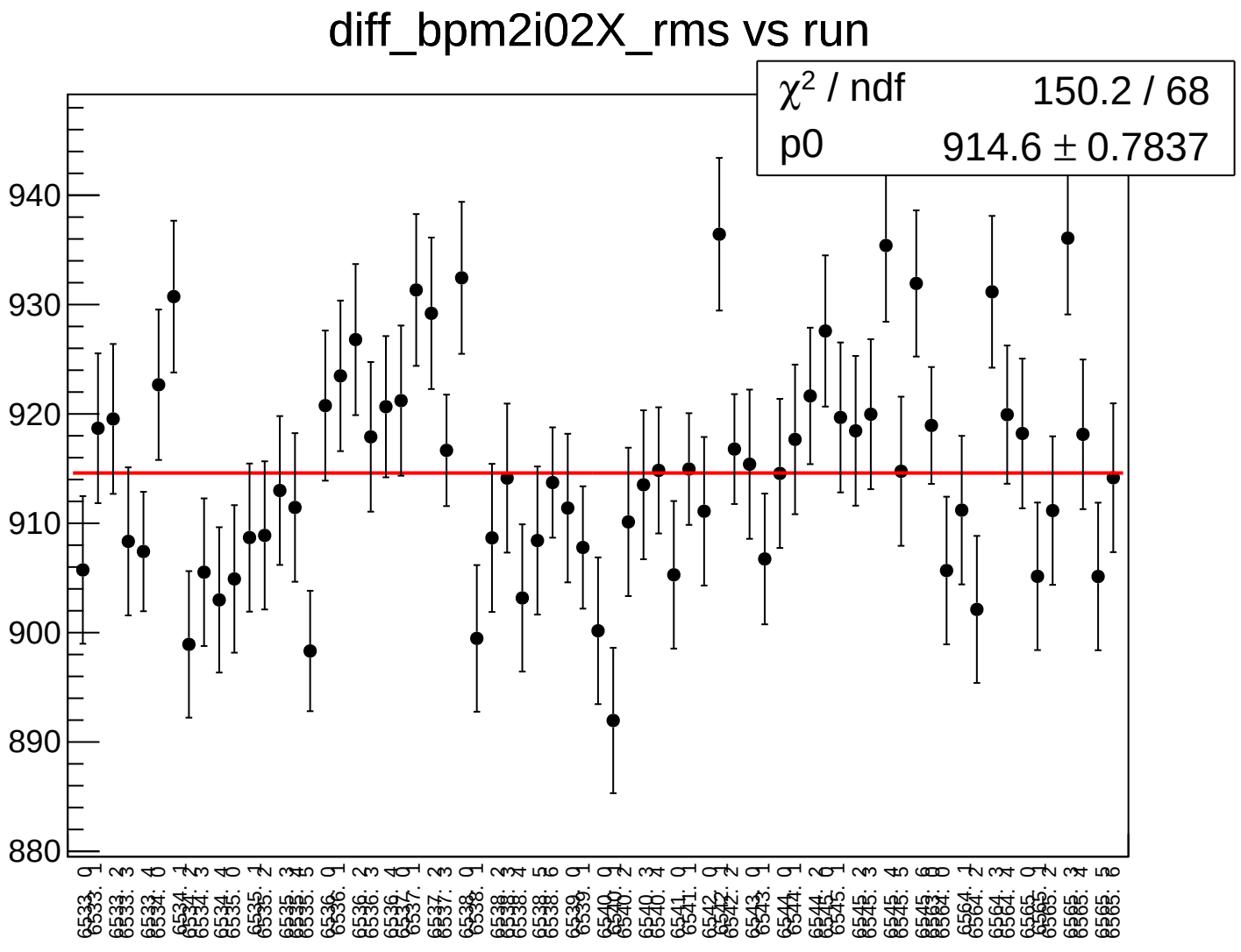

diff_bpm2i01Y_mean vs run
χ² / ndf 51.29 / 68
p0 5.359 ± 1.109
pull
Entries 69
Mean 107.5
Std Dev 48.74

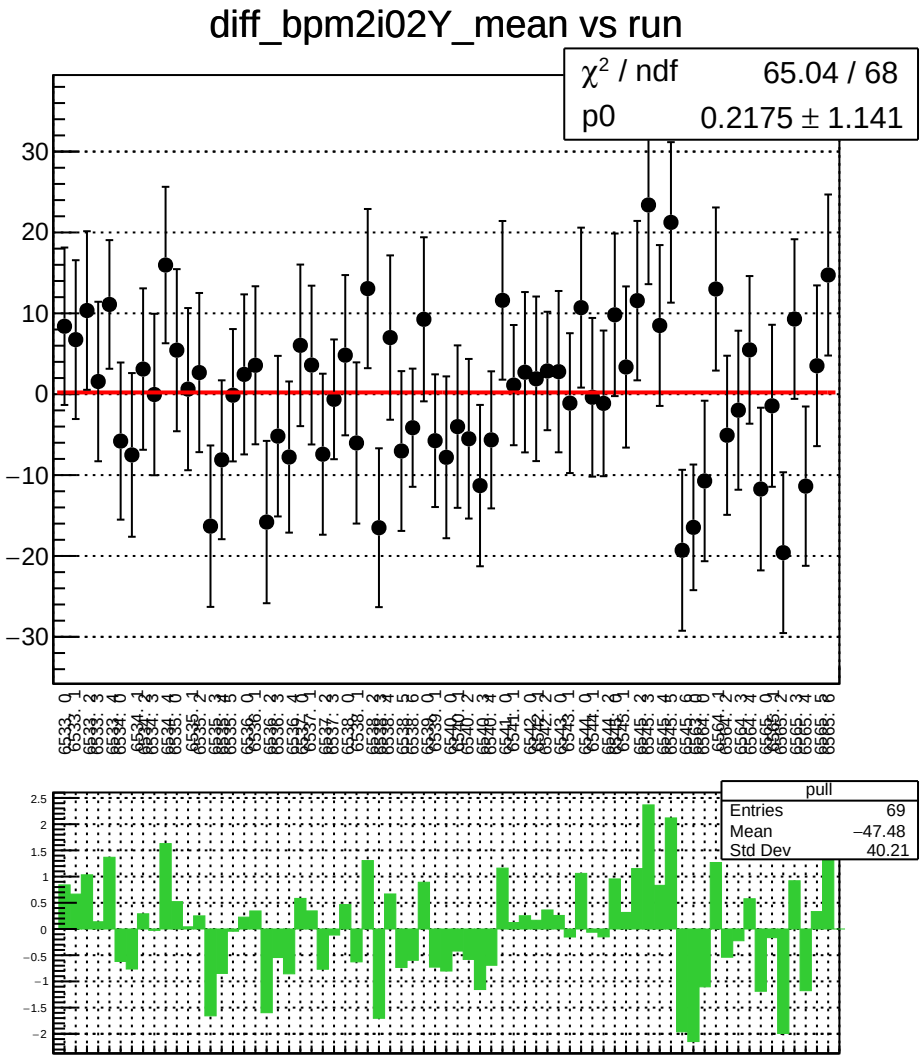

pull1D
Entries 69
Mean 0.01367
Std Dev 0.8621

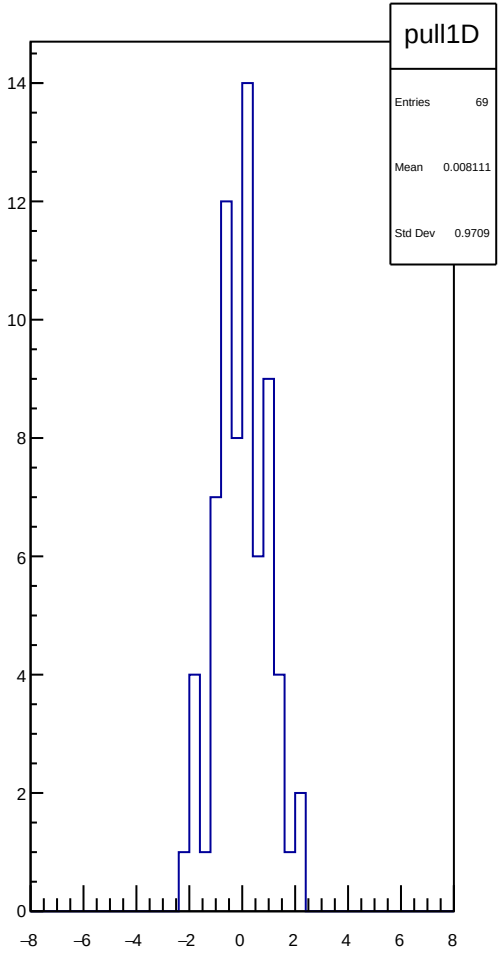

diff_bpm2i01Y_rms vs run
χ² / ndf 370.6 / 68
p0 915.3 ± 0.7844
980
960
940
920
900
880

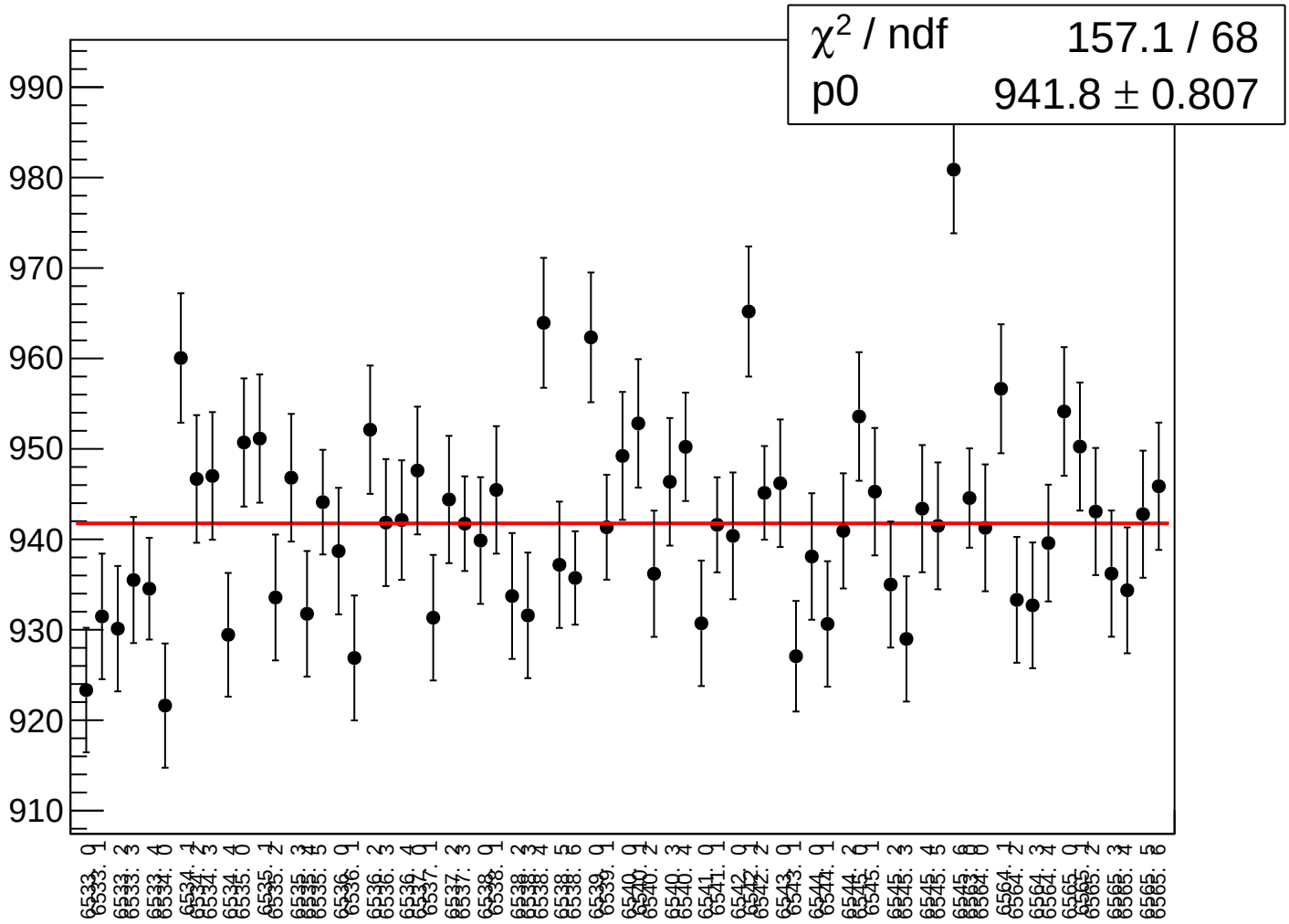

diff_bpm2i02X_mean vs run
χ² / ndf 59.19 / 68
p0 −58.54 ± 1.108
pull
Entries 69
Mean −103.7
Std Dev 134.4

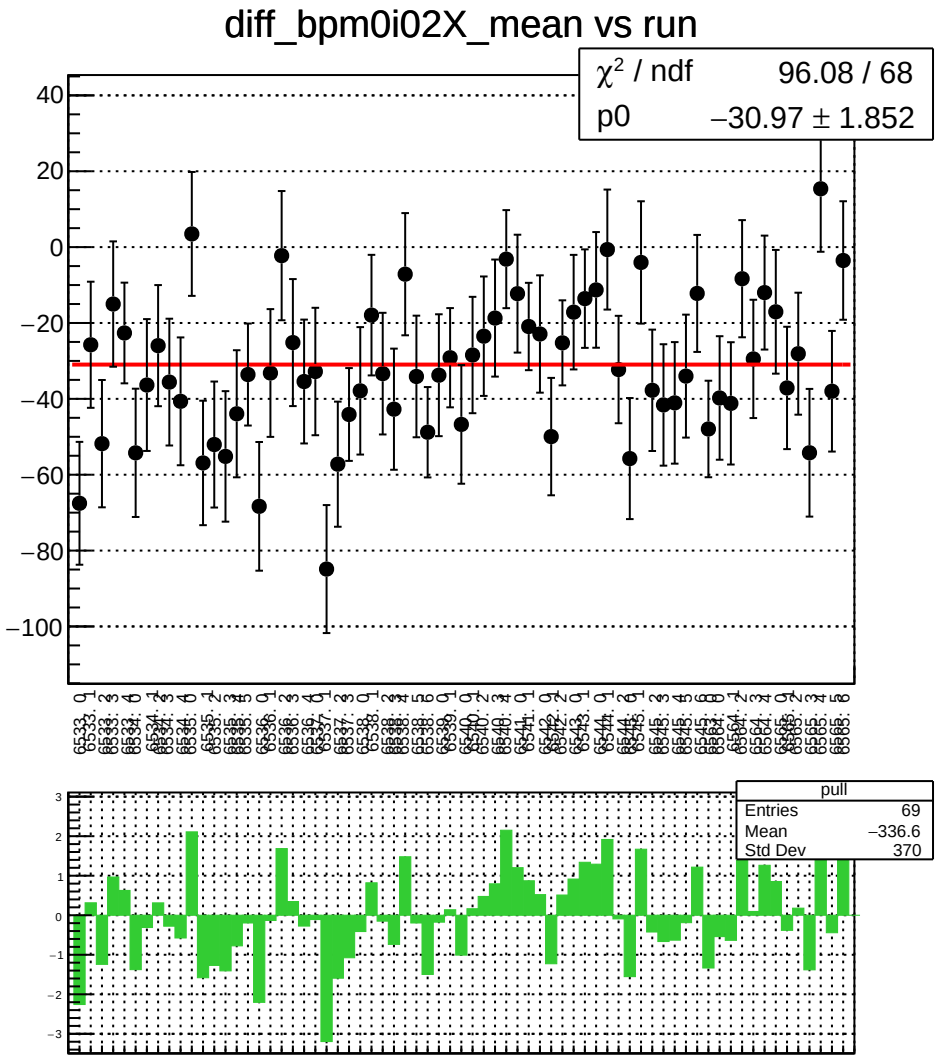

pull1D
Entries 69
Mean 0.0162
Std Dev 0.926

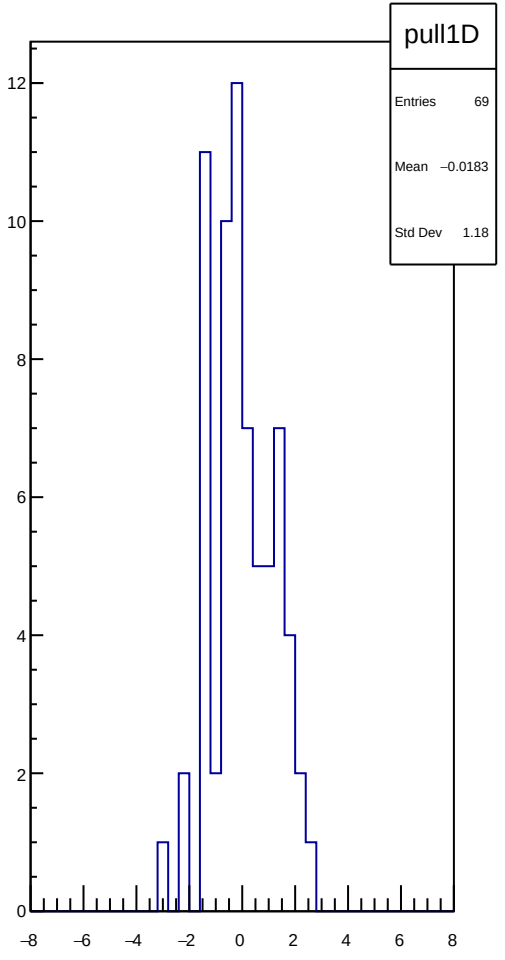

diff_bpm2i02X_rms vs run
χ² / ndf 150.2 / 68
p0 914.6 ± 0.7837
940
930
920
910
900
890
880

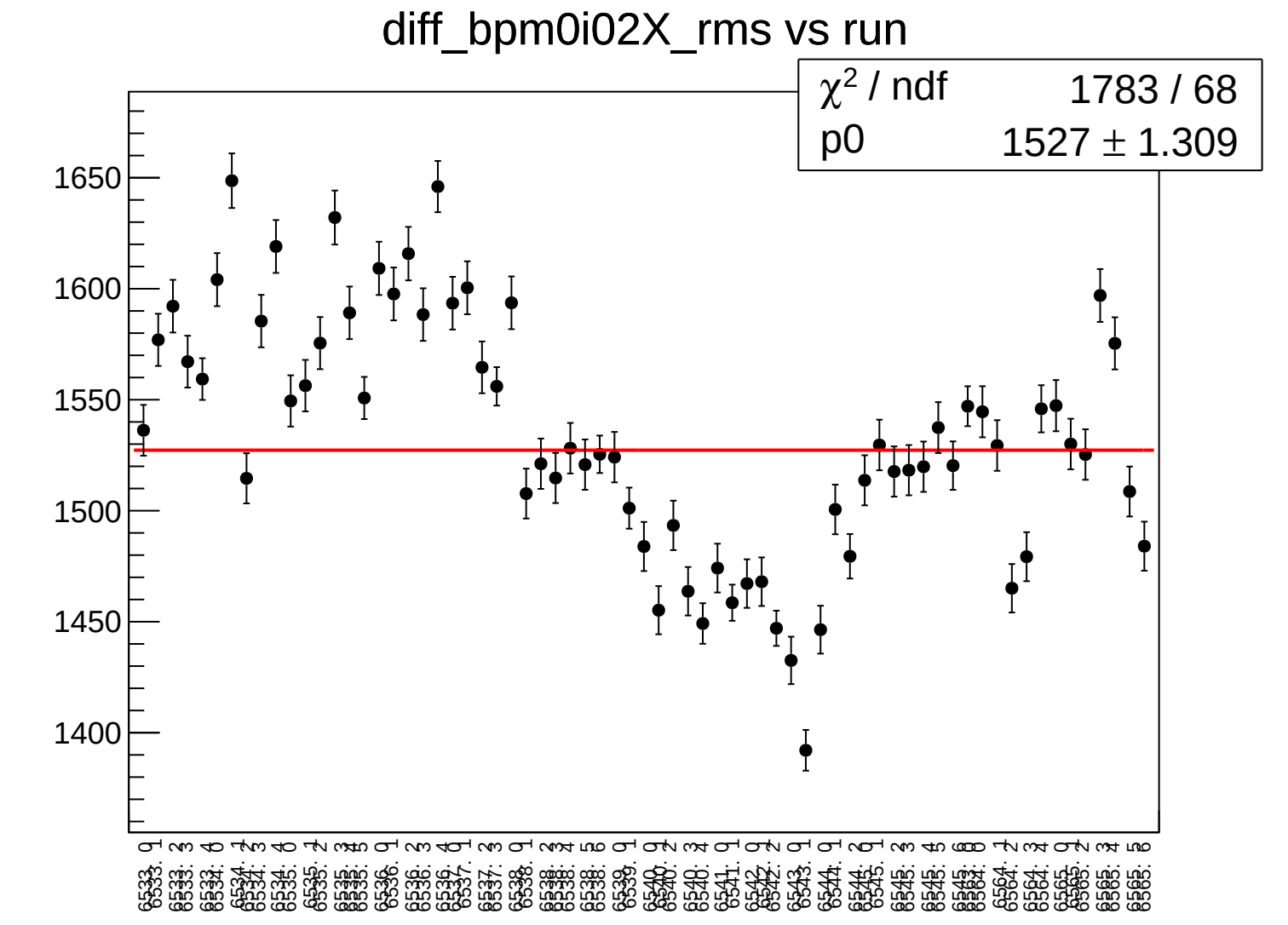

diff_bpm2i02Y_mean vs run
χ² / ndf 65.04 / 68
p0 0.2175 ± 1.141
pull
Entries 69
Mean −47.48
Std Dev 40.21

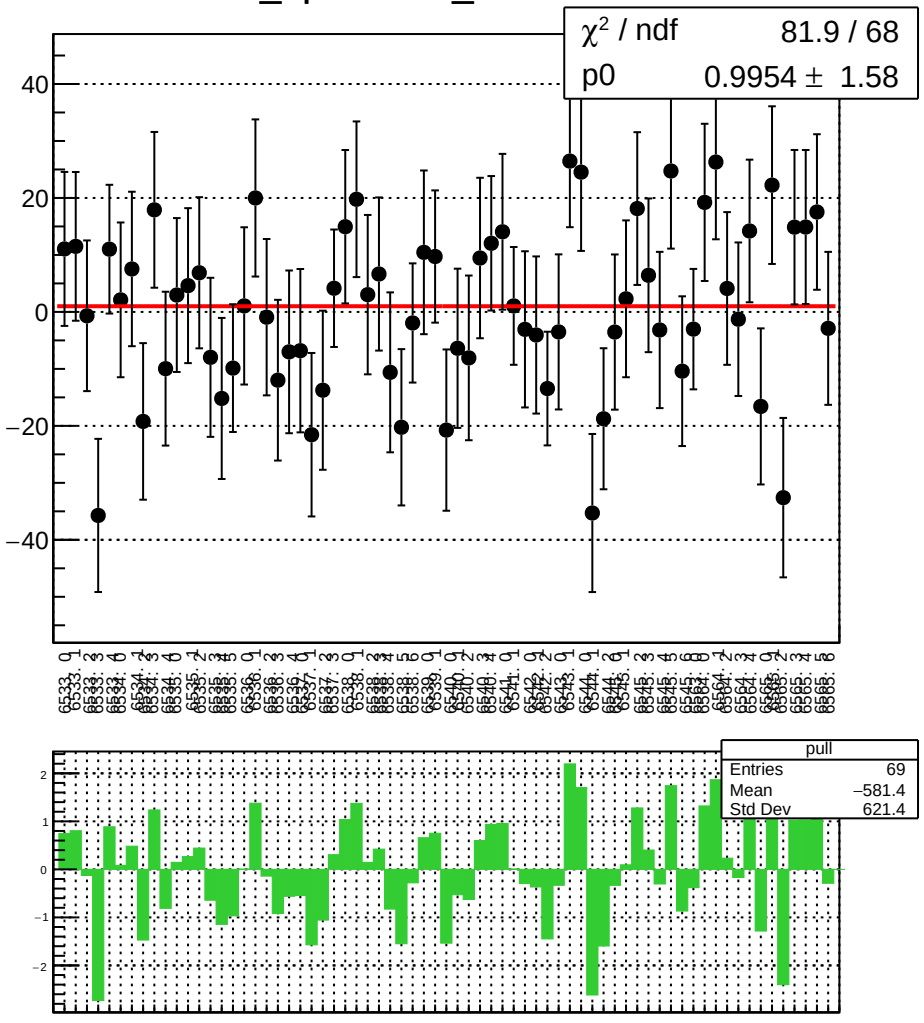

pull1D
Entries 69
Mean 0.008111
Std Dev 0.9709

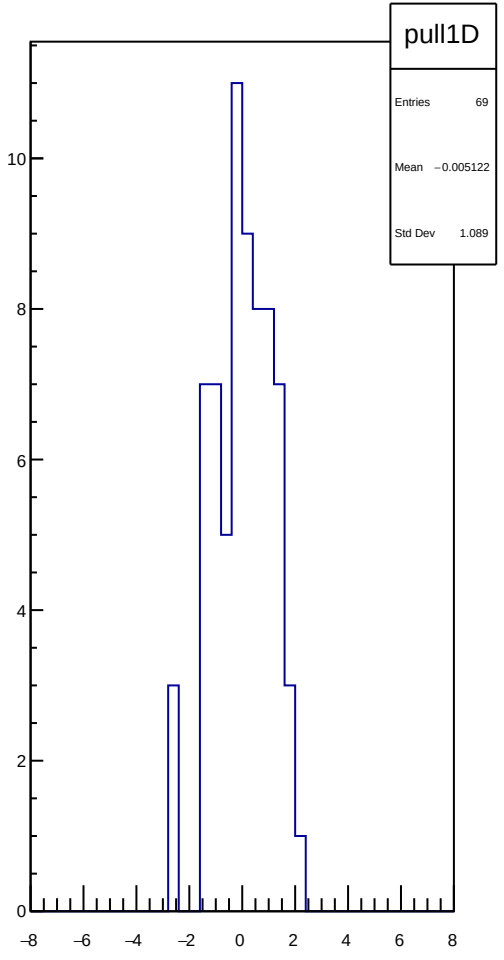

diff_bpm2i02Y_rms vs run
$\chi^2$ / ndf 157.1 / 68
p0 941.8 ± 0.807
990
980
970
960
950
940
930
920
910

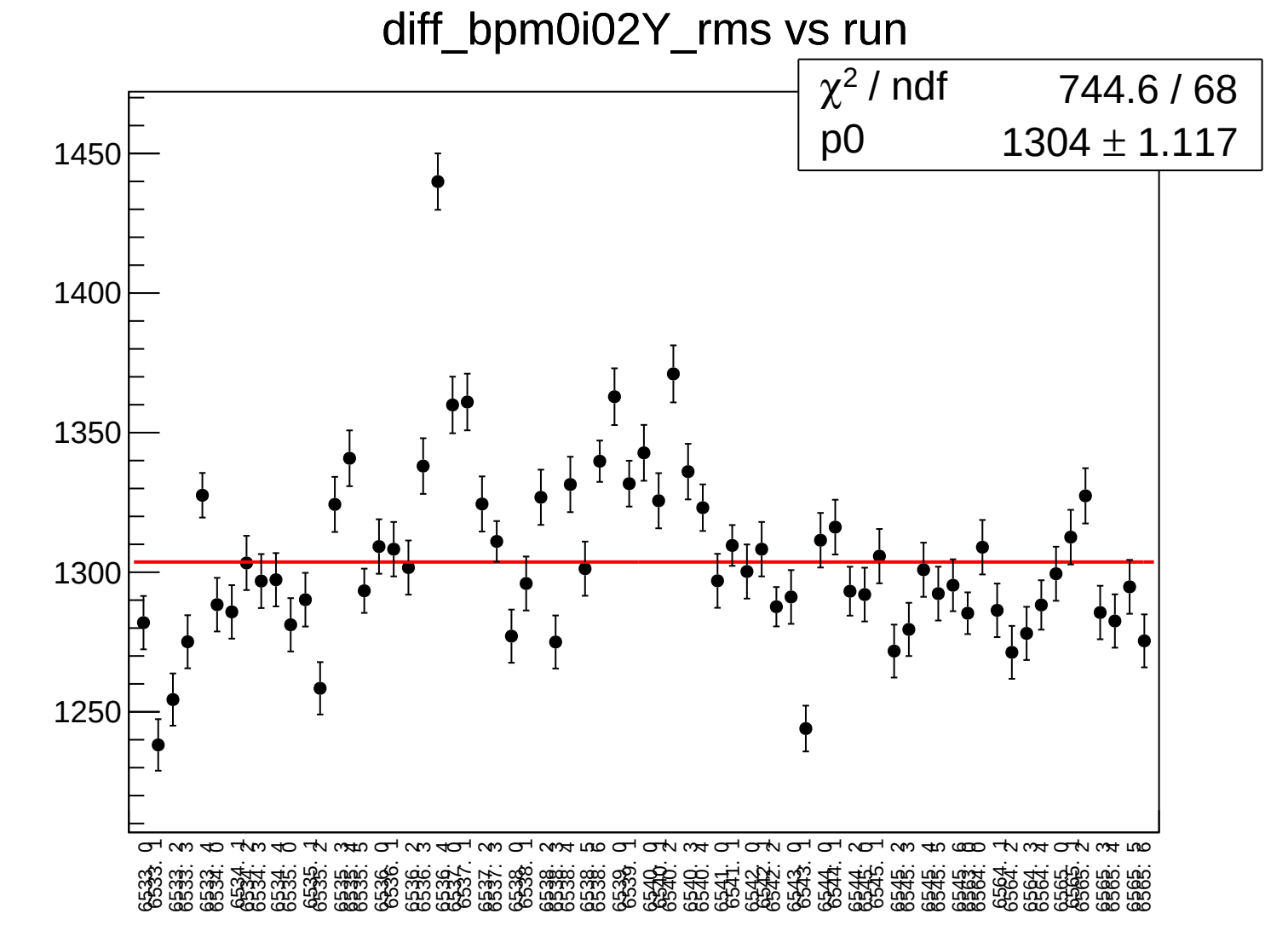

diff_bpm0i02X_mean vs run
χ² / ndf 96.08 / 68
p0 −30.97 ± 1.852
pull
Entries 69
Mean −336.6
Std Dev 370

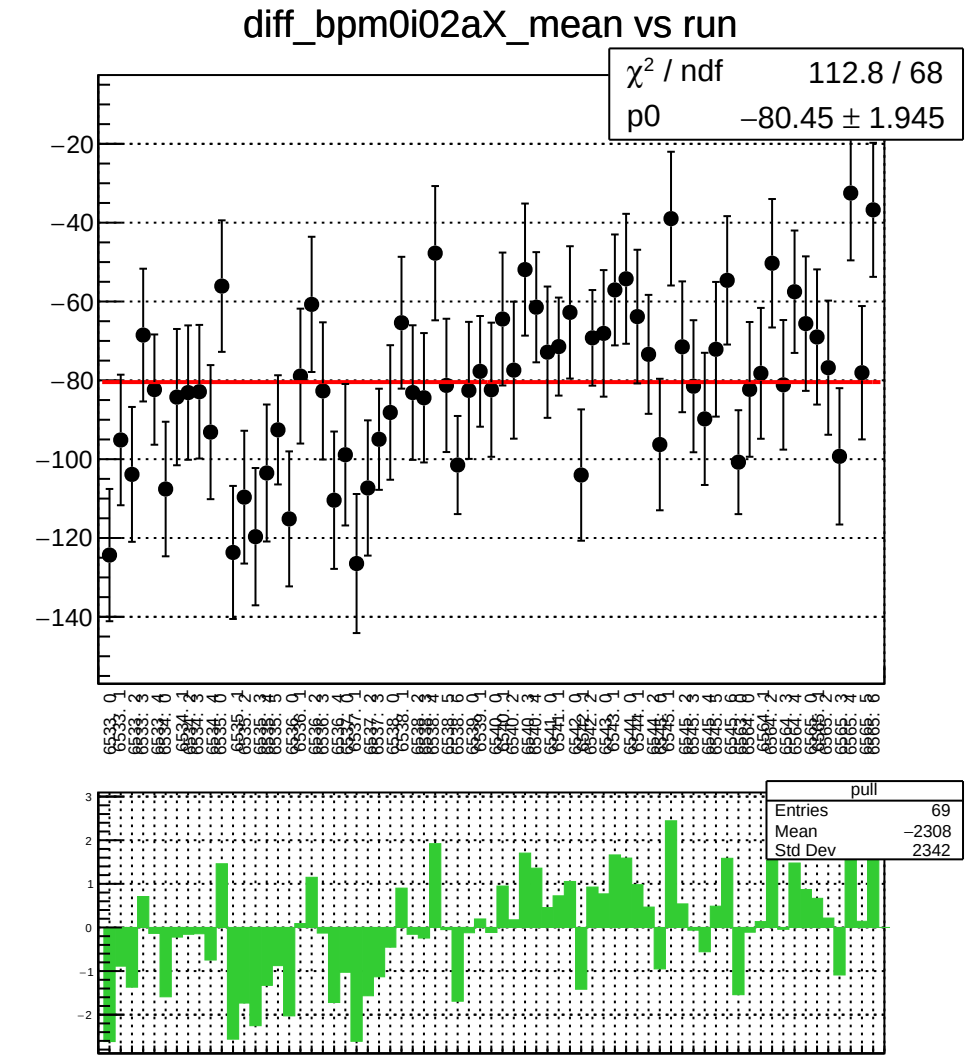

pull1D
Entries 69
Mean −0.0183
Std Dev 1.18

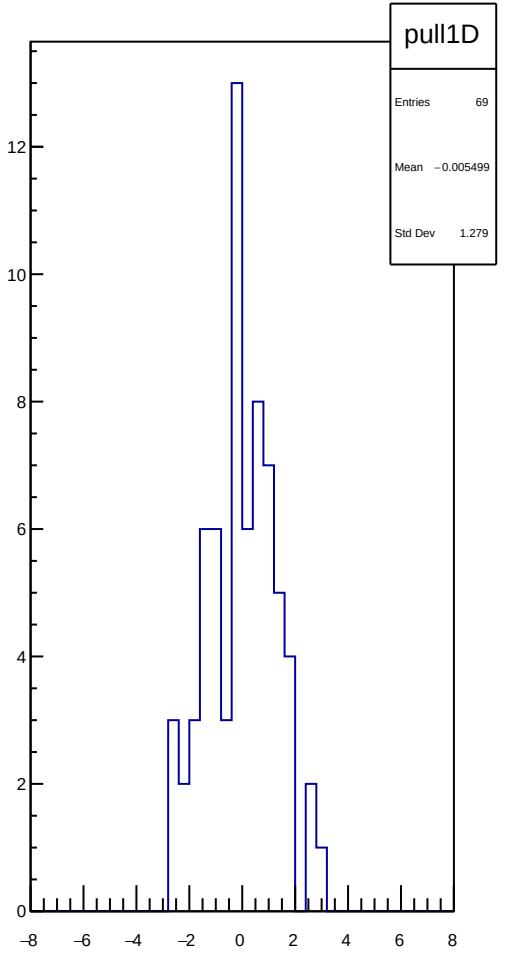

diff_bpm0i02X_rms vs run
χ² / ndf 1783 / 68
p0 1527 ± 1.309
1650
1600
1550
1500
1450
1400

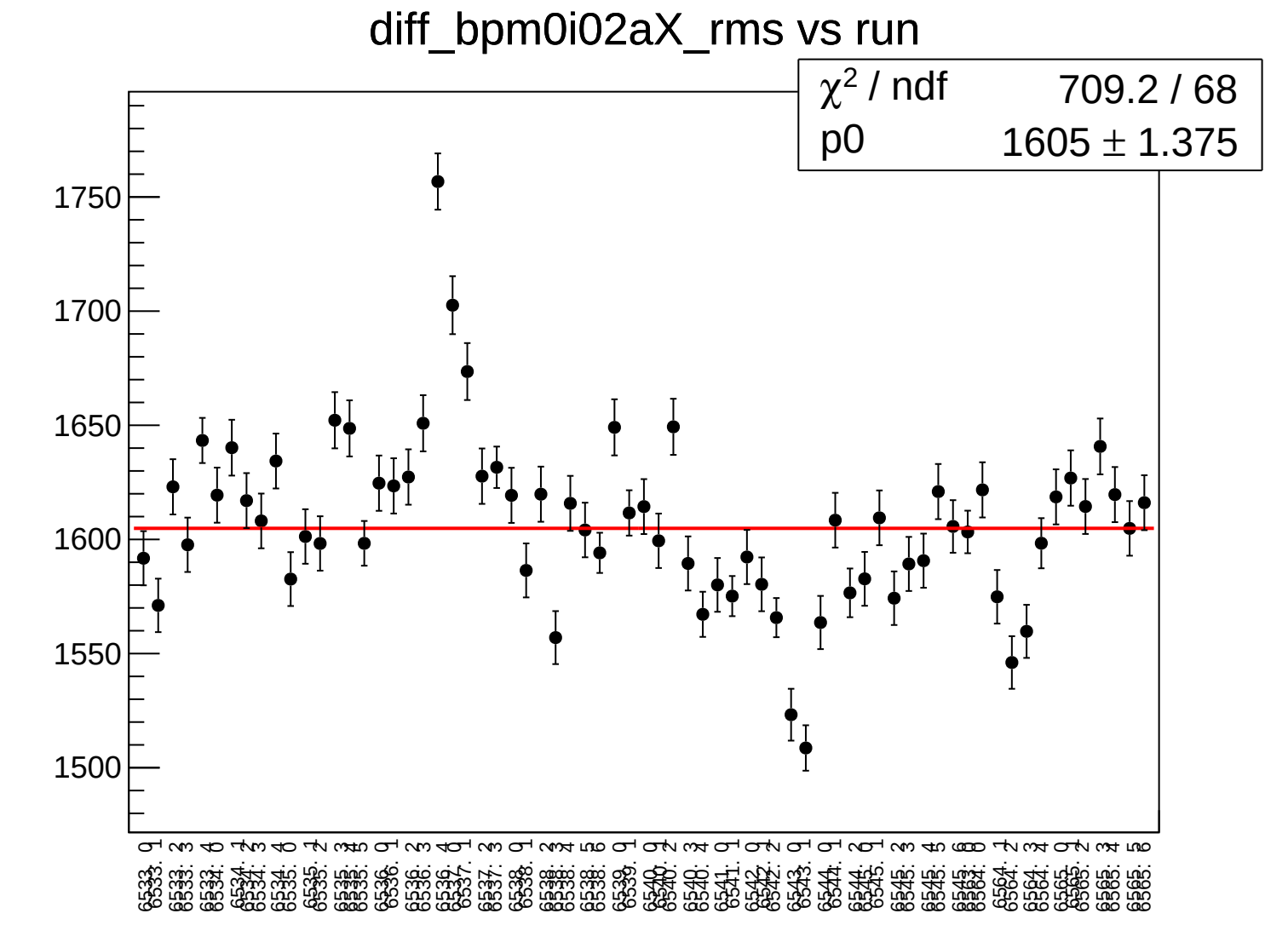

diff_bpm0i02Y_mean vs run
χ² / ndf 81.9 / 68
p0 0.9954 ± 1.58
pull
Entries 69
Mean −581.4
Std Dev 621.4

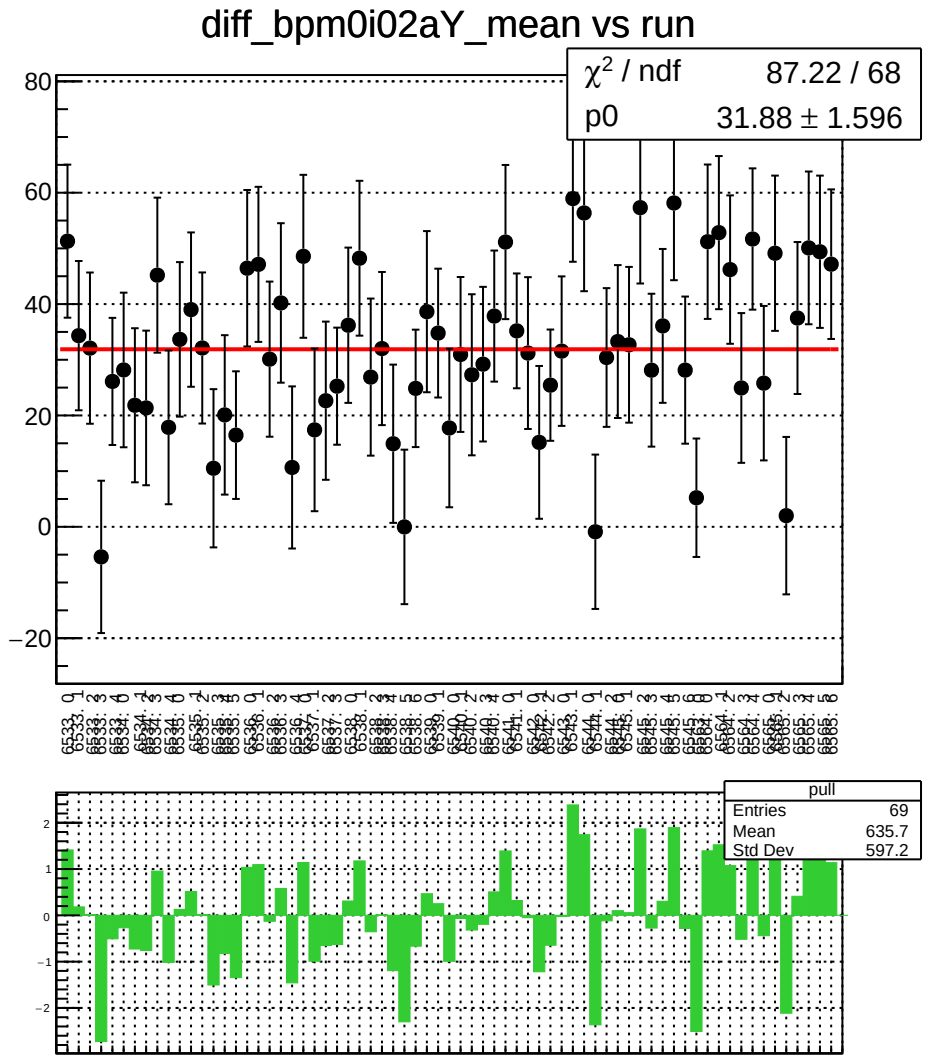

pull1D
Entries 69
Mean −0.005122
Std Dev 1.089

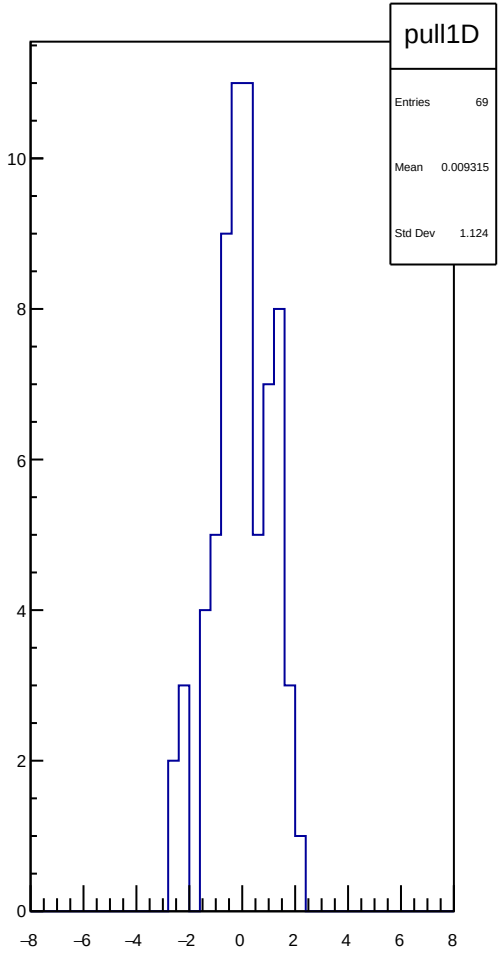

diff_bpm0i02Y_rms vs run
χ² / ndf 744.6 / 68
p0 1304 ± 1.117
1450
1400
1350
1300
1250

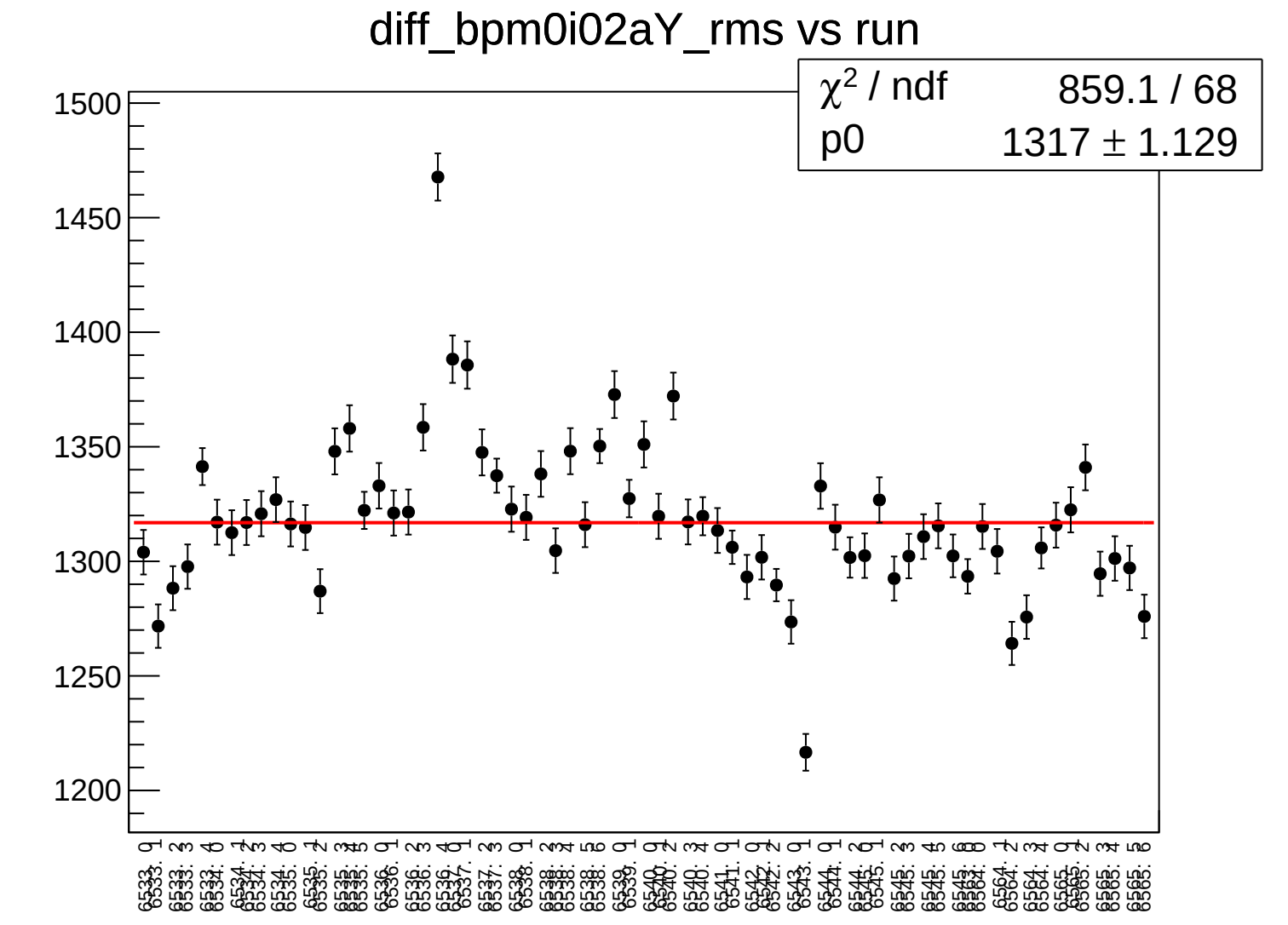

diff_bpm0i02aX_mean vs run
χ² / ndf 112.8 / 68
p0 −80.45 ± 1.945
pull
Entries 69
Mean −2308
Std Dev 2342

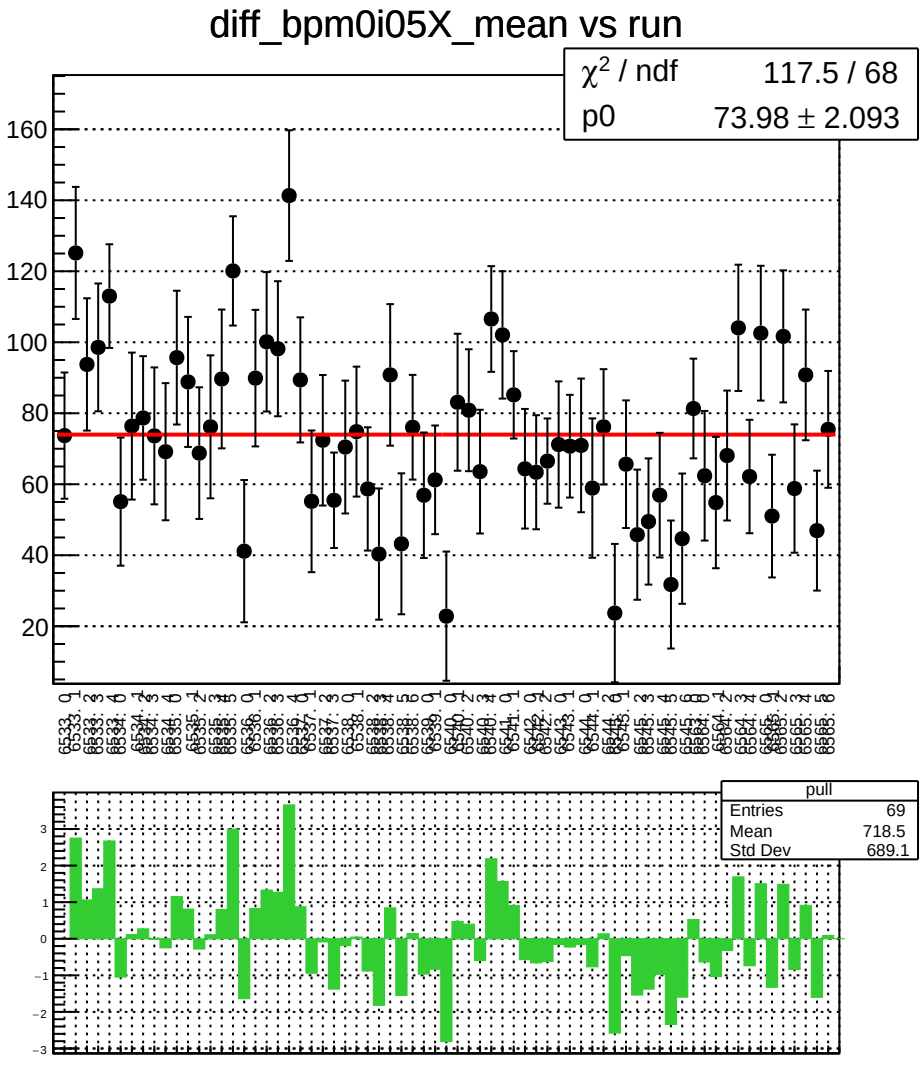

pull1D
Entries 69
Mean −0.005499
Std Dev 1.279

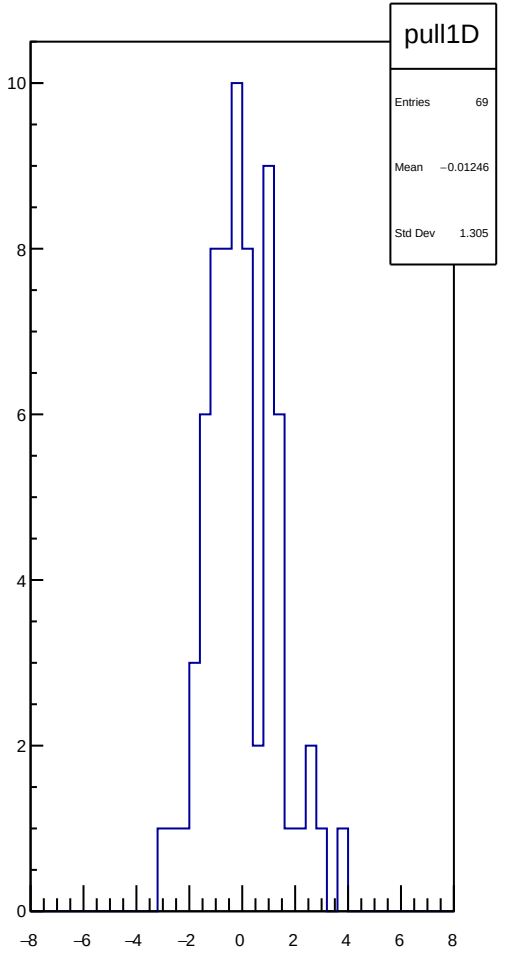

diff_bpm0i02aX_rms vs run
χ² / ndf 709.2 / 68
p0 1605 ± 1.375
1750
1700
1650
1600
1550
1500

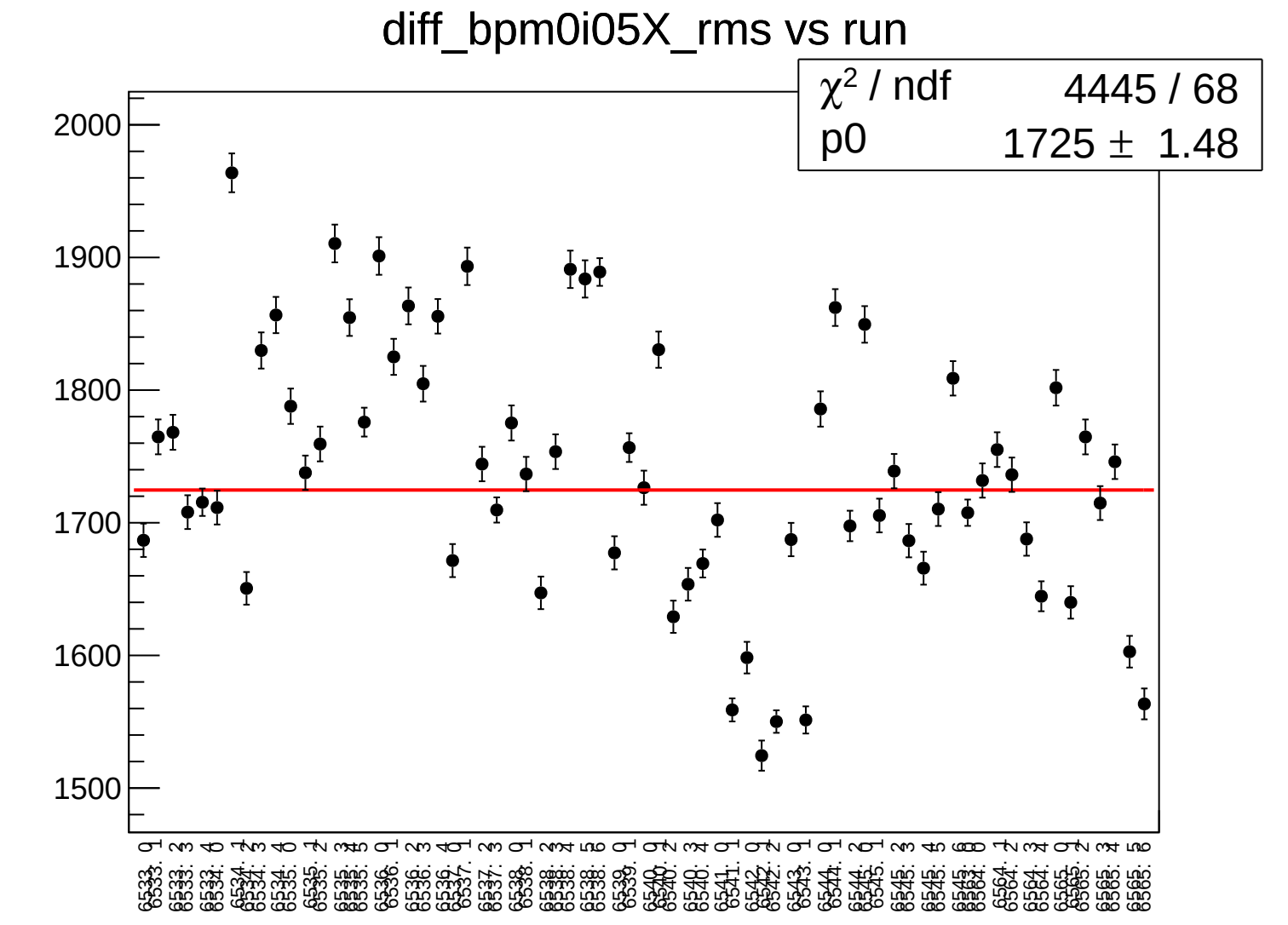

diff_bpm0i02aY_mean vs run
χ² / ndf 87.22 / 68
p0 31.88 ± 1.596
pull
Entries 69
Mean 635.7
Std Dev 597.2

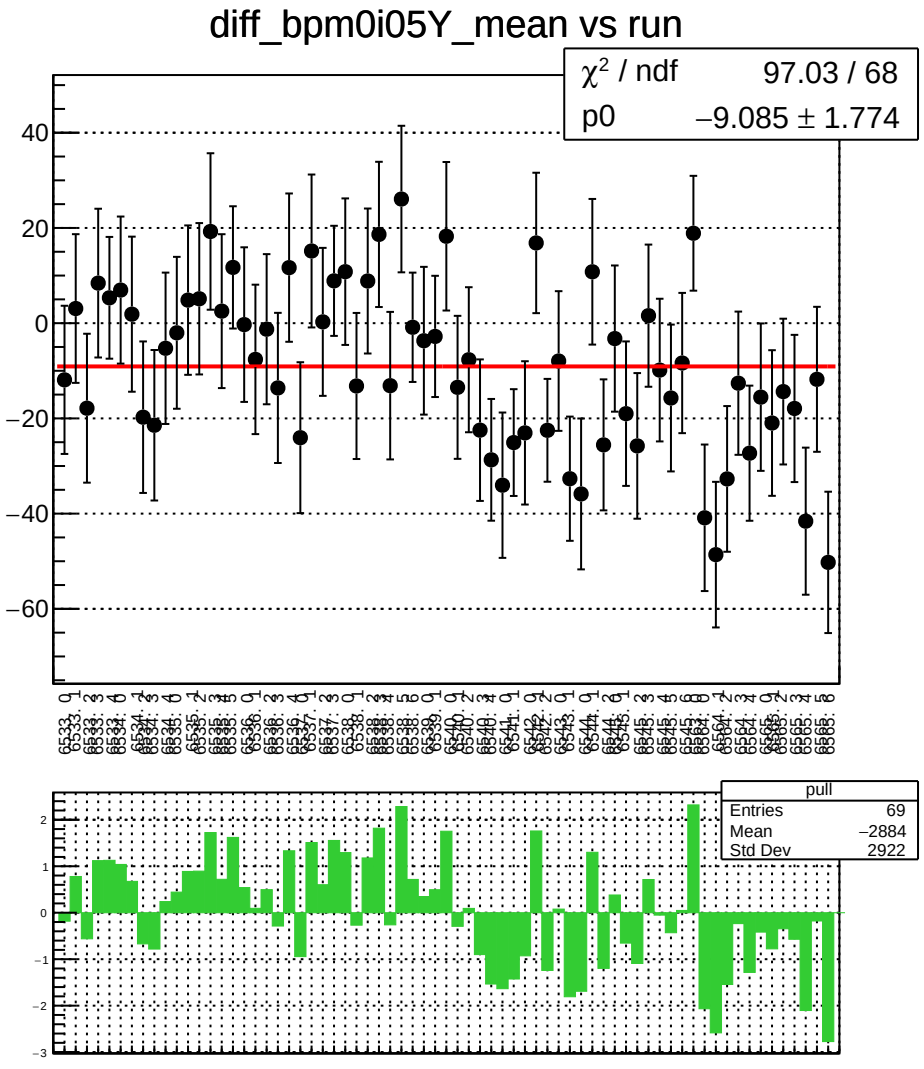

pull1D
Entries 69
Mean 0.009315
Std Dev 1.124

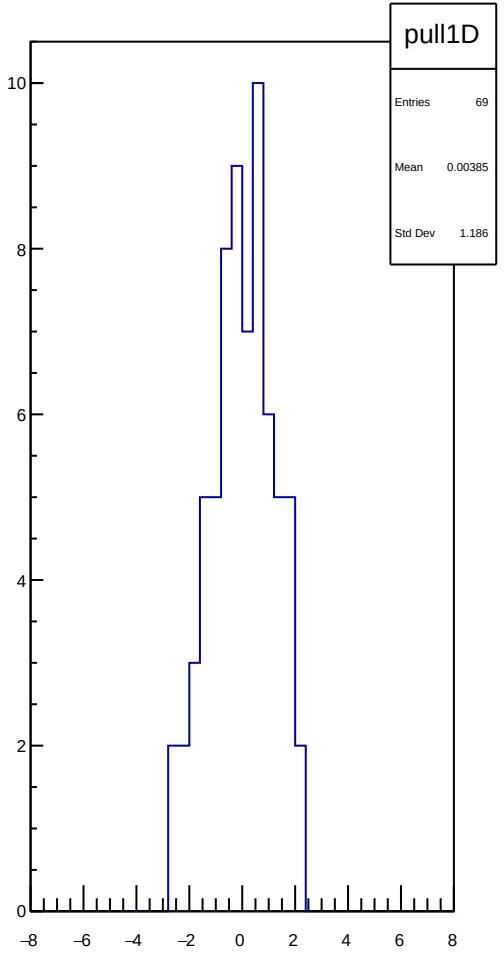

diff_bpm0i02aY_rms vs run
χ² / ndf 859.1 / 68
p0 1317 ± 1.129
1500
1450
1400
1350
1300
1250
1200

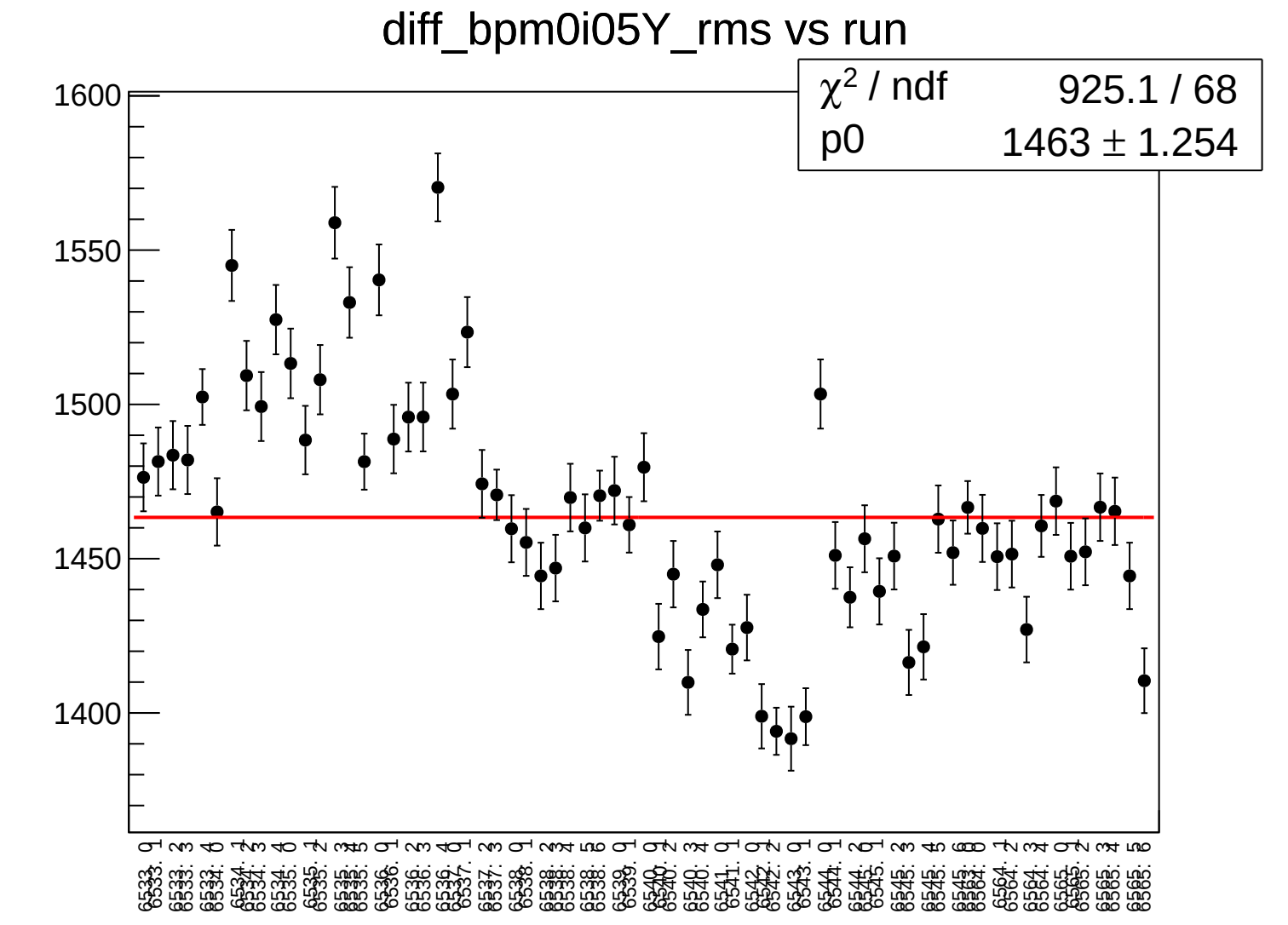

diff_bpm0i05X_mean vs run
$\chi^2$ / ndf 117.5 / 68
p0 73.98 ± 2.093
pull
Entries 69
Mean 718.5
Std Dev 689.1

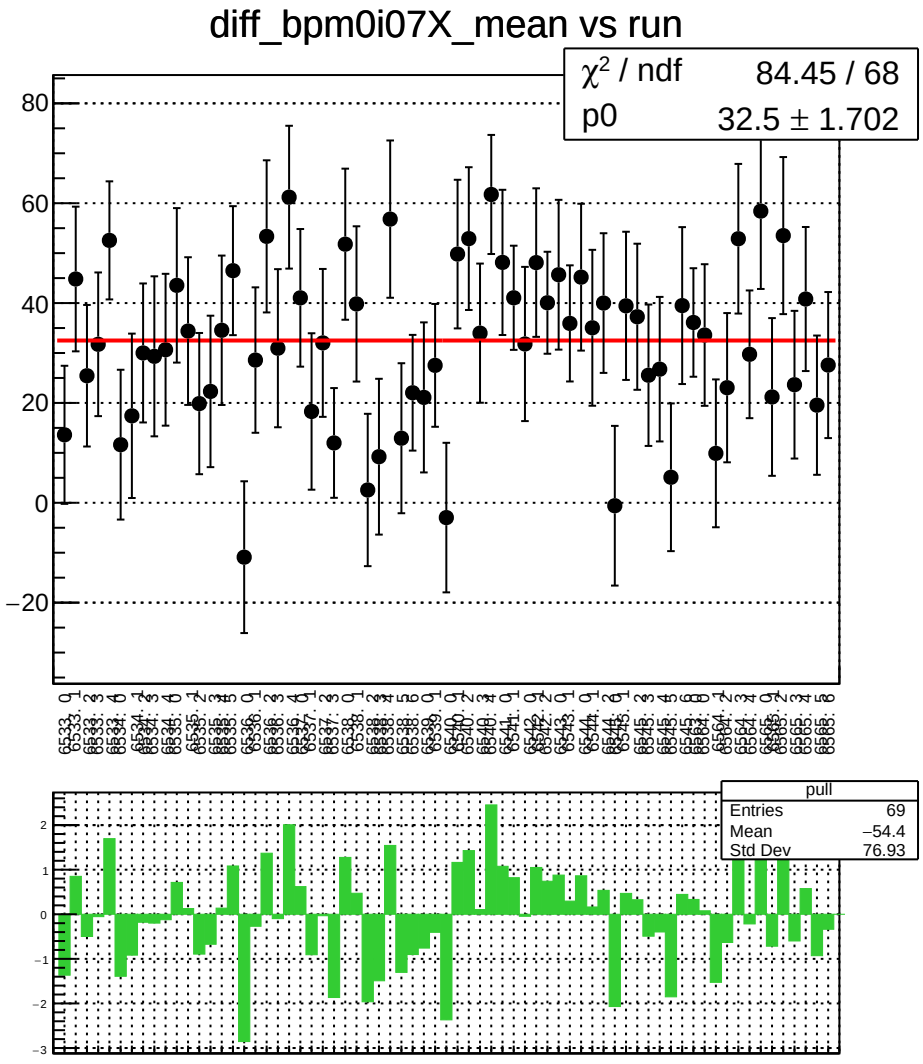

pull1D
Entries 69
Mean −0.01246
Std Dev 1.305

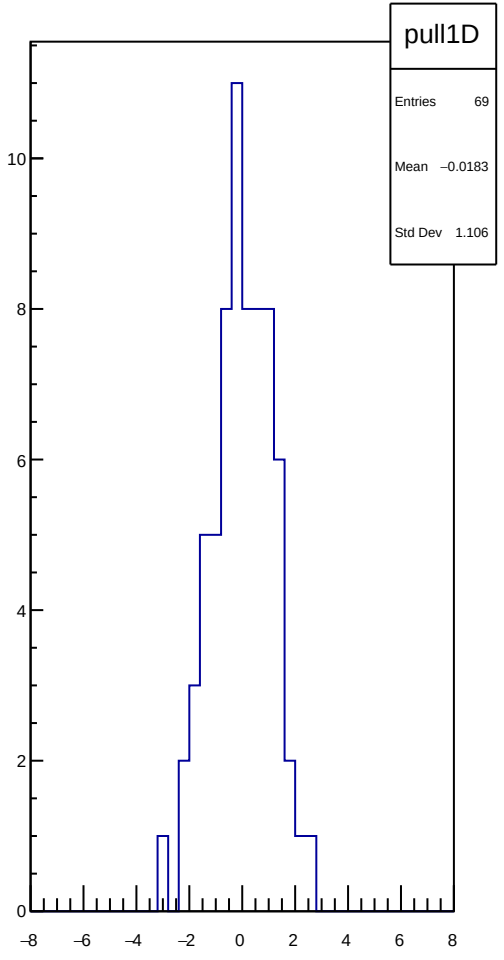

diff_bpm0i05X_rms vs run
χ² / ndf 4445 / 68
p0 1725 ± 1.48
2000
1900
1800
1700
1600
1500

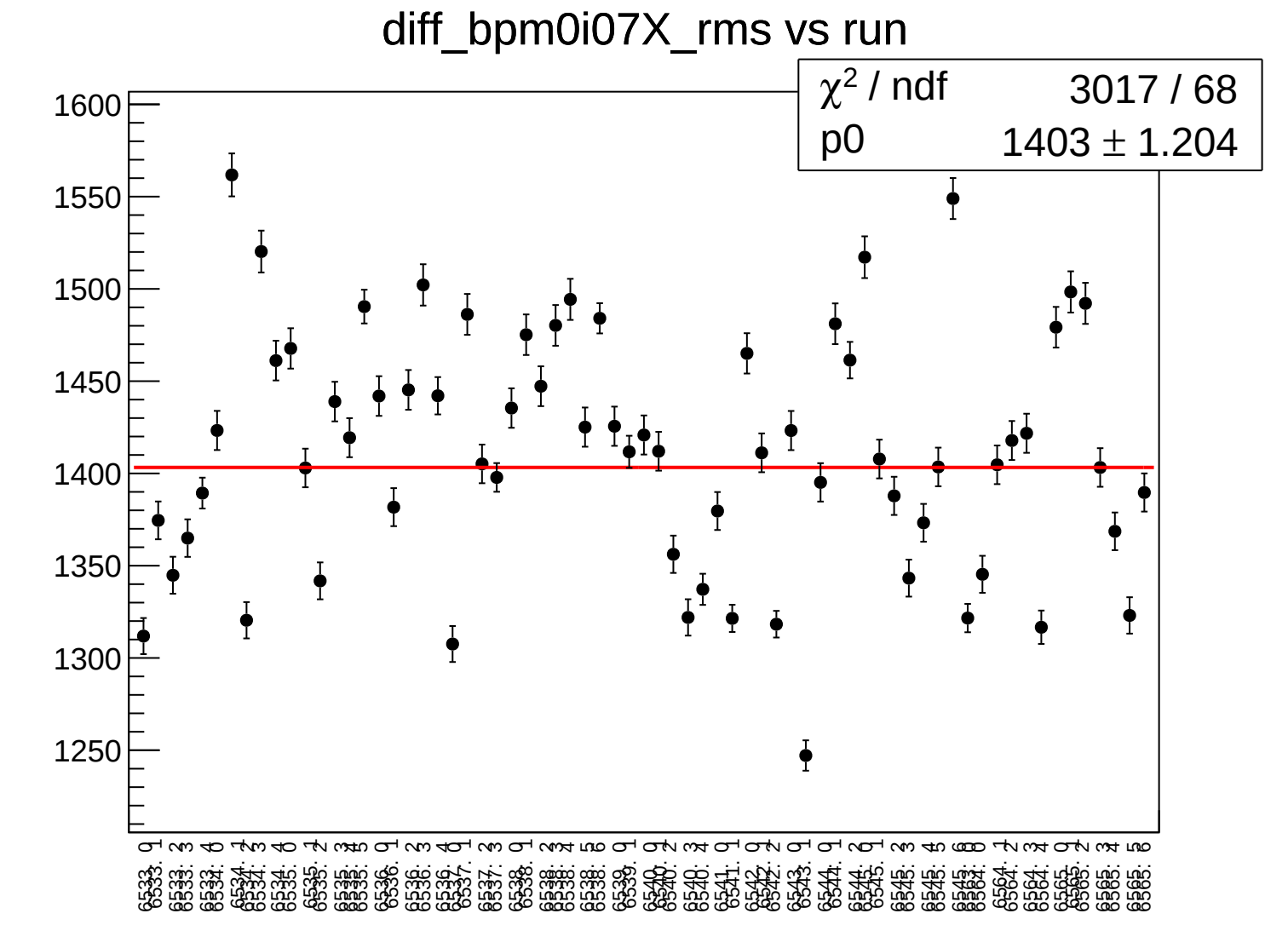

diff_bpm0i05Y_mean vs run
χ² / ndf 97.03 / 68
p0 −9.085 ± 1.774
pull
Entries 69
Mean −2884
Std Dev 2922

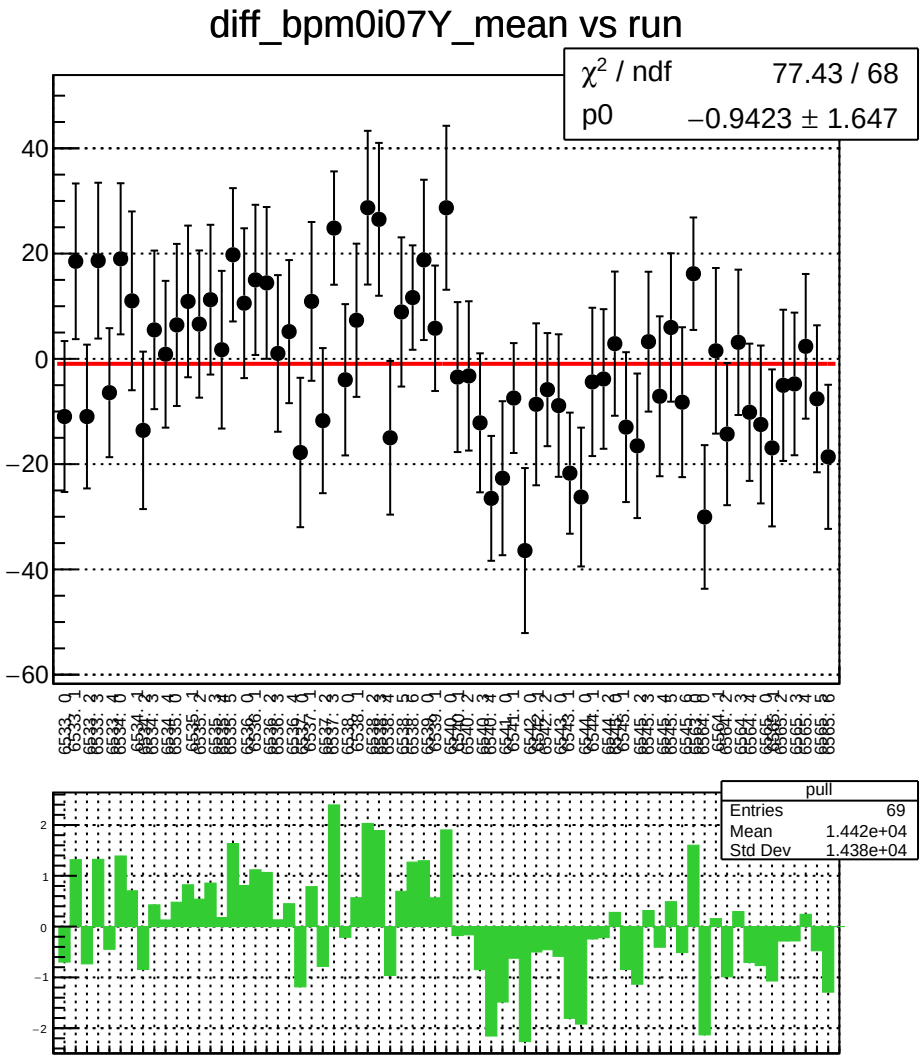

pull1D
Entries 69
Mean 0.00385
Std Dev 1.186

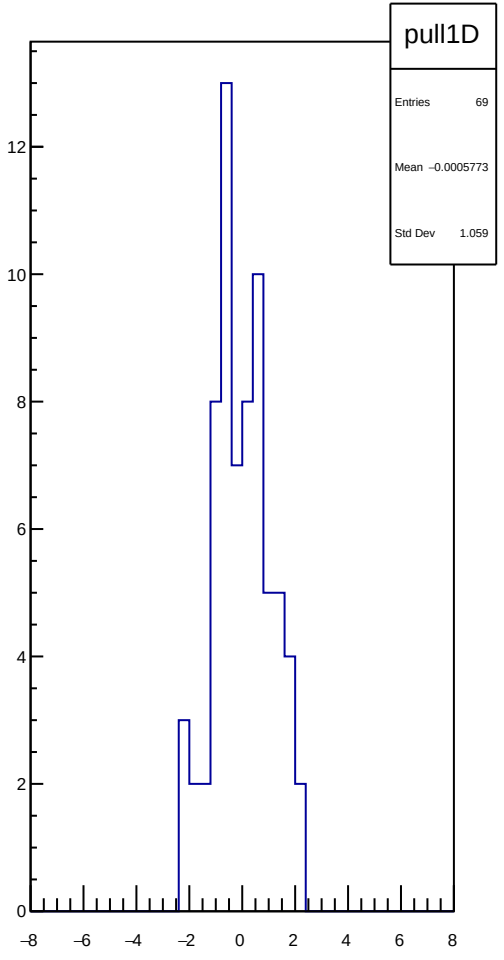

diff_bpm0i05Y_rms vs run
χ² / ndf 925.1 / 68
p0 1463 ± 1.254
1600
1550
1500
1450
1400

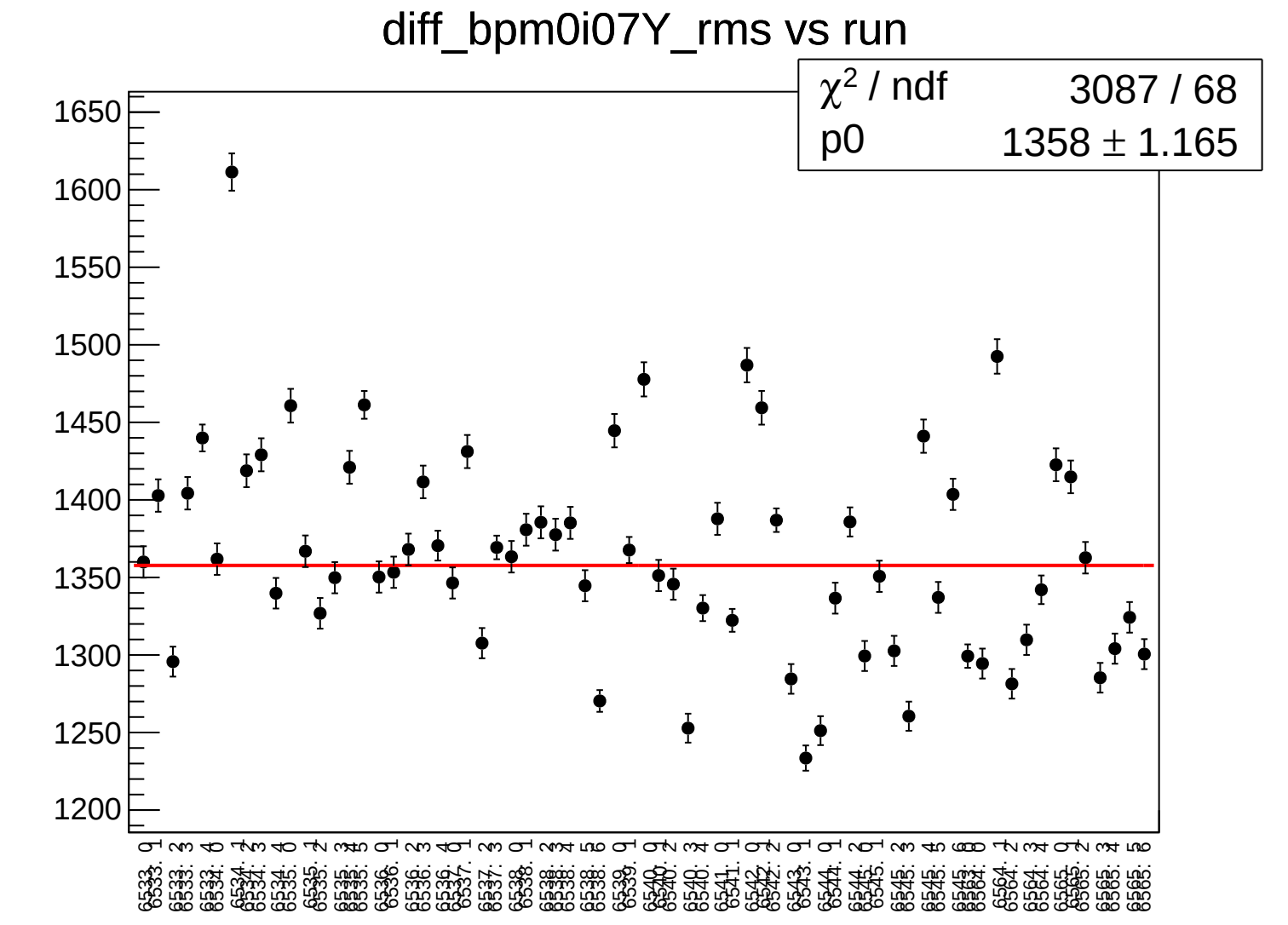

diff_bpm0i07X_mean vs run
χ² / ndf 84.45 / 68
p0 32.5 ± 1.702
pull
Entries 69
Mean −54.4
Std Dev 76.93

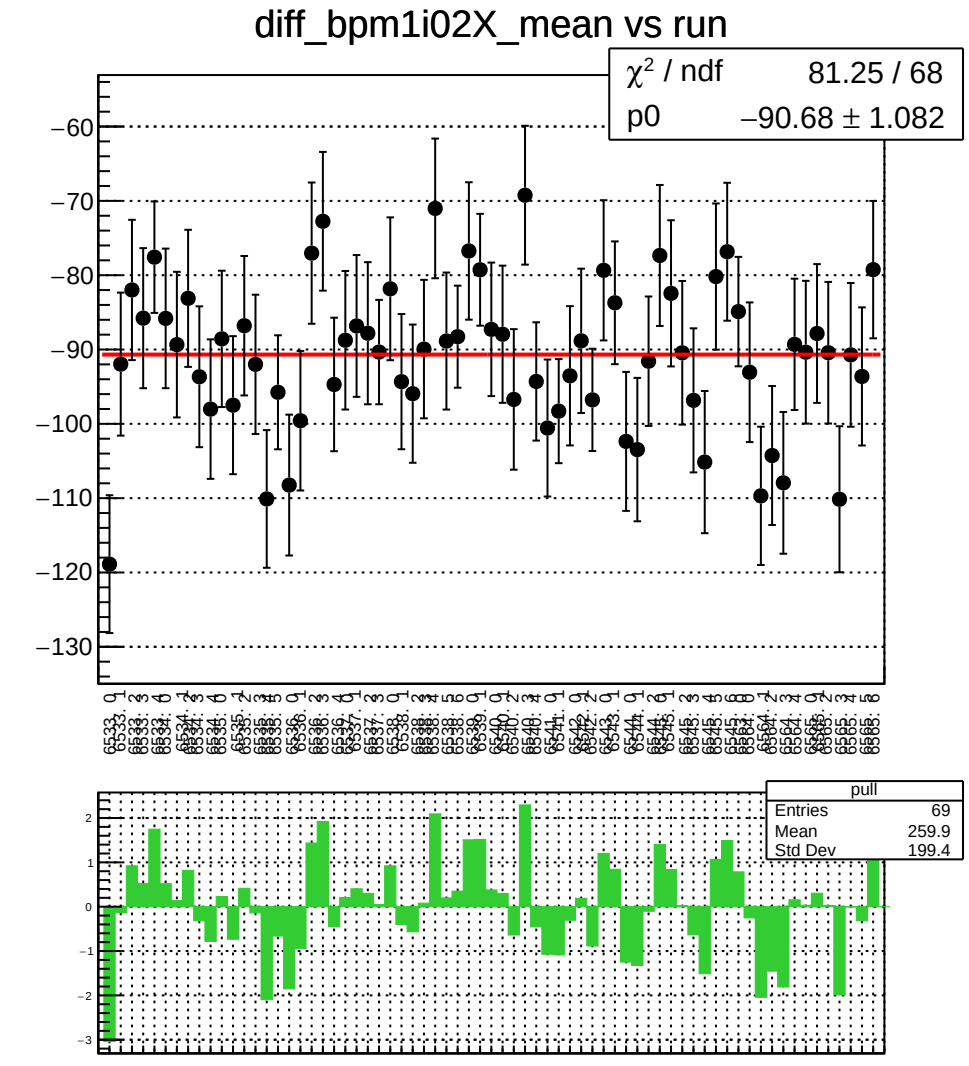

pull1D
Entries 69
Mean −0.0183
Std Dev 1.106

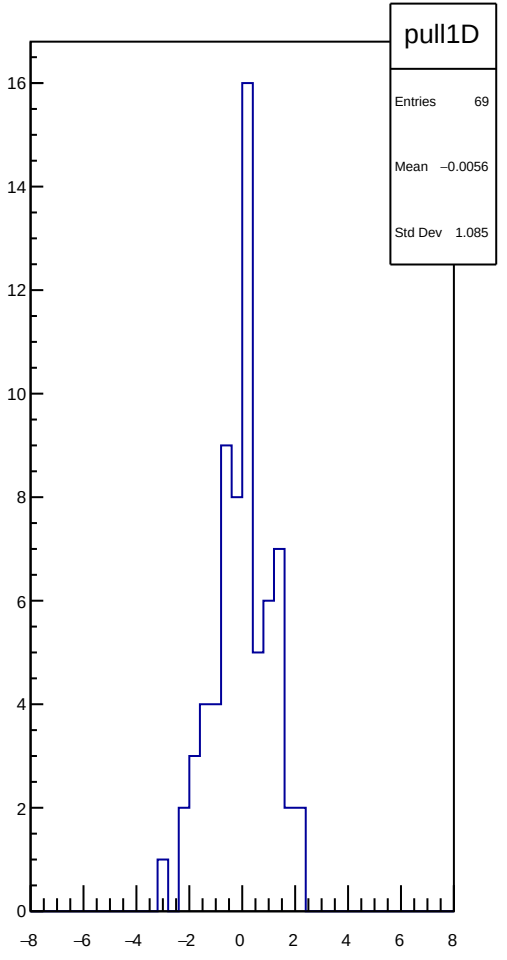

diff_bpm0i07X_rms vs run
χ² / ndf 3017 / 68
p0 1403 ± 1.204
1600
1550
1500
1450
1400
1350
1300
1250

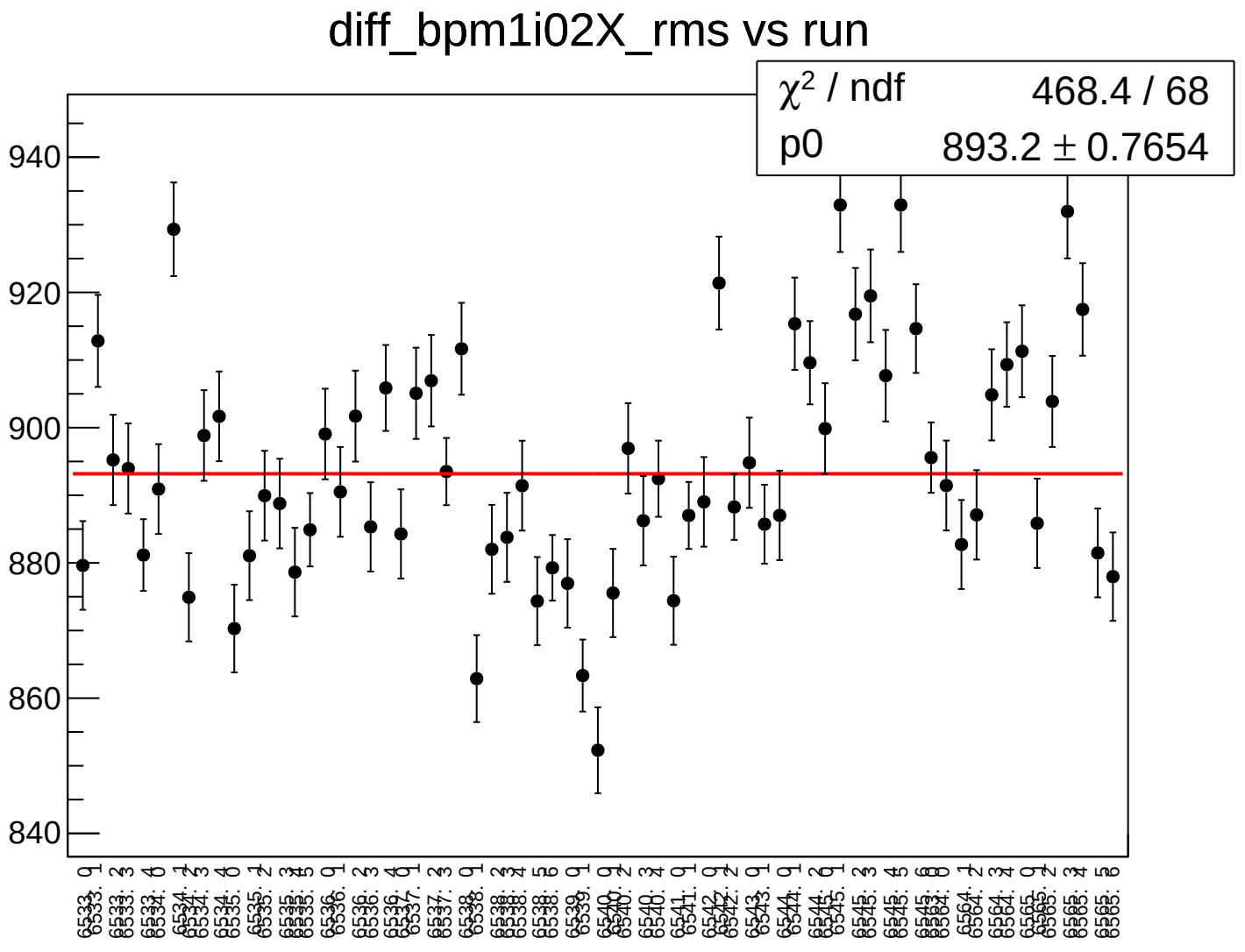

diff_bpm0i07Y_mean vs run
χ² / ndf 77.43 / 68
p0 −0.9423 ± 1.647
pull
Entries 69
Mean 1.442e+04
Std Dev 1.438e+04

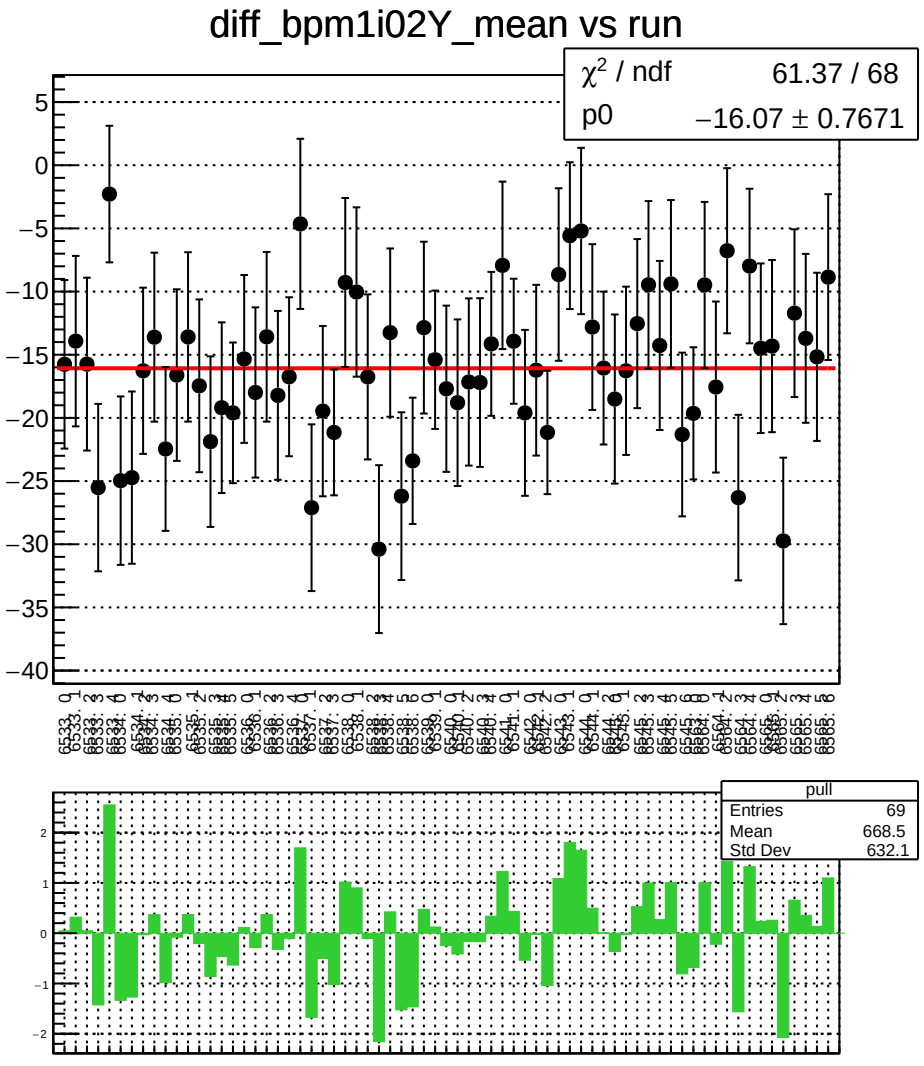

pull1D
Entries 69
Mean −0.0005773
Std Dev 1.059

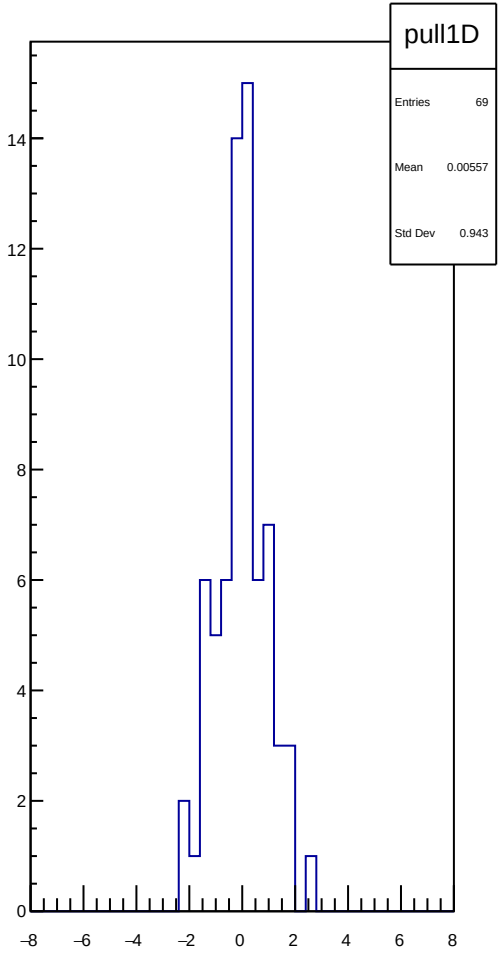

diff_bpm0i07Y_rms vs run
χ² / ndf 3087 / 68
p0 1358 ± 1.165
1650
1600
1550
1500
1450
1400
1350
1300
1250
1200

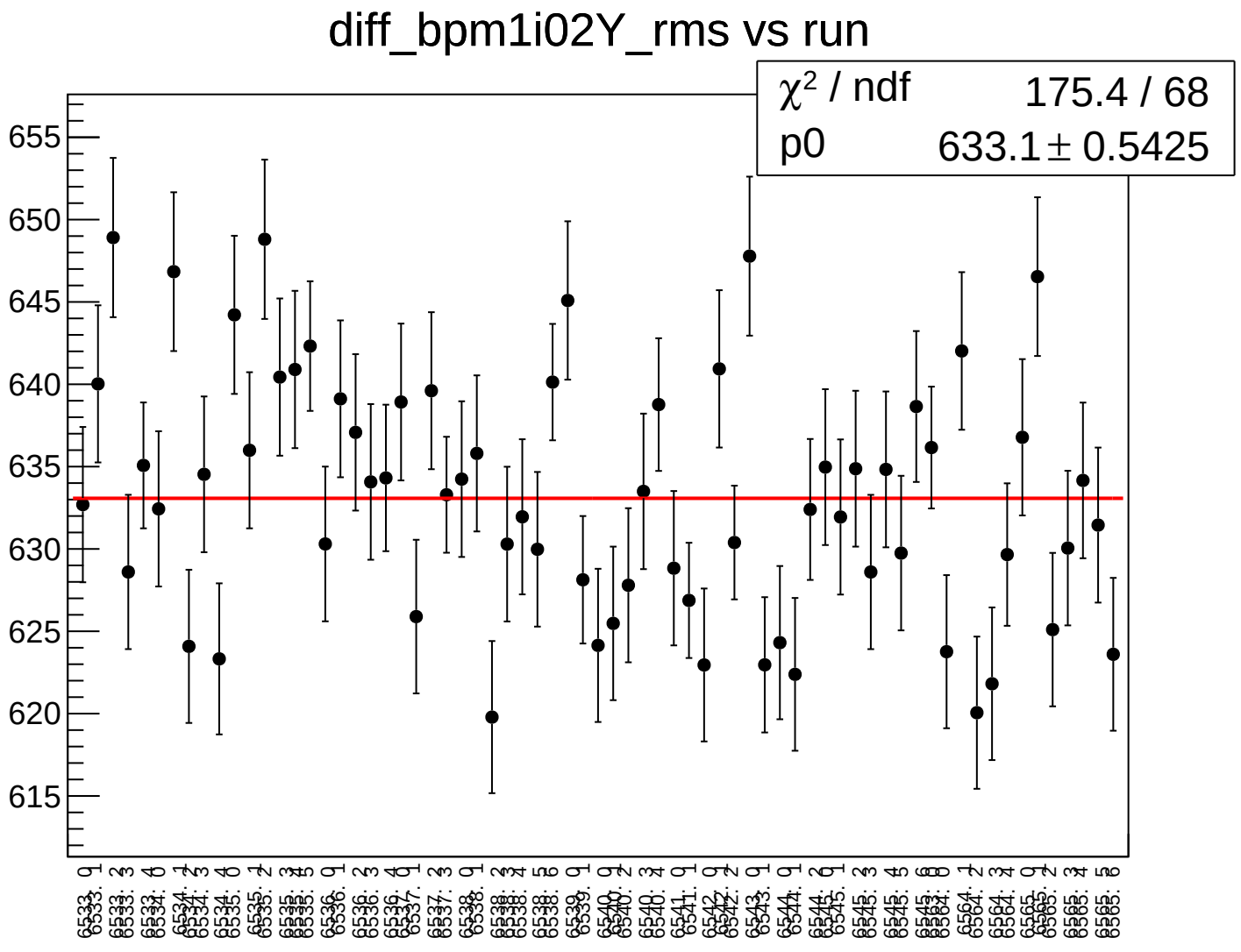

diff_bpm1i02X_mean vs run
χ² / ndf 81.25 / 68
p0 −90.68 ± 1.082
pull
Entries 69
Mean 259.9
Std Dev 199.4

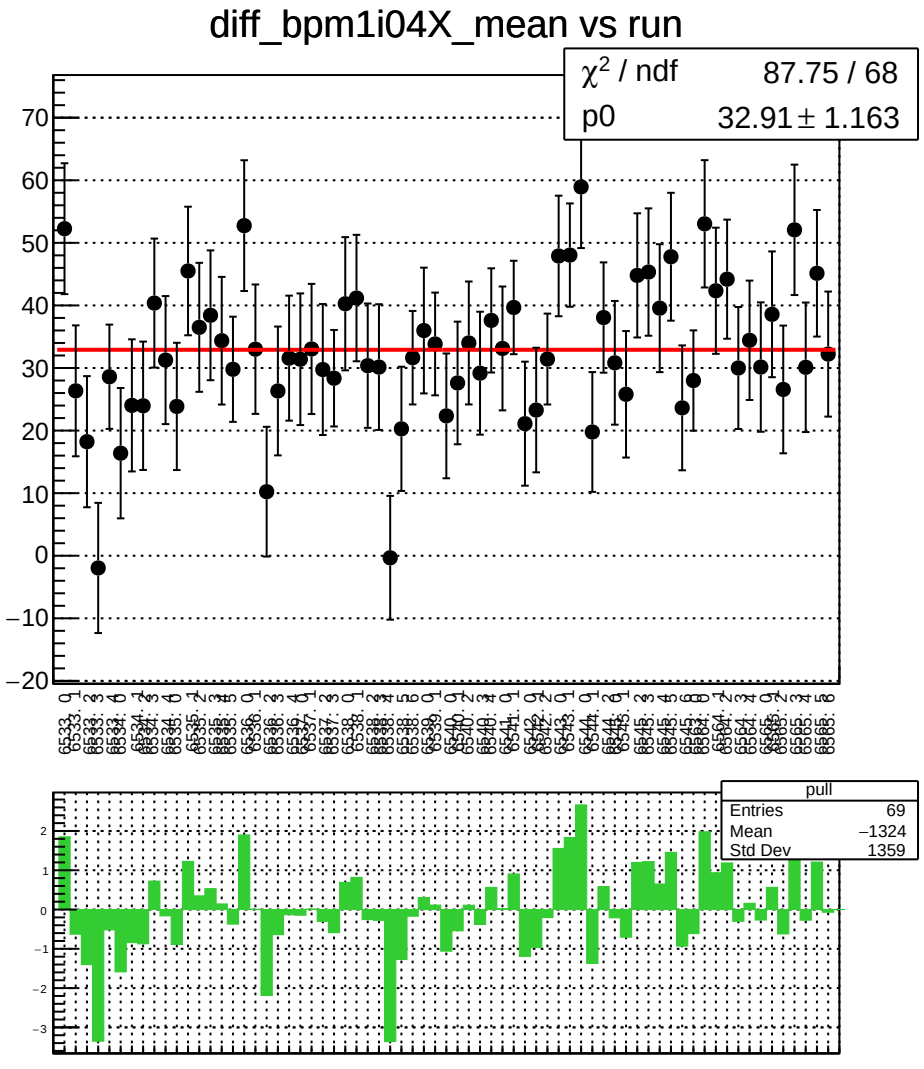

pull1D
Entries 69
Mean −0.0056
Std Dev 1.085

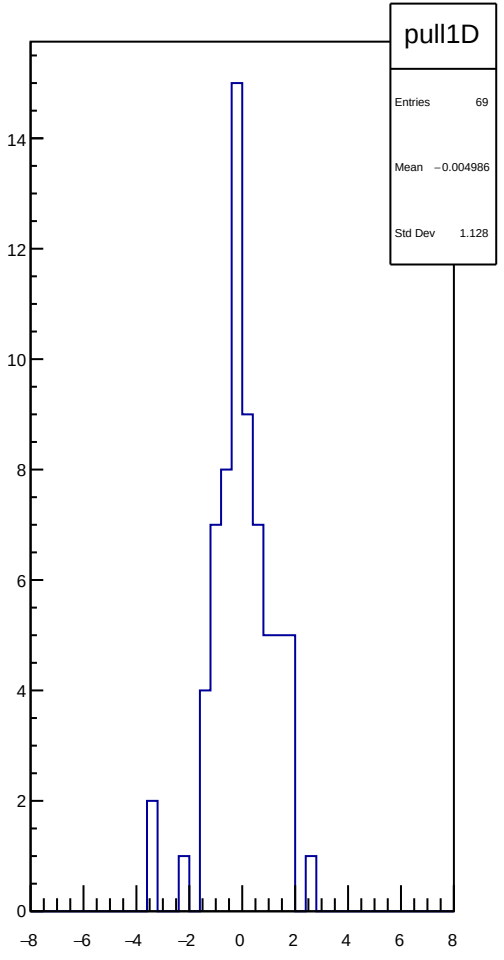

diff_bpm1i02X_rms vs run
χ² / ndf 468.4 / 68
p0 893.2 ± 0.7654
940
920
900
880
860
840

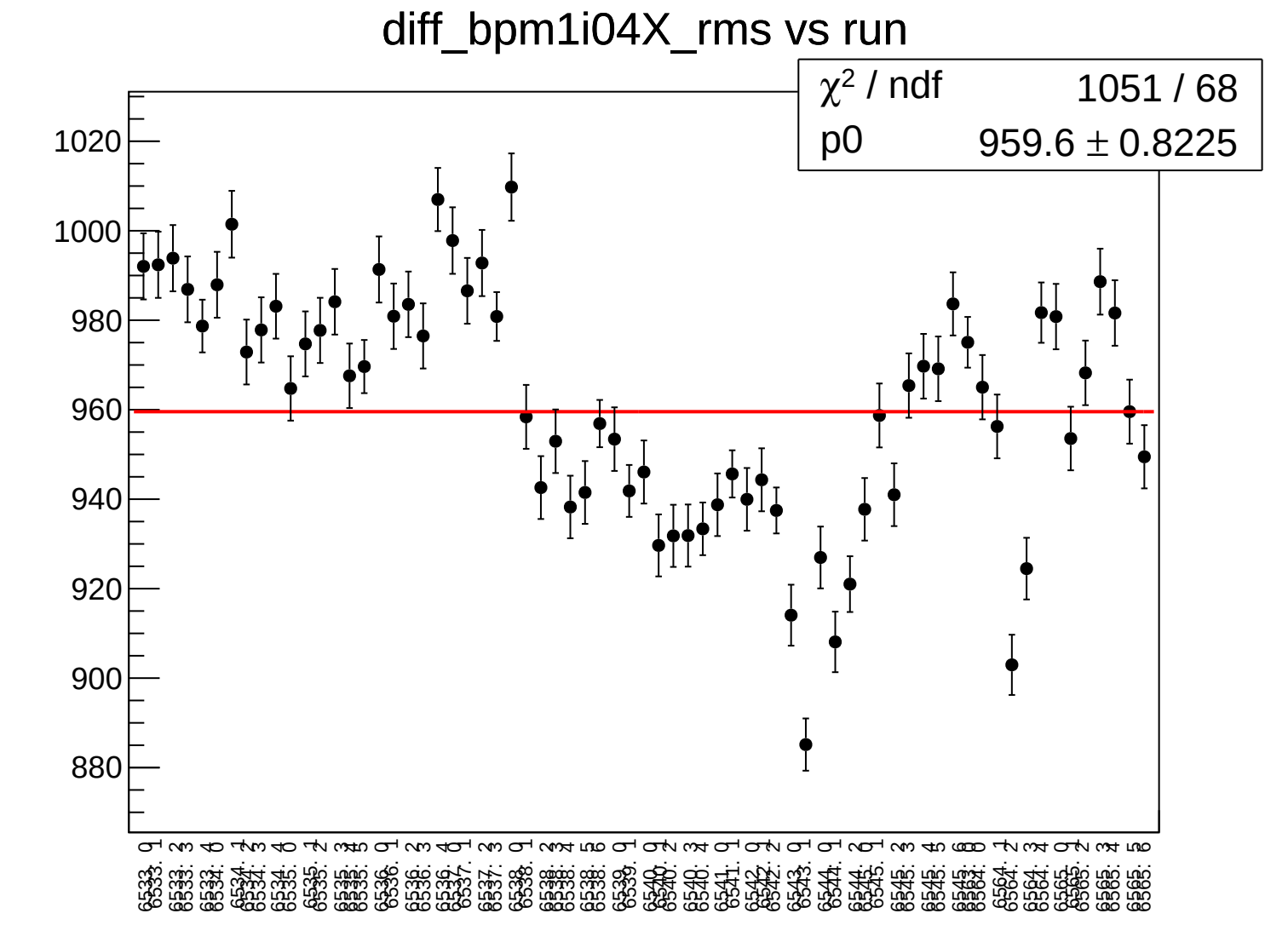

diff_bpm1i02Y_mean vs run
χ² / ndf 61.37 / 68
p0 −16.07 ± 0.7671
pull
Entries 69
Mean 668.5
Std Dev 632.1

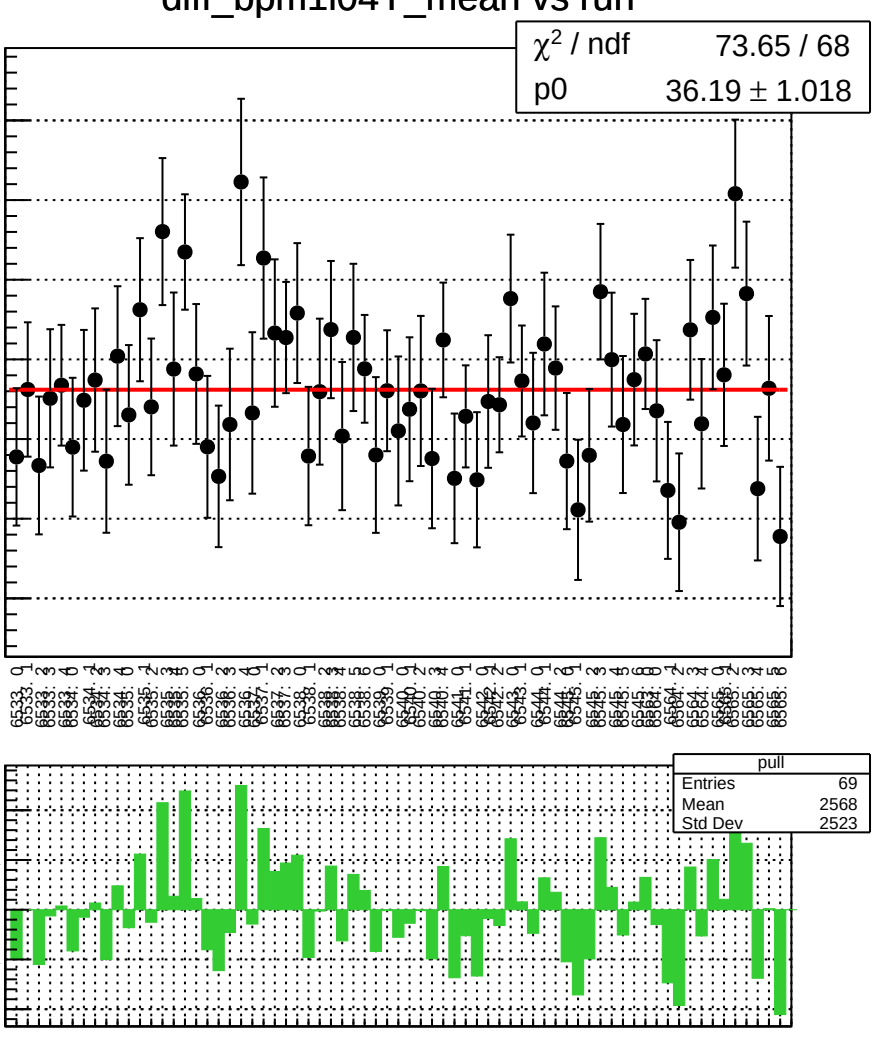

pull1D
Entries 69
Mean 0.00557
Std Dev 0.943

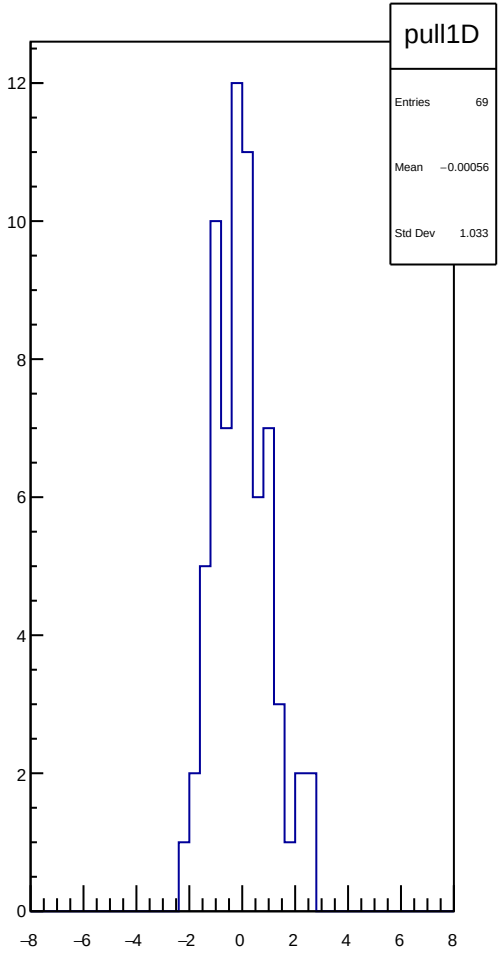

diff_bpm1i02Y_rms vs run
χ² / ndf 175.4 / 68
p0 633.1 ± 0.5425
655
650
645
640
635
630
625
620
615

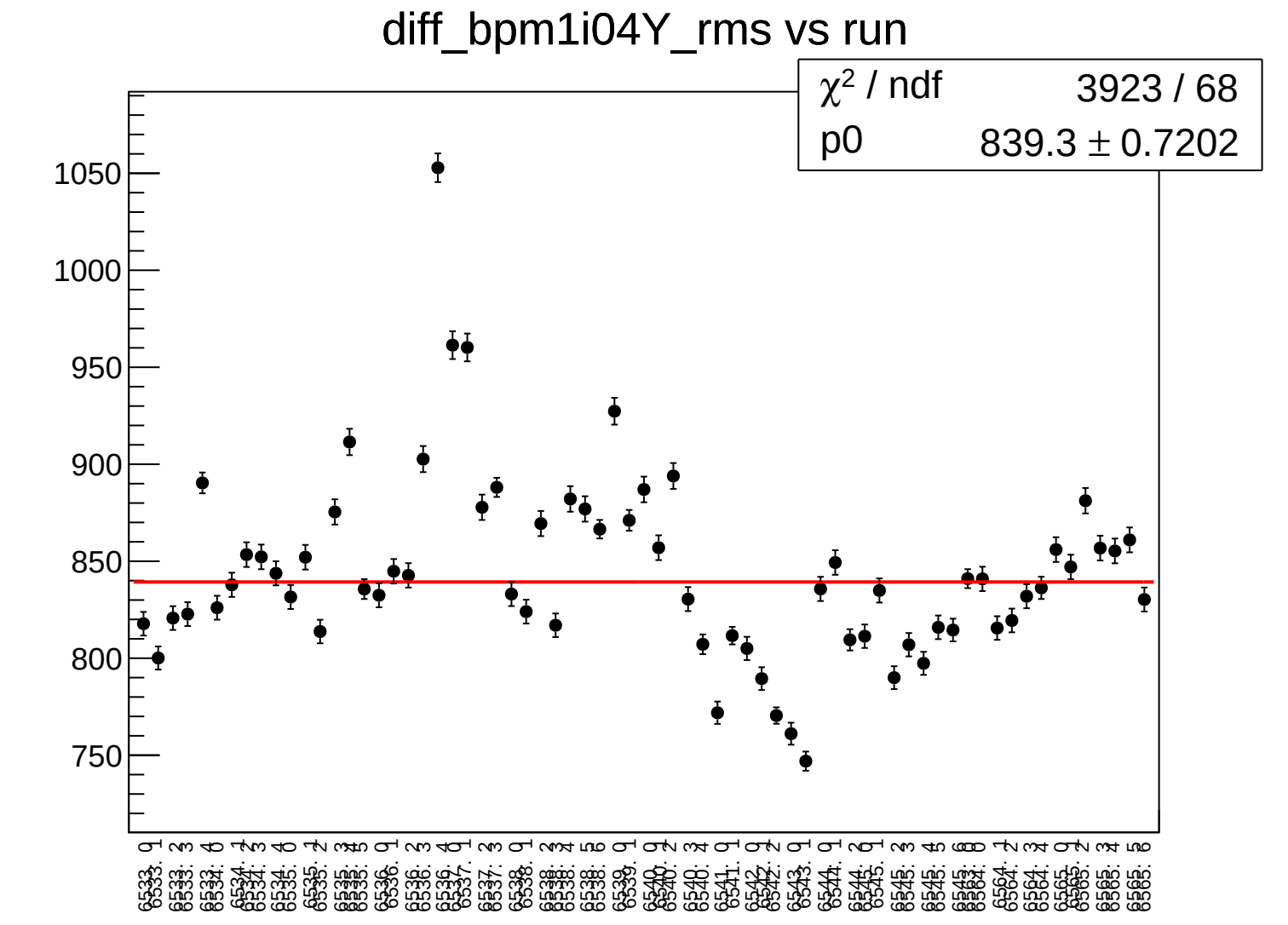

diff_bpm1i04X_mean vs run
$\chi^2$ / ndf 87.75 / 68
p0 32.91 ± 1.163
pull
Entries 69
Mean −1324
Std Dev 1359

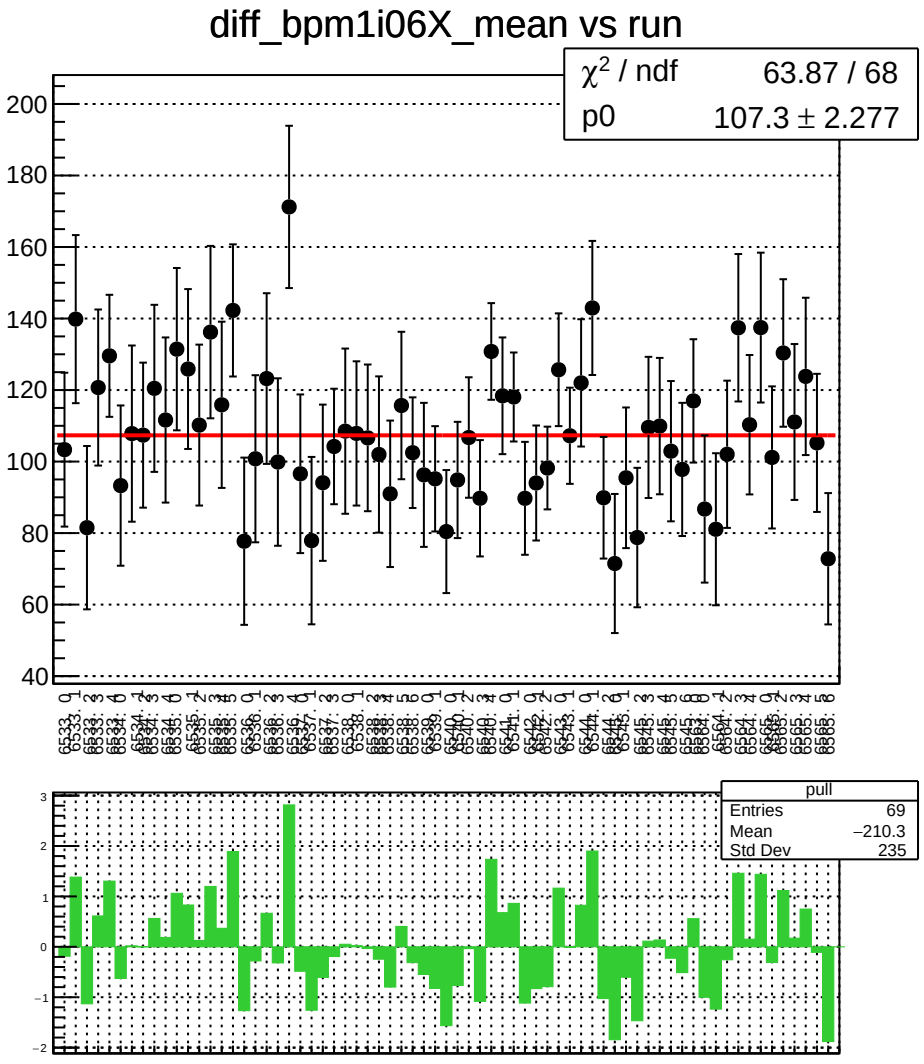

pull1D
Entries 69
Mean −0.004986
Std Dev 1.128

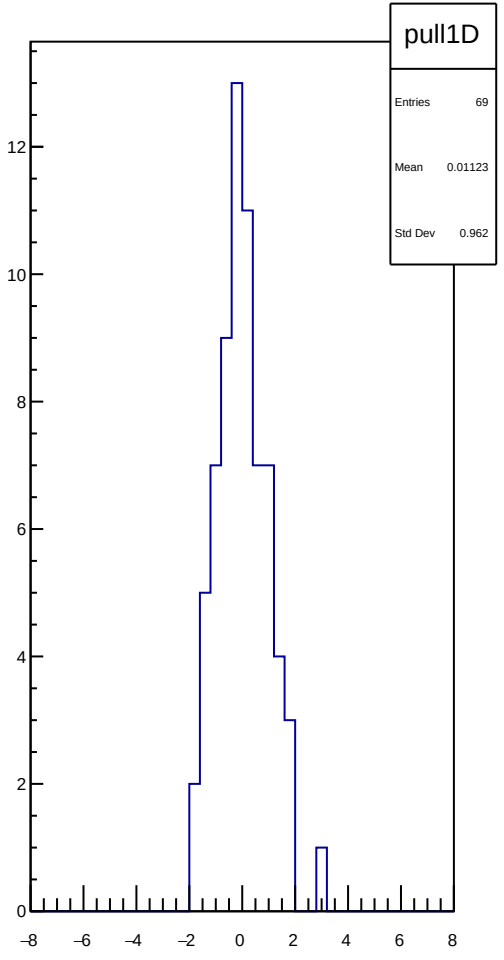

diff_bpm1i04X_rms vs run
χ² / ndf 1051 / 68
p0 959.6 ± 0.8225
1020
1000
980
960
940
920
900
880

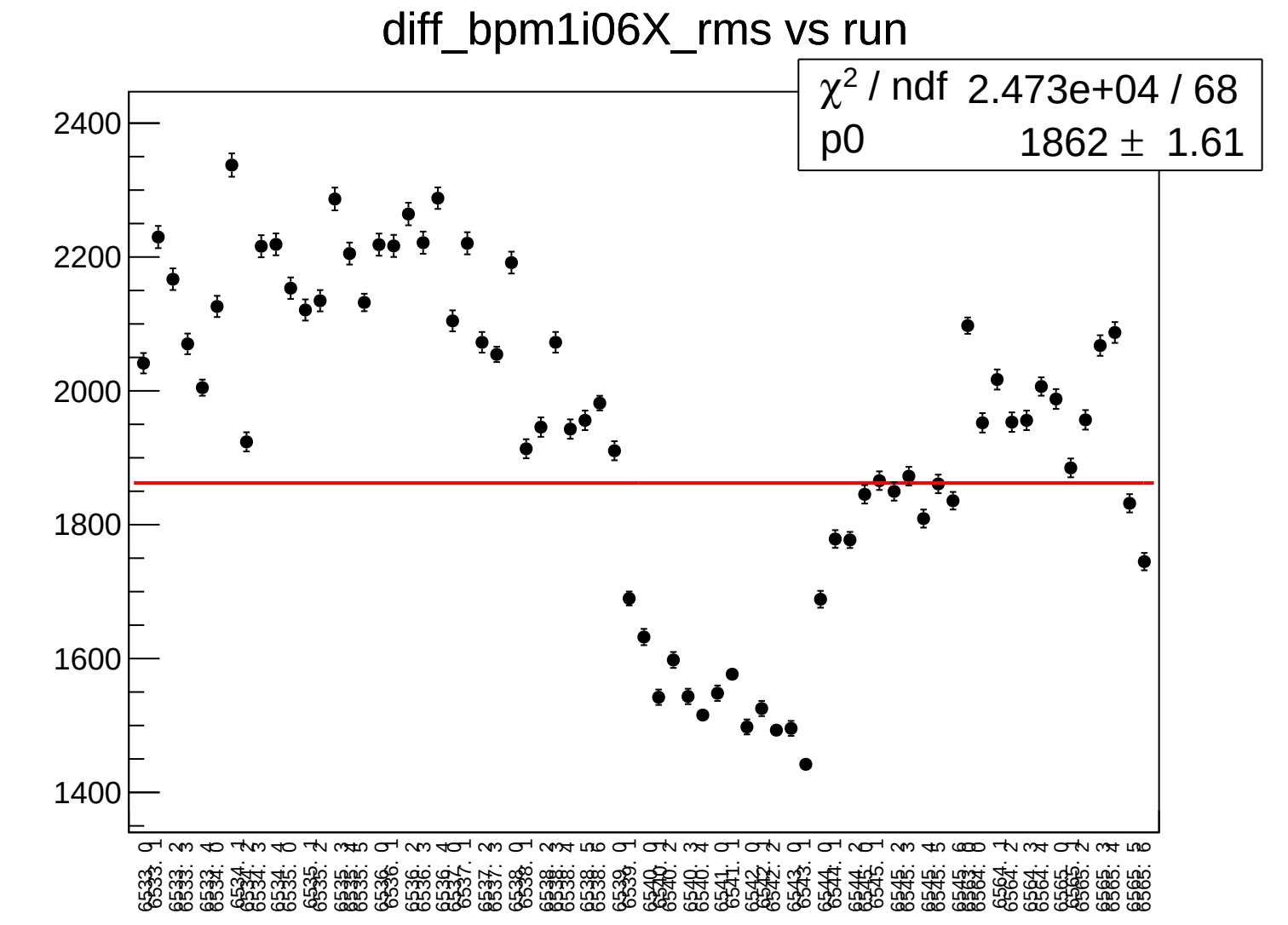

diff_bpm1i04Y_mean vs run
$\chi^2$ / ndf 73.65 / 68
p0 36.19 ± 1.018
pull
Entries 69
Mean 2568
Std Dev 2523

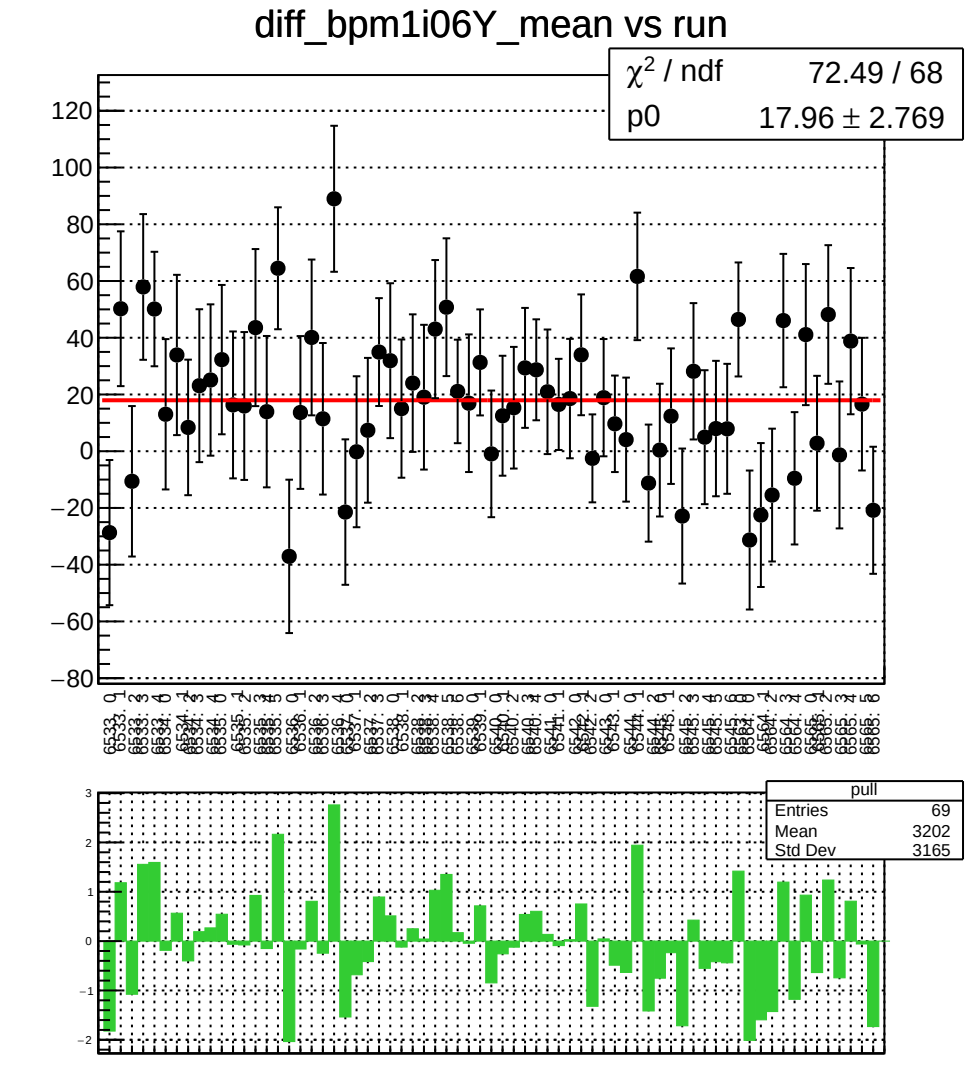

pull1D
Entries 69
Mean −0.00056
Std Dev 1.033

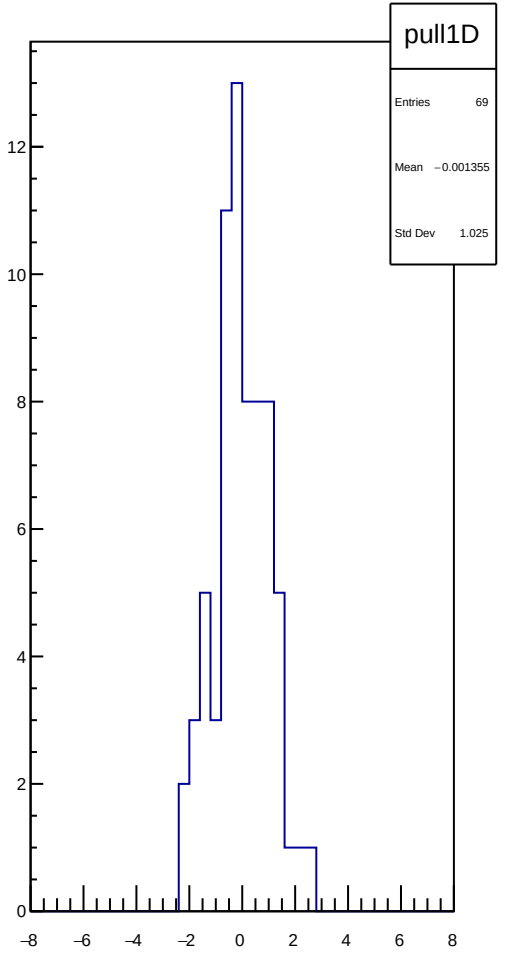

diff_bpm1i04Y_rms vs run
χ² / ndf 3923 / 68
p0 839.3 ± 0.7202
1050
1000
950
900
850
800
750

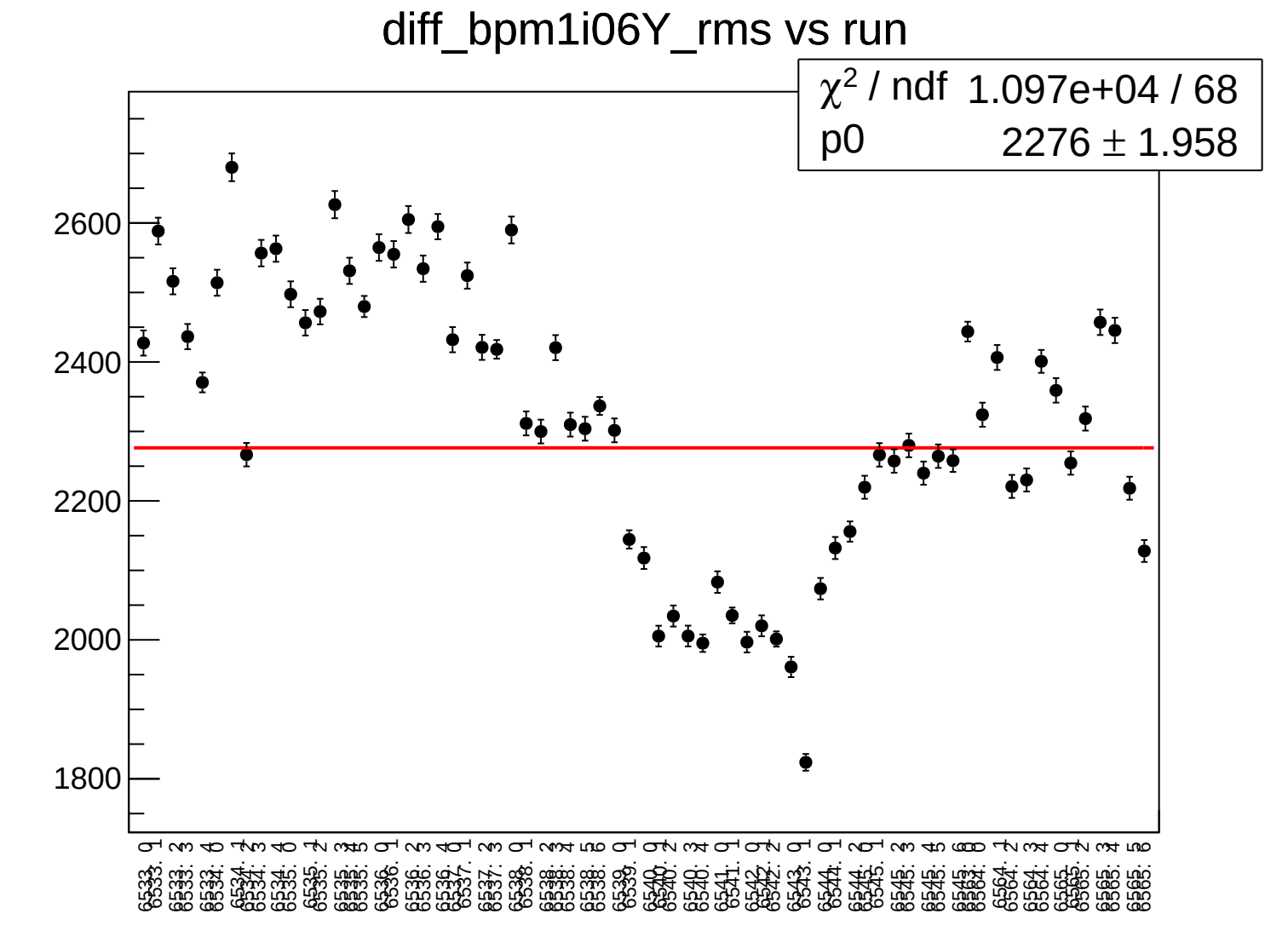

diff_bpm1i06X_mean vs run
$\chi^2$ / ndf 63.87 / 68
p0 107.3 ± 2.277
pull
Entries 69
Mean −210.3
Std Dev 235

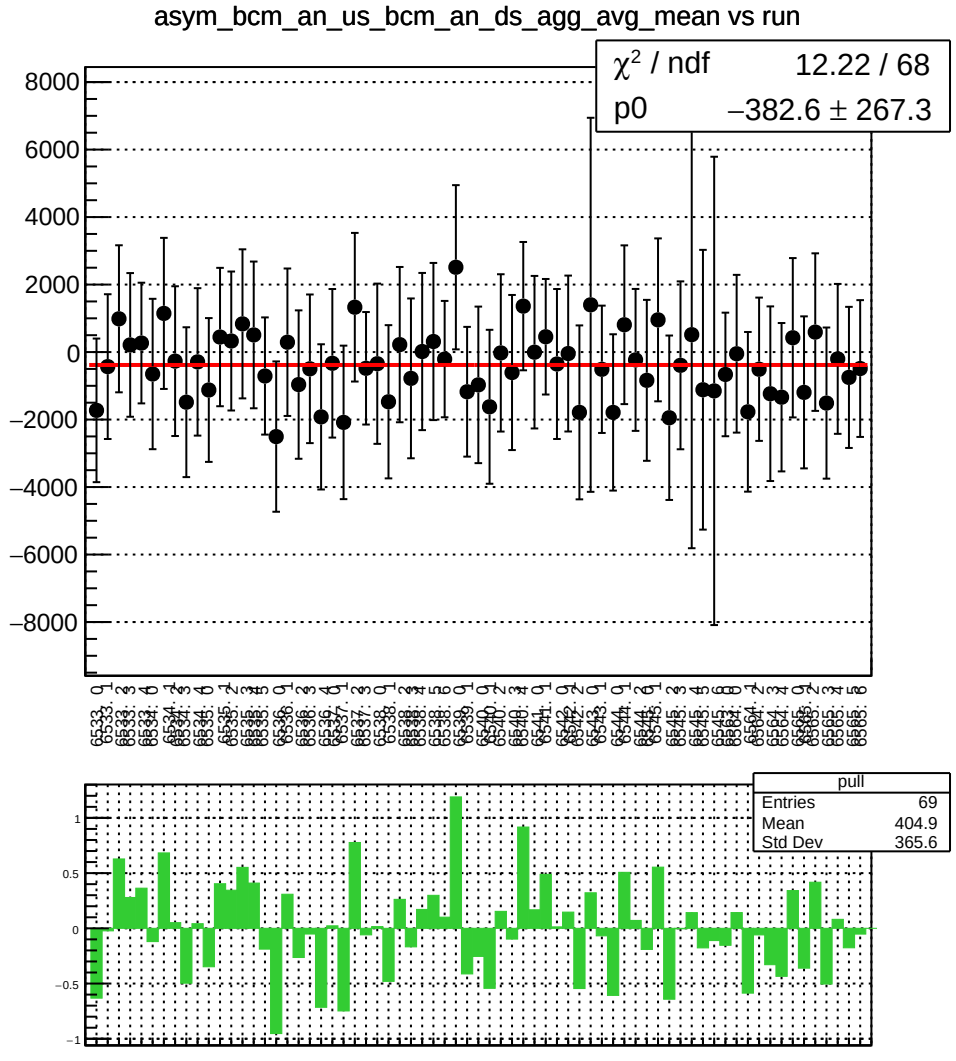

pull1D
Entries 69
Mean 0.01123
Std Dev 0.962

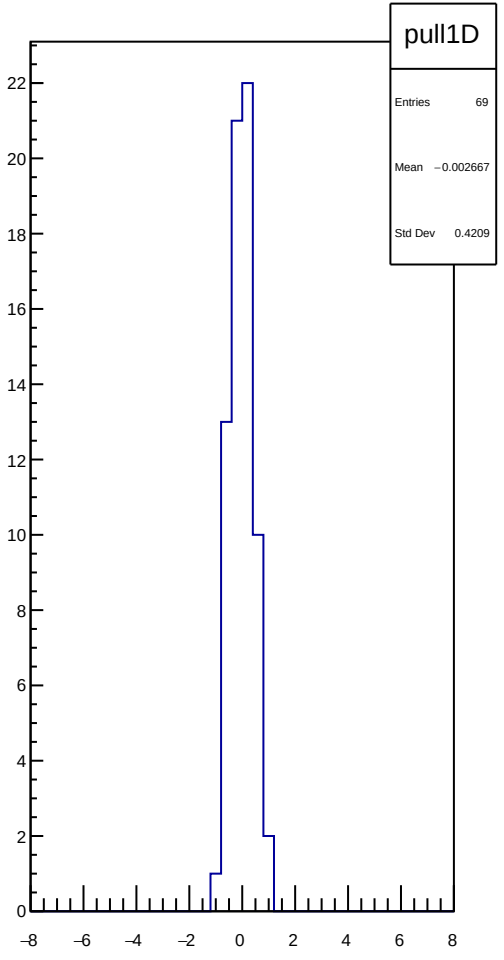

diff_bpm1i06X_rms vs run
χ² / ndf 2.473e+04 / 68
p0 1862 ± 1.61
2400
2200
2000
1800
1600
1400

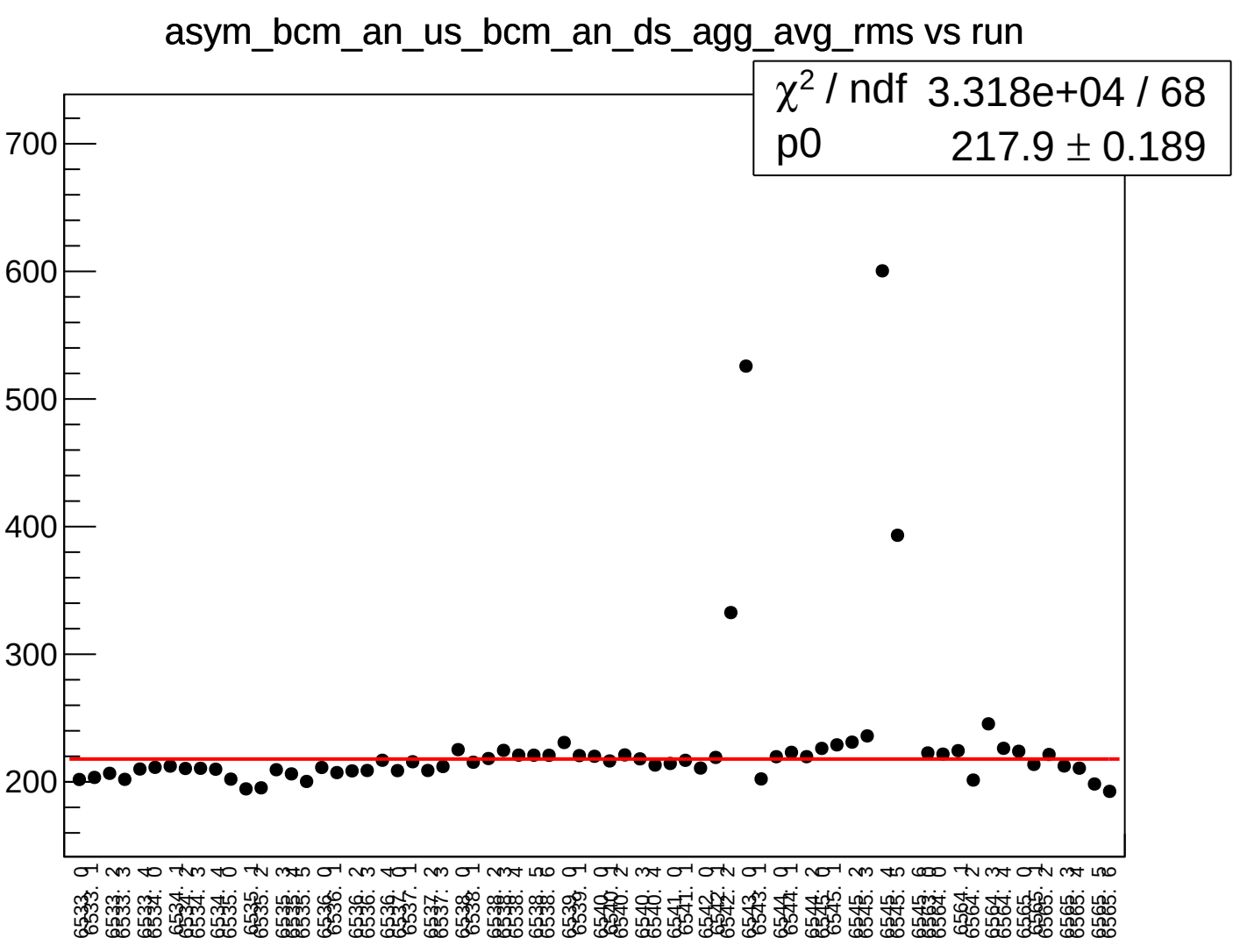

diff_bpm1i06Y_mean vs run
χ² / ndf 72.49 / 68
p0 17.96 ± 2.769
pull
Entries 69
Mean 3202
Std Dev 3165

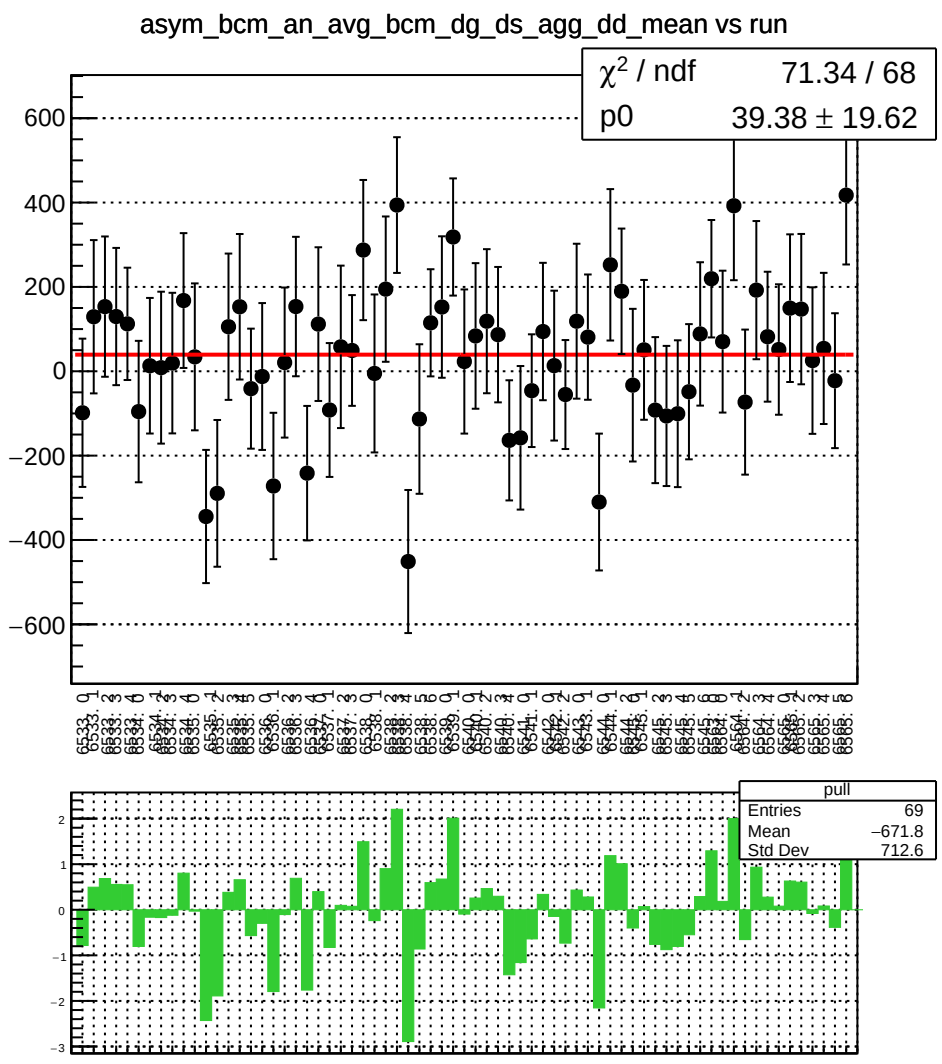

pull1D
Entries 69
Mean −0.001355
Std Dev 1.025

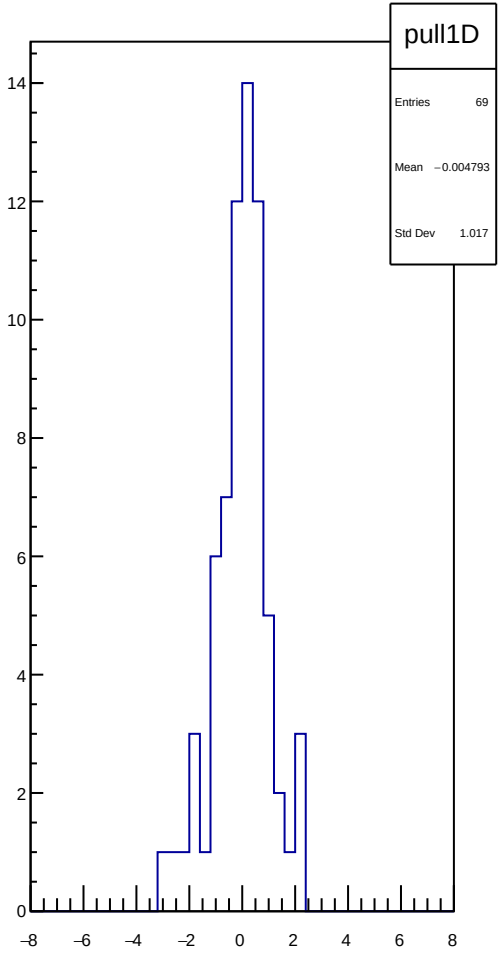

diff_bpm1i06Y_rms vs run
χ² / ndf 1.097e+04 / 68
p0 2276 ± 1.958
2600
2400
2200
2000
1800

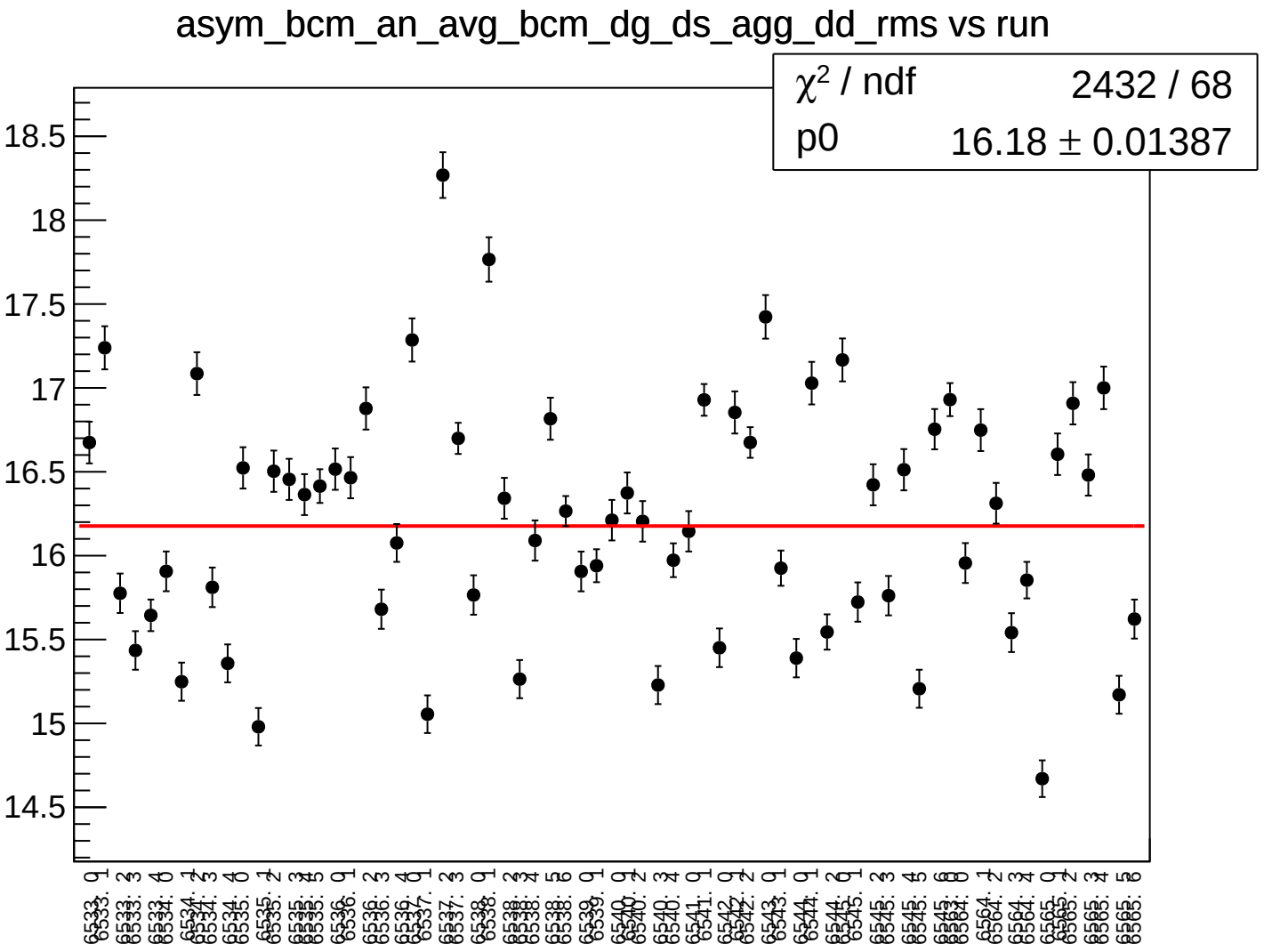

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.22 / 68
p0 −382.6 ± 267.3
pull
Entries 69
Mean 404.9
Std Dev 365.6

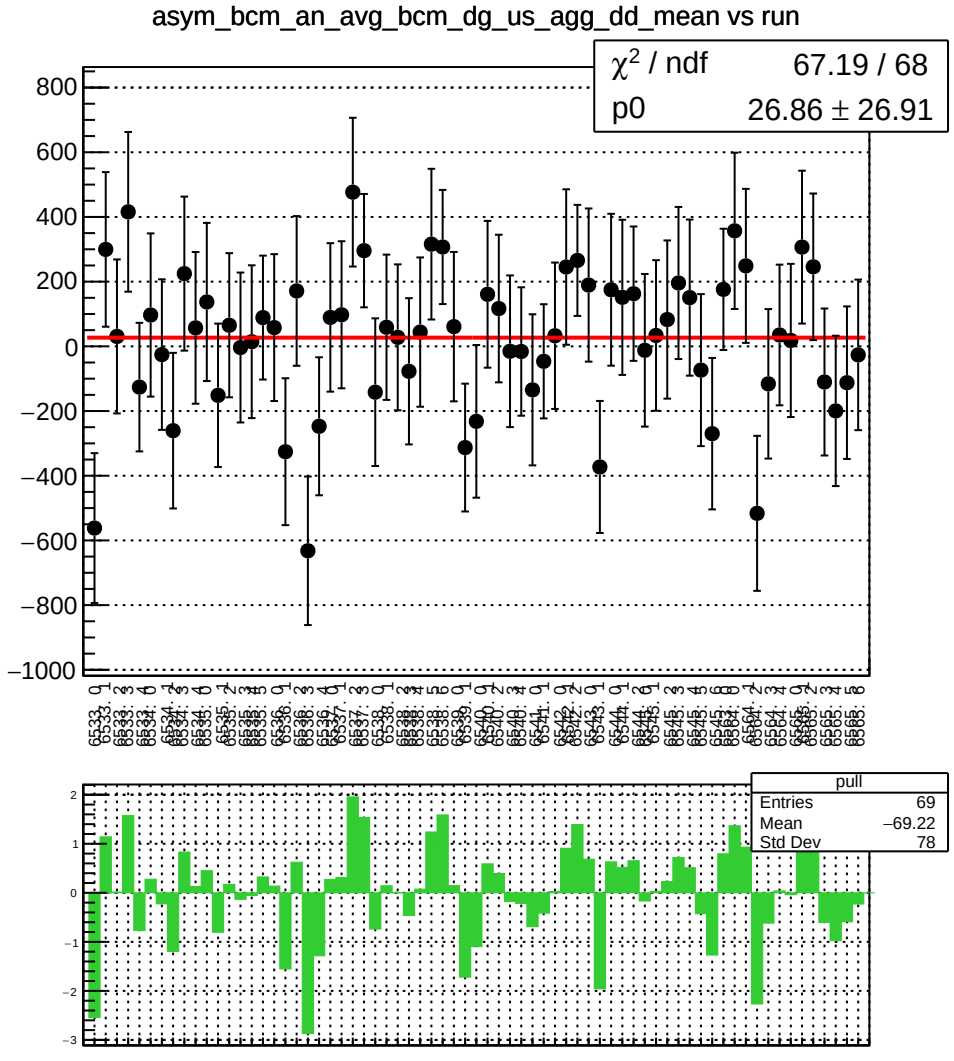

pull1D
Entries 69
Mean −0.002667
Std Dev 0.4209

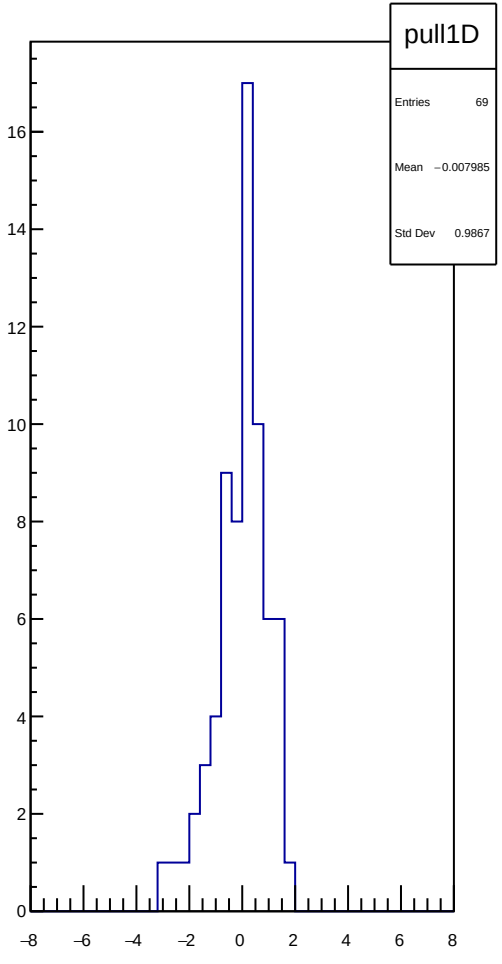

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.318e+04 / 68
p0 217.9 ± 0.189
700
600
500
400
300
200

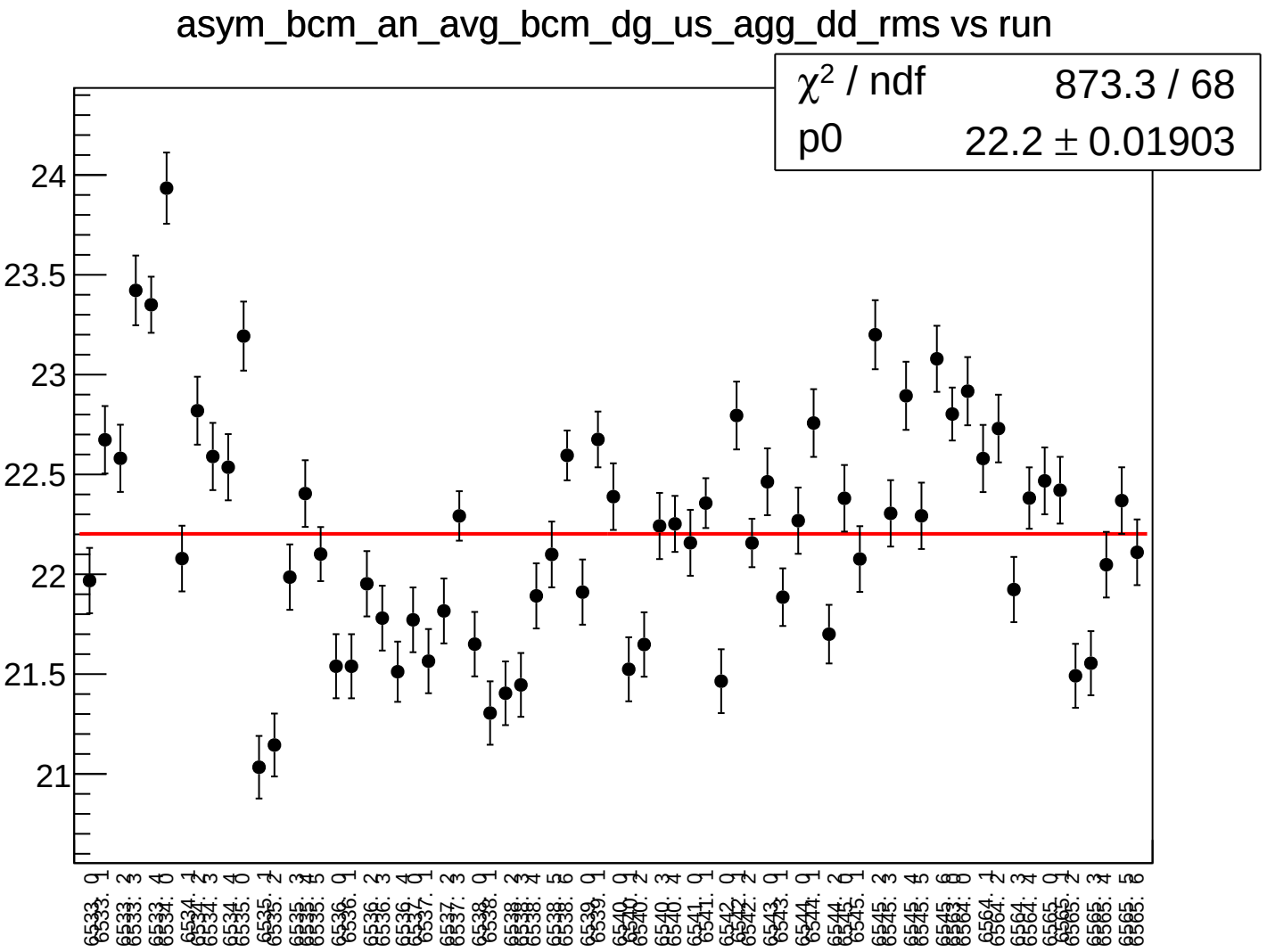

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.34 / 68
p0 39.38 ± 19.62
pull
Entries 69
Mean −671.8
Std Dev 712.6

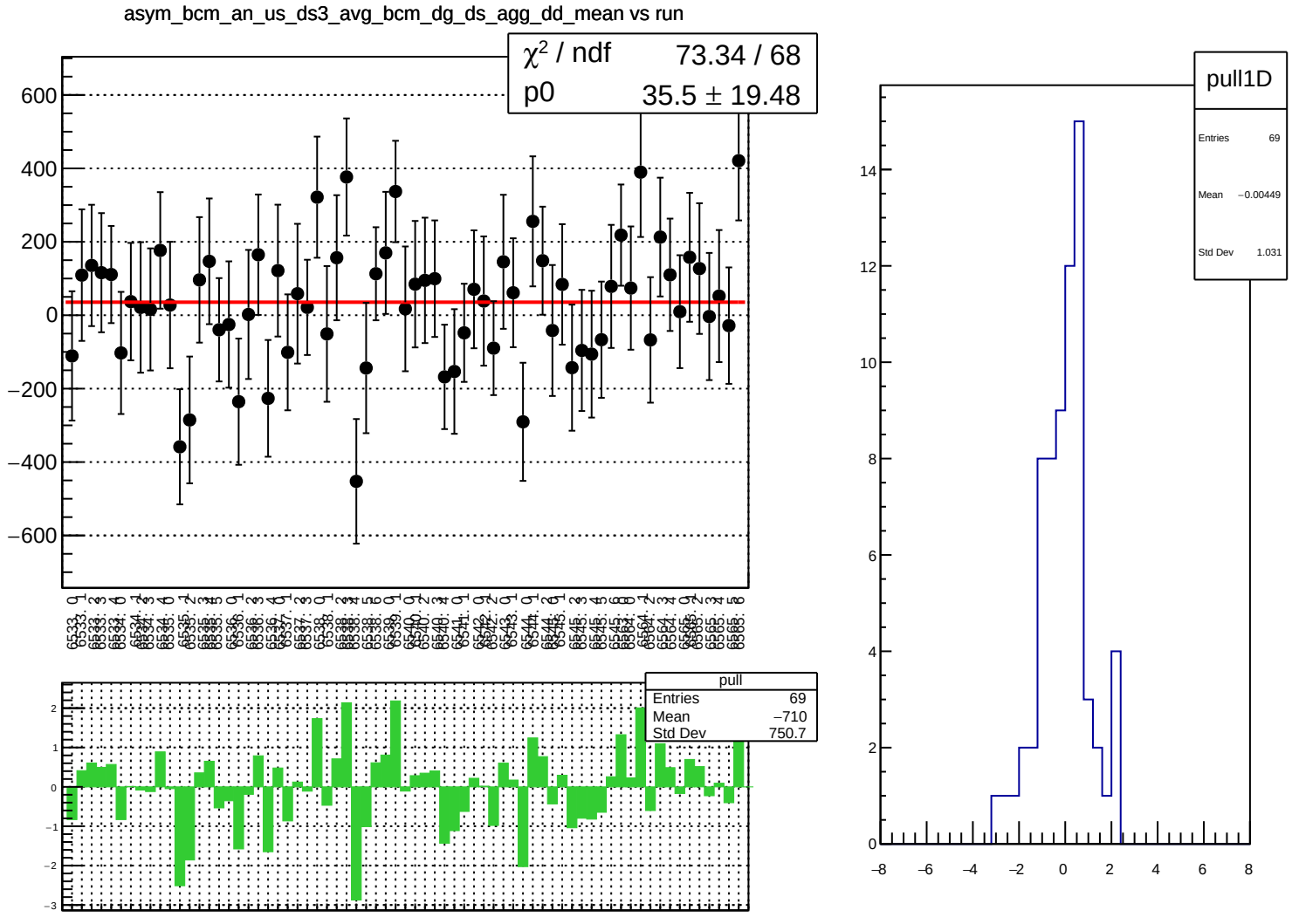

pull1D
Entries 69
Mean −0.004793
Std Dev 1.017

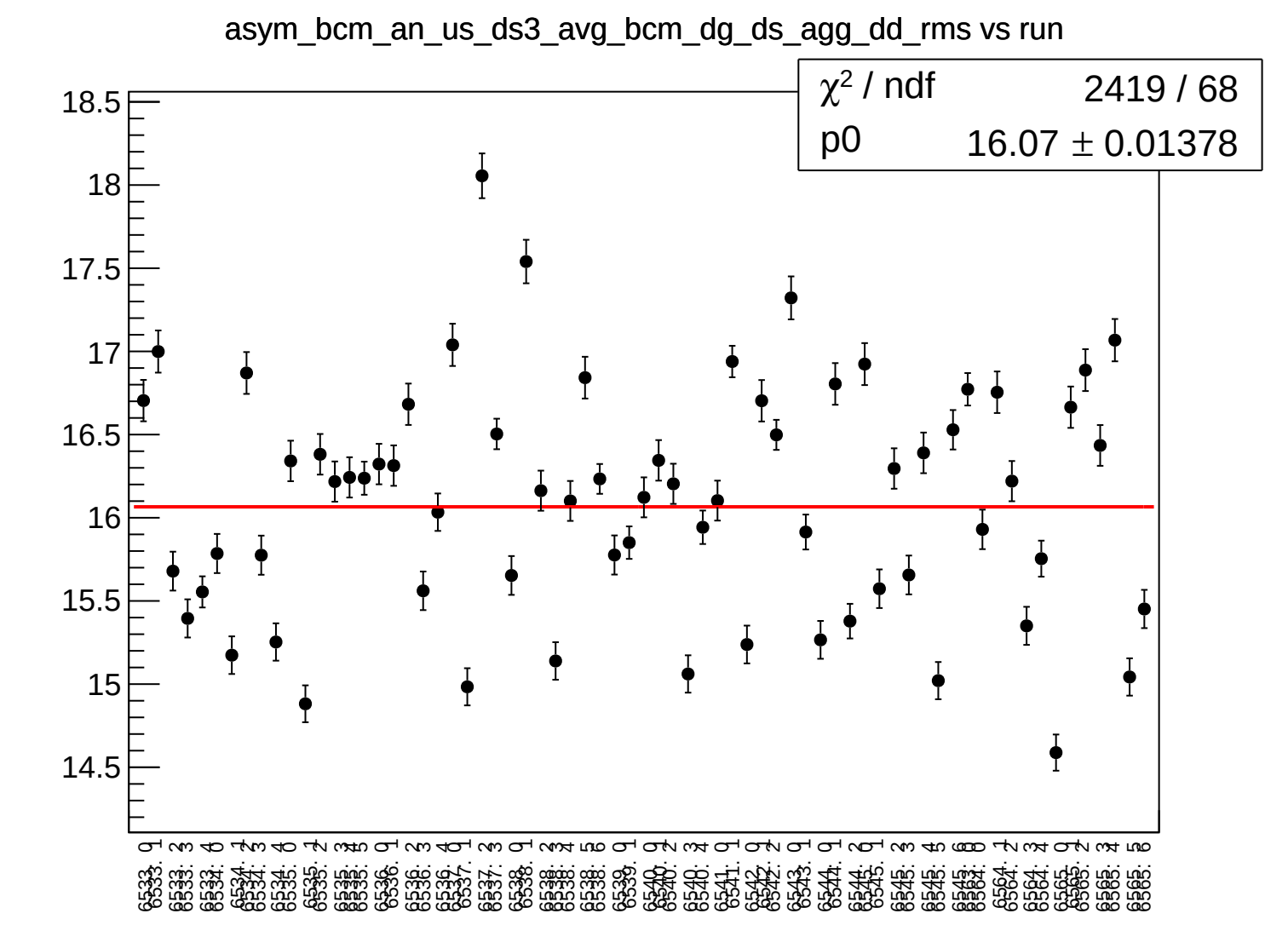

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2432 / 68
p0 16.18 ± 0.01387
18.5
18
17.5
17
16.5
16
15.5
15
14.5

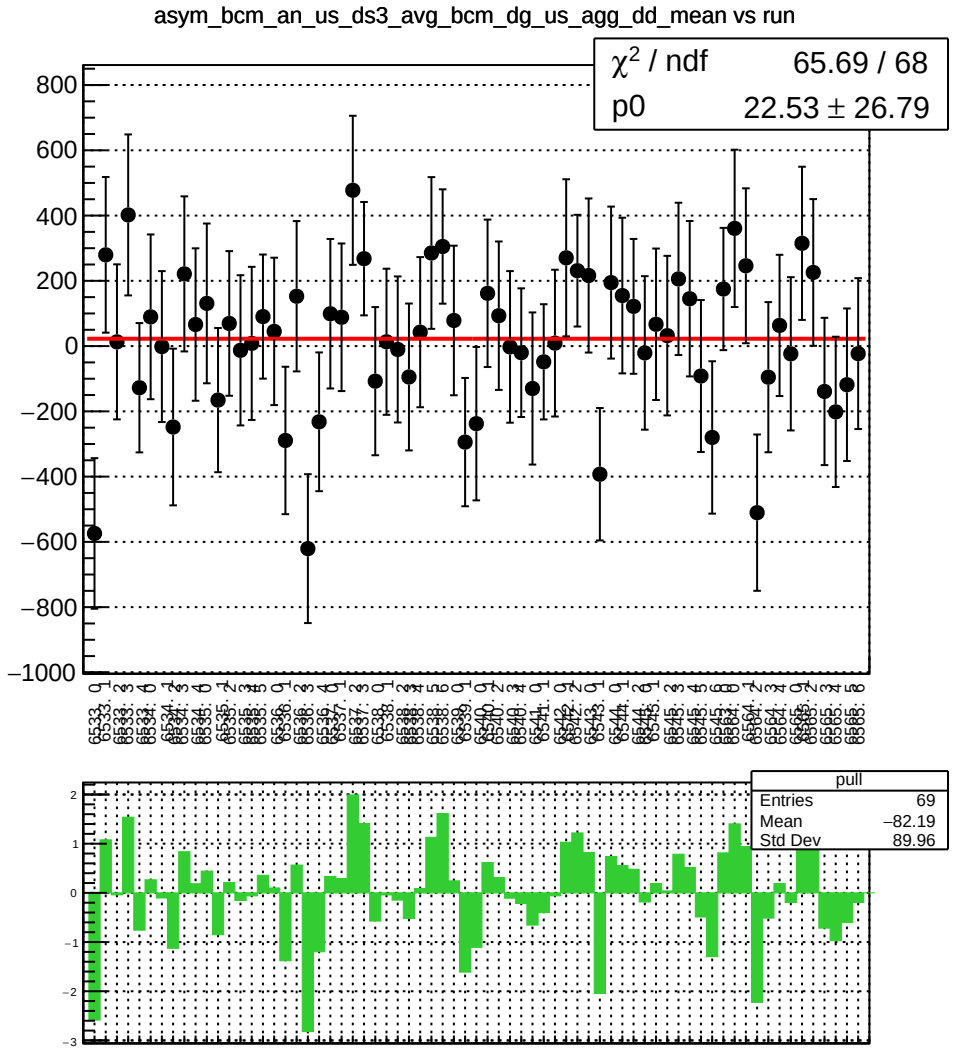

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.19 / 68
p0 26.86 ± 26.91
pull
Entries 69
Mean −69.22
Std Dev 78

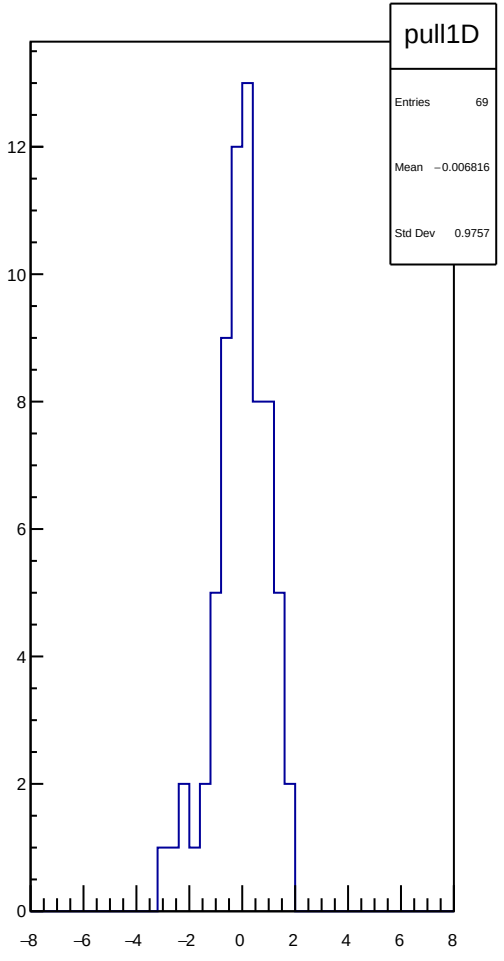

pull1D
Entries 69
Mean −0.007985
Std Dev 0.9867

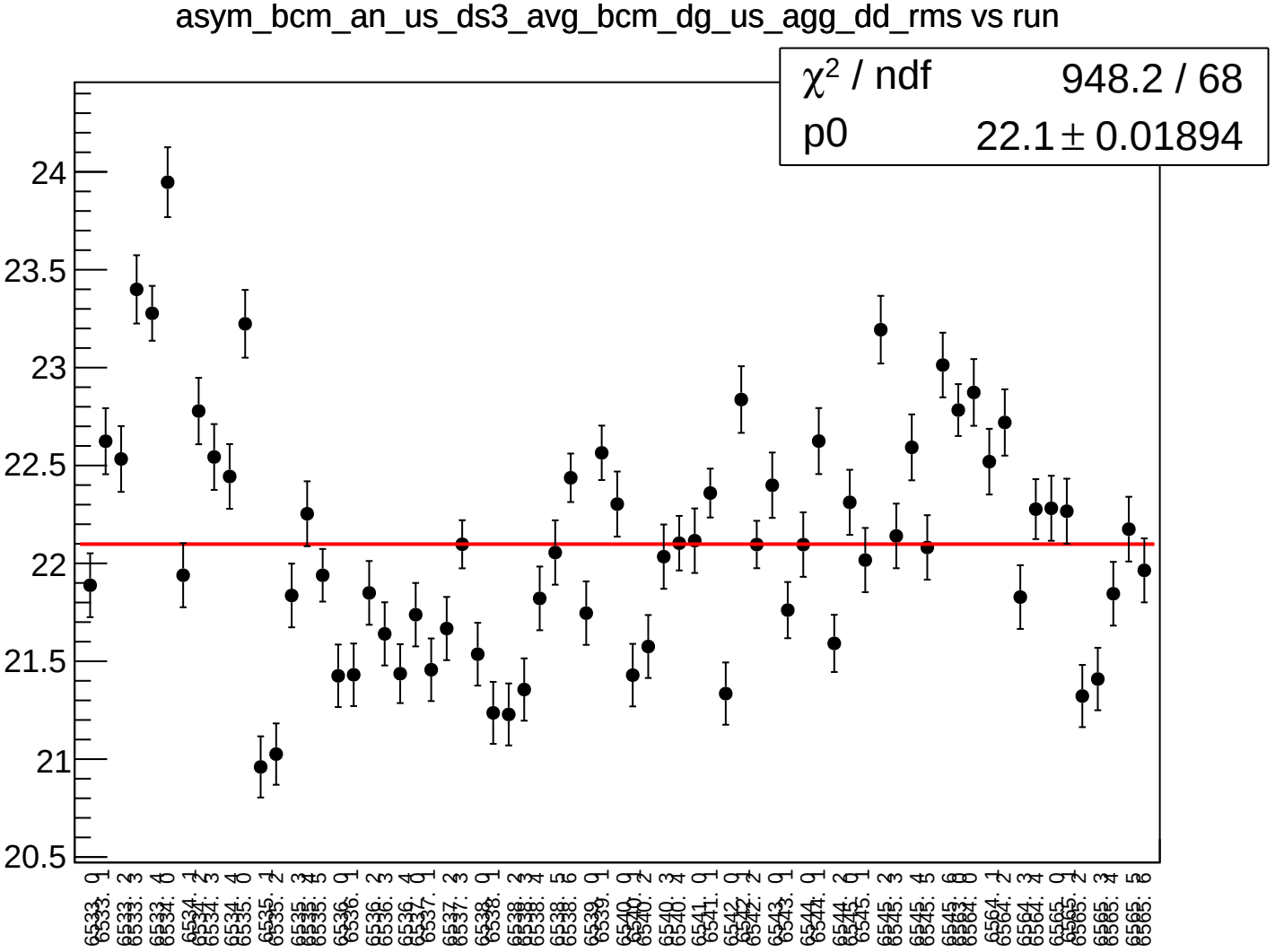

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 873.3 / 68
p0 22.2 ± 0.01903
24
23.5
23
22.5
22
21.5
21

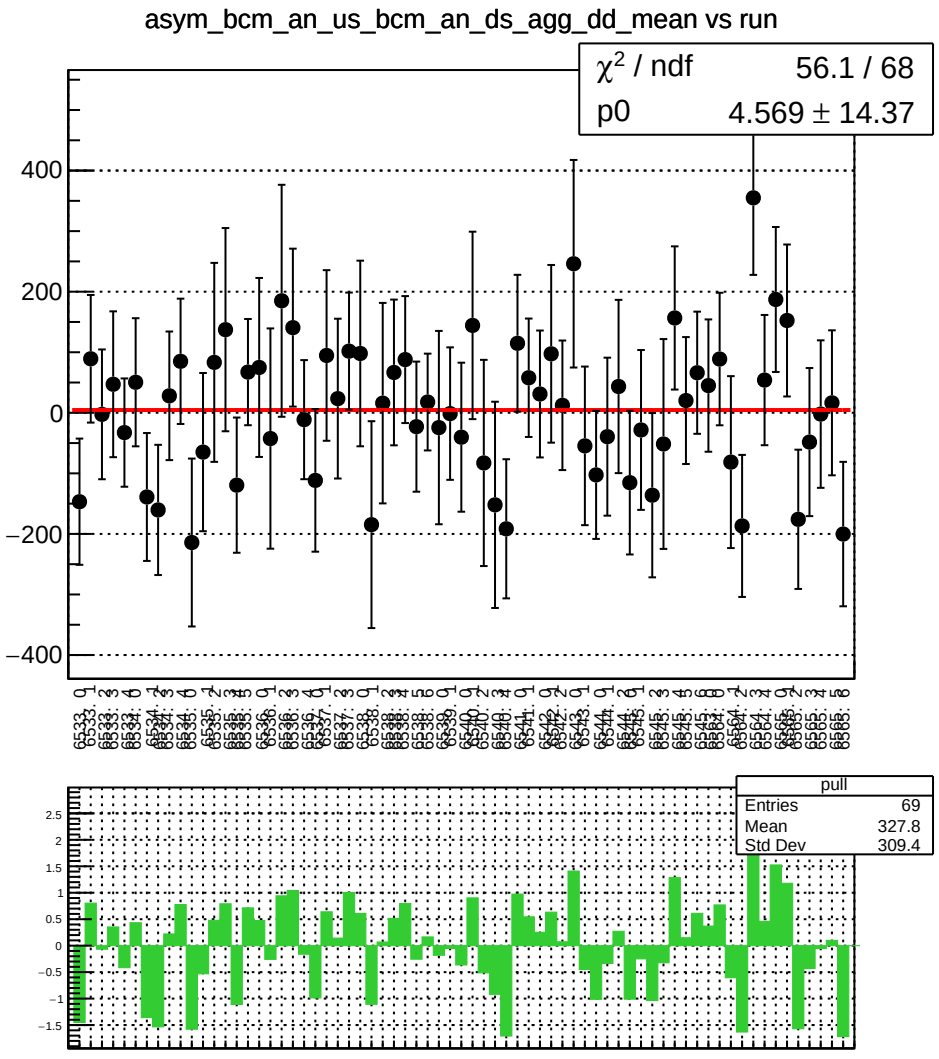

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.34 / 68
p0 35.5 ± 19.48
pull
Entries 69
Mean −710
Std Dev 750.7
pull1D
Entries 69
Mean −0.00449
Std Dev 1.031

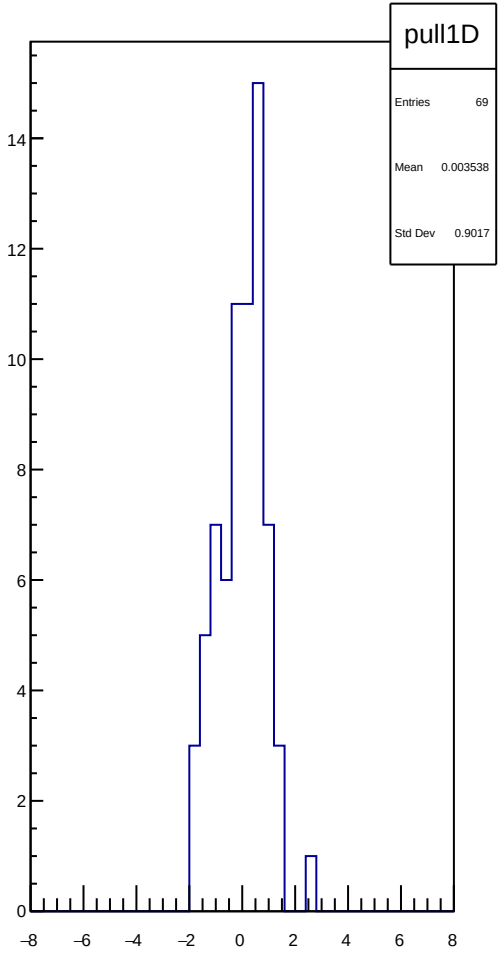

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2419 / 68
p0 16.07 ± 0.01378
18.5
18
17.5
17
16.5
16
15.5
15
14.5

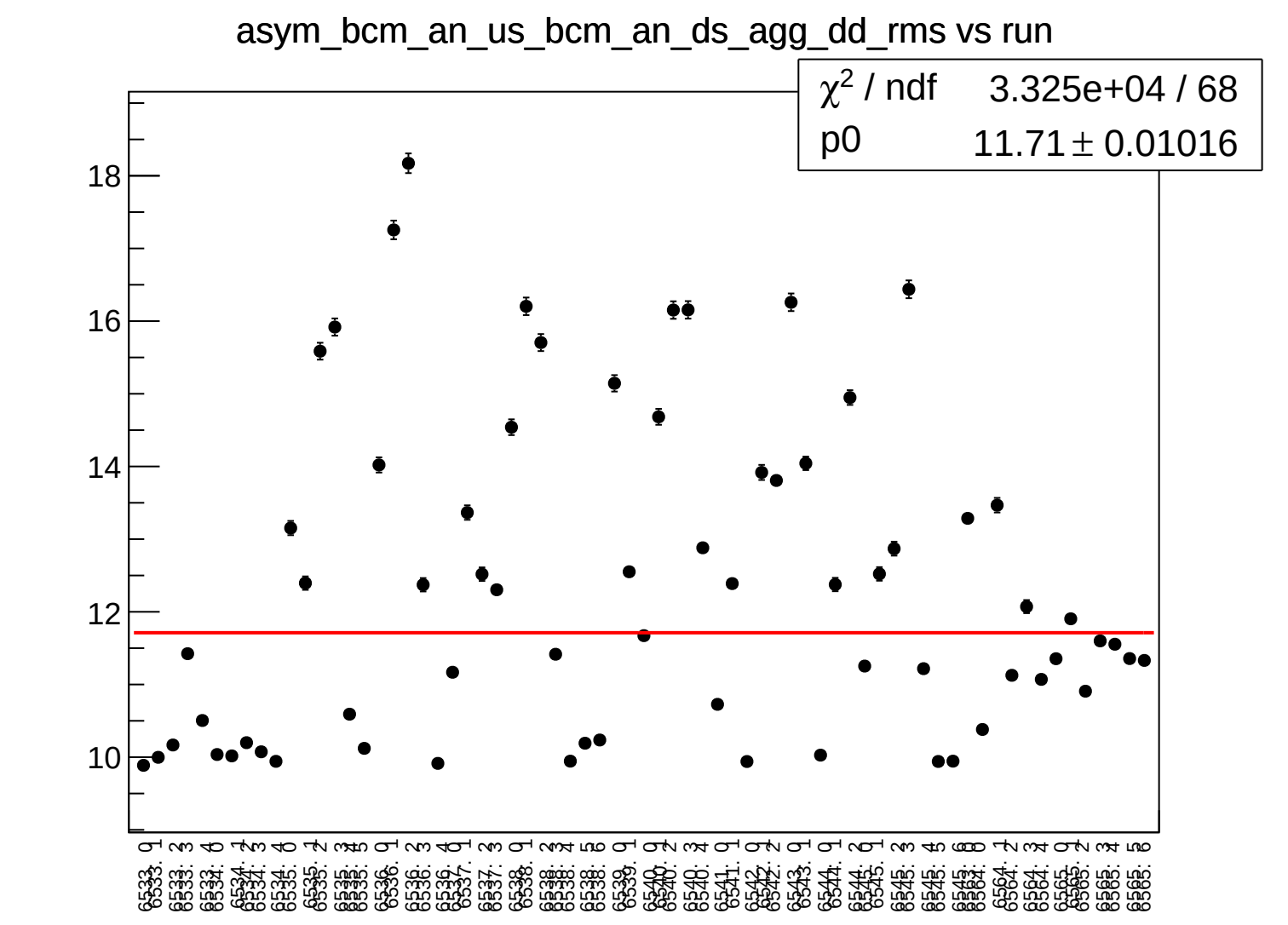

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.69 / 68
p0 22.53 ± 26.79
pull
Entries 69
Mean −82.19
Std Dev 89.96

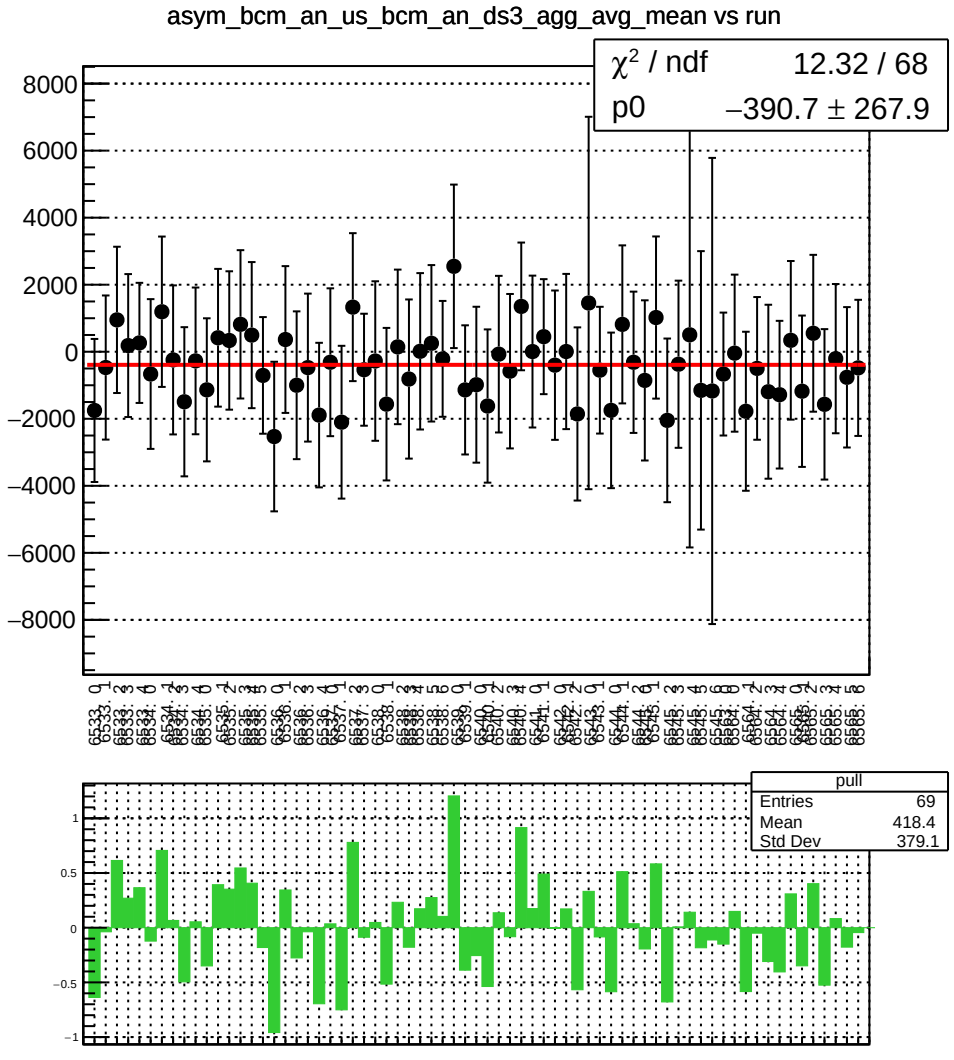

pull1D
Entries 69
Mean −0.006816
Std Dev 0.9757

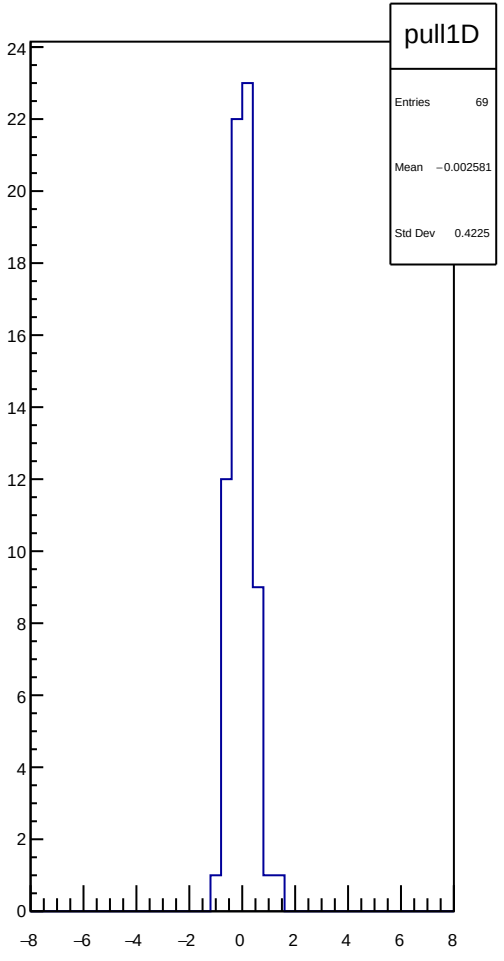

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 948.2 / 68
p0 22.1 ± 0.01894
24
23.5
23
22.5
22
21.5
21
20.5

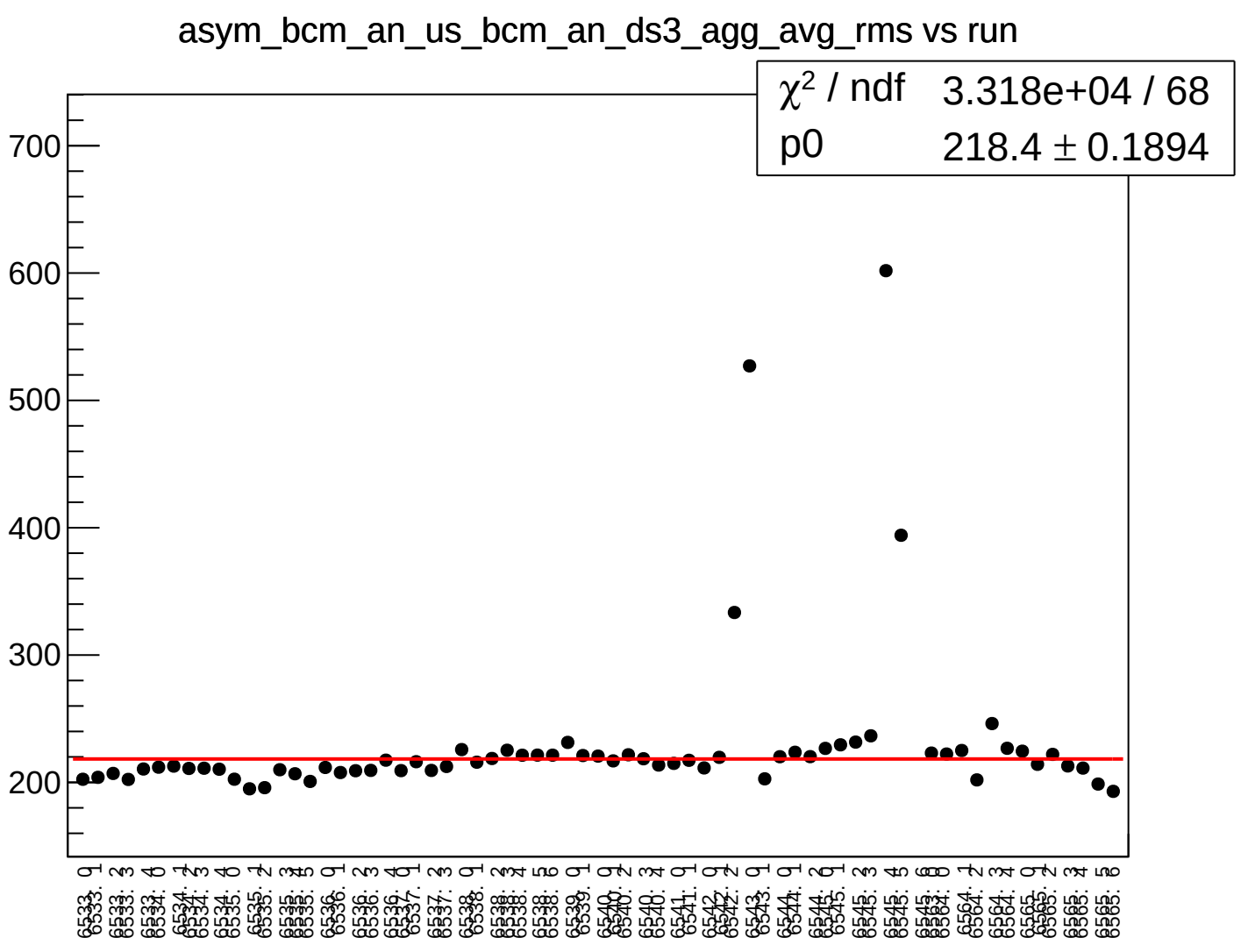

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 56.1 / 68
p0 4.569 ± 14.37
400
200
0
−200
−400
pull
Entries 69
Mean 327.8
Std Dev 309.4
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

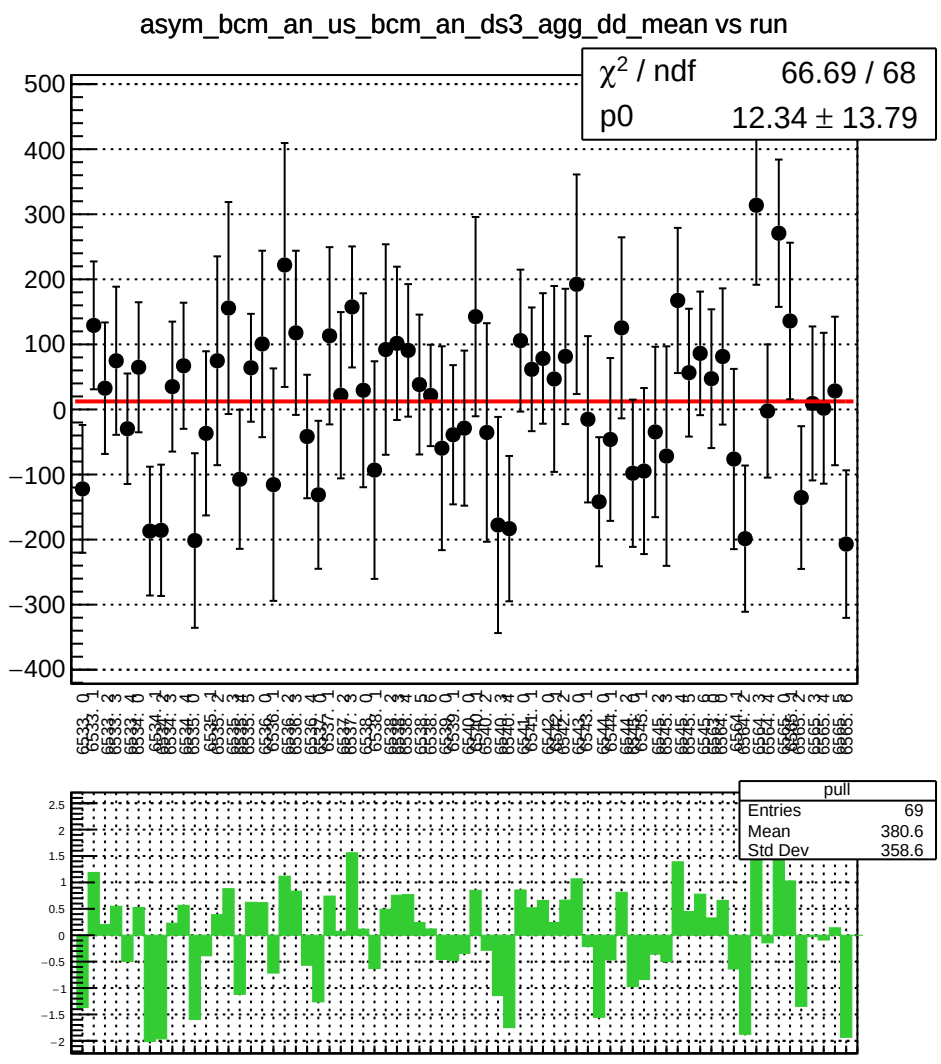

pull1D
Entries 69
Mean 0.003538
Std Dev 0.9017
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

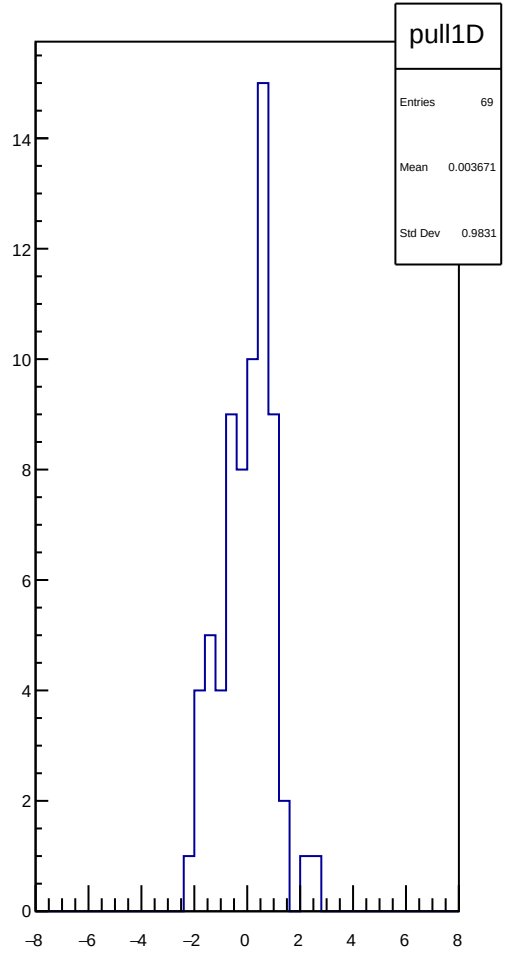

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.325e+04 / 68
p0 11.71 ± 0.01016
18
16
14
12
10

