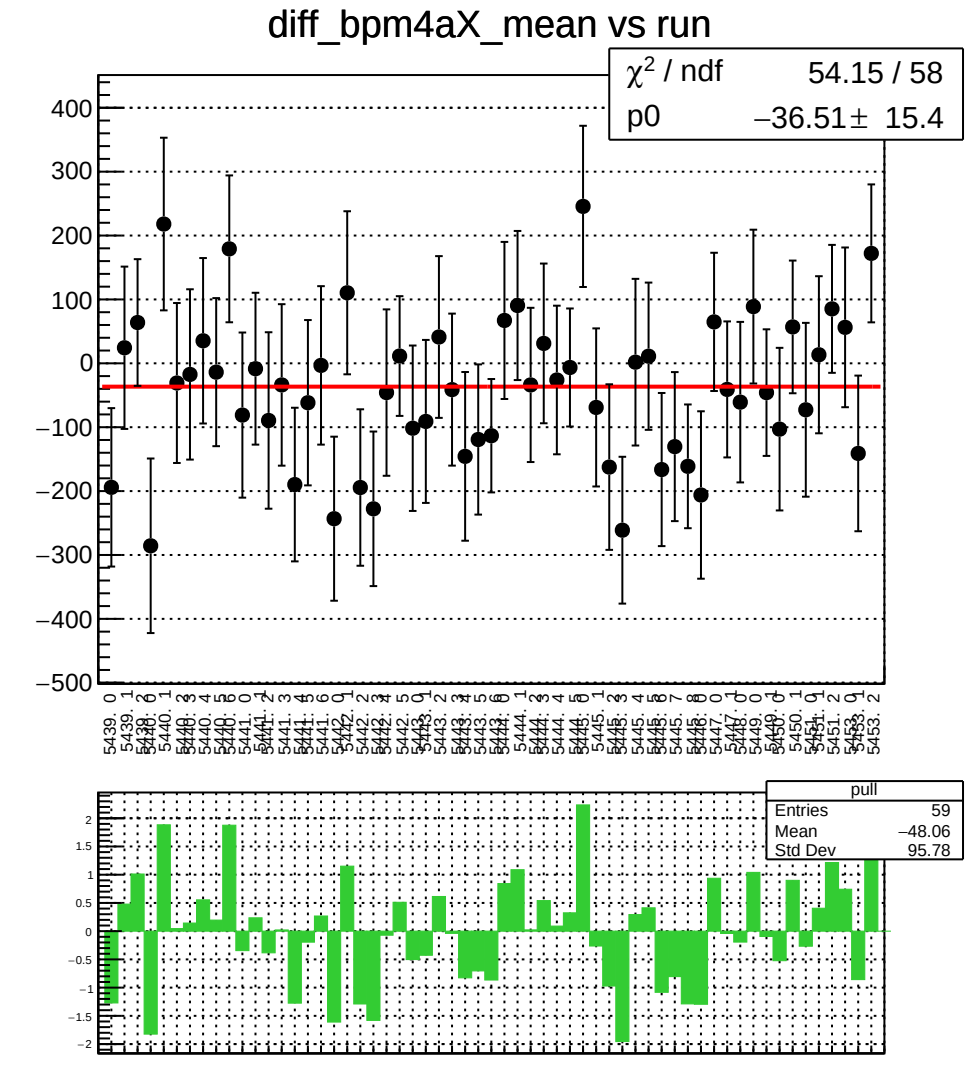
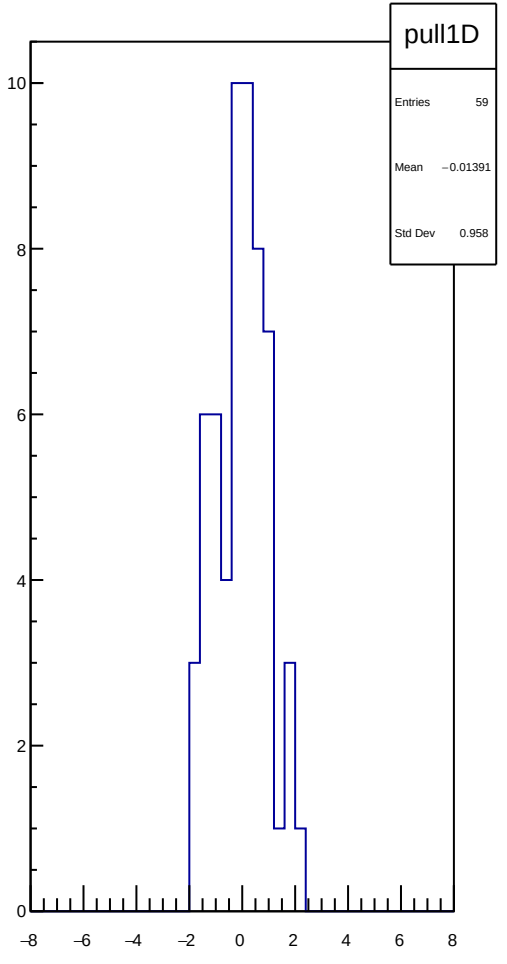
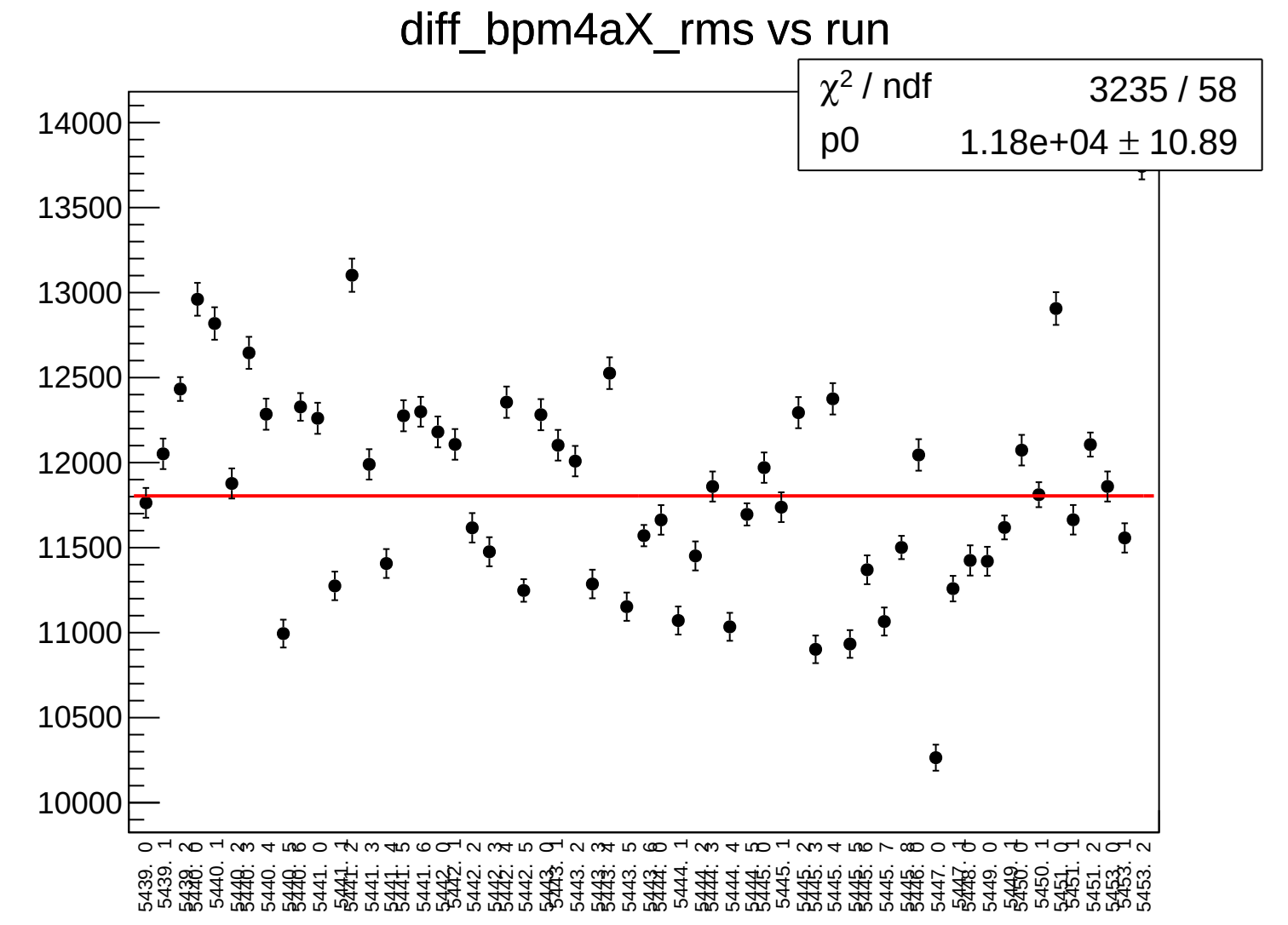
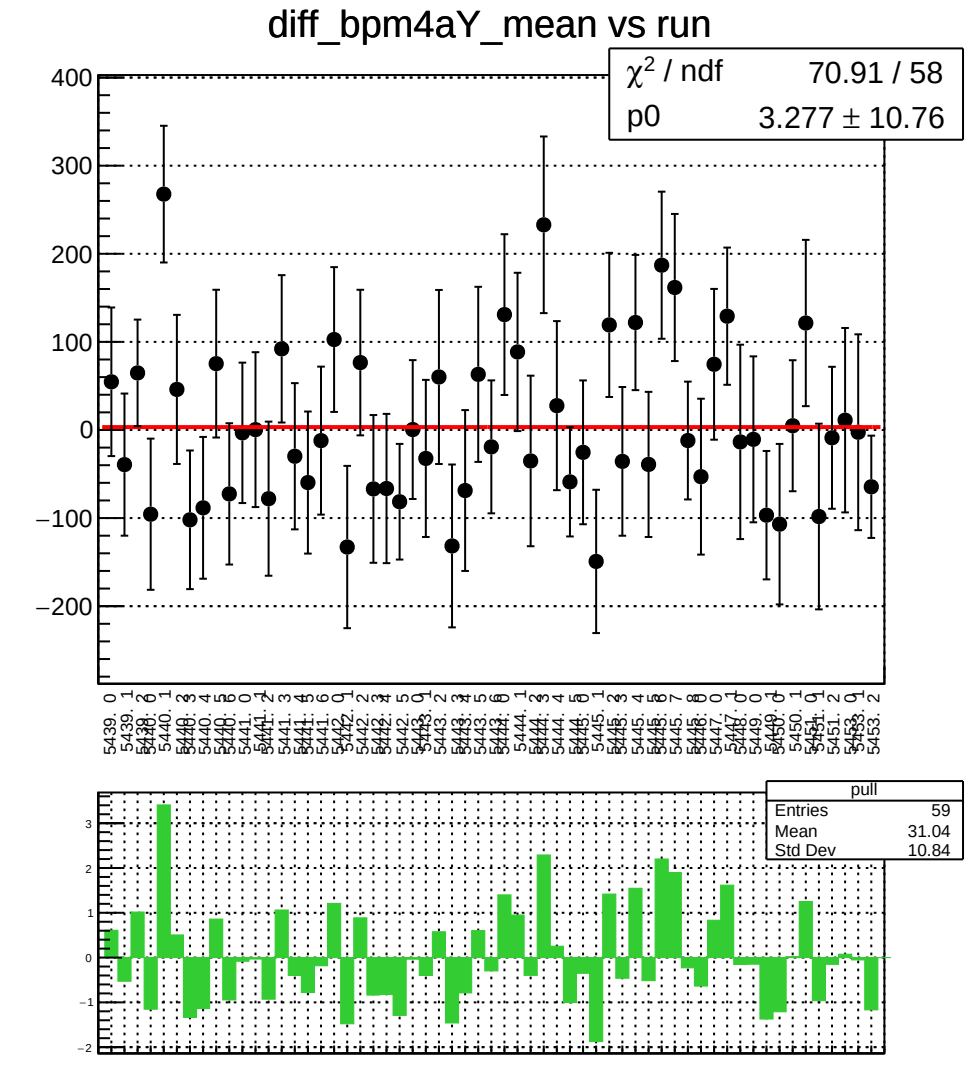
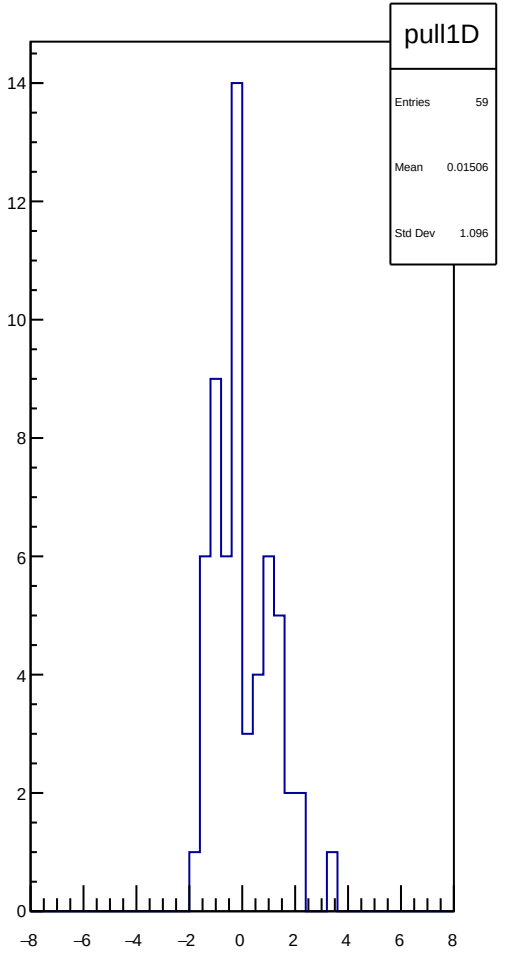
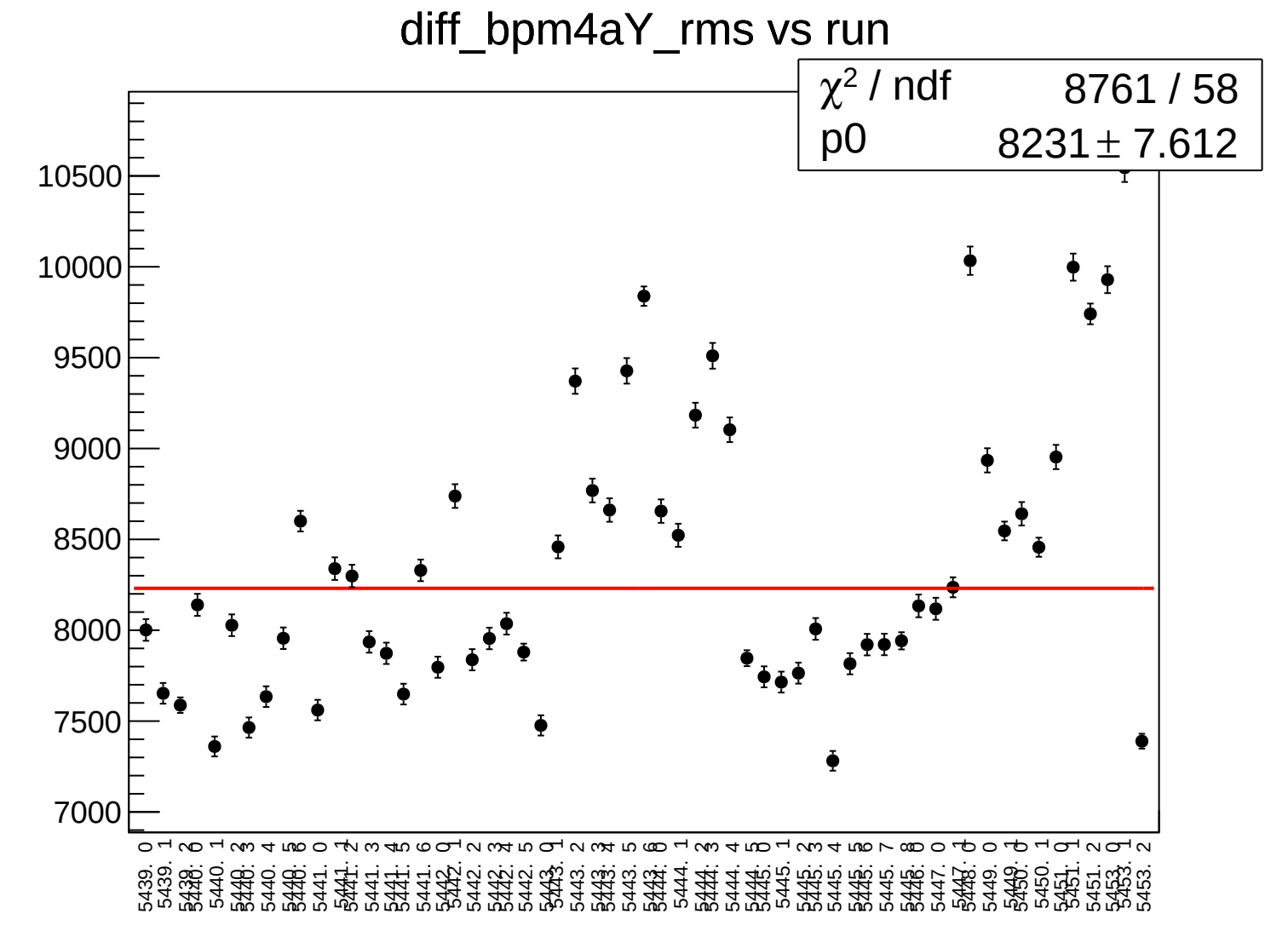

diff_bpm4aX_mean vs run
χ² / ndf 54.15 / 58
p0 −36.51 ± 15.4
pull
Entries 59
Mean −48.06
Std Dev 95.78

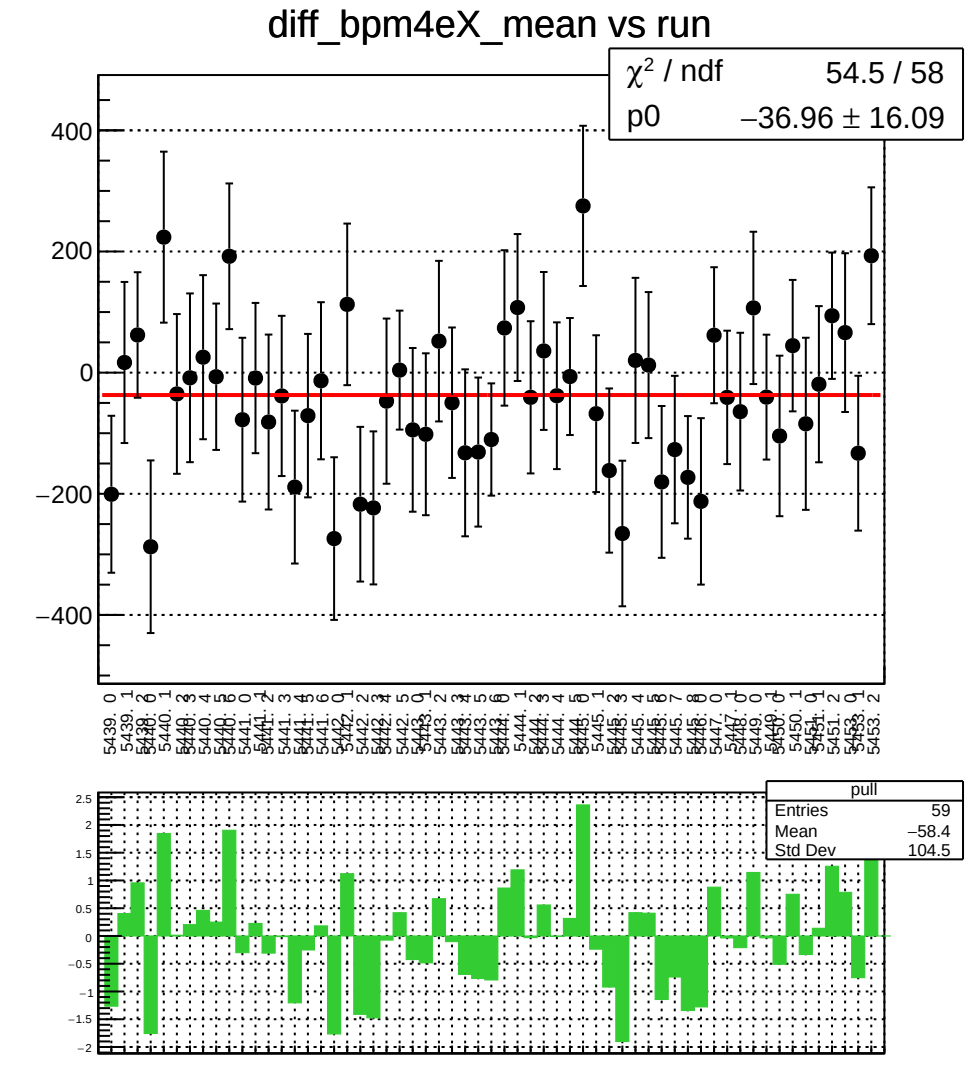

pull1D
Entries 59
Mean −0.01391
Std Dev 0.958

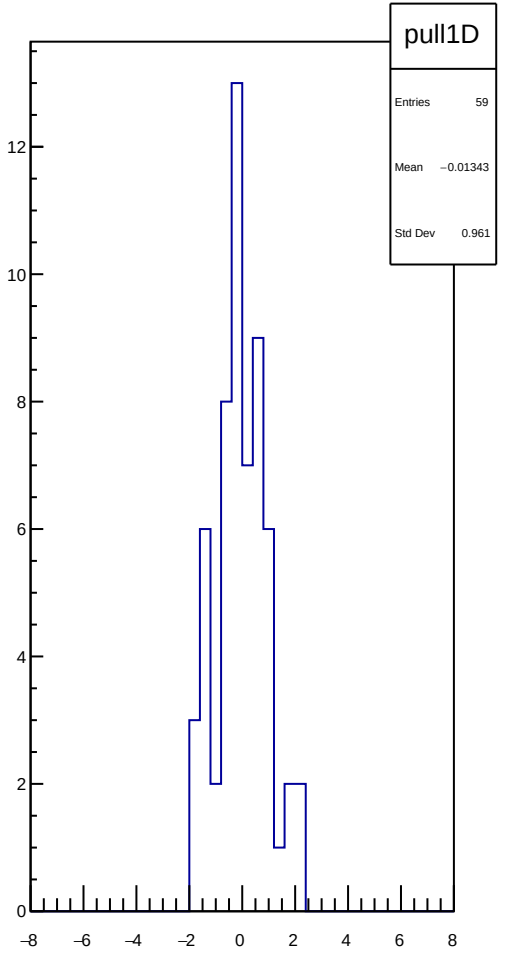

diff_bpm4aX_rms vs run
χ² / ndf 3235 / 58
p0 1.18e+04 ± 10.89
14000
13500
13000
12500
12000
11500
11000
10500
10000

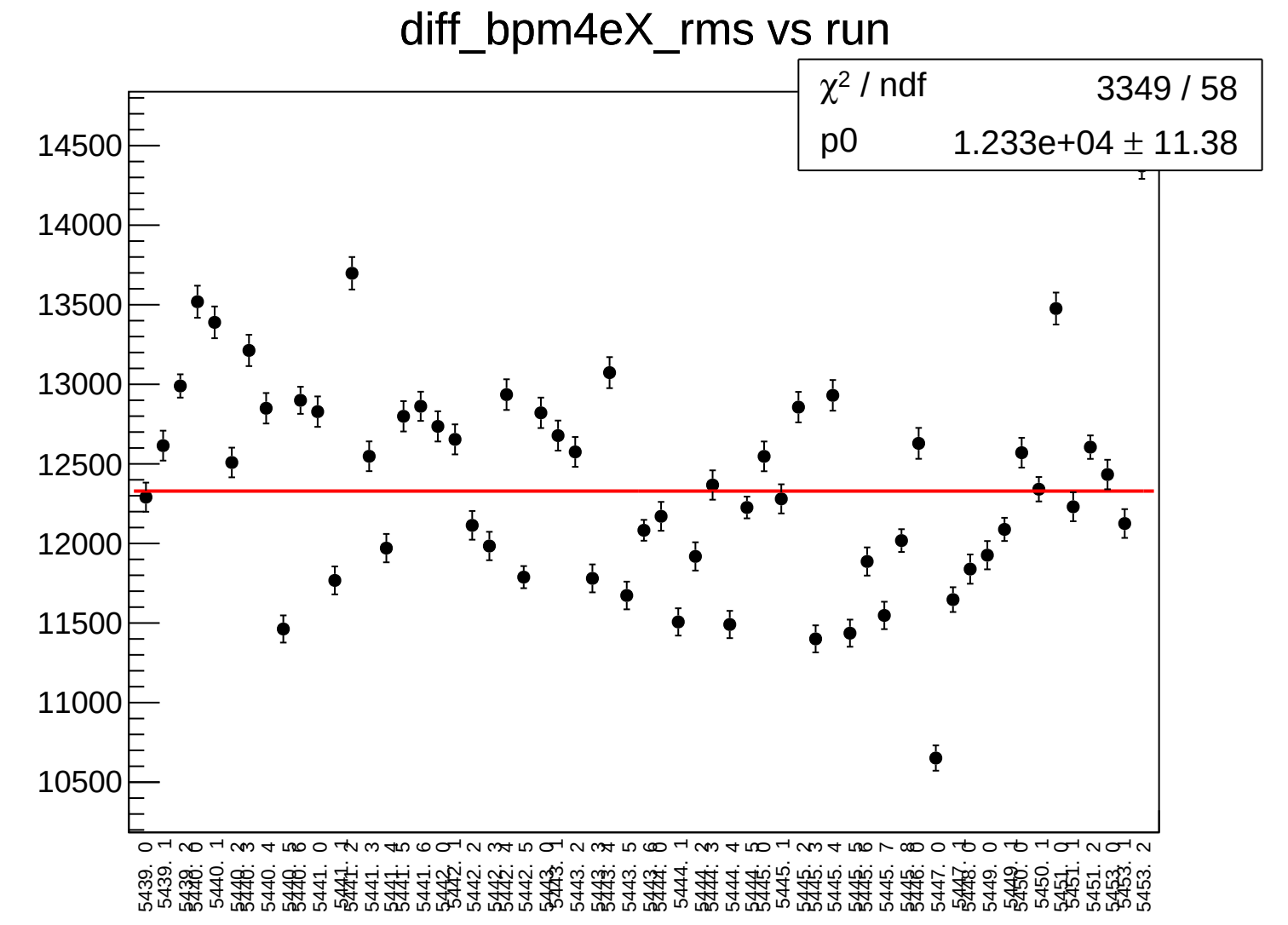

diff_bpm4aY_mean vs run
$\chi^2$ / ndf 70.91 / 58
p0 3.277 ± 10.76
pull
Entries 59
Mean 31.04
Std Dev 10.84

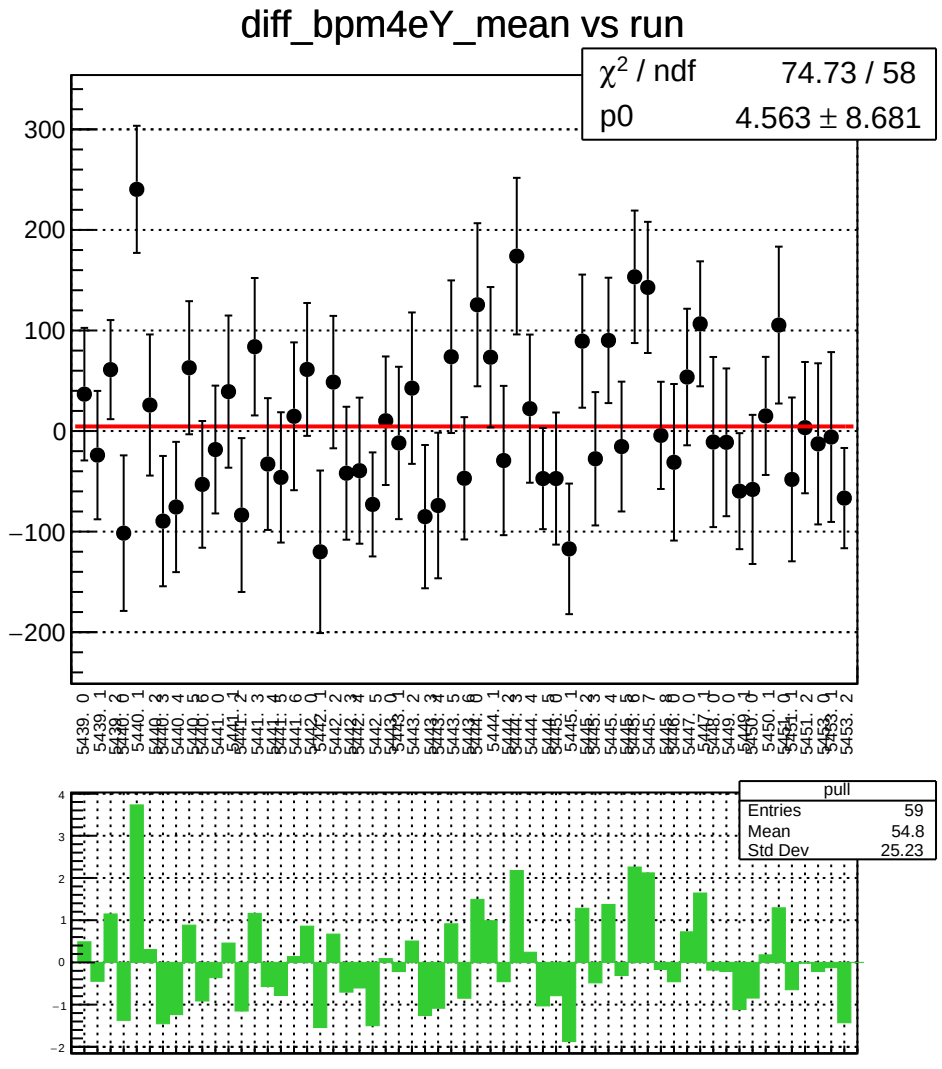

pull1D
Entries 59
Mean 0.01506
Std Dev 1.096

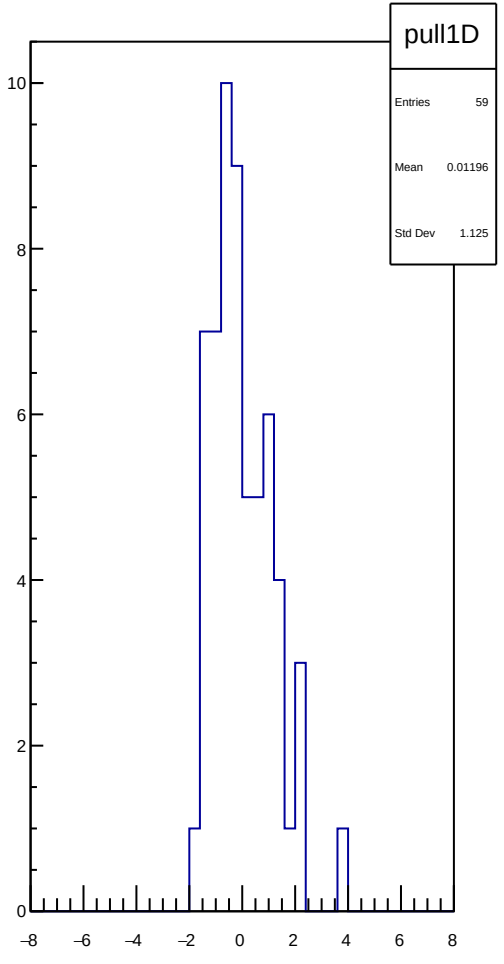

diff_bpm4aY_rms vs run
χ² / ndf 8761 / 58
p0 8231 ± 7.612
10500
10000
9500
9000
8500
8000
7500
7000

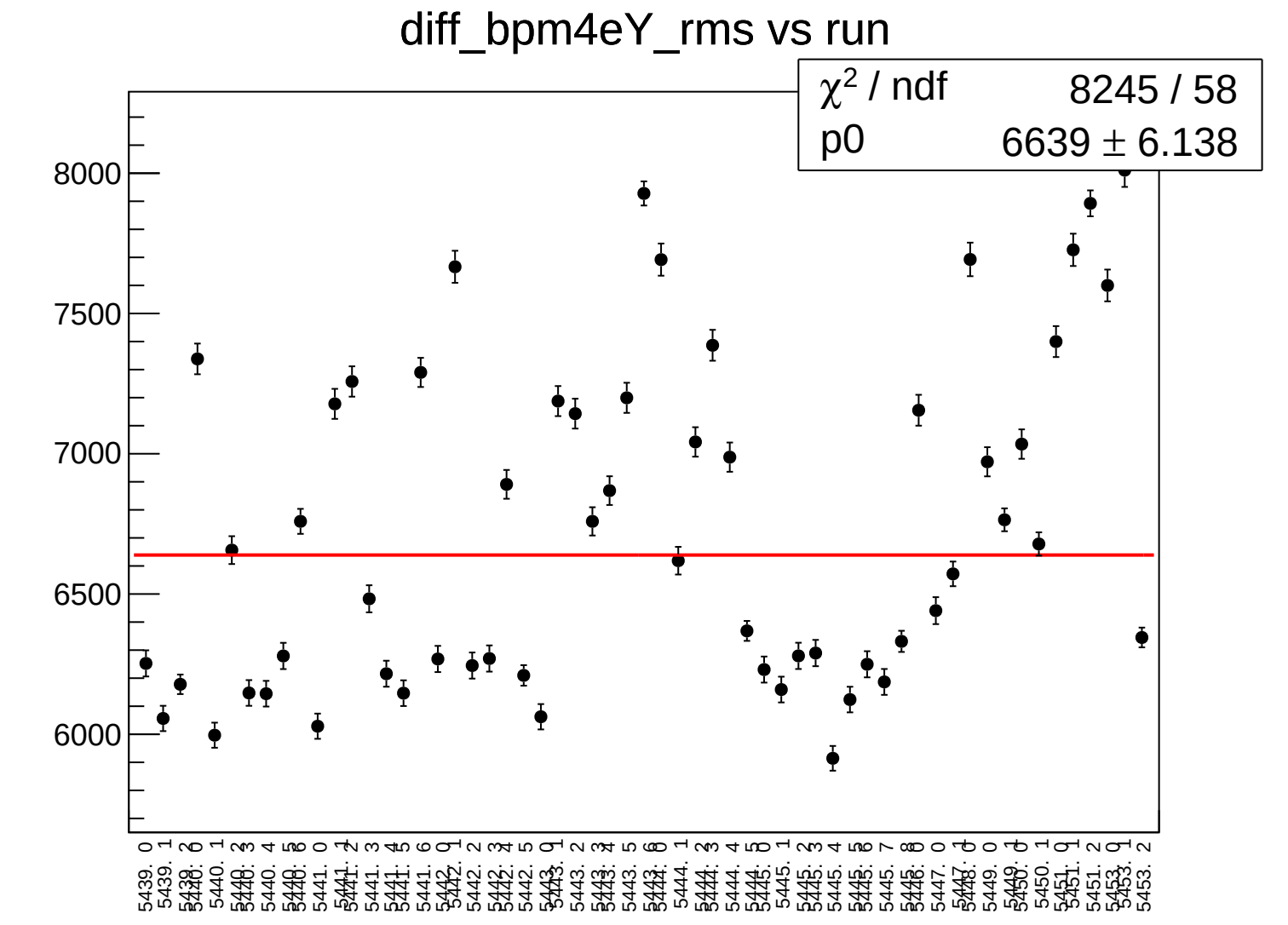

diff_bpm4eX_mean vs run
χ² / ndf 54.5 / 58
p0 −36.96 ± 16.09
400
200
0
−200
−400
pull
Entries 59
Mean −58.4
Std Dev 104.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

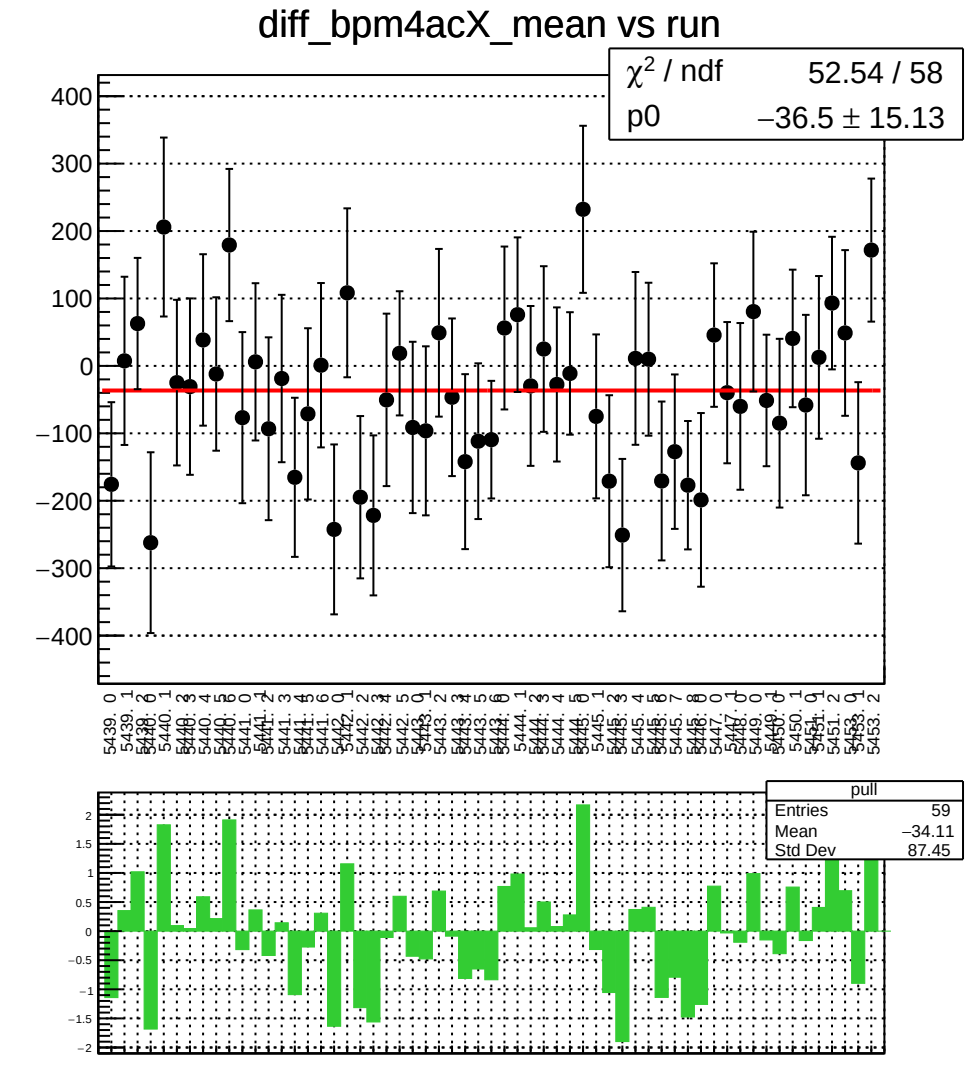

pull1D
Entries 59
Mean −0.01343
Std Dev 0.961
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

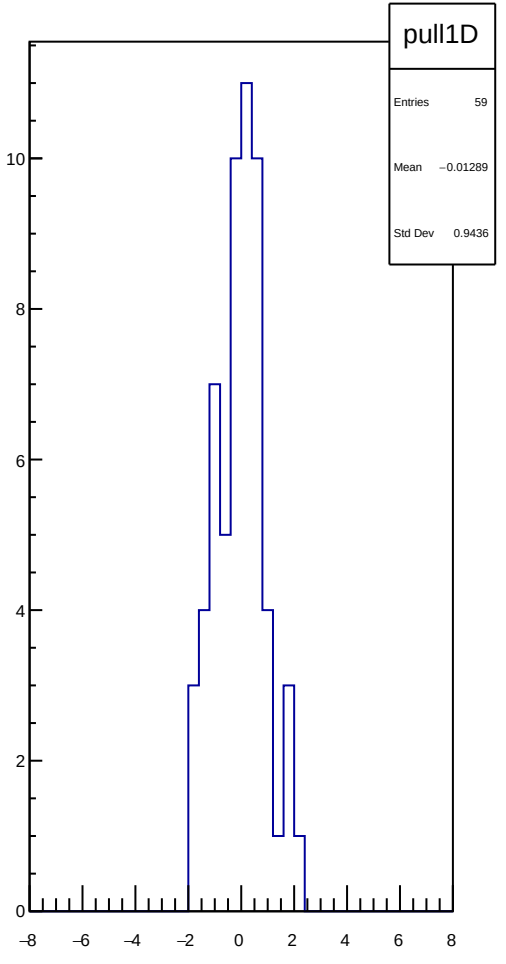

diff_bpm4eX_rms vs run
χ² / ndf 3349 / 58
p0 1.233e+04 ± 11.38
14500
14000
13500
13000
12500
12000
11500
11000
10500

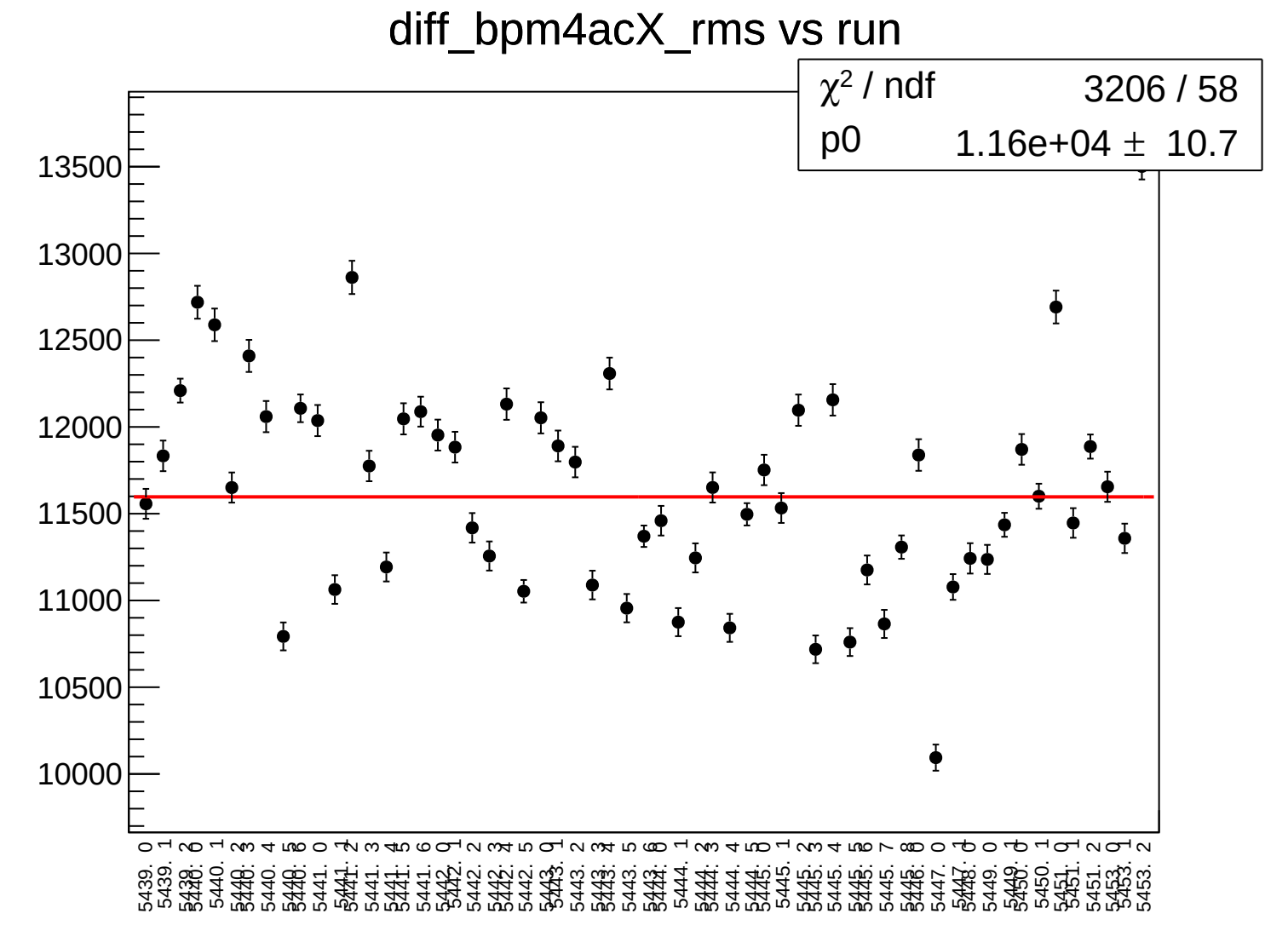

diff_bpm4eY_mean vs run
$\chi^2$ / ndf 74.73 / 58
p0 4.563 ± 8.681
pull
Entries 59
Mean 54.8
Std Dev 25.23

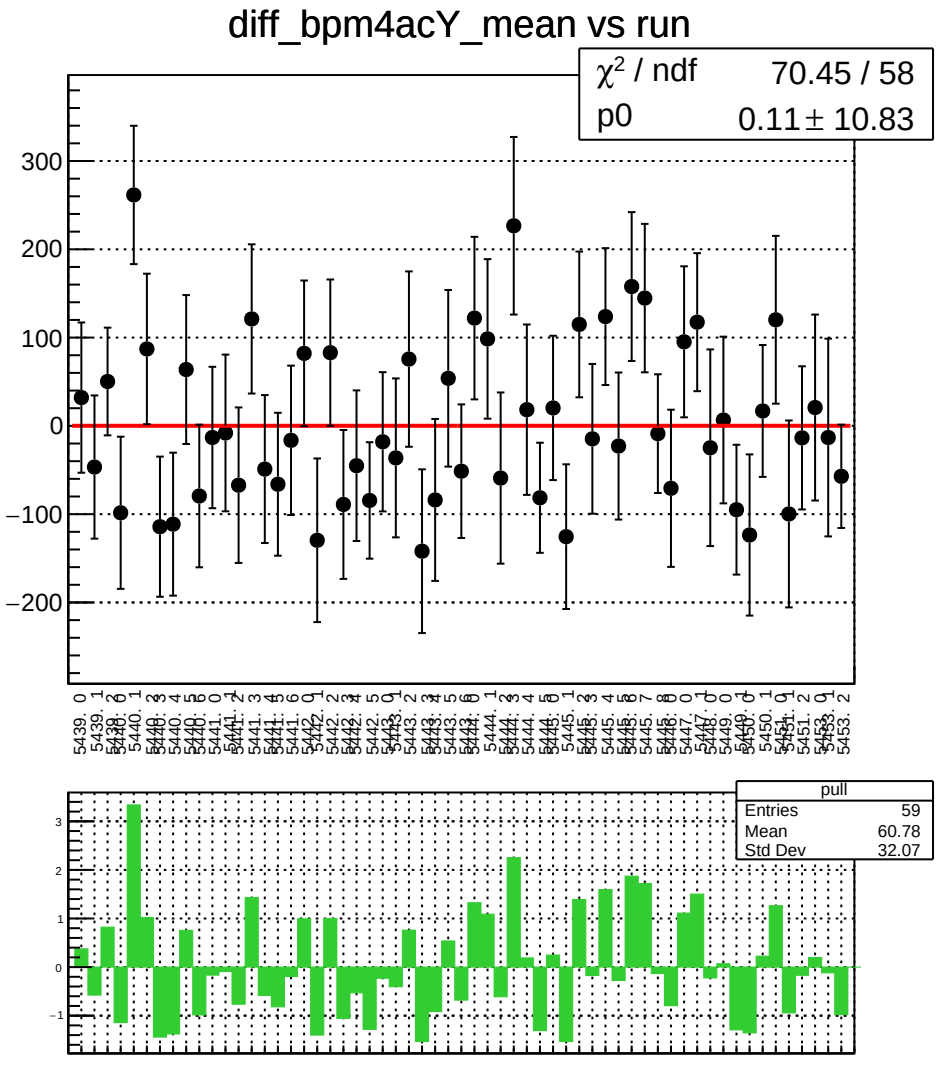

pull1D
Entries 59
Mean 0.01196
Std Dev 1.125

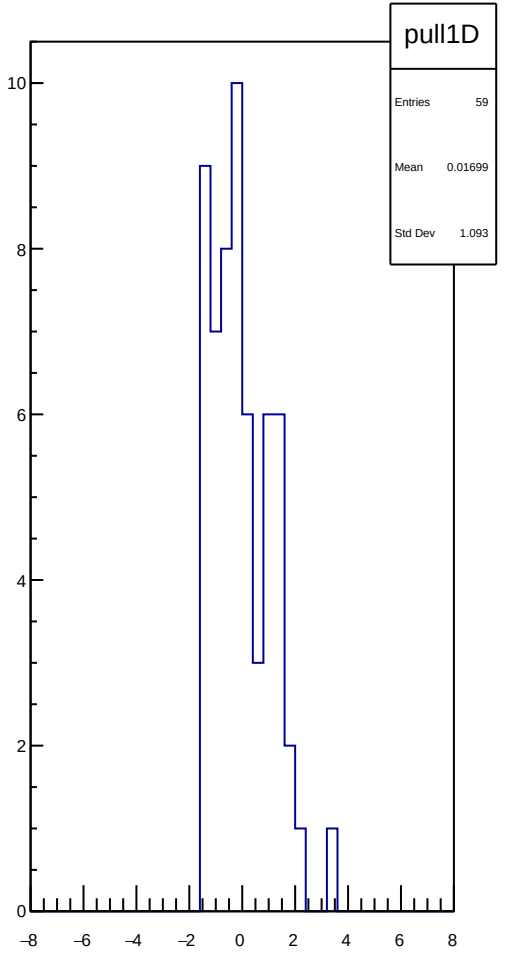

diff_bpm4eY_rms vs run
χ² / ndf 8245 / 58
p0 6639 ± 6.138
8000
7500
7000
6500
6000
5439. 0
5439. 1
5439. 2
5439. 6
5440. 1
5440. 2
5440. 3
5440. 4
5440. 5
5440. 6
5441. 0
5441. 1
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5442. 0
5442. 1
5442. 2
5442. 3
5442. 4
5442. 5
5443. 0
5443. 1
5443. 2
5443. 3
5443. 4
5443. 5
5443. 6
5444. 1
5444. 2
5444. 3
5444. 4
5444. 5
5445. 0
5445. 1
5445. 2
5445. 3
5445. 4
5445. 5
5445. 6
5445. 7
5445. 8
5446. 0
5447. 0
5447. 1
5448. 0
5449. 0
5449. 1
5450. 0
5450. 1
5451. 0
5451. 1
5451. 2
5453. 0
5453. 1
5453. 2

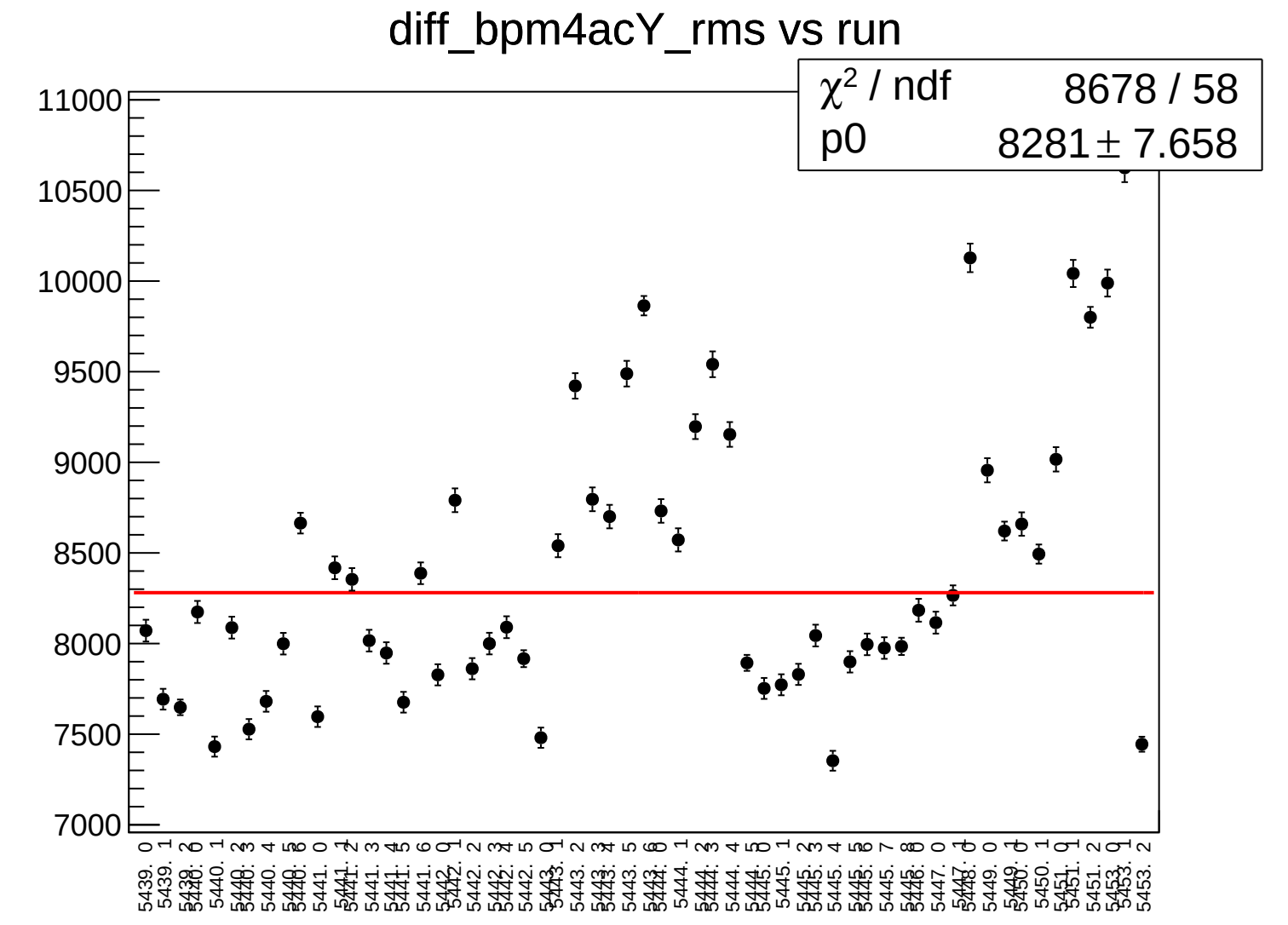

diff_bpm4acX_mean vs run
χ² / ndf 52.54 / 58
p0 −36.5 ± 15.13
pull
Entries 59
Mean −34.11
Std Dev 87.45

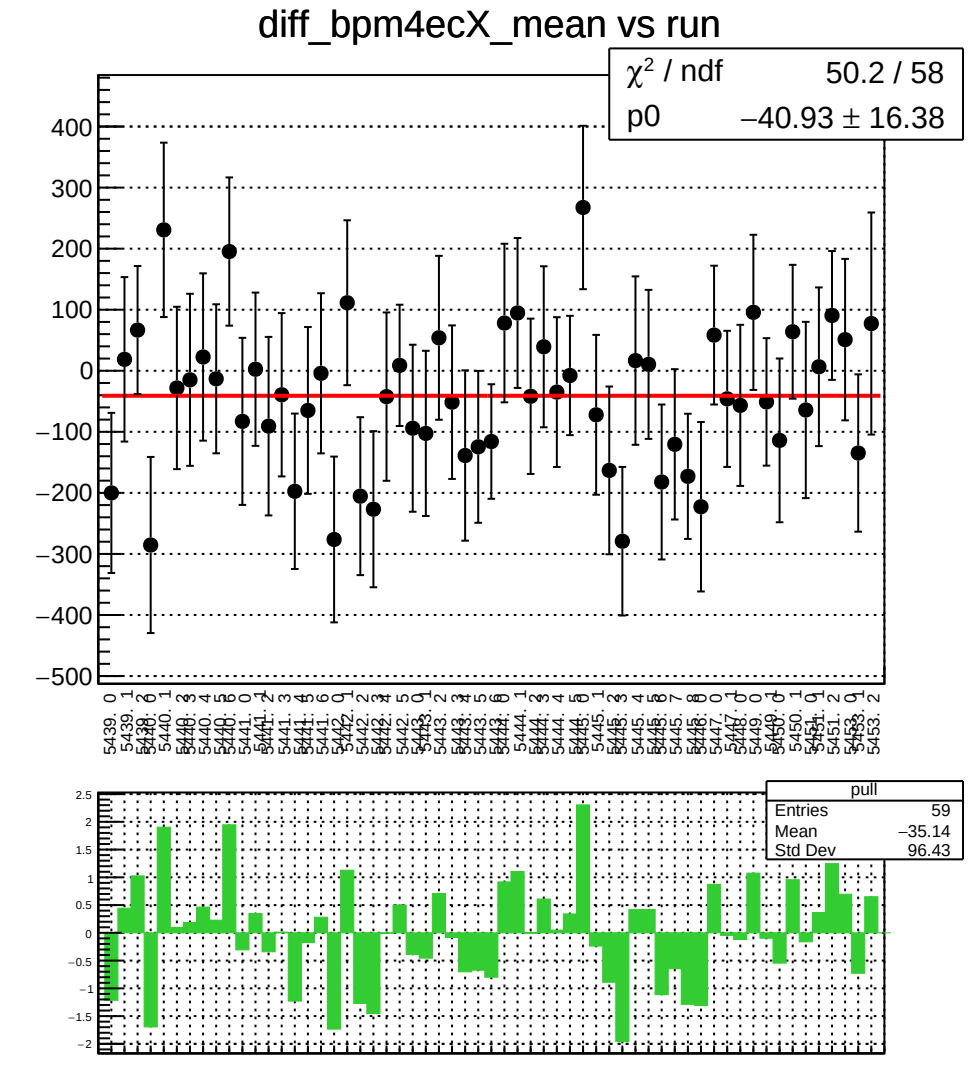

pull1D
Entries 59
Mean −0.01289
Std Dev 0.9436

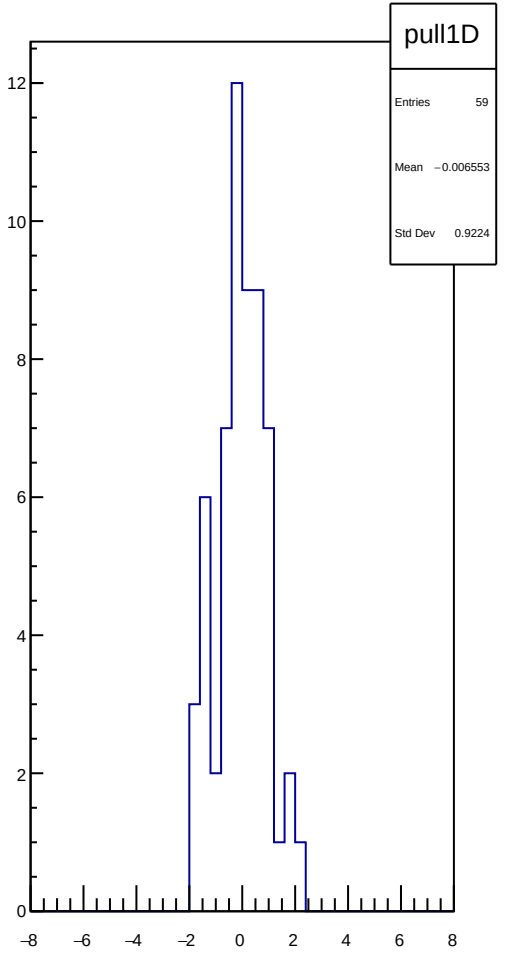

diff_bpm4acX_rms vs run
χ² / ndf 3206 / 58
p0 1.16e+04 ± 10.7
13500
13000
12500
12000
11500
11000
10500
10000

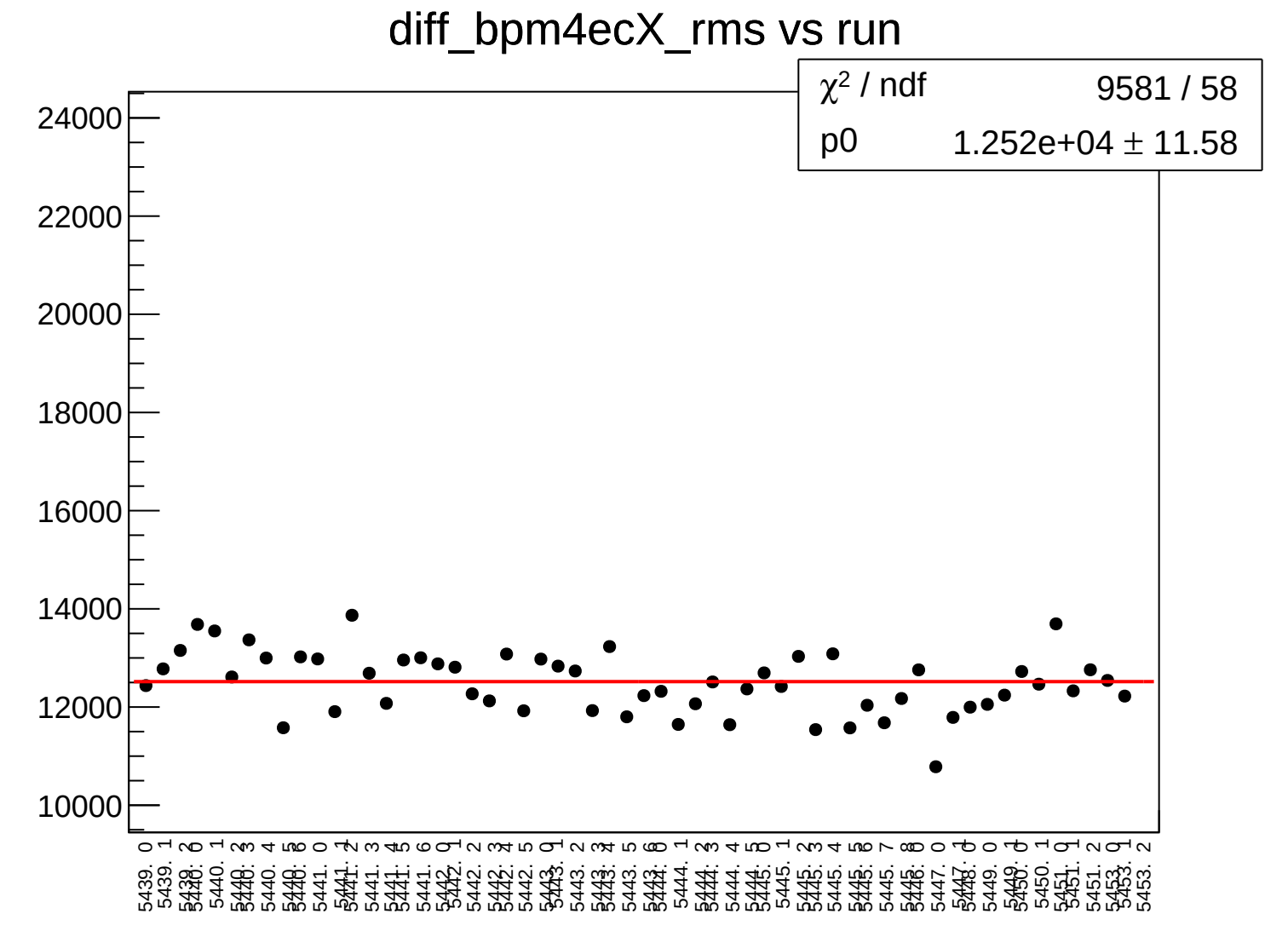

diff_bpm4acY_mean vs run
χ² / ndf 70.45 / 58
p0 0.11 ± 10.83
pull
Entries 59
Mean 60.78
Std Dev 32.07

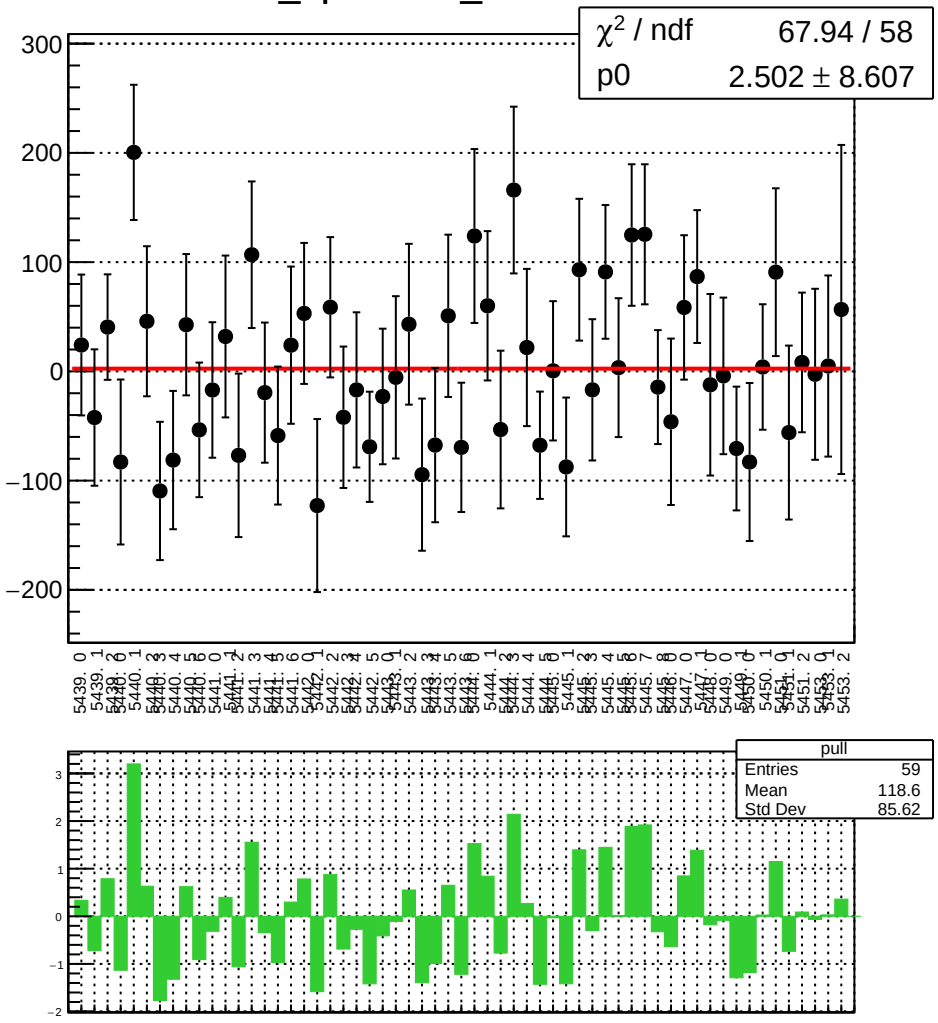

pull1D
Entries 59
Mean 0.01699
Std Dev 1.093

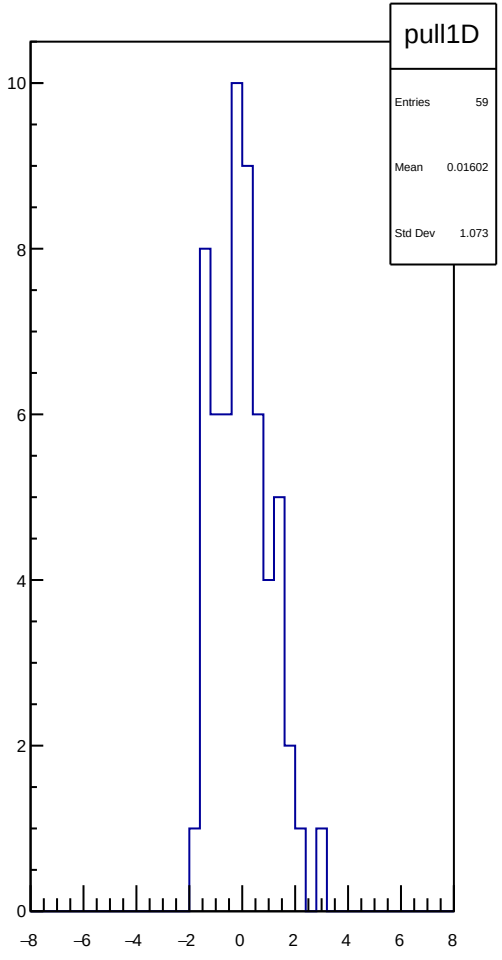

diff_bpm4acY_rms vs run
χ² / ndf 8678 / 58
p0 8281 ± 7.658
11000
10500
10000
9500
9000
8500
8000
7500
7000

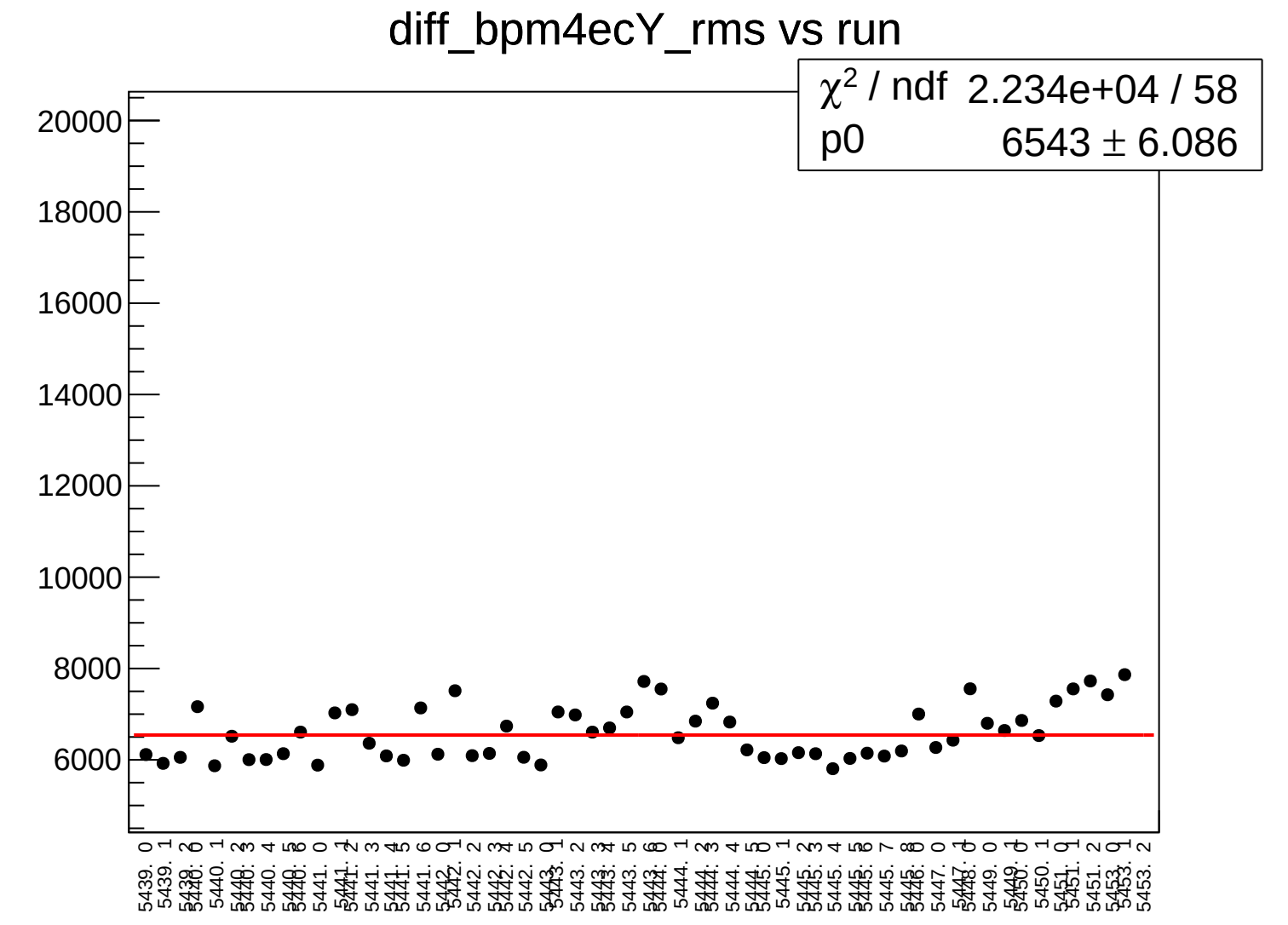

diff_bpm4ecX_mean vs run
χ² / ndf 50.2 / 58
p0 −40.93 ± 16.38
pull
Entries 59
Mean −35.14
Std Dev 96.43

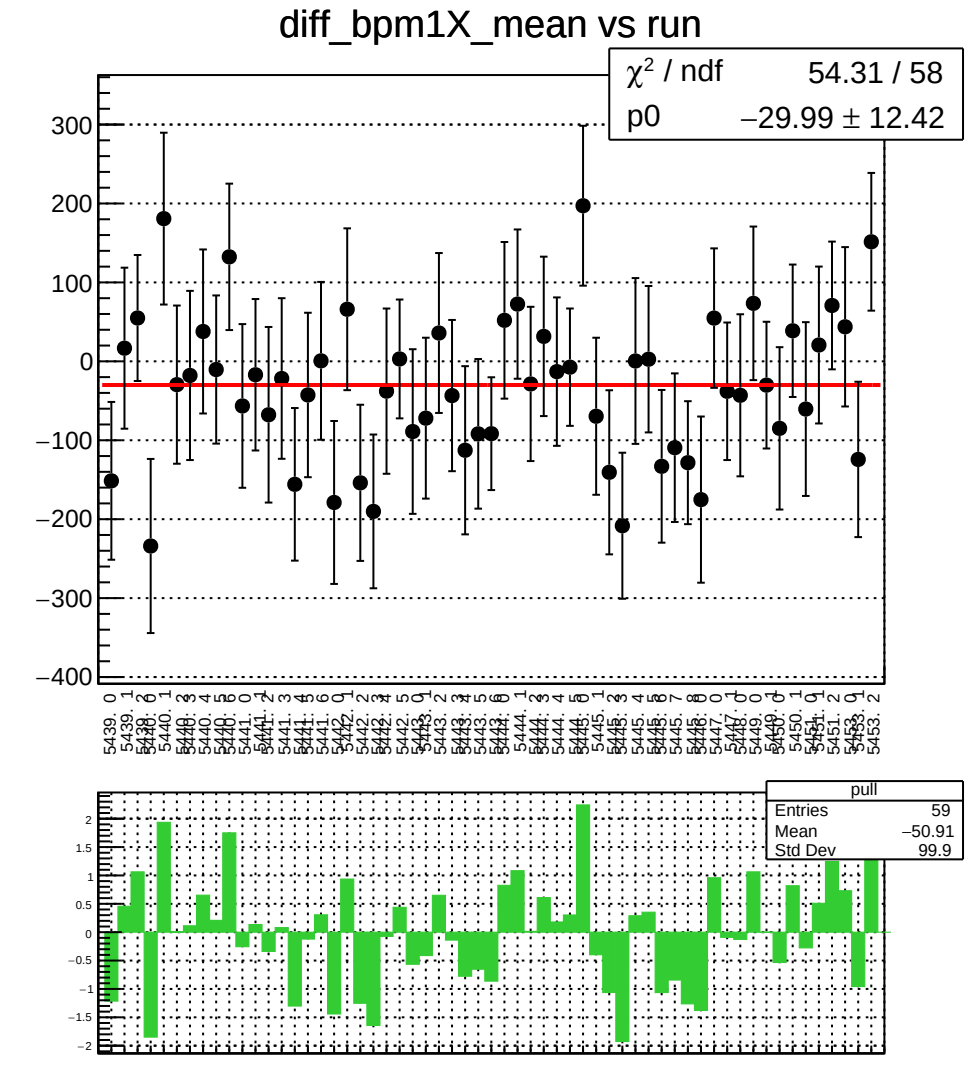

pull1D
Entries 59
Mean −0.006553
Std Dev 0.9224

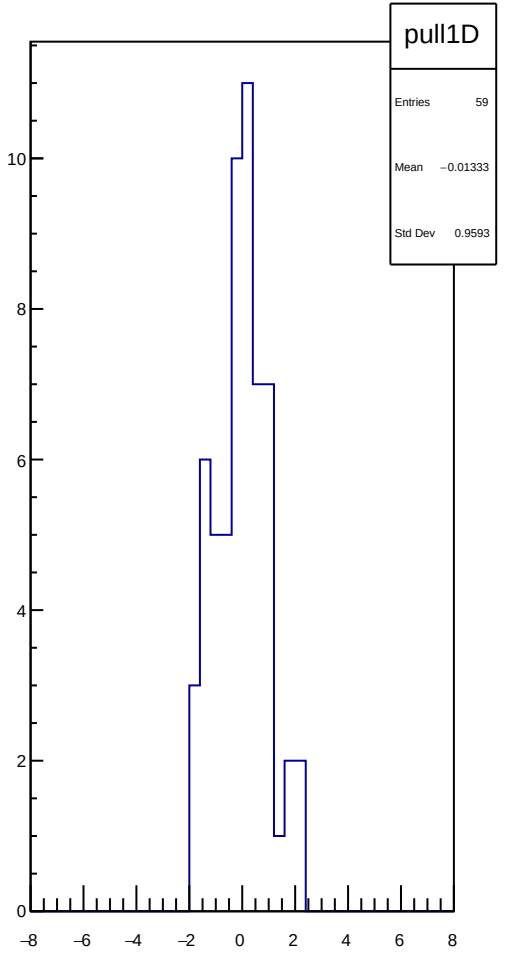

diff_bpm4ecX_rms vs run
χ² / ndf 9581 / 58
p0 1.252e+04 ± 11.58
24000
22000
20000
18000
16000
14000
12000
10000

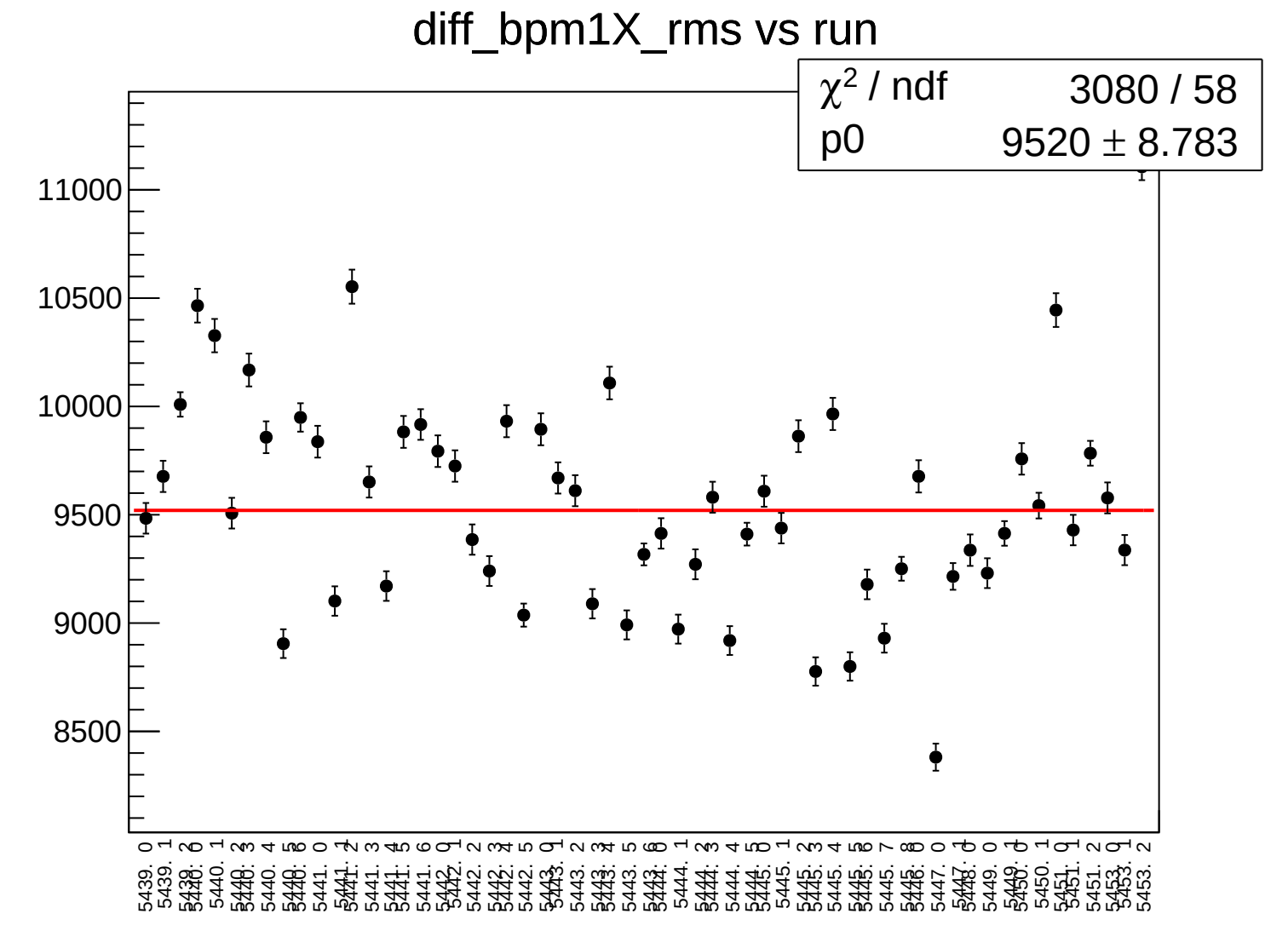

diff_bpm4ecY_mean vs run
χ² / ndf 67.94 / 58
p0 2.502 ± 8.607
pull
Entries 59
Mean 118.6
Std Dev 85.62

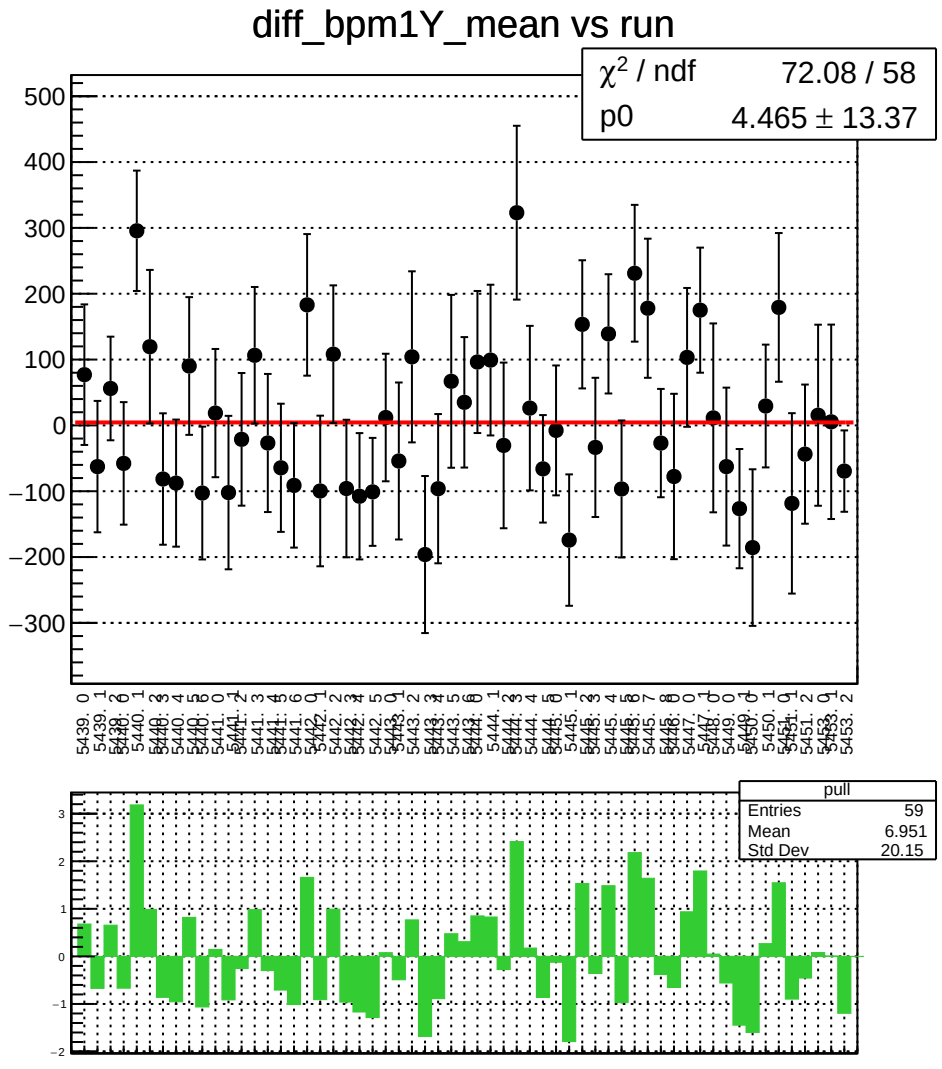

pull1D
Entries 59
Mean 0.01602
Std Dev 1.073

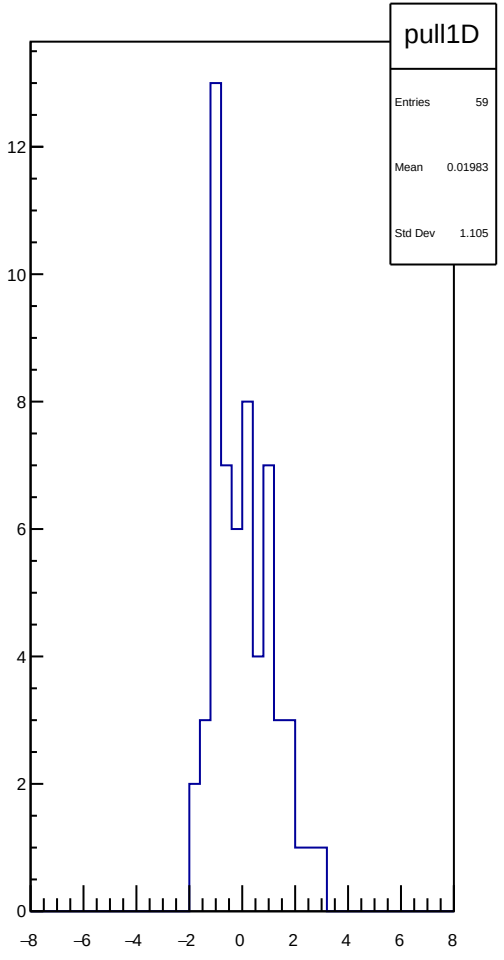

diff_bpm4ecY_rms vs run
χ² / ndf 2.234e+04 / 58
p0 6543 ± 6.086
20000
18000
16000
14000
12000
10000
8000
6000

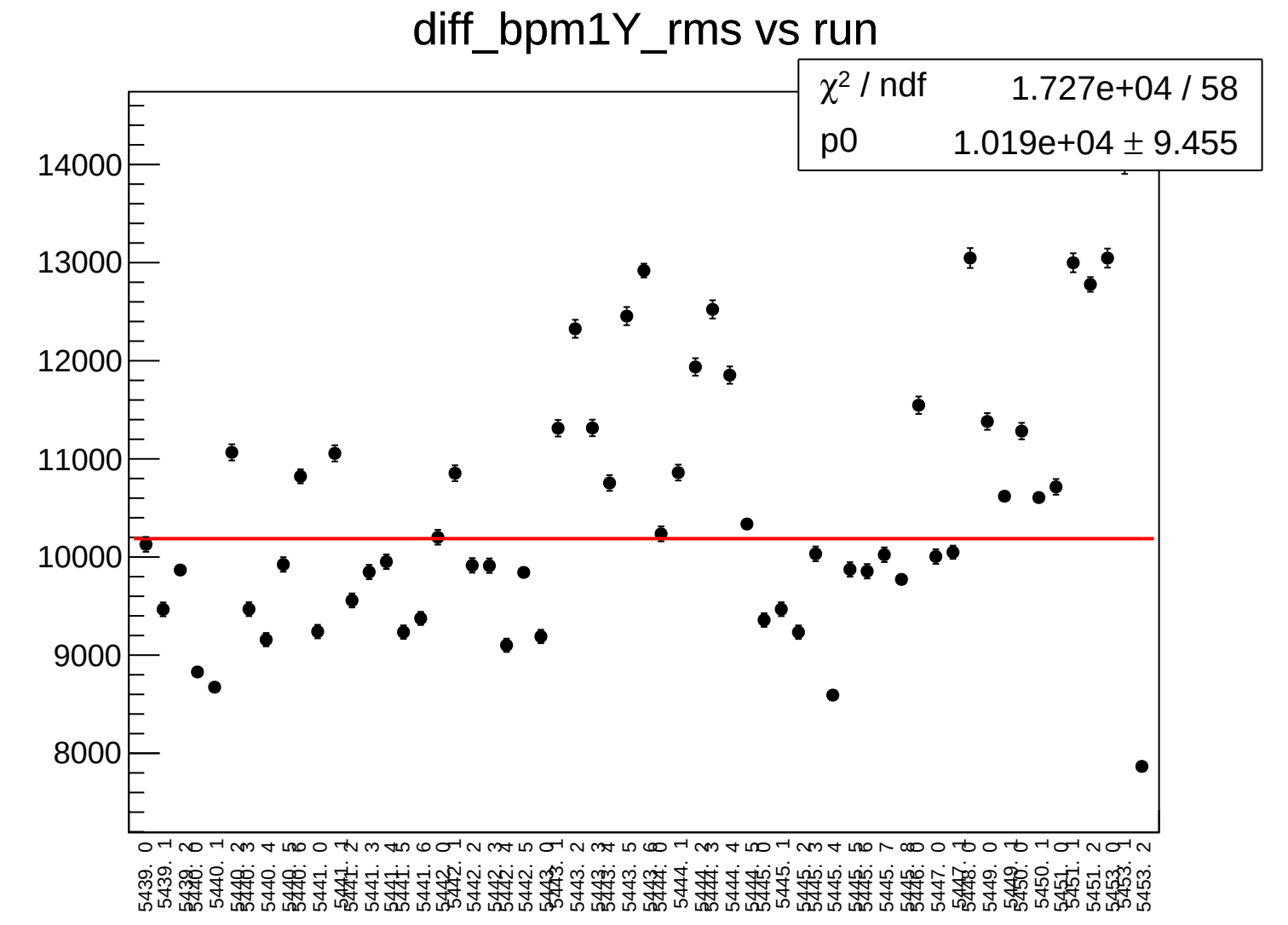

diff_bpm1X_mean vs run
χ² / ndf 54.31 / 58
p0 −29.99 ± 12.42
pull
Entries 59
Mean −50.91
Std Dev 99.9

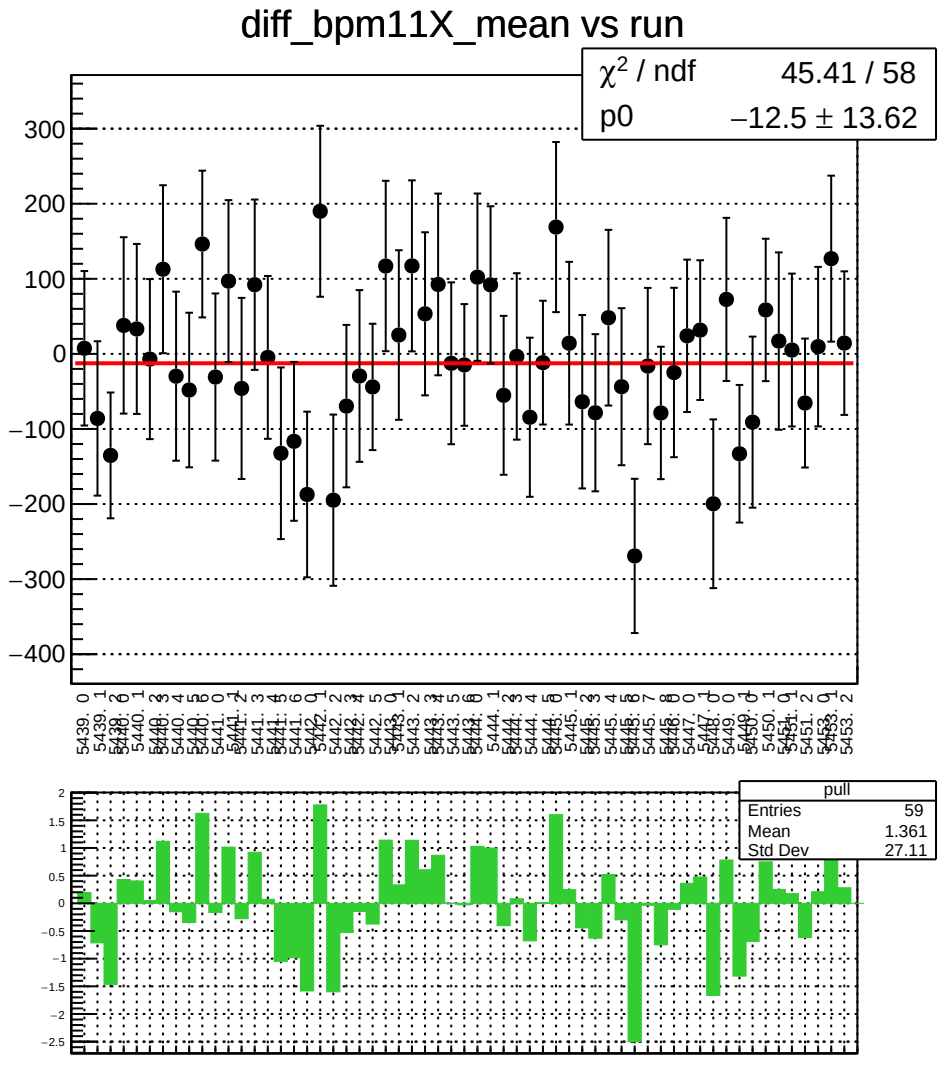

pull1D
Entries 59
Mean −0.01333
Std Dev 0.9593

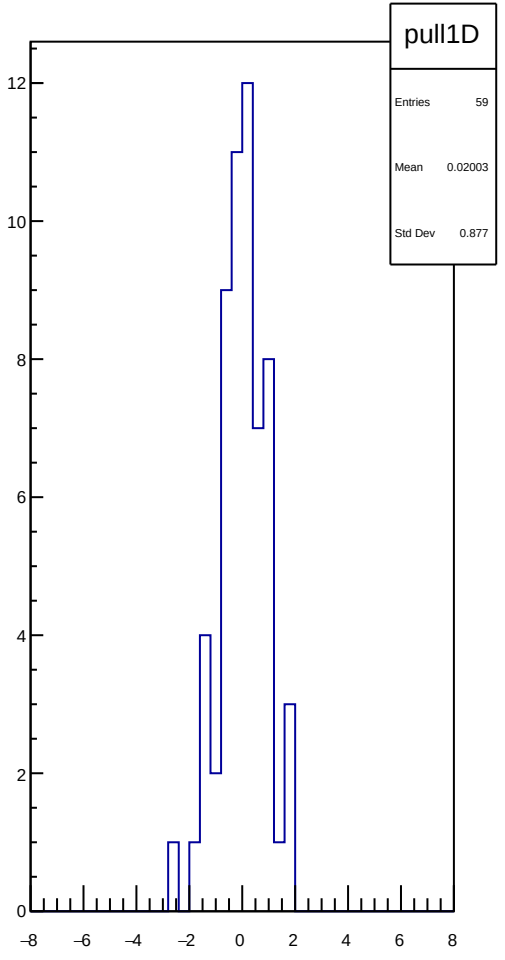

diff_bpm1X_rms vs run
χ² / ndf 3080 / 58
p0 9520 ± 8.783
11000
10500
10000
9500
9000
8500

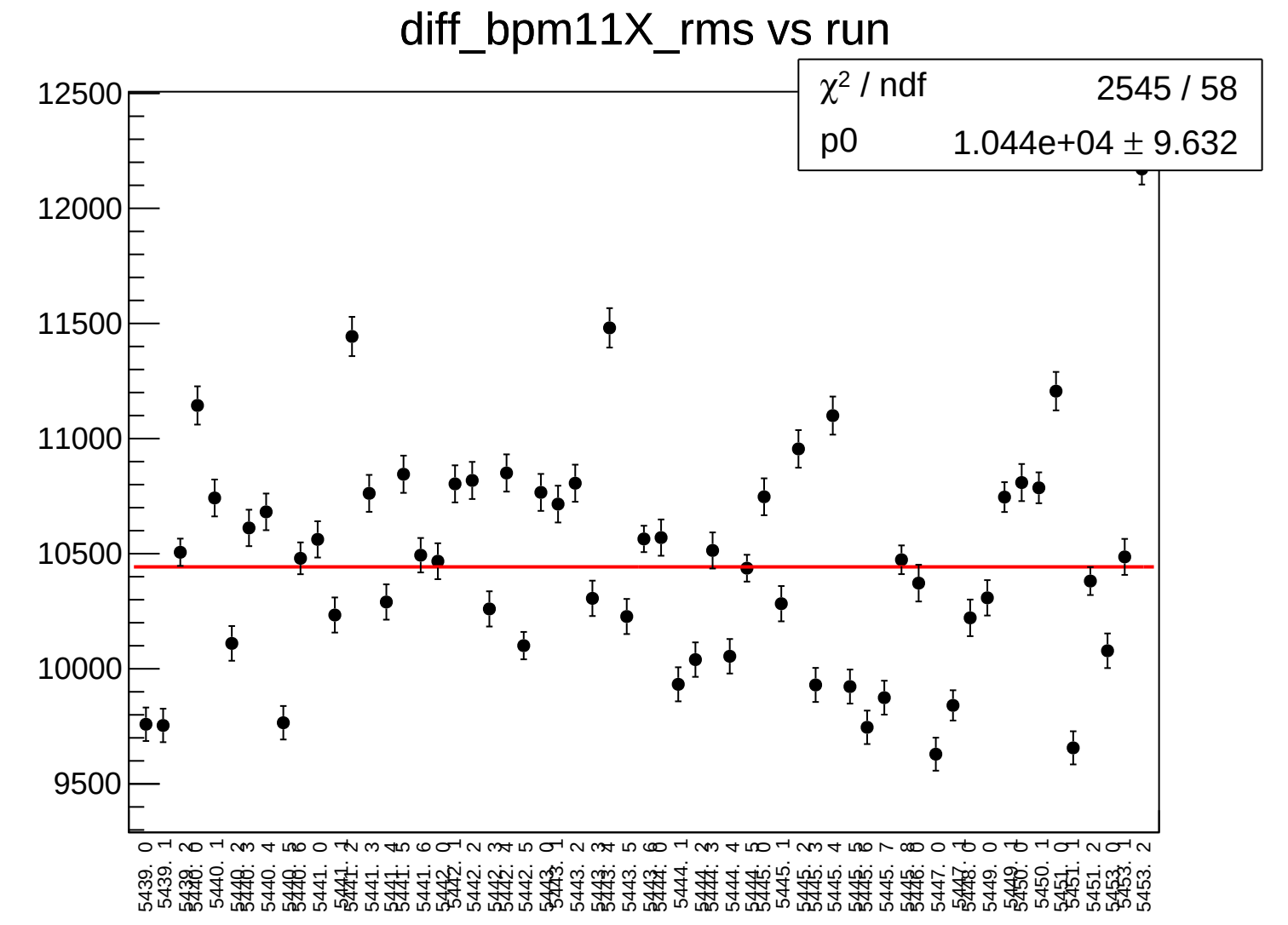

diff_bpm1Y_mean vs run
χ² / ndf 72.08 / 58
p0 4.465 ± 13.37
pull
Entries 59
Mean 6.951
Std Dev 20.15

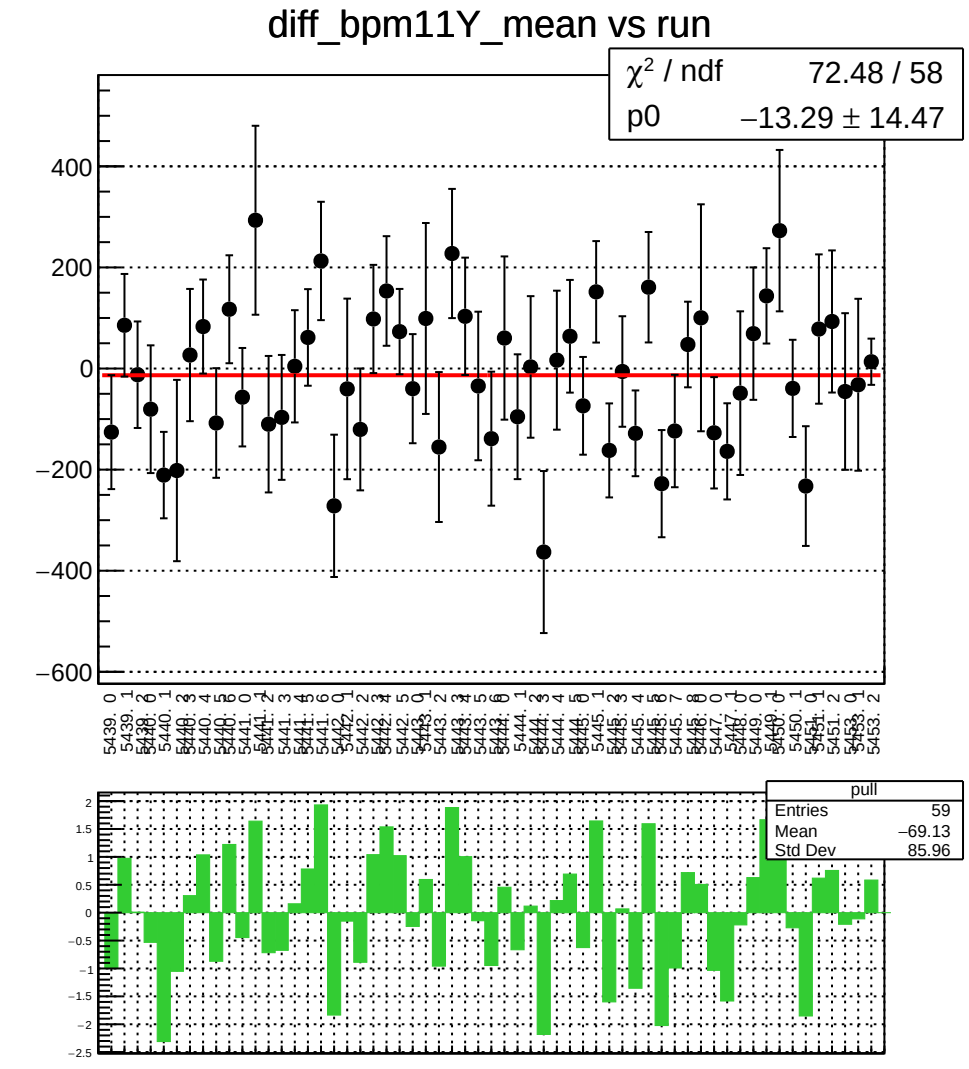

pull1D
Entries 59
Mean 0.01983
Std Dev 1.105

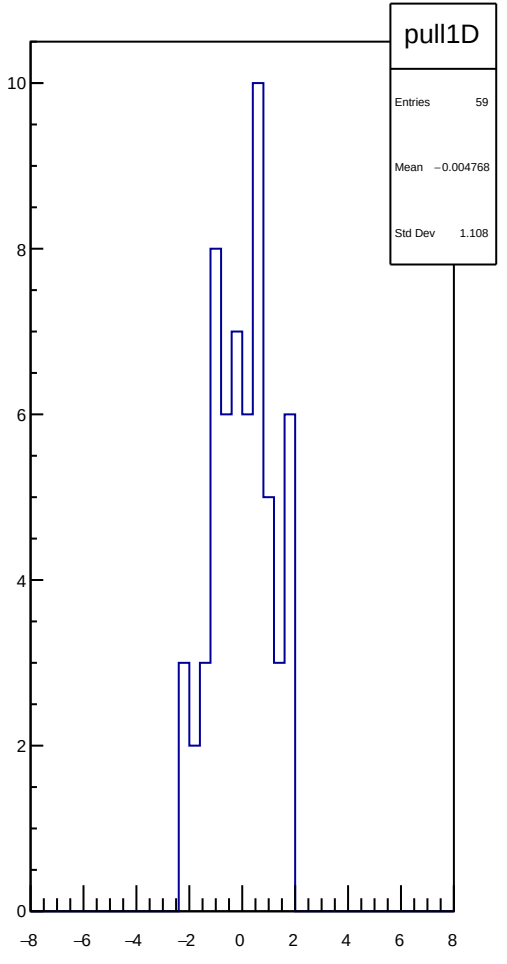

diff_bpm1Y_rms vs run
χ² / ndf 1.727e+04 / 58
p0 1.019e+04 ± 9.455
14000
13000
12000
11000
10000
9000
8000

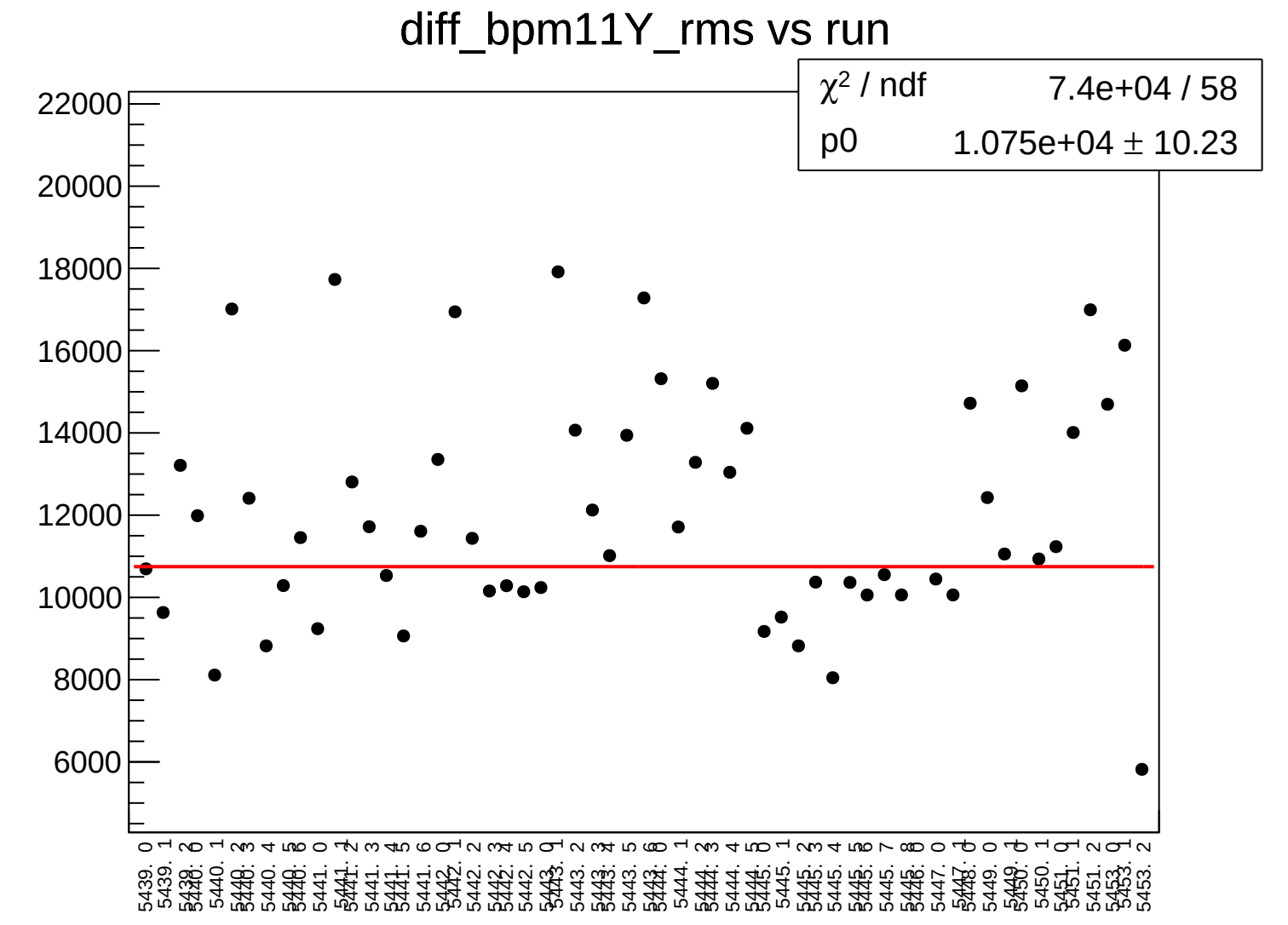

diff_bpm11X_mean vs run
$\chi^2$ / ndf 45.41 / 58
p0 −12.5 ± 13.62
pull
Entries 59
Mean 1.361
Std Dev 27.11

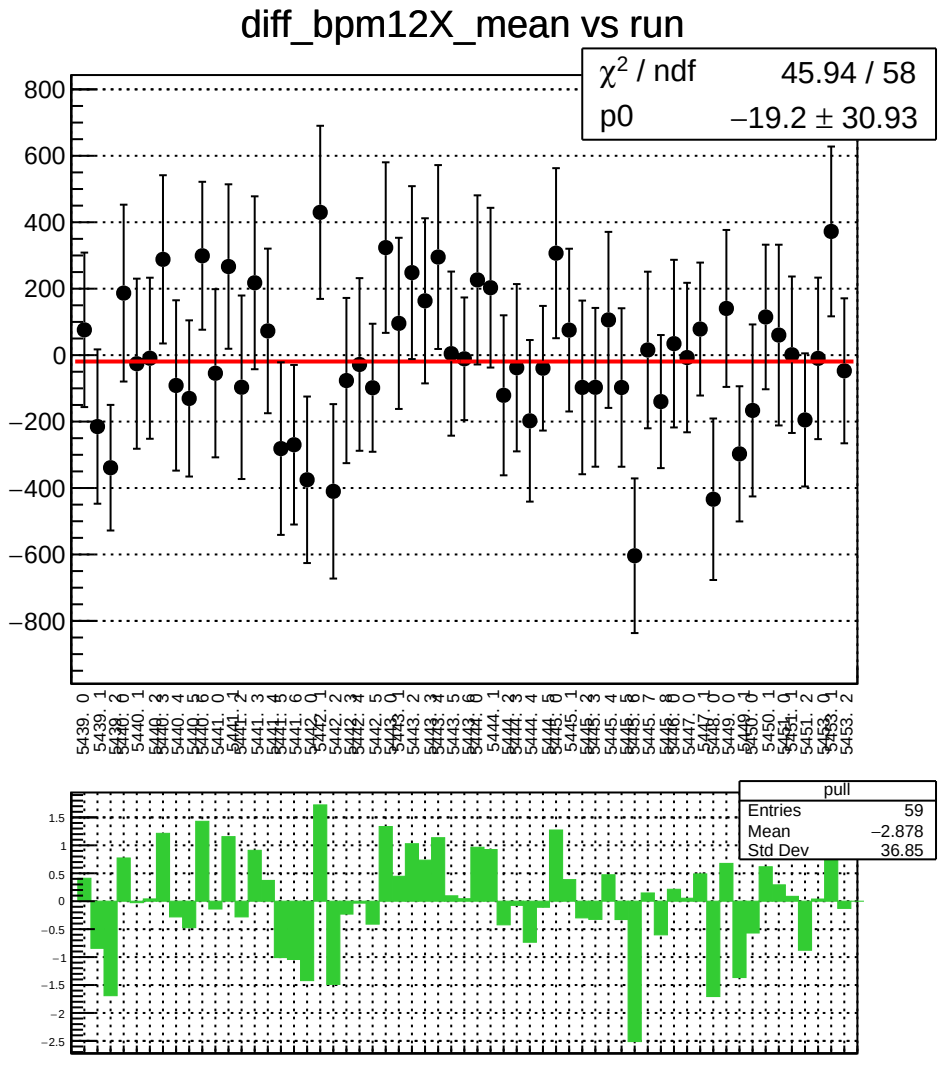

pull1D
Entries 59
Mean 0.02003
Std Dev 0.877

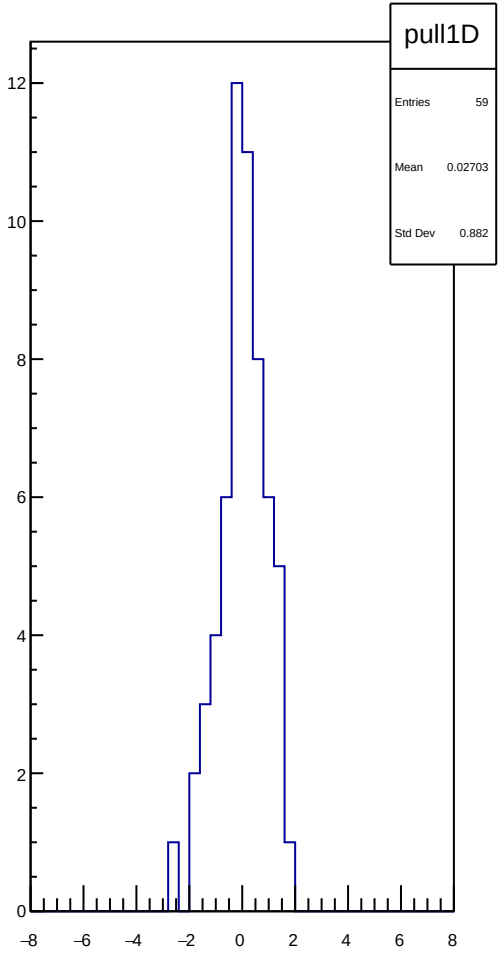

diff_bpm11X_rms vs run
χ² / ndf 2545 / 58
p0 1.044e+04 ± 9.632
12500
12000
11500
11000
10500
10000
9500

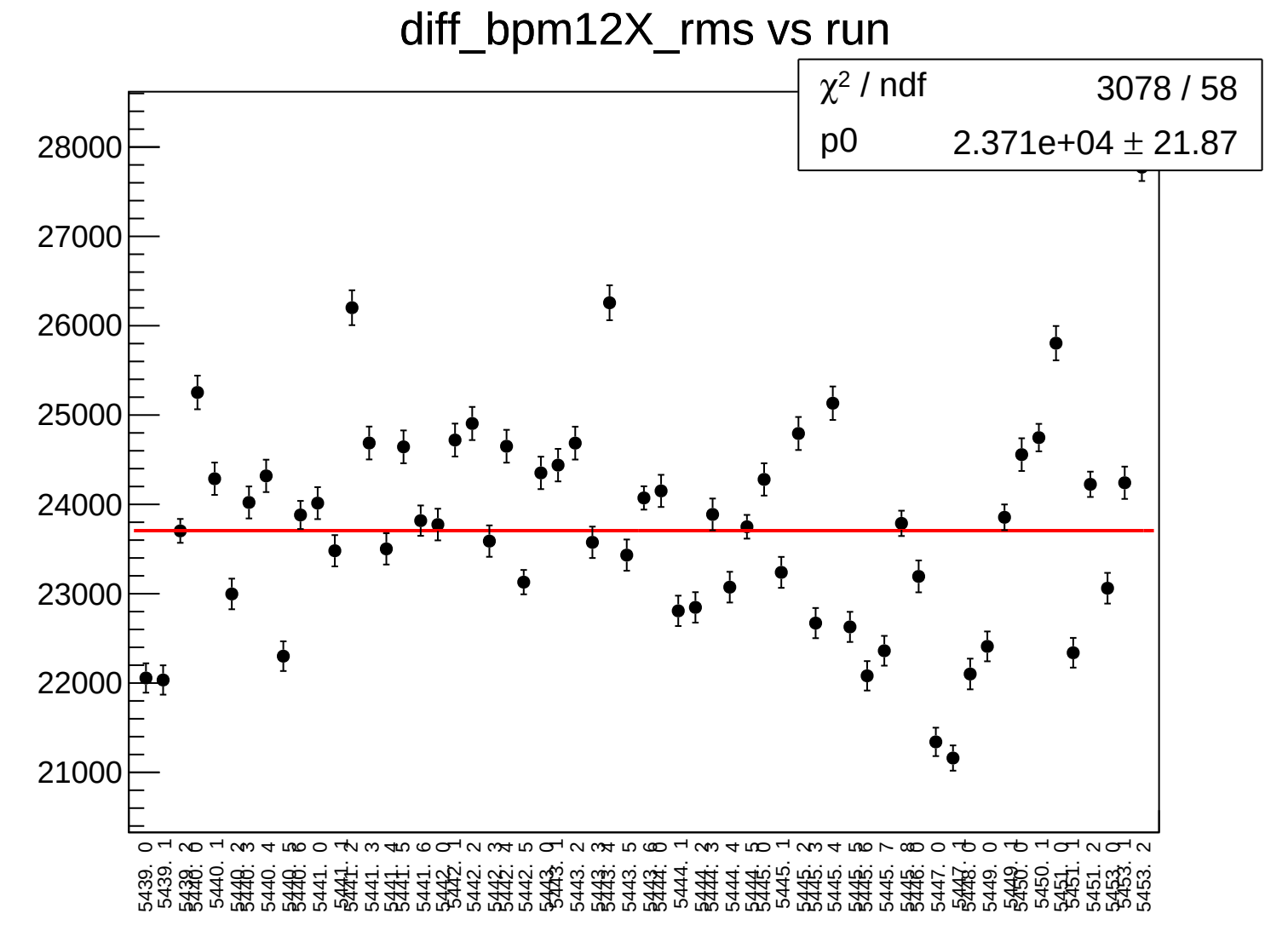

diff_bpm11Y_mean vs run
χ² / ndf 72.48 / 58
p0 −13.29 ± 14.47
pull
Entries 59
Mean −69.13
Std Dev 85.96

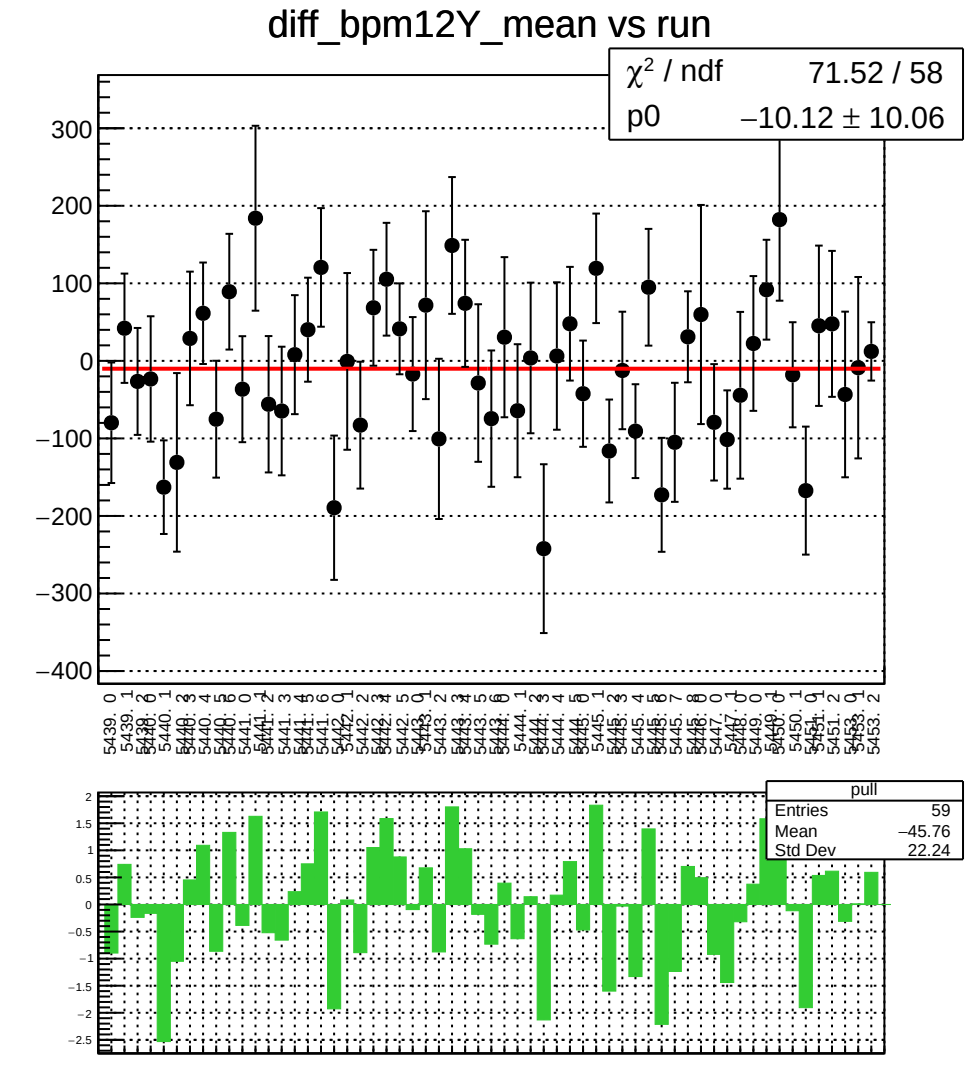

pull1D
Entries 59
Mean −0.004768
Std Dev 1.108

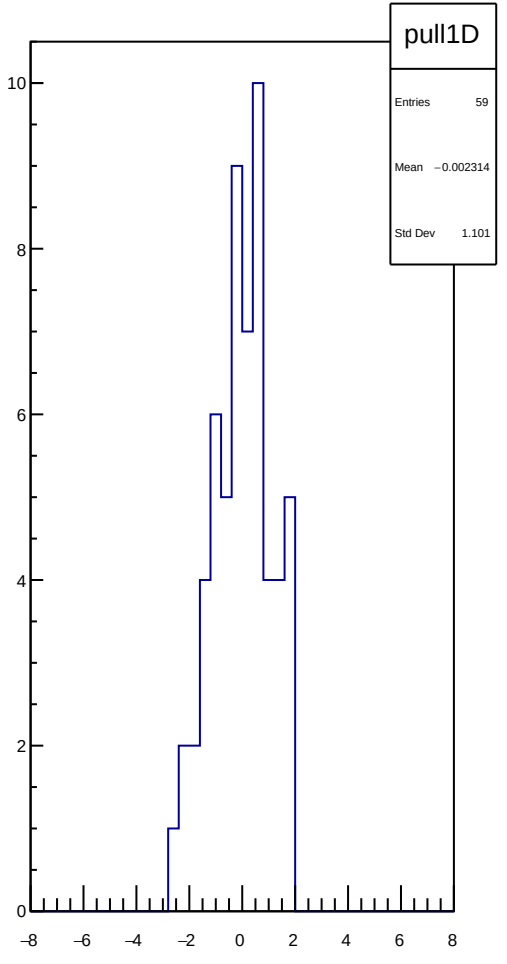

diff_bpm11Y_rms vs run
χ² / ndf 7.4e+04 / 58
p0 1.075e+04 ± 10.23
22000
20000
18000
16000
14000
12000
10000
8000
6000

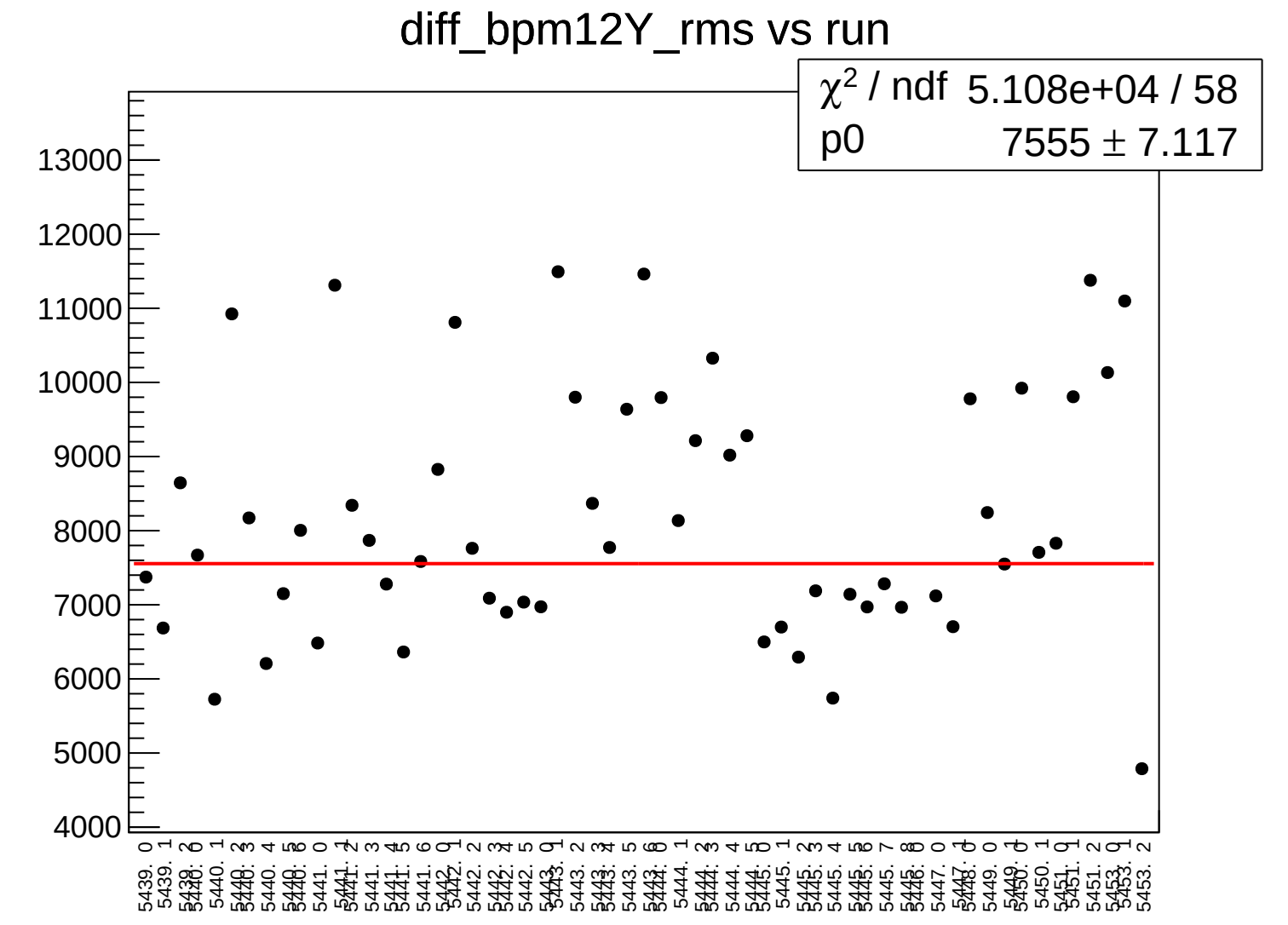

diff_bpm12X_mean vs run
χ² / ndf 45.94 / 58
p0 −19.2 ± 30.93
pull
Entries 59
Mean −2.878
Std Dev 36.85

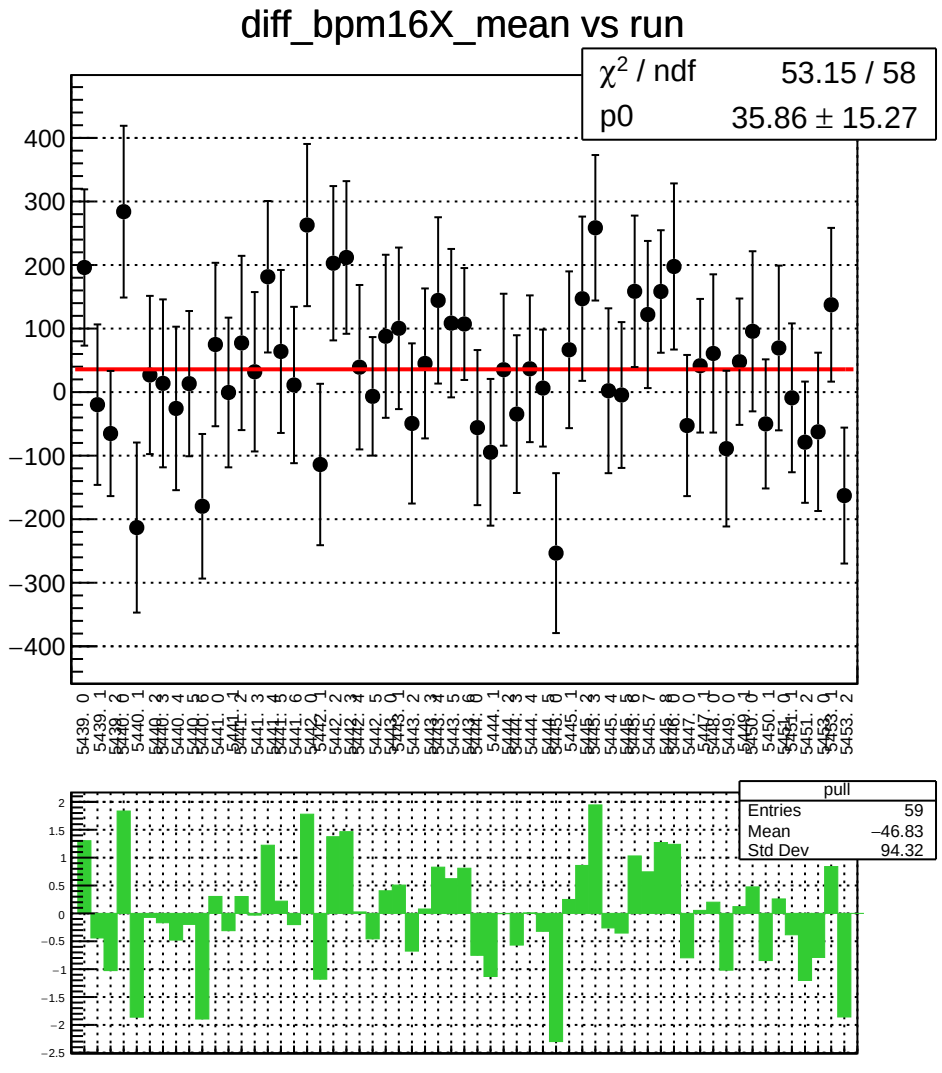

pull1D
Entries 59
Mean 0.02703
Std Dev 0.882

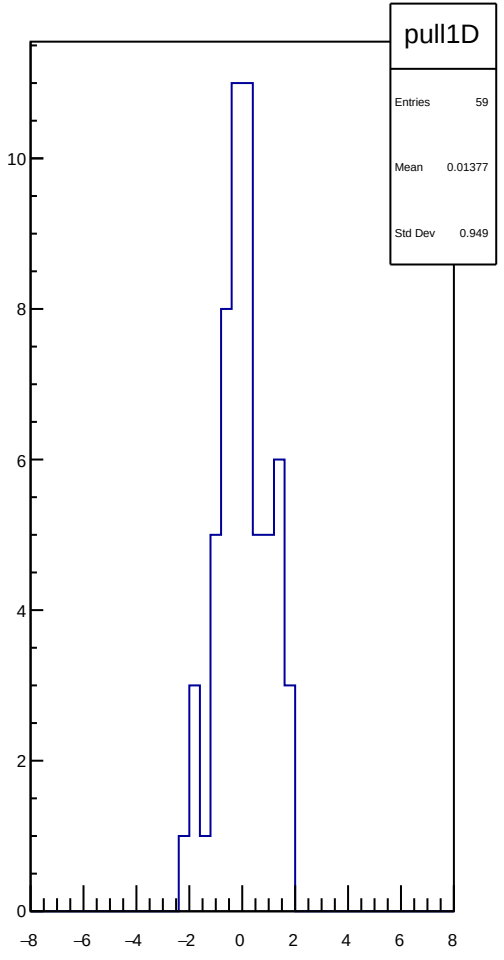

diff_bpm12X_rms vs run
χ² / ndf 3078 / 58
p0 2.371e+04 ± 21.87
28000
27000
26000
25000
24000
23000
22000
21000

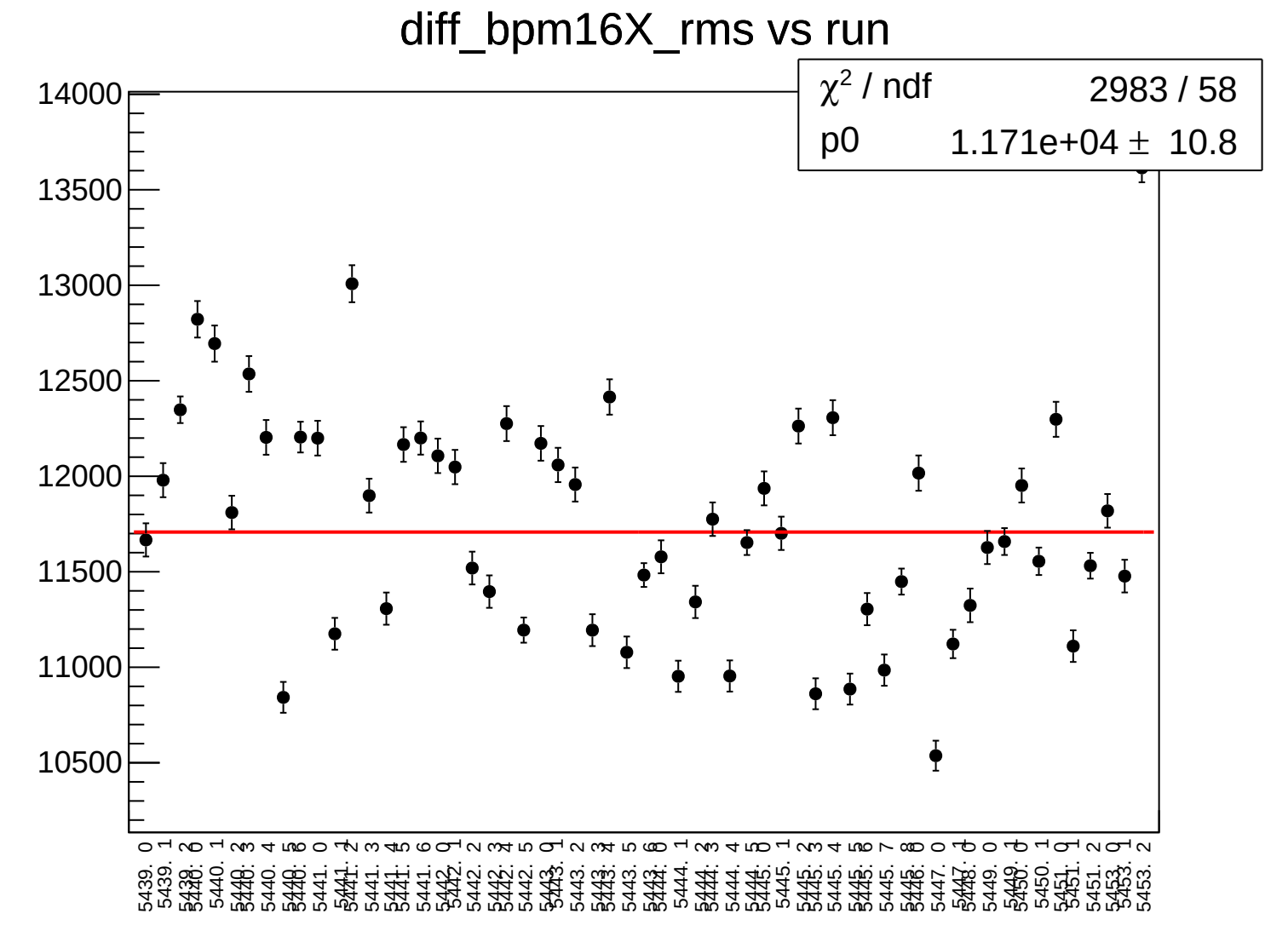

diff_bpm12Y_mean vs run
χ² / ndf 71.52 / 58
p0 −10.12 ± 10.06
pull
Entries 59
Mean −45.76
Std Dev 22.24

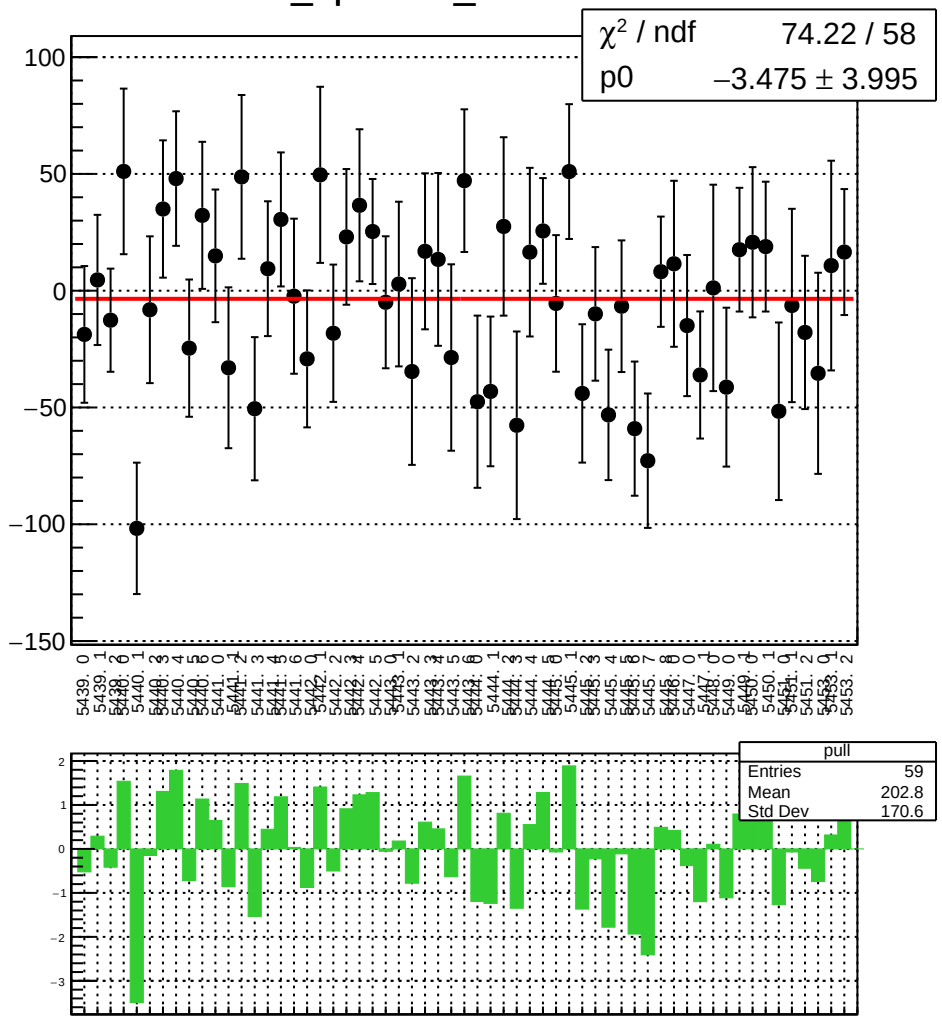

pull1D
Entries 59
Mean −0.002314
Std Dev 1.101

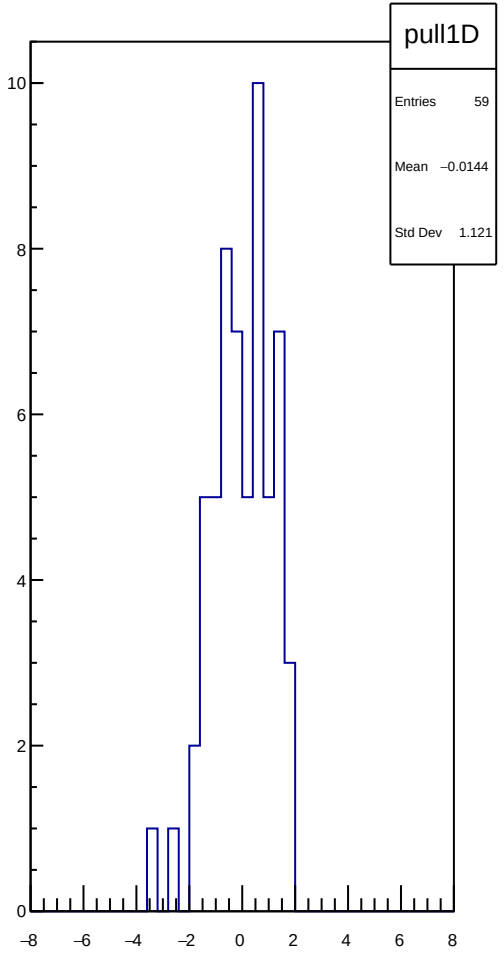

diff_bpm12Y_rms vs run
χ² / ndf 5.108e+04 / 58
p0 7555 ± 7.117
13000
12000
11000
10000
9000
8000
7000
6000
5000
4000

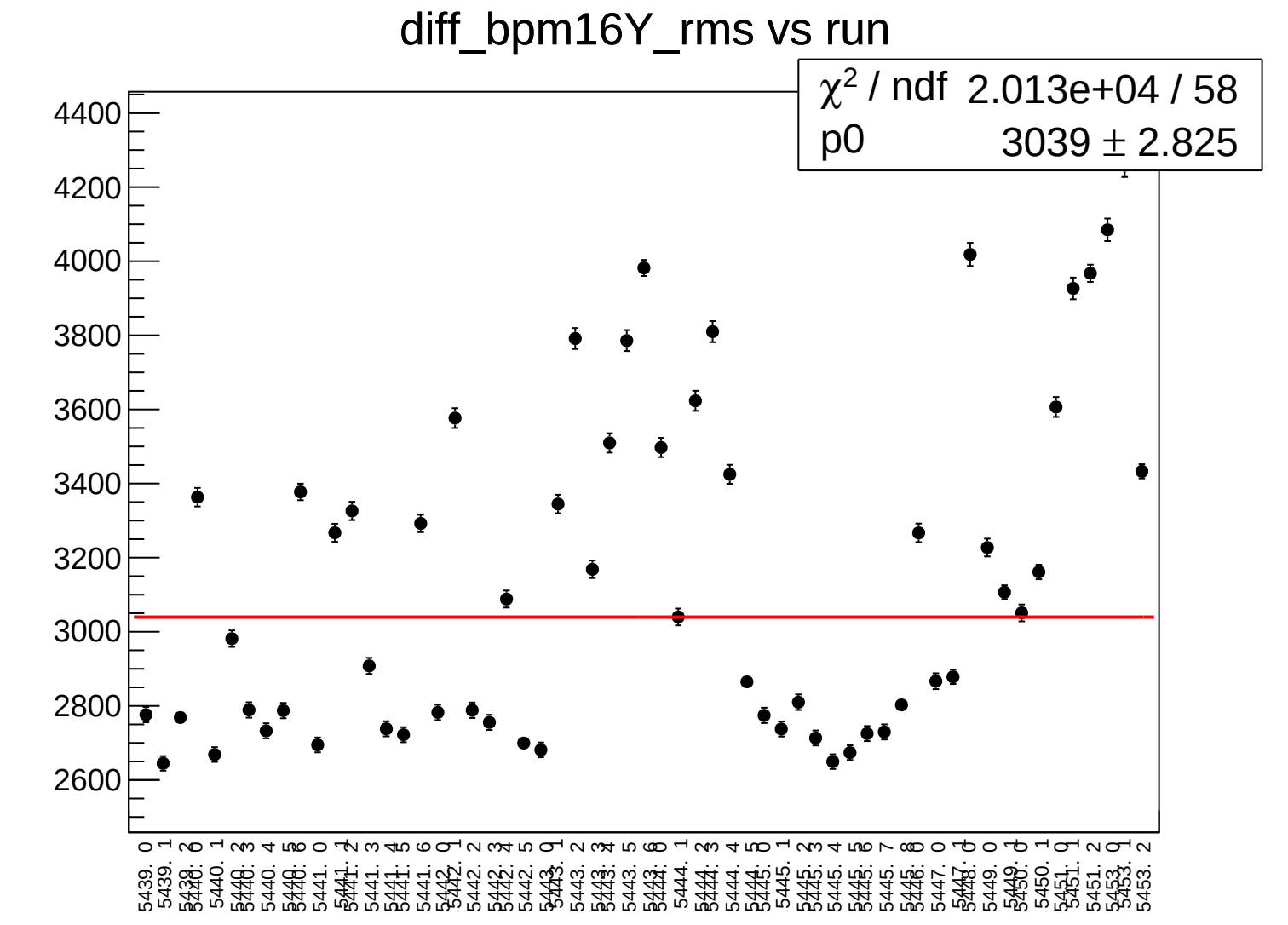

diff_bpm16X_mean vs run
$\chi^2$ / ndf 53.15 / 58
p0 35.86 ± 15.27
pull
Entries 59
Mean −46.83
Std Dev 94.32

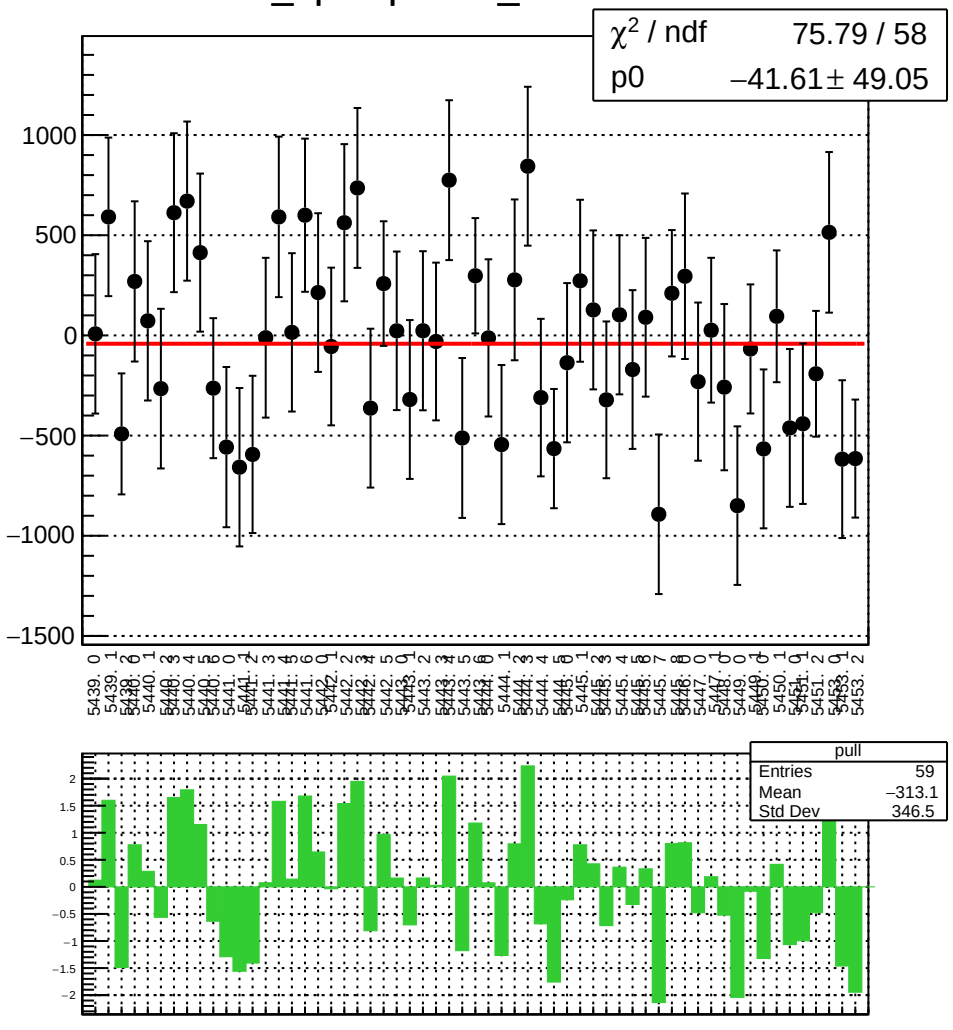

pull1D
Entries 59
Mean 0.01377
Std Dev 0.949

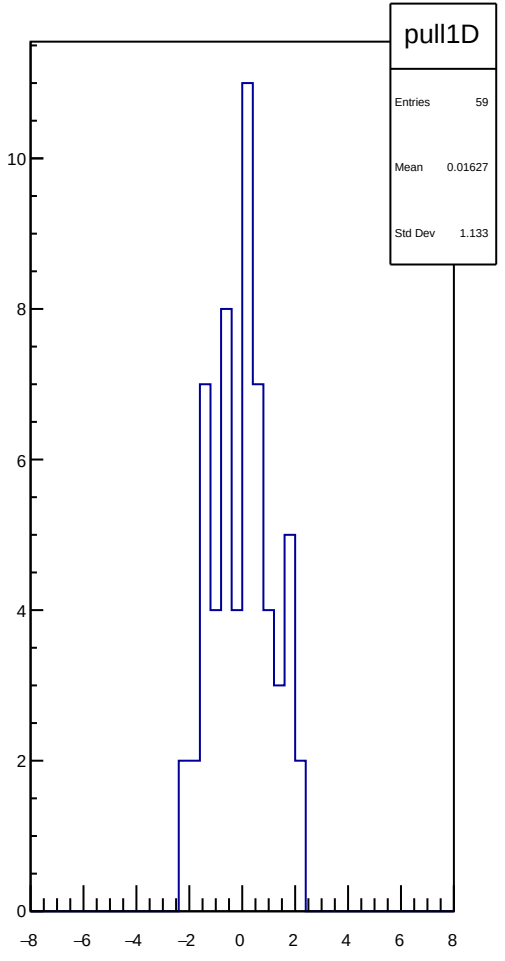

diff_bpm16X_rms vs run
χ² / ndf 2983 / 58
p0 1.171e+04 ± 10.8
14000
13500
13000
12500
12000
11500
11000
10500

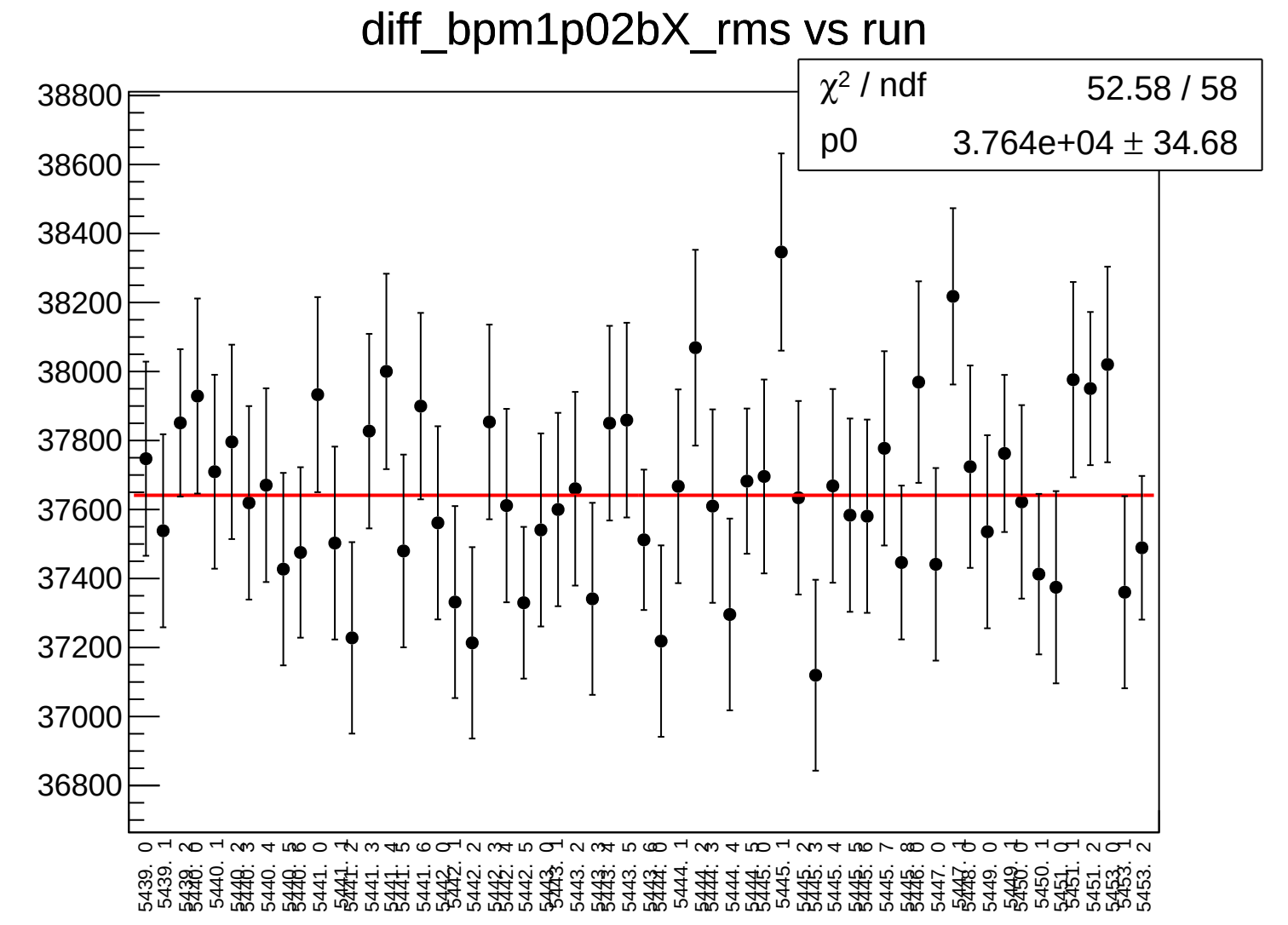

diff_bpm16Y_mean vs run
χ² / ndf 74.22 / 58
p0 −3.475 ± 3.995
pull
Entries 59
Mean 202.8
Std Dev 170.6

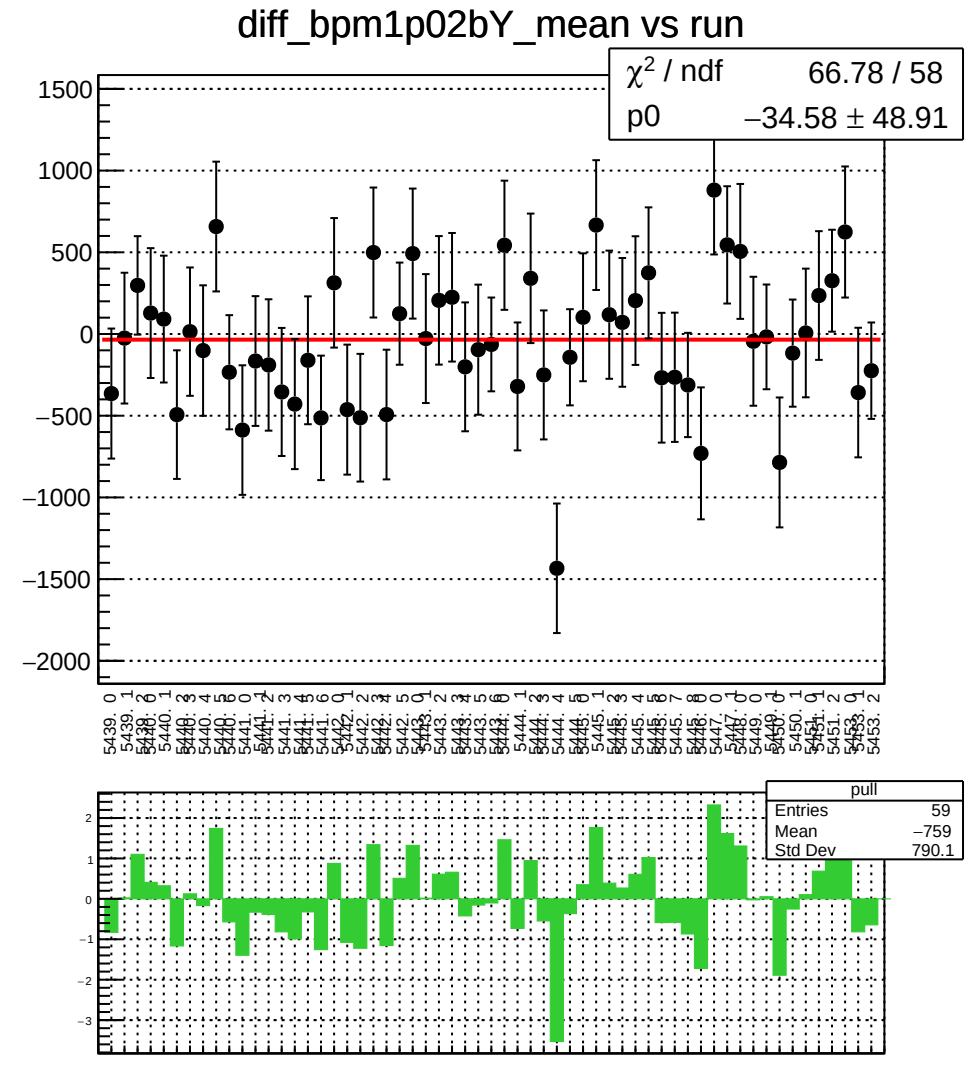

pull1D
Entries 59
Mean −0.0144
Std Dev 1.121

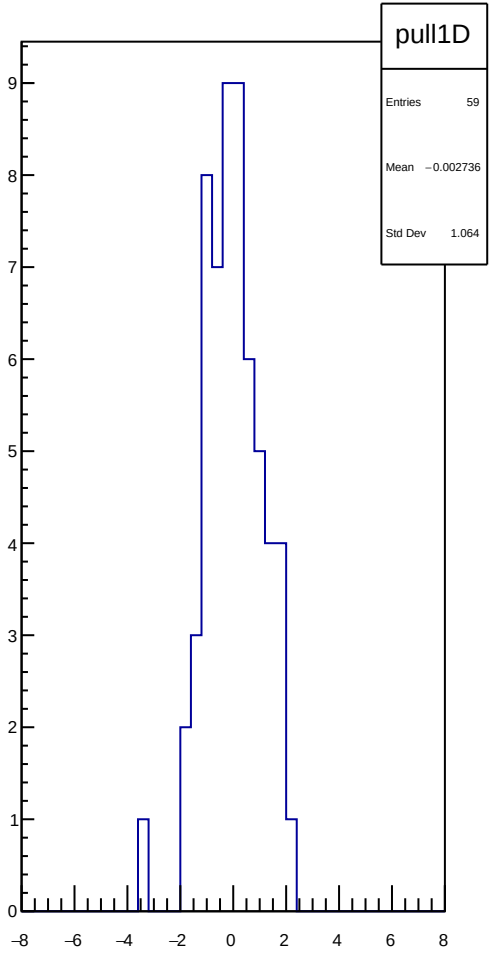

diff_bpm16Y_rms vs run
χ² / ndf 2.013e+04 / 58
p0 3039 ± 2.825
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
5439. 0
5439. 1
5439. 2
5439. 6
5440. 1
5440. 2
5440. 3
5440. 4
5440. 5
5440. 6
5441. 0
5441. 1
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5442. 0
5442. 1
5442. 2
5442. 3
5442. 4
5442. 5
5443. 0
5443. 1
5443. 2
5443. 3
5443. 4
5443. 5
5443. 6
5444. 1
5444. 2
5444. 3
5444. 4
5444. 5
5445. 0
5445. 1
5445. 2
5445. 3
5445. 4
5445. 5
5445. 6
5445. 7
5445. 8
5446. 0
5447. 0
5447. 1
5448. 0
5449. 0
5449. 1
5450. 0
5450. 1
5451. 0
5451. 1
5451. 2
5453. 0
5453. 1
5453. 2

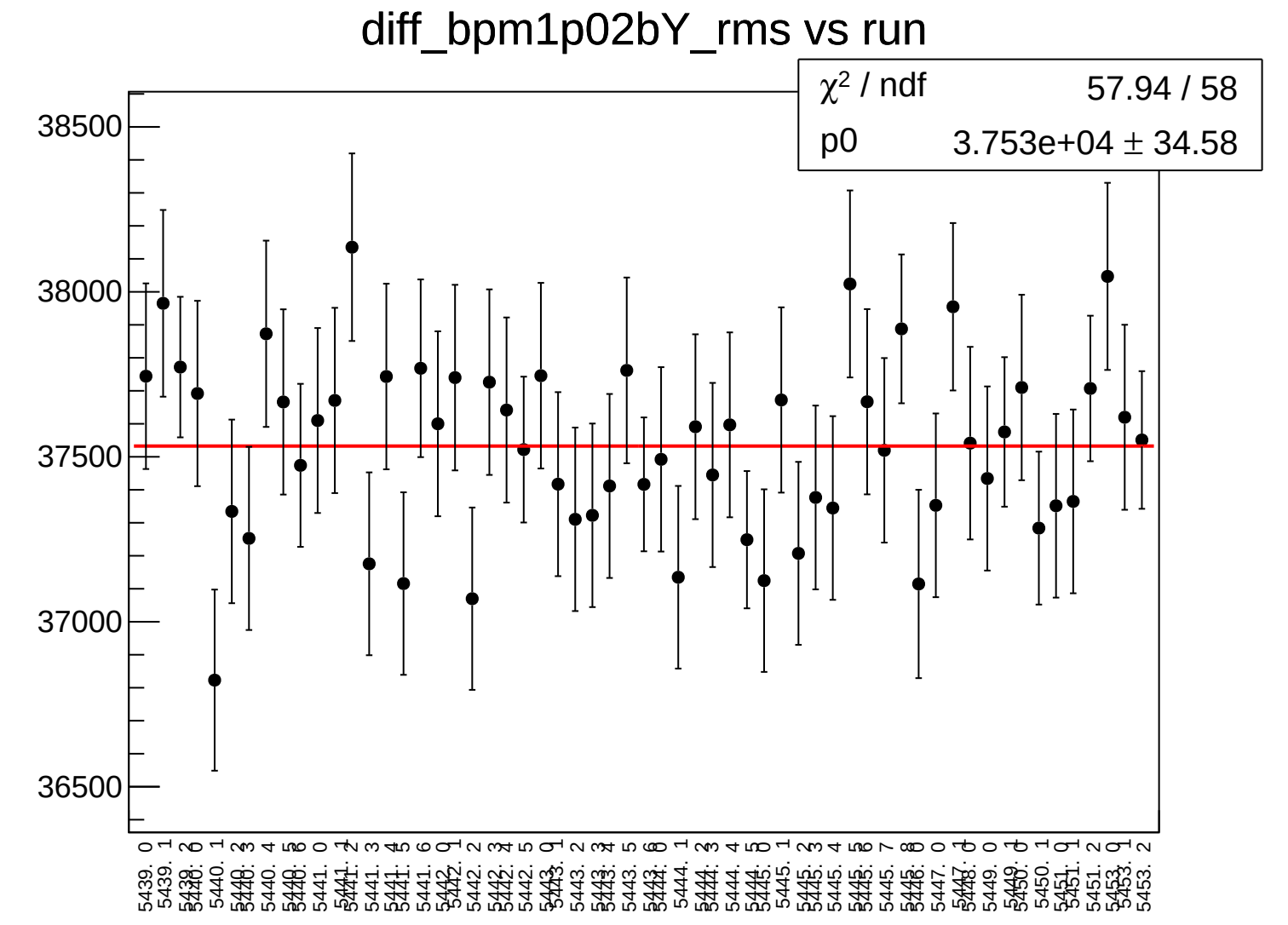

diff_bpm1p02bX_mean vs run
χ² / ndf 75.79 / 58
p0 −41.61 ± 49.05
pull
Entries 59
Mean −313.1
Std Dev 346.5

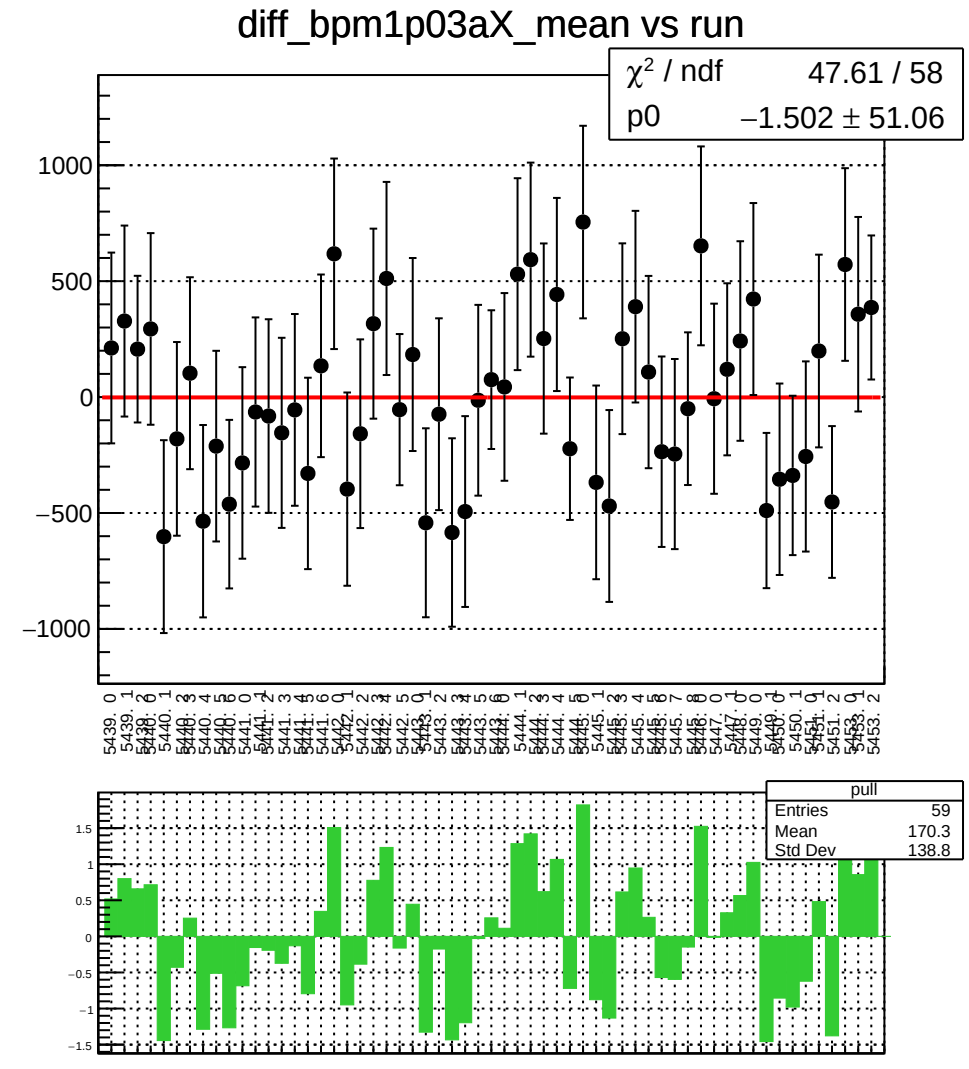

pull1D
Entries 59
Mean 0.01627
Std Dev 1.133

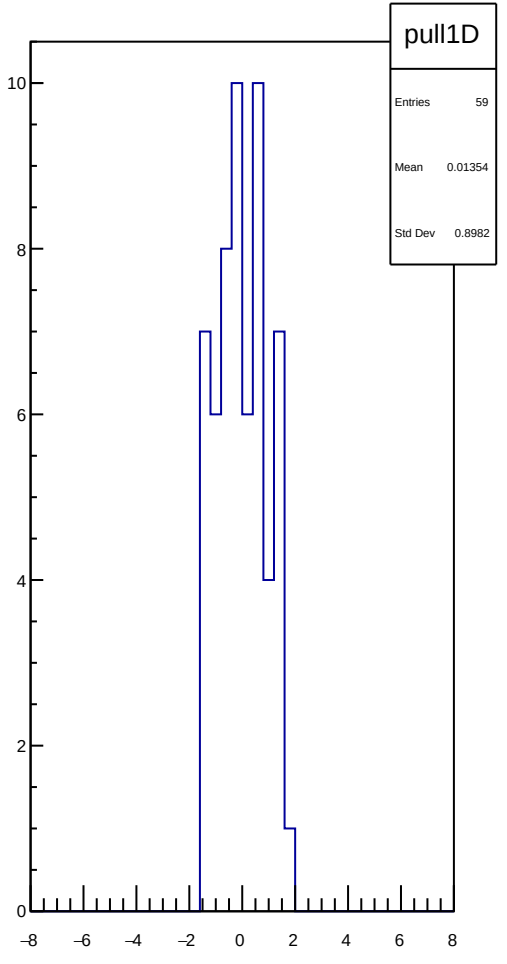

diff_bpm1p02bX_rms vs run
χ² / ndf 52.58 / 58
p0 3.764e+04 ± 34.68
38800
38600
38400
38200
38000
37800
37600
37400
37200
37000
36800

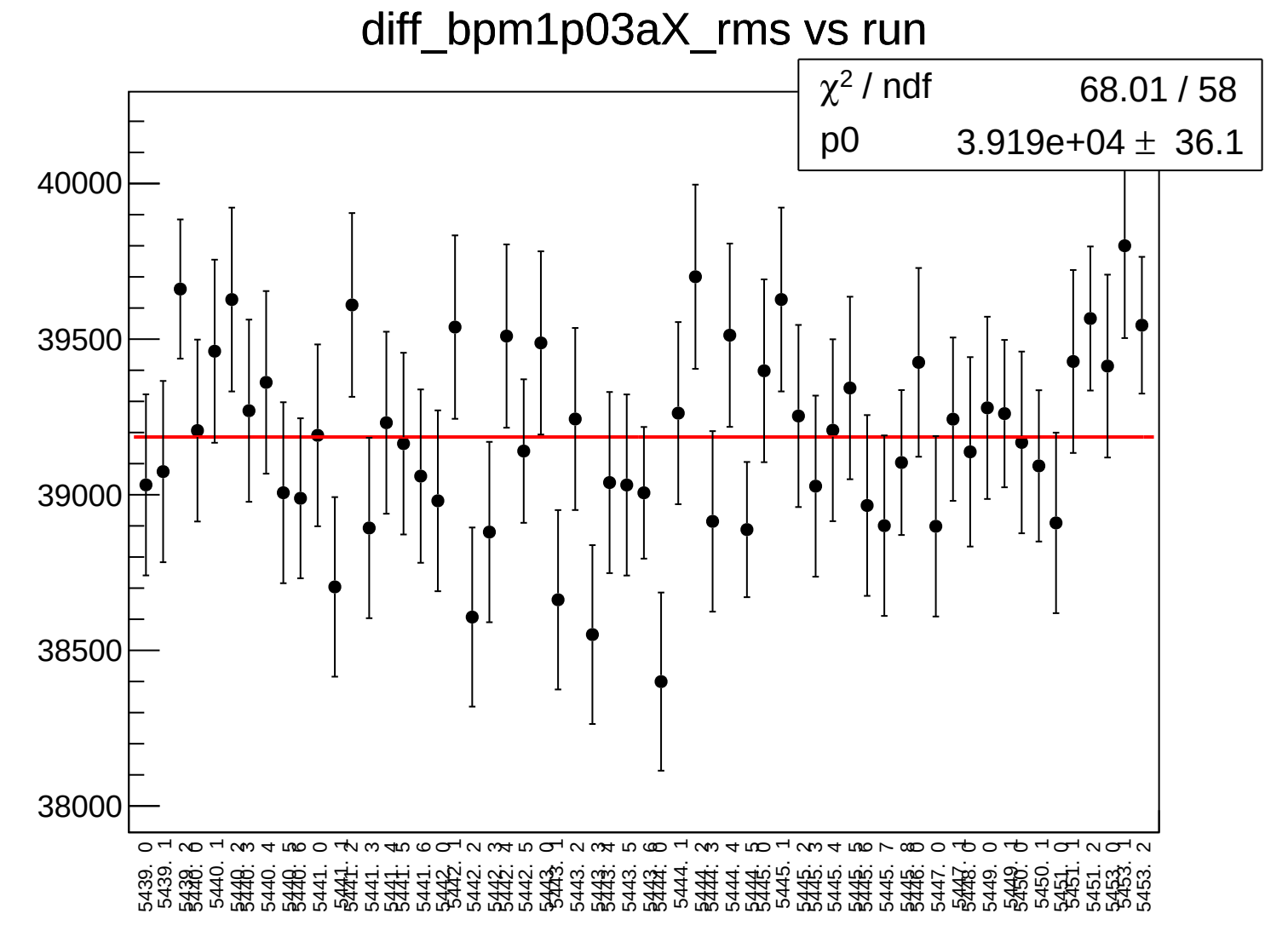

diff_bpm1p02bY_mean vs run
$\chi^2$ / ndf 66.78 / 58
p0 −34.58 ± 48.91
pull
Entries 59
Mean −759
Std Dev 790.1

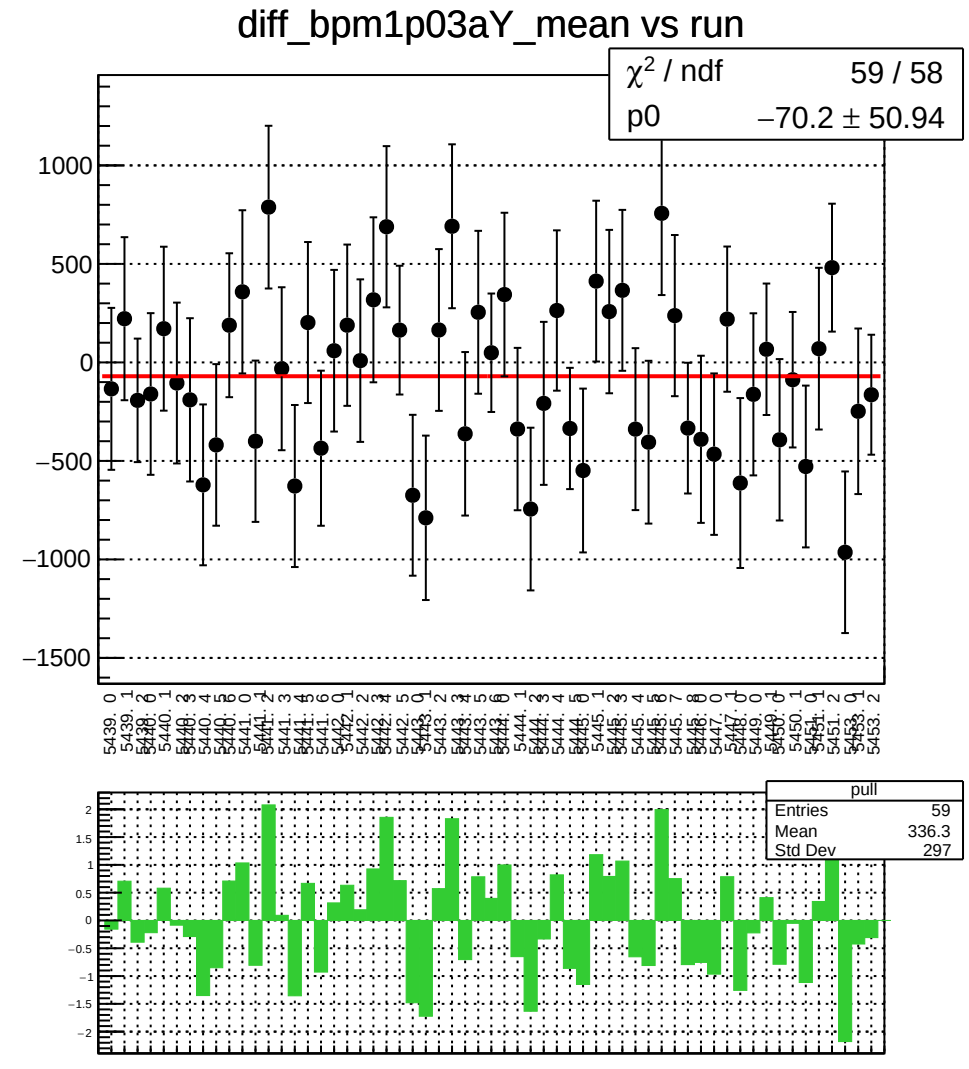

pull1D
Entries 59
Mean −0.002736
Std Dev 1.064

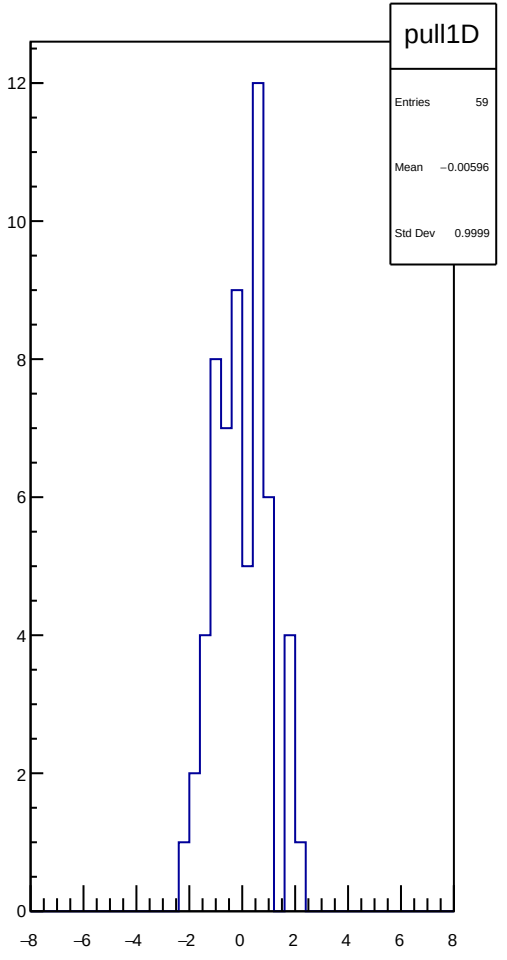

diff_bpm1p02bY_rms vs run
χ² / ndf 57.94 / 58
p0 3.753e+04 ± 34.58
38500
38000
37500
37000
36500

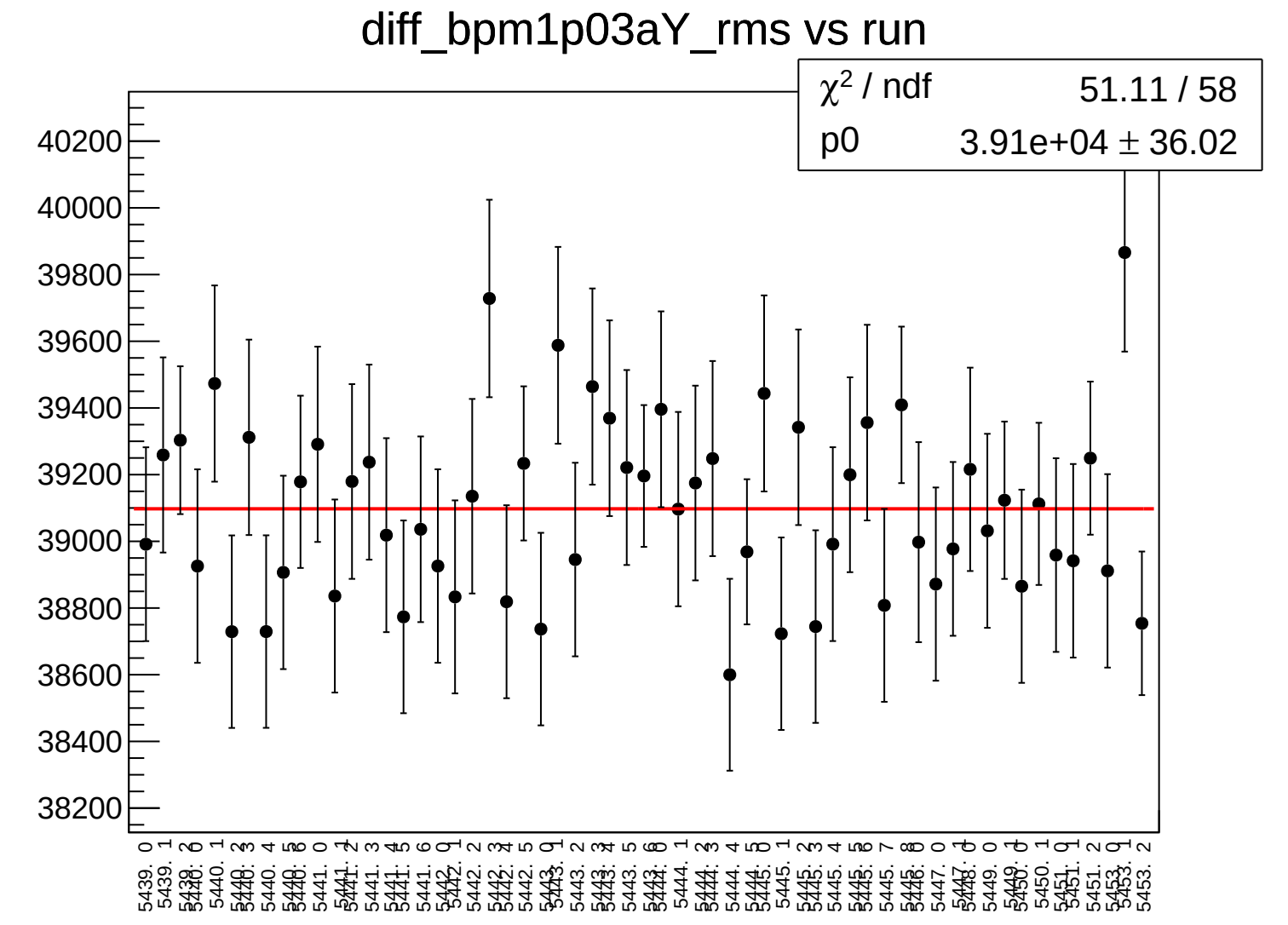

diff_bpm1p03aX_mean vs run
χ² / ndf 47.61 / 58
p0 −1.502 ± 51.06
1000
500
0
−500
−1000
pull
Entries 59
Mean 170.3
Std Dev 138.8
1.5
1
0.5
0
−0.5
−1
−1.5

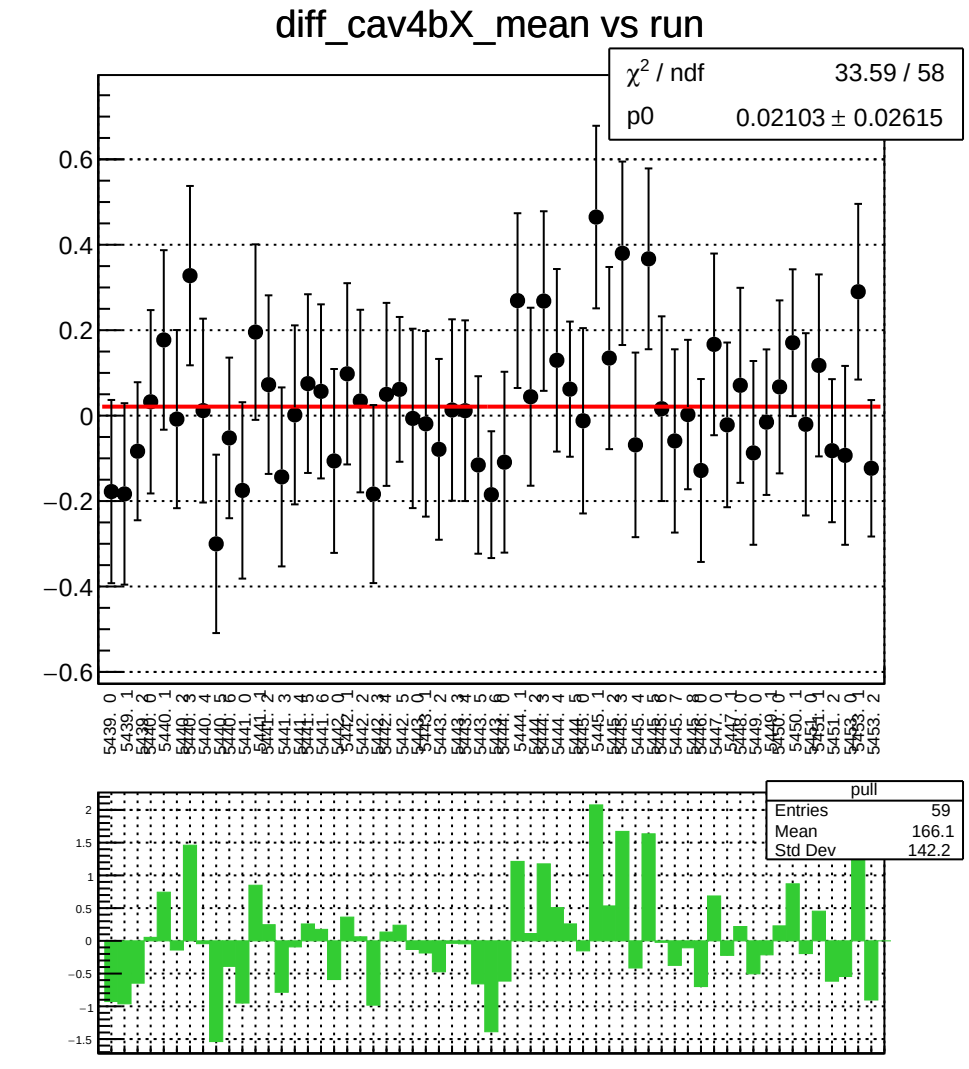

pull1D
Entries 59
Mean 0.01354
Std Dev 0.8982
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

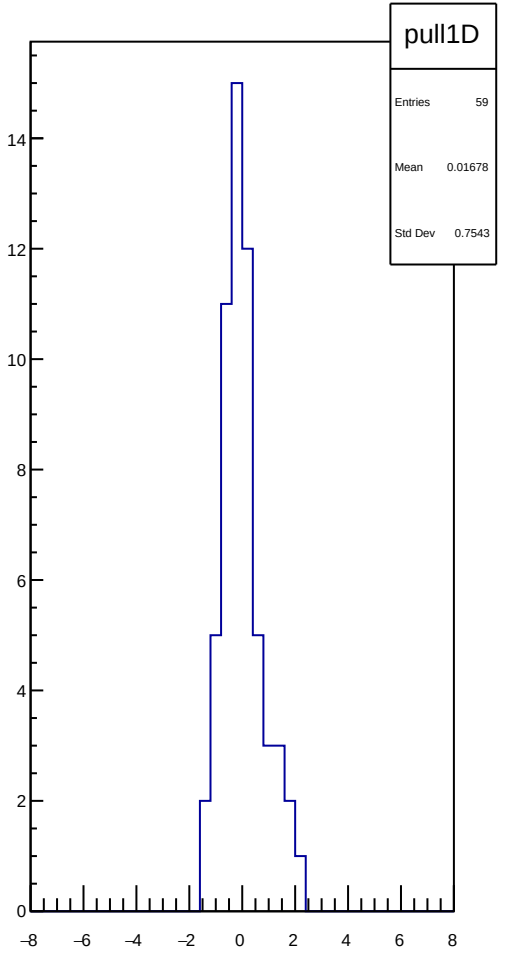

diff_bpm1p03aX_rms vs run
χ² / ndf 68.01 / 58
p0 3.919e+04 ± 36.1
40000
39500
39000
38500
38000

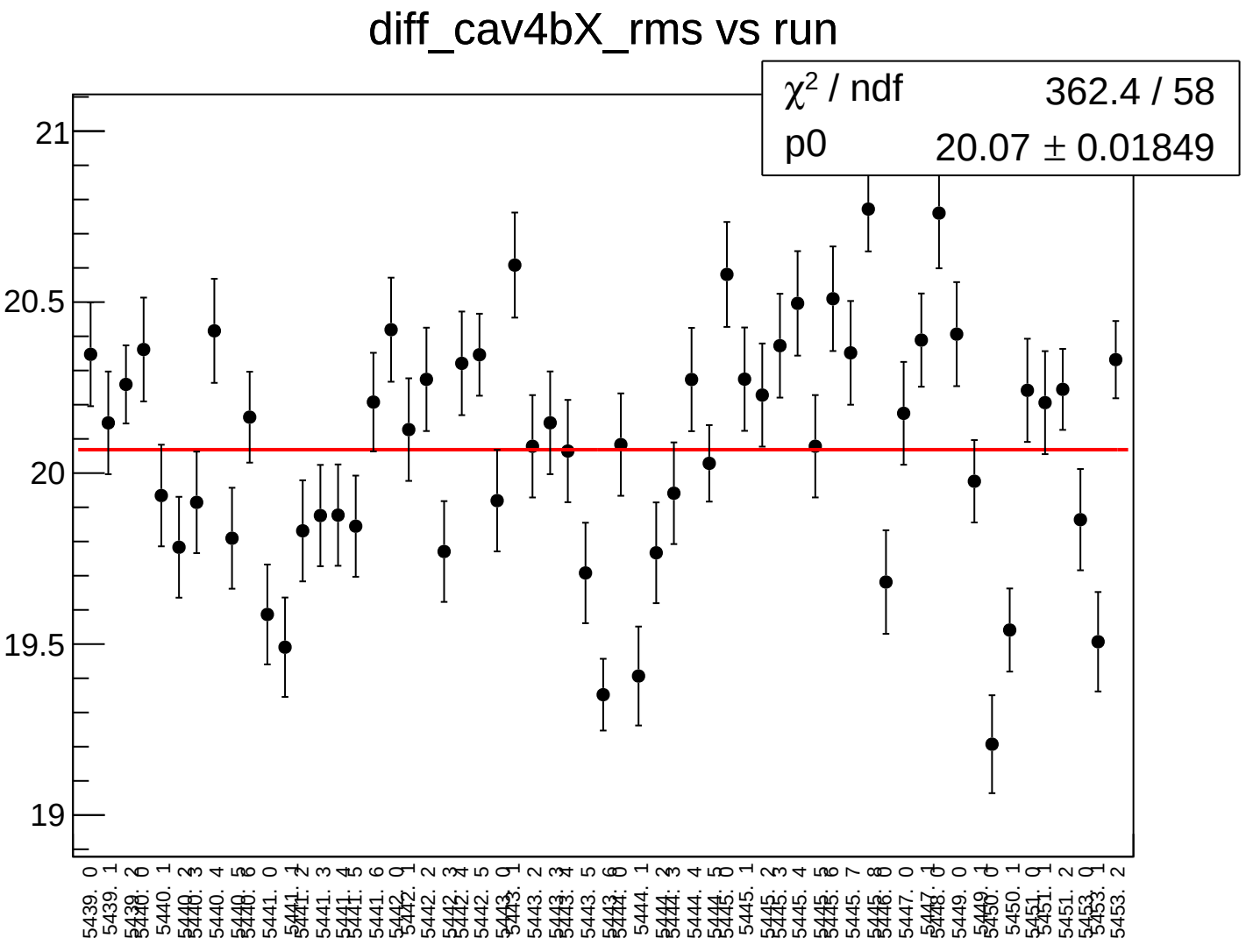

diff_bpm1p03aY_mean vs run
χ² / ndf 59 / 58
p0 −70.2 ± 50.94
pull
Entries 59
Mean 336.3
Std Dev 297

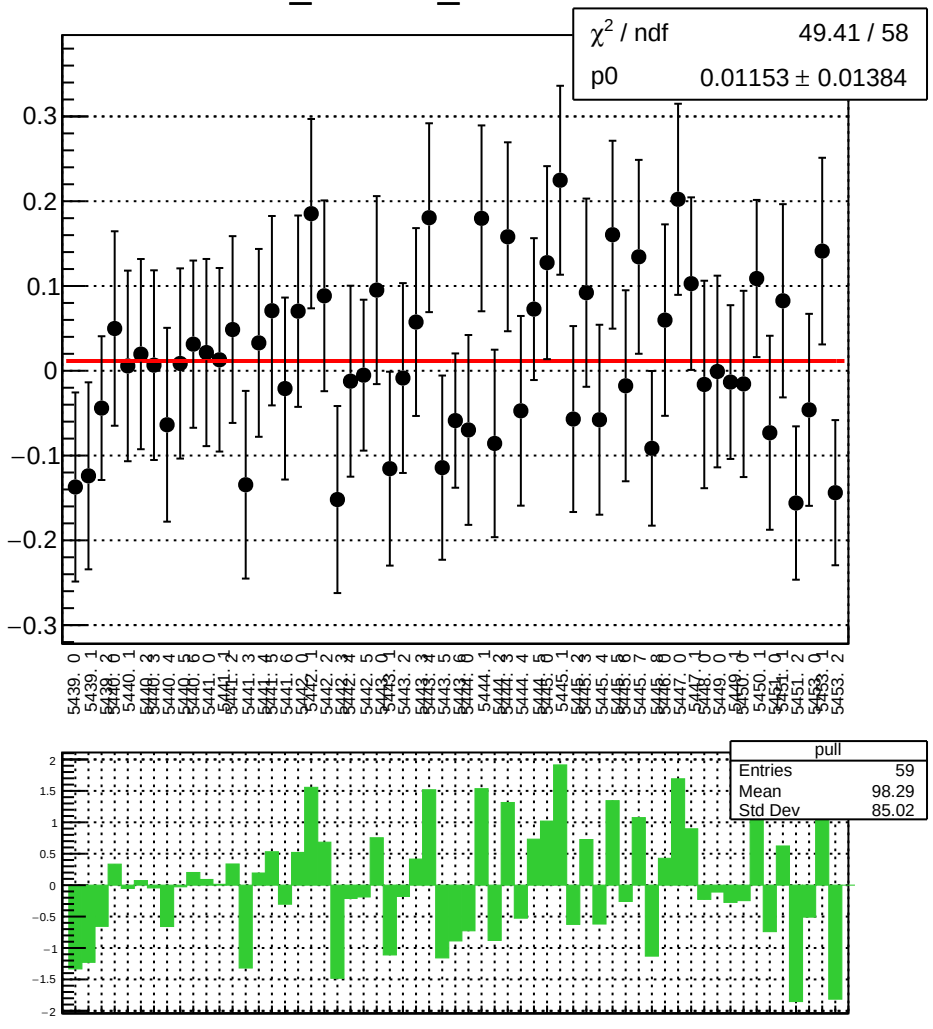

pull1D
Entries 59
Mean −0.00596
Std Dev 0.9999

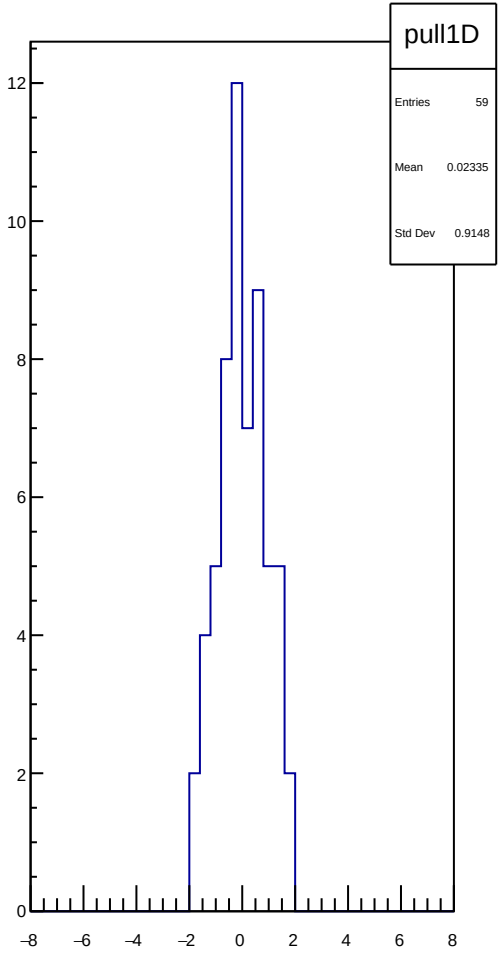

diff_bpm1p03aY_rms vs run
χ² / ndf 51.11 / 58
p0 3.91e+04 ± 36.02
40200
40000
39800
39600
39400
39200
39000
38800
38600
38400
38200

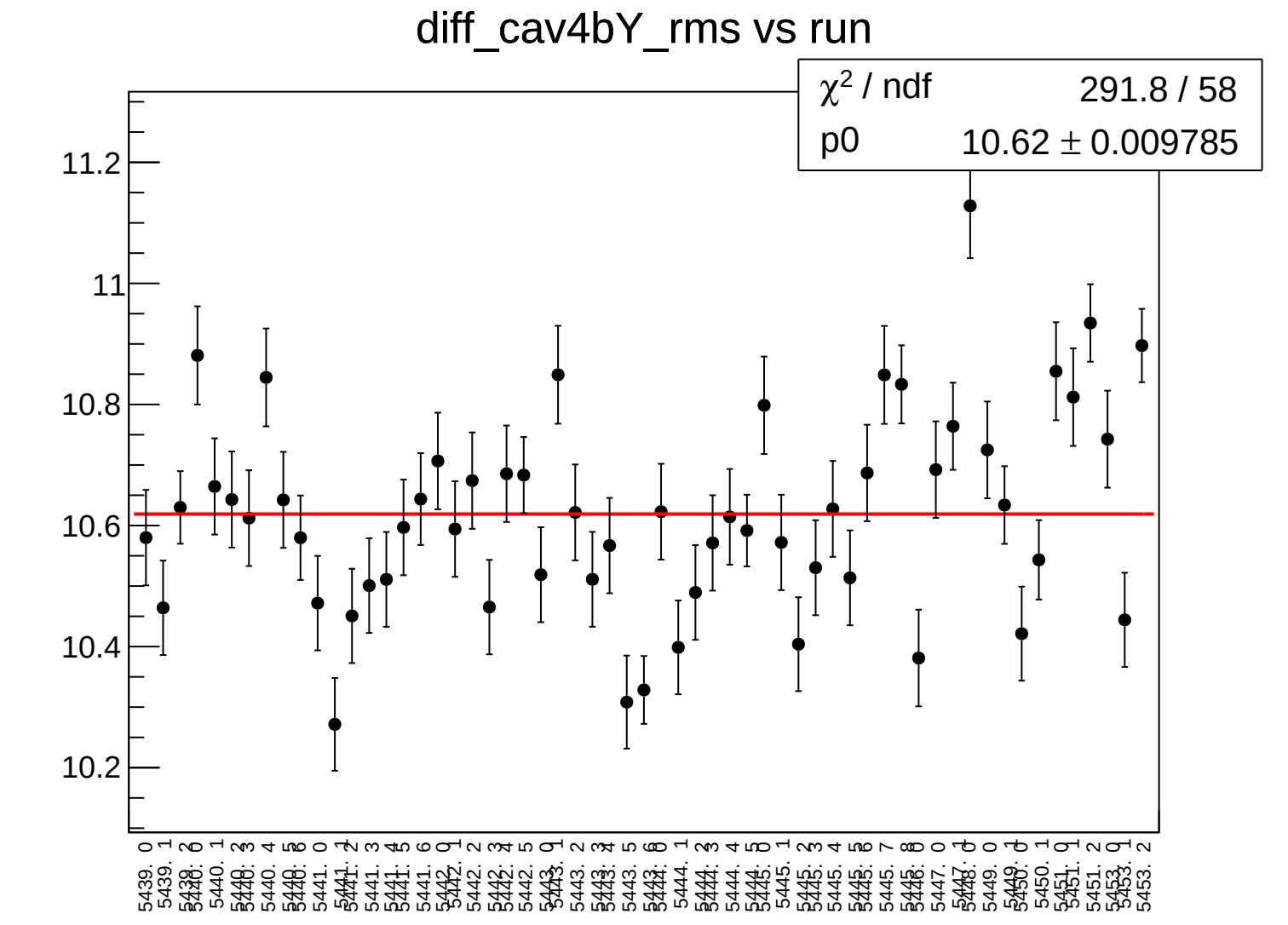

diff_cav4bX_mean vs run
χ² / ndf 33.59 / 58
p0 0.02103 ± 0.02615
pull
Entries 59
Mean 166.1
Std Dev 142.2

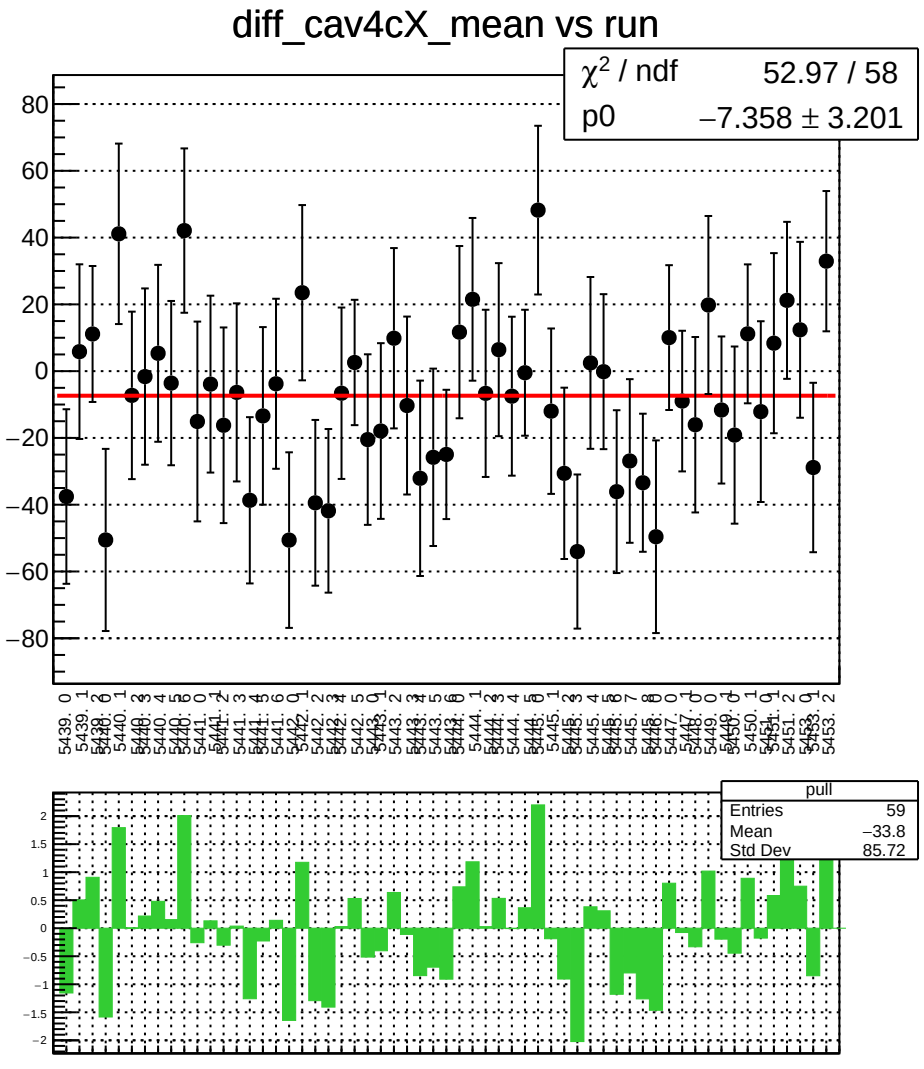

pull1D
Entries 59
Mean 0.01678
Std Dev 0.7543

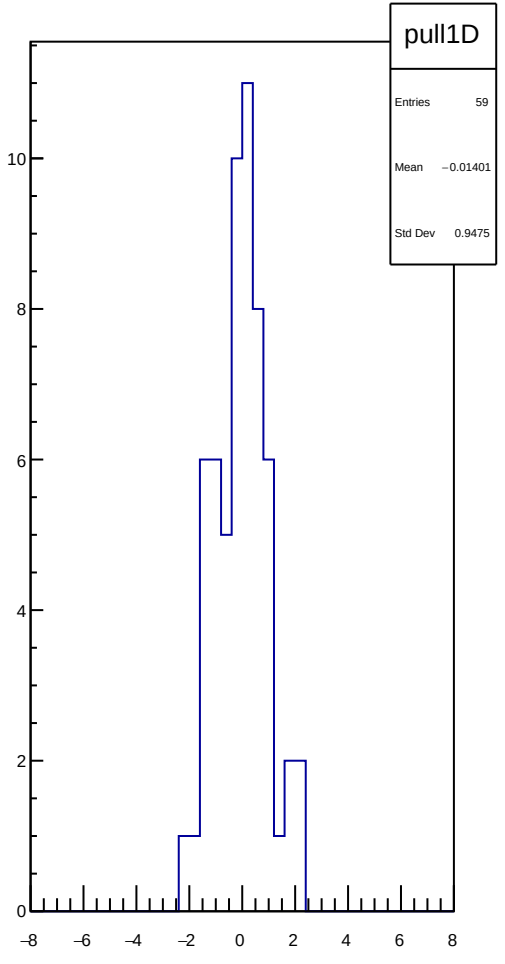

diff_cav4bX_rms vs run
χ² / ndf 362.4 / 58
p0 20.07 ± 0.01849
21
20.5
20
19.5
19

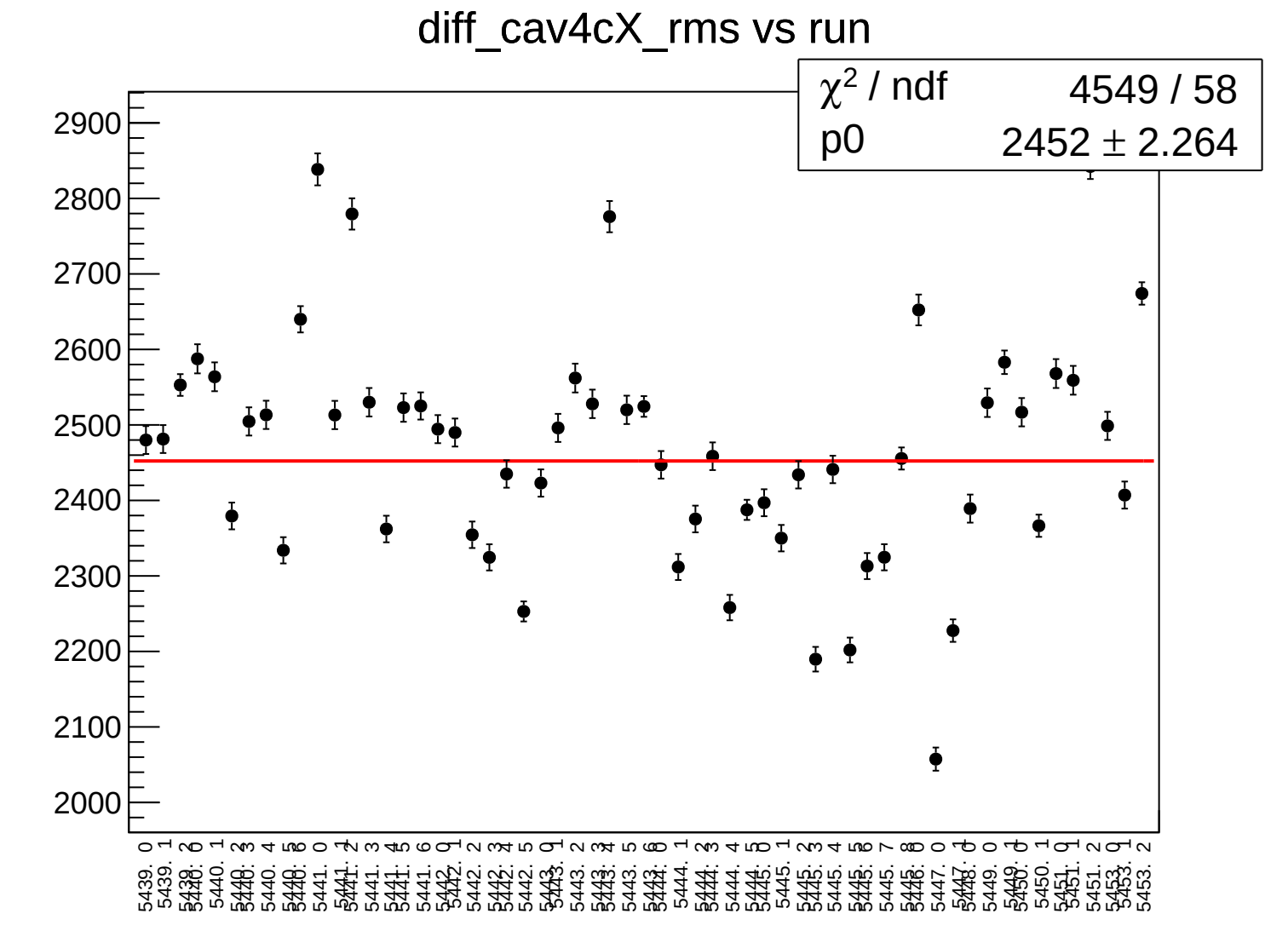

diff_cav4bY_mean vs run
χ² / ndf 49.41 / 58
p0 0.01153 ± 0.01384
pull
Entries 59
Mean 98.29
Std Dev 85.02

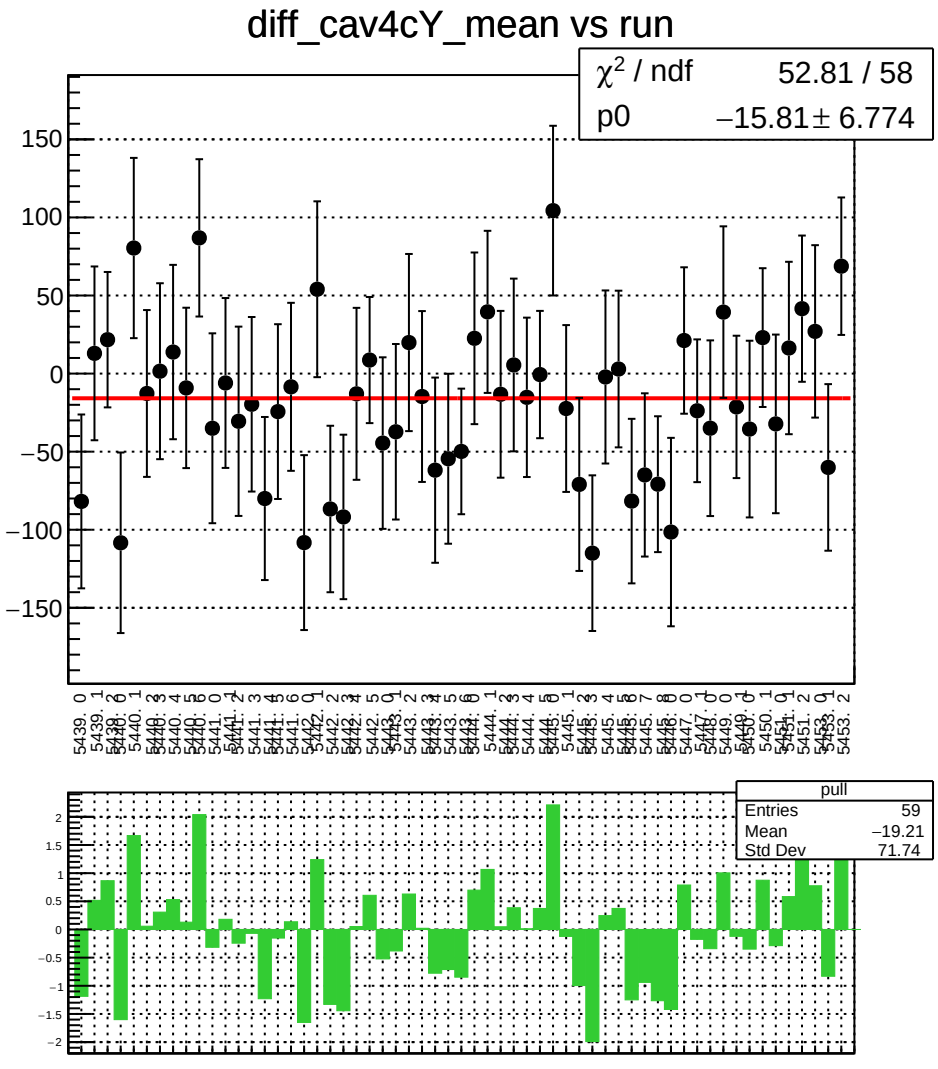

pull1D
Entries 59
Mean 0.02335
Std Dev 0.9148

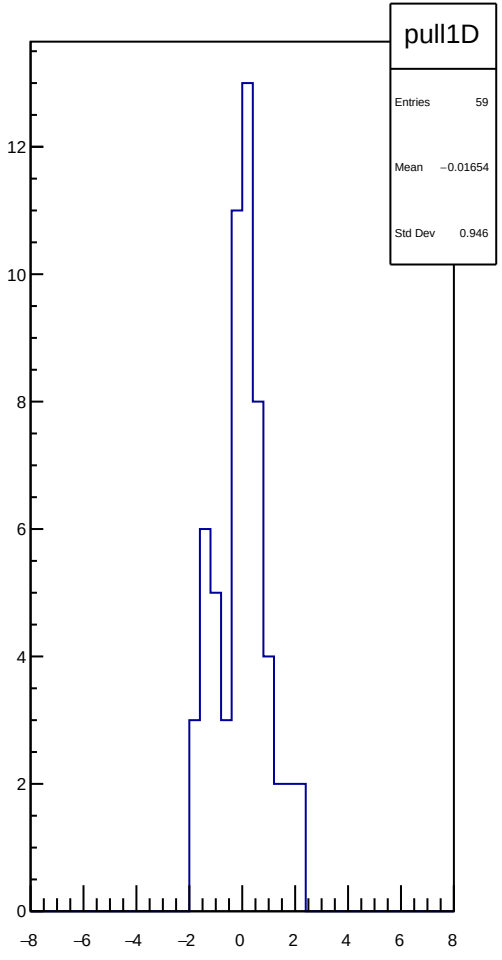

diff_cav4bY_rms vs run
$\chi^2$ / ndf 291.8 / 58
p0 10.62 ± 0.009785
11.2
11
10.8
10.6
10.4
10.2

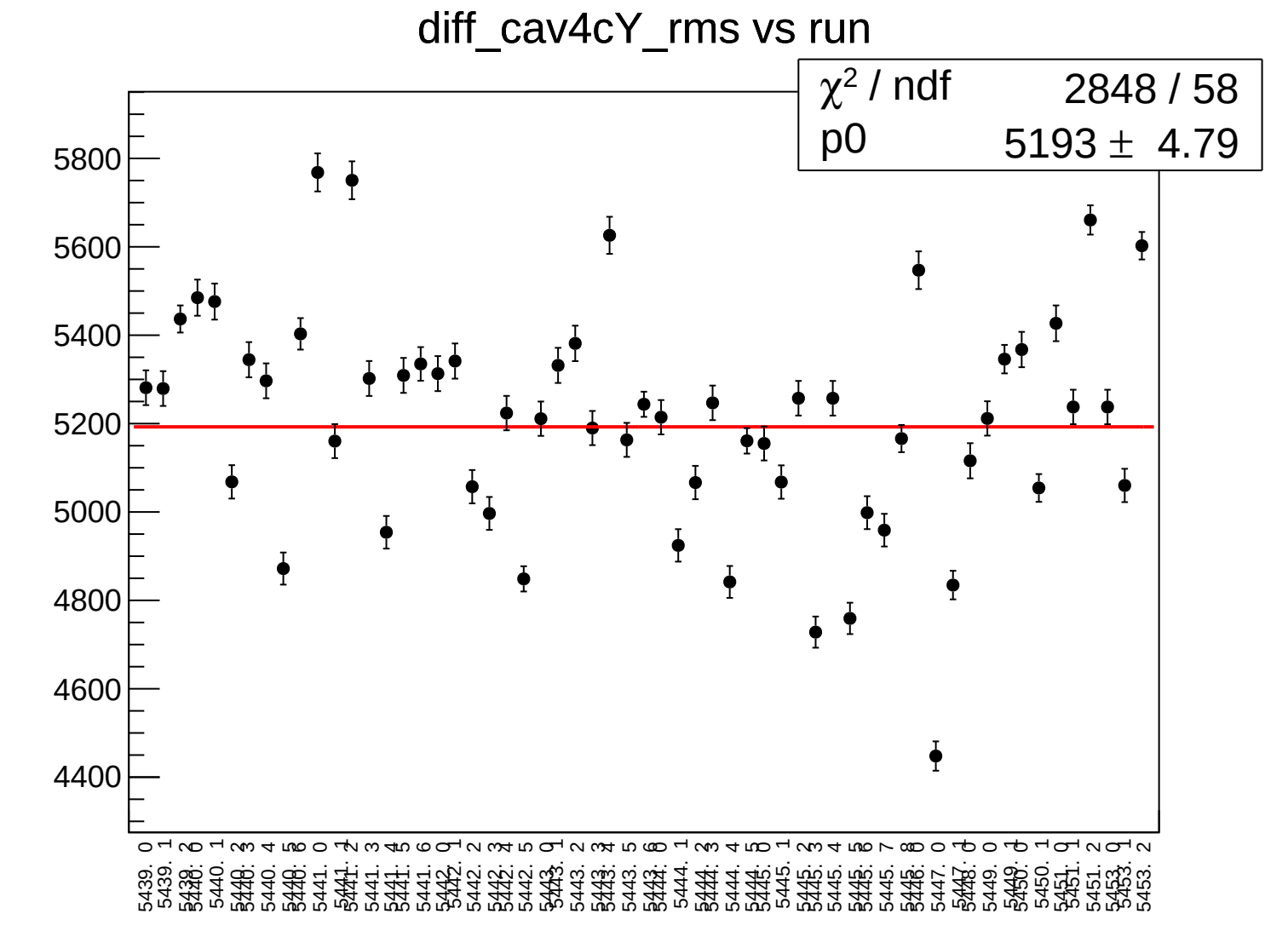

diff_cav4cX_mean vs run
χ² / ndf 52.97 / 58
p0 −7.358 ± 3.201
pull
Entries 59
Mean −33.8
Std Dev 85.72

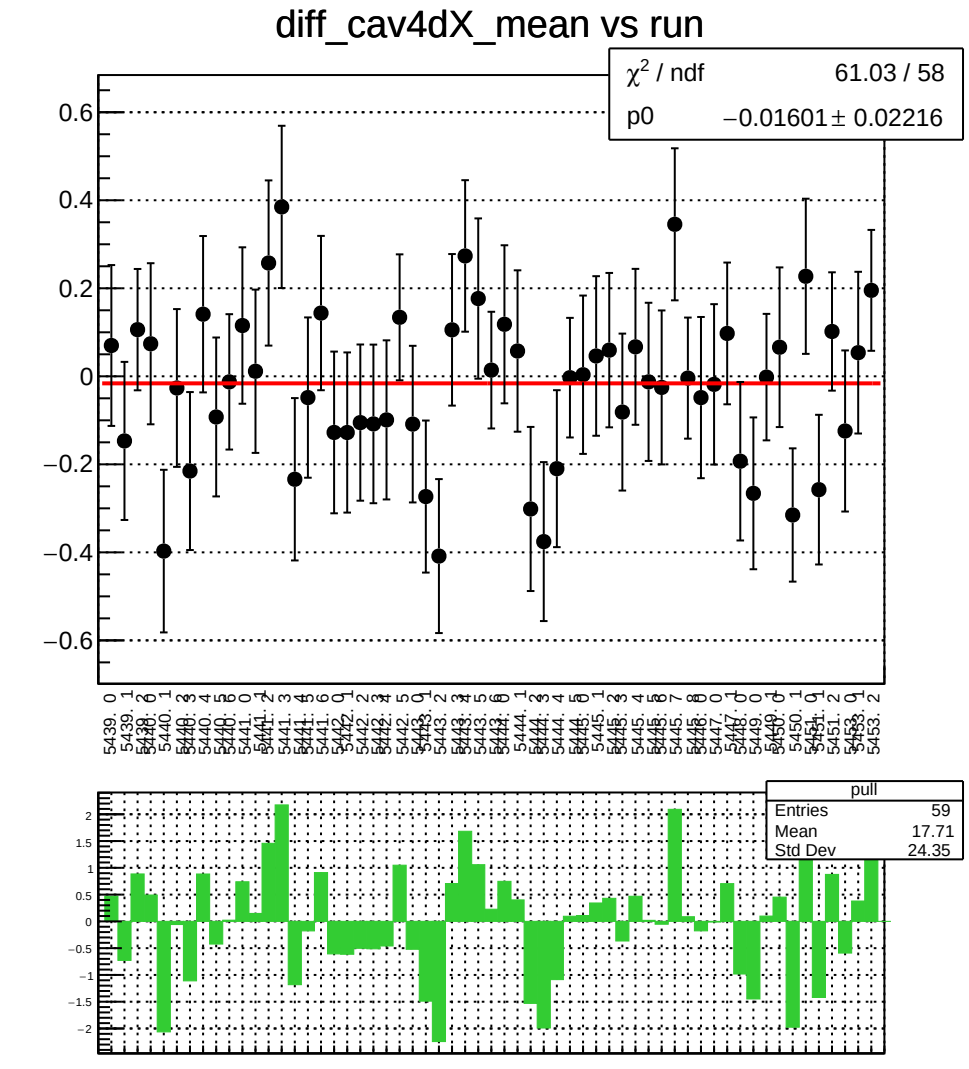

pull1D
Entries 59
Mean −0.01401
Std Dev 0.9475

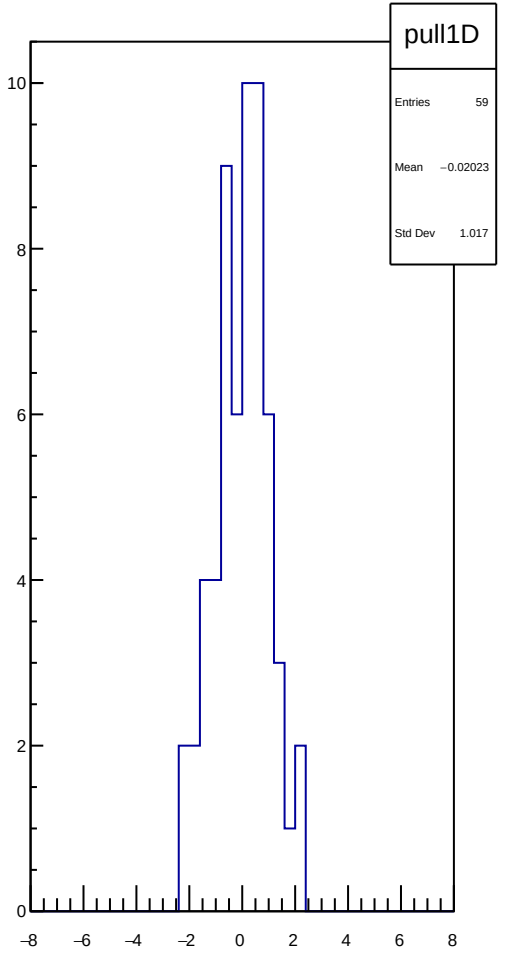

diff_cav4cX_rms vs run
χ² / ndf 4549 / 58
p0 2452 ± 2.264
2900
2800
2700
2600
2500
2400
2300
2200
2100
2000

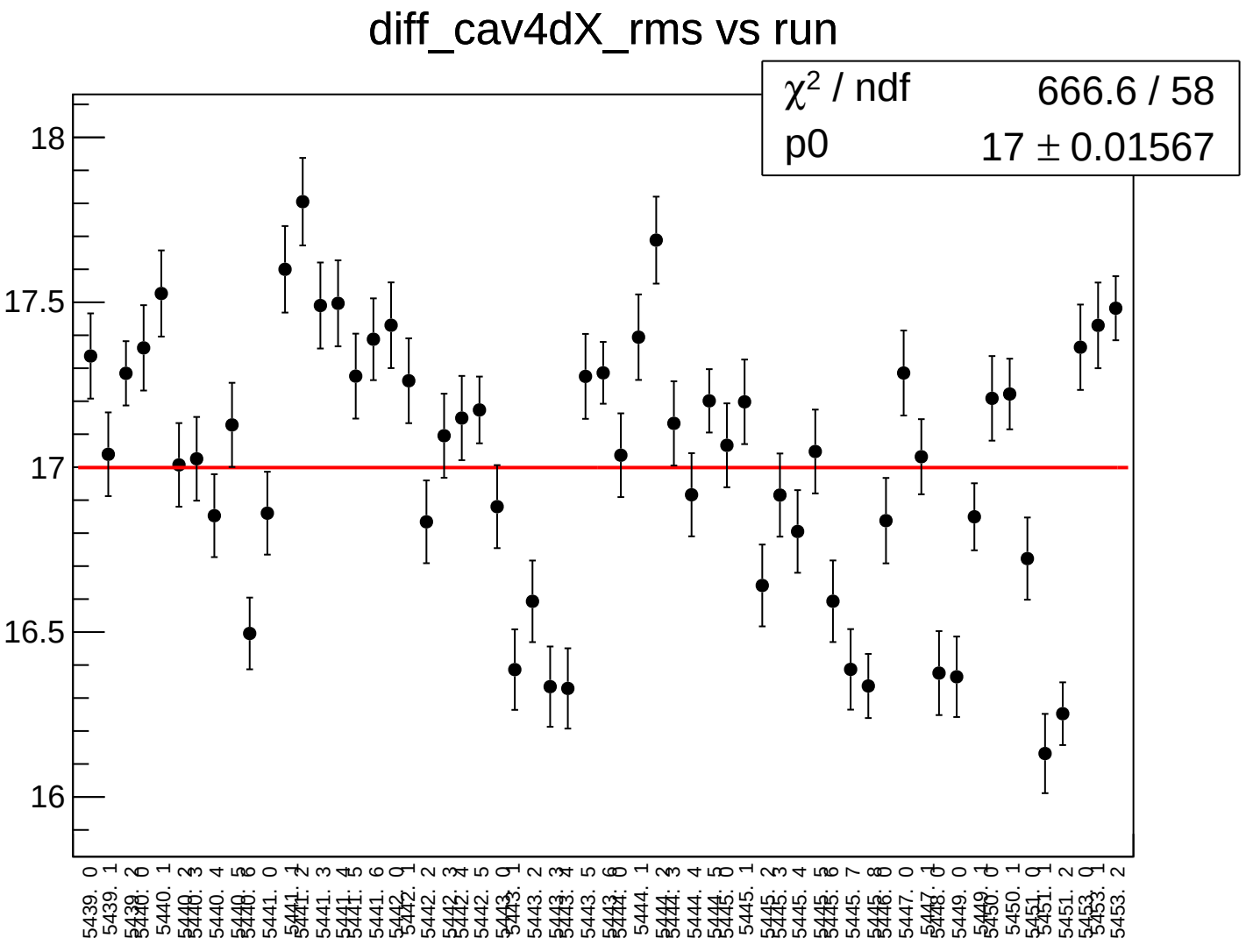

diff_cav4cY_mean vs run
χ² / ndf 52.81 / 58
p0 −15.81 ± 6.774
pull
Entries 59
Mean −19.21
Std Dev 71.74

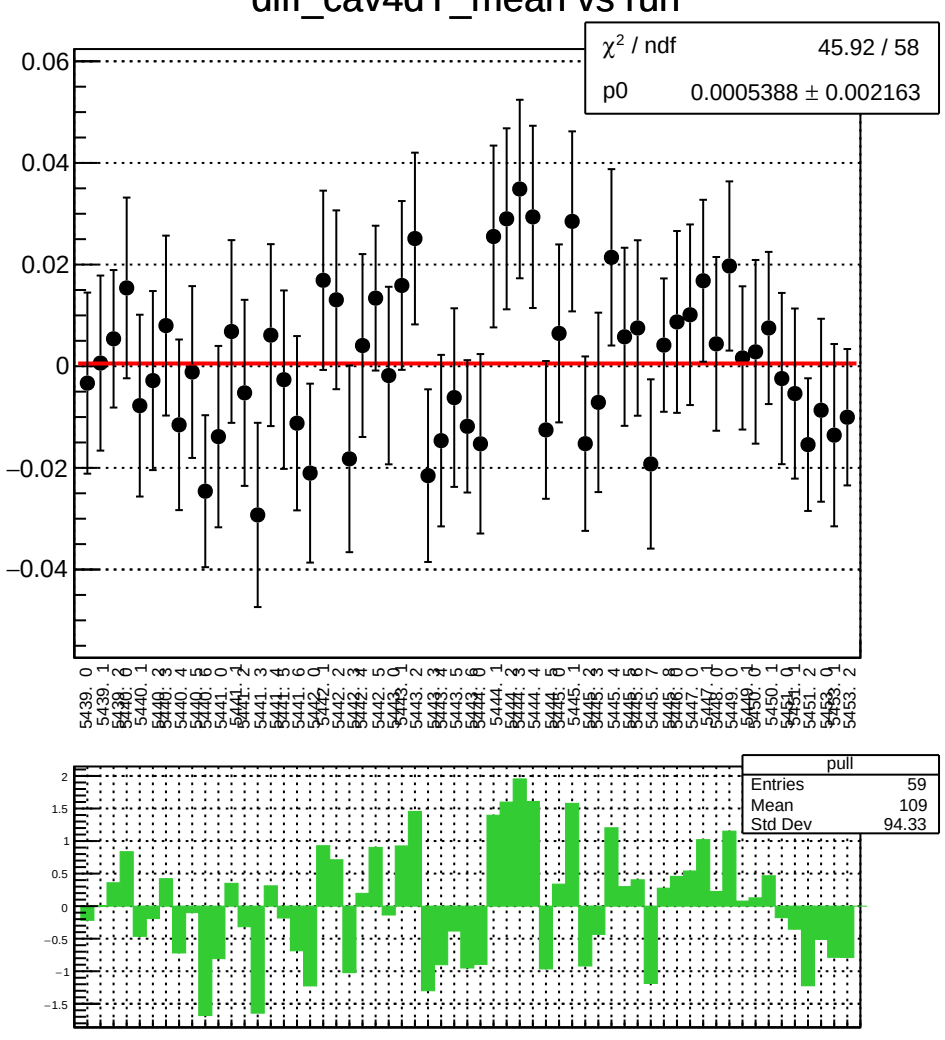

pull1D
Entries 59
Mean −0.01654
Std Dev 0.946

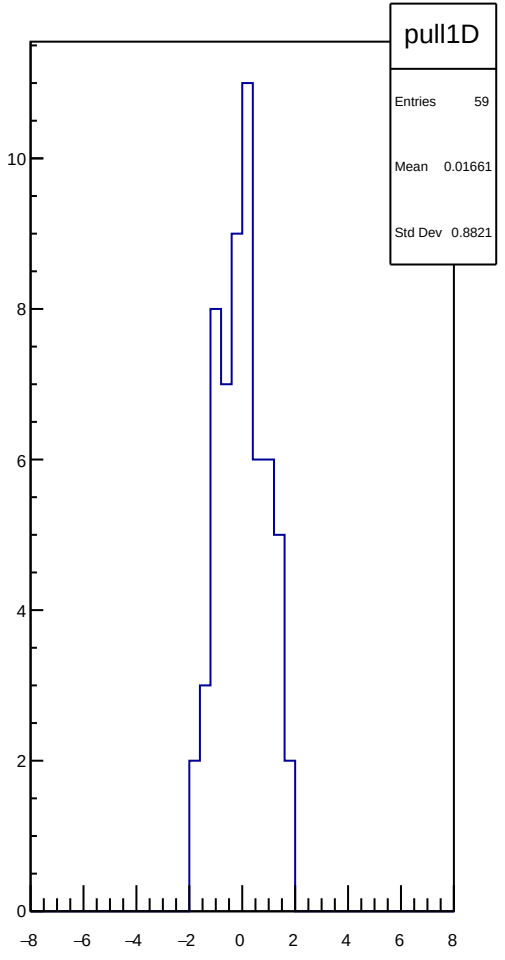

diff_cav4cY_rms vs run
χ² / ndf 2848 / 58
p0 5193 ± 4.79
5800
5600
5400
5200
5000
4800
4600
4400

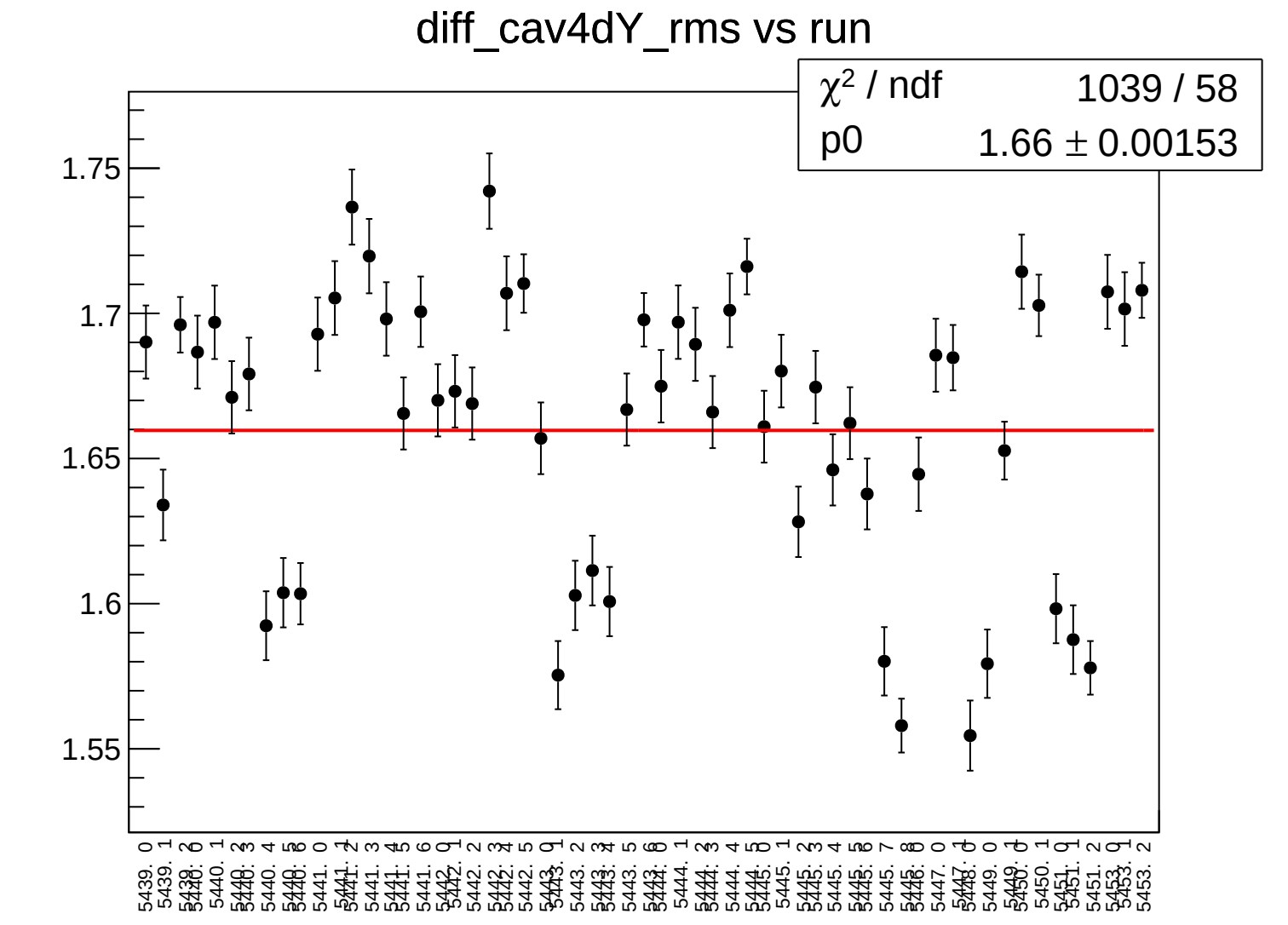

diff_cav4dX_mean vs run
χ² / ndf 61.03 / 58
p0 −0.01601 ± 0.02216
pull
Entries 59
Mean 17.71
Std Dev 24.35