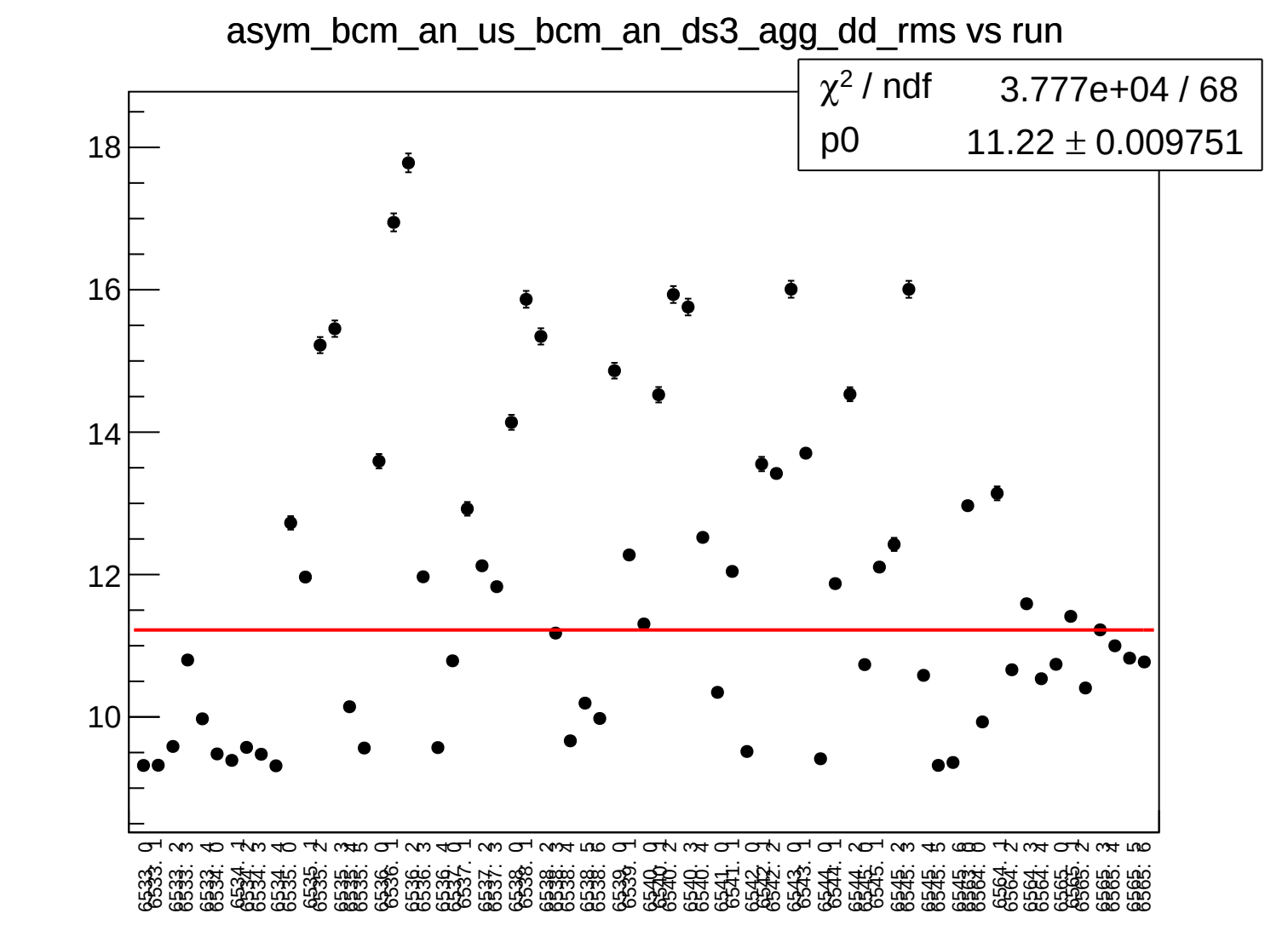

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.32 / 68
p0 −390.7 ± 267.9
pull
Entries 69
Mean 418.4
Std Dev 379.1

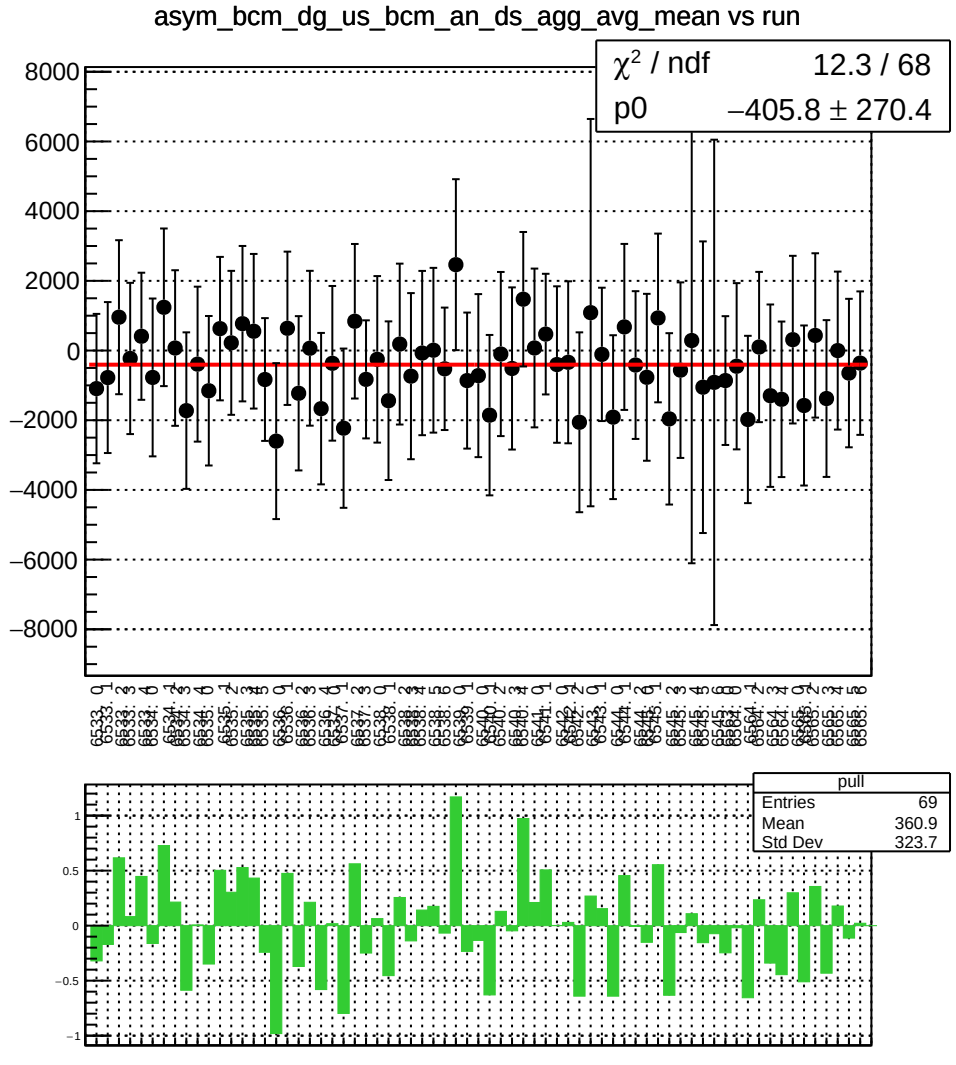

pull1D
Entries 69
Mean −0.002581
Std Dev 0.4225

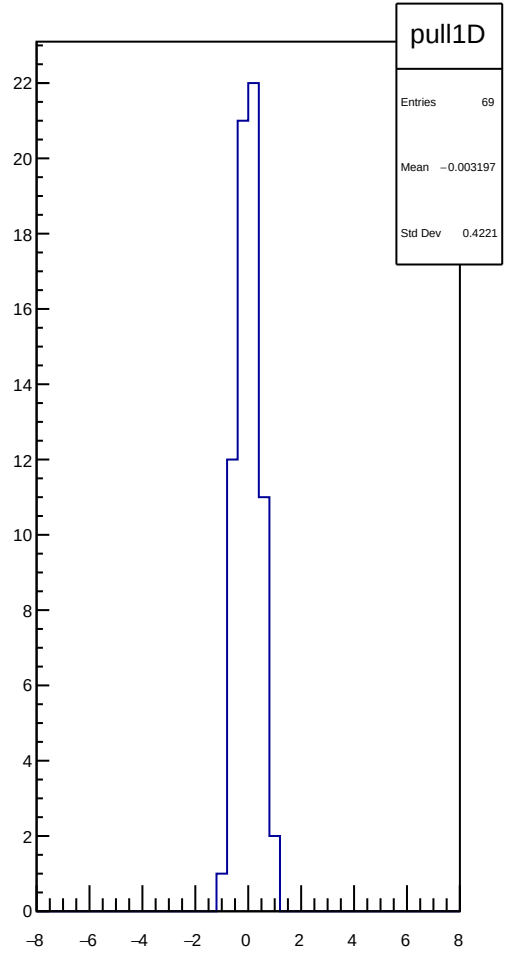

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 3.318e+04 / 68
p0 218.4 ± 0.1894
700
600
500
400
300
200

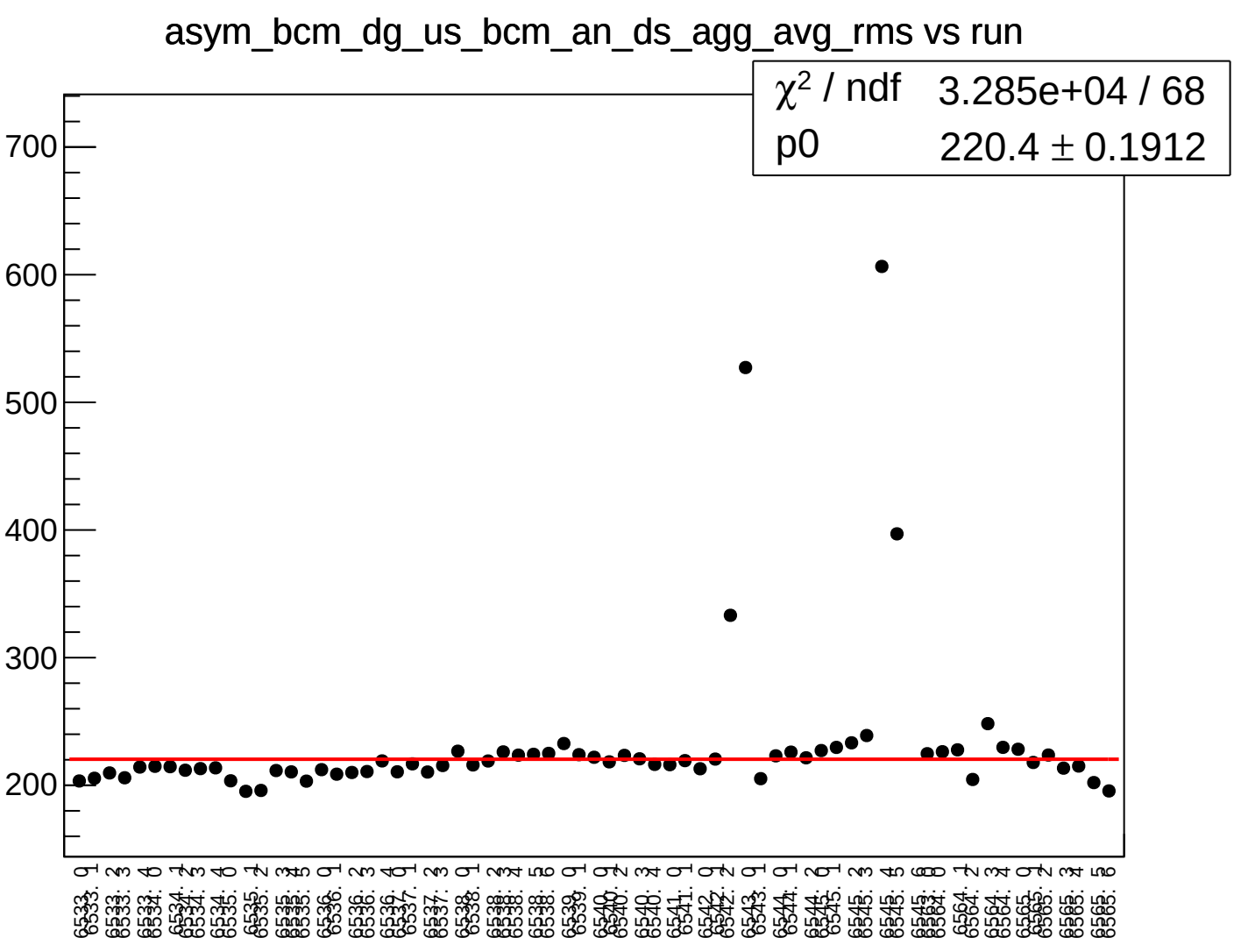

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 66.69 / 68
p0 12.34 ± 13.79
pull
Entries 69
Mean 380.6
Std Dev 358.6

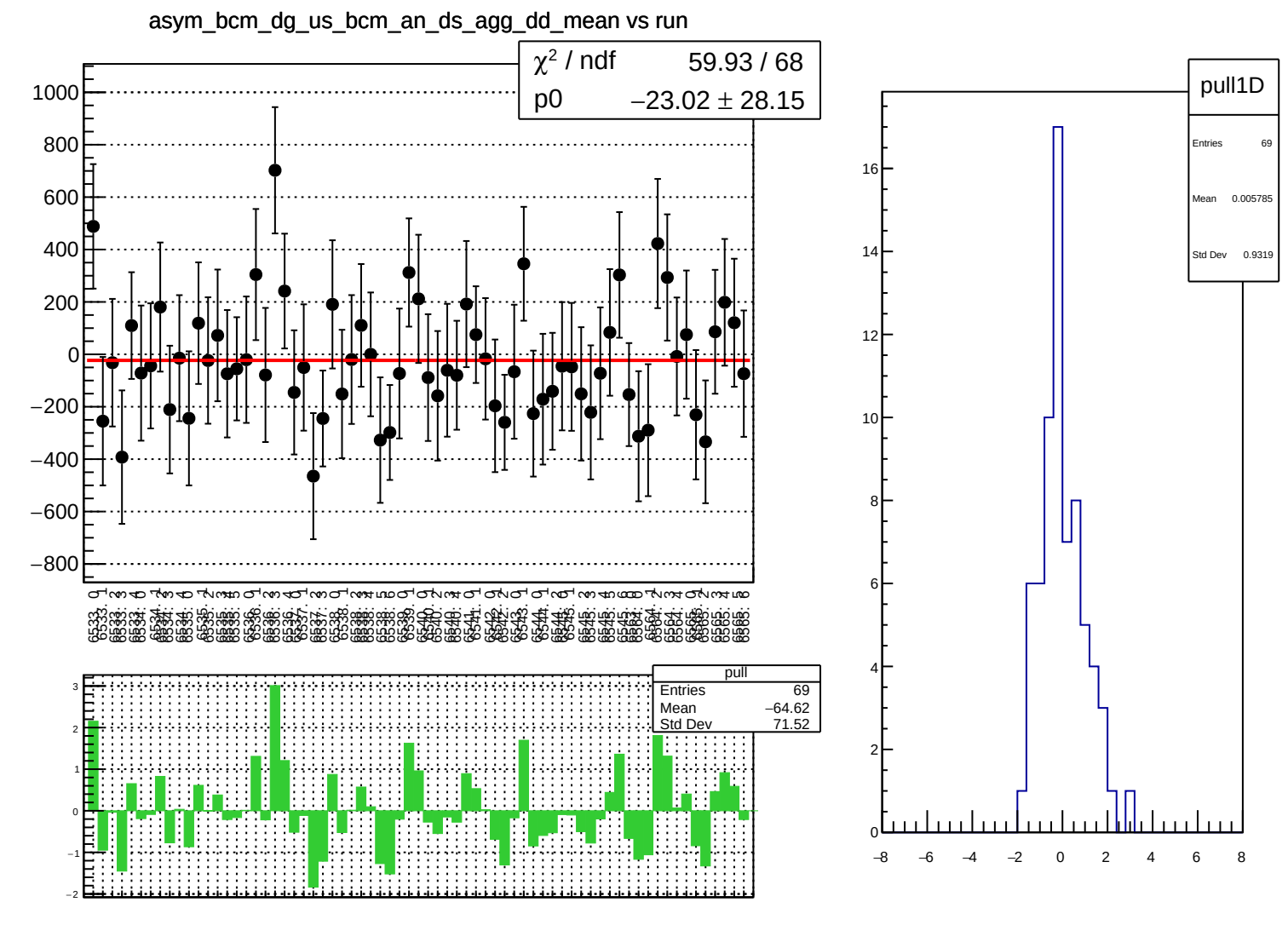

pull1D
Entries 69
Mean 0.003671
Std Dev 0.9831

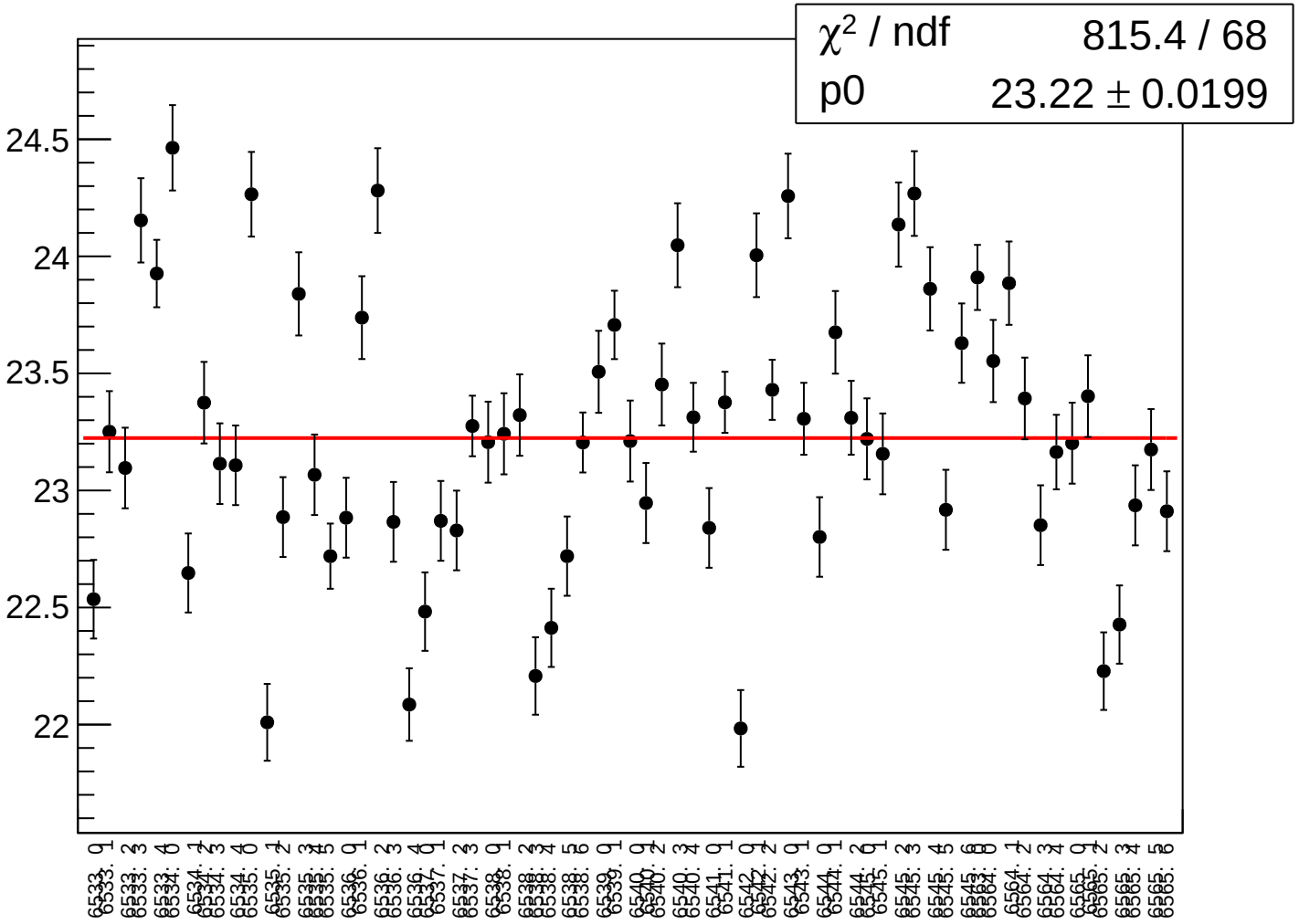

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3.777e+04 / 68
p0 11.22 ± 0.009751
18
16
14
12
10

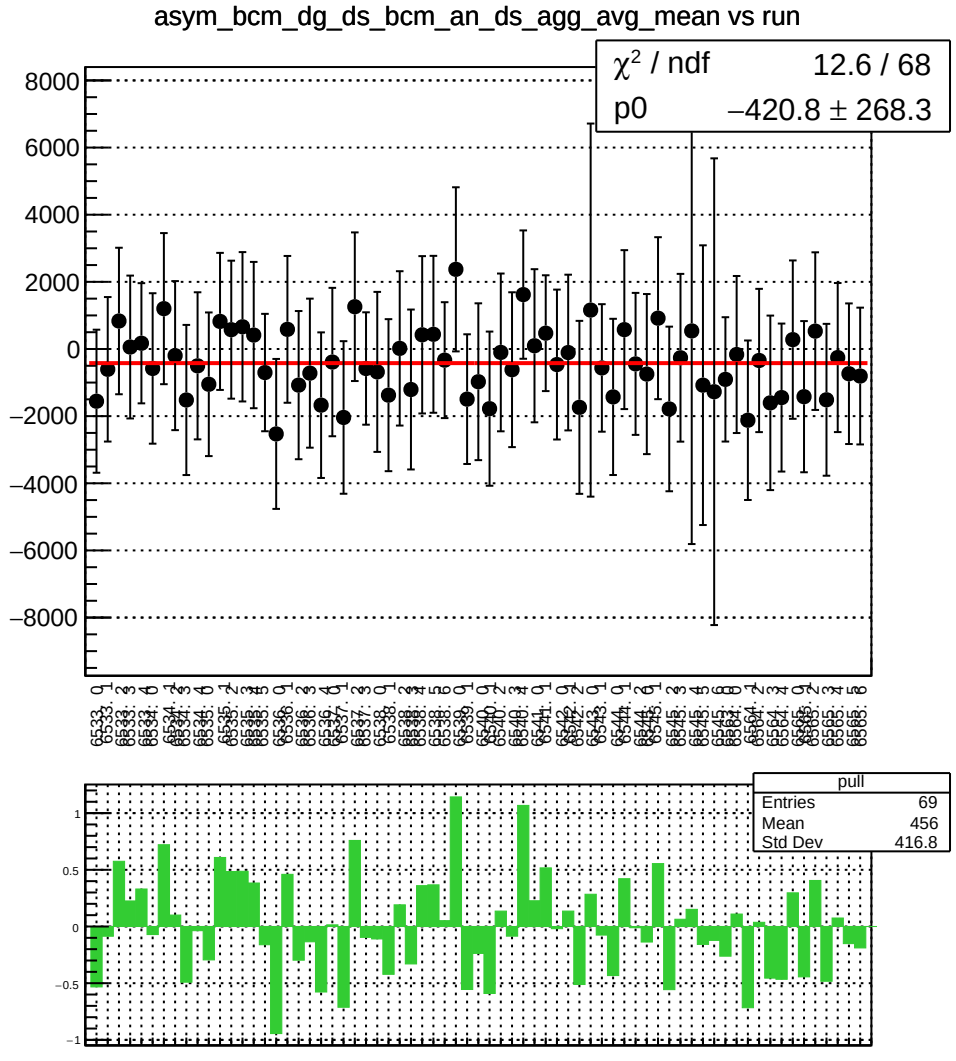

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.3 / 68
p0 −405.8 ± 270.4
pull
Entries 69
Mean 360.9
Std Dev 323.7

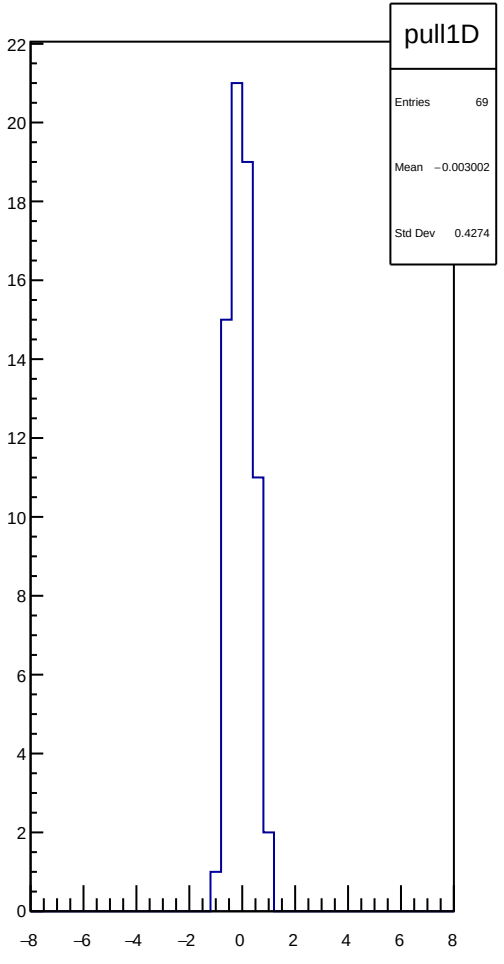

pull1D
Entries 69
Mean −0.003197
Std Dev 0.4221

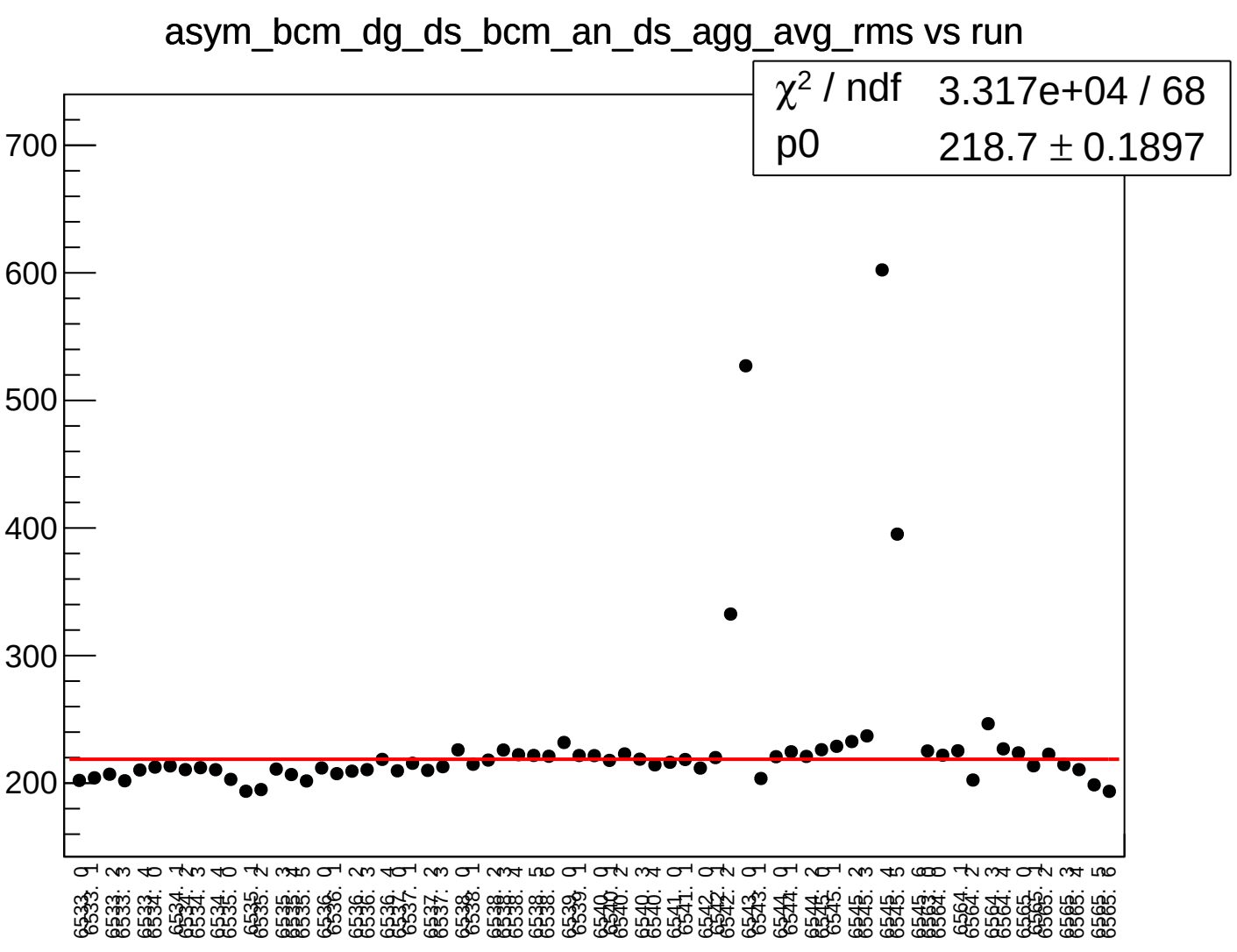

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.285e+04 / 68
p0 220.4 ± 0.1912
700
600
500
400
300
200

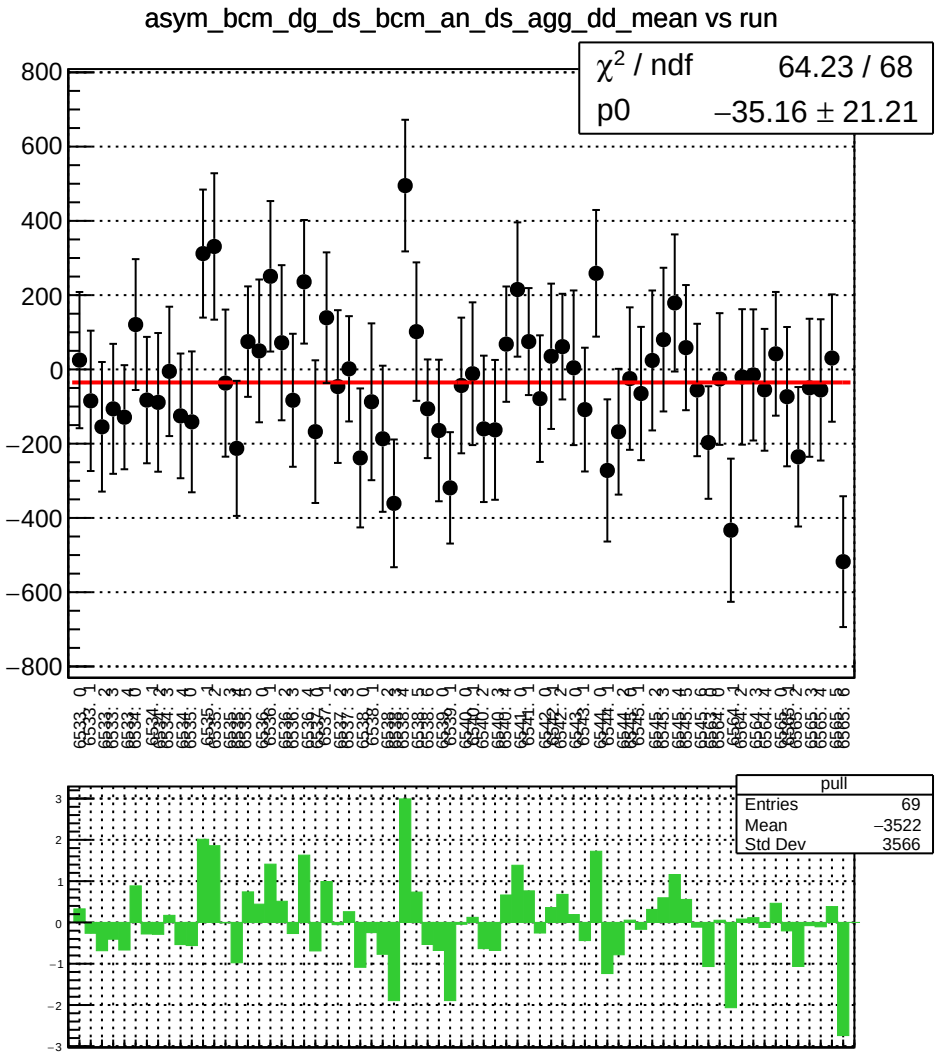

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 59.93 / 68
p0 −23.02 ± 28.15
pull
Entries 69
Mean −64.62
Std Dev 71.52
pull1D
Entries 69
Mean 0.005785
Std Dev 0.9319

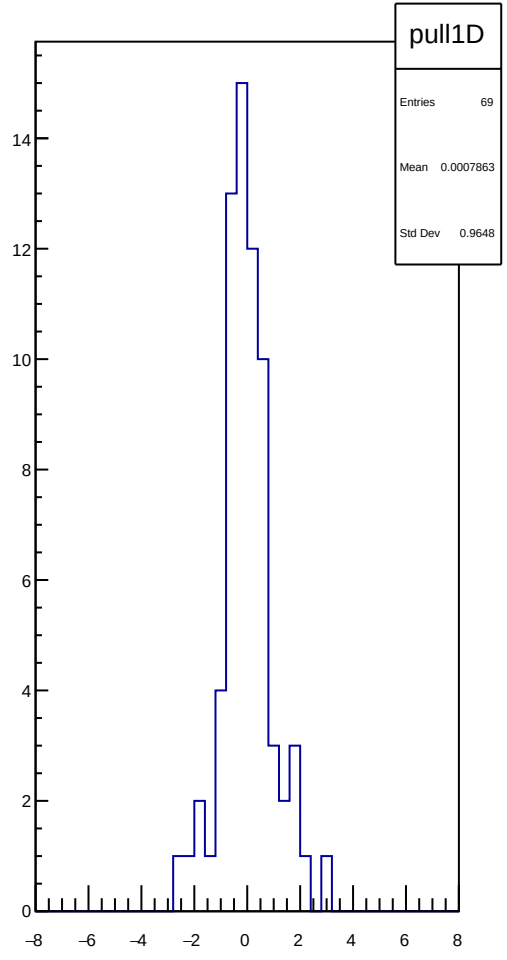

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 815.4 / 68
p0 23.22 ± 0.0199
24.5
24
23.5
23
22.5
22

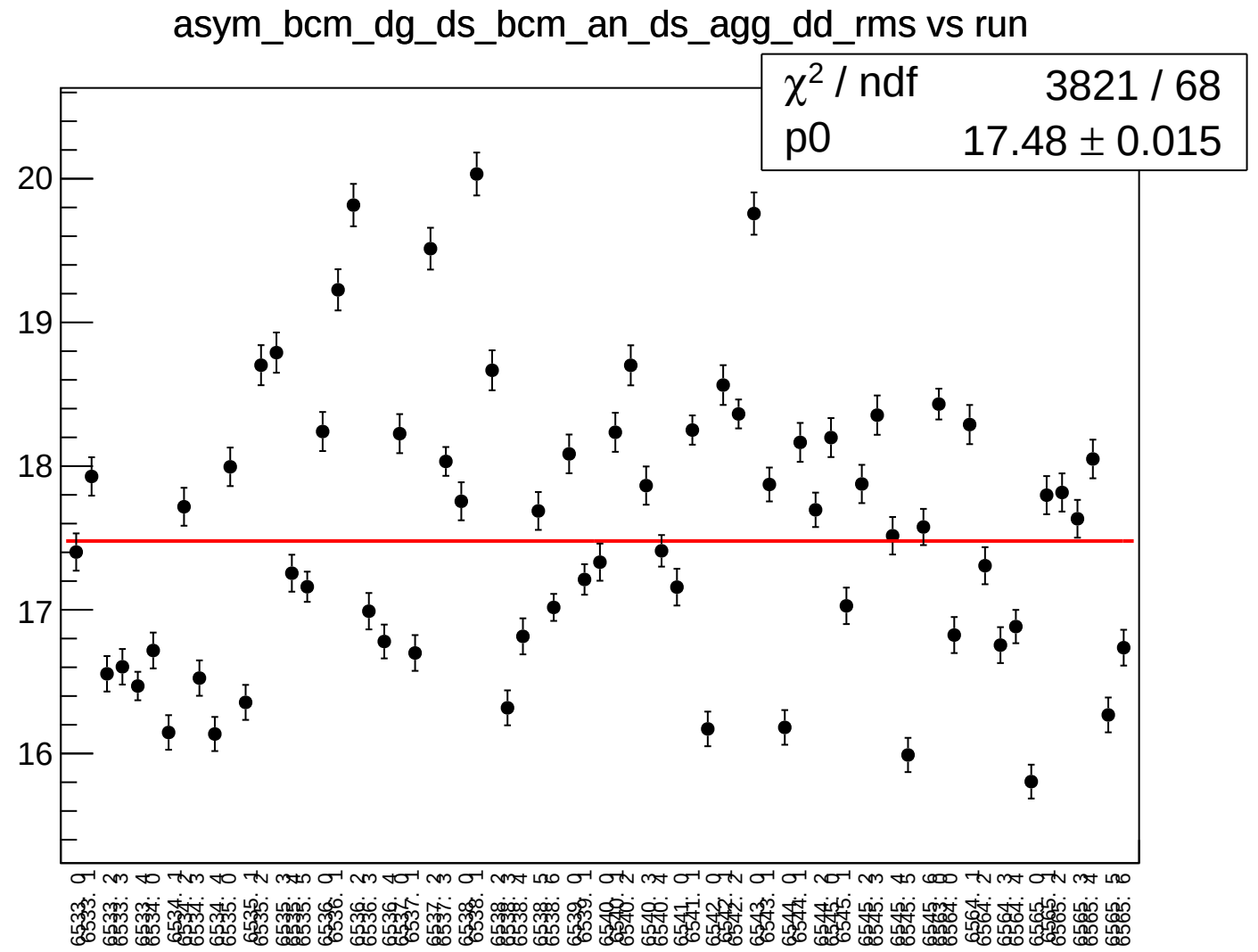

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.6 / 68
p0 −420.8 ± 268.3
pull
Entries 69
Mean 456
Std Dev 416.8

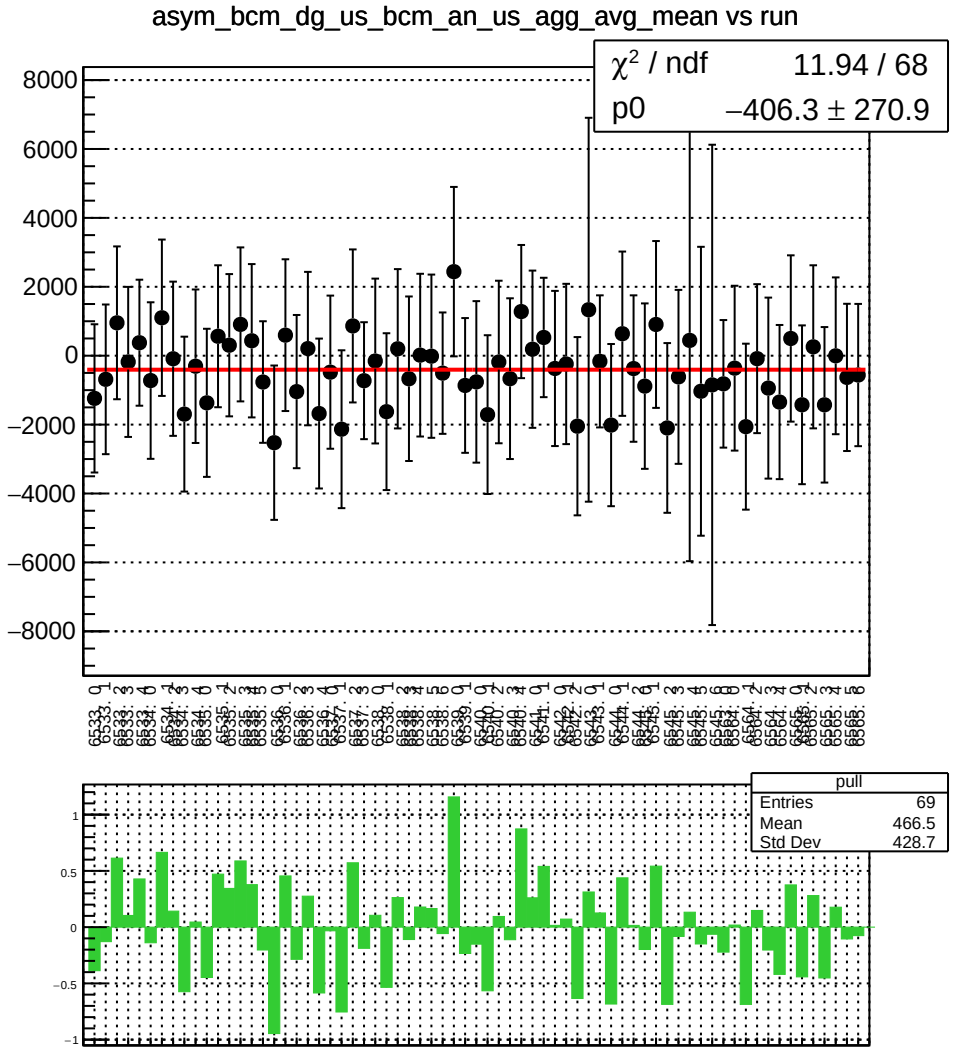

pull1D
Entries 69
Mean −0.003002
Std Dev 0.4274

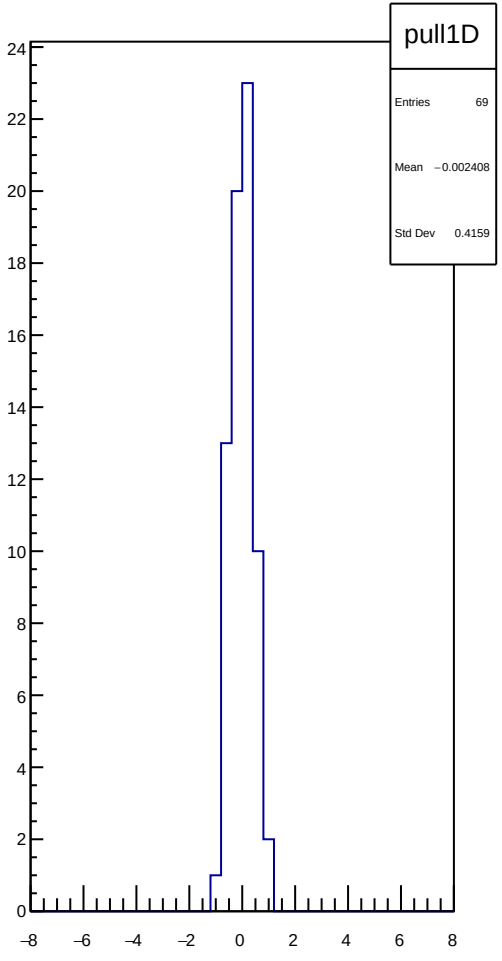

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.317e+04 / 68
p0 218.7 ± 0.1897
700
600
500
400
300
200

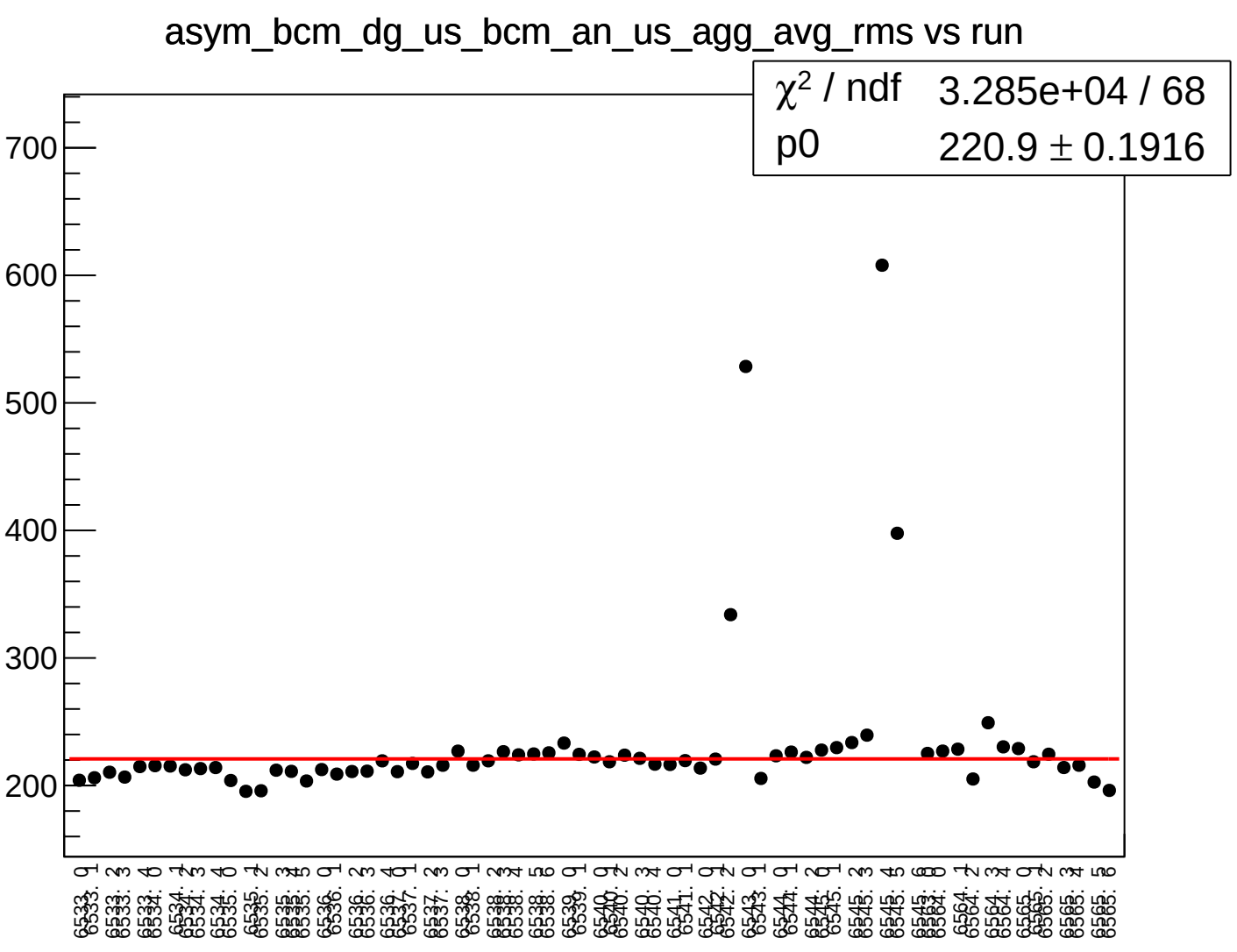

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.23 / 68
p0 −35.16 ± 21.21
pull
Entries 69
Mean −3522
Std Dev 3566

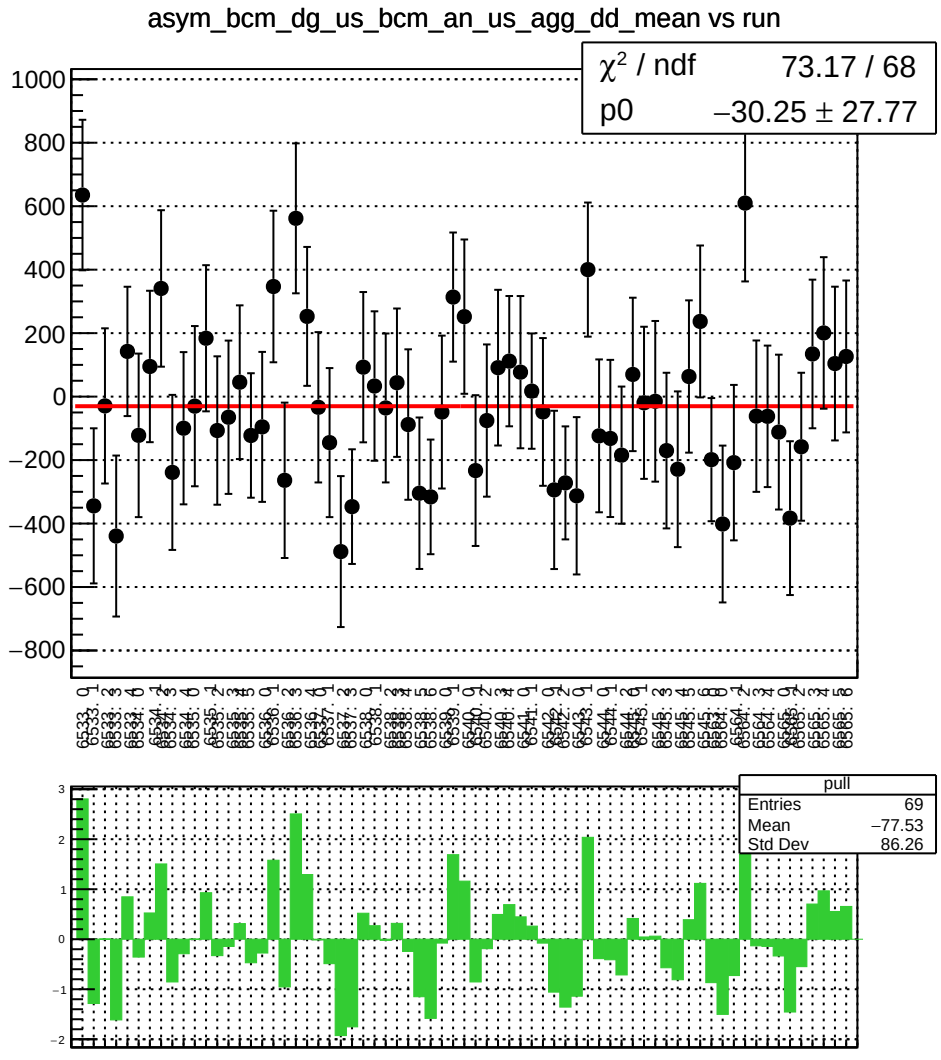

pull1D
Entries 69
Mean 0.0007863
Std Dev 0.9648

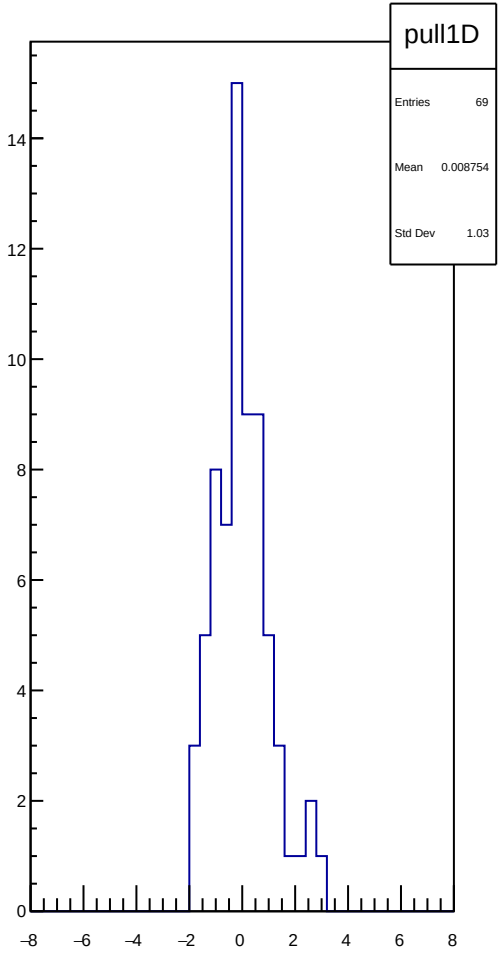

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3821 / 68
p0 17.48 ± 0.015
20
19
18
17
16

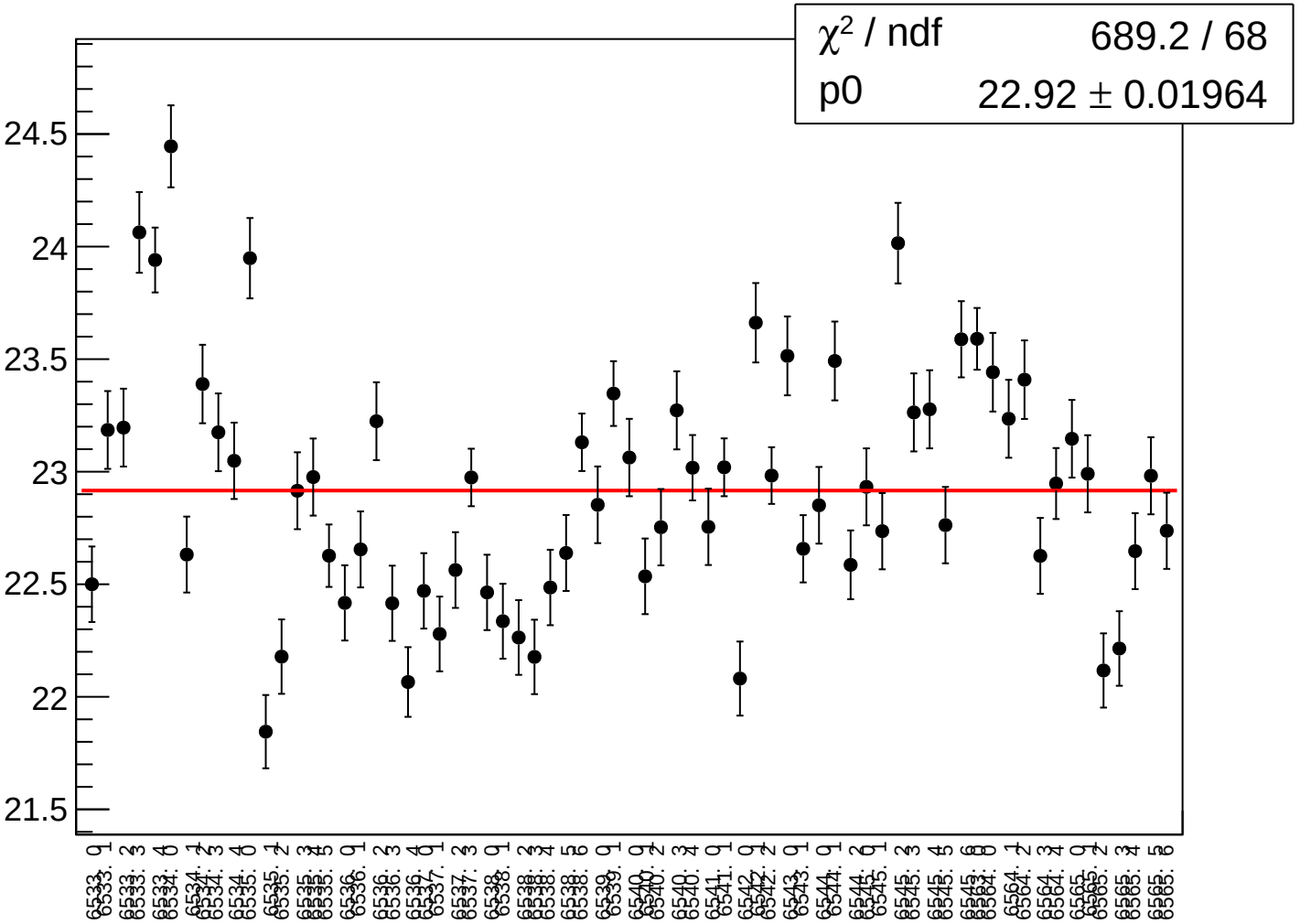

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 11.94 / 68
p0 −406.3 ± 270.9
pull
Entries 69
Mean 466.5
Std Dev 428.7

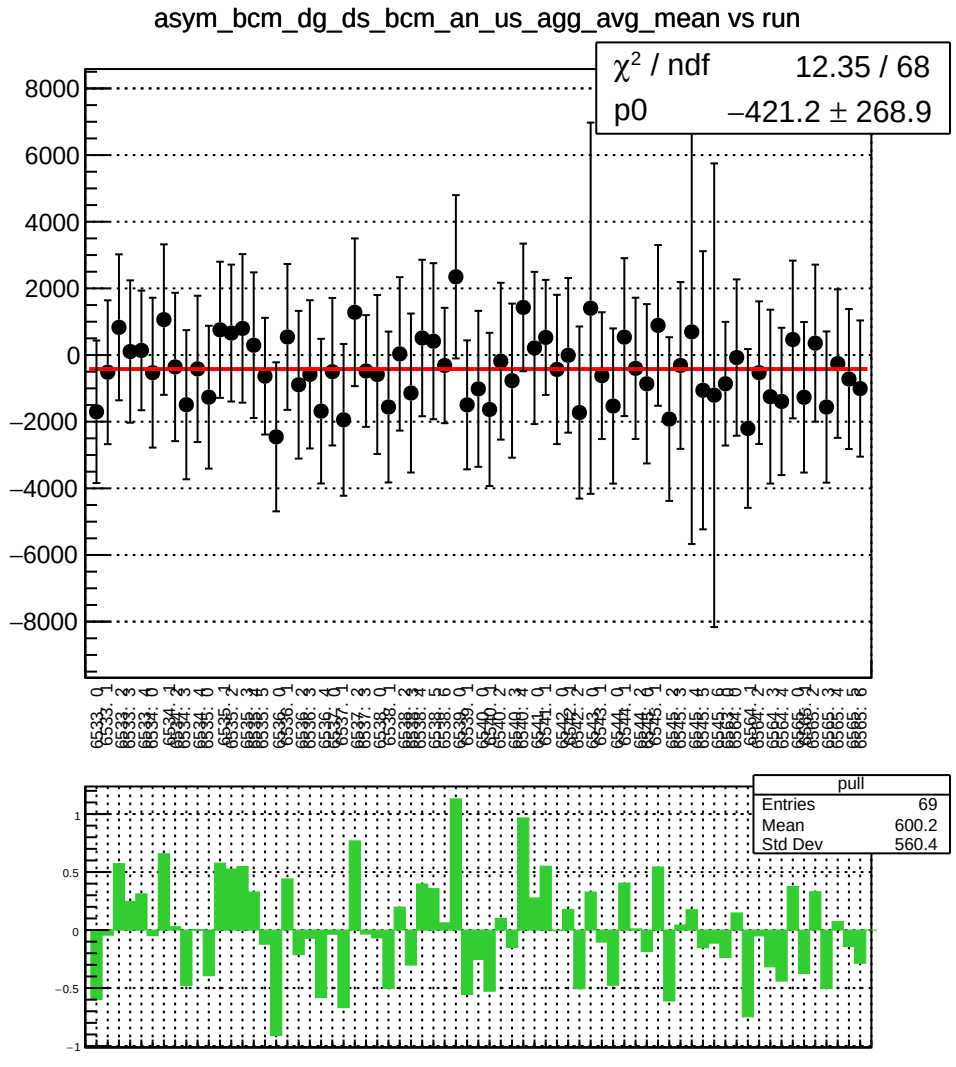

pull1D
Entries 69
Mean −0.002408
Std Dev 0.4159

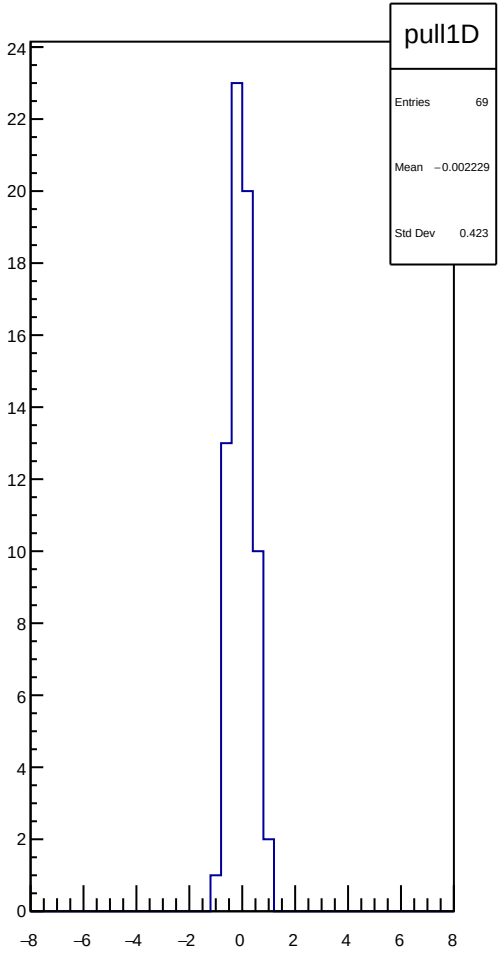

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.285e+04 / 68
p0 220.9 ± 0.1916
700
600
500
400
300
200

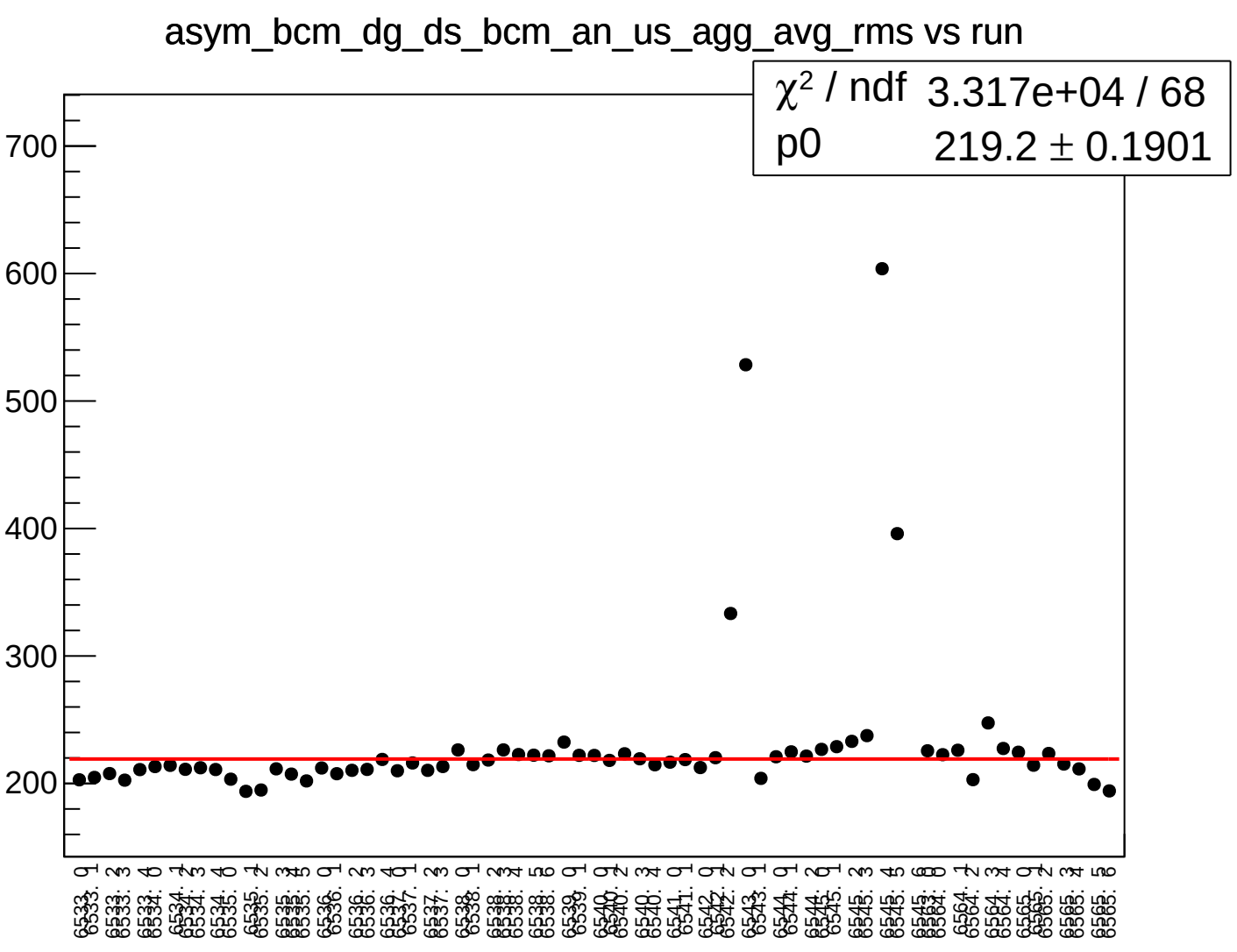

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 73.17 / 68
p0 −30.25 ± 27.77
pull
Entries 69
Mean −77.53
Std Dev 86.26

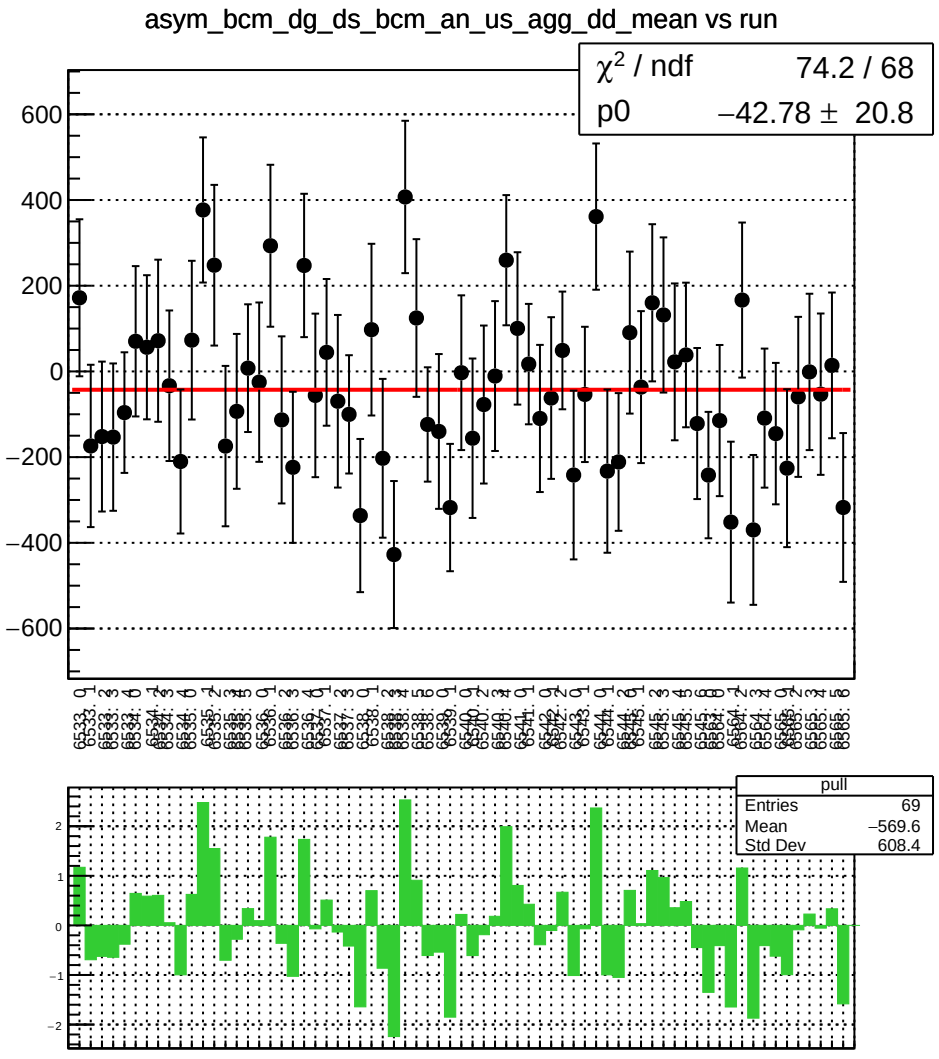

pull1D
Entries 69
Mean 0.008754
Std Dev 1.03

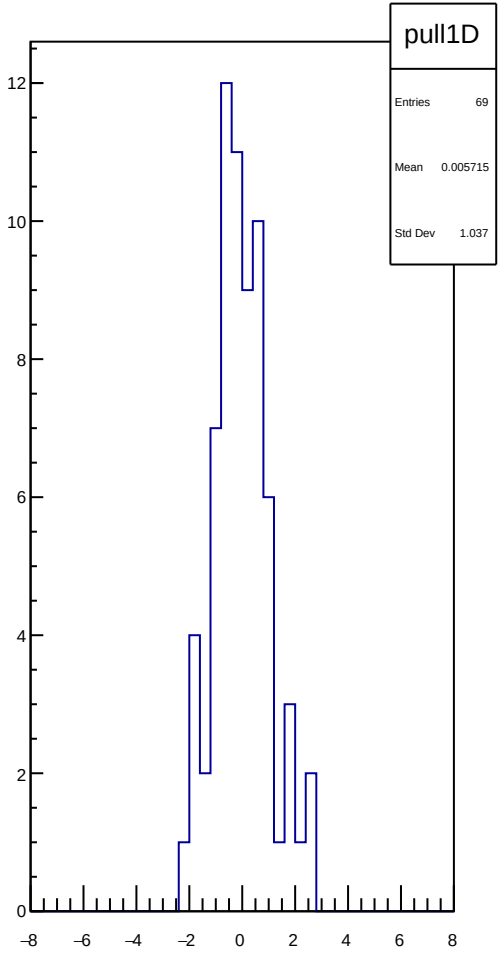

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 689.2 / 68
p0 22.92 ± 0.01964
24.5
24
23.5
23
22.5
22
21.5

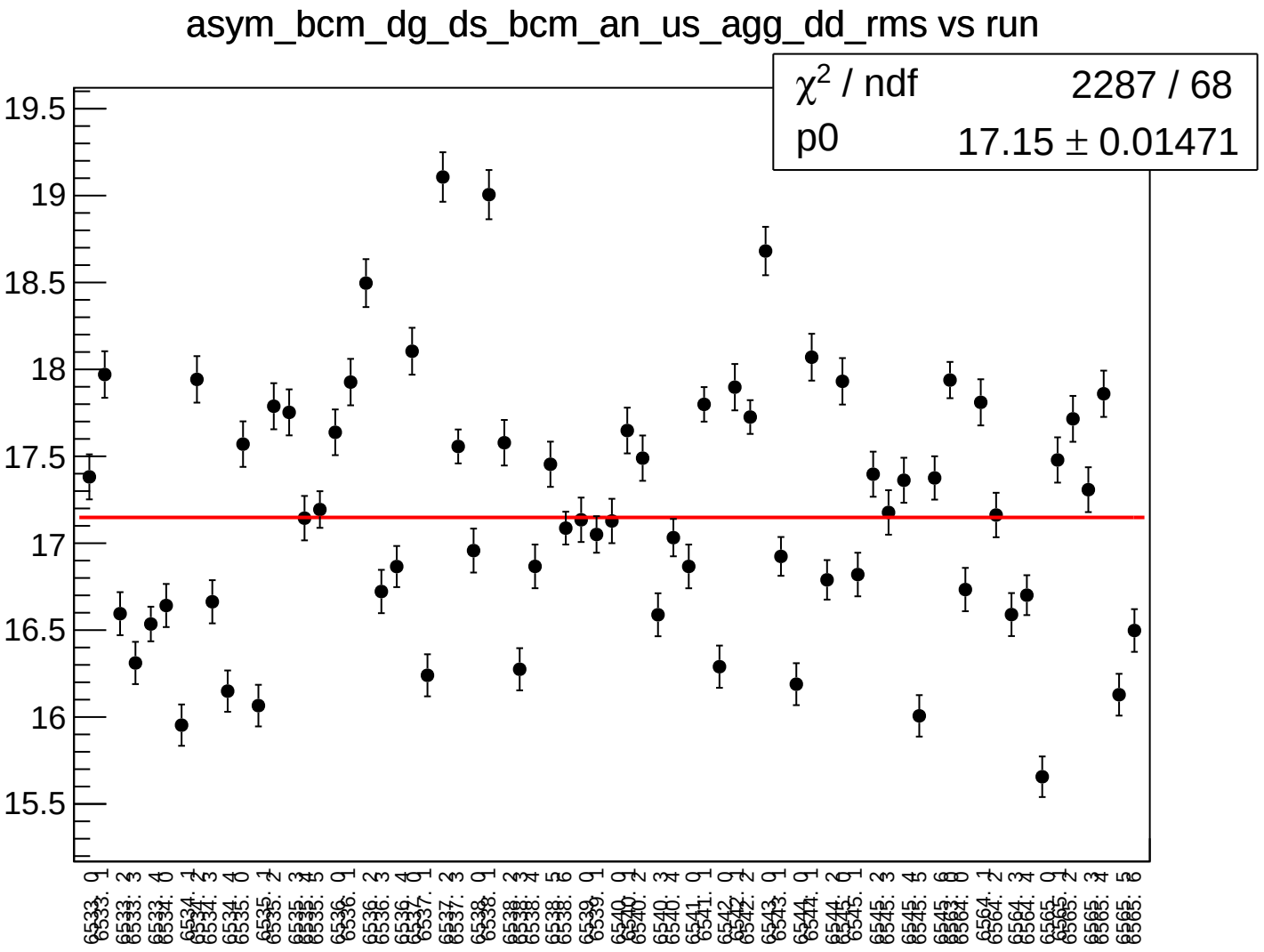

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.35 / 68
p0 −421.2 ± 268.9
pull
Entries 69
Mean 600.2
Std Dev 560.4

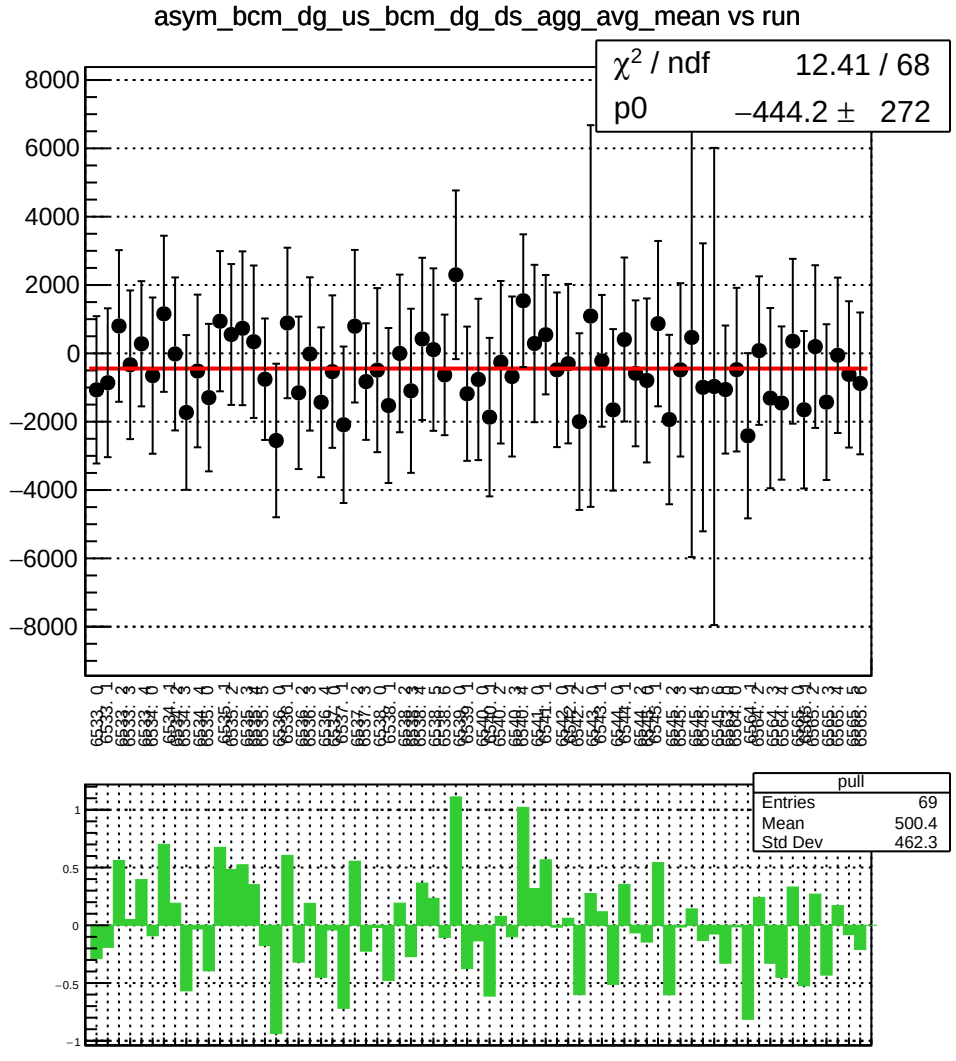

pull1D
Entries 69
Mean −0.002229
Std Dev 0.423

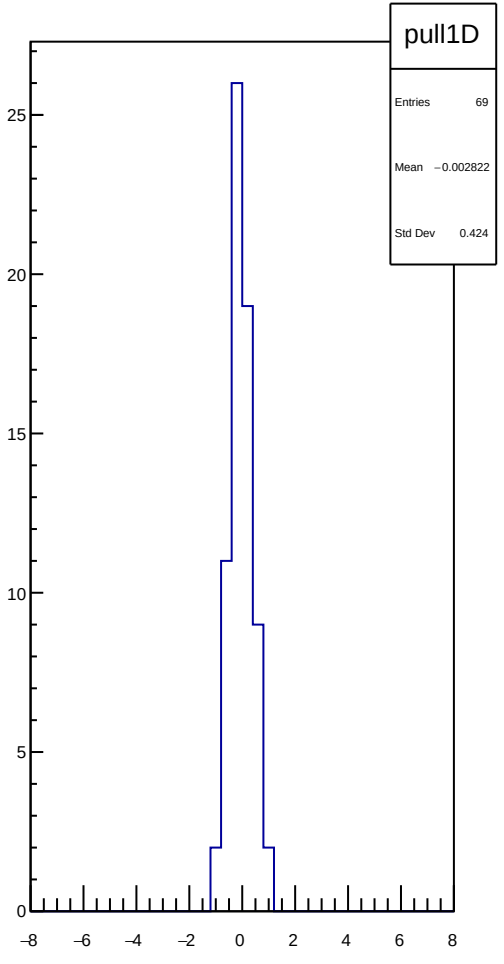

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.317e+04 / 68
p0 219.2 ± 0.1901
700
600
500
400
300
200

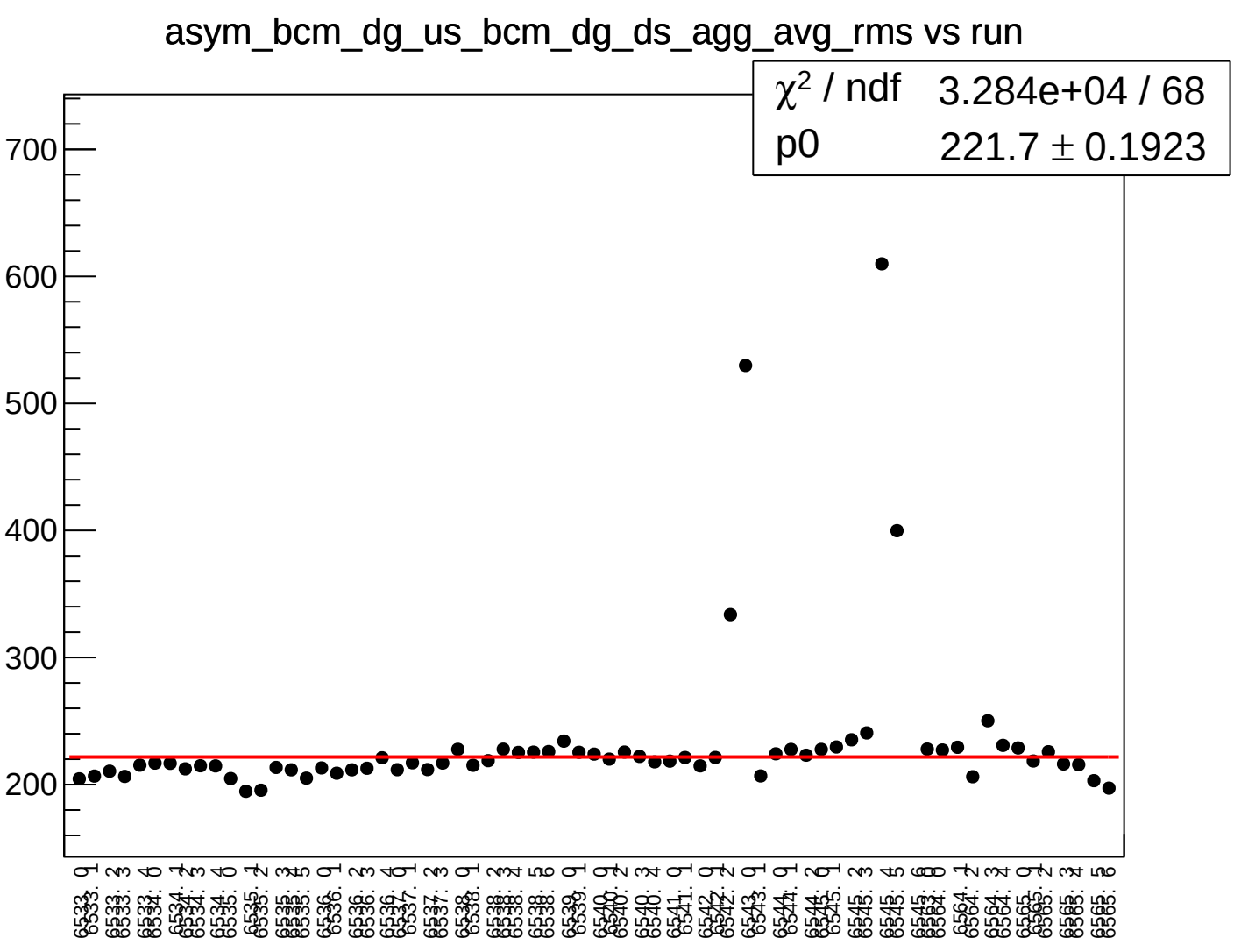

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 74.2 / 68
p0 −42.78 ± 20.8
pull
Entries 69
Mean −569.6
Std Dev 608.4

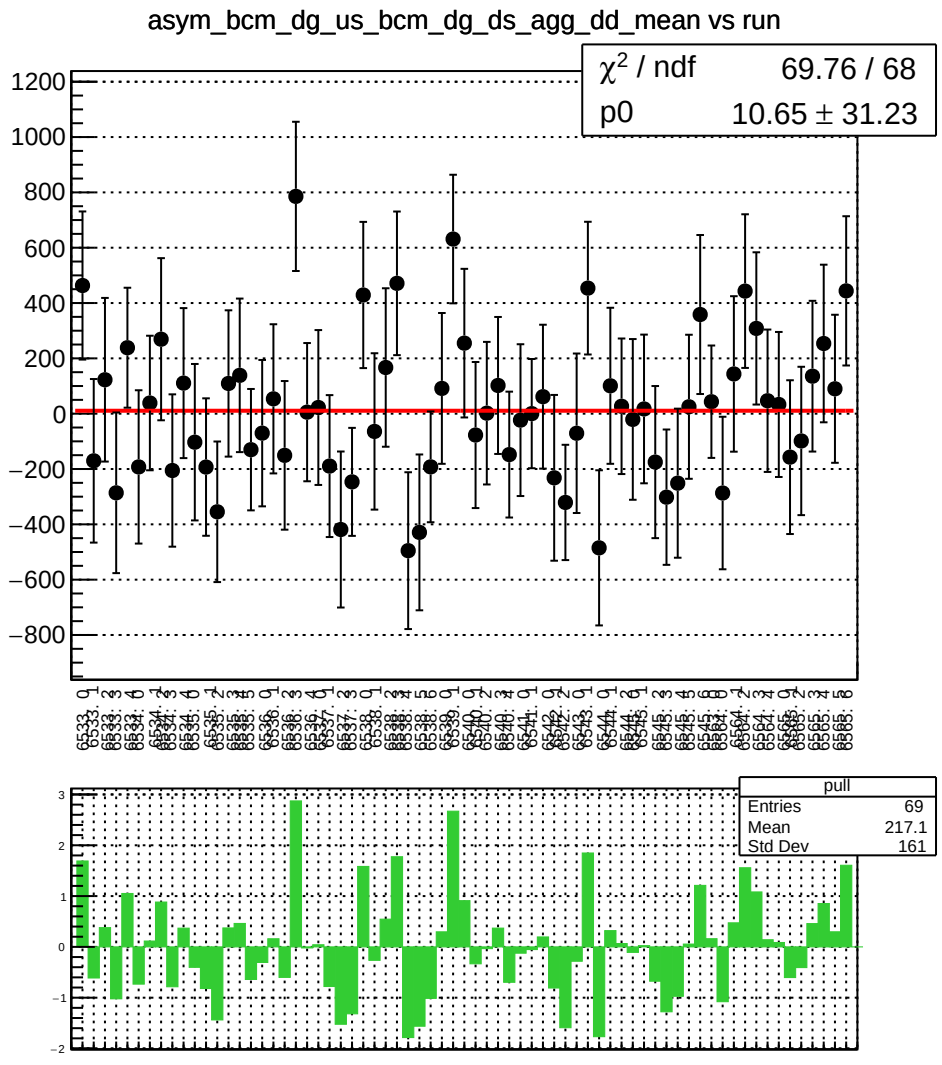

pull1D
Entries 69
Mean 0.005715
Std Dev 1.037

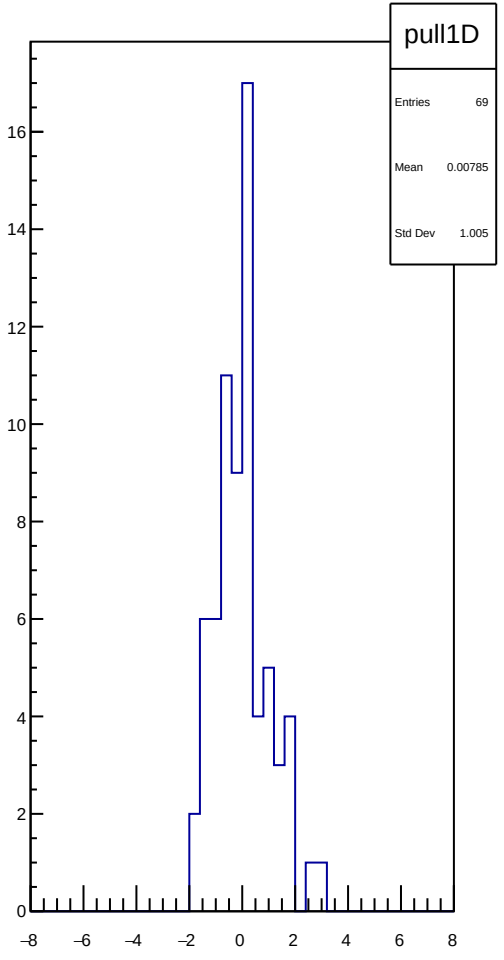

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2287 / 68
p0 17.15 ± 0.01471
19.5
19
18.5
18
17.5
17
16.5
16
15.5

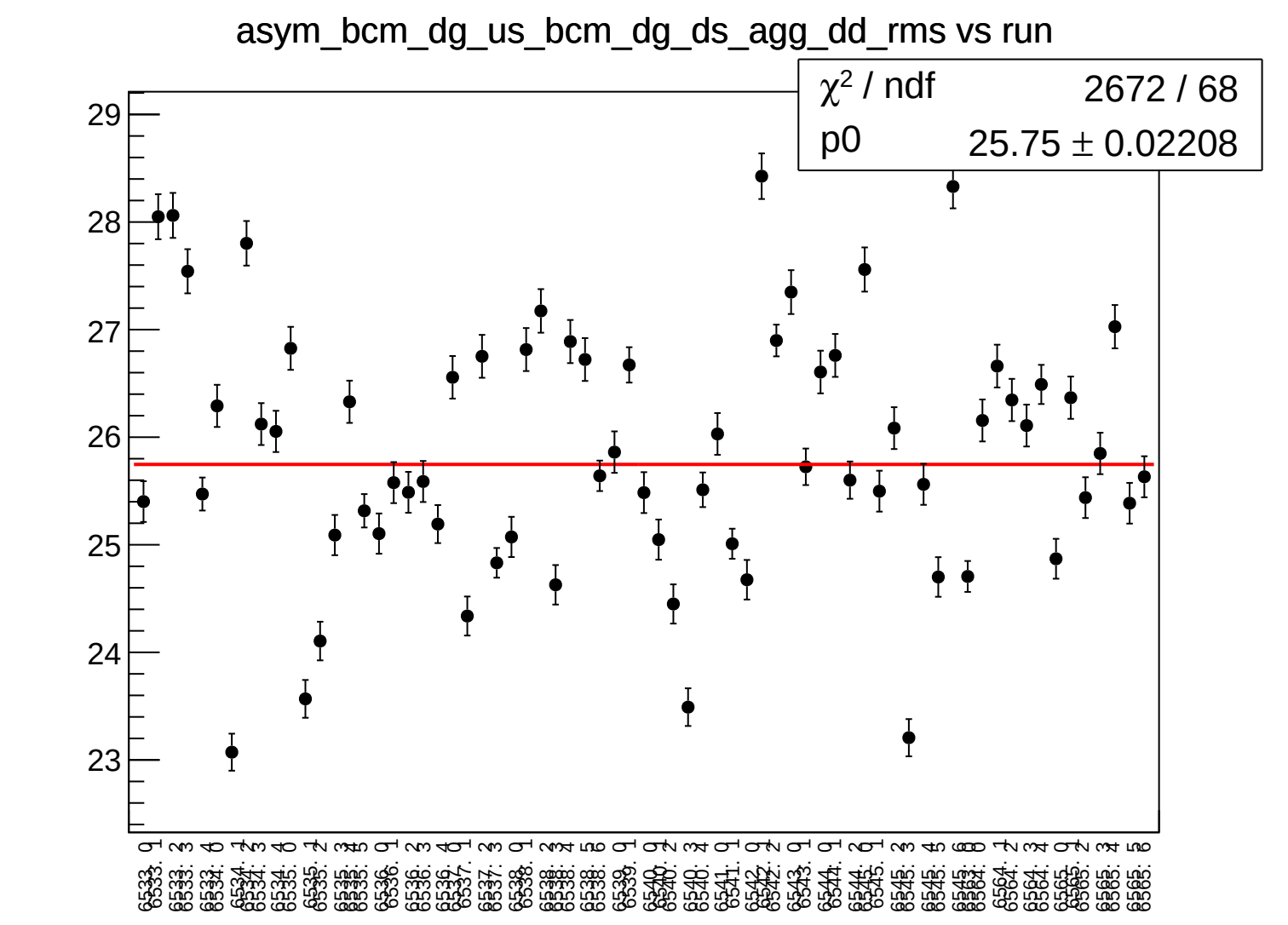

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 12.41 / 68
p0 −444.2 ± 272
pull
Entries 69
Mean 500.4
Std Dev 462.3

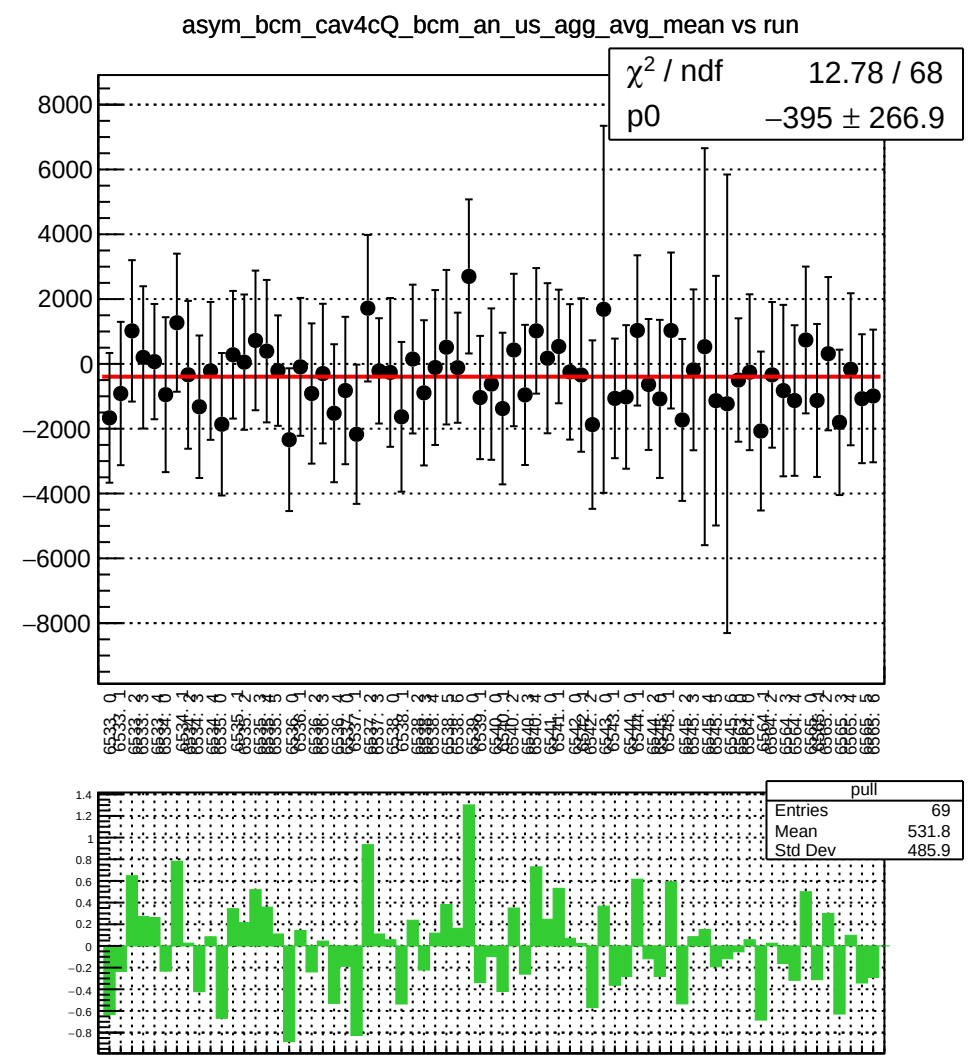

pull1D
Entries 69
Mean −0.002822
Std Dev 0.424

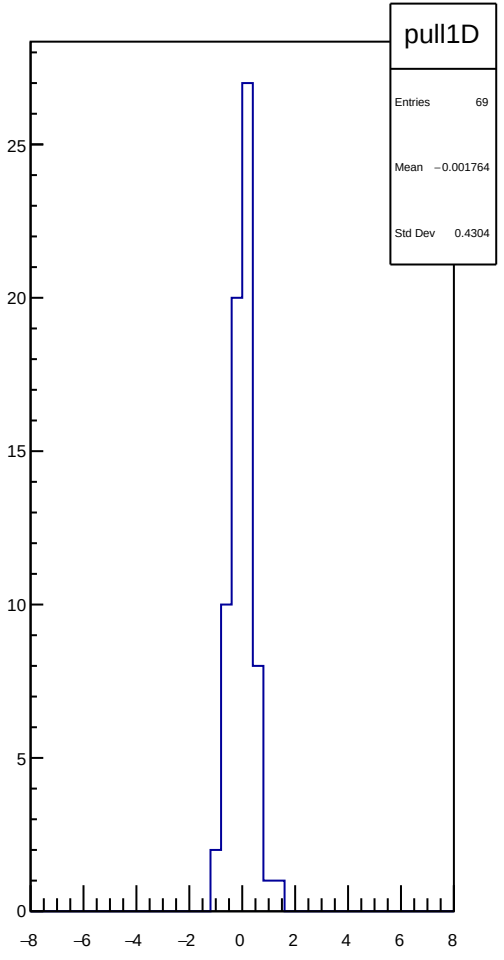

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.284e+04 / 68
p0 221.7 ± 0.1923
700
600
500
400
300
200

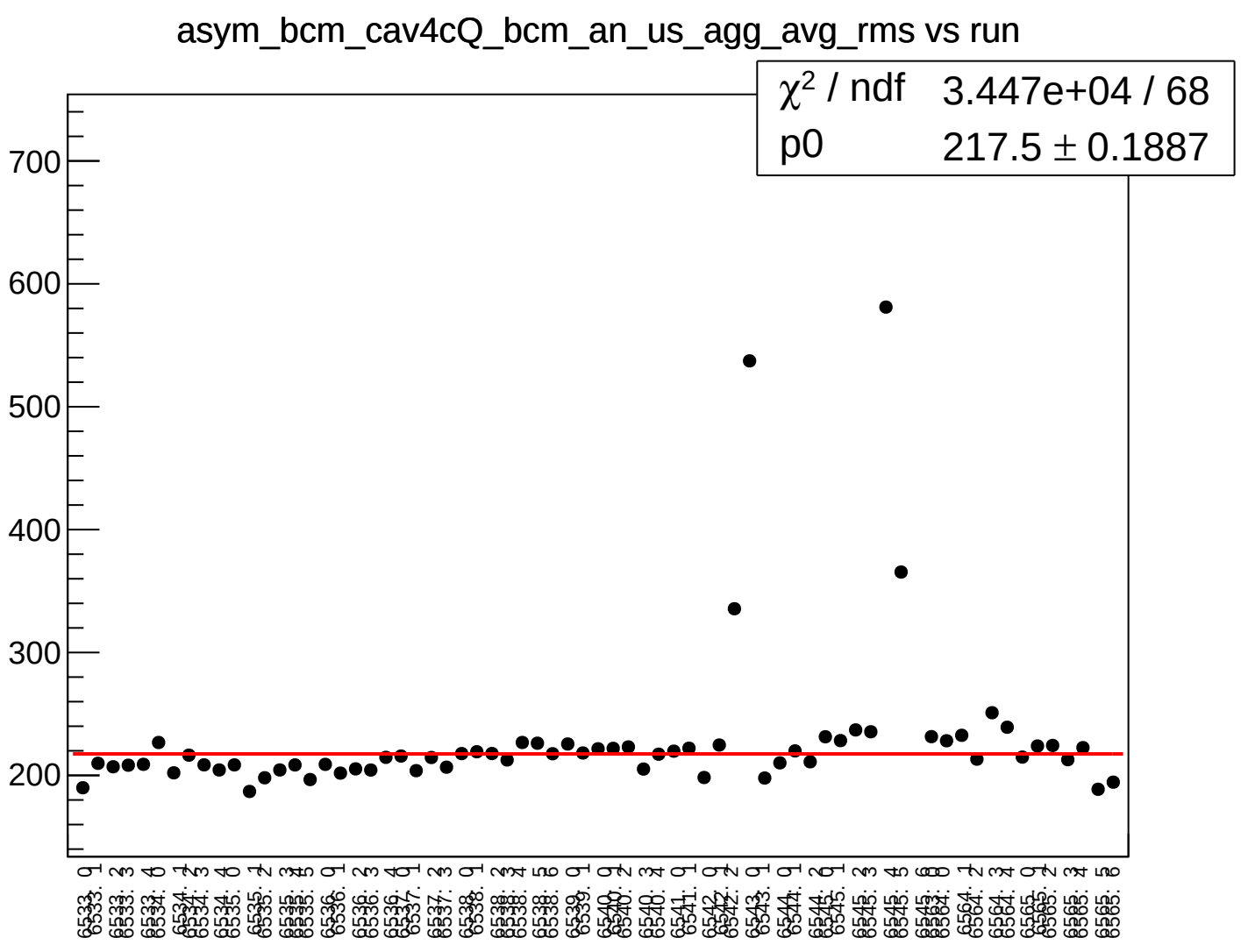

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 69.76 / 68
p0 10.65 ± 31.23
pull
Entries 69
Mean 217.1
Std Dev 161

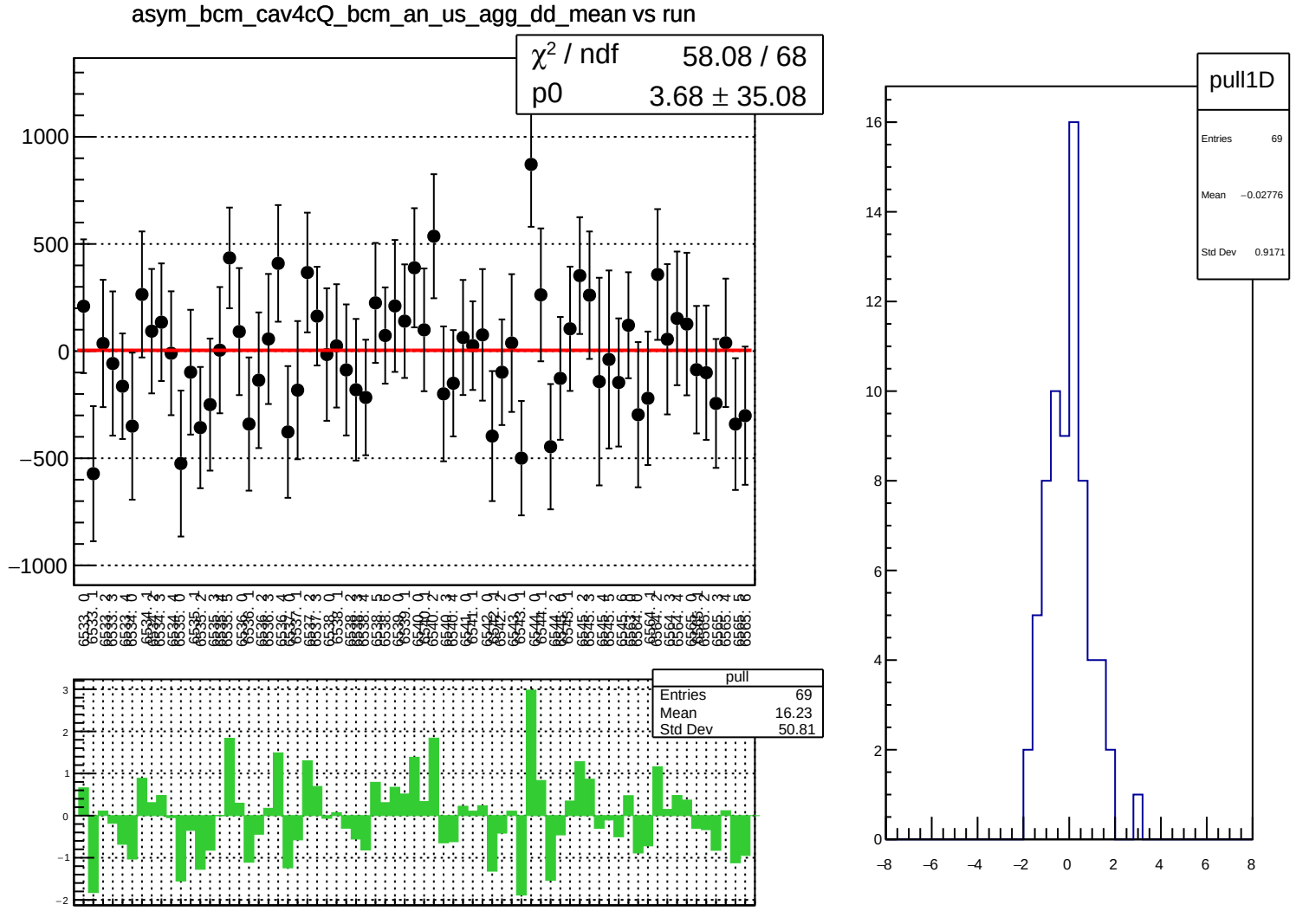

pull1D
Entries 69
Mean 0.00785
Std Dev 1.005

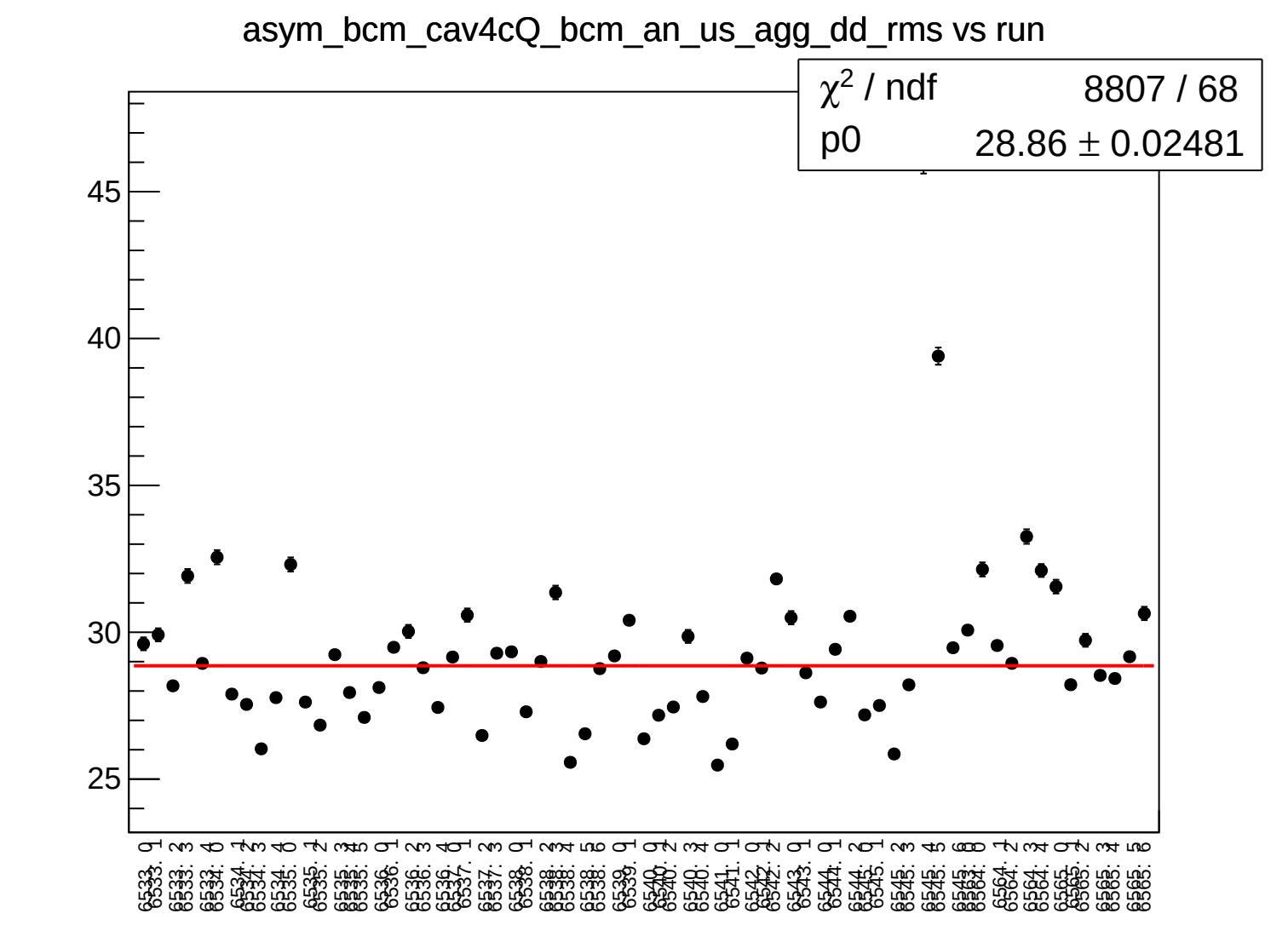

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2672 / 68
p0 25.75 ± 0.02208
29
28
27
26
25
24
23

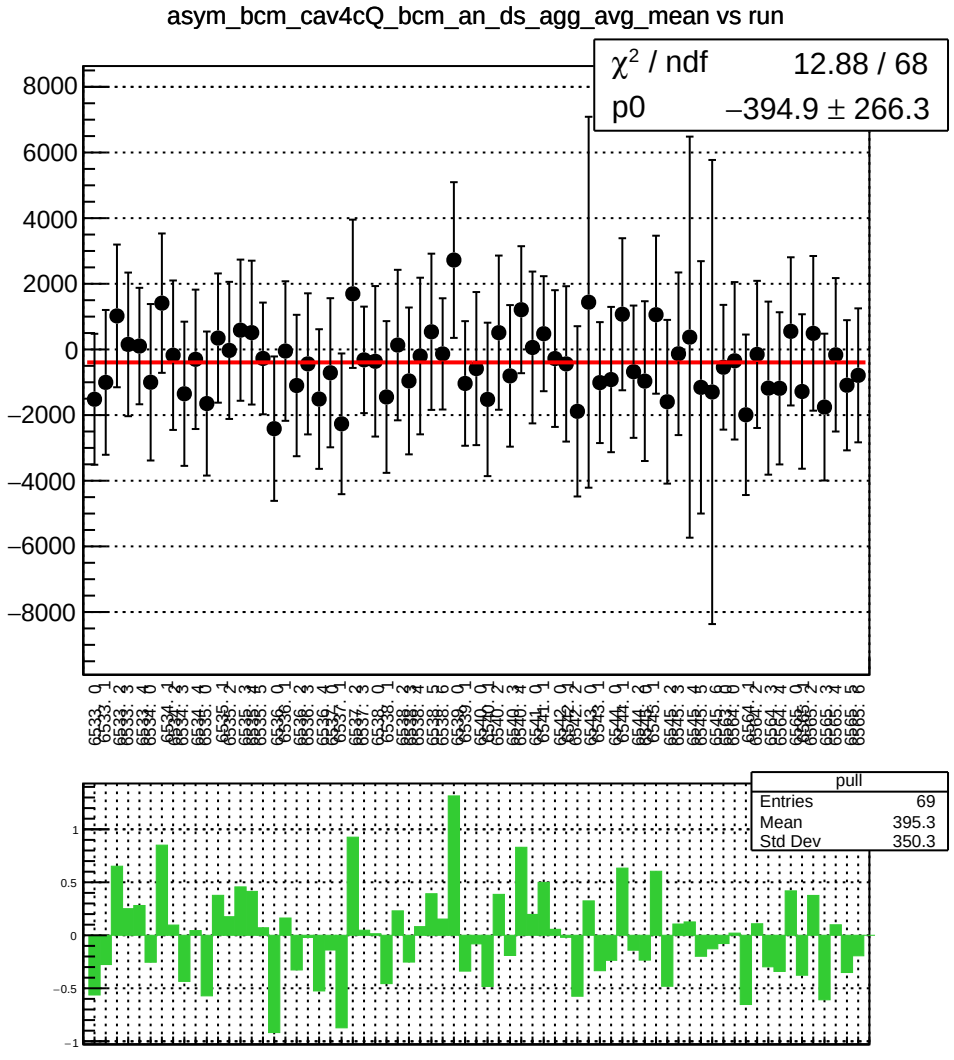

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.78 / 68
p0 −395 ± 266.9
pull
Entries 69
Mean 531.8
Std Dev 485.9

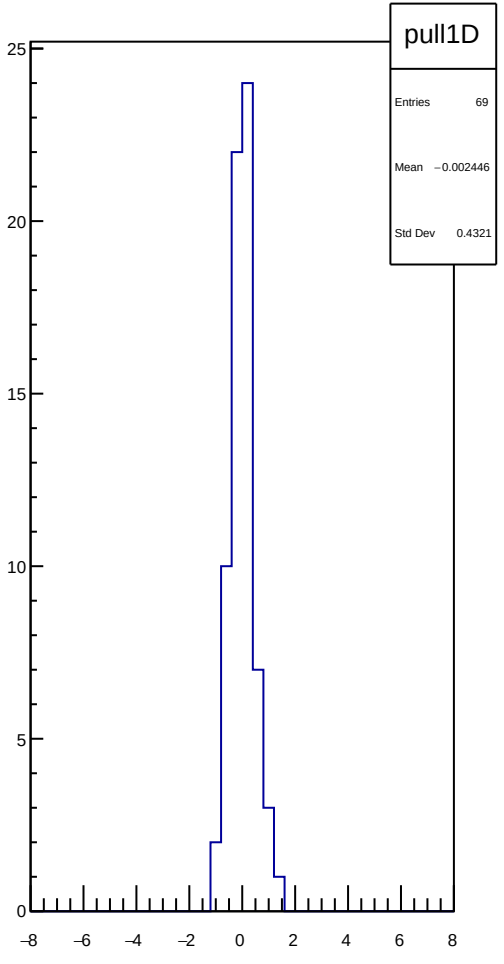

pull1D
Entries 69
Mean −0.001764
Std Dev 0.4304

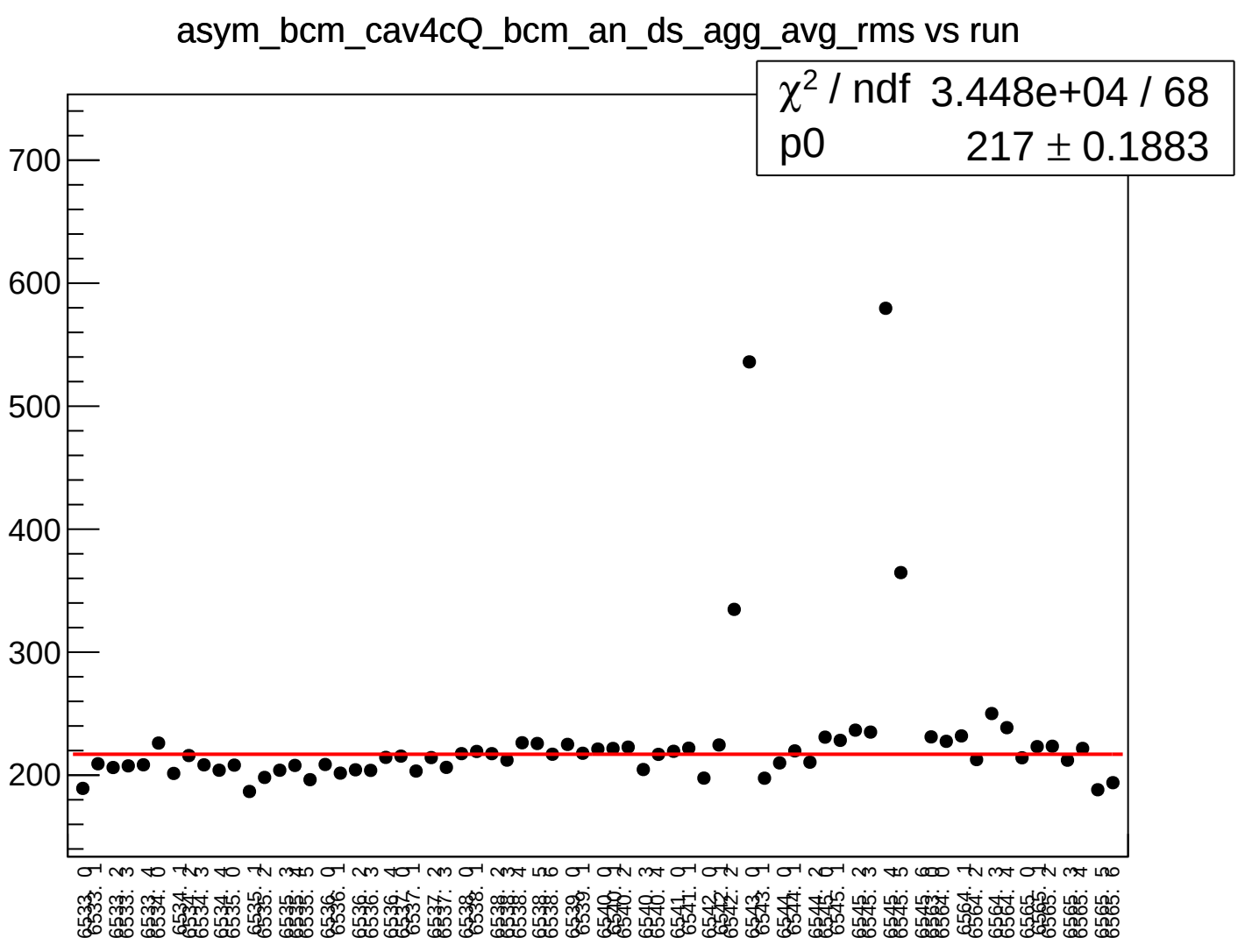

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.447e+04 / 68
p0 217.5 ± 0.1887
700
600
500
400
300
200

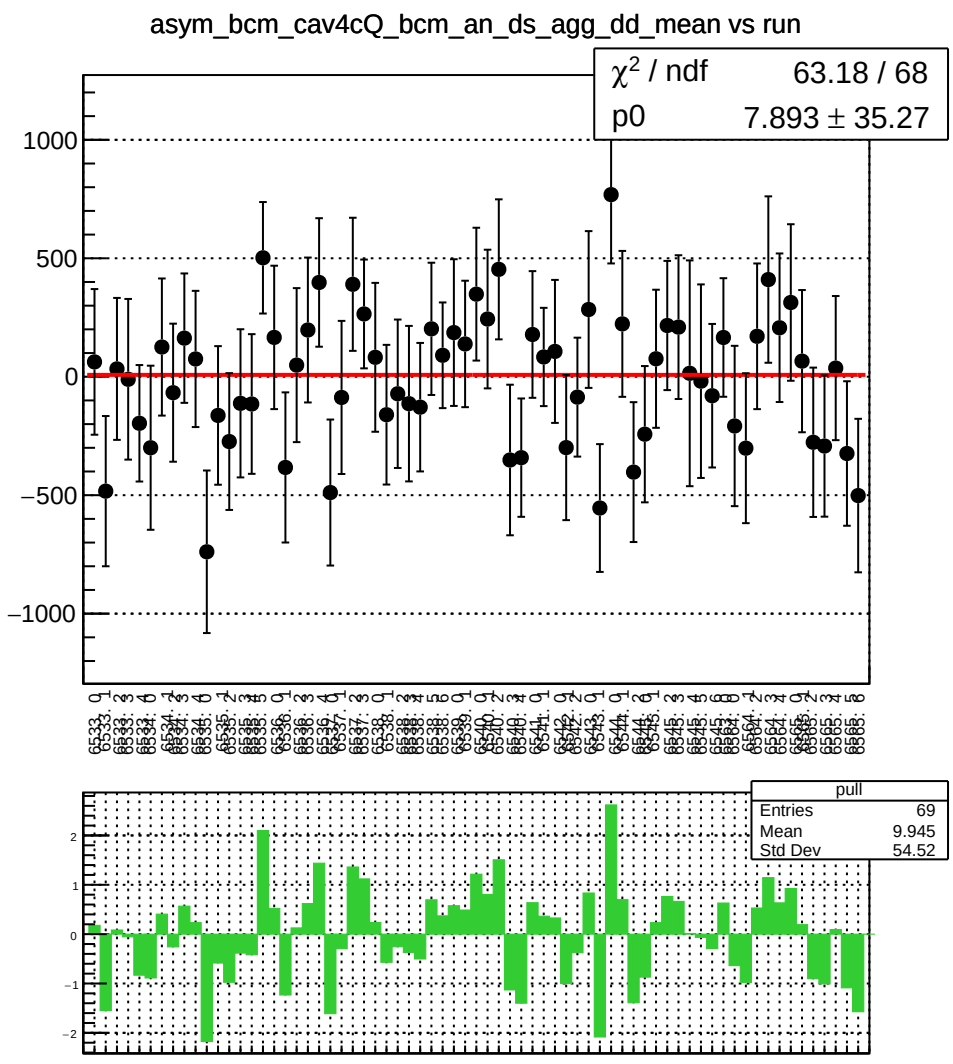

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 58.08 / 68
p0 3.68 ± 35.08
1000
500
0
−500
−1000
pull
Entries 69
Mean 16.23
Std Dev 50.81
pull1D
Entries 69
Mean −0.02776
Std Dev 0.9171

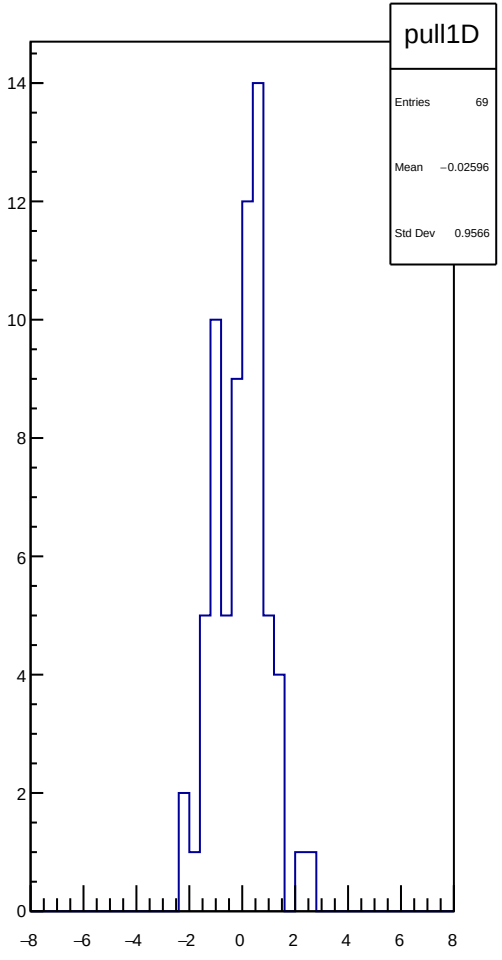

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 8807 / 68
p0 28.86 ± 0.02481
45
40
35
30
25

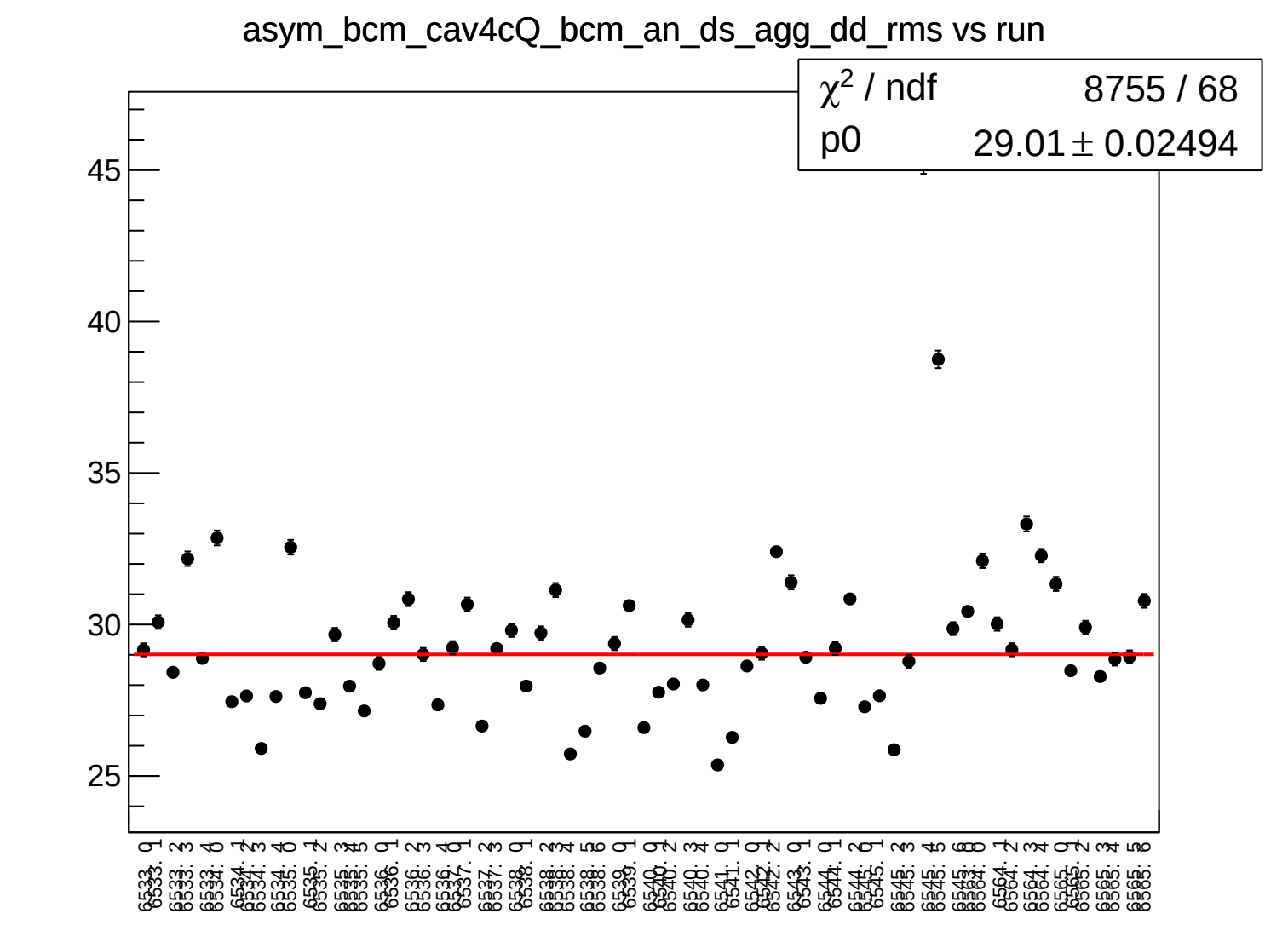

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.88 / 68
p0 −394.9 ± 266.3
pull
Entries 69
Mean 395.3
Std Dev 350.3

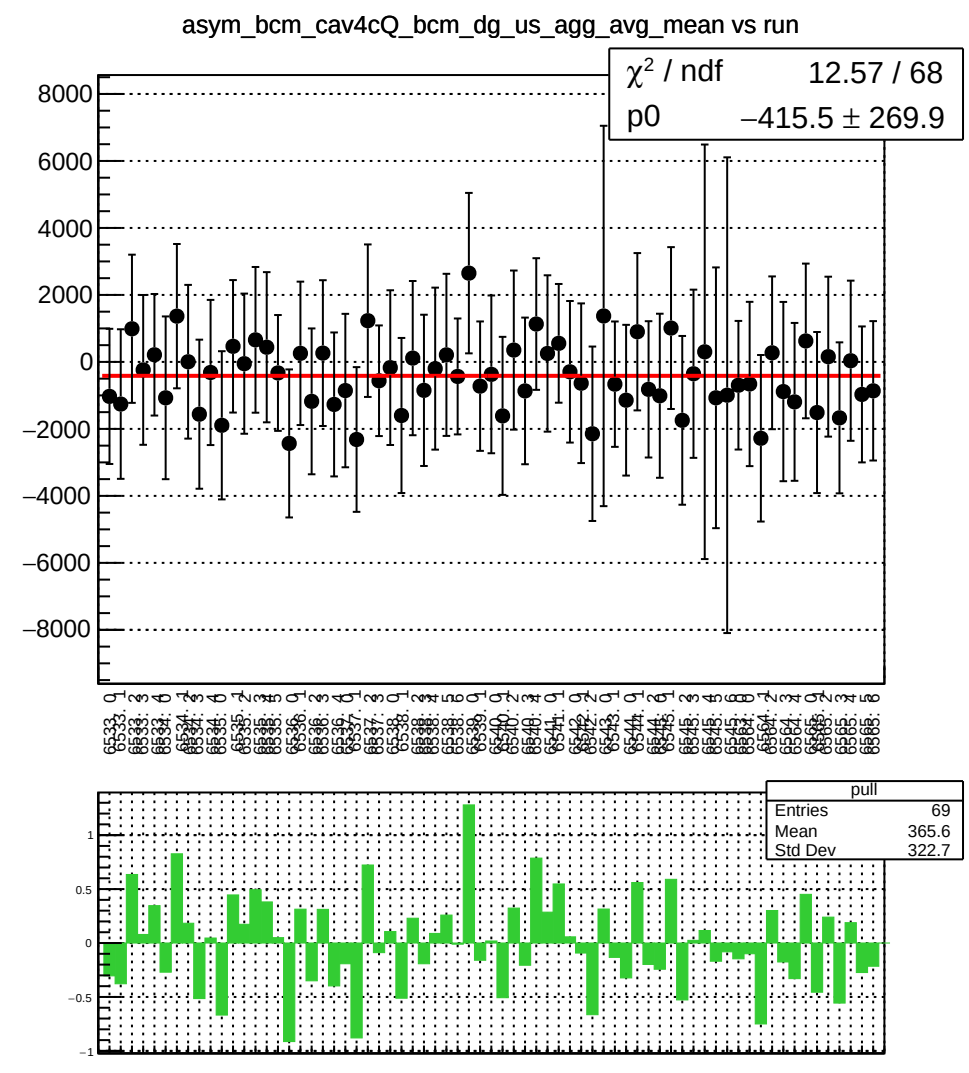

pull1D
Entries 69
Mean −0.002446
Std Dev 0.4321

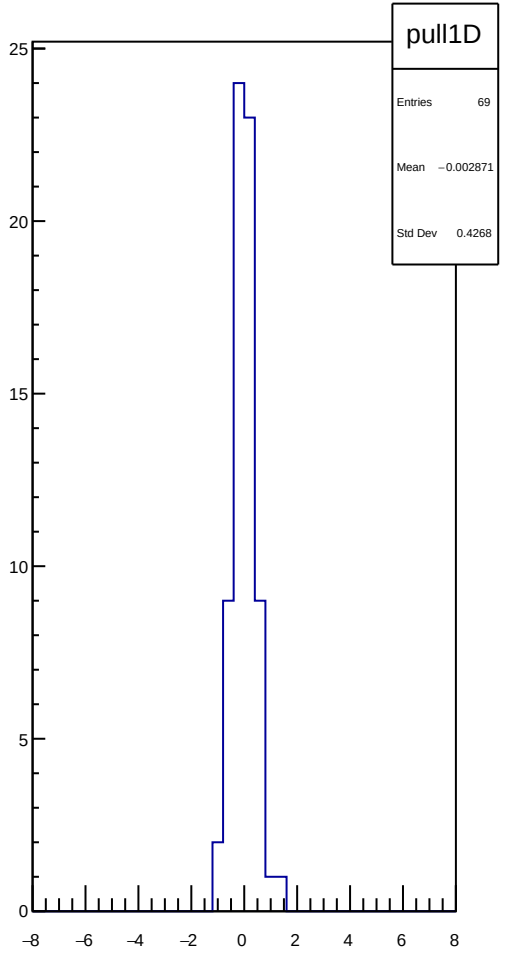

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.448e+04 / 68
p0 217 ± 0.1883
700
600
500
400
300
200

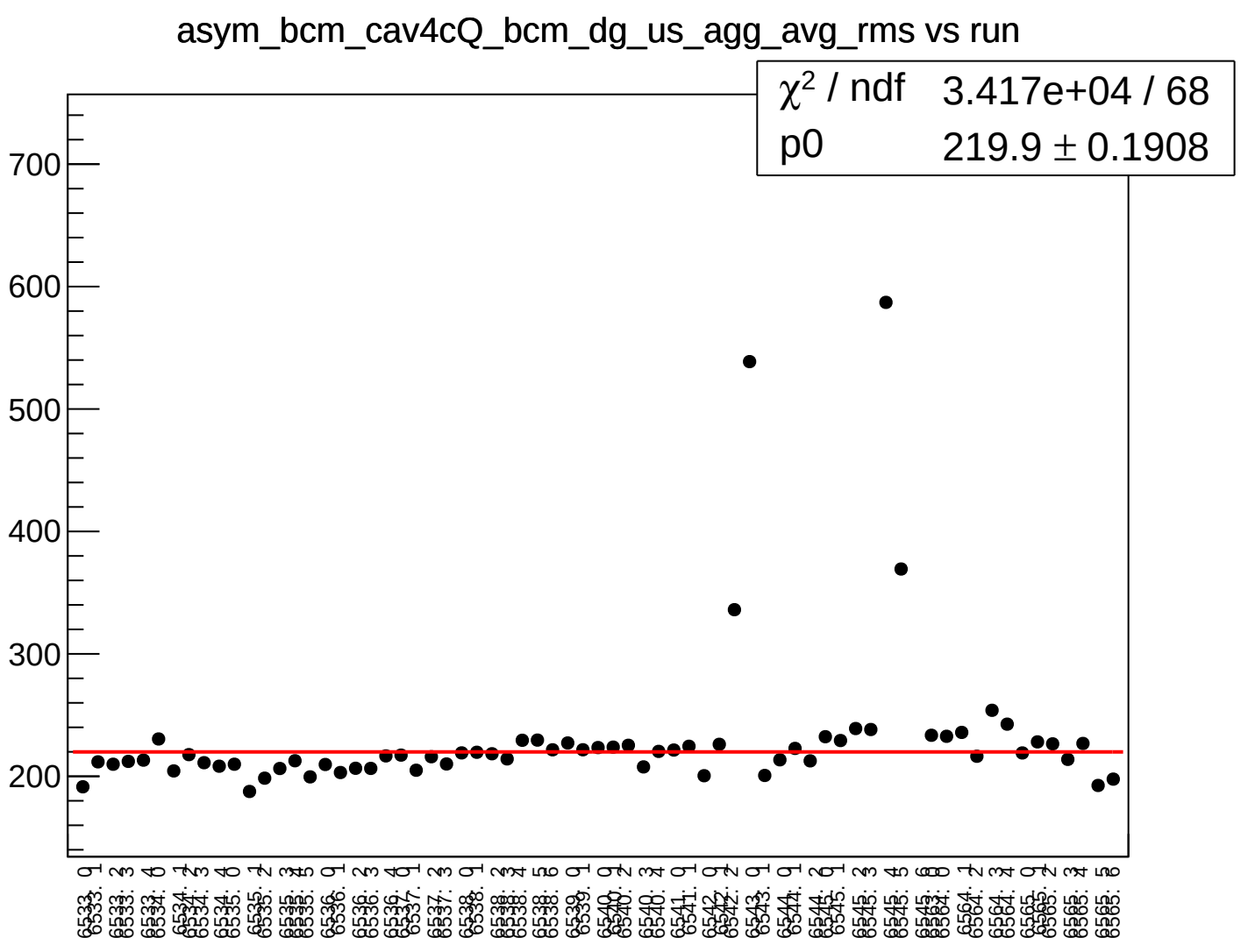

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 63.18 / 68
p0 7.893 ± 35.27
1000
500
0
−500
−1000
pull
Entries 69
Mean 9.945
Std Dev 54.52
2
1
0
−1
−2

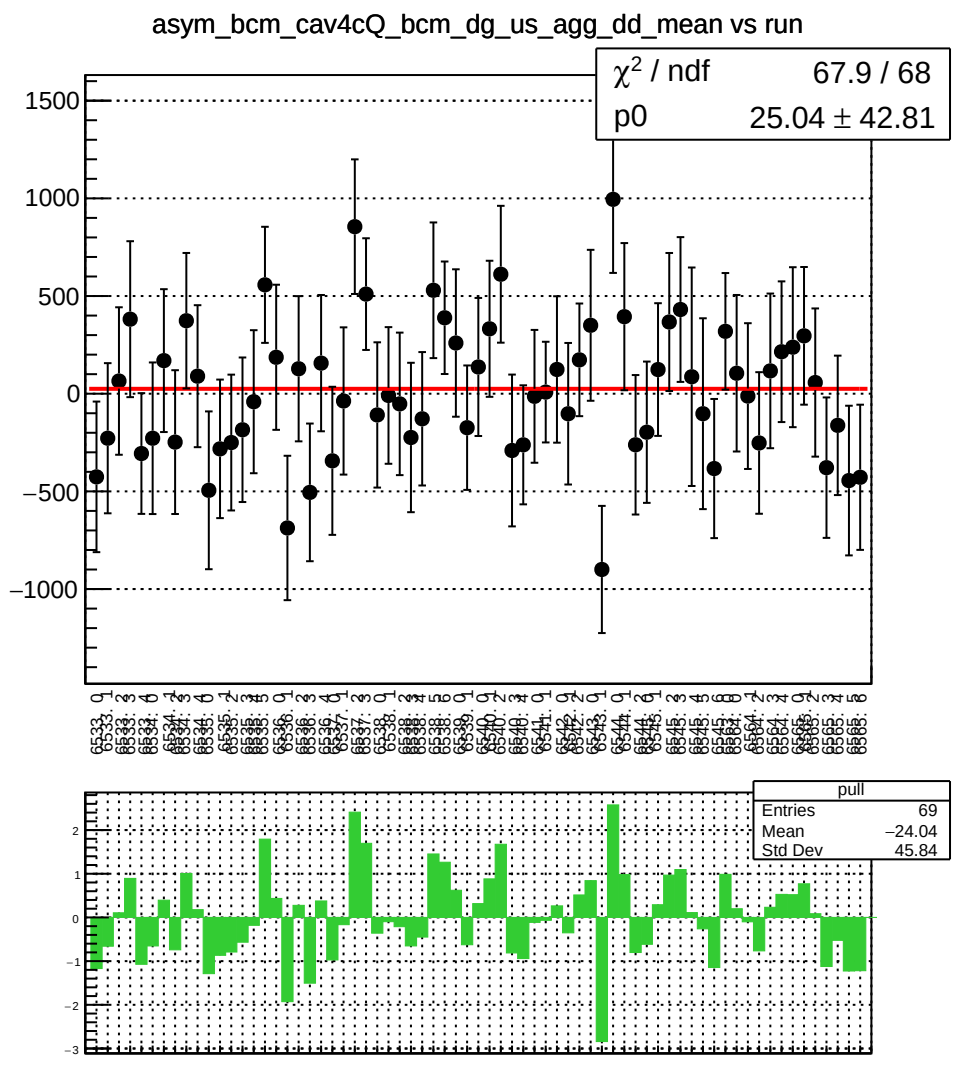

pull1D
Entries 69
Mean −0.02596
Std Dev 0.9566
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

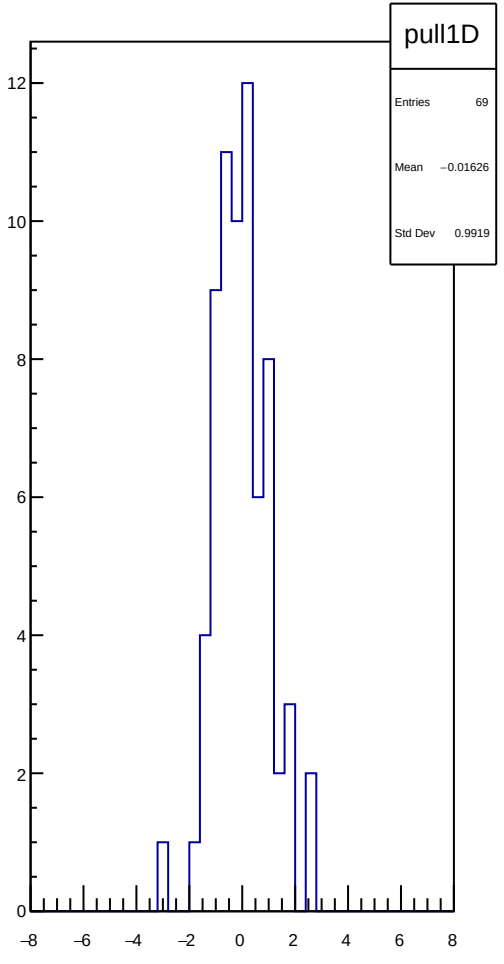

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 8755 / 68
p0 29.01 ± 0.02494
45
40
35
30
25

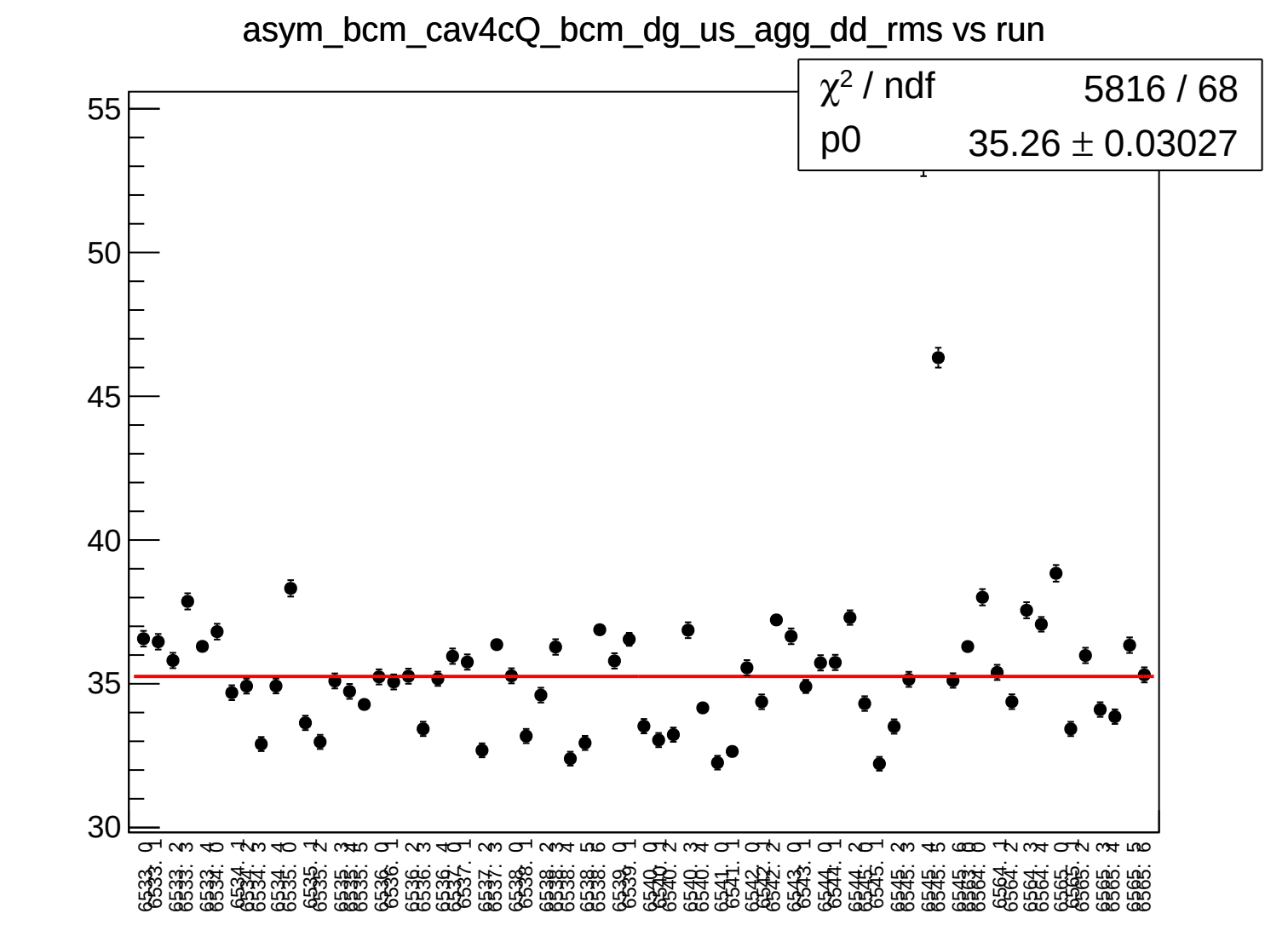

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 12.57 / 68
p0 −415.5 ± 269.9
pull
Entries 69
Mean 365.6
Std Dev 322.7

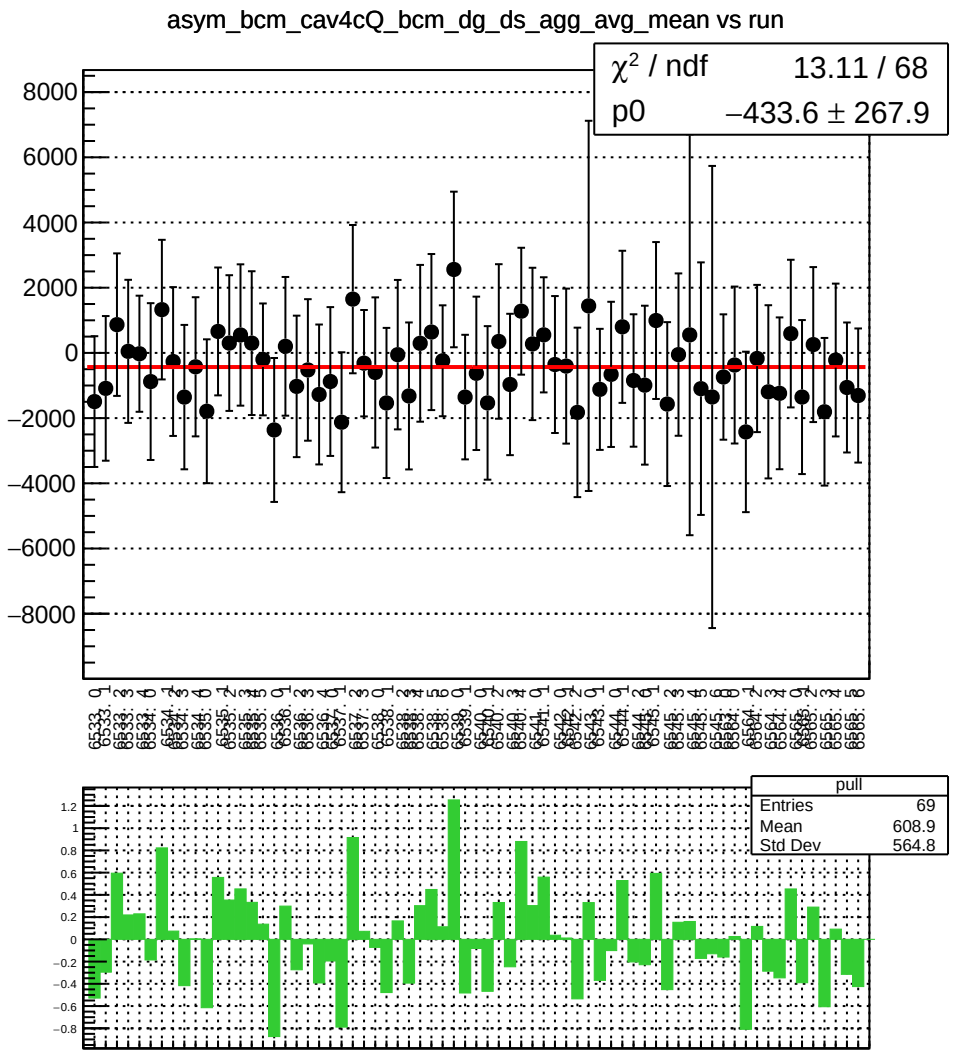

pull1D
Entries 69
Mean −0.002871
Std Dev 0.4268

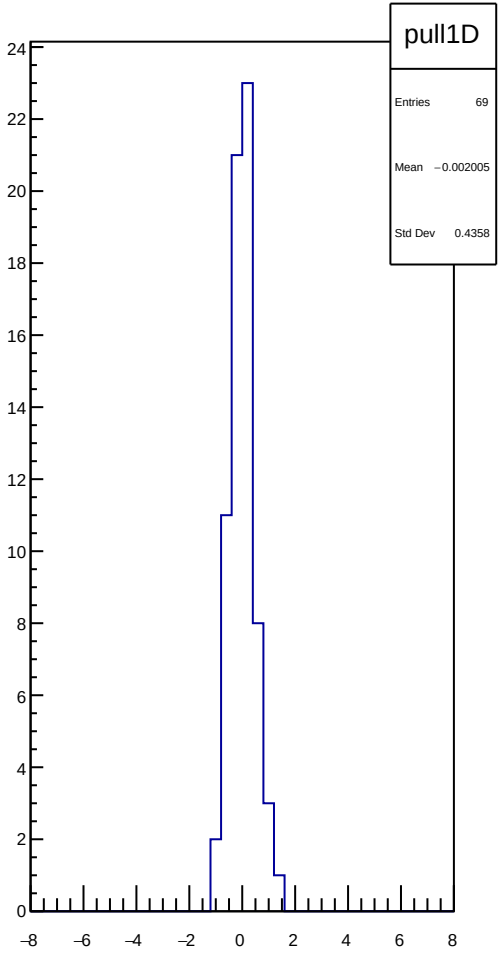

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3.417e+04 / 68
p0 219.9 ± 0.1908
700
600
500
400
300
200

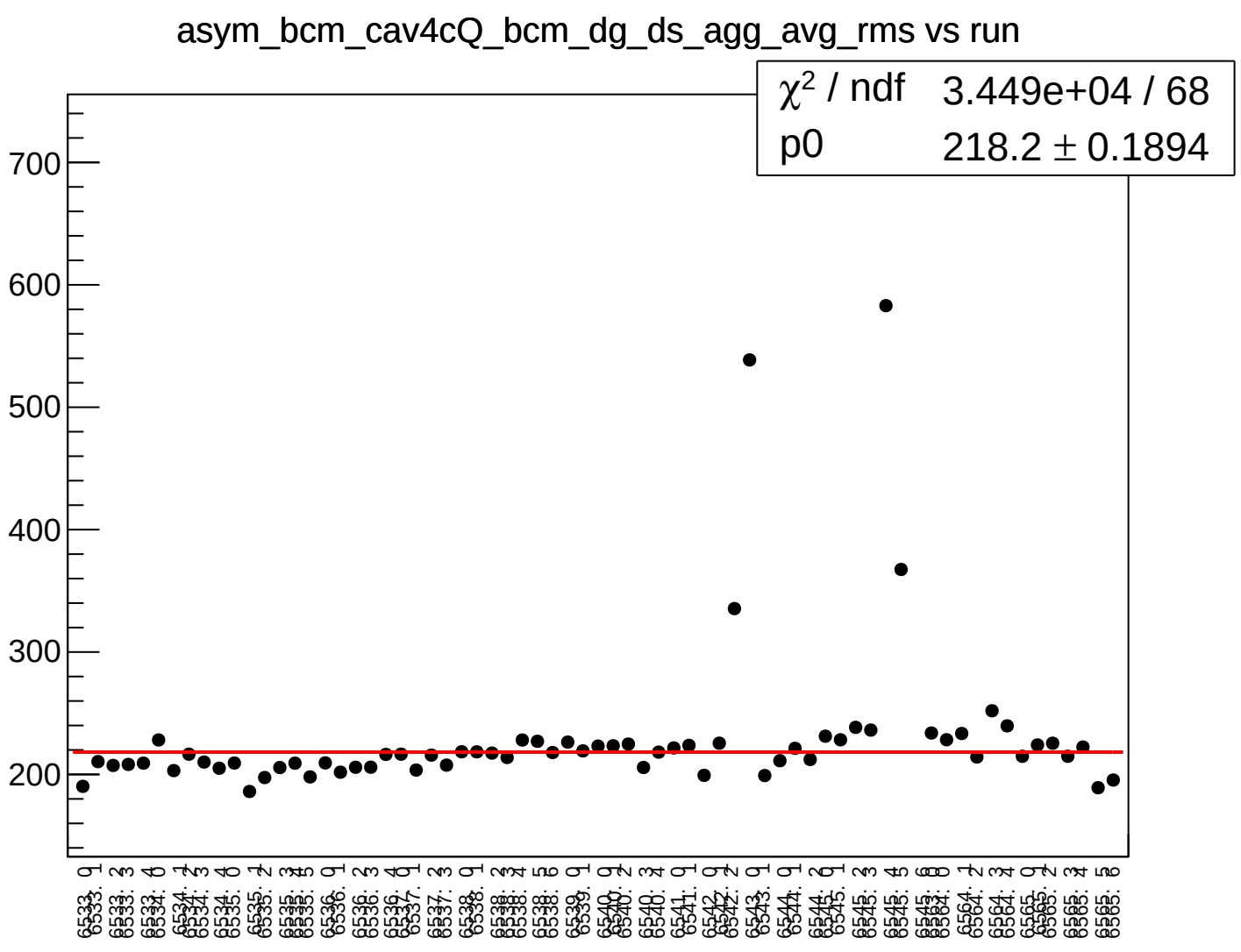

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.9 / 68
p0 25.04 ± 42.81
pull
Entries 69
Mean −24.04
Std Dev 45.84

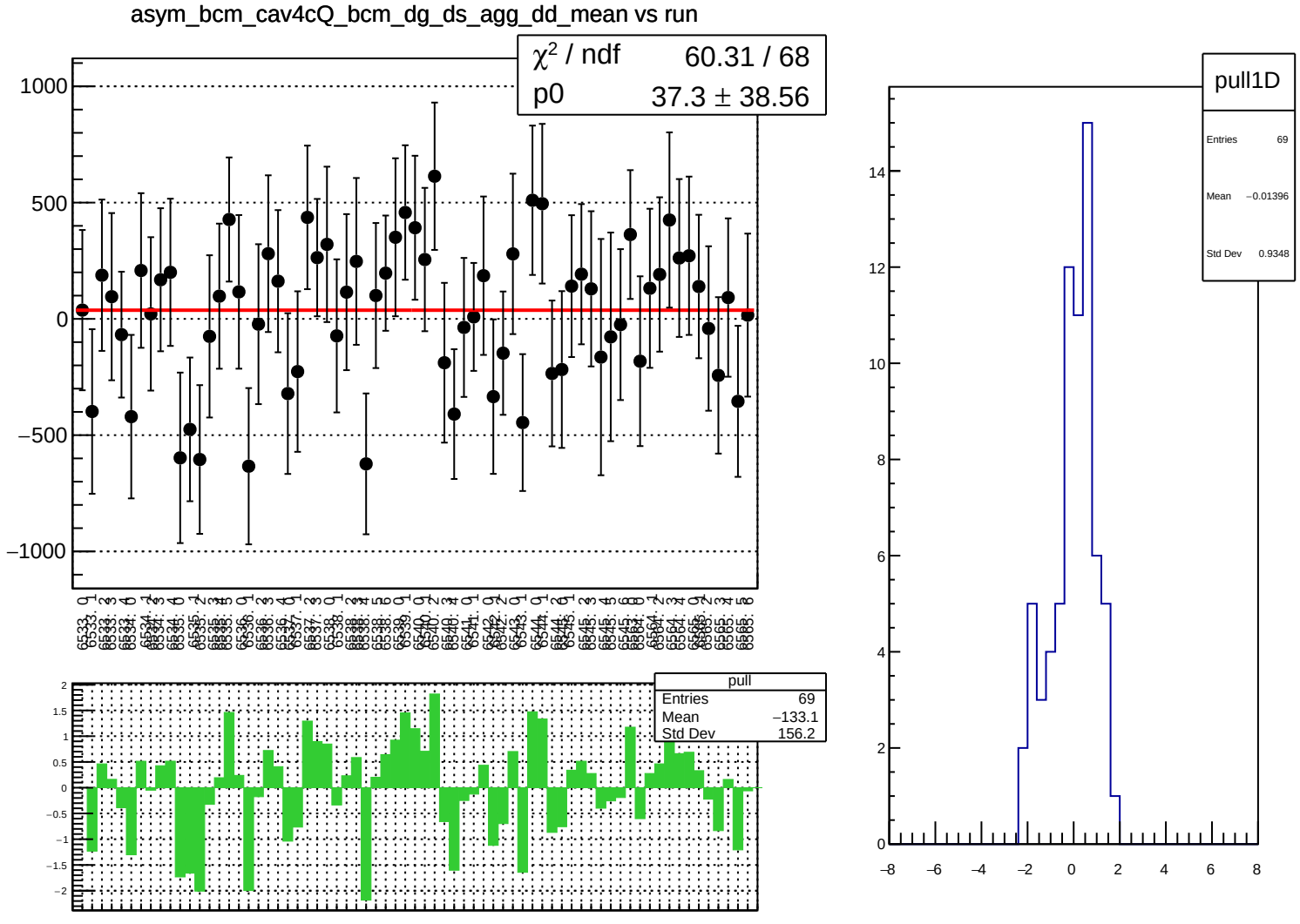

pull1D
Entries 69
Mean −0.01626
Std Dev 0.9919

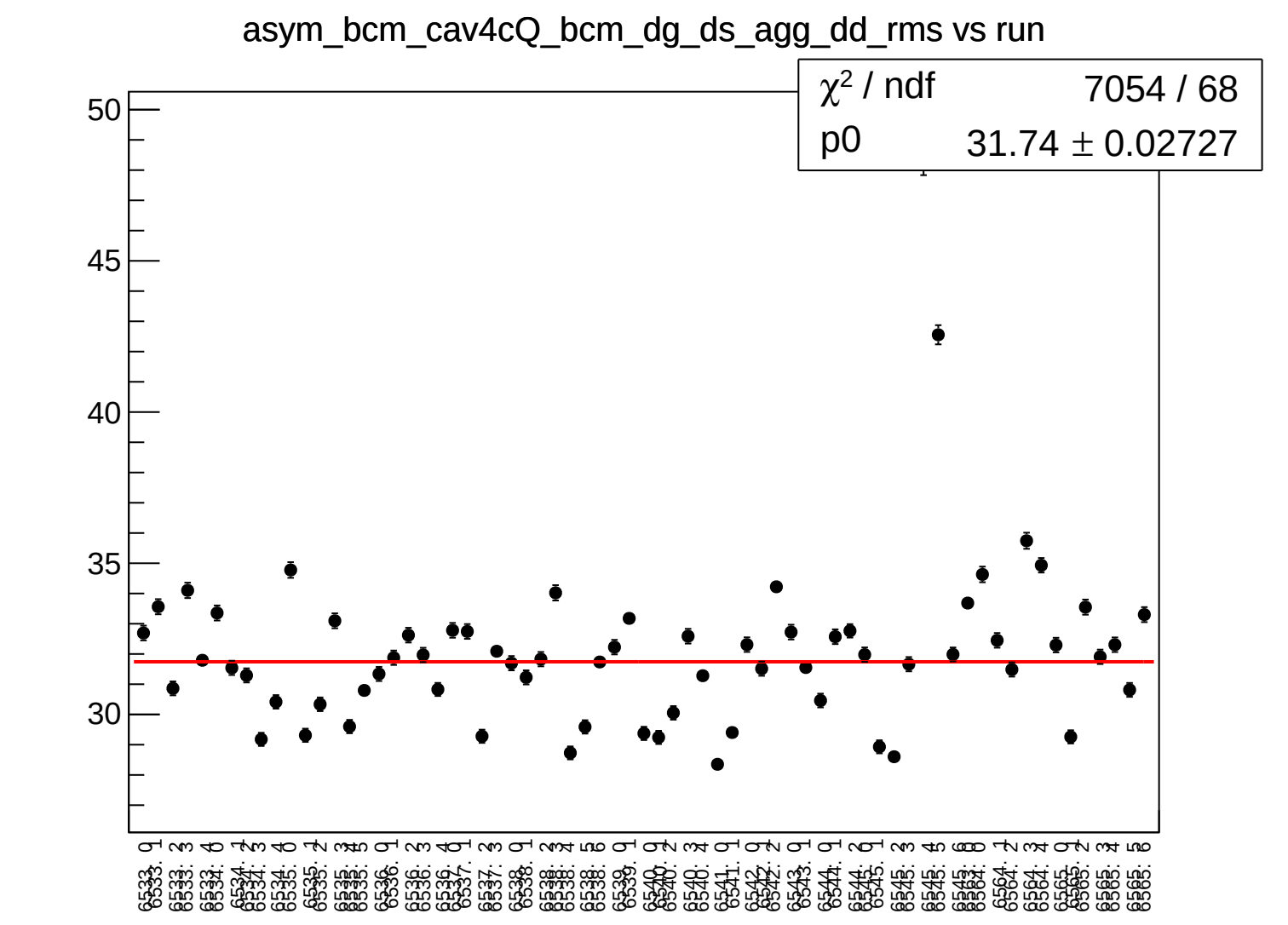

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 5816 / 68
p0 35.26 ± 0.03027
55
50
45
40
35
30

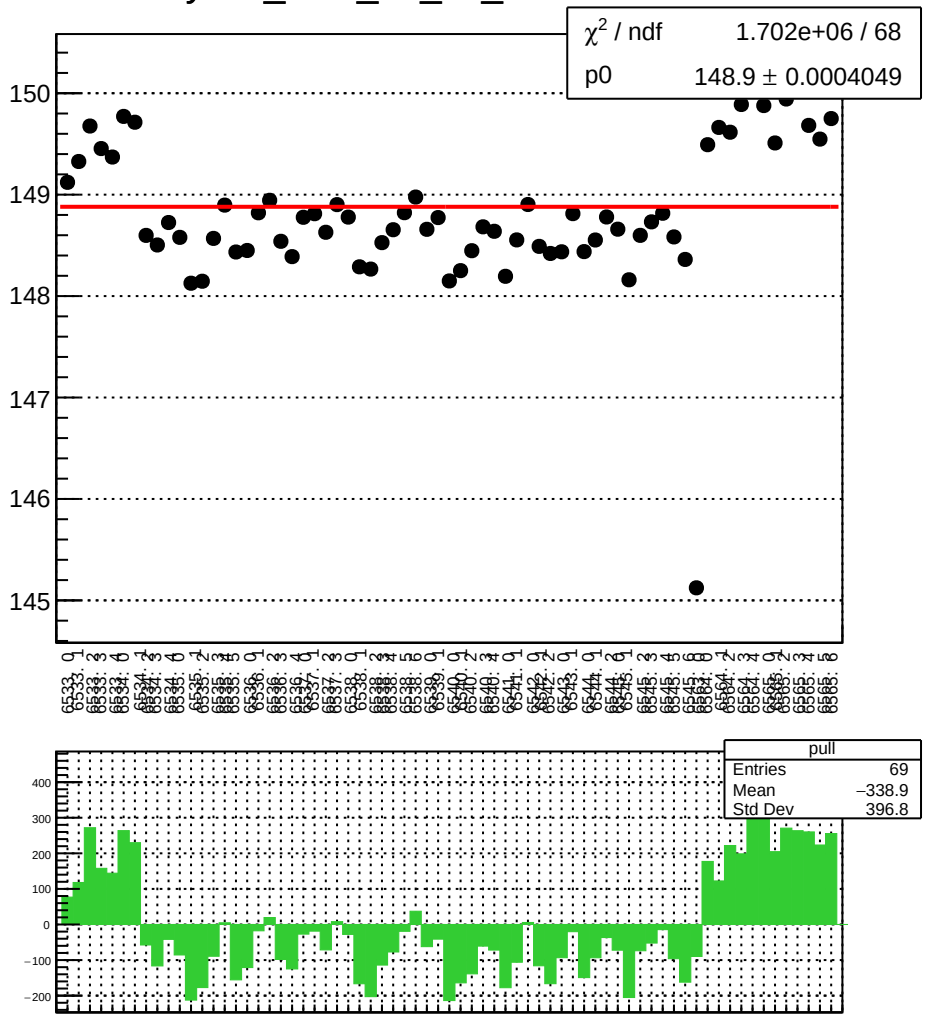

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.11 / 68
p0 −433.6 ± 267.9
pull
Entries 69
Mean 608.9
Std Dev 564.8

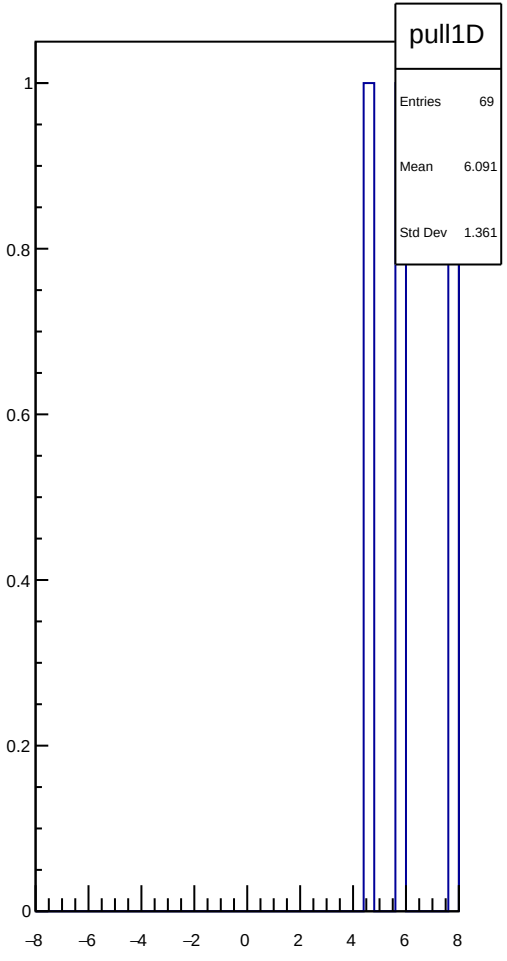

pull1D
Entries 69
Mean −0.002005
Std Dev 0.4358

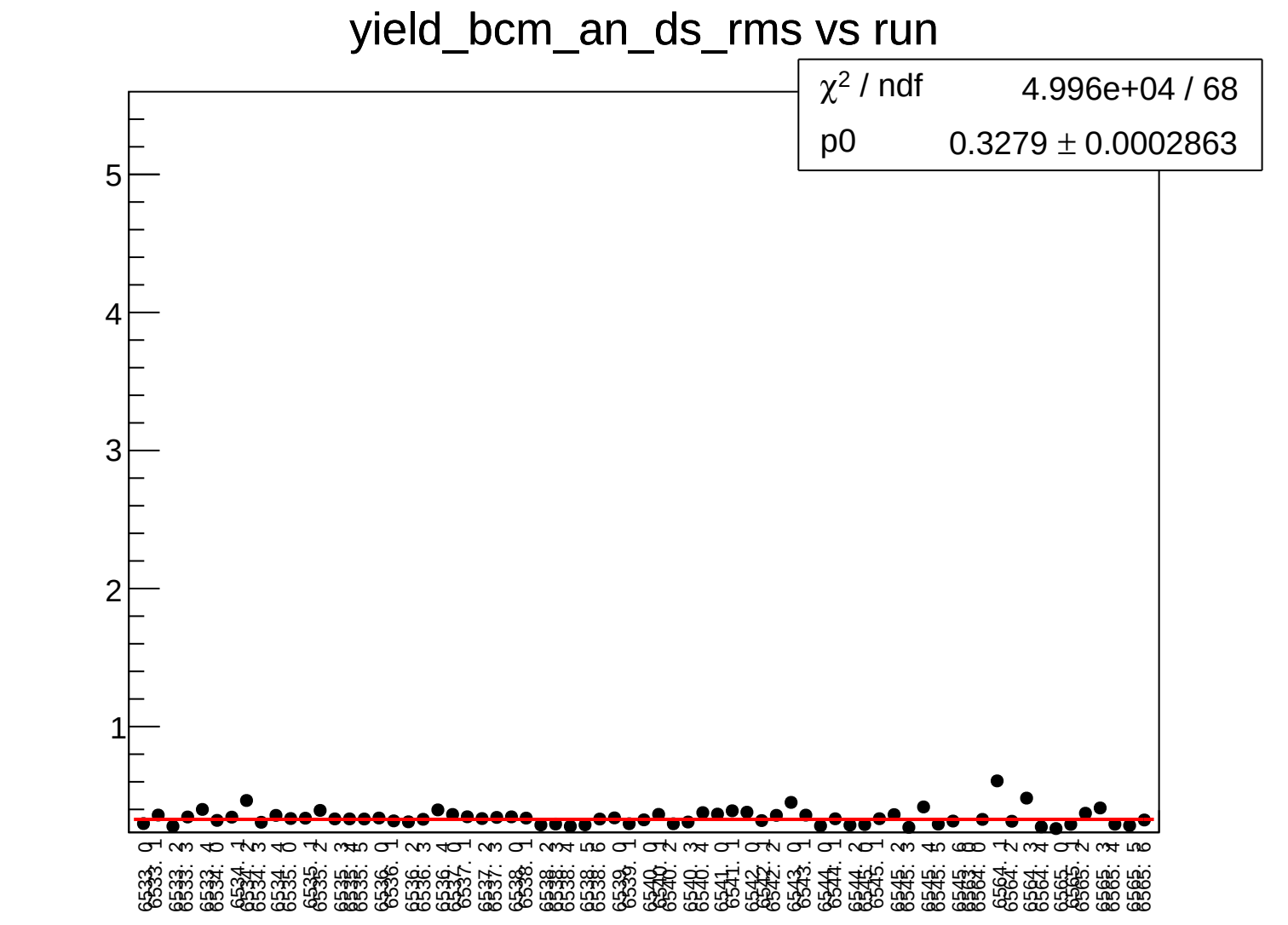

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.449e+04 / 68
p0 218.2 ± 0.1894
700
600
500
400
300
200

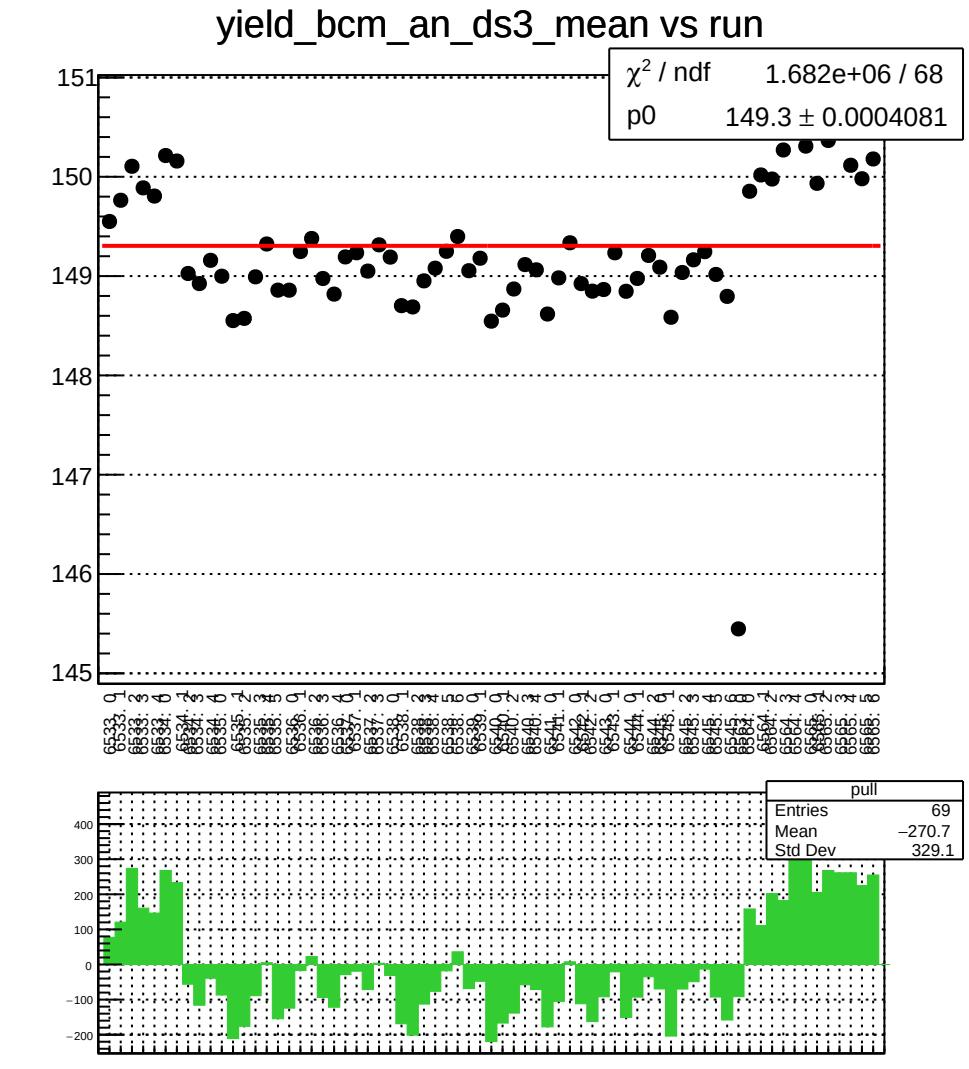

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 60.31 / 68
p0 37.3 ± 38.56
1000
500
0
−500
−1000
pull
Entries 69
Mean −133.1
Std Dev 156.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 69
Mean −0.01396
Std Dev 0.9348
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

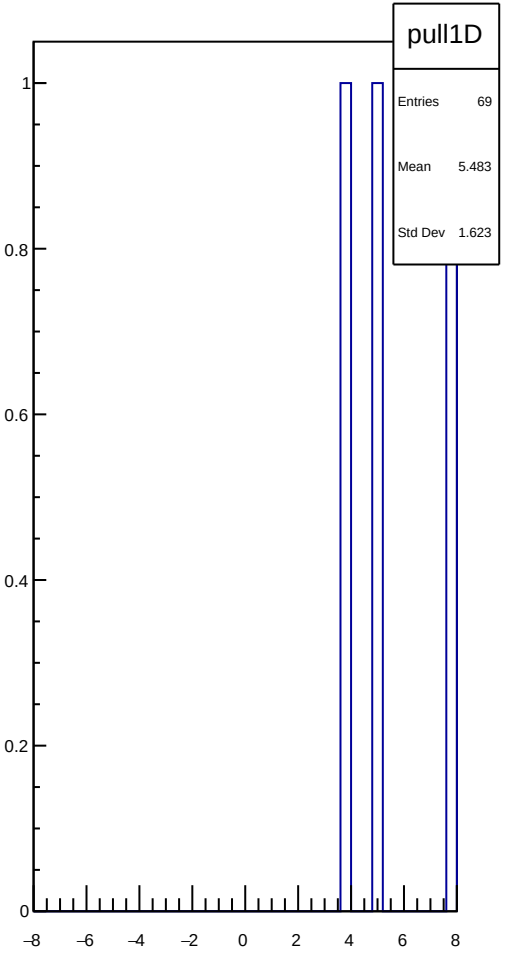

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 7054 / 68
p0 31.74 ± 0.02727
50
45
40
35
30

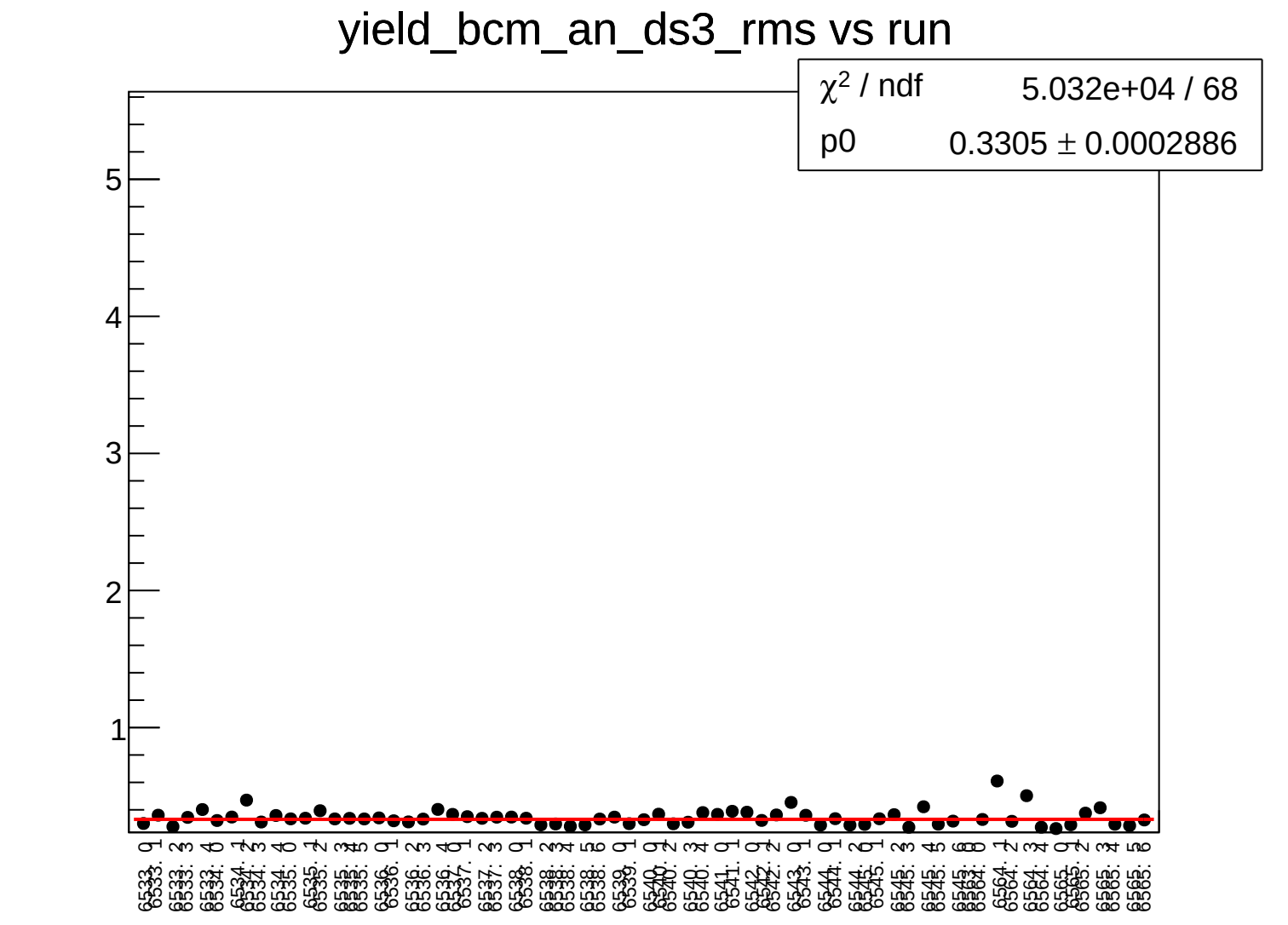

yield_bcm_an_ds_mean vs run
χ² / ndf 1.702e+06 / 68
p0 148.9 ± 0.0004049
150
149
148
147
146
145
pull
Entries 69
Mean −338.9
Std Dev 396.8
400
300
200
100
0
−100
−200

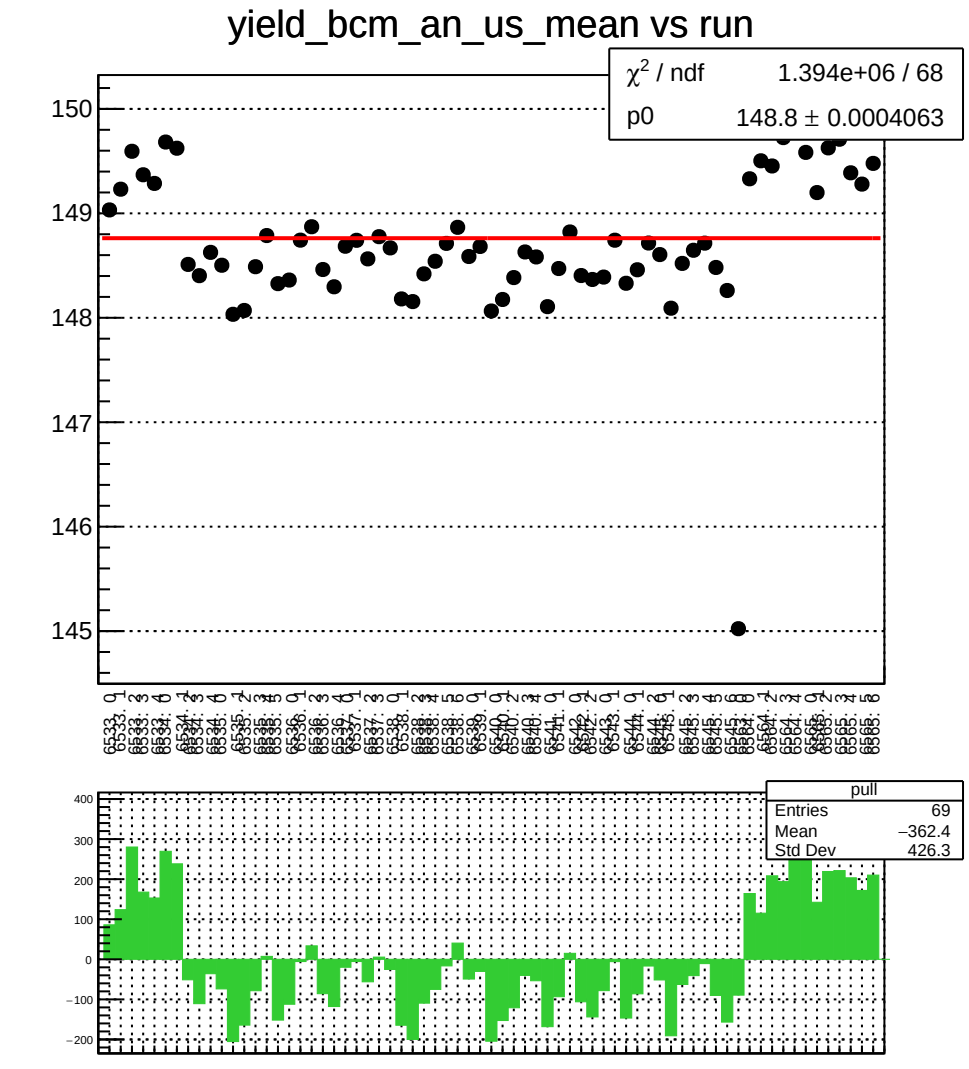

pull1D
Entries 69
Mean 6.091
Std Dev 1.361
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

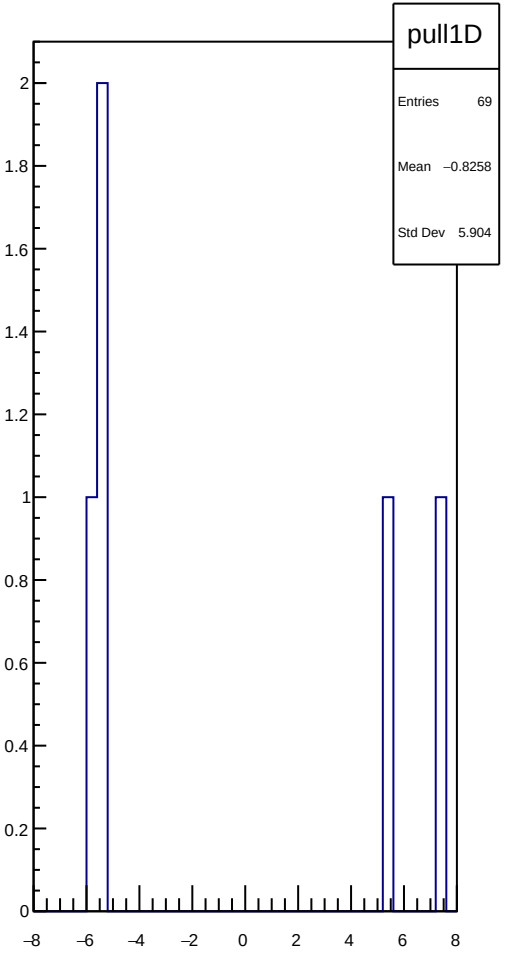

yield_bcm_an_ds_rms vs run
χ² / ndf 4.996e+04 / 68
p0 0.3279 ± 0.0002863
5
4
3
2
1

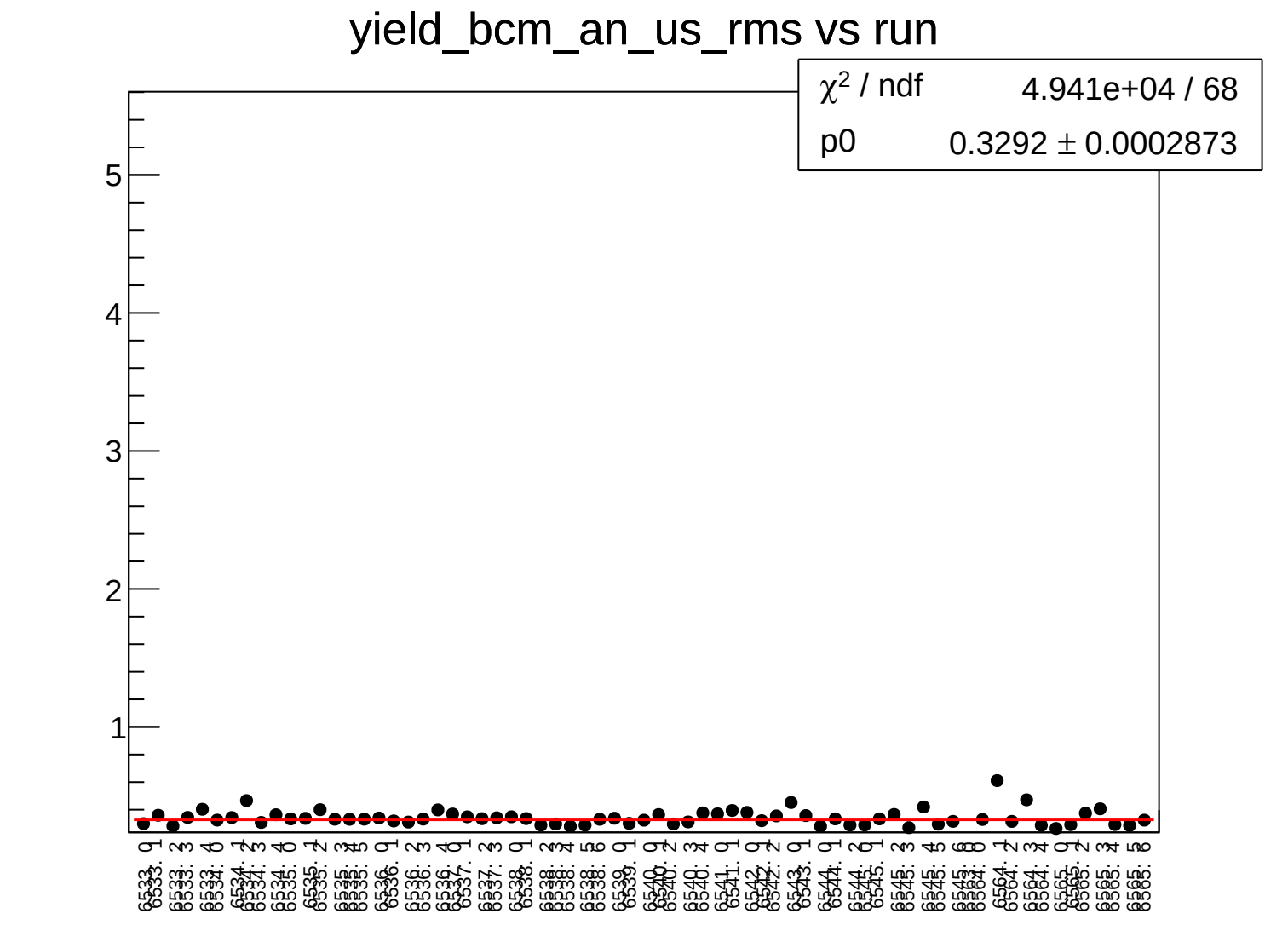

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.682e+06 / 68
p0 149.3 ± 0.0004081
151
150
149
148
147
146
145
pull
Entries 69
Mean −270.7
Std Dev 329.1
400
300
200
100
0
−100
−200

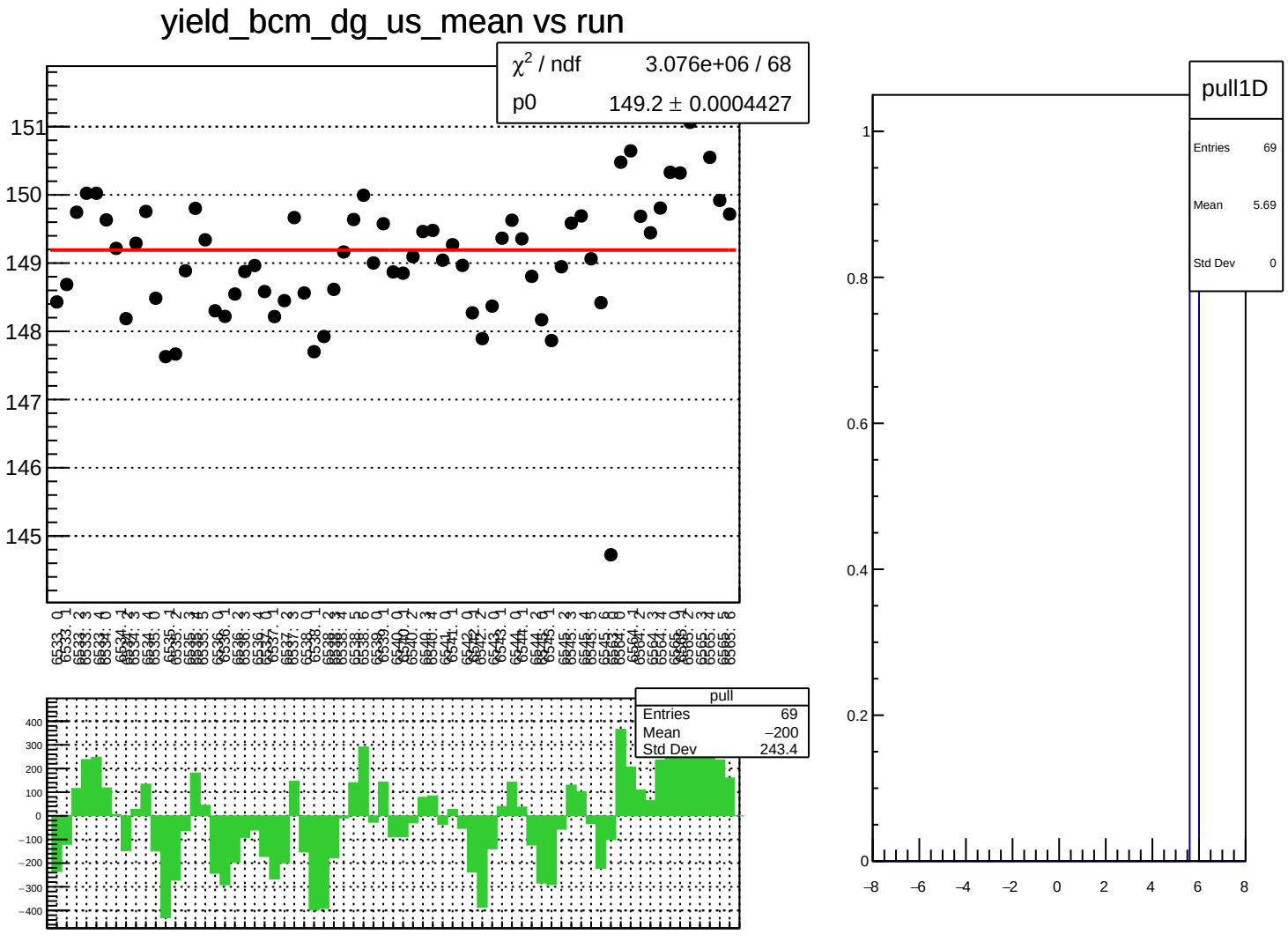

pull1D
Entries 69
Mean 5.483
Std Dev 1.623
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

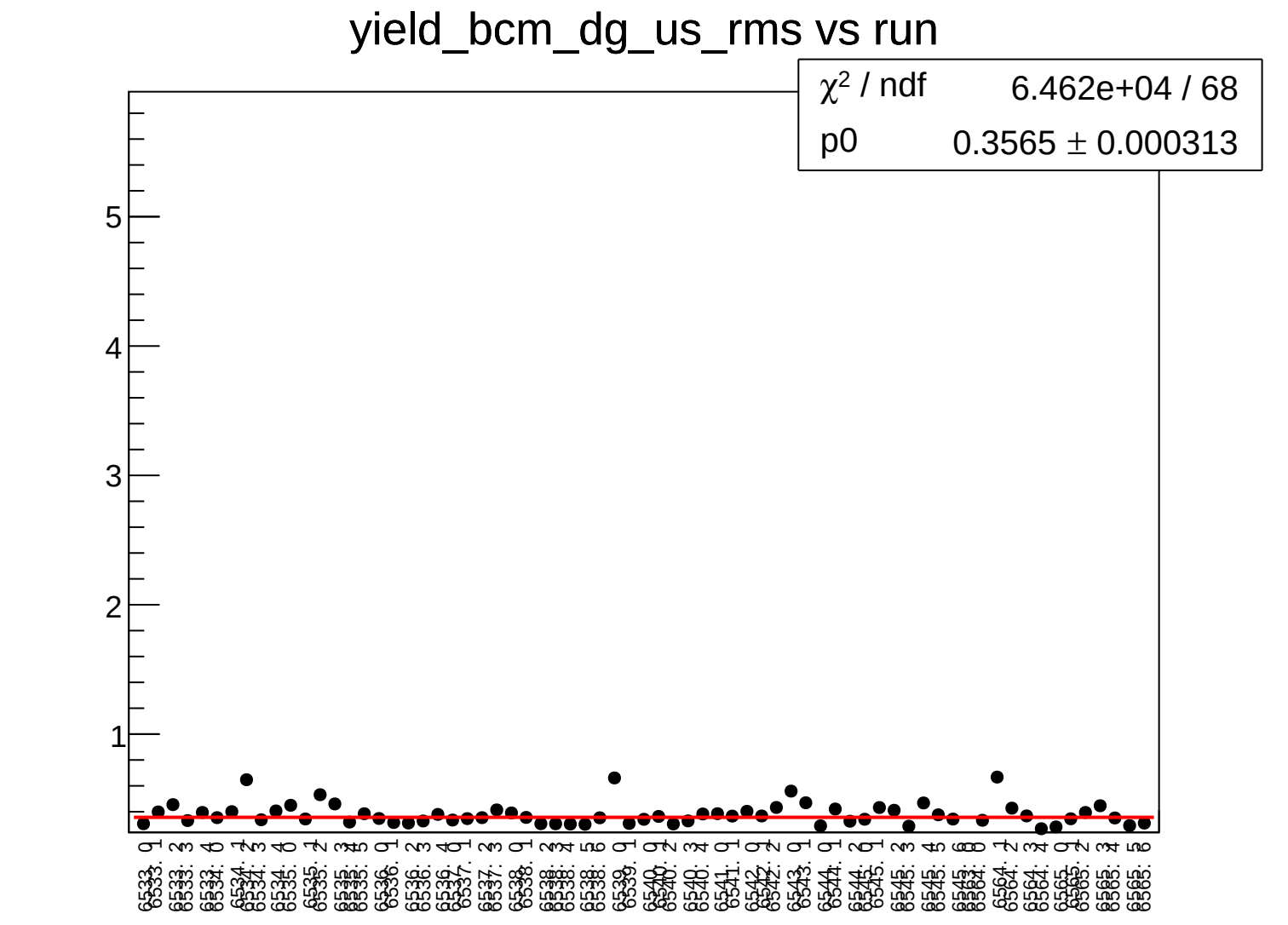

yield_bcm_an_ds3_rms vs run
χ² / ndf 5.032e+04 / 68
p0 0.3305 ± 0.0002886
5
4
3
2
1

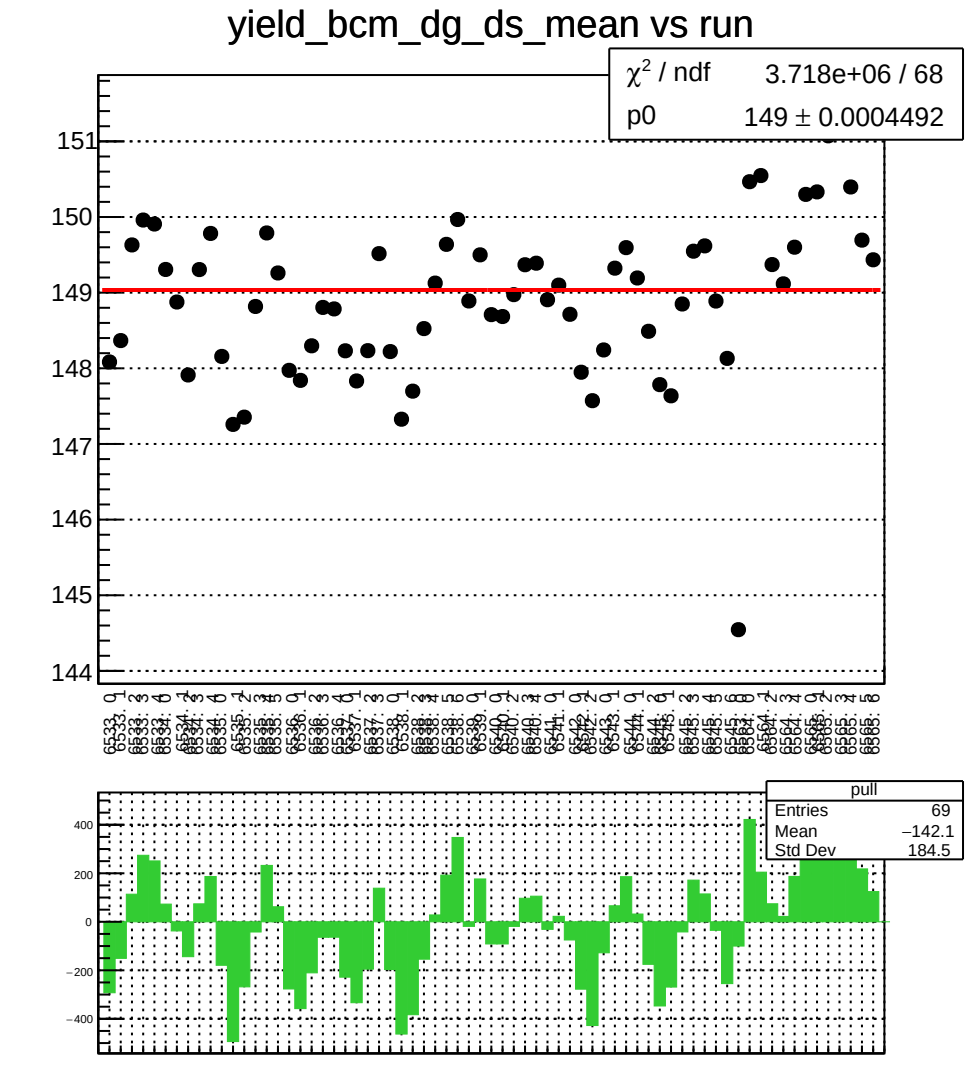

yield_bcm_an_us_mean vs run
χ² / ndf 1.394e+06 / 68
p0 148.8 ± 0.0004063
150
149
148
147
146
145
pull
Entries 69
Mean −362.4
Std Dev 426.3
400
300
200
100
0
−100
−200

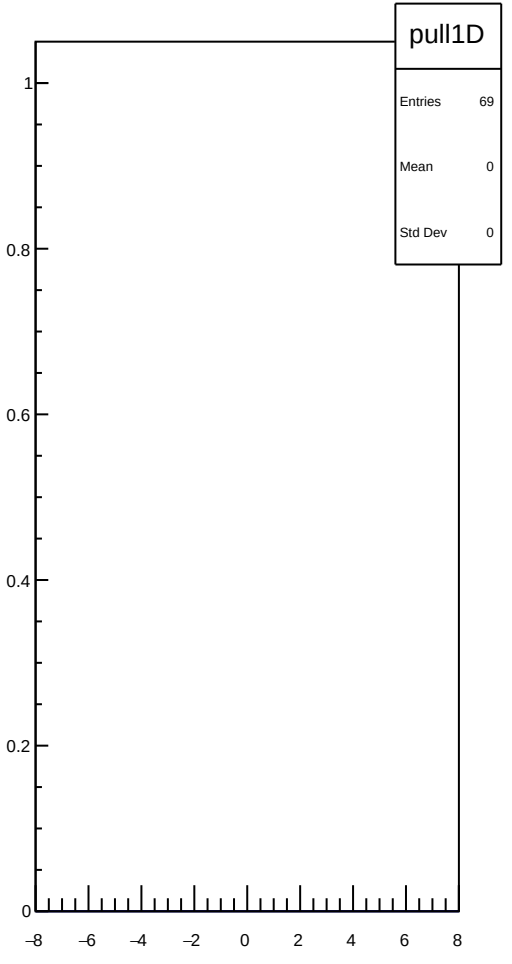

pull1D
Entries 69
Mean −0.8258
Std Dev 5.904
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

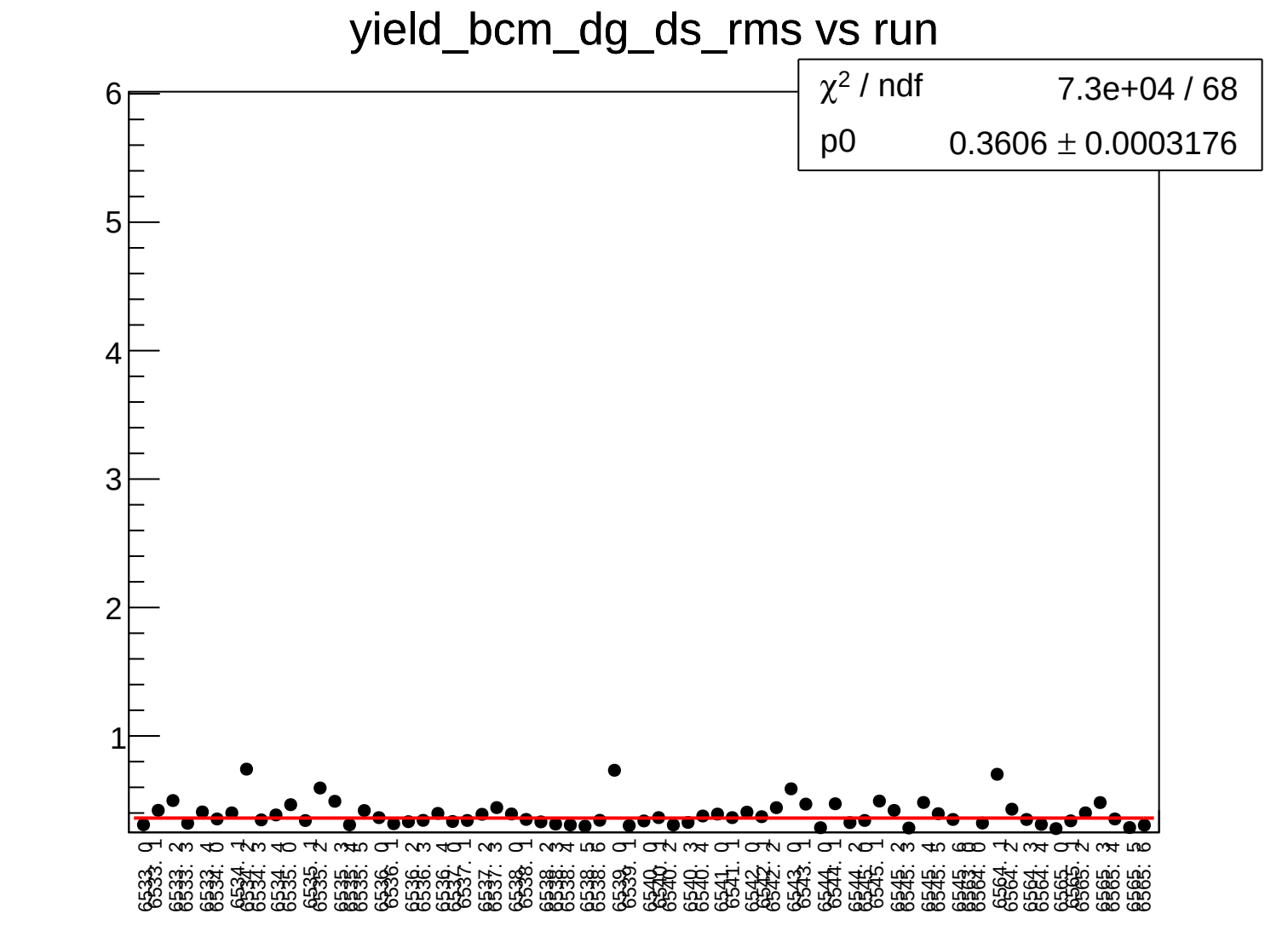

yield_bcm_an_us_rms vs run
χ² / ndf 4.941e+04 / 68
p0 0.3292 ± 0.0002873
5
4
3
2
1

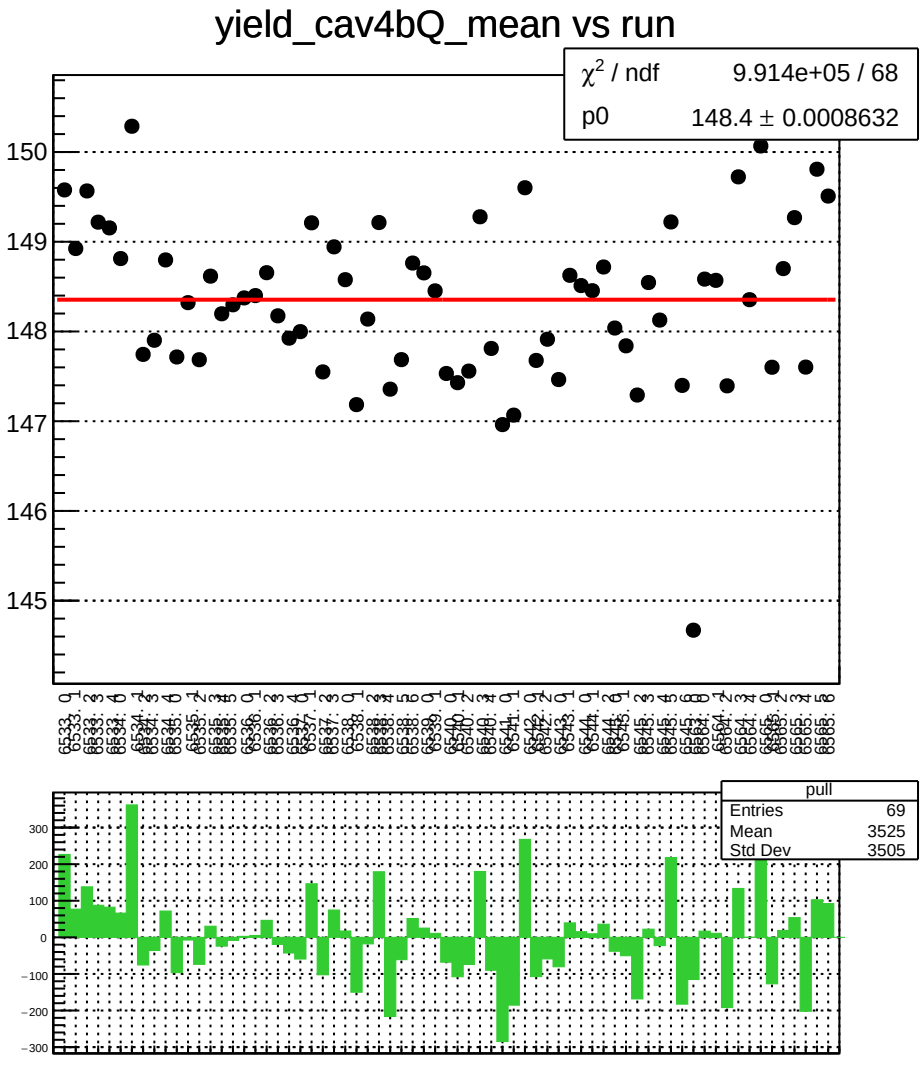

yield_bcm_dg_us_mean vs run
χ² / ndf 3.076e+06 / 68
p0 149.2 ± 0.0004427
151
150
149
148
147
146
145
pull
Entries 69
Mean −200
Std Dev 243.4
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 69
Mean 5.69
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