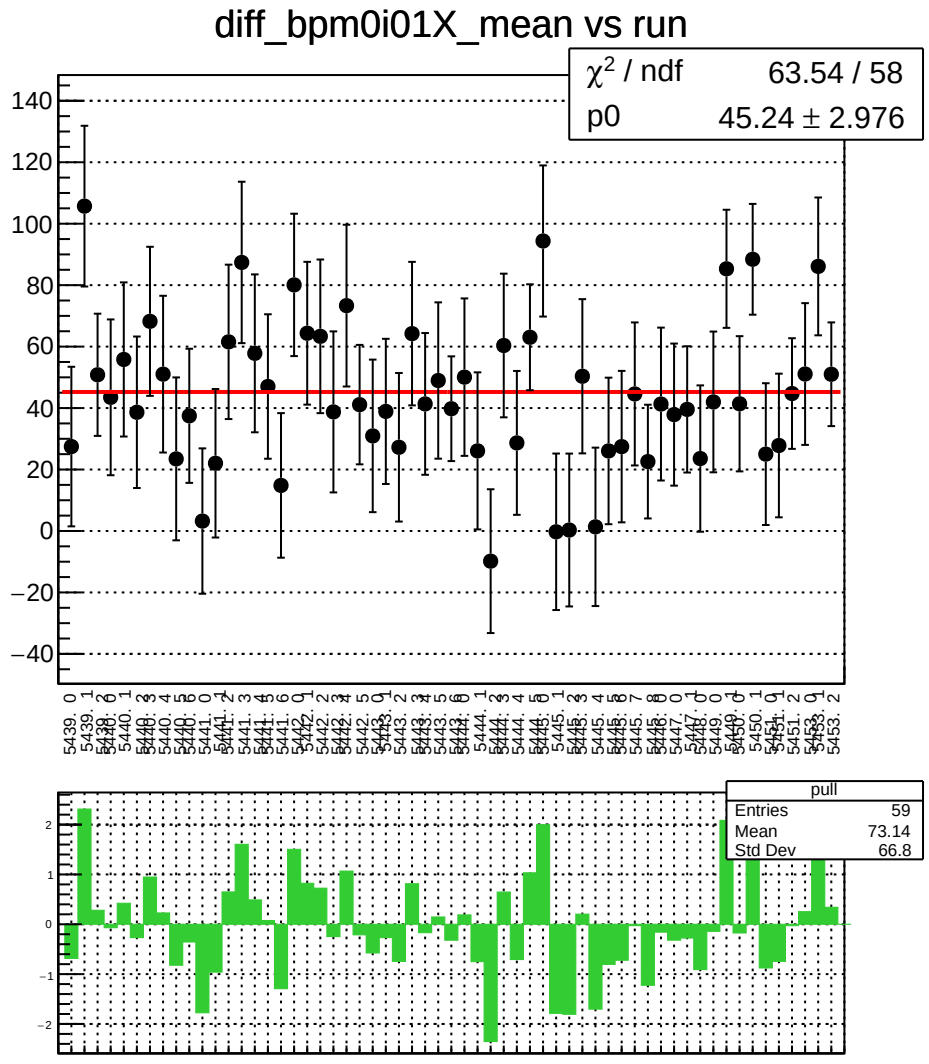

pull1D
Entries 59
Mean −0.02023
Std Dev 1.017

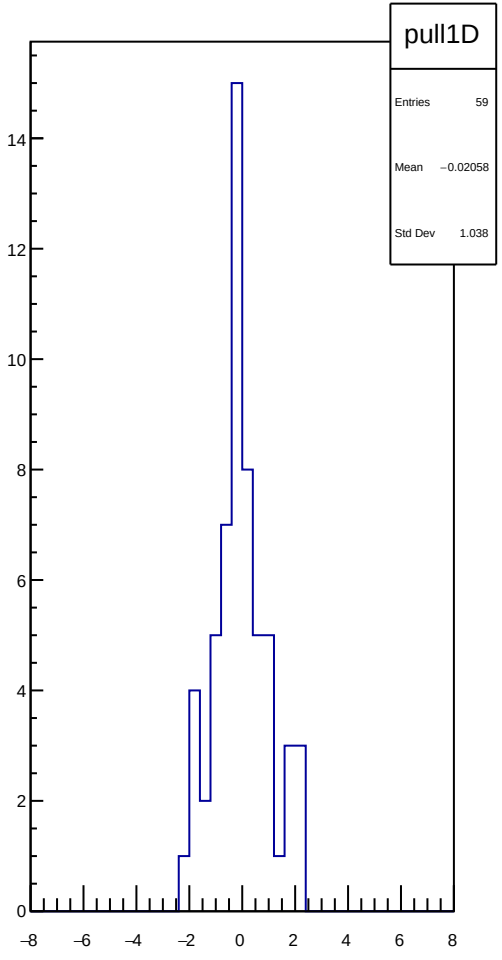

diff_cav4dX_rms vs run
χ² / ndf 666.6 / 58
p0 17 ± 0.01567
18
17.5
17
16.5
16

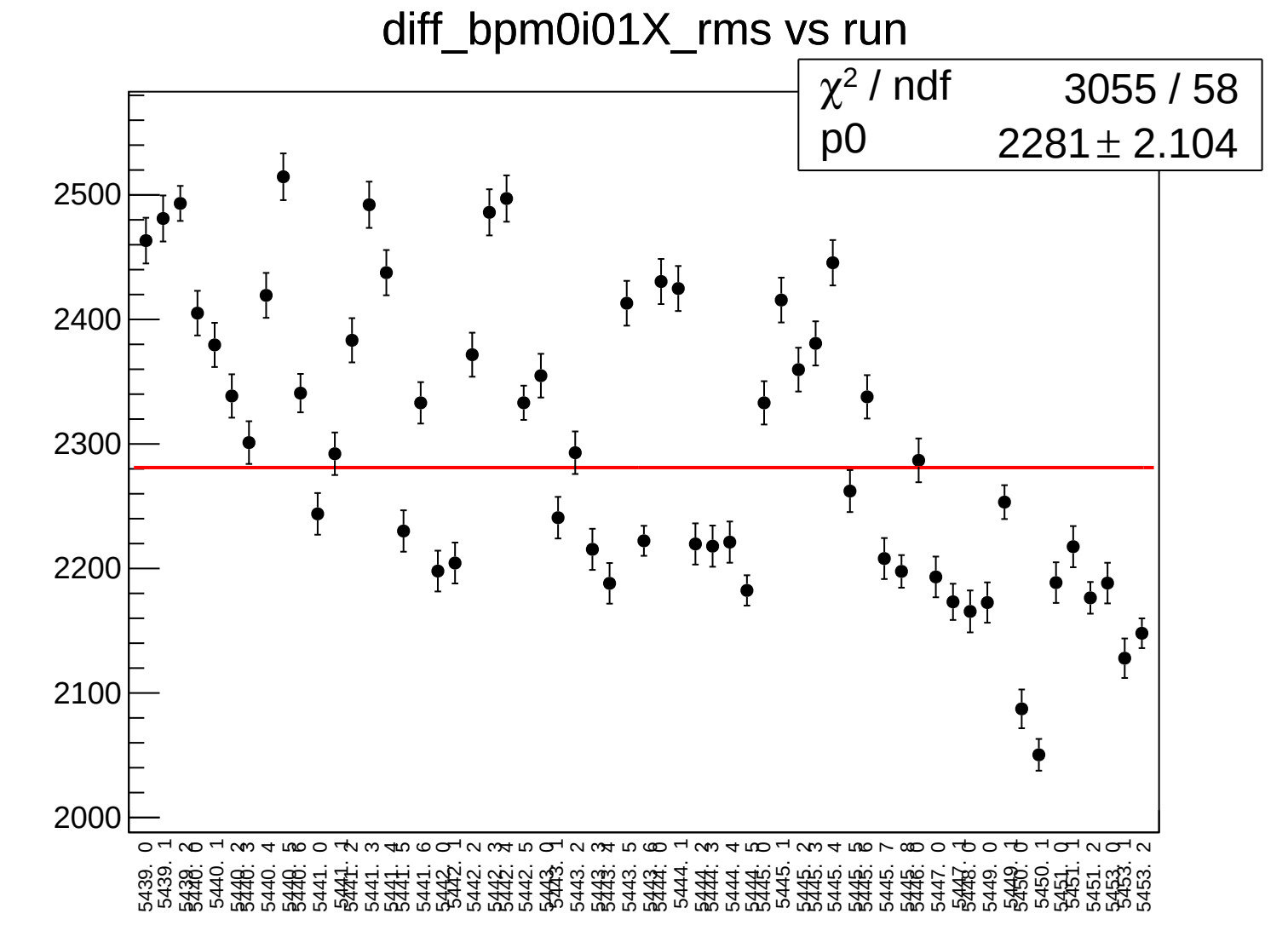

diff_cav4dY_mean vs run
χ² / ndf 45.92 / 58
p0 0.0005388 ± 0.002163
pull
Entries 59
Mean 109
Std Dev 94.33

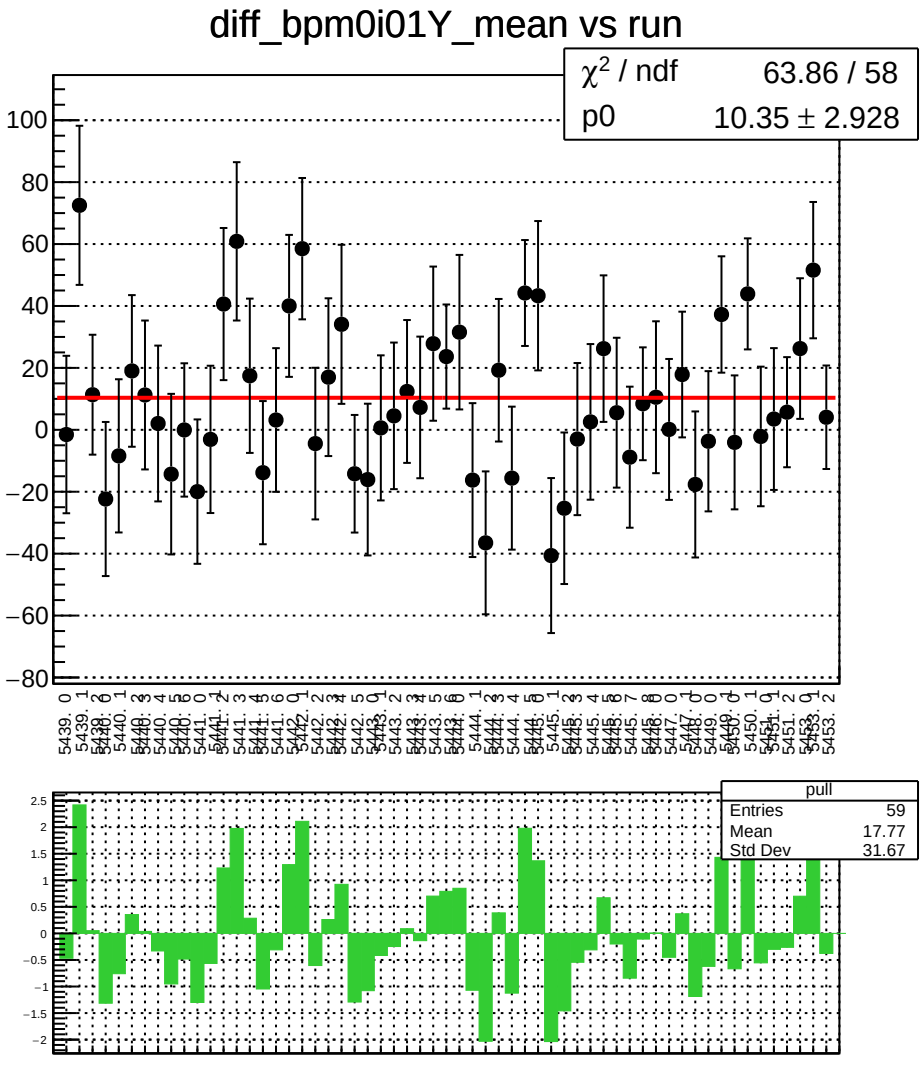

pull1D
Entries 59
Mean 0.01661
Std Dev 0.8821

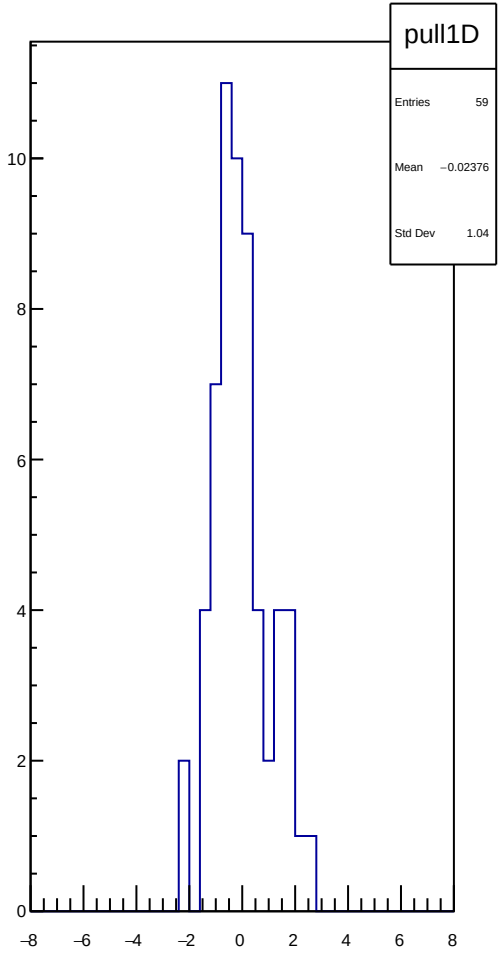

diff_cav4dY_rms vs run
χ² / ndf 1039 / 58
p0 1.66 ± 0.00153
1.75
1.7
1.65
1.6
1.55

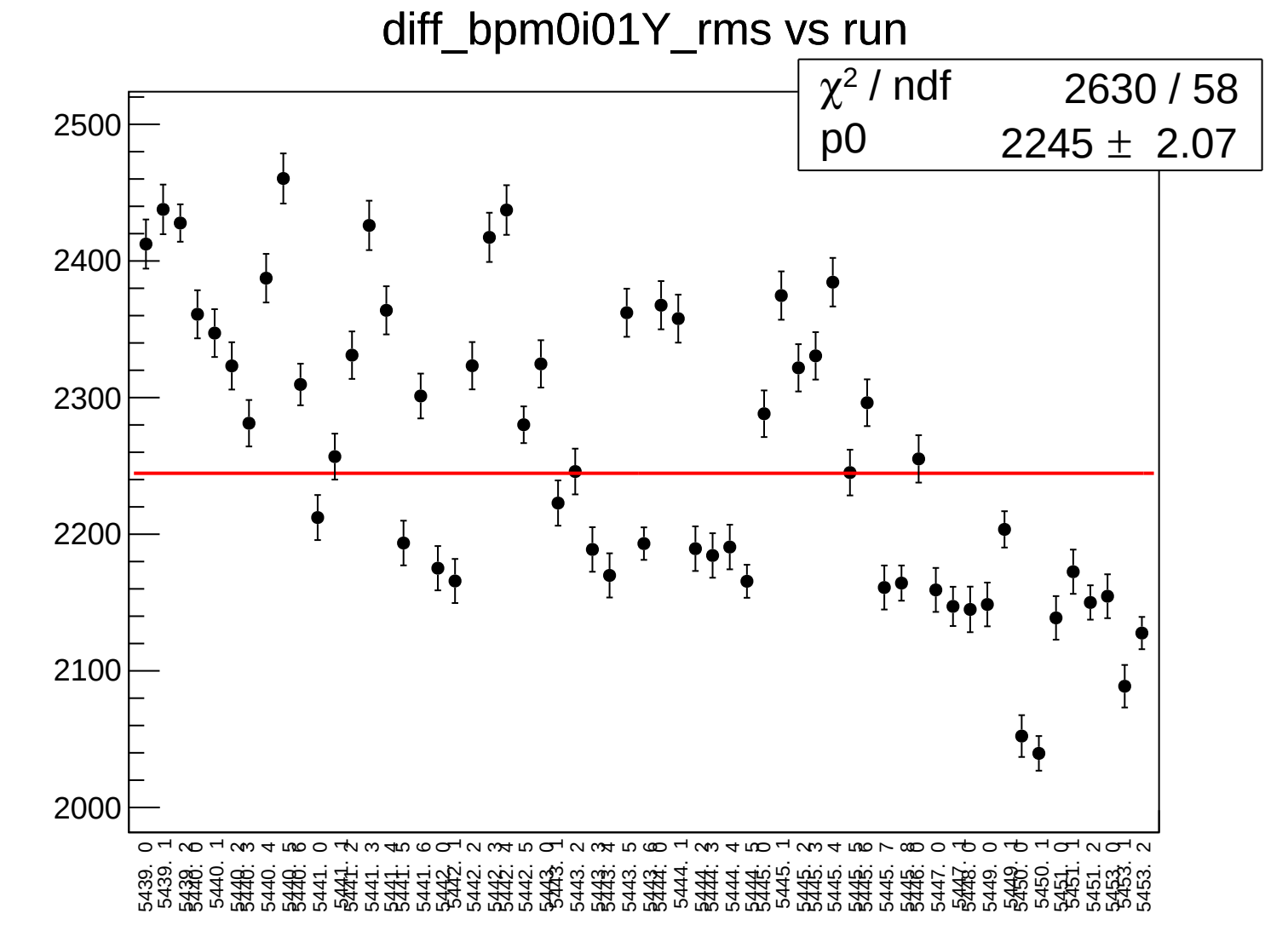

diff_bpm0i01X_mean vs run
χ² / ndf 63.54 / 58
p0 45.24 ± 2.976
pull
Entries 59
Mean 73.14
Std Dev 66.8

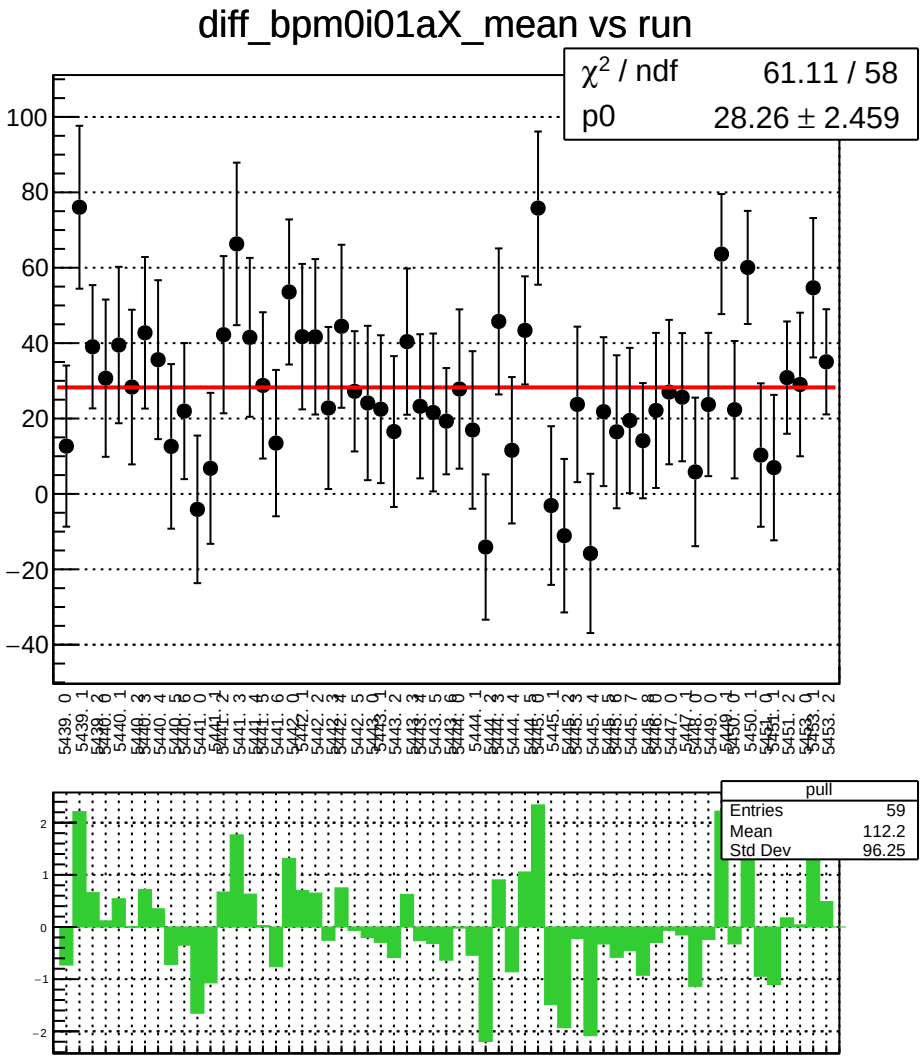

pull1D
Entries 59
Mean −0.02058
Std Dev 1.038

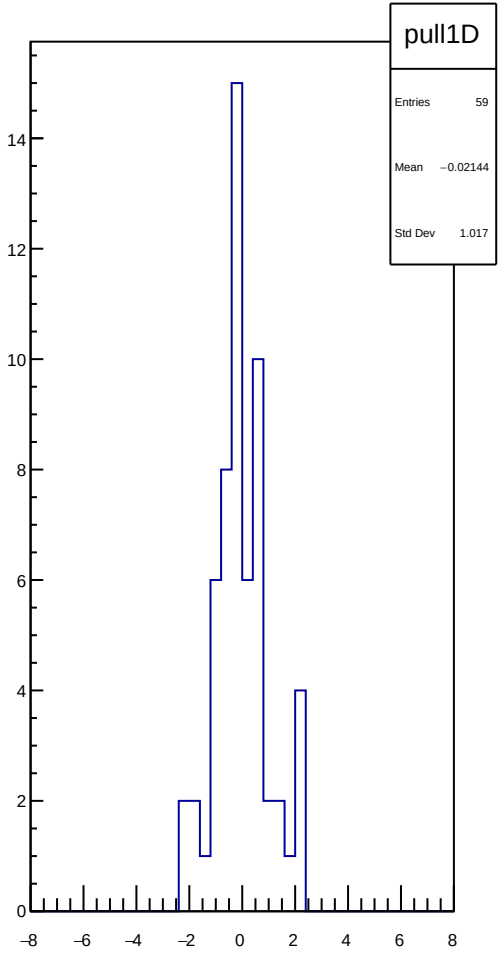

diff_bpm0i01X_rms vs run
χ² / ndf 3055 / 58
p0 2281 ± 2.104
2500
2400
2300
2200
2100
2000

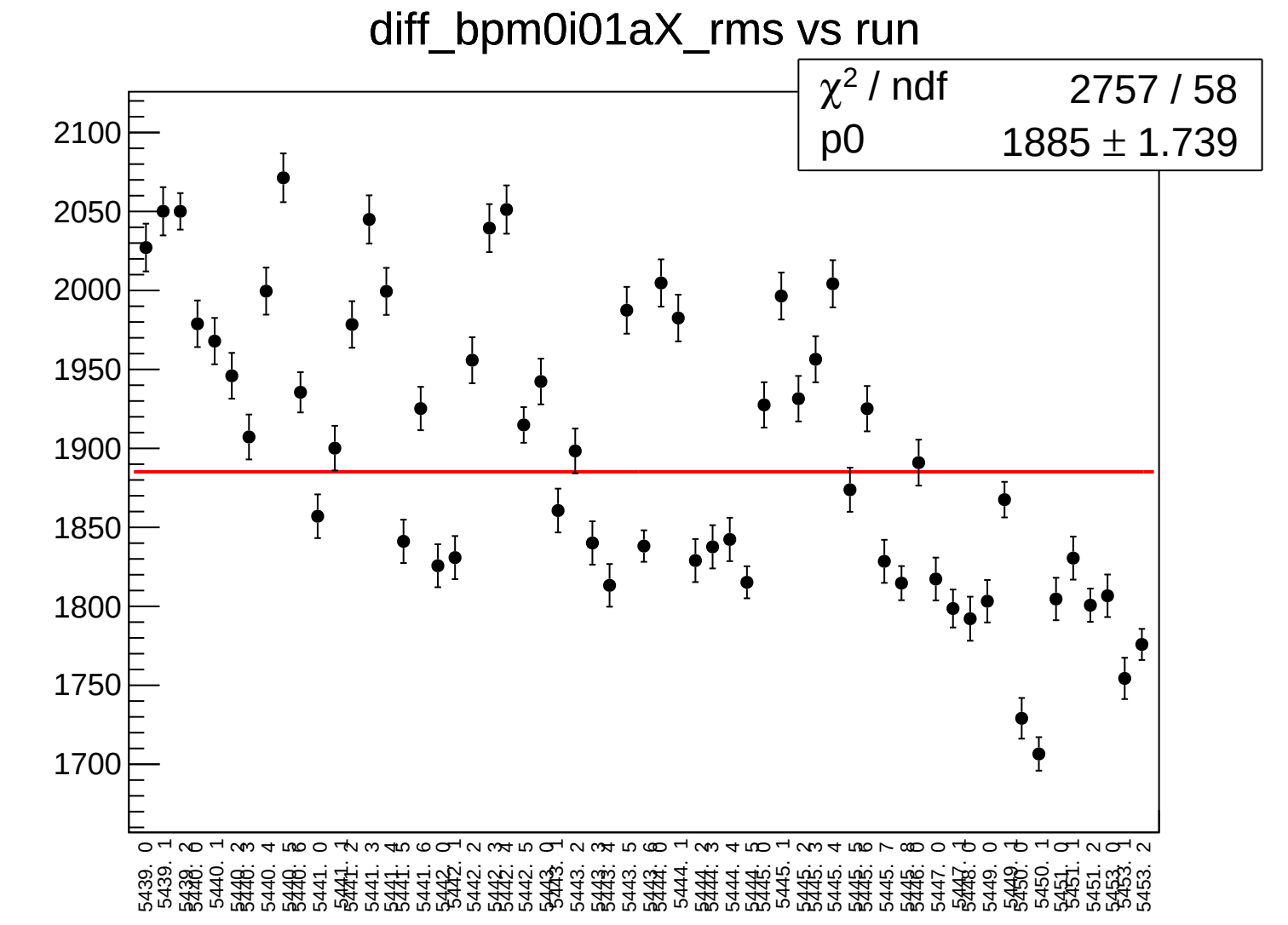

diff_bpm0i01Y_mean vs run
$\chi^2$ / ndf 63.86 / 58
p0 10.35 ± 2.928
pull
Entries 59
Mean 17.77
Std Dev 31.67

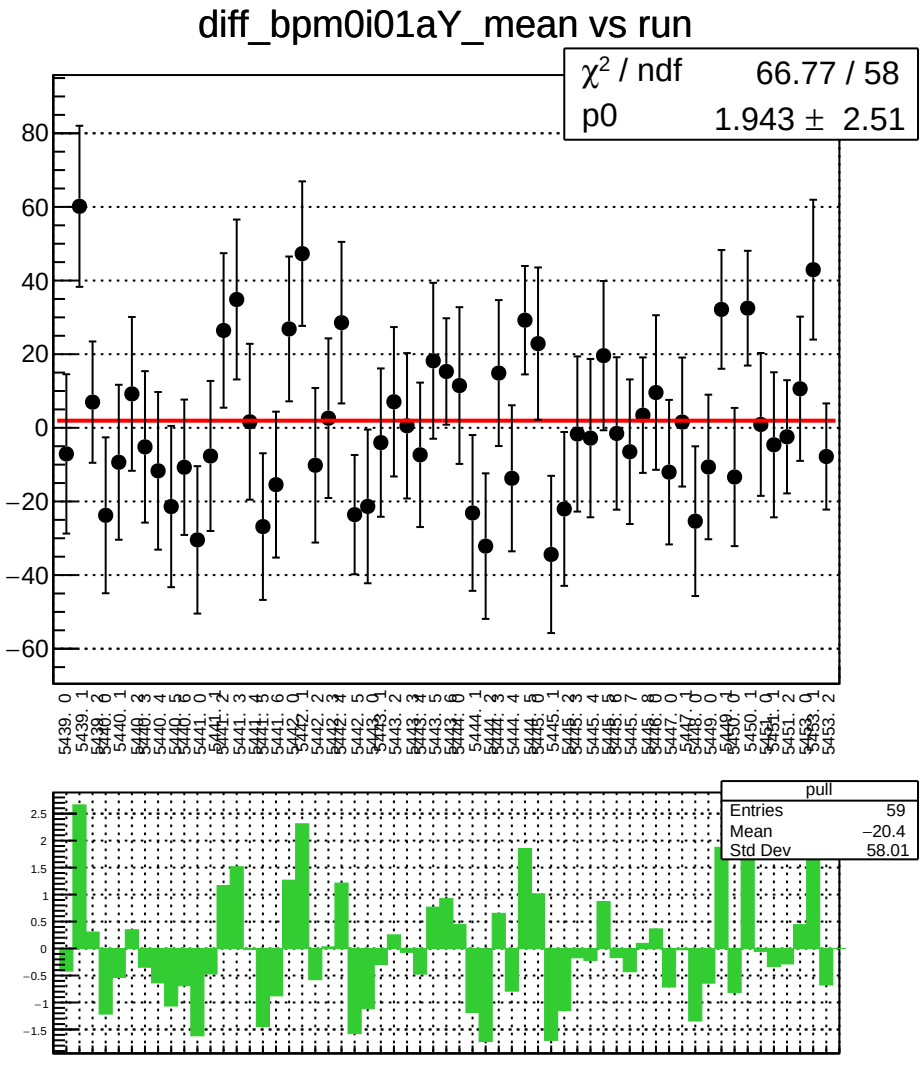

pull1D
Entries 59
Mean −0.02376
Std Dev 1.04

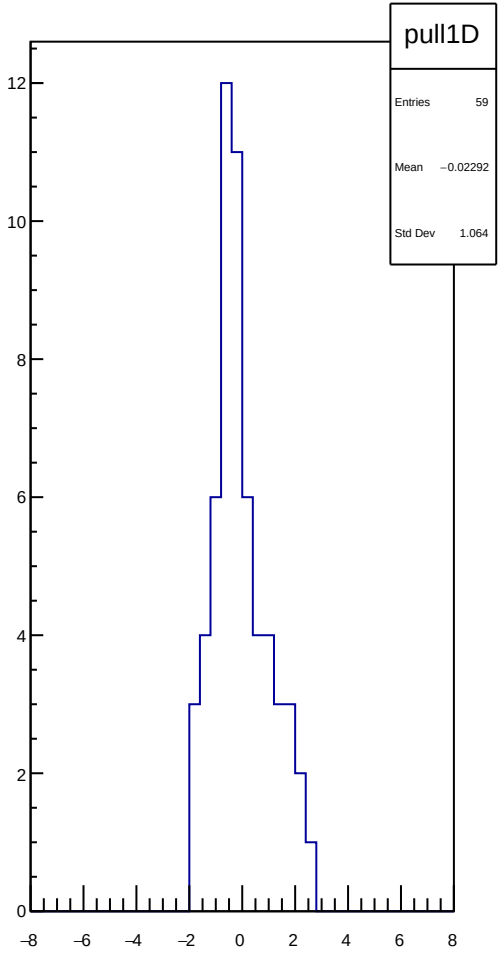

diff_bpm0i01Y_rms vs run
χ² / ndf 2630 / 58
p0 2245 ± 2.07
2500
2400
2300
2200
2100
2000

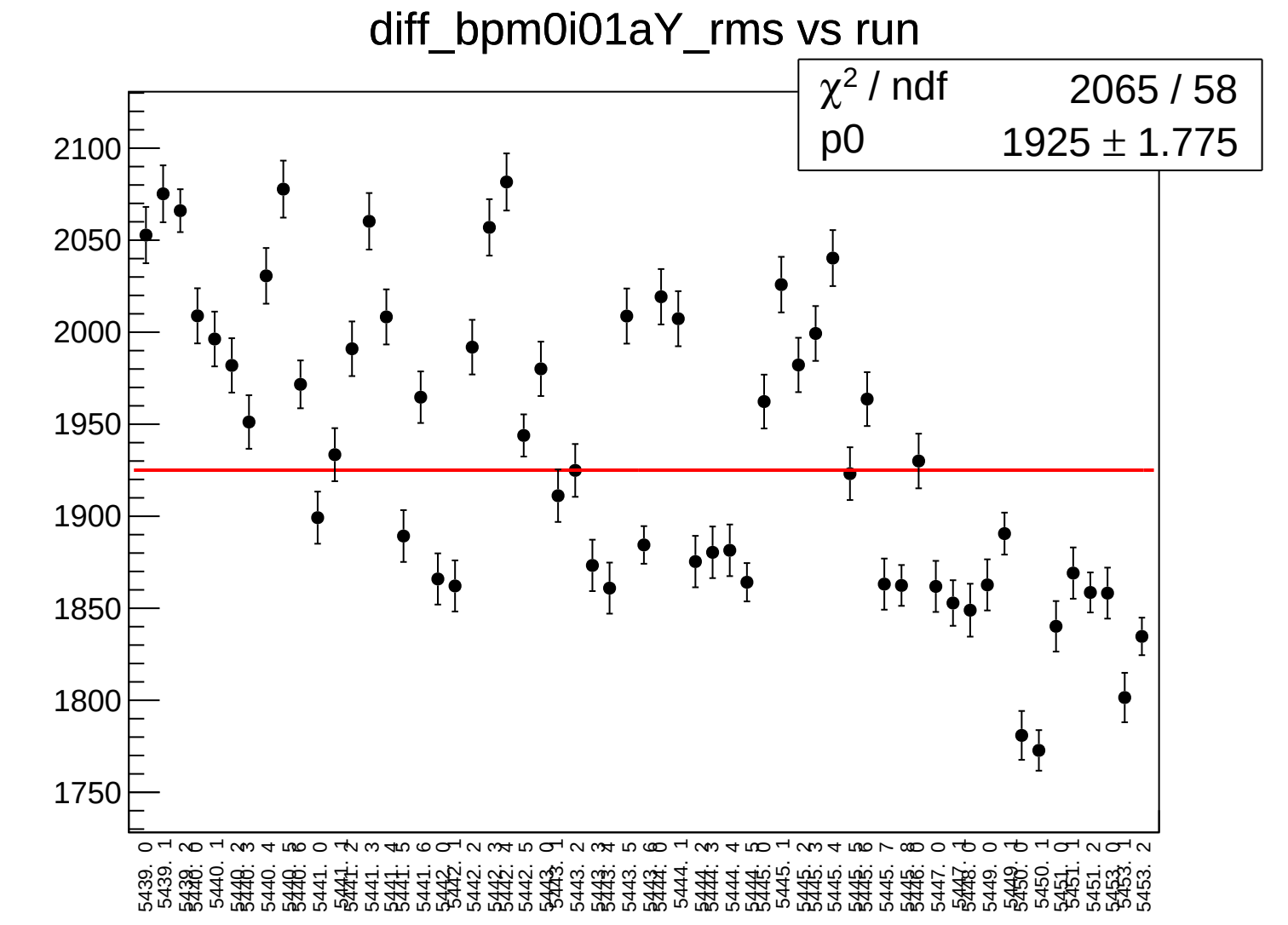

diff_bpm0i01aX_mean vs run
χ² / ndf 61.11 / 58
p0 28.26 ± 2.459
pull
Entries 59
Mean 112.2
Std Dev 96.25

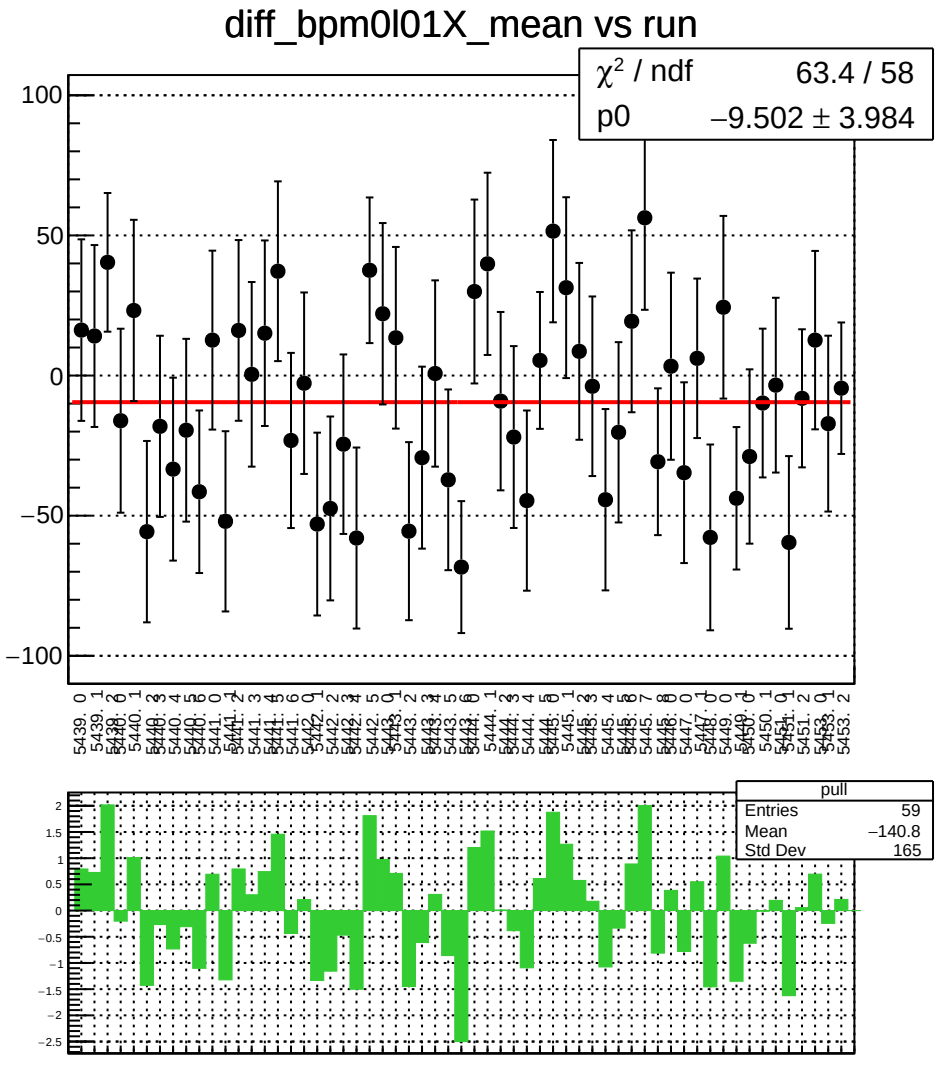

pull1D
Entries 59
Mean −0.02144
Std Dev 1.017

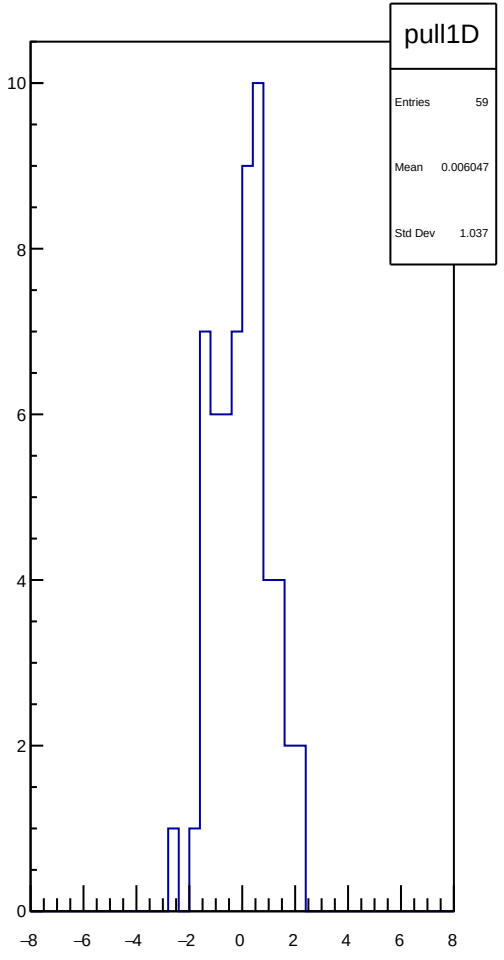

diff_bpm0i01aX_rms vs run
χ² / ndf 2757 / 58
p0 1885 ± 1.739
2100
2050
2000
1950
1900
1850
1800
1750
1700

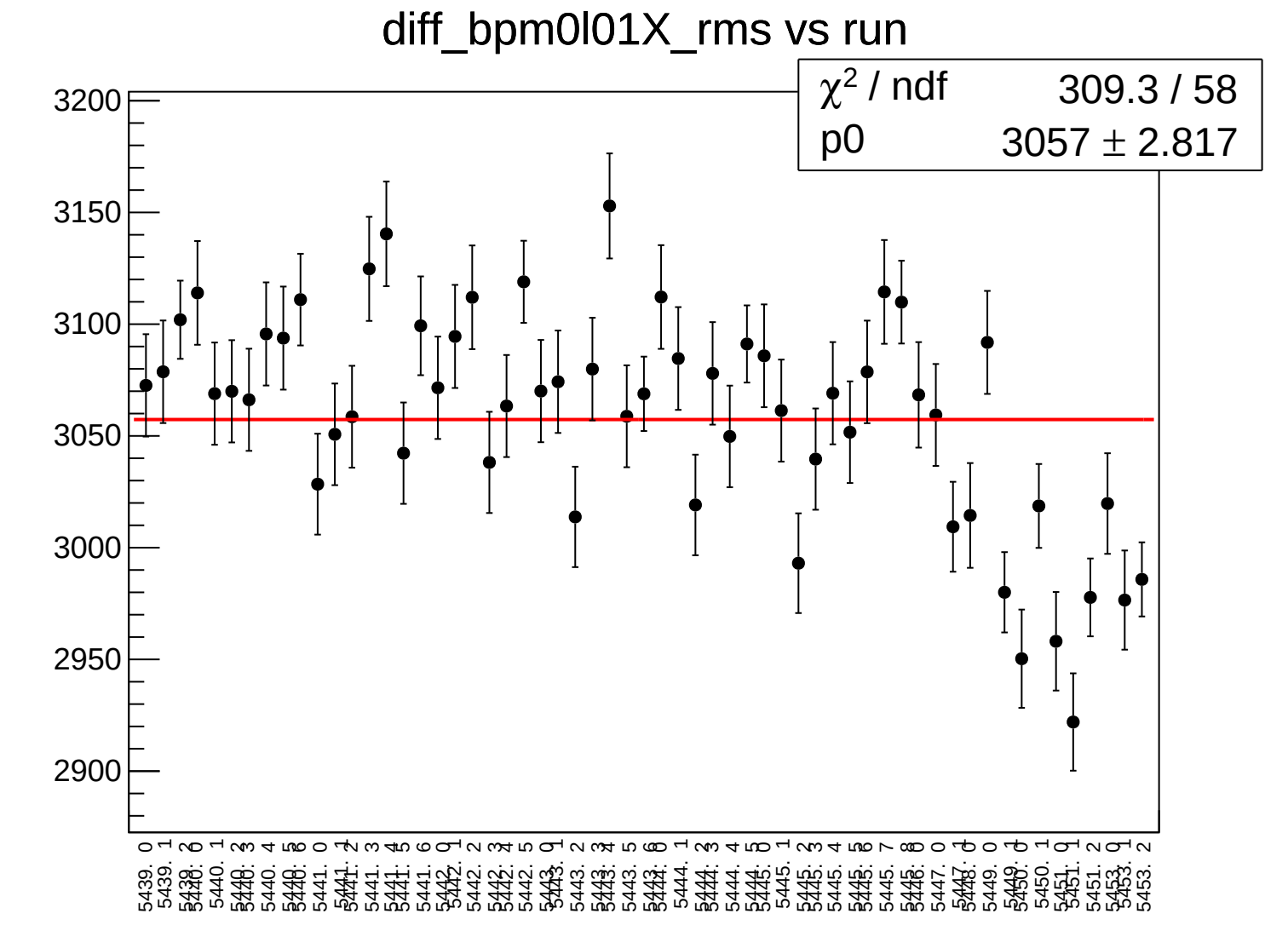

diff_bpm0i01aY_mean vs run
χ² / ndf 66.77 / 58
p0 1.943 ± 2.51
pull
Entries 59
Mean −20.4
Std Dev 58.01

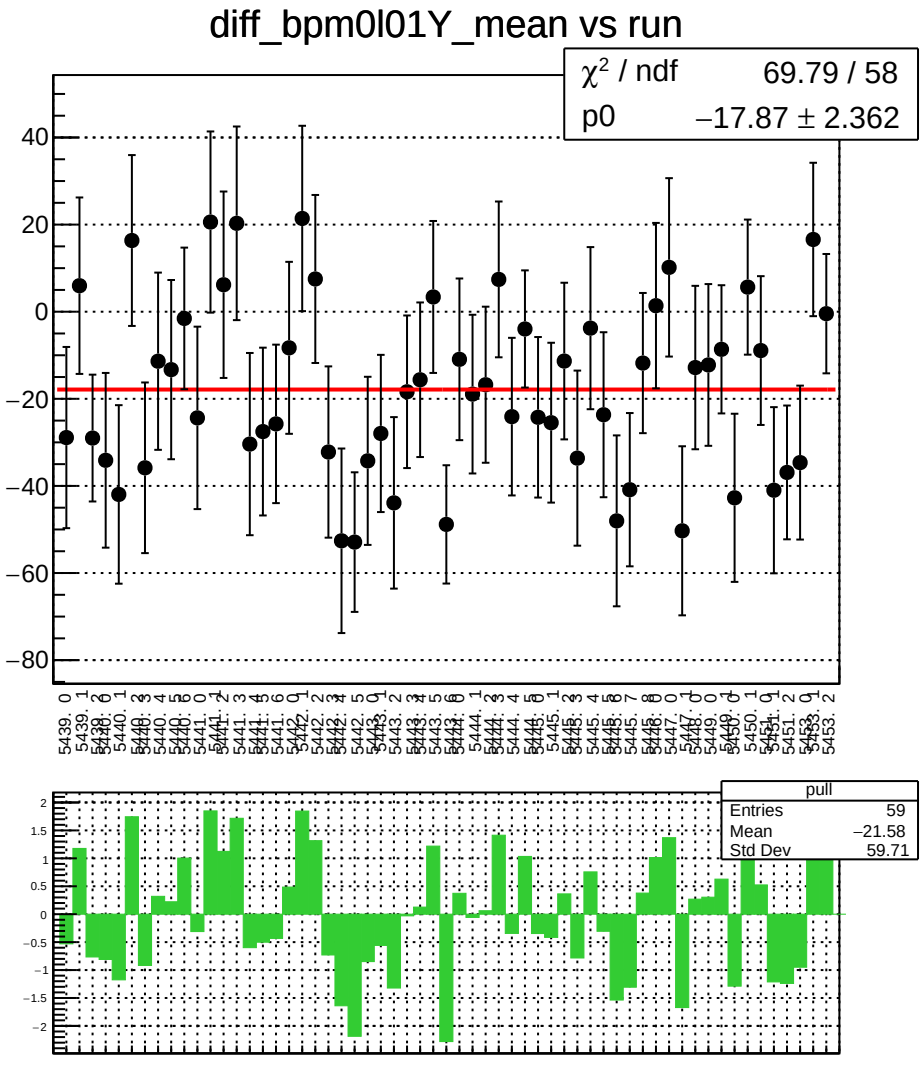

pull1D
Entries 59
Mean −0.02292
Std Dev 1.064

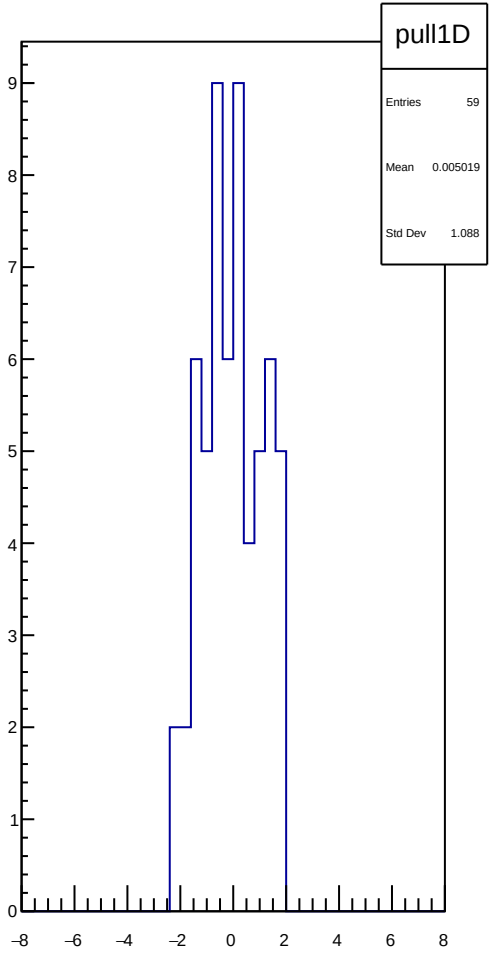

diff_bpm0i01aY_rms vs run
χ² / ndf 2065 / 58
p0 1925 ± 1.775
2100
2050
2000
1950
1900
1850
1800
1750

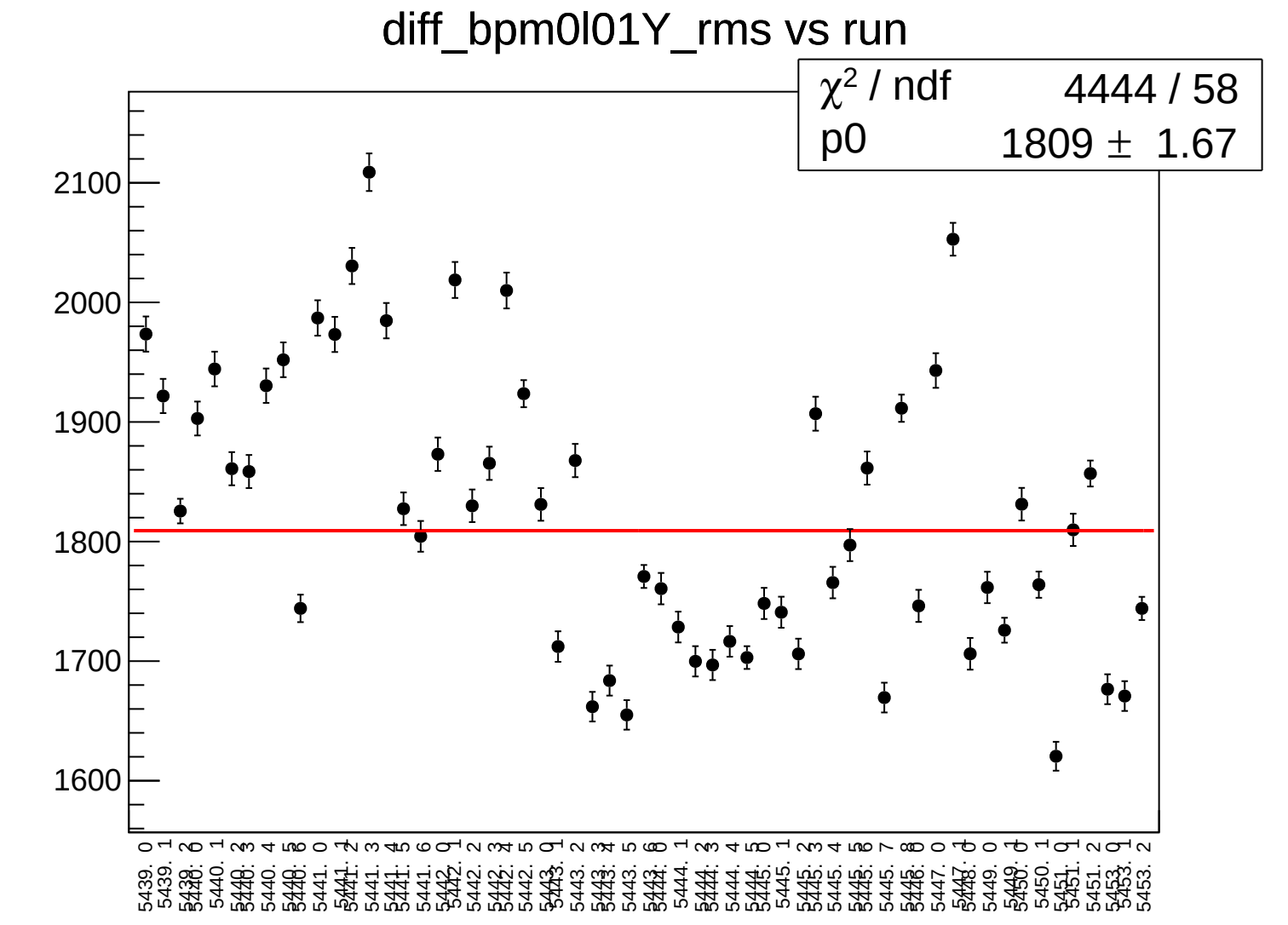

diff_bpm0l01X_mean vs run
χ² / ndf 63.4 / 58
p0 −9.502 ± 3.984
pull
Entries 59
Mean −140.8
Std Dev 165

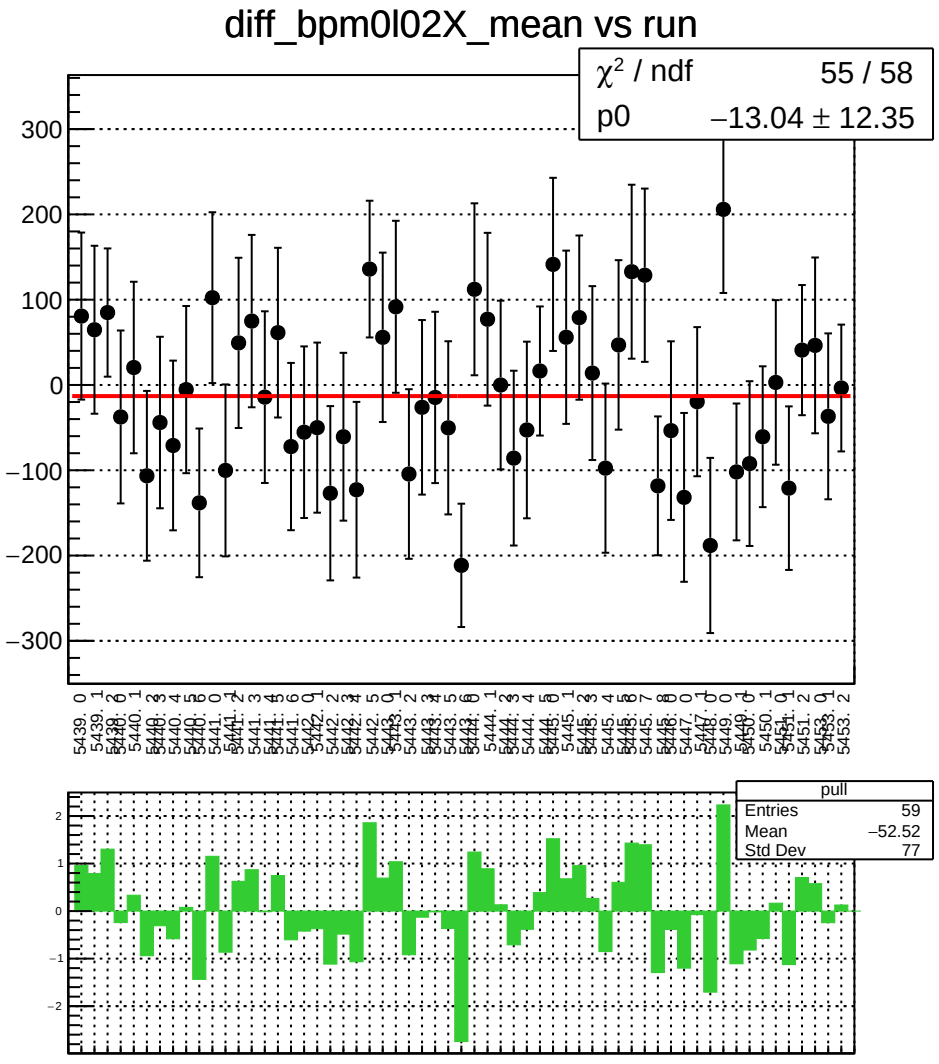

pull1D
Entries 59
Mean 0.006047
Std Dev 1.037

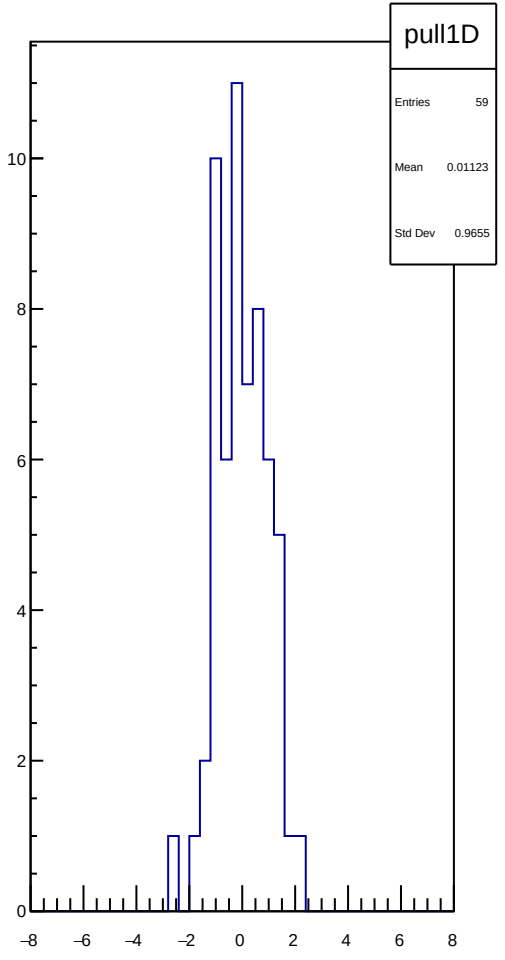

diff_bpm0l01X_rms vs run
χ² / ndf 309.3 / 58
p0 3057 ± 2.817
3200
3150
3100
3050
3000
2950
2900

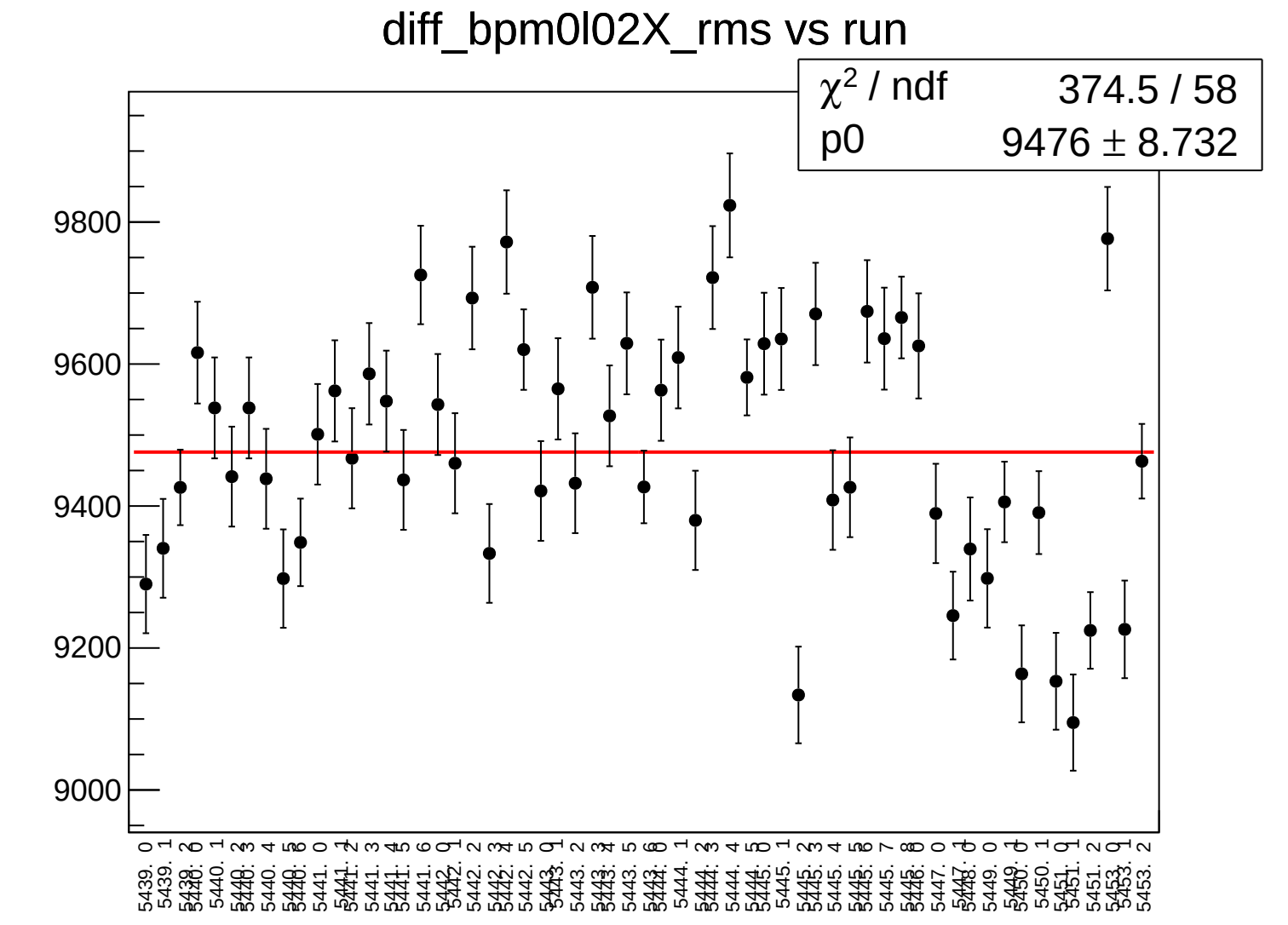

diff_bpm0l01Y_mean vs run
$\chi^2$ / ndf 69.79 / 58
p0 −17.87 ± 2.362
pull
Entries 59
Mean −21.58
Std Dev 59.71

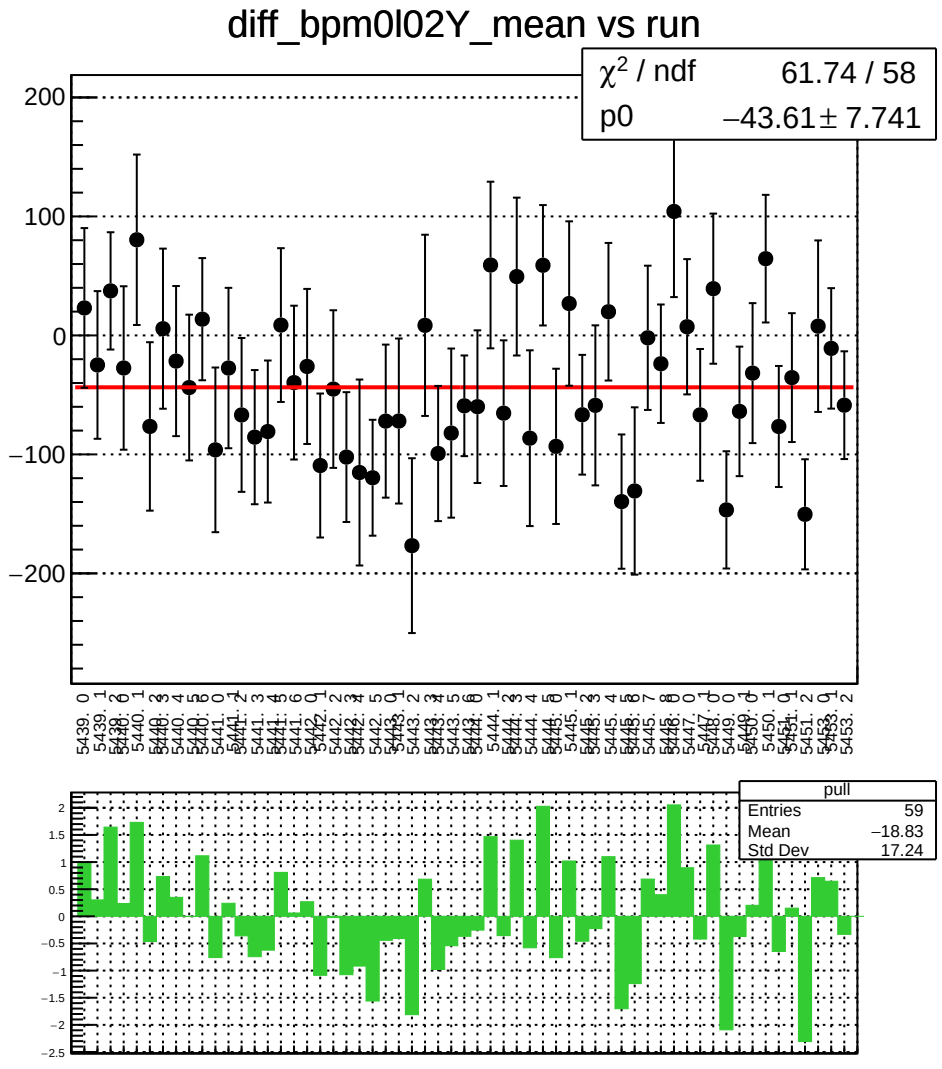

pull1D
Entries 59
Mean 0.005019
Std Dev 1.088

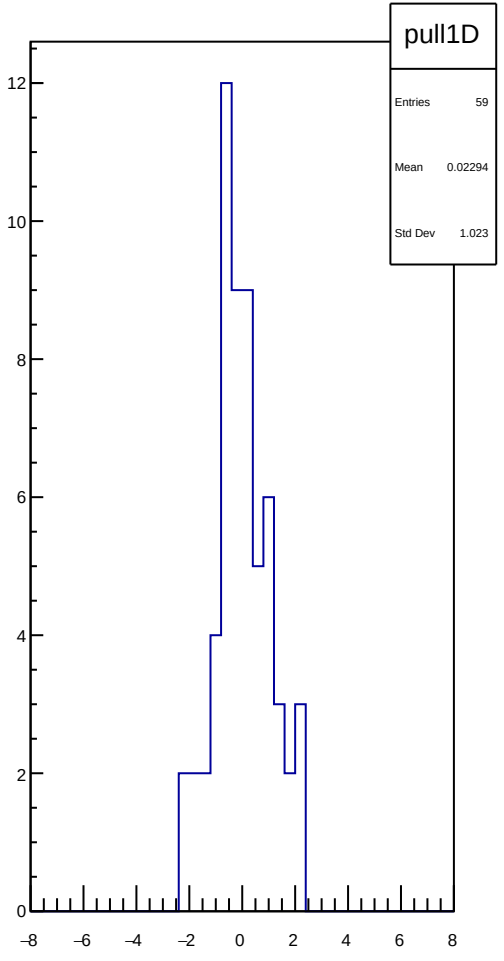

diff_bpm0l01Y_rms vs run
χ² / ndf 4444 / 58
p0 1809 ± 1.67
2100
2000
1900
1800
1700
1600
5439. 0
5439. 1
5439. 2
5439. 3
5439. 4
5439. 5
5439. 6
5439. 7
5440. 0
5440. 1
5440. 2
5440. 3
5440. 4
5440. 5
5440. 6
5440. 7
5441. 0
5441. 1
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5441. 7
5442. 0
5442. 1
5442. 2
5442. 3
5442. 4
5442. 5
5442. 6
5442. 7
5443. 0
5443. 1
5443. 2
5443. 3
5443. 4
5443. 5
5443. 6
5443. 7
5444. 0
5444. 1
5444. 2
5444. 3
5444. 4
5444. 5
5444. 6
5444. 7
5445. 0
5445. 1
5445. 2
5445. 3
5445. 4
5445. 5
5445. 6
5445. 7
5445. 8
5446. 0
5446. 1
5447. 0
5447. 1
5448. 0
5448. 1
5449. 0
5449. 1
5450. 0
5450. 1
5451. 0
5451. 1
5451. 2
5453. 0
5453. 1
5453. 2

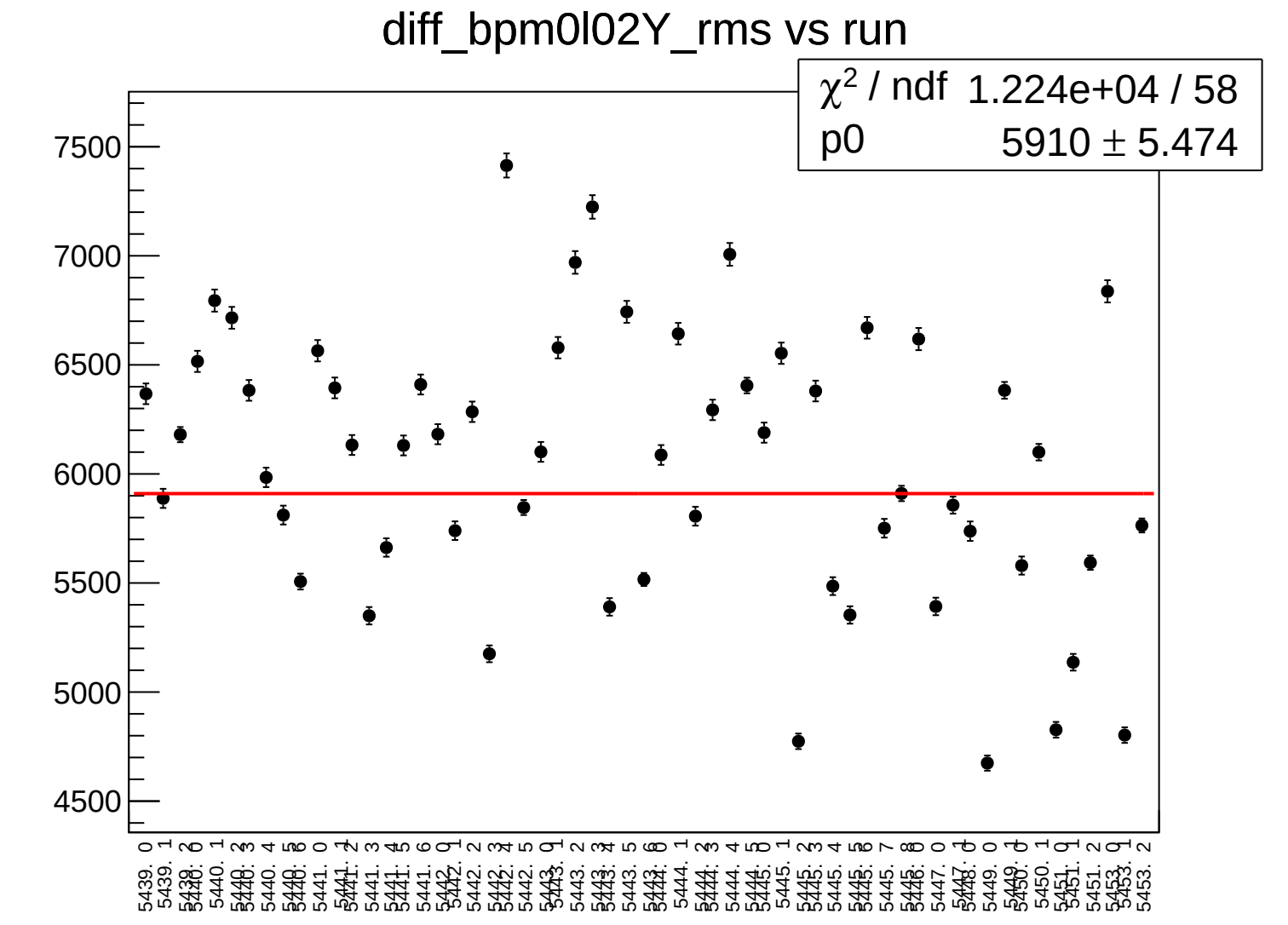

diff_bpm0l02X_mean vs run
χ² / ndf 55 / 58
p0 −13.04 ± 12.35
pull
Entries 59
Mean −52.52
Std Dev 77

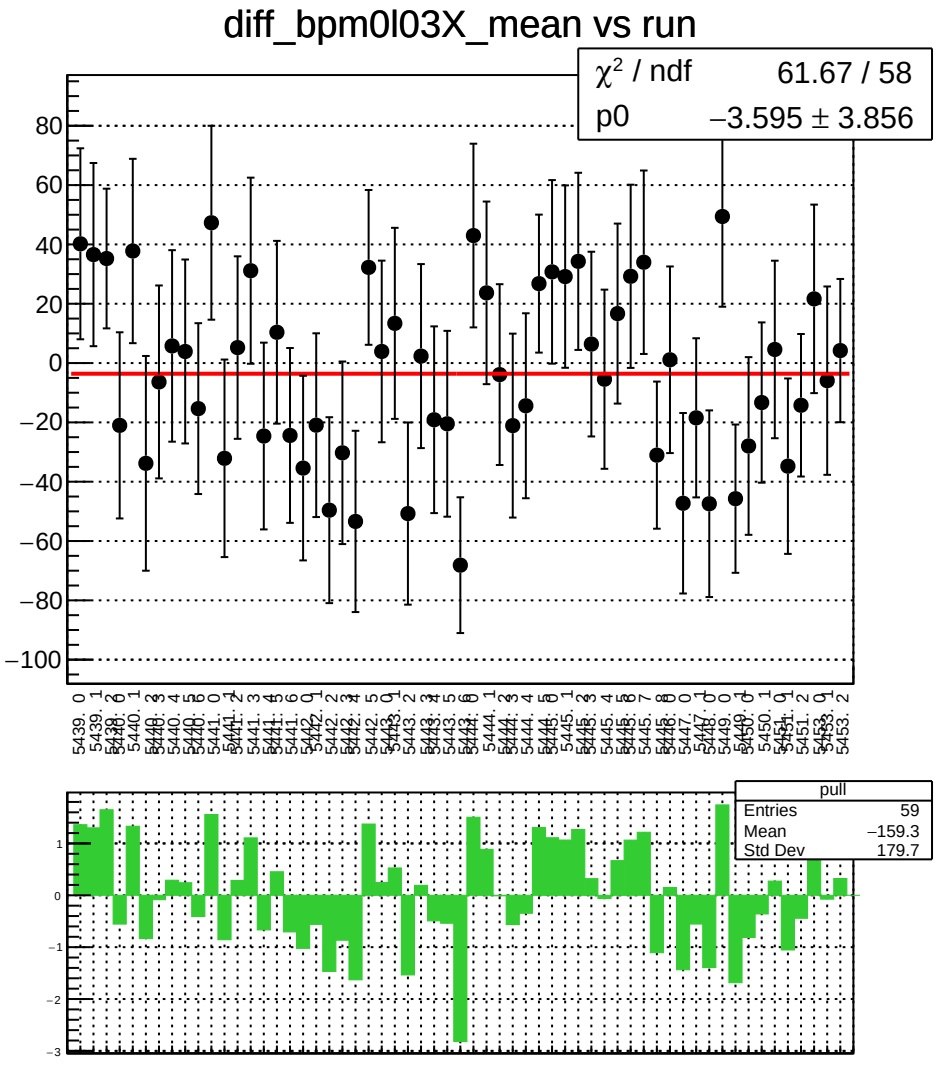

pull1D
Entries 59
Mean 0.01123
Std Dev 0.9655

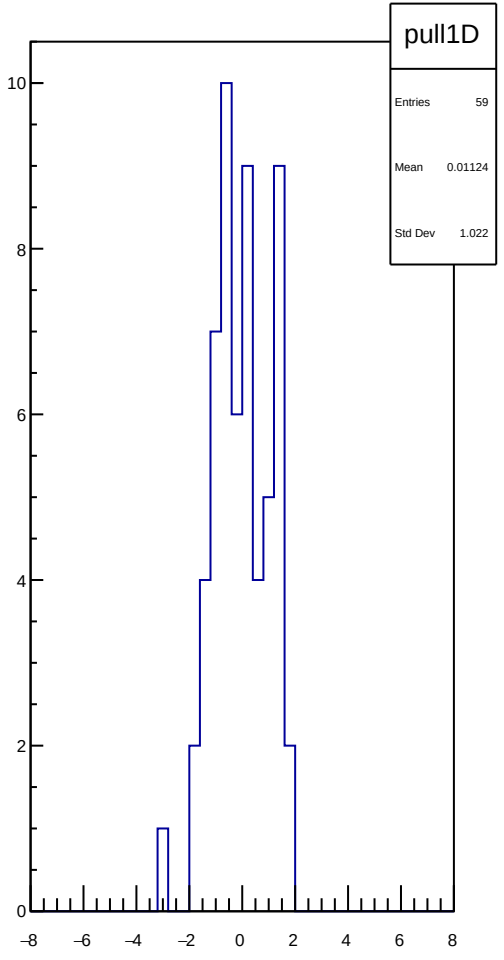

diff_bpm0l02X_rms vs run
χ² / ndf 374.5 / 58
p0 9476 ± 8.732
9800
9600
9400
9200
9000

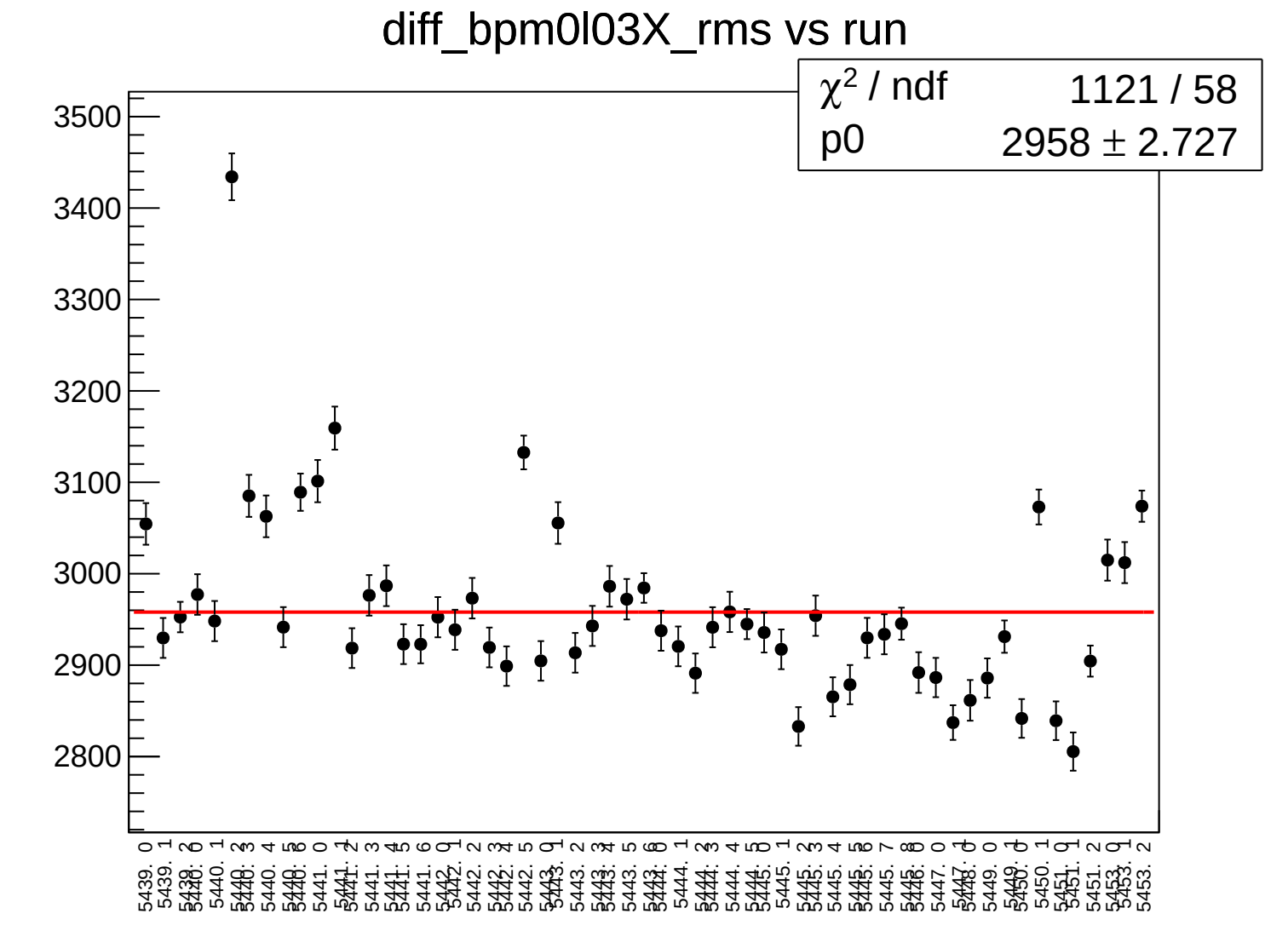

diff_bpm0l02Y_mean vs run
$\chi^2$ / ndf 61.74 / 58
p0 −43.61 ± 7.741
200
100
0
−100
−200
pull
Entries 59
Mean −18.83
Std Dev 17.24
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

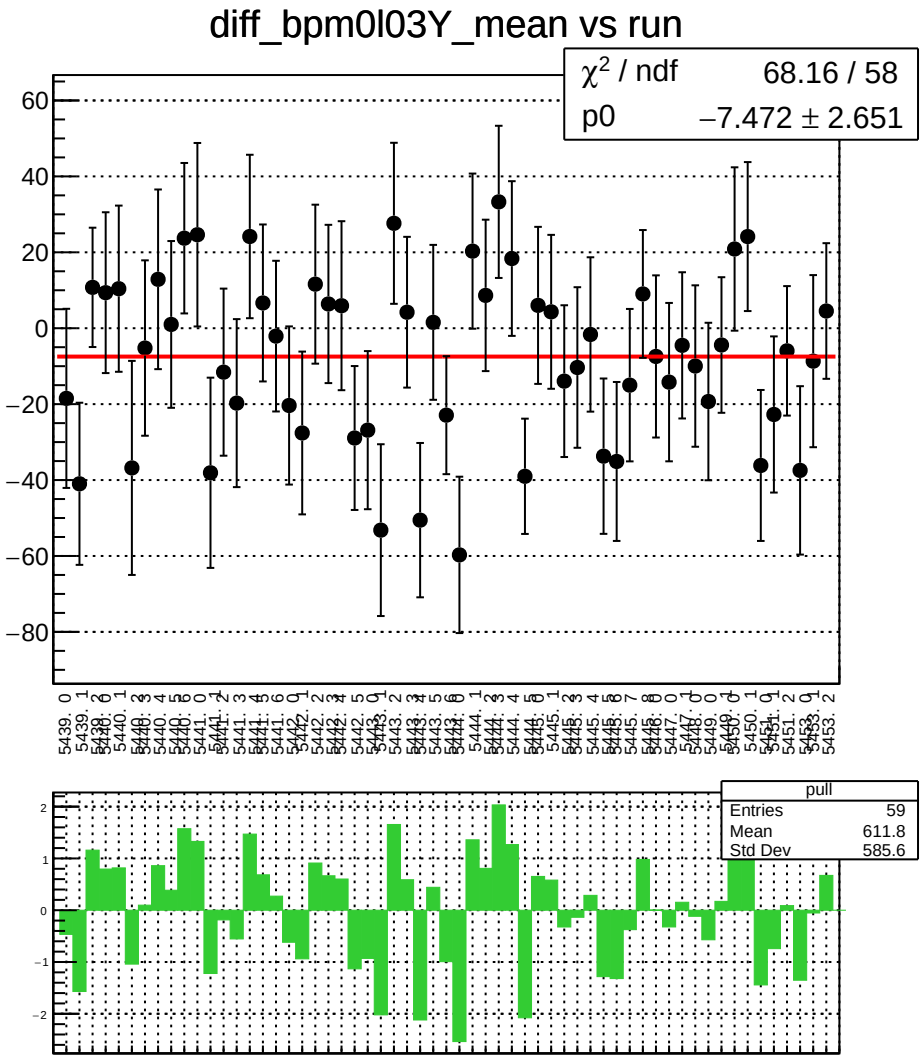

pull1D
Entries 59
Mean 0.02294
Std Dev 1.023
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

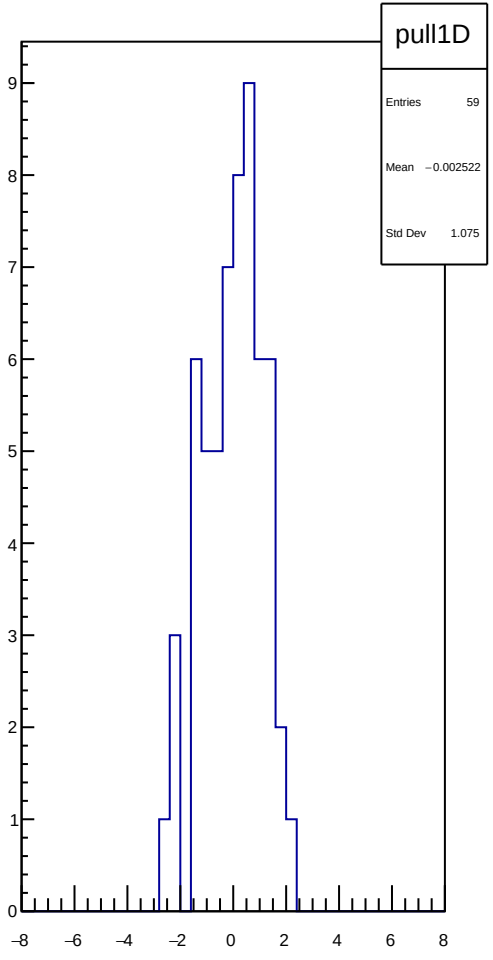

diff_bpm0l02Y_rms vs run
χ² / ndf 1.224e+04 / 58
p0 5910 ± 5.474
7500
7000
6500
6000
5500
5000
4500

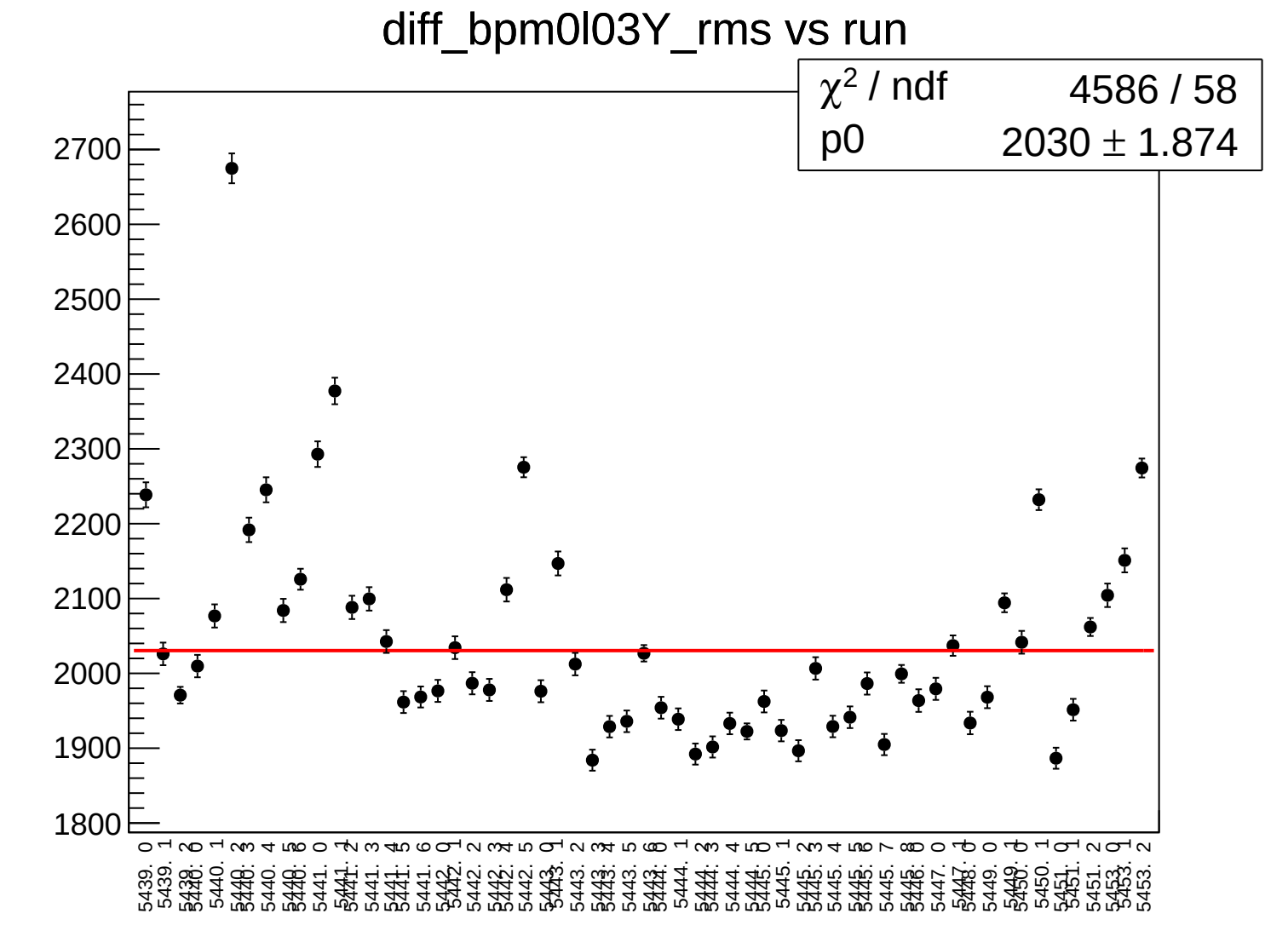

diff_bpm0l03X_mean vs run
χ² / ndf 61.67 / 58
p0 −3.595 ± 3.856
pull
Entries 59
Mean −159.3
Std Dev 179.7

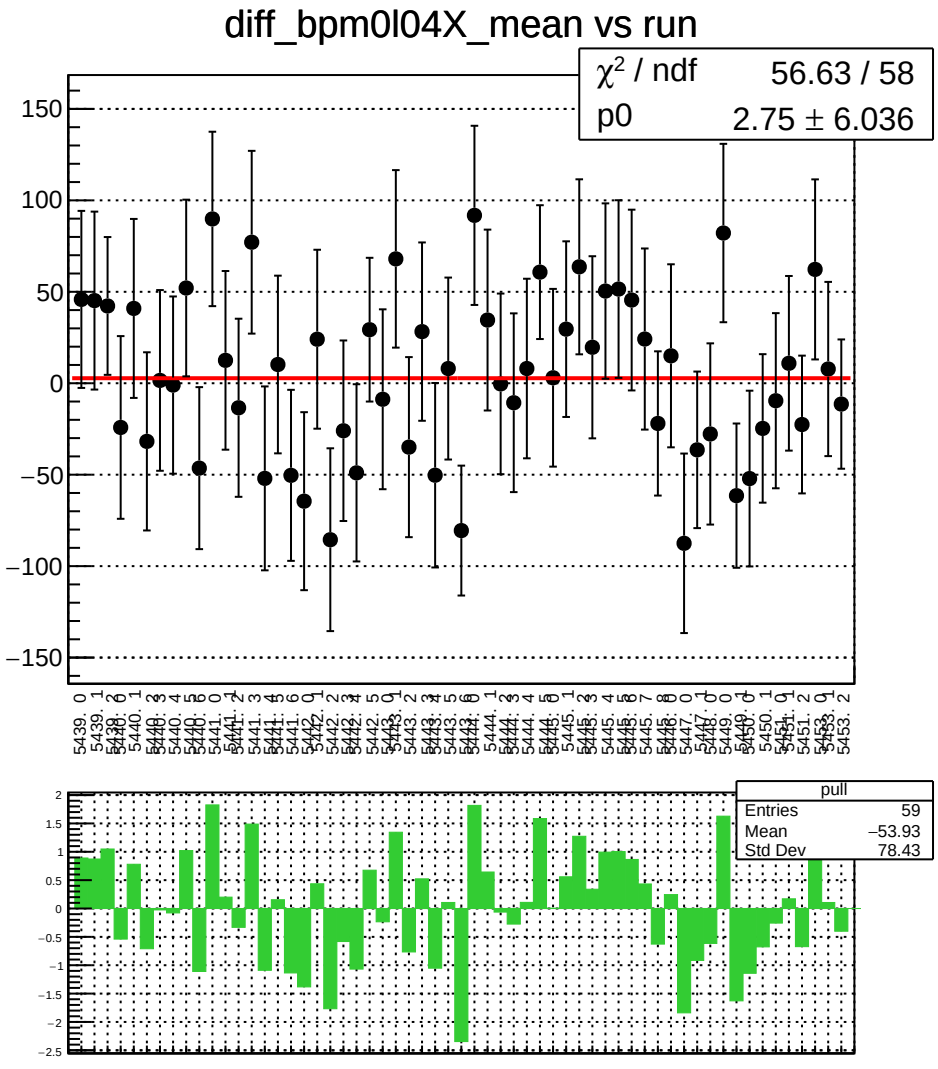

pull1D
Entries 59
Mean 0.01124
Std Dev 1.022

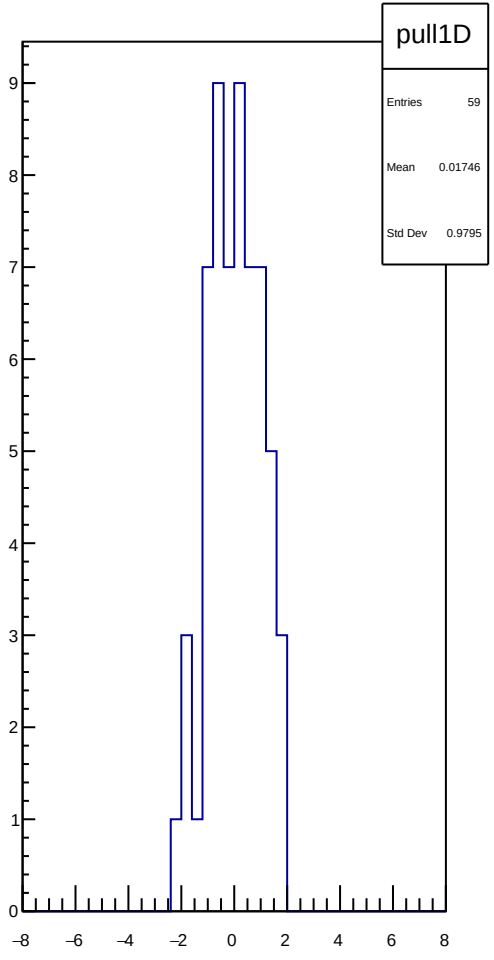

diff_bpm0l03X_rms vs run
χ² / ndf 1121 / 58
p0 2958 ± 2.727
3500
3400
3300
3200
3100
3000
2900
2800

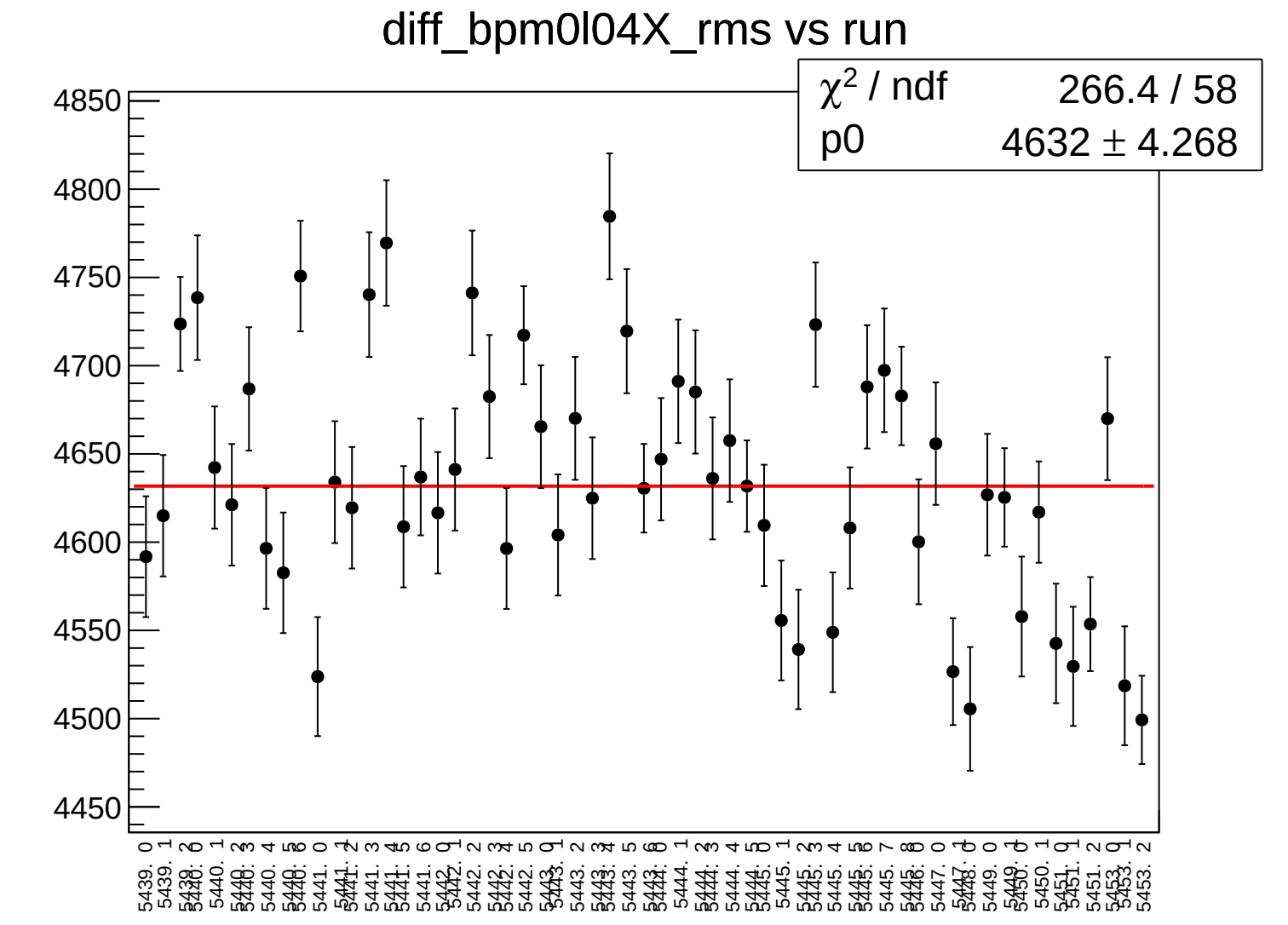

diff_bpm0l03Y_mean vs run
$\chi^2$ / ndf 68.16 / 58
p0 −7.472 ± 2.651
pull
Entries 59
Mean 611.8
Std Dev 585.6

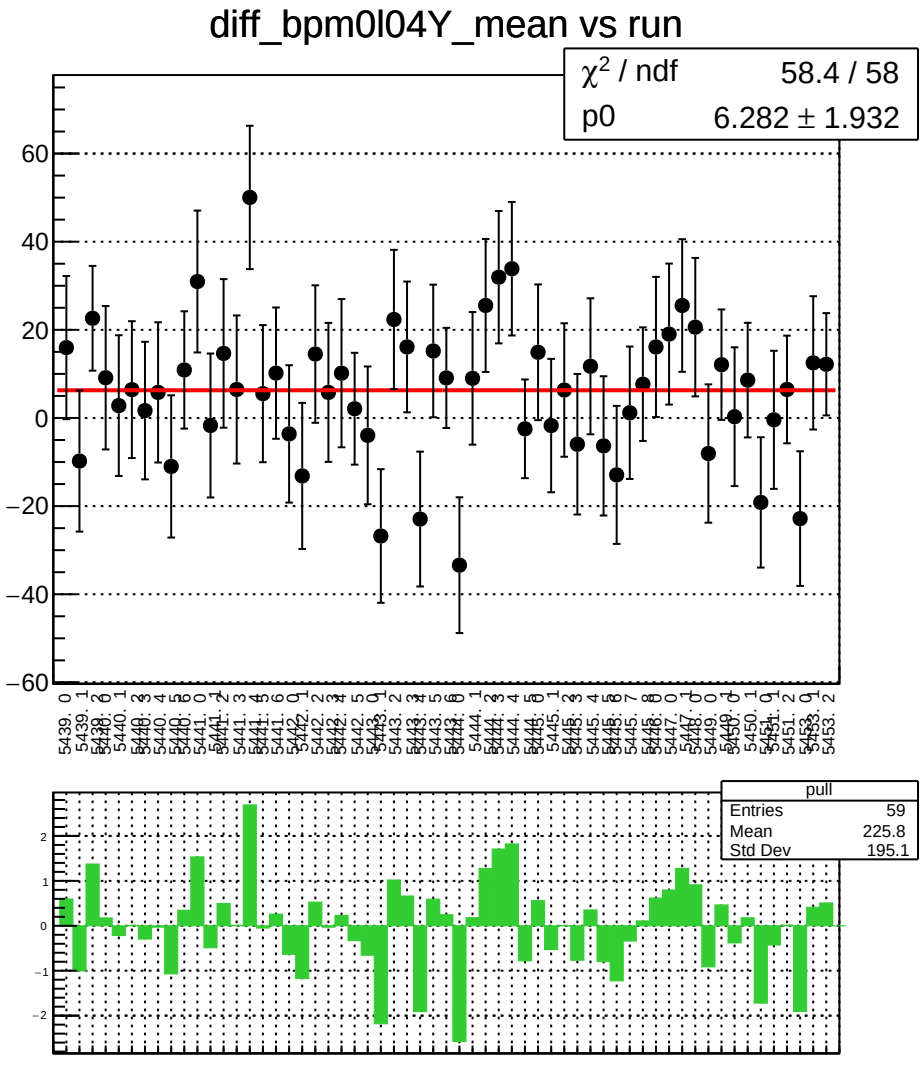

pull1D
Entries 59
Mean −0.002522
Std Dev 1.075

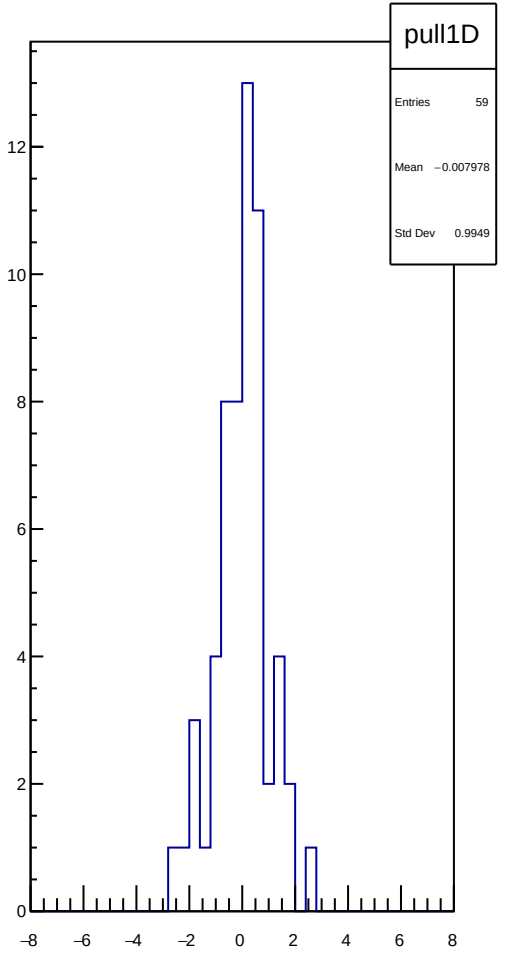

diff_bpm0l03Y_rms vs run
χ² / ndf 4586 / 58
p0 2030 ± 1.874
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800

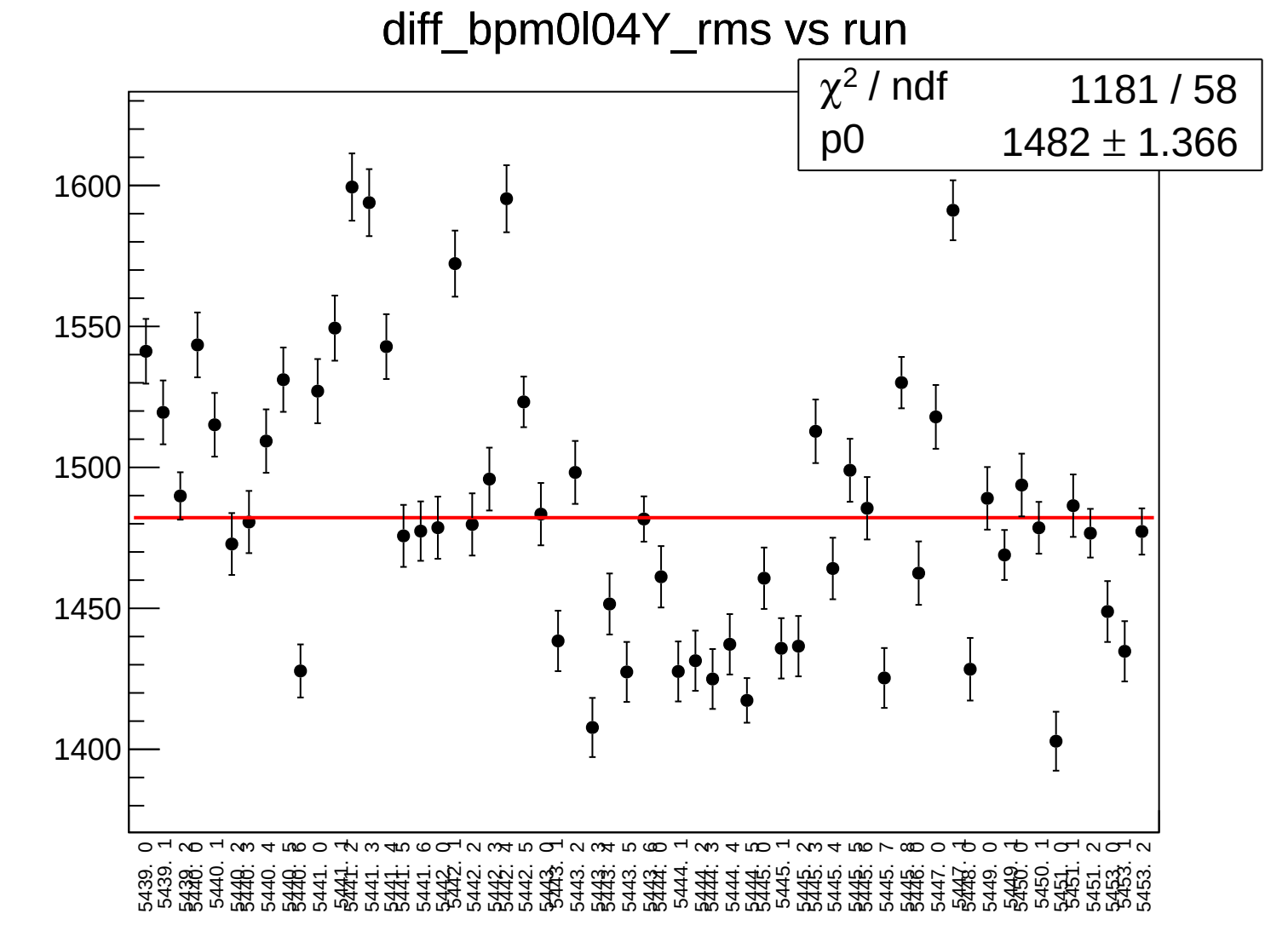

diff_bpm0l04X_mean vs run
χ² / ndf 56.63 / 58
p0 2.75 ± 6.036
pull
Entries 59
Mean −53.93
Std Dev 78.43

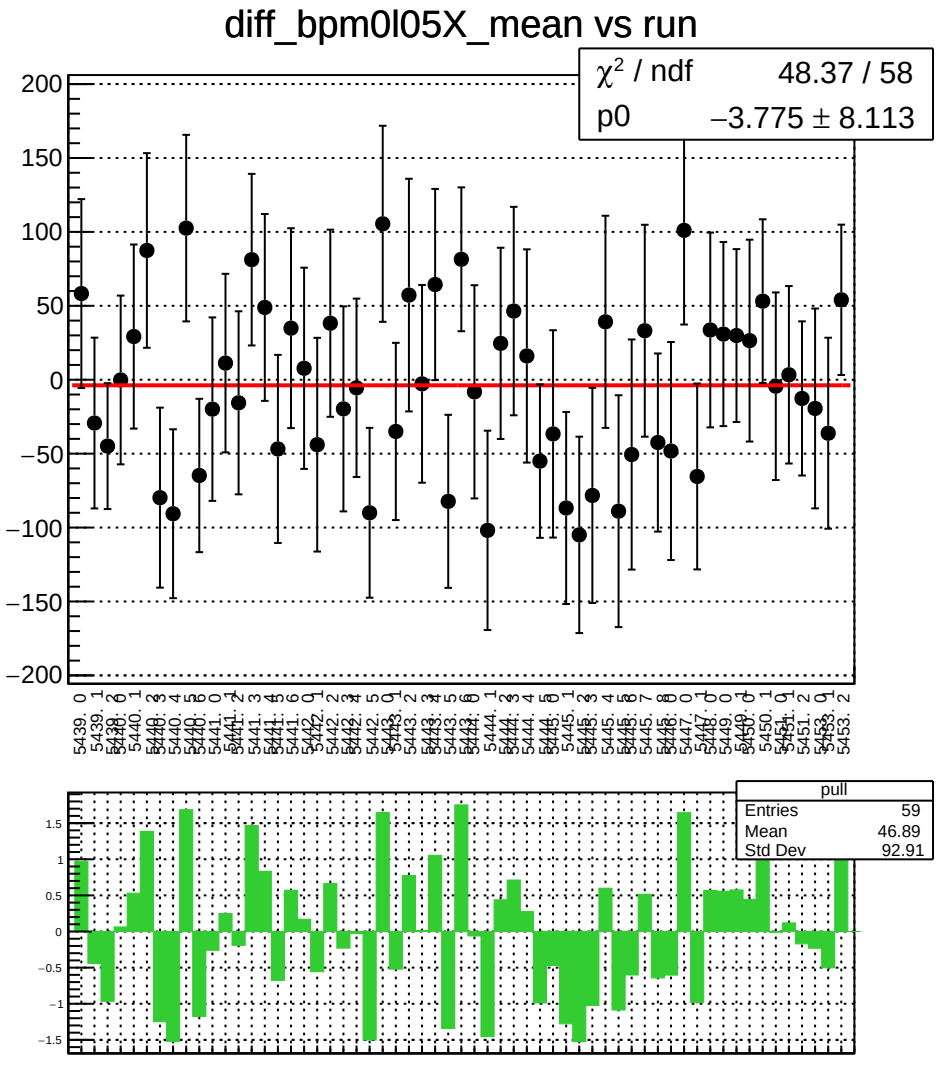

pull1D
Entries 59
Mean 0.01746
Std Dev 0.9795

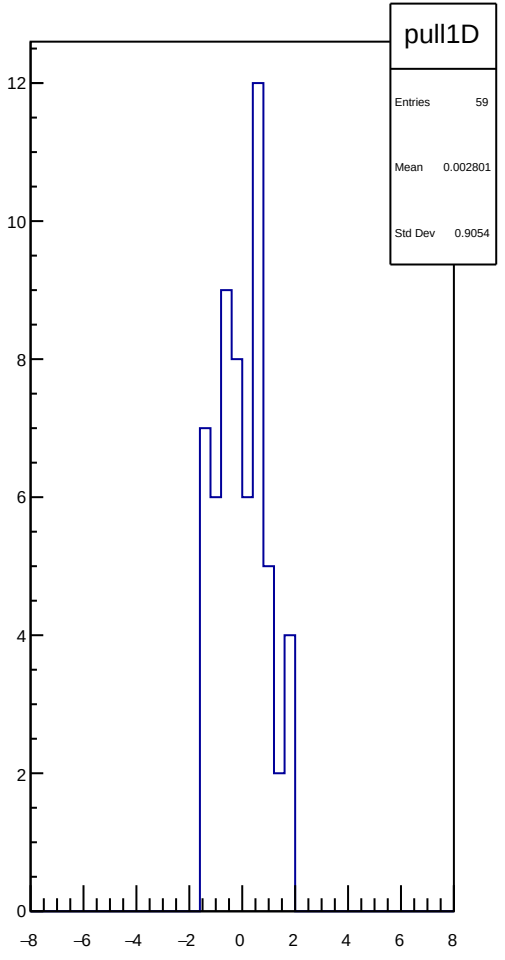

diff_bpm0l04X_rms vs run
χ² / ndf 266.4 / 58
p0 4632 ± 4.268
4850
4800
4750
4700
4650
4600
4550
4500
4450

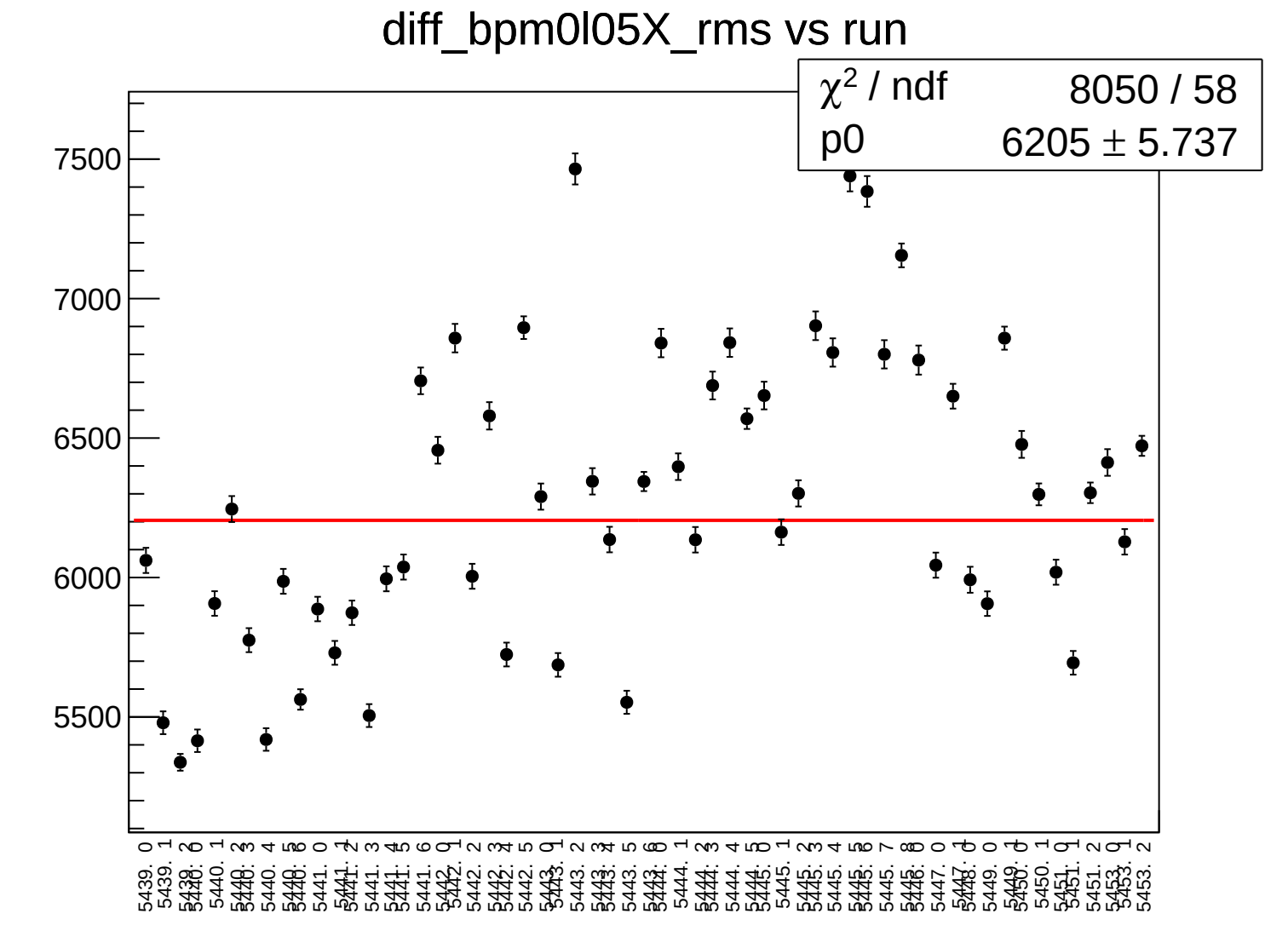

diff_bpm0l04Y_mean vs run
χ² / ndf 58.4 / 58
p0 6.282 ± 1.932
pull
Entries 59
Mean 225.8
Std Dev 195.1

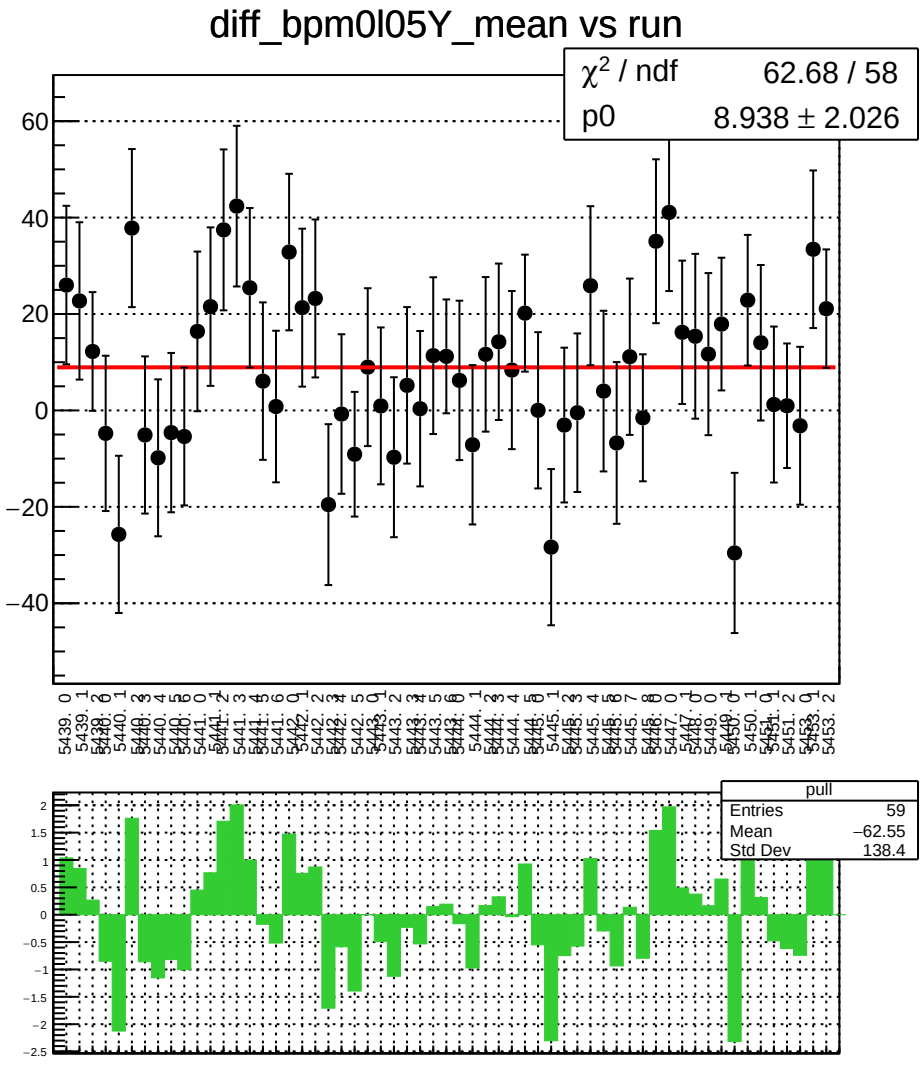

pull1D
Entries 59
Mean −0.007978
Std Dev 0.9949

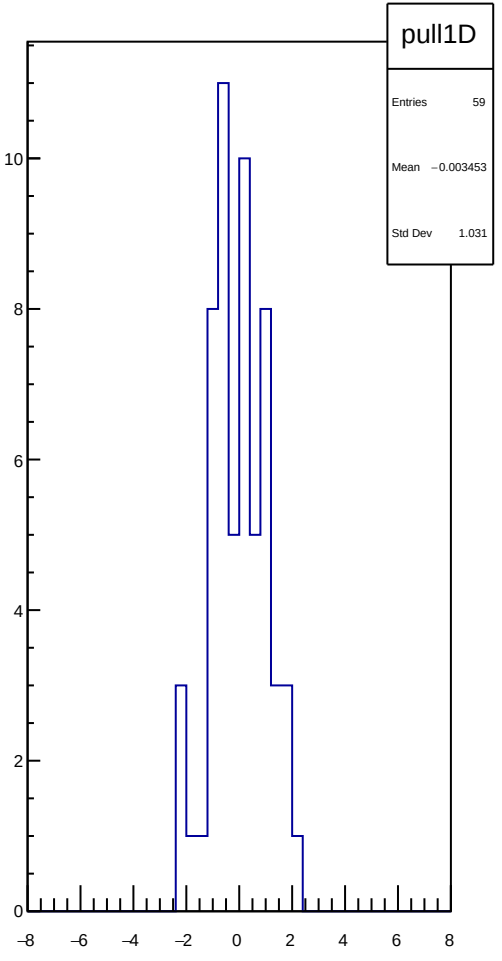

diff_bpm0l04Y_rms vs run
χ² / ndf 1181 / 58
p0 1482 ± 1.366
1600
1550
1500
1450
1400

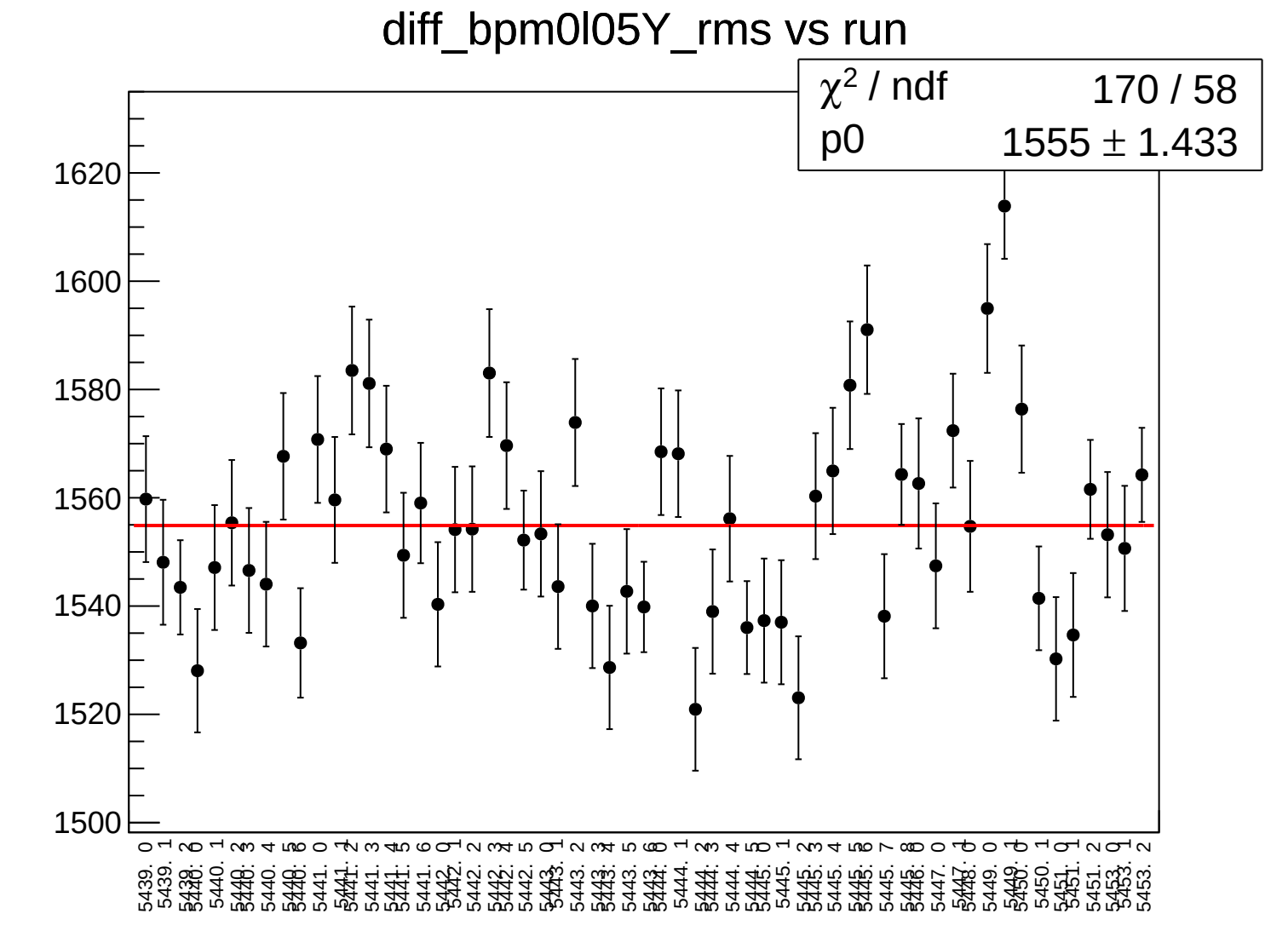

diff_bpm0l05X_mean vs run
χ² / ndf 48.37 / 58
p0 −3.775 ± 8.113
pull
Entries 59
Mean 46.89
Std Dev 92.91

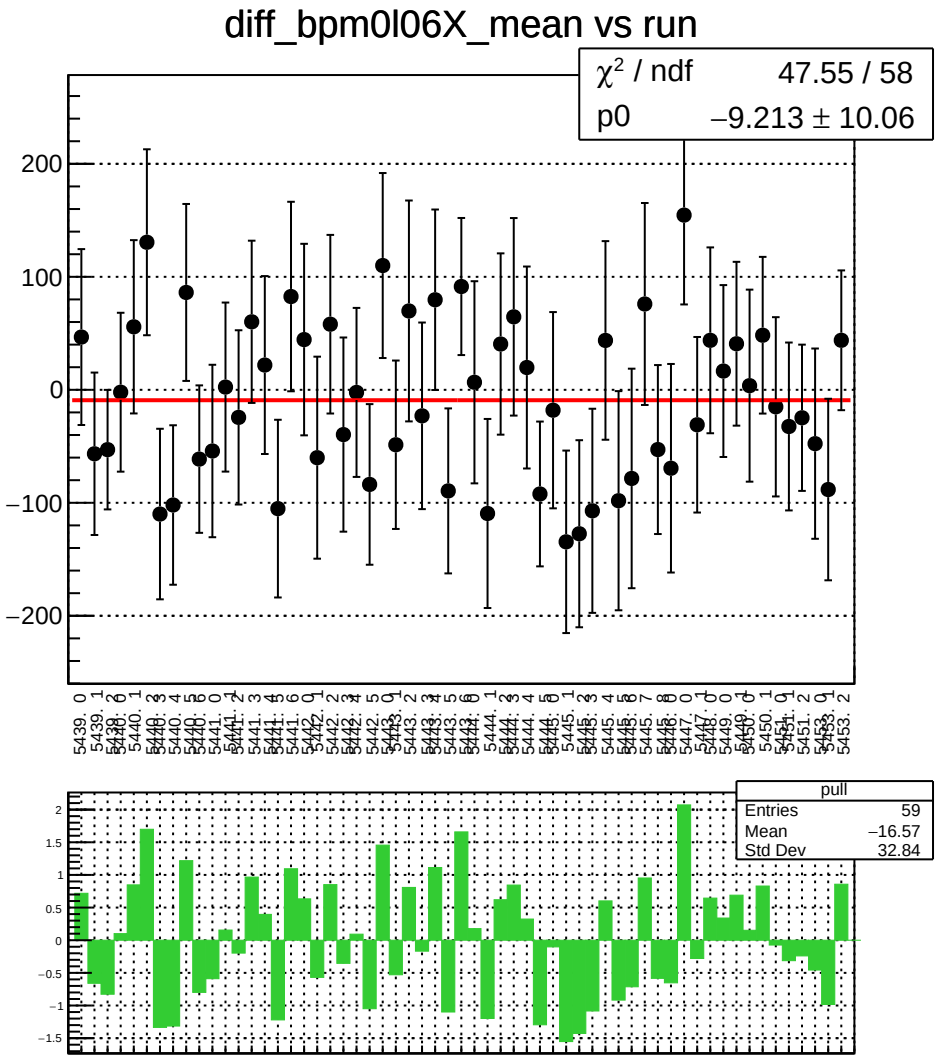

pull1D
Entries 59
Mean 0.002801
Std Dev 0.9054

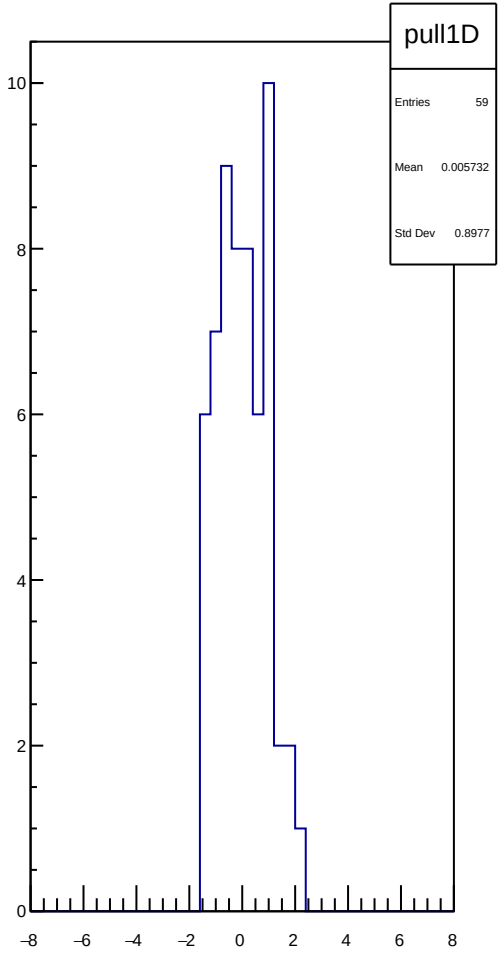

diff_bpm0l05X_rms vs run
χ² / ndf 8050 / 58
p0 6205 ± 5.737
7500
7000
6500
6000
5500

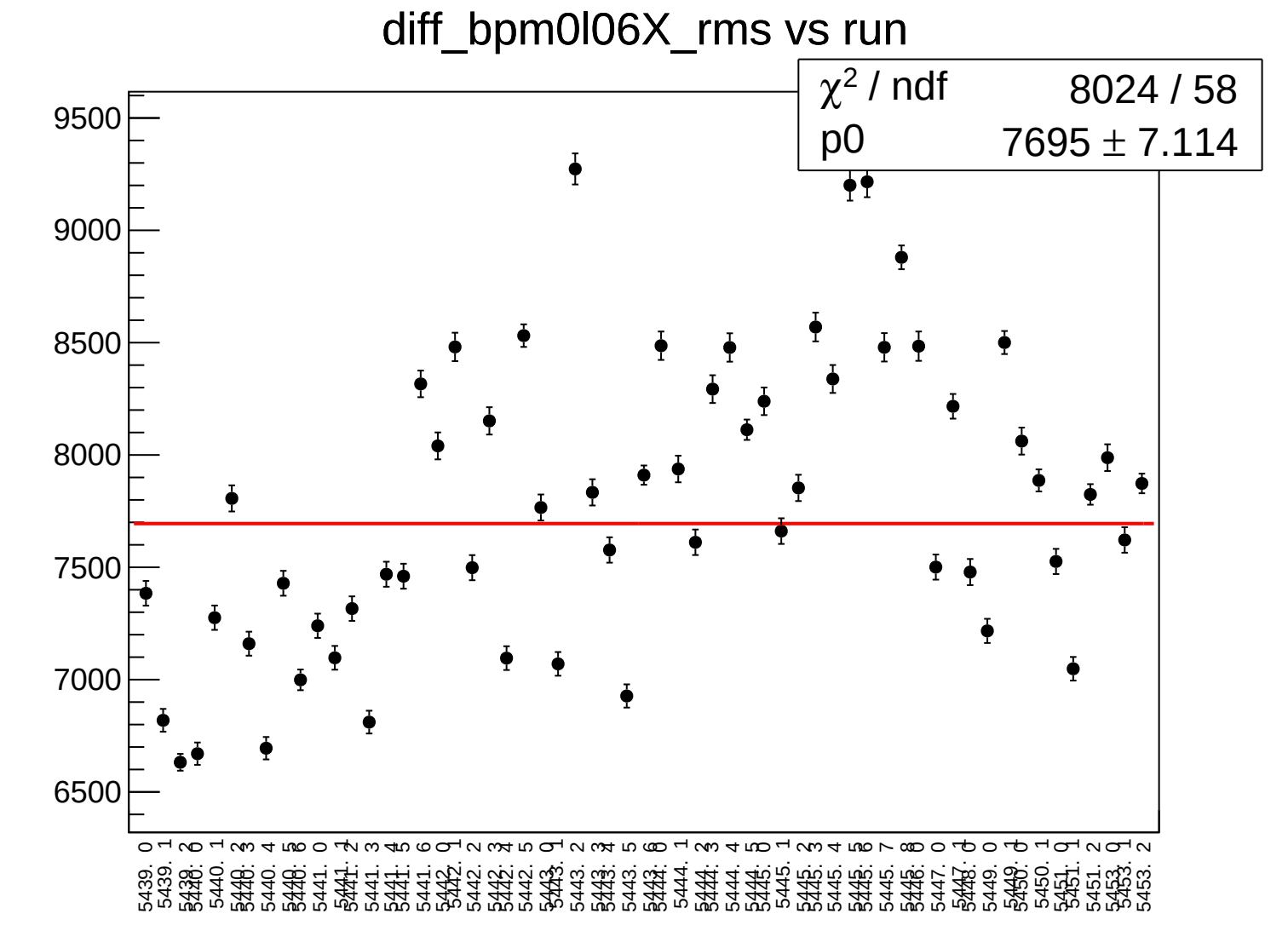

diff_bpm0l05Y_mean vs run
$\chi^2$ / ndf 62.68 / 58
p0 8.938 ± 2.026
pull
Entries 59
Mean −62.55
Std Dev 138.4

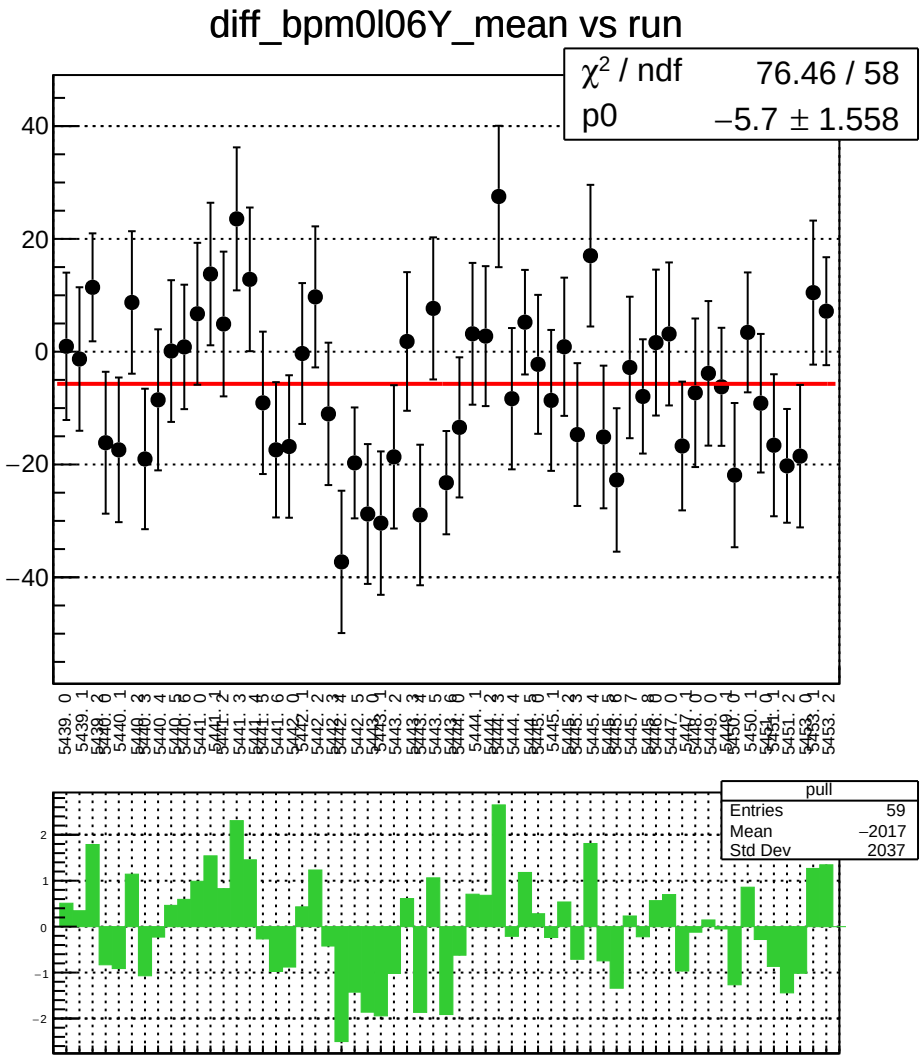

pull1D
Entries 59
Mean −0.003453
Std Dev 1.031

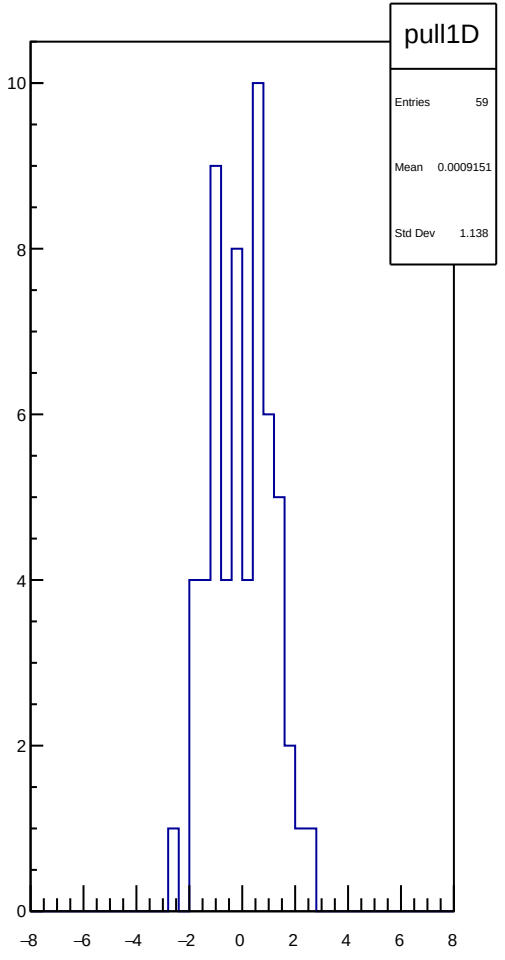

diff_bpm0l05Y_rms vs run
χ² / ndf 170 / 58
p0 1555 ± 1.433
1620
1600
1580
1560
1540
1520
1500

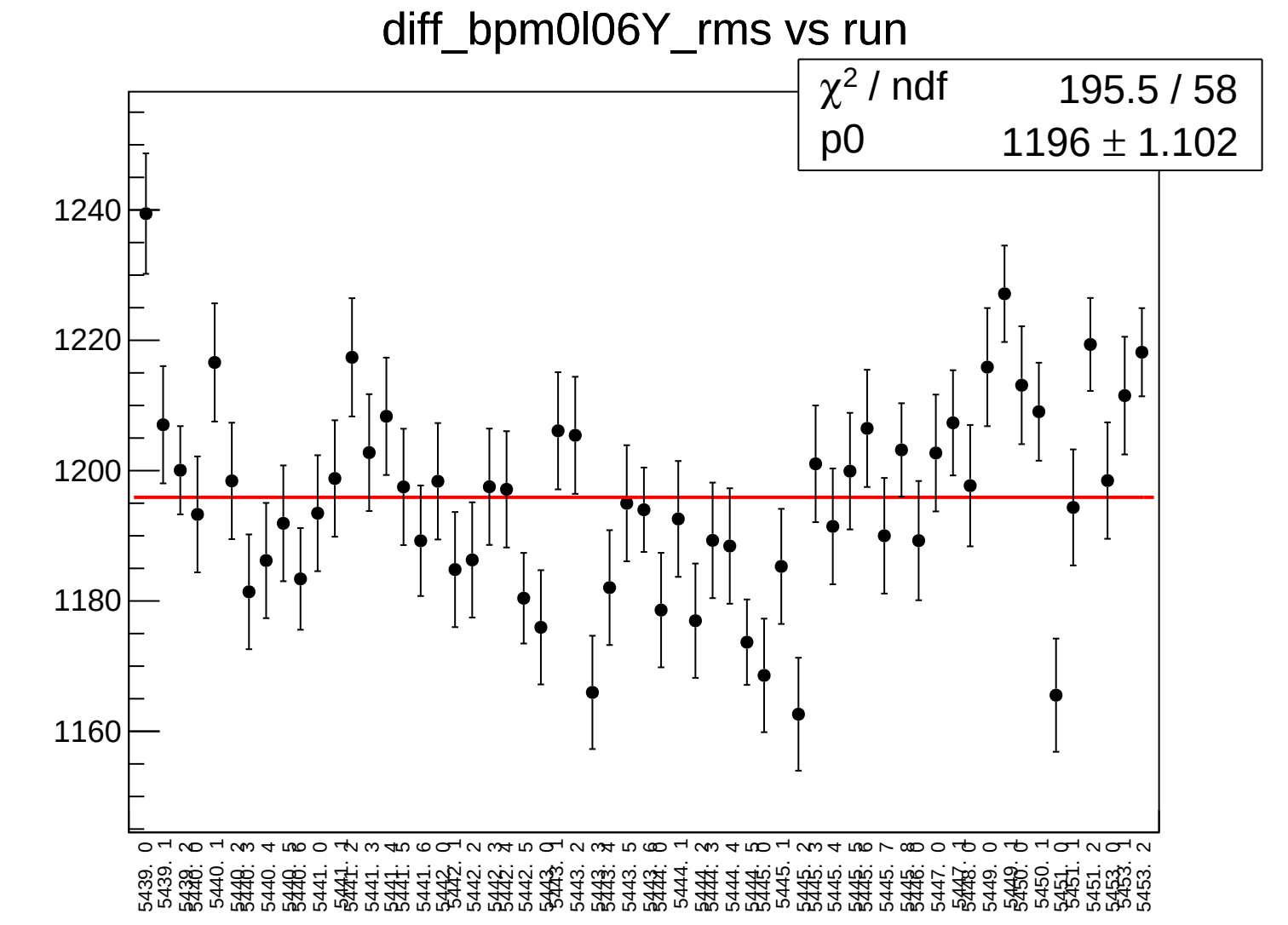

diff_bpm0l06X_mean vs run
χ² / ndf 47.55 / 58
p0 −9.213 ± 10.06
pull
Entries 59
Mean −16.57
Std Dev 32.84

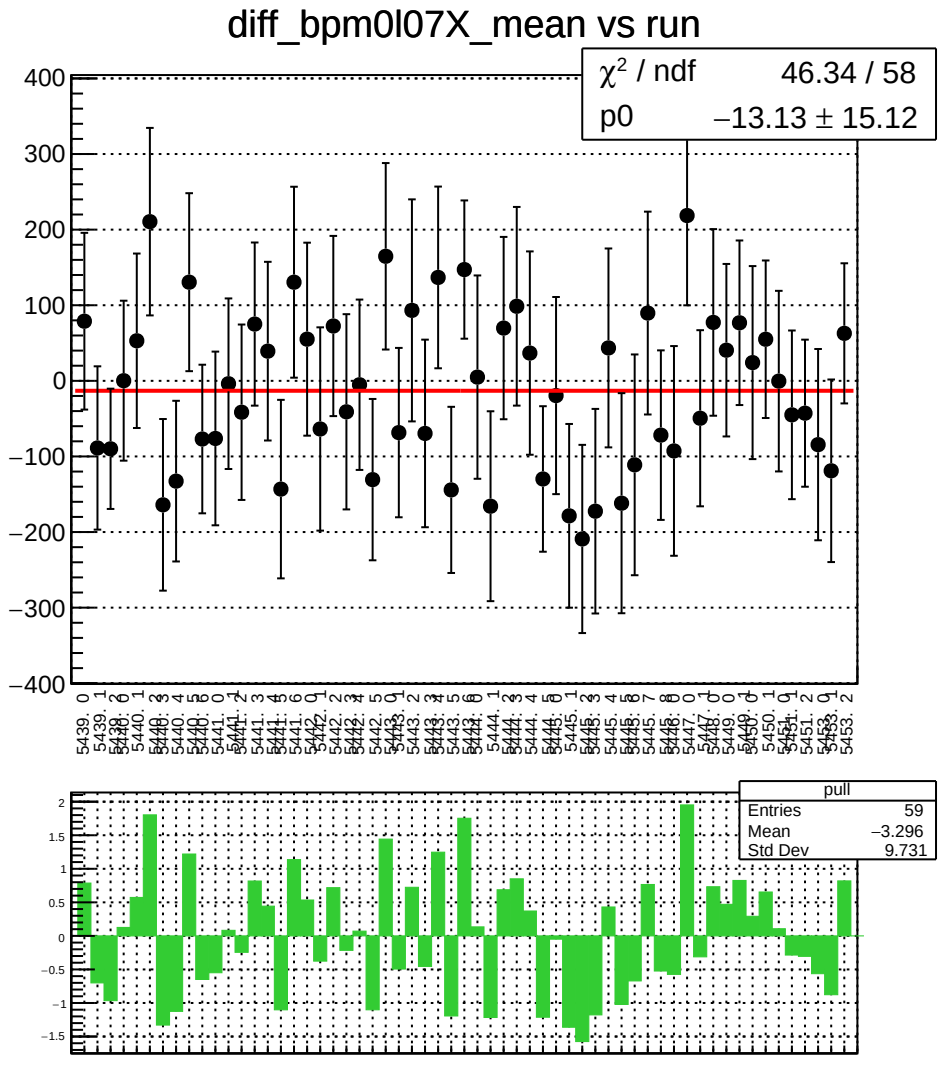

pull1D
Entries 59
Mean 0.005732
Std Dev 0.8977

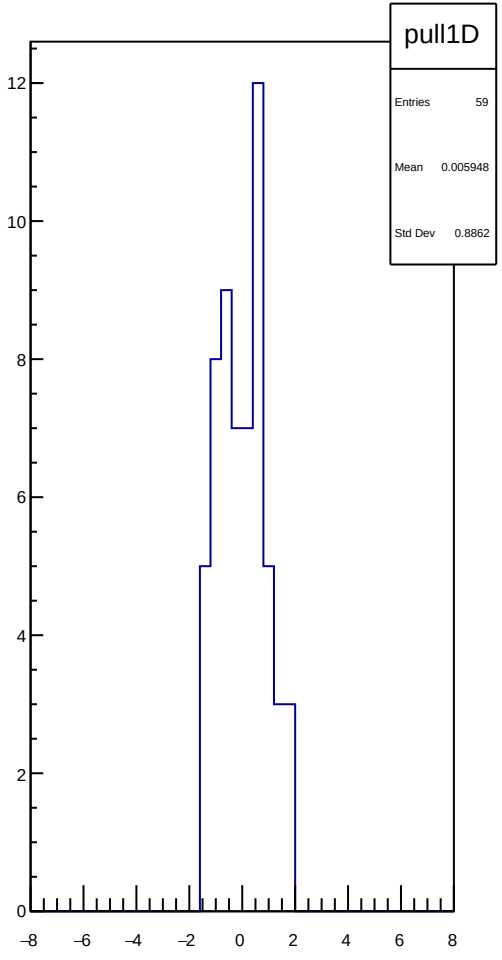

diff_bpm0l06X_rms vs run
χ² / ndf 8024 / 58
p0 7695 ± 7.114
9500
9000
8500
8000
7500
7000
6500

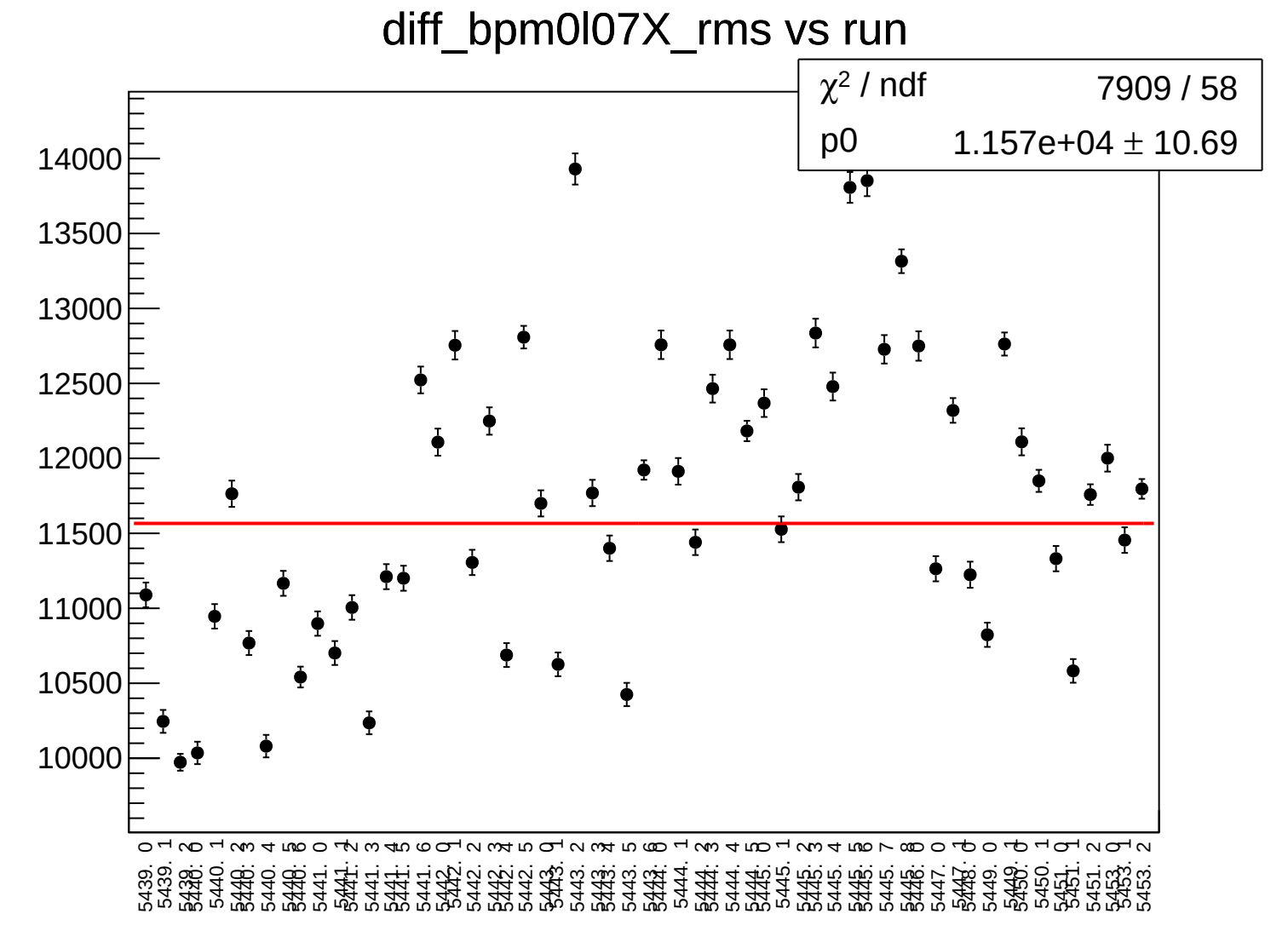

diff_bpm0l06Y_mean vs run
χ² / ndf 76.46 / 58
p0 −5.7 ± 1.558
pull
Entries 59
Mean −2017
Std Dev 2037

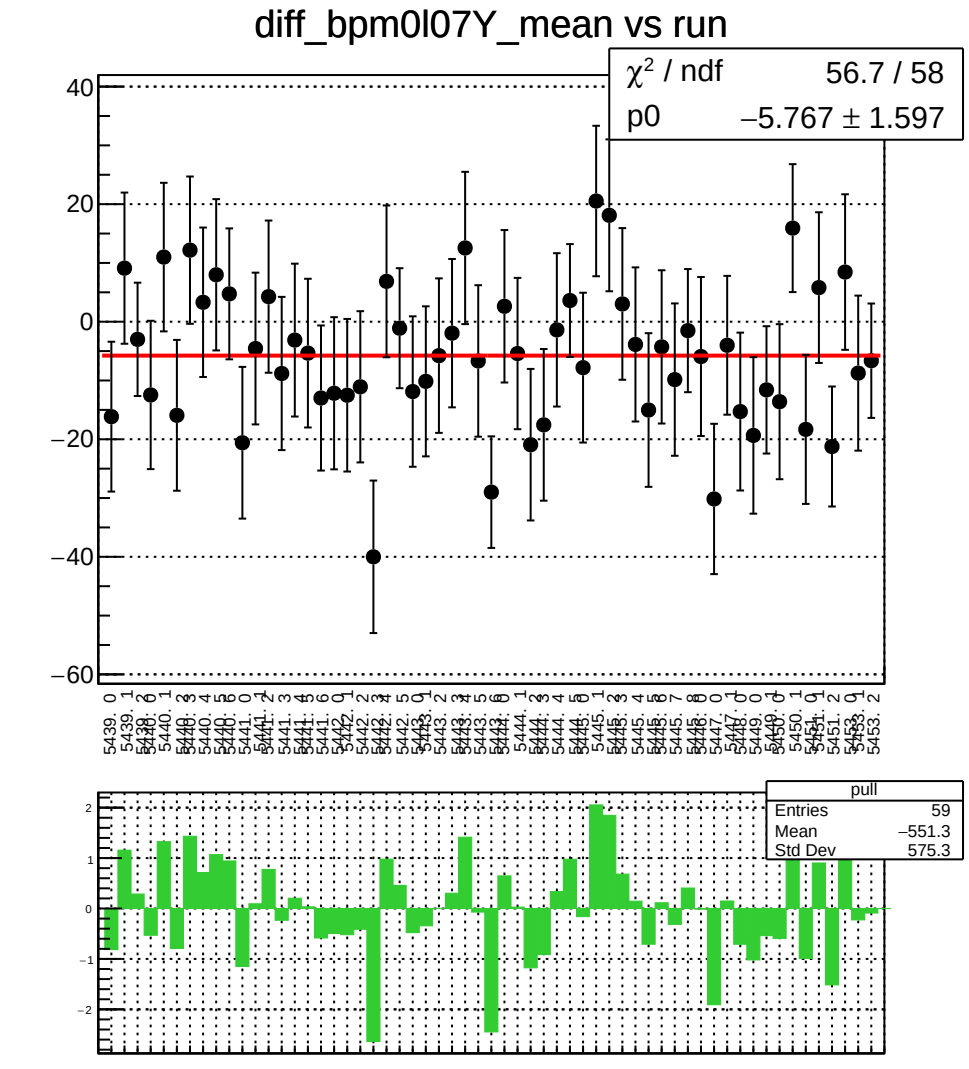

pull1D
Entries 59
Mean 0.0009151
Std Dev 1.138

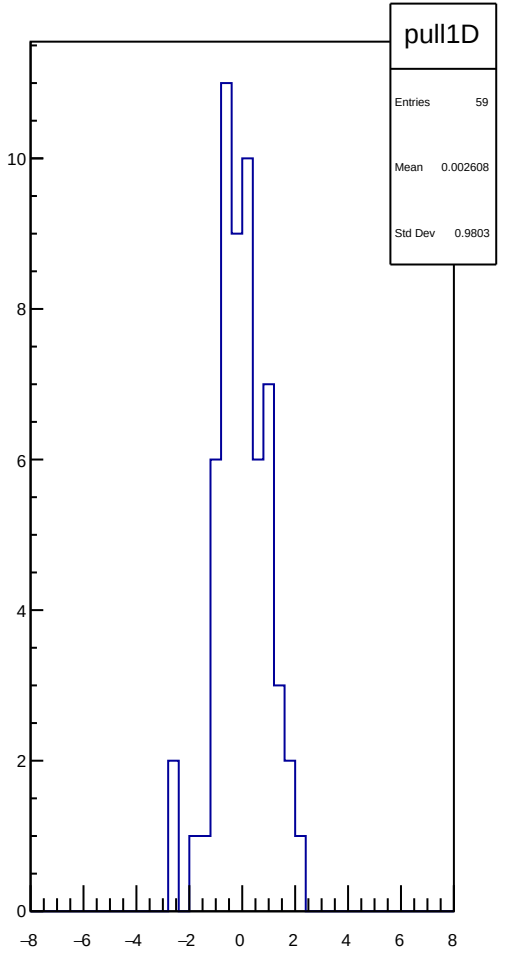

diff_bpm0l06Y_rms vs run
χ² / ndf 195.5 / 58
p0 1196 ± 1.102
1240
1220
1200
1180
1160

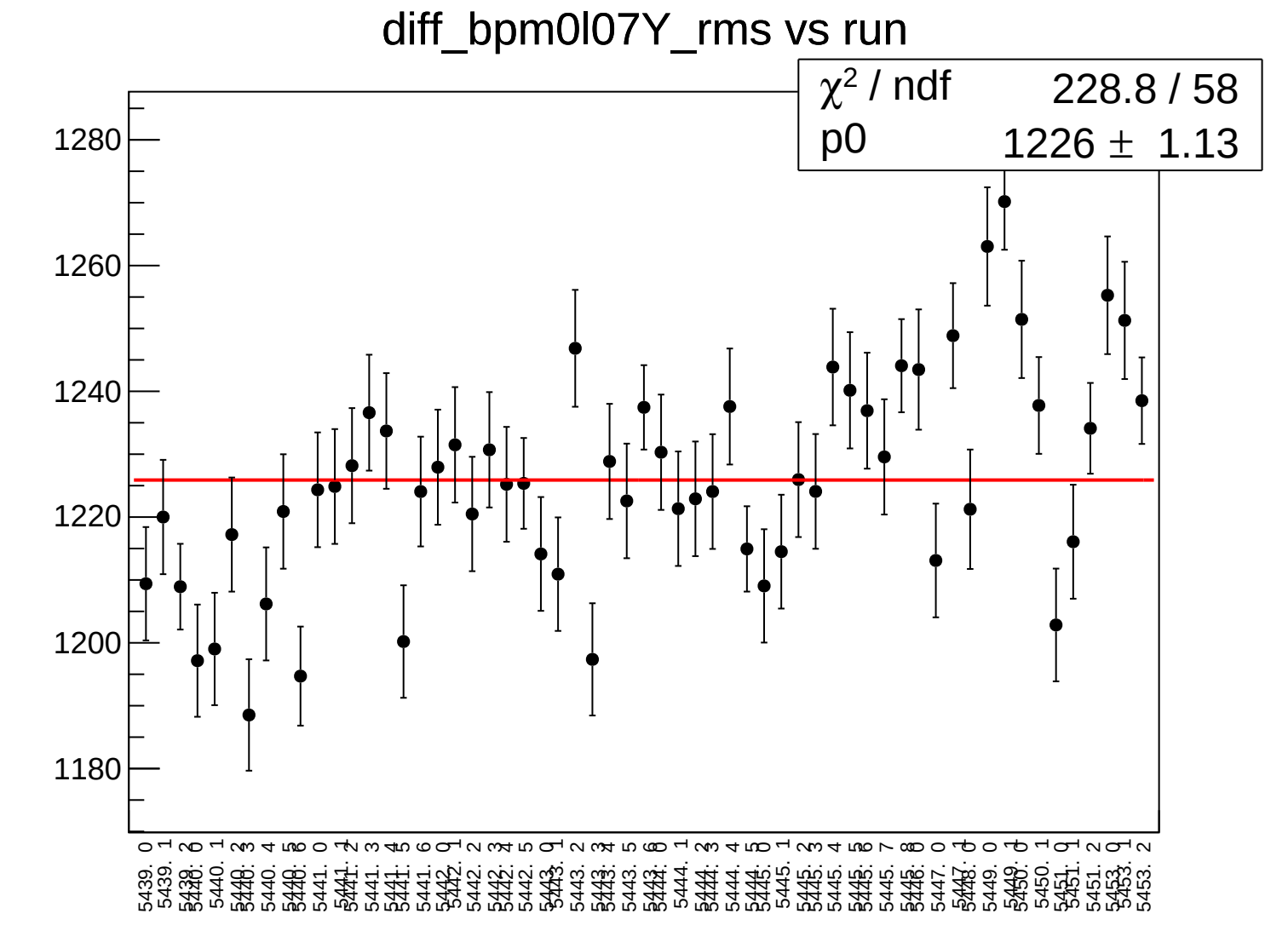

diff_bpm0l07X_mean vs run
χ² / ndf 46.34 / 58
p0 −13.13 ± 15.12
pull
Entries 59
Mean −3.296
Std Dev 9.731

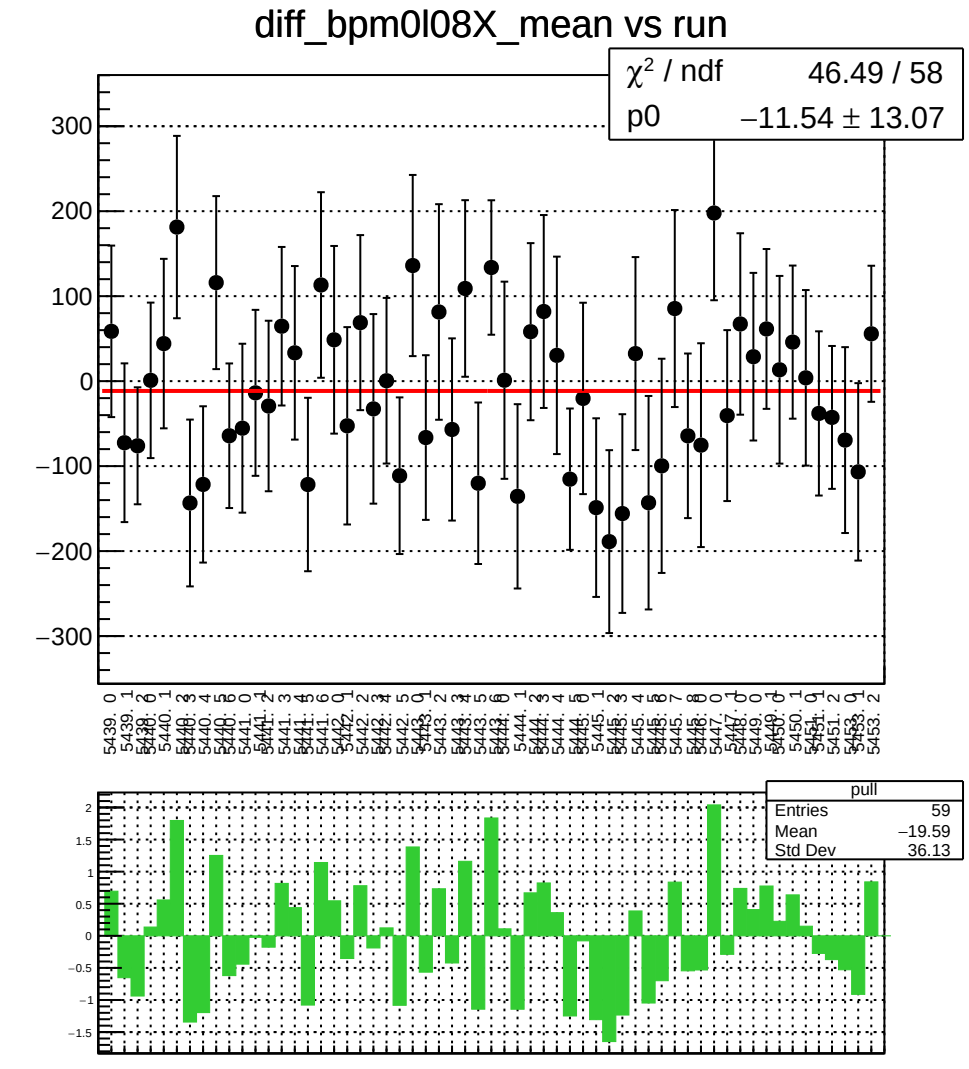

pull1D
Entries 59
Mean 0.005948
Std Dev 0.8862

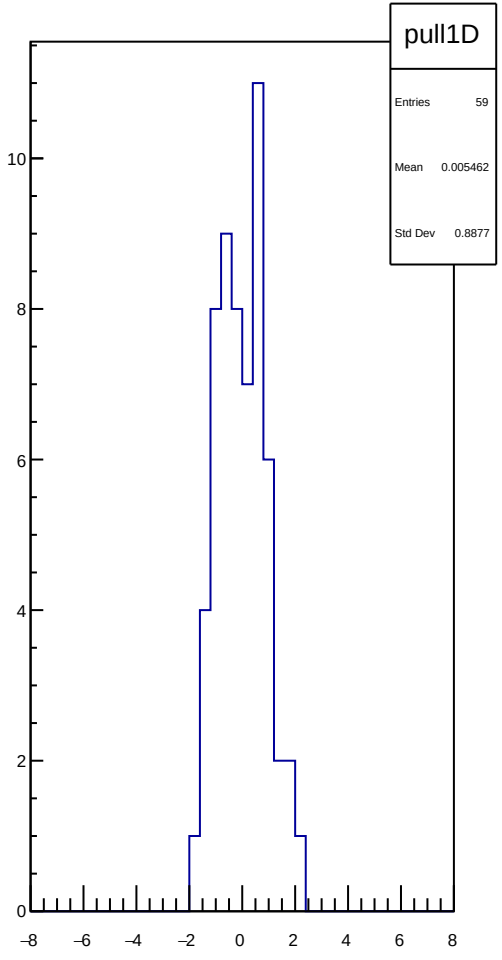

diff_bpm0l07X_rms vs run
χ² / ndf 7909 / 58
p0 1.157e+04 ± 10.69
14000
13500
13000
12500
12000
11500
11000
10500
10000

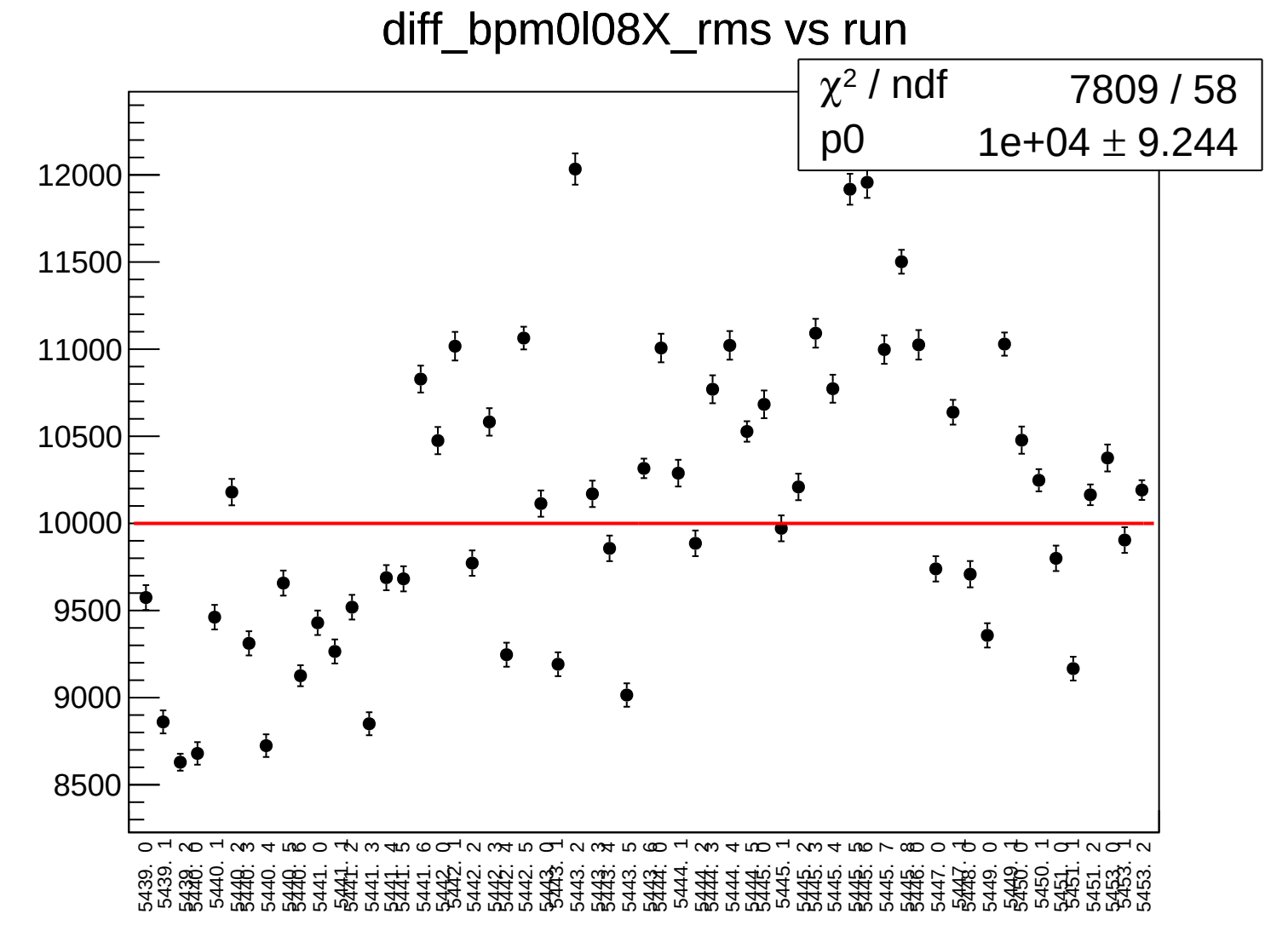

diff_bpm0l07Y_mean vs run
χ² / ndf 56.7 / 58
p0 −5.767 ± 1.597
pull
Entries 59
Mean −551.3
Std Dev 575.3

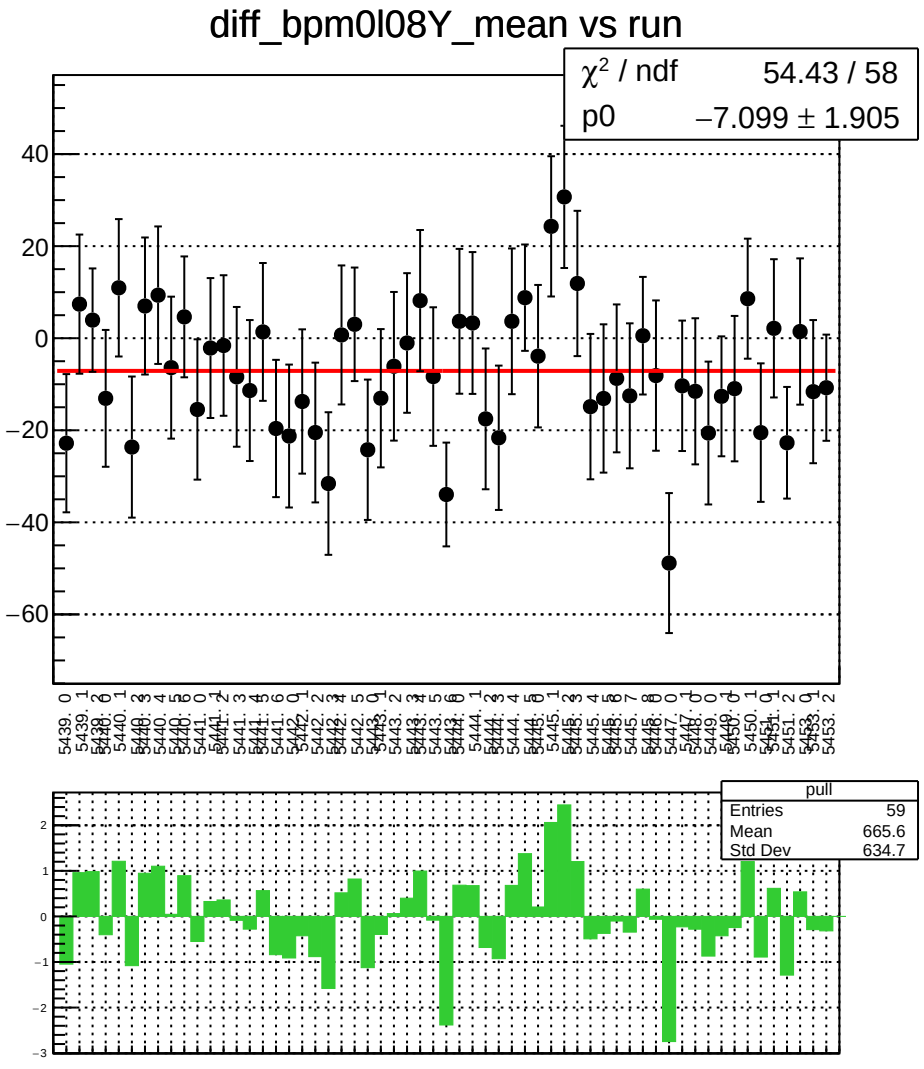

pull1D
Entries 59
Mean 0.002608
Std Dev 0.9803

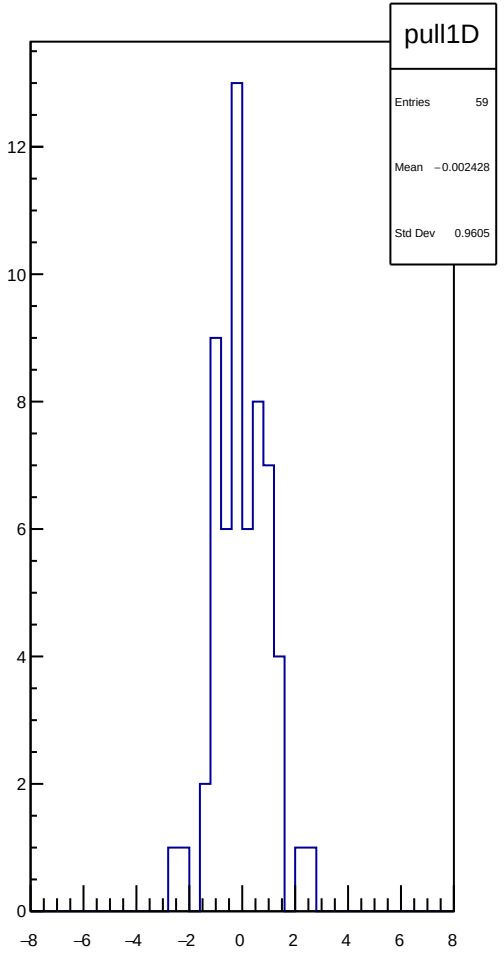

diff_bpm0l07Y_rms vs run
χ² / ndf 228.8 / 58
p0 1226 ± 1.13
1280
1260
1240
1220
1200
1180

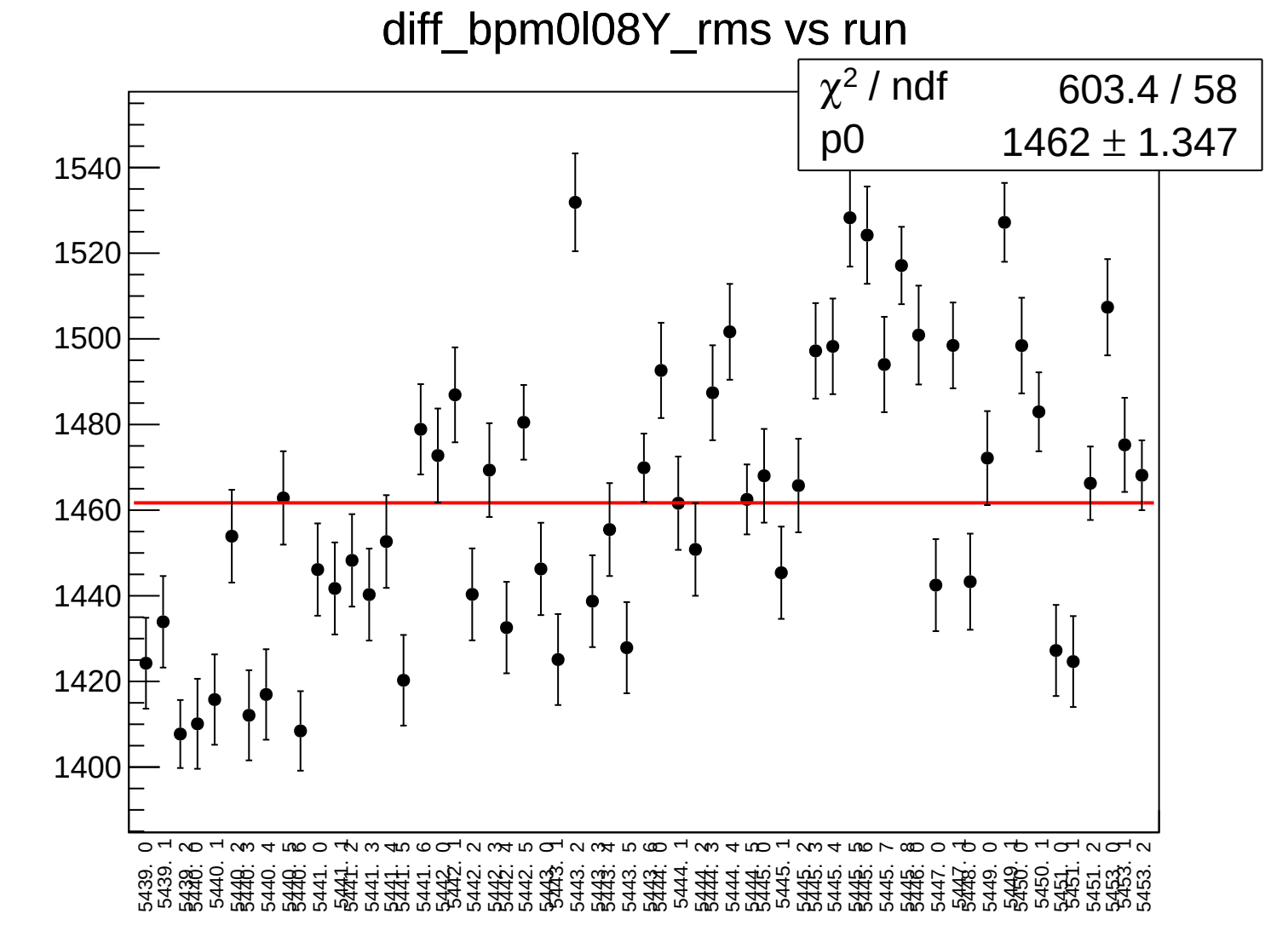

diff_bpm0l08X_mean vs run
χ² / ndf 46.49 / 58
p0 −11.54 ± 13.07
pull
Entries 59
Mean −19.59
Std Dev 36.13

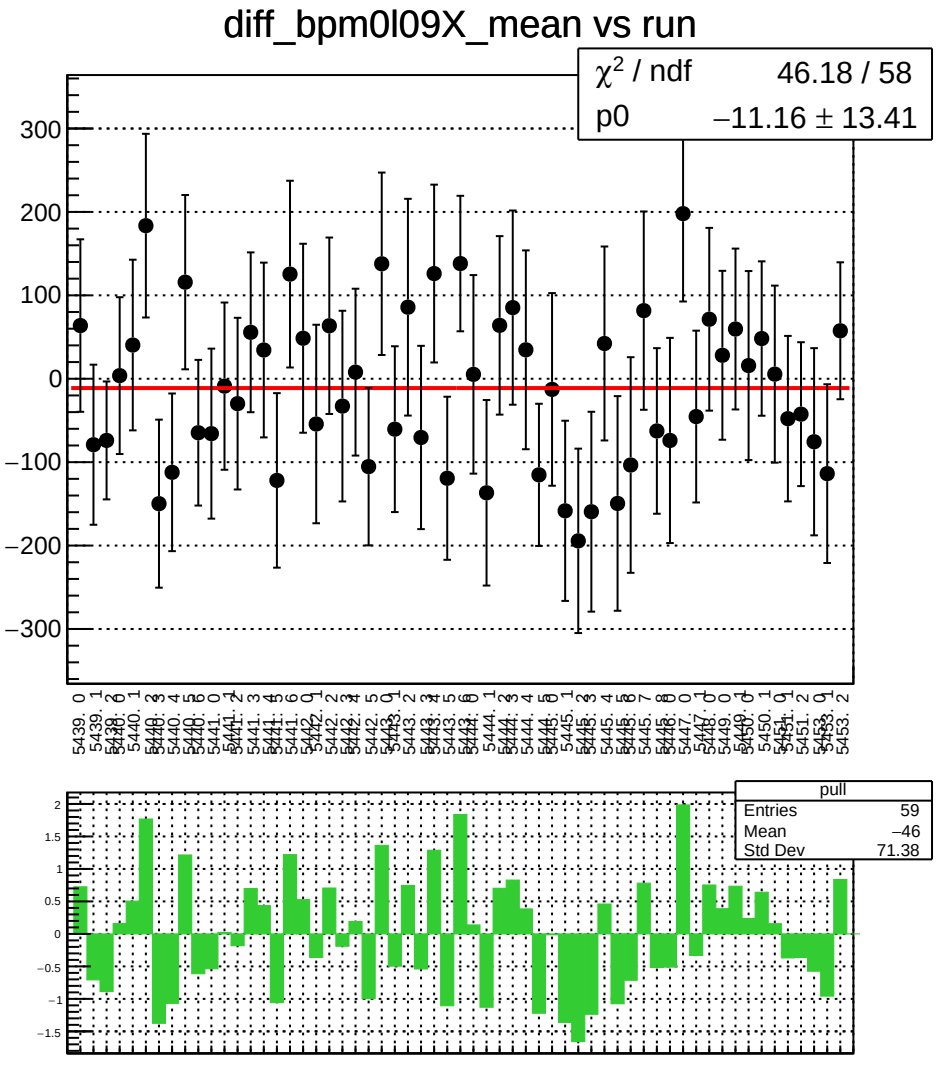

pull1D
Entries 59
Mean 0.005462
Std Dev 0.8877

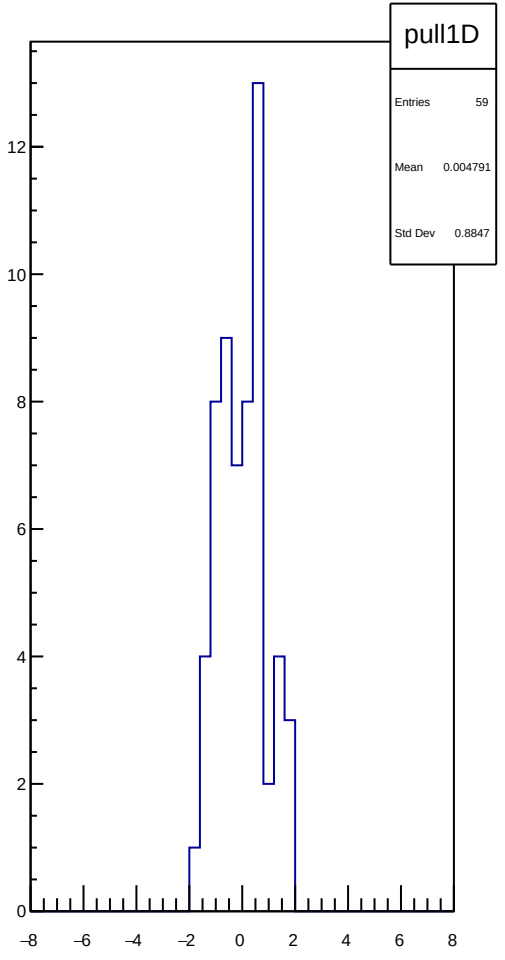

diff_bpm0l08X_rms vs run
χ² / ndf 7809 / 58
p0 1e+04 ± 9.244
12000
11500
11000
10500
10000
9500
9000
8500

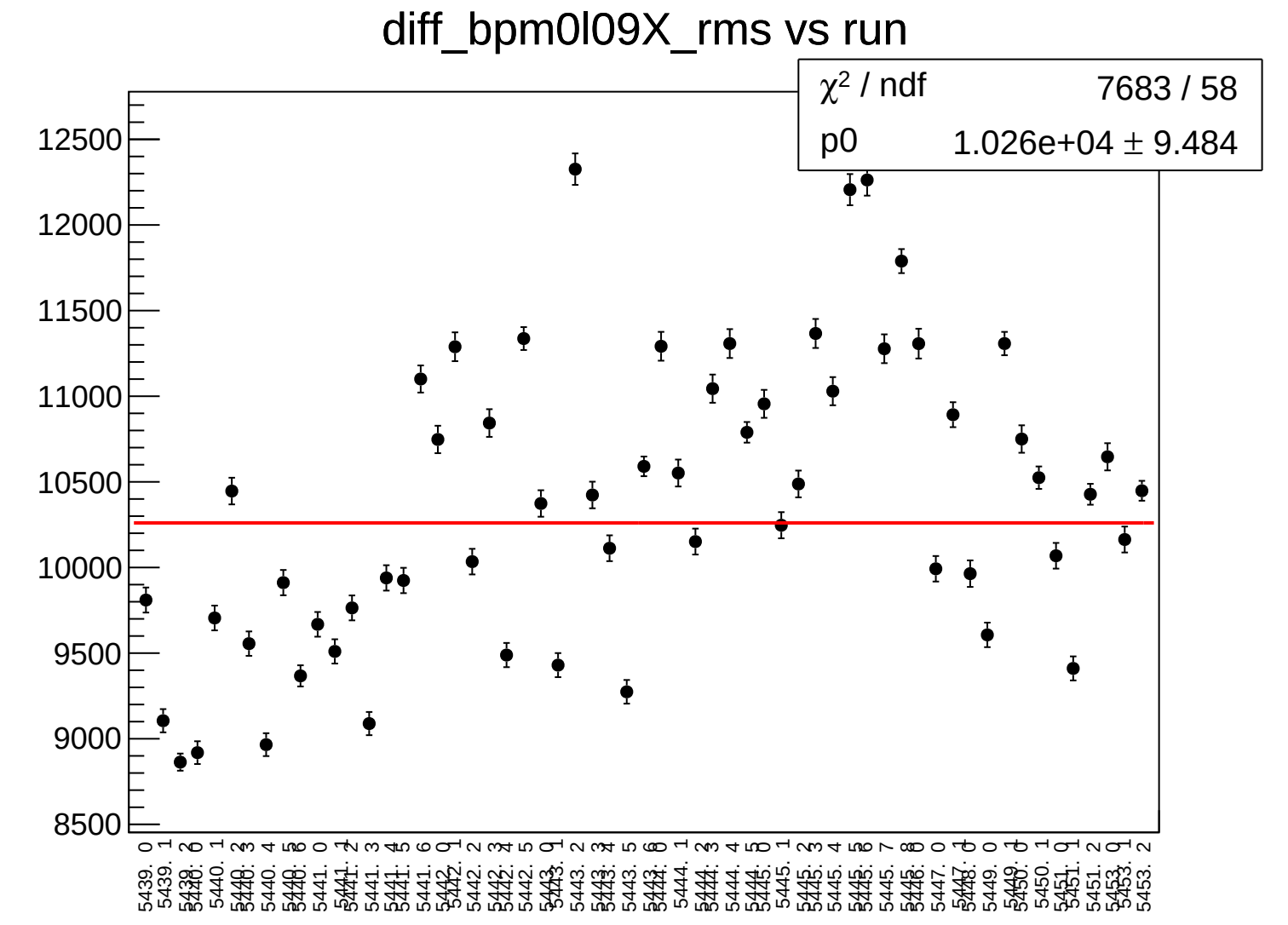

diff_bpm0l08Y_mean vs run
χ² / ndf 54.43 / 58
p0 −7.099 ± 1.905
pull
Entries 59
Mean 665.6
Std Dev 634.7

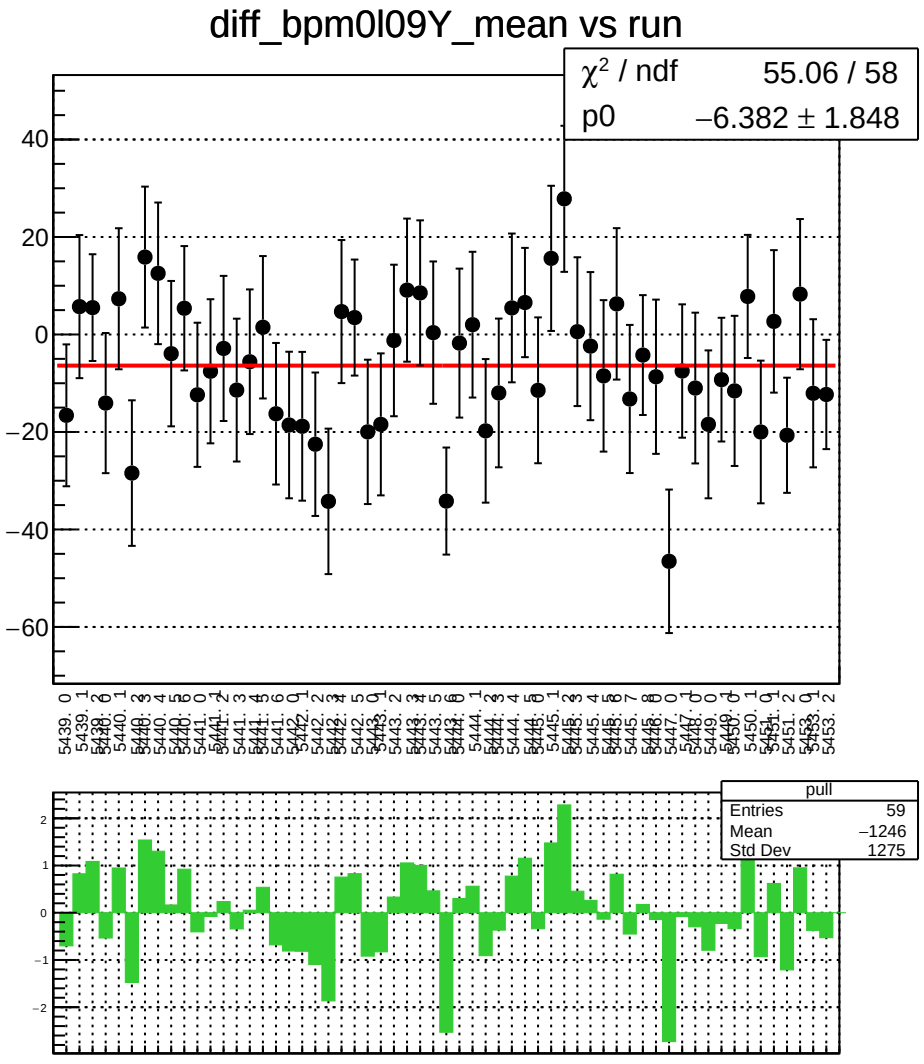

pull1D
Entries 59
Mean −0.002428
Std Dev 0.9605

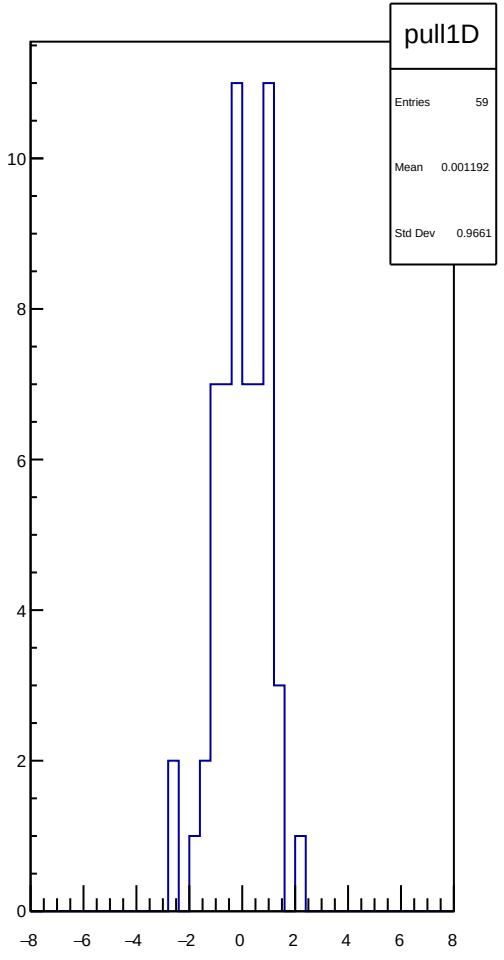

diff_bpm0l08Y_rms vs run
χ² / ndf 603.4 / 58
p0 1462 ± 1.347
1540
1520
1500
1480
1460
1440
1420
1400

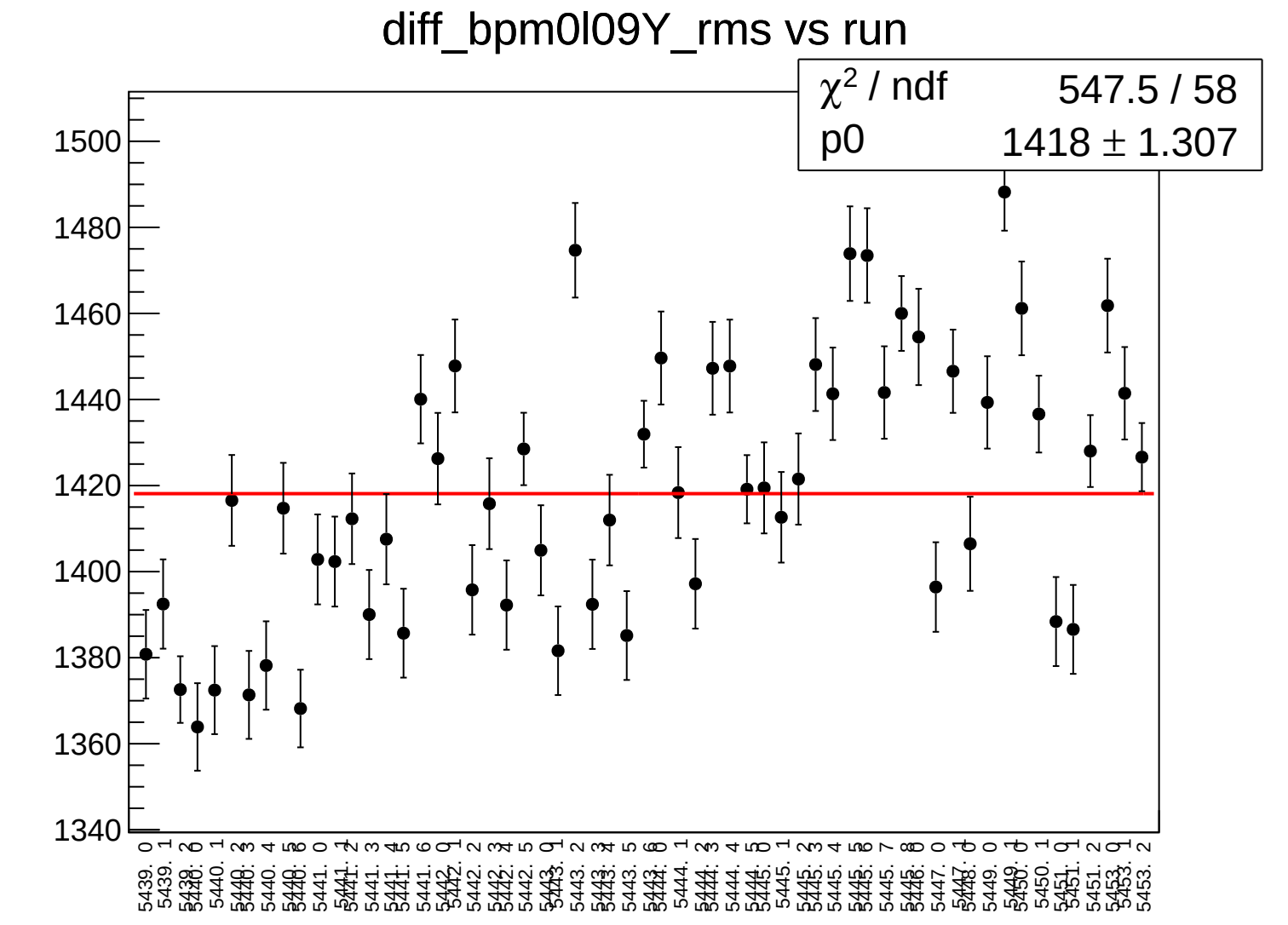

diff_bpm0l09X_mean vs run
$\chi^2$ / ndf 46.18 / 58
p0 −11.16 ± 13.41
pull
Entries 59
Mean −46
Std Dev 71.38

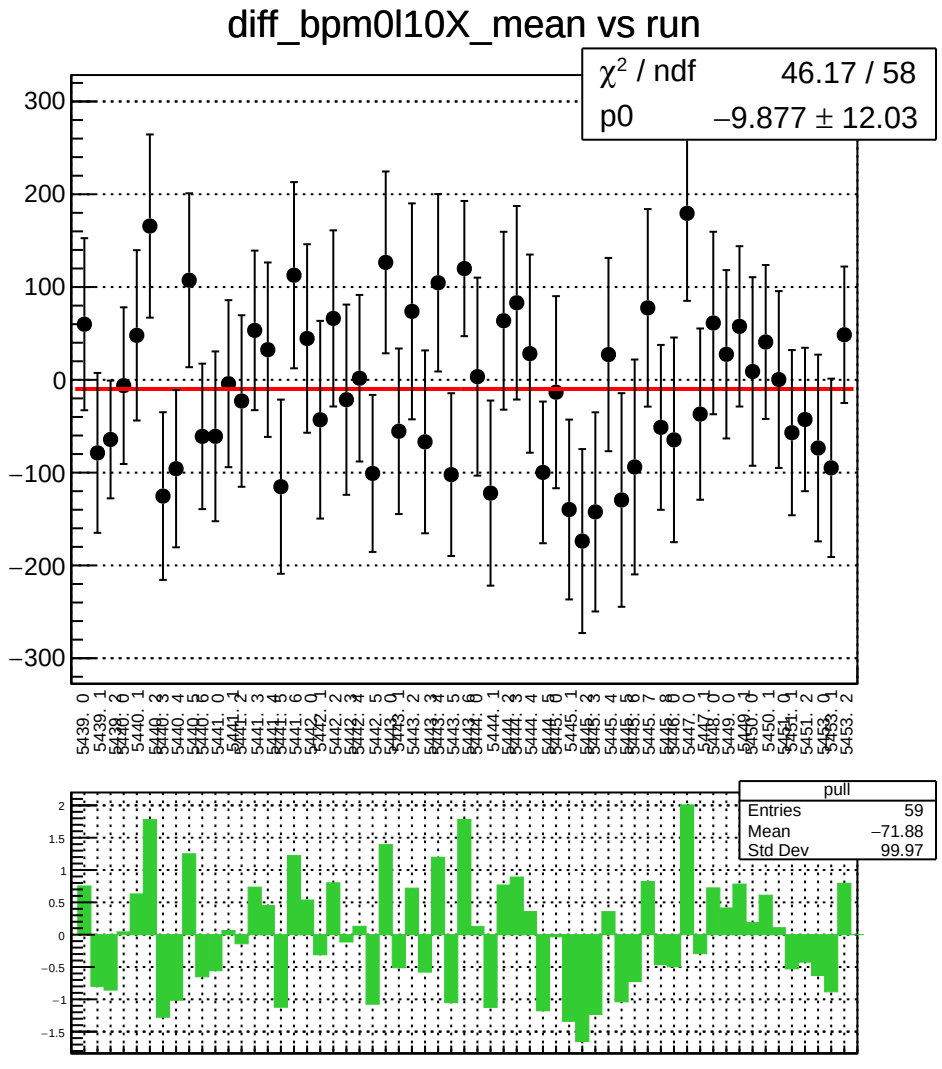

pull1D
Entries 59
Mean 0.004791
Std Dev 0.8847

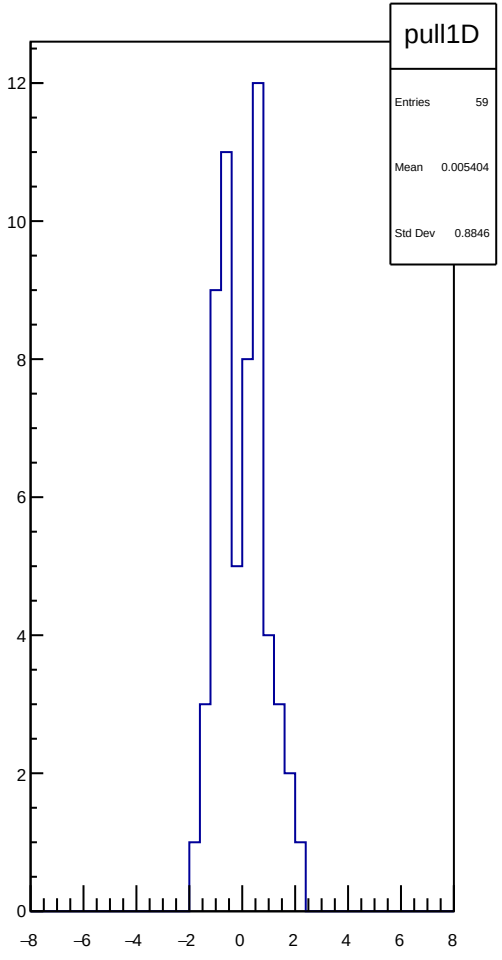

diff_bpm0l09X_rms vs run
χ² / ndf 7683 / 58
p0 1.026e+04 ± 9.484
12500
12000
11500
11000
10500
10000
9500
9000
8500

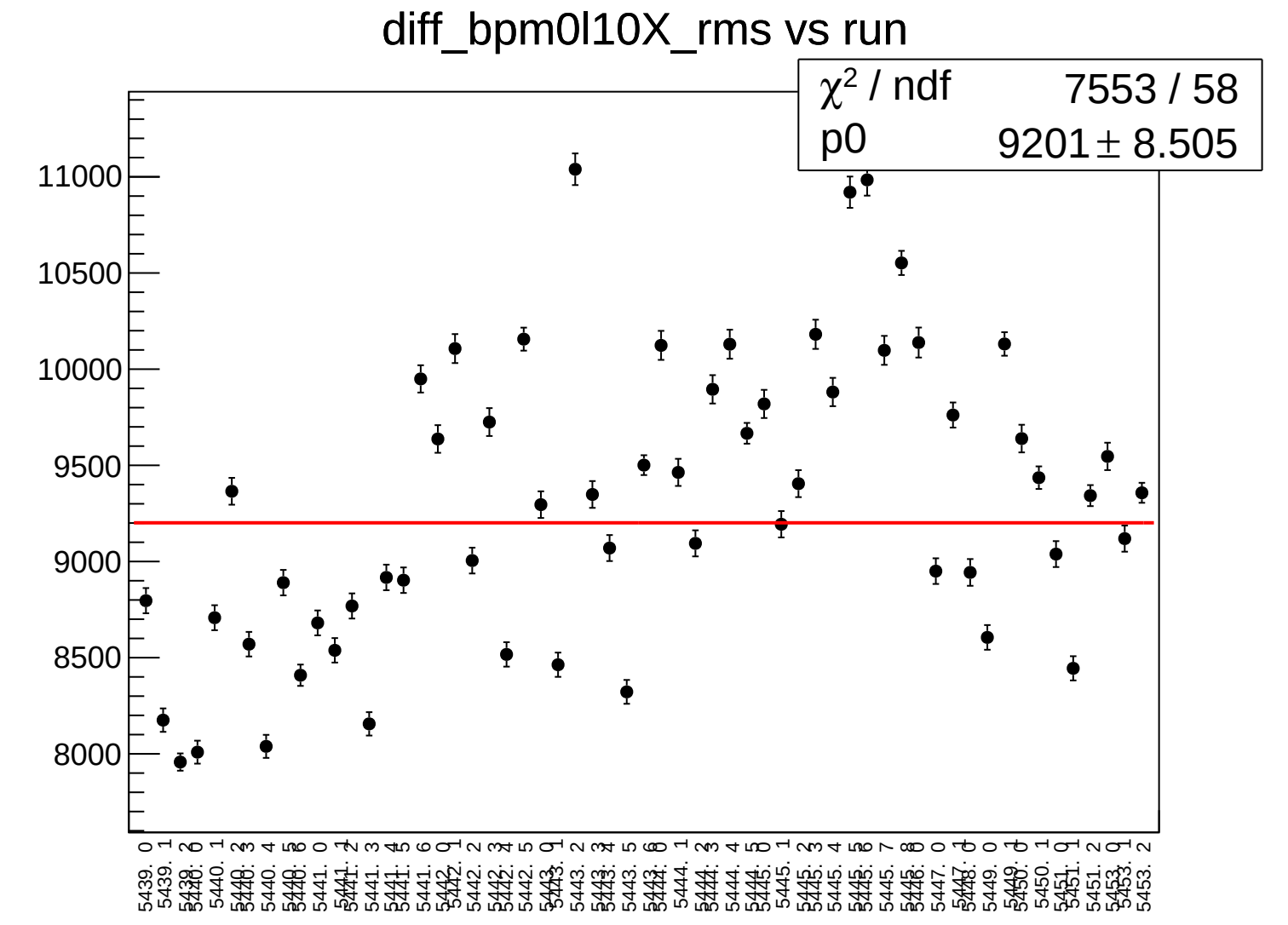

diff_bpm0l09Y_mean vs run
χ² / ndf 55.06 / 58
p0 −6.382 ± 1.848
pull
Entries 59
Mean −1246
Std Dev 1275

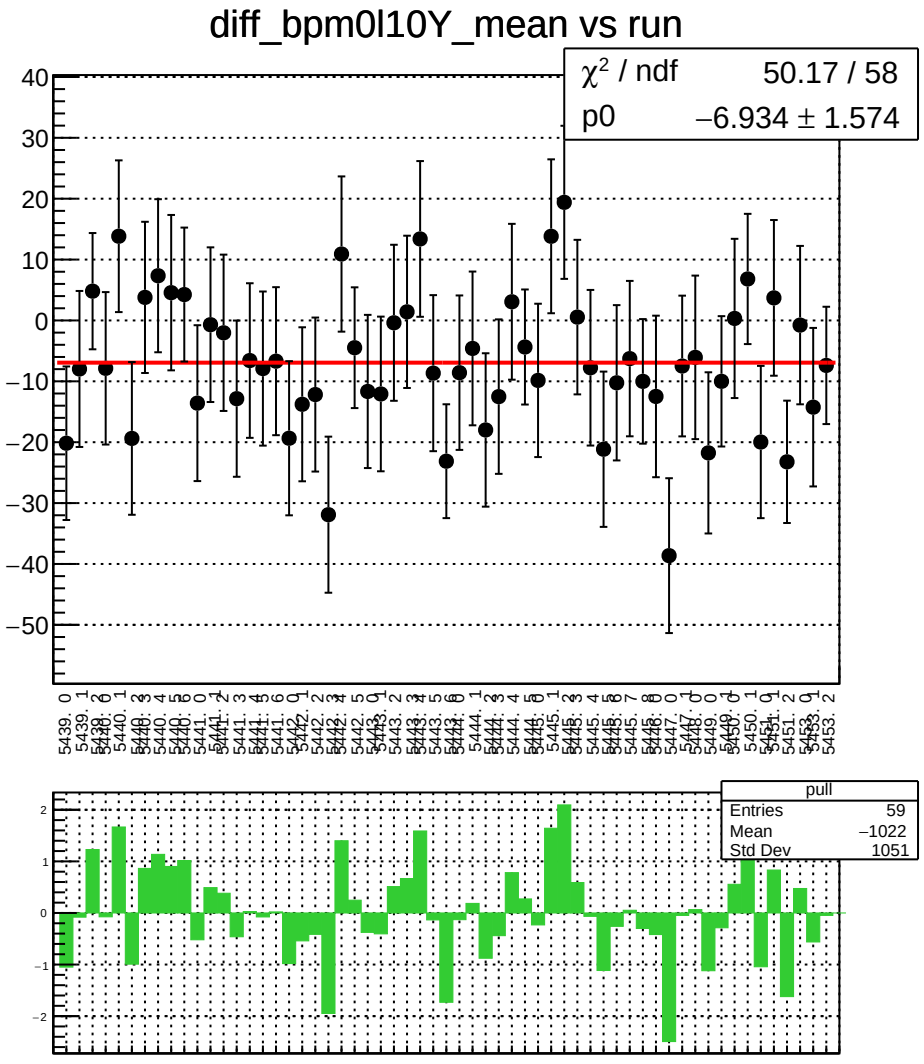

pull1D
Entries 59
Mean 0.001192
Std Dev 0.9661

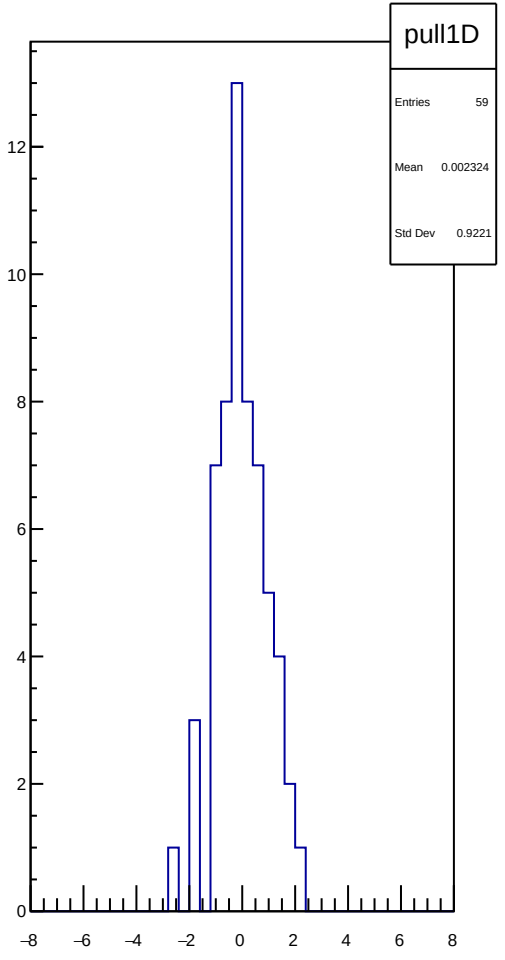

diff_bpm0l09Y_rms vs run
χ² / ndf 547.5 / 58
p0 1418 ± 1.307
1500
1480
1460
1440
1420
1400
1380
1360
1340

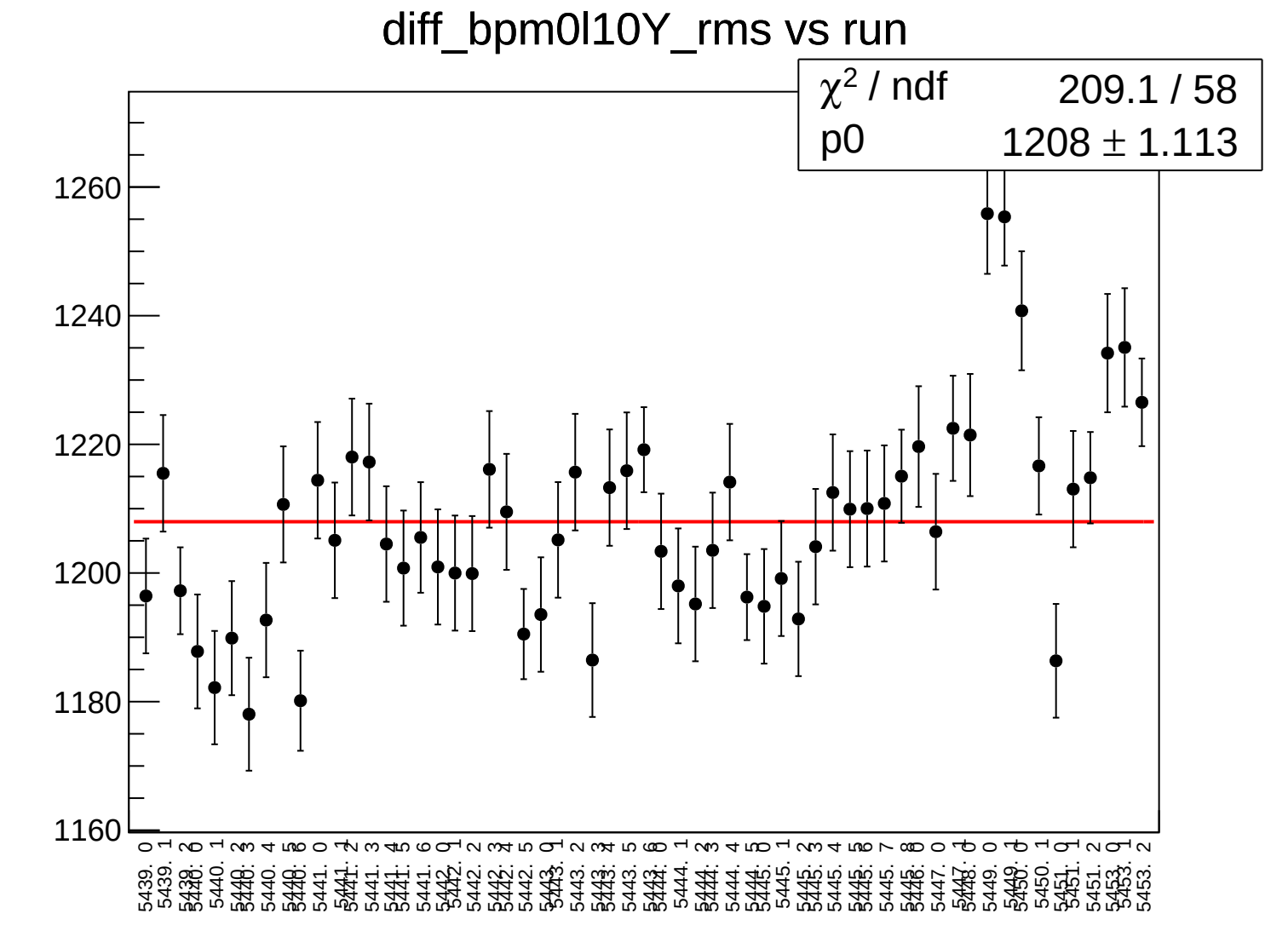

diff_bpm0l10X_mean vs run
χ² / ndf 46.17 / 58
p0 −9.877 ± 12.03
pull
Entries 59
Mean −71.88
Std Dev 99.97

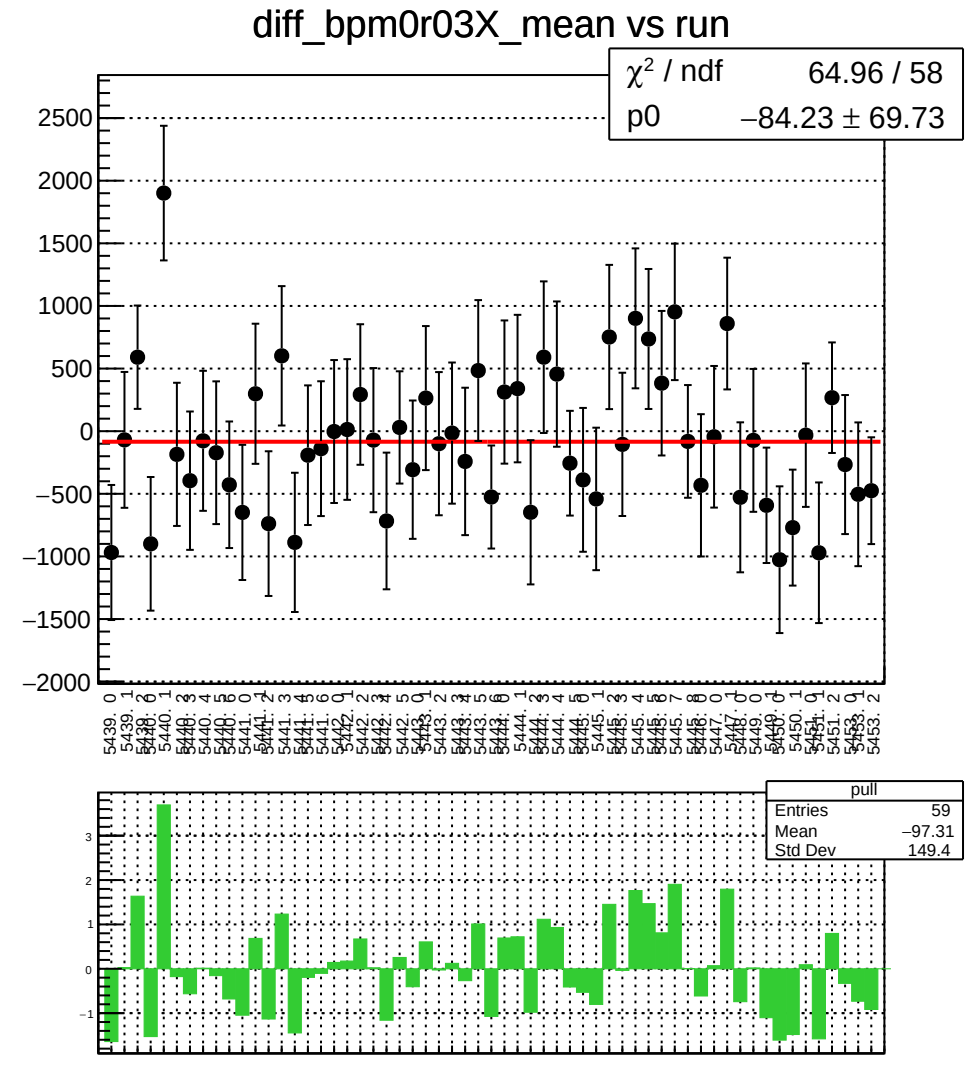

pull1D
Entries 59
Mean 0.005404
Std Dev 0.8846

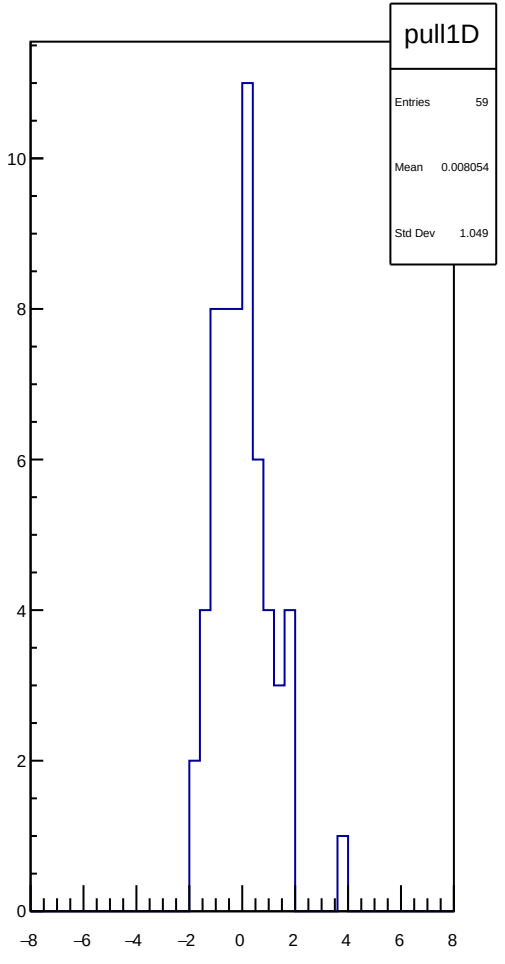

diff_bpm0l10X_rms vs run
χ² / ndf 7553 / 58
p0 9201 ± 8.505
11000
10500
10000
9500
9000
8500
8000

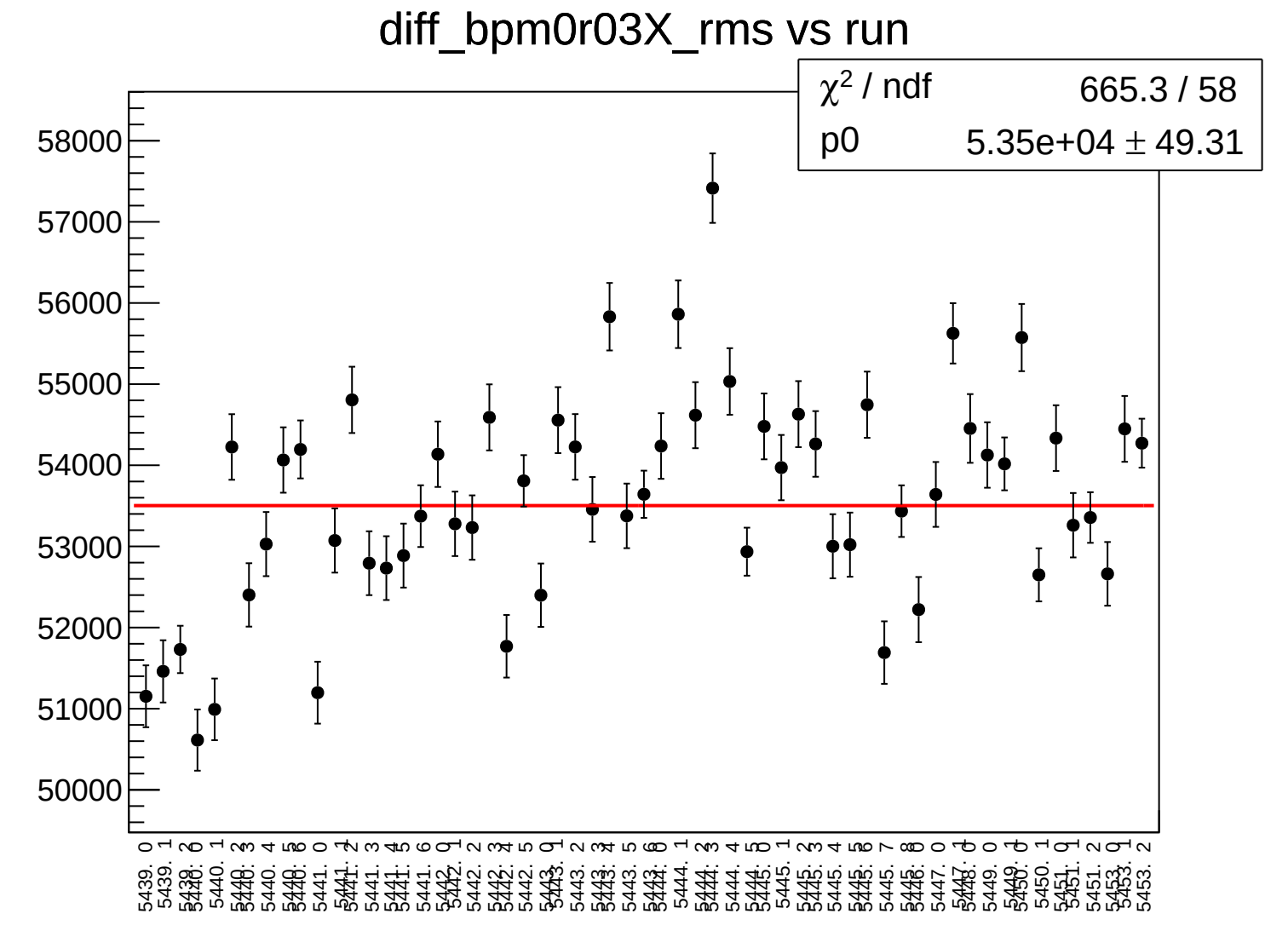

diff_bpm0l10Y_mean vs run
χ² / ndf 50.17 / 58
p0 −6.934 ± 1.574
pull
Entries 59
Mean −1022
Std Dev 1051

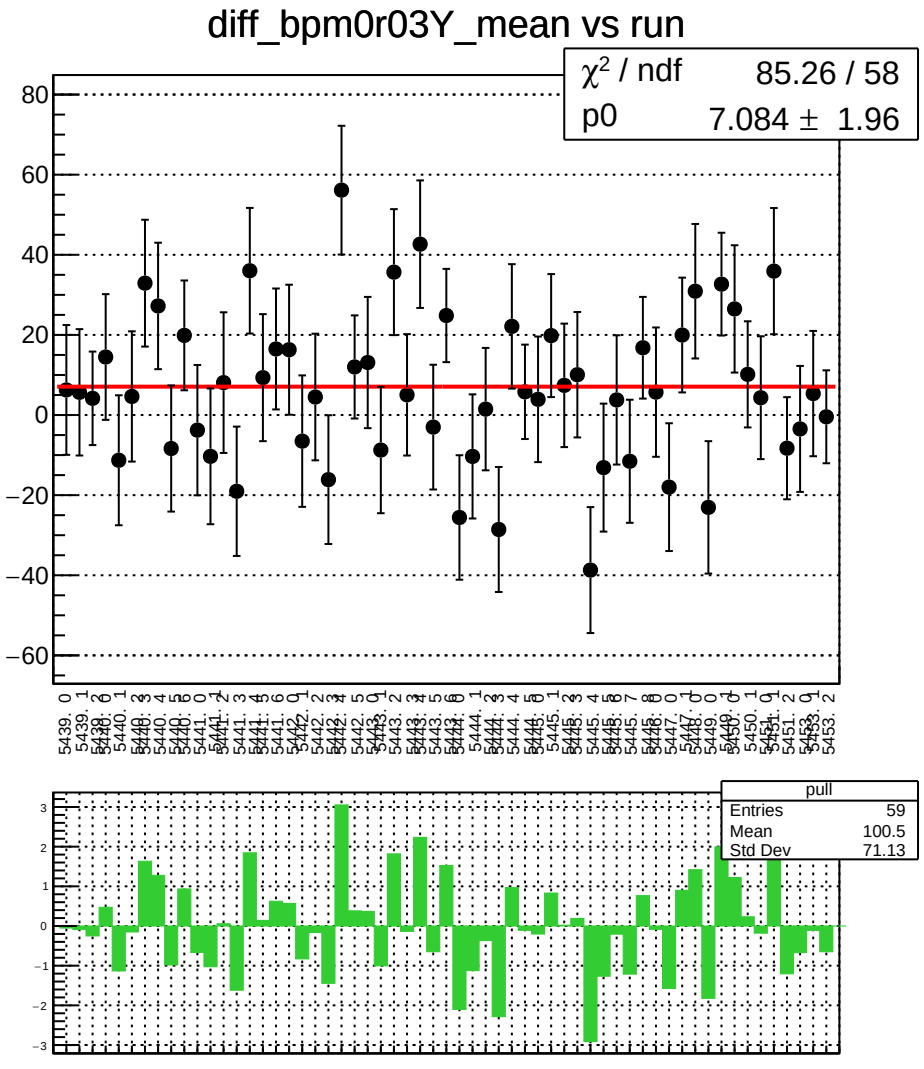

pull1D
Entries 59
Mean 0.002324
Std Dev 0.9221

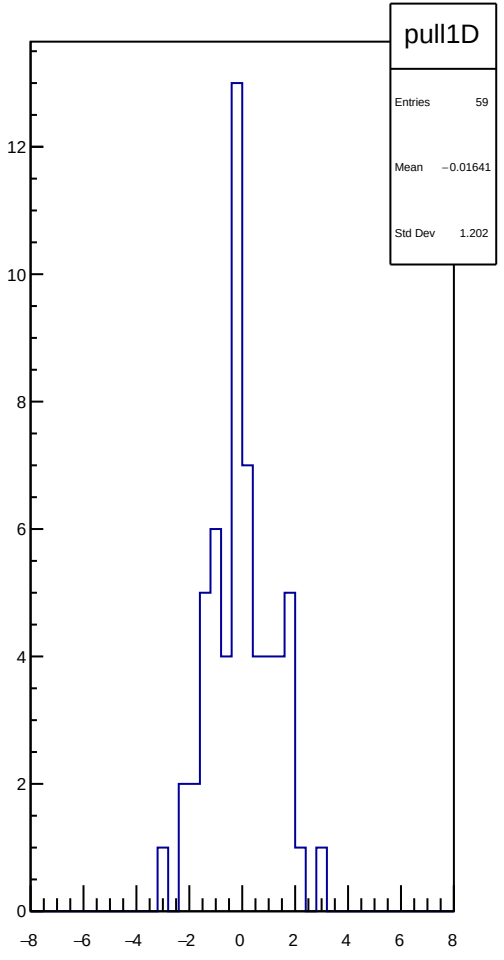

diff_bpm0l10Y_rms vs run
χ² / ndf 209.1 / 58
p0 1208 ± 1.113
1260
1240
1220
1200
1180
1160

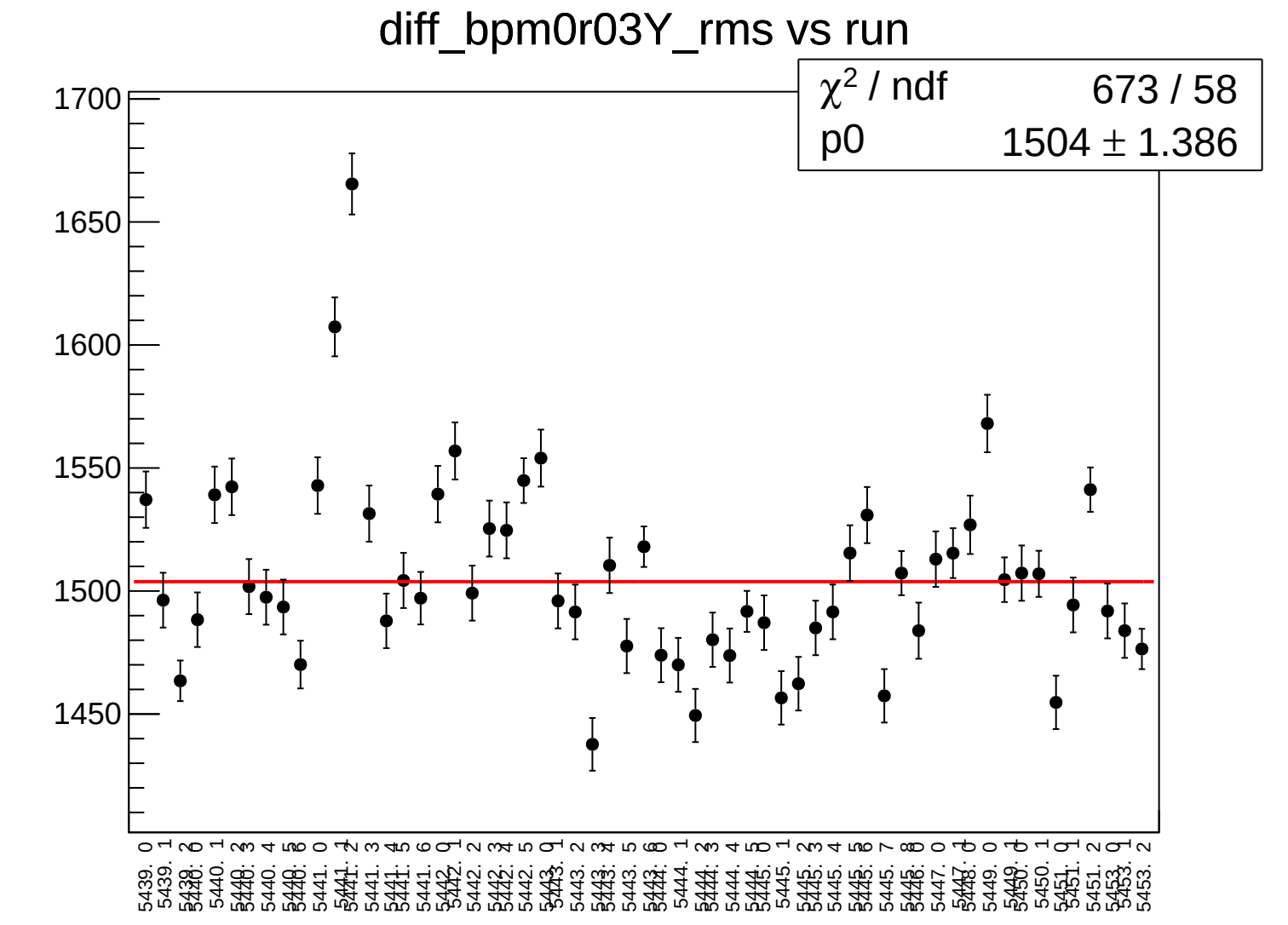

diff_bpm0r03X_mean vs run
$\chi^2$ / ndf 64.96 / 58
p0 −84.23 ± 69.73
pull
Entries 59
Mean −97.31
Std Dev 149.4

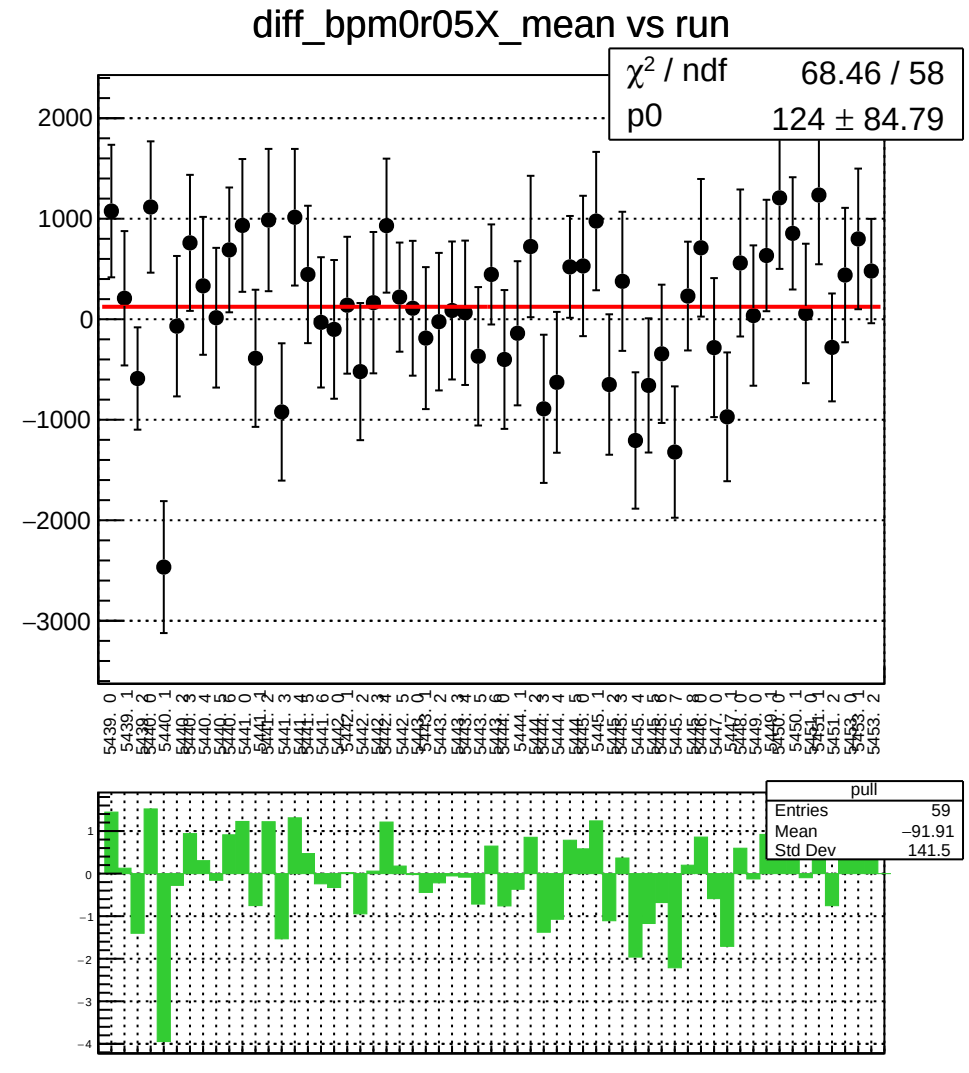

pull1D
Entries 59
Mean 0.008054
Std Dev 1.049

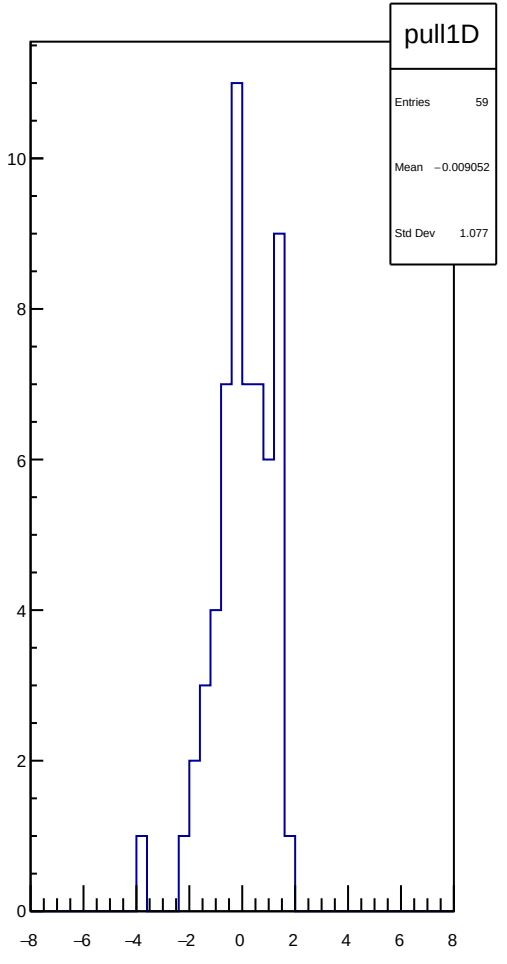

diff_bpm0r03X_rms vs run
χ² / ndf 665.3 / 58
p0 5.35e+04 ± 49.31
58000
57000
56000
55000
54000
53000
52000
51000
50000

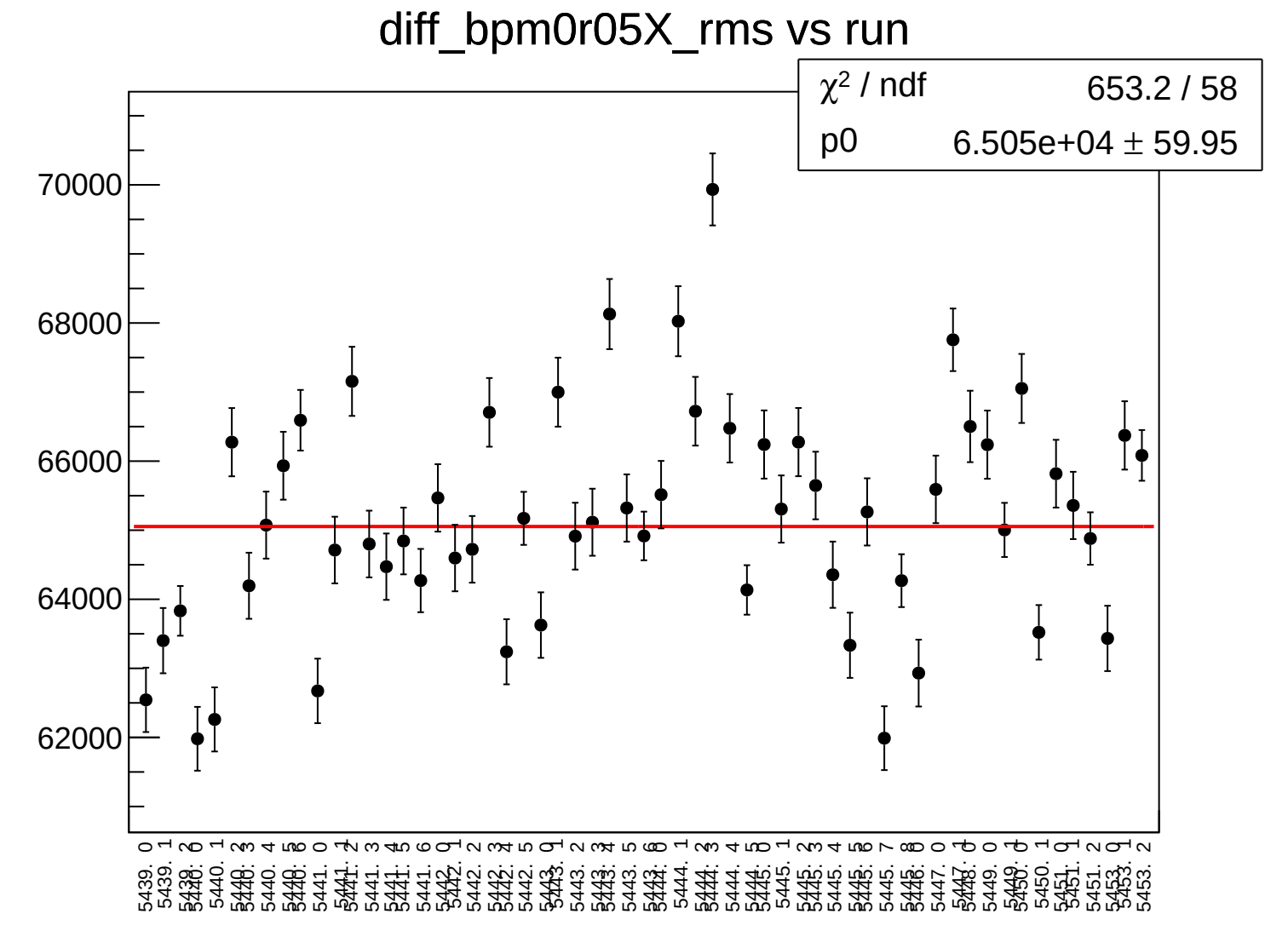

diff_bpm0r03Y_mean vs run
χ² / ndf 85.26 / 58
p0 7.084 ± 1.96
pull
Entries 59
Mean 100.5
Std Dev 71.13

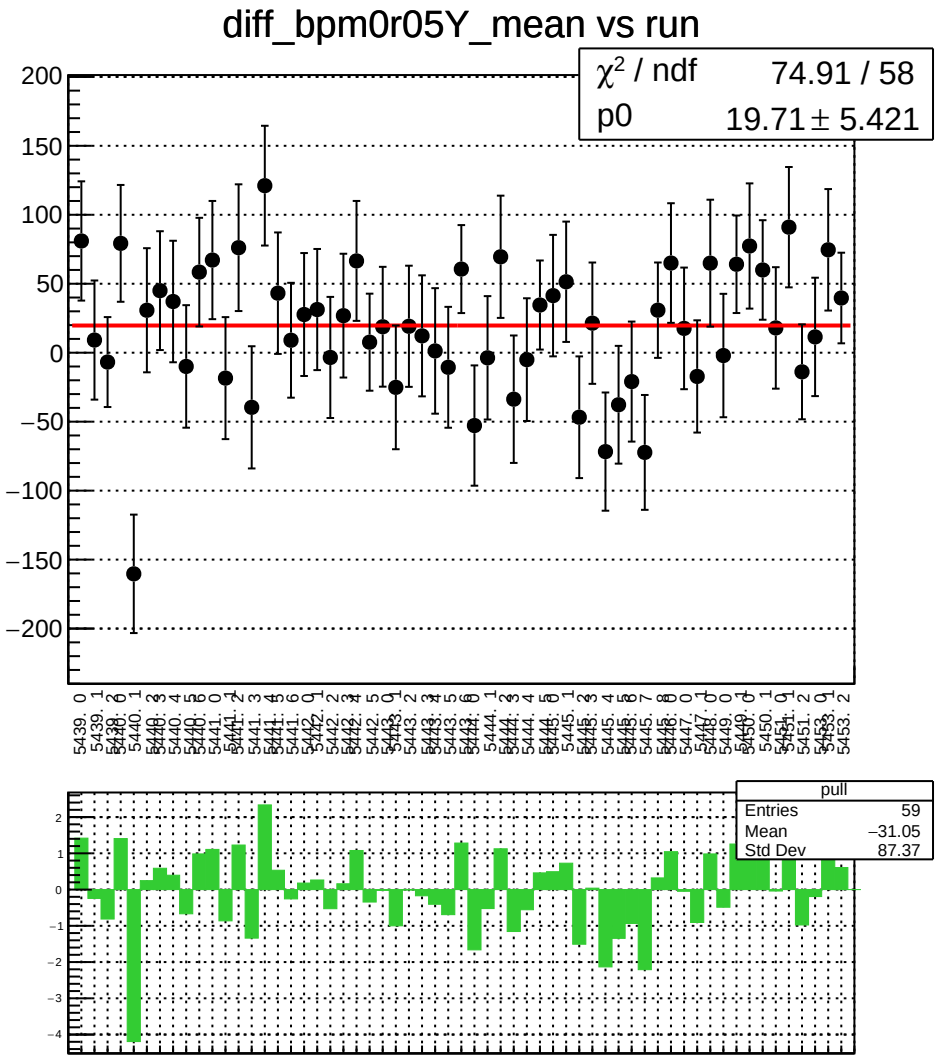

pull1D
Entries 59
Mean −0.01641
Std Dev 1.202

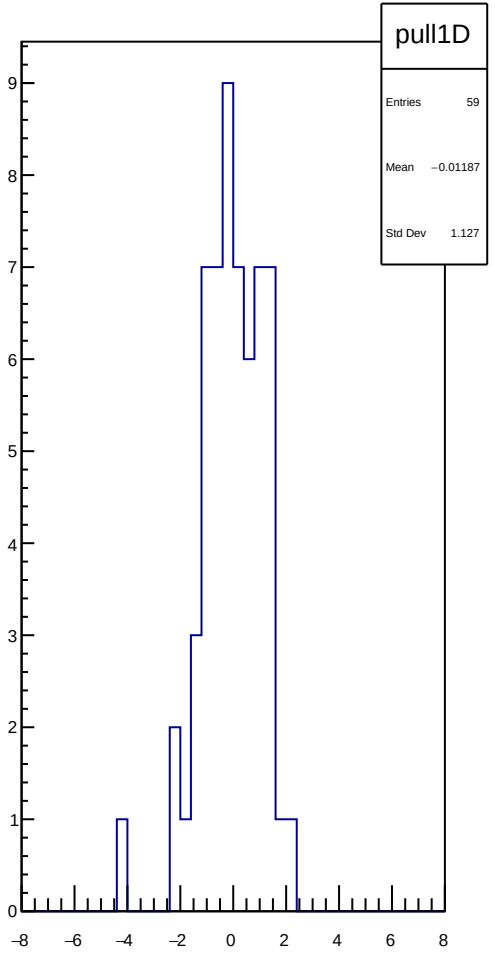

diff_bpm0r03Y_rms vs run
χ² / ndf 673 / 58
p0 1504 ± 1.386
1700
1650
1600
1550
1500
1450

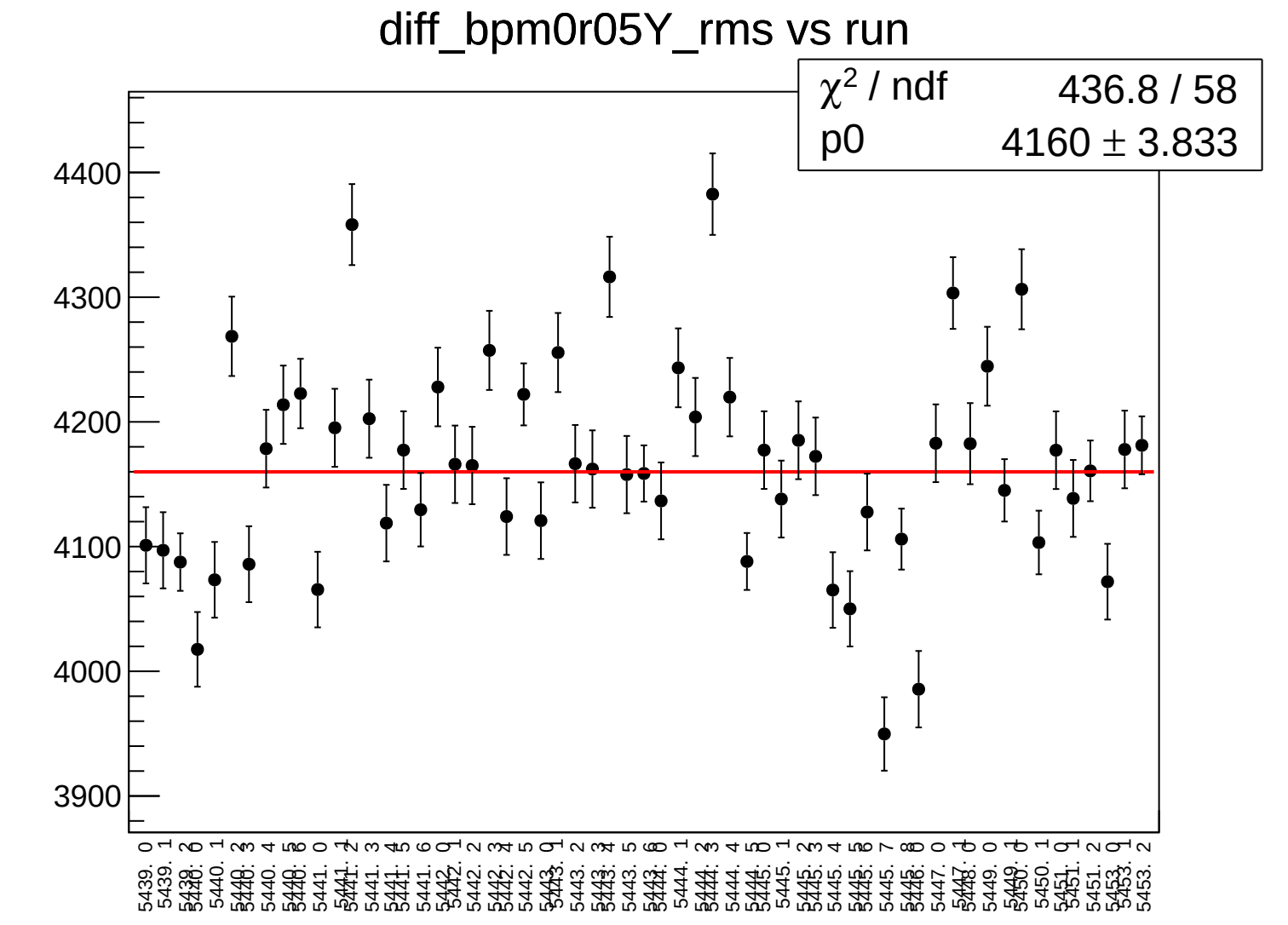

diff_bpm0r05X_mean vs run
$\chi^2$ / ndf 68.46 / 58
p0 124 ± 84.79
2000
1000
0
−1000
−2000
−3000
pull
Entries 59
Mean −91.91
Std Dev 141.5
1
0
−1
−2
−3
−4

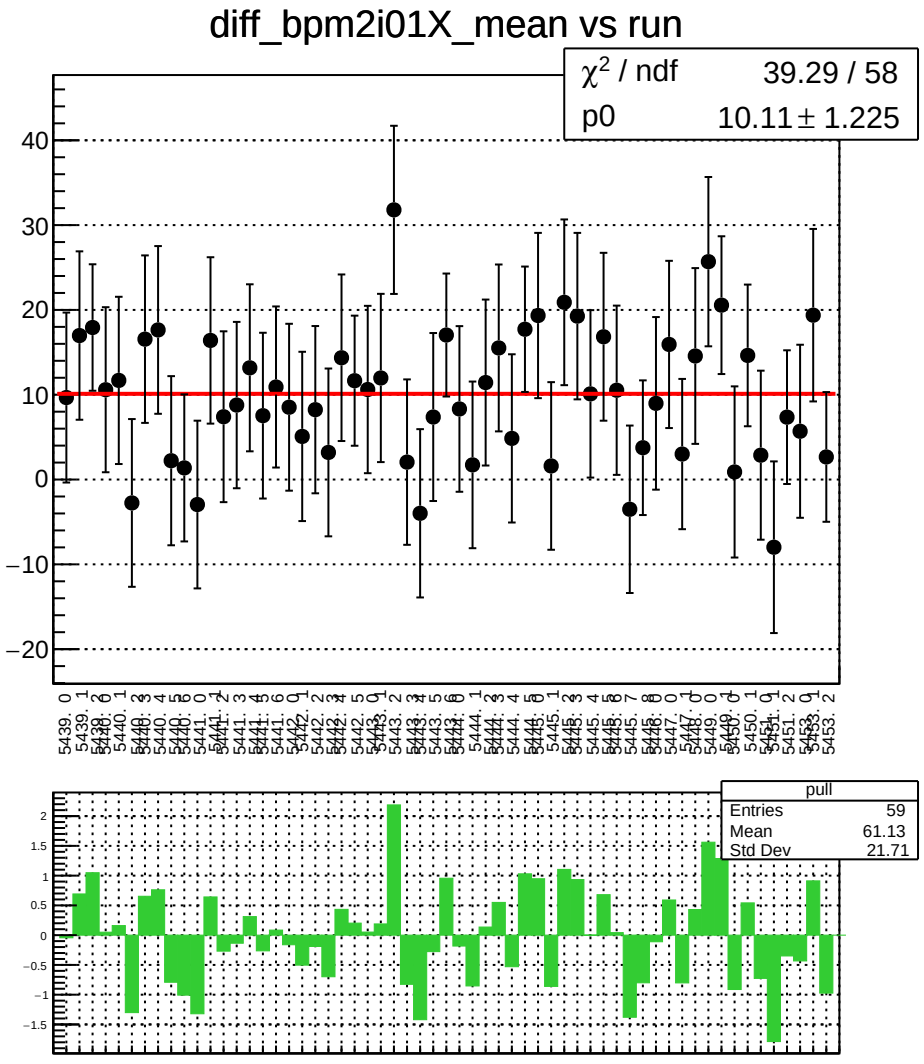

pull1D
Entries 59
Mean −0.009052
Std Dev 1.077
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

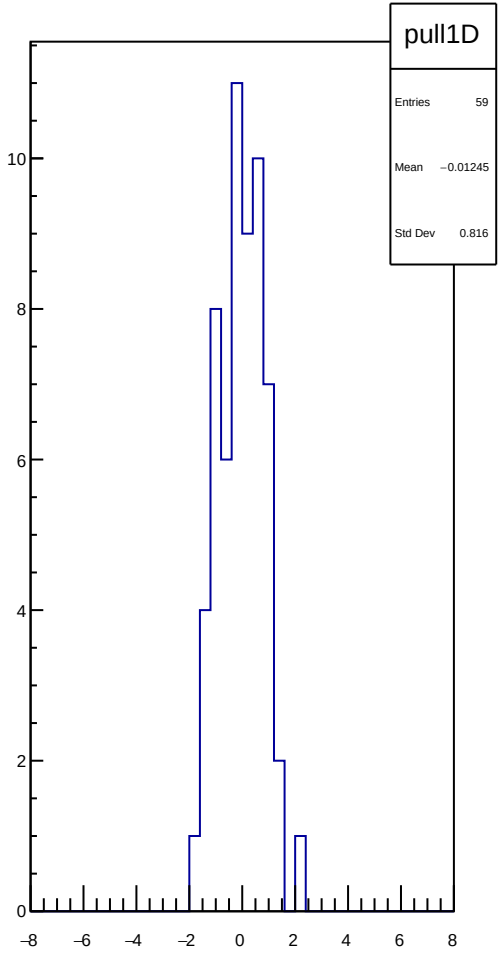

diff_bpm0r05X_rms vs run
χ² / ndf 653.2 / 58
p0 6.505e+04 ± 59.95
70000
68000
66000
64000
62000
5439. 0
5439. 1
5440. 1
5441. 0
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5442. 1
5442. 2
5442. 5
5443. 2
5443. 5
5443. 6
5444. 1
5444. 3
5444. 4
5445. 1
5445. 2
5445. 3
5445. 4
5445. 7
5447. 0
5447. 1
5448. 0
5449. 0
5450. 1
5451. 1
5451. 2
5453. 2

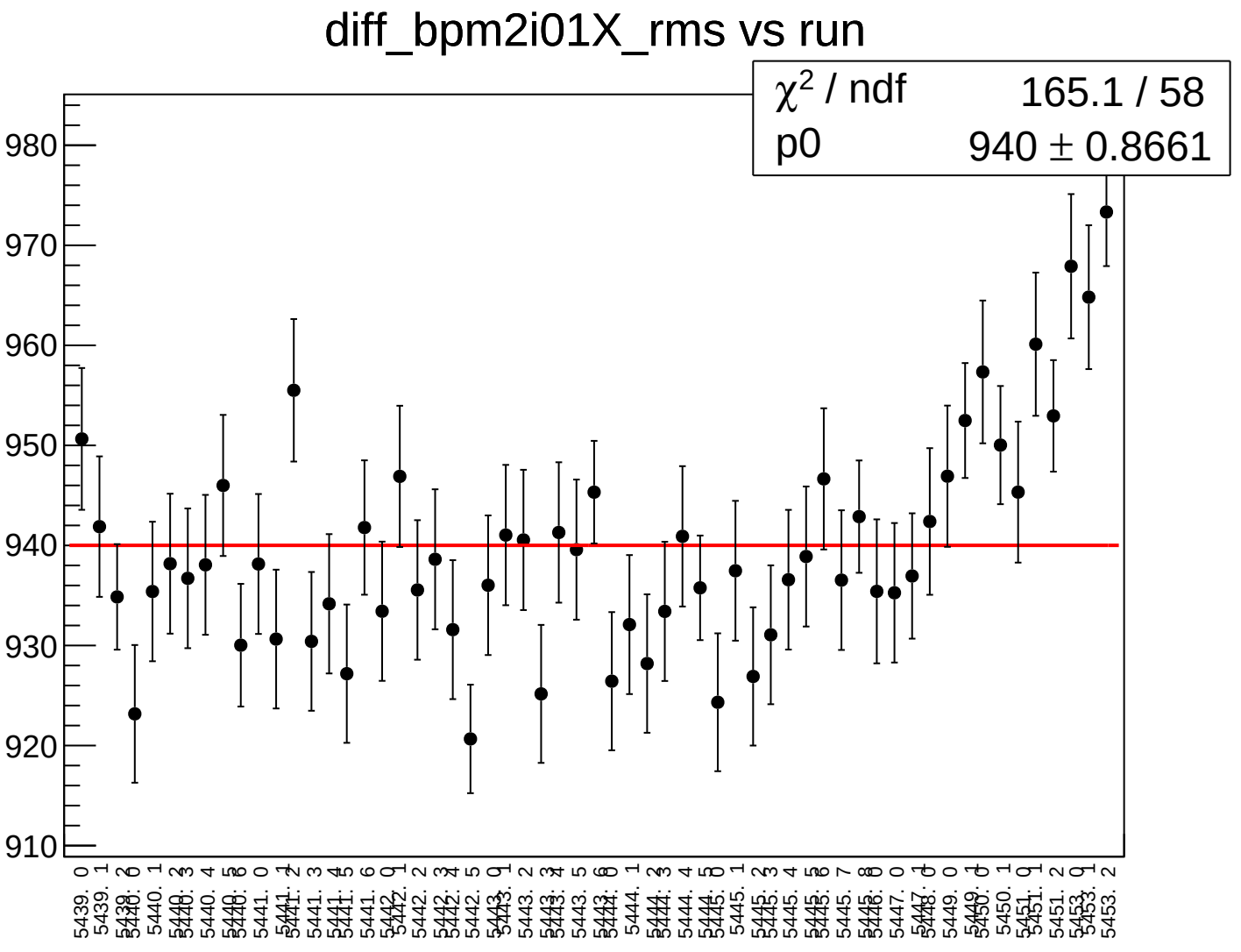

diff_bpm0r05Y_mean vs run
χ² / ndf 74.91 / 58
p0 19.71 ± 5.421
pull
Entries 59
Mean −31.05
Std Dev 87.37

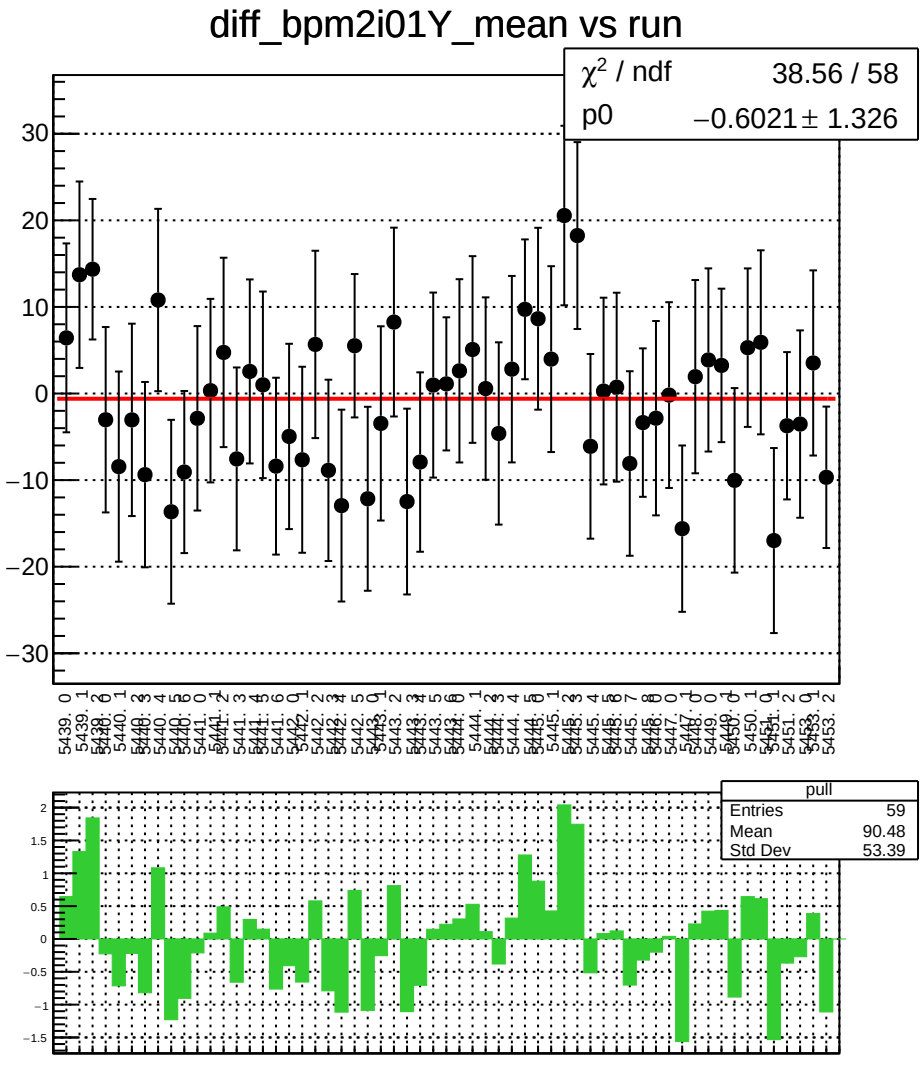

pull1D
Entries 59
Mean −0.01187
Std Dev 1.127

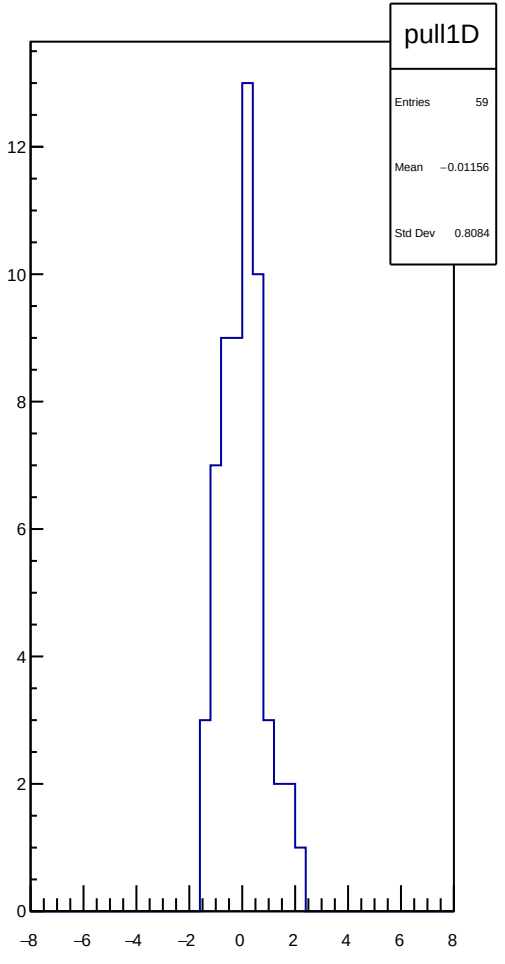

diff_bpm0r05Y_rms vs run
χ² / ndf 436.8 / 58
p0 4160 ± 3.833
4400
4300
4200
4100
4000
3900

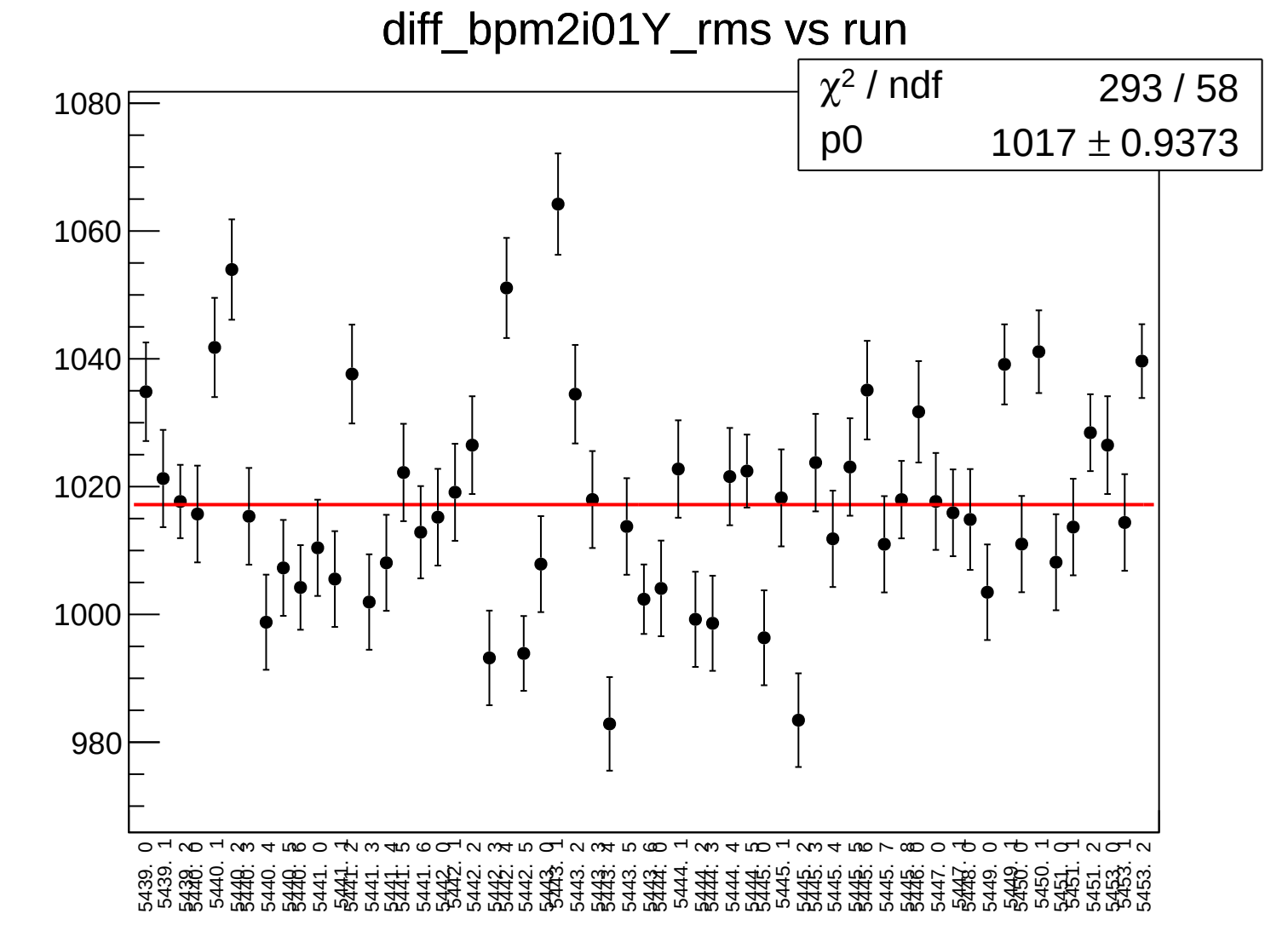

diff_bpm2i01X_mean vs run
χ² / ndf 39.29 / 58
p0 10.11 ± 1.225
pull
Entries 59
Mean 61.13
Std Dev 21.71

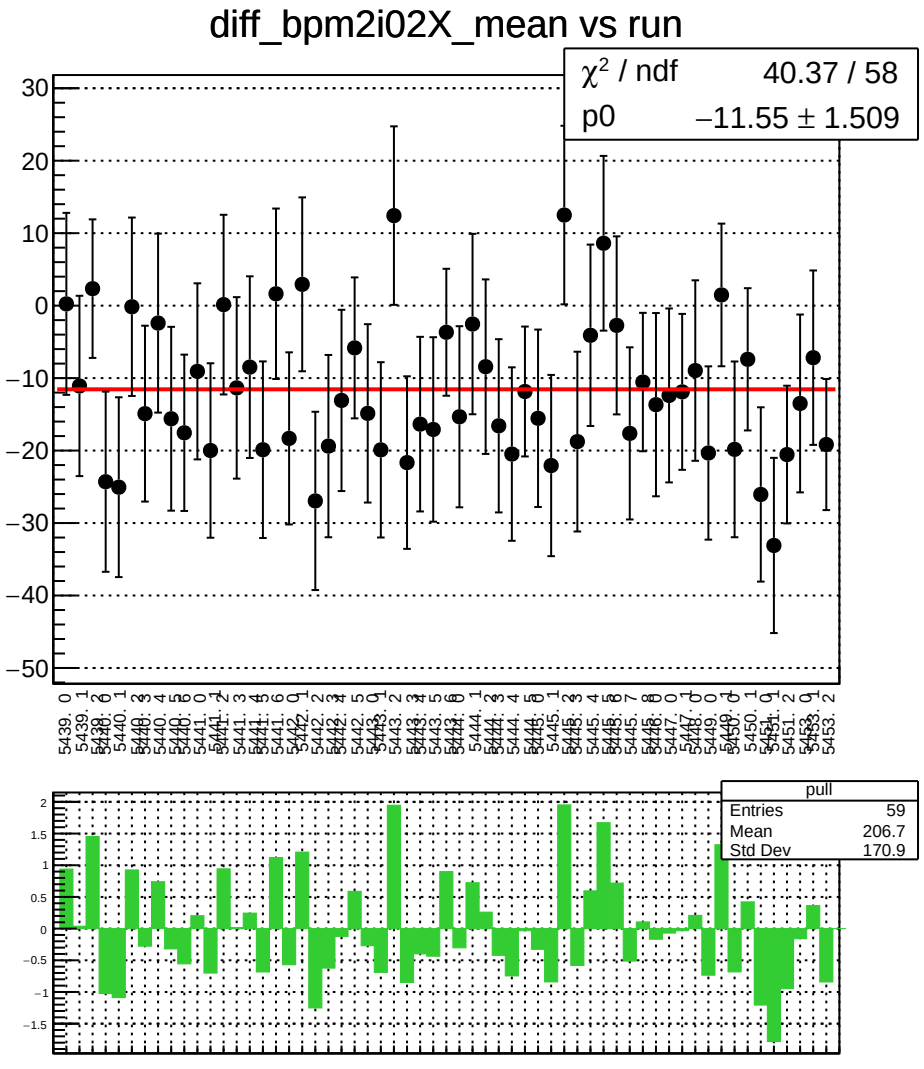

pull1D
Entries 59
Mean −0.01245
Std Dev 0.816

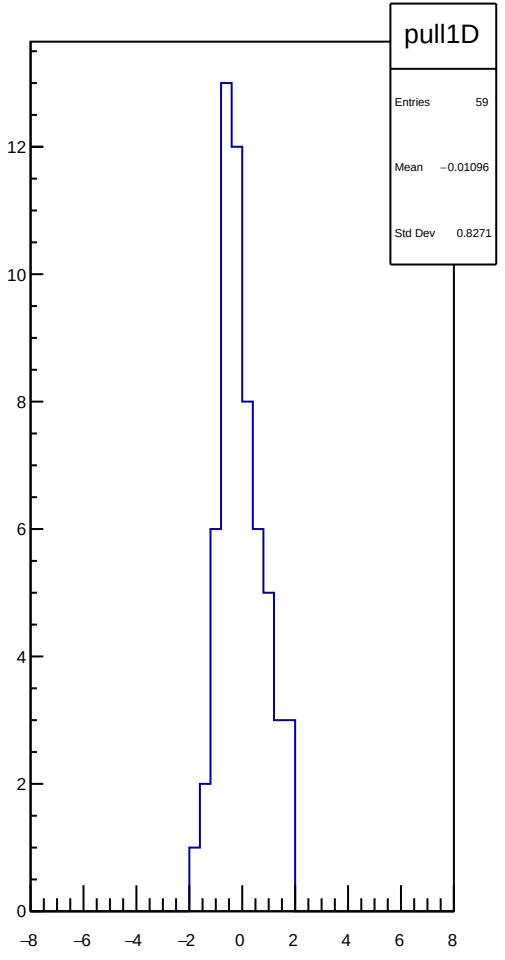

diff_bpm2i01X_rms vs run
χ² / ndf 165.1 / 58
p0 940 ± 0.8661
980
970
960
950
940
930
920
910

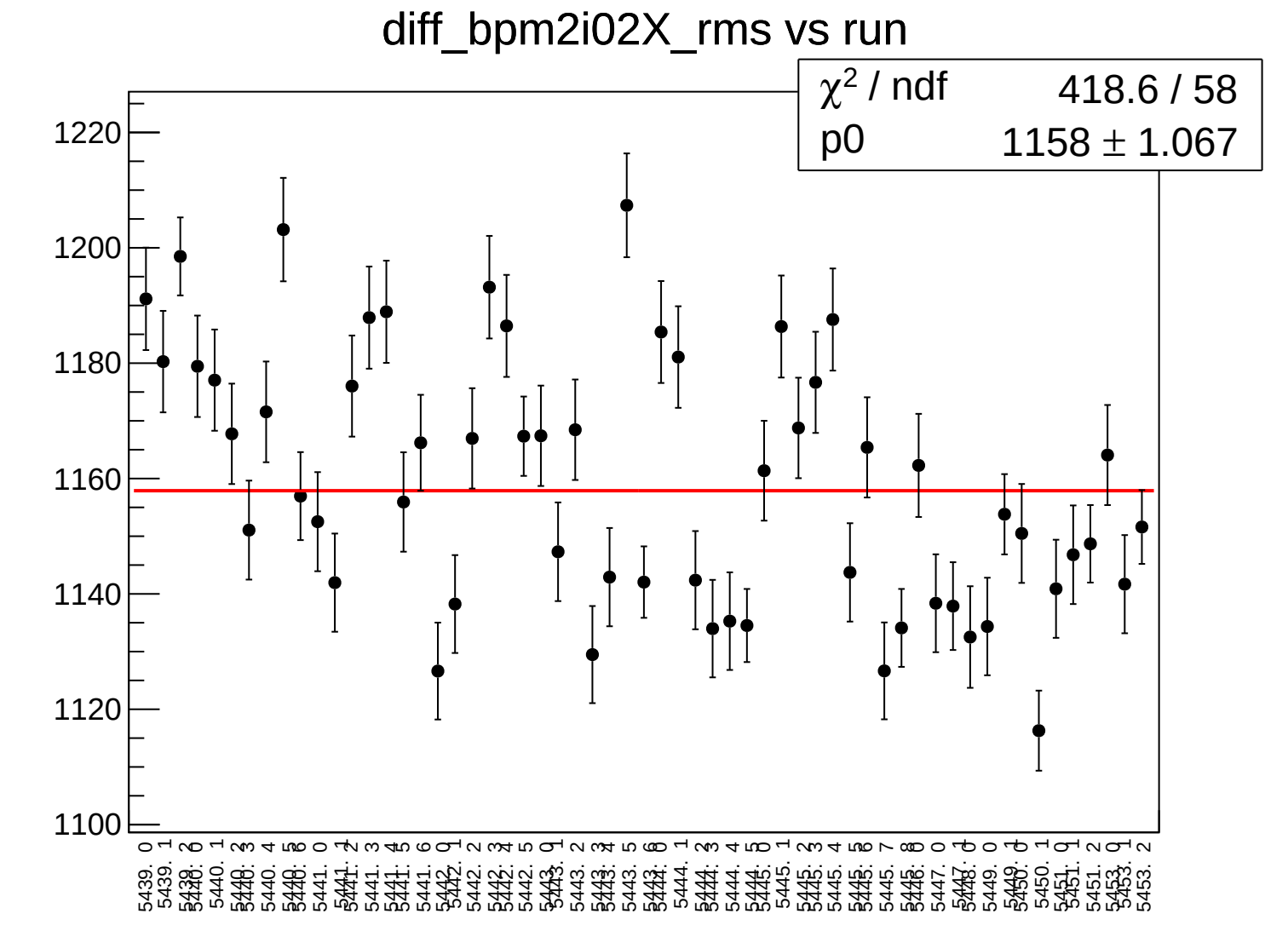

diff_bpm2i01Y_mean vs run
χ² / ndf 38.56 / 58
p0 −0.6021 ± 1.326
pull
Entries 59
Mean 90.48
Std Dev 53.39

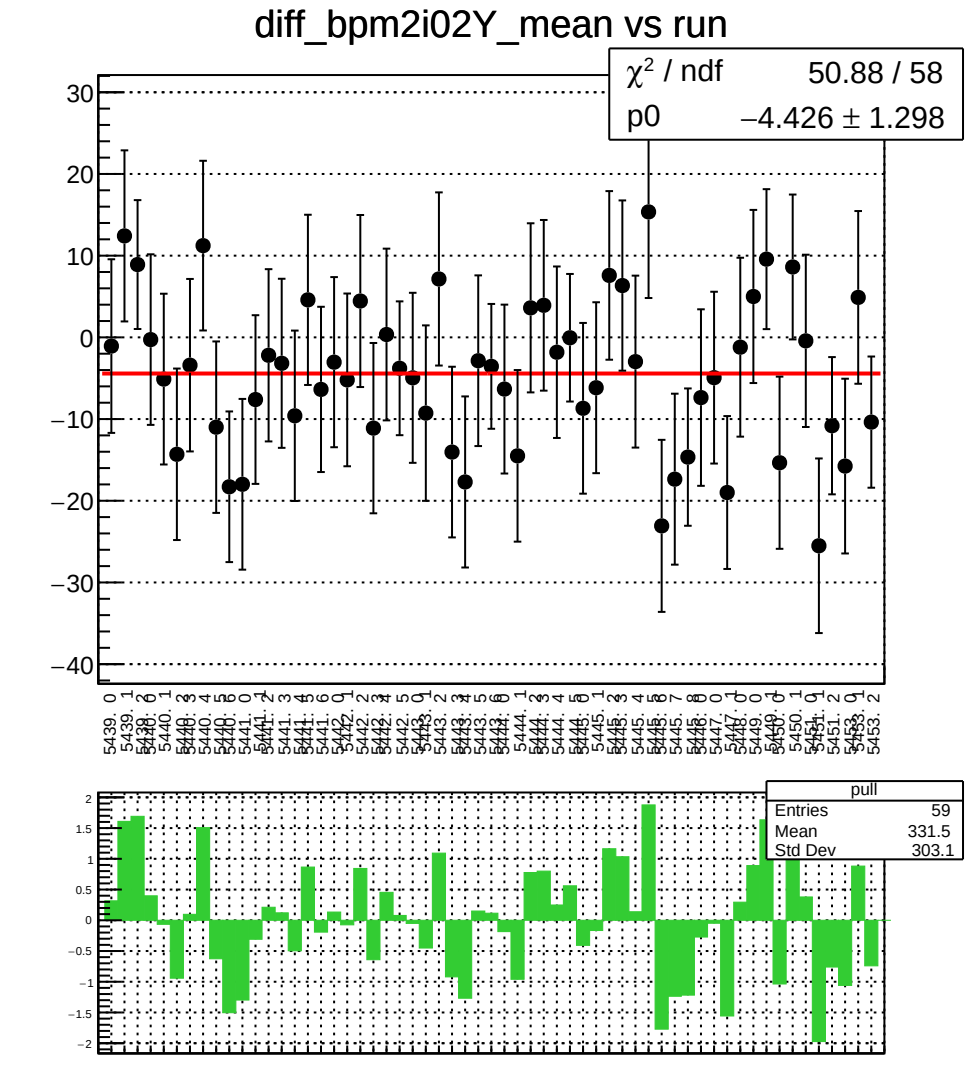

pull1D
Entries 59
Mean −0.01156
Std Dev 0.8084

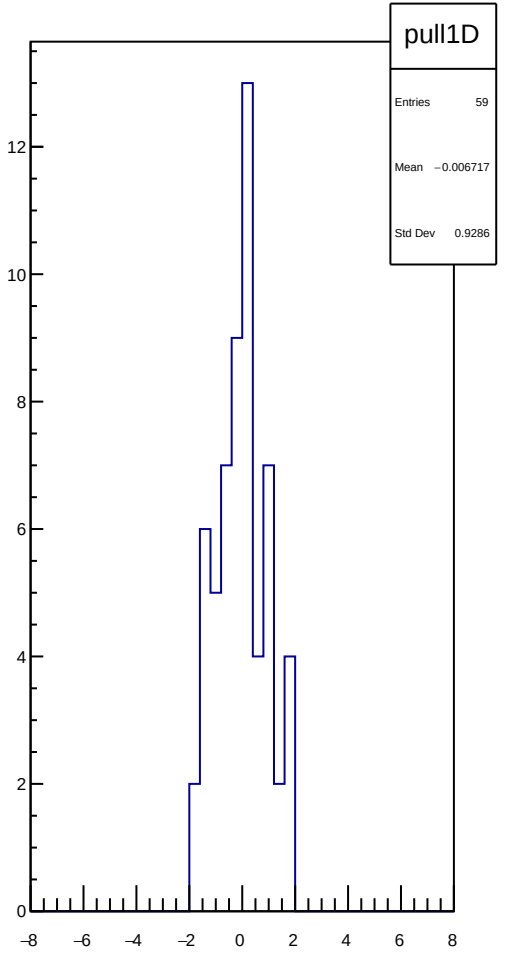

diff_bpm2i01Y_rms vs run
χ² / ndf 293 / 58
p0 1017 ± 0.9373
1080
1060
1040
1020
1000
980

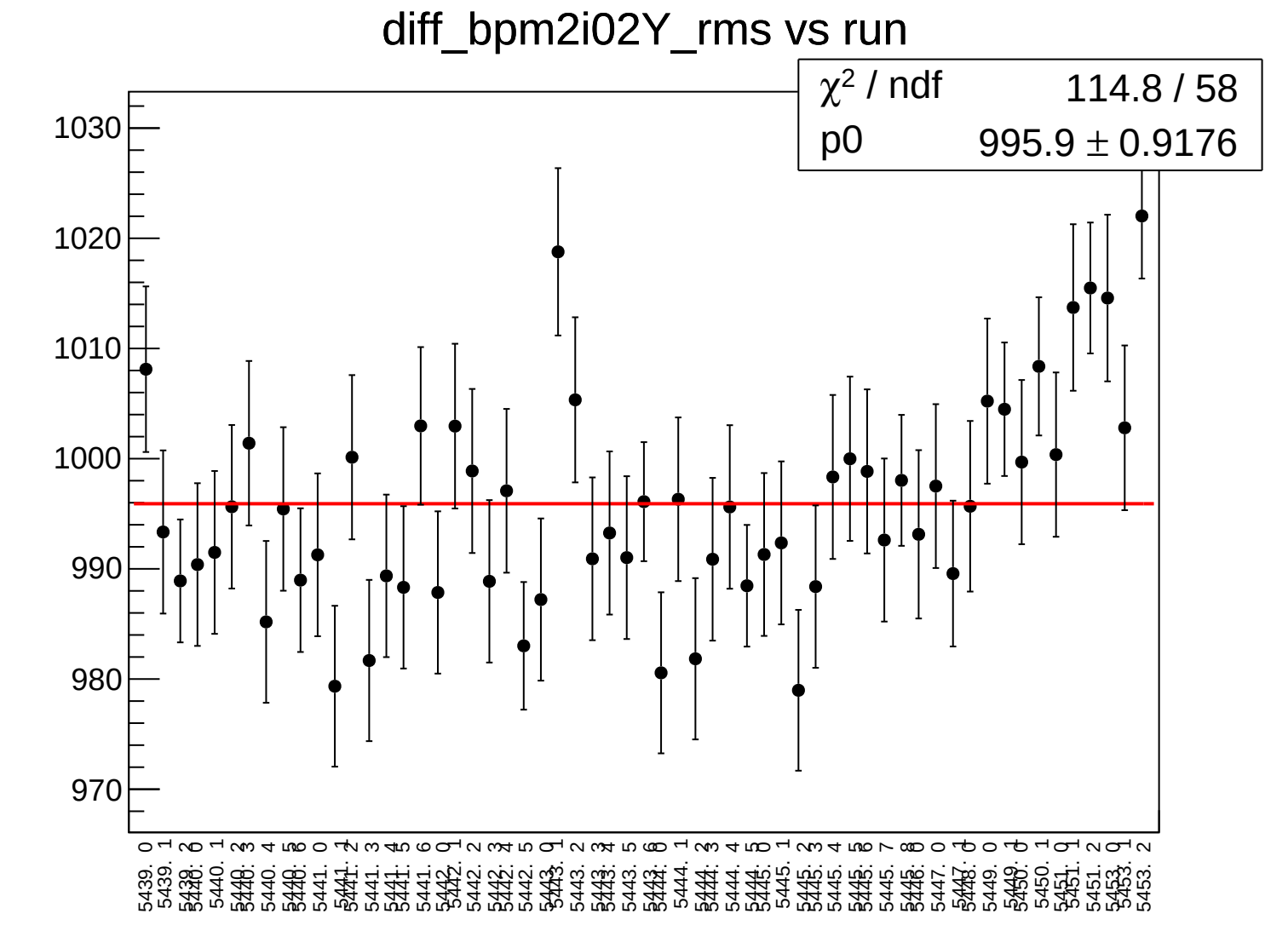

diff_bpm2i02X_mean vs run
χ² / ndf 40.37 / 58
p0 −11.55 ± 1.509
pull
Entries 59
Mean 206.7
Std Dev 170.9

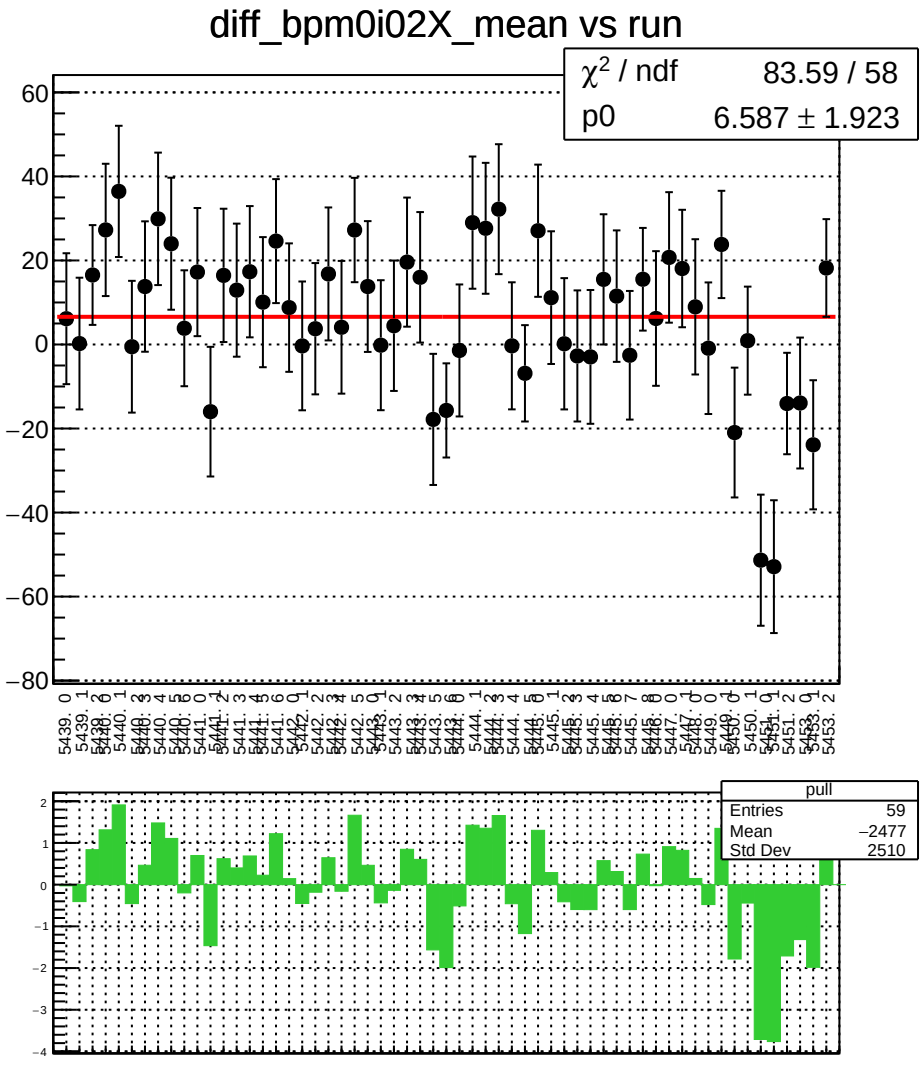

pull1D
Entries 59
Mean −0.01096
Std Dev 0.8271

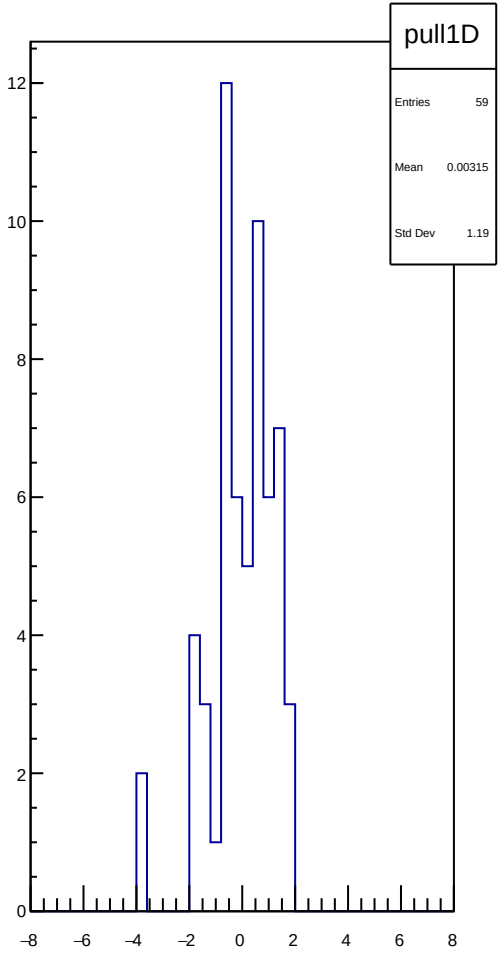

diff_bpm2i02X_rms vs run
$\chi^2$ / ndf 418.6 / 58
p0 1158 ± 1.067
1220
1200
1180
1160
1140
1120
1100

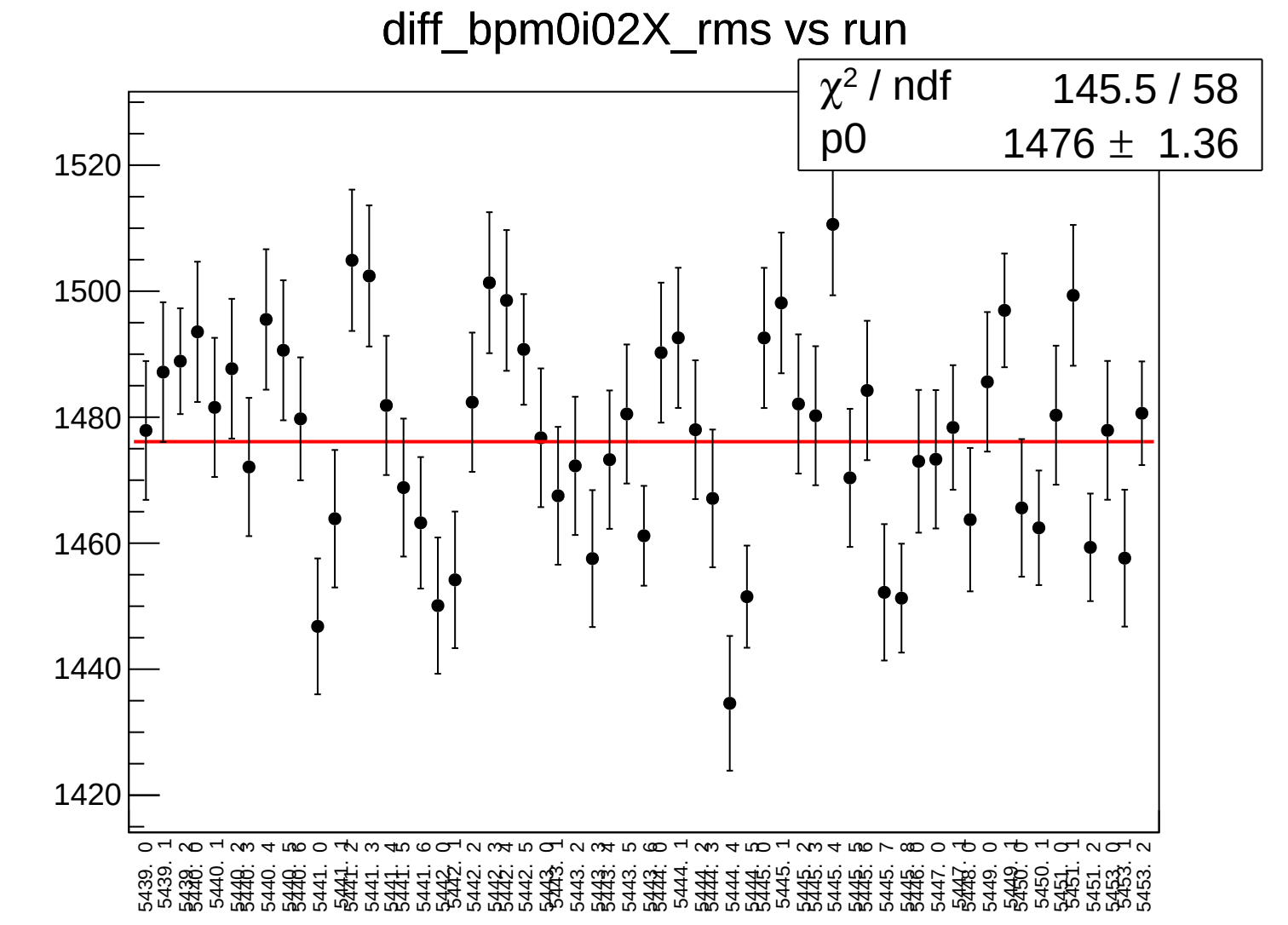

diff_bpm2i02Y_mean vs run
χ² / ndf 50.88 / 58
p0 −4.426 ± 1.298
pull
Entries 59
Mean 331.5
Std Dev 303.1

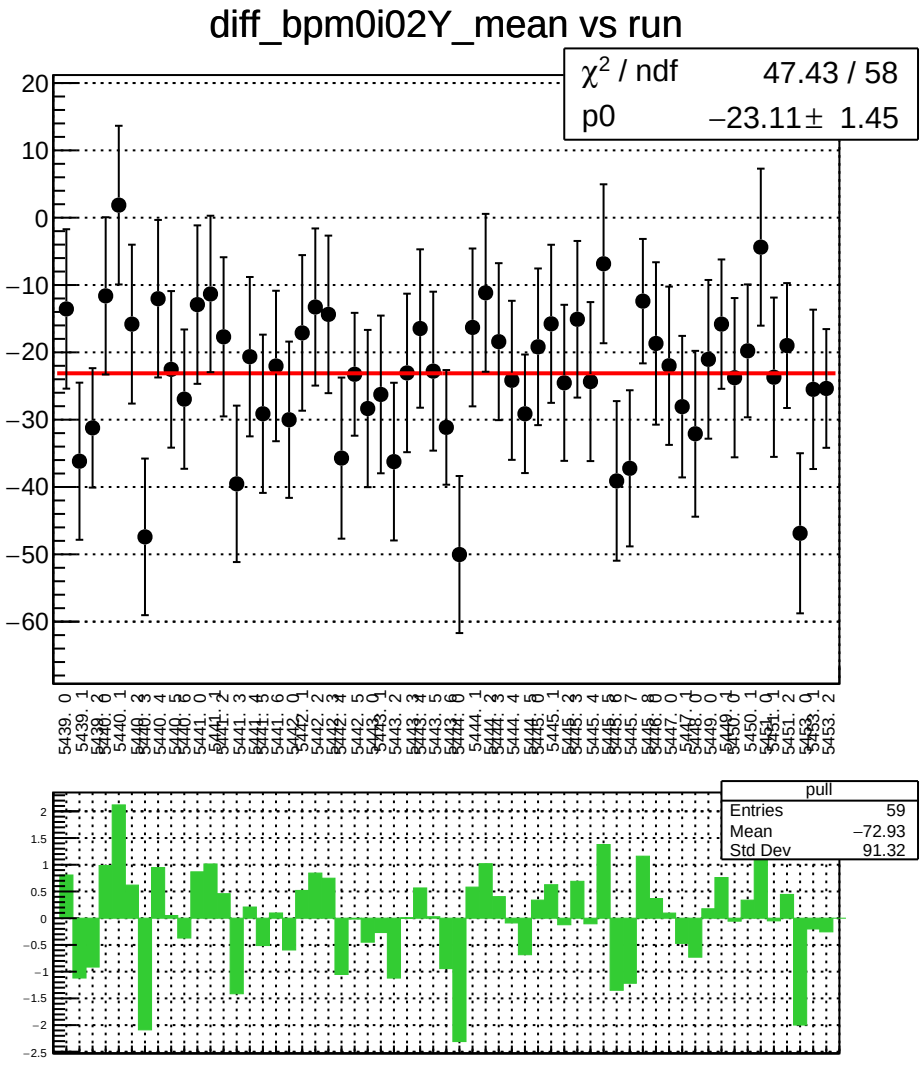

pull1D
Entries 59
Mean −0.006717
Std Dev 0.9286

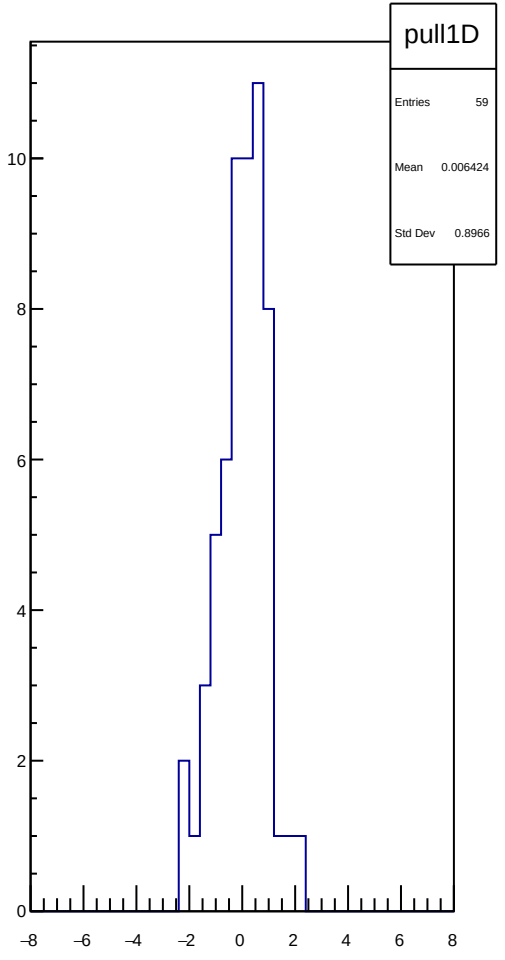

diff_bpm2i02Y_rms vs run
χ² / ndf 114.8 / 58
p0 995.9 ± 0.9176
1030
1020
1010
1000
990
980
970

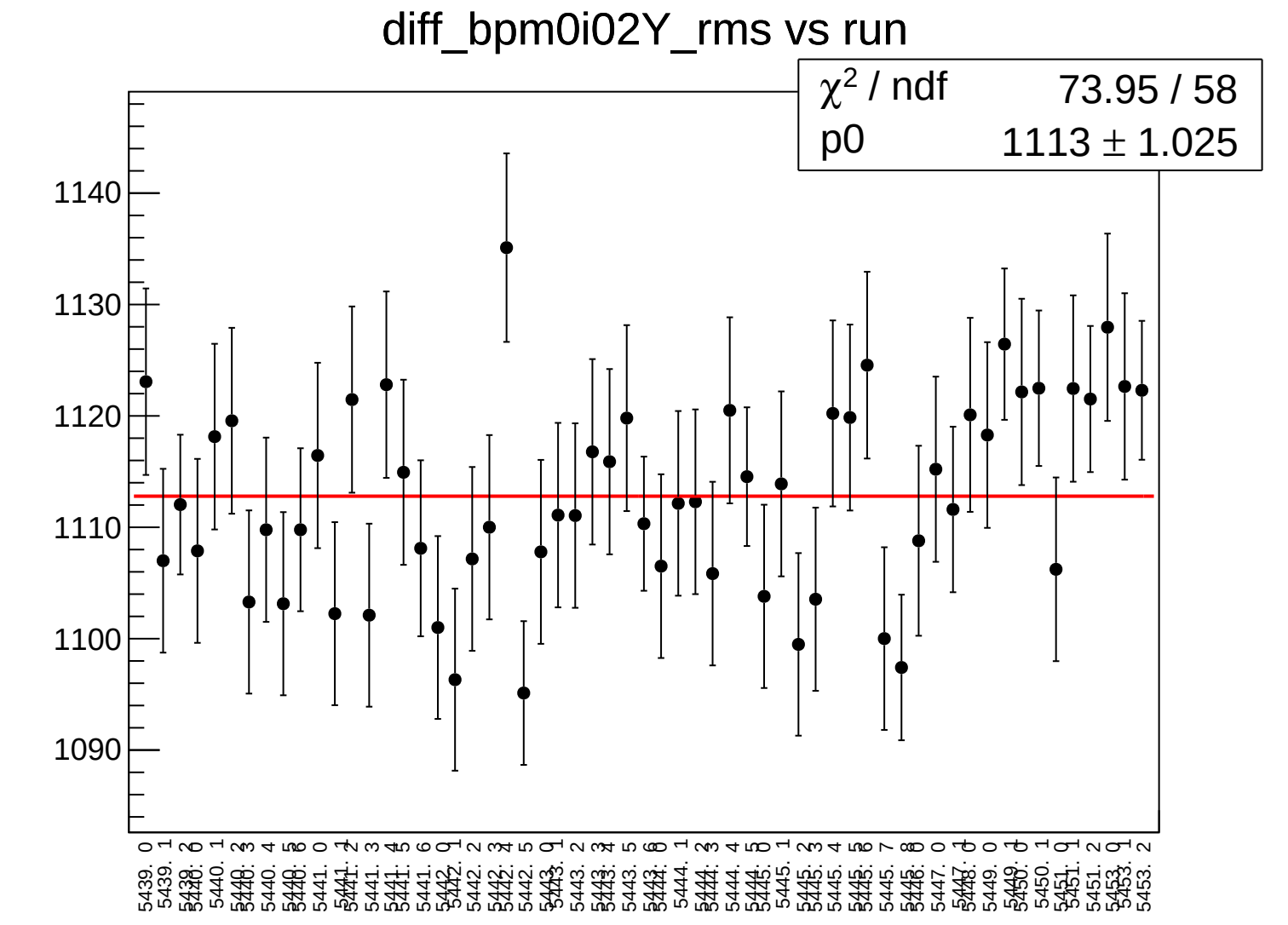

diff_bpm0i02X_mean vs run
$\chi^2$ / ndf 83.59 / 58
p0 6.587 ± 1.923
pull
Entries 59
Mean −2477
Std Dev 2510

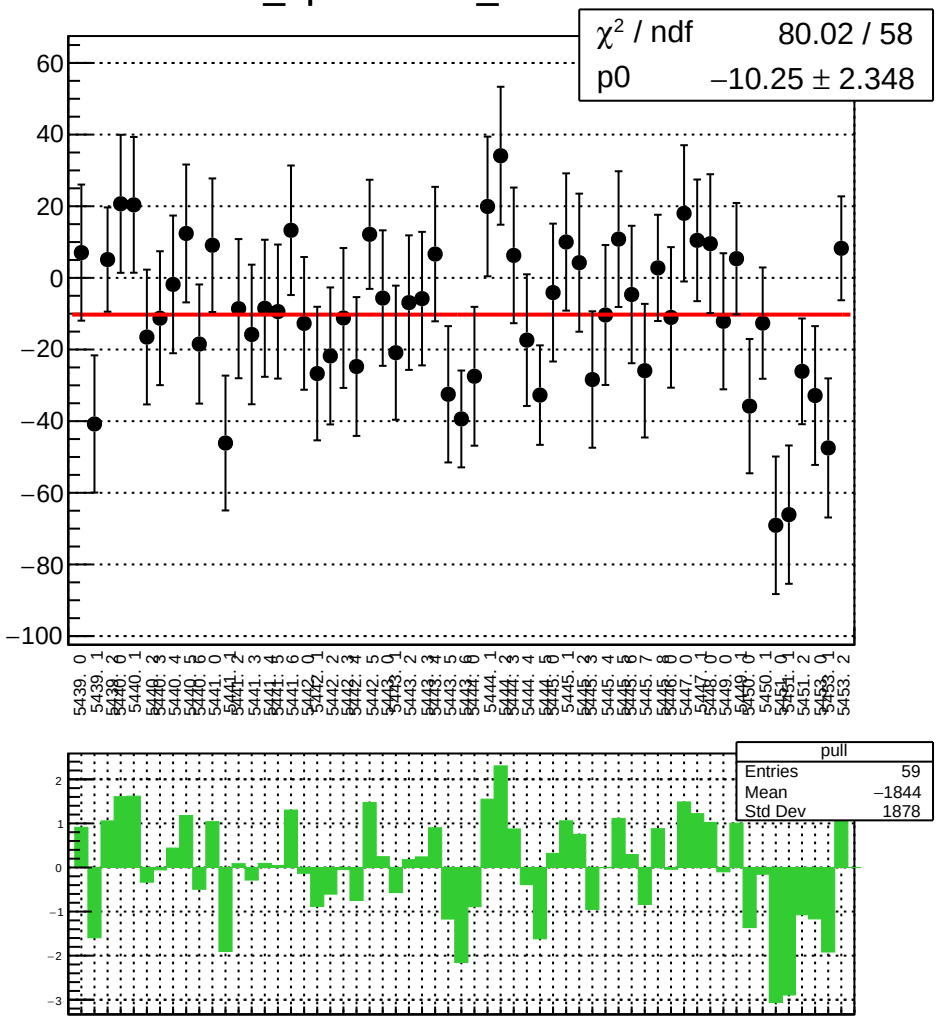

pull1D
Entries 59
Mean 0.00315
Std Dev 1.19

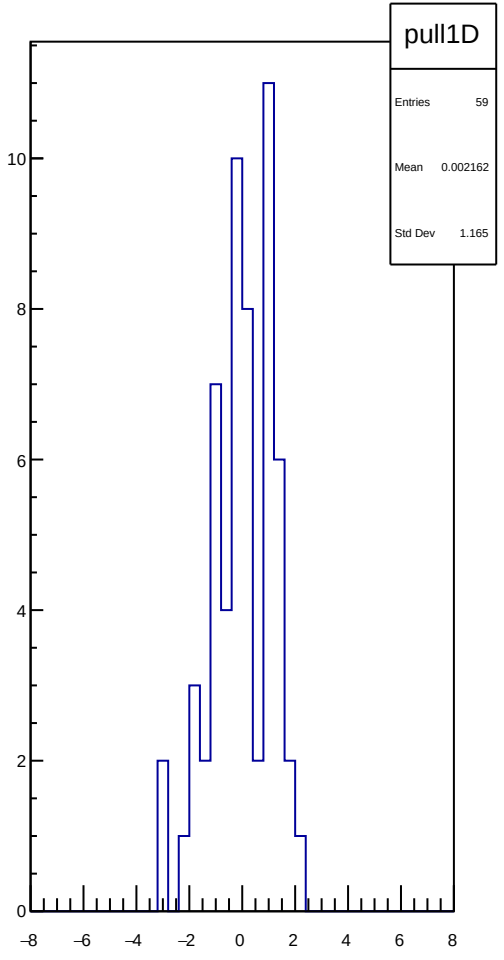

diff_bpm0i02X_rms vs run
χ² / ndf 145.5 / 58
p0 1476 ± 1.36
1520
1500
1480
1460
1440
1420

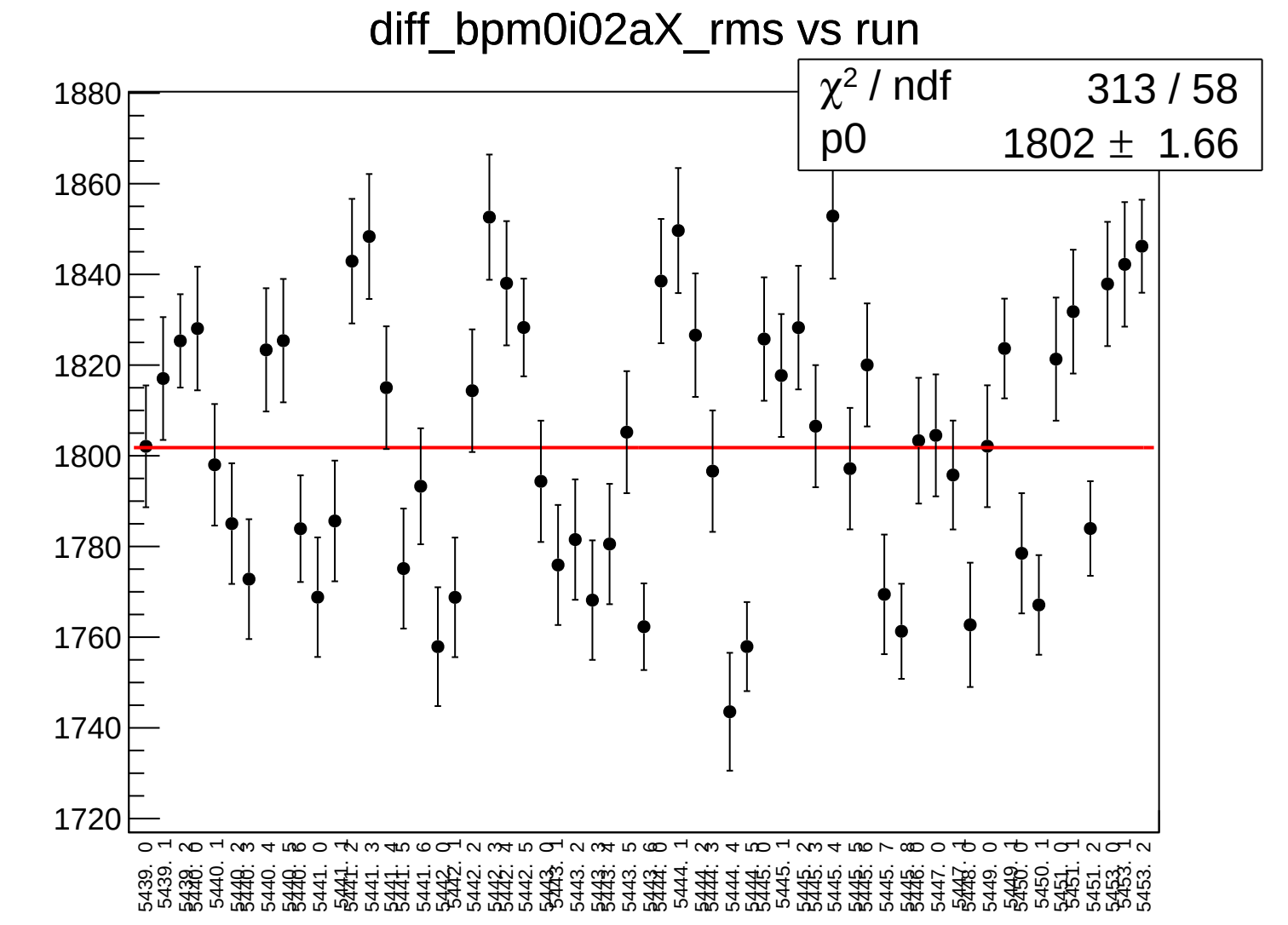

diff_bpm0i02Y_mean vs run
χ² / ndf 47.43 / 58
p0 −23.11 ± 1.45
pull
Entries 59
Mean −72.93
Std Dev 91.32

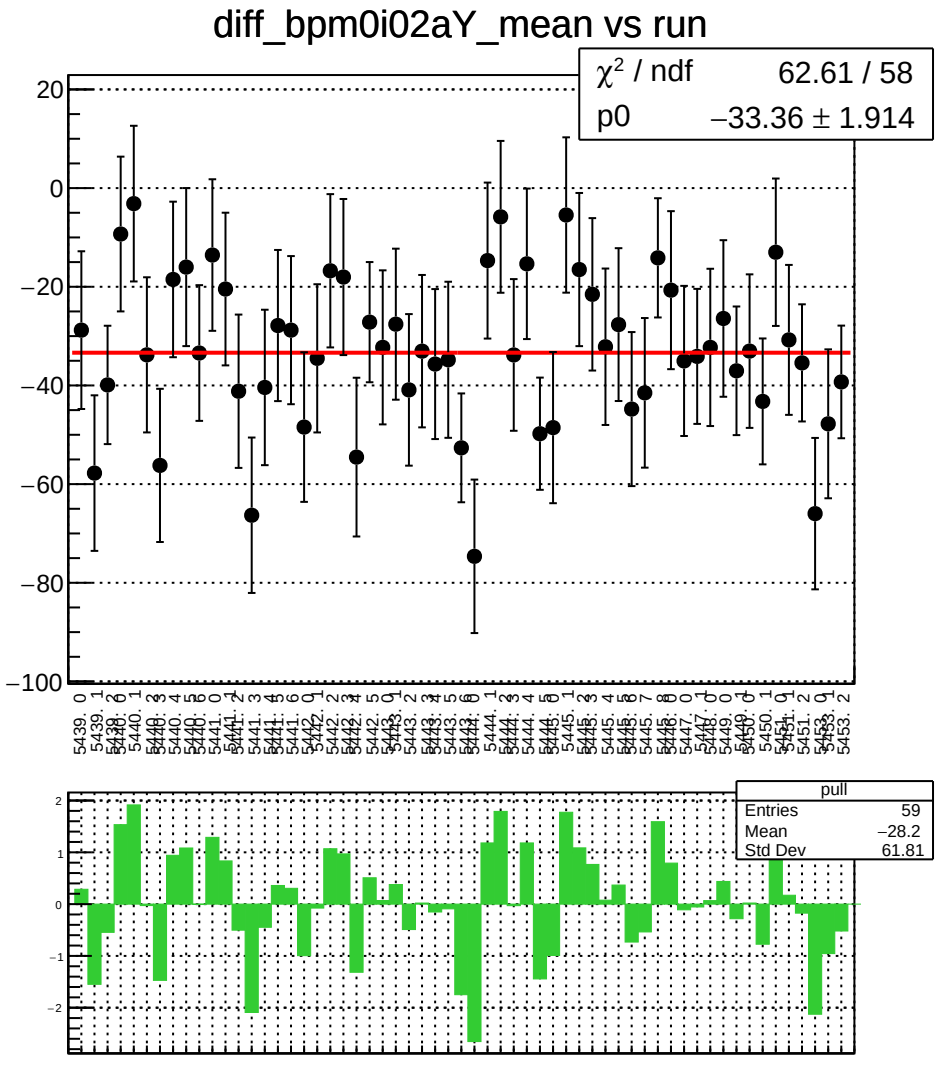

pull1D
Entries 59
Mean 0.006424
Std Dev 0.8966

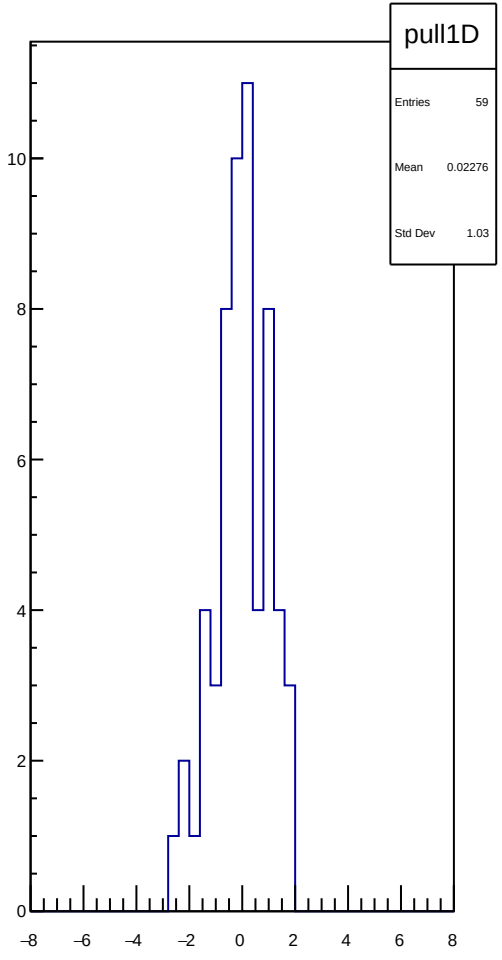

diff_bpm0i02Y_rms vs run
χ² / ndf 73.95 / 58
p0 1113 ± 1.025
1140
1130
1120
1110
1100
1090

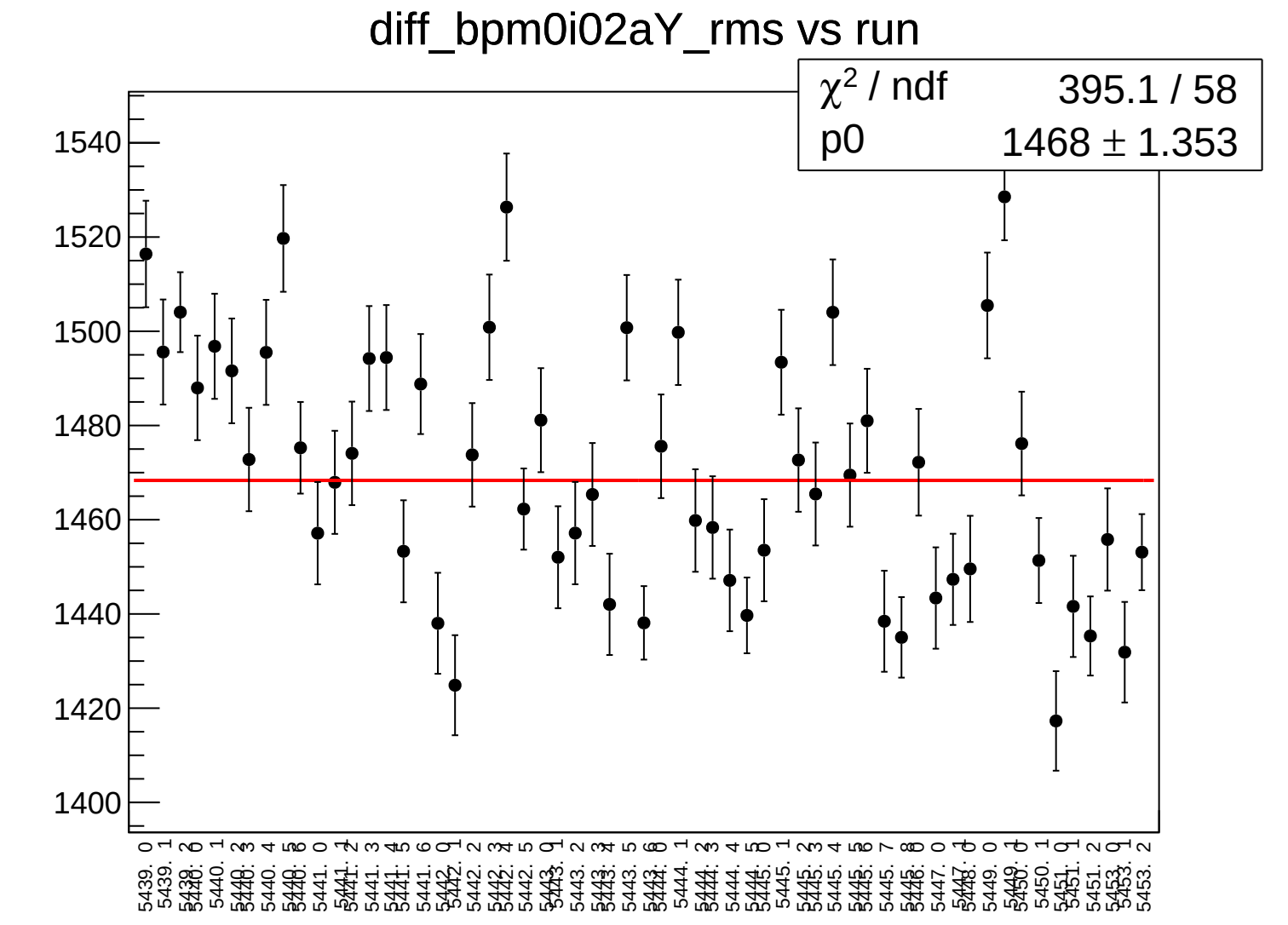

diff_bpm0i02aX_mean vs run
χ² / ndf 80.02 / 58
p0 −10.25 ± 2.348
pull
Entries 59
Mean −1844
Std Dev 1878

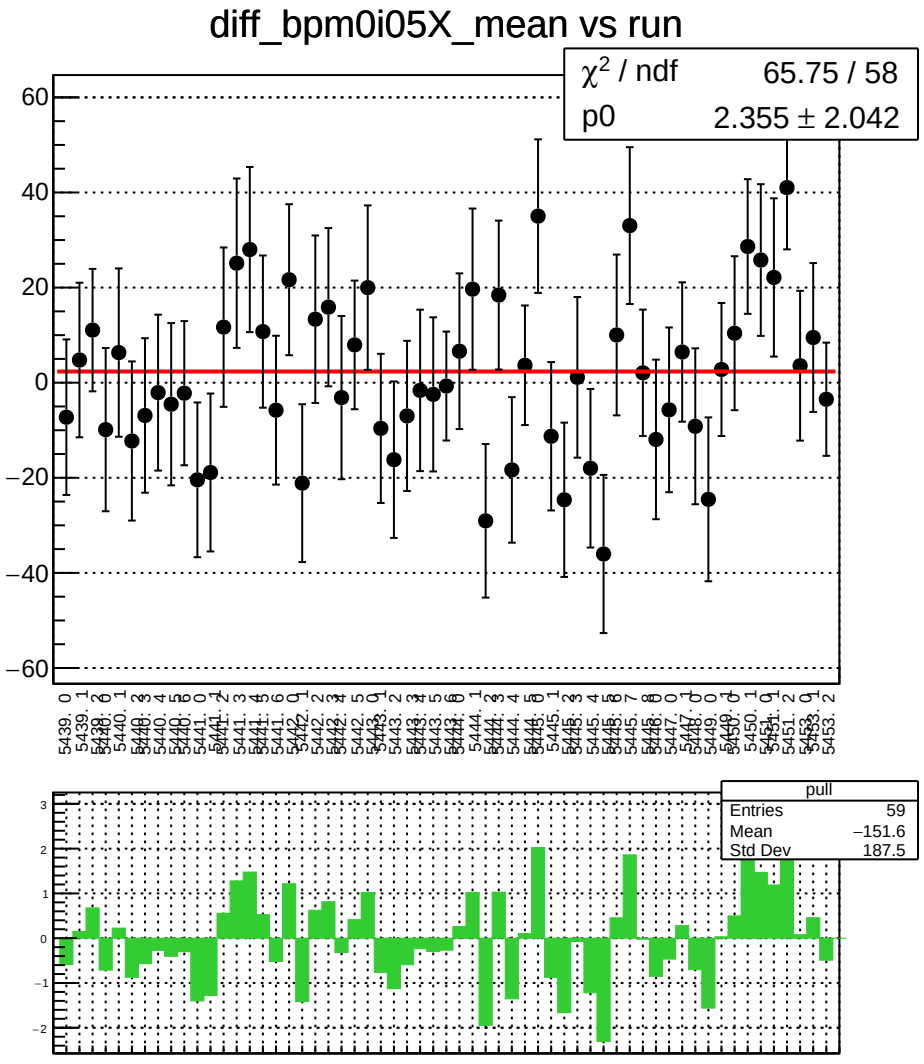

pull1D
Entries 59
Mean 0.002162
Std Dev 1.165

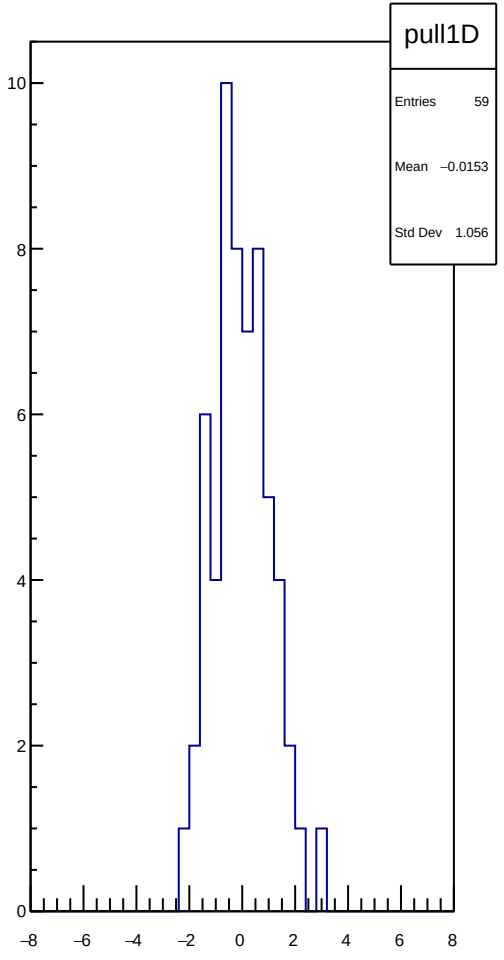

diff_bpm0i02aX_rms vs run
χ² / ndf 313 / 58
p0 1802 ± 1.66
1880
1860
1840
1820
1800
1780
1760
1740
1720

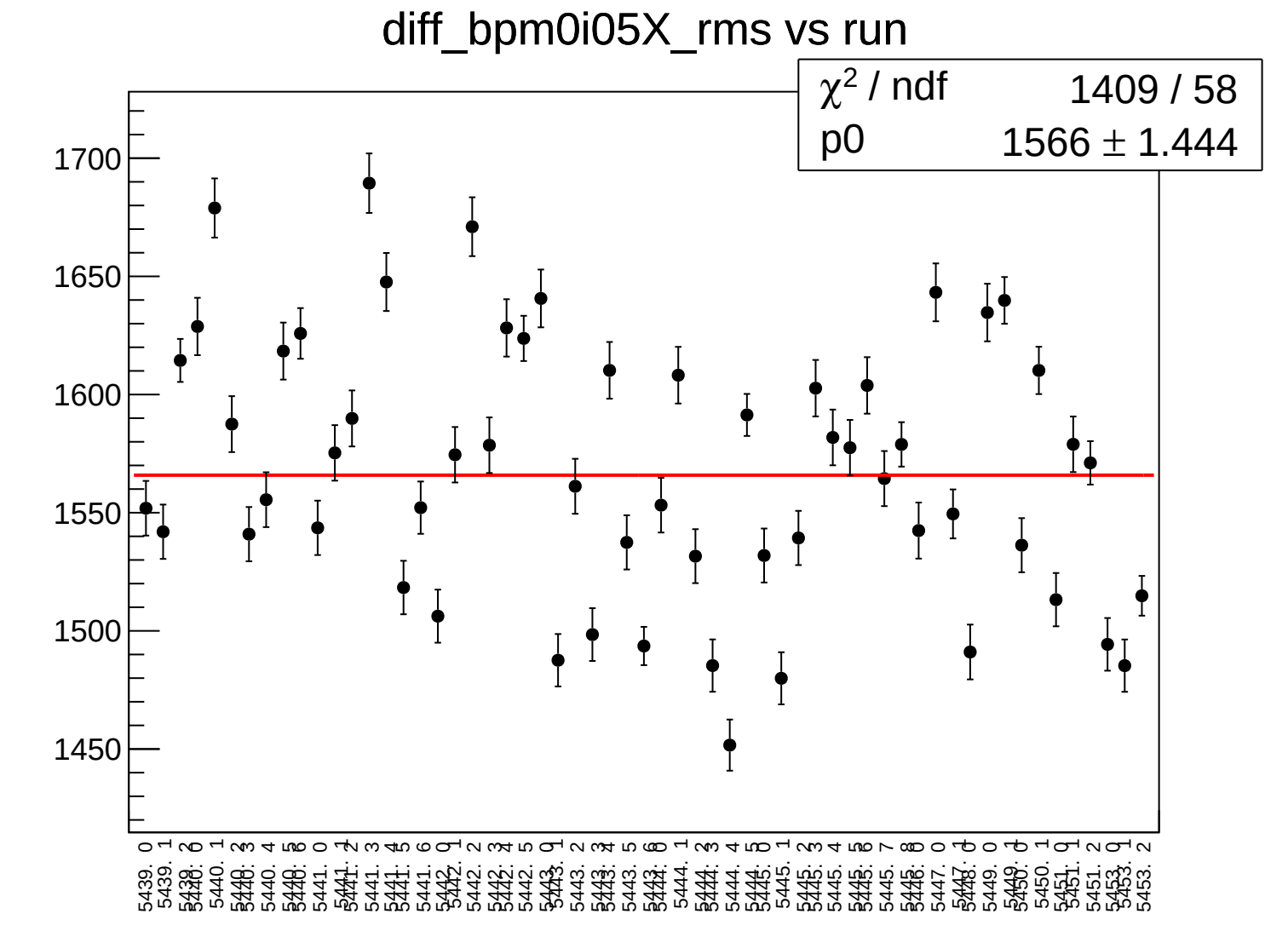

diff_bpm0i02aY_mean vs run
χ² / ndf 62.61 / 58
p0 −33.36 ± 1.914
pull
Entries 59
Mean −28.2
Std Dev 61.81

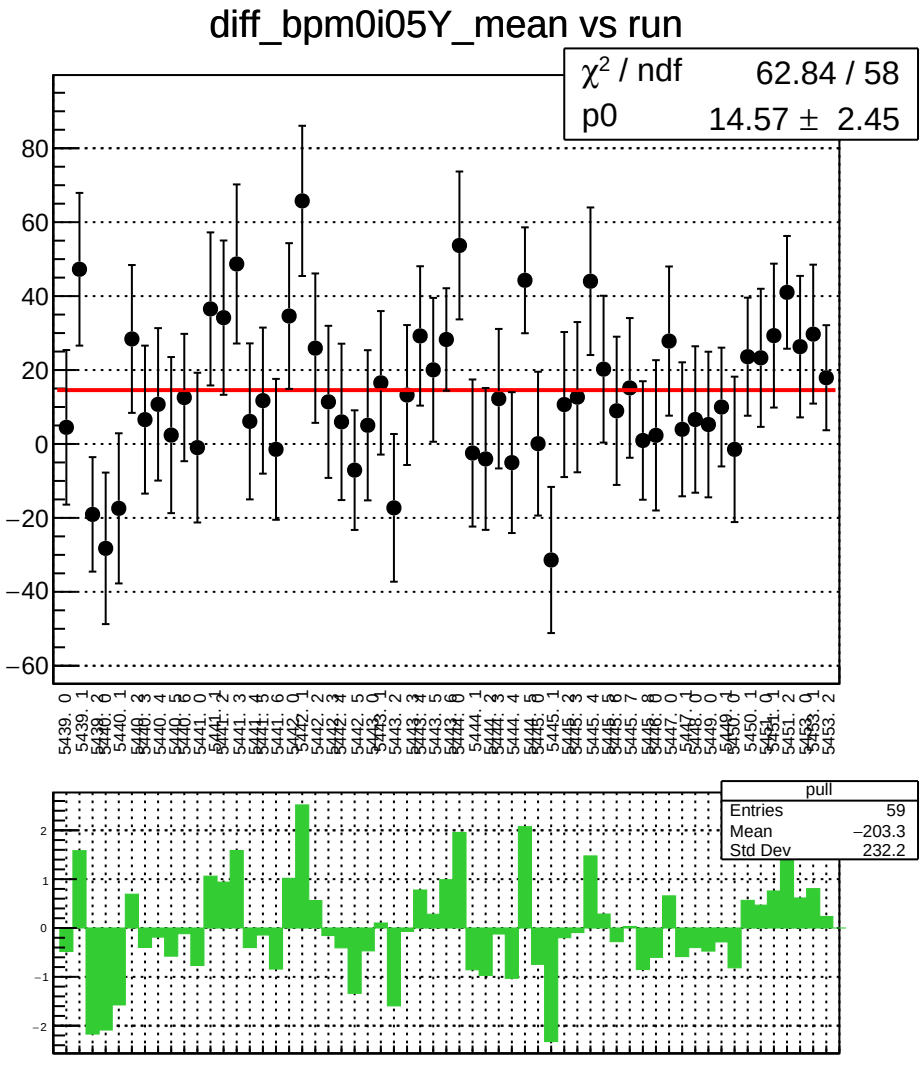

pull1D
Entries 59
Mean 0.02276
Std Dev 1.03

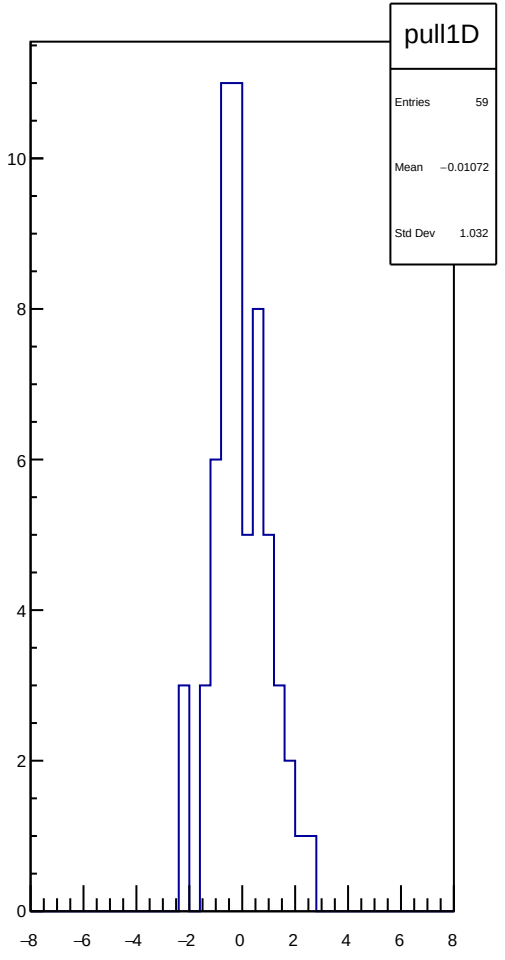

diff_bpm0i02aY_rms vs run
$\chi^2$ / ndf 395.1 / 58
p0 1468 ± 1.353
1540
1520
1500
1480
1460
1440
1420
1400

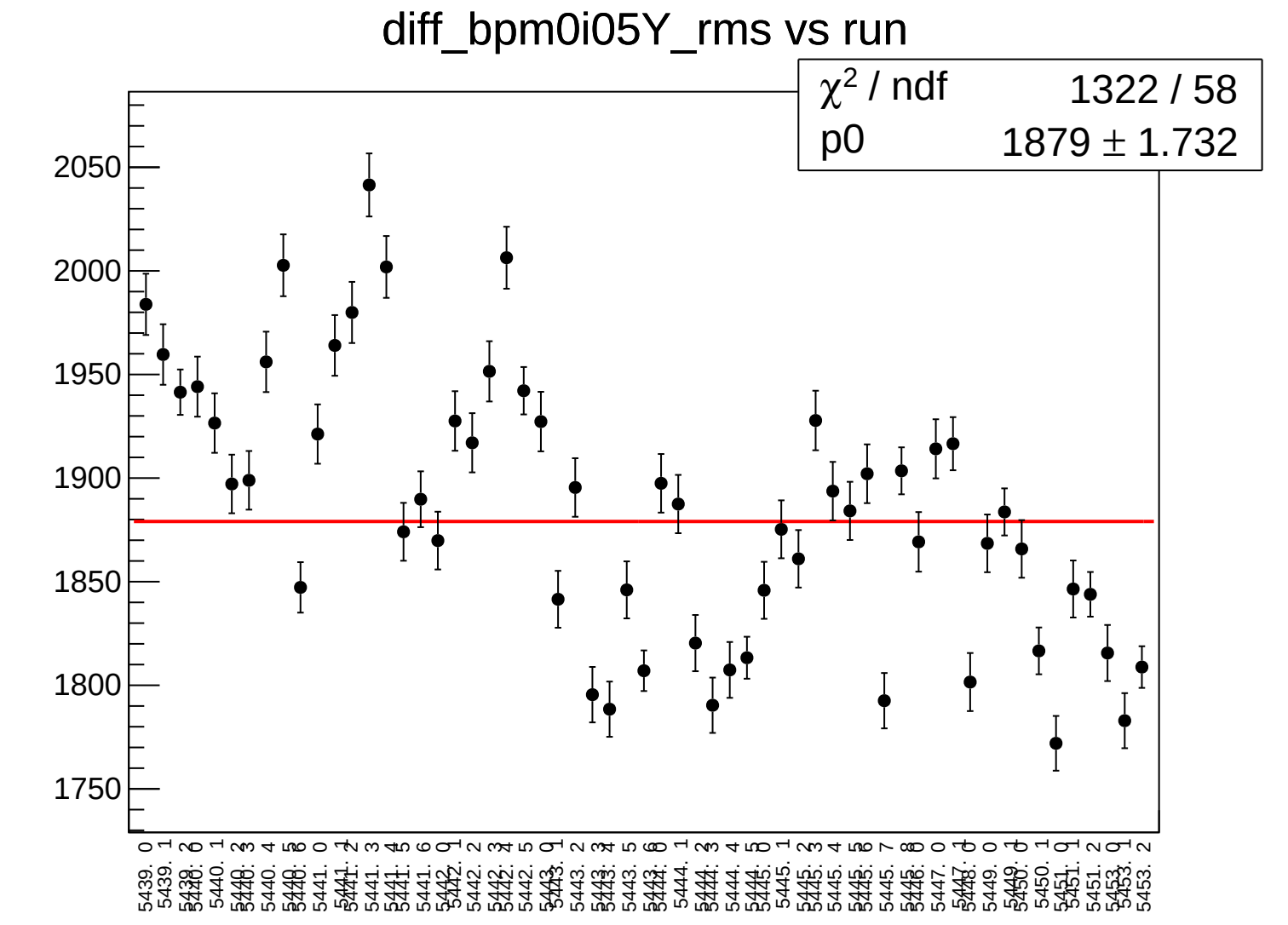

diff_bpm0i05X_mean vs run
χ² / ndf 65.75 / 58
p0 2.355 ± 2.042
pull
Entries 59
Mean −151.6
Std Dev 187.5

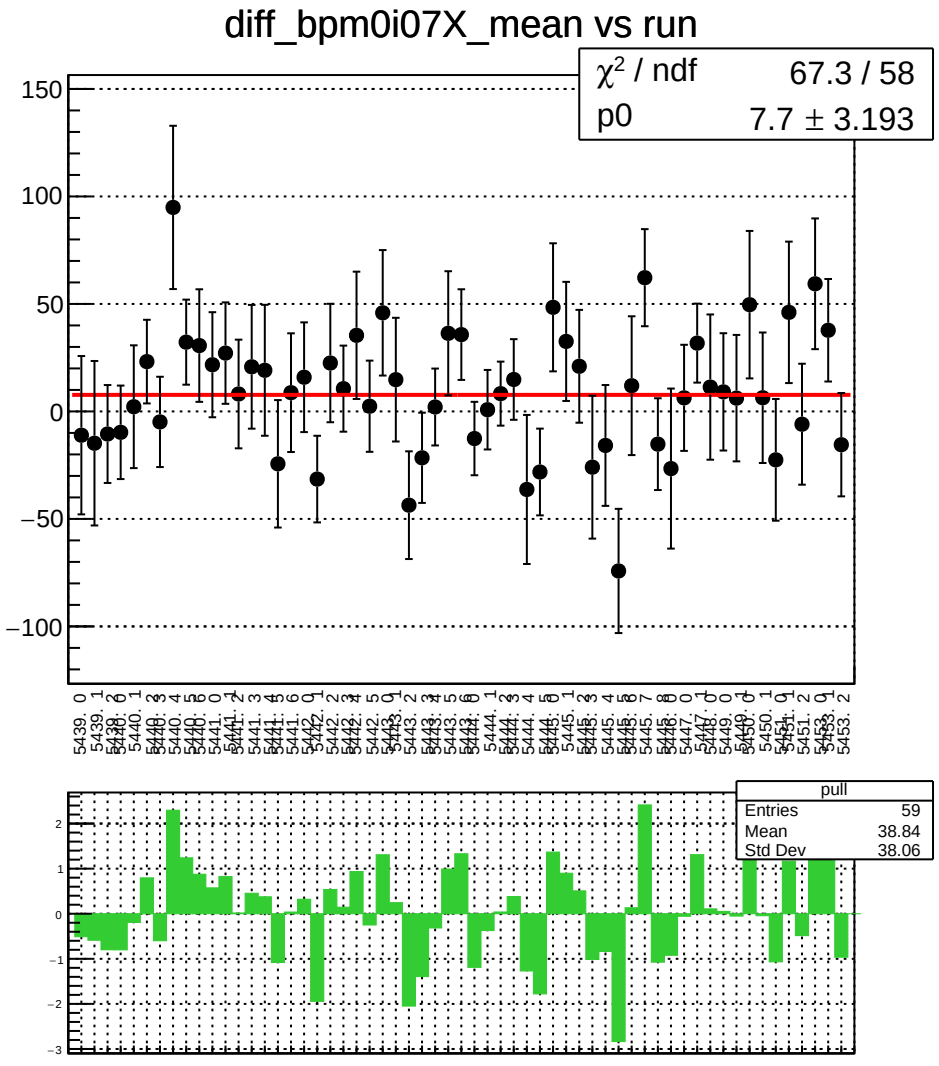

pull1D
Entries 59
Mean −0.0153
Std Dev 1.056

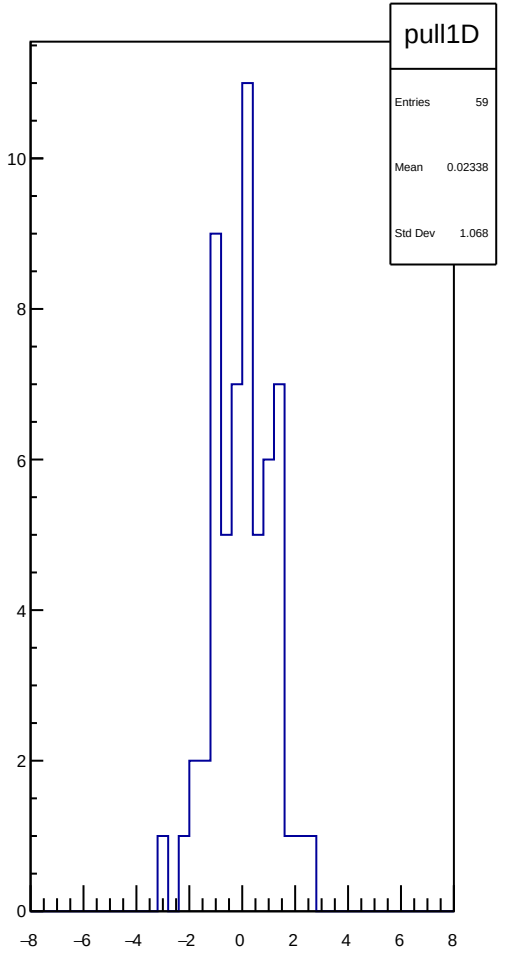

diff_bpm0i05X_rms vs run
χ² / ndf 1409 / 58
p0 1566 ± 1.444
1700
1650
1600
1550
1500
1450

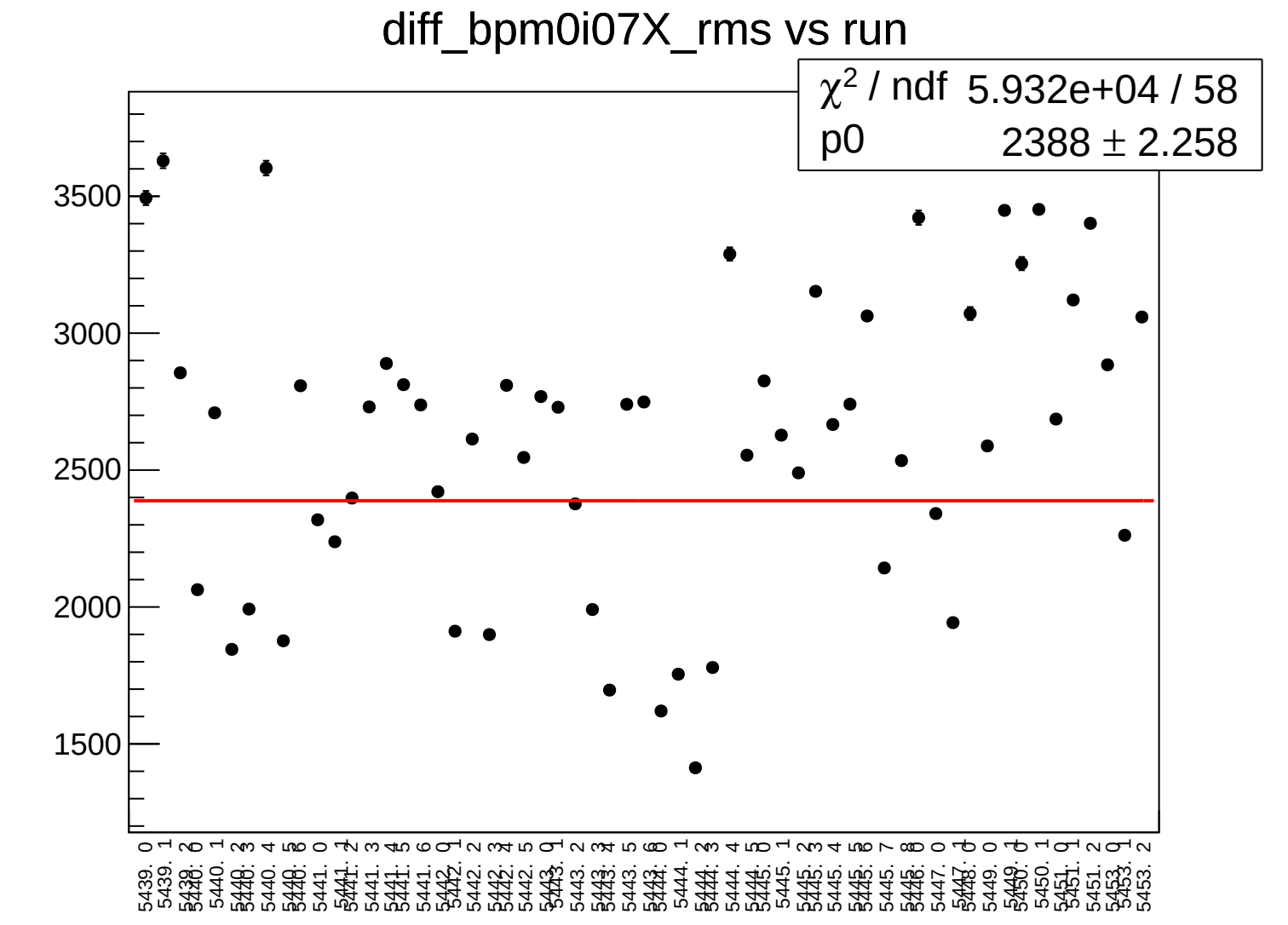

diff_bpm0i05Y_mean vs run
χ² / ndf 62.84 / 58
p0 14.57 ± 2.45
pull
Entries 59
Mean −203.3
Std Dev 232.2

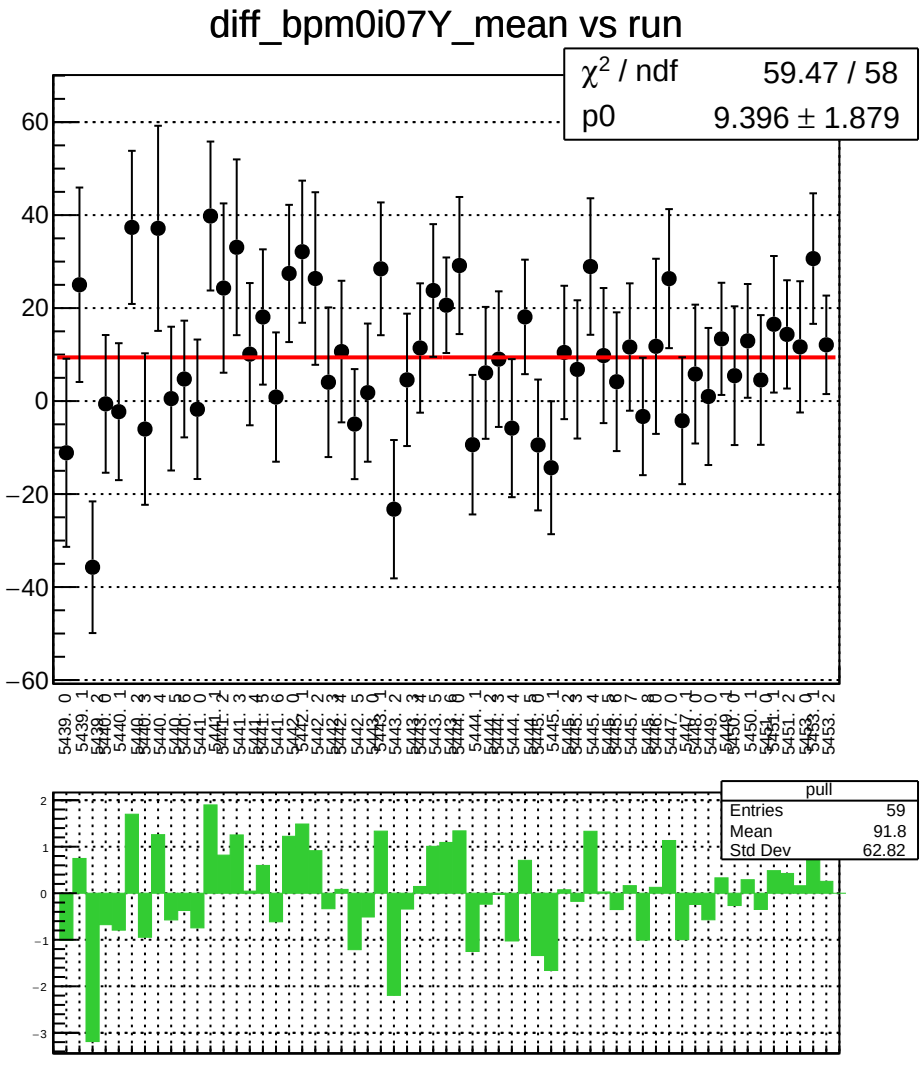

pull1D
Entries 59
Mean −0.01072
Std Dev 1.032

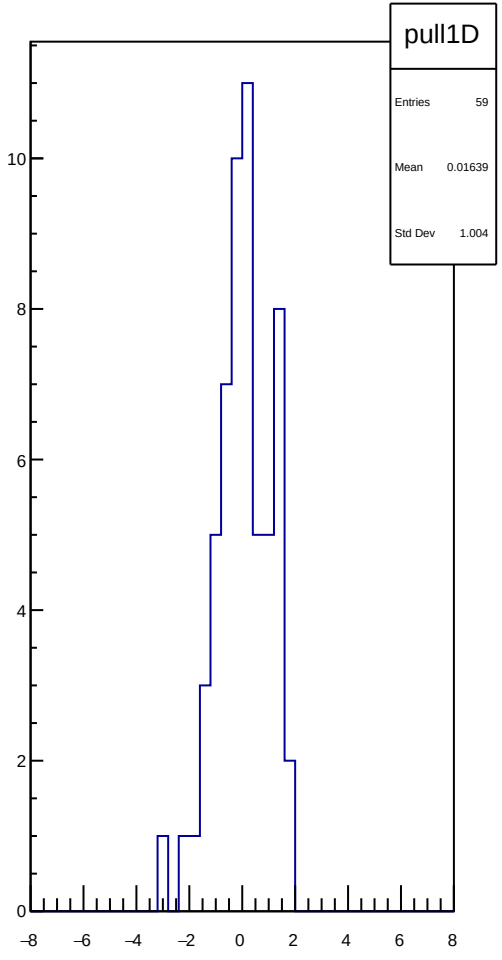

diff_bpm0i05Y_rms vs run
χ² / ndf 1322 / 58
p0 1879 ± 1.732
2050
2000
1950
1900
1850
1800
1750

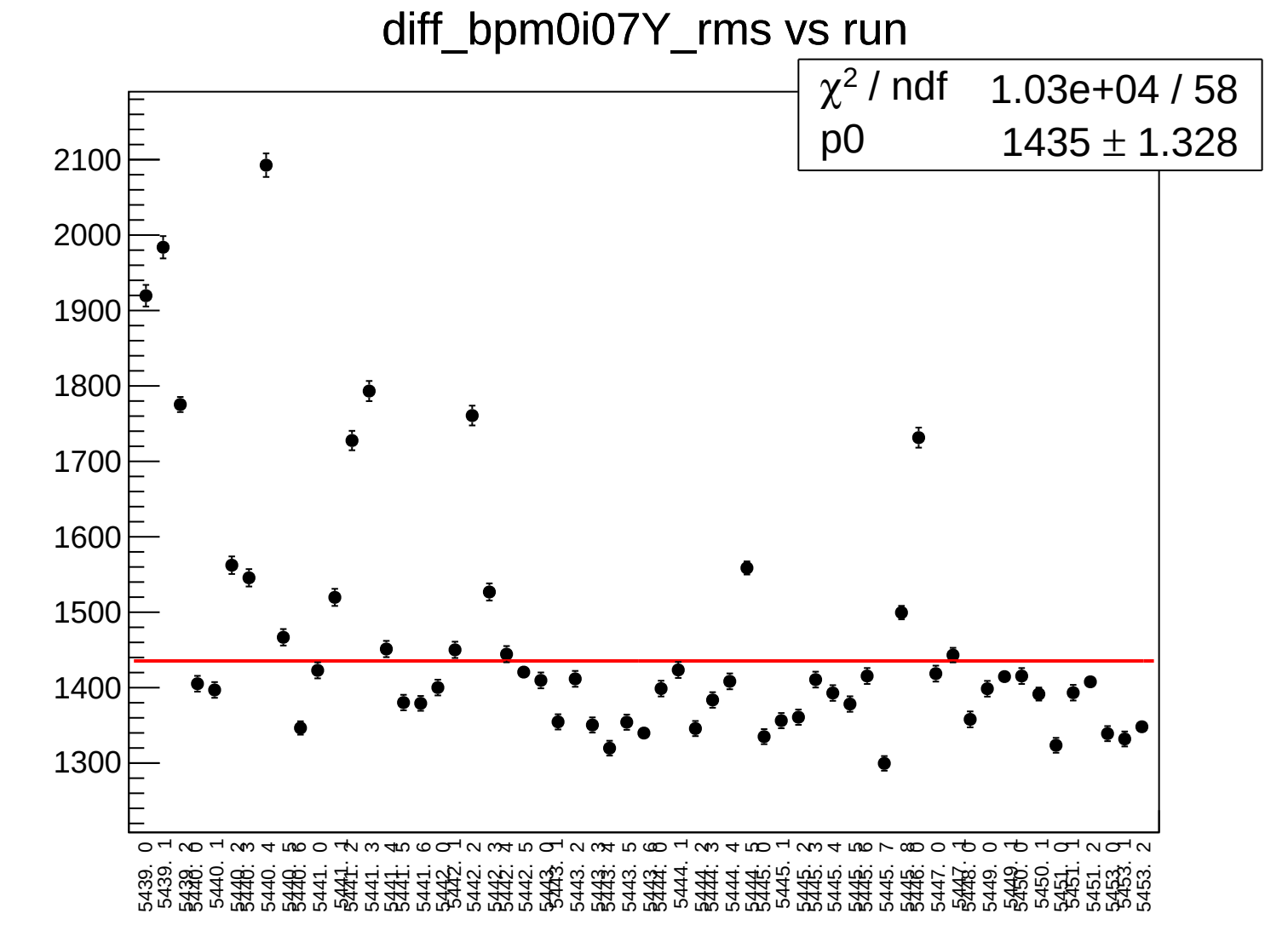

diff_bpm0i07X_mean vs run
χ² / ndf 67.3 / 58
p0 7.7 ± 3.193
pull
Entries 59
Mean 38.84
Std Dev 38.06

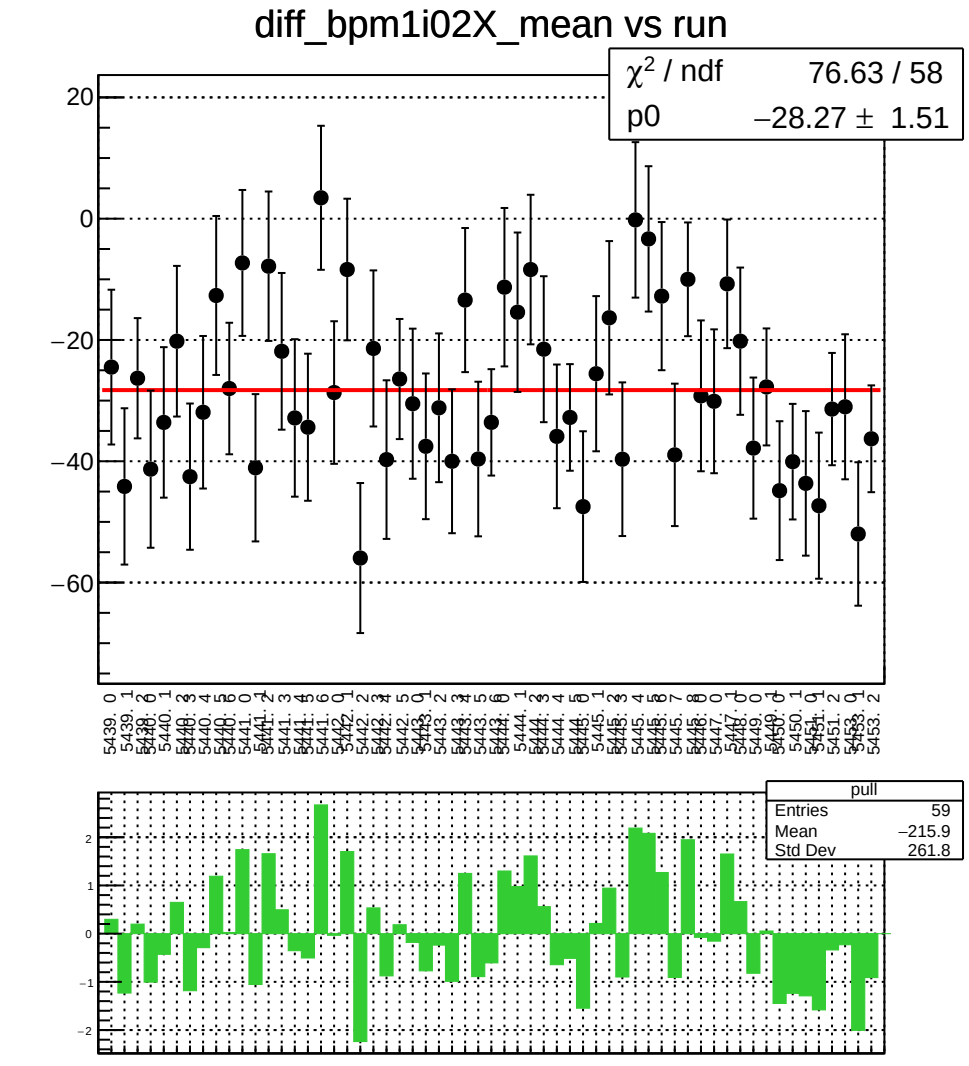

pull1D
Entries 59
Mean 0.02338
Std Dev 1.068

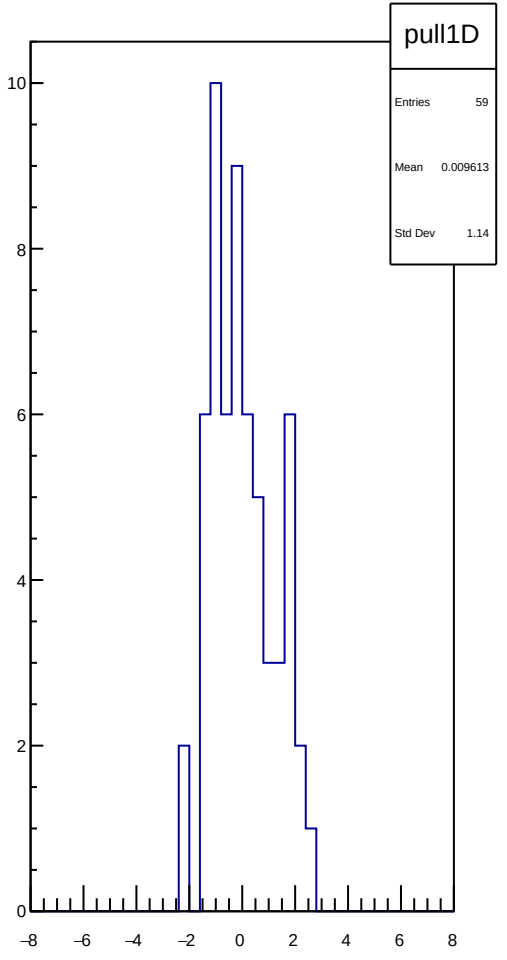

diff_bpm0i07X_rms vs run
$\chi^2$ / ndf 5.932e+04 / 58
p0 2388 ± 2.258
3500
3000
2500
2000
1500

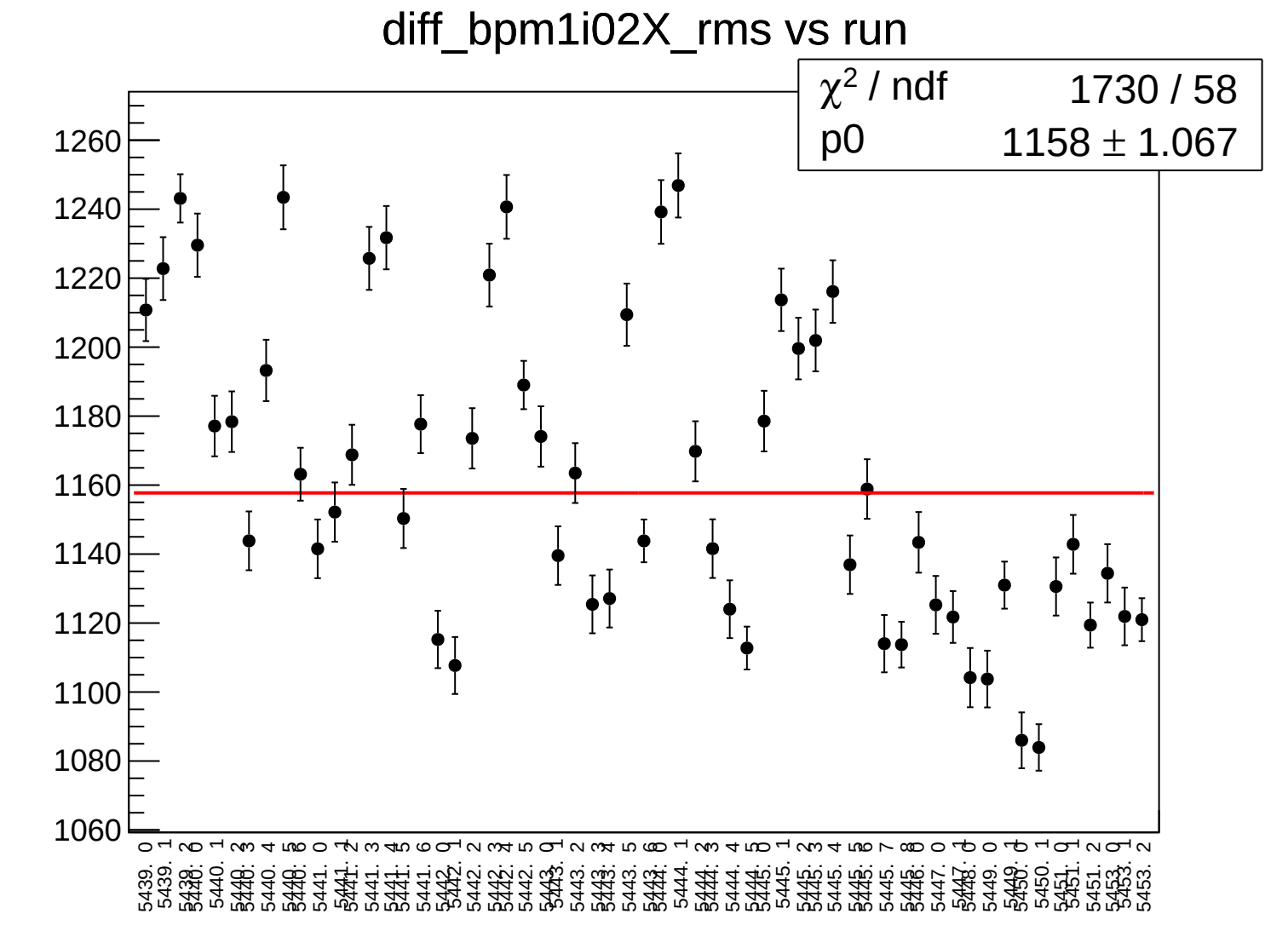

diff_bpm0i07Y_mean vs run
χ² / ndf 59.47 / 58
p0 9.396 ± 1.879
pull
Entries 59
Mean 91.8
Std Dev 62.82

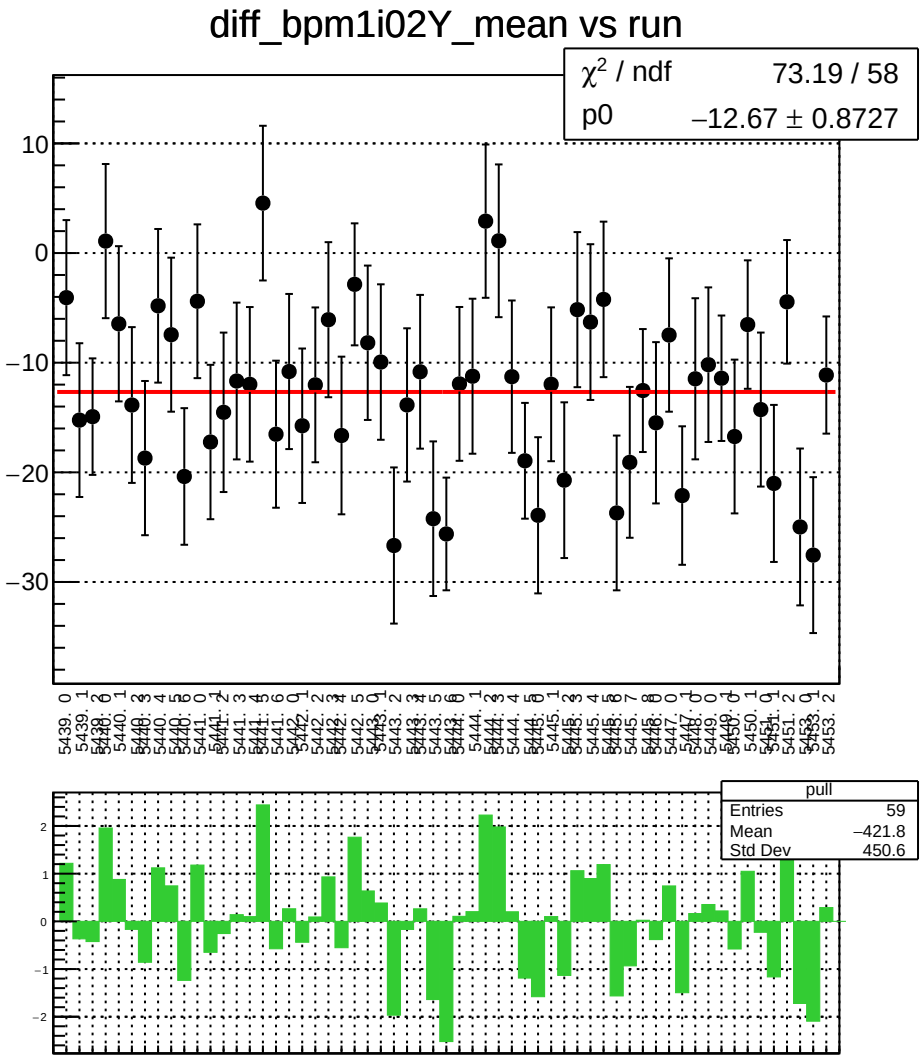

pull1D
Entries 59
Mean 0.01639
Std Dev 1.004

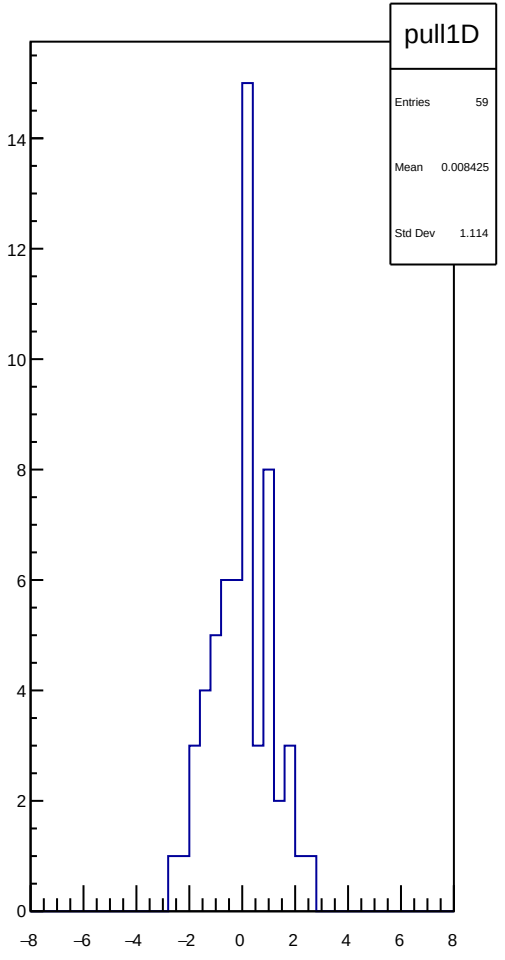

diff_bpm0i07Y_rms vs run
χ² / ndf 1.03e+04 / 58
p0 1435 ± 1.328
2100
2000
1900
1800
1700
1600
1500
1400
1300

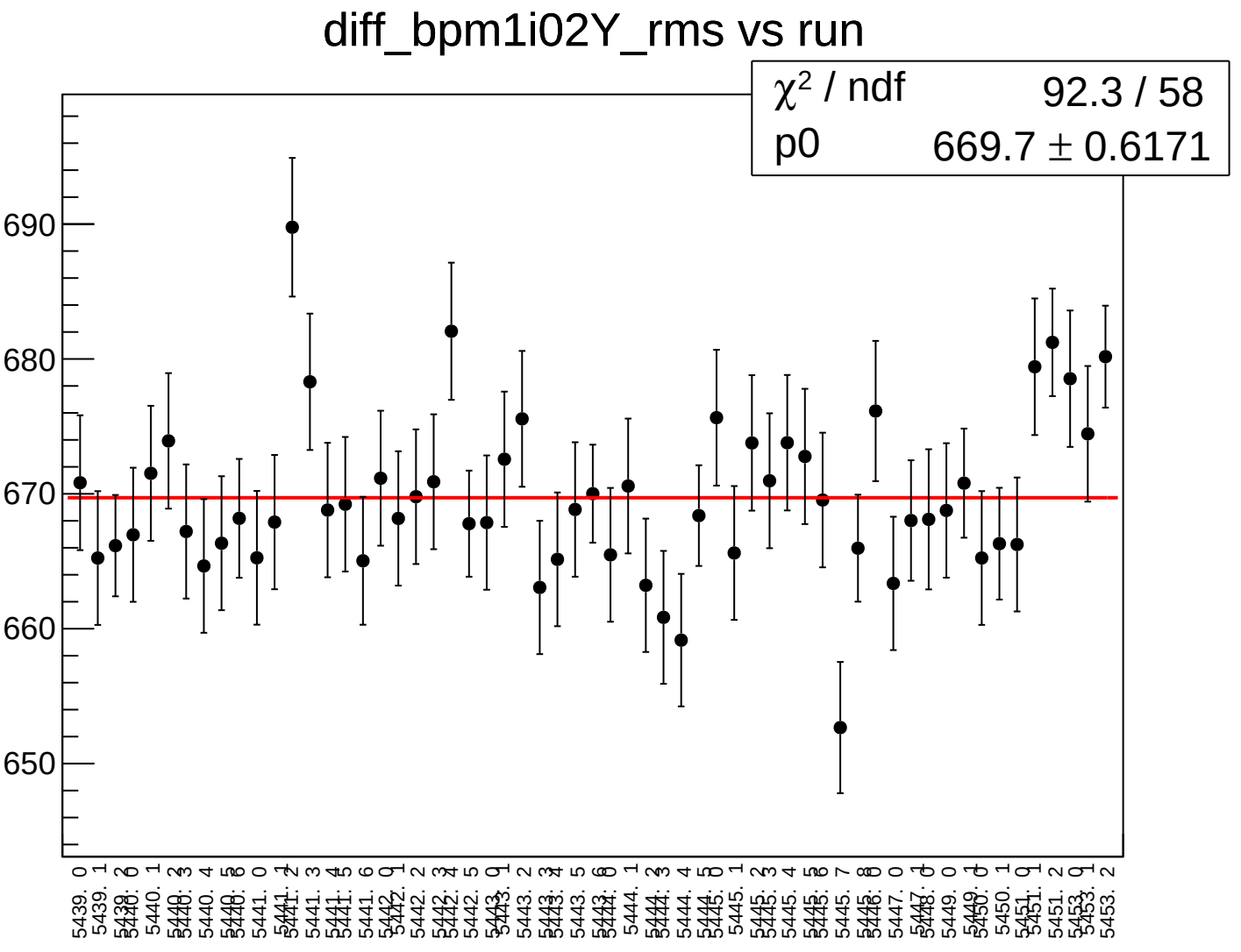

diff_bpm1i02X_mean vs run
χ² / ndf 76.63 / 58
p0 −28.27 ± 1.51
pull
Entries 59
Mean −215.9
Std Dev 261.8

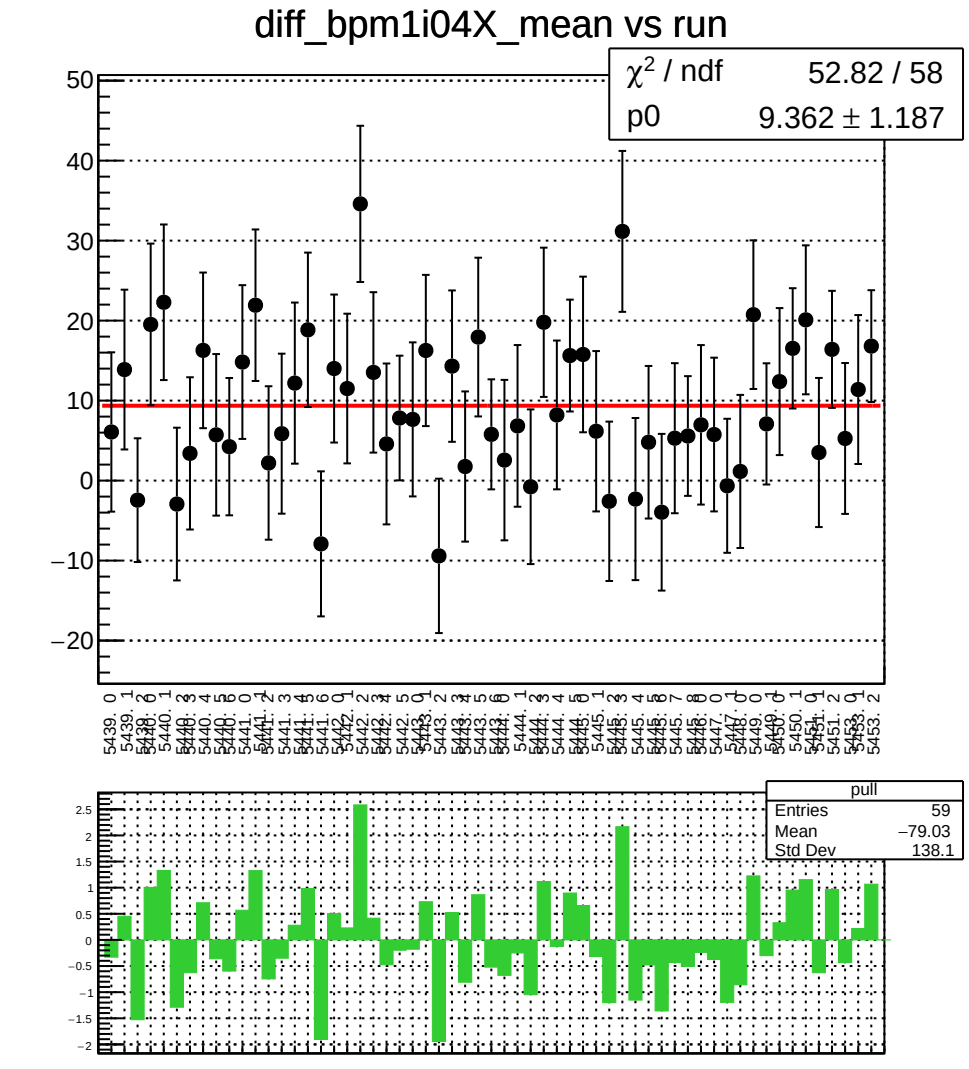

pull1D
Entries 59
Mean 0.009613
Std Dev 1.14

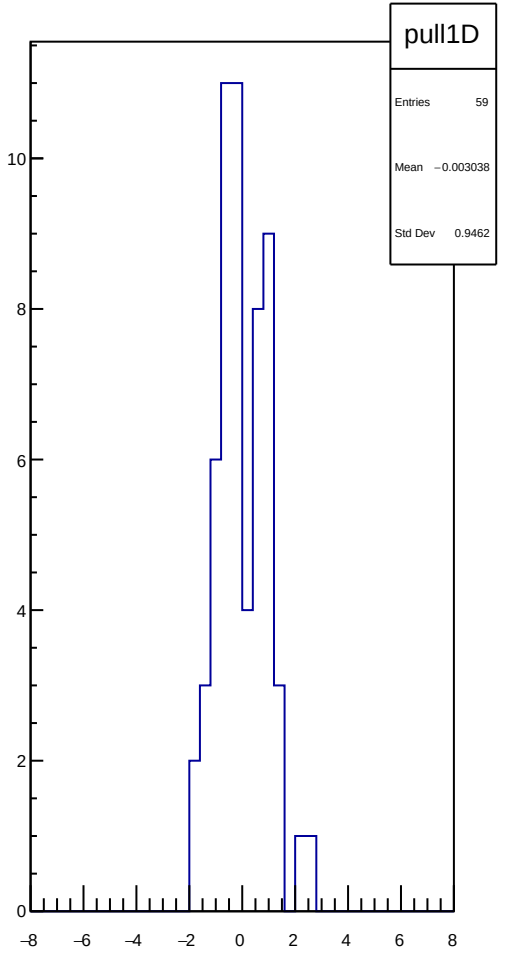

diff_bpm1i02X_rms vs run
χ² / ndf 1730 / 58
p0 1158 ± 1.067
1260
1240
1220
1200
1180
1160
1140
1120
1100
1080
1060

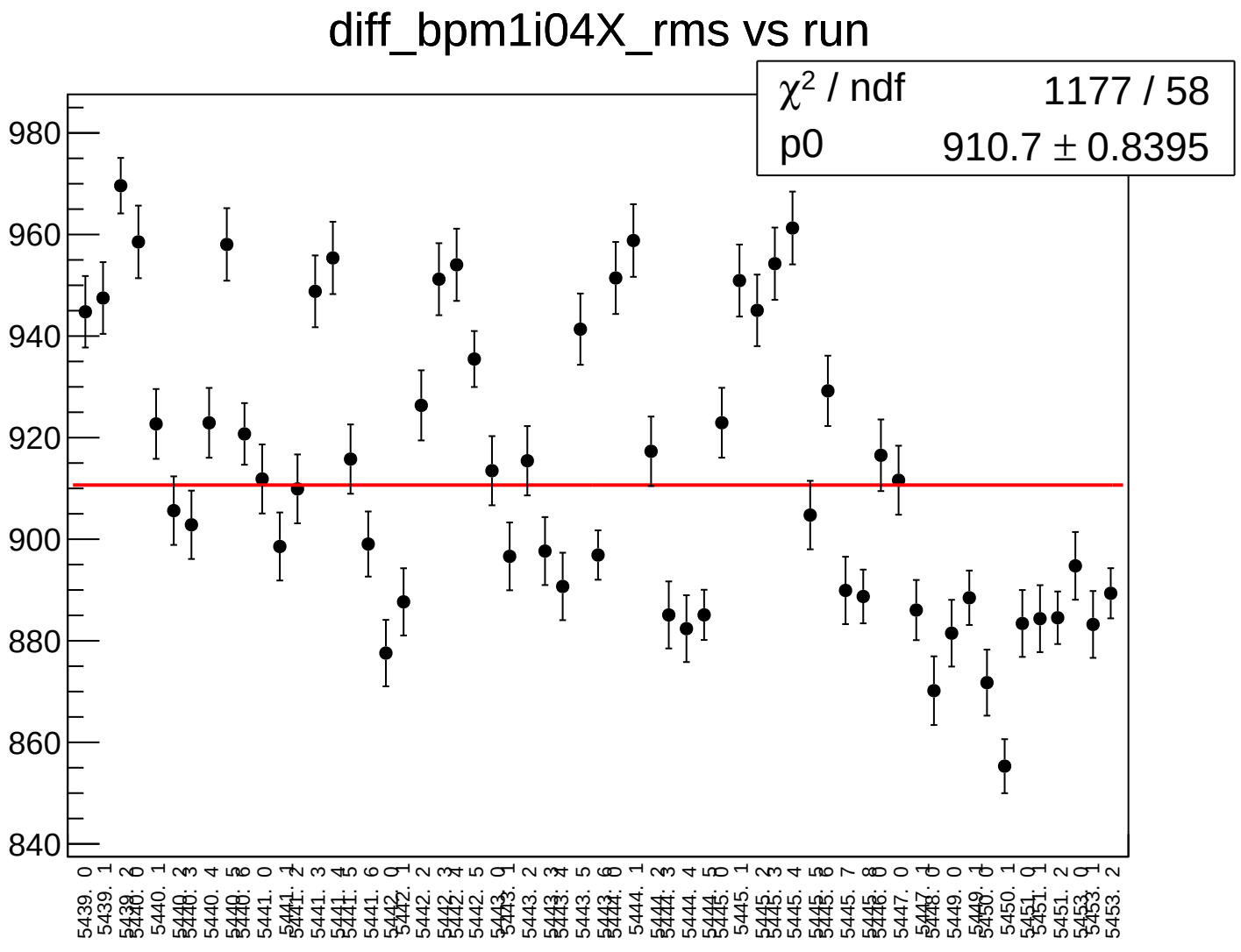

diff_bpm1i02Y_mean vs run
χ² / ndf 73.19 / 58
p0 −12.67 ± 0.8727
pull
Entries 59
Mean −421.8
Std Dev 450.6

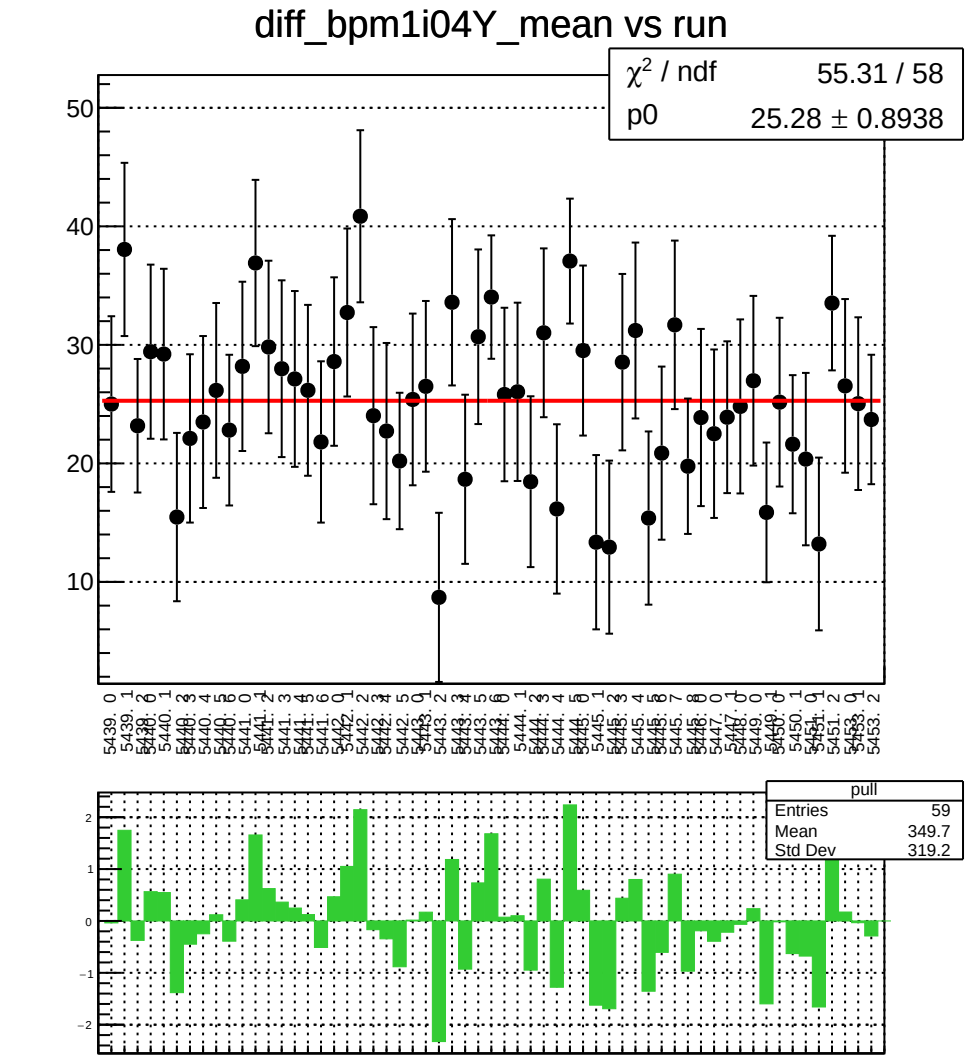

pull1D
Entries 59
Mean 0.008425
Std Dev 1.114

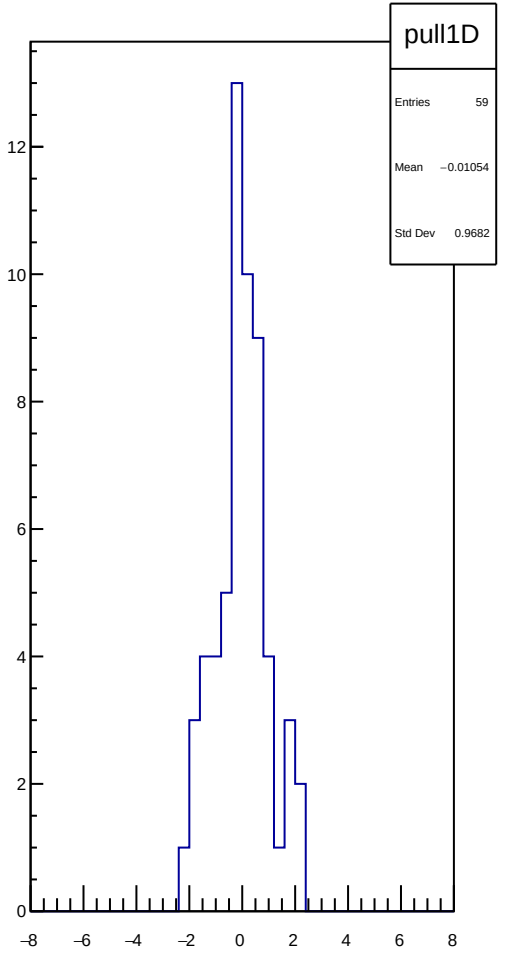

diff_bpm1i02Y_rms vs run
χ² / ndf 92.3 / 58
p0 669.7 ± 0.6171
690
680
670
660
650

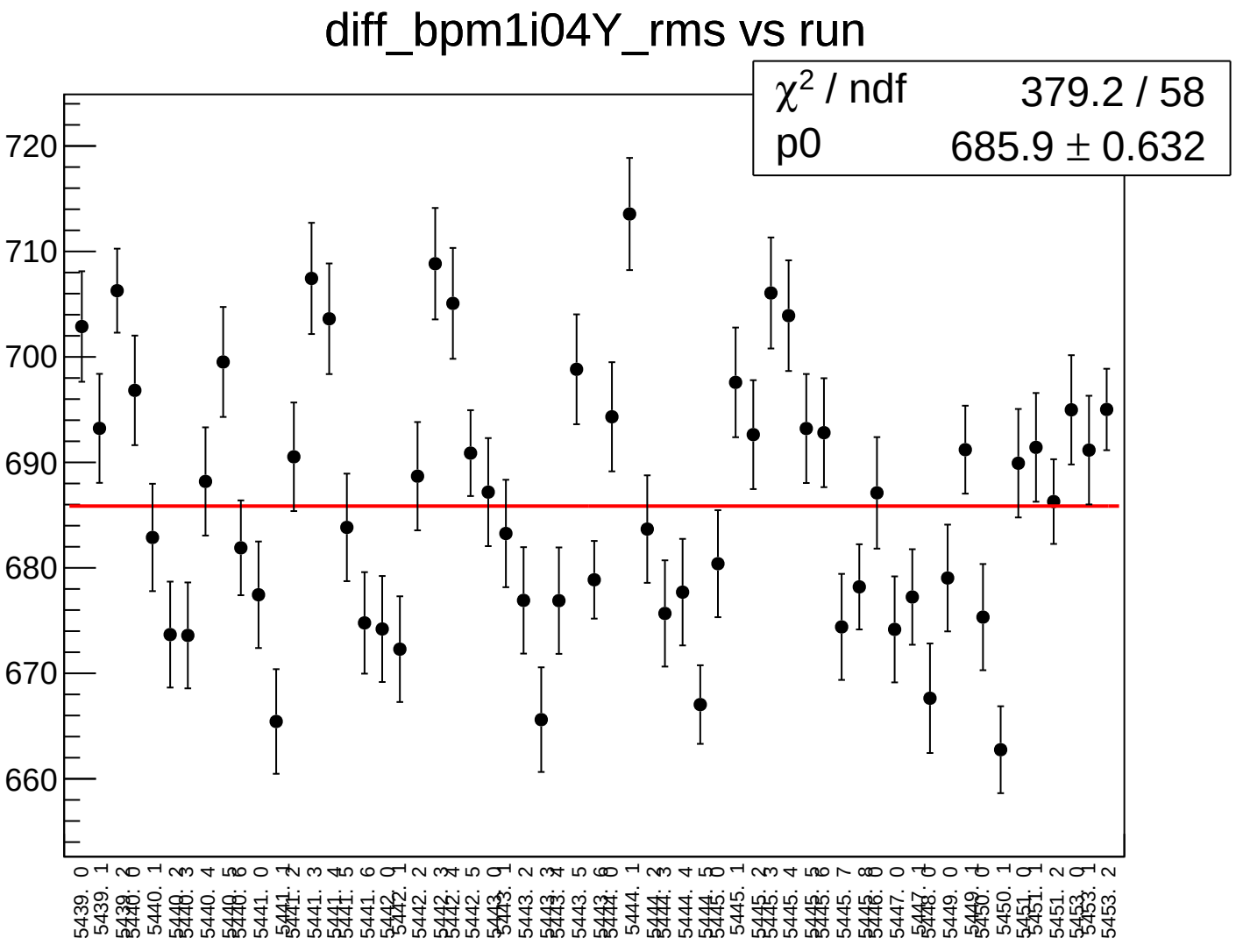

diff_bpm1i04X_mean vs run
χ² / ndf 52.82 / 58
p0 9.362 ± 1.187
pull
Entries 59
Mean −79.03
Std Dev 138.1

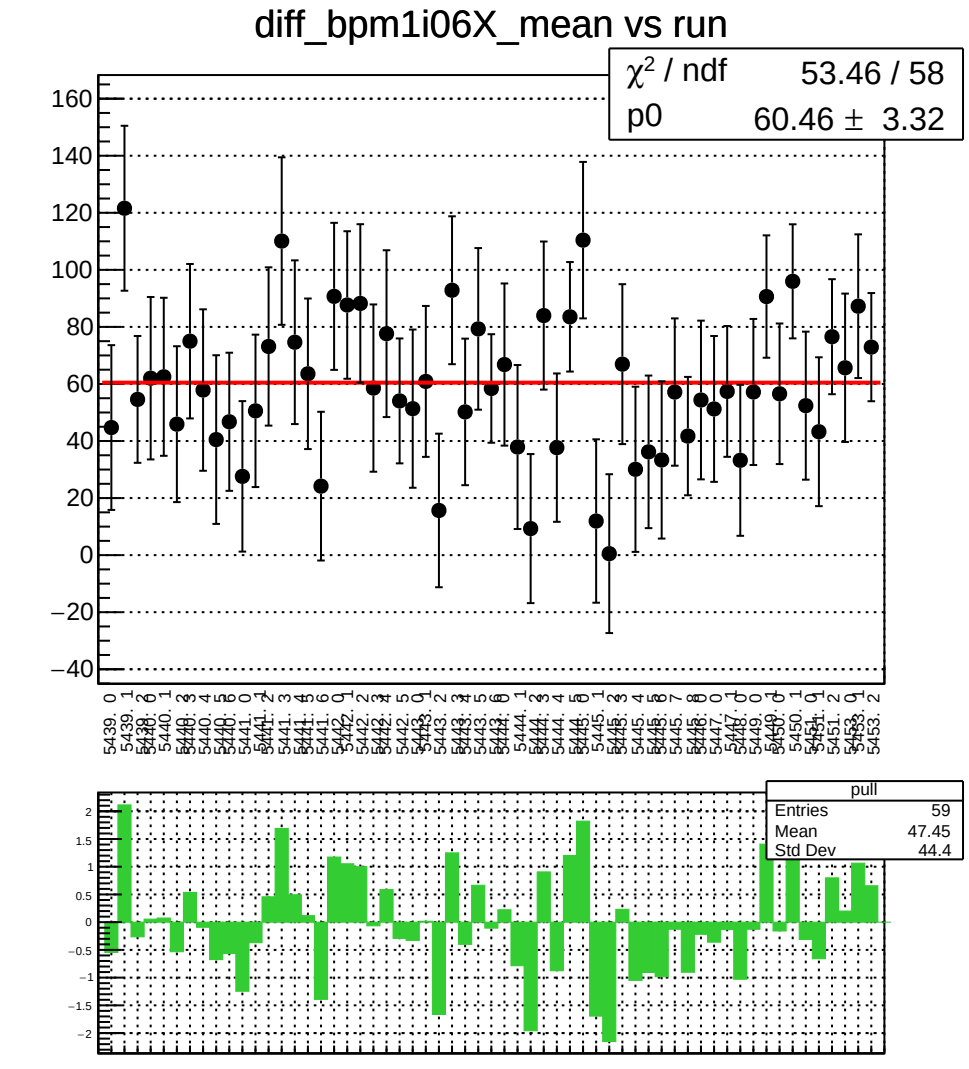

pull1D
Entries 59
Mean −0.003038
Std Dev 0.9462

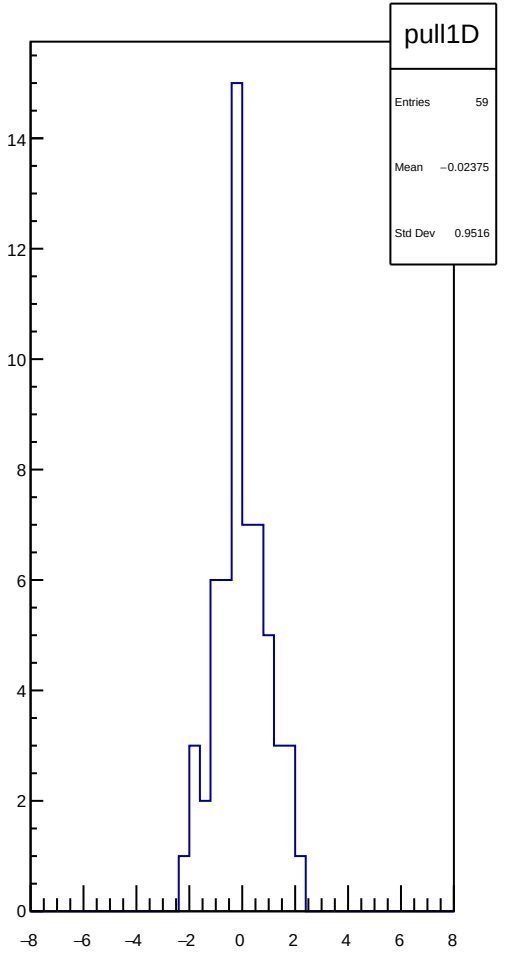

diff_bpm1i04X_rms vs run
χ² / ndf 1177 / 58
p0 910.7 ± 0.8395
980
960
940
920
900
880
860
840

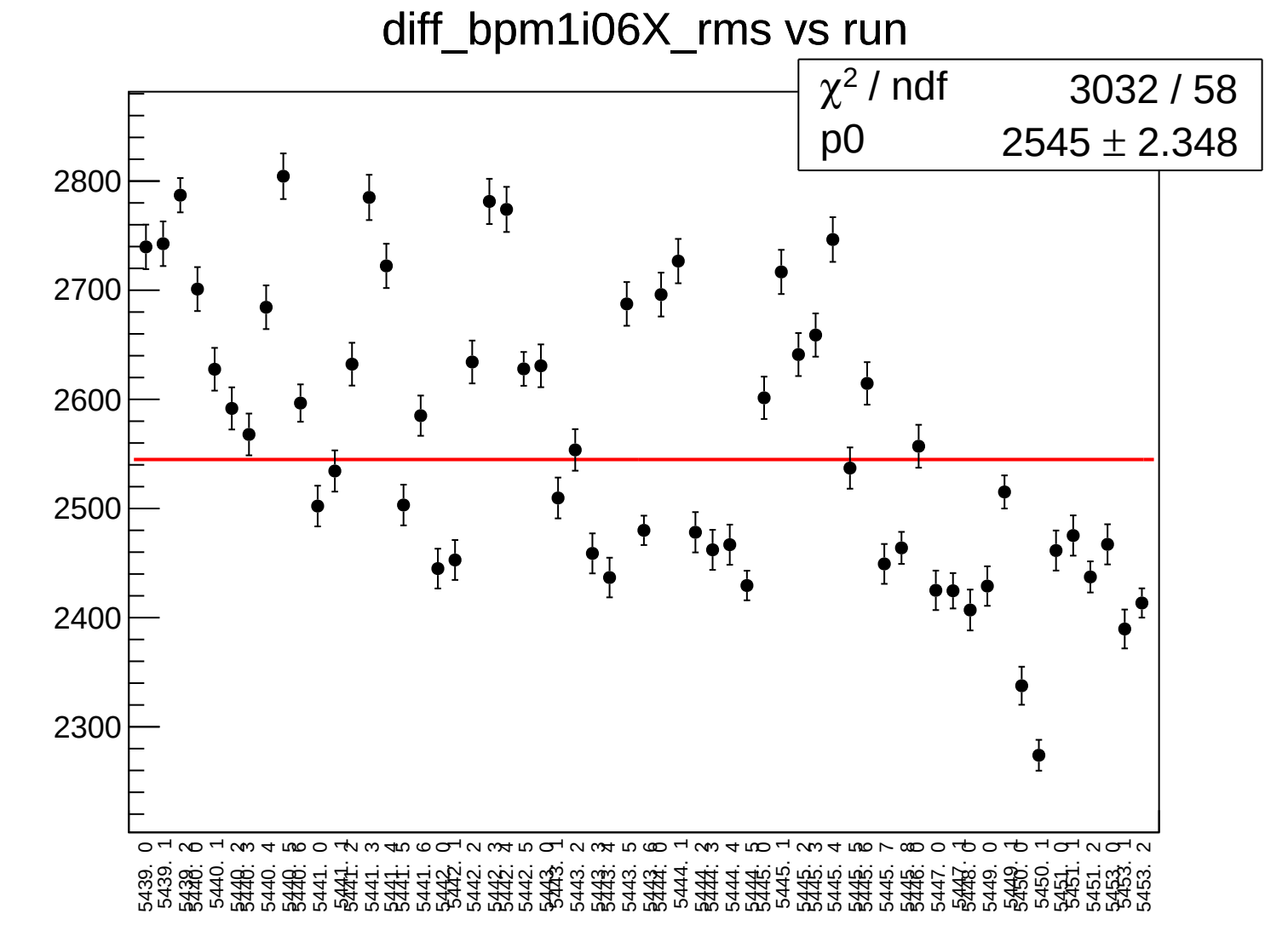

diff_bpm1i04Y_mean vs run
χ² / ndf 55.31 / 58
p0 25.28 ± 0.8938
pull
Entries 59
Mean 349.7
Std Dev 319.2

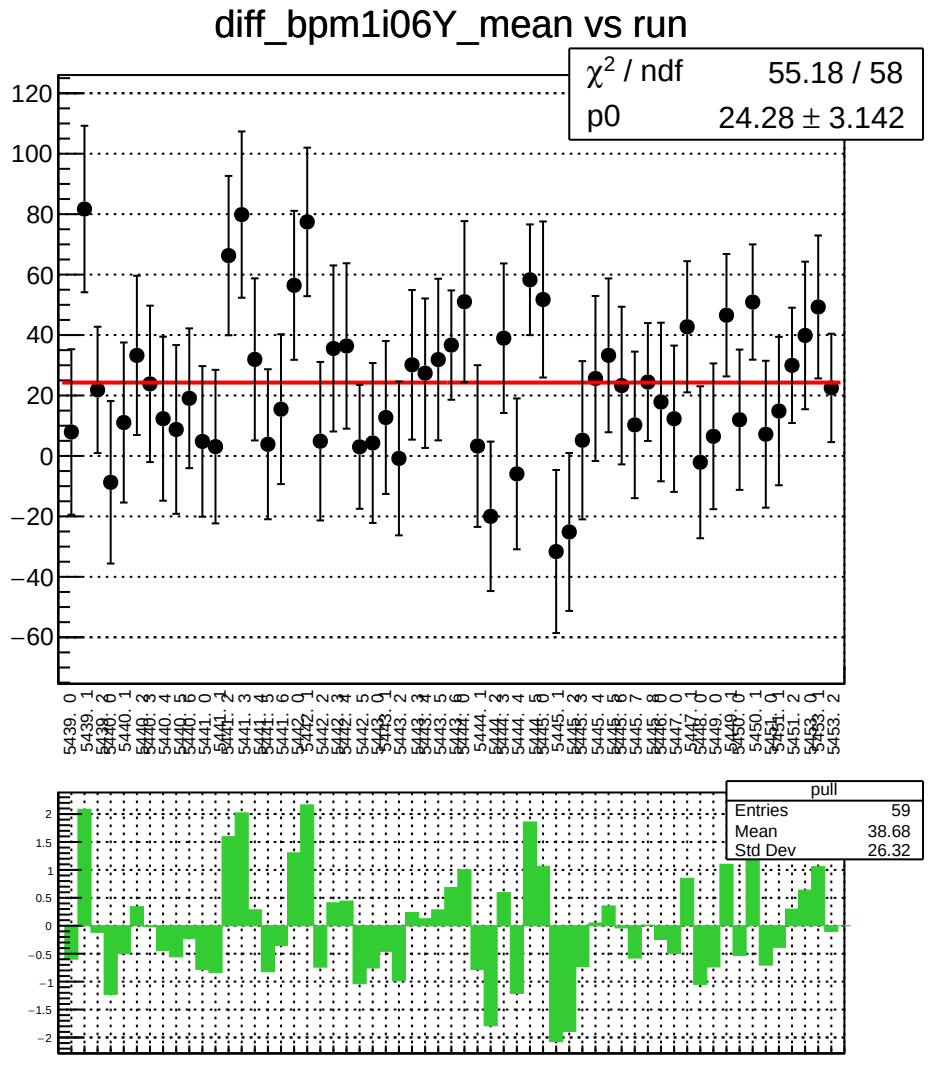

pull1D
Entries 59
Mean −0.01054
Std Dev 0.9682

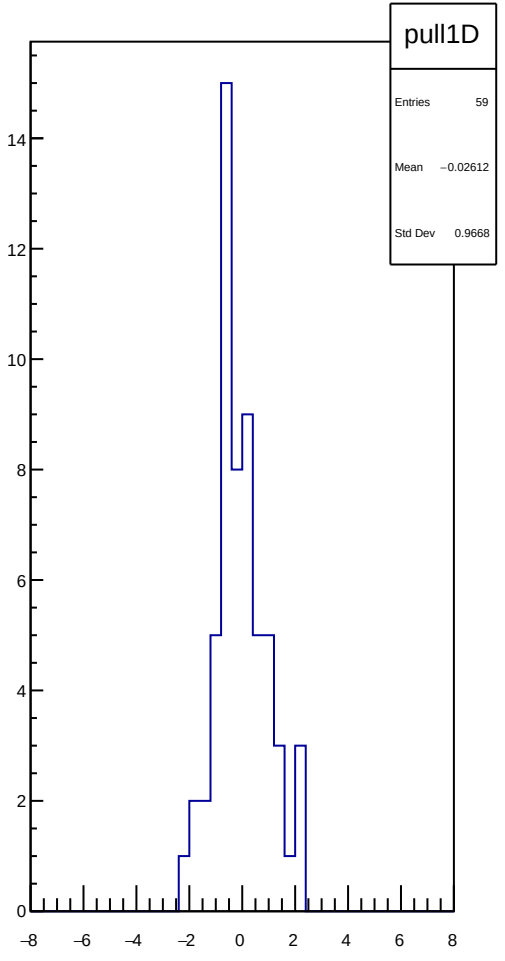

diff_bpm1i04Y_rms vs run
χ² / ndf 379.2 / 58
p0 685.9 ± 0.632
720
710
700
690
680
670
660

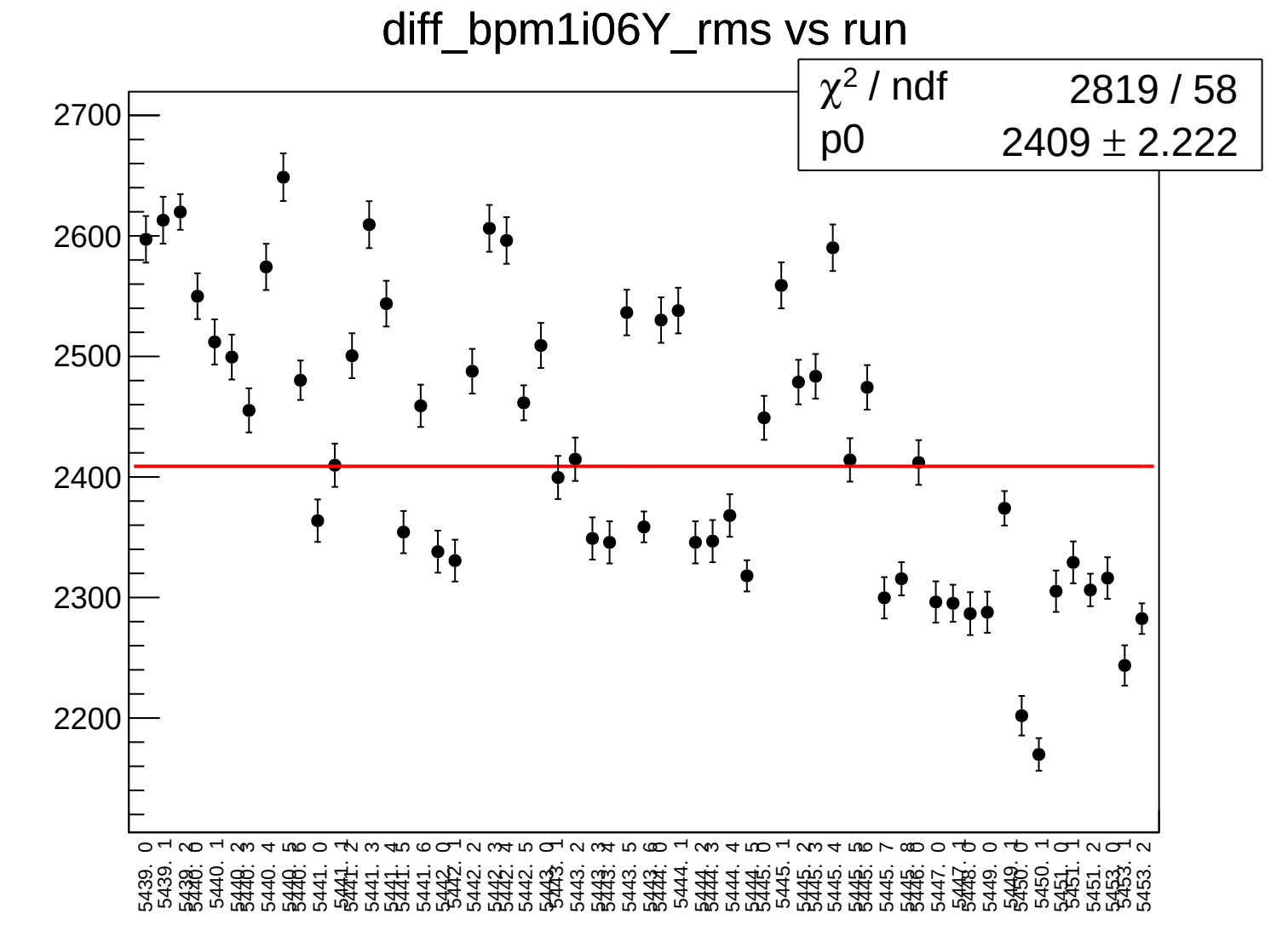

diff_bpm1i06X_mean vs run
χ² / ndf 53.46 / 58
p0 60.46 ± 3.32
pull
Entries 59
Mean 47.45
Std Dev 44.4

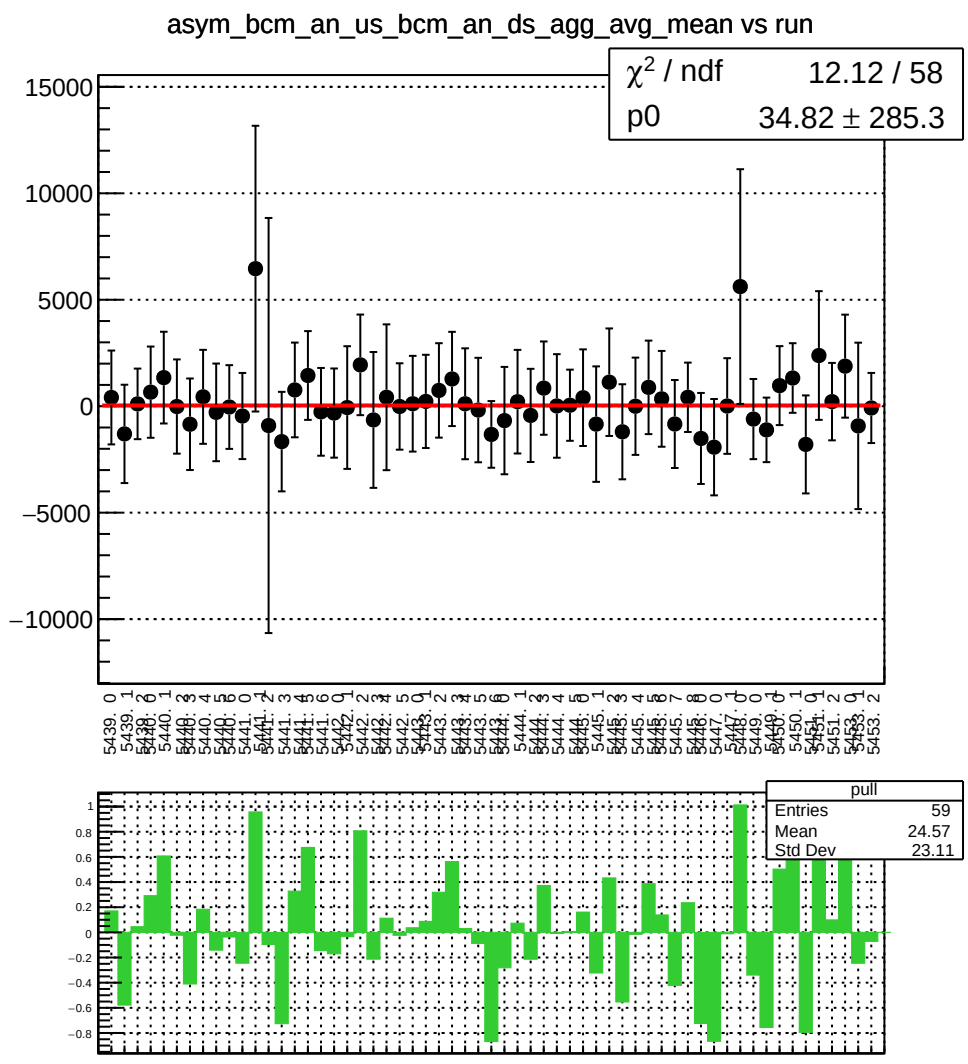

pull1D
Entries 59
Mean −0.02375
Std Dev 0.9516

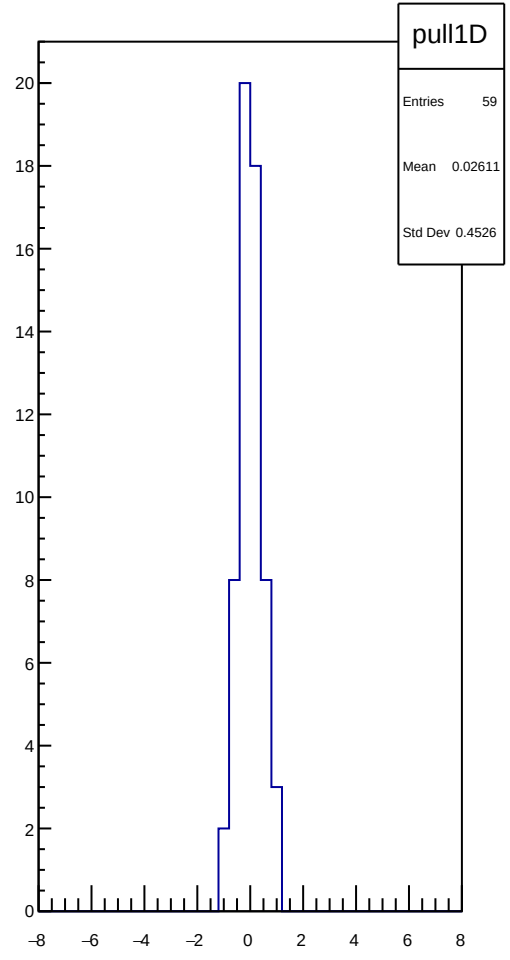

diff_bpm1i06X_rms vs run
χ² / ndf 3032 / 58
p0 2545 ± 2.348
2800
2700
2600
2500
2400
2300

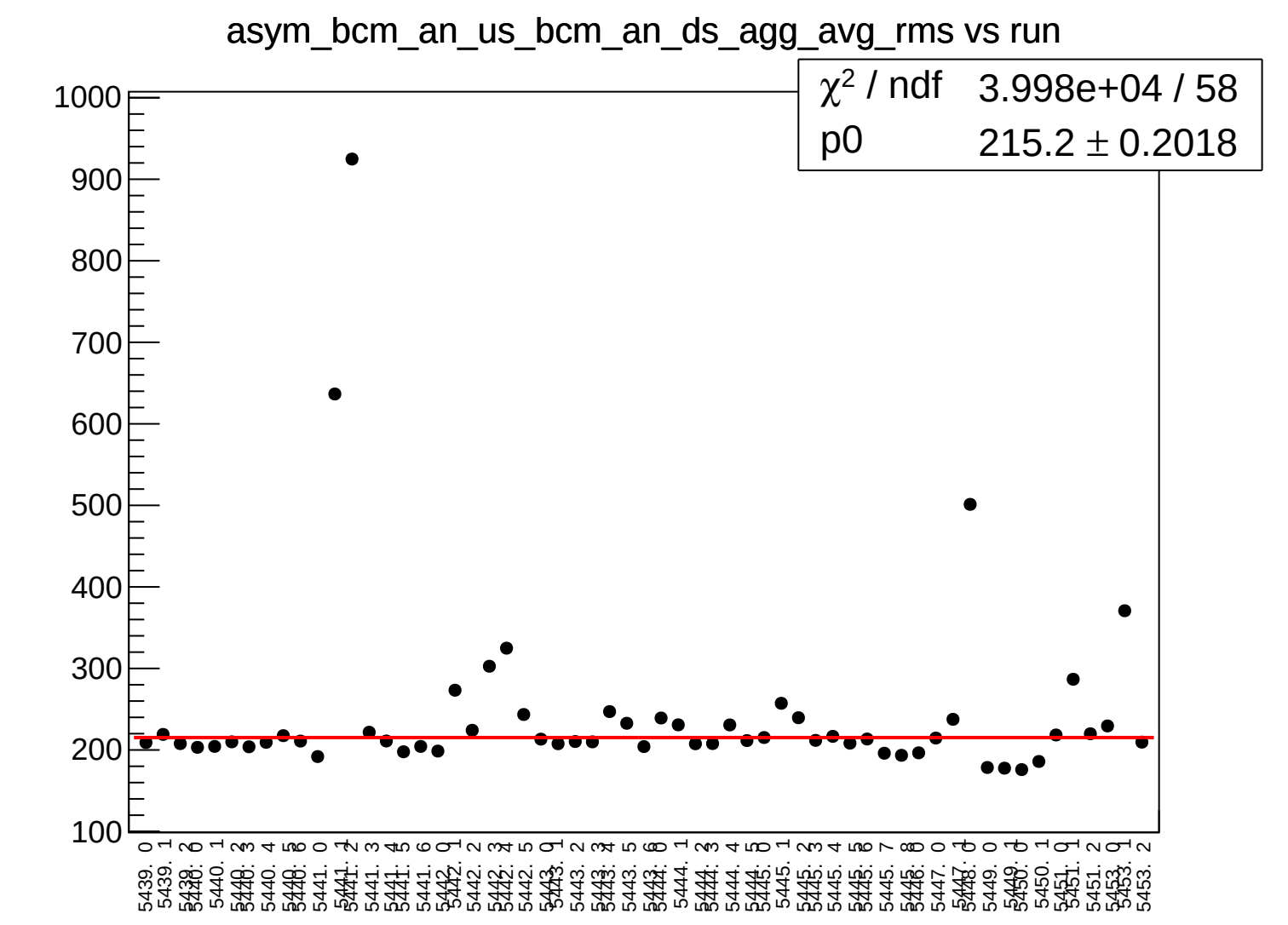

diff_bpm1i06Y_mean vs run
χ² / ndf 55.18 / 58
p0 24.28 ± 3.142
pull
Entries 59
Mean 38.68
Std Dev 26.32

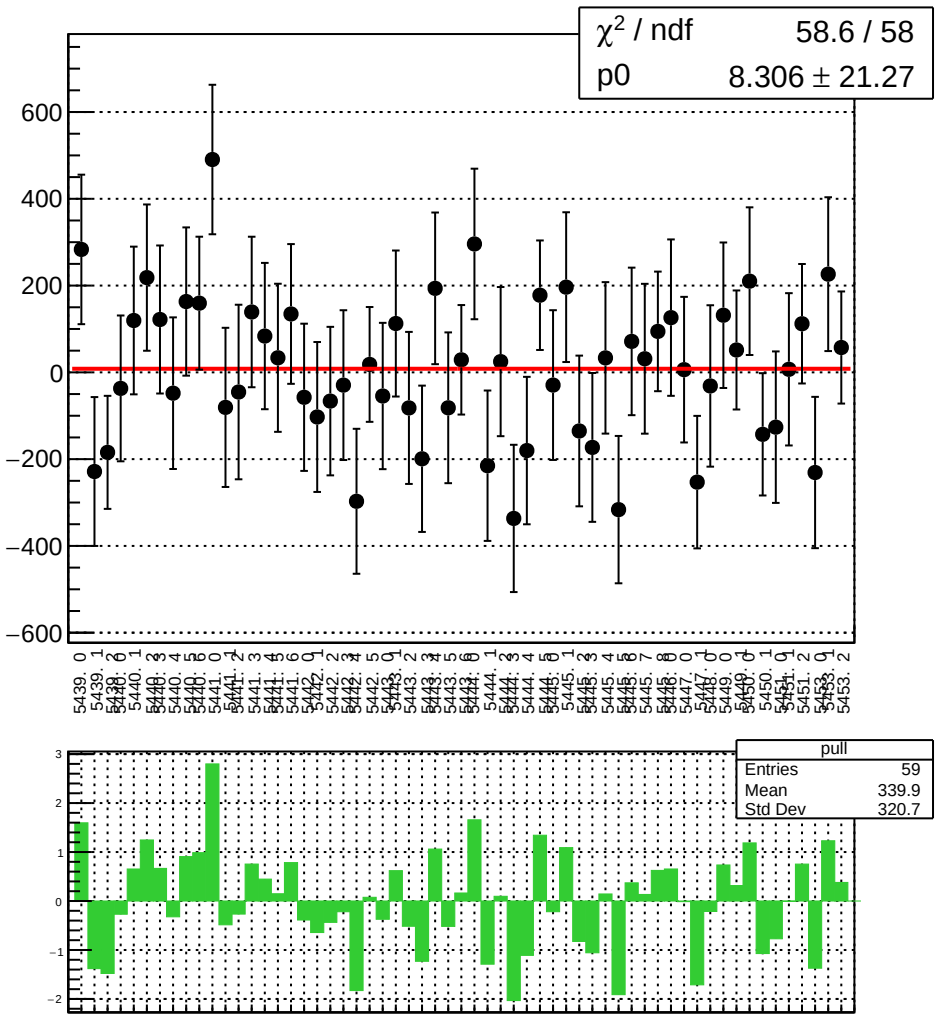

pull1D
Entries 59
Mean −0.02612
Std Dev 0.9668

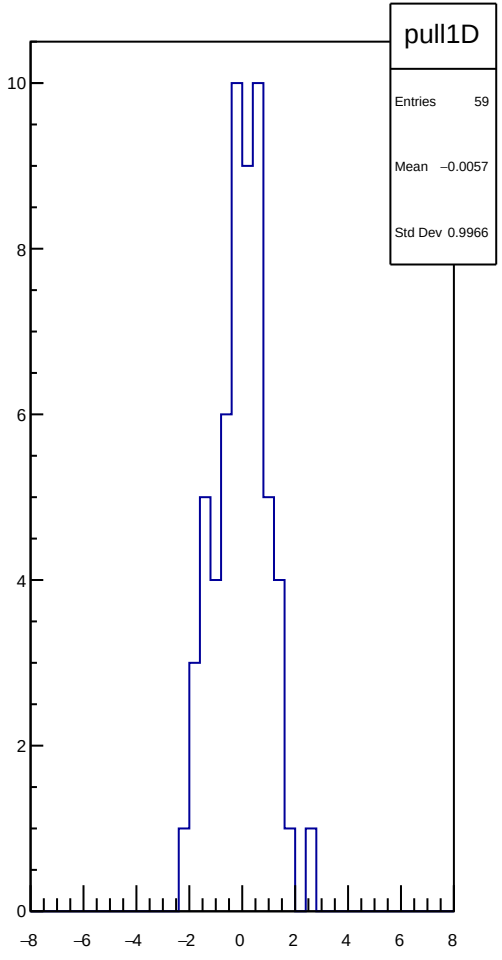

diff_bpm1i06Y_rms vs run
χ² / ndf 2819 / 58
p0 2409 ± 2.222
2700
2600
2500
2400
2300
2200

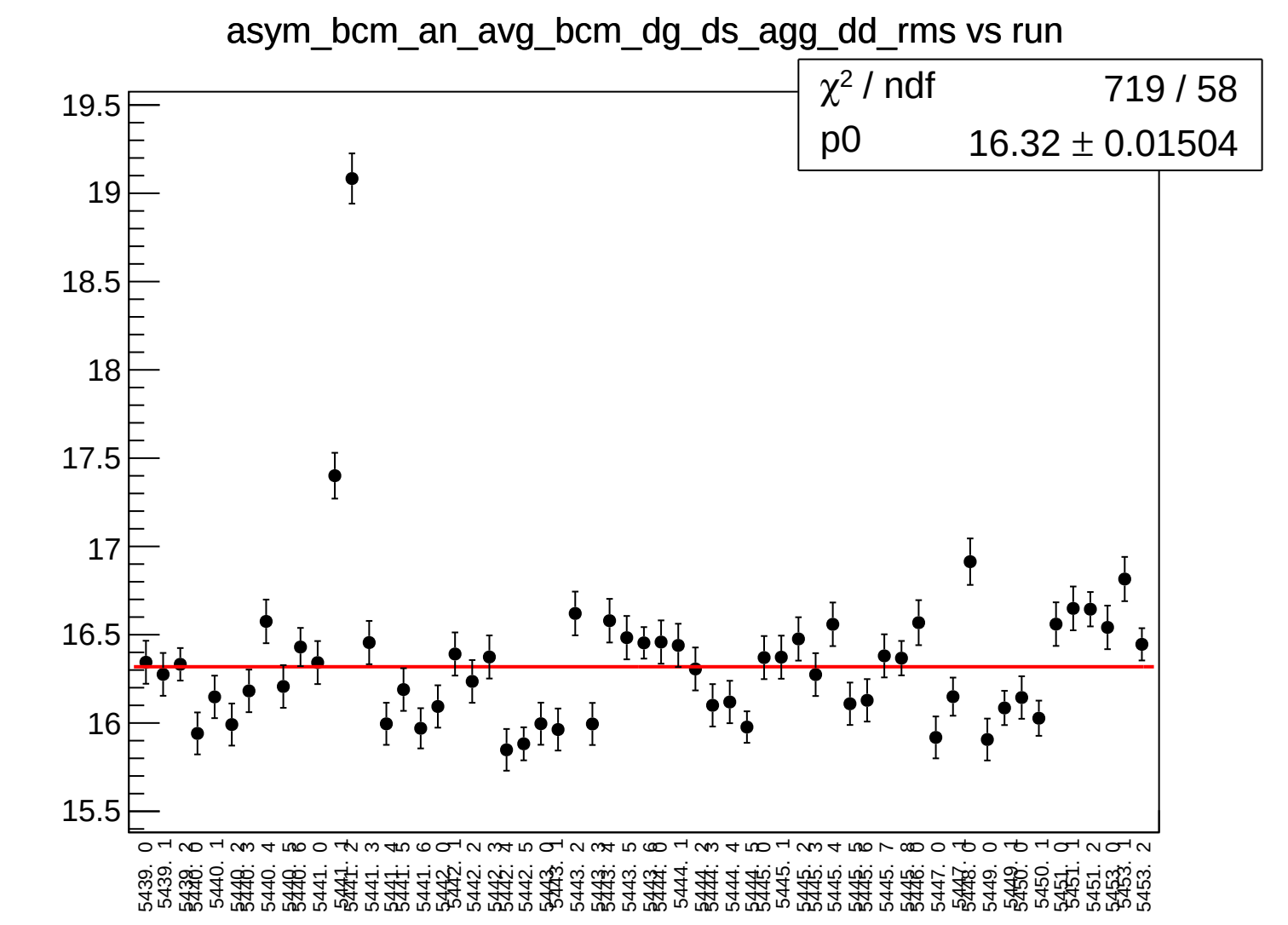

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.12 / 58
p0 34.82 ± 285.3
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 24.57
Std Dev 23.11
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

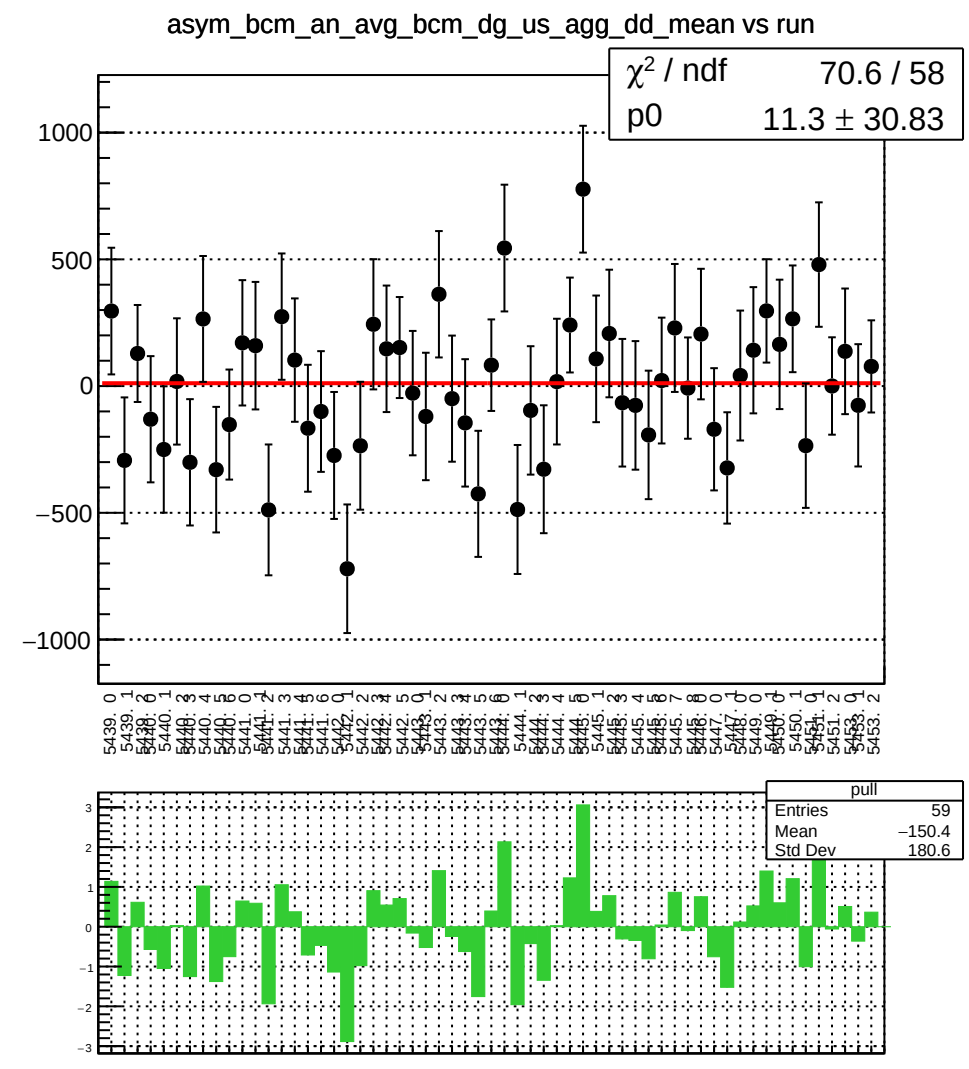

pull1D
Entries 59
Mean 0.02611
Std Dev 0.4526
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

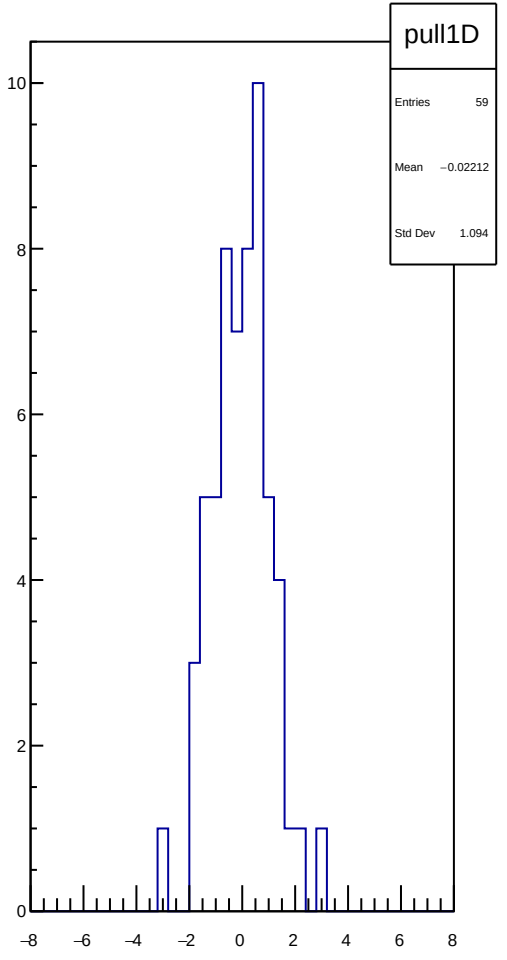

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.998e+04 / 58
p0 215.2 ± 0.2018
1000
900
800
700
600
500
400
300
200
100

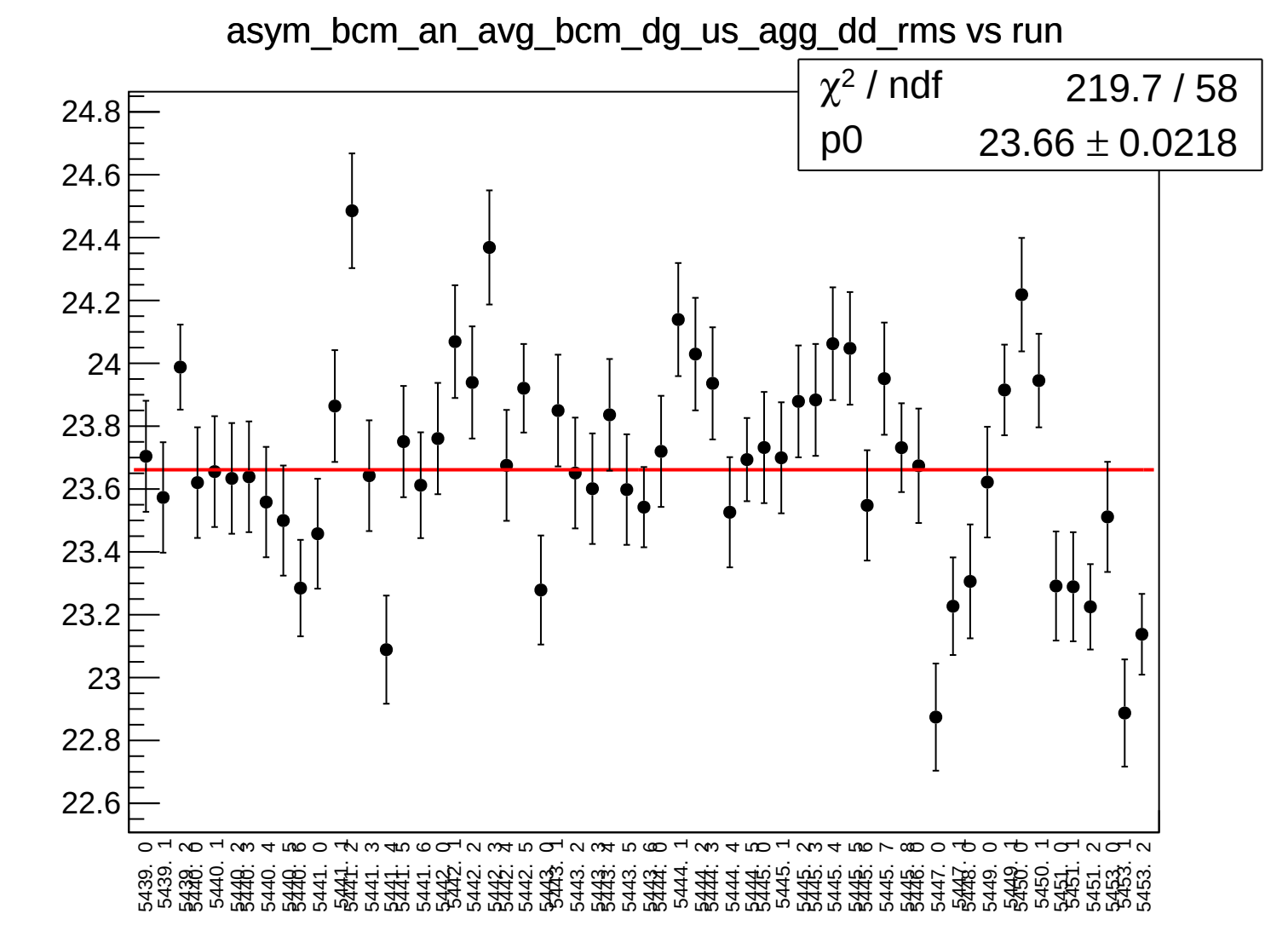

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 58.6 / 58
p0 8.306 ± 21.27
pull
Entries 59
Mean 339.9
Std Dev 320.7

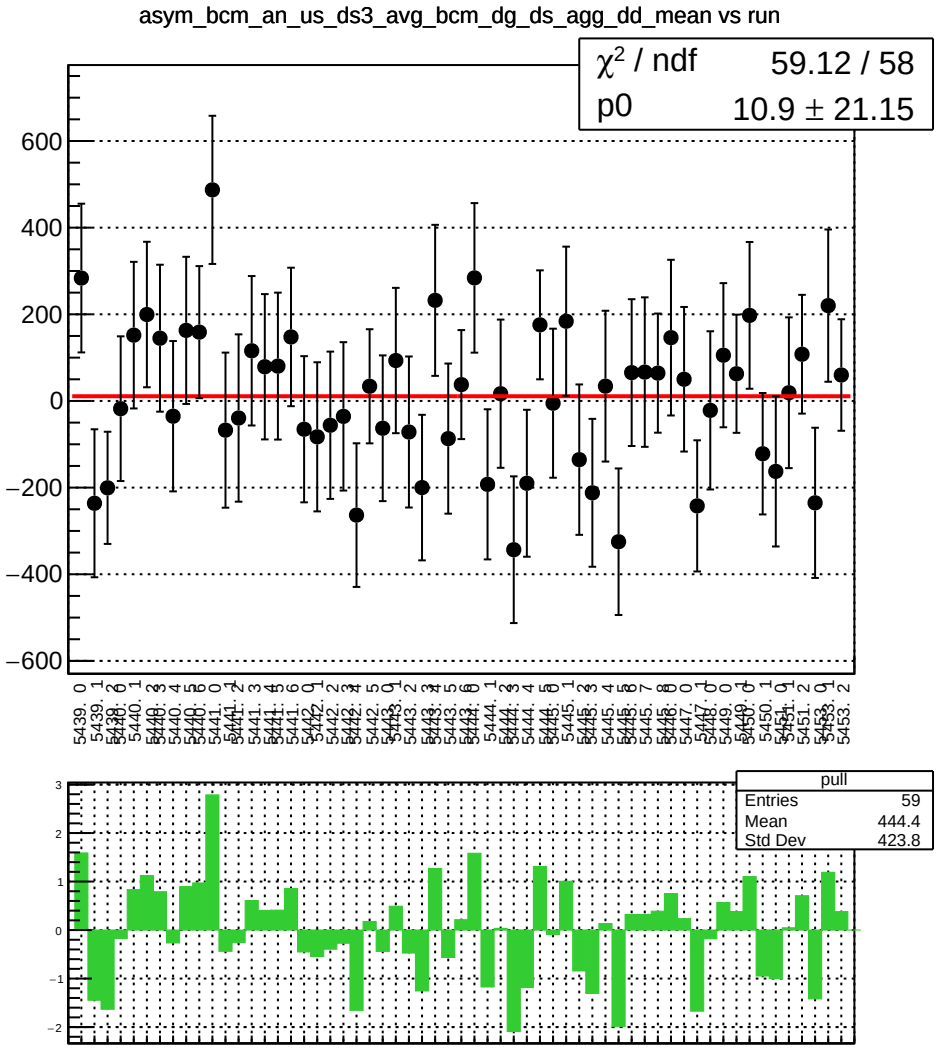

pull1D
Entries 59
Mean −0.0057
Std Dev 0.9966

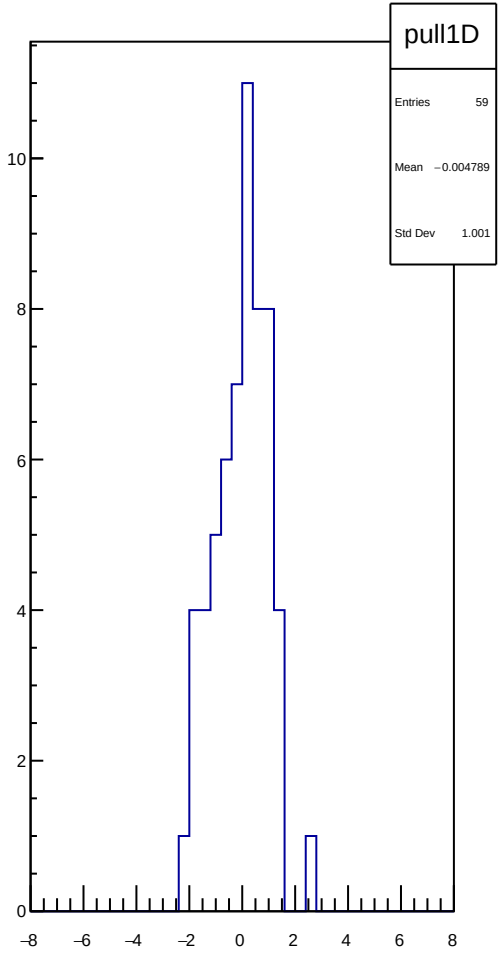

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 719 / 58
p0 16.32 ± 0.01504
19.5
19
18.5
18
17.5
17
16.5
16
15.5

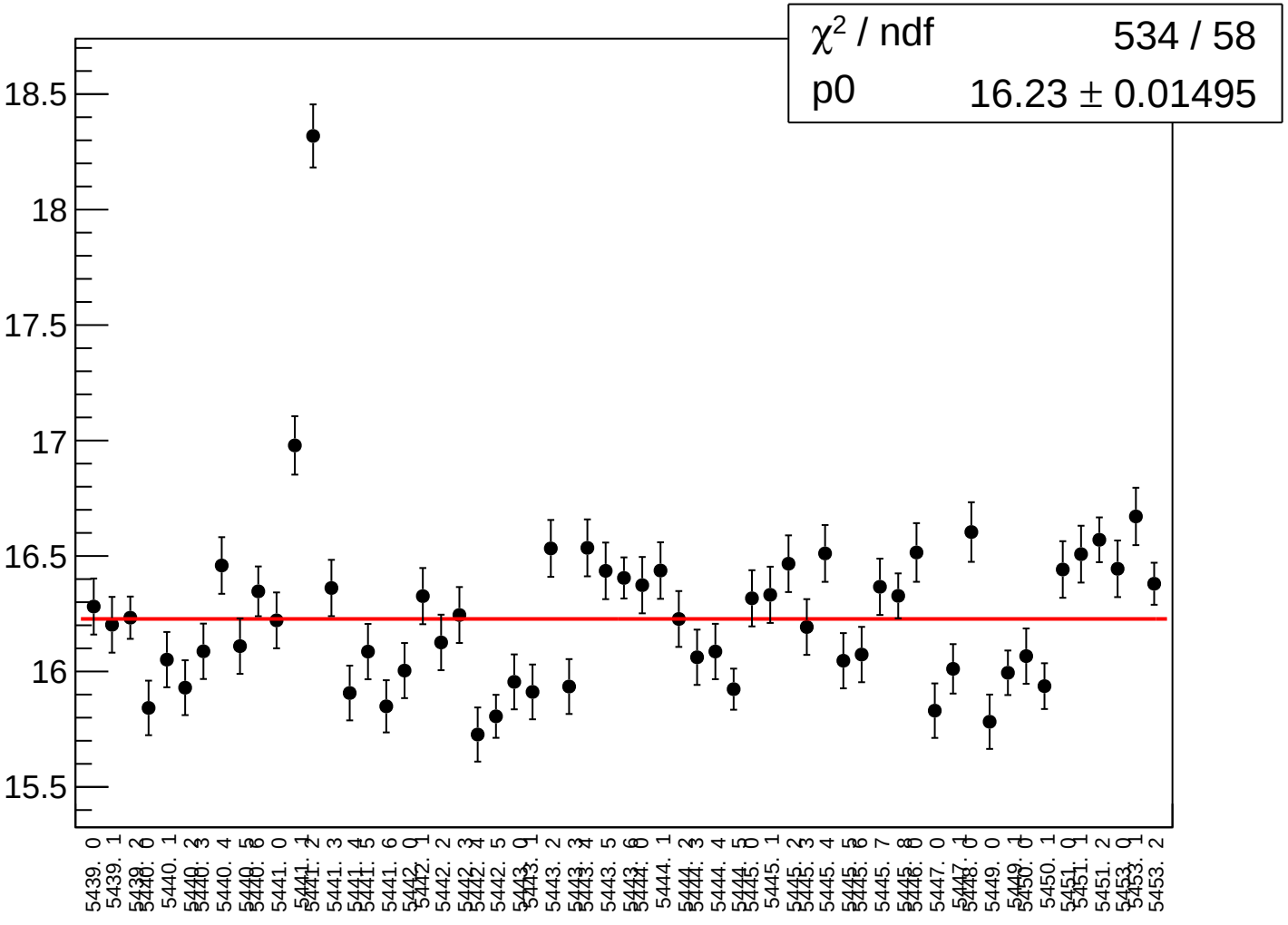

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.6 / 58
p0 11.3 ± 30.83
1000
500
0
−500
−1000
pull
Entries 59
Mean −150.4
Std Dev 180.6
3
2
1
0
−1
−2
−3

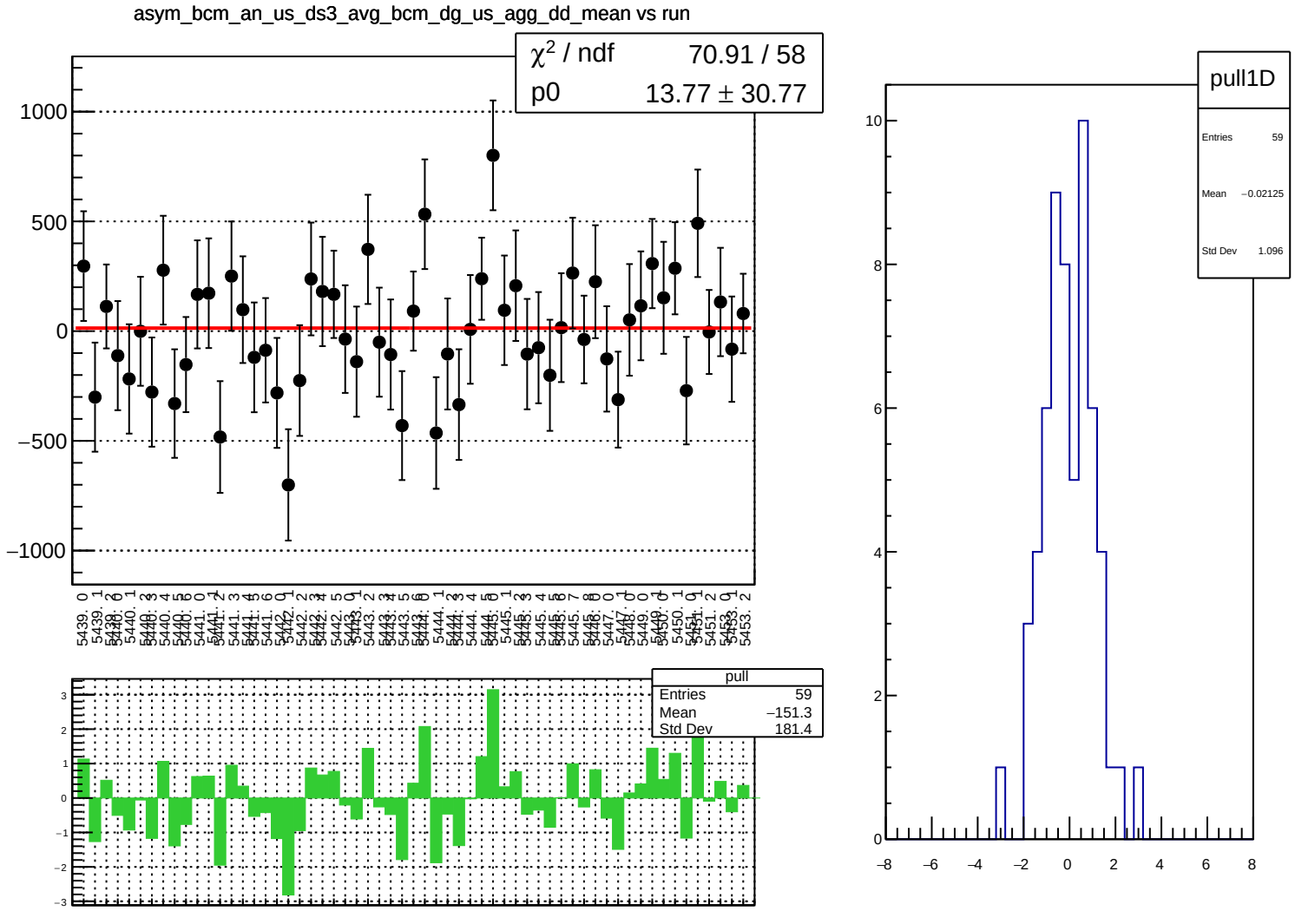

pull1D
Entries 59
Mean −0.02212
Std Dev 1.094
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

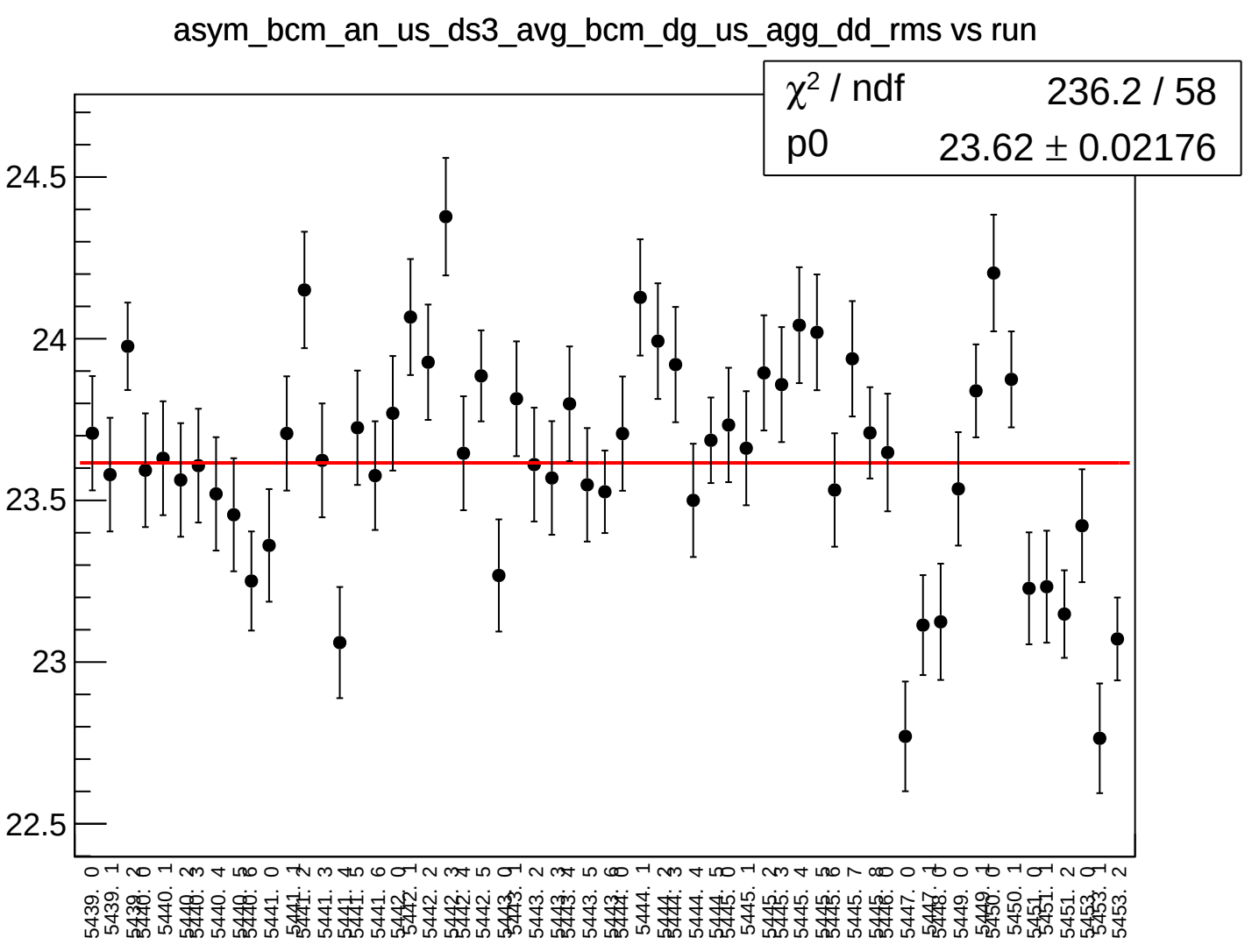

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 219.7 / 58
p0 23.66 ± 0.0218
24.8
24.6
24.4
24.2
24
23.8
23.6
23.4
23.2
23
22.8
22.6

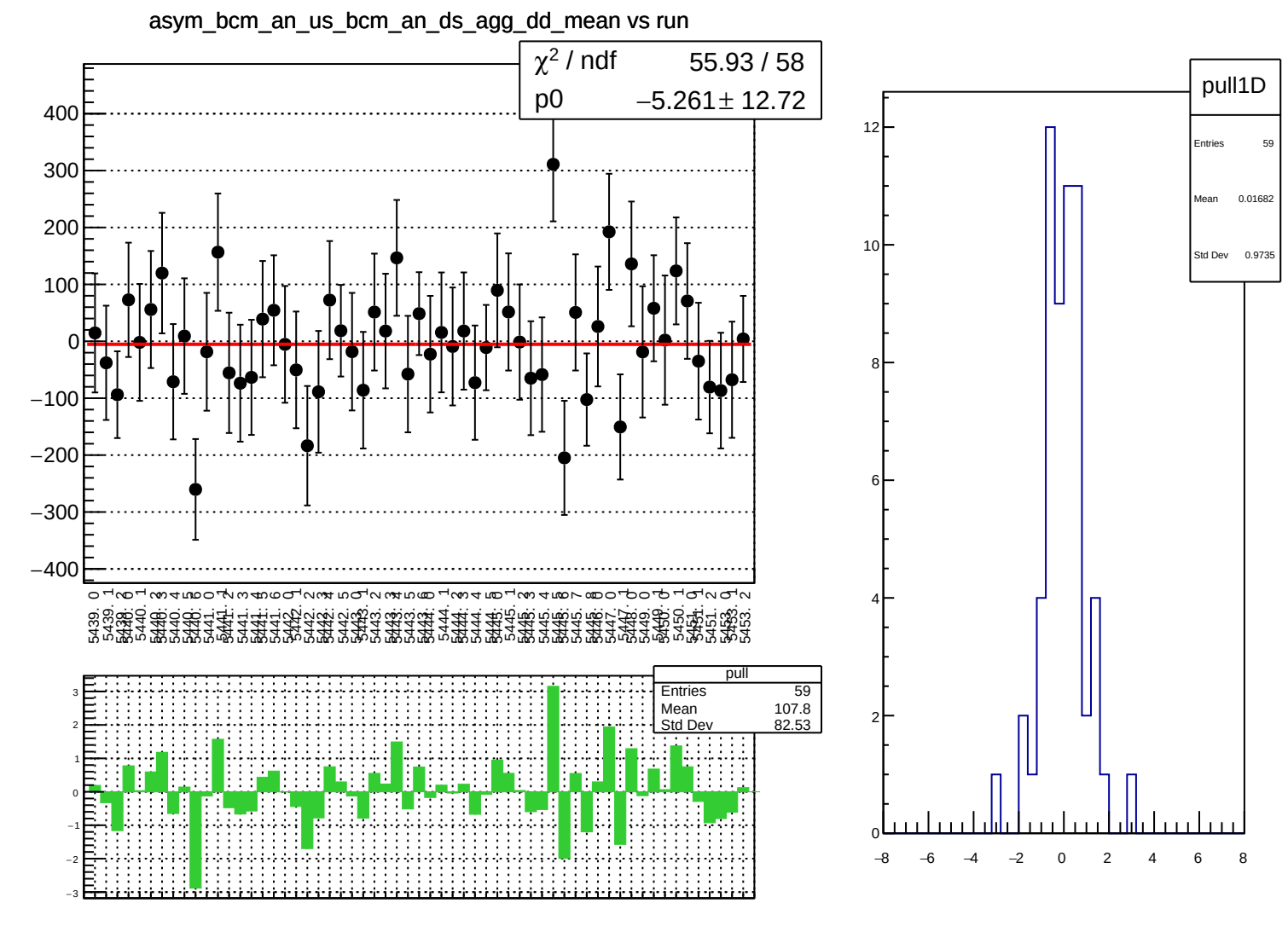

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 59.12 / 58
p0 10.9 ± 21.15
pull
Entries 59
Mean 444.4
Std Dev 423.8

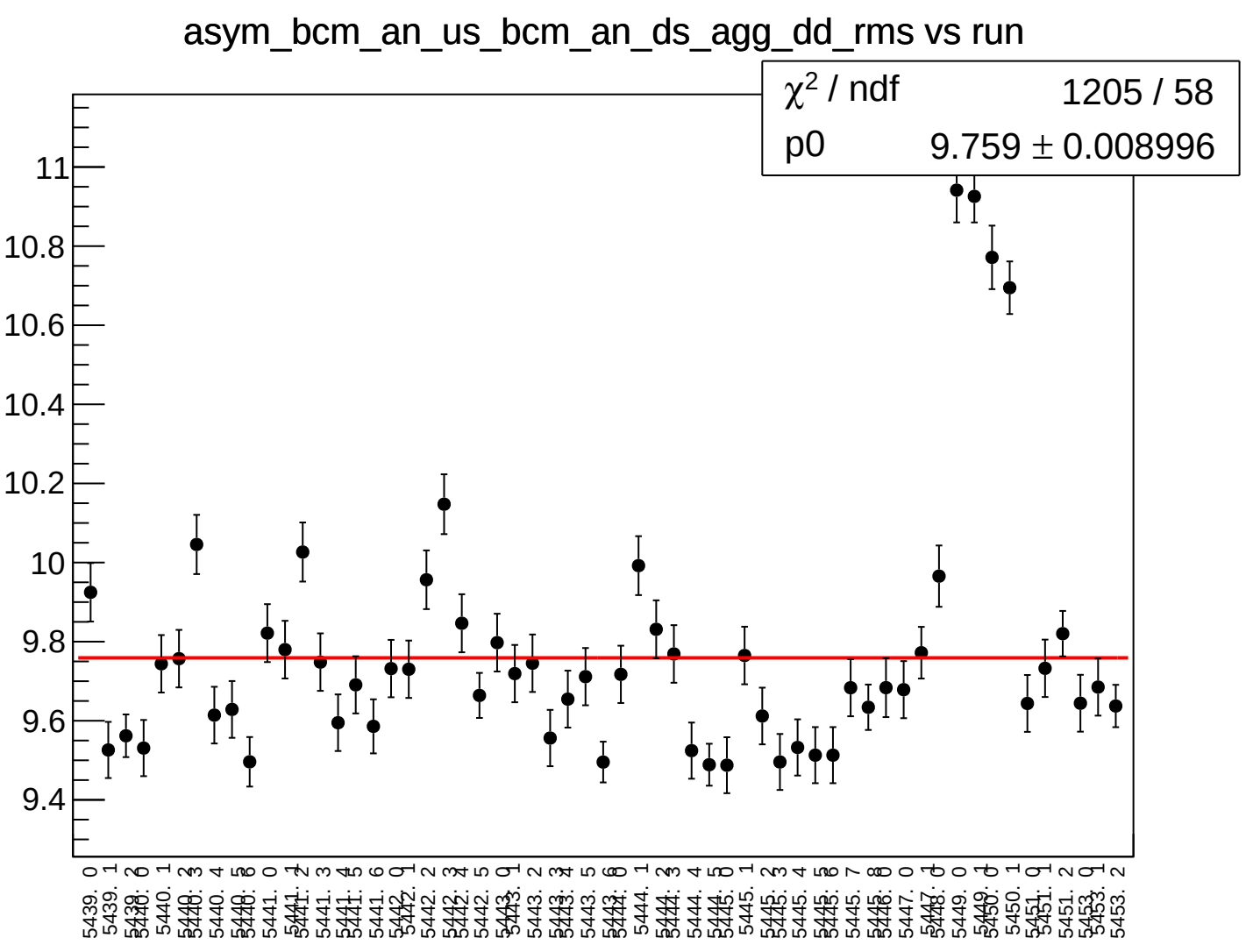

pull1D
Entries 59
Mean −0.004789
Std Dev 1.001

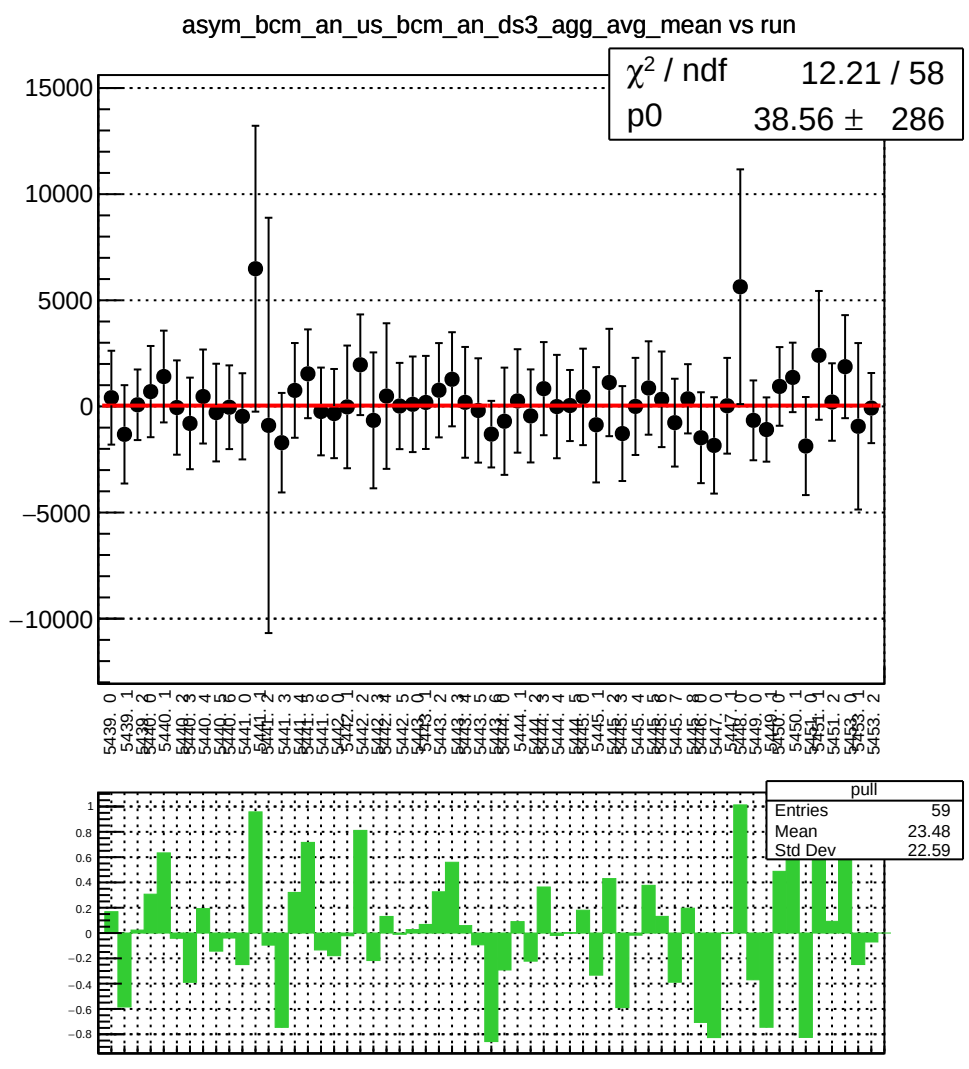

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 534 / 58
p0 16.23 ± 0.01495
18.5
18
17.5
17
16.5
16
15.5

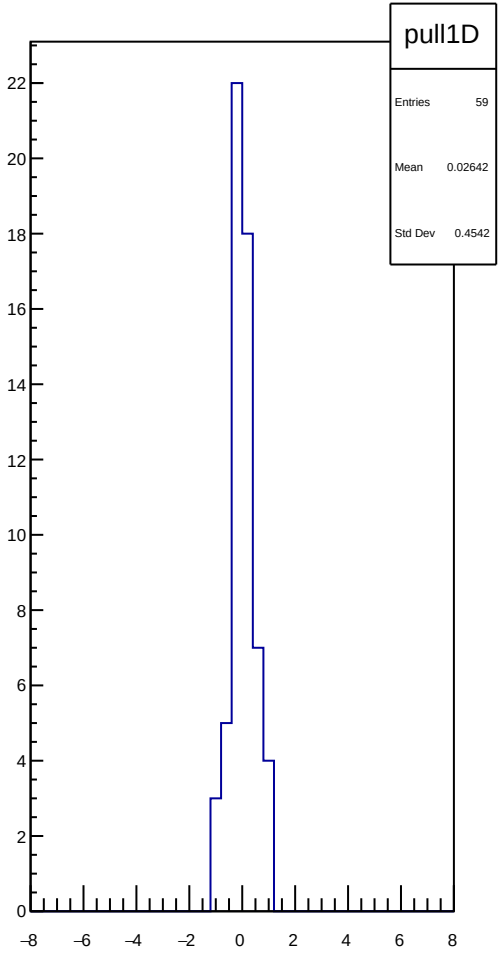

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 70.91 / 58
p0 13.77 ± 30.77
1000
500
0
−500
−1000
pull
Entries 59
Mean −151.3
Std Dev 181.4
pull1D
Entries 59
Mean −0.02125
Std Dev 1.096

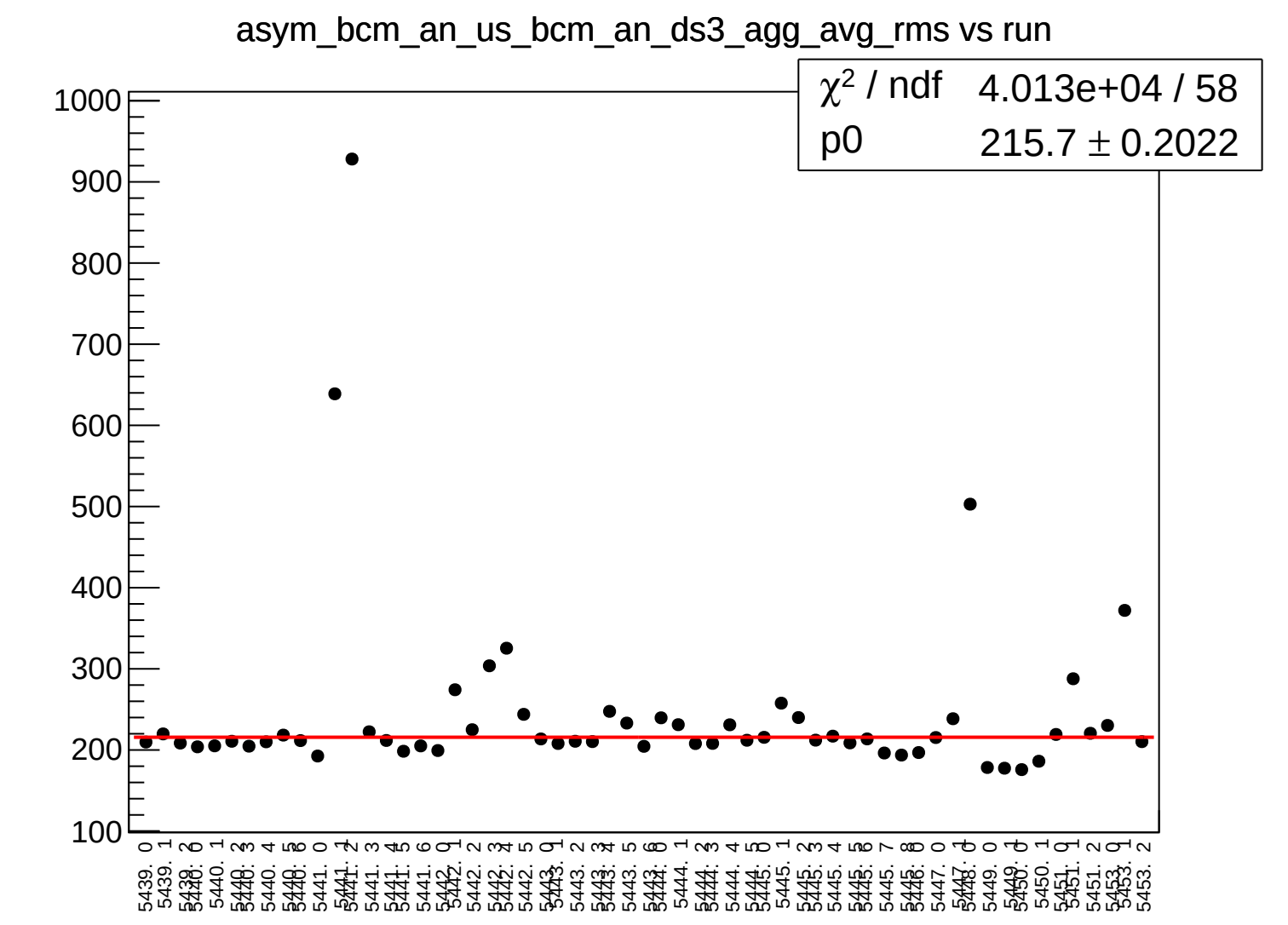

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 236.2 / 58
p0 23.62 ± 0.02176
24.5
24
23.5
23
22.5

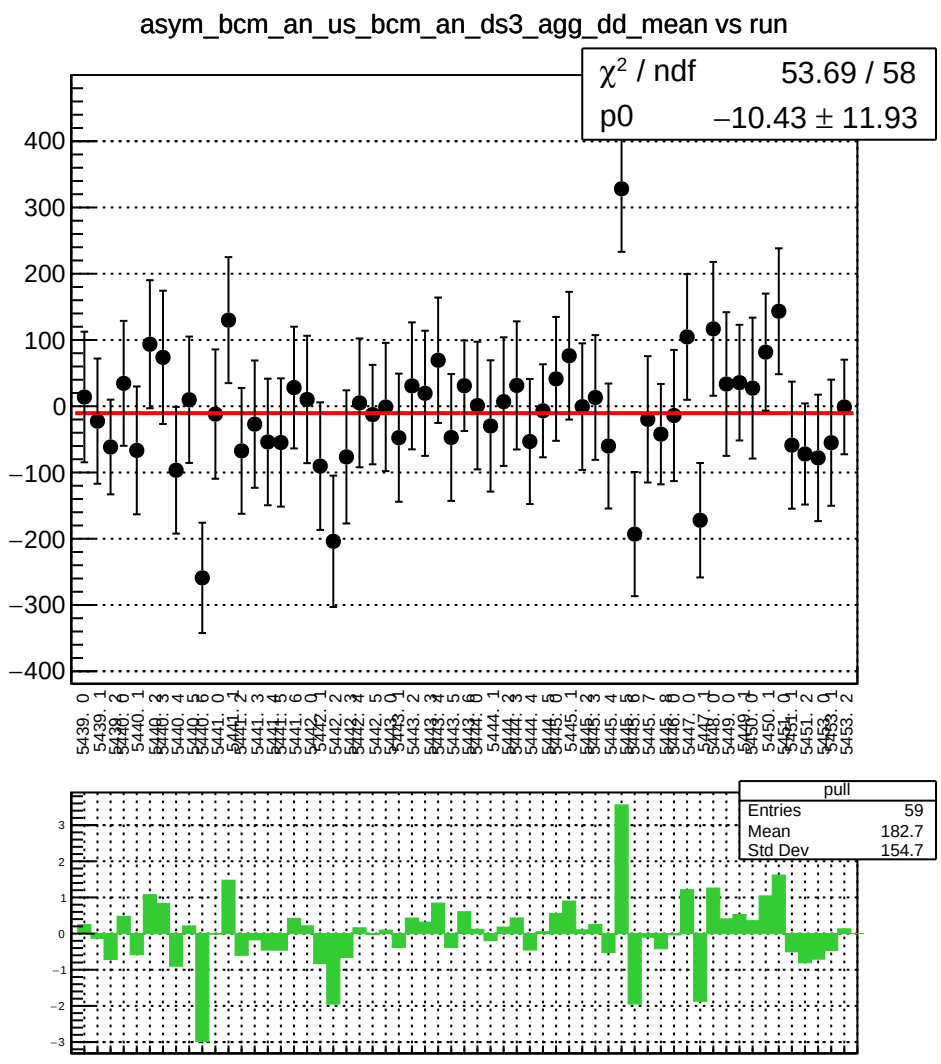

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 55.93 / 58
p0 −5.261 ± 12.72
pull
Entries 59
Mean 107.8
Std Dev 82.53
pull1D
Entries 59
Mean 0.01682
Std Dev 0.9735

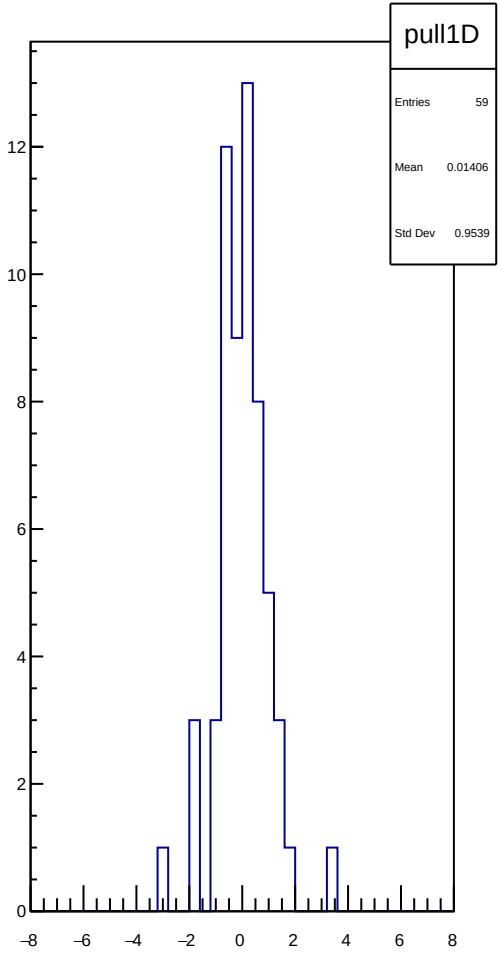

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1205 / 58
p0 9.759 ± 0.008996
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4

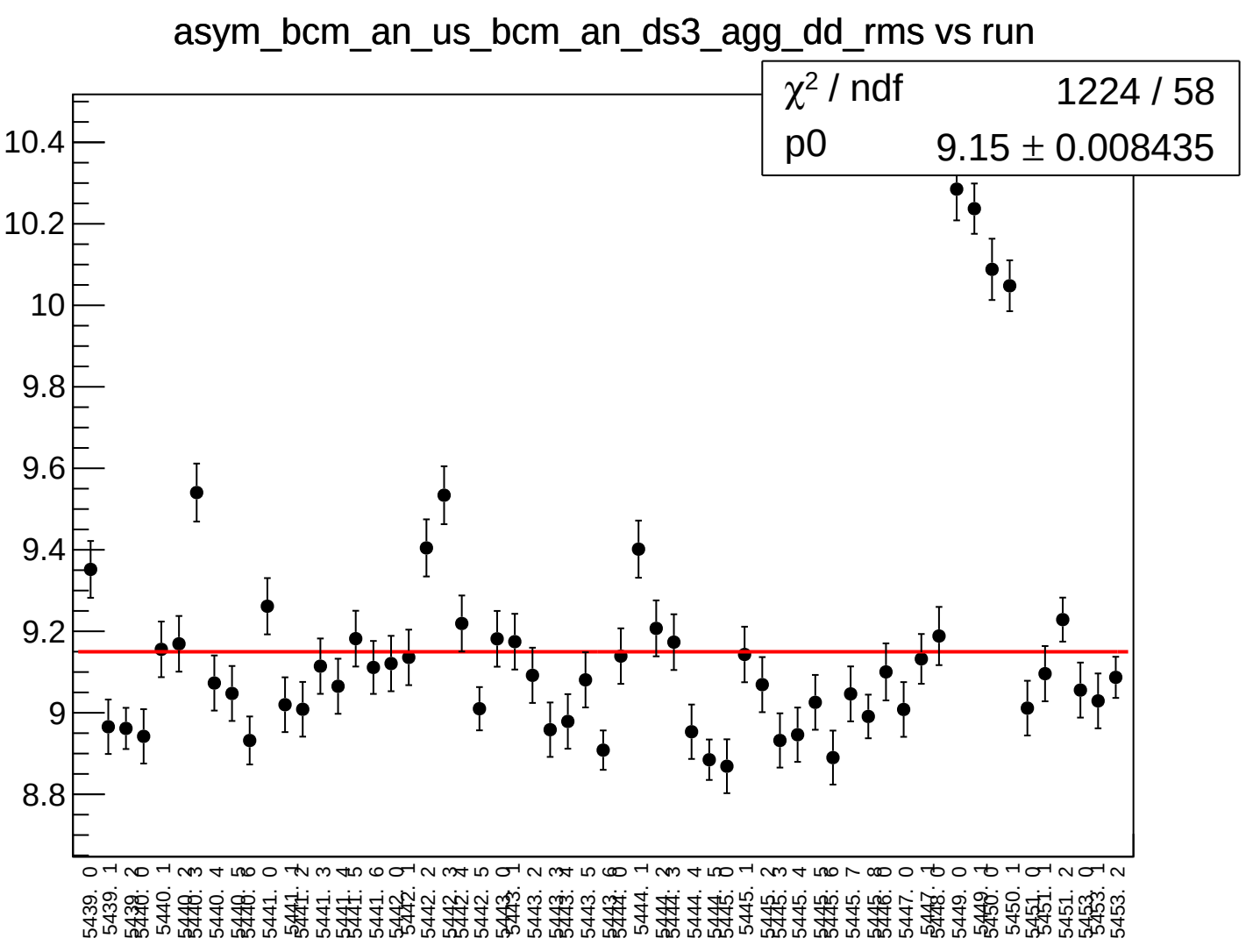

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 12.21 / 58
p0 38.56 ± 286
pull
Entries 59
Mean 23.48
Std Dev 22.59

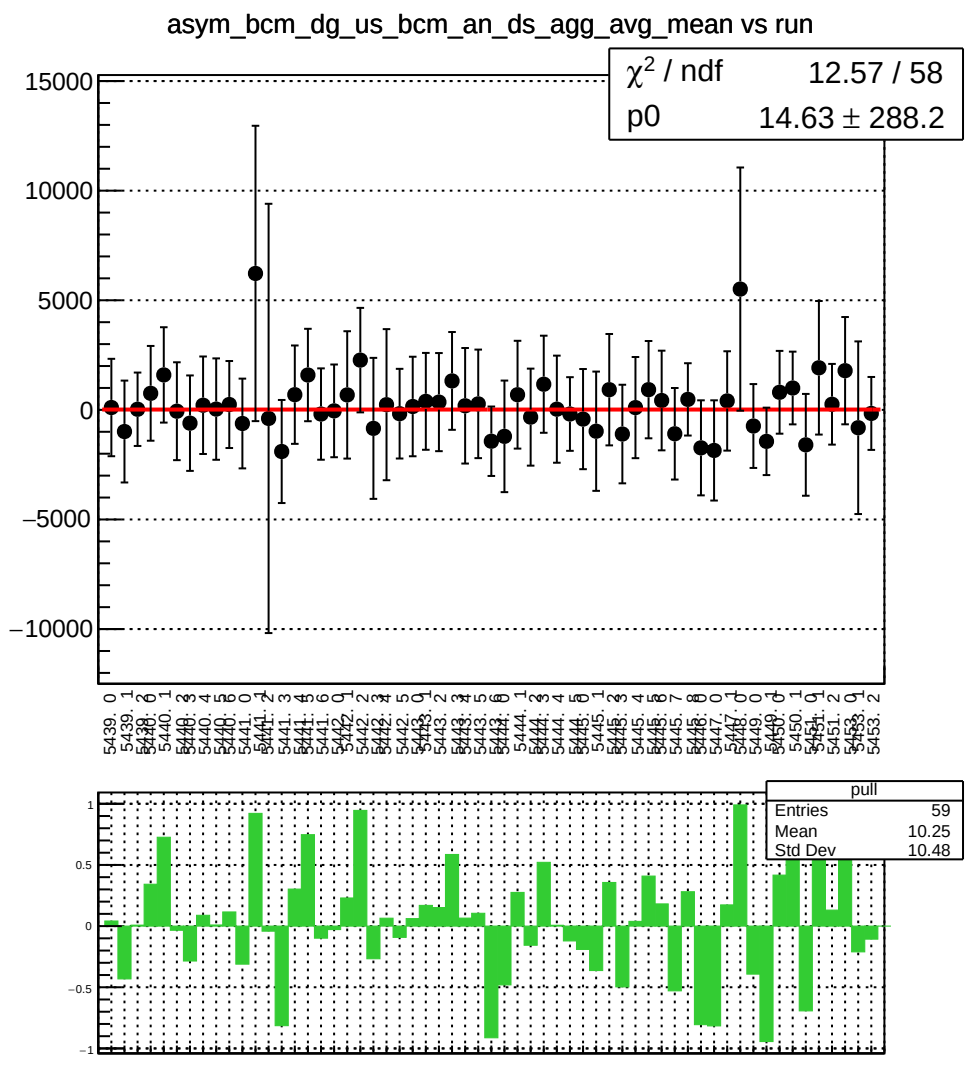

pull1D
Entries 59
Mean 0.02642
Std Dev 0.4542

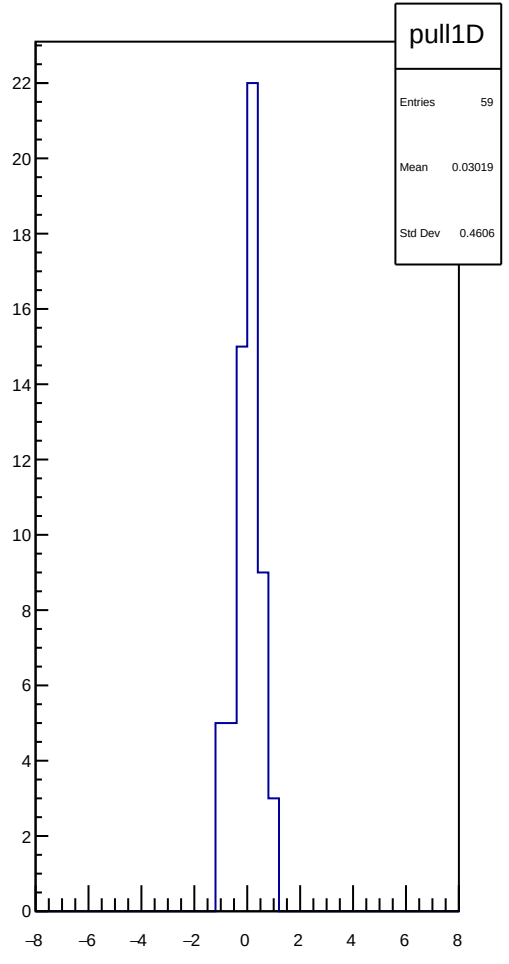

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4.013e+04 / 58
p0 215.7 ± 0.2022
1000
900
800
700
600
500
400
300
200
100
5439. 0
5439. 1
5440. 1
5441. 0
5441. 1
5441. 3
5441. 4
5441. 5
5441. 6
5442. 0
5442. 1
5442. 2
5442. 3
5442. 4
5442. 5
5443. 1
5443. 2
5443. 3
5443. 4
5443. 5
5444. 1
5444. 3
5444. 4
5445. 0
5445. 1
5445. 2
5445. 3
5445. 4
5445. 7
5447. 0
5447. 1
5448. 0
5449. 0
5450. 1
5451. 0
5451. 1
5451. 2
5453. 0
5453. 1
5453. 2