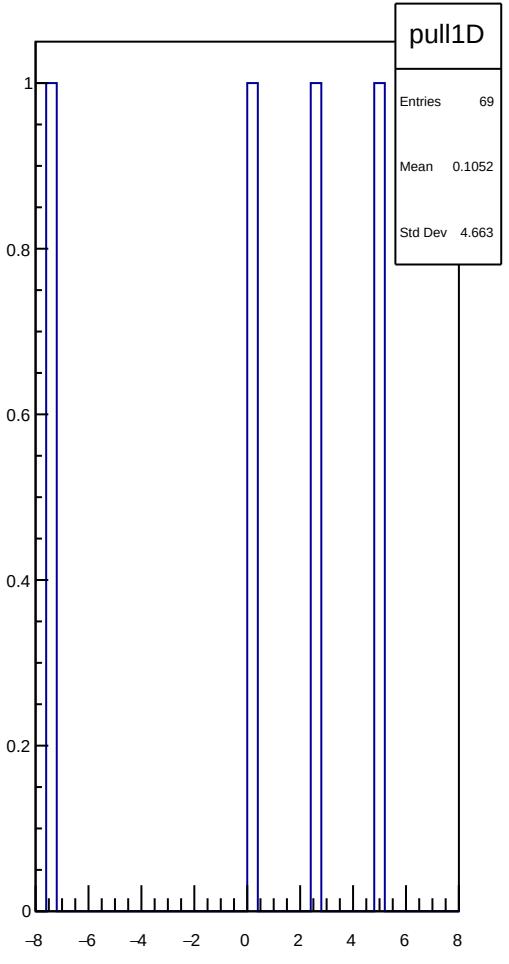

yield_bcm_dg_us_rms vs run
χ² / ndf 6.462e+04 / 68
p0 0.3565 ± 0.000313
5
4
3
2
1

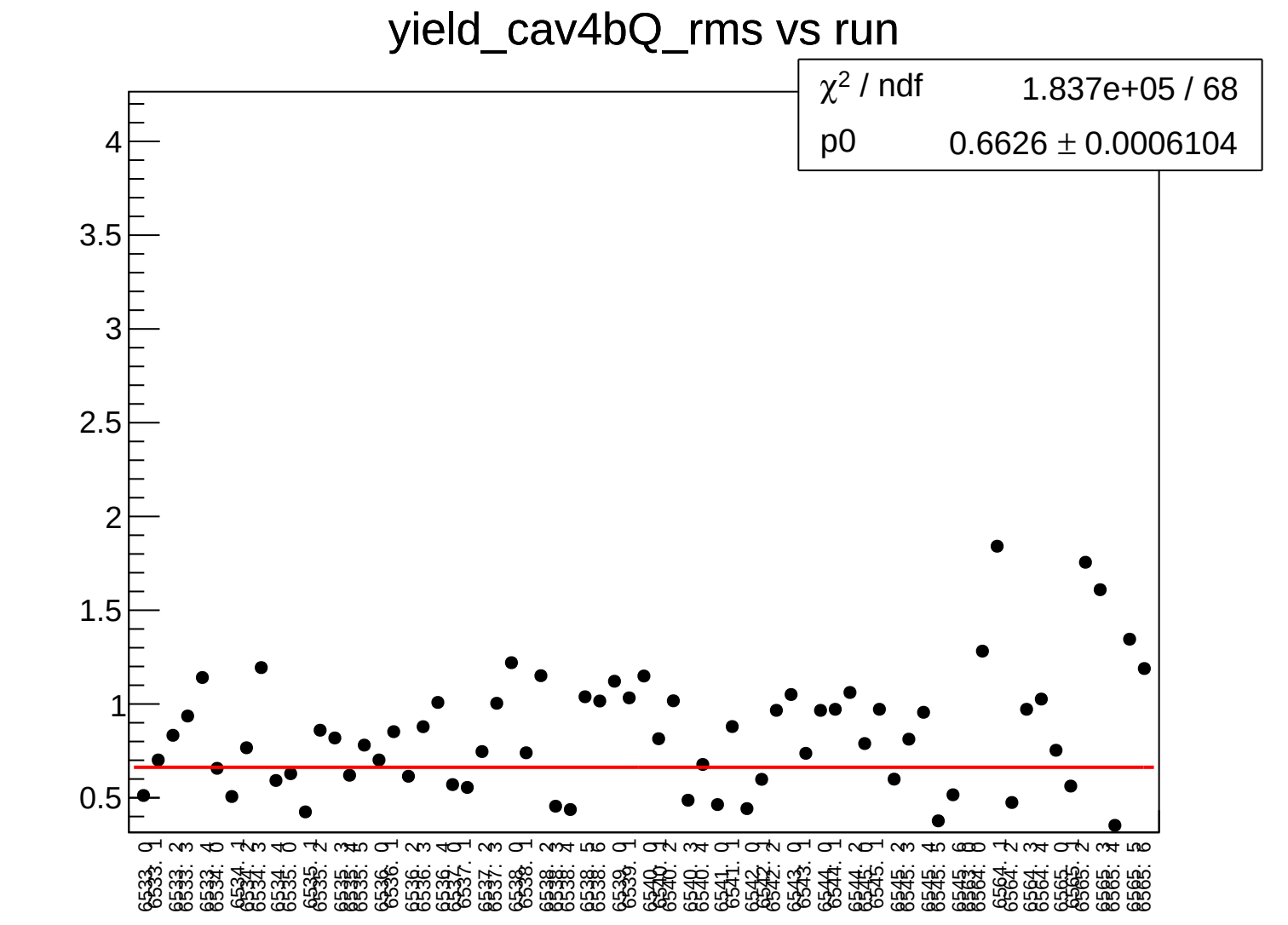

yield_bcm_dg_ds_mean vs run
χ² / ndf 3.718e+06 / 68
p0 149 ± 0.0004492
151
150
149
148
147
146
145
144
pull
Entries 69
Mean −142.1
Std Dev 184.5
400
200
0
−200
−400

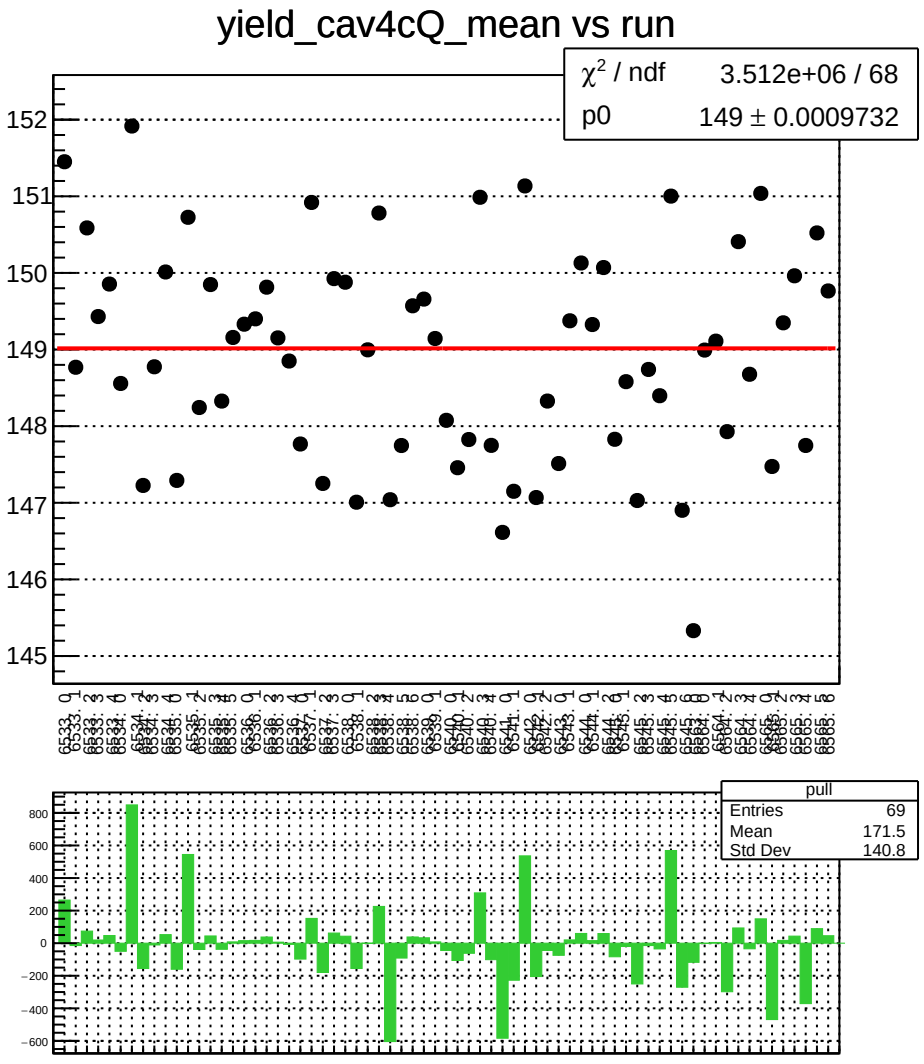

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

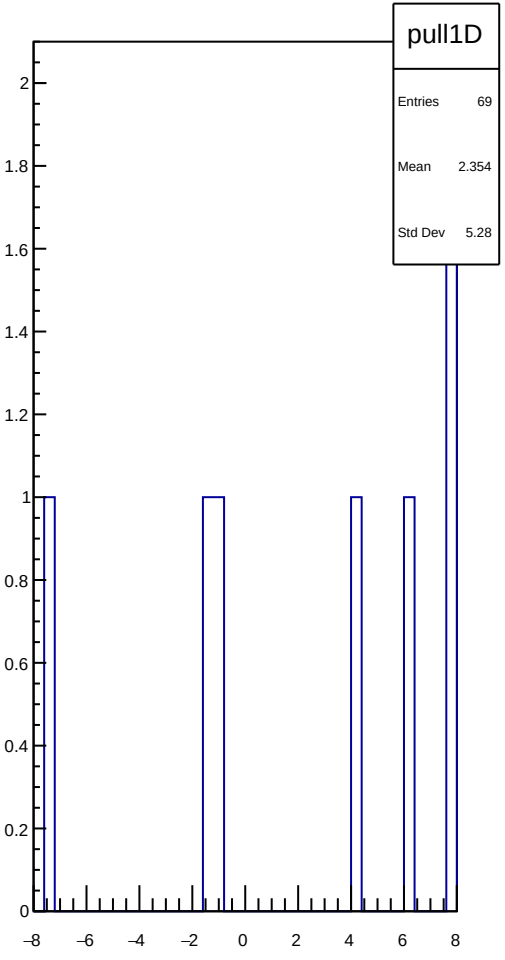

yield_bcm_dg_ds_rms vs run
χ² / ndf 7.3e+04 / 68
p0 0.3606 ± 0.0003176
6
5
4
3
2
1

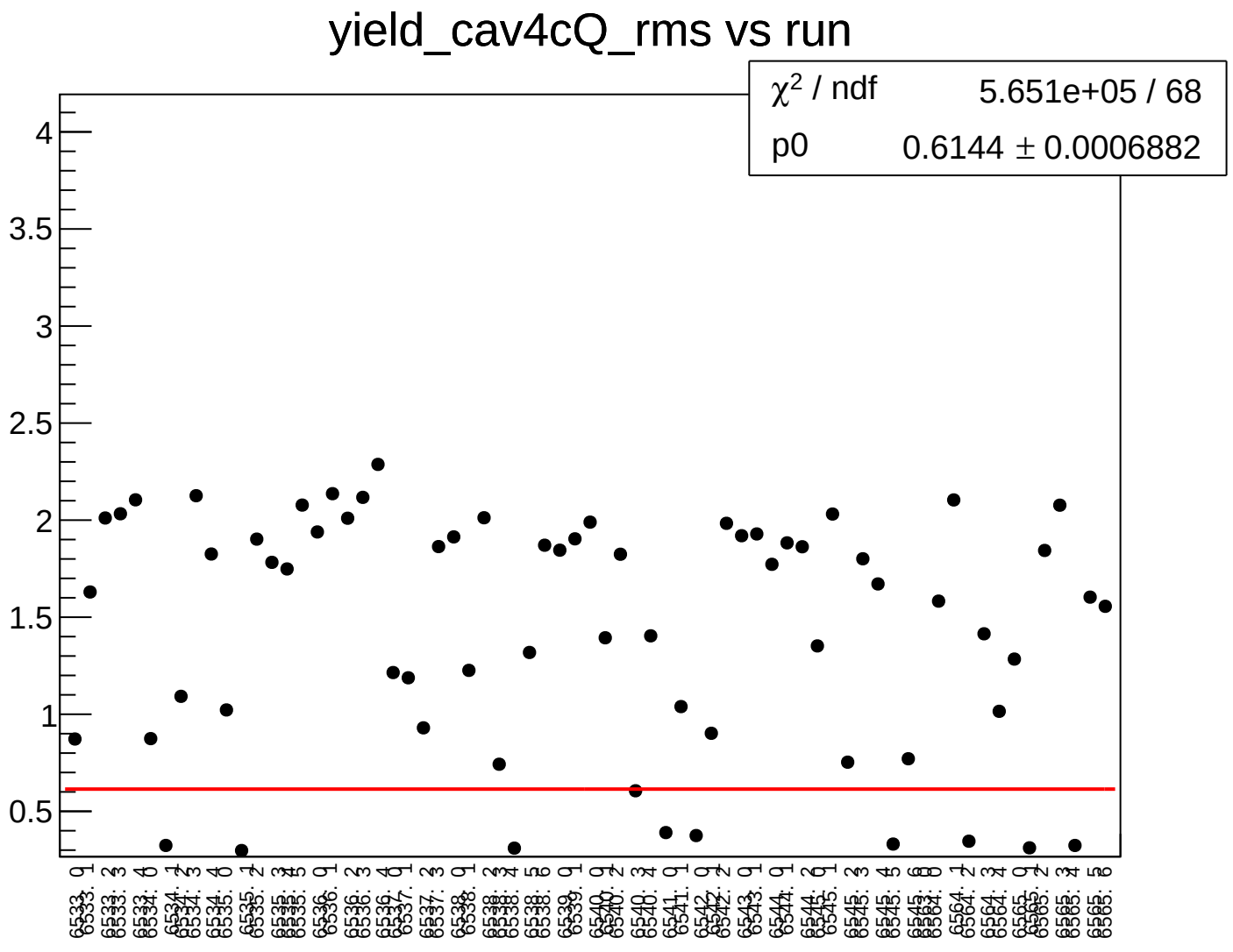

yield_cav4bQ_mean vs run
χ² / ndf 9.914e+05 / 68
p0 148.4 ± 0.0008632
150
149
148
147
146
145
pull
Entries 69
Mean 3525
Std Dev 3505
300
200
100
0
−100
−200
−300

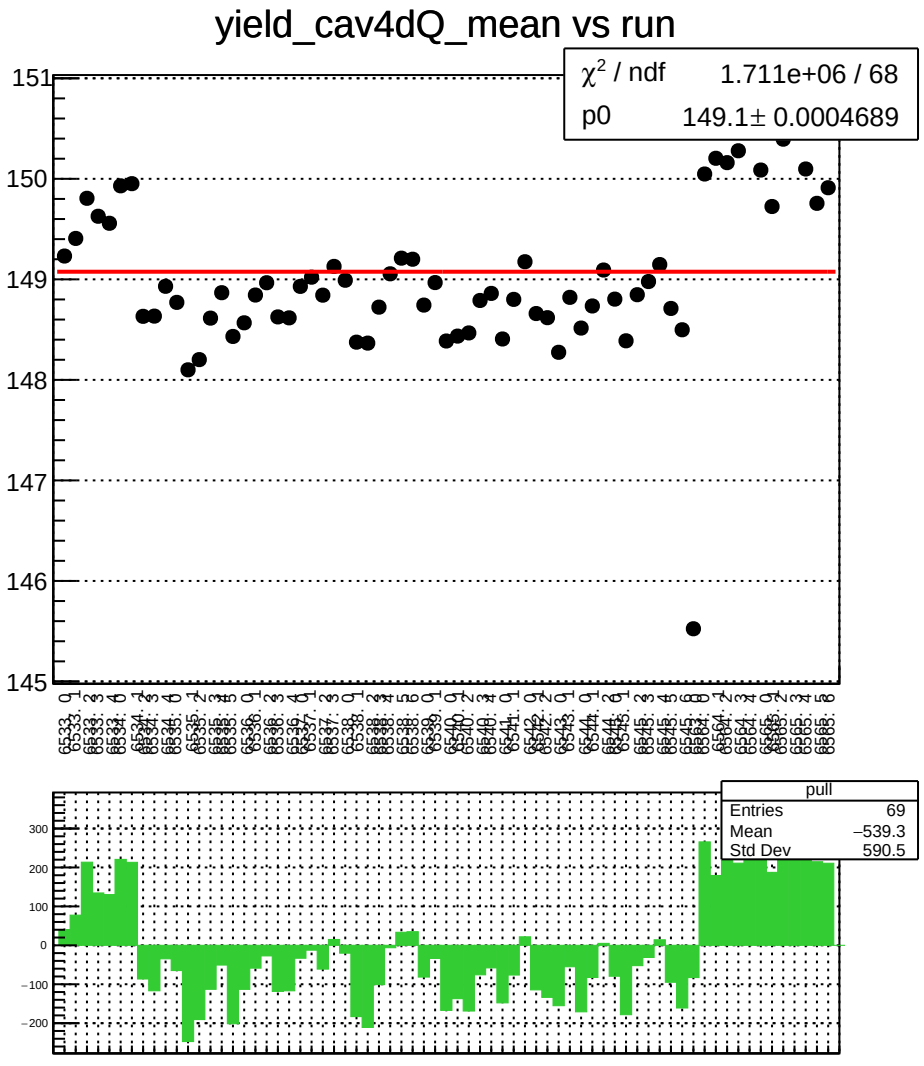

pull1D
Entries 69
Mean 0.1052
Std Dev 4.663
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

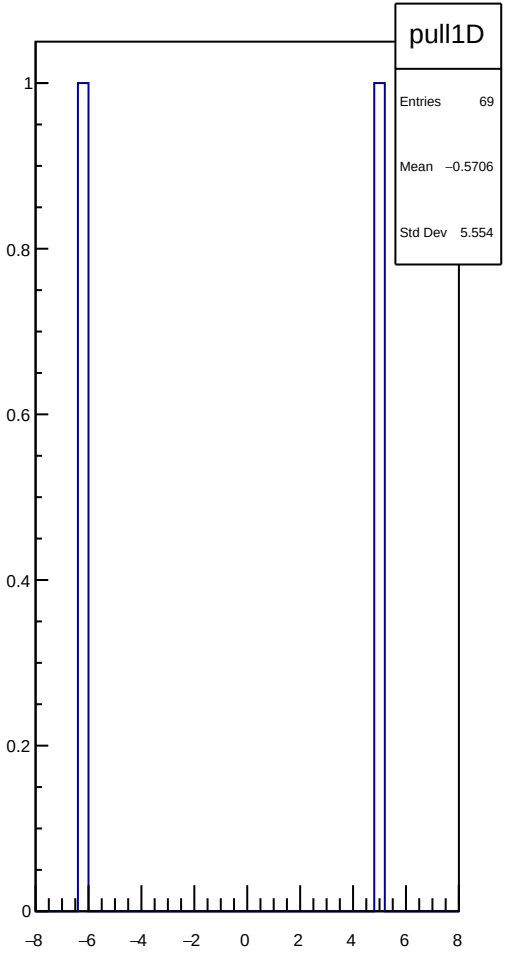

yield_cav4bQ_rms vs run
χ² / ndf 1.837e+05 / 68
p0 0.6626 ± 0.0006104
4
3.5
3
2.5
2
1.5
1
0.5

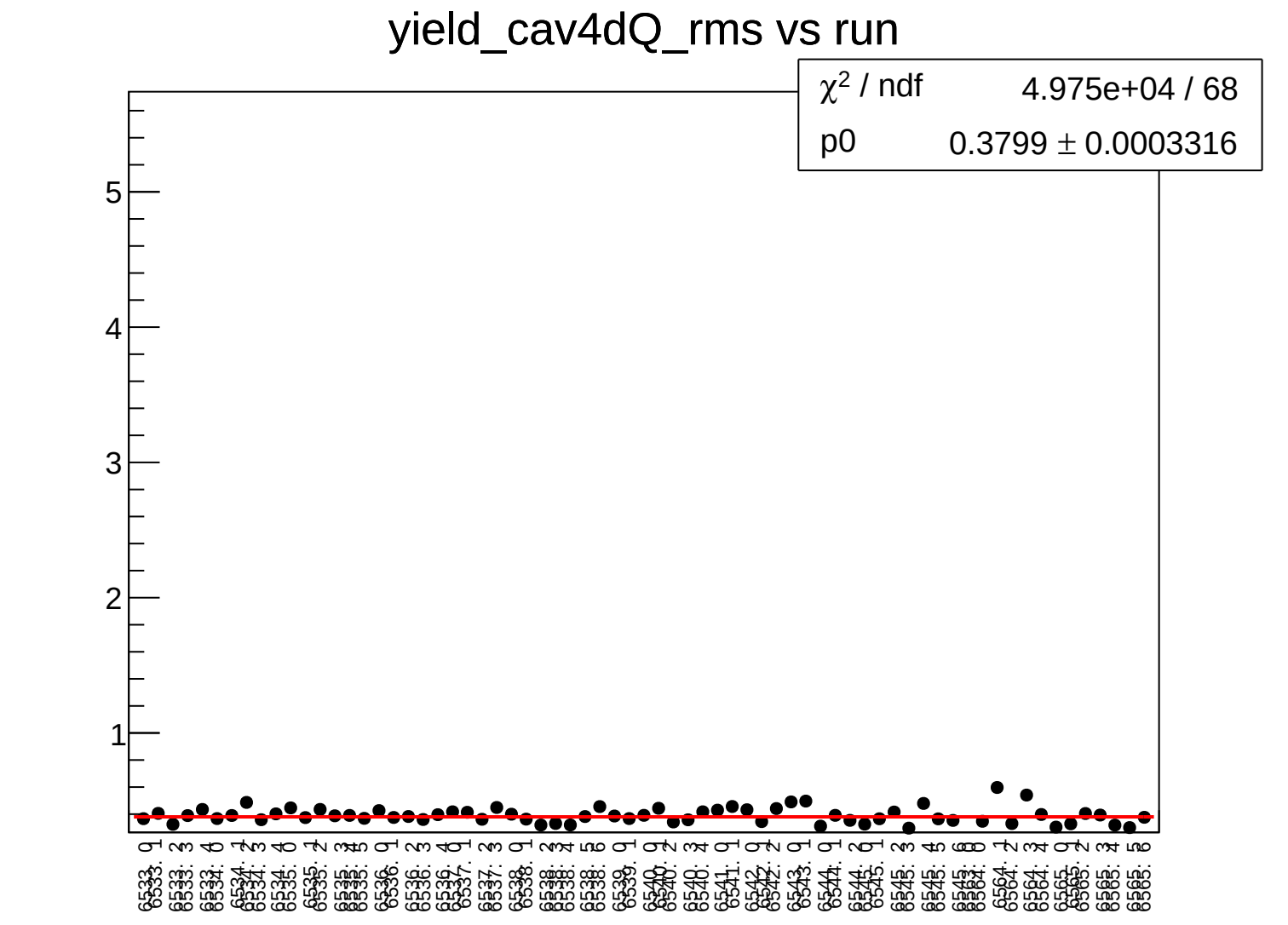

yield_cav4cQ_mean vs run
χ² / ndf 3.512e+06 / 68
p0 149 ± 0.0009732
152
151
150
149
148
147
146
145
pull
Entries 69
Mean 171.5
Std Dev 140.8
800
600
400
200
0
−200
−400
−600

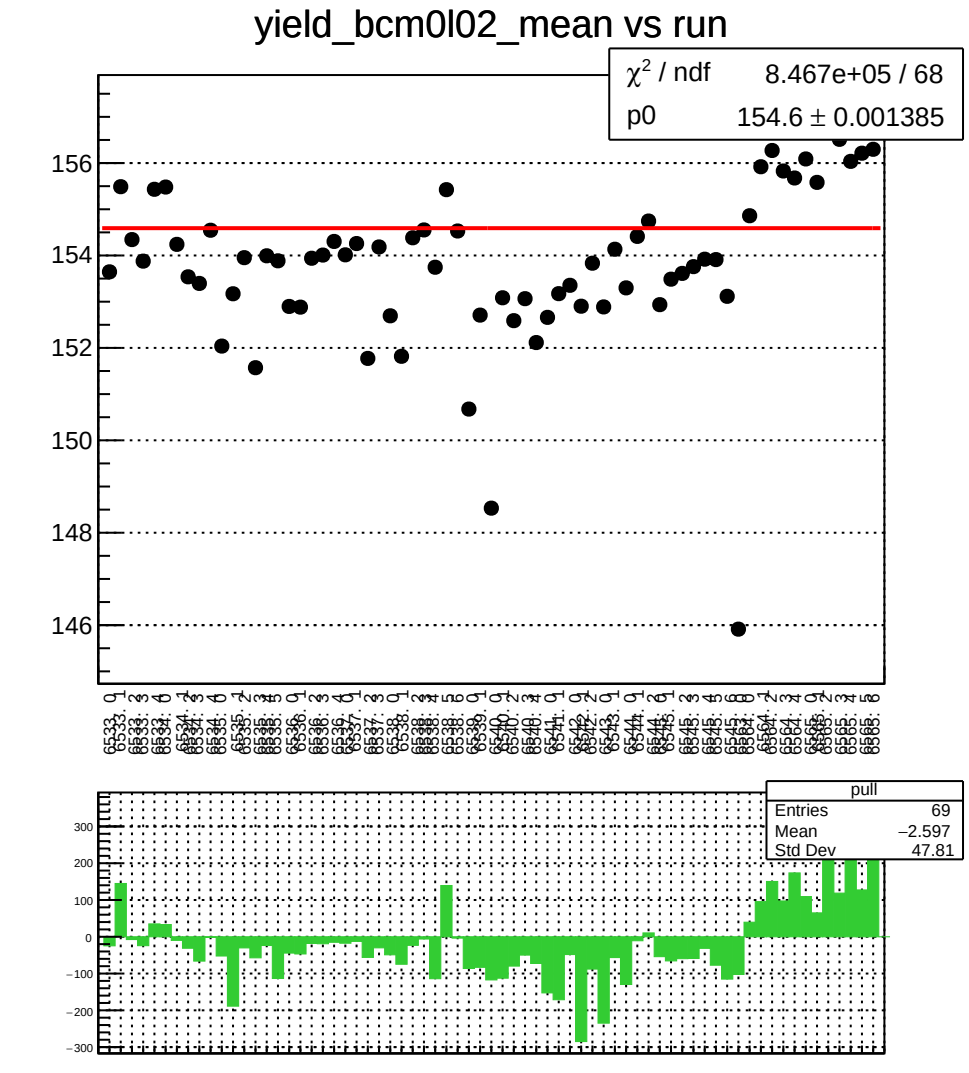

pull1D
Entries 69
Mean 2.354
Std Dev 5.28
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

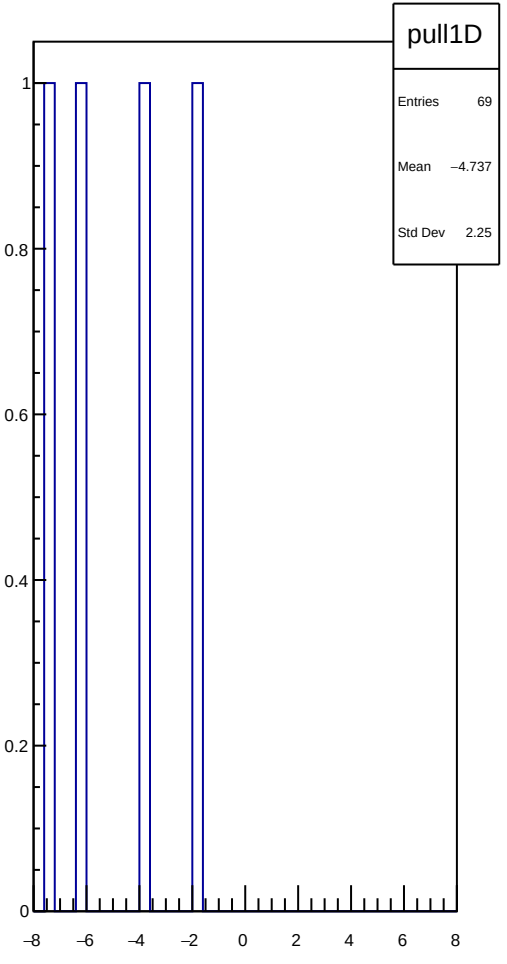

yield_cav4cQ_rms vs run
χ2 / ndf 5.651e+05 / 68
p0 0.6144 ± 0.0006882
4
3.5
3
2.5
2
1.5
1
0.5

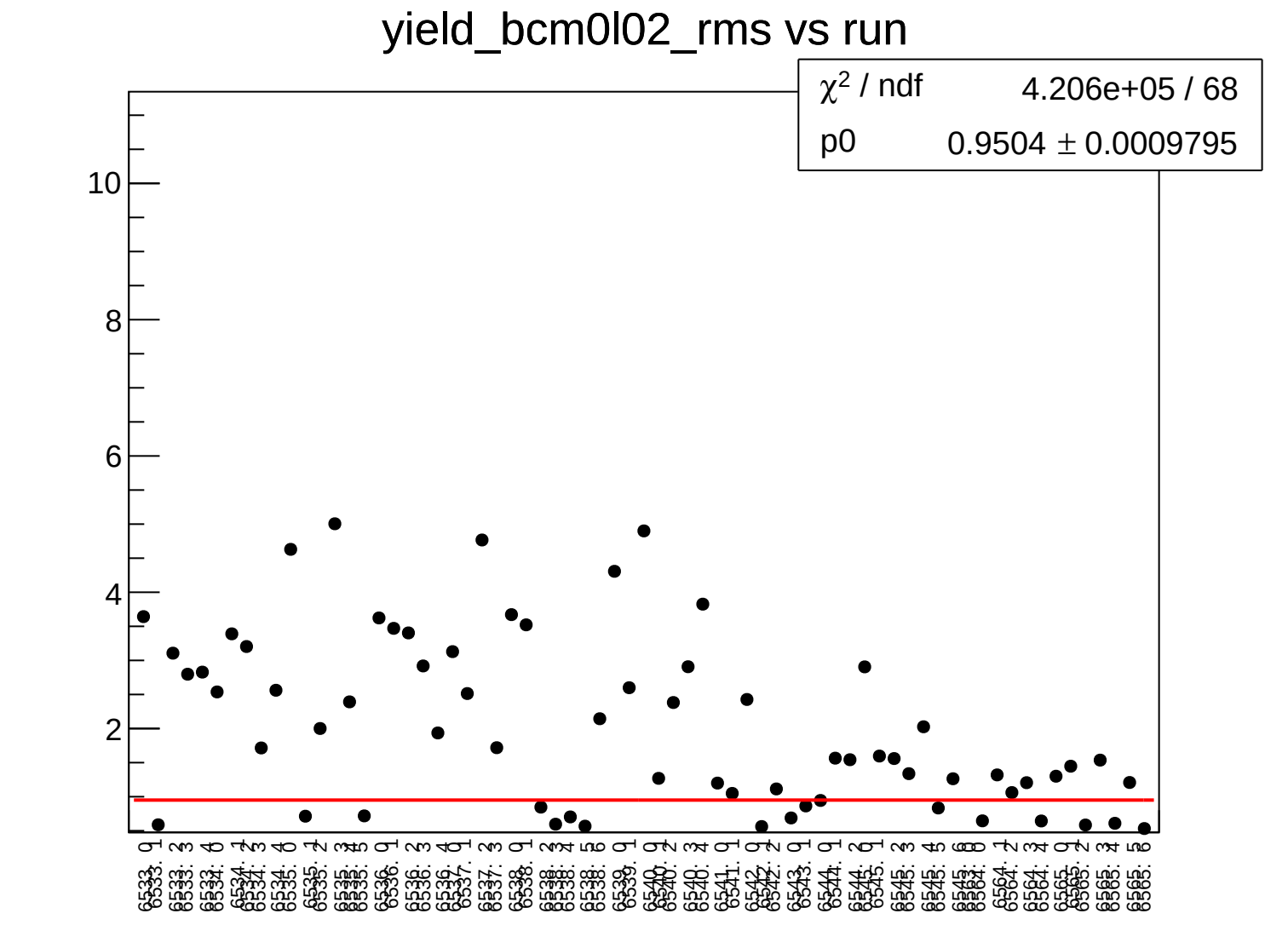

yield_cav4dQ_mean vs run
χ² / ndf 1.711e+06 / 68
p0 149.1± 0.0004689
151
150
149
148
147
146
145
pull
Entries 69
Mean −539.3
Std Dev 590.5
300
200
100
0
−100
−200

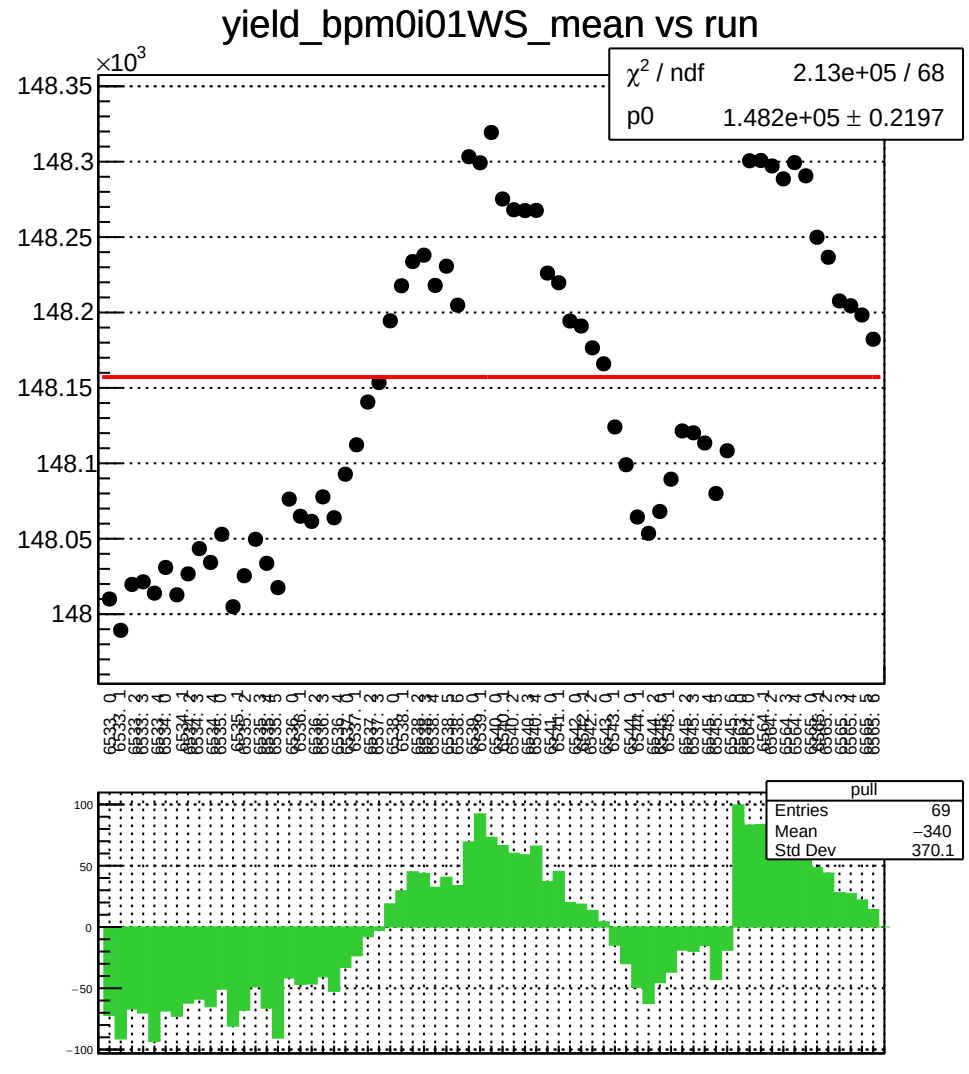

pull1D
Entries 69
Mean −0.5706
Std Dev 5.554
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

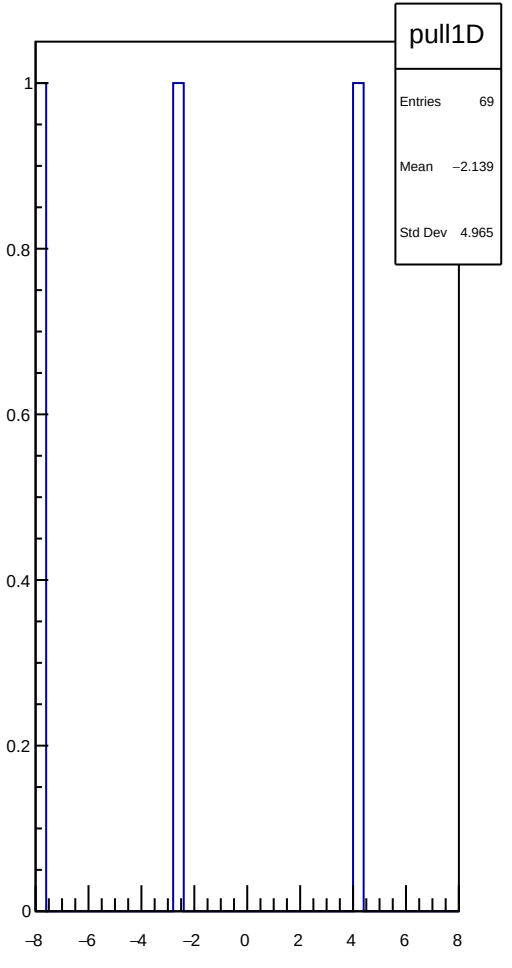

yield_cav4dQ_rms vs run
χ² / ndf 4.975e+04 / 68
p0 0.3799 ± 0.0003316
5
4
3
2
1

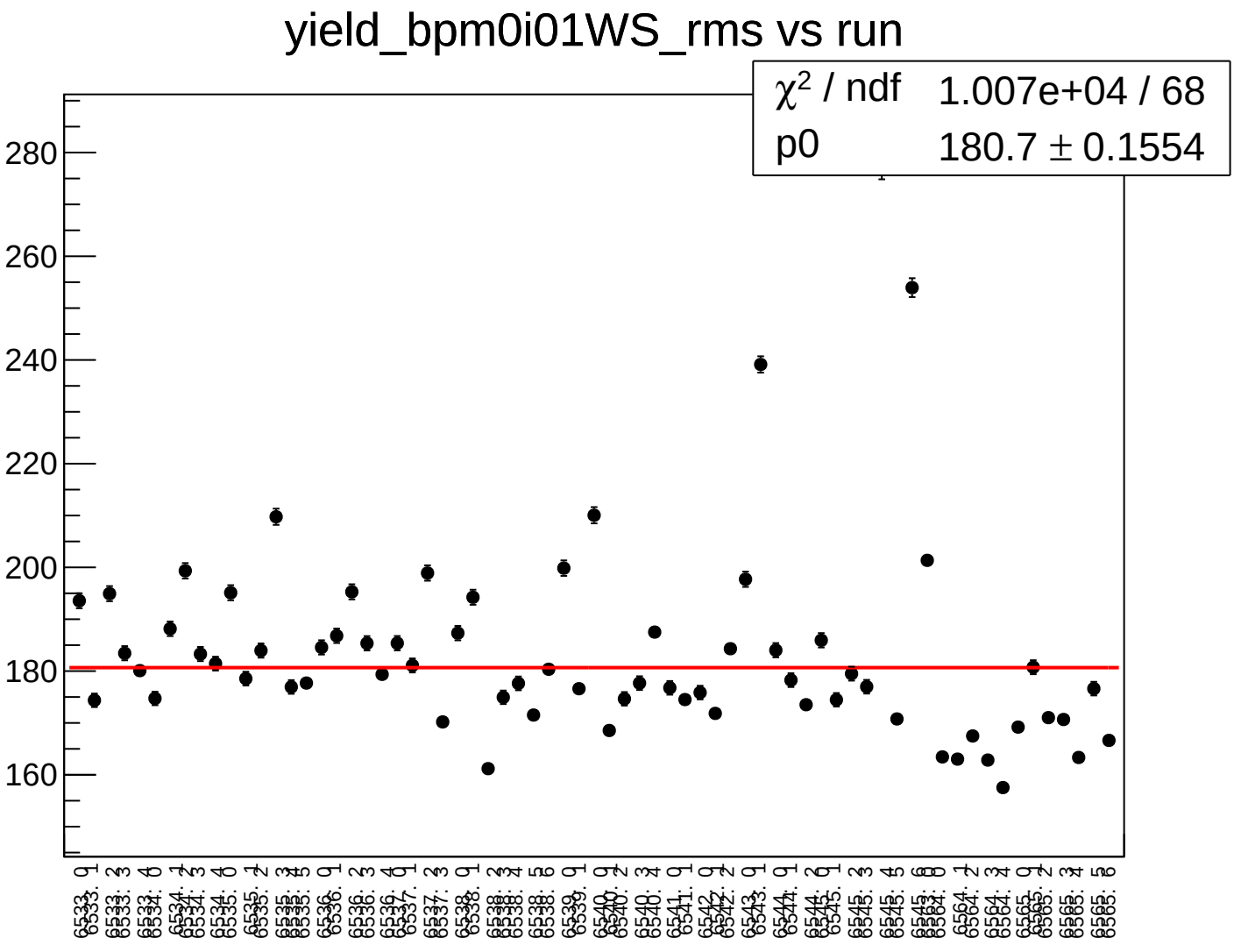

yield_bcm0l02_mean vs run
χ² / ndf 8.467e+05 / 68
p0 154.6 ± 0.001385
156
154
152
150
148
146
pull
Entries 69
Mean −2.597
Std Dev 47.81
300
200
100
0
−100
−200
−300

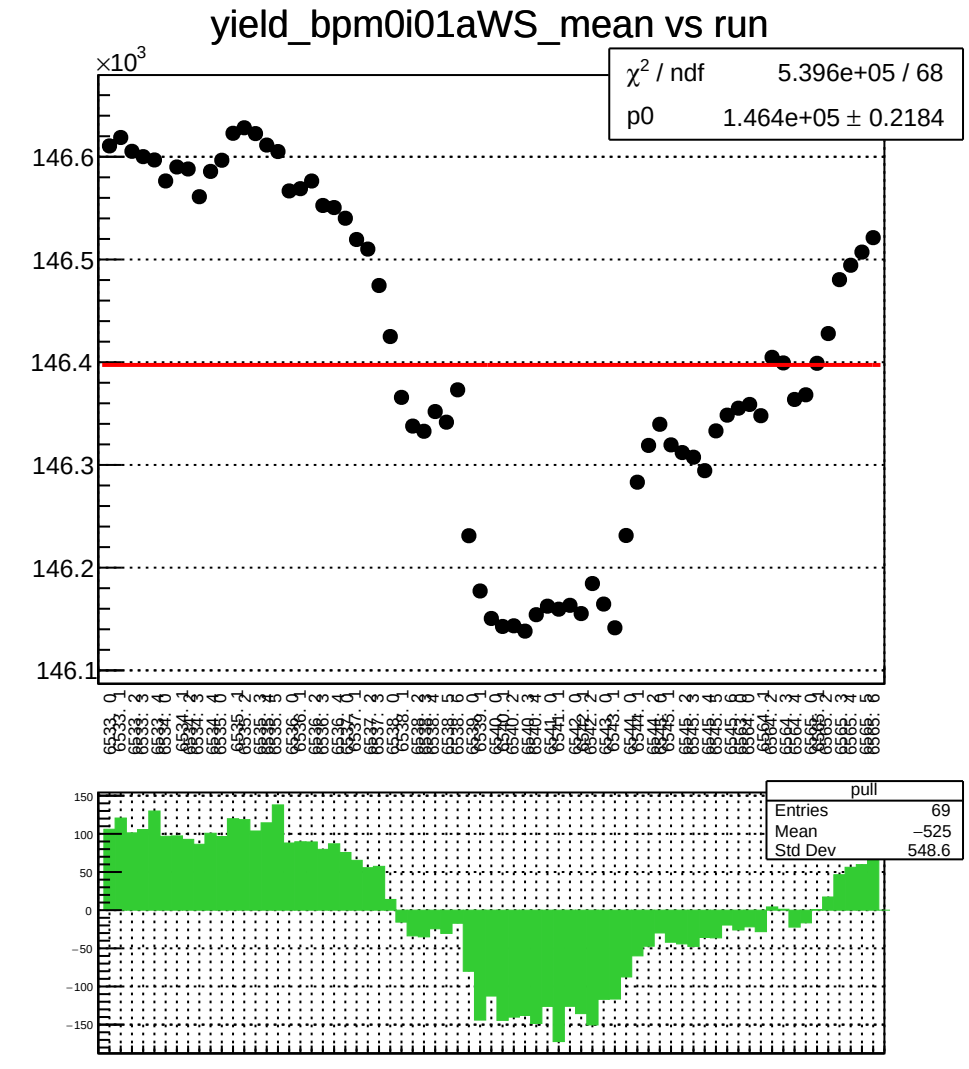

pull1D
Entries 69
Mean −4.737
Std Dev 2.25
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

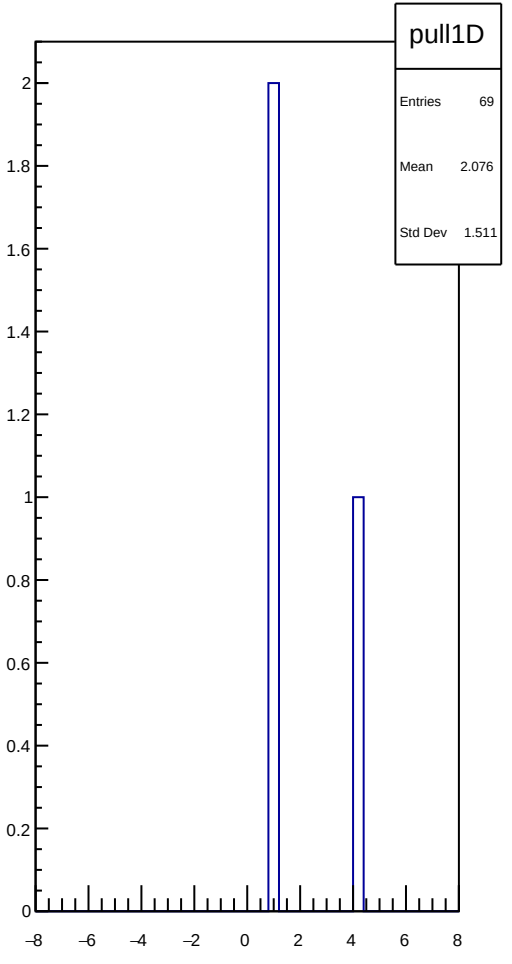

yield_bcm0l02_rms vs run
χ² / ndf 4.206e+05 / 68
p0 0.9504 ± 0.0009795
10
8
6
4
2

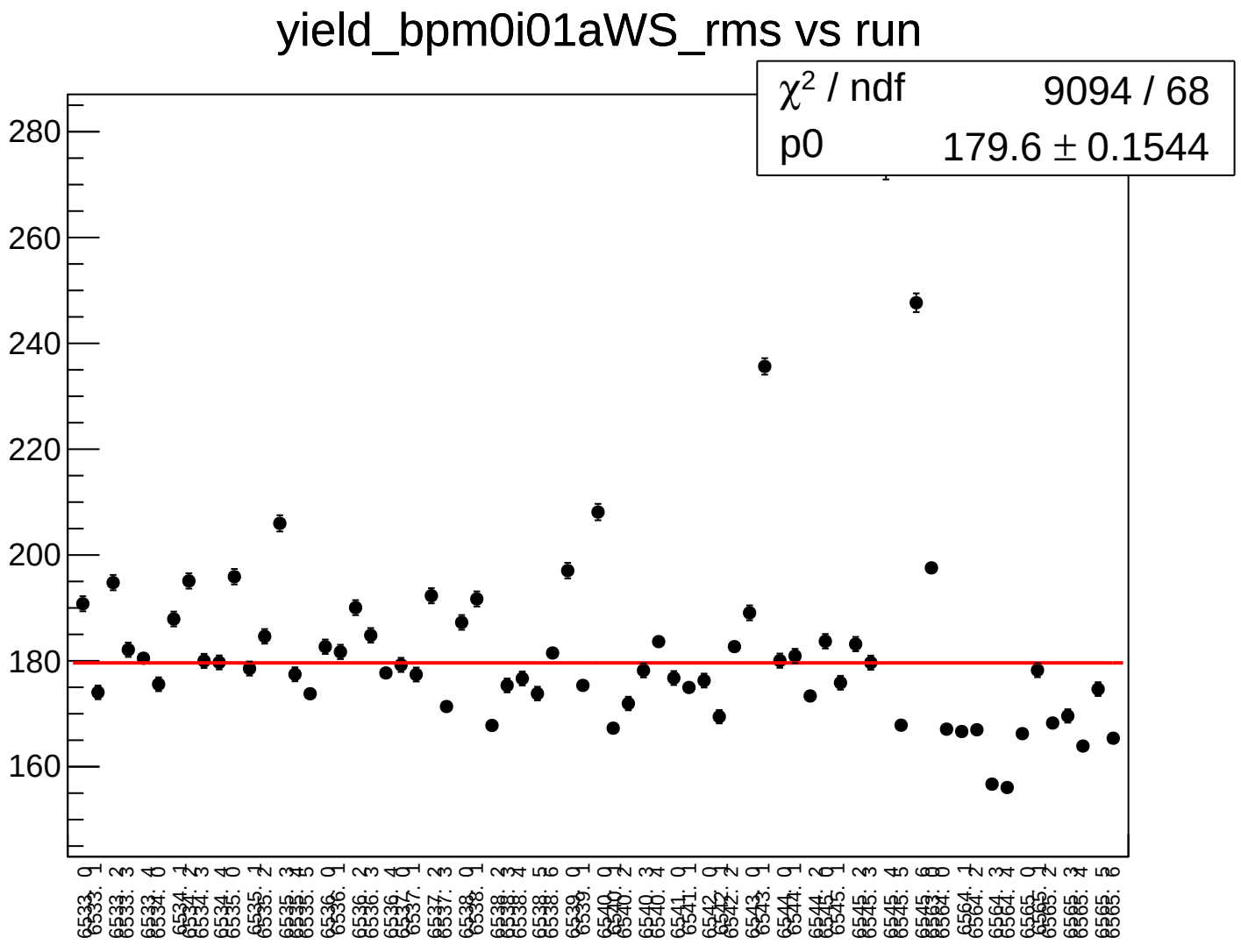

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 2.13e+05 / 68
p0 1.482e+05 ± 0.2197
148.35
148.3
148.25
148.2
148.15
148.1
148.05
148
pull
Entries 69
Mean −340
Std Dev 370.1
100
50
0
−50
−100

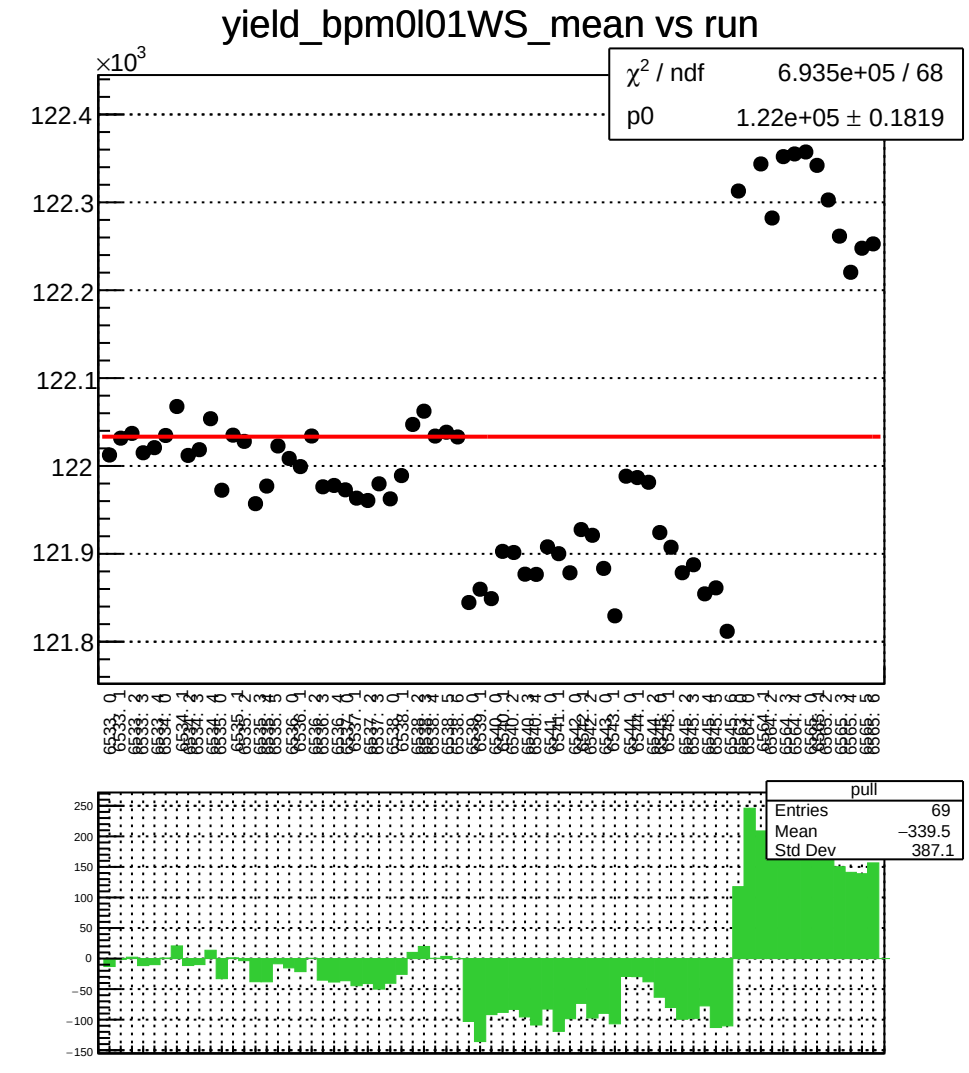

pull1D
Entries 69
Mean −2.139
Std Dev 4.965
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

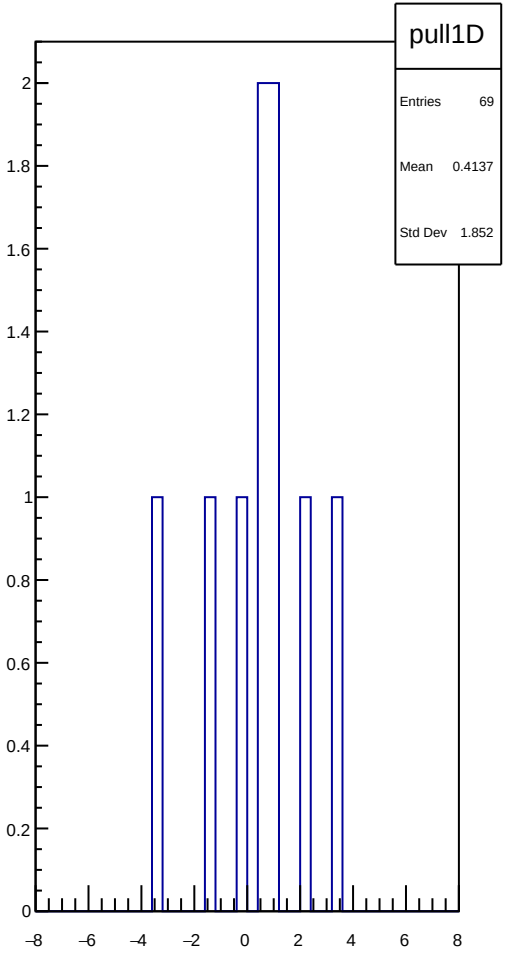

yield_bpm0i01WS_rms vs run
χ² / ndf 1.007e+04 / 68
p0 180.7 ± 0.1554
280
260
240
220
200
180
160

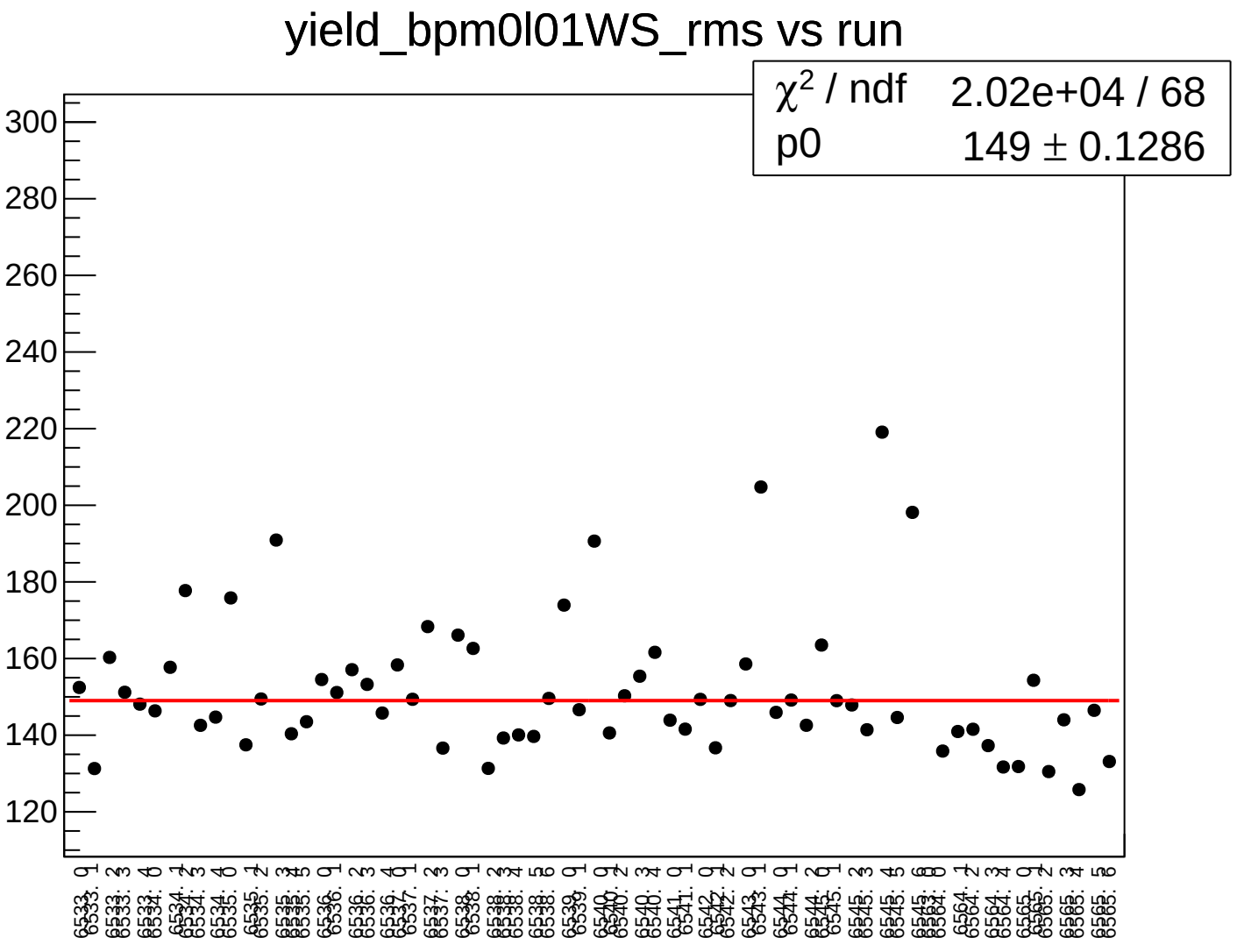

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5.396e+05 / 68
p0 1.464e+05 ± 0.2184
146.6
146.5
146.4
146.3
146.2
146.1
pull
Entries 69
Mean −525
Std Dev 548.6
150
100
50
0
−50
−100
−150

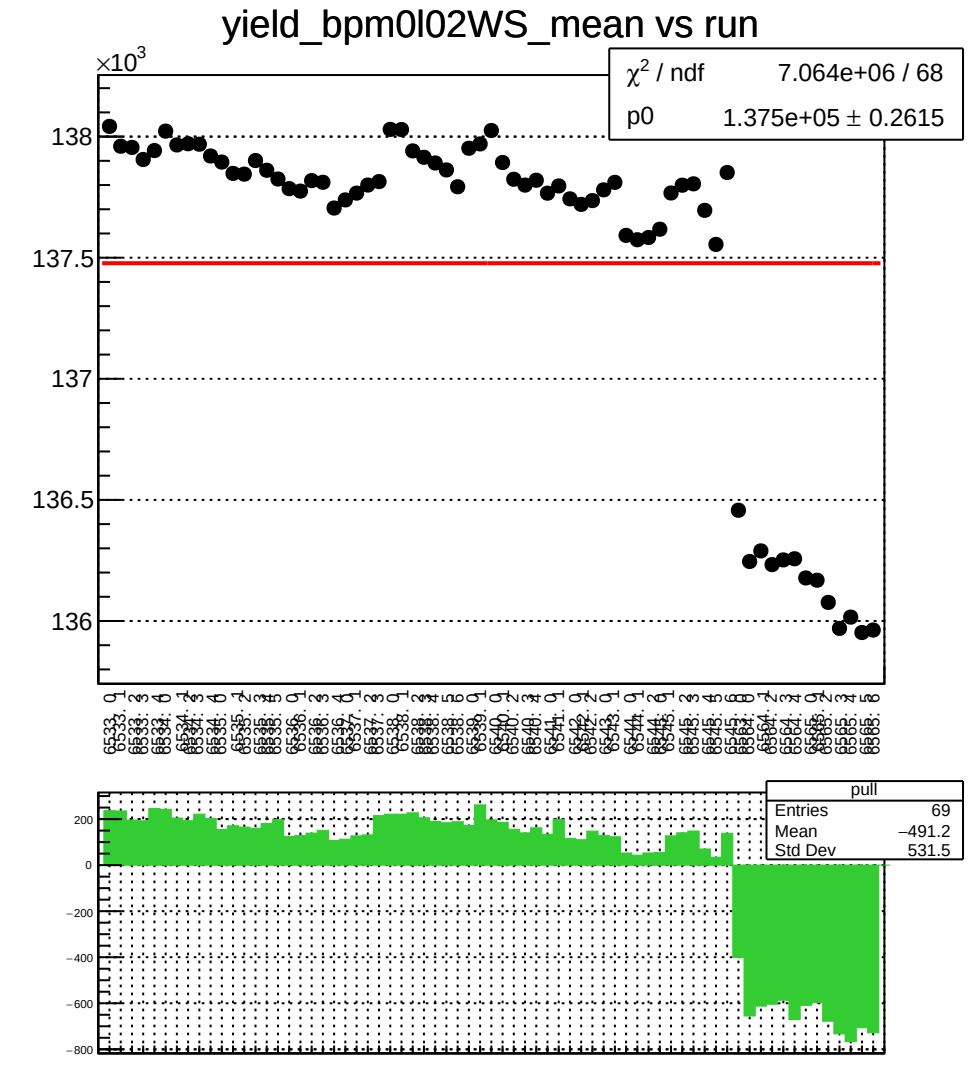

pull1D
Entries 69
Mean 2.076
Std Dev 1.511
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

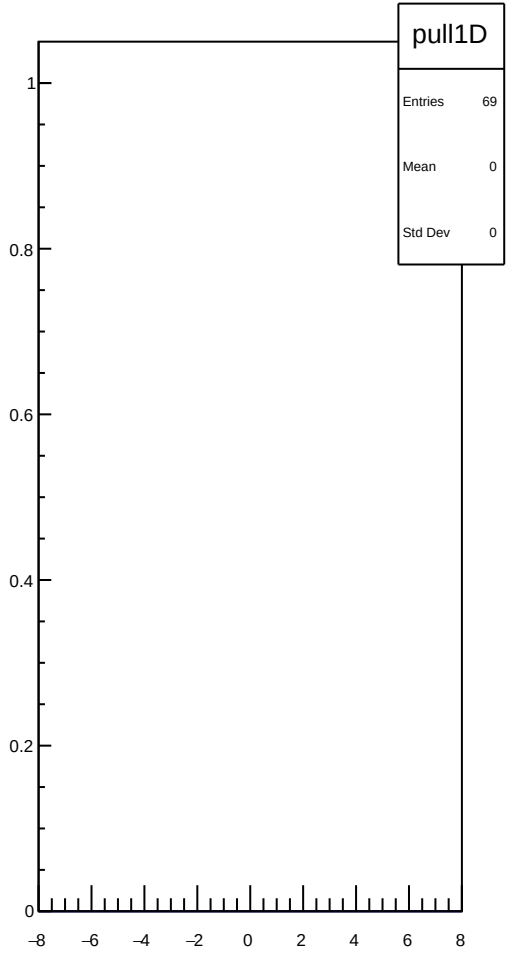

yield_bpm0i01aWS_rms vs run
χ² / ndf 9094 / 68
p0 179.6 ± 0.1544
280
260
240
220
200
180
160

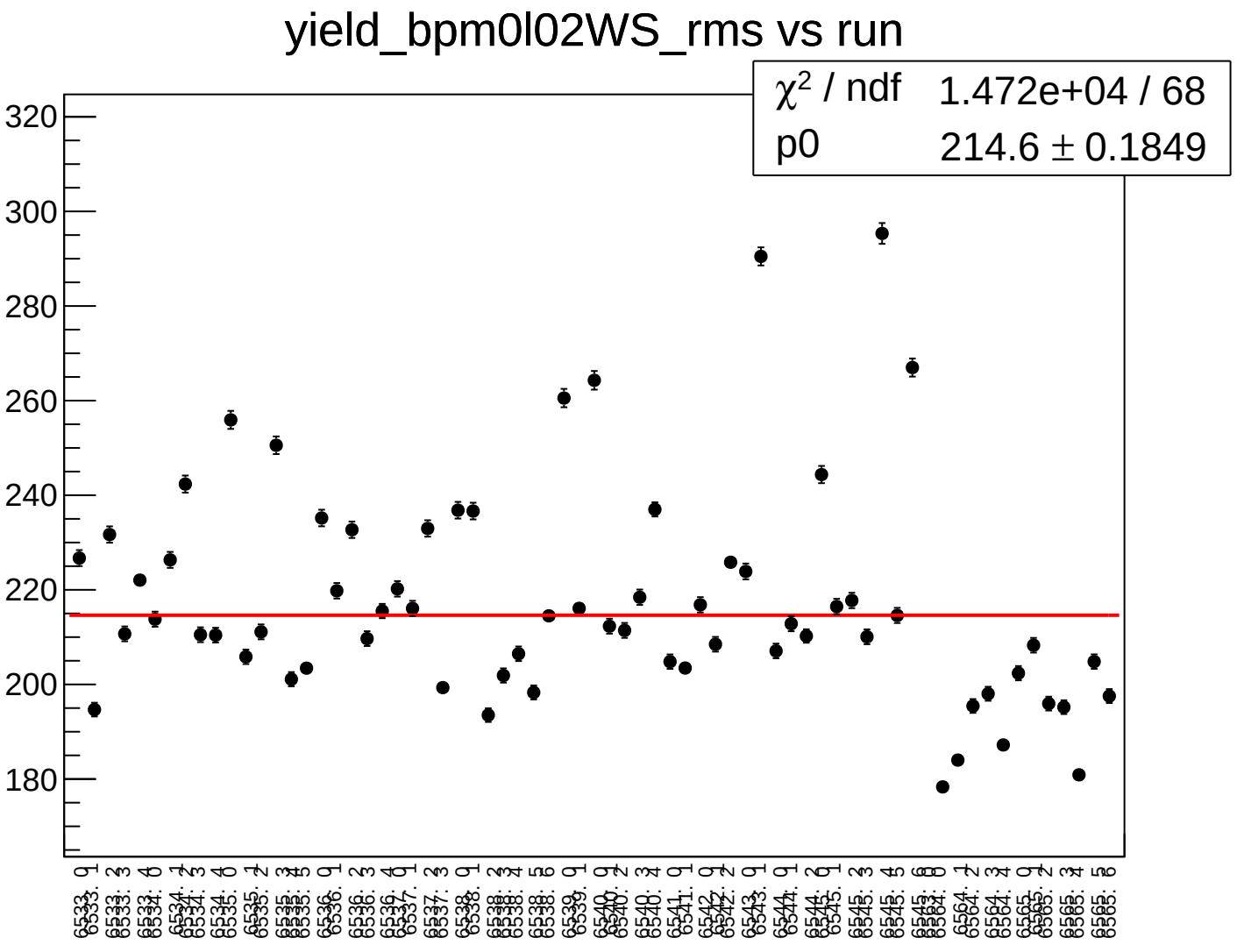

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 6.935e+05 / 68
p0 1.22e+05 ± 0.1819
122.4
122.3
122.2
122.1
122
121.9
121.8
pull
Entries 69
Mean −339.5
Std Dev 387.1
250
200
150
100
50
0
−50
−100
−150

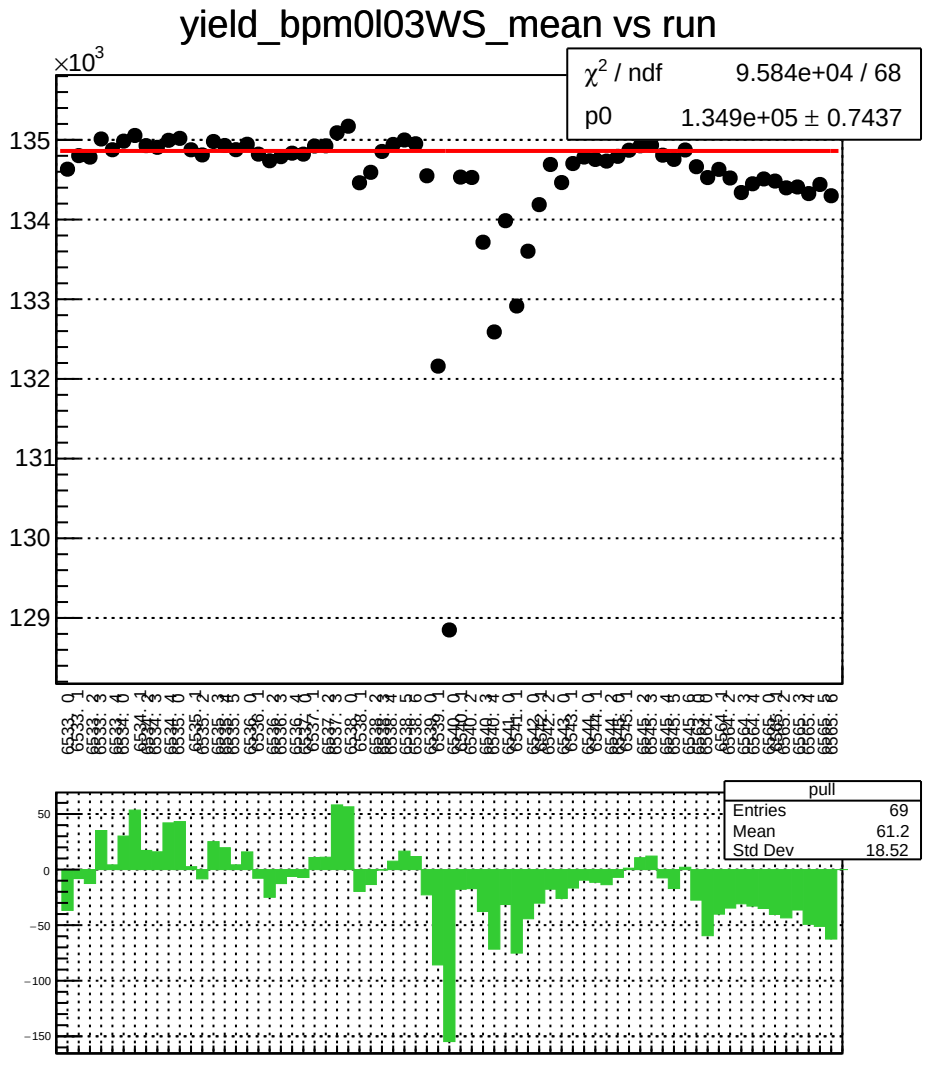

pull1D
Entries 69
Mean 0.4137
Std Dev 1.852
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

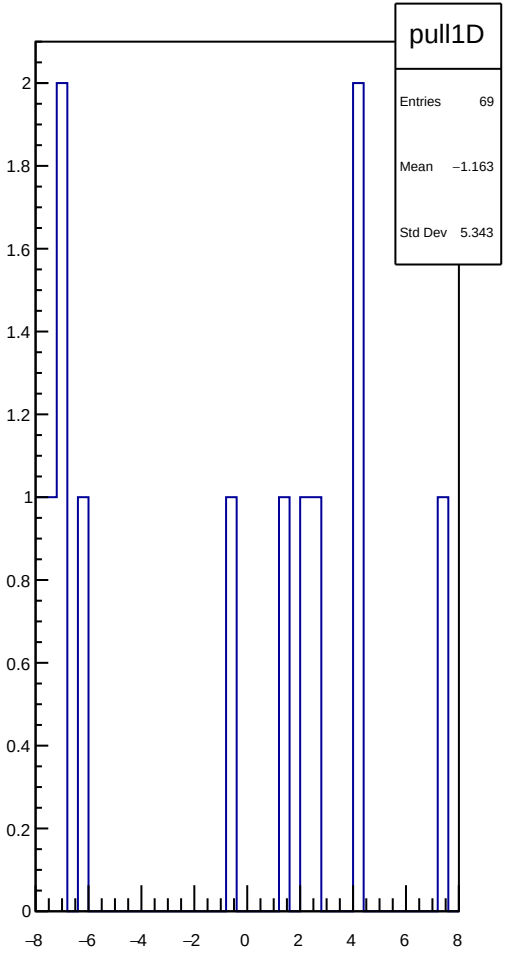

yield_bpm0l01WS_rms vs run
χ² / ndf 2.02e+04 / 68
p0 149 ± 0.1286
300
280
260
240
220
200
180
160
140
120

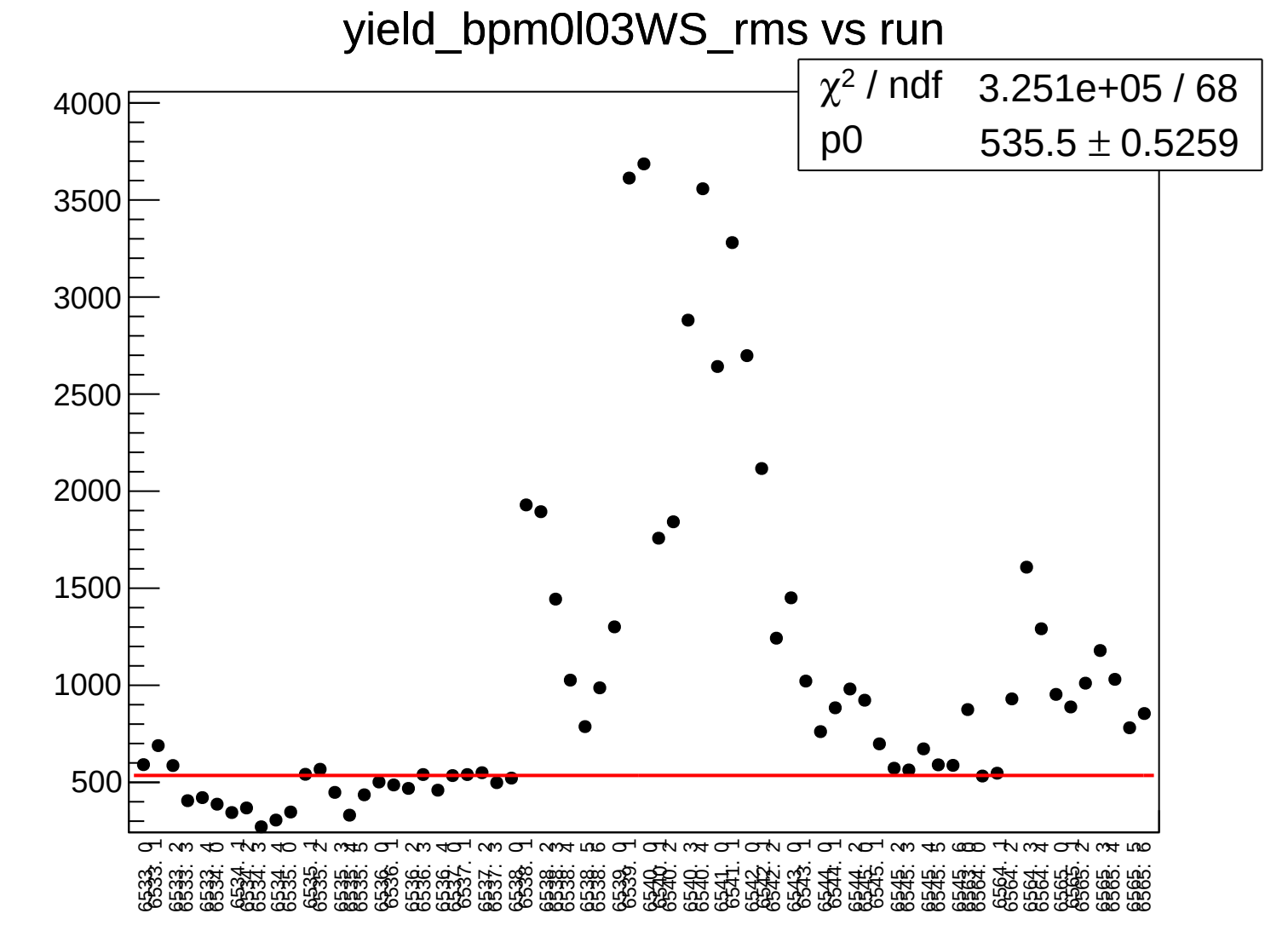

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.064e+06 / 68
p0 1.375e+05 ± 0.2615
138
137.5
137
136.5
136
pull
Entries 69
Mean −491.2
Std Dev 531.5
200
0
−200
−400
−600
−800

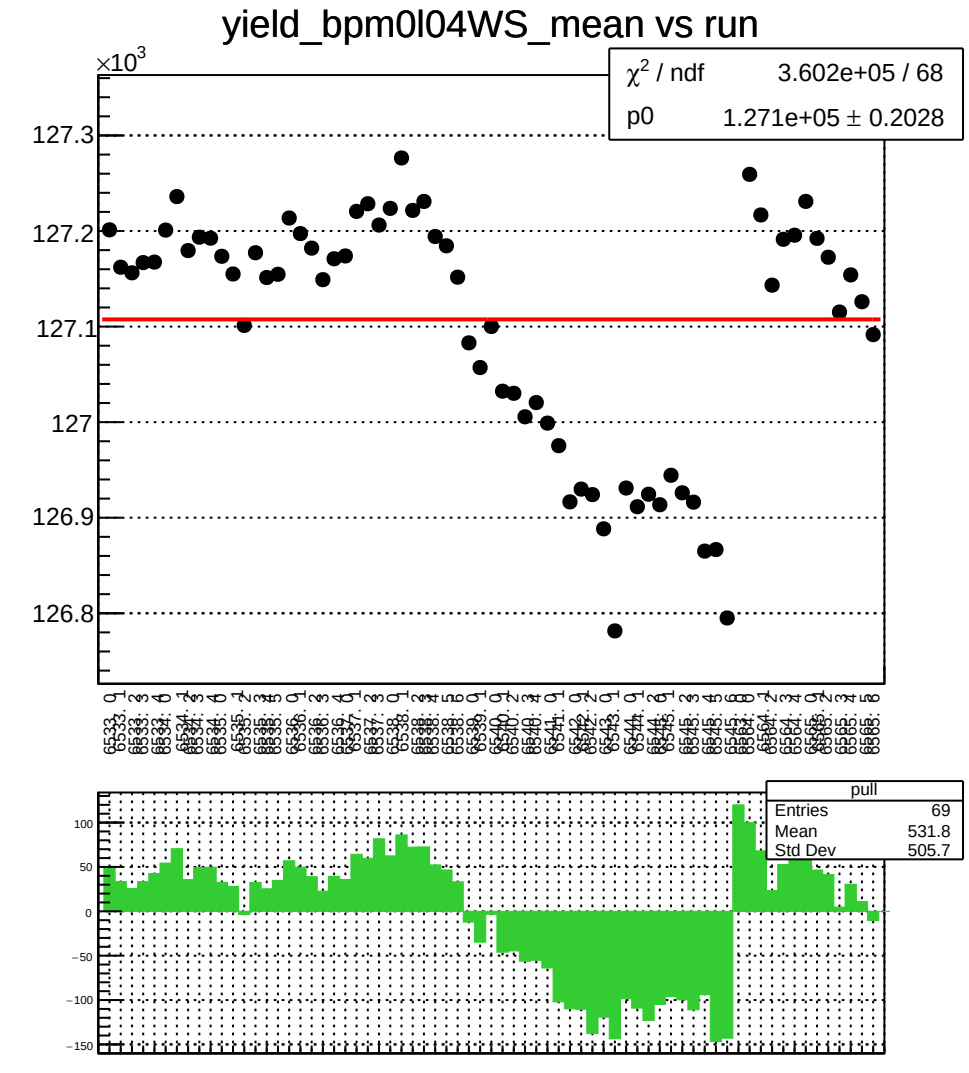

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

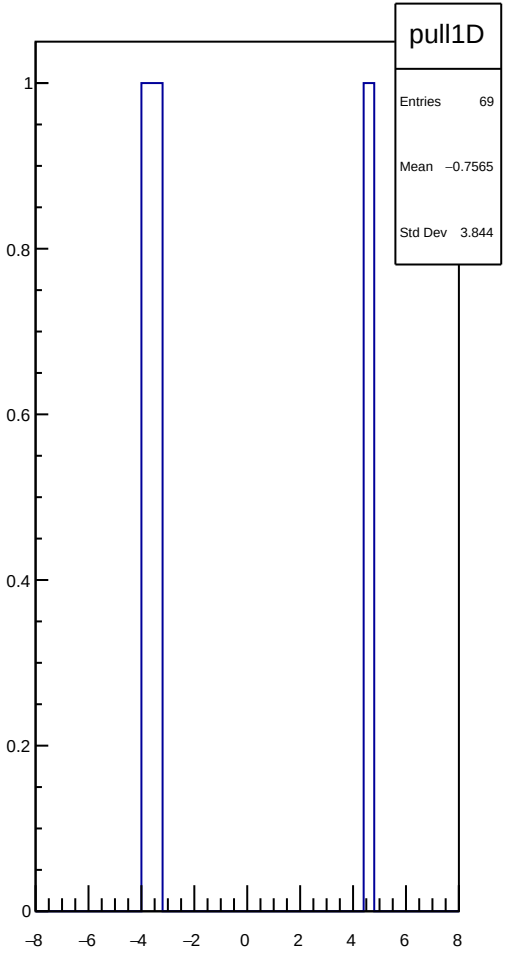

yield_bpm0l02WS_rms vs run
χ² / ndf 1.472e+04 / 68
p0 214.6 ± 0.1849
320
300
280
260
240
220
200
180

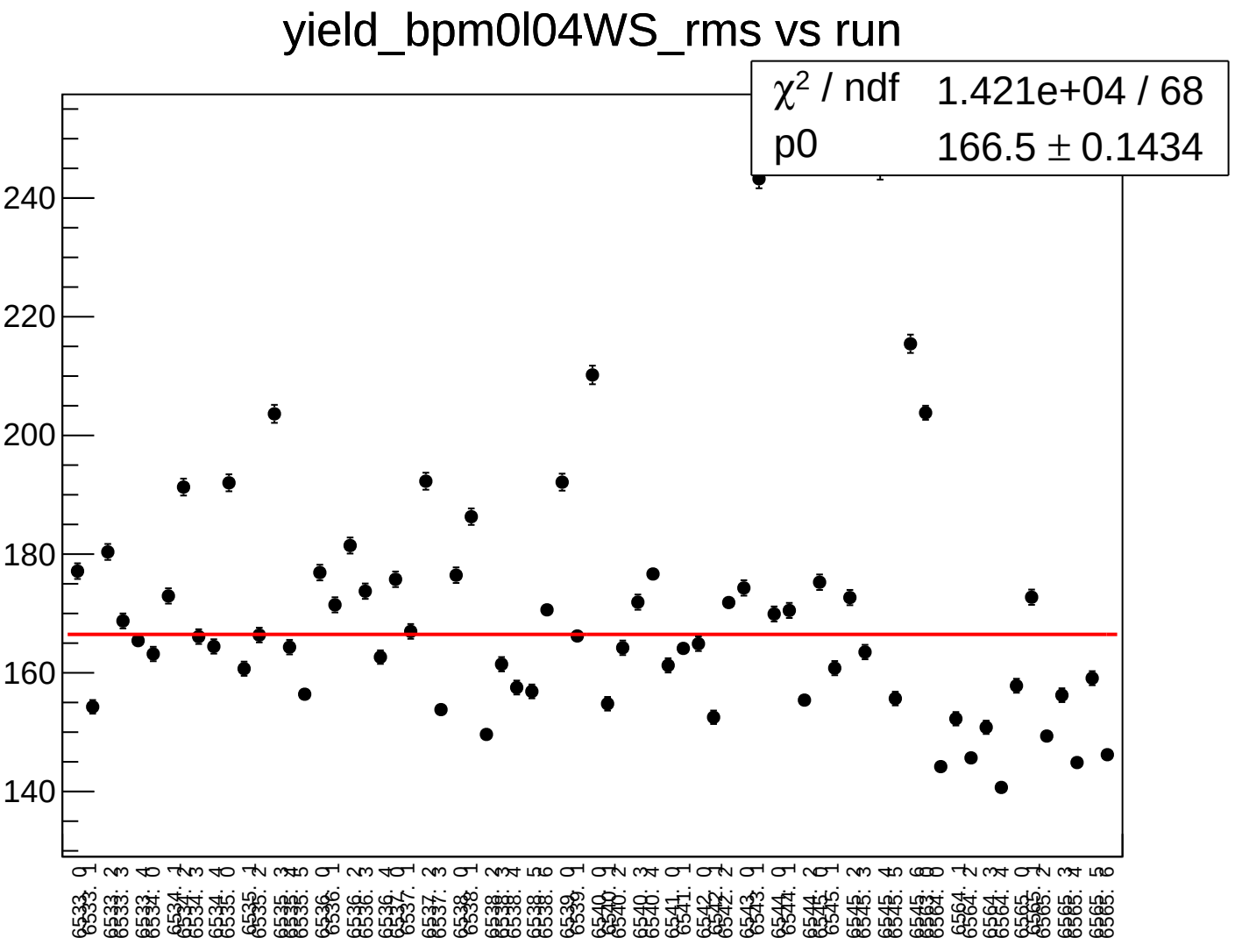

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 9.584e+04 / 68
p0 1.349e+05 ± 0.7437
135
134
133
132
131
130
129
pull
Entries 69
Mean 61.2
Std Dev 18.52
50
0
−50
−100
−150

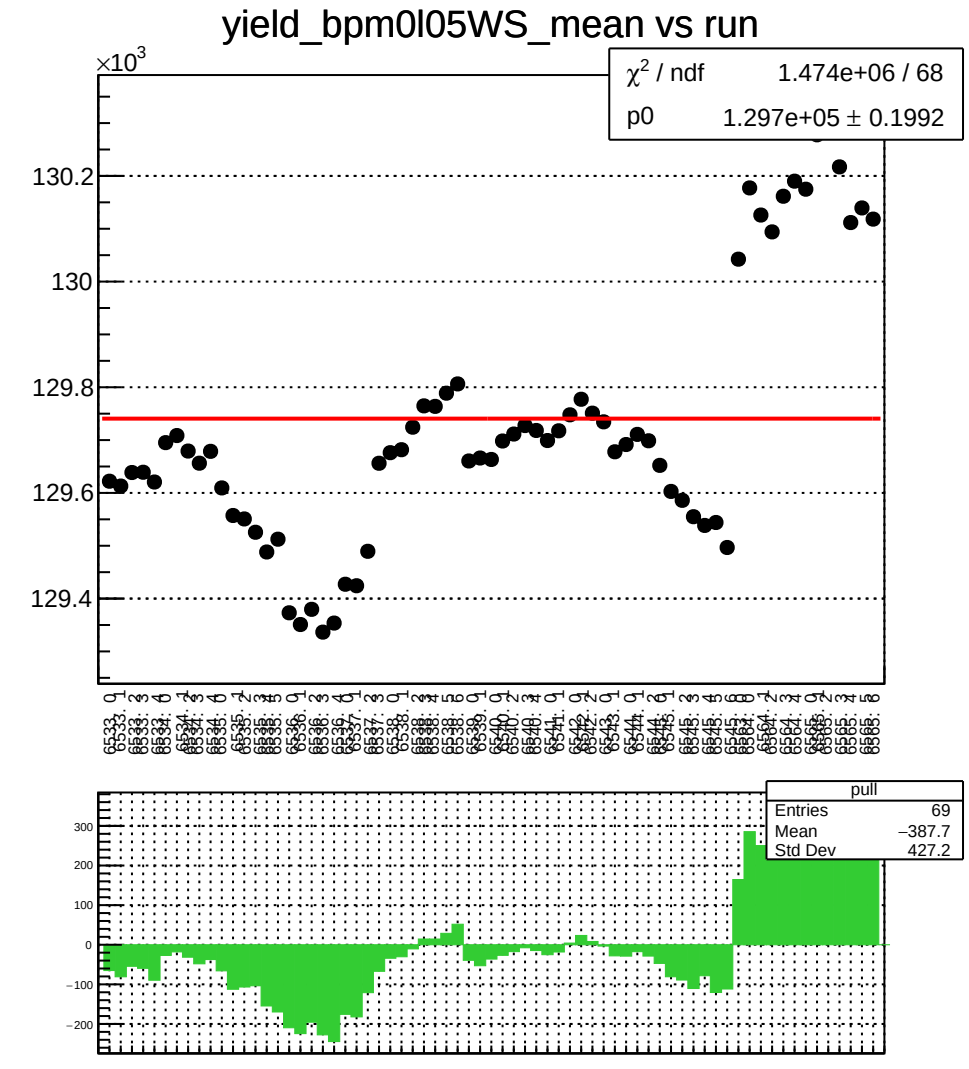

pull1D
Entries 69
Mean −1.163
Std Dev 5.343
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

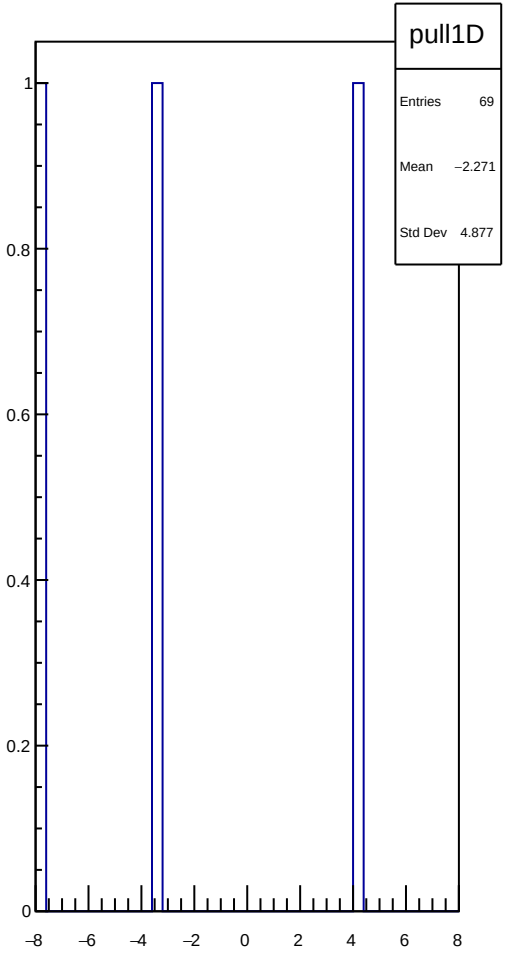

yield_bpm0l03WS_rms vs run
χ² / ndf 3.251e+05 / 68
p0 535.5 ± 0.5259
4000
3500
3000
2500
2000
1500
1000
500

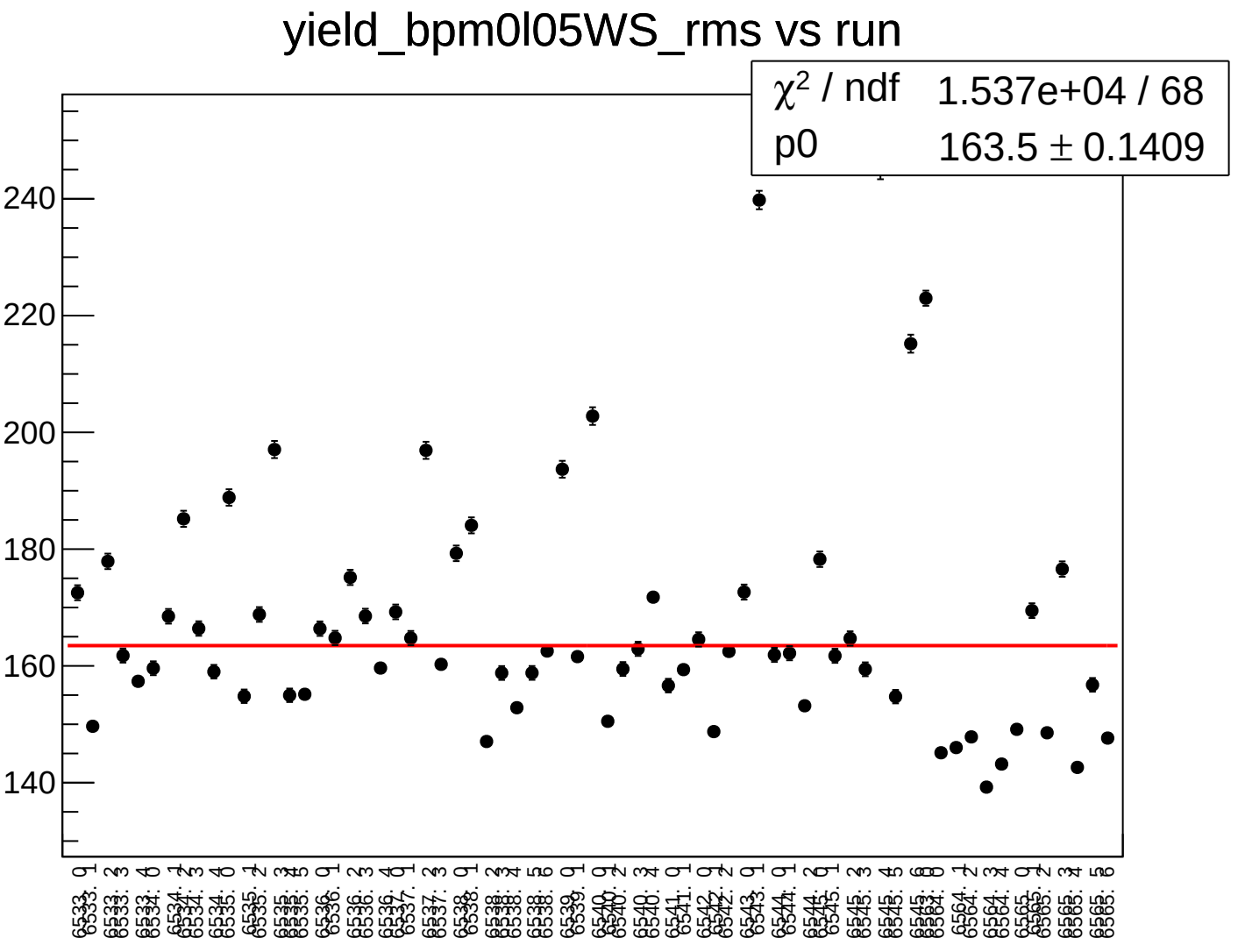

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.602e+05 / 68
p0 1.271e+05 ± 0.2028
127.3
127.2
127.1
127
126.9
126.8
pull
Entries 69
Mean 531.8
Std Dev 505.7
100
50
0
−50
−100
−150

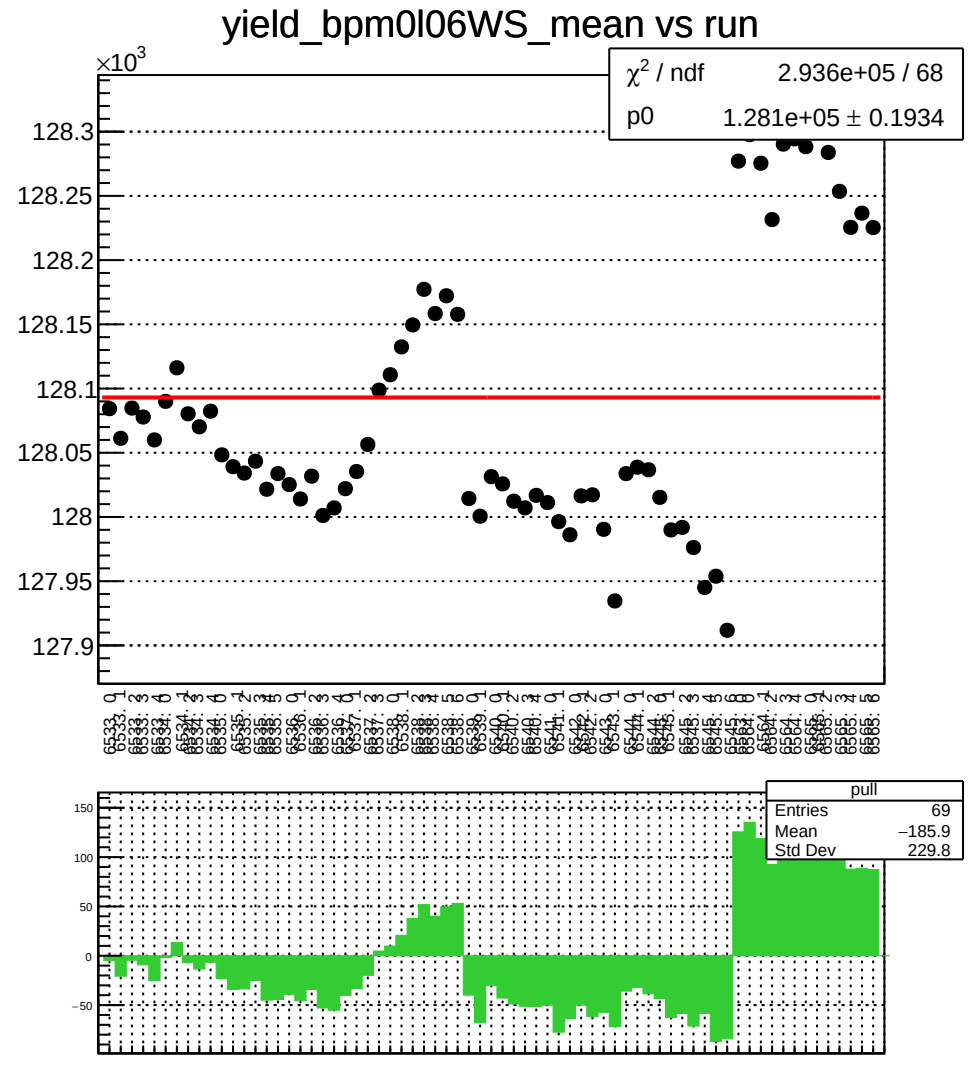

pull1D
Entries 69
Mean −0.7565
Std Dev 3.844
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

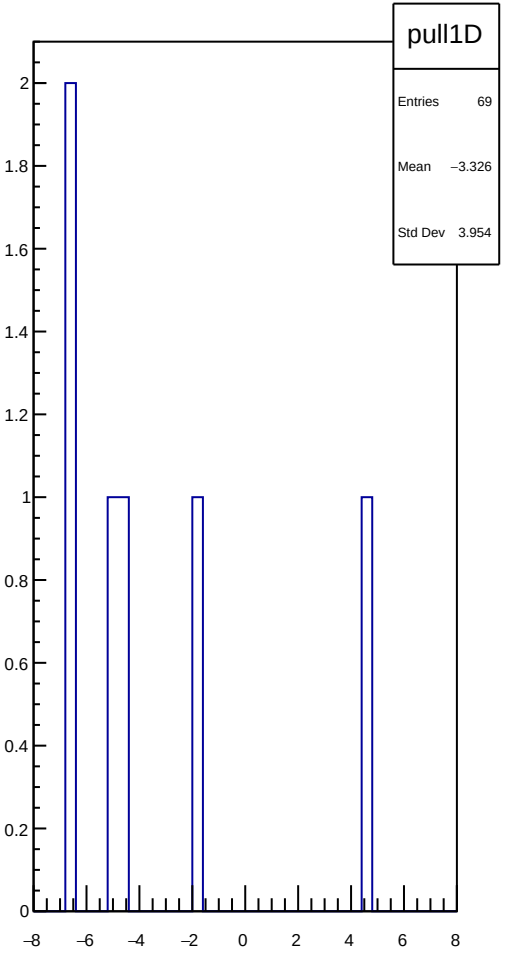

yield_bpm0l04WS_rms vs run
χ² / ndf 1.421e+04 / 68
p0 166.5 ± 0.1434
240
220
200
180
160
140

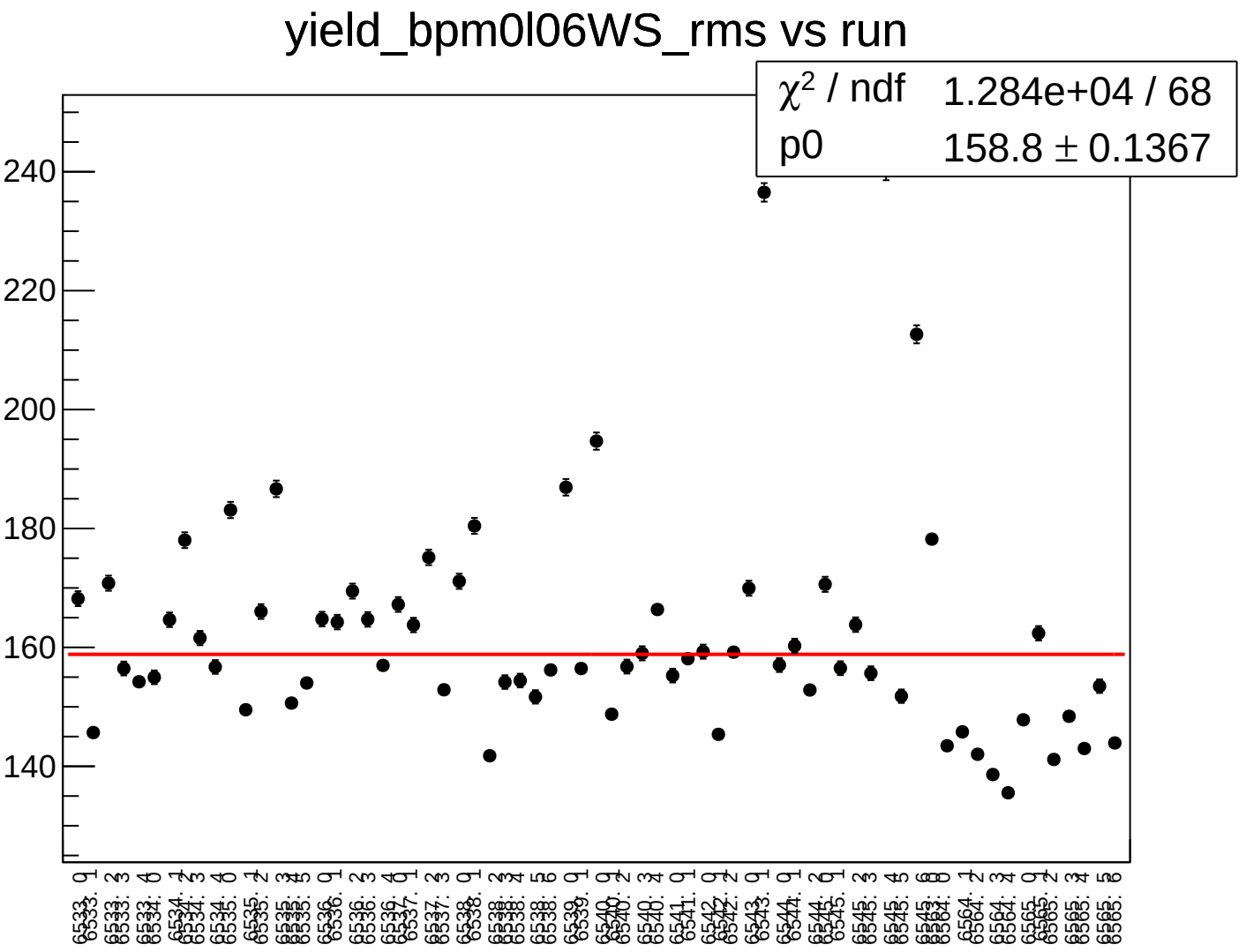

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.474e+06 / 68
p0 1.297e+05 ± 0.1992
130.2
130
129.8
129.6
129.4
pull
Entries 69
Mean −387.7
Std Dev 427.2
300
200
100
0
−100
−200

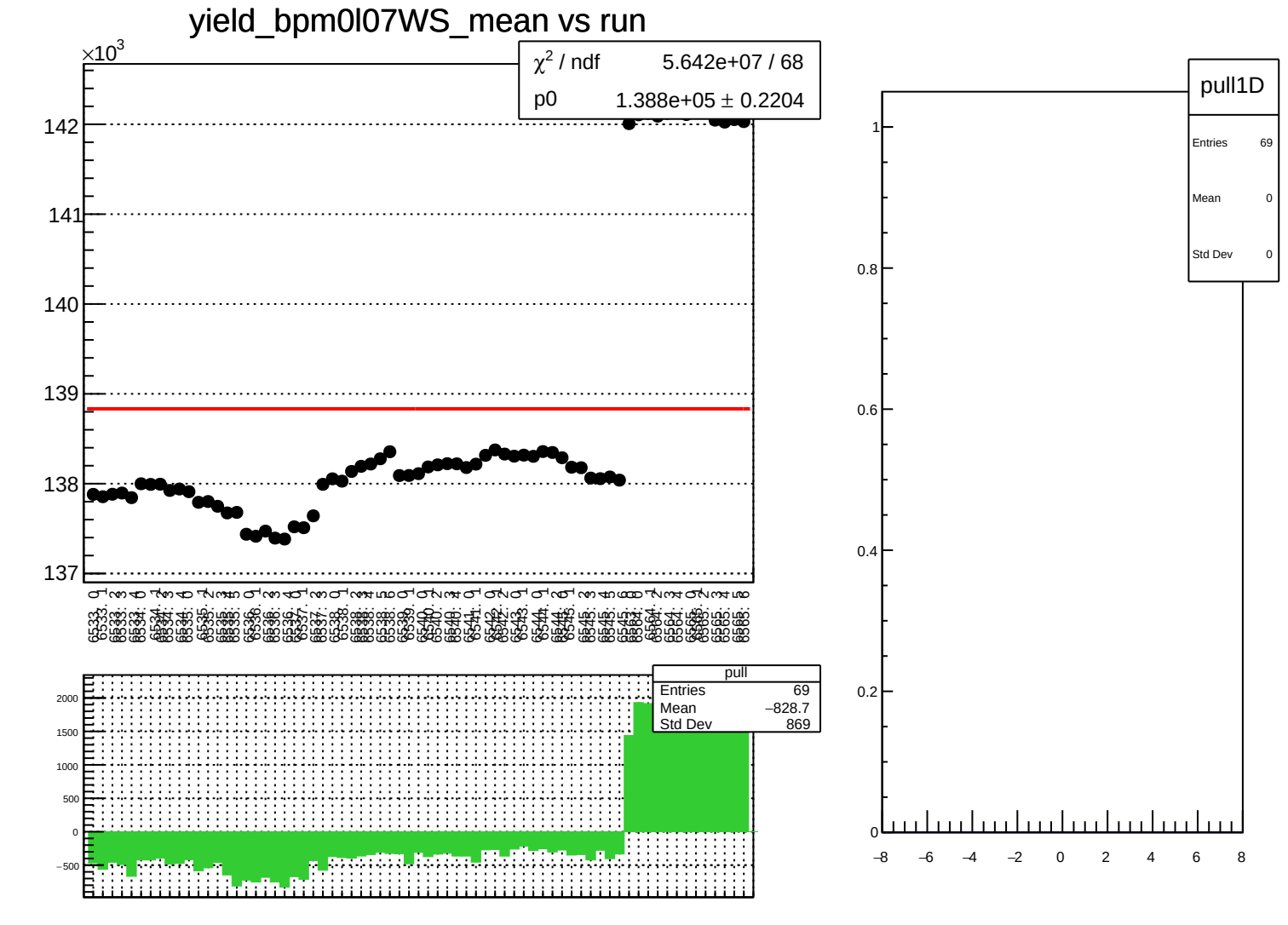

pull1D
Entries 69
Mean −2.271
Std Dev 4.877
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

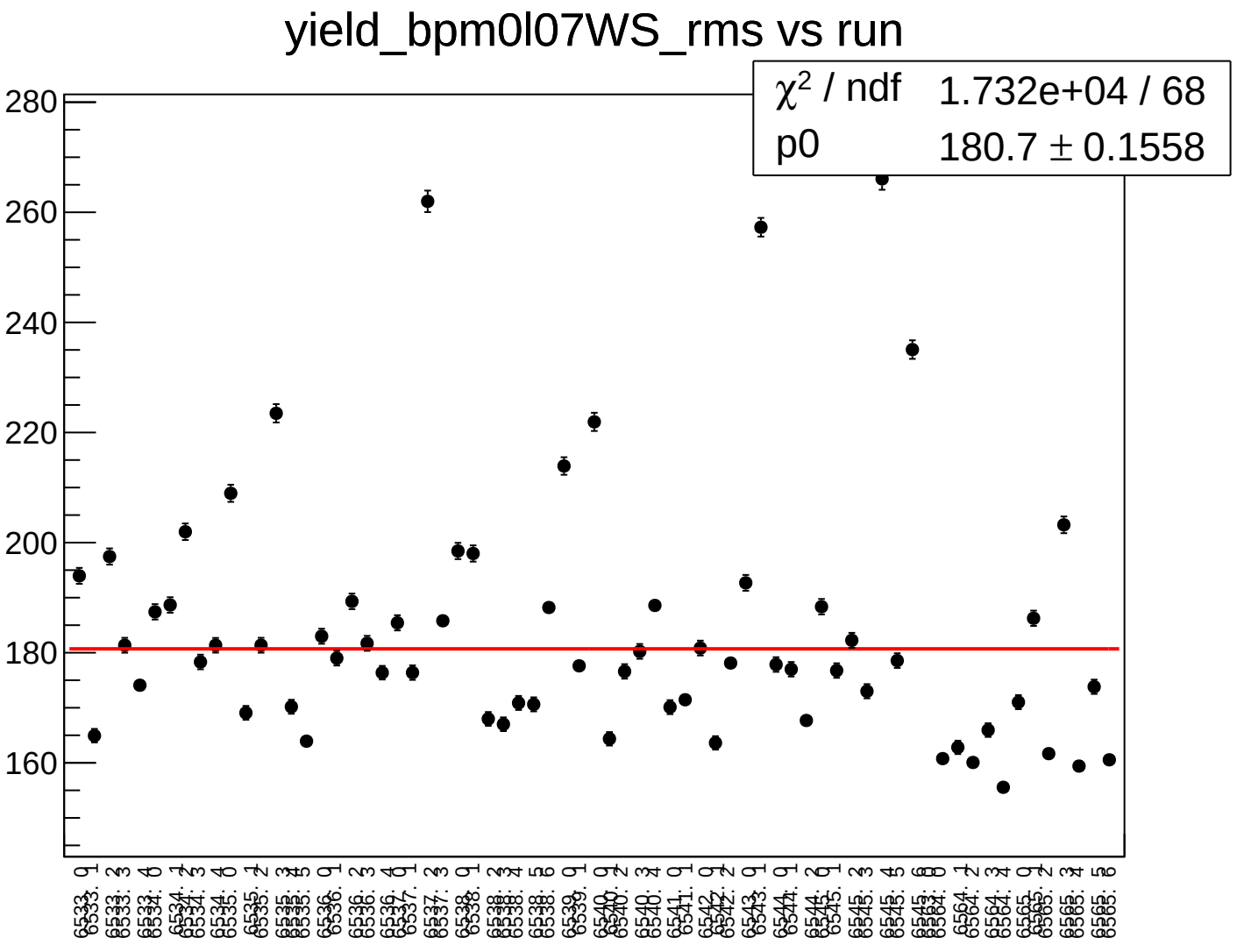

yield_bpm0l05WS_rms vs run
χ² / ndf 1.537e+04 / 68
p0 163.5 ± 0.1409
240
220
200
180
160
140

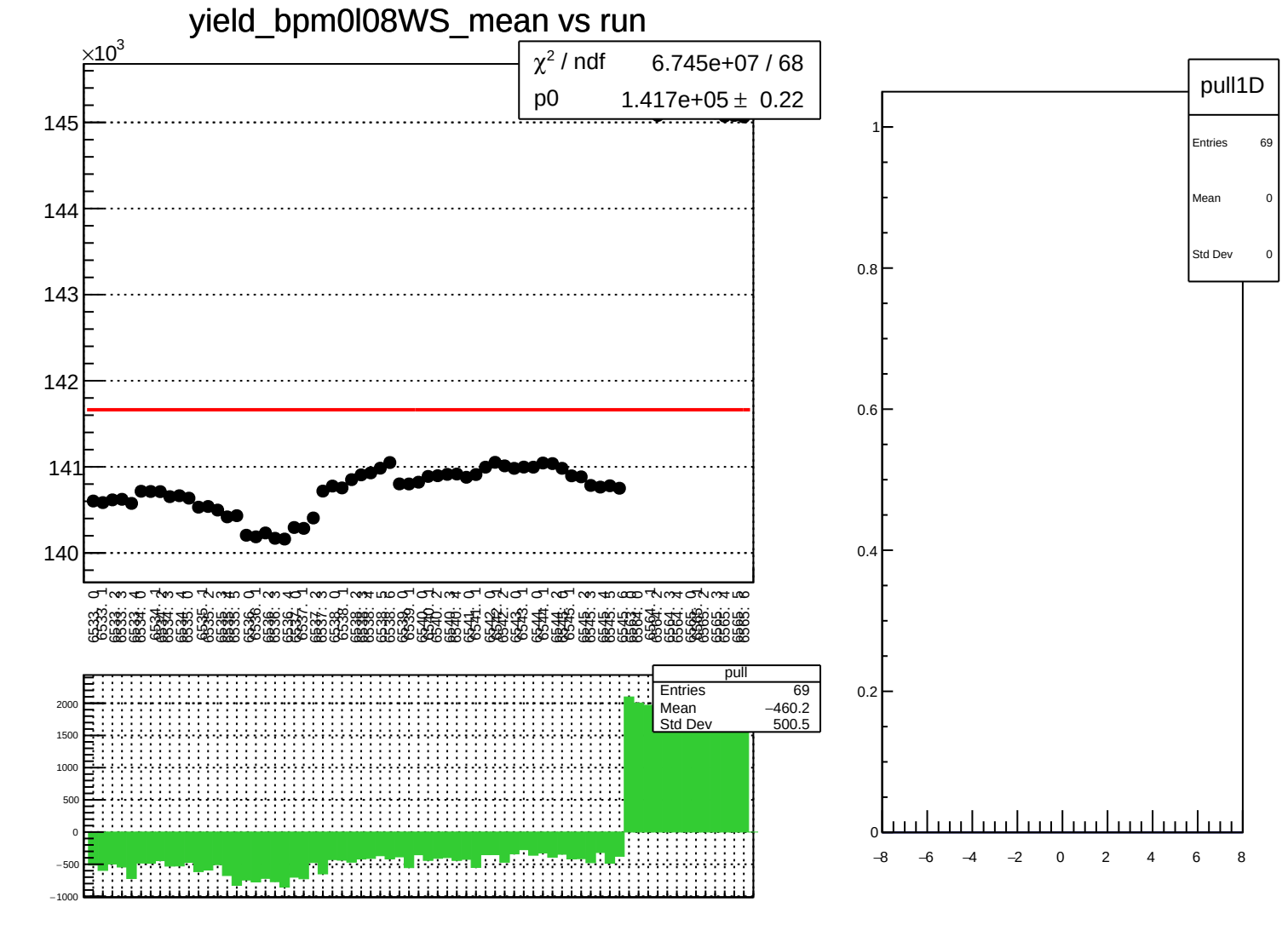

yield_bpm0l06WS_mean vs run
×10^3
χ^2 / ndf 2.936e+05 / 68
p0 1.281e+05 ± 0.1934
128.3
128.25
128.2
128.15
128.1
128.05
128
127.95
127.9
pull
Entries 69
Mean −185.9
Std Dev 229.8
150
100
50
0
−50

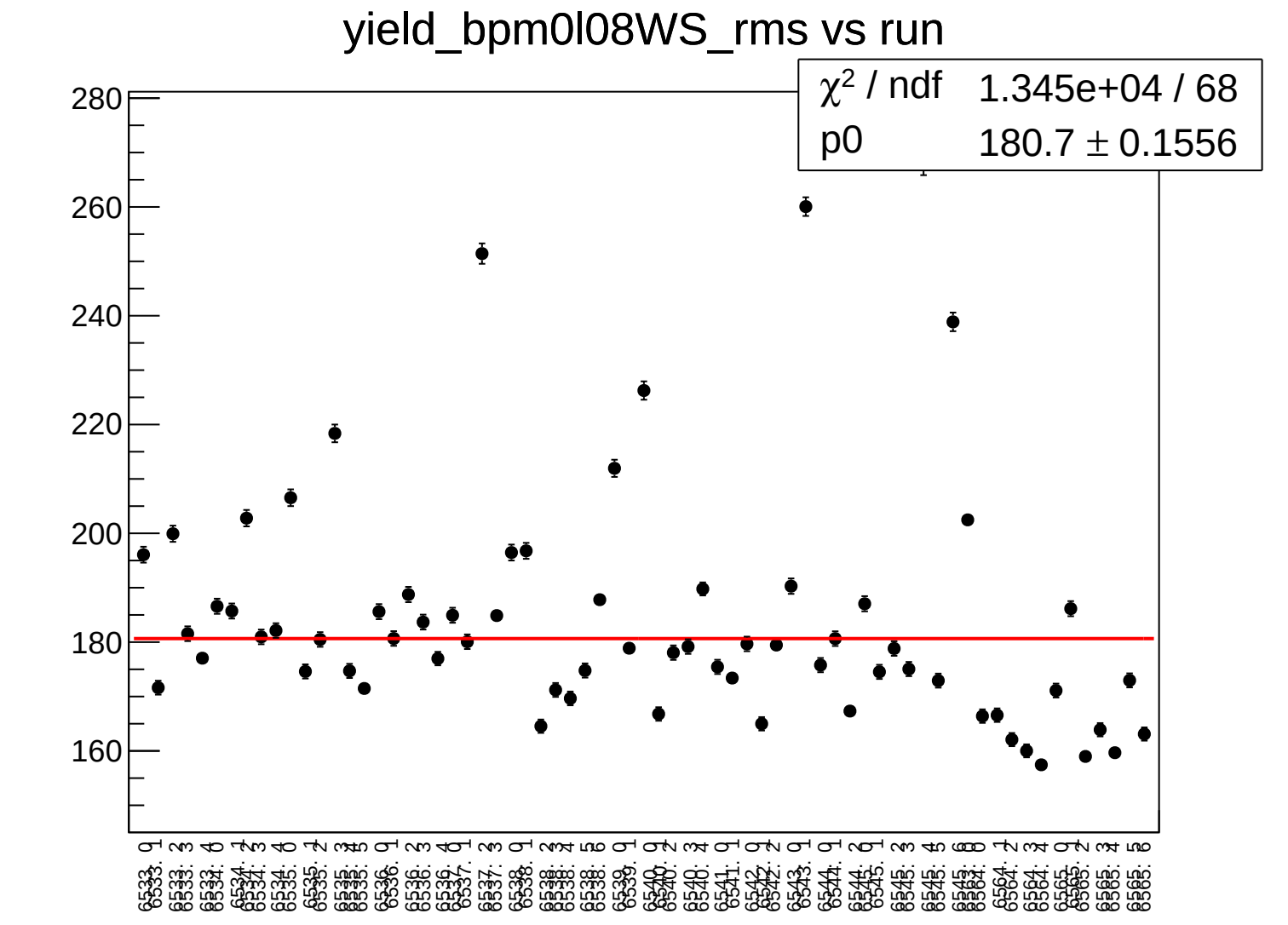

pull1D
Entries 69
Mean −3.326
Std Dev 3.954
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

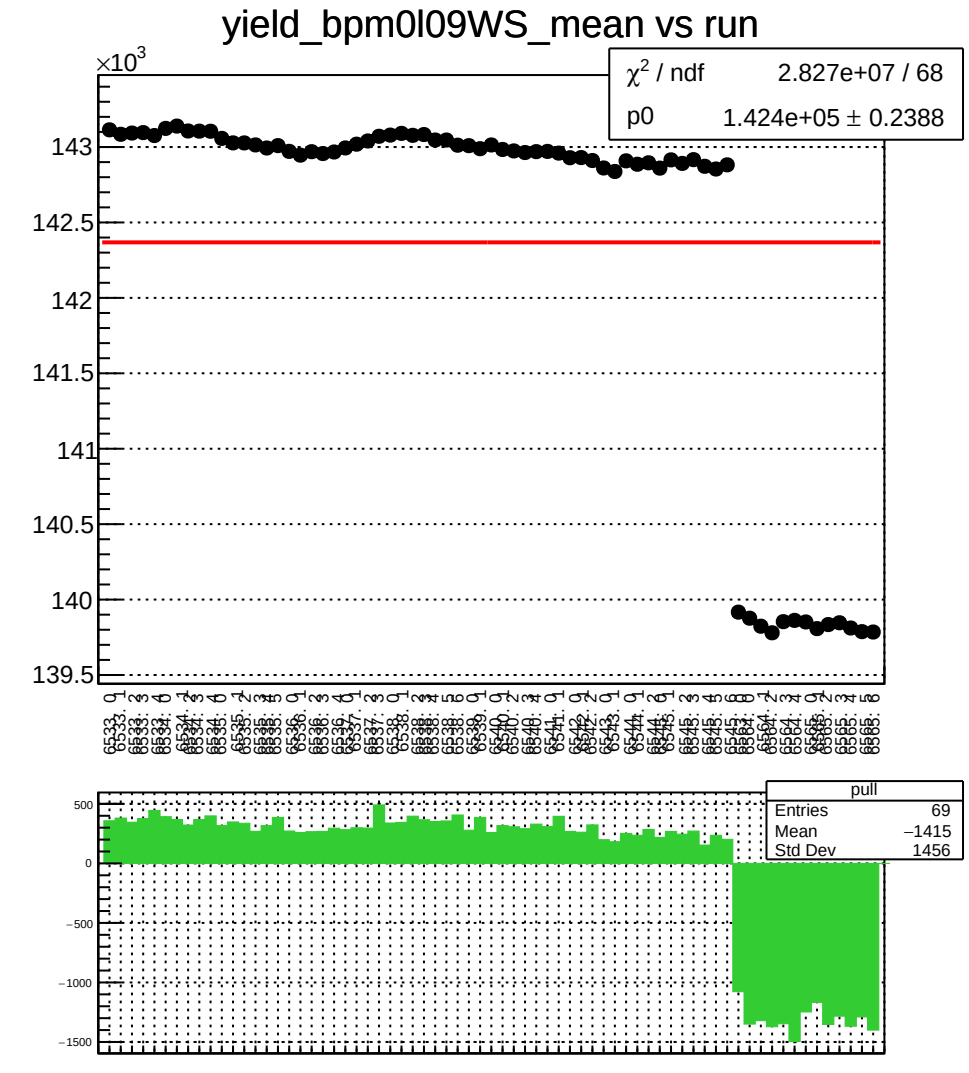

yield_bpm0l06WS_rms vs run
χ² / ndf 1.284e+04 / 68
p0 158.8 ± 0.1367
240
220
200
180
160
140

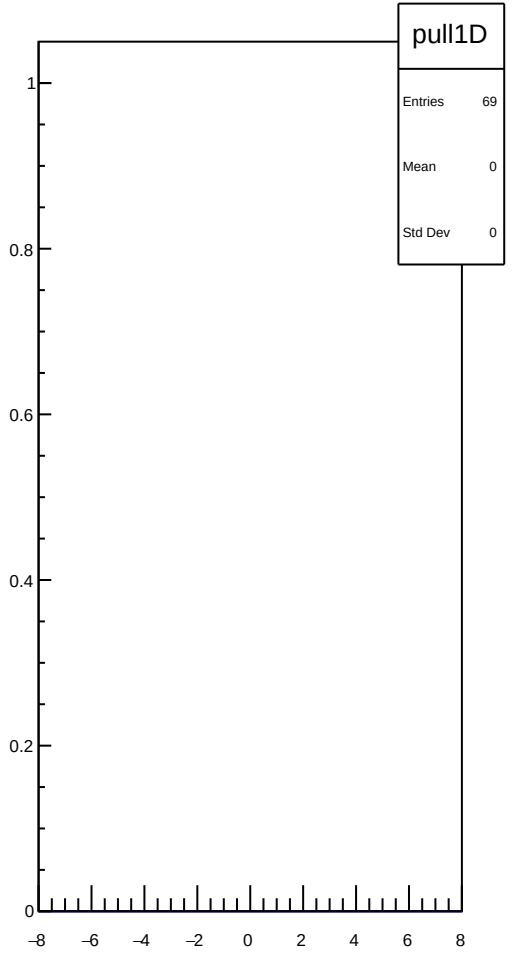

yield_bpm0l07WS_mean vs run
χ² / ndf 5.642e+07 / 68
p0 1.388e+05 ± 0.2204
×10³
142
141
140
139
138
137
pull
Entries 69
Mean −828.7
Std Dev 869
2000
1500
1000
500
0
−500
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

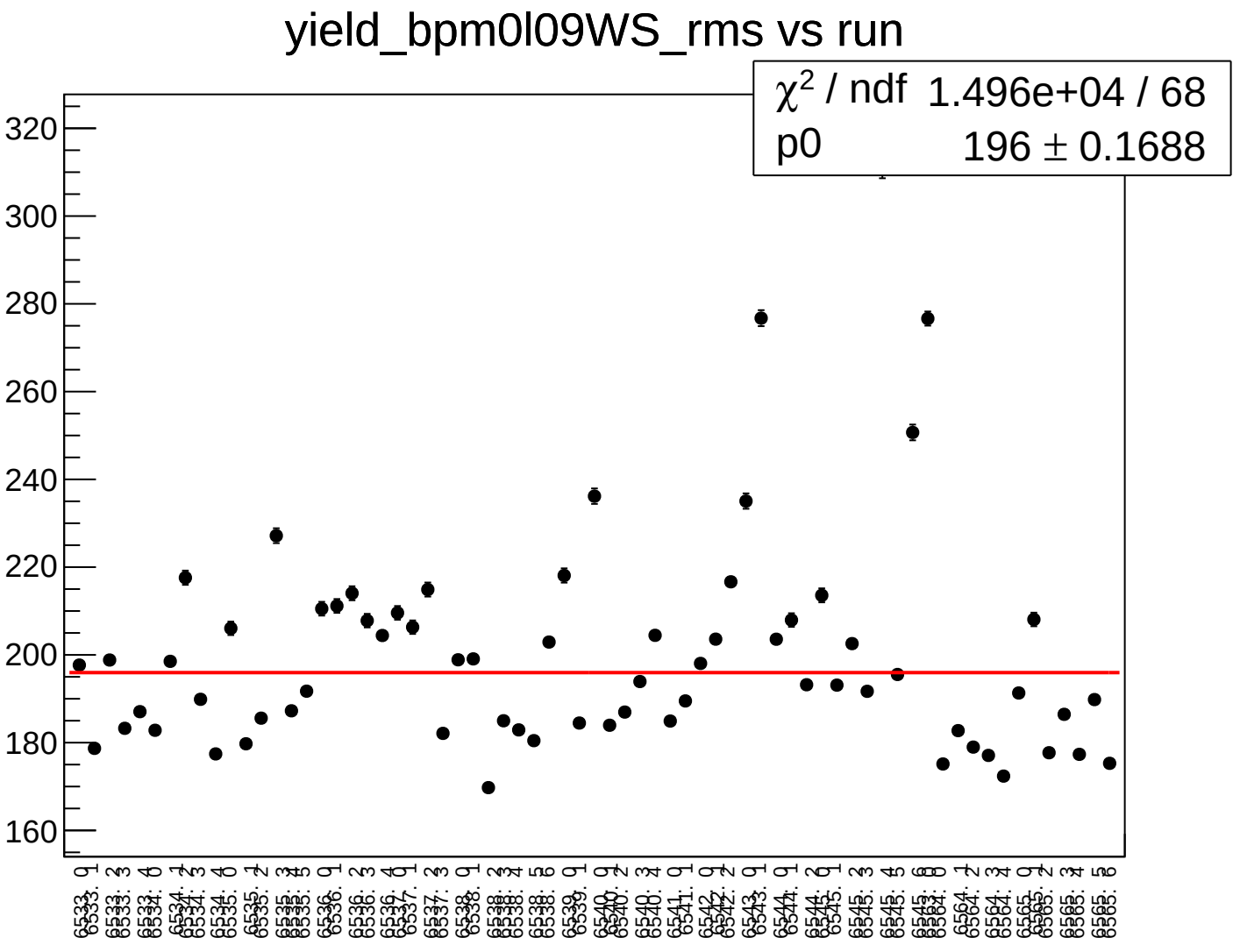

yield_bpm0l07WS_rms vs run
χ² / ndf 1.732e+04 / 68
p0 180.7 ± 0.1558
280
260
240
220
200
180
160

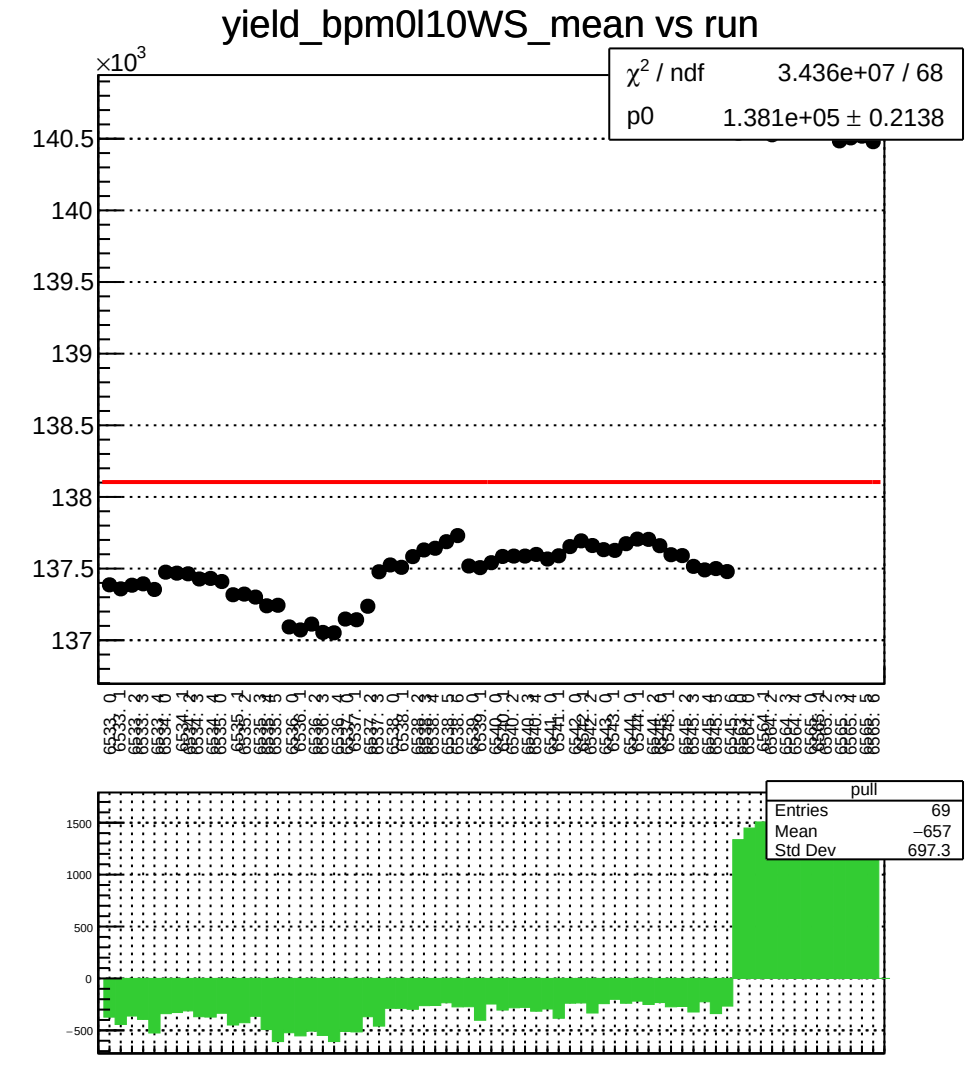

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 6.745e+07 / 68
p0 1.417e+05 ± 0.22
145
144
143
142
141
140
pull
Entries 69
Mean −460.2
Std Dev 500.5
2000
1500
1000
500
0
−500
−1000
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

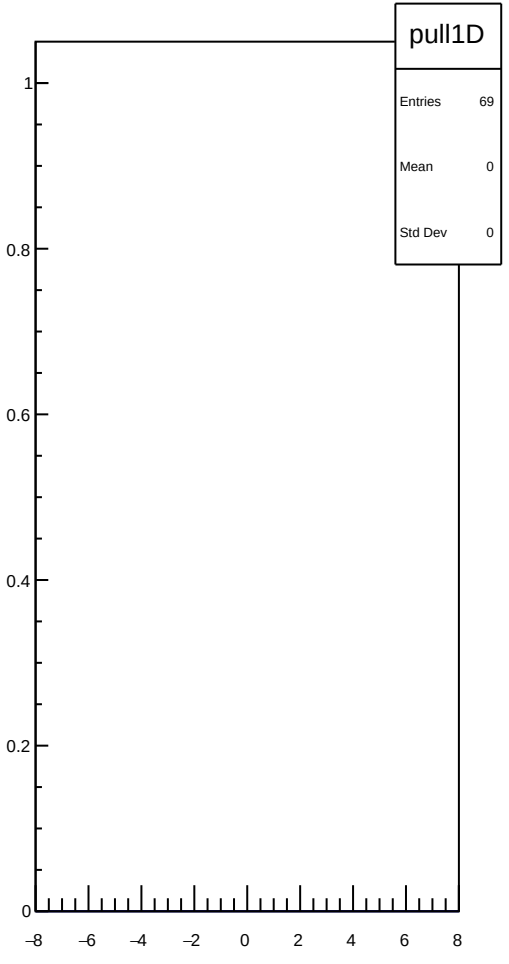

yield_bpm0l08WS_rms vs run
$\chi^2$ / ndf 1.345e+04 / 68
p0 180.7 ± 0.1556
280
260
240
220
200
180
160

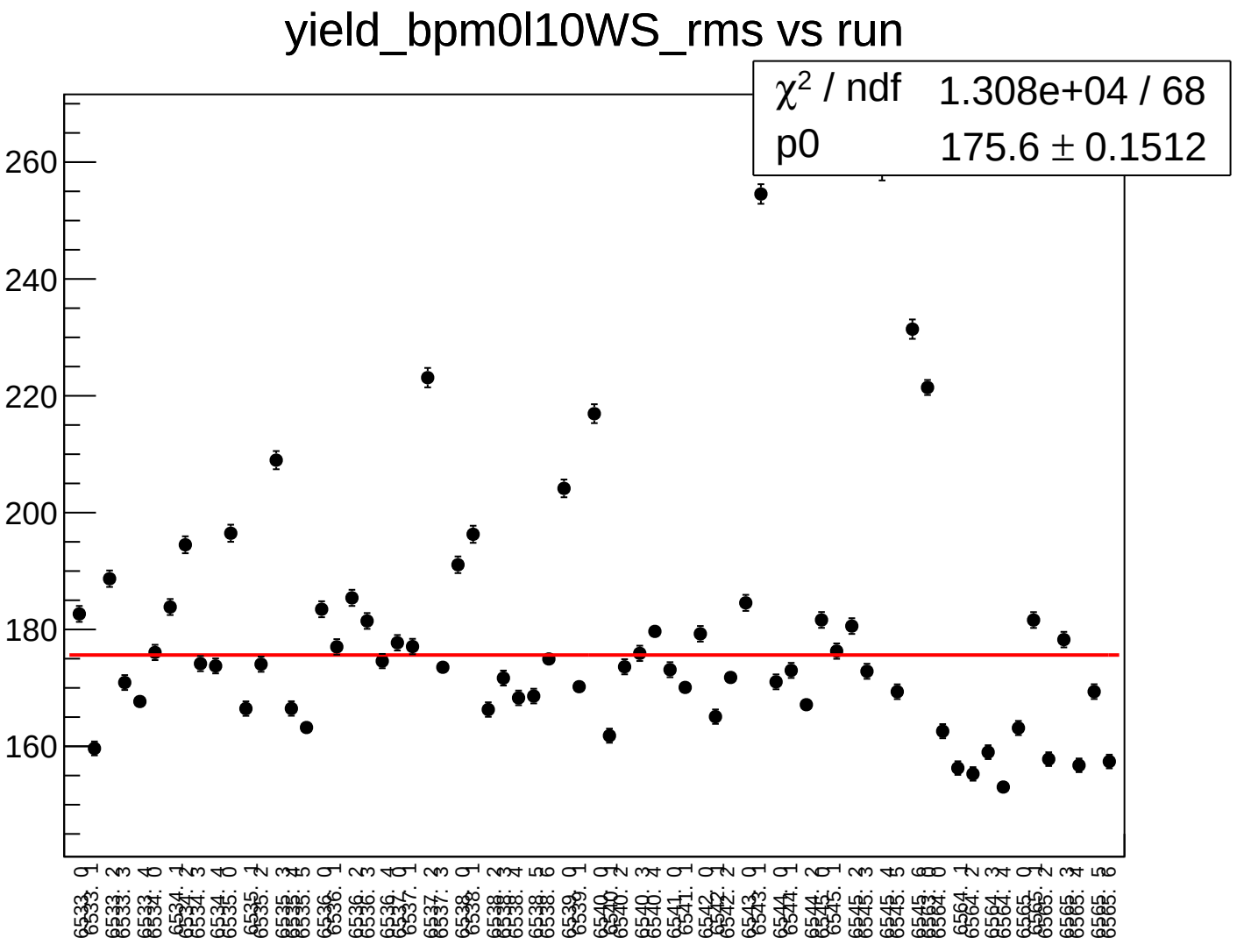

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.827e+07 / 68
p0 1.424e+05 ± 0.2388
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 69
Mean −1415
Std Dev 1456
500
0
−500
−1000
−1500

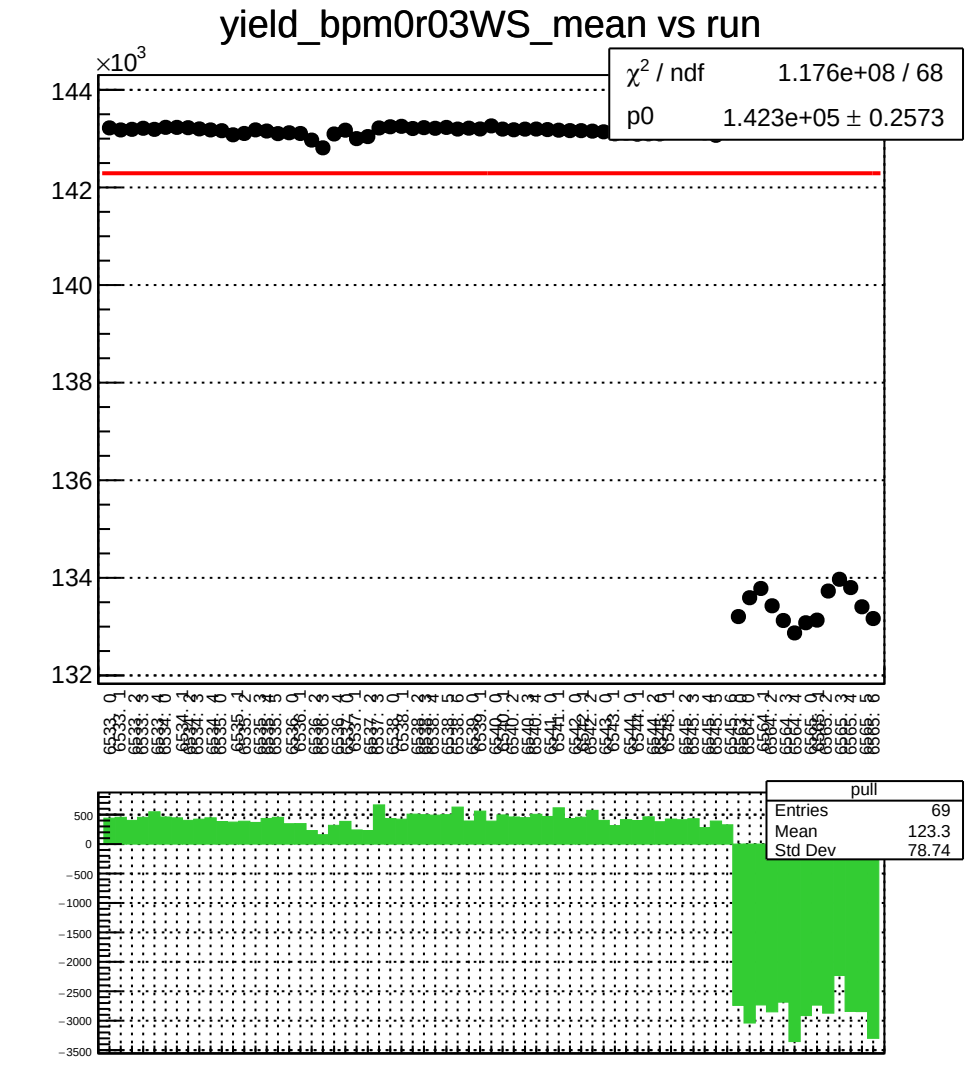

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

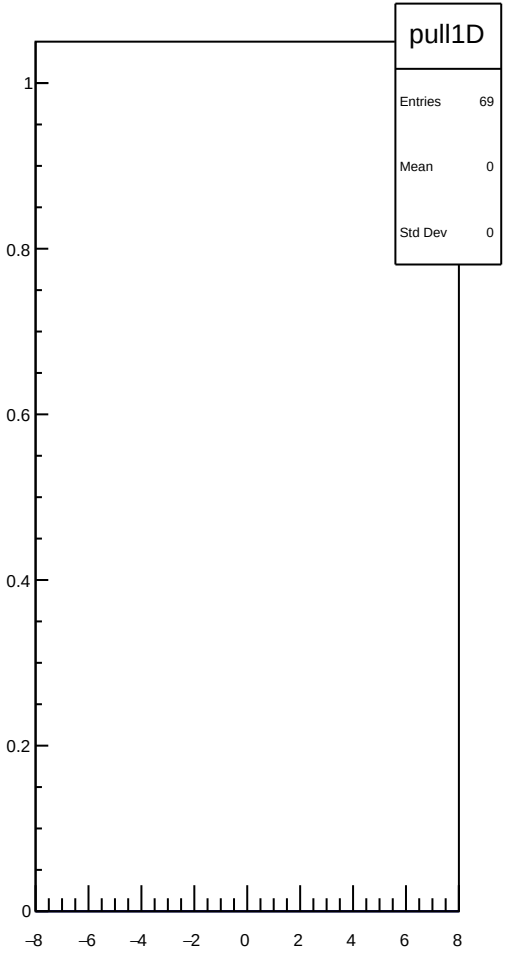

yield_bpm0l09WS_rms vs run
χ² / ndf 1.496e+04 / 68
p0 196 ± 0.1688
320
300
280
260
240
220
200
180
160

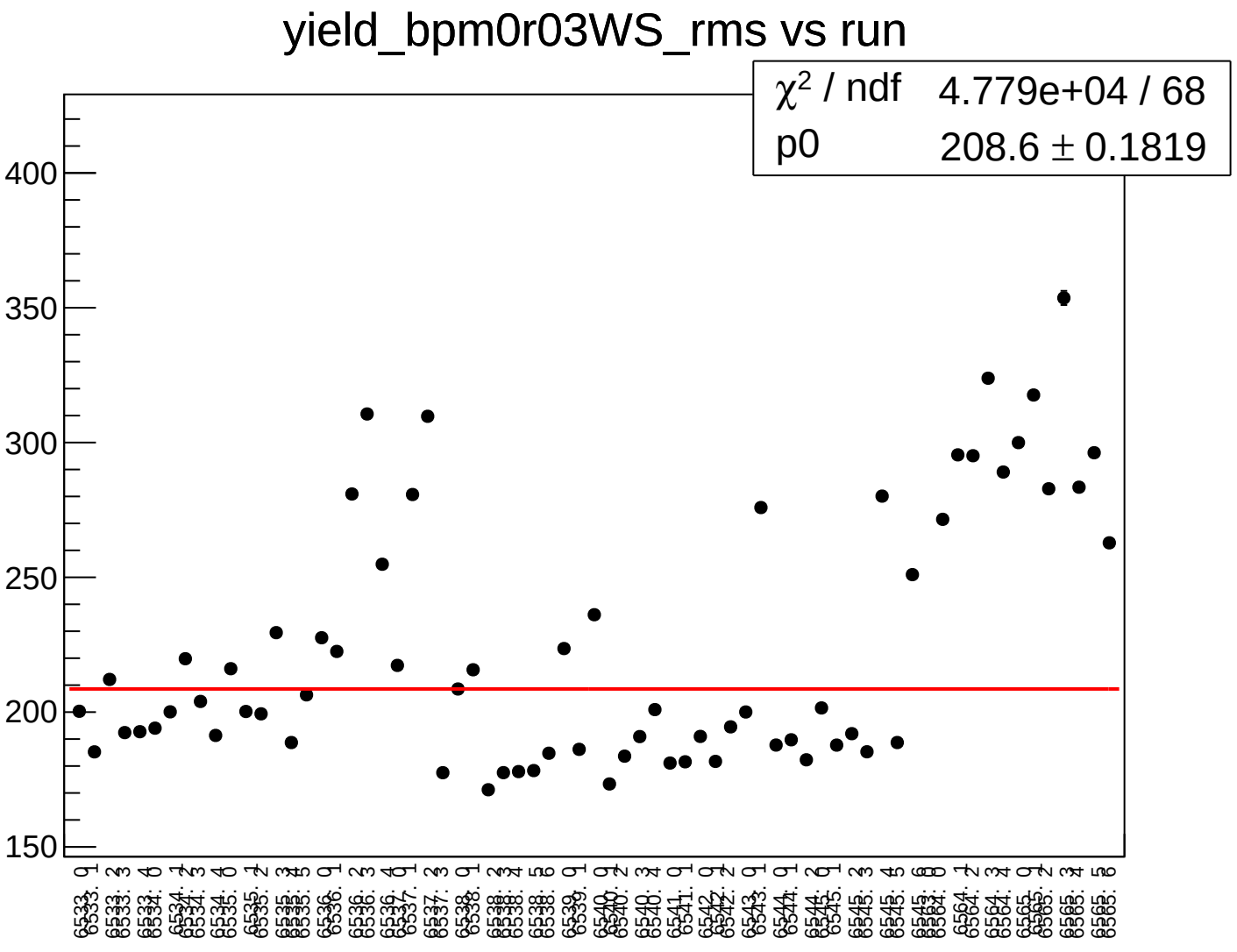

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 3.436e+07 / 68
p0 1.381e+05 ± 0.2138
140.5
140
139.5
139
138.5
138
137.5
137
pull
Entries 69
Mean −657
Std Dev 697.3
1500
1000
500
0
−500

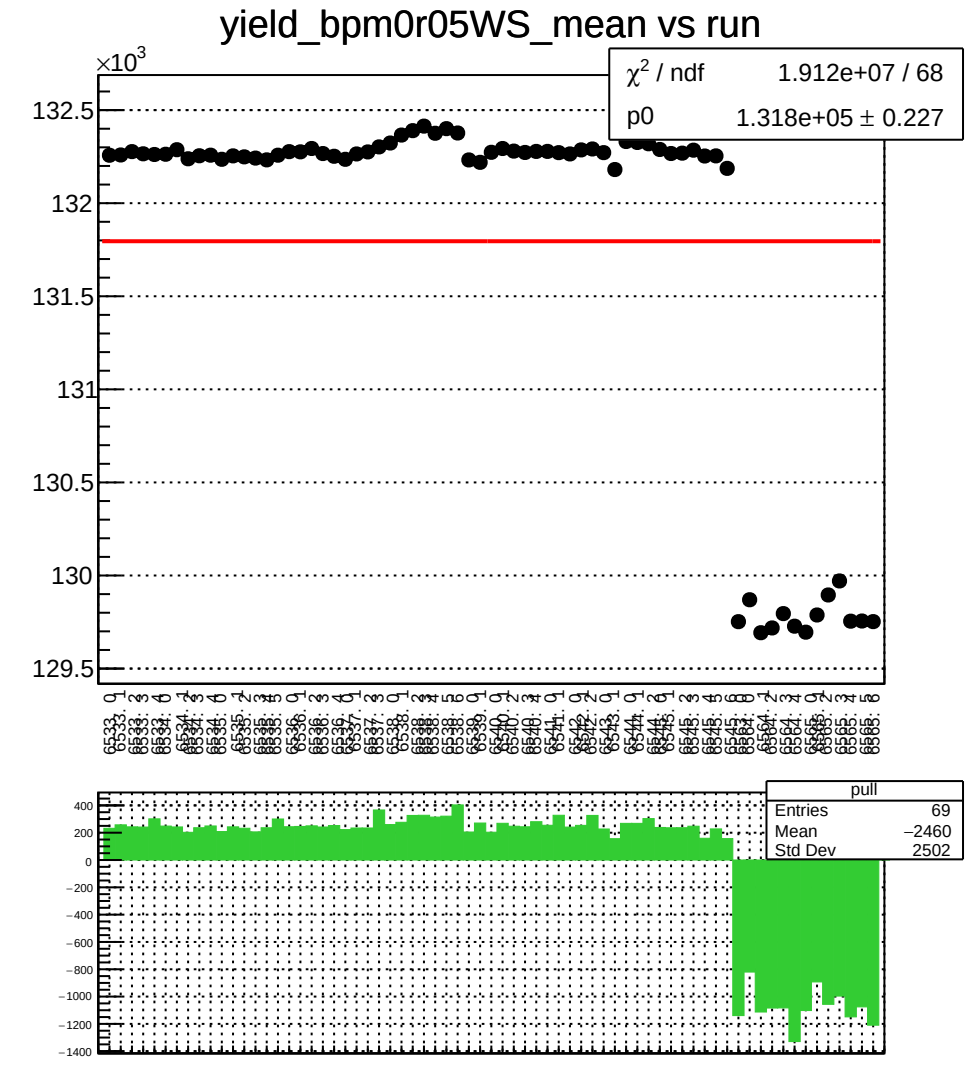

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

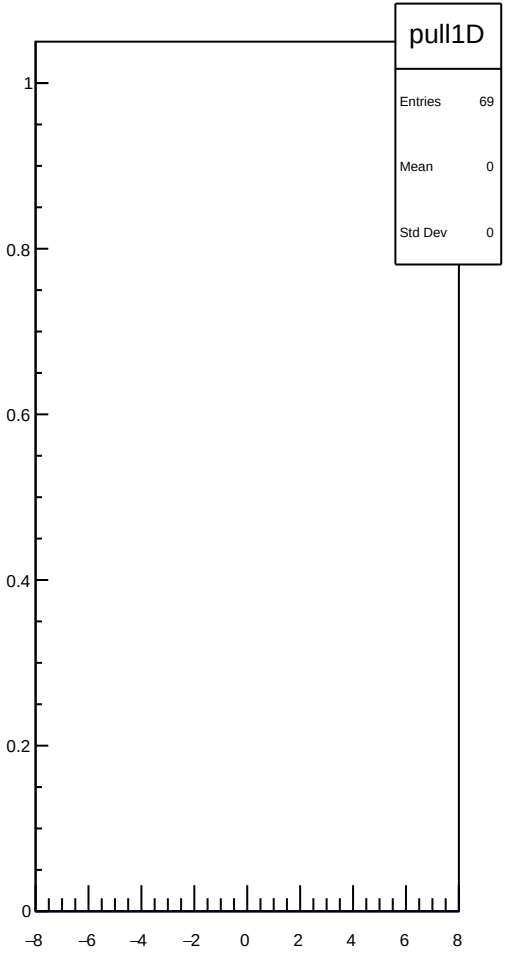

yield_bpm0l10WS_rms vs run
χ² / ndf 1.308e+04 / 68
p0 175.6 ± 0.1512
260
240
220
200
180
160

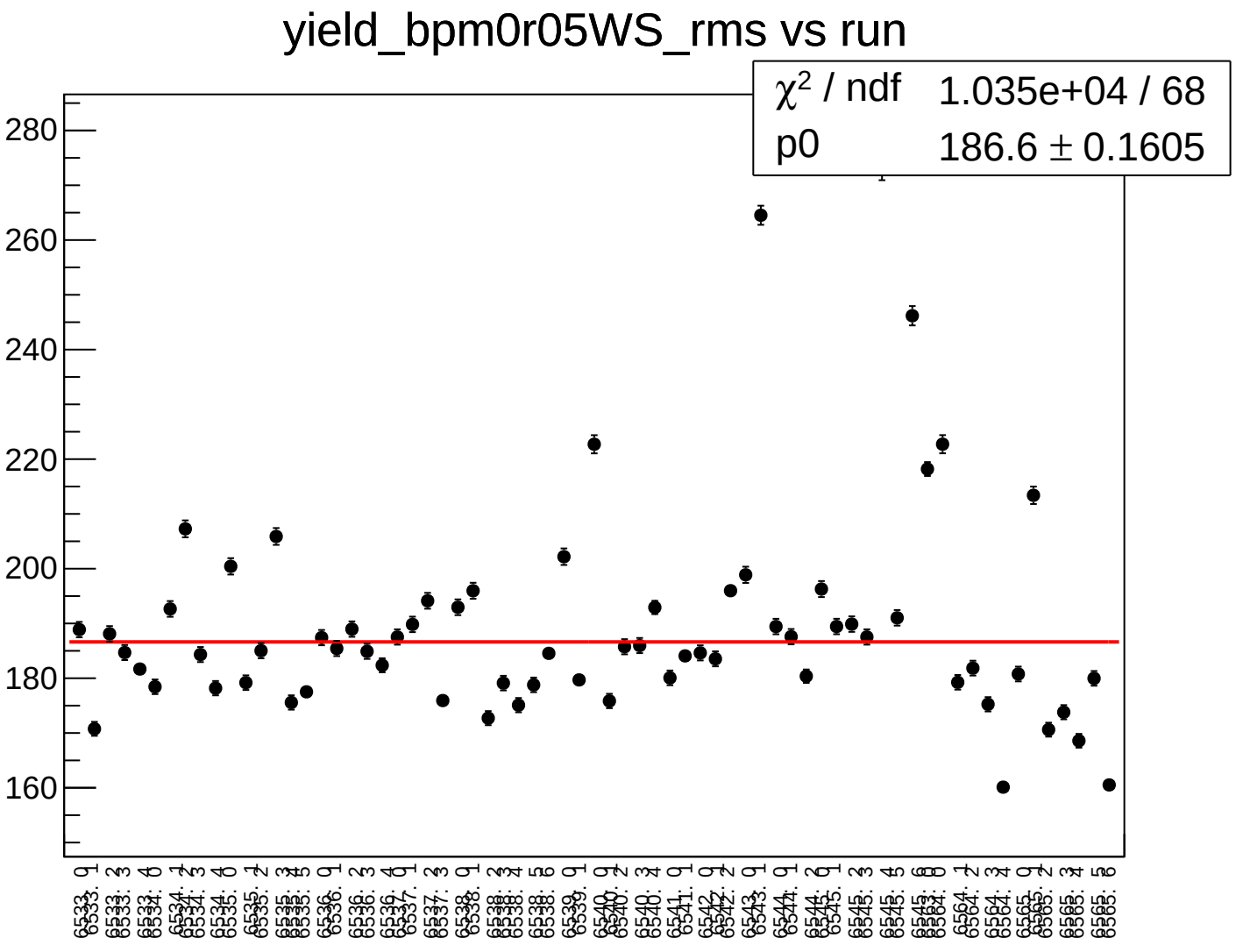

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.176e+08 / 68
p0 1.423e+05 ± 0.2573
144
142
140
138
136
134
132
pull
Entries 69
Mean 123.3
Std Dev 78.74
500
0
−500
−1000
−1500
−2000
−2500
−3000
−3500

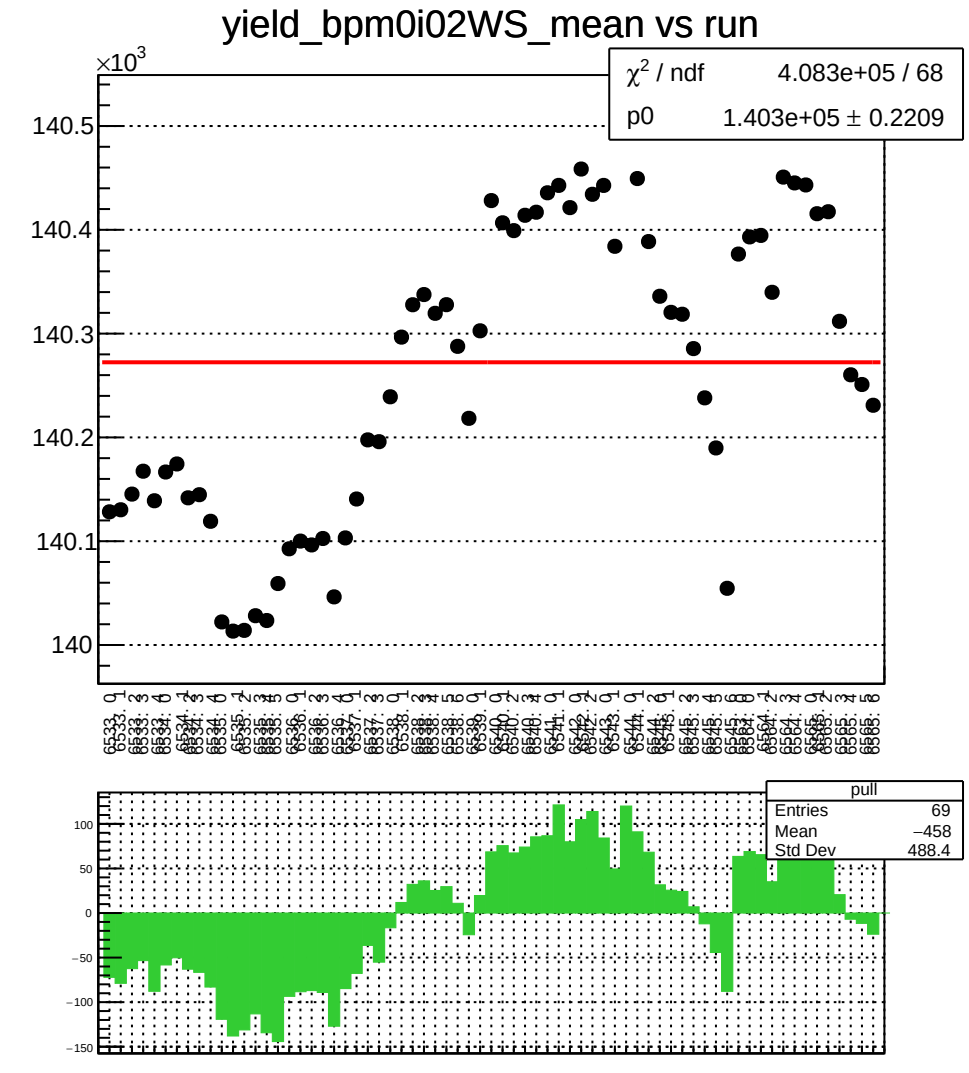

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

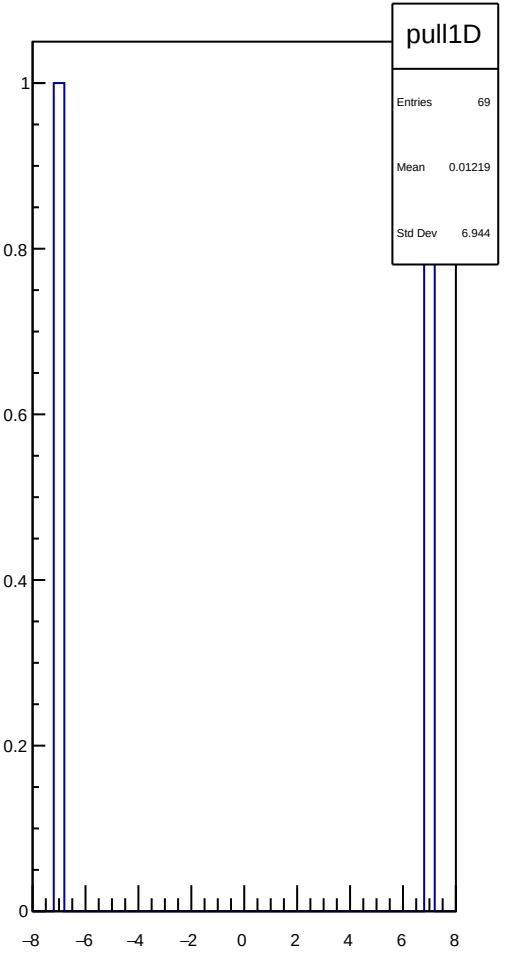

yield_bpm0r03WS_rms vs run
χ² / ndf 4.779e+04 / 68
p0 208.6 ± 0.1819
400
350
300
250
200
150

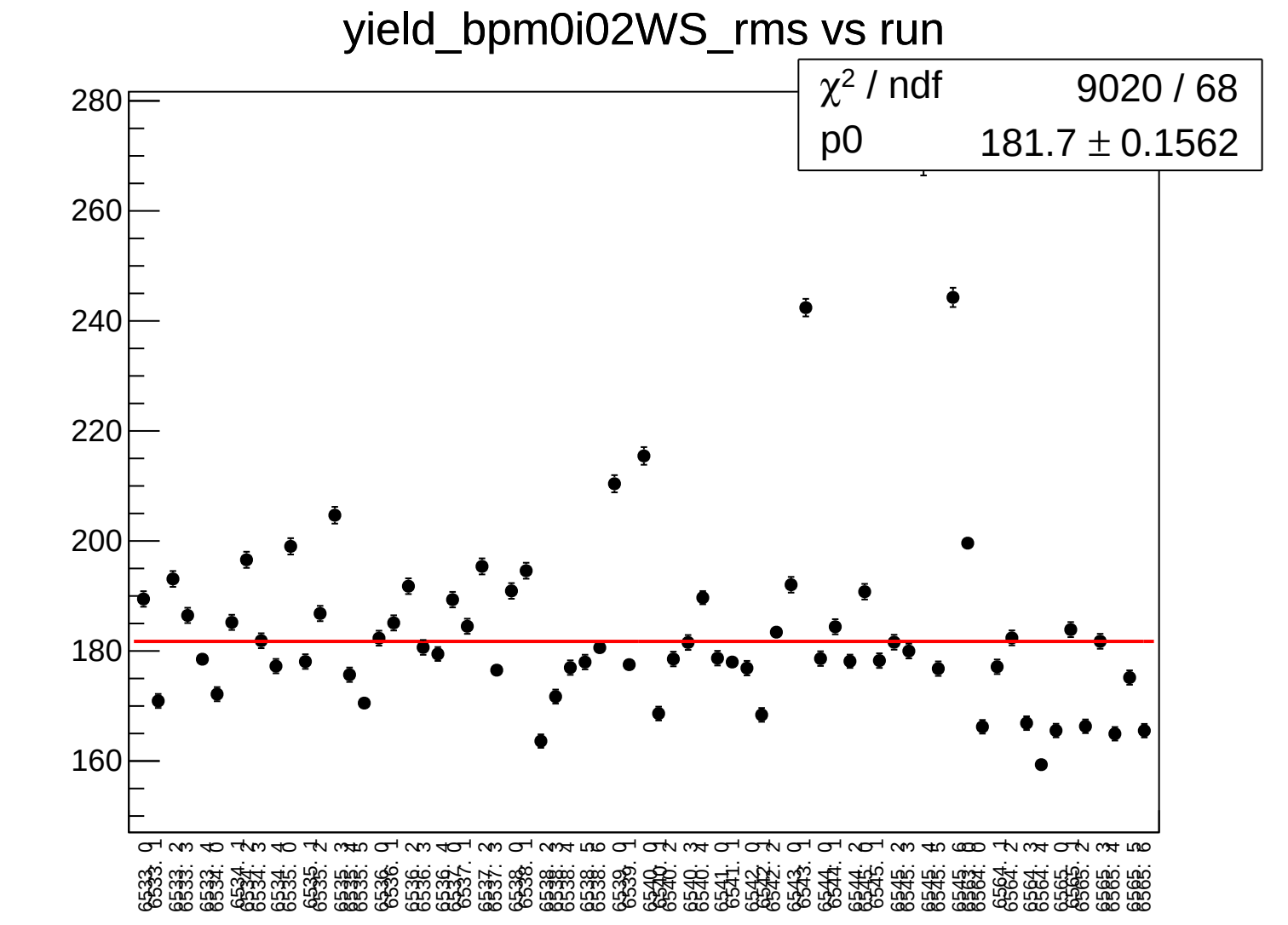

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.912e+07 / 68
p0 1.318e+05 ± 0.227
132.5
132
131.5
131
130.5
130
129.5
pull
Entries 69
Mean −2460
Std Dev 2502
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

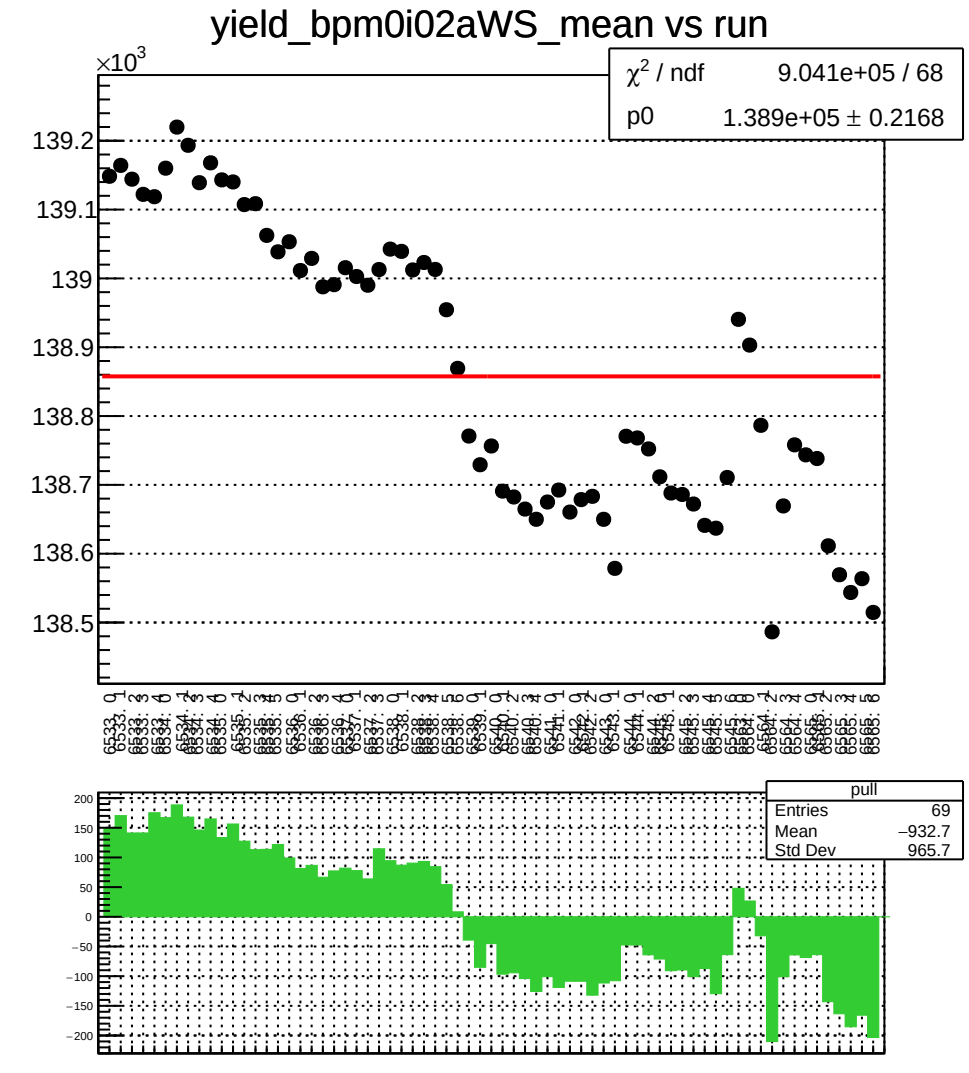

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

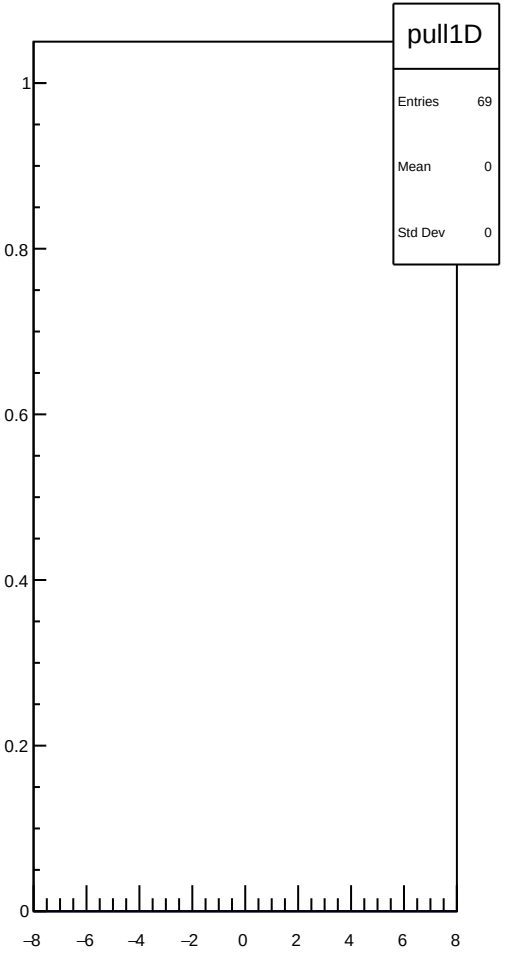

yield_bpm0r05WS_rms vs run
$\chi^2$ / ndf 1.035e+04 / 68
p0 186.6 ± 0.1605
280
260
240
220
200
180
160

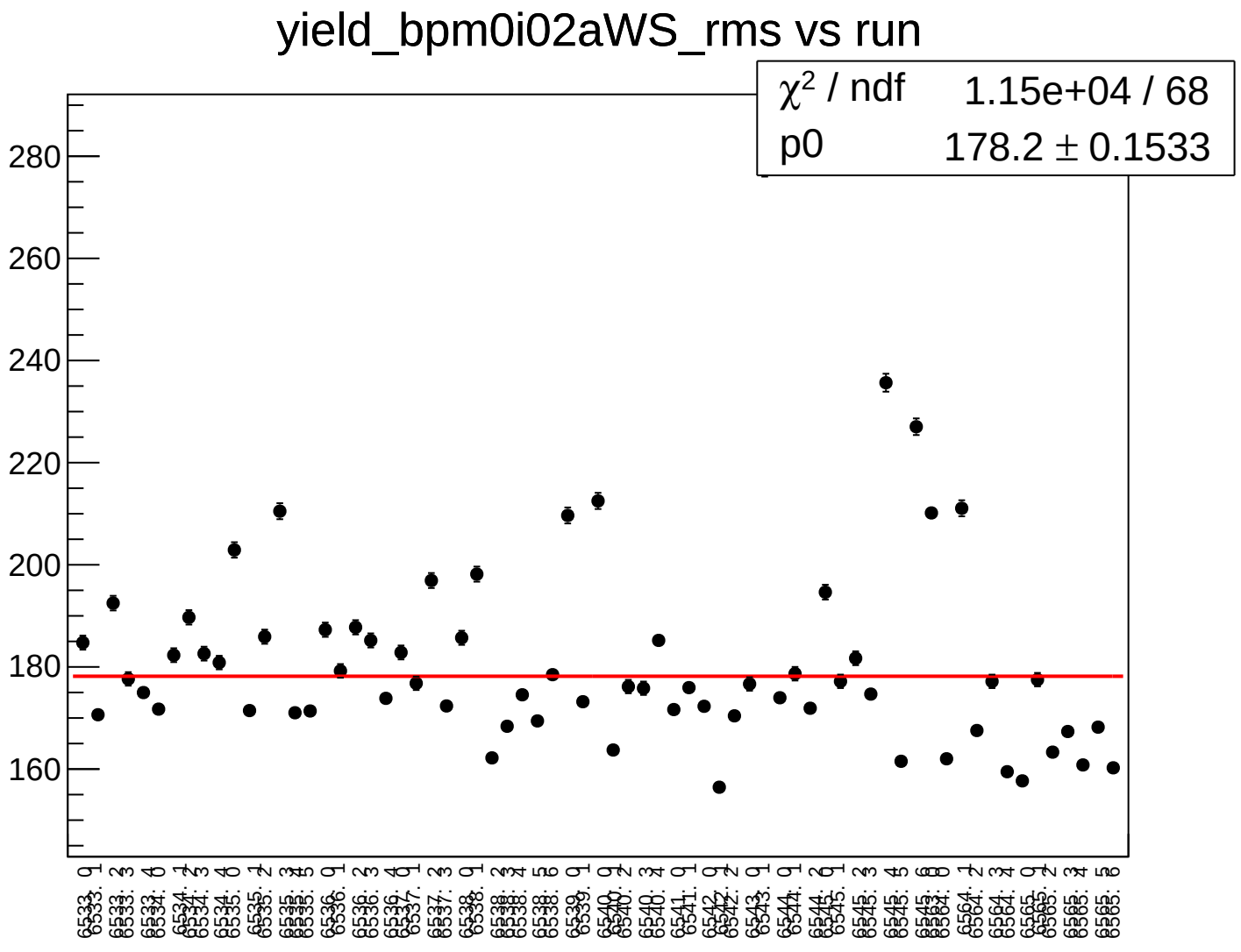

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.083e+05 / 68
p0 1.403e+05 ± 0.2209
140.5
140.4
140.3
140.2
140.1
140
pull
Entries 69
Mean −458
Std Dev 488.4
100
50
0
−50
−100
−150

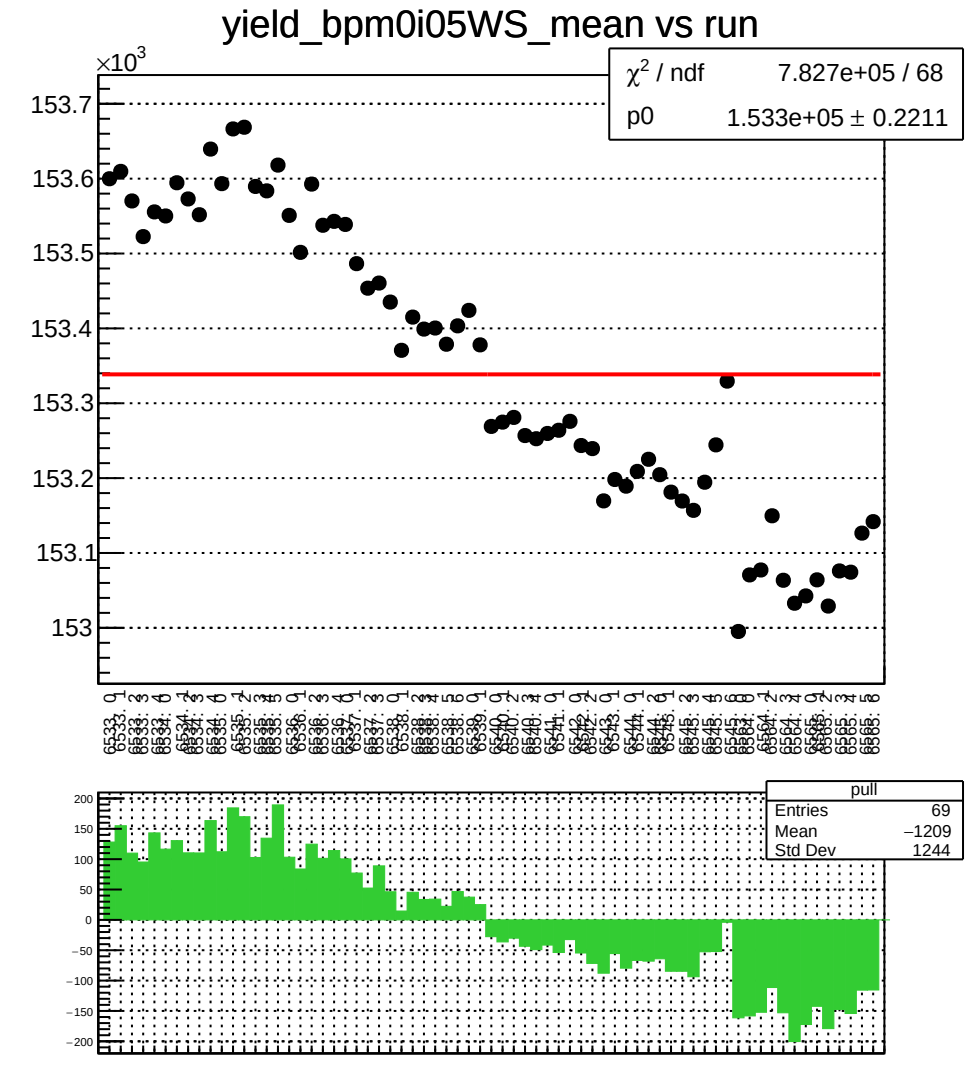

pull1D
Entries 69
Mean 0.01219
Std Dev 6.944
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

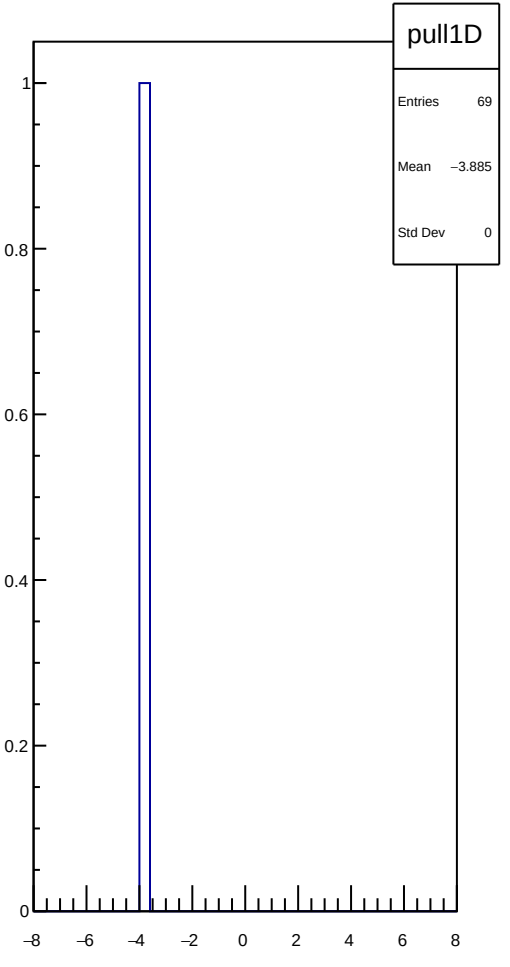

yield_bpm0i02WS_rms vs run
$\chi^2$ / ndf 9020 / 68
p0 181.7 ± 0.1562
280
260
240
220
200
180
160

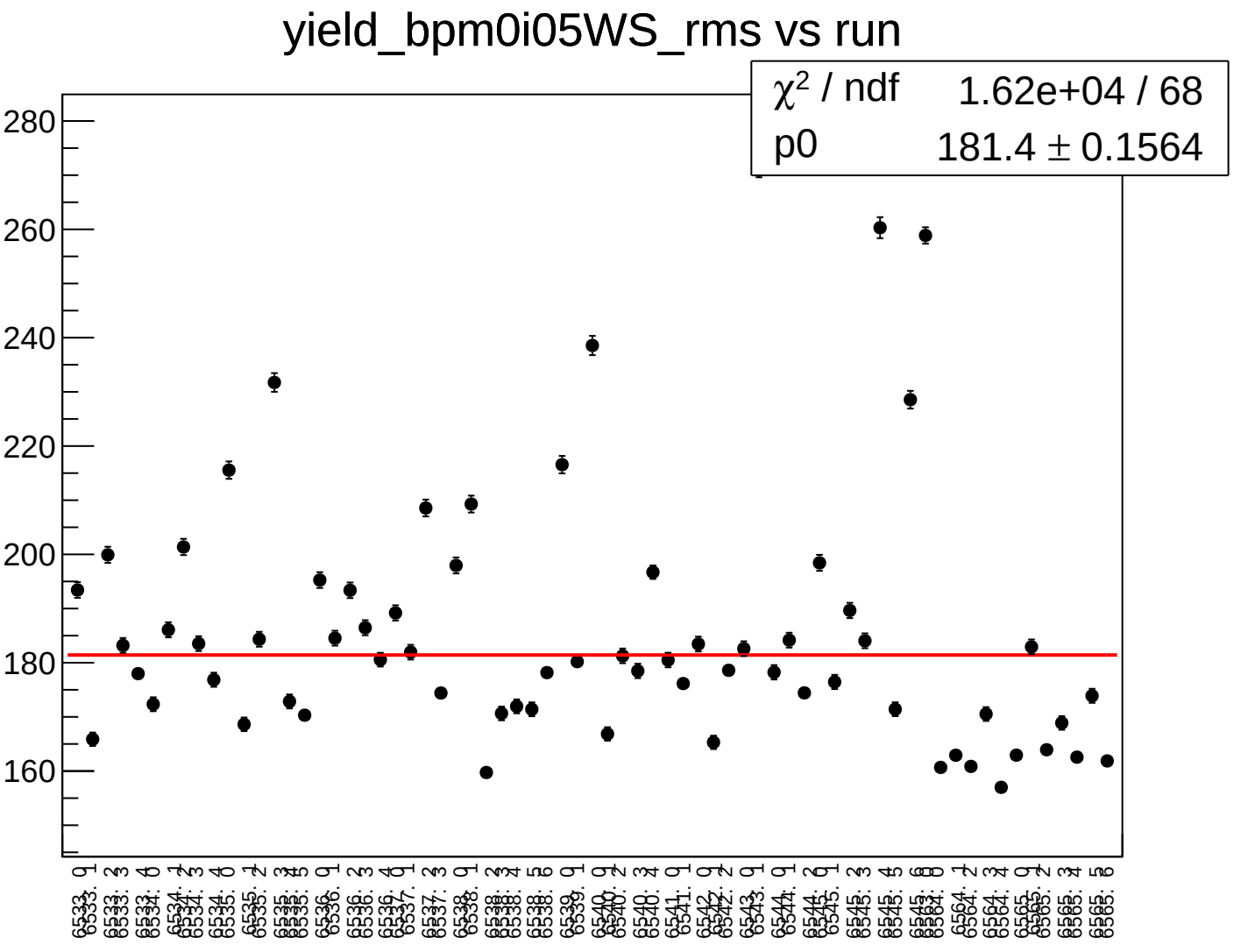

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 9.041e+05 / 68
p0 1.389e+05 ± 0.2168
139.2
139.1
139
138.9
138.8
138.7
138.6
138.5
pull
Entries 69
Mean −932.7
Std Dev 965.7
200
150
100
50
0
−50
−100
−150
−200

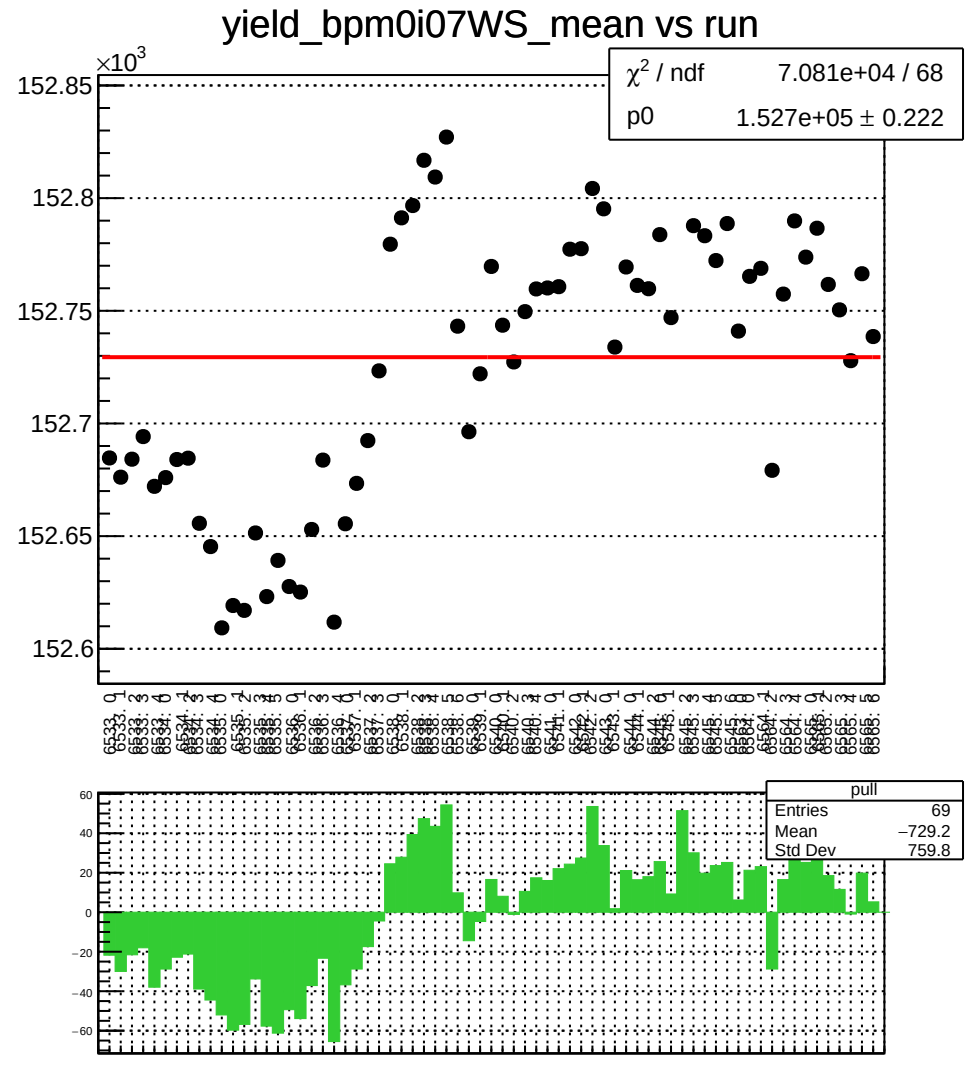

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

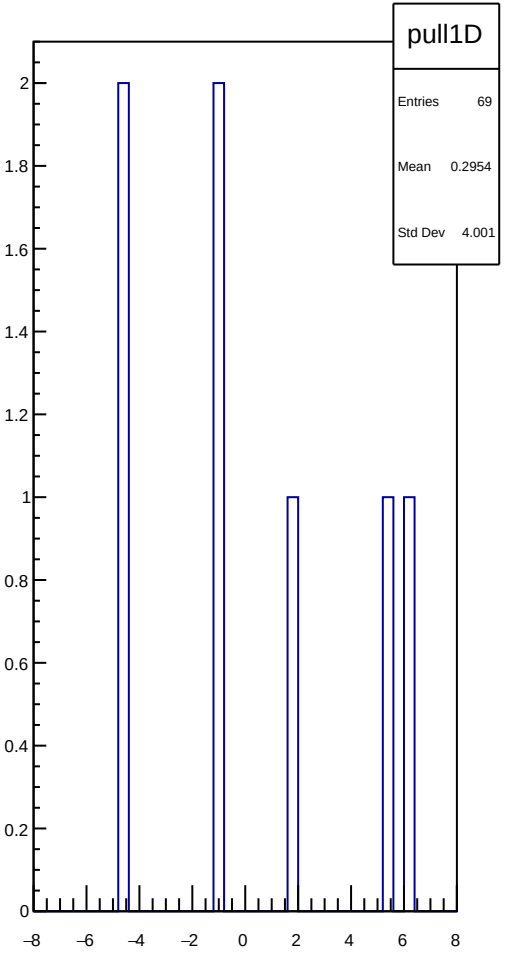

yield_bpm0i02aWS_rms vs run
χ² / ndf 1.15e+04 / 68
p0 178.2 ± 0.1533
280
260
240
220
200
180
160

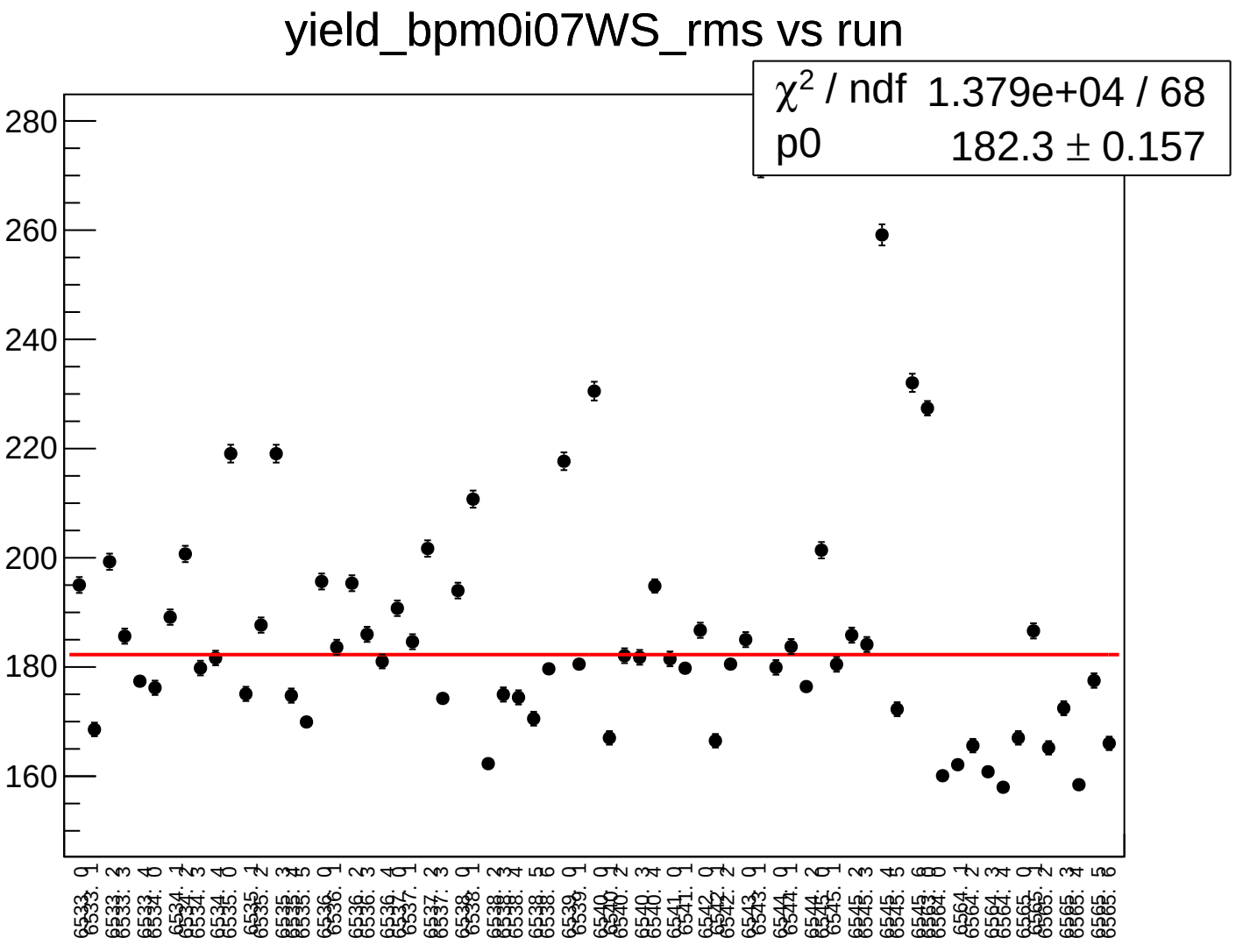

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 7.827e+05 / 68
p0 1.533e+05 ± 0.2211
153.7
153.6
153.5
153.4
153.3
153.2
153.1
153
pull
Entries 69
Mean −1209
Std Dev 1244
200
150
100
50
0
−50
−100
−150
−200

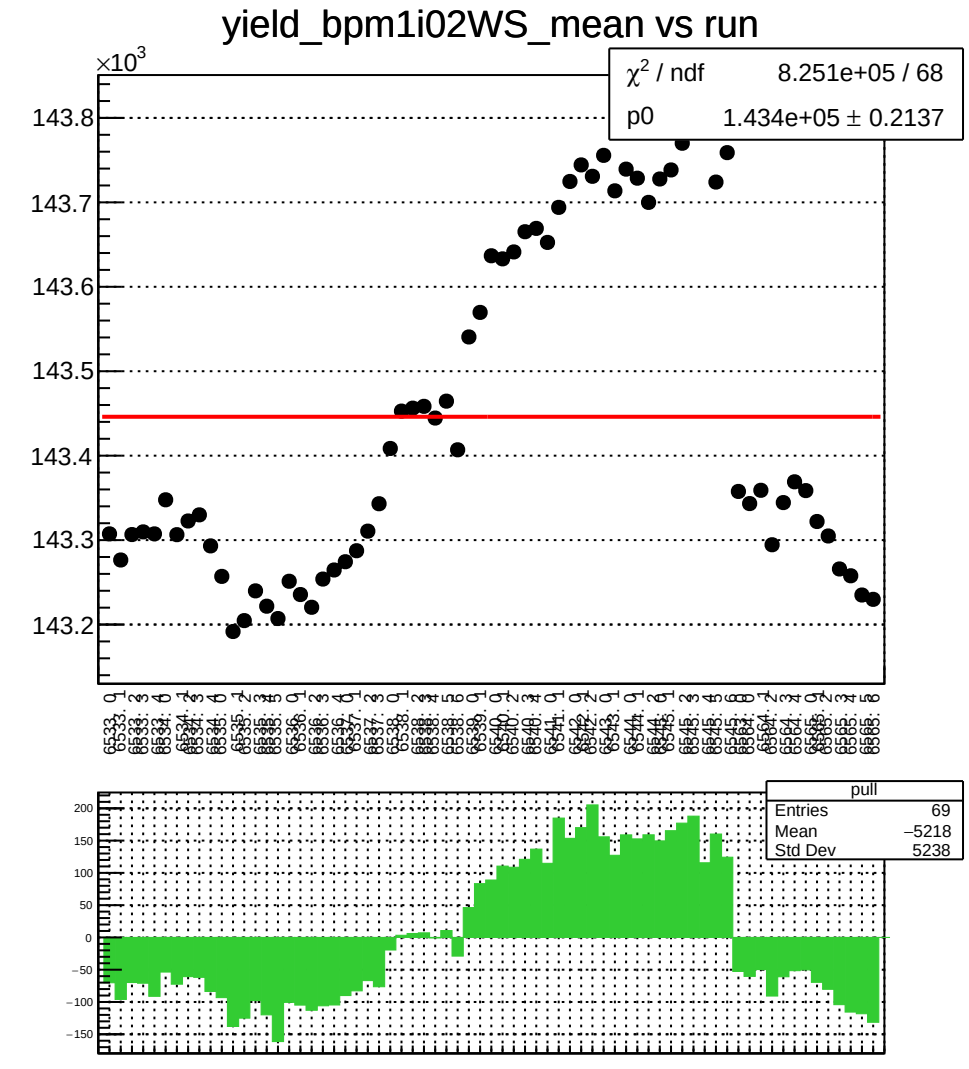

pull1D
Entries 69
Mean −3.885
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

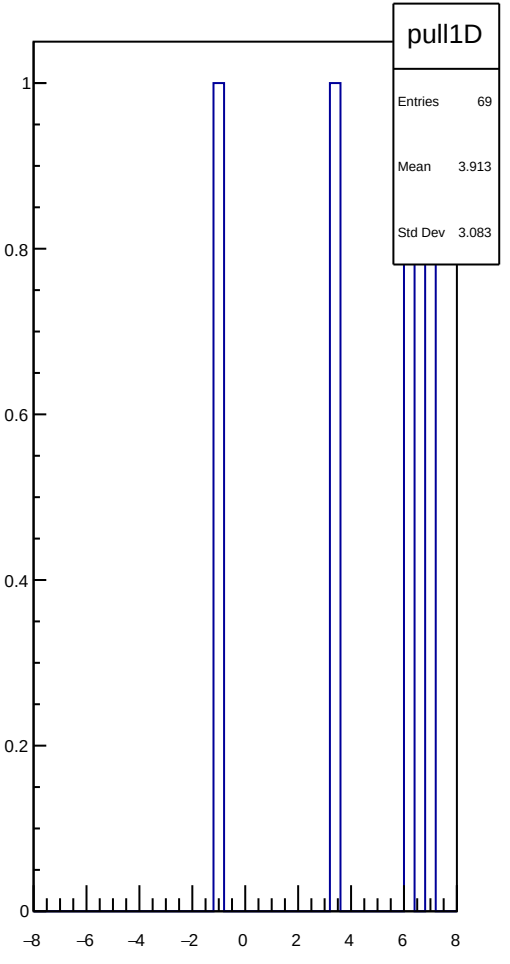

yield_bpm0i05WS_rms vs run
χ² / ndf 1.62e+04 / 68
p0 181.4 ± 0.1564
280
260
240
220
200
180
160

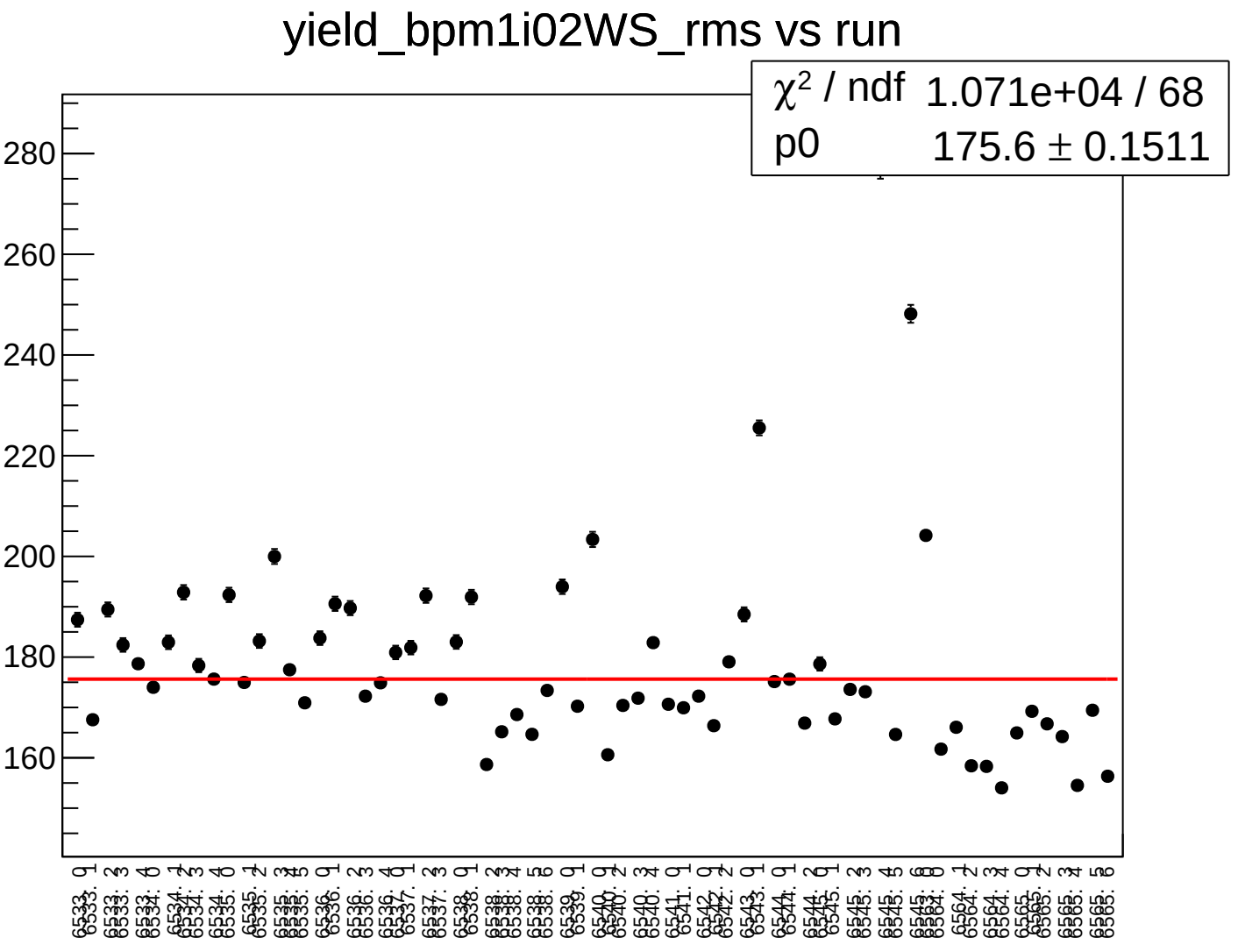

yield_bpm0i07WS_mean vs run
×10^3
152.85
152.8
152.75
152.7
152.65
152.6
χ² / ndf 7.081e+04 / 68
p0 1.527e+05 ± 0.222
pull
Entries 69
Mean −729.2
Std Dev 759.8
60
40
20
0
−20
−40
−60