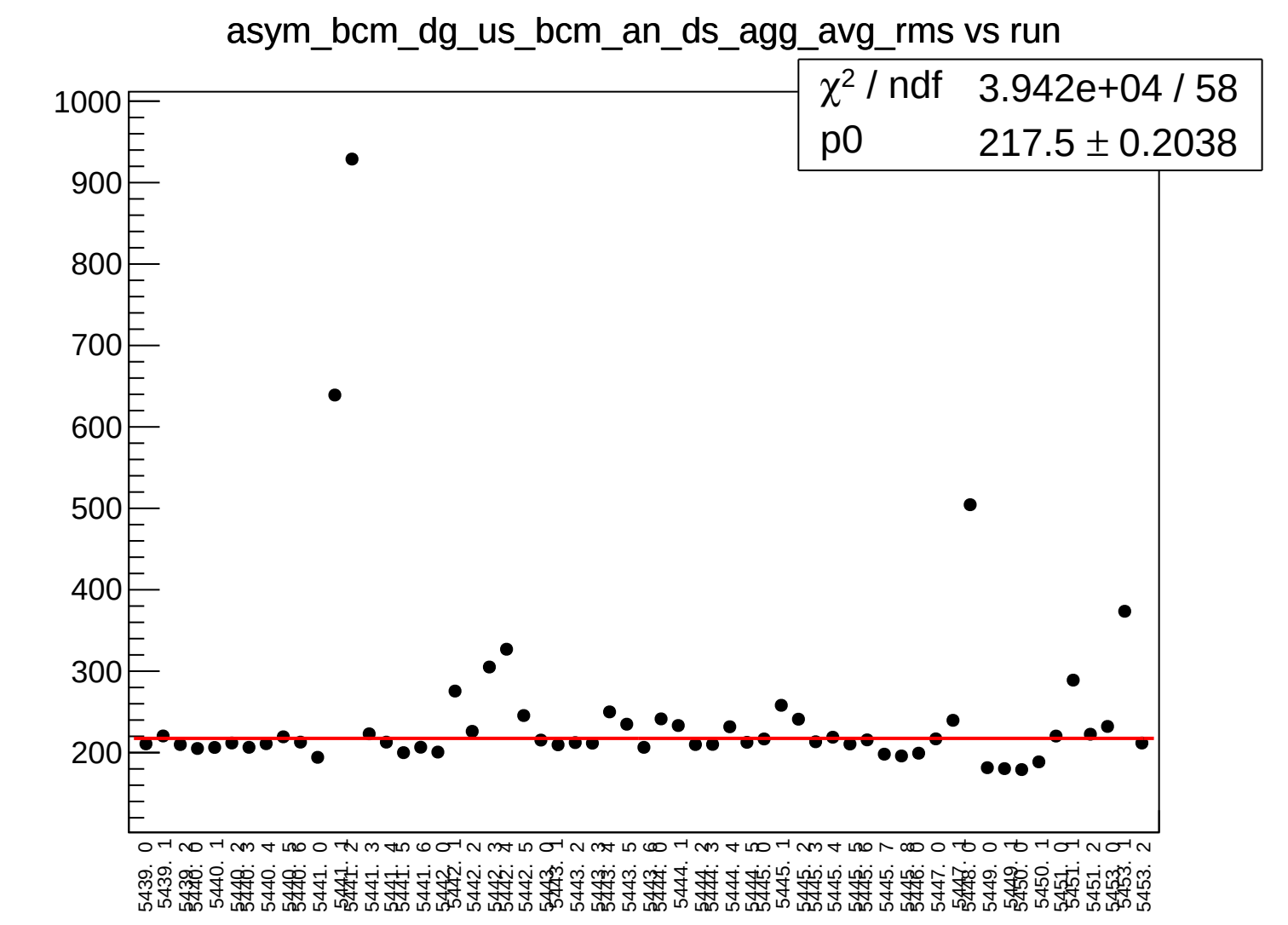

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 53.69 / 58
p0 −10.43 ± 11.93
pull
Entries 59
Mean 182.7
Std Dev 154.7

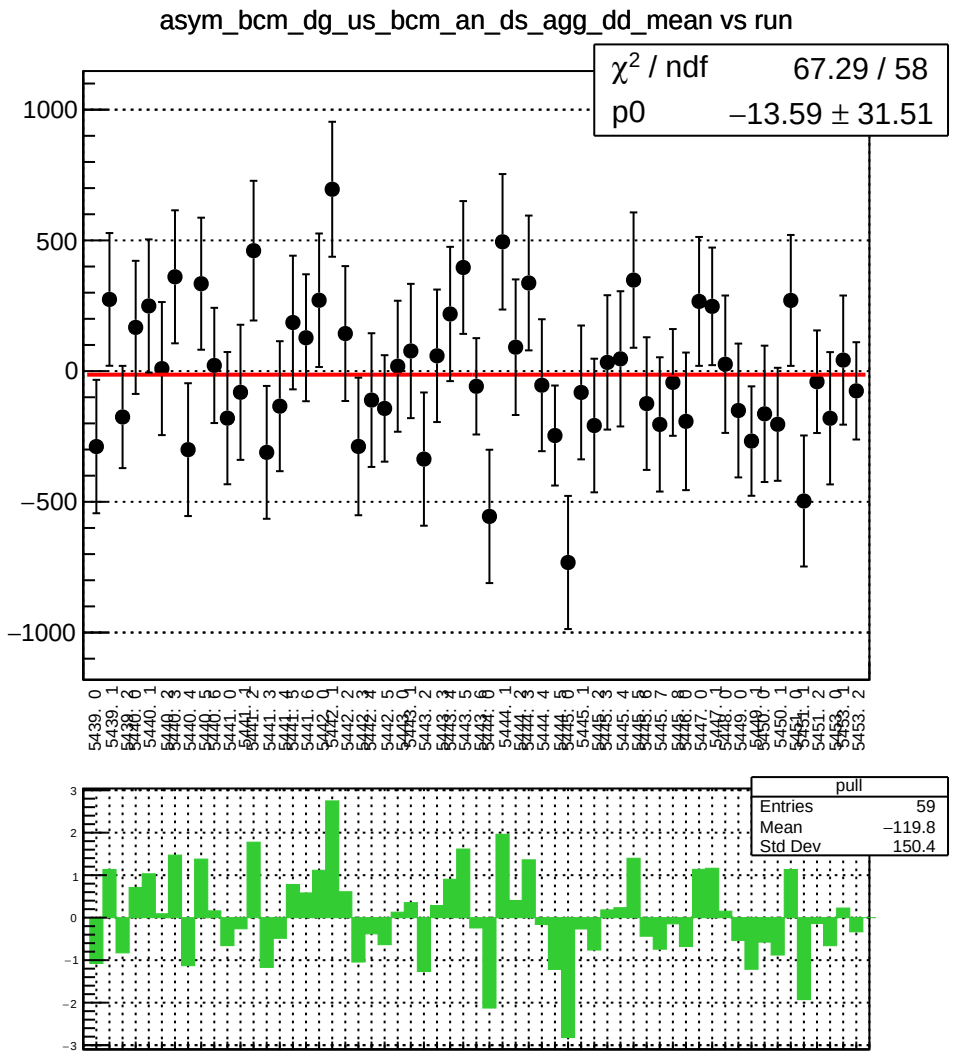

pull1D
Entries 59
Mean 0.01406
Std Dev 0.9539

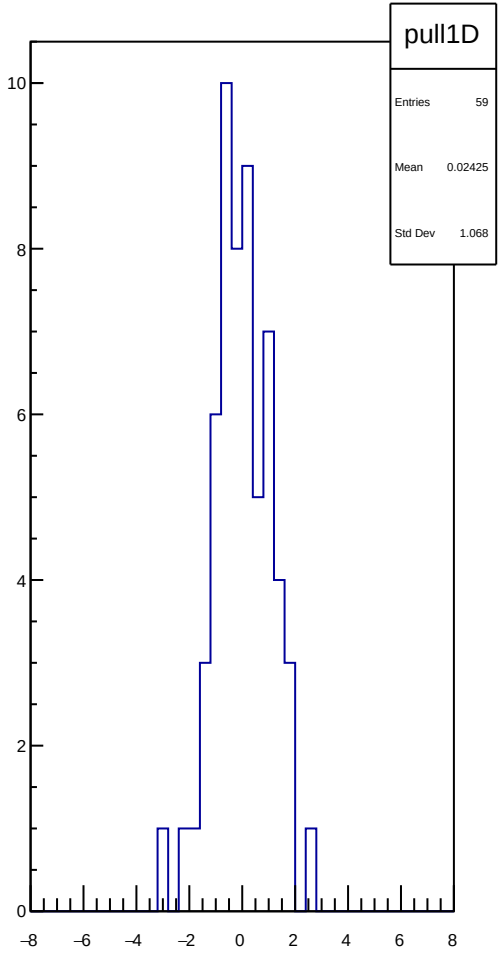

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1224 / 58
p0 9.15 ± 0.008435
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

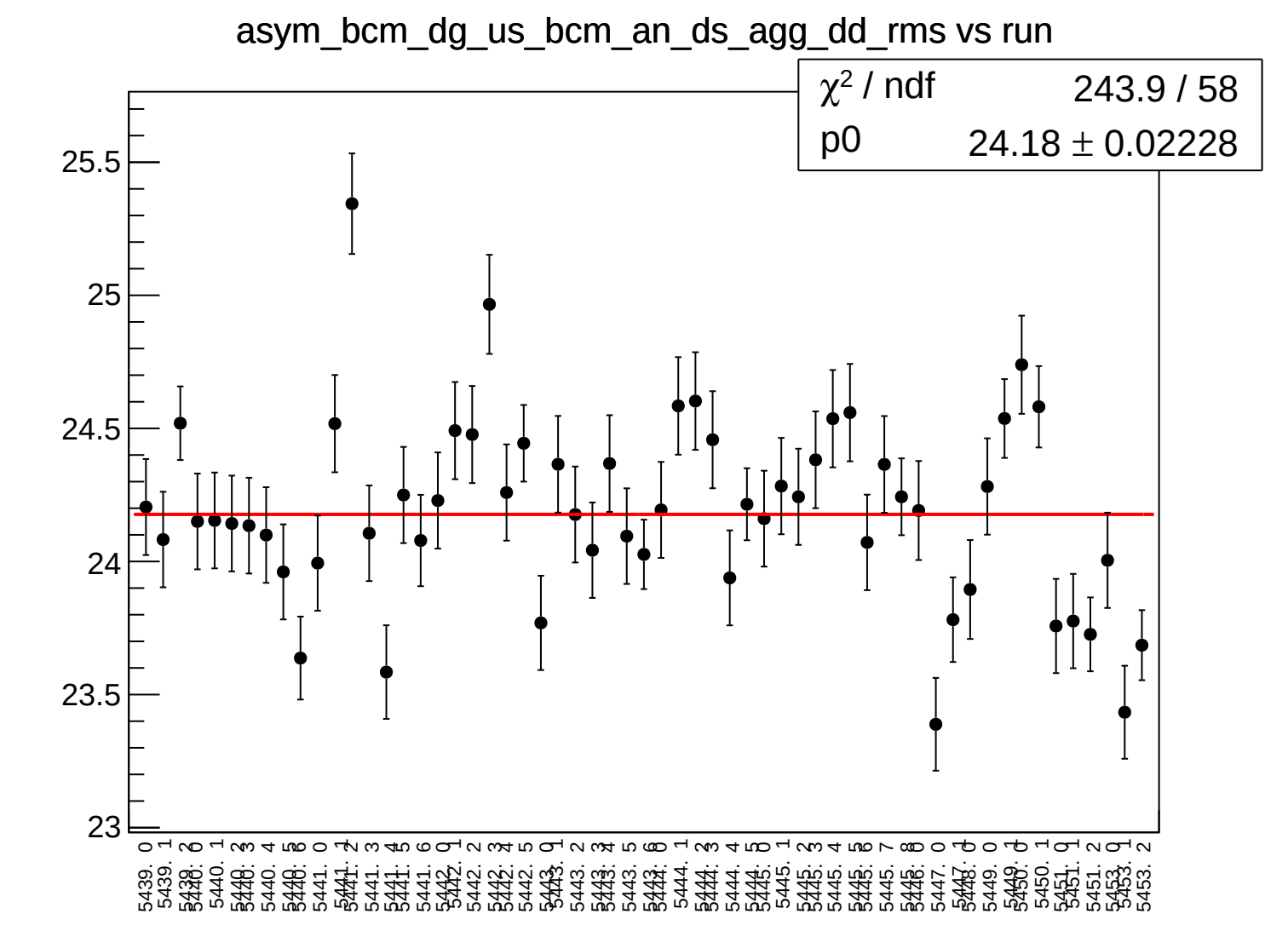

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 12.57 / 58
p0 14.63 ± 288.2
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 10.25
Std Dev 10.48
1
0.5
0
−0.5
−1

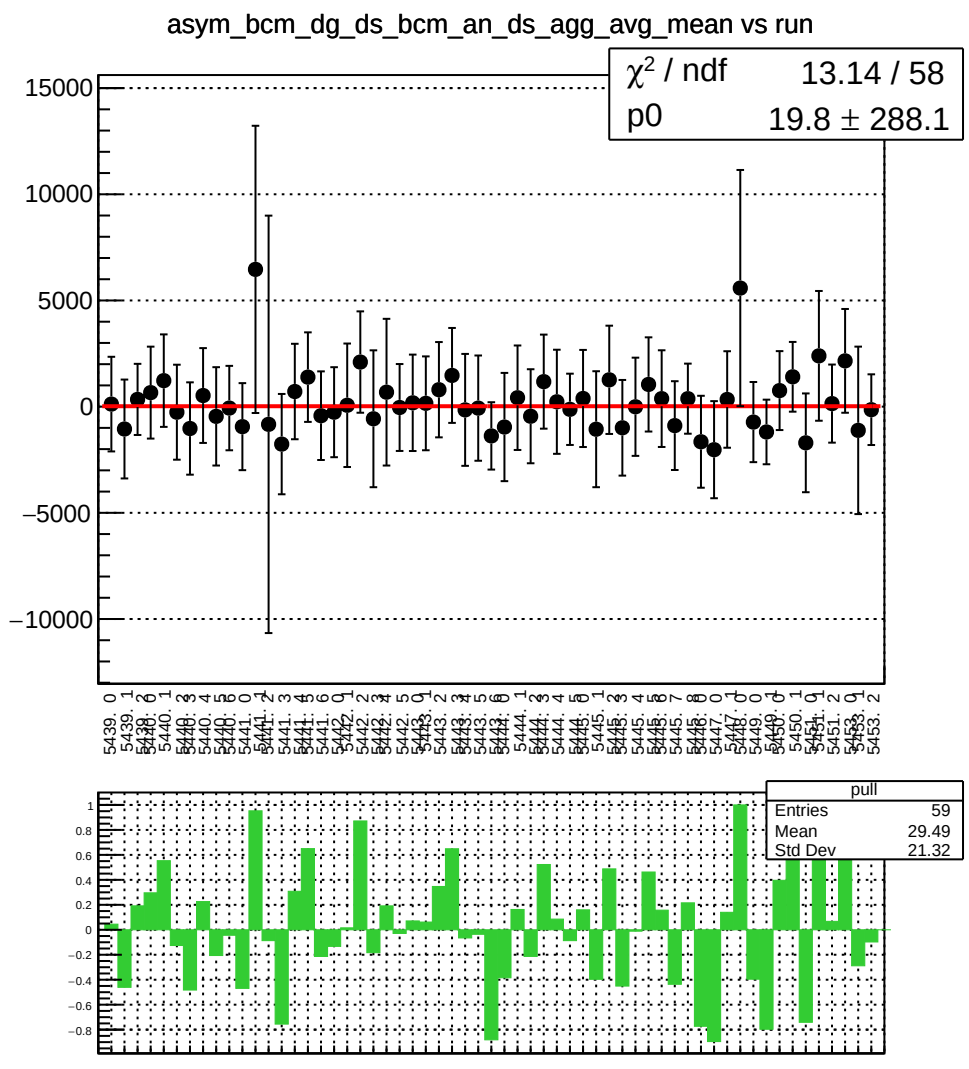

pull1D
Entries 59
Mean 0.03019
Std Dev 0.4606
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

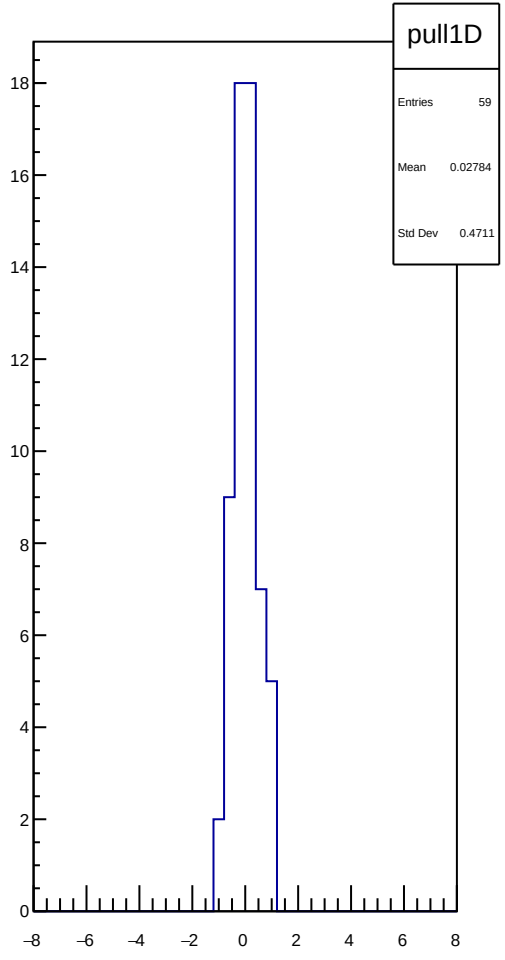

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3.942e+04 / 58
p0 217.5 ± 0.2038
1000
900
800
700
600
500
400
300
200

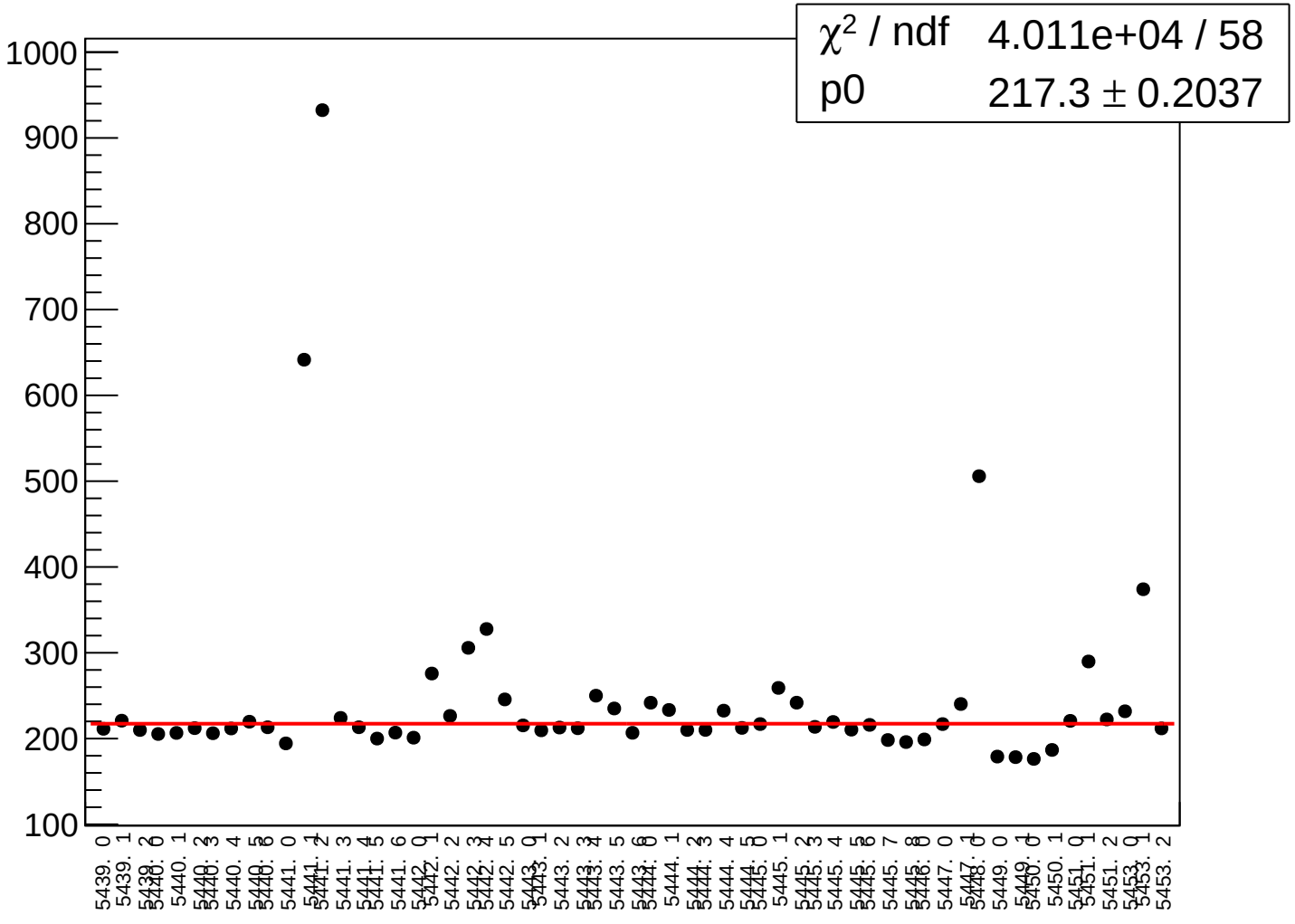

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 67.29 / 58
p0 −13.59 ± 31.51
pull
Entries 59
Mean −119.8
Std Dev 150.4

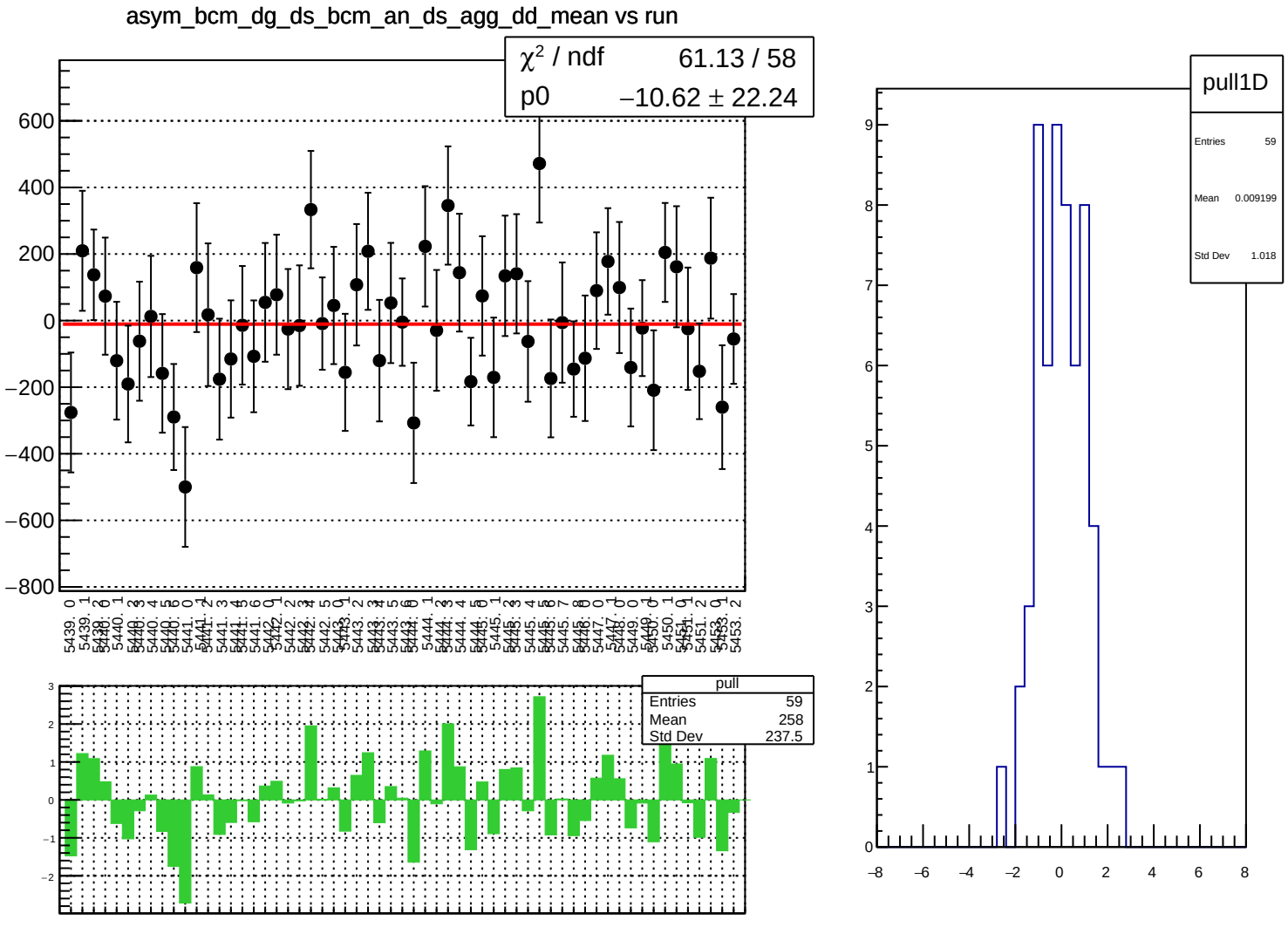

pull1D
Entries 59
Mean 0.02425
Std Dev 1.068

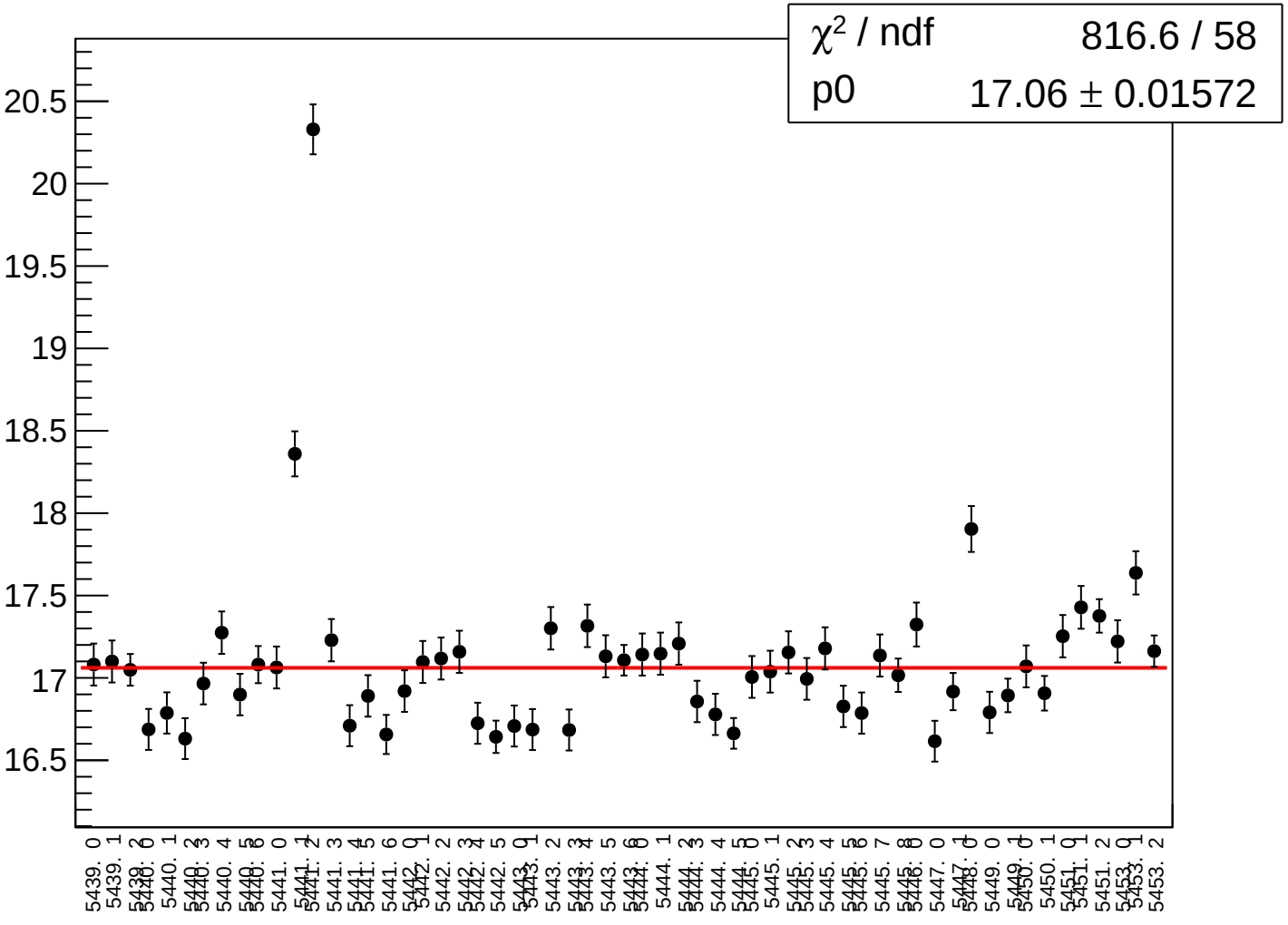

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 243.9 / 58
p0 24.18 ± 0.02228
25.5
25
24.5
24
23.5
23

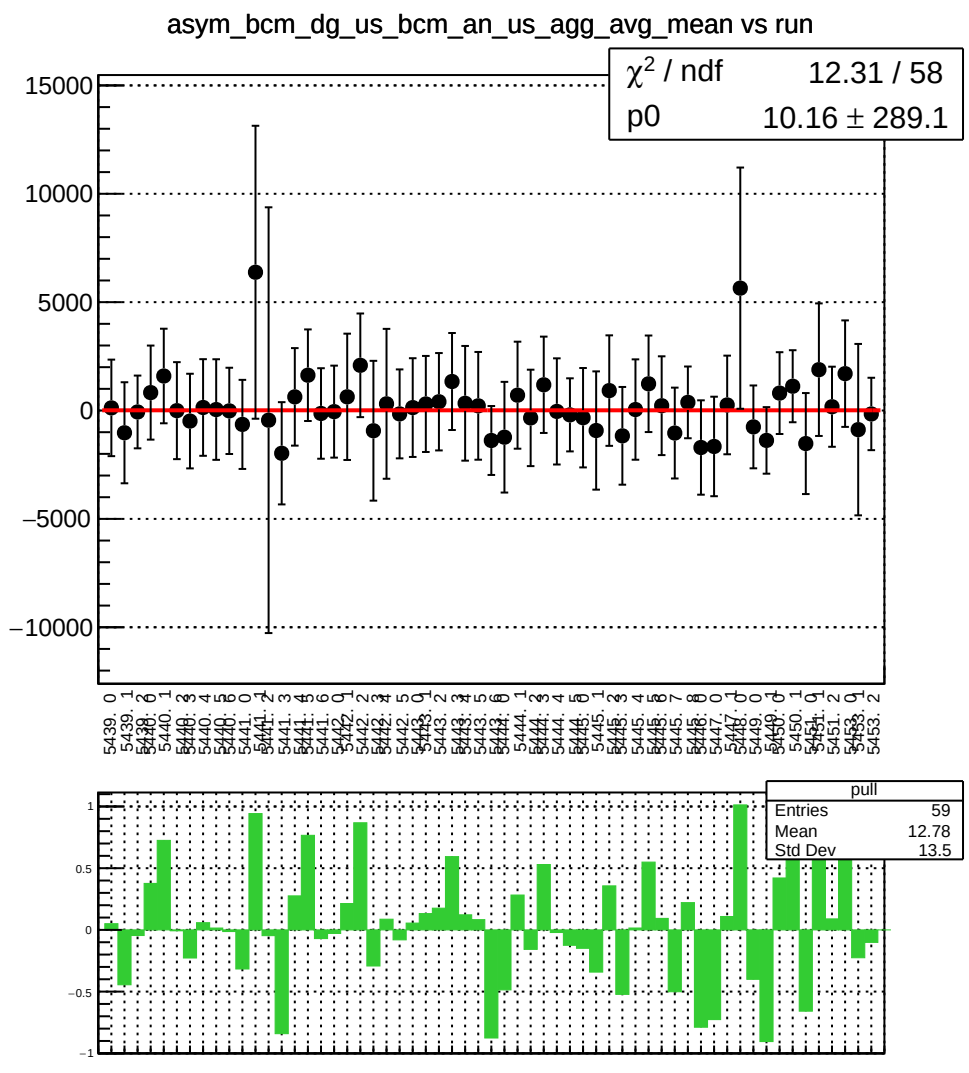

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 13.14 / 58
p0 19.8 ± 288.1
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 29.49
Std Dev 21.32
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

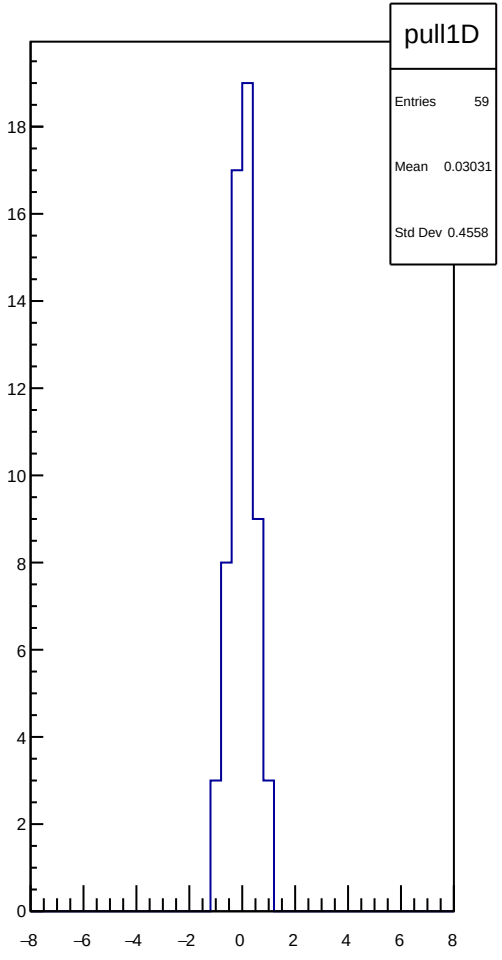

pull1D
Entries 59
Mean 0.02784
Std Dev 0.4711
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

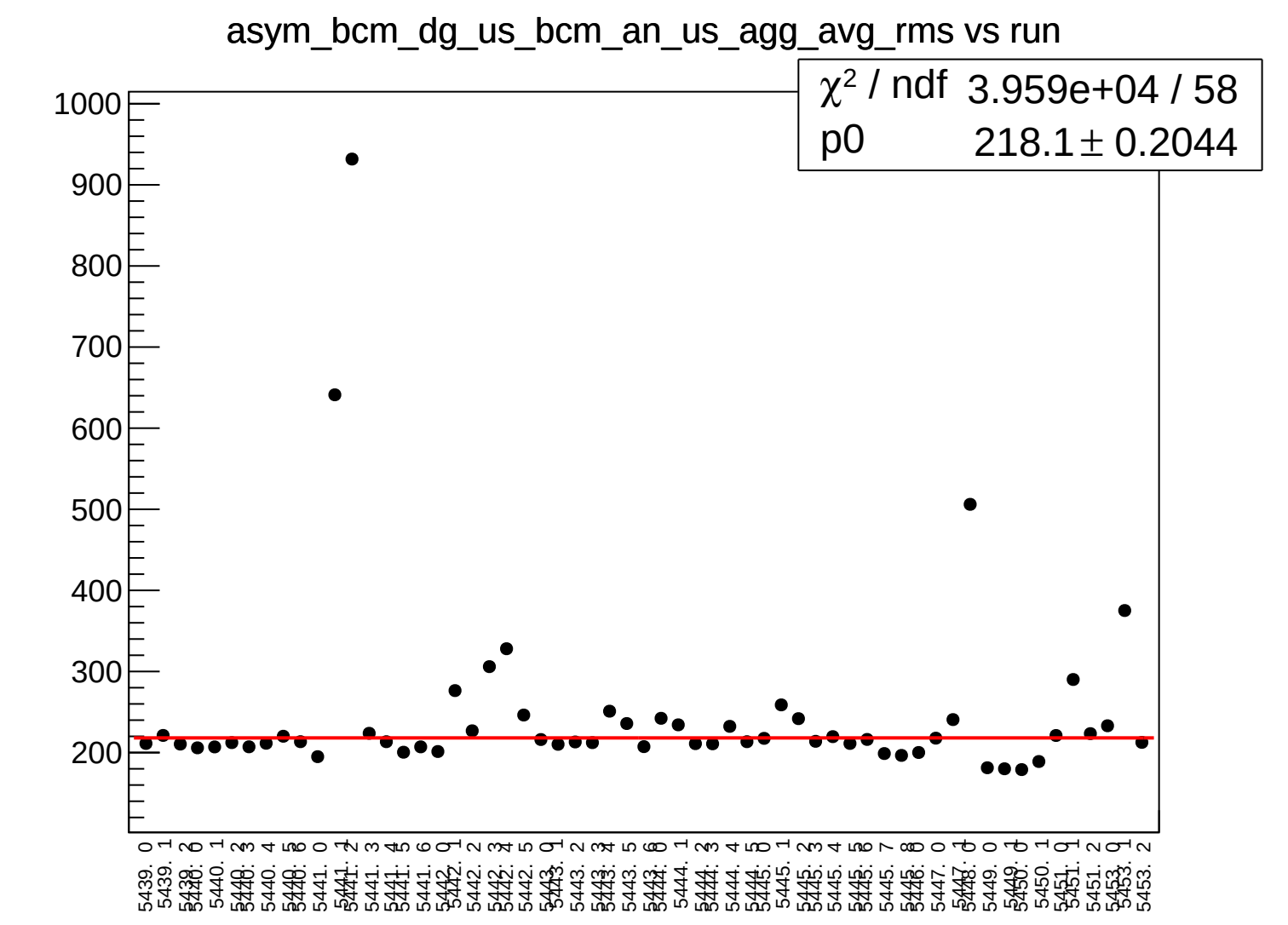

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4.011e+04 / 58
p0 217.3 ± 0.2037
1000
900
800
700
600
500
400
300
200
100

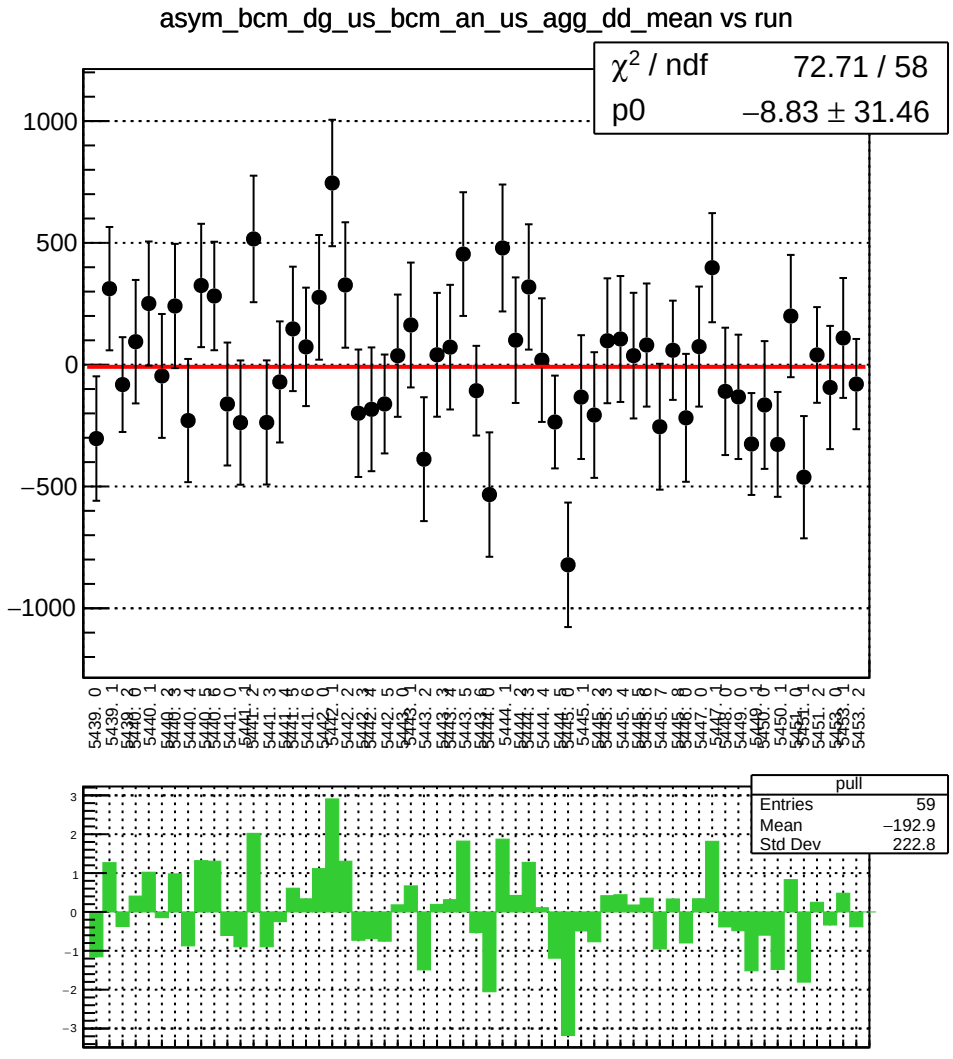

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 61.13 / 58
p0 −10.62 ± 22.24
pull
Entries 59
Mean 258
Std Dev 237.5
pull1D
Entries 59
Mean 0.009199
Std Dev 1.018

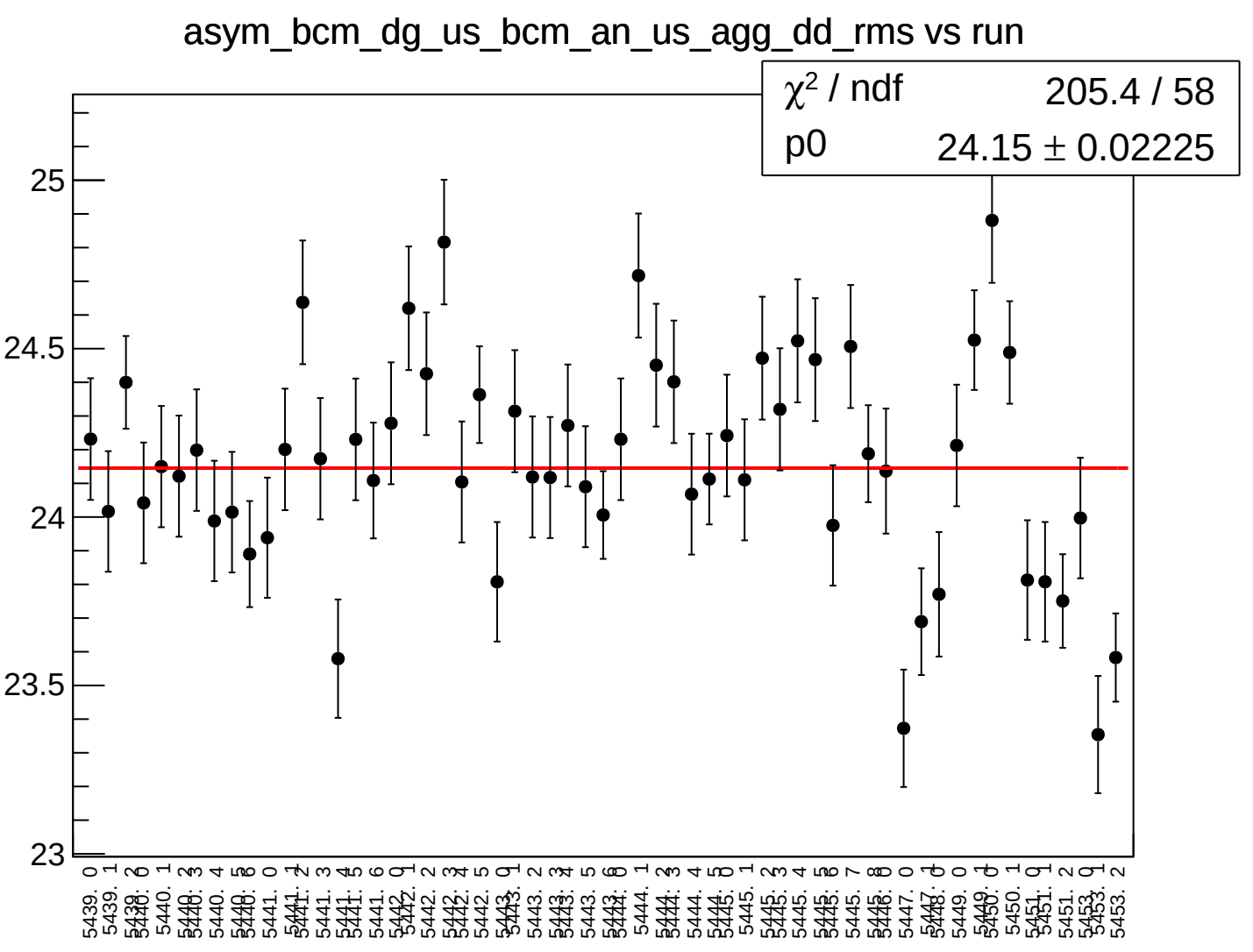

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 816.6 / 58
p0 17.06 ± 0.01572
20.5
20
19.5
19
18.5
18
17.5
17
16.5

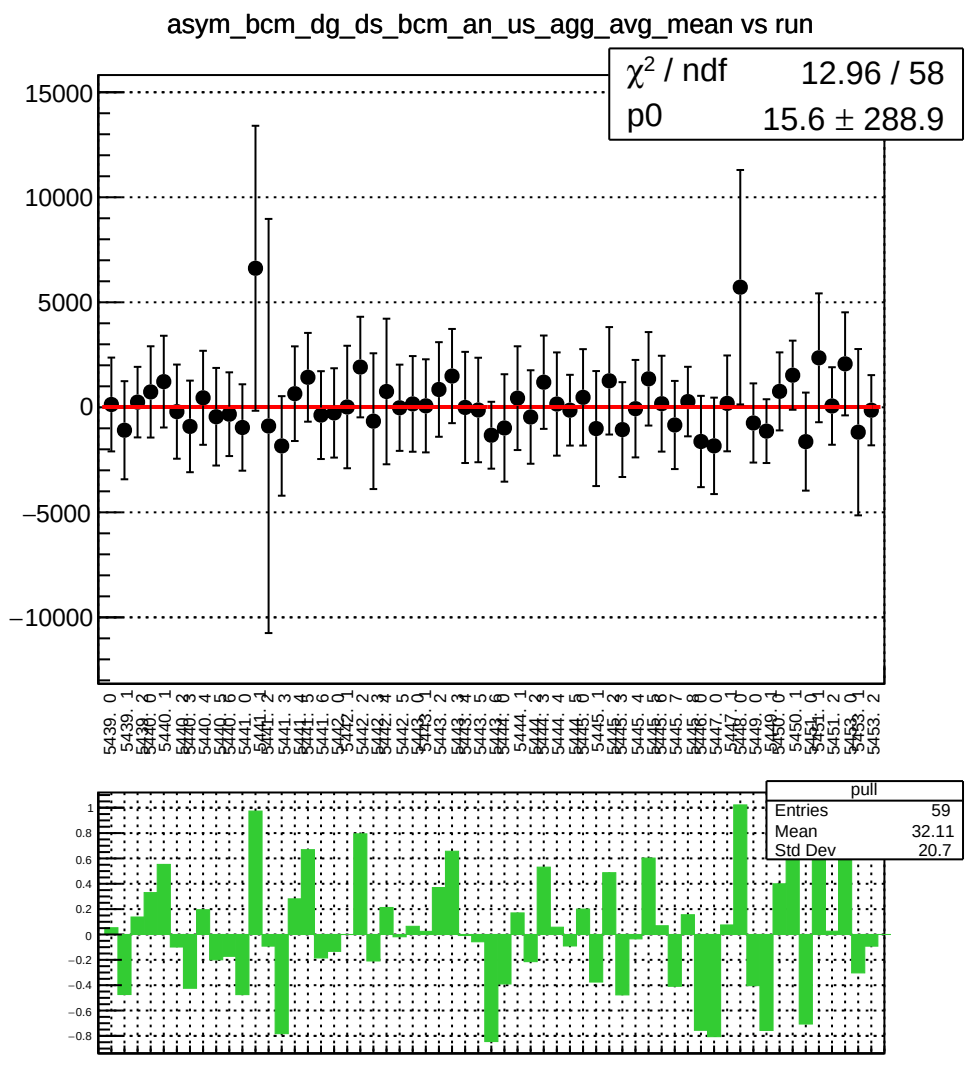

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.31 / 58
p0 10.16 ± 289.1
pull
Entries 59
Mean 12.78
Std Dev 13.5

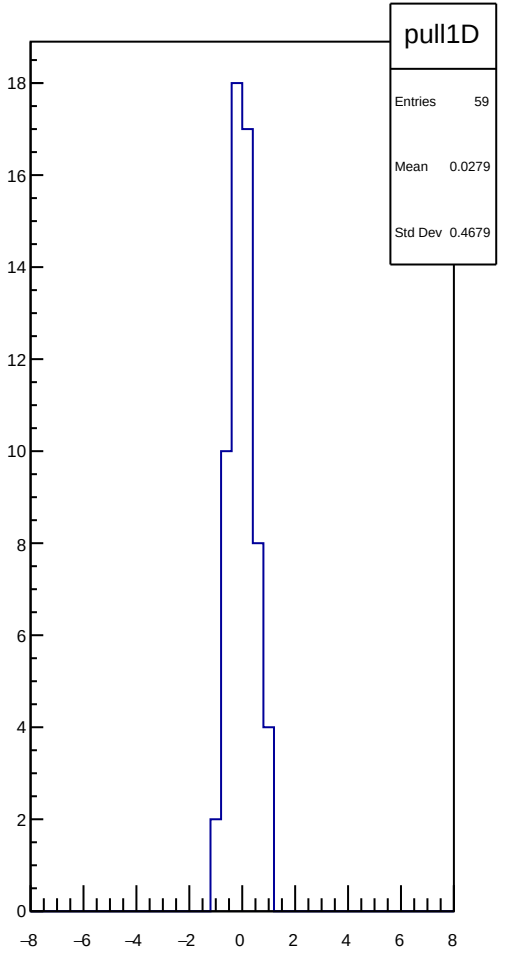

pull1D
Entries 59
Mean 0.03031
Std Dev 0.4558

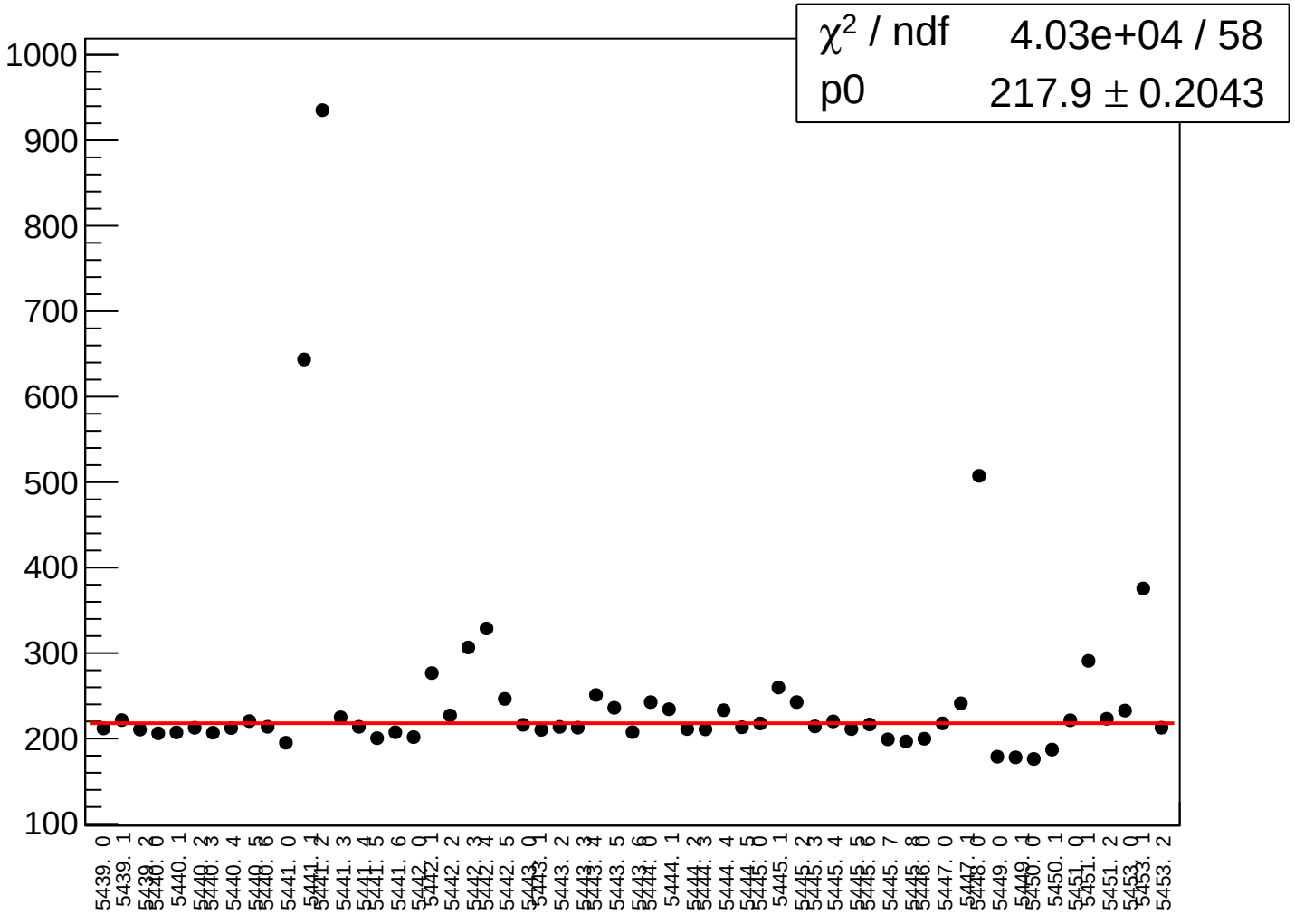

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3.959e+04 / 58
p0 218.1 ± 0.2044
1000
900
800
700
600
500
400
300
200

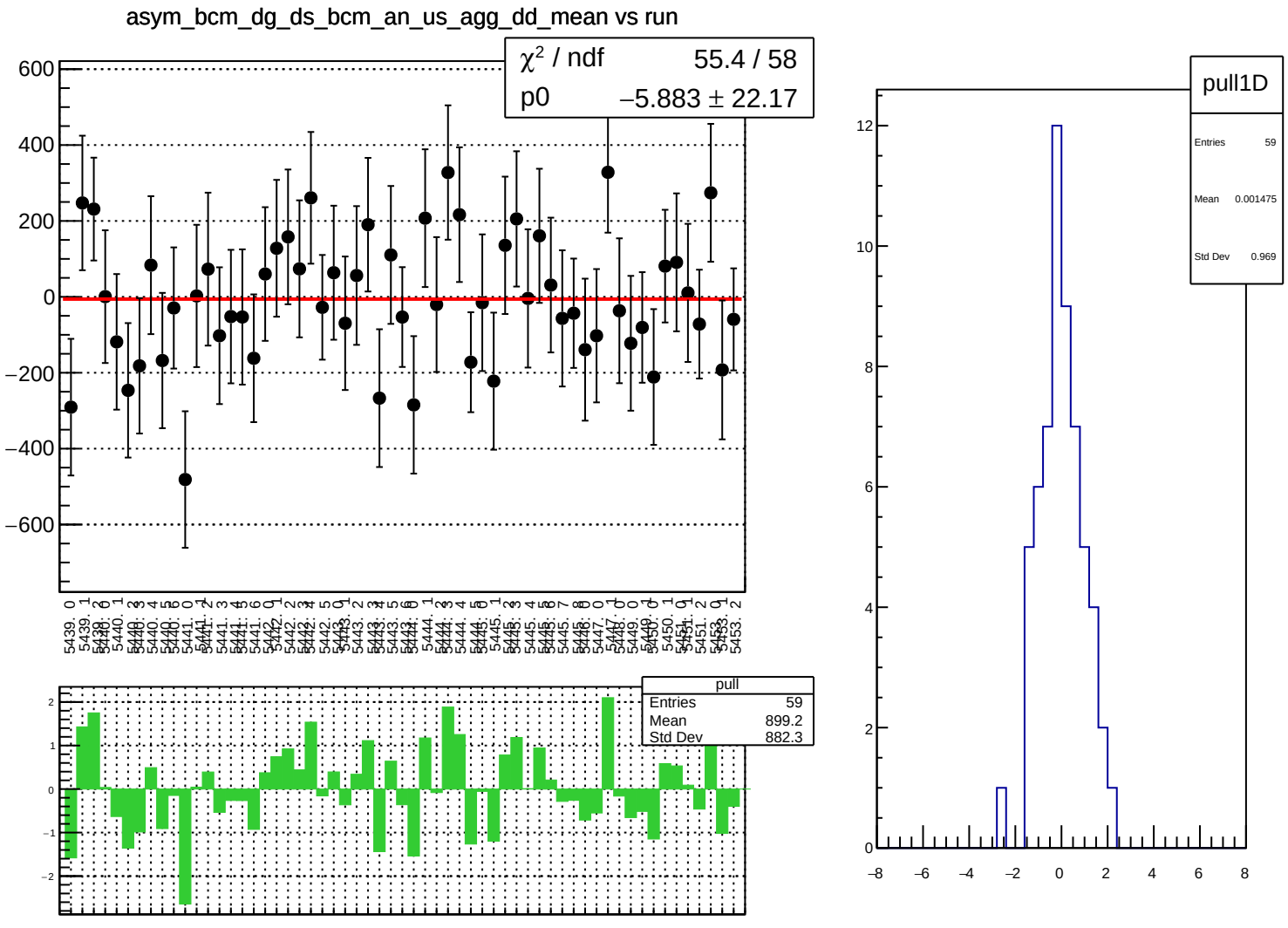

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 72.71 / 58
p0 −8.83 ± 31.46
1000
500
0
−500
−1000
pull
Entries 59
Mean −192.9
Std Dev 222.8
pull1D
Entries 59
Mean 0.01873
Std Dev 1.11
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

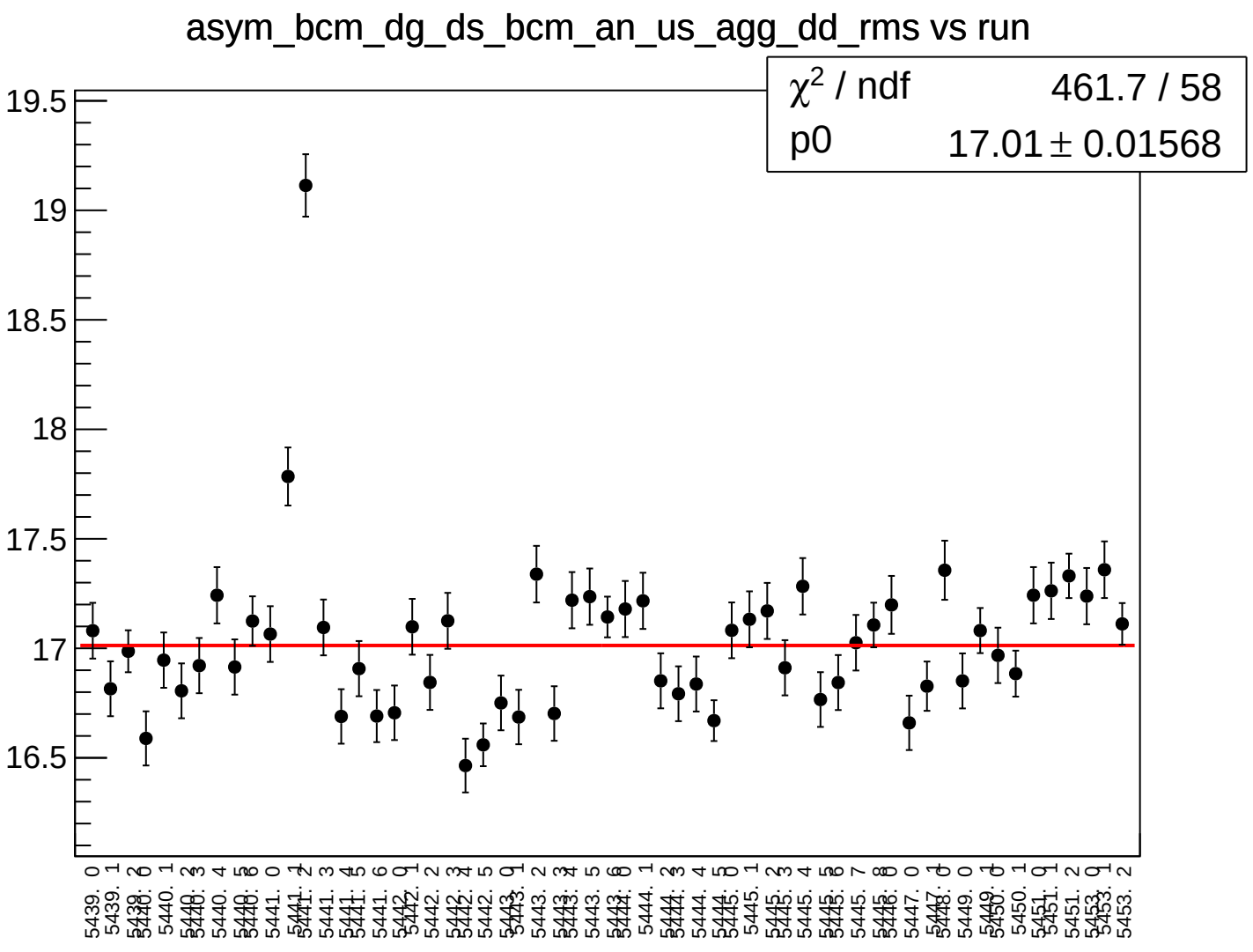

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 205.4 / 58
p0 24.15 ± 0.02225
25
24.5
24
23.5
23

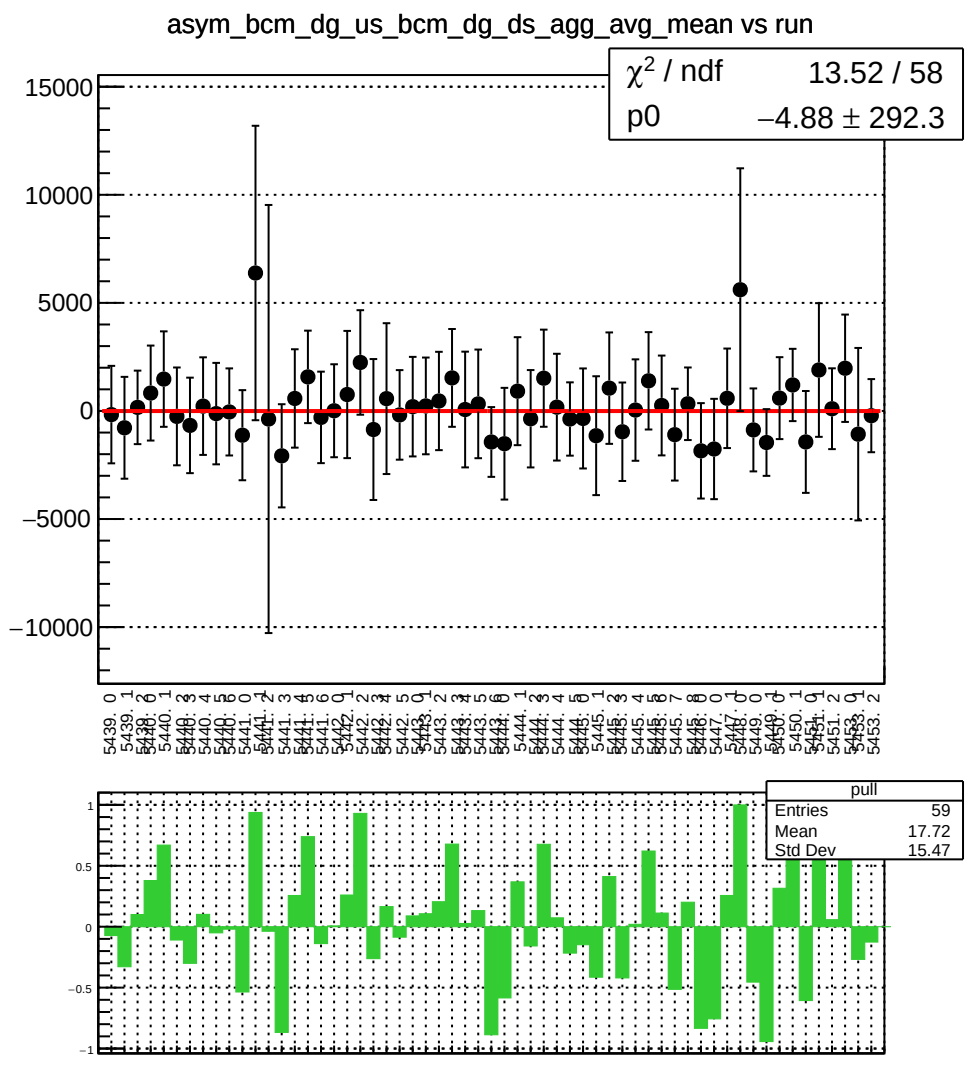

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 12.96 / 58
p0 15.6 ± 288.9
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 32.11
Std Dev 20.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

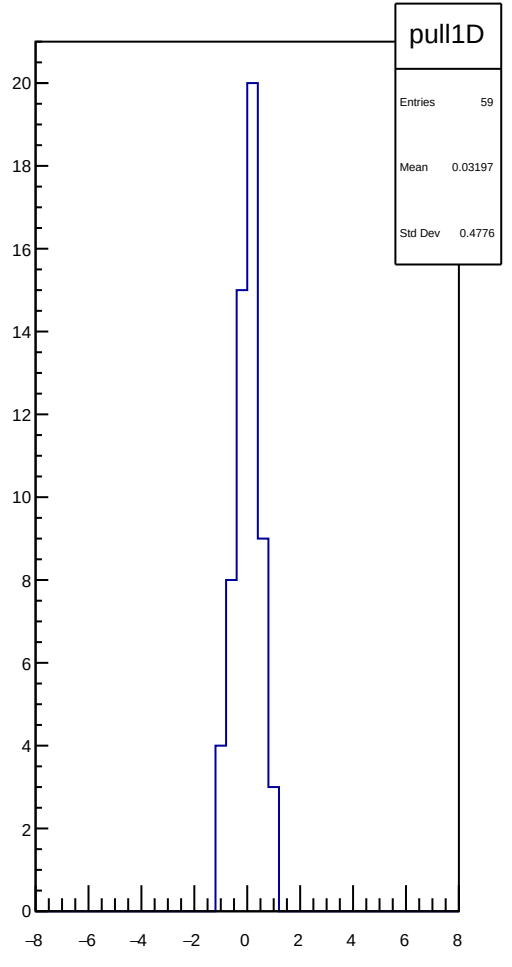

pull1D
Entries 59
Mean 0.0279
Std Dev 0.4679
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

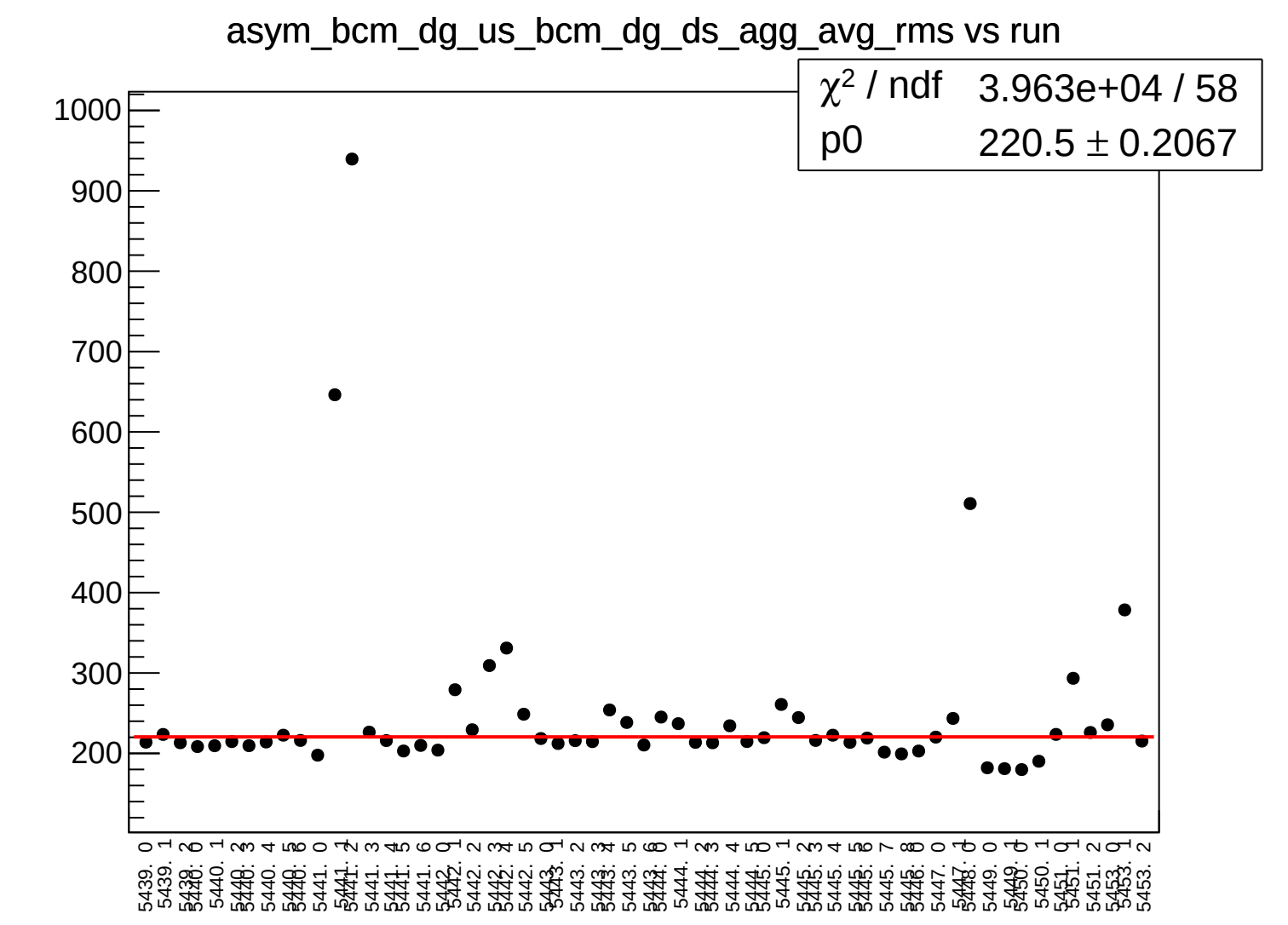

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4.03e+04 / 58
p0 217.9 ± 0.2043
1000
900
800
700
600
500
400
300
200
100

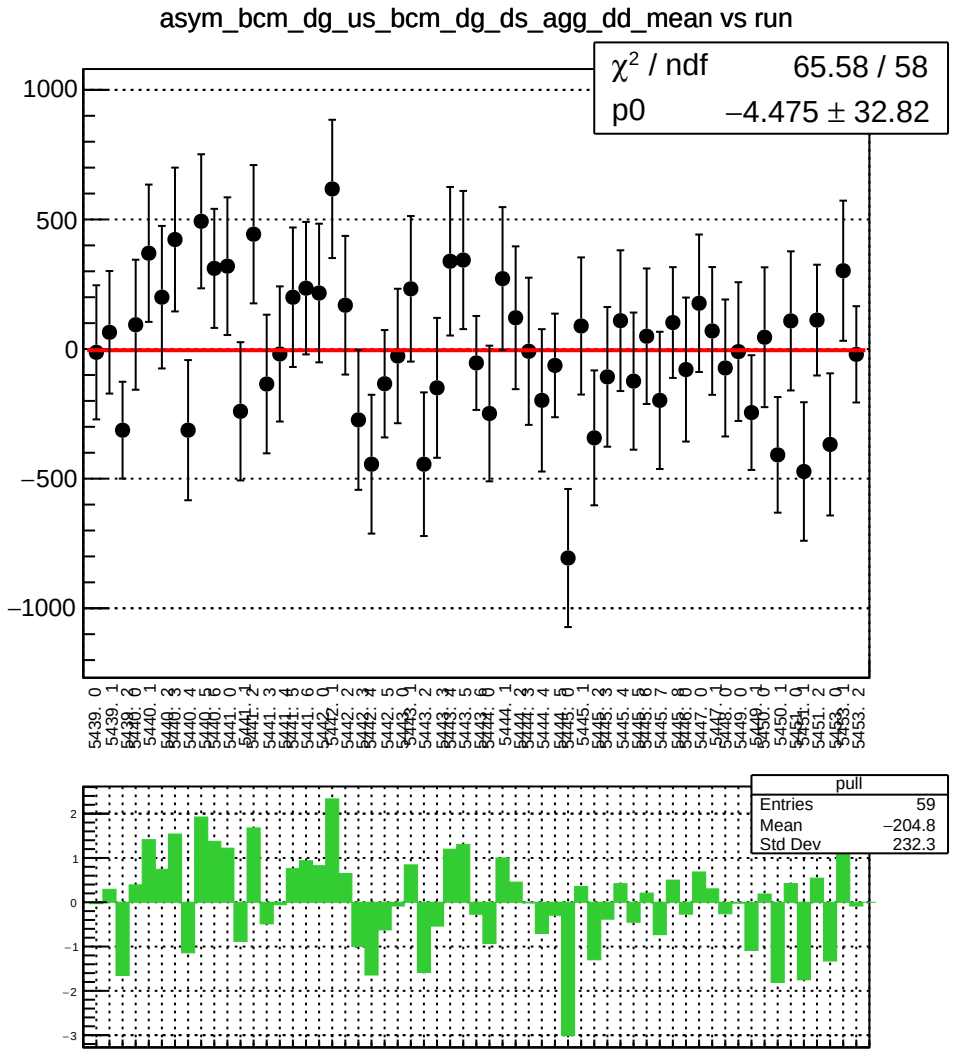

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 55.4 / 58
p0 −5.883 ± 22.17
pull
Entries 59
Mean 899.2
Std Dev 882.3
pull1D
Entries 59
Mean 0.001475
Std Dev 0.969

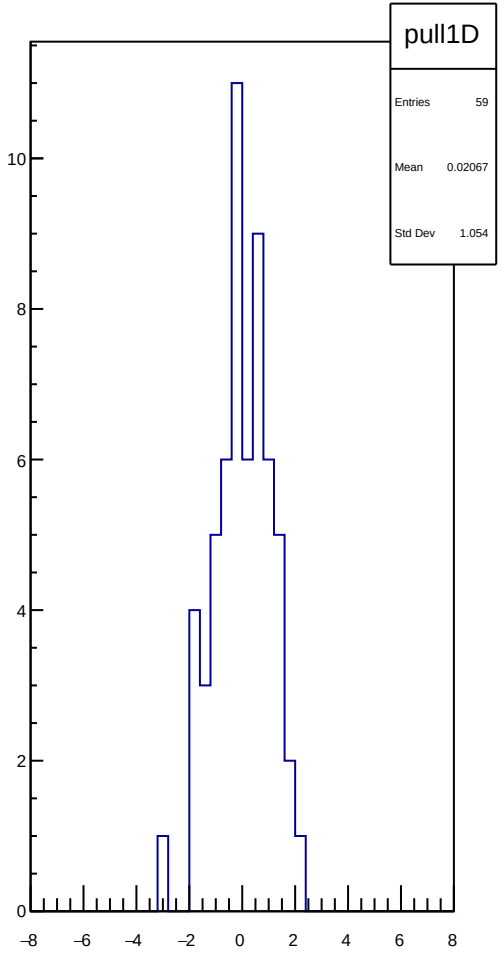

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 461.7 / 58
p0 17.01 ± 0.01568
19.5
19
18.5
18
17.5
17
16.5

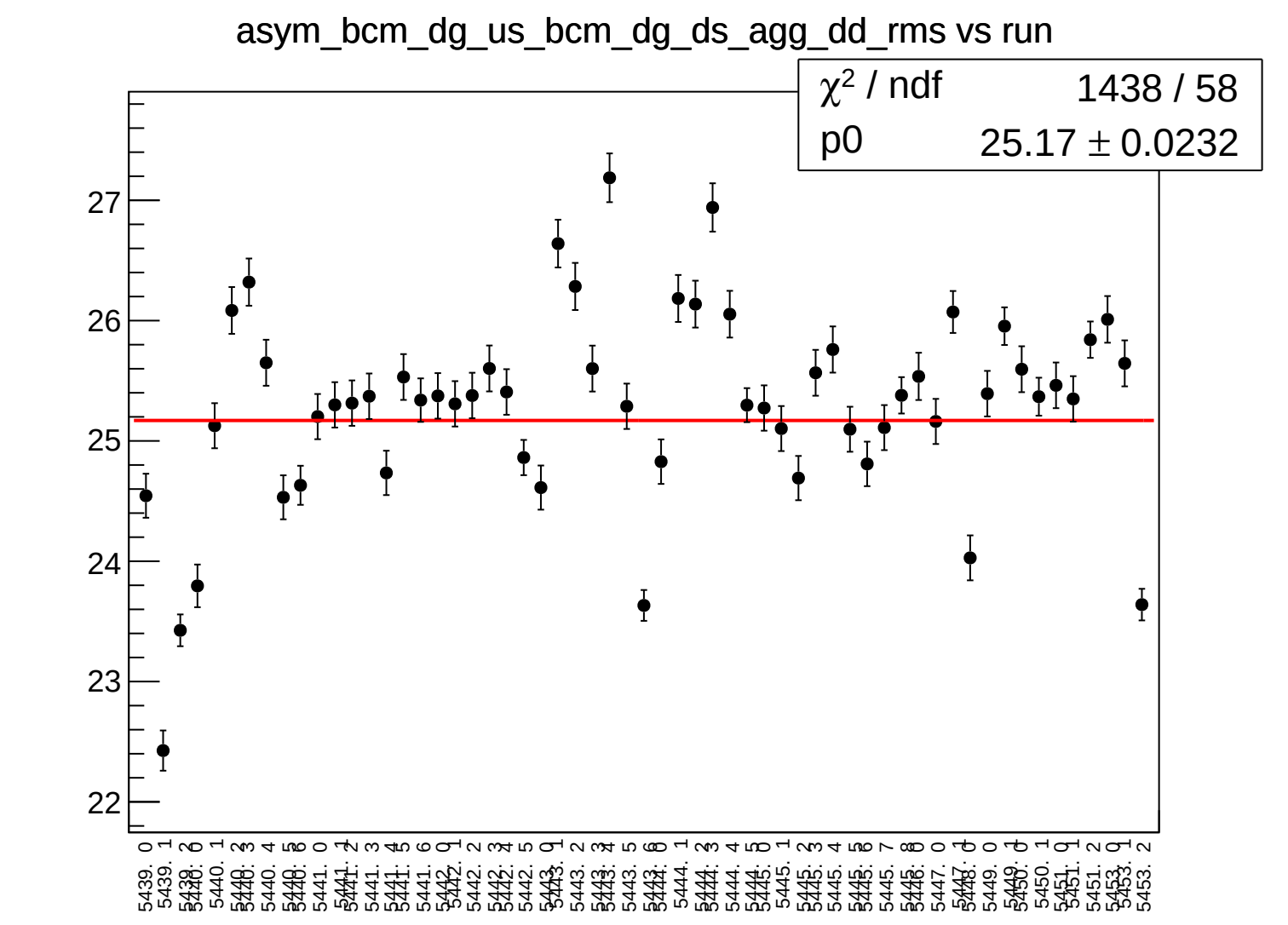

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 13.52 / 58
p0 −4.88 ± 292.3
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 17.72
Std Dev 15.47
1
0.5
0
−0.5
−1

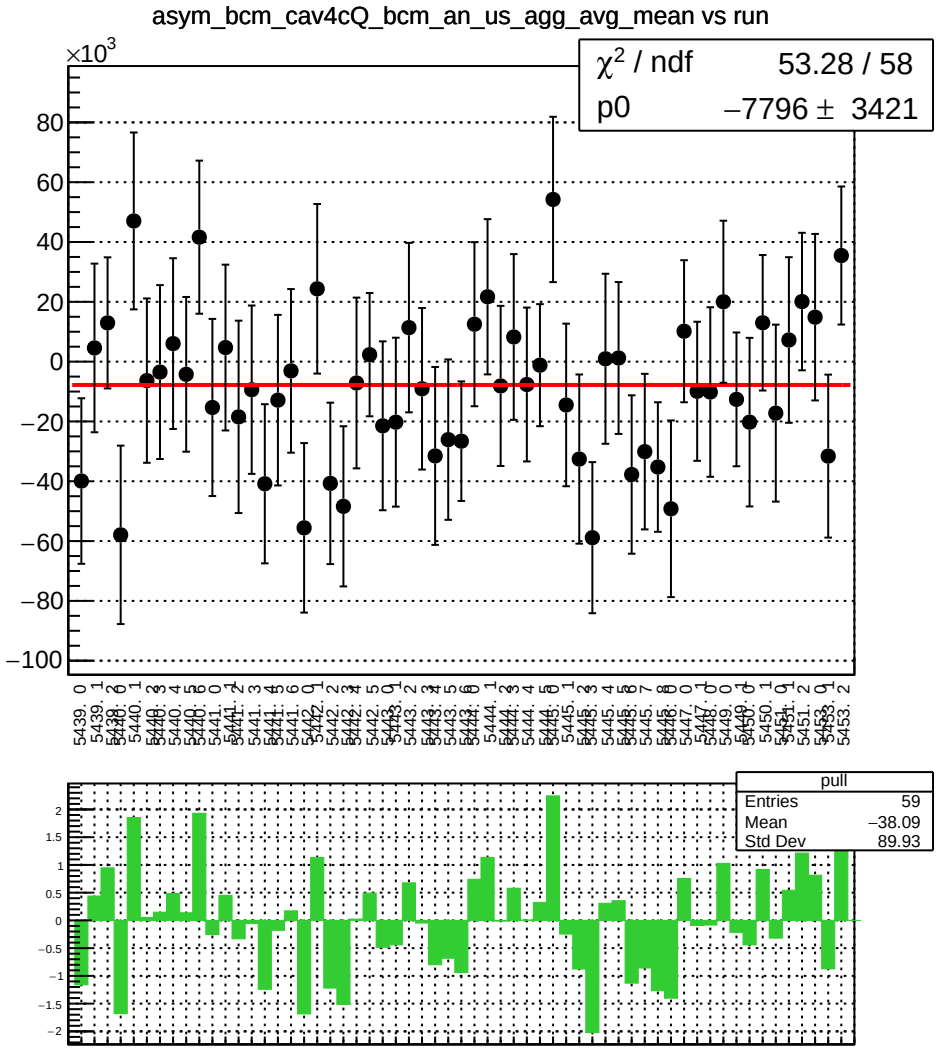

pull1D
Entries 59
Mean 0.03197
Std Dev 0.4776
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

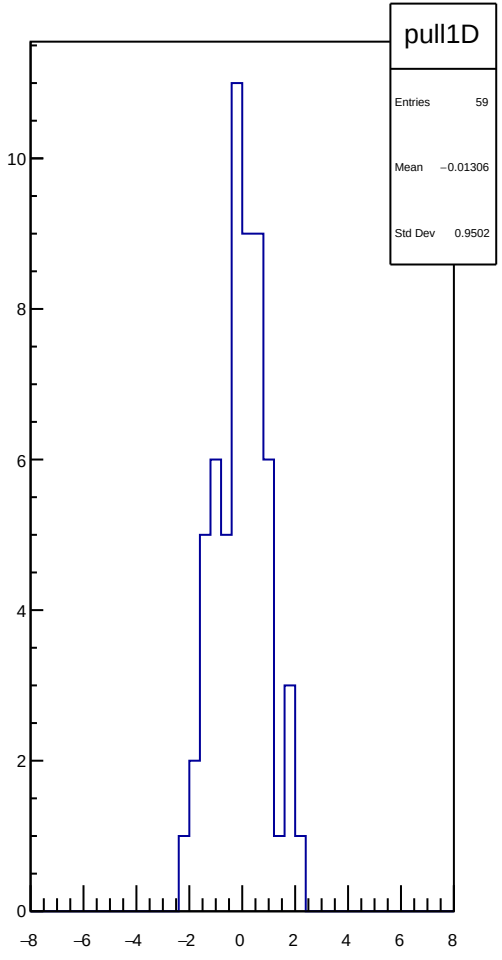

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3.963e+04 / 58
p0 220.5 ± 0.2067
1000
900
800
700
600
500
400
300
200

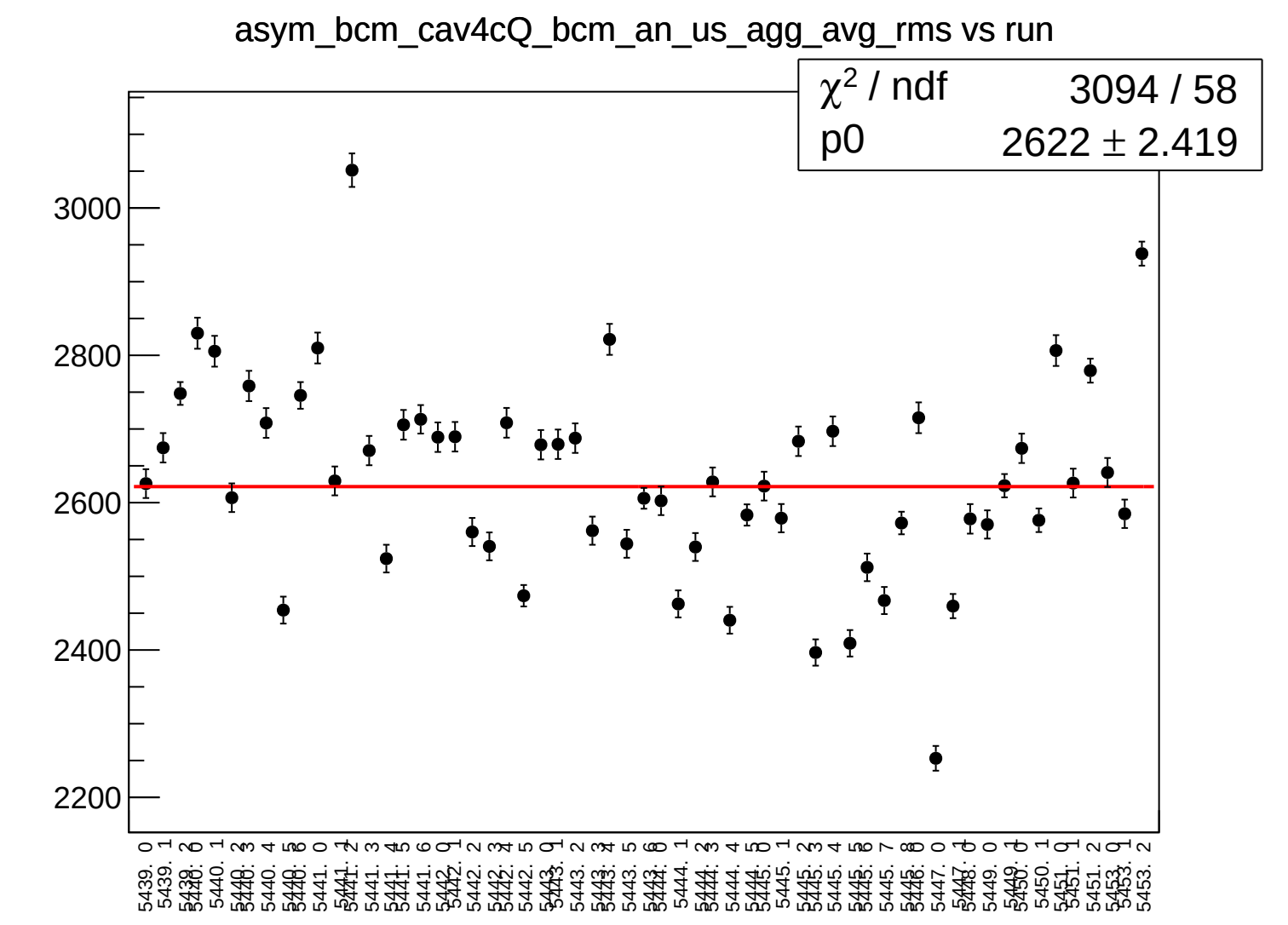

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.58 / 58
p0 −4.475 ± 32.82
1000
500
0
−500
−1000
pull
Entries 59
Mean −204.8
Std Dev 232.3
2
1
0
−1
−2
−3

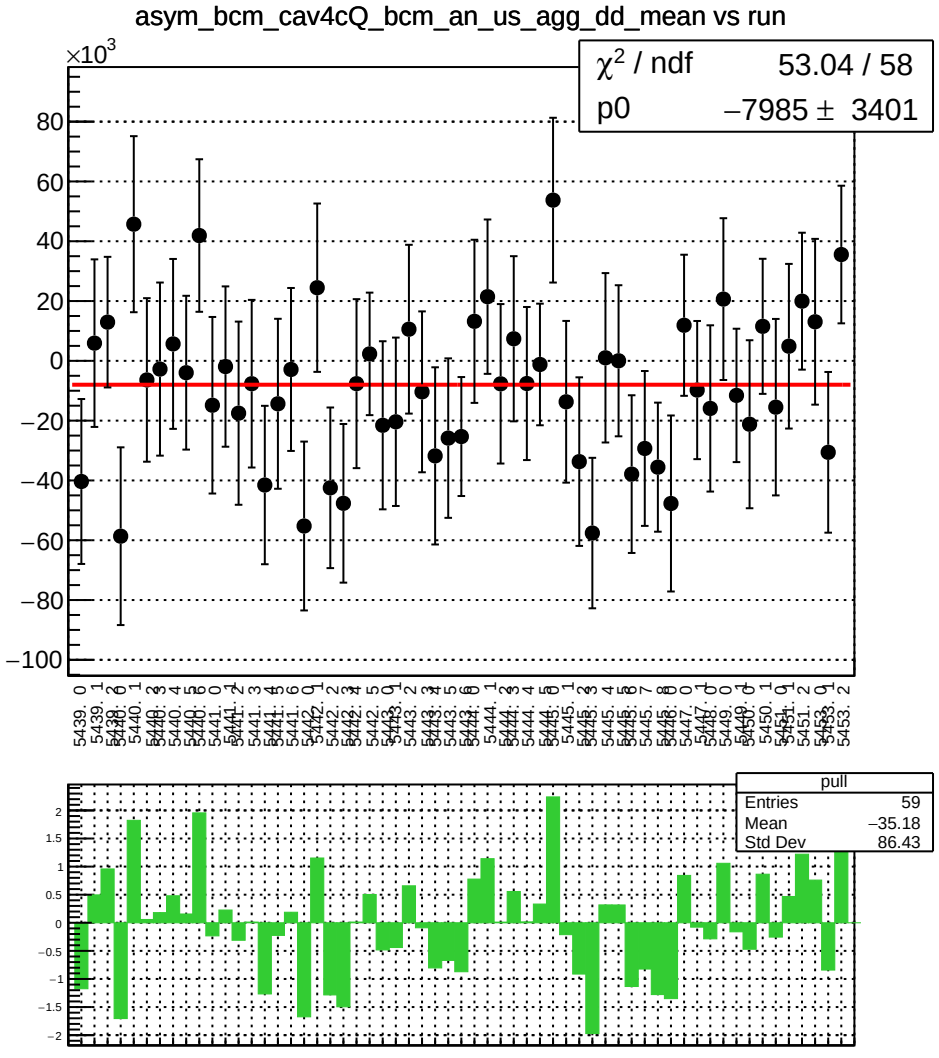

pull1D
Entries 59
Mean 0.02067
Std Dev 1.054
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

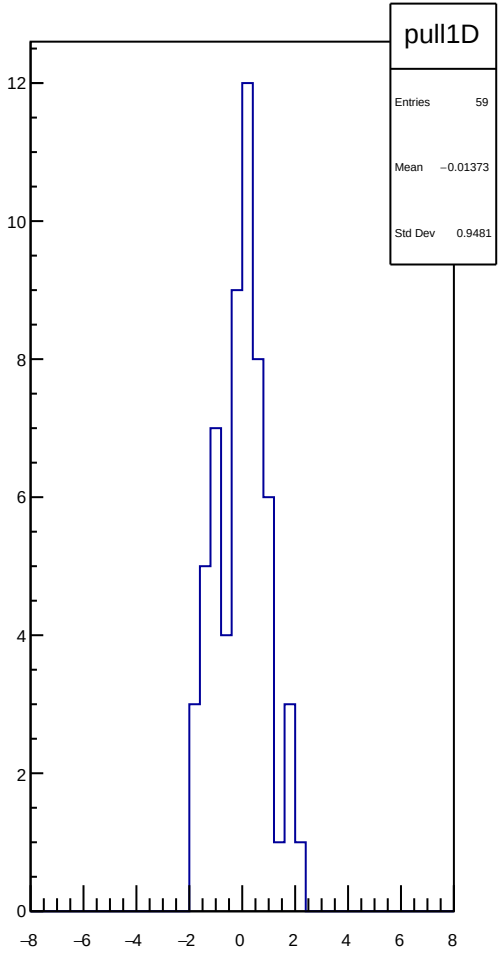

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1438 / 58
p0 25.17 ± 0.0232
27
26
25
24
23
22

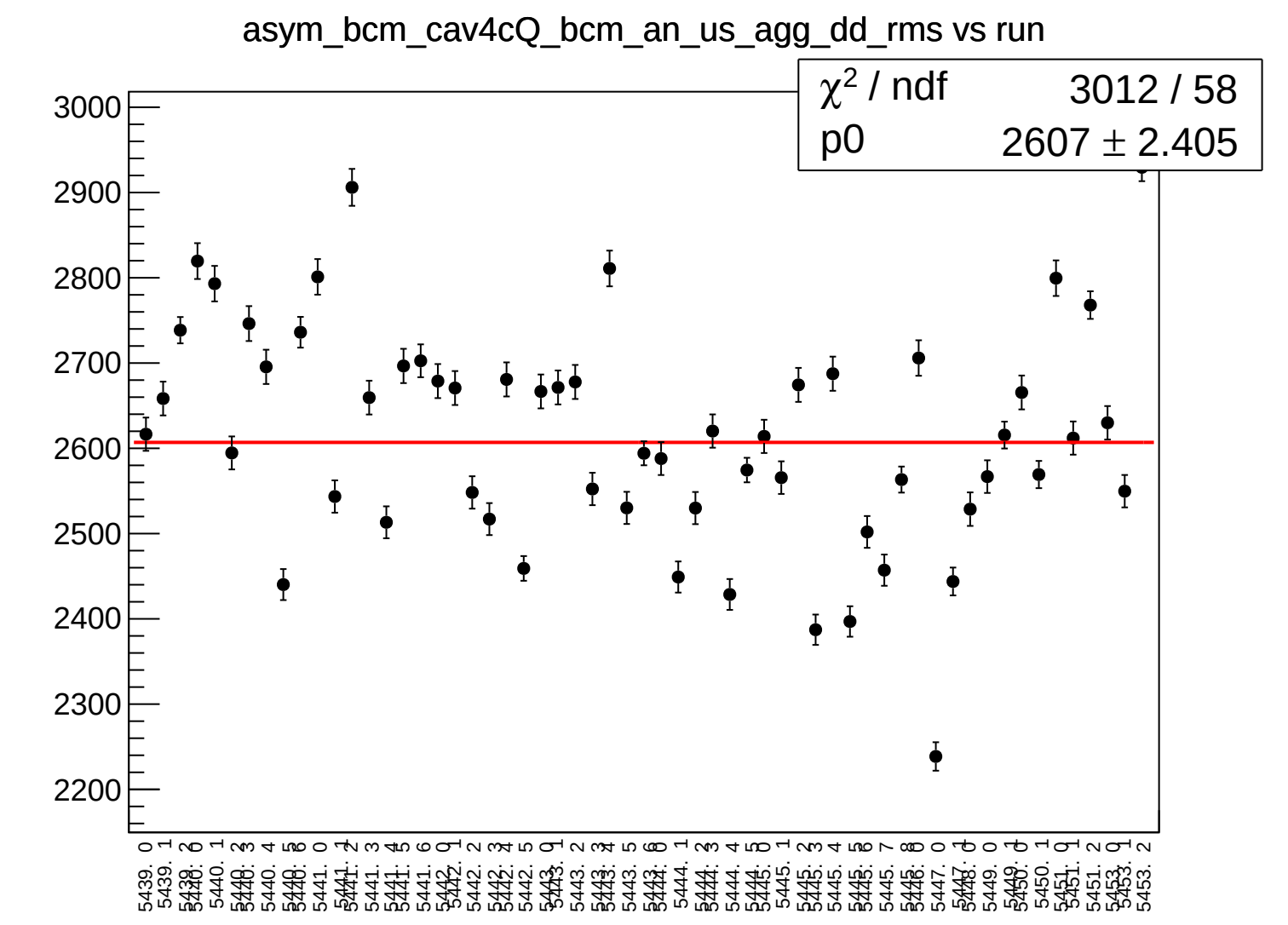

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 53.28 / 58
p0 −7796 ± 3421
pull
Entries 59
Mean −38.09
Std Dev 89.93

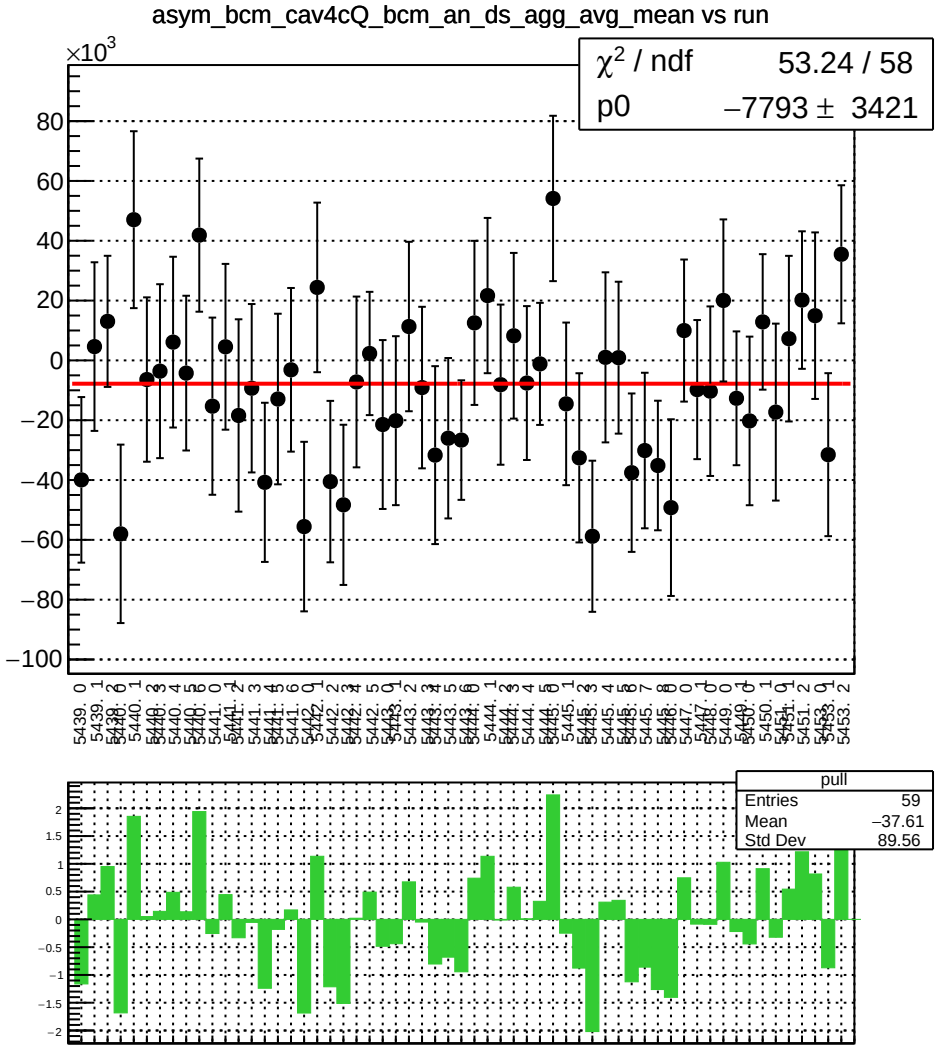

pull1D
Entries 59
Mean −0.01306
Std Dev 0.9502

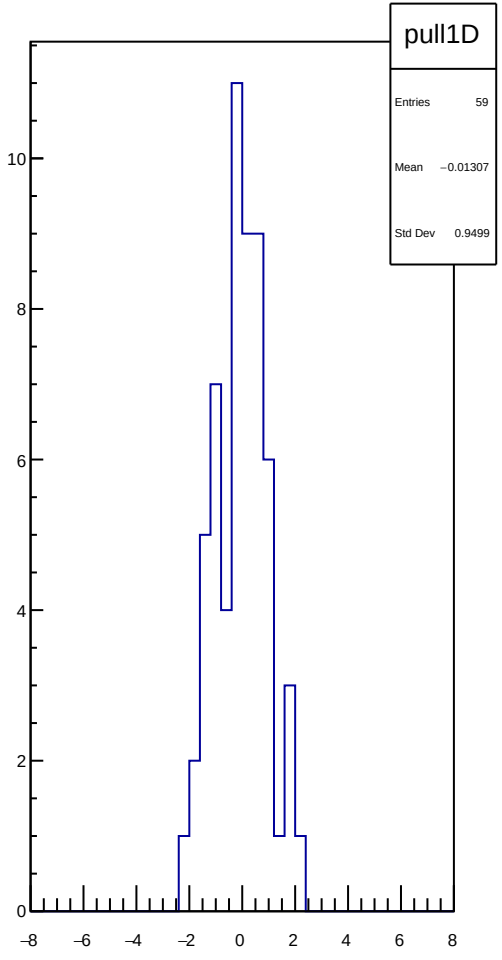

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 3094 / 58
p0 2622 ± 2.419
3000
2800
2600
2400
2200

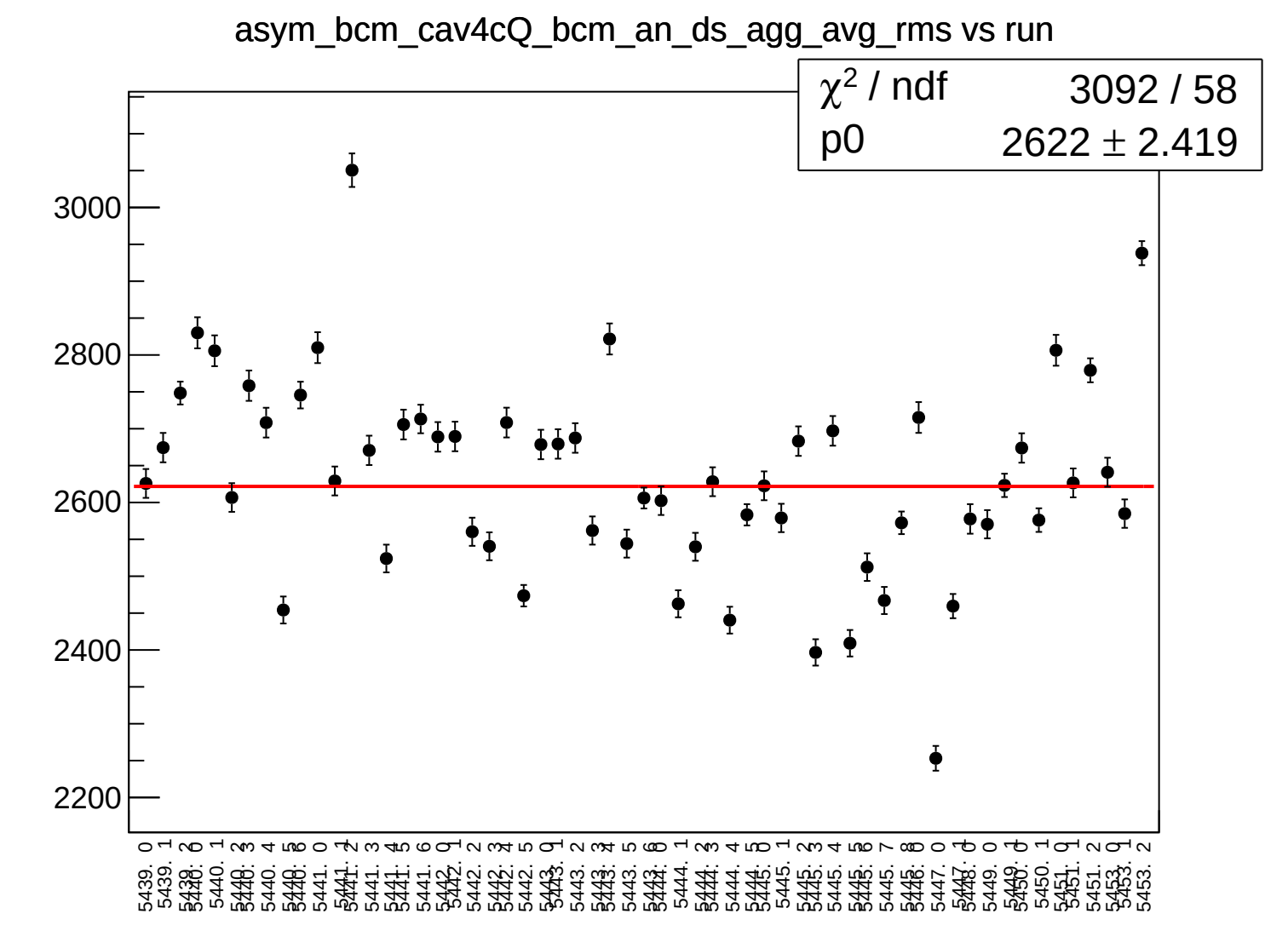

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 53.04 / 58
p0 −7985 ± 3401
pull
Entries 59
Mean −35.18
Std Dev 86.43

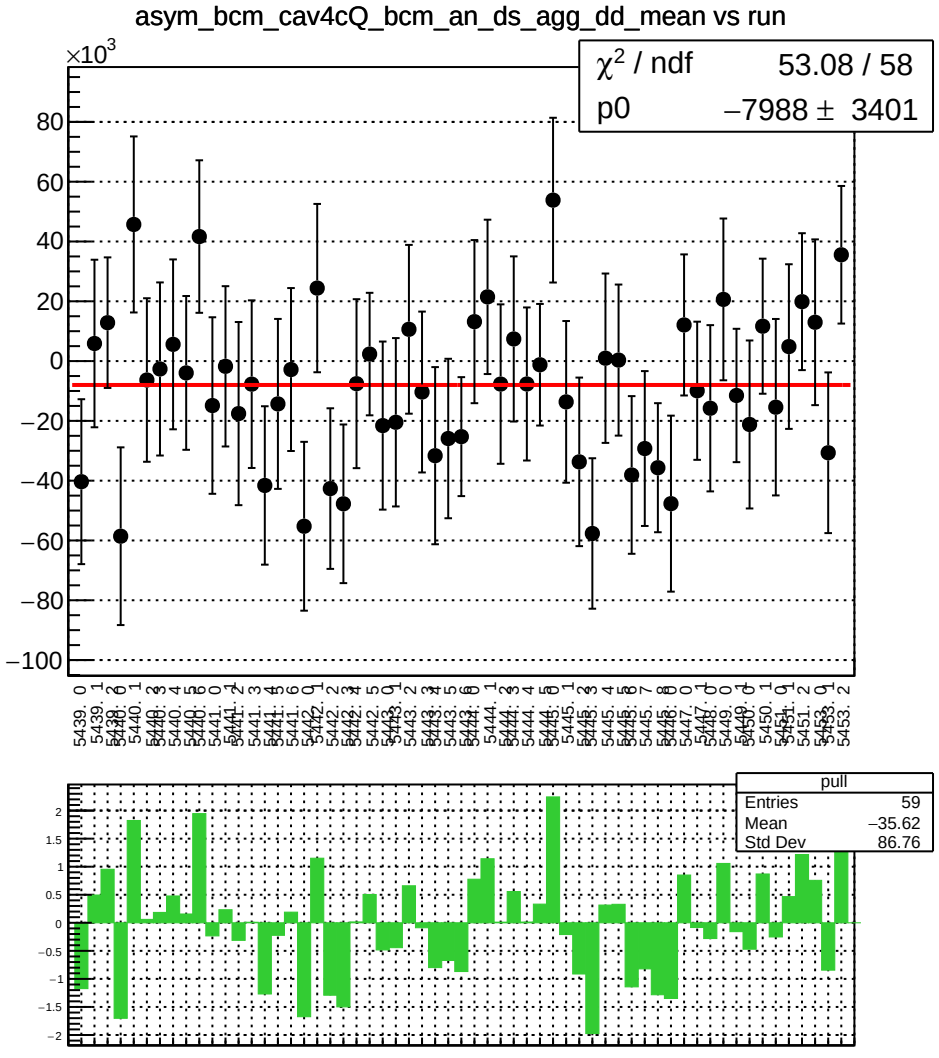

pull1D
Entries 59
Mean −0.01373
Std Dev 0.9481

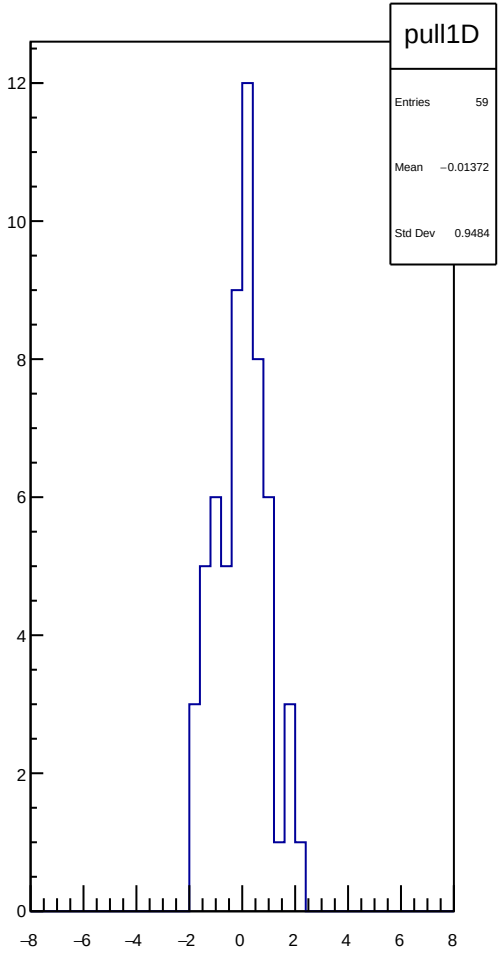

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3012 / 58
p0 2607 ± 2.405
3000
2900
2800
2700
2600
2500
2400
2300
2200

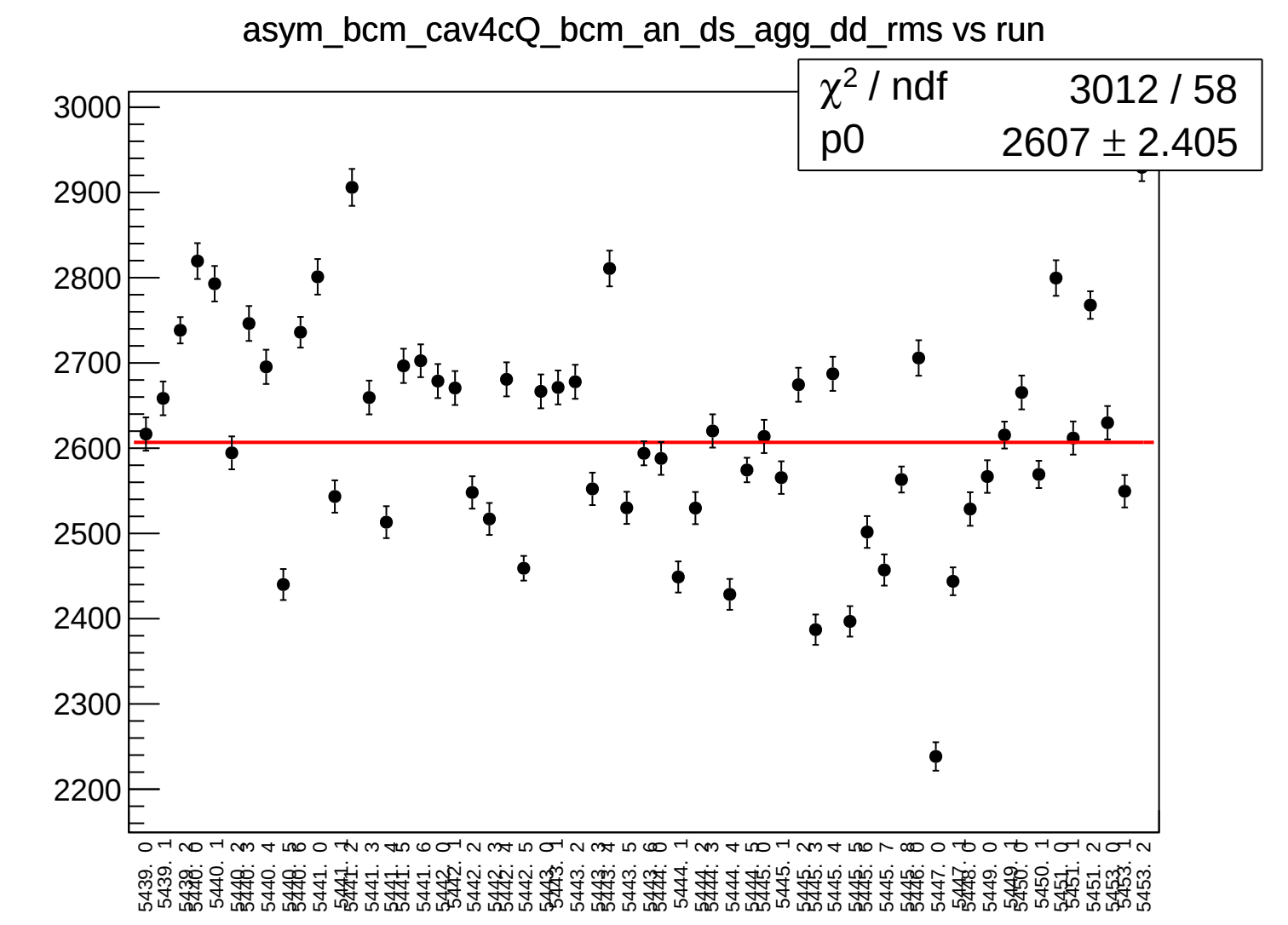

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 53.24 / 58
p0 −7793 ± 3421
×10³
pull
Entries 59
Mean −37.61
Std Dev 89.56

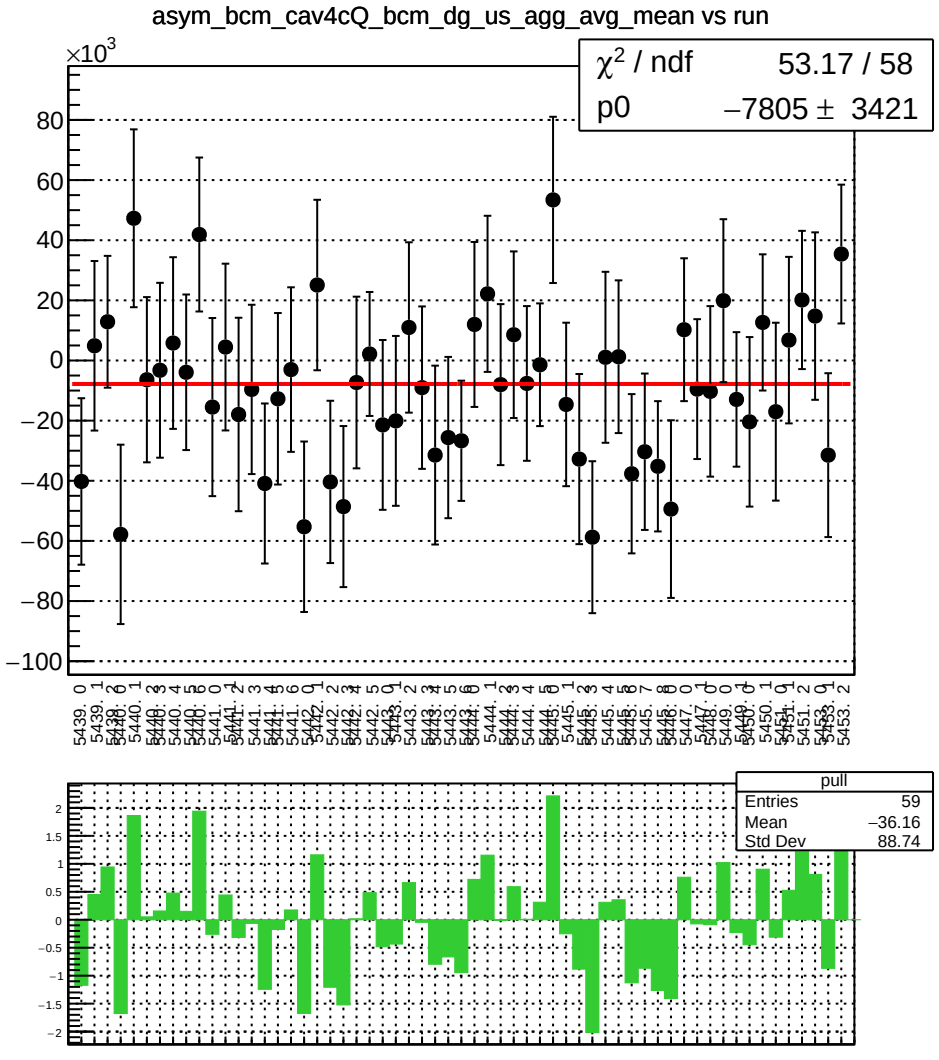

pull1D
Entries 59
Mean −0.01307
Std Dev 0.9499

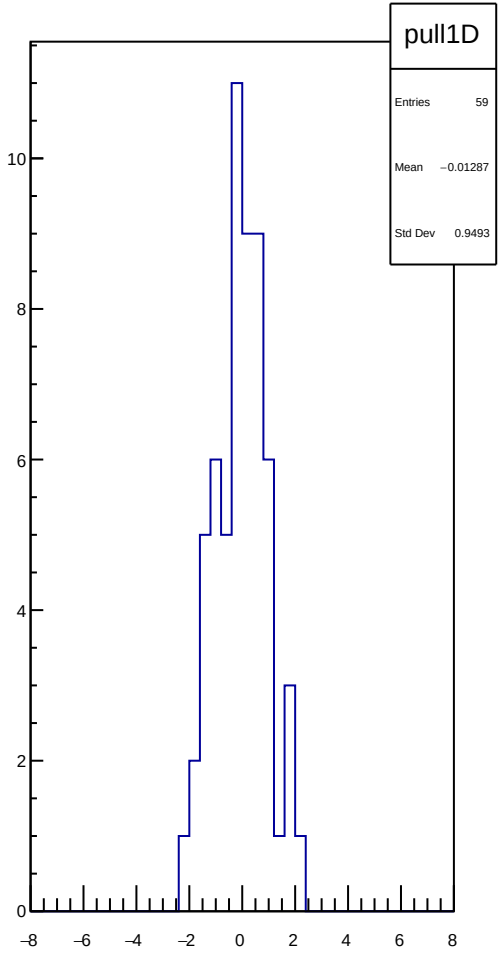

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 3092 / 58
p0 2622 ± 2.419
3000
2800
2600
2400
2200

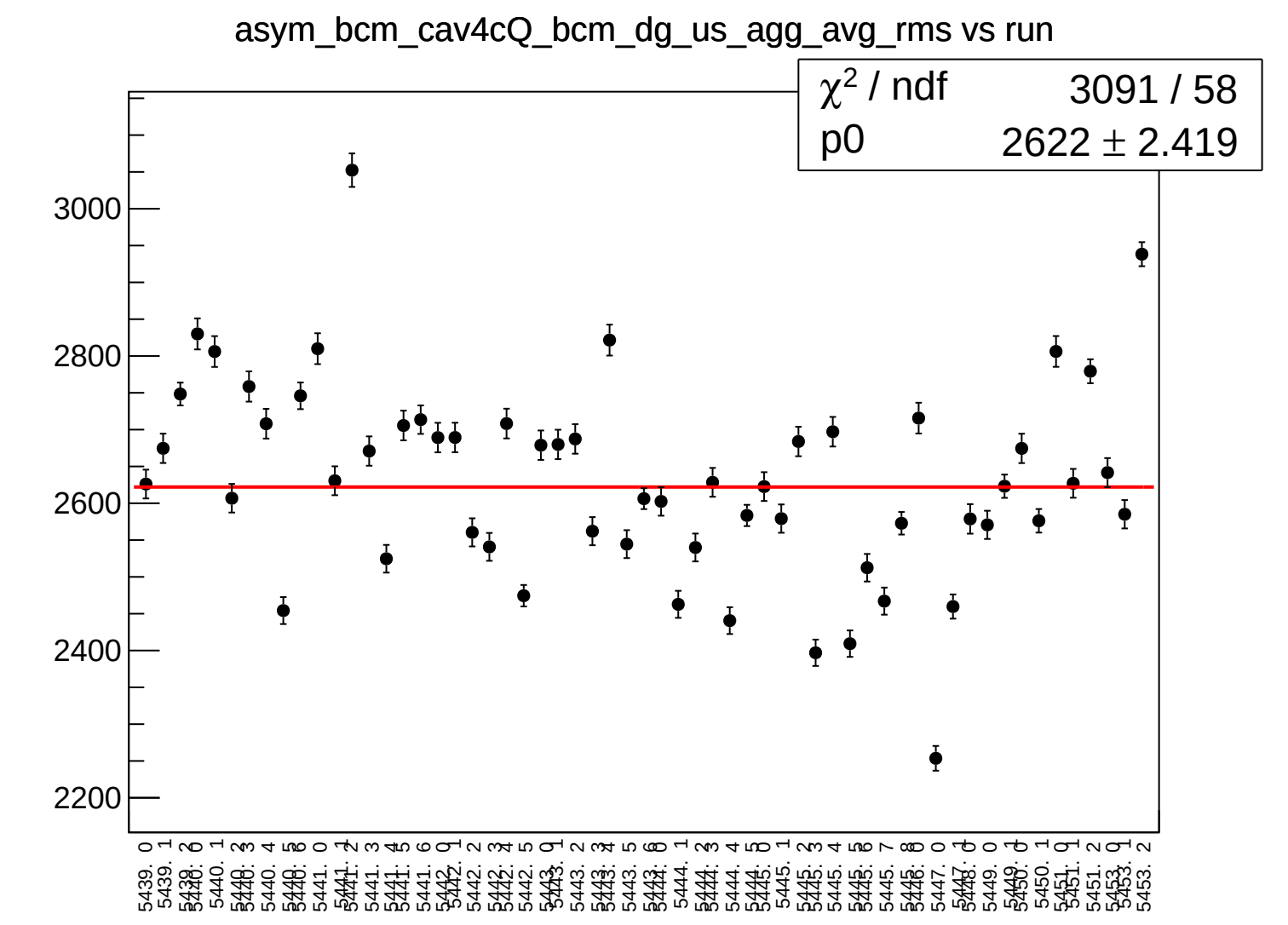

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ² / ndf 53.08 / 58
p0 −7988 ± 3401
pull
Entries 59
Mean −35.62
Std Dev 86.76

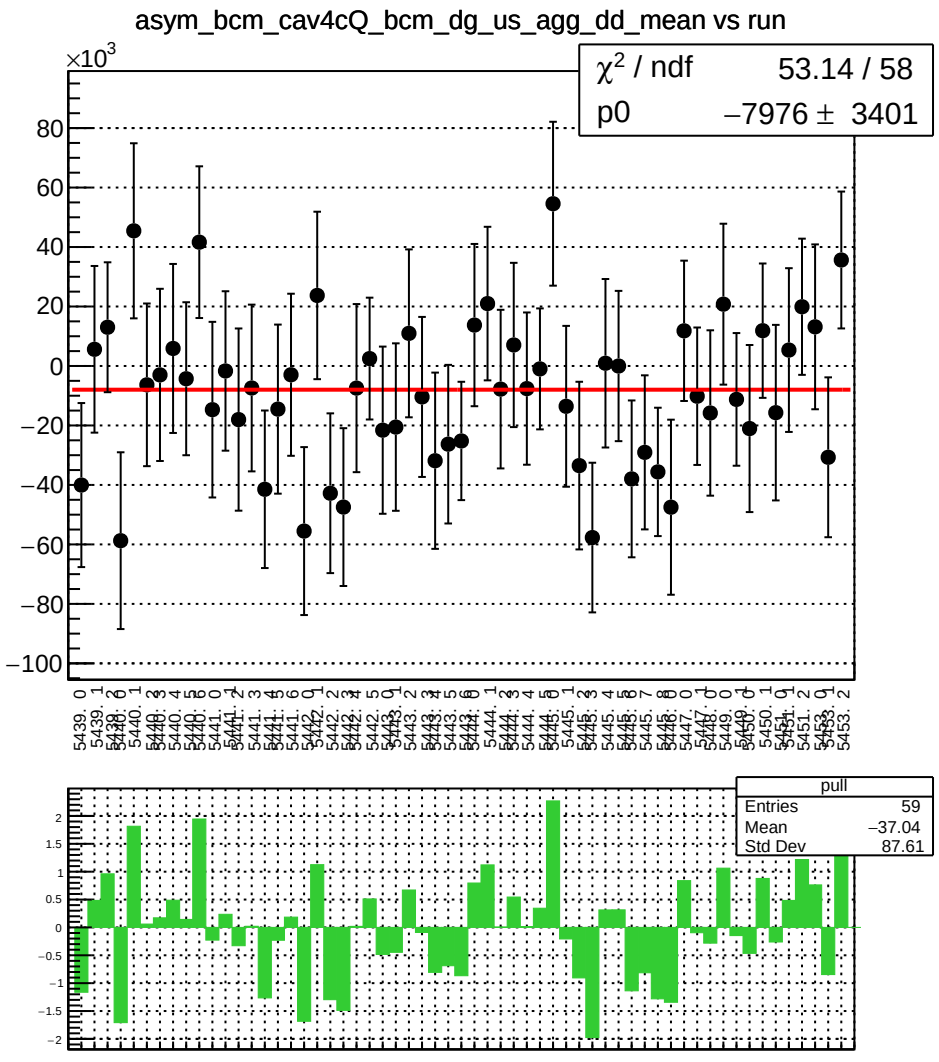

pull1D
Entries 59
Mean −0.01372
Std Dev 0.9484

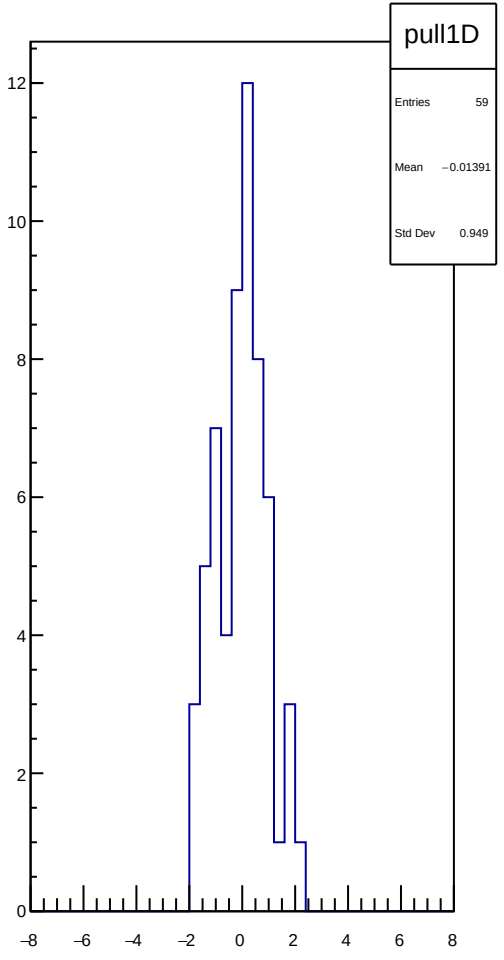

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3012 / 58
p0 2607 ± 2.405
3000
2900
2800
2700
2600
2500
2400
2300
2200

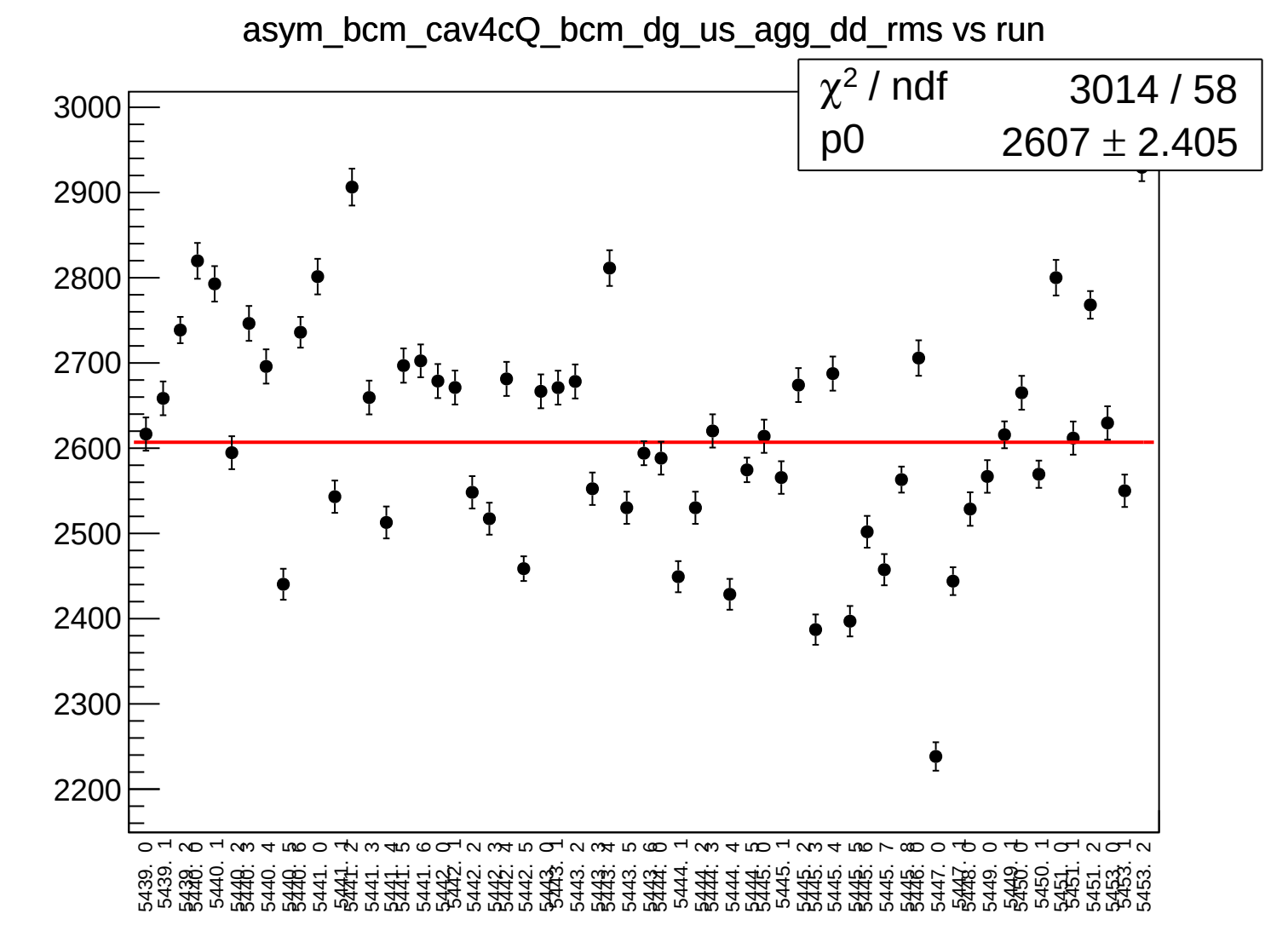

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ² / ndf 53.17 / 58
p0 −7805 ± 3421
pull
Entries 59
Mean −36.16
Std Dev 88.74

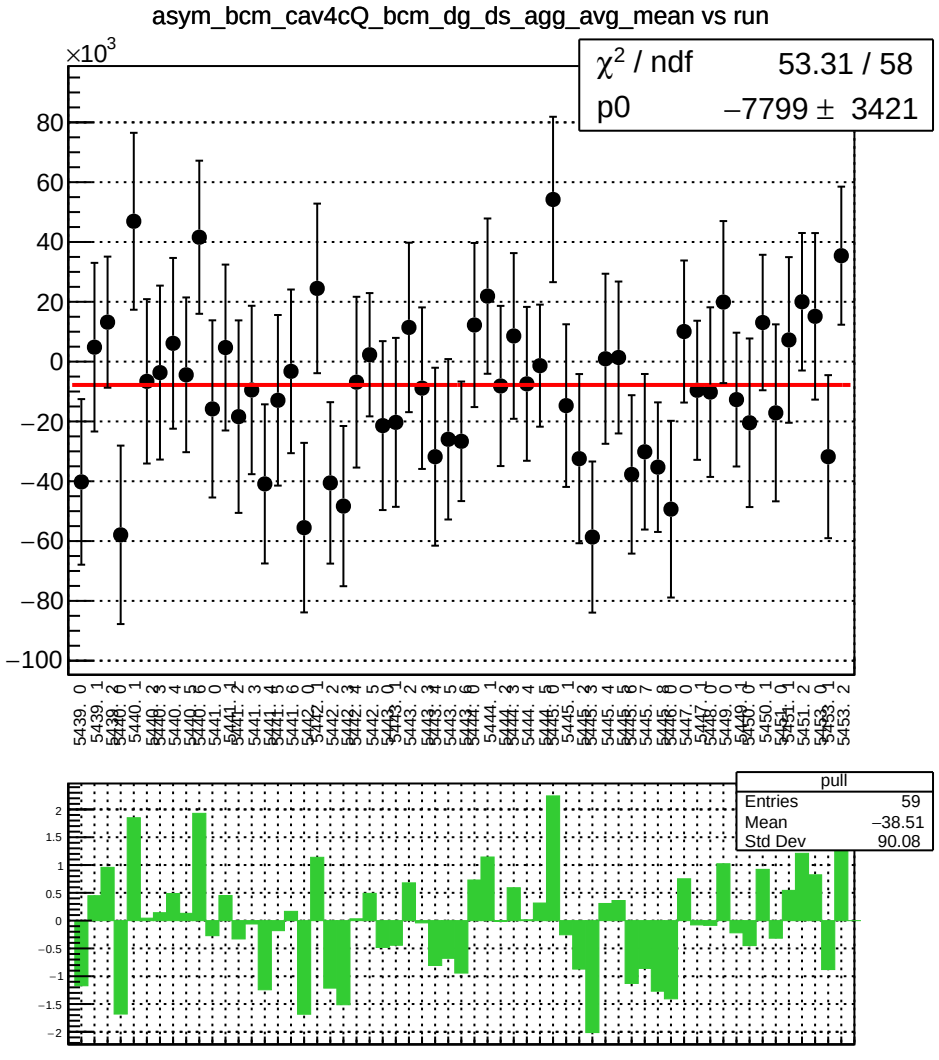

pull1D
Entries 59
Mean −0.01287
Std Dev 0.9493

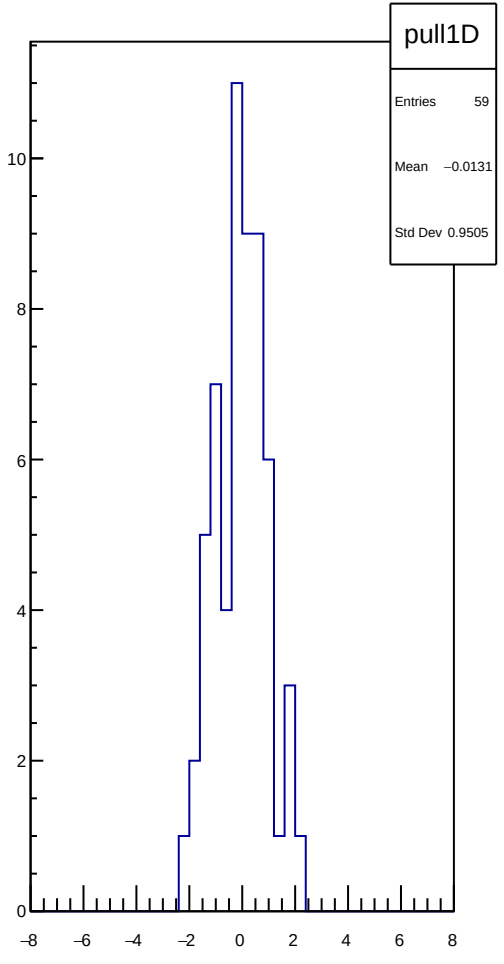

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 3091 / 58
p0 2622 ± 2.419
3000
2800
2600
2400
2200

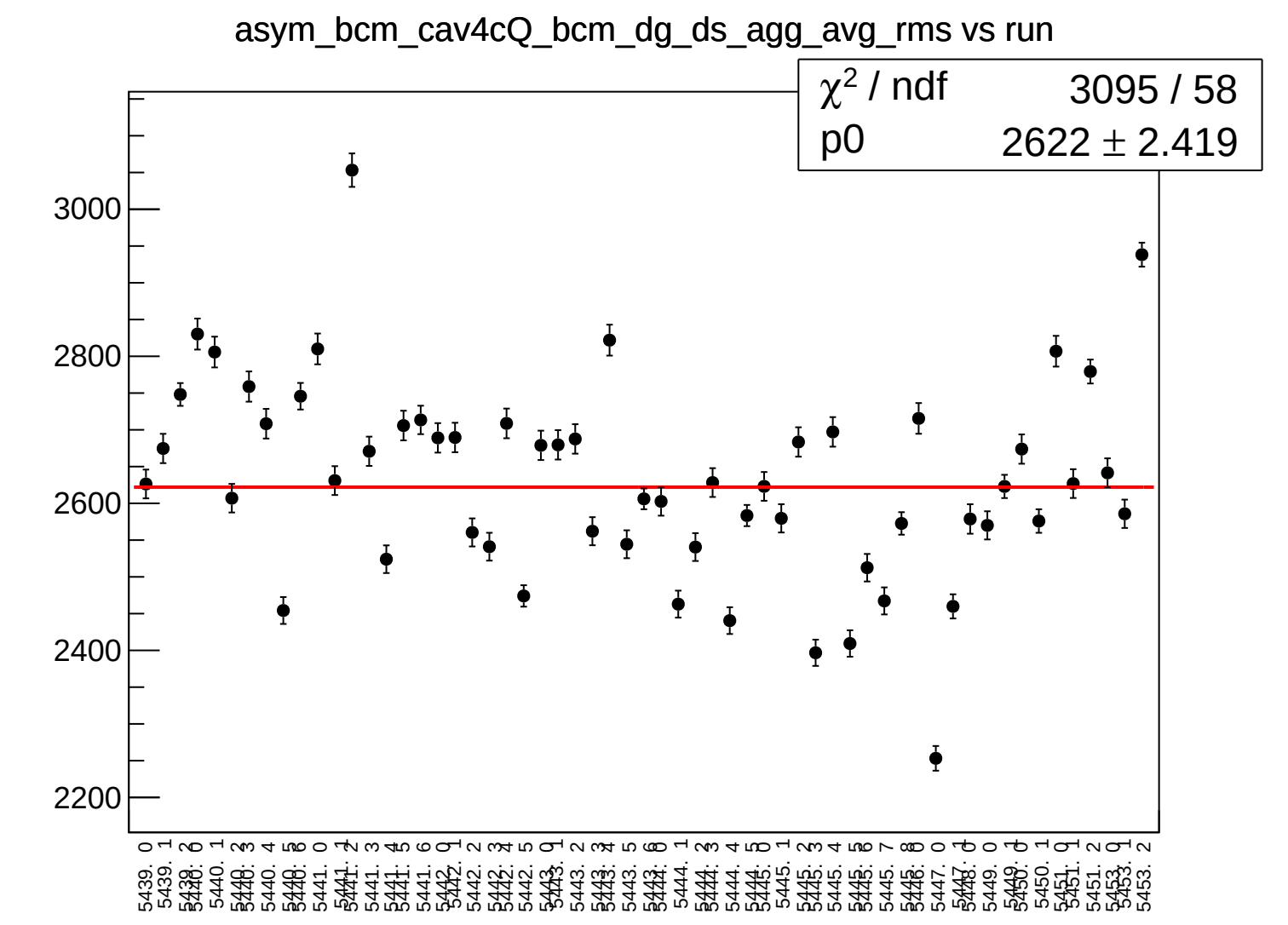

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ^2 / ndf 53.14 / 58
p0 −7976 ± 3401
pull
Entries 59
Mean −37.04
Std Dev 87.61

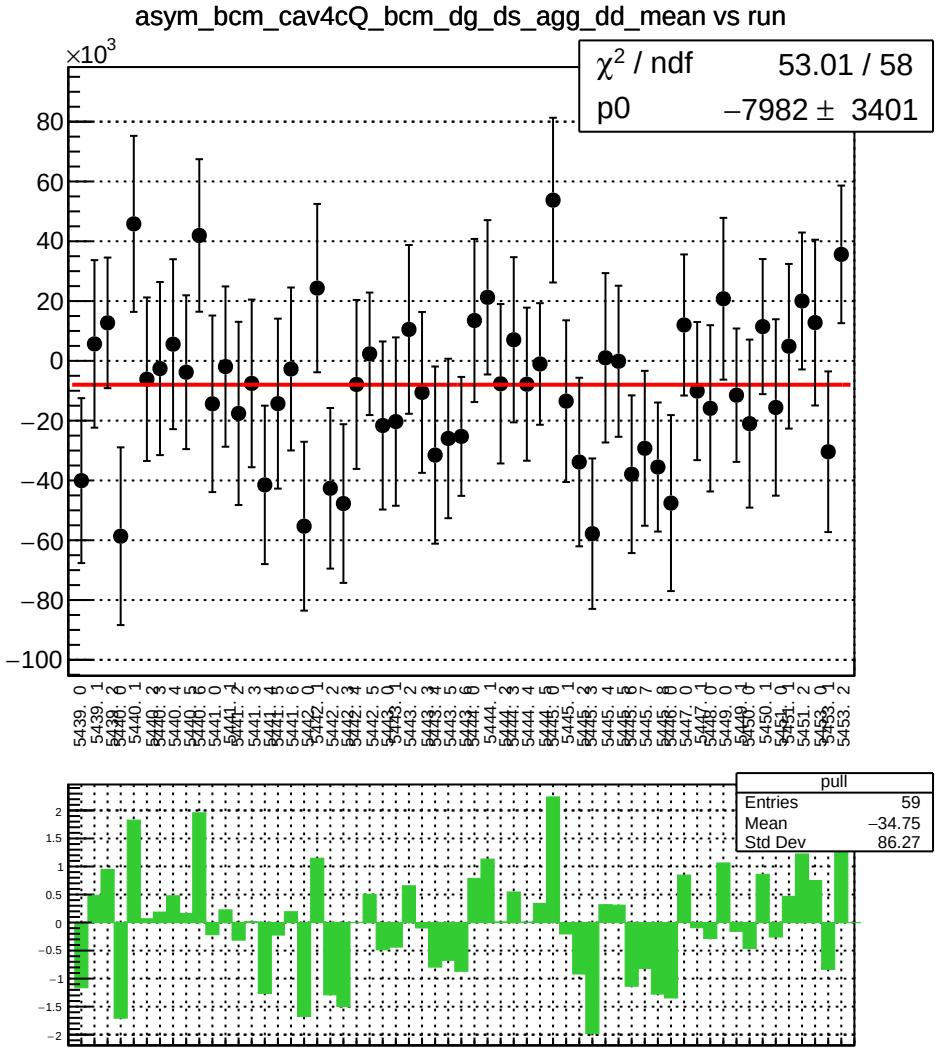

pull1D
Entries 59
Mean −0.01391
Std Dev 0.949

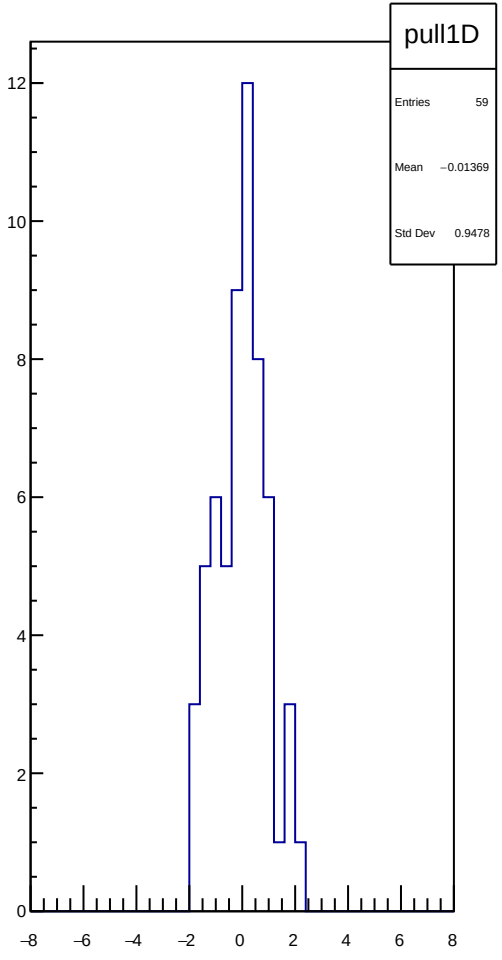

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3014 / 58
p0 2607 ± 2.405
3000
2900
2800
2700
2600
2500
2400
2300
2200

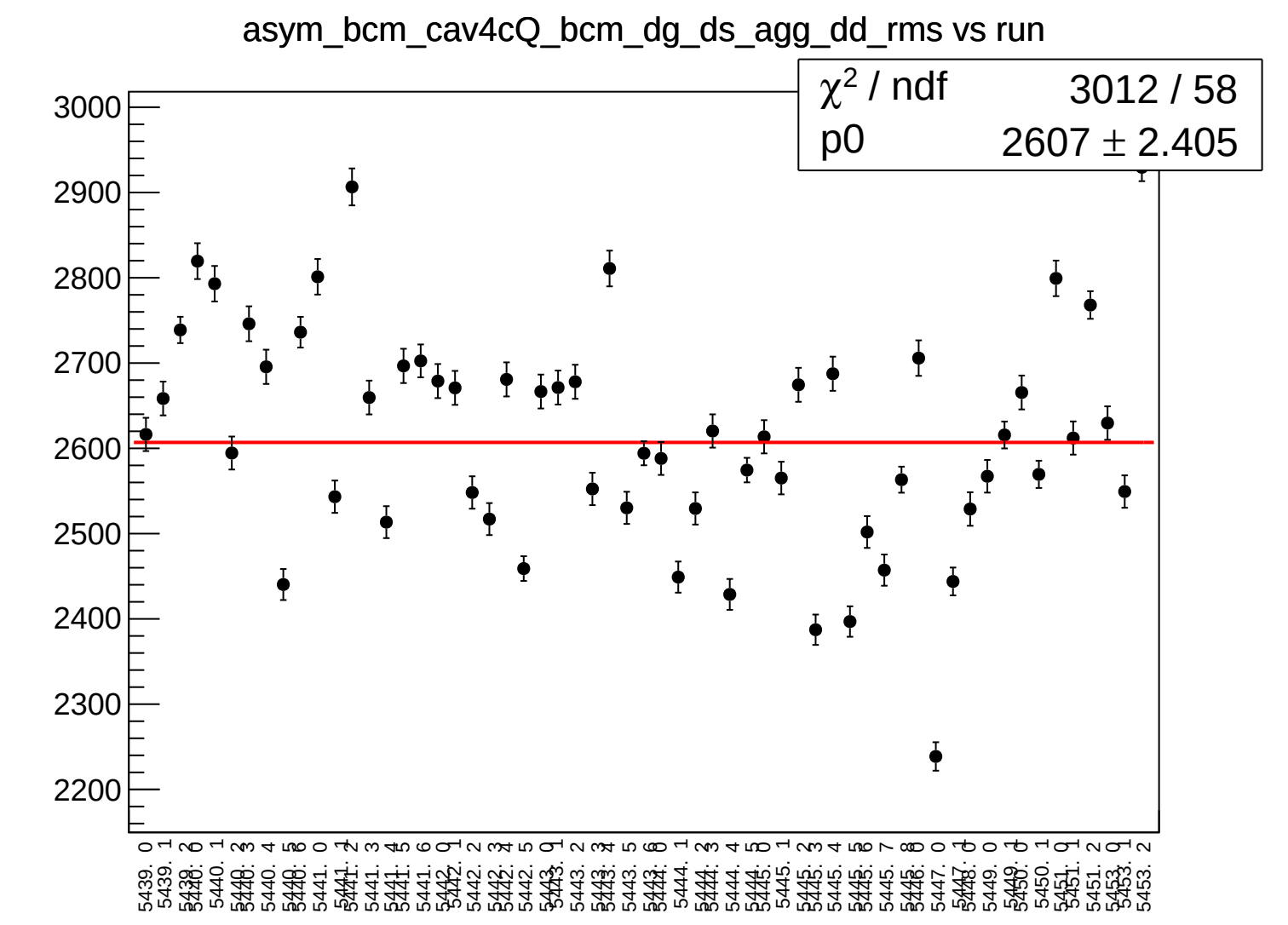

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ² / ndf 53.31 / 58
p0 −7799 ± 3421
pull
Entries 59
Mean −38.51
Std Dev 90.08

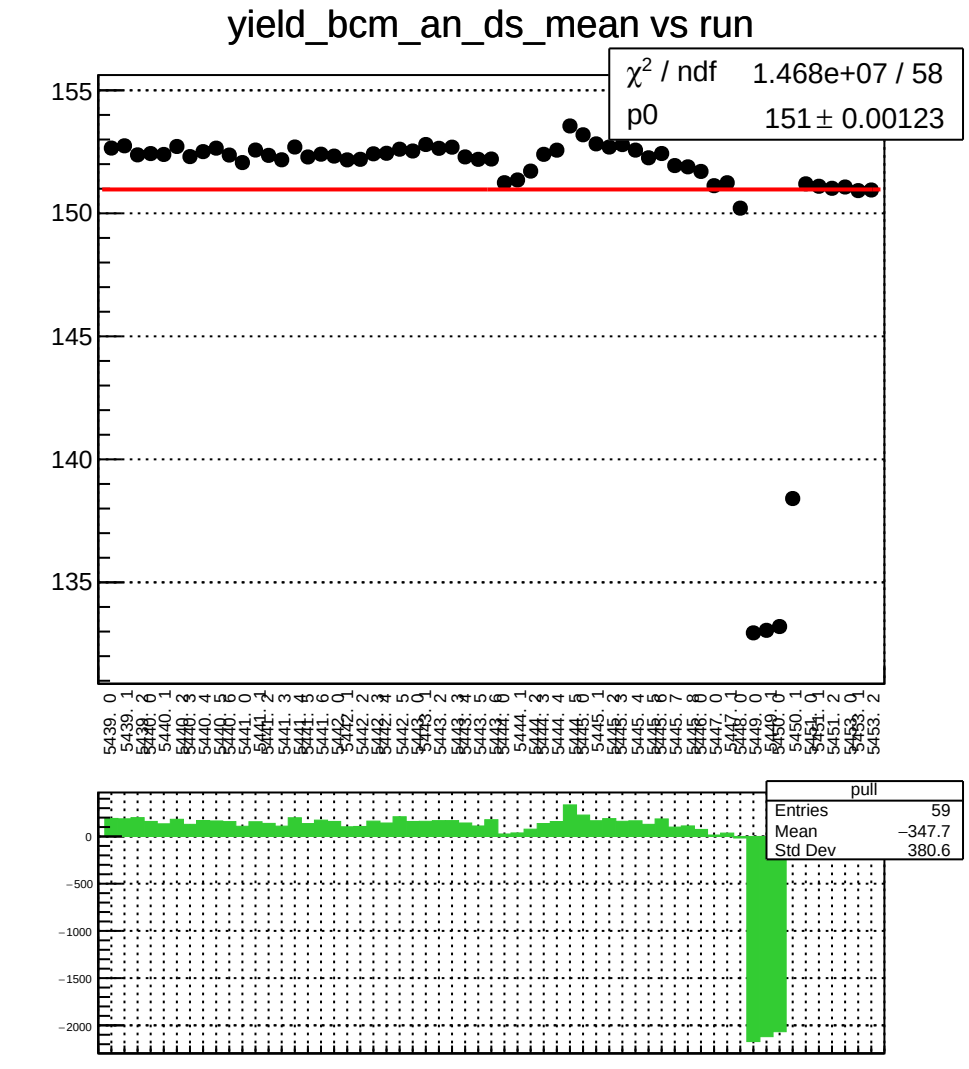

pull1D
Entries 59
Mean −0.0131
Std Dev 0.9505

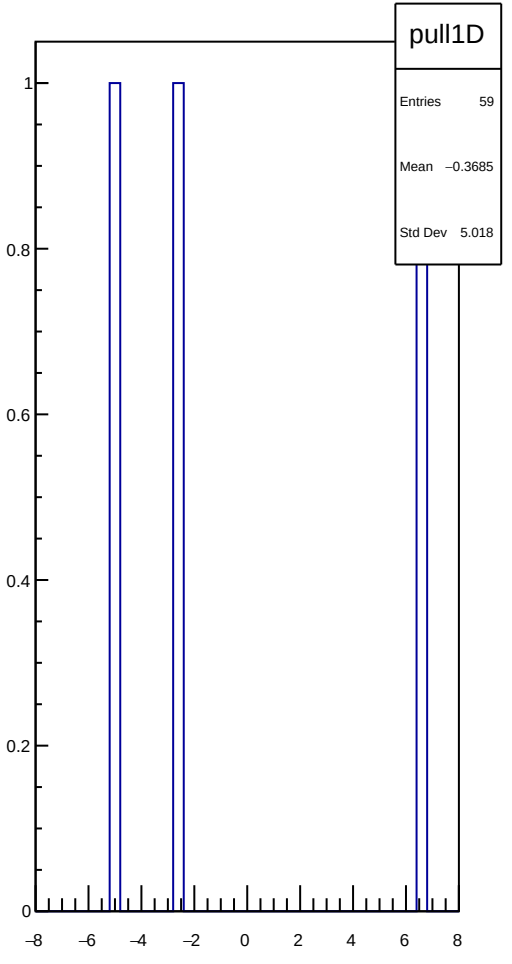

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 3095 / 58
p0 2622 ± 2.419
3000
2800
2600
2400
2200

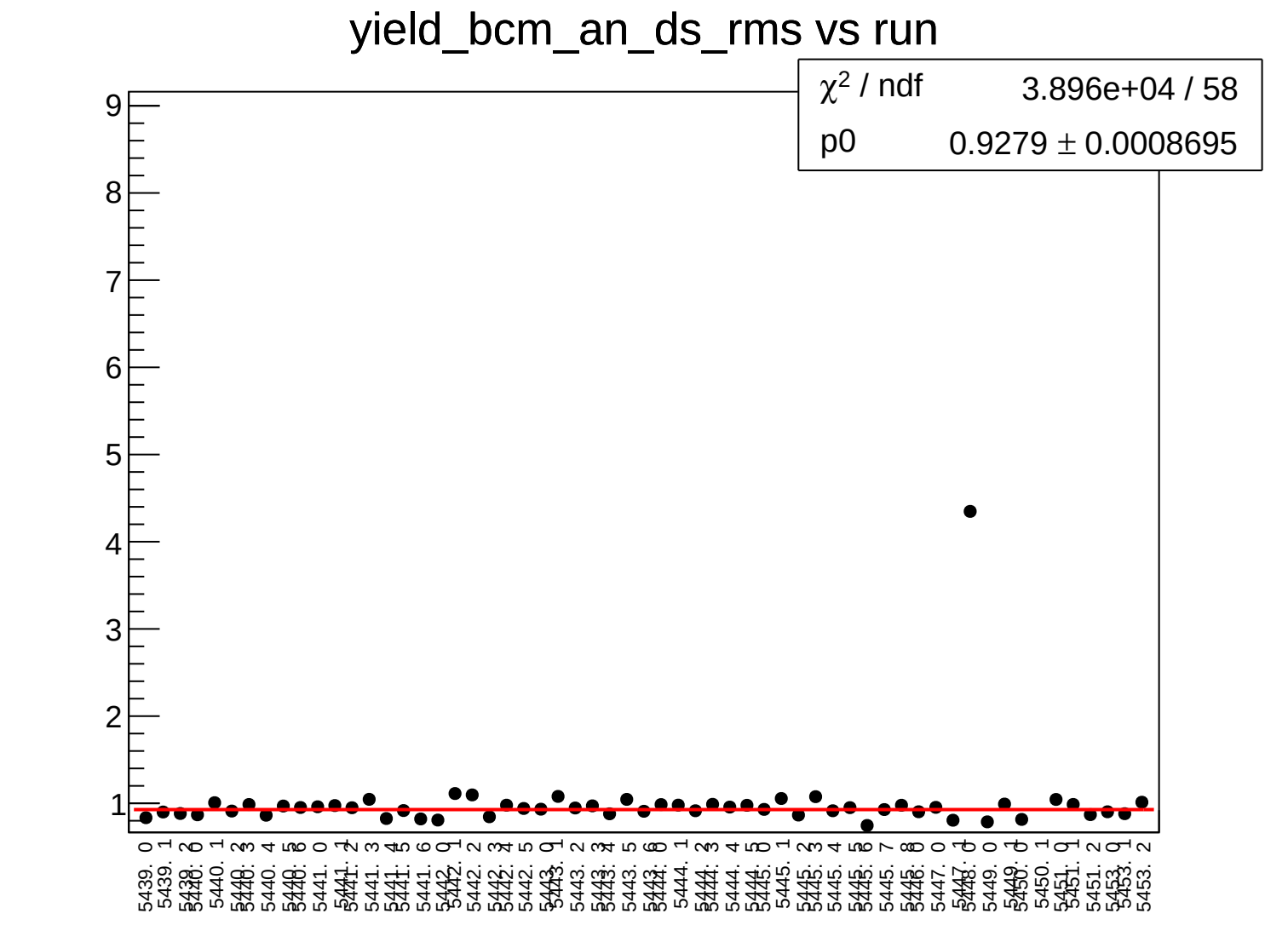

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ^2 / ndf 53.01 / 58
p0 −7982 ± 3401
pull
Entries 59
Mean −34.75
Std Dev 86.27

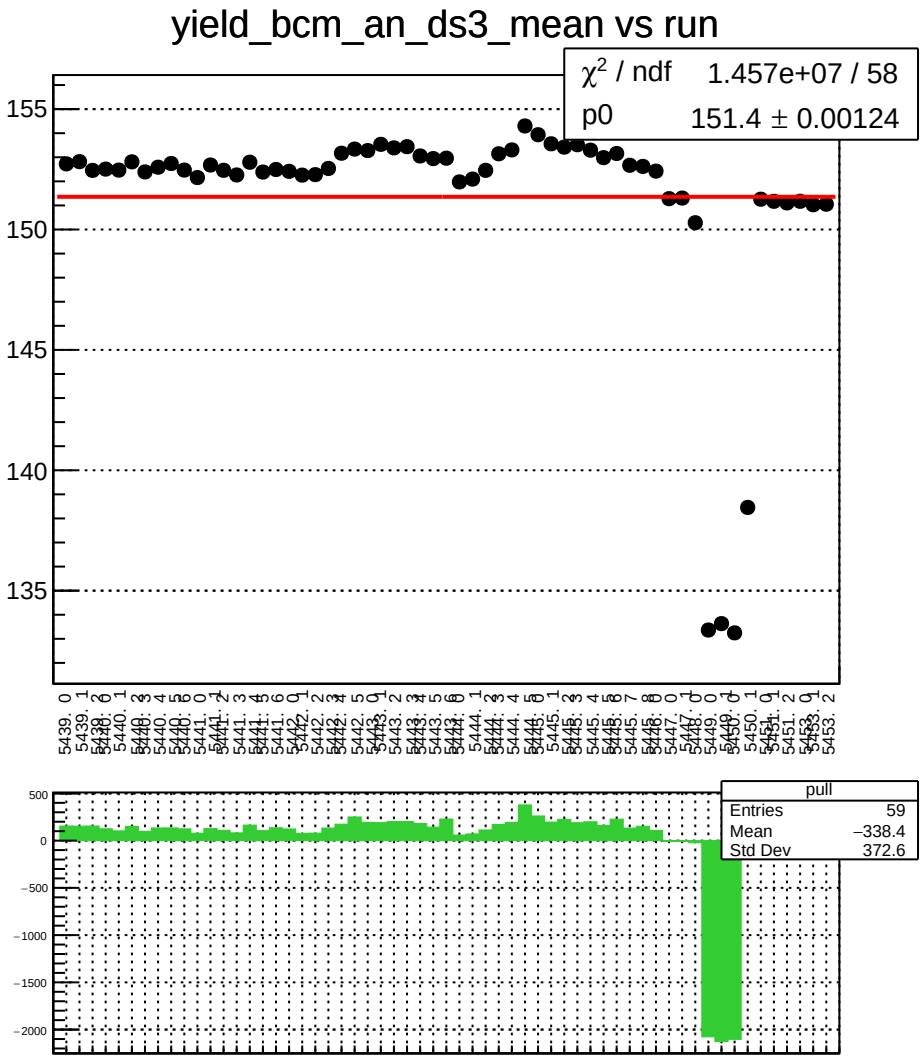

pull1D
Entries 59
Mean −0.01369
Std Dev 0.9478

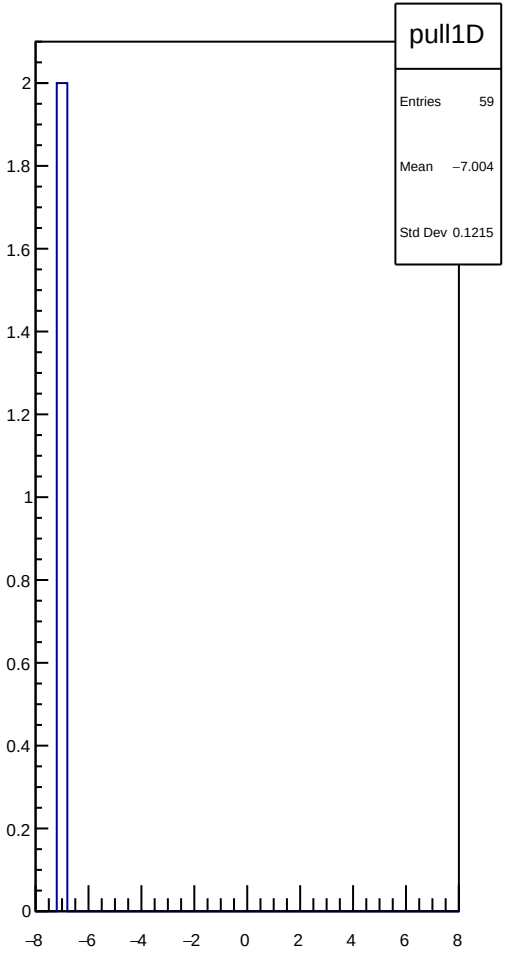

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3012 / 58
p0 2607 ± 2.405
3000
2900
2800
2700
2600
2500
2400
2300
2200
5439. 0
5439. 1
5440. 1
5440. 4
5441. 0
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5442. 2
5442. 3
5442. 4
5442. 5
5443. 2
5443. 3
5443. 4
5443. 5
5444. 1
5444. 3
5444. 4
5445. 1
5445. 2
5445. 3
5445. 4
5445. 7
5447. 0
5449. 0
5450. 1
5451. 1
5451. 2
5453. 2

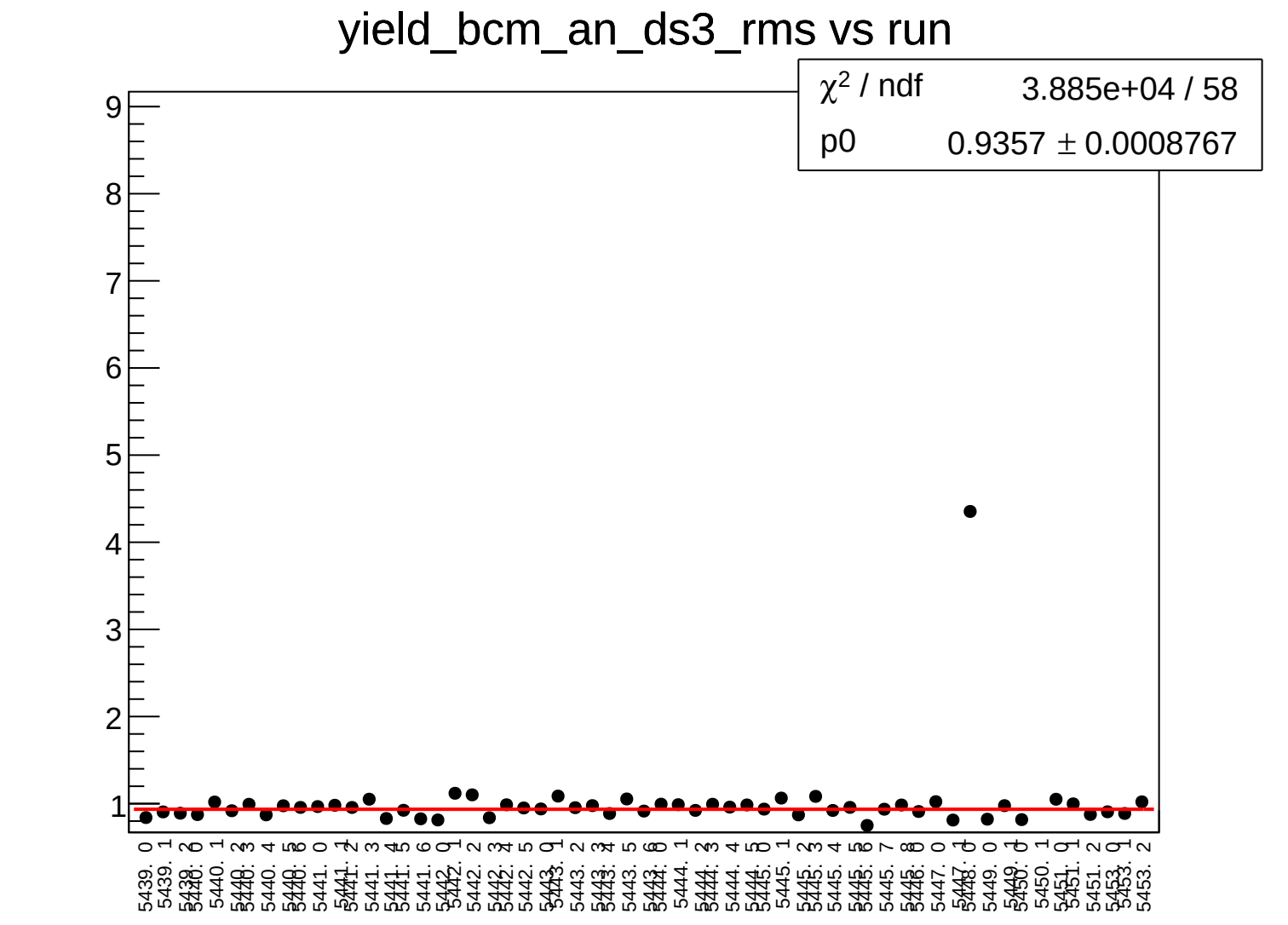

yield_bcm_an_ds_mean vs run
χ² / ndf 1.468e+07 / 58
p0 151 ± 0.00123
155
150
145
140
135
pull
Entries 59
Mean −347.7
Std Dev 380.6
0
−500
−1000
−1500
−2000

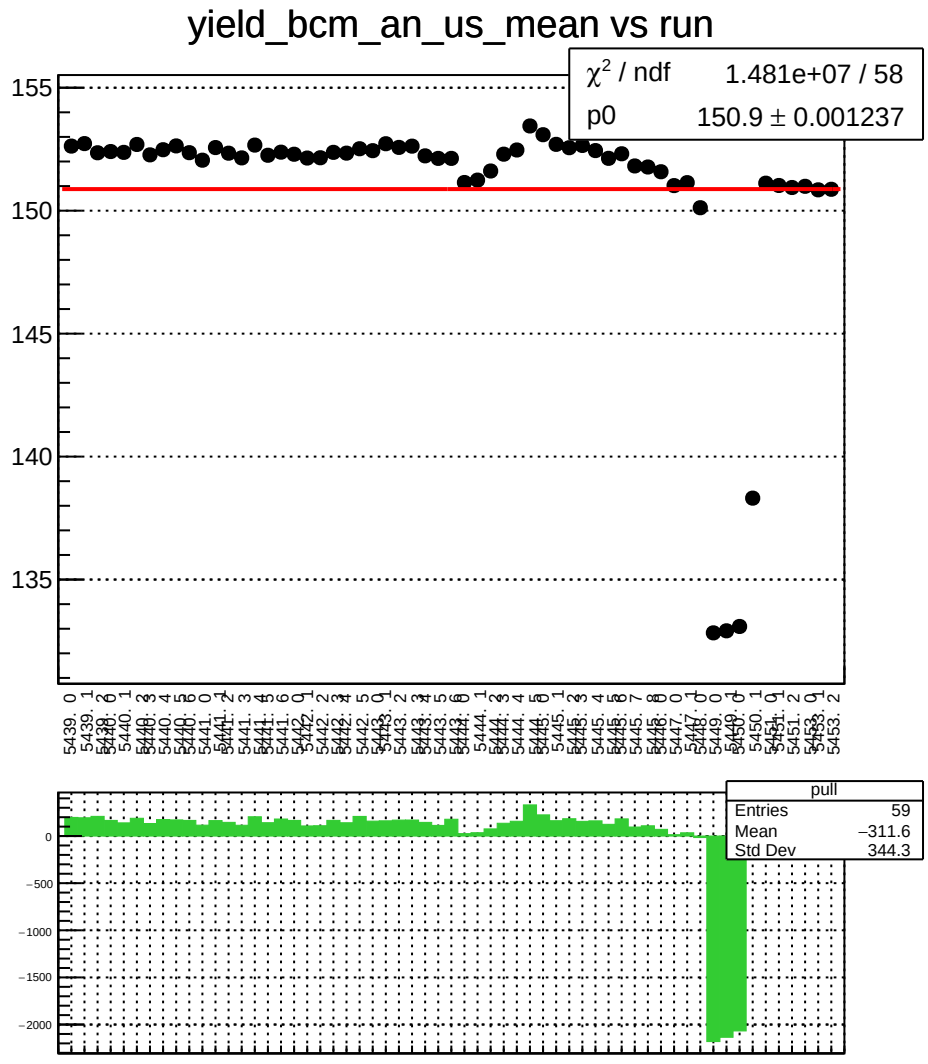

pull1D
Entries 59
Mean −0.3685
Std Dev 5.018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

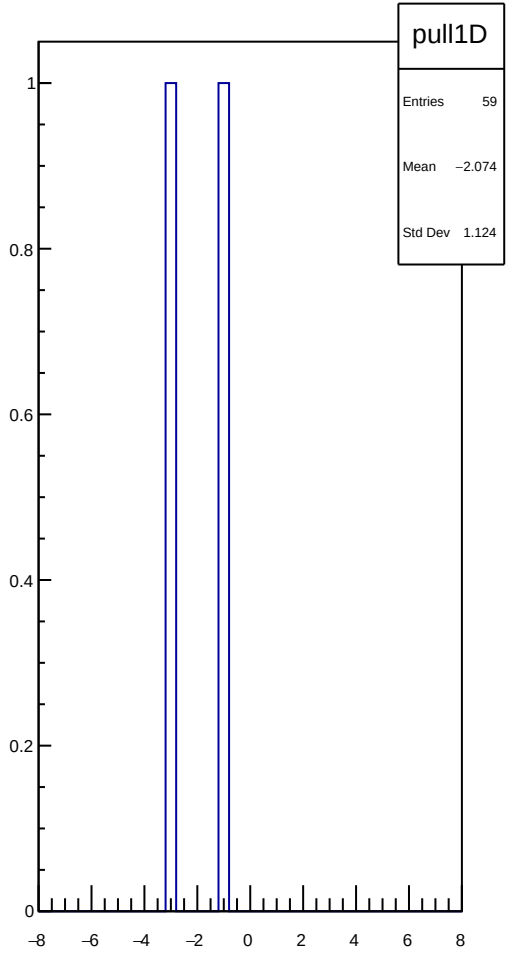

yield_bcm_an_ds_rms vs run
$\chi^2$ / ndf 3.896e+04 / 58
p0 0.9279 ± 0.0008695
9
8
7
6
5
4
3
2
1

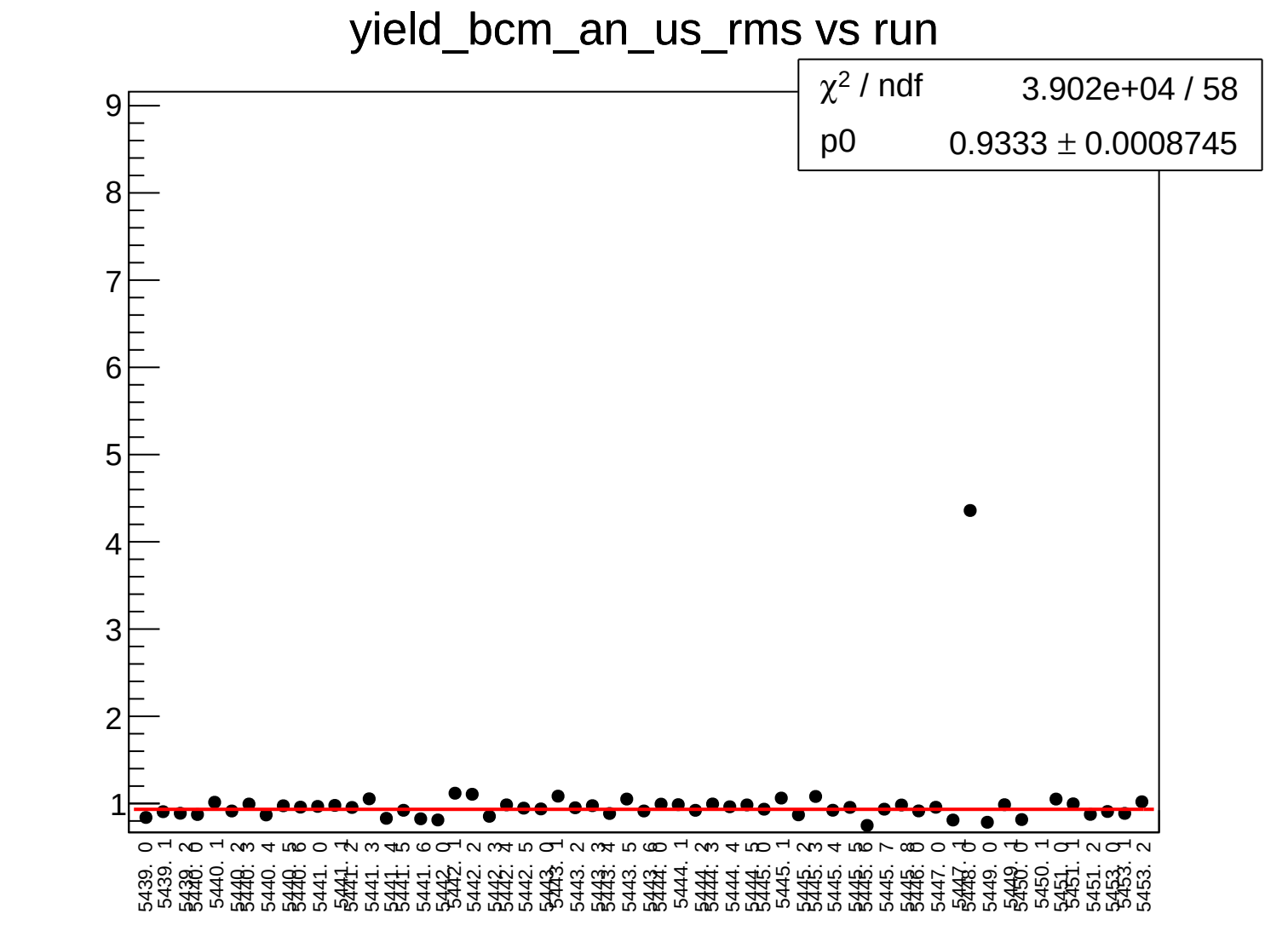

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.457e+07 / 58
p0 151.4 ± 0.00124
155
150
145
140
135
pull
Entries 59
Mean −338.4
Std Dev 372.6
500
0
−500
−1000
−1500
−2000

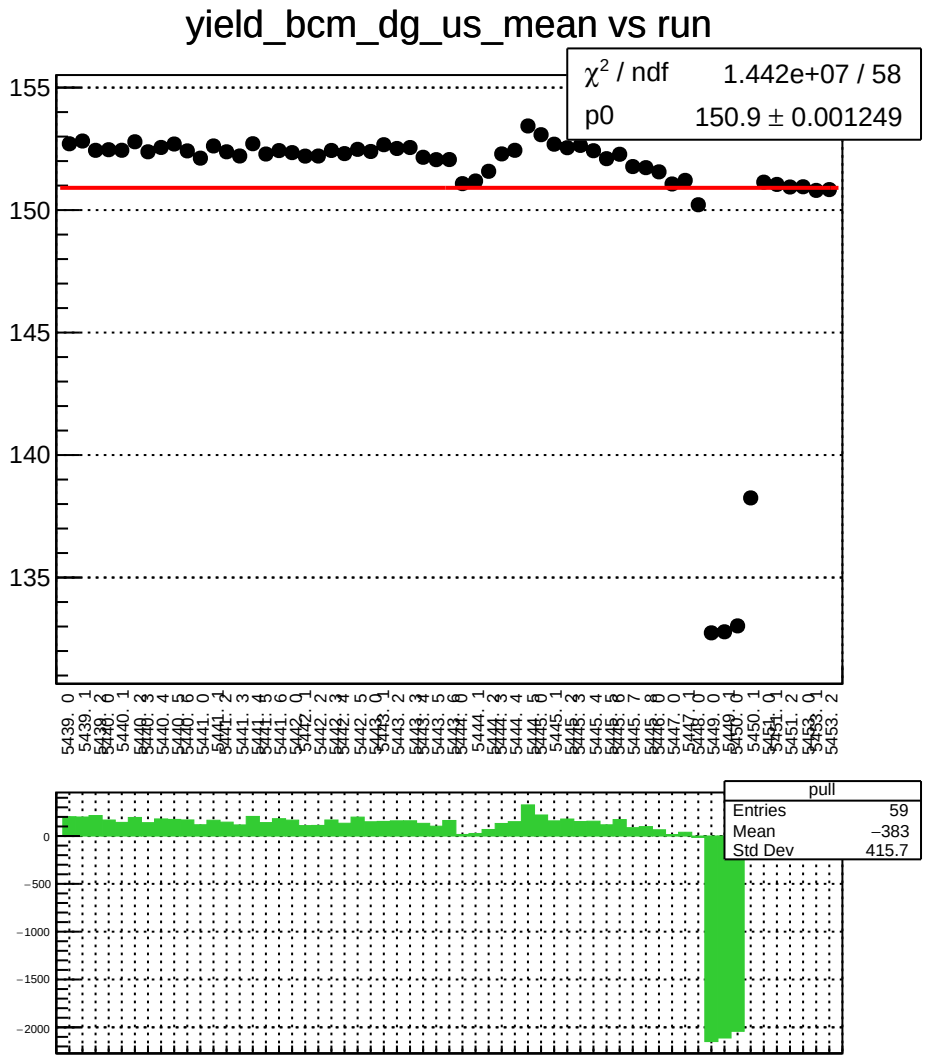

pull1D
Entries 59
Mean −7.004
Std Dev 0.1215
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

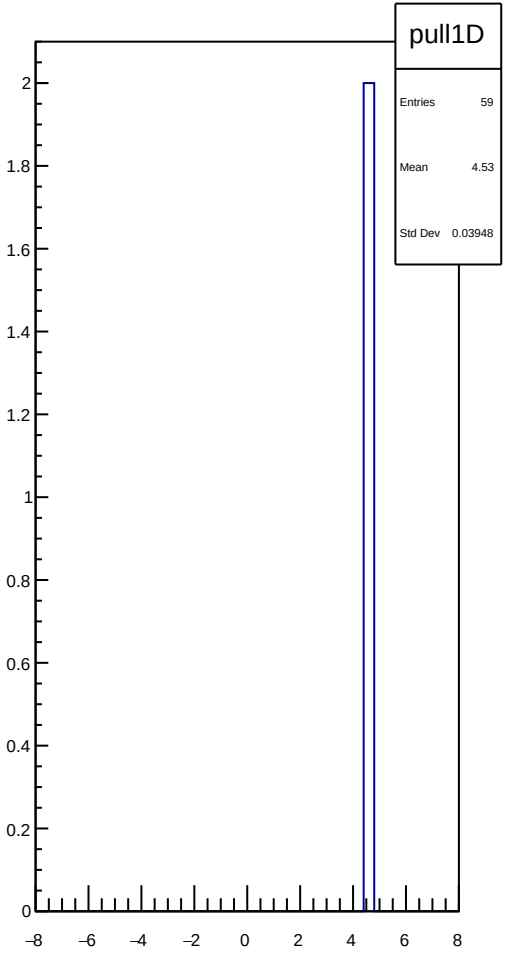

yield_bcm_an_ds3_rms vs run
$\chi^2$ / ndf 3.885e+04 / 58
p0 0.9357 ± 0.0008767
9
8
7
6
5
4
3
2
1

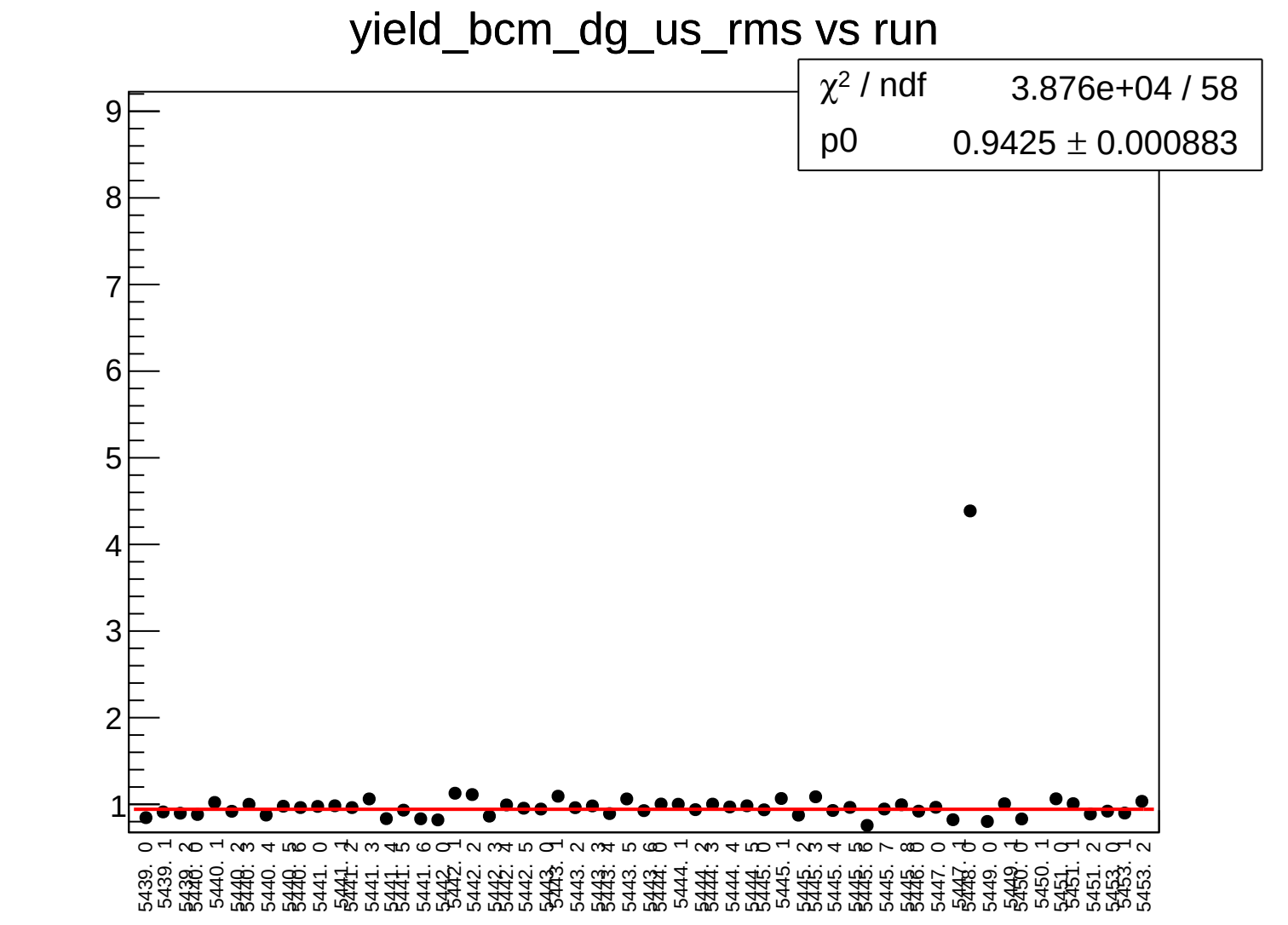

yield_bcm_an_us_mean vs run
χ² / ndf 1.481e+07 / 58
p0 150.9 ± 0.001237
155
150
145
140
135
pull
Entries 59
Mean −311.6
Std Dev 344.3
0
−500
−1000
−1500
−2000

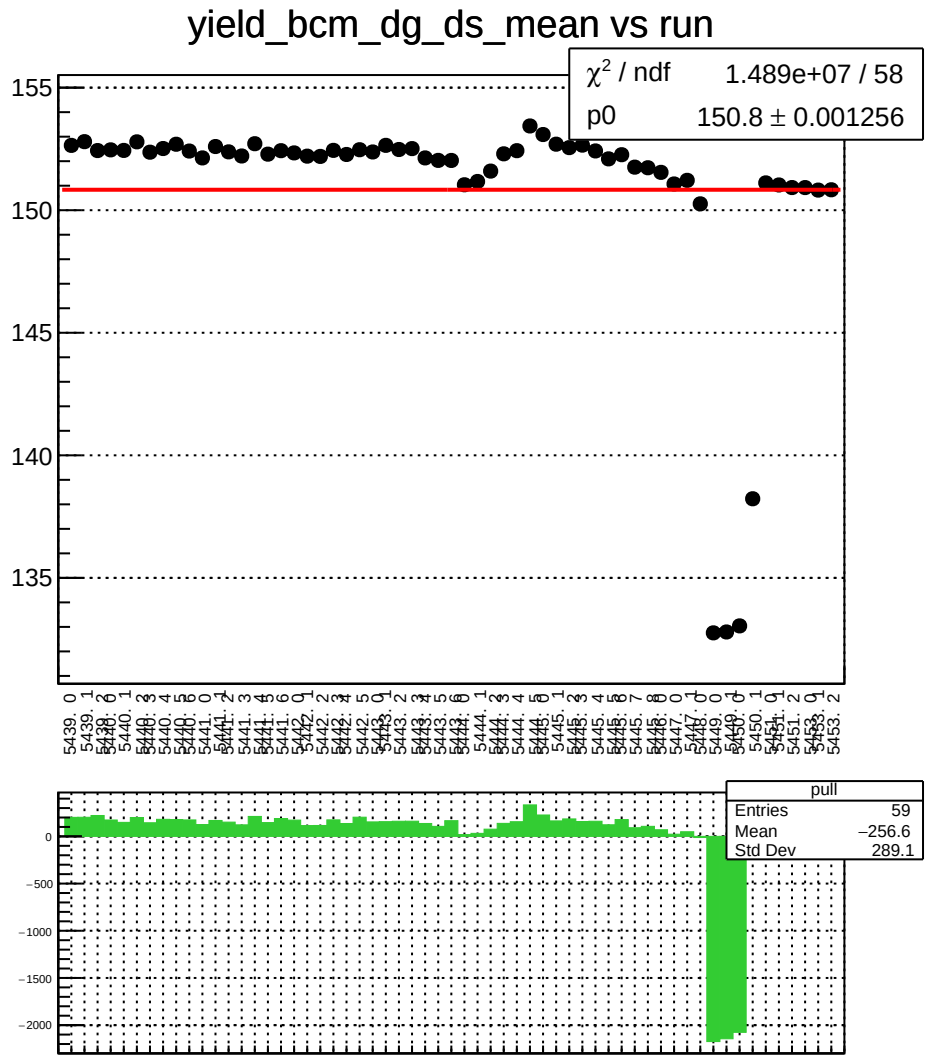

pull1D
Entries 59
Mean −2.074
Std Dev 1.124
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

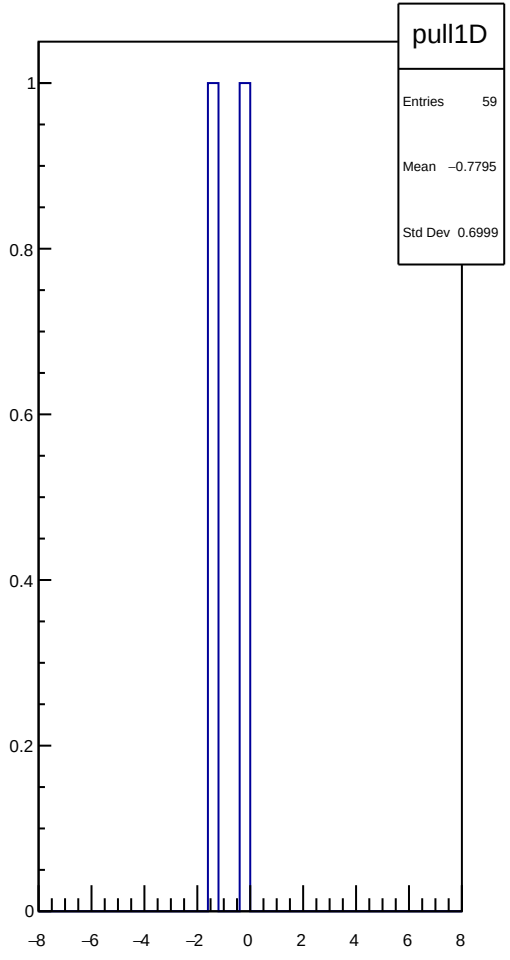

yield_bcm_an_us_rms vs run
χ2 / ndf 3.902e+04 / 58
p0 0.9333 ± 0.0008745
9
8
7
6
5
4
3
2
1

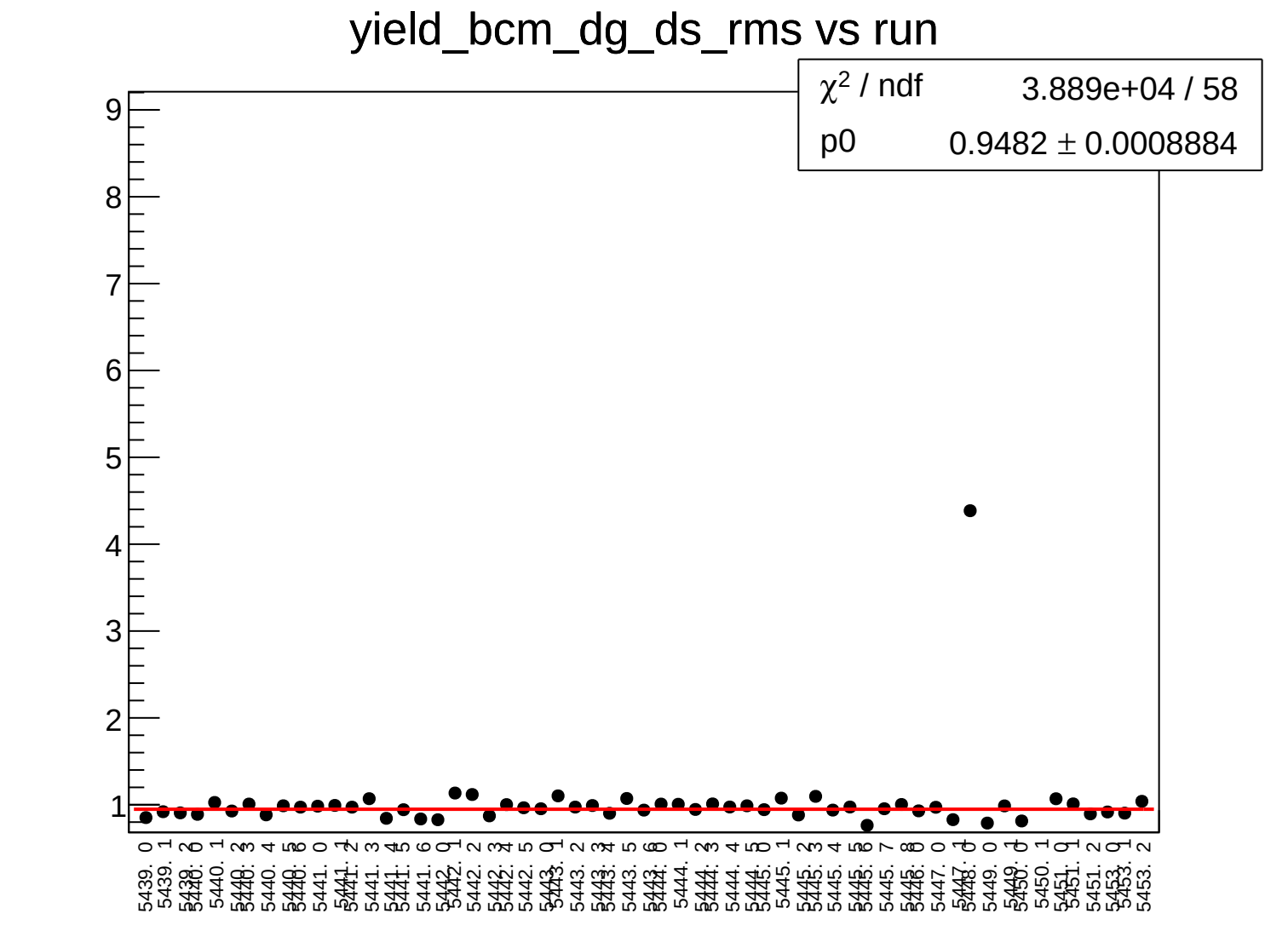

yield_bcm_dg_us_mean vs run
χ² / ndf 1.442e+07 / 58
p0 150.9 ± 0.001249
155
150
145
140
135
pull
Entries 59
Mean −383
Std Dev 415.7
0
−500
−1000
−1500
−2000

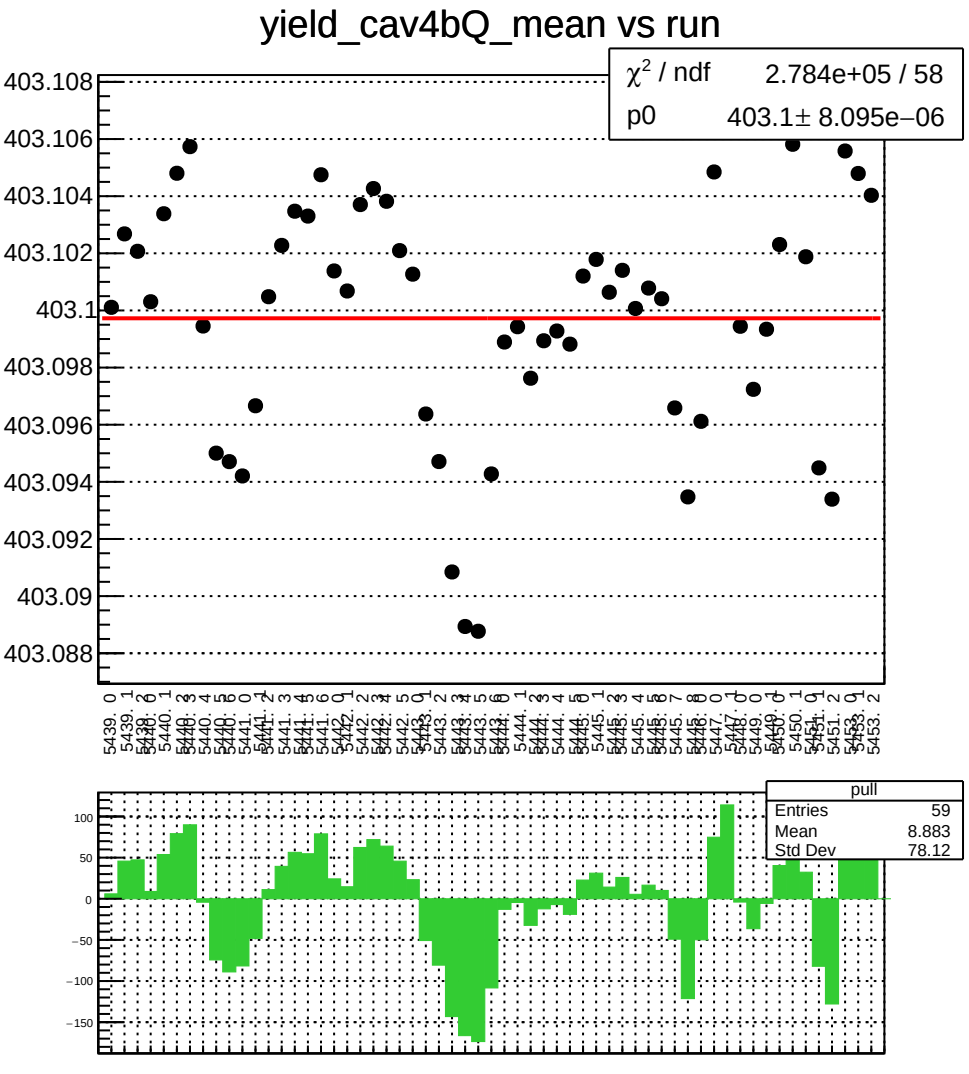

pull1D
Entries 59
Mean 4.53
Std Dev 0.03948
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

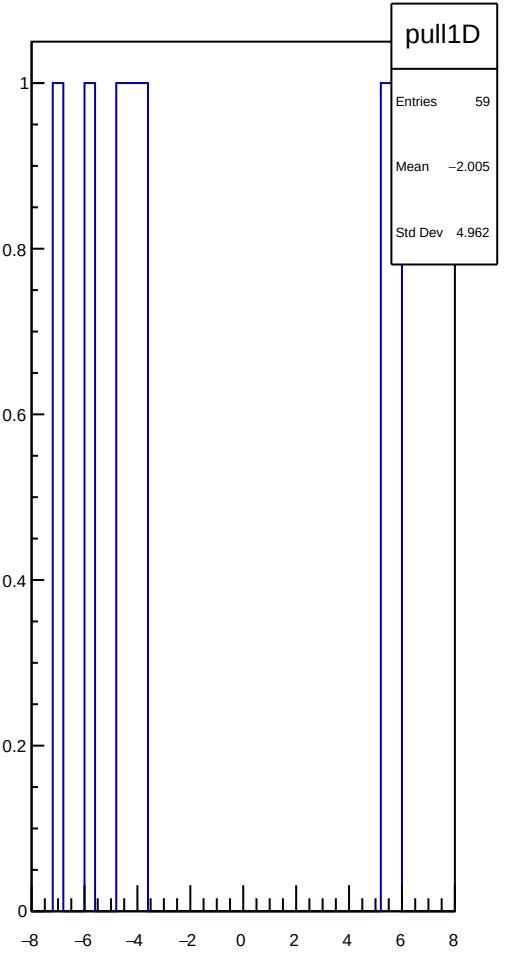

yield_bcm_dg_us_rms vs run
χ² / ndf 3.876e+04 / 58
p0 0.9425 ± 0.000883
9
8
7
6
5
4
3
2
1

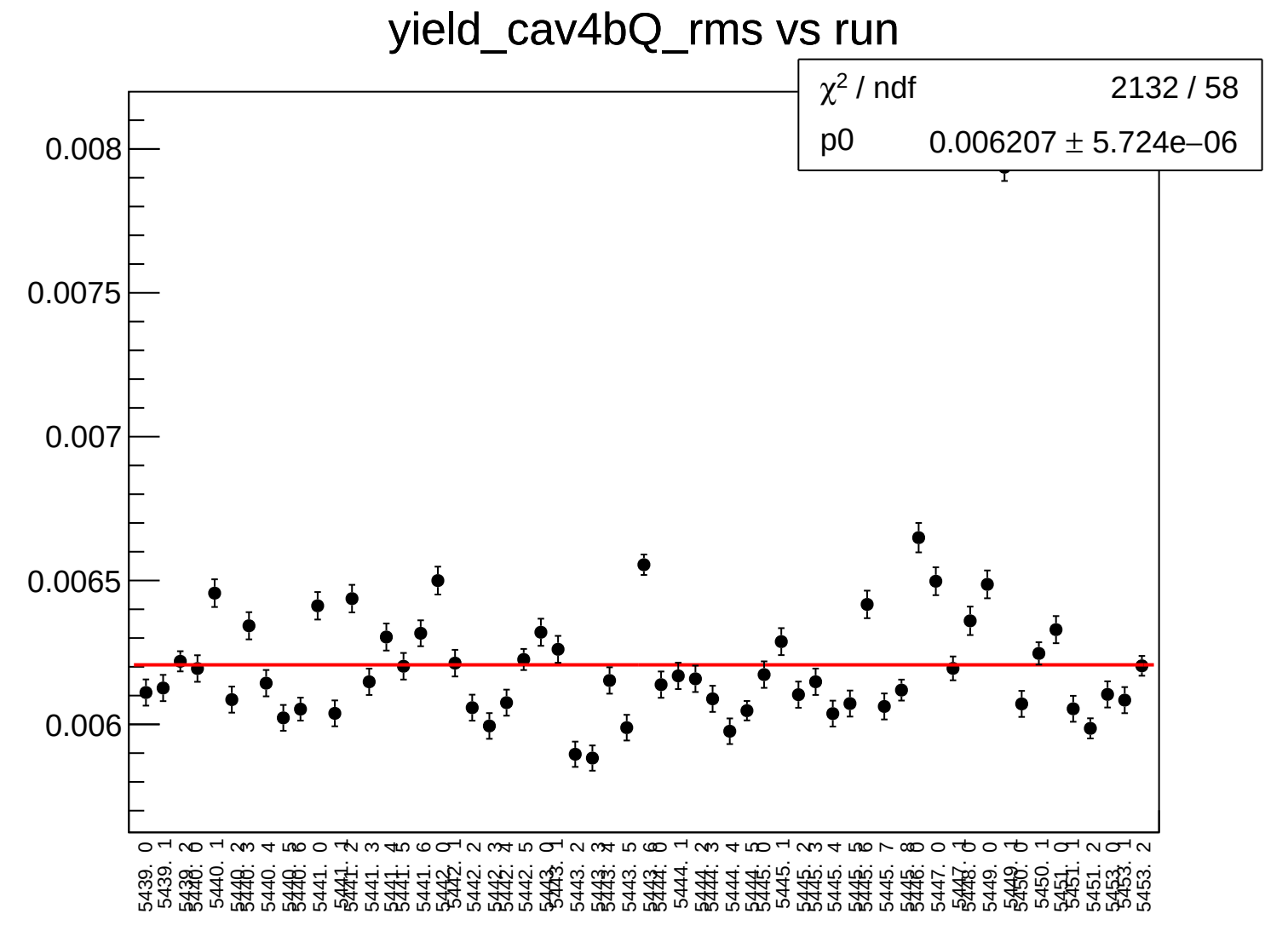

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.489e+07 / 58
p0 150.8 ± 0.001256
155
150
145
140
135
pull
Entries 59
Mean −256.6
Std Dev 289.1
0
−500
−1000
−1500
−2000

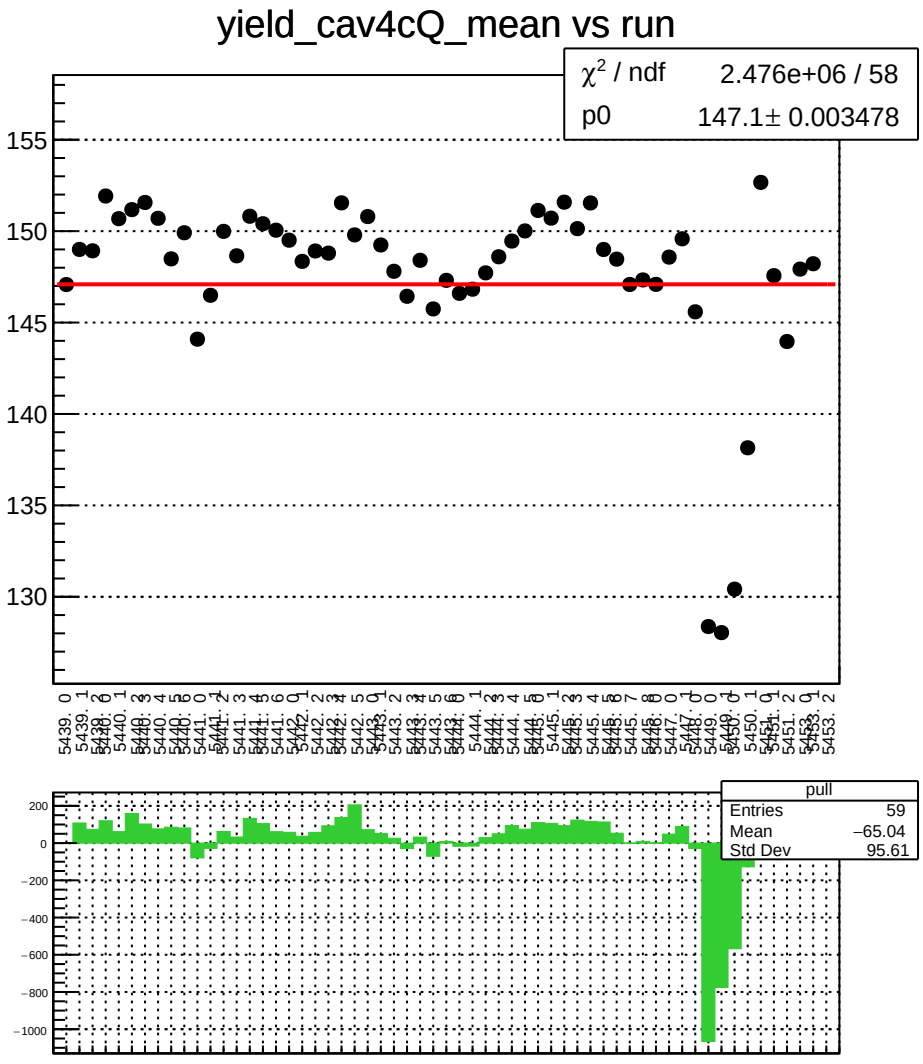

pull1D
Entries 59
Mean −0.7795
Std Dev 0.6999
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

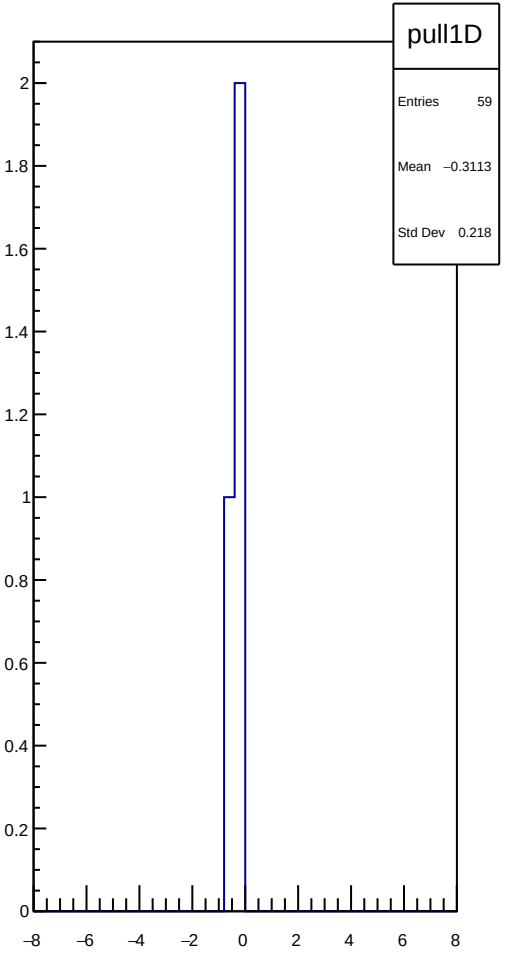

yield_bcm_dg_ds_rms vs run
χ² / ndf 3.889e+04 / 58
p0 0.9482 ± 0.0008884
9
8
7
6
5
4
3
2
1

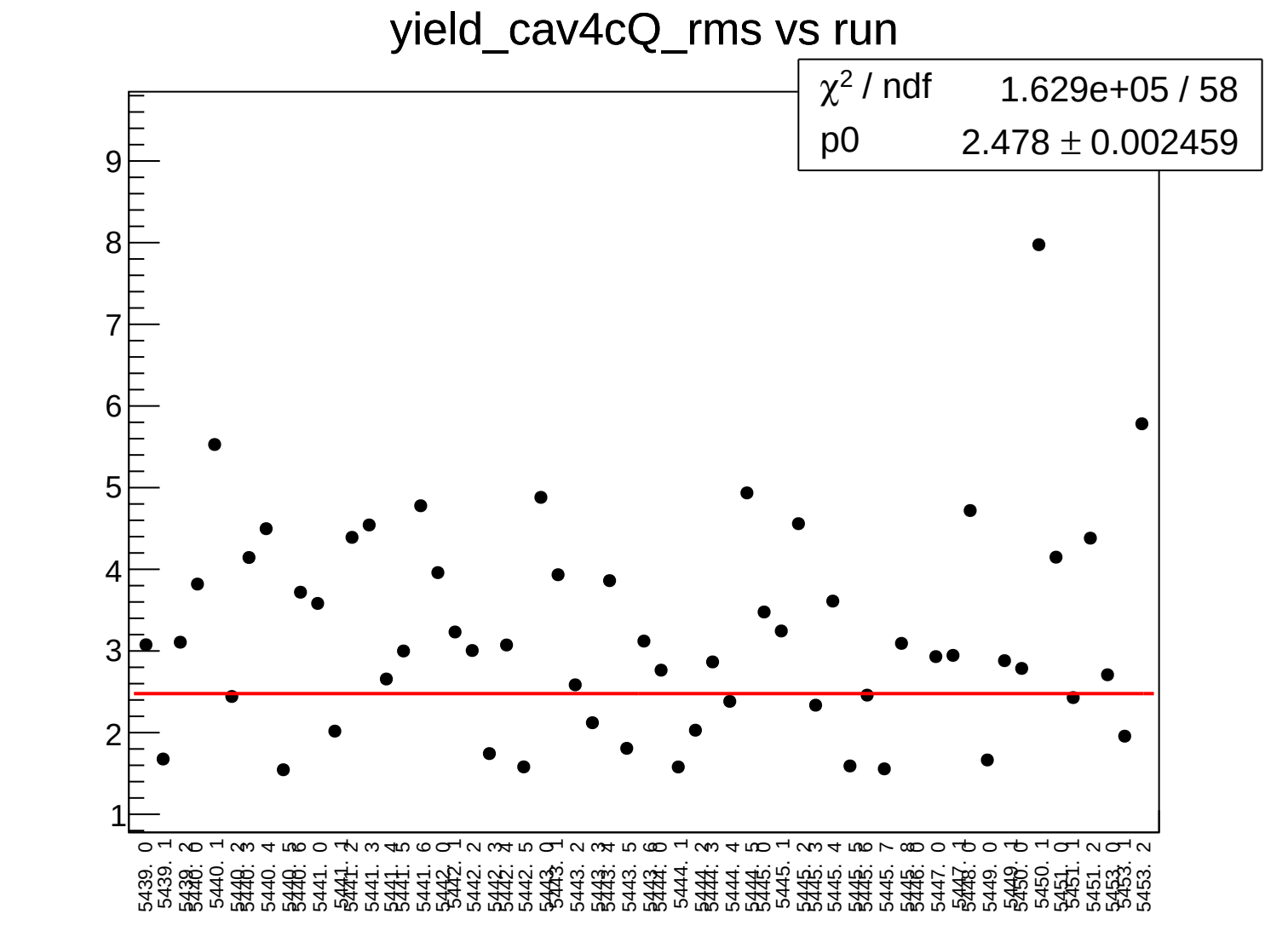

yield_cav4bQ_mean vs run
χ² / ndf 2.784e+05 / 58
p0 403.1± 8.095e−06
403.108
403.106
403.104
403.102
403.1
403.098
403.096
403.094
403.092
403.09
403.088
pull
Entries 59
Mean 8.883
Std Dev 78.12
100
50
0
−50
−100
−150

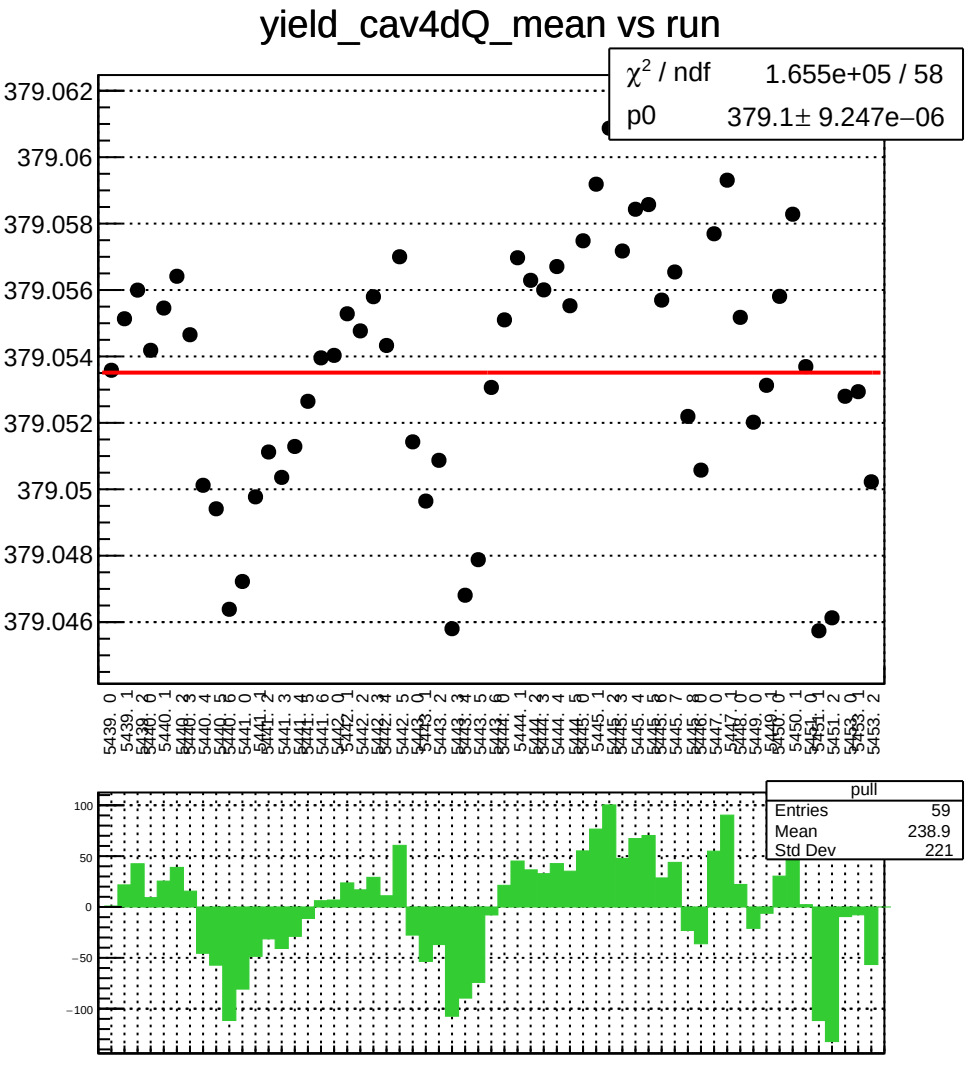

pull1D
Entries 59
Mean −2.005
Std Dev 4.962
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

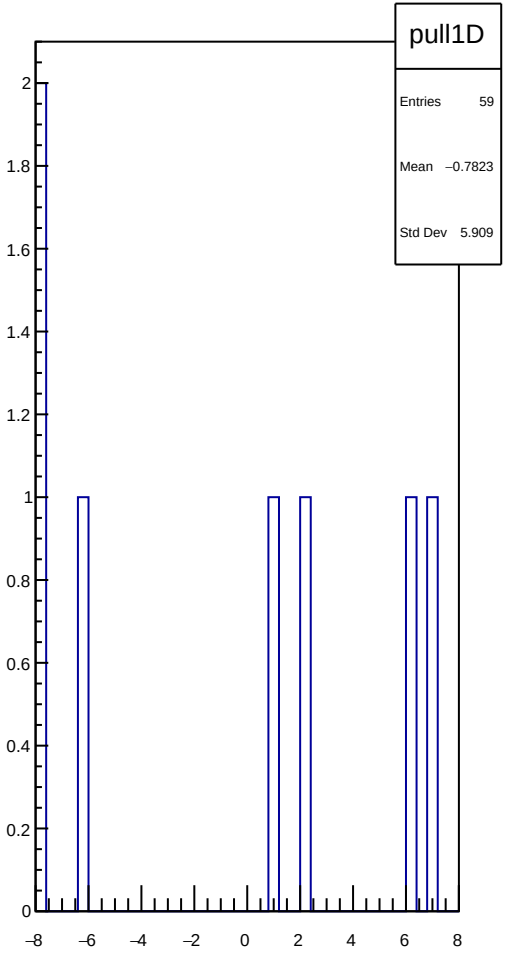

yield_cav4bQ_rms vs run
χ² / ndf 2132 / 58
p0 0.006207 ± 5.724e−06
0.008
0.0075
0.007
0.0065
0.006

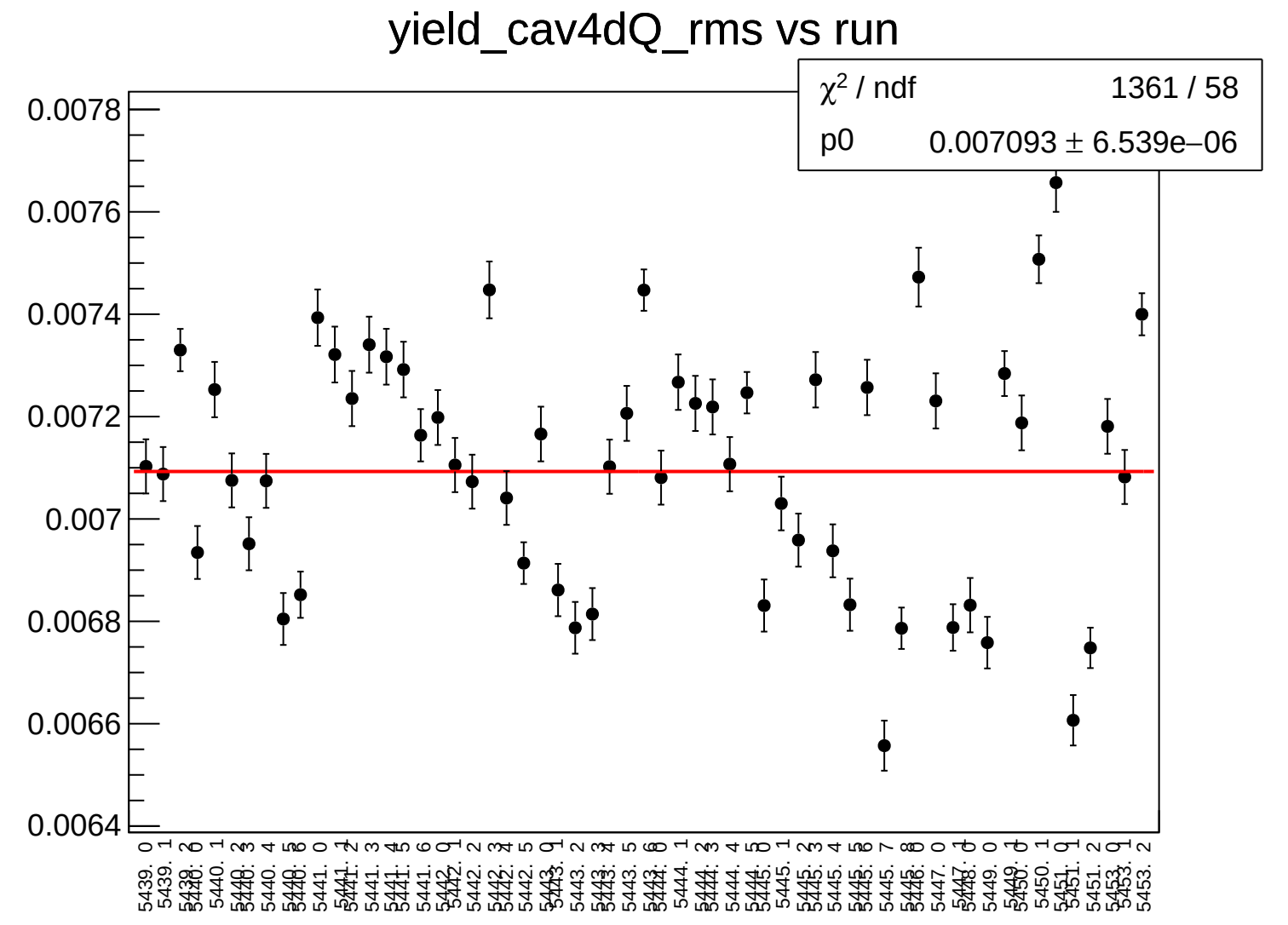

yield_cav4cQ_mean vs run
χ² / ndf 2.476e+06 / 58
p0 147.1± 0.003478
155
150
145
140
135
130
pull
Entries 59
Mean −65.04
Std Dev 95.61
200
0
−200
−400
−600
−800
−1000

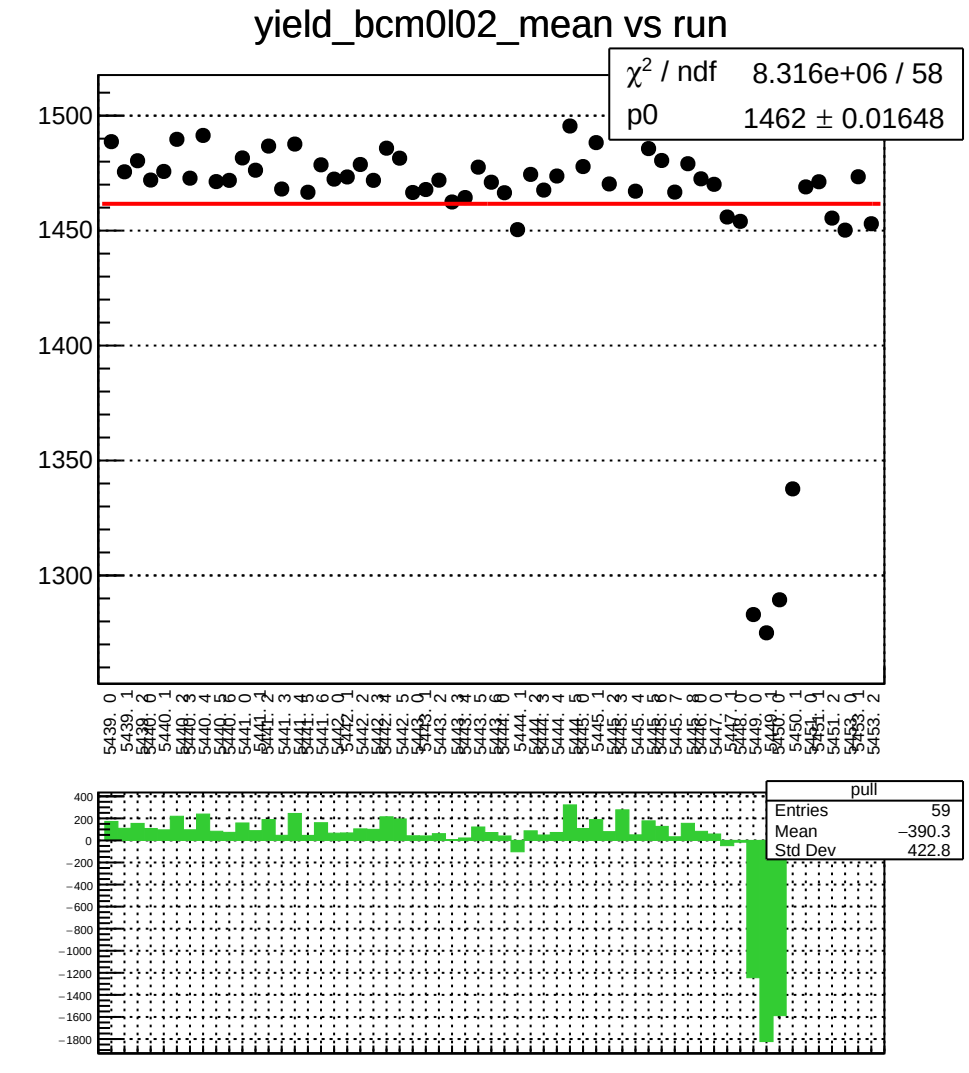

pull1D
Entries 59
Mean −0.3113
Std Dev 0.218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

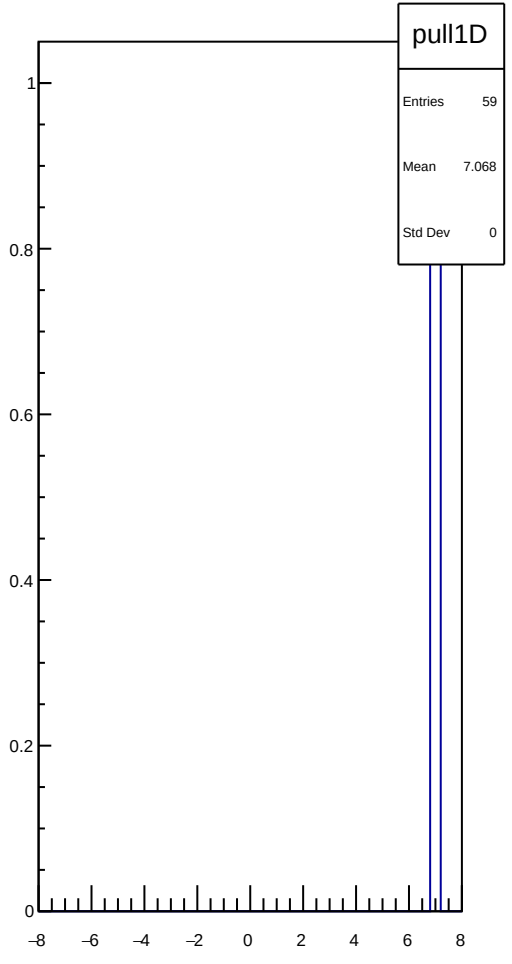

yield_cav4cQ_rms vs run
$\chi^2$ / ndf 1.629e+05 / 58
p0 2.478 ± 0.002459
9
8
7
6
5
4
3
2
1

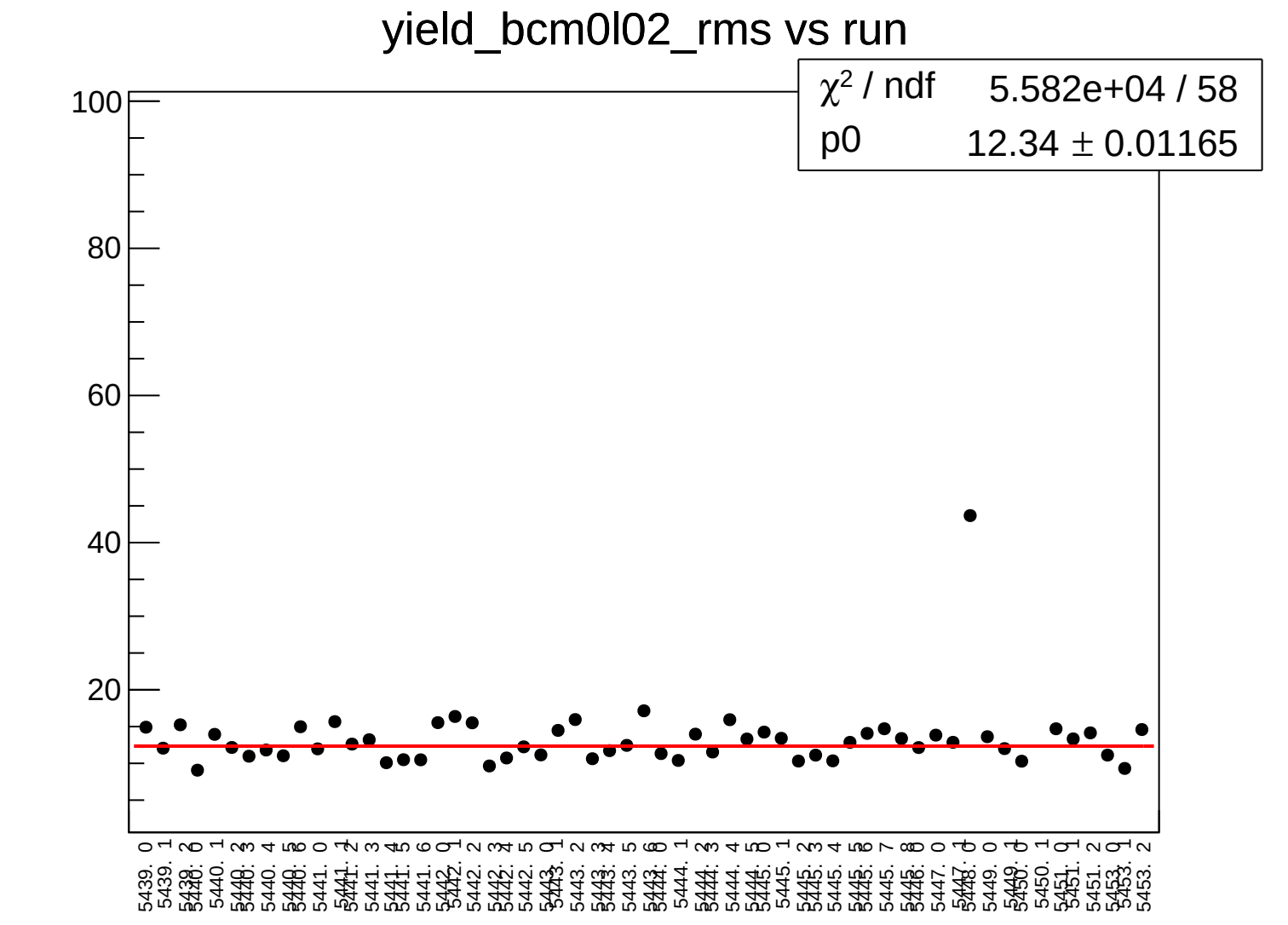

yield_cav4dQ_mean vs run
χ² / ndf 1.655e+05 / 58
p0 379.1± 9.247e−06
379.062
379.06
379.058
379.056
379.054
379.052
379.05
379.048
379.046
pull
Entries 59
Mean 238.9
Std Dev 221
100
50
0
−50
−100

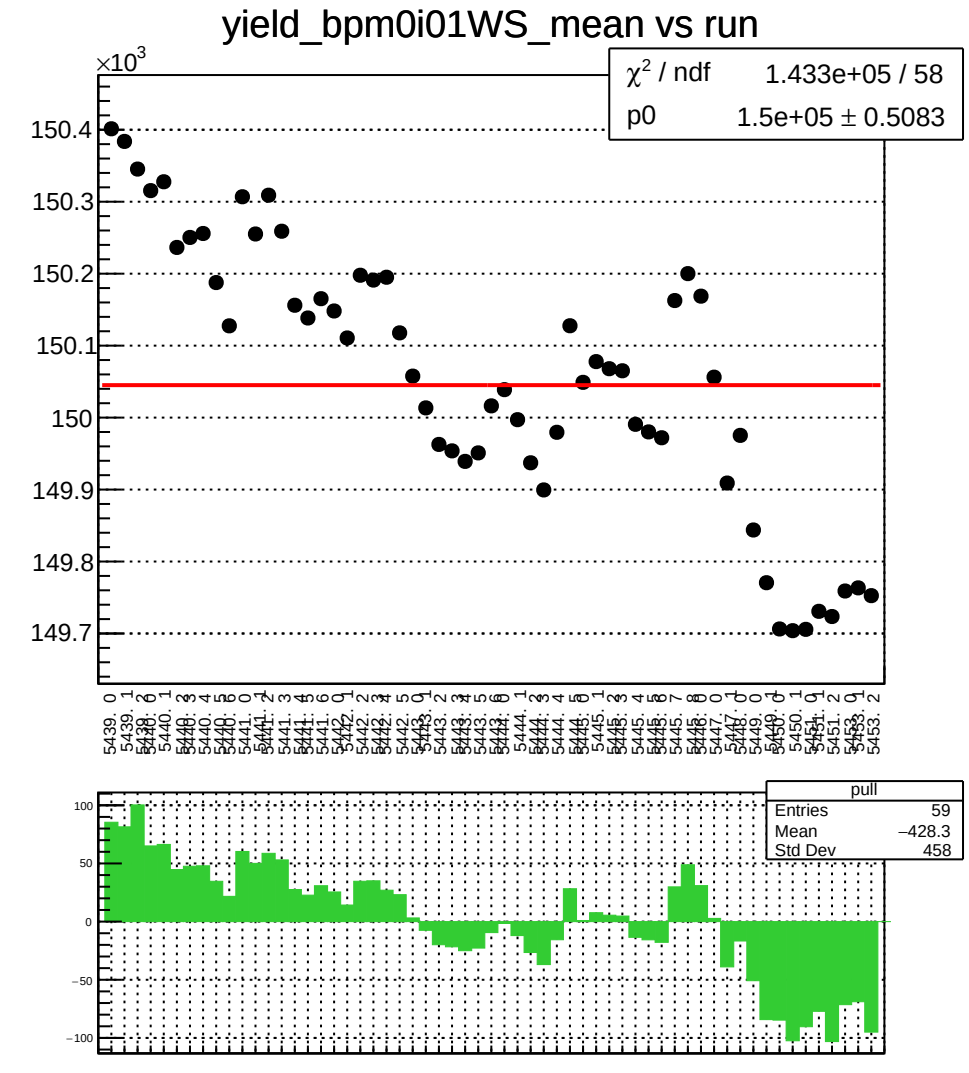

pull1D
Entries 59
Mean −0.7823
Std Dev 5.909
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

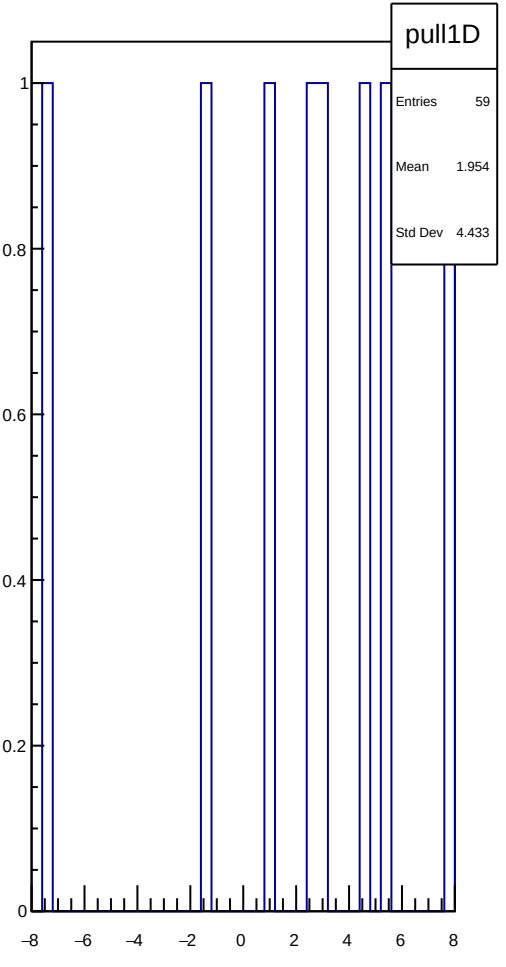

yield_cav4dQ_rms vs run
χ² / ndf 1361 / 58
p0 0.007093 ± 6.539e−06
0.0078
0.0076
0.0074
0.0072
0.007
0.0068
0.0066
0.0064

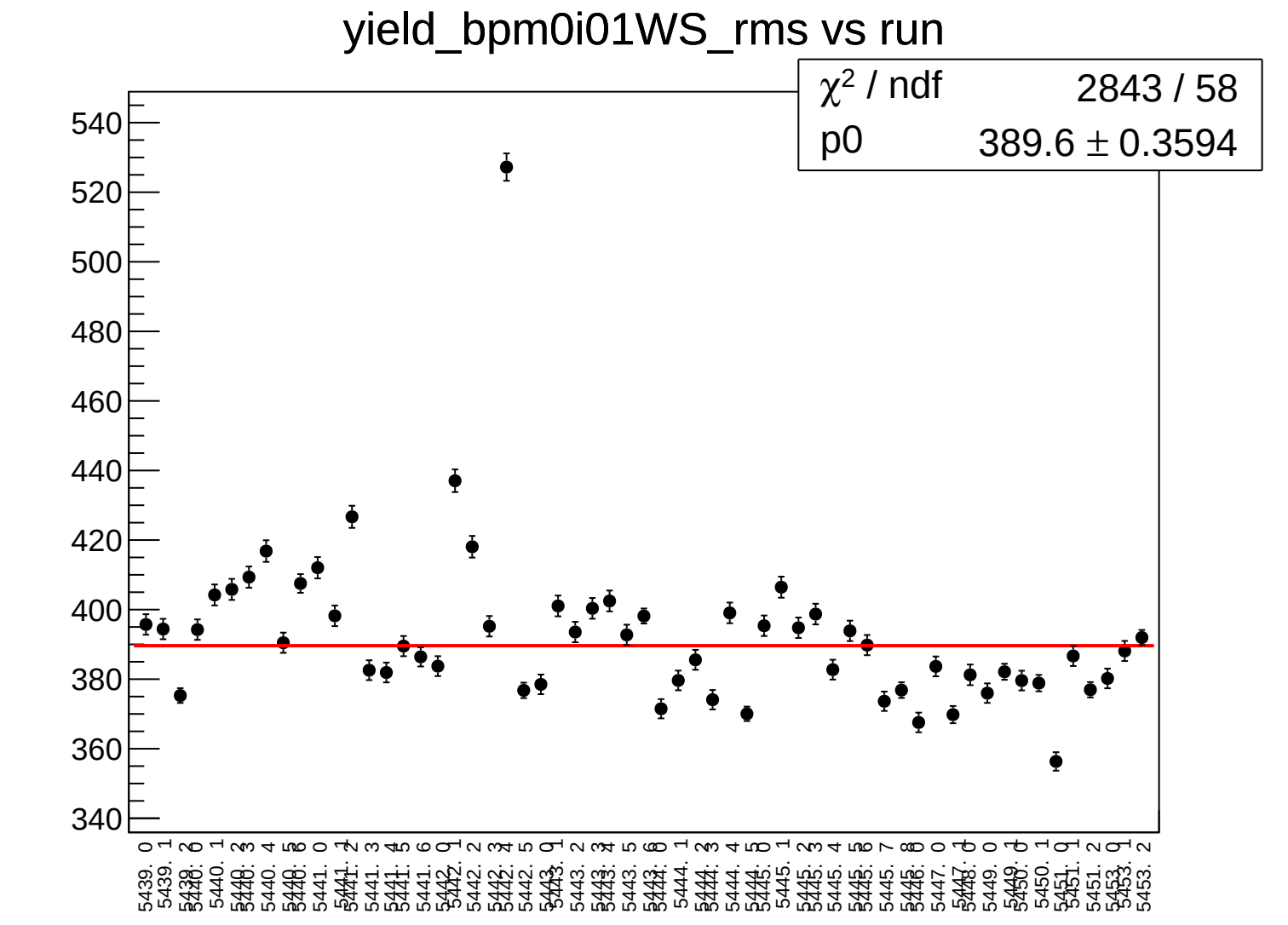

yield_bcm0l02_mean vs run
χ² / ndf 8.316e+06 / 58
p0 1462 ± 0.01648
1500
1450
1400
1350
1300
pull
Entries 59
Mean −390.3
Std Dev 422.8
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600
−1800

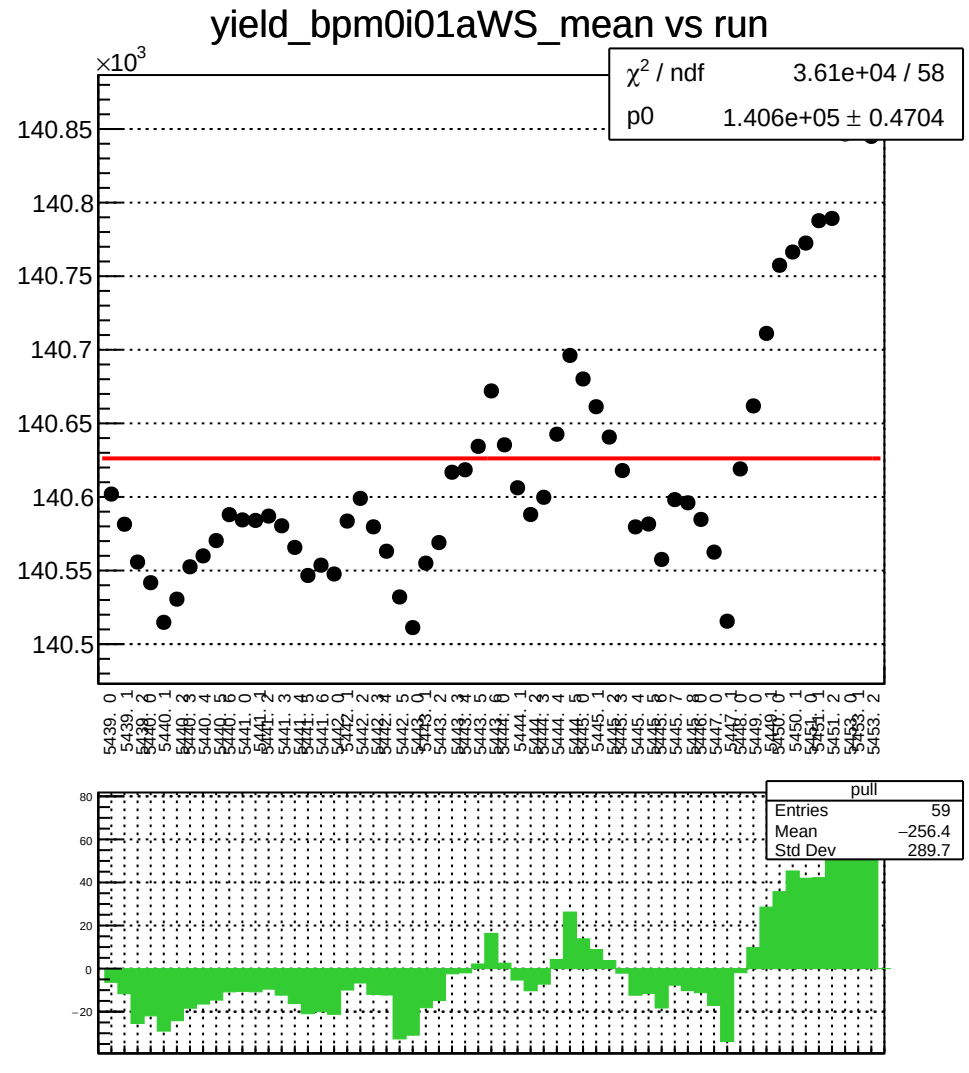

pull1D
Entries 59
Mean 7.068
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

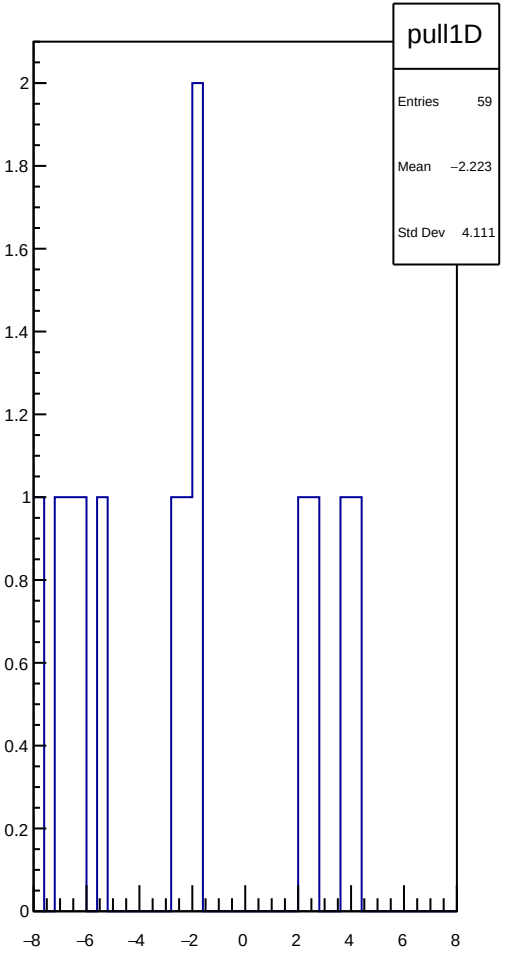

yield_bcm0l02_rms vs run
χ² / ndf 5.582e+04 / 58
p0 12.34 ± 0.01165
100
80
60
40
20

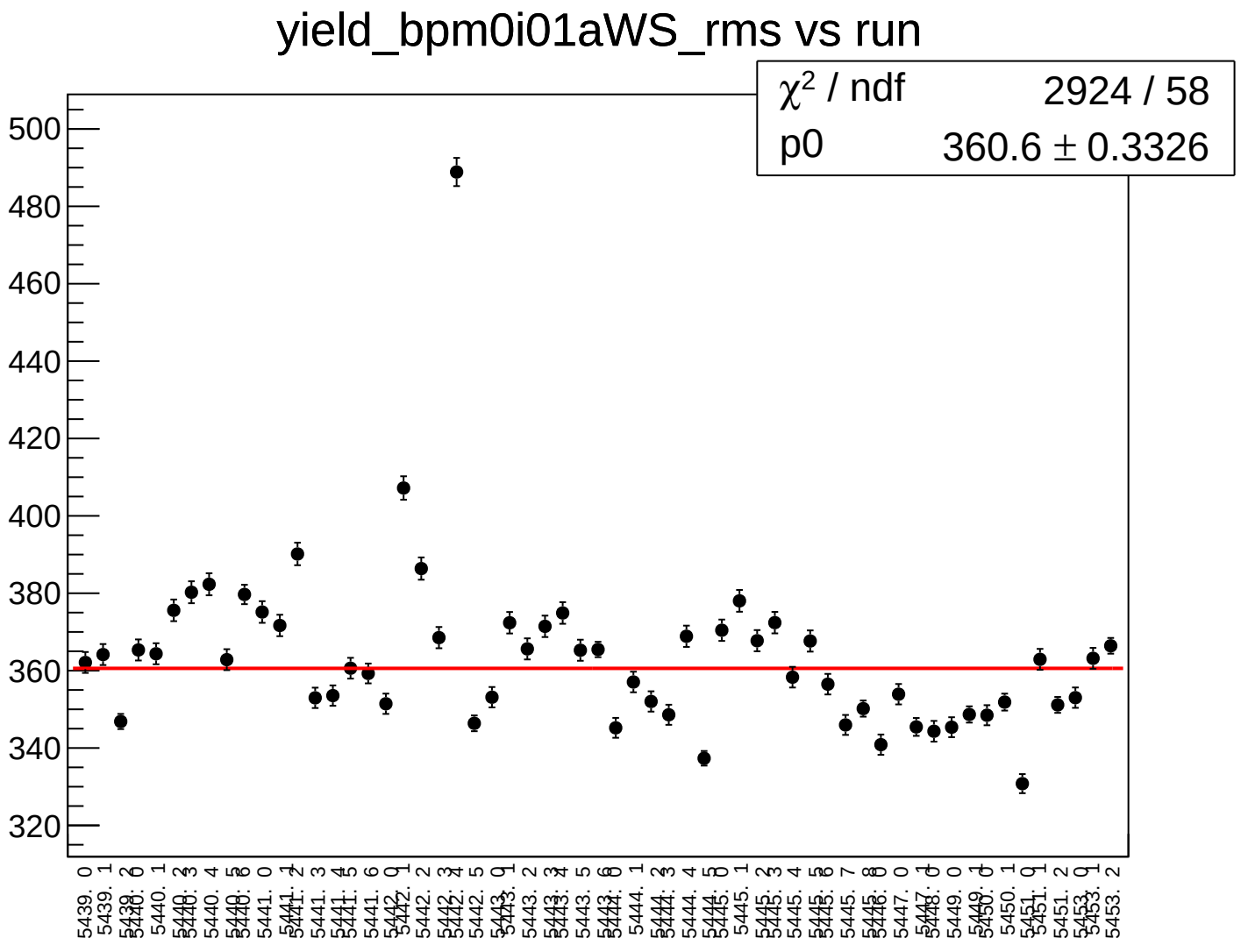

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 1.433e+05 / 58
p0 1.5e+05 ± 0.5083
150.4
150.3
150.2
150.1
150
149.9
149.8
149.7
pull
Entries 59
Mean −428.3
Std Dev 458
100
50
0
−50
−100

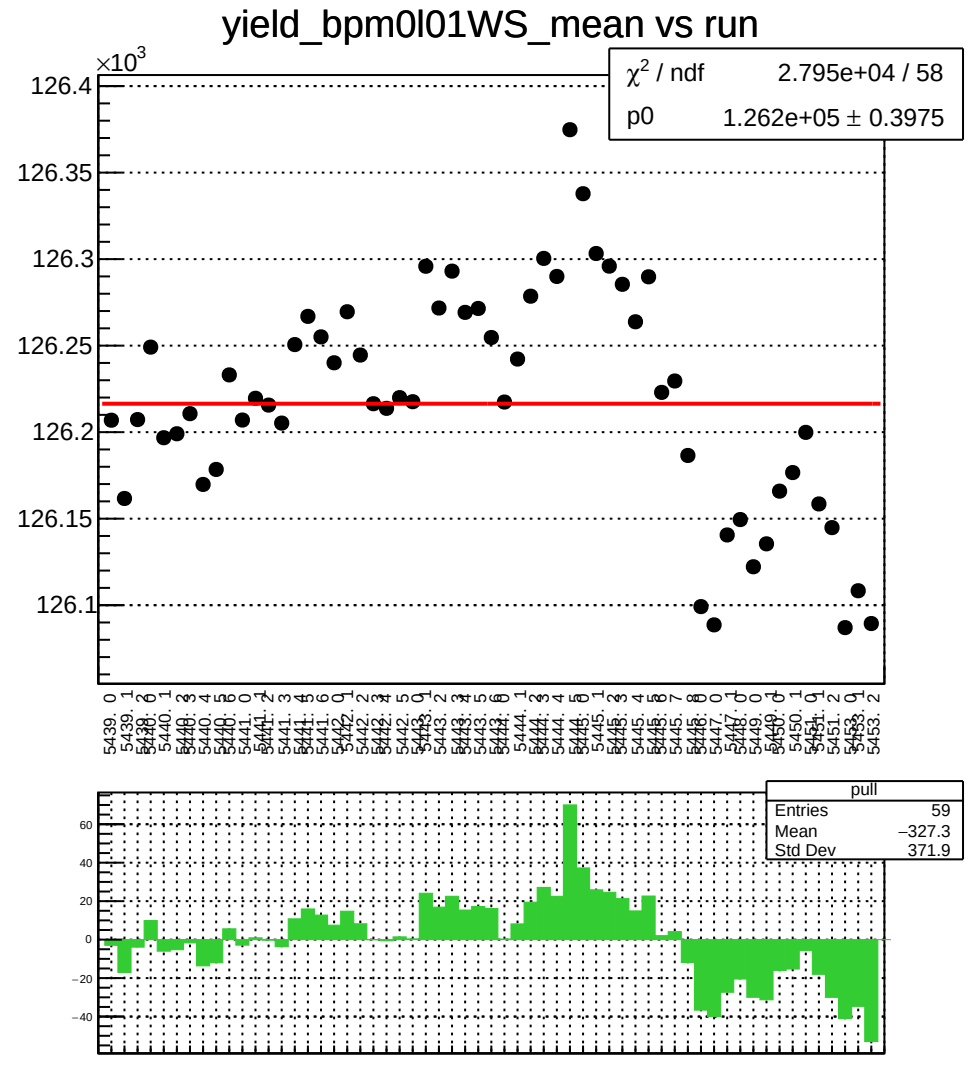

pull1D
Entries 59
Mean 1.954
Std Dev 4.433
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

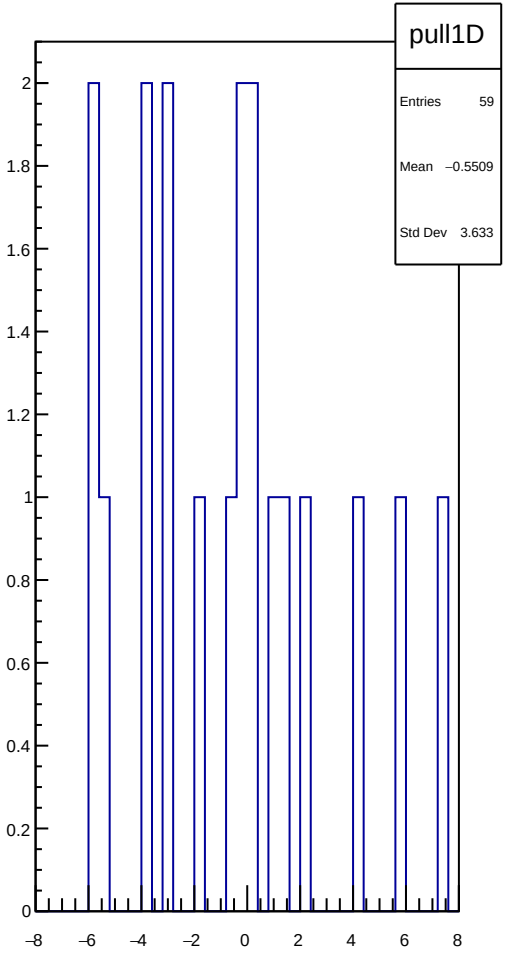

yield_bpm0i01WS_rms vs run
χ² / ndf 2843 / 58
p0 389.6 ± 0.3594
540
520
500
480
460
440
420
400
380
360
340

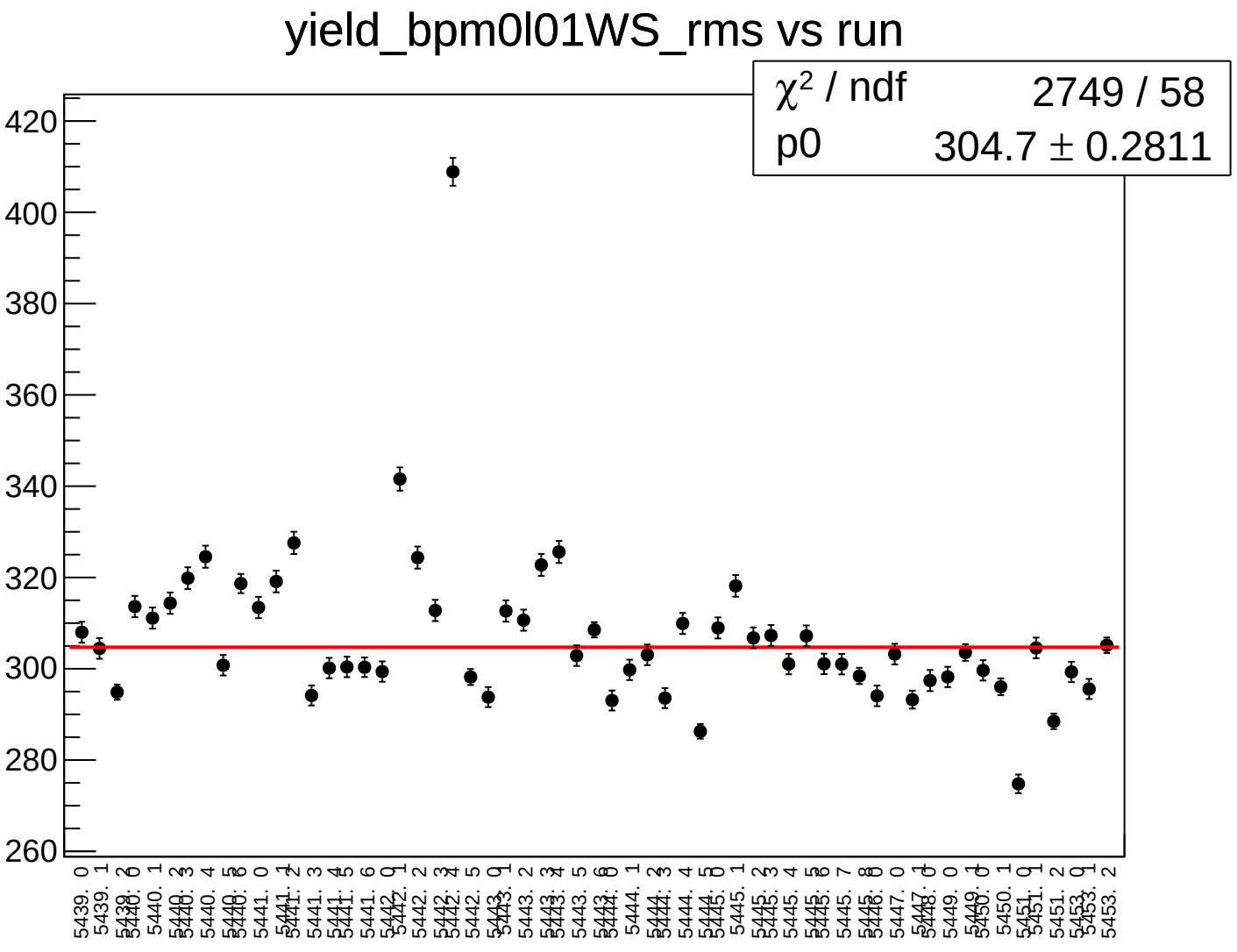

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.61e+04 / 58
p0 1.406e+05 ± 0.4704
140.85
140.8
140.75
140.7
140.65
140.6
140.55
140.5
pull
Entries 59
Mean −256.4
Std Dev 289.7
80
60
40
20
0
−20

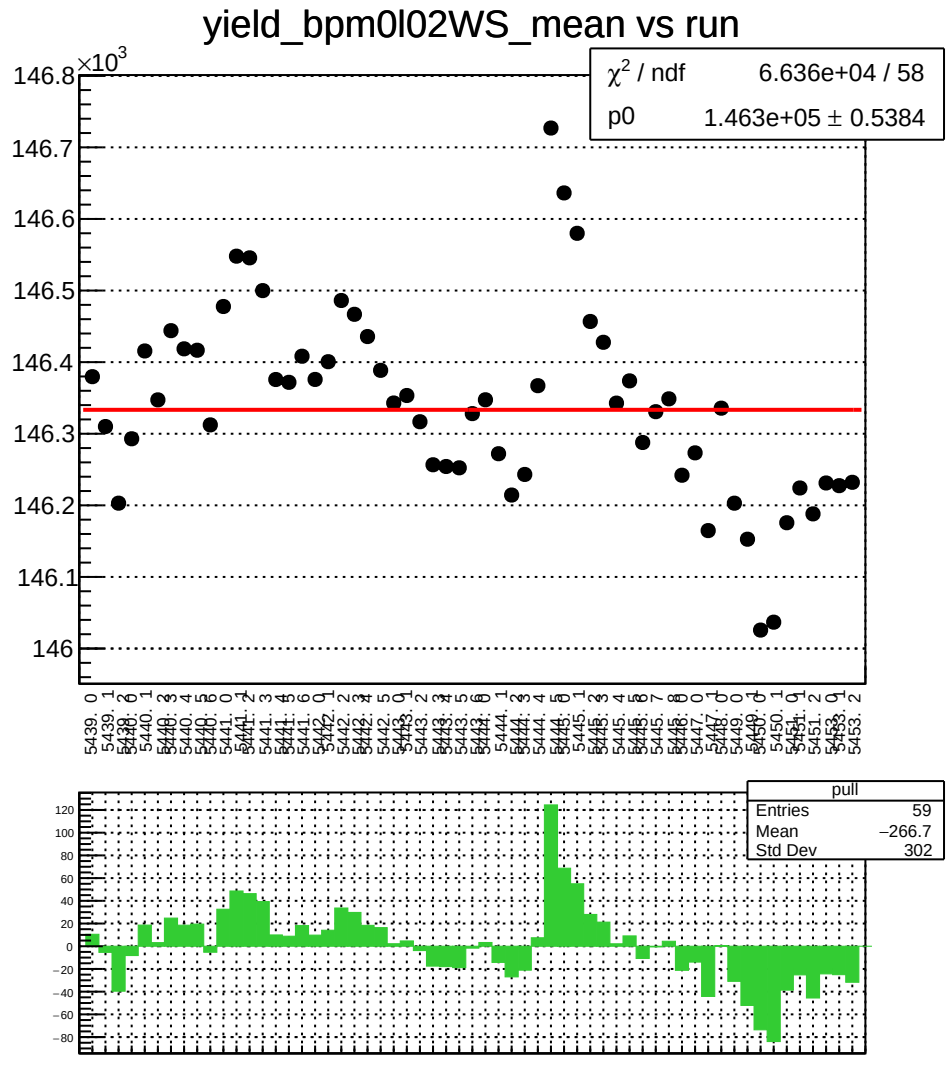

pull1D
Entries 59
Mean −2.223
Std Dev 4.111
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

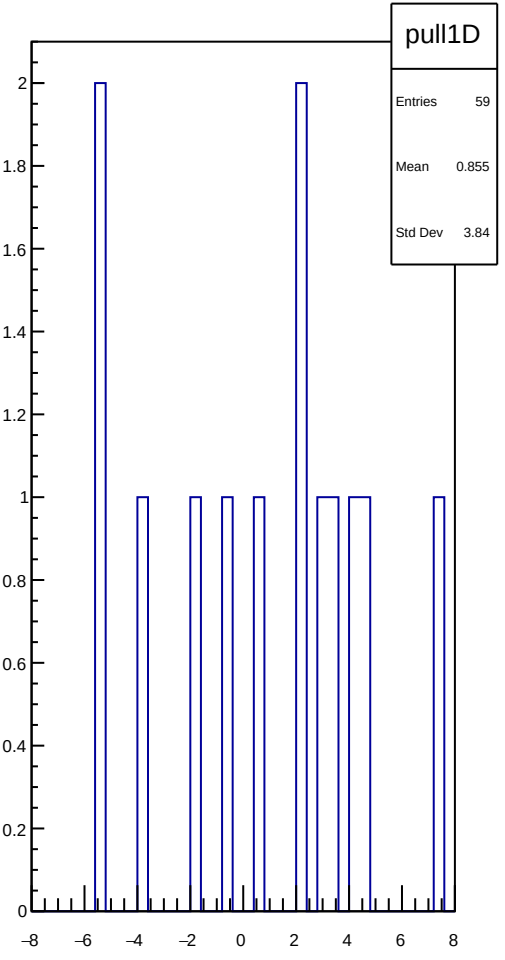

yield_bpm0i01aWS_rms vs run
χ² / ndf 2924 / 58
p0 360.6 ± 0.3326
500
480
460
440
420
400
380
360
340
320

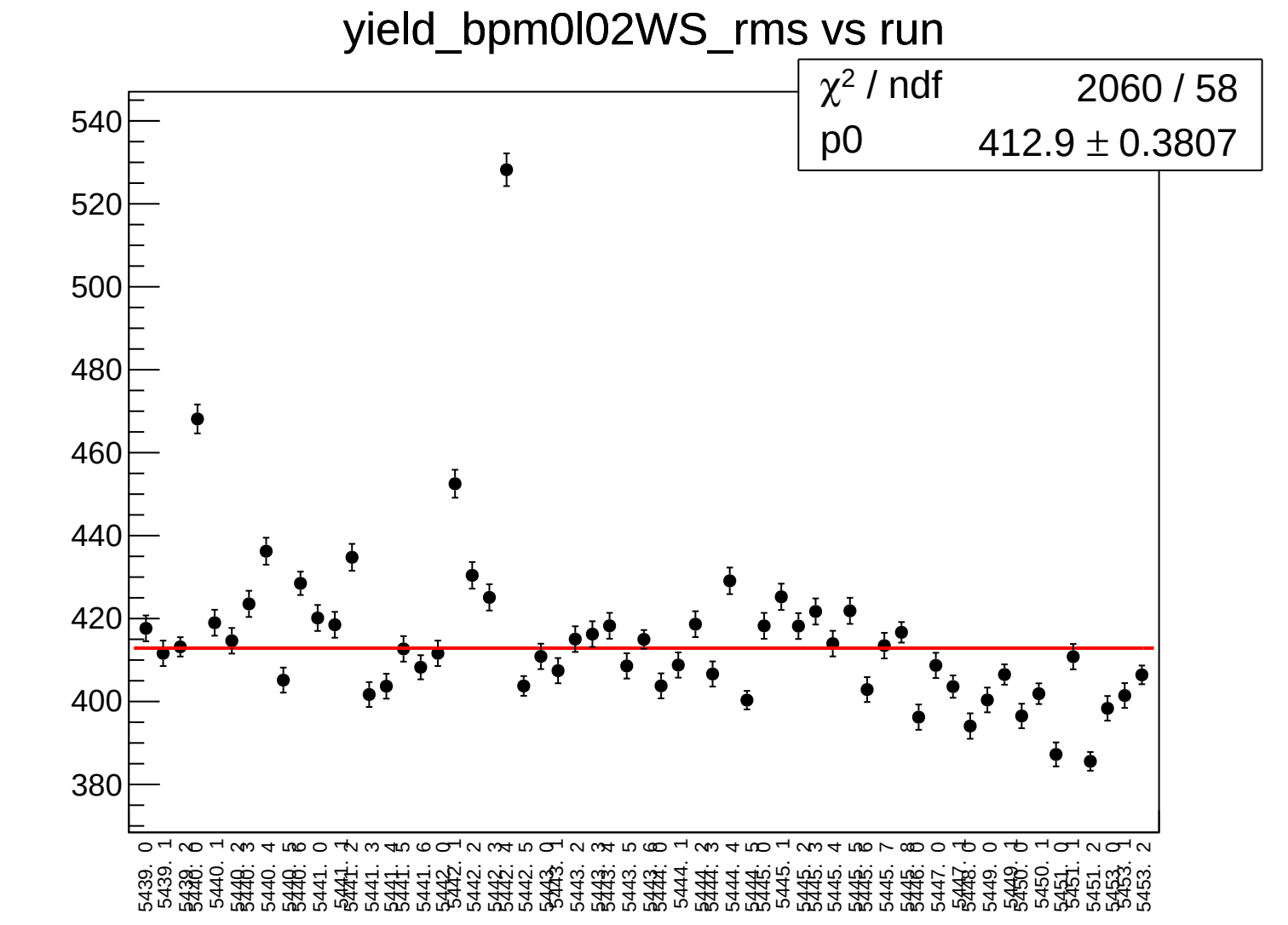

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.795e+04 / 58
p0 1.262e+05 ± 0.3975
126.4
126.35
126.3
126.25
126.2
126.15
126.1
pull
Entries 59
Mean −327.3
Std Dev 371.9
60
40
20
0
−20
−40

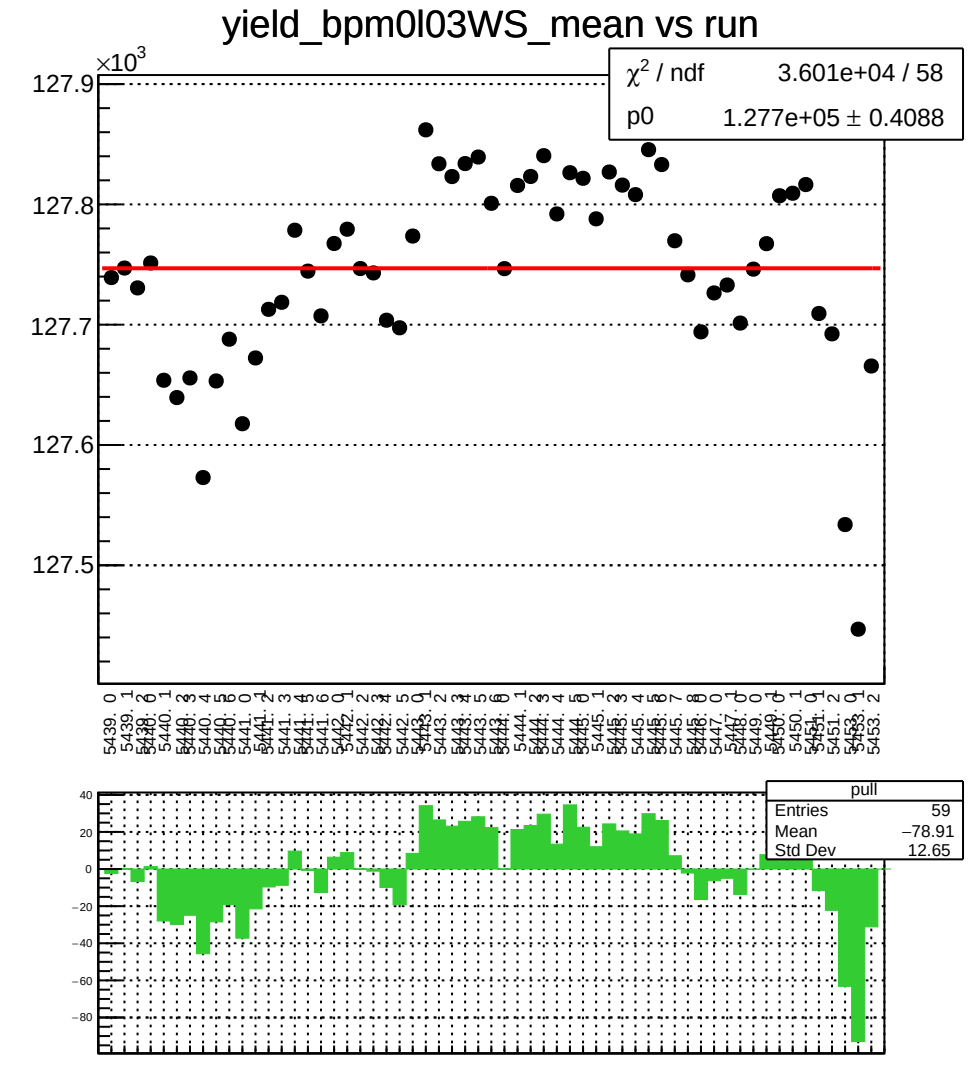

pull1D
Entries 59
Mean −0.5509
Std Dev 3.633
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

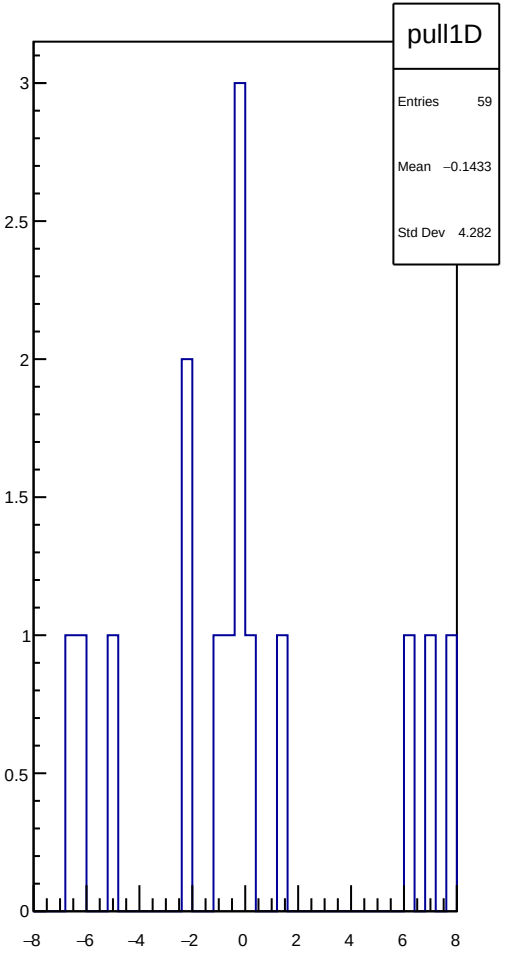

yield_bpm0l01WS_rms vs run
χ² / ndf 2749 / 58
p0 304.7 ± 0.2811
420
400
380
360
340
320
300
280
260

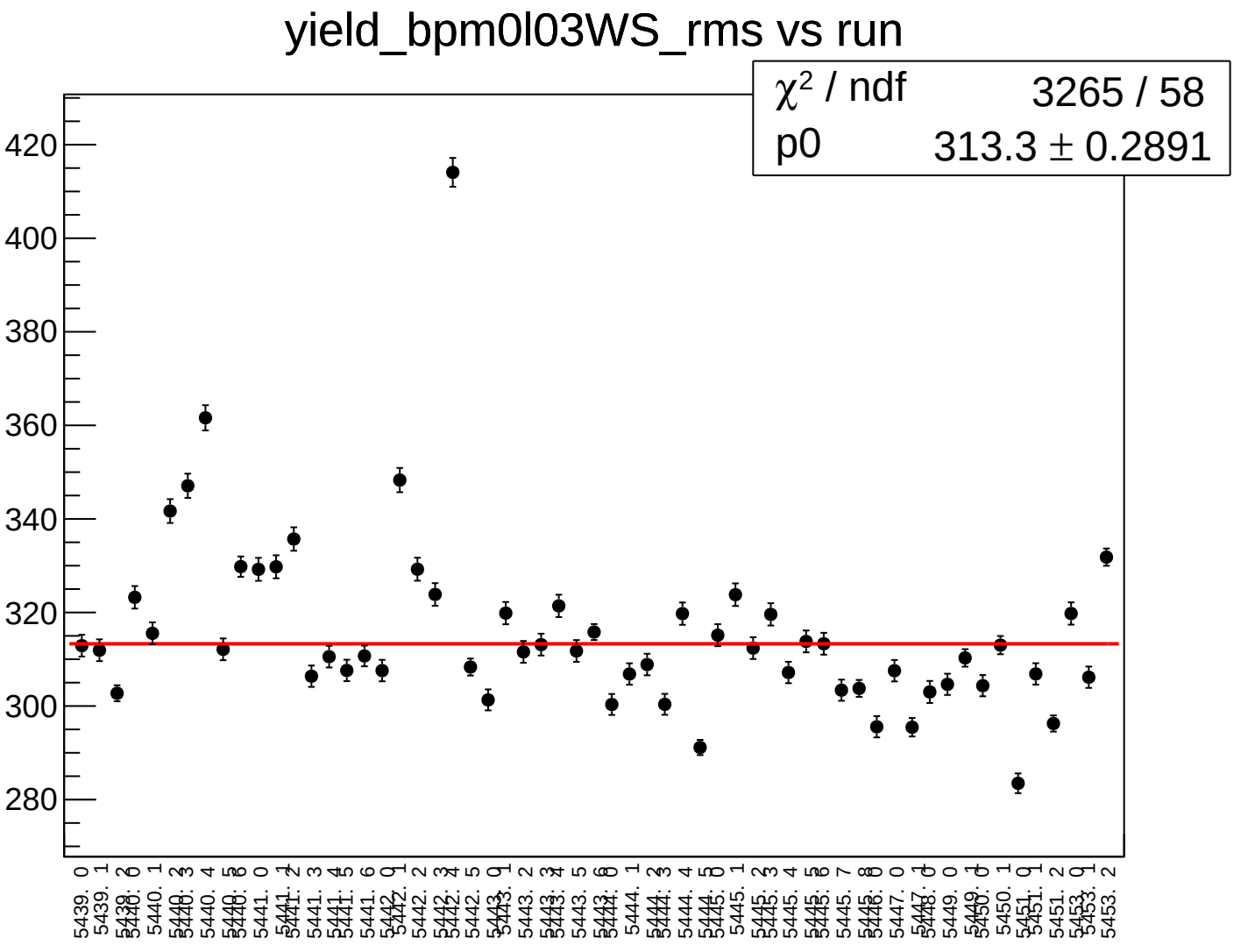

yield_bpm0l02WS_mean vs run
×10^3
146.8
146.7
146.6
146.5
146.4
146.3
146.2
146.1
146
χ² / ndf 6.636e+04 / 58
p0 1.463e+05 ± 0.5384
pull
Entries 59
Mean −266.7
Std Dev 302
120
100
80
60
40
20
0
−20
−40
−60
−80

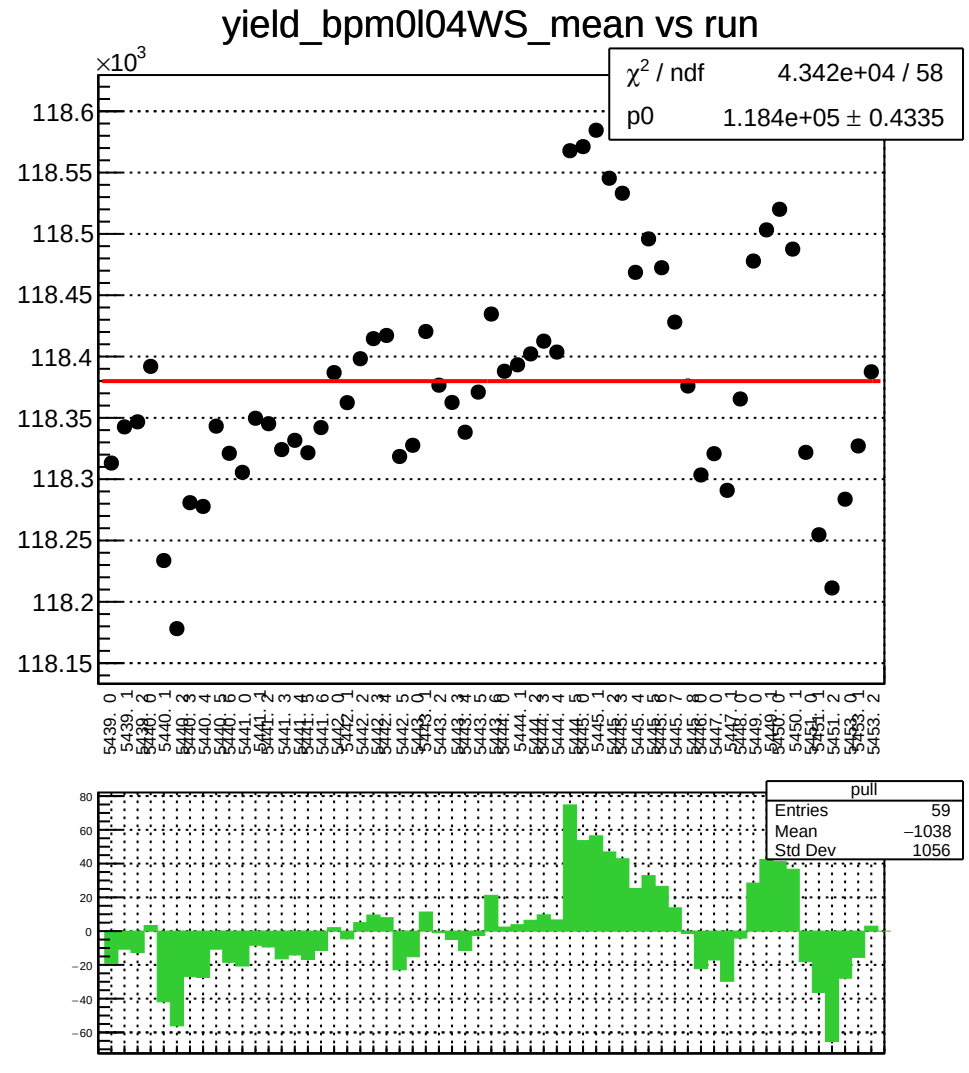

pull1D
Entries 59
Mean 0.855
Std Dev 3.84
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

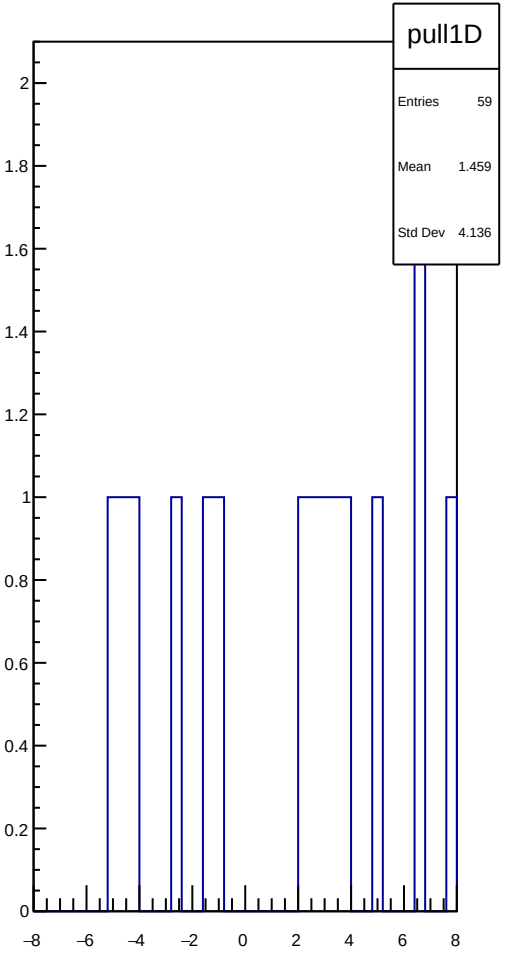

yield_bpm0l02WS_rms vs run
χ² / ndf 2060 / 58
p0 412.9 ± 0.3807
540
520
500
480
460
440
420
400
380

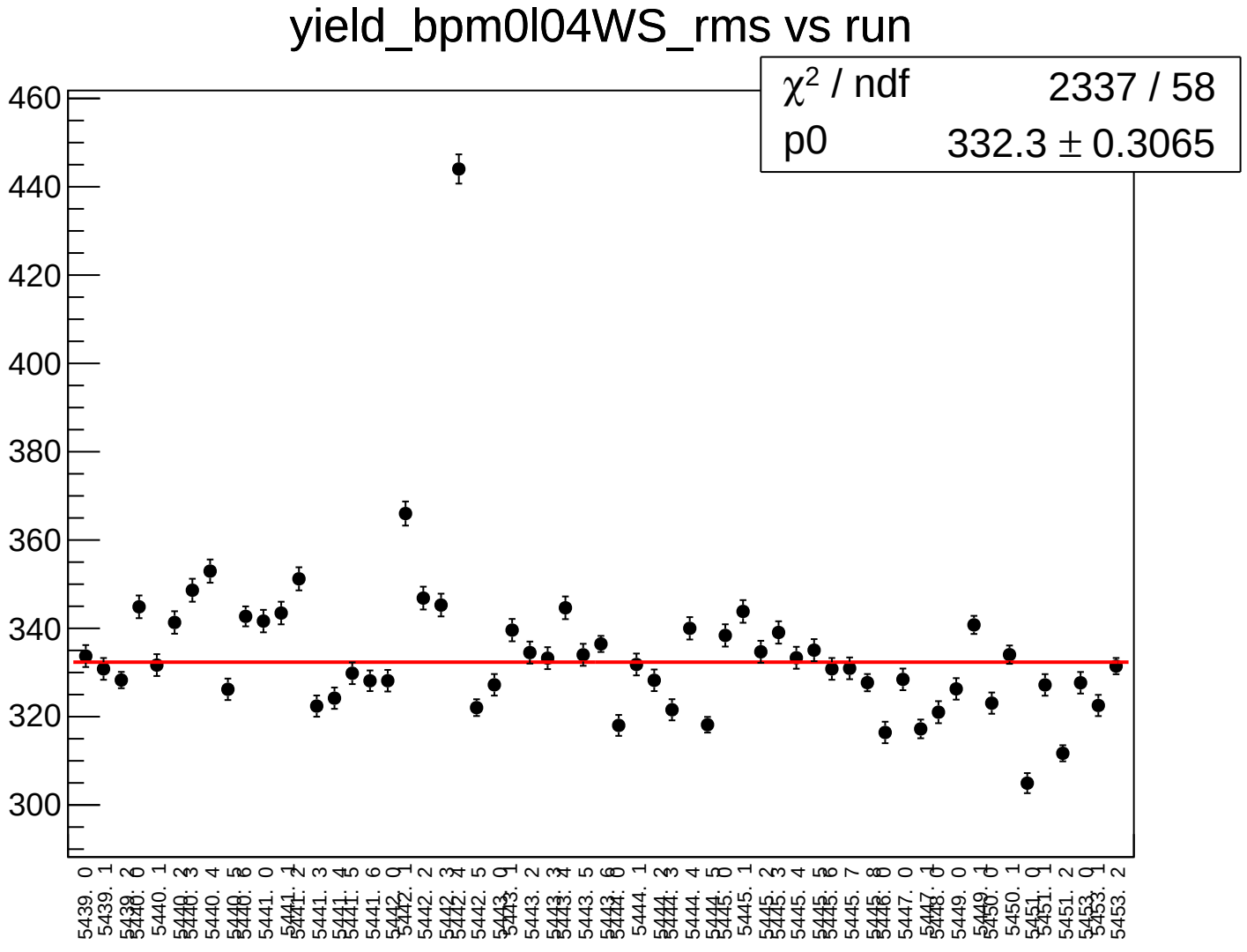

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.601e+04 / 58
p0 1.277e+05 ± 0.4088
127.9
127.8
127.7
127.6
127.5
pull
Entries 59
Mean −78.91
Std Dev 12.65
40
20
0
−20
−40
−60
−80

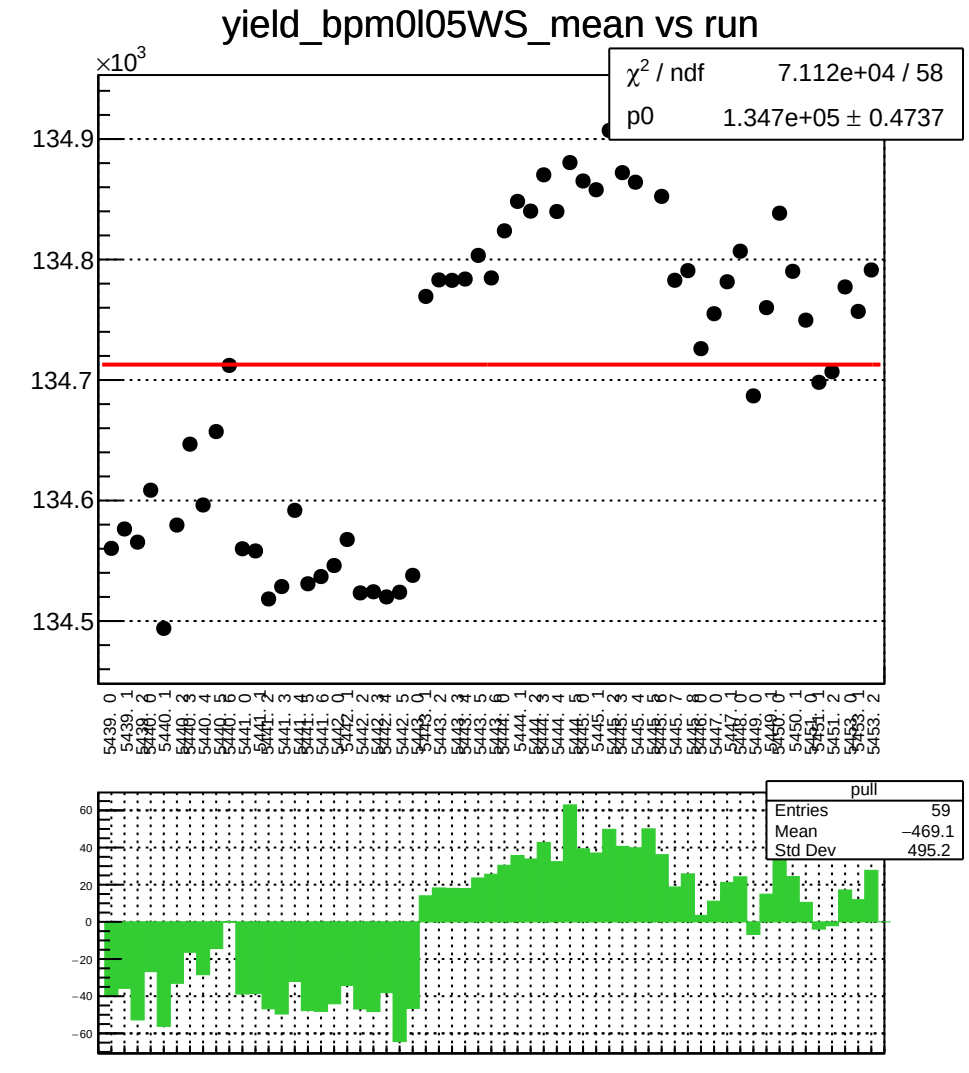

pull1D
Entries 59
Mean −0.1433
Std Dev 4.282
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

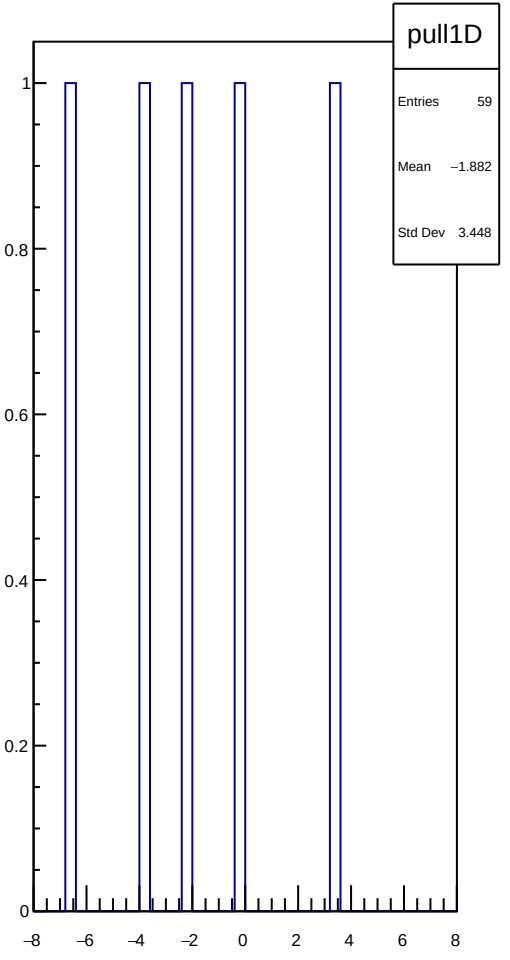

yield_bpm0l03WS_rms vs run
χ² / ndf 3265 / 58
p0 313.3 ± 0.2891
420
400
380
360
340
320
300
280

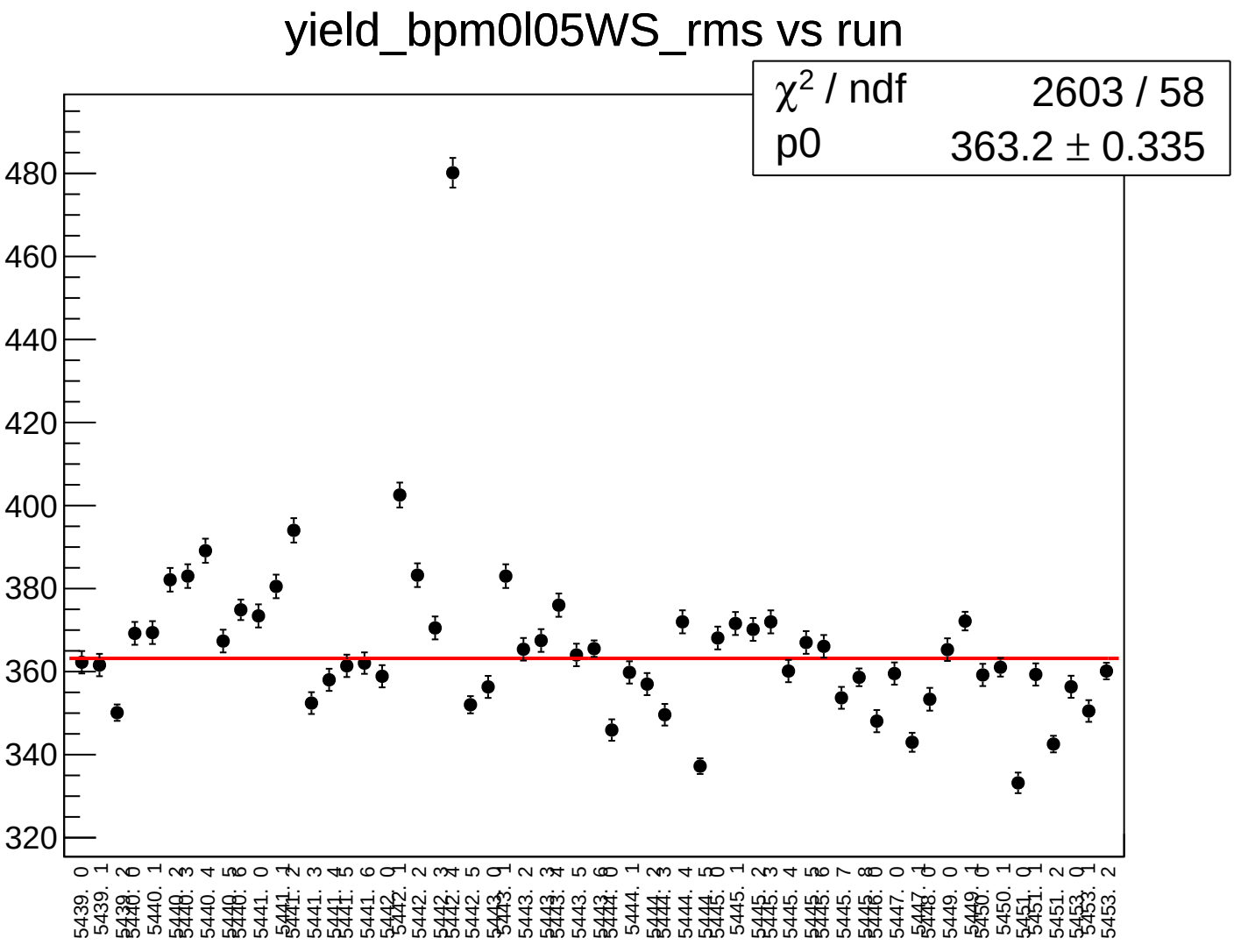

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.342e+04 / 58
p0 1.184e+05 ± 0.4335
118.6
118.55
118.5
118.45
118.4
118.35
118.3
118.25
118.2
118.15
pull
Entries 59
Mean −1038
Std Dev 1056
80
60
40
20
0
−20
−40
−60

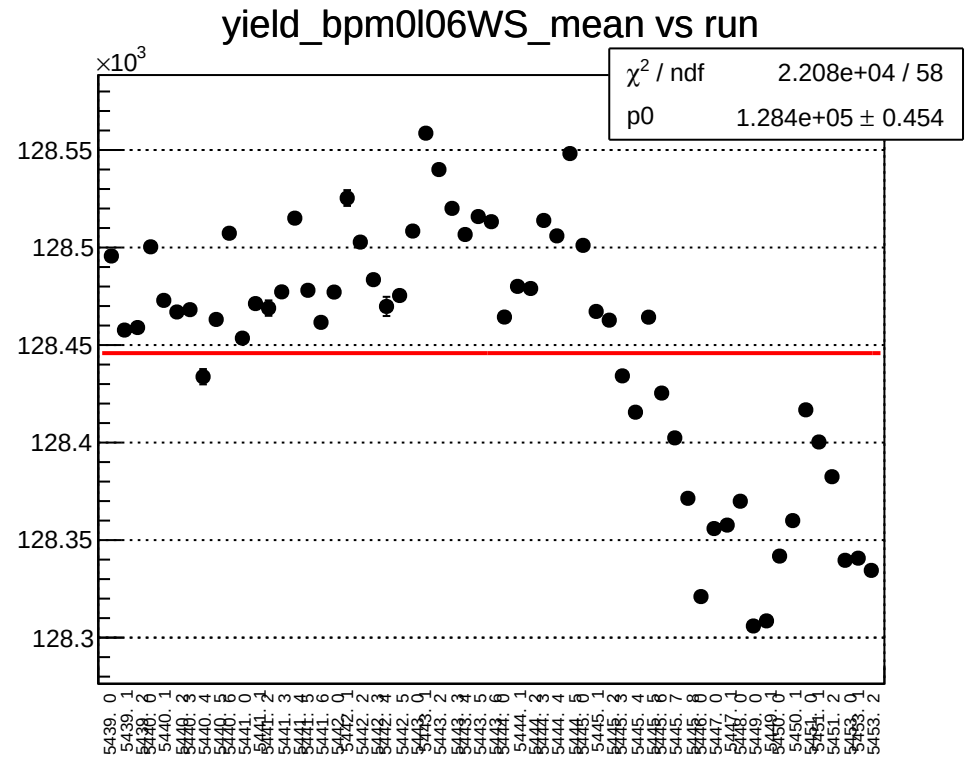

pull1D
Entries 59
Mean 1.459
Std Dev 4.136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

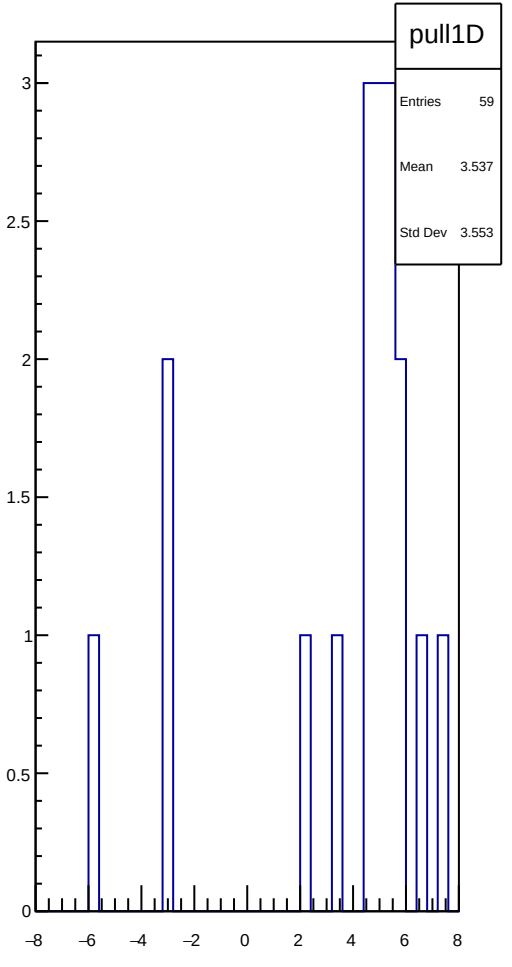

yield_bpm0l04WS_rms vs run
χ² / ndf 2337 / 58
p0 332.3 ± 0.3065
460
440
420
400
380
360
340
320
300

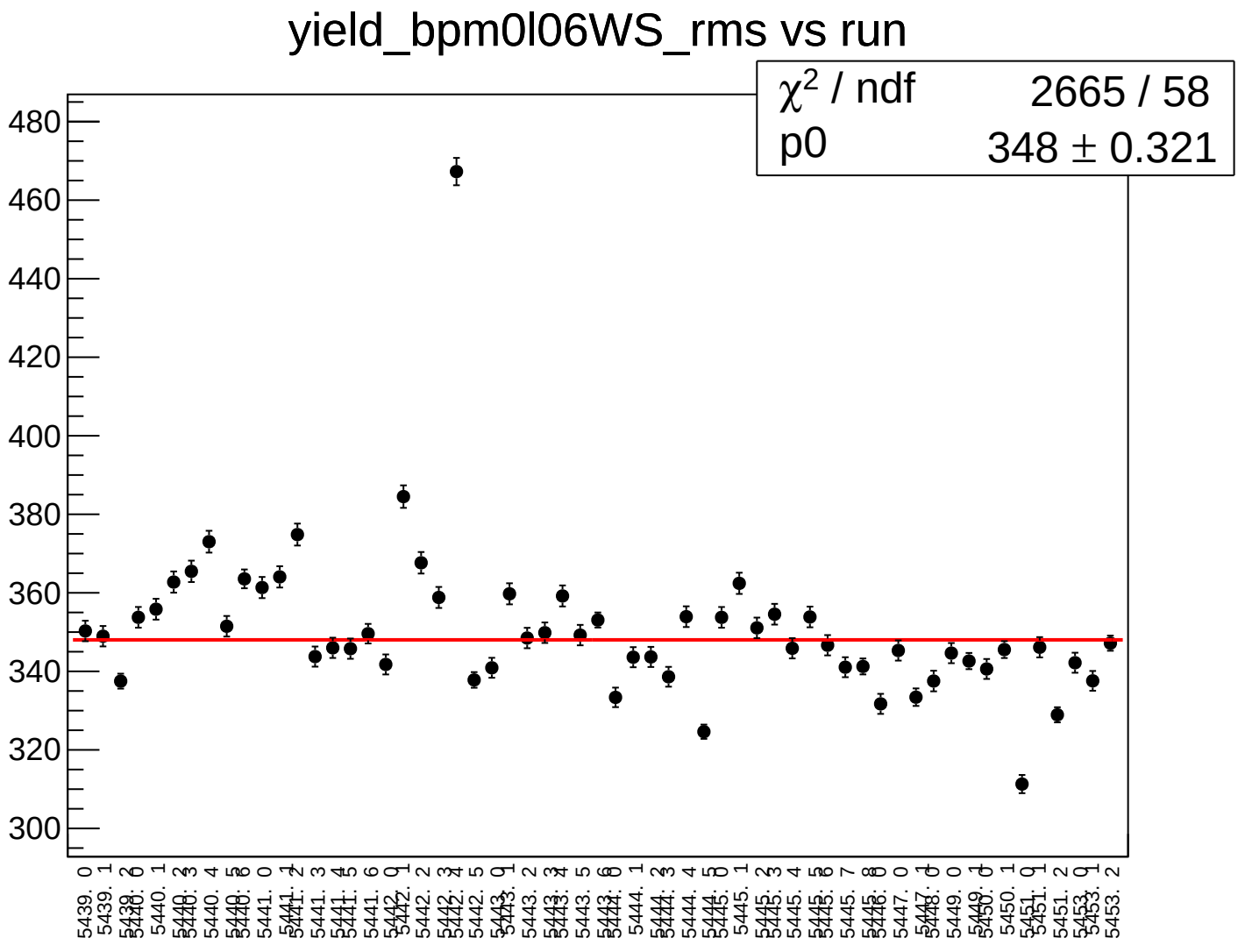

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.112e+04 / 58
p0 1.347e+05 ± 0.4737
134.9
134.8
134.7
134.6
134.5
pull
Entries 59
Mean −469.1
Std Dev 495.2
60
40
20
0
−20
−40
−60

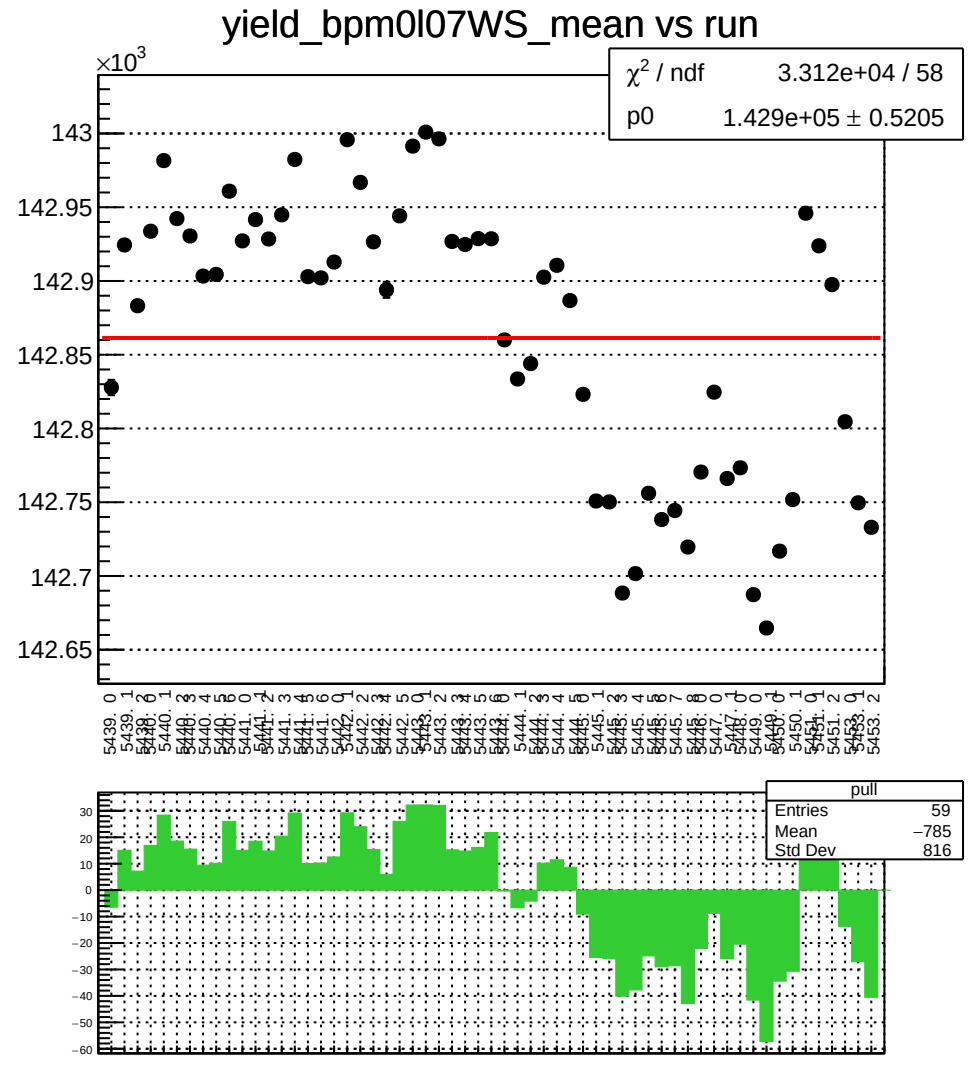

pull1D
Entries 59
Mean −1.882
Std Dev 3.448
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

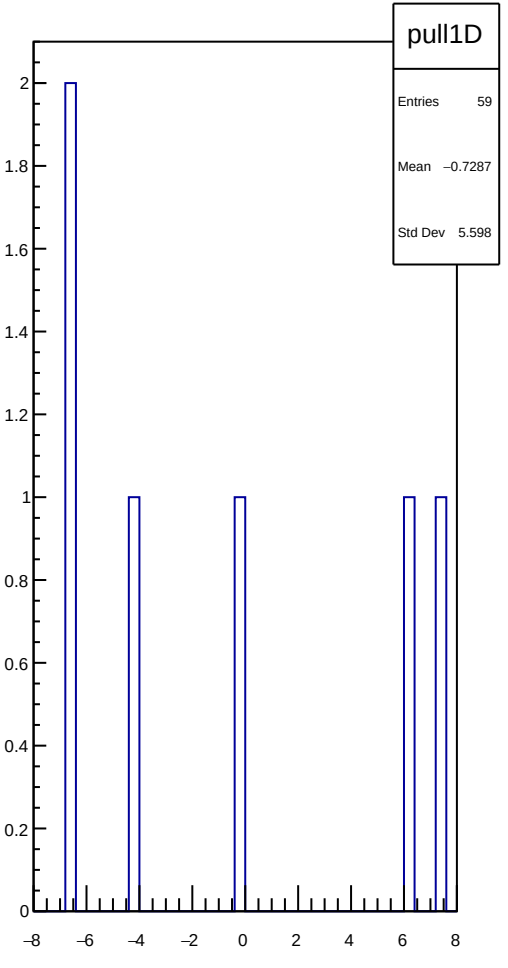

yield_bpm0l05WS_rms vs run
χ² / ndf 2603 / 58
p0 363.2 ± 0.335
480
460
440
420
400
380
360
340
320

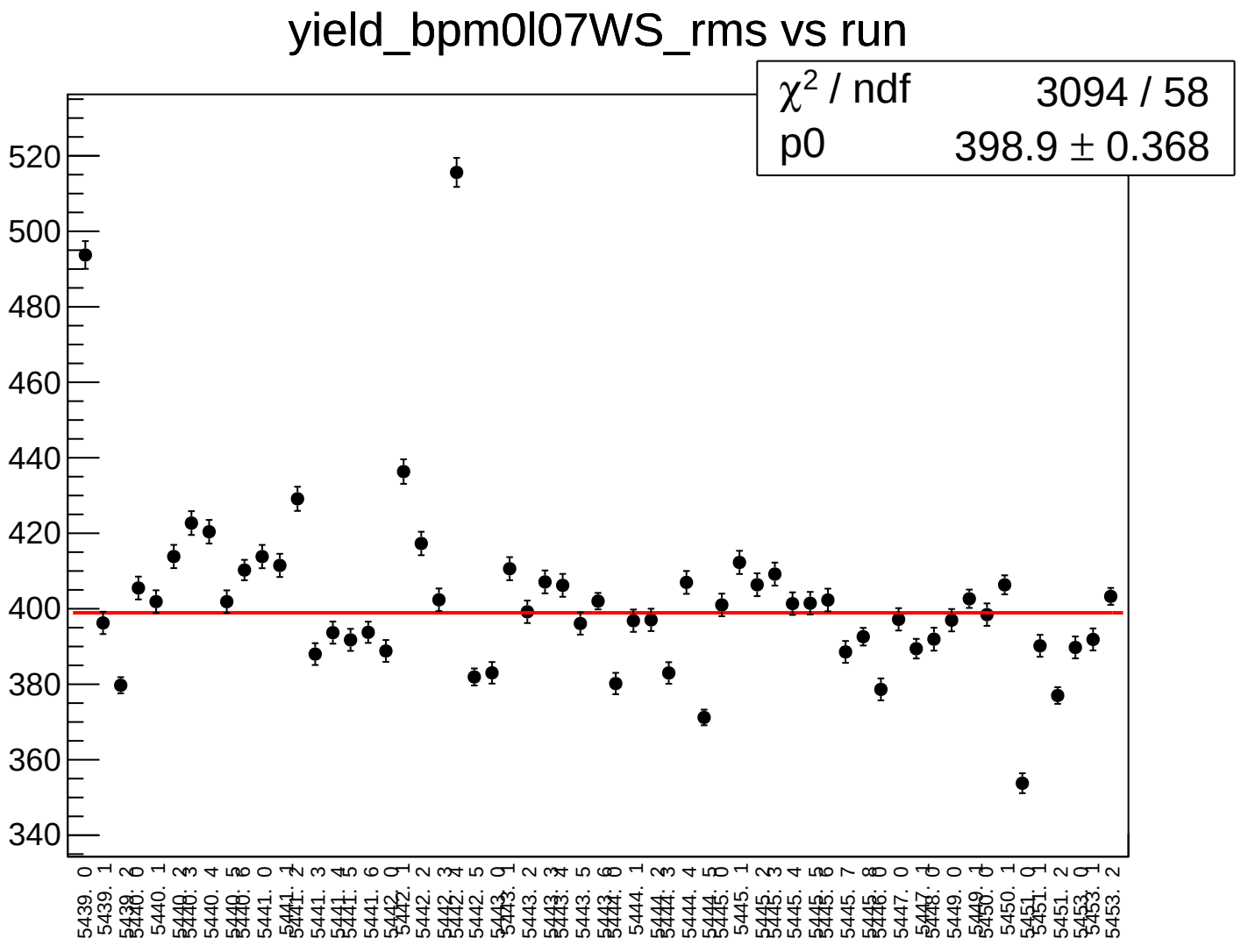

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.208e+04 / 58
p0 1.284e+05 ± 0.454
128.55
128.5
128.45
128.4
128.35
128.3
pull
Entries 59
Mean −394.5
Std Dev 429.6
40
30
20
10
0
−10
−20
−30
−40
−50

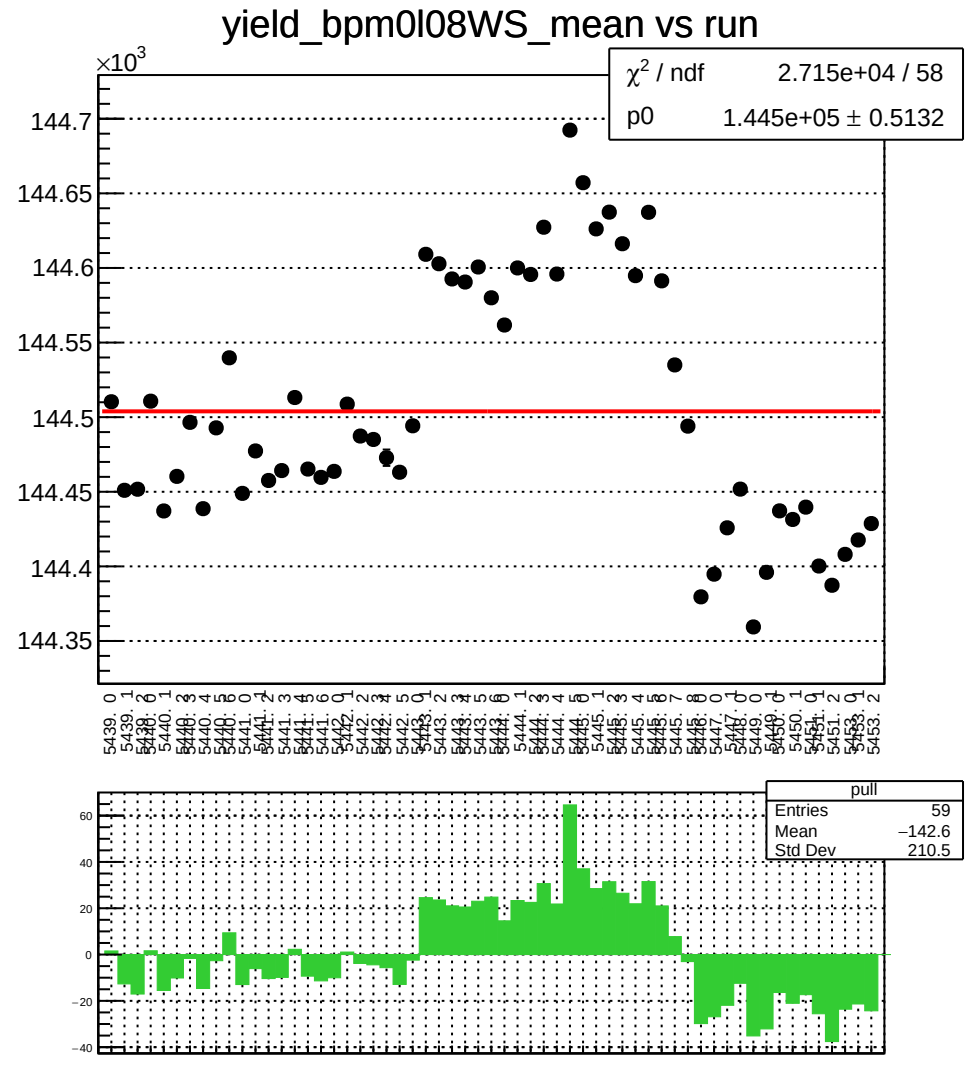

pull1D
Entries 59
Mean 3.537
Std Dev 3.553
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

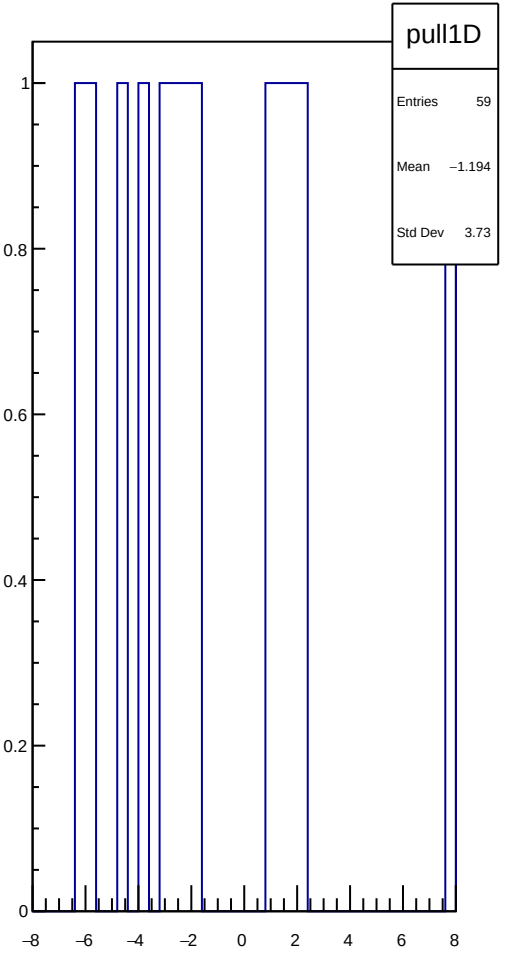

yield_bpm0l06WS_rms vs run
χ² / ndf 2665 / 58
p0 348 ± 0.321
480
460
440
420
400
380
360
340
320
300

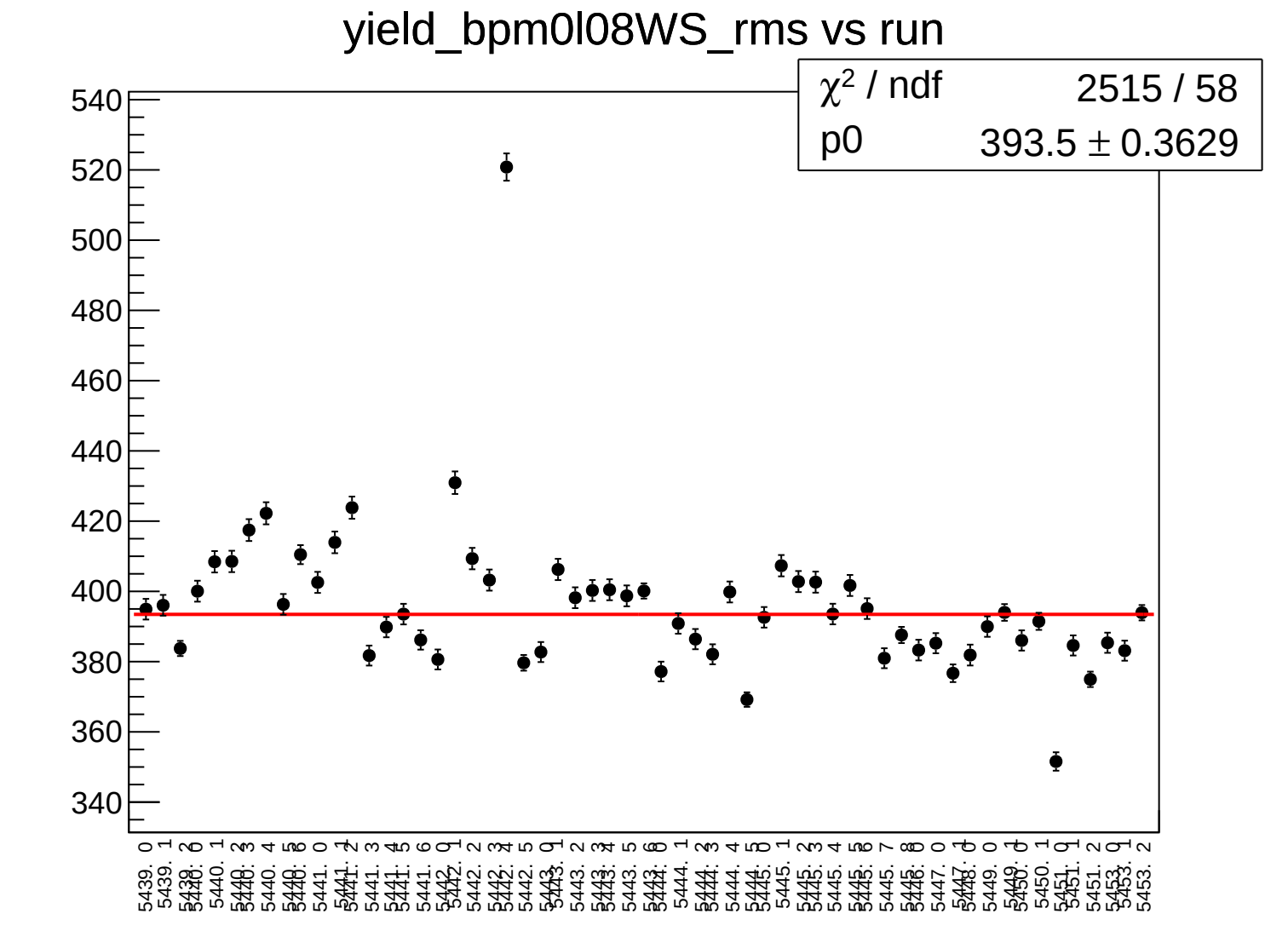

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.312e+04 / 58
p0 1.429e+05 ± 0.5205
143
142.95
142.9
142.85
142.8
142.75
142.7
142.65
pull
Entries 59
Mean −785
Std Dev 816
30
20
10
0
−10
−20
−30
−40
−50
−60

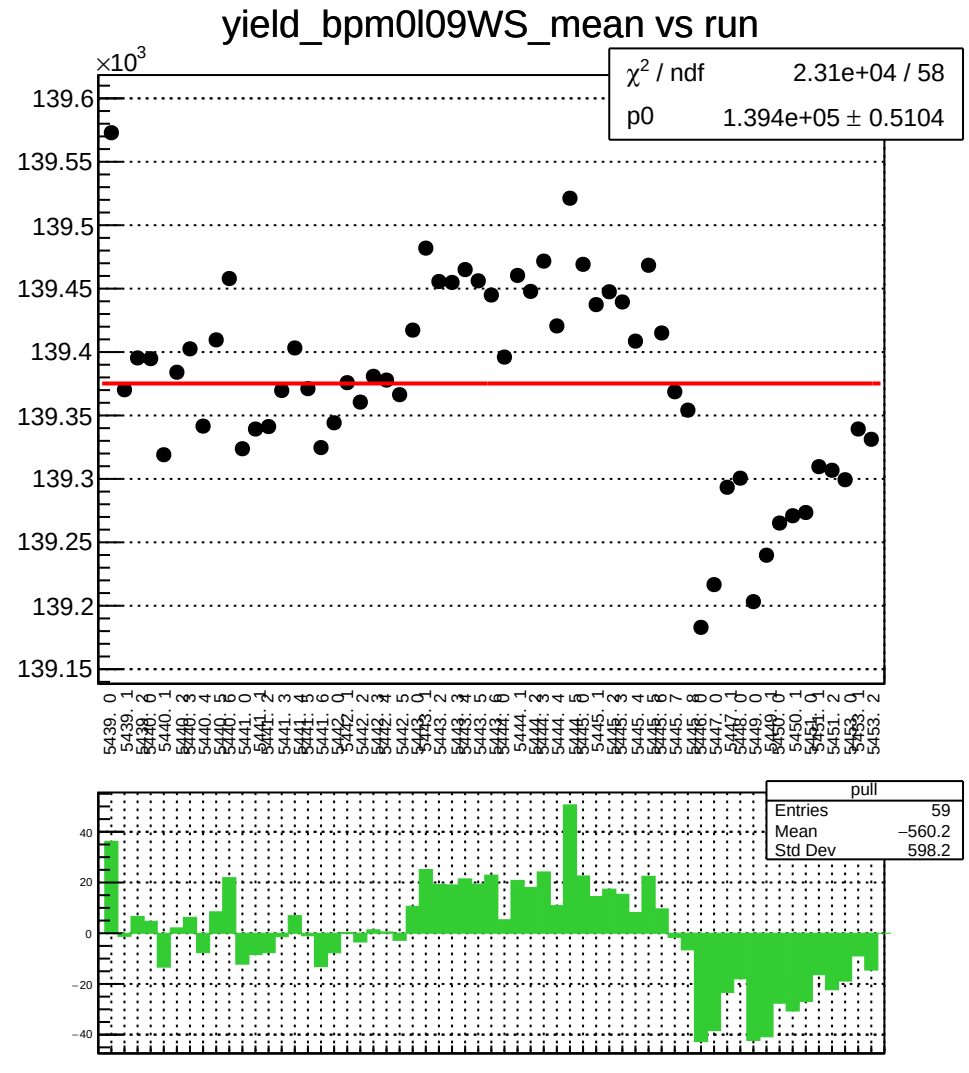

pull1D
Entries 59
Mean −0.7287
Std Dev 5.598
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

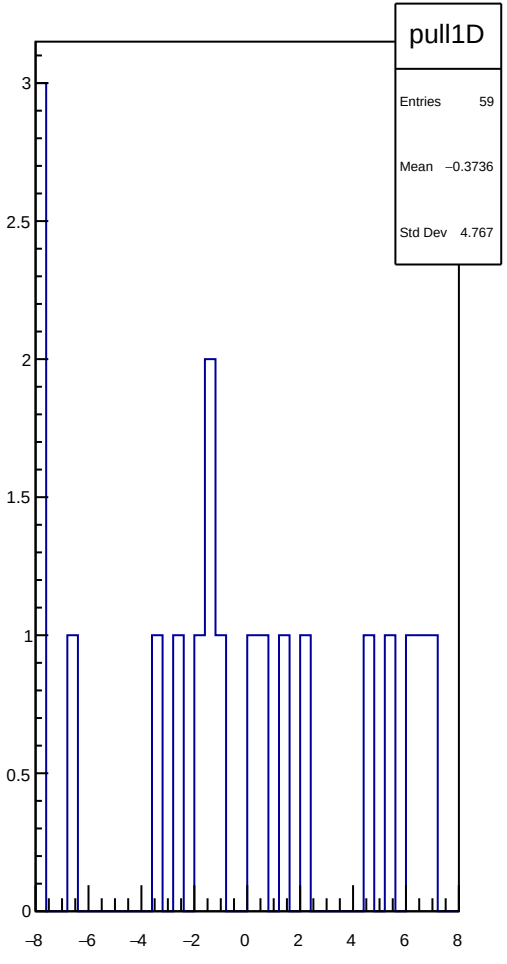

yield_bpm0l07WS_rms vs run
χ² / ndf 3094 / 58
p0 398.9 ± 0.368
520
500
480
460
440
420
400
380
360
340

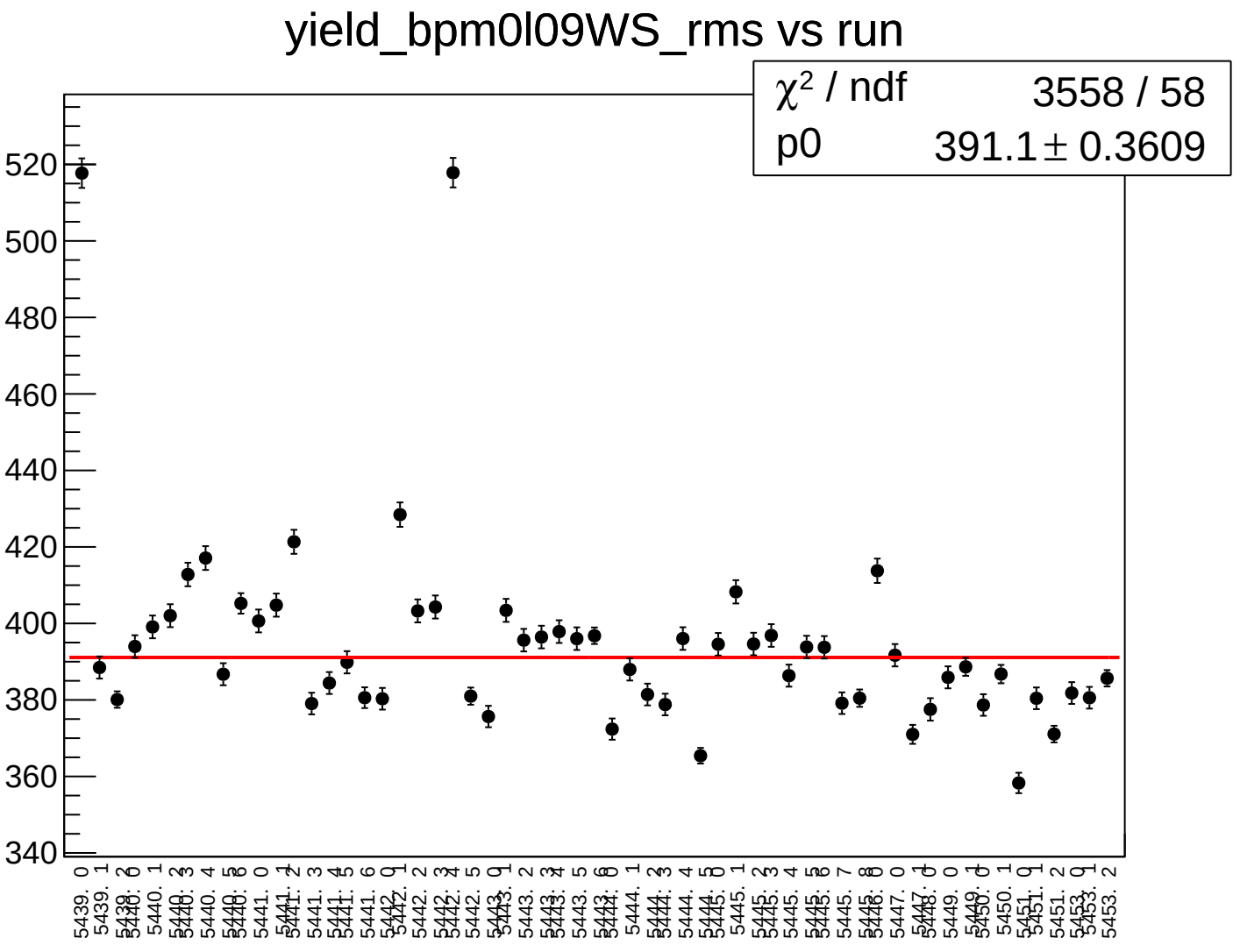

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.715e+04 / 58
p0 1.445e+05 ± 0.5132
144.7
144.65
144.6
144.55
144.5
144.45
144.4
144.35
pull
Entries 59
Mean −142.6
Std Dev 210.5
60
40
20
0
−20
−40

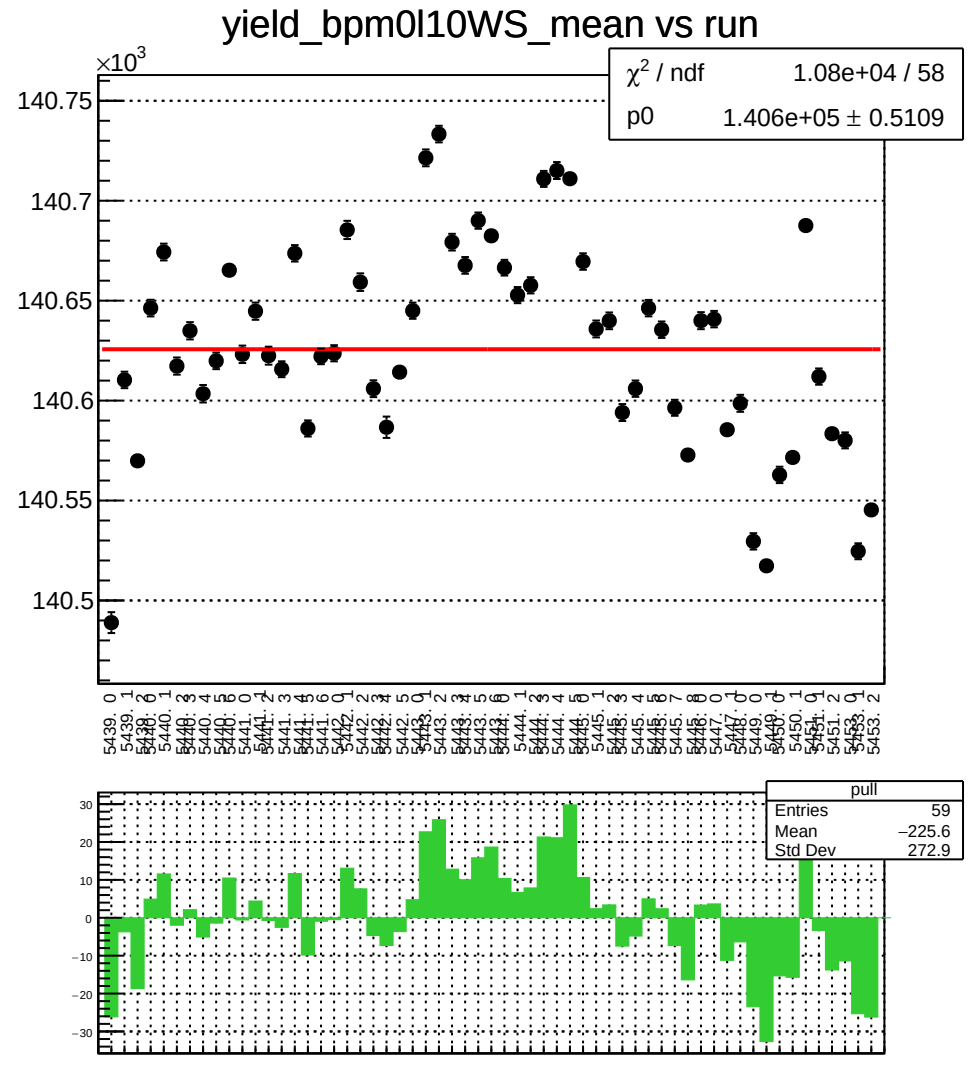

pull1D
Entries 59
Mean −1.194
Std Dev 3.73
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

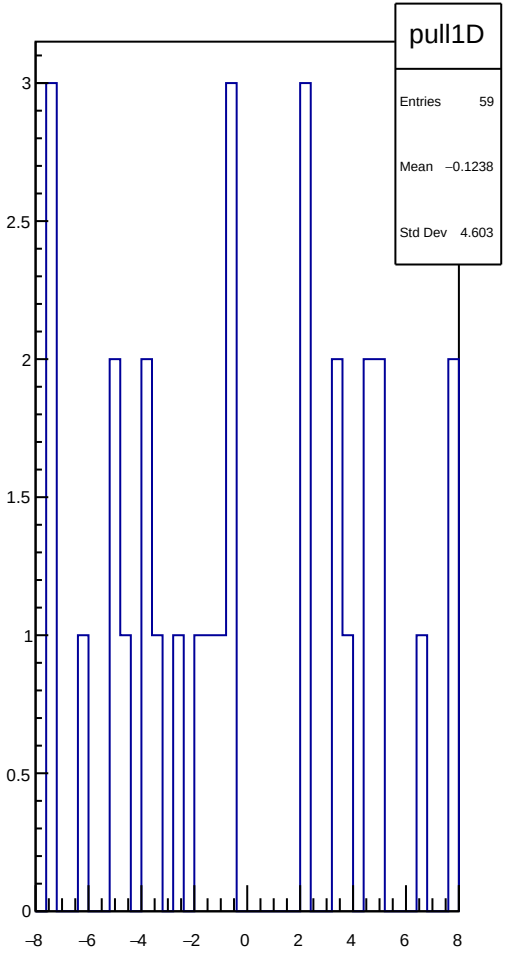

yield_bpm0l08WS_rms vs run
$\chi^2$ / ndf 2515 / 58
p0 393.5 ± 0.3629
540
520
500
480
460
440
420
400
380
360
340

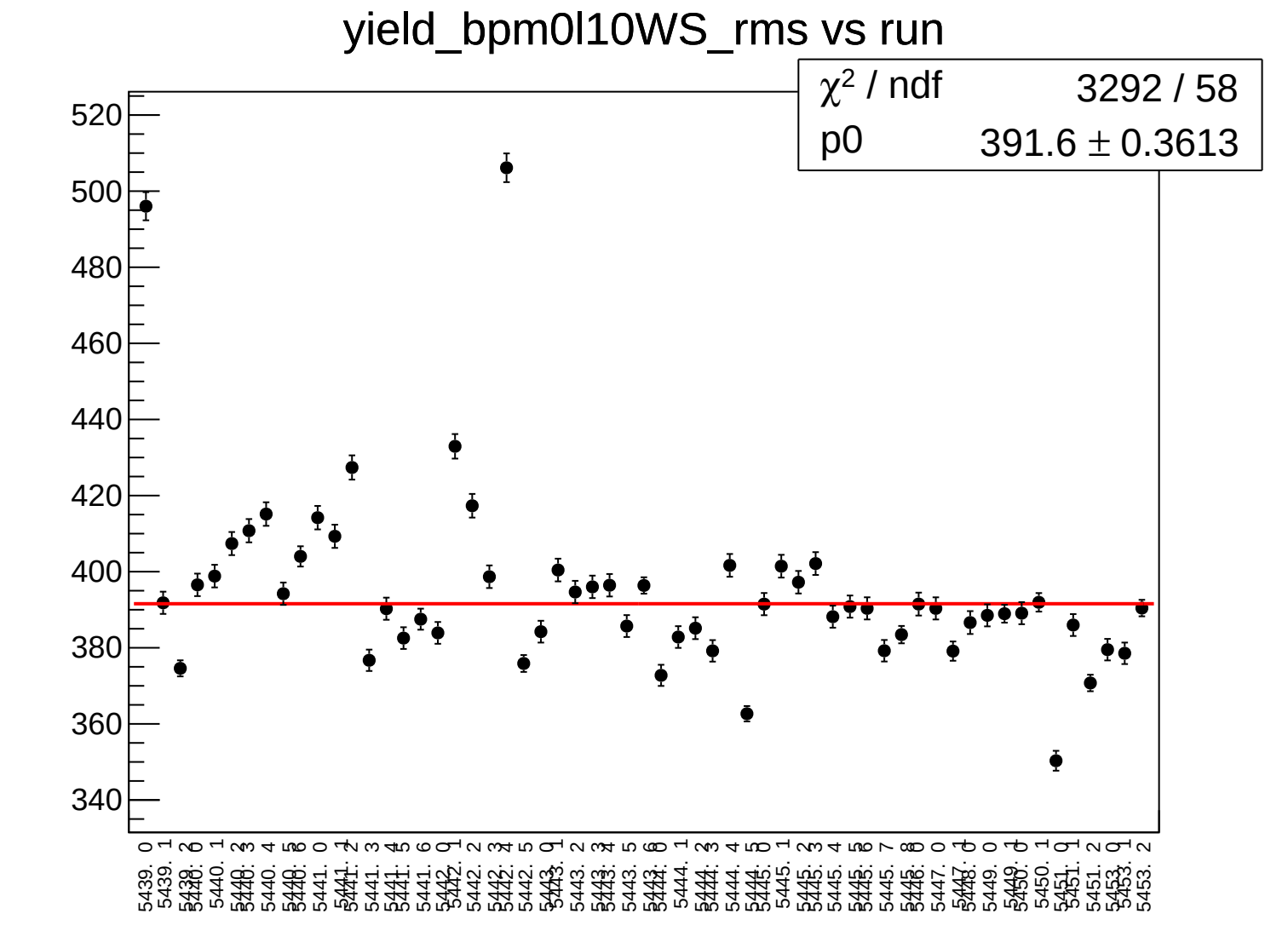

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.31e+04 / 58
p0 1.394e+05 ± 0.5104
pull
Entries 59
Mean −560.2
Std Dev 598.2

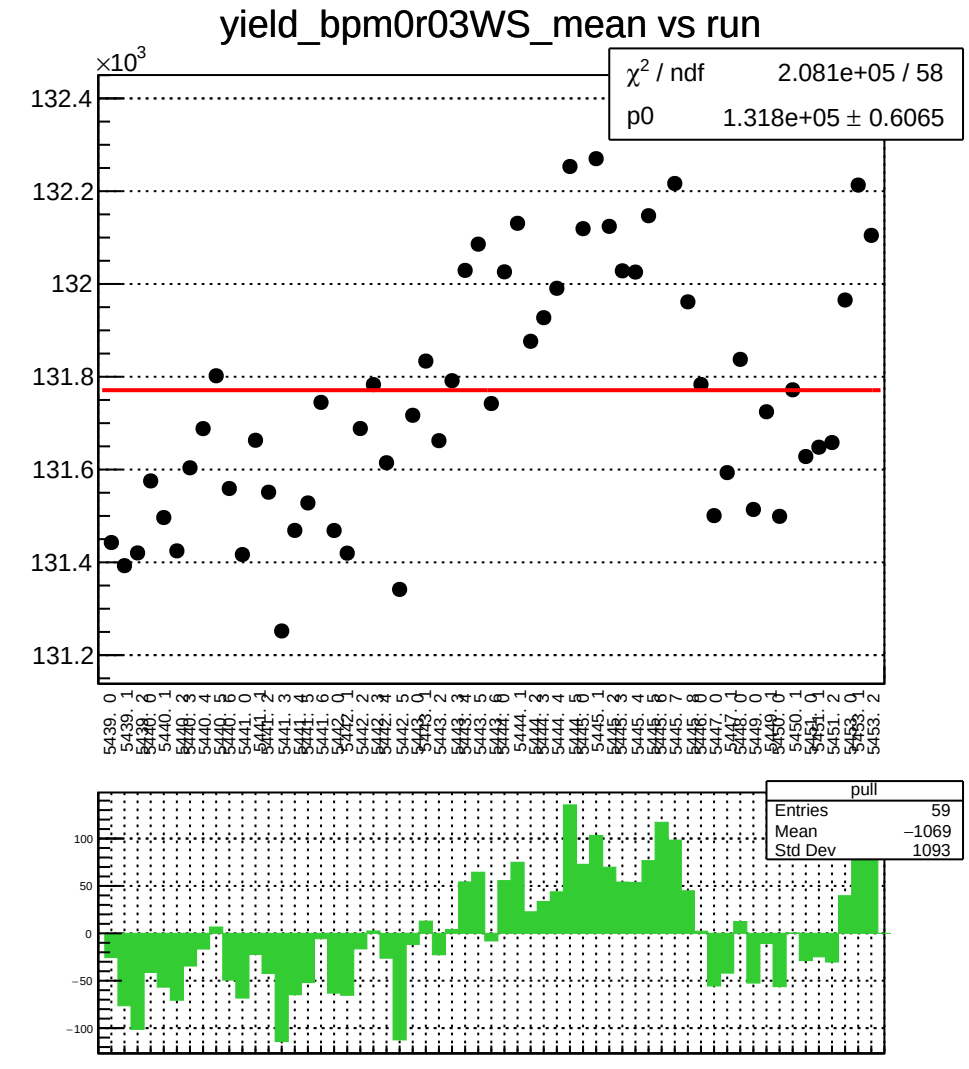

pull1D
Entries 59
Mean −0.3736
Std Dev 4.767

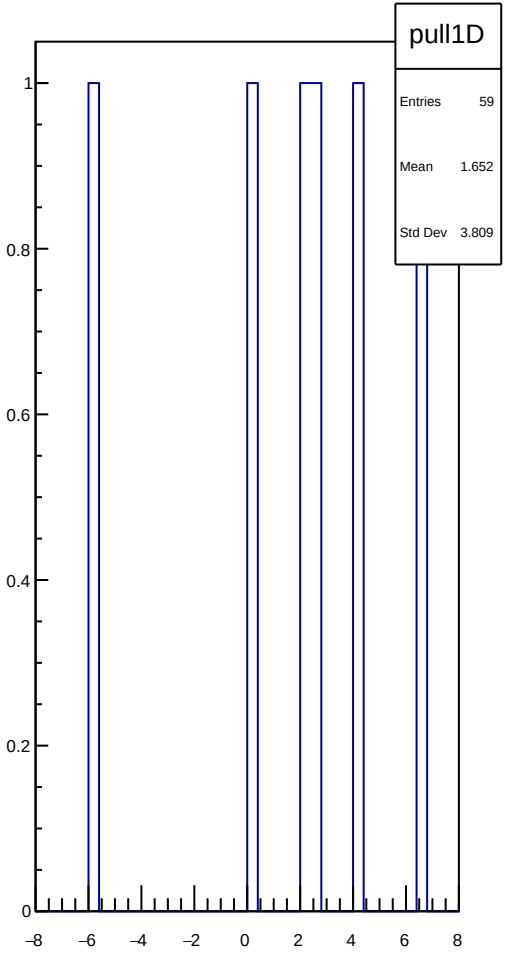

yield_bpm0l09WS_rms vs run
χ² / ndf 3558 / 58
p0 391.1 ± 0.3609
520
500
480
460
440
420
400
380
360
340

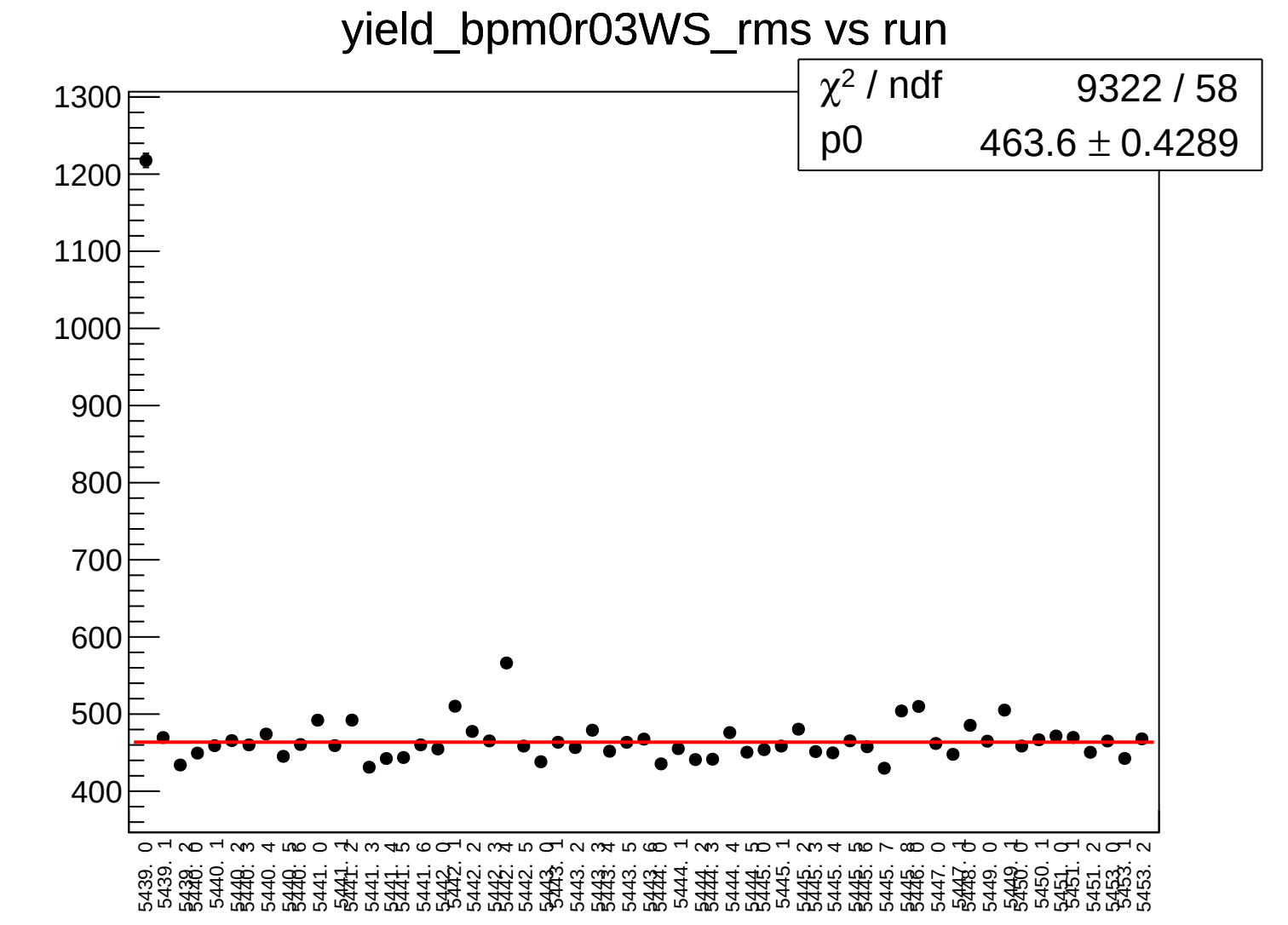

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.08e+04 / 58
p0 1.406e+05 ± 0.5109
140.75
140.7
140.65
140.6
140.55
140.5
pull
Entries 59
Mean −225.6
Std Dev 272.9
30
20
10
0
−10
−20
−30

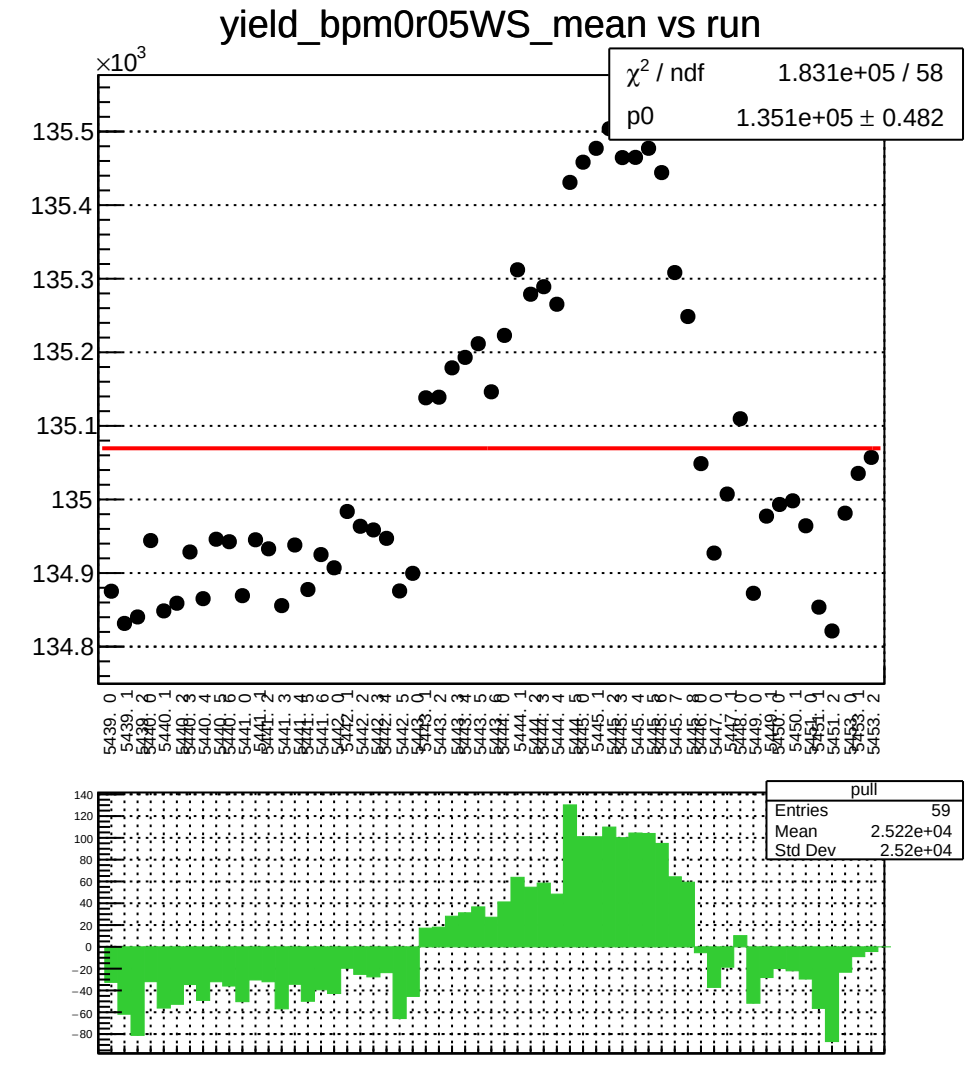

pull1D
Entries 59
Mean −0.1238
Std Dev 4.603
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

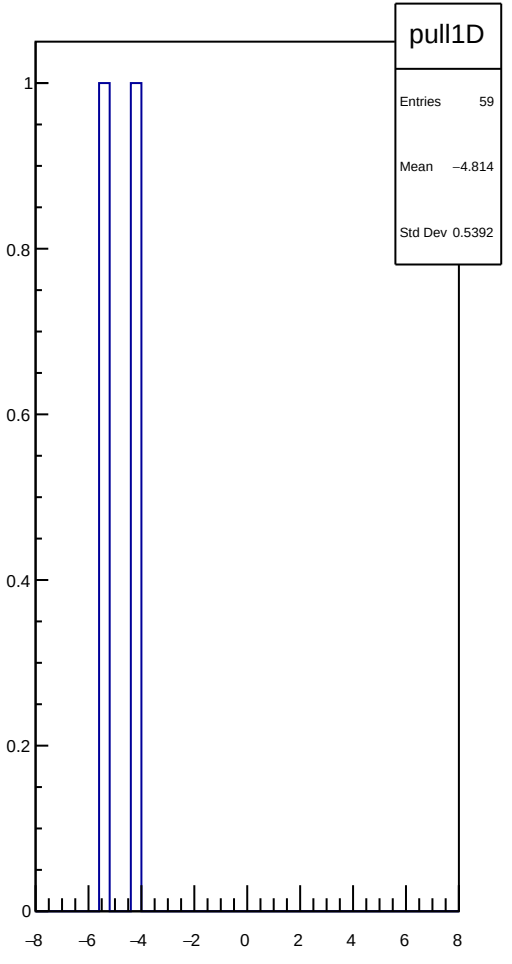

yield_bpm0l10WS_rms vs run
χ² / ndf 3292 / 58
p0 391.6 ± 0.3613
520
500
480
460
440
420
400
380
360
340

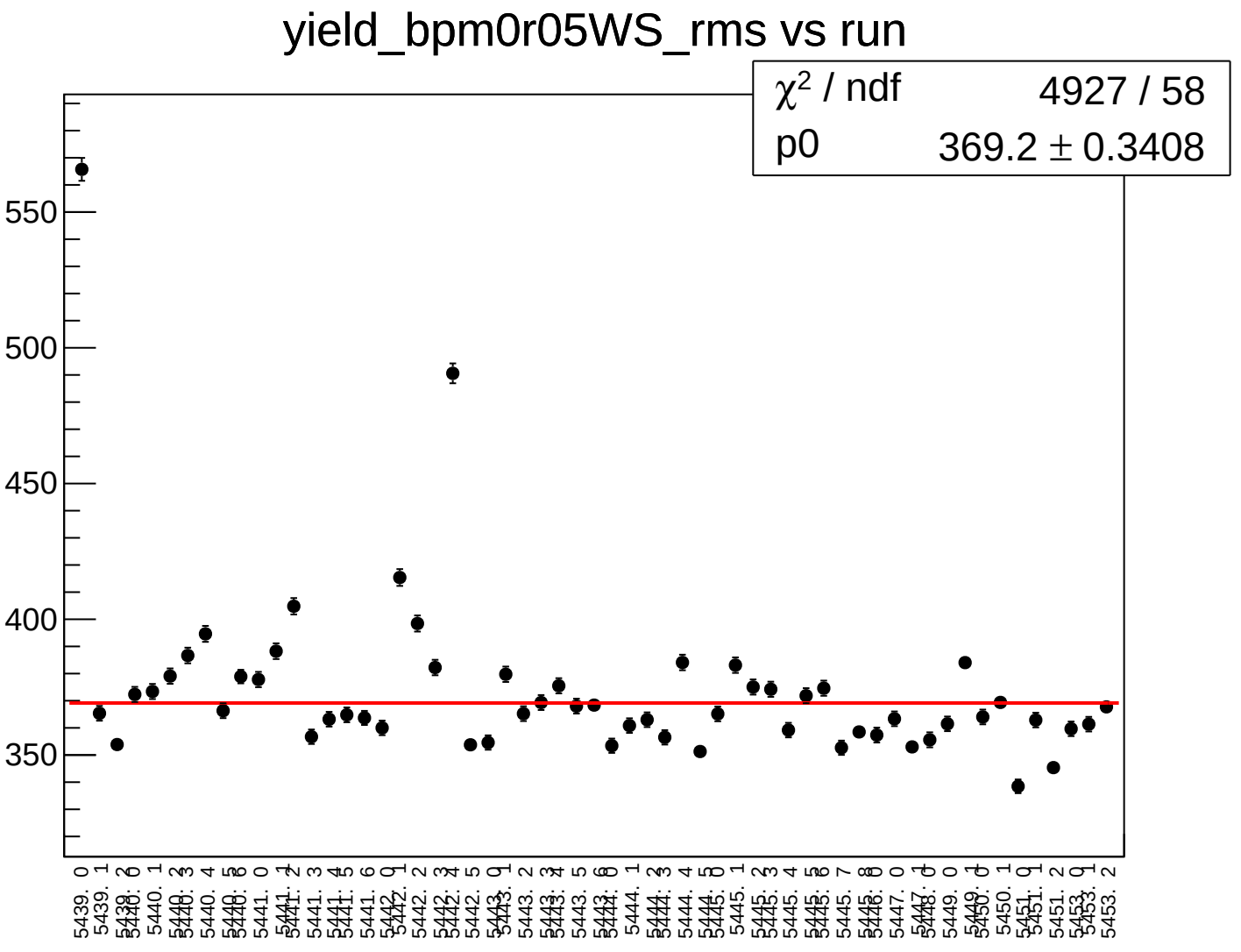

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 2.081e+05 / 58
p0 1.318e+05 ± 0.6065
132.4
132.2
132
131.8
131.6
131.4
131.2
pull
Entries 59
Mean −1069
Std Dev 1093
100
50
0
−50
−100

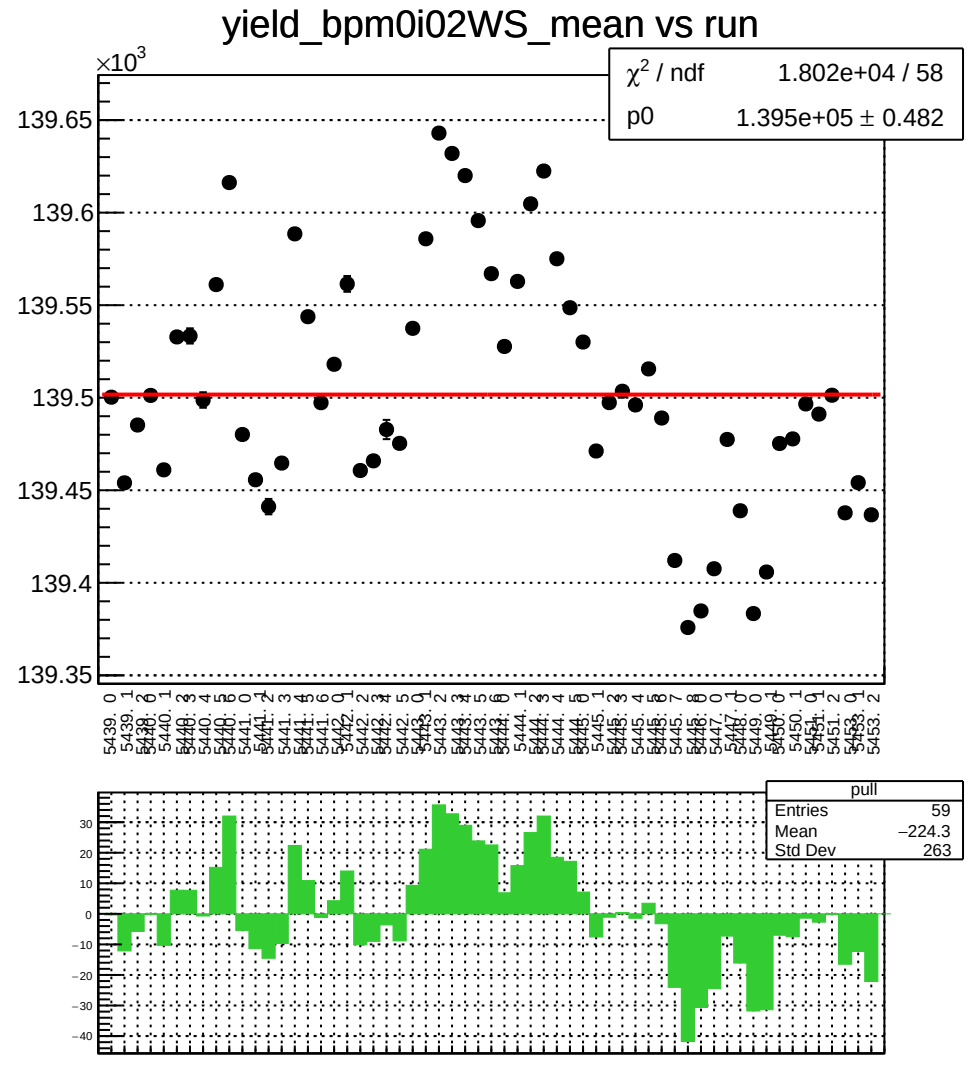

pull1D
Entries 59
Mean 1.652
Std Dev 3.809
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

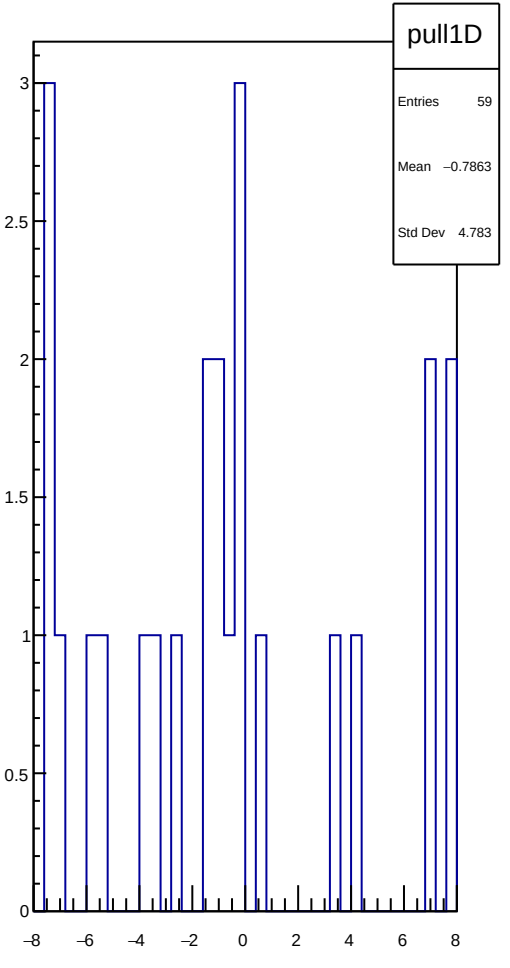

yield_bpm0r03WS_rms vs run
χ² / ndf 9322 / 58
p0 463.6 ± 0.4289
1300
1200
1100
1000
900
800
700
600
500
400

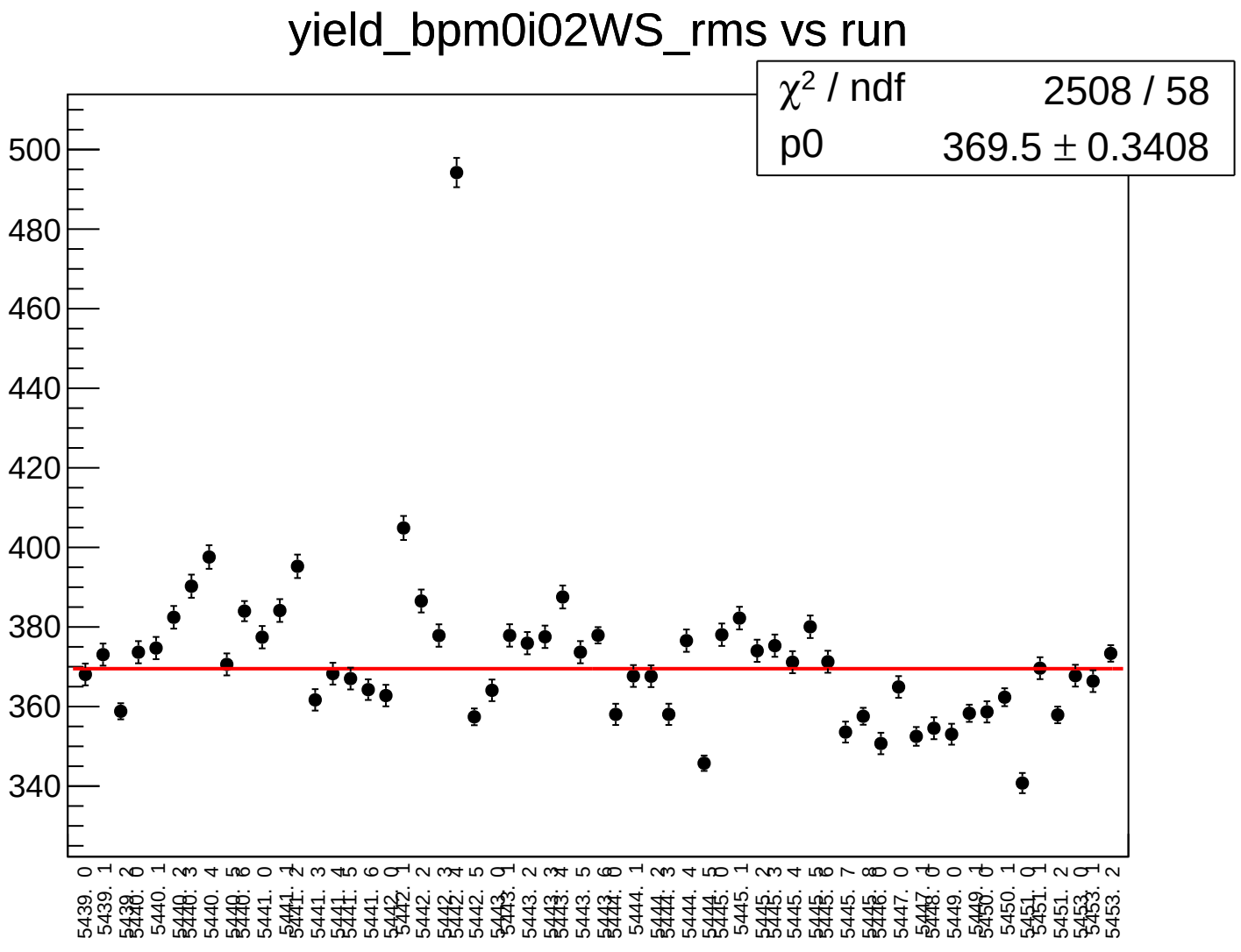

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.831e+05 / 58
p0 1.351e+05 ± 0.482
135.5
135.4
135.3
135.2
135.1
135
134.9
134.8
pull
Entries 59
Mean 2.522e+04
Std Dev 2.52e+04
140
120
100
80
60
40
20
0
−20
−40
−60
−80

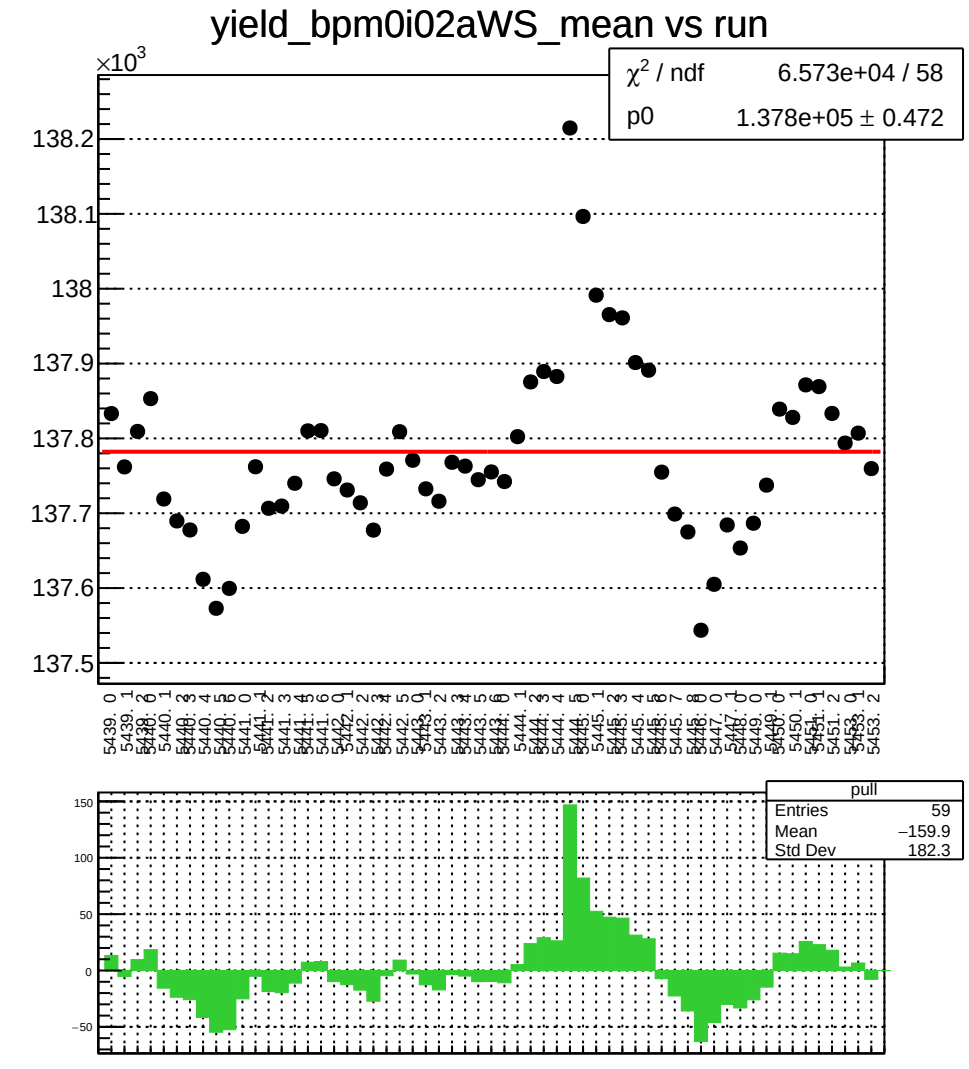

pull1D
Entries 59
Mean −4.814
Std Dev 0.5392
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

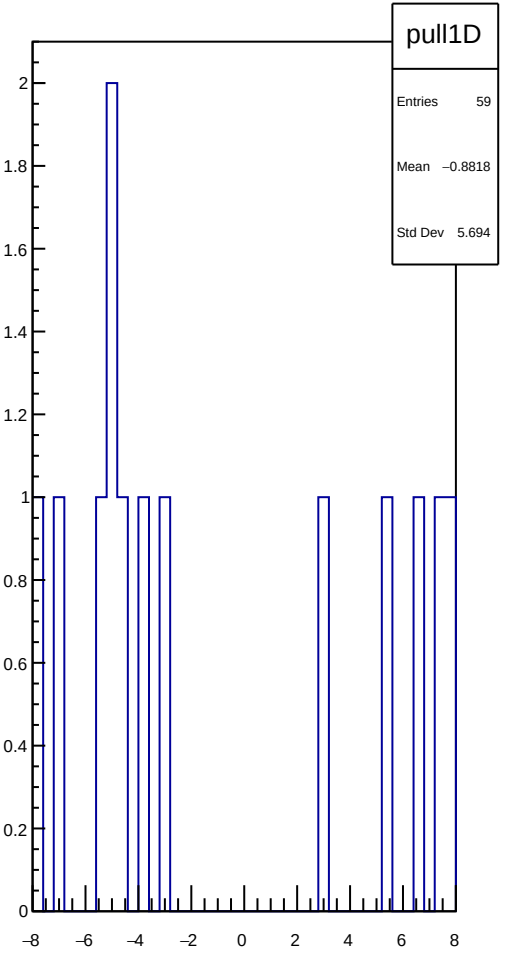

yield_bpm0r05WS_rms vs run
χ² / ndf 4927 / 58
p0 369.2 ± 0.3408
550
500
450
400
350

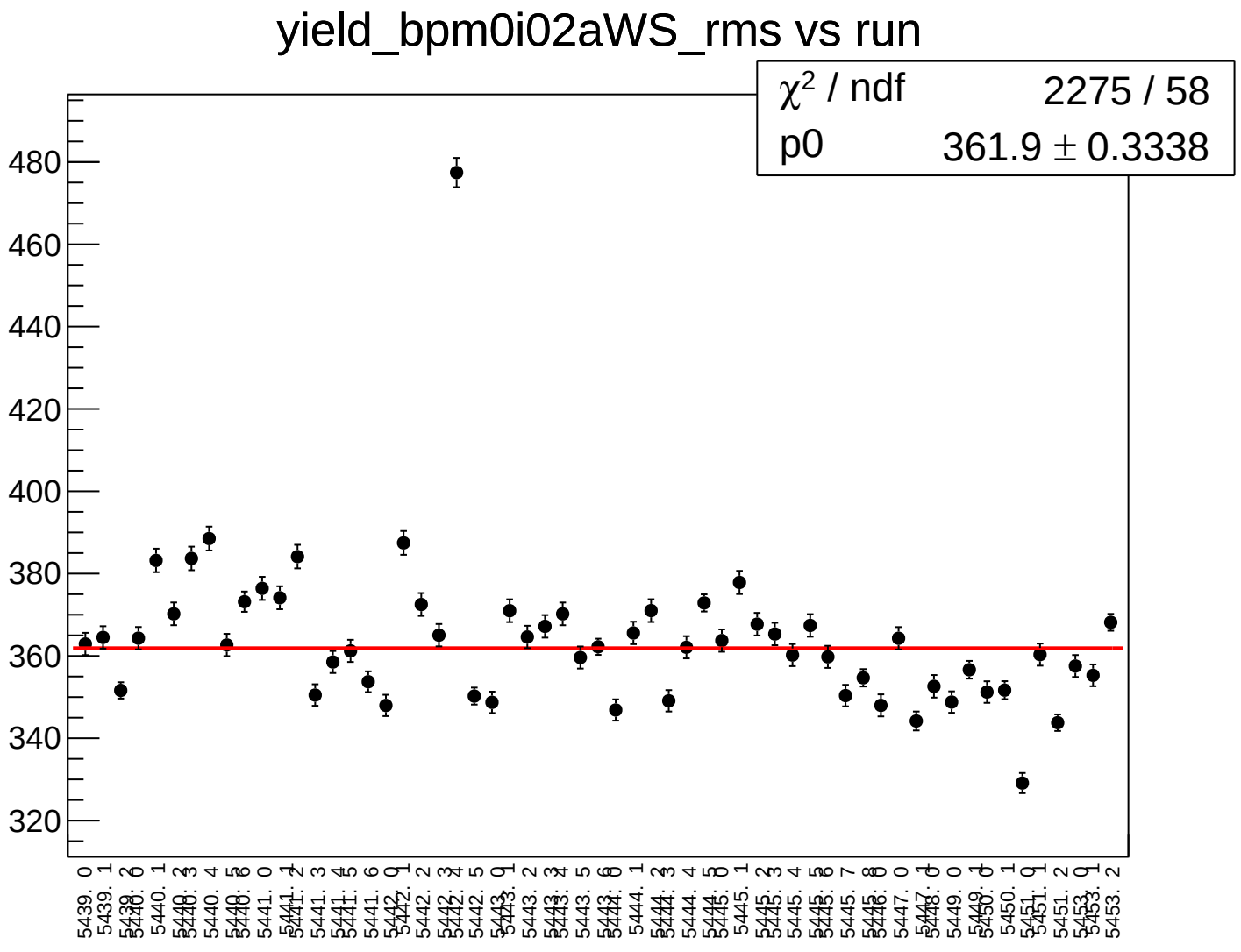

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.802e+04 / 58
p0 1.395e+05 ± 0.482
139.65
139.6
139.55
139.5
139.45
139.4
139.35
pull
Entries 59
Mean −224.3
Std Dev 263
30
20
10
0
−10
−20
−30
−40

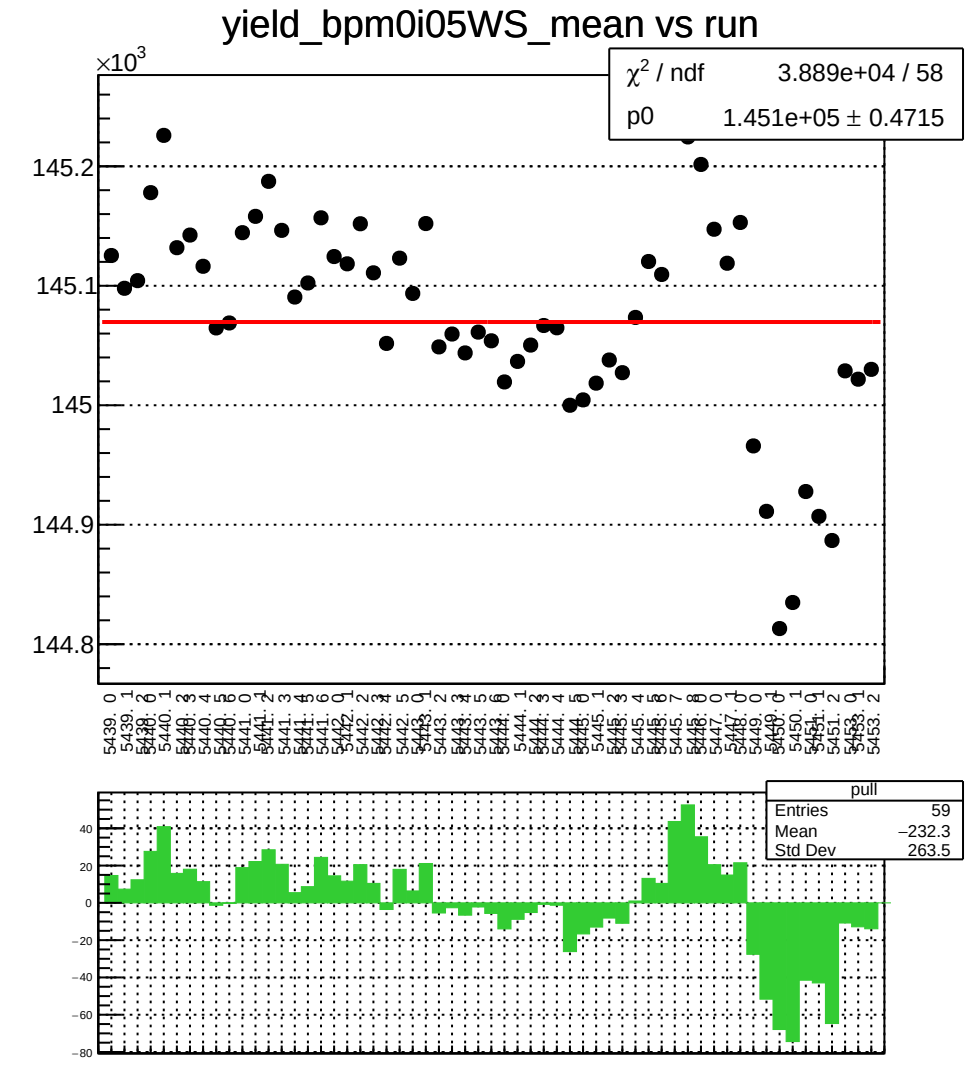

pull1D
Entries 59
Mean −0.7863
Std Dev 4.783
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

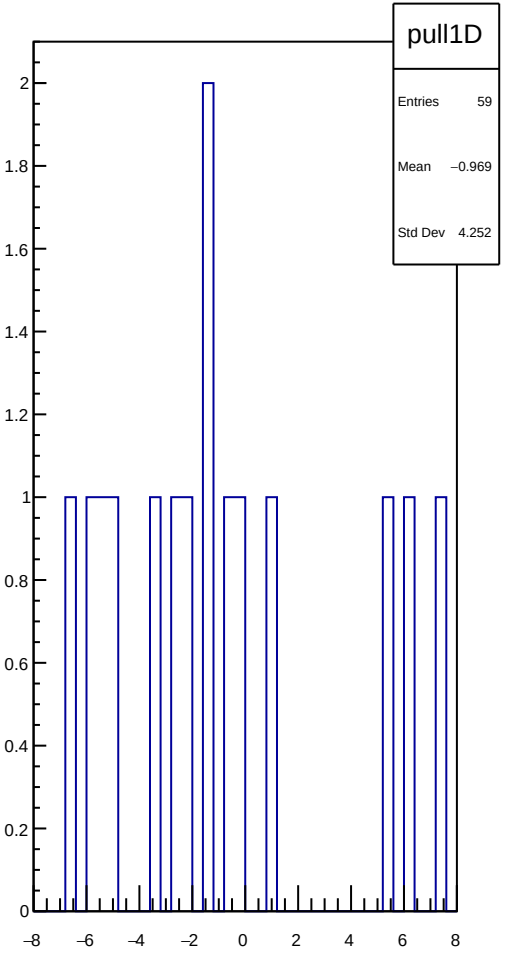

yield_bpm0i02WS_rms vs run
χ² / ndf 2508 / 58
p0 369.5 ± 0.3408
500
480
460
440
420
400
380
360
340
5439. 0
5439. 1
5439. 2
5439. 6
5440. 1
5440. 2
5440. 3
5440. 4
5440. 5
5440. 6
5441. 0
5441. 1
5441. 2
5441. 3
5441. 4
5441. 5
5441. 6
5442. 0
5442. 1
5442. 2
5442. 3
5442. 4
5442. 5
5443. 0
5443. 1
5443. 2
5443. 3
5443. 4
5443. 5
5443. 6
5444. 0
5444. 1
5444. 2
5444. 3
5444. 4
5444. 5
5445. 0
5445. 1
5445. 2
5445. 3
5445. 4
5445. 5
5445. 6
5445. 7
5445. 8
5446. 0
5447. 0
5447. 1
5448. 0
5449. 0
5449. 1
5450. 0
5450. 1
5451. 0
5451. 1
5451. 2
5453. 0
5453. 1
5453. 2

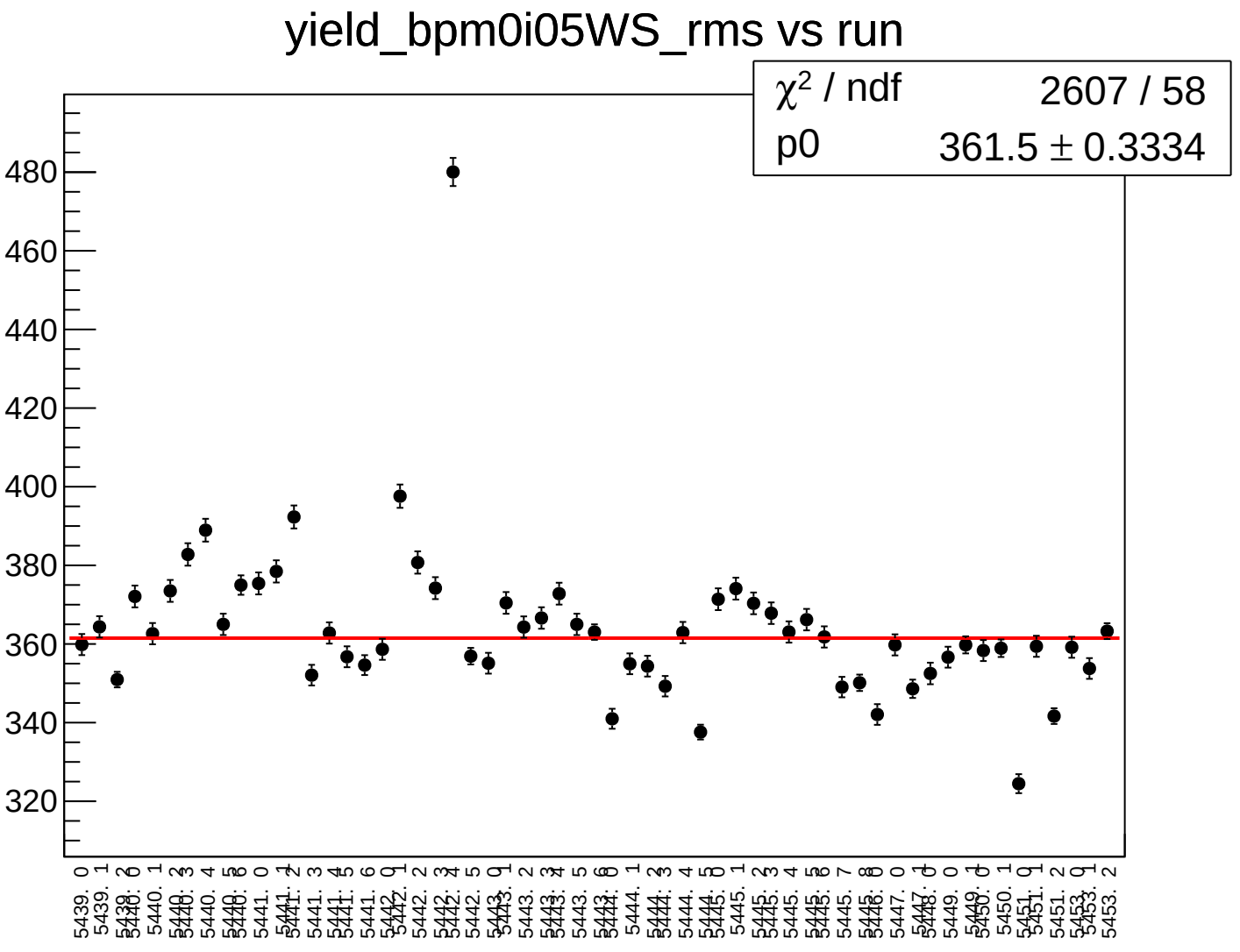

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 6.573e+04 / 58
p0 1.378e+05 ± 0.472
138.2
138.1
138
137.9
137.8
137.7
137.6
137.5
pull
Entries 59
Mean −159.9
Std Dev 182.3
150
100
50
0
−50

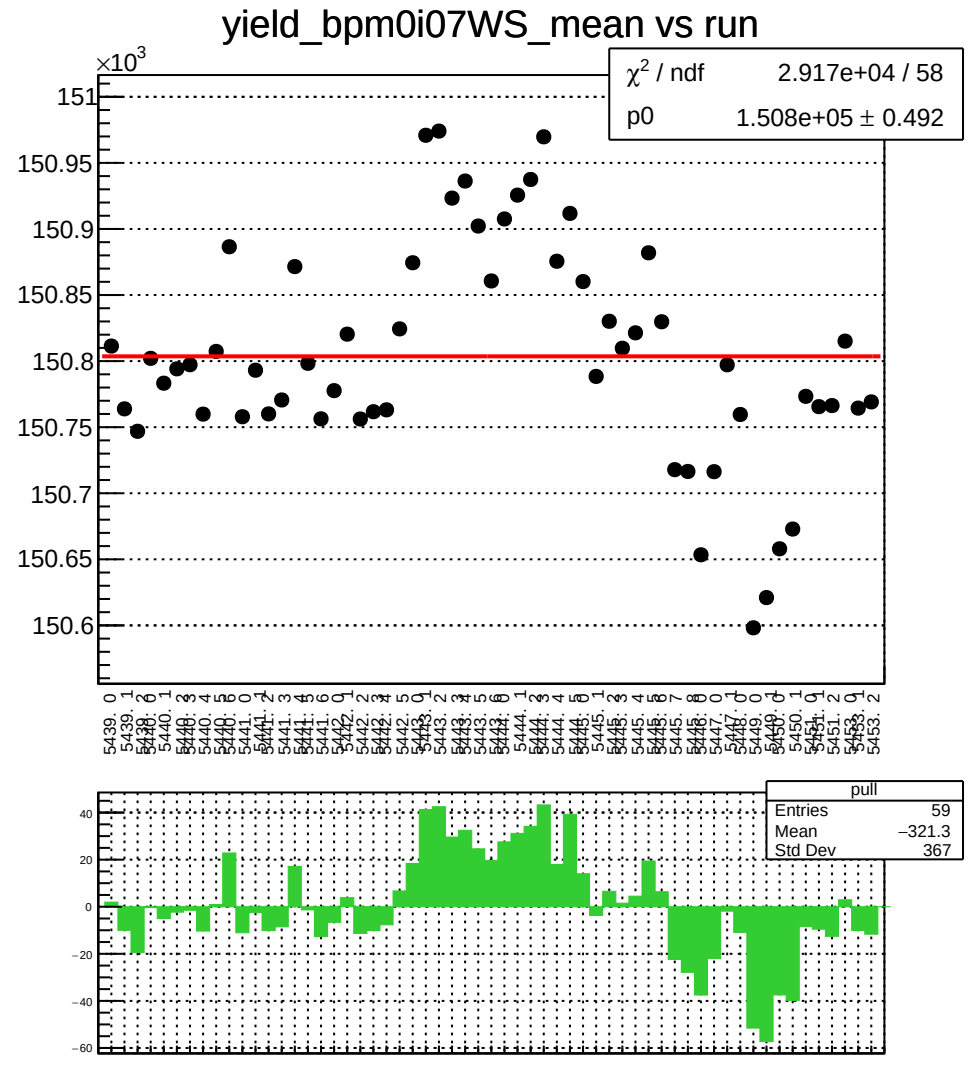

pull1D
Entries 59
Mean −0.8818
Std Dev 5.694
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

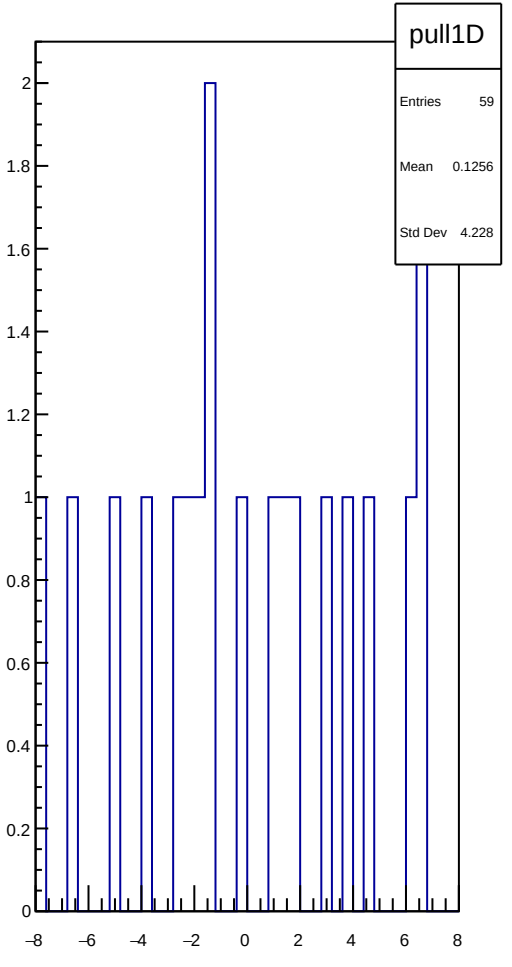

yield_bpm0i02aWS_rms vs run
χ² / ndf 2275 / 58
p0 361.9 ± 0.3338
480
460
440
420
400
380
360
340
320

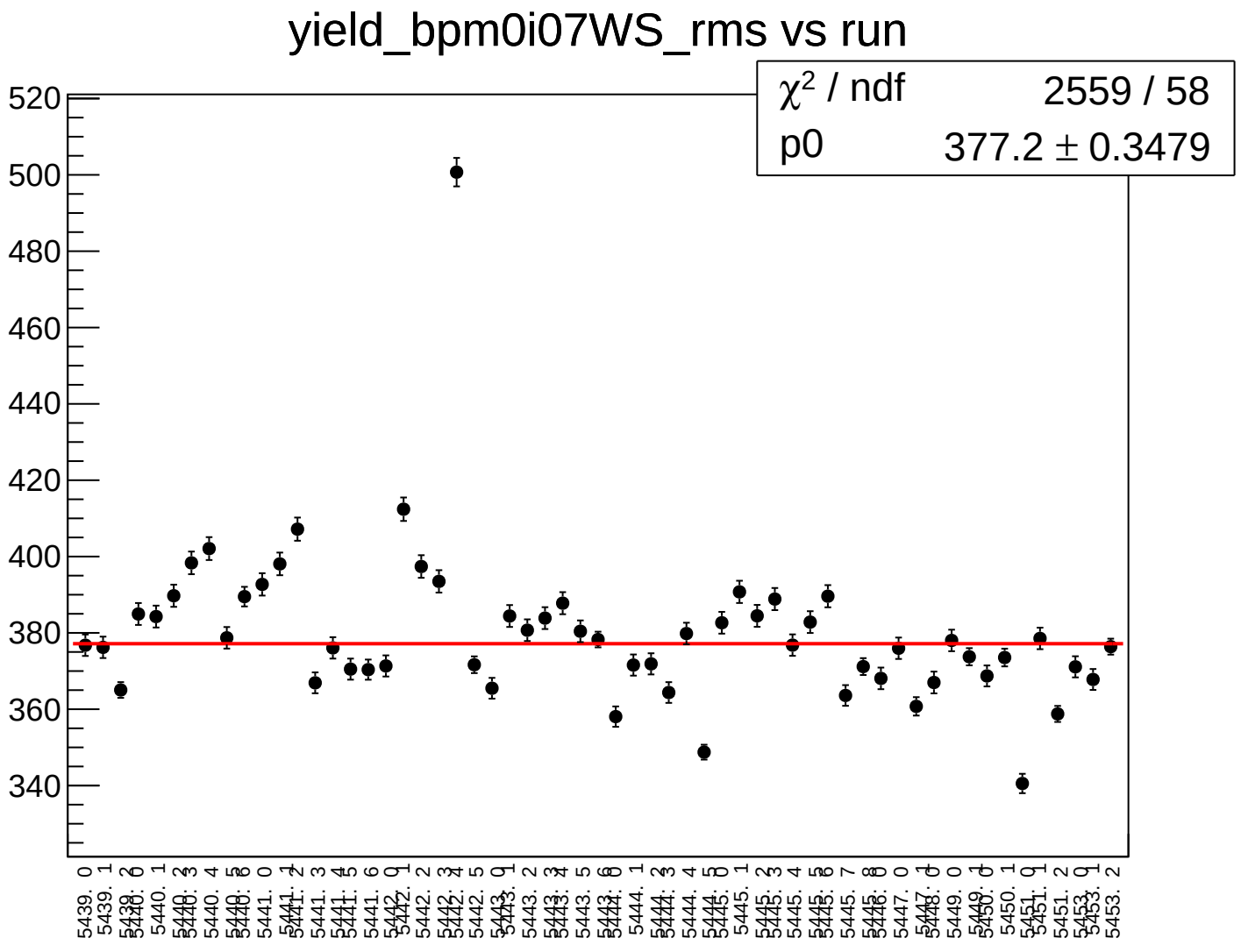

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 3.889e+04 / 58
p0 1.451e+05 ± 0.4715
145.2
145.1
145
144.9
144.8
pull
Entries 59
Mean −232.3
Std Dev 263.5
40
20
0
−20
−40
−60
−80

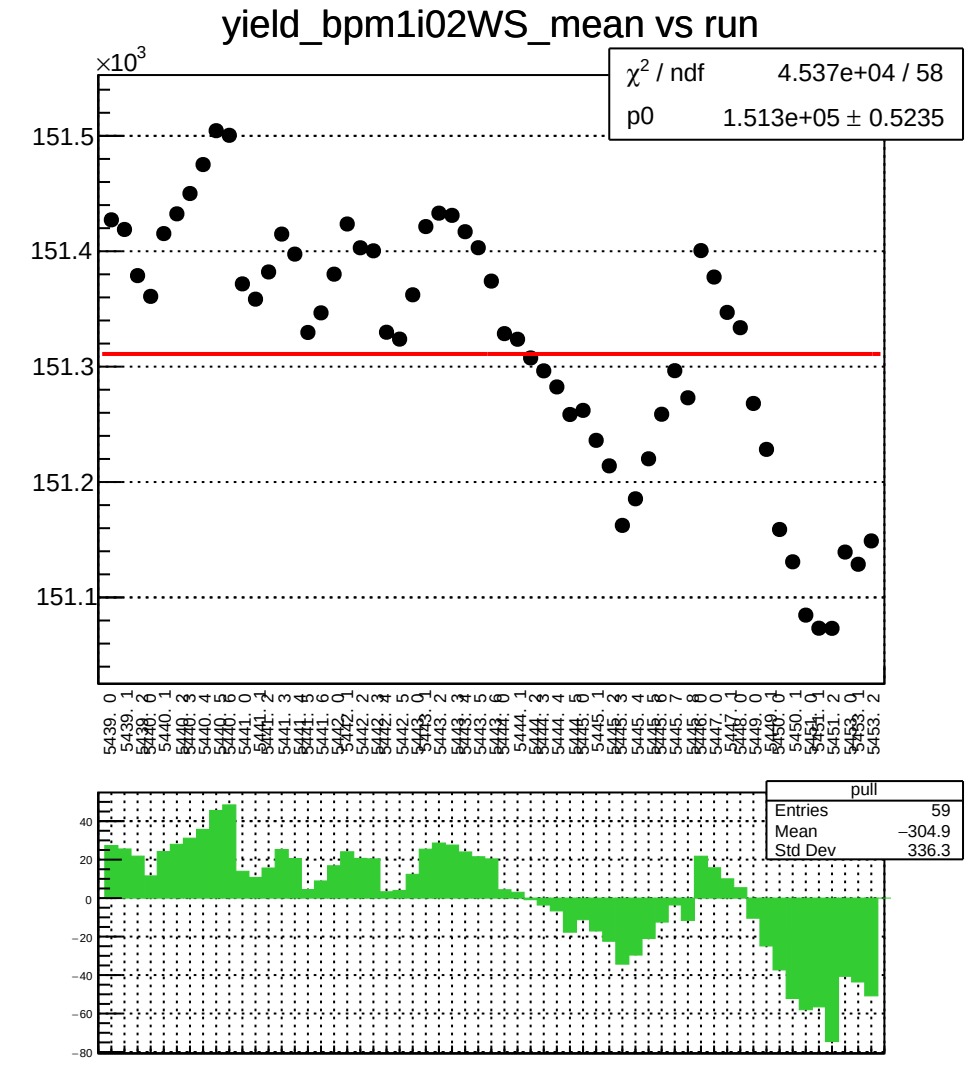

pull1D
Entries 59
Mean −0.969
Std Dev 4.252
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

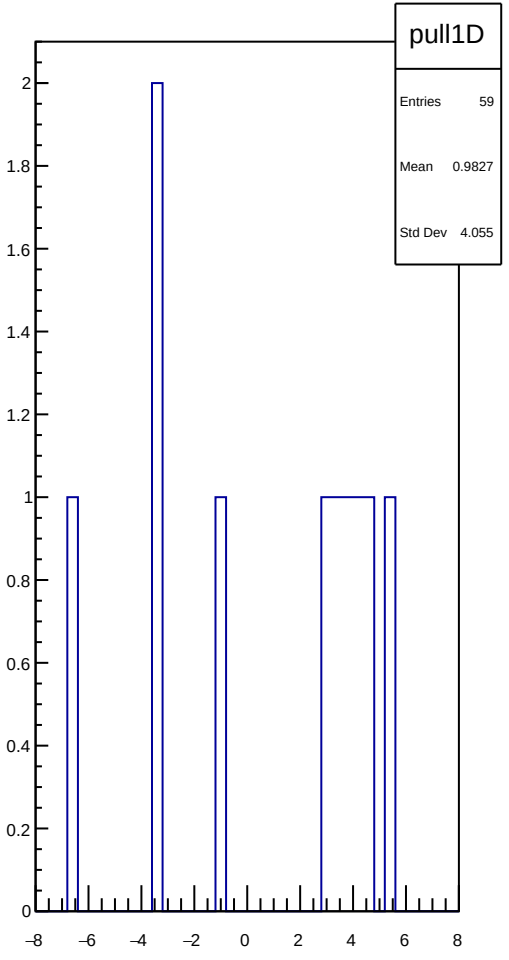

yield_bpm0i05WS_rms vs run
χ² / ndf 2607 / 58
p0 361.5 ± 0.3334
480
460
440
420
400
380
360
340
320

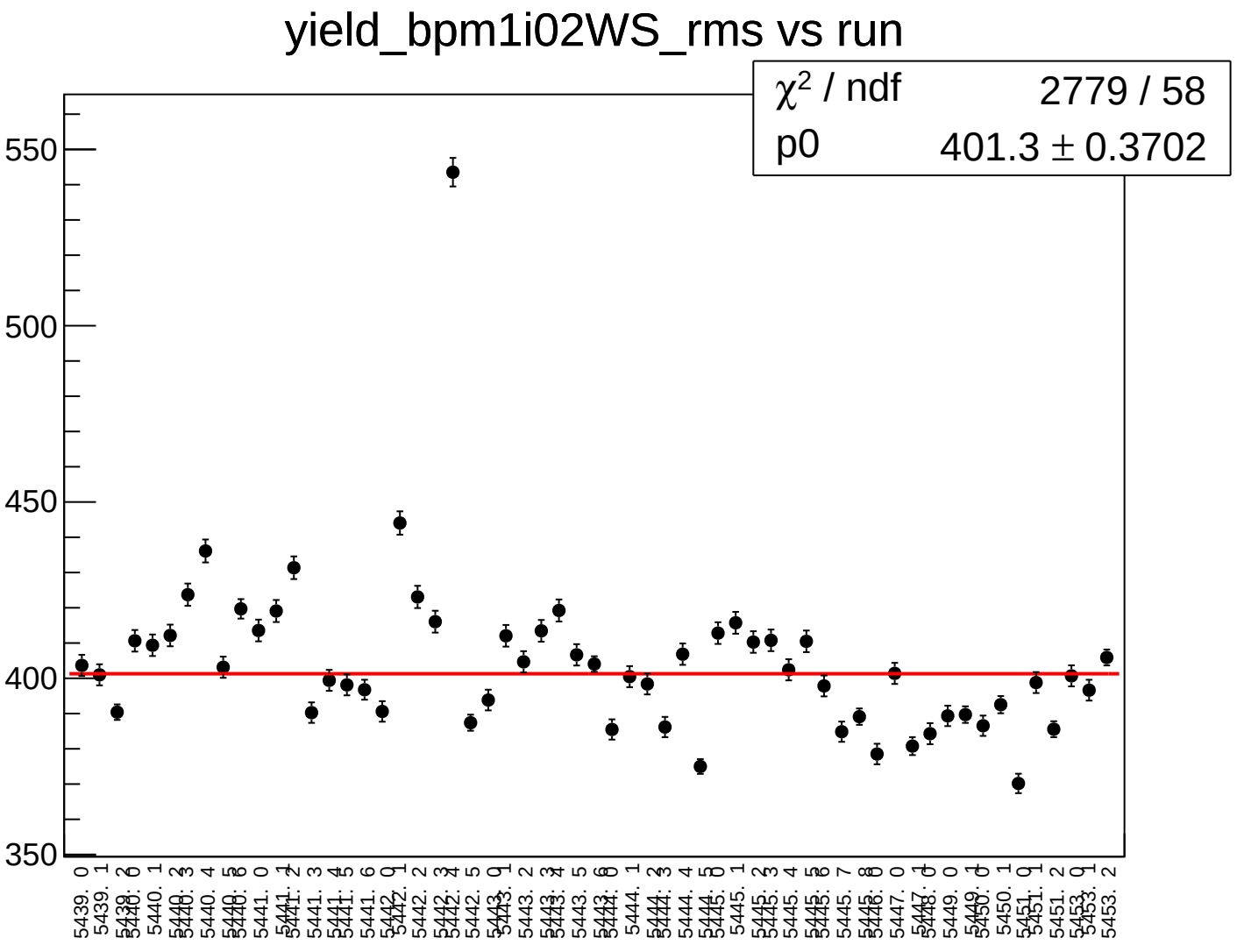

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 2.917e+04 / 58
p0 1.508e+05 ± 0.492
151
150.95
150.9
150.85
150.8
150.75
150.7
150.65
150.6
pull
Entries 59
Mean −321.3
Std Dev 367
40
20
0
−20
−40
−60

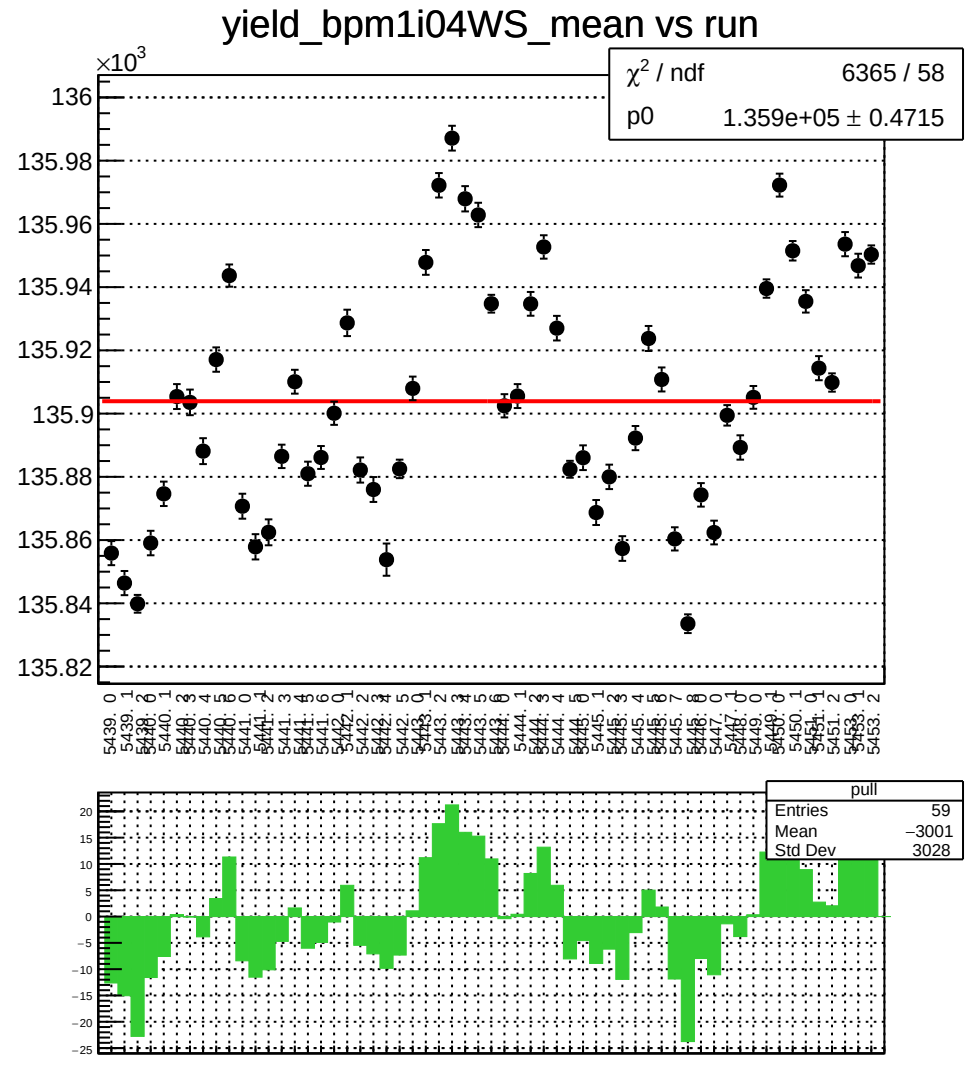

pull1D
Entries 59
Mean 0.1256
Std Dev 4.228
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

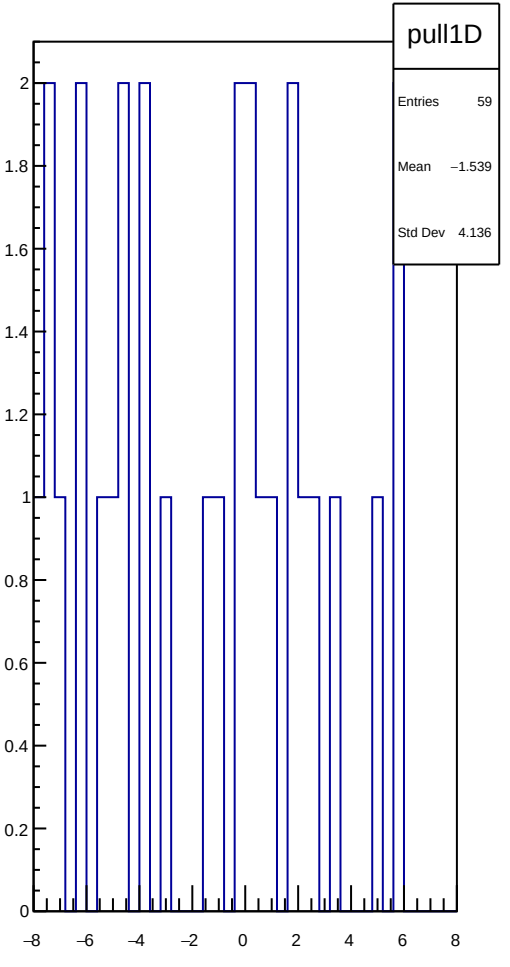

yield_bpm0i07WS_rms vs run
χ² / ndf 2559 / 58
p0 377.2 ± 0.3479
520
500
480
460
440
420
400
380
360
340

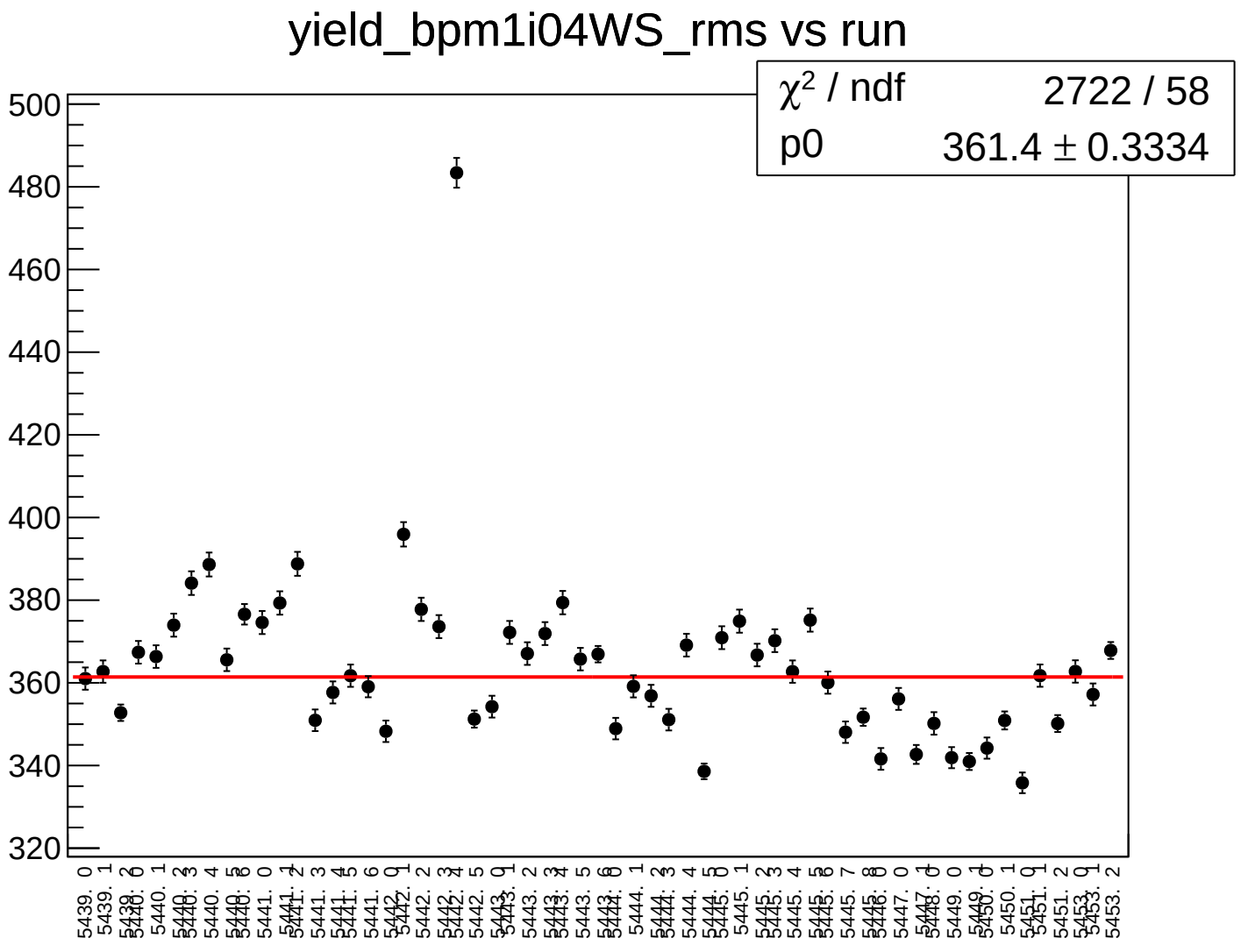

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 4.537e+04 / 58
p0 1.513e+05 ± 0.5235
151.5
151.4
151.3
151.2
151.1
pull
Entries 59
Mean −304.9
Std Dev 336.3
40
20
0
−20
−40
−60
−80

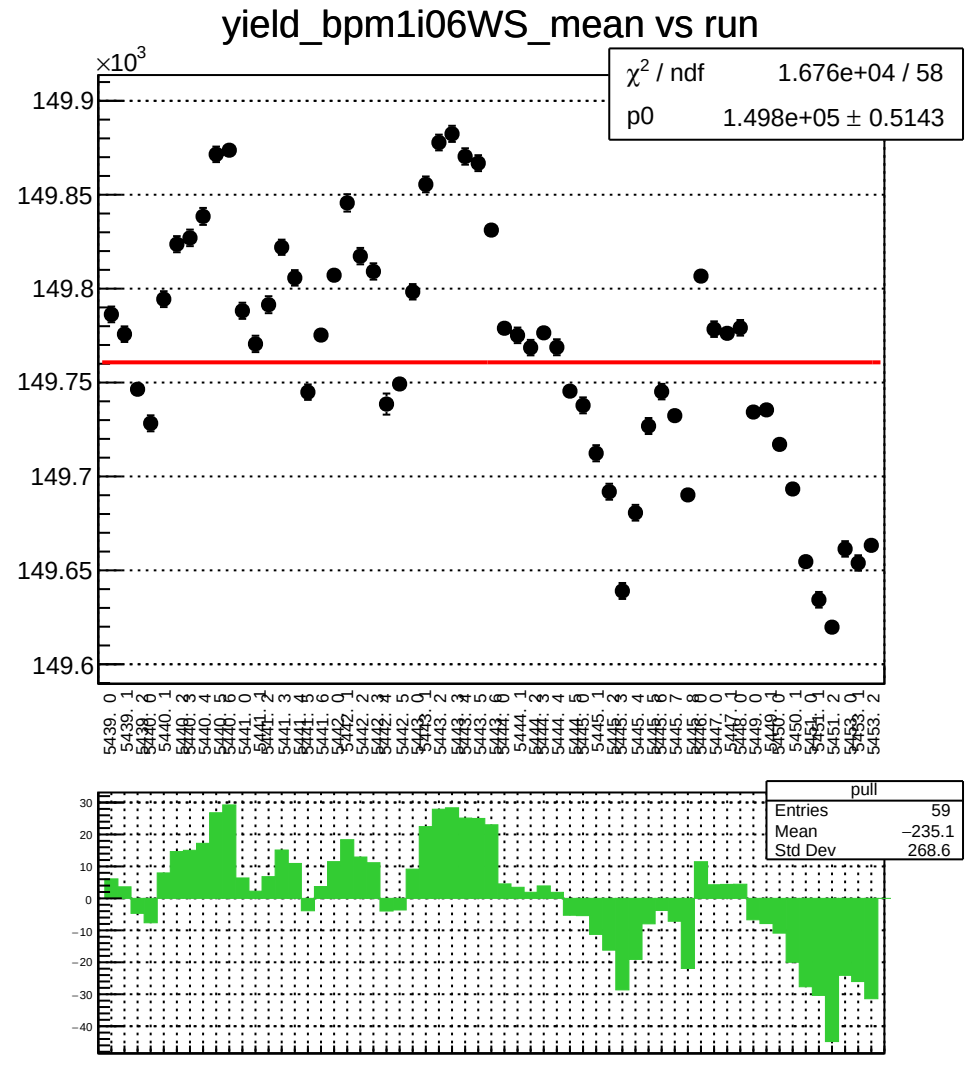

pull1D
Entries 59
Mean 0.9827
Std Dev 4.055
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

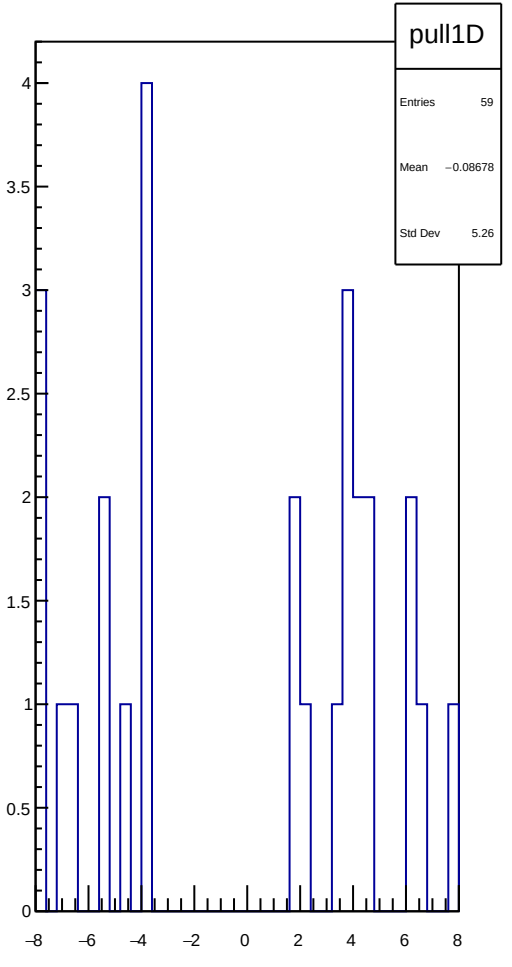

yield_bpm1i02WS_rms vs run
χ² / ndf 2779 / 58
p0 401.3 ± 0.3702
550
500
450
400
350

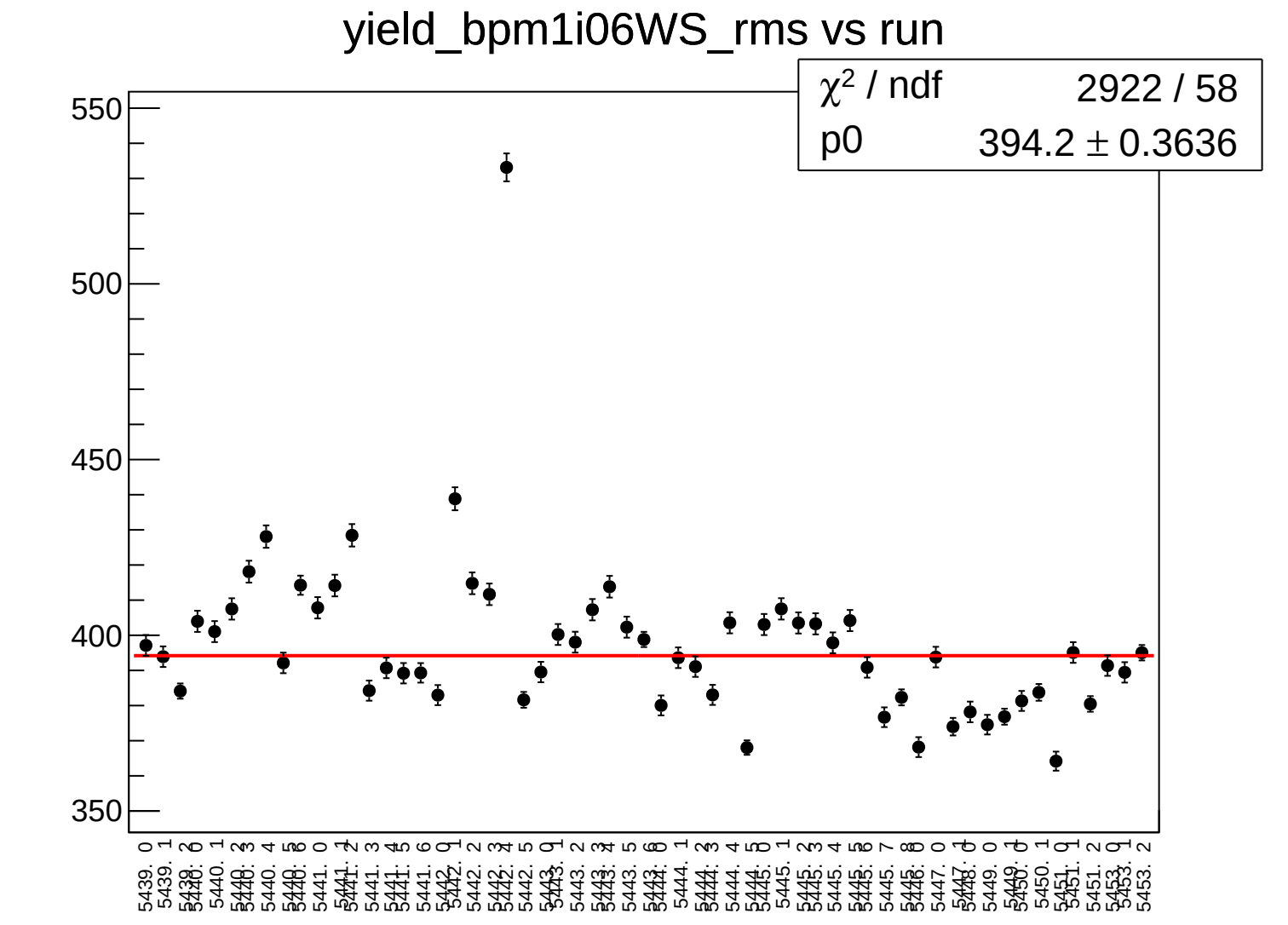

yield_bpm1i04WS_mean vs run
χ² / ndf 6365 / 58
p0 1.359e+05 ± 0.4715
×10³
136
135.98
135.96
135.94
135.92
135.9
135.88
135.86
135.84
135.82
pull
Entries 59
Mean −3001
Std Dev 3028
20
15
10
5
0
−5
−10
−15
−20
−25

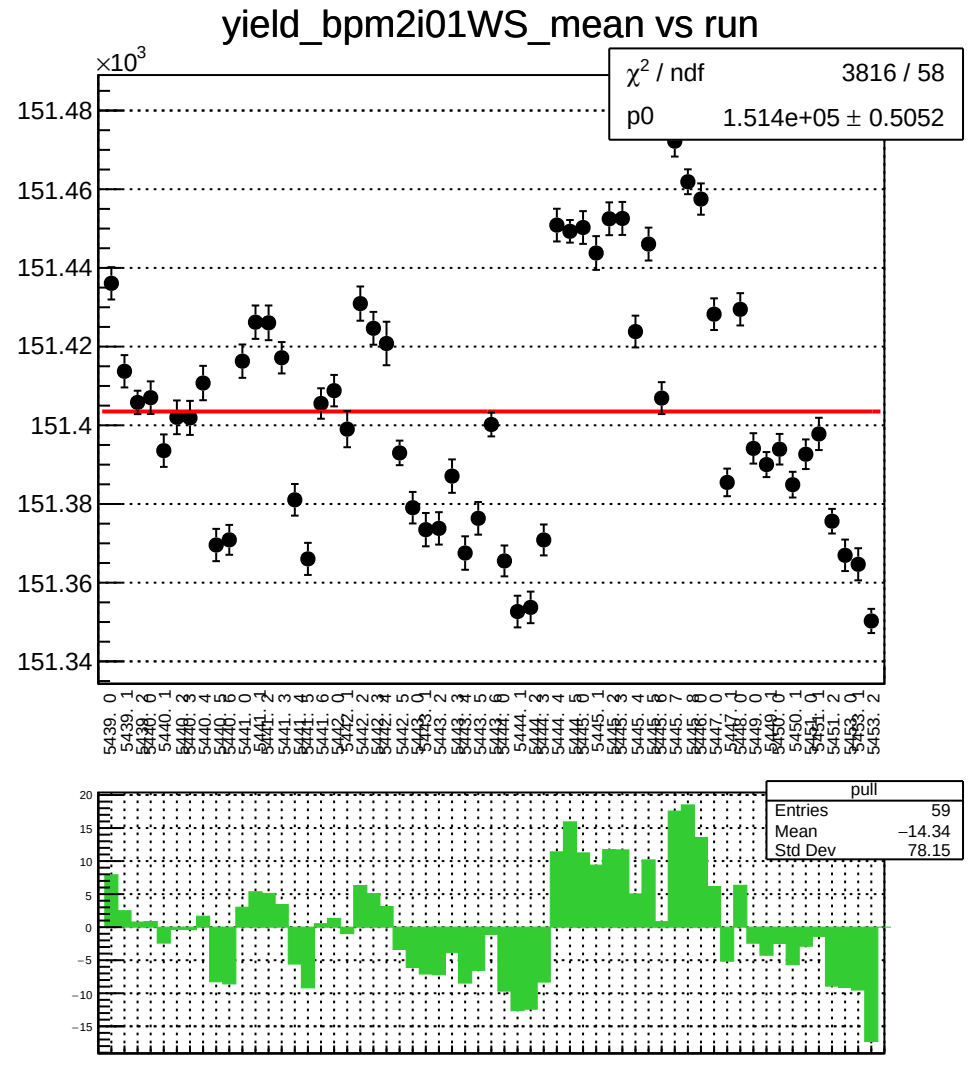

pull1D
Entries 59
Mean −1.539
Std Dev 4.136
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

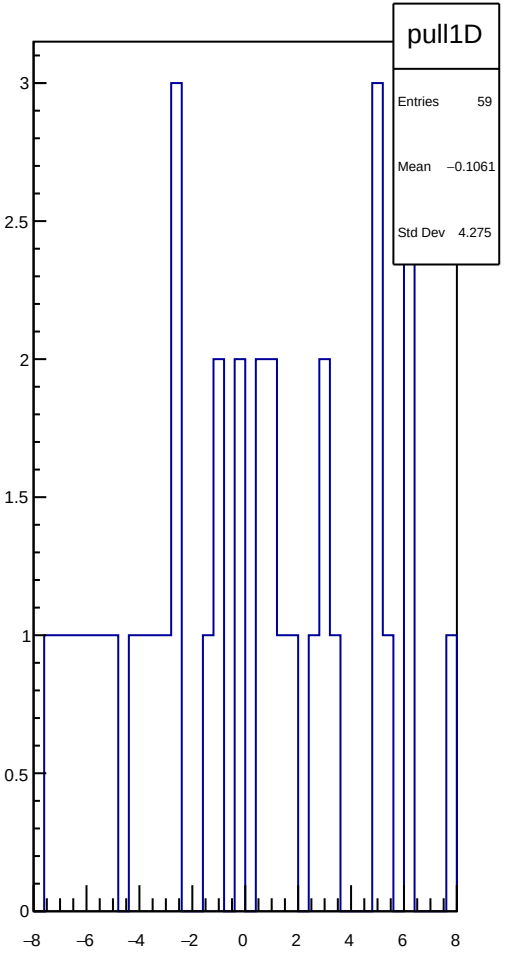

yield_bpm1i04WS_rms vs run
χ² / ndf 2722 / 58
p0 361.4 ± 0.3334
500
480
460
440
420
400
380
360
340
320

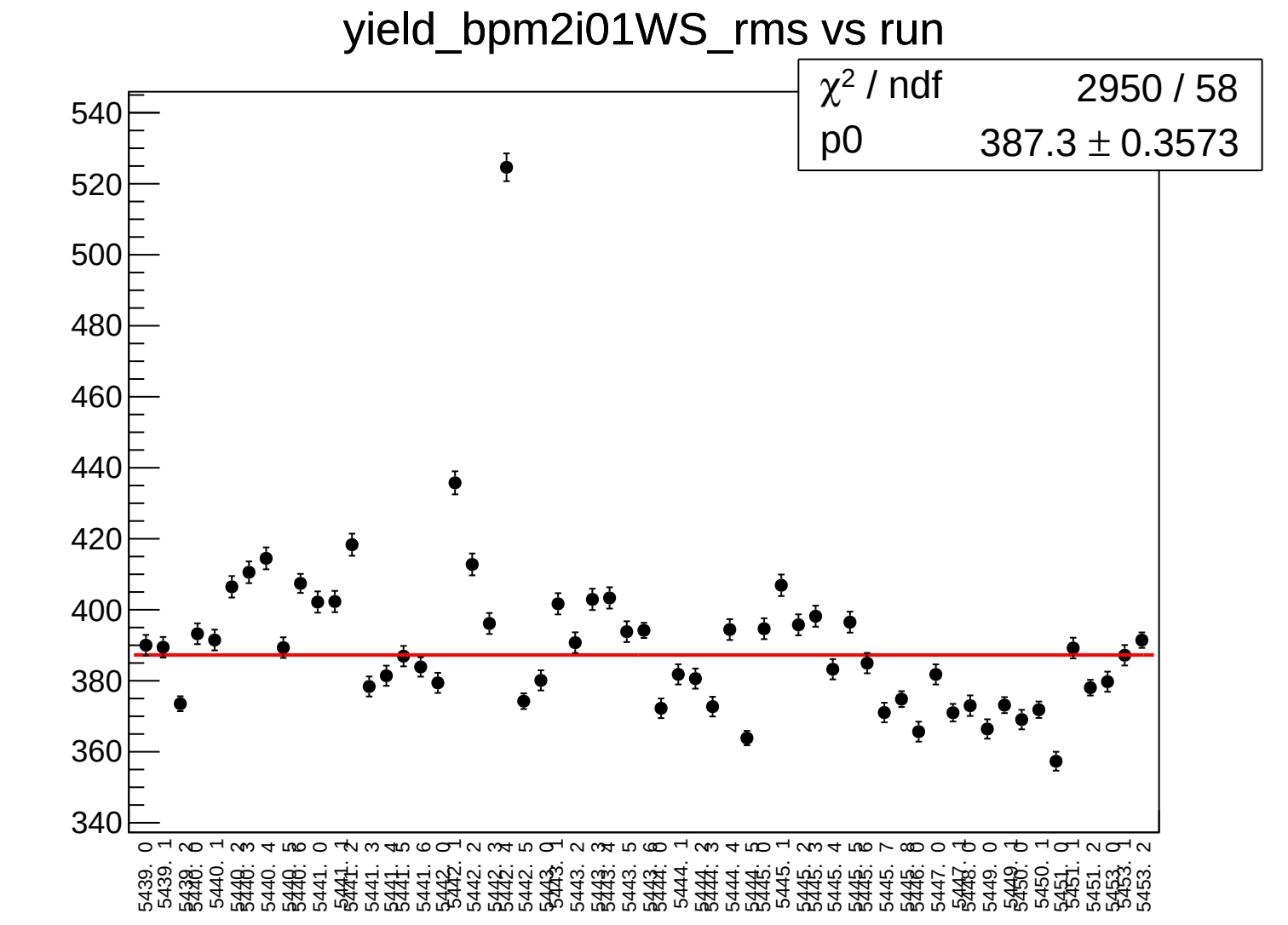

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.676e+04 / 58
p0 1.498e+05 ± 0.5143
149.9
149.85
149.8
149.75
149.7
149.65
149.6
pull
Entries 59
Mean −235.1
Std Dev 268.6
30
20
10
0
−10
−20
−30
−40

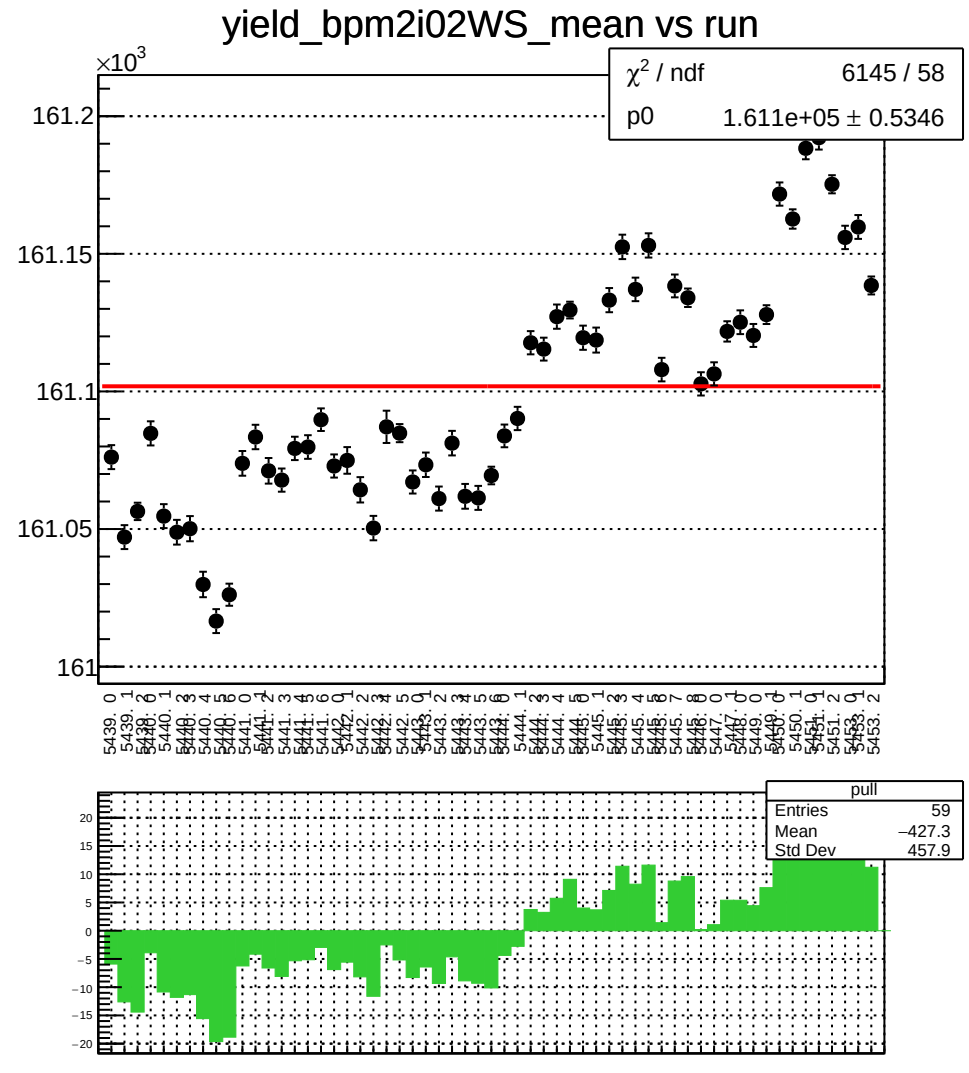

pull1D
Entries 59
Mean −0.08678
Std Dev 5.26
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

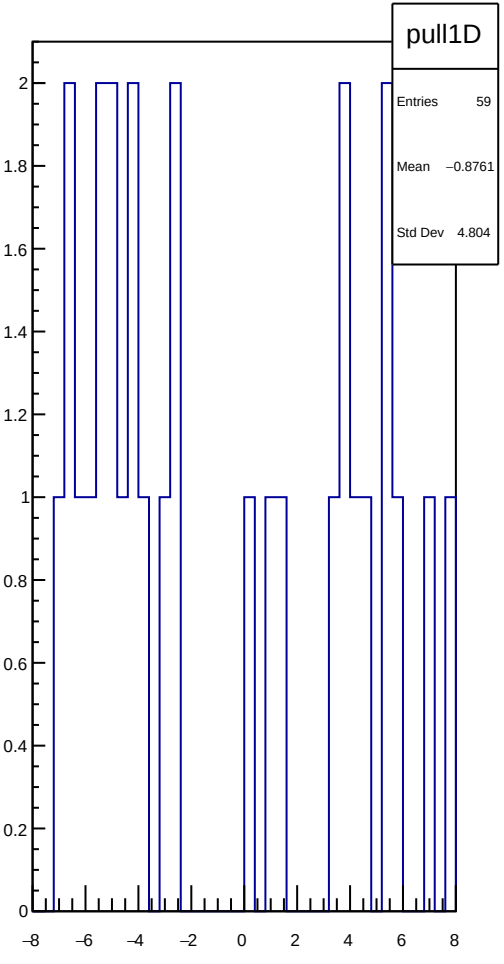

yield_bpm1i06WS_rms vs run
χ² / ndf 2922 / 58
p0 394.2 ± 0.3636
550
500
450
400
350

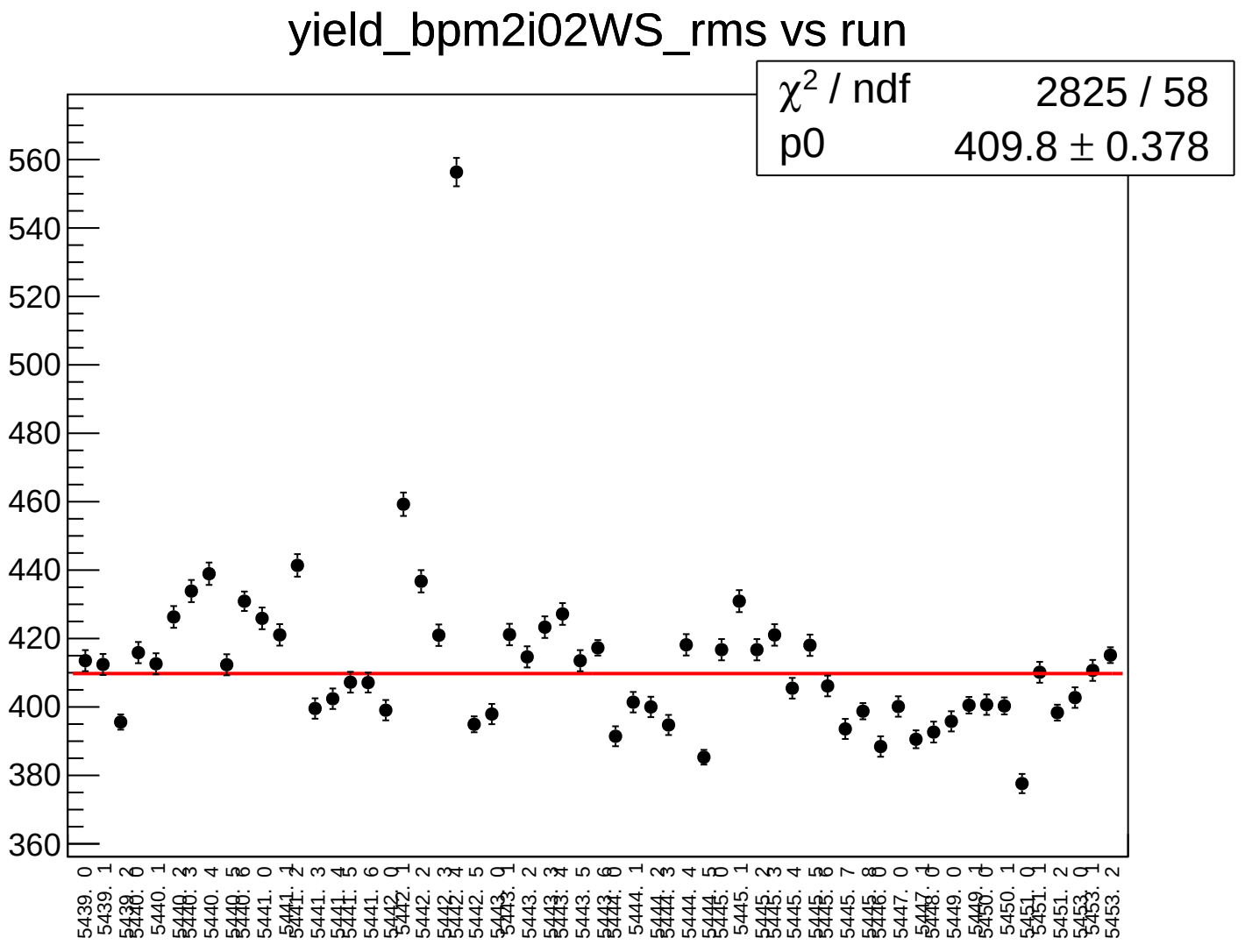

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3816 / 58
p0 1.514e+05 ± 0.5052
151.48
151.46
151.44
151.42
151.4
151.38
151.36
151.34
pull
Entries 59
Mean −14.34
Std Dev 78.15
20
15
10
5
0
−5
−10
−15

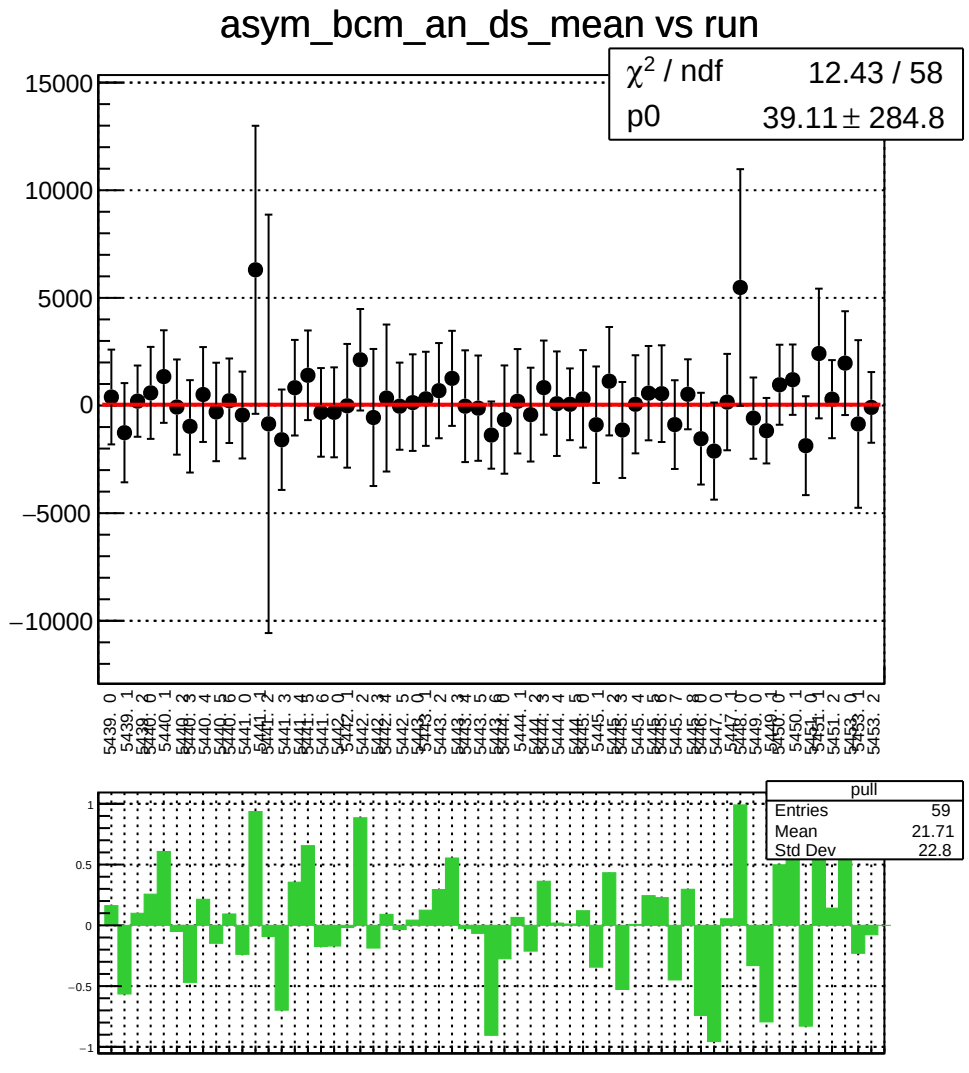

pull1D
Entries 59
Mean −0.1061
Std Dev 4.275
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

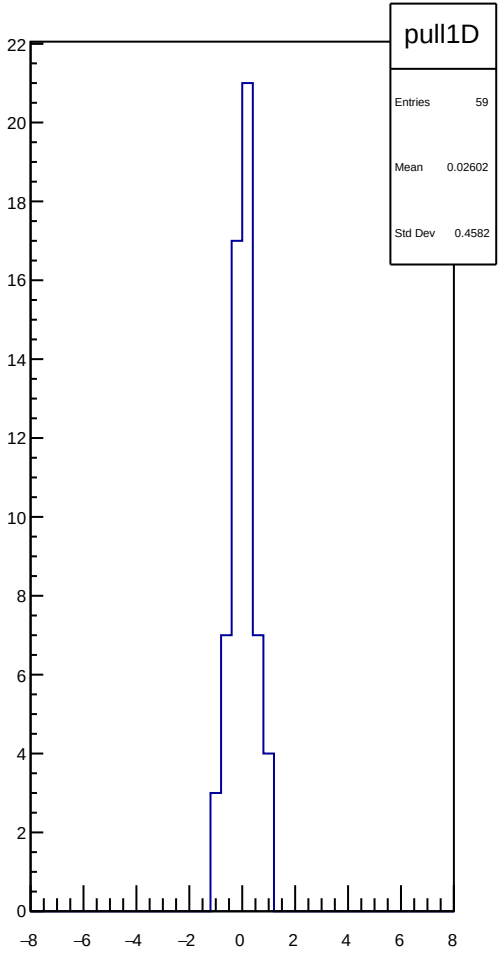

yield_bpm2i01WS_rms vs run
χ² / ndf 2950 / 58
p0 387.3 ± 0.3573
540
520
500
480
460
440
420
400
380
360
340

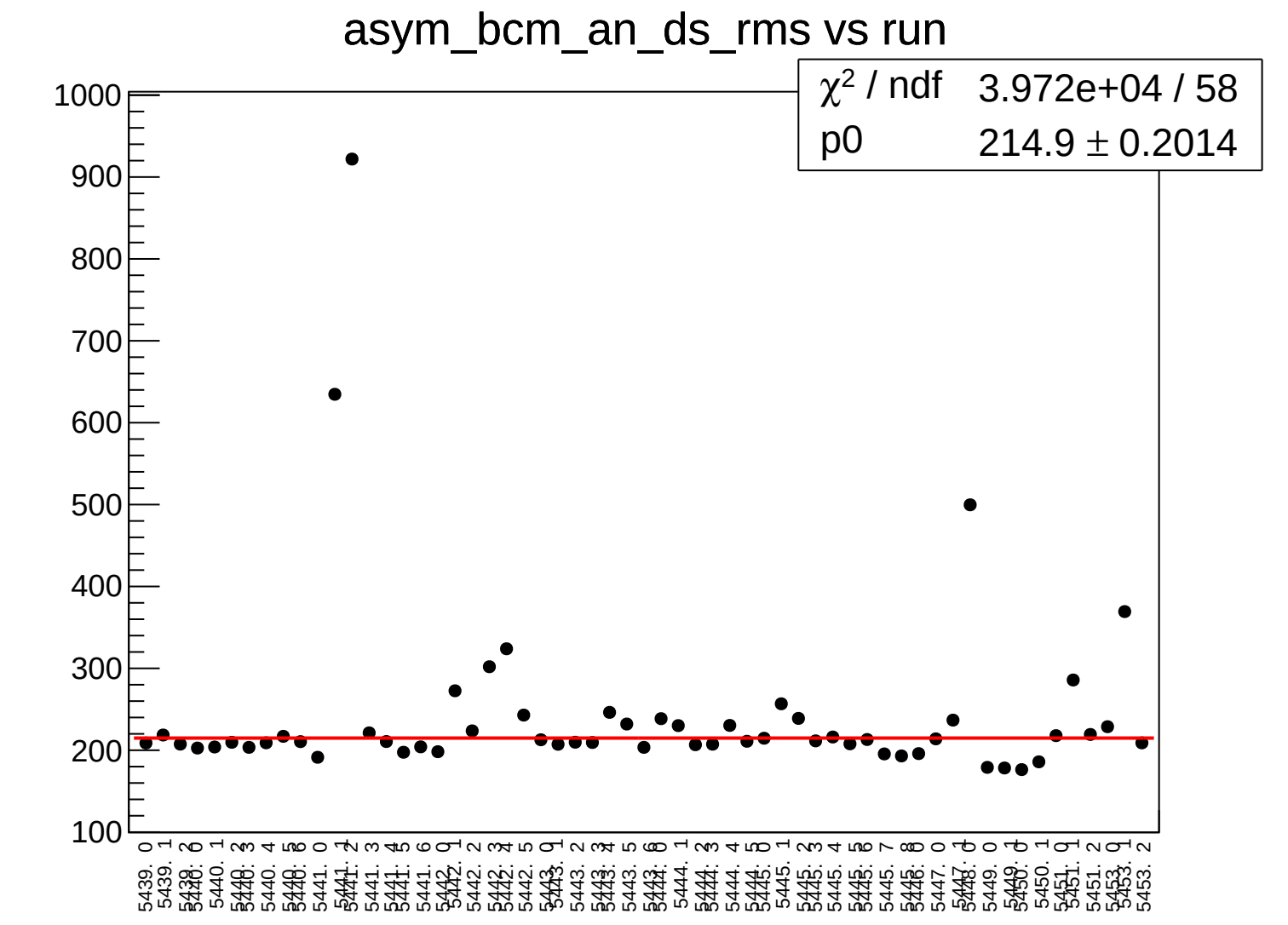

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 6145 / 58
p0 1.611e+05 ± 0.5346
161.2
161.15
161.1
161.05
161
pull
Entries 59
Mean −427.3
Std Dev 457.9
20
15
10
5
0
−5
−10
−15
−20

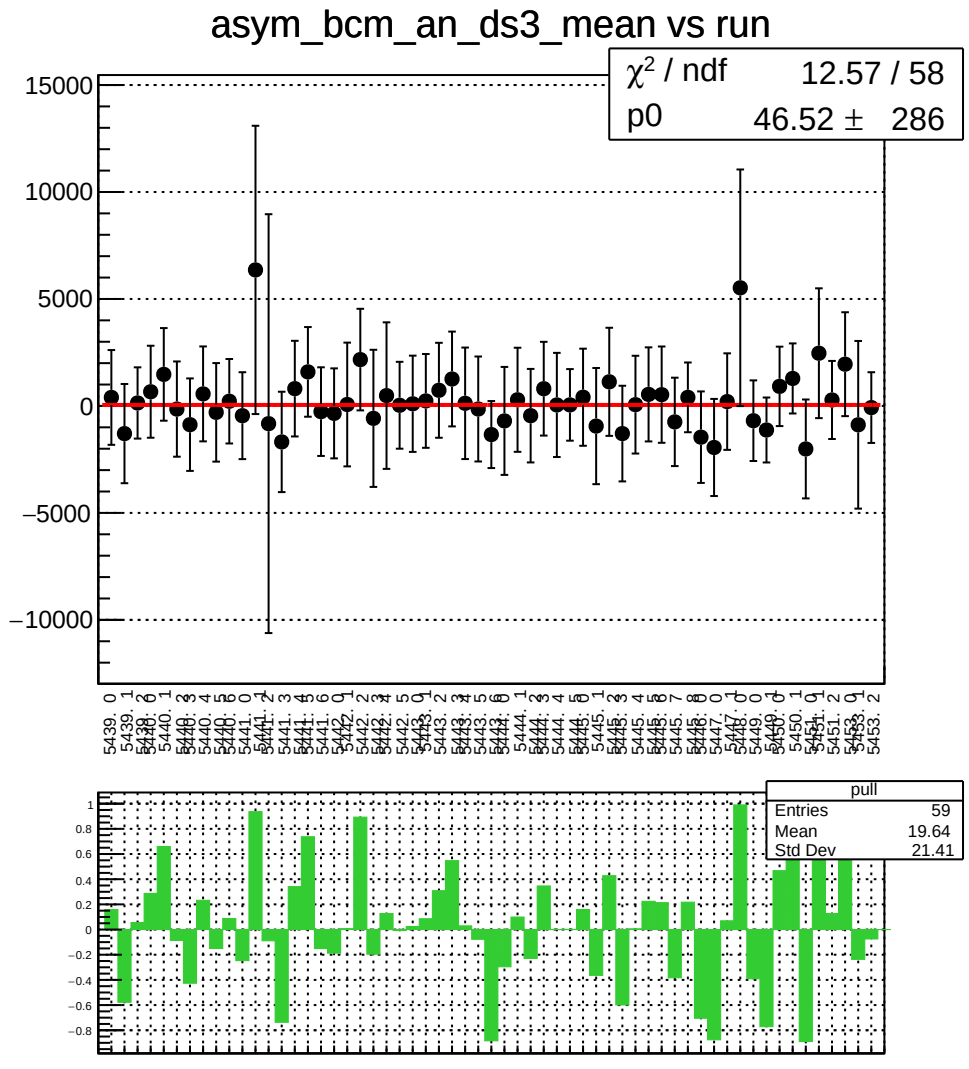

pull1D
Entries 59
Mean −0.8761
Std Dev 4.804
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

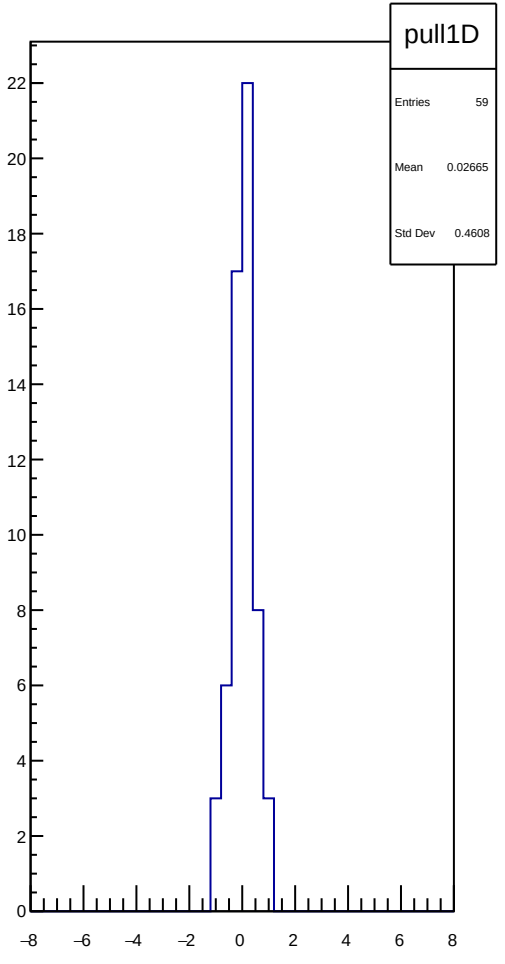

yield_bpm2i02WS_rms vs run
χ² / ndf 2825 / 58
p0 409.8 ± 0.378
560
540
520
500
480
460
440
420
400
380
360

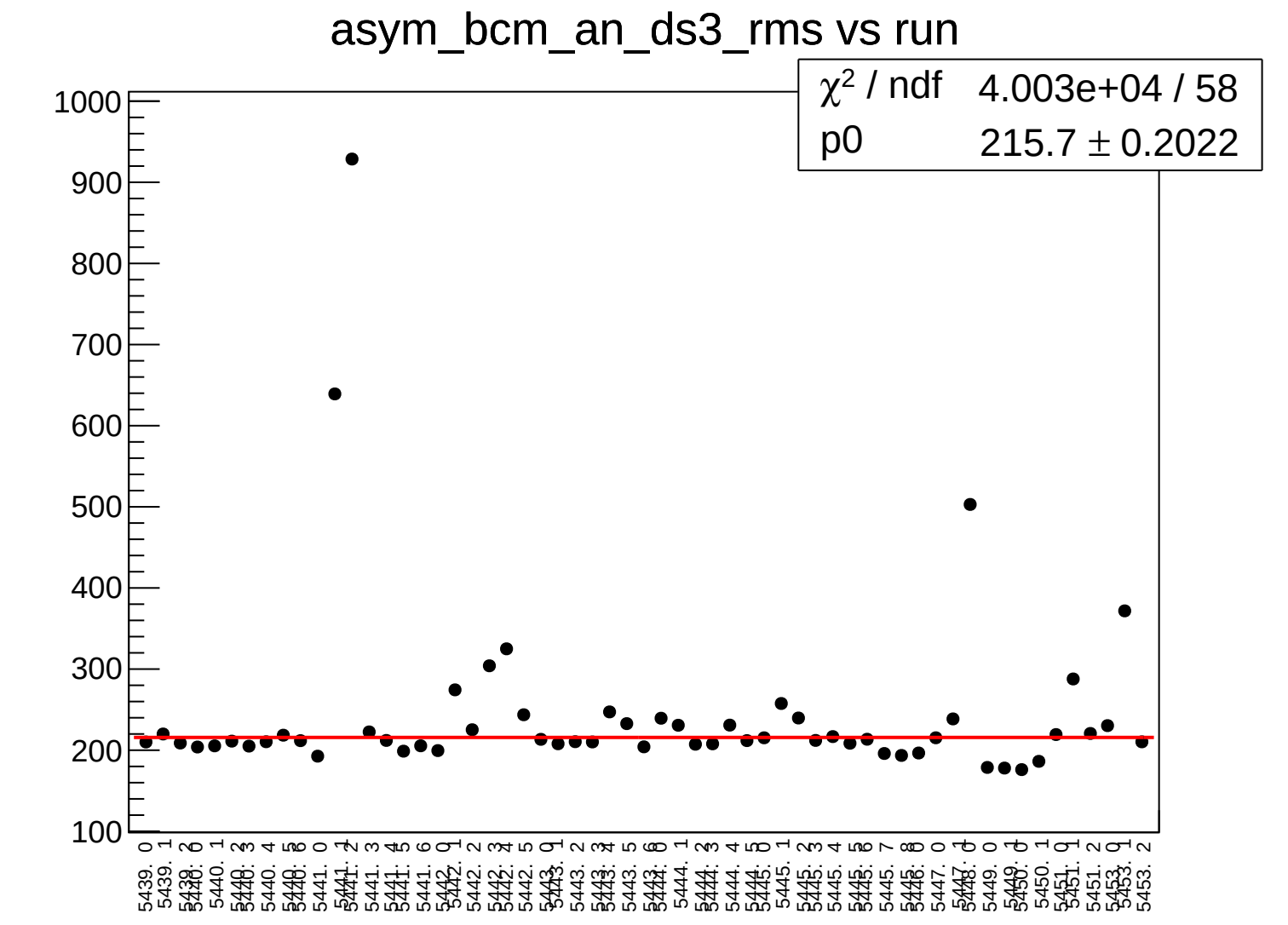

asym_bcm_an_ds_mean vs run
χ² / ndf 12.43 / 58
p0 39.11 ± 284.8
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 21.71
Std Dev 22.8
1
0.5
0
−0.5
−1

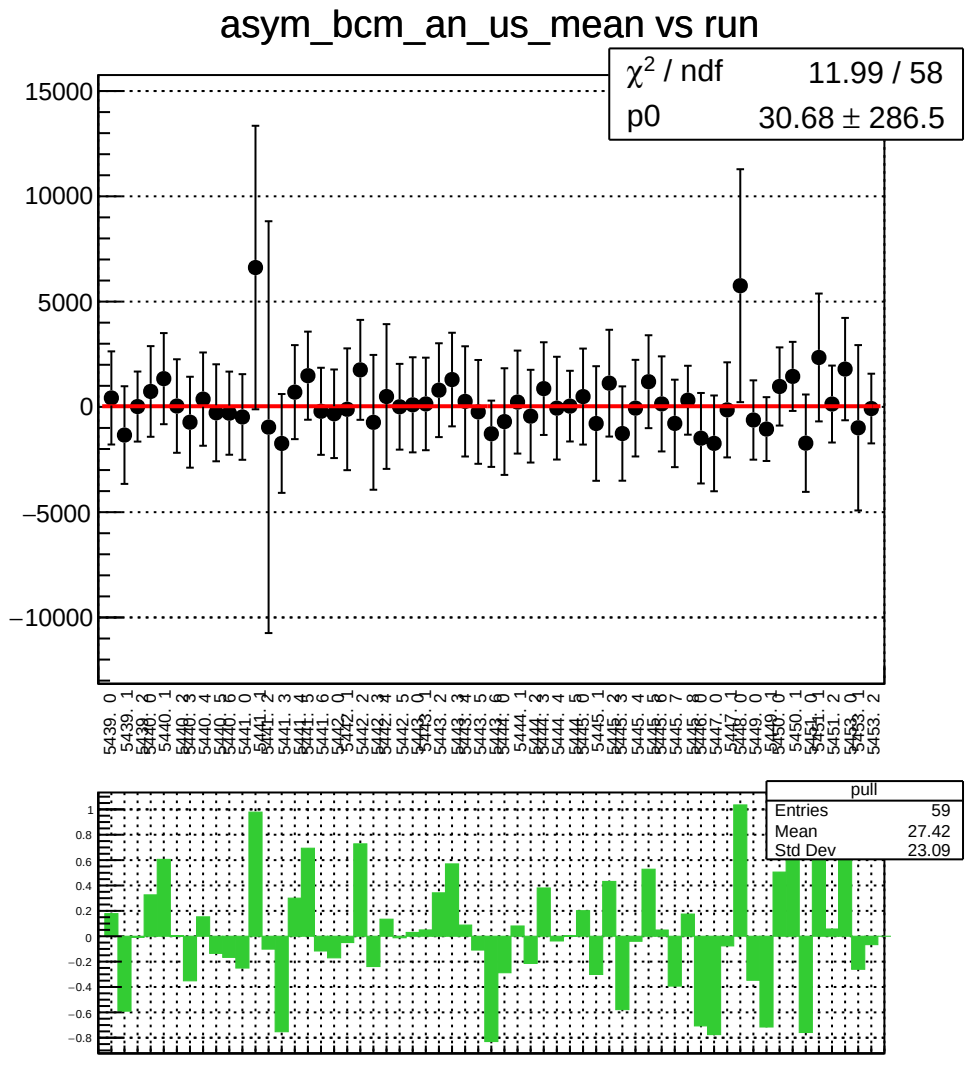

pull1D
Entries 59
Mean 0.02602
Std Dev 0.4582
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

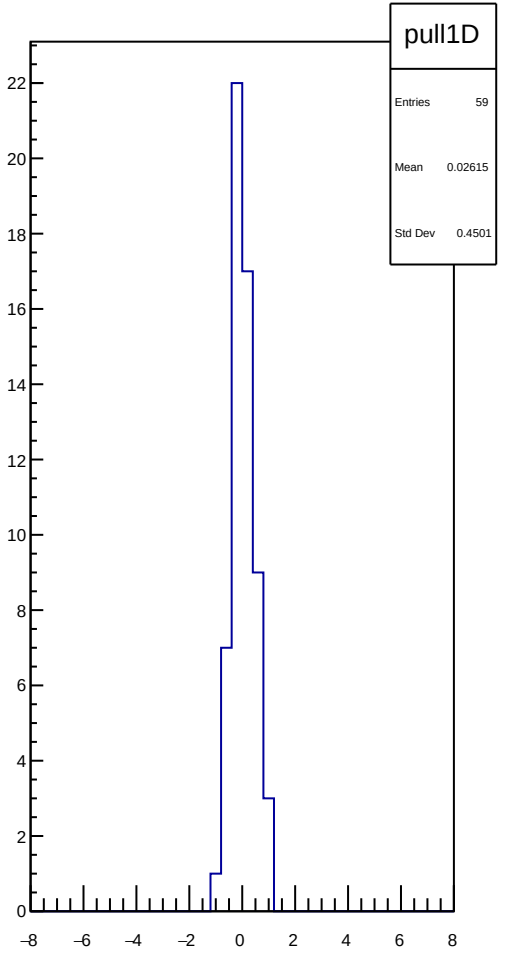

asym_bcm_an_ds_rms vs run
χ² / ndf 3.972e+04 / 58
p0 214.9 ± 0.2014
1000
900
800
700
600
500
400
300
200
100

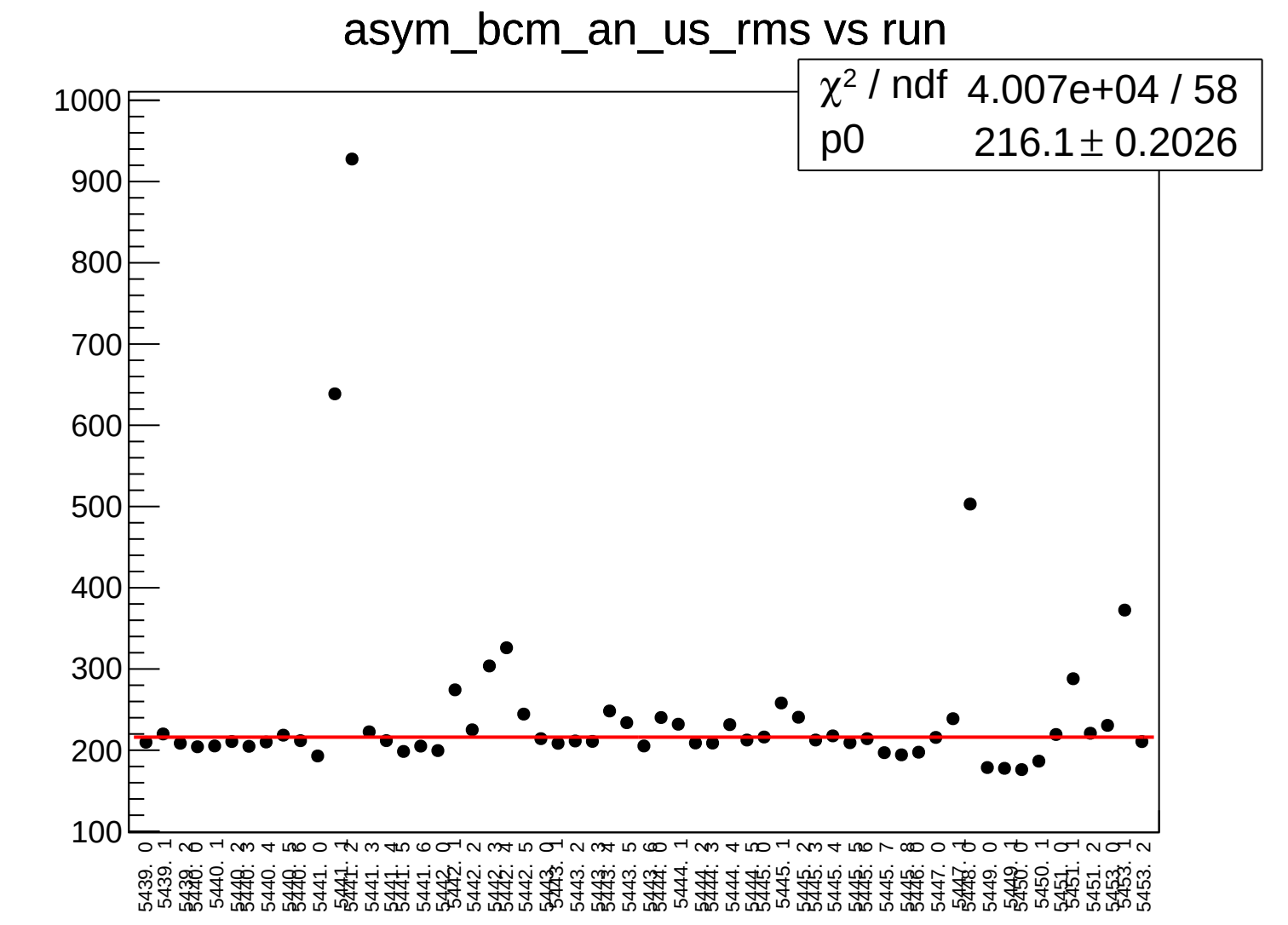

asym_bcm_an_ds3_mean vs run
χ² / ndf 12.57 / 58
p0 46.52 ± 286
pull
Entries 59
Mean 19.64
Std Dev 21.41

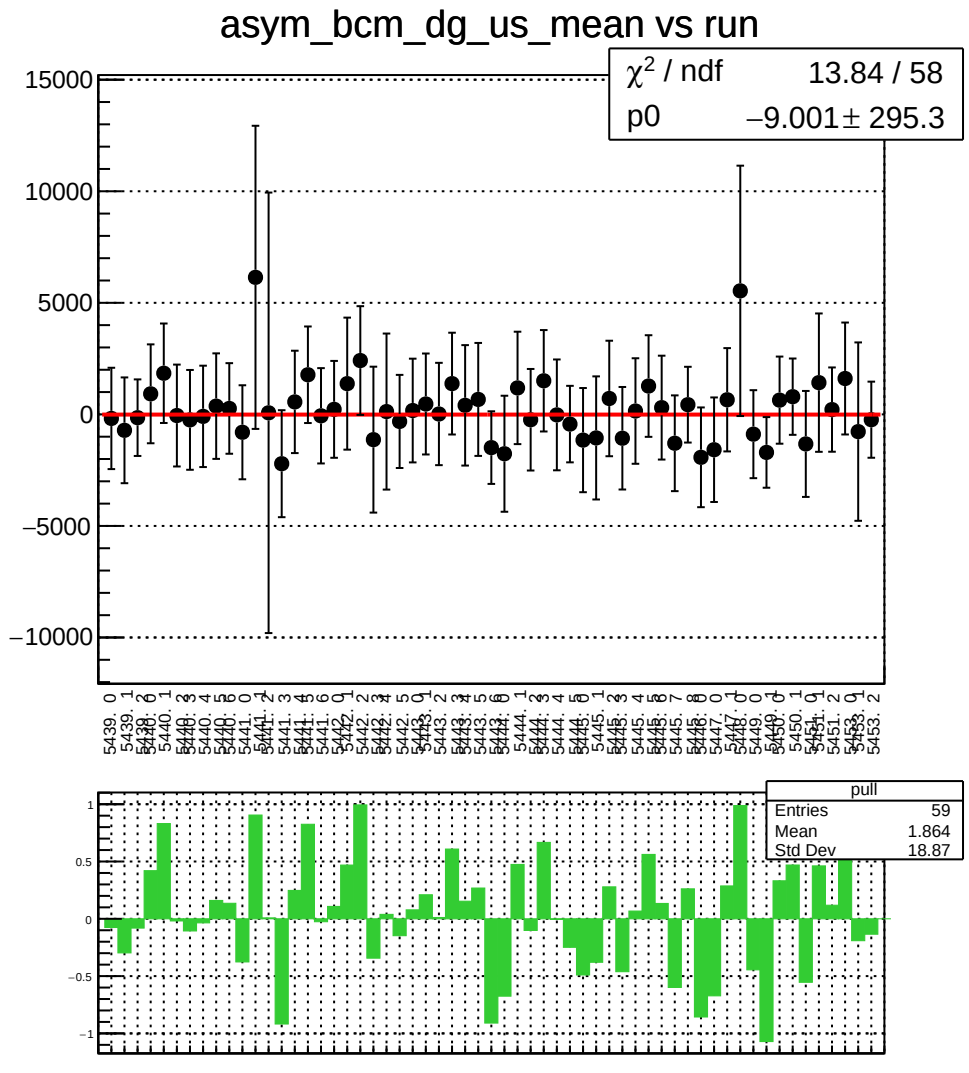

pull1D
Entries 59
Mean 0.02665
Std Dev 0.4608

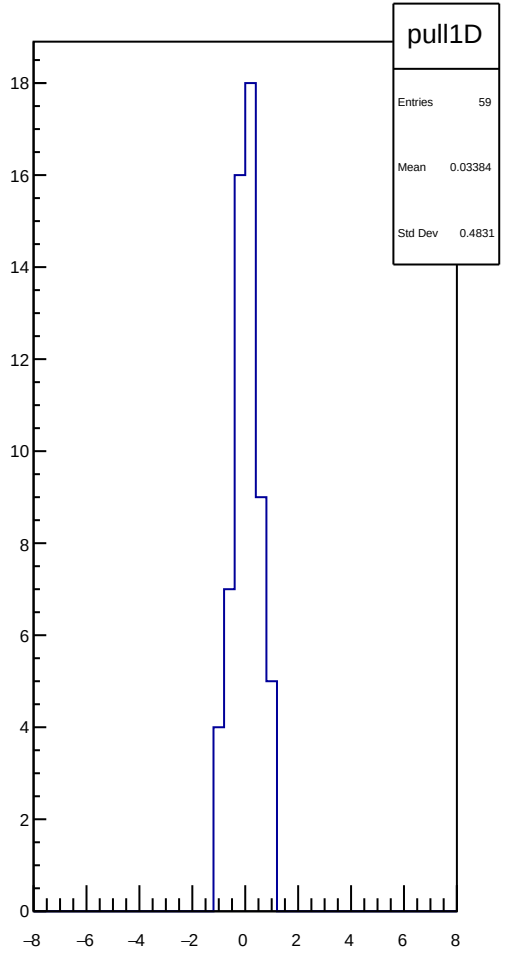

asym_bcm_an_ds3_rms vs run
χ² / ndf 4.003e+04 / 58
p0 215.7 ± 0.2022
1000
900
800
700
600
500
400
300
200
100

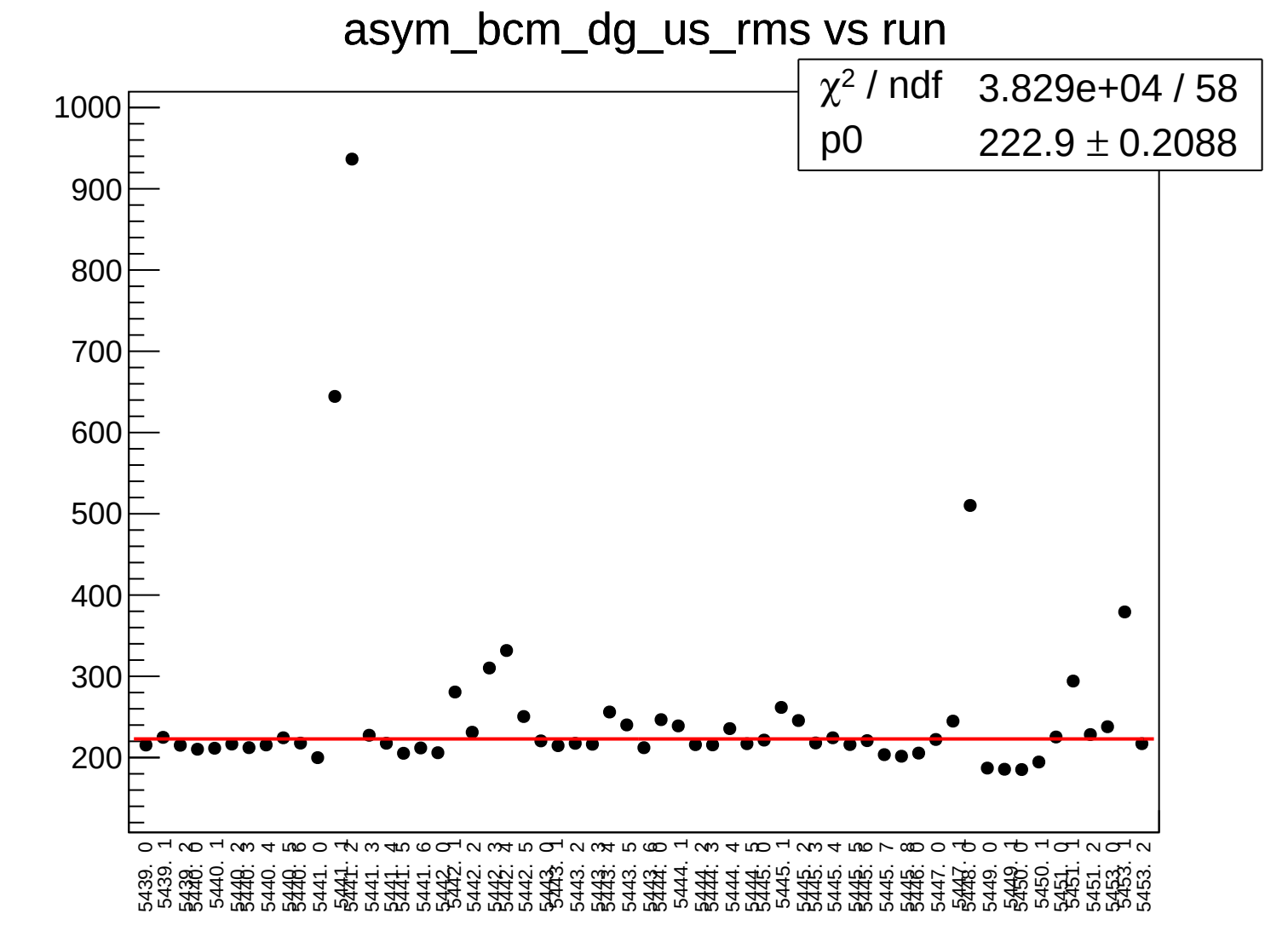

asym_bcm_an_us_mean vs run
$\chi^2$ / ndf 11.99 / 58
p0 30.68 ± 286.5
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 27.42
Std Dev 23.09
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