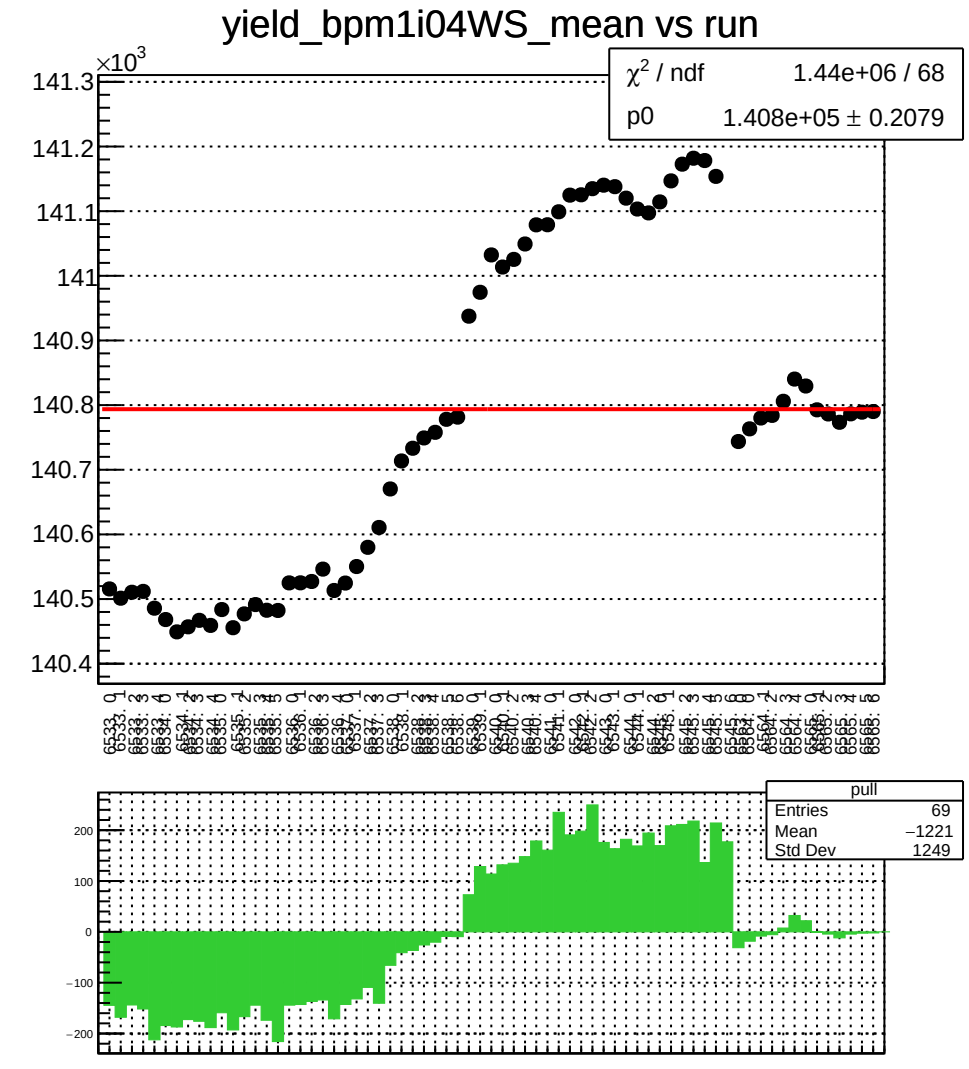

pull1D
Entries 69
Mean 0.2954
Std Dev 4.001
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

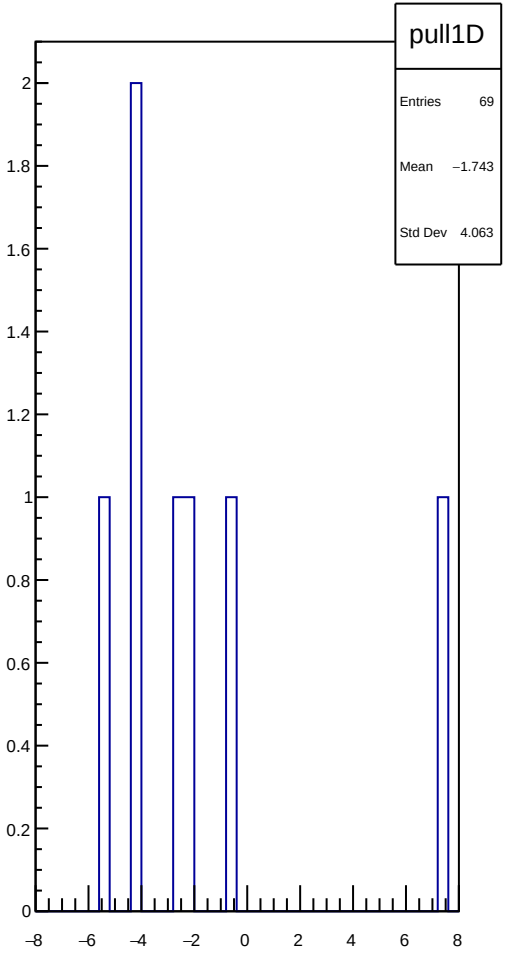

yield_bpm0i07WS_rms vs run
$\chi^2$ / ndf 1.379e+04 / 68
p0 182.3 ± 0.157
280
260
240
220
200
180
160

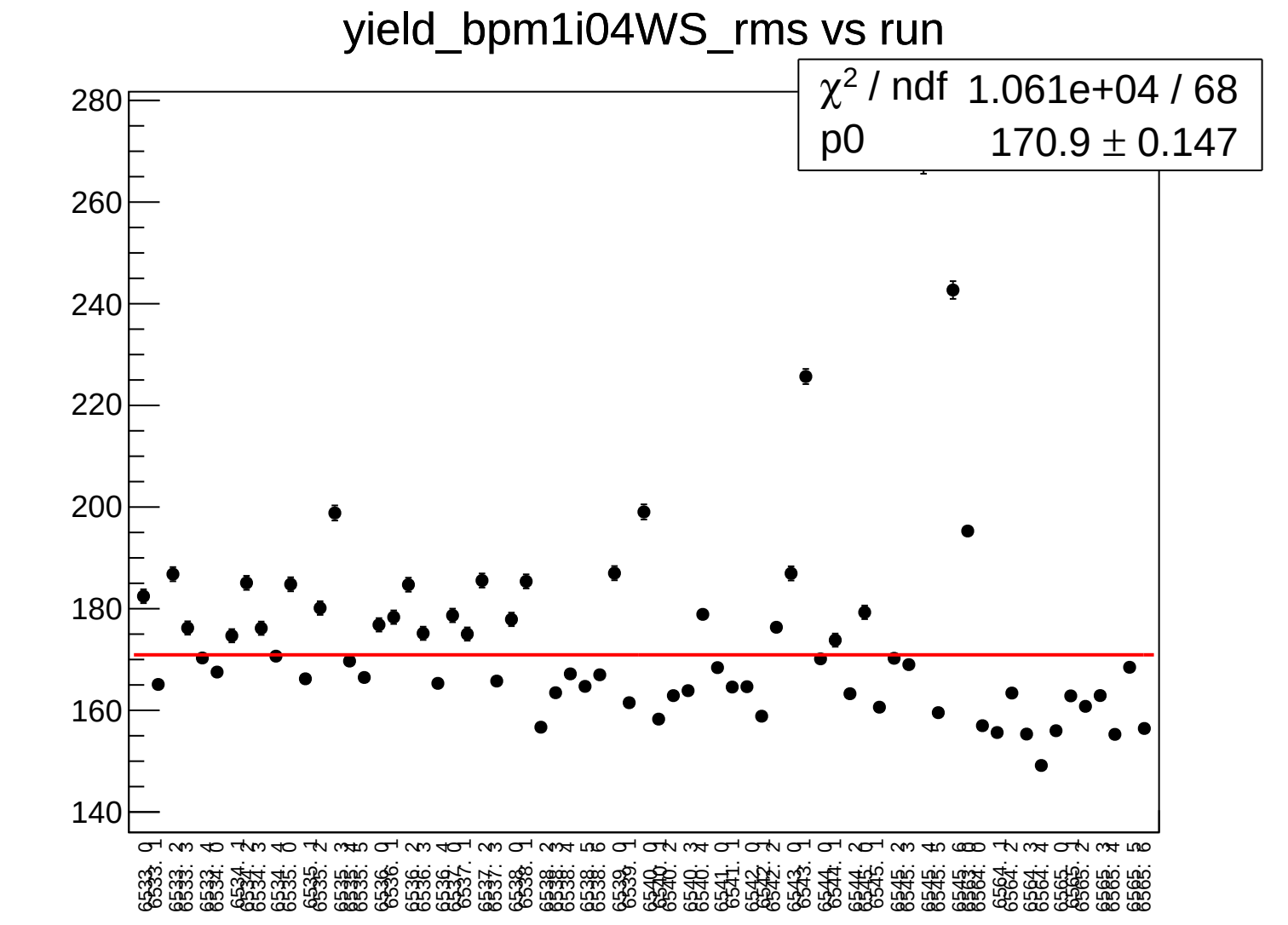

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 8.251e+05 / 68
p0 1.434e+05 ± 0.2137
143.8
143.7
143.6
143.5
143.4
143.3
143.2
pull
Entries 69
Mean −5218
Std Dev 5238
200
150
100
50
0
−50
−100
−150

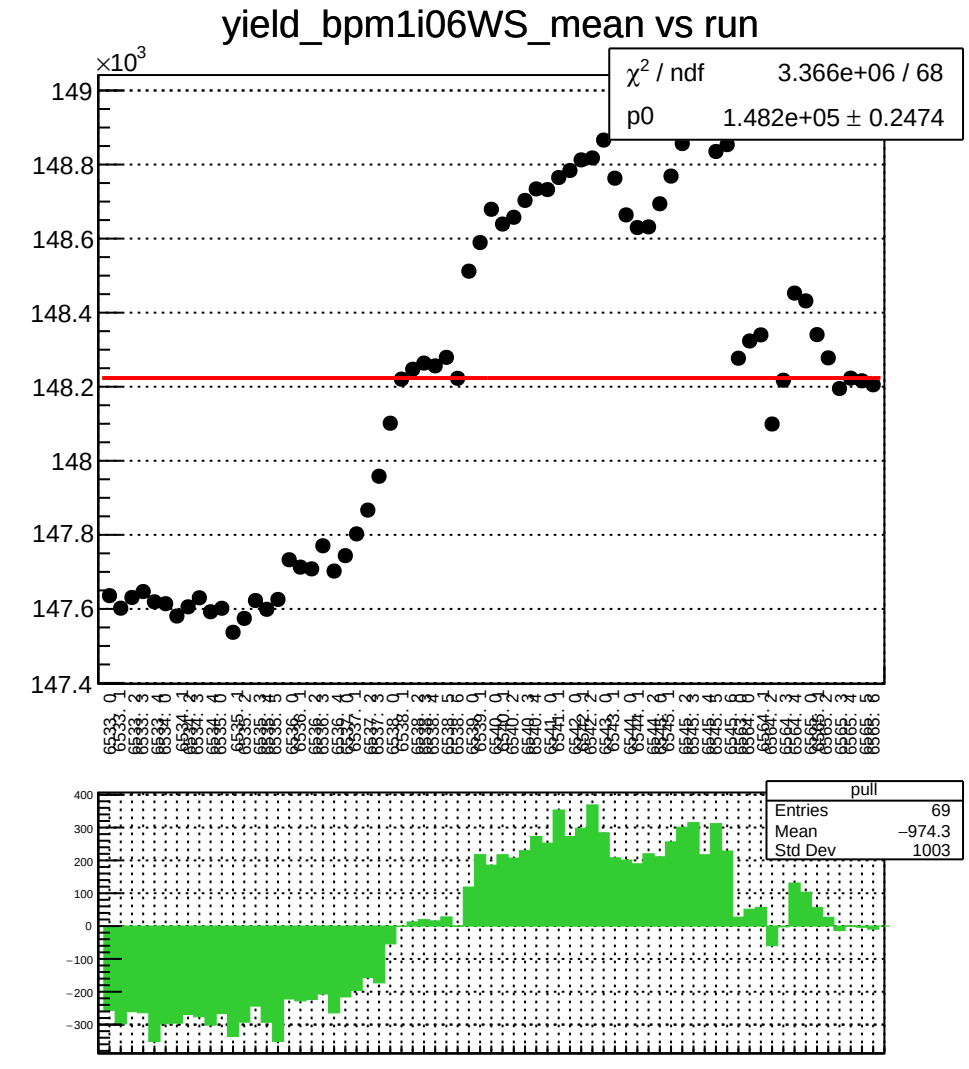

pull1D
Entries 69
Mean 3.913
Std Dev 3.083
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

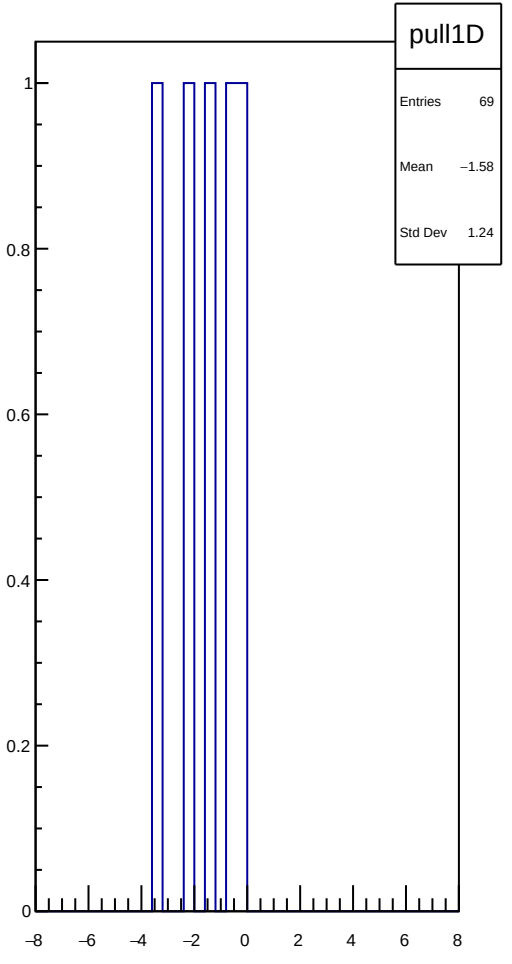

yield_bpm1i02WS_rms vs run
χ² / ndf 1.071e+04 / 68
p0 175.6 ± 0.1511
280
260
240
220
200
180
160

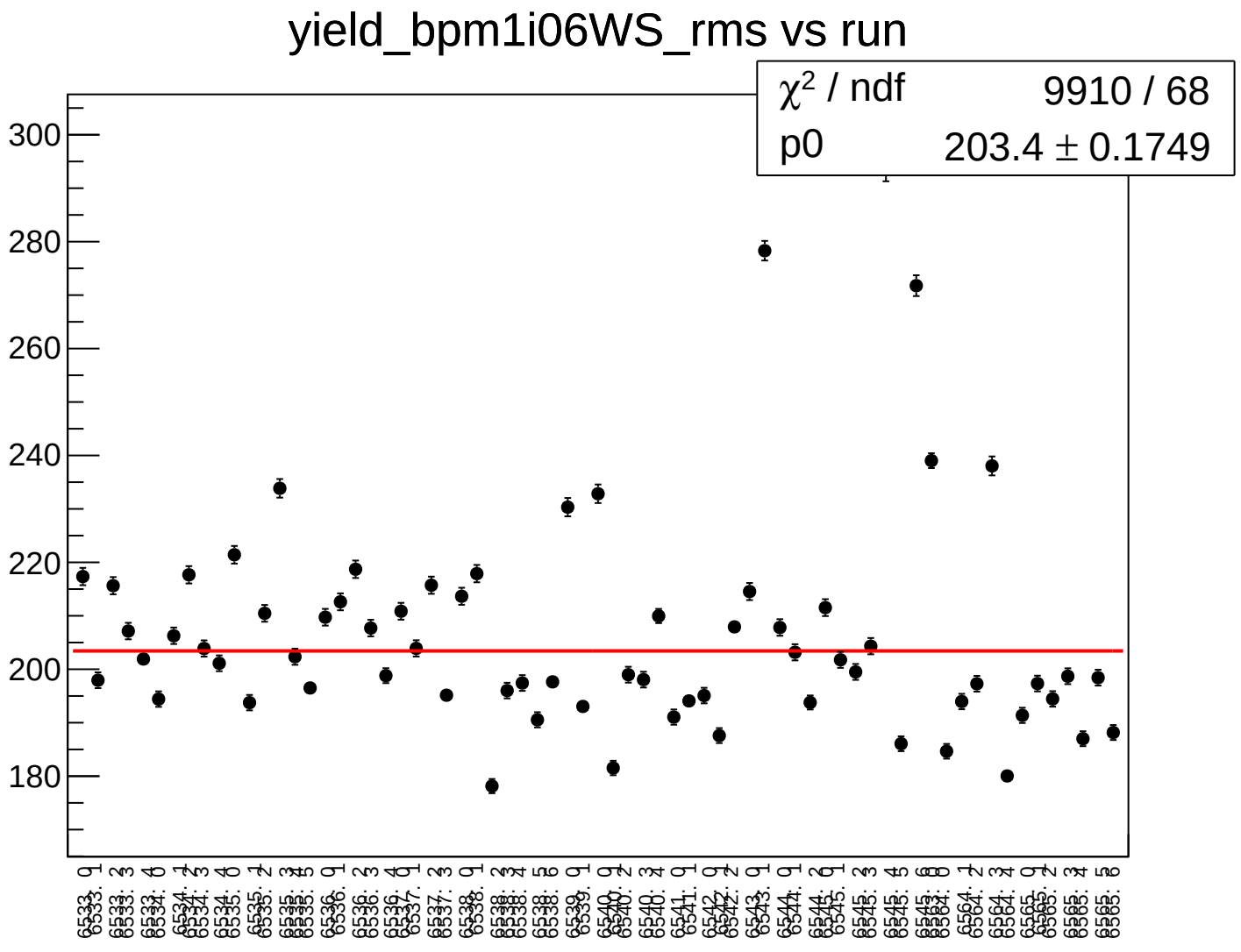

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 1.44e+06 / 68
p0 1.408e+05 ± 0.2079
141.3
141.2
141.1
141
140.9
140.8
140.7
140.6
140.5
140.4
pull
Entries 69
Mean −1221
Std Dev 1249
200
100
0
−100
−200

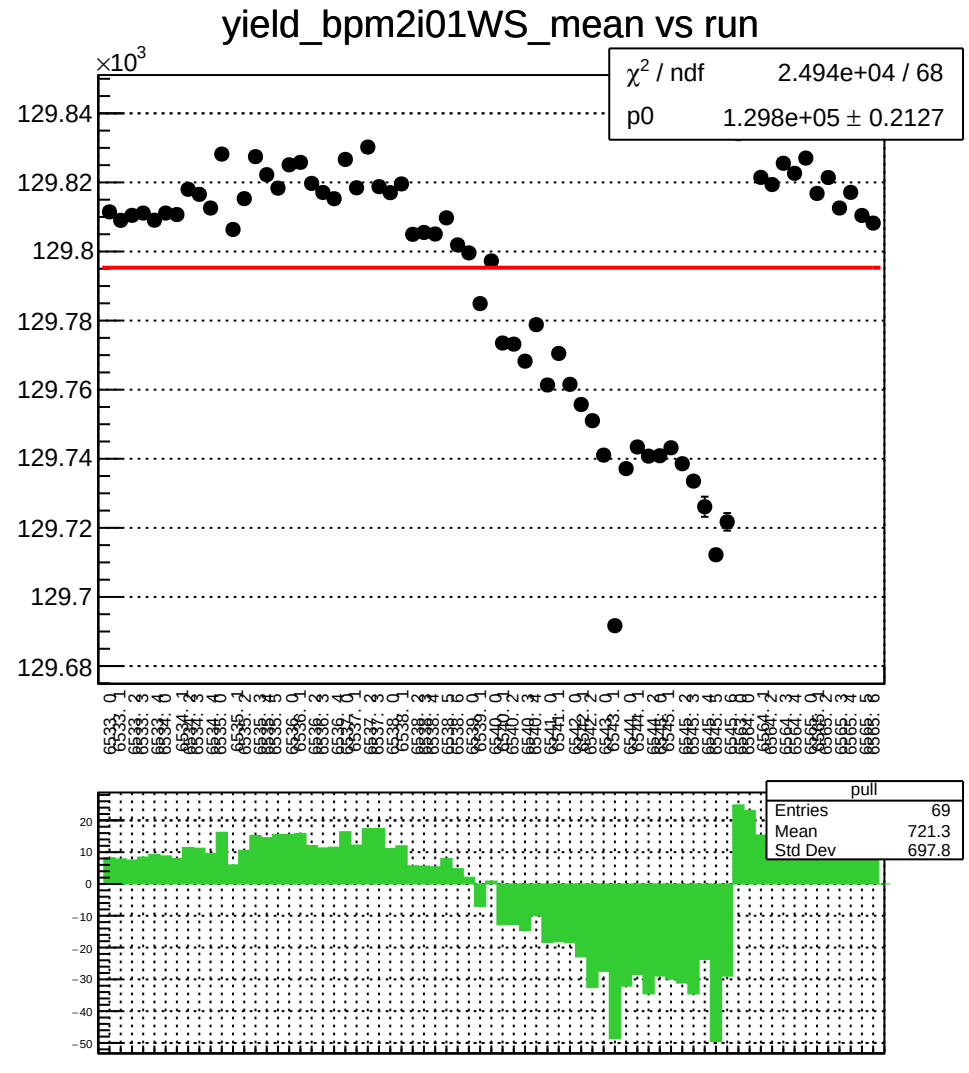

pull1D
Entries 69
Mean −1.743
Std Dev 4.063
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

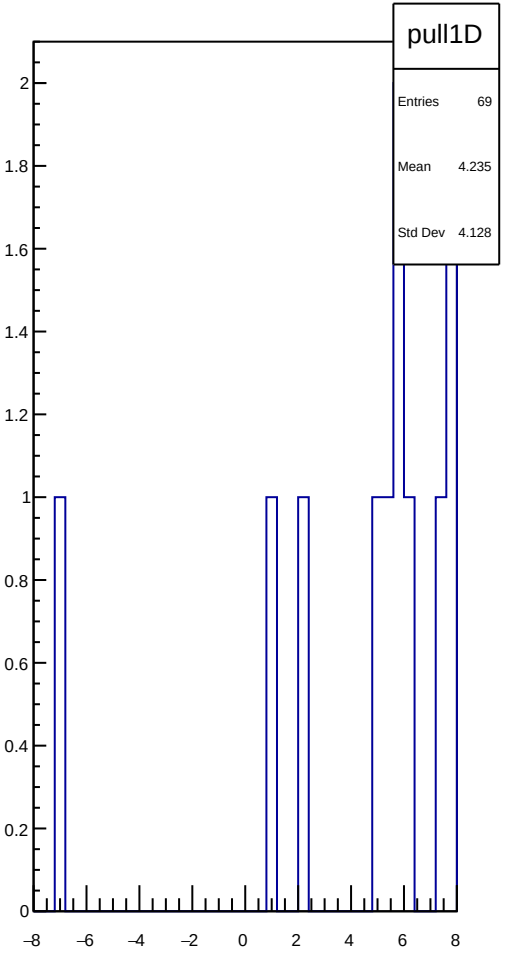

yield_bpm1i04WS_rms vs run
χ² / ndf 1.061e+04 / 68
p0 170.9 ± 0.147
280
260
240
220
200
180
160
140

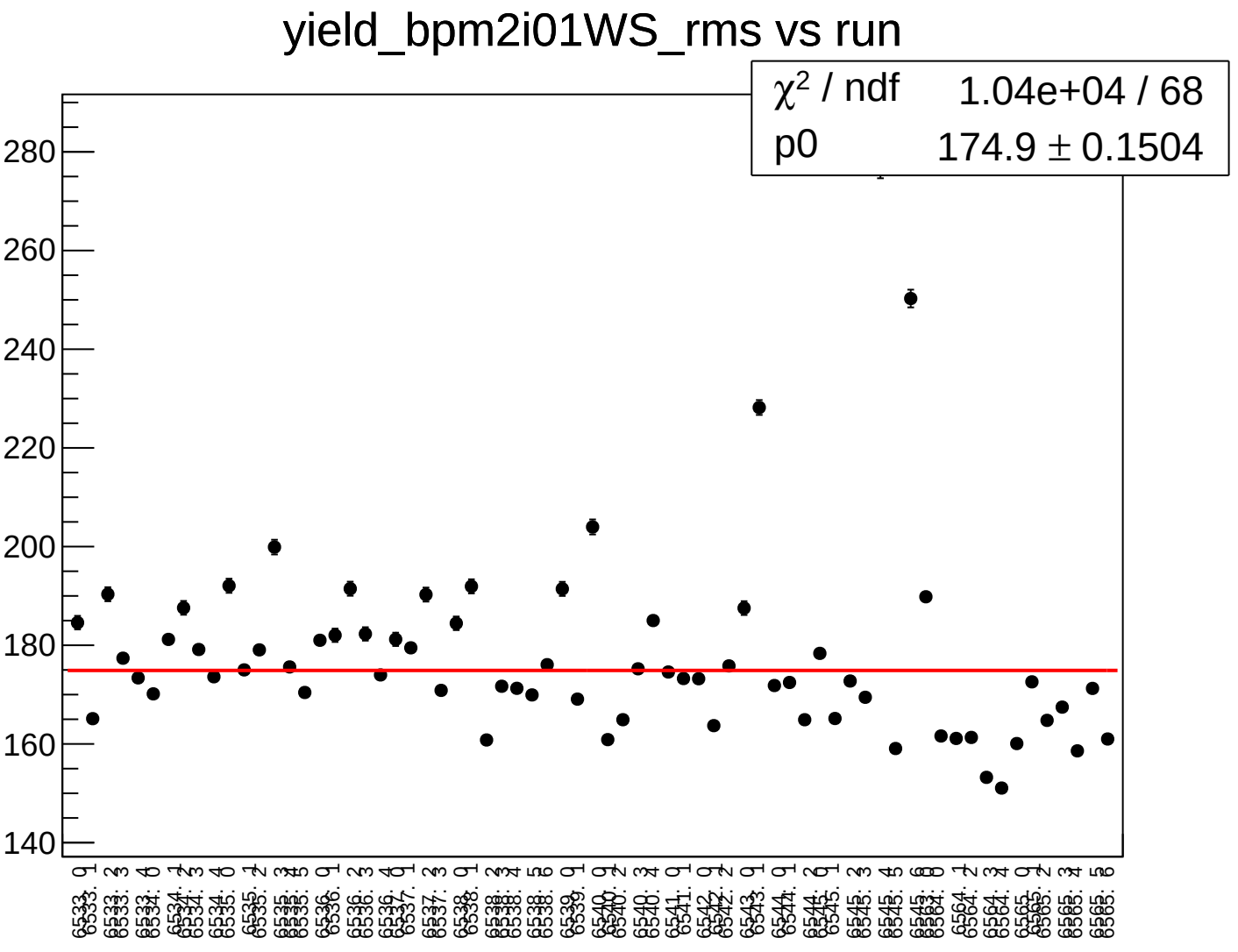

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.366e+06 / 68
p0 1.482e+05 ± 0.2474
149
148.8
148.6
148.4
148.2
148
147.8
147.6
147.4
pull
Entries 69
Mean −974.3
Std Dev 1003
400
300
200
100
0
−100
−200
−300

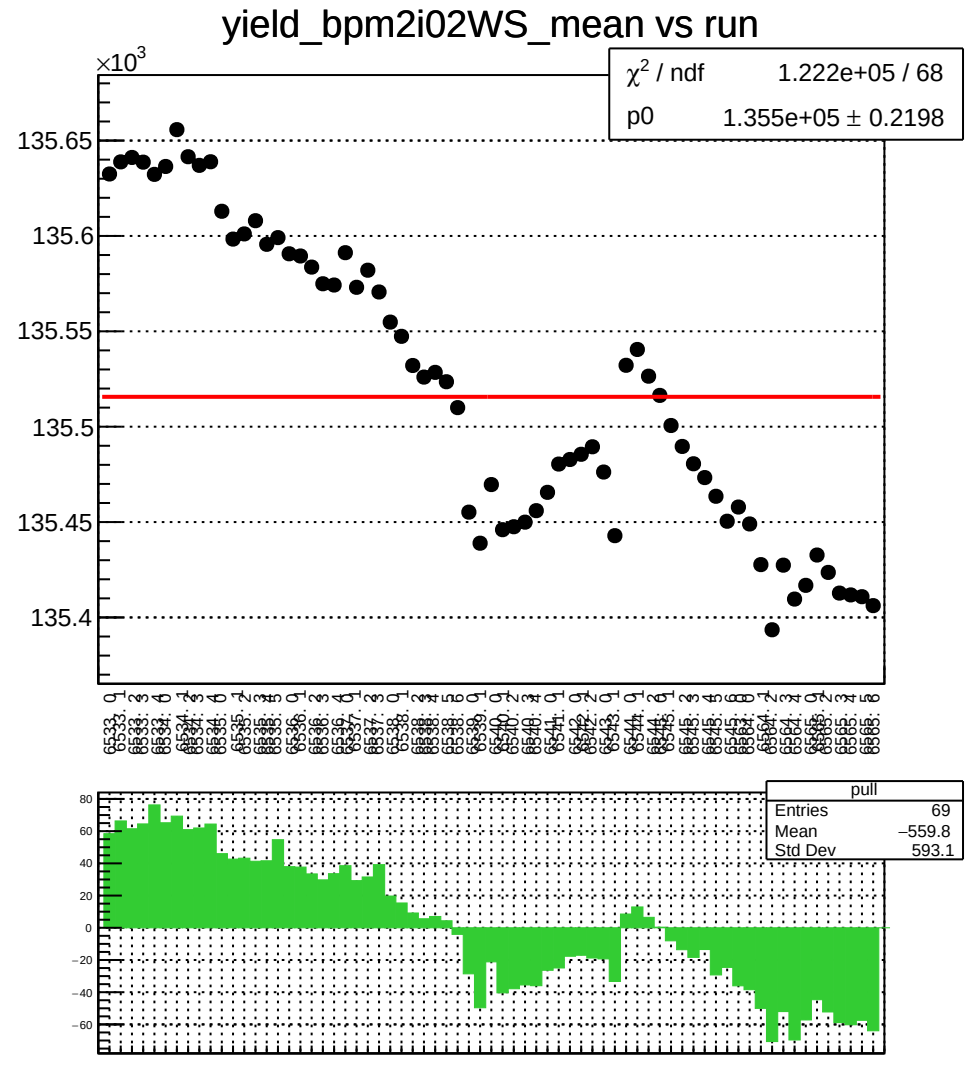

pull1D
Entries 69
Mean −1.58
Std Dev 1.24
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

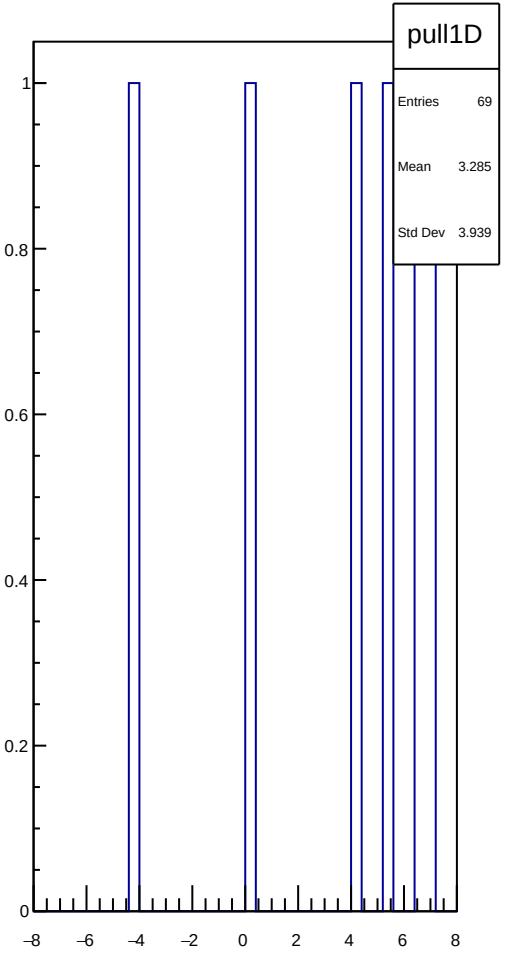

yield_bpm1i06WS_rms vs run
χ² / ndf 9910 / 68
p0 203.4 ± 0.1749
300
280
260
240
220
200
180

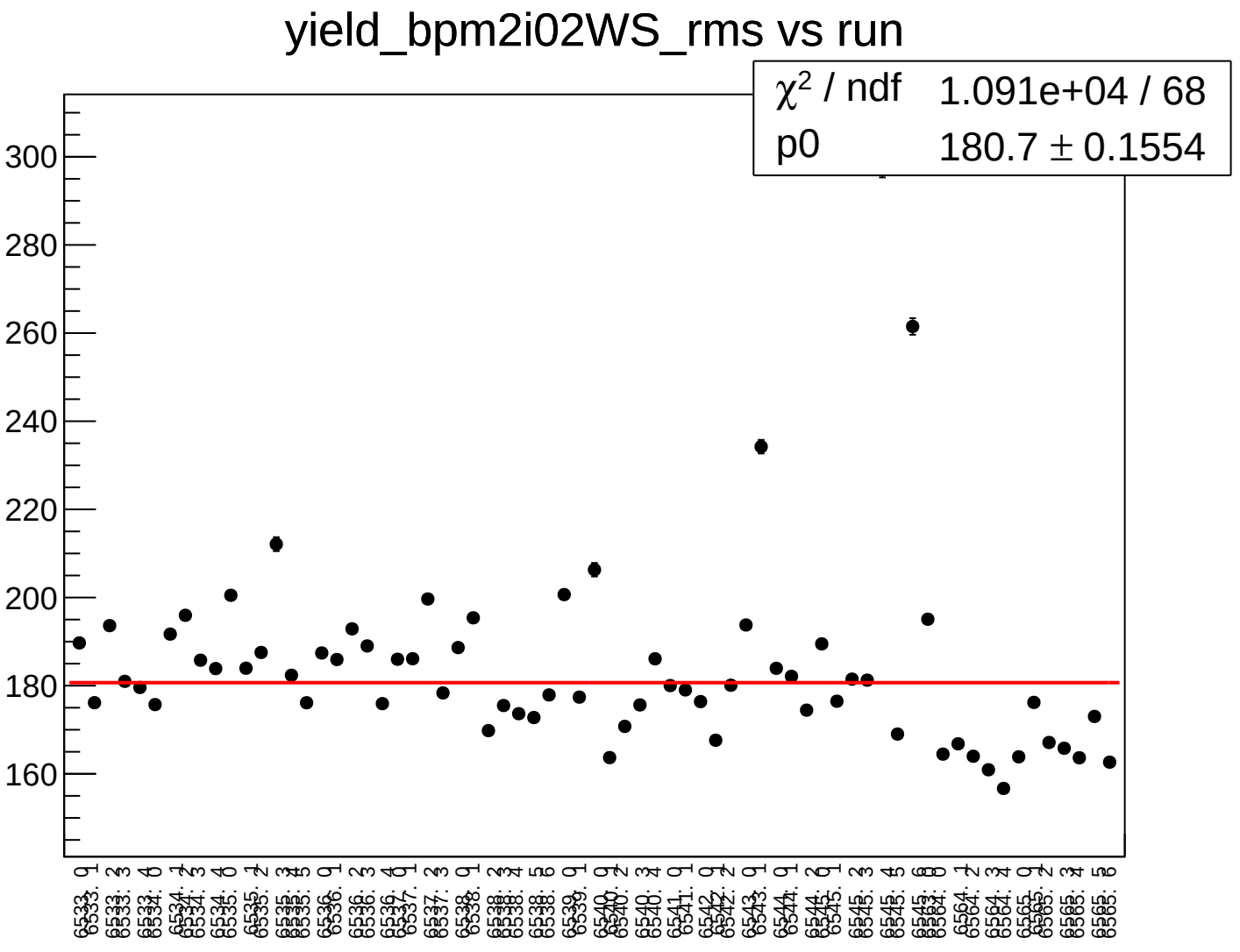

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.494e+04 / 68
p0 1.298e+05 ± 0.2127
129.84
129.82
129.8
129.78
129.76
129.74
129.72
129.7
129.68
pull
Entries 69
Mean 721.3
Std Dev 697.8
20
10
0
−10
−20
−30
−40
−50

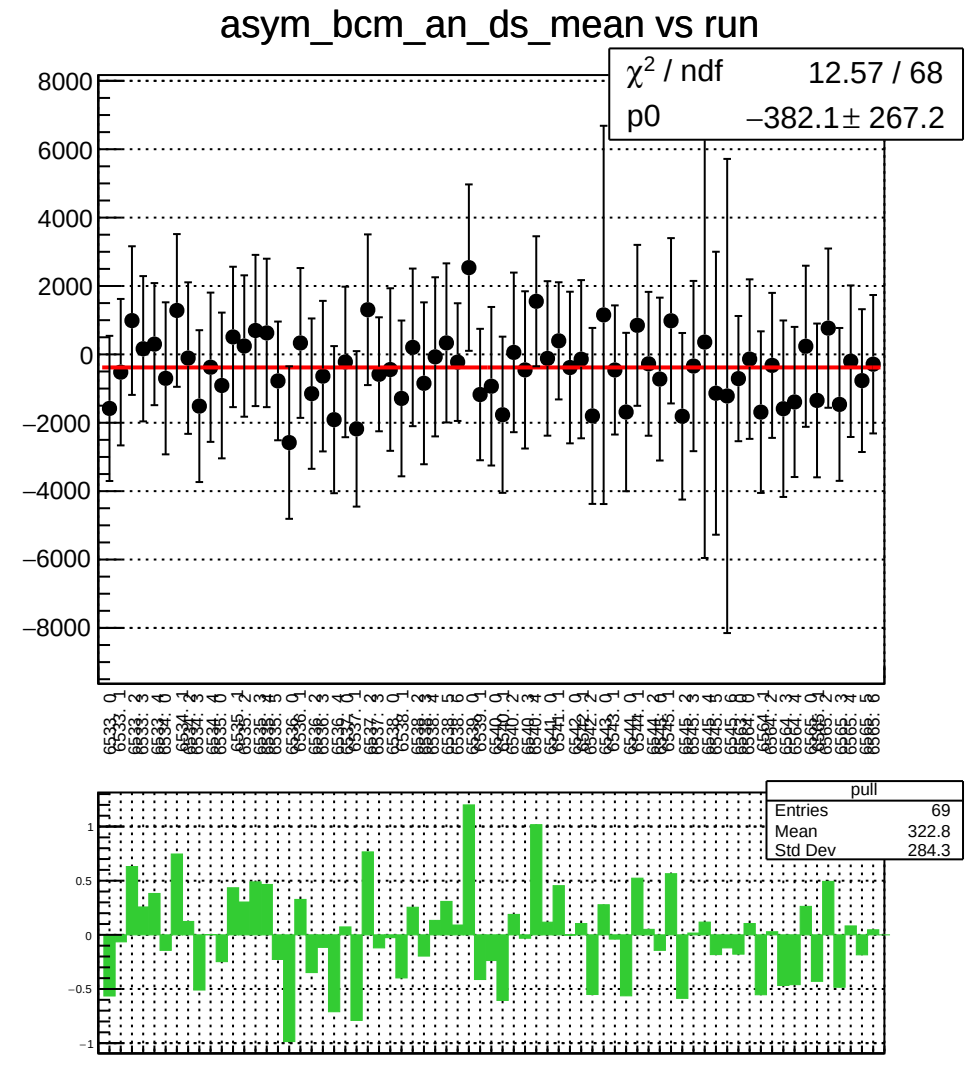

pull1D
Entries 69
Mean 4.235
Std Dev 4.128
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

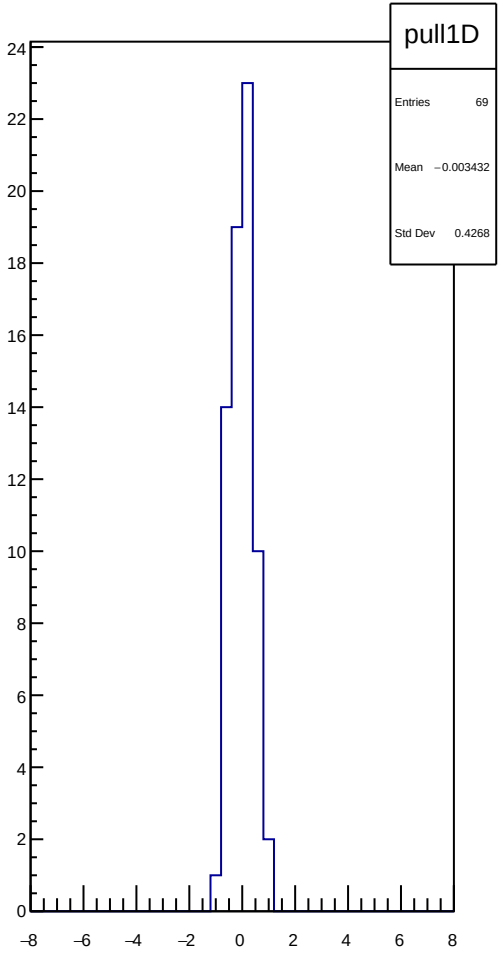

yield_bpm2i01WS_rms vs run
χ² / ndf 1.04e+04 / 68
p0 174.9 ± 0.1504
280
260
240
220
200
180
160
140

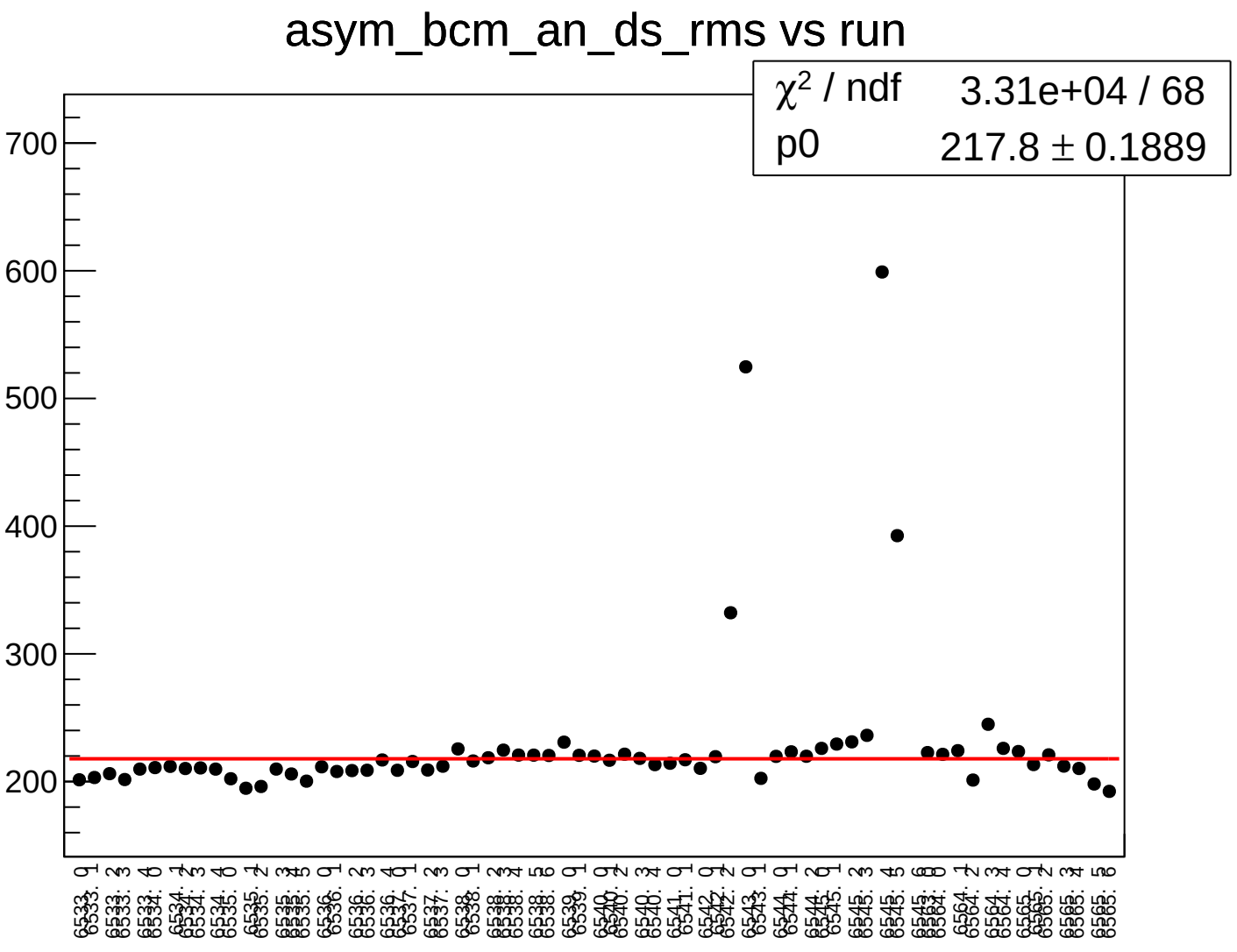

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 1.222e+05 / 68
p0 1.355e+05 ± 0.2198
135.65
135.6
135.55
135.5
135.45
135.4
pull
Entries 69
Mean −559.8
Std Dev 593.1
80
60
40
20
0
−20
−40
−60

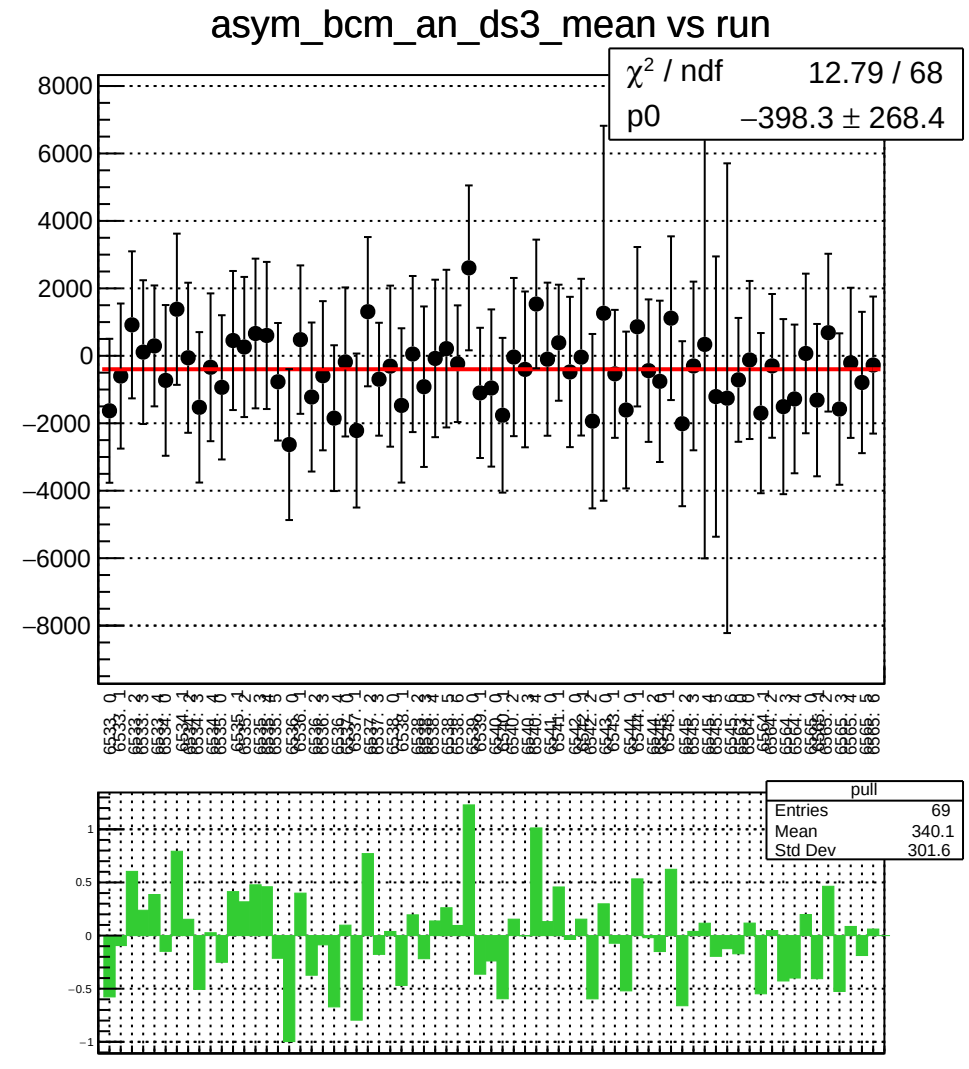

pull1D
Entries 69
Mean 3.285
Std Dev 3.939
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

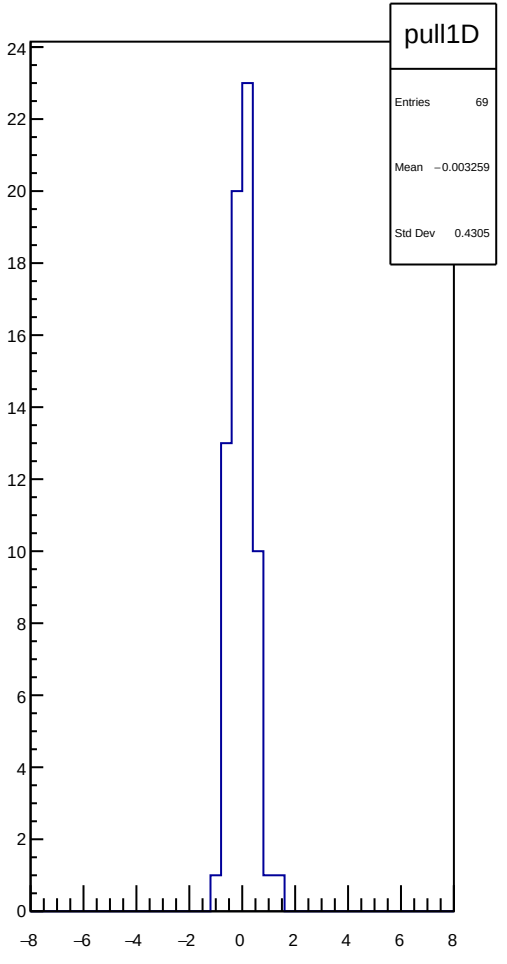

yield_bpm2i02WS_rms vs run
χ² / ndf 1.091e+04 / 68
p0 180.7 ± 0.1554
300
280
260
240
220
200
180
160

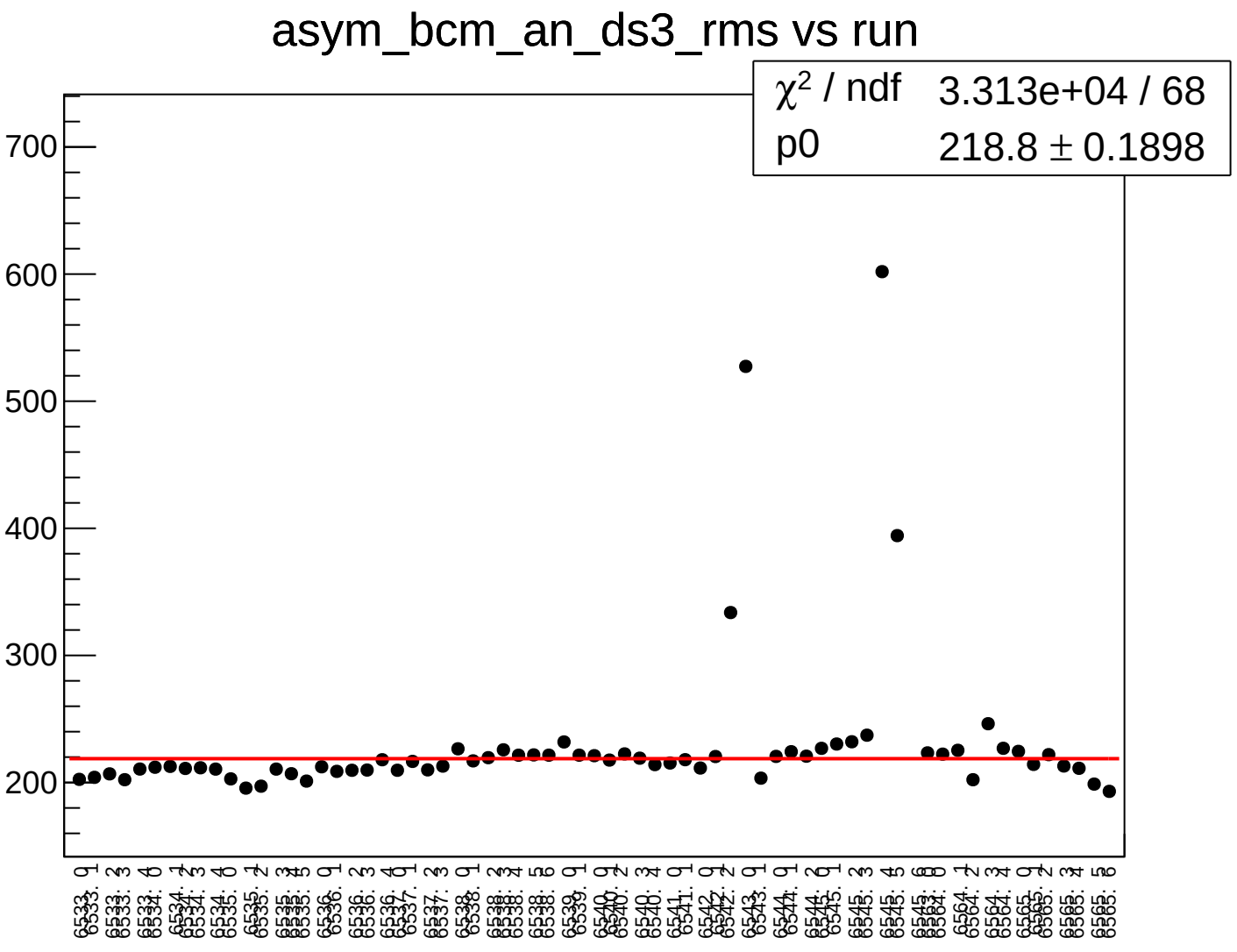

asym_bcm_an_ds_mean vs run
χ² / ndf 12.57 / 68
p0 −382.1± 267.2
pull
Entries 69
Mean 322.8
Std Dev 284.3

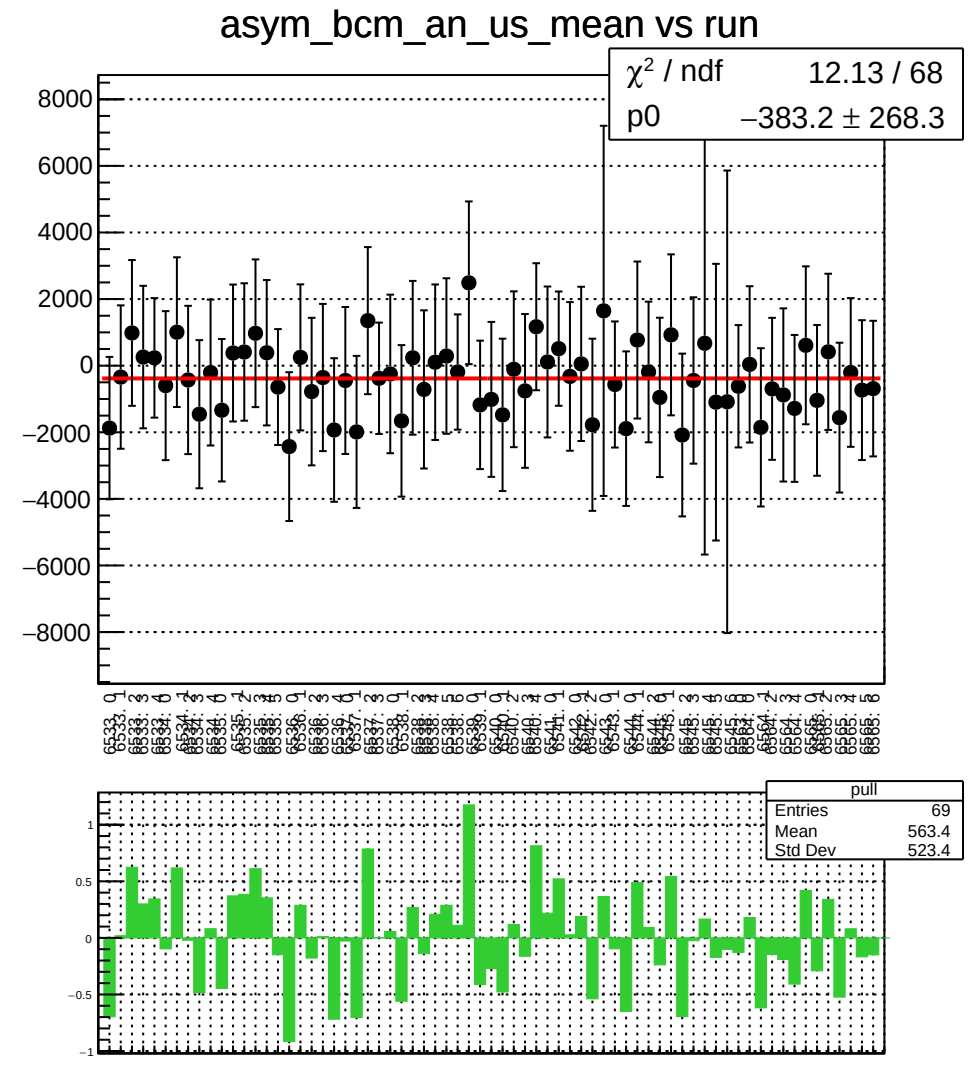

pull1D
Entries 69
Mean −0.003432
Std Dev 0.4268

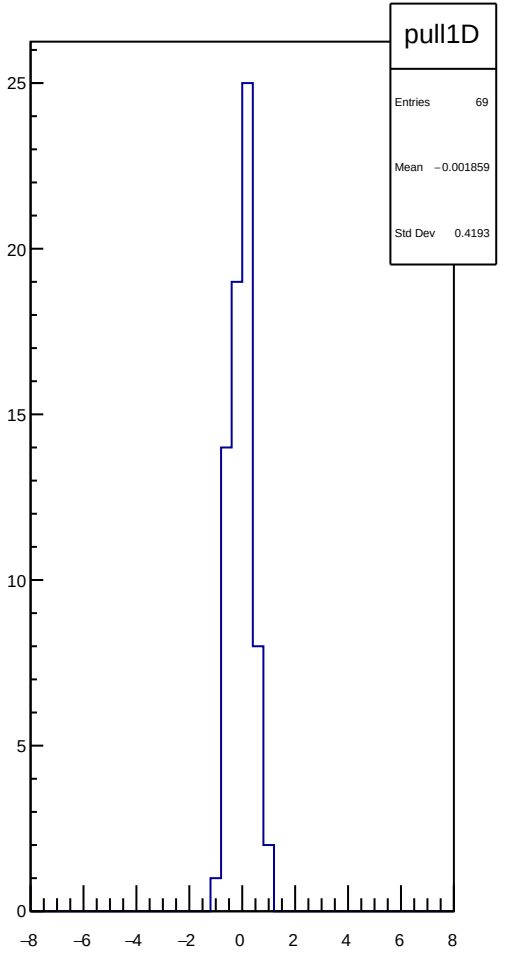

asym_bcm_an_ds_rms vs run
χ² / ndf 3.31e+04 / 68
p0 217.8 ± 0.1889
700
600
500
400
300
200

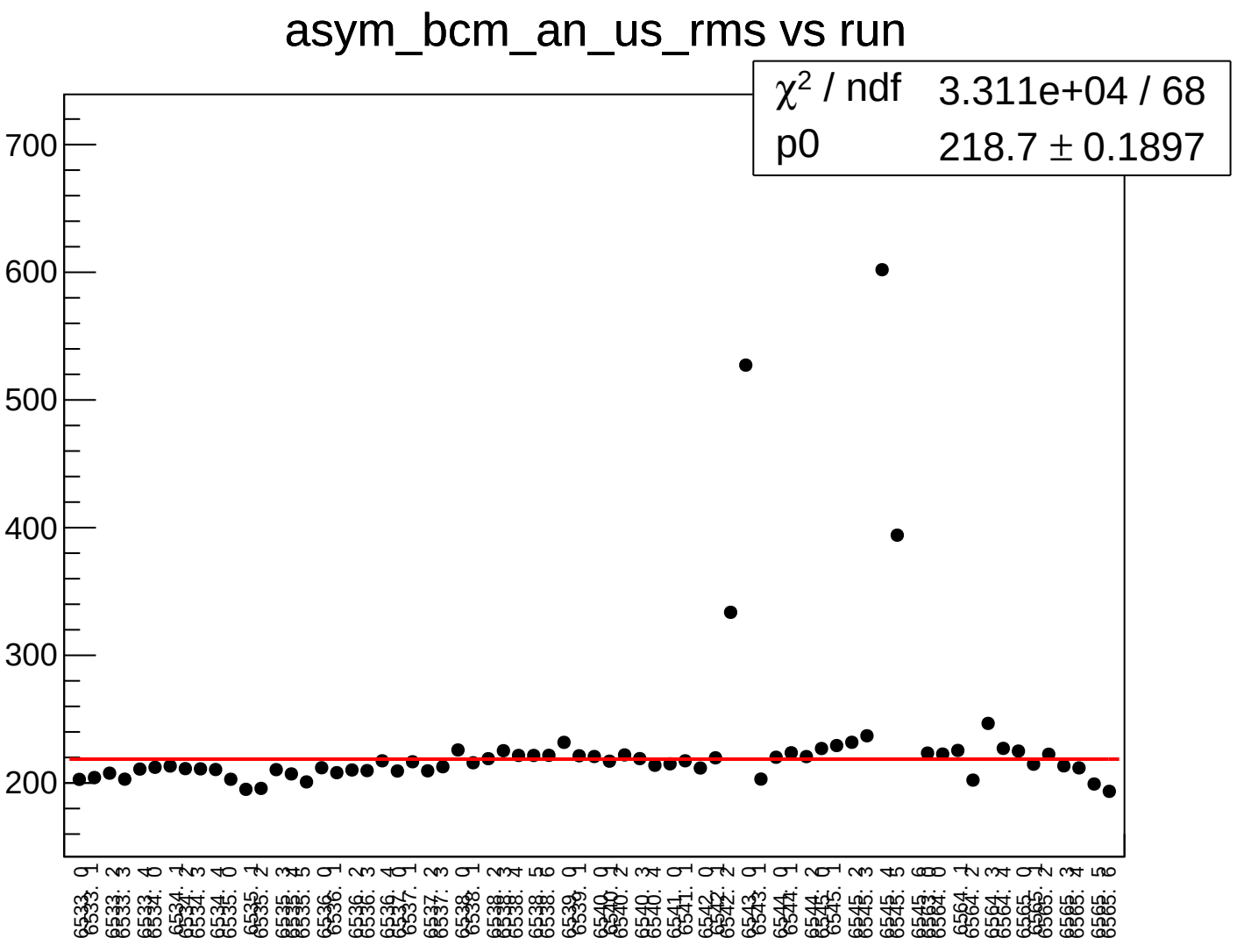

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.79 / 68
p0 −398.3 ± 268.4
pull
Entries 69
Mean 340.1
Std Dev 301.6

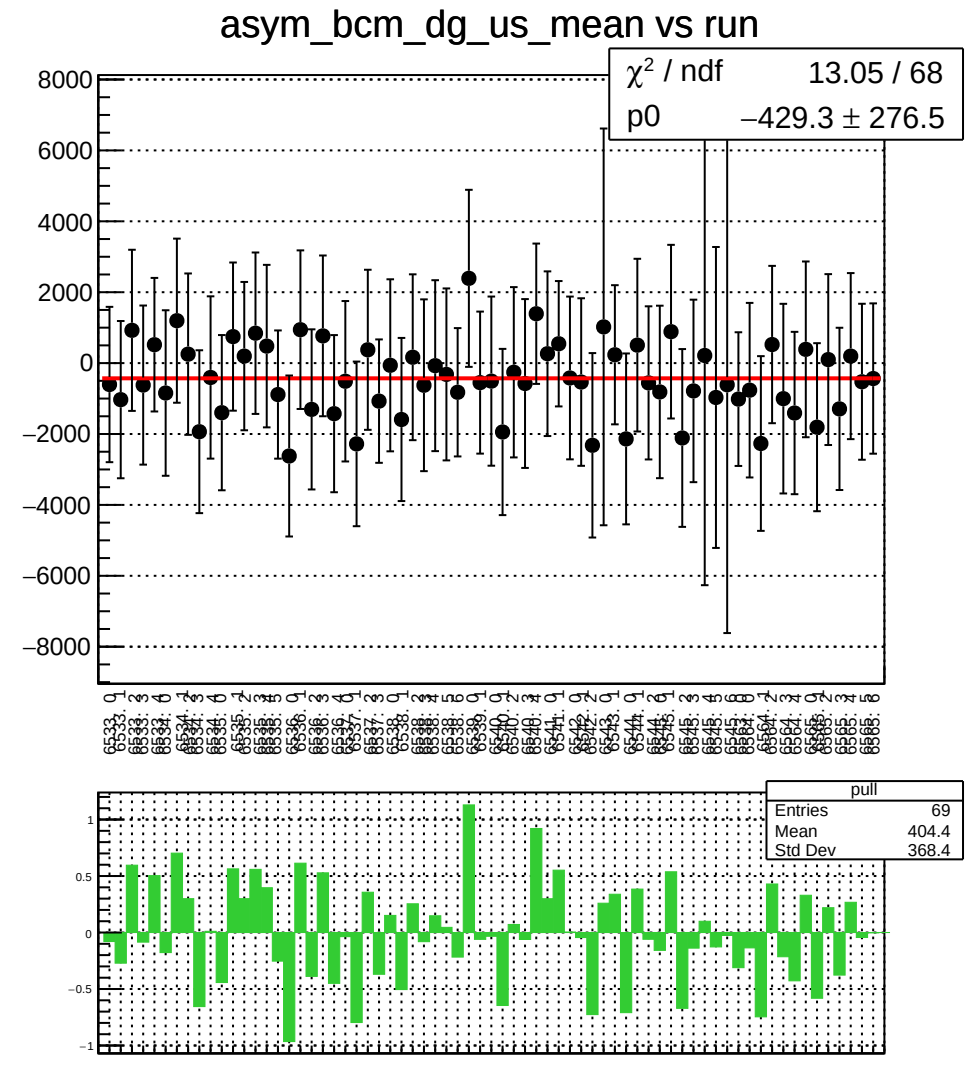

pull1D
Entries 69
Mean −0.003259
Std Dev 0.4305

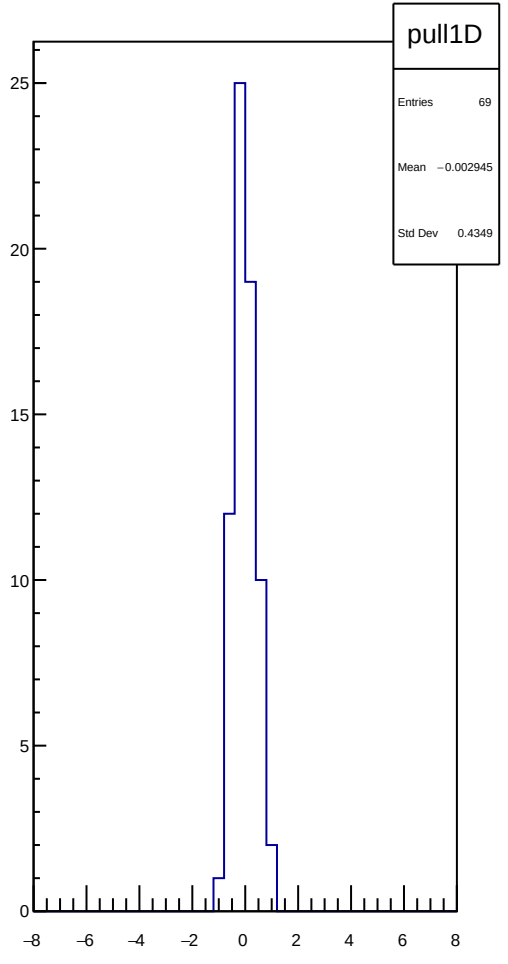

asym_bcm_an_ds3_rms vs run
χ² / ndf 3.313e+04 / 68
p0 218.8 ± 0.1898
700
600
500
400
300
200

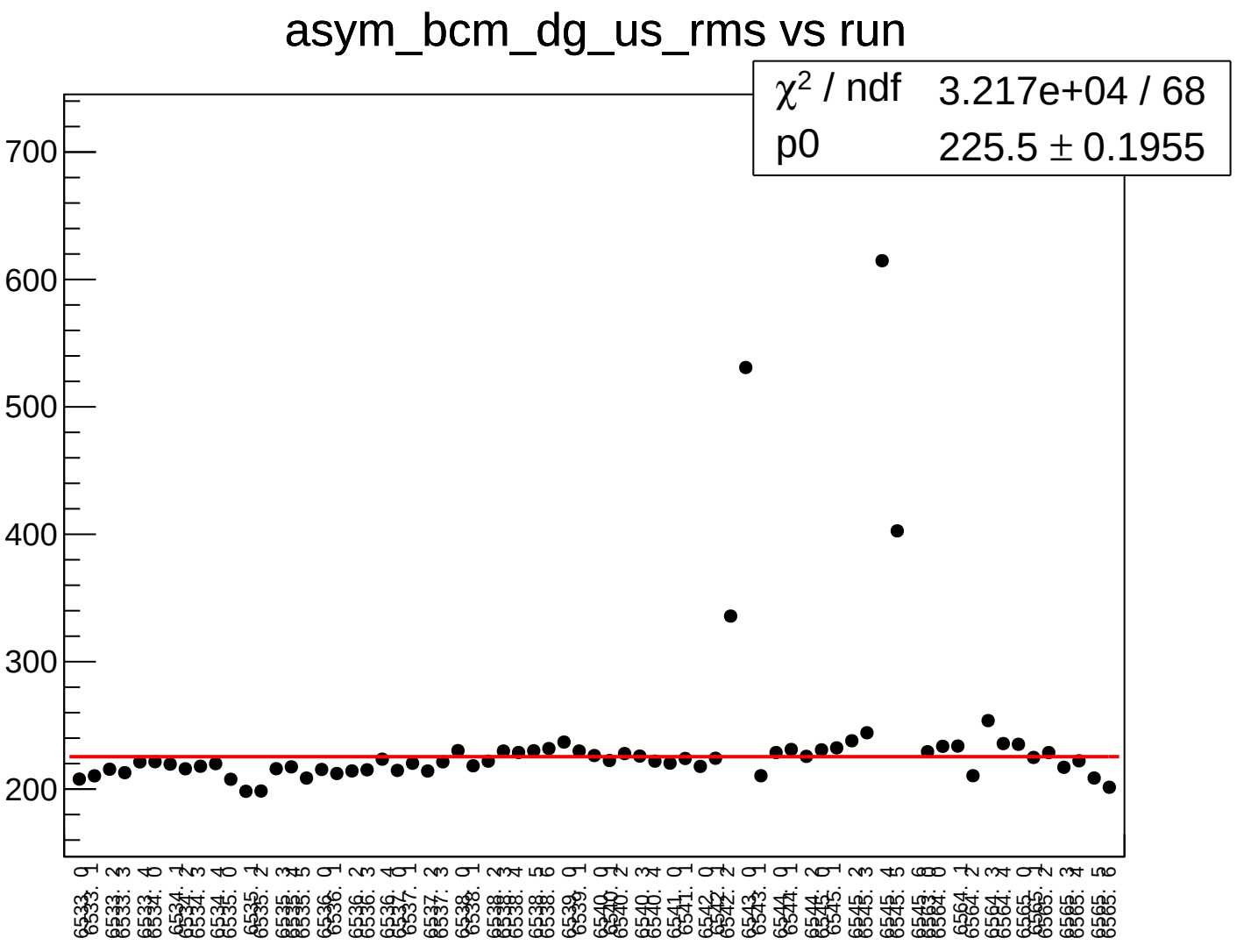

asym_bcm_an_us_mean vs run
χ² / ndf 12.13 / 68
p0 −383.2 ± 268.3
pull
Entries 69
Mean 563.4
Std Dev 523.4

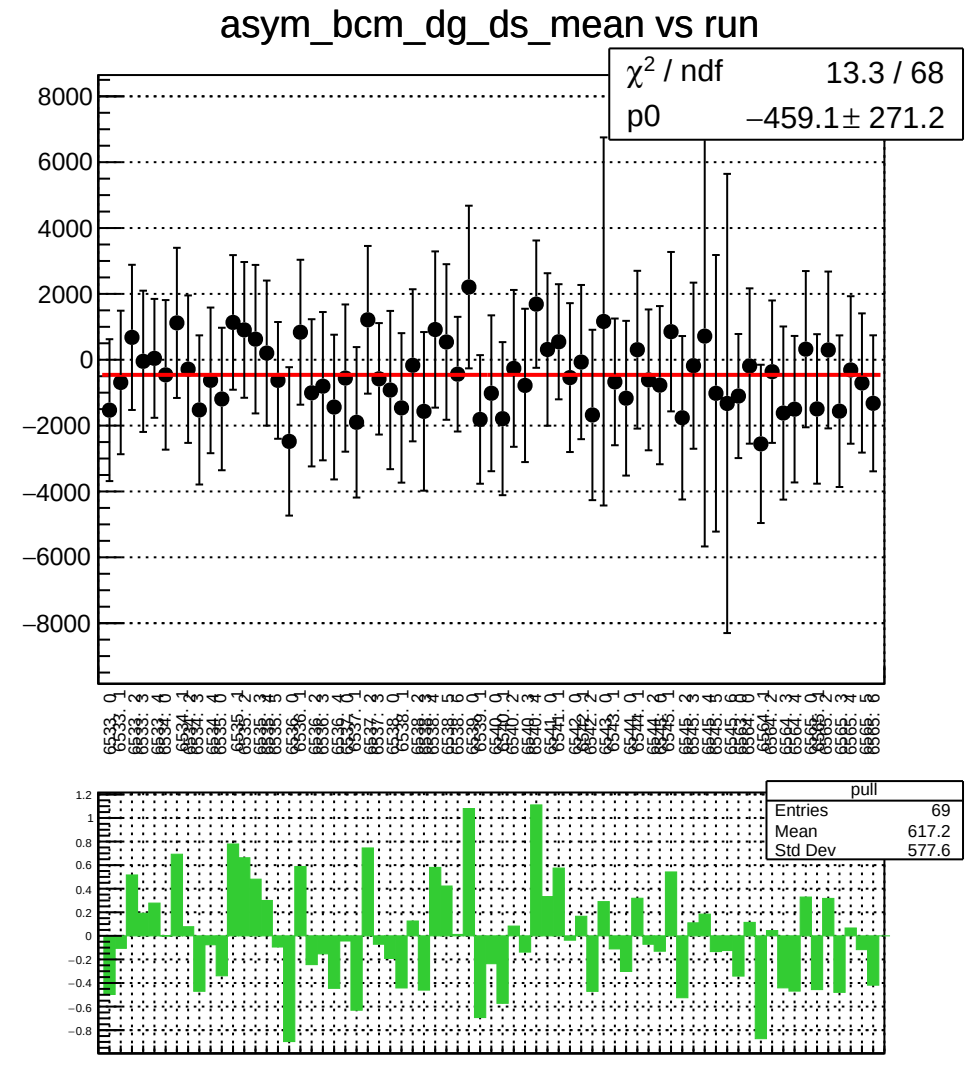

pull1D
Entries 69
Mean −0.001859
Std Dev 0.4193

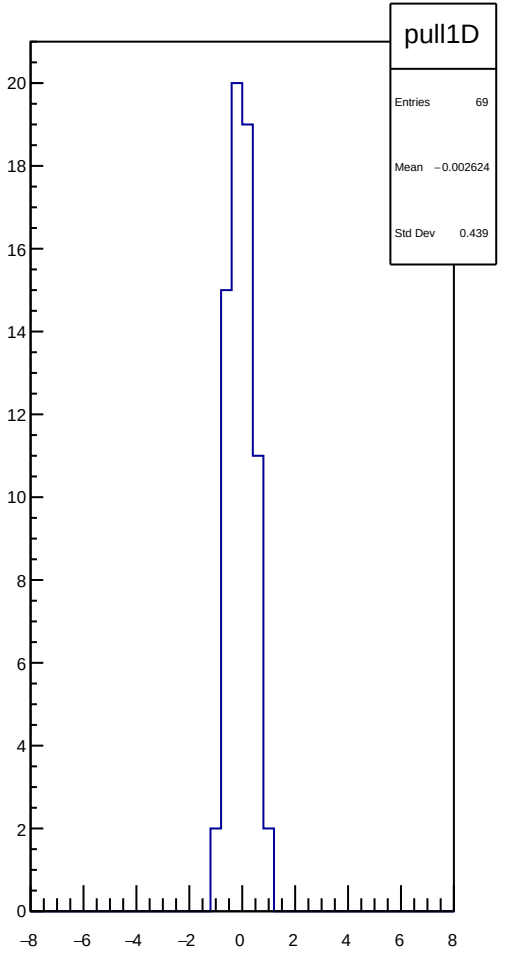

asym_bcm_an_us_rms vs run
$\chi^2$ / ndf 3.311e+04 / 68
p0 218.7 ± 0.1897
700
600
500
400
300
200

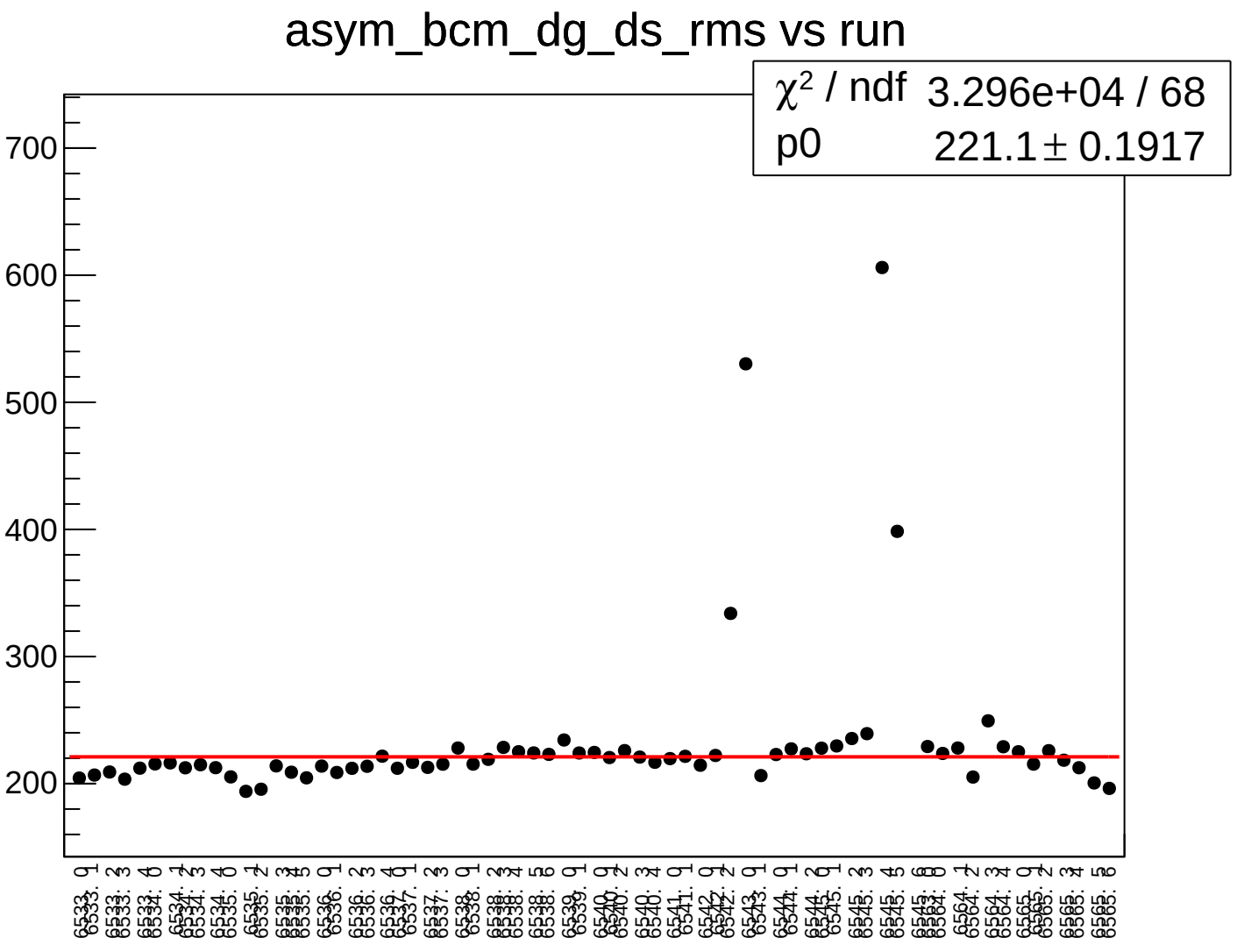

asym_bcm_dg_us_mean vs run
χ² / ndf 13.05 / 68
p0 −429.3 ± 276.5
pull
Entries 69
Mean 404.4
Std Dev 368.4

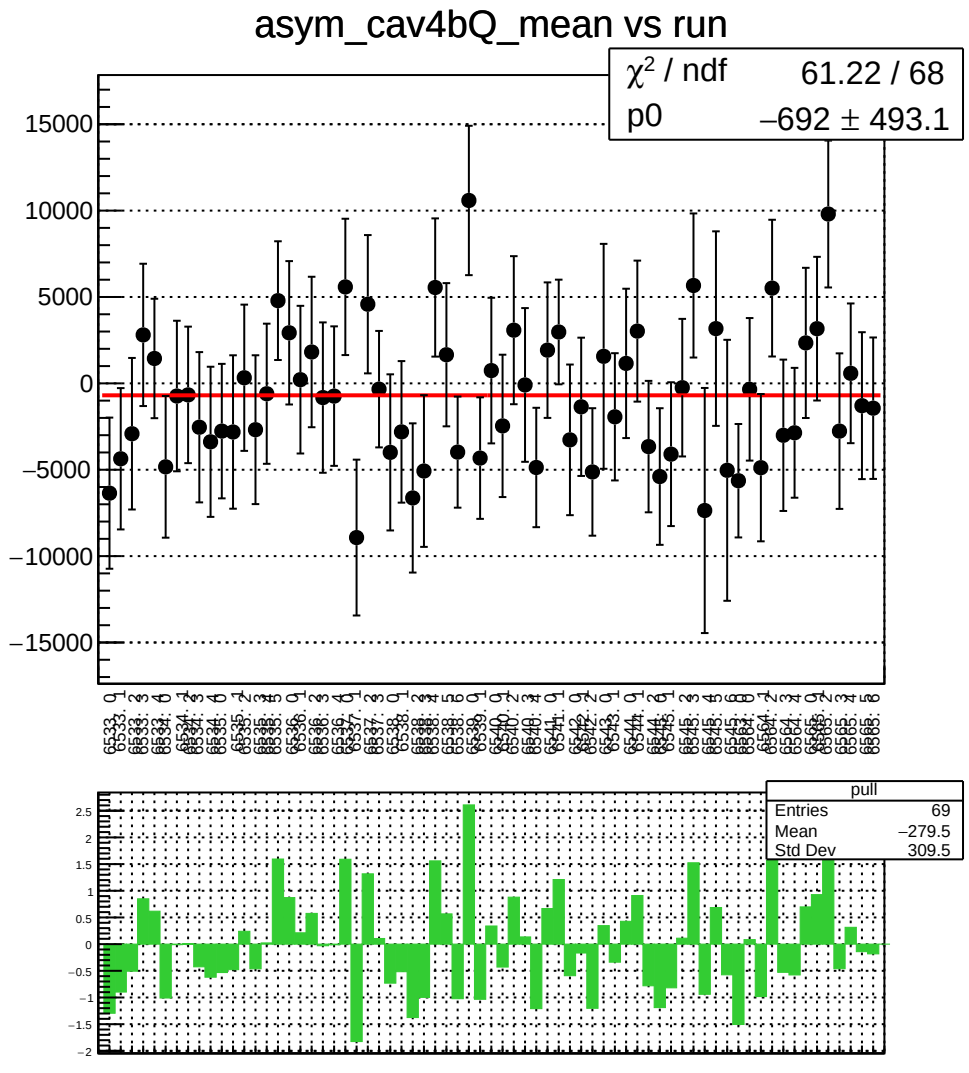

pull1D
Entries 69
Mean −0.002945
Std Dev 0.4349

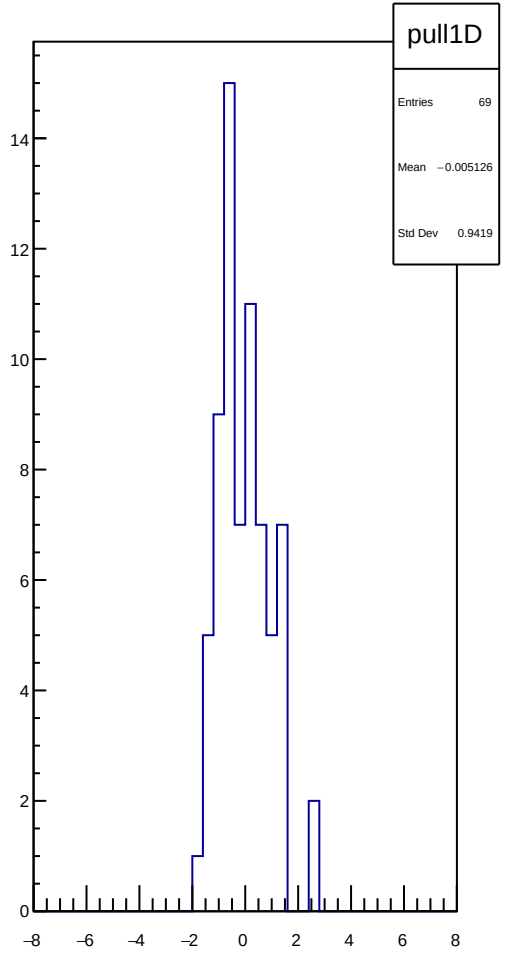

asym_bcm_dg_us_rms vs run
χ² / ndf 3.217e+04 / 68
p0 225.5 ± 0.1955
700
600
500
400
300
200

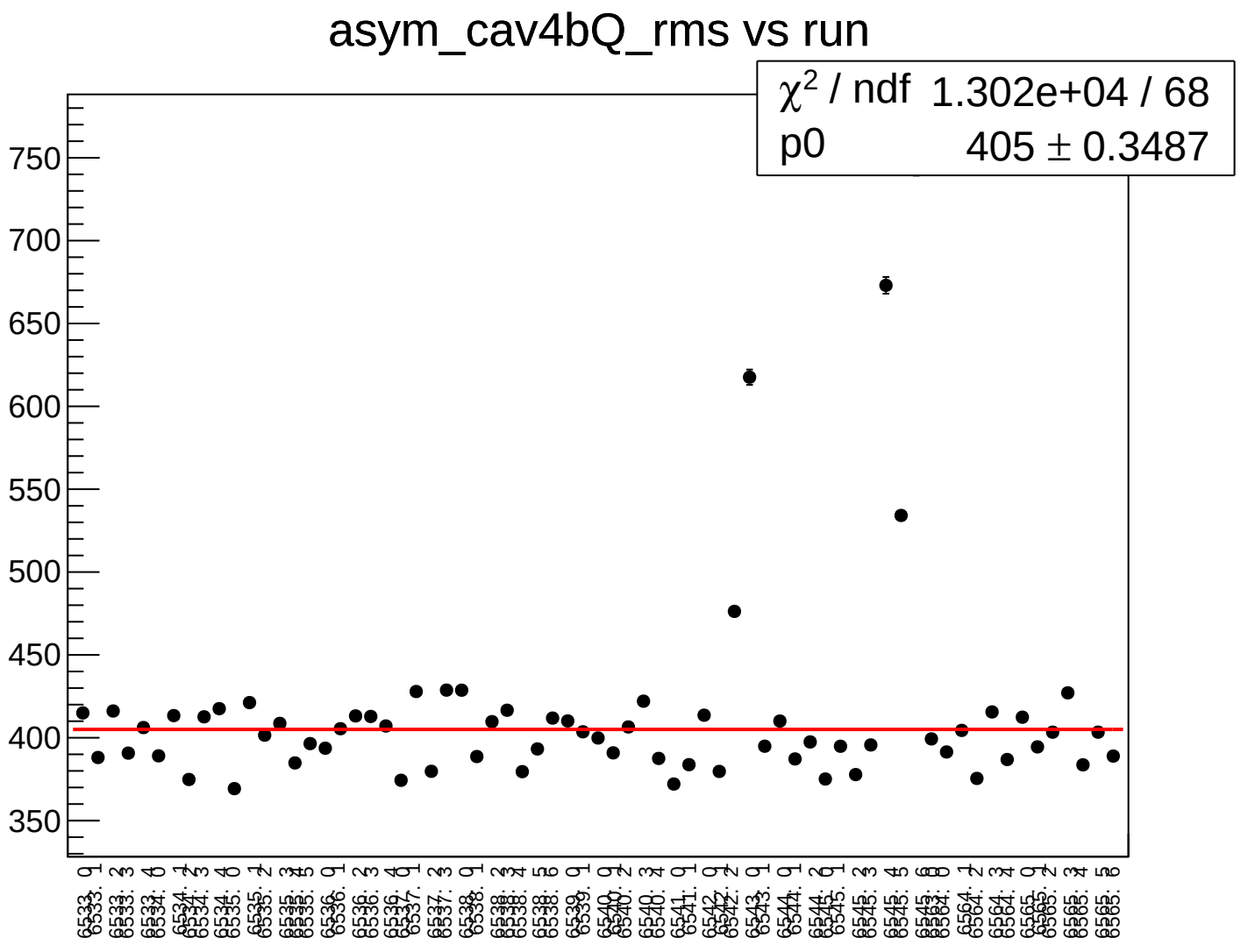

asym_bcm_dg_ds_mean vs run
χ² / ndf 13.3 / 68
p0 −459.1± 271.2
pull
Entries 69
Mean 617.2
Std Dev 577.6

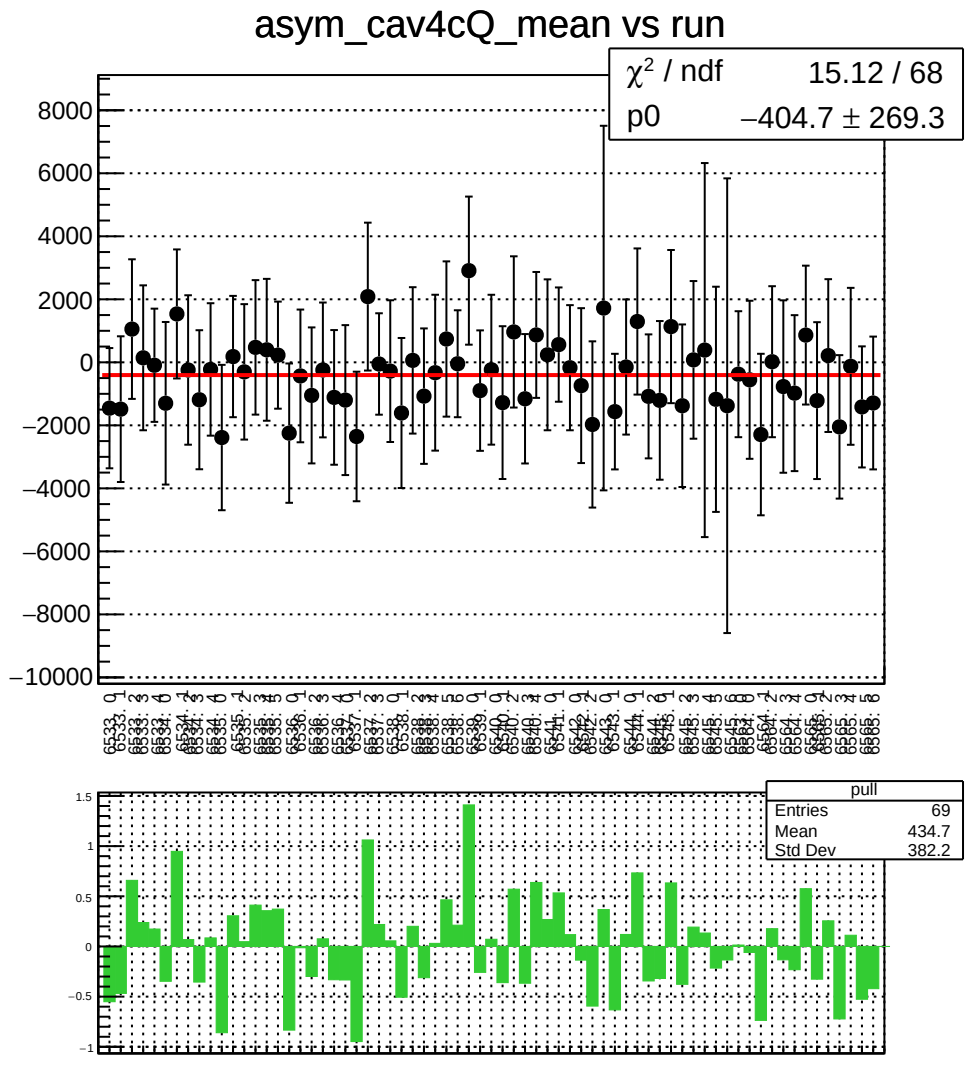

pull1D
Entries 69
Mean −0.002624
Std Dev 0.439

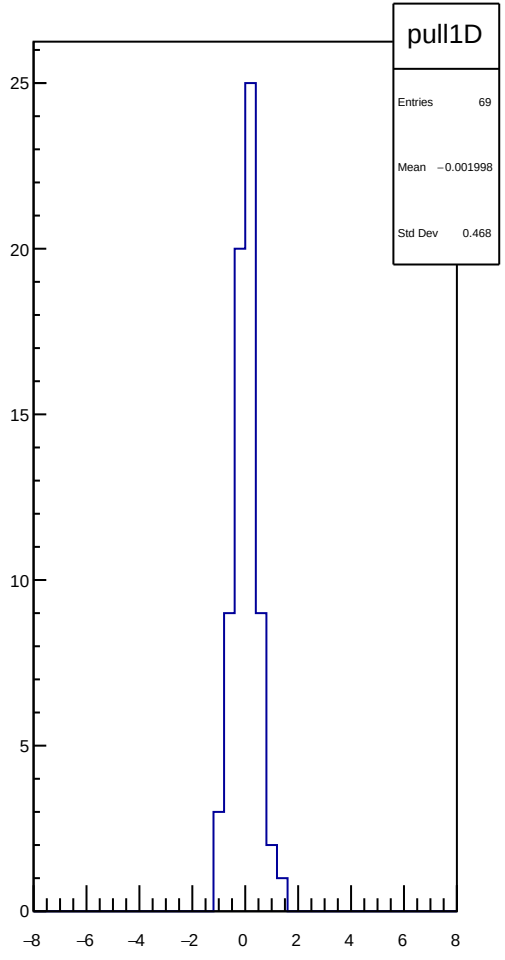

asym_bcm_dg_ds_rms vs run
χ² / ndf 3.296e+04 / 68
p0 221.1 ± 0.1917
700
600
500
400
300
200

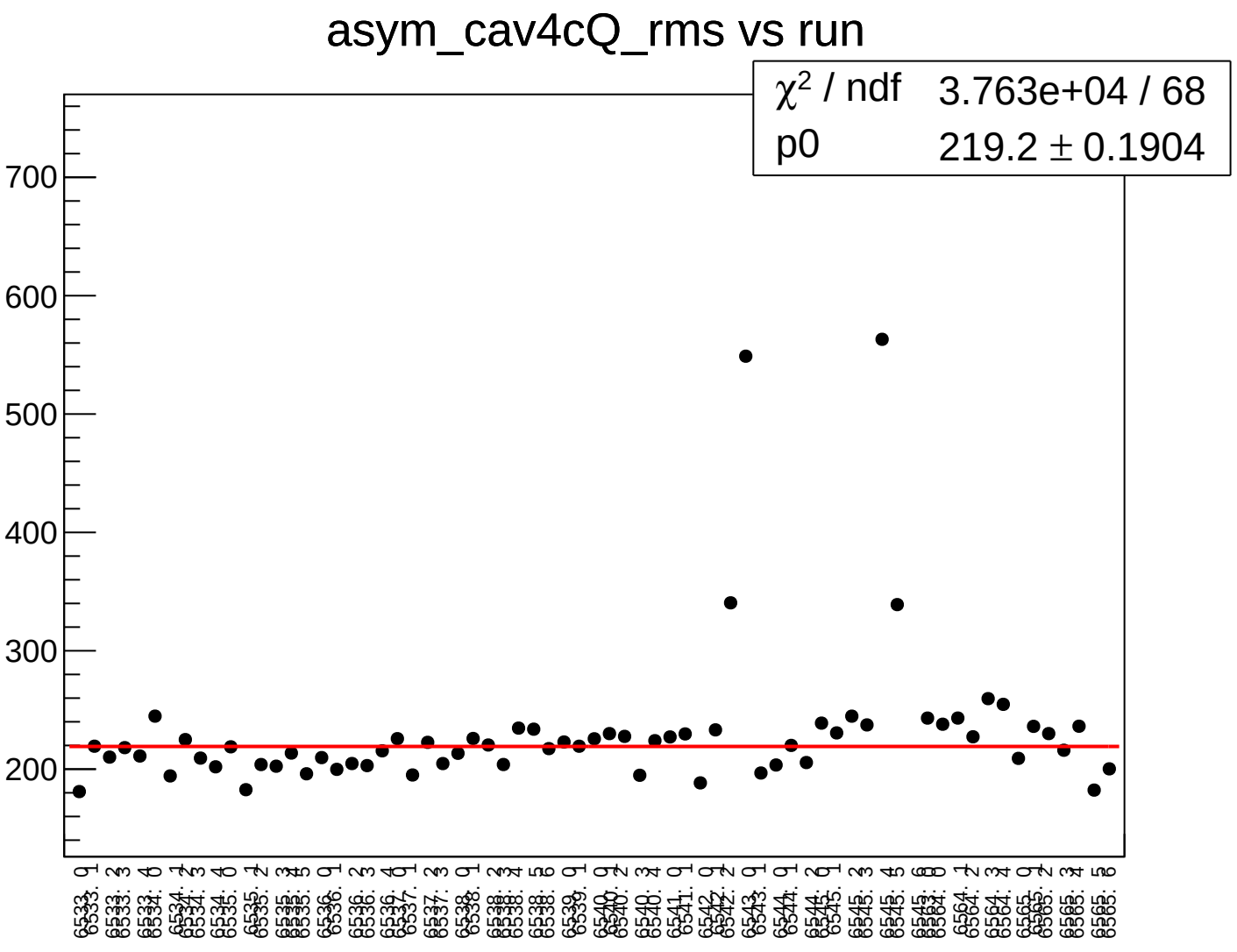

asym_cav4bQ_mean vs run
χ² / ndf 61.22 / 68
p0 −692 ± 493.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 69
Mean −279.5
Std Dev 309.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

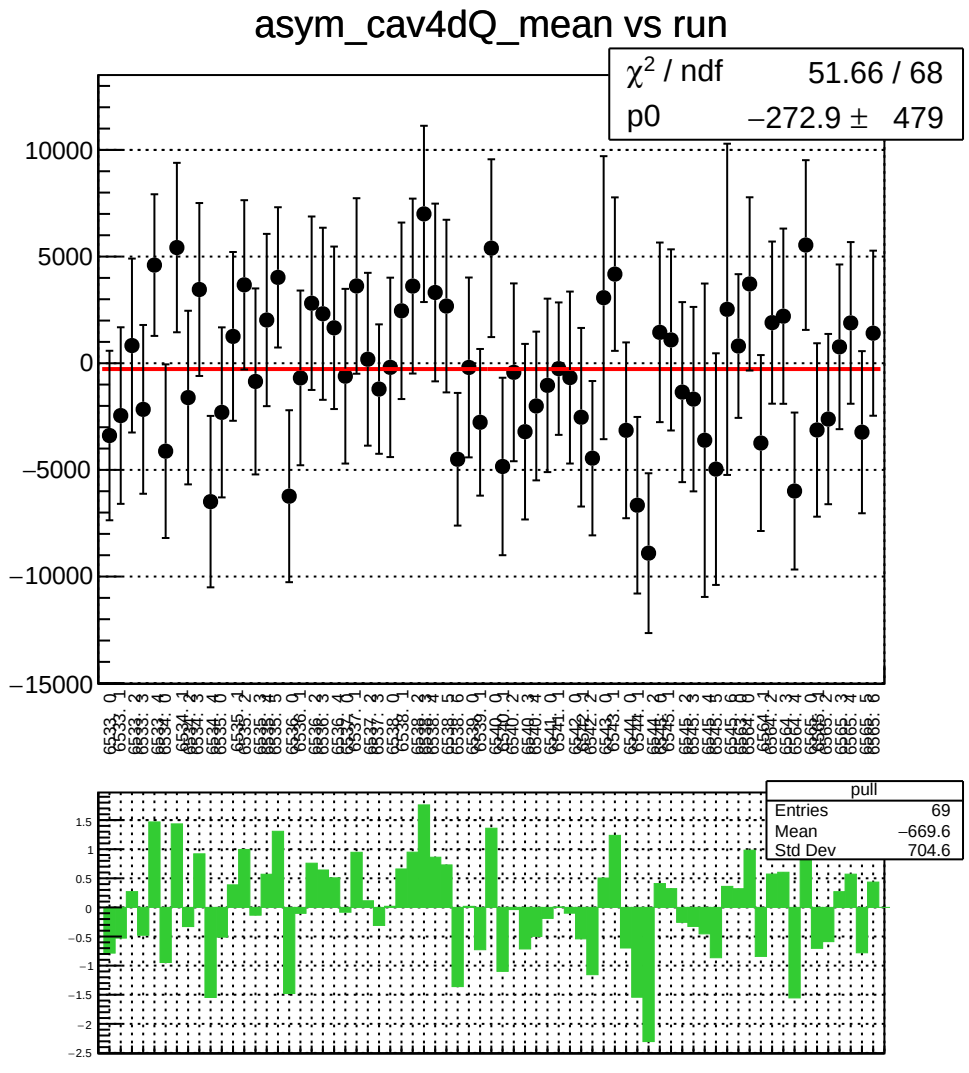

pull1D
Entries 69
Mean −0.005126
Std Dev 0.9419
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

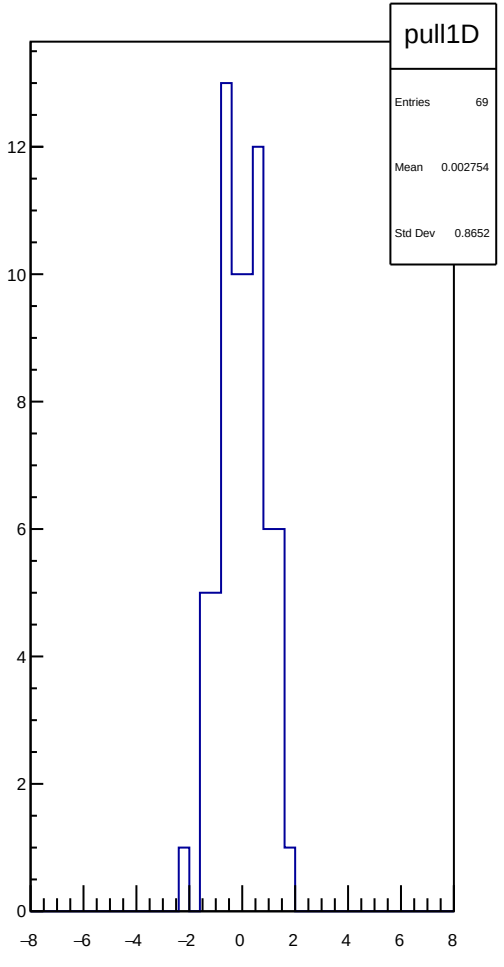

asym_cav4bQ_rms vs run
χ² / ndf 1.302e+04 / 68
p0 405 ± 0.3487
750
700
650
600
550
500
450
400
350

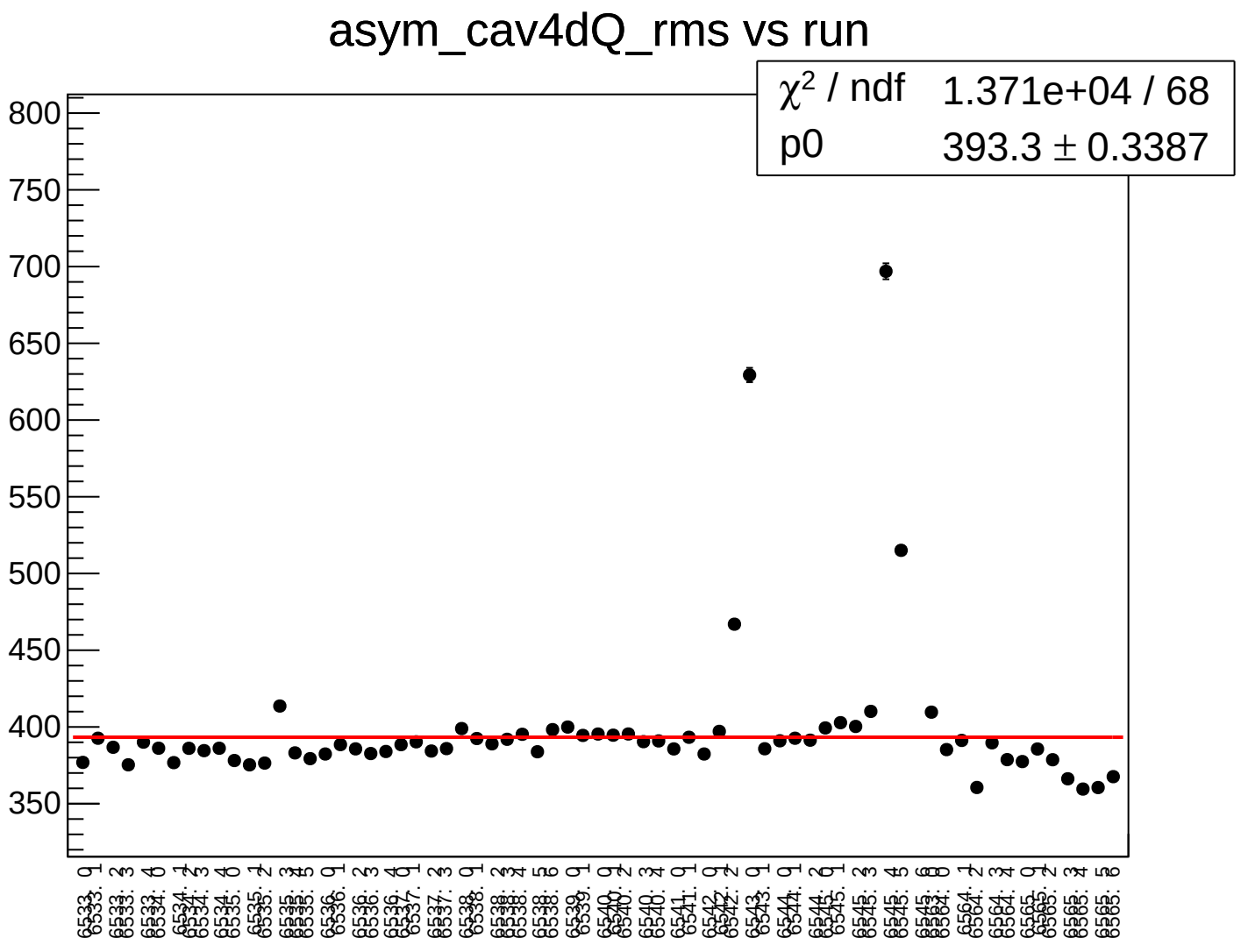

asym_cav4cQ_mean vs run
χ² / ndf 15.12 / 68
p0 −404.7 ± 269.3
pull
Entries 69
Mean 434.7
Std Dev 382.2

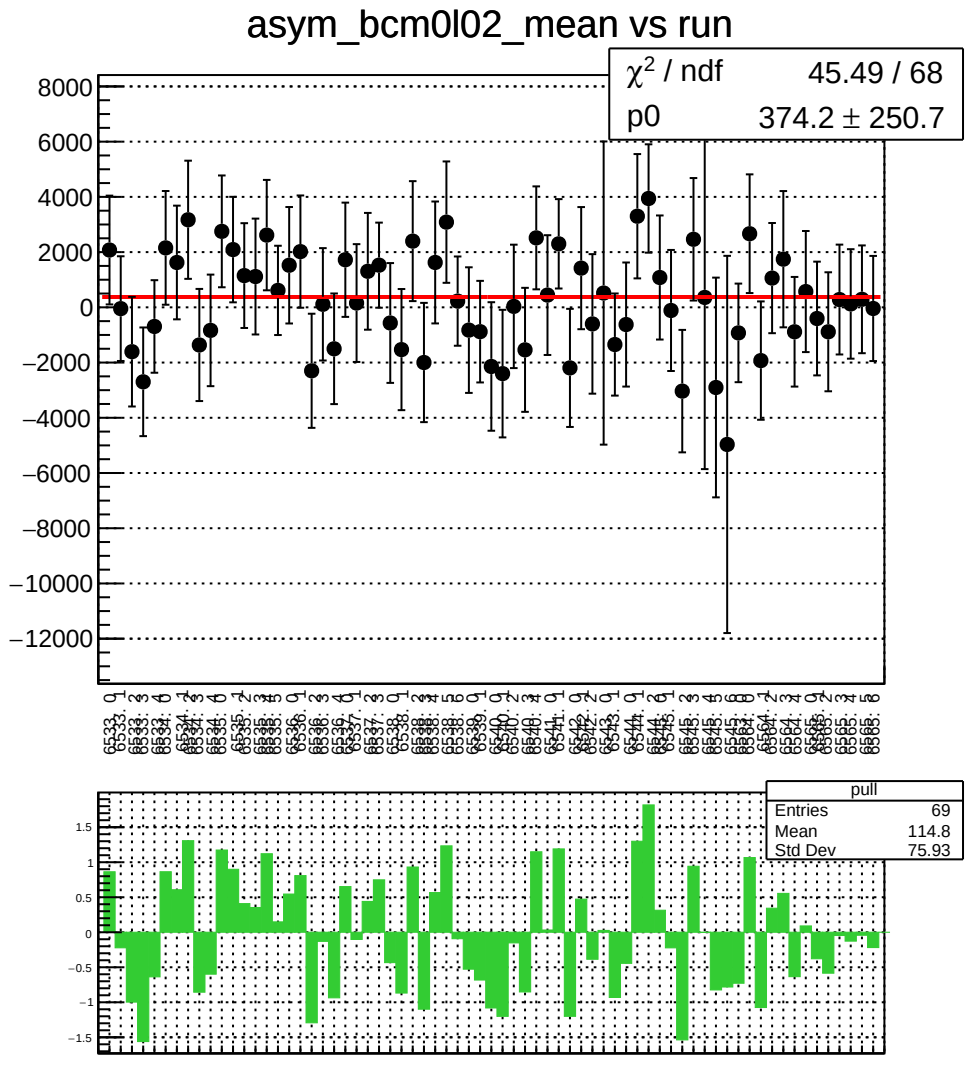

pull1D
Entries 69
Mean −0.001998
Std Dev 0.468

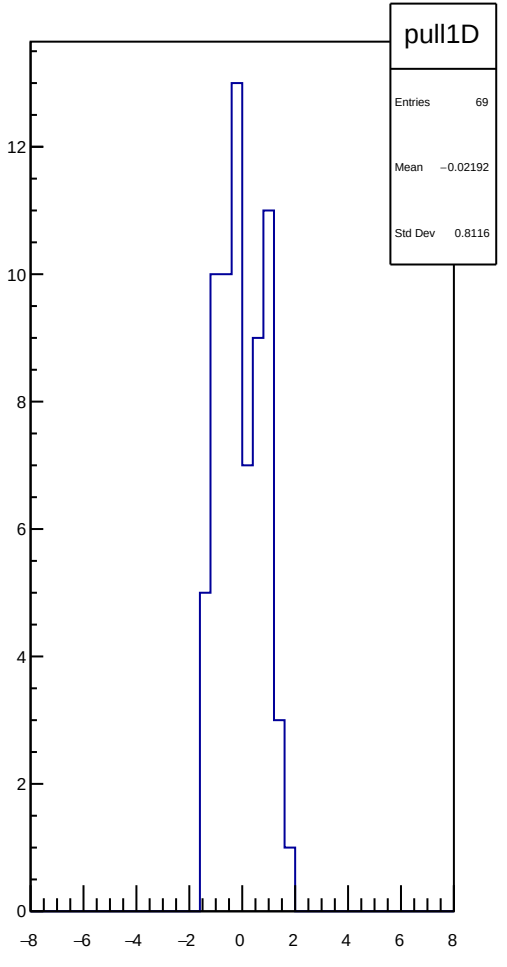

asym_cav4cQ_rms vs run
χ² / ndf 3.763e+04 / 68
p0 219.2 ± 0.1904
700
600
500
400
300
200

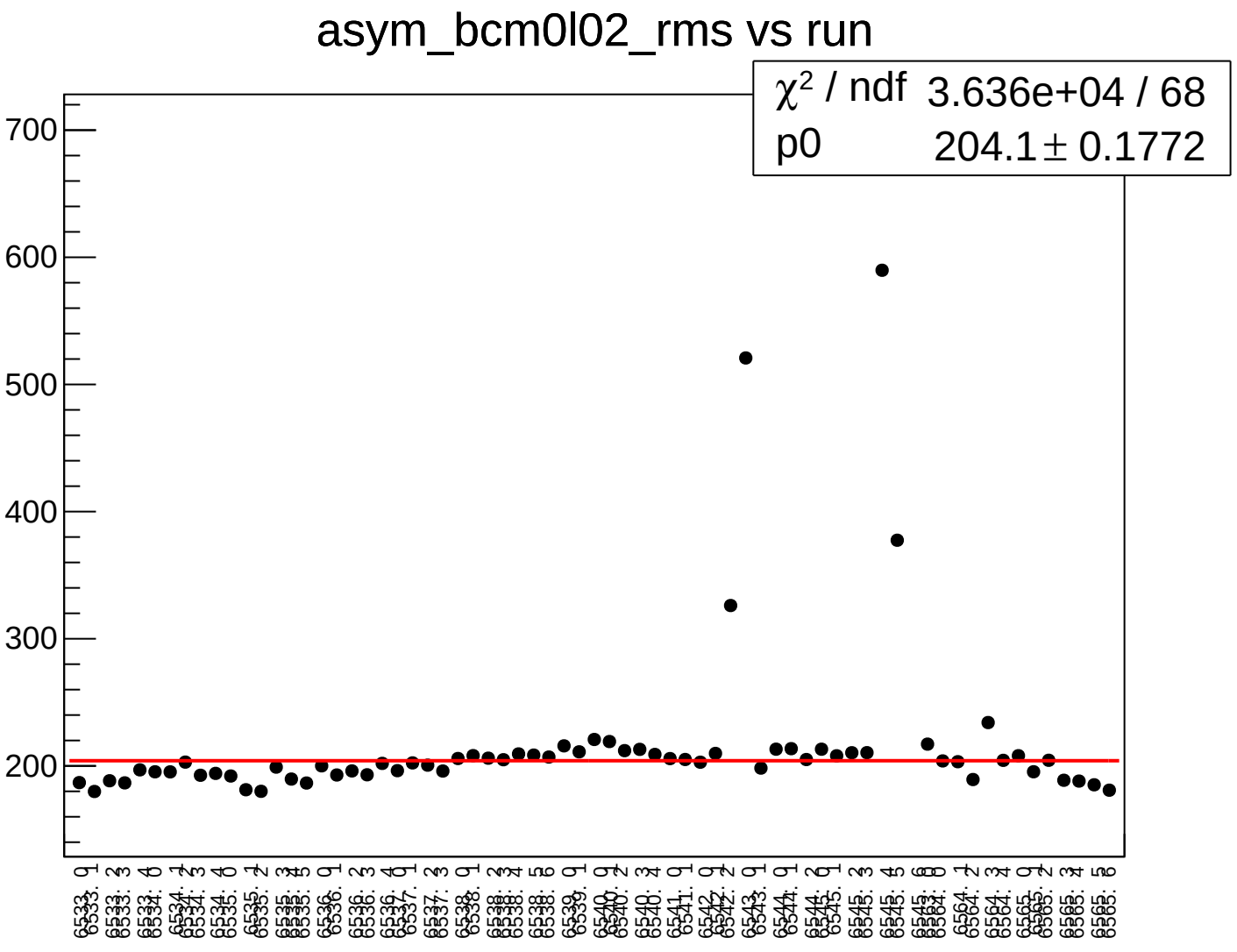

asym_cav4dQ_mean vs run
χ² / ndf 51.66 / 68
p0 −272.9 ± 479
pull
Entries 69
Mean −669.6
Std Dev 704.6

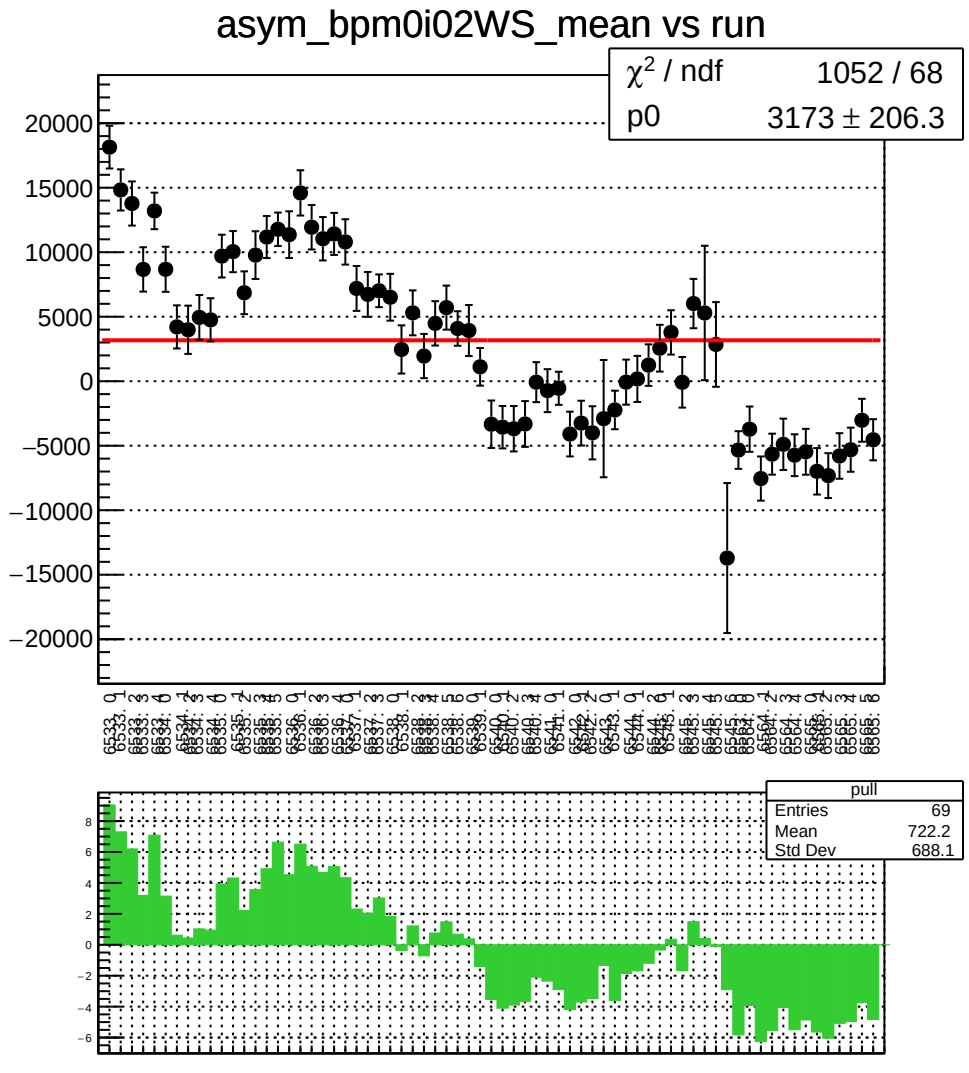

pull1D
Entries 69
Mean 0.002754
Std Dev 0.8652

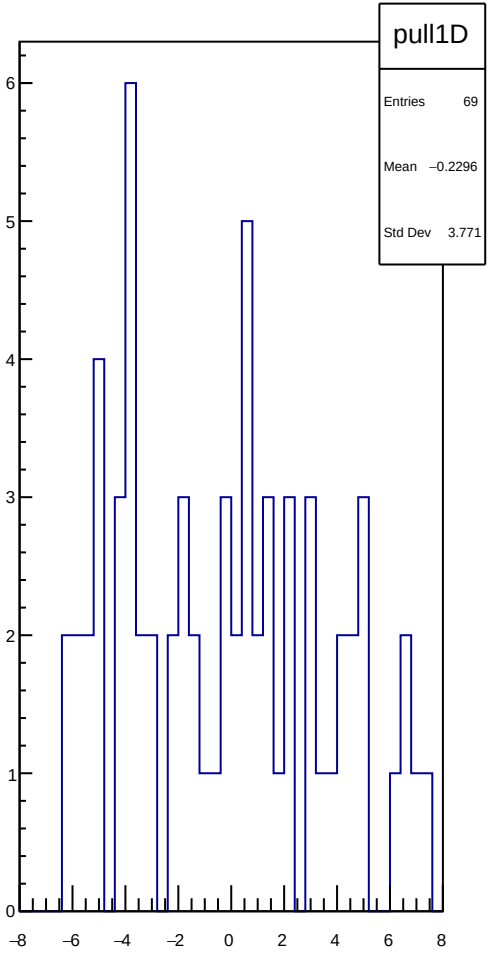

asym_cav4dQ_rms vs run
χ² / ndf 1.371e+04 / 68
p0 393.3 ± 0.3387
800
750
700
650
600
550
500
450
400
350

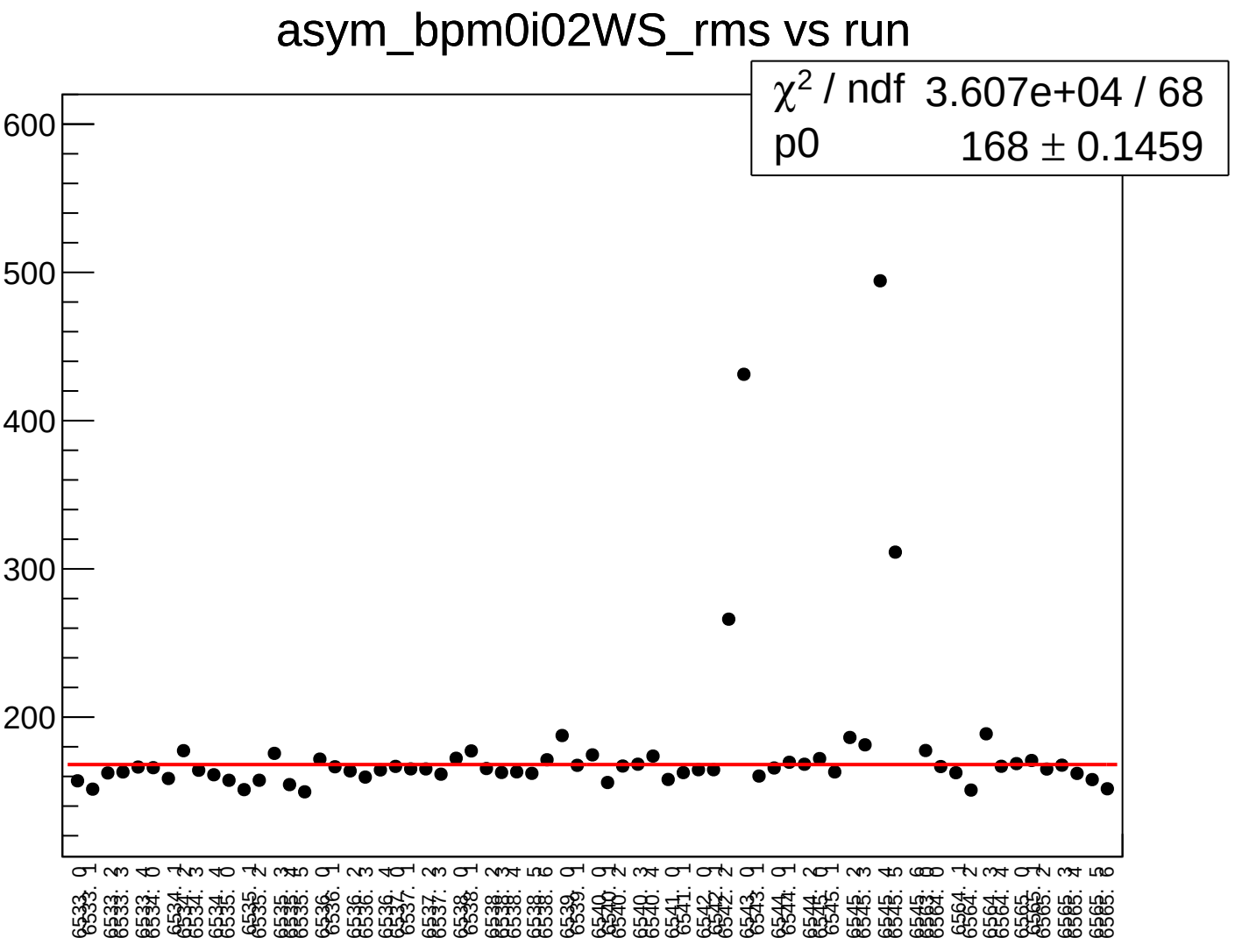

asym_bcm0l02_mean vs run
χ² / ndf 45.49 / 68
p0 374.2 ± 250.7
pull
Entries 69
Mean 114.8
Std Dev 75.93

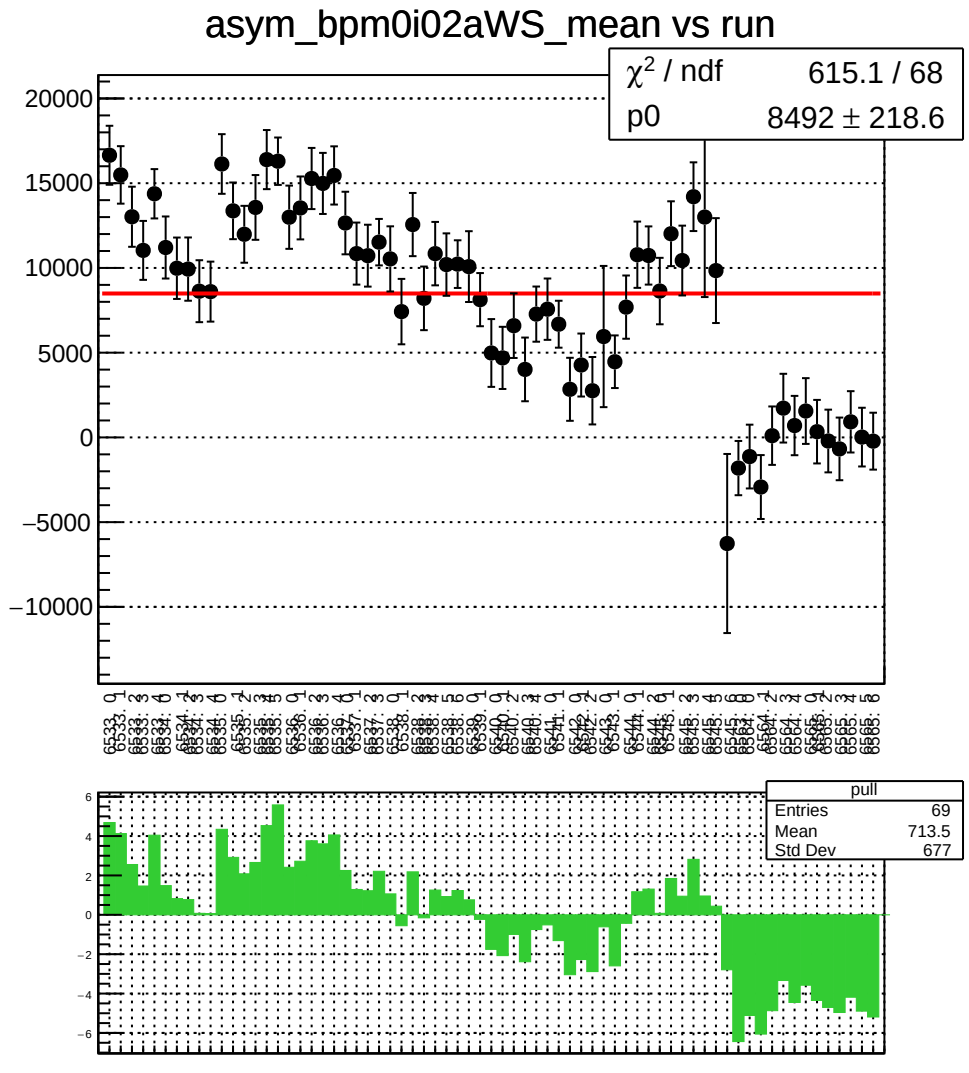

pull1D
Entries 69
Mean −0.02192
Std Dev 0.8116

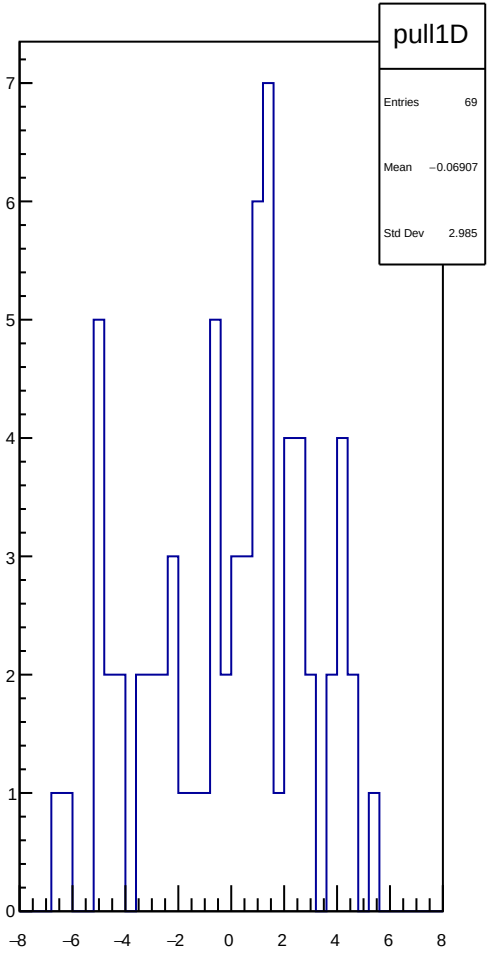

asym_bcm0l02_rms vs run
χ² / ndf 3.636e+04 / 68
p0 204.1 ± 0.1772
700
600
500
400
300
200

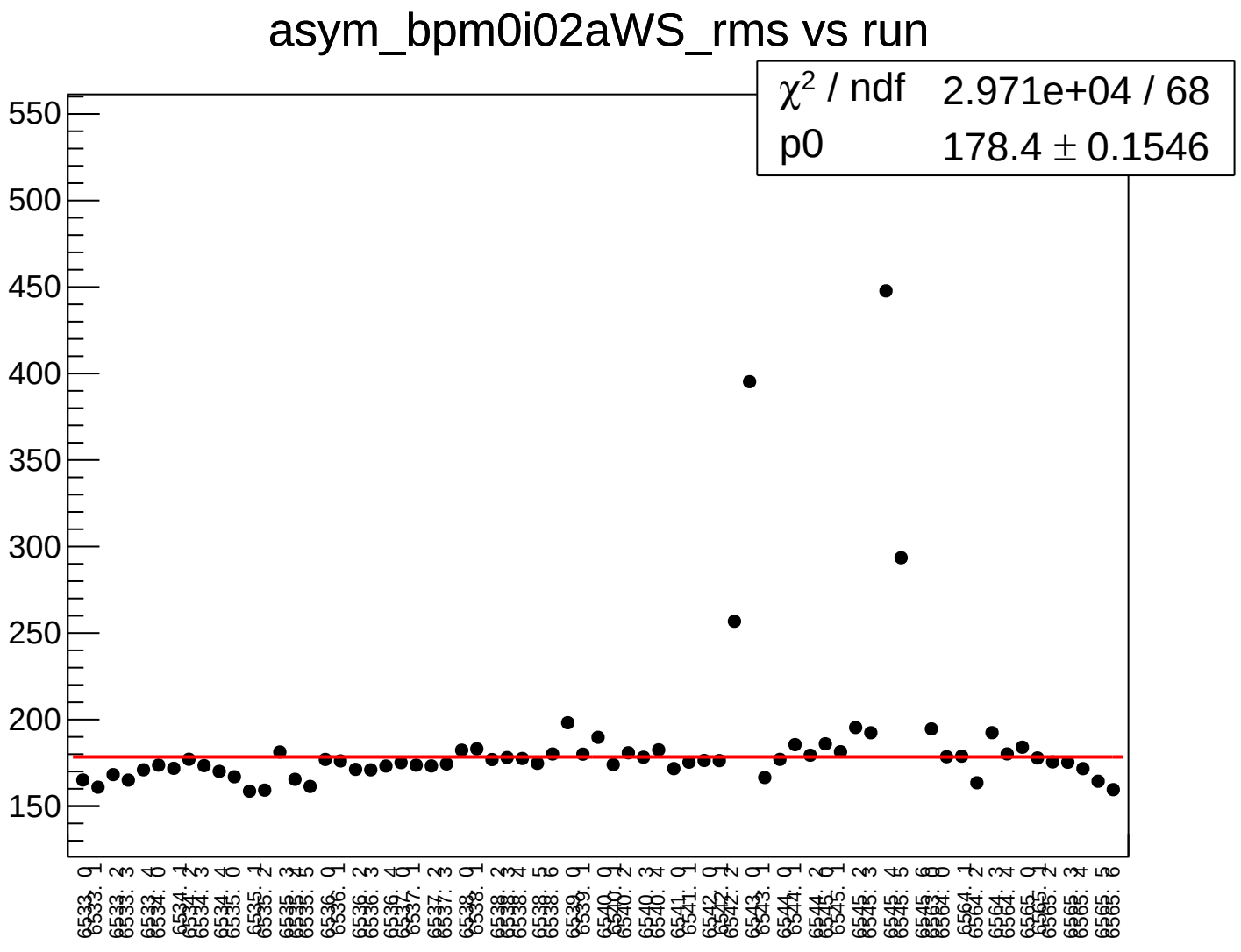

asym_bpm0i02WS_mean vs run
χ² / ndf 1052 / 68
p0 3173 ± 206.3
pull
Entries 69
Mean 722.2
Std Dev 688.1

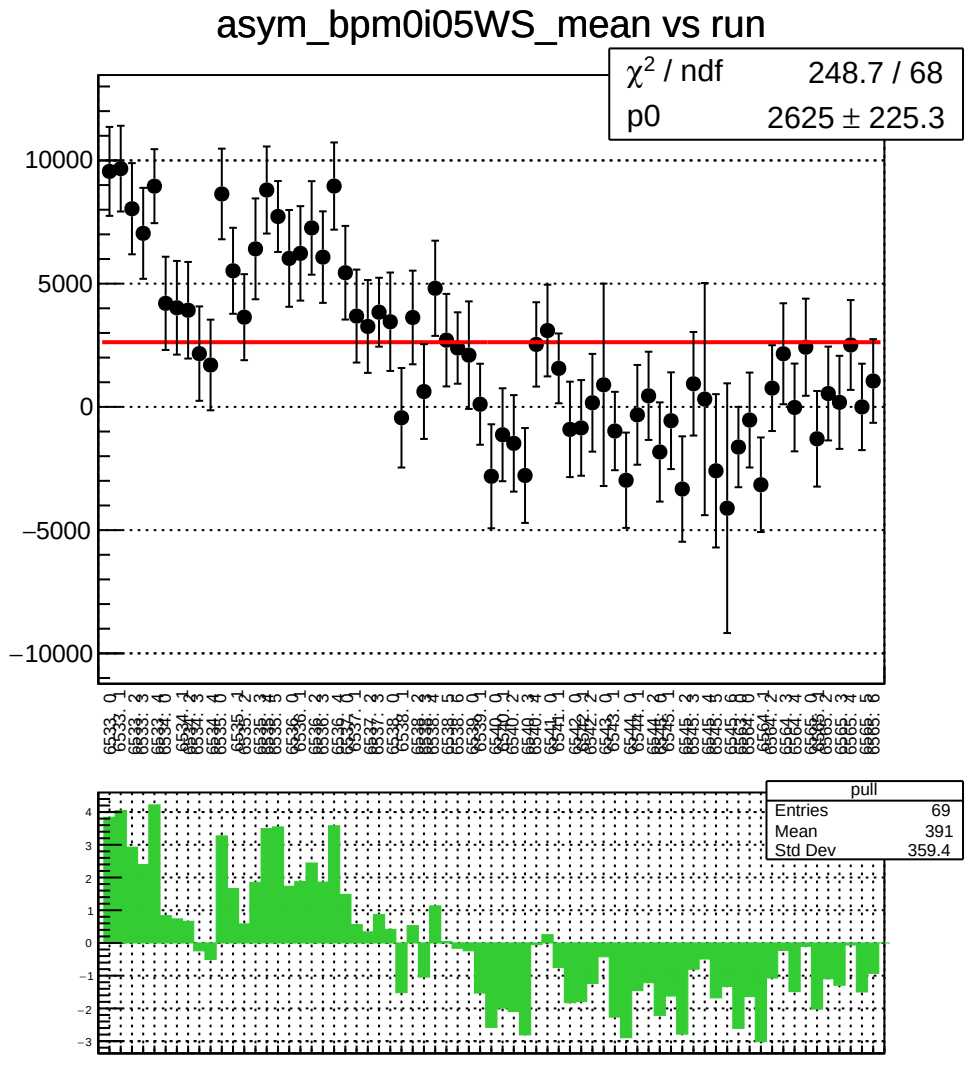

pull1D
Entries 69
Mean −0.2296
Std Dev 3.771

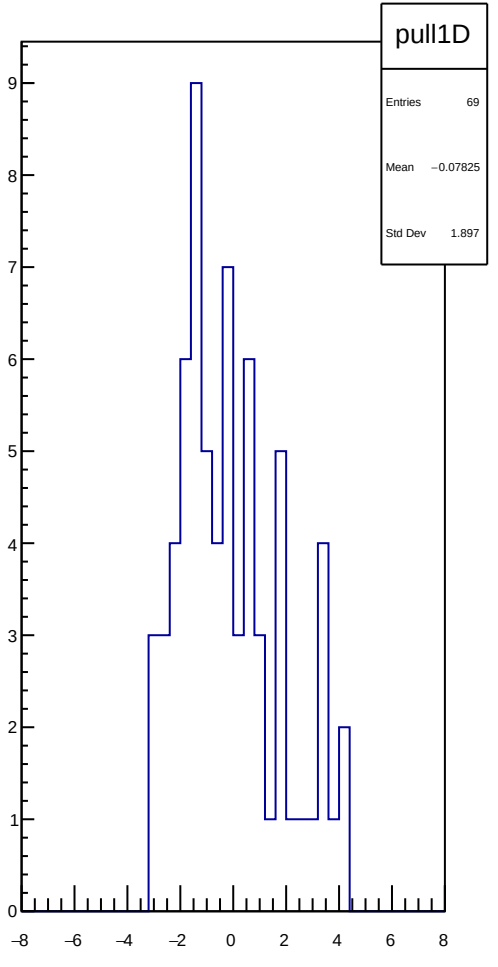

asym_bpm0i02WS_rms vs run
$\chi^2$ / ndf 3.607e+04 / 68
p0 168 ± 0.1459
600
500
400
300
200

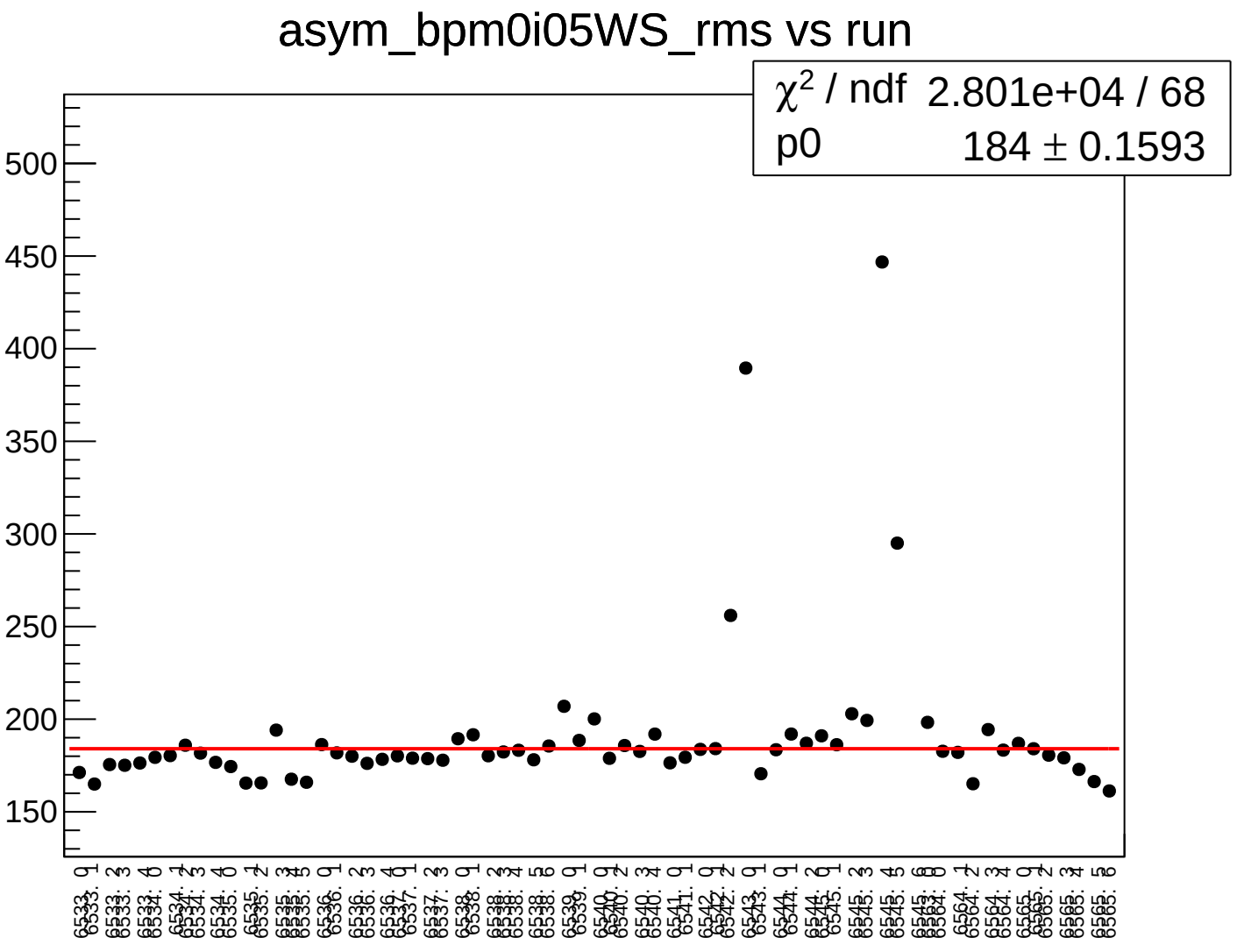

asym_bpm0i02aWS_mean vs run
χ² / ndf 615.1 / 68
p0 8492 ± 218.6
pull
Entries 69
Mean 713.5
Std Dev 677

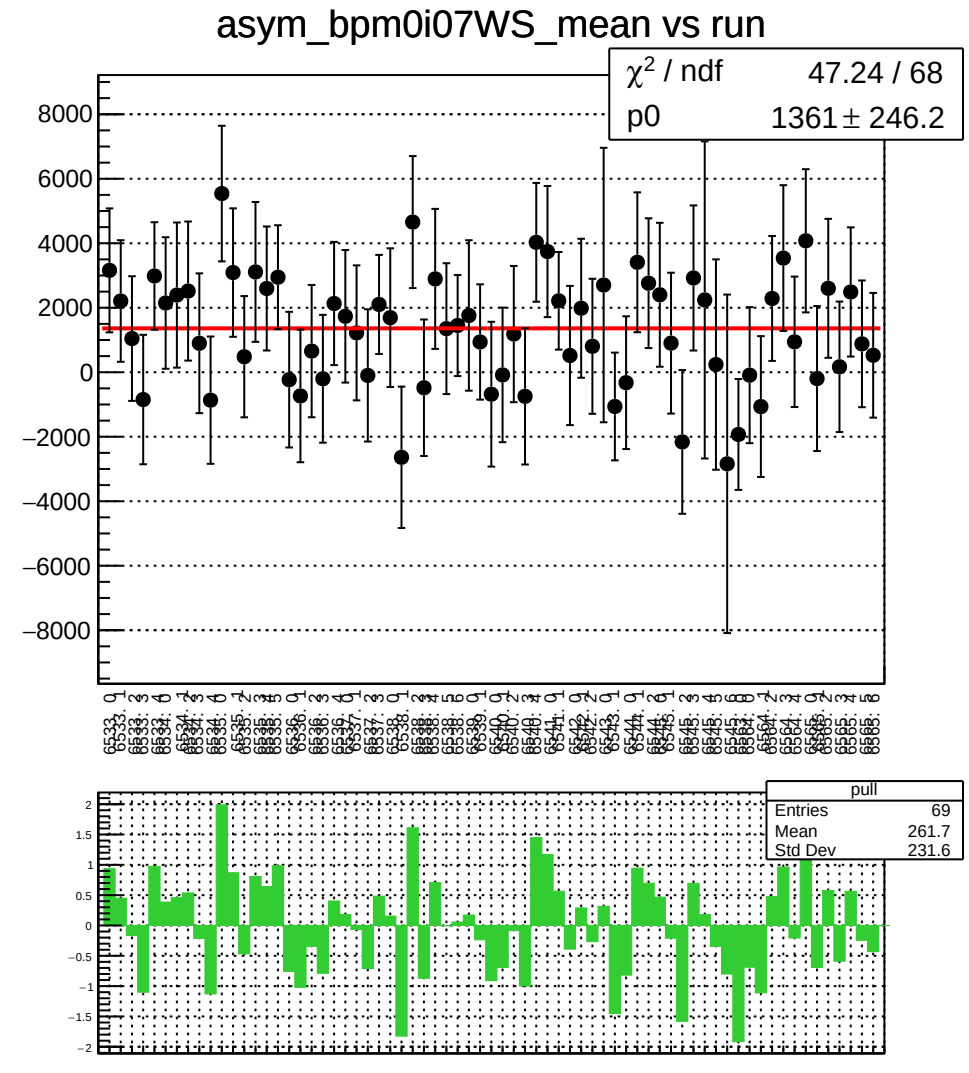

pull1D
Entries 69
Mean −0.06907
Std Dev 2.985

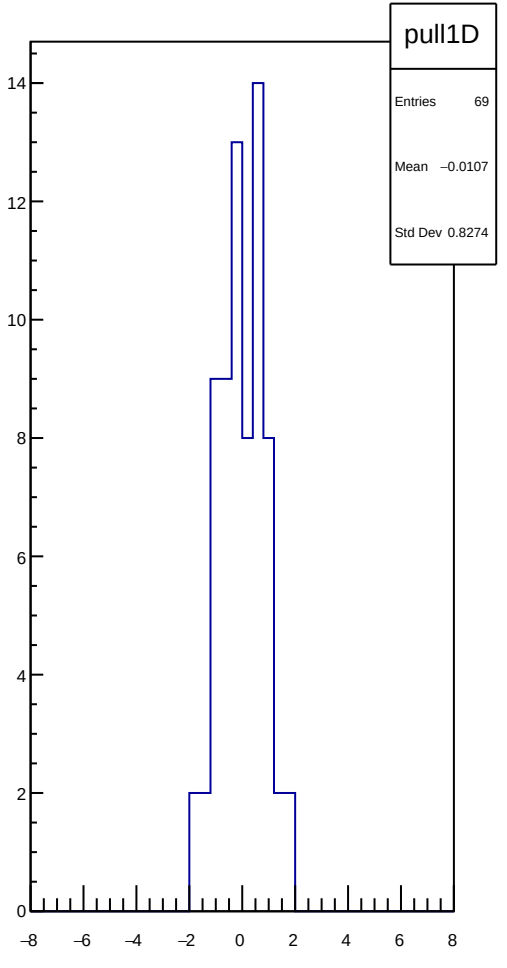

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.971e+04 / 68
p0 178.4 ± 0.1546
550
500
450
400
350
300
250
200
150

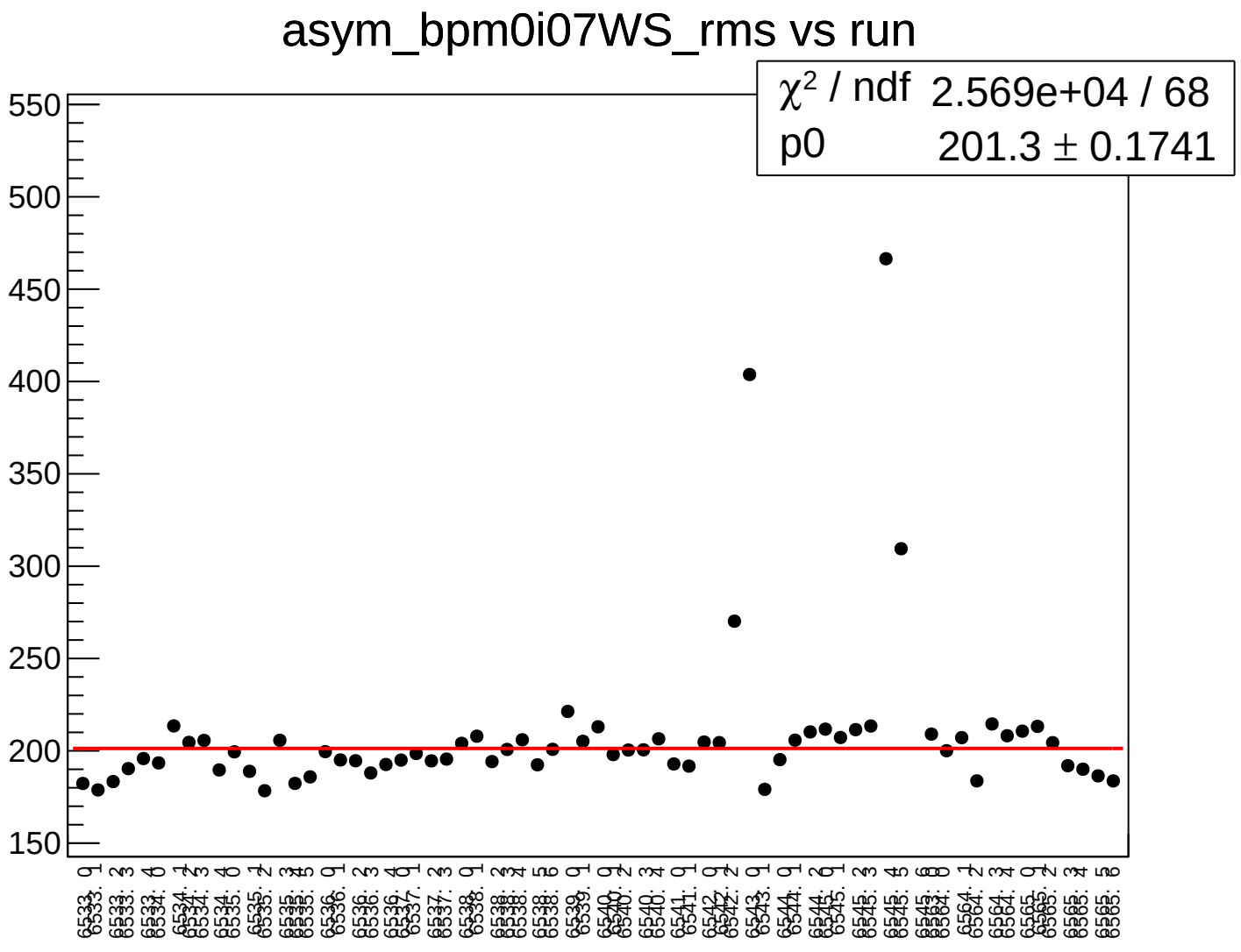

asym_bpm0i05WS_mean vs run
$\chi^2$ / ndf 248.7 / 68
p0 2625 ± 225.3
10000
5000
0
−5000
−10000
pull
Entries 69
Mean 391
Std Dev 359.4
4
3
2
1
0
−1
−2
−3

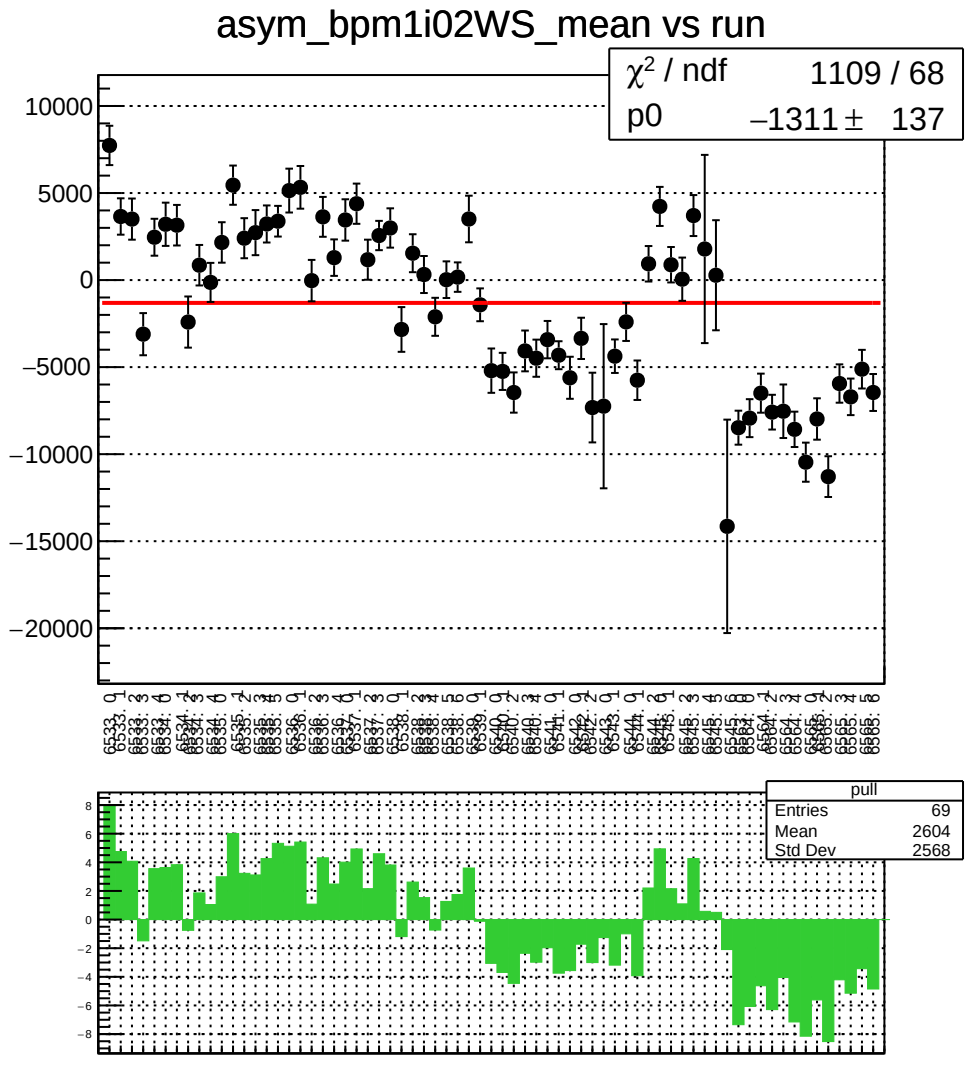

pull1D
Entries 69
Mean −0.07825
Std Dev 1.897
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

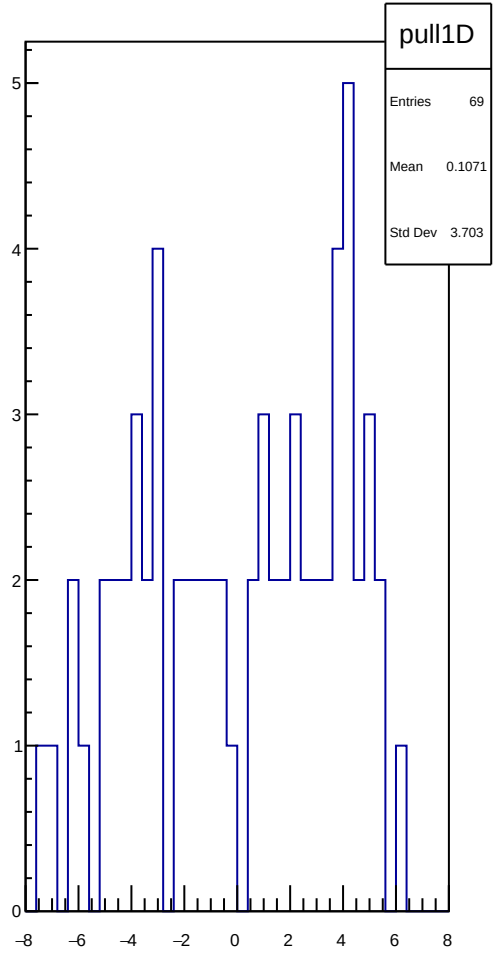

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 2.801e+04 / 68
p0 184 ± 0.1593
500
450
400
350
300
250
200
150

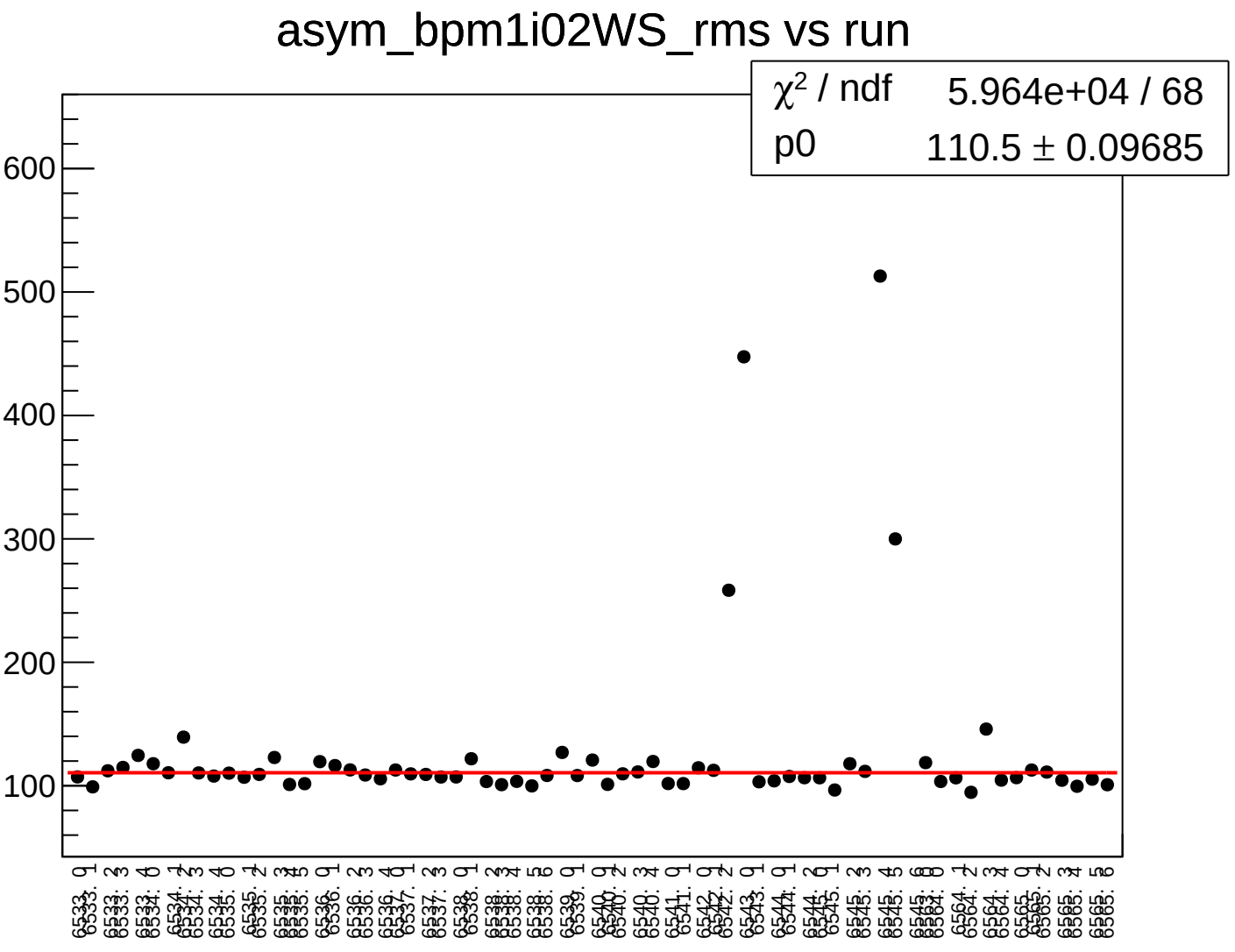

asym_bpm0i07WS_mean vs run
χ² / ndf 47.24 / 68
p0 1361 ± 246.2
pull
Entries 69
Mean 261.7
Std Dev 231.6

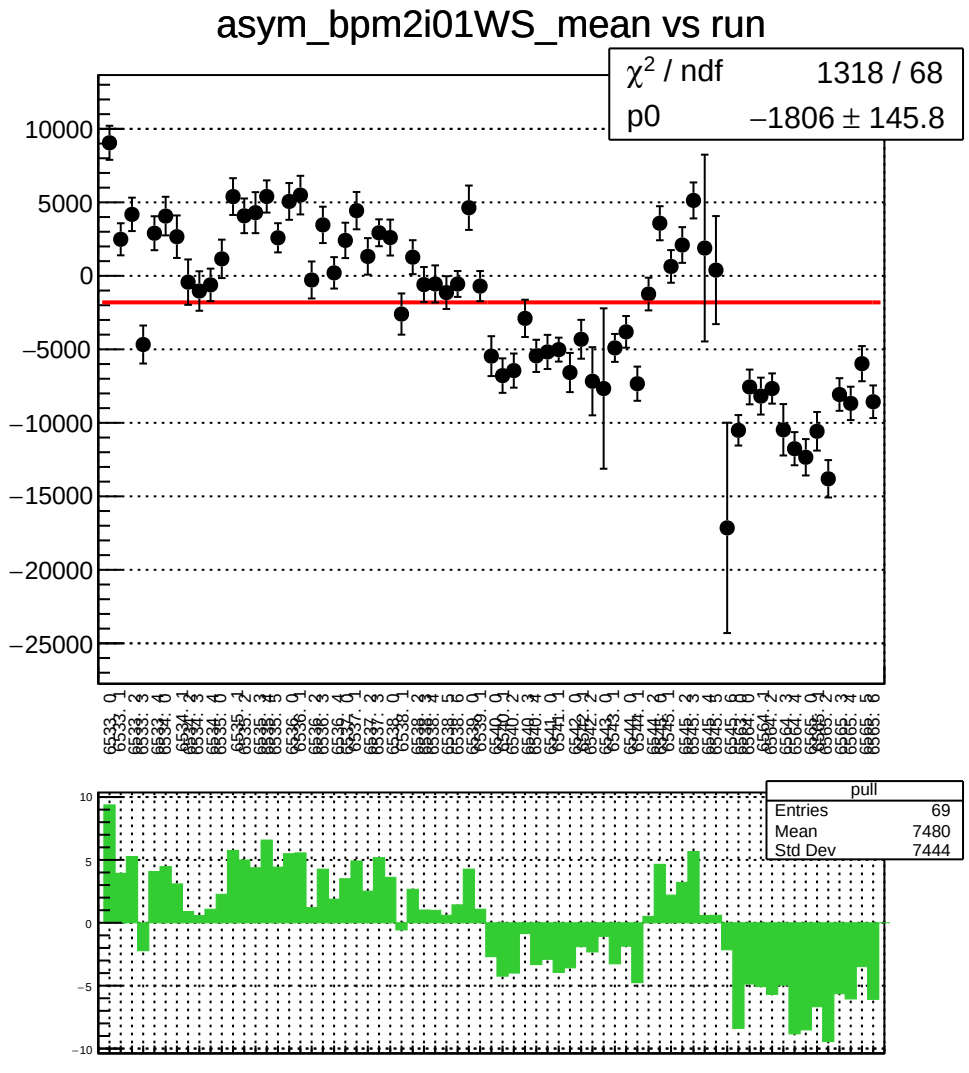

pull1D
Entries 69
Mean −0.0107
Std Dev 0.8274

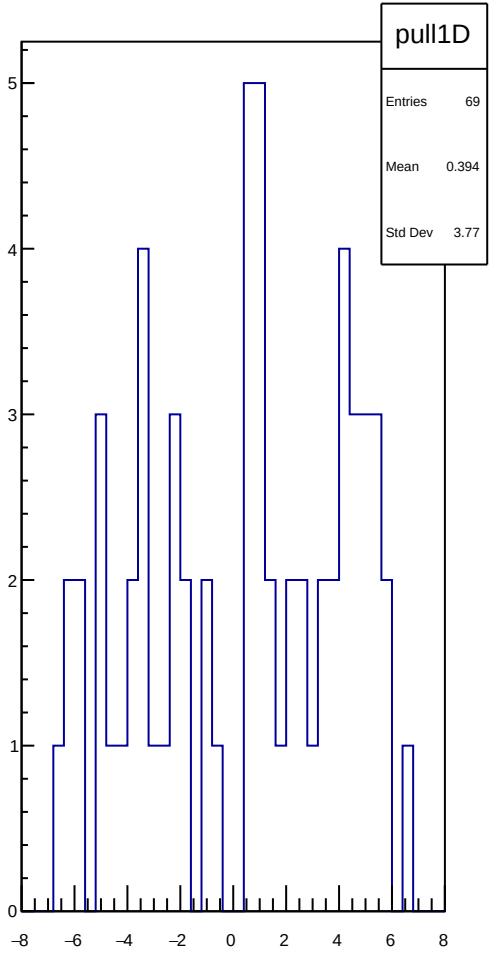

asym_bpm0i07WS_rms vs run
χ² / ndf 2.569e+04 / 68
p0 201.3 ± 0.1741
550
500
450
400
350
300
250
200
150

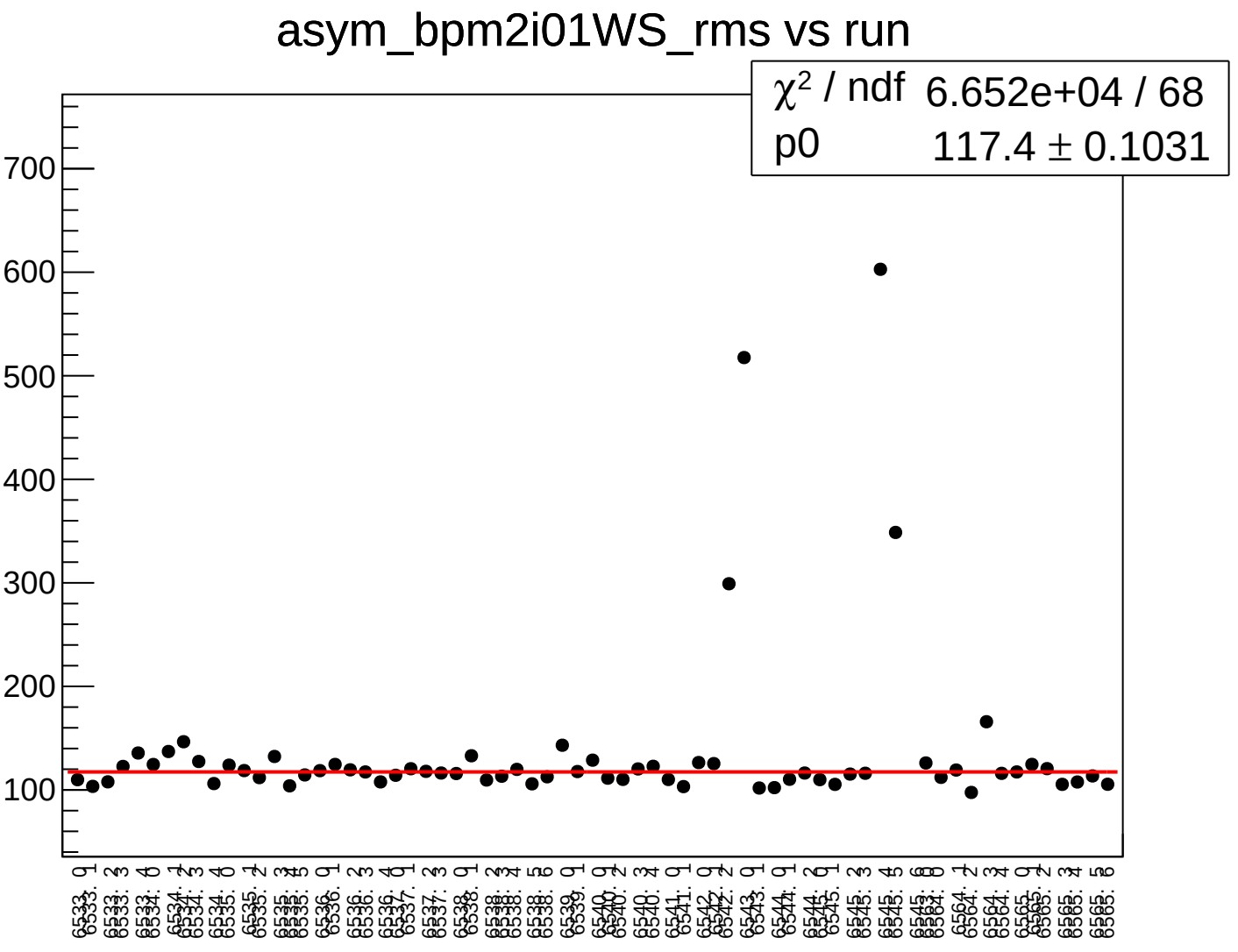

asym_bpm1i02WS_mean vs run
χ² / ndf 1109 / 68
p0 −1311 ± 137
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 69
Mean 2604
Std Dev 2568
8
6
4
2
0
−2
−4
−6
−8

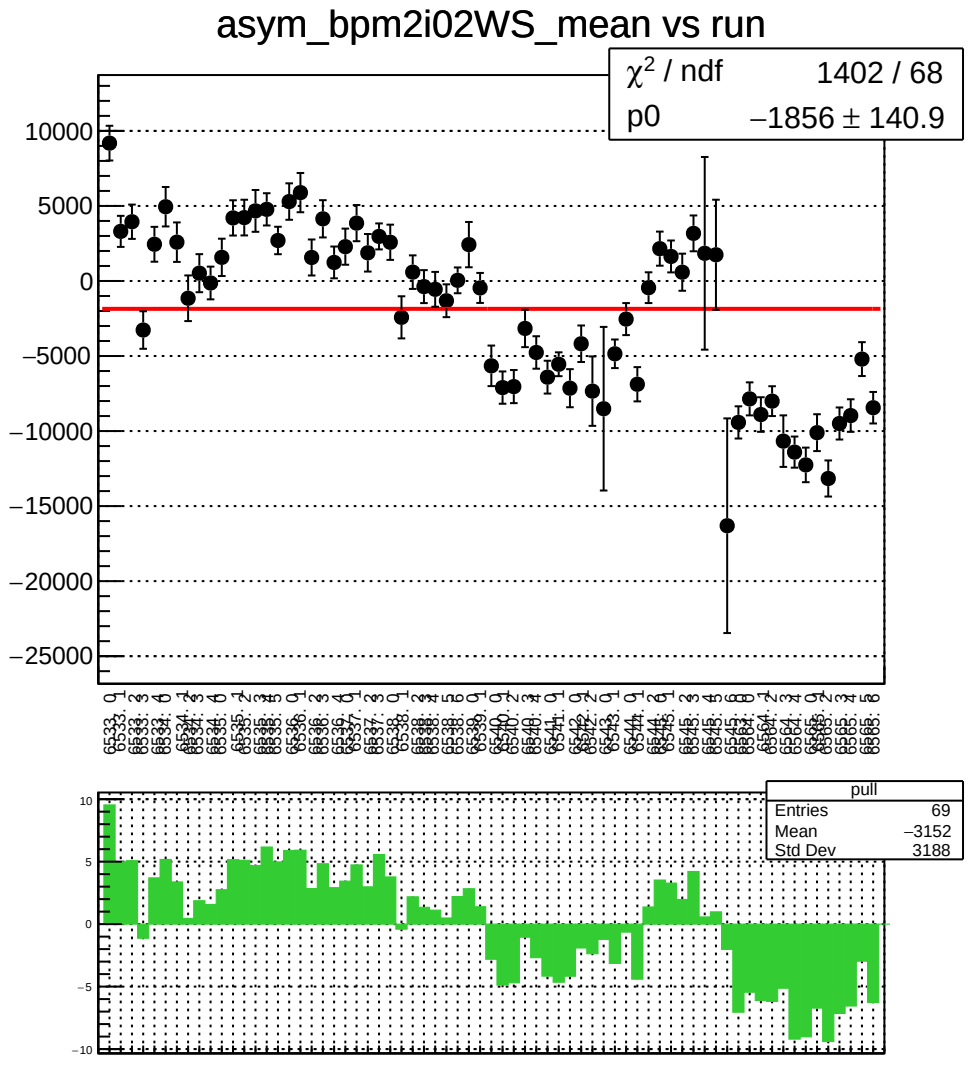

pull1D
Entries 69
Mean 0.1071
Std Dev 3.703
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

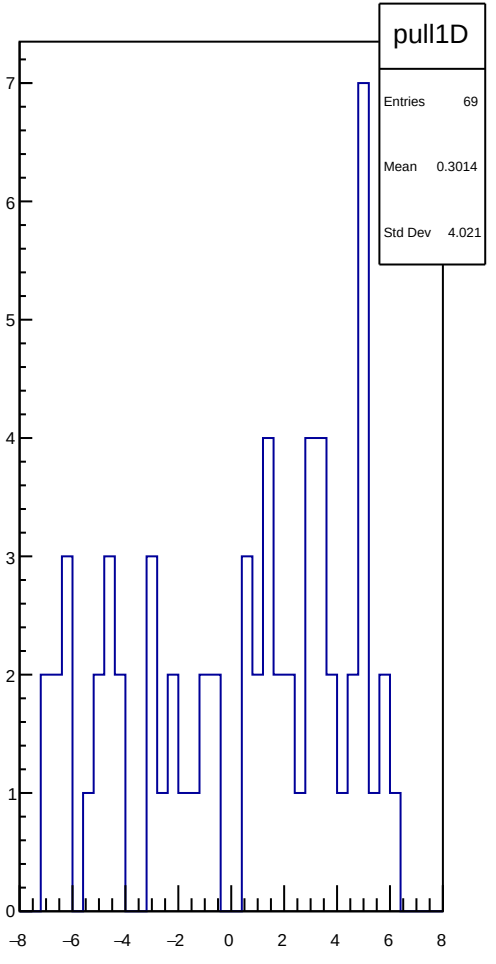

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 5.964e+04 / 68
p0 110.5 ± 0.09685
600
500
400
300
200
100

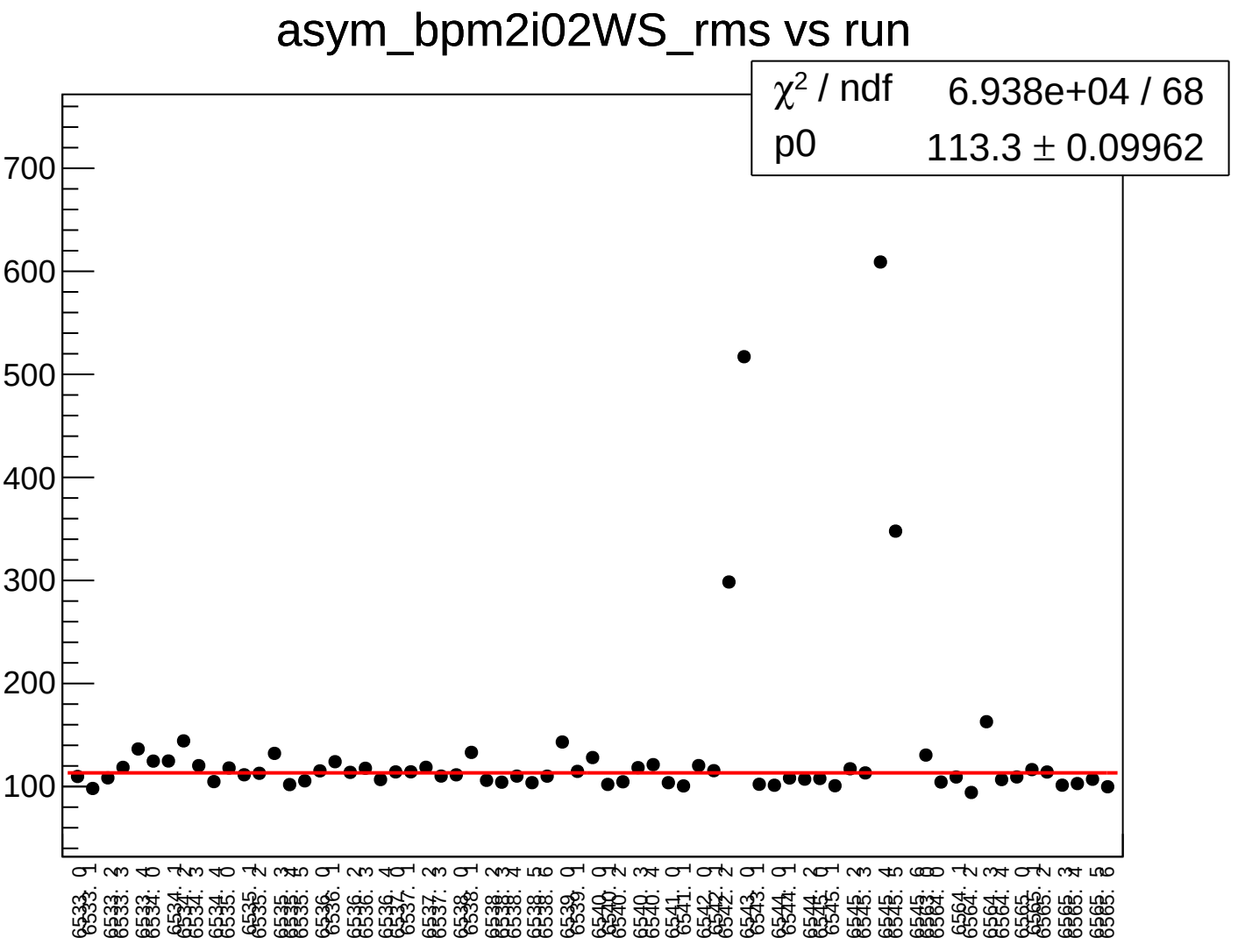

asym_bpm2i01WS_mean vs run
χ² / ndf 1318 / 68
p0 −1806 ± 145.8
pull
Entries 69
Mean 7480
Std Dev 7444

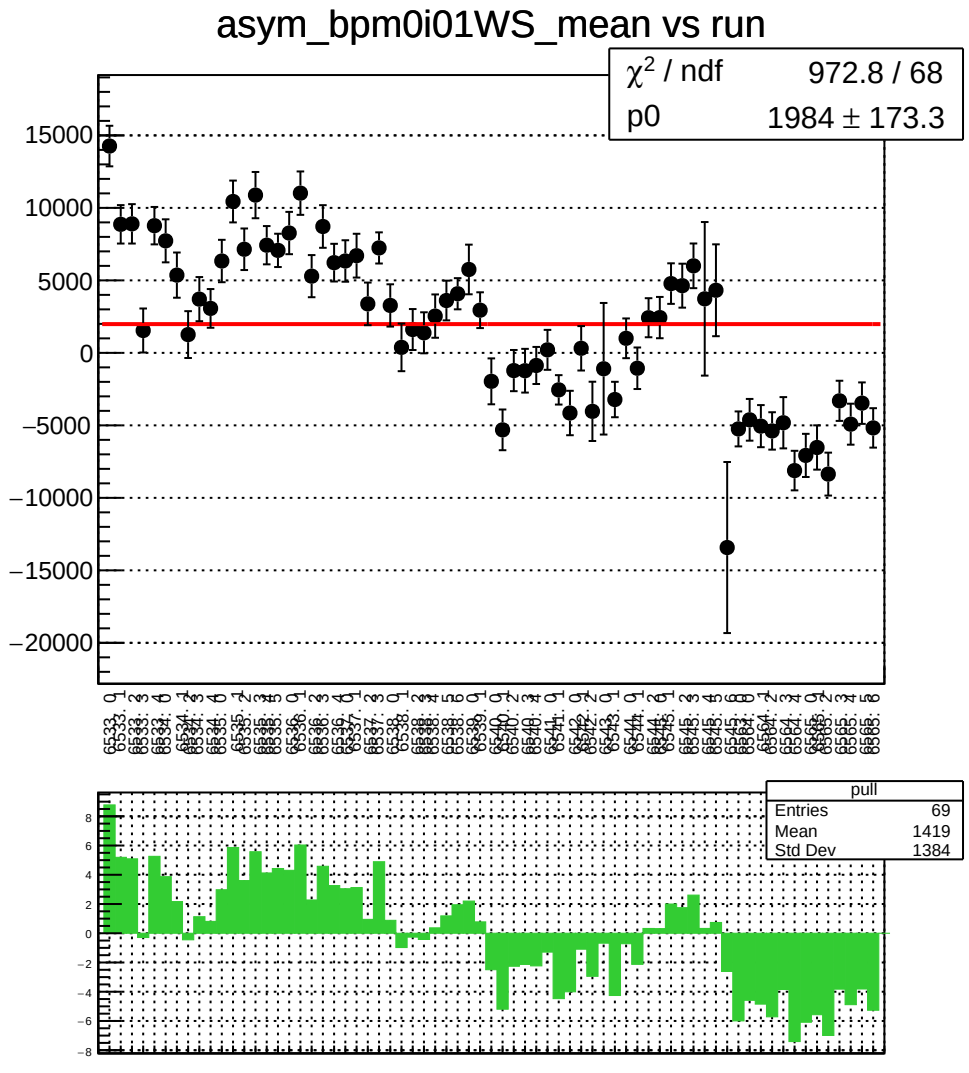

pull1D
Entries 69
Mean 0.394
Std Dev 3.77

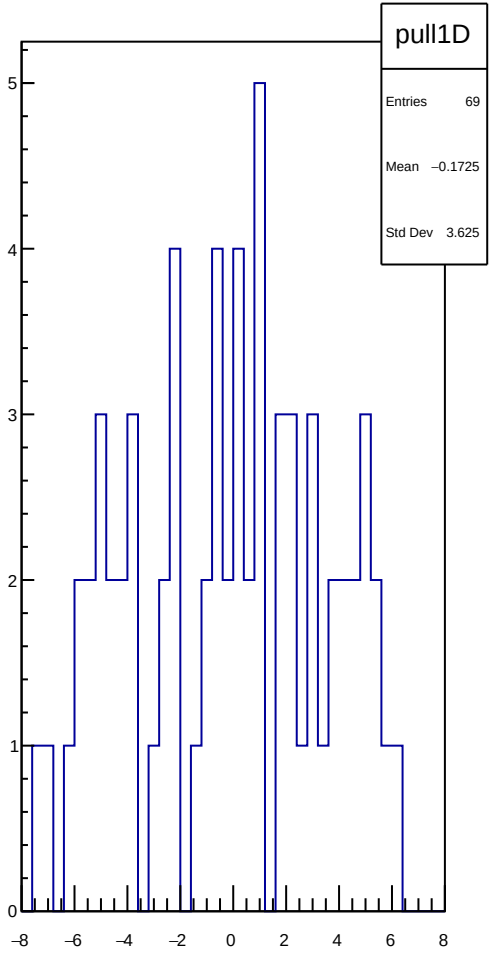

asym_bpm2i01WS_rms vs run
χ² / ndf 6.652e+04 / 68
p0 117.4 ± 0.1031
700
600
500
400
300
200
100

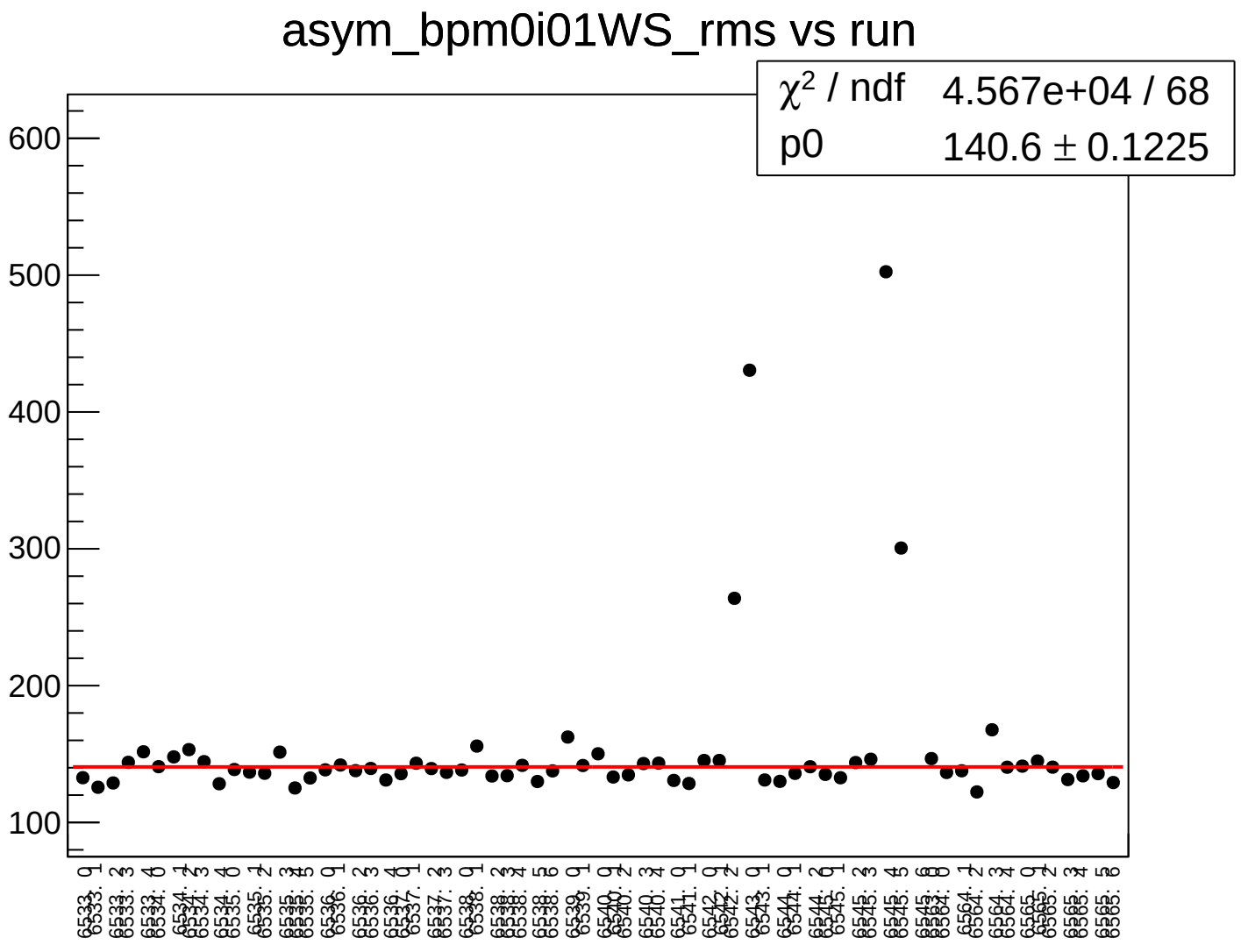

asym_bpm2i02WS_mean vs run
χ² / ndf 1402 / 68
p0 −1856 ± 140.9
pull
Entries 69
Mean −3152
Std Dev 3188

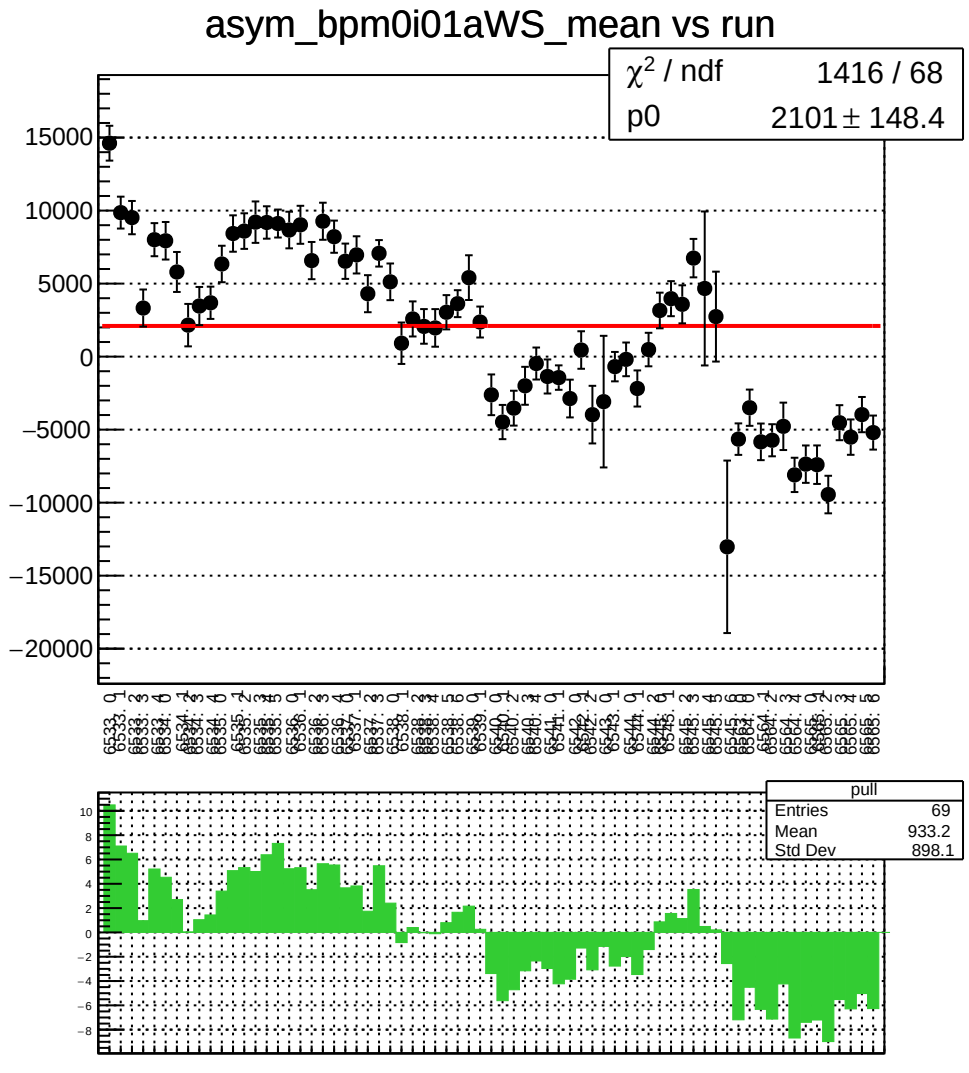

pull1D
Entries 69
Mean 0.3014
Std Dev 4.021

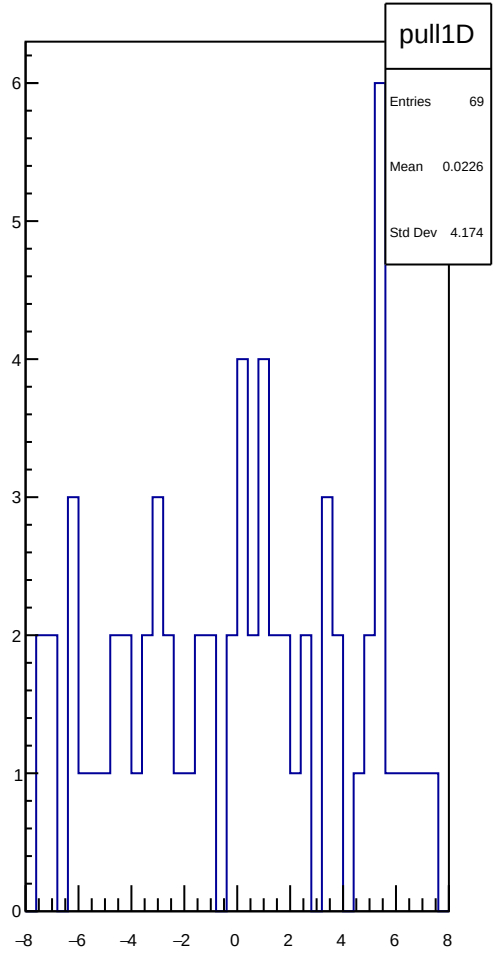

asym_bpm2i02WS_rms vs run
χ² / ndf 6.938e+04 / 68
p0 113.3 ± 0.09962
700
600
500
400
300
200
100

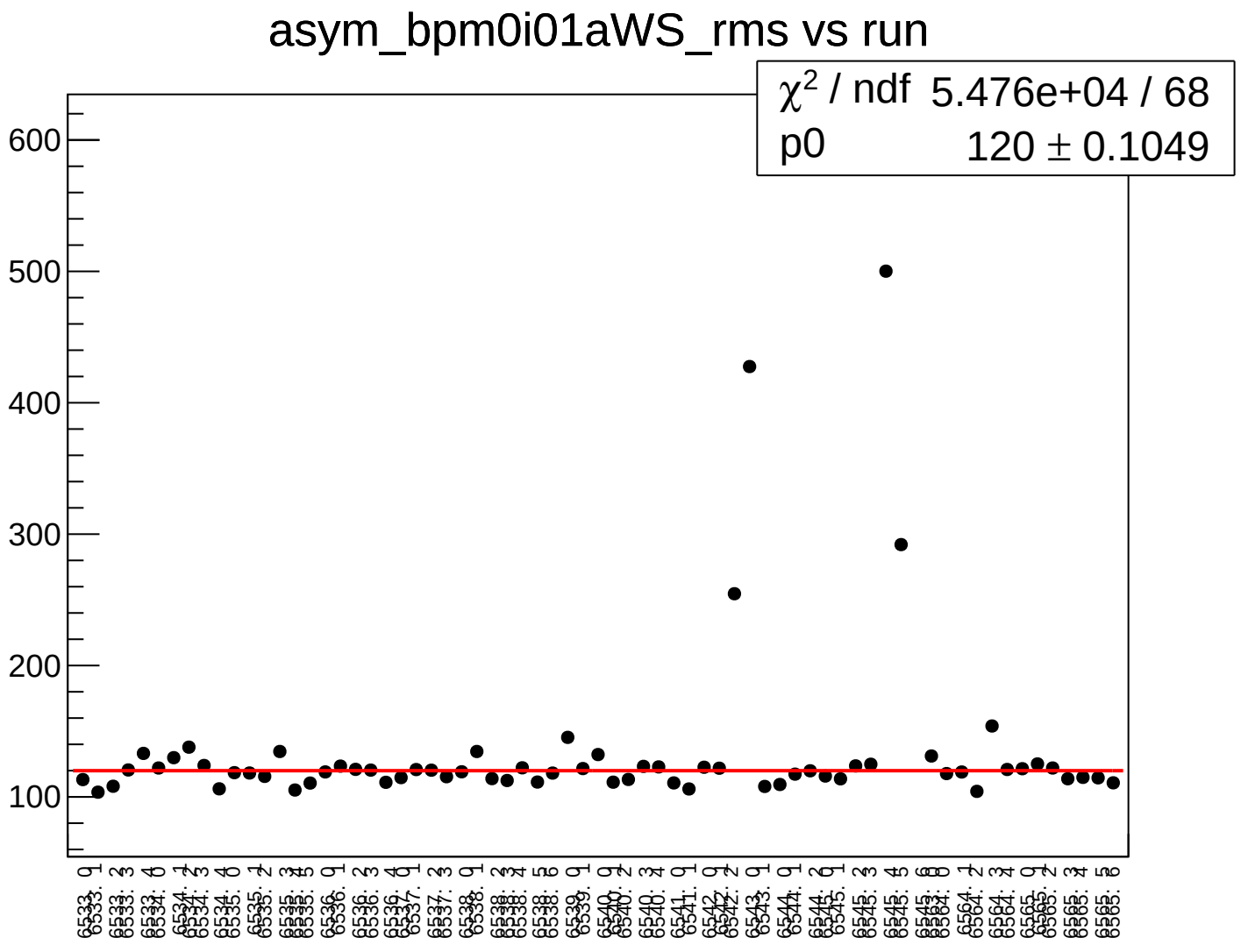

asym_bpm0i01WS_mean vs run
χ² / ndf 972.8 / 68
p0 1984 ± 173.3
pull
Entries 69
Mean 1419
Std Dev 1384

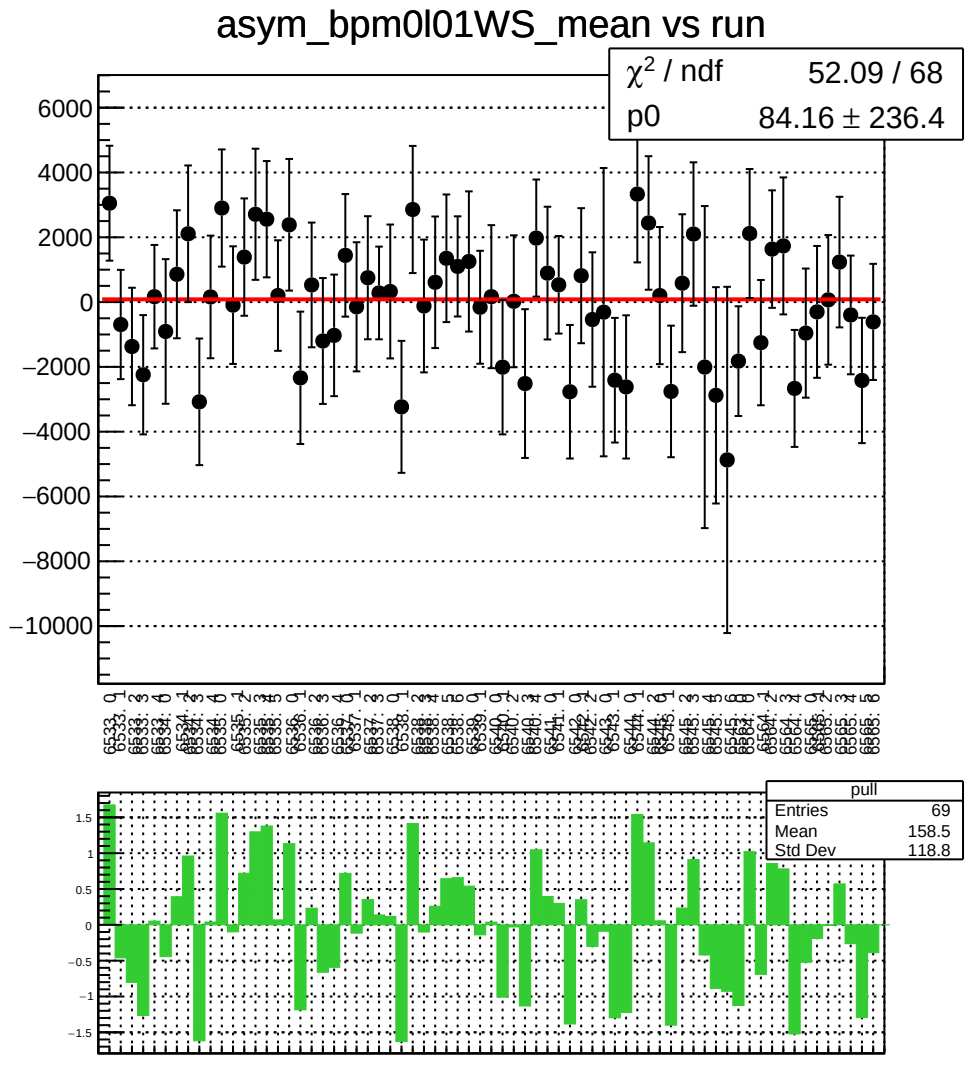

pull1D
Entries 69
Mean −0.1725
Std Dev 3.625

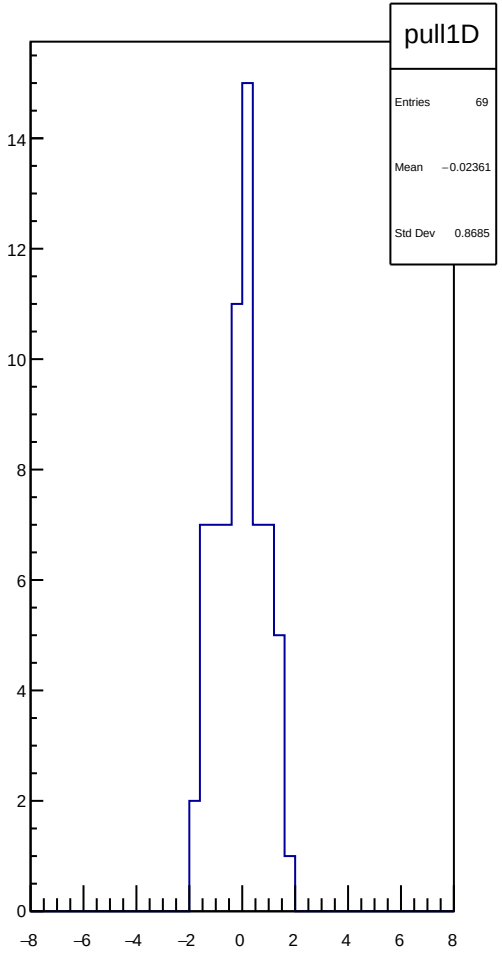

asym_bpm0i01WS_rms vs run
χ² / ndf 4.567e+04 / 68
p0 140.6 ± 0.1225
600
500
400
300
200
100