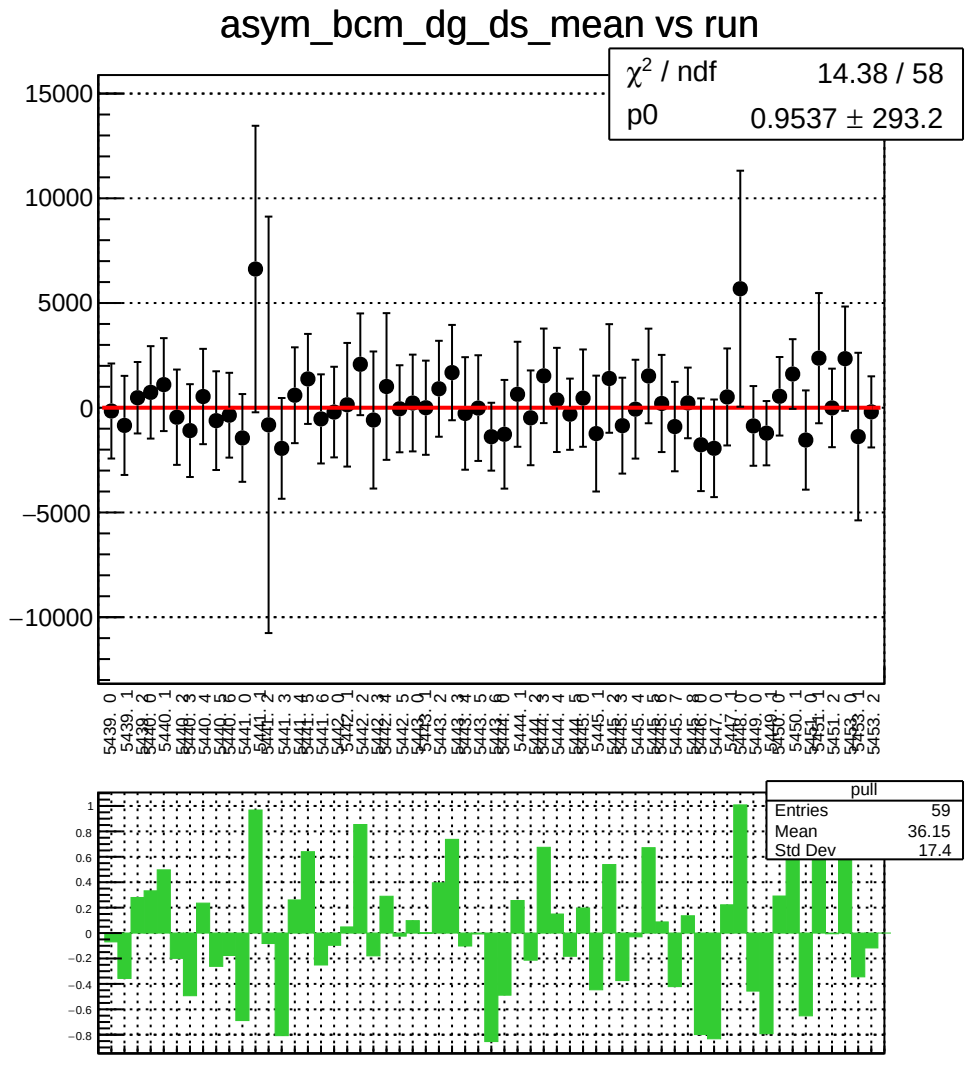

pull1D
Entries 59
Mean 0.02615
Std Dev 0.4501
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

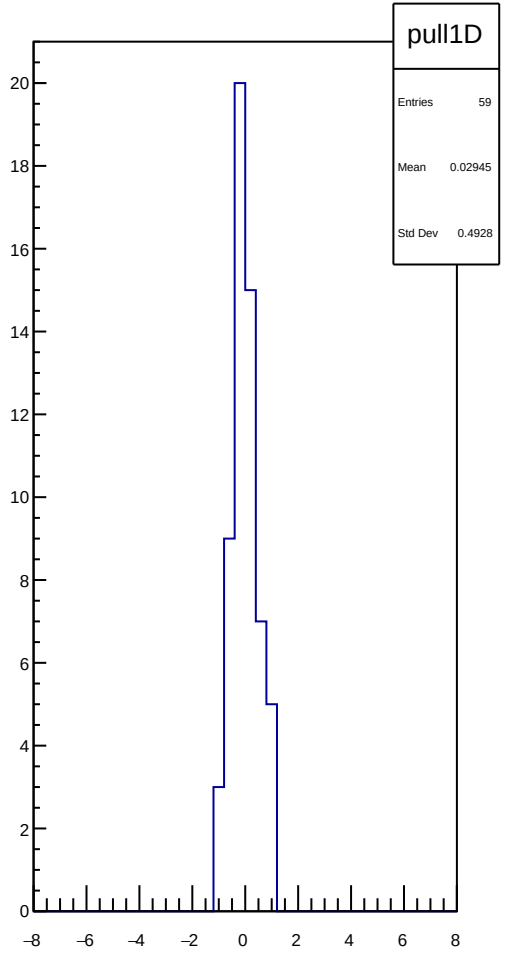

asym_bcm_an_us_rms vs run
χ² / ndf 4.007e+04 / 58
p0 216.1 ± 0.2026
1000
900
800
700
600
500
400
300
200
100

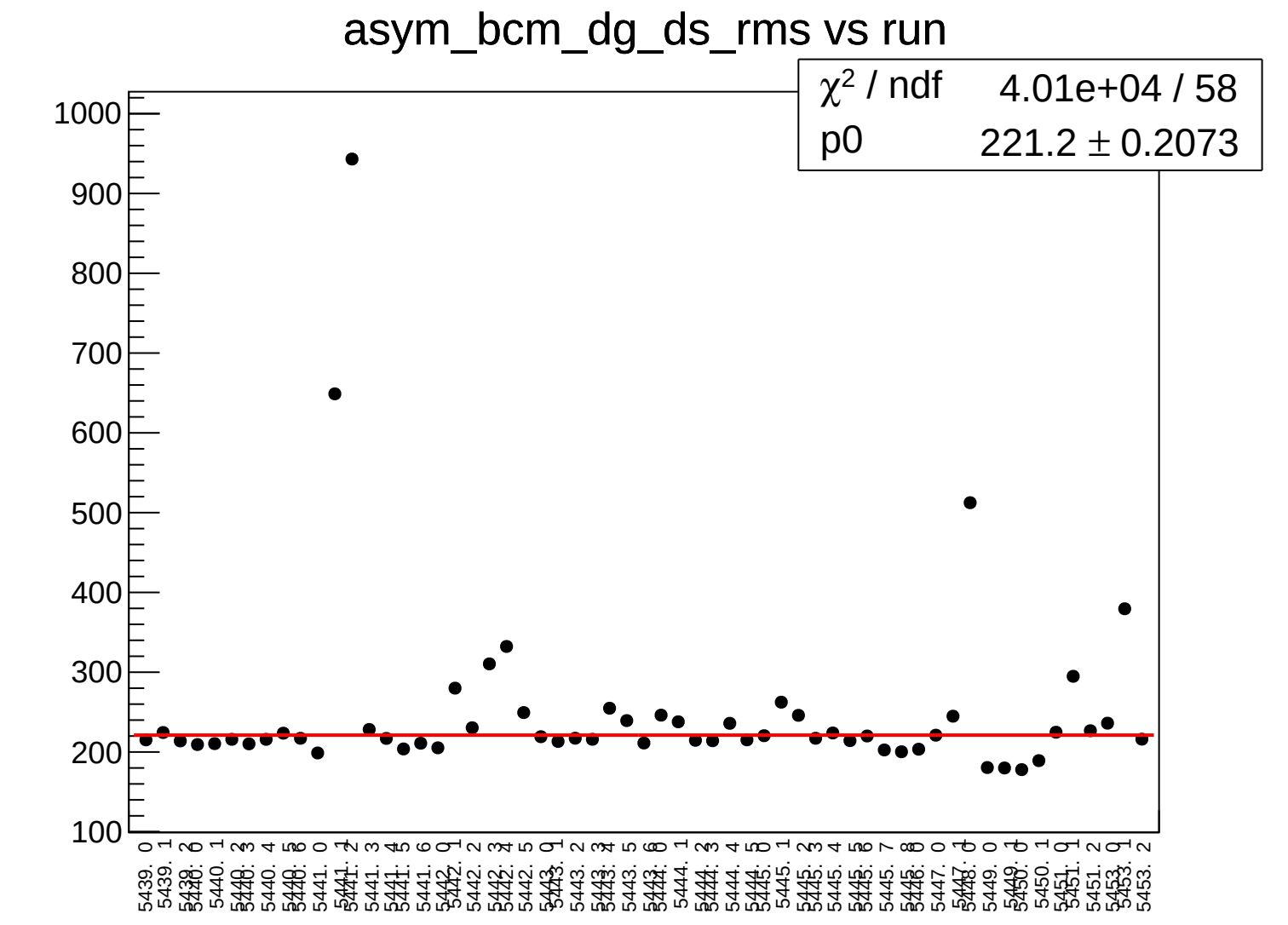

asym_bcm_dg_us_mean vs run
χ² / ndf 13.84 / 58
p0 −9.001 ± 295.3
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 1.864
Std Dev 18.87
1
0.5
0
−0.5
−1

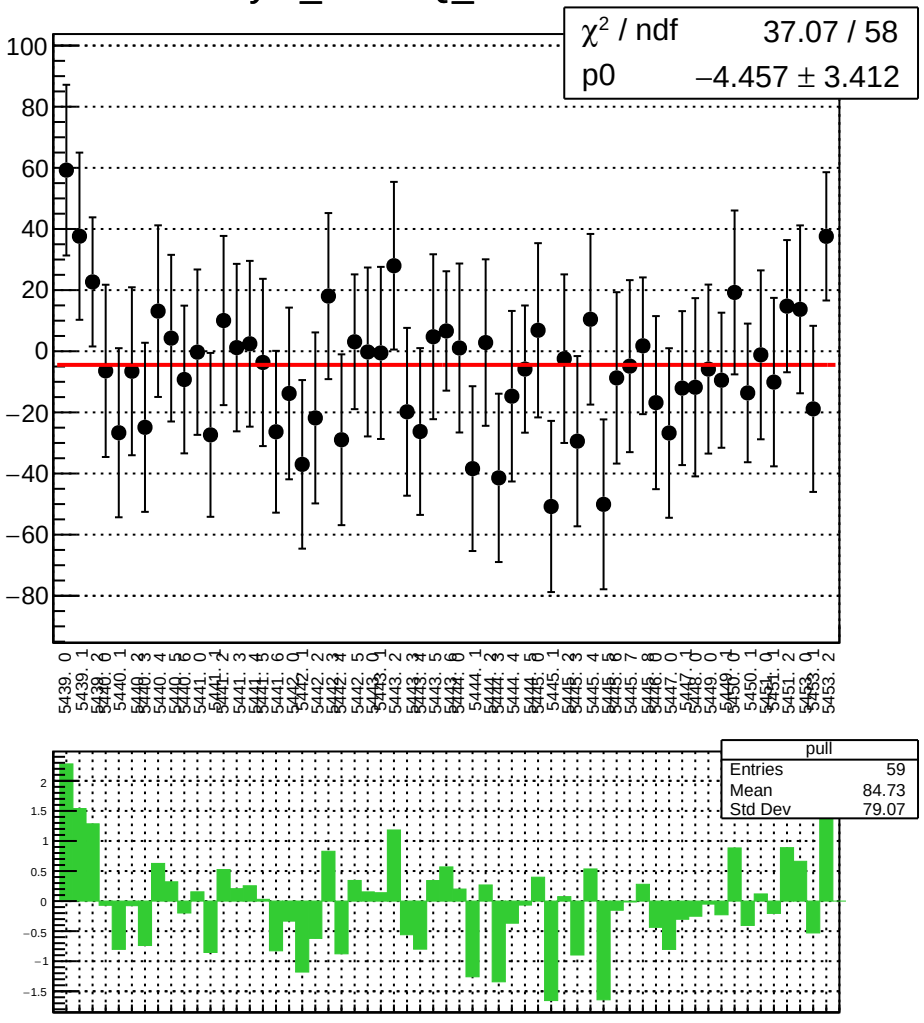

pull1D
Entries 59
Mean 0.03384
Std Dev 0.4831
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

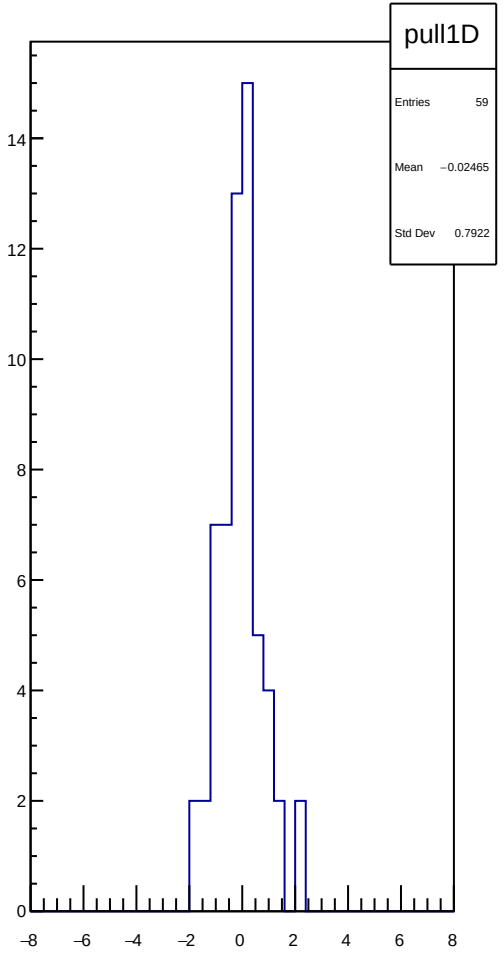

asym_bcm_dg_us_rms vs run
χ² / ndf 3.829e+04 / 58
p0 222.9 ± 0.2088
1000
900
800
700
600
500
400
300
200

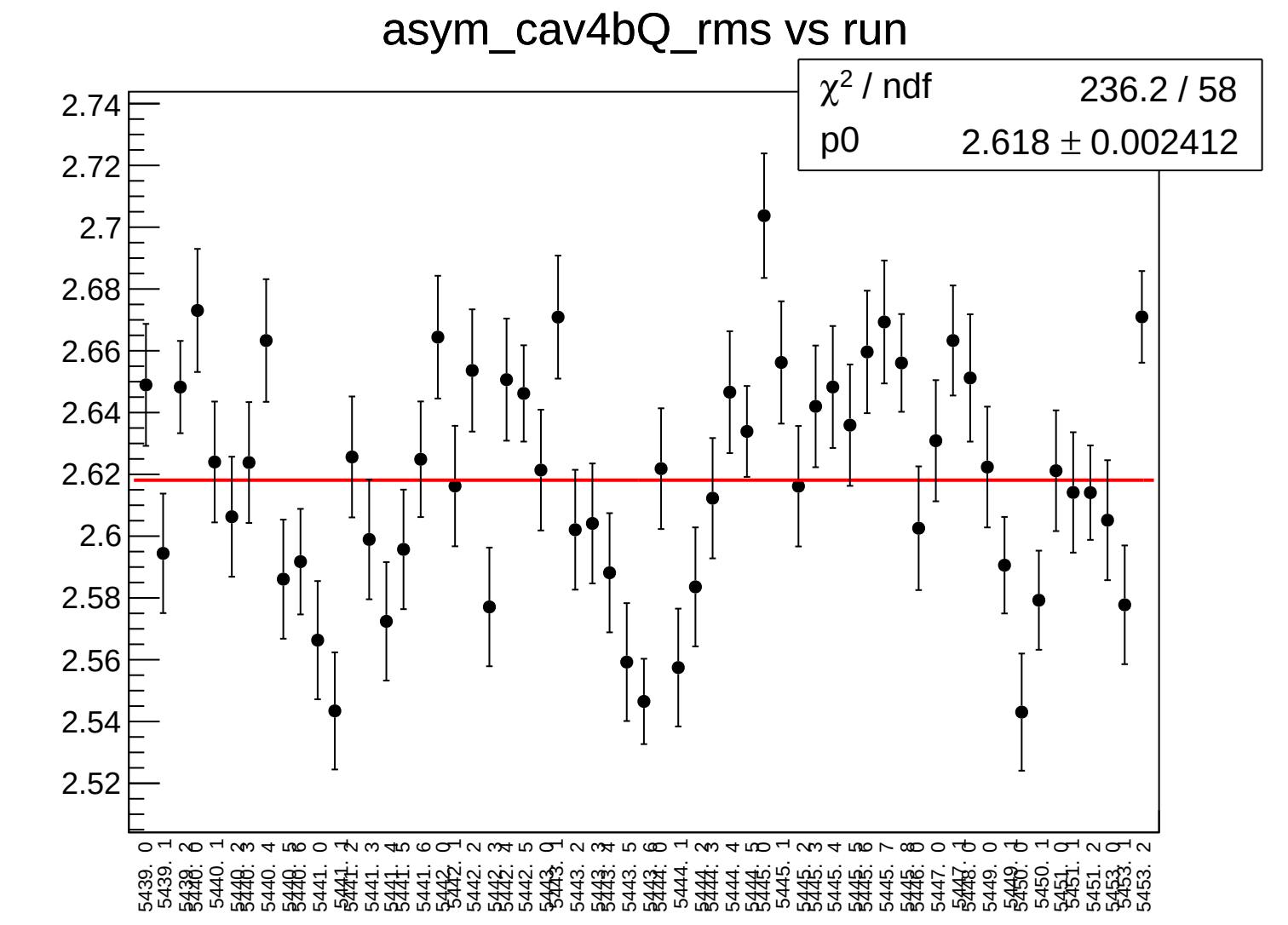

asym_bcm_dg_ds_mean vs run
χ² / ndf 14.38 / 58
p0 0.9537 ± 293.2
pull
Entries 59
Mean 36.15
Std Dev 17.4

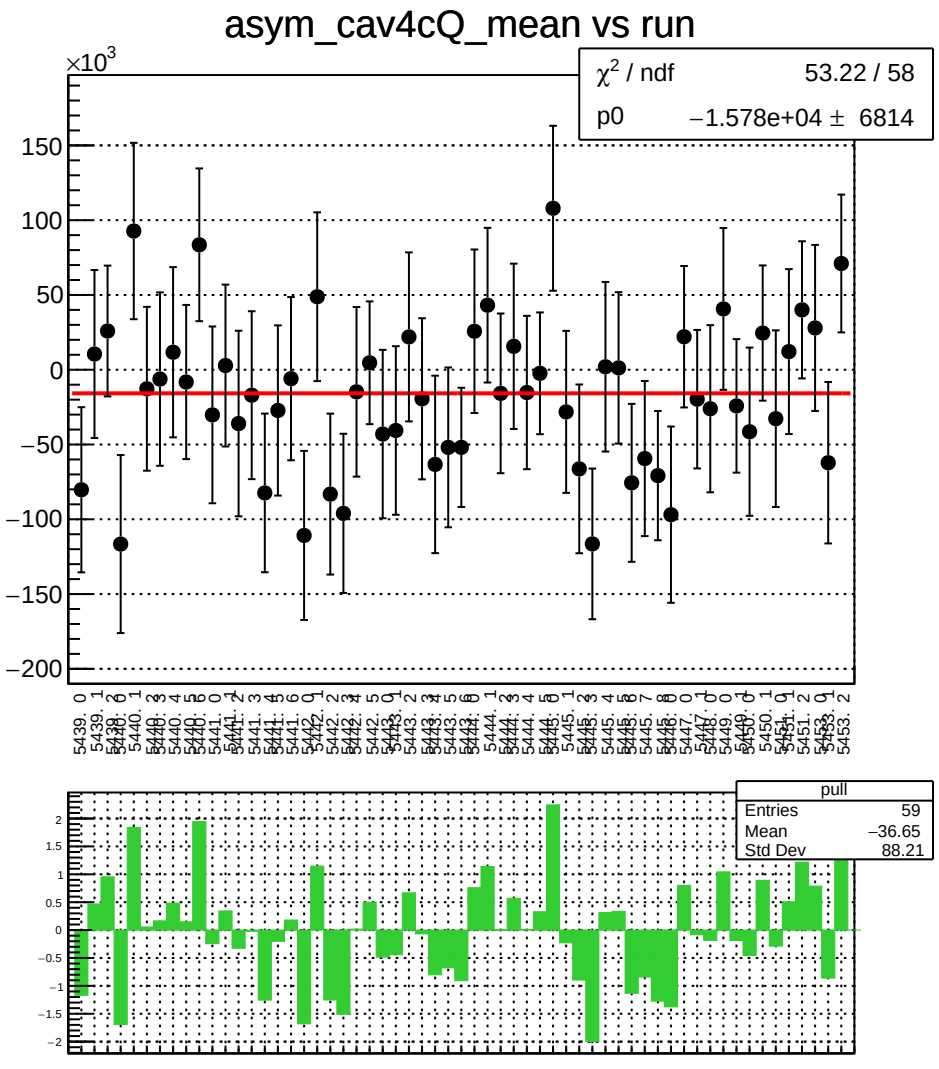

pull1D
Entries 59
Mean 0.02945
Std Dev 0.4928

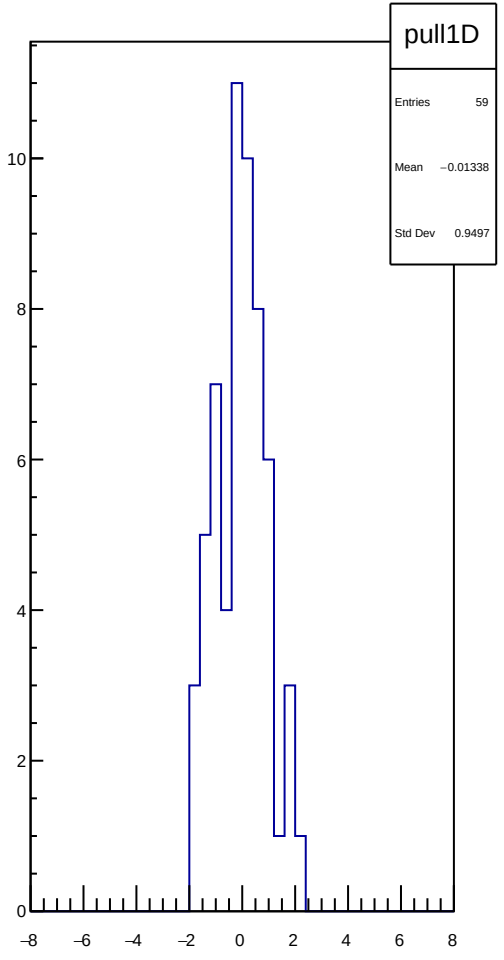

asym_bcm_dg_ds_rms vs run
χ² / ndf 4.01e+04 / 58
p0 221.2 ± 0.2073
1000
900
800
700
600
500
400
300
200
100

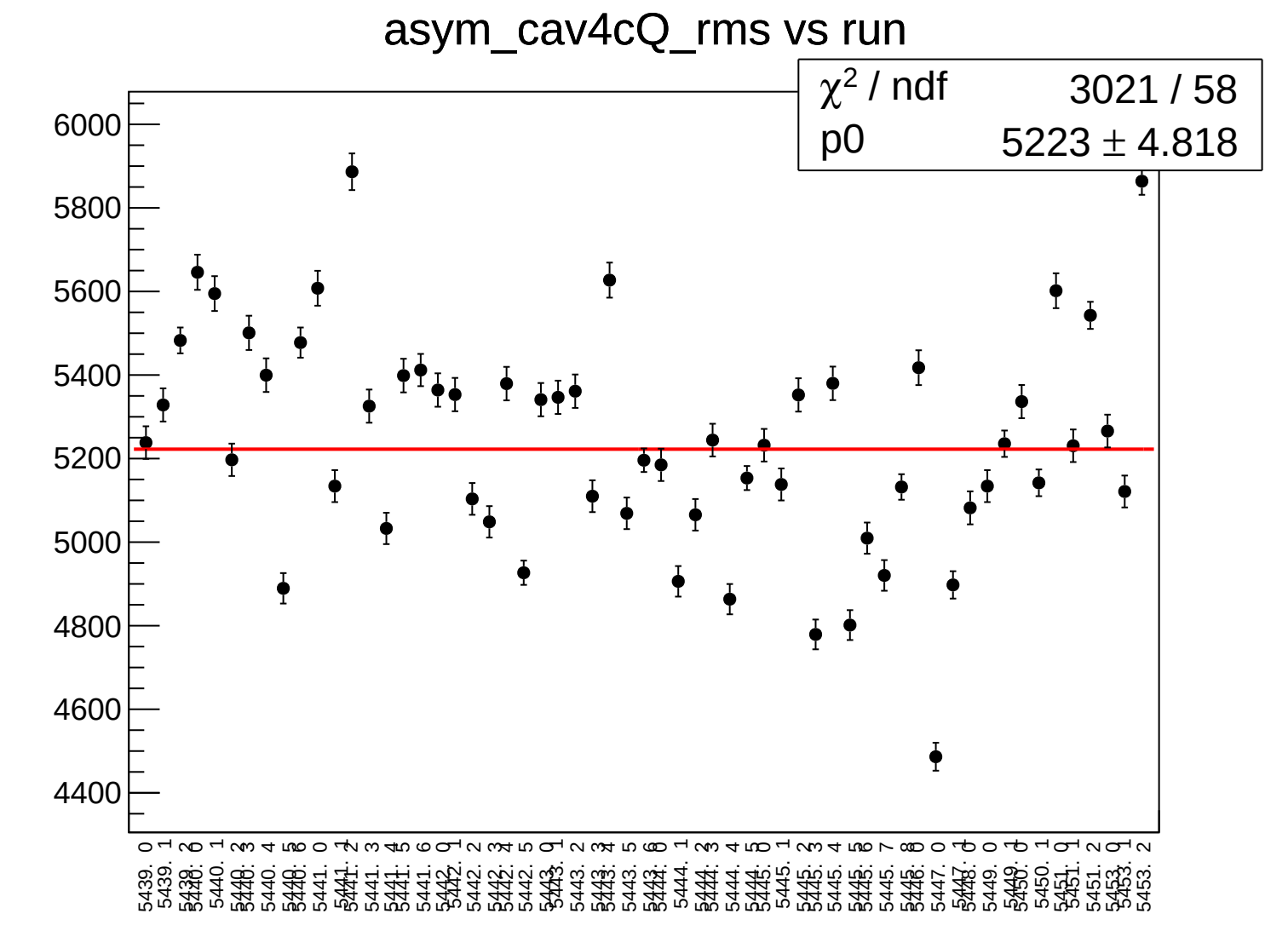

asym_cav4bQ_mean vs run
χ² / ndf 37.07 / 58
p0 −4.457 ± 3.412
pull
Entries 59
Mean 84.73
Std Dev 79.07

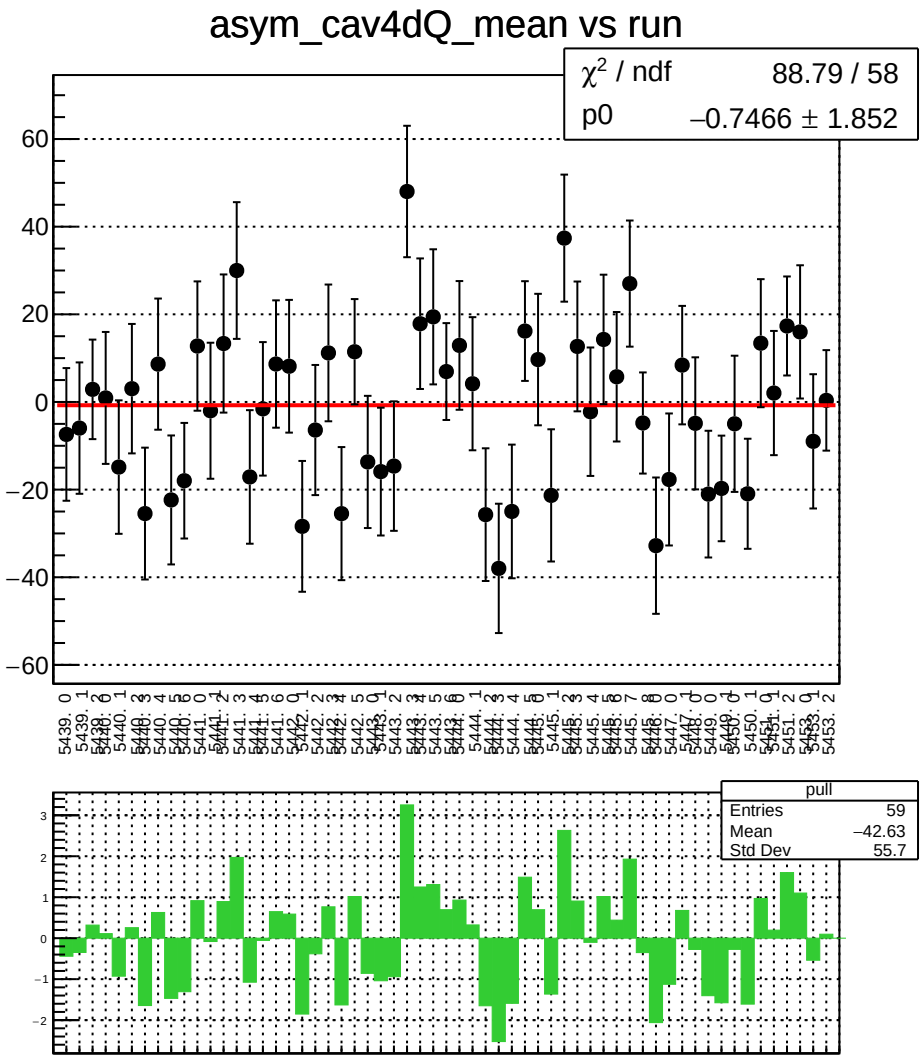

pull1D
Entries 59
Mean −0.02465
Std Dev 0.7922

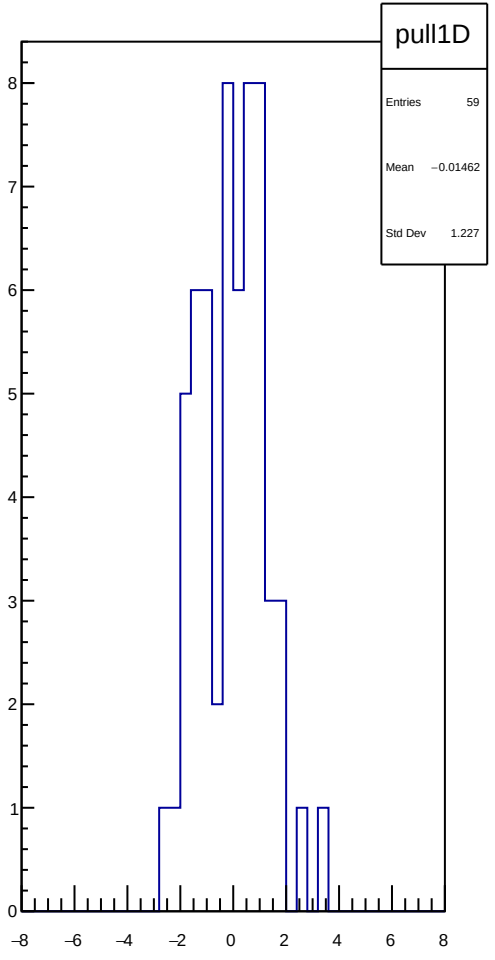

asym_cav4bQ_rms vs run
$\chi^2$ / ndf 236.2 / 58
p0 2.618 ± 0.002412
2.74
2.72
2.7
2.68
2.66
2.64
2.62
2.6
2.58
2.56
2.54
2.52

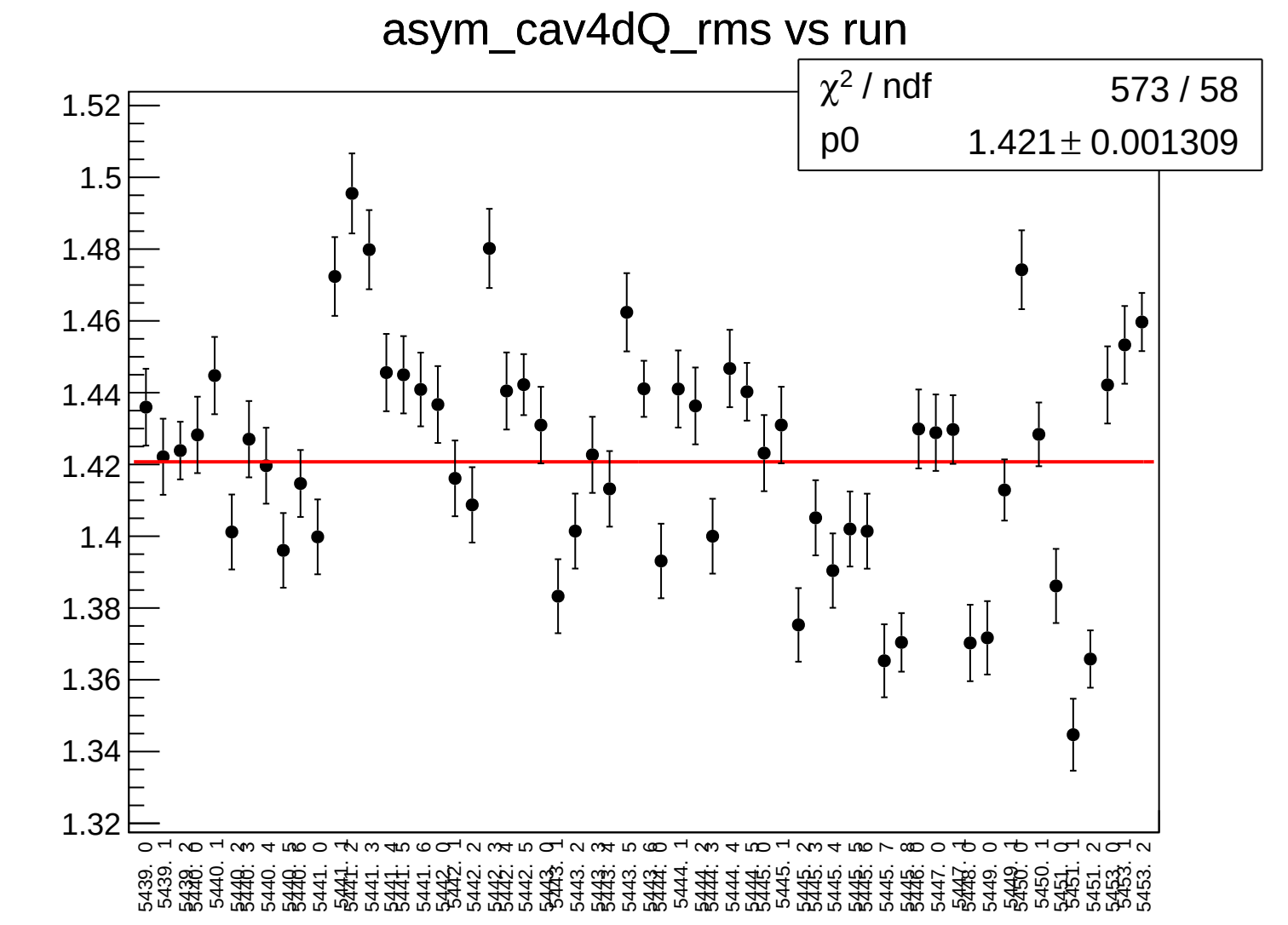

asym_cav4cQ_mean vs run
×10^3
χ² / ndf 53.22 / 58
p0 −1.578e+04 ± 6814
150
100
50
0
−50
−100
−150
−200
pull
Entries 59
Mean −36.65
Std Dev 88.21
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

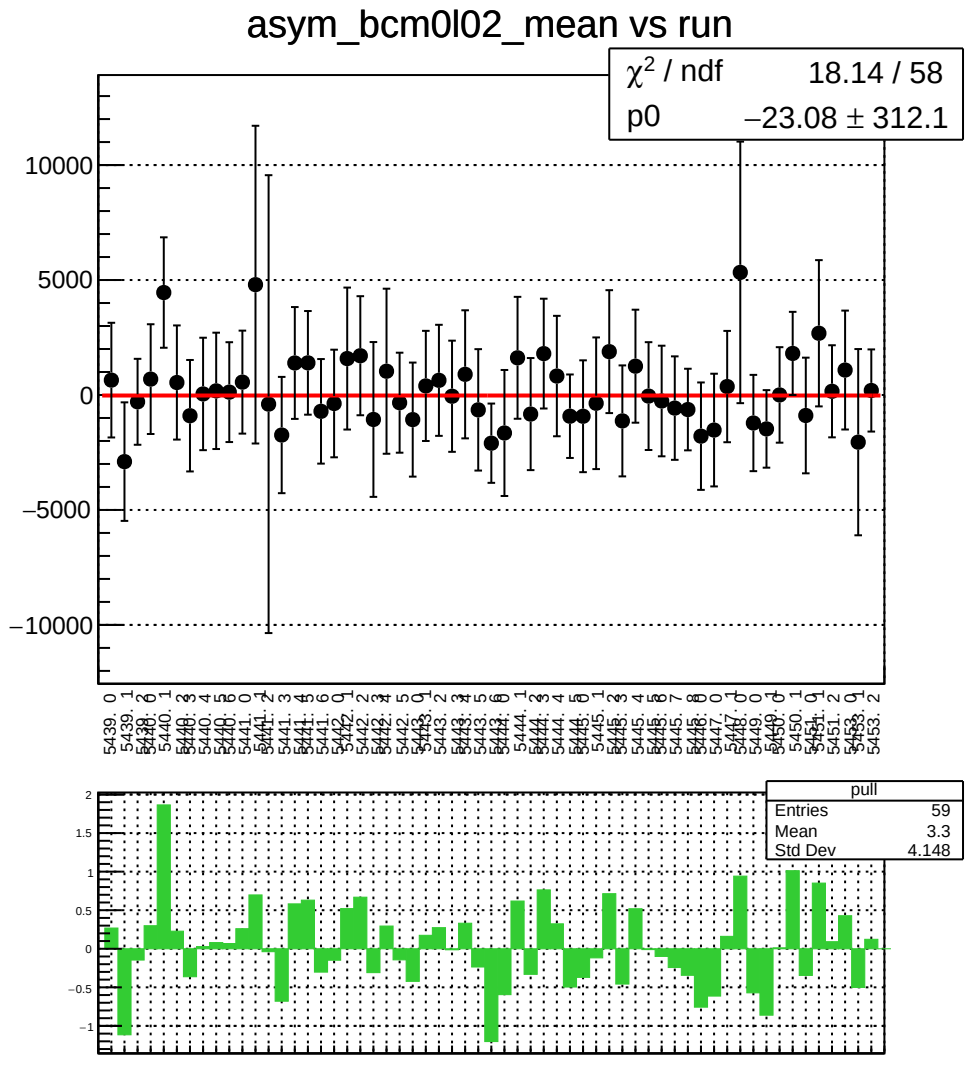

pull1D
Entries 59
Mean −0.01338
Std Dev 0.9497
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

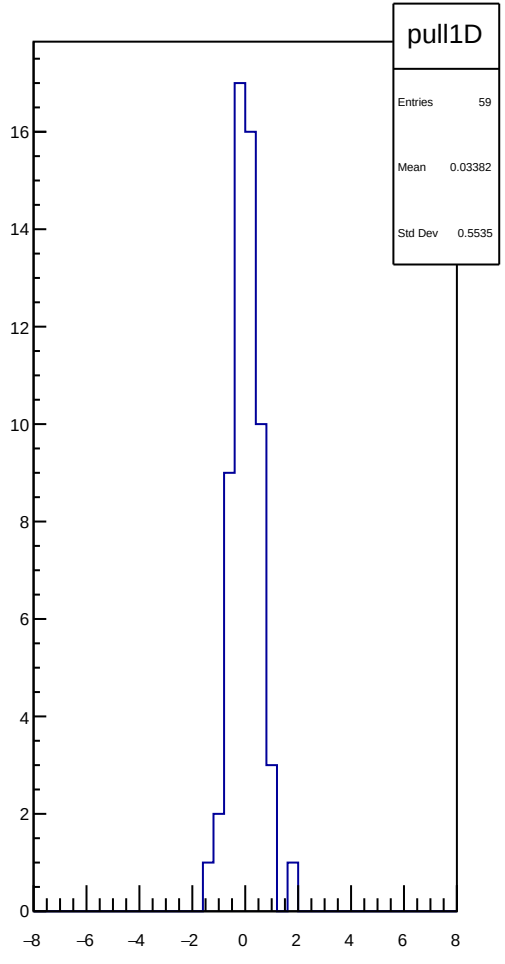

asym_cav4cQ_rms vs run
χ² / ndf 3021 / 58
p0 5223 ± 4.818
6000
5800
5600
5400
5200
5000
4800
4600
4400

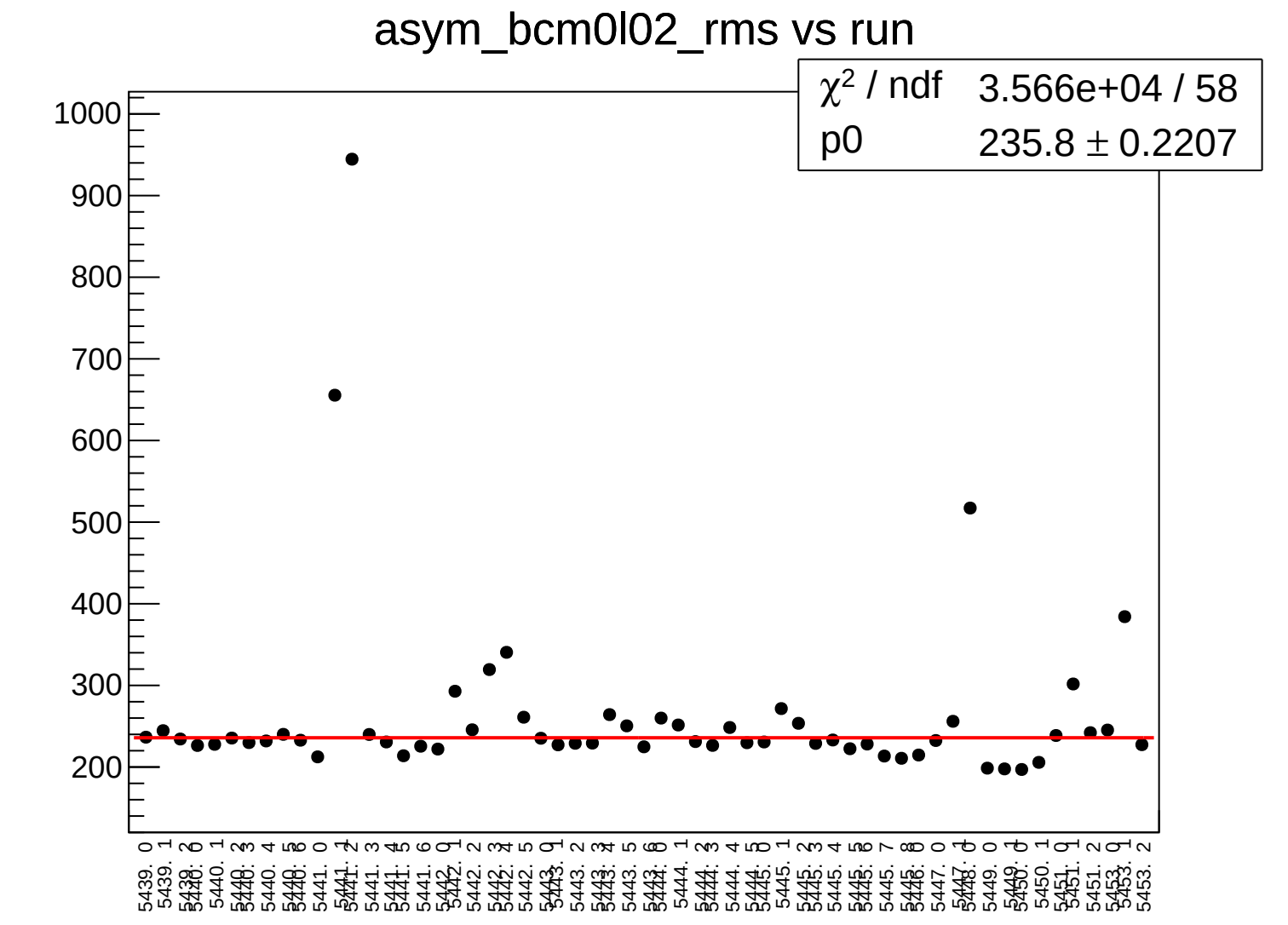

asym_cav4dQ_mean vs run
χ² / ndf 88.79 / 58
p0 −0.7466 ± 1.852
pull
Entries 59
Mean −42.63
Std Dev 55.7

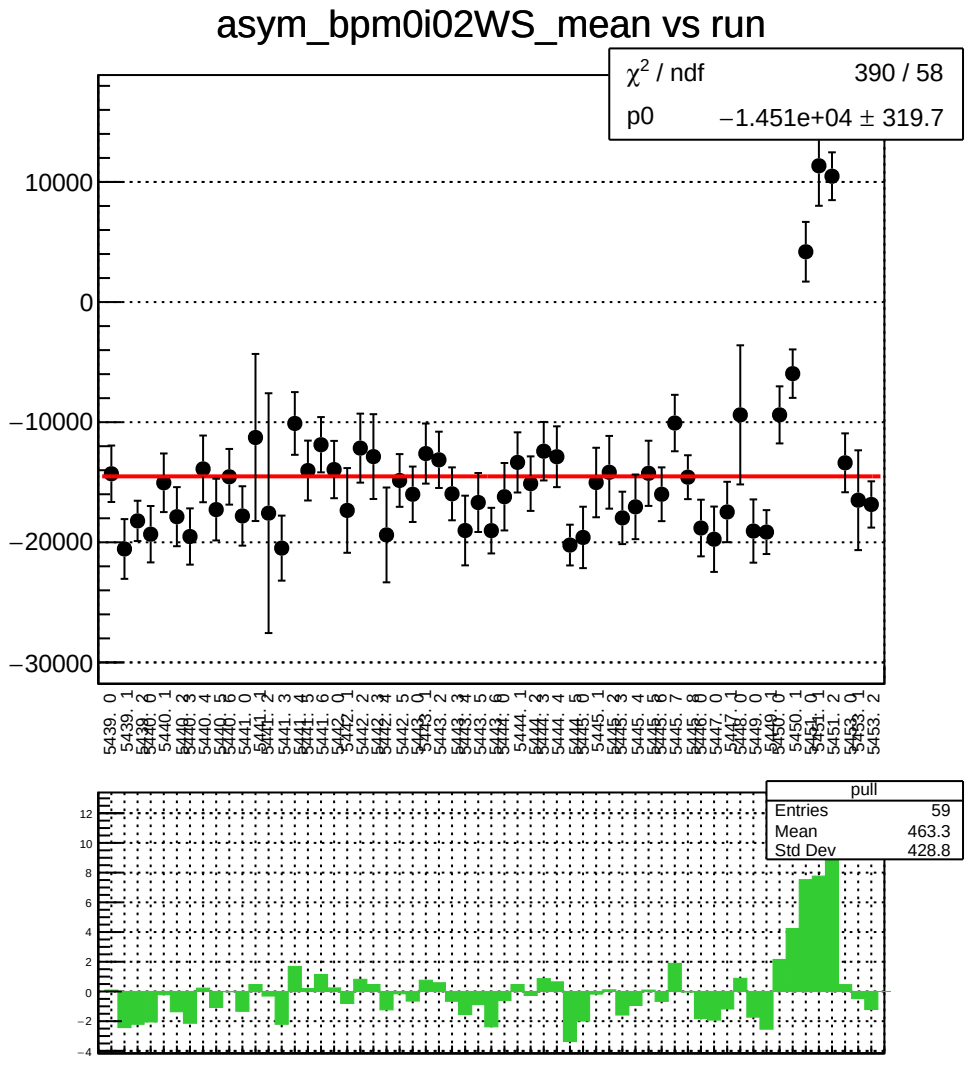

pull1D
Entries 59
Mean −0.01462
Std Dev 1.227

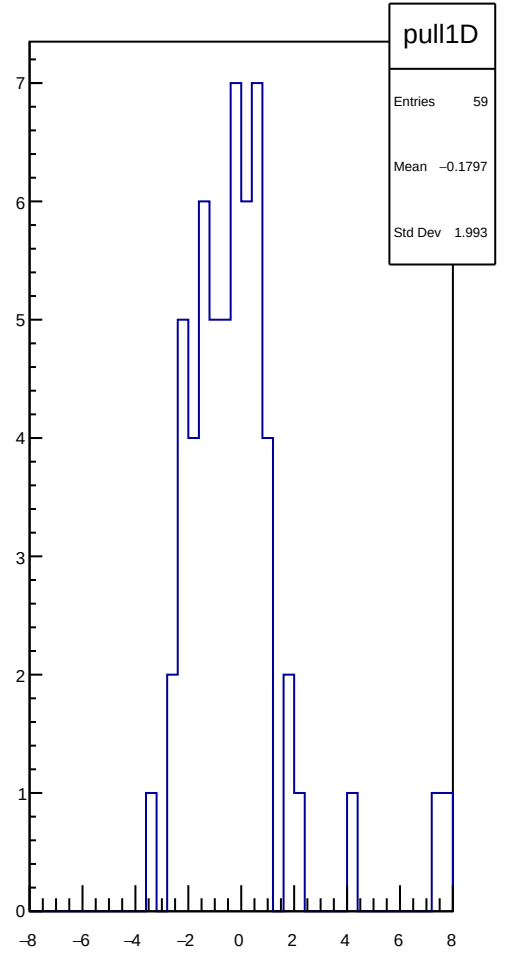

asym_cav4dQ_rms vs run
χ² / ndf 573 / 58
p0 1.421 ± 0.001309
1.52
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34
1.32

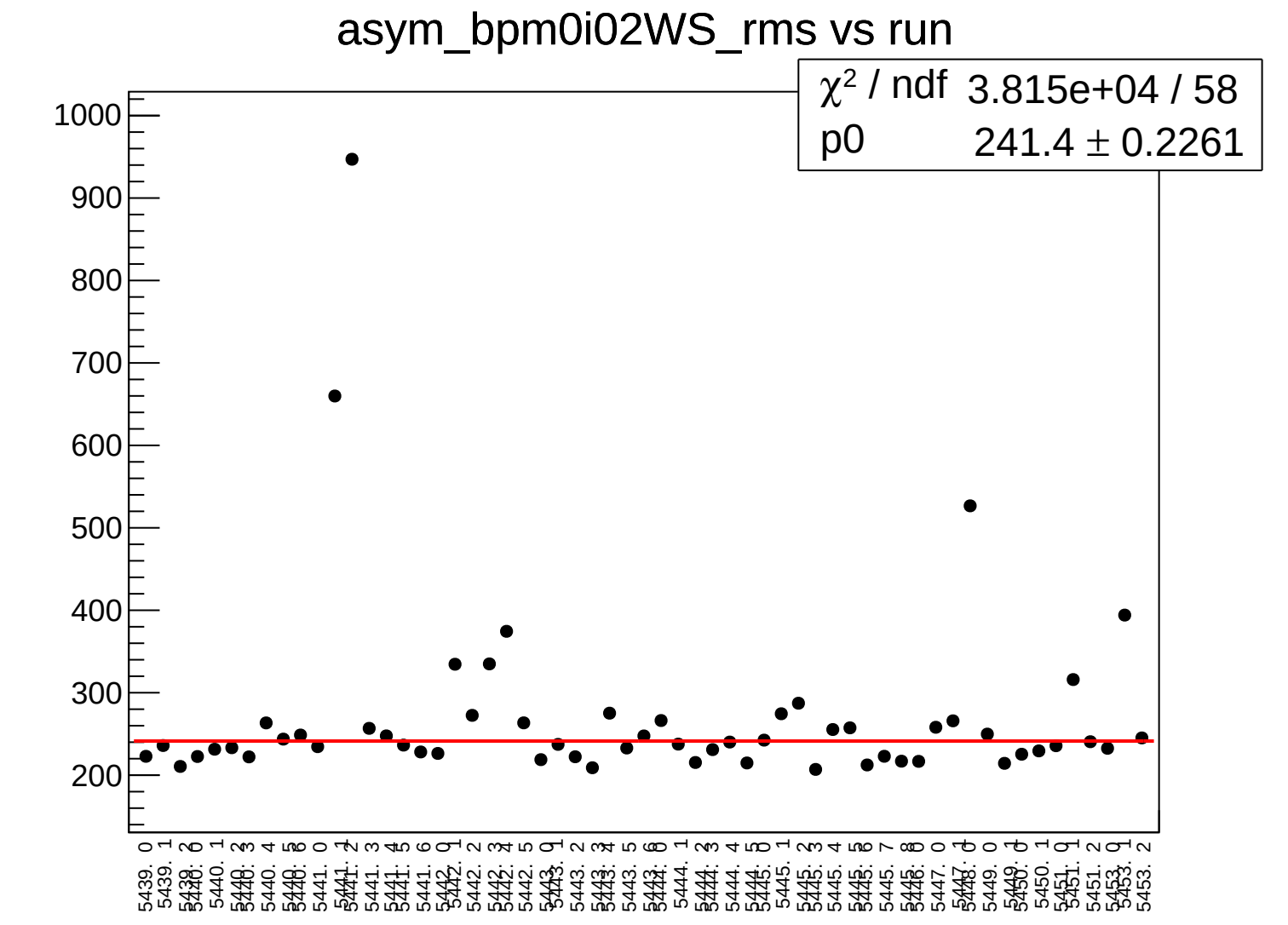

asym_bcm0l02_mean vs run
χ² / ndf 18.14 / 58
p0 −23.08 ± 312.1
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 3.3
Std Dev 4.148
2
1.5
1
0.5
0
−0.5
−1

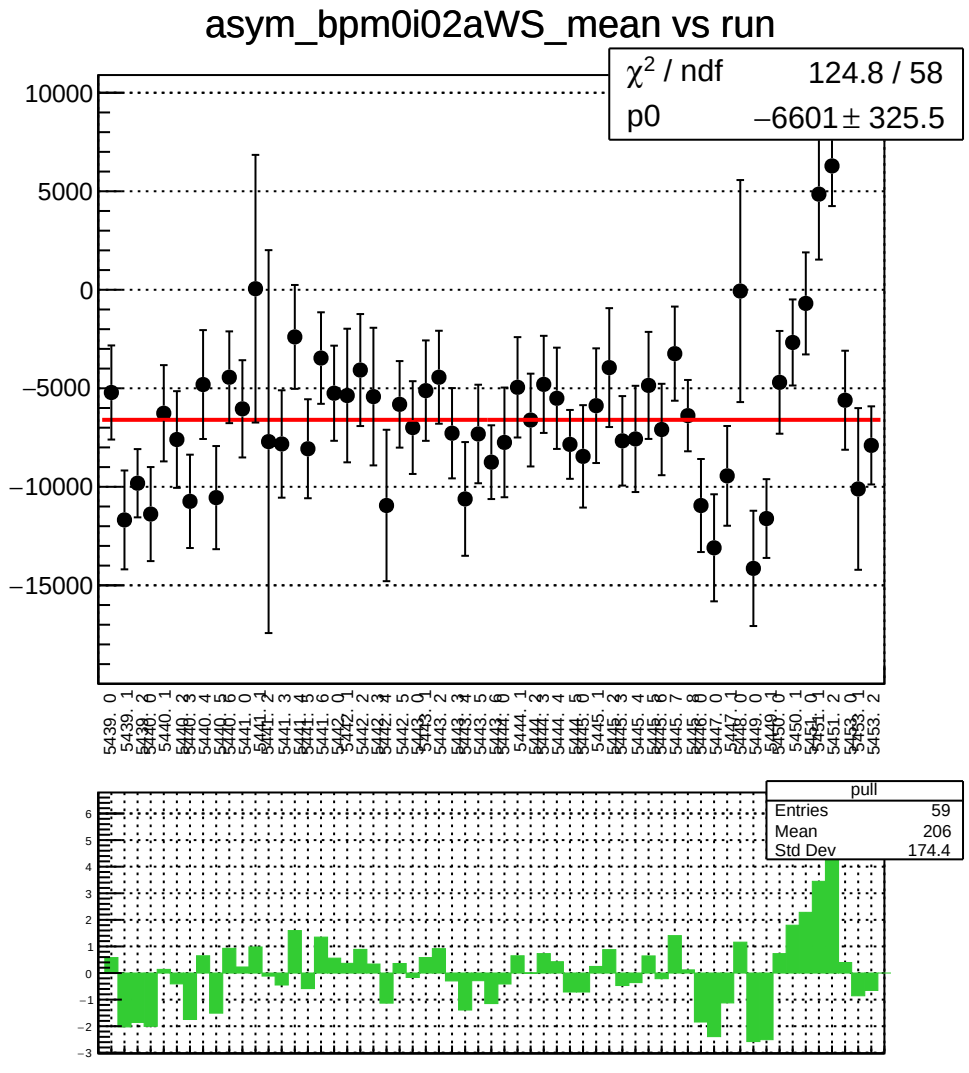

pull1D
Entries 59
Mean 0.03382
Std Dev 0.5535
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

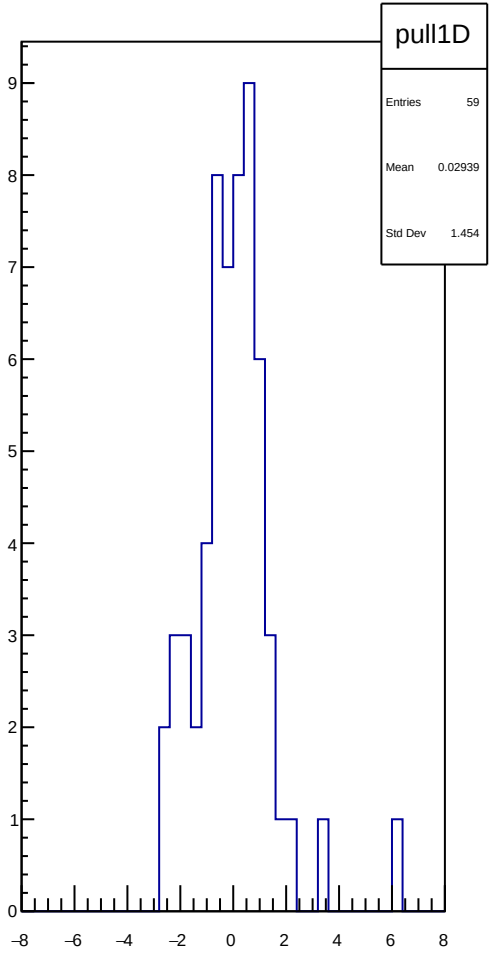

asym_bcm0l02_rms vs run
χ² / ndf 3.566e+04 / 58
p0 235.8 ± 0.2207
1000
900
800
700
600
500
400
300
200

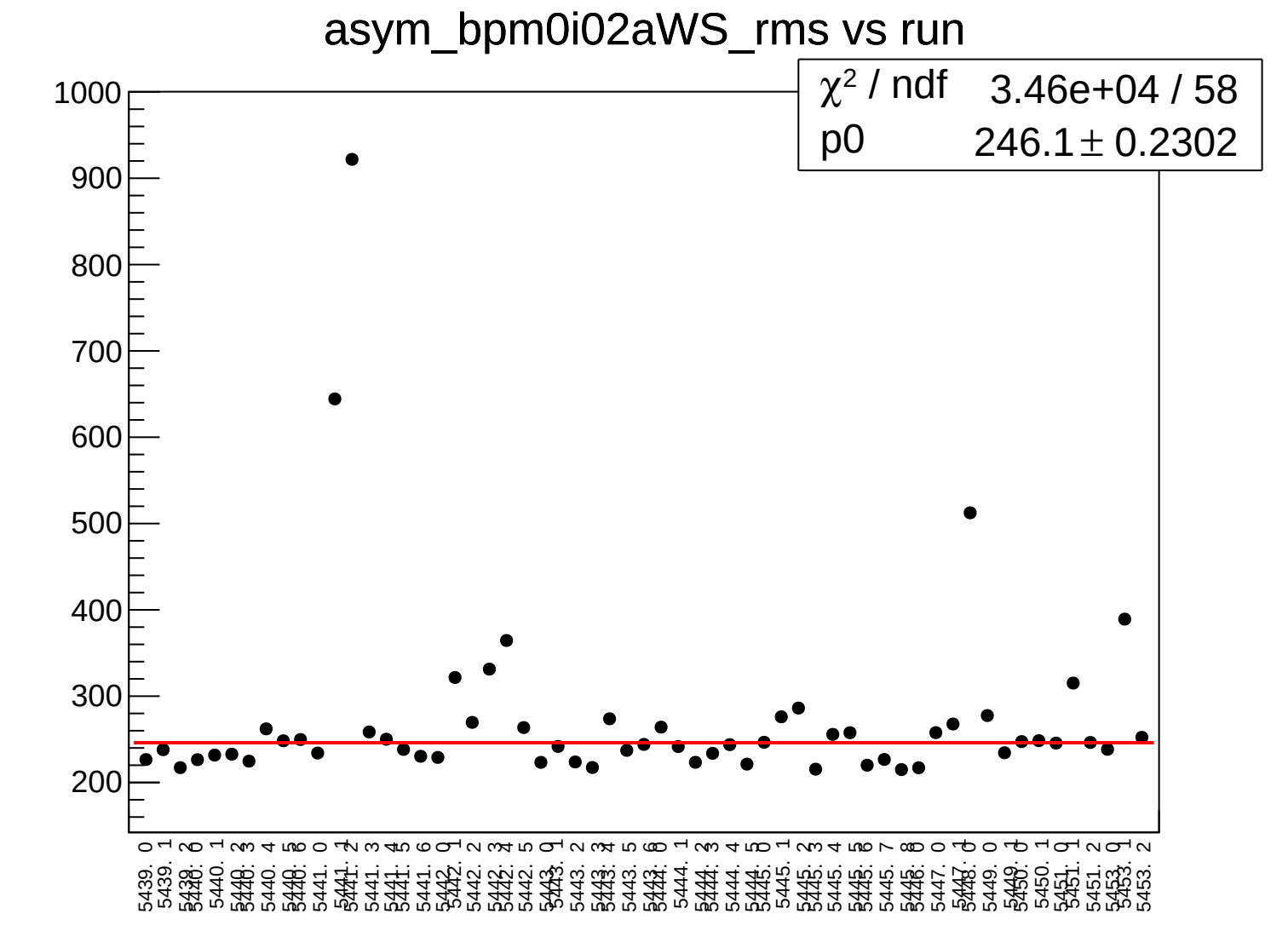

asym_bpm0i02WS_mean vs run
χ² / ndf 390 / 58
p0 −1.451e+04 ± 319.7
pull
Entries 59
Mean 463.3
Std Dev 428.8

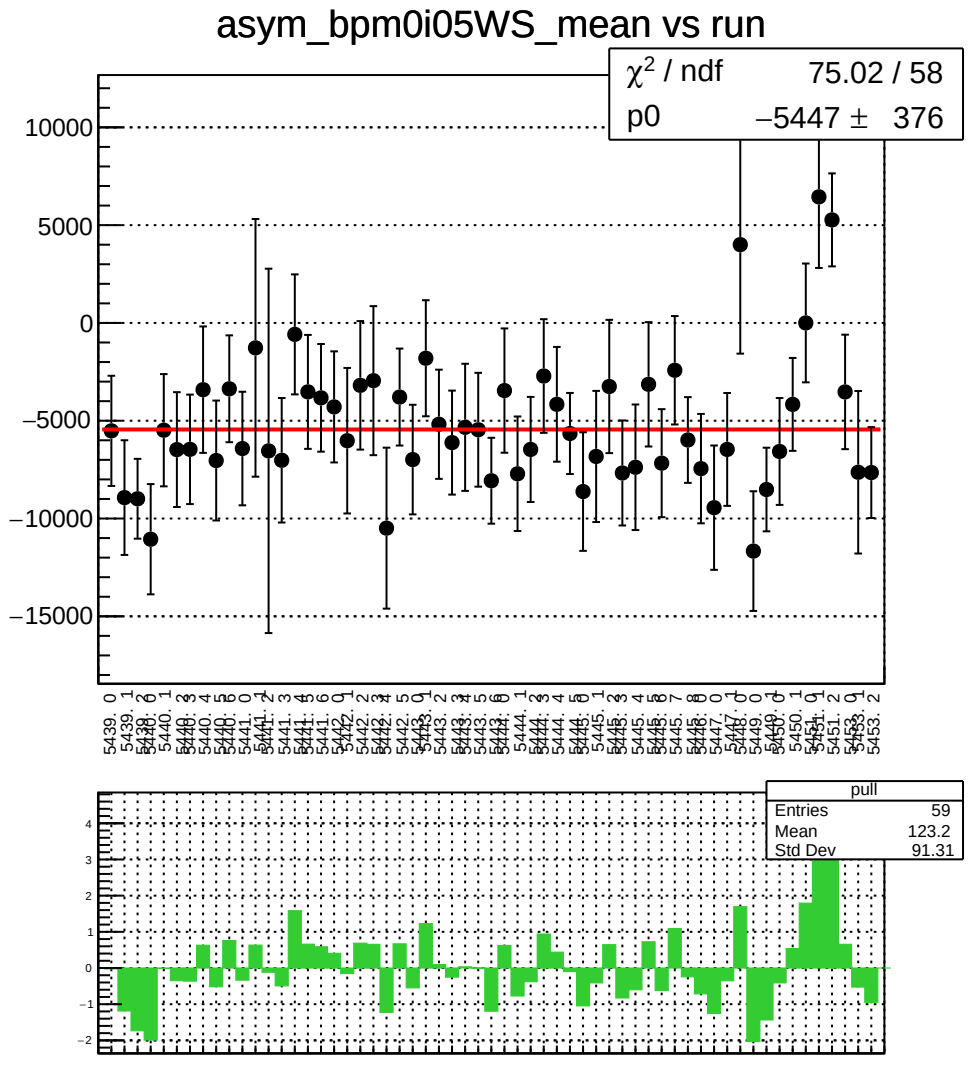

pull1D
Entries 59
Mean −0.1797
Std Dev 1.993

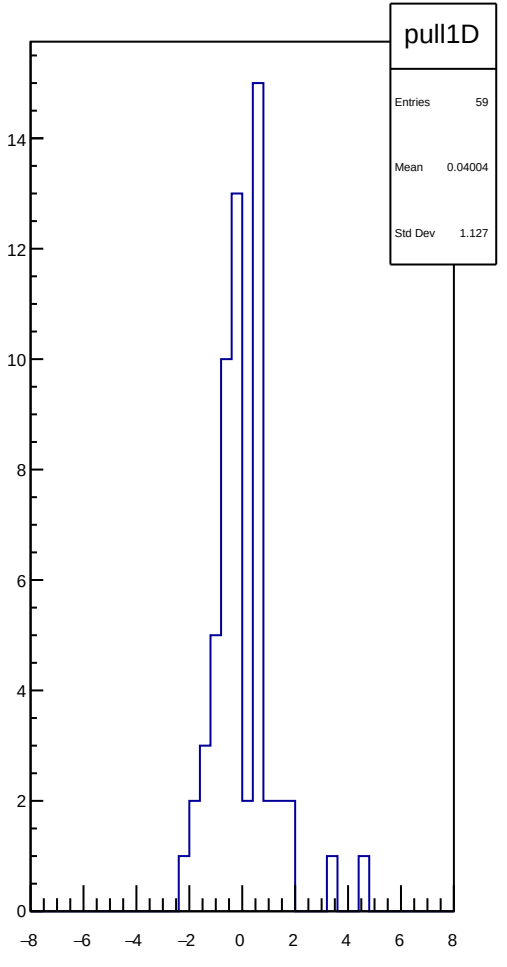

asym_bpm0i02WS_rms vs run
χ² / ndf 3.815e+04 / 58
p0 241.4 ± 0.2261
1000
900
800
700
600
500
400
300
200

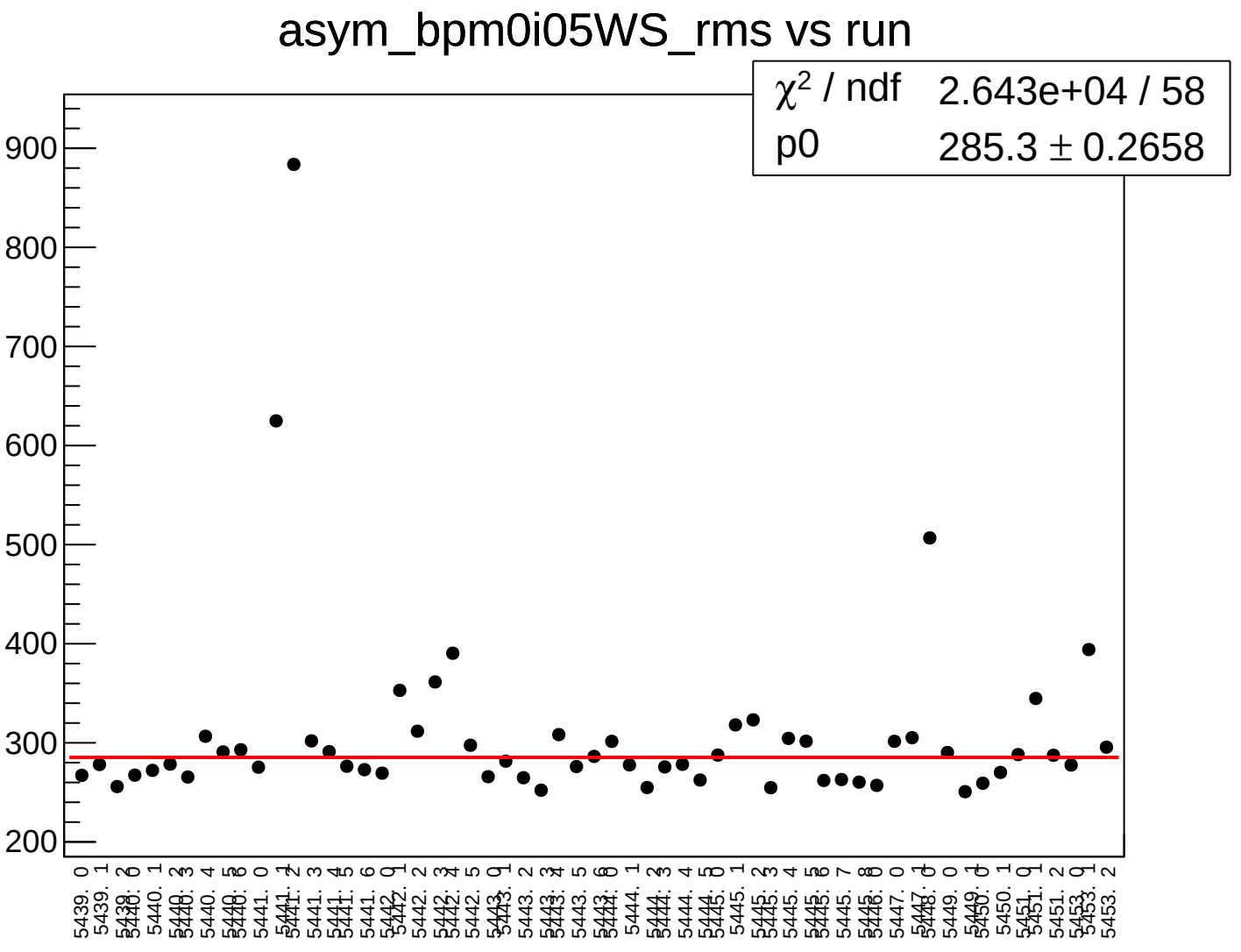

asym_bpm0i02aWS_mean vs run
χ² / ndf 124.8 / 58
p0 −6601 ± 325.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean 206
Std Dev 174.4
6
5
4
3
2
1
0
−1
−2
−3

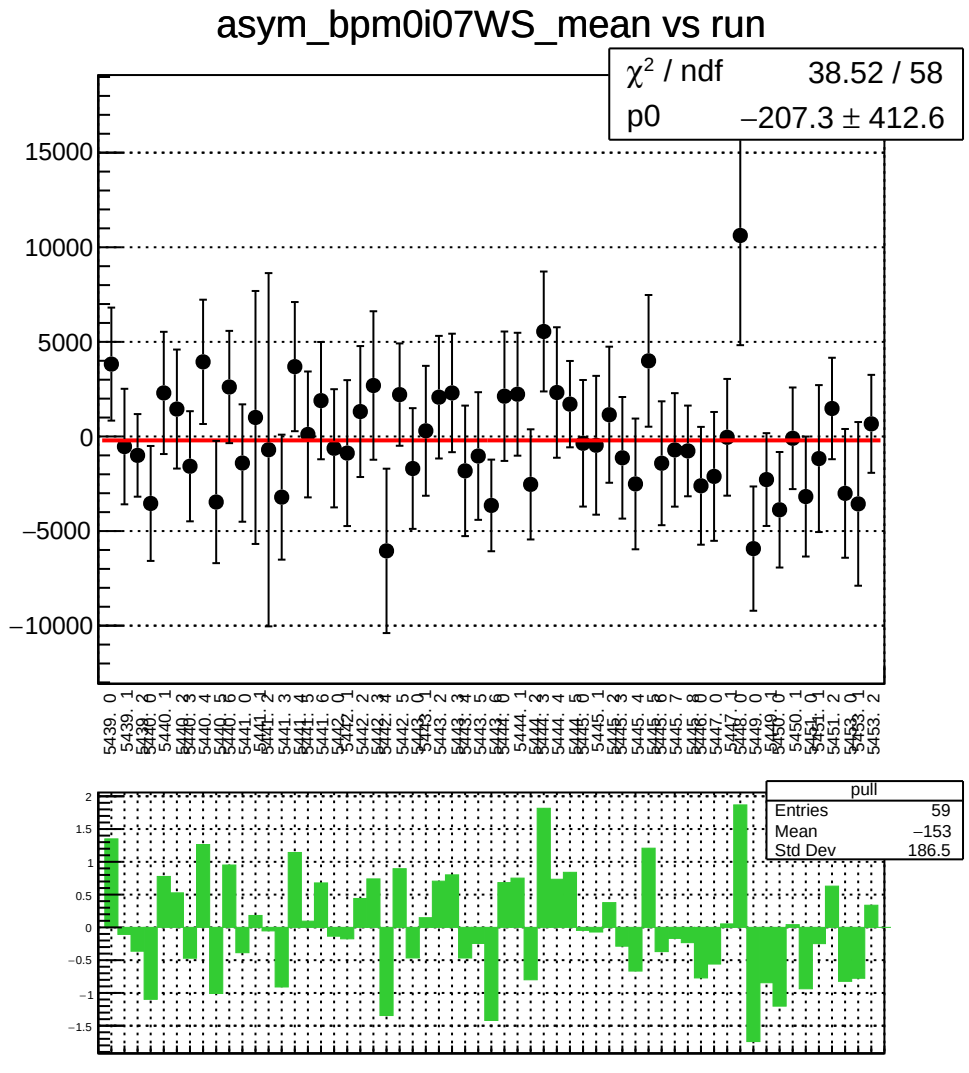

pull1D
Entries 59
Mean 0.02939
Std Dev 1.454
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

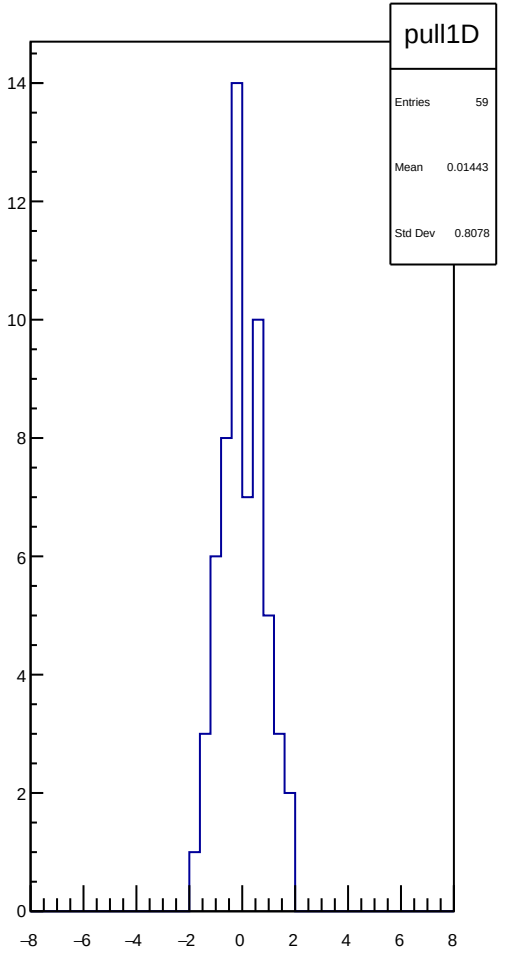

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.46e+04 / 58
p0 246.1 ± 0.2302
1000
900
800
700
600
500
400
300
200

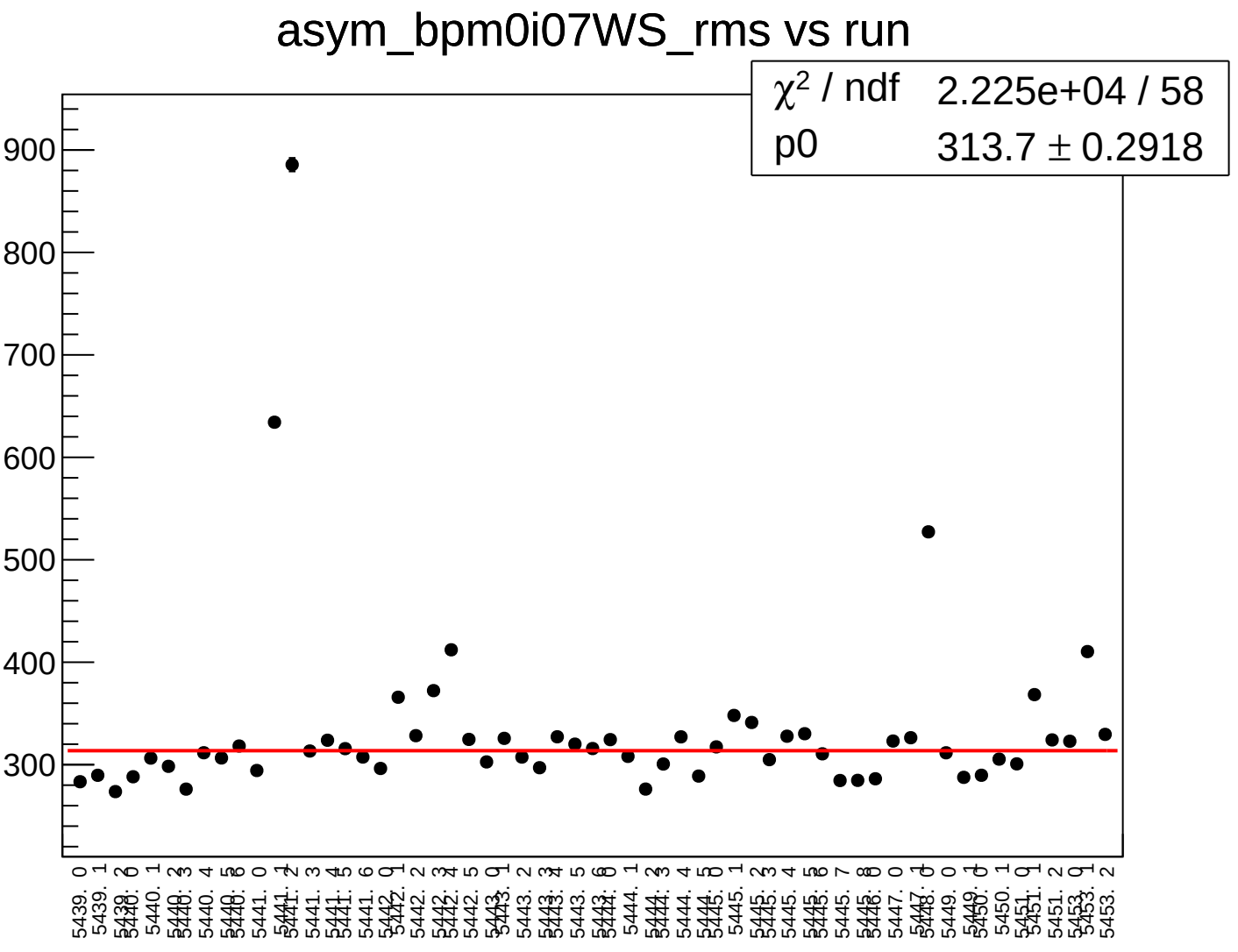

asym_bpm0i05WS_mean vs run
χ² / ndf 75.02 / 58
p0 −5447 ± 376
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean 123.2
Std Dev 91.31
4
3
2
1
0
−1
−2

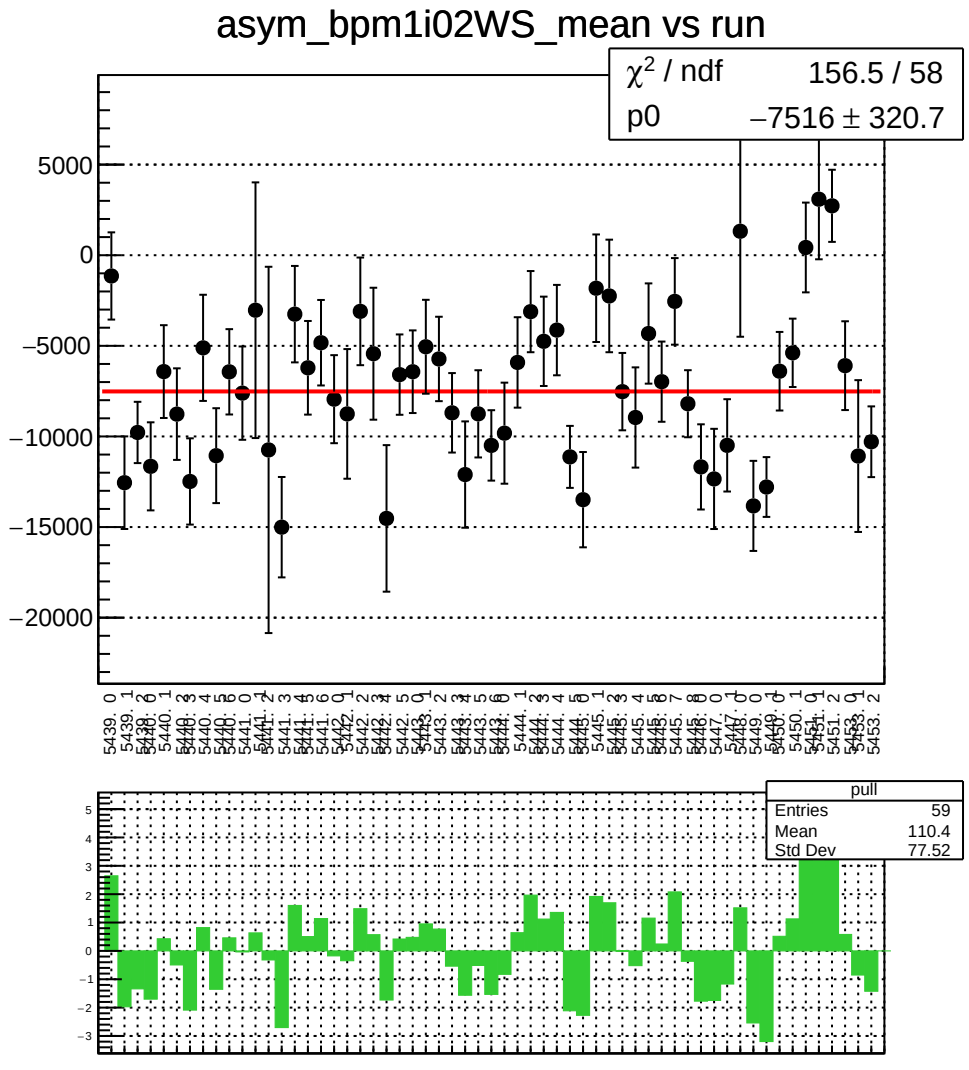

pull1D
Entries 59
Mean 0.04004
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

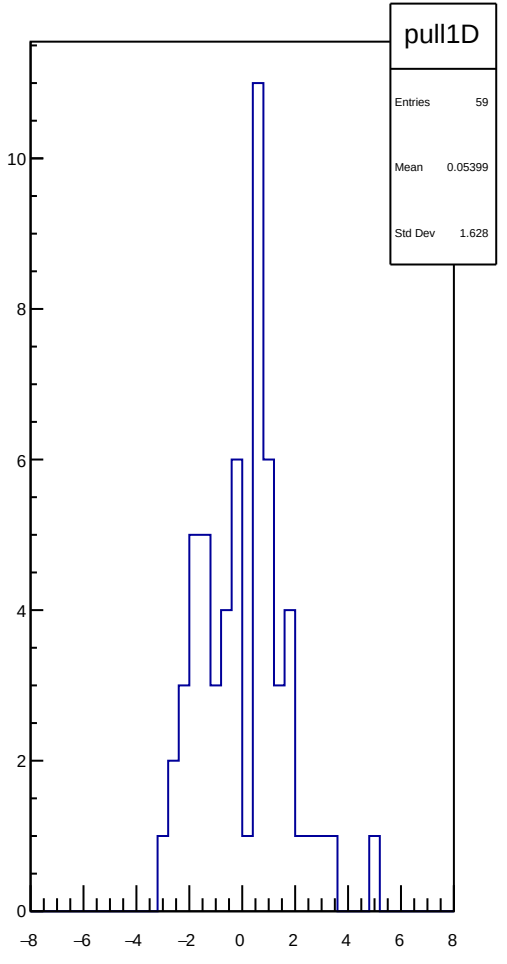

asym_bpm0i05WS_rms vs run
χ² / ndf 2.643e+04 / 58
p0 285.3 ± 0.2658
900
800
700
600
500
400
300
200

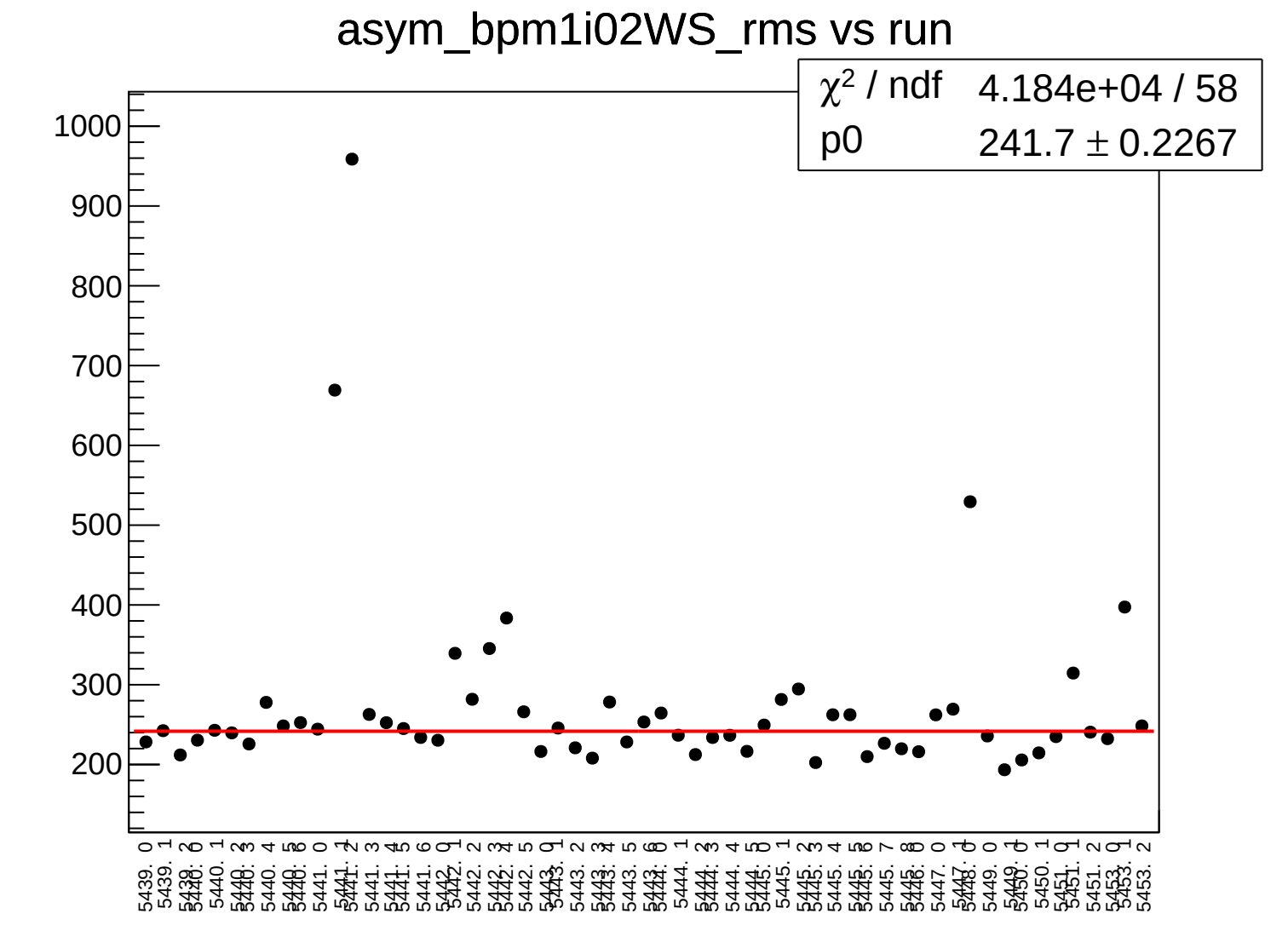

asym_bpm0i07WS_mean vs run
χ² / ndf 38.52 / 58
p0 −207.3 ± 412.6
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −153
Std Dev 186.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

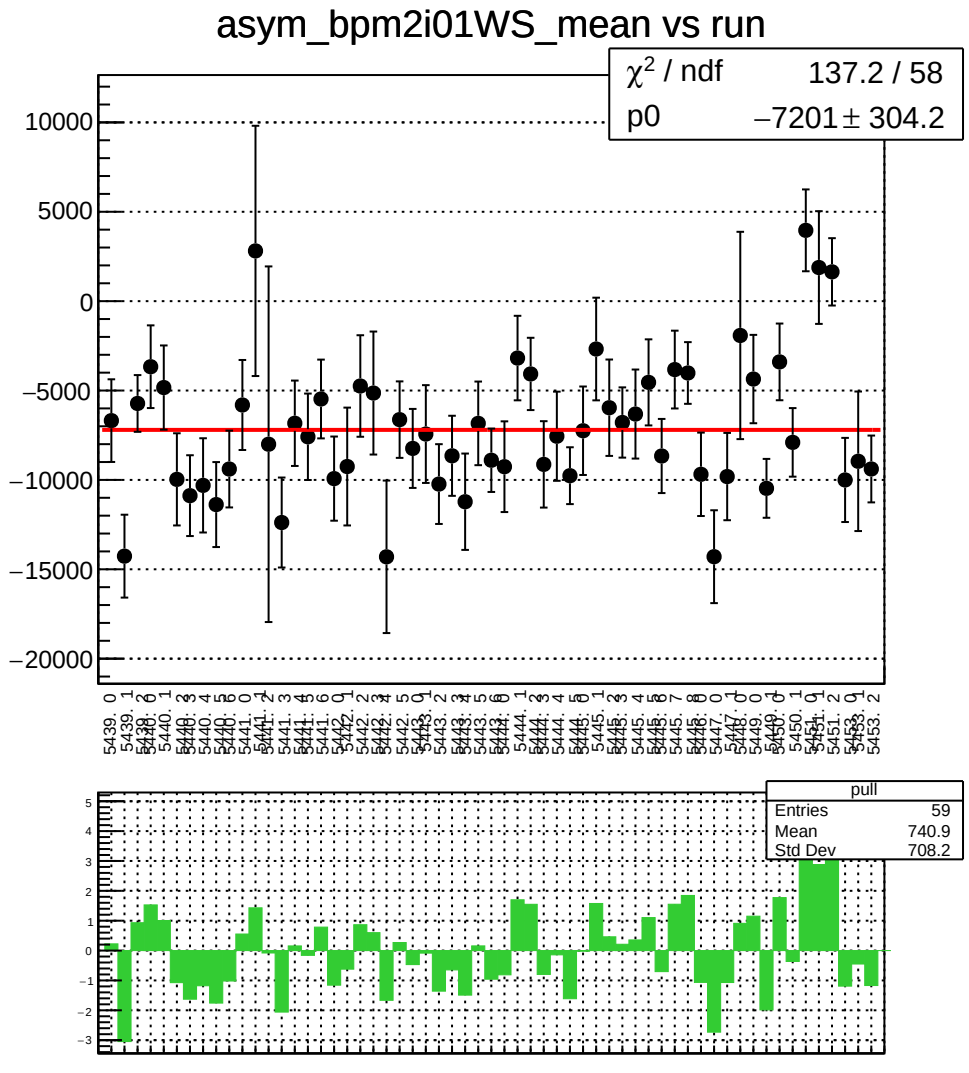

pull1D
Entries 59
Mean 0.01443
Std Dev 0.8078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

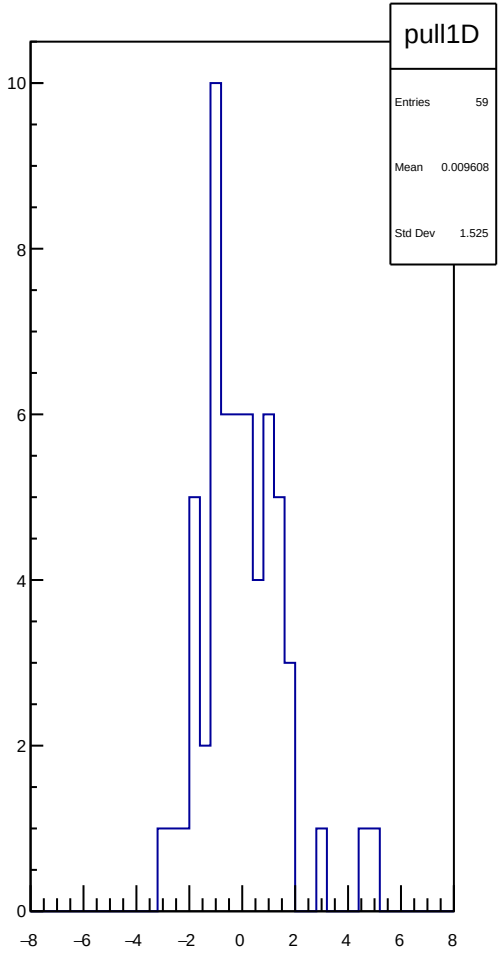

asym_bpm0i07WS_rms vs run
χ² / ndf 2.225e+04 / 58
p0 313.7 ± 0.2918
900
800
700
600
500
400
300

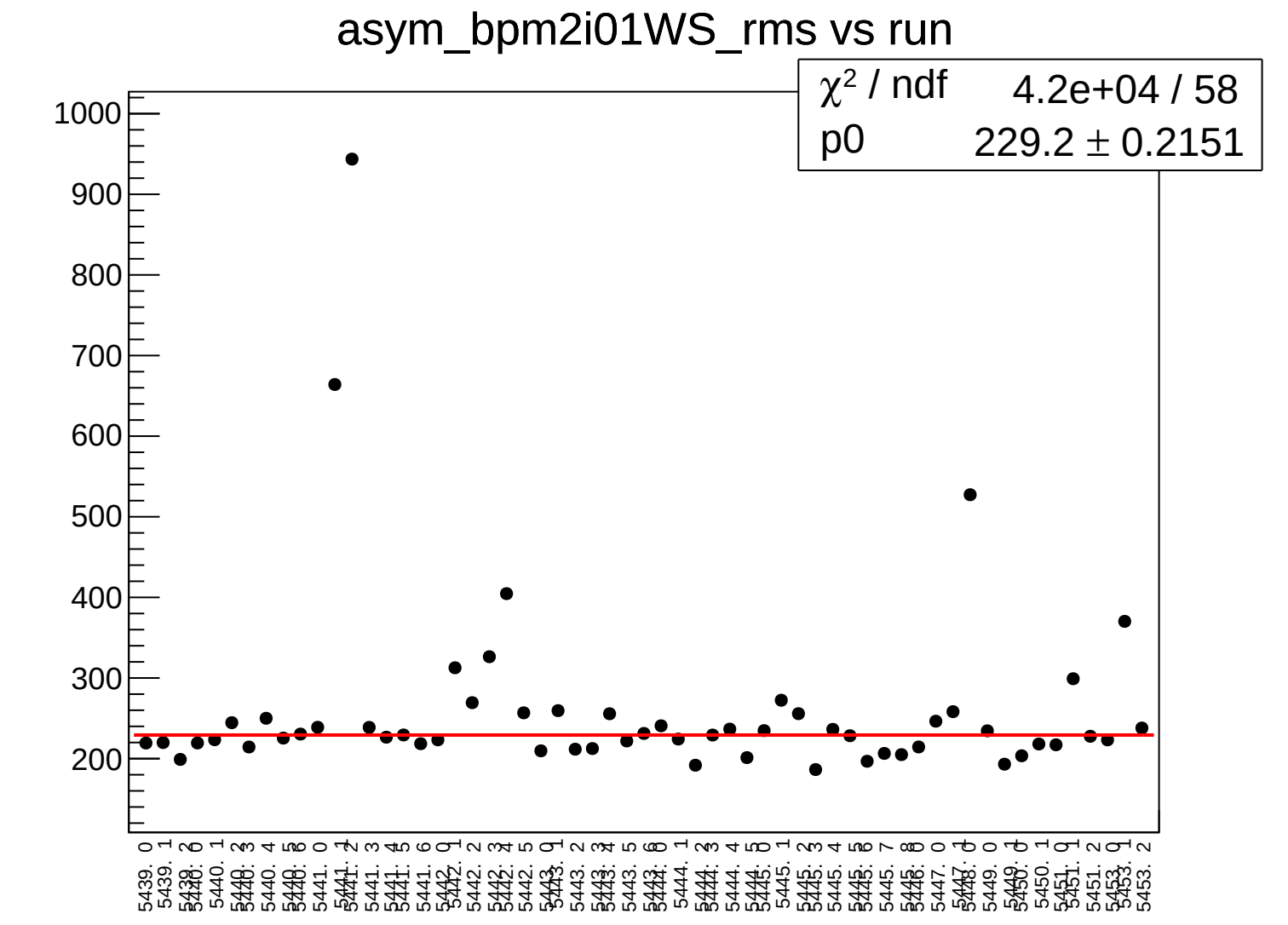

asym_bpm1i02WS_mean vs run
χ² / ndf 156.5 / 58
p0 −7516 ± 320.7
5000
0
−5000
−10000
−15000
−20000
pull
Entries 59
Mean 110.4
Std Dev 77.52
5
4
3
2
1
0
−1
−2
−3

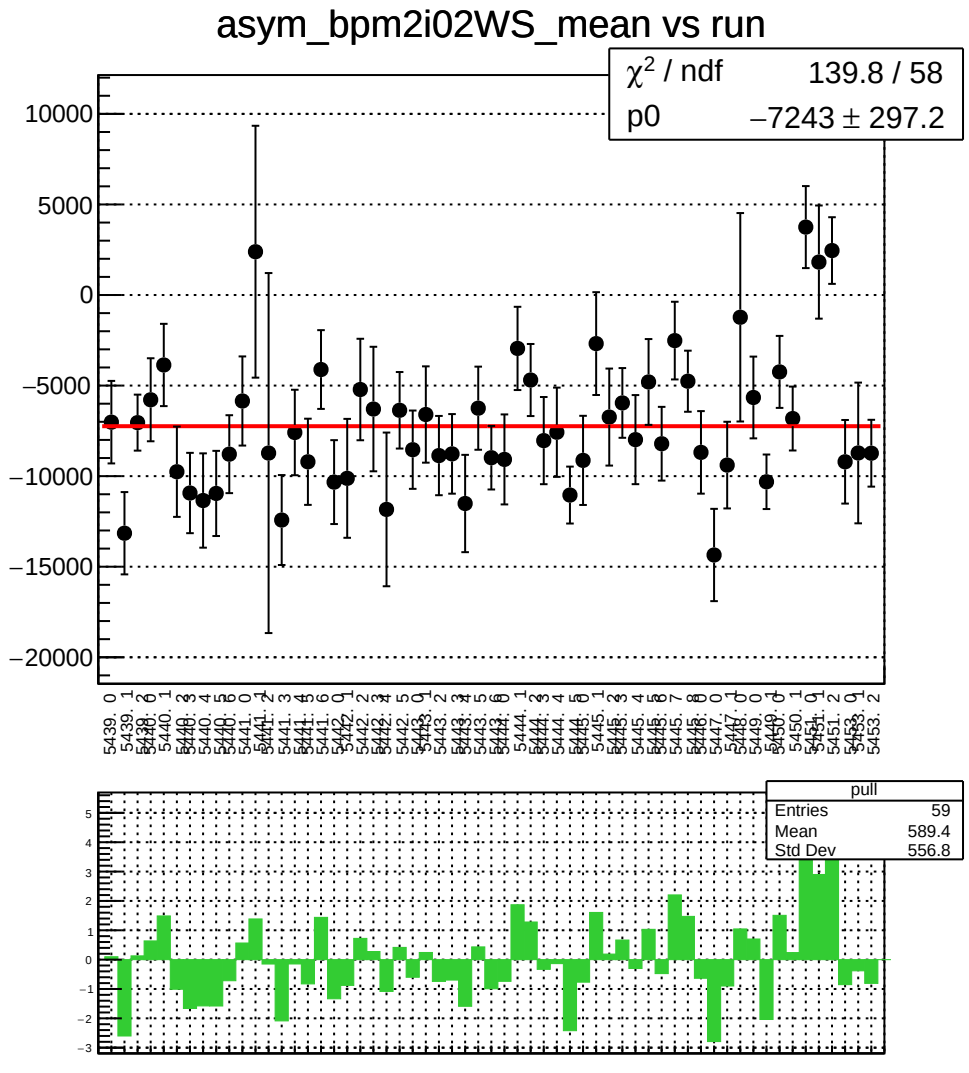

pull1D
Entries 59
Mean 0.05399
Std Dev 1.628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

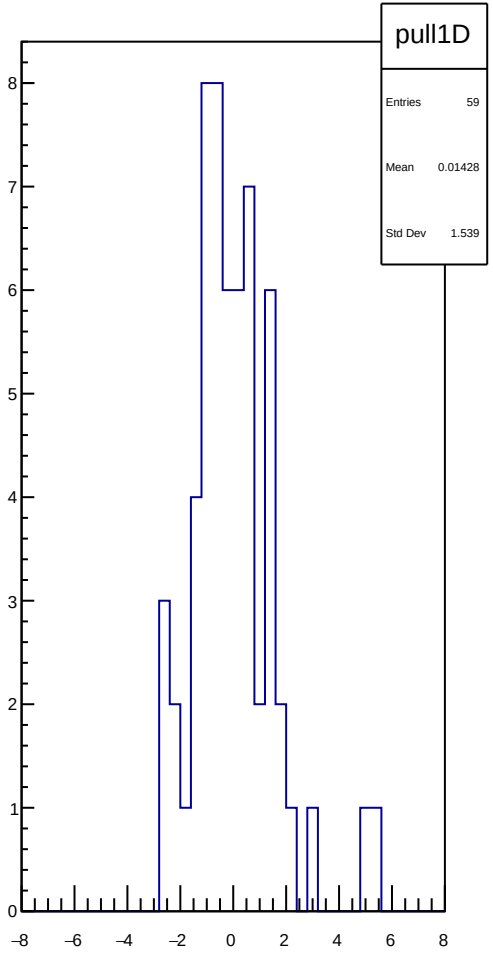

asym_bpm1i02WS_rms vs run
χ² / ndf 4.184e+04 / 58
p0 241.7 ± 0.2267
1000
900
800
700
600
500
400
300
200

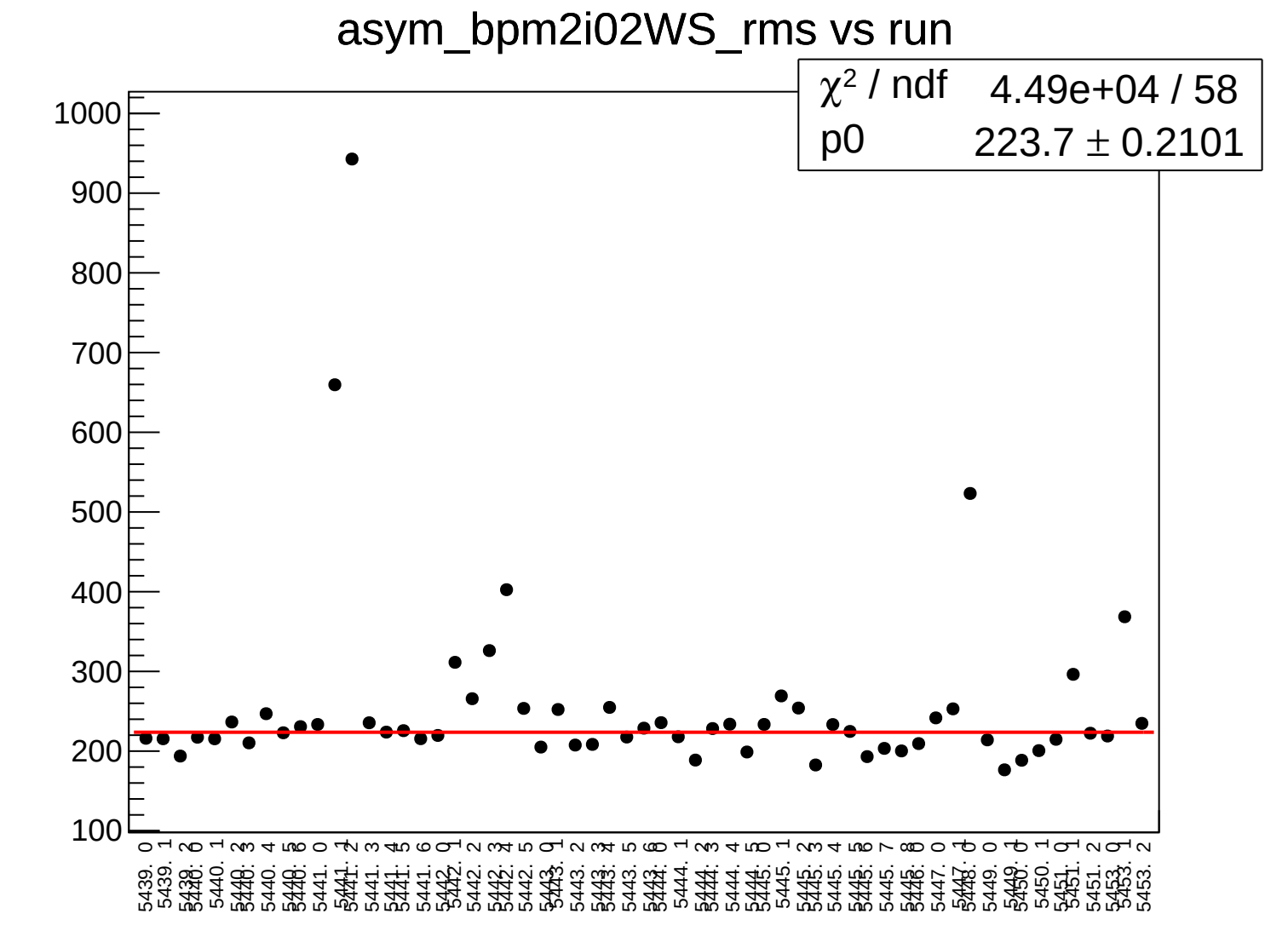

asym_bpm2i01WS_mean vs run
χ² / ndf 137.2 / 58
p0 −7201 ± 304.2
pull
Entries 59
Mean 740.9
Std Dev 708.2

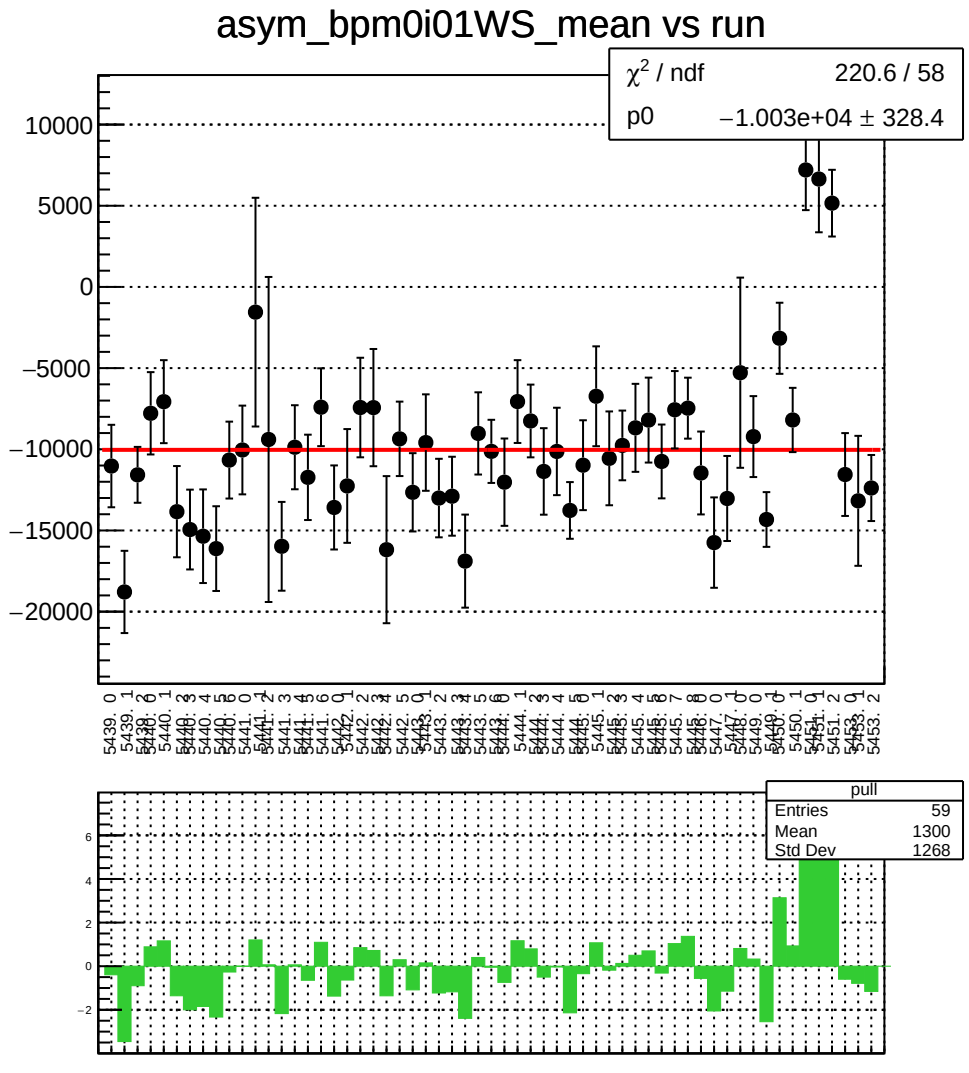

pull1D
Entries 59
Mean 0.009608
Std Dev 1.525

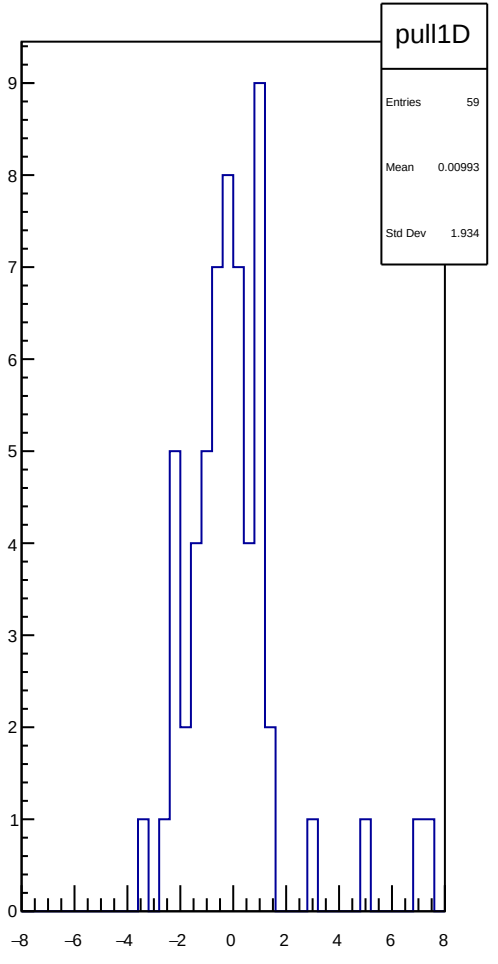

asym_bpm2i01WS_rms vs run
χ² / ndf 4.2e+04 / 58
p0 229.2 ± 0.2151
1000
900
800
700
600
500
400
300
200

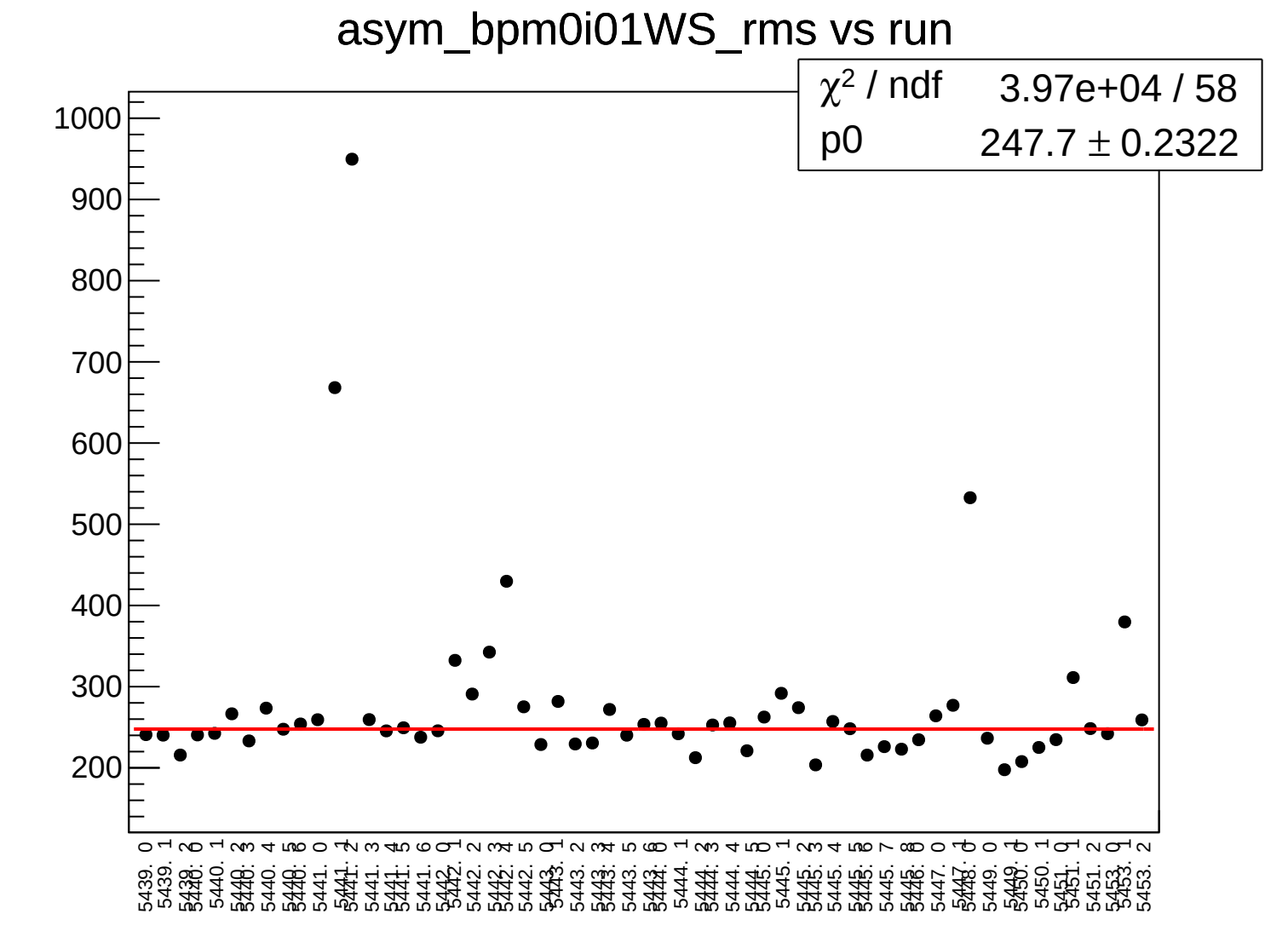

asym_bpm2i02WS_mean vs run
χ² / ndf 139.8 / 58
p0 −7243 ± 297.2
pull
Entries 59
Mean 589.4
Std Dev 556.8

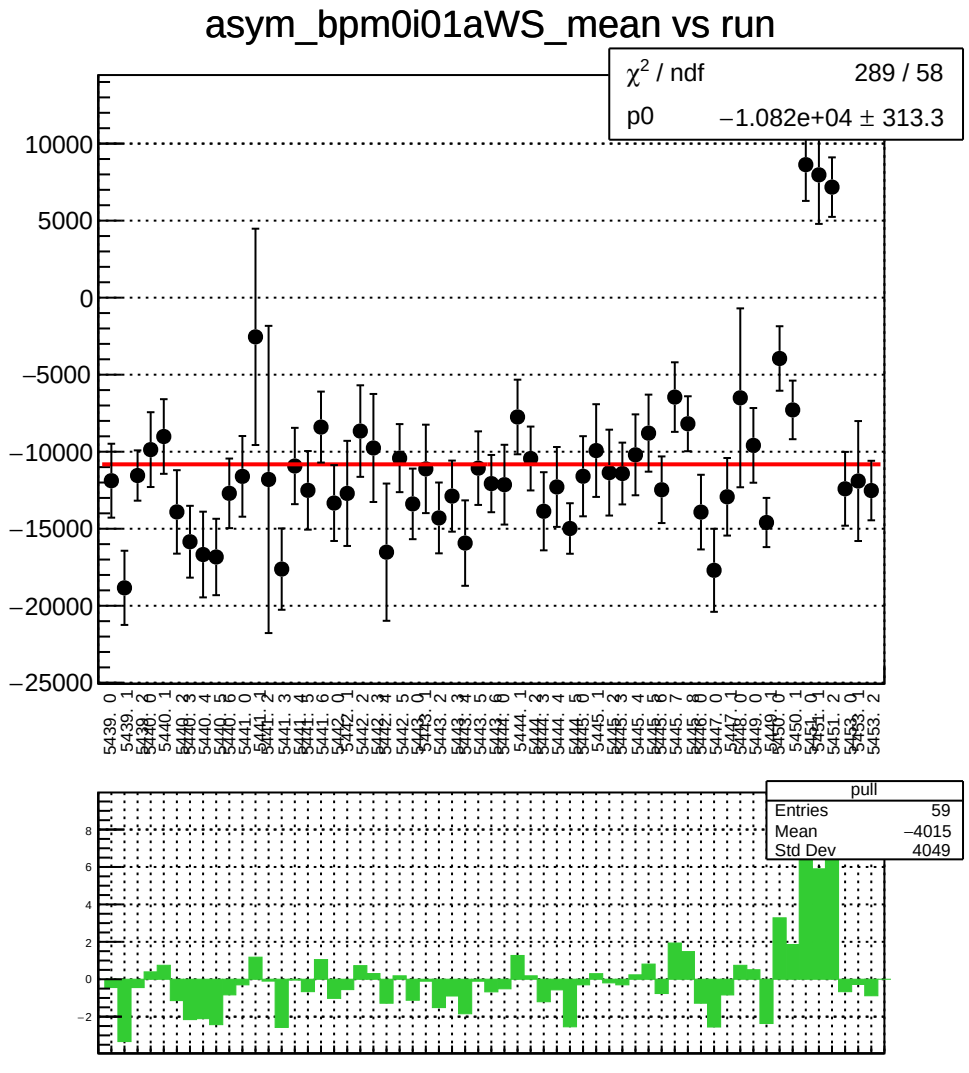

pull1D
Entries 59
Mean 0.01428
Std Dev 1.539

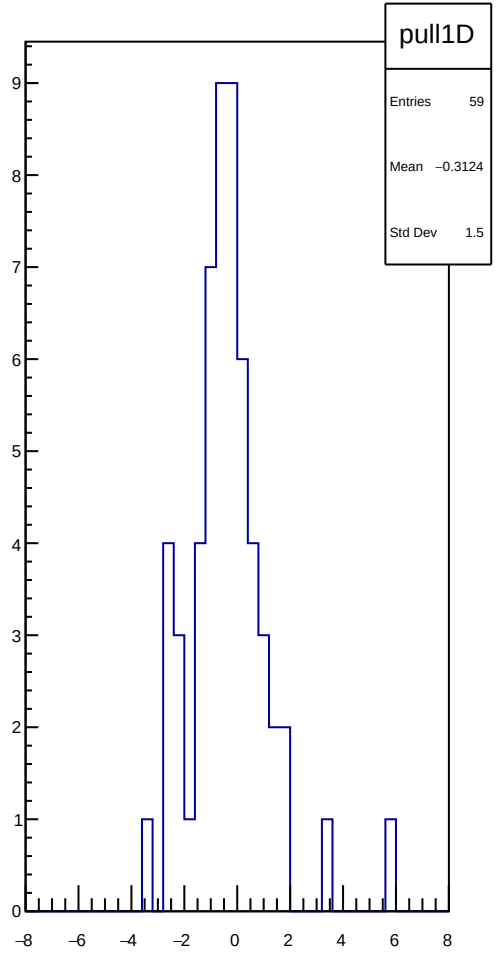

asym_bpm2i02WS_rms vs run
χ² / ndf 4.49e+04 / 58
p0 223.7 ± 0.2101
1000
900
800
700
600
500
400
300
200
100

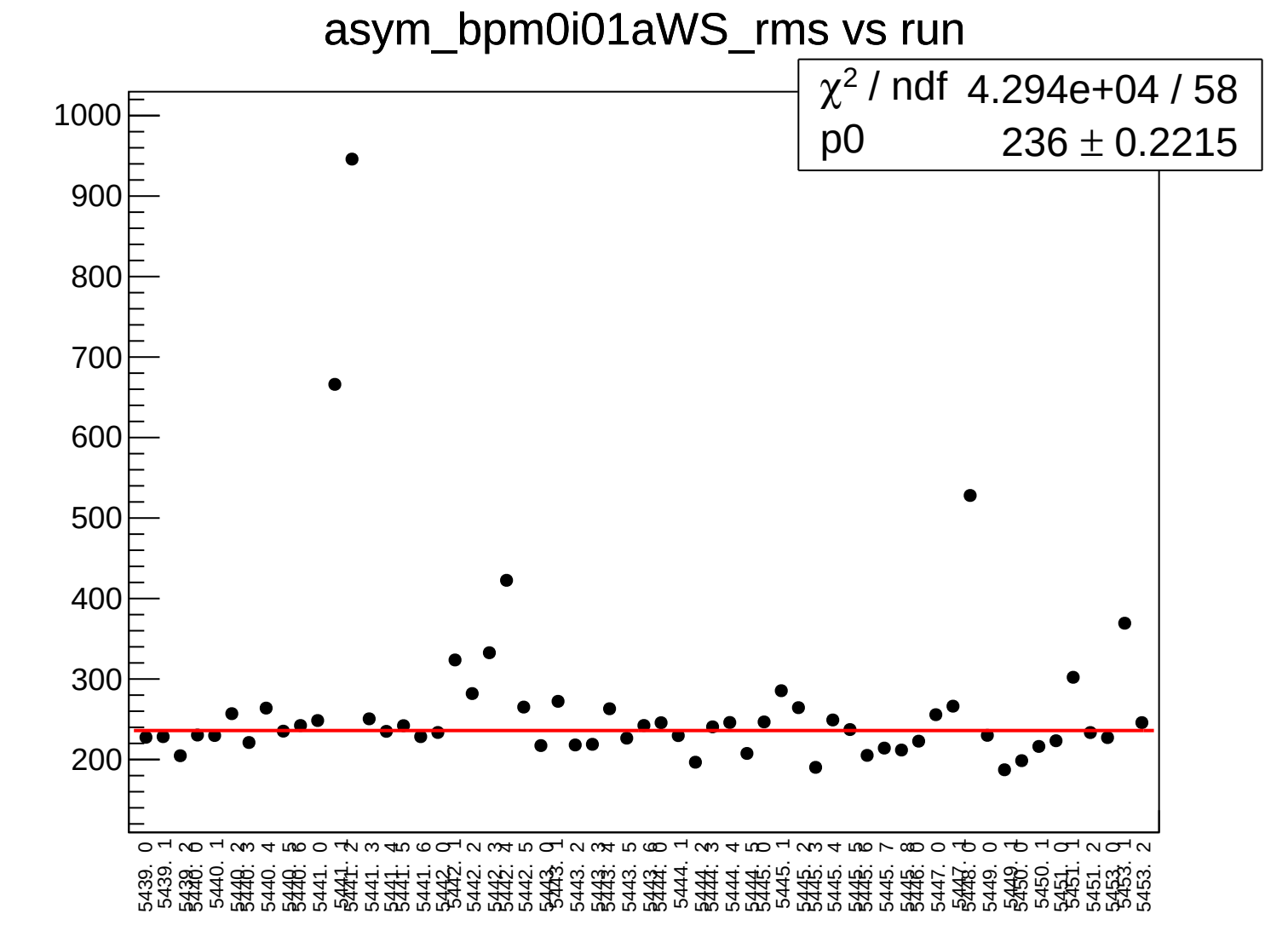

asym_bpm0i01WS_mean vs run
χ² / ndf 220.6 / 58
p0 −1.003e+04 ± 328.4
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 59
Mean 1300
Std Dev 1268
6
4
2
0
−2

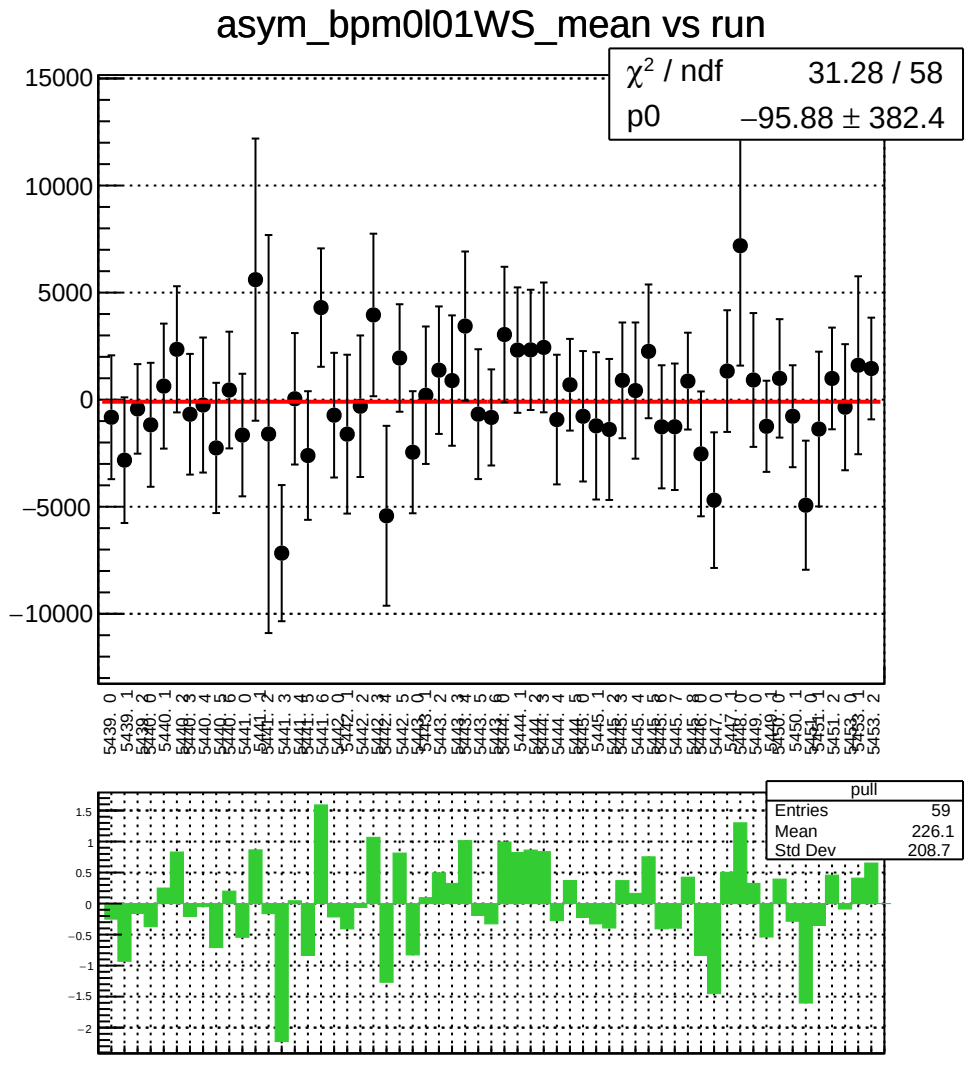

pull1D
Entries 59
Mean 0.00993
Std Dev 1.934
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

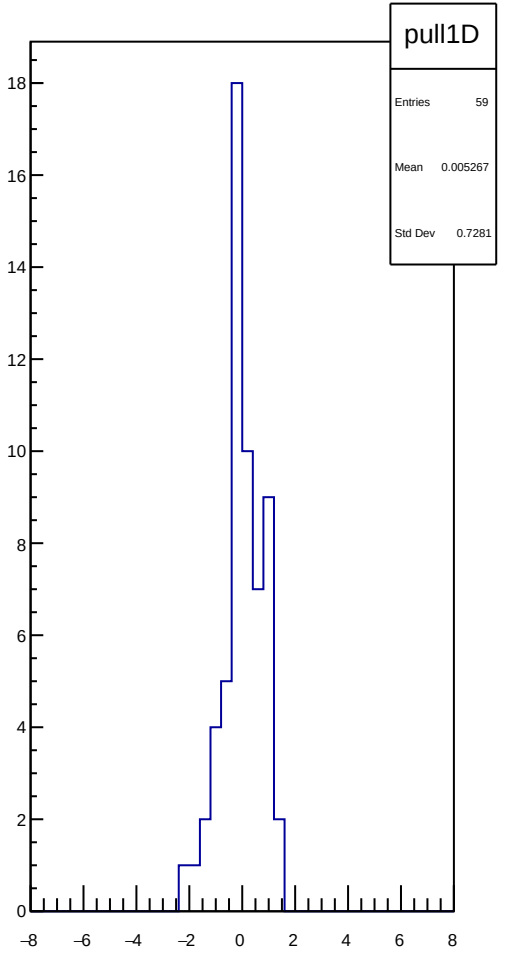

asym_bpm0i01WS_rms vs run
χ² / ndf 3.97e+04 / 58
p0 247.7 ± 0.2322
1000
900
800
700
600
500
400
300
200

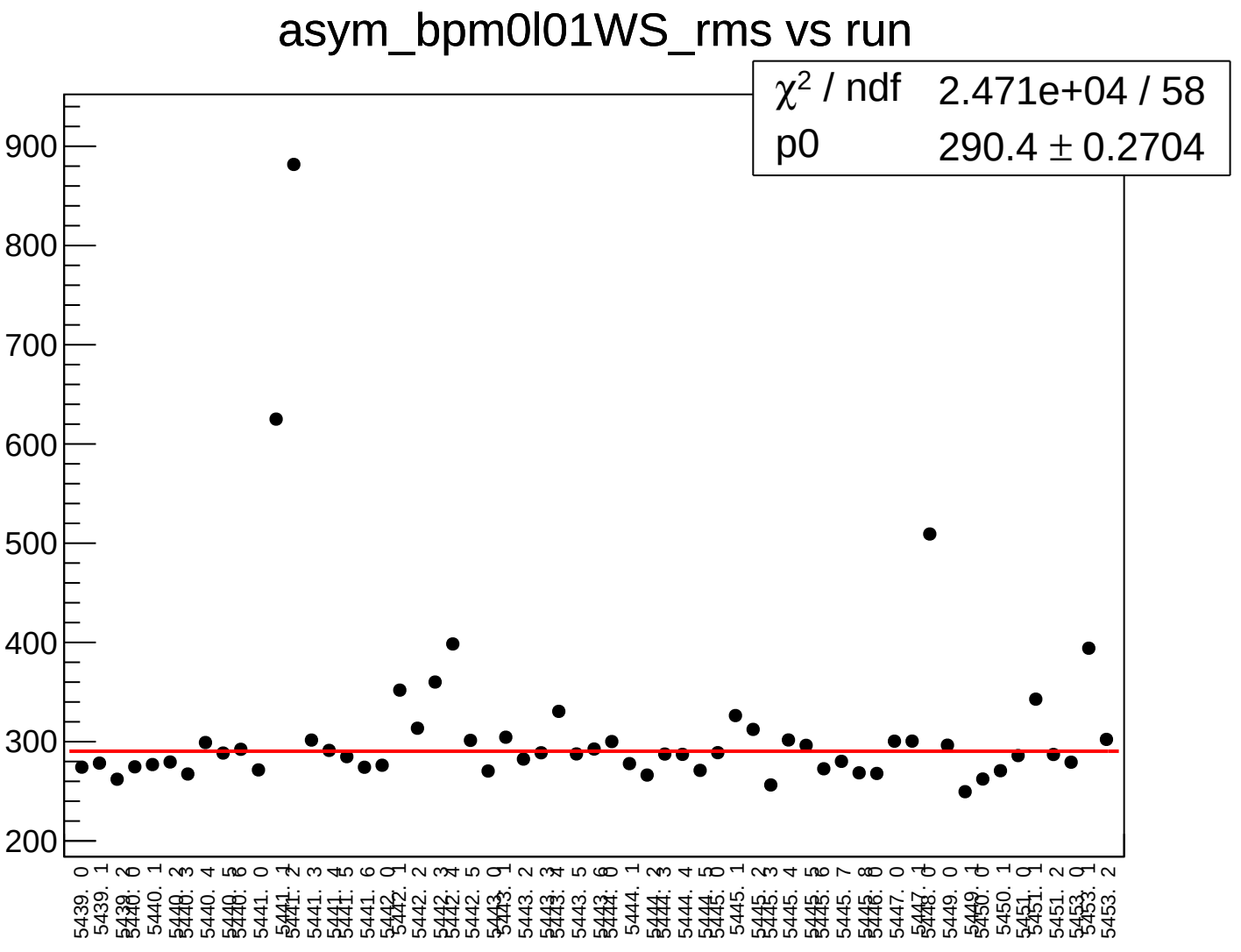

asym_bpm0i01aWS_mean vs run
χ² / ndf 289 / 58
p0 −1.082e+04 ± 313.3
pull
Entries 59
Mean −4015
Std Dev 4049

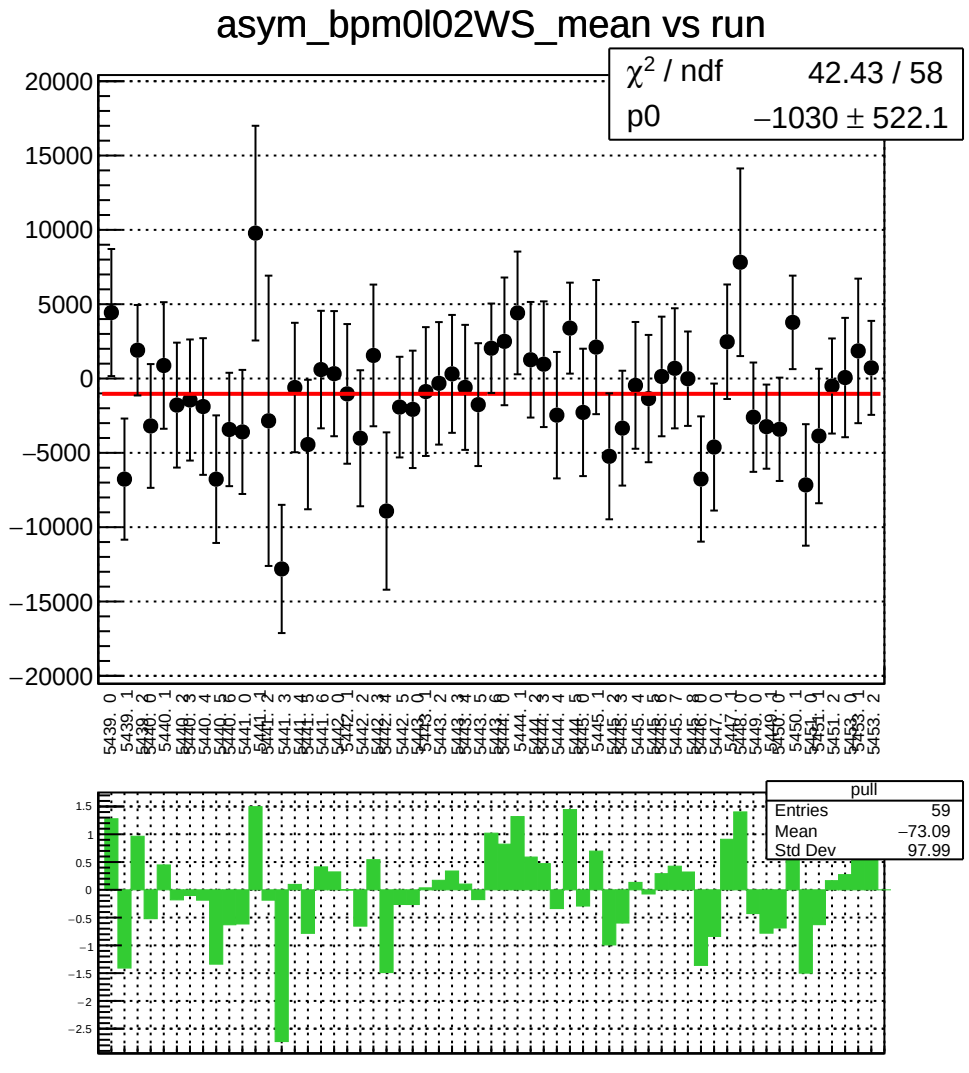

pull1D
Entries 59
Mean −0.3124
Std Dev 1.5

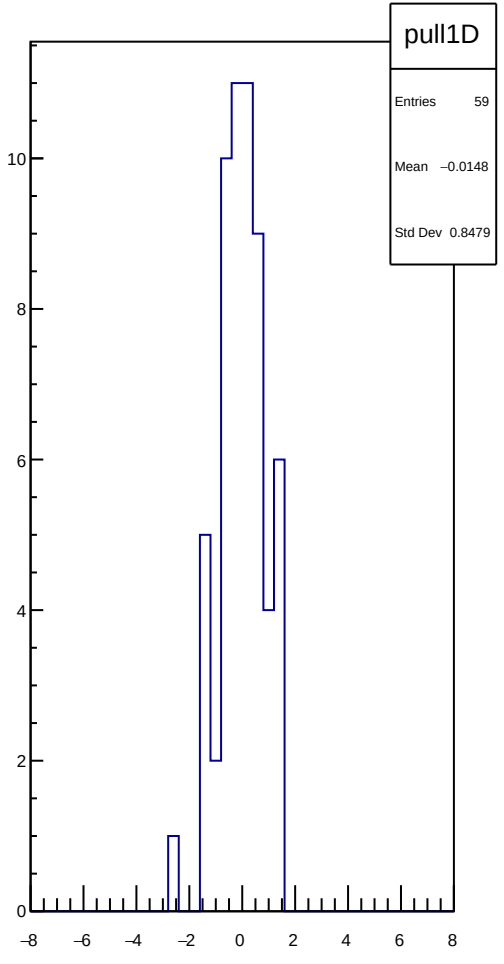

asym_bpm0i01aWS_rms vs run
χ² / ndf 4.294e+04 / 58
p0 236 ± 0.2215
1000
900
800
700
600
500
400
300
200

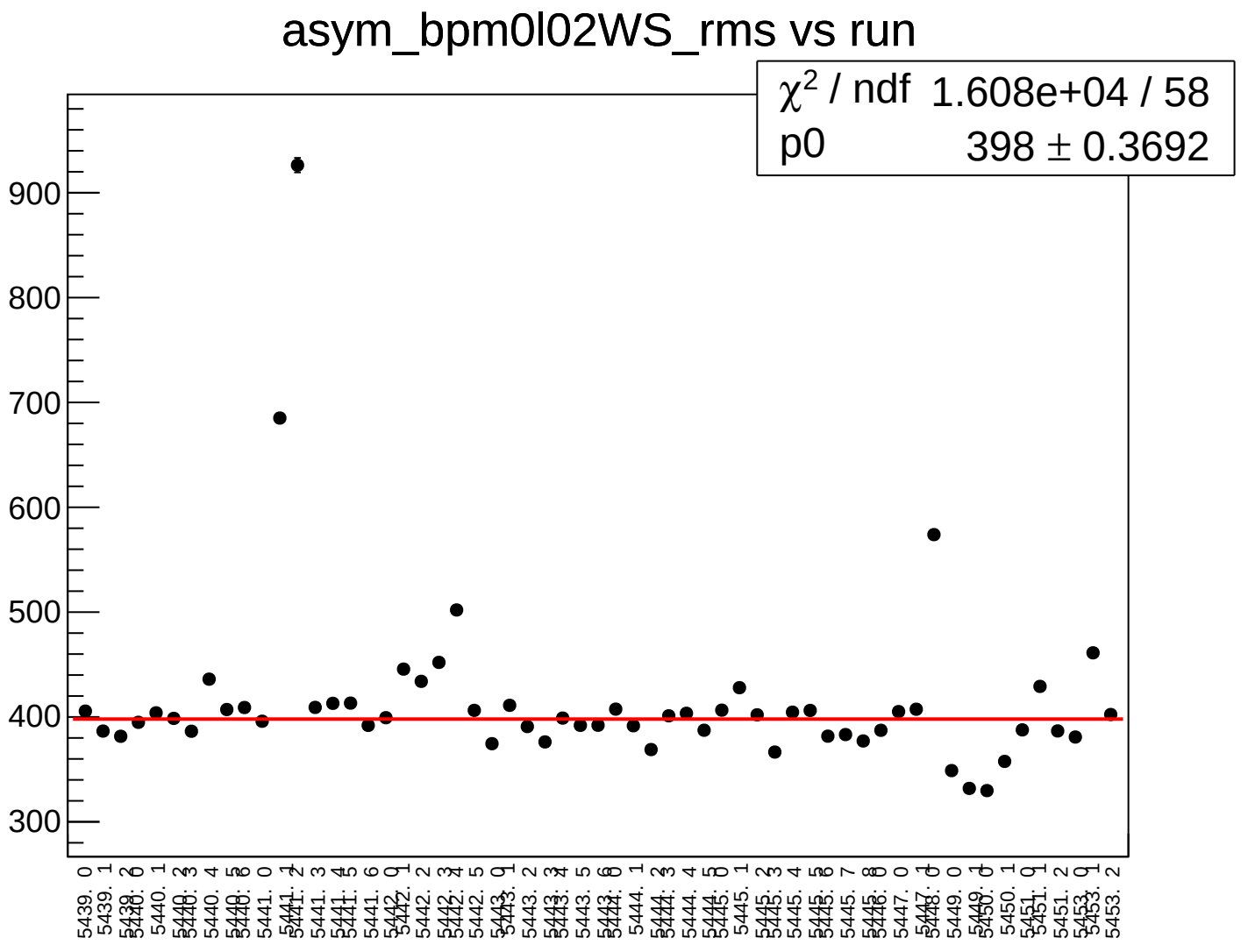

asym_bpm0l01WS_mean vs run
χ² / ndf 31.28 / 58
p0 −95.88 ± 382.4
pull
Entries 59
Mean 226.1
Std Dev 208.7

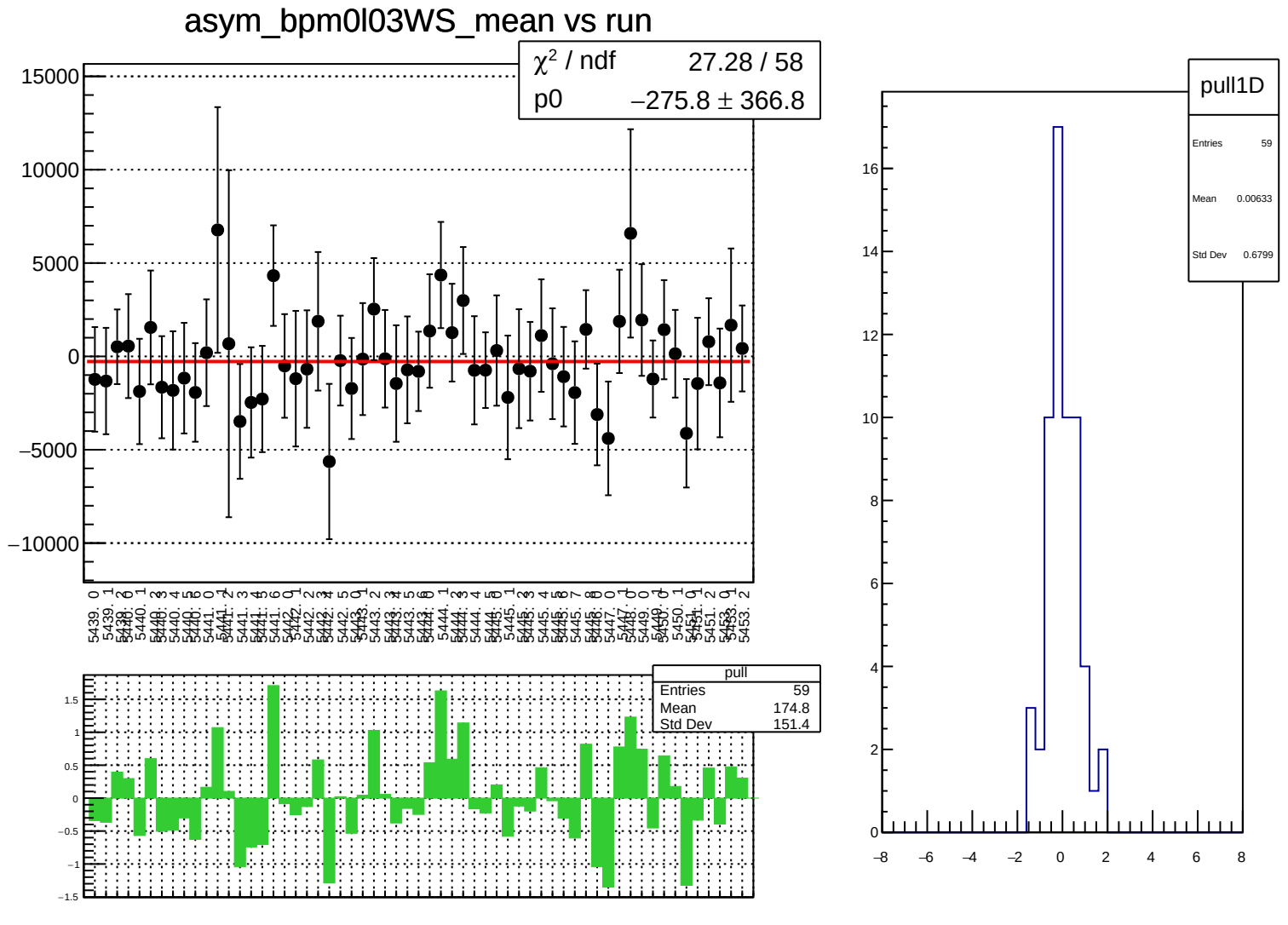

pull1D
Entries 59
Mean 0.005267
Std Dev 0.7281

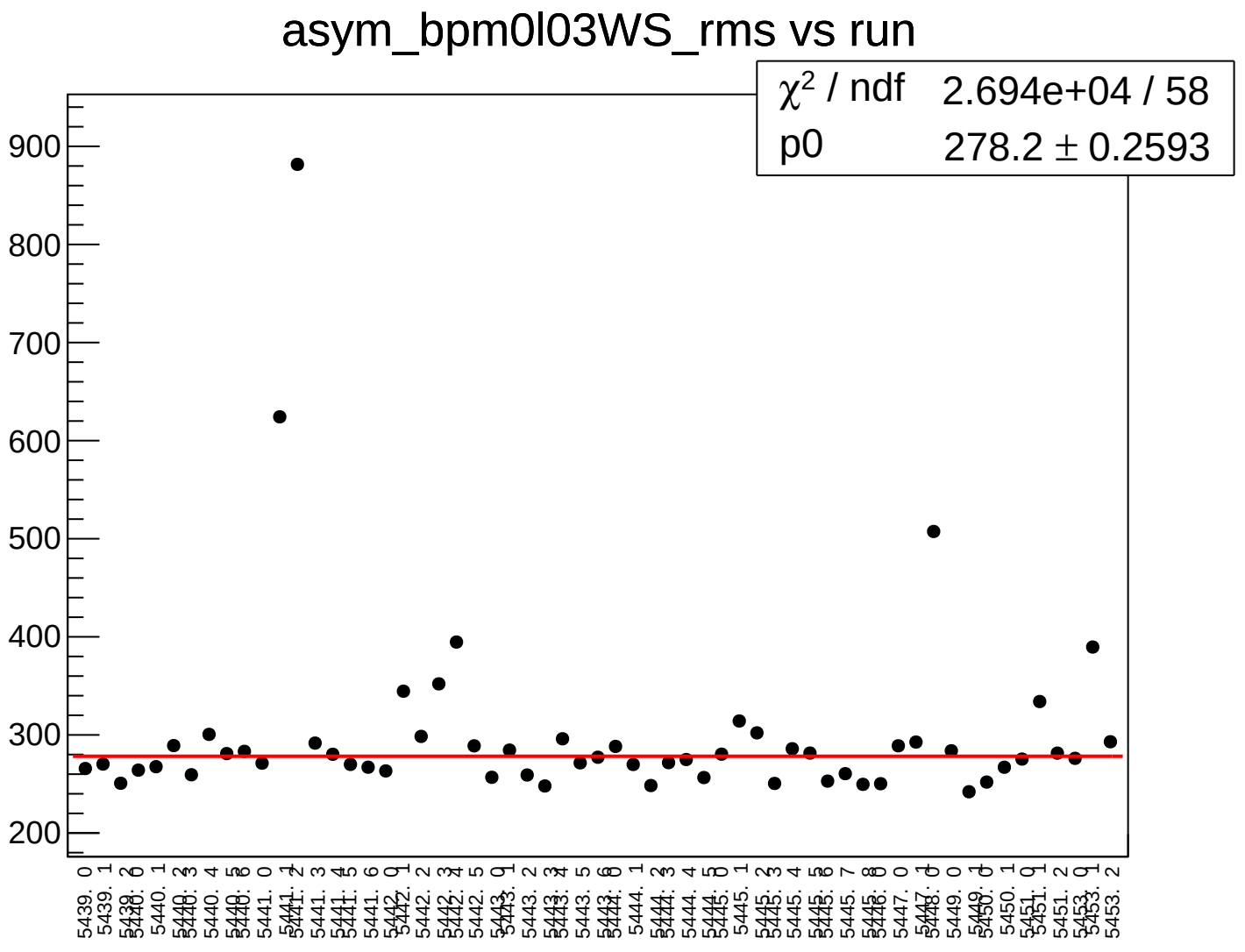

asym_bpm0l01WS_rms vs run
χ² / ndf 2.471e+04 / 58
p0 290.4 ± 0.2704
900
800
700
600
500
400
300
200

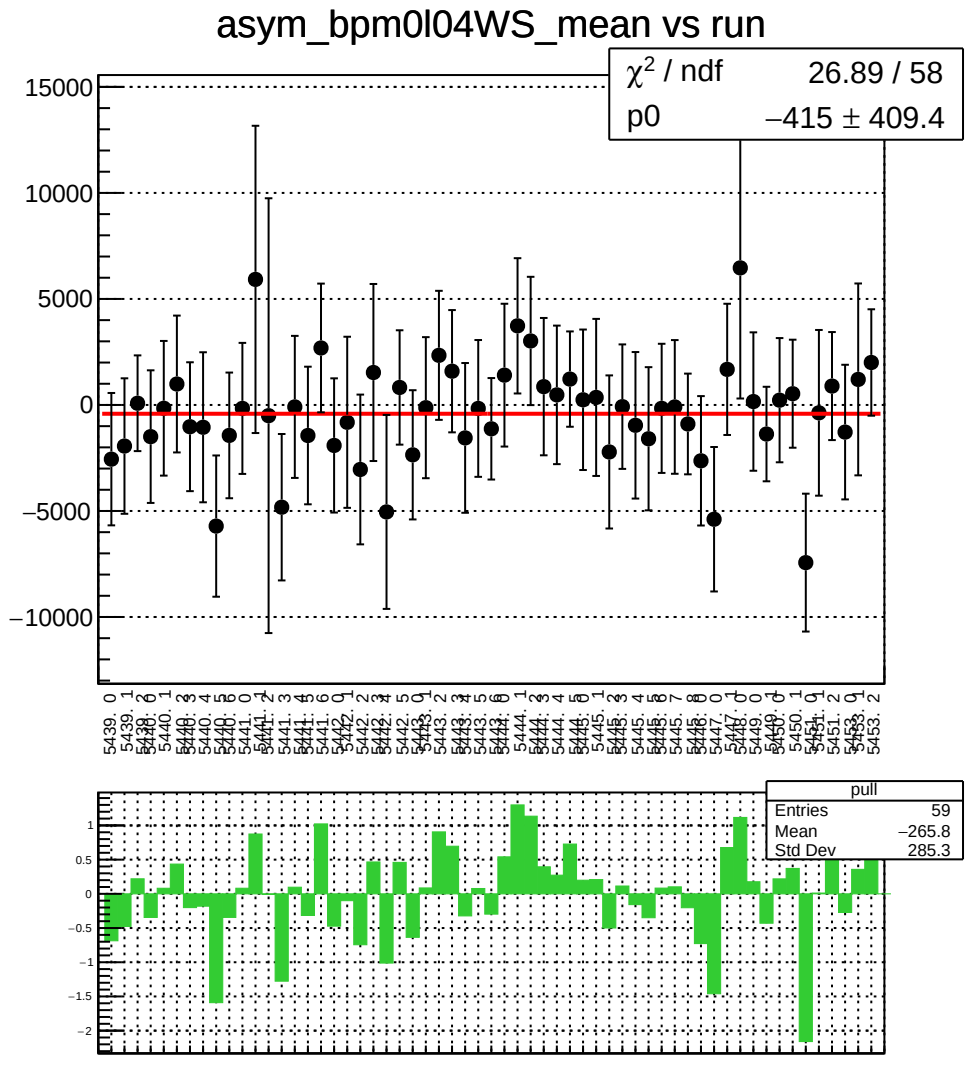

asym_bpm0l02WS_mean vs run
χ² / ndf 42.43 / 58
p0 −1030 ± 522.1
pull
Entries 59
Mean −73.09
Std Dev 97.99

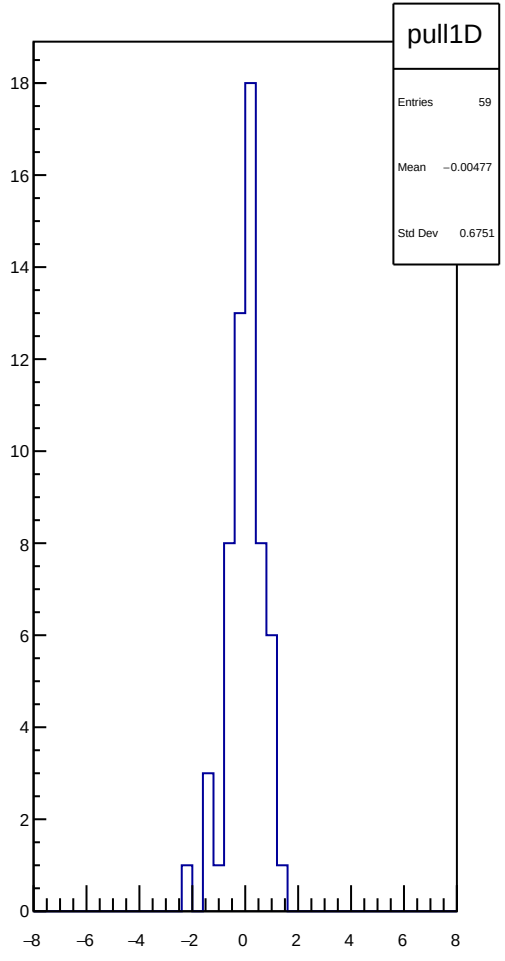

pull1D
Entries 59
Mean −0.0148
Std Dev 0.8479

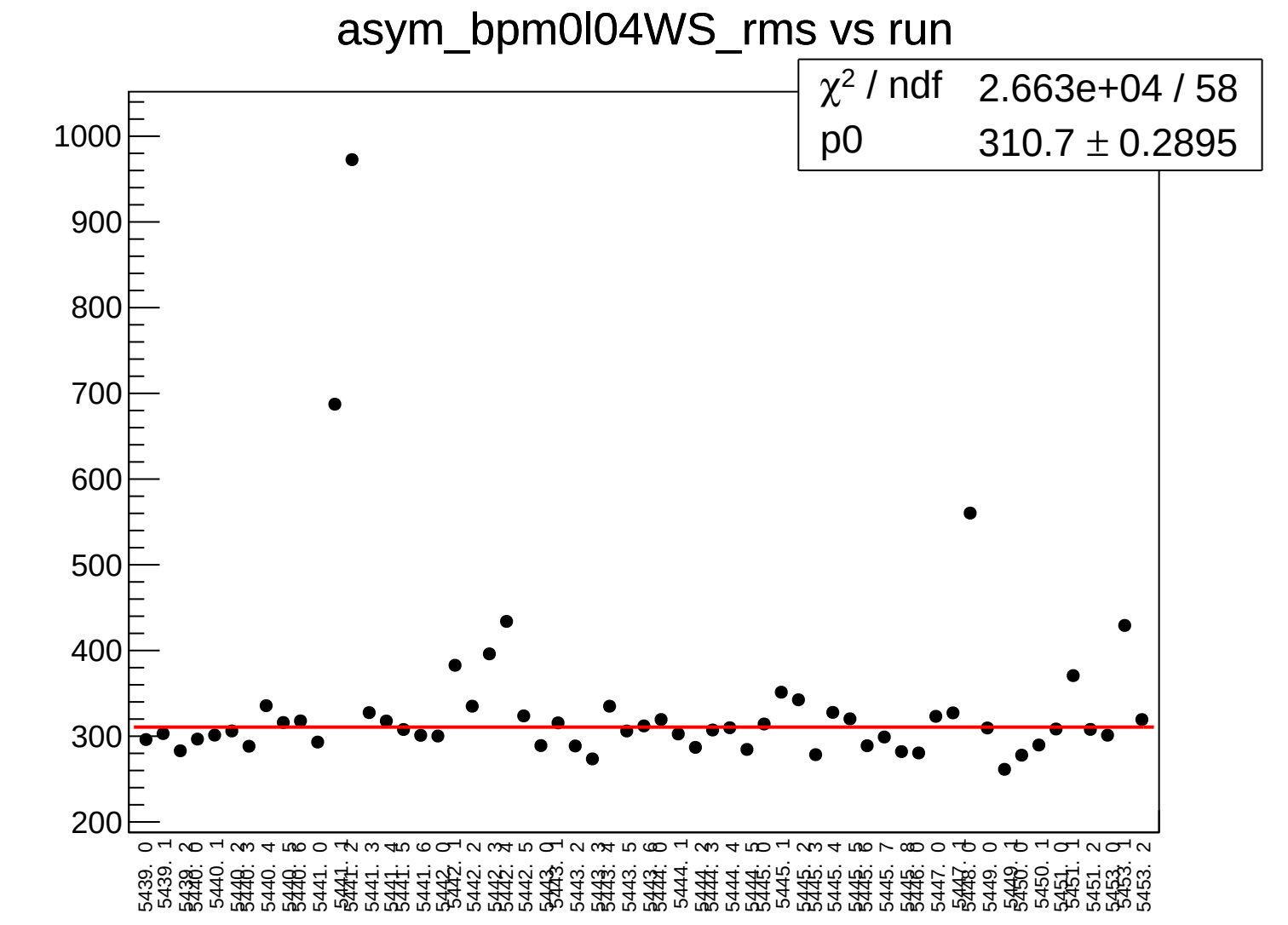

asym_bpm0l02WS_rms vs run
χ² / ndf 1.608e+04 / 58
p0 398 ± 0.3692
900
800
700
600
500
400
300

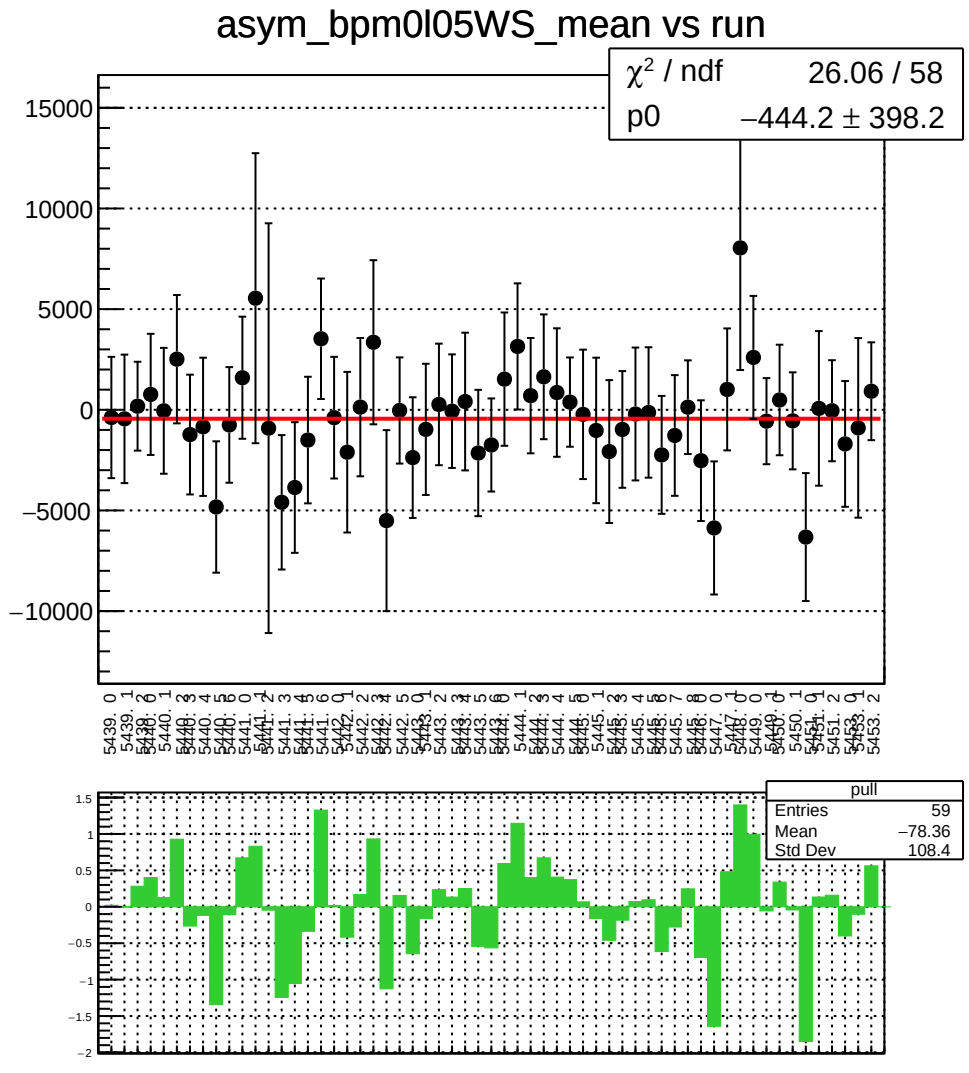

asym_bpm0l03WS_mean vs run
χ² / ndf 27.28 / 58
p0 −275.8 ± 366.8
pull
Entries 59
Mean 174.8
Std Dev 151.4
pull1D
Entries 59
Mean 0.00633
Std Dev 0.6799

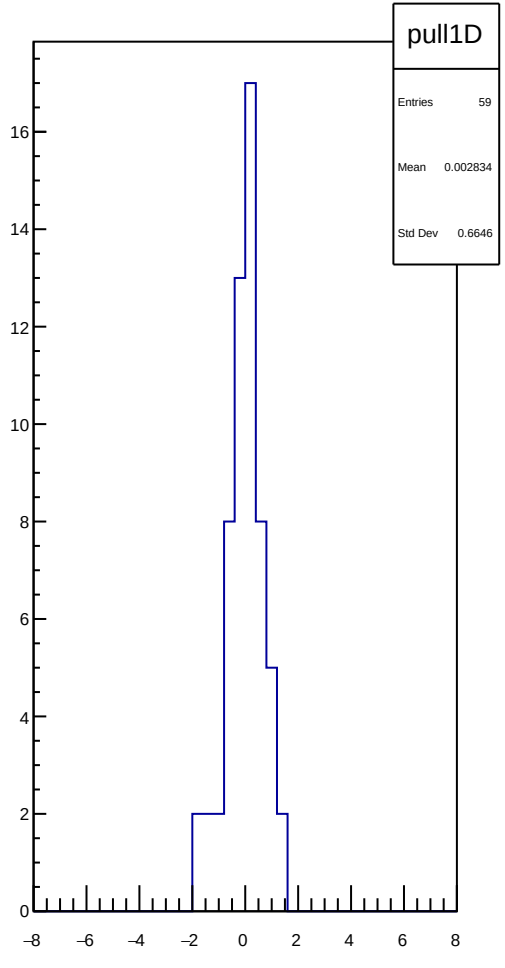

asym_bpm0l03WS_rms vs run
χ² / ndf 2.694e+04 / 58
p0 278.2 ± 0.2593
900
800
700
600
500
400
300
200

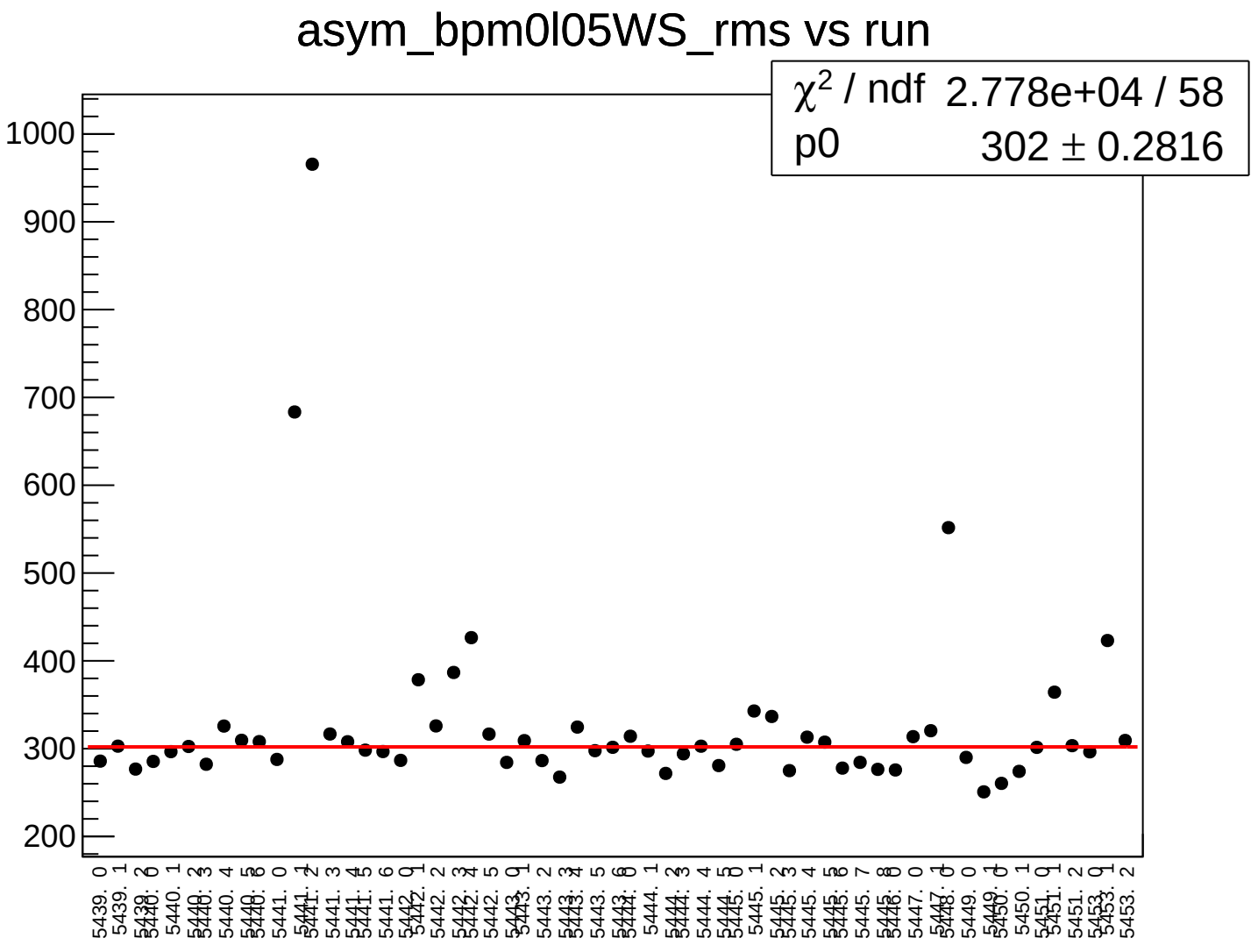

asym_bpm0l04WS_mean vs run
χ² / ndf 26.89 / 58
p0 −415 ± 409.4
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −265.8
Std Dev 285.3
1
0.5
0
−0.5
−1
−1.5
−2

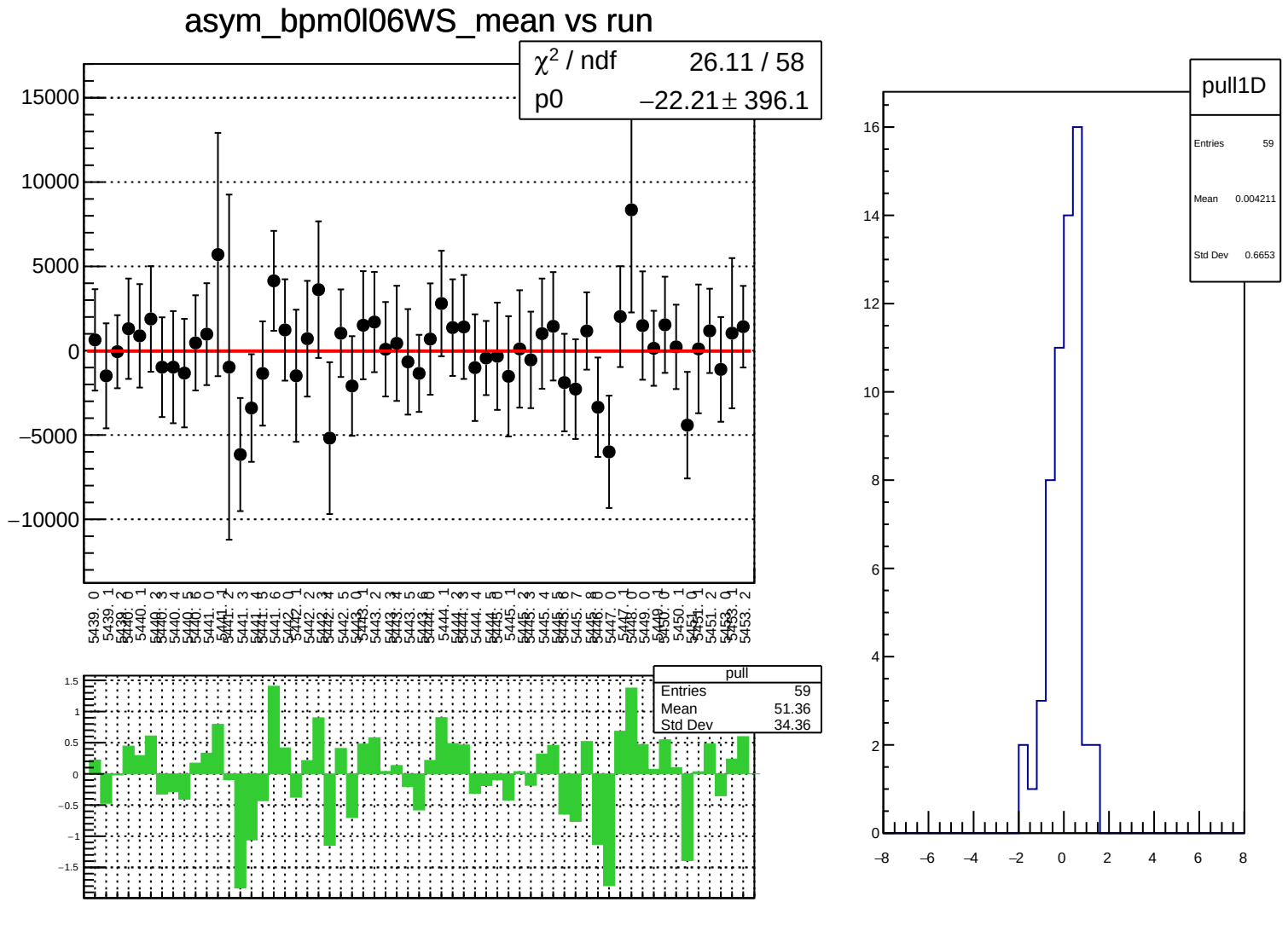

pull1D
Entries 59
Mean −0.00477
Std Dev 0.6751
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

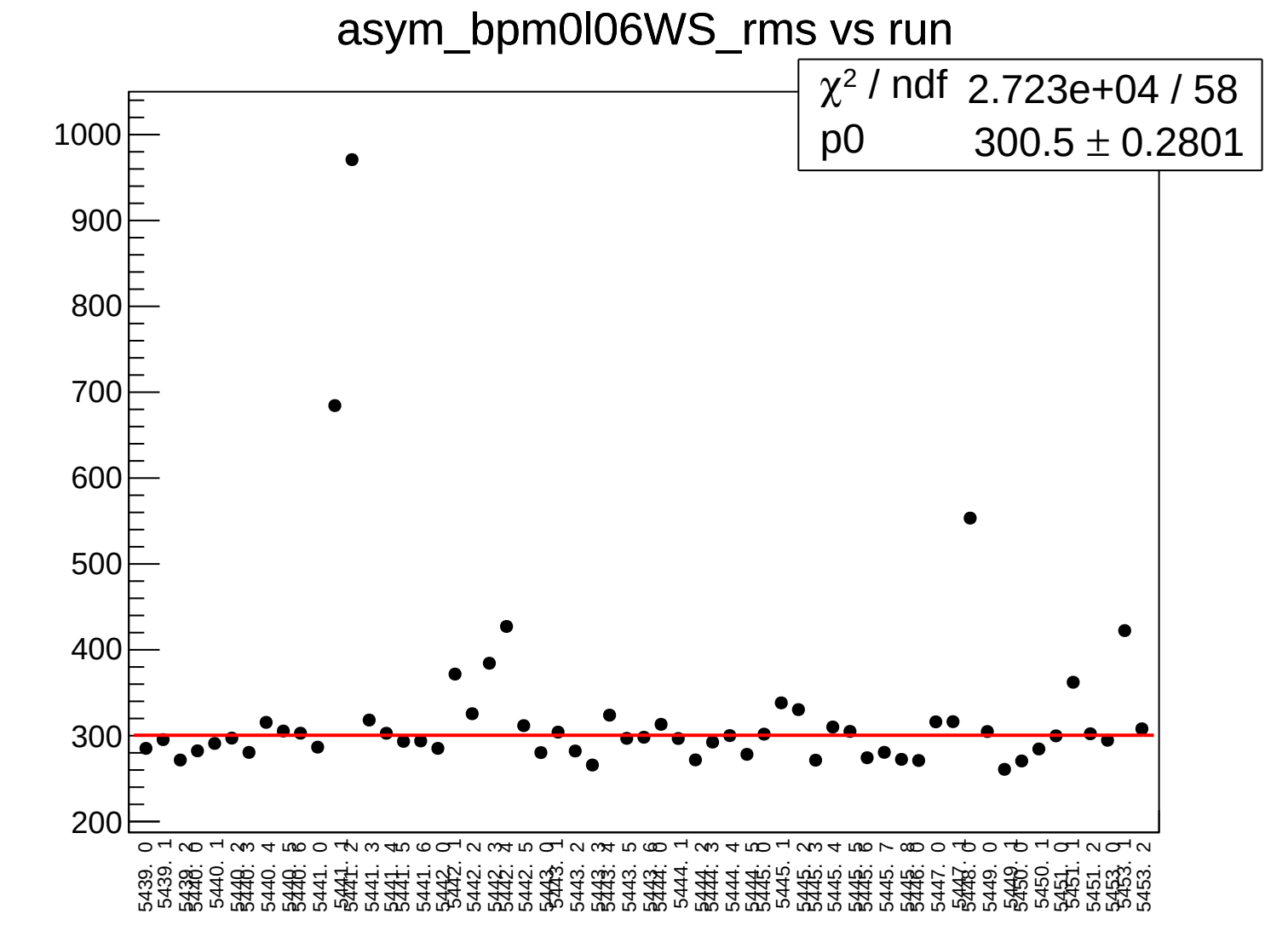

asym_bpm0l04WS_rms vs run
χ² / ndf 2.663e+04 / 58
p0 310.7 ± 0.2895
1000
900
800
700
600
500
400
300
200

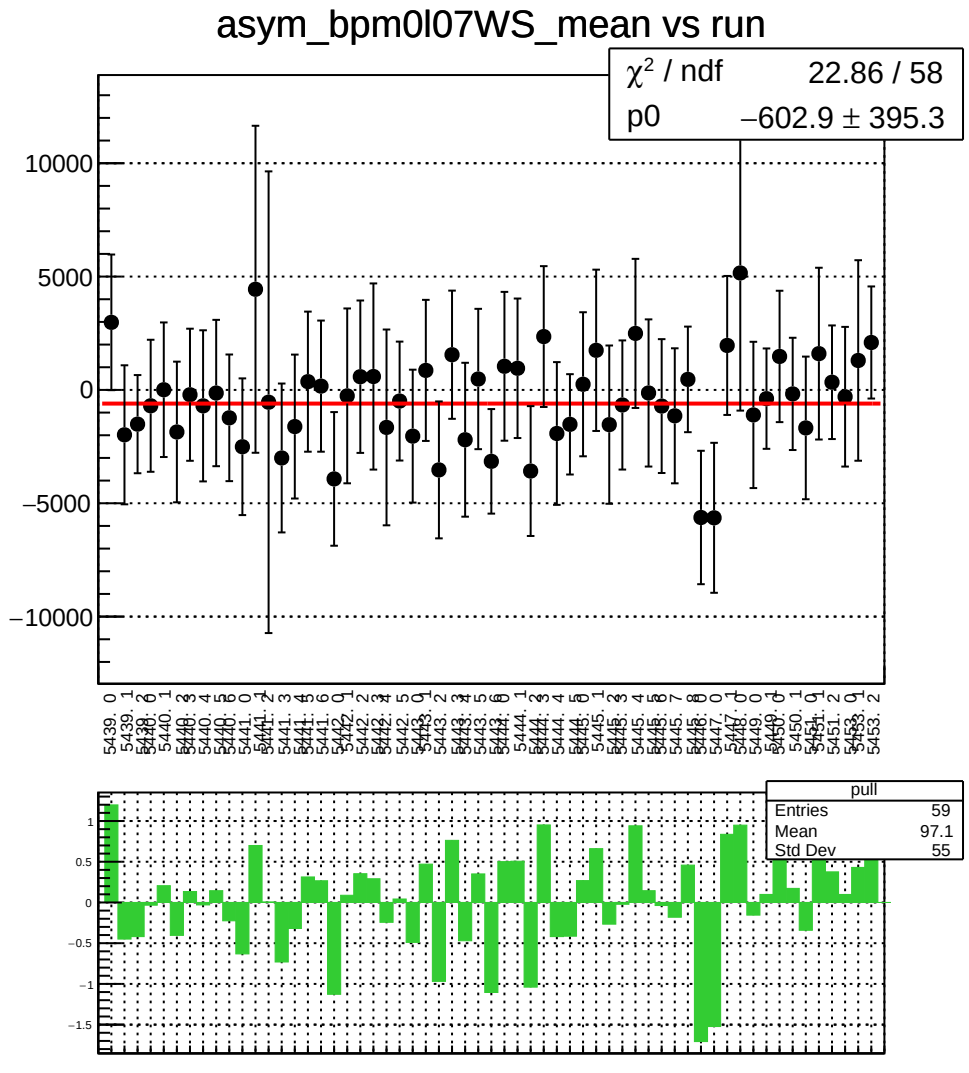

asym_bpm0l05WS_mean vs run
χ² / ndf 26.06 / 58
p0 −444.2 ± 398.2
pull
Entries 59
Mean −78.36
Std Dev 108.4

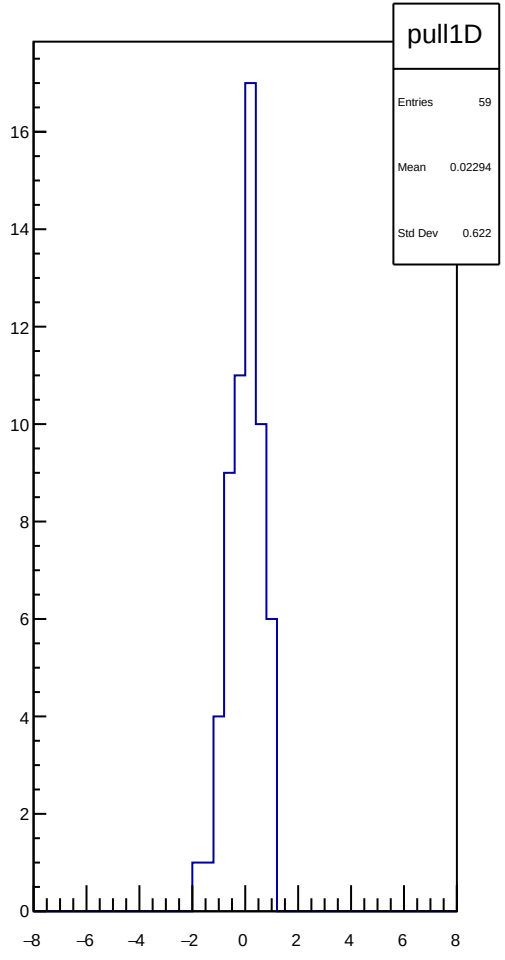

pull1D
Entries 59
Mean 0.002834
Std Dev 0.6646

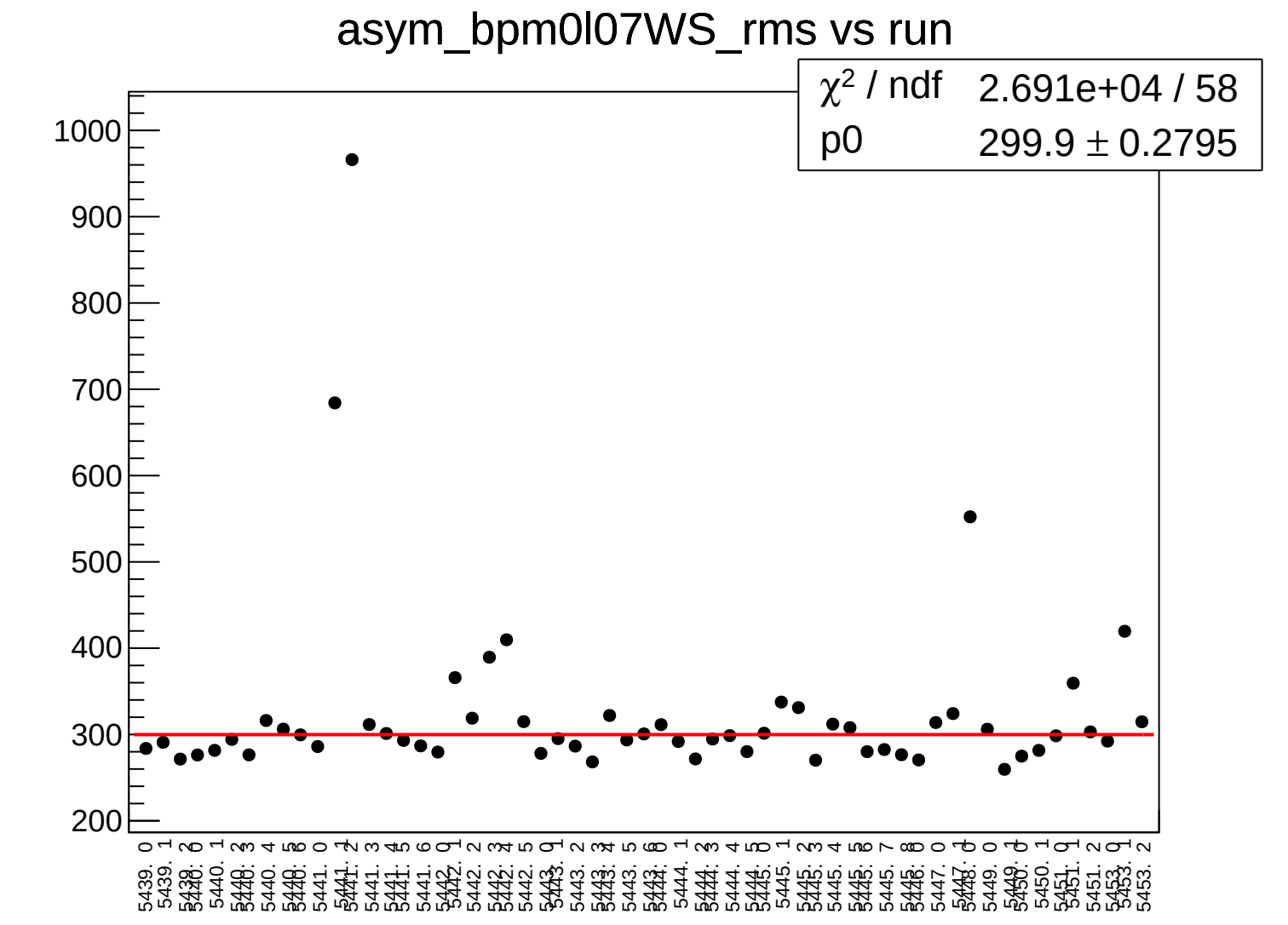

asym_bpm0l05WS_rms vs run
χ² / ndf 2.778e+04 / 58
p0 302 ± 0.2816
1000
900
800
700
600
500
400
300
200

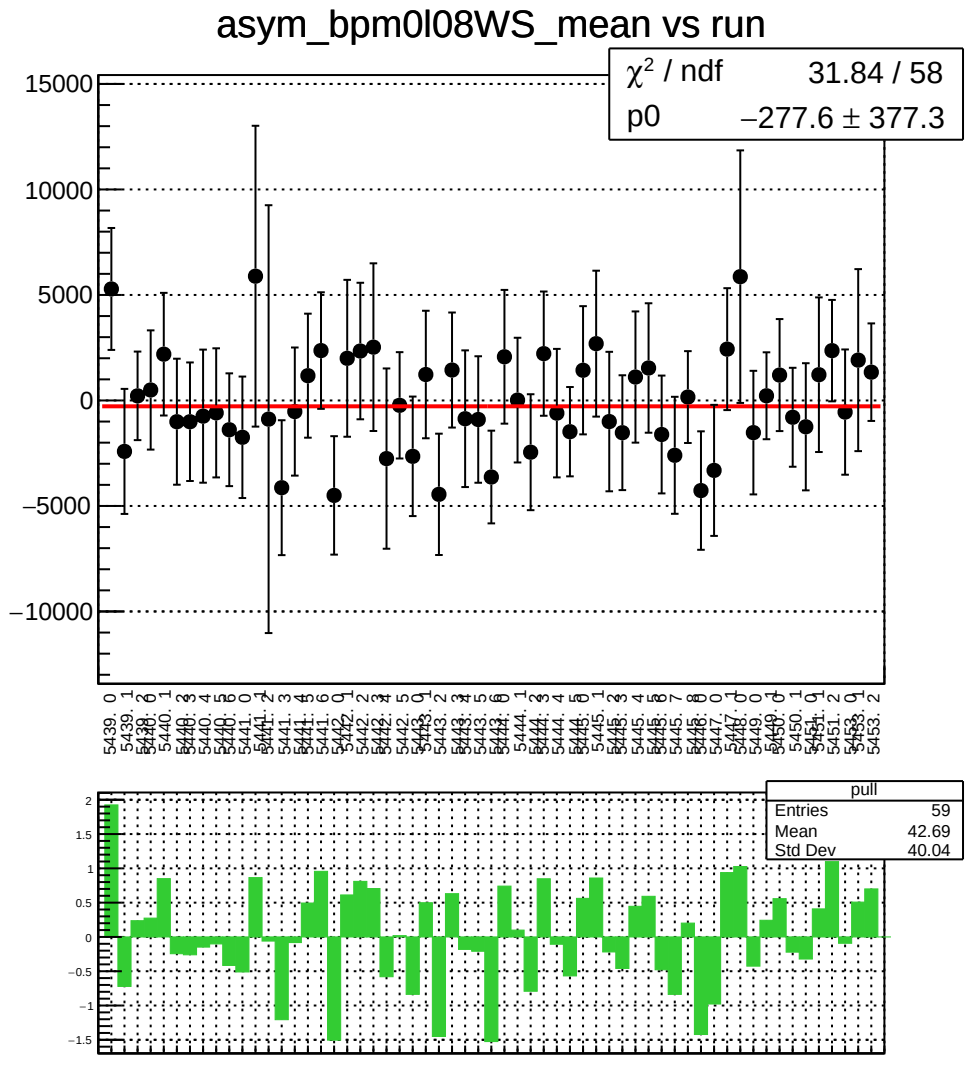

asym_bpm0l06WS_mean vs run
χ² / ndf 26.11 / 58
p0 −22.21 ± 396.1
pull
Entries 59
Mean 51.36
Std Dev 34.36
pull1D
Entries 59
Mean 0.004211
Std Dev 0.6653

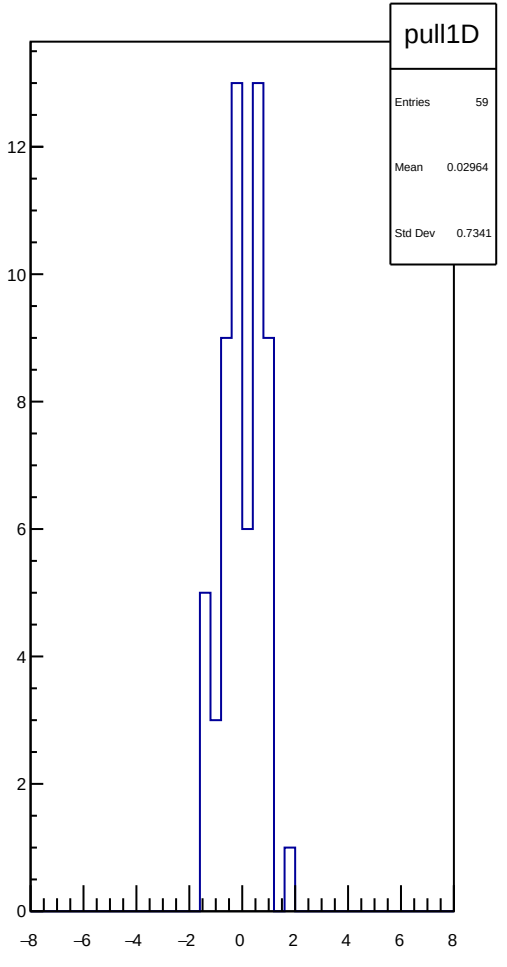

asym_bpm0l06WS_rms vs run
χ² / ndf 2.723e+04 / 58
p0 300.5 ± 0.2801
1000
900
800
700
600
500
400
300
200

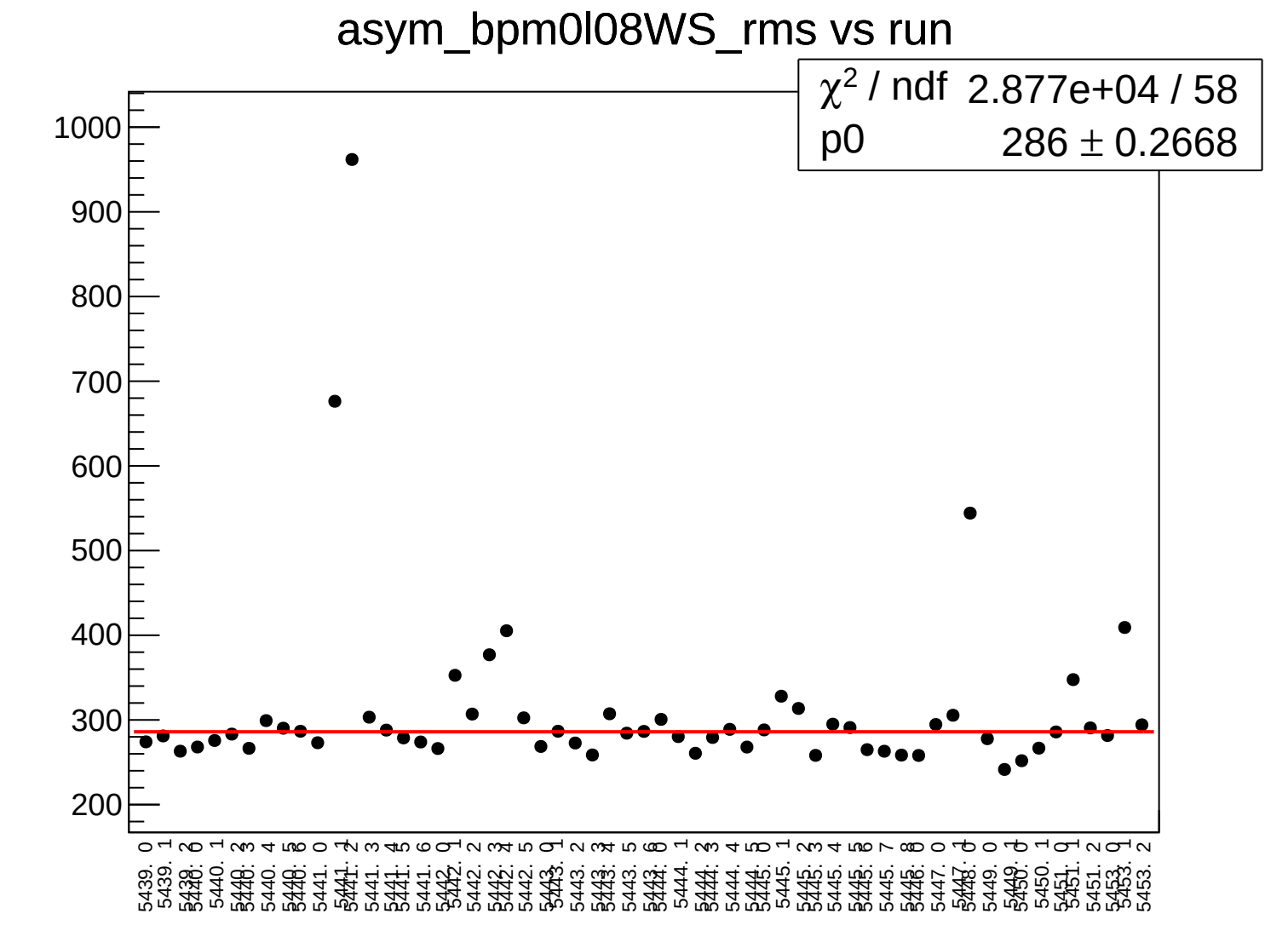

asym_bpm0l07WS_mean vs run
χ² / ndf 22.86 / 58
p0 −602.9 ± 395.3
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 97.1
Std Dev 55
1
0.5
0
−0.5
−1
−1.5

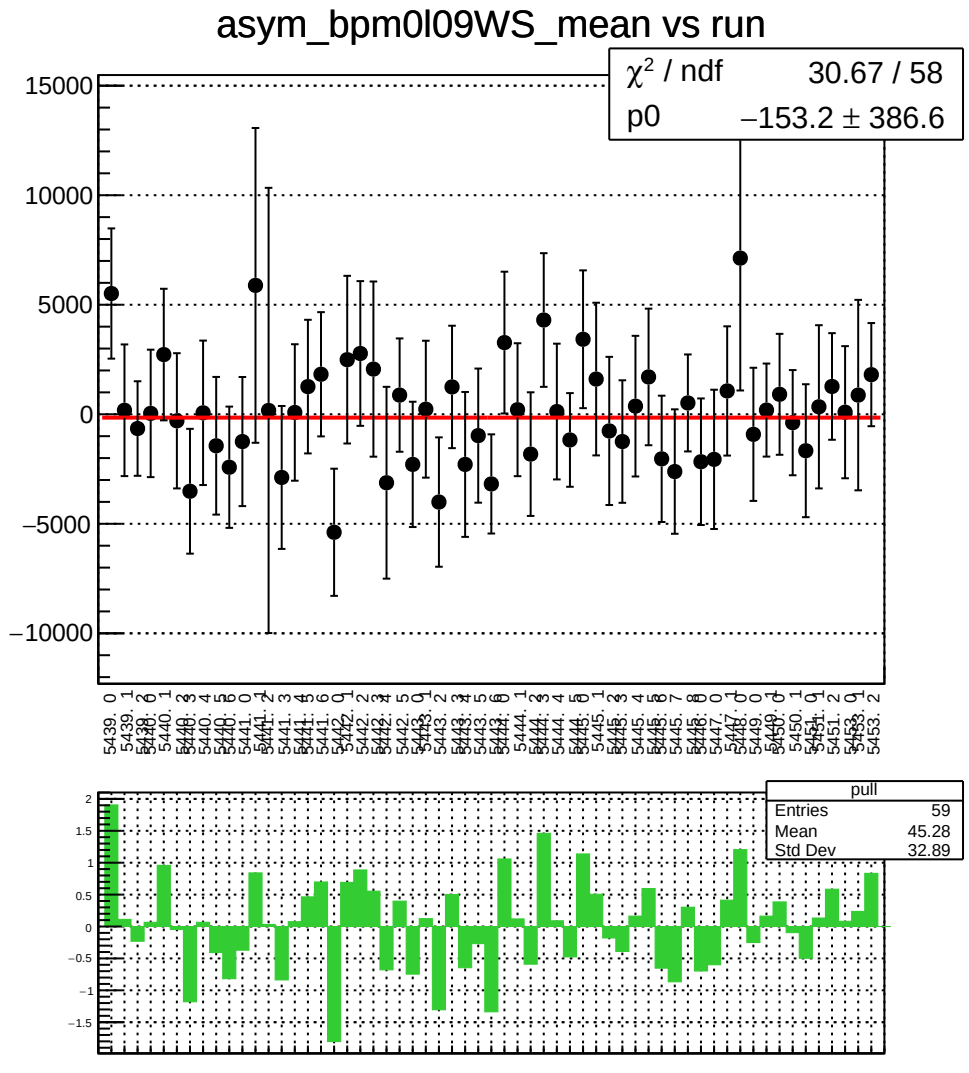

pull1D
Entries 59
Mean 0.02294
Std Dev 0.622
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

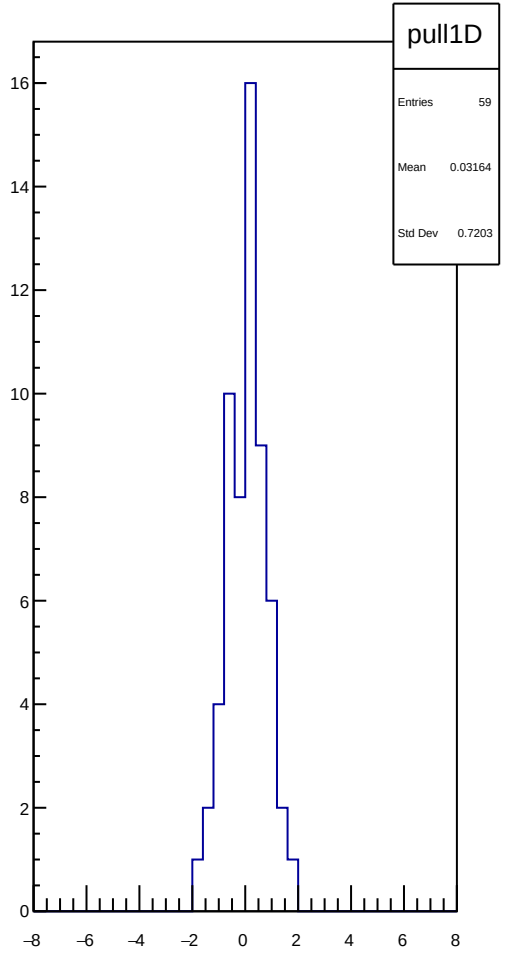

asym_bpm0l07WS_rms vs run
χ² / ndf 2.691e+04 / 58
p0 299.9 ± 0.2795
1000
900
800
700
600
500
400
300
200

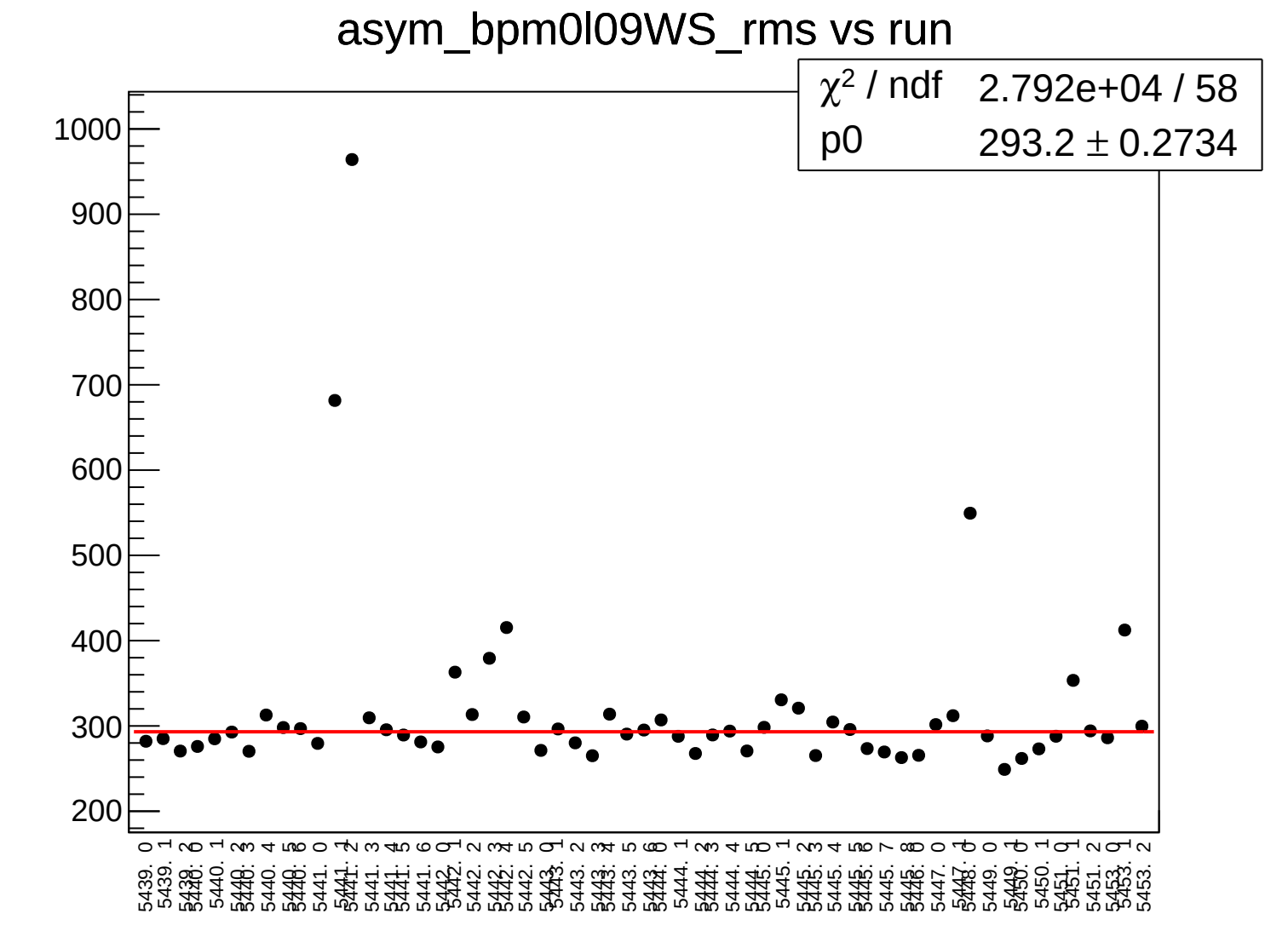

asym_bpm0l08WS_mean vs run
χ² / ndf 31.84 / 58
p0 −277.6 ± 377.3
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 42.69
Std Dev 40.04
2
1.5
1
0.5
0
−0.5
−1
−1.5

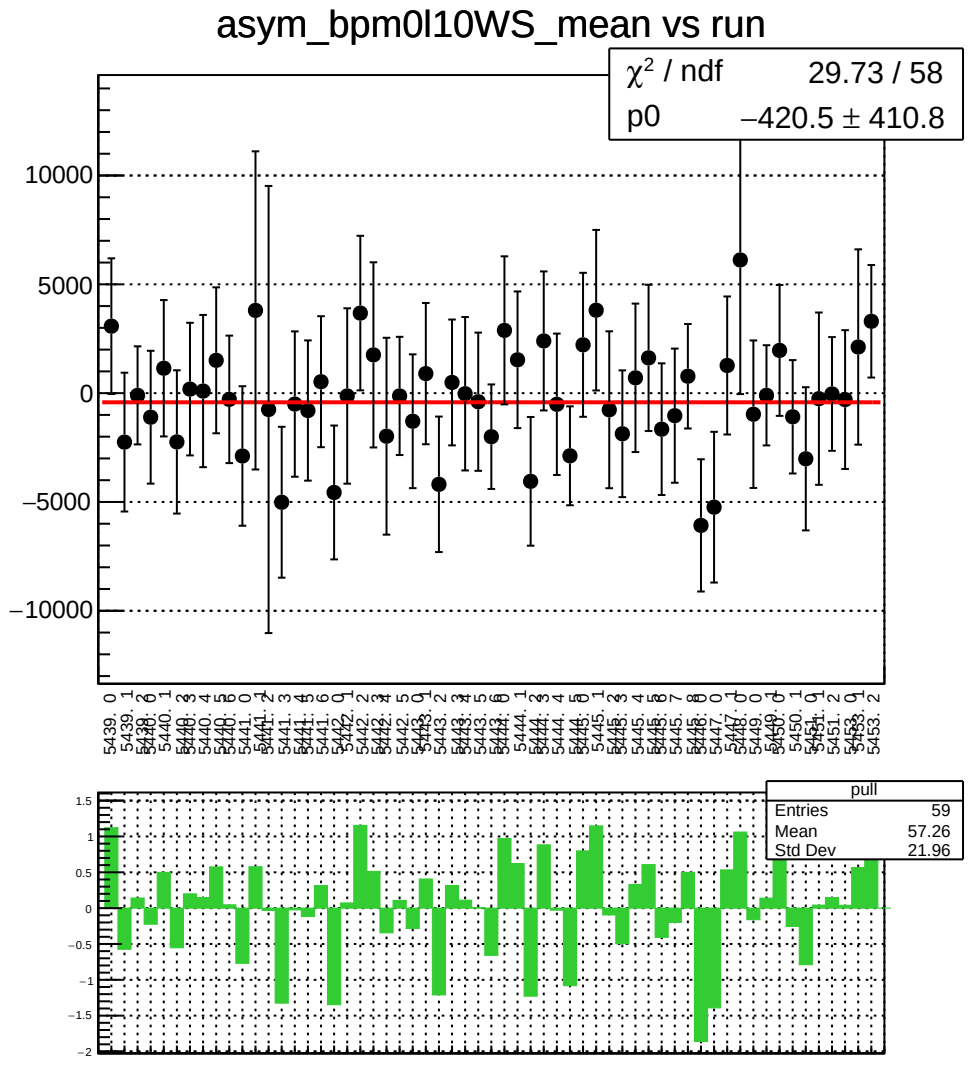

pull1D
Entries 59
Mean 0.02964
Std Dev 0.7341
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

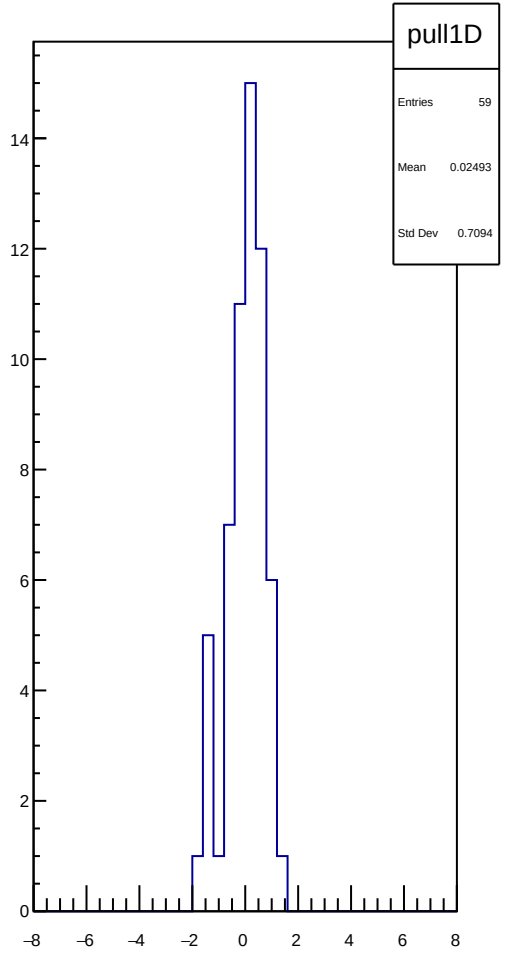

asym_bpm0l08WS_rms vs run
χ² / ndf 2.877e+04 / 58
p0 286 ± 0.2668
1000
900
800
700
600
500
400
300
200

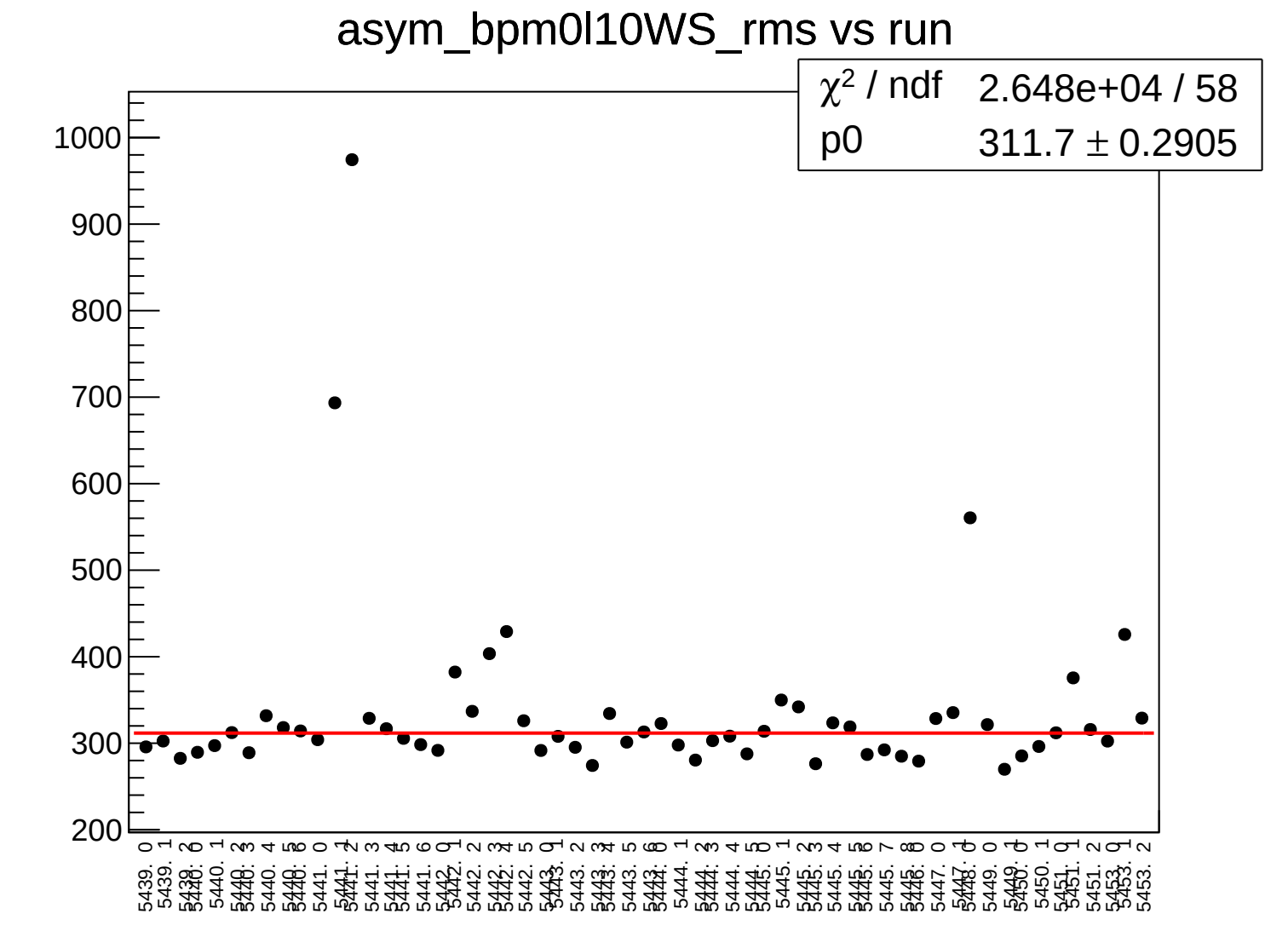

asym_bpm0l09WS_mean vs run
χ² / ndf 30.67 / 58
p0 −153.2 ± 386.6
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 45.28
Std Dev 32.89
2
1.5
1
0.5
0
−0.5
−1
−1.5

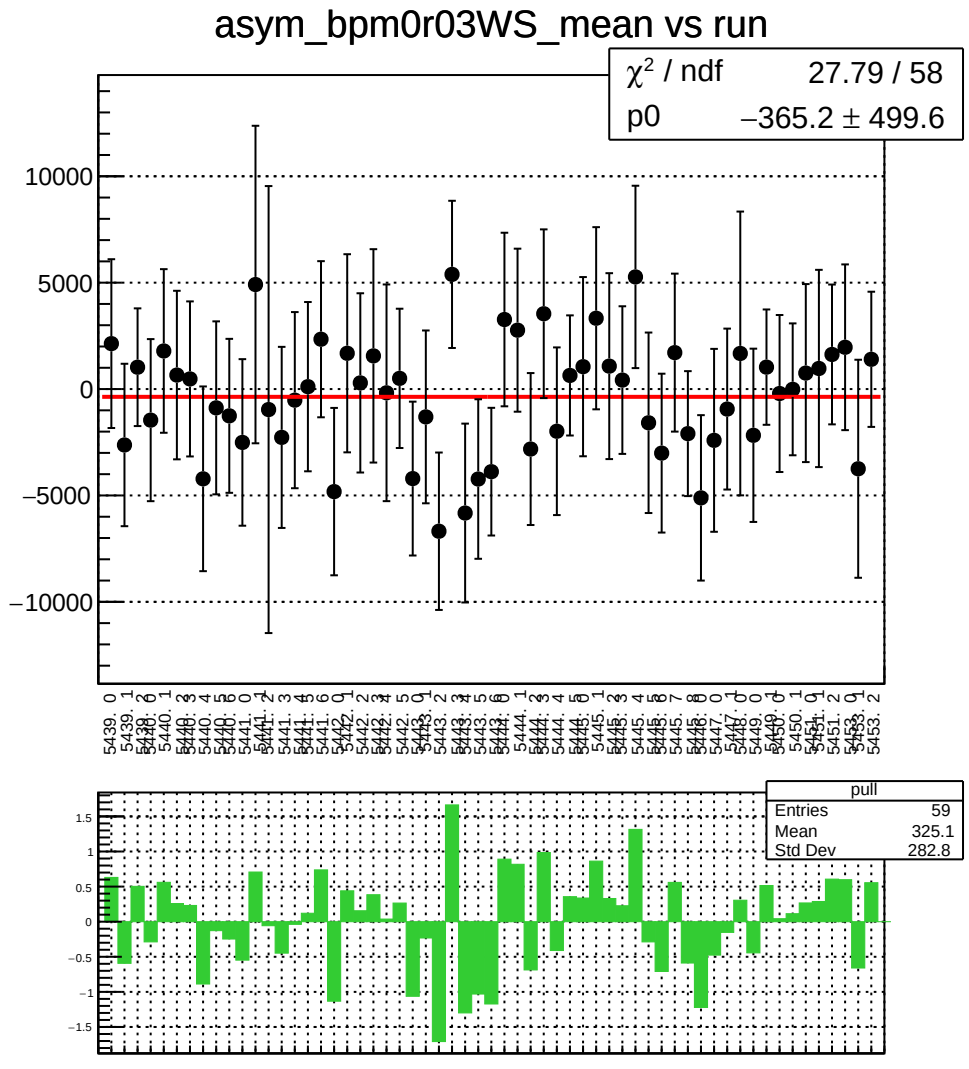

pull1D
Entries 59
Mean 0.03164
Std Dev 0.7203
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

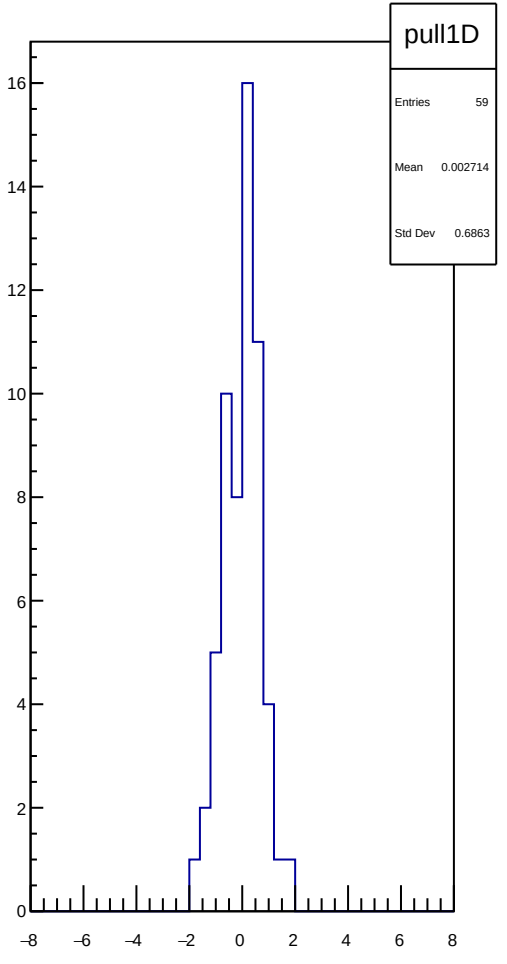

asym_bpm0l09WS_rms vs run
χ² / ndf 2.792e+04 / 58
p0 293.2 ± 0.2734
1000
900
800
700
600
500
400
300
200

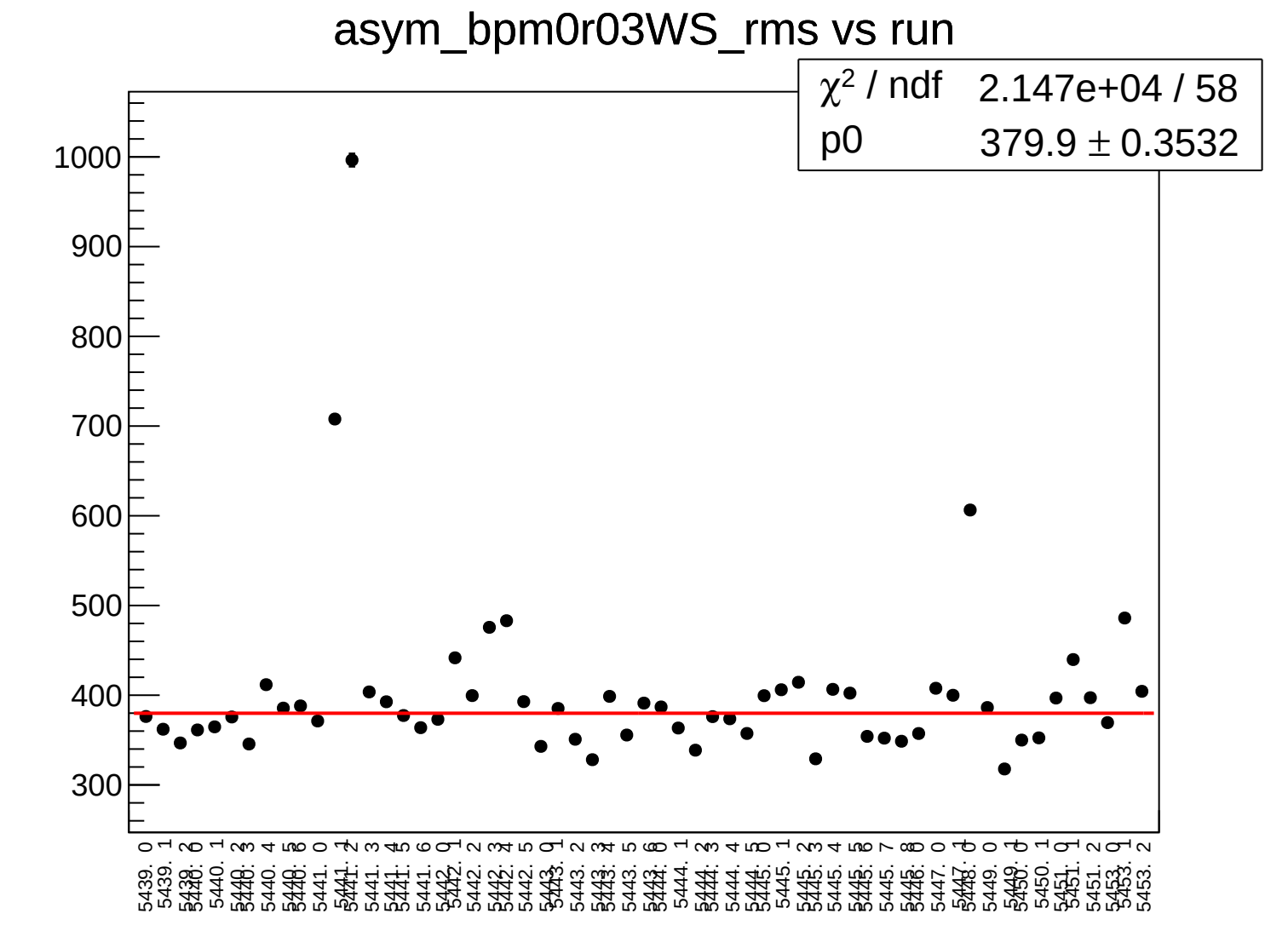

asym_bpm0l10WS_mean vs run
χ² / ndf 29.73 / 58
p0 −420.5 ± 410.8
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 57.26
Std Dev 21.96
1.5
1
0.5
0
−0.5
−1
−1.5
−2

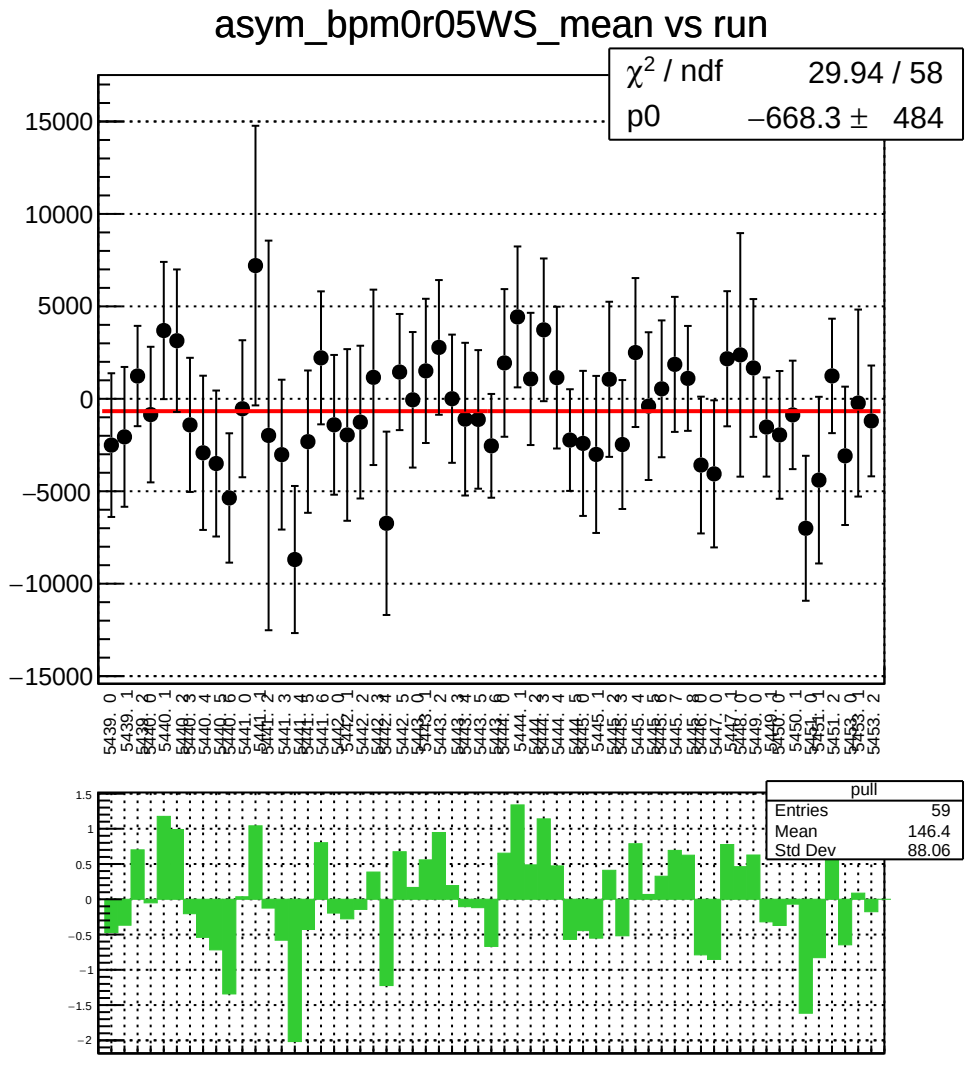

pull1D
Entries 59
Mean 0.02493
Std Dev 0.7094
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

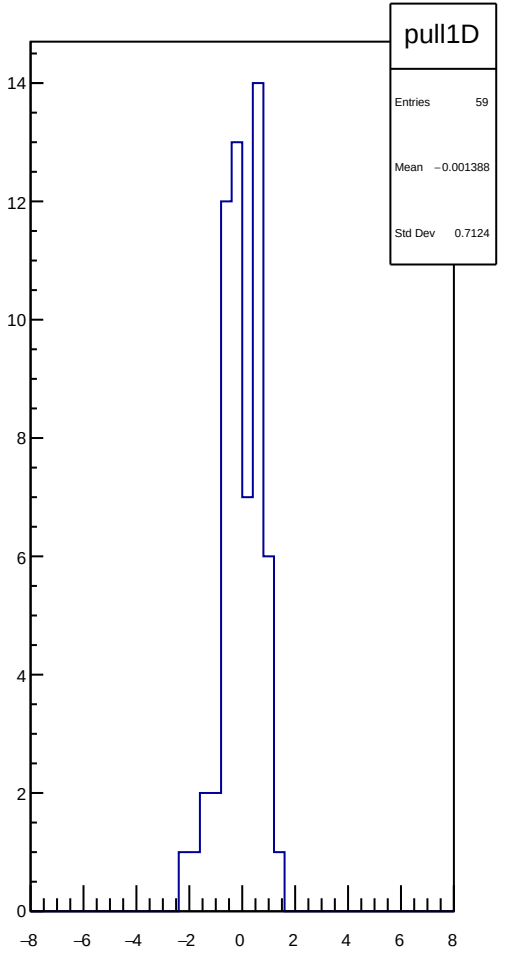

asym_bpm0l10WS_rms vs run
χ² / ndf 2.648e+04 / 58
p0 311.7 ± 0.2905
1000
900
800
700
600
500
400
300
200

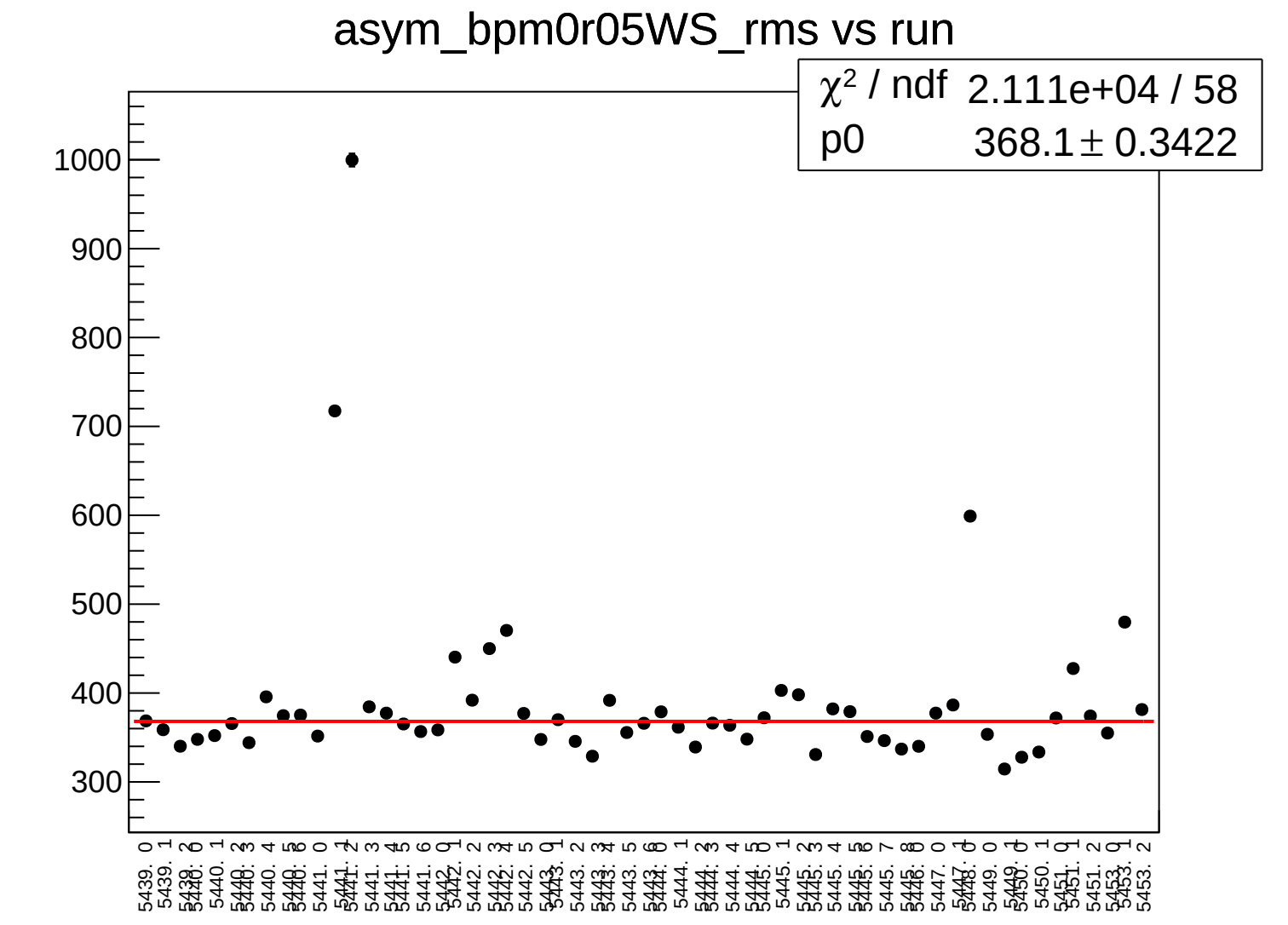

asym_bpm0r03WS_mean vs run
χ² / ndf 27.79 / 58
p0 −365.2 ± 499.6
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 325.1
Std Dev 282.8
1.5
1
0.5
0
−0.5
−1
−1.5

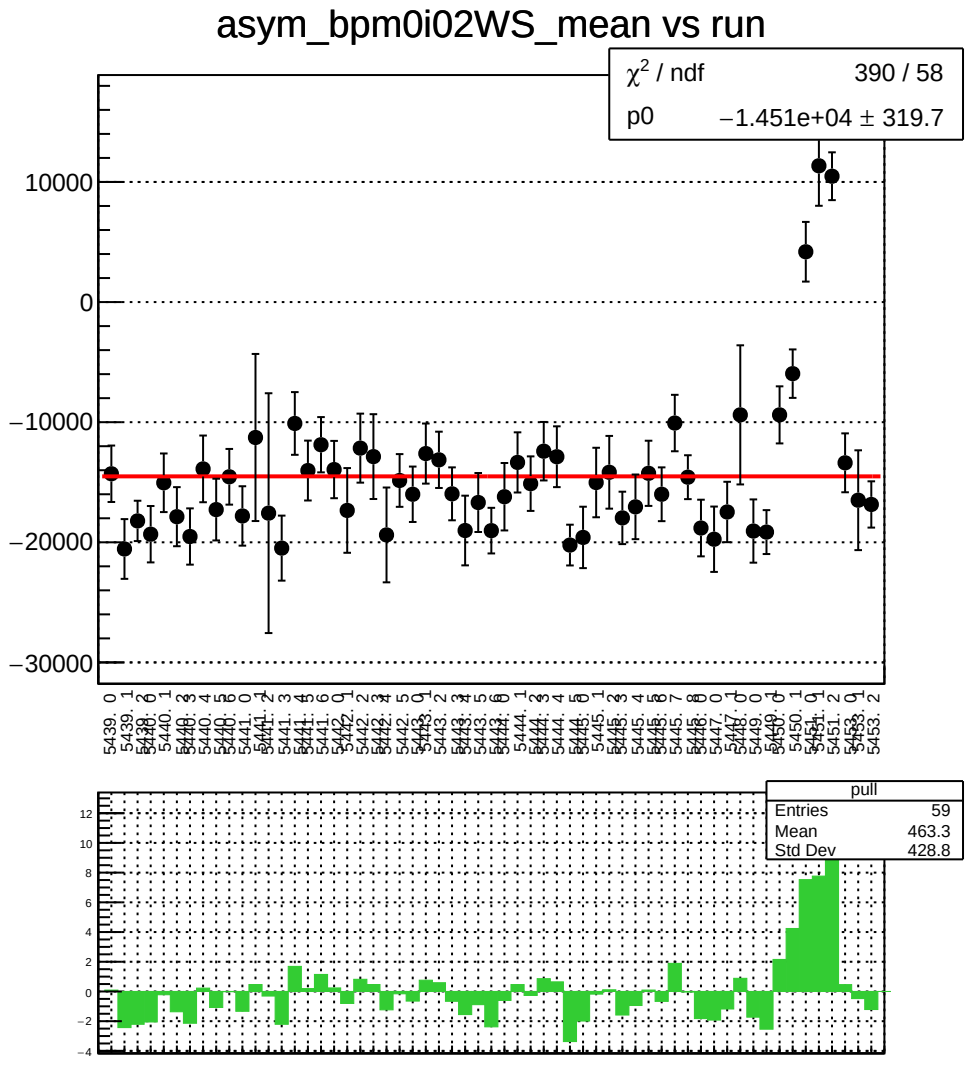

pull1D
Entries 59
Mean 0.002714
Std Dev 0.6863
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

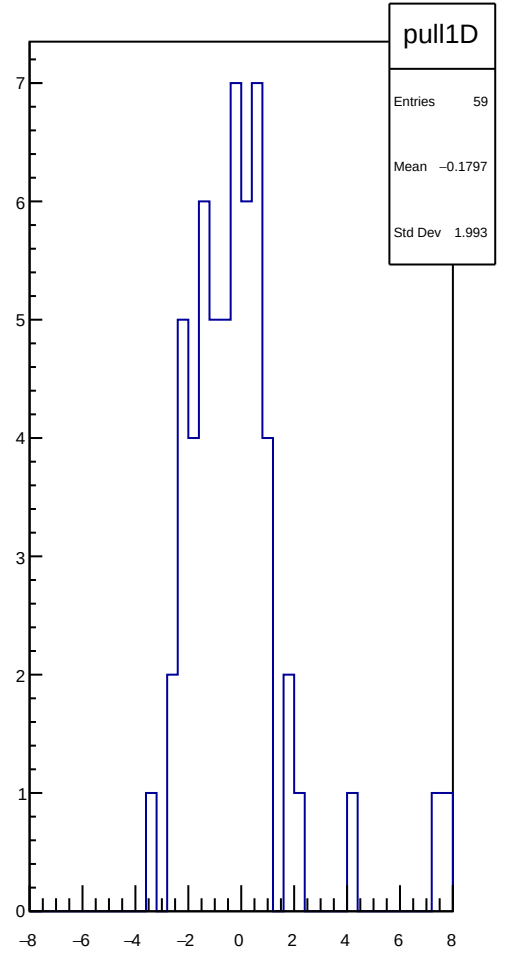

asym_bpm0r03WS_rms vs run
$\chi^2$ / ndf 2.147e+04 / 58
p0 379.9 ± 0.3532
1000
900
800
700
600
500
400
300

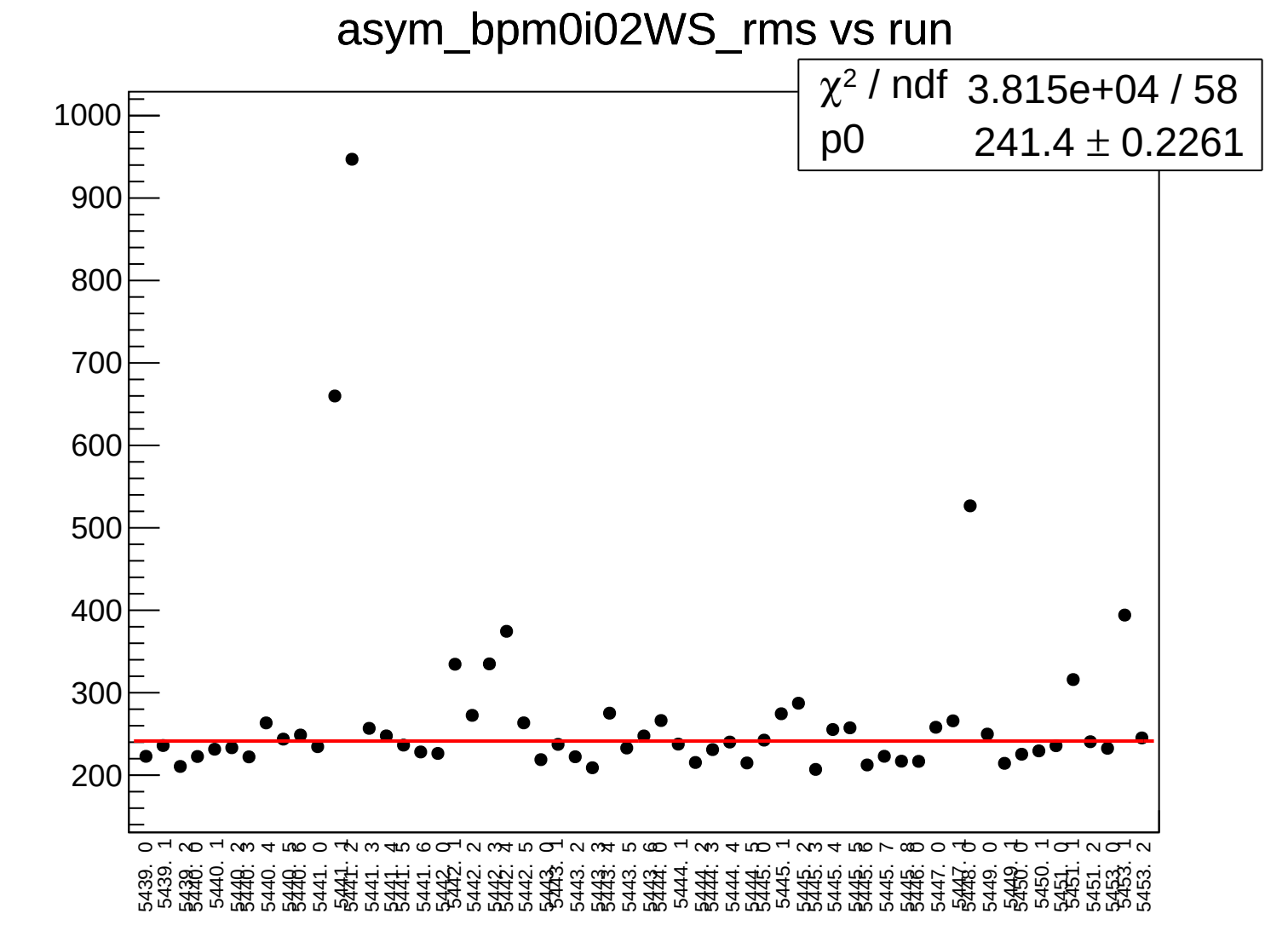

asym_bpm0r05WS_mean vs run
χ² / ndf 29.94 / 58
p0 −668.3 ± 484
pull
Entries 59
Mean 146.4
Std Dev 88.06

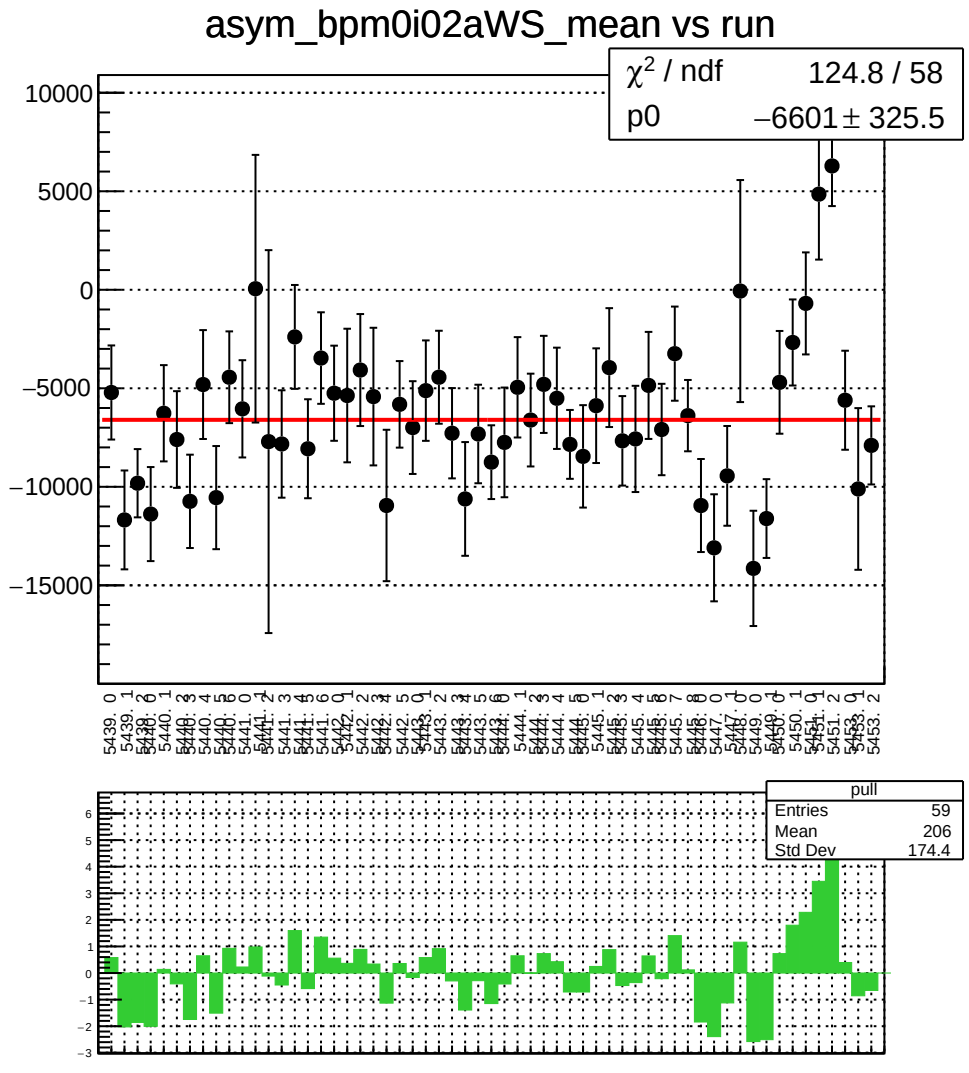

pull1D
Entries 59
Mean −0.001388
Std Dev 0.7124

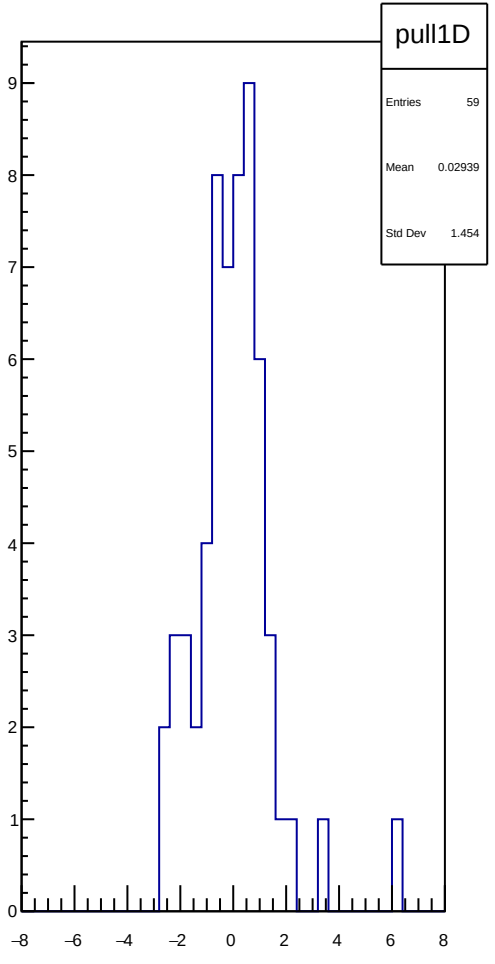

asym_bpm0r05WS_rms vs run
χ² / ndf 2.111e+04 / 58
p0 368.1 ± 0.3422
1000
900
800
700
600
500
400
300

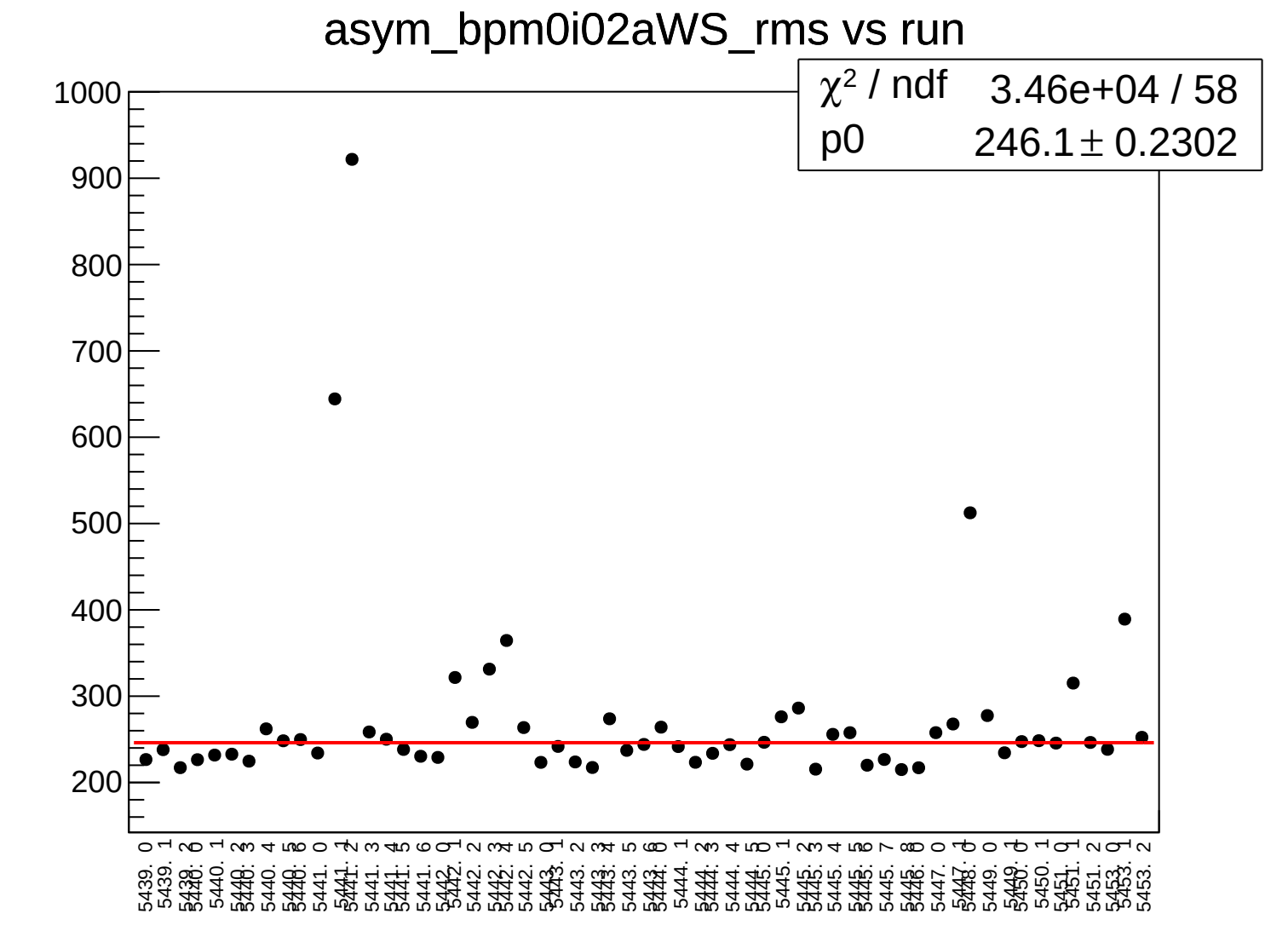

asym_bpm0i02WS_mean vs run
χ² / ndf 390 / 58
p0 −1.451e+04 ± 319.7
pull
Entries 59
Mean 463.3
Std Dev 428.8

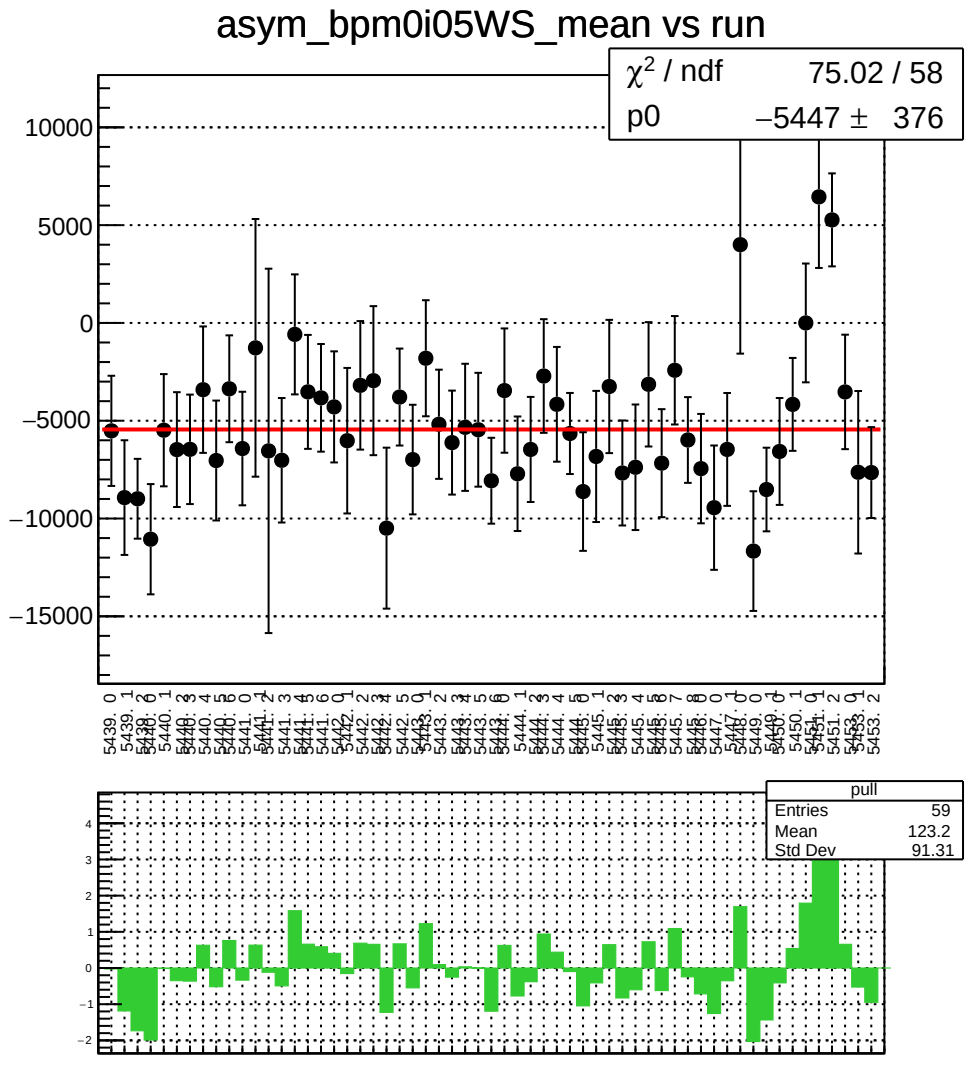

pull1D
Entries 59
Mean −0.1797
Std Dev 1.993

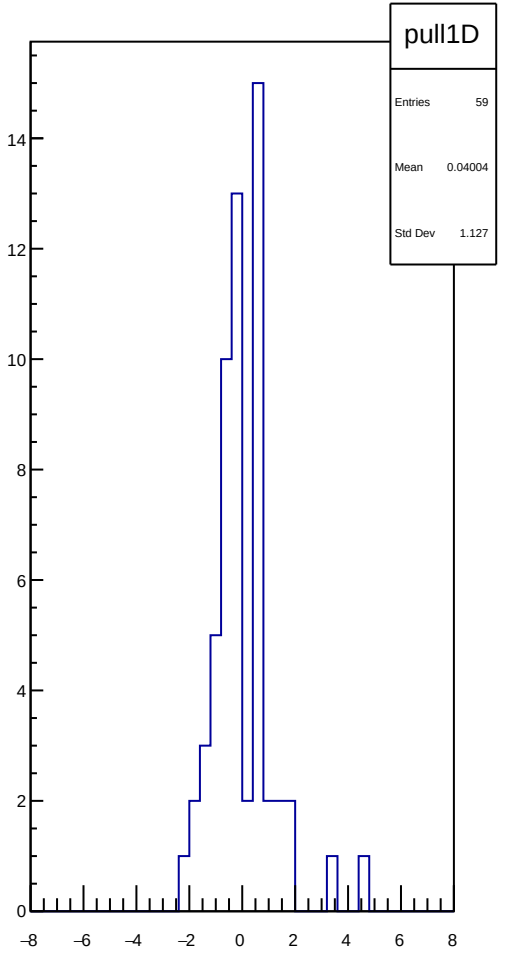

asym_bpm0i02WS_rms vs run
χ² / ndf 3.815e+04 / 58
p0 241.4 ± 0.2261
1000
900
800
700
600
500
400
300
200

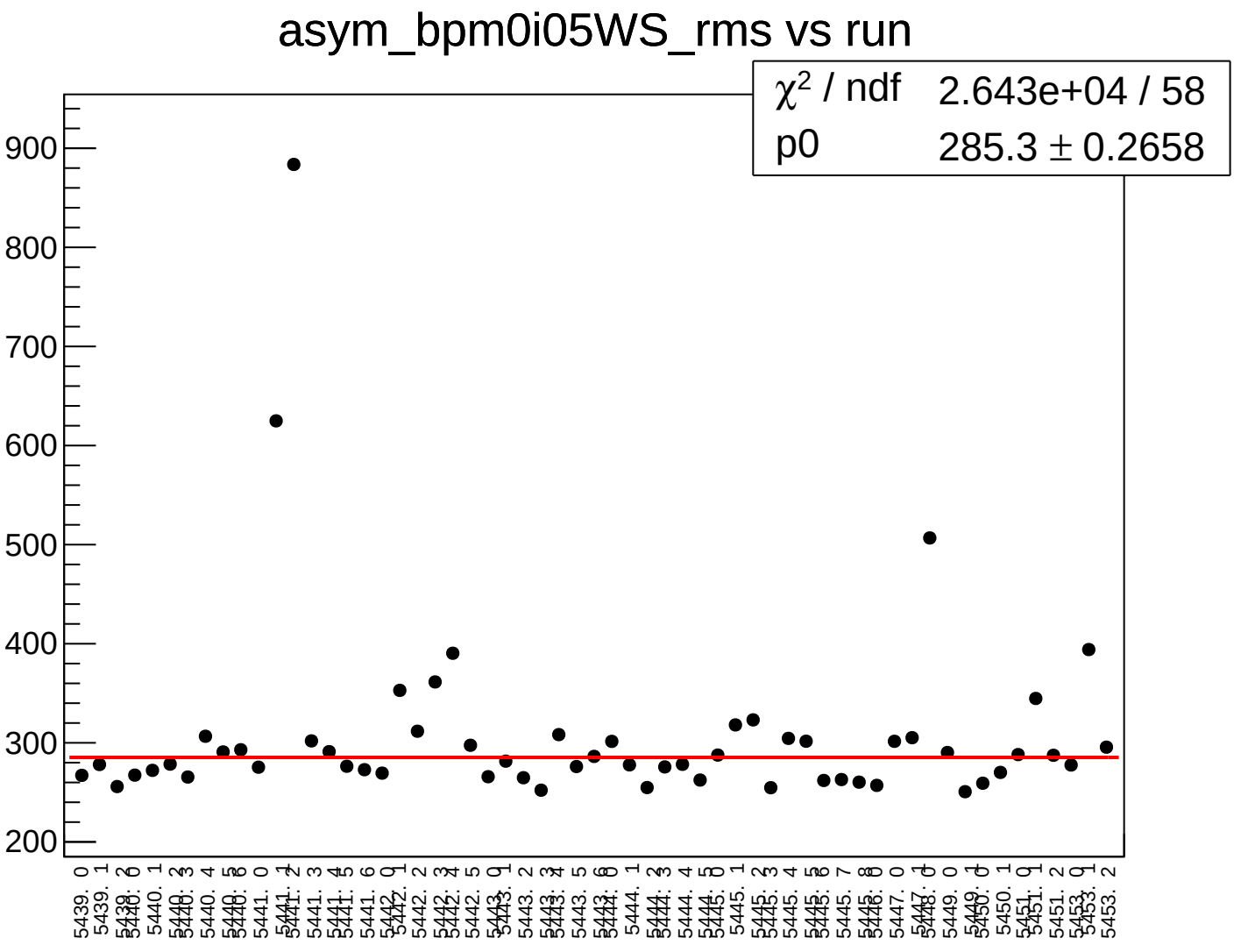

asym_bpm0i02aWS_mean vs run
χ² / ndf 124.8 / 58
p0 −6601 ± 325.5
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean 206
Std Dev 174.4
6
5
4
3
2
1
0
−1
−2
−3

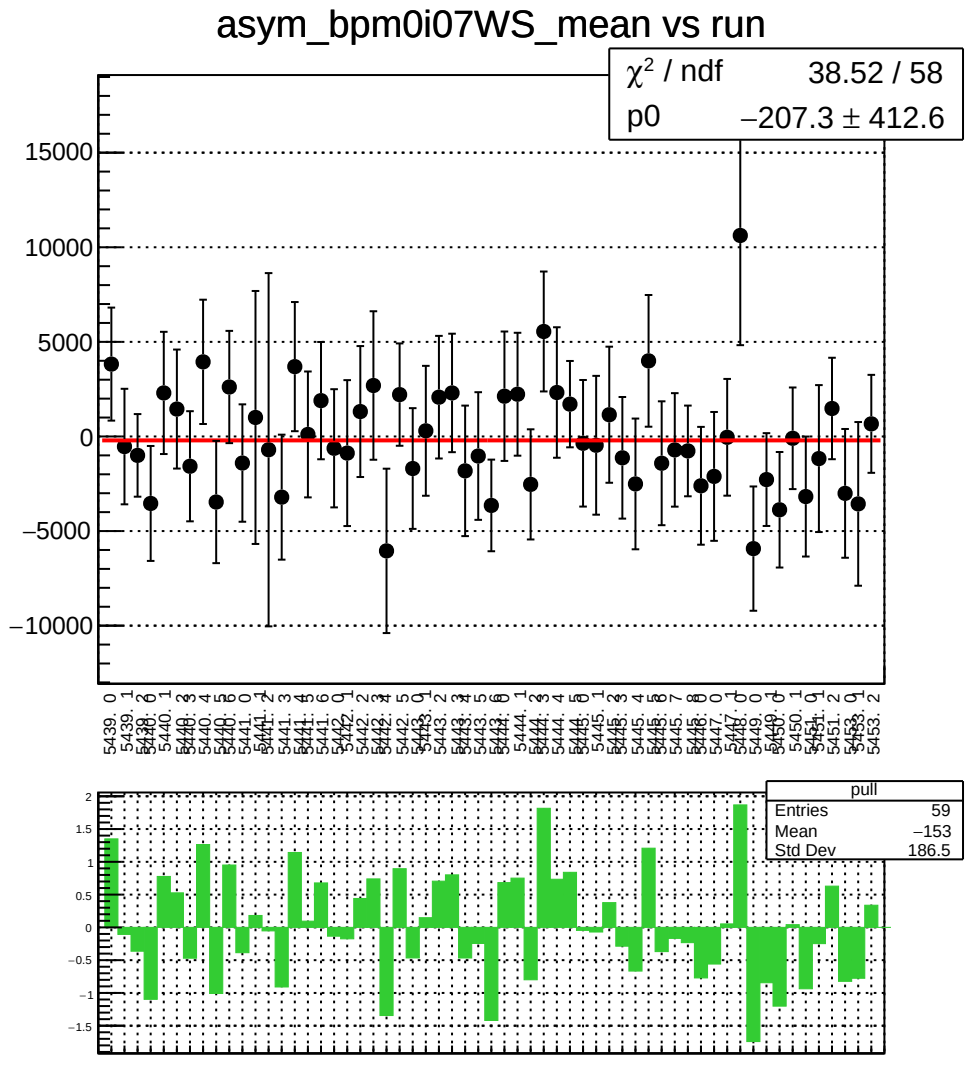

pull1D
Entries 59
Mean 0.02939
Std Dev 1.454
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

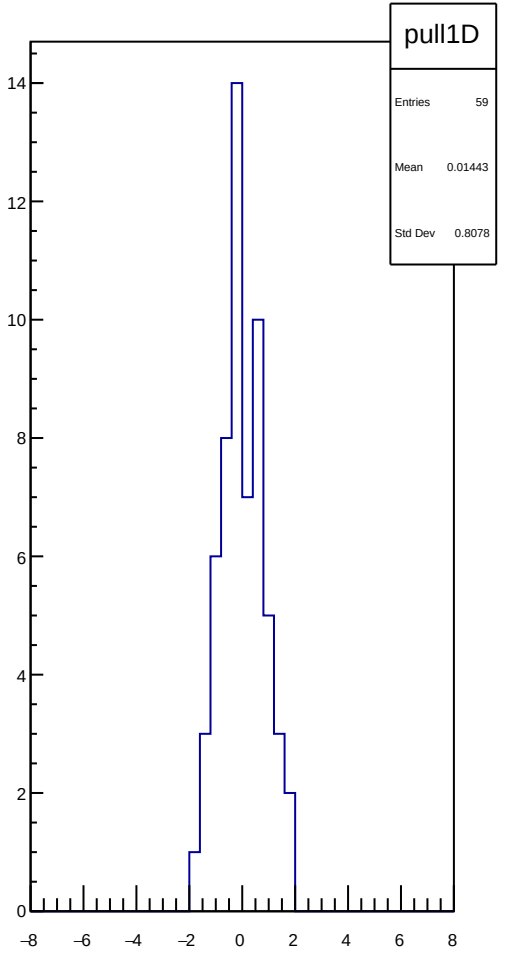

asym_bpm0i02aWS_rms vs run
χ² / ndf 3.46e+04 / 58
p0 246.1 ± 0.2302
1000
900
800
700
600
500
400
300
200

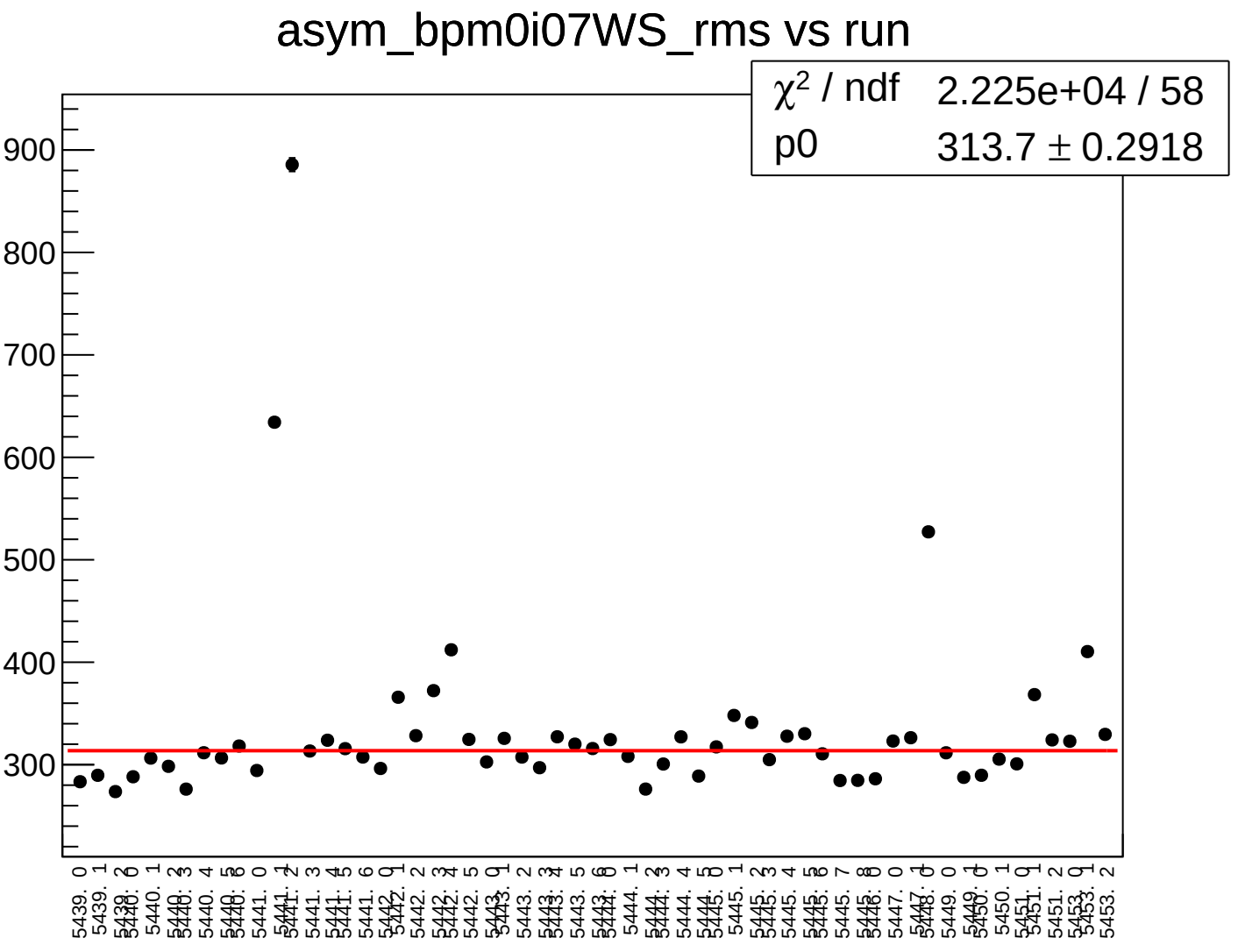

asym_bpm0i05WS_mean vs run
χ² / ndf 75.02 / 58
p0 −5447 ± 376
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean 123.2
Std Dev 91.31
4
3
2
1
0
−1
−2

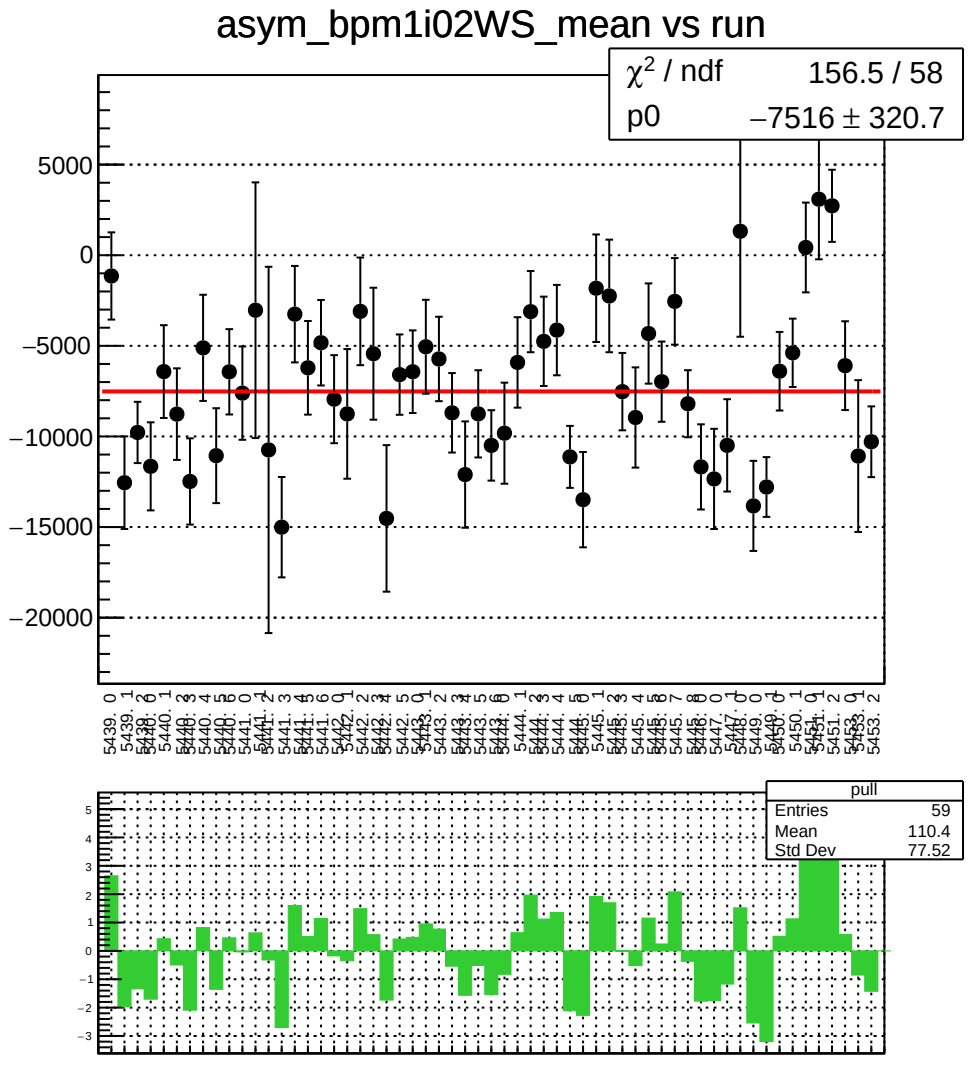

pull1D
Entries 59
Mean 0.04004
Std Dev 1.127
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

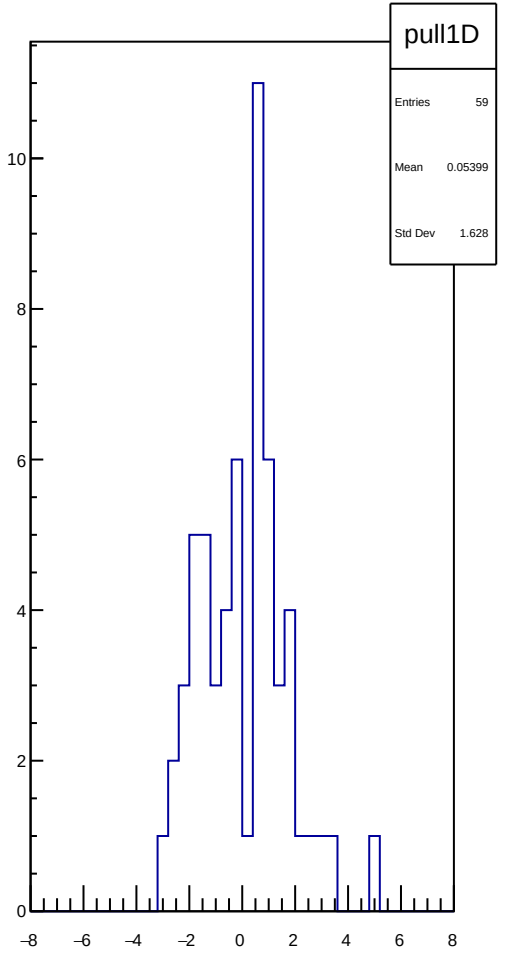

asym_bpm0i05WS_rms vs run
χ² / ndf 2.643e+04 / 58
p0 285.3 ± 0.2658
900
800
700
600
500
400
300
200

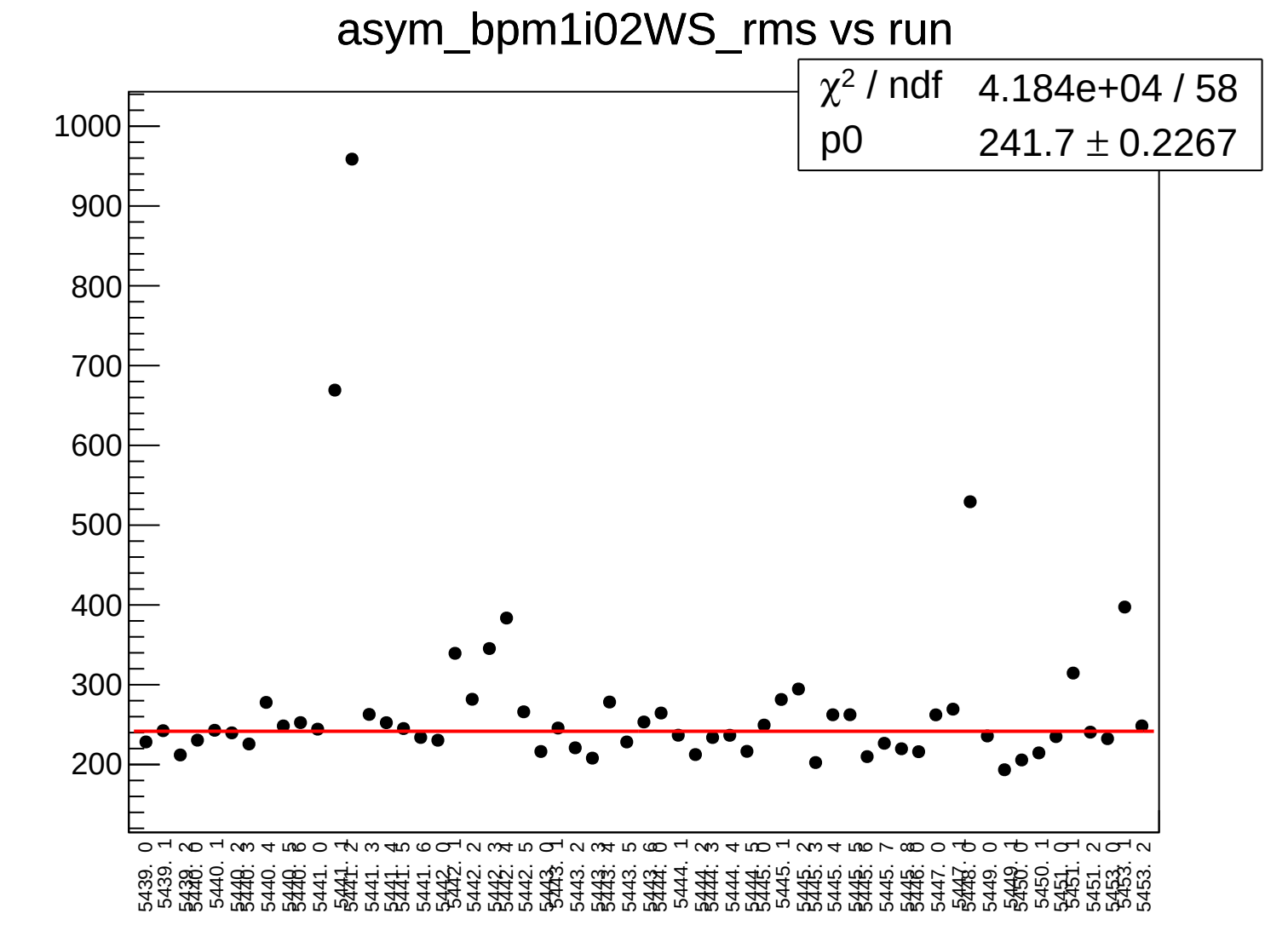

asym_bpm0i07WS_mean vs run
χ² / ndf 38.52 / 58
p0 −207.3 ± 412.6
15000
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −153
Std Dev 186.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

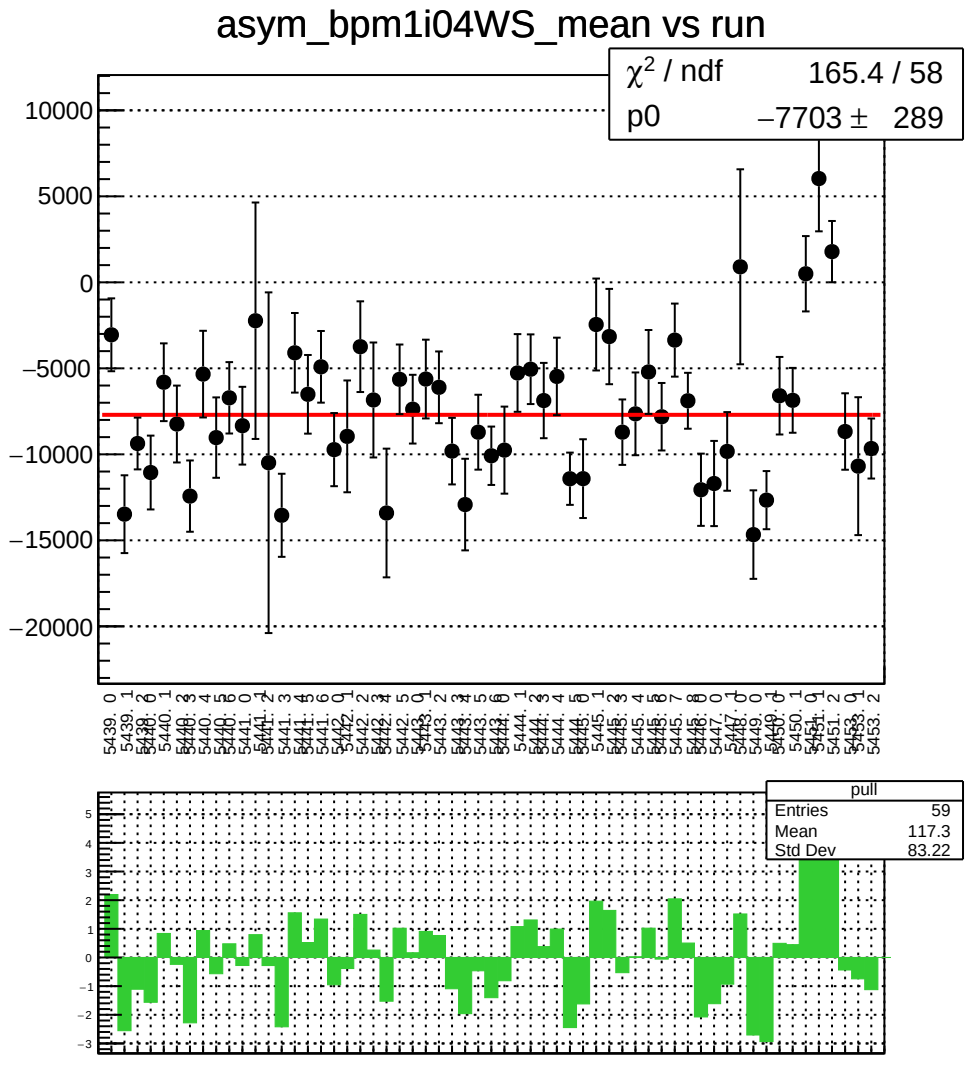

pull1D
Entries 59
Mean 0.01443
Std Dev 0.8078
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

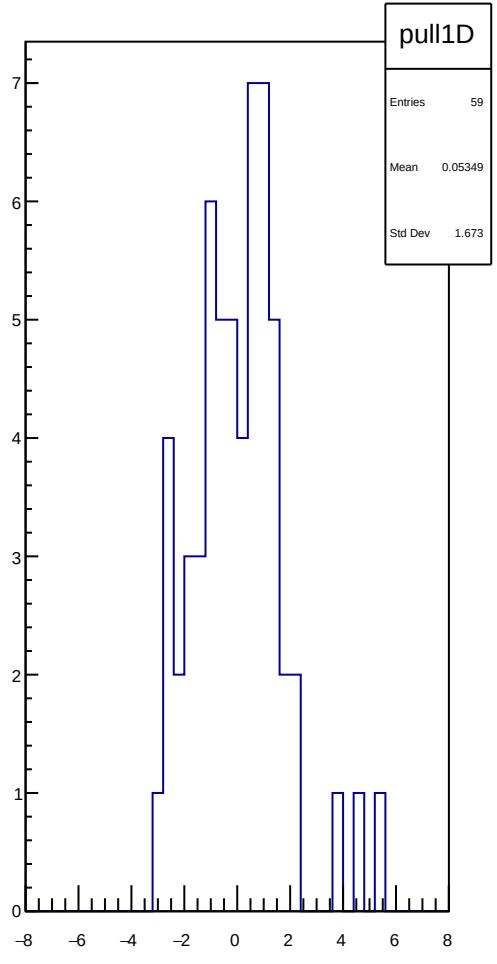

asym_bpm0i07WS_rms vs run
χ² / ndf 2.225e+04 / 58
p0 313.7 ± 0.2918
900
800
700
600
500
400
300

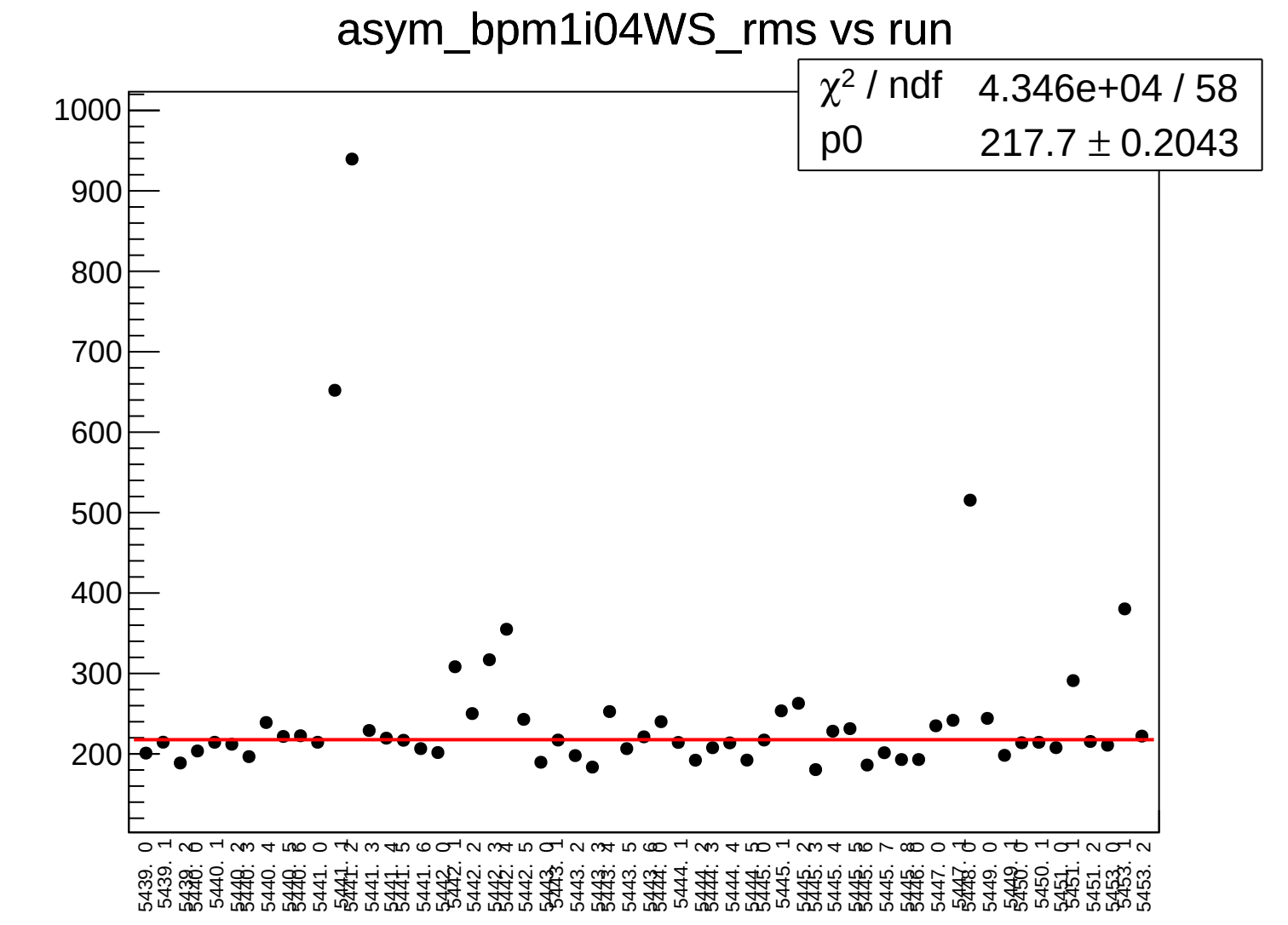

asym_bpm1i02WS_mean vs run
χ² / ndf 156.5 / 58
p0 −7516 ± 320.7
5000
0
−5000
−10000
−15000
−20000
pull
Entries 59
Mean 110.4
Std Dev 77.52
5
4
3
2
1
0
−1
−2
−3

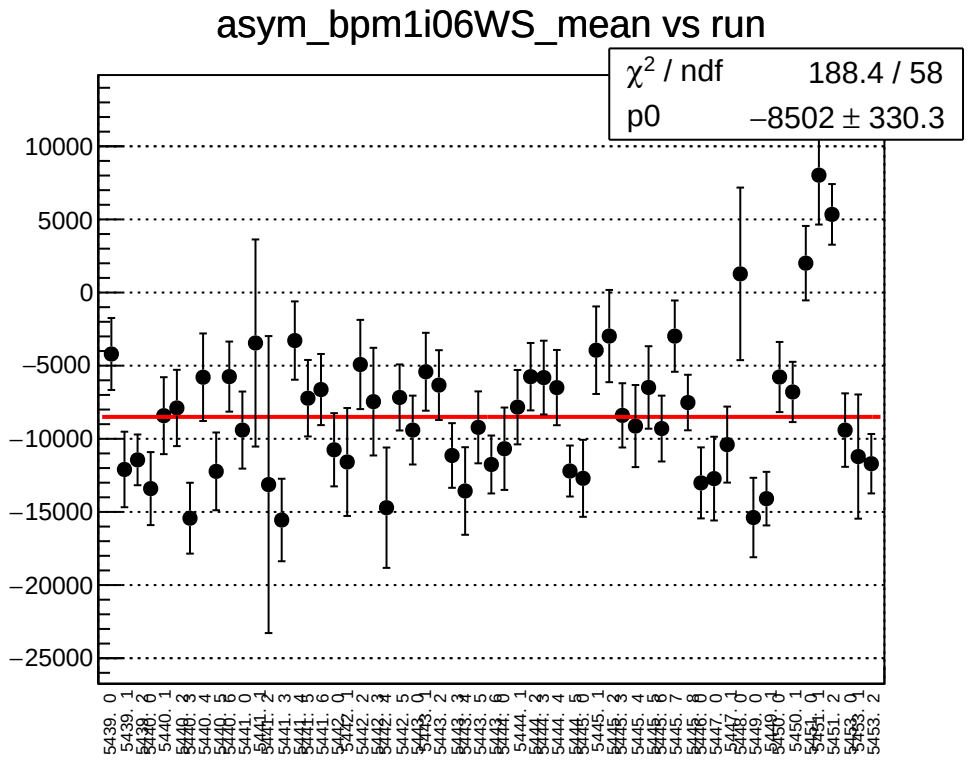

pull1D
Entries 59
Mean 0.05399
Std Dev 1.628
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

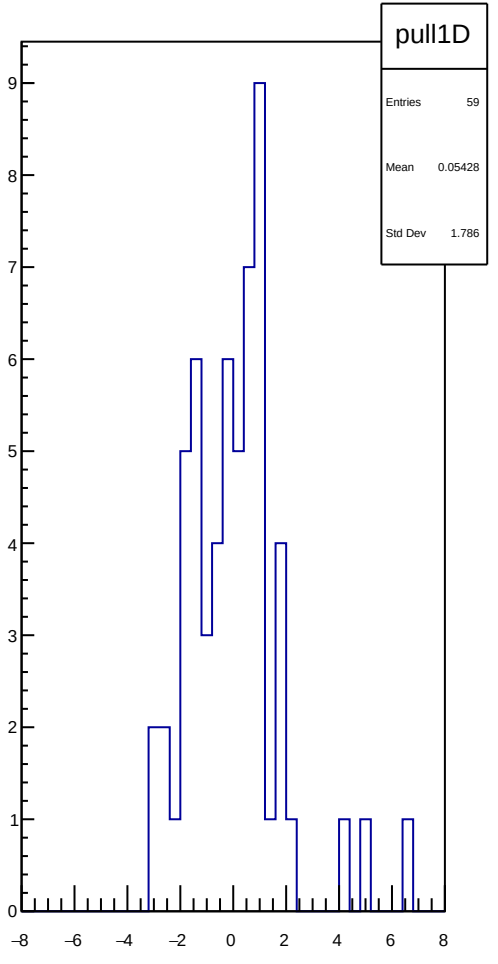

asym_bpm1i02WS_rms vs run
χ² / ndf 4.184e+04 / 58
p0 241.7 ± 0.2267
1000
900
800
700
600
500
400
300
200

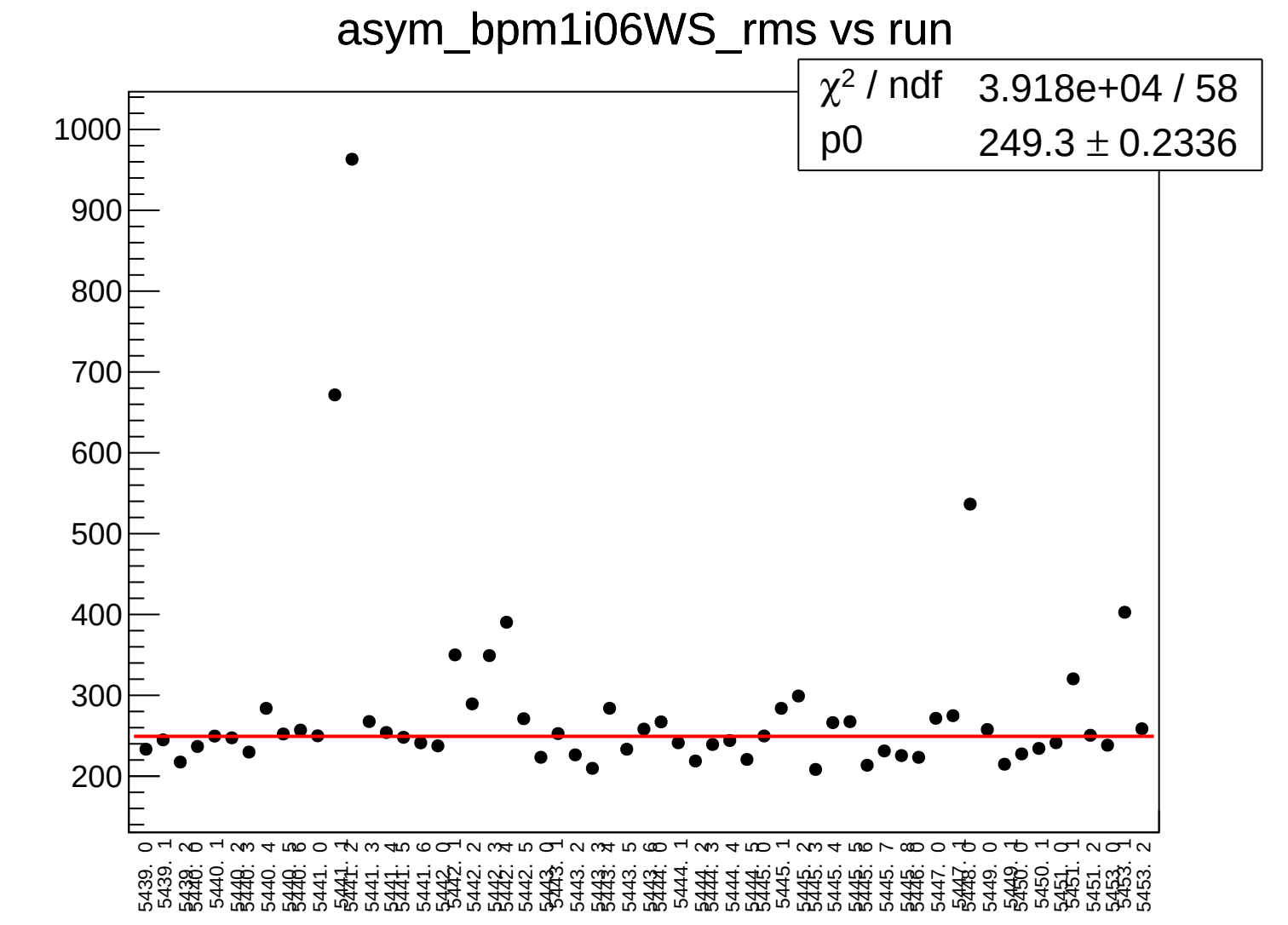

asym_bpm1i04WS_mean vs run
χ² / ndf 165.4 / 58
p0 −7703 ± 289
pull
Entries 59
Mean 117.3
Std Dev 83.22

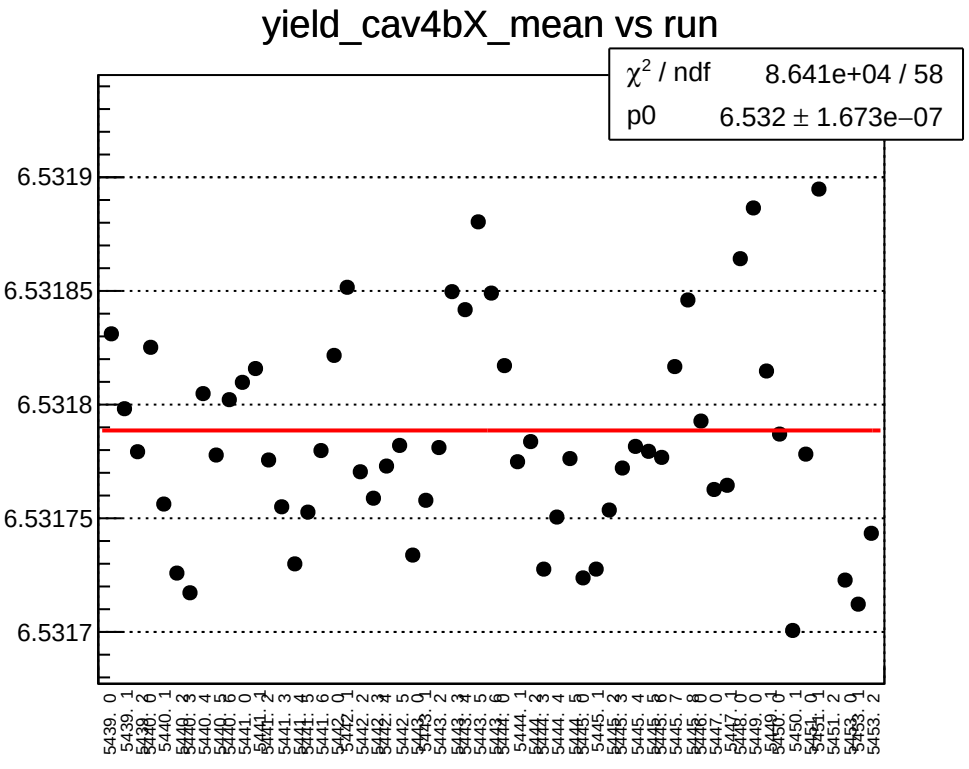

pull1D
Entries 59
Mean 0.05349
Std Dev 1.673

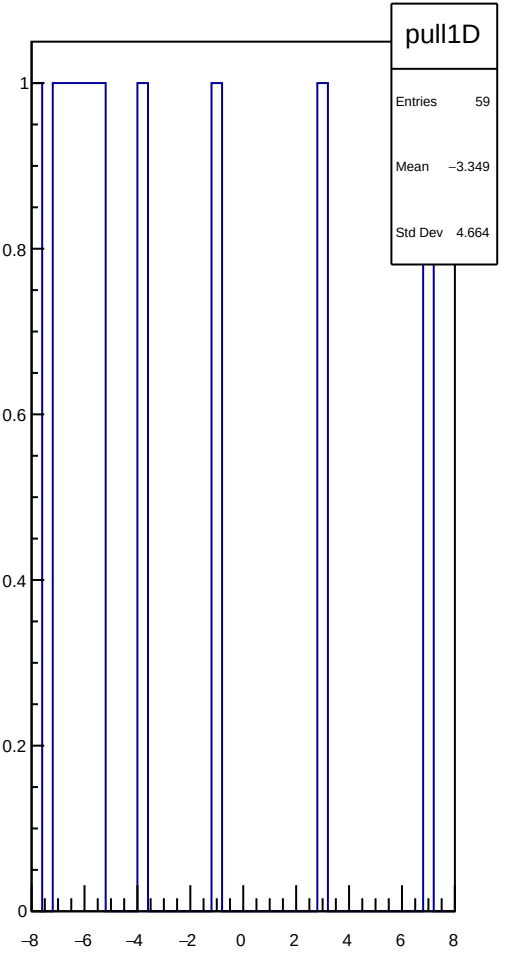

asym_bpm1i04WS_rms vs run
χ² / ndf 4.346e+04 / 58
p0 217.7 ± 0.2043
1000
900
800
700
600
500
400
300
200

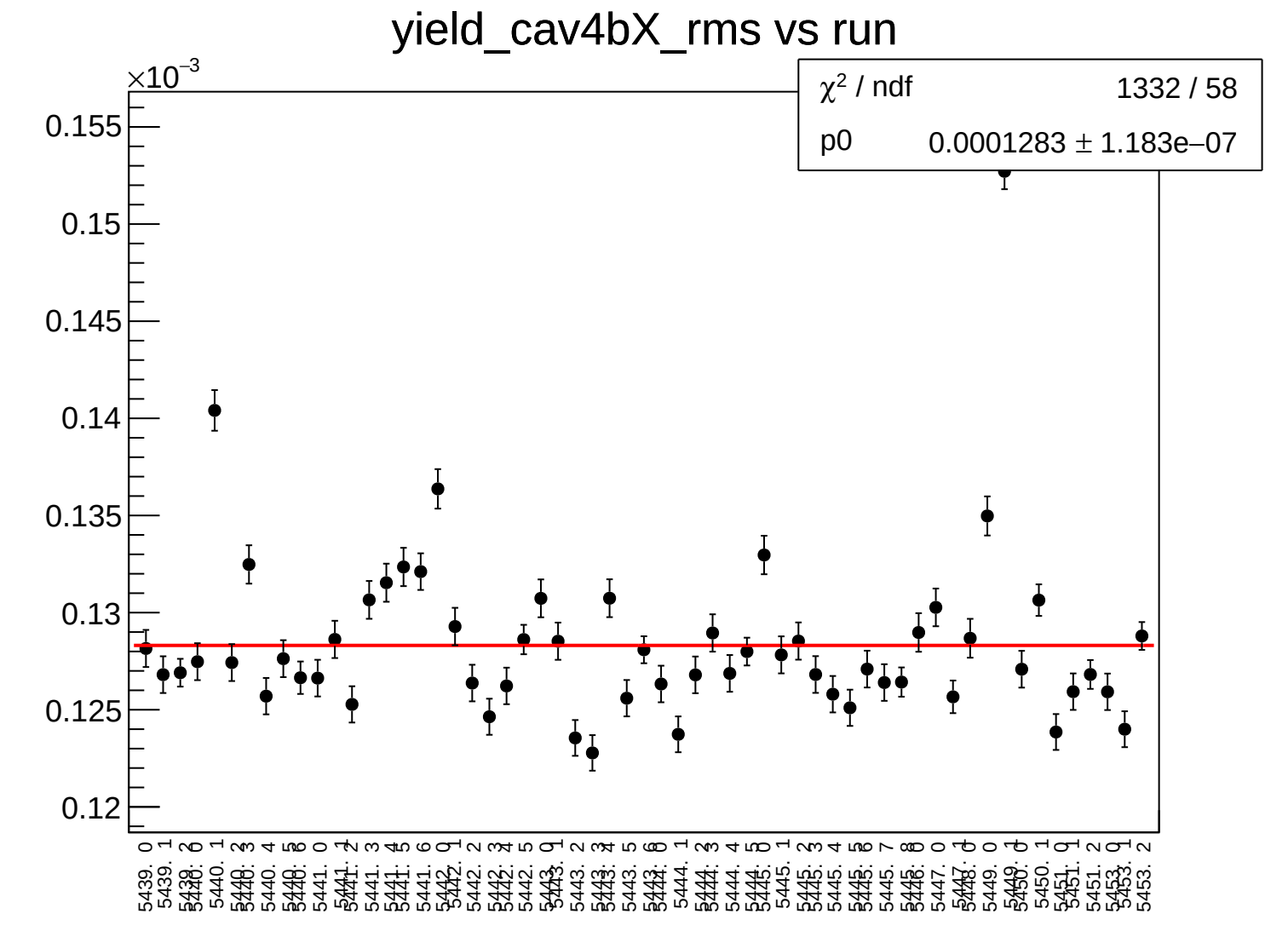

asym_bpm1i06WS_mean vs run
χ² / ndf 188.4 / 58
p0 −8502 ± 330.3
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 59
Mean 158.1
Std Dev 124.6
6
4
2
0
−2

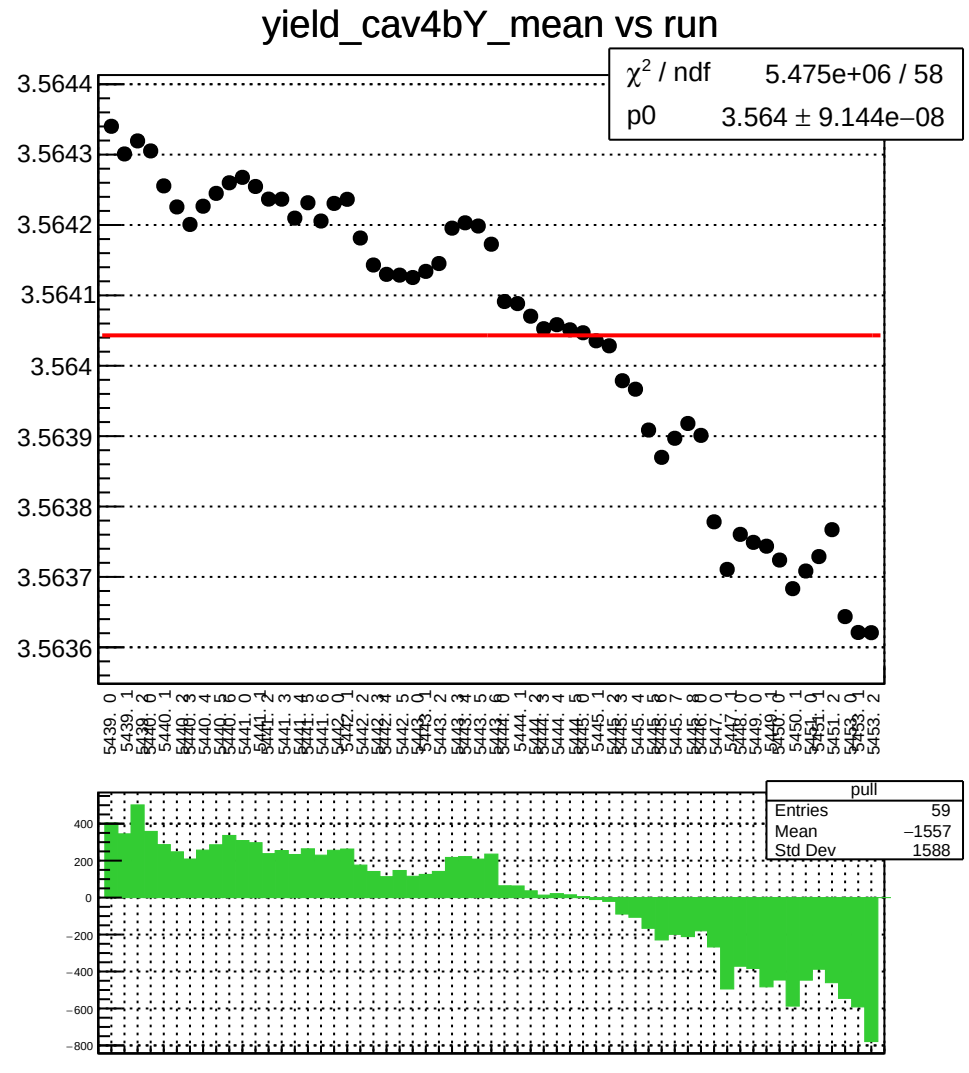

pull1D
Entries 59
Mean 0.05428
Std Dev 1.786
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

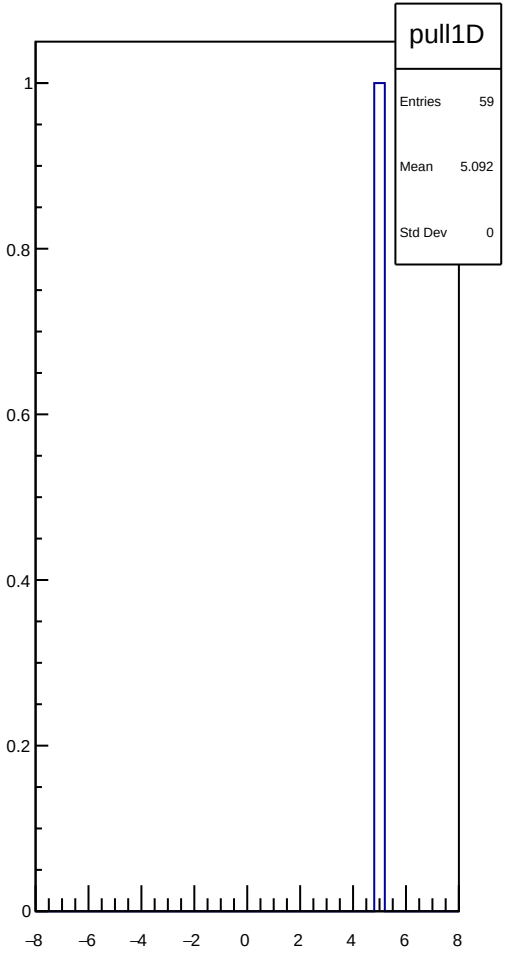

asym_bpm1i06WS_rms vs run
χ² / ndf 3.918e+04 / 58
p0 249.3 ± 0.2336
1000
900
800
700
600
500
400
300
200

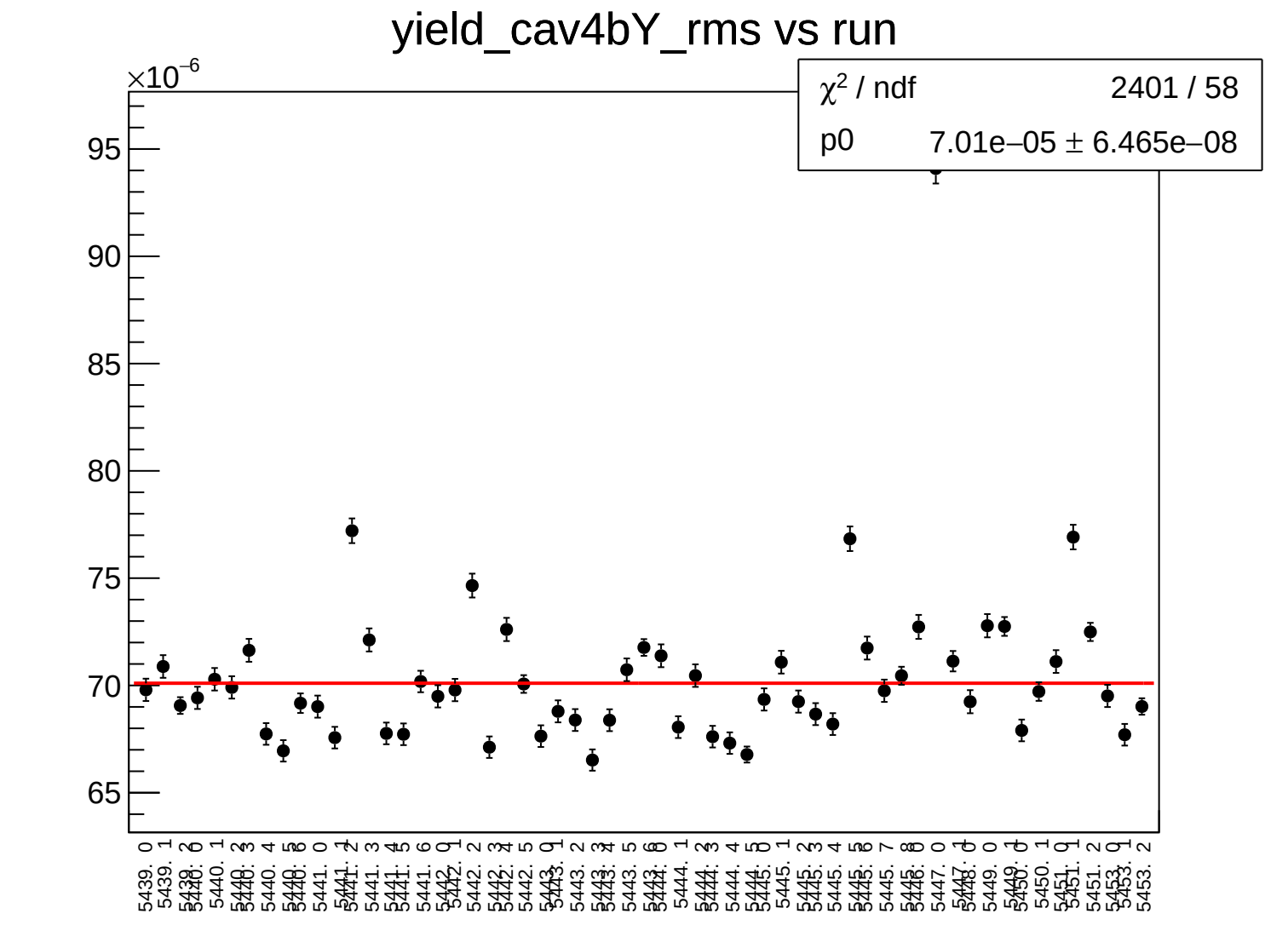

yield_cav4bX_mean vs run
χ² / ndf 8.641e+04 / 58
p0 6.532 ± 1.673e−07
6.5319
6.53185
6.5318
6.53175
6.5317
pull
Entries 59
Mean −33.4
Std Dev 60.99
120
100
80
60
40
20
0
−20
−40
−60
−80

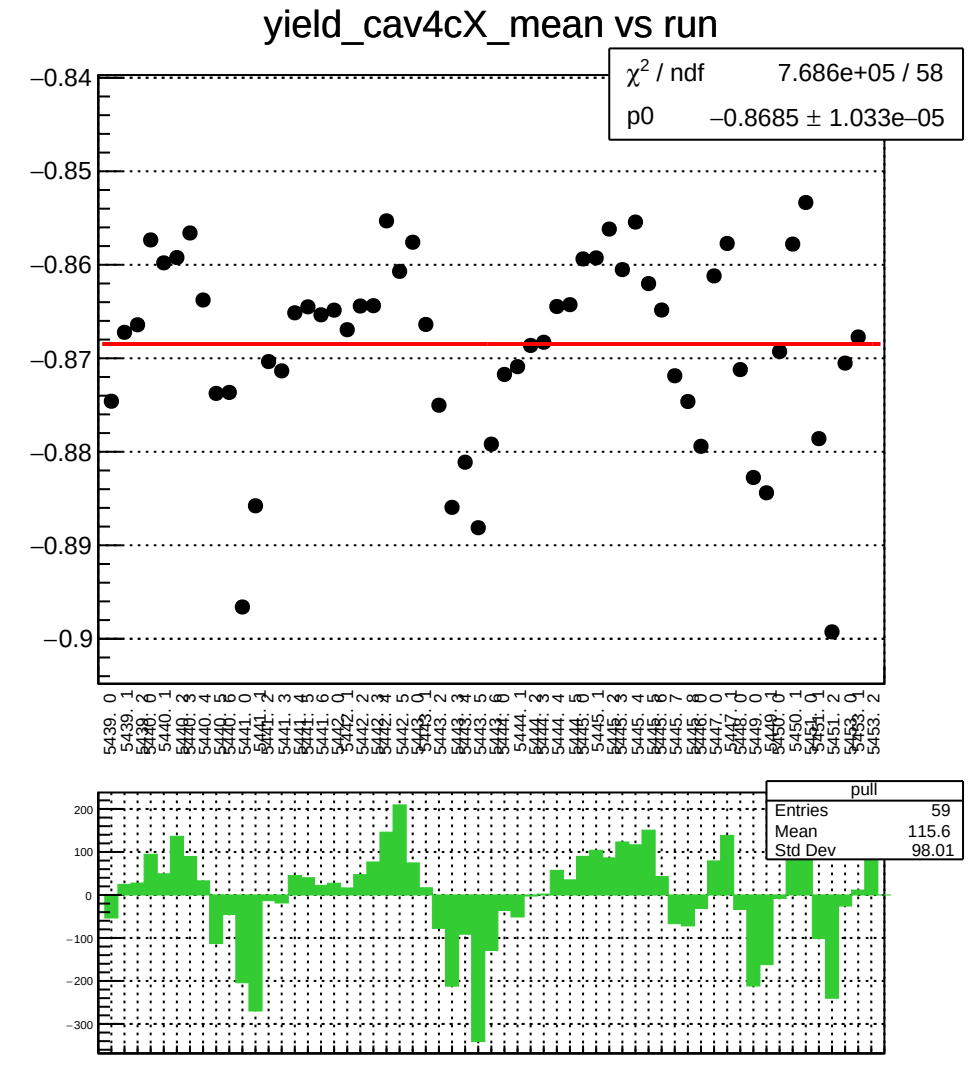

pull1D
Entries 59
Mean −3.349
Std Dev 4.664
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

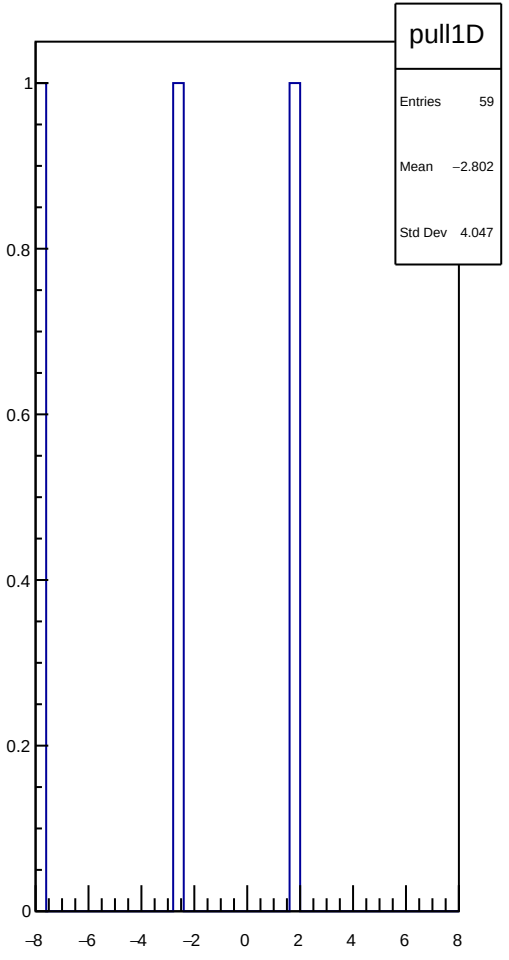

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 1332 / 58
p0 0.0001283 ± 1.183e−07
0.155
0.15
0.145
0.14
0.135
0.13
0.125
0.12

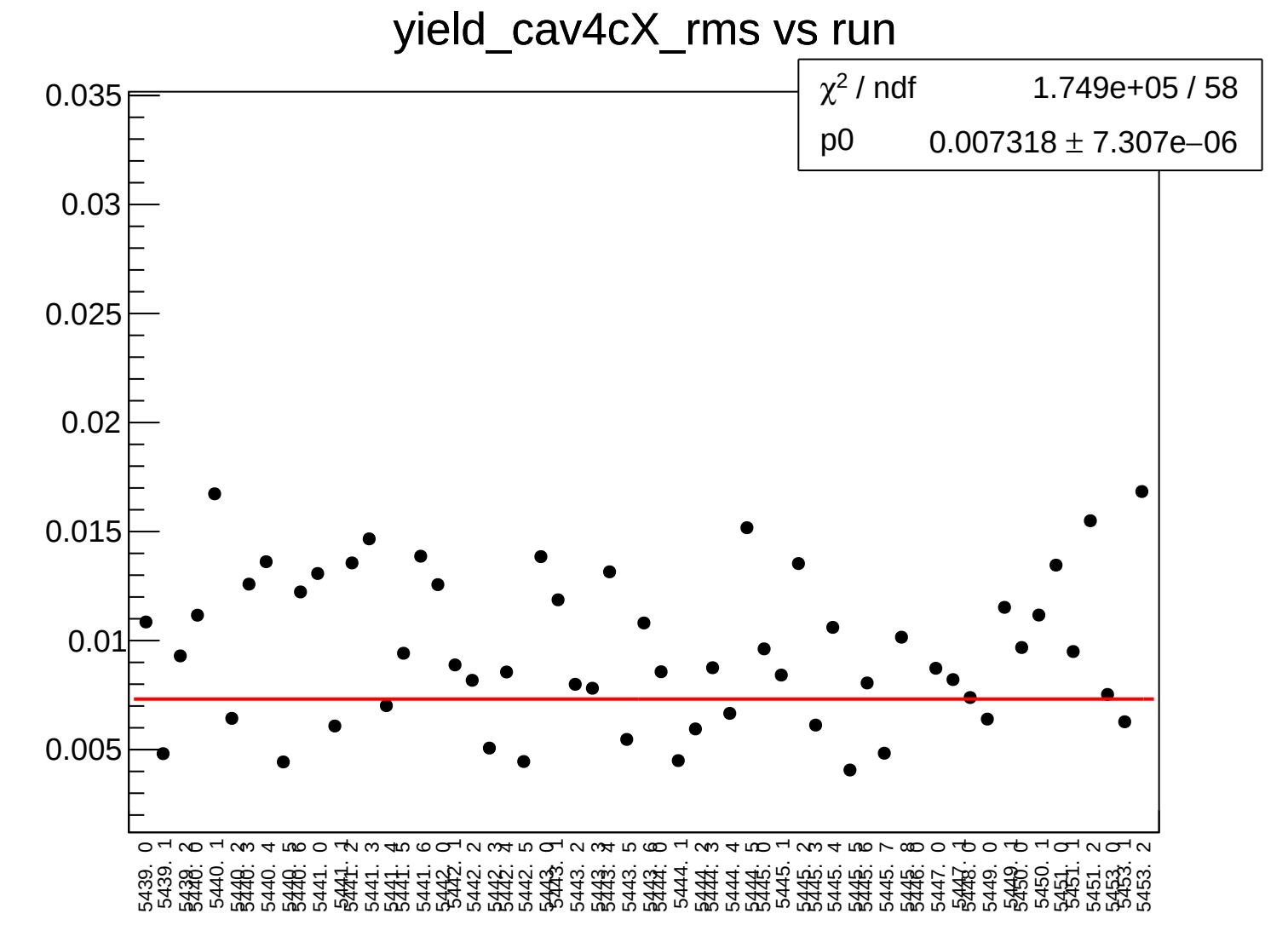

yield_cav4bY_mean vs run
χ² / ndf 5.475e+06 / 58
p0 3.564 ± 9.144e−08
3.5644
3.5643
3.5642
3.5641
3.564
3.5639
3.5638
3.5637
3.5636
pull
Entries 59
Mean −1557
Std Dev 1588
400
200
0
−200
−400
−600
−800

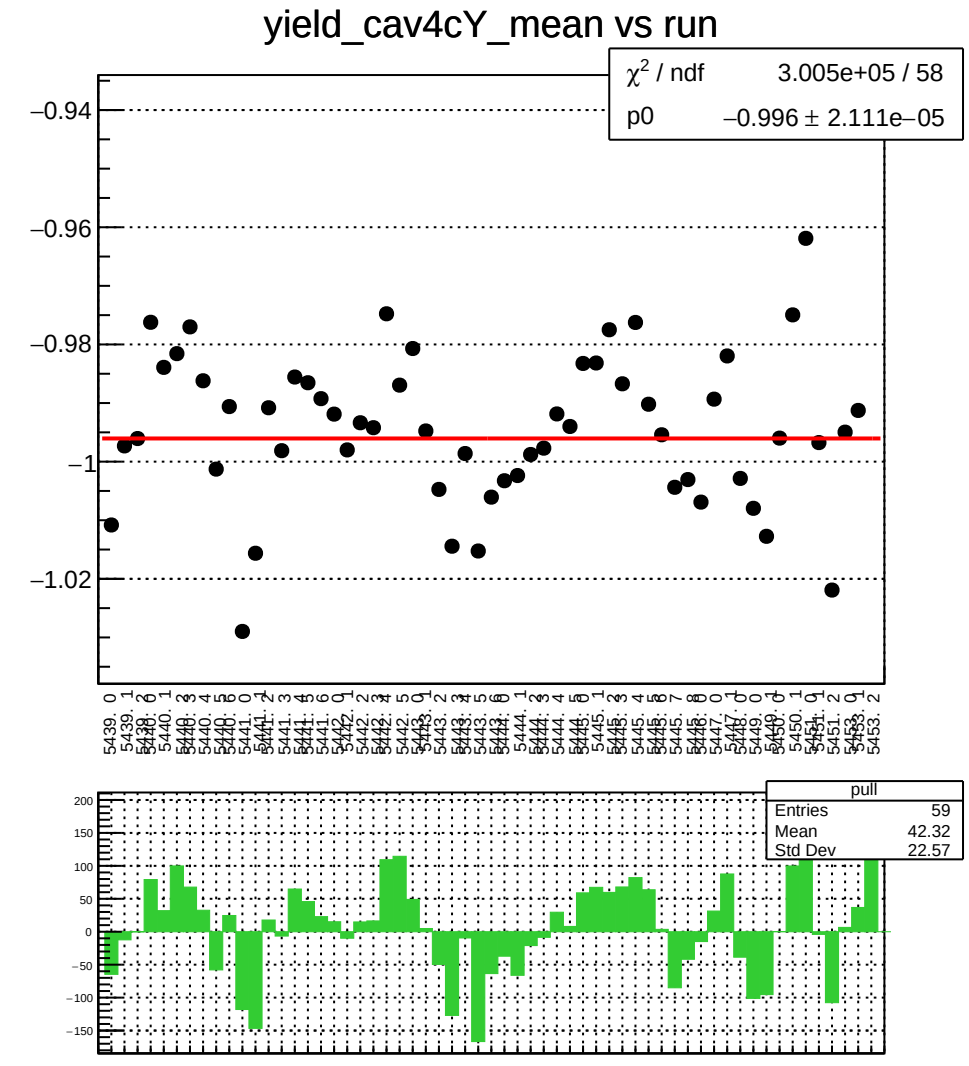

pull1D
Entries 59
Mean 5.092
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

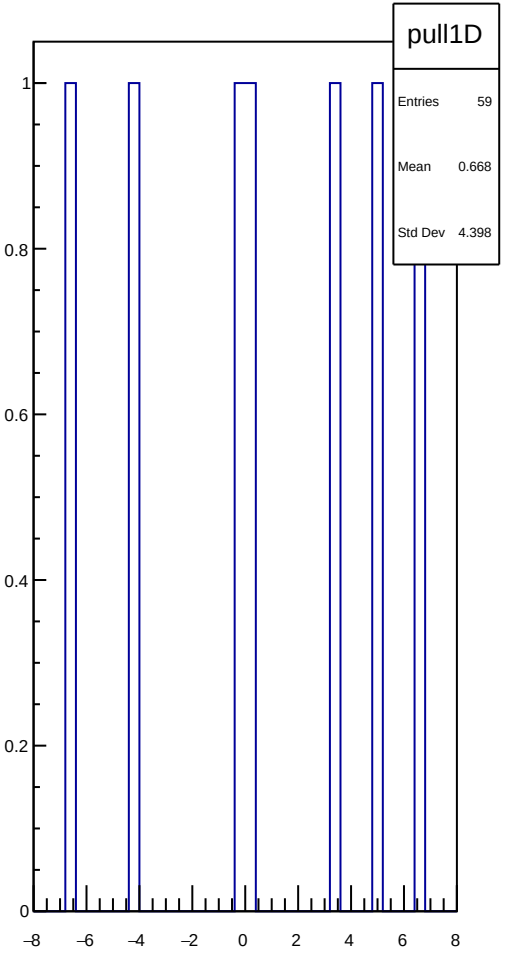

yield_cav4bY_rms vs run
×10⁻⁶
χ² / ndf 2401 / 58
p0 7.01e−05 ± 6.465e−08
95
90
85
80
75
70
65

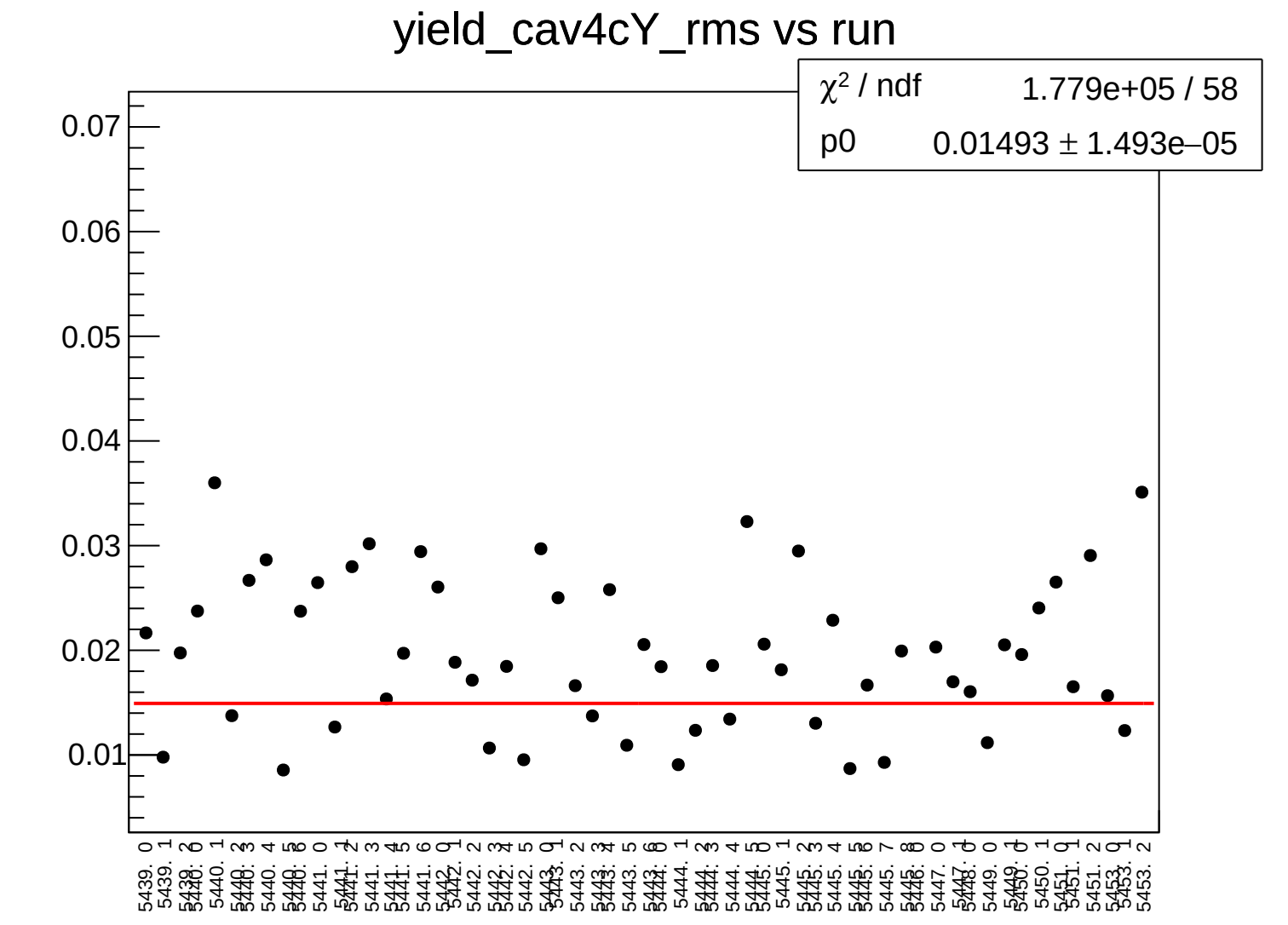

yield_cav4cX_mean vs run
χ² / ndf 7.686e+05 / 58
p0 −0.8685 ± 1.033e−05
pull
Entries 59
Mean 115.6
Std Dev 98.01

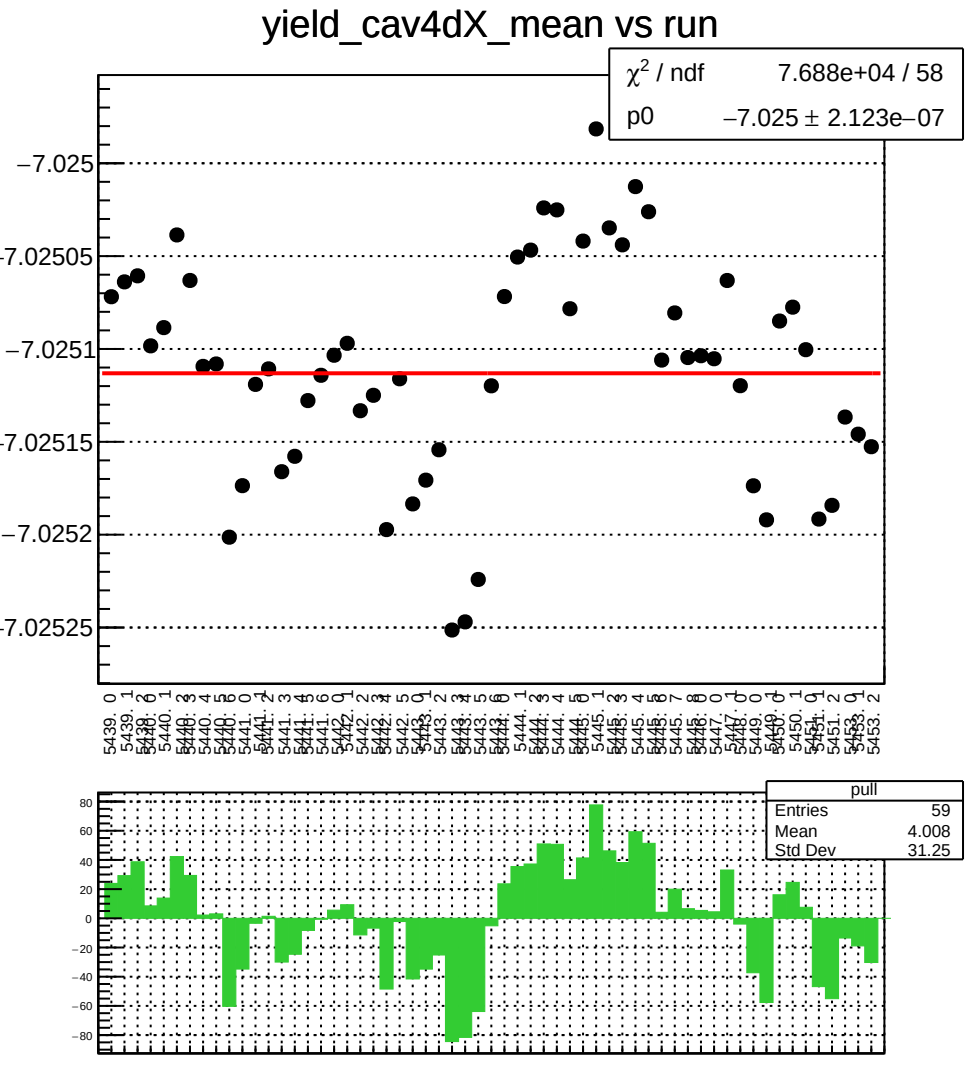

pull1D
Entries 59
Mean −2.802
Std Dev 4.047

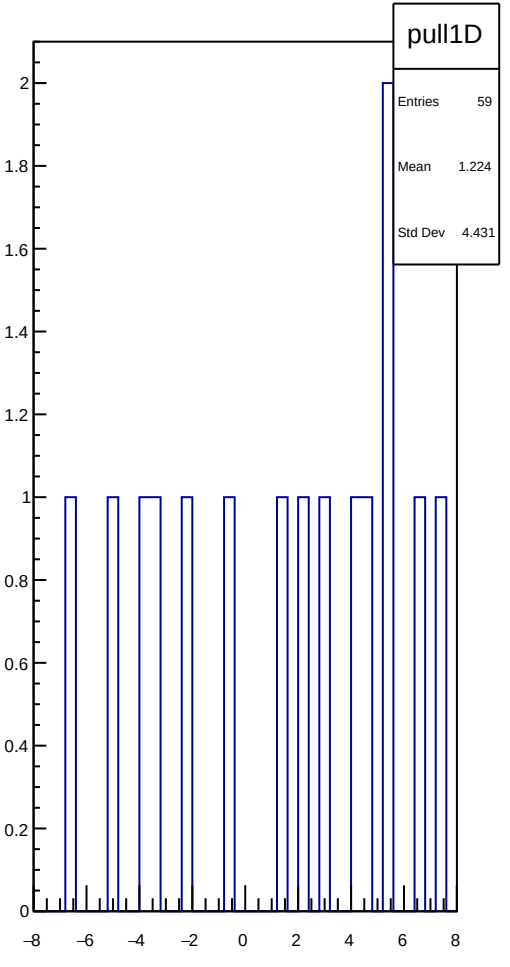

yield_cav4cX_rms vs run
χ² / ndf 1.749e+05 / 58
p0 0.007318 ± 7.307e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

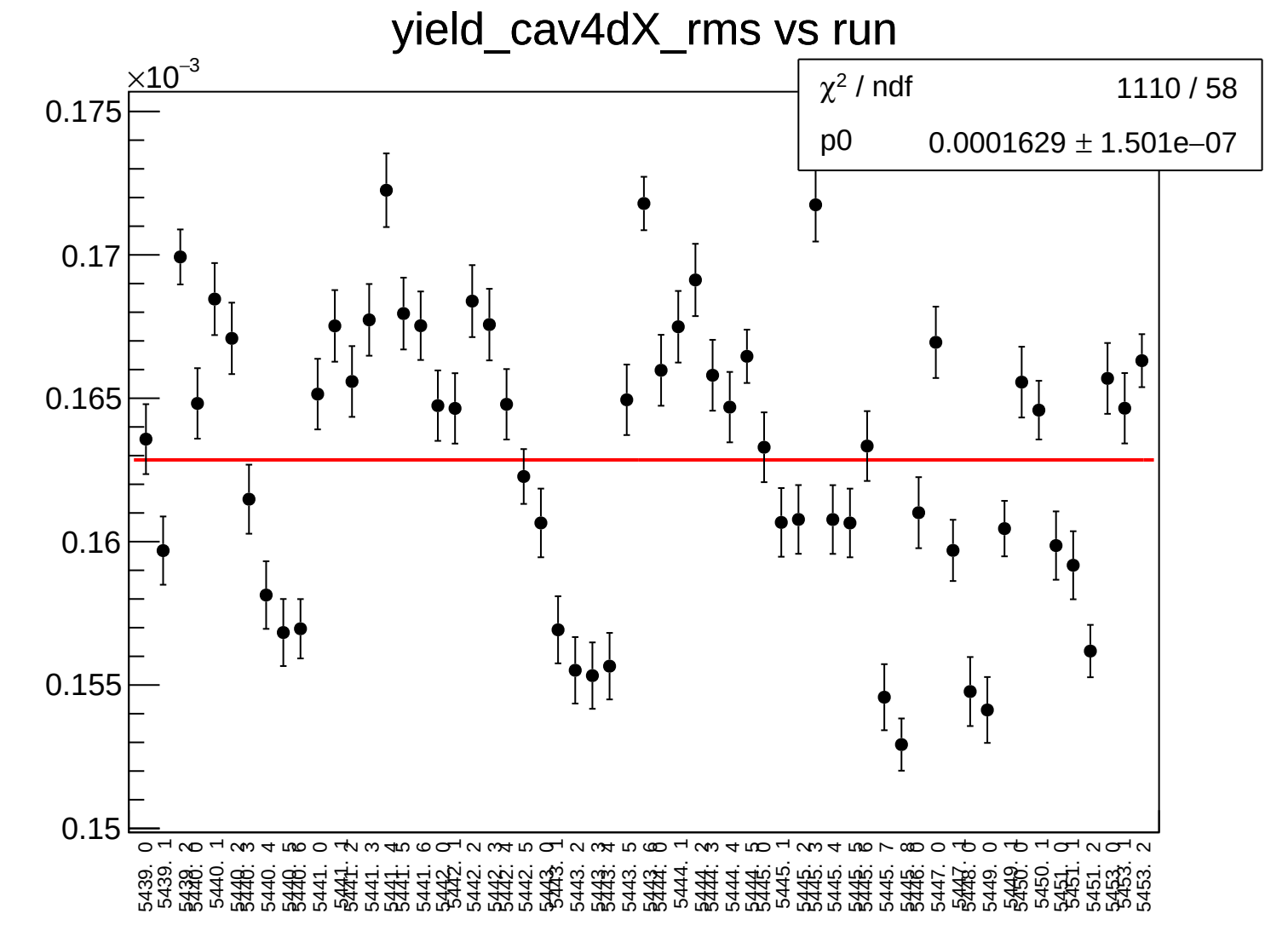

yield_cav4cY_mean vs run
χ² / ndf 3.005e+05 / 58
p0 −0.996 ± 2.111e−05
−0.94
−0.96
−0.98
−1
−1.02
pull
Entries 59
Mean 42.32
Std Dev 22.57
200
150
100
50
0
−50
−100
−150

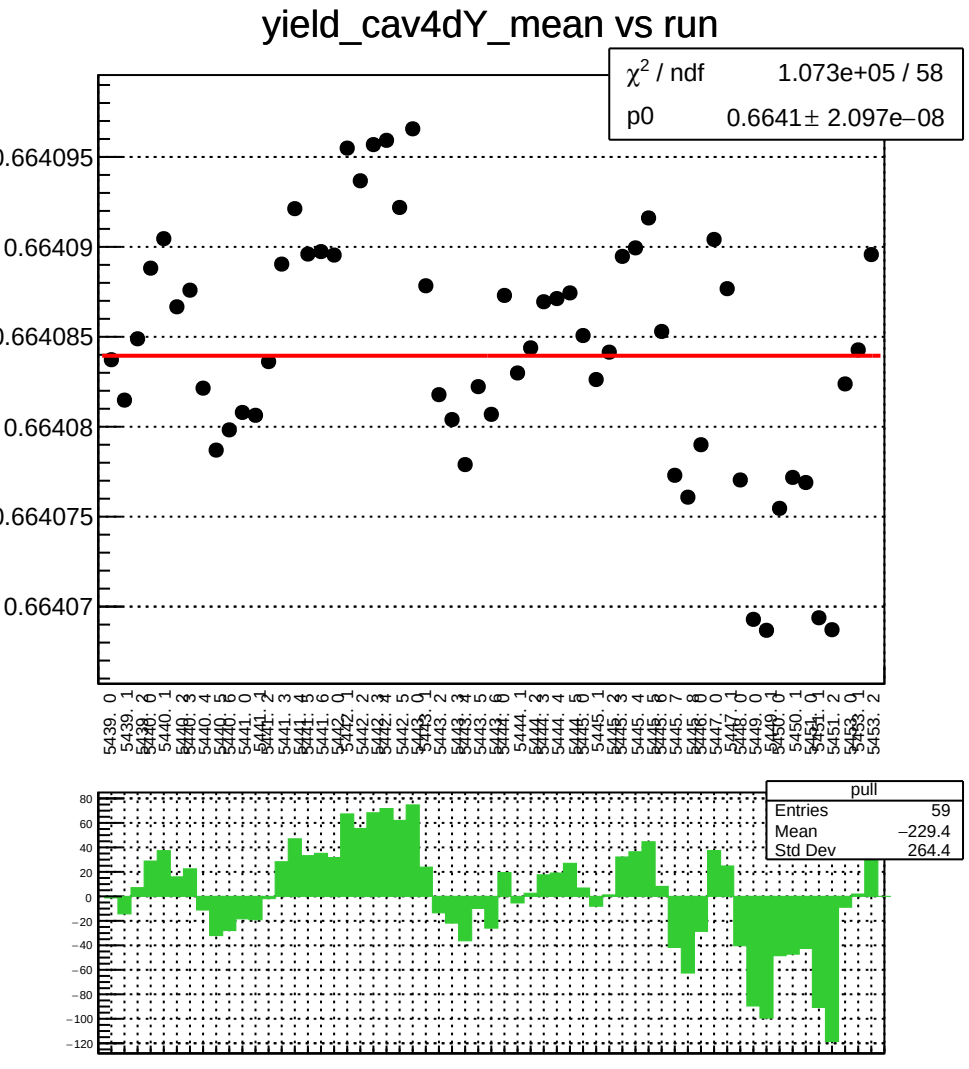

pull1D
Entries 59
Mean 0.668
Std Dev 4.398
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

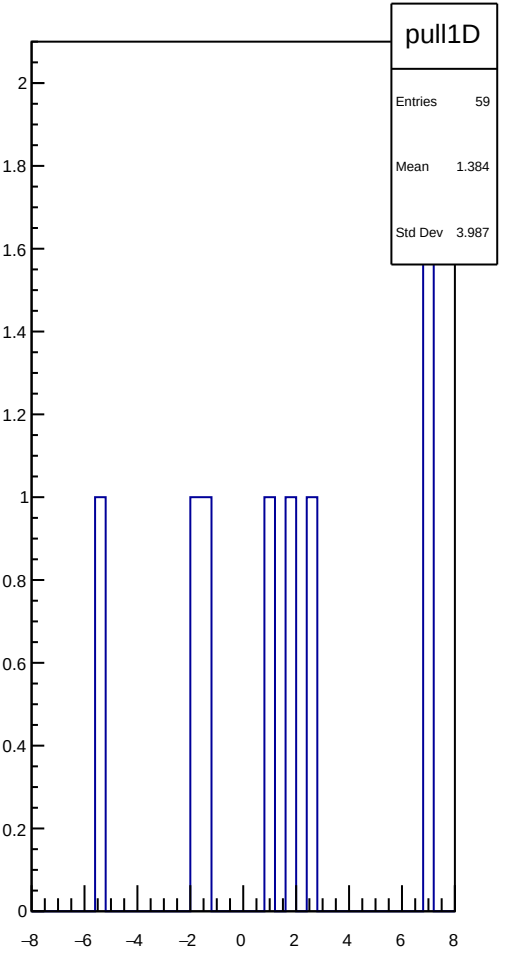

yield_cav4cY_rms vs run
χ² / ndf 1.779e+05 / 58
p0 0.01493 ± 1.493e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

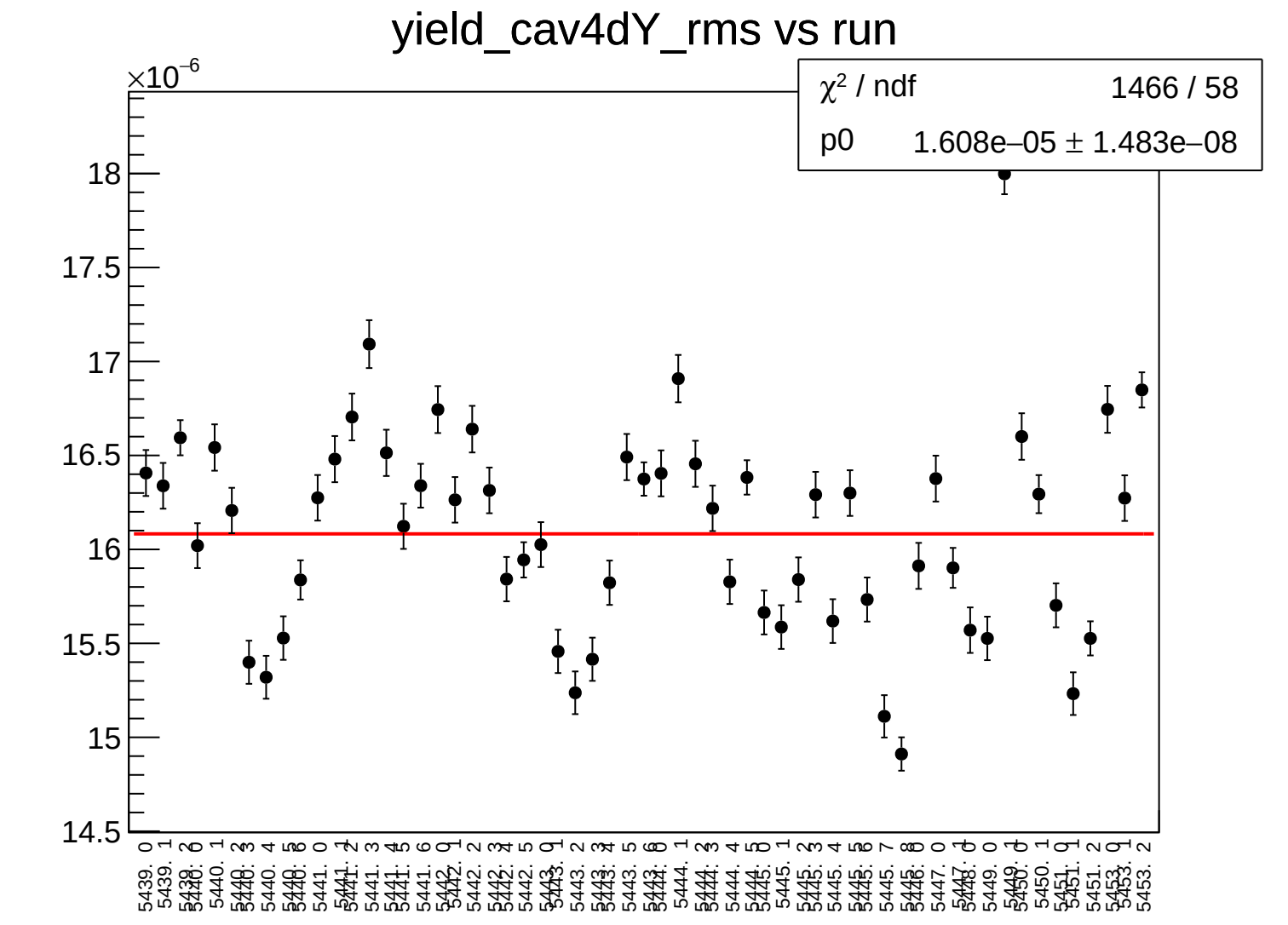

yield_cav4dX_mean vs run
χ² / ndf 7.688e+04 / 58
p0 −7.025 ± 2.123e−07
−7.025
−7.02505
−7.0251
−7.02515
−7.0252
−7.02525
pull
Entries 59
Mean 4.008
Std Dev 31.25
80
60
40
20
0
−20
−40
−60
−80

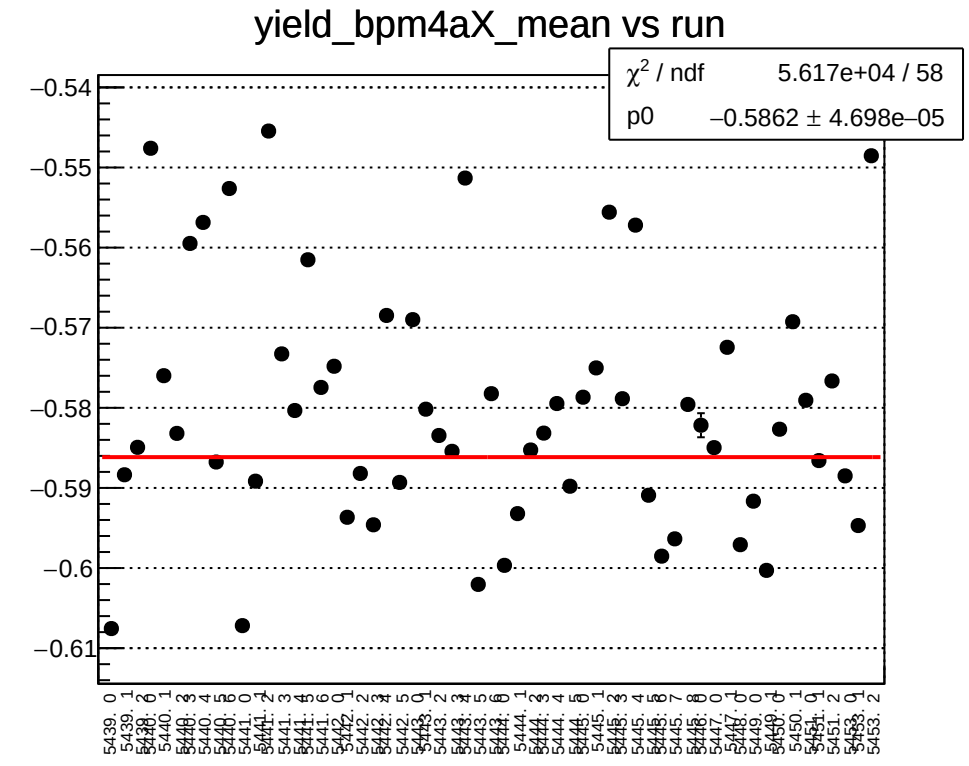

pull1D
Entries 59
Mean 1.224
Std Dev 4.431
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

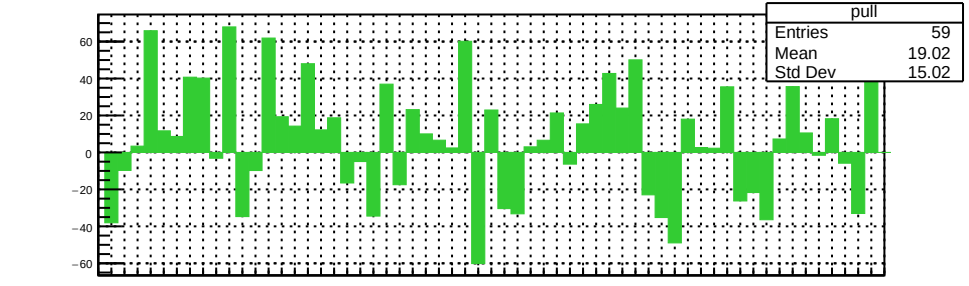

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 1110 / 58
p0 0.0001629 ± 1.501e−07
0.175
0.17
0.165
0.16
0.155
0.15

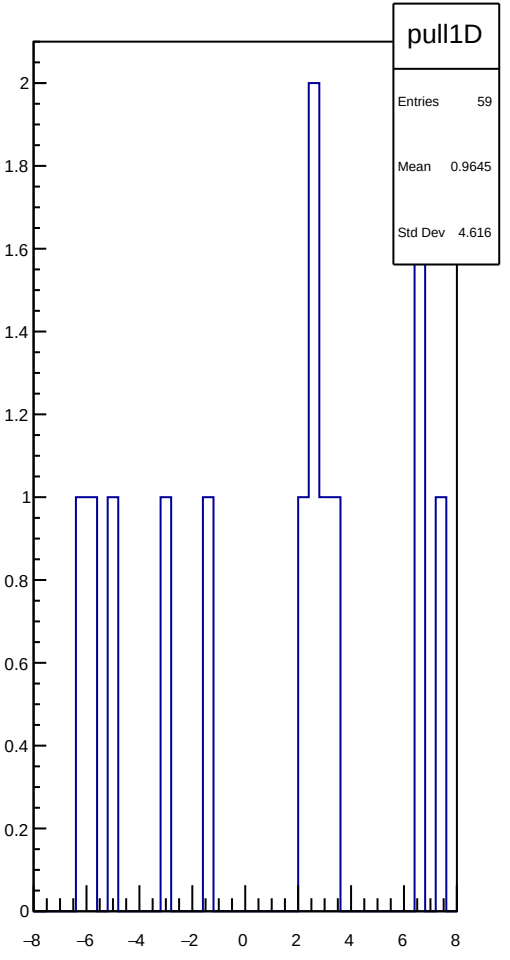

yield_cav4dY_mean vs run
χ² / ndf 1.073e+05 / 58
p0 0.6641 ± 2.097e−08
0.664095
0.66409
0.664085
0.66408
0.664075
0.66407
pull
Entries 59
Mean −229.4
Std Dev 264.4

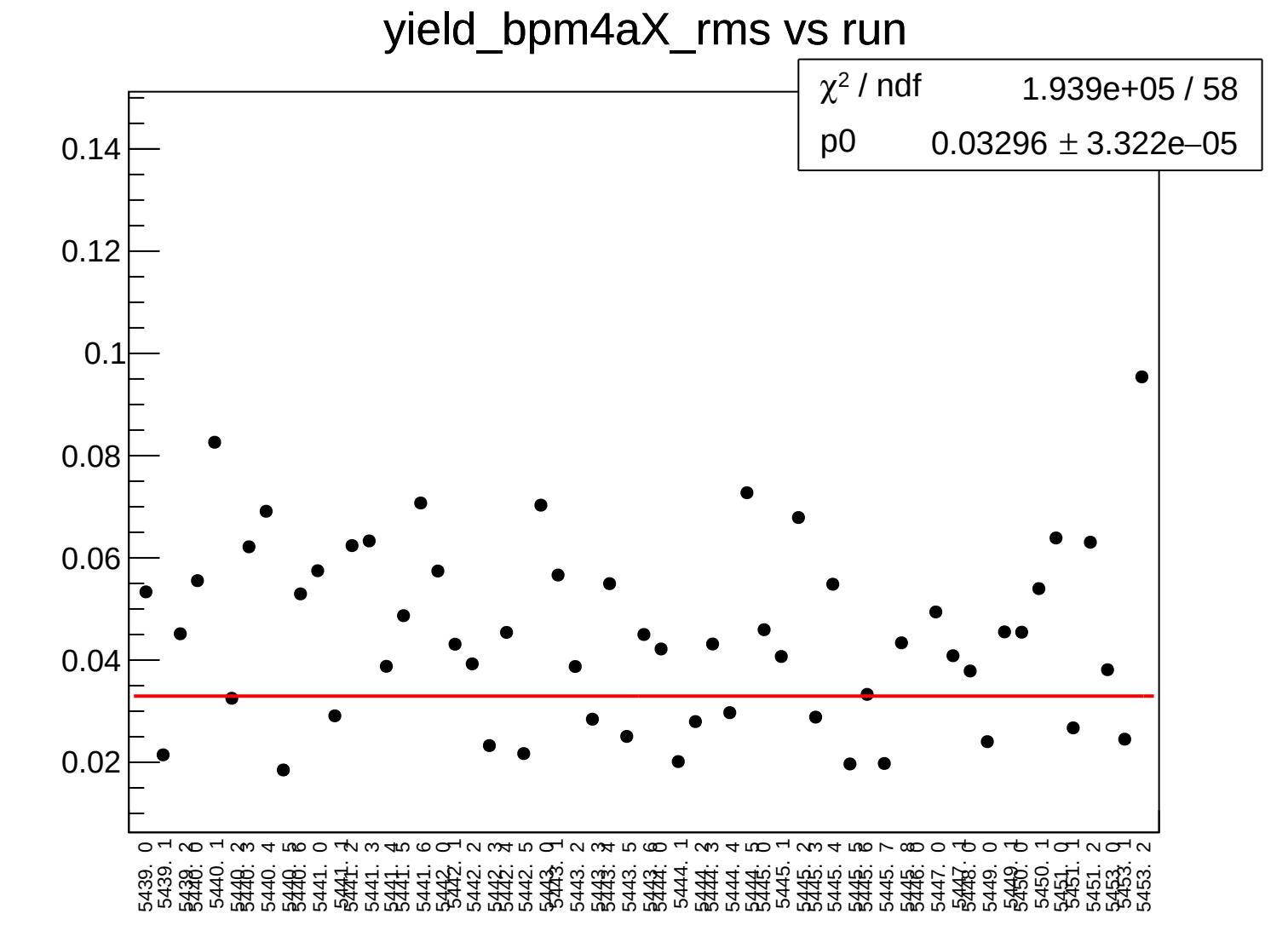

pull1D
Entries 59
Mean 1.384
Std Dev 3.987

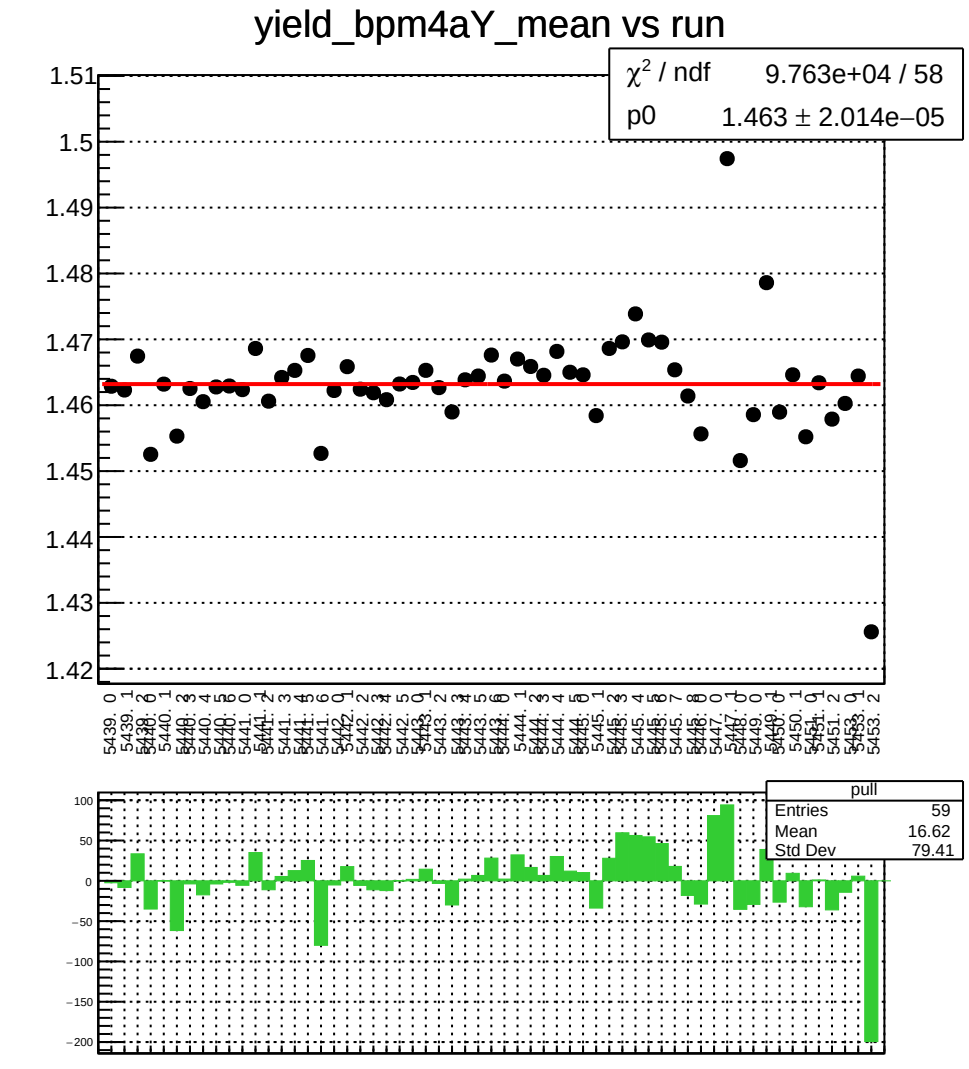

yield_cav4dY_rms vs run
×10⁻⁶
χ² / ndf 1466 / 58
p0 1.608e−05 ± 1.483e−08
18
17.5
17
16.5
16
15.5
15
14.5

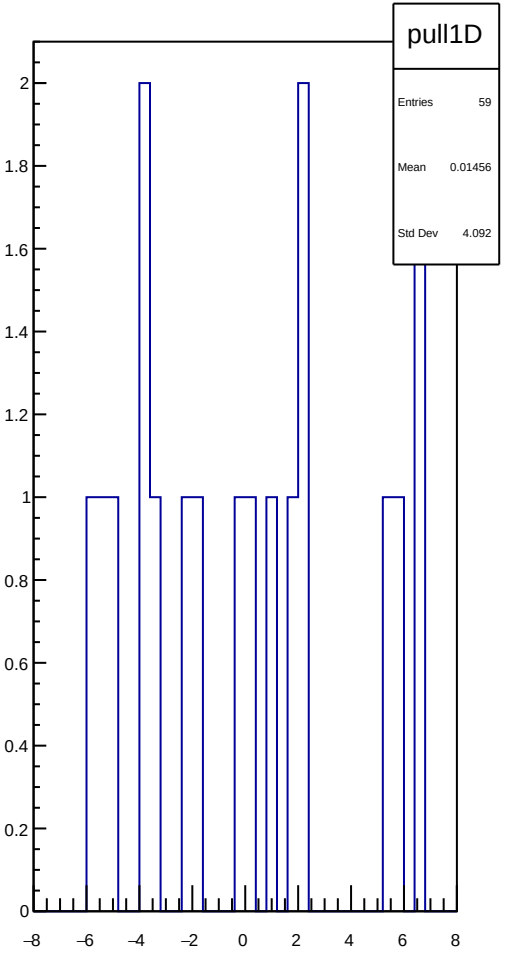

yield_bpm4aX_mean vs run
χ² / ndf 5.617e+04 / 58
p0 −0.5862 ± 4.698e−05
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61

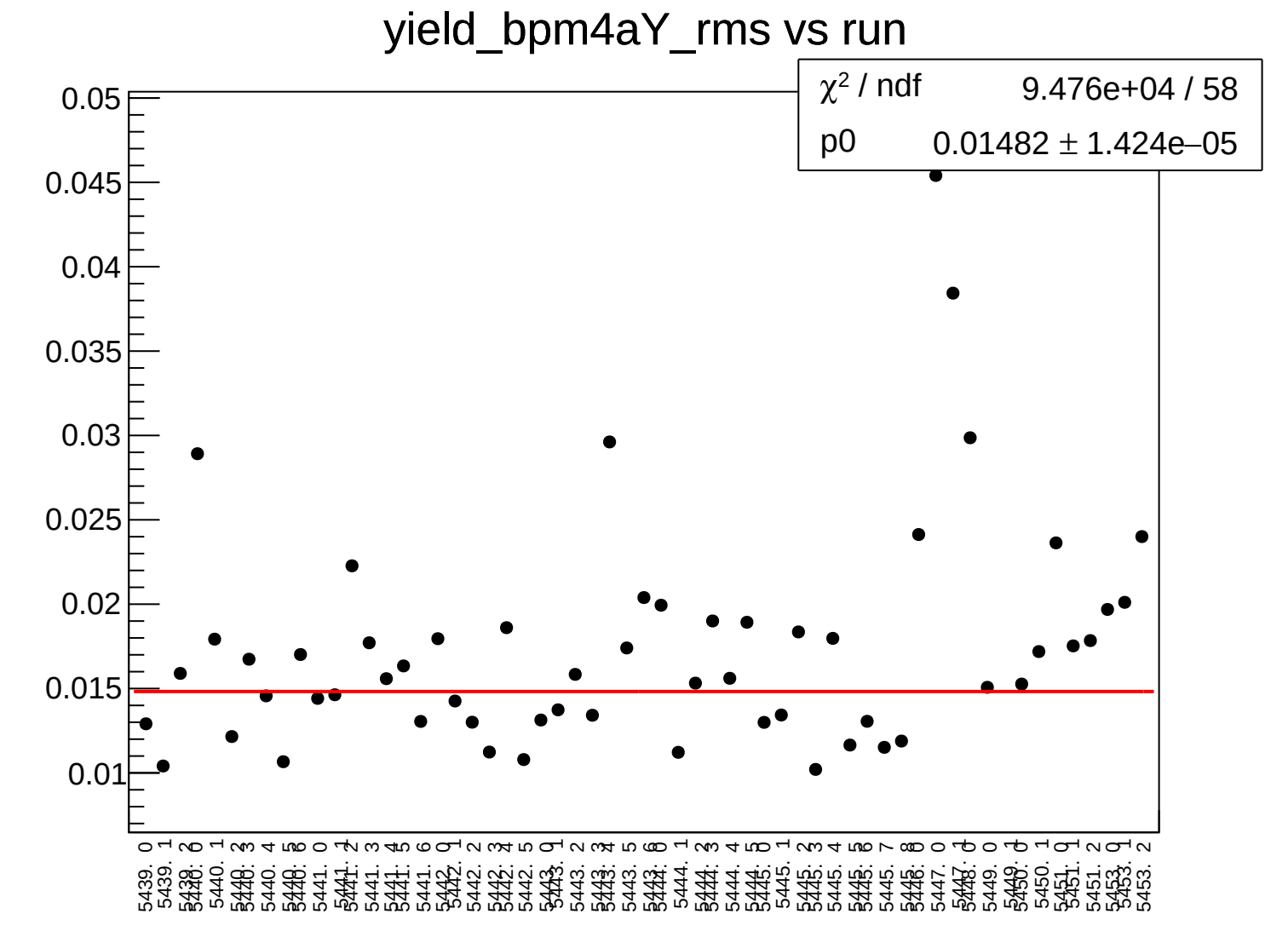

pull
Entries 59
Mean 19.02
Std Dev 15.02
60
40
20
0
−20
−40
−60

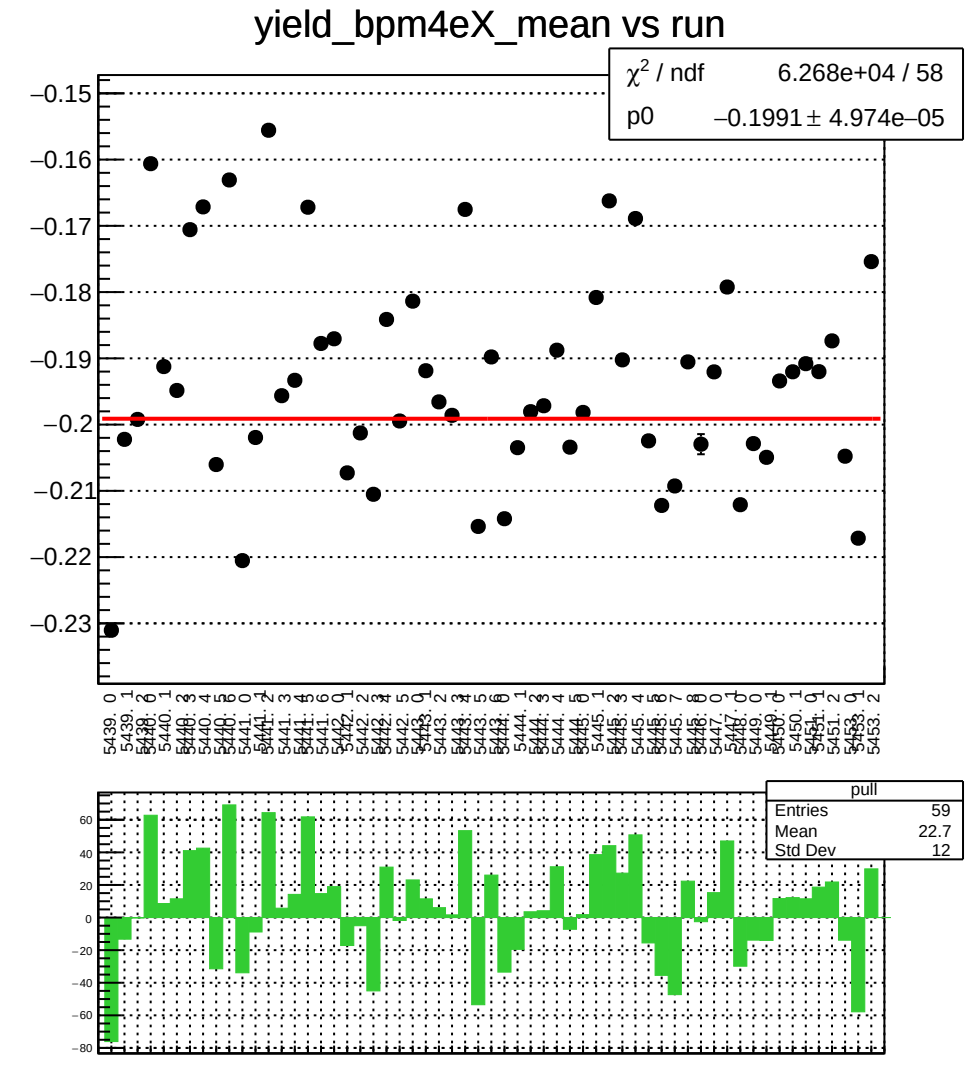

pull1D
Entries 59
Mean 0.9645
Std Dev 4.616
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

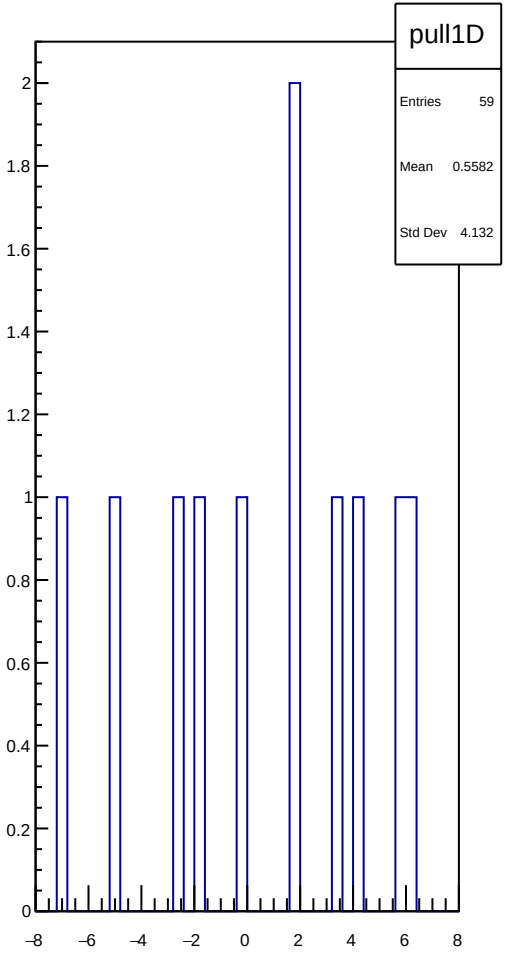

yield_bpm4aX_rms vs run
χ² / ndf 1.939e+05 / 58
p0 0.03296 ± 3.322e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

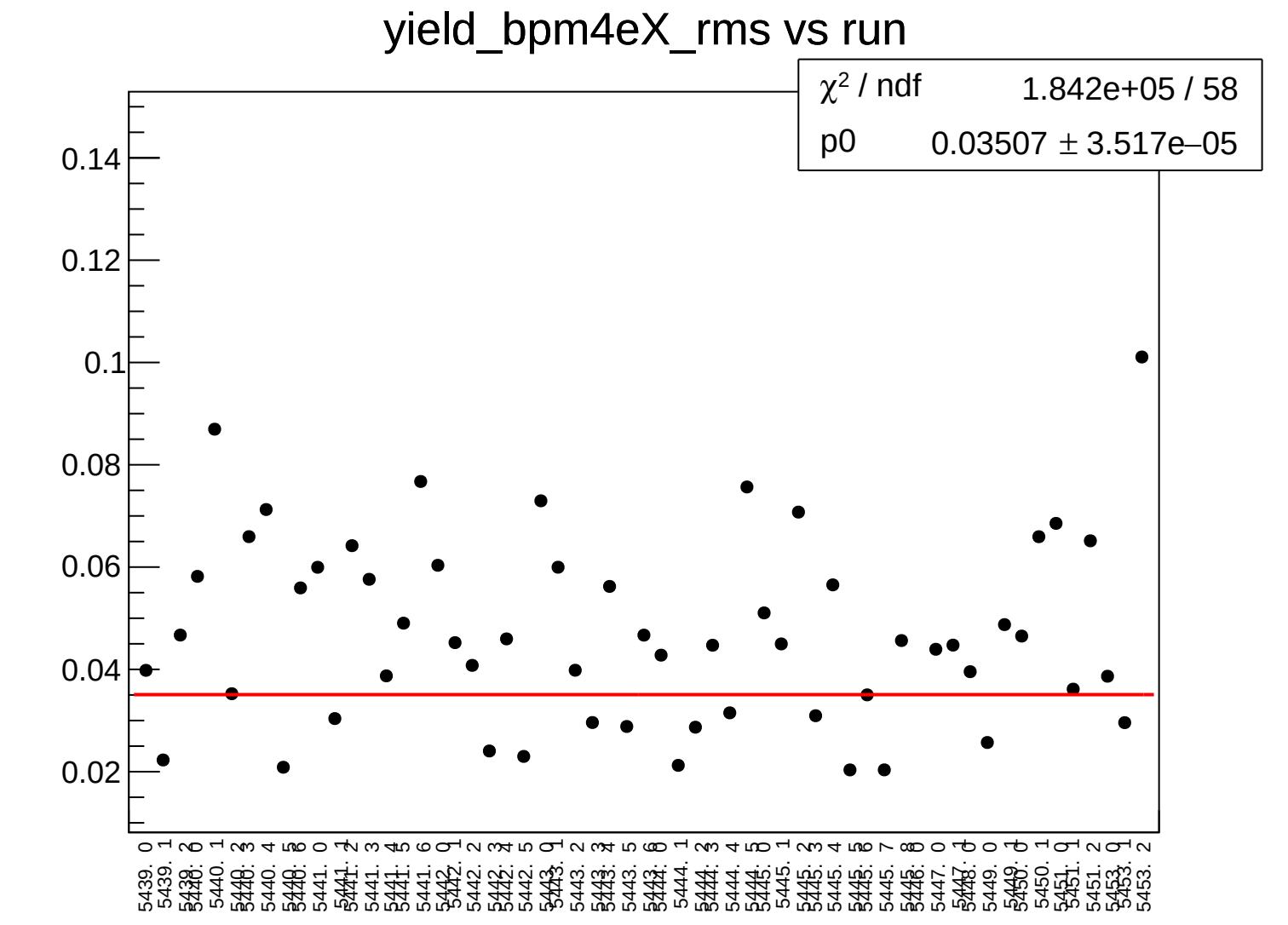

yield_bpm4aY_mean vs run
χ² / ndf 9.763e+04 / 58
p0 1.463 ± 2.014e−05
pull
Entries 59
Mean 16.62
Std Dev 79.41

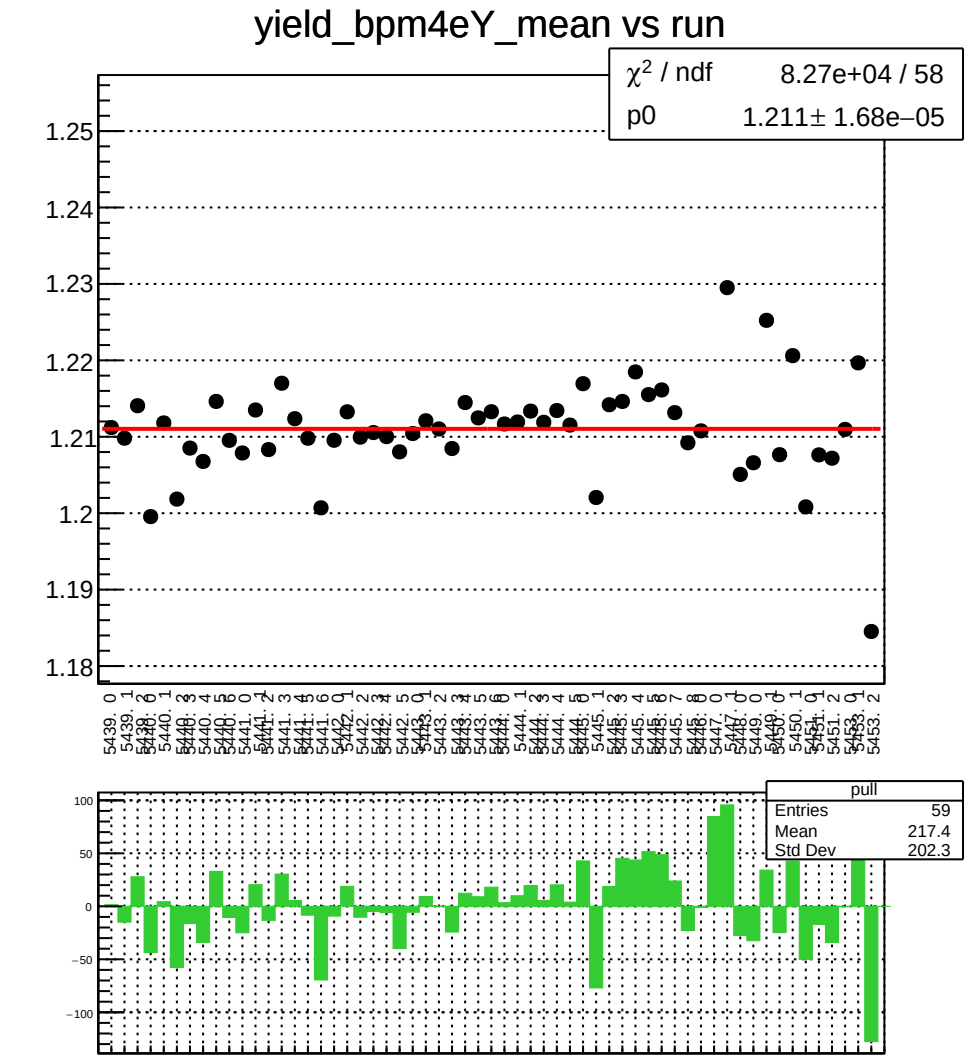

pull1D
Entries 59
Mean 0.01456
Std Dev 4.092

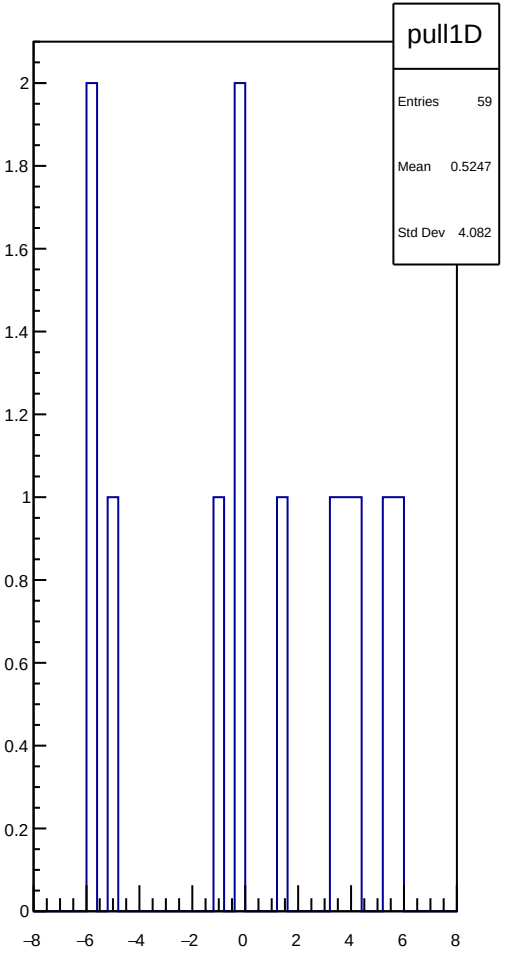

yield_bpm4aY_rms vs run
χ² / ndf 9.476e+04 / 58
p0 0.01482 ± 1.424e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

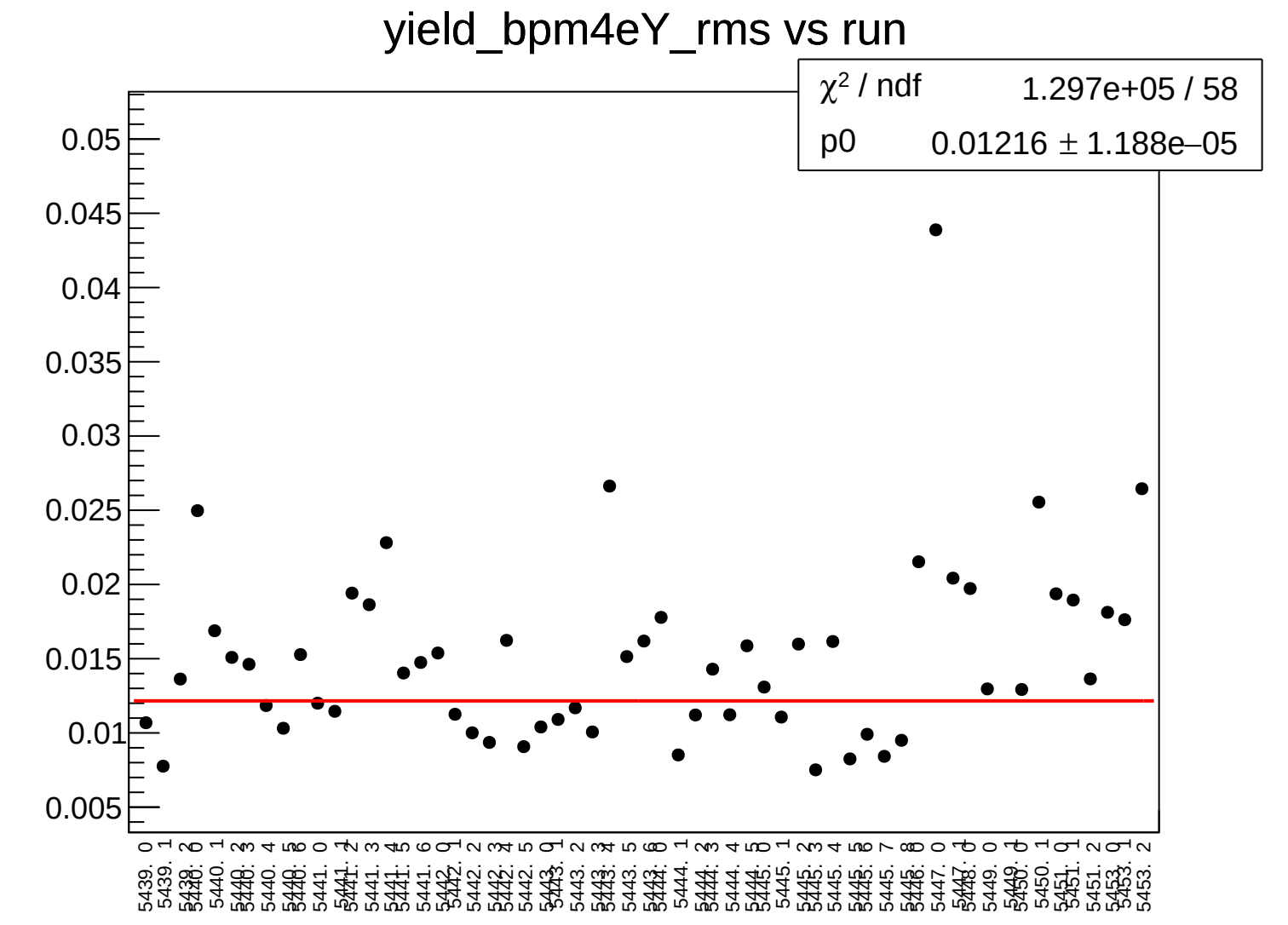

yield_bpm4eX_mean vs run
χ² / ndf 6.268e+04 / 58
p0 −0.1991 ± 4.974e−05
pull
Entries 59
Mean 22.7
Std Dev 12

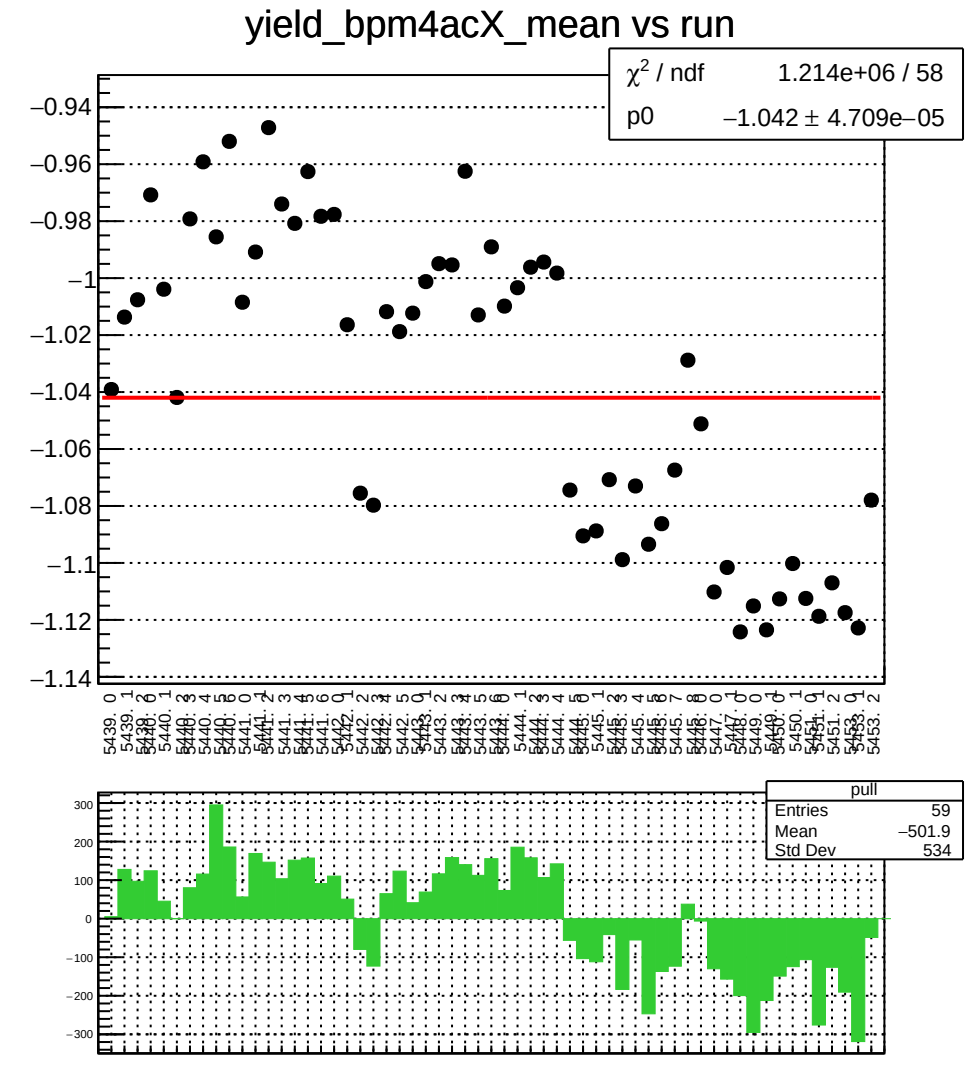

pull1D
Entries 59
Mean 0.5582
Std Dev 4.132

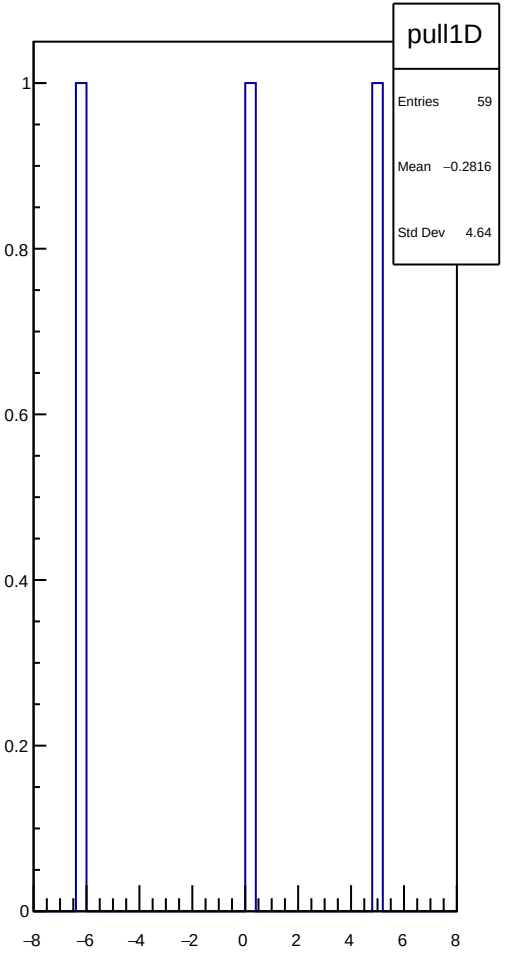

yield_bpm4eX_rms vs run
χ² / ndf 1.842e+05 / 58
p0 0.03507 ± 3.517e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

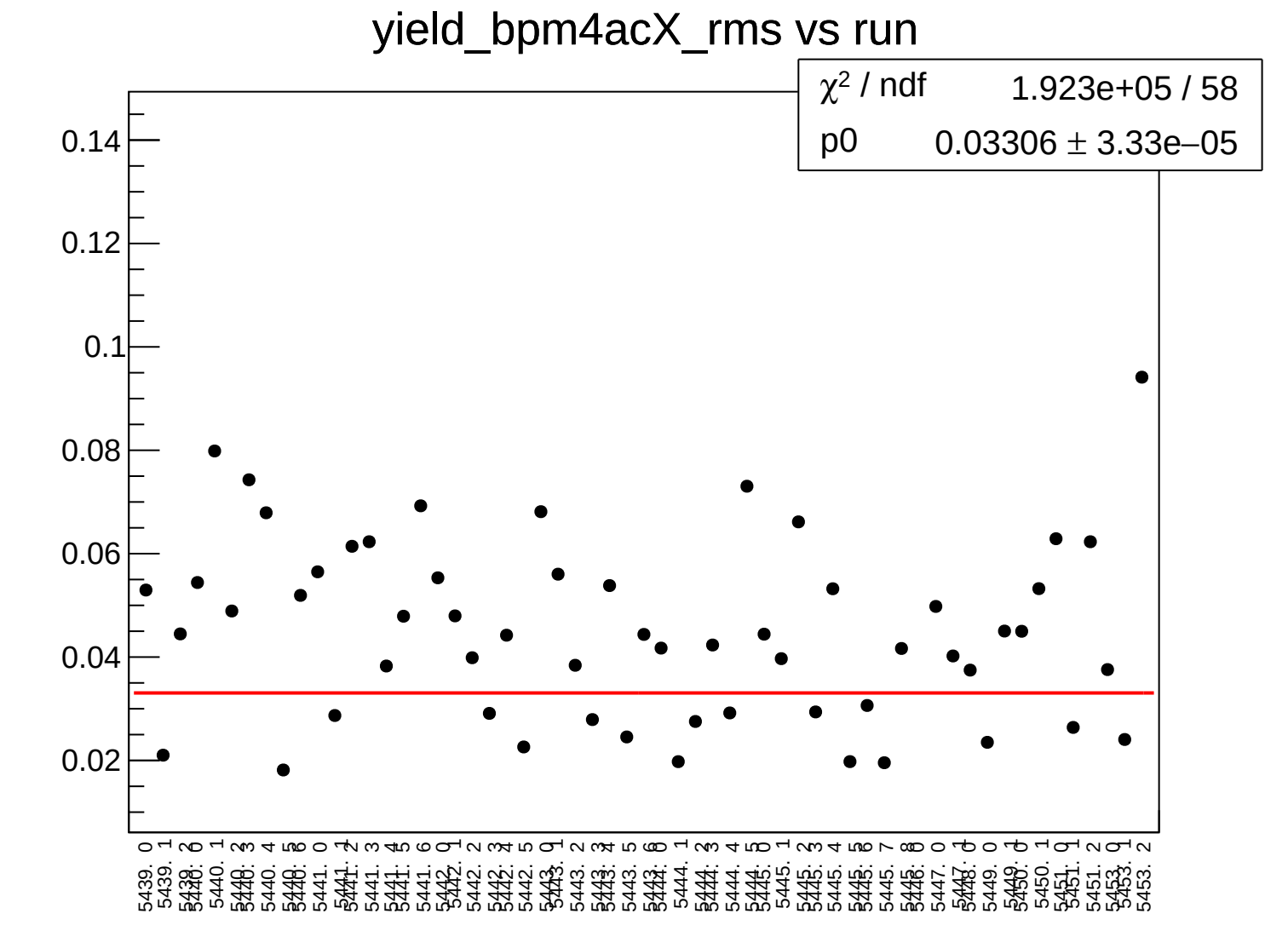

yield_bpm4eY_mean vs run
χ² / ndf 8.27e+04 / 58
p0 1.211± 1.68e−05
pull
Entries 59
Mean 217.4
Std Dev 202.3

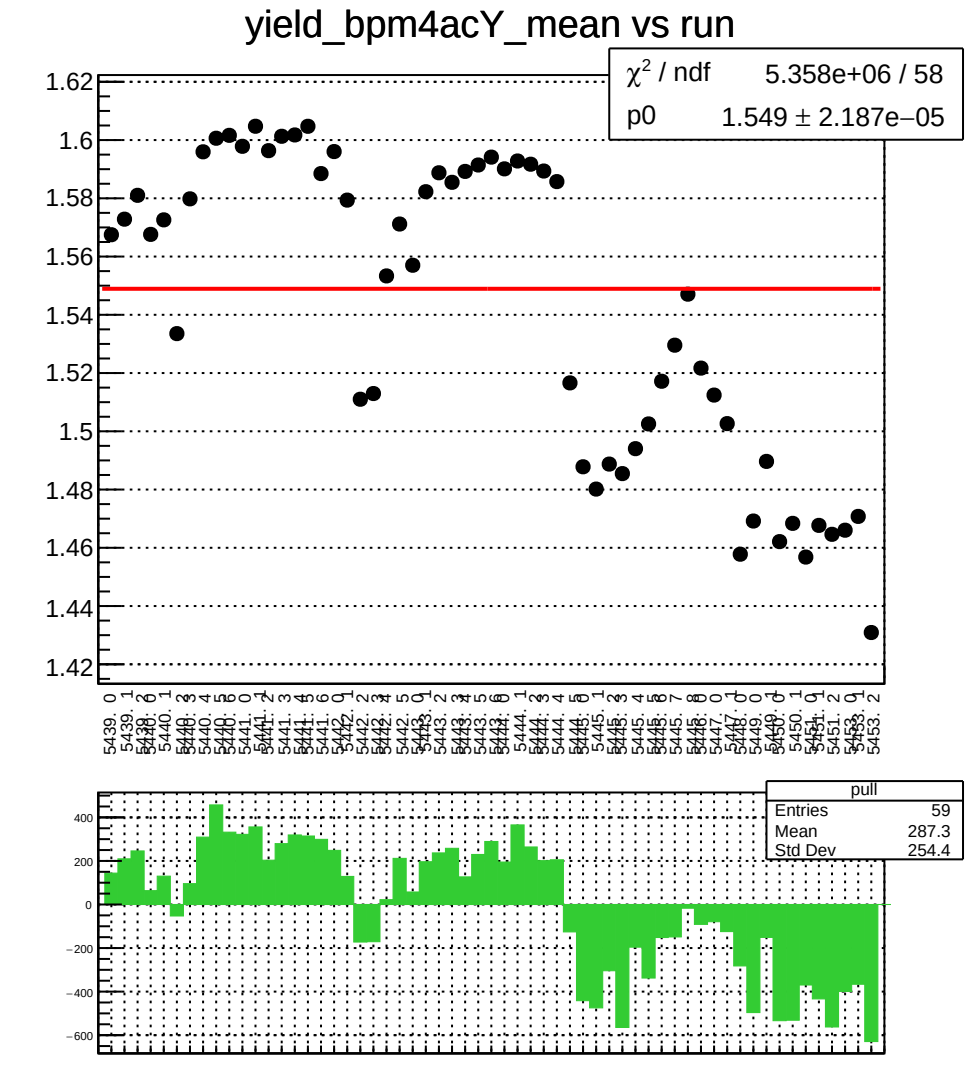

pull1D
Entries 59
Mean 0.5247
Std Dev 4.082

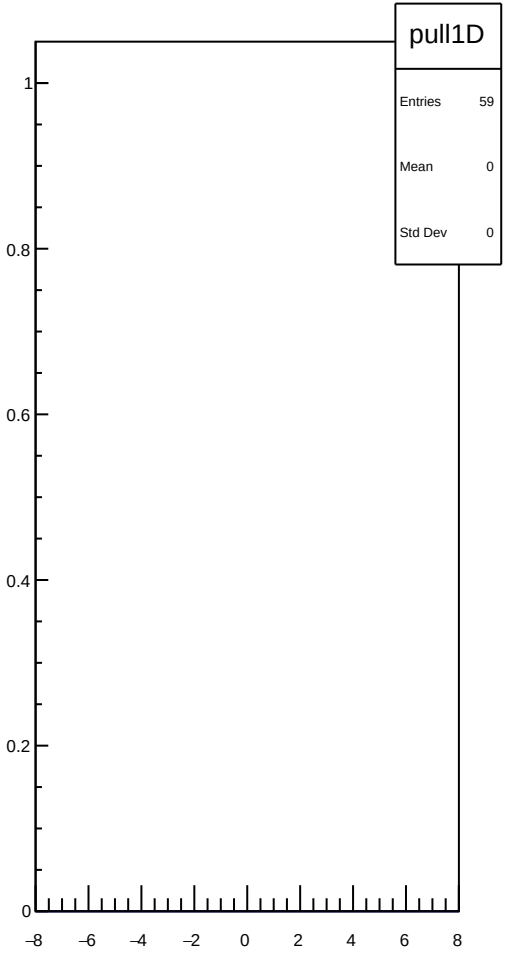

yield_bpm4eY_rms vs run
χ² / ndf 1.297e+05 / 58
p0 0.01216 ± 1.188e–05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

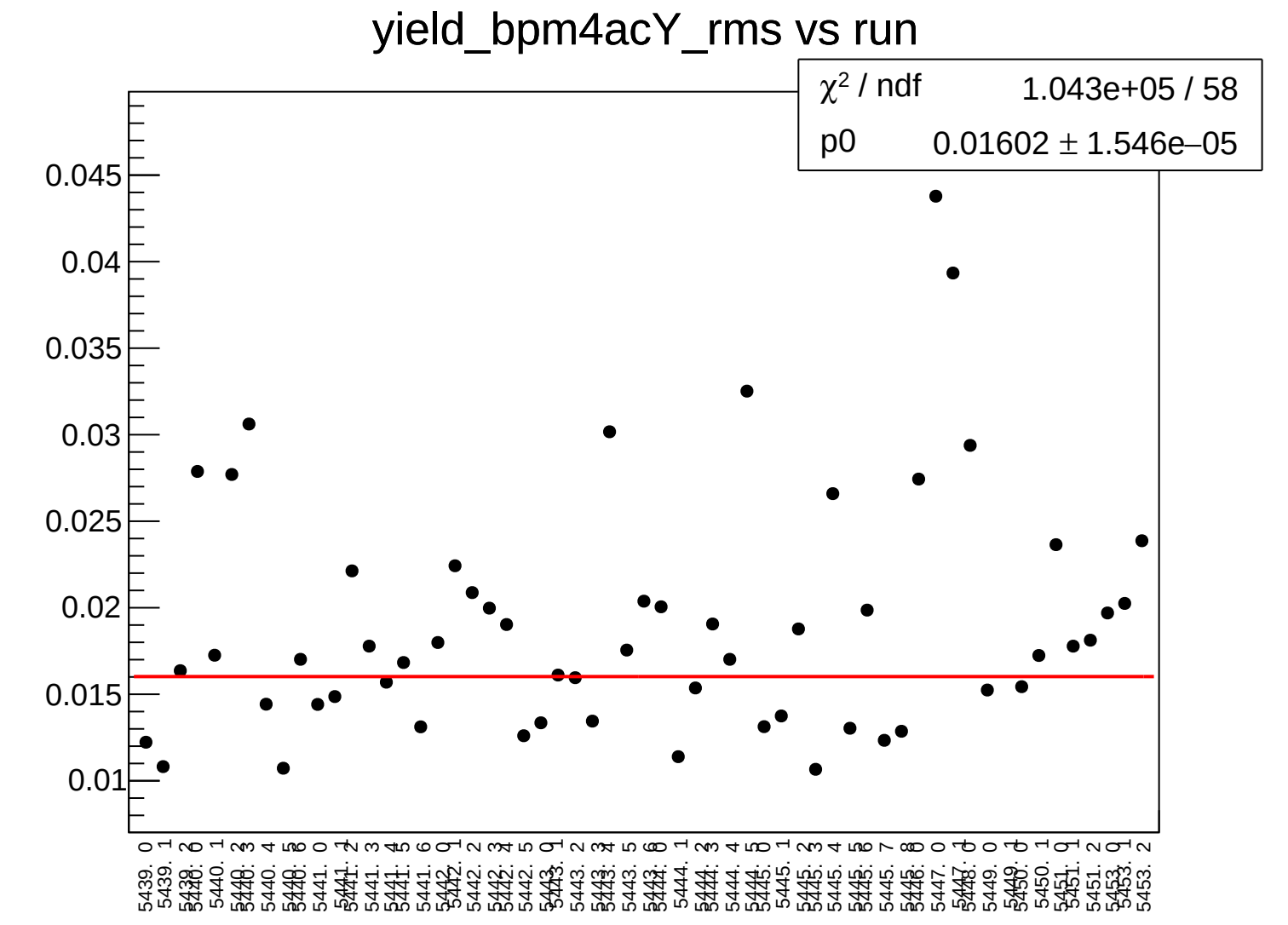

yield_bpm4acX_mean vs run
χ² / ndf 1.214e+06 / 58
p0 −1.042 ± 4.709e−05
pull
Entries 59
Mean −501.9
Std Dev 534

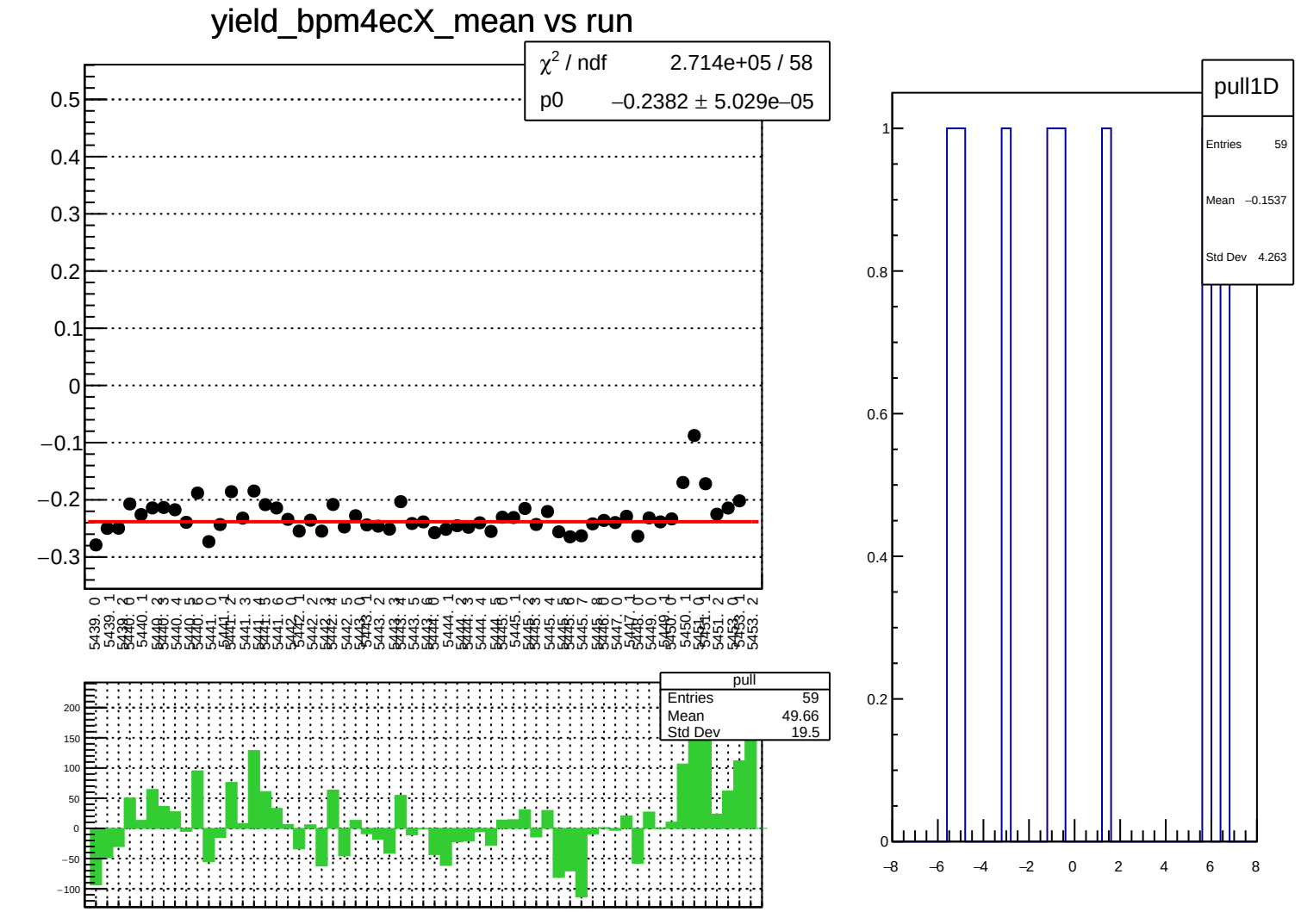

pull1D
Entries 59
Mean −0.2816
Std Dev 4.64

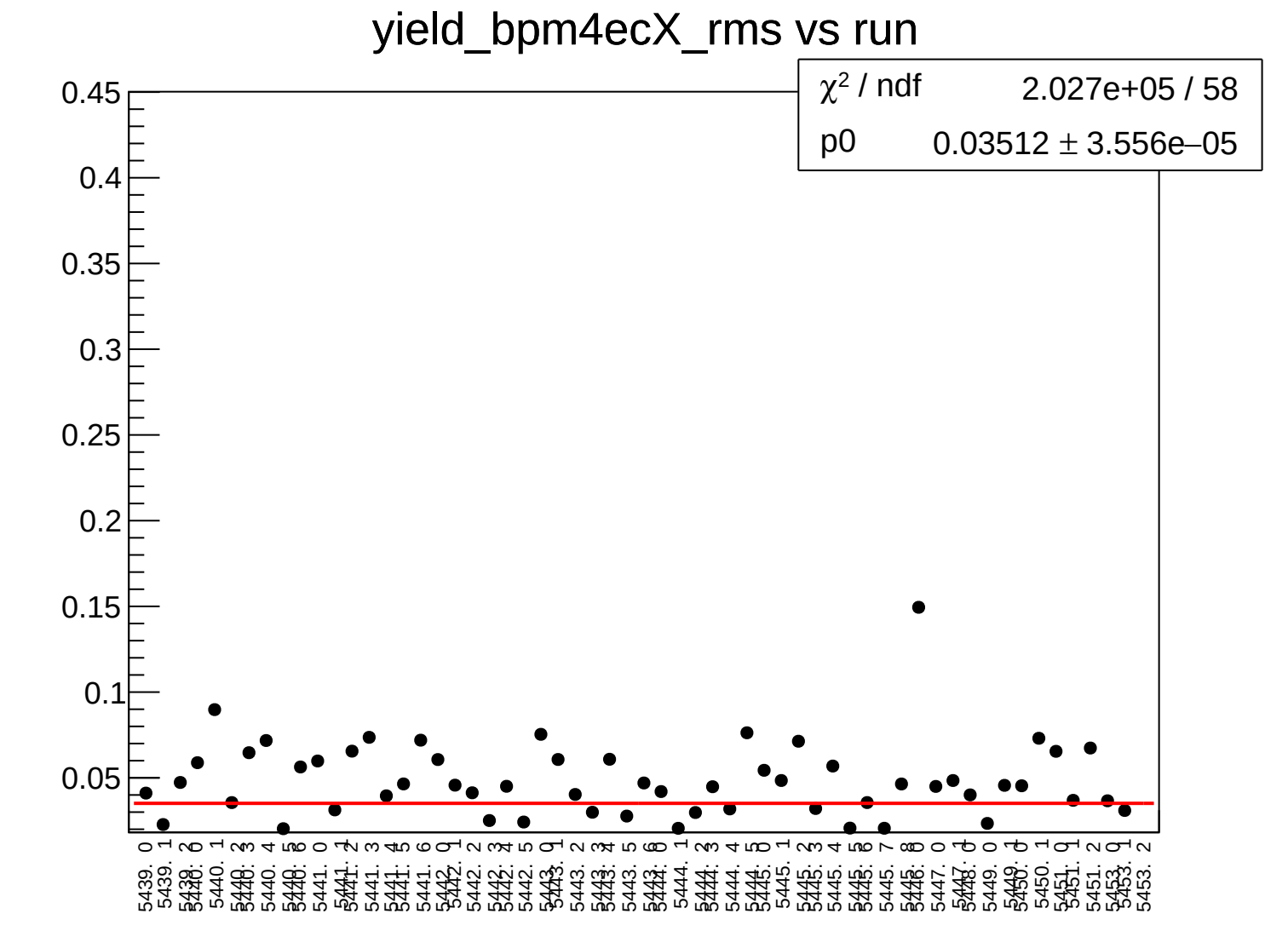

yield_bpm4acX_rms vs run
χ² / ndf 1.923e+05 / 58
p0 0.03306 ± 3.33e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

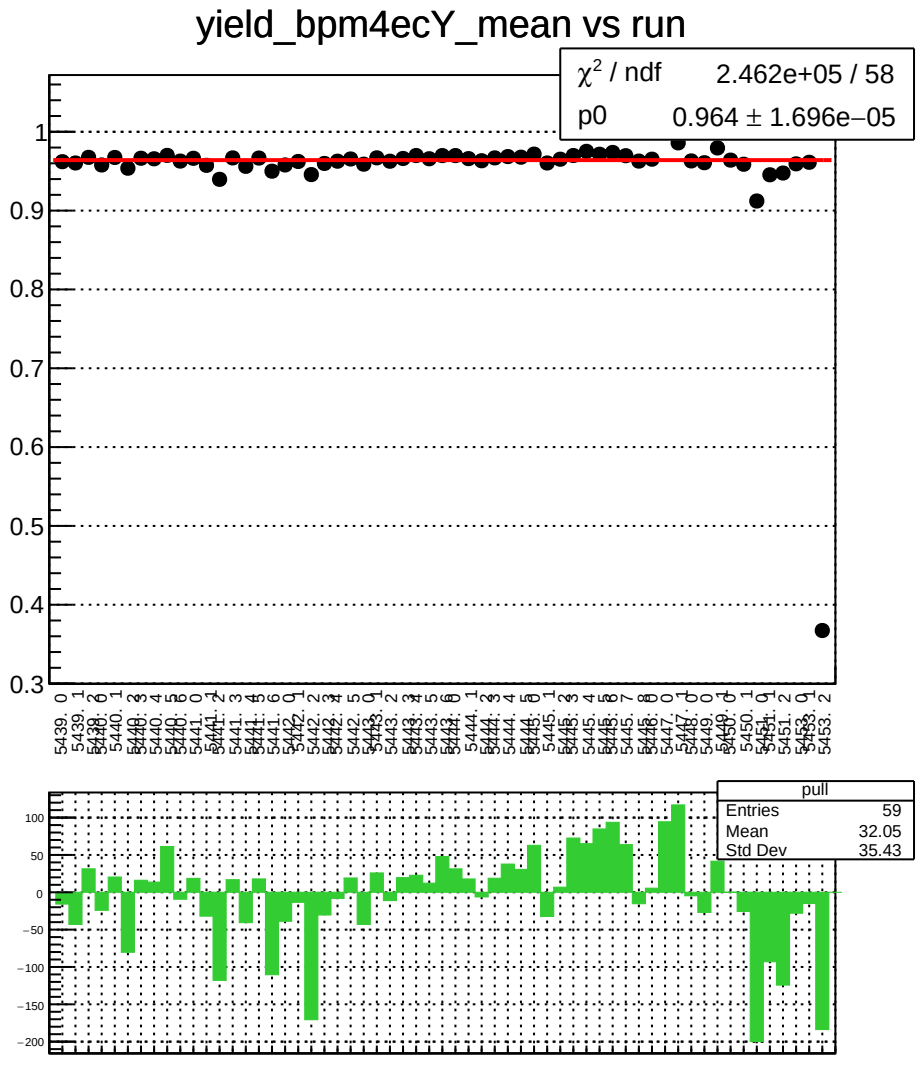

yield_bpm4acY_mean vs run
χ² / ndf 5.358e+06 / 58
p0 1.549 ± 2.187e−05
pull
Entries 59
Mean 287.3
Std Dev 254.4

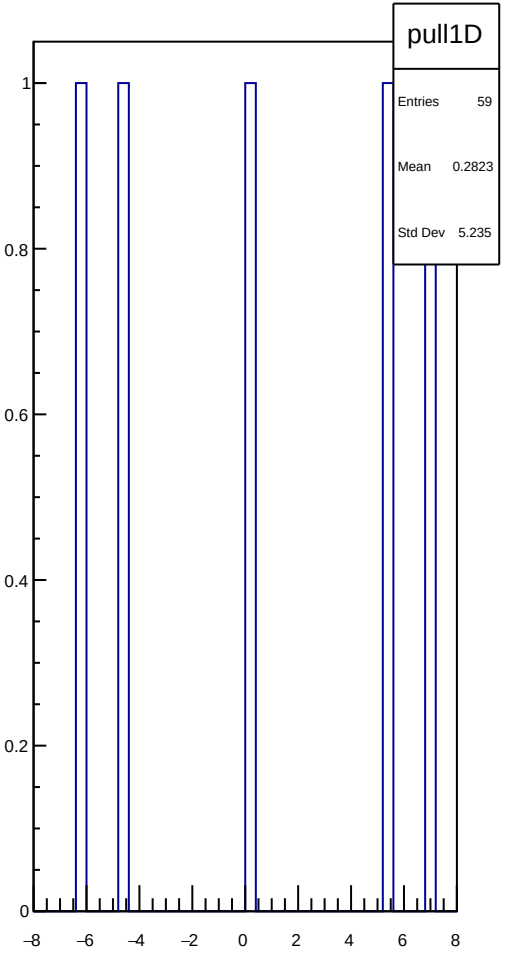

pull1D
Entries 59
Mean 0
Std Dev 0

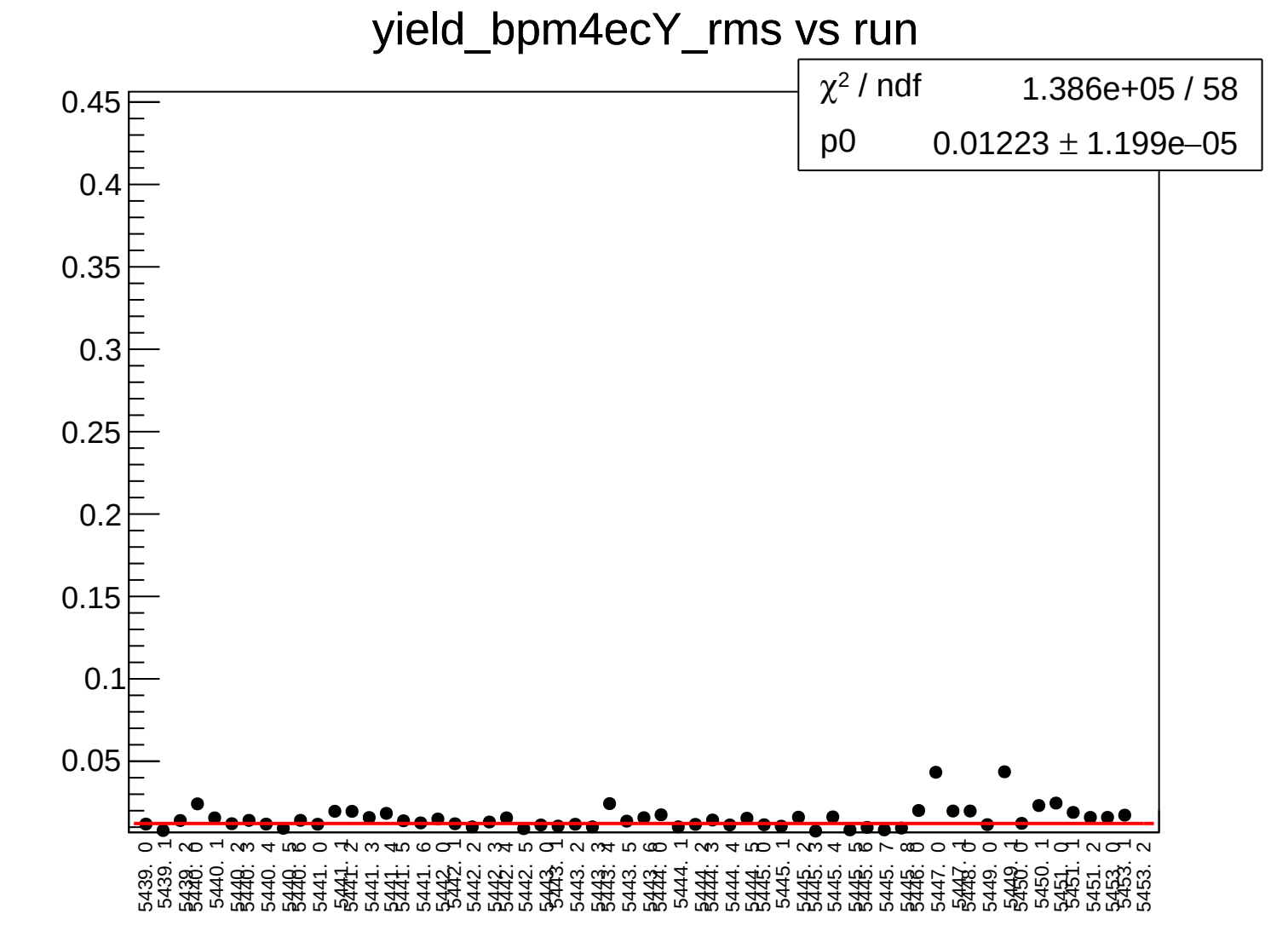

yield_bpm4acY_rms vs run
χ² / ndf 1.043e+05 / 58
p0 0.01602 ± 1.546e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

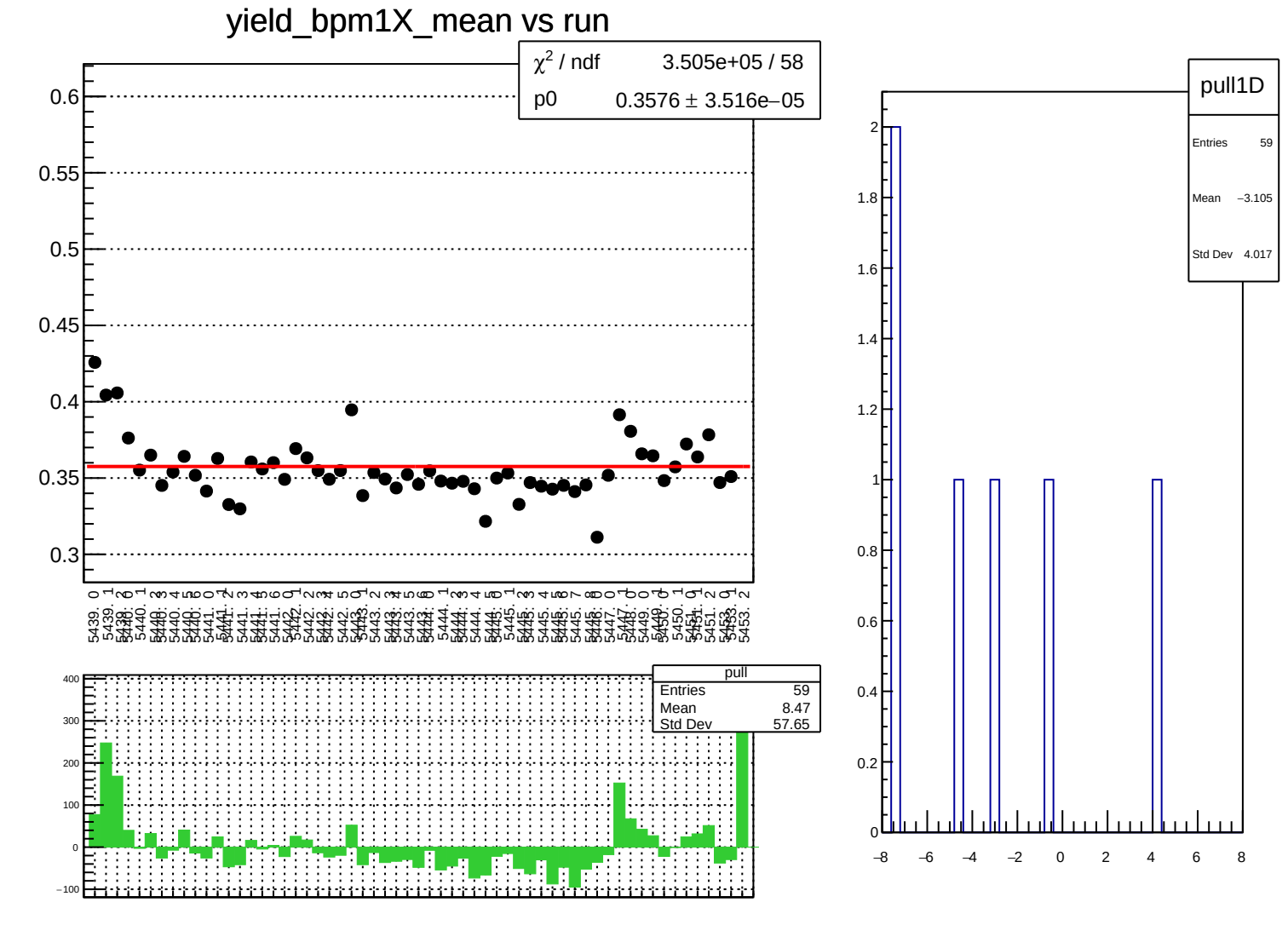

yield_bpm4ecX_mean vs run
χ² / ndf 2.714e+05 / 58
p0 −0.2382 ± 5.029e−05
pull
Entries 59
Mean 49.66
Std Dev 19.5
pull1D
Entries 59
Mean −0.1537
Std Dev 4.263

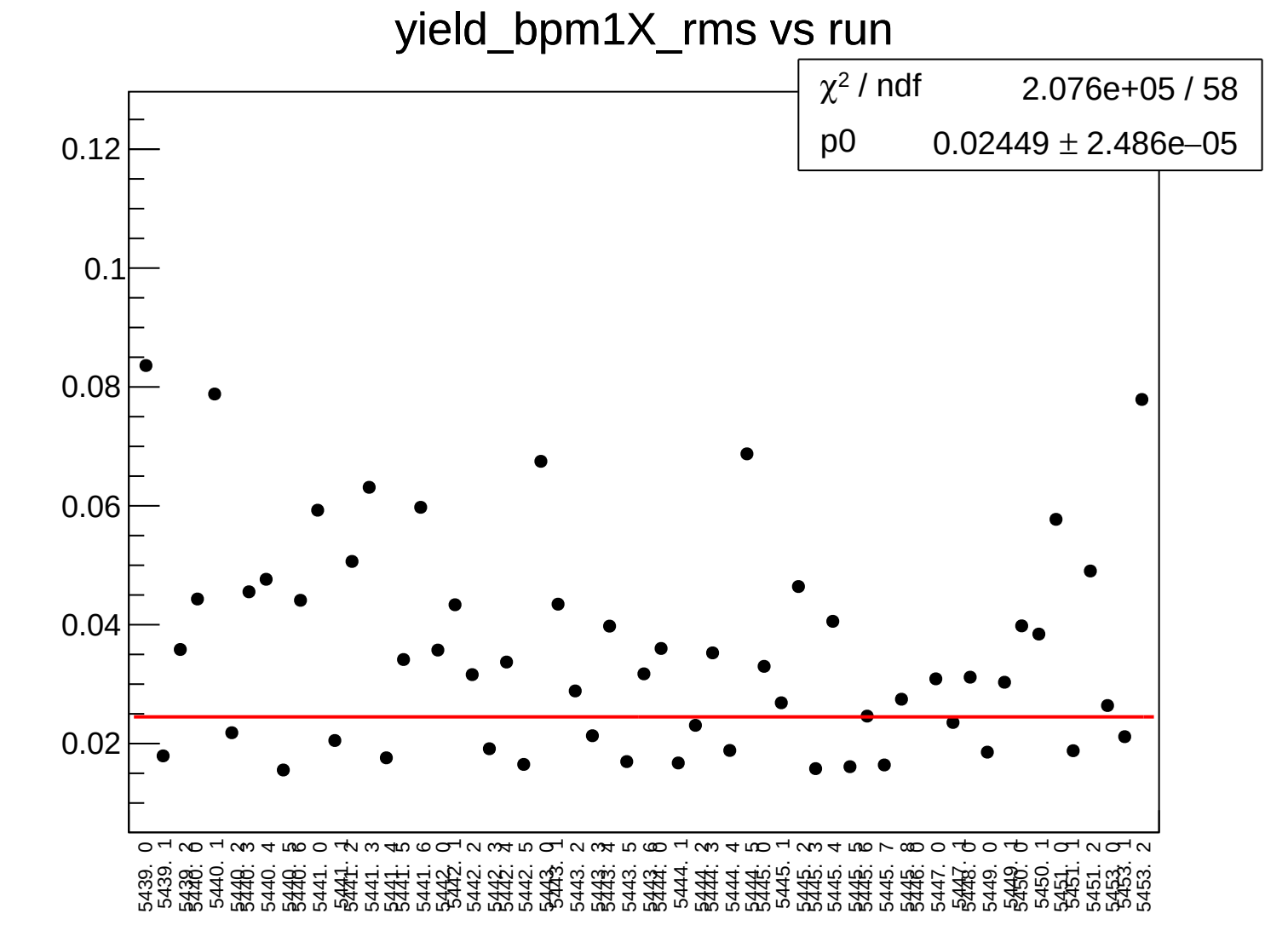

yield_bpm4ecX_rms vs run
χ² / ndf 2.027e+05 / 58
p0 0.03512 ± 3.556e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

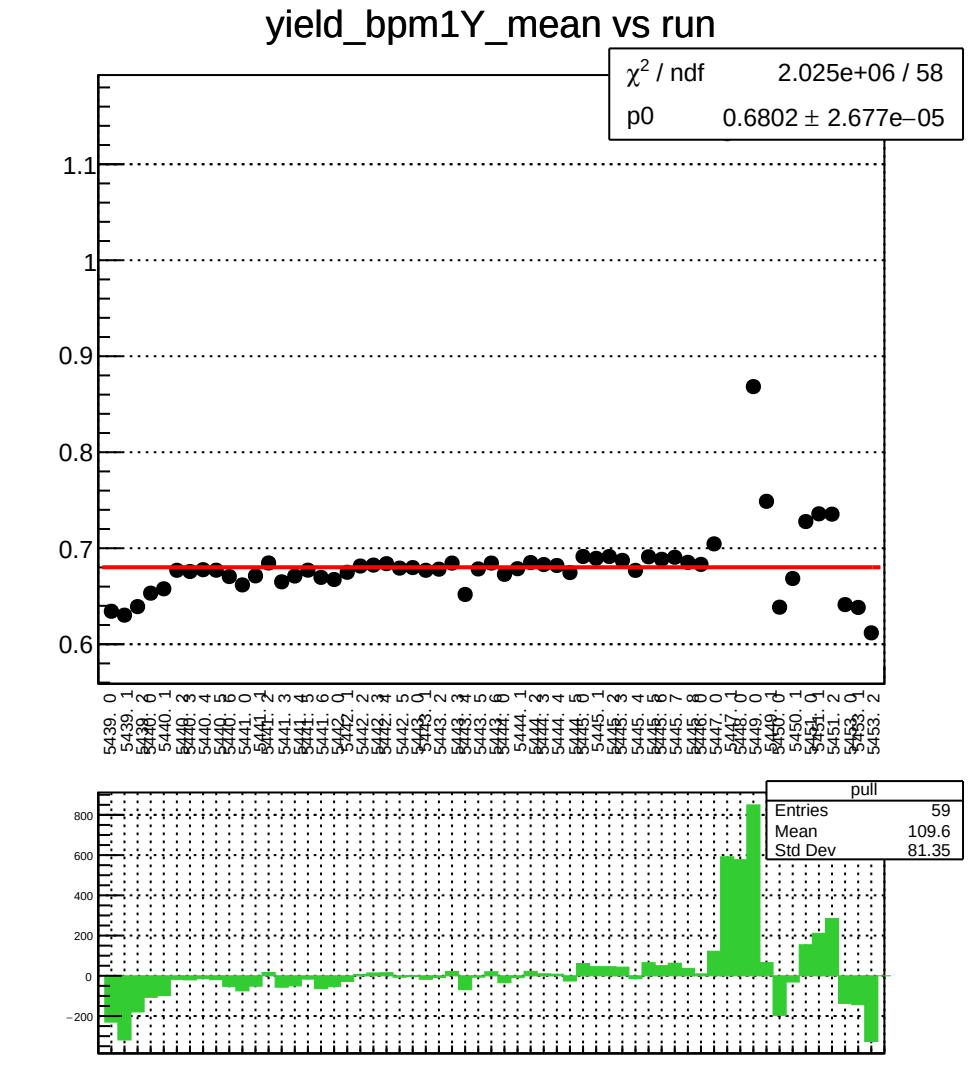

yield_bpm4ecY_mean vs run
χ² / ndf 2.462e+05 / 58
p0 0.964 ± 1.696e−05
pull
Entries 59
Mean 32.05
Std Dev 35.43

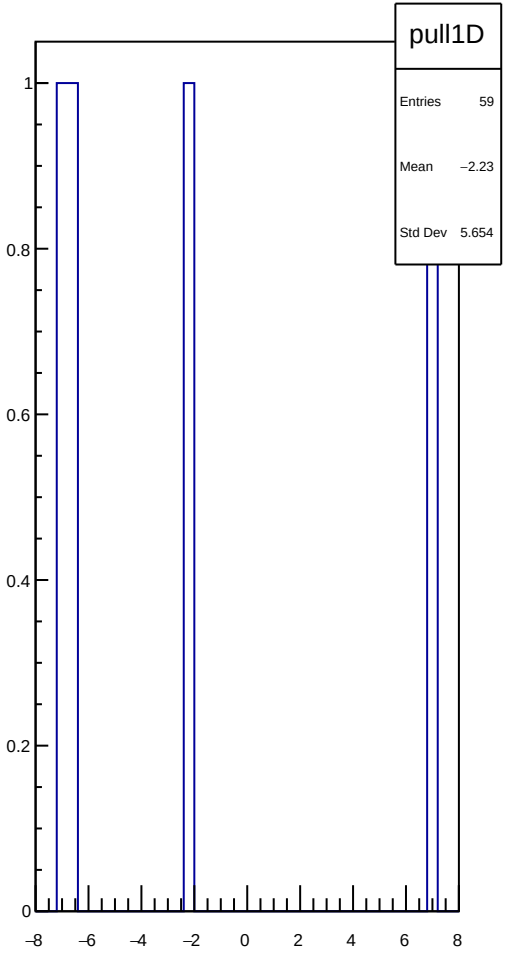

pull1D
Entries 59
Mean 0.2823
Std Dev 5.235

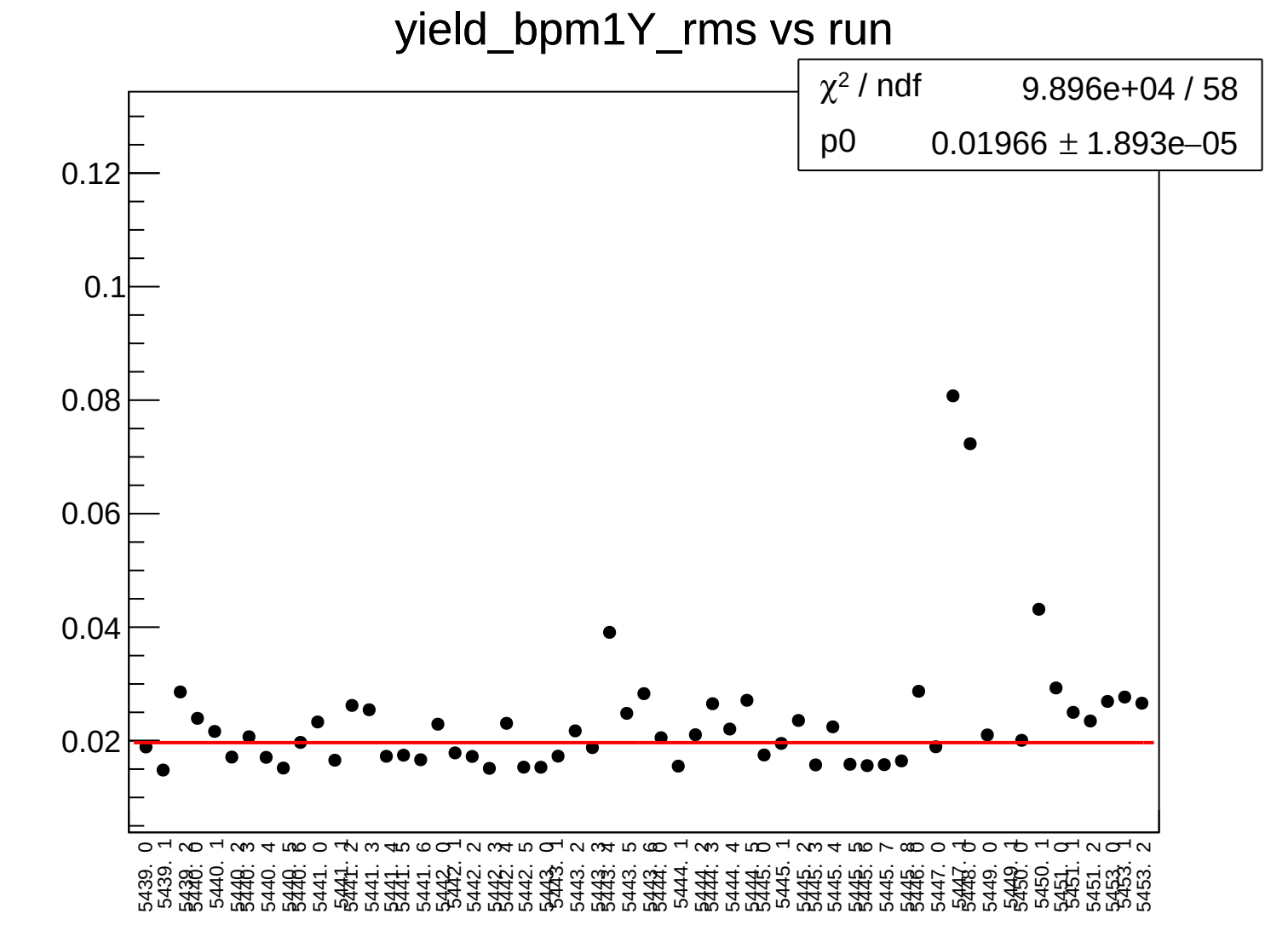

yield_bpm4ecY_rms vs run
χ² / ndf 1.386e+05 / 58
p0 0.01223 ± 1.199e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

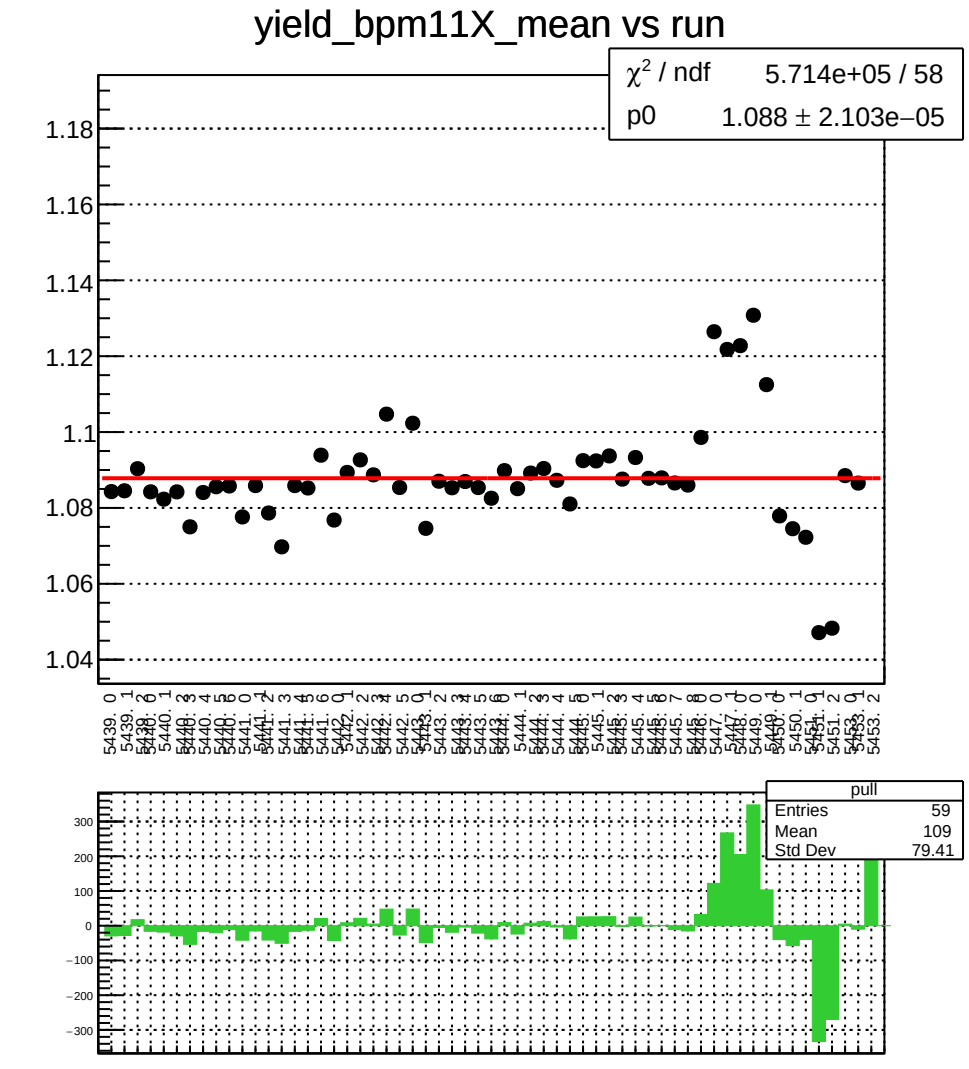

yield_bpm1X_mean vs run
χ² / ndf 3.505e+05 / 58
p0 0.3576 ± 3.516e−05
pull
Entries 59
Mean 8.47
Std Dev 57.65
pull1D
Entries 59
Mean −3.105
Std Dev 4.017

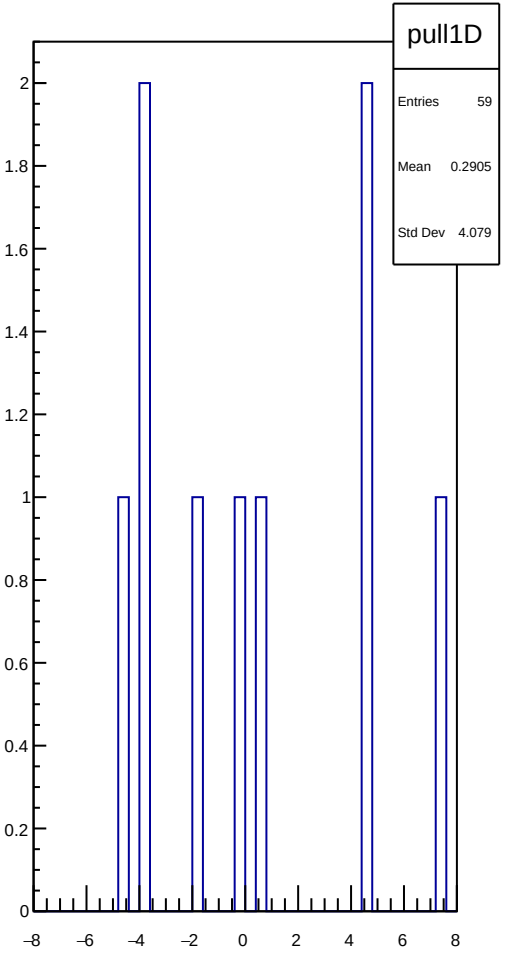

yield_bpm1X_rms vs run
χ² / ndf 2.076e+05 / 58
p0 0.02449 ± 2.486e–05
0.12
0.1
0.08
0.06
0.04
0.02

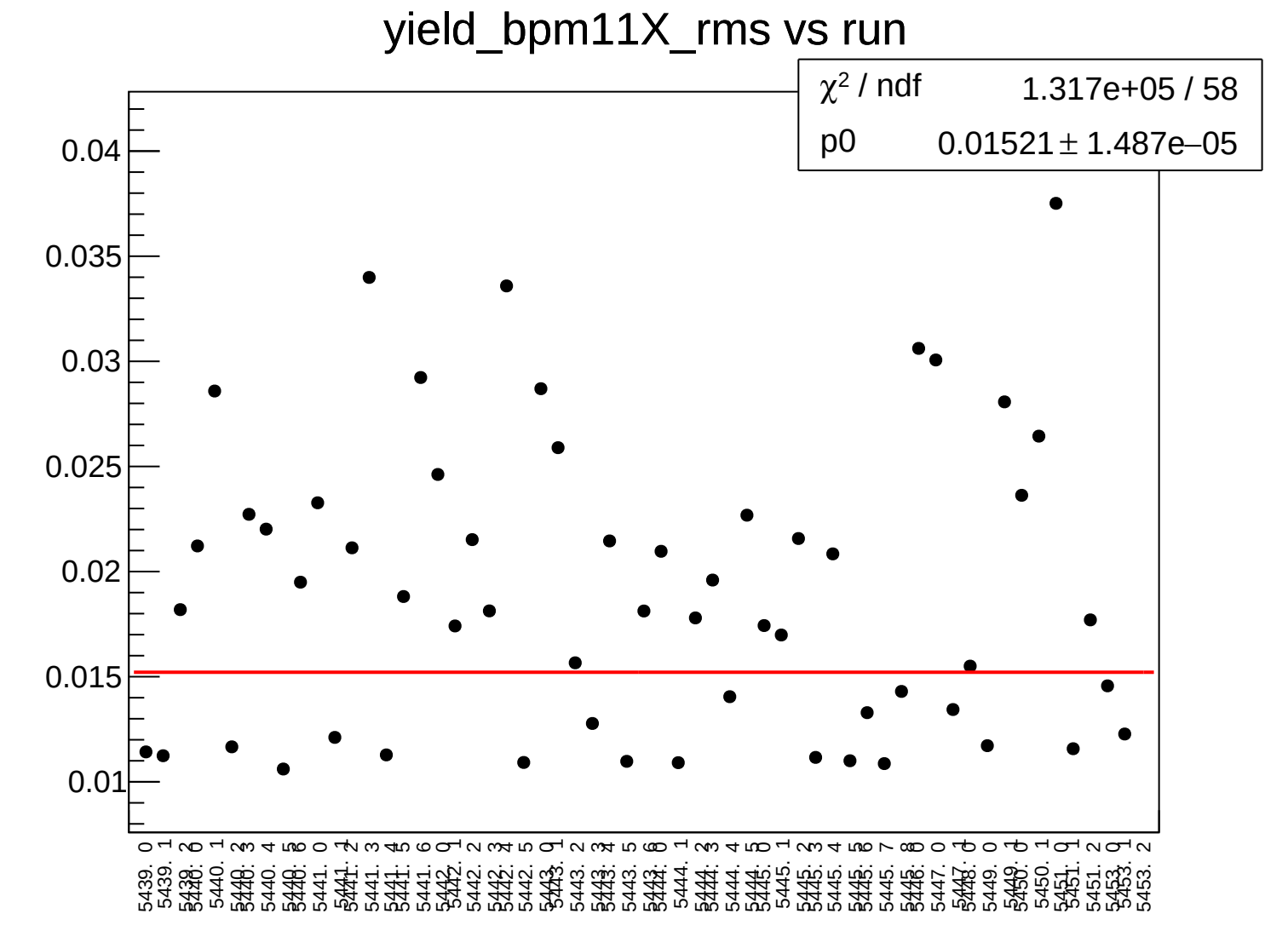

yield_bpm1Y_mean vs run
χ² / ndf 2.025e+06 / 58
p0 0.6802 ± 2.677e−05
1.1
1
0.9
0.8
0.7
0.6
pull
Entries 59
Mean 109.6
Std Dev 81.35
800
600
400
200
0
−200

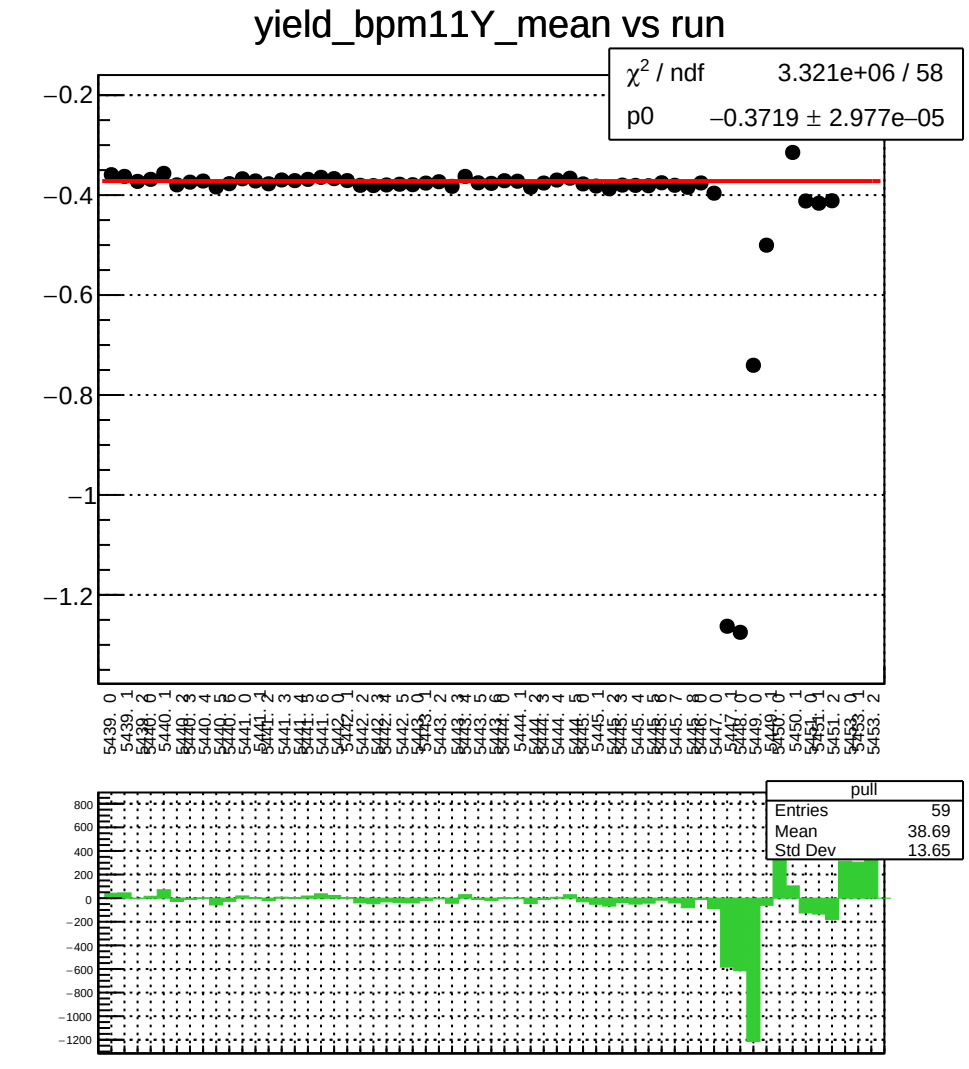

pull1D
Entries 59
Mean −2.23
Std Dev 5.654
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

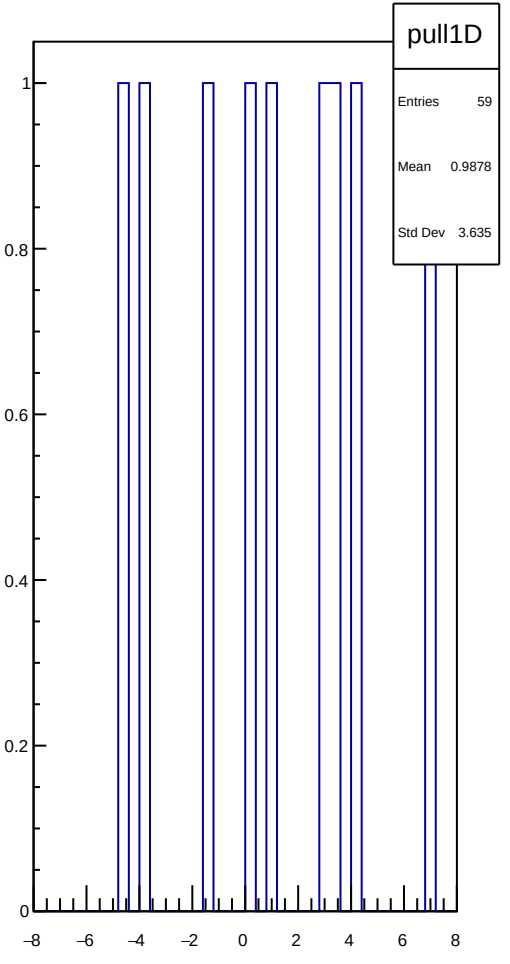

yield_bpm1Y_rms vs run
χ² / ndf 9.896e+04 / 58
p0 0.01966 ± 1.893e–05
0.12
0.1
0.08
0.06
0.04
0.02

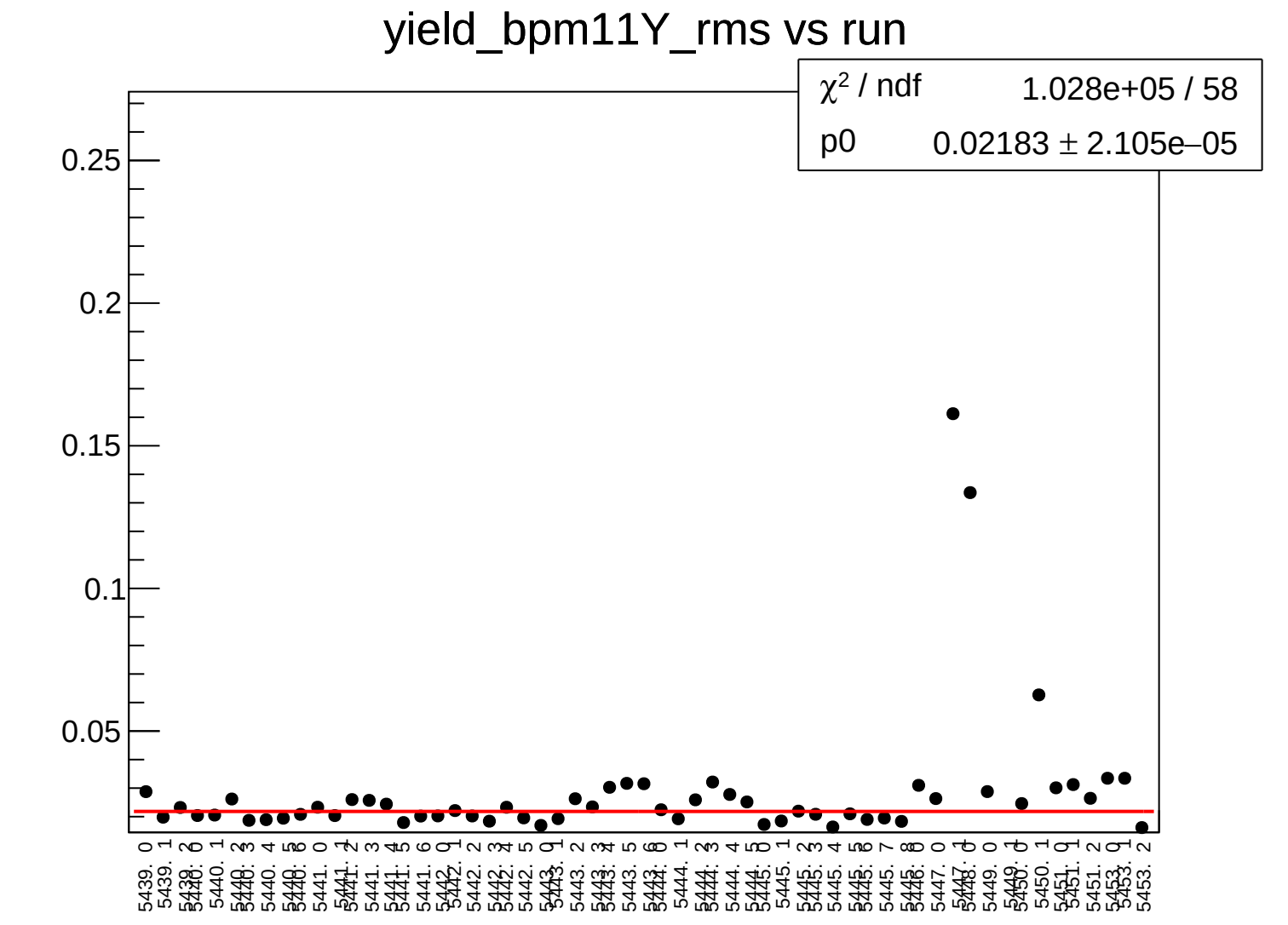

yield_bpm11X_mean vs run
χ² / ndf 5.714e+05 / 58
p0 1.088 ± 2.103e−05
1.18
1.16
1.14
1.12
1.1
1.08
1.06
1.04
pull
Entries 59
Mean 109
Std Dev 79.41
300
200
100
0
−100
−200
−300

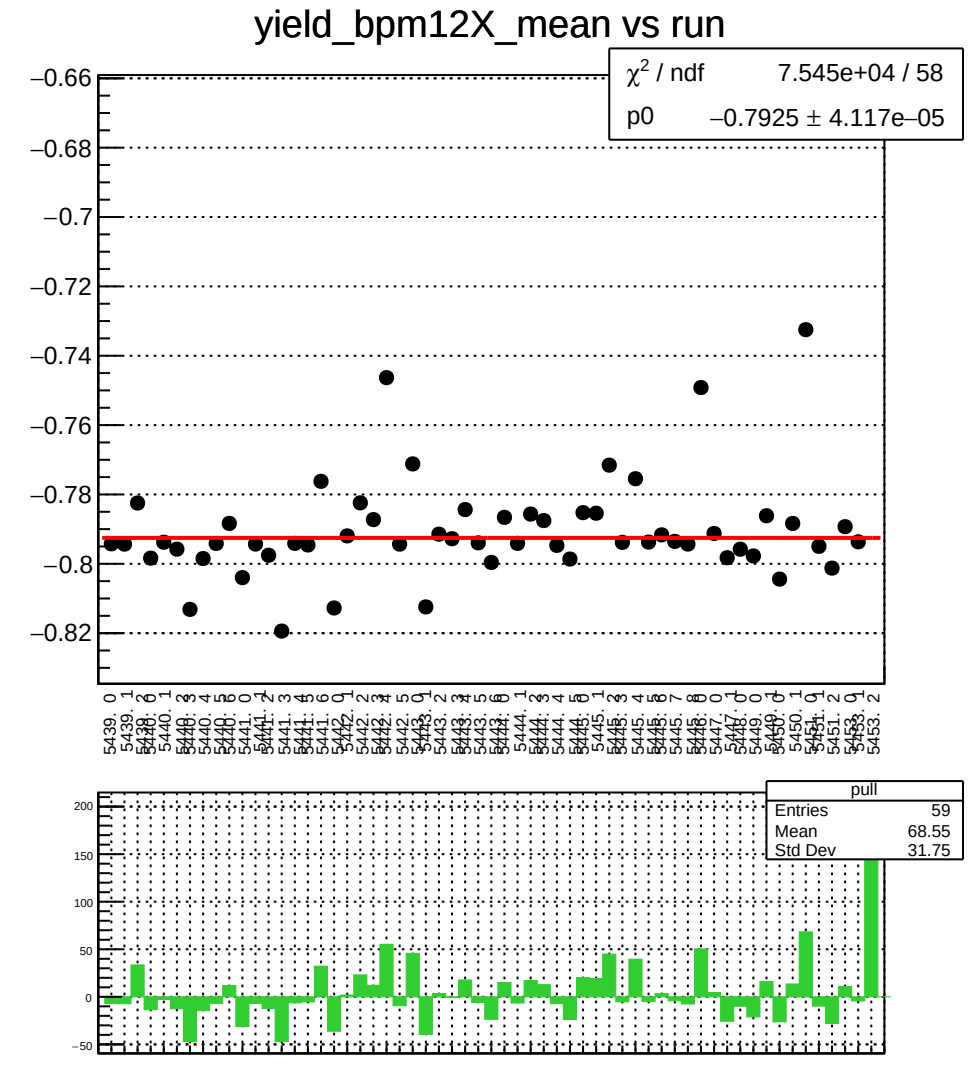

pull1D
Entries 59
Mean 0.2905
Std Dev 4.079
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

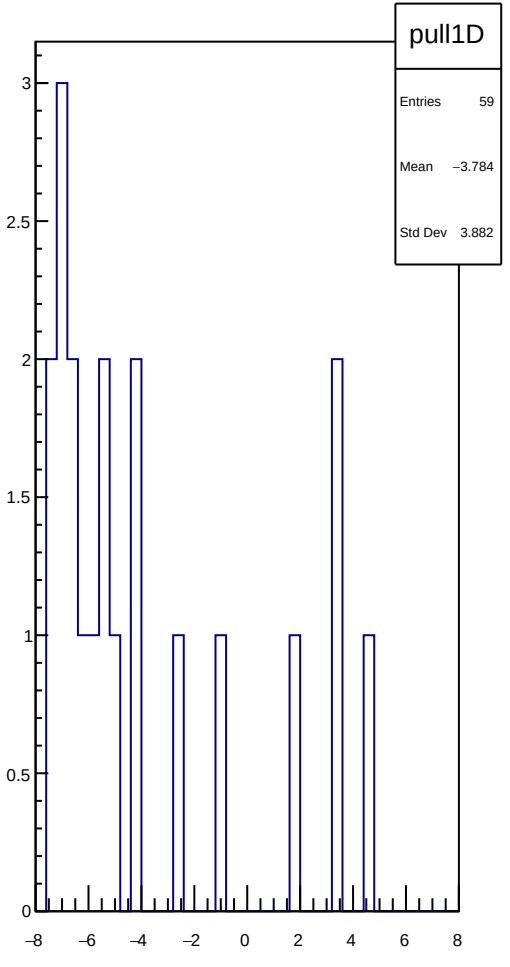

yield_bpm11X_rms vs run
χ² / ndf 1.317e+05 / 58
p0 0.01521 ± 1.487e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

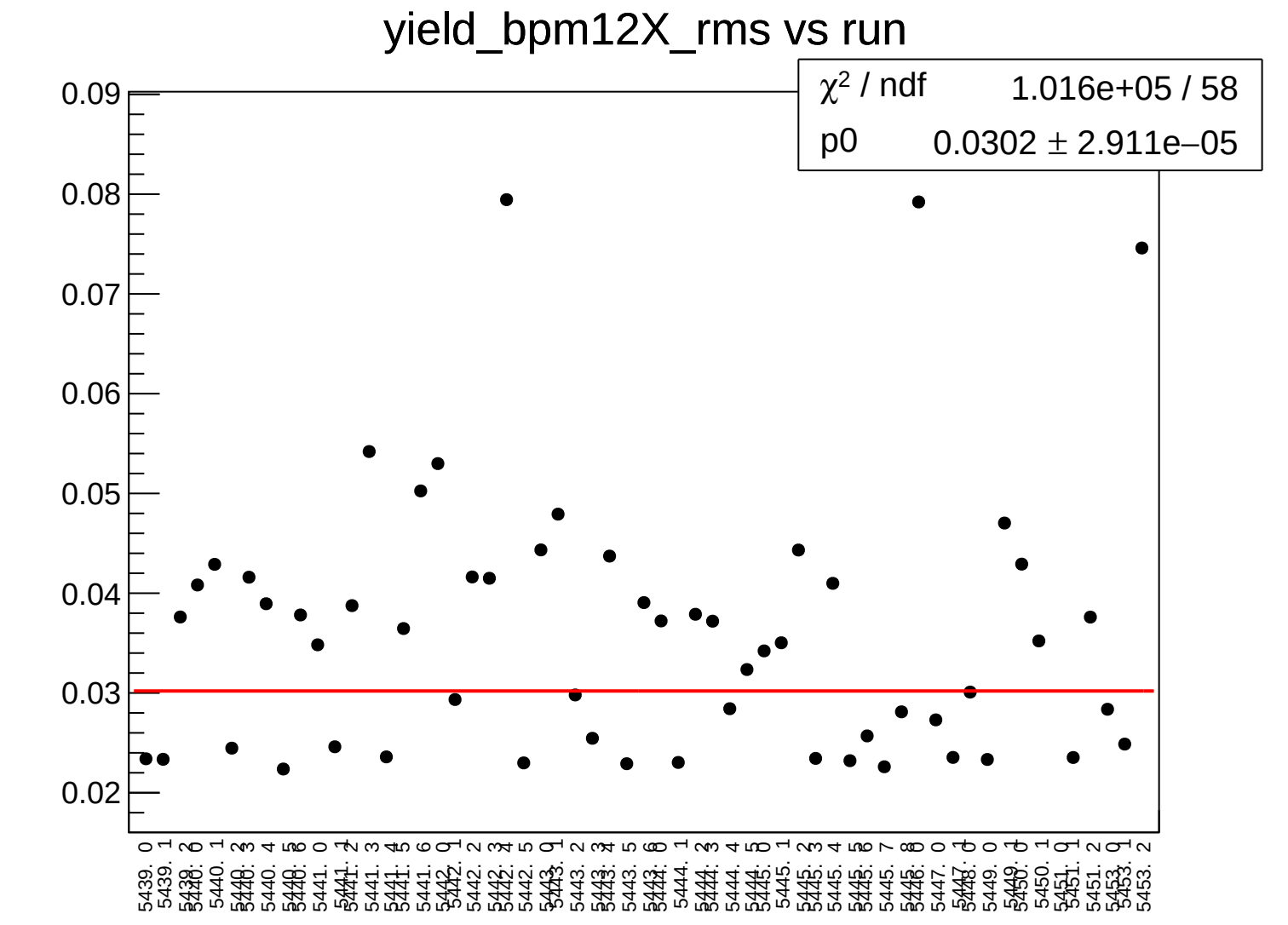

yield_bpm11Y_mean vs run
χ² / ndf 3.321e+06 / 58
p0 −0.3719 ± 2.977e−05
−0.2
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 59
Mean 38.69
Std Dev 13.65
800
600
400
200
0
−200
−400
−600
−800
−1000
−1200

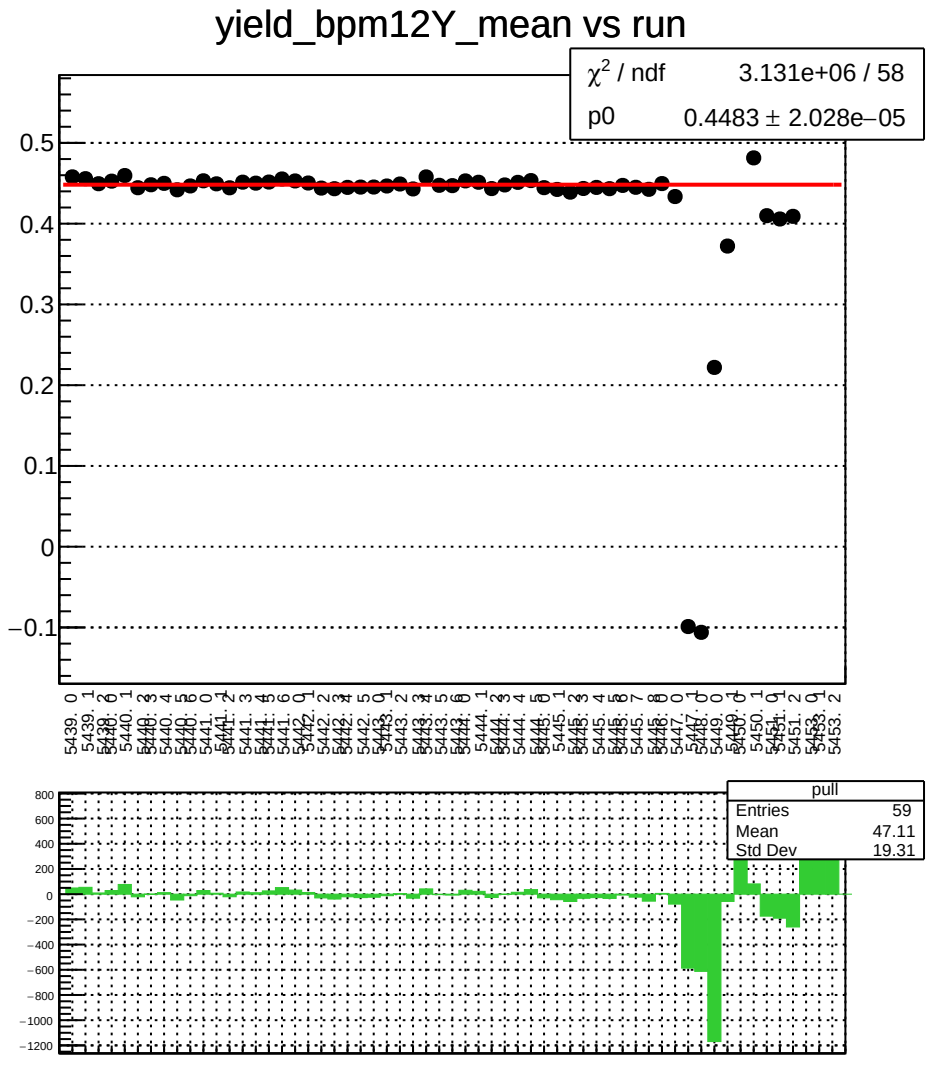

pull1D
Entries 59
Mean 0.9878
Std Dev 3.635
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

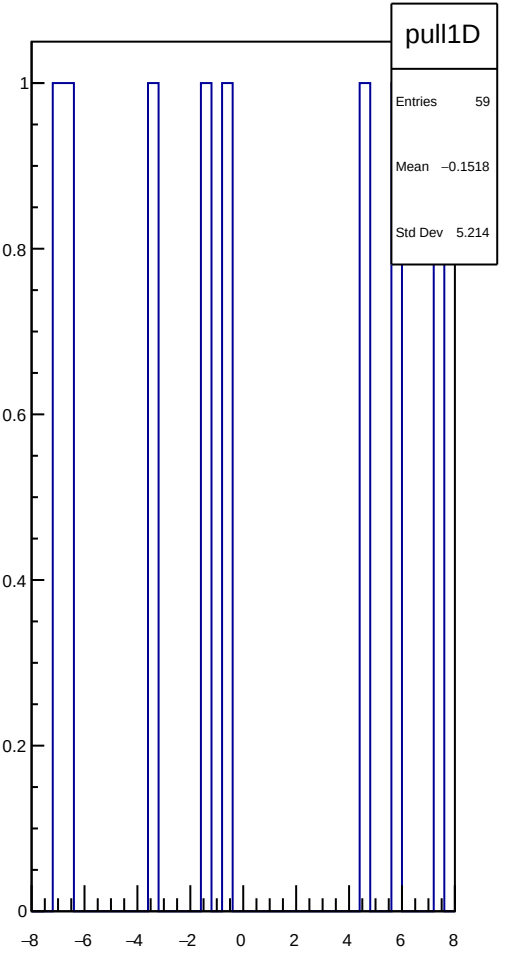

yield_bpm11Y_rms vs run
χ² / ndf 1.028e+05 / 58
p0 0.02183 ± 2.105e–05
0.25
0.2
0.15
0.1
0.05

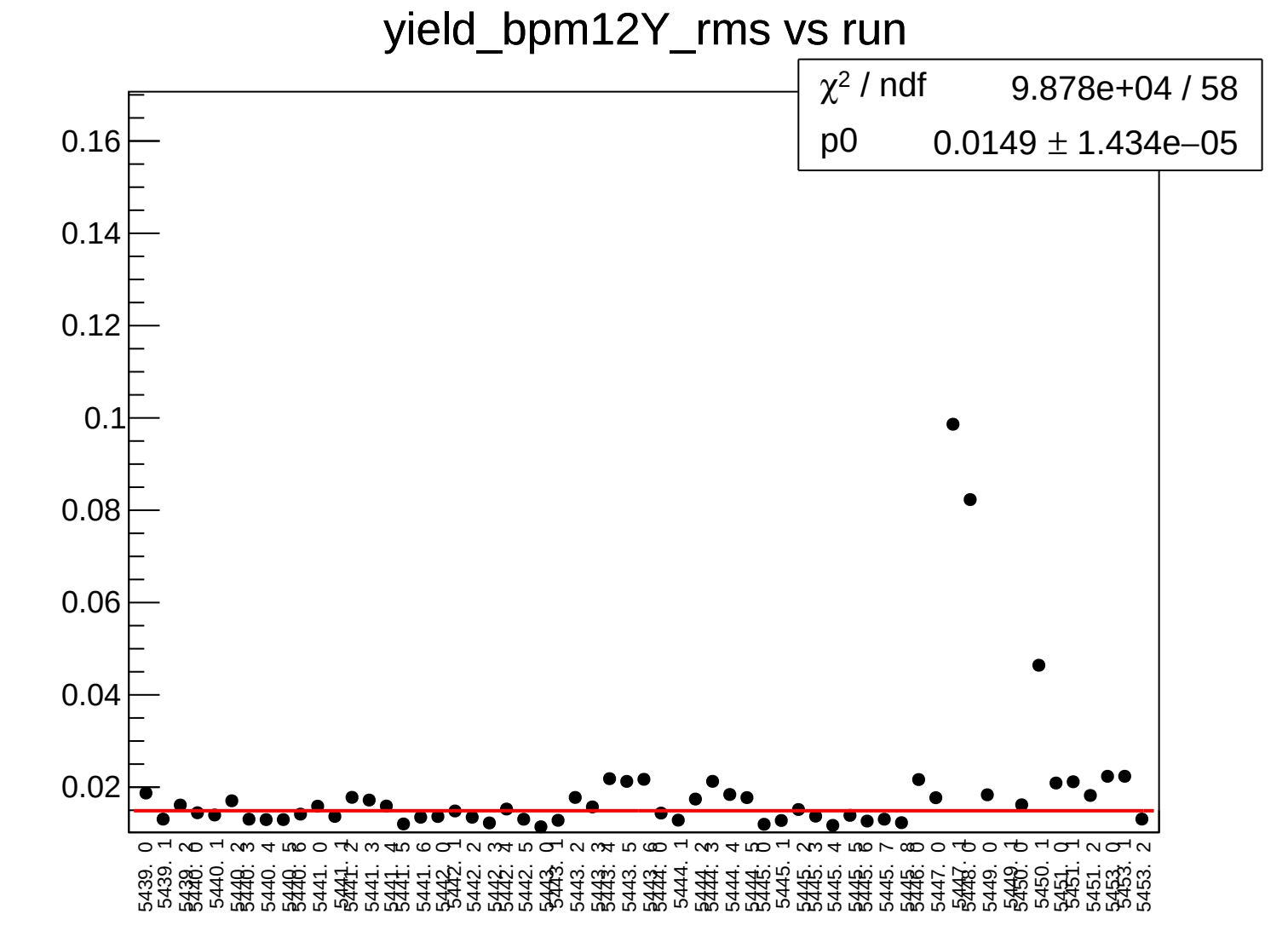

yield_bpm12X_mean vs run
χ² / ndf 7.545e+04 / 58
p0 −0.7925 ± 4.117e−05
pull
Entries 59
Mean 68.55
Std Dev 31.75