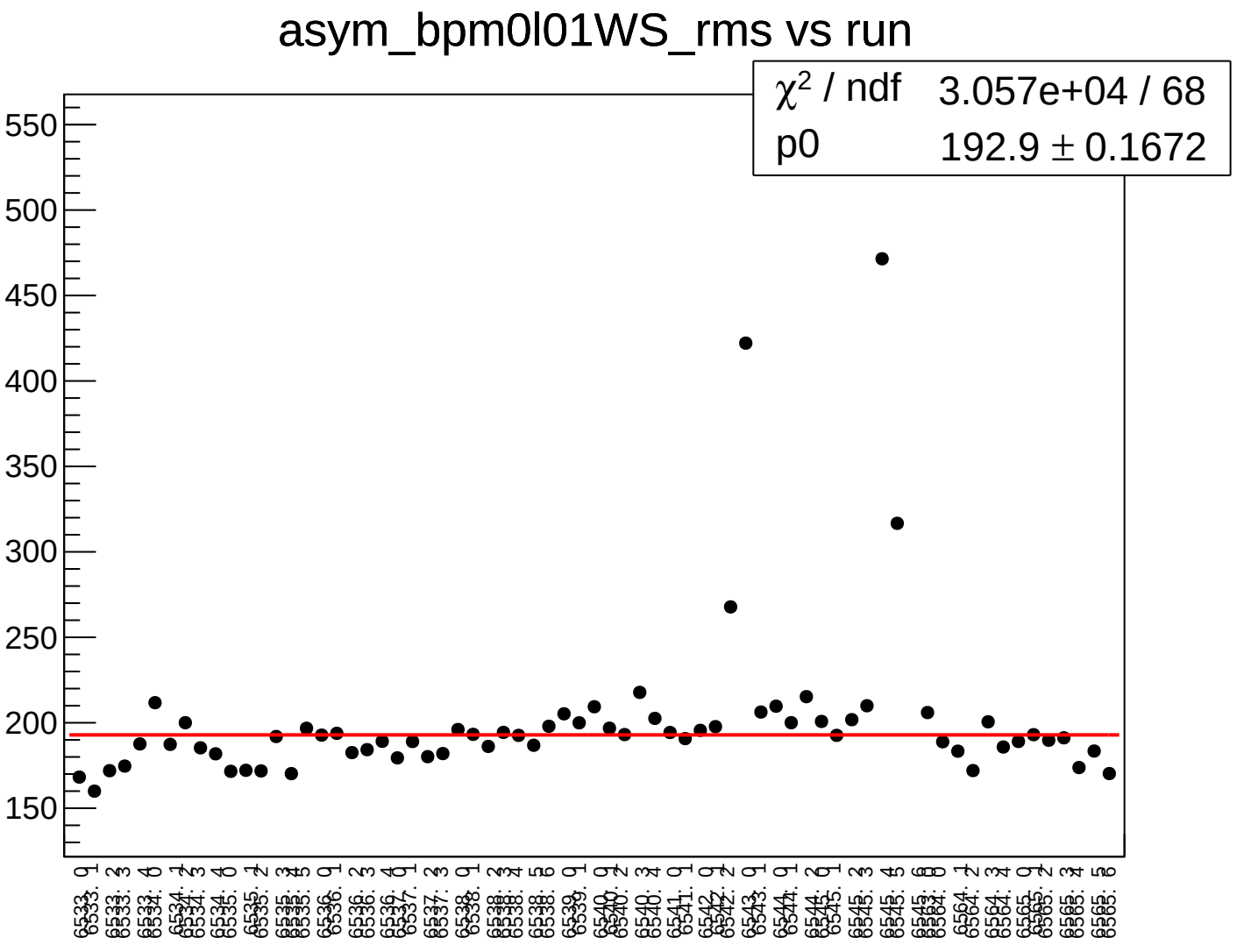

asym_bpm0i01aWS_mean vs run
χ² / ndf 1416 / 68
p0 2101 ± 148.4
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 69
Mean 933.2
Std Dev 898.1
10
8
6
4
2
0
−2
−4
−6
−8

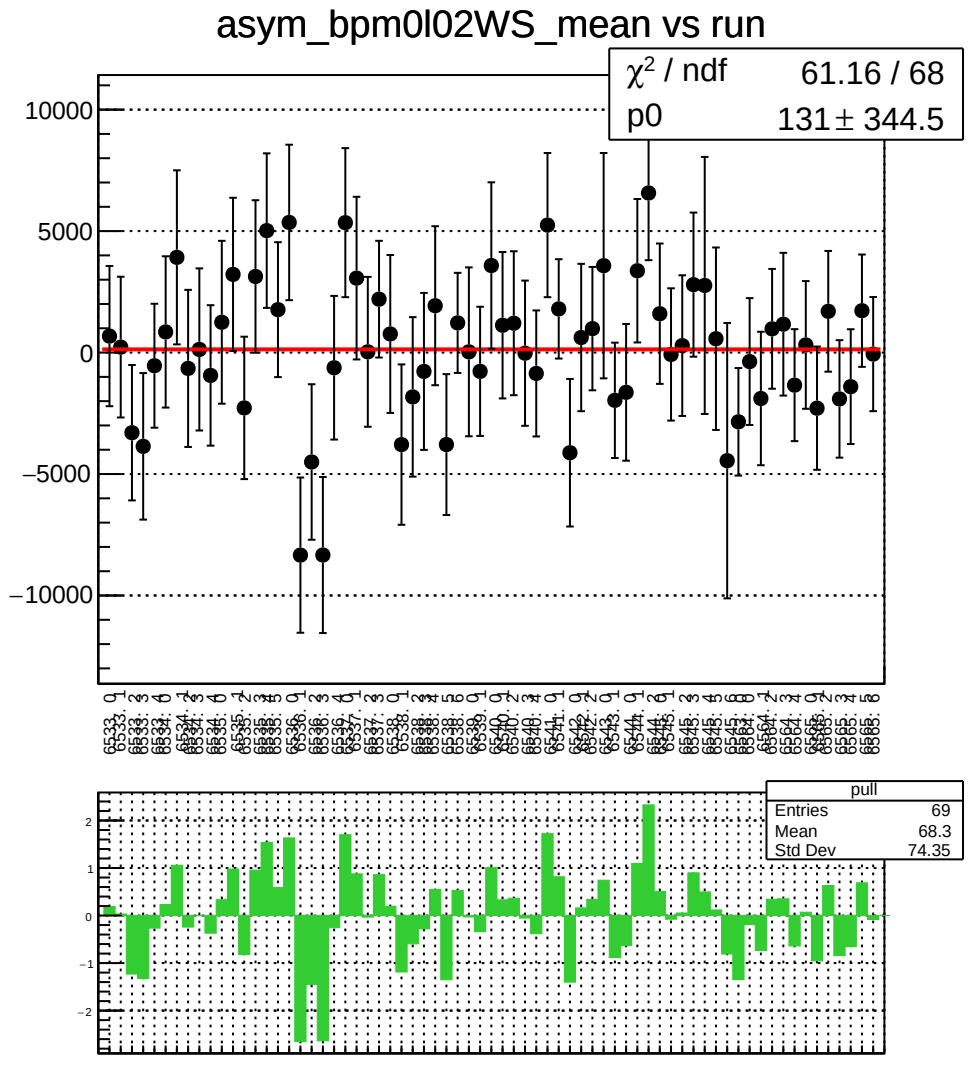

pull1D
Entries 69
Mean 0.0226
Std Dev 4.174
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

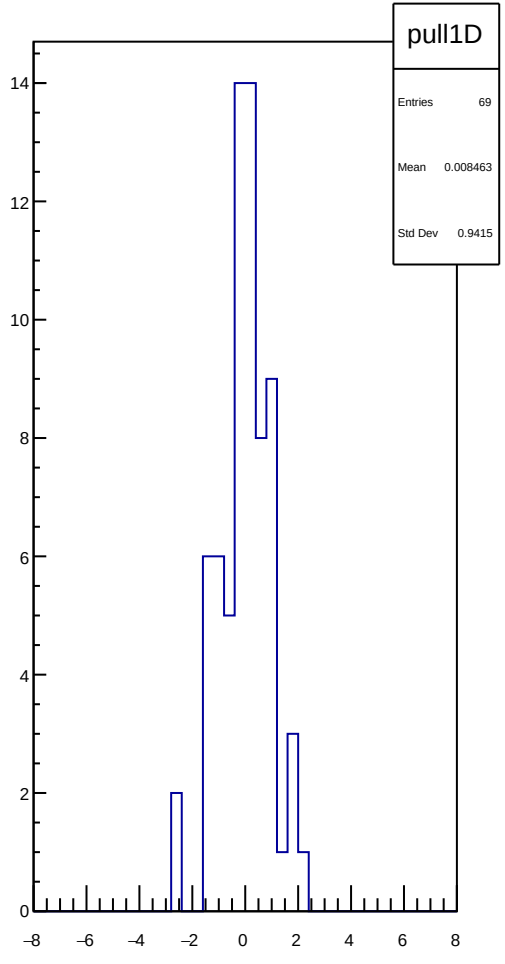

asym_bpm0i01aWS_rms vs run
$\chi^2$ / ndf 5.476e+04 / 68
p0 120 ± 0.1049
600
500
400
300
200
100

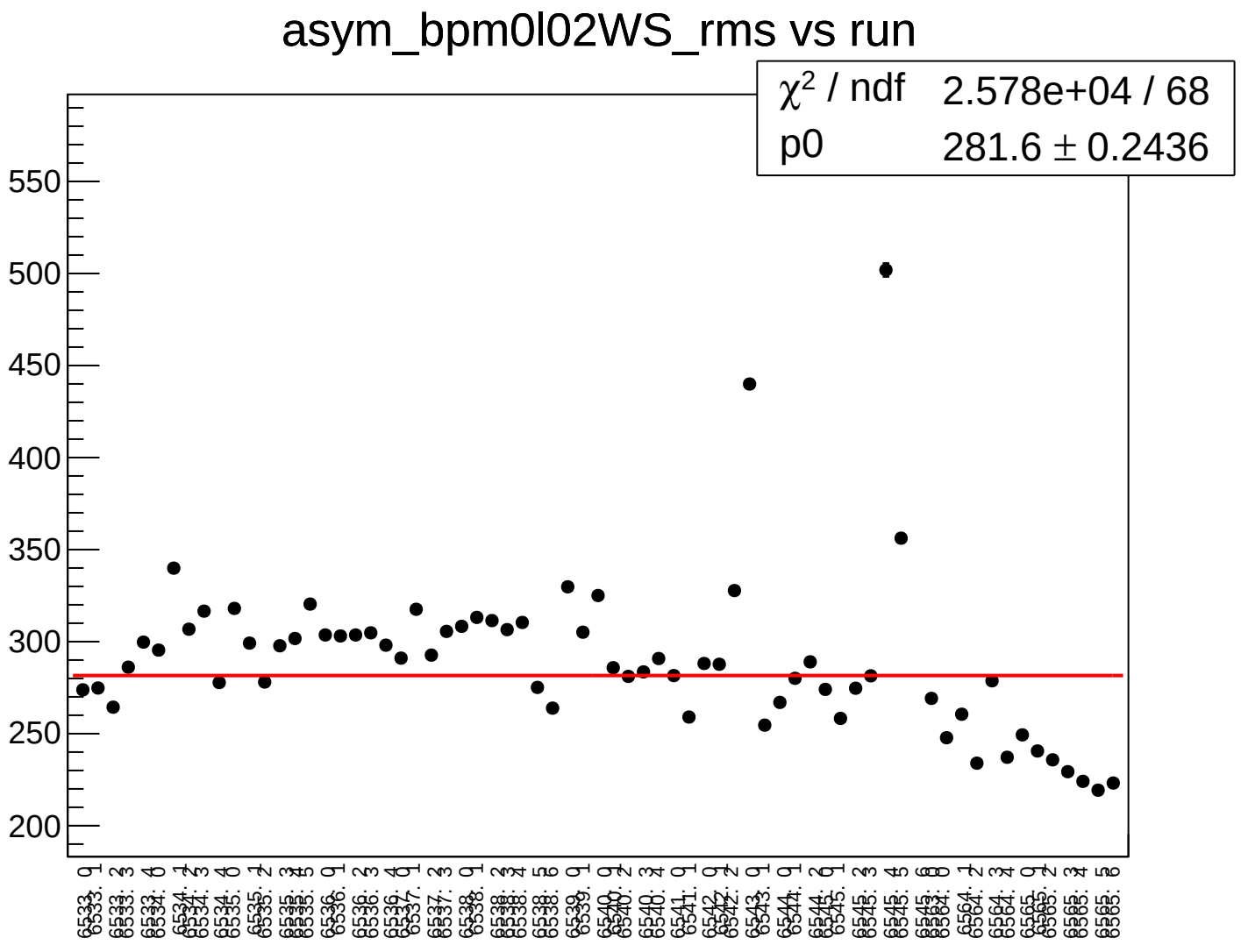

asym_bpm0l01WS_mean vs run
$\chi^2$ / ndf 52.09 / 68
p0 84.16 ± 236.4
pull
Entries 69
Mean 158.5
Std Dev 118.8

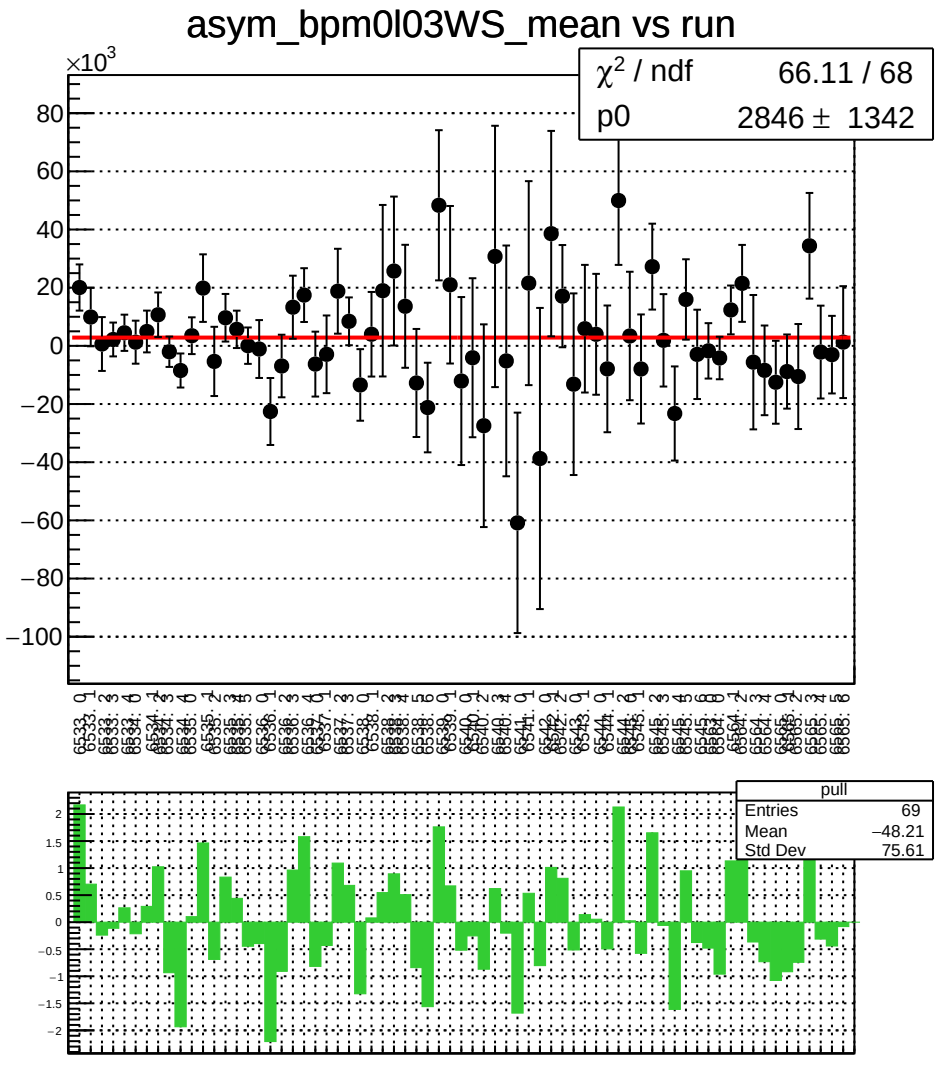

pull1D
Entries 69
Mean −0.02361
Std Dev 0.8685

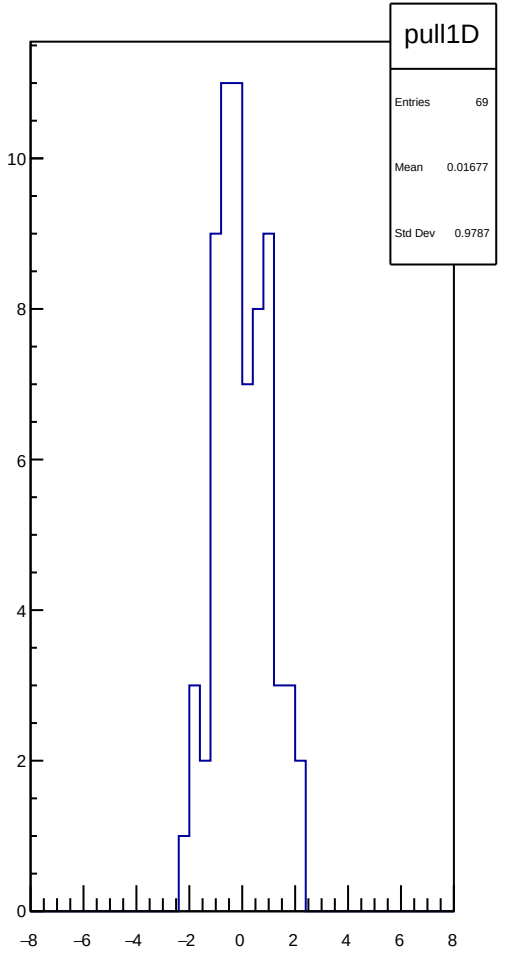

asym_bpm0l01WS_rms vs run
χ² / ndf 3.057e+04 / 68
p0 192.9 ± 0.1672
550
500
450
400
350
300
250
200
150

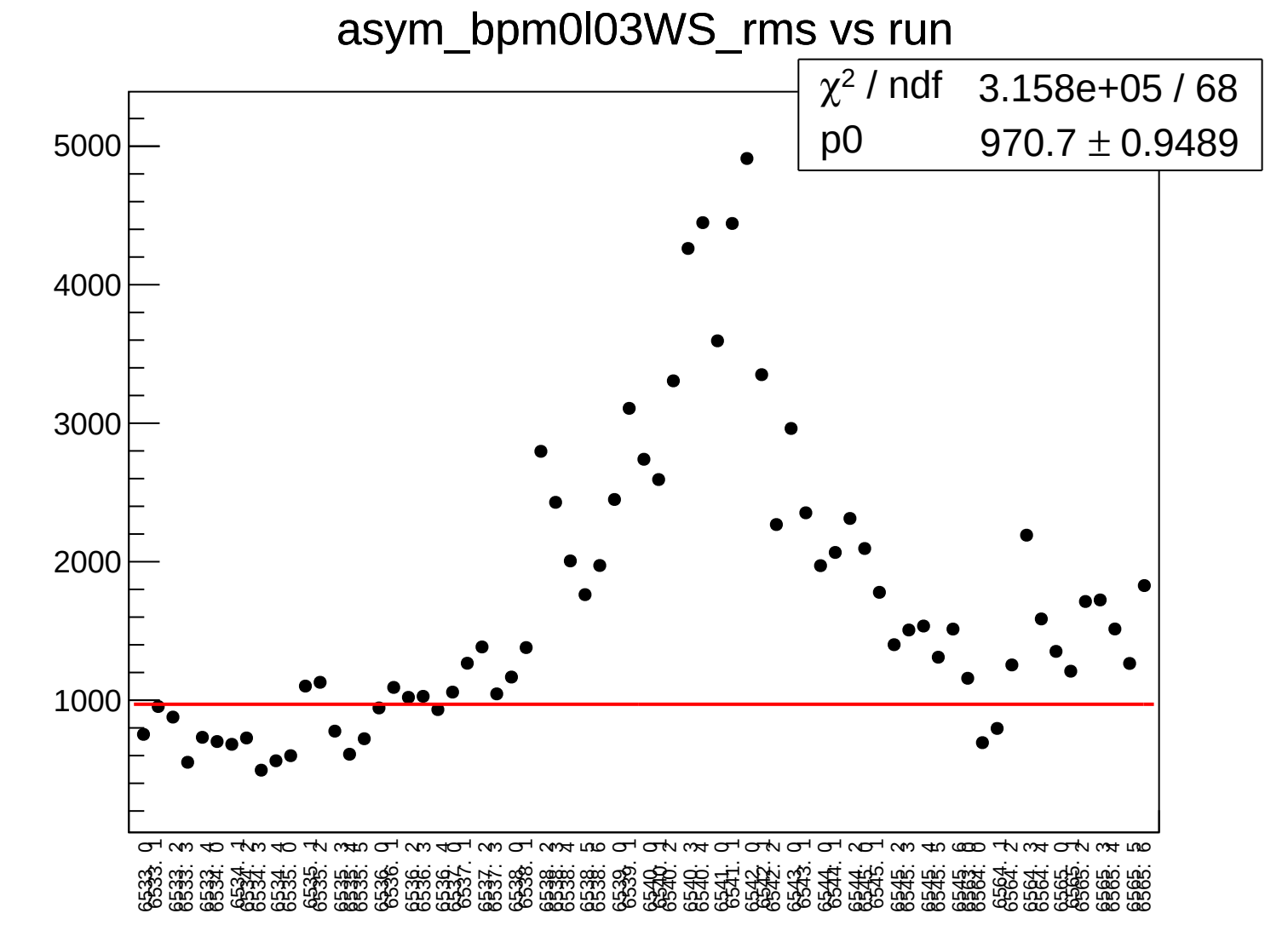

asym_bpm0l02WS_mean vs run
χ² / ndf 61.16 / 68
p0 131 ± 344.5
10000
5000
0
−5000
−10000
pull
Entries 69
Mean 68.3
Std Dev 74.35
2
1
0
−1
−2

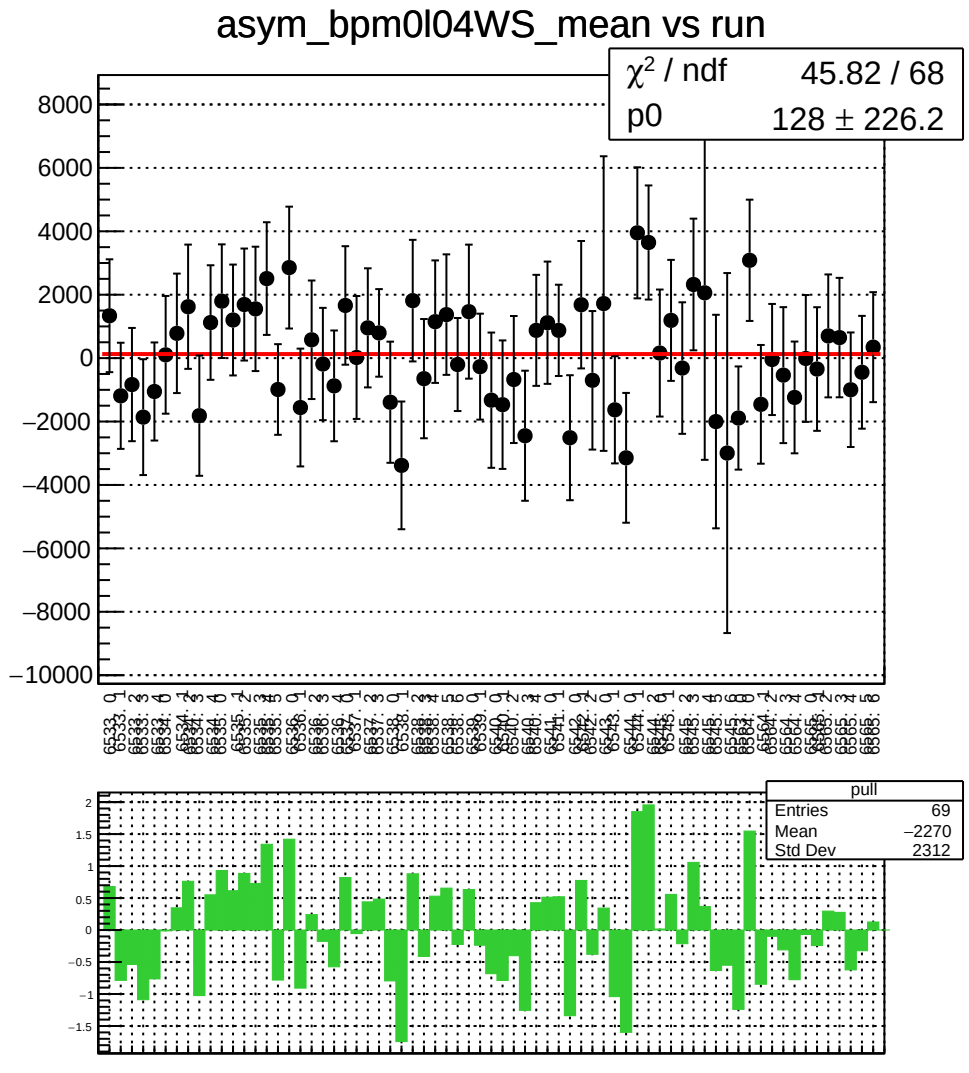

pull1D
Entries 69
Mean 0.008463
Std Dev 0.9415
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

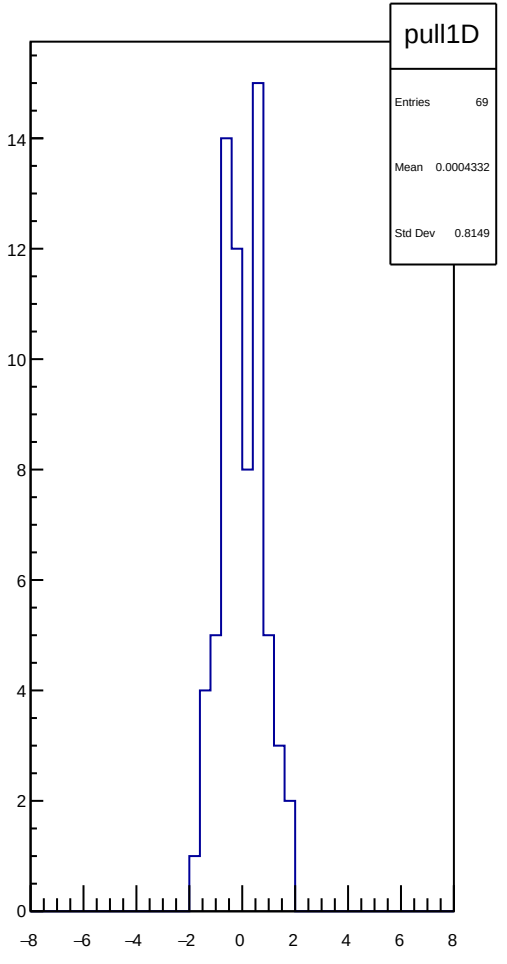

asym_bpm0l02WS_rms vs run
χ² / ndf 2.578e+04 / 68
p0 281.6 ± 0.2436
550
500
450
400
350
300
250
200

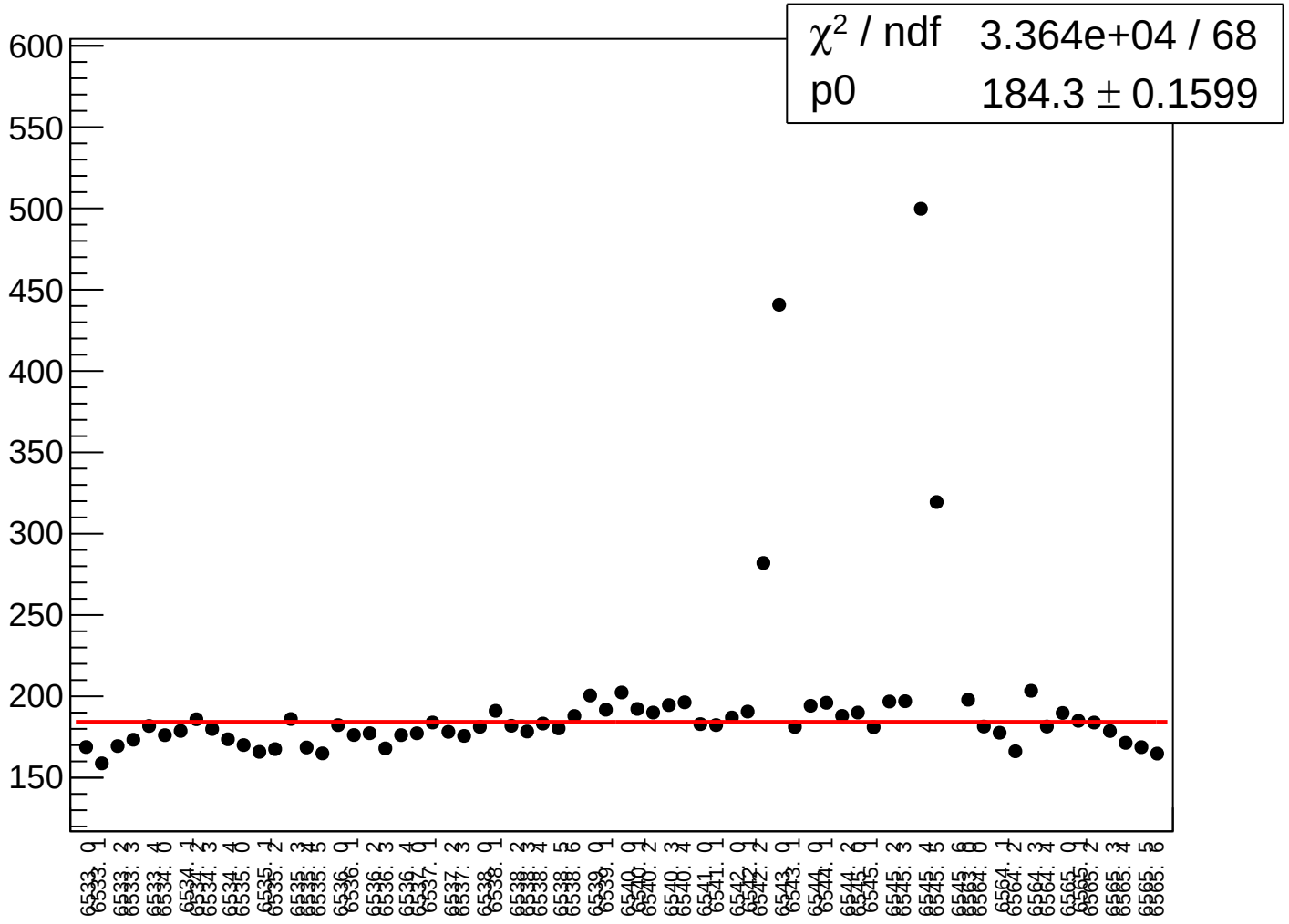

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 66.11 / 68
p0 2846 ± 1342
pull
Entries 69
Mean −48.21
Std Dev 75.61

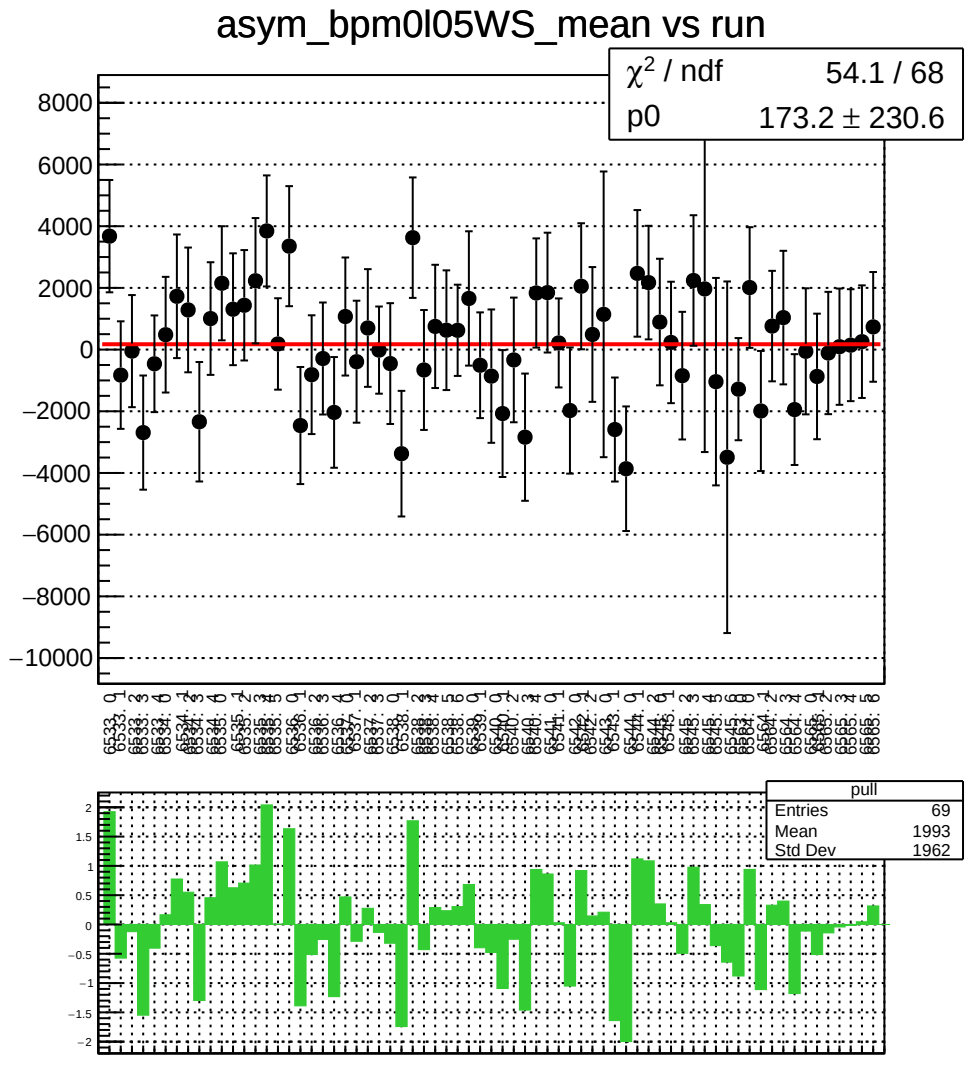

pull1D
Entries 69
Mean 0.01677
Std Dev 0.9787

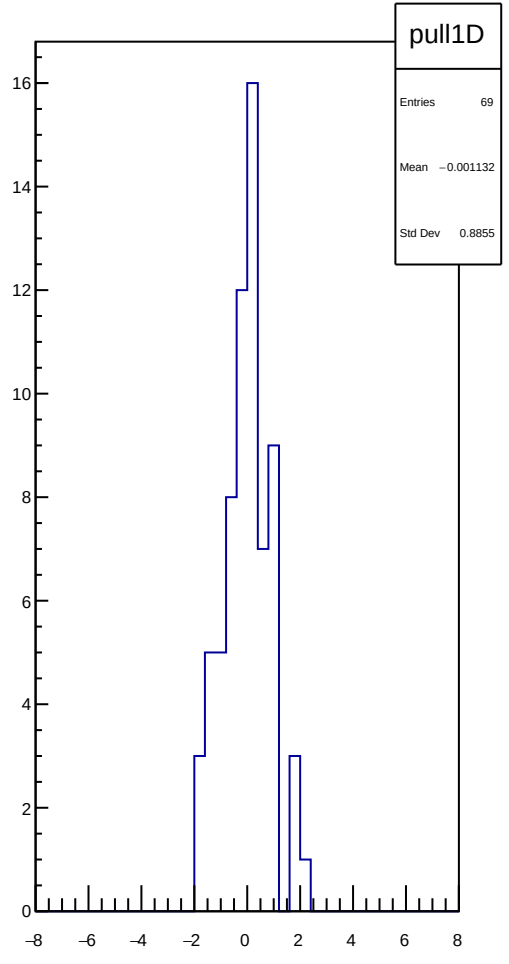

asym_bpm0l03WS_rms vs run
χ² / ndf 3.158e+05 / 68
p0 970.7 ± 0.9489
5000
4000
3000
2000
1000

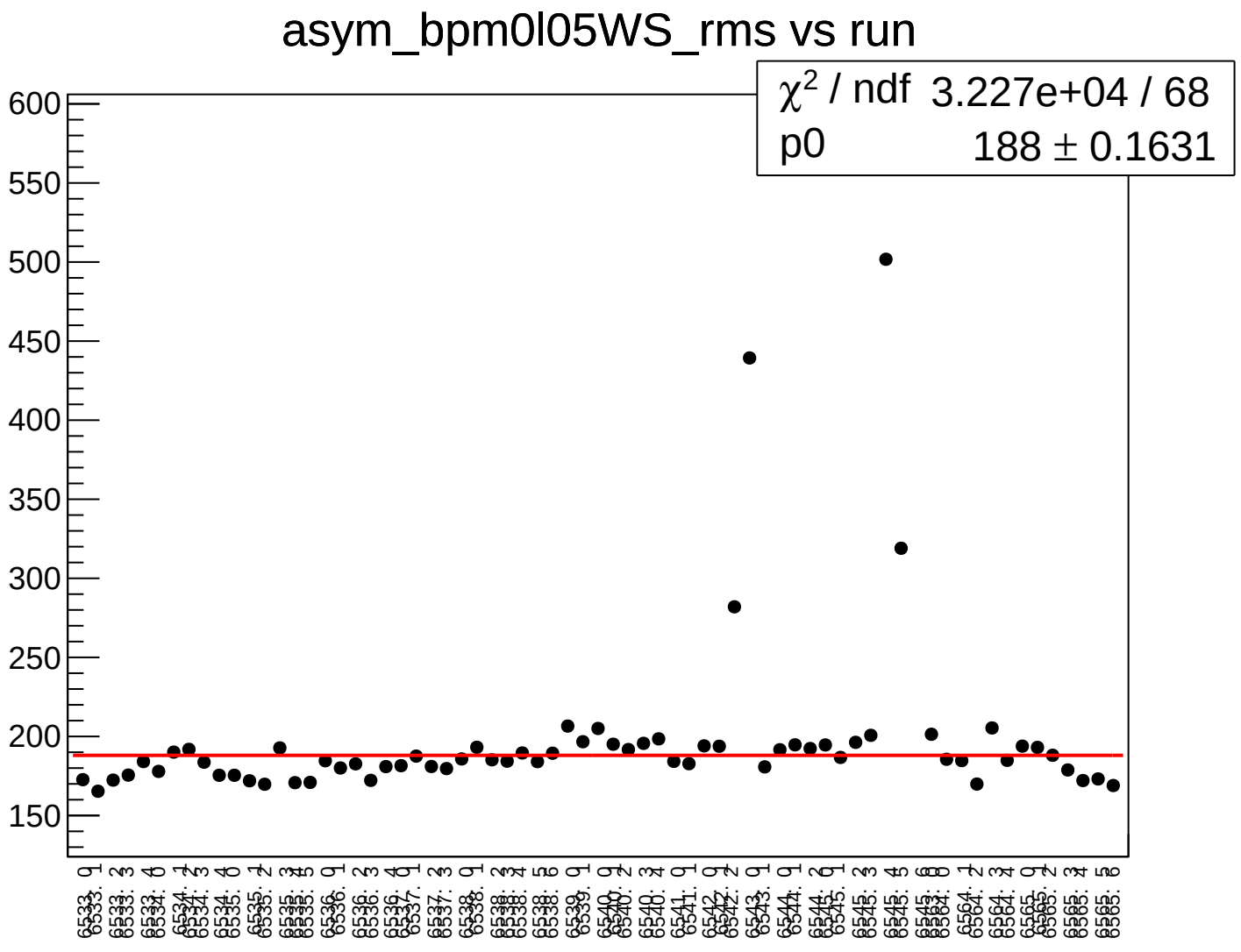

asym_bpm0l04WS_mean vs run
χ² / ndf 45.82 / 68
p0 128 ± 226.2
pull
Entries 69
Mean −2270
Std Dev 2312

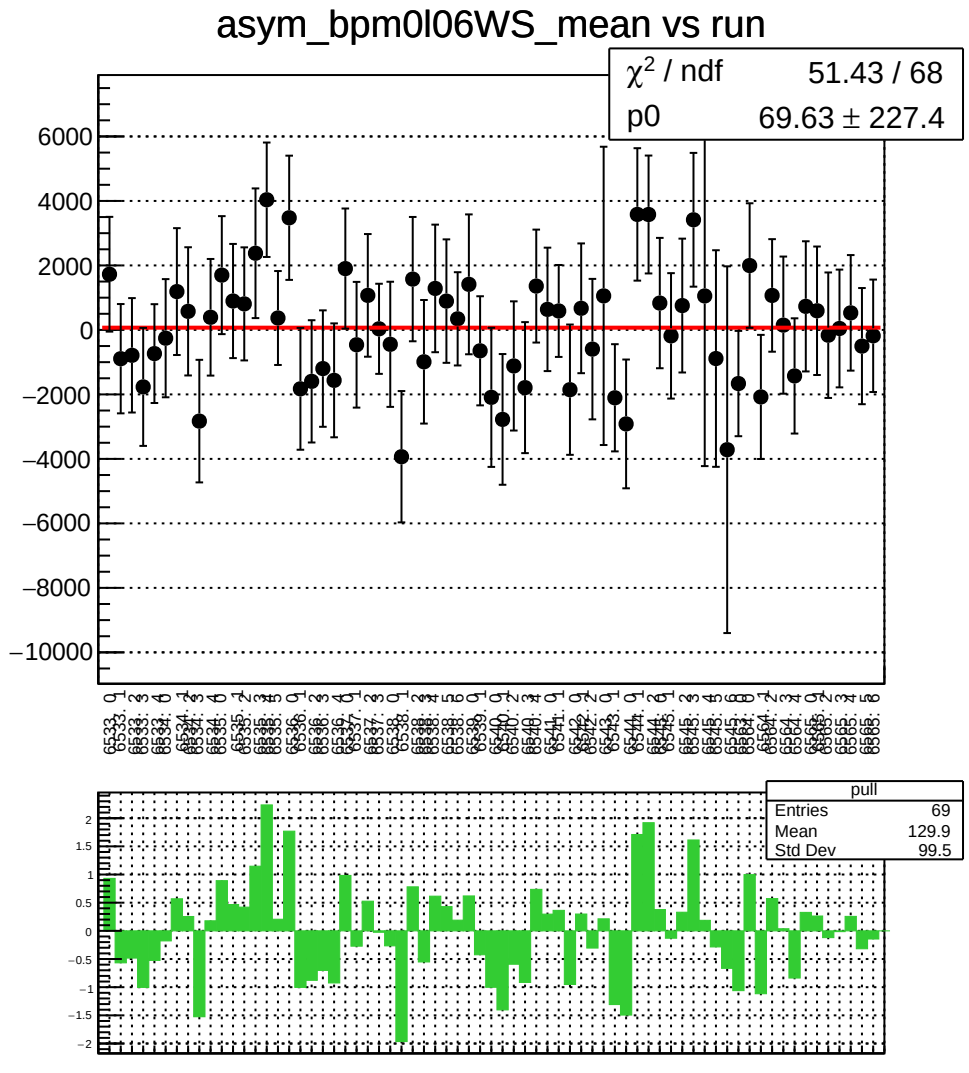

pull1D
Entries 69
Mean 0.0004332
Std Dev 0.8149

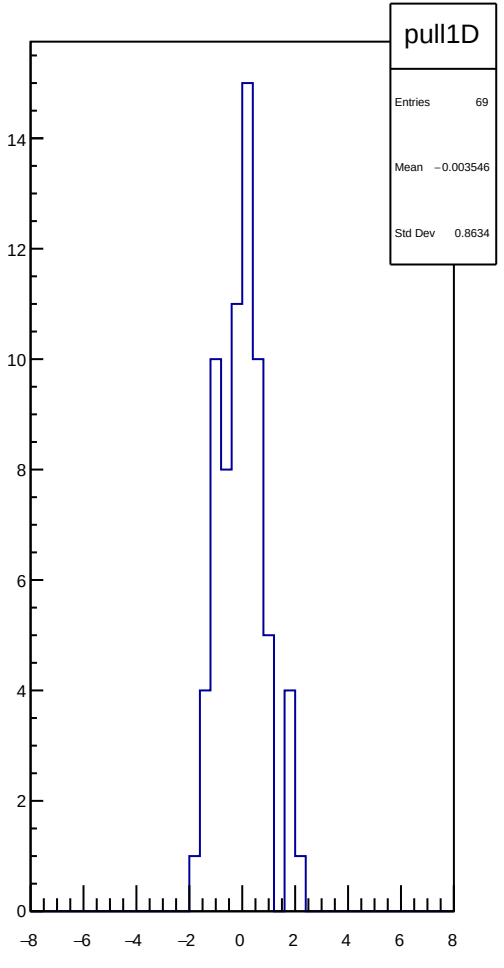

asym_bpm0l04WS_rms vs run
$\chi^2$ / ndf 3.364e+04 / 68
p0 184.3 ± 0.1599
600
550
500
450
400
350
300
250
200
150

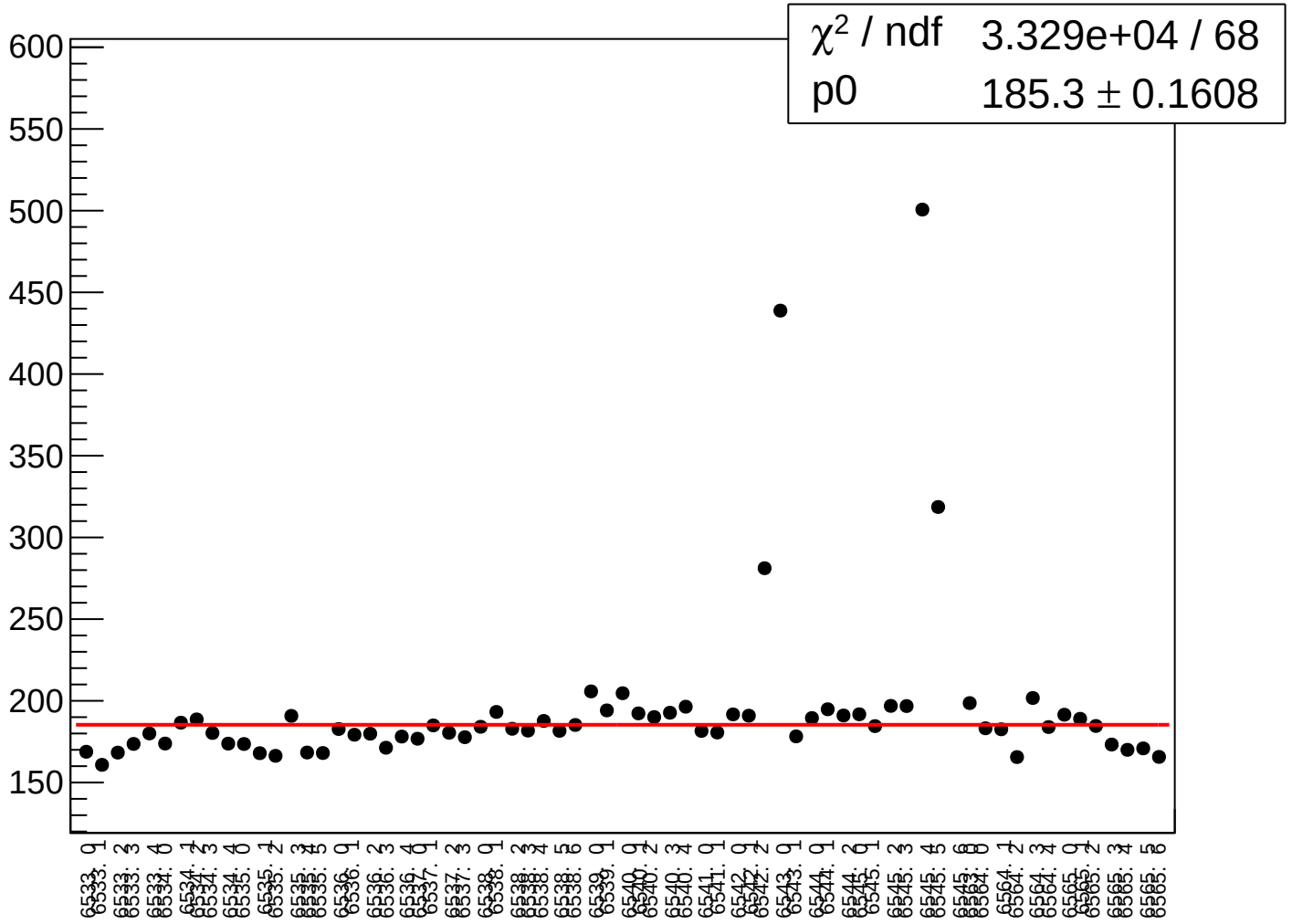

asym_bpm0l05WS_mean vs run
χ² / ndf 54.1 / 68
p0 173.2 ± 230.6
pull
Entries 69
Mean 1993
Std Dev 1962

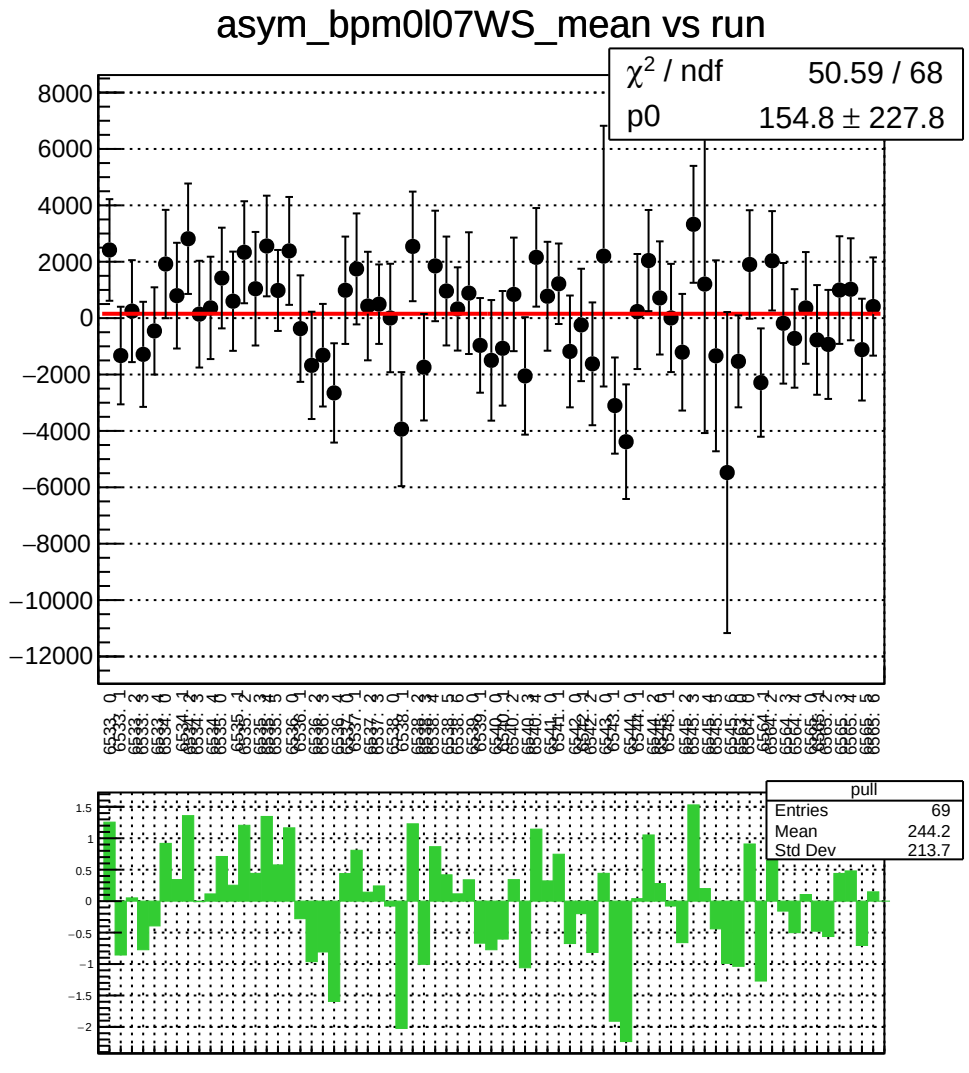

pull1D
Entries 69
Mean −0.001132
Std Dev 0.8855

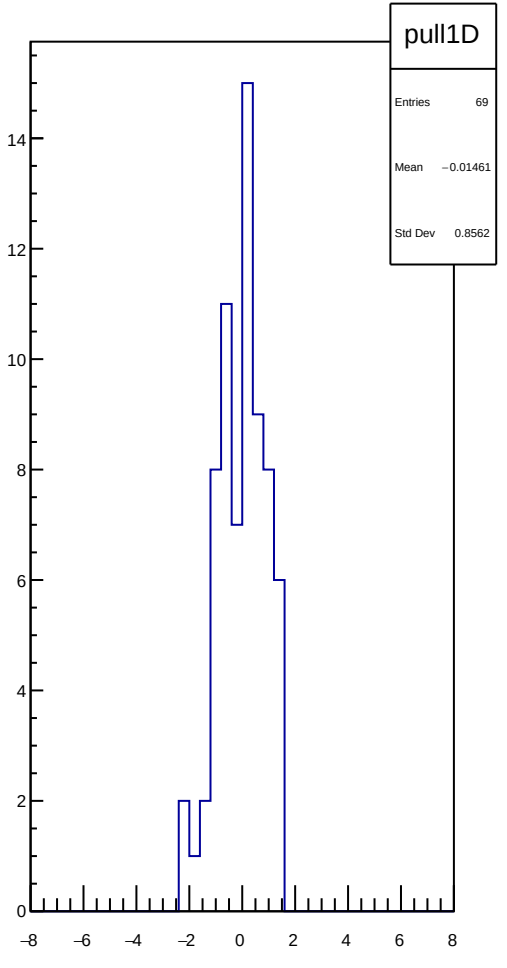

asym_bpm0l05WS_rms vs run
$\chi^2$ / ndf 3.227e+04 / 68
p0 188 ± 0.1631
600
550
500
450
400
350
300
250
200
150

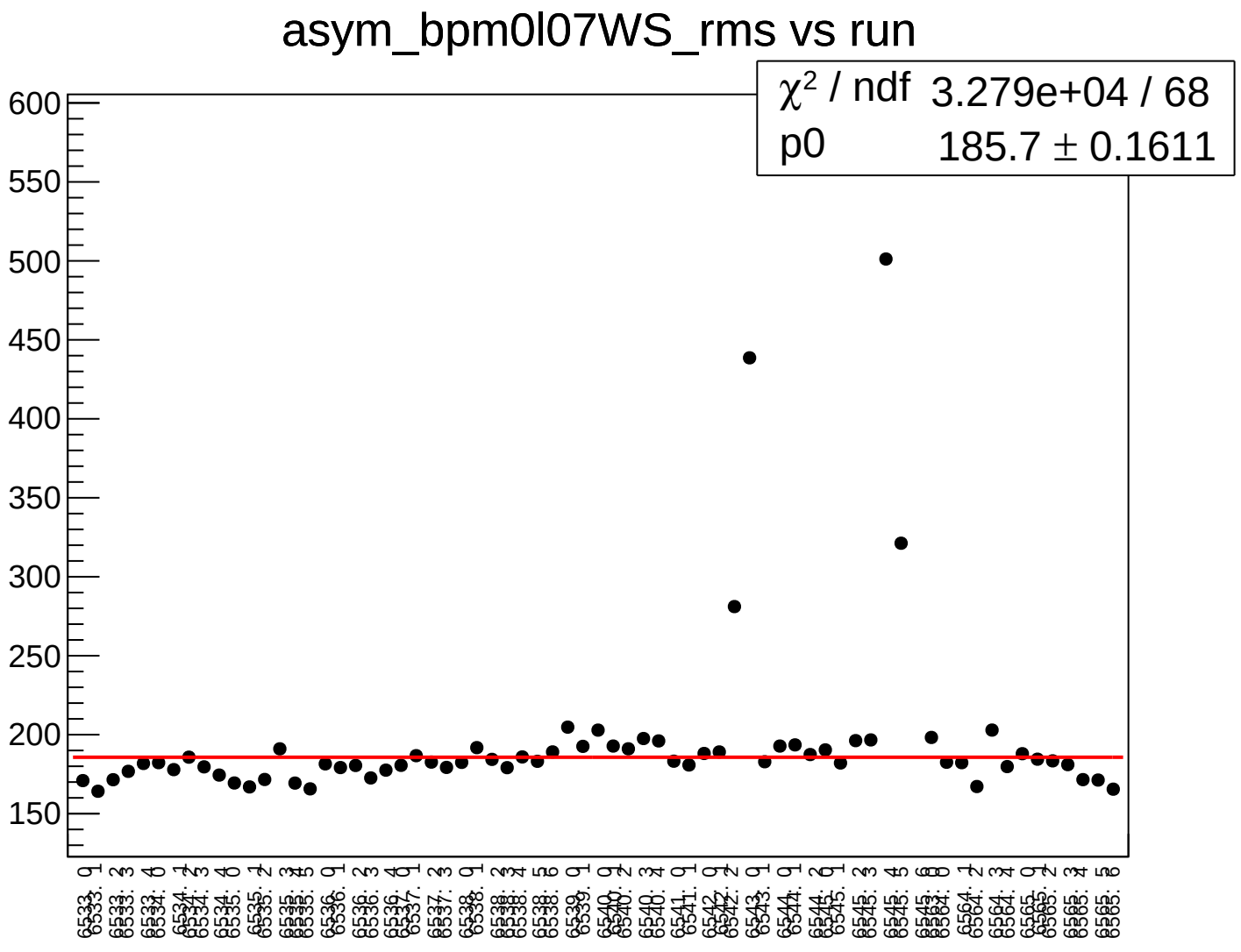

asym_bpm0l06WS_mean vs run
χ² / ndf 51.43 / 68
p0 69.63 ± 227.4
pull
Entries 69
Mean 129.9
Std Dev 99.5

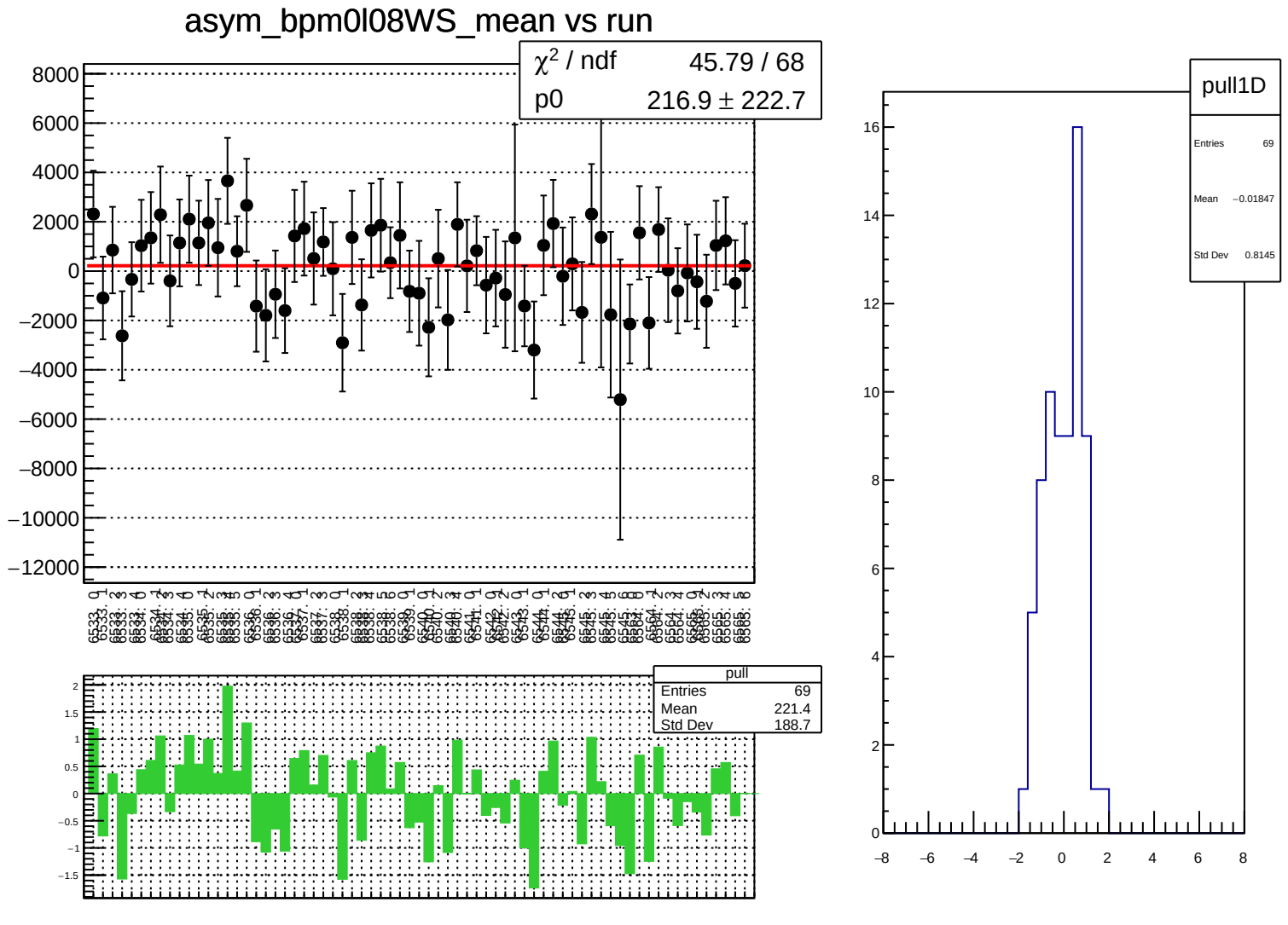

pull1D
Entries 69
Mean −0.003546
Std Dev 0.8634

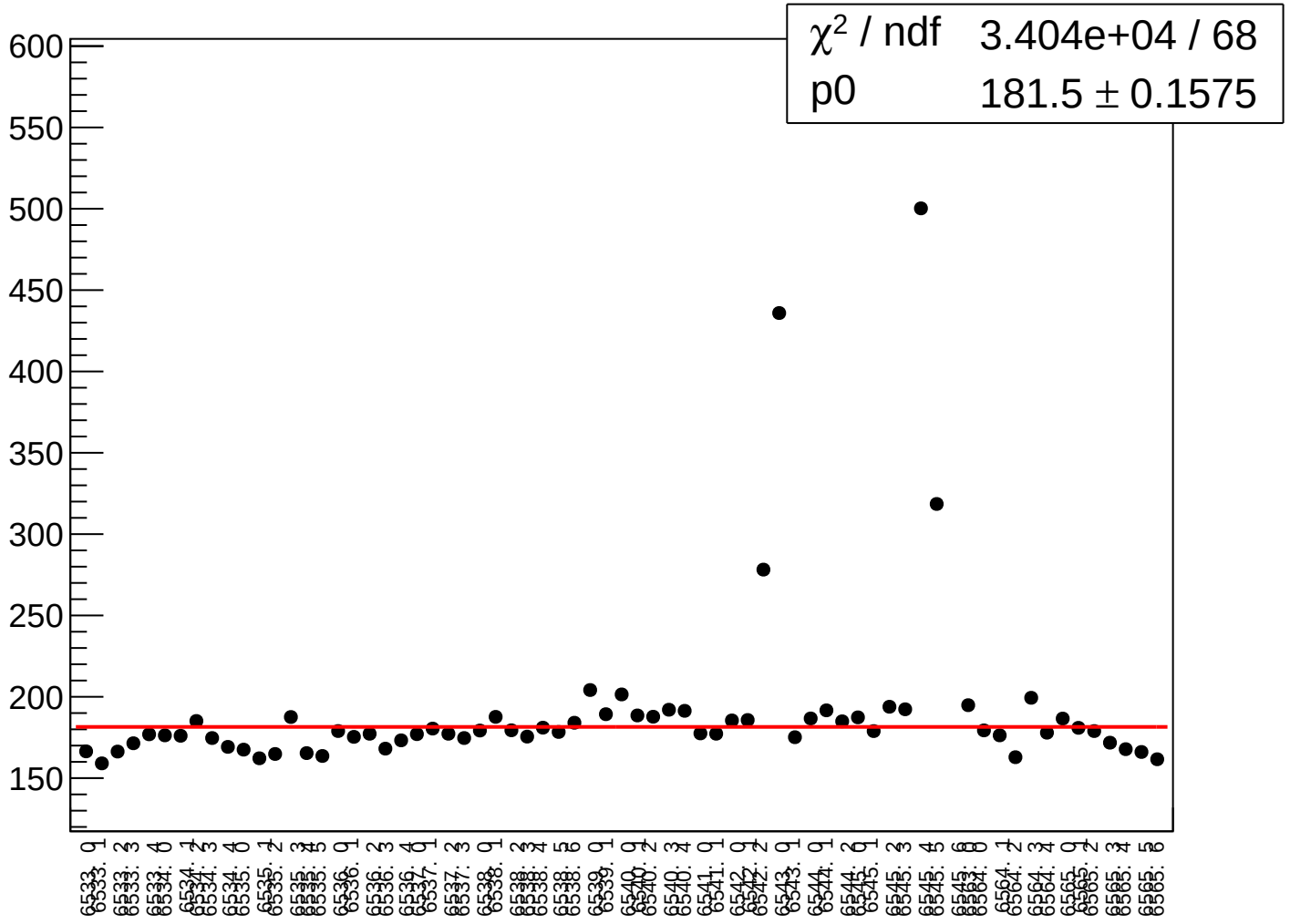

asym_bpm0l06WS_rms vs run
$\chi^2$ / ndf 3.329e+04 / 68
p0 185.3 ± 0.1608
600
550
500
450
400
350
300
250
200
150

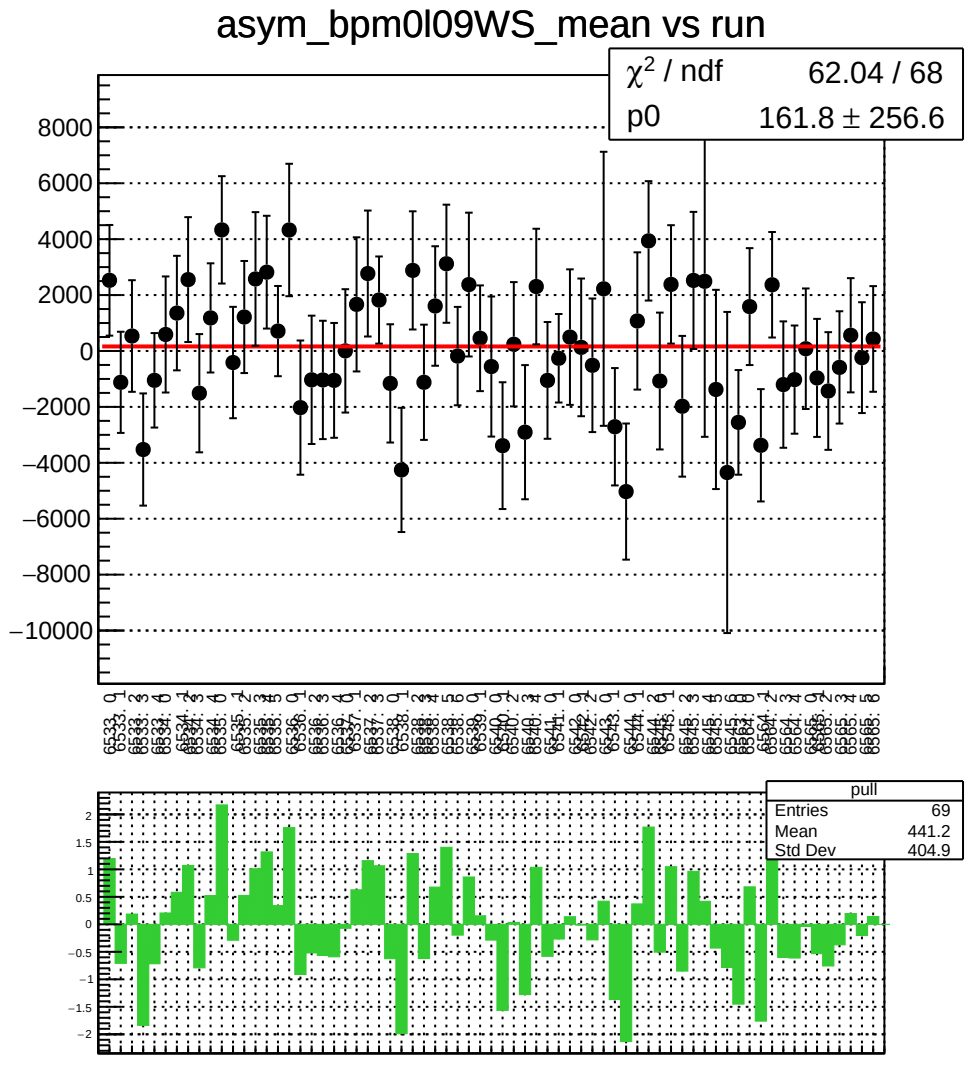

asym_bpm0l07WS_mean vs run
χ² / ndf 50.59 / 68
p0 154.8 ± 227.8
pull
Entries 69
Mean 244.2
Std Dev 213.7

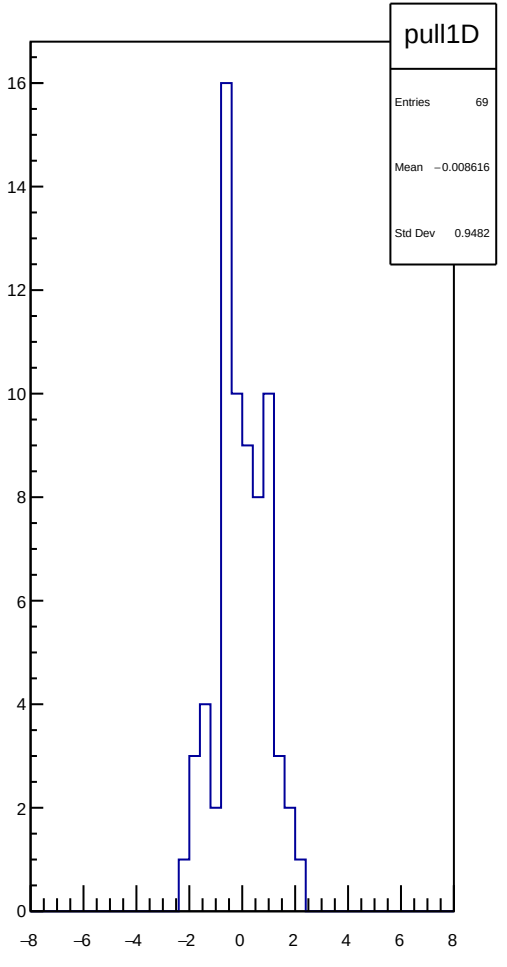

pull1D
Entries 69
Mean −0.01461
Std Dev 0.8562

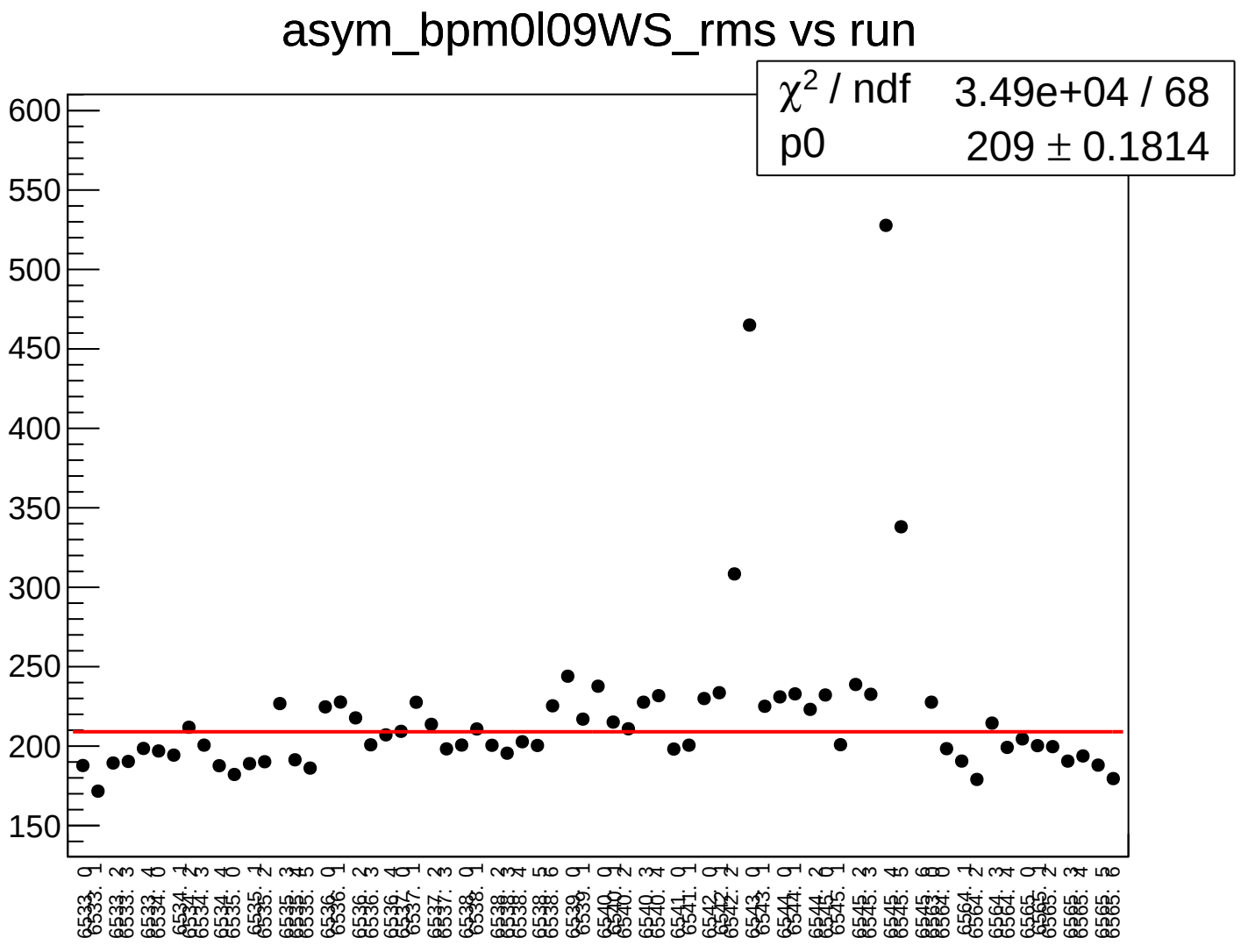

asym_bpm0l07WS_rms vs run
χ² / ndf 3.279e+04 / 68
p0 185.7 ± 0.1611
600
550
500
450
400
350
300
250
200
150

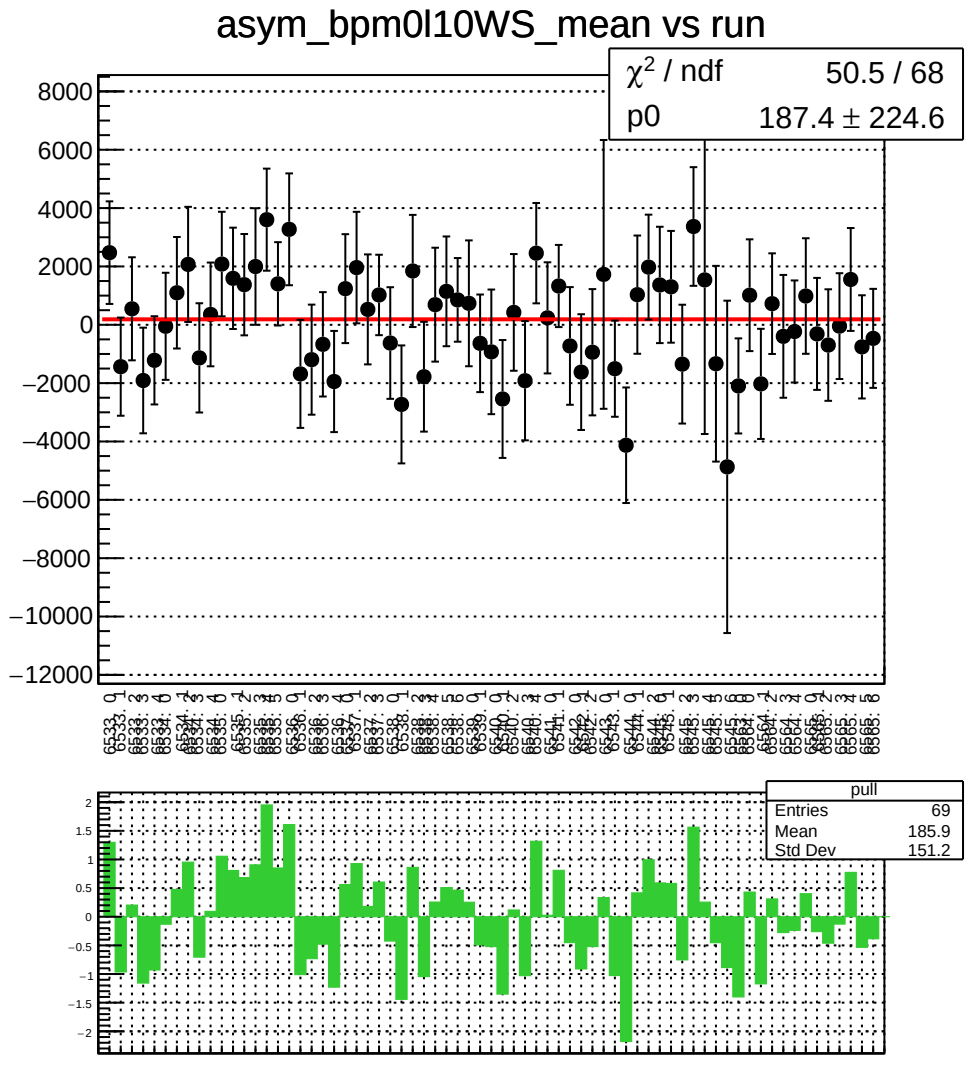

asym_bpm0l08WS_mean vs run
χ² / ndf 45.79 / 68
p0 216.9 ± 222.7
pull
Entries 69
Mean 221.4
Std Dev 188.7
pull1D
Entries 69
Mean −0.01847
Std Dev 0.8145

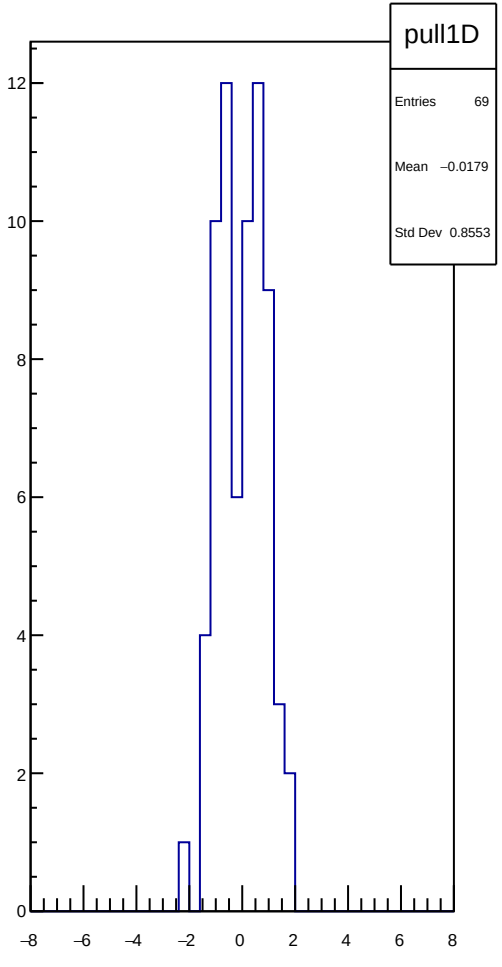

asym_bpm0l08WS_rms vs run
χ² / ndf 3.404e+04 / 68
p0 181.5 ± 0.1575
600
550
500
450
400
350
300
250
200
150

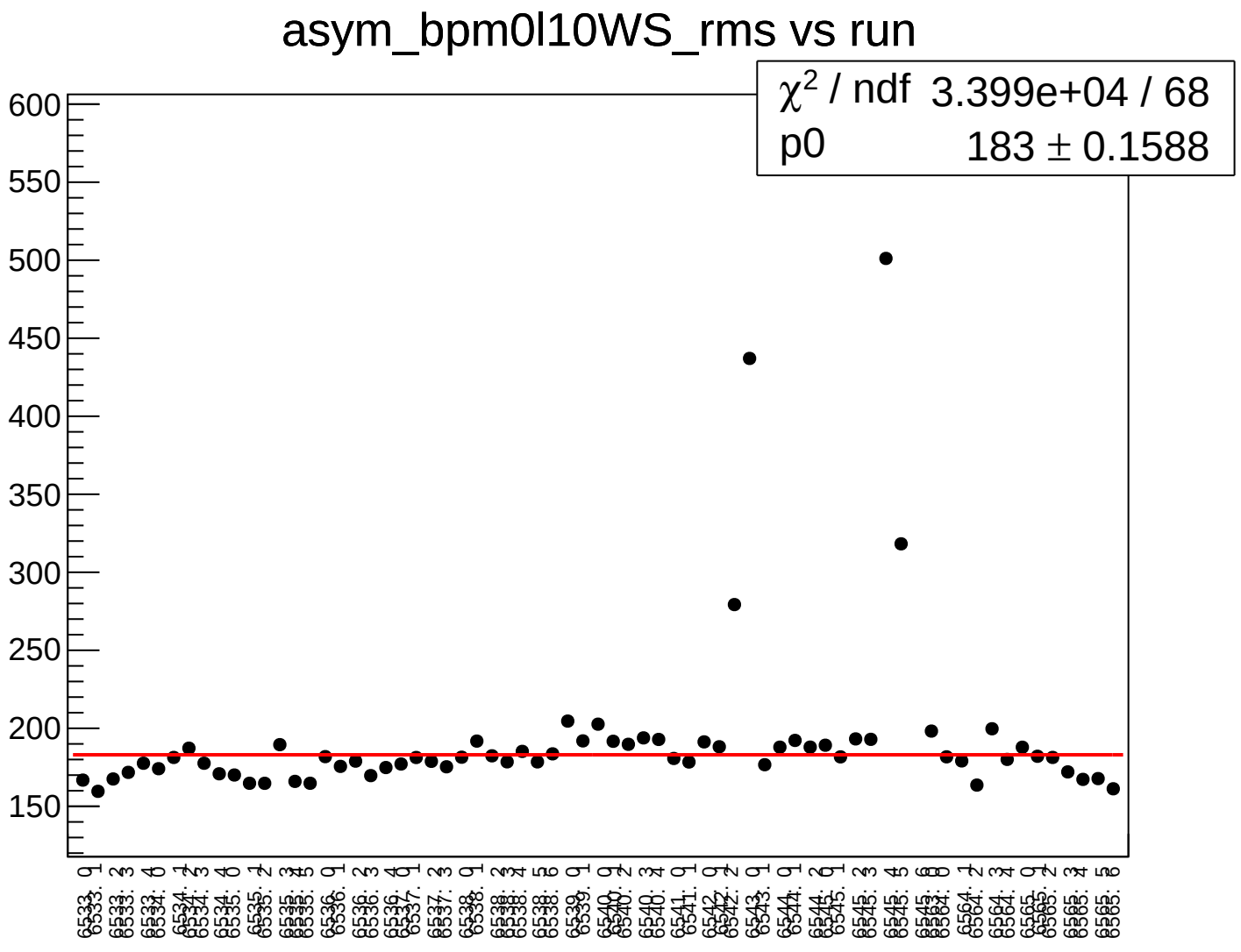

asym_bpm0l09WS_mean vs run
$\chi^2$ / ndf 62.04 / 68
p0 161.8 ± 256.6
pull
Entries 69
Mean 441.2
Std Dev 404.9

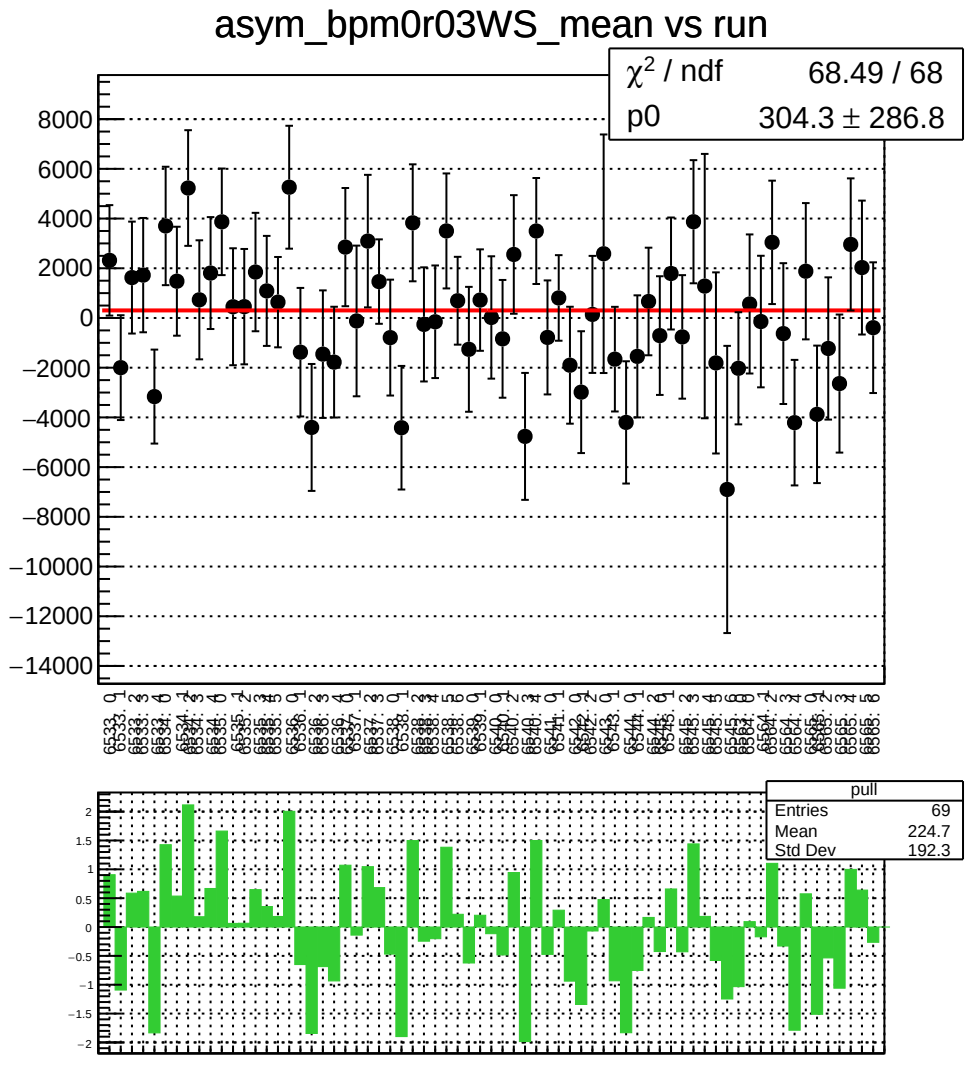

pull1D
Entries 69
Mean −0.008616
Std Dev 0.9482

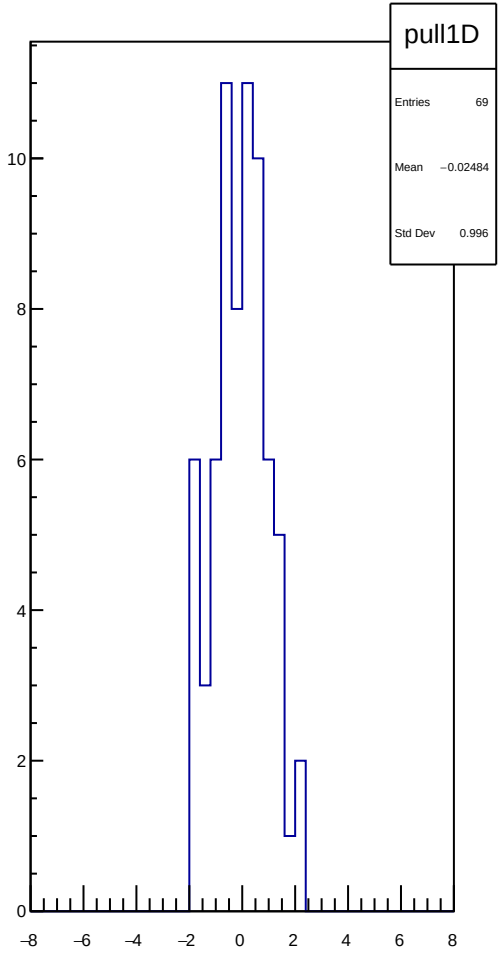

asym_bpm0l09WS_rms vs run
χ² / ndf 3.49e+04 / 68
p0 209 ± 0.1814
600
550
500
450
400
350
300
250
200
150

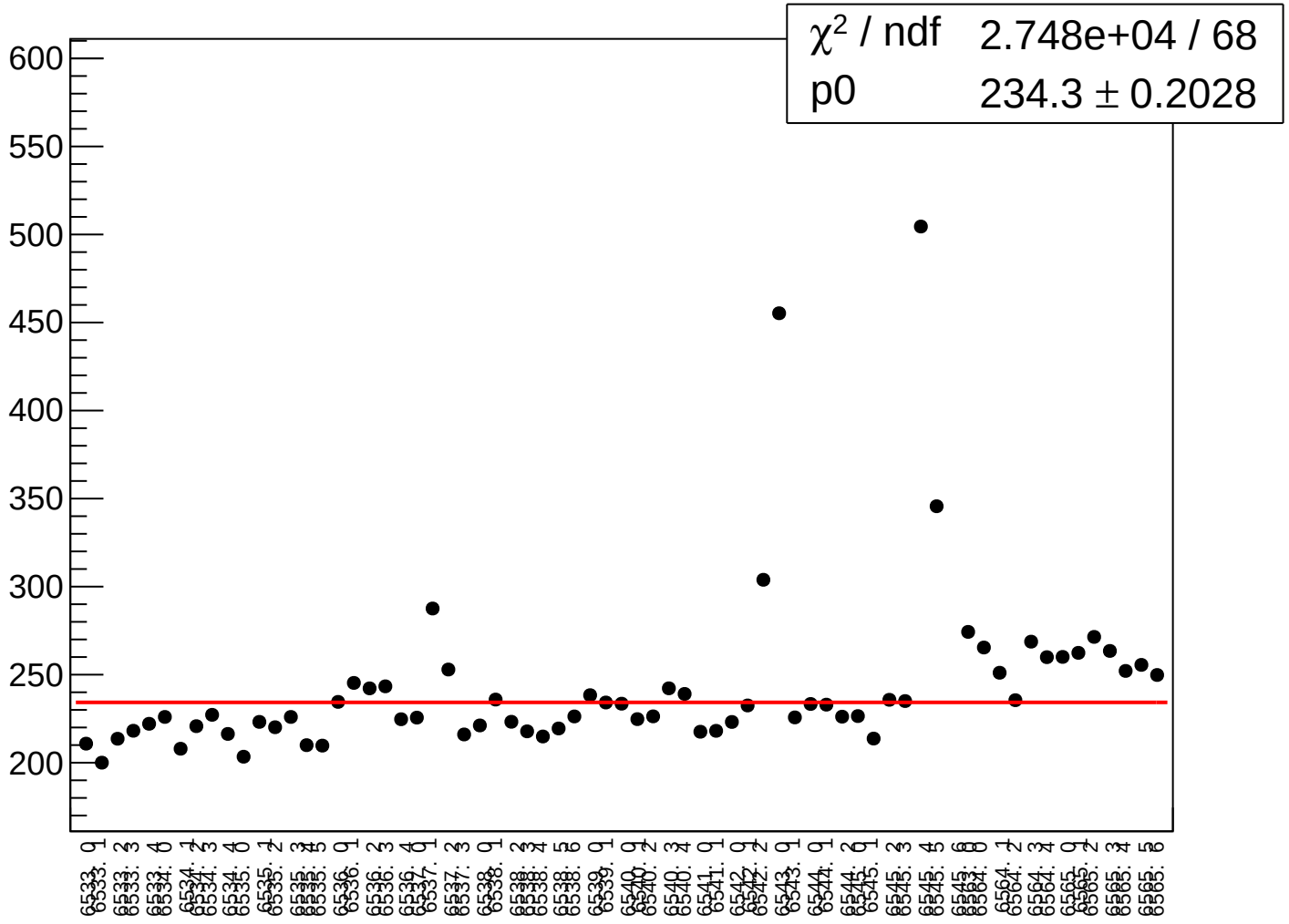

asym_bpm0l10WS_mean vs run
χ² / ndf 50.5 / 68
p0 187.4 ± 224.6
pull
Entries 69
Mean 185.9
Std Dev 151.2

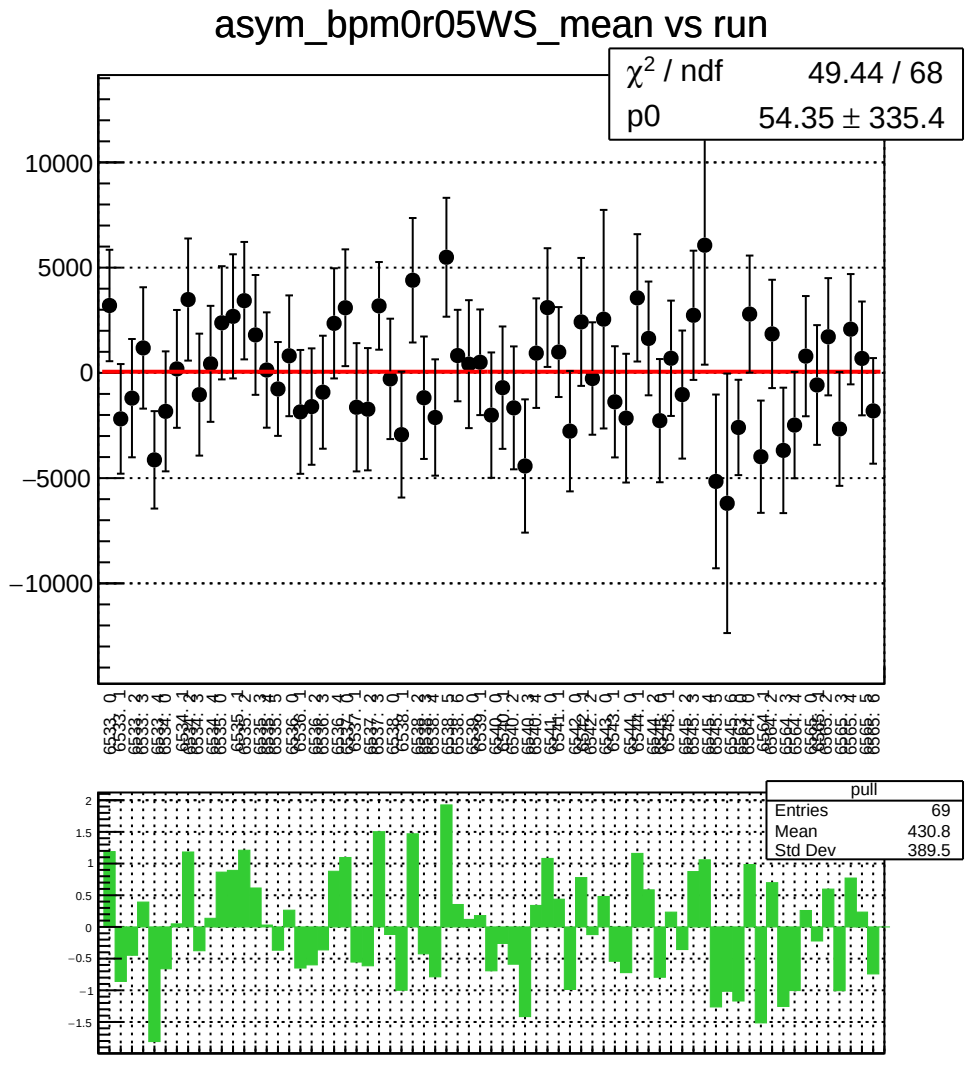

pull1D
Entries 69
Mean −0.0179
Std Dev 0.8553

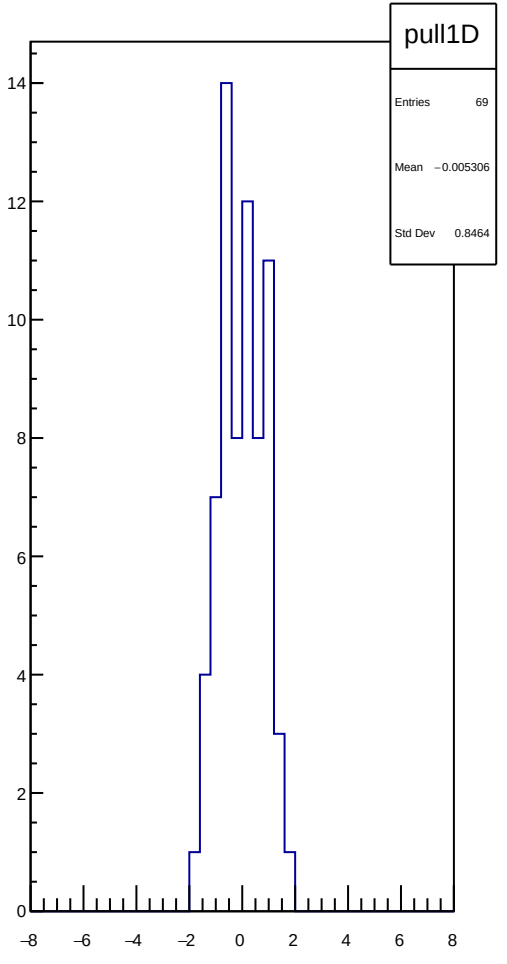

asym_bpm0l10WS_rms vs run
$\chi^2$ / ndf 3.399e+04 / 68
p0 183 ± 0.1588
600
550
500
450
400
350
300
250
200
150

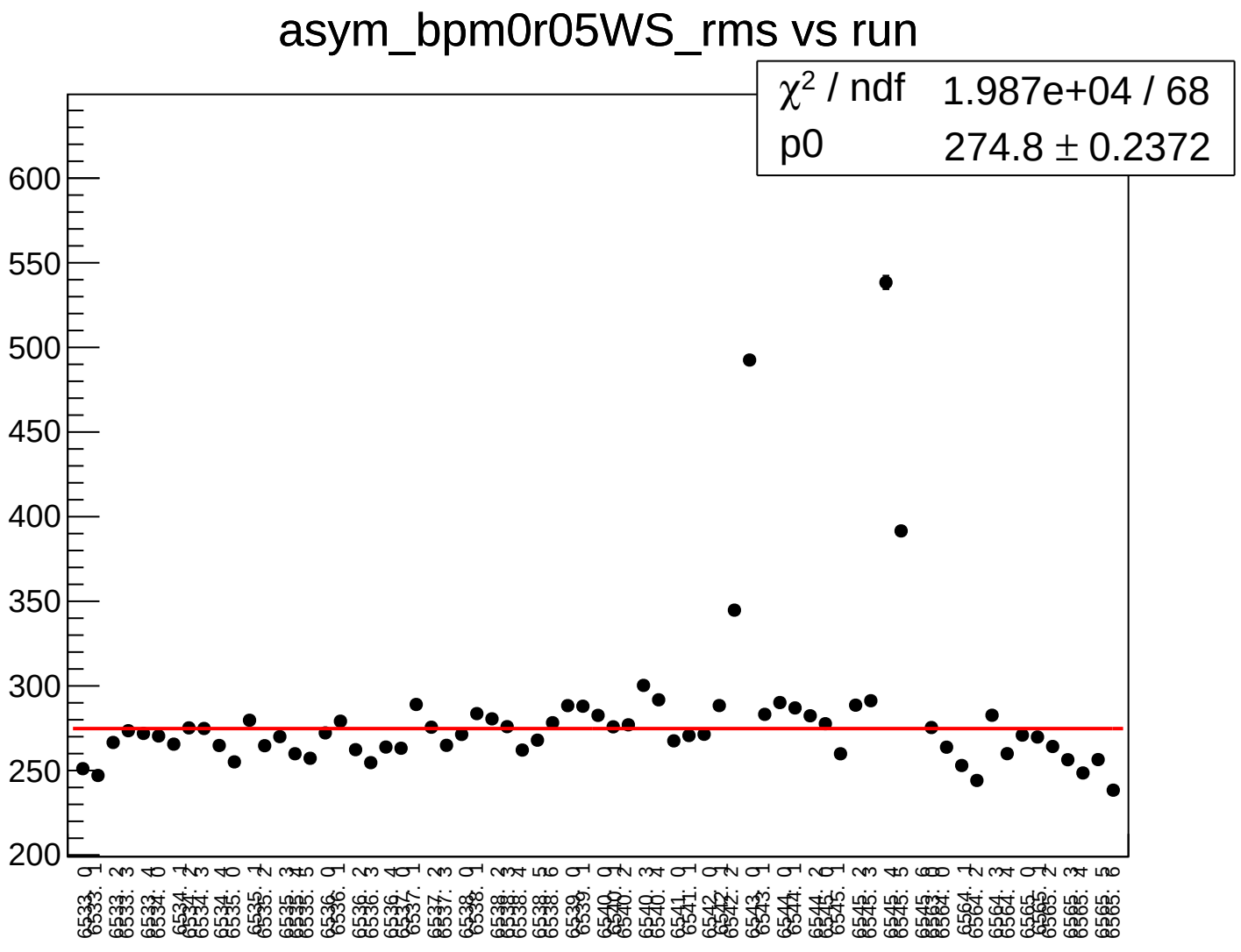

asym_bpm0r03WS_mean vs run
$\chi^2$ / ndf 68.49 / 68
p0 304.3 ± 286.8
pull
Entries 69
Mean 224.7
Std Dev 192.3

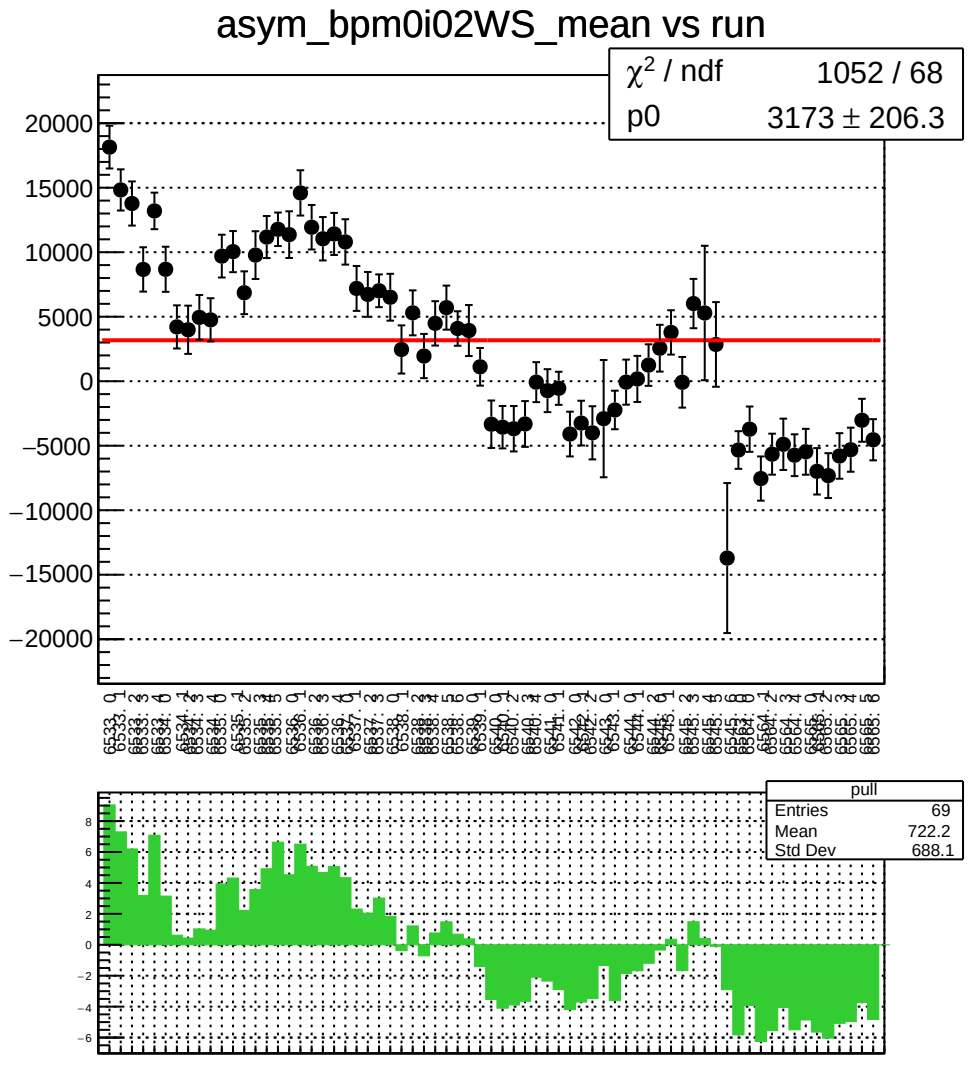

pull1D
Entries 69
Mean −0.02484
Std Dev 0.996

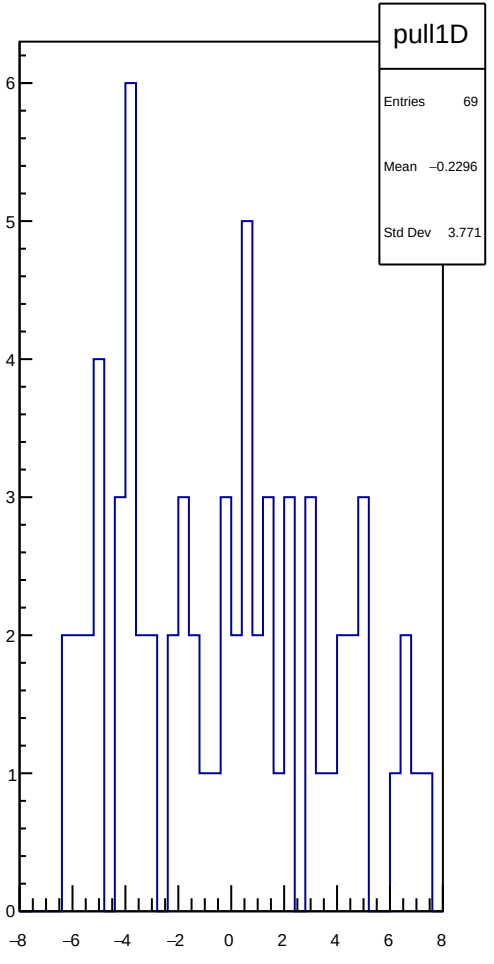

asym_bpm0r03WS_rms vs run
$\chi^2$ / ndf 2.748e+04 / 68
p0 234.3 ± 0.2028
600
550
500
450
400
350
300
250
200

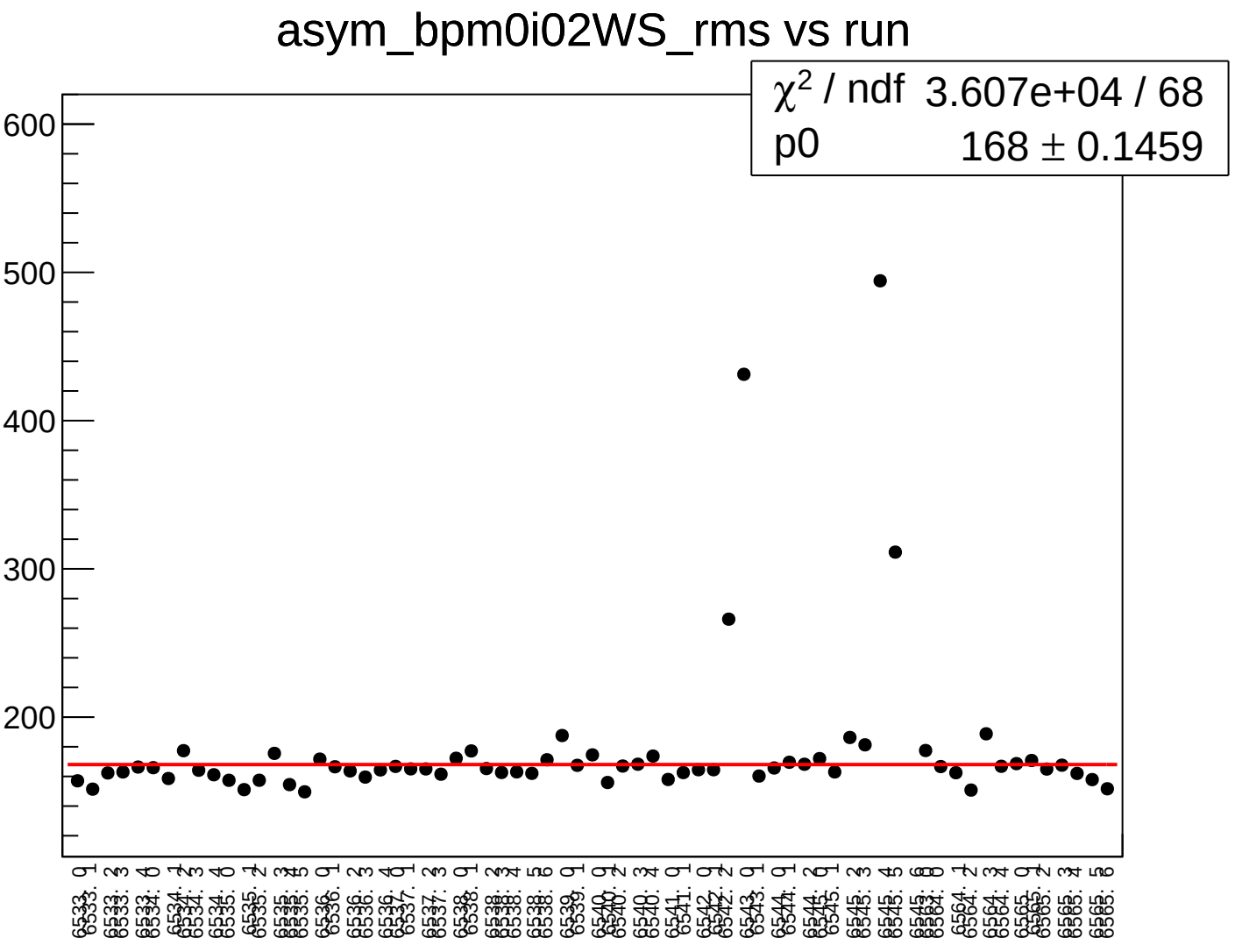

asym_bpm0r05WS_mean vs run
χ² / ndf 49.44 / 68
p0 54.35 ± 335.4
10000
5000
0
−5000
−10000
pull
Entries 69
Mean 430.8
Std Dev 389.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

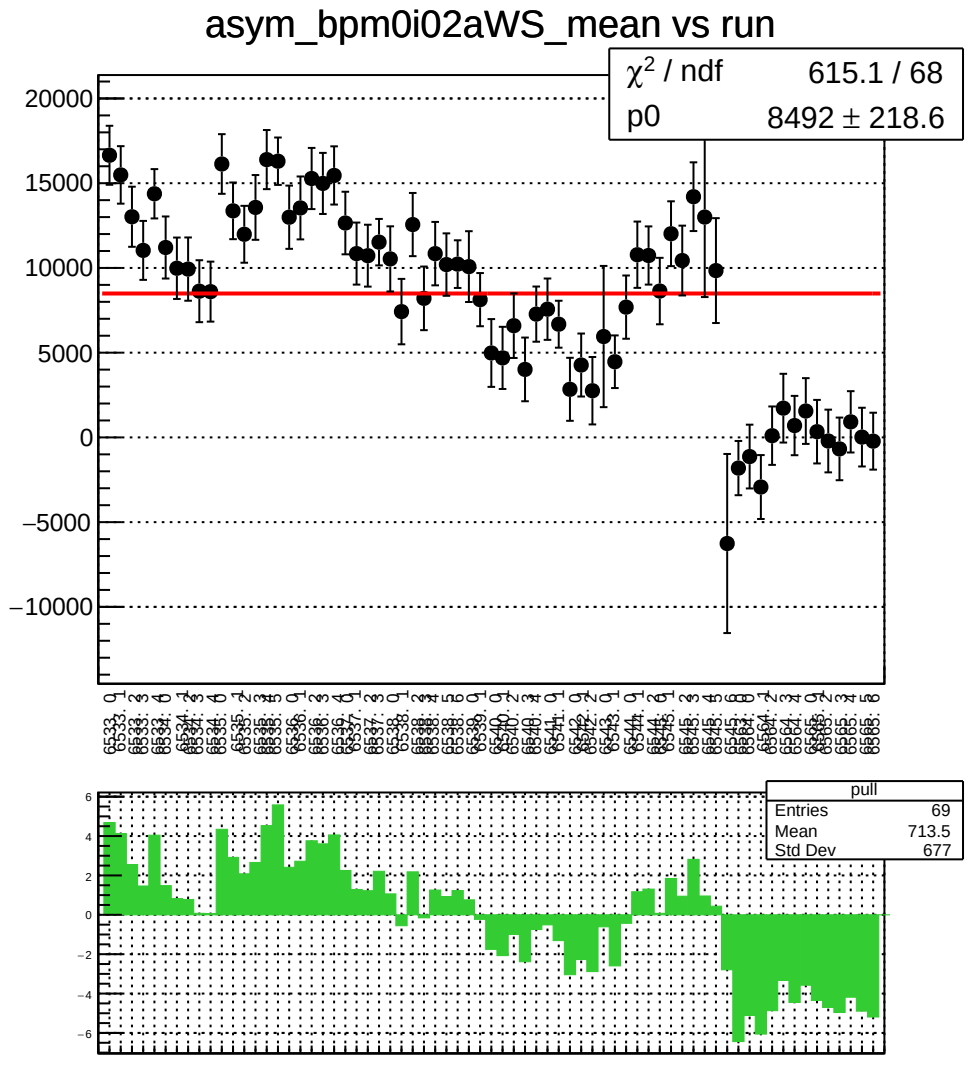

pull1D
Entries 69
Mean −0.005306
Std Dev 0.8464
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

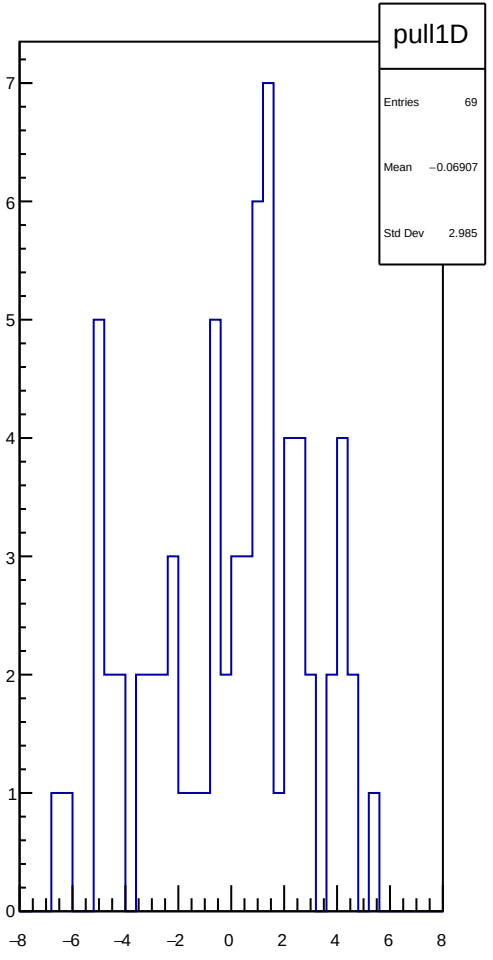

asym_bpm0r05WS_rms vs run
χ² / ndf 1.987e+04 / 68
p0 274.8 ± 0.2372
600
550
500
450
400
350
300
250
200

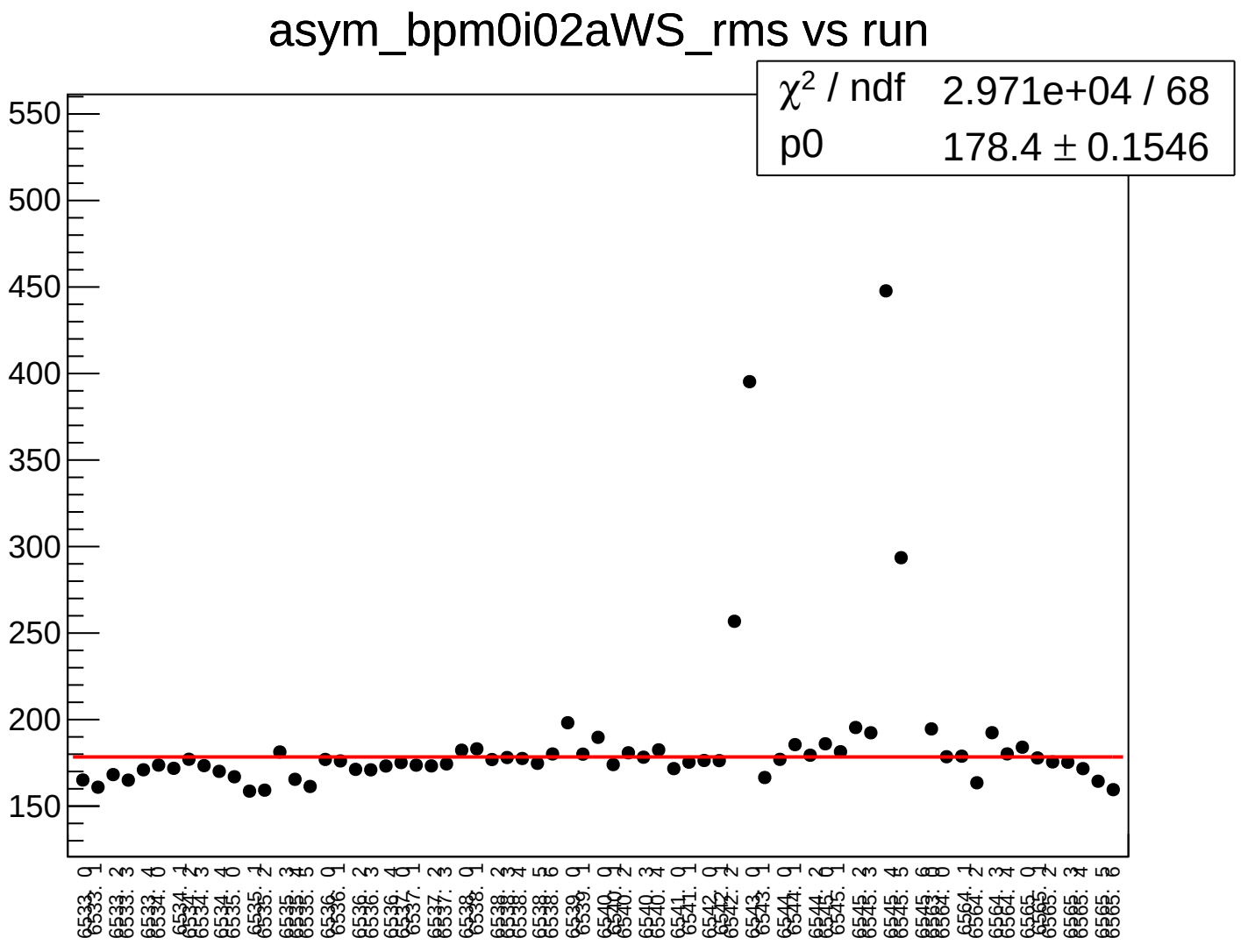

asym_bpm0i02WS_mean vs run
χ² / ndf 1052 / 68
p0 3173 ± 206.3
pull
Entries 69
Mean 722.2
Std Dev 688.1

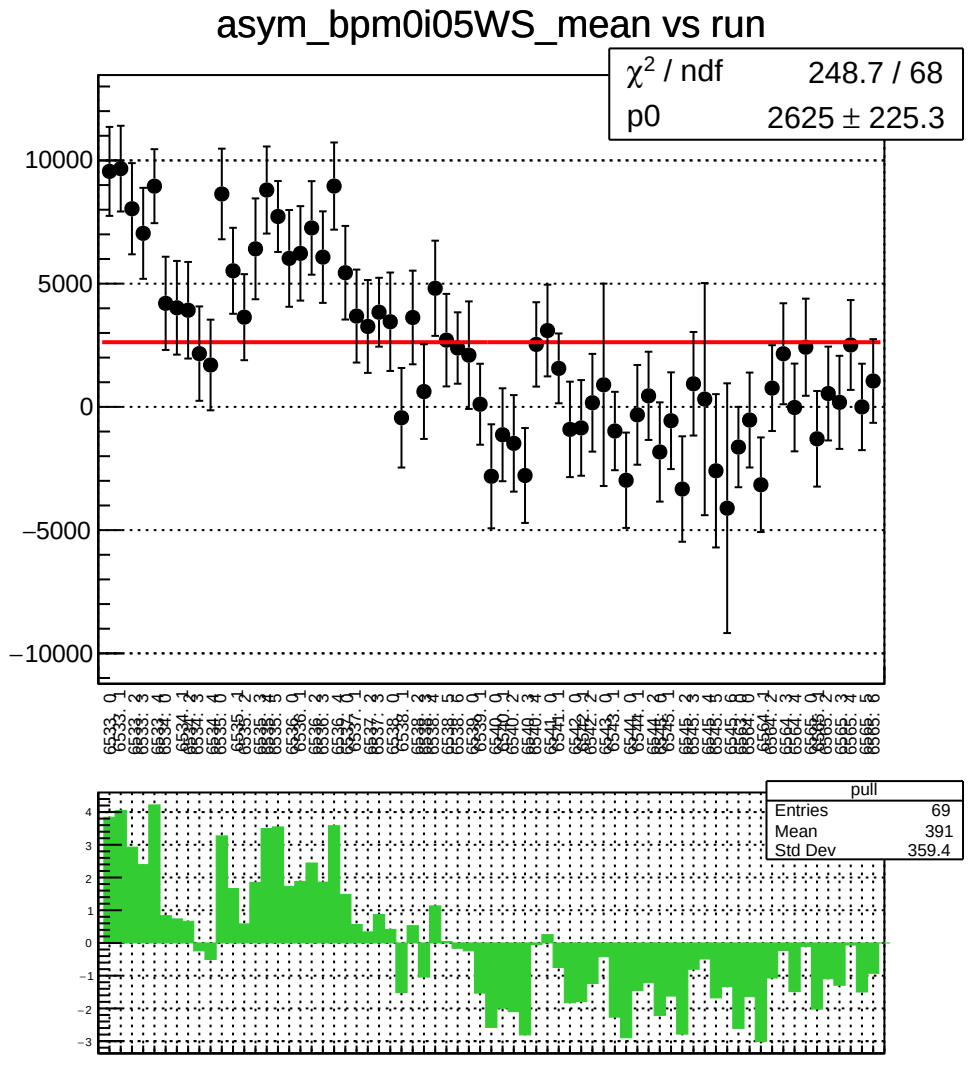

pull1D
Entries 69
Mean −0.2296
Std Dev 3.771

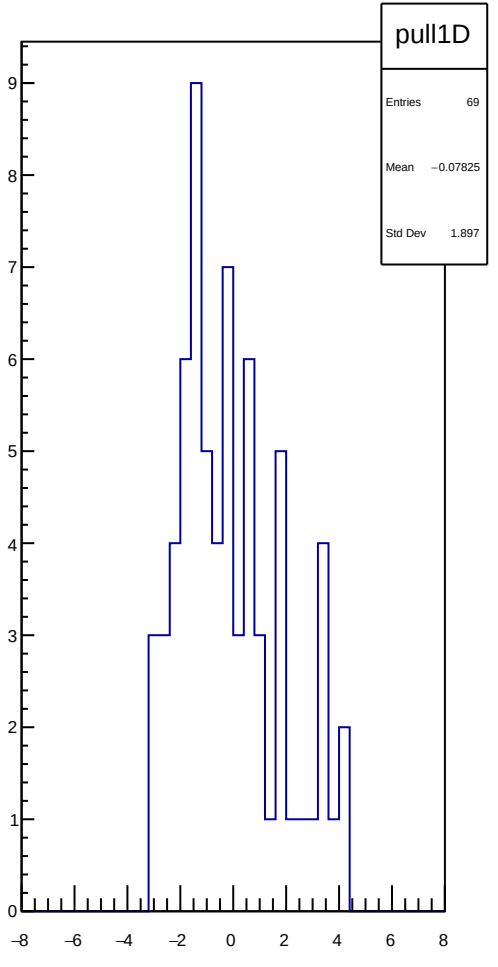

asym_bpm0i02WS_rms vs run
$\chi^2$ / ndf 3.607e+04 / 68
p0 168 ± 0.1459
600
500
400
300
200

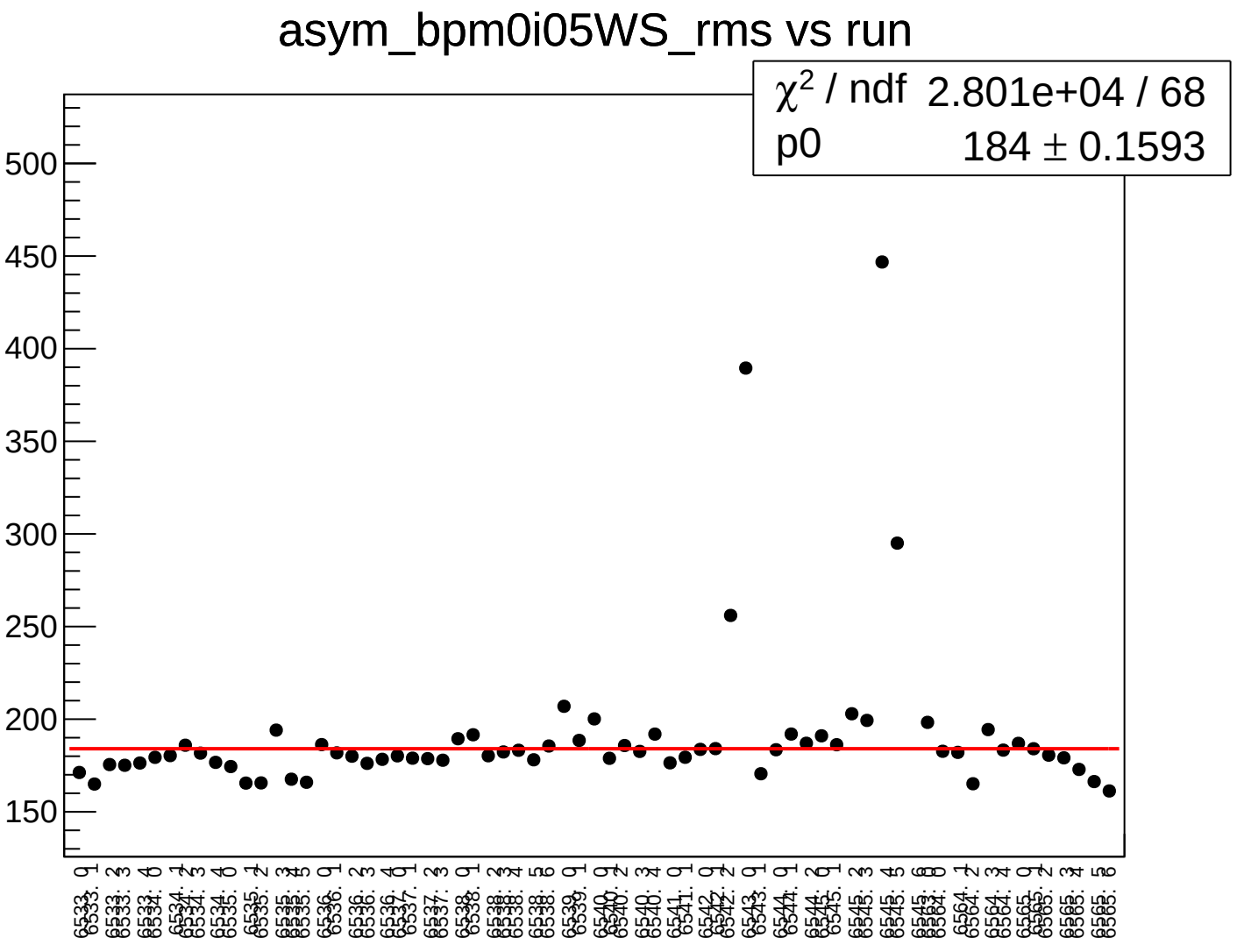

asym_bpm0i02aWS_mean vs run
χ² / ndf 615.1 / 68
p0 8492 ± 218.6
pull
Entries 69
Mean 713.5
Std Dev 677

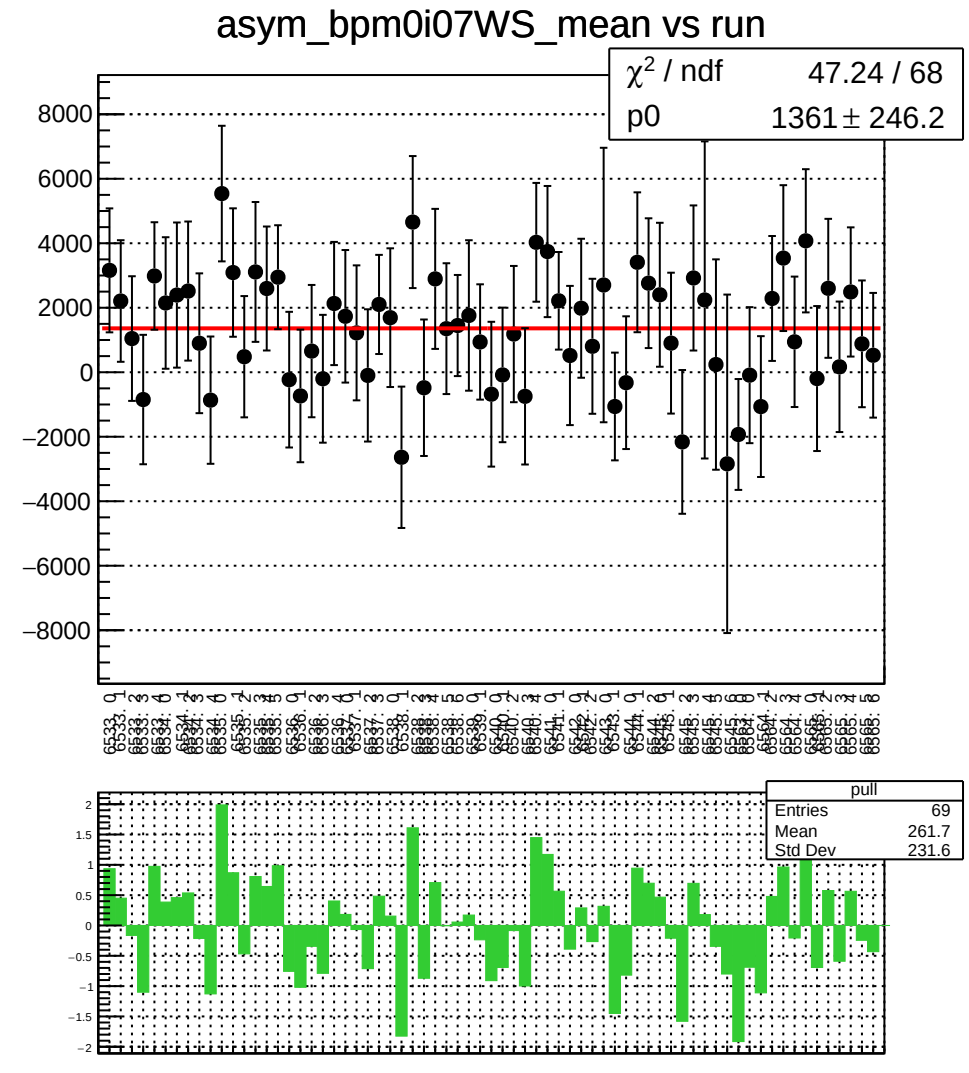

pull1D
Entries 69
Mean −0.06907
Std Dev 2.985

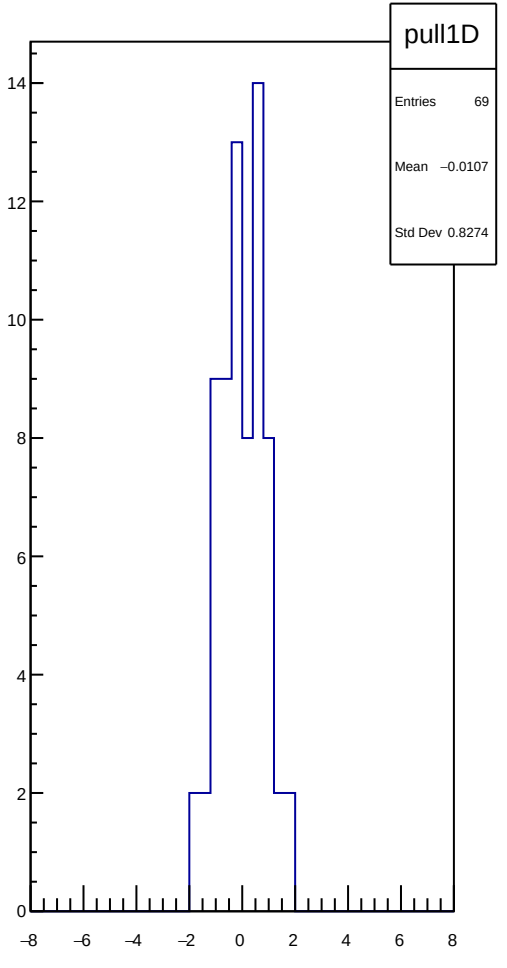

asym_bpm0i02aWS_rms vs run
χ² / ndf 2.971e+04 / 68
p0 178.4 ± 0.1546
550
500
450
400
350
300
250
200
150

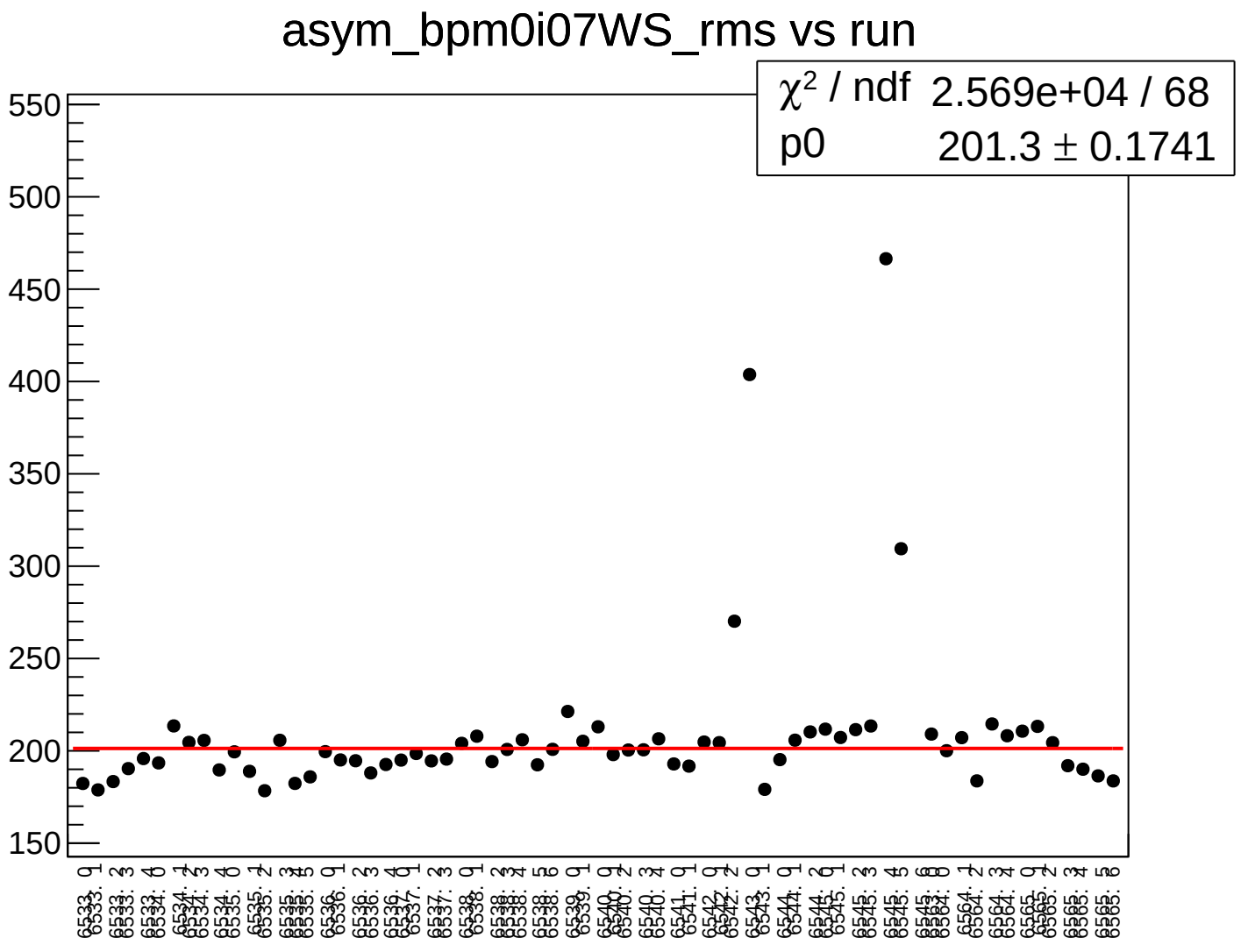

asym_bpm0i05WS_mean vs run
$\chi^2$ / ndf 248.7 / 68
p0 2625 ± 225.3
10000
5000
0
−5000
−10000
pull
Entries 69
Mean 391
Std Dev 359.4
4
3
2
1
0
−1
−2
−3

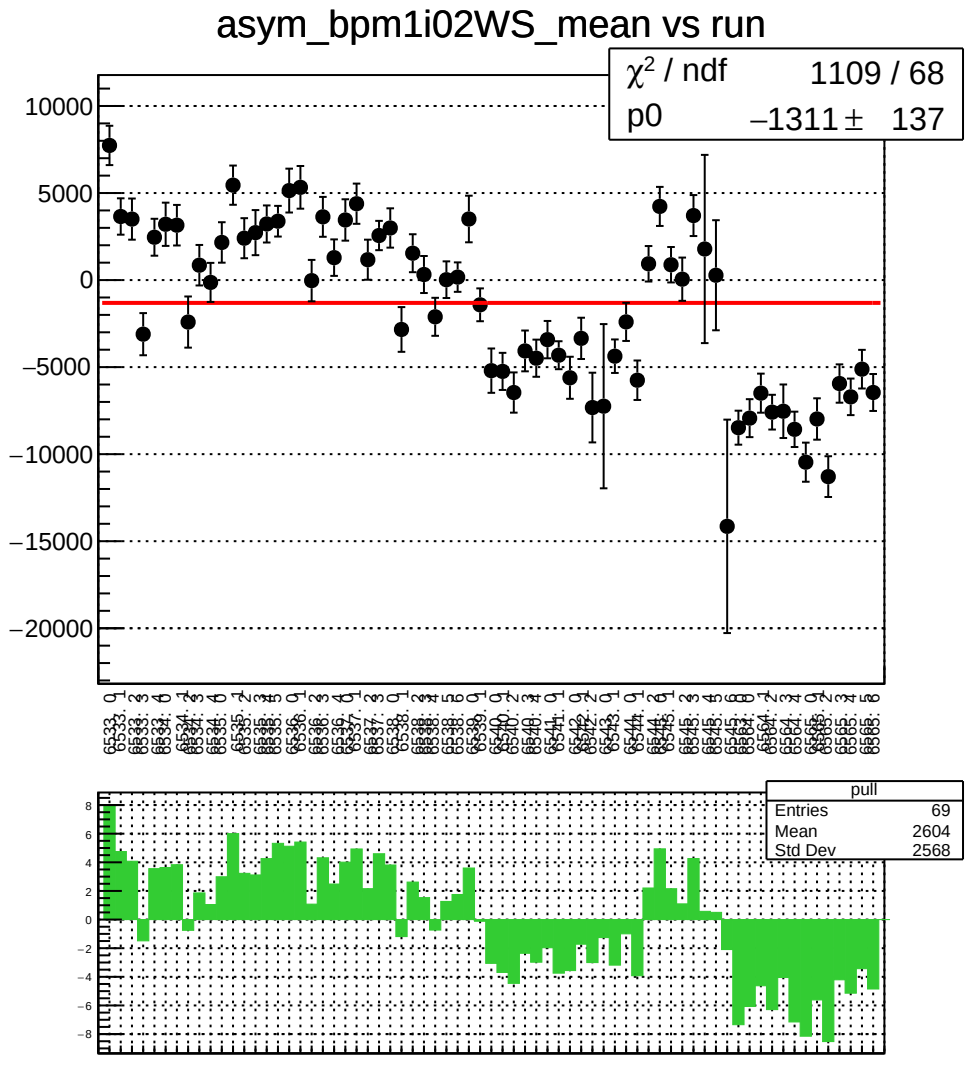

pull1D
Entries 69
Mean −0.07825
Std Dev 1.897
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

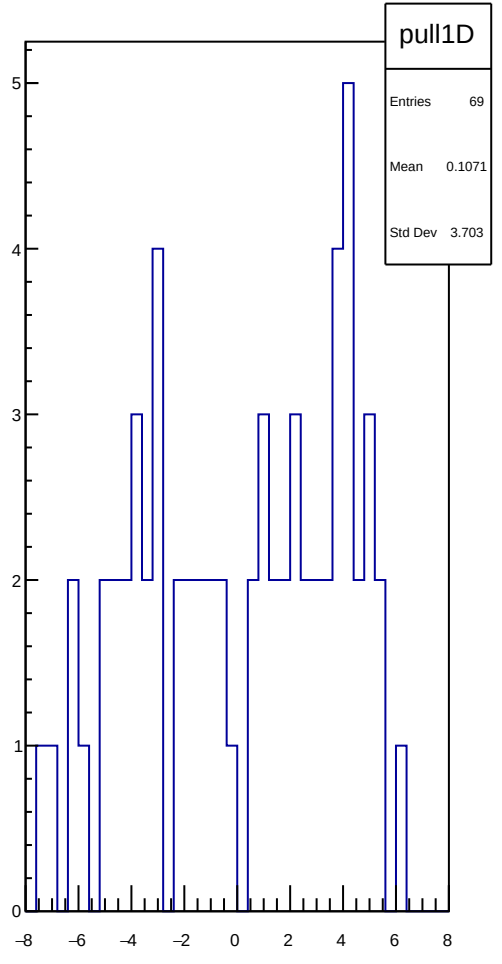

asym_bpm0i05WS_rms vs run
$\chi^2$ / ndf 2.801e+04 / 68
p0 184 ± 0.1593
500
450
400
350
300
250
200
150

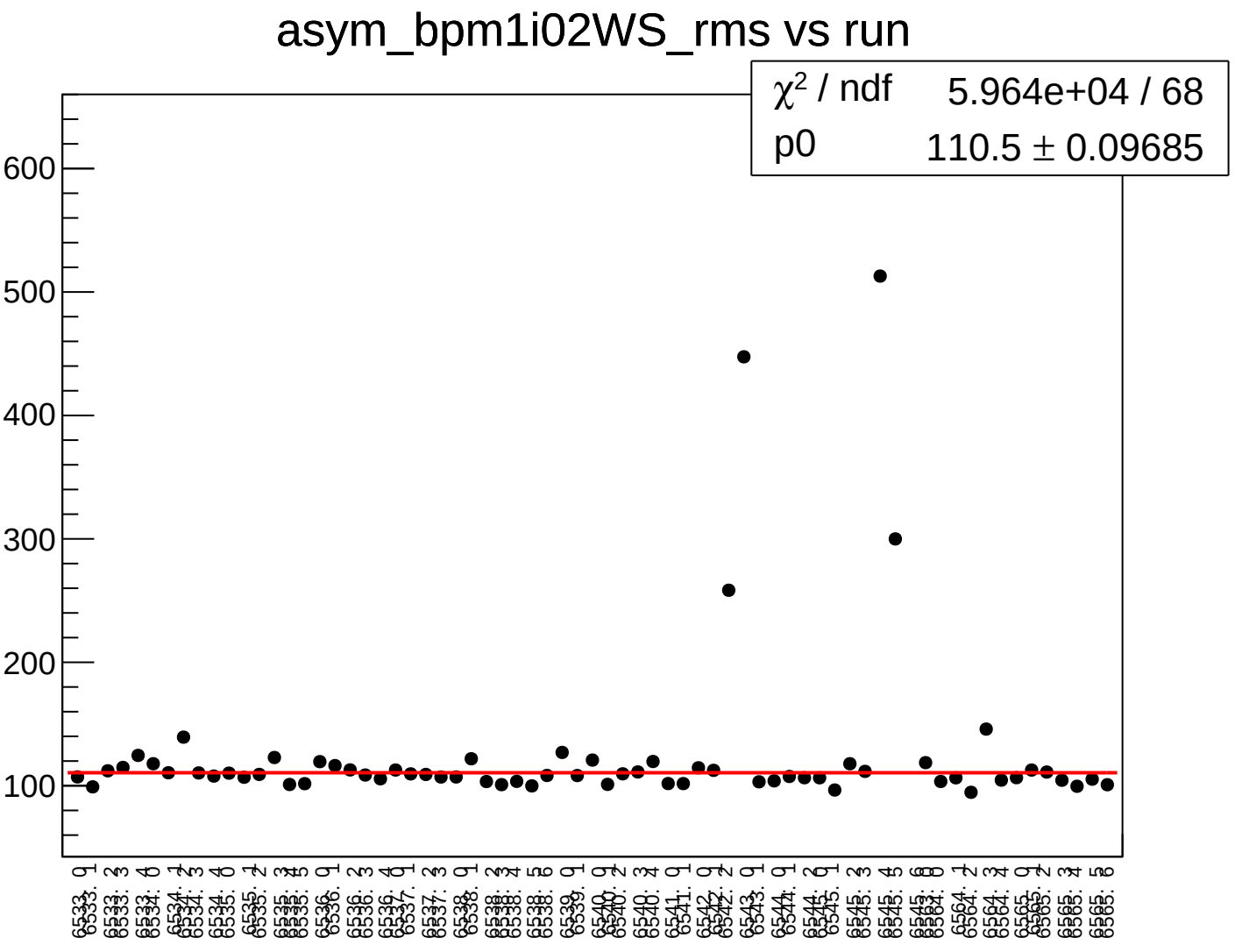

asym_bpm0i07WS_mean vs run
χ² / ndf 47.24 / 68
p0 1361 ± 246.2
pull
Entries 69
Mean 261.7
Std Dev 231.6

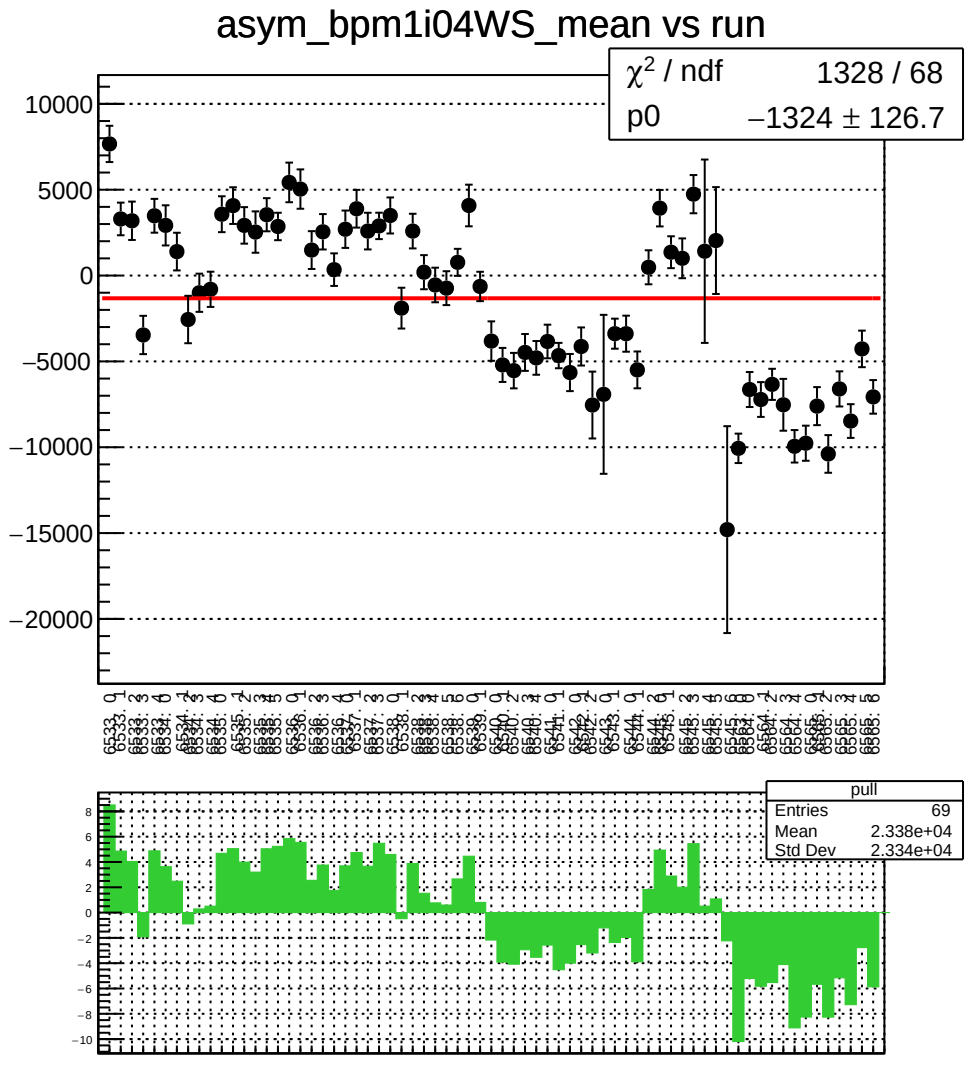

pull1D
Entries 69
Mean −0.0107
Std Dev 0.8274

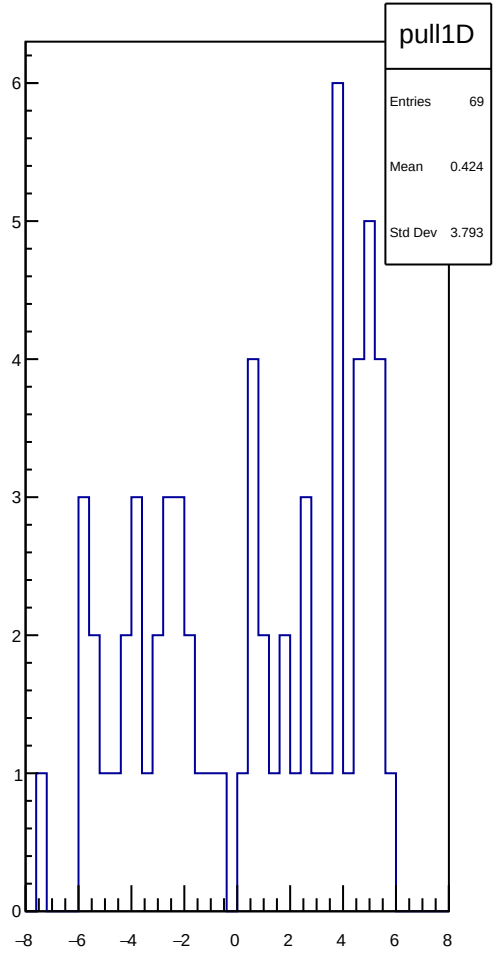

asym_bpm0i07WS_rms vs run
χ² / ndf 2.569e+04 / 68
p0 201.3 ± 0.1741
550
500
450
400
350
300
250
200
150

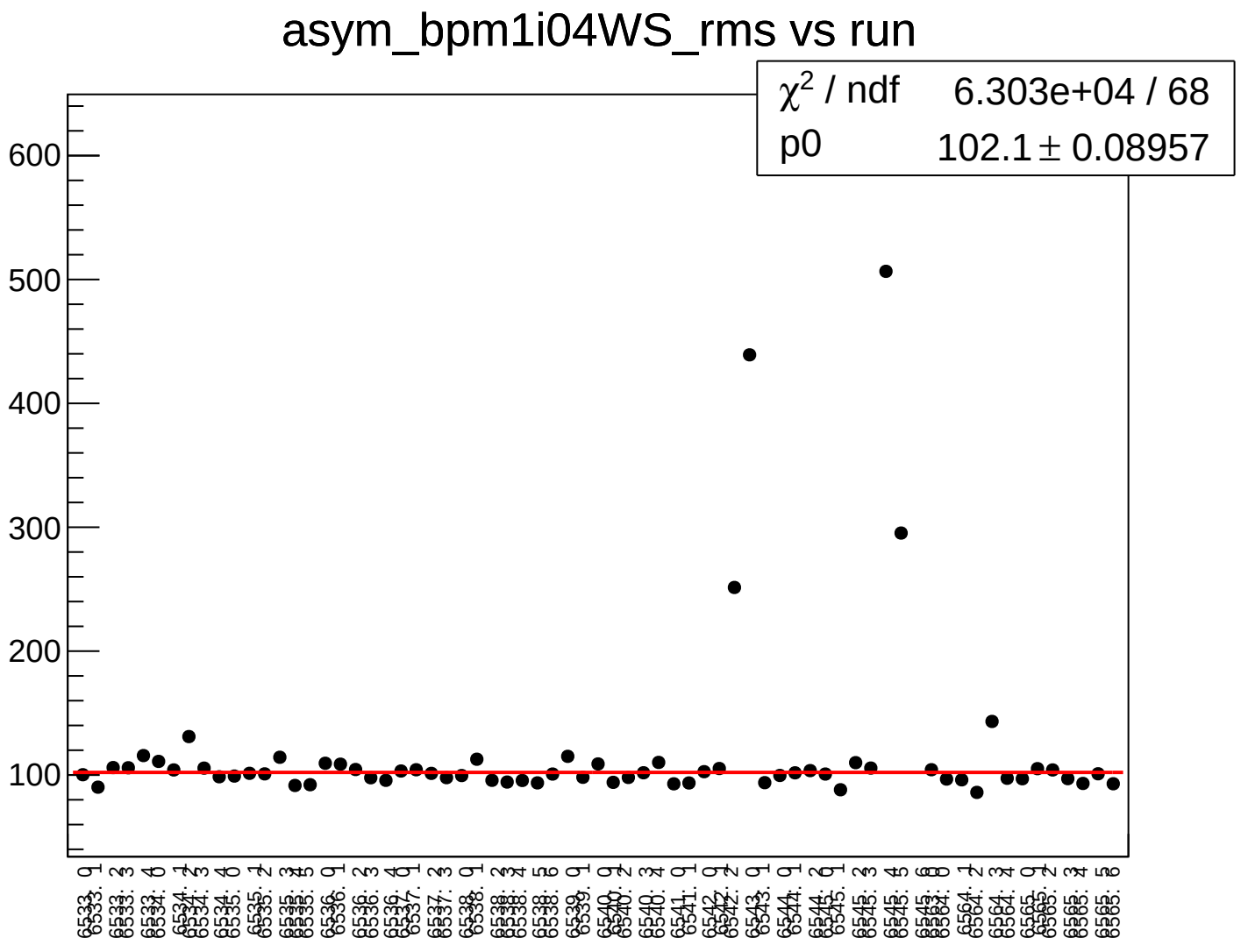

asym_bpm1i02WS_mean vs run
χ² / ndf 1109 / 68
p0 −1311 ± 137
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 69
Mean 2604
Std Dev 2568
8
6
4
2
0
−2
−4
−6
−8

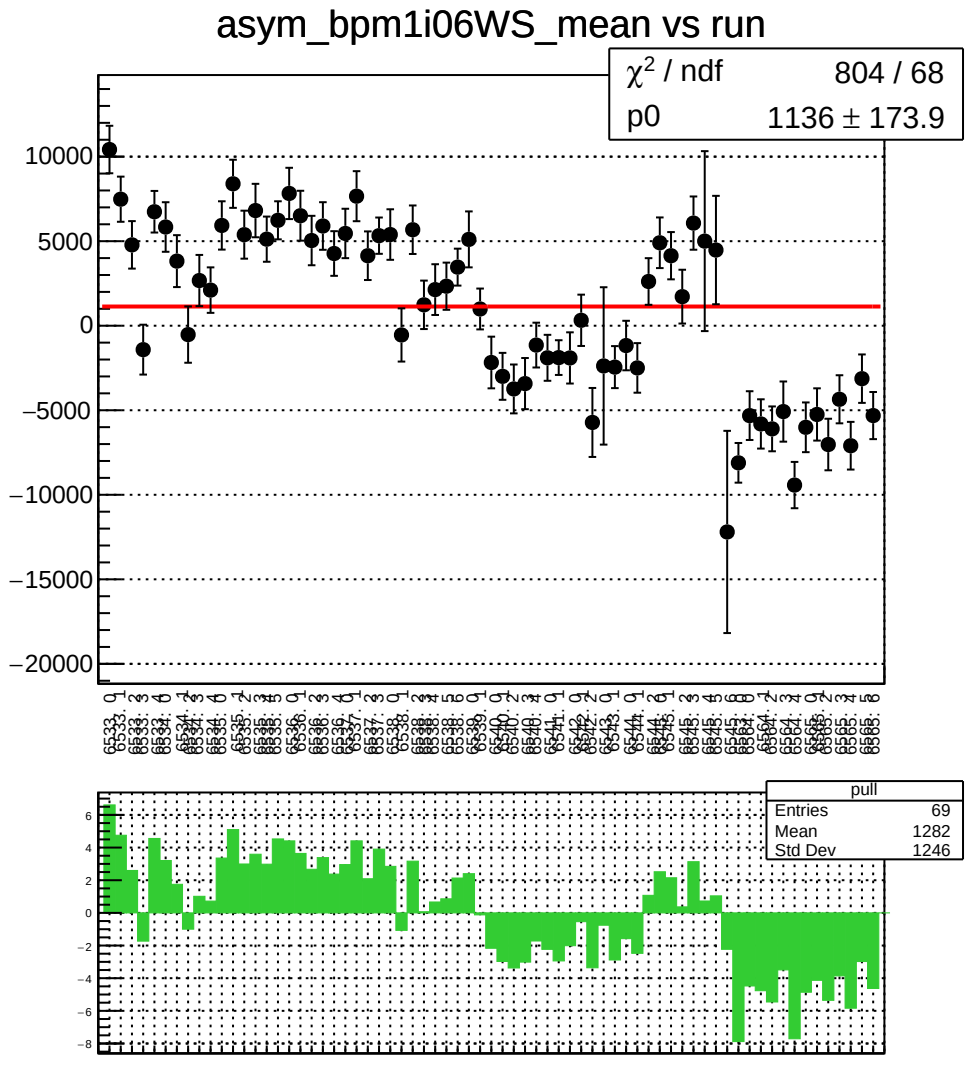

pull1D
Entries 69
Mean 0.1071
Std Dev 3.703
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

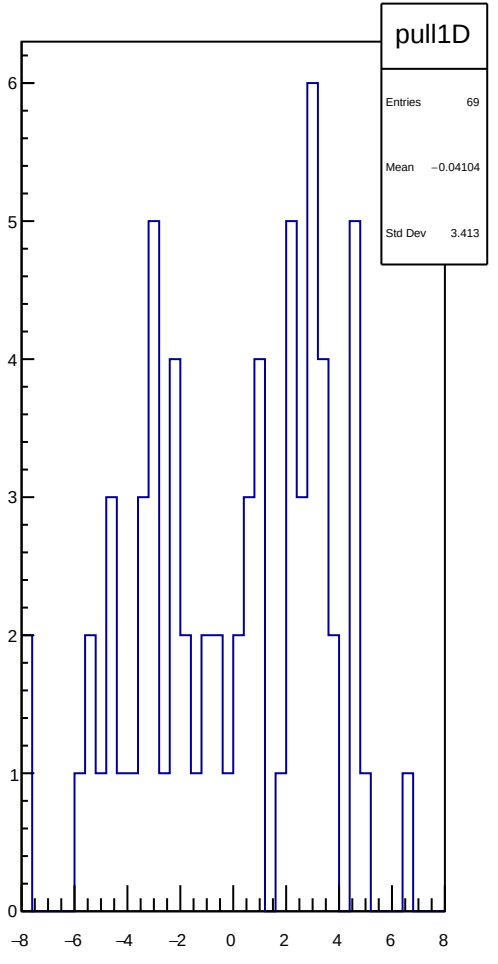

asym_bpm1i02WS_rms vs run
$\chi^2$ / ndf 5.964e+04 / 68
p0 110.5 ± 0.09685
600
500
400
300
200
100

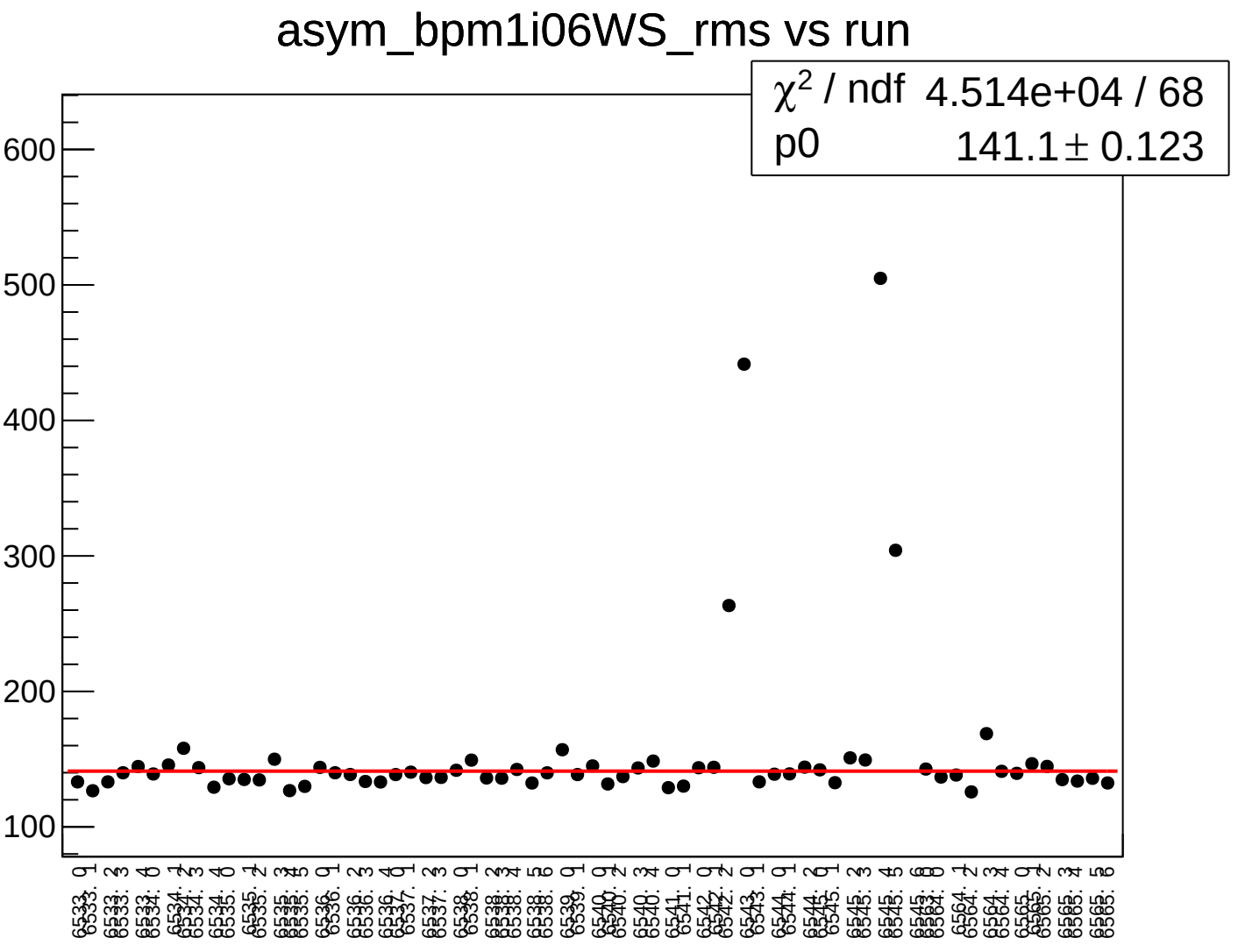

asym_bpm1i04WS_mean vs run
χ² / ndf 1328 / 68
p0 −1324 ± 126.7
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 69
Mean 2.338e+04
Std Dev 2.334e+04
8
6
4
2
0
−2
−4
−6
−8
−10

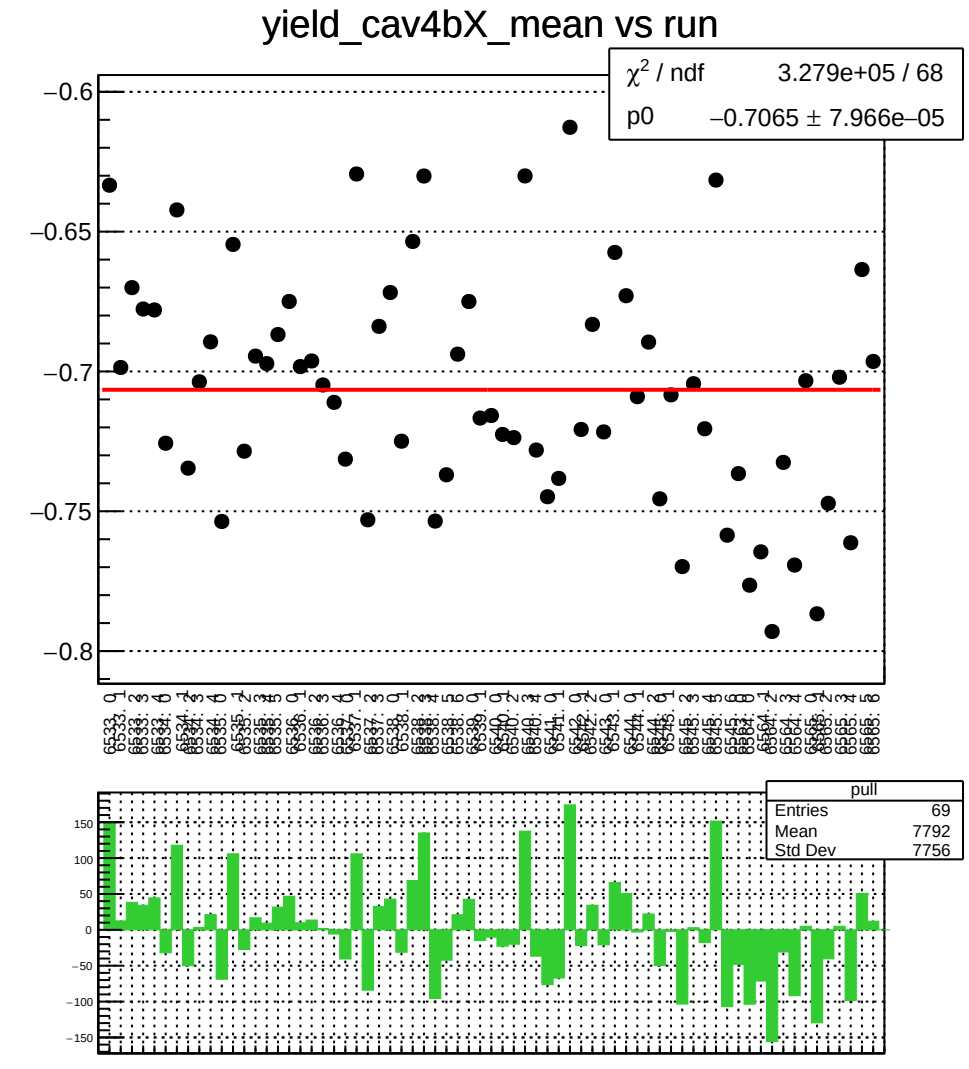

pull1D
Entries 69
Mean 0.424
Std Dev 3.793
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

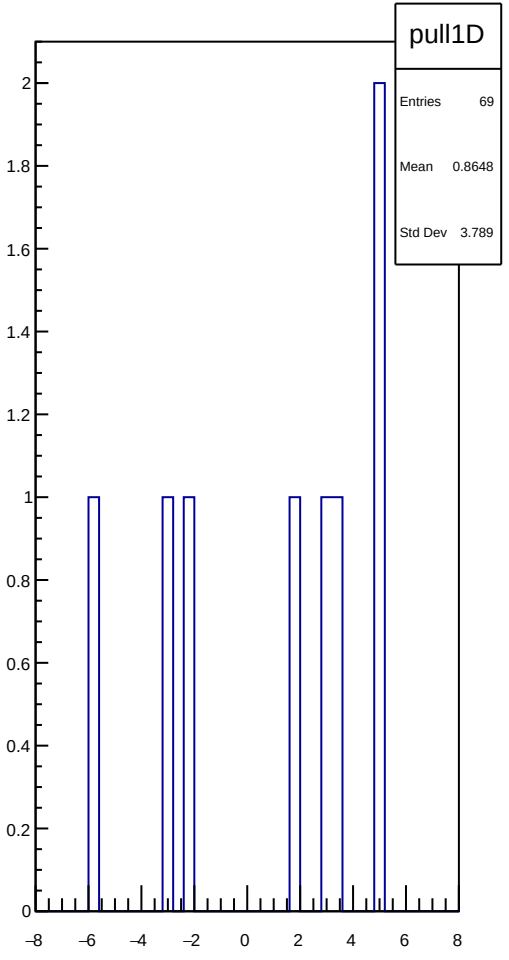

asym_bpm1i04WS_rms vs run
$\chi^2$ / ndf 6.303e+04 / 68
p0 102.1 ± 0.08957
600
500
400
300
200
100

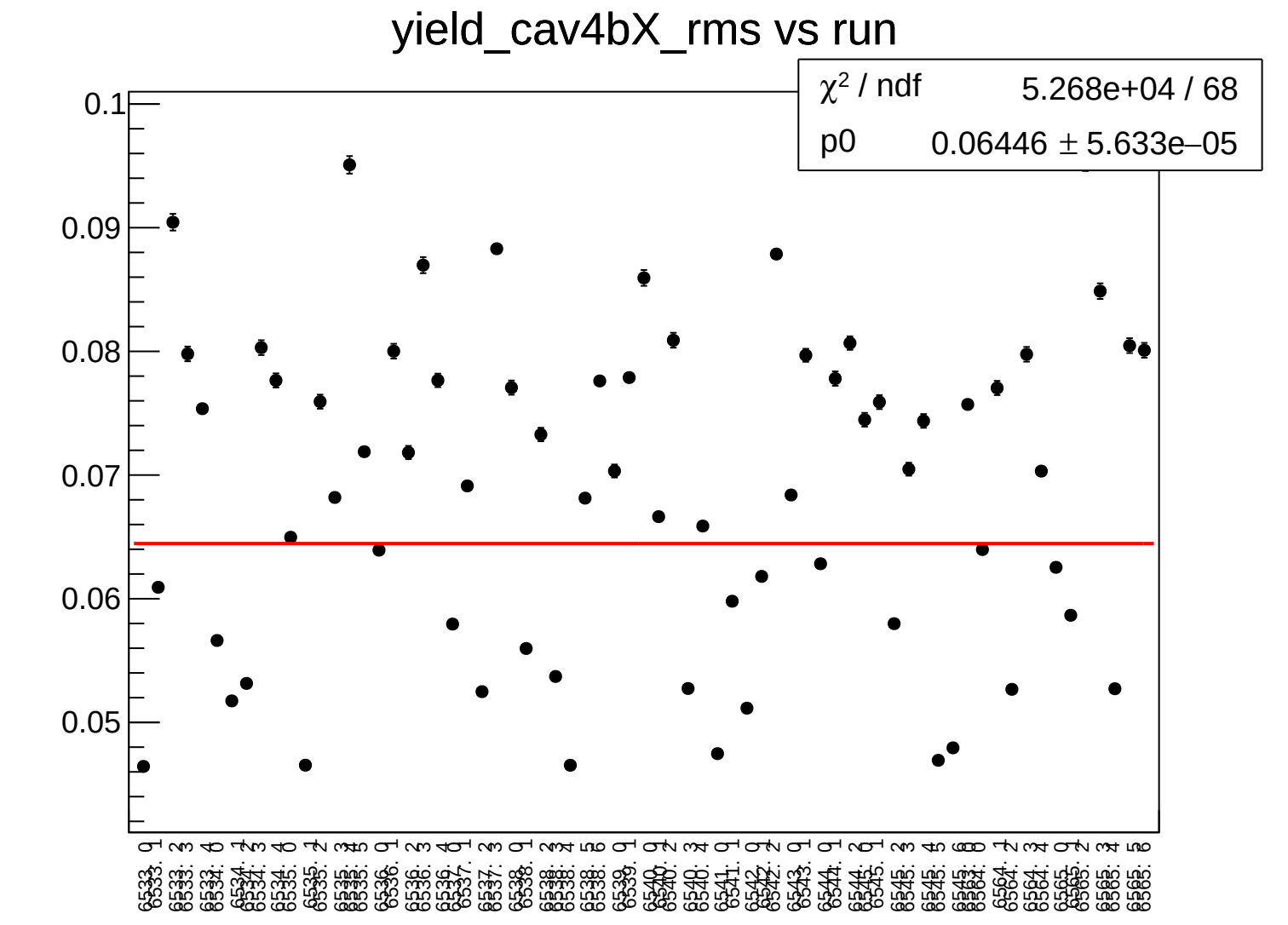

asym_bpm1i06WS_mean vs run
χ² / ndf 804 / 68
p0 1136 ± 173.9
pull
Entries 69
Mean 1282
Std Dev 1246

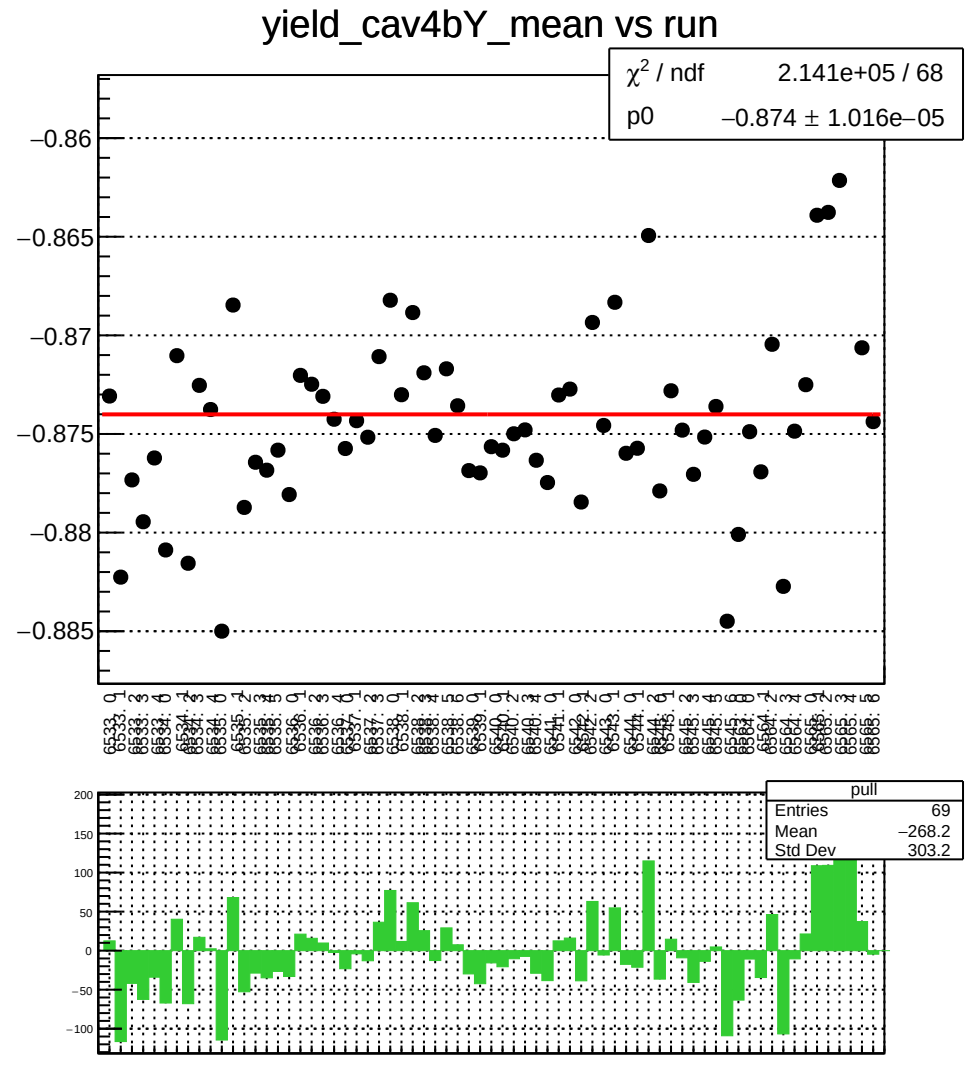

pull1D
Entries 69
Mean −0.04104
Std Dev 3.413

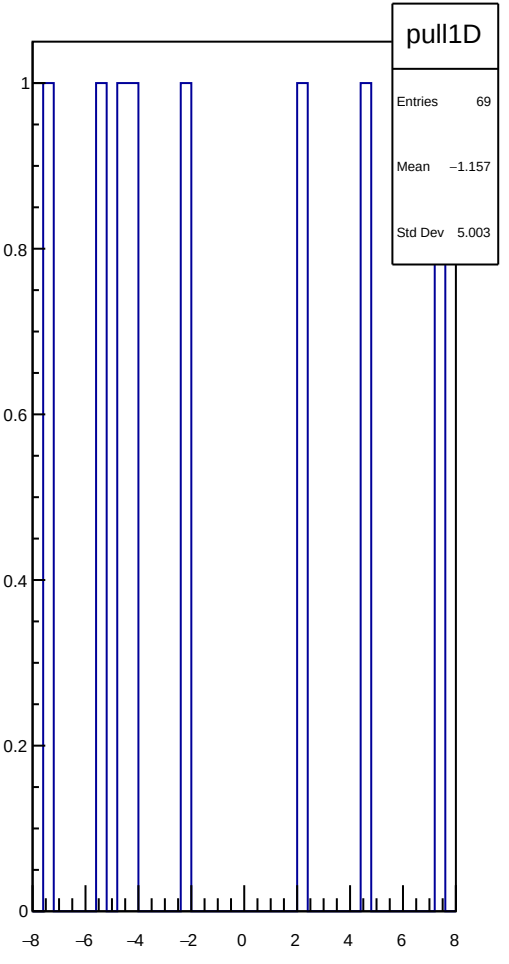

asym_bpm1i06WS_rms vs run
$\chi^2$ / ndf 4.514e+04 / 68
p0 141.1 ± 0.123
600
500
400
300
200
100

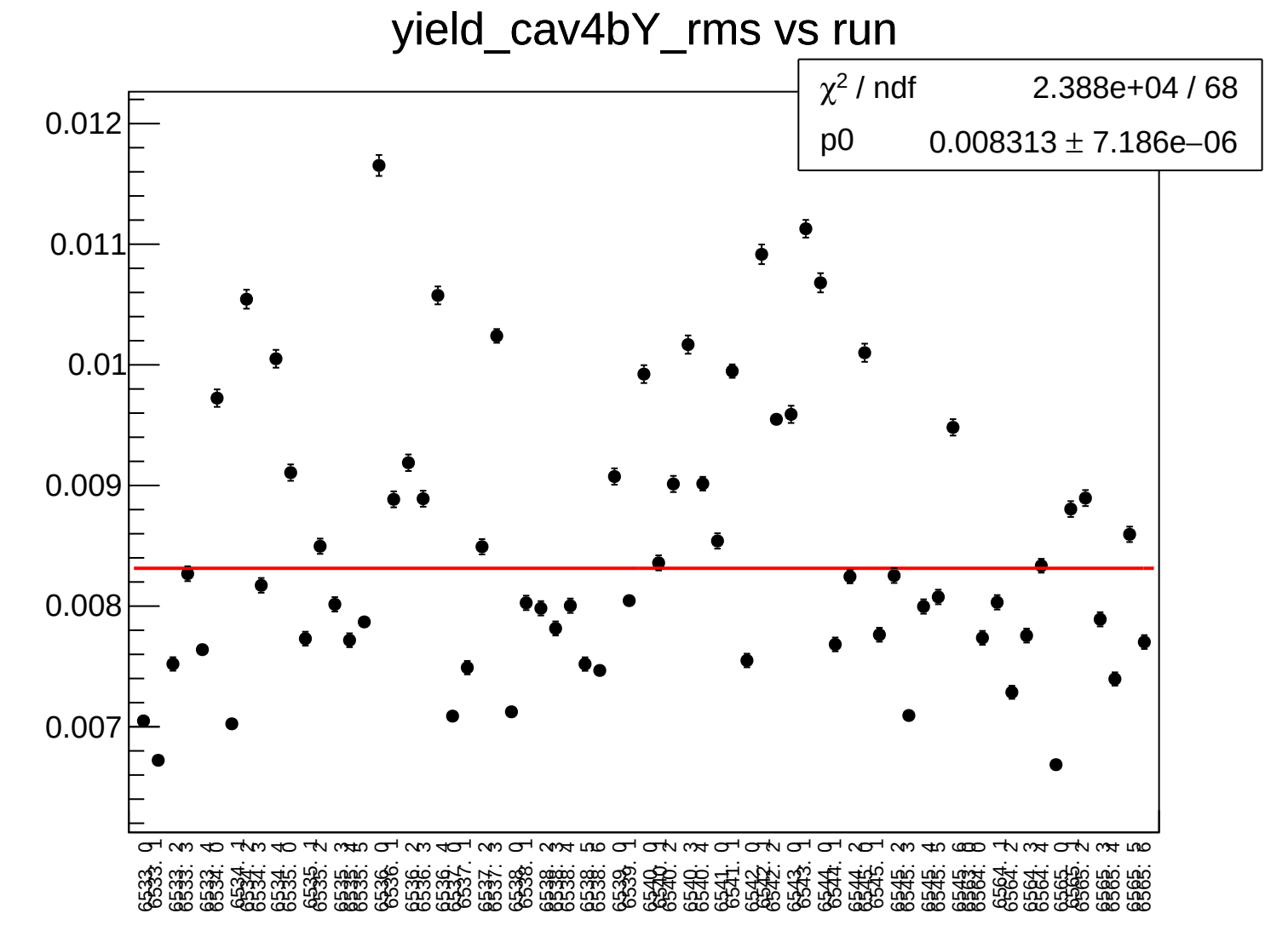

yield_cav4bX_mean vs run
χ² / ndf 3.279e+05 / 68
p0 −0.7065 ± 7.966e−05
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 69
Mean 7792
Std Dev 7756
150
100
50
0
−50
−100
−150

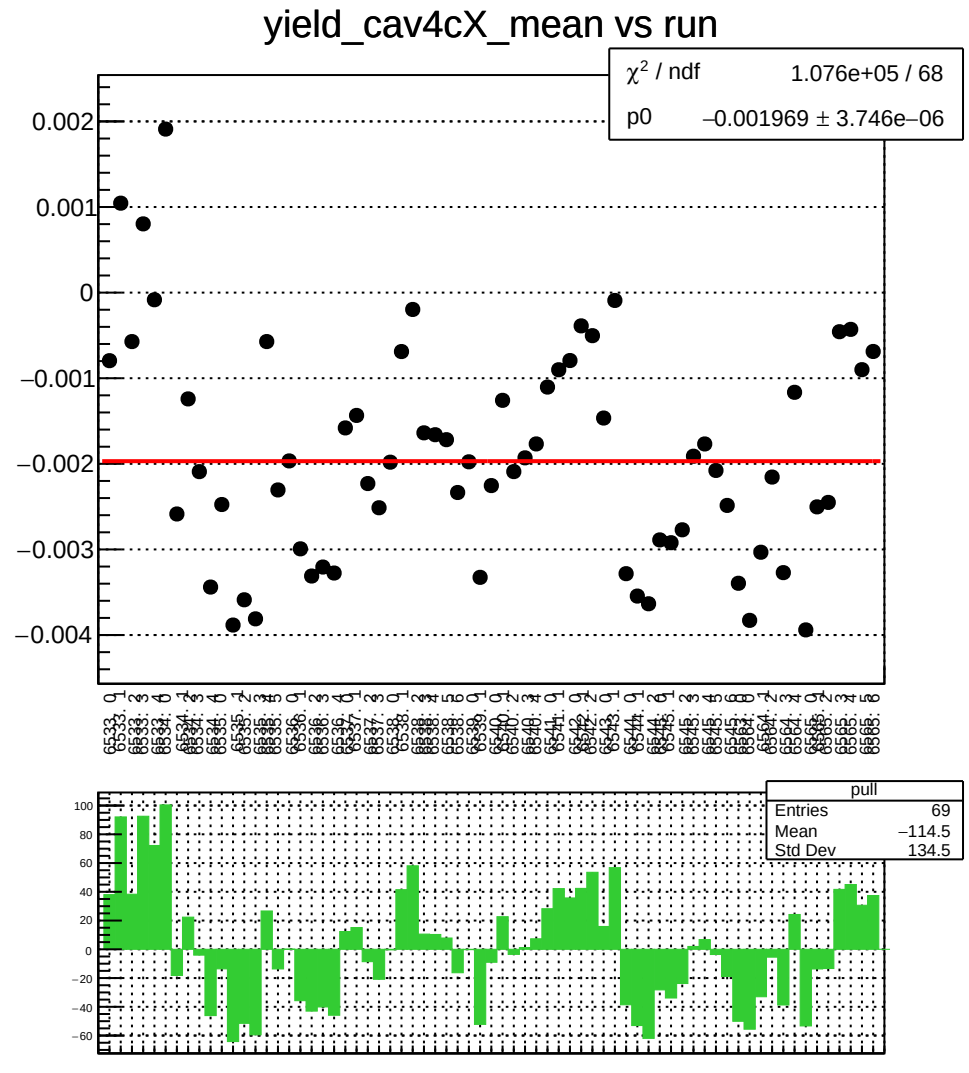

pull1D
Entries 69
Mean 0.8648
Std Dev 3.789
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

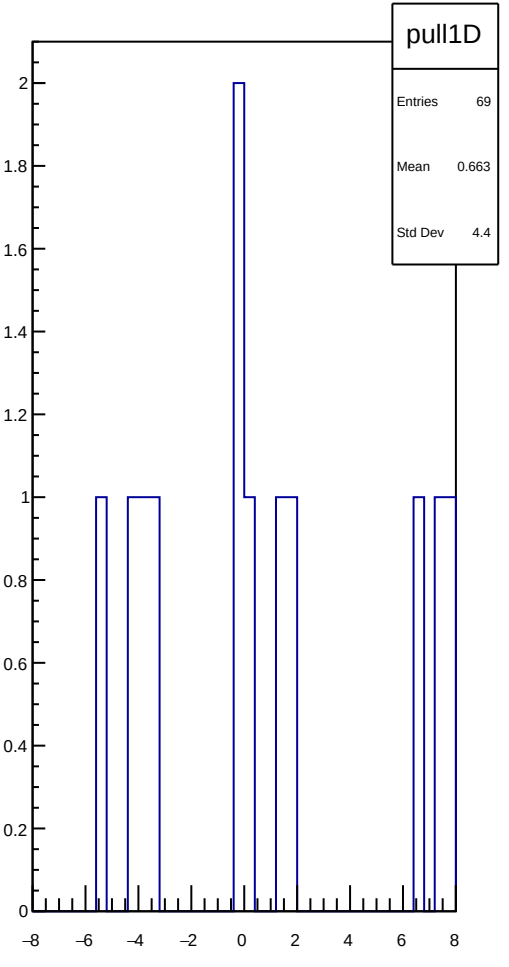

yield_cav4bX_rms vs run
χ² / ndf 5.268e+04 / 68
p0 0.06446 ± 5.633e−05
0.1
0.09
0.08
0.07
0.06
0.05

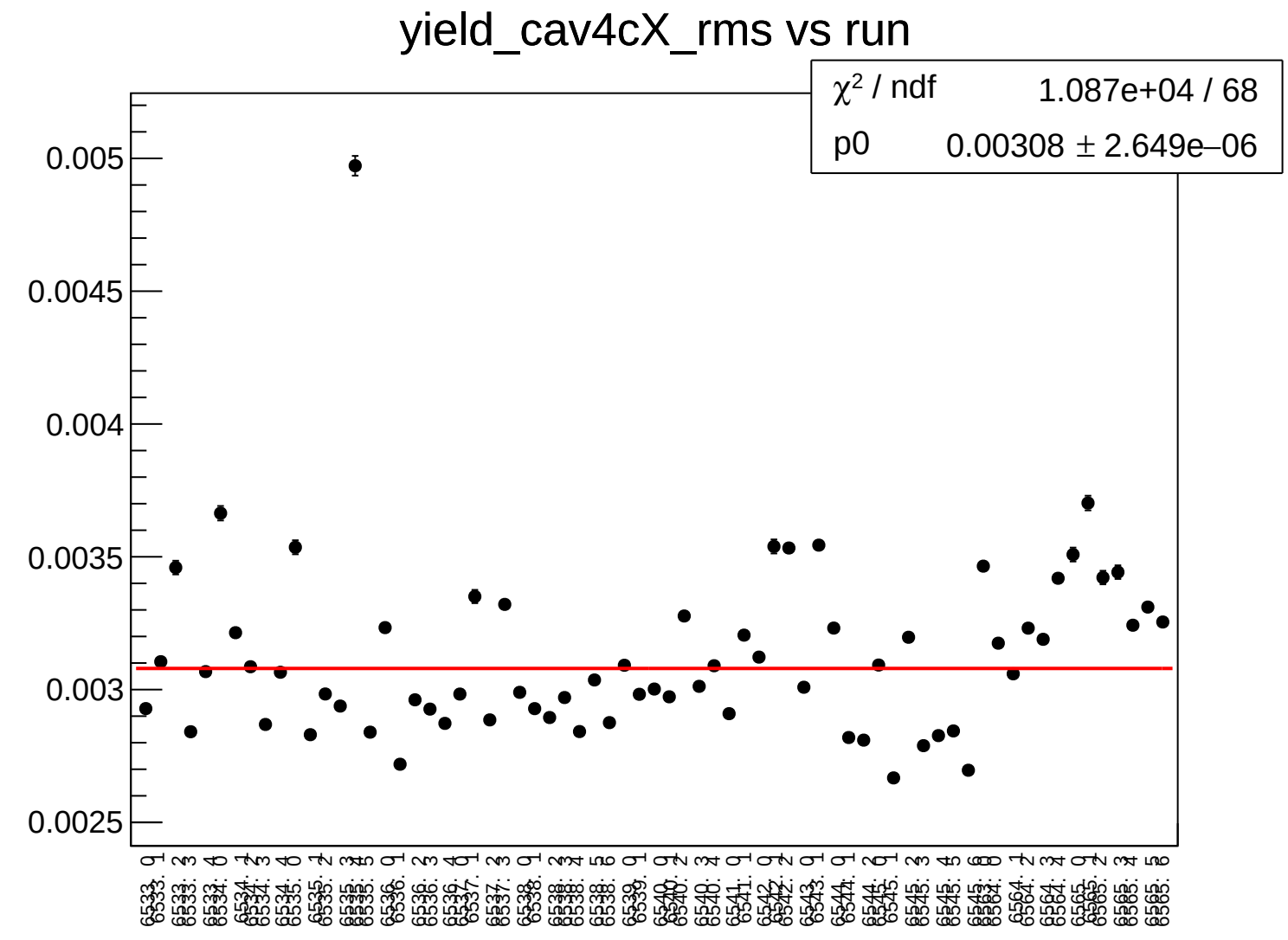

yield_cav4bY_mean vs run
χ² / ndf 2.141e+05 / 68
p0 −0.874 ± 1.016e−05
−0.86
−0.865
−0.87
−0.875
−0.88
−0.885
pull
Entries 69
Mean −268.2
Std Dev 303.2
200
150
100
50
0
−50
−100

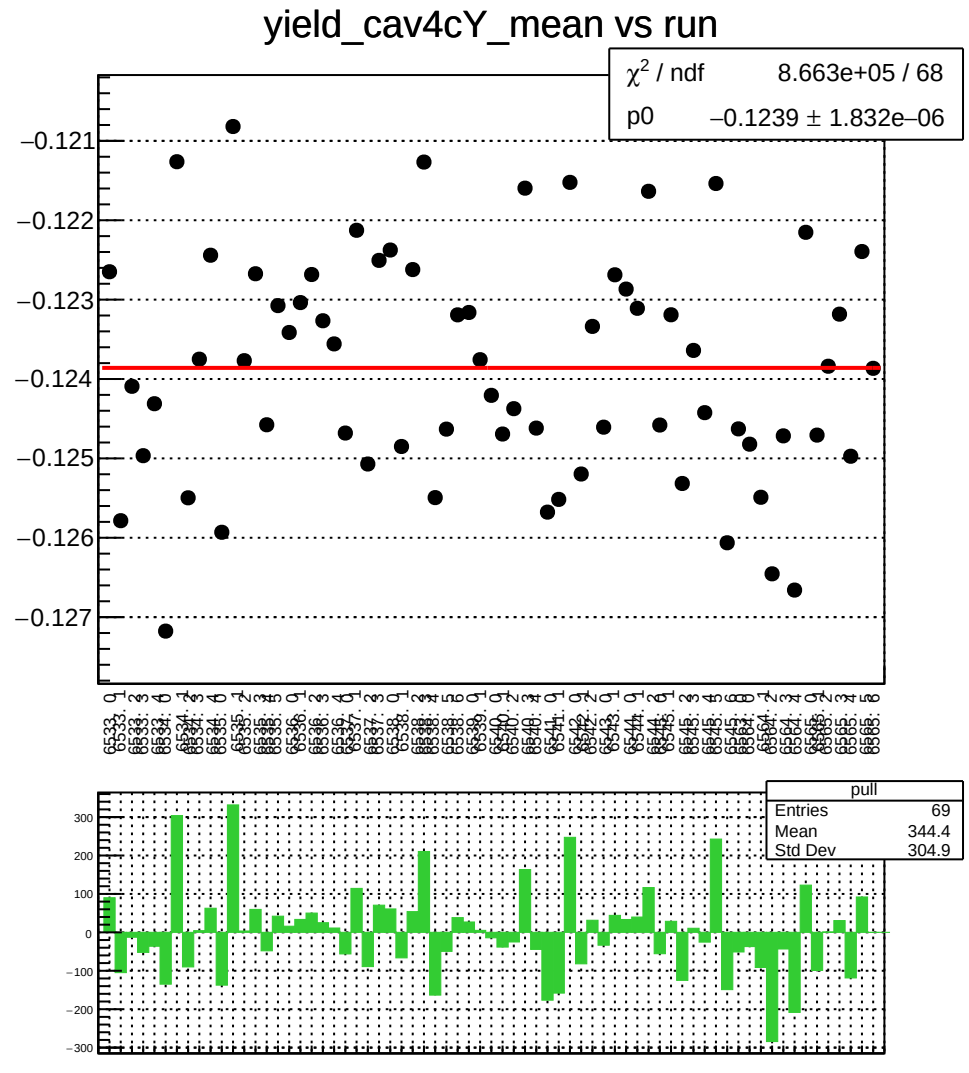

pull1D
Entries 69
Mean −1.157
Std Dev 5.003
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

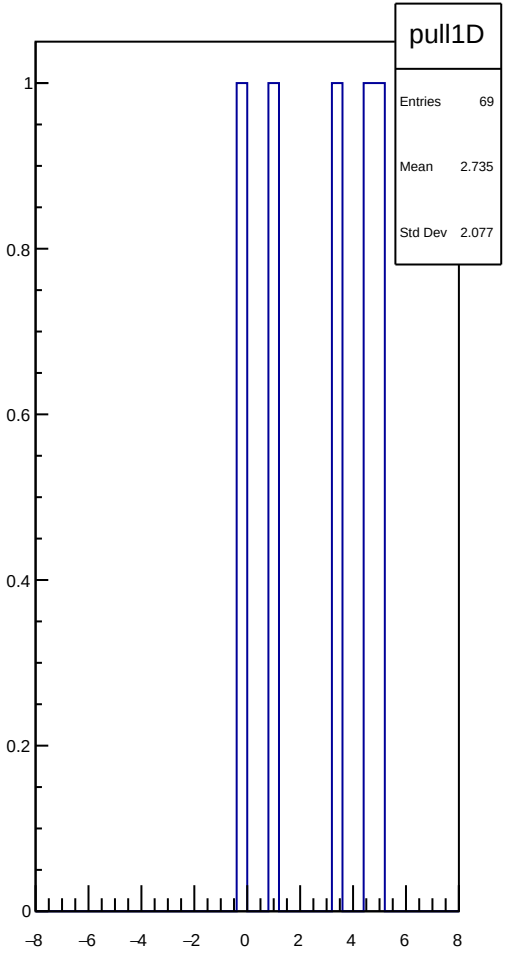

yield_cav4bY_rms vs run
χ² / ndf 2.388e+04 / 68
p0 0.008313 ± 7.186e−06
0.012
0.011
0.01
0.009
0.008
0.007

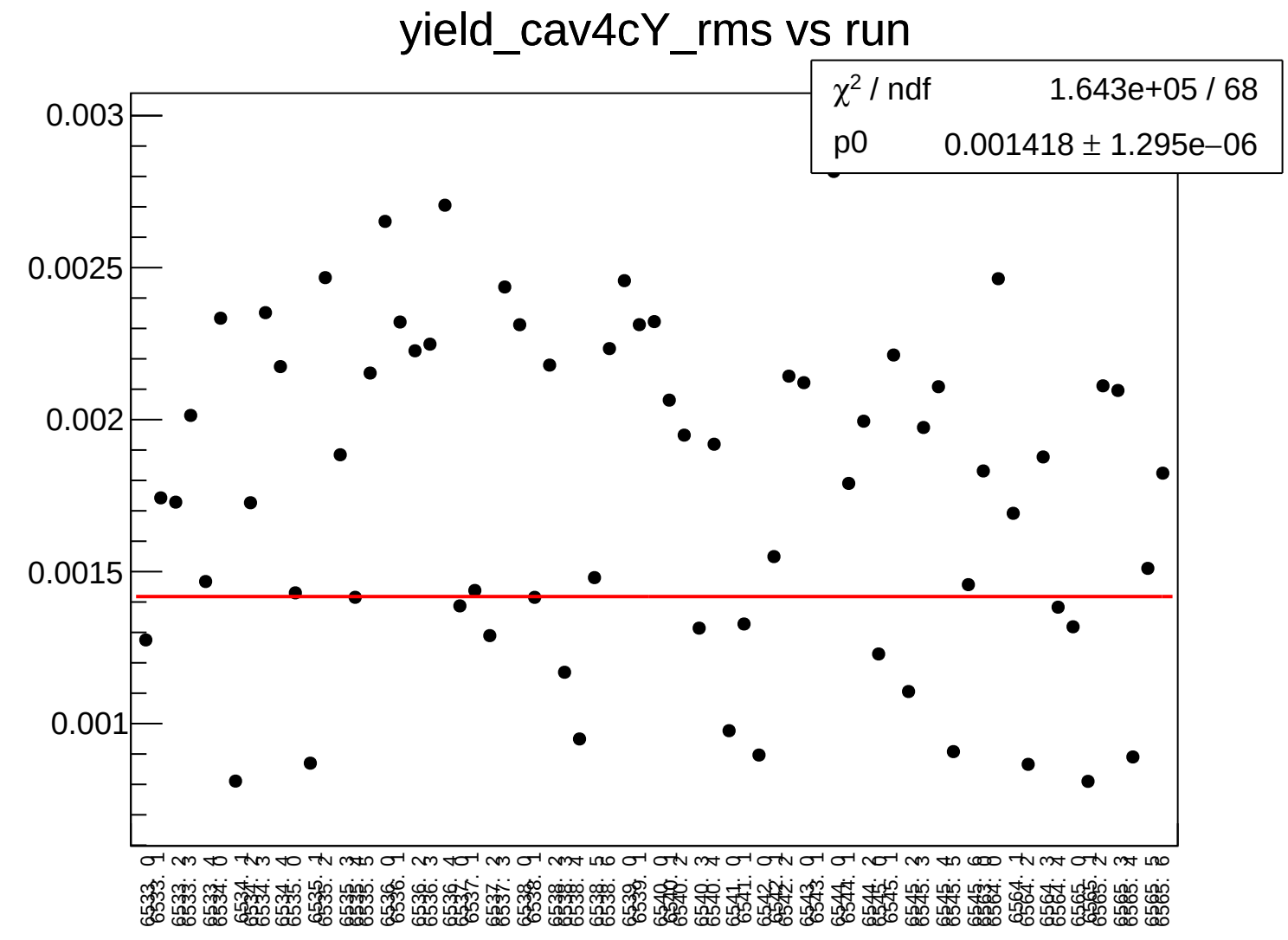

yield_cav4cX_mean vs run
χ² / ndf 1.076e+05 / 68
p0 −0.001969 ± 3.746e−06
0.002
0.001
0
−0.001
−0.002
−0.003
−0.004
pull
Entries 69
Mean −114.5
Std Dev 134.5
100
80
60
40
20
0
−20
−40
−60

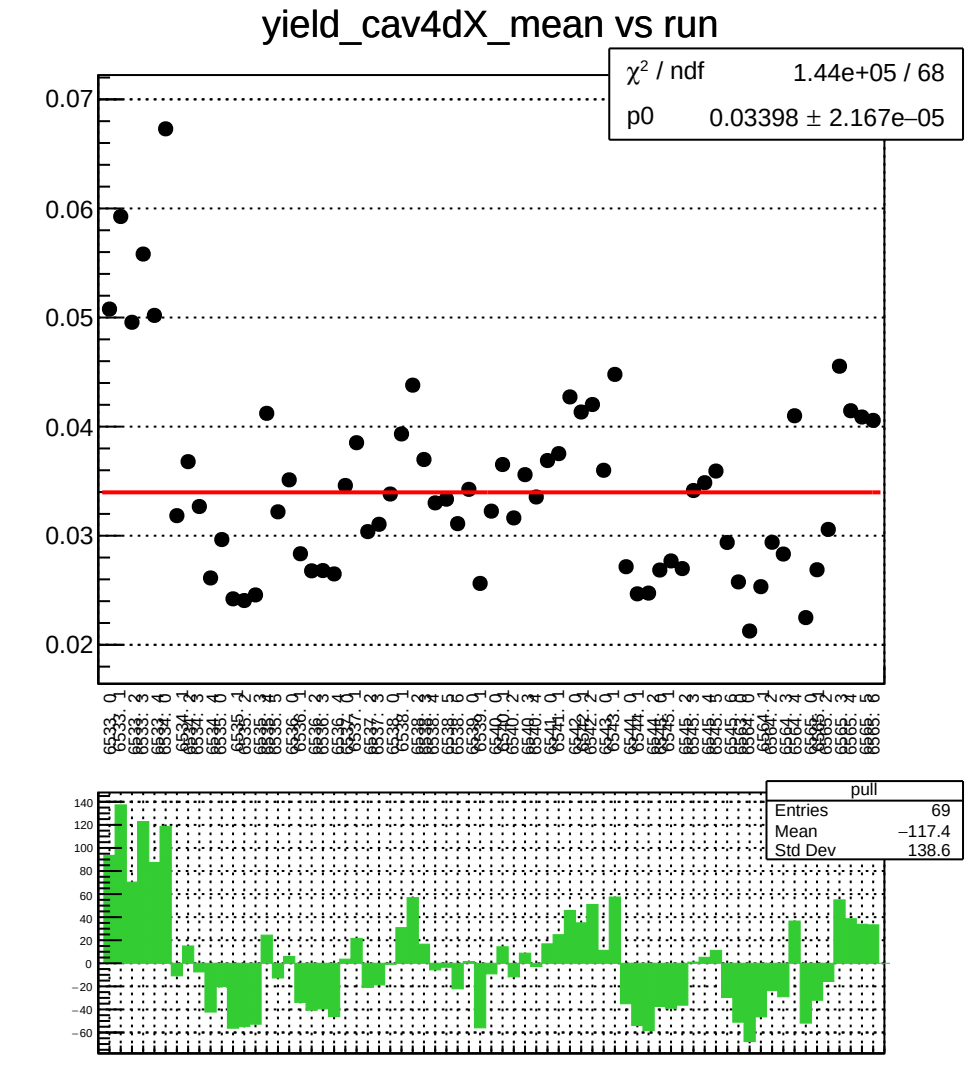

pull1D
Entries 69
Mean 0.663
Std Dev 4.4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

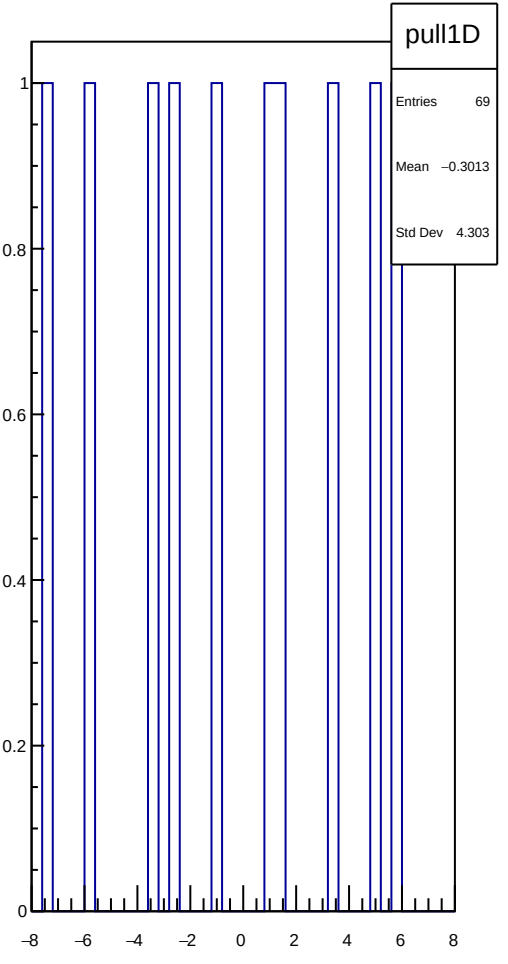

yield_cav4cX_rms vs run
χ² / ndf 1.087e+04 / 68
p0 0.00308 ± 2.649e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025

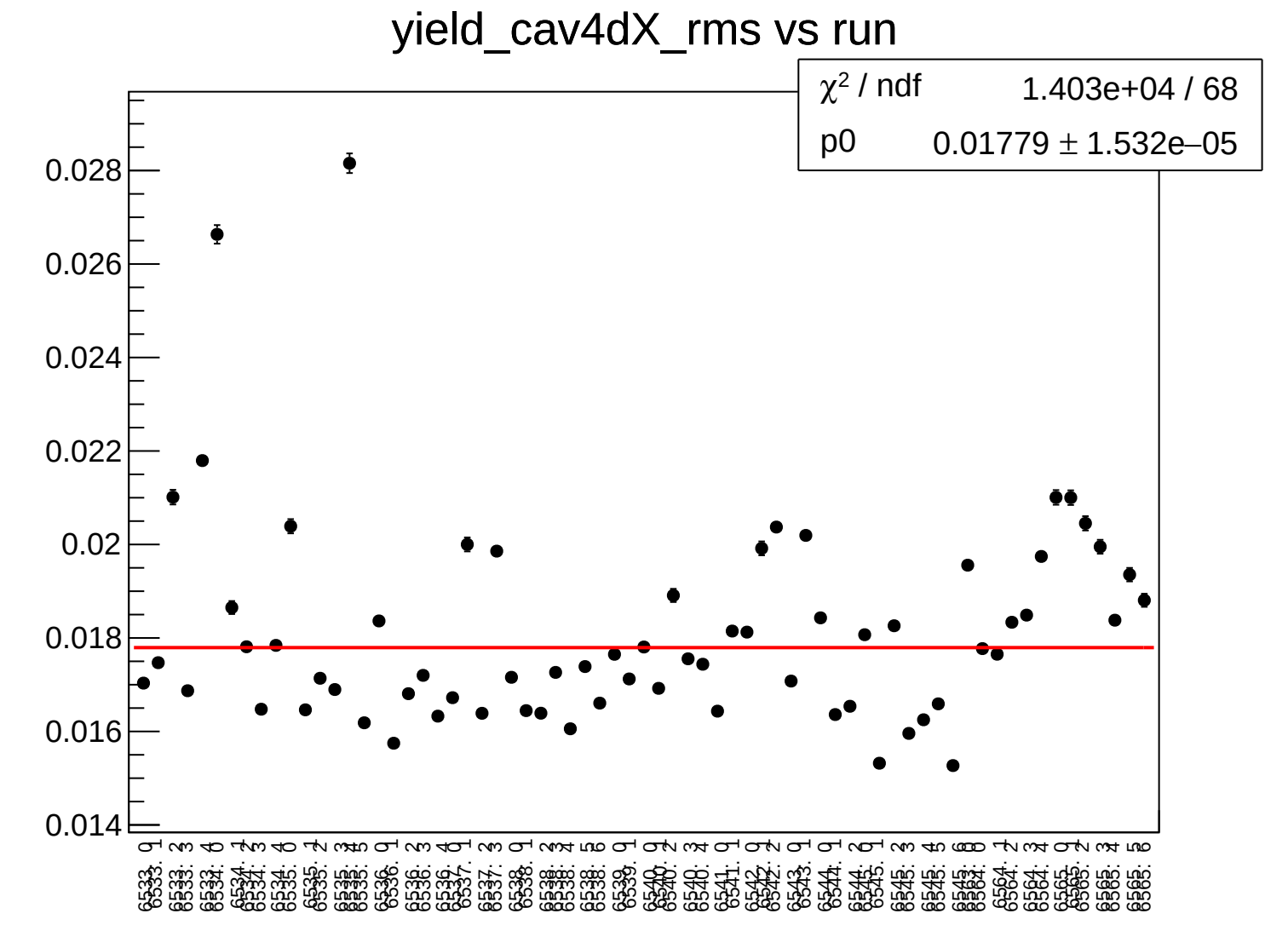

yield_cav4cY_mean vs run
χ² / ndf 8.663e+05 / 68
p0 −0.1239 ± 1.832e−06
−0.121
−0.122
−0.123
−0.124
−0.125
−0.126
−0.127
pull
Entries 69
Mean 344.4
Std Dev 304.9
300
200
100
0
−100
−200
−300

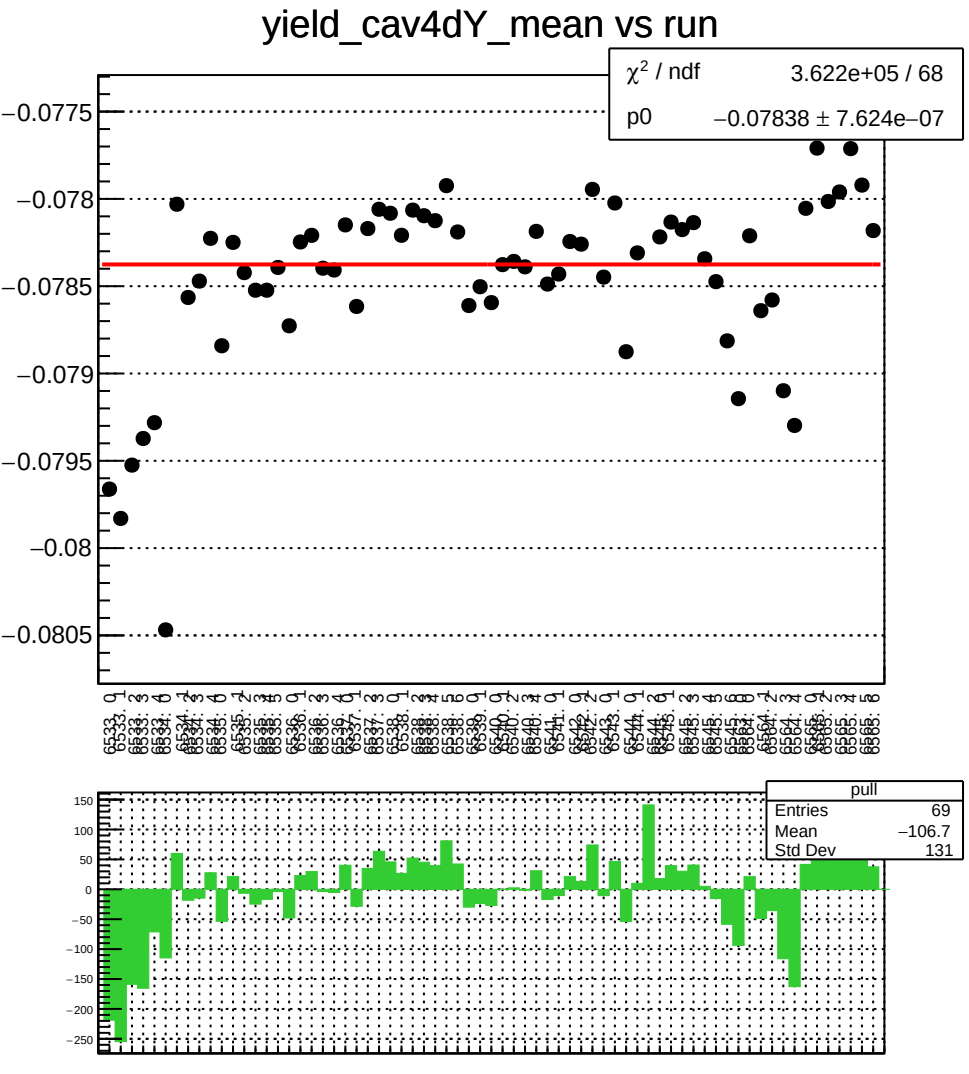

pull1D
Entries 69
Mean 2.735
Std Dev 2.077
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

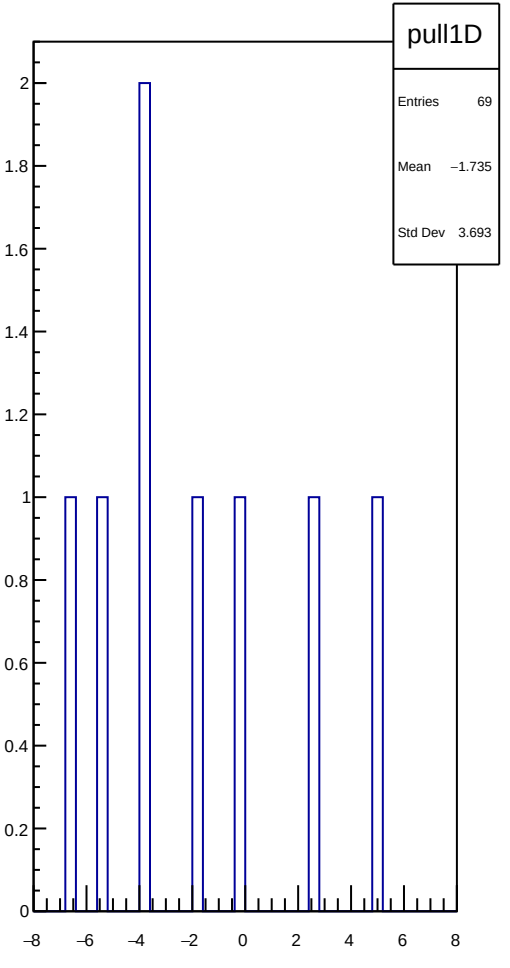

yield_cav4cY_rms vs run
χ² / ndf 1.643e+05 / 68
p0 0.001418 ± 1.295e−06
0.003
0.0025
0.002
0.0015
0.001

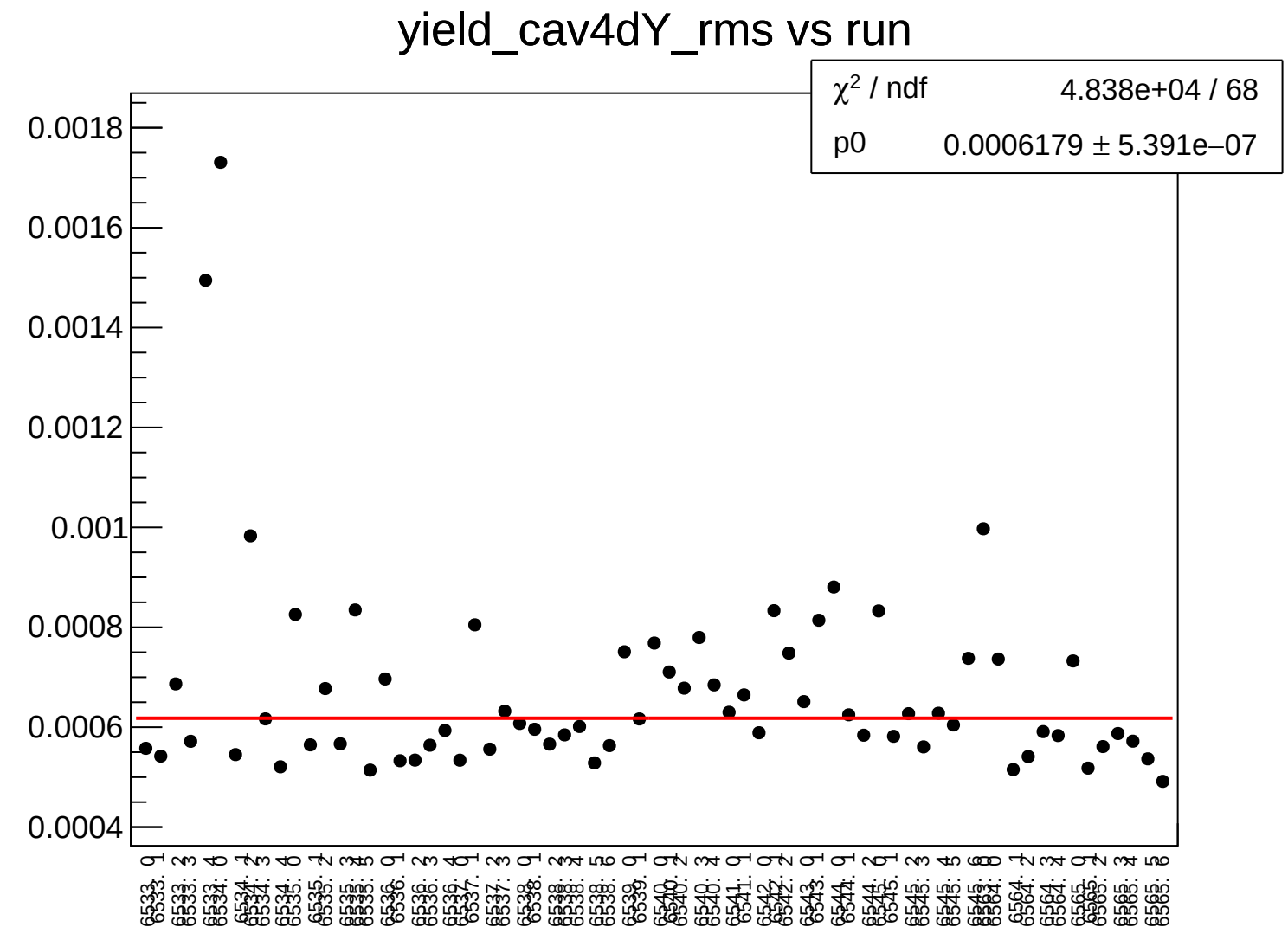

yield_cav4dX_mean vs run
χ² / ndf 1.44e+05 / 68
p0 0.03398 ± 2.167e−05
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 69
Mean −117.4
Std Dev 138.6
140
120
100
80
60
40
20
0
−20
−40
−60

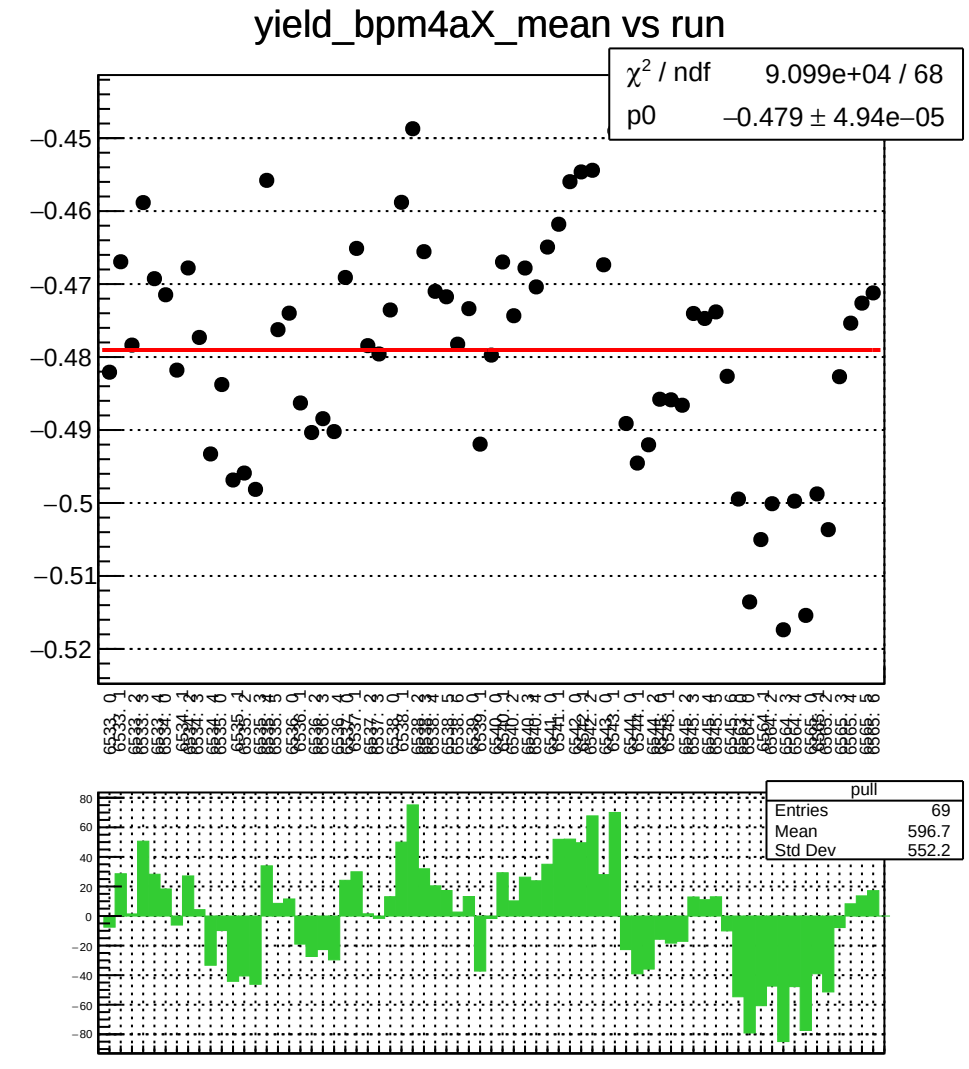

pull1D
Entries 69
Mean −0.3013
Std Dev 4.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

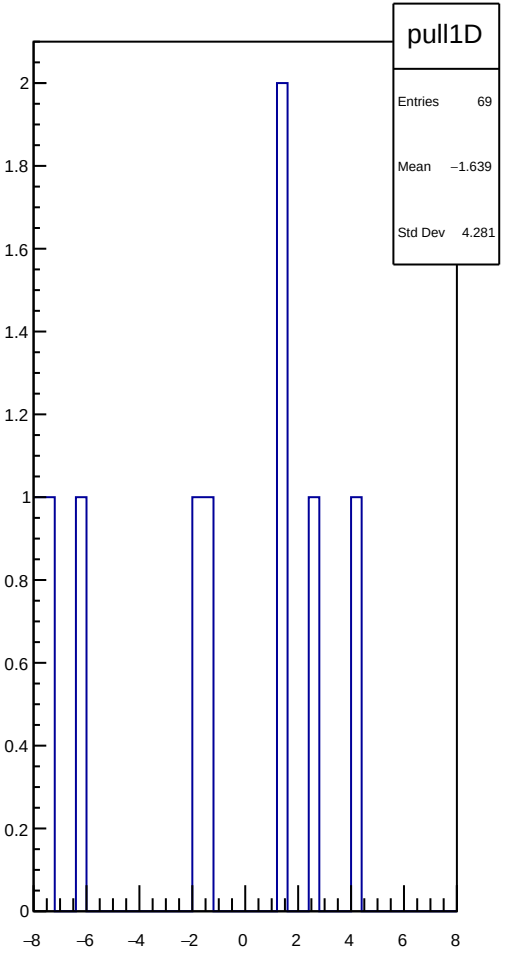

yield_cav4dX_rms vs run
χ² / ndf 1.403e+04 / 68
p0 0.01779 ± 1.532e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

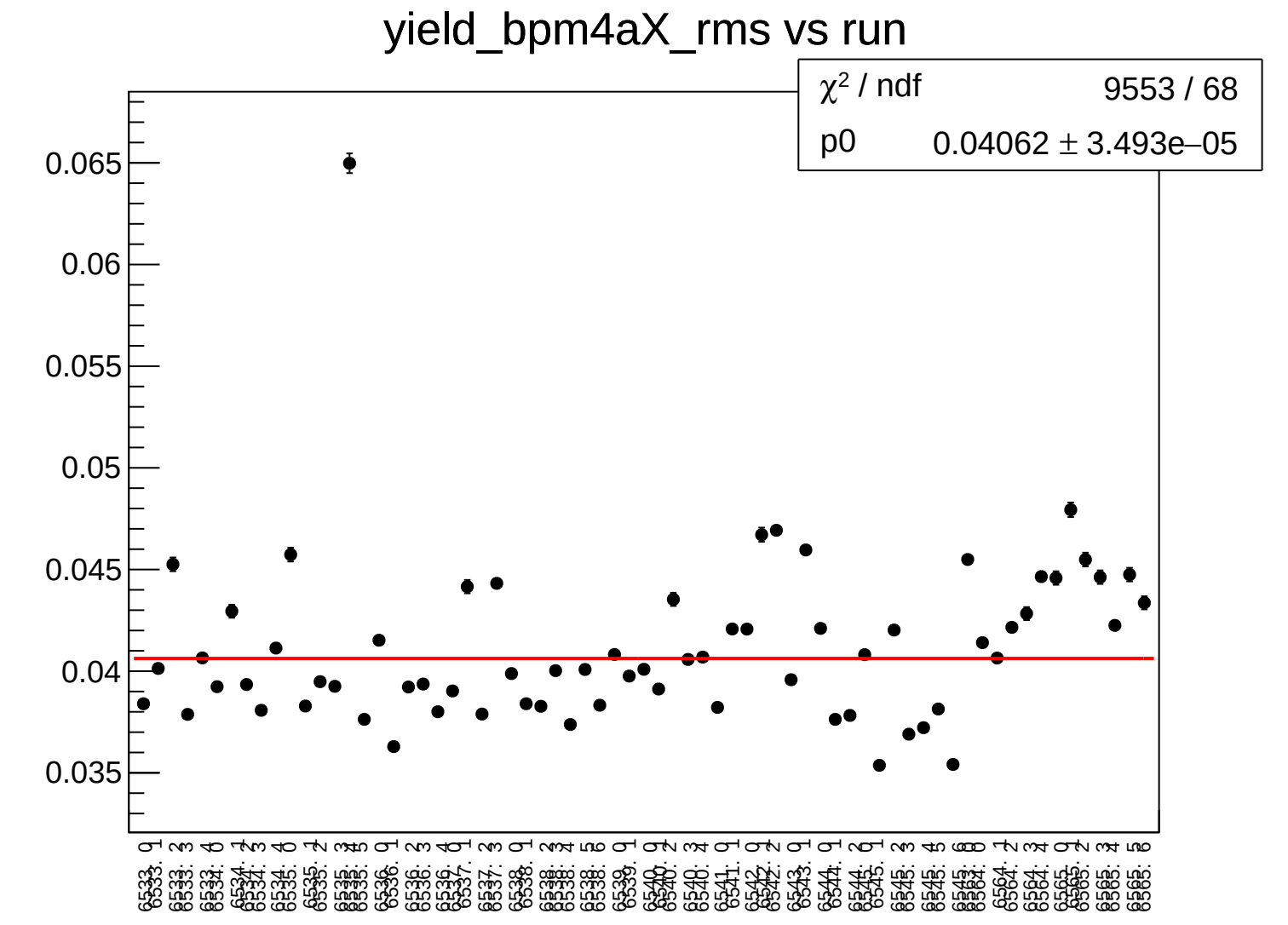

yield_cav4dY_mean vs run
χ² / ndf 3.622e+05 / 68
p0 −0.07838 ± 7.624e−07
−0.0775
−0.078
−0.0785
−0.079
−0.0795
−0.08
−0.0805
pull
Entries 69
Mean −106.7
Std Dev 131
150
100
50
0
−50
−100
−150
−200
−250

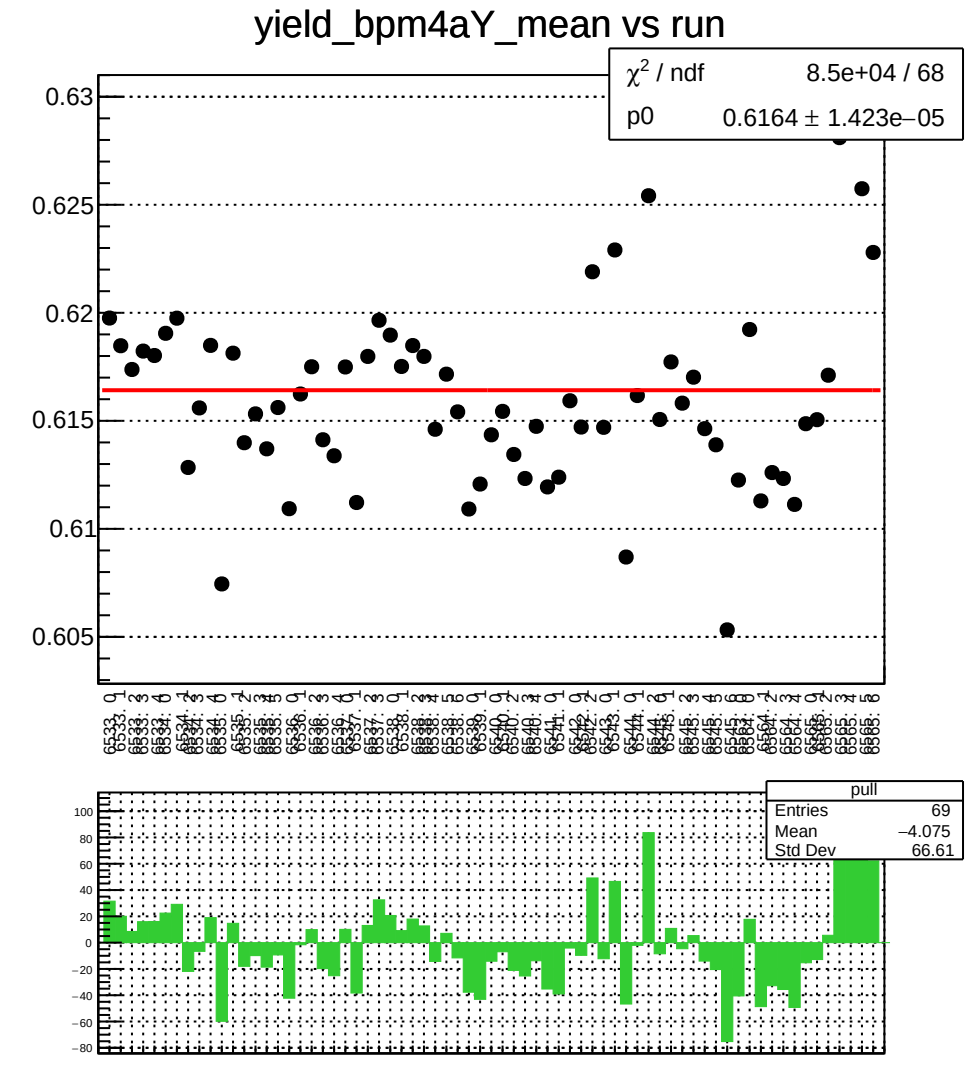

pull1D
Entries 69
Mean −1.735
Std Dev 3.693
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

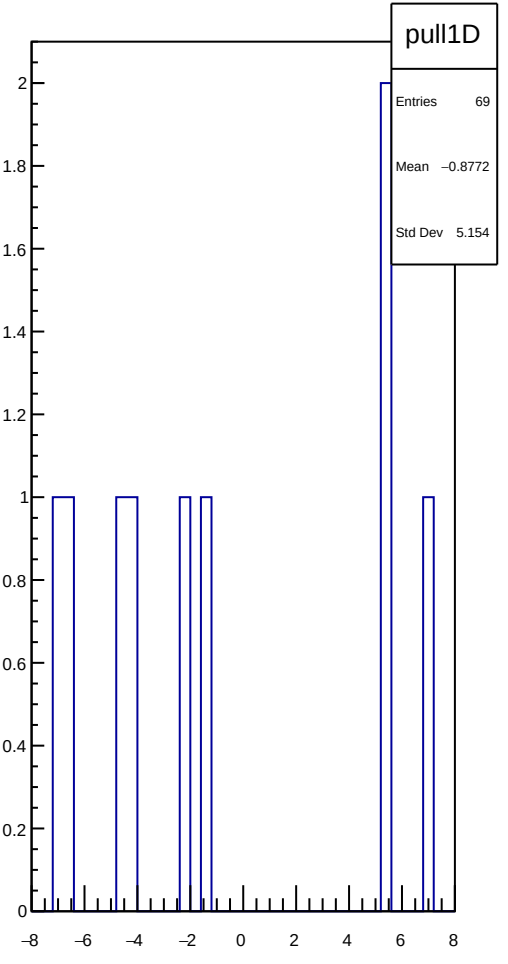

yield_cav4dY_rms vs run
χ² / ndf 4.838e+04 / 68
p0 0.0006179 ± 5.391e−07
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

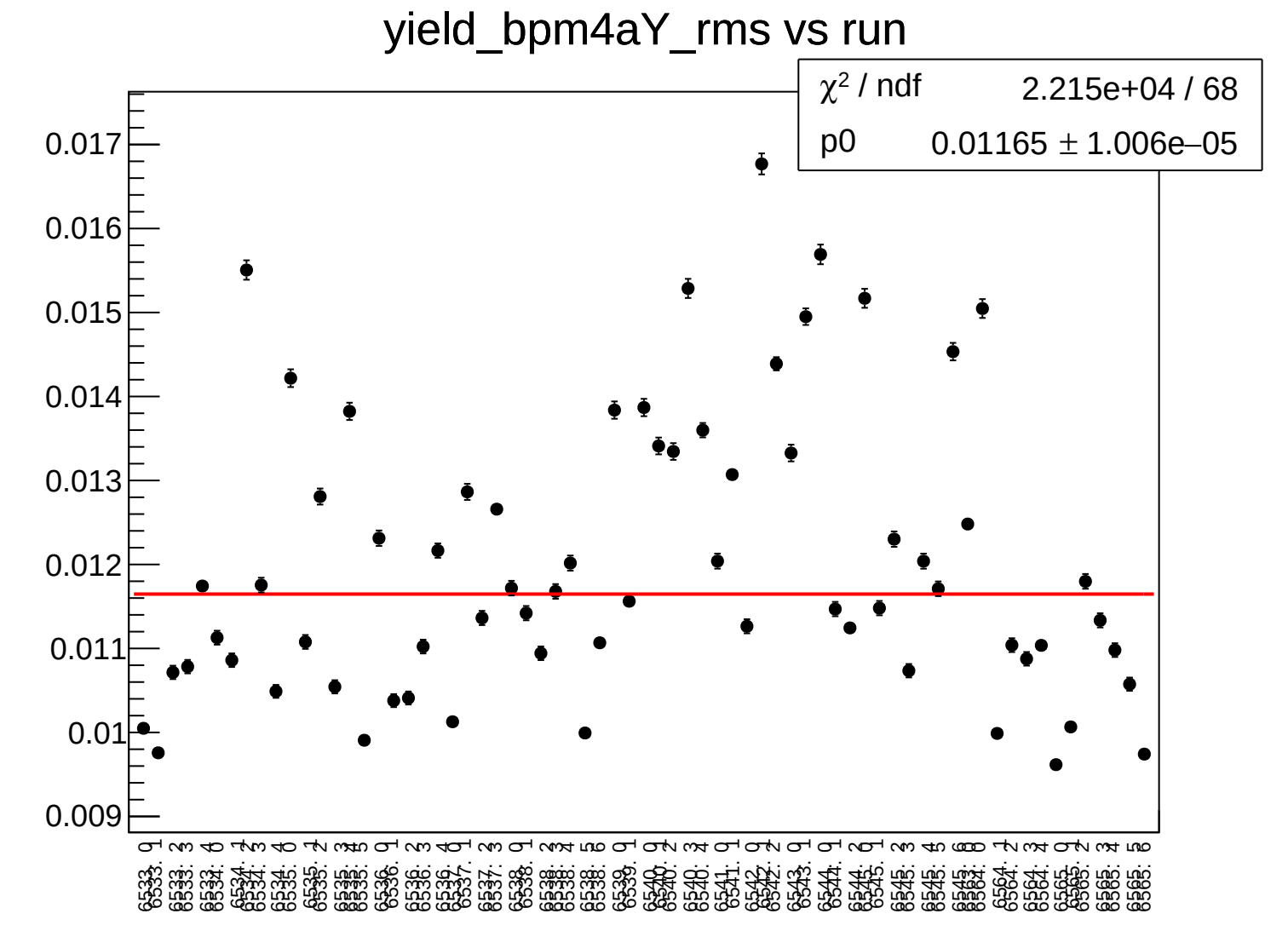

yield_bpm4aX_mean vs run
χ² / ndf 9.099e+04 / 68
p0 –0.479 ± 4.94e–05
–0.45
–0.46
–0.47
–0.48
–0.49
–0.5
–0.51
–0.52
pull
Entries 69
Mean 596.7
Std Dev 552.2
80
60
40
20
0
–20
–40
–60
–80

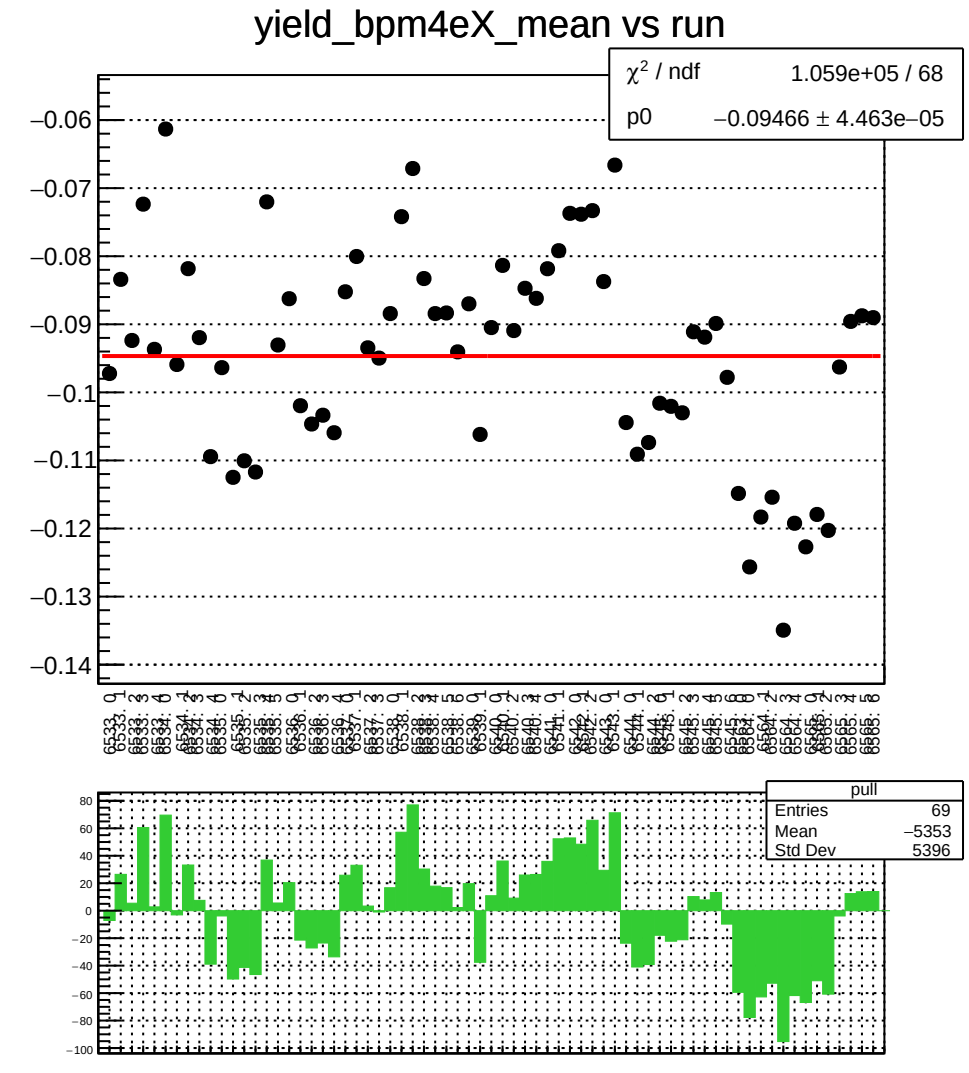

pull1D
Entries 69
Mean –1.639
Std Dev 4.281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

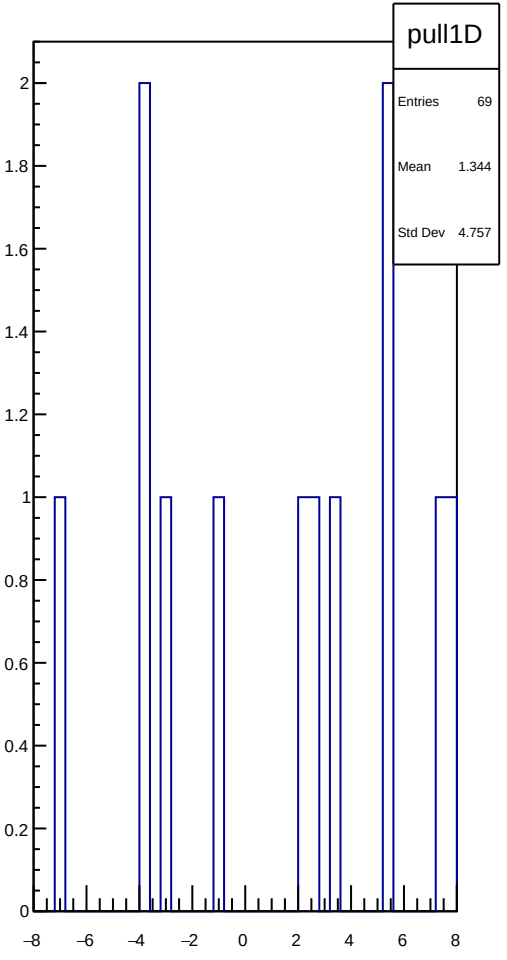

yield_bpm4aX_rms vs run
χ² / ndf 9553 / 68
p0 0.04062 ± 3.493e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

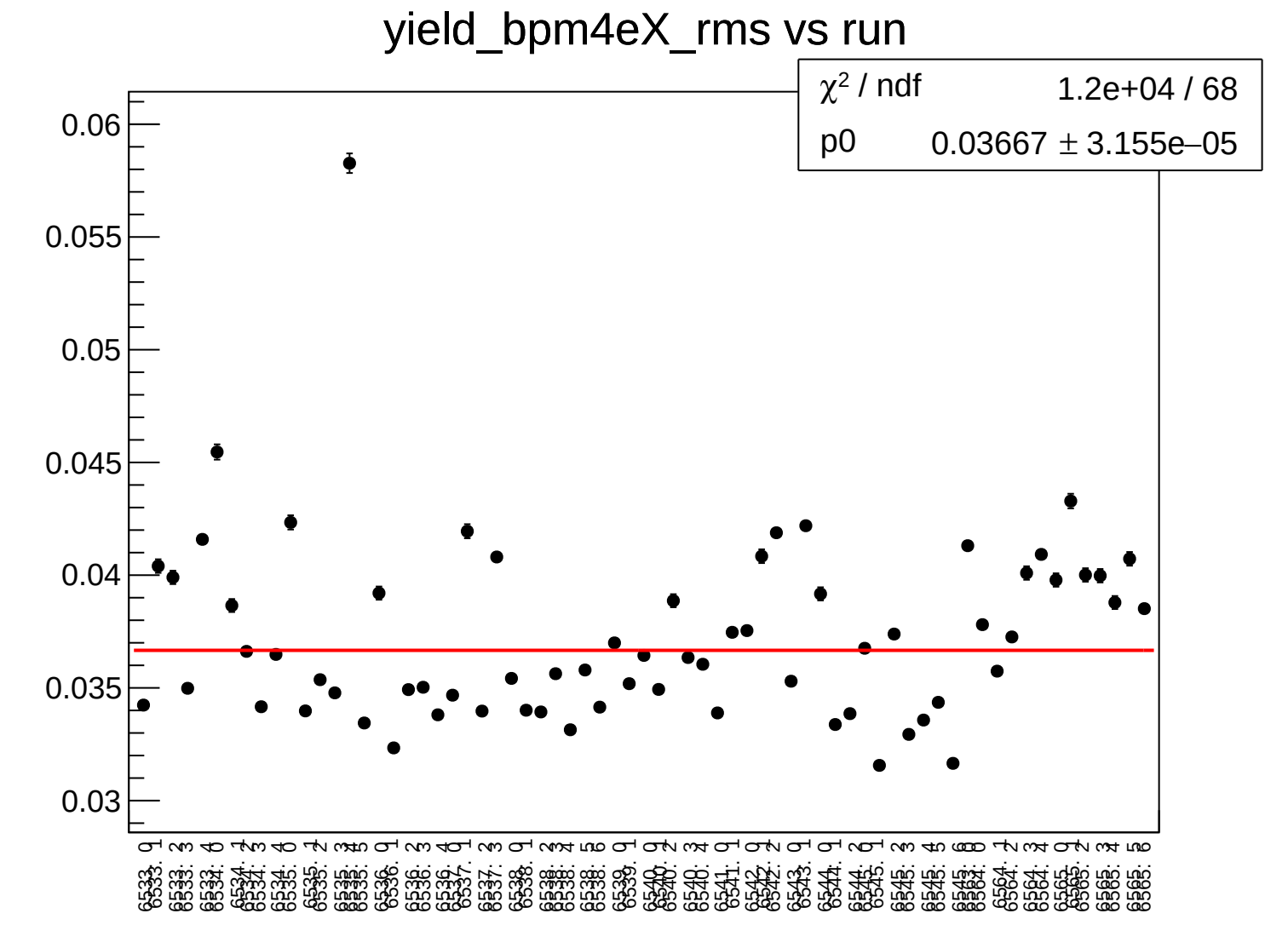

yield_bpm4aY_mean vs run
χ² / ndf 8.5e+04 / 68
p0 0.6164 ± 1.423e−05
0.63
0.625
0.62
0.615
0.61
0.605
pull
Entries 69
Mean −4.075
Std Dev 66.61
100
80
60
40
20
0
−20
−40
−60
−80

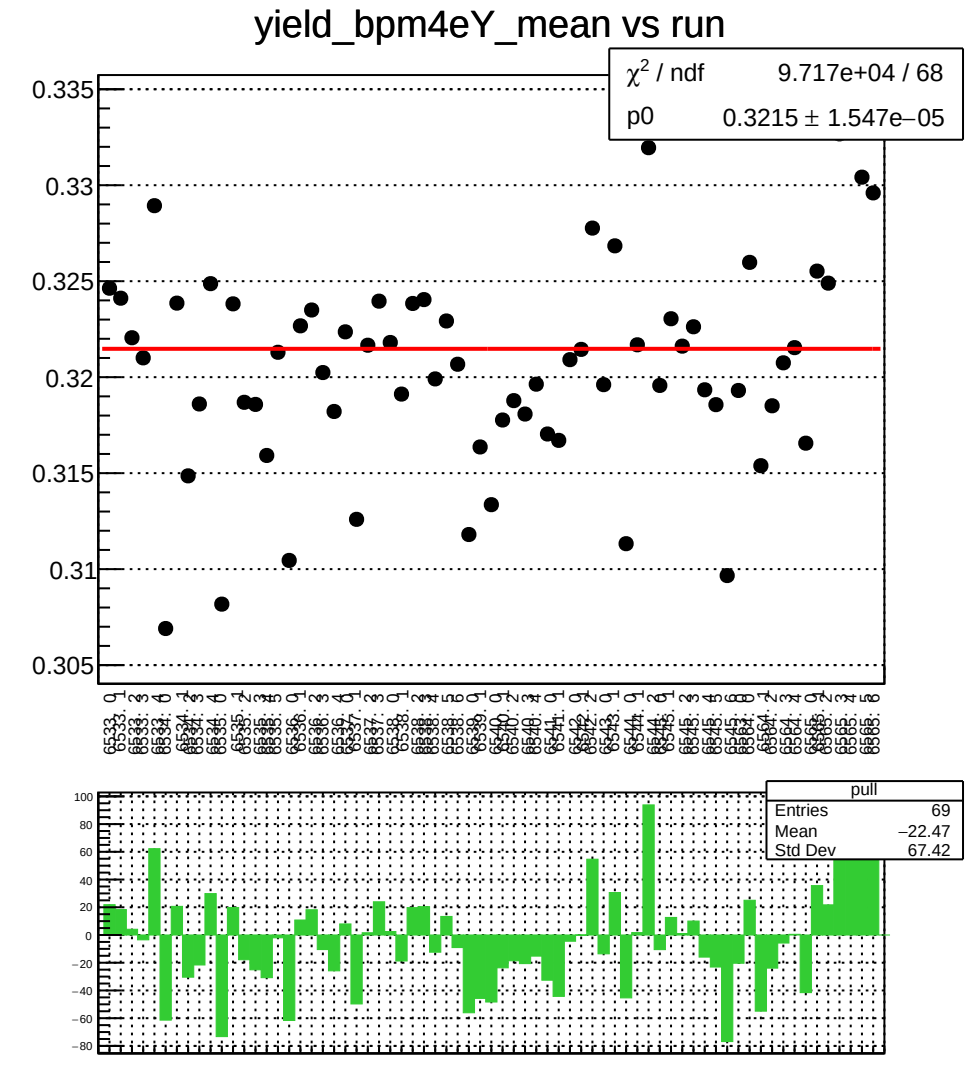

pull1D
Entries 69
Mean −0.8772
Std Dev 5.154
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

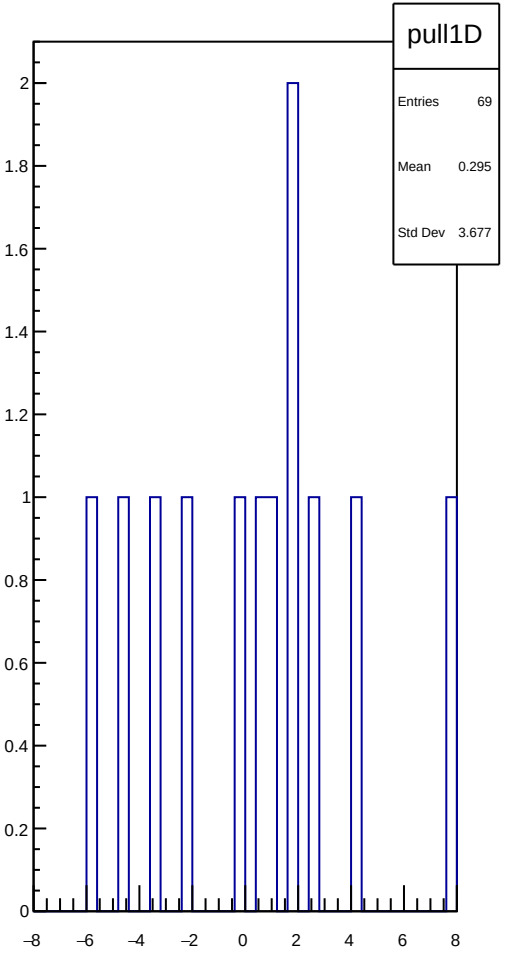

yield_bpm4aY_rms vs run
χ² / ndf 2.215e+04 / 68
p0 0.01165 ± 1.006e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

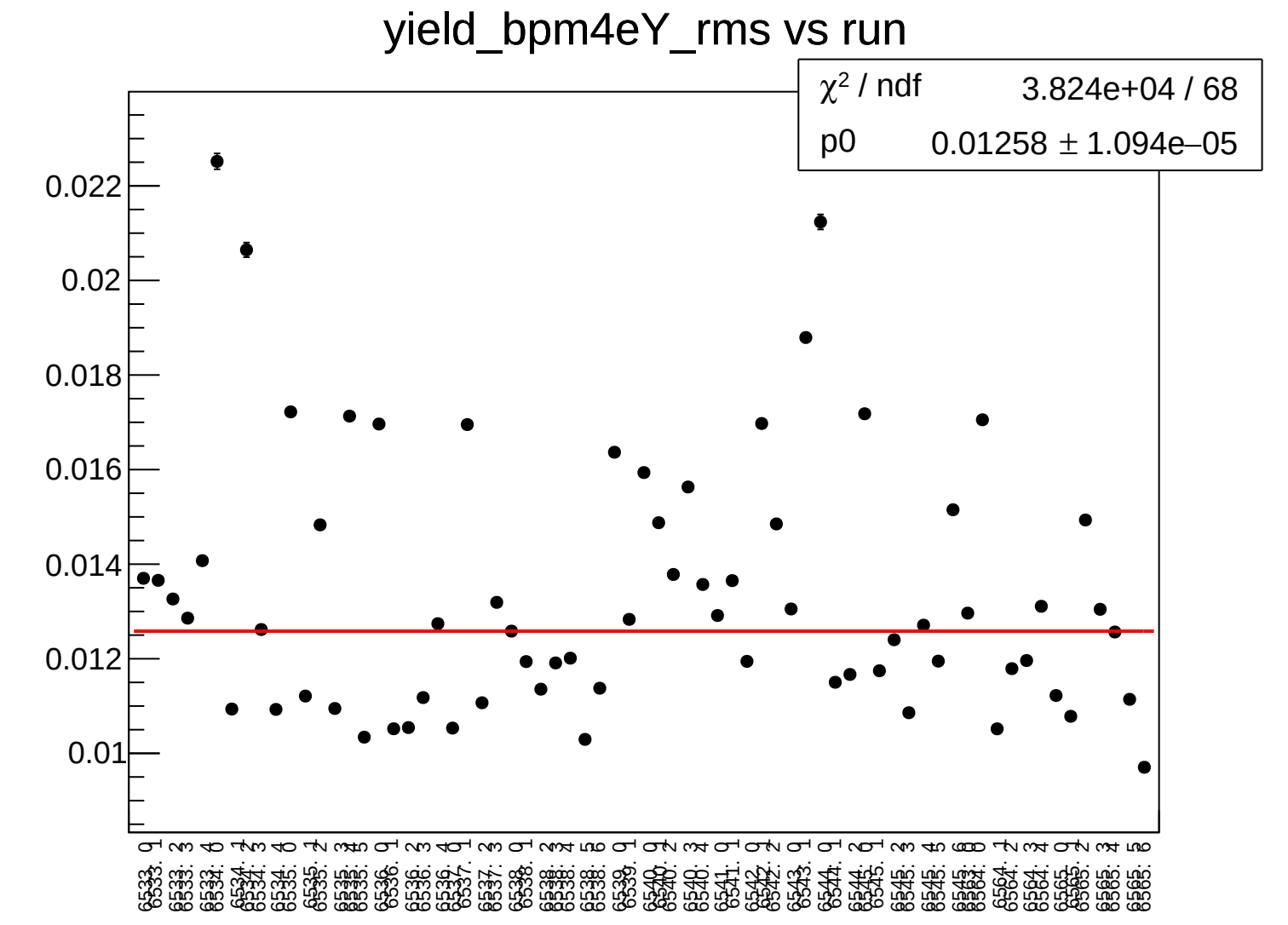

yield_bpm4eX_mean vs run
χ² / ndf 1.059e+05 / 68
p0 −0.09466 ± 4.463e−05
pull
Entries 69
Mean −5353
Std Dev 5396

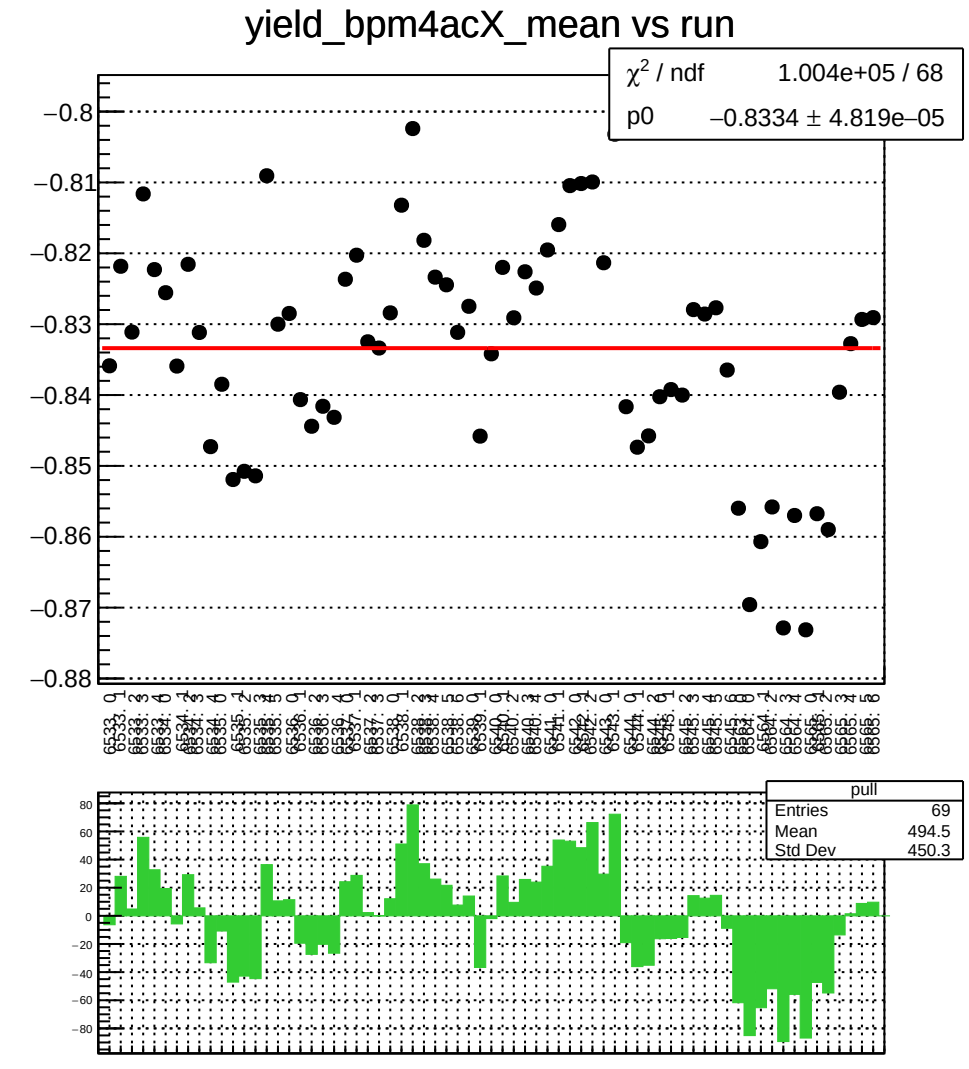

pull1D
Entries 69
Mean 1.344
Std Dev 4.757

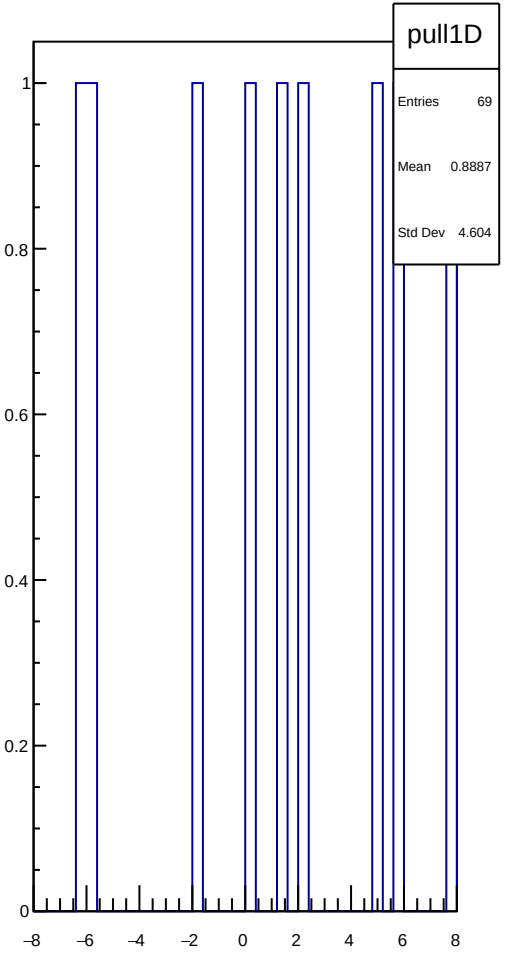

yield_bpm4eX_rms vs run
χ² / ndf 1.2e+04 / 68
p0 0.03667 ± 3.155e−05
0.06
0.055
0.05
0.045
0.04
0.035
0.03

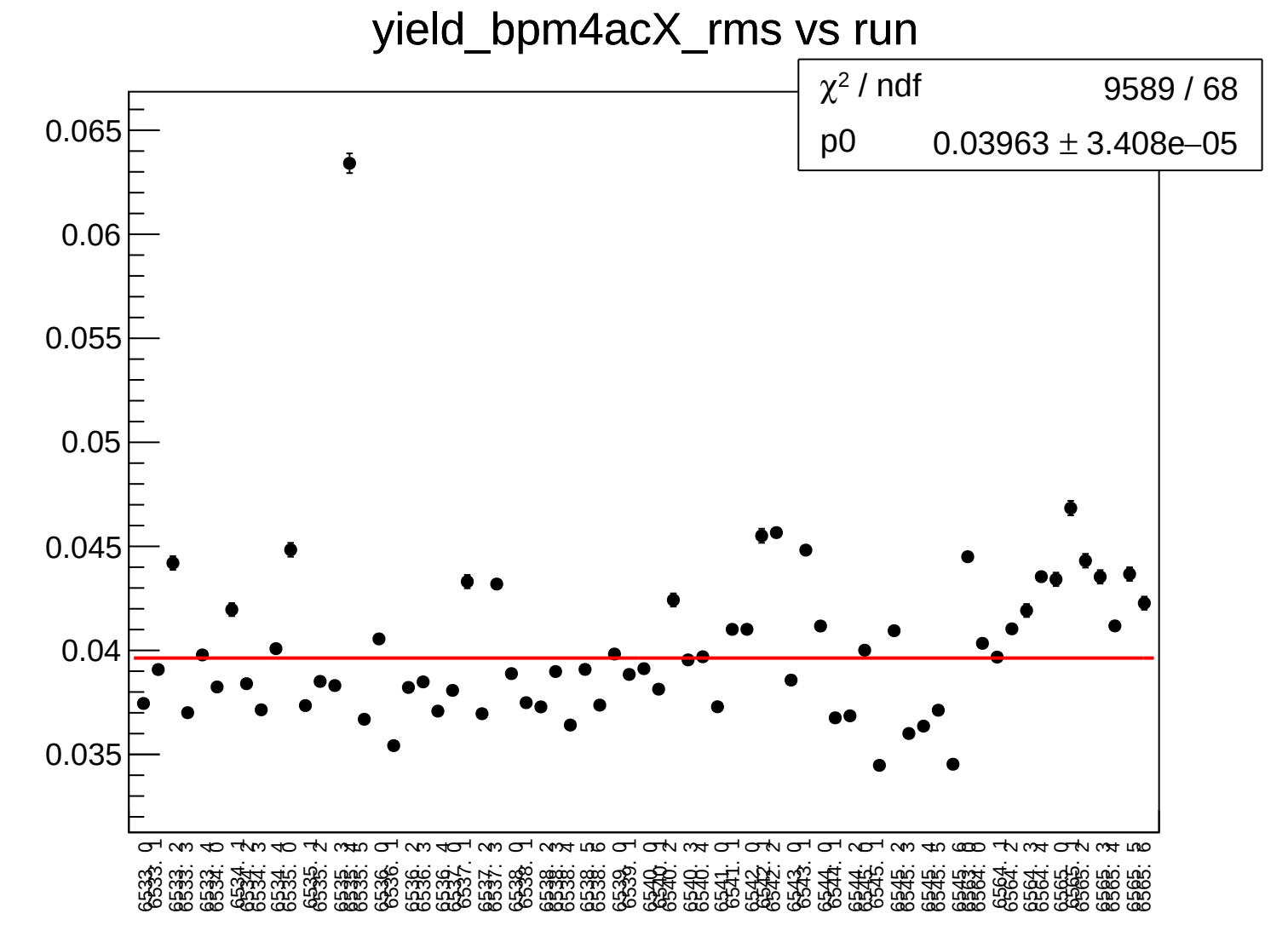

yield_bpm4eY_mean vs run
χ² / ndf 9.717e+04 / 68
p0 0.3215 ± 1.547e−05
0.335
0.33
0.325
0.32
0.315
0.31
0.305
pull
Entries 69
Mean −22.47
Std Dev 67.42
100
80
60
40
20
0
−20
−40
−60
−80

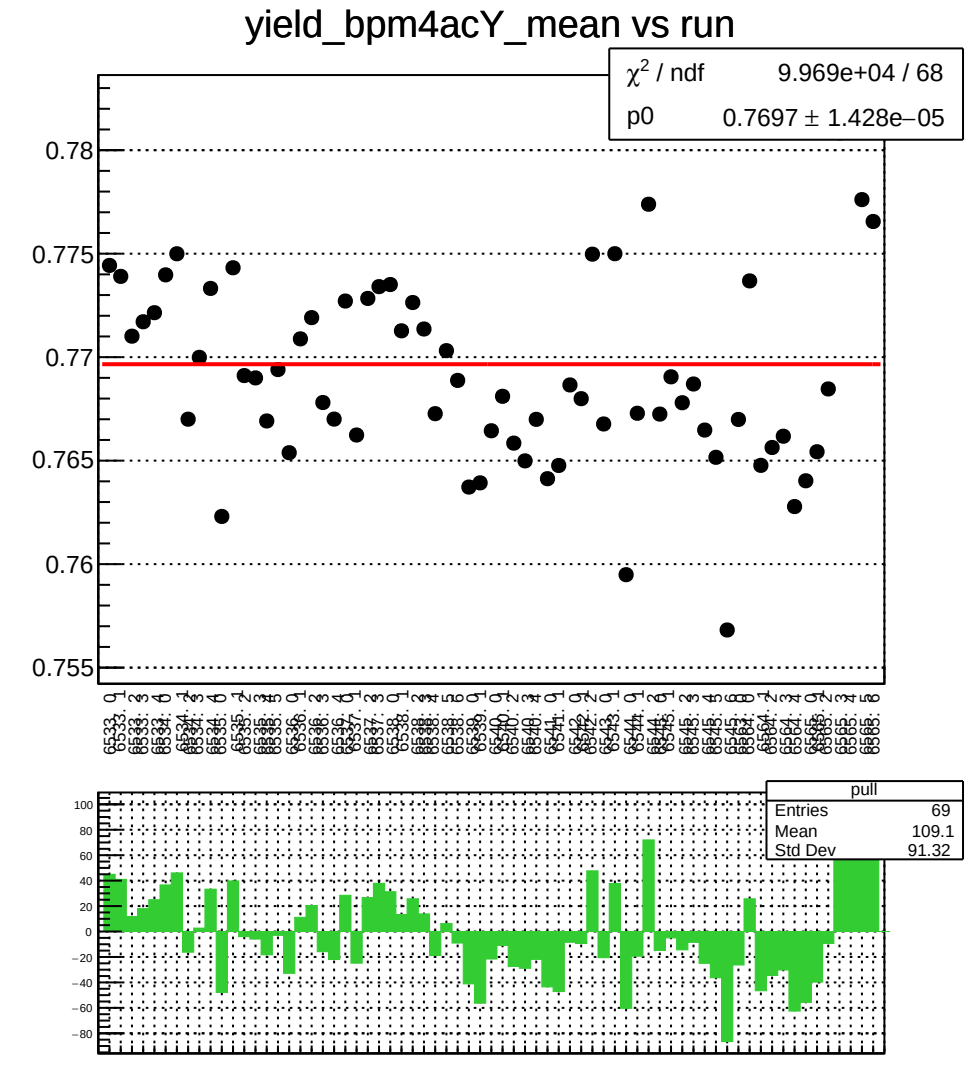

pull1D
Entries 69
Mean 0.295
Std Dev 3.677
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

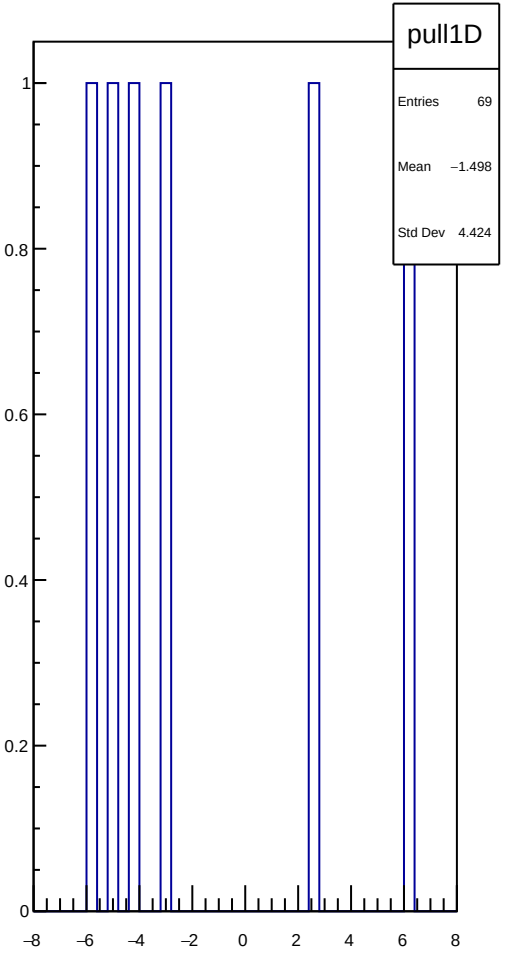

yield_bpm4eY_rms vs run
χ² / ndf 3.824e+04 / 68
p0 0.01258 ± 1.094e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

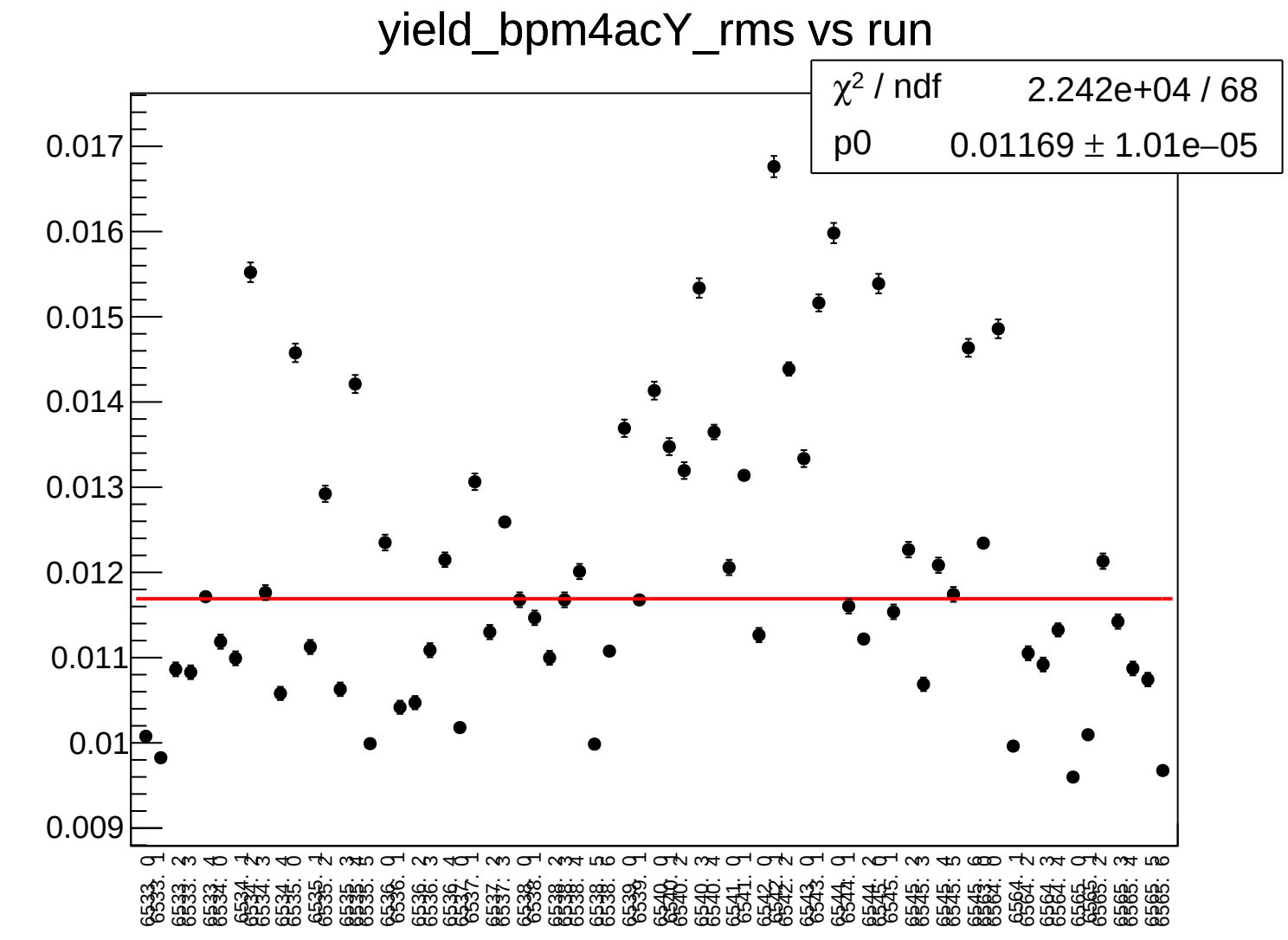

yield_bpm4acX_mean vs run
χ² / ndf 1.004e+05 / 68
p0 −0.8334 ± 4.819e−05
pull
Entries 69
Mean 494.5
Std Dev 450.3

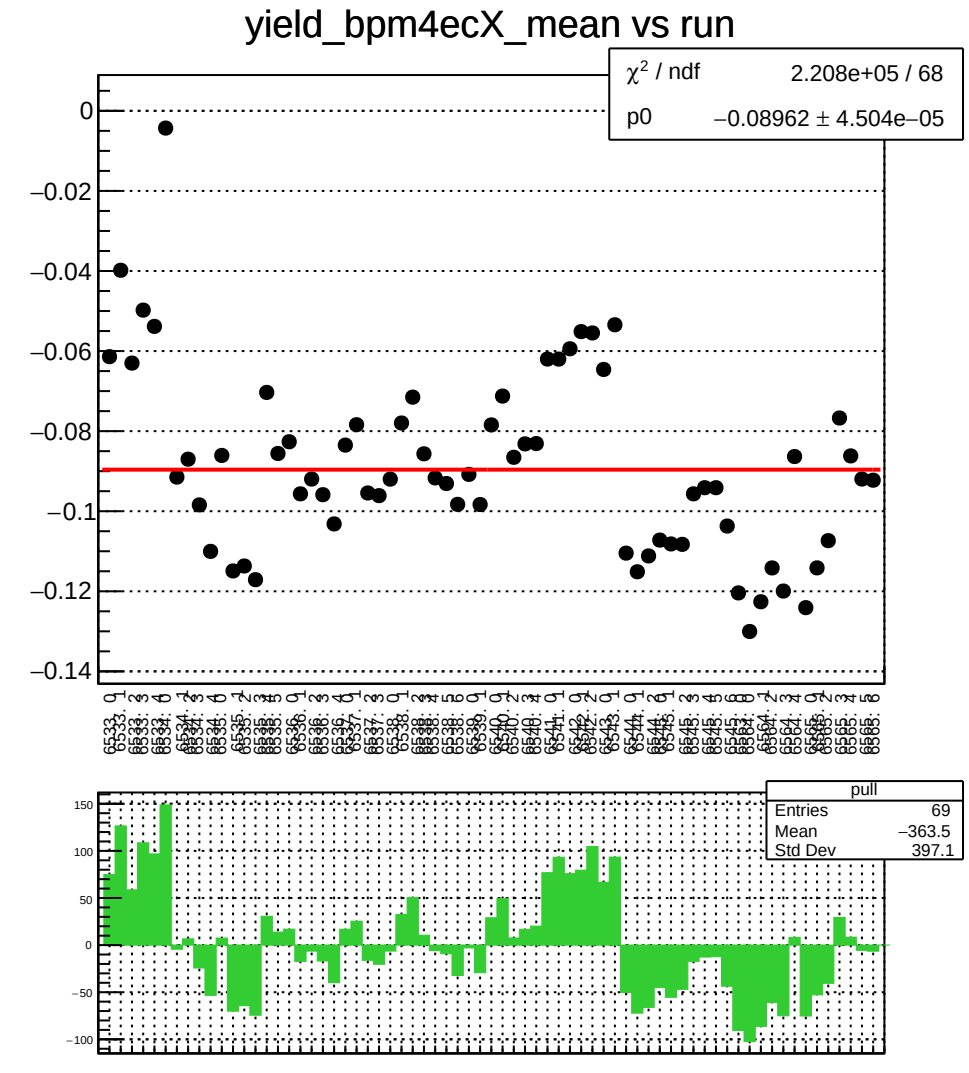

pull1D
Entries 69
Mean 0.8887
Std Dev 4.604

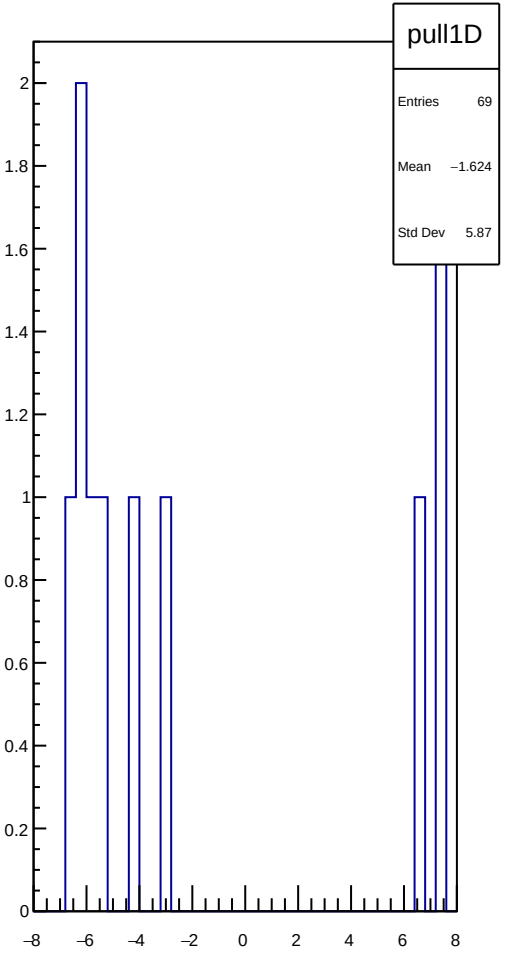

yield_bpm4acX_rms vs run
χ² / ndf 9589 / 68
p0 0.03963 ± 3.408e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

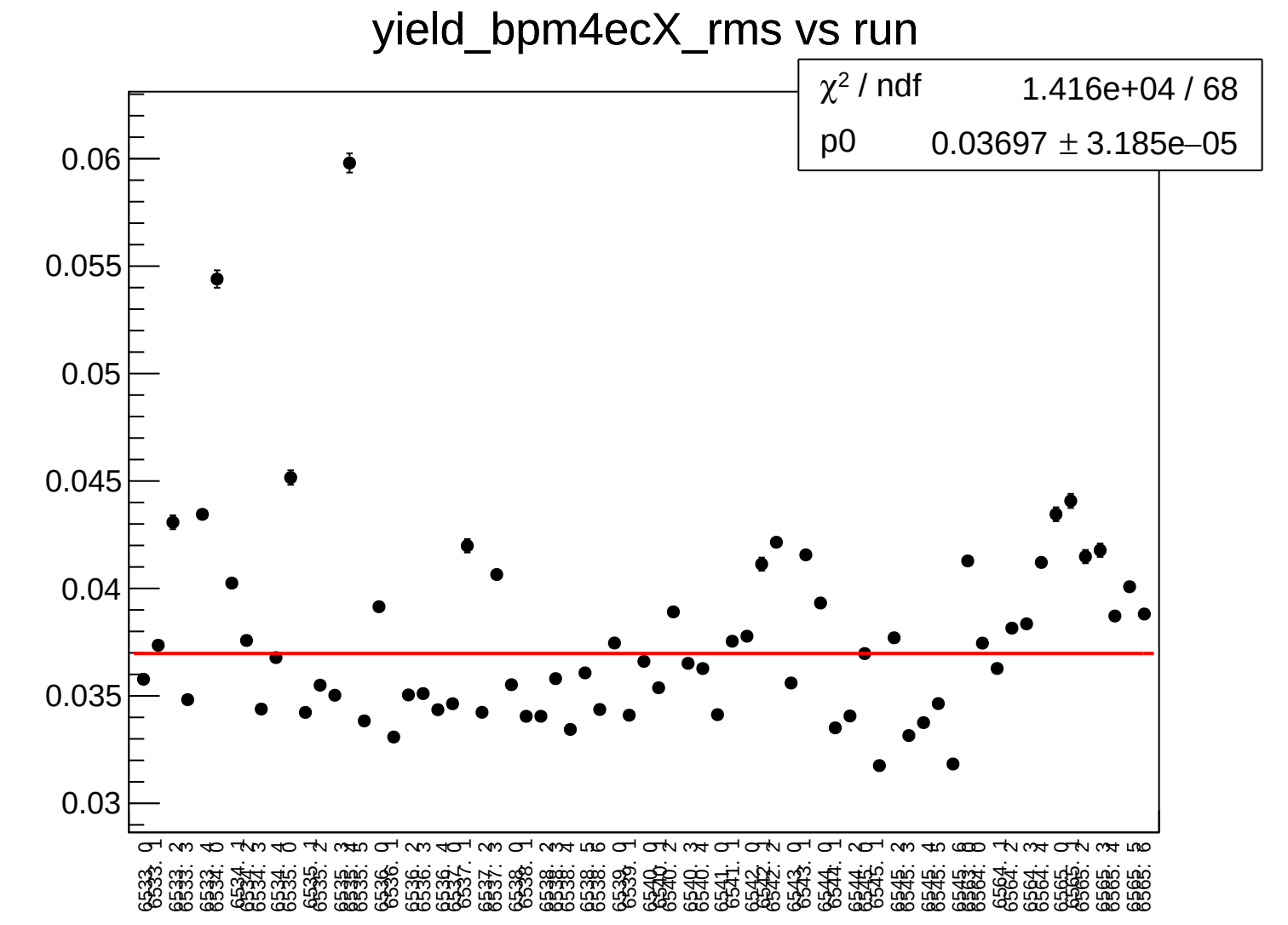

yield_bpm4acY_mean vs run
χ² / ndf 9.969e+04 / 68
p0 0.7697 ± 1.428e−05
0.78
0.775
0.77
0.765
0.76
0.755
pull
Entries 69
Mean 109.1
Std Dev 91.32
100
80
60
40
20
0
−20
−40
−60
−80

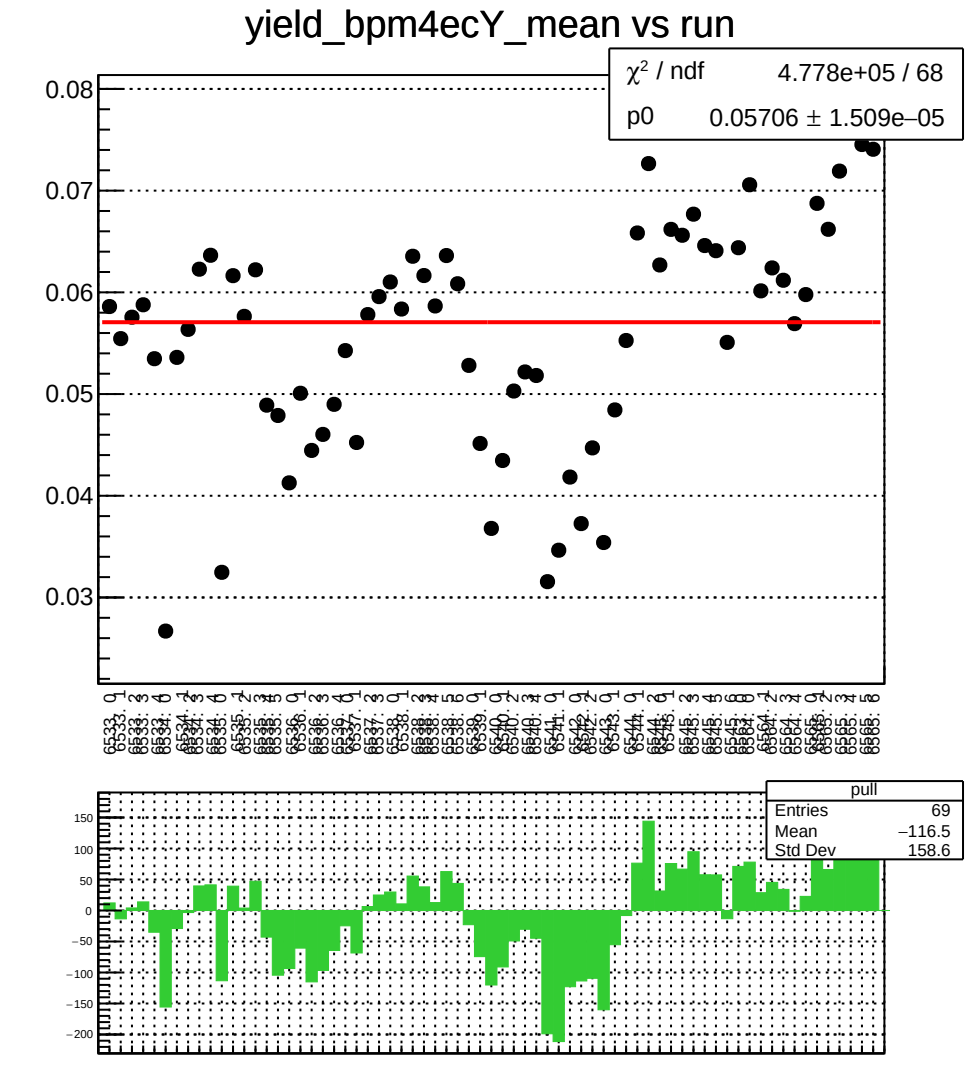

pull1D
Entries 69
Mean −1.498
Std Dev 4.424
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

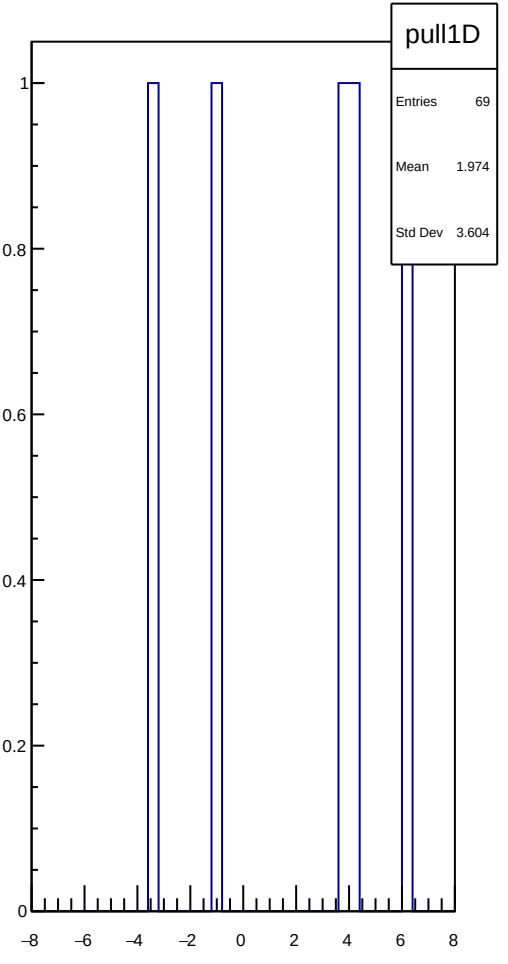

yield_bpm4acY_rms vs run
χ² / ndf 2.242e+04 / 68
p0 0.01169 ± 1.01e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

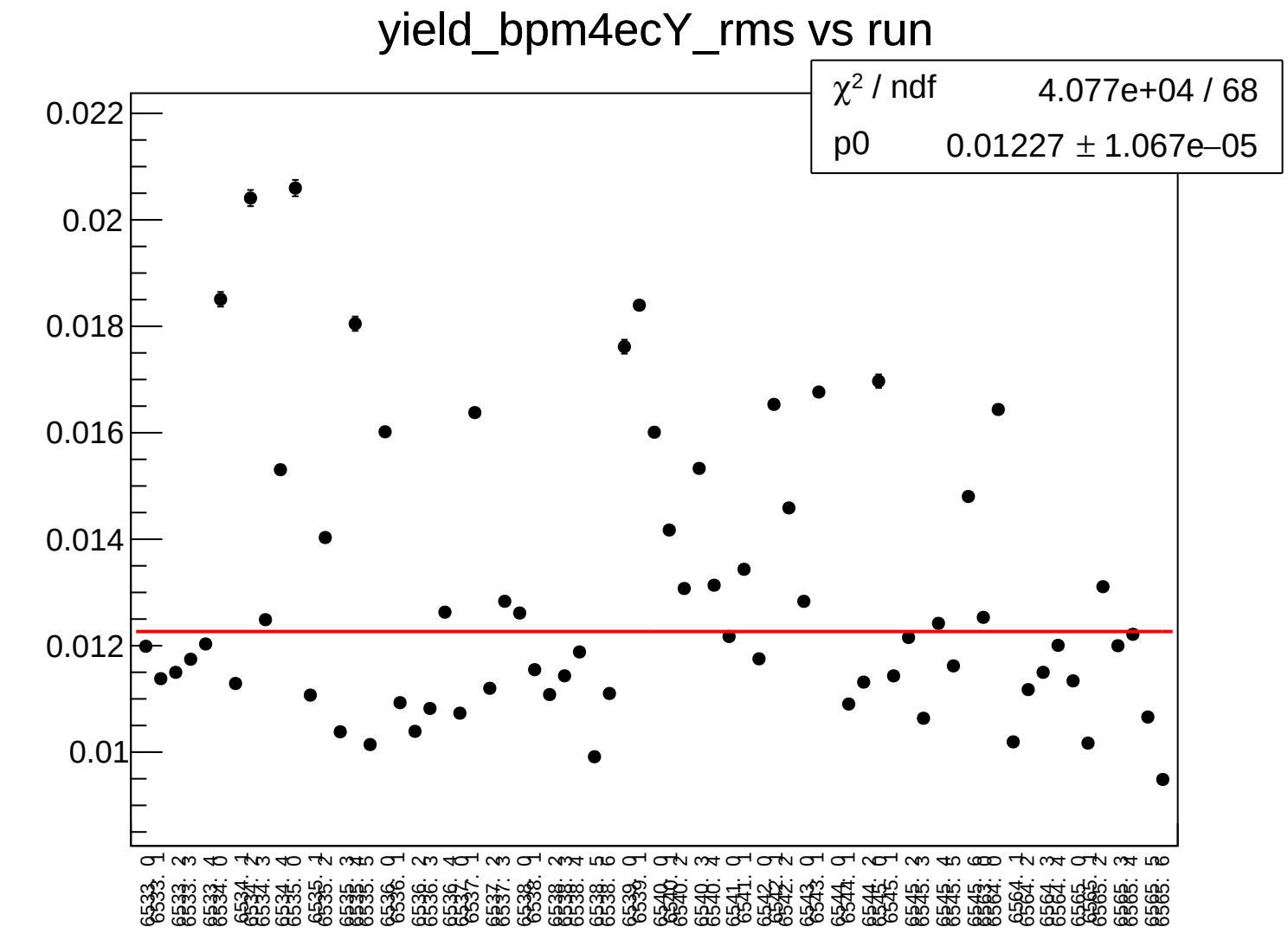

yield_bpm4ecX_mean vs run
χ² / ndf 2.208e+05 / 68
p0 −0.08962 ± 4.504e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
−0.14
pull
Entries 69
Mean −363.5
Std Dev 397.1
150
100
50
0
−50
−100

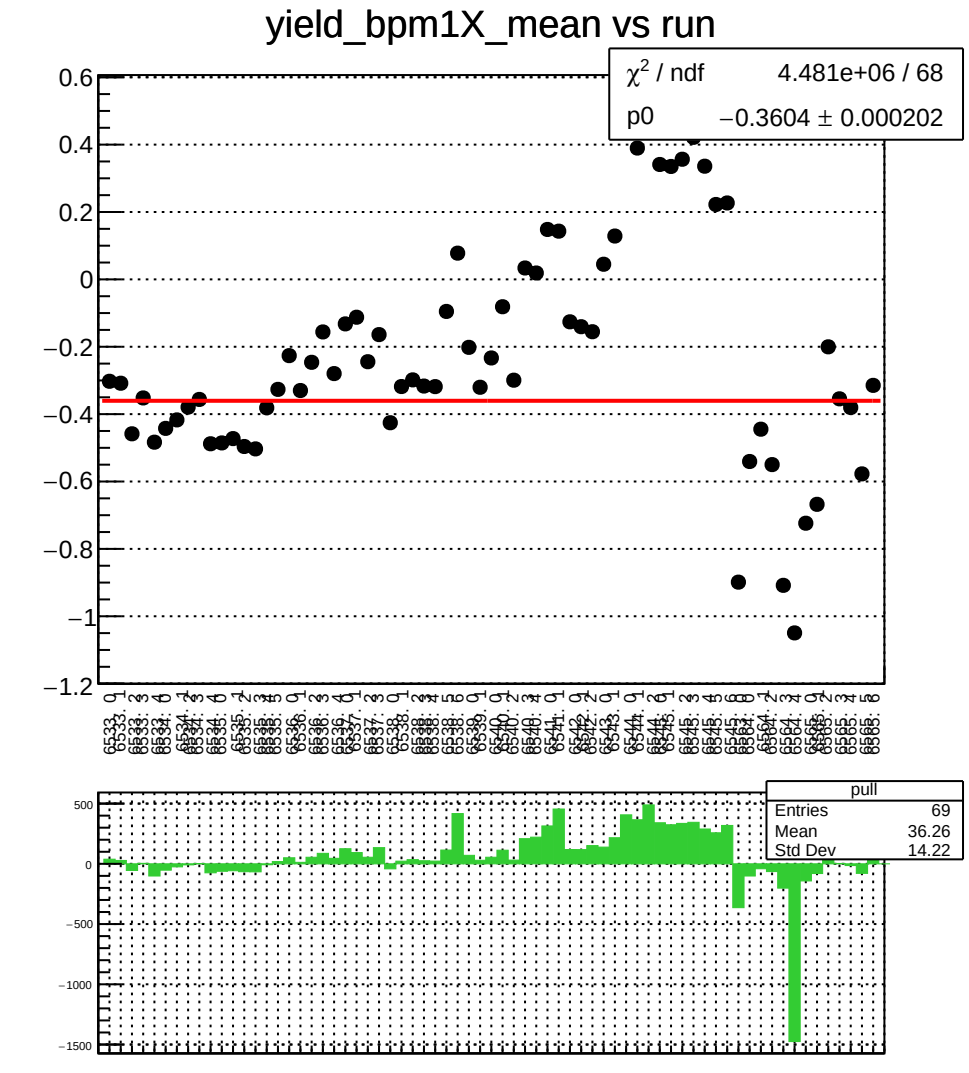

pull1D
Entries 69
Mean −1.624
Std Dev 5.87
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

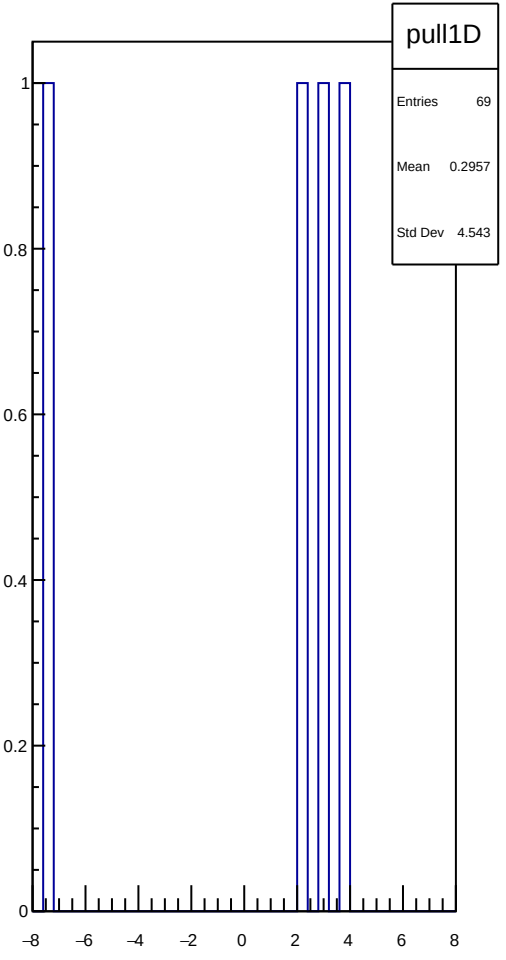

yield_bpm4ecX_rms vs run
χ² / ndf 1.416e+04 / 68
p0 0.03697 ± 3.185e–05
0.06
0.055
0.05
0.045
0.04
0.035
0.03

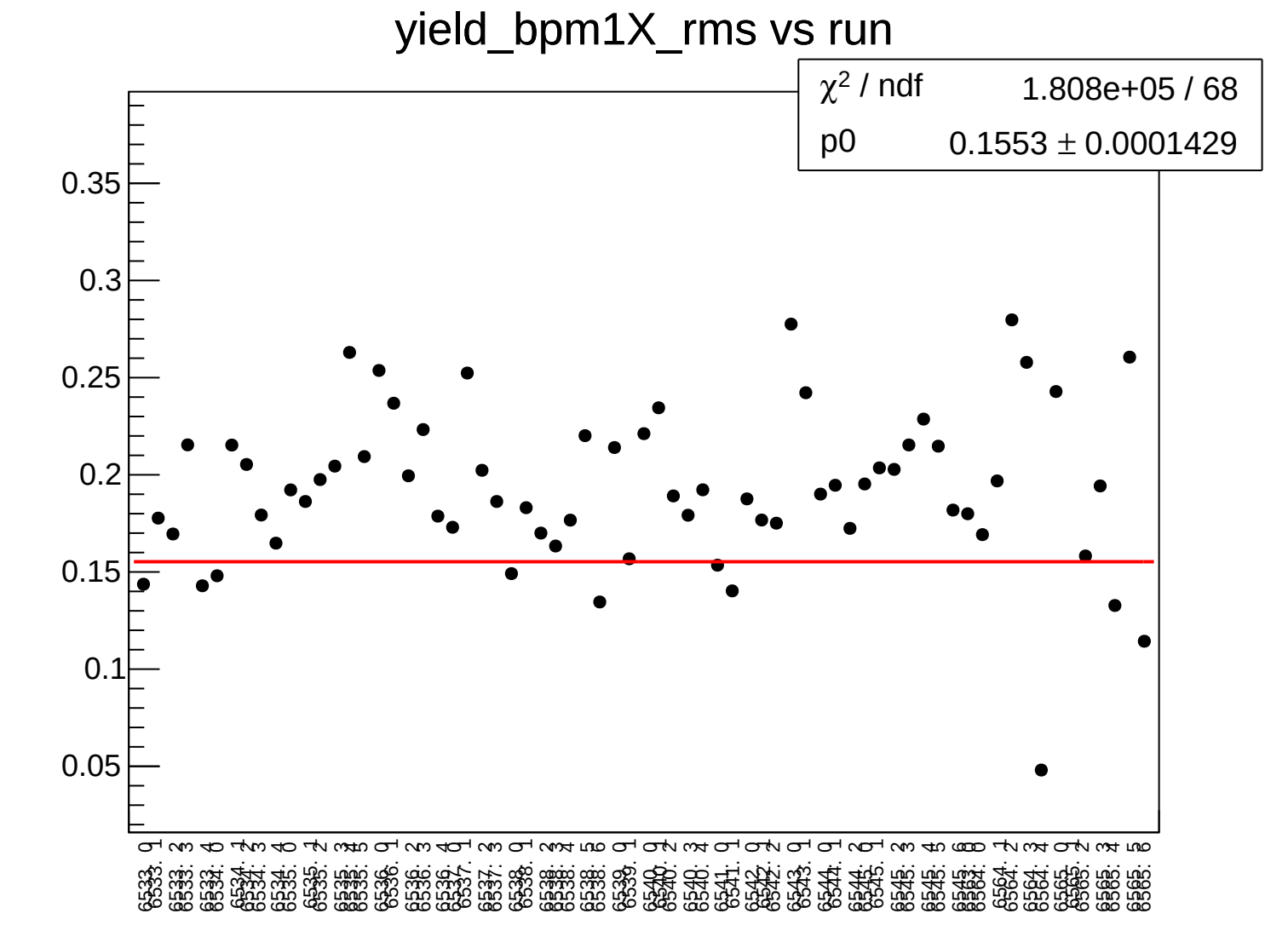

yield_bpm4ecY_mean vs run
χ² / ndf 4.778e+05 / 68
p0 0.05706 ± 1.509e−05
0.08
0.07
0.06
0.05
0.04
0.03
pull
Entries 69
Mean −116.5
Std Dev 158.6
150
100
50
0
−50
−100
−150
−200

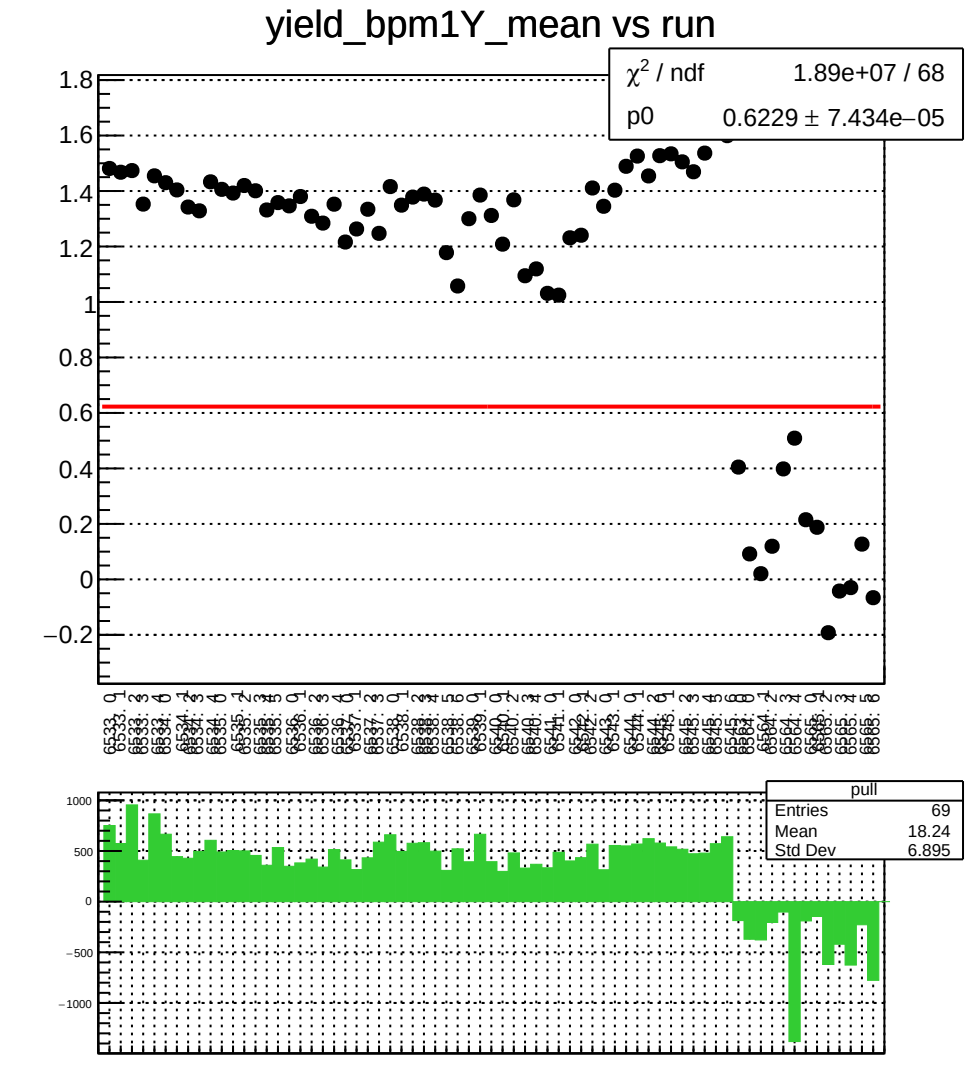

pull1D
Entries 69
Mean 1.974
Std Dev 3.604
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

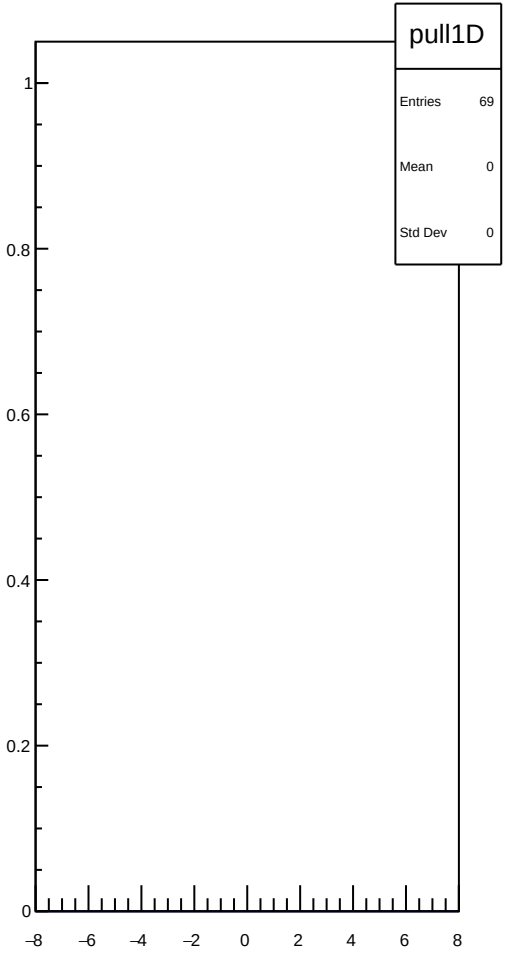

yield_bpm4ecY_rms vs run
χ² / ndf 4.077e+04 / 68
p0 0.01227 ± 1.067e–05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

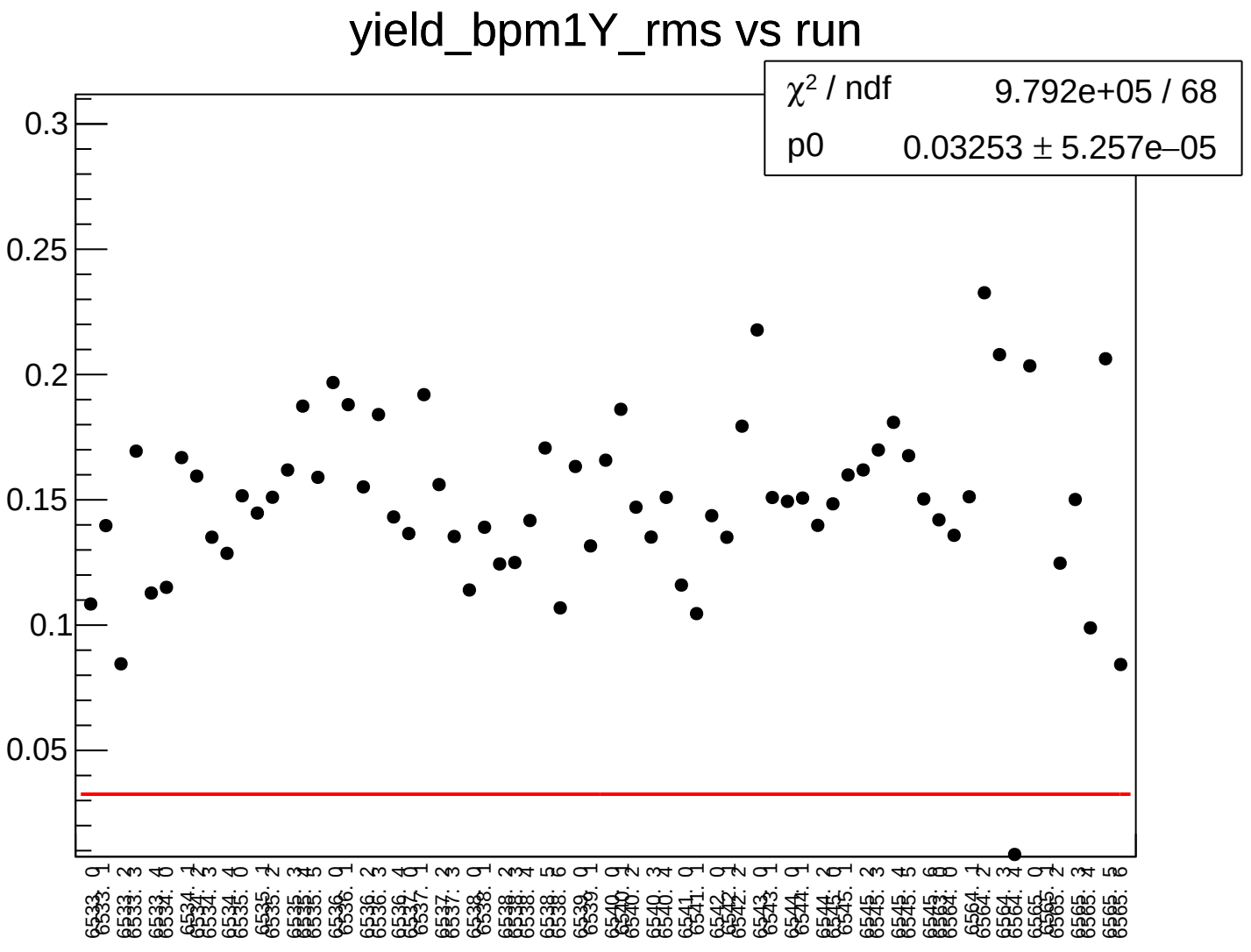

yield_bpm1X_mean vs run
χ² / ndf 4.481e+06 / 68
p0 −0.3604 ± 0.000202
pull
Entries 69
Mean 36.26
Std Dev 14.22

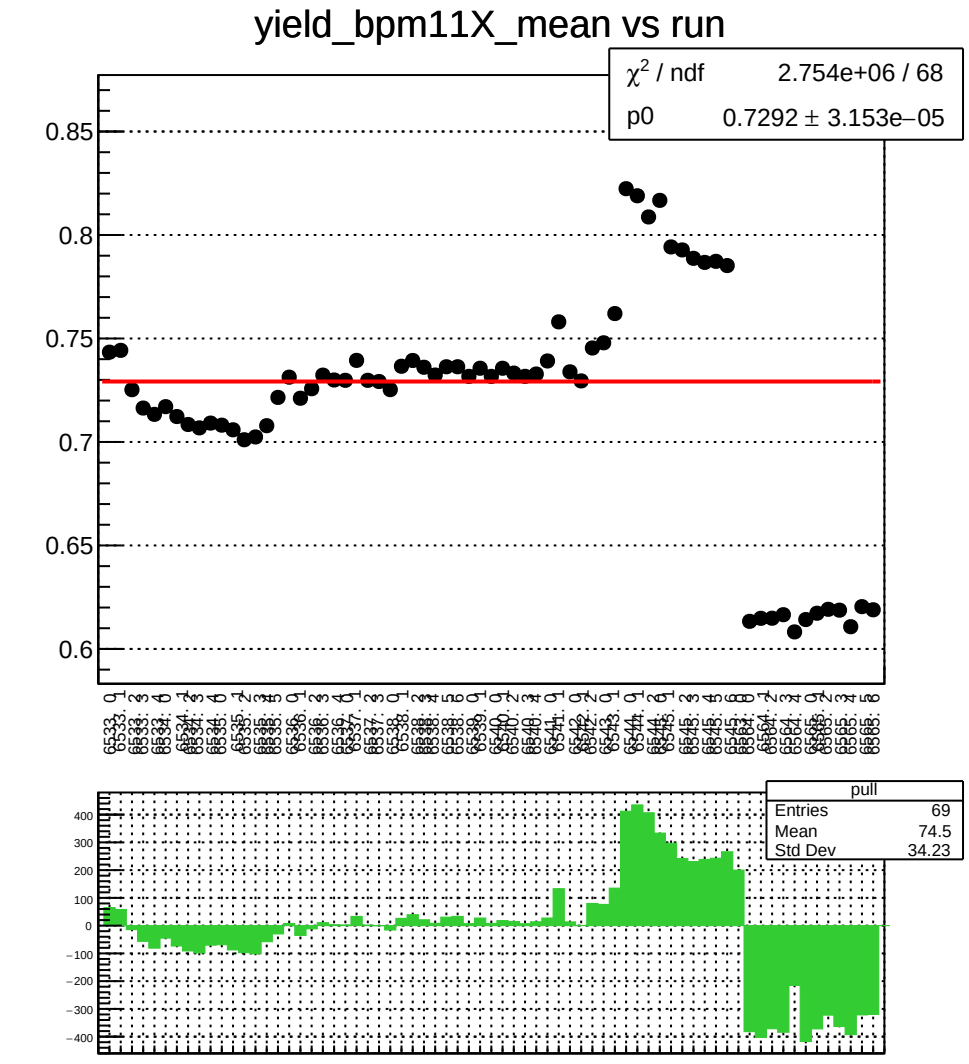

pull1D
Entries 69
Mean 0.2957
Std Dev 4.543

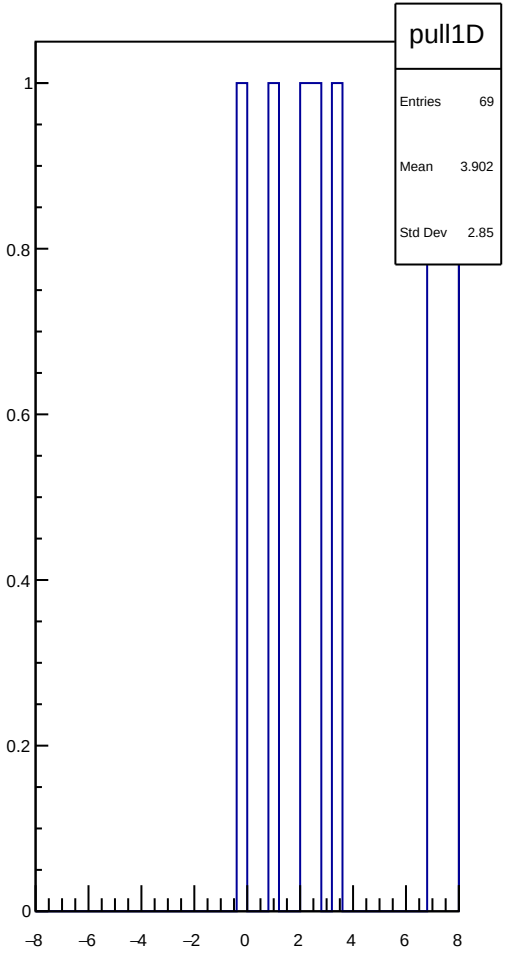

yield_bpm1X_rms vs run
χ² / ndf 1.808e+05 / 68
p0 0.1553 ± 0.0001429
0.35
0.3
0.25
0.2
0.15
0.1
0.05

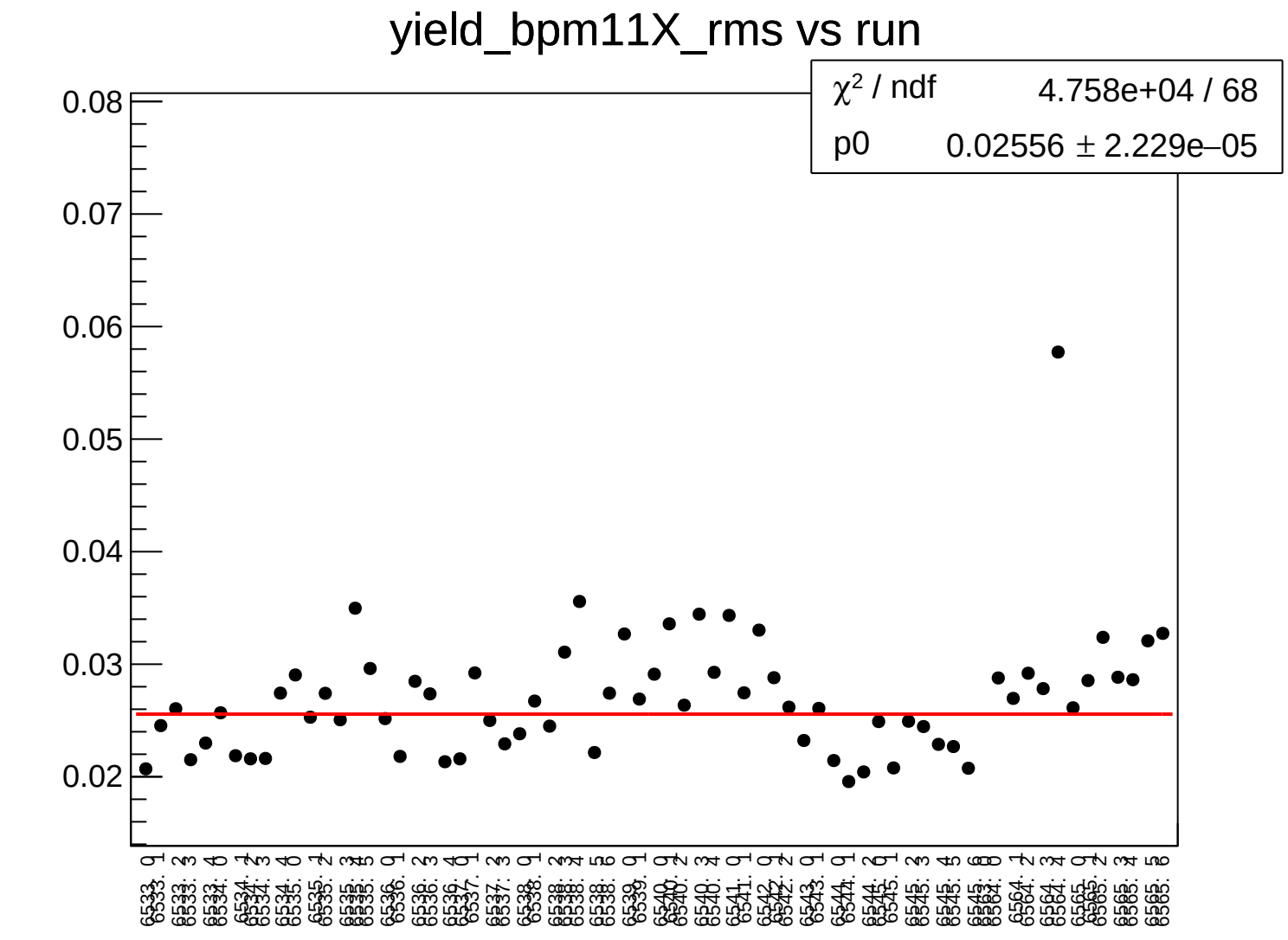

yield_bpm1Y_mean vs run
χ² / ndf 1.89e+07 / 68
p0 0.6229 ± 7.434e−05
pull
Entries 69
Mean 18.24
Std Dev 6.895

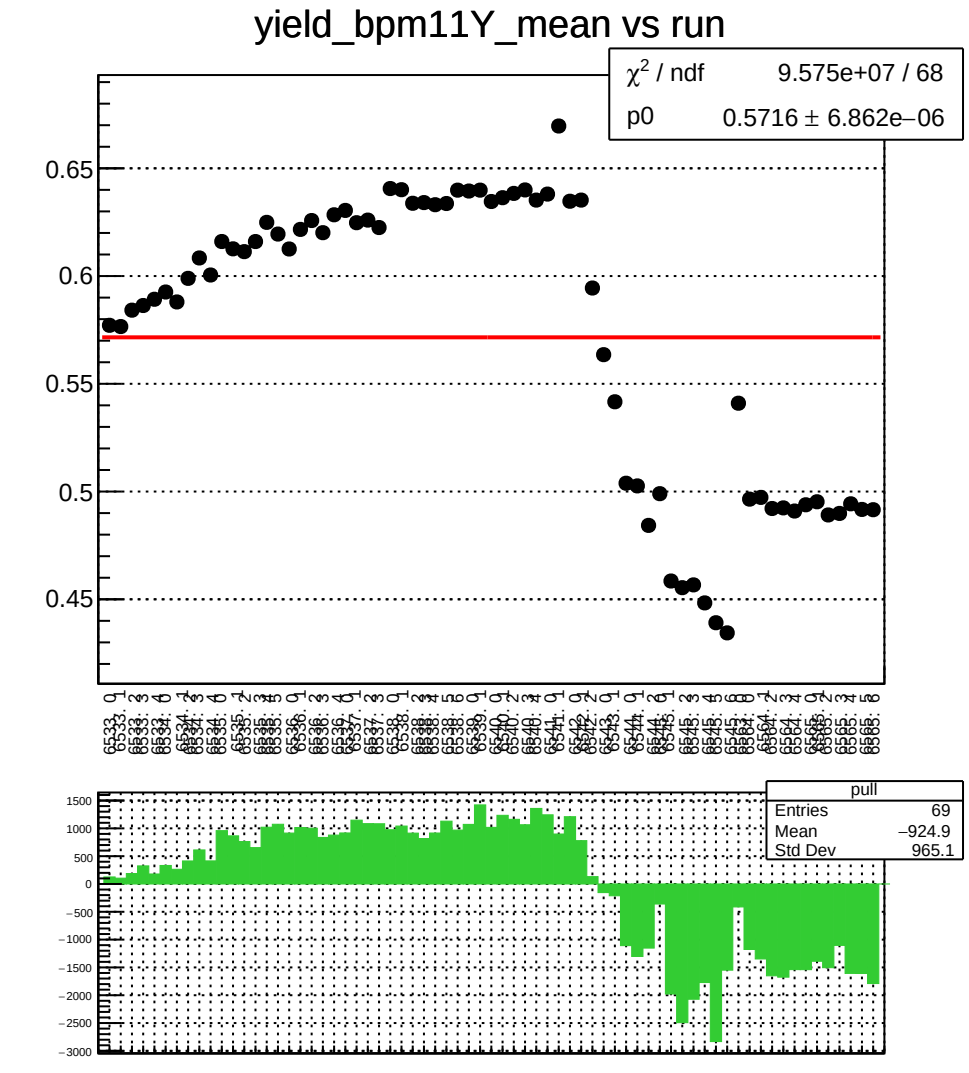

pull1D
Entries 69
Mean 0
Std Dev 0

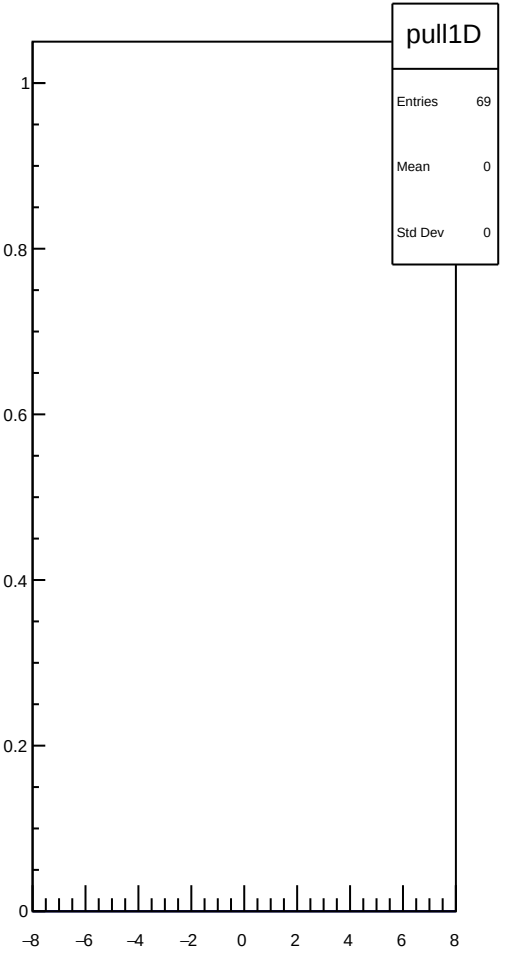

yield_bpm1Y_rms vs run
χ² / ndf 9.792e+05 / 68
p0 0.03253 ± 5.257e−05
0.3
0.25
0.2
0.15
0.1
0.05

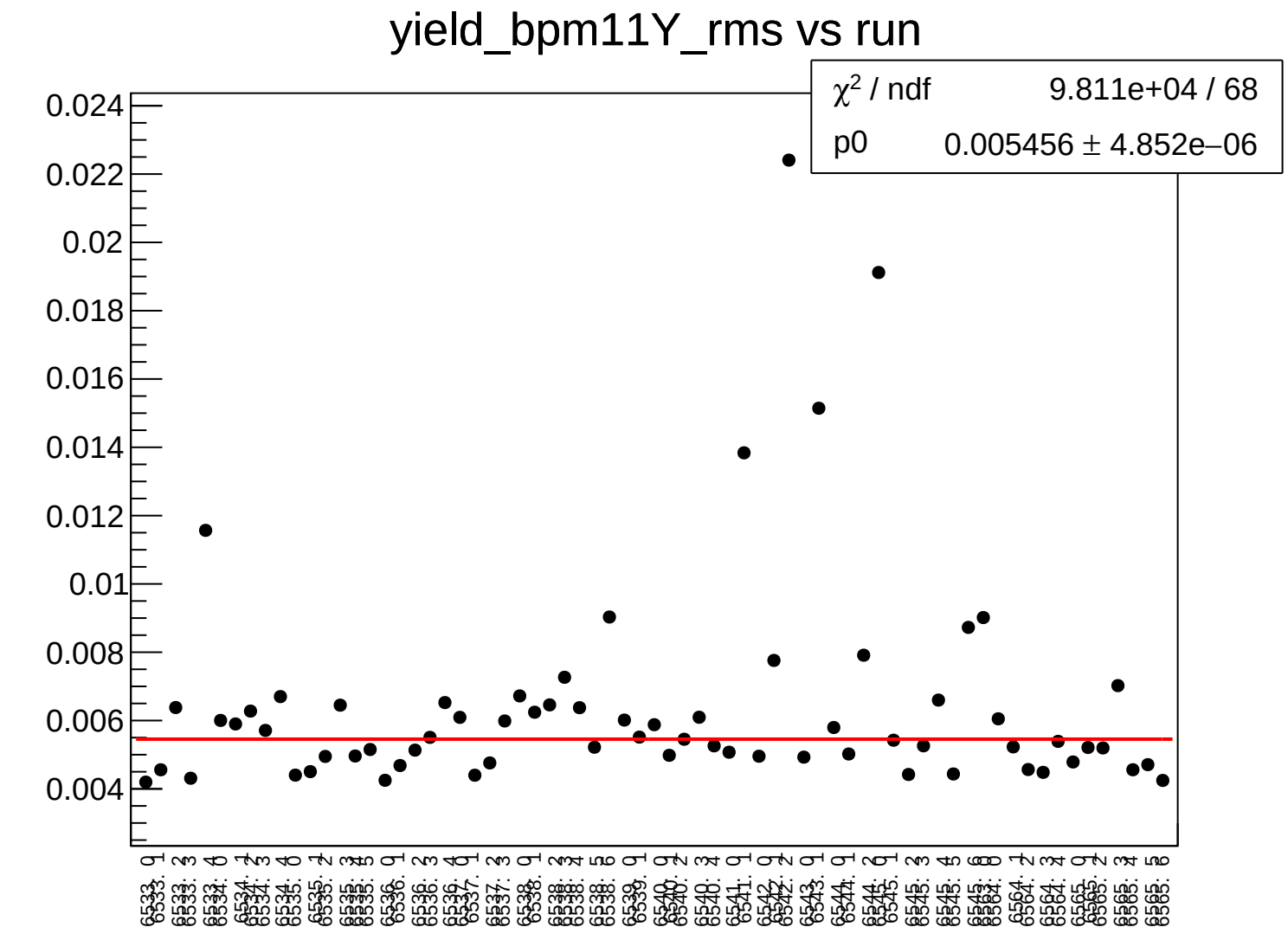

yield_bpm11X_mean vs run
χ² / ndf 2.754e+06 / 68
p0 0.7292 ± 3.153e−05
0.85
0.8
0.75
0.7
0.65
0.6
pull
Entries 69
Mean 74.5
Std Dev 34.23
400
300
200
100
0
−100
−200
−300
−400

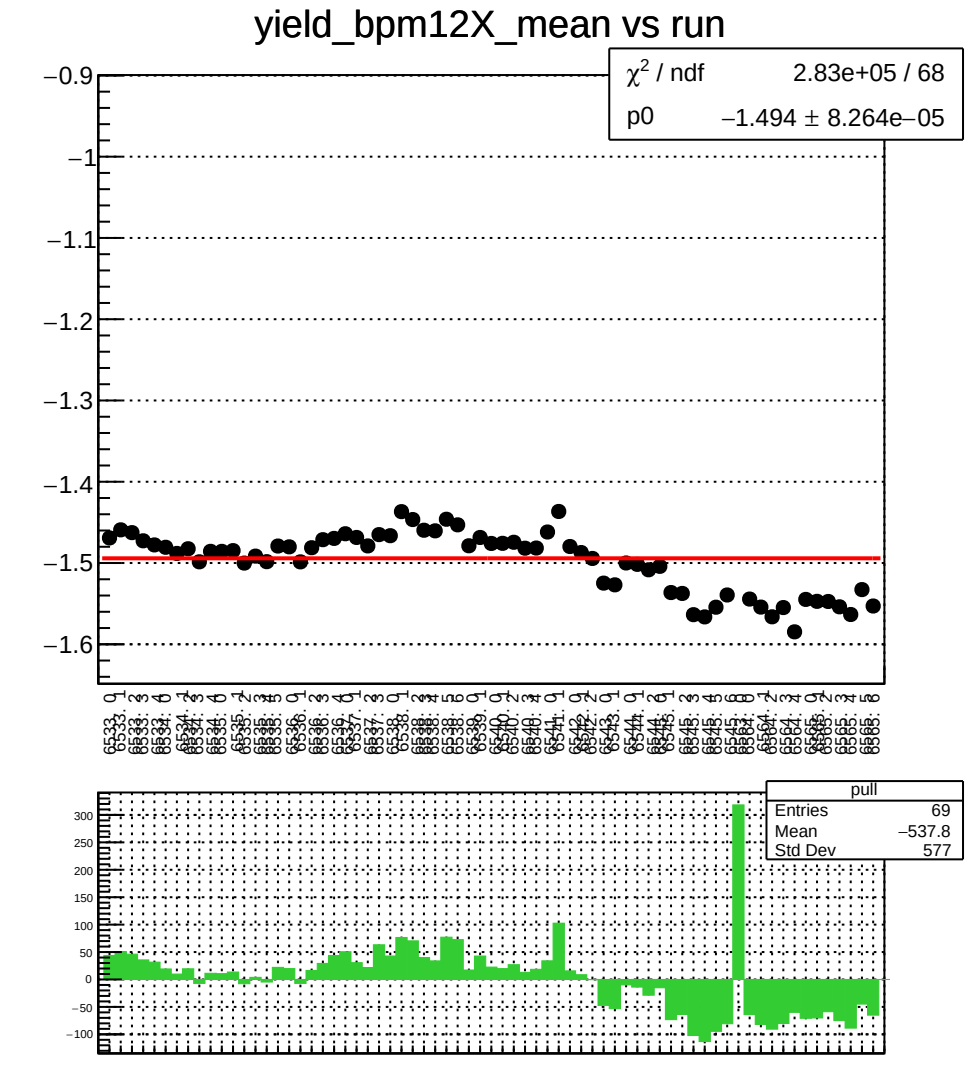

pull1D
Entries 69
Mean 3.902
Std Dev 2.85
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

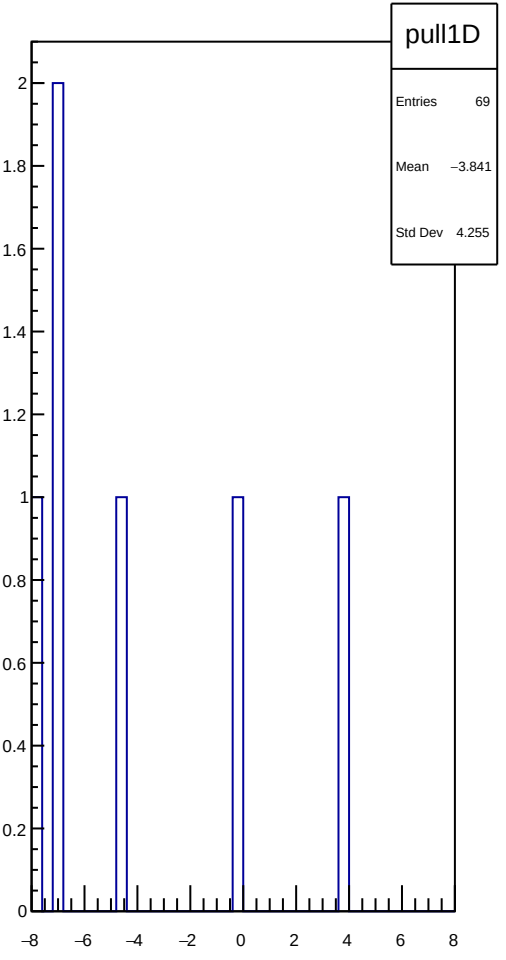

yield_bpm11X_rms vs run
χ² / ndf 4.758e+04 / 68
p0 0.02556 ± 2.229e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

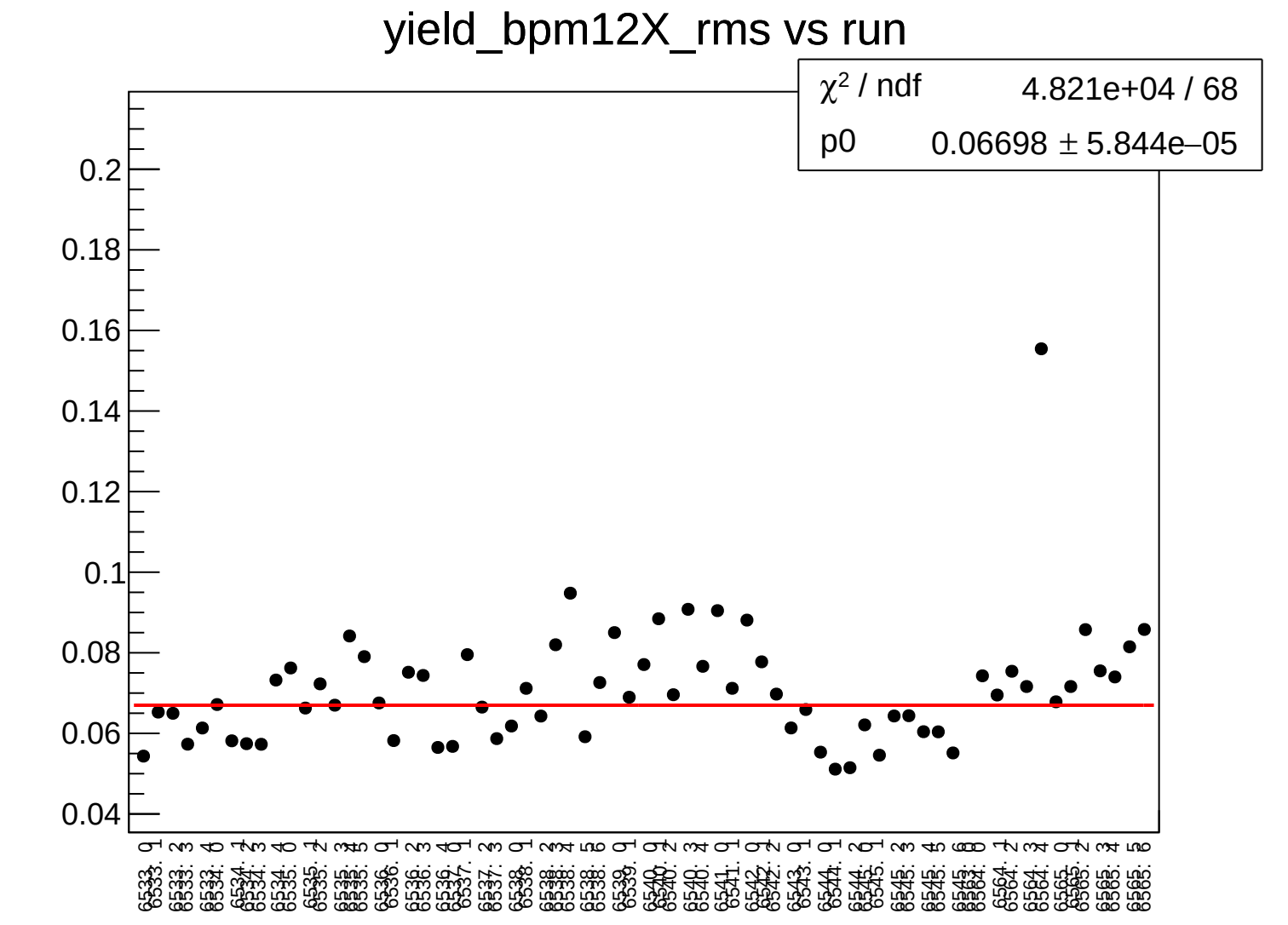

yield_bpm11Y_mean vs run
χ² / ndf 9.575e+07 / 68
p0 0.5716 ± 6.862e−06
0.65
0.6
0.55
0.5
0.45
pull
Entries 69
Mean −924.9
Std Dev 965.1
1500
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

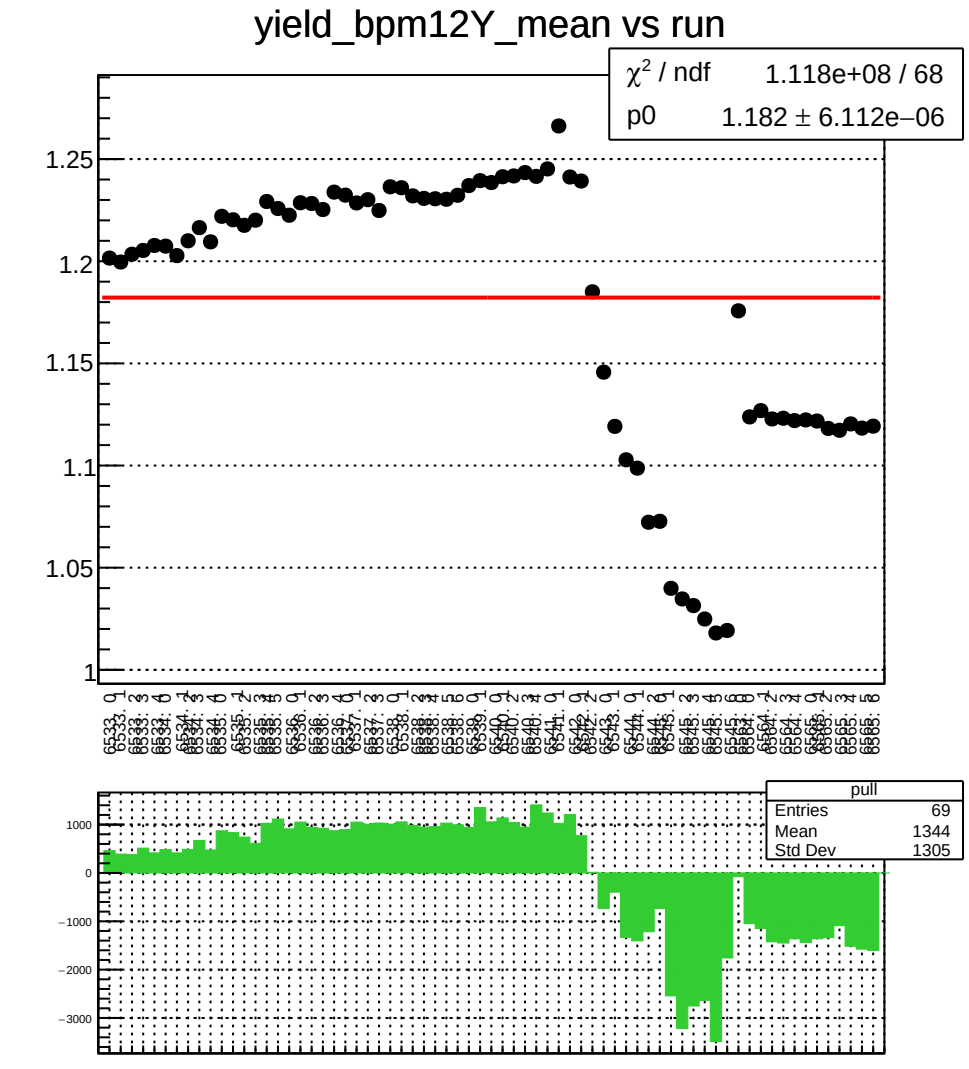

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

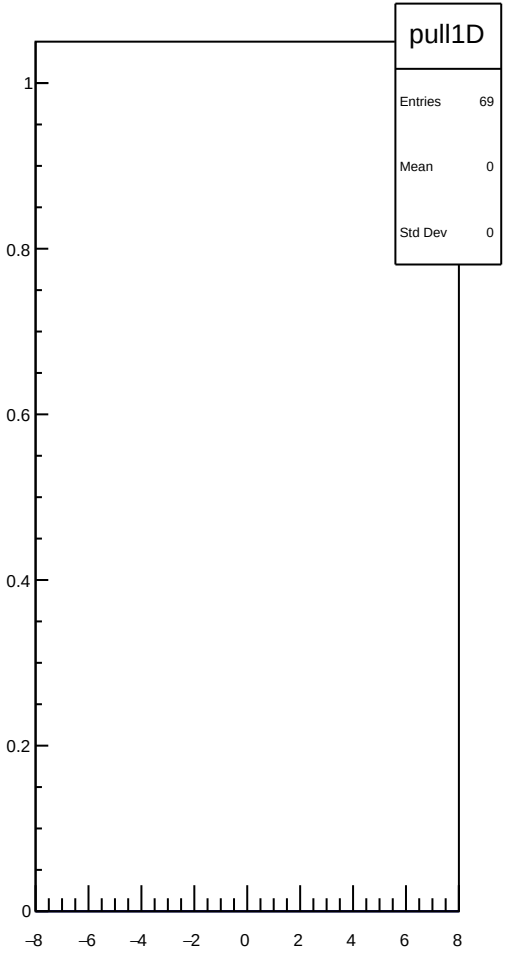

yield_bpm11Y_rms vs run
$\chi^2$ / ndf 9.811e+04 / 68
p0 0.005456 ± 4.852e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

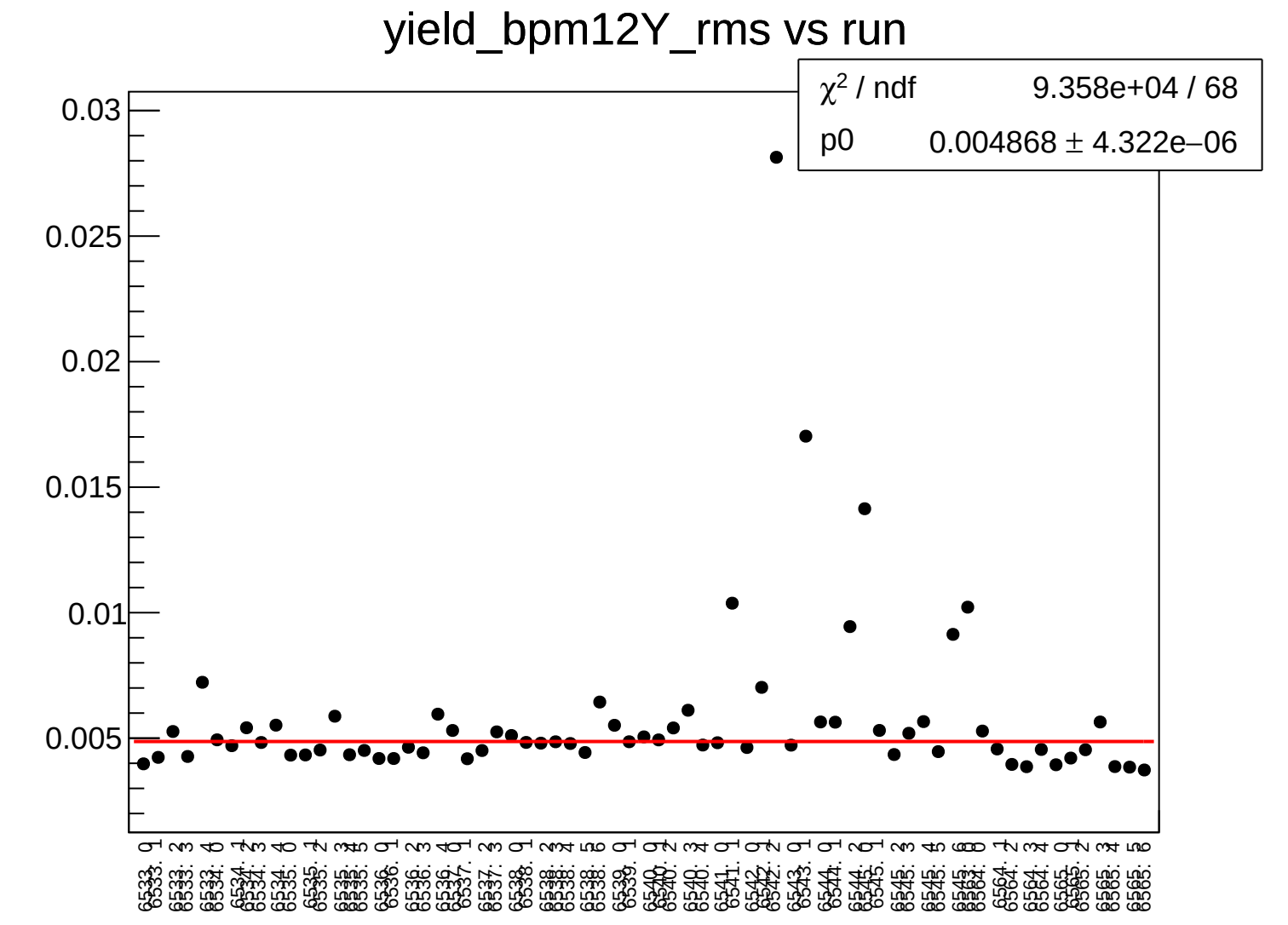

yield_bpm12X_mean vs run
χ² / ndf 2.83e+05 / 68
p0 −1.494 ± 8.264e−05
pull
Entries 69
Mean −537.8
Std Dev 577

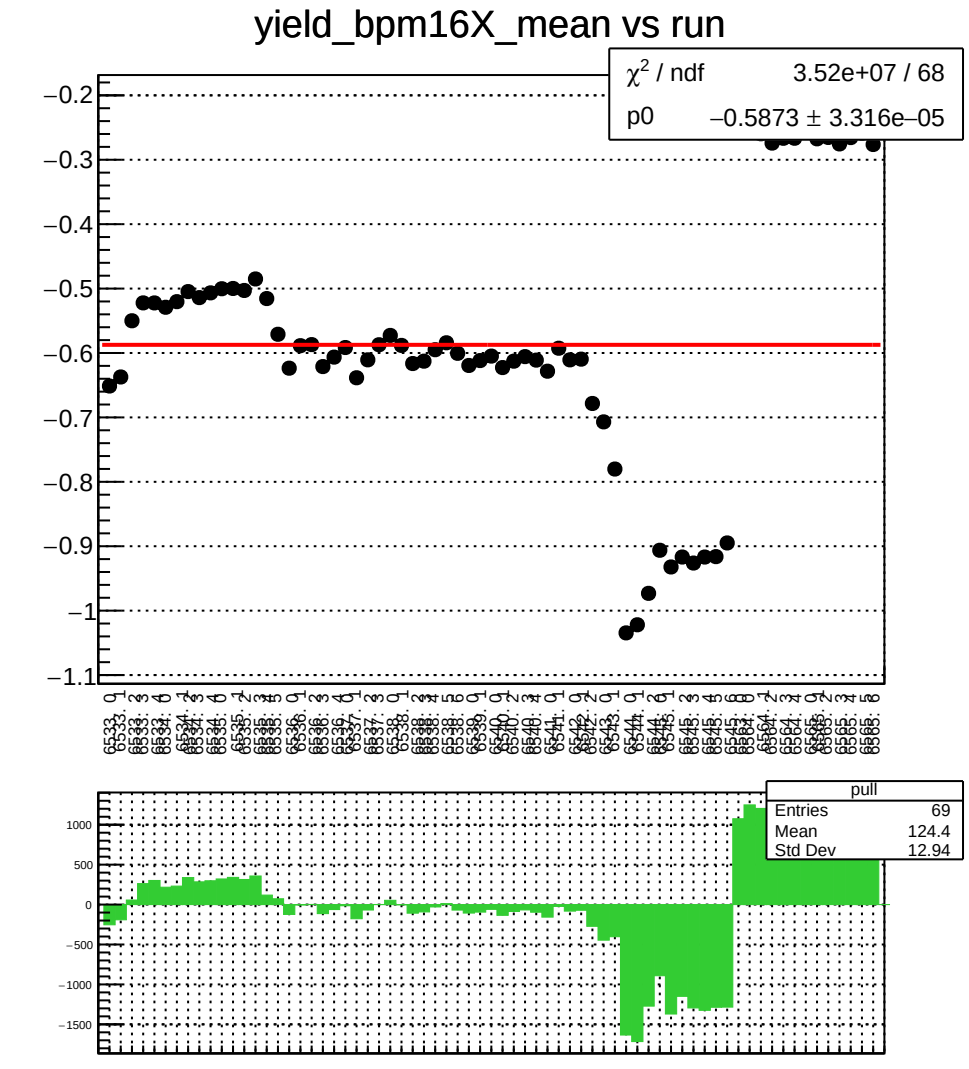

pull1D
Entries 69
Mean −3.841
Std Dev 4.255

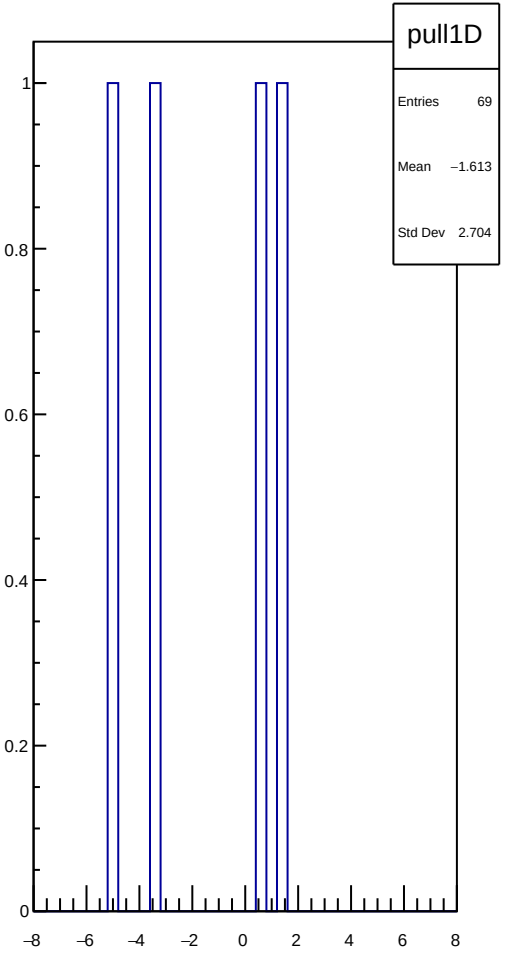

yield_bpm12X_rms vs run
$\chi^2$ / ndf 4.821e+04 / 68
p0 0.06698 ± 5.844e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04

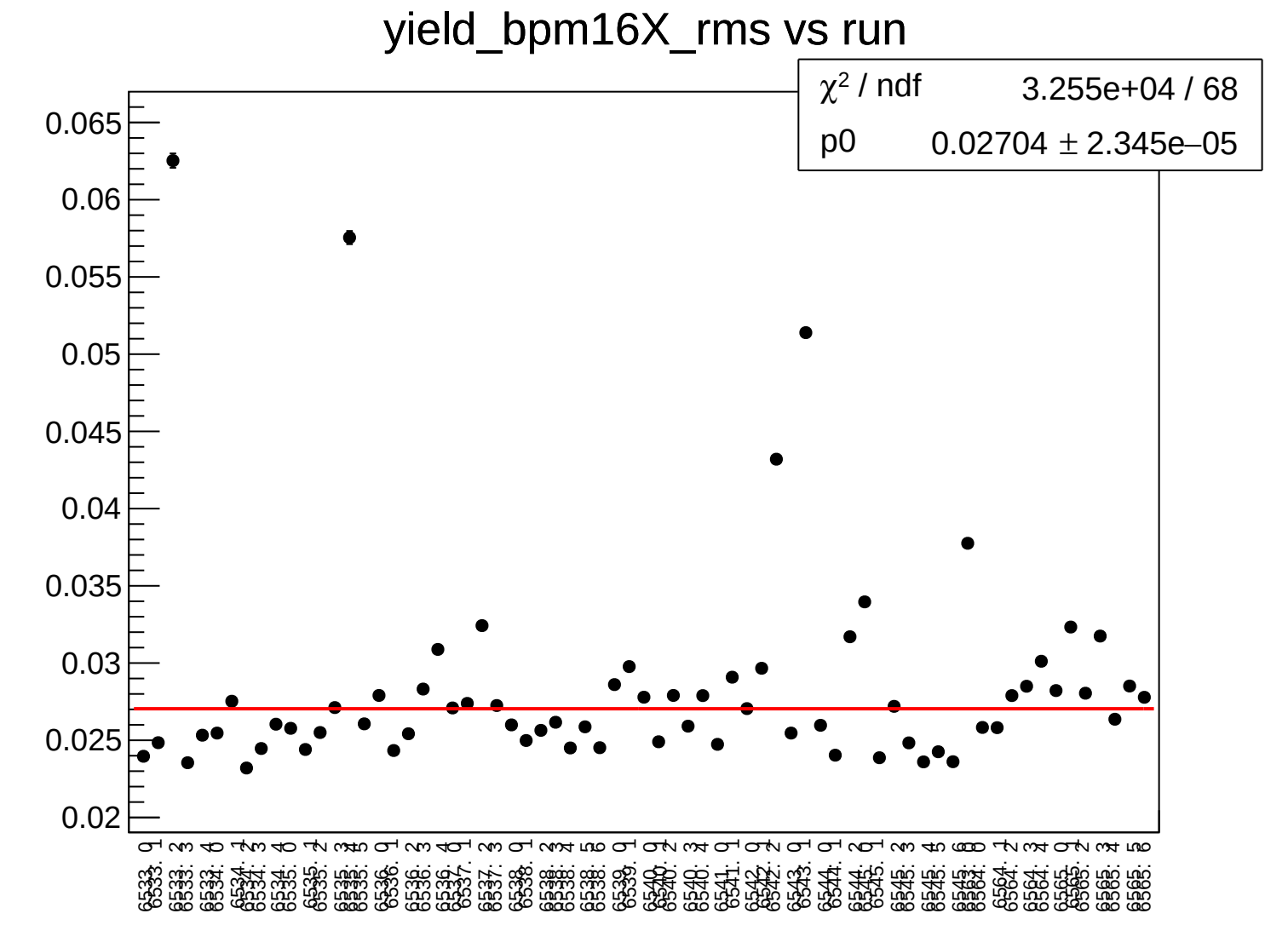

yield_bpm12Y_mean vs run
χ² / ndf 1.118e+08 / 68
p0 1.182 ± 6.112e−06
1.25
1.2
1.15
1.1
1.05
1
pull
Entries 69
Mean 1344
Std Dev 1305
1000
0
−1000
−2000
−3000

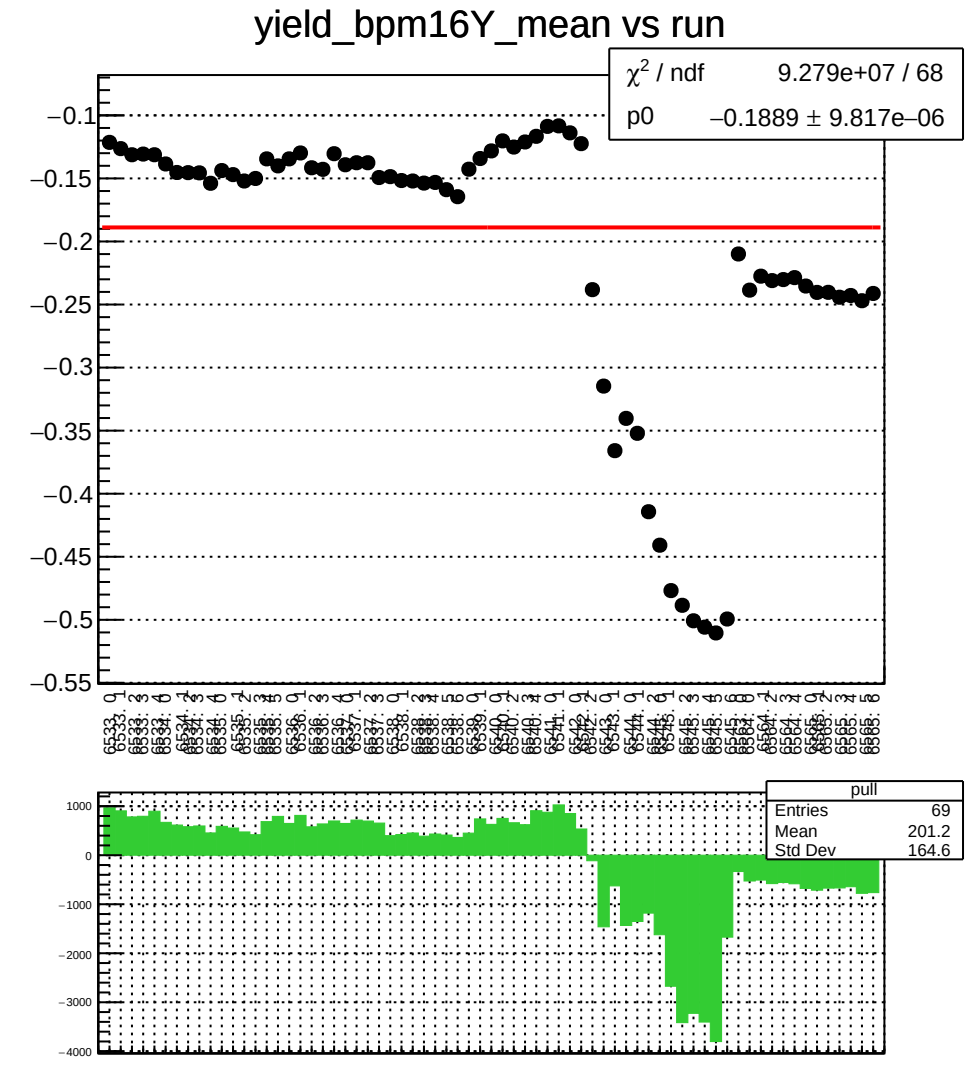

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

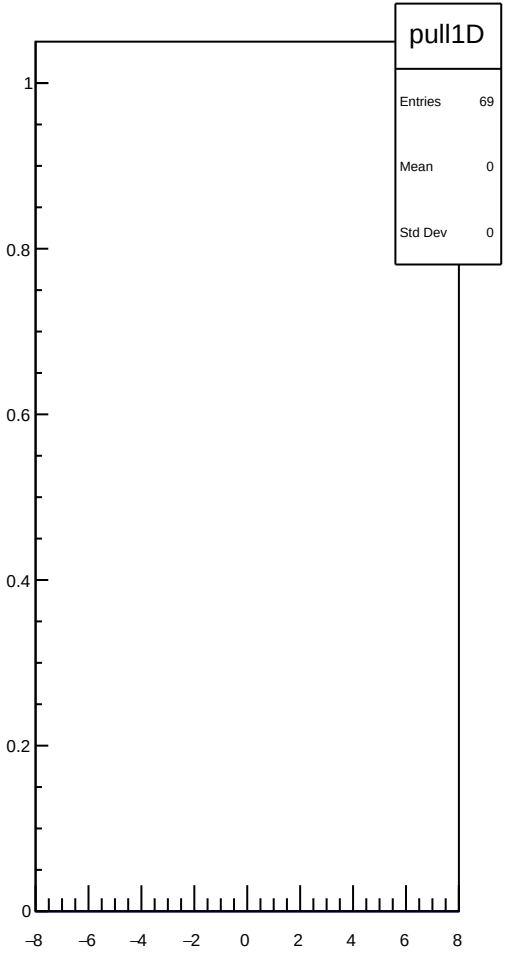

yield_bpm12Y_rms vs run
χ² / ndf 9.358e+04 / 68
p0 0.004868 ± 4.322e−06
0.03
0.025
0.02
0.015
0.01
0.005

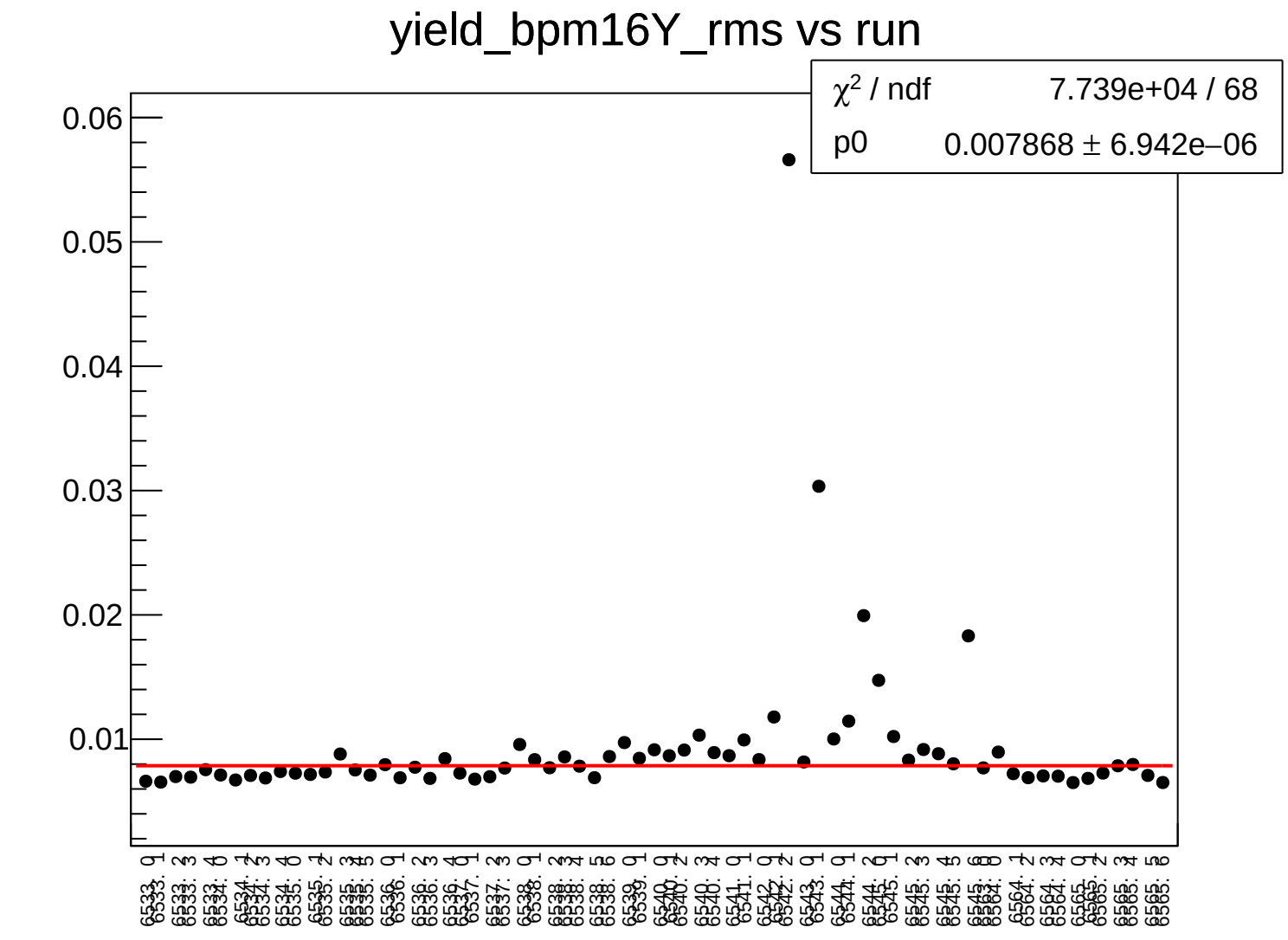

yield_bpm16X_mean vs run
χ² / ndf 3.52e+07 / 68
p0 −0.5873 ± 3.316e−05
pull
Entries 69
Mean 124.4
Std Dev 12.94

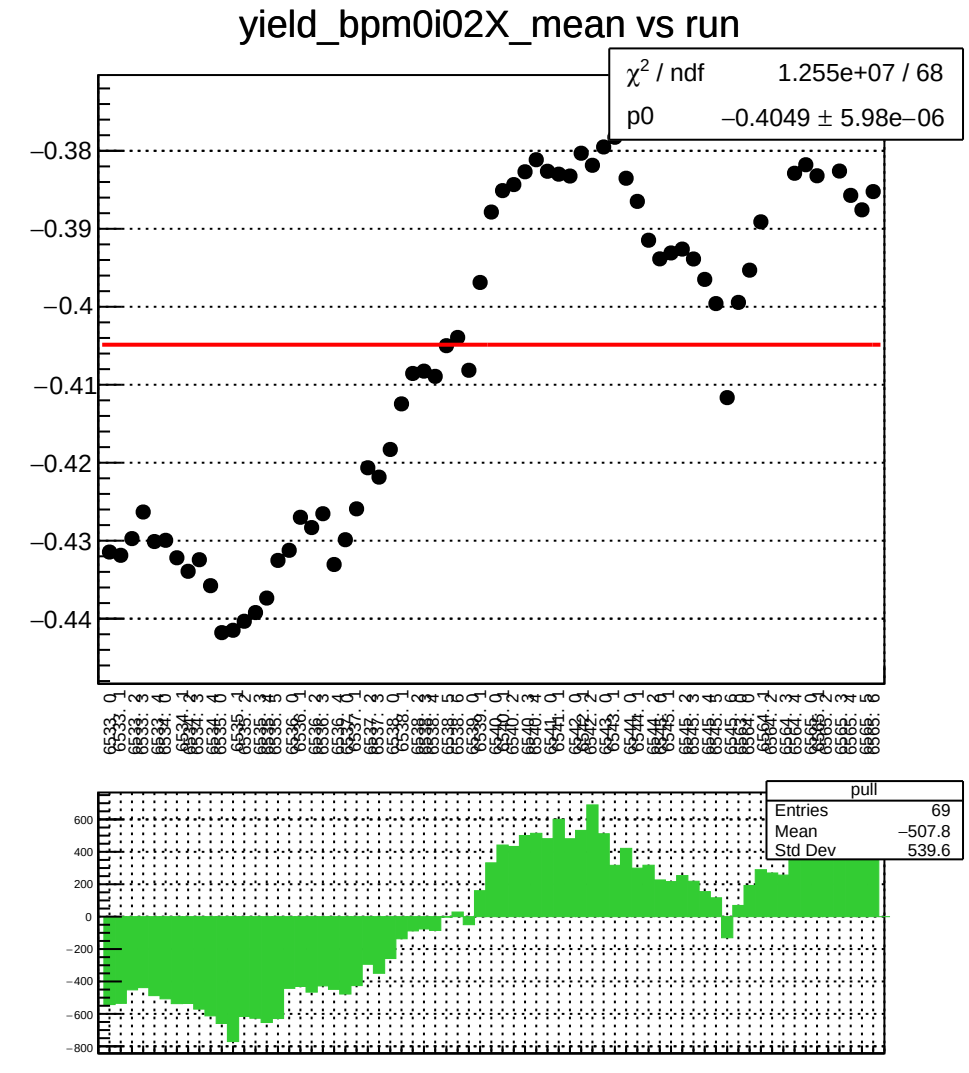

pull1D
Entries 69
Mean −1.613
Std Dev 2.704

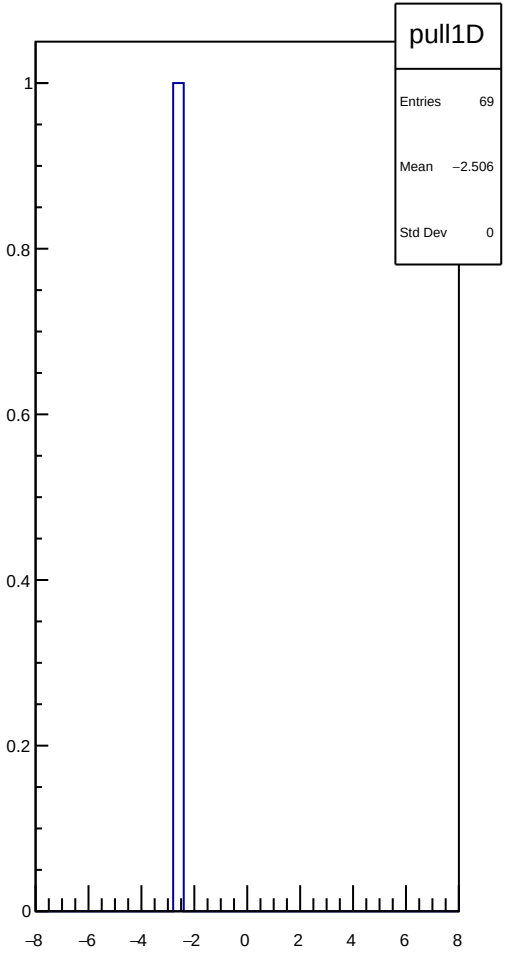

yield_bpm16X_rms vs run
χ² / ndf 3.255e+04 / 68
p0 0.02704 ± 2.345e−05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

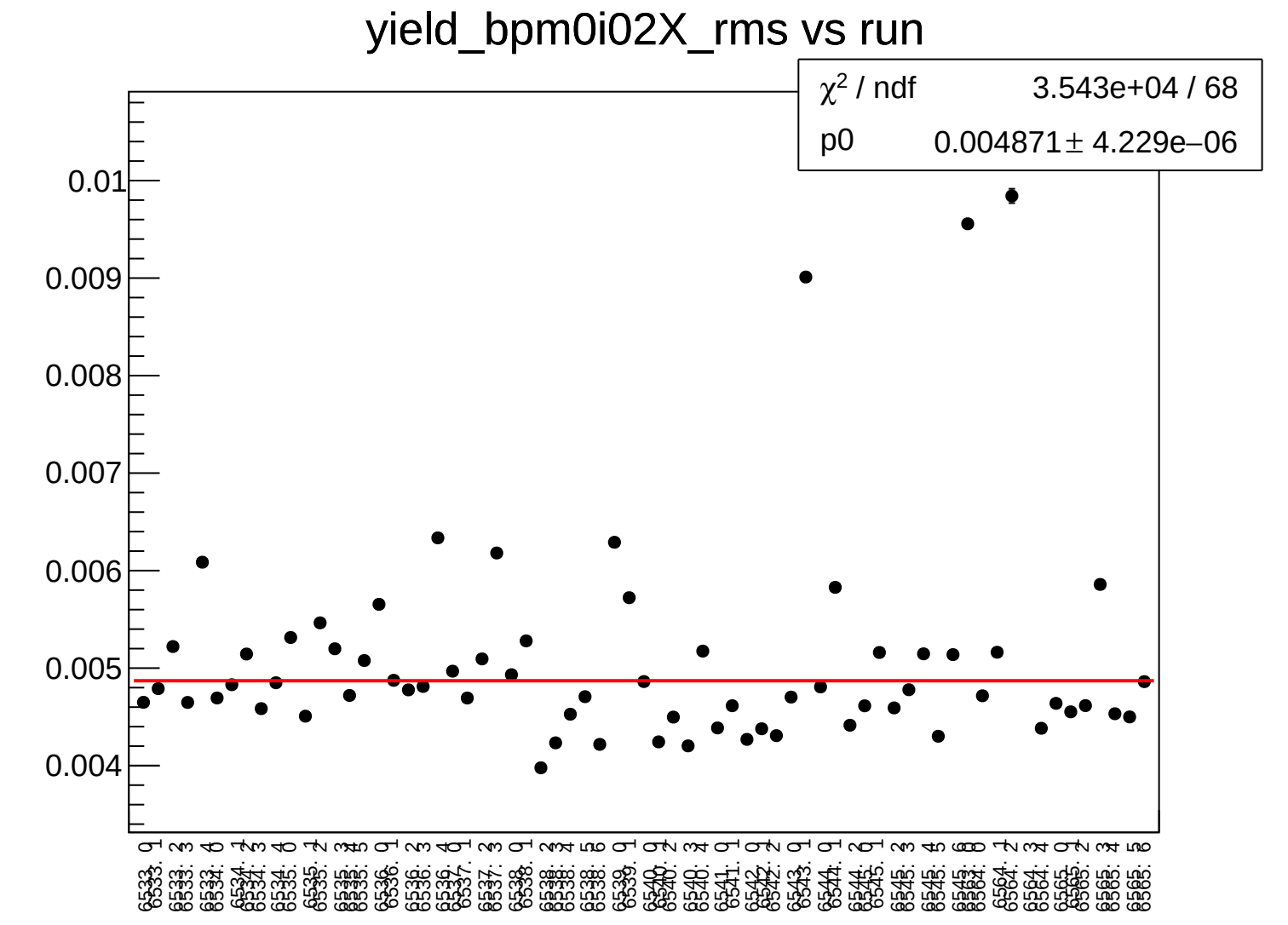

yield_bpm16Y_mean vs run
χ² / ndf 9.279e+07 / 68
p0 −0.1889 ± 9.817e−06
pull
Entries 69
Mean 201.2
Std Dev 164.6

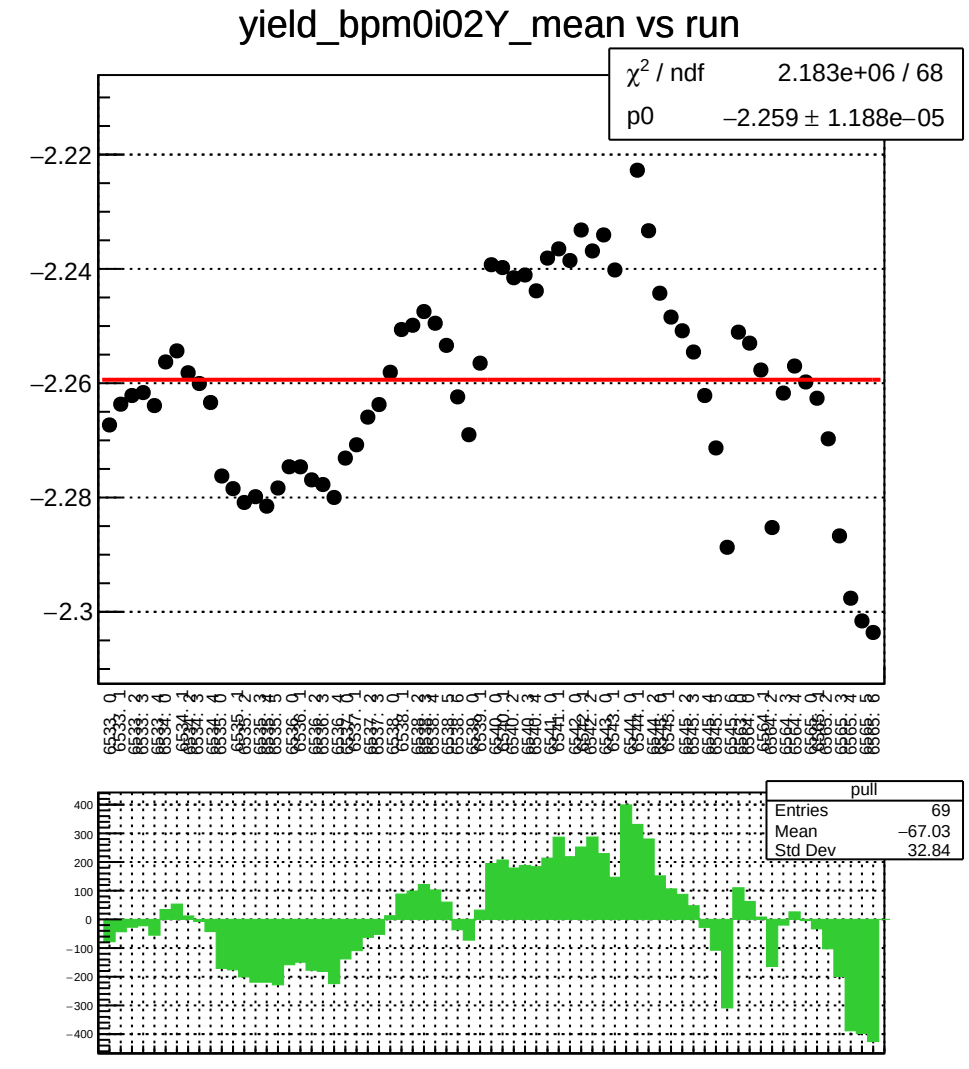

pull1D
Entries 69
Mean 0
Std Dev 0

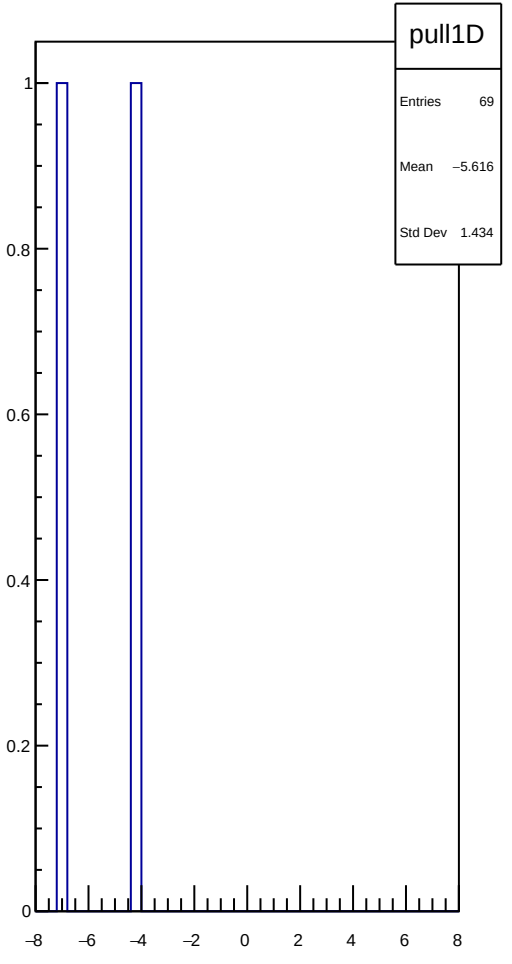

yield_bpm16Y_rms vs run
χ² / ndf 7.739e+04 / 68
p0 0.007868 ± 6.942e−06
0.06
0.05
0.04
0.03
0.02
0.01

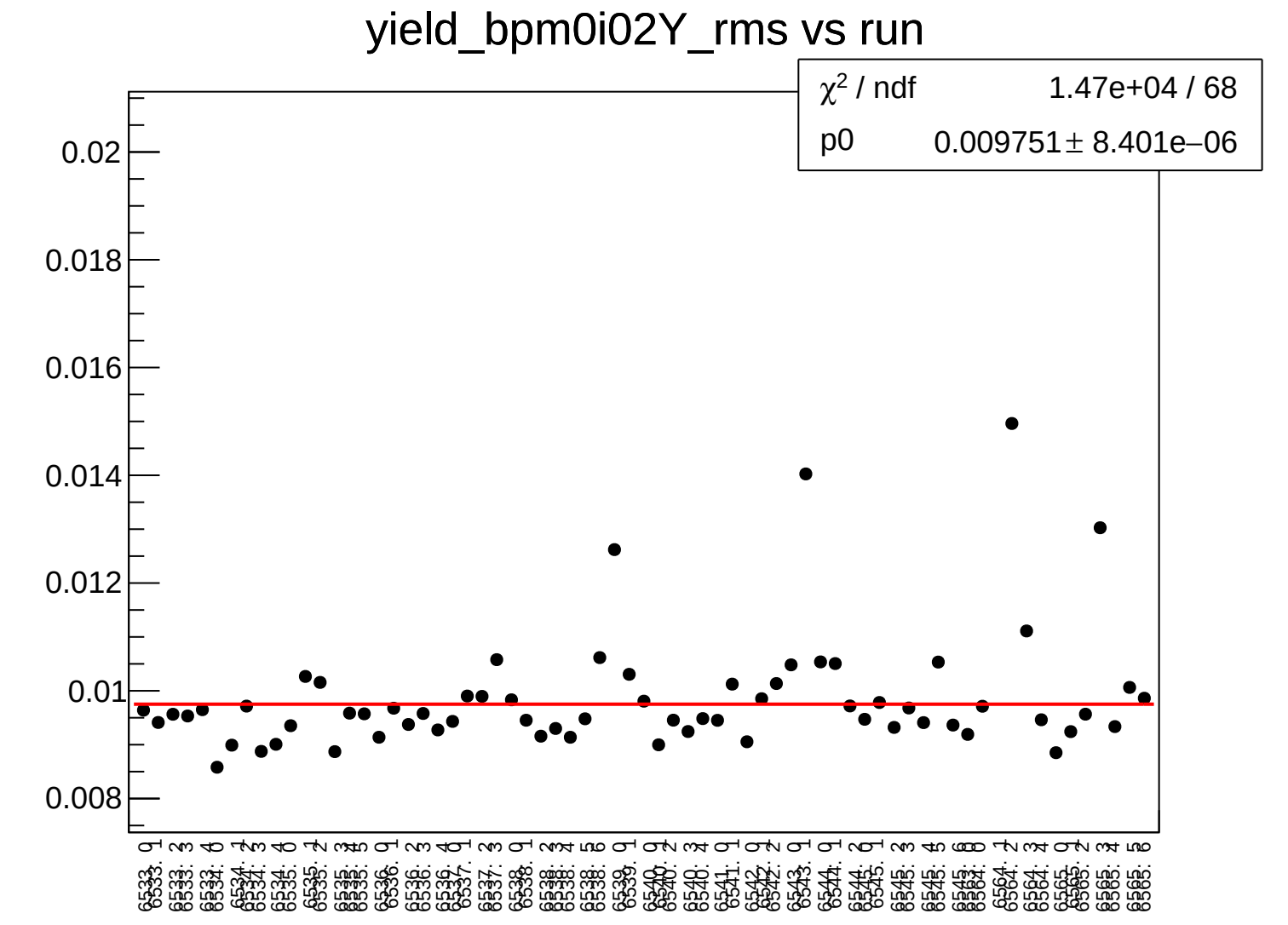

yield_bpm0i02X_mean vs run
χ² / ndf 1.255e+07 / 68
p0 −0.4049 ± 5.98e−06
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
pull
Entries 69
Mean −507.8
Std Dev 539.6
600
400
200
0
−200
−400
−600
−800

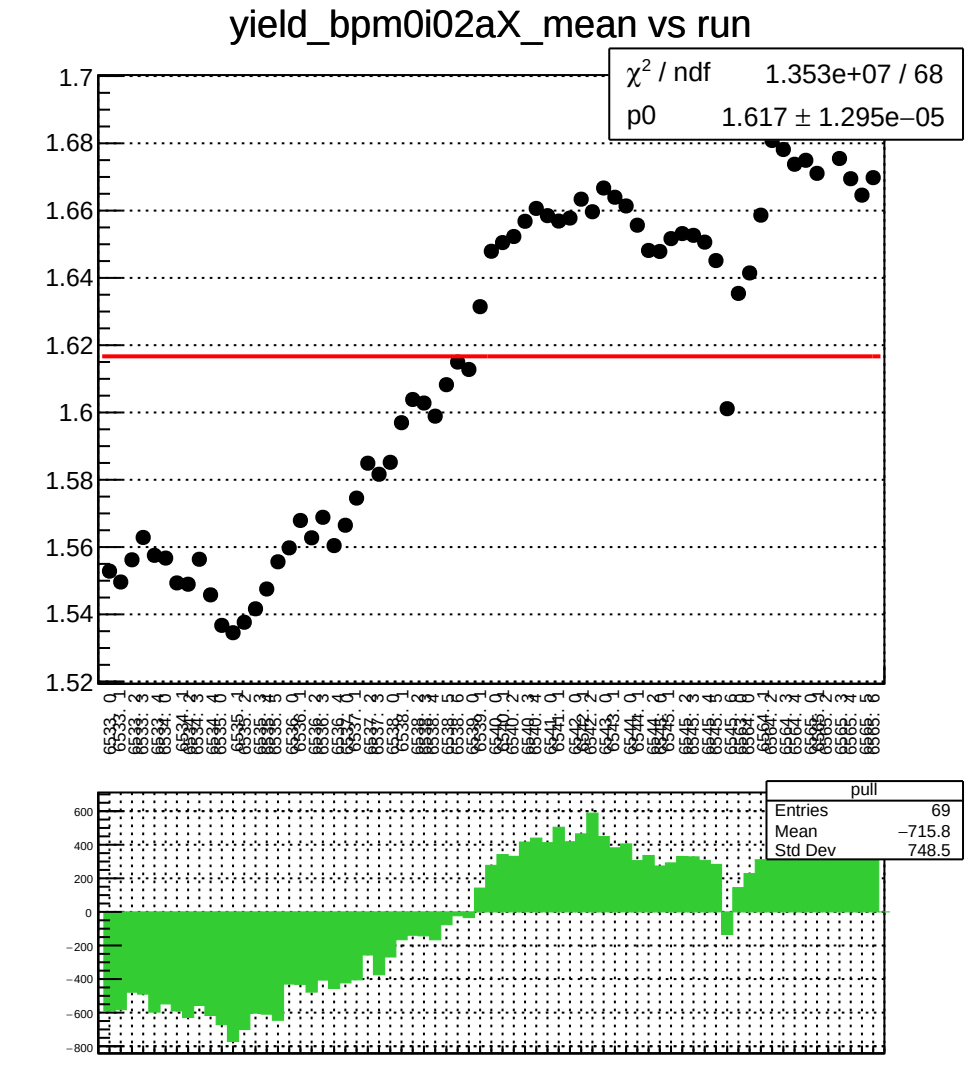

pull1D
Entries 69
Mean −2.506
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

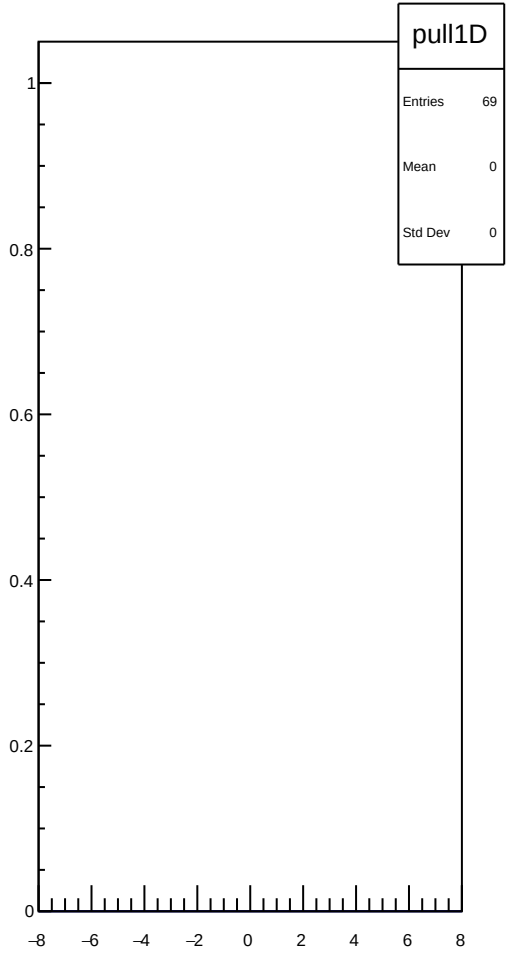

yield_bpm0i02X_rms vs run
χ² / ndf 3.543e+04 / 68
p0 0.004871 ± 4.229e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

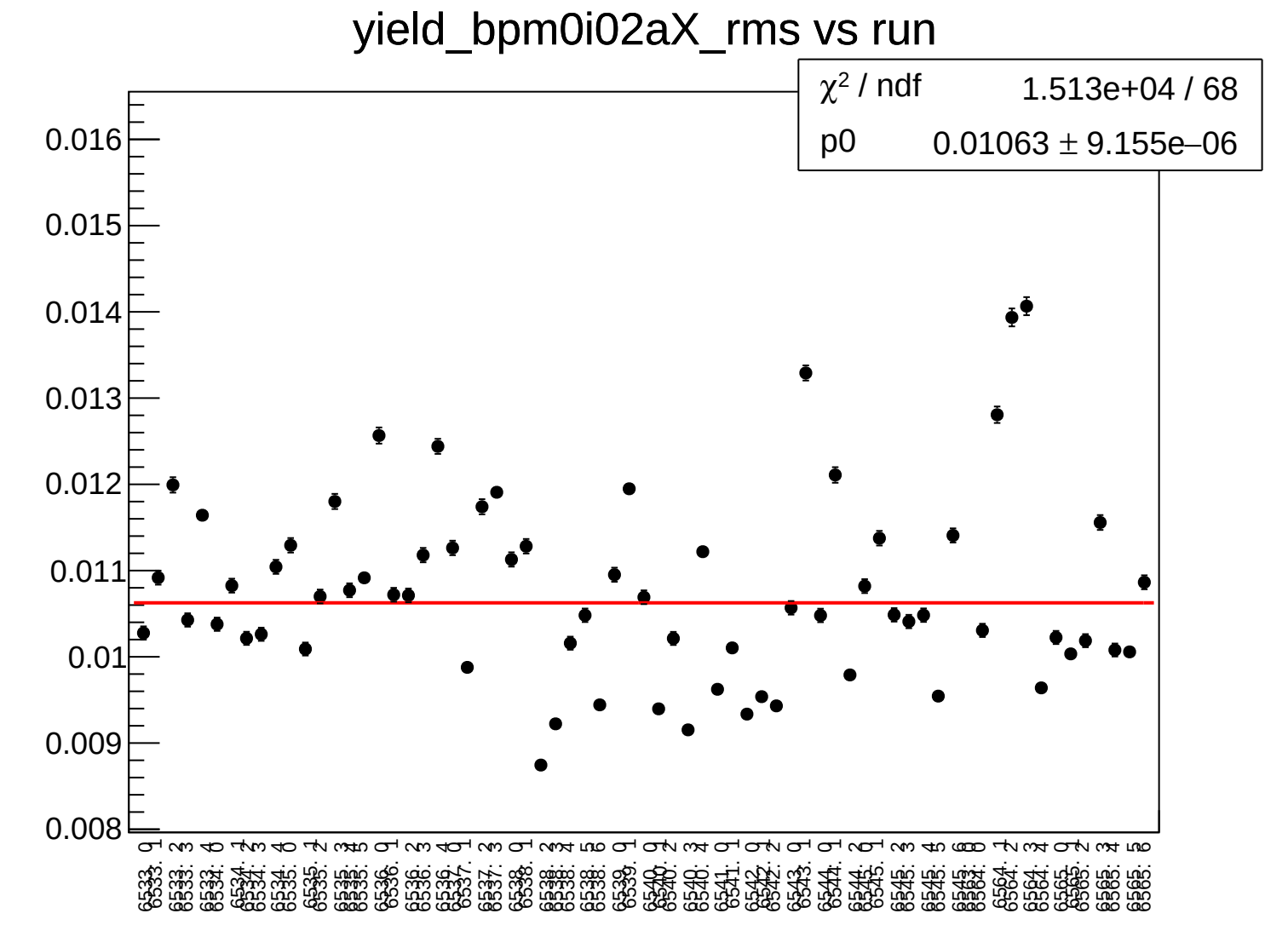

yield_bpm0i02Y_mean vs run
χ² / ndf 2.183e+06 / 68
p0 −2.259 ± 1.188e−05
−2.22
−2.24
−2.26
−2.28
−2.3
pull
Entries 69
Mean −67.03
Std Dev 32.84
400
300
200
100
0
−100
−200
−300
−400

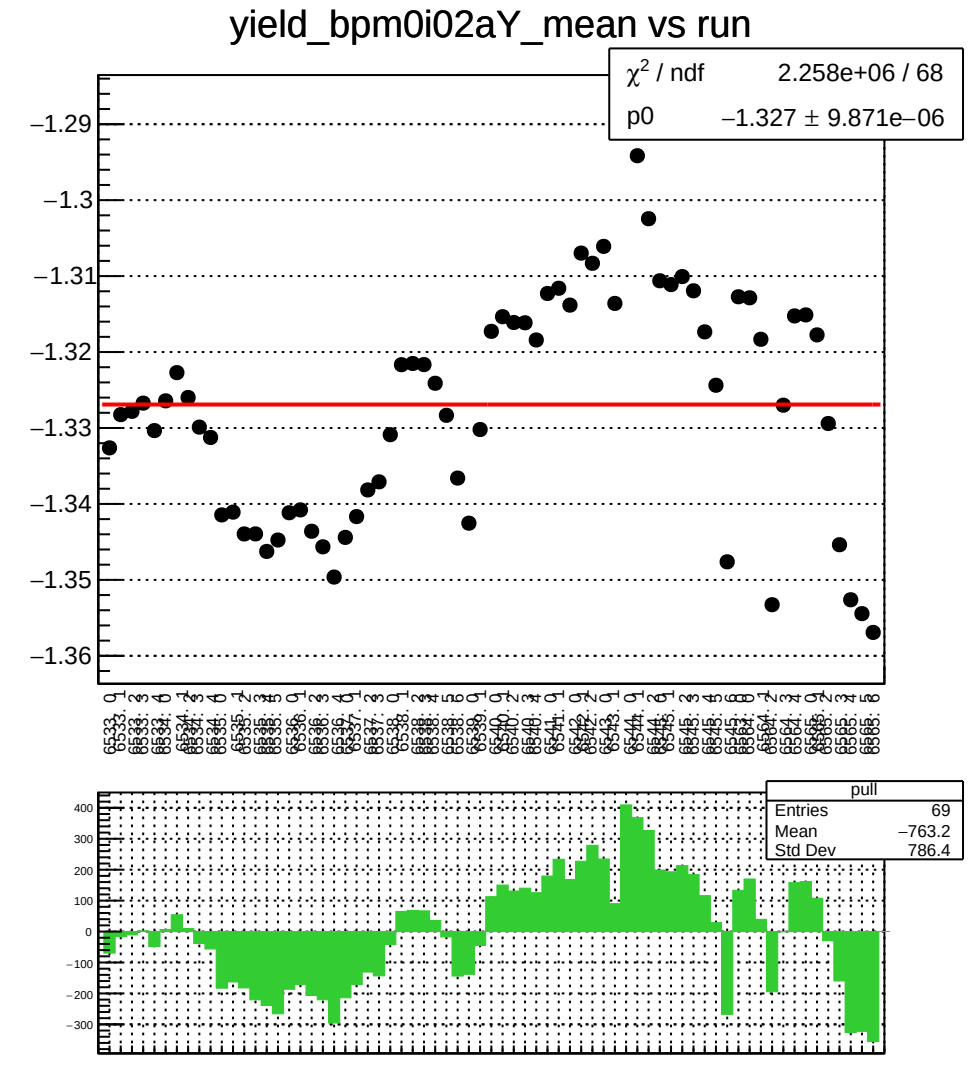

pull1D
Entries 69
Mean −5.616
Std Dev 1.434
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

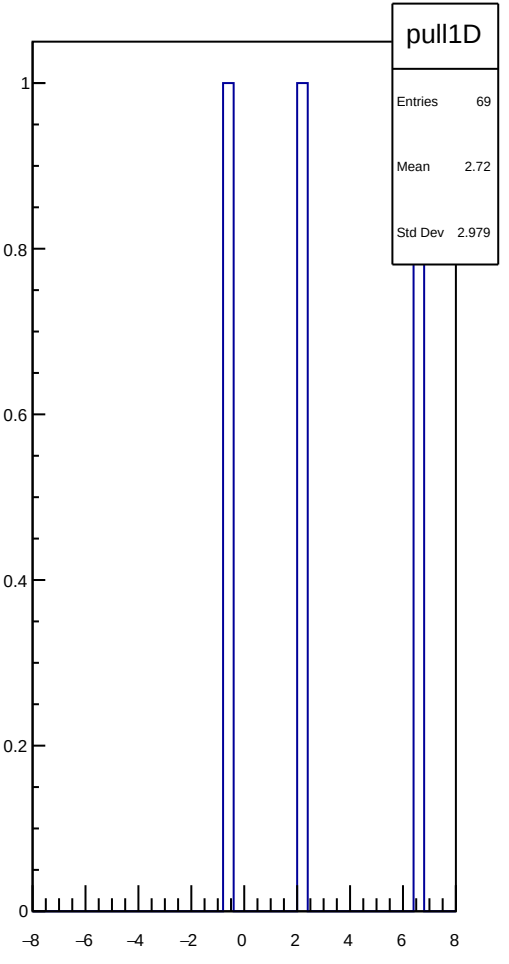

yield_bpm0i02Y_rms vs run
χ² / ndf 1.47e+04 / 68
p0 0.009751 ± 8.401e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

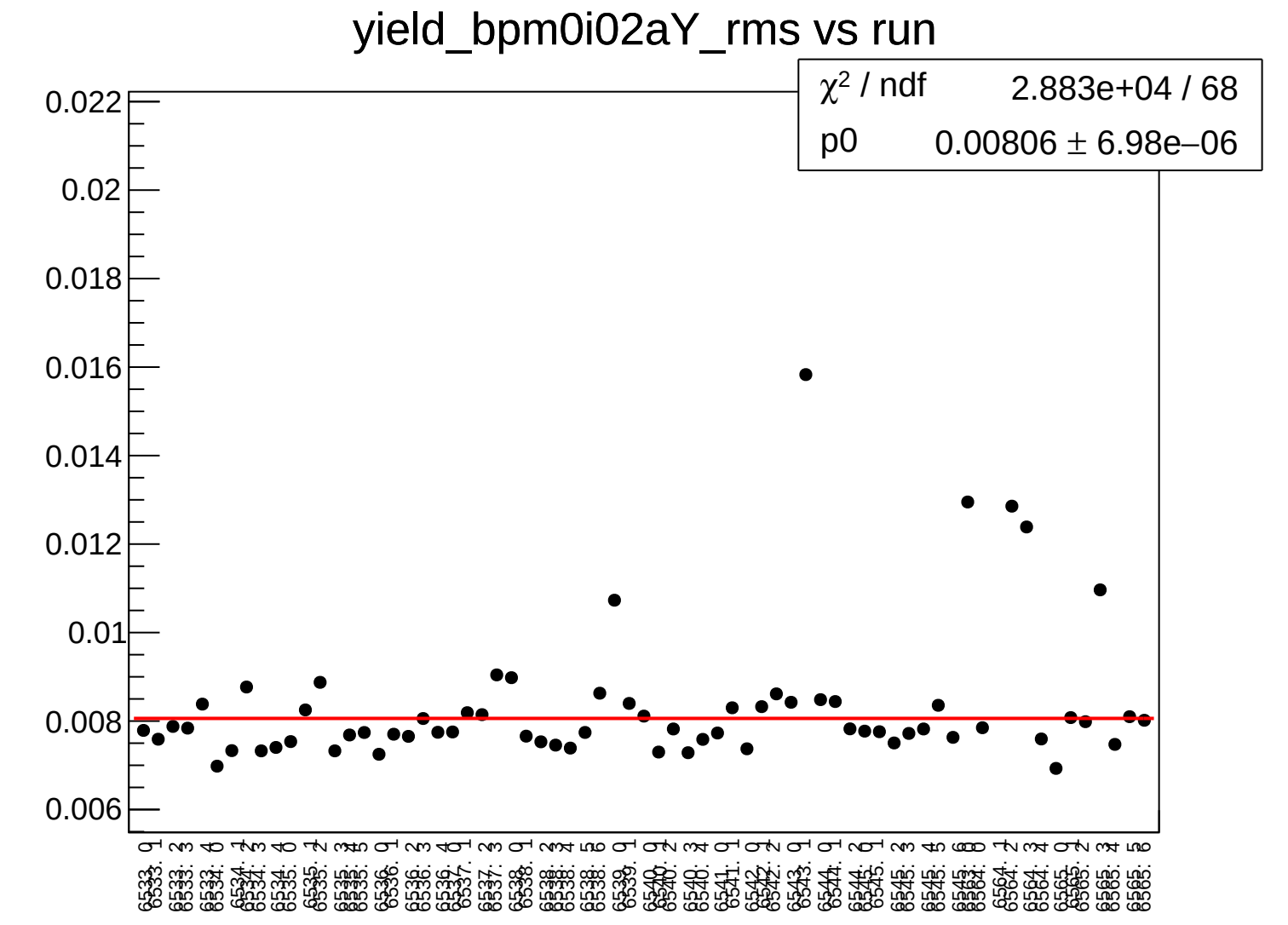

yield_bpm0i02aX_mean vs run
χ² / ndf 1.353e+07 / 68
p0 1.617 ± 1.295e−05
pull
Entries 69
Mean −715.8
Std Dev 748.5

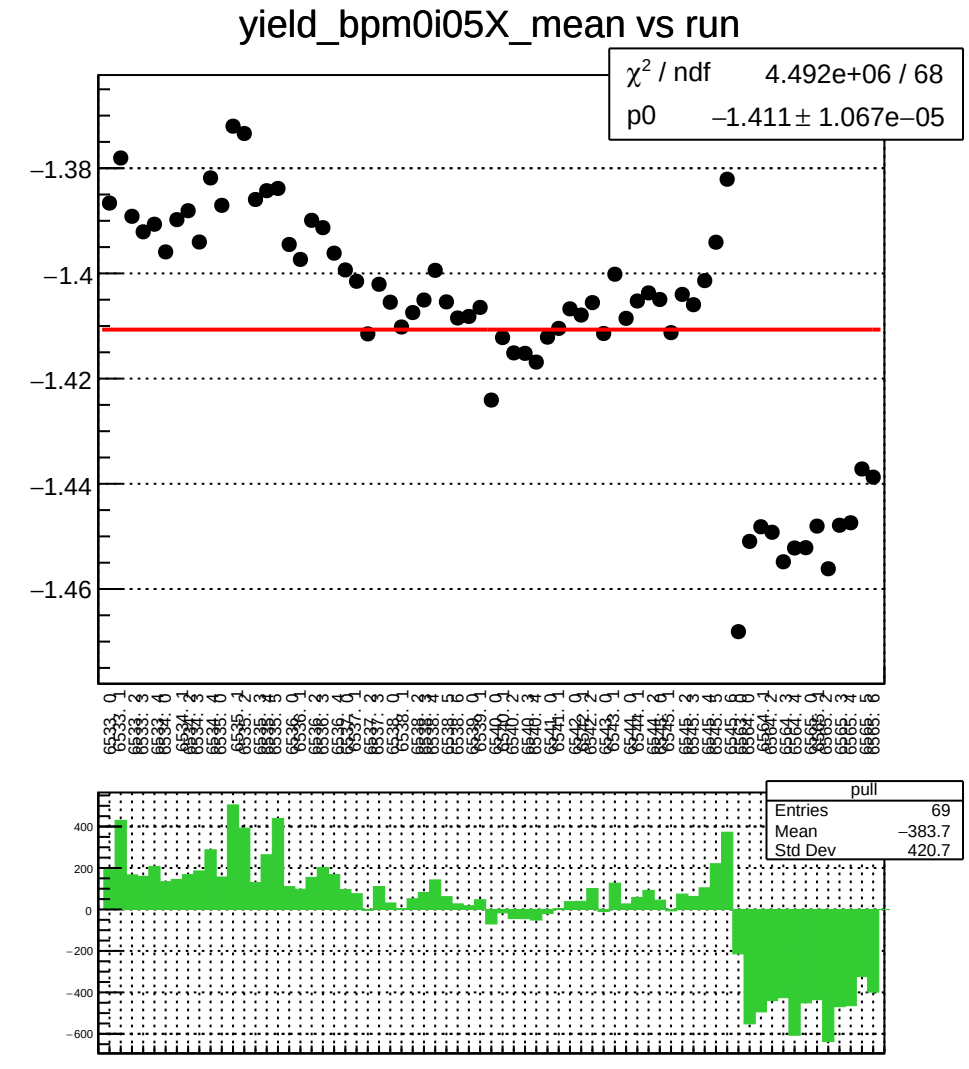

pull1D
Entries 69
Mean 0
Std Dev 0

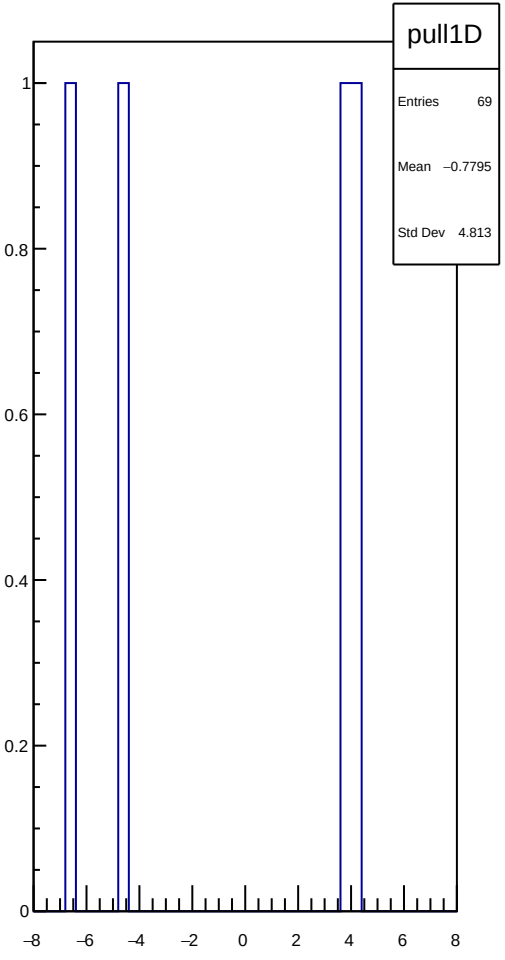

yield_bpm0i02aX_rms vs run
χ² / ndf 1.513e+04 / 68
p0 0.01063 ± 9.155e–06
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008

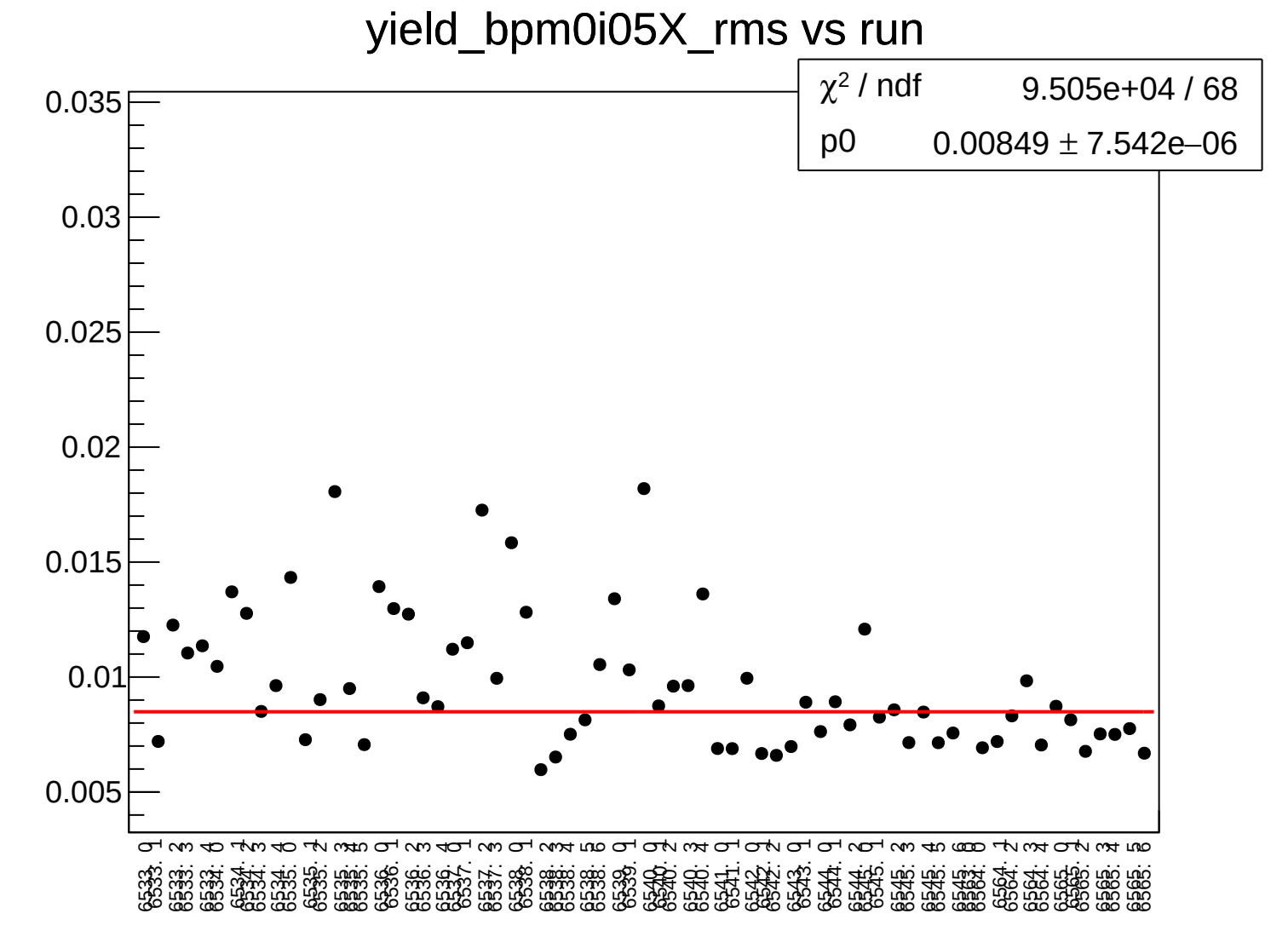

yield_bpm0i02aY_mean vs run
χ² / ndf 2.258e+06 / 68
p0 −1.327 ± 9.871e−06
−1.29
−1.3
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
pull
Entries 69
Mean −763.2
Std Dev 786.4
400
300
200
100
0
−100
−200
−300

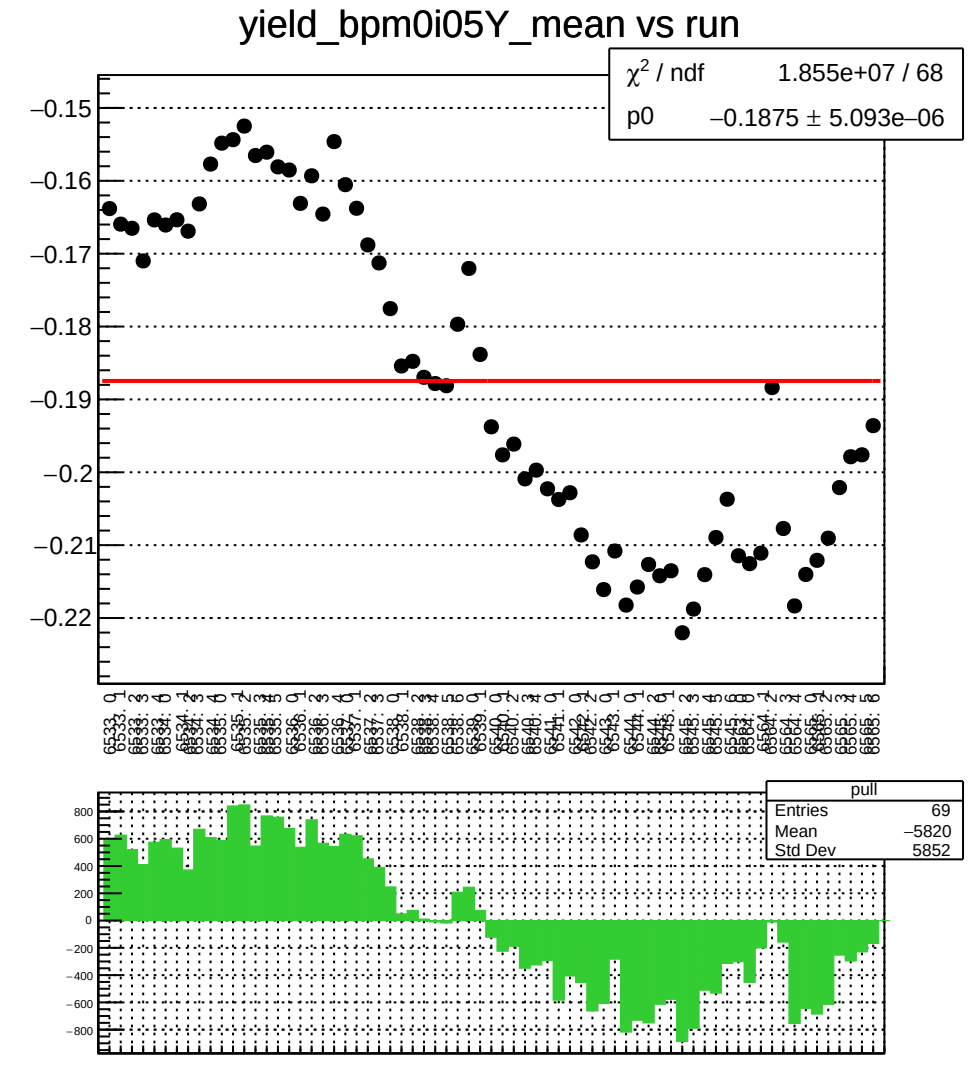

pull1D
Entries 69
Mean 2.72
Std Dev 2.979
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

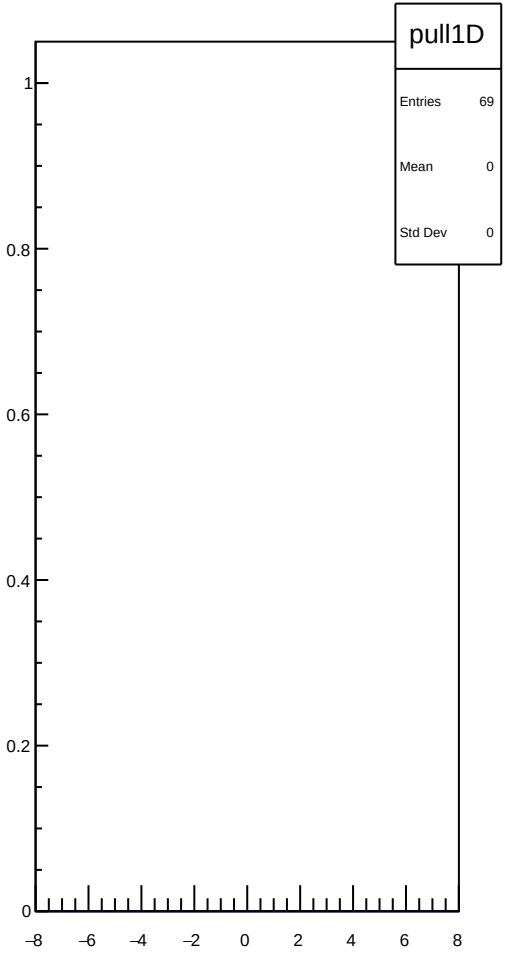

yield_bpm0i02aY_rms vs run
χ² / ndf 2.883e+04 / 68
p0 0.00806 ± 6.98e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

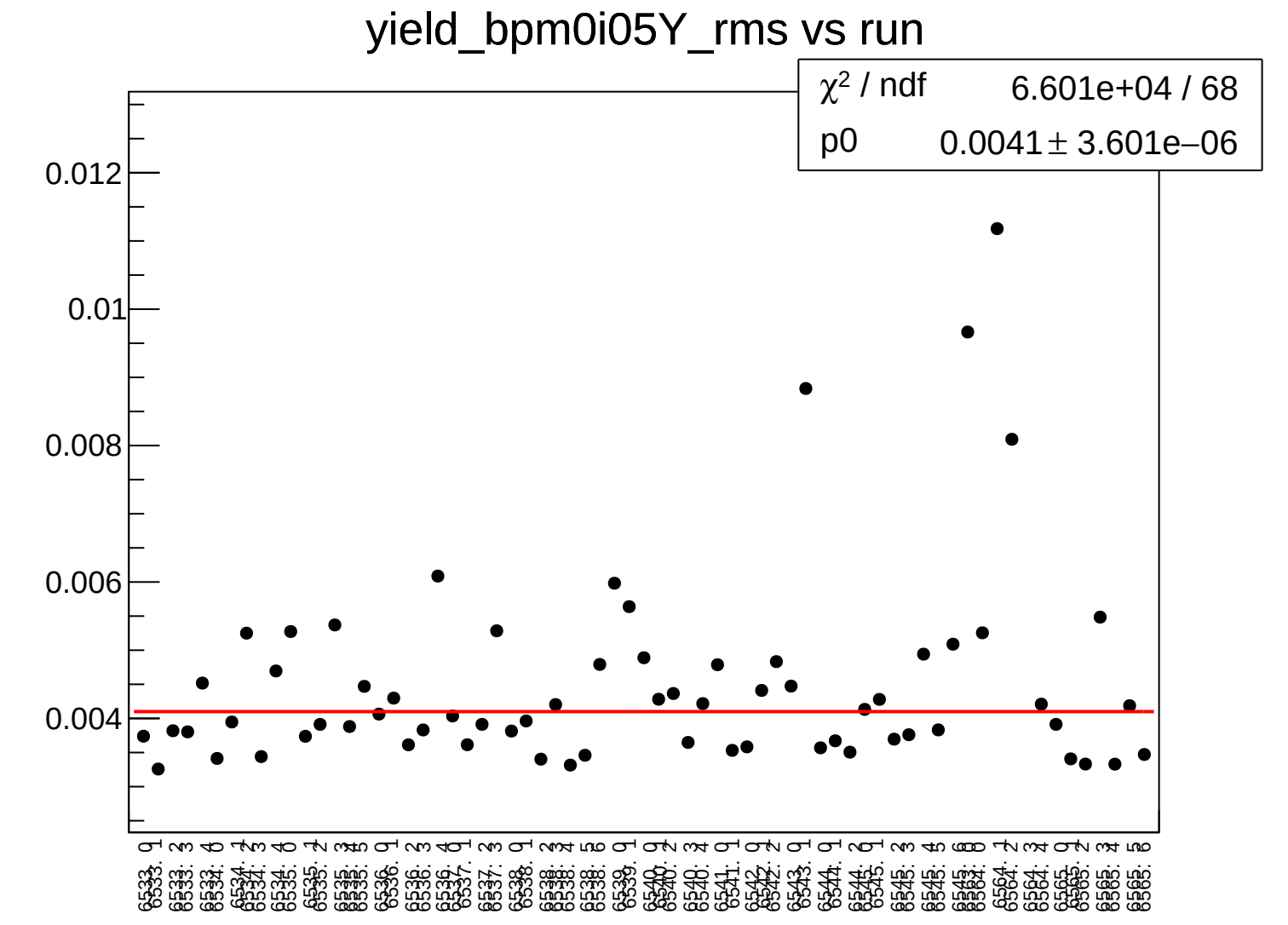

yield_bpm0i05X_mean vs run
χ² / ndf 4.492e+06 / 68
p0 −1.411 ± 1.067e−05
−1.38
−1.4
−1.42
−1.44
−1.46
pull
Entries 69
Mean −383.7
Std Dev 420.7
400
200
0
−200
−400
−600

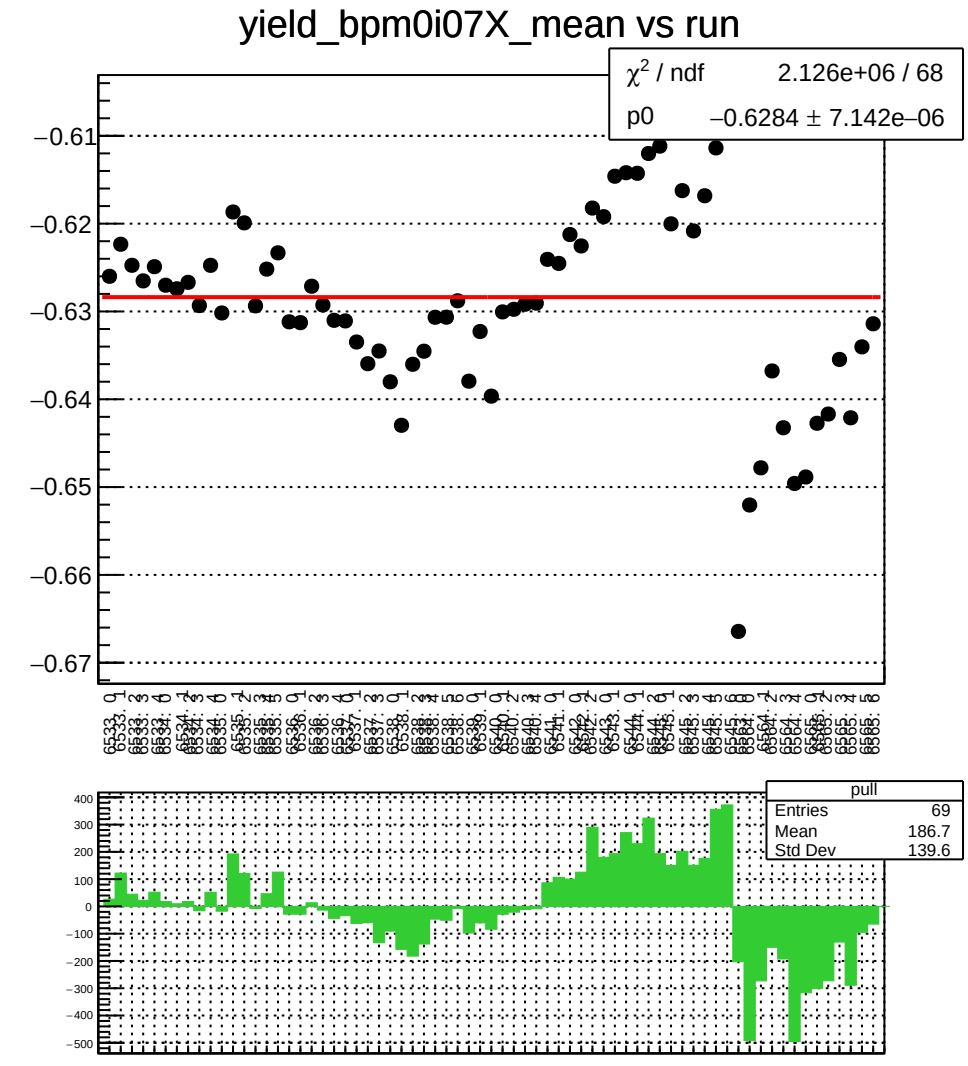

pull1D
Entries 69
Mean −0.7795
Std Dev 4.813
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

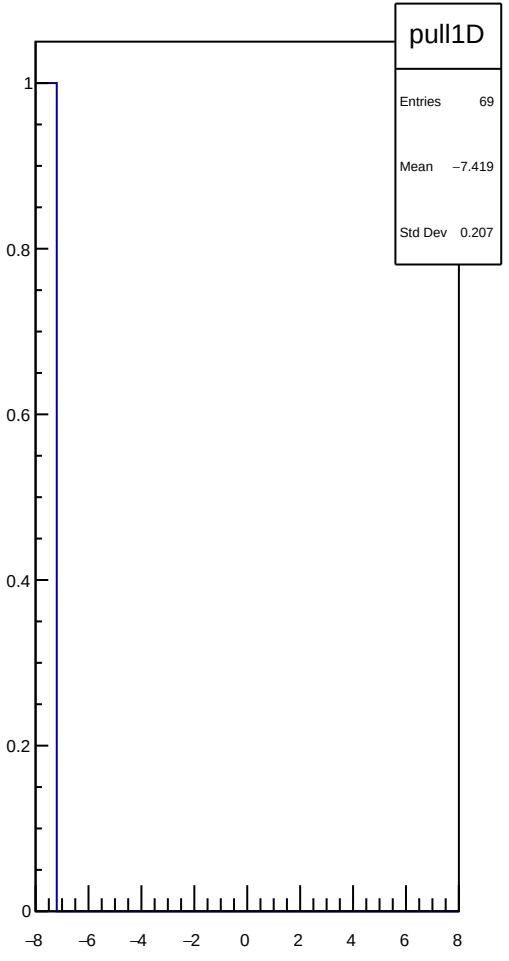

yield_bpm0i05X_rms vs run
χ² / ndf 9.505e+04 / 68
p0 0.00849 ± 7.542e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

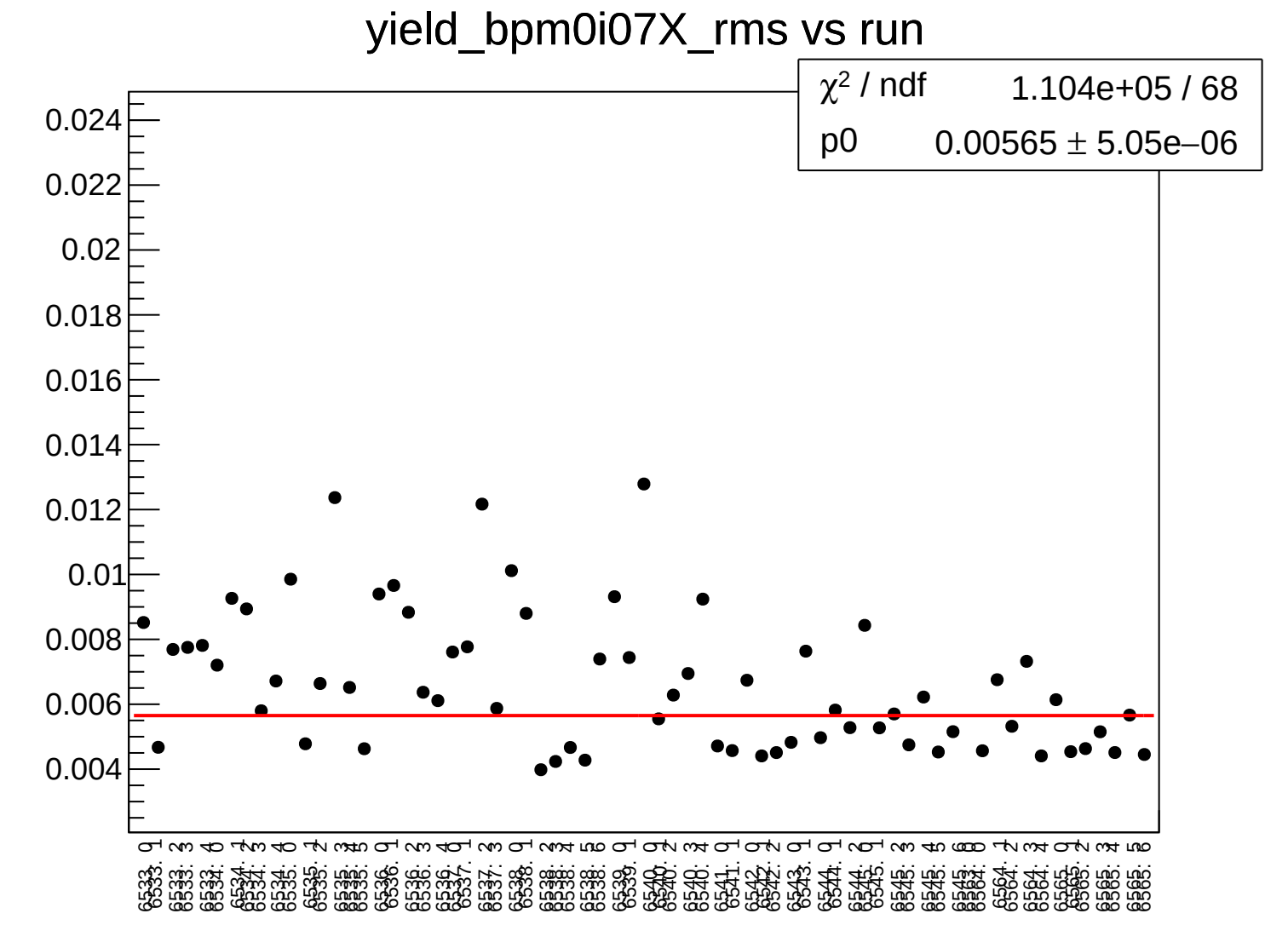

yield_bpm0i05Y_mean vs run
χ² / ndf 1.855e+07 / 68
p0 −0.1875 ± 5.093e−06
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
−0.21
−0.22
pull
Entries 69
Mean −5820
Std Dev 5852
800
600
400
200
0
−200
−400
−600
−800

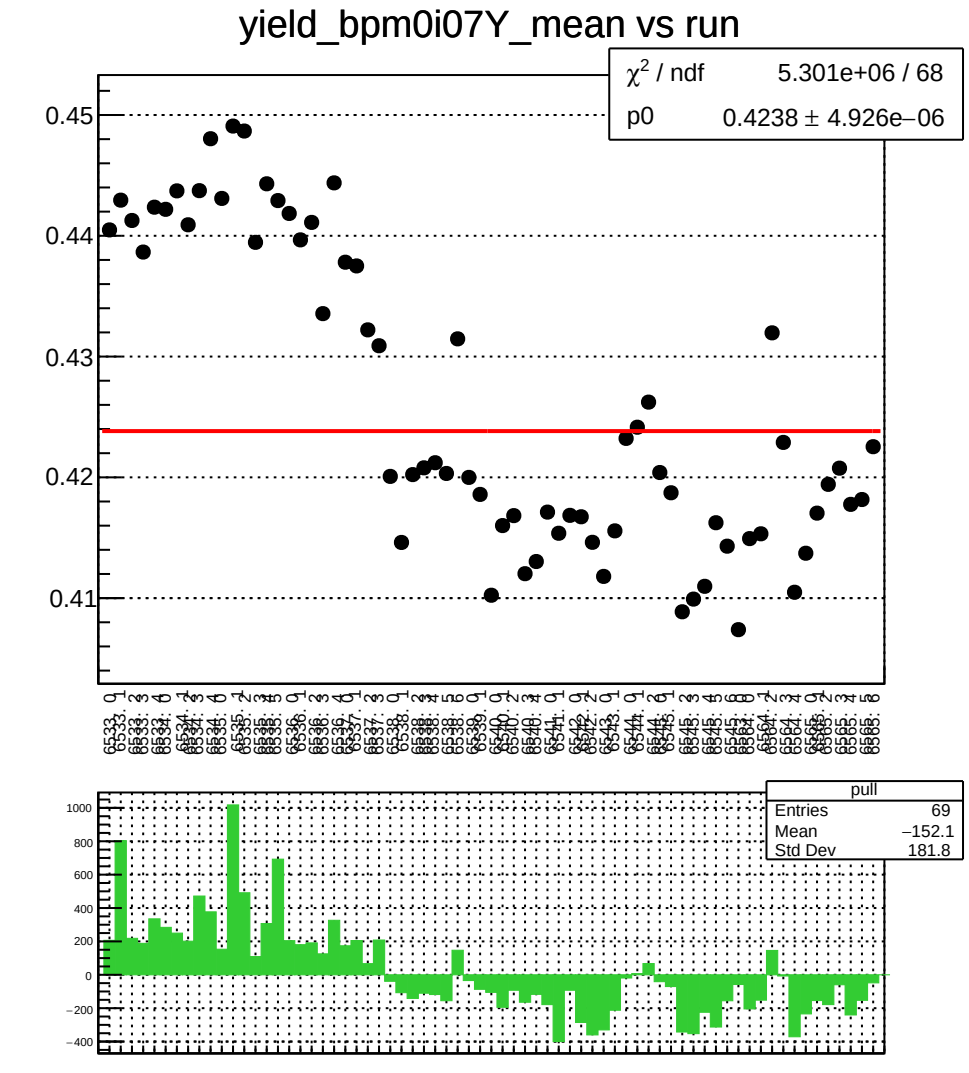

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

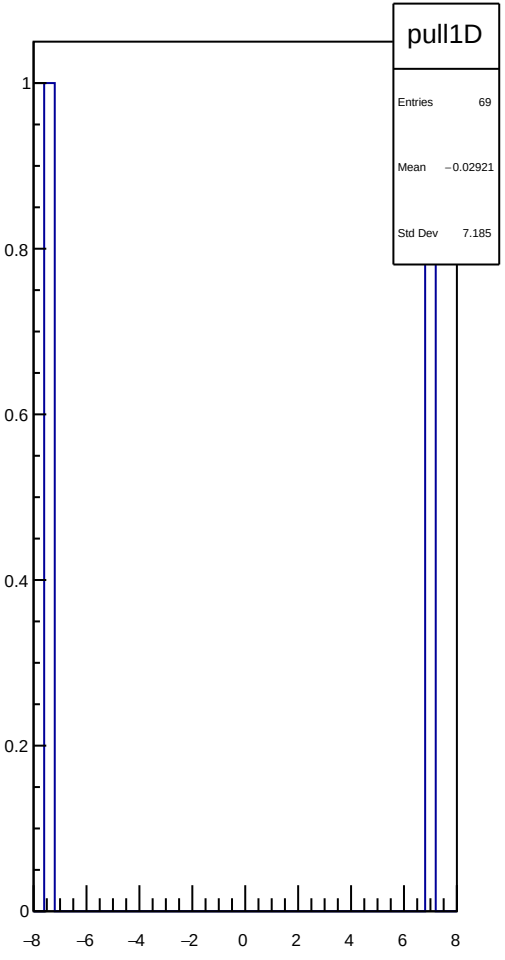

yield_bpm0i05Y_rms vs run
χ² / ndf 6.601e+04 / 68
p0 0.0041 ± 3.601e−06
0.012
0.01
0.008
0.006
0.004

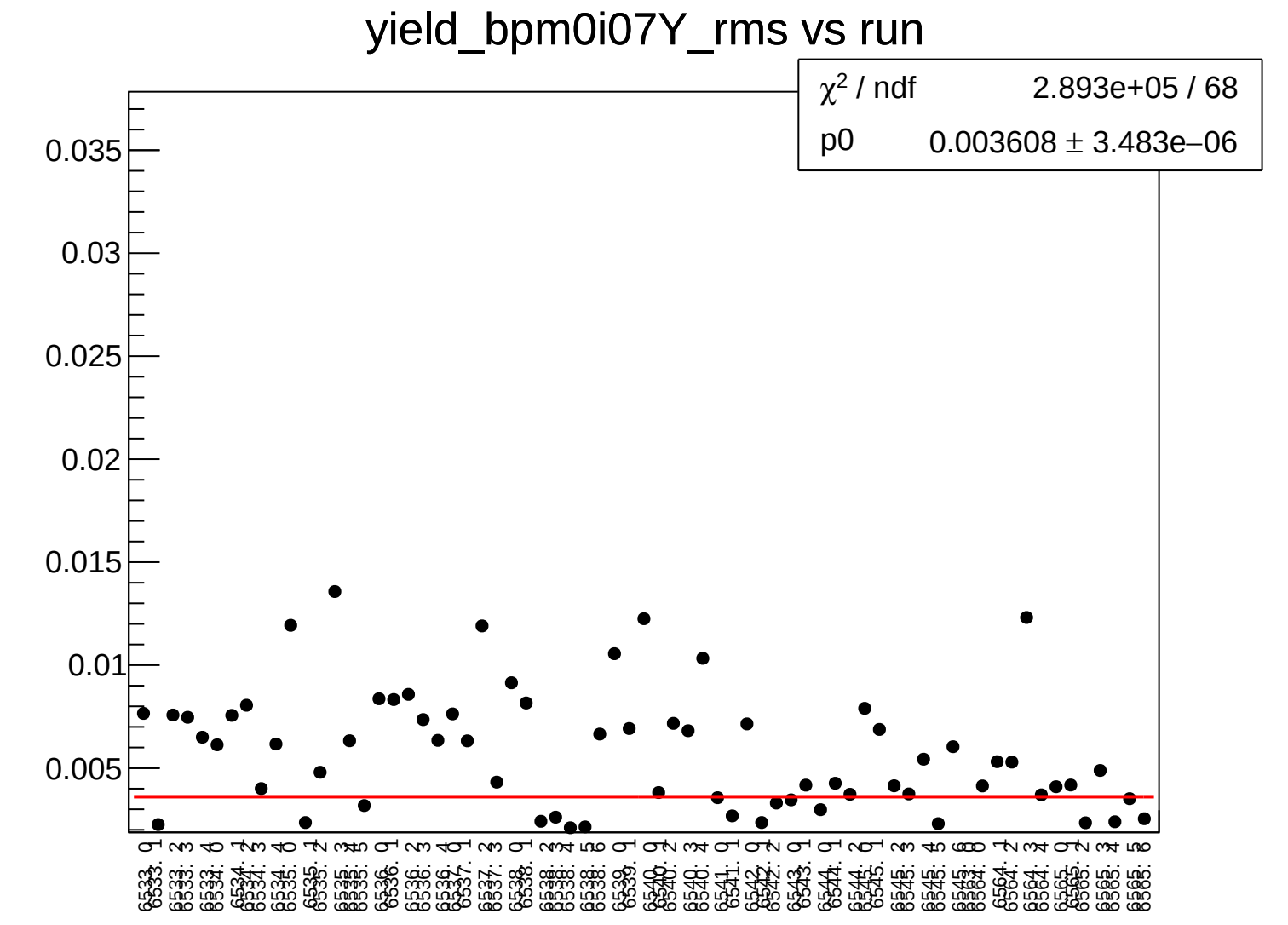

yield_bpm0i07X_mean vs run
χ² / ndf 2.126e+06 / 68
p0 −0.6284 ± 7.142e−06
−0.61
−0.62
−0.63
−0.64
−0.65
−0.66
−0.67
pull
Entries 69
Mean 186.7
Std Dev 139.6
400
300
200
100
0
−100
−200
−300
−400
−500

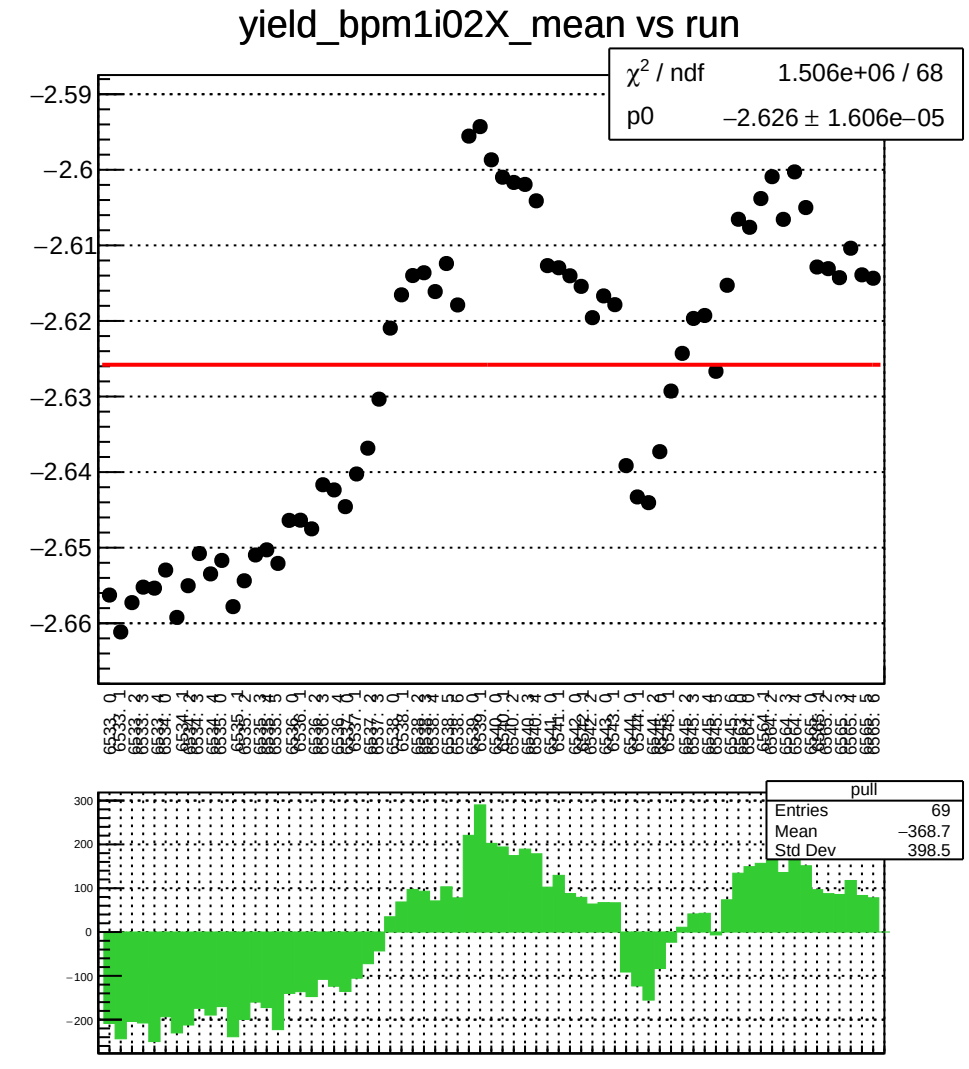

pull1D
Entries 69
Mean −7.419
Std Dev 0.207
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

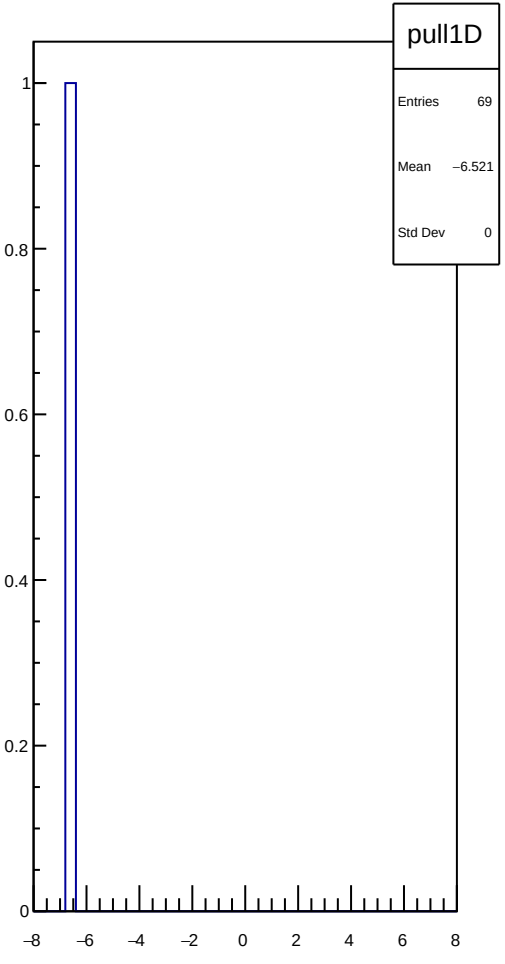

yield_bpm0i07X_rms vs run
χ² / ndf 1.104e+05 / 68
p0 0.00565 ± 5.05e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

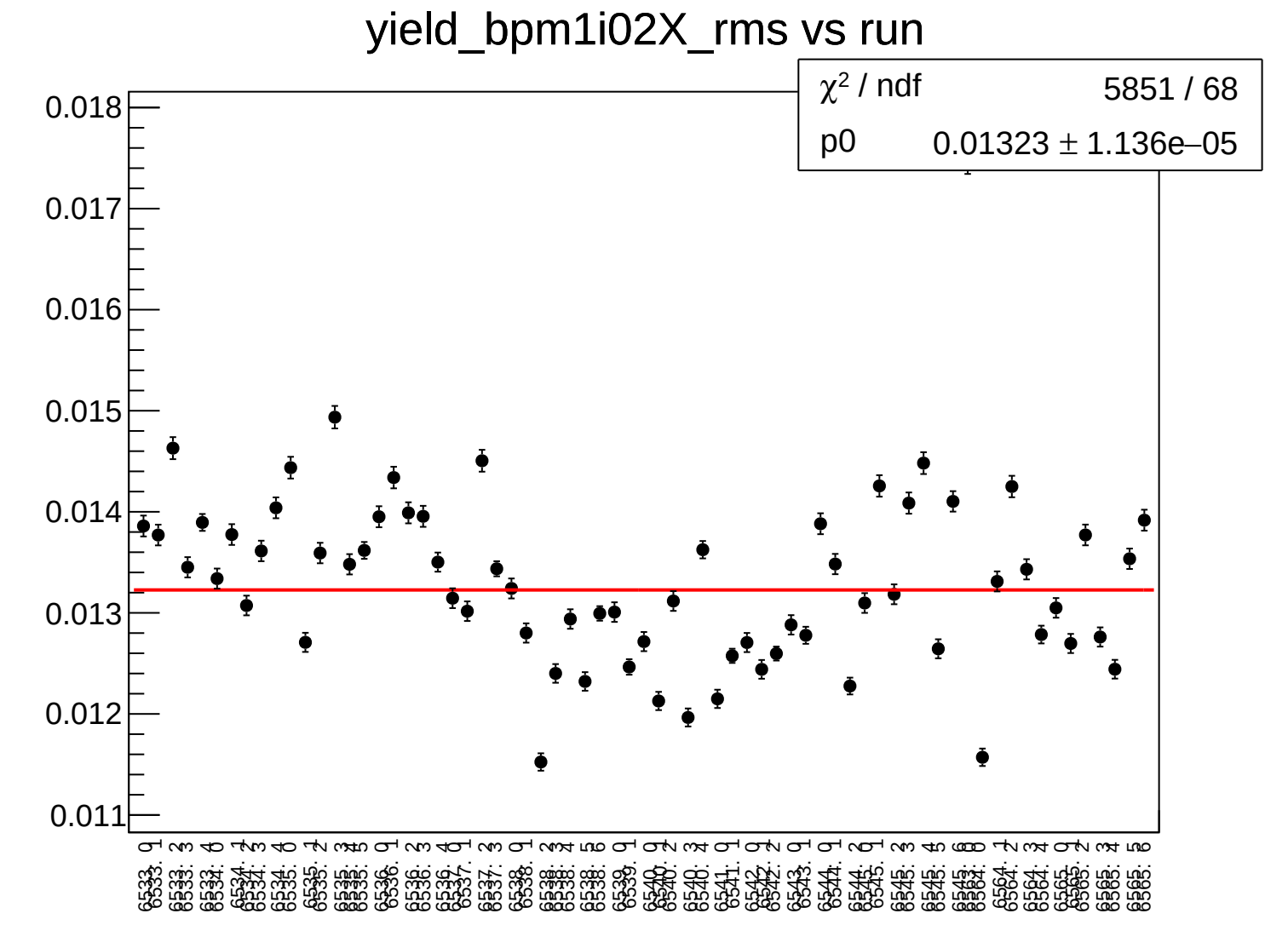

yield_bpm0i07Y_mean vs run
χ² / ndf 5.301e+06 / 68
p0 0.4238 ± 4.926e−06
0.45
0.44
0.43
0.42
0.41
pull
Entries 69
Mean −152.1
Std Dev 181.8
1000
800
600
400
200
0
−200
−400

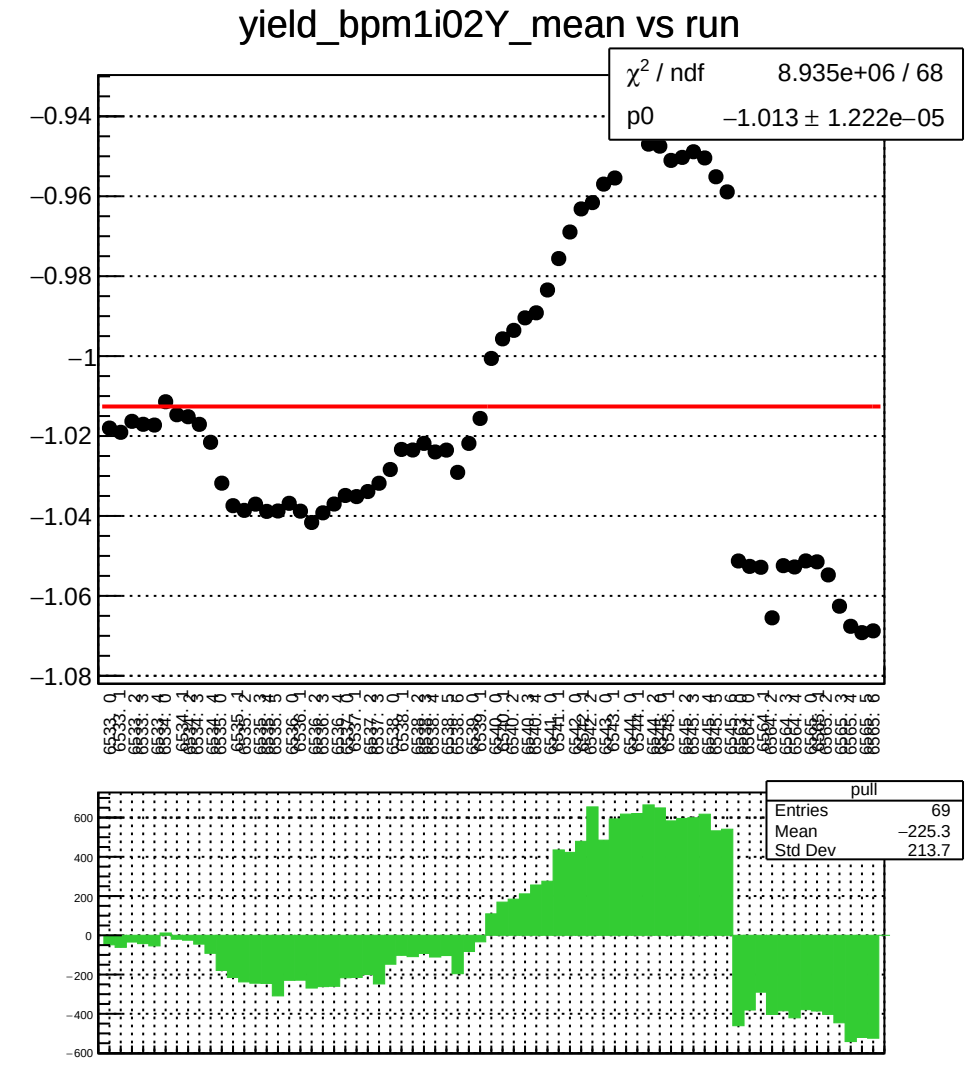

pull1D
Entries 69
Mean −0.02921
Std Dev 7.185
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

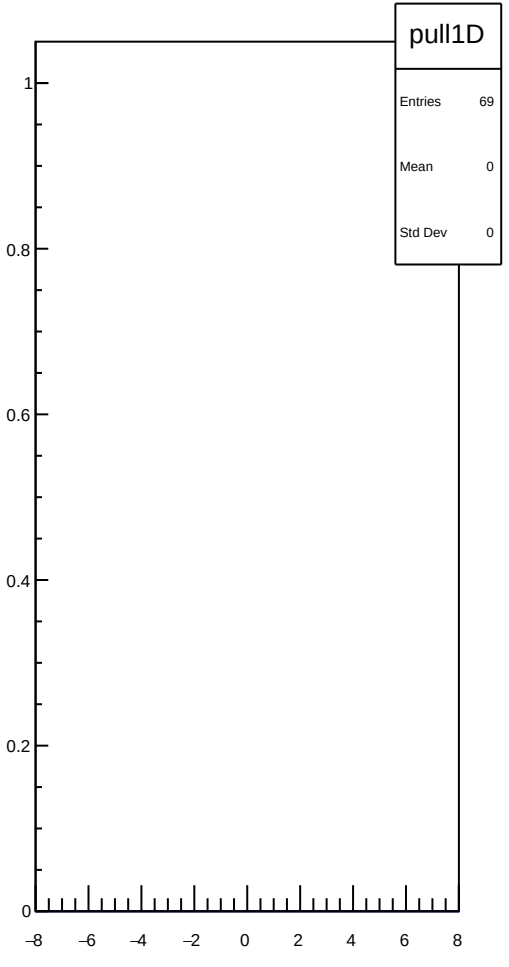

yield_bpm0i07Y_rms vs run
χ² / ndf 2.893e+05 / 68
p0 0.003608 ± 3.483e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

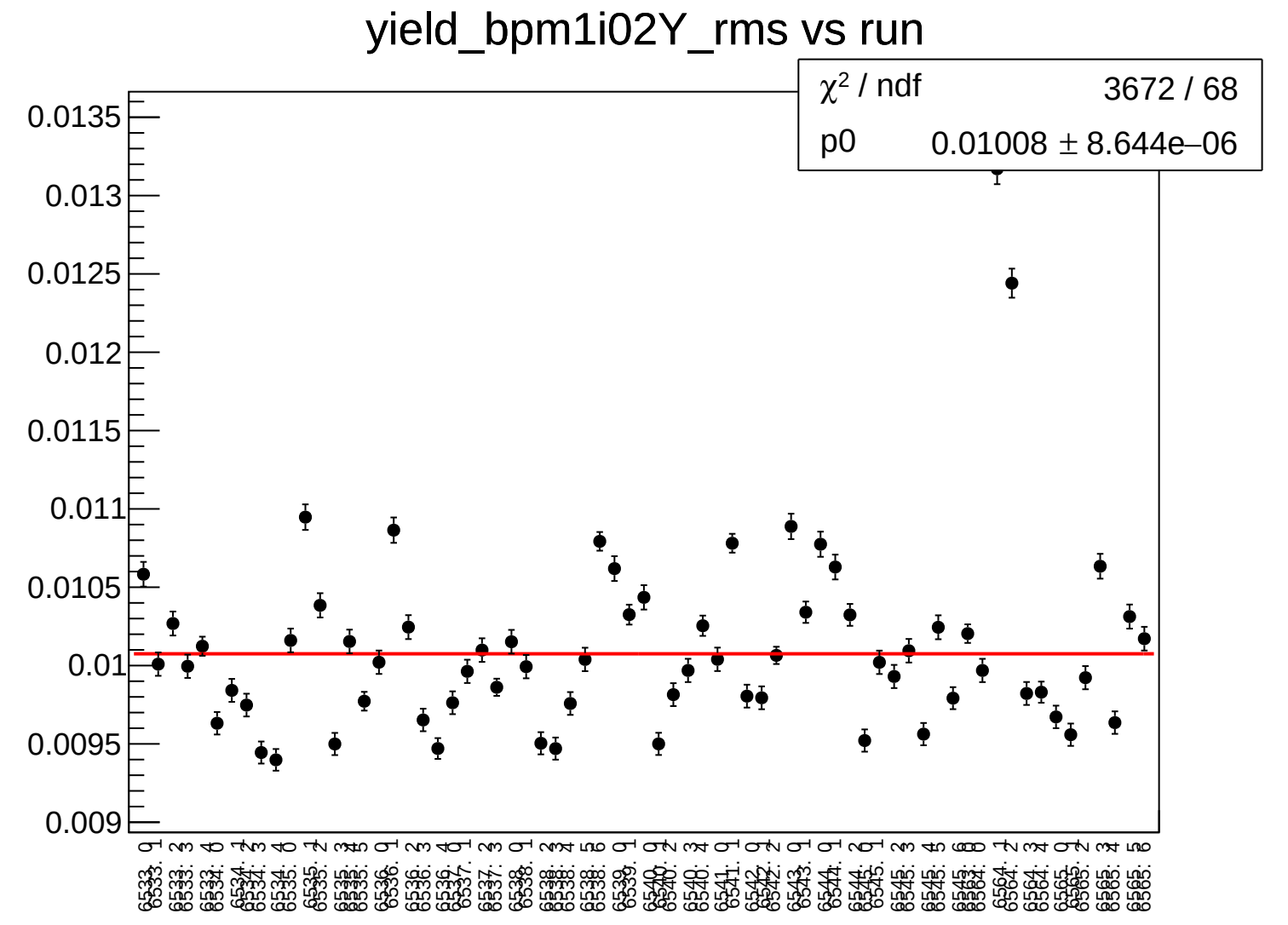

yield_bpm1i02X_mean vs run
χ² / ndf 1.506e+06 / 68
p0 −2.626 ± 1.606e−05
−2.59
−2.6
−2.61
−2.62
−2.63
−2.64
−2.65
−2.66
pull
Entries 69
Mean −368.7
Std Dev 398.5
300
200
100
0
−100
−200

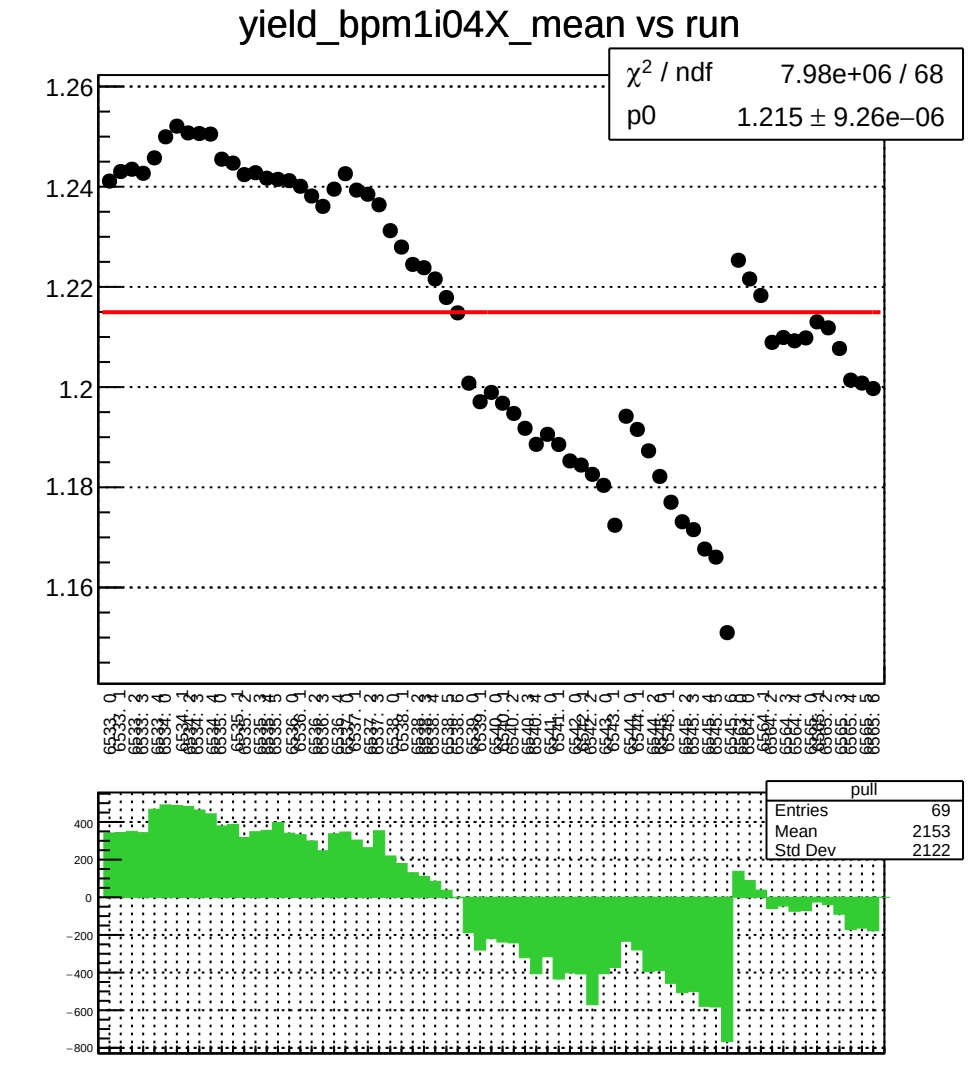

pull1D
Entries 69
Mean −6.521
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

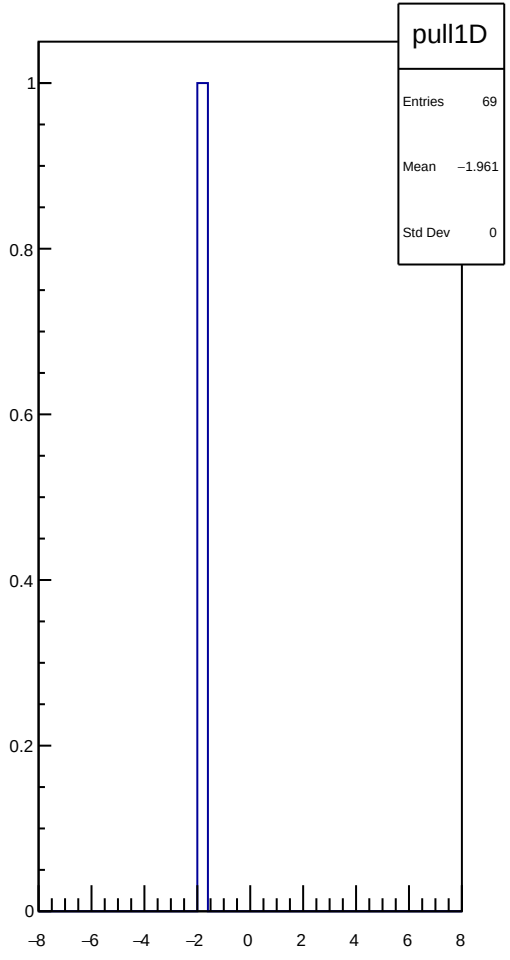

yield_bpm1i02X_rms vs run
χ² / ndf 5851 / 68
p0 0.01323 ± 1.136e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

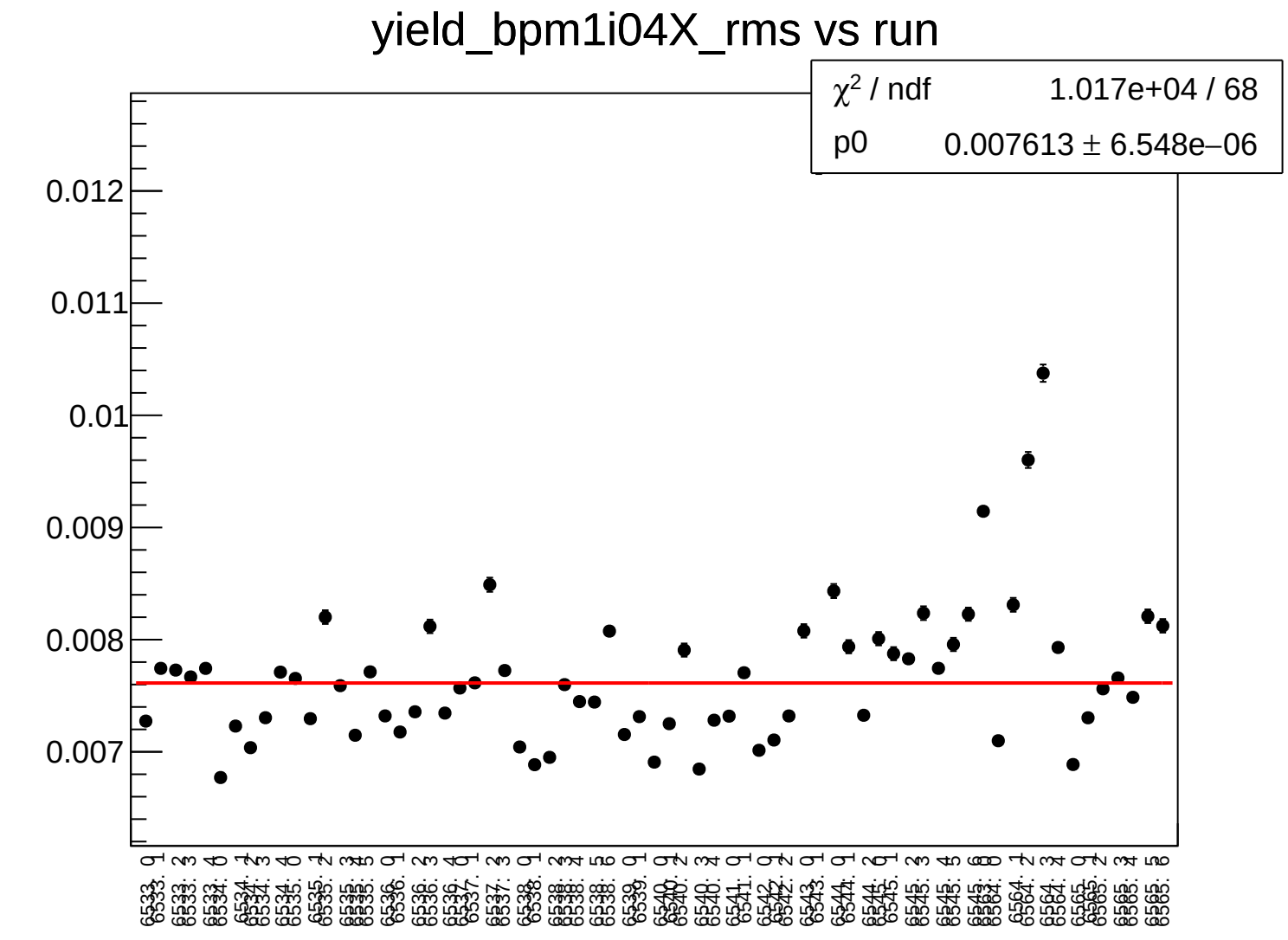

yield_bpm1i02Y_mean vs run
$\chi^2$ / ndf 8.935e+06 / 68
p0 −1.013 ± 1.222e−05
−0.94
−0.96
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 69
Mean −225.3
Std Dev 213.7
600
400
200
0
−200
−400
−600

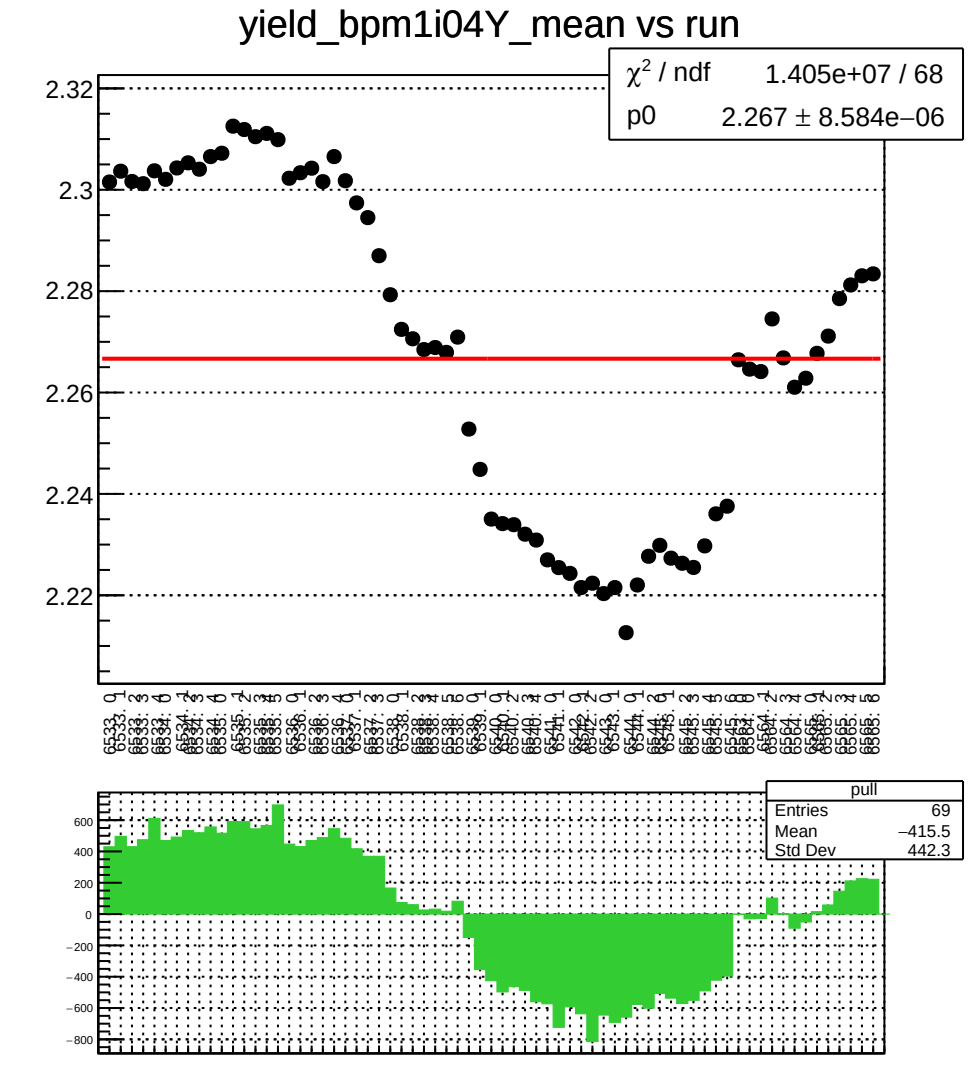

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

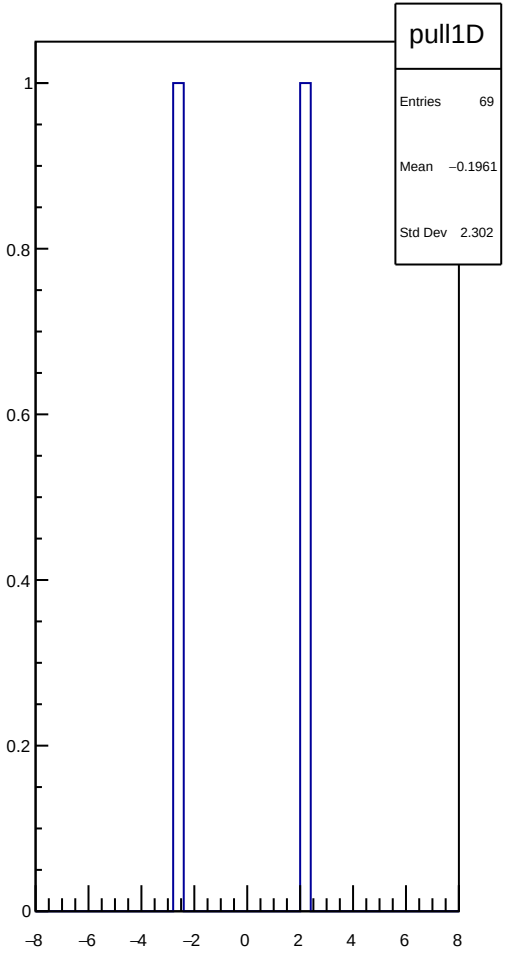

yield_bpm1i02Y_rms vs run
χ² / ndf 3672 / 68
p0 0.01008 ± 8.644e–06
0.0135
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

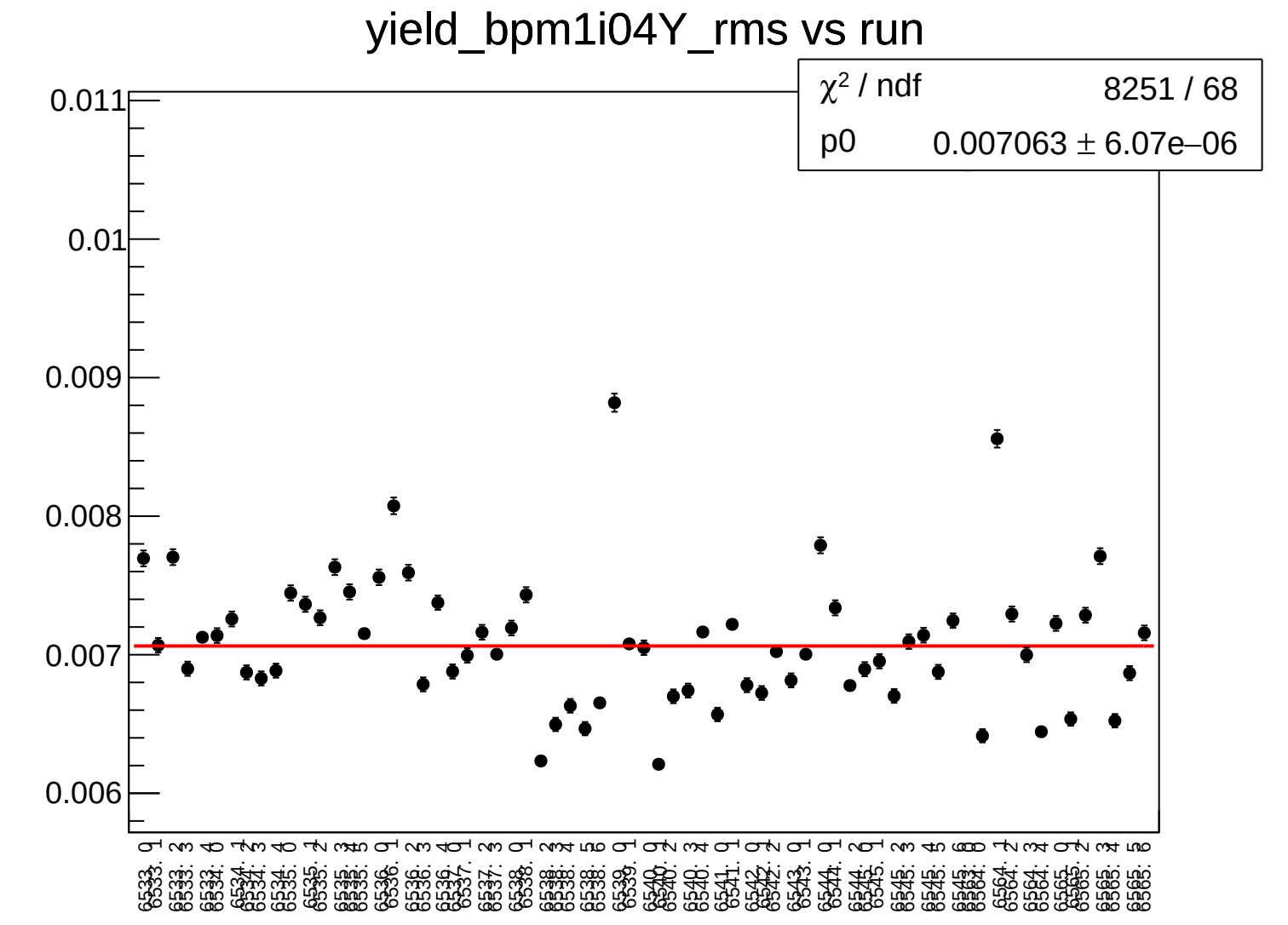

yield_bpm1i04X_mean vs run
χ² / ndf 7.98e+06 / 68
p0 1.215 ± 9.26e−06
1.26
1.24
1.22
1.2
1.18
1.16
pull
Entries 69
Mean 2153
Std Dev 2122
400
200
0
−200
−400
−600
−800

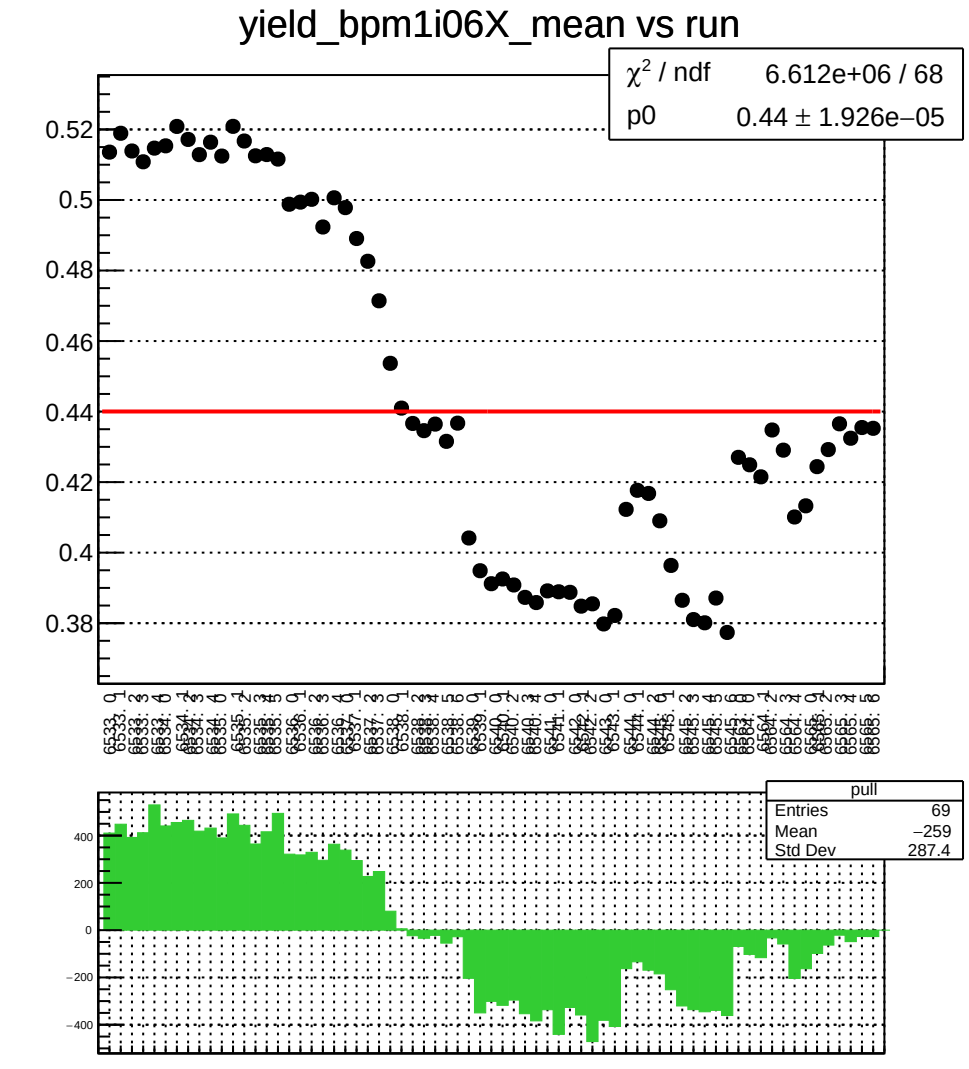

pull1D
Entries 69
Mean −1.961
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

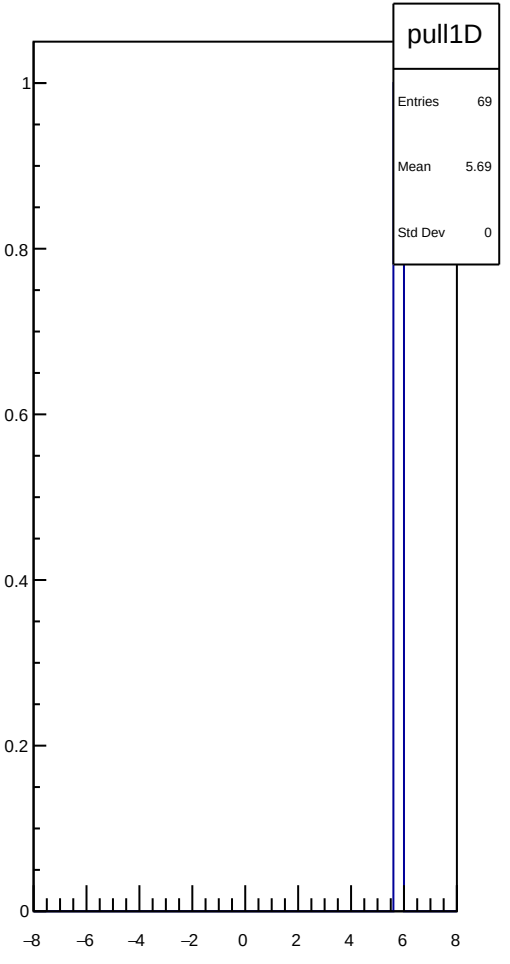

yield_bpm1i04X_rms vs run
χ² / ndf 1.017e+04 / 68
p0 0.007613 ± 6.548e−06
0.012
0.011
0.01
0.009
0.008
0.007

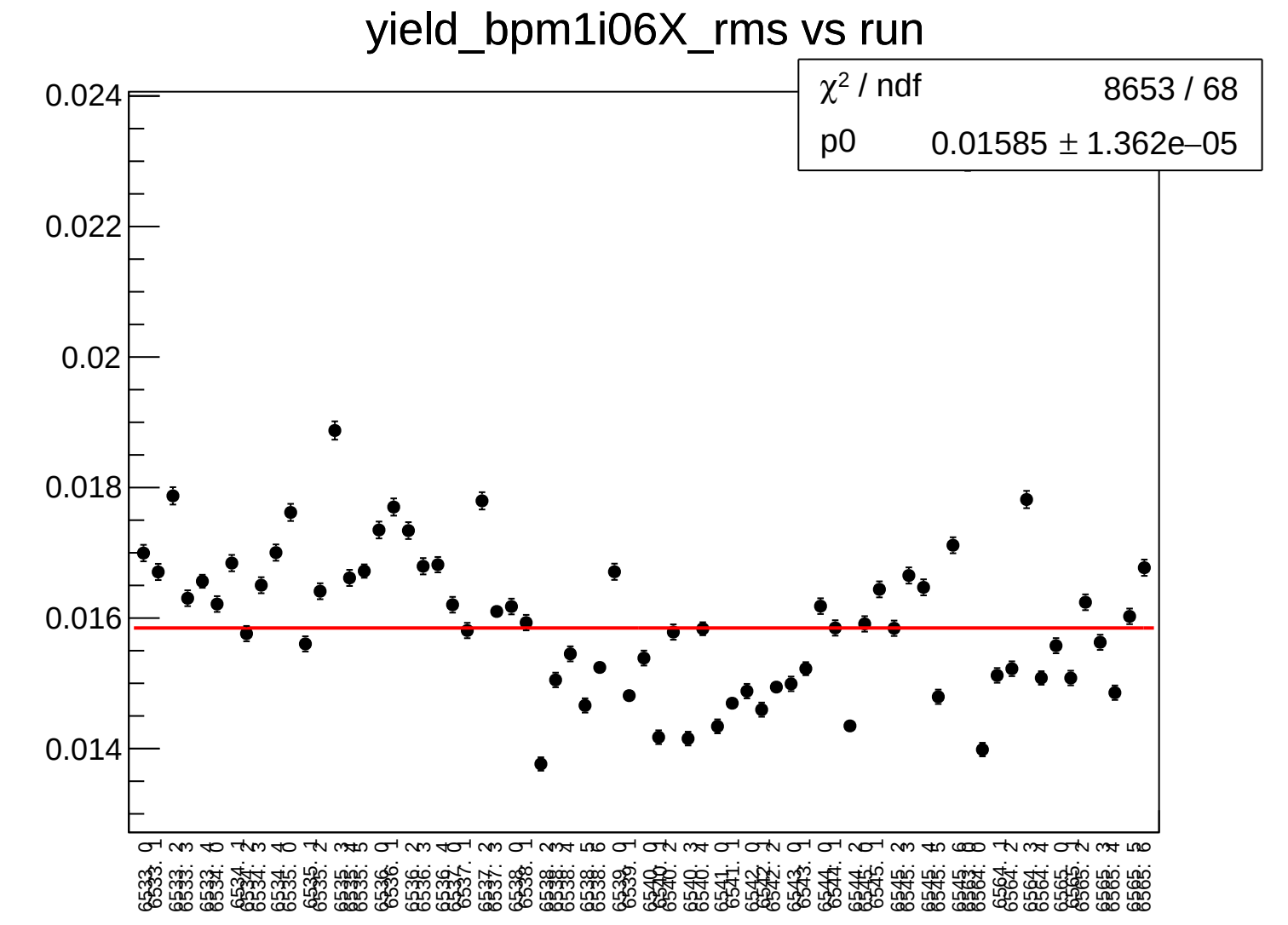

yield_bpm1i04Y_mean vs run
χ² / ndf 1.405e+07 / 68
p0 2.267 ± 8.584e−06
2.32
2.3
2.28
2.26
2.24
2.22
pull
Entries 69
Mean −415.5
Std Dev 442.3
600
400
200
0
−200
−400
−600
−800

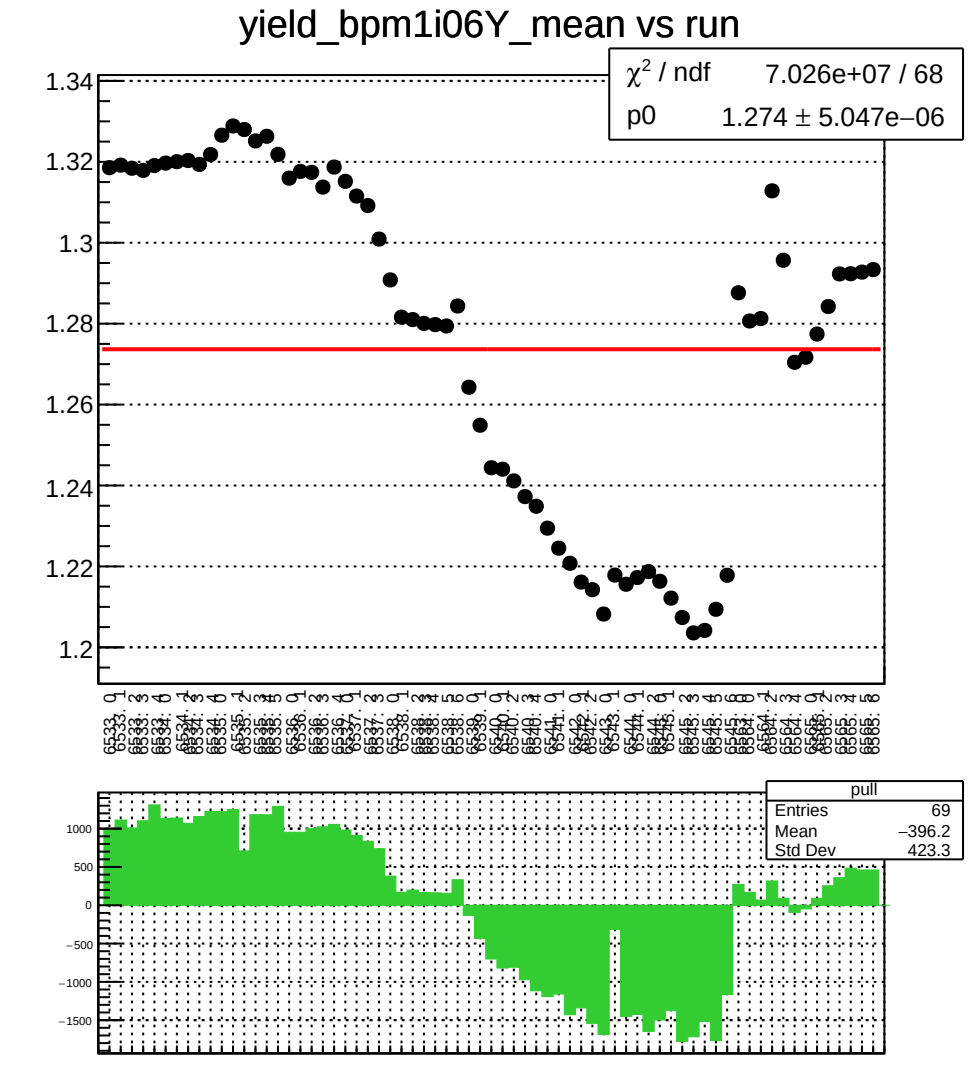

pull1D
Entries 69
Mean −0.1961
Std Dev 2.302
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

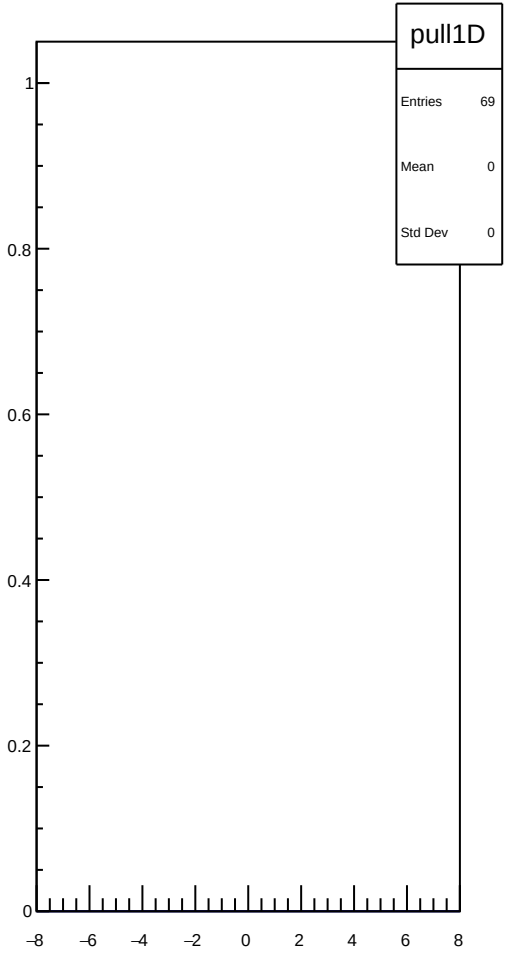

yield_bpm1i04Y_rms vs run
χ² / ndf 8251 / 68
p0 0.007063 ± 6.07e–06
0.011
0.01
0.009
0.008
0.007
0.006

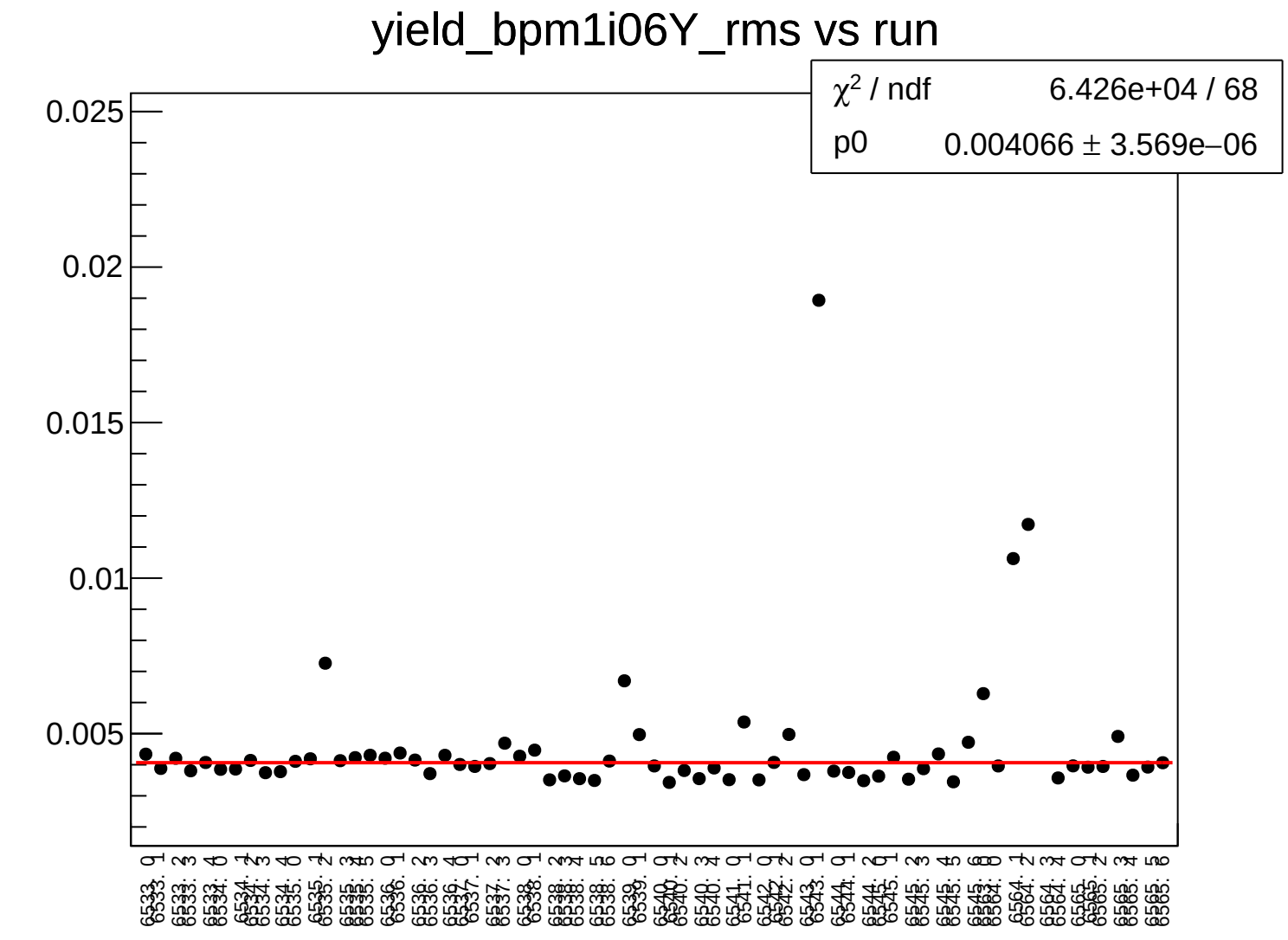

yield_bpm1i06X_mean vs run
χ² / ndf 6.612e+06 / 68
p0 0.44 ± 1.926e−05
0.52
0.5
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 69
Mean −259
Std Dev 287.4
400
200
0
−200
−400

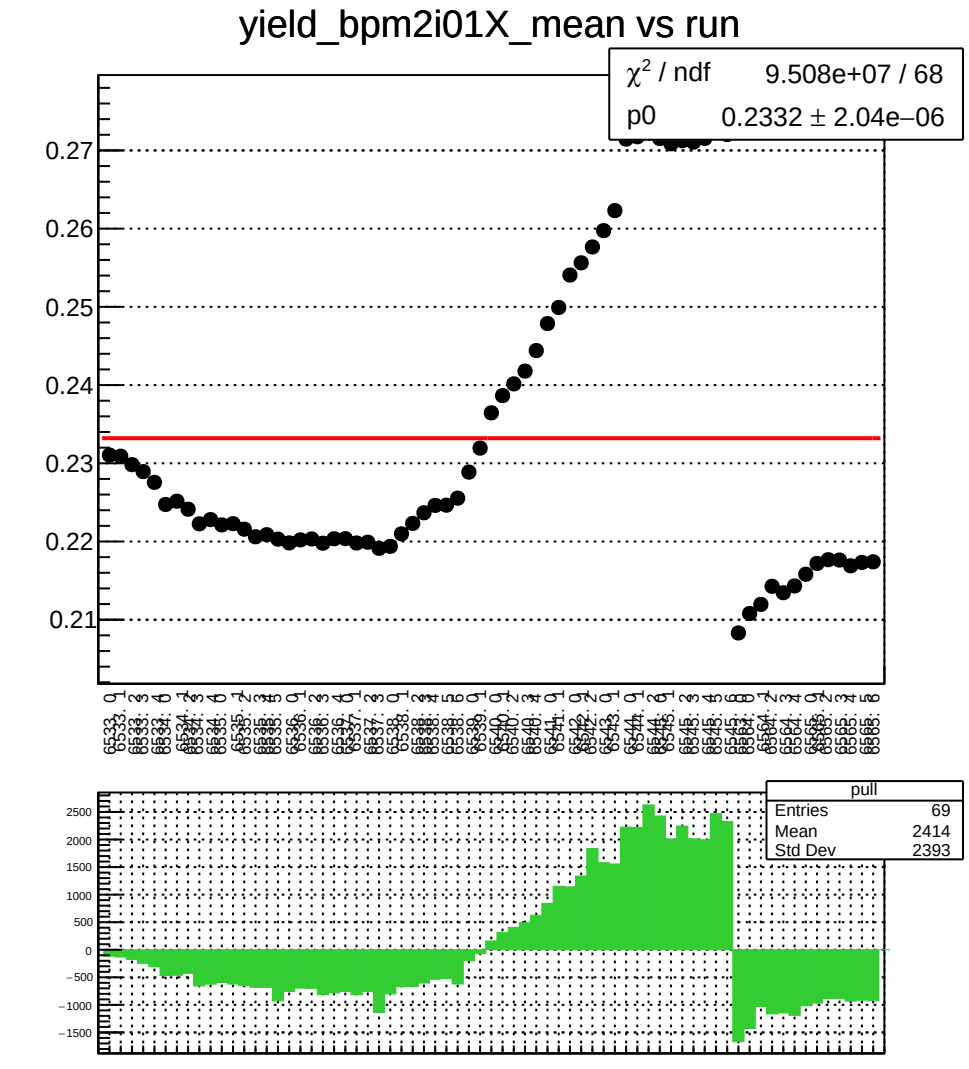

pull1D
Entries 69
Mean 5.69
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

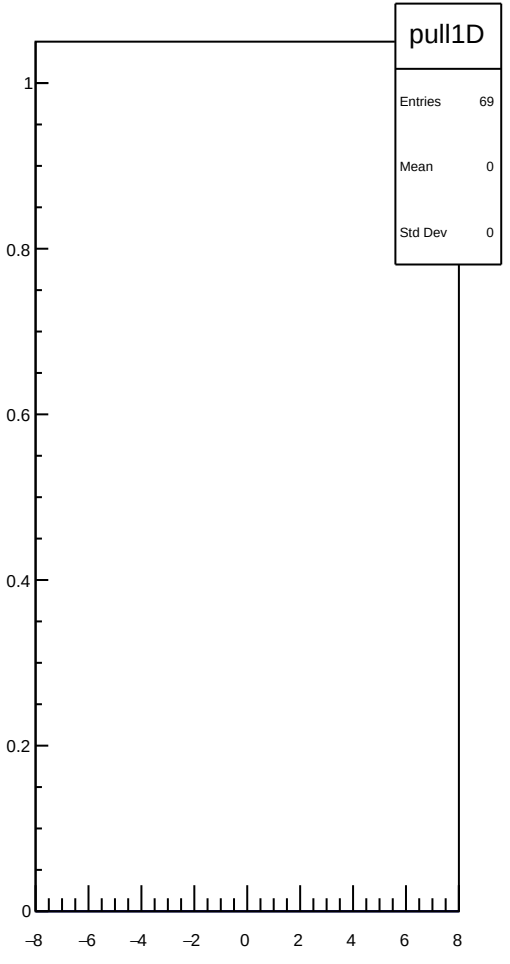

yield_bpm1i06X_rms vs run
χ² / ndf 8653 / 68
p0 0.01585 ± 1.362e–05
0.024
0.022
0.02
0.018
0.016
0.014

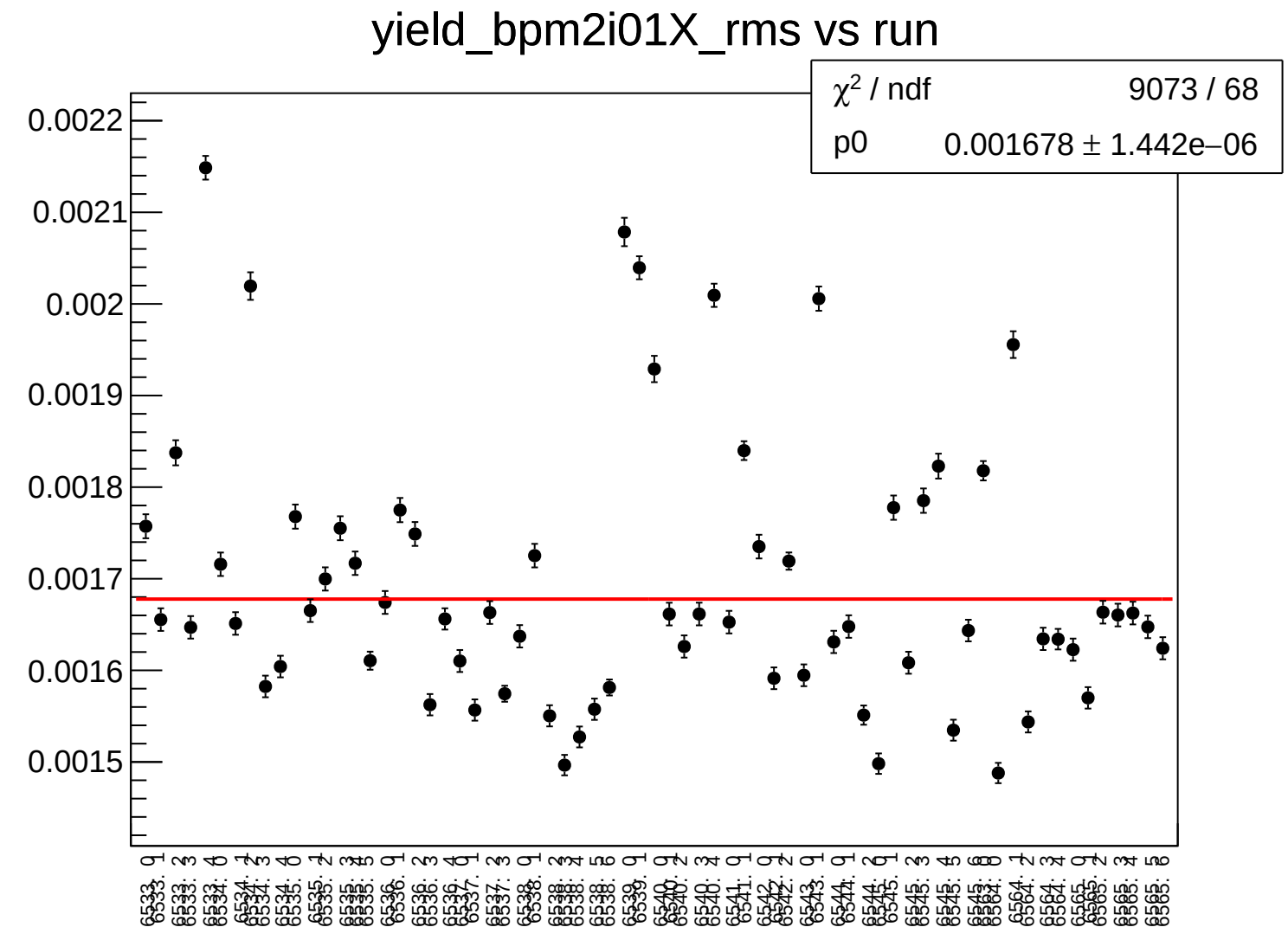

yield_bpm1i06Y_mean vs run
χ² / ndf 7.026e+07 / 68
p0 1.274 ± 5.047e−06
pull
Entries 69
Mean −396.2
Std Dev 423.3

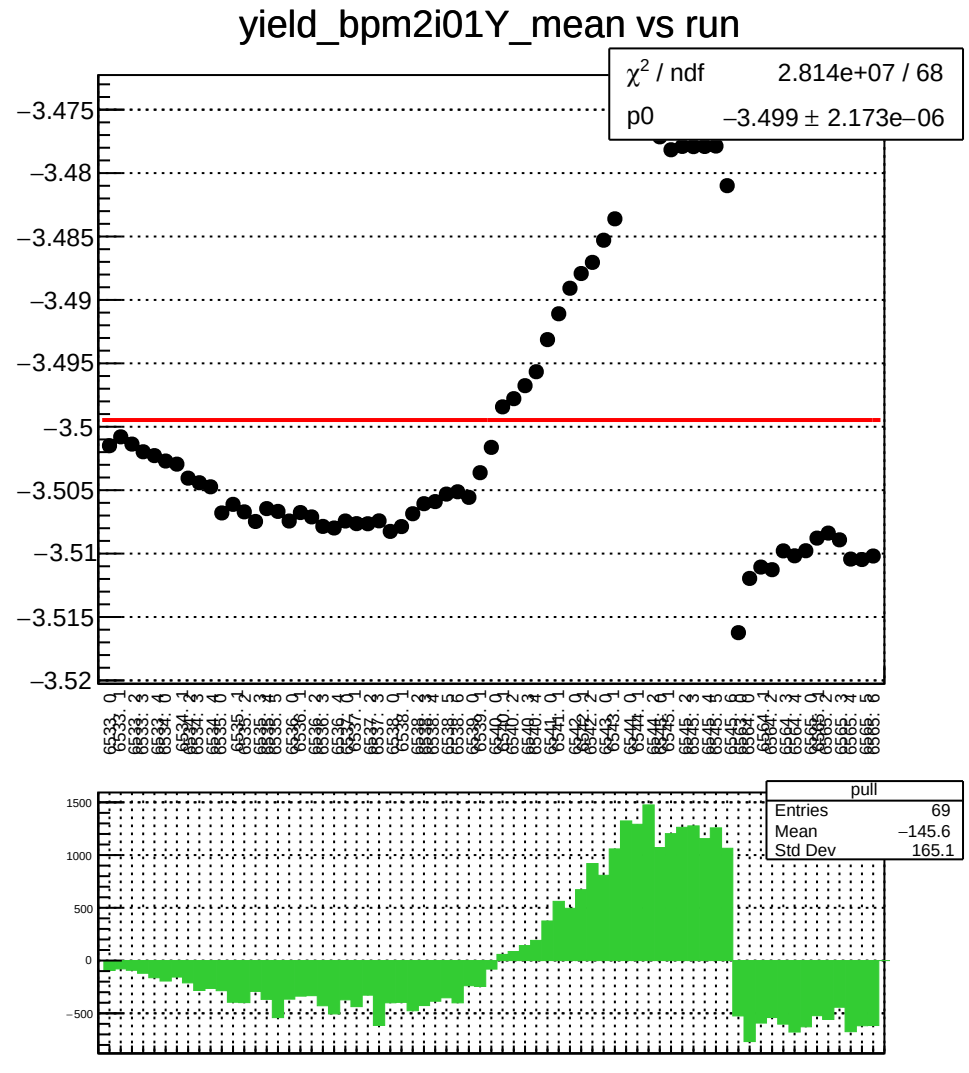

pull1D
Entries 69
Mean 0
Std Dev 0

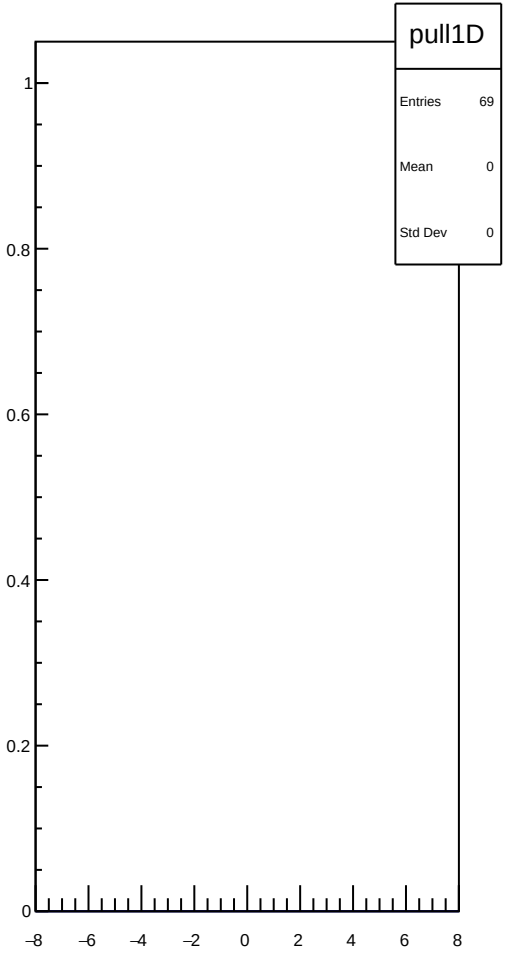

yield_bpm1i06Y_rms vs run
χ² / ndf 6.426e+04 / 68
p0 0.004066 ± 3.569e−06
0.025
0.02
0.015
0.01
0.005

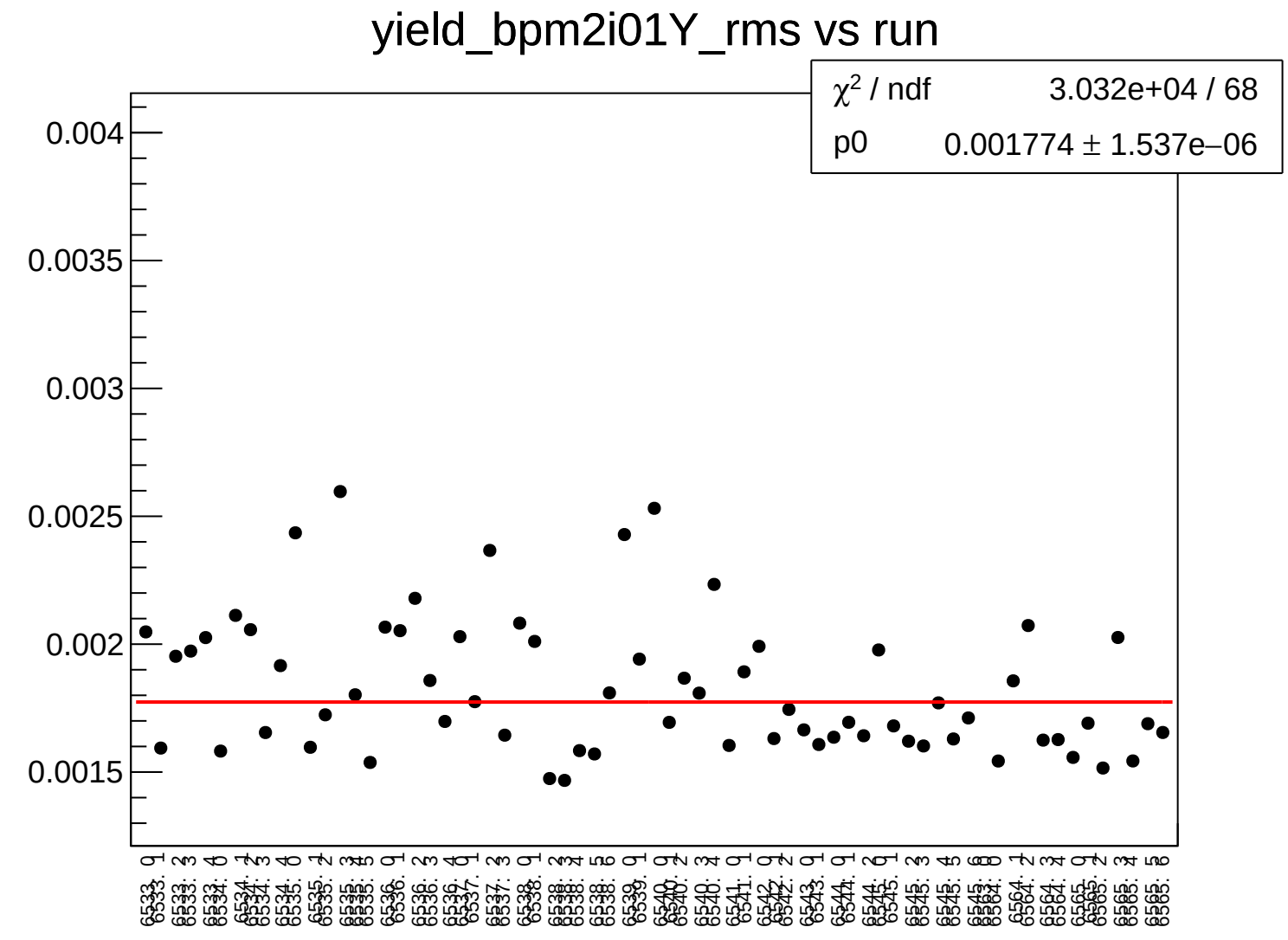

yield_bpm2i01X_mean vs run
χ² / ndf 9.508e+07 / 68
p0 0.2332 ± 2.04e−06
0.27
0.26
0.25
0.24
0.23
0.22
0.21
pull
Entries 69
Mean 2414
Std Dev 2393
2500
2000
1500
1000
500
0
−500
−1000
−1500

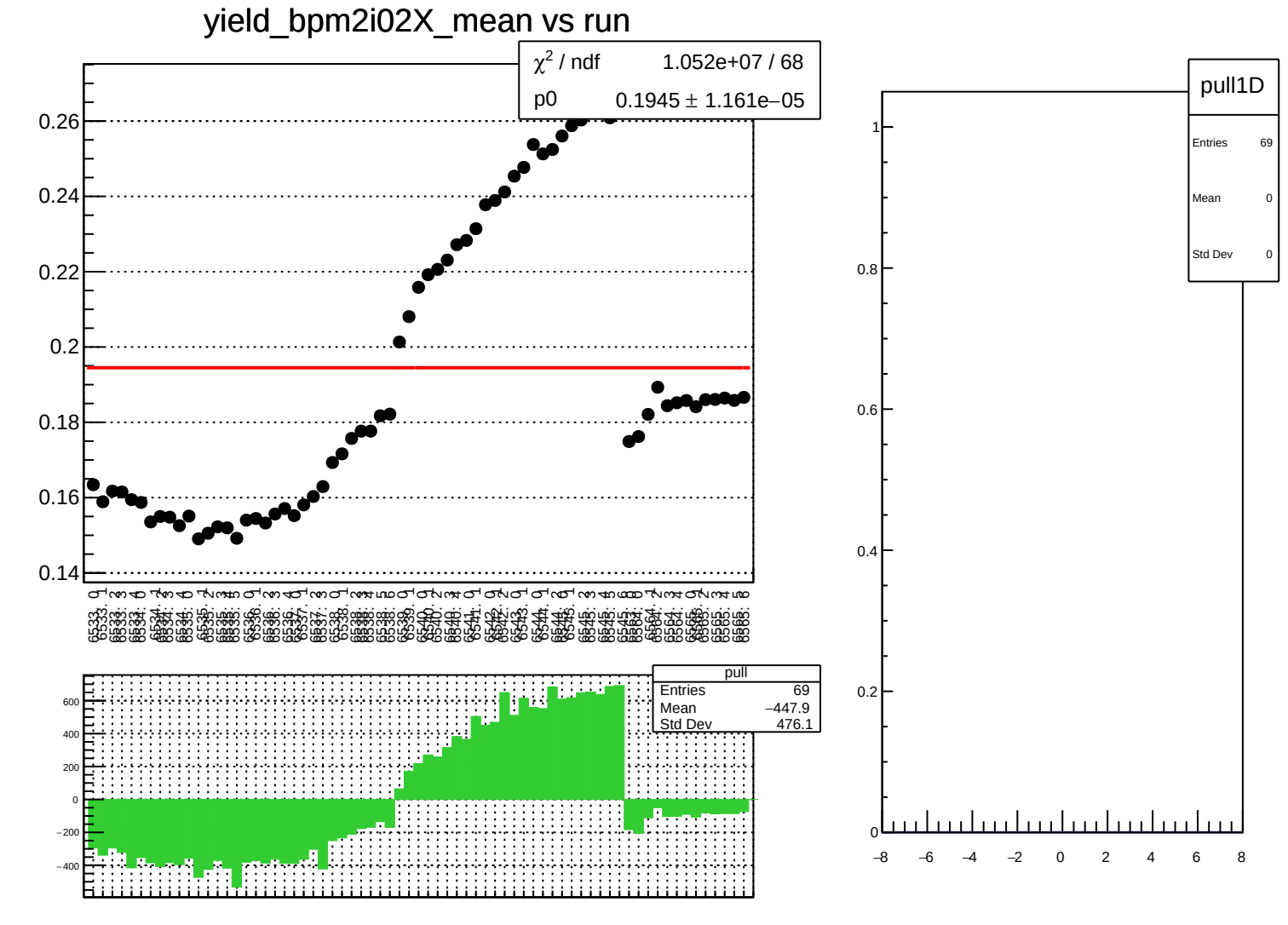

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

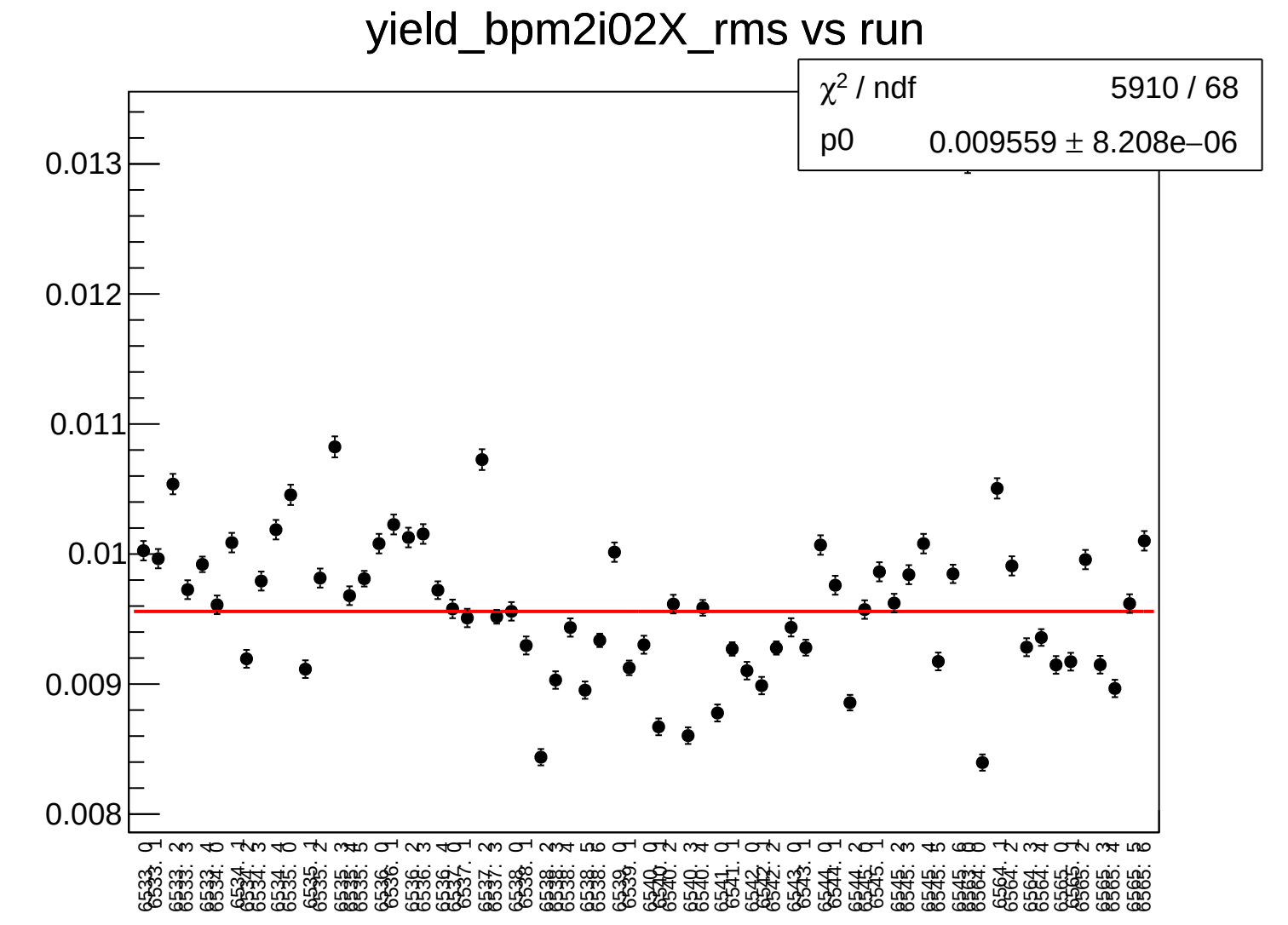

yield_bpm2i01X_rms vs run
χ² / ndf 9073 / 68
p0 0.001678 ± 1.442e−06
0.0022
0.0021
0.002
0.0019
0.0018
0.0017
0.0016
0.0015

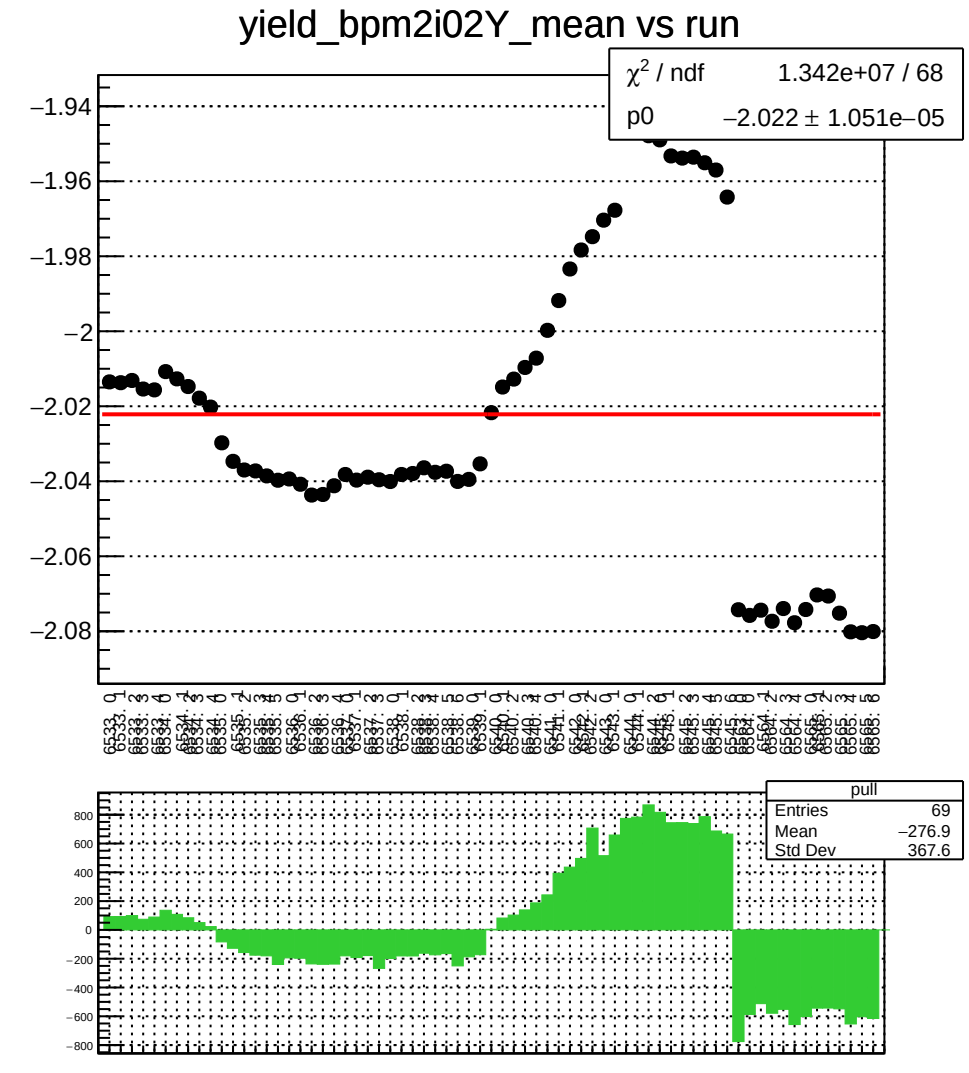

yield_bpm2i01Y_mean vs run
χ² / ndf 2.814e+07 / 68
p0 −3.499 ± 2.173e−06
−3.475
−3.48
−3.485
−3.49
−3.495
−3.5
−3.505
−3.51
−3.515
−3.52
pull
Entries 69
Mean −145.6
Std Dev 165.1
1500
1000
500
0
−500

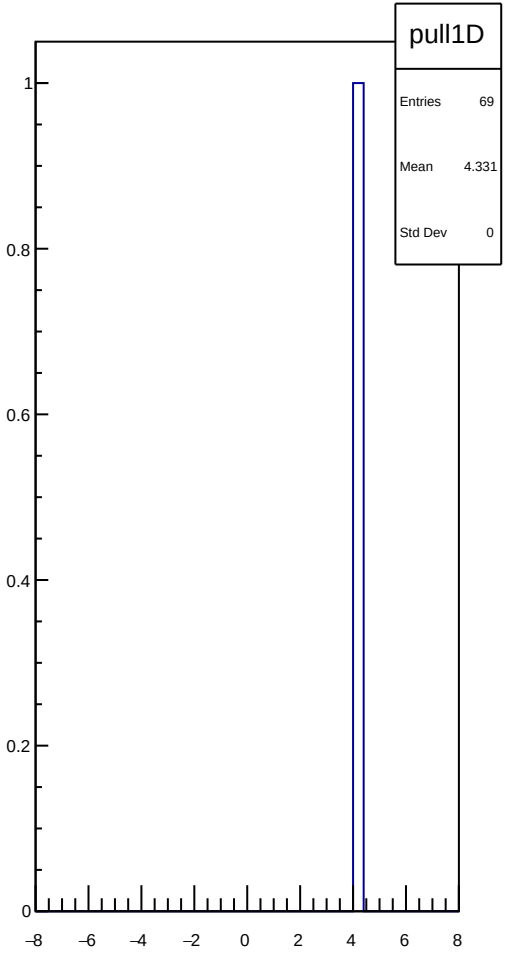

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

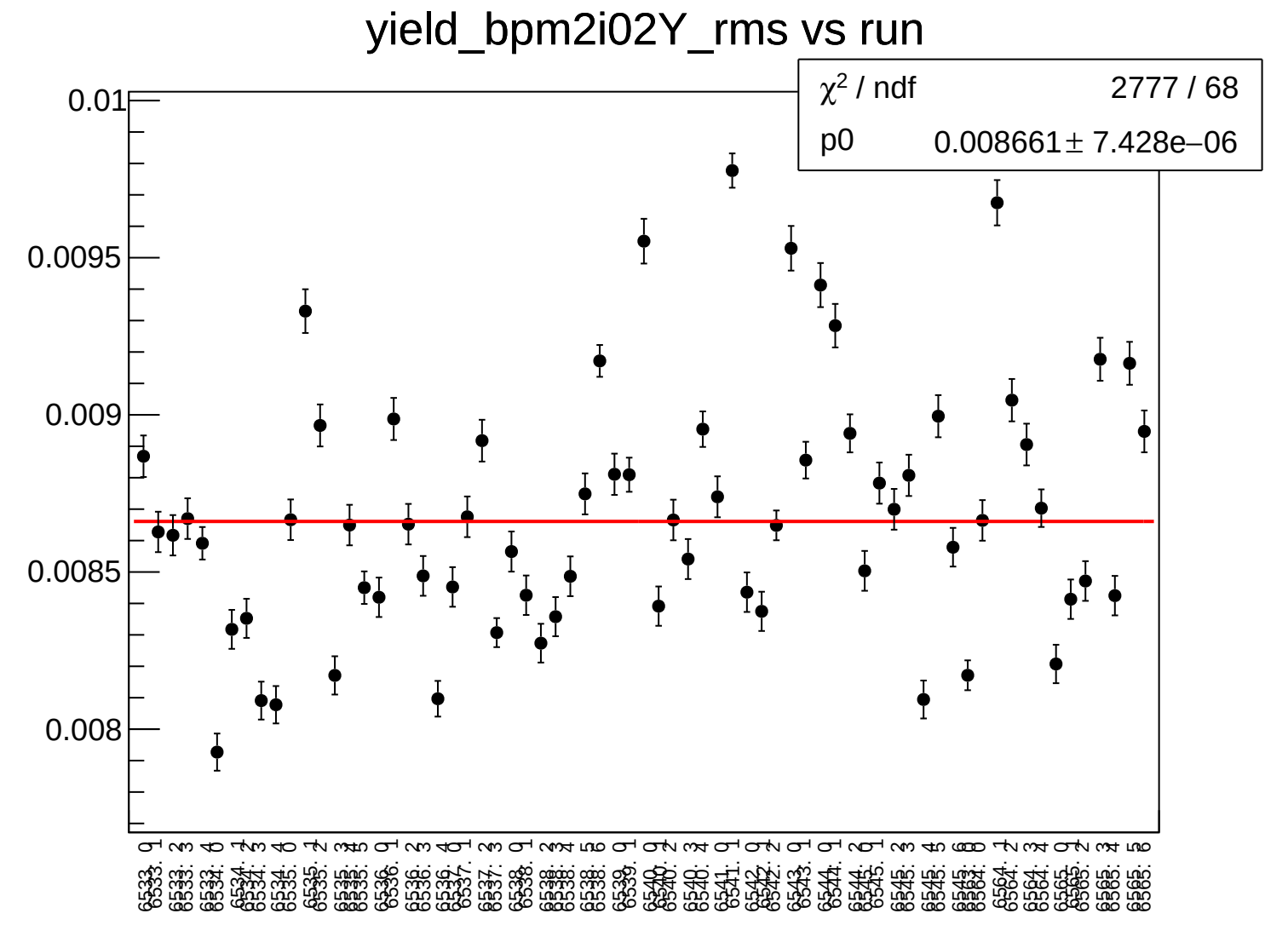

yield_bpm2i01Y_rms vs run
χ² / ndf 3.032e+04 / 68
p0 0.001774 ± 1.537e−06
0.004
0.0035
0.003
0.0025
0.002
0.0015

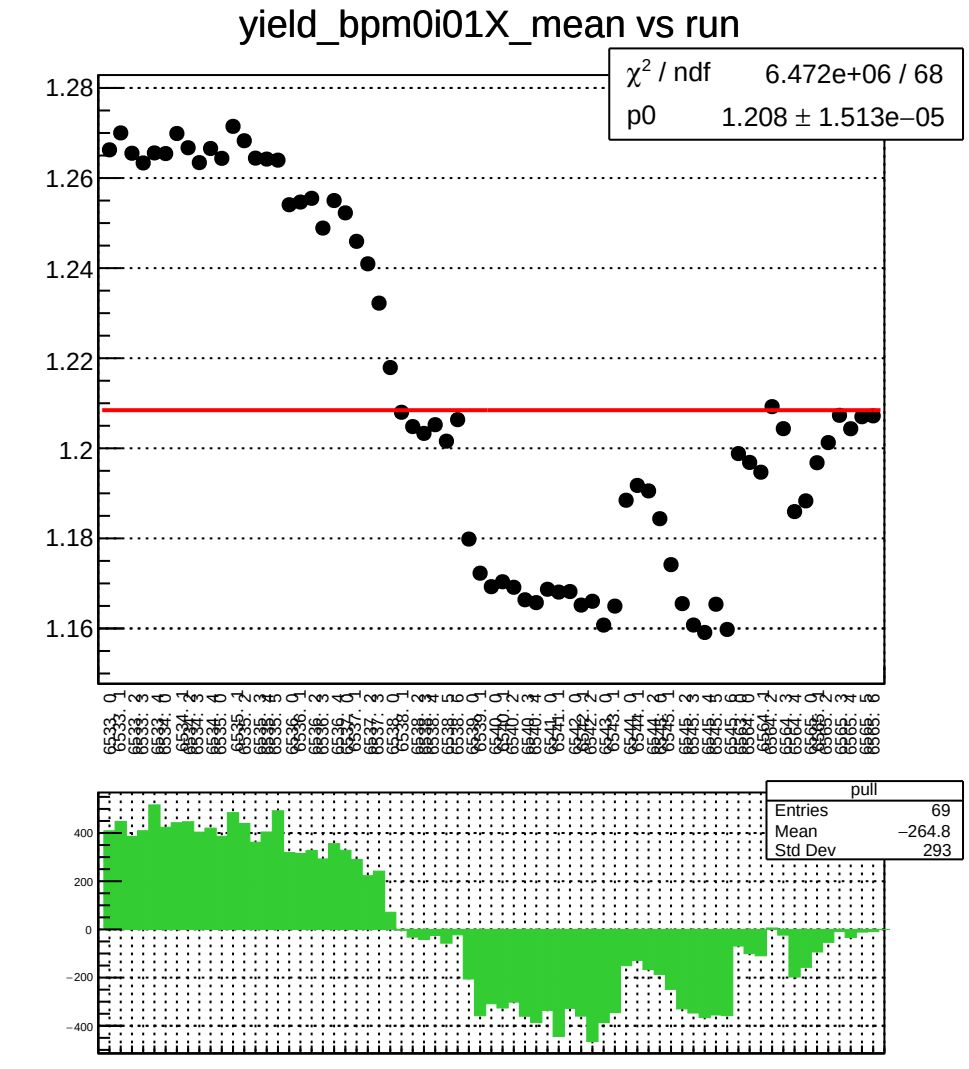

yield_bpm2i02X_mean vs run
χ² / ndf 1.052e+07 / 68
p0 0.1945 ± 1.161e−05
pull
Entries 69
Mean −447.9
Std Dev 476.1
pull1D
Entries 69
Mean 0
Std Dev 0

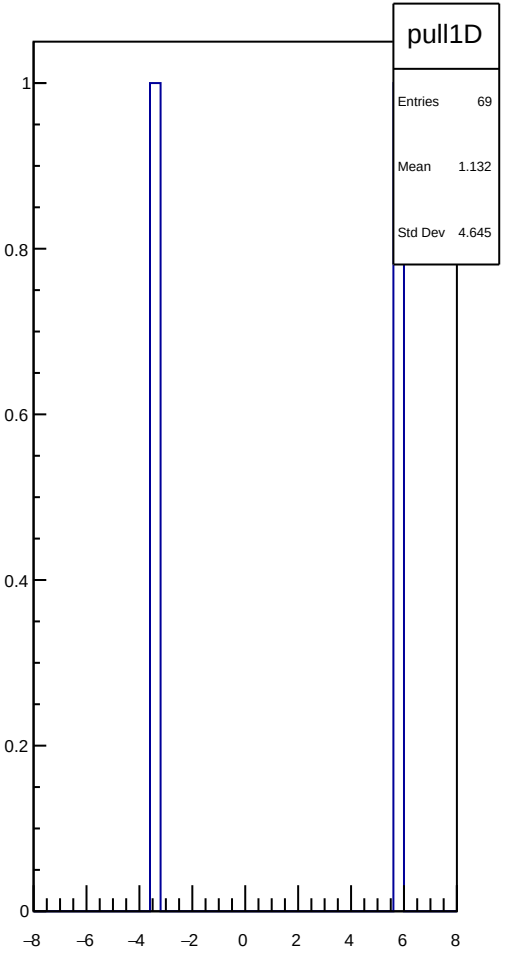

yield_bpm2i02X_rms vs run
χ² / ndf 5910 / 68
p0 0.009559 ± 8.208e−06
0.013
0.012
0.011
0.01
0.009
0.008

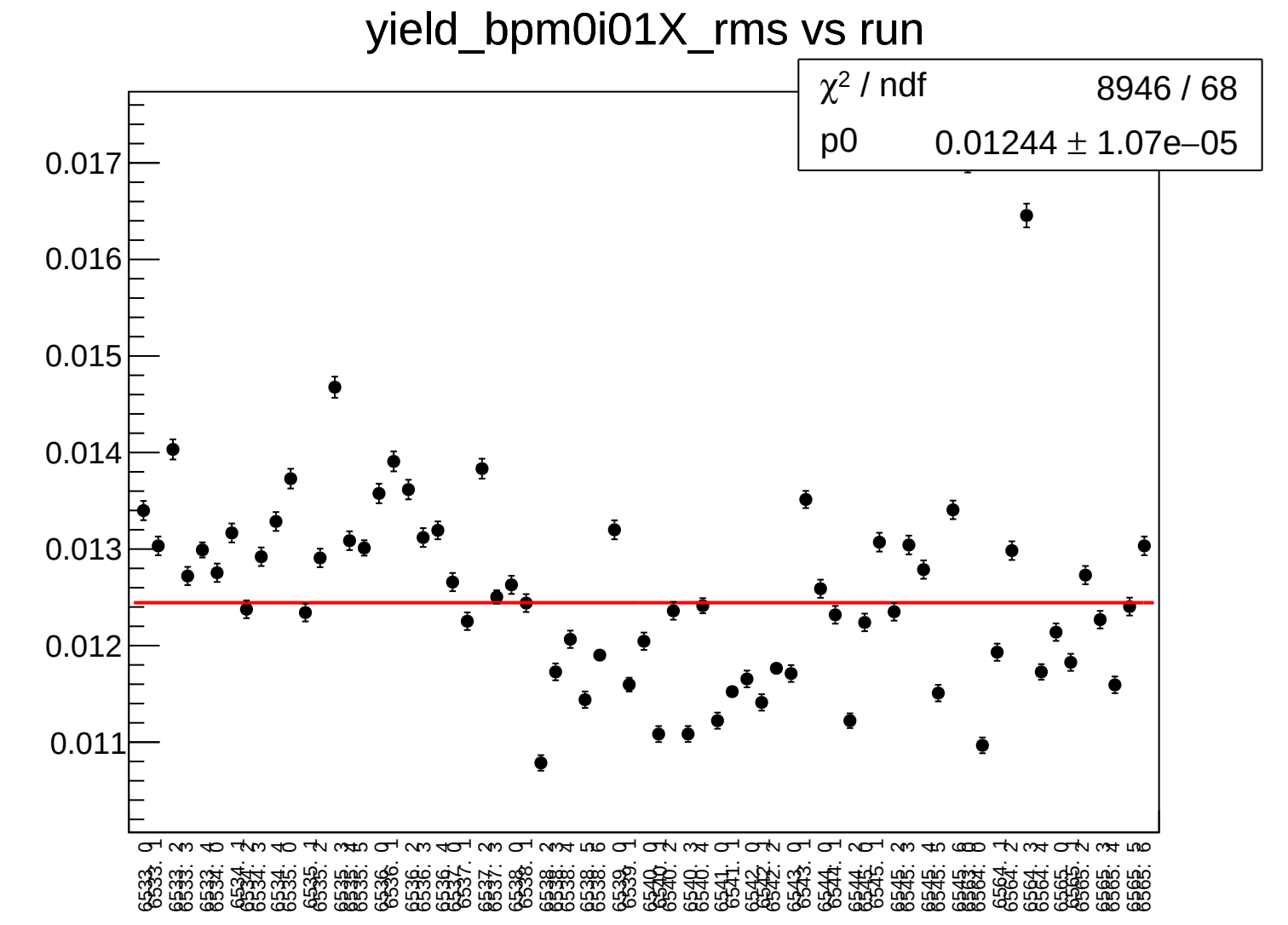

yield_bpm2i02Y_mean vs run
χ² / ndf 1.342e+07 / 68
p0 −2.022 ± 1.051e−05
−1.94
−1.96
−1.98
−2
−2.02
−2.04
−2.06
−2.08
pull
Entries 69
Mean −276.9
Std Dev 367.6
800
600
400
200
0
−200
−400
−600
−800

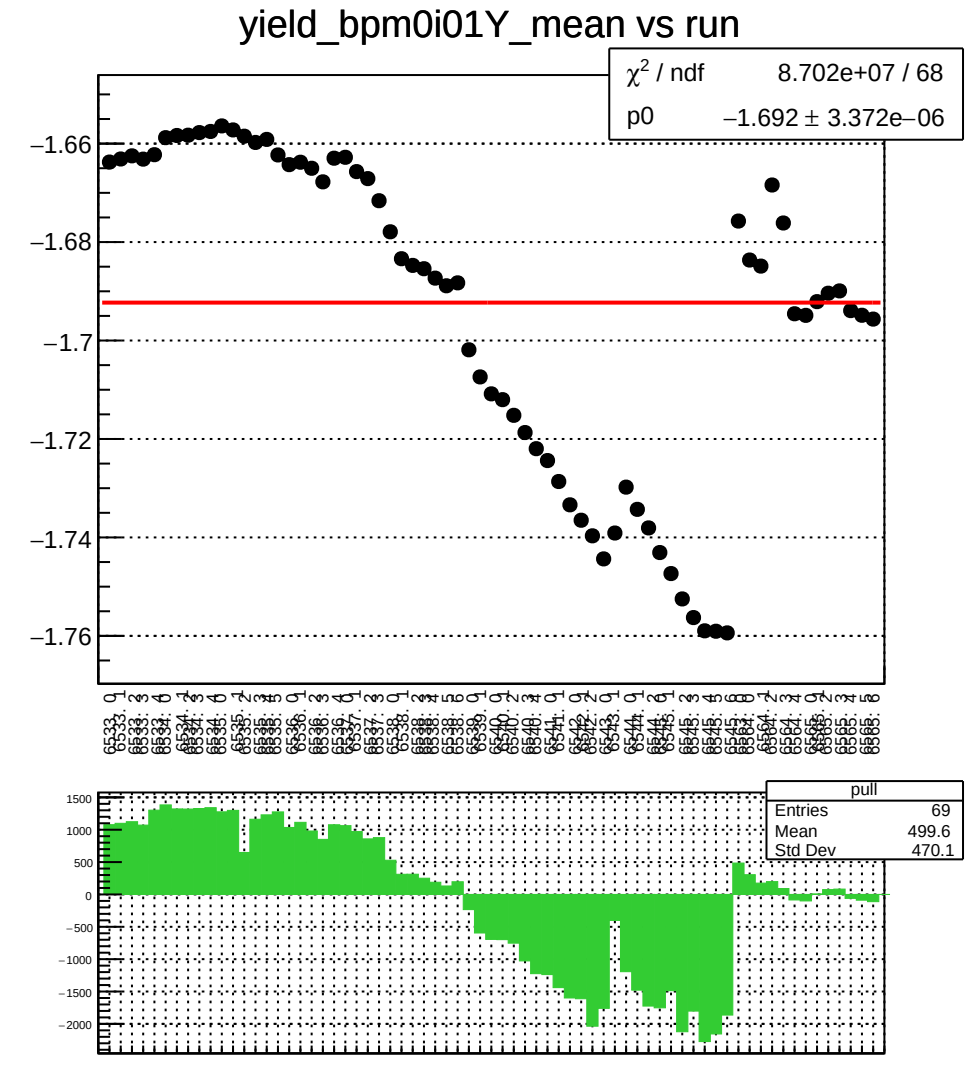

pull1D
Entries 69
Mean 4.331
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

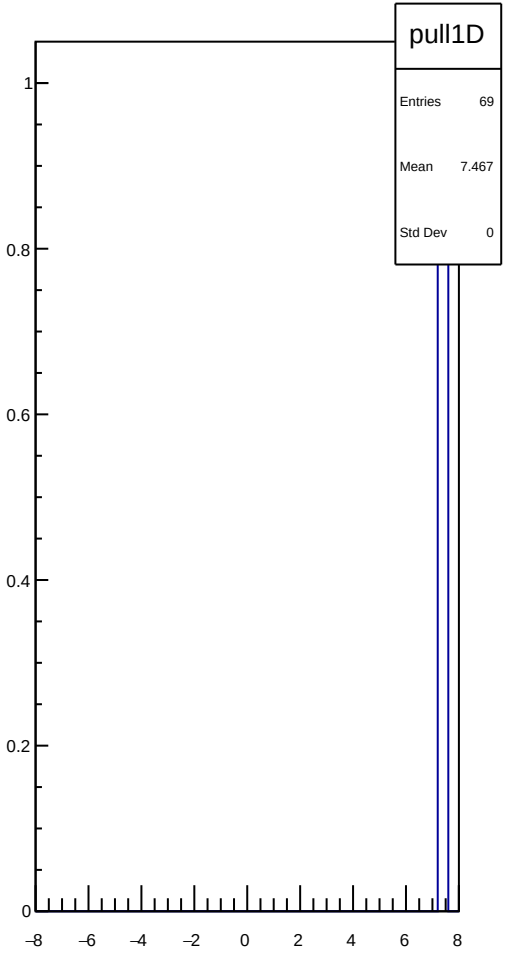

yield_bpm2i02Y_rms vs run
χ² / ndf 2777 / 68
p0 0.008661 ± 7.428e−06
0.01
0.0095
0.009
0.0085
0.008

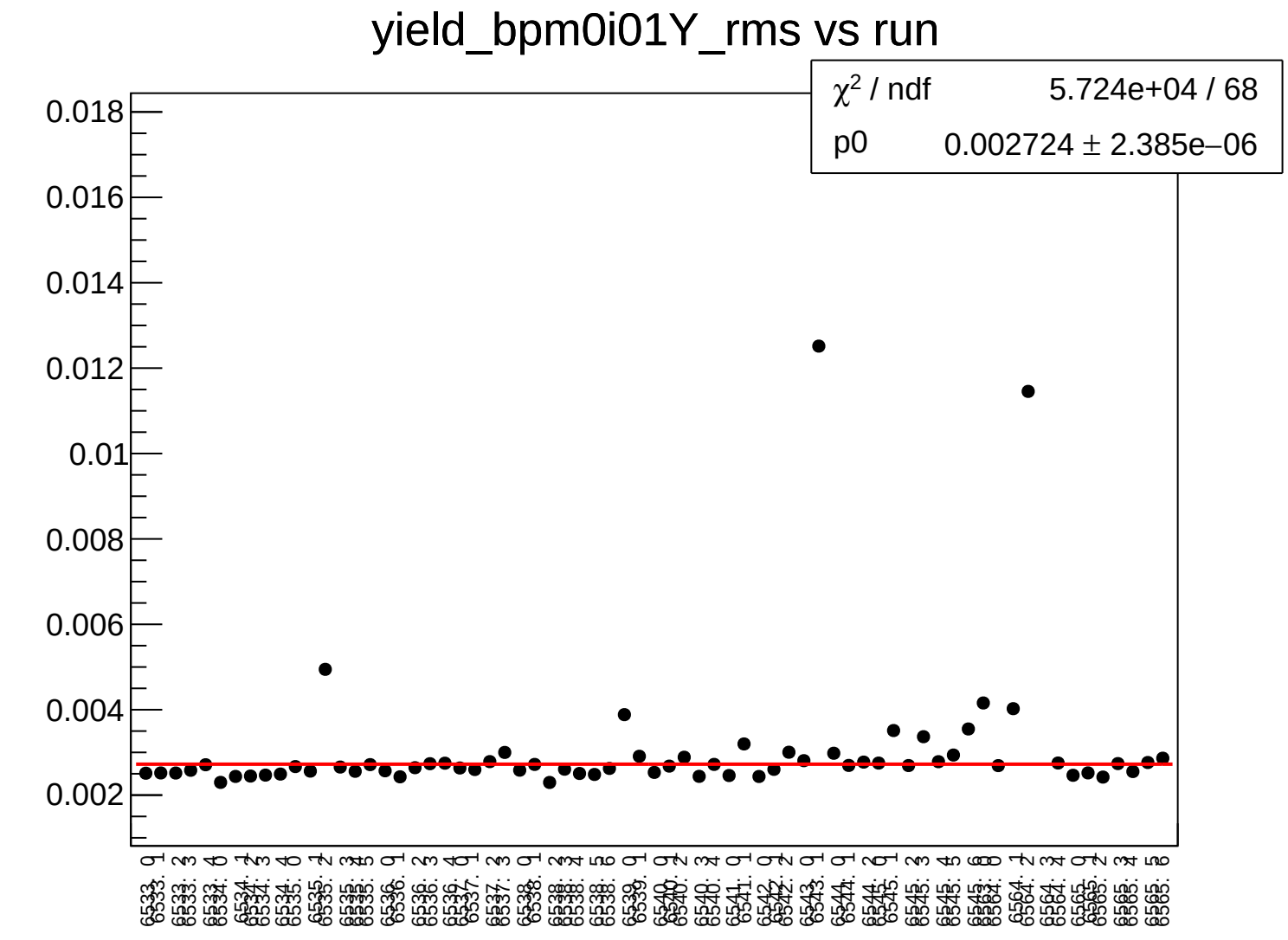

yield_bpm0i01X_mean vs run
χ² / ndf 6.472e+06 / 68
p0 1.208 ± 1.513e−05
1.28
1.26
1.24
1.22
1.2
1.18
1.16
pull
Entries 69
Mean −264.8
Std Dev 293
400
200
0
−200
−400

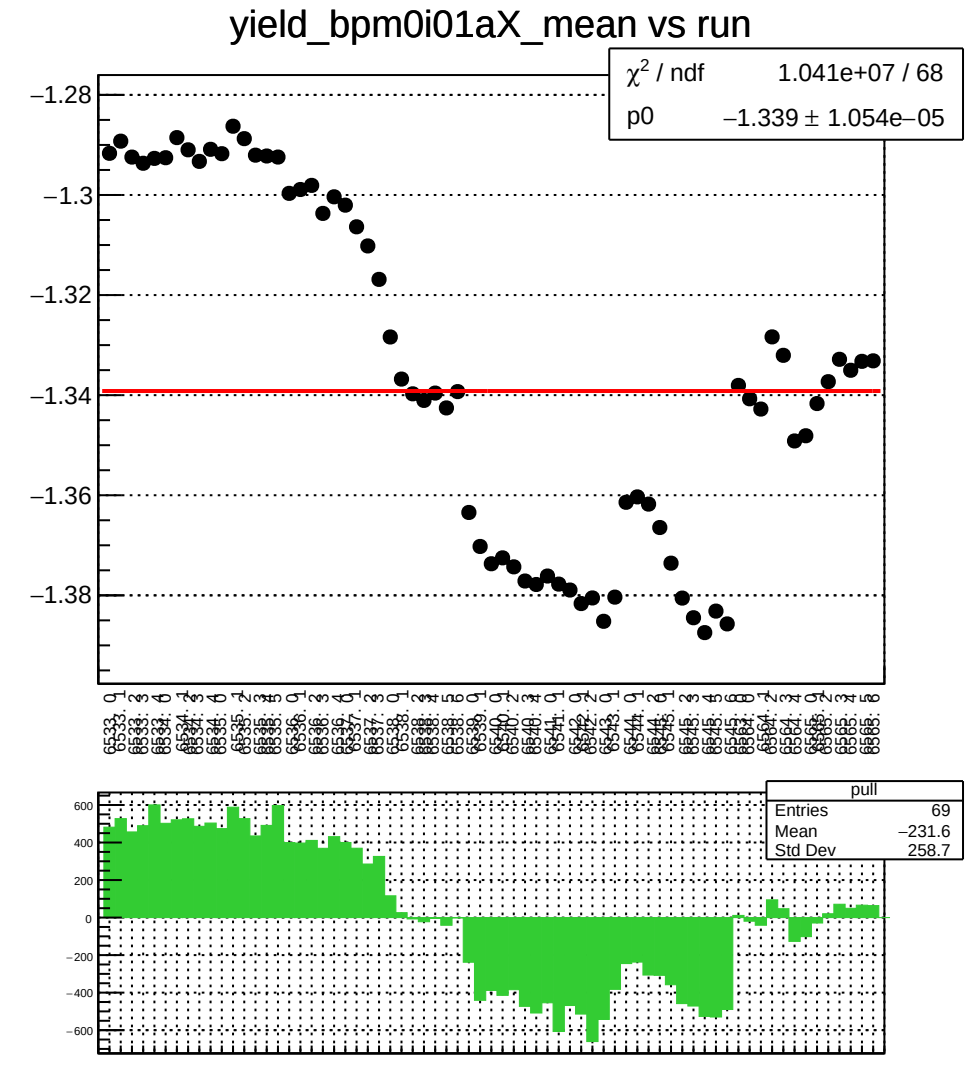

pull1D
Entries 69
Mean 1.132
Std Dev 4.645
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

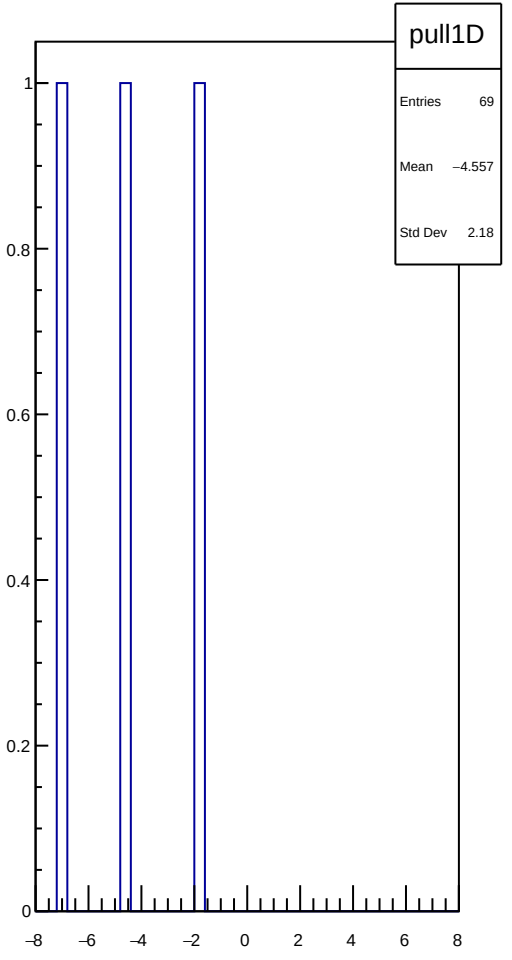

yield_bpm0i01X_rms vs run
χ² / ndf 8946 / 68
p0 0.01244 ± 1.07e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

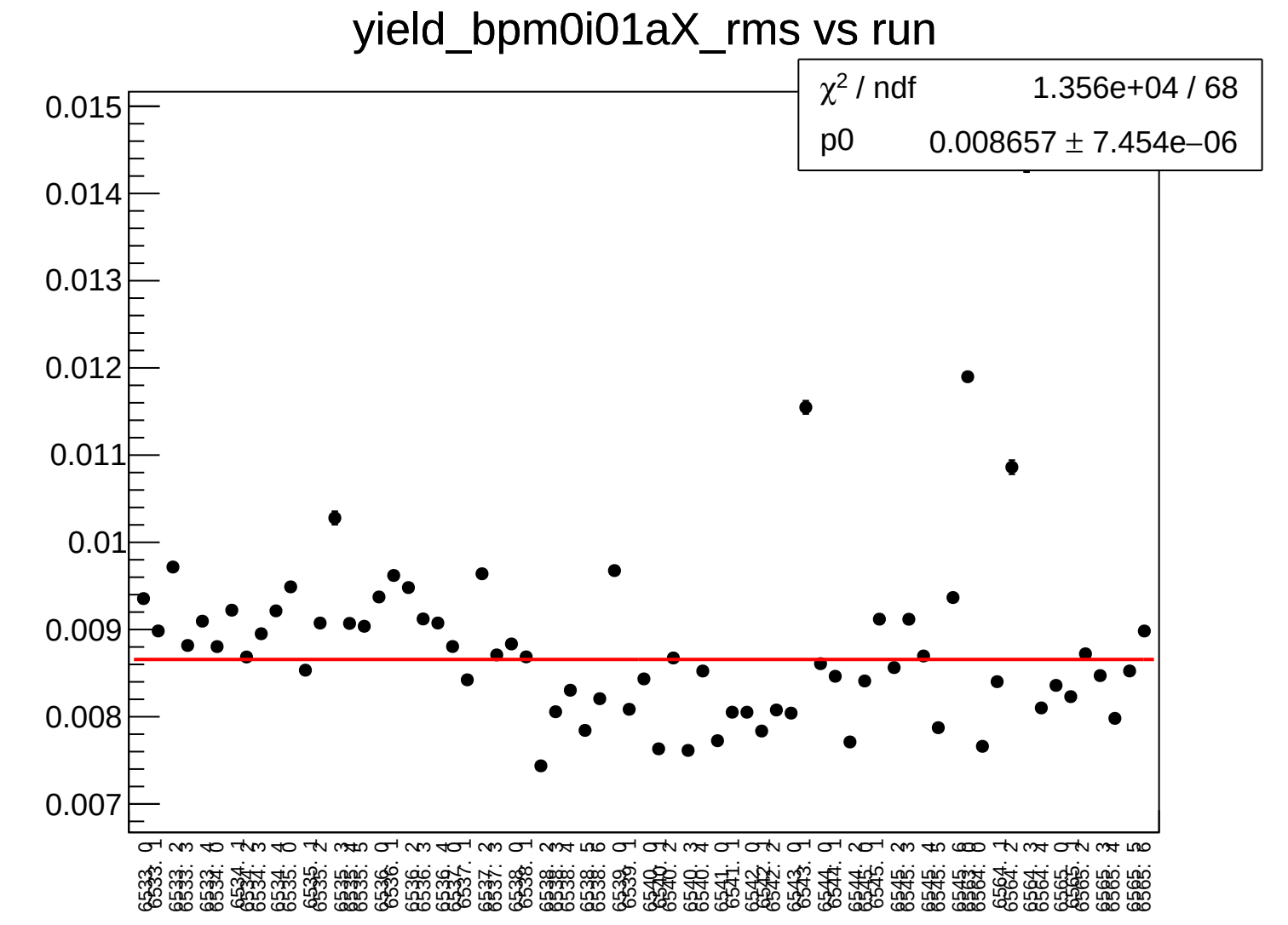

yield_bpm0i01Y_mean vs run
χ² / ndf 8.702e+07 / 68
p0 −1.692 ± 3.372e−06
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
pull
Entries 69
Mean 499.6
Std Dev 470.1
1500
1000
500
0
−500
−1000
−1500
−2000

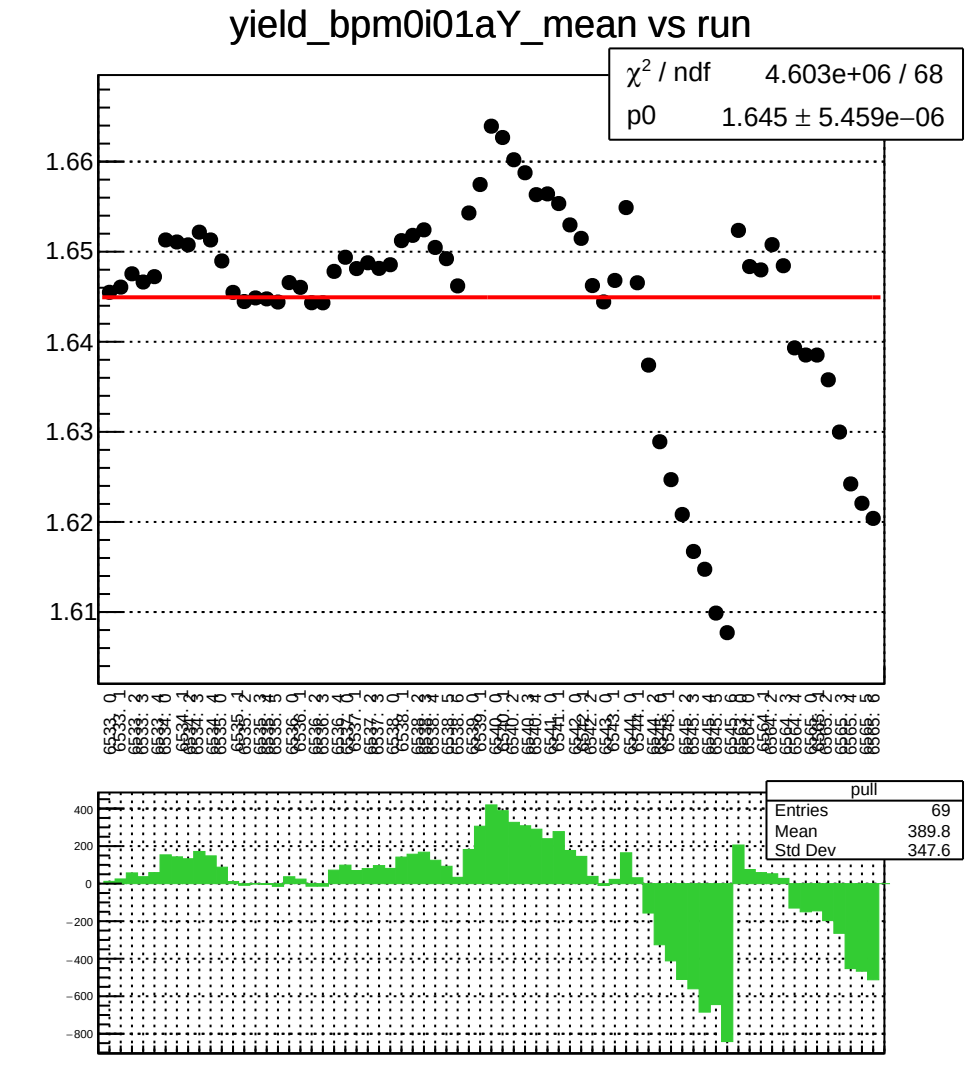

pull1D
Entries 69
Mean 7.467
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

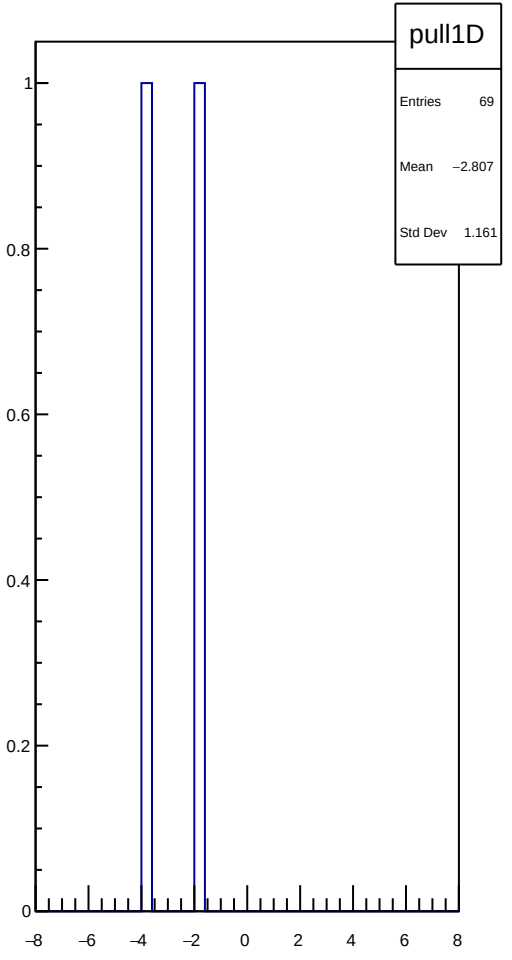

yield_bpm0i01Y_rms vs run
χ² / ndf 5.724e+04 / 68
p0 0.002724 ± 2.385e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

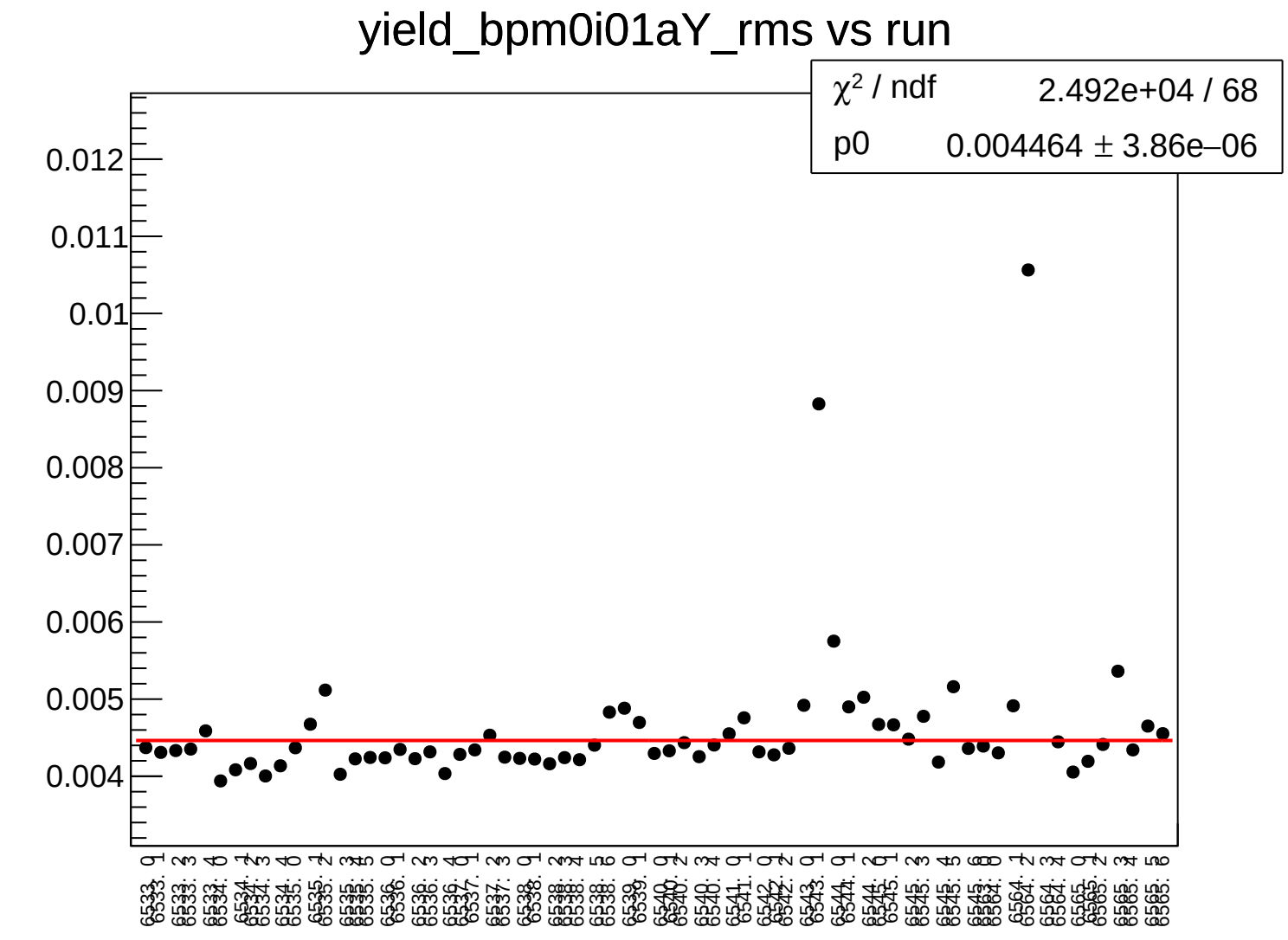

yield_bpm0i01aX_mean vs run
χ² / ndf 1.041e+07 / 68
p0 −1.339 ± 1.054e−05
−1.28
−1.3
−1.32
−1.34
−1.36
−1.38
pull
Entries 69
Mean −231.6
Std Dev 258.7
600
400
200
0
−200
−400
−600

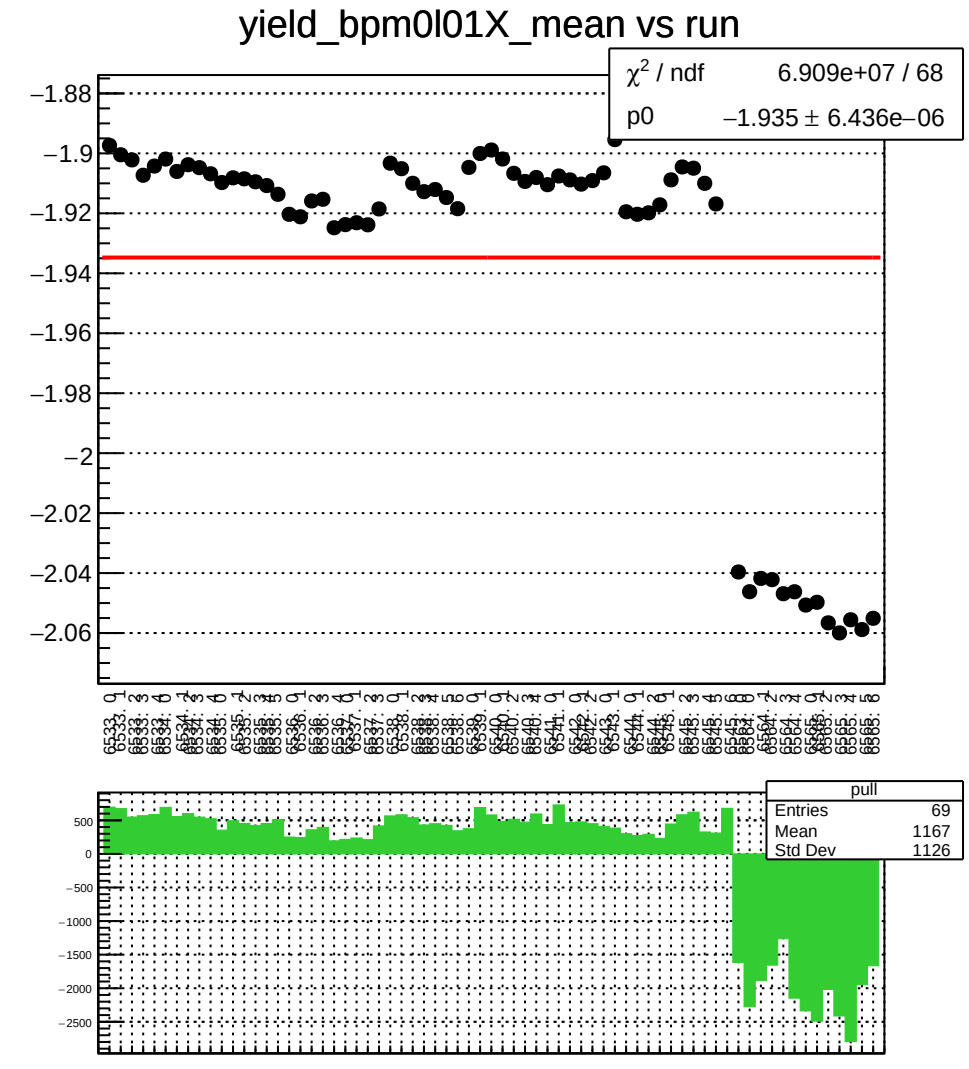

pull1D
Entries 69
Mean −4.557
Std Dev 2.18
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

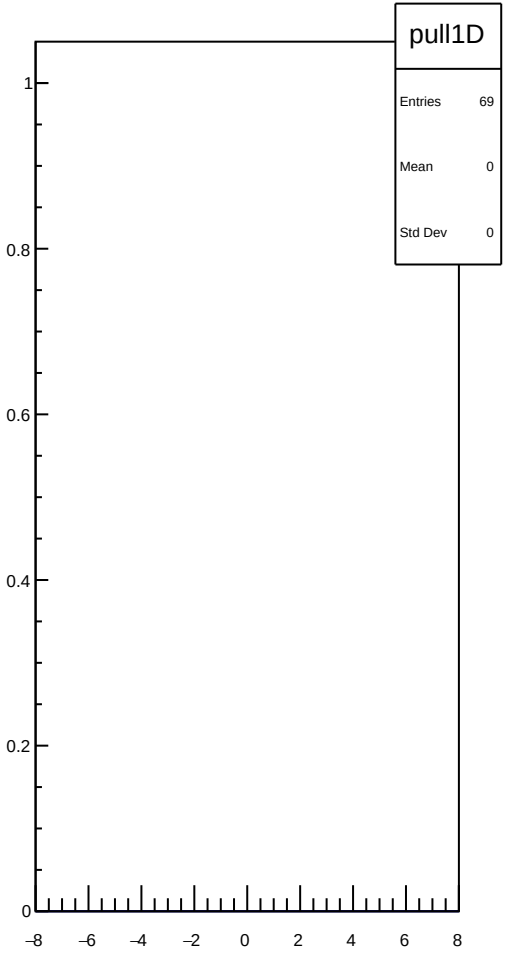

yield_bpm0i01aX_rms vs run
χ² / ndf 1.356e+04 / 68
p0 0.008657 ± 7.454e−06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

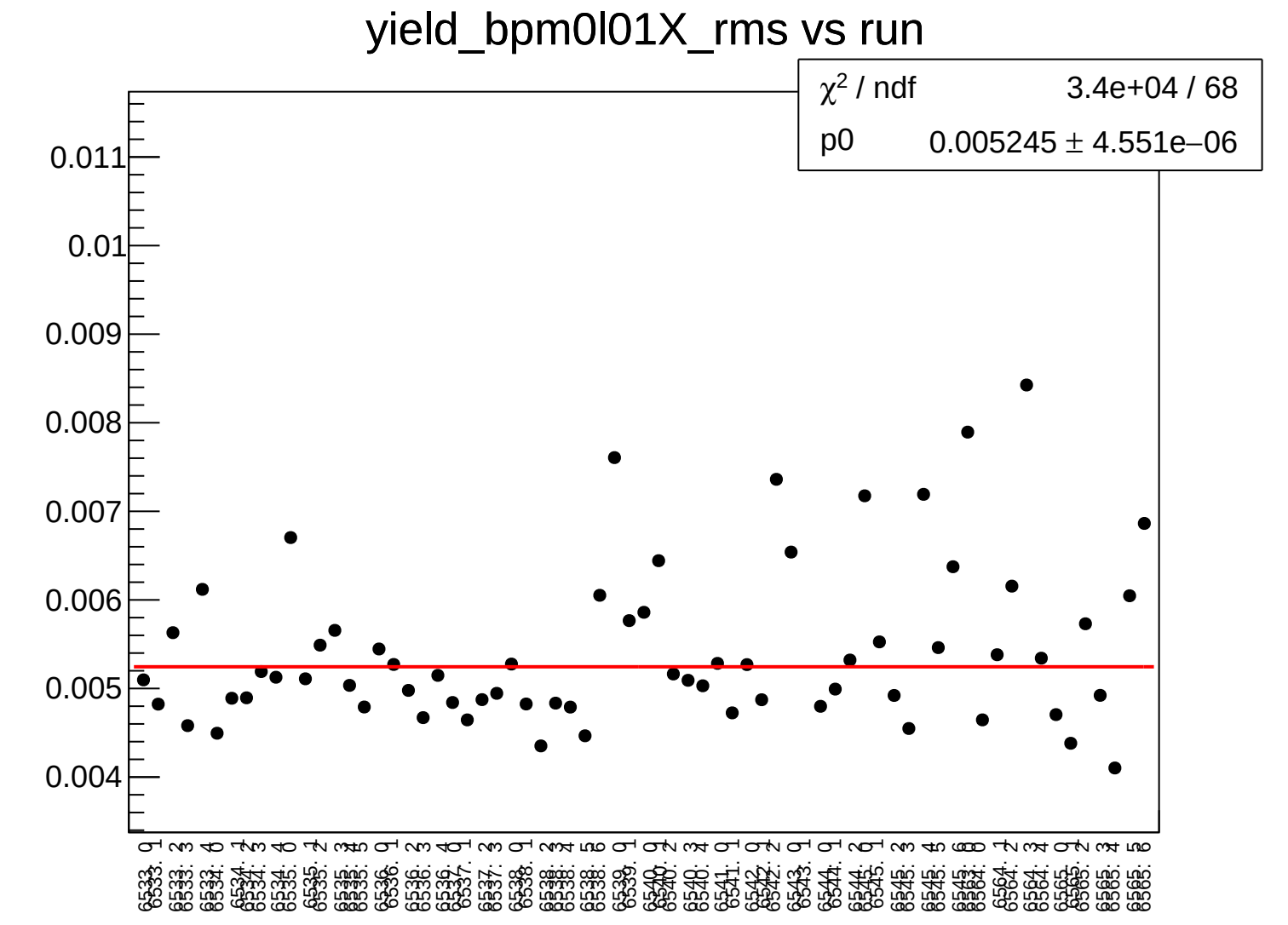

yield_bpm0i01aY_mean vs run
χ² / ndf 4.603e+06 / 68
p0 1.645 ± 5.459e−06
1.66
1.65
1.64
1.63
1.62
1.61
pull
Entries 69
Mean 389.8
Std Dev 347.6
400
200
0
−200
−400
−600
−800

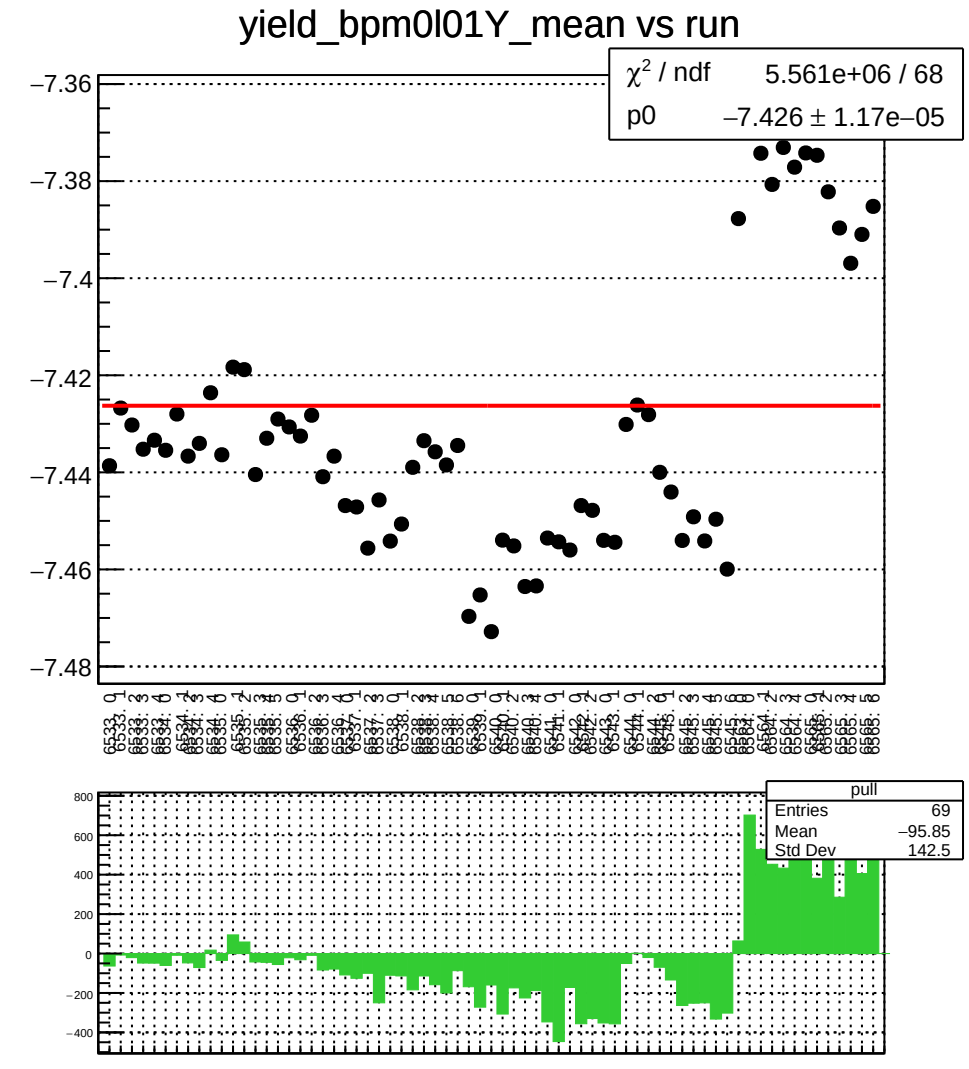

pull1D
Entries 69
Mean −2.807
Std Dev 1.161
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

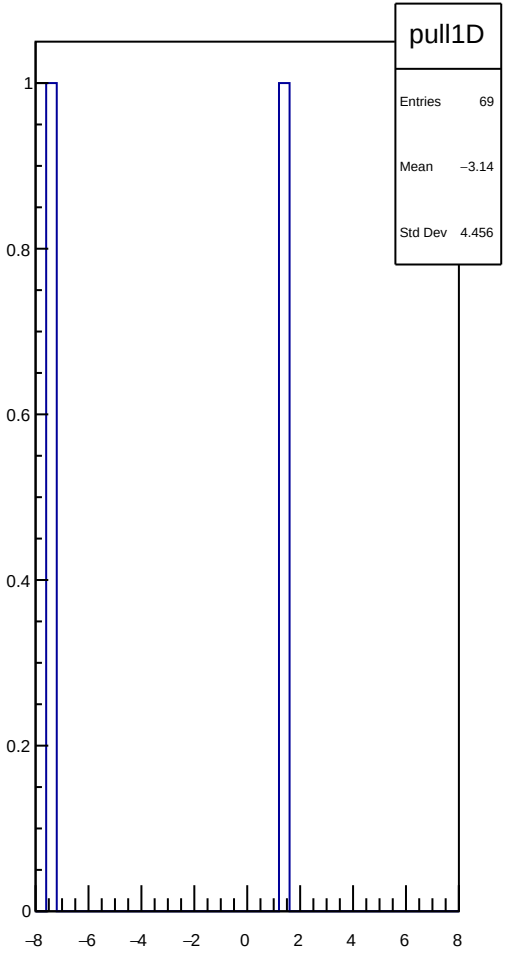

yield_bpm0i01aY_rms vs run
χ² / ndf 2.492e+04 / 68
p0 0.004464 ± 3.86e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

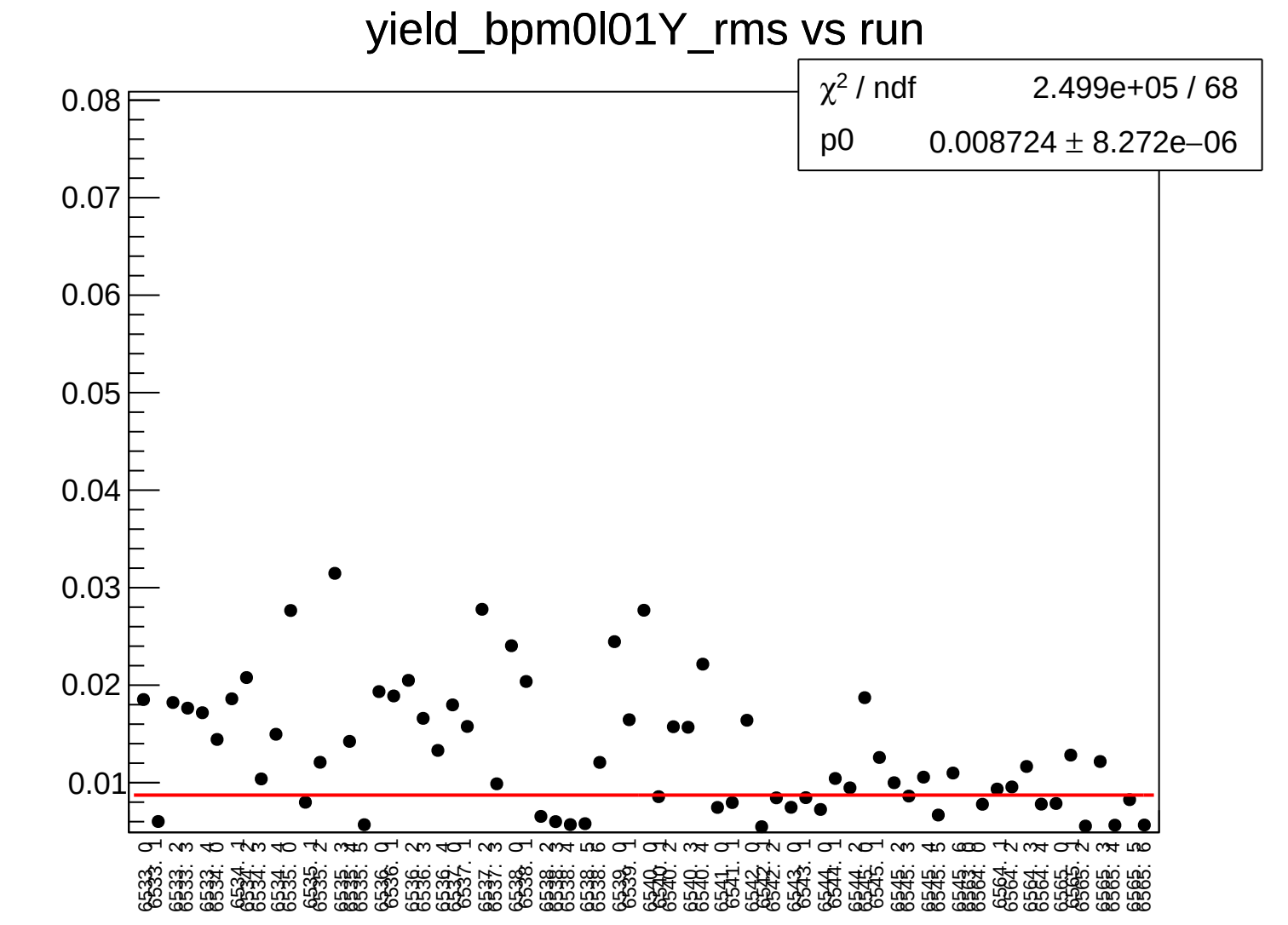

yield_bpm0l01X_mean vs run
χ² / ndf 6.909e+07 / 68
p0 −1.935 ± 6.436e−06
−1.88
−1.9
−1.92
−1.94
−1.96
−1.98
−2
−2.02
−2.04
−2.06
pull
Entries 69
Mean 1167
Std Dev 1126
500
0
−500
−1000
−1500
−2000
−2500

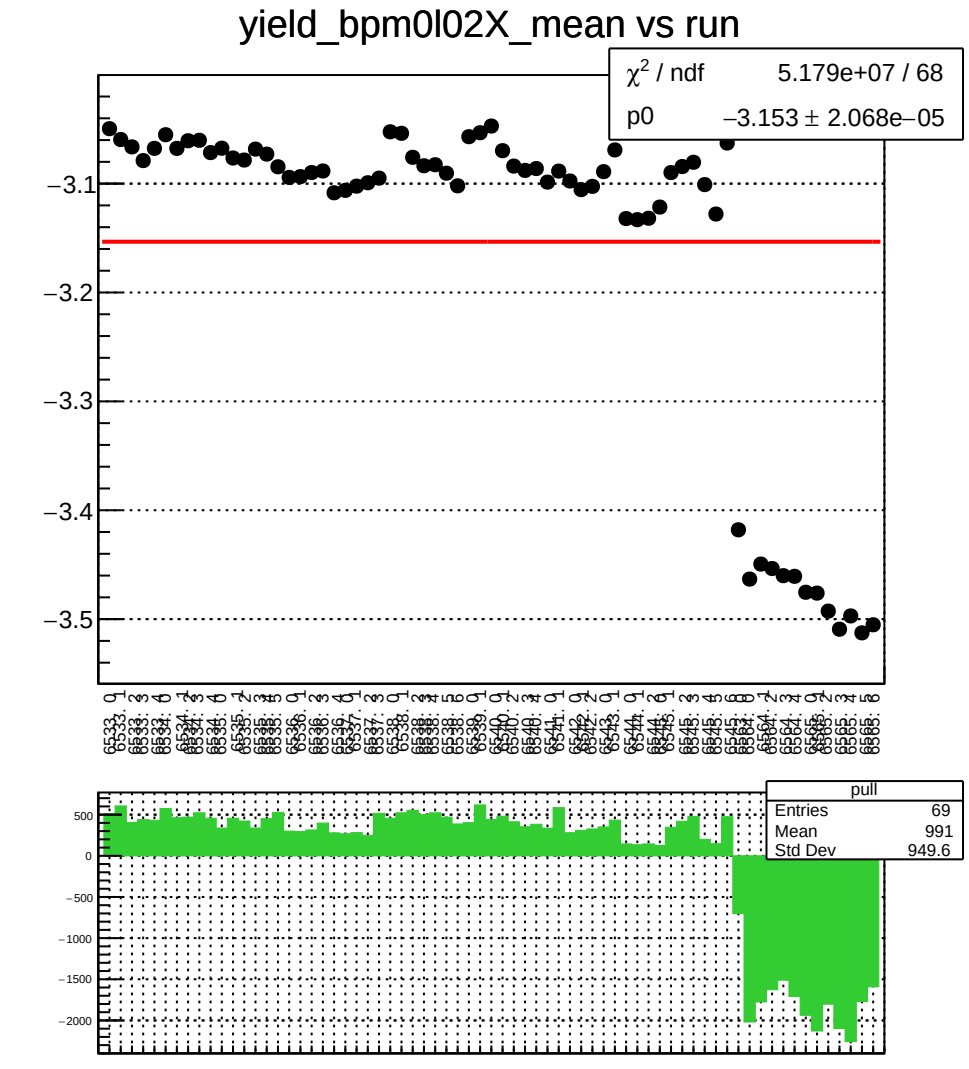

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

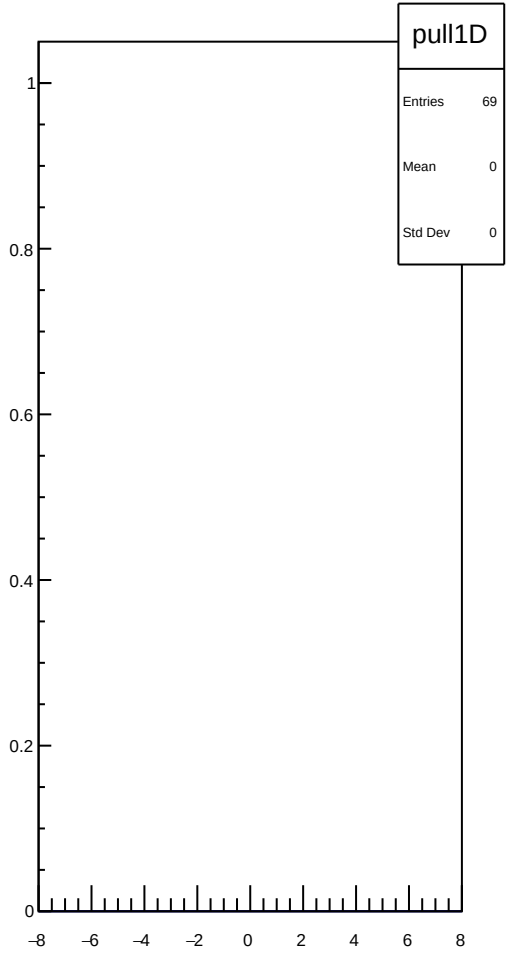

yield_bpm0l01X_rms vs run
$\chi^2$ / ndf 3.4e+04 / 68
p0 0.005245 ± 4.551e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

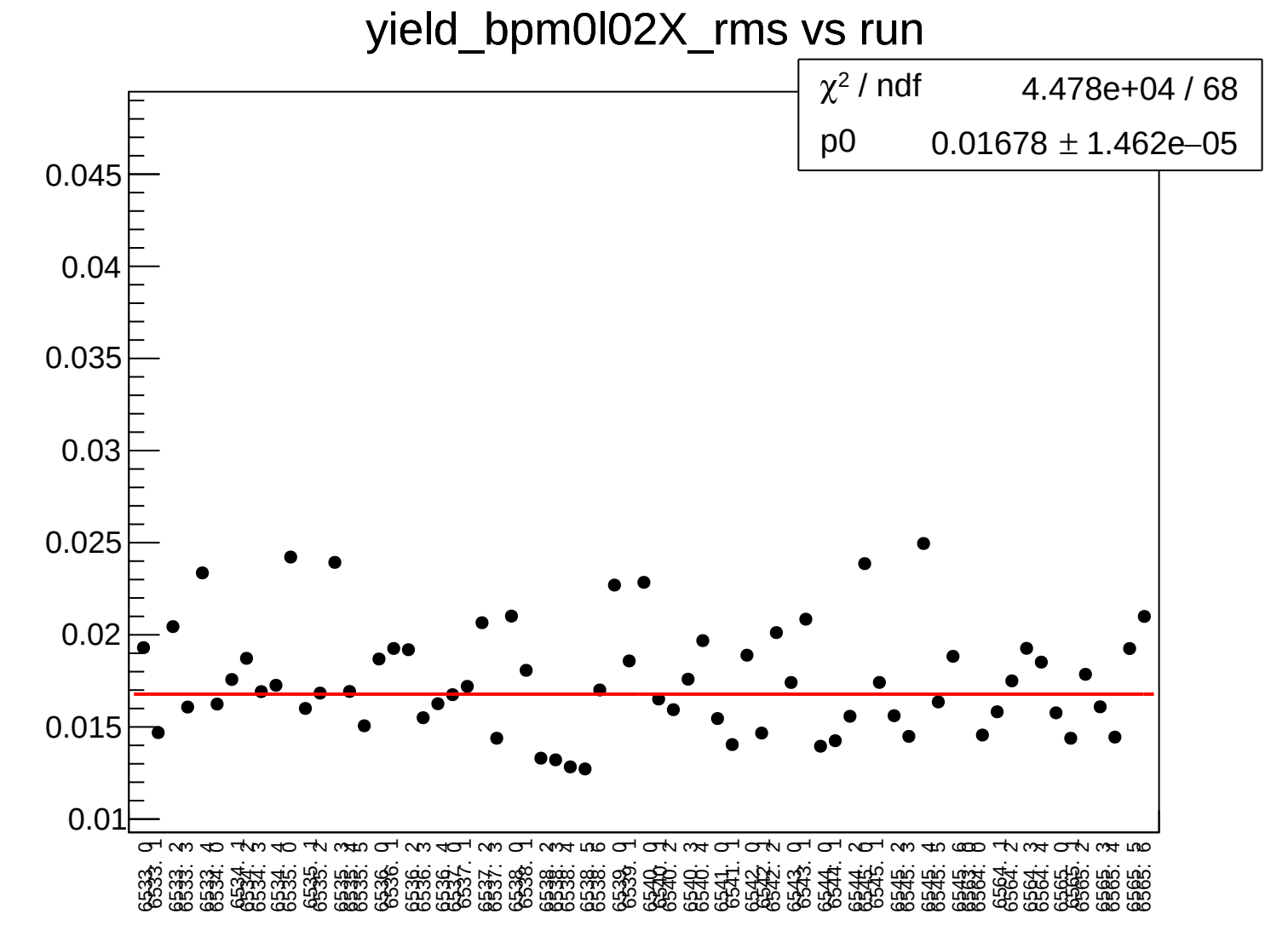

yield_bpm0l01Y_mean vs run
χ² / ndf 5.561e+06 / 68
p0 −7.426 ± 1.17e−05
−7.36
−7.38
−7.4
−7.42
−7.44
−7.46
−7.48
pull
Entries 69
Mean −95.85
Std Dev 142.5
800
600
400
200
0
−200
−400

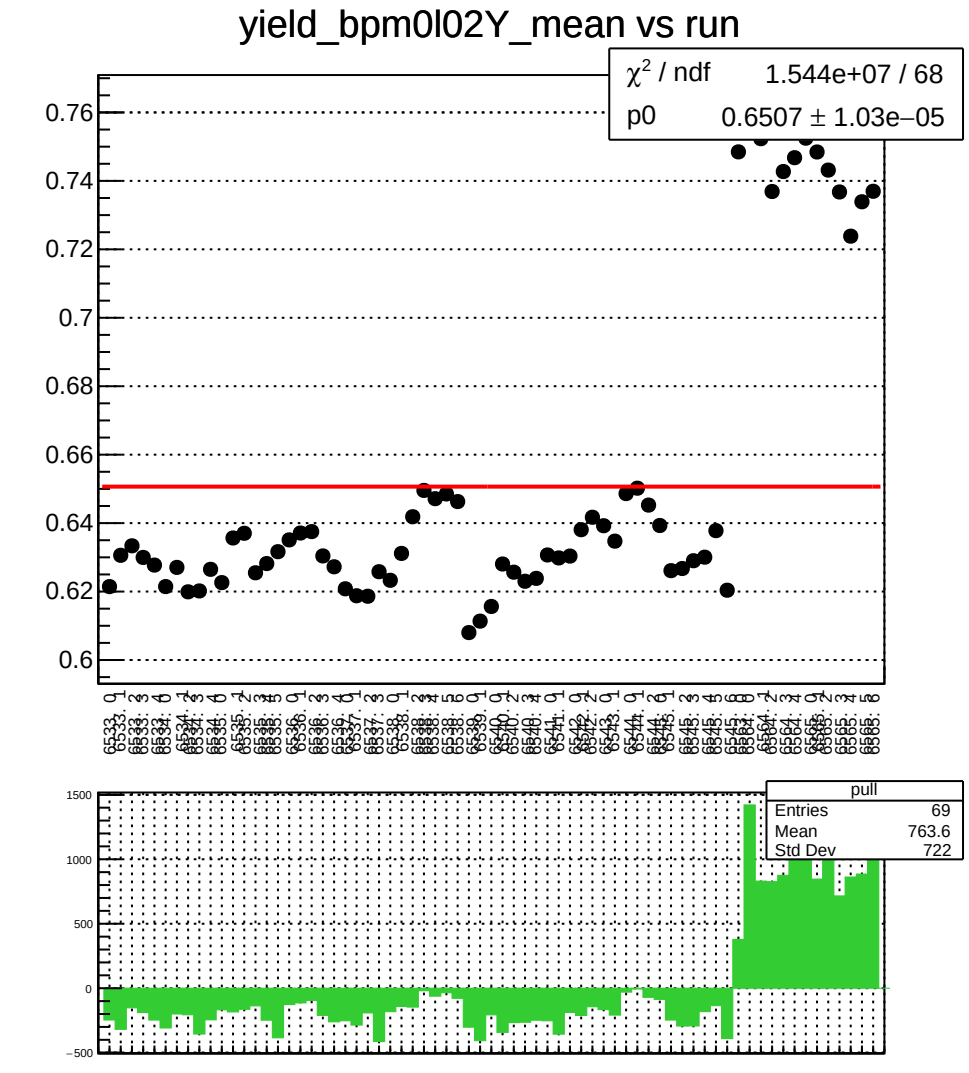

pull1D
Entries 69
Mean −3.14
Std Dev 4.456
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

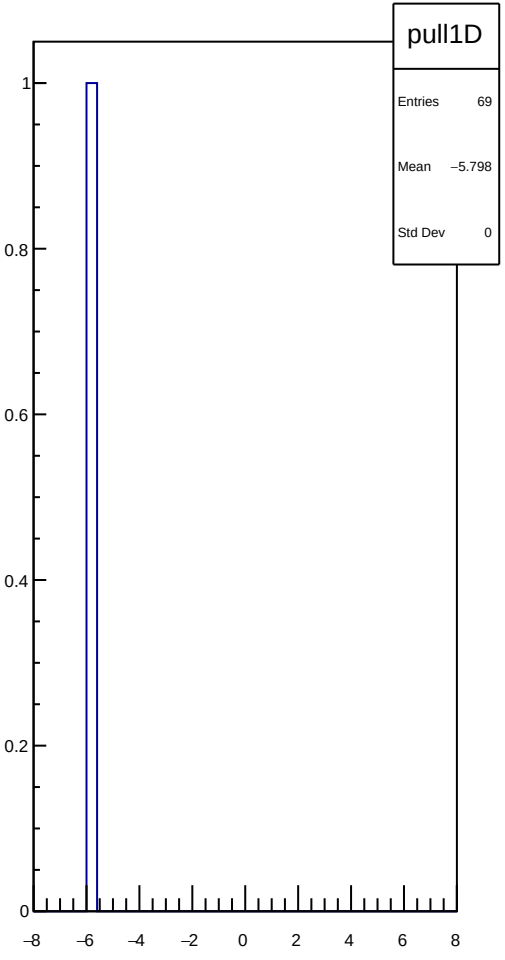

yield_bpm0l01Y_rms vs run
χ² / ndf 2.499e+05 / 68
p0 0.008724 ± 8.272e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

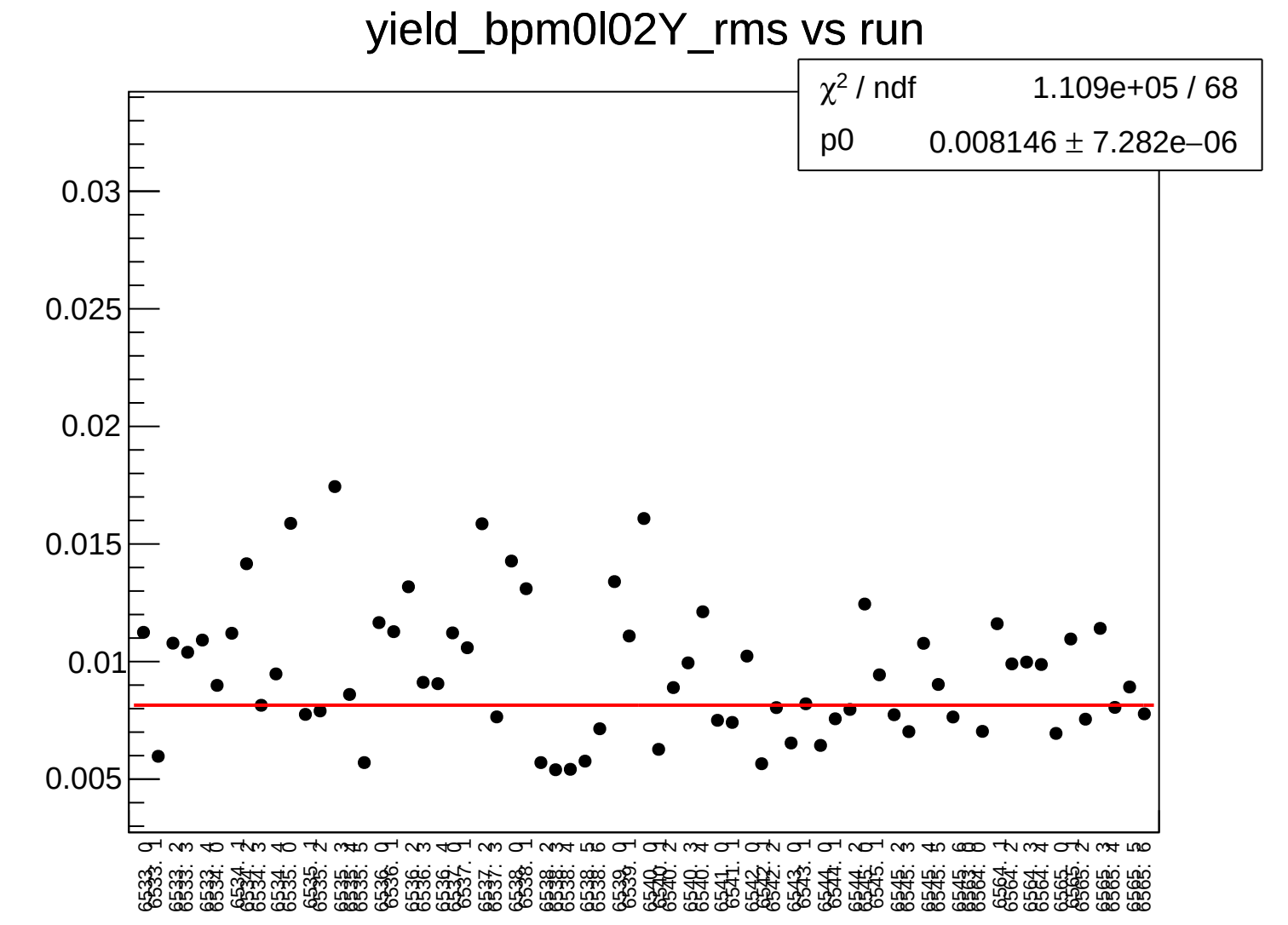

yield_bpm0l02X_mean vs run
χ² / ndf 5.179e+07 / 68
p0 −3.153 ± 2.068e−05
−3.1
−3.2
−3.3
−3.4
−3.5
pull
Entries 69
Mean 991
Std Dev 949.6
500
0
−500
−1000
−1500
−2000

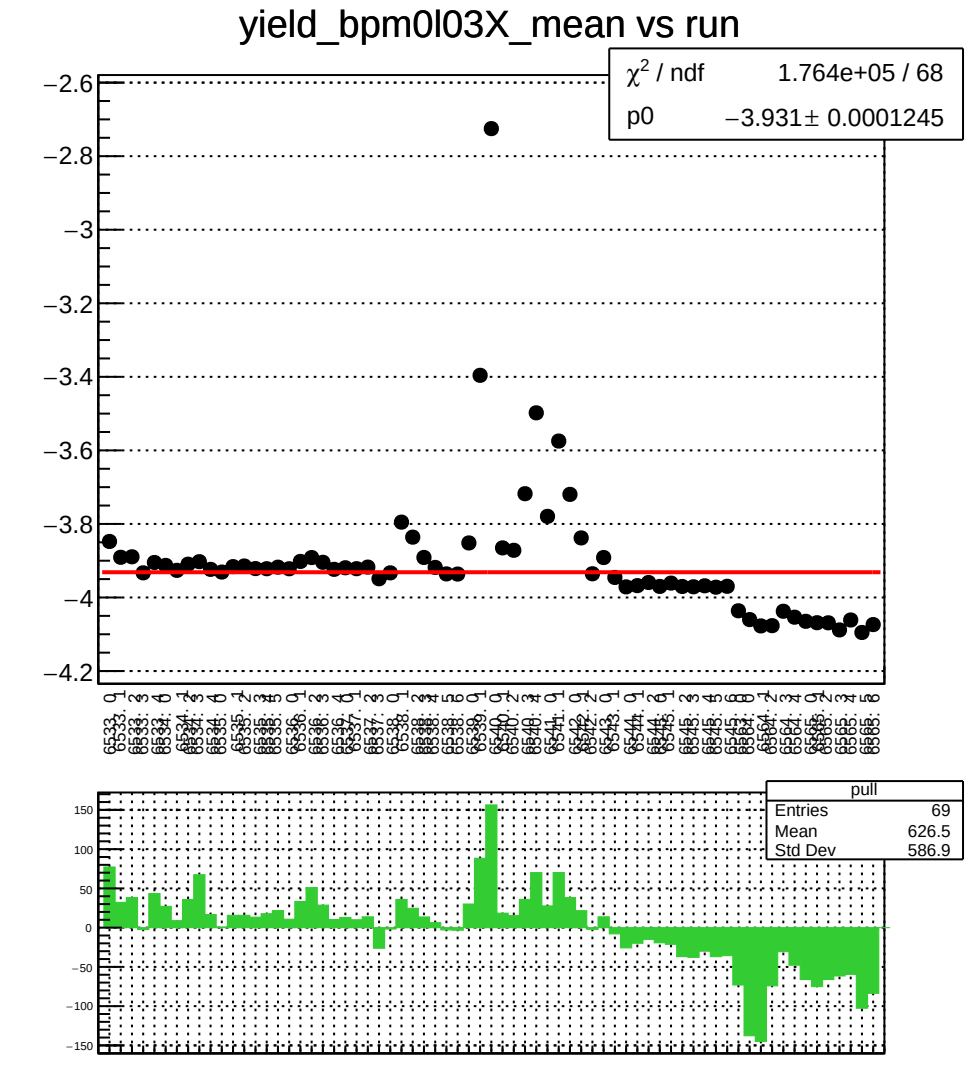

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

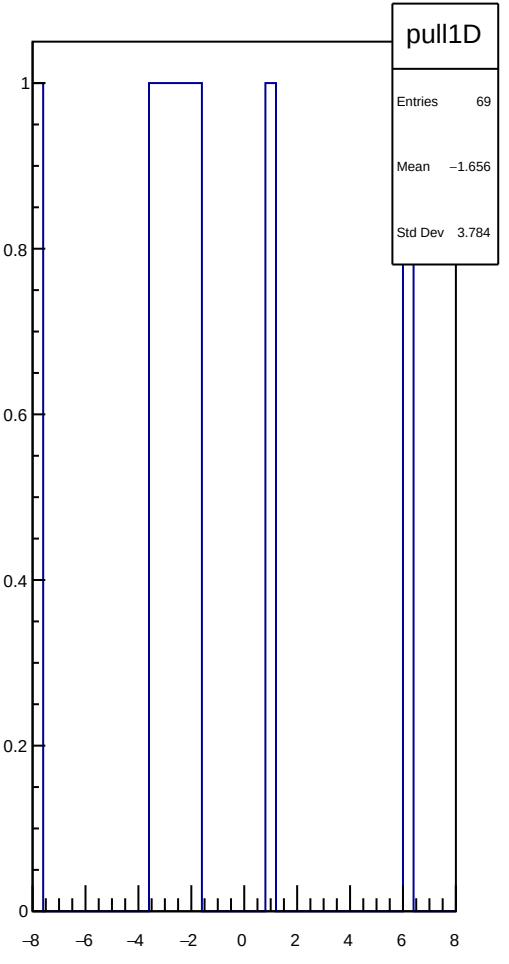

yield_bpm0l02X_rms vs run
χ² / ndf 4.478e+04 / 68
p0 0.01678 ± 1.462e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

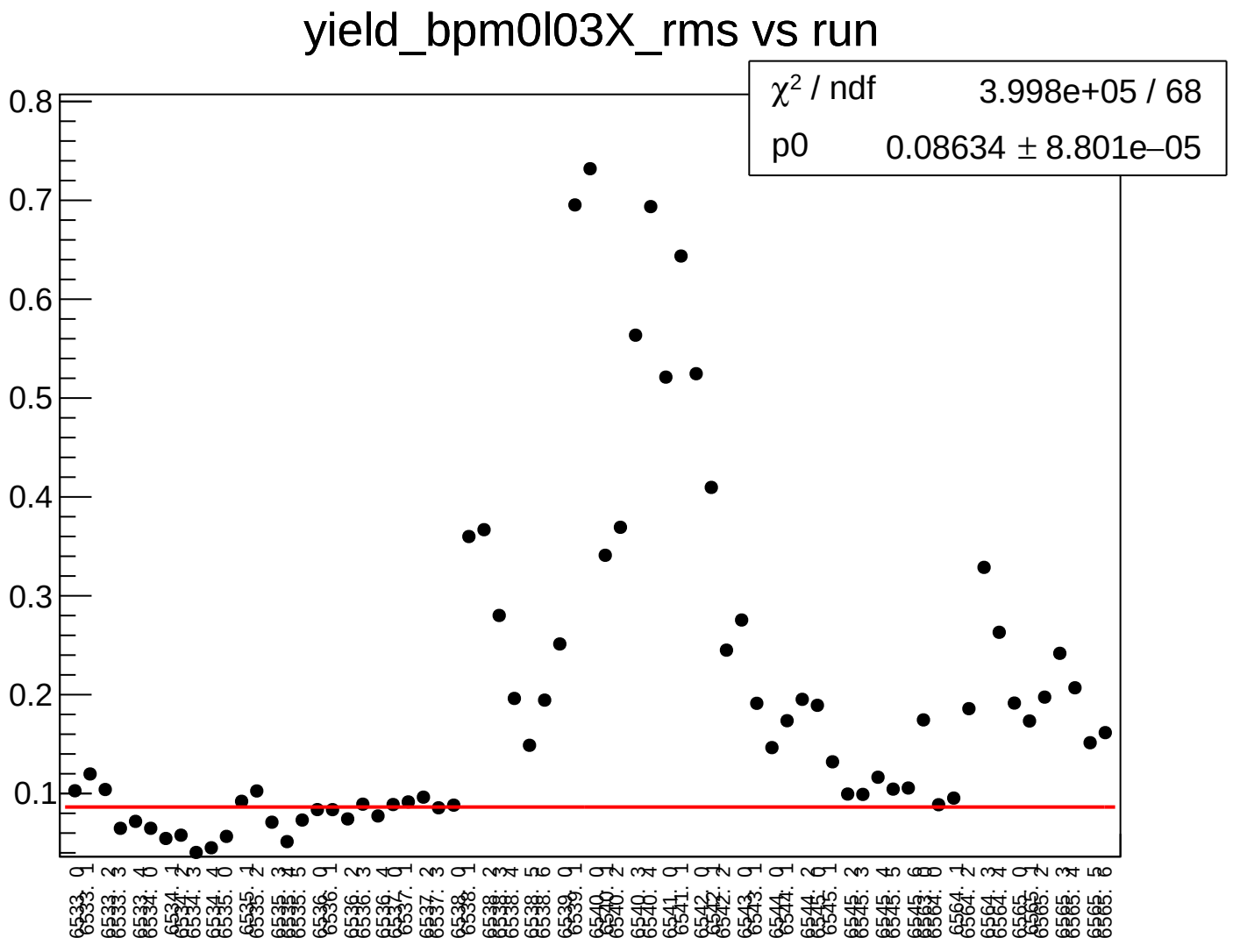

yield_bpm0l02Y_mean vs run
χ² / ndf 1.544e+07 / 68
p0 0.6507 ± 1.03e−05
pull
Entries 69
Mean 763.6
Std Dev 722

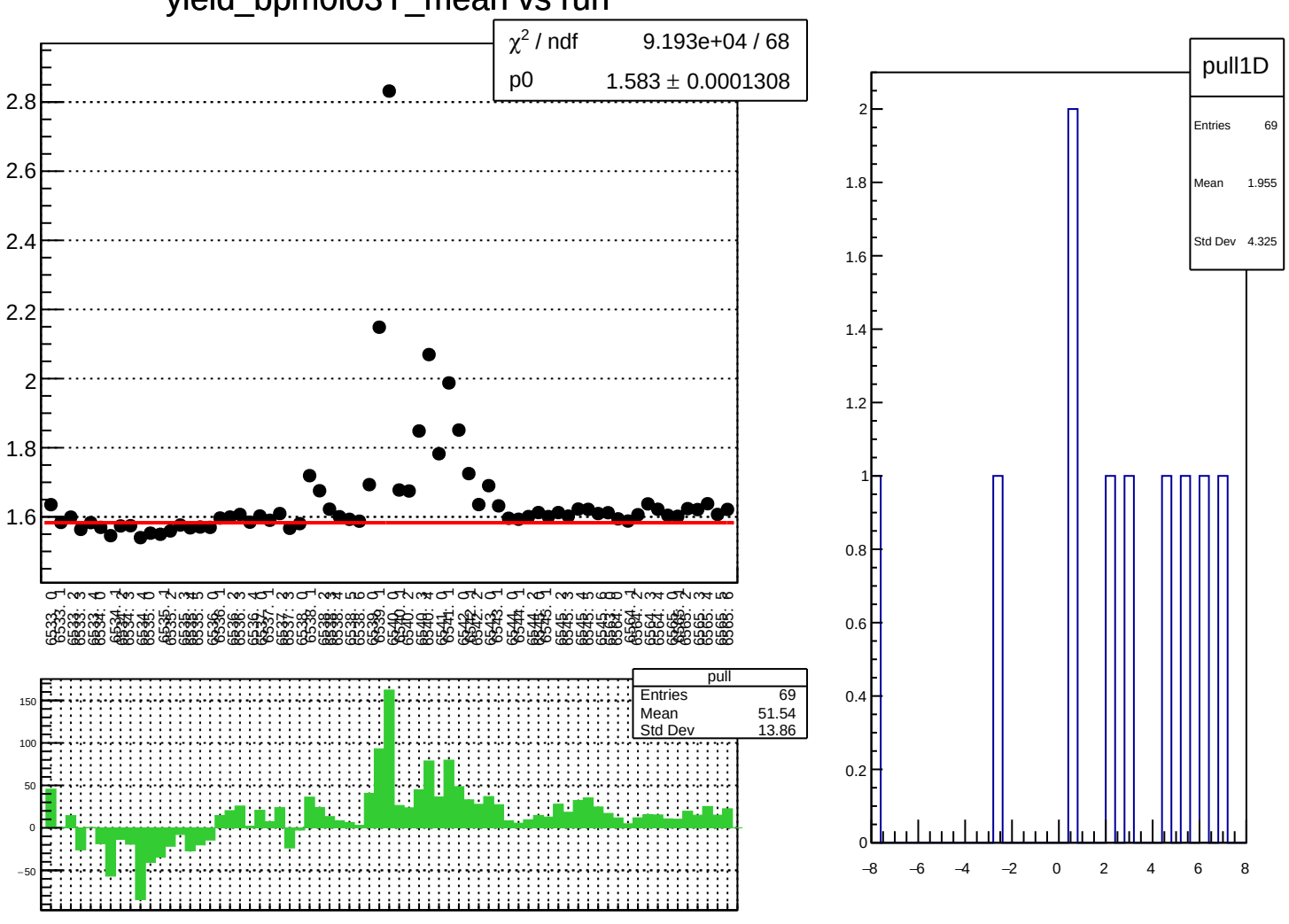

pull1D
Entries 69
Mean −5.798
Std Dev 0

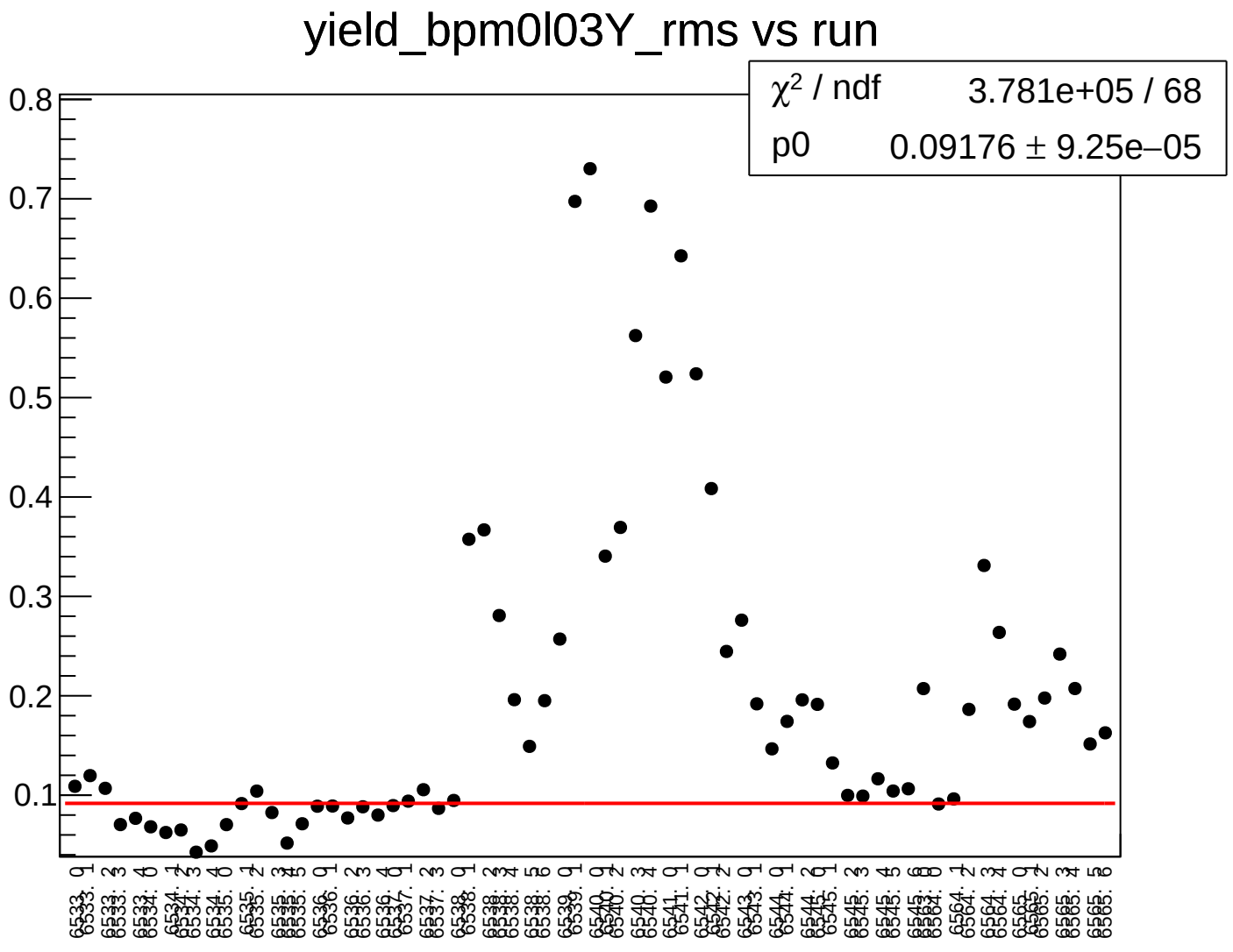

yield_bpm0l02Y_rms vs run
χ² / ndf 1.109e+05 / 68
p0 0.008146 ± 7.282e−06
0.03
0.025
0.02
0.015
0.01
0.005

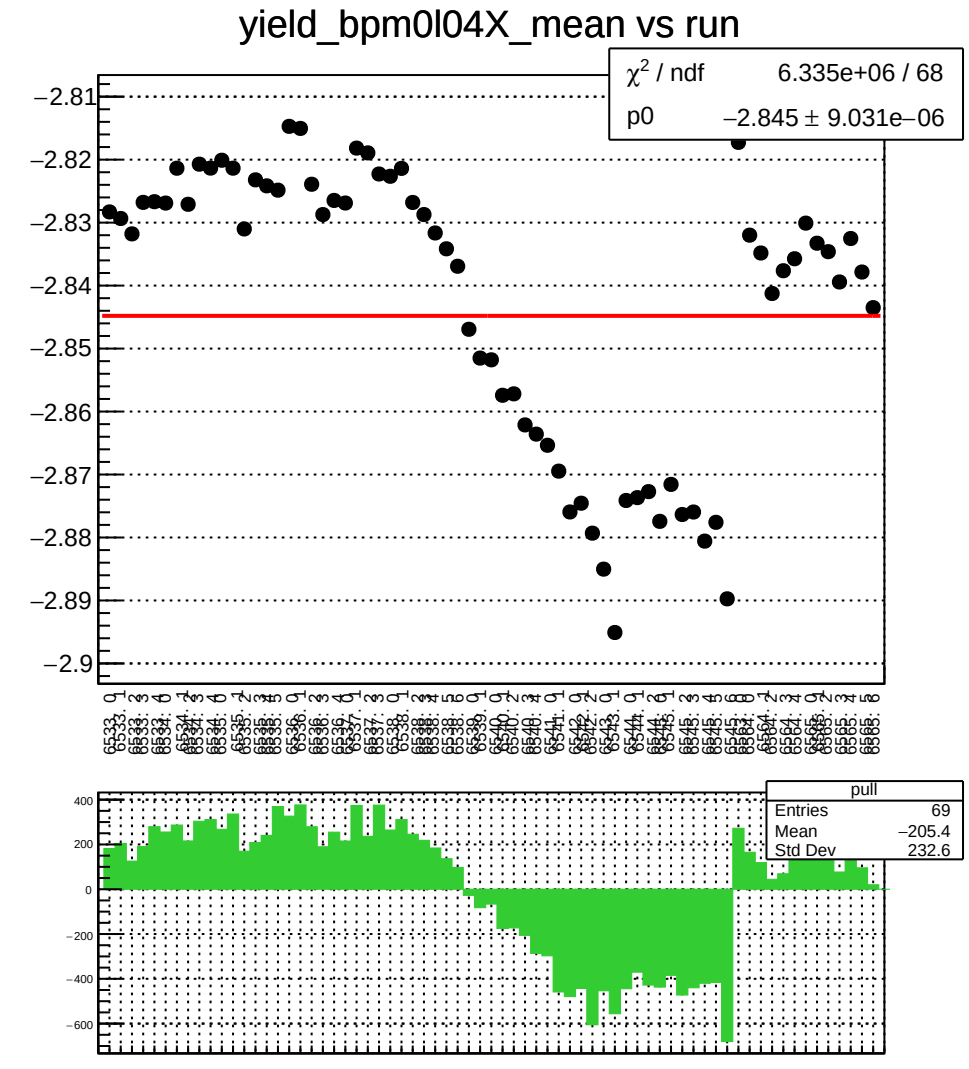

yield_bpm0l03X_mean vs run
χ² / ndf 1.764e+05 / 68
p0 −3.931 ± 0.0001245
−2.6
−2.8
−3
−3.2
−3.4
−3.6
−3.8
−4
−4.2
pull
Entries 69
Mean 626.5
Std Dev 586.9
150
100
50
0
−50
−100
−150

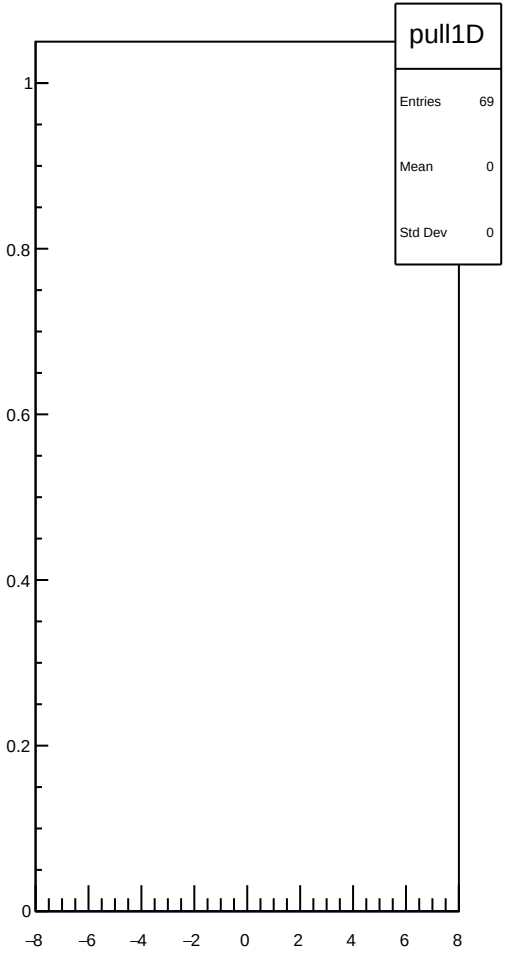

pull1D
Entries 69
Mean −1.656
Std Dev 3.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

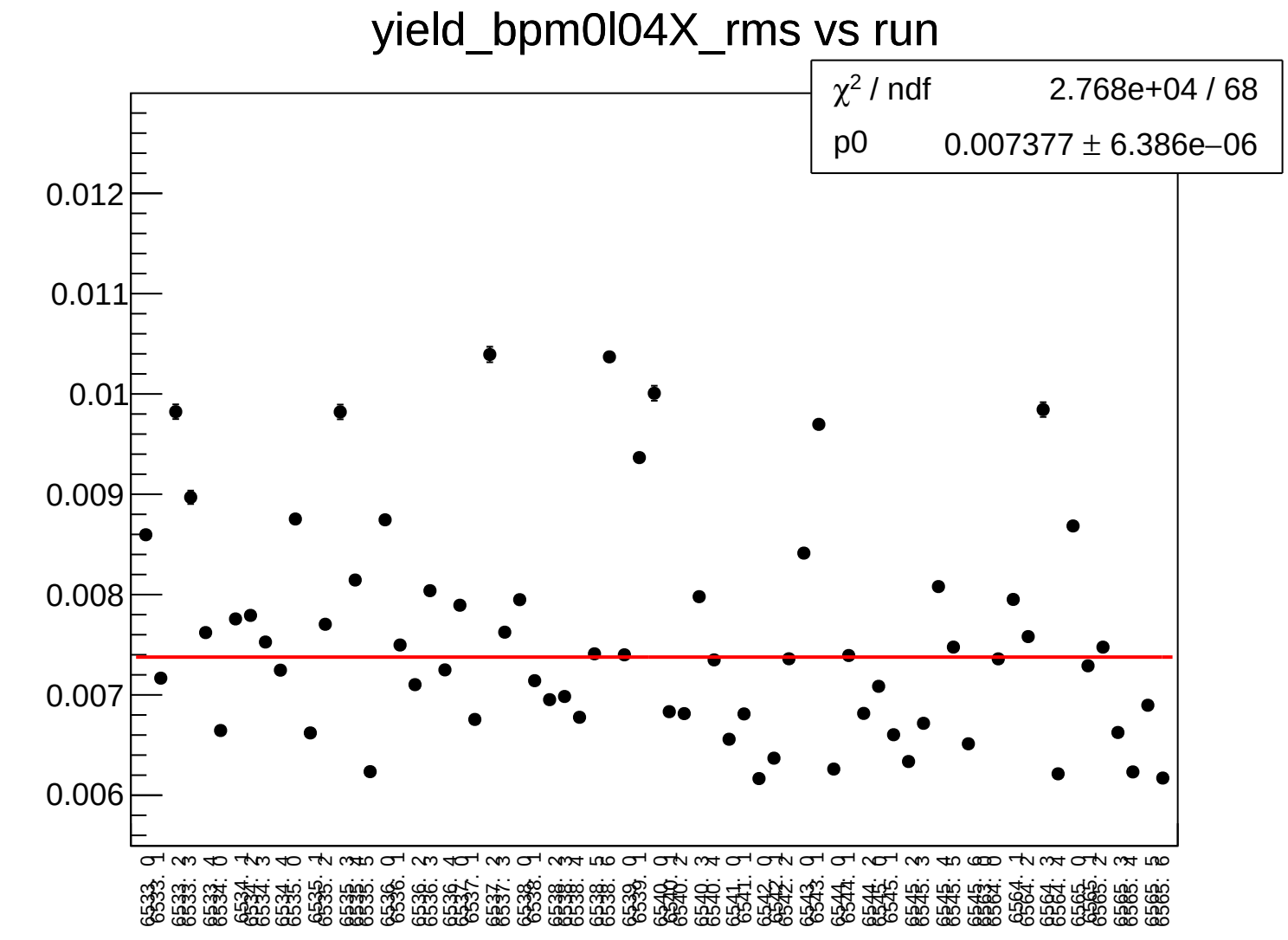

yield_bpm0l03X_rms vs run
χ² / ndf 3.998e+05 / 68
p0 0.08634 ± 8.801e–05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

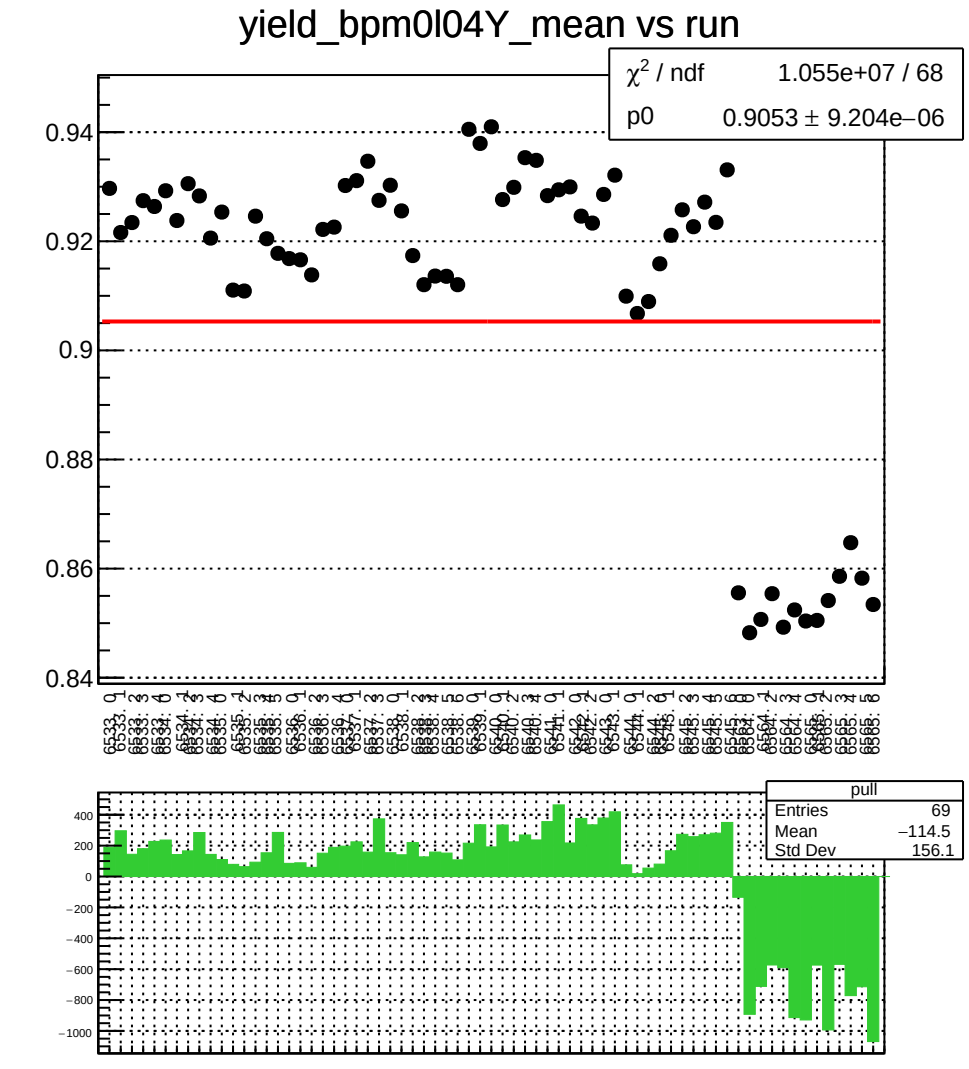

yield_bpm0l03Y_mean vs run
χ² / ndf 9.193e+04 / 68
p0 1.583 ± 0.0001308
pull
Entries 69
Mean 51.54
Std Dev 13.86
pull1D
Entries 69
Mean 1.955
Std Dev 4.325

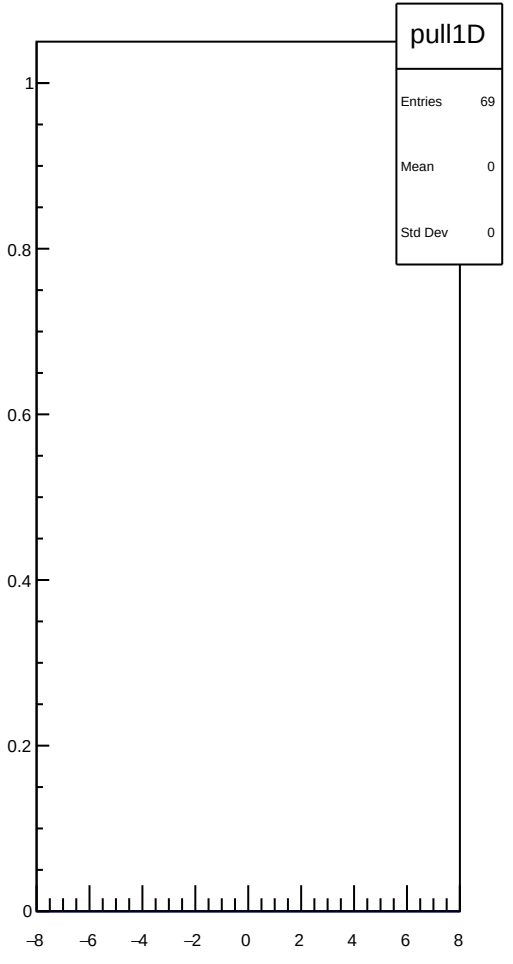

yield_bpm0l03Y_rms vs run
χ² / ndf 3.781e+05 / 68
p0 0.09176 ± 9.25e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

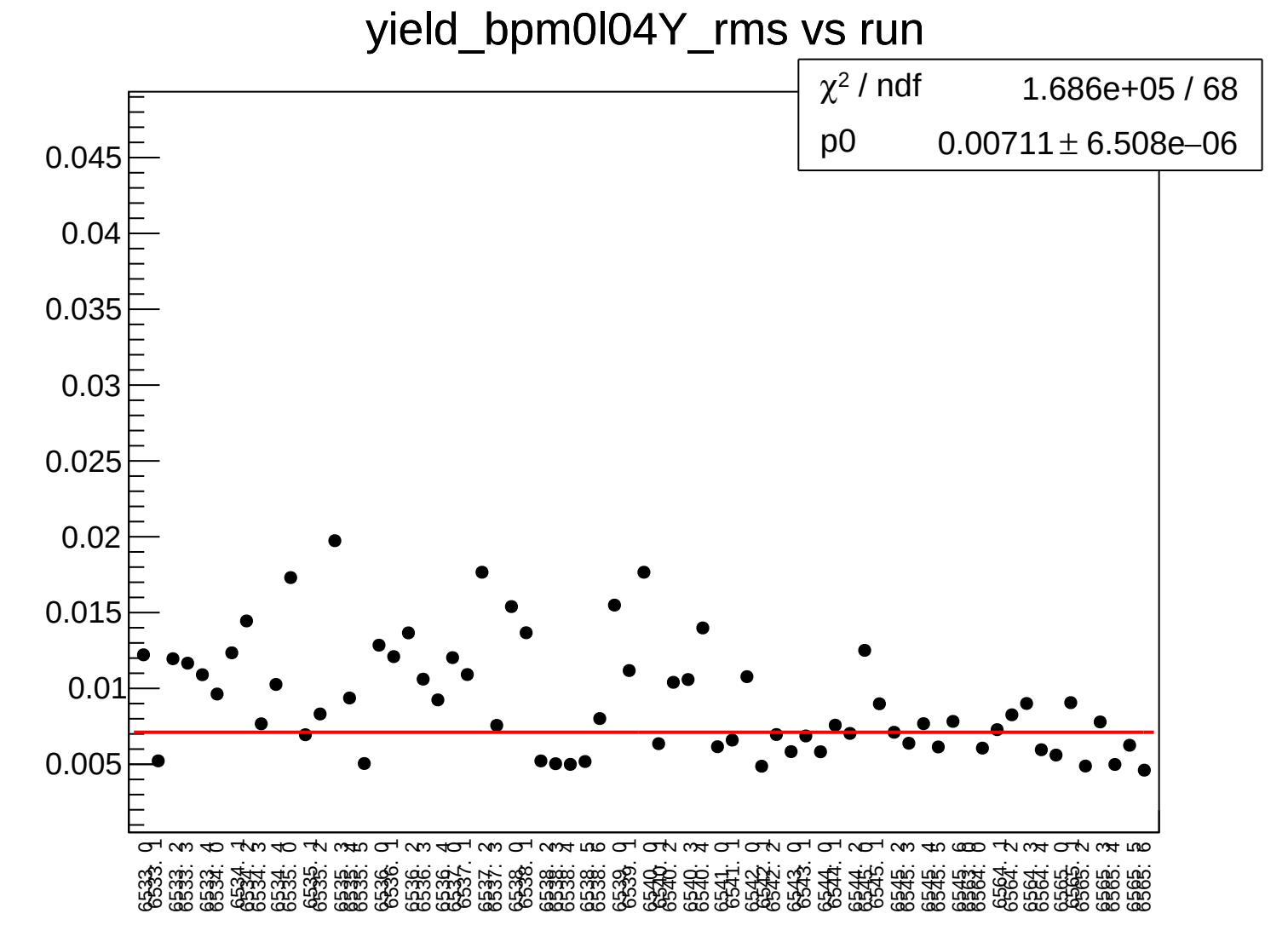

yield_bpm0l04X_mean vs run
χ² / ndf 6.335e+06 / 68
p0 −2.845 ± 9.031e−06
−2.81
−2.82
−2.83
−2.84
−2.85
−2.86
−2.87
−2.88
−2.89
−2.9
pull
Entries 69
Mean −205.4
Std Dev 232.6
400
200
0
−200
−400
−600

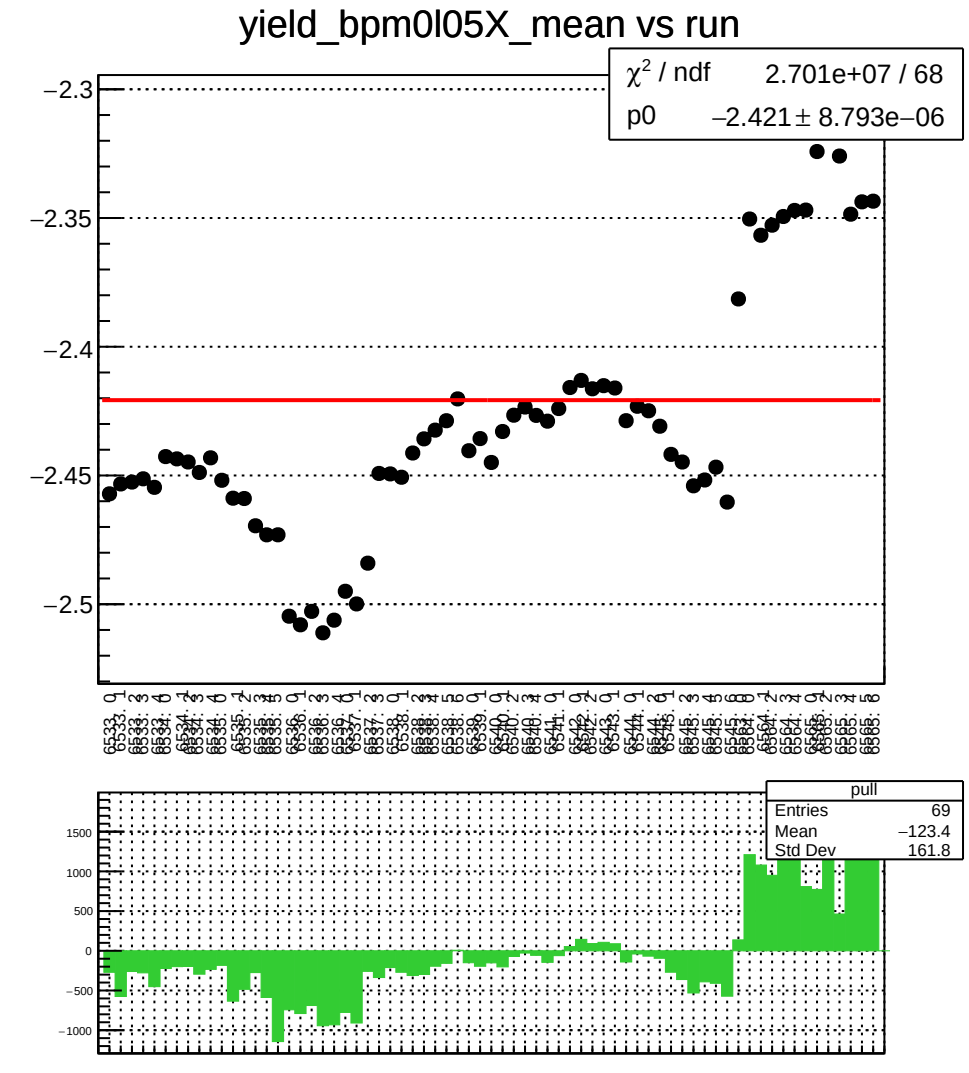

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

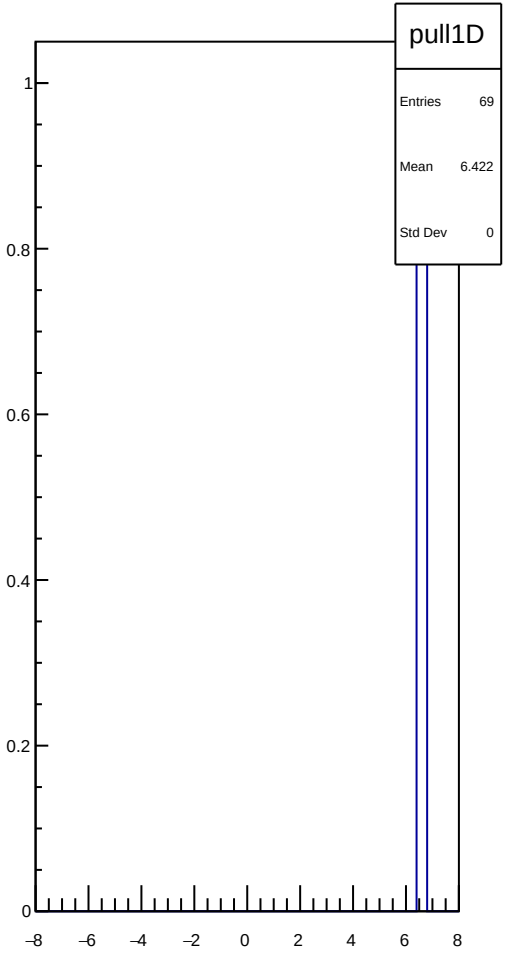

yield_bpm0l04X_rms vs run
χ² / ndf 2.768e+04 / 68
p0 0.007377 ± 6.386e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

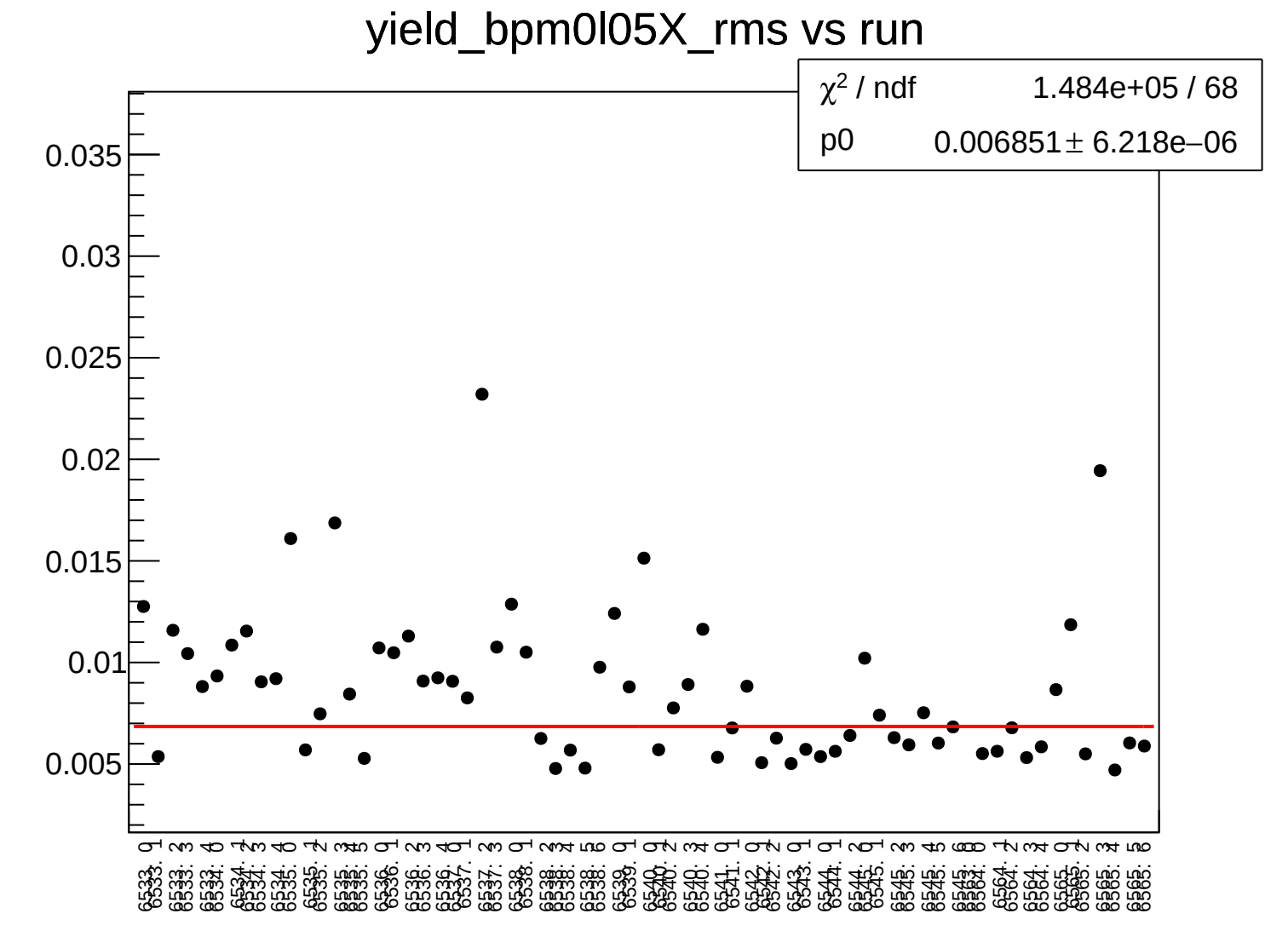

yield_bpm0l04Y_mean vs run
χ² / ndf 1.055e+07 / 68
p0 0.9053 ± 9.204e−06
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 69
Mean −114.5
Std Dev 156.1
400
200
0
−200
−400
−600
−800
−1000

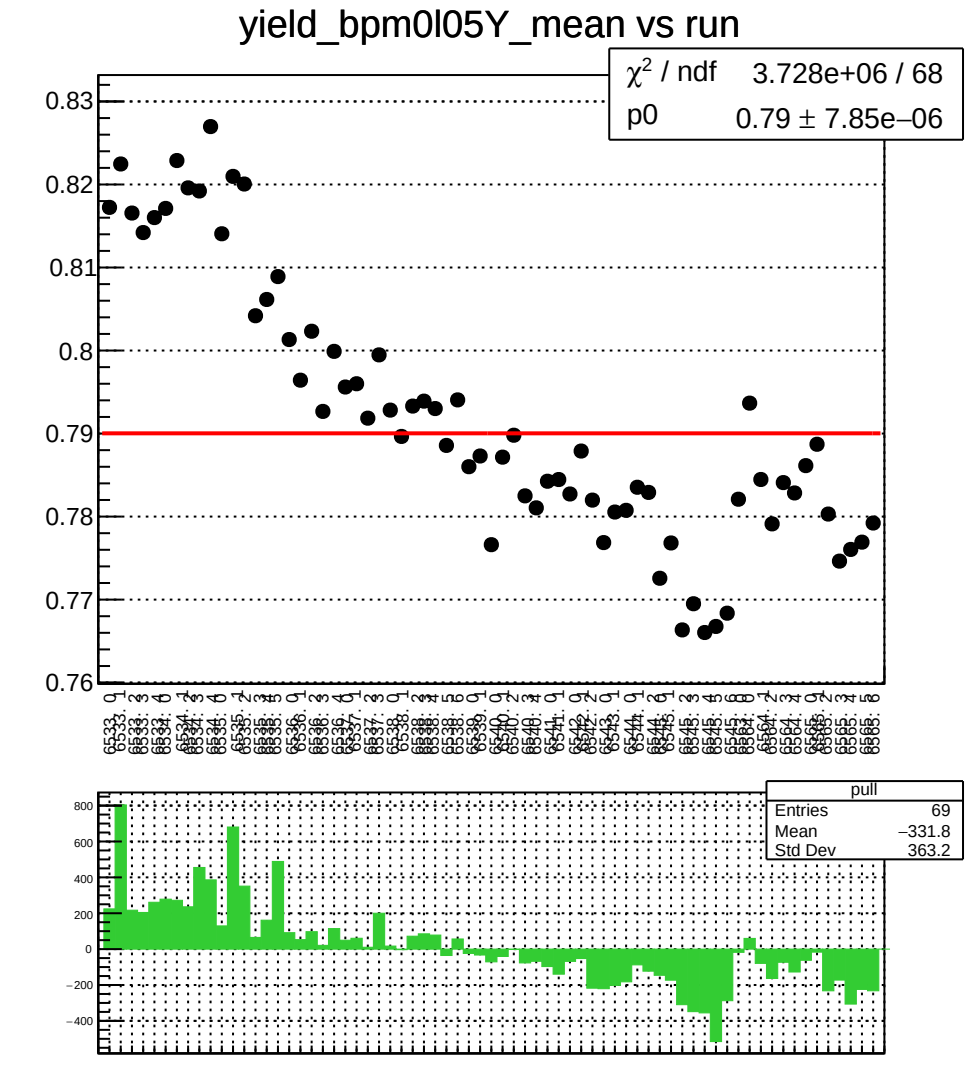

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

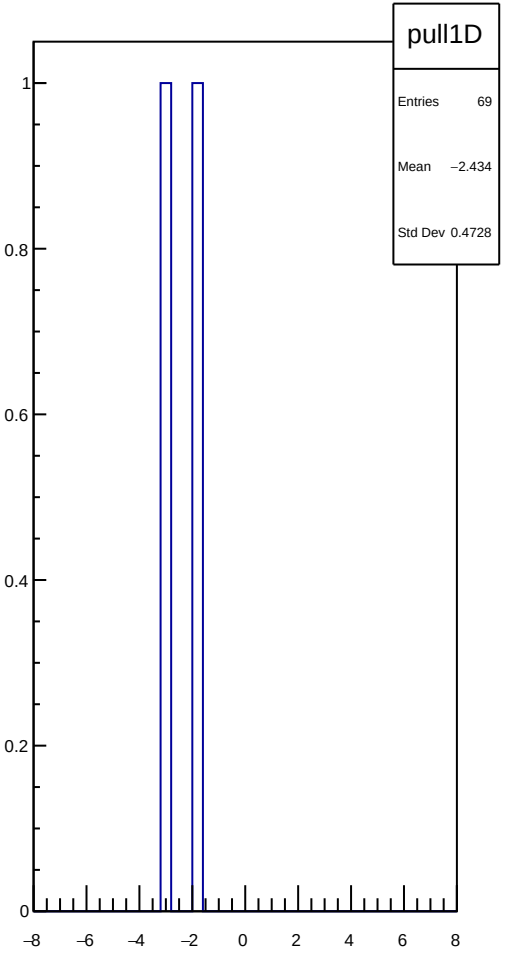

yield_bpm0l04Y_rms vs run
χ² / ndf 1.686e+05 / 68
p0 0.00711 ± 6.508e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

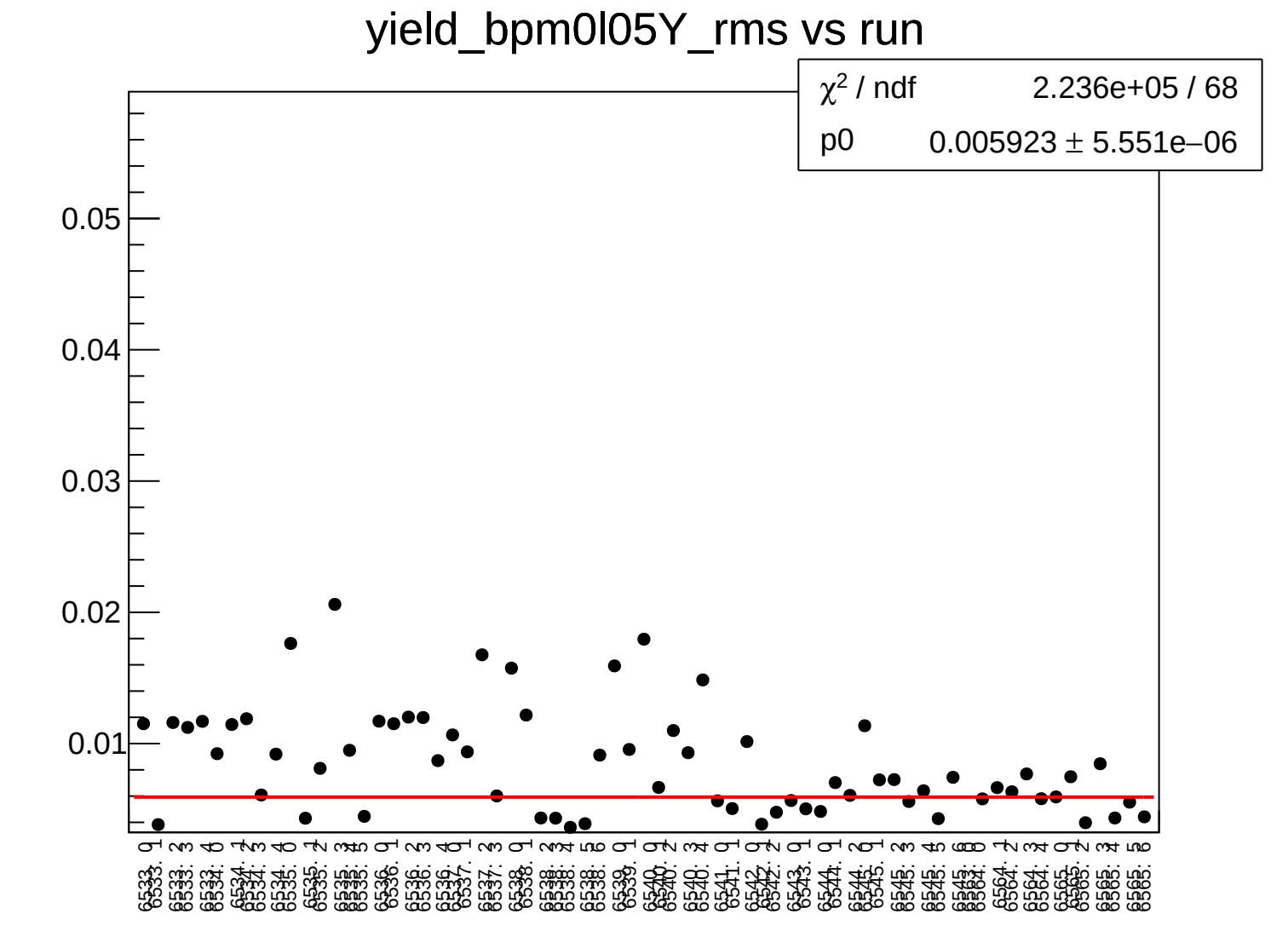

yield_bpm0l05X_mean vs run
χ² / ndf 2.701e+07 / 68
p0 −2.421 ± 8.793e−06
−2.3
−2.35
−2.4
−2.45
−2.5
pull
Entries 69
Mean −123.4
Std Dev 161.8
1500
1000
500
0
−500
−1000

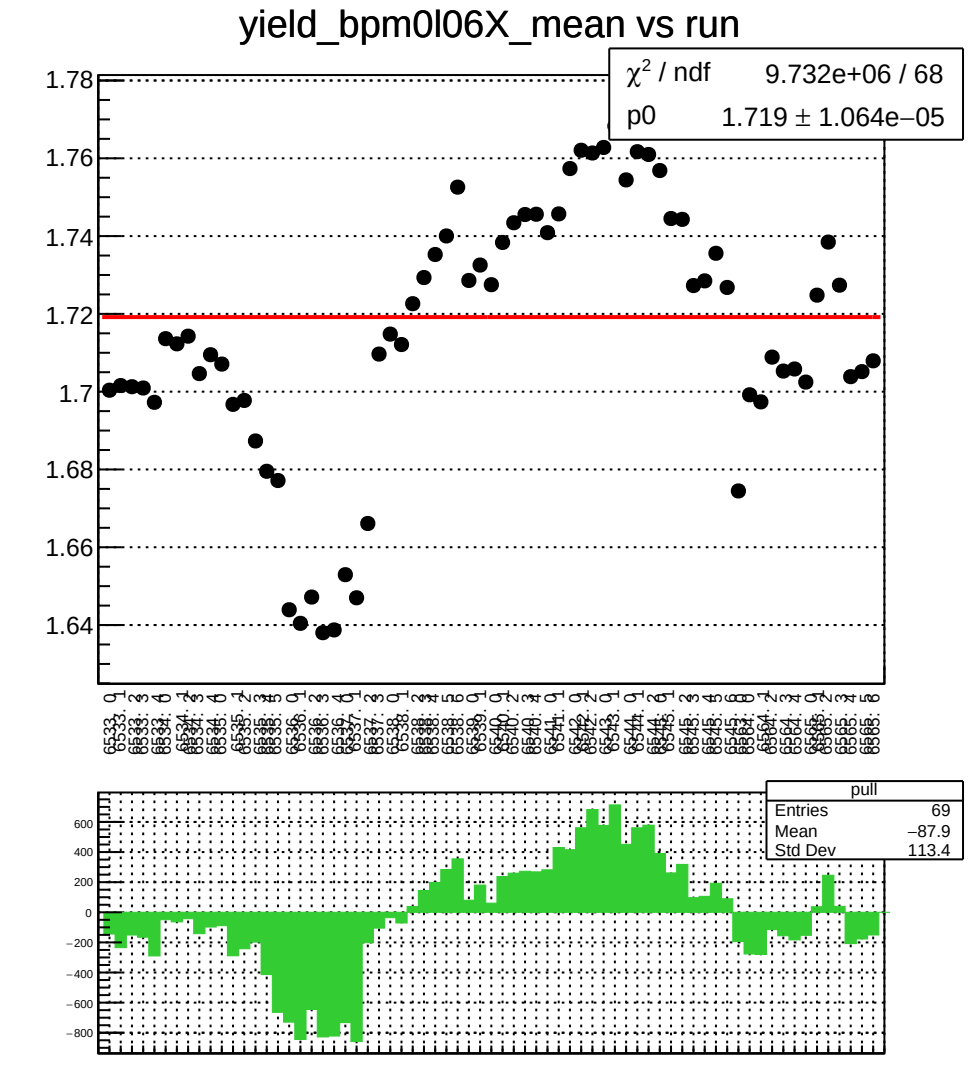

pull1D
Entries 69
Mean 6.422
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

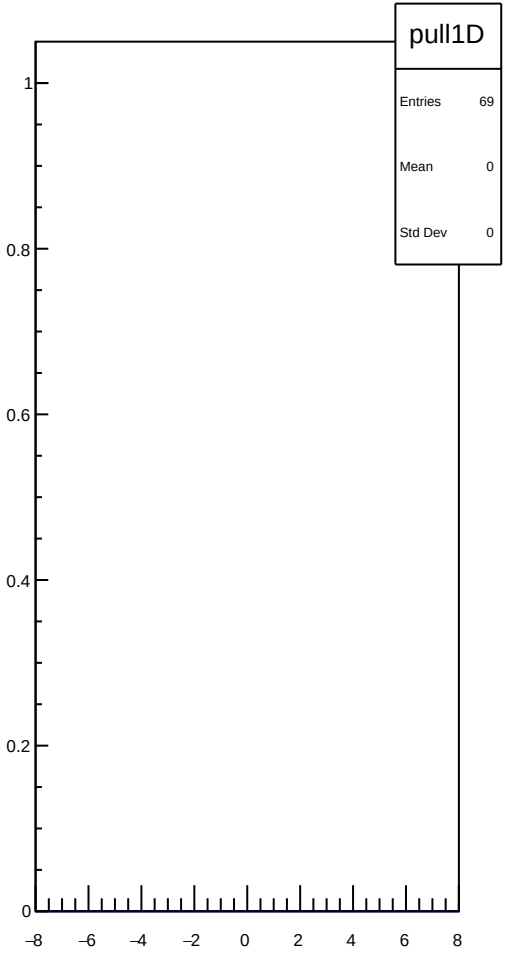

yield_bpm0l05X_rms vs run
χ² / ndf 1.484e+05 / 68
p0 0.006851 ± 6.218e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

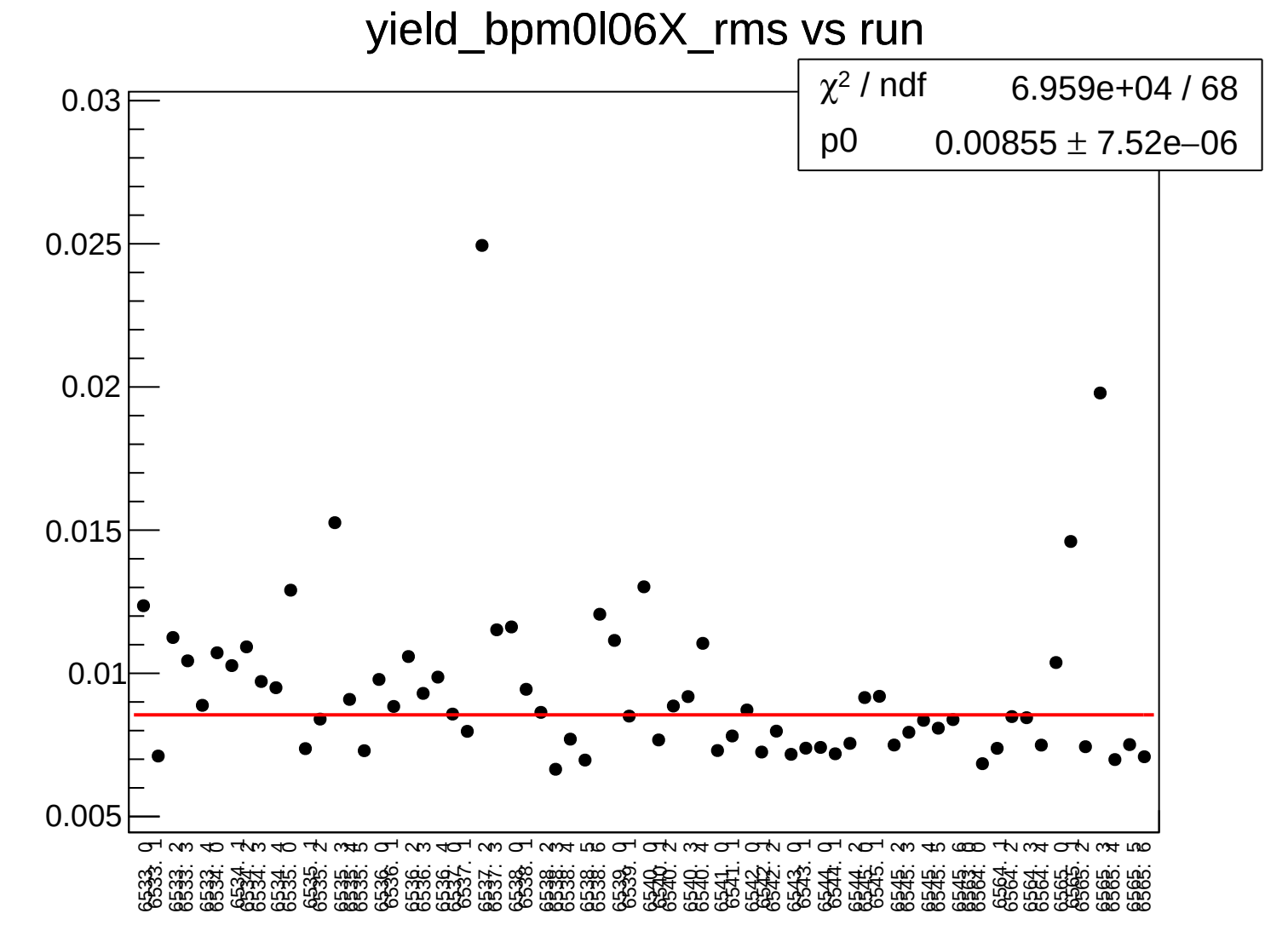

yield_bpm0l05Y_mean vs run
χ² / ndf 3.728e+06 / 68
p0 0.79 ± 7.85e−06
0.83
0.82
0.81
0.8
0.79
0.78
0.77
0.76
pull
Entries 69
Mean −331.8
Std Dev 363.2
800
600
400
200
0
−200
−400

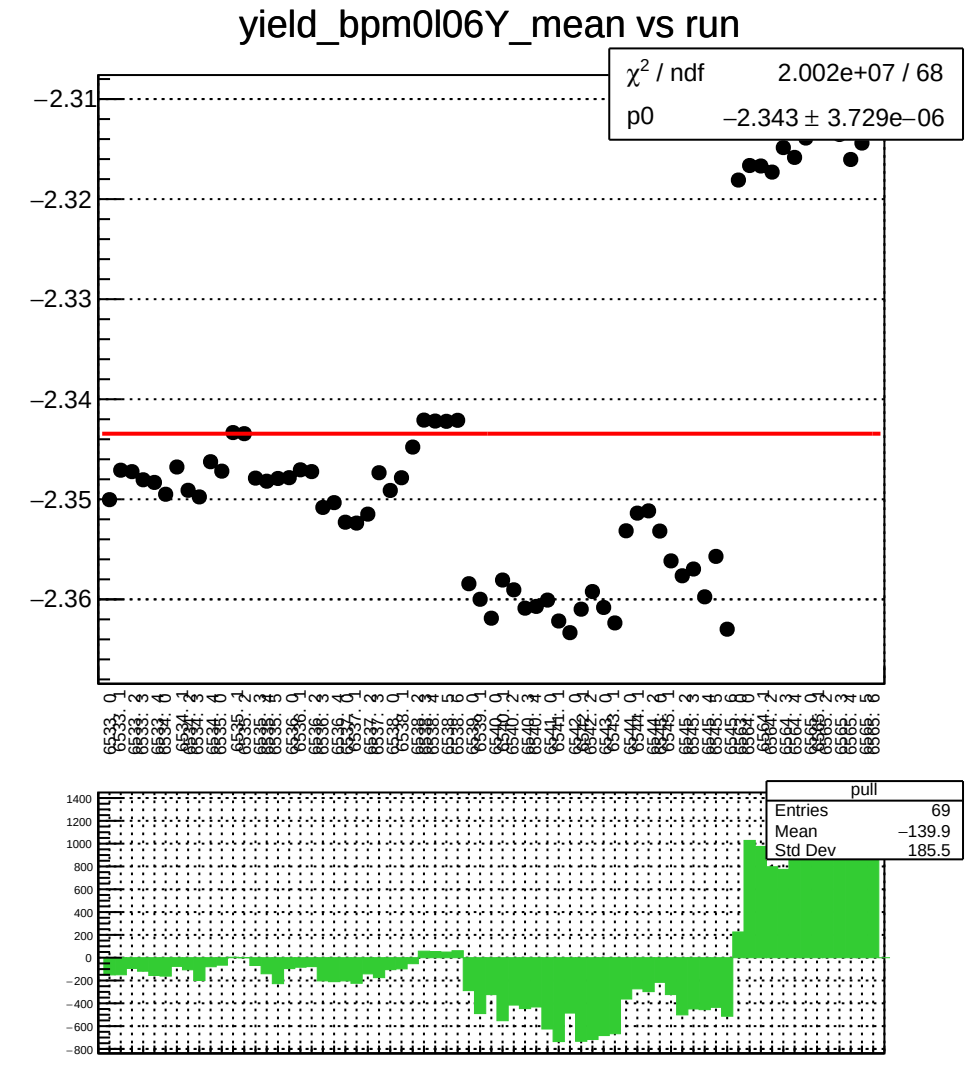

pull1D
Entries 69
Mean −2.434
Std Dev 0.4728
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

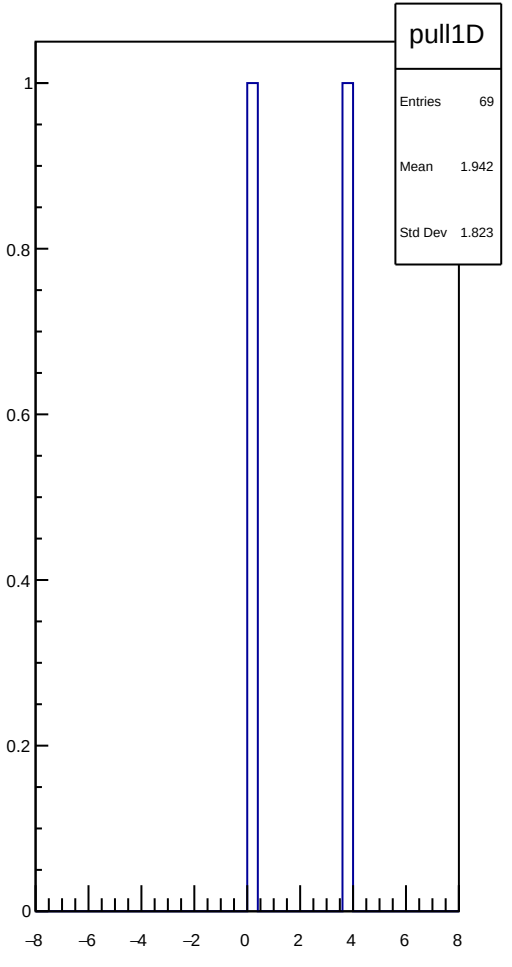

yield_bpm0l05Y_rms vs run
χ² / ndf 2.236e+05 / 68
p0 0.005923 ± 5.551e−06
0.05
0.04
0.03
0.02
0.01

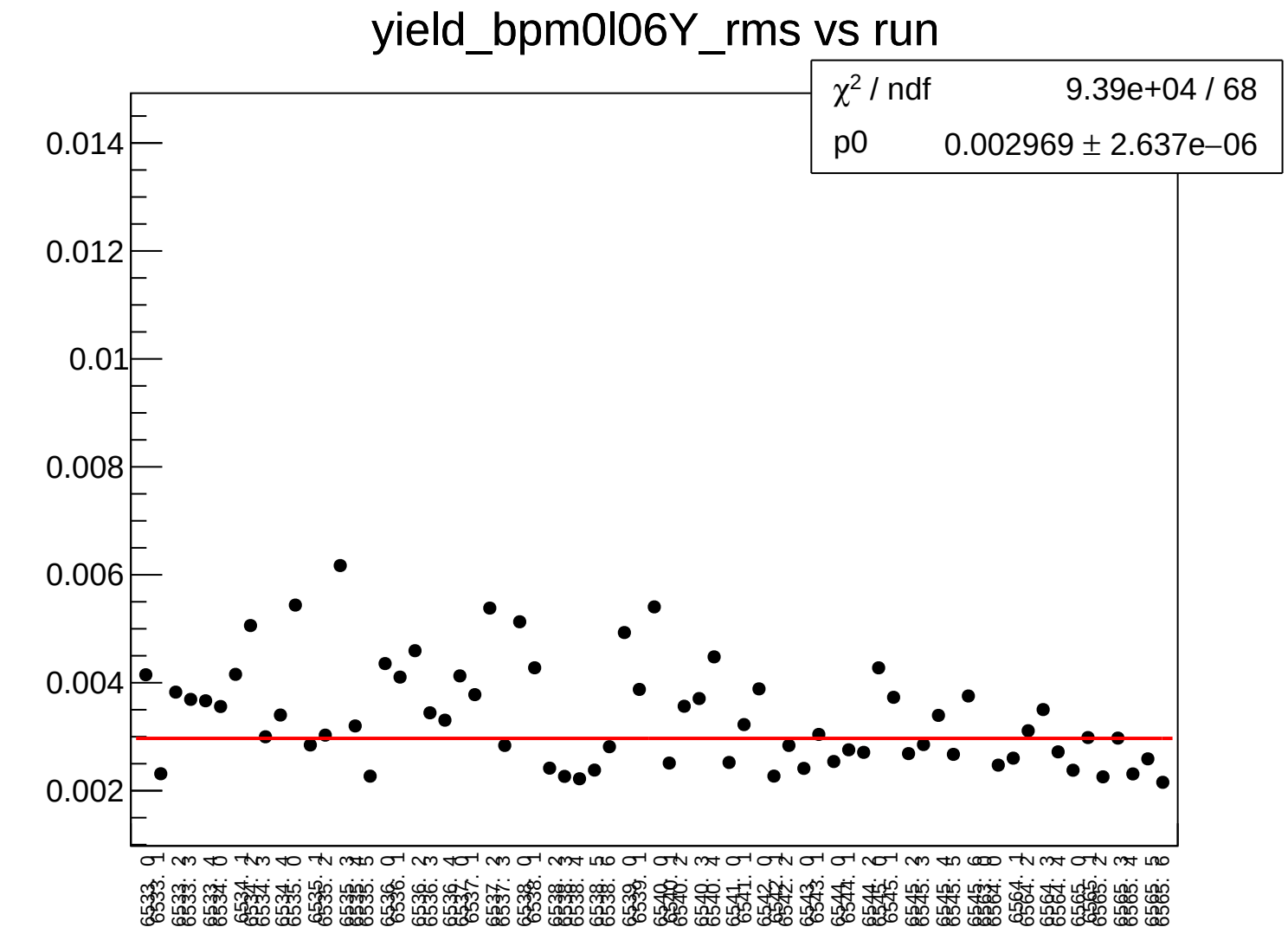

yield_bpm0l06X_mean vs run
χ² / ndf 9.732e+06 / 68
p0 1.719 ± 1.064e−05
1.78
1.76
1.74
1.72
1.7
1.68
1.66
1.64
pull
Entries 69
Mean −87.9
Std Dev 113.4
600
400
200
0
−200
−400
−600
−800

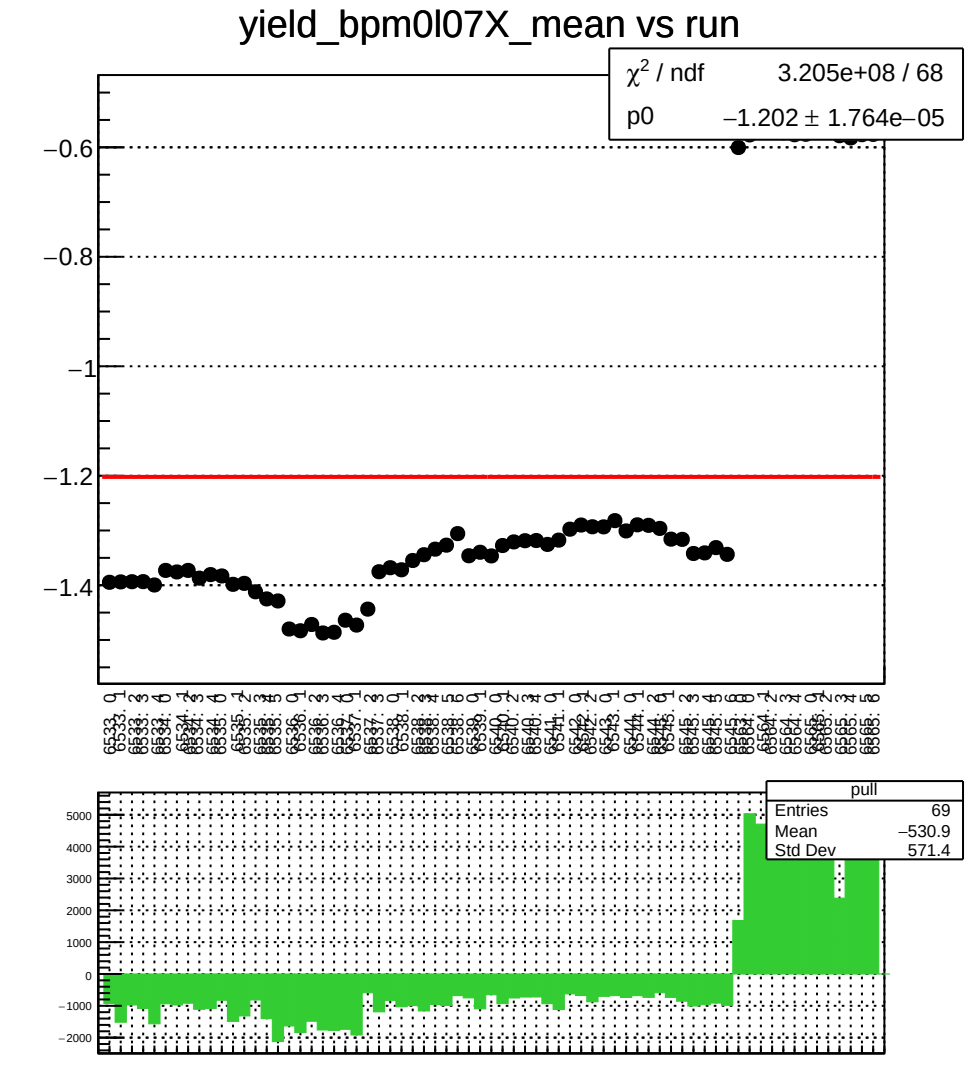

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

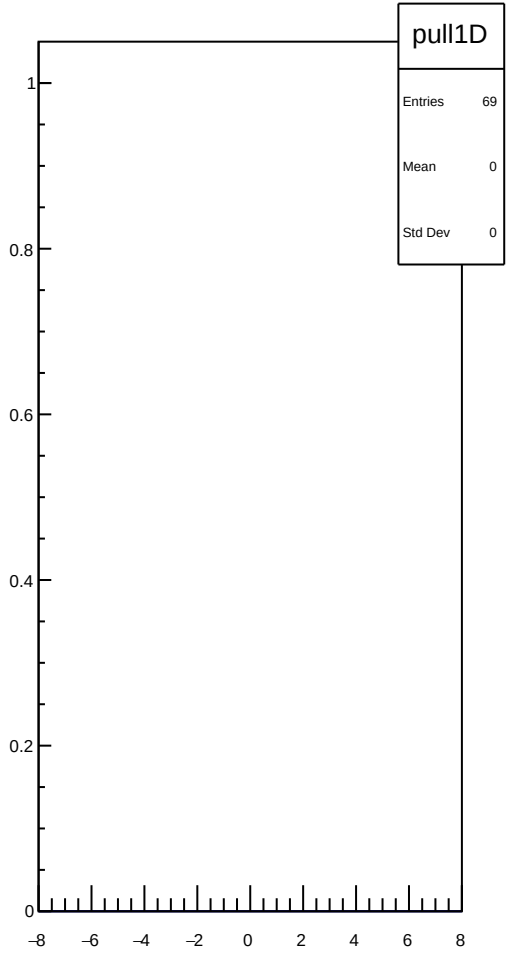

yield_bpm0l06X_rms vs run
χ² / ndf 6.959e+04 / 68
p0 0.00855 ± 7.52e−06
0.03
0.025
0.02
0.015
0.01
0.005

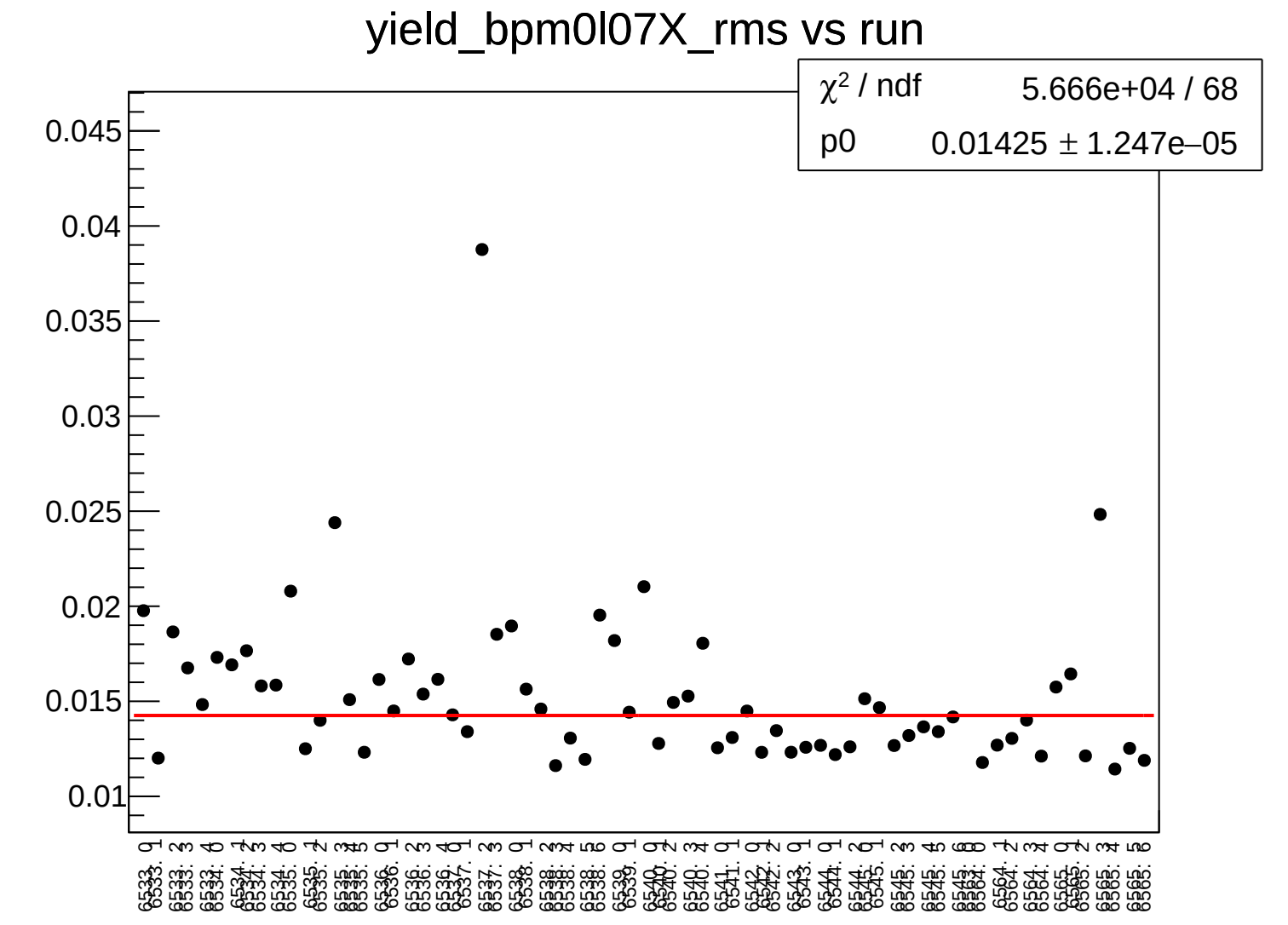

yield_bpm0l06Y_mean vs run
χ² / ndf 2.002e+07 / 68
p0 −2.343 ± 3.729e−06
−2.31
−2.32
−2.33
−2.34
−2.35
−2.36
pull
Entries 69
Mean −139.9
Std Dev 185.5
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

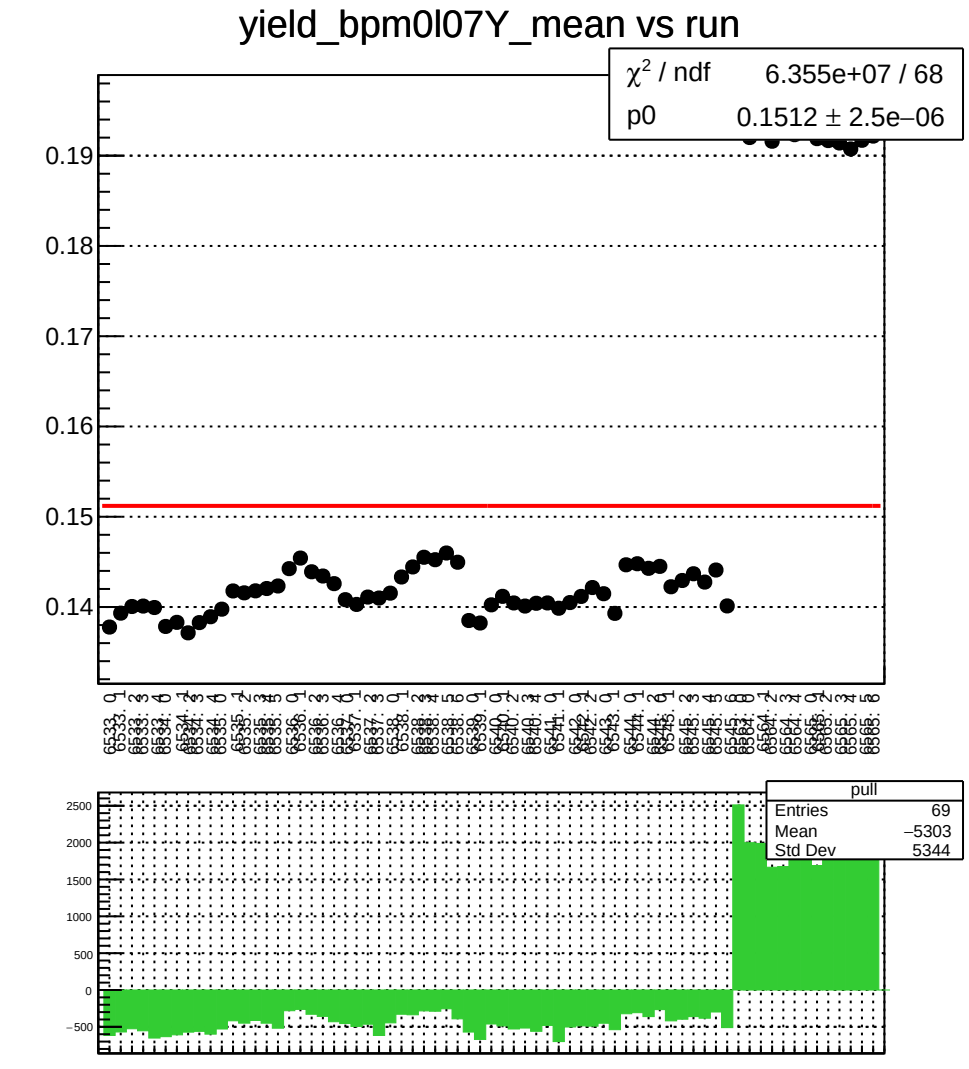

pull1D
Entries 69
Mean 1.942
Std Dev 1.823
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

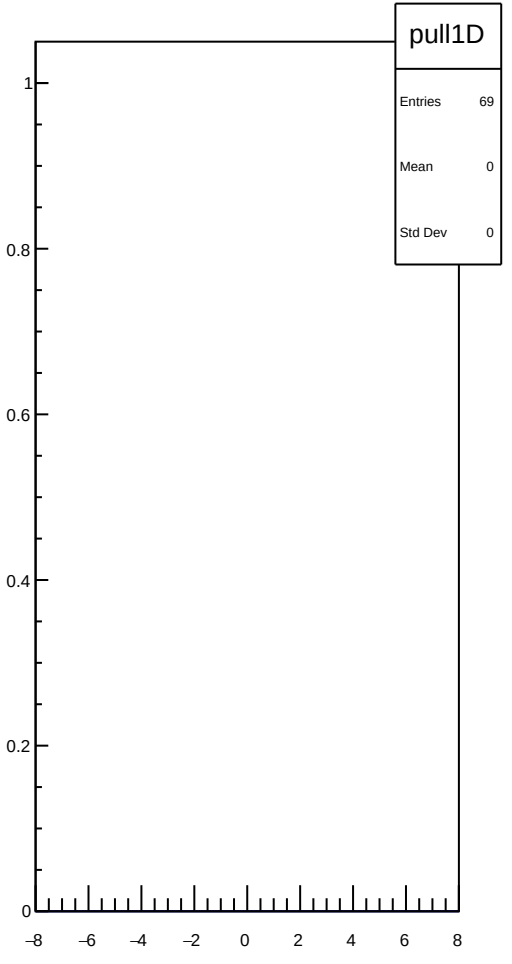

yield_bpm0l06Y_rms vs run
χ² / ndf 9.39e+04 / 68
p0 0.002969 ± 2.637e−06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

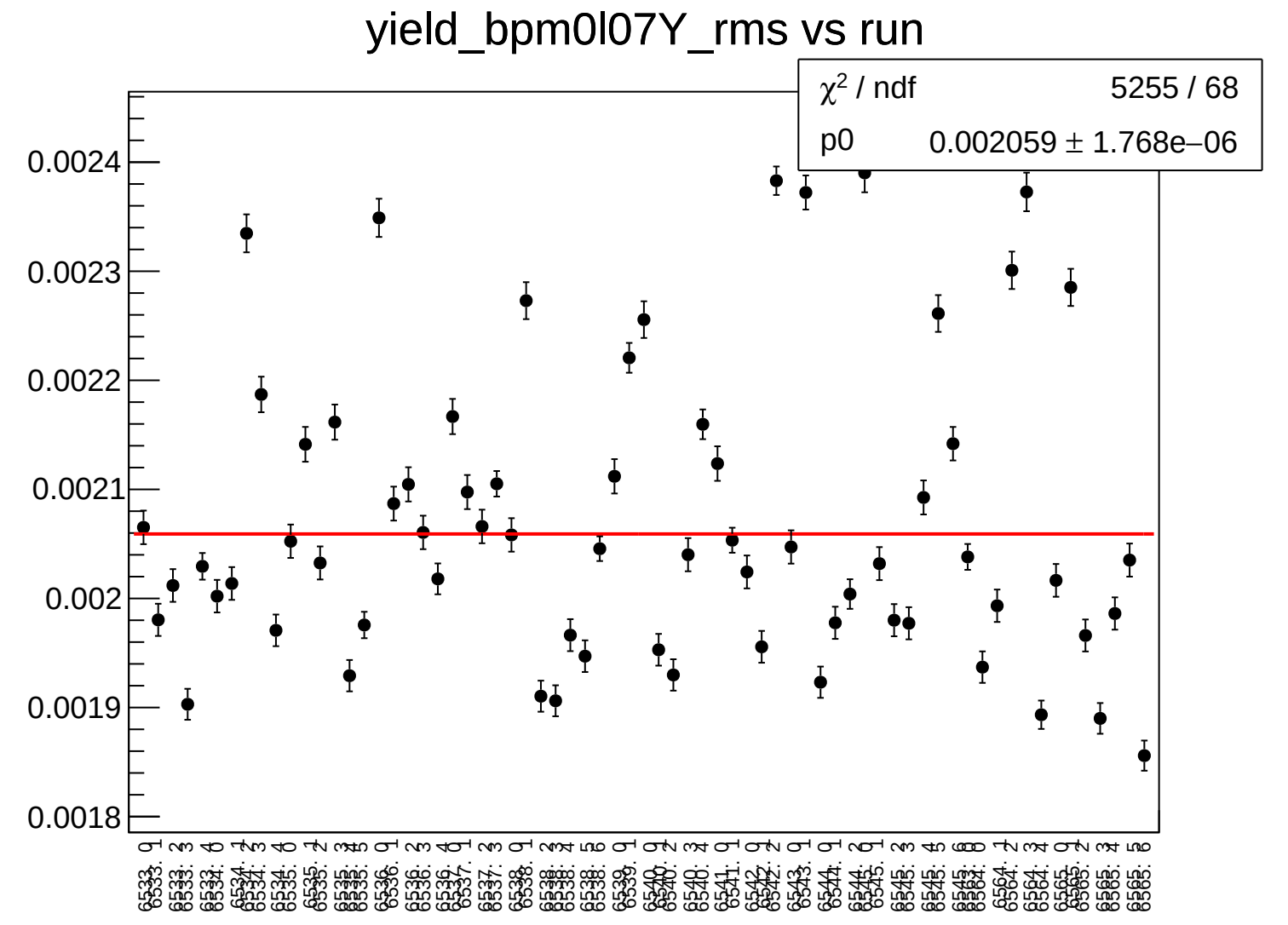

yield_bpm0l07X_mean vs run
χ² / ndf 3.205e+08 / 68
p0 −1.202 ± 1.764e−05
−0.6
−0.8
−1
−1.2
−1.4
pull
Entries 69
Mean −530.9
Std Dev 571.4
5000
4000
3000
2000
1000
0
−1000
−2000

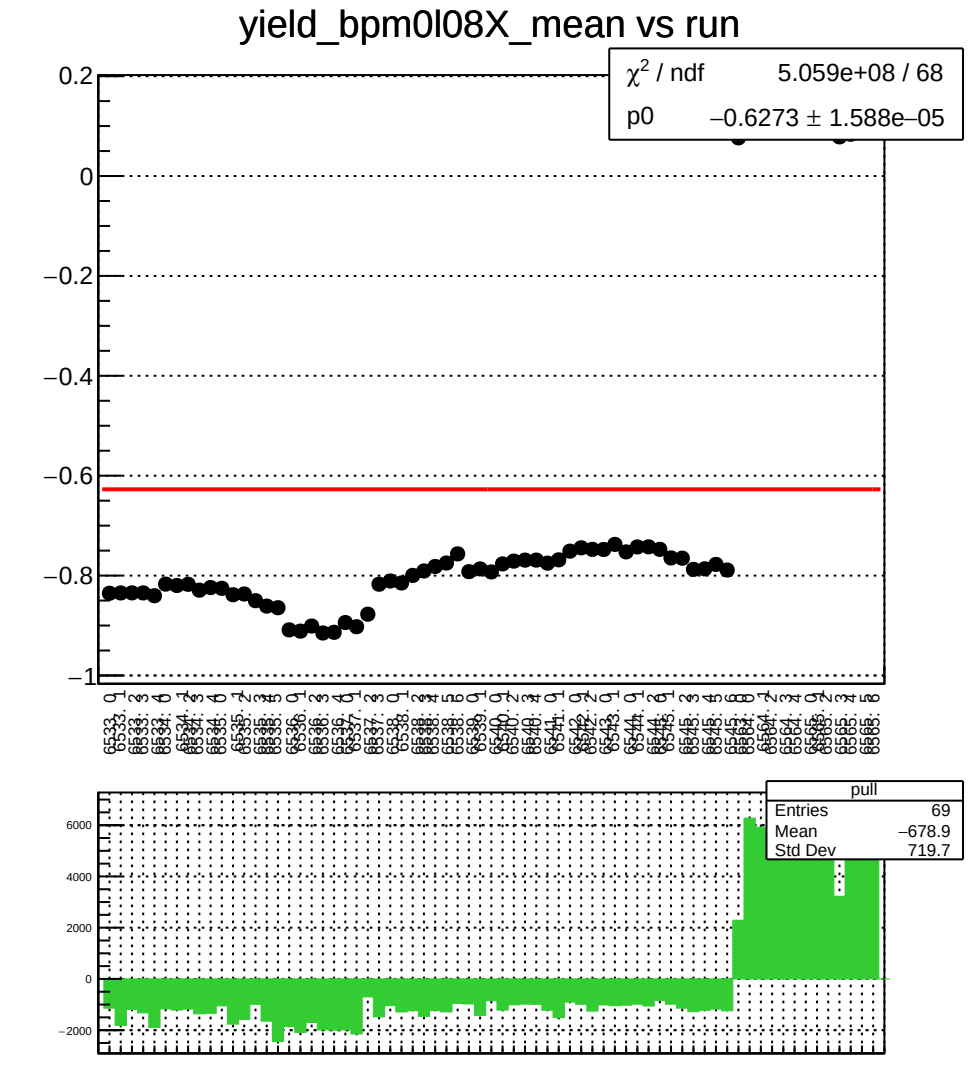

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

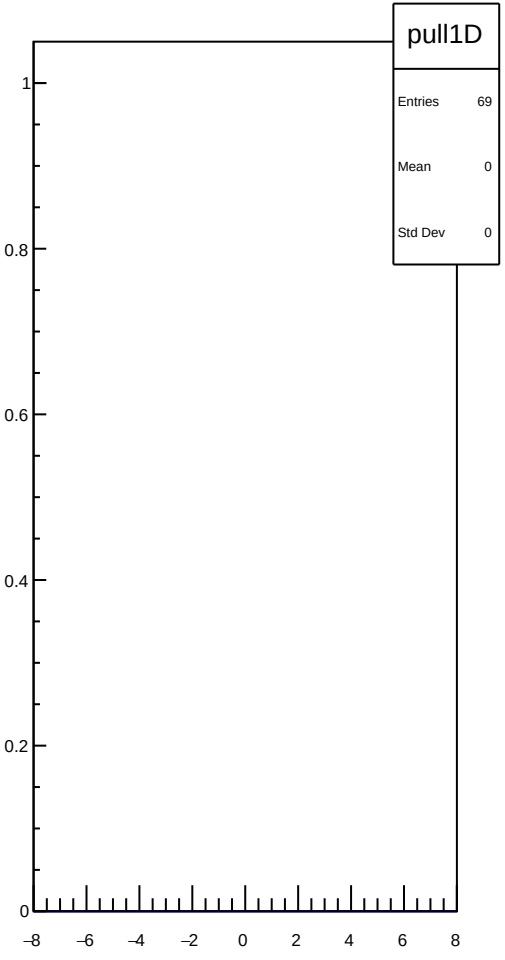

yield_bpm0l07X_rms vs run
χ² / ndf 5.666e+04 / 68
p0 0.01425 ± 1.247e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

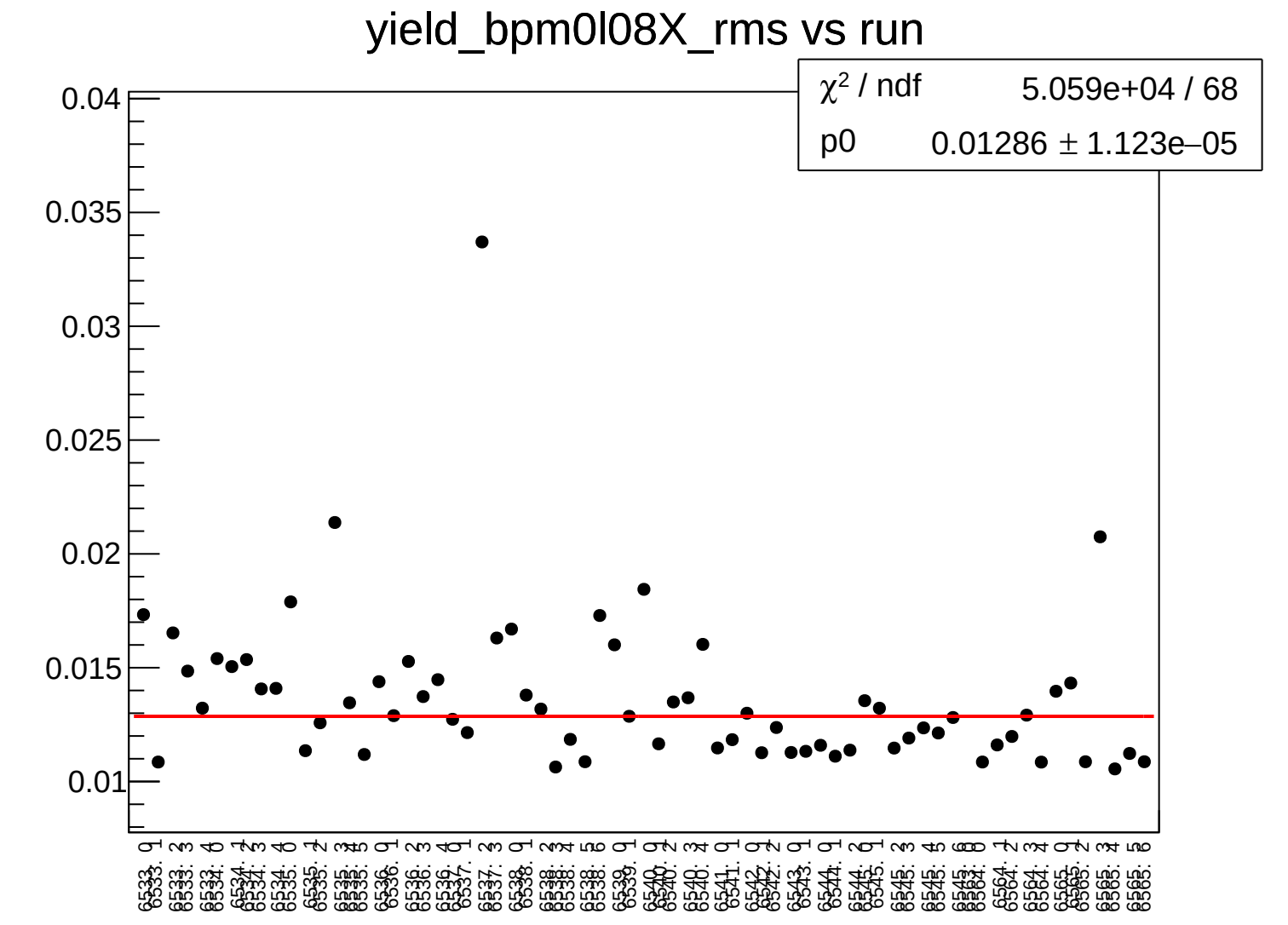

yield_bpm0l07Y_mean vs run
χ² / ndf 6.355e+07 / 68
p0 0.1512 ± 2.5e−06
0.19
0.18
0.17
0.16
0.15
0.14
pull
Entries 69
Mean −5303
Std Dev 5344
2500
2000
1500
1000
500
0
−500

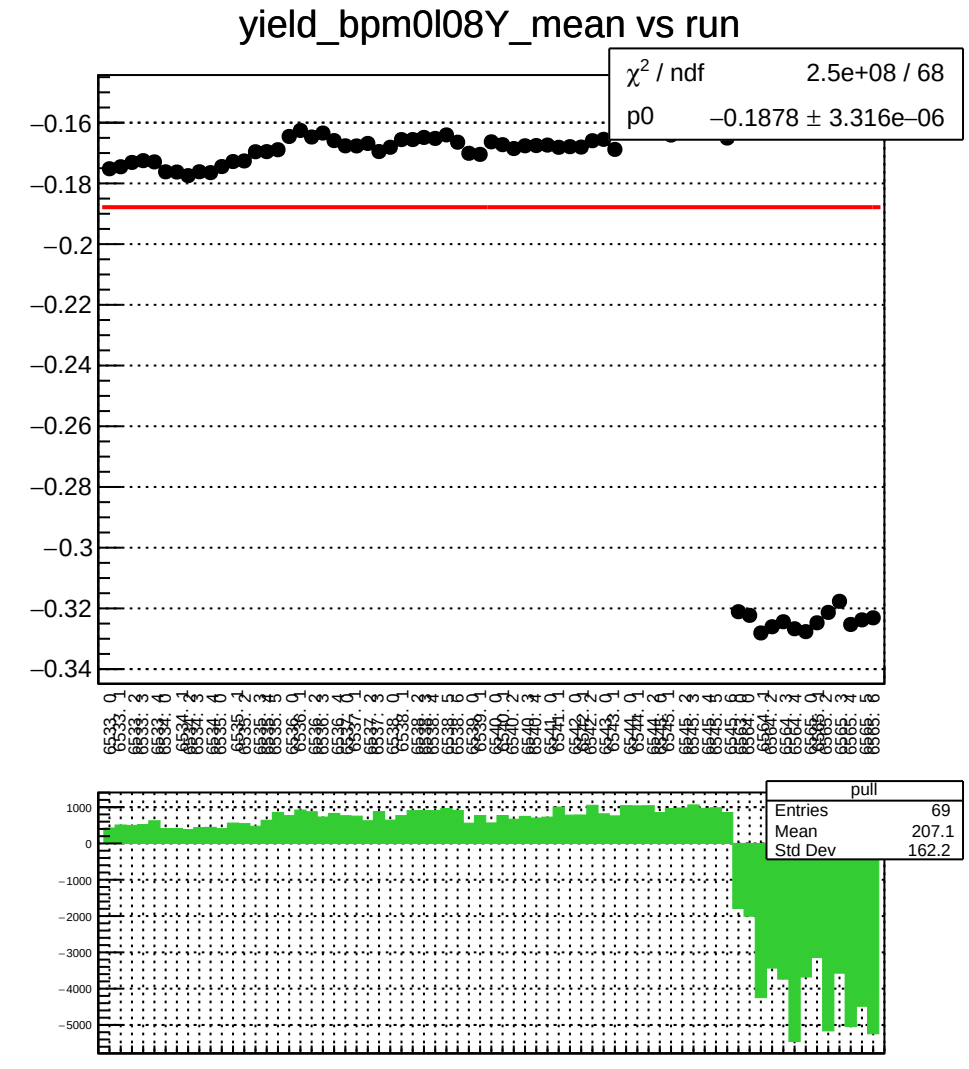

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

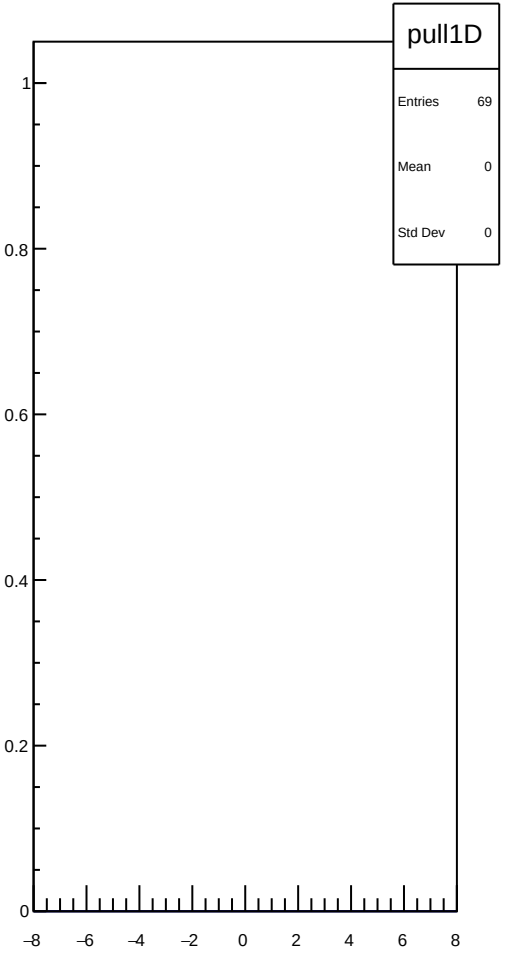

yield_bpm0l07Y_rms vs run
χ² / ndf 5255 / 68
p0 0.002059 ± 1.768e−06
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

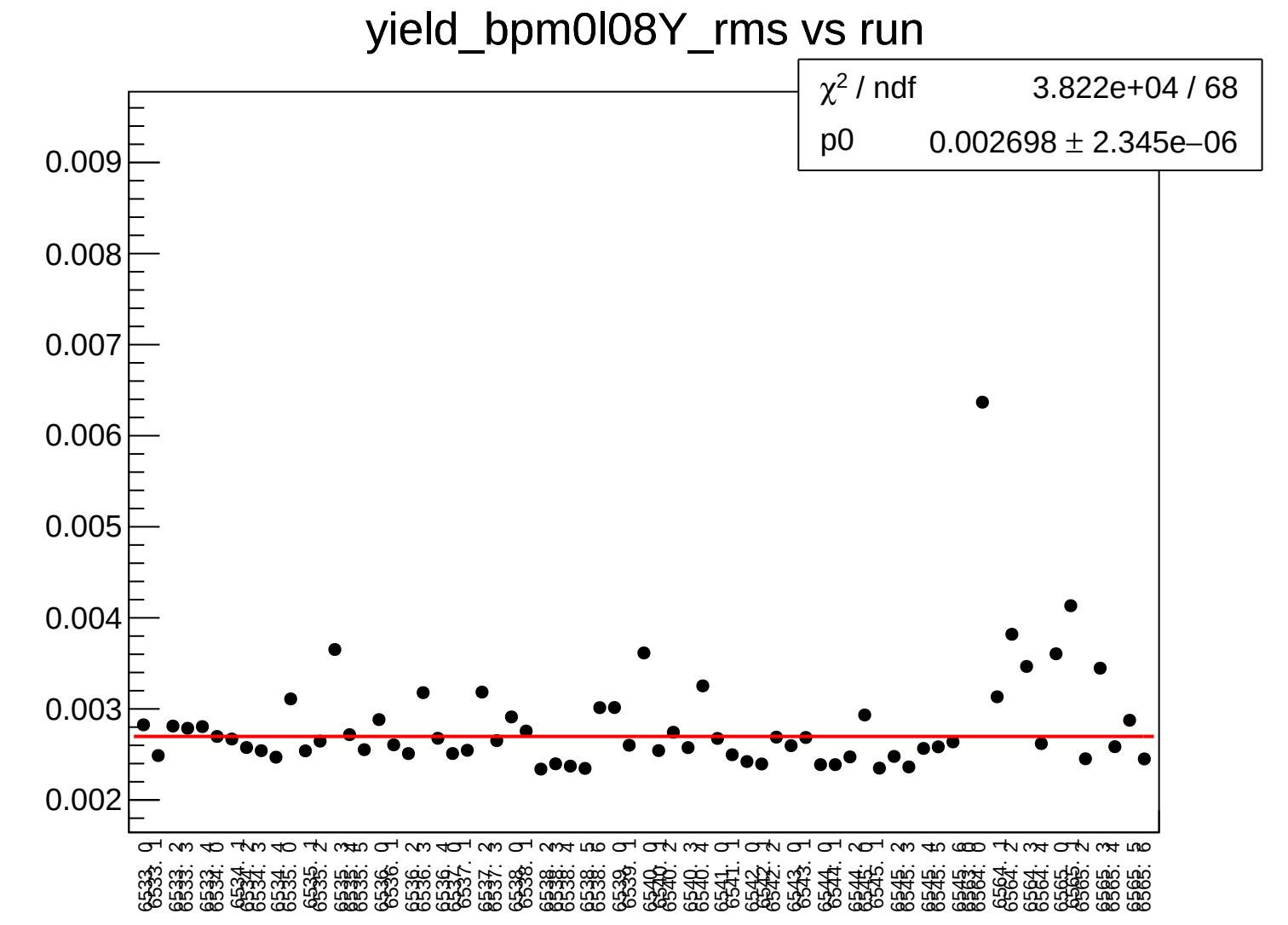

yield_bpm0l08X_mean vs run
χ² / ndf 5.059e+08 / 68
p0 −0.6273 ± 1.588e−05
pull
Entries 69
Mean −678.9
Std Dev 719.7

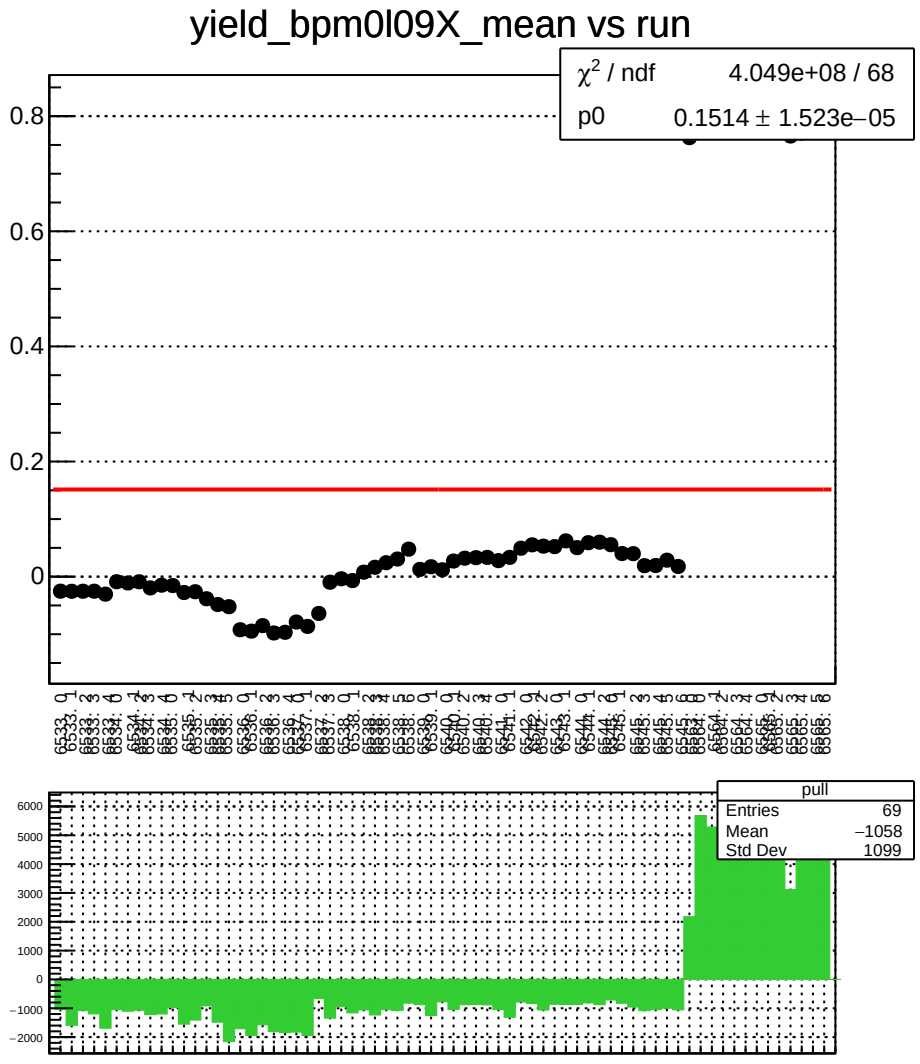

pull1D
Entries 69
Mean 0
Std Dev 0

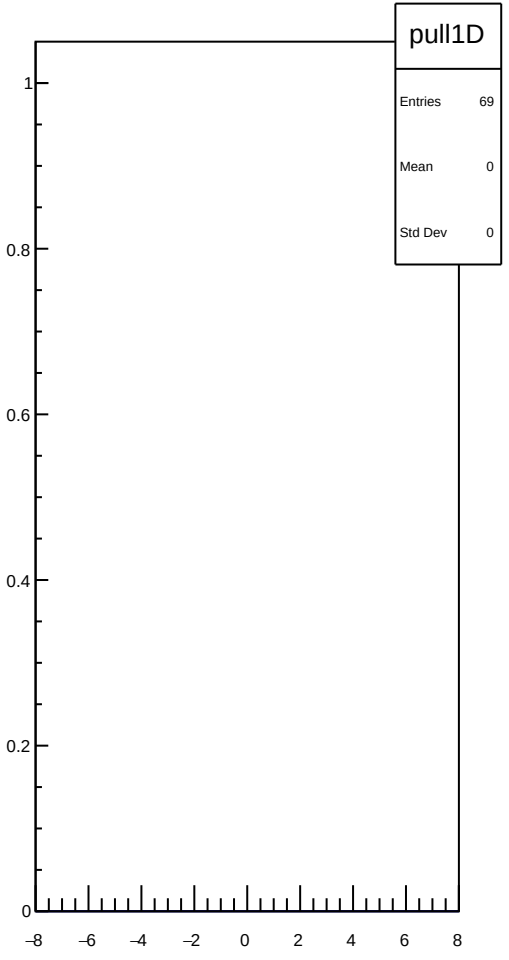

yield_bpm0l08X_rms vs run
χ² / ndf 5.059e+04 / 68
p0 0.01286 ± 1.123e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

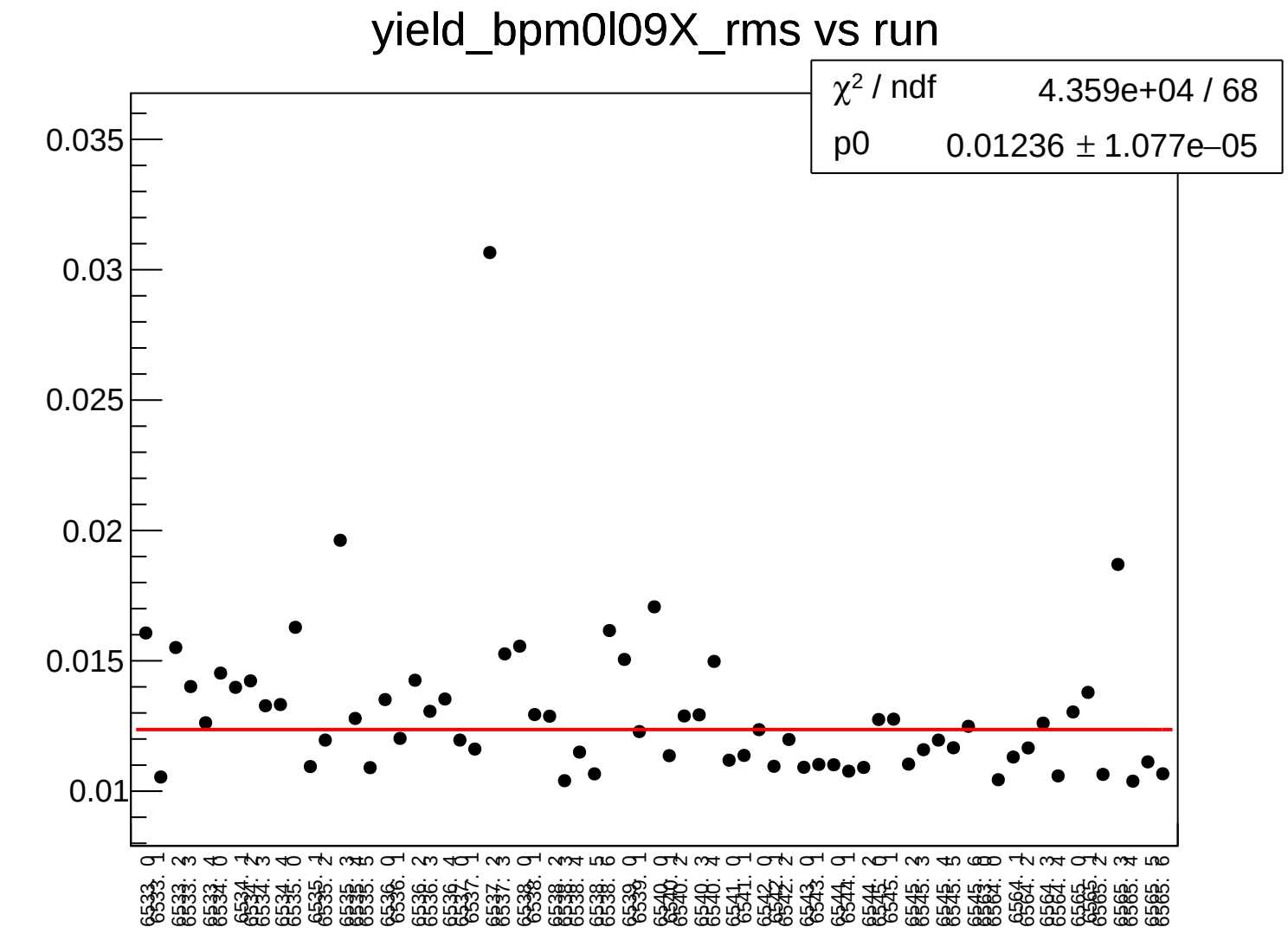

yield_bpm0l08Y_mean vs run
χ² / ndf 2.5e+08 / 68
p0 −0.1878 ± 3.316e−06
pull
Entries 69
Mean 207.1
Std Dev 162.2

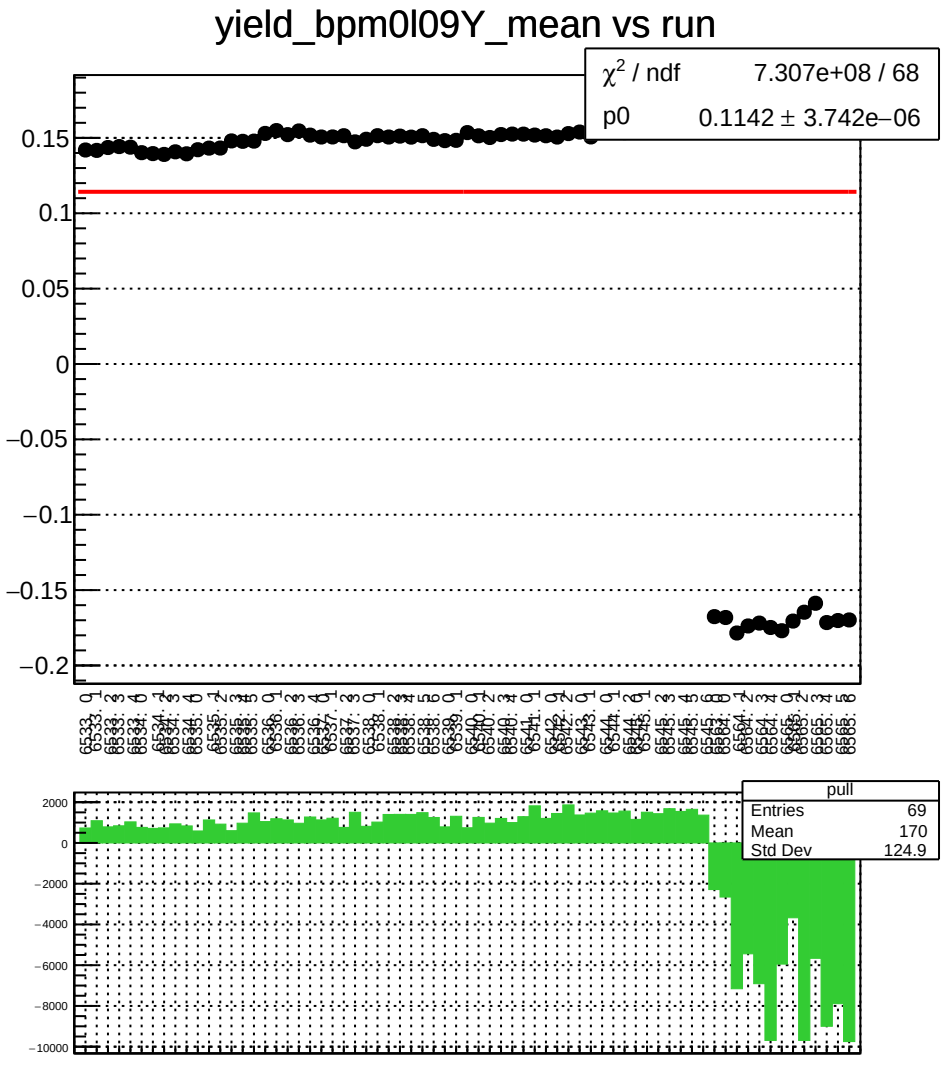

pull1D
Entries 69
Mean 0
Std Dev 0

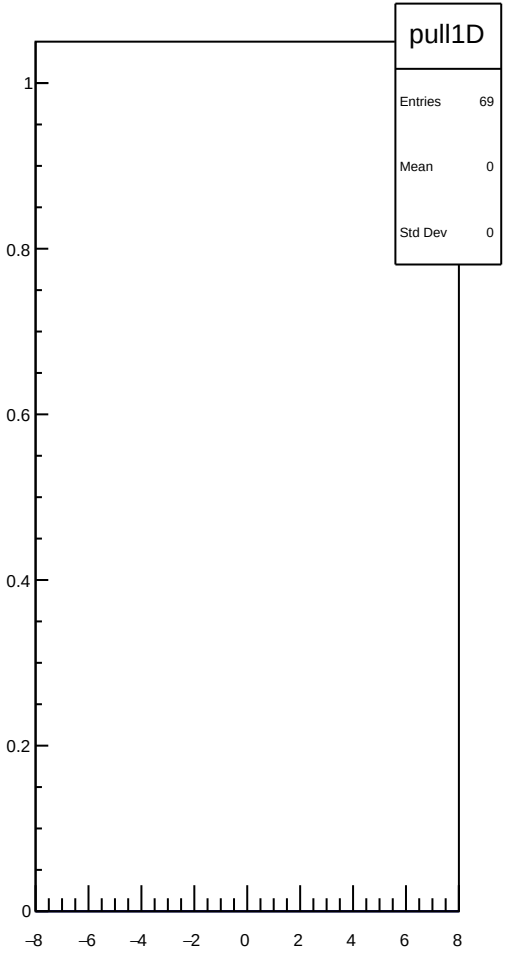

yield_bpm0l08Y_rms vs run
χ² / ndf 3.822e+04 / 68
p0 0.002698 ± 2.345e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

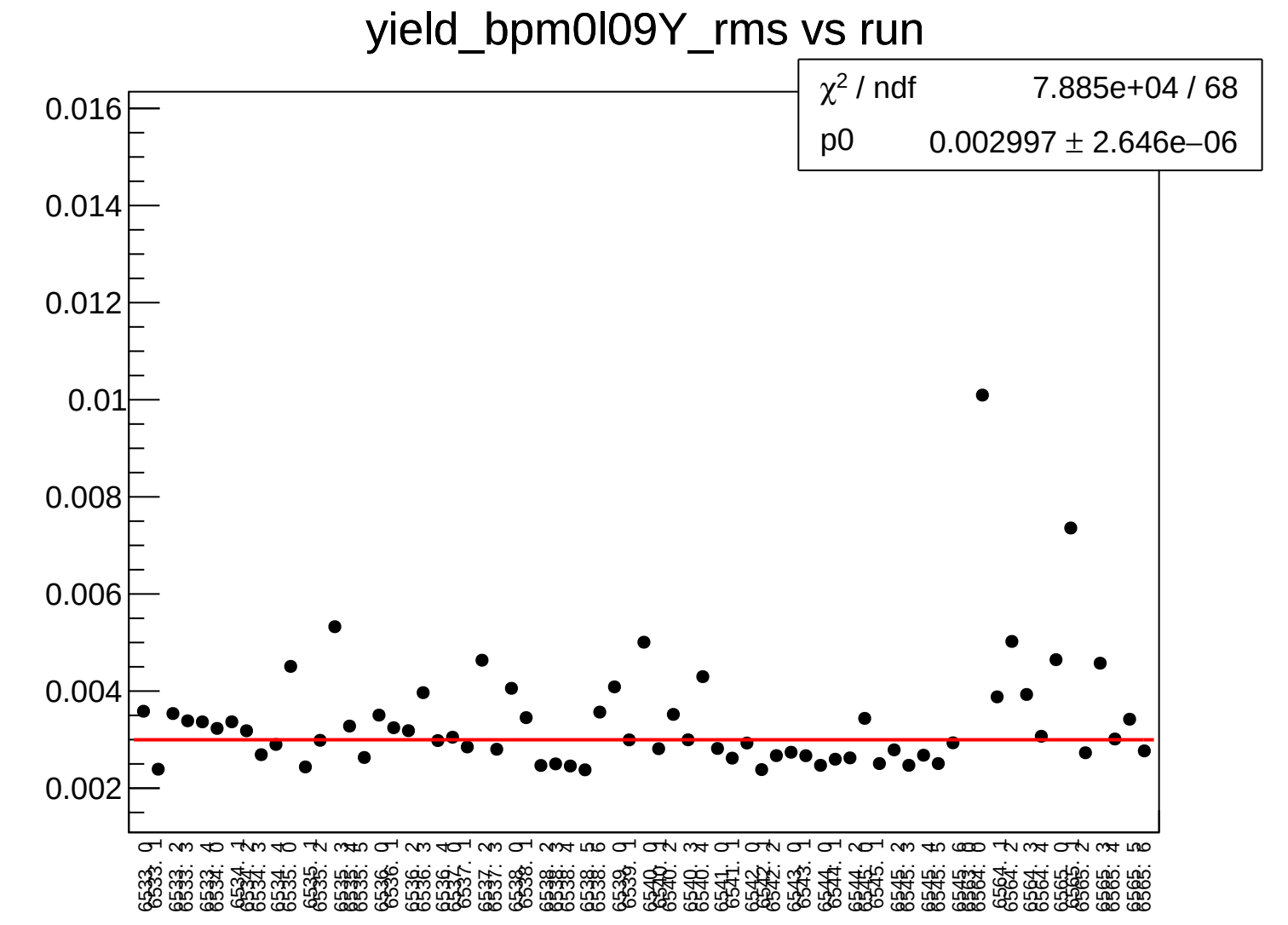

yield_bpm0l09X_mean vs run
χ² / ndf 4.049e+08 / 68
p0 0.1514 ± 1.523e−05
0.8
0.6
0.4
0.2
0
pull
Entries 69
Mean −1058
Std Dev 1099
6000
5000
4000
3000
2000
1000
0
−1000
−2000

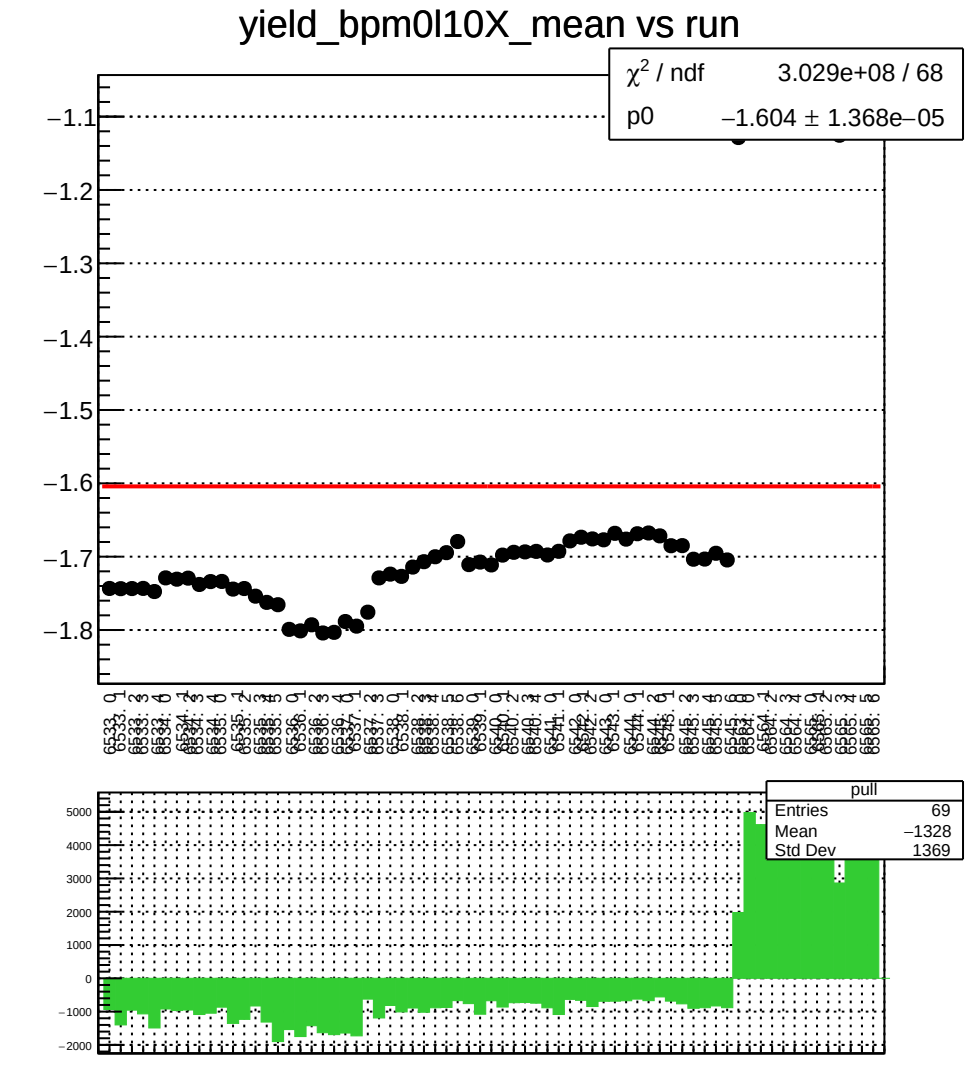

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

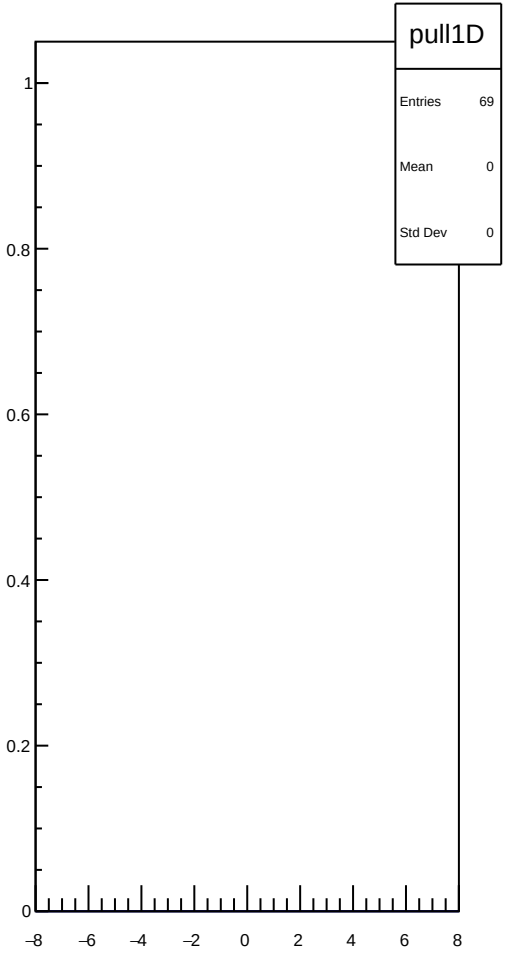

yield_bpm0l09X_rms vs run
χ² / ndf 4.359e+04 / 68
p0 0.01236 ± 1.077e–05
0.035
0.03
0.025
0.02
0.015
0.01

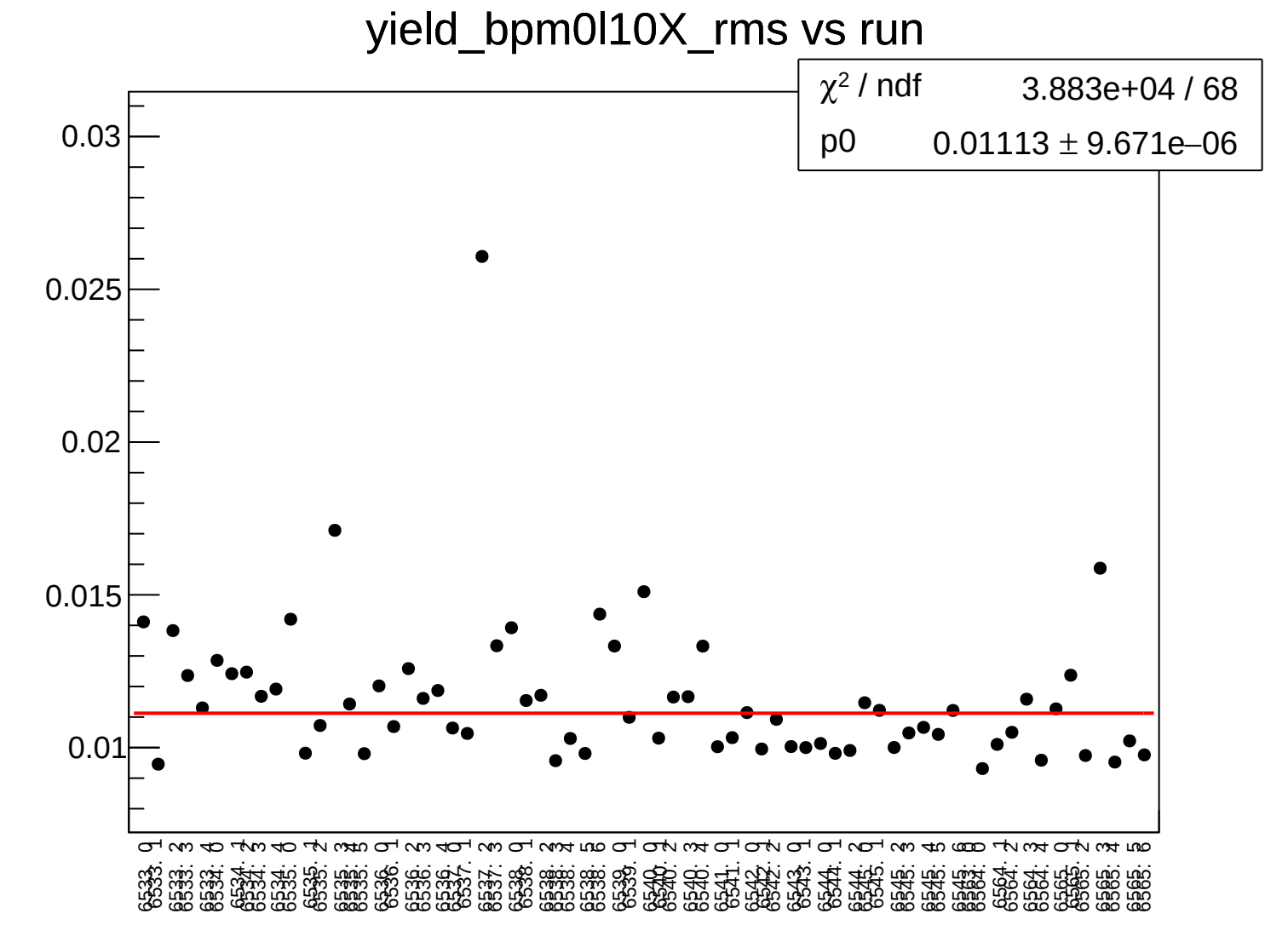

yield_bpm0l09Y_mean vs run
χ² / ndf 7.307e+08 / 68
p0 0.1142 ± 3.742e−06
pull
Entries 69
Mean 170
Std Dev 124.9

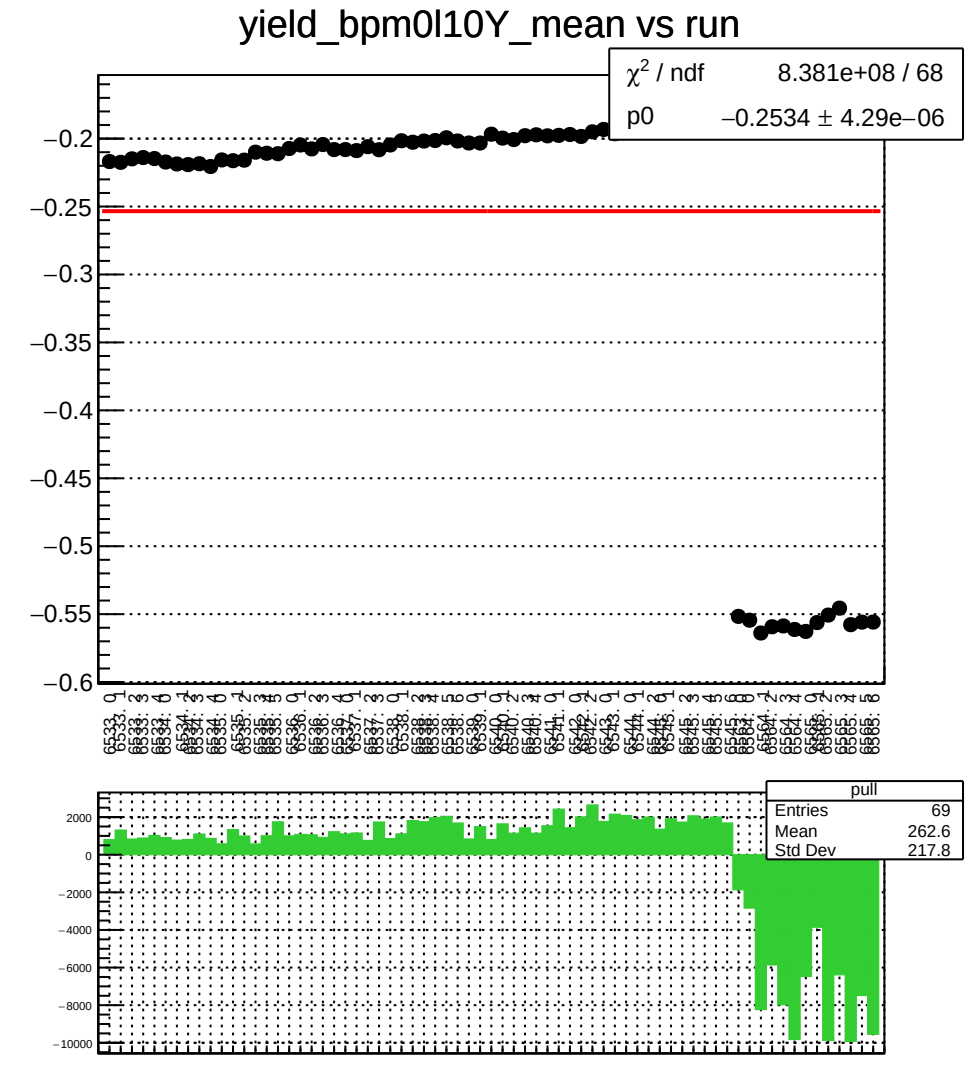

pull1D
Entries 69
Mean 0
Std Dev 0

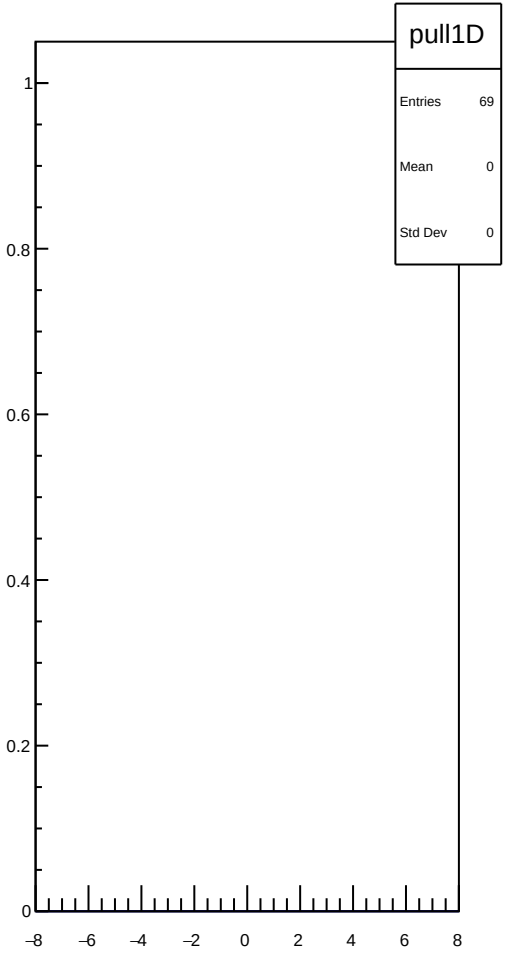

yield_bpm0l09Y_rms vs run
$\chi^2$ / ndf 7.885e+04 / 68
p0 0.002997 ± 2.646e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

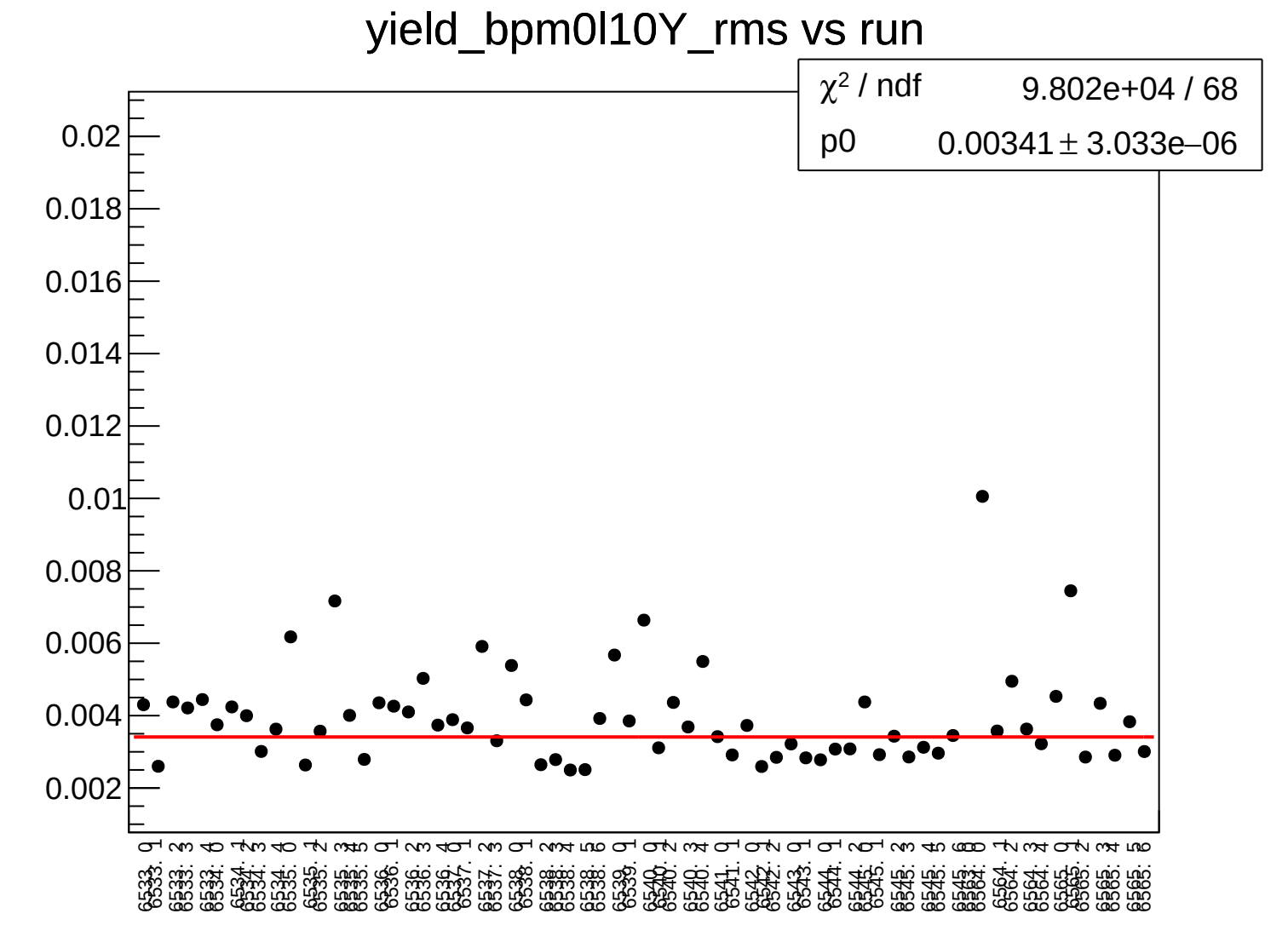

yield_bpm0l10X_mean vs run
χ² / ndf 3.029e+08 / 68
p0 −1.604 ± 1.368e−05
−1.1
−1.2
−1.3
−1.4
−1.5
−1.6
−1.7
−1.8
pull
Entries 69
Mean −1328
Std Dev 1369
5000
4000
3000
2000
1000
0
−1000
−2000

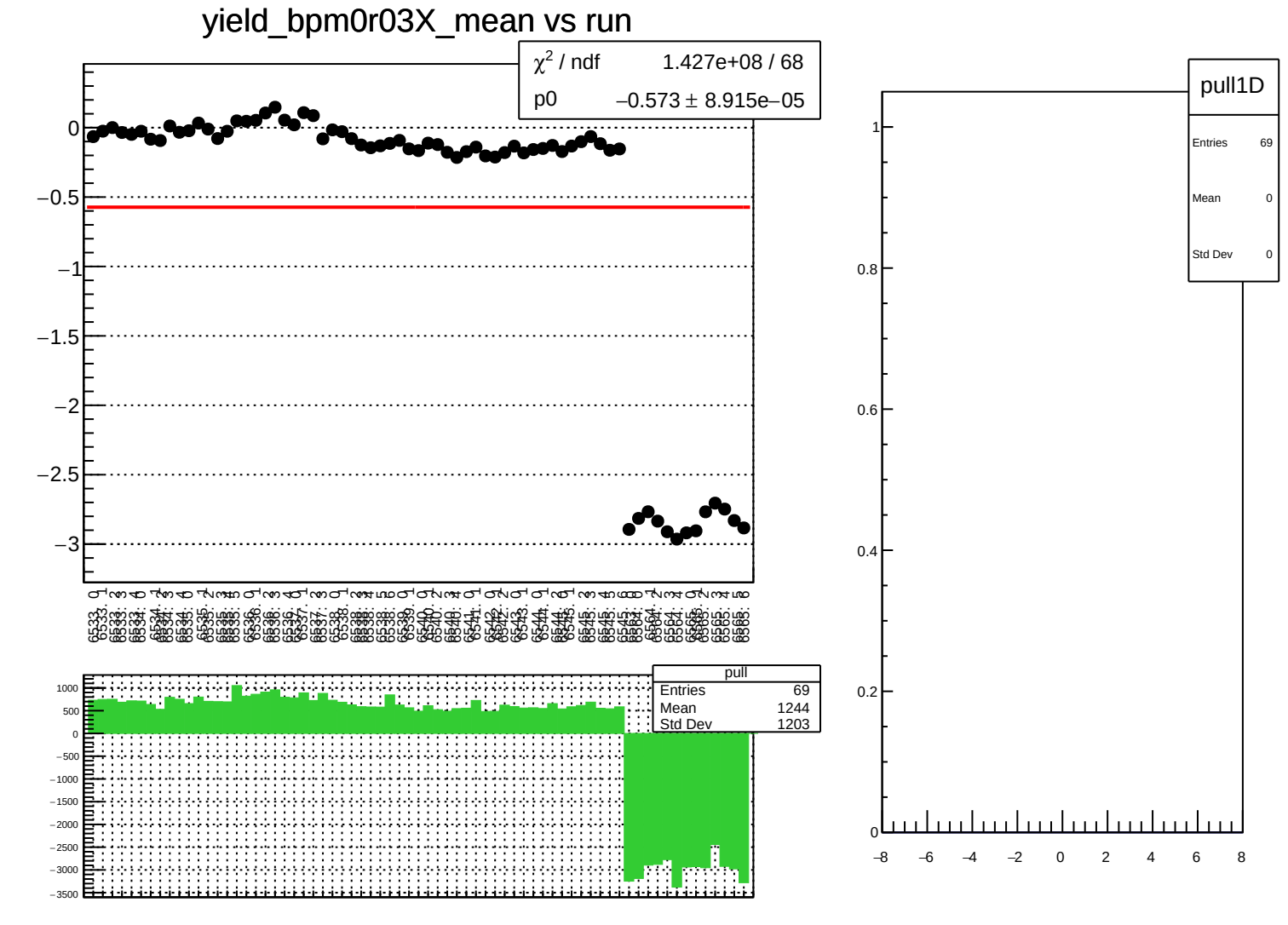

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

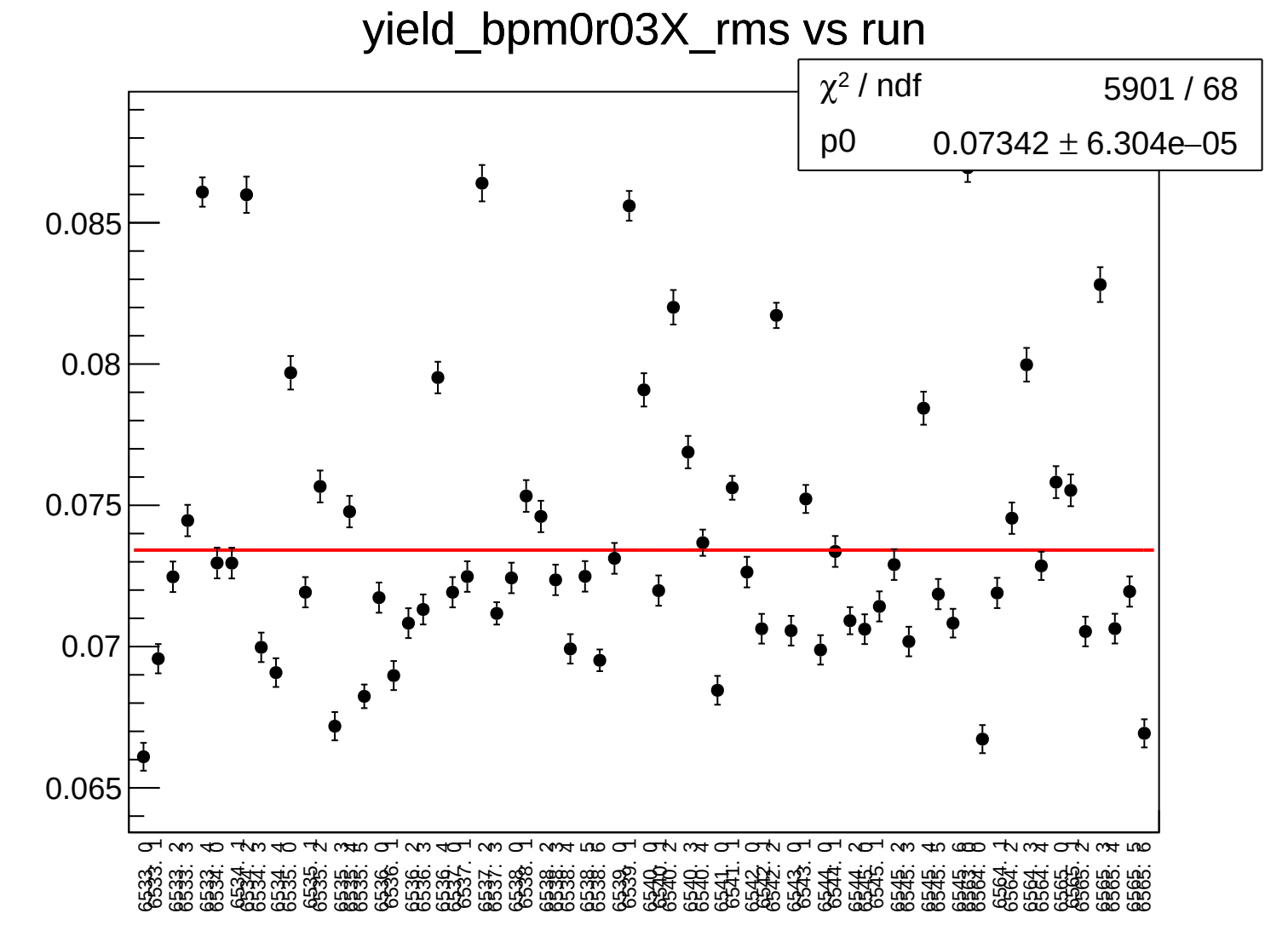

yield_bpm0l10X_rms vs run
χ² / ndf 3.883e+04 / 68
p0 0.01113 ± 9.671e–06
0.03
0.025
0.02
0.015
0.01

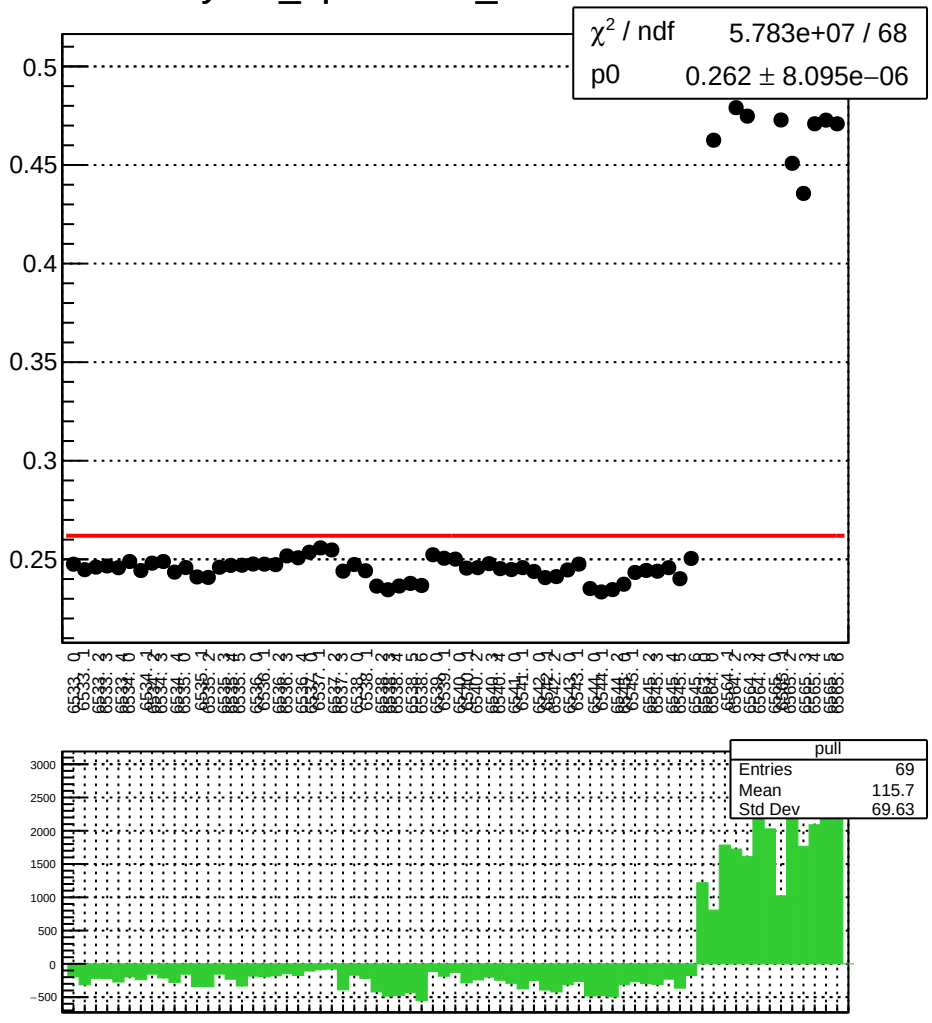

yield_bpm0l10Y_mean vs run
χ² / ndf 8.381e+08 / 68
p0 −0.2534 ± 4.29e−06
pull
Entries 69
Mean 262.6
Std Dev 217.8

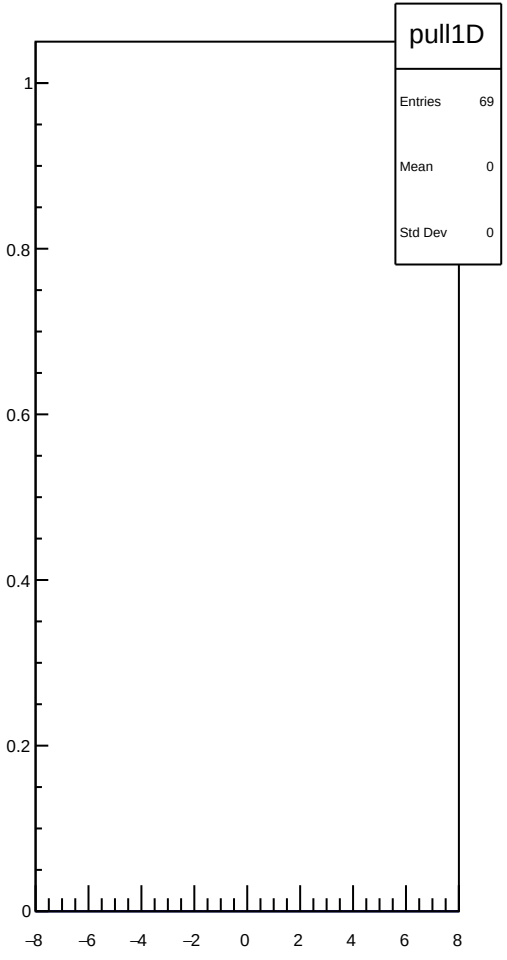

pull1D
Entries 69
Mean 0
Std Dev 0

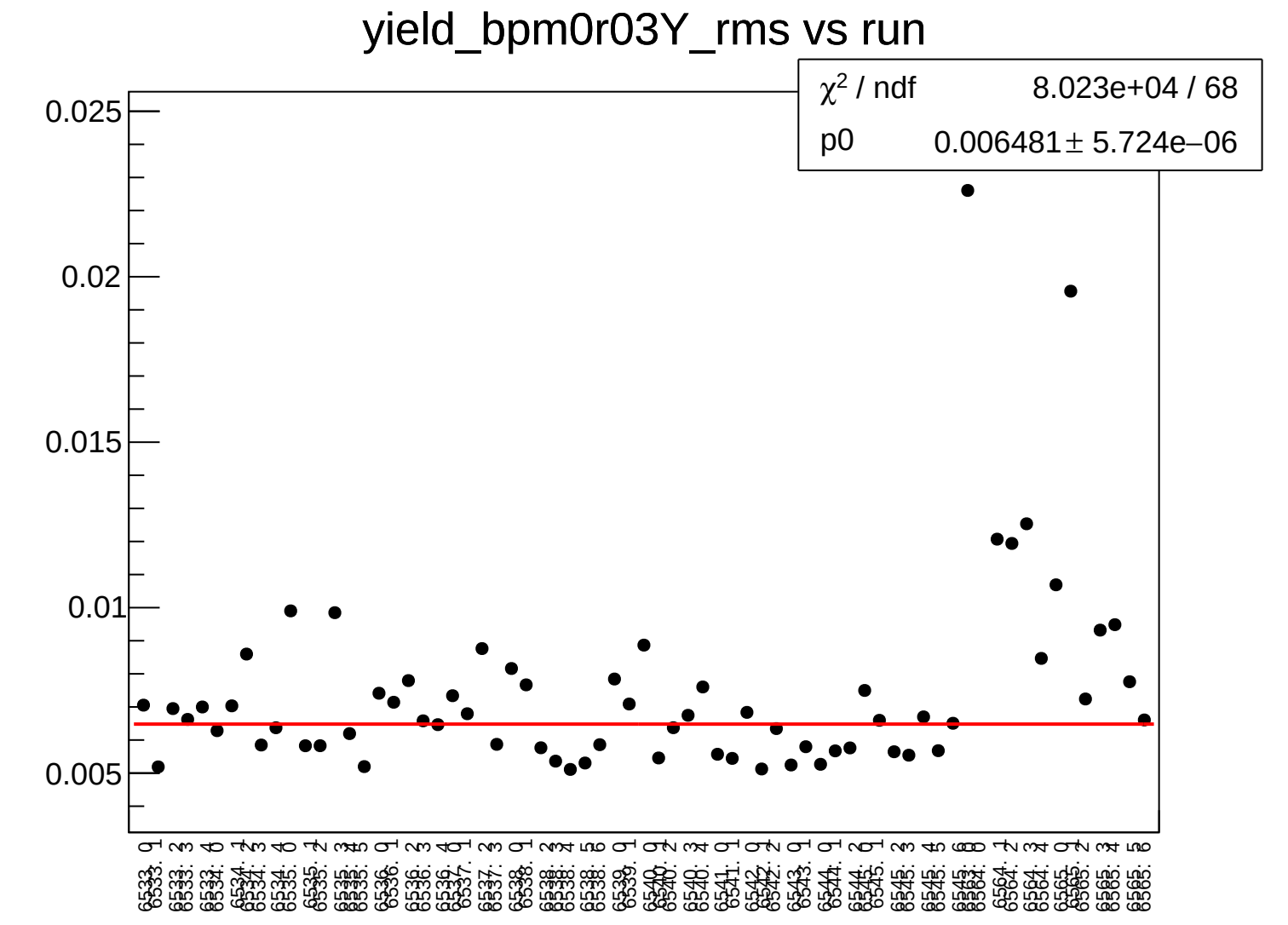

yield_bpm0l10Y_rms vs run
χ² / ndf 9.802e+04 / 68
p0 0.00341 ± 3.033e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

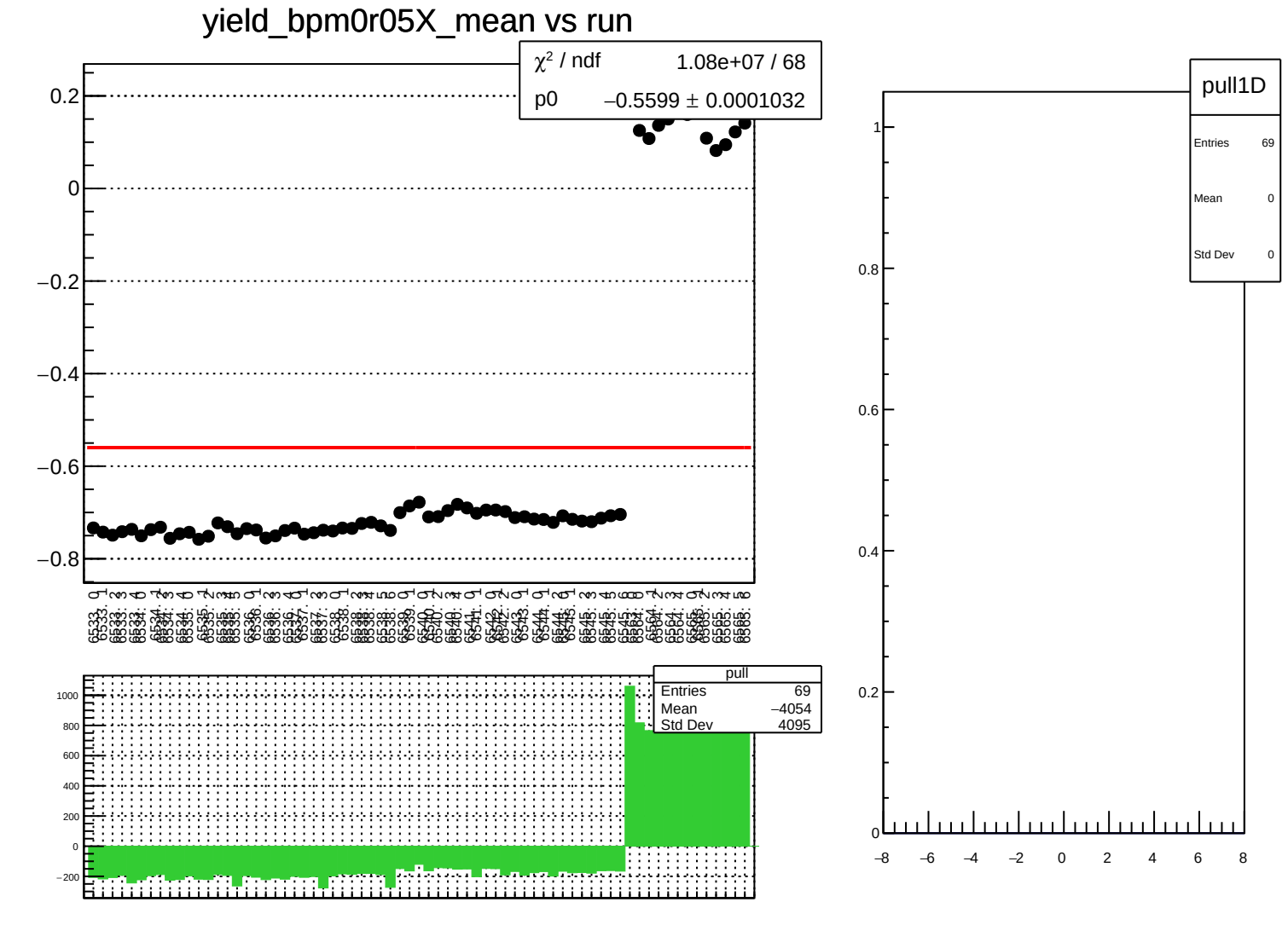

yield_bpm0r03X_mean vs run
χ² / ndf 1.427e+08 / 68
p0 −0.573 ± 8.915e−05
pull
Entries 69
Mean 1244
Std Dev 1203
pull1D
Entries 69
Mean 0
Std Dev 0

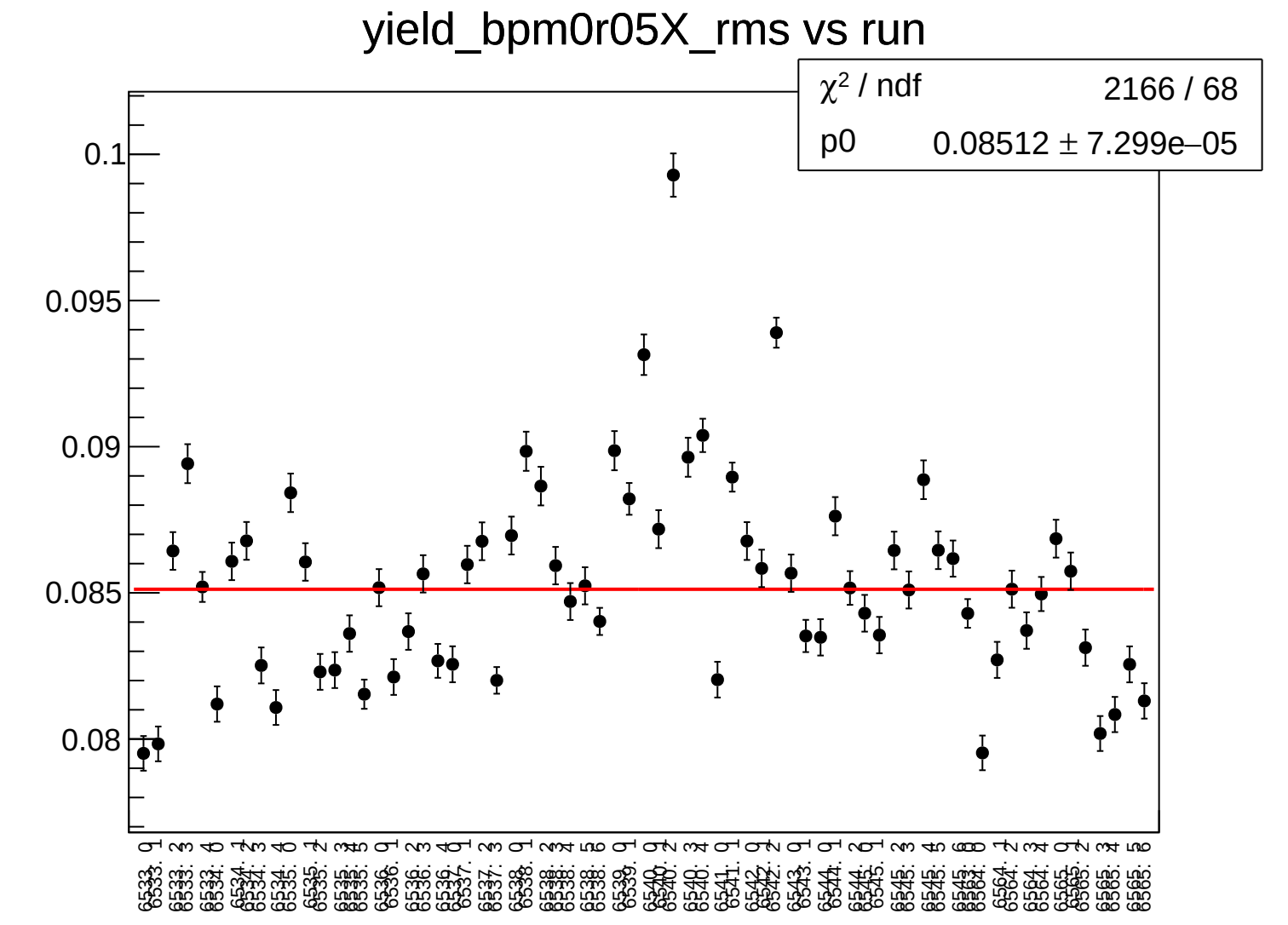

yield_bpm0r03X_rms vs run
χ² / ndf 5901 / 68
p0 0.07342 ± 6.304e–05
0.085
0.08
0.075
0.07
0.065

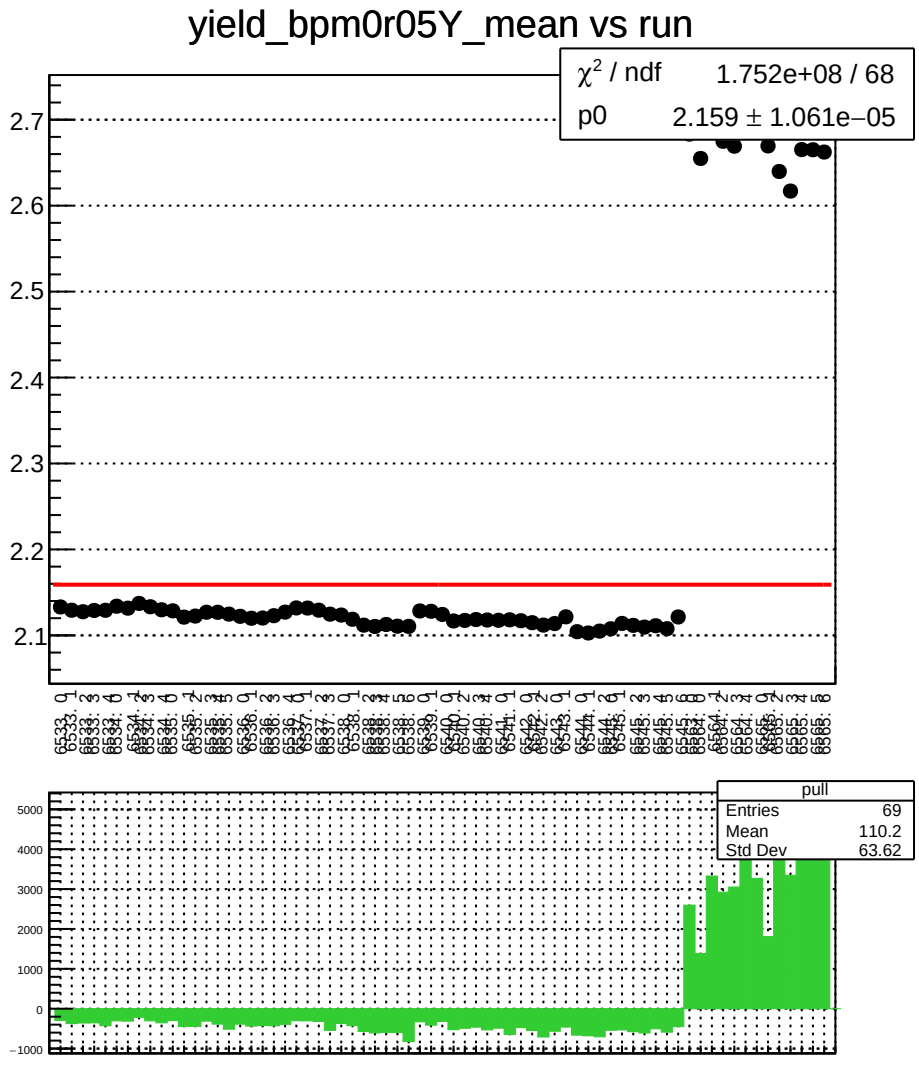

yield_bpm0r03Y_mean vs run
χ² / ndf 5.783e+07 / 68
p0 0.262 ± 8.095e−06
pull
Entries 69
Mean 115.7
Std Dev 69.63

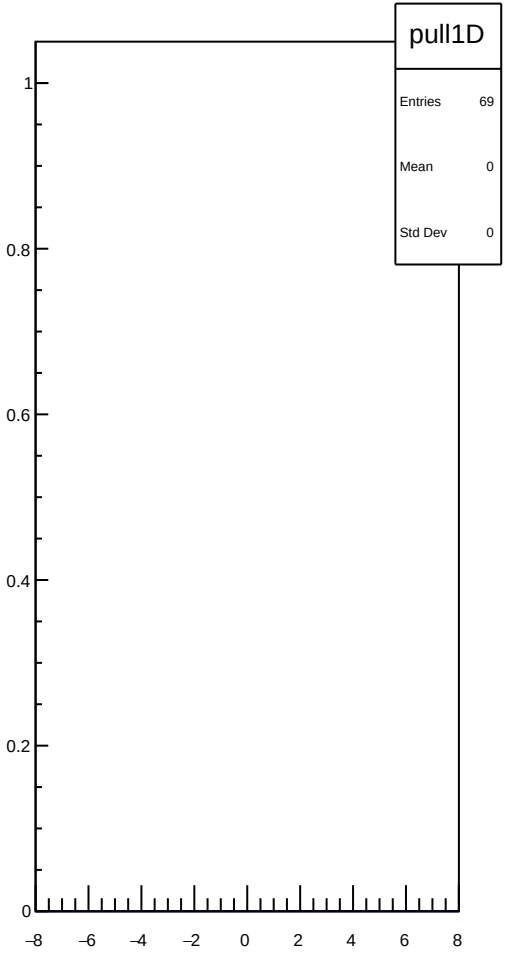

pull1D
Entries 69
Mean 0
Std Dev 0

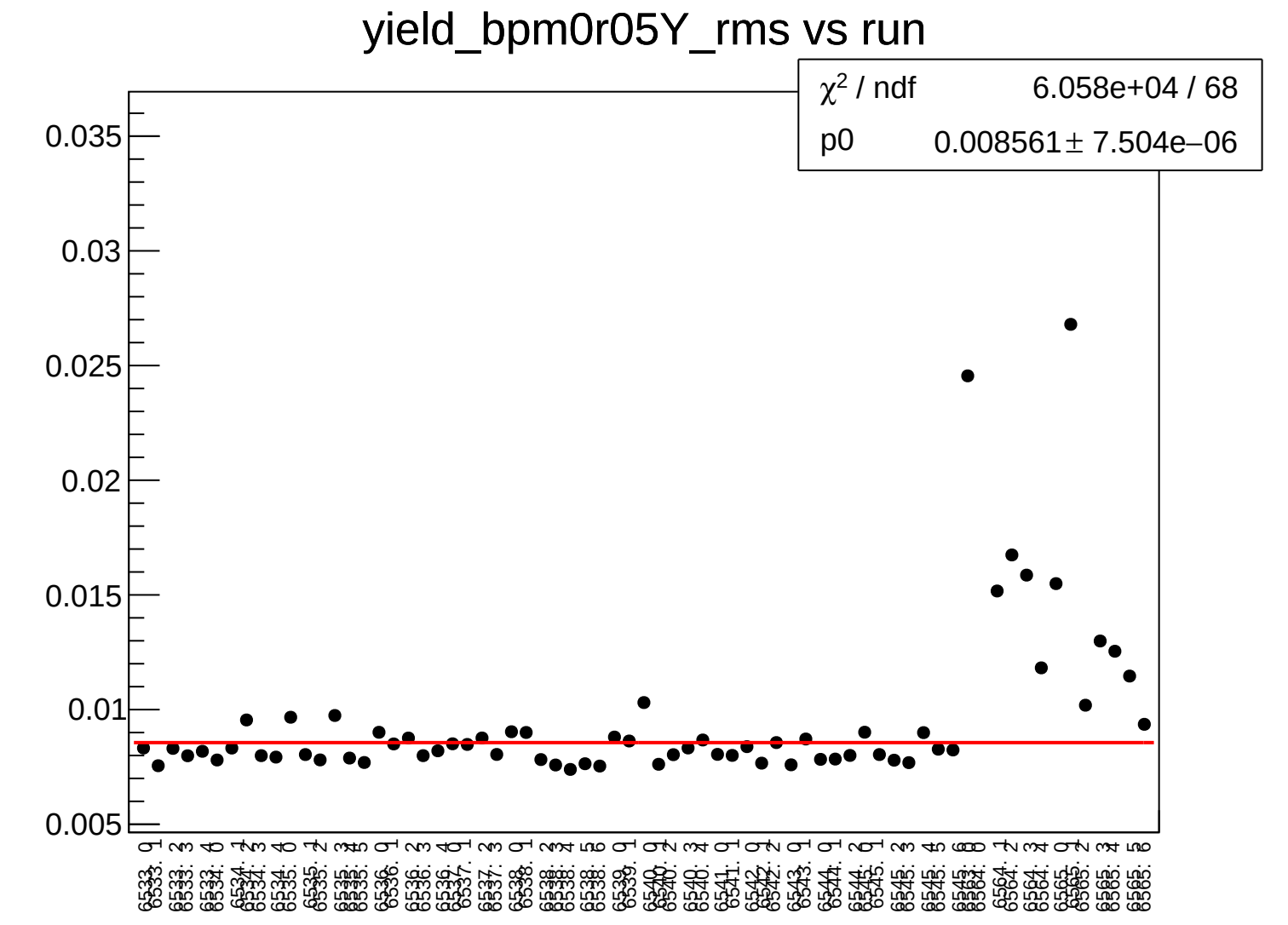

yield_bpm0r03Y_rms vs run
χ² / ndf 8.023e+04 / 68
p0 0.006481 ± 5.724e−06
0.025
0.02
0.015
0.01
0.005

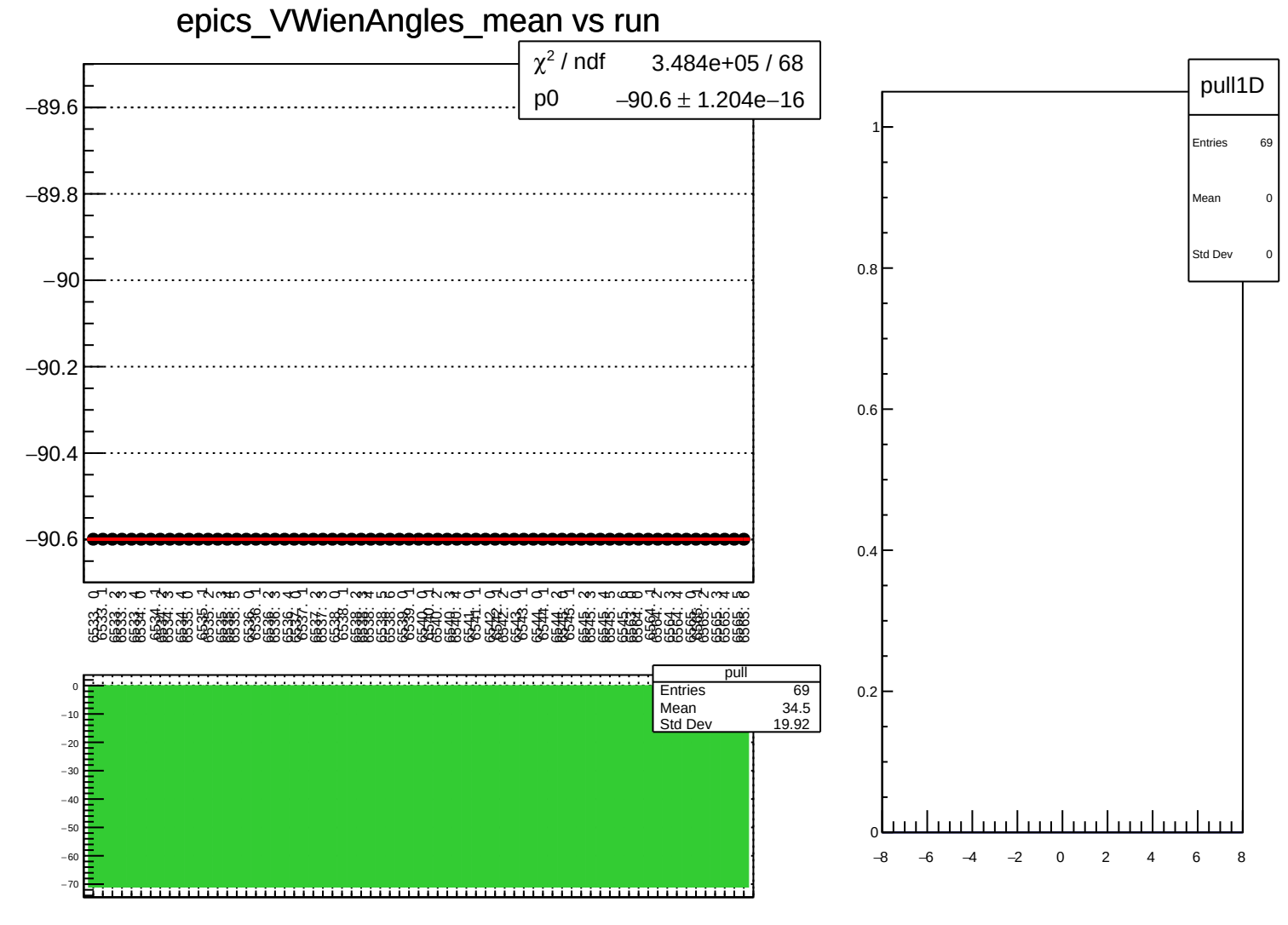

yield_bpm0r05X_mean vs run
χ² / ndf 1.08e+07 / 68
p0 −0.5599 ± 0.0001032
pull
Entries 69
Mean −4054
Std Dev 4095
pull1D
Entries 69
Mean 0
Std Dev 0

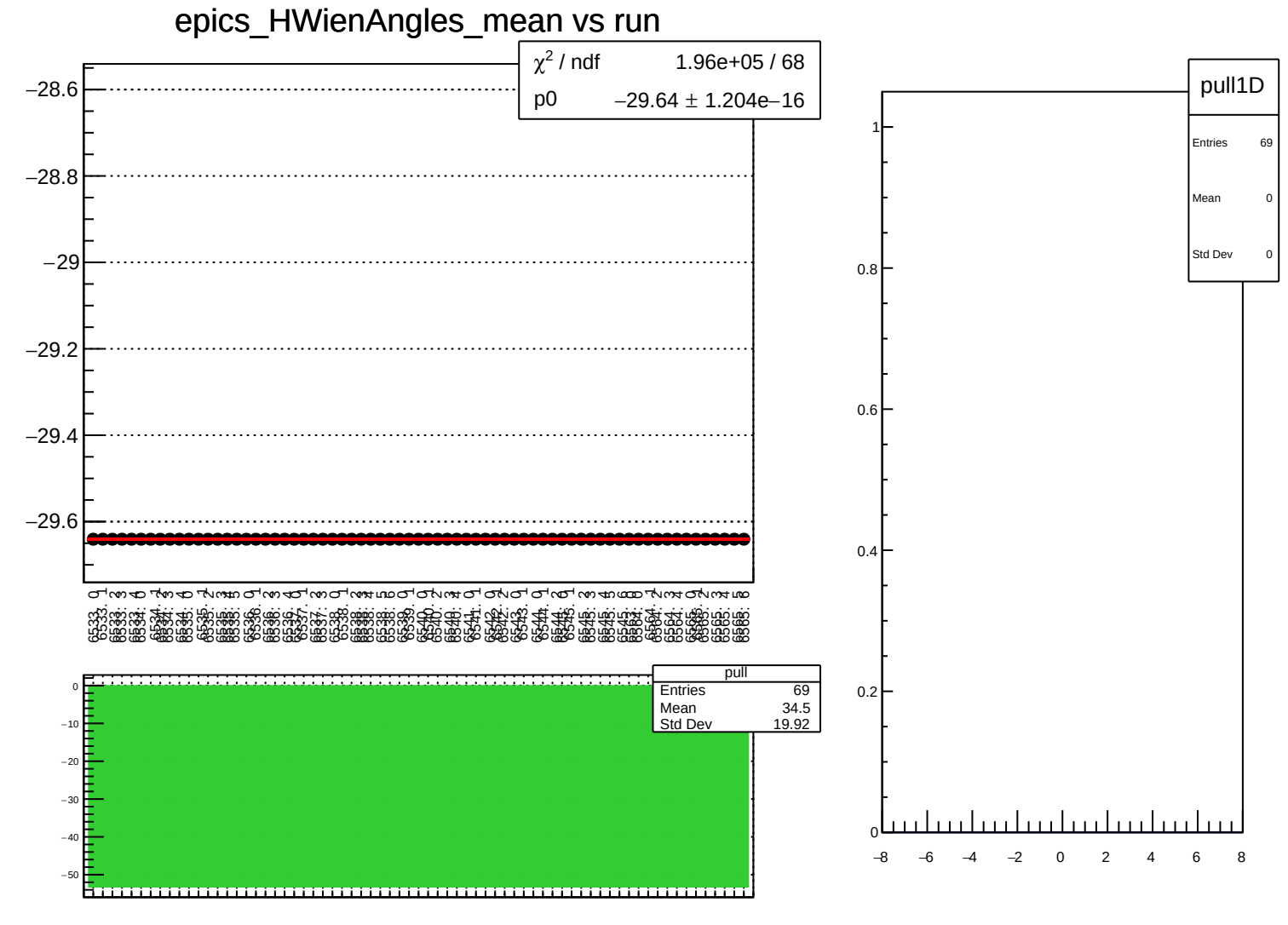

yield_bpm0r05X_rms vs run
χ² / ndf 2166 / 68
p0 0.08512 ± 7.299e–05
0.1
0.095
0.09
0.085
0.08

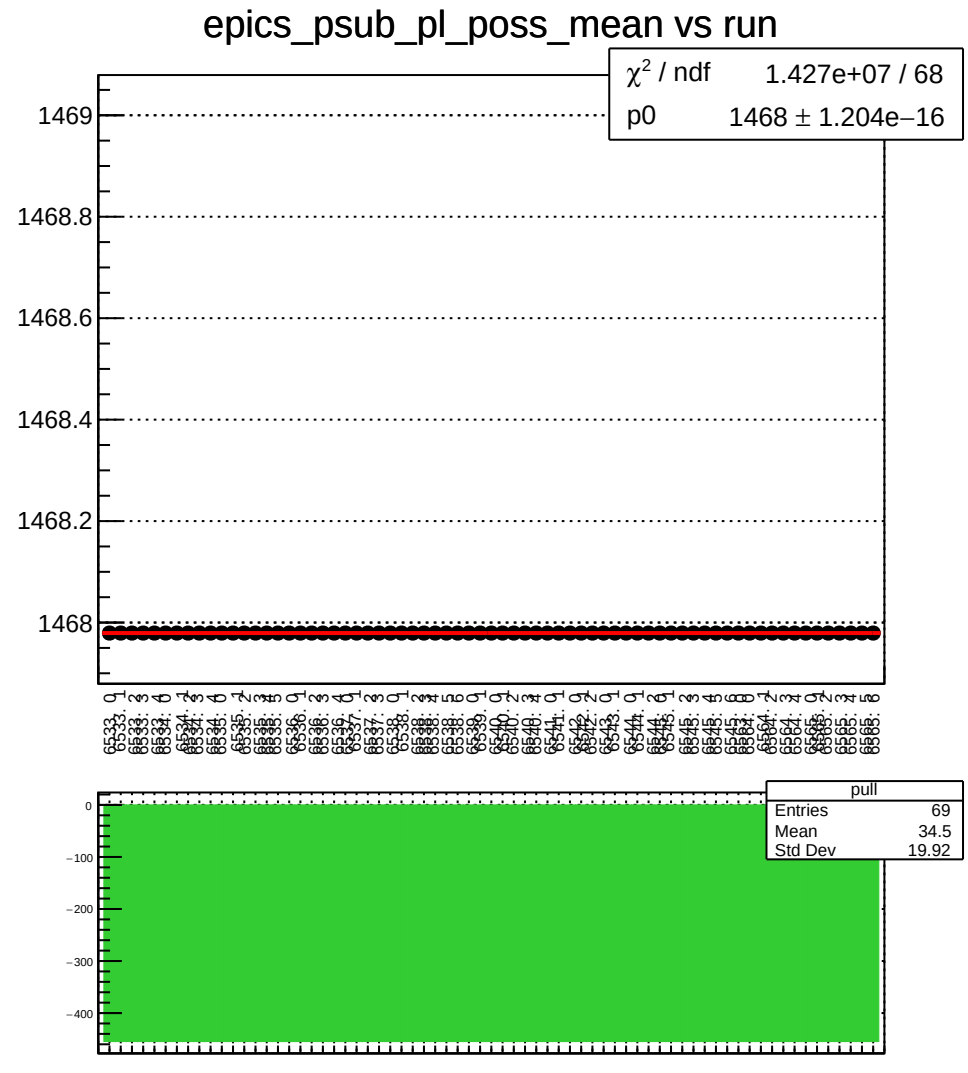

yield_bpm0r05Y_mean vs run
χ² / ndf 1.752e+08 / 68
p0 2.159 ± 1.061e−05
pull
Entries 69
Mean 110.2
Std Dev 63.62

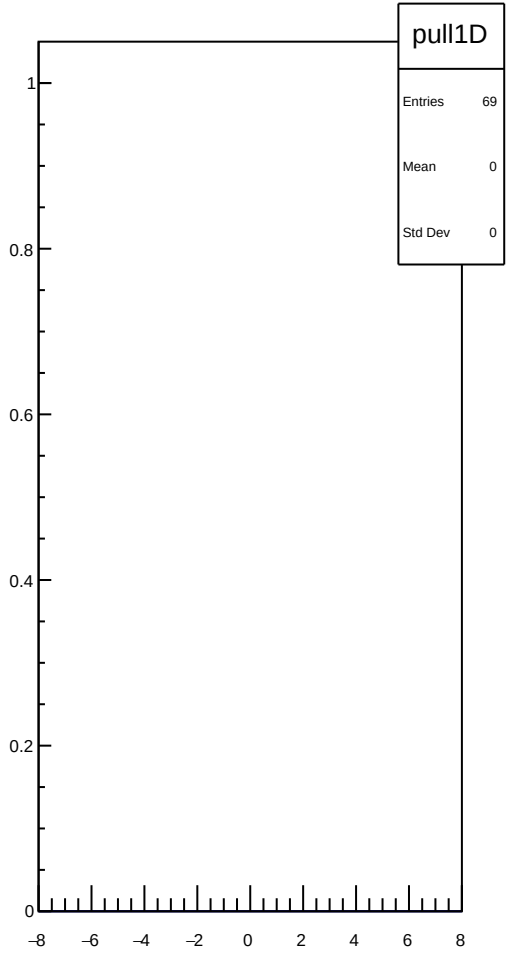

pull1D
Entries 69
Mean 0
Std Dev 0

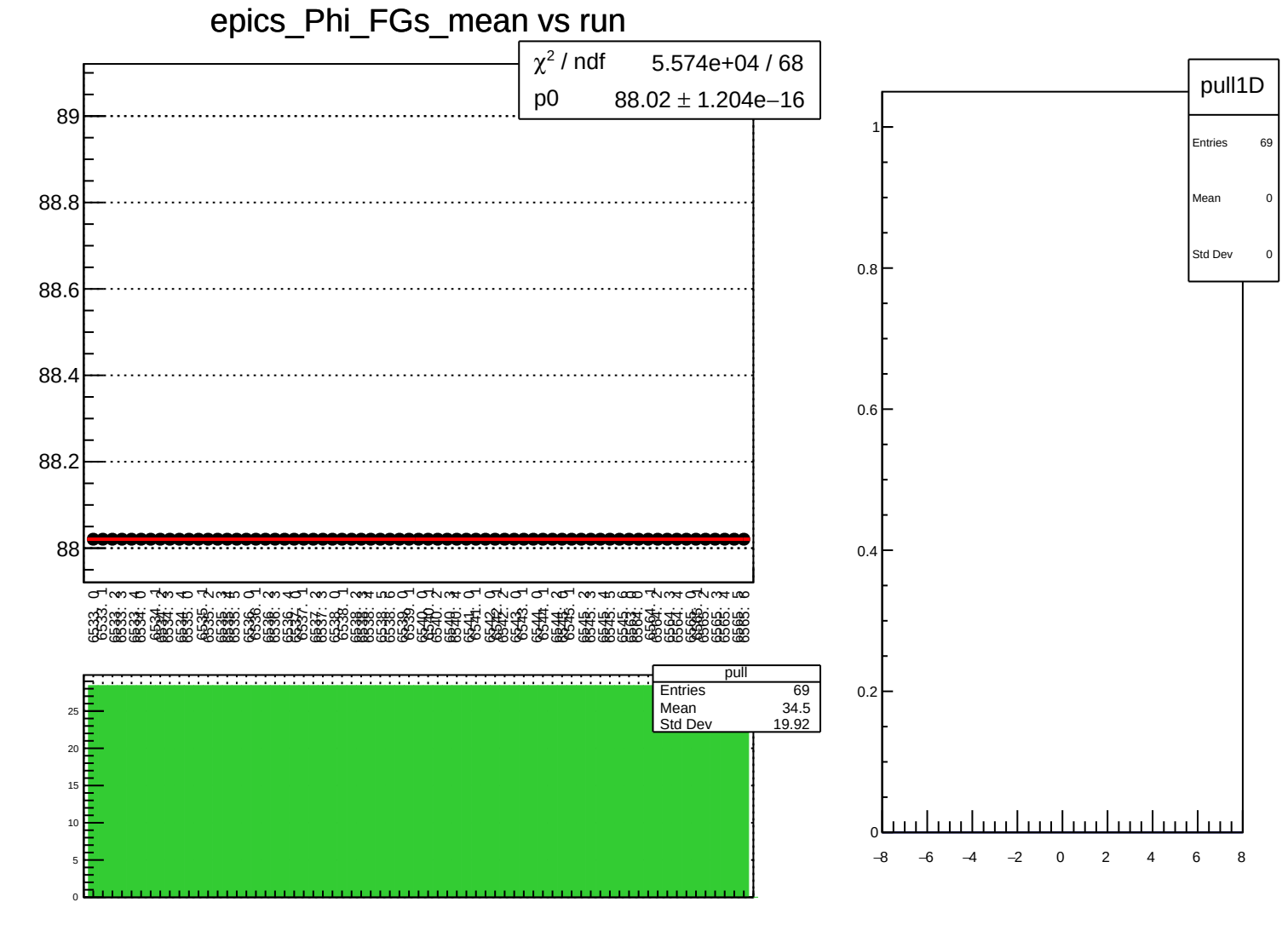

yield_bpm0r05Y_rms vs run
χ² / ndf 6.058e+04 / 68
p0 0.008561 ± 7.504e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

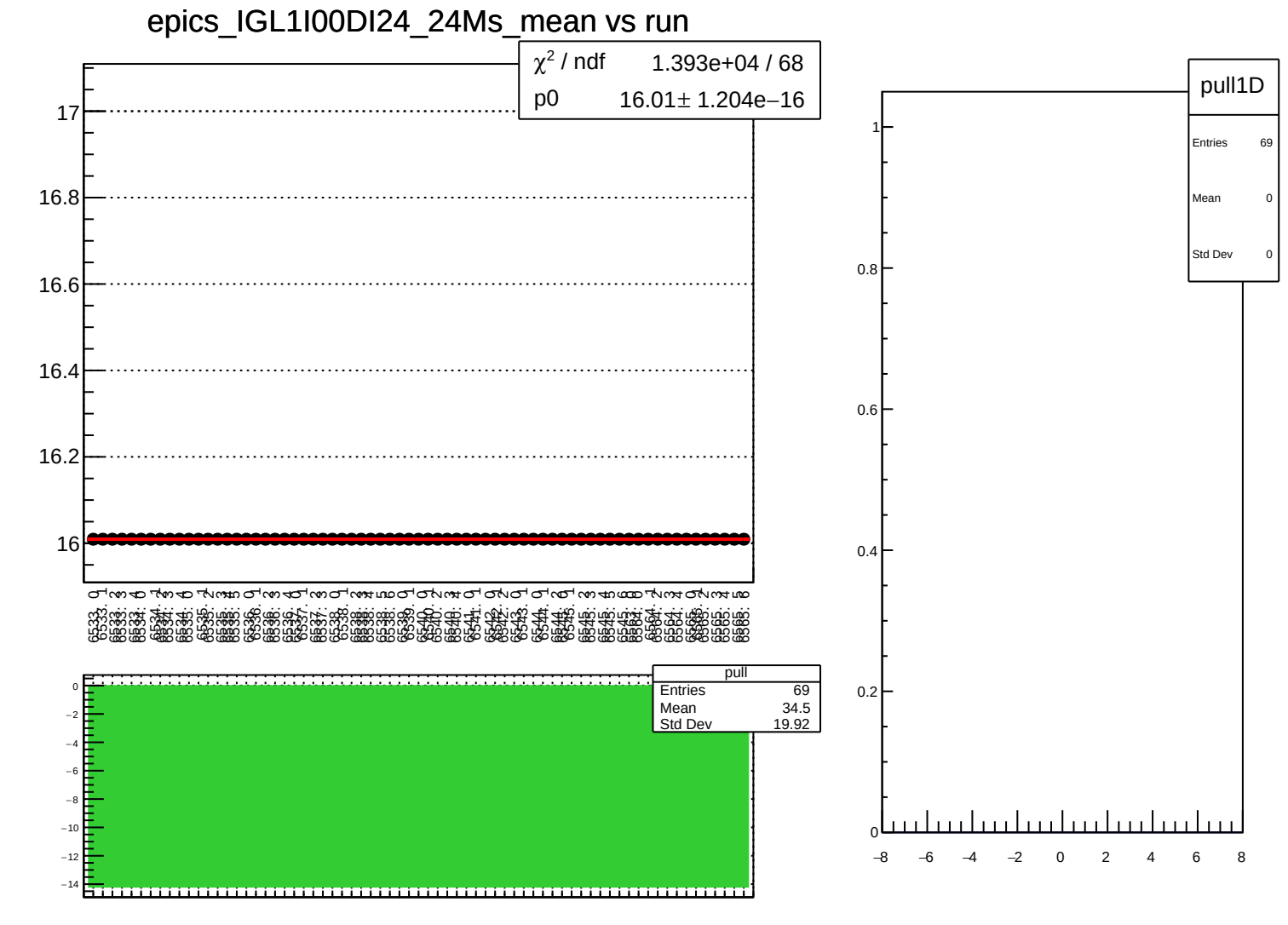

epics_VWienAngles_mean vs run
χ² / ndf 3.484e+05 / 68
p0 −90.6 ± 1.204e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

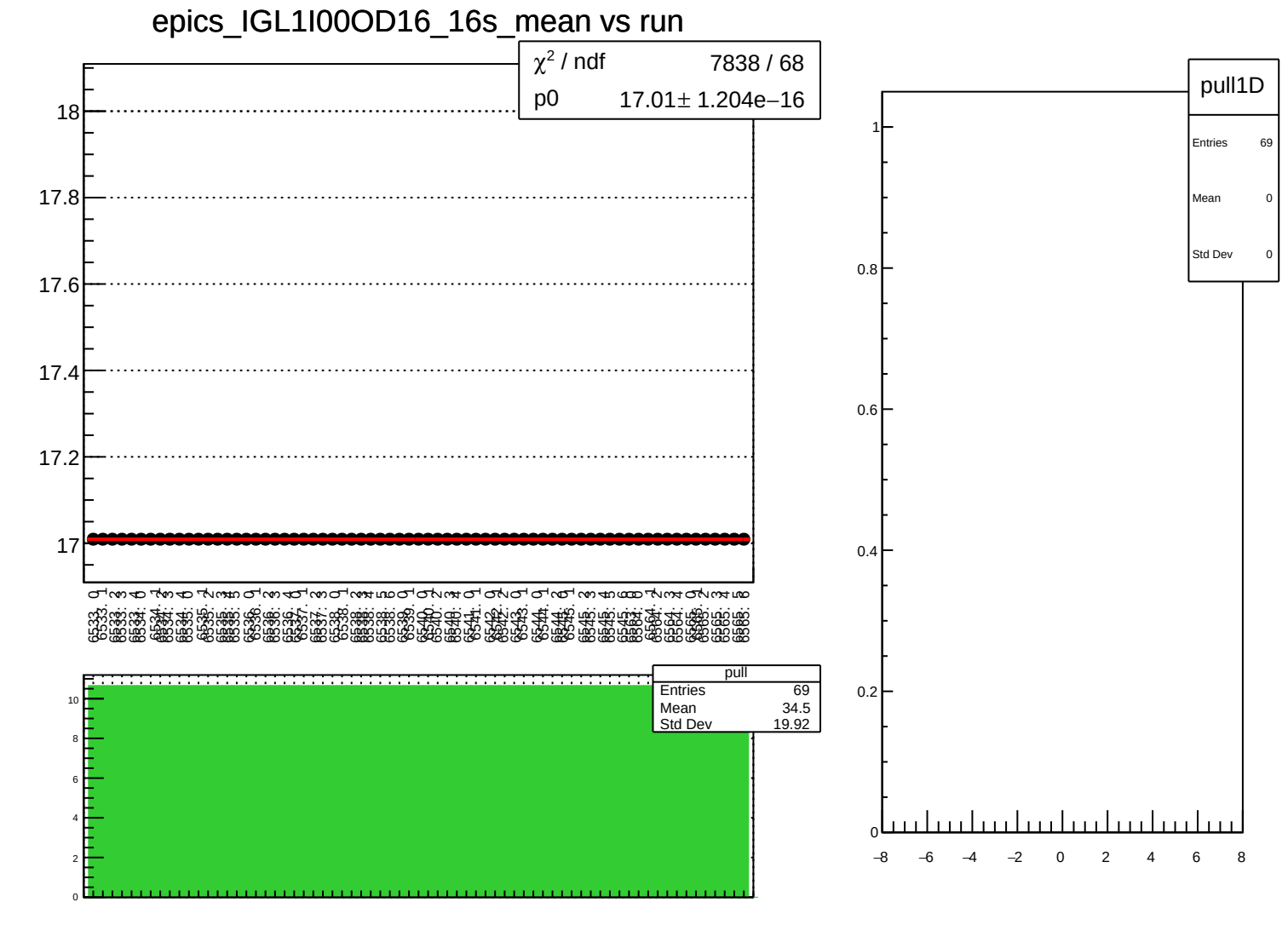

epics_HWienAngles_mean vs run
χ² / ndf 1.96e+05 / 68
p0 −29.64 ± 1.204e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−10
−20
−30
−40
−50
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

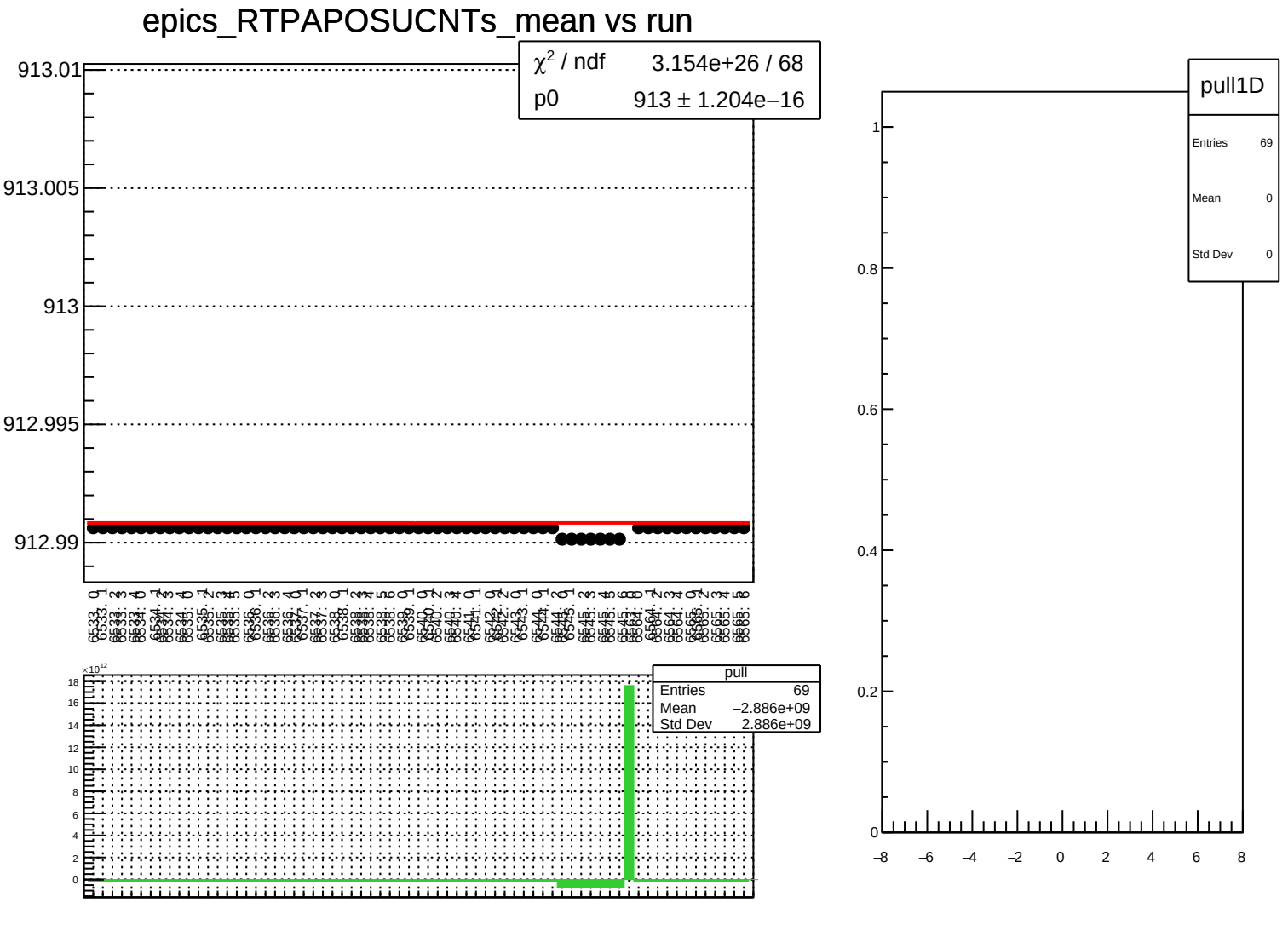

epics_psub_pl_poss_mean vs run
χ² / ndf 1.427e+07 / 68
p0 1468 ± 1.204e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−100
−200
−300
−400

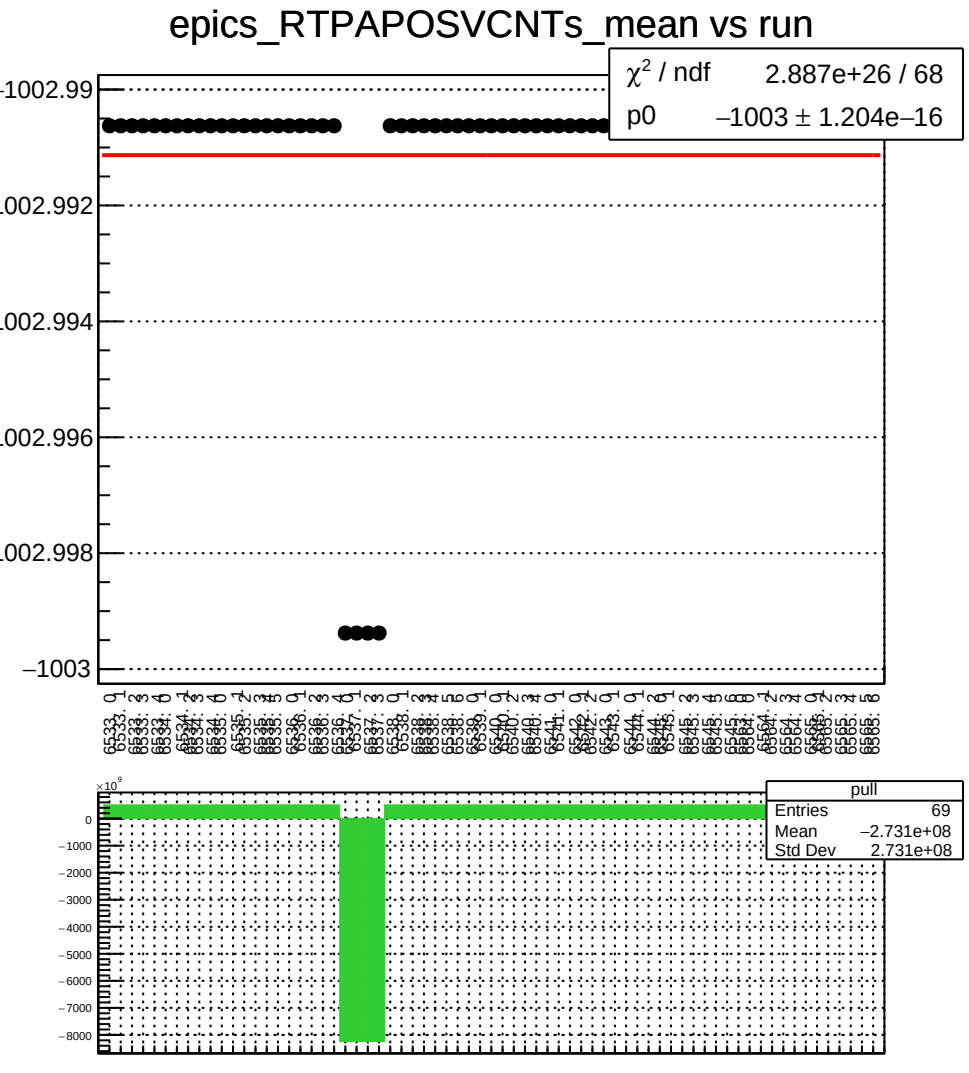

pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

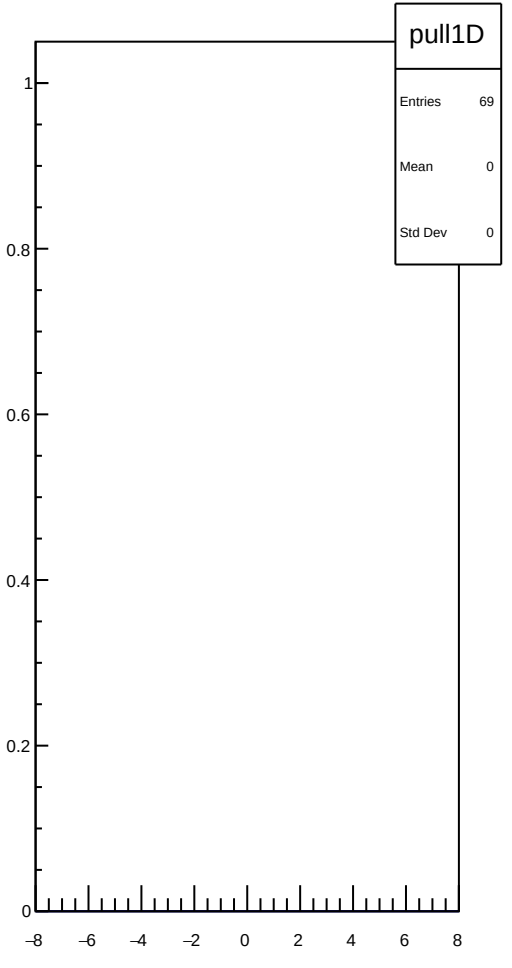

epics_Phi_FGs_mean vs run
χ² / ndf 5.574e+04 / 68
p0 88.02 ± 1.204e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 69
Mean 34.5
Std Dev 19.92
pull1D
Entries 69
Mean 0
Std Dev 0


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.393e+04 / 68
p0 16.01± 1.204e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 69
Mean 34.5
Std Dev 19.92
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 69
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 7838 / 68
p0 17.01± 1.204e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 69
Mean 34.5
Std Dev 19.92
10
8
6
4
2
0
pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 3.154e+26 / 68
p0 913 ± 1.204e−16
913.01
913.005
913
912.995
912.99
pull
Entries 69
Mean −2.886e+09
Std Dev 2.886e+09
pull1D
Entries 69
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 2.887e+26 / 68
p0 −1003 ± 1.204e−16
−1002.99
−1002.992
−1002.994
−1002.996
−1002.998
−1003
pull
Entries 69
Mean −2.731e+08
Std Dev 2.731e+08
×10⁹
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
−8000


pull1D
Entries 69
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8