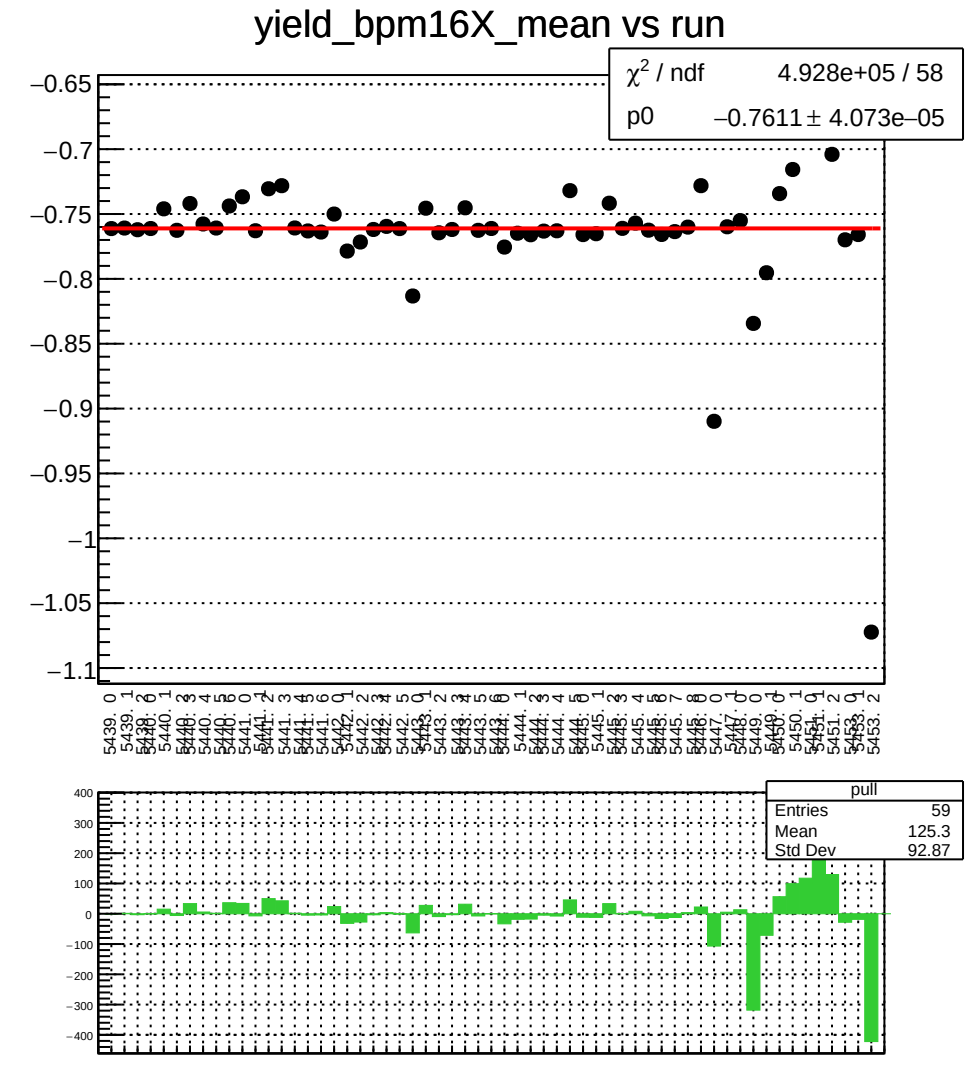

pull1D
Entries 59
Mean −3.784
Std Dev 3.882

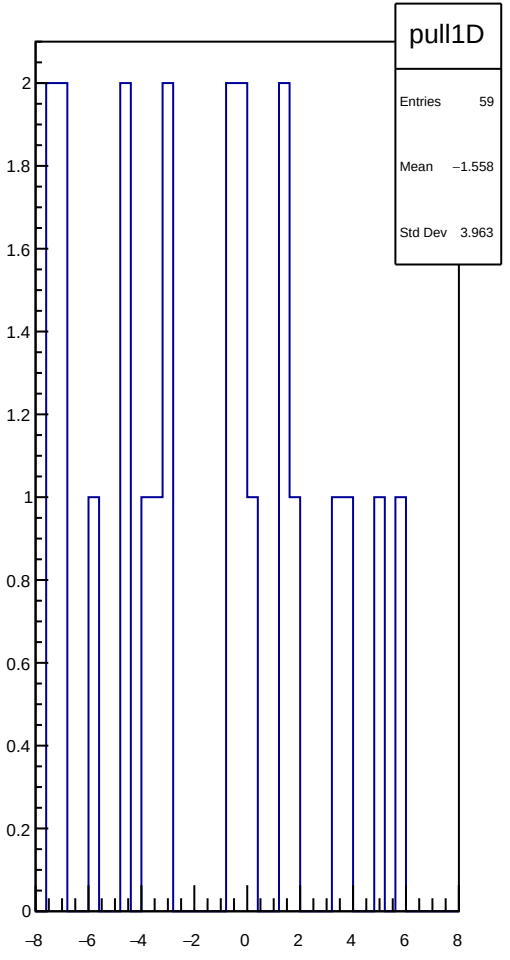

yield_bpm12X_rms vs run
χ² / ndf 1.016e+05 / 58
p0 0.0302 ± 2.911e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02

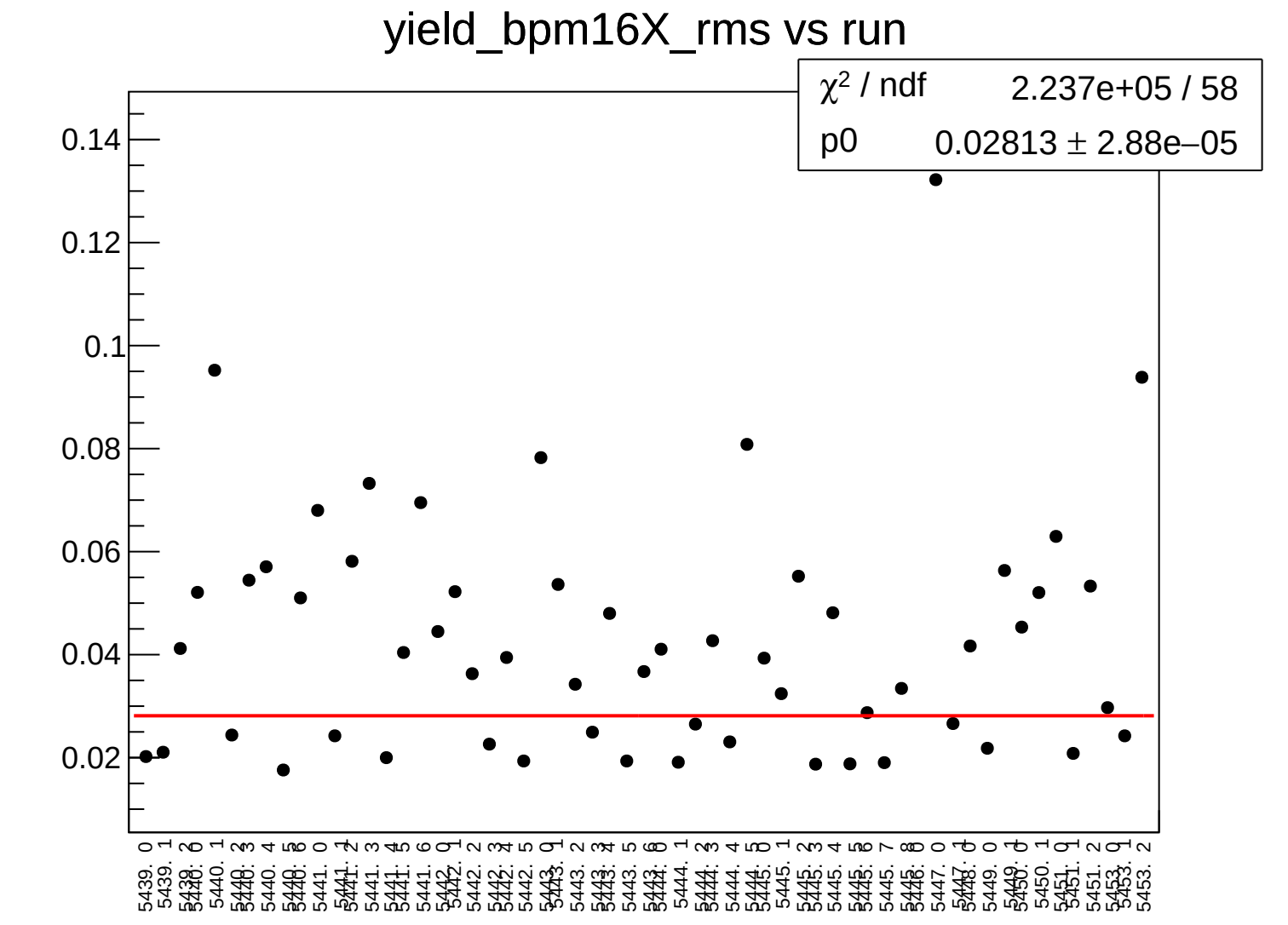

yield_bpm12Y_mean vs run
χ² / ndf 3.131e+06 / 58
p0 0.4483 ± 2.028e−05
pull
Entries 59
Mean 47.11
Std Dev 19.31

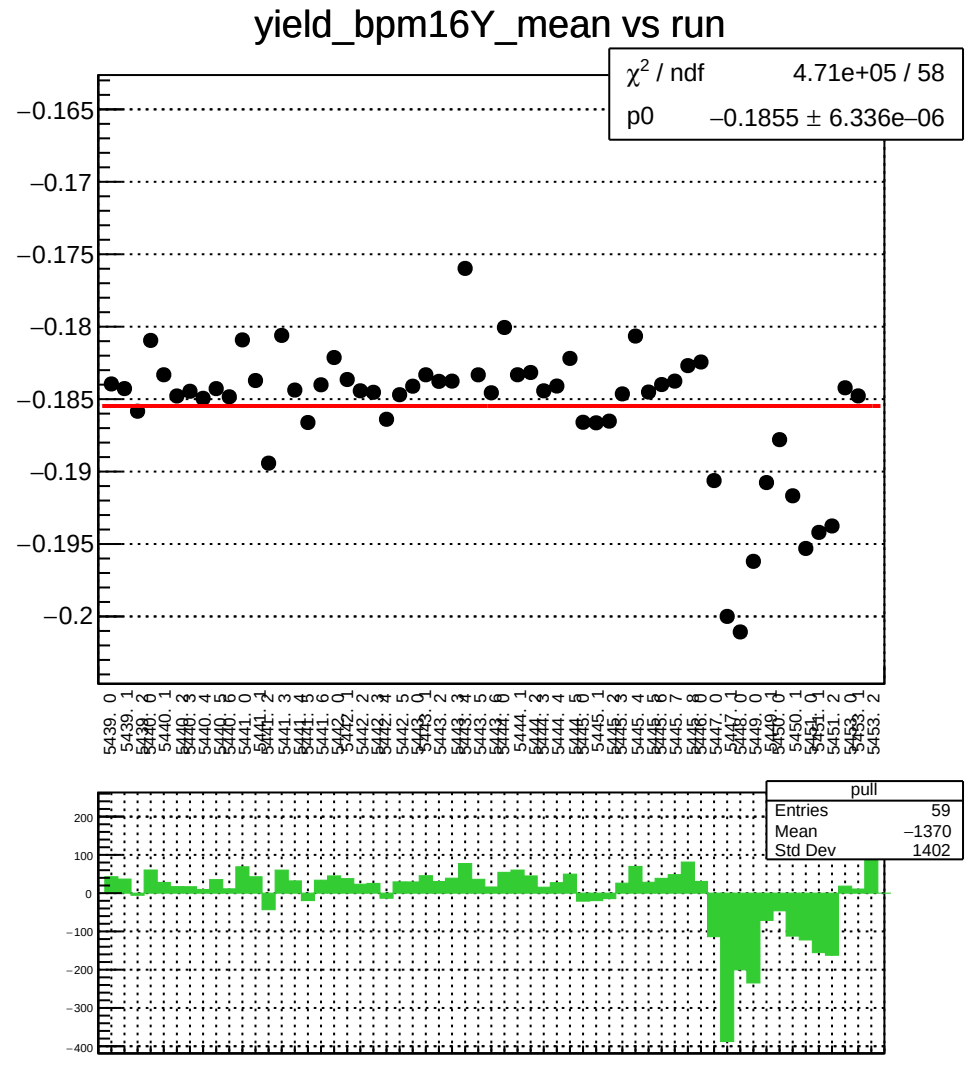

pull1D
Entries 59
Mean −0.1518
Std Dev 5.214

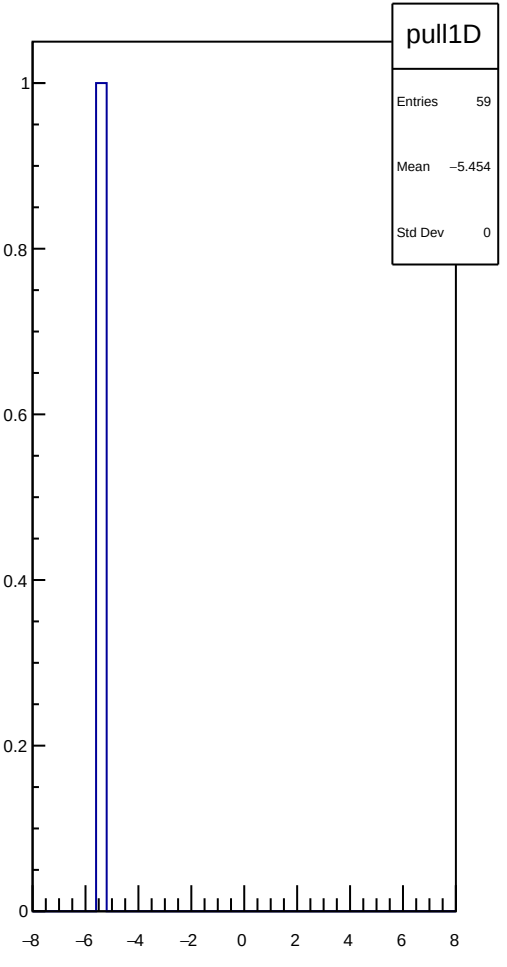

yield_bpm12Y_rms vs run
χ² / ndf 9.878e+04 / 58
p0 0.0149 ± 1.434e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

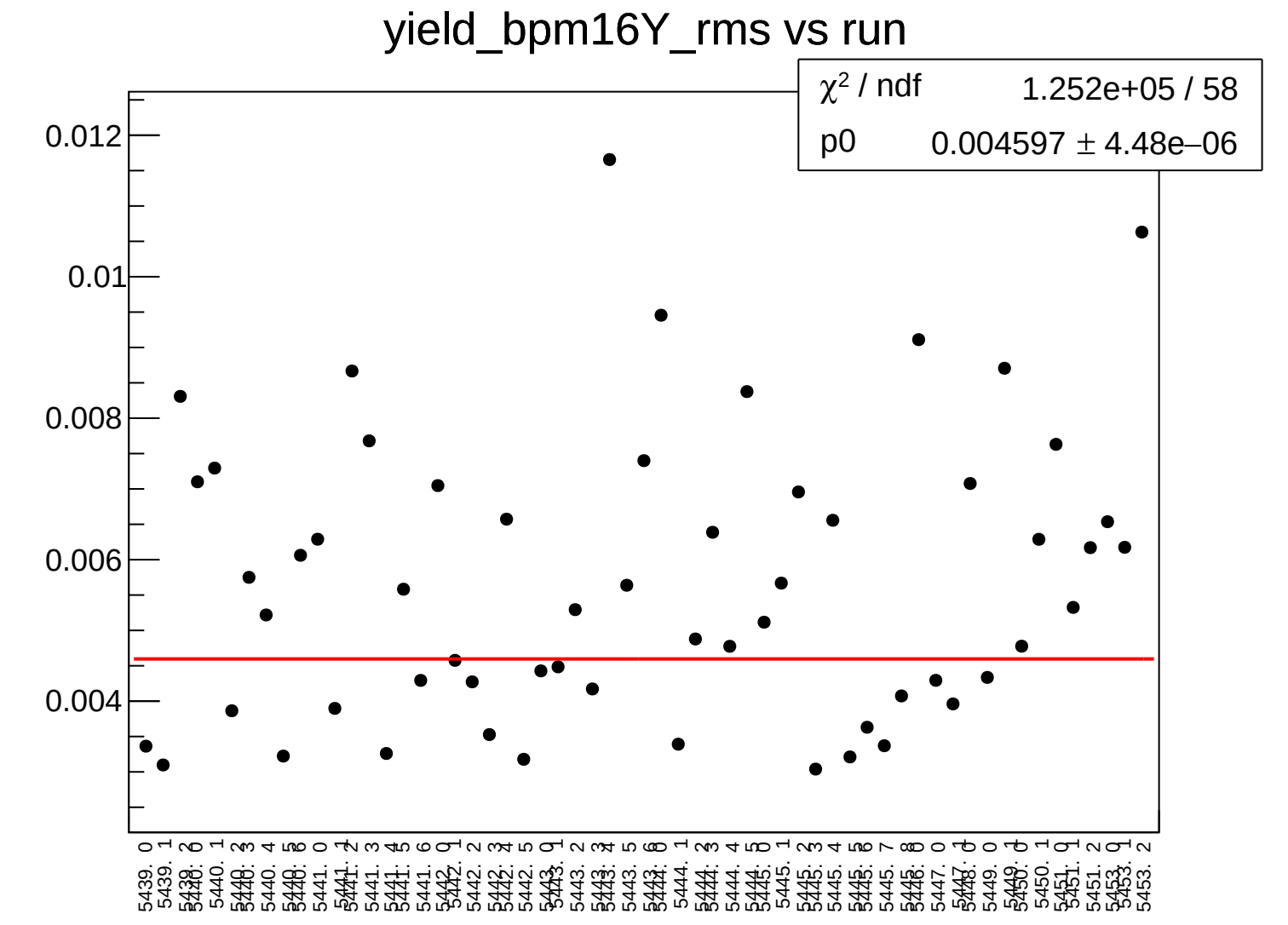

yield_bpm16X_mean vs run
χ² / ndf 4.928e+05 / 58
p0 −0.7611 ± 4.073e−05
pull
Entries 59
Mean 125.3
Std Dev 92.87

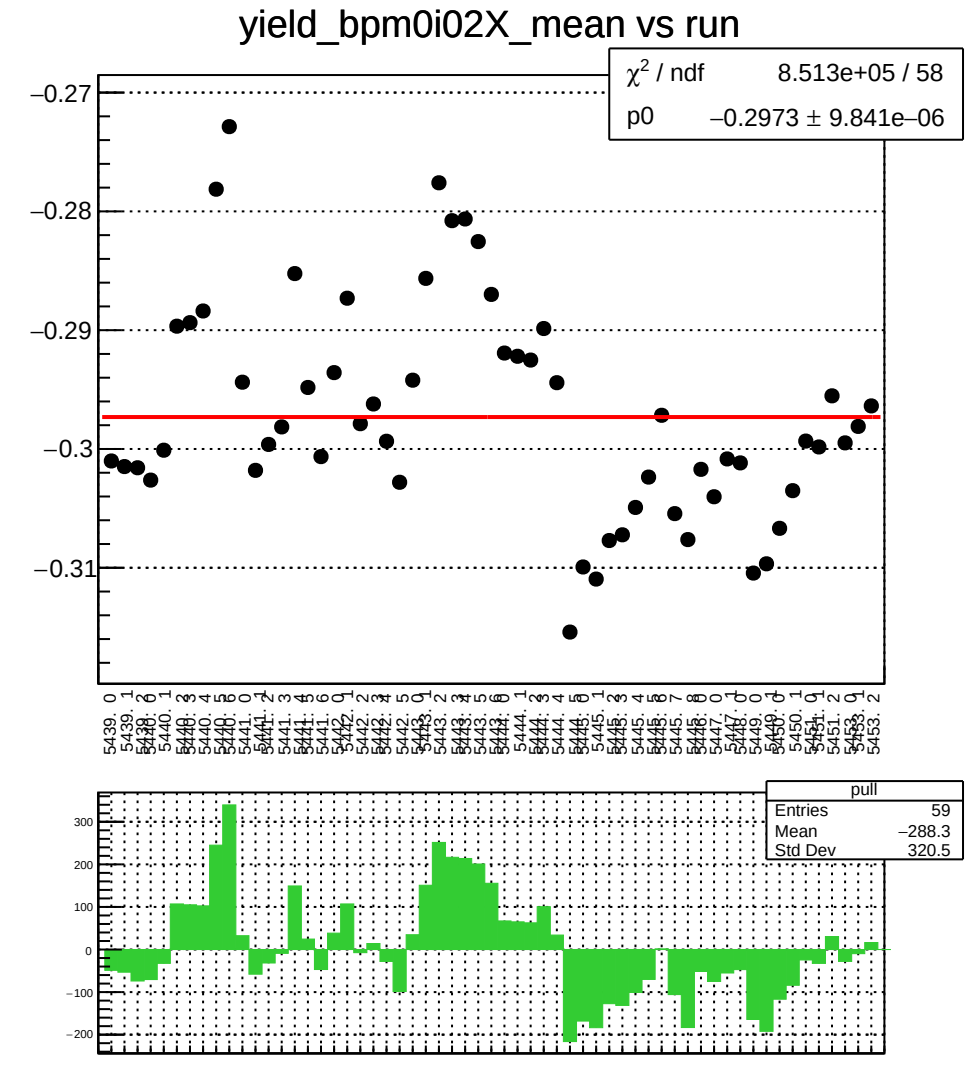

pull1D
Entries 59
Mean −1.558
Std Dev 3.963

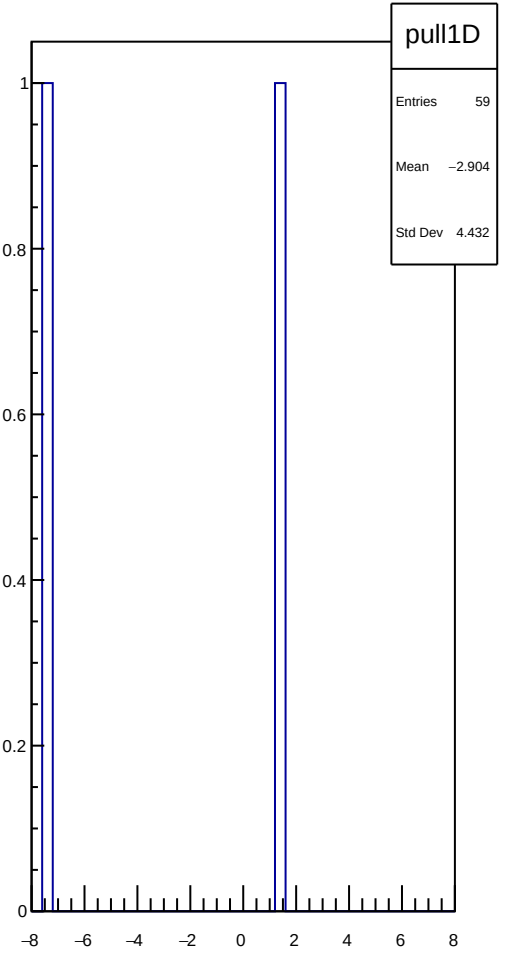

yield_bpm16X_rms vs run
χ² / ndf 2.237e+05 / 58
p0 0.02813 ± 2.88e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

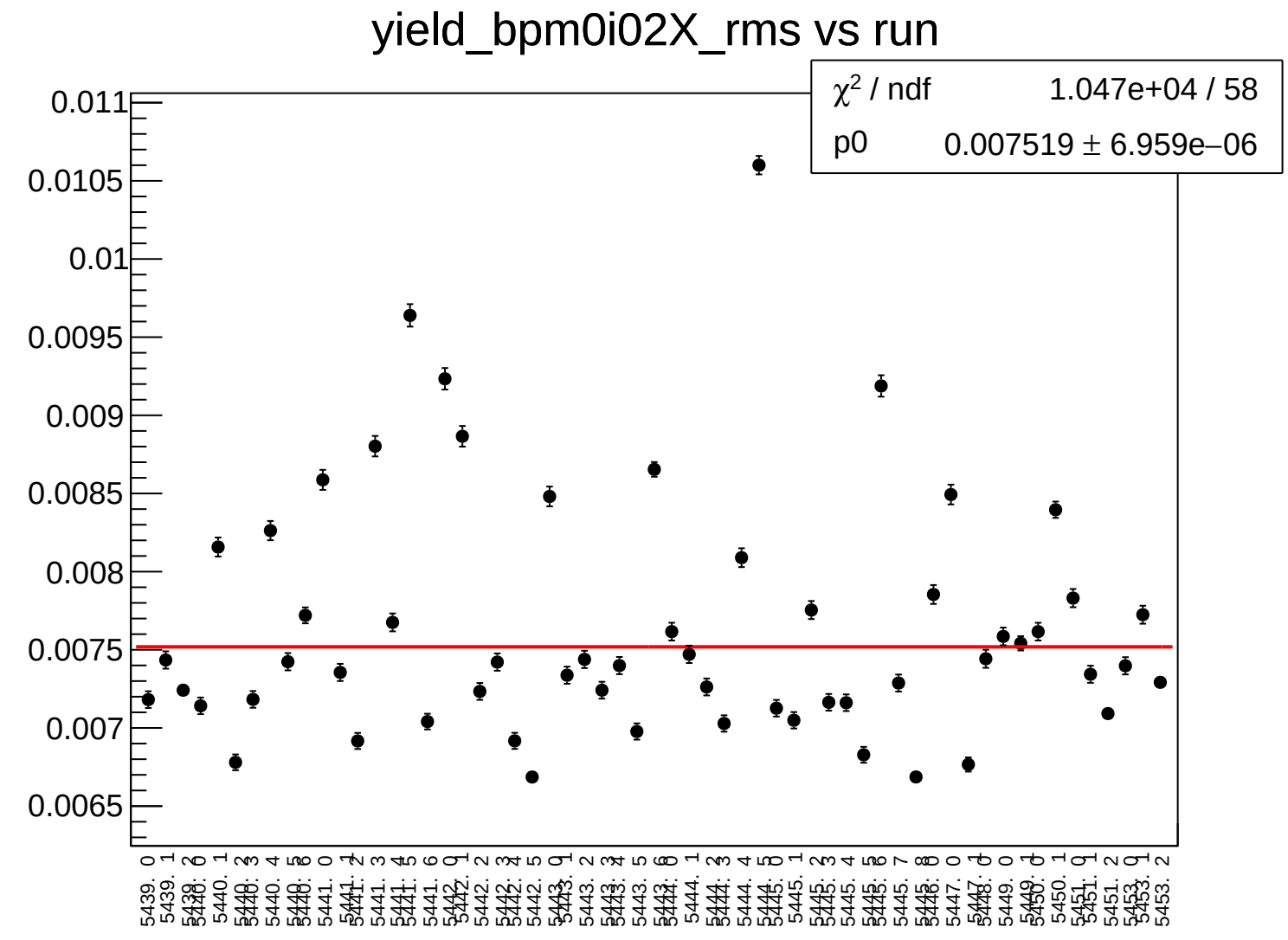

yield_bpm16Y_mean vs run
χ² / ndf 4.71e+05 / 58
p0 −0.1855 ± 6.336e−06
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
−0.2
pull
Entries 59
Mean −1370
Std Dev 1402
200
100
0
−100
−200
−300
−400

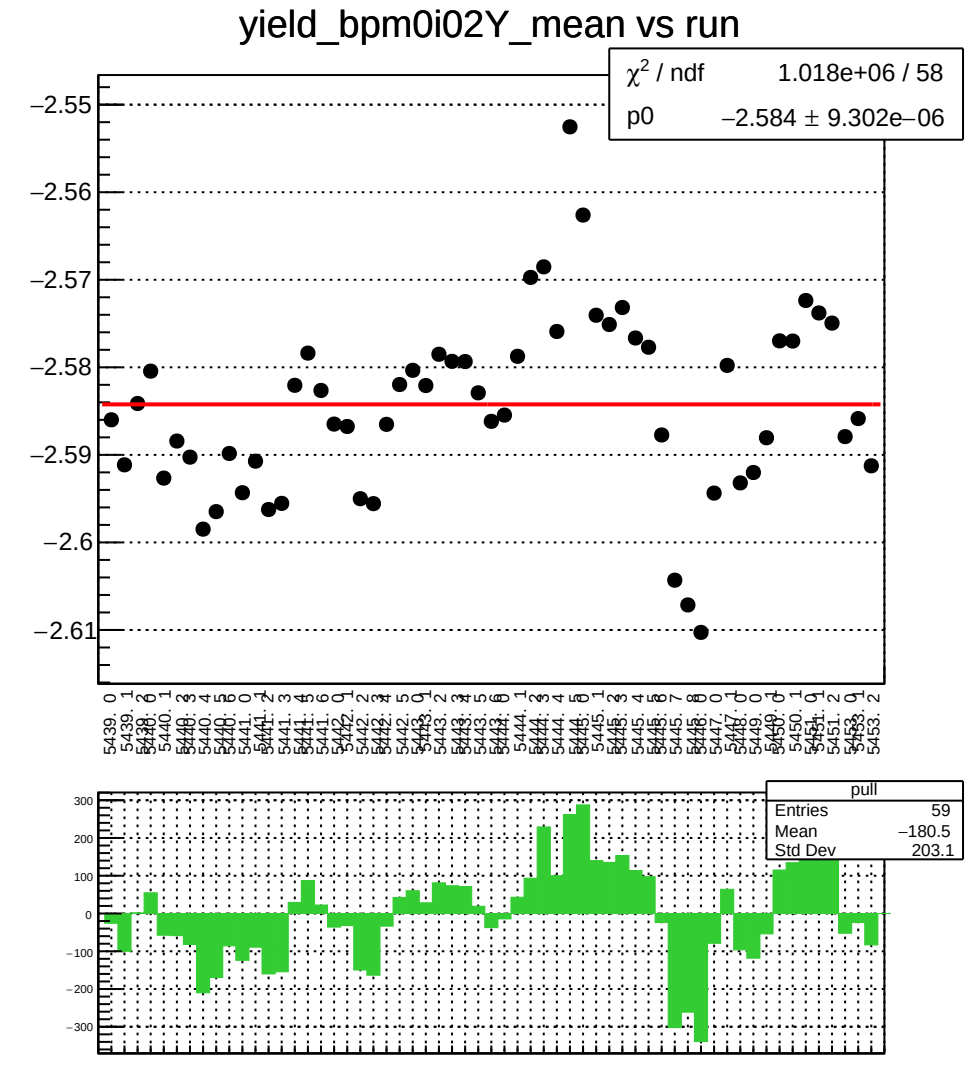

pull1D
Entries 59
Mean −5.454
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

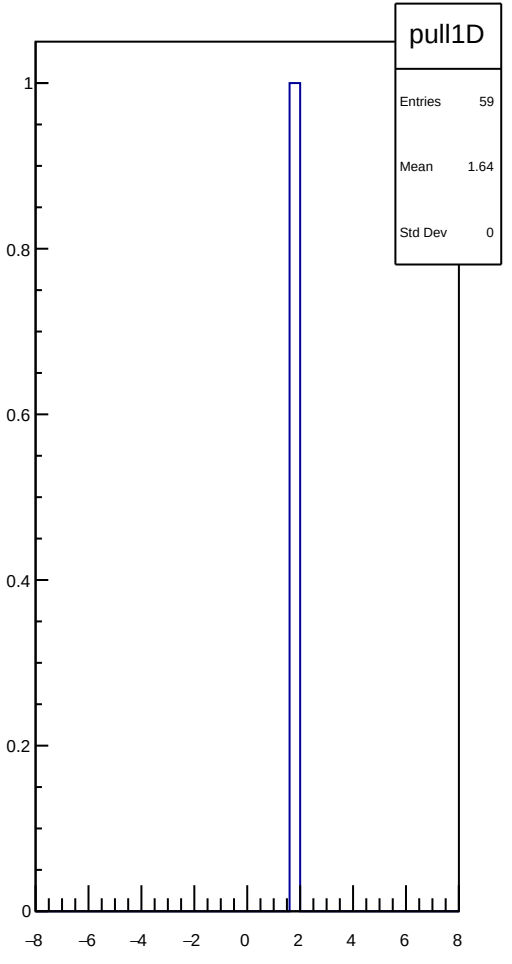

yield_bpm16Y_rms vs run
χ² / ndf 1.252e+05 / 58
p0 0.004597 ± 4.48e−06
0.012
0.01
0.008
0.006
0.004

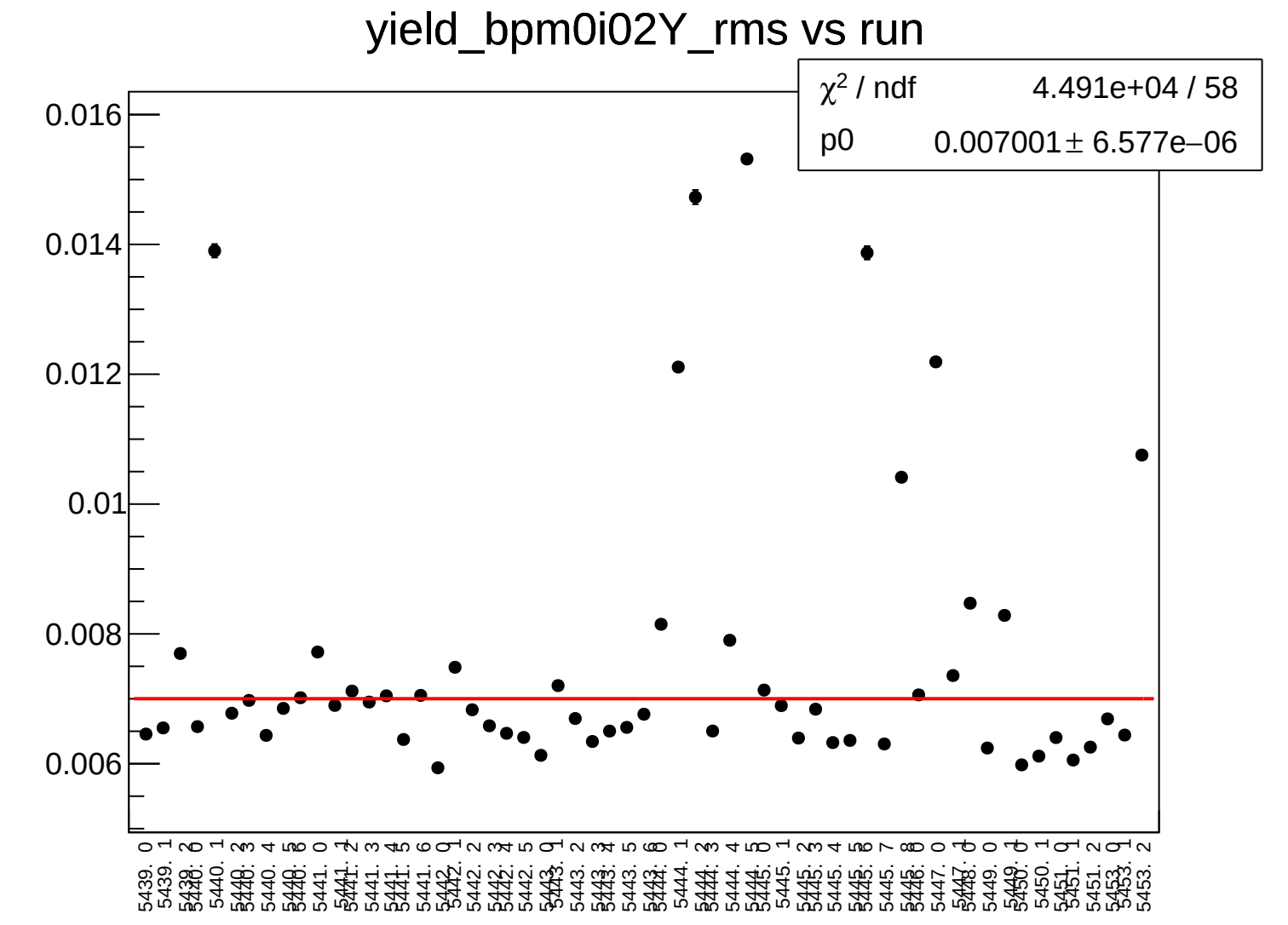

yield_bpm0i02X_mean vs run
χ² / ndf 8.513e+05 / 58
p0 −0.2973 ± 9.841e−06
−0.27
−0.28
−0.29
−0.3
−0.31
pull
Entries 59
Mean −288.3
Std Dev 320.5
300
200
100
0
−100
−200

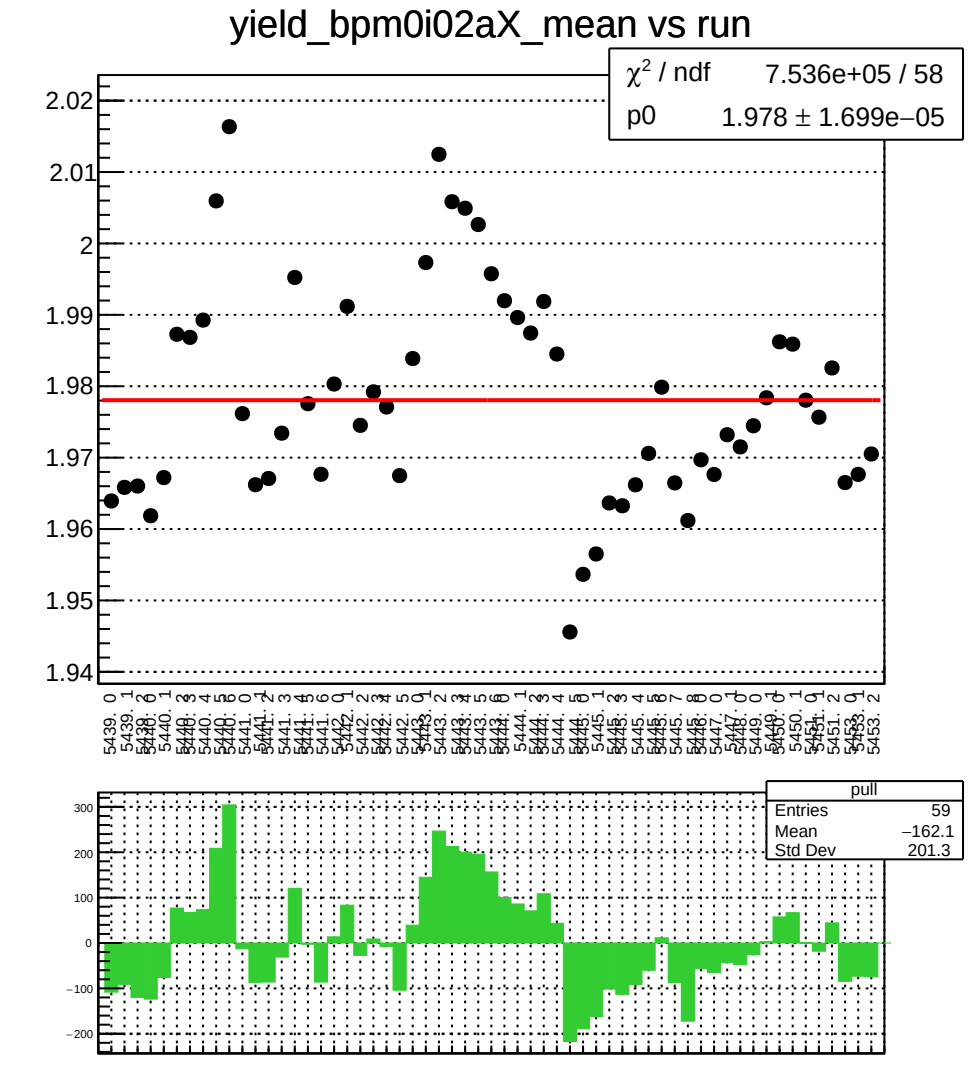

pull1D
Entries 59
Mean −2.904
Std Dev 4.432
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

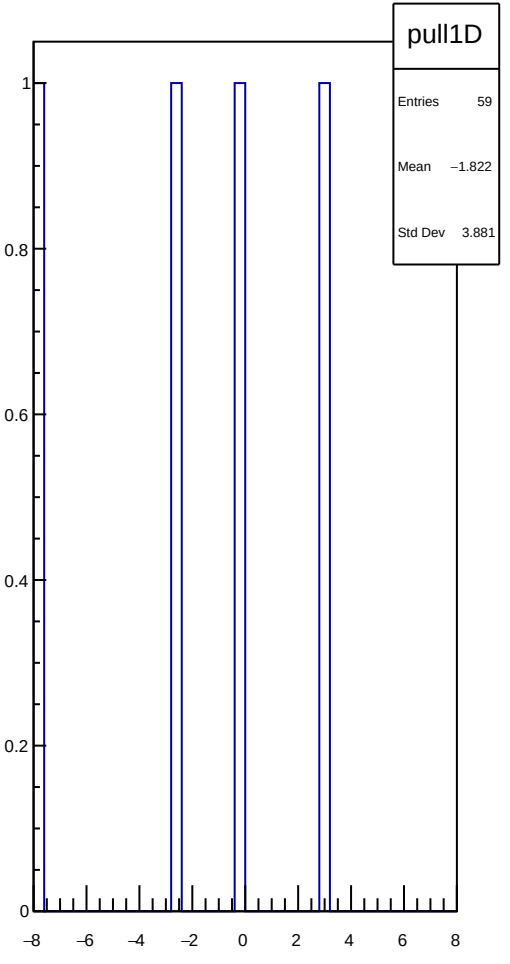

yield_bpm0i02X_rms vs run
χ² / ndf 1.047e+04 / 58
p0 0.007519 ± 6.959e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

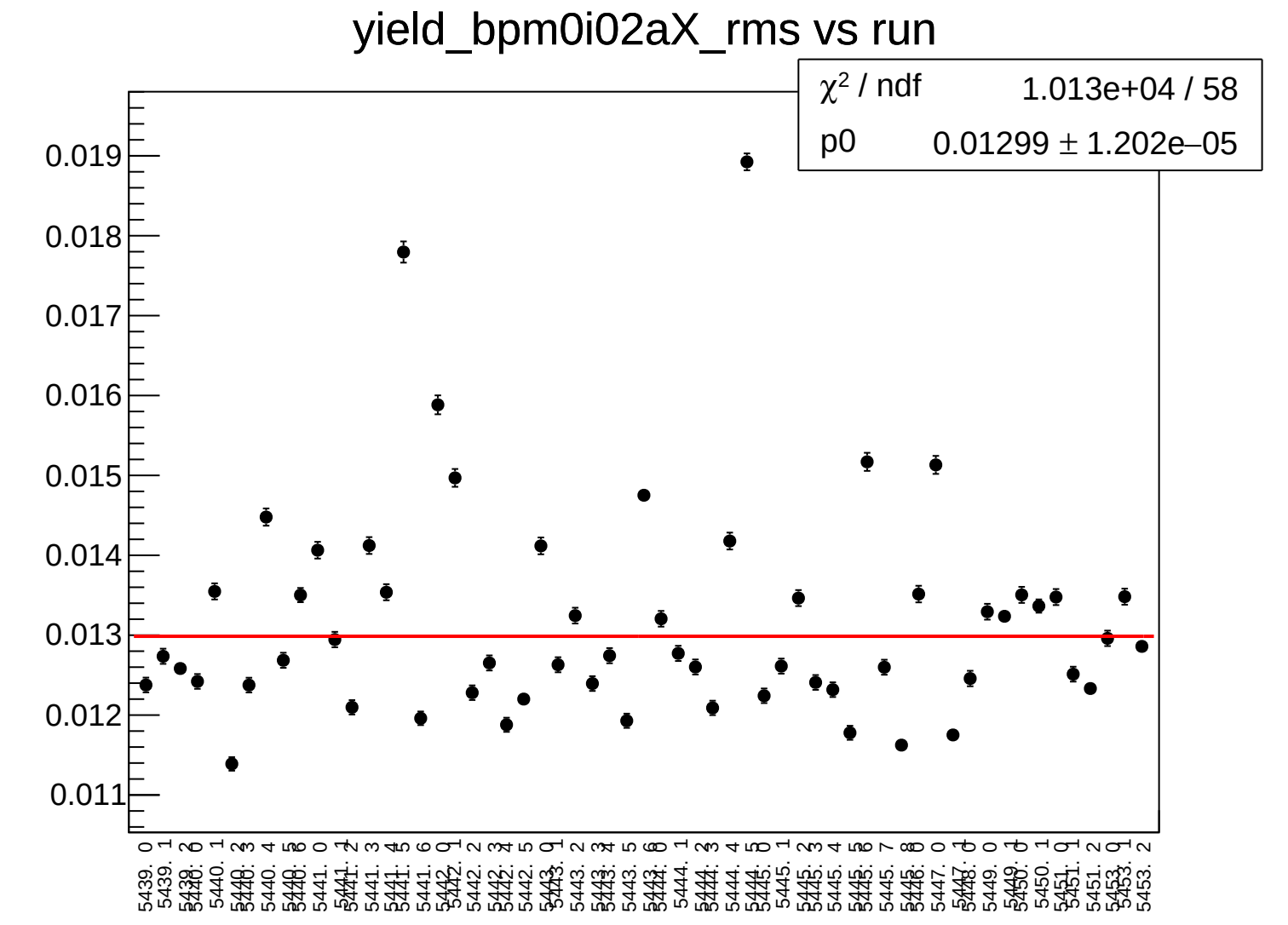

yield_bpm0i02Y_mean vs run
χ² / ndf 1.018e+06 / 58
p0 −2.584 ± 9.302e−06
−2.55
−2.56
−2.57
−2.58
−2.59
−2.6
−2.61
pull
Entries 59
Mean −180.5
Std Dev 203.1
300
200
100
0
−100
−200
−300

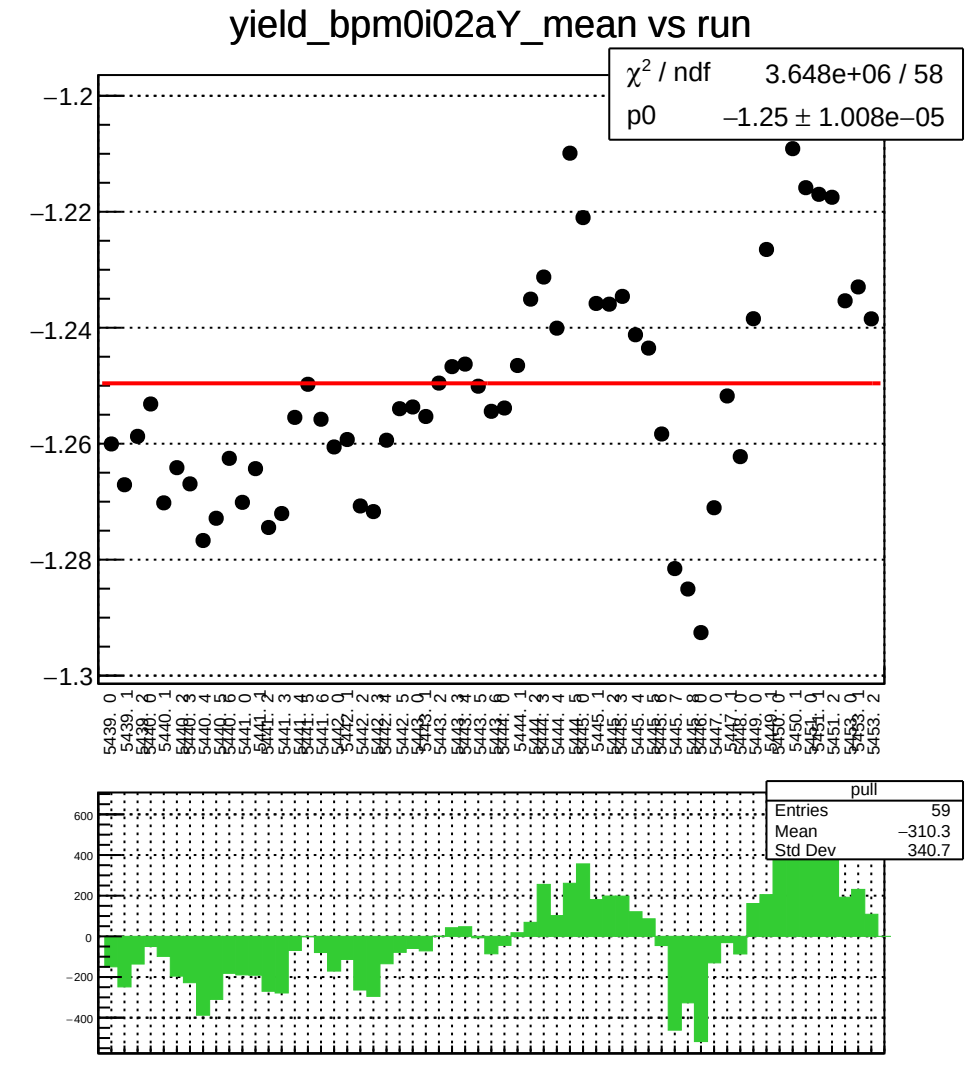

pull1D
Entries 59
Mean 1.64
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

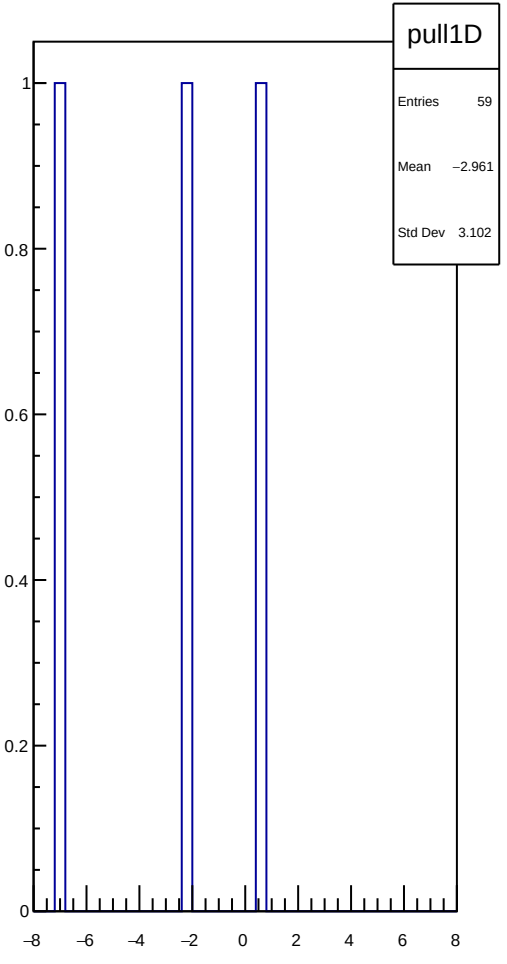

yield_bpm0i02Y_rms vs run
χ² / ndf 4.491e+04 / 58
p0 0.007001 ± 6.577e−06
0.016
0.014
0.012
0.01
0.008
0.006

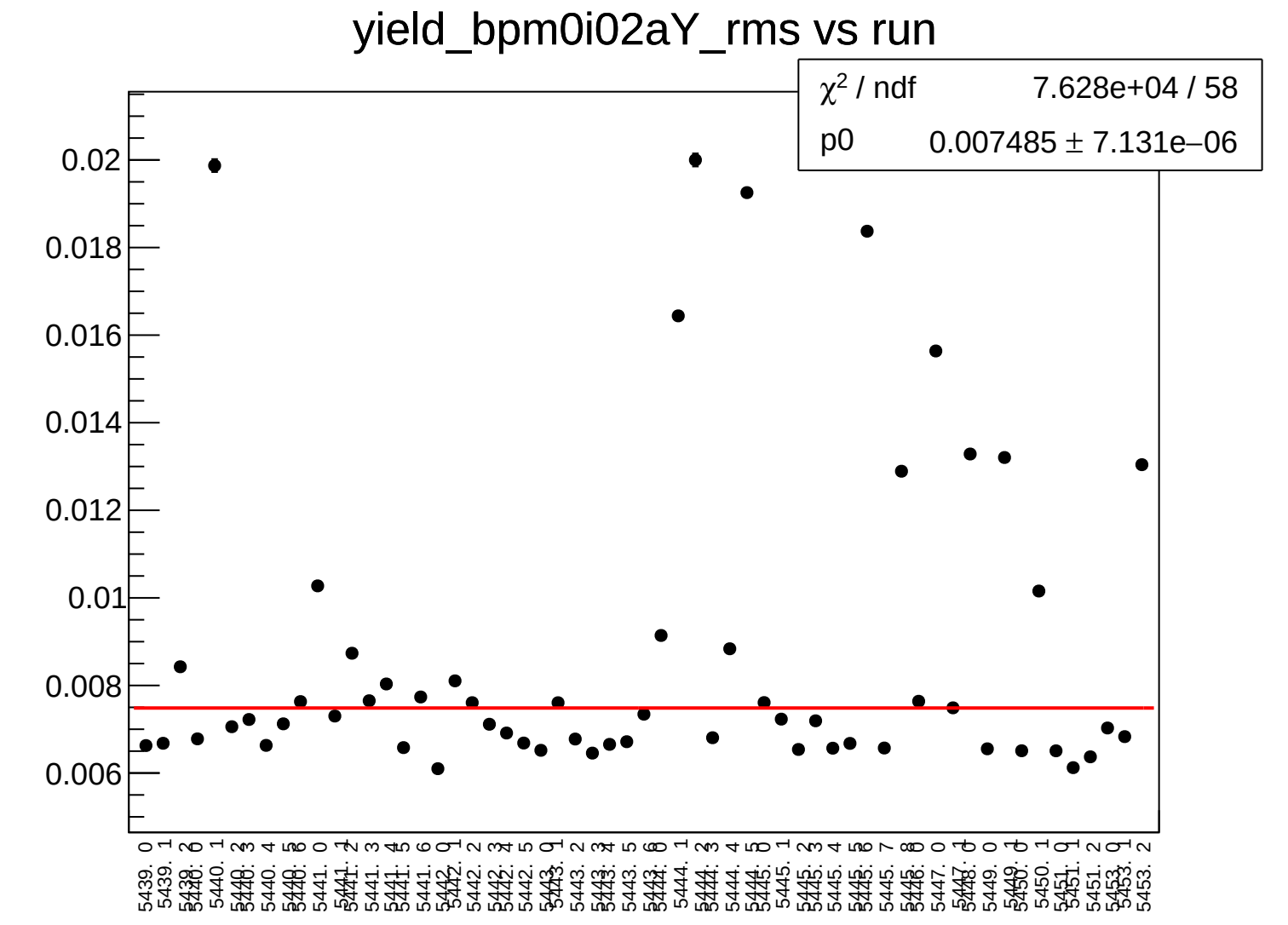

yield_bpm0i02aX_mean vs run
χ² / ndf 7.536e+05 / 58
p0 1.978 ± 1.699e−05
pull
Entries 59
Mean −162.1
Std Dev 201.3

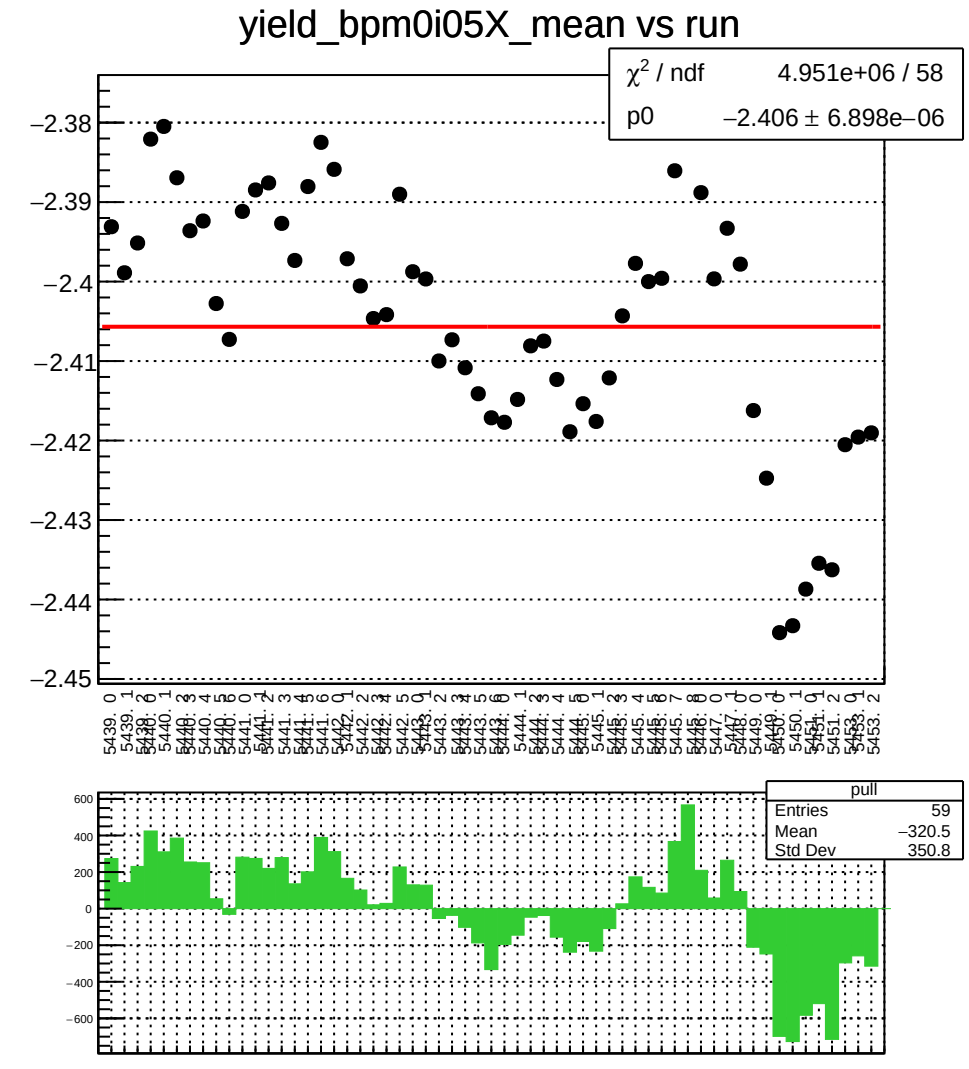

pull1D
Entries 59
Mean −1.822
Std Dev 3.881

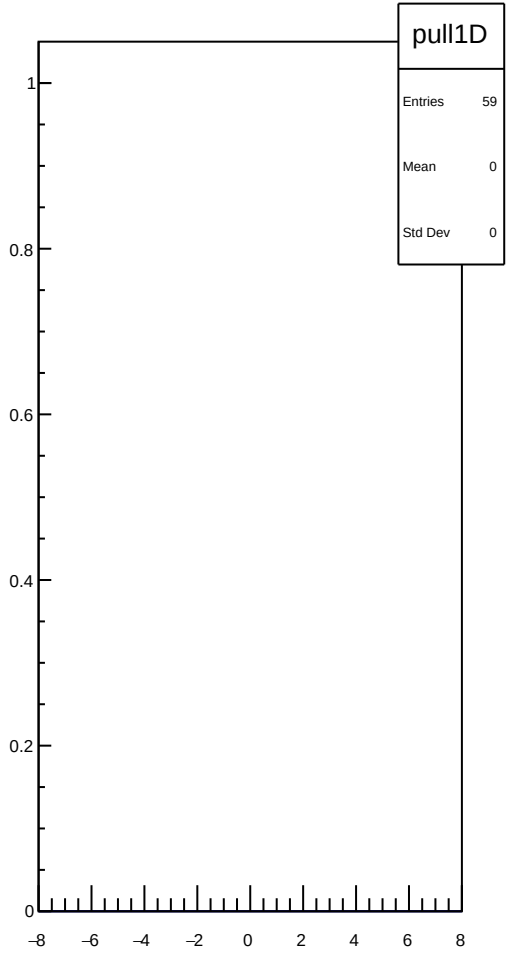

yield_bpm0i02aX_rms vs run
χ² / ndf 1.013e+04 / 58
p0 0.01299 ± 1.202e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

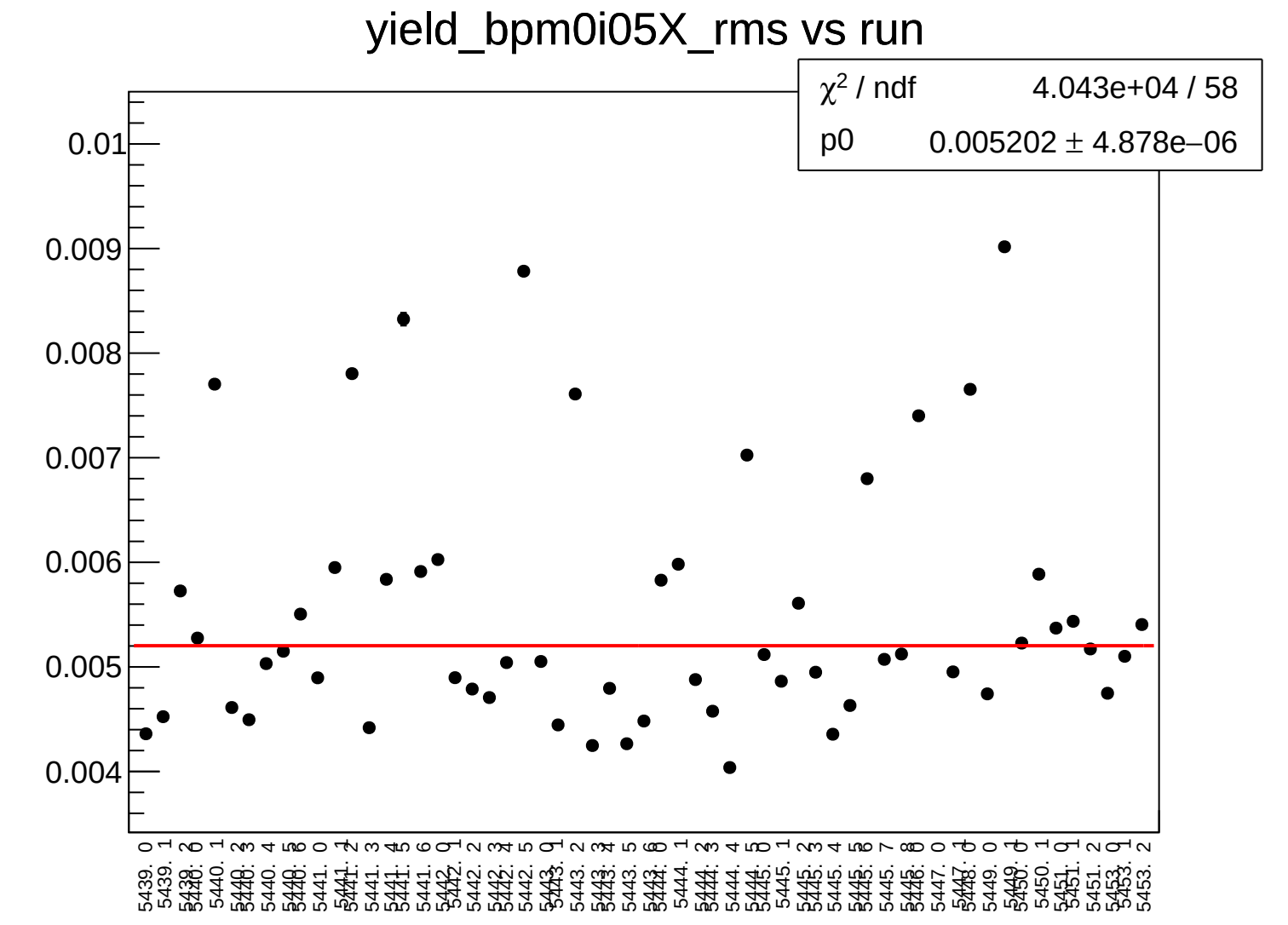

yield_bpm0i02aY_mean vs run
χ² / ndf 3.648e+06 / 58
p0 −1.25 ± 1.008e−05
−1.2
−1.22
−1.24
−1.26
−1.28
−1.3
pull
Entries 59
Mean −310.3
Std Dev 340.7
600
400
200
0
−200
−400

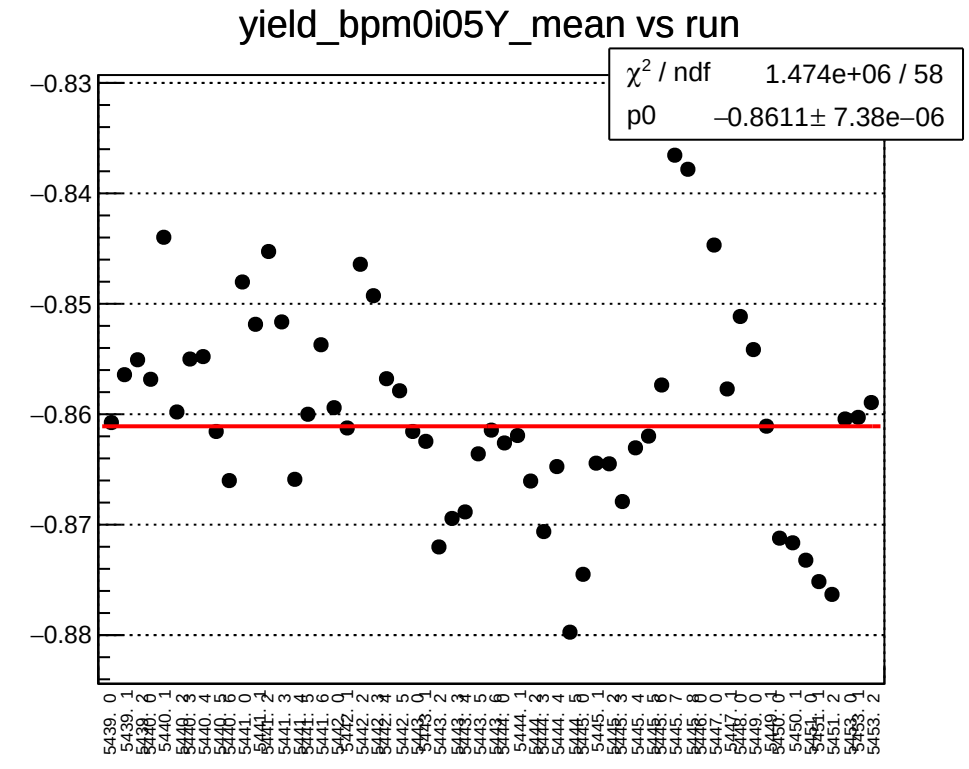

pull1D
Entries 59
Mean −2.961
Std Dev 3.102
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

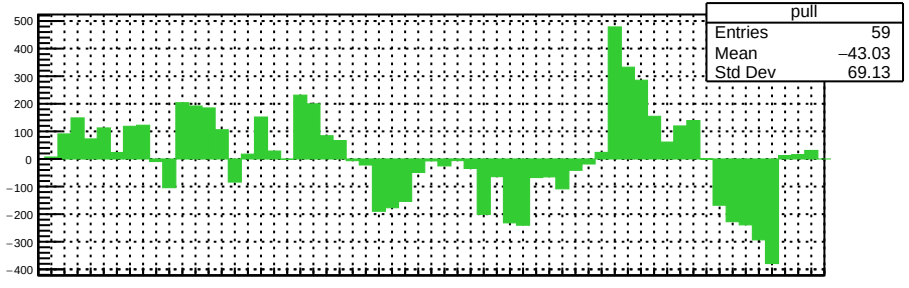

yield_bpm0i02aY_rms vs run
χ² / ndf 7.628e+04 / 58
p0 0.007485 ± 7.131e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

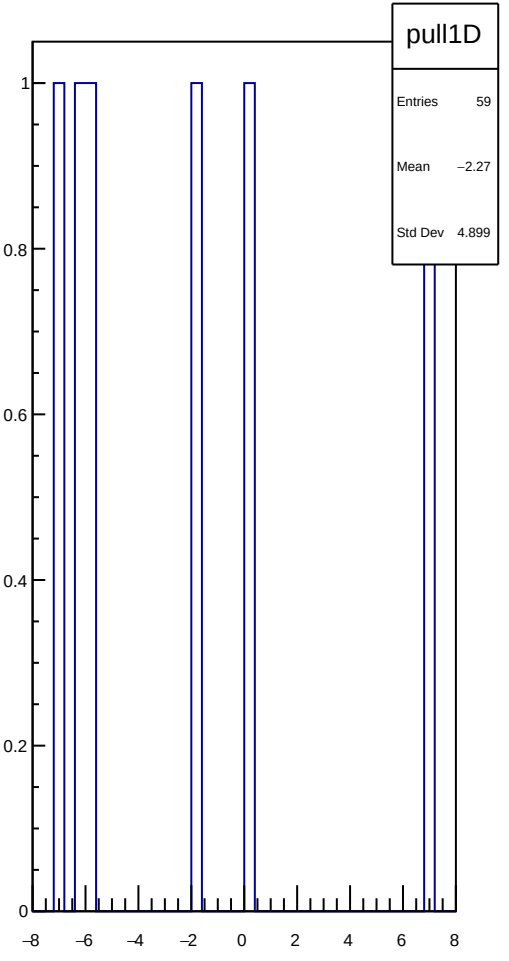

yield_bpm0i05X_mean vs run
χ² / ndf 4.951e+06 / 58
p0 −2.406 ± 6.898e−06
−2.38
−2.39
−2.4
−2.41
−2.42
−2.43
−2.44
−2.45
pull
Entries 59
Mean −320.5
Std Dev 350.8
600
400
200
0
−200
−400
−600

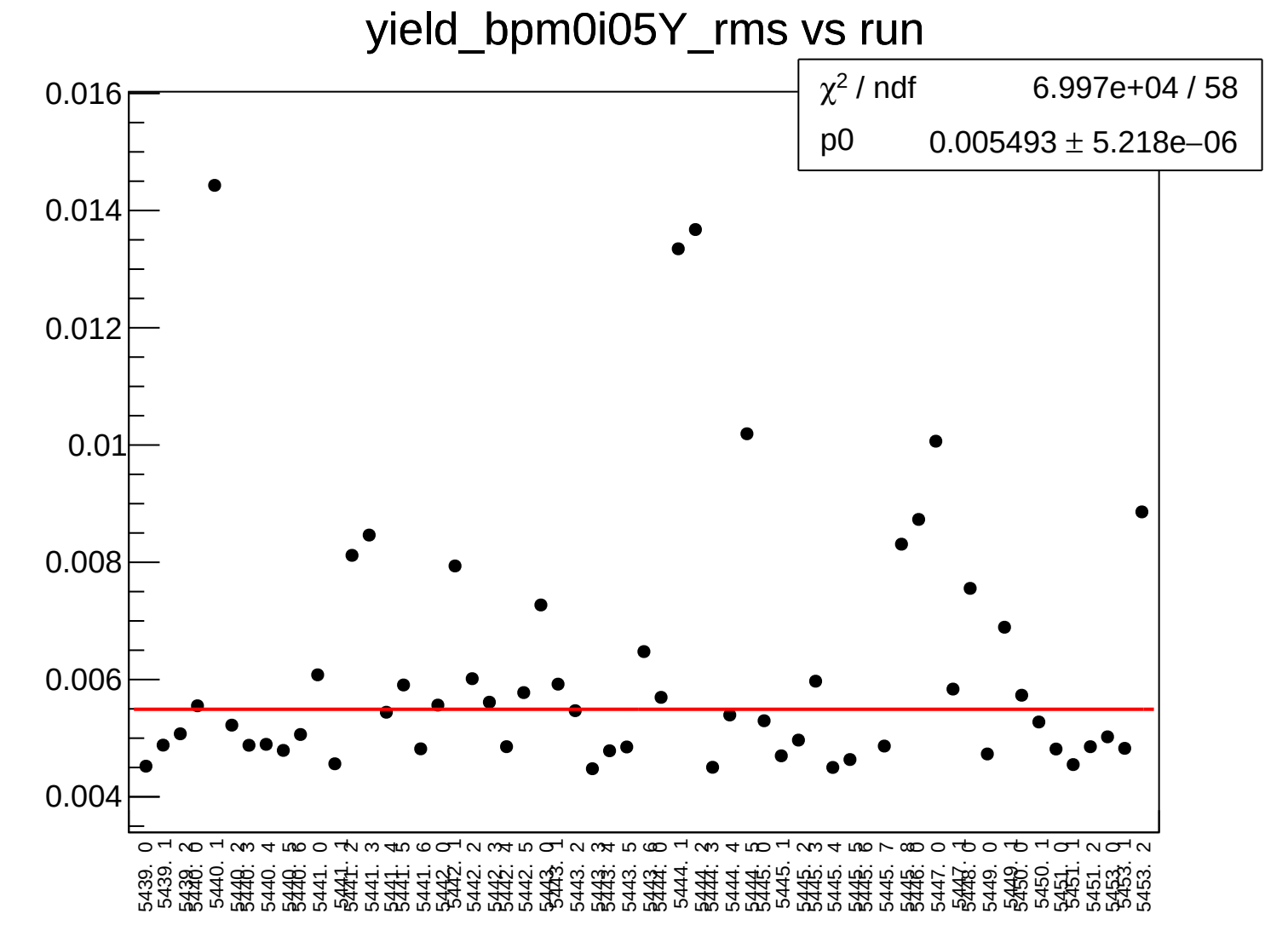

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

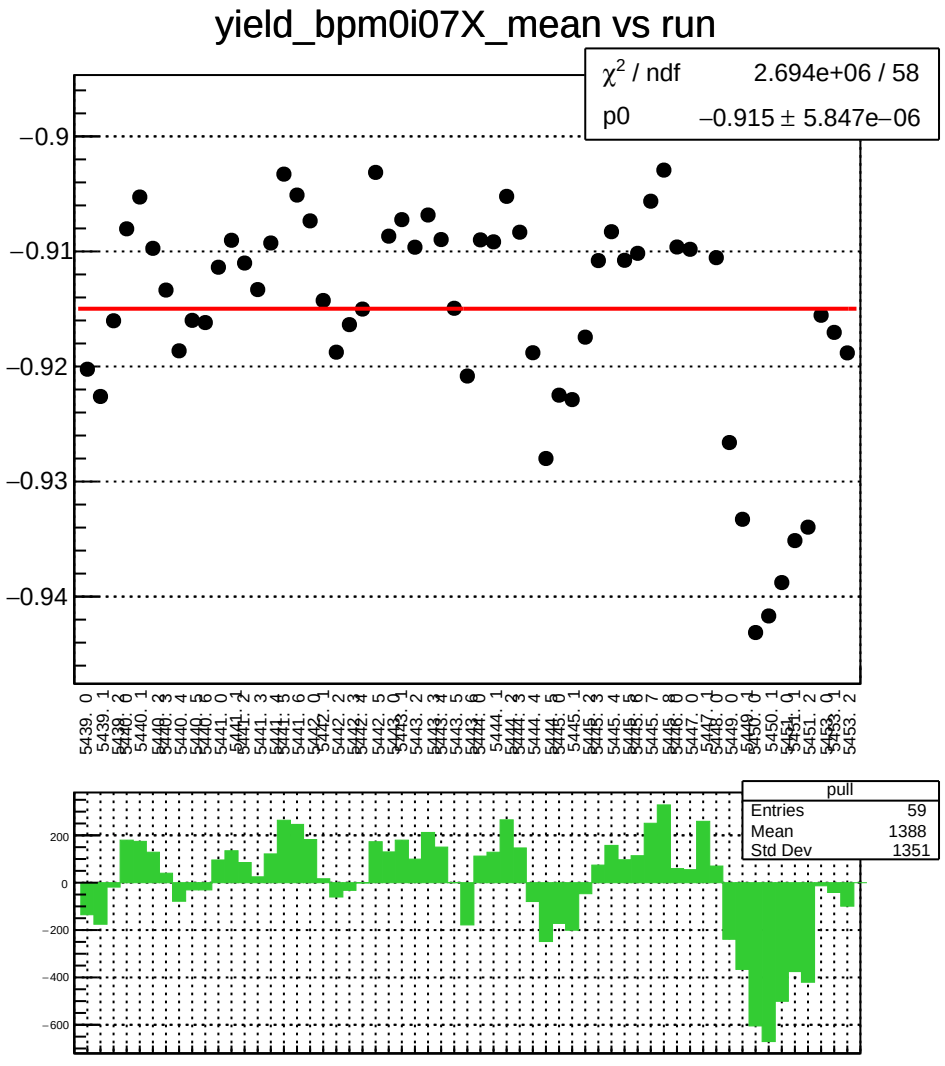

yield_bpm0i05X_rms vs run
χ² / ndf 4.043e+04 / 58
p0 0.005202 ± 4.878e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

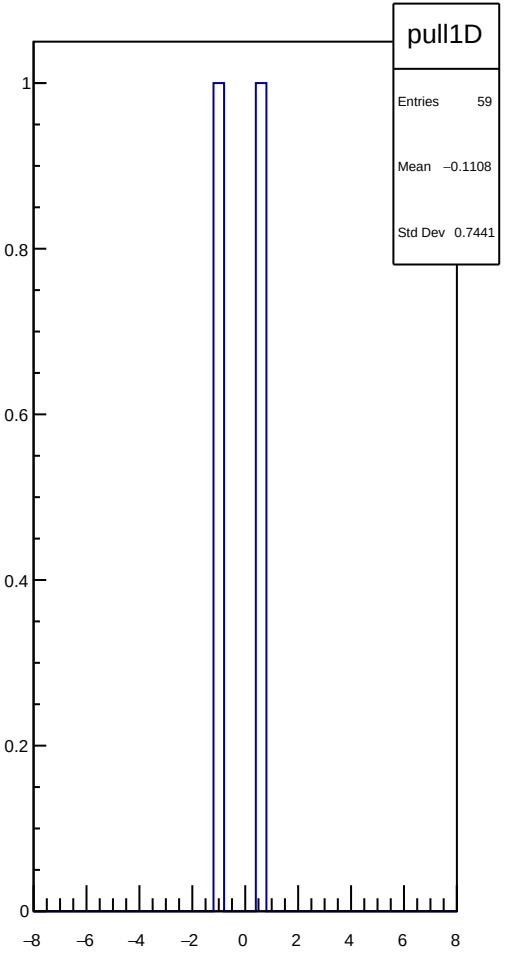

yield_bpm0i05Y_mean vs run
χ² / ndf 1.474e+06 / 58
p0 −0.8611± 7.38e−06
−0.83
−0.84
−0.85
−0.86
−0.87
−0.88

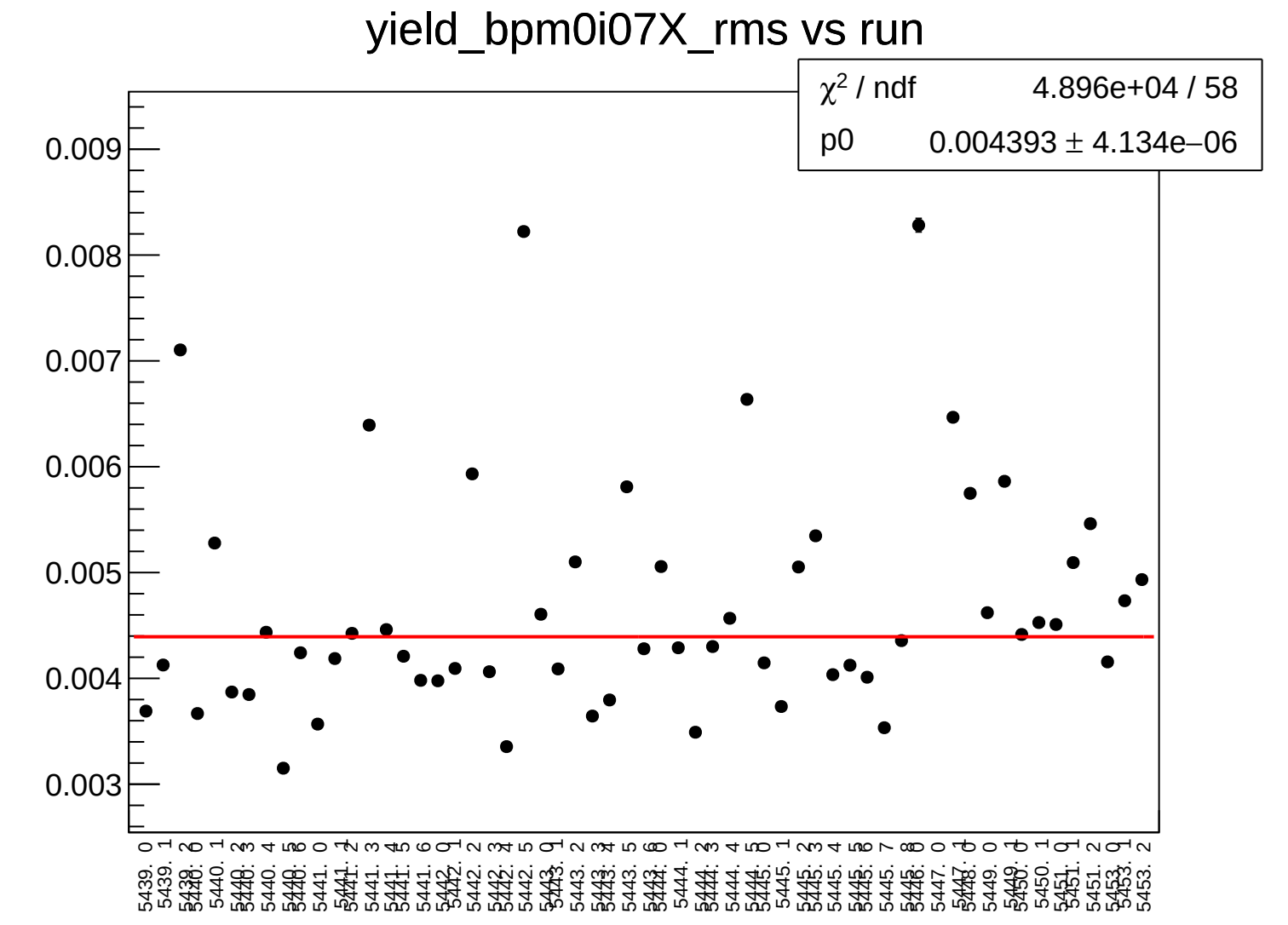

pull
Entries 59
Mean −43.03
Std Dev 69.13
500
400
300
200
100
0
−100
−200
−300
−400

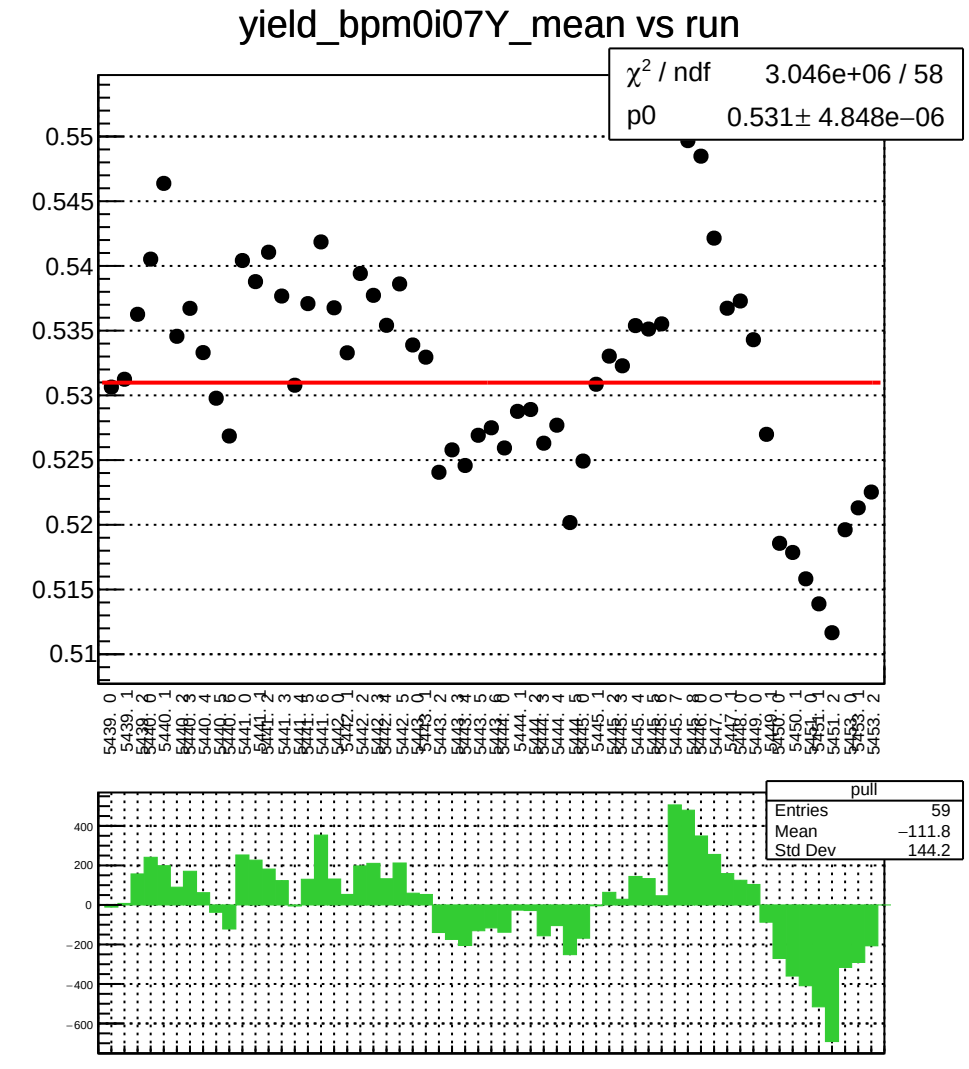

pull1D
Entries 59
Mean −2.27
Std Dev 4.899
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

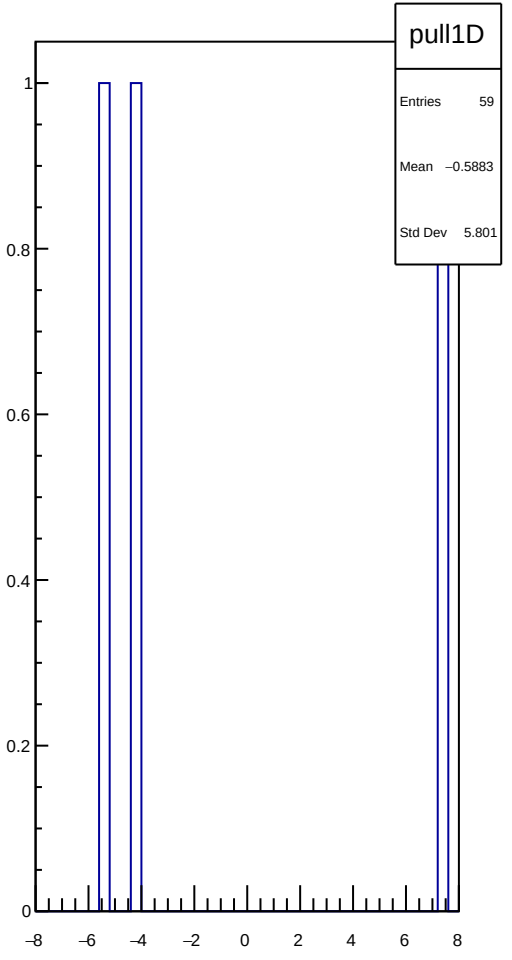

yield_bpm0i05Y_rms vs run
χ² / ndf 6.997e+04 / 58
p0 0.005493 ± 5.218e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

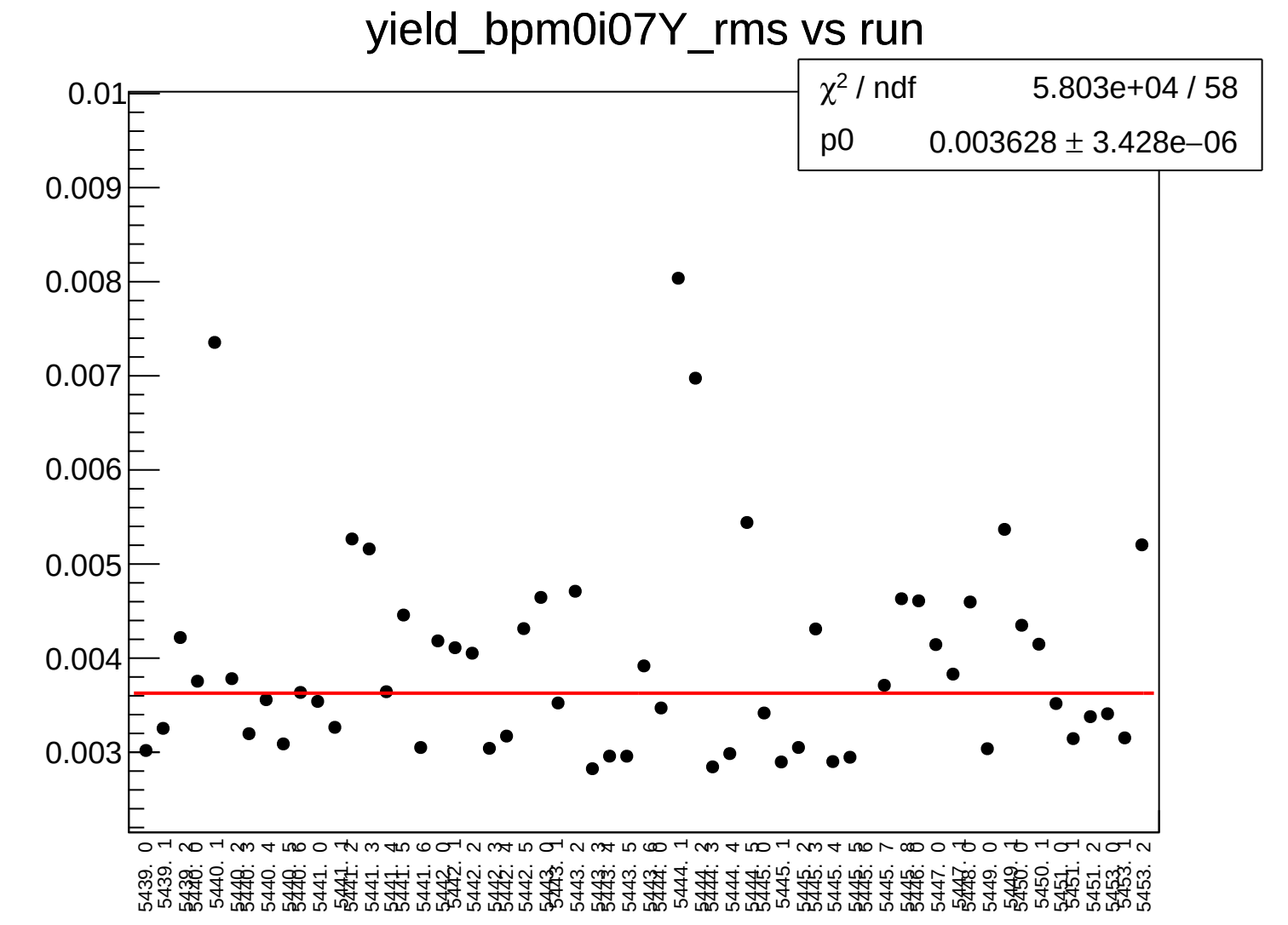

yield_bpm0i07X_mean vs run
χ² / ndf 2.694e+06 / 58
p0 −0.915 ± 5.847e−06
−0.9
−0.91
−0.92
−0.93
−0.94
pull
Entries 59
Mean 1388
Std Dev 1351
200
0
−200
−400
−600

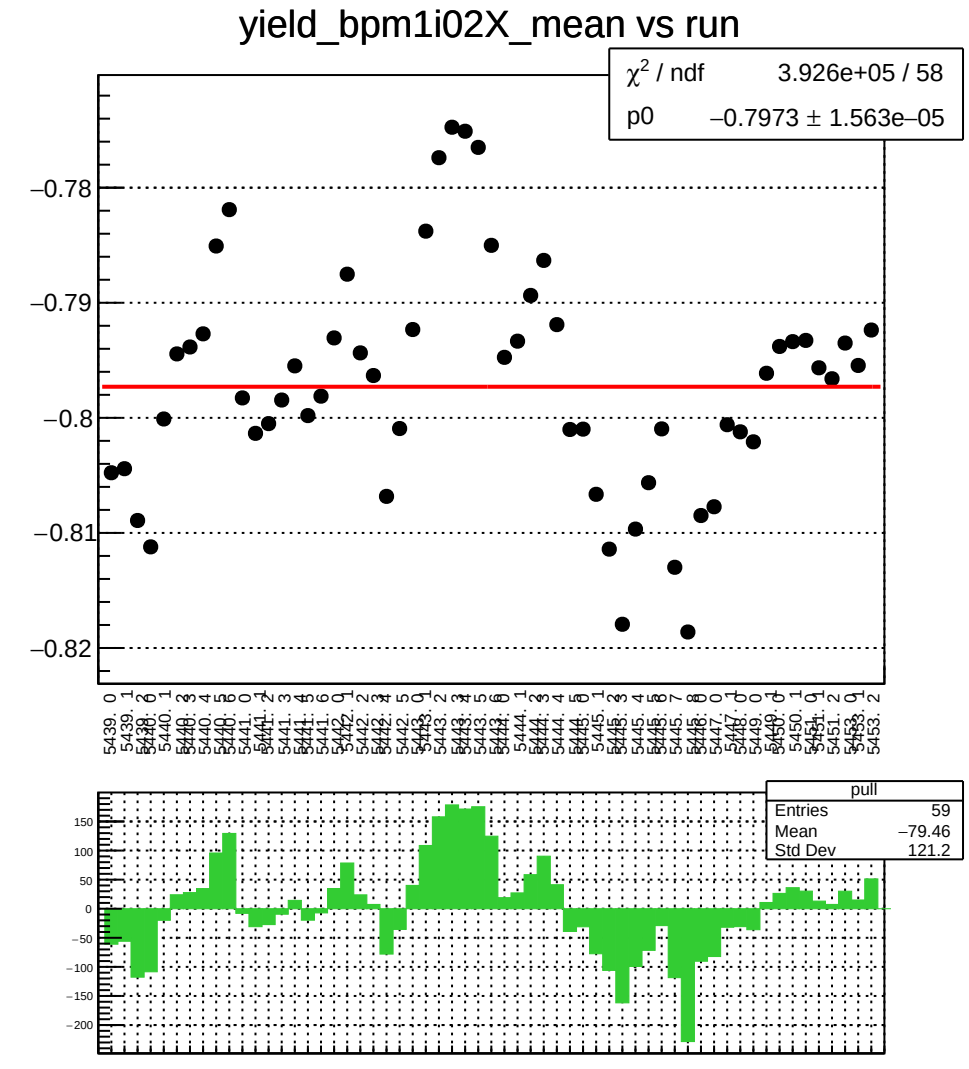

pull1D
Entries 59
Mean −0.1108
Std Dev 0.7441
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

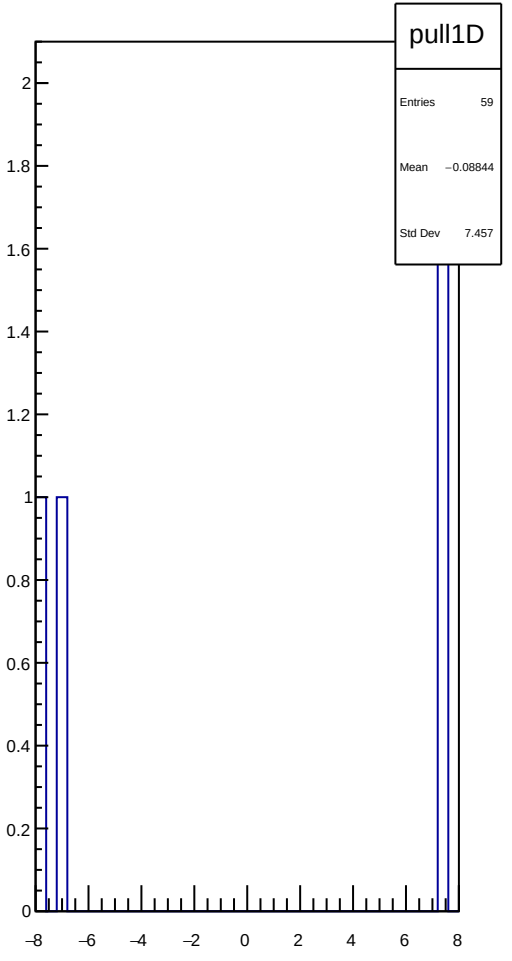

yield_bpm0i07X_rms vs run
χ² / ndf 4.896e+04 / 58
p0 0.004393 ± 4.134e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

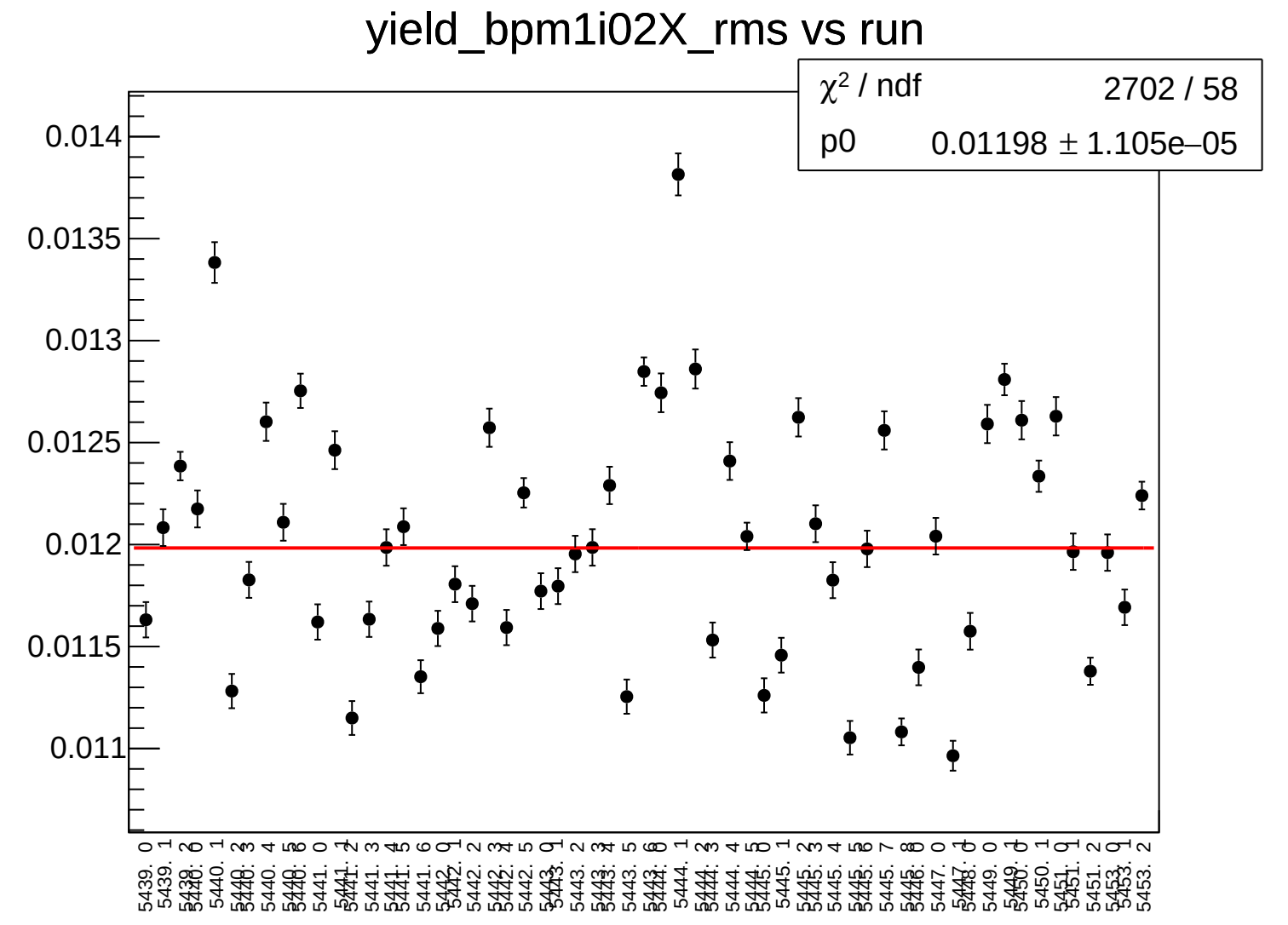

yield_bpm0i07Y_mean vs run
χ² / ndf 3.046e+06 / 58
p0 0.531± 4.848e−06
pull
Entries 59
Mean −111.8
Std Dev 144.2

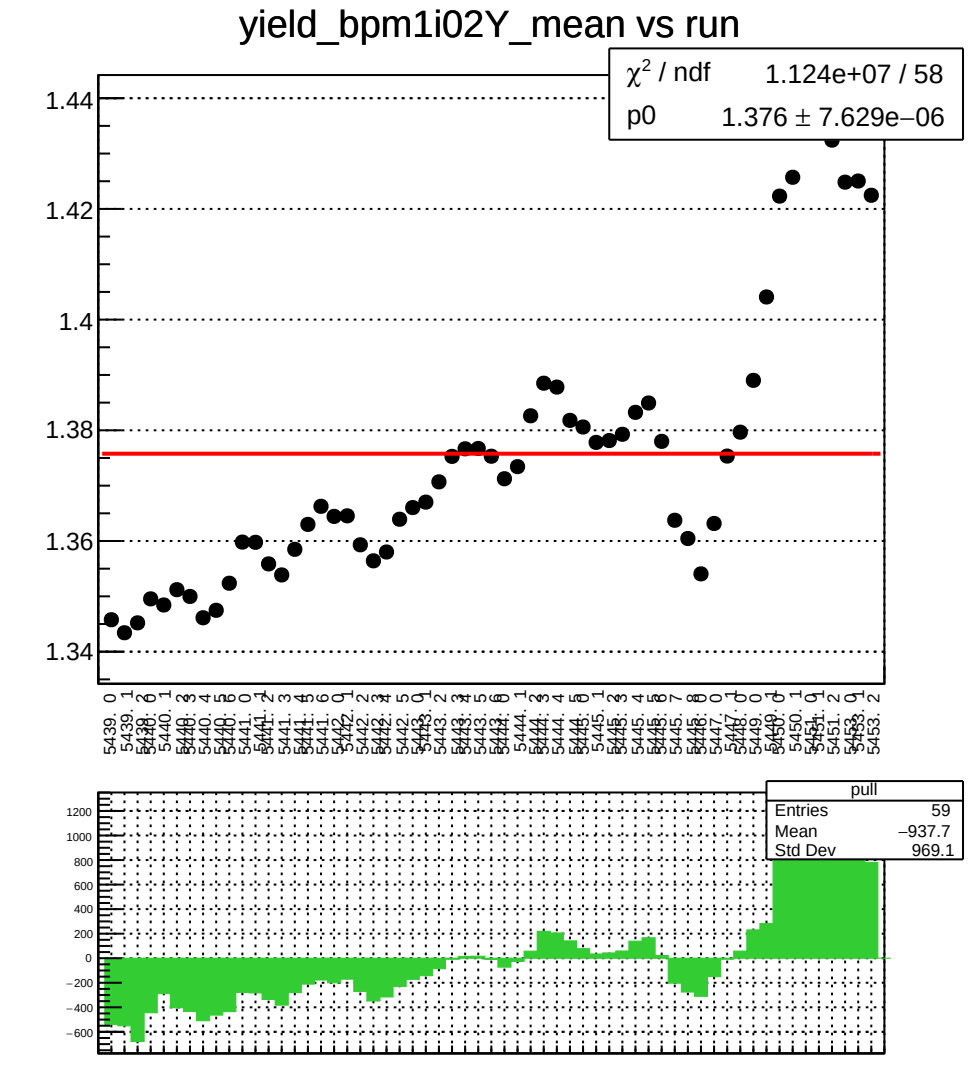

pull1D
Entries 59
Mean −0.5883
Std Dev 5.801

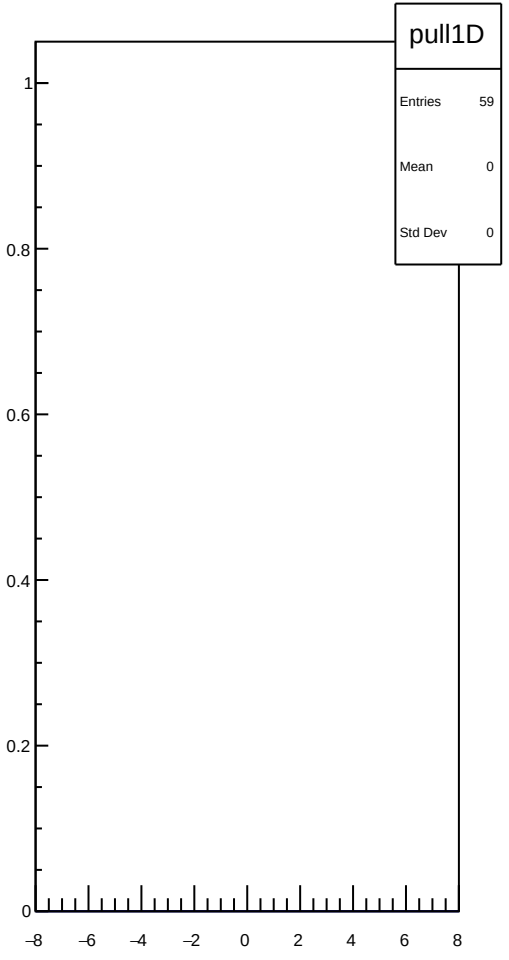

yield_bpm0i07Y_rms vs run
χ² / ndf 5.803e+04 / 58
p0 0.003628 ± 3.428e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

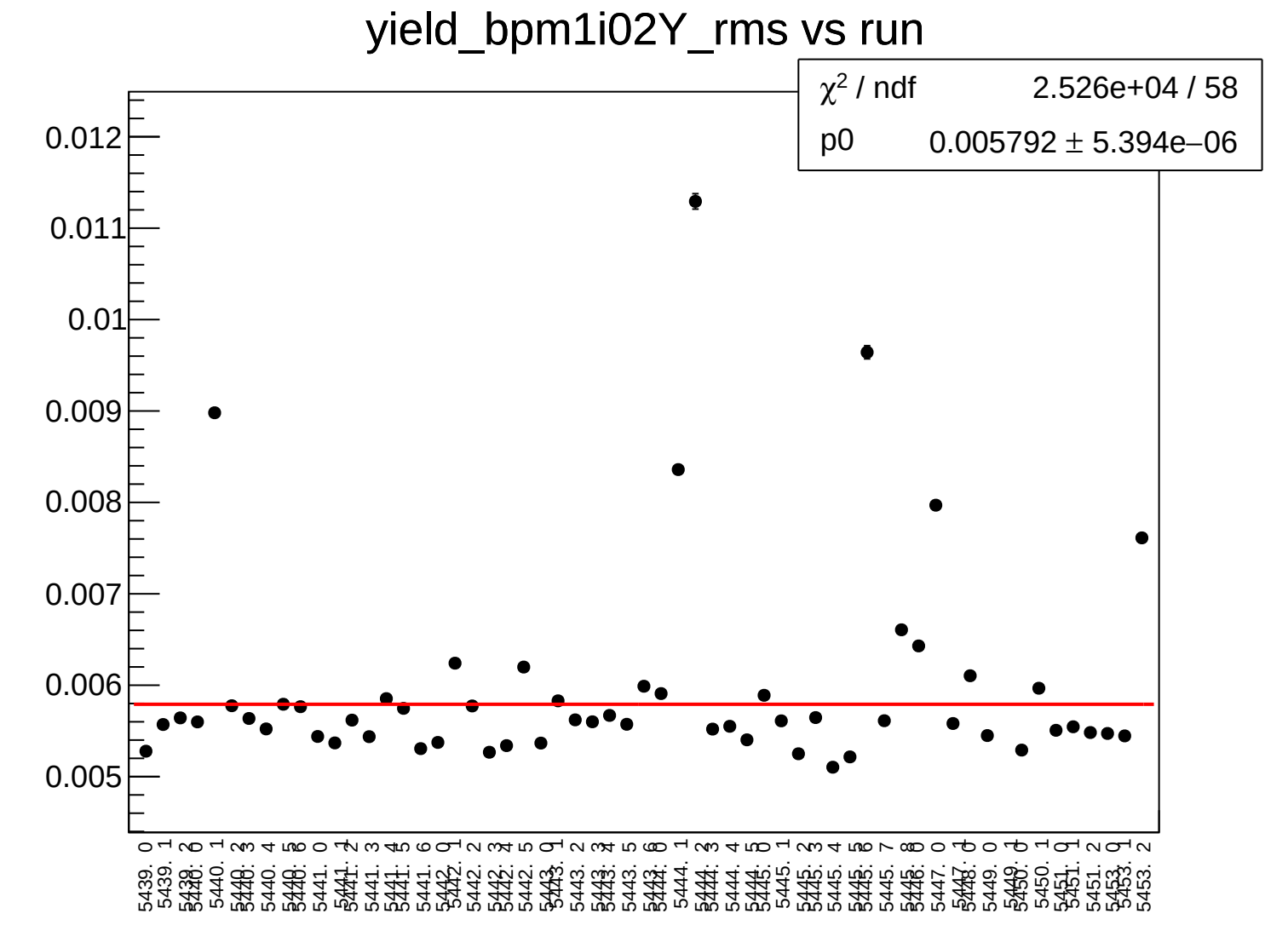

yield_bpm1i02X_mean vs run
χ² / ndf 3.926e+05 / 58
p0 −0.7973 ± 1.563e−05
−0.78
−0.79
−0.8
−0.81
−0.82
pull
Entries 59
Mean −79.46
Std Dev 121.2
150
100
50
0
−50
−100
−150
−200

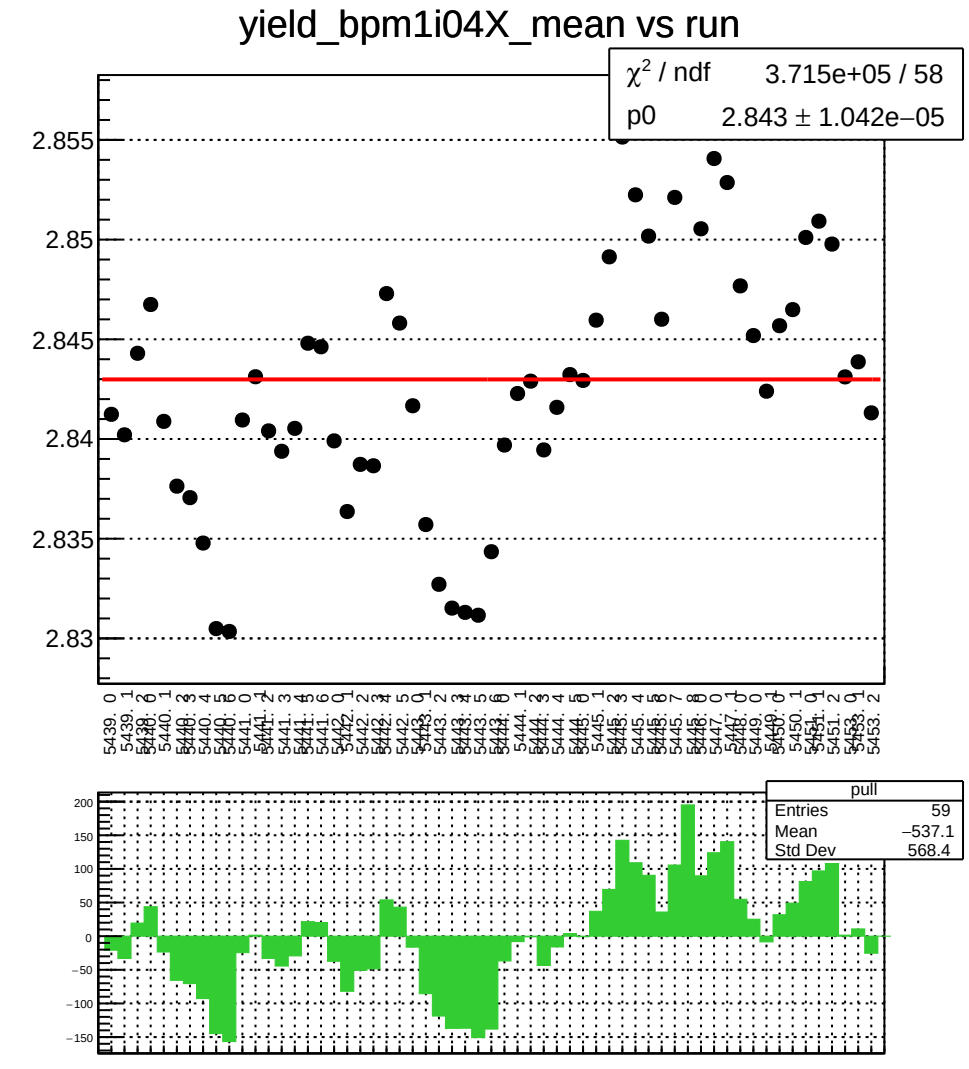

pull1D
Entries 59
Mean −0.08844
Std Dev 7.457
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

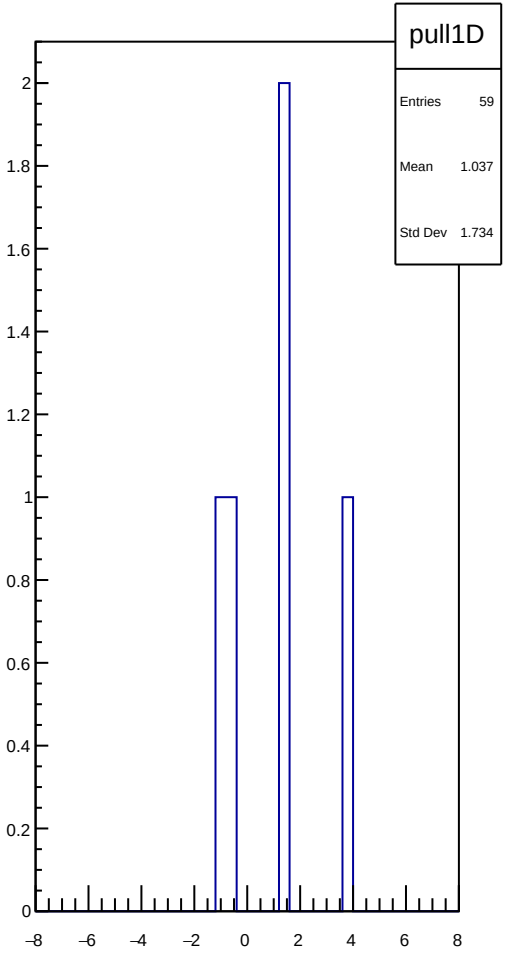

yield_bpm1i02X_rms vs run
χ² / ndf 2702 / 58
p0 0.01198 ± 1.105e–05
0.014
0.0135
0.013
0.0125
0.012
0.0115
0.011

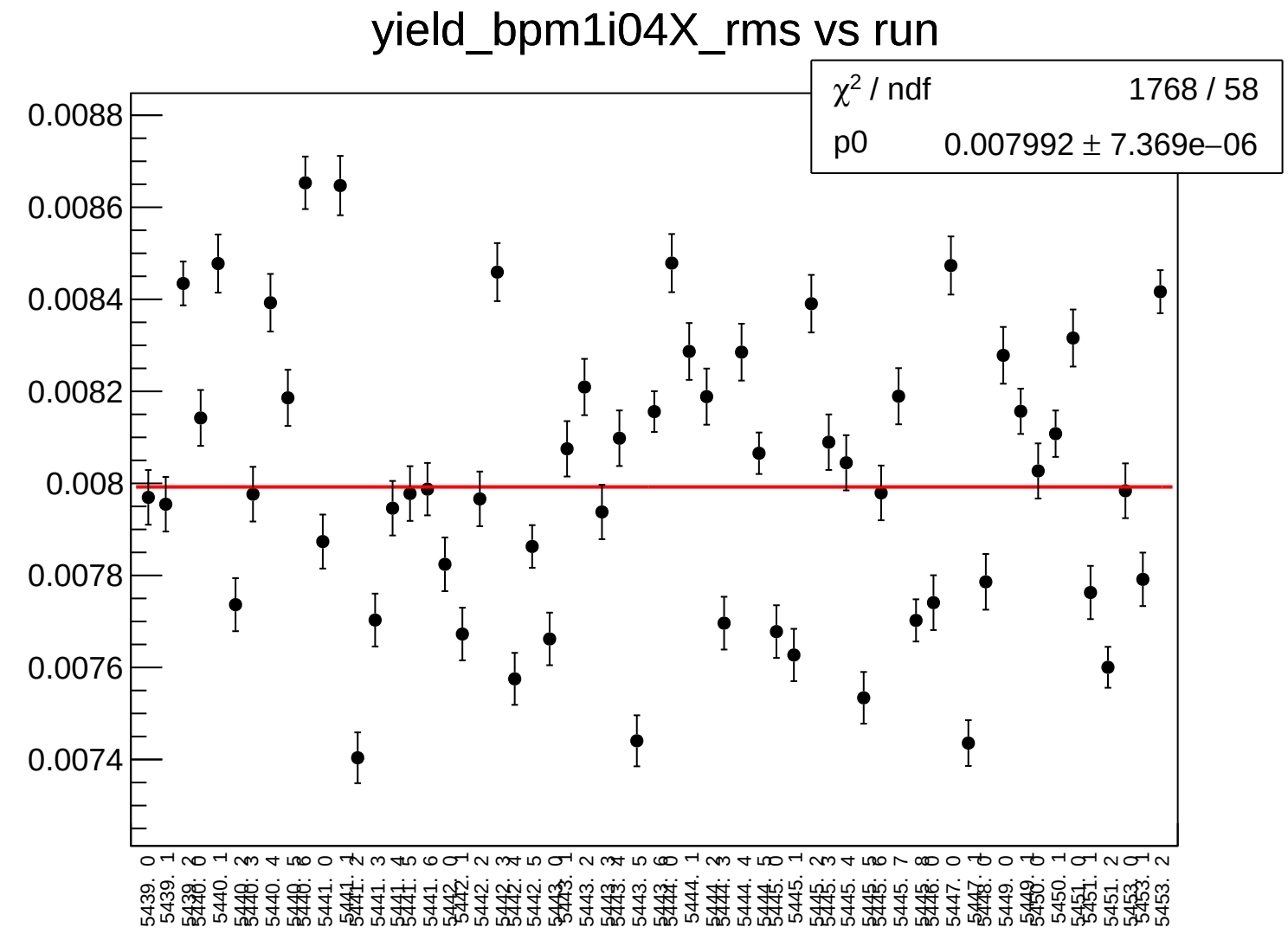

yield_bpm1i02Y_mean vs run
χ² / ndf 1.124e+07 / 58
p0 1.376 ± 7.629e−06
1.44
1.42
1.4
1.38
1.36
1.34
pull
Entries 59
Mean −937.7
Std Dev 969.1
1200
1000
800
600
400
200
0
−200
−400
−600

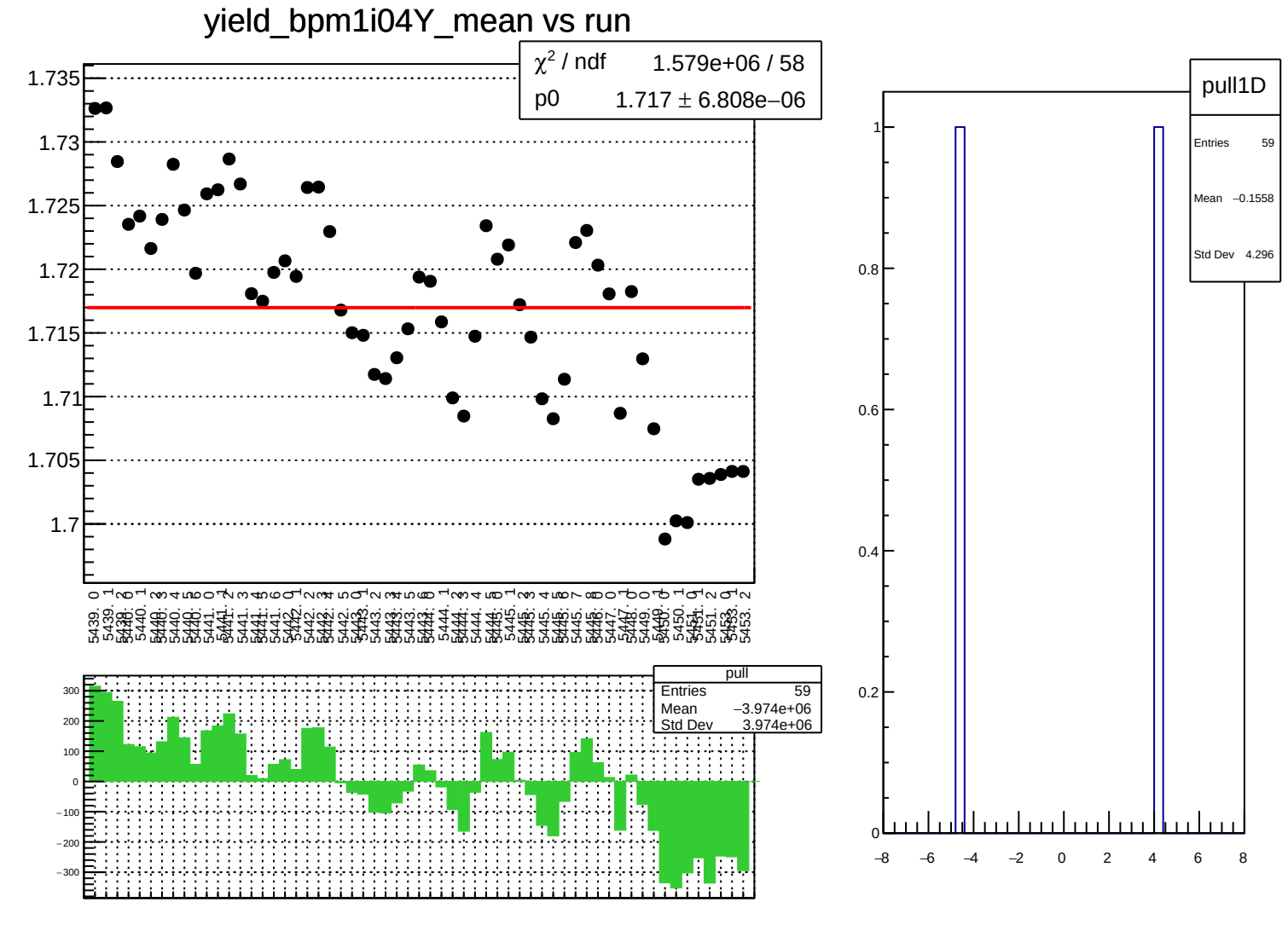

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

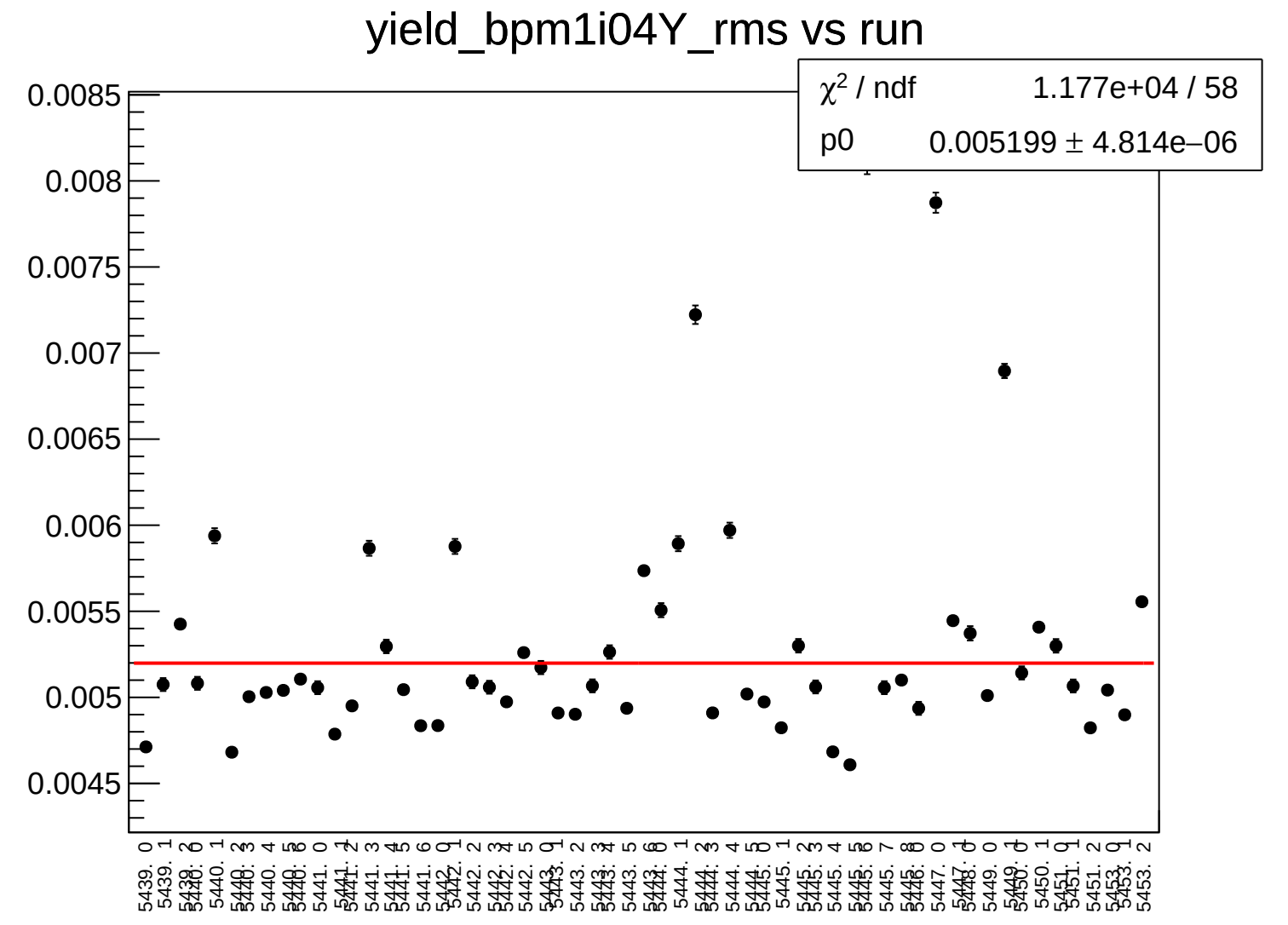

yield_bpm1i02Y_rms vs run
χ² / ndf 2.526e+04 / 58
p0 0.005792 ± 5.394e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

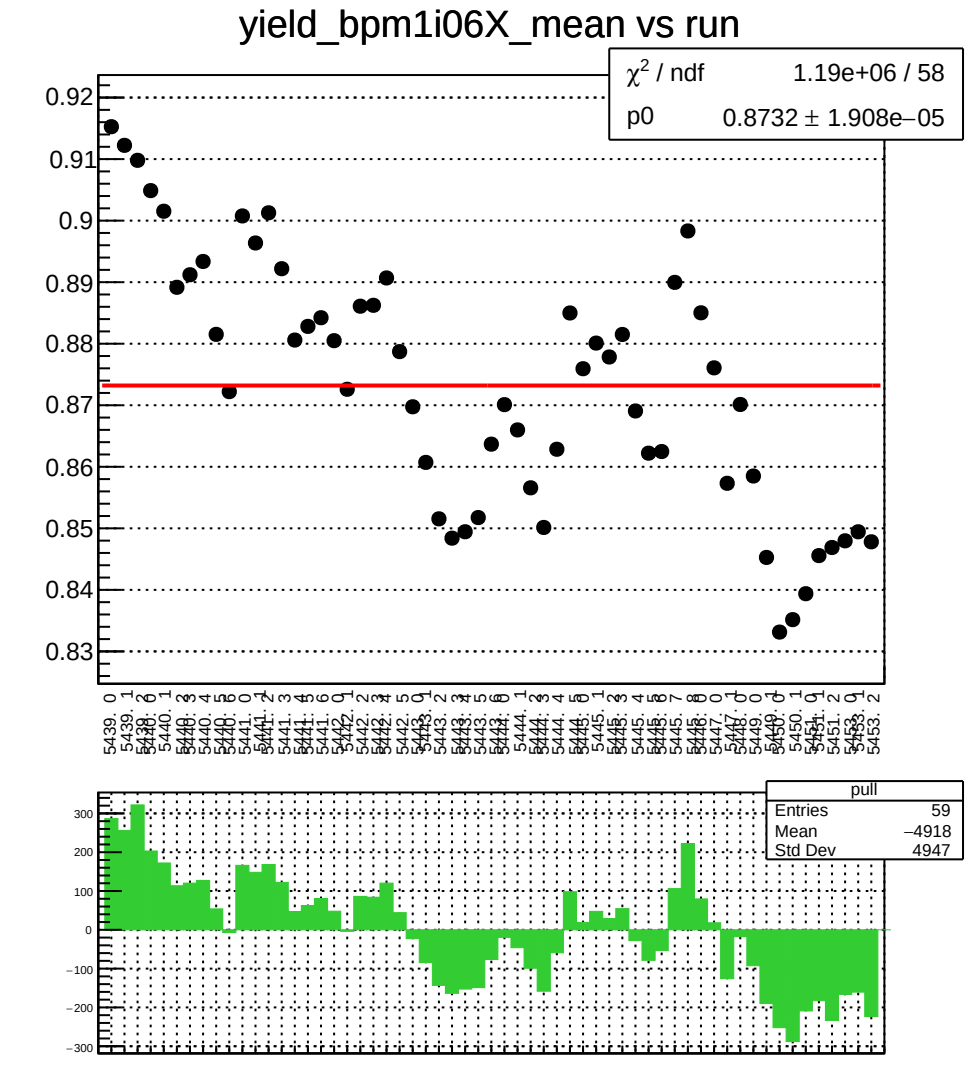

yield_bpm1i04X_mean vs run
χ² / ndf 3.715e+05 / 58
p0 2.843 ± 1.042e−05
2.855
2.85
2.845
2.84
2.835
2.83
pull
Entries 59
Mean −537.1
Std Dev 568.4
200
150
100
50
0
−50
−100
−150

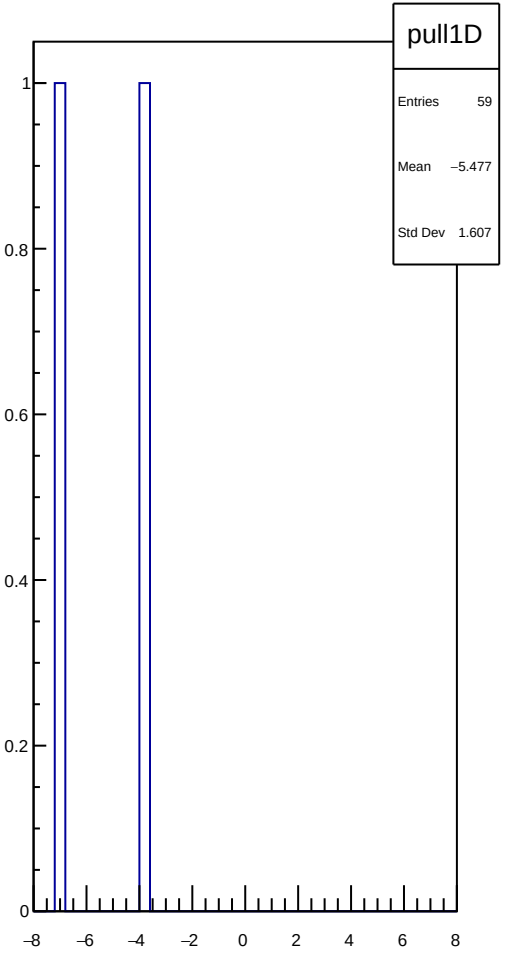

pull1D
Entries 59
Mean 1.037
Std Dev 1.734
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

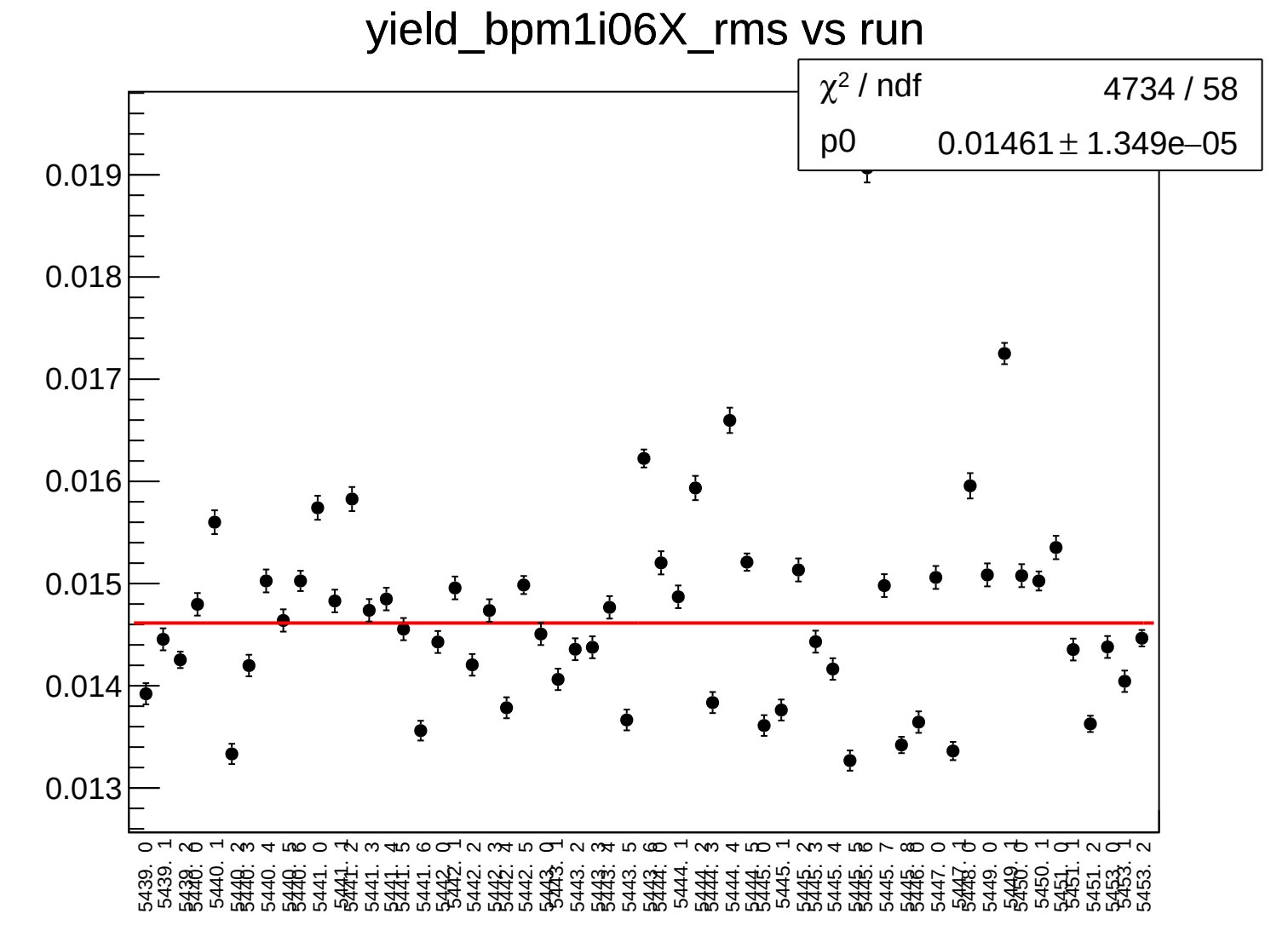

yield_bpm1i04X_rms vs run
χ² / ndf 1768 / 58
p0 0.007992 ± 7.369e−06
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074

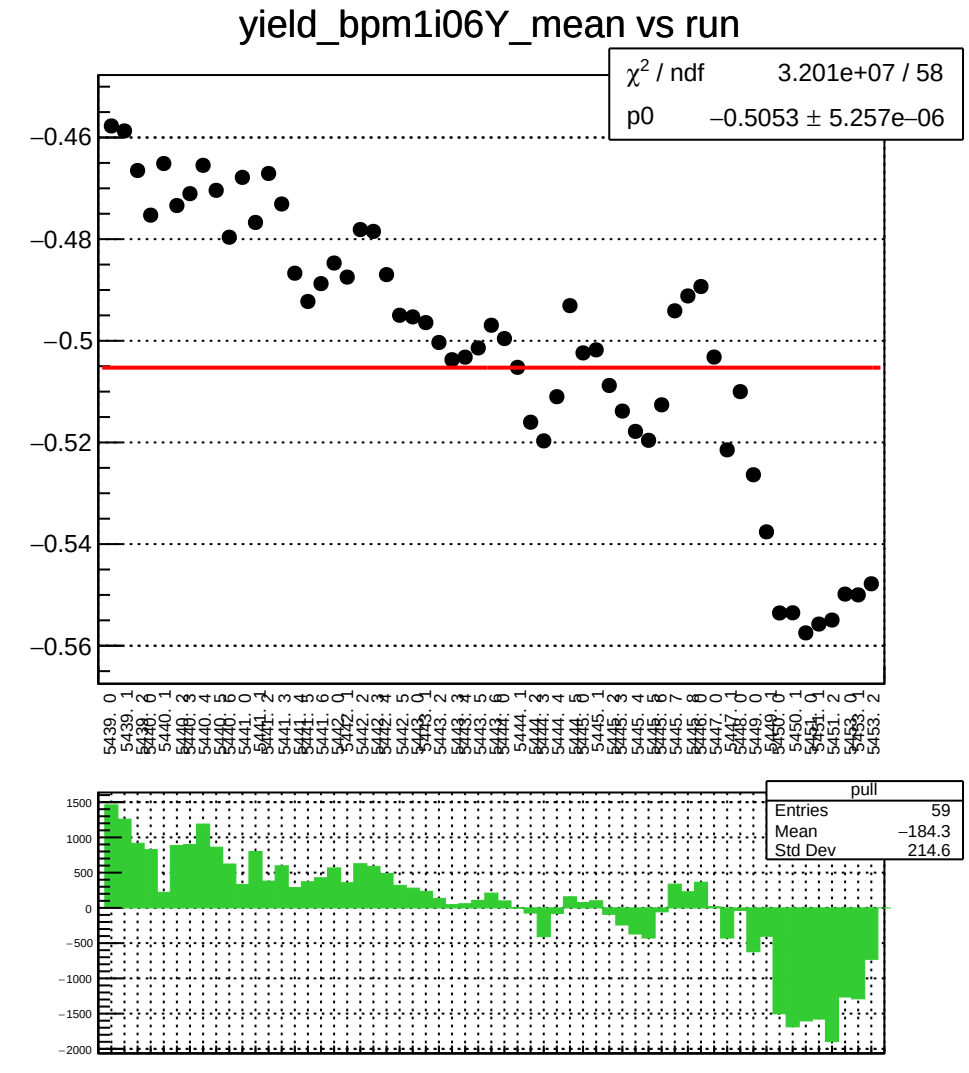

yield_bpm1i04Y_mean vs run
χ² / ndf 1.579e+06 / 58
p0 1.717 ± 6.808e−06
1.735
1.73
1.725
1.72
1.715
1.71
1.705
1.7
pull
Entries 59
Mean −3.974e+06
Std Dev 3.974e+06
300
200
100
0
−100
−200
−300
pull1D
Entries 59
Mean −0.1558
Std Dev 4.296
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

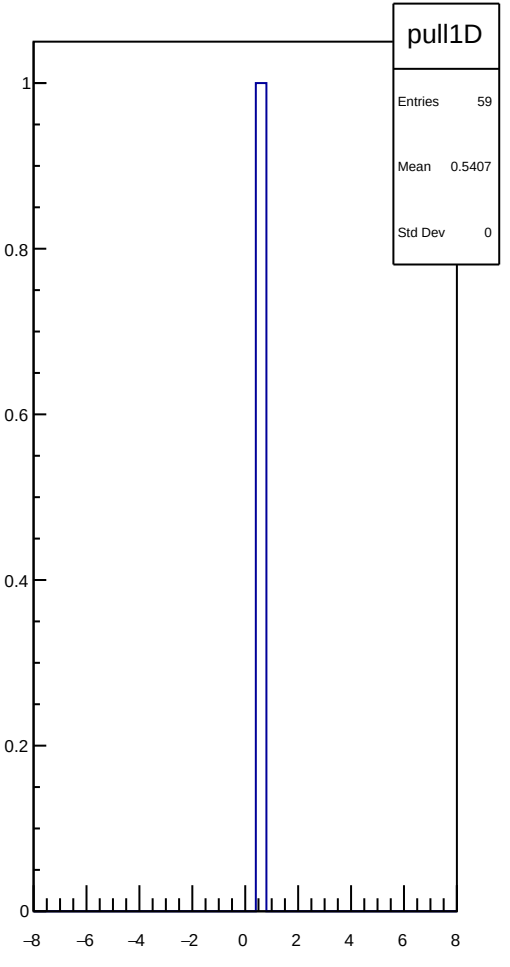

yield_bpm1i04Y_rms vs run
χ² / ndf 1.177e+04 / 58
p0 0.005199 ± 4.814e−06
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

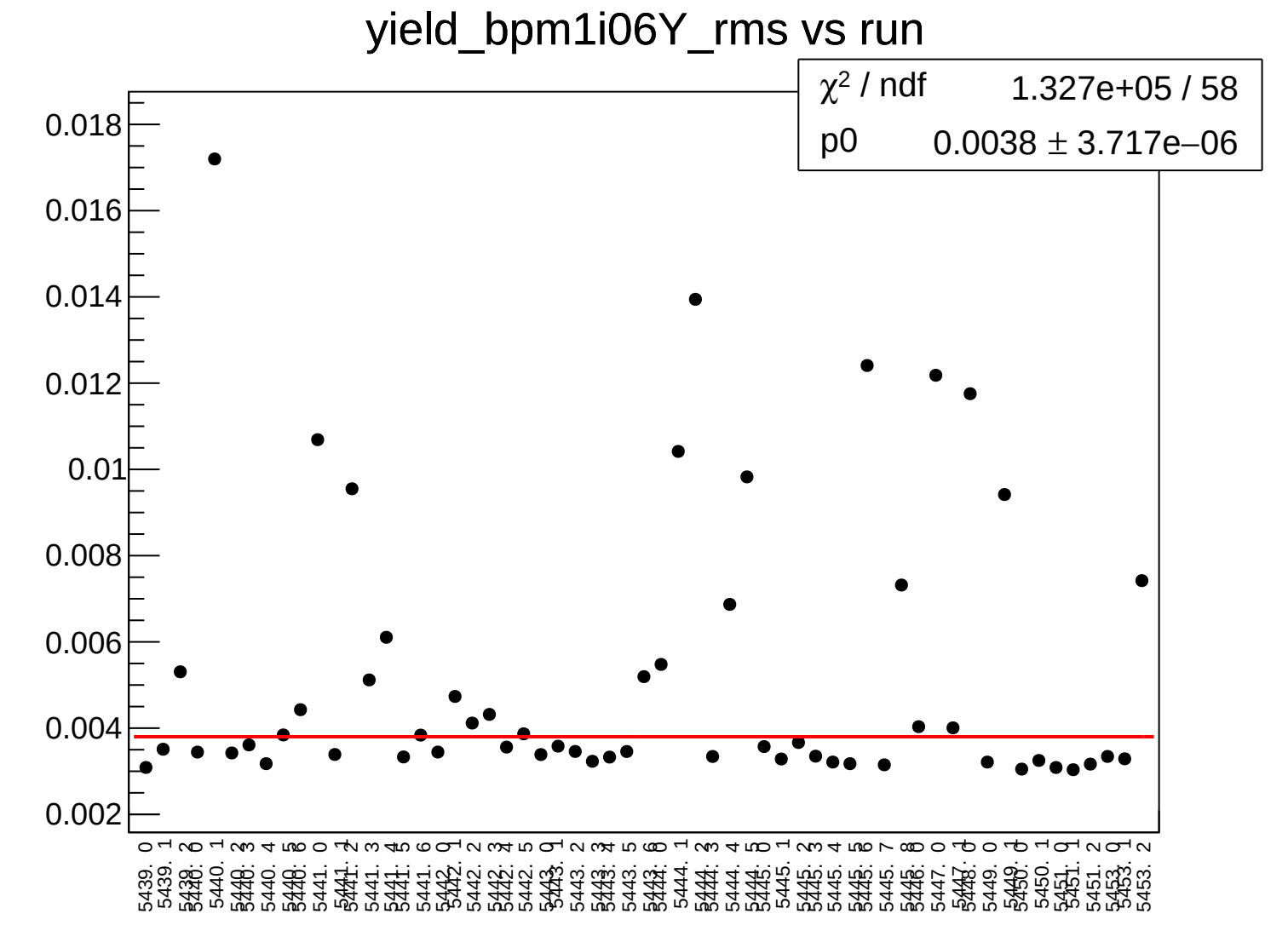

yield_bpm1i06X_mean vs run
χ² / ndf 1.19e+06 / 58
p0 0.8732 ± 1.908e−05
pull
Entries 59
Mean −4918
Std Dev 4947

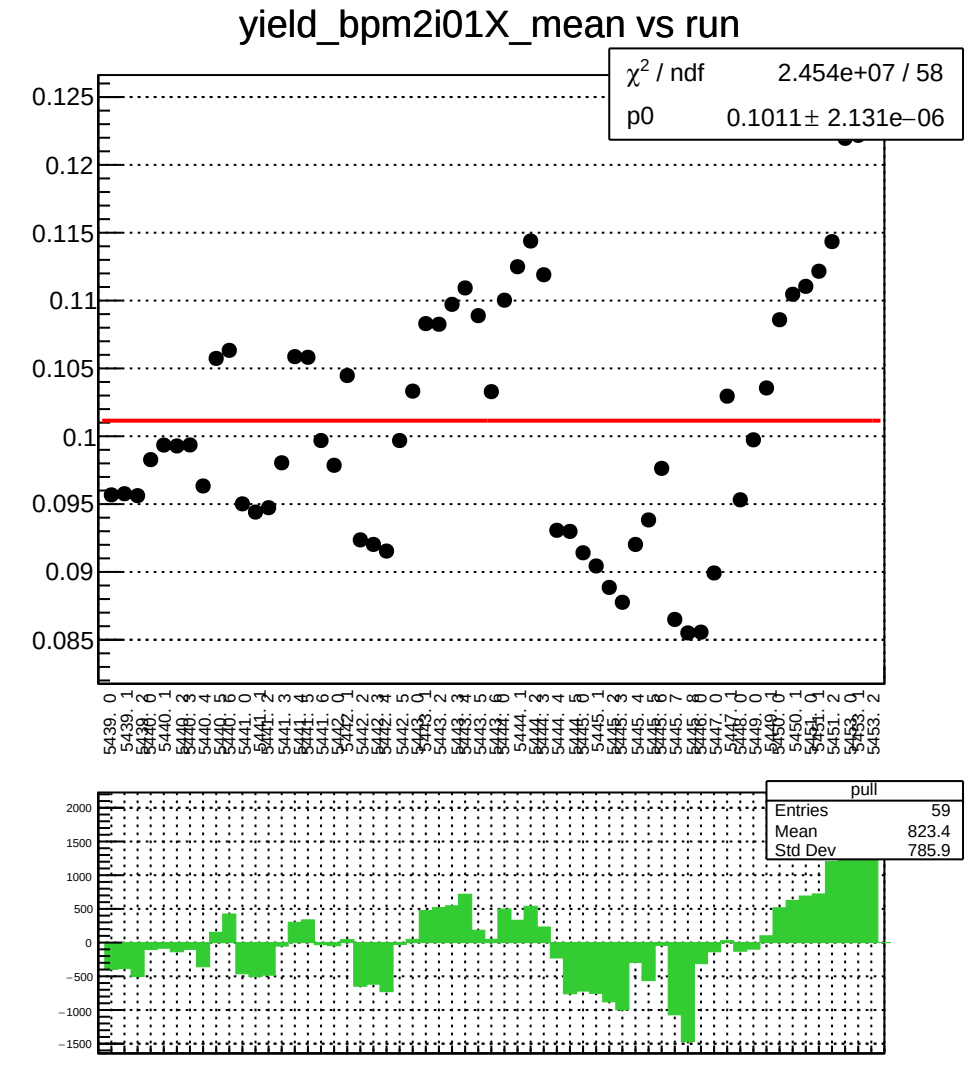

pull1D
Entries 59
Mean −5.477
Std Dev 1.607

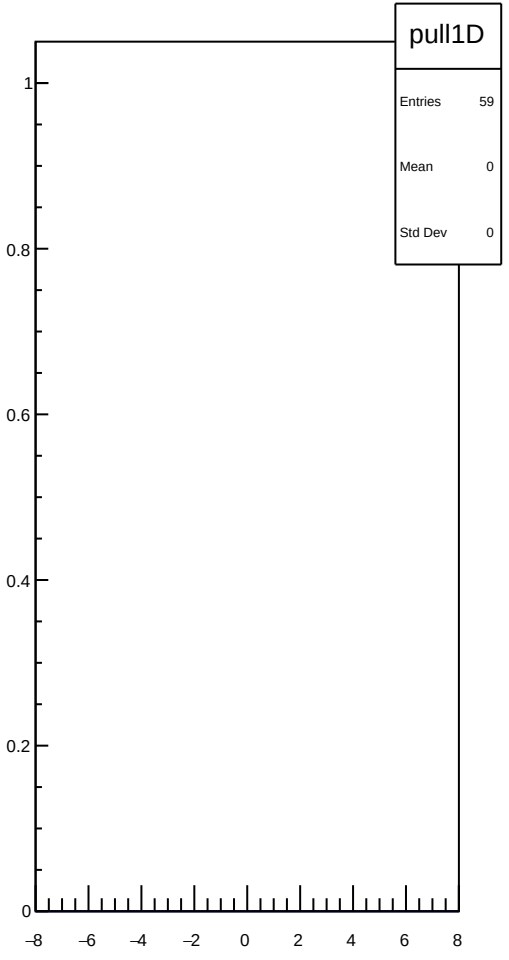

yield_bpm1i06X_rms vs run
χ² / ndf 4734 / 58
p0 0.01461 ± 1.349e–05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

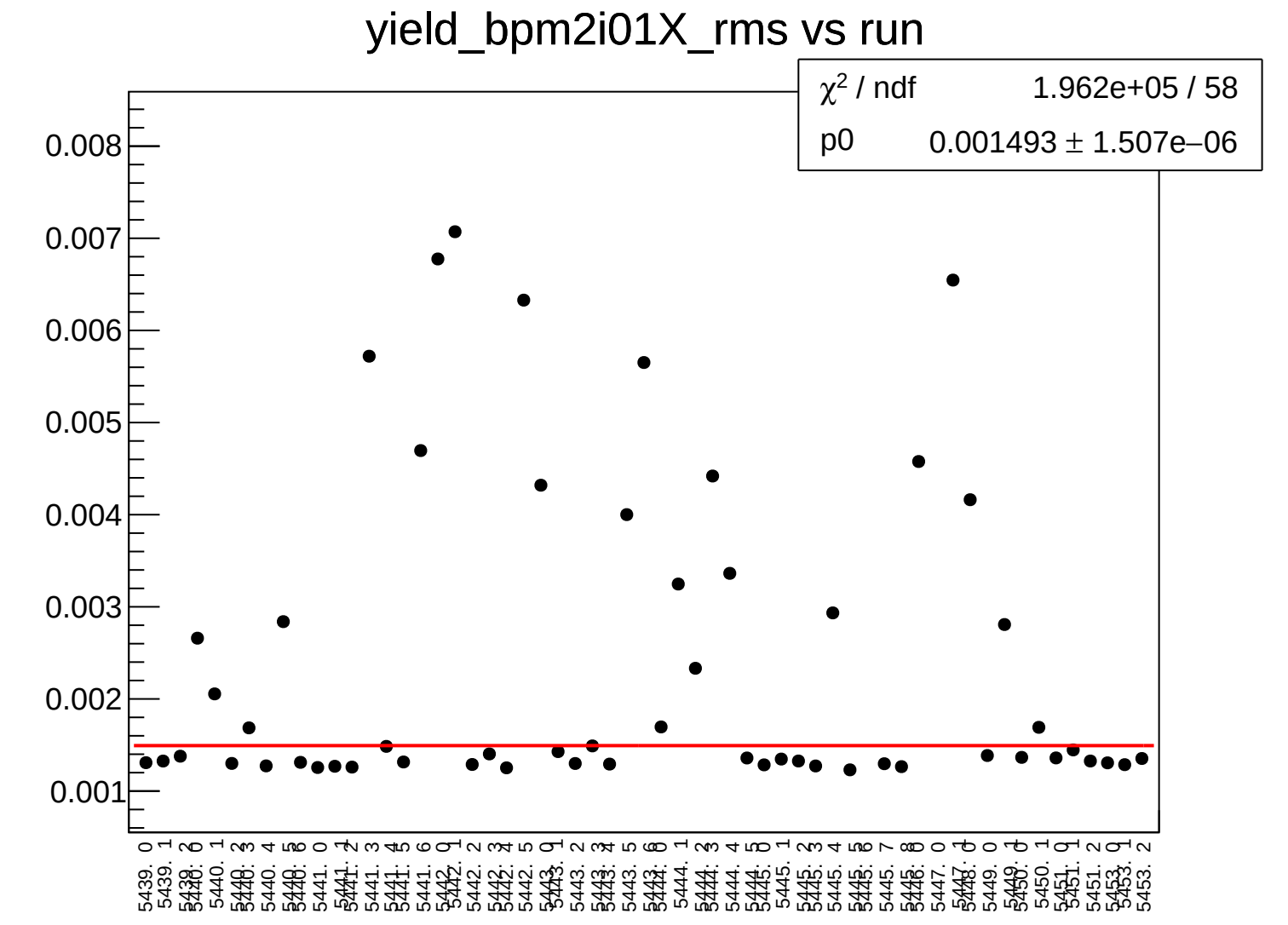

yield_bpm1i06Y_mean vs run
χ² / ndf 3.201e+07 / 58
p0 −0.5053 ± 5.257e−06
−0.46
−0.48
−0.5
−0.52
−0.54
−0.56
pull
Entries 59
Mean −184.3
Std Dev 214.6
1500
1000
500
0
−500
−1000
−1500
−2000

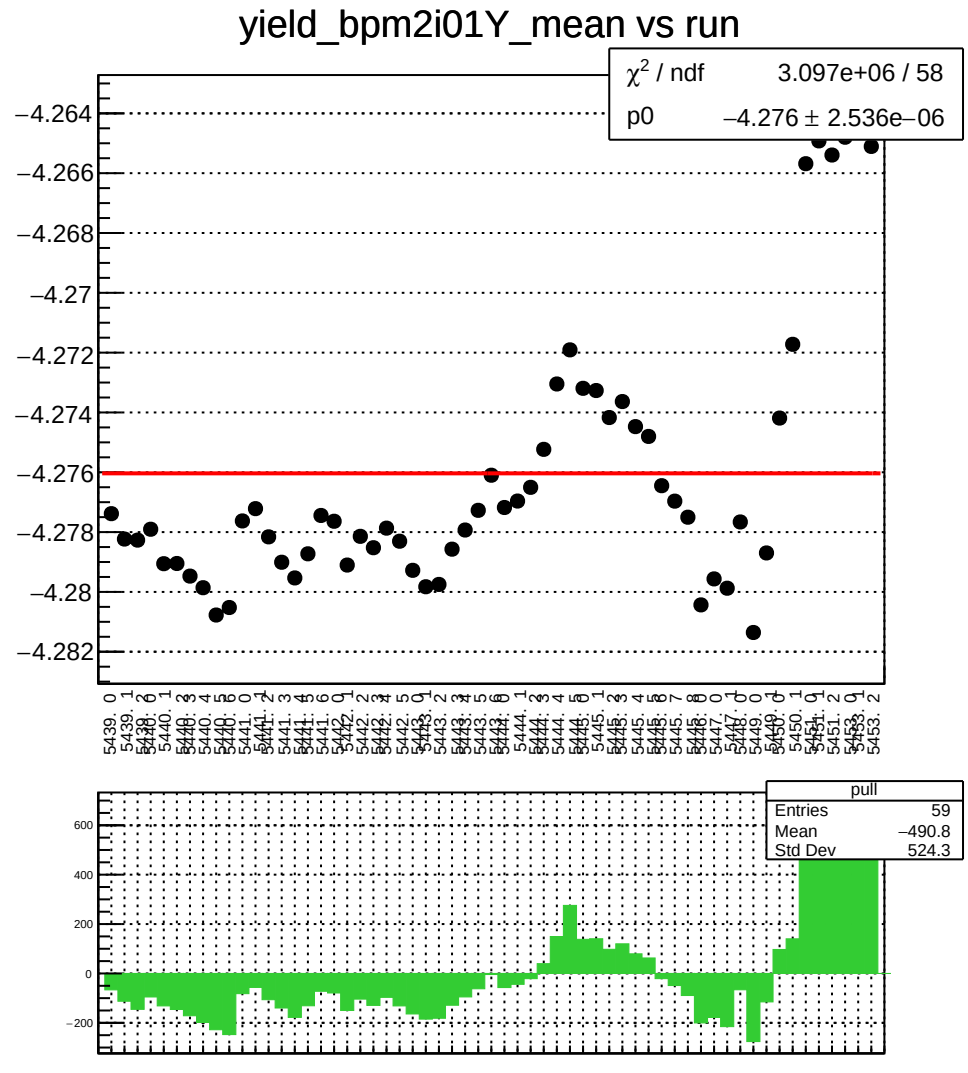

pull1D
Entries 59
Mean 0.5407
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

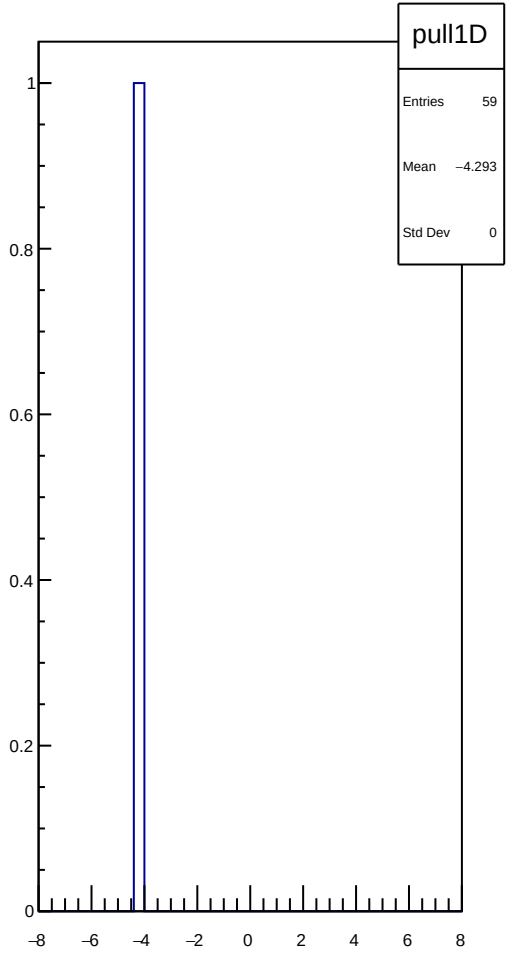

yield_bpm1i06Y_rms vs run
χ² / ndf 1.327e+05 / 58
p0 0.0038 ± 3.717e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

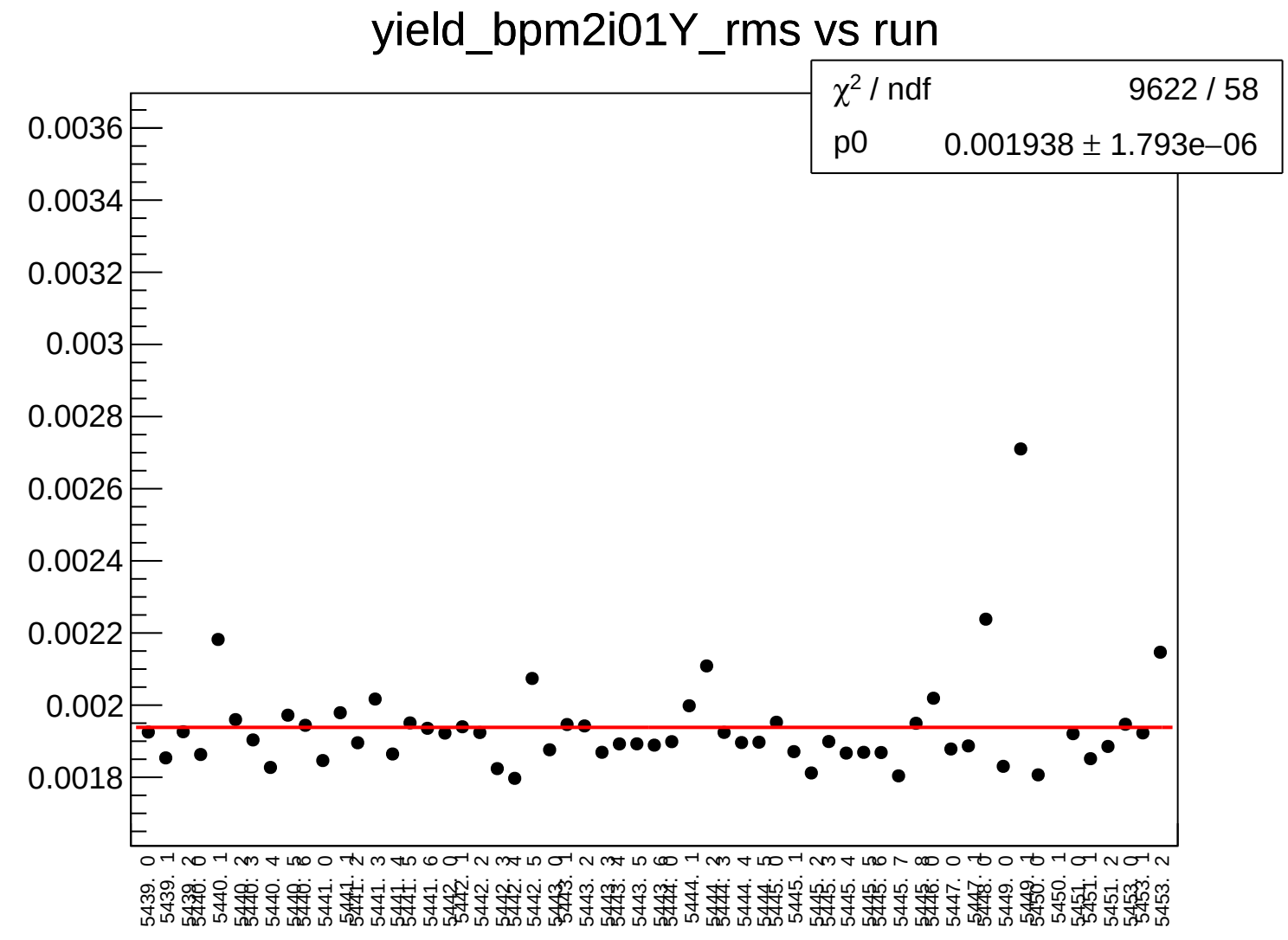

yield_bpm2i01X_mean vs run
χ² / ndf 2.454e+07 / 58
p0 0.1011 ± 2.131e−06
pull
Entries 59
Mean 823.4
Std Dev 785.9

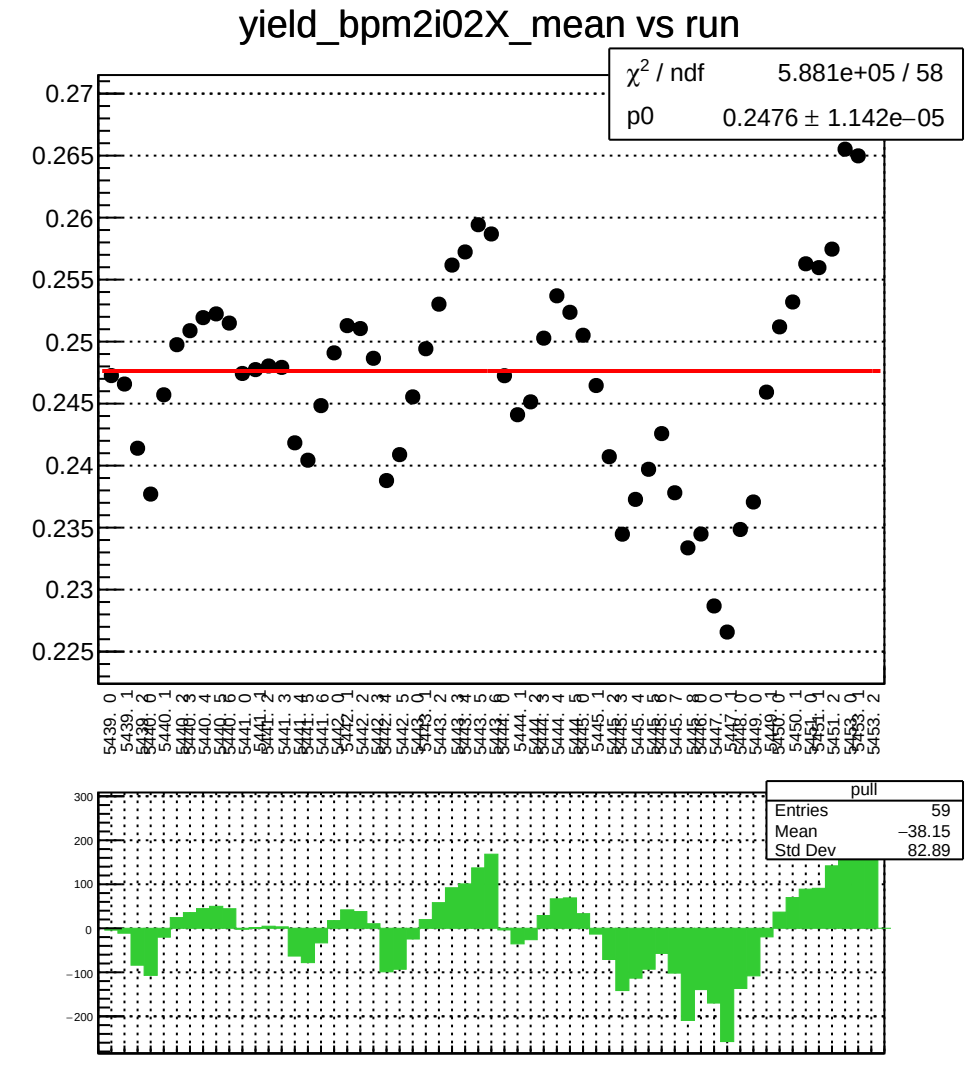

pull1D
Entries 59
Mean 0
Std Dev 0

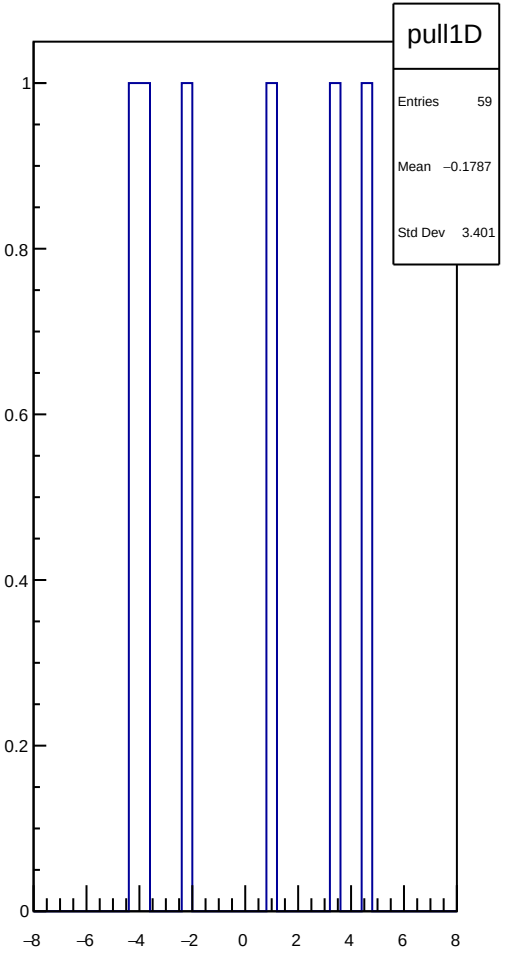

yield_bpm2i01X_rms vs run
χ² / ndf 1.962e+05 / 58
p0 0.001493 ± 1.507e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

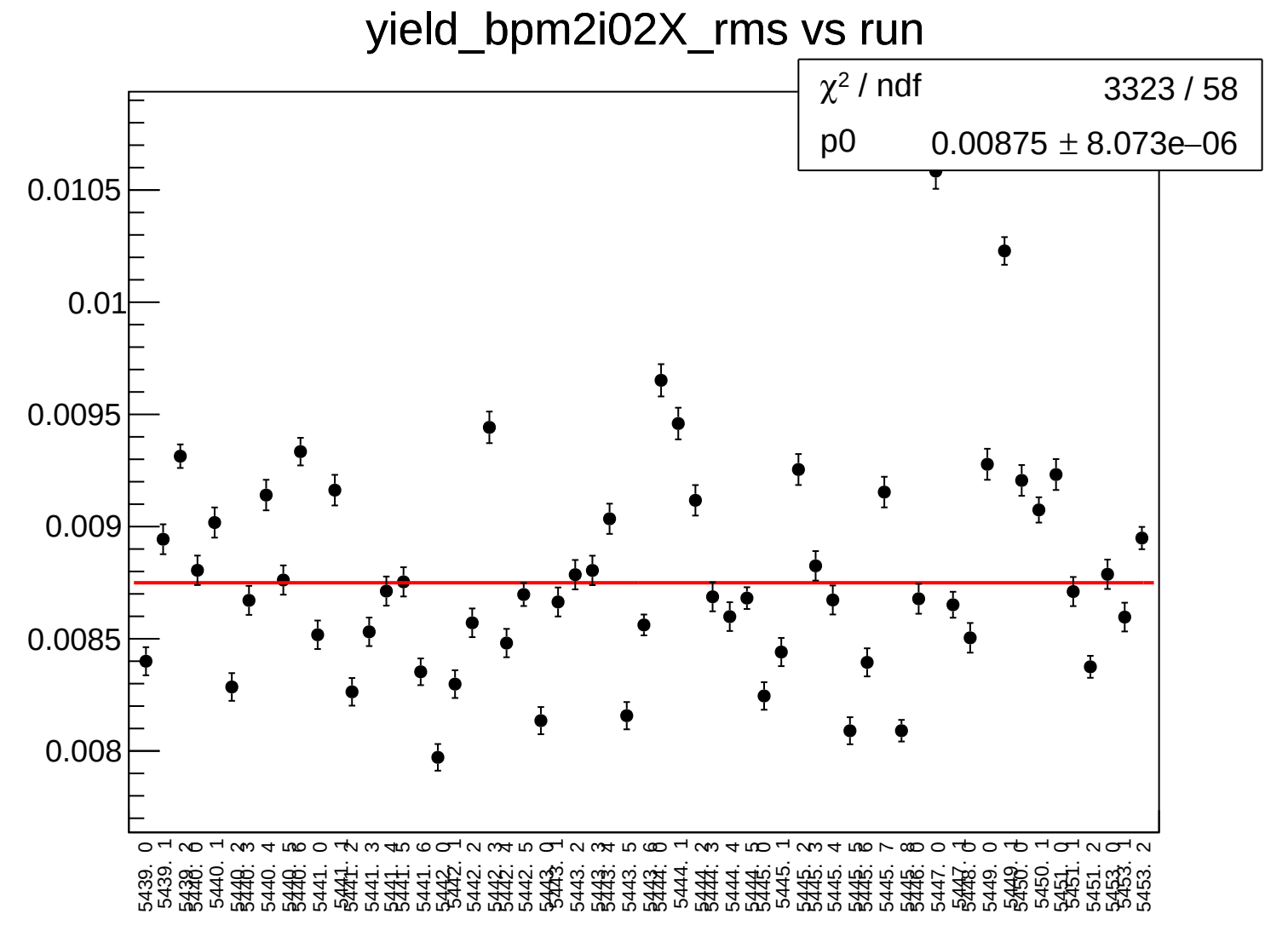

yield_bpm2i01Y_mean vs run
χ² / ndf 3.097e+06 / 58
p0 −4.276 ± 2.536e−06
−4.264
−4.266
−4.268
−4.27
−4.272
−4.274
−4.276
−4.278
−4.28
−4.282
pull
Entries 59
Mean −490.8
Std Dev 524.3
600
400
200
0
−200

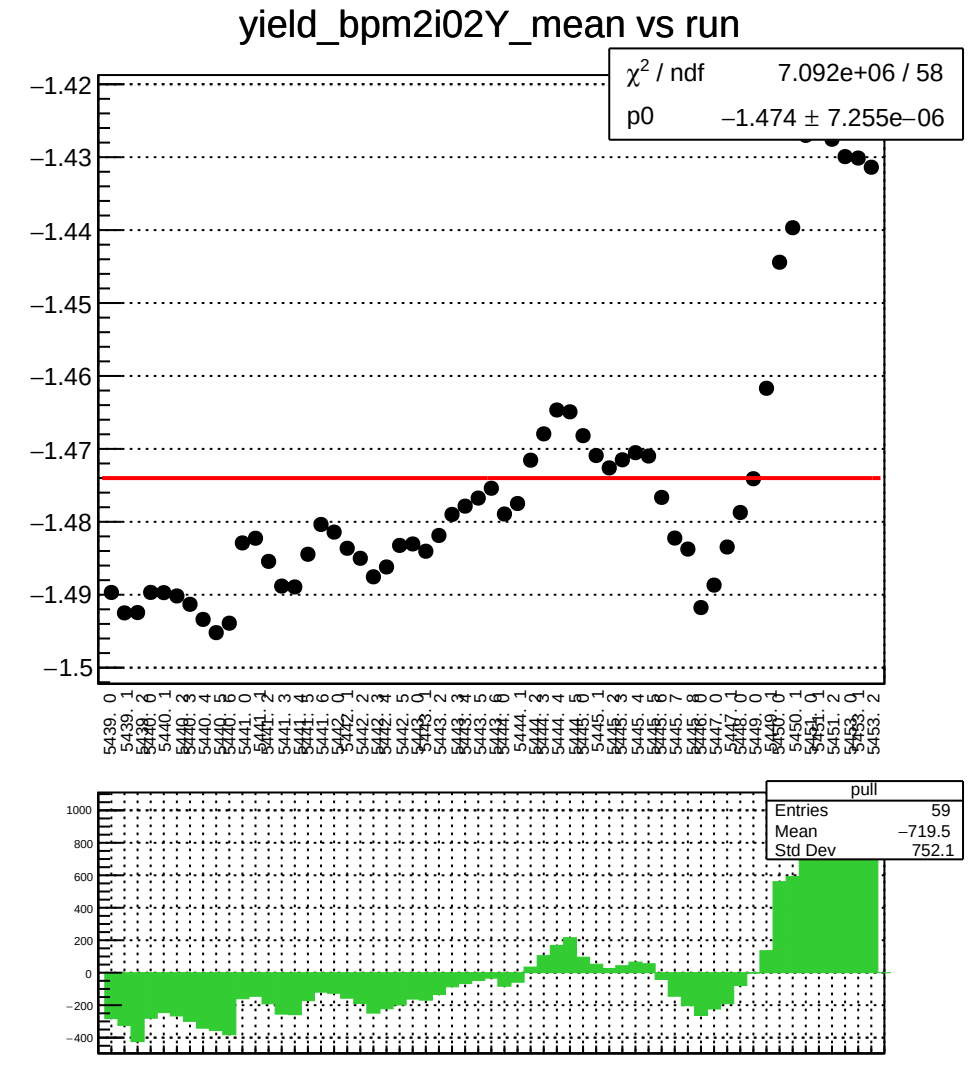

pull1D
Entries 59
Mean −4.293
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

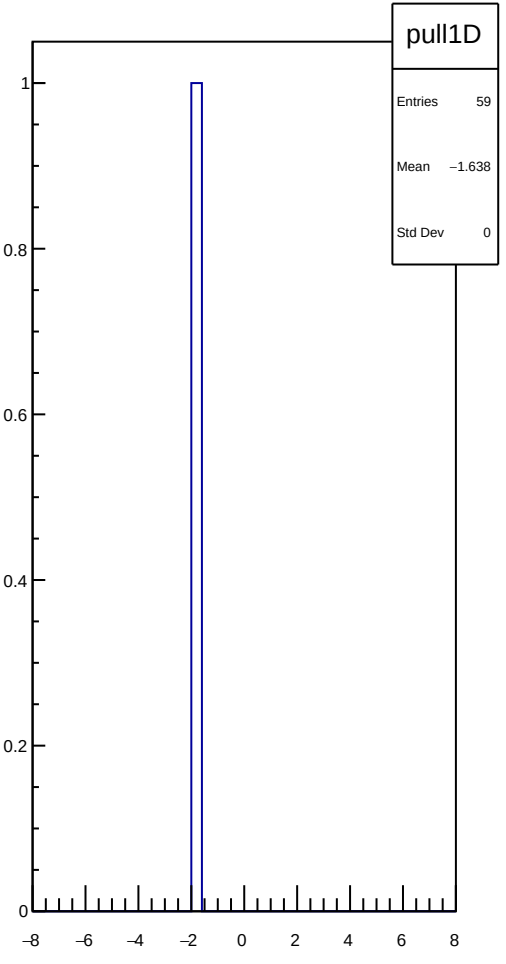

yield_bpm2i01Y_rms vs run
χ² / ndf 9622 / 58
p0 0.001938 ± 1.793e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

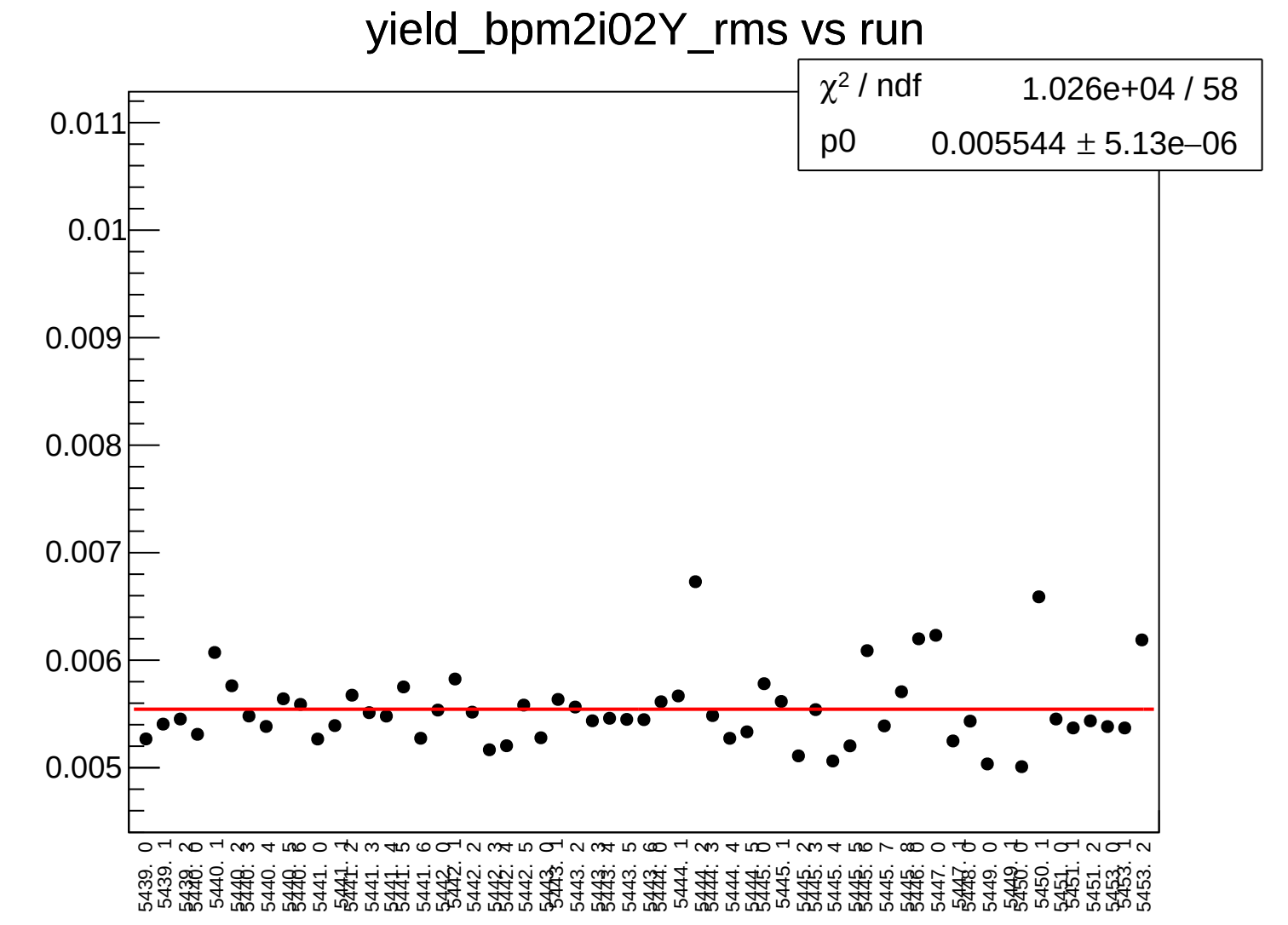

yield_bpm2i02X_mean vs run
χ² / ndf 5.881e+05 / 58
p0 0.2476 ± 1.142e−05
pull
Entries 59
Mean −38.15
Std Dev 82.89

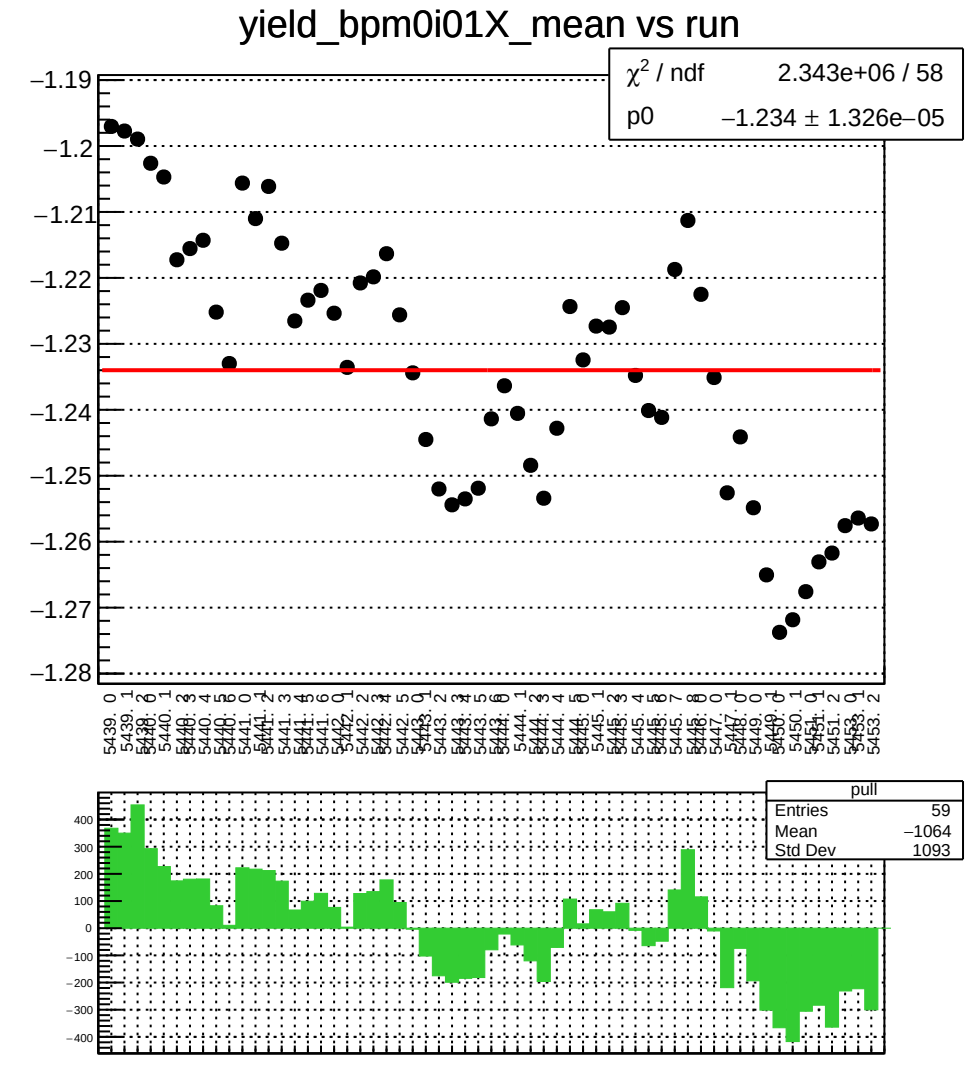

pull1D
Entries 59
Mean −0.1787
Std Dev 3.401

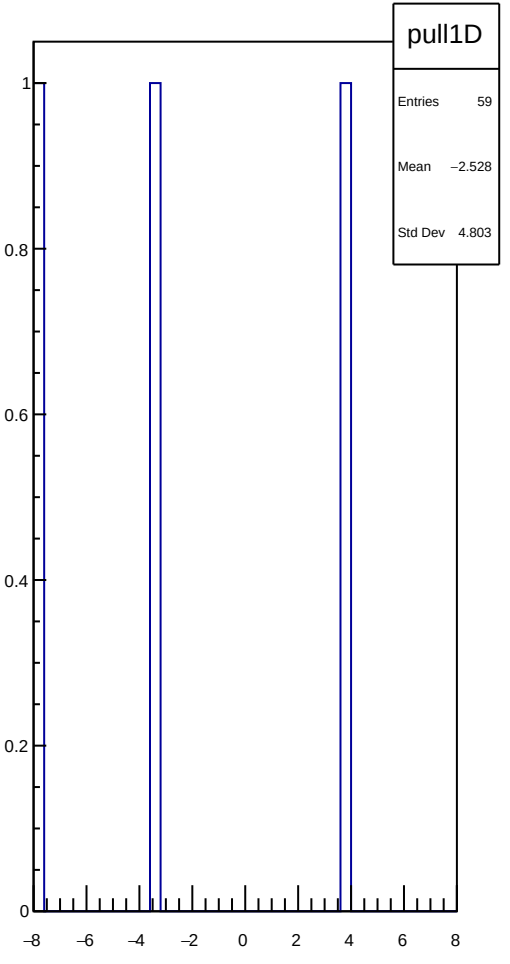

yield_bpm2i02X_rms vs run
χ² / ndf 3323 / 58
p0 0.00875 ± 8.073e–06
0.0105
0.01
0.0095
0.009
0.0085
0.008

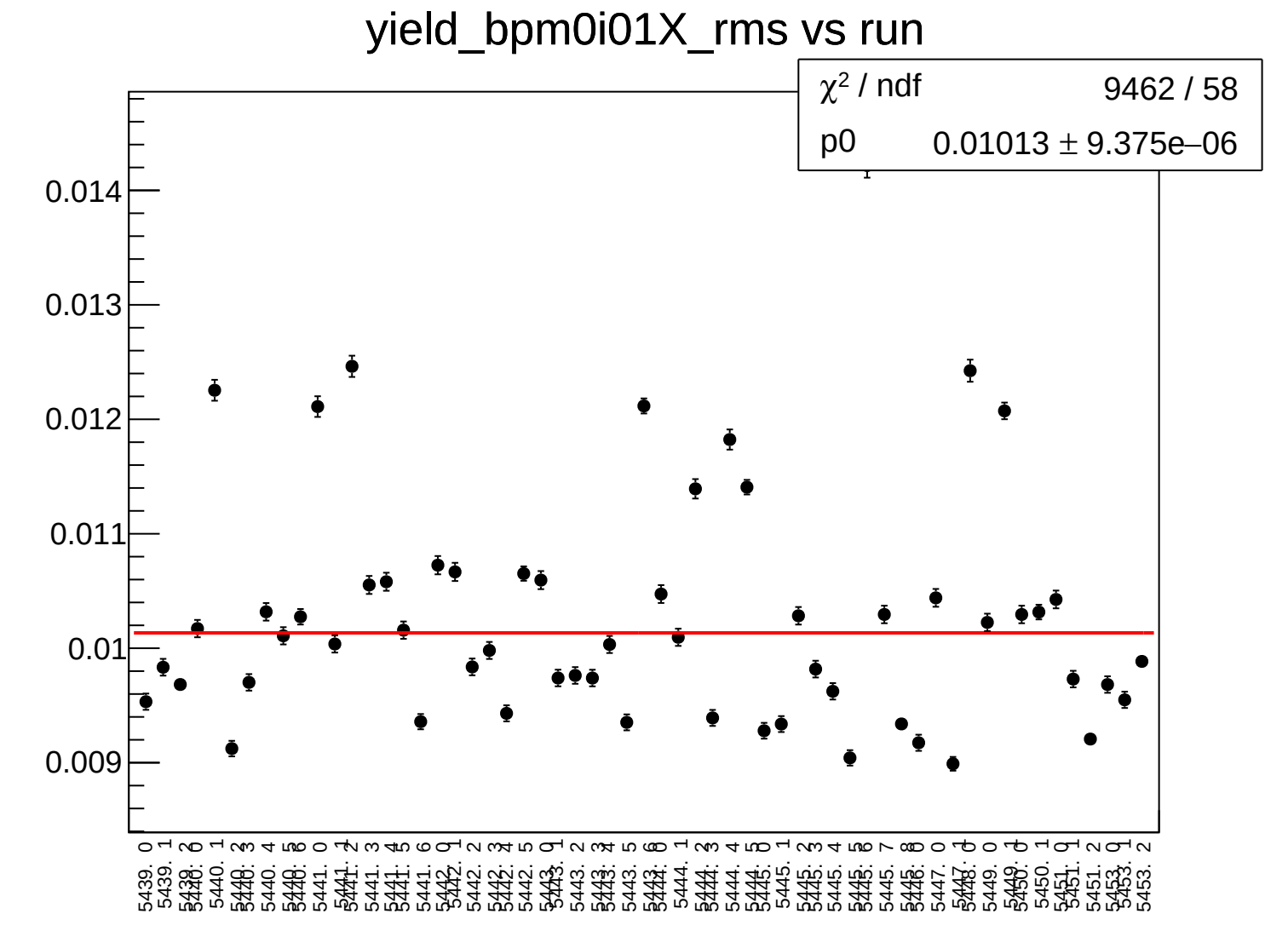

yield_bpm2i02Y_mean vs run
χ² / ndf 7.092e+06 / 58
p0 −1.474 ± 7.255e−06
−1.42
−1.43
−1.44
−1.45
−1.46
−1.47
−1.48
−1.49
−1.5
pull
Entries 59
Mean −719.5
Std Dev 752.1
1000
800
600
400
200
0
−200
−400

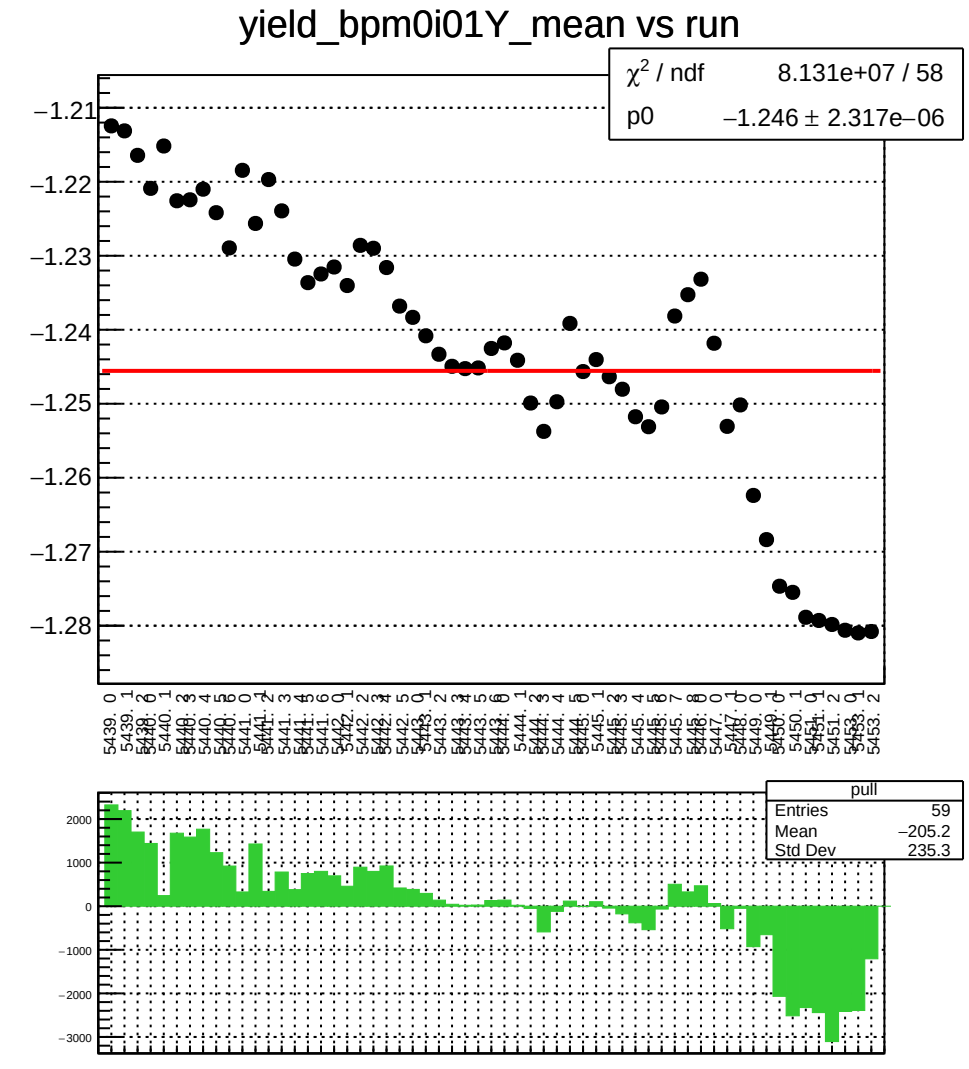

pull1D
Entries 59
Mean −1.638
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

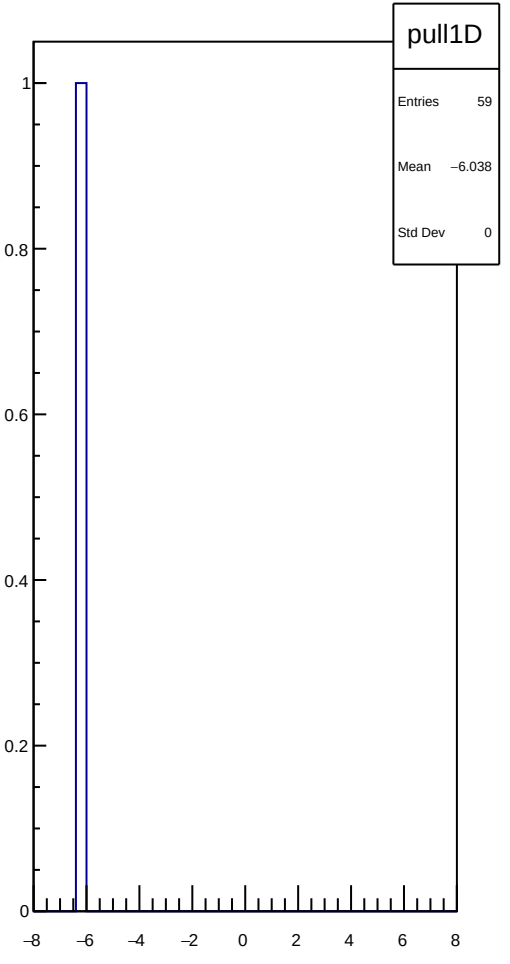

yield_bpm2i02Y_rms vs run
χ² / ndf 1.026e+04 / 58
p0 0.005544 ± 5.13e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

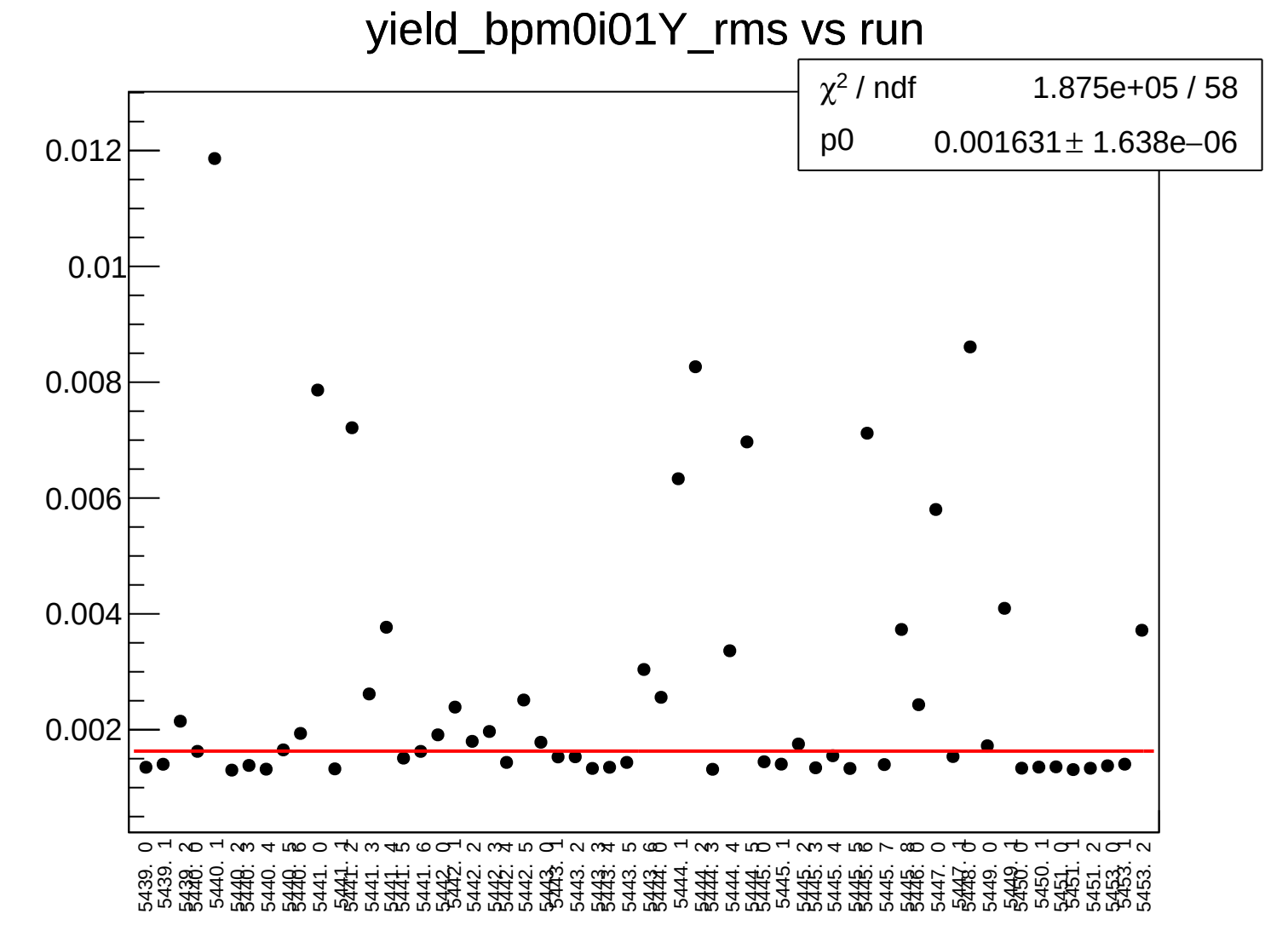

yield_bpm0i01X_mean vs run
χ² / ndf 2.343e+06 / 58
p0 −1.234 ± 1.326e−05
−1.19
−1.2
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
−1.28
pull
Entries 59
Mean −1064
Std Dev 1093
400
300
200
100
0
−100
−200
−300
−400

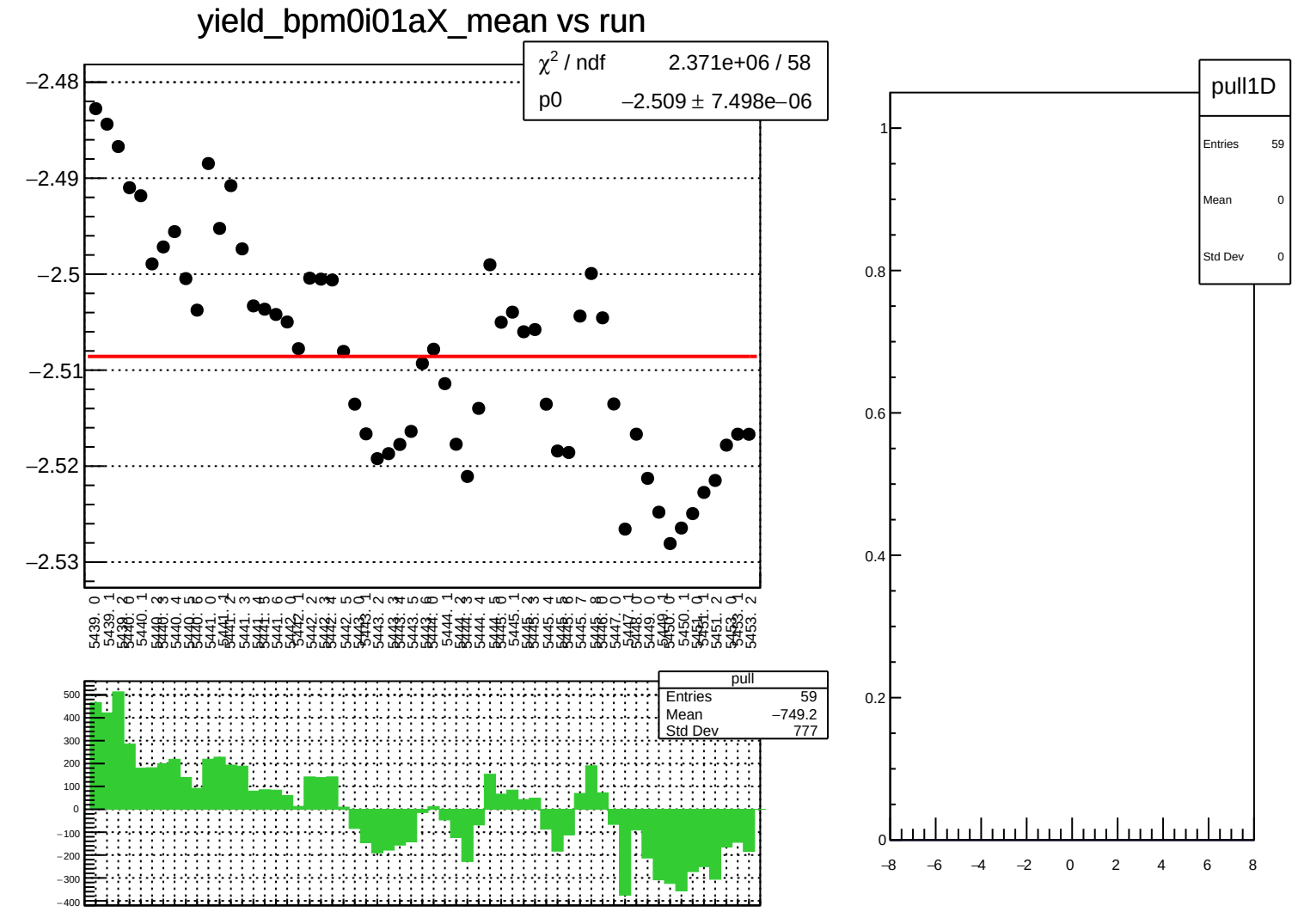

pull1D
Entries 59
Mean −2.528
Std Dev 4.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

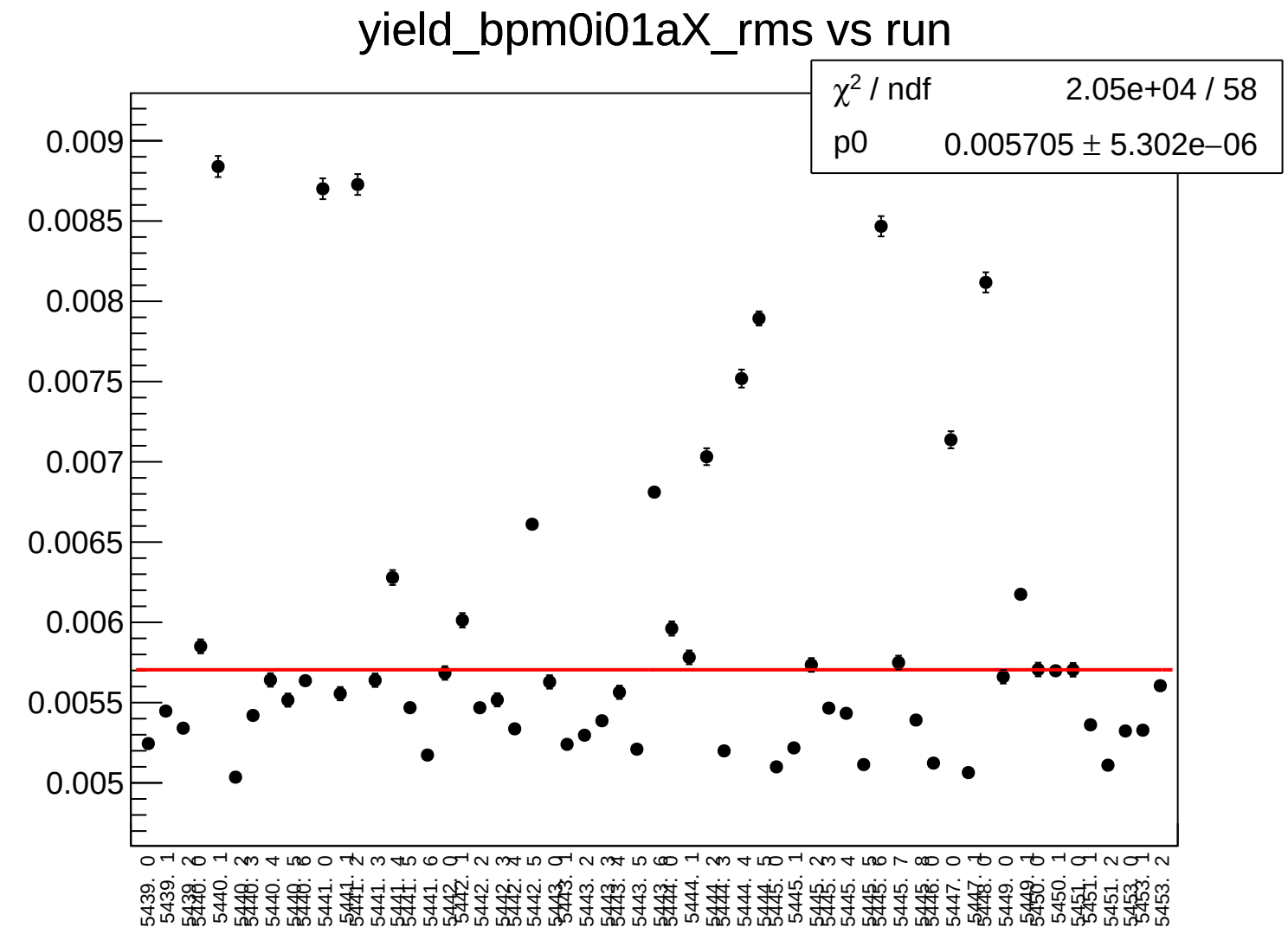

yield_bpm0i01X_rms vs run
χ² / ndf 9462 / 58
p0 0.01013 ± 9.375e−06
0.014
0.013
0.012
0.011
0.01
0.009

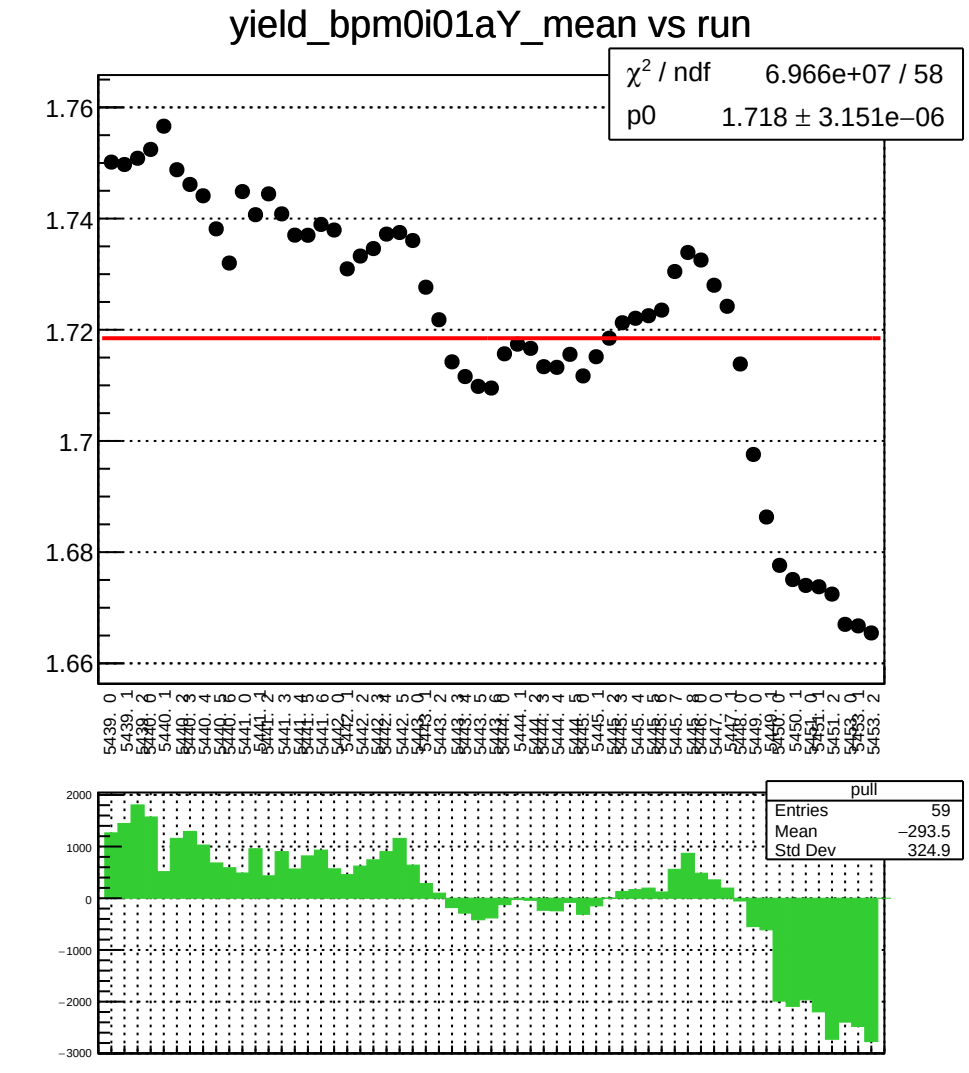

yield_bpm0i01Y_mean vs run
χ² / ndf 8.131e+07 / 58
p0 −1.246 ± 2.317e−06
−1.21
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
−1.28
pull
Entries 59
Mean −205.2
Std Dev 235.3
2000
1000
0
−1000
−2000
−3000

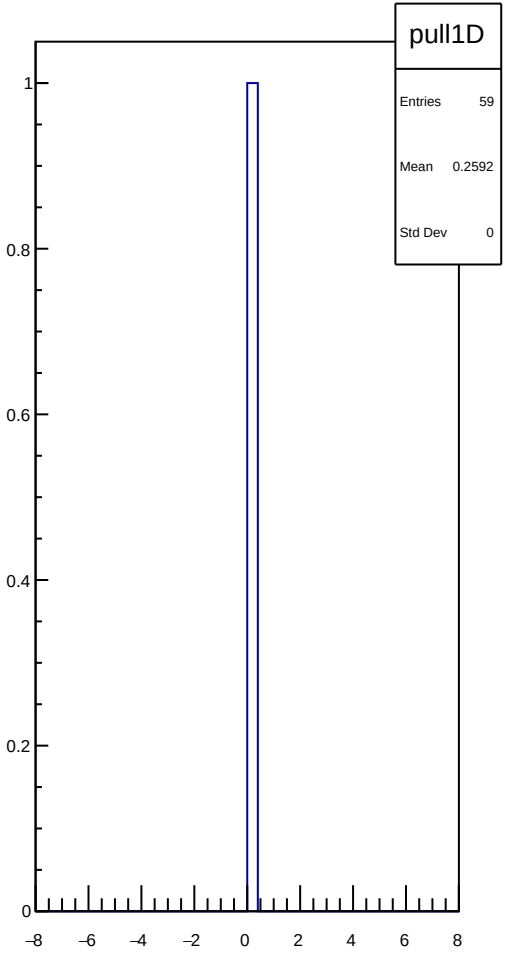

pull1D
Entries 59
Mean −6.038
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

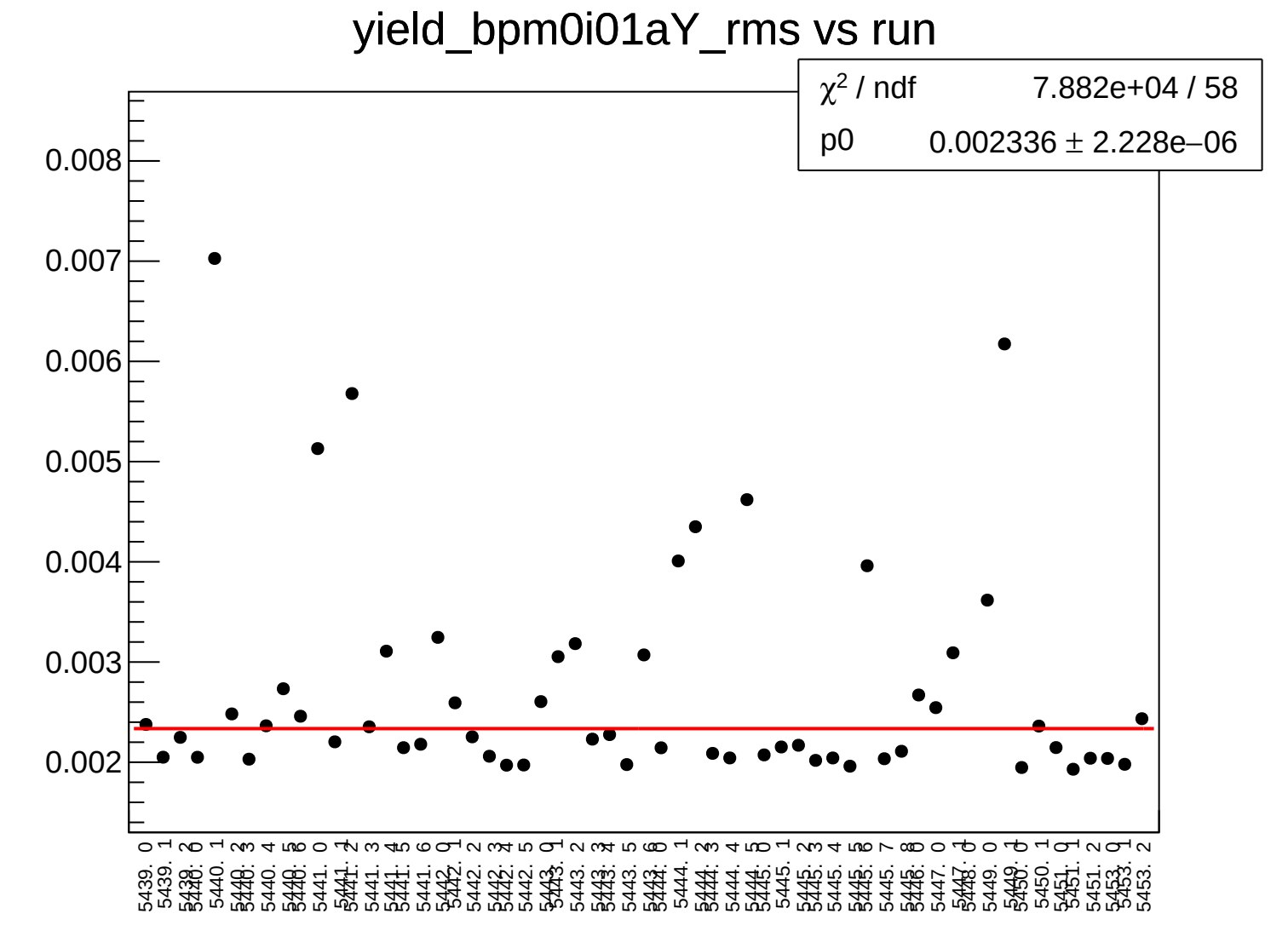

yield_bpm0i01Y_rms vs run
χ² / ndf 1.875e+05 / 58
p0 0.001631 ± 1.638e−06
0.012
0.01
0.008
0.006
0.004
0.002

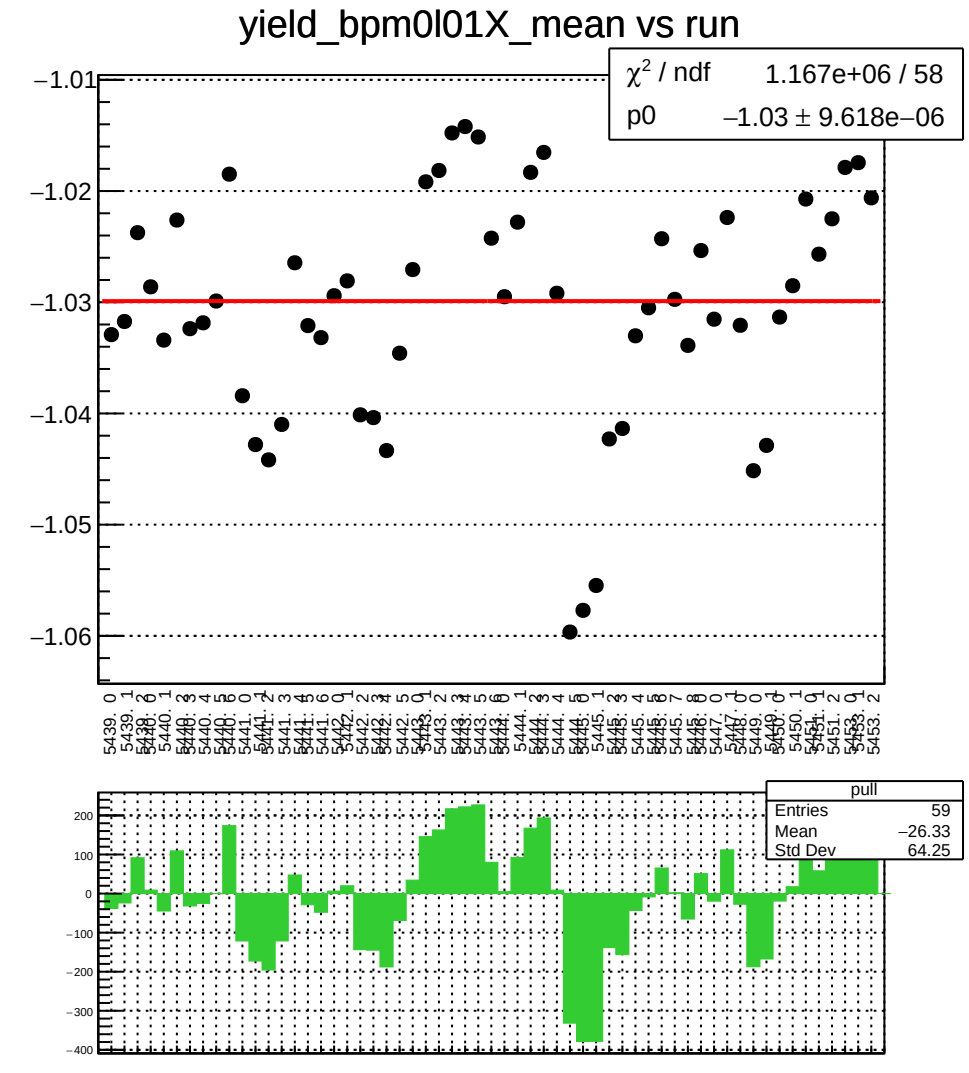

yield_bpm0i01aX_mean vs run
χ² / ndf 2.371e+06 / 58
p0 −2.509 ± 7.498e−06
−2.48
−2.49
−2.5
−2.51
−2.52
−2.53
pull
Entries 59
Mean −749.2
Std Dev 777
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

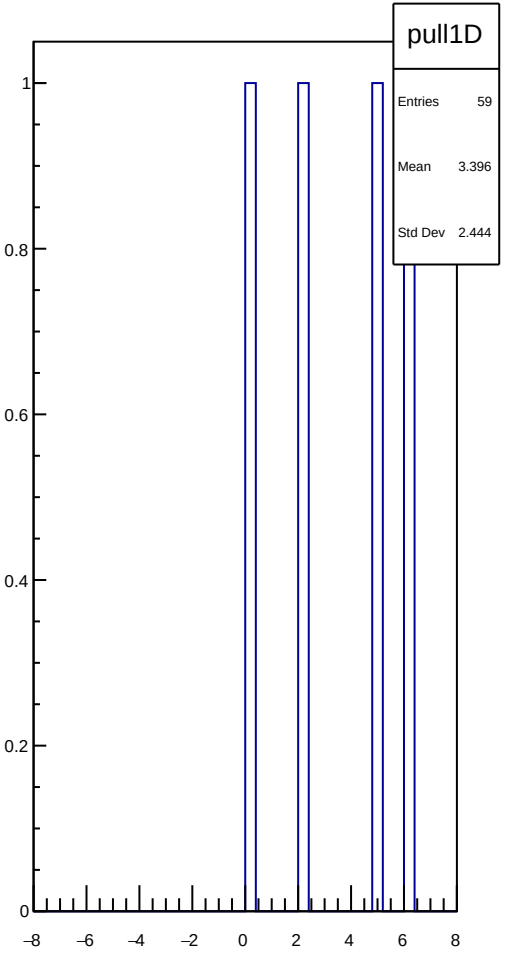

yield_bpm0i01aX_rms vs run
χ² / ndf 2.05e+04 / 58
p0 0.005705 ± 5.302e−06
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

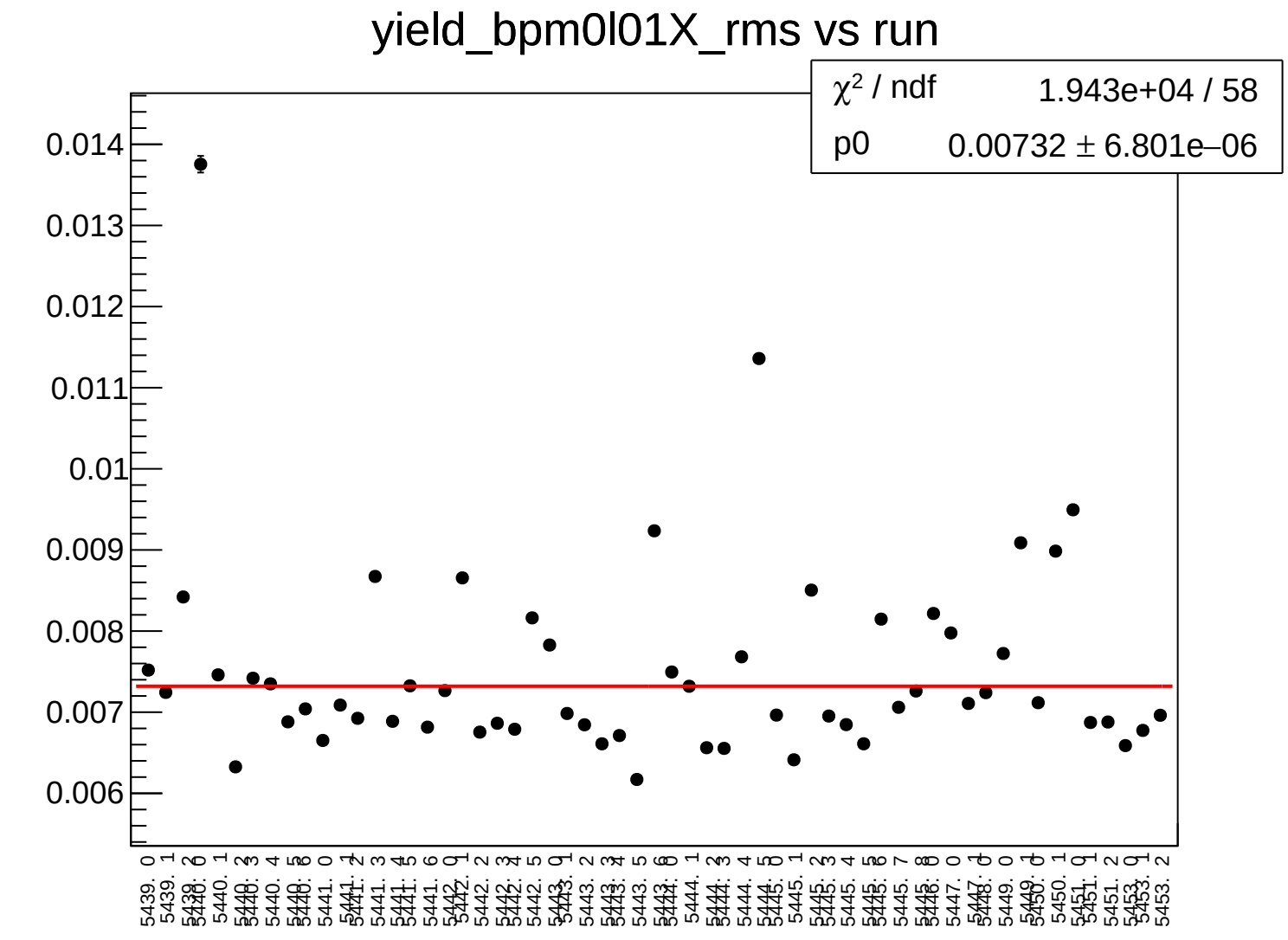

yield_bpm0i01aY_mean vs run
χ² / ndf 6.966e+07 / 58
p0 1.718 ± 3.151e−06
1.76
1.74
1.72
1.7
1.68
1.66
pull
Entries 59
Mean −293.5
Std Dev 324.9
2000
1000
0
−1000
−2000
−3000

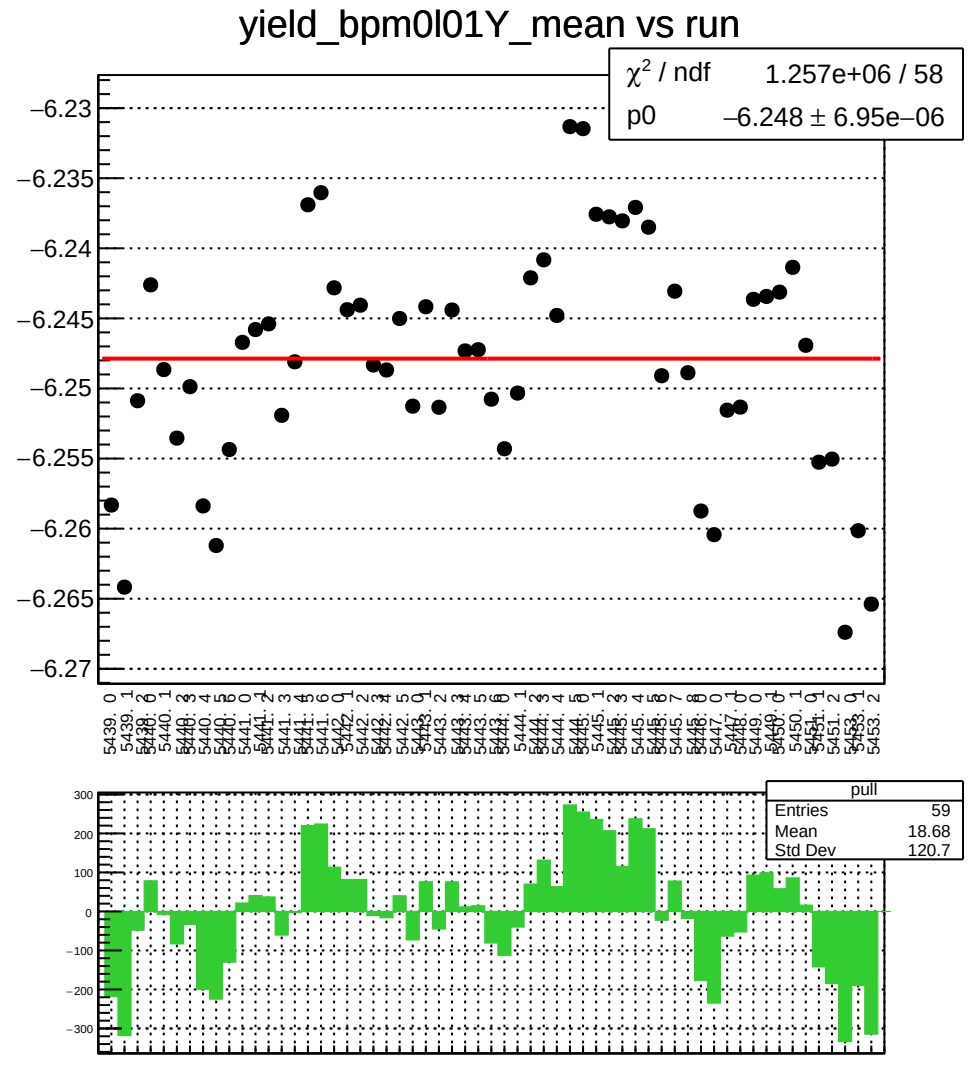

pull1D
Entries 59
Mean 0.2592
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

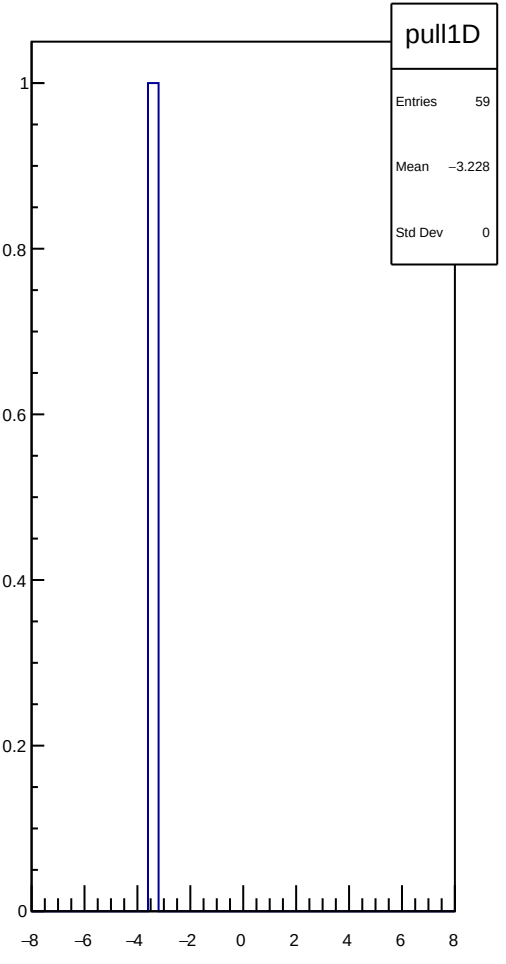

yield_bpm0i01aY_rms vs run
χ² / ndf 7.882e+04 / 58
p0 0.002336 ± 2.228e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002

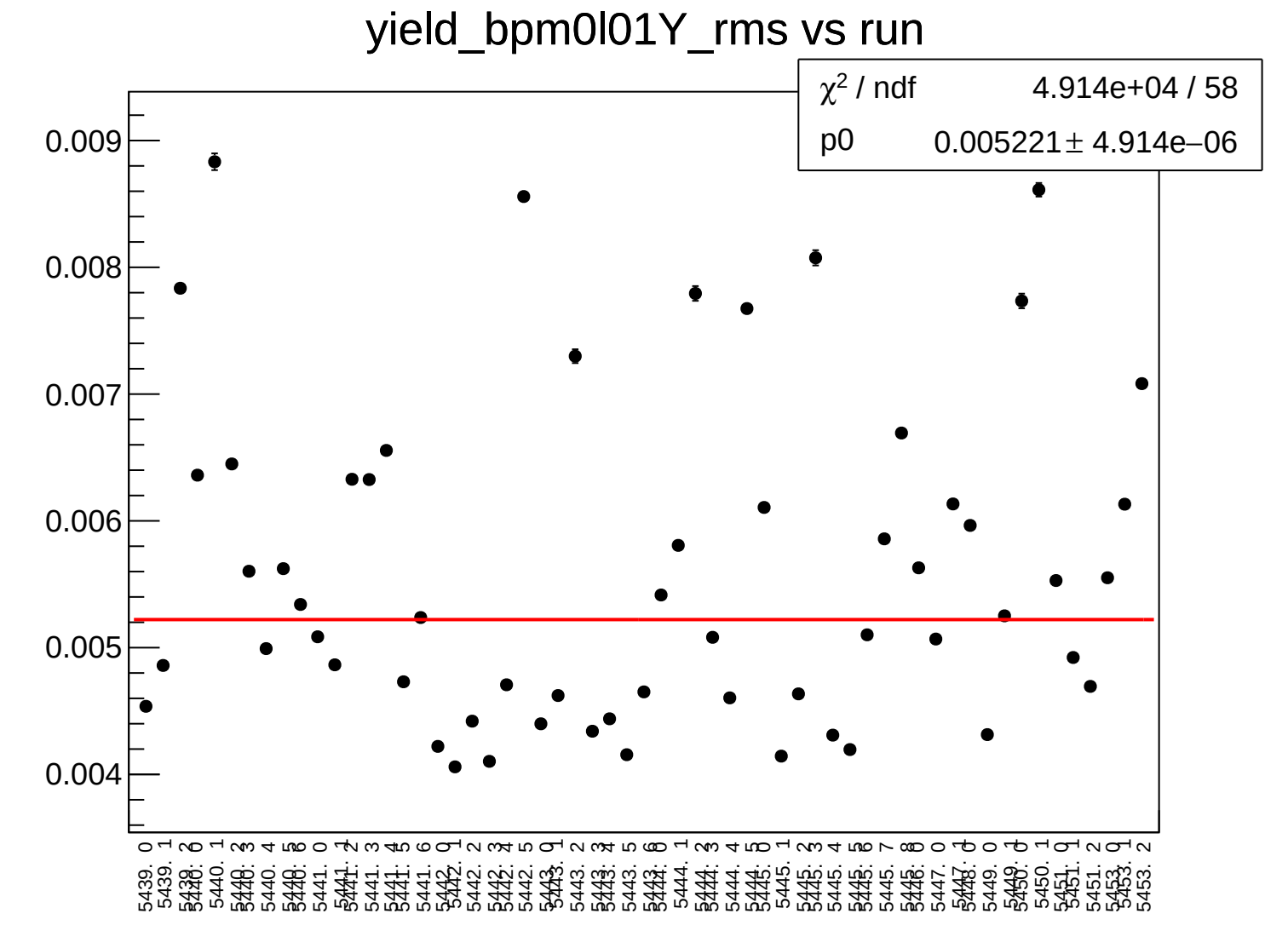

yield_bpm0l01X_mean vs run
χ² / ndf 1.167e+06 / 58
p0 −1.03 ± 9.618e−06
−1.01
−1.02
−1.03
−1.04
−1.05
−1.06
pull
Entries 59
Mean −26.33
Std Dev 64.25
200
100
0
−100
−200
−300
−400

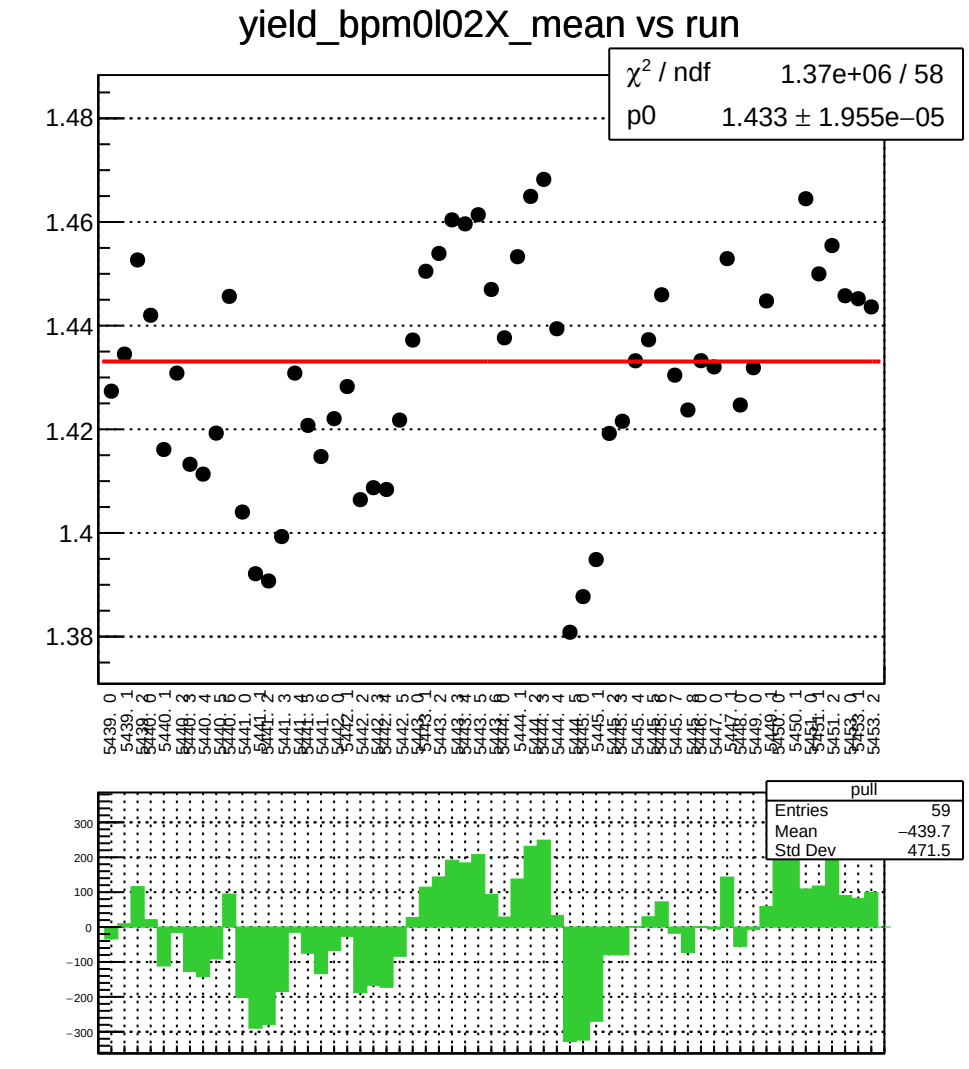

pull1D
Entries 59
Mean 3.396
Std Dev 2.444
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

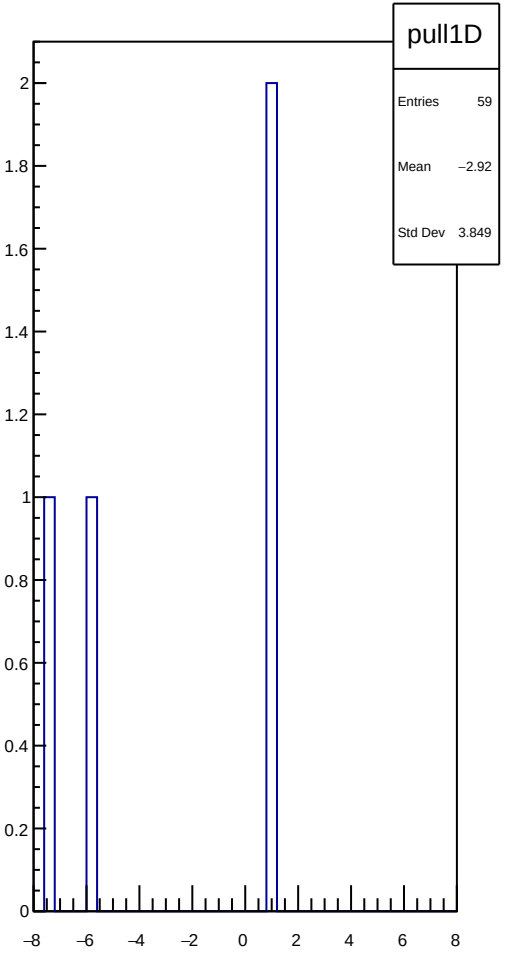

yield_bpm0l01X_rms vs run
$\chi^2$ / ndf 1.943e+04 / 58
p0 0.00732 ± 6.801e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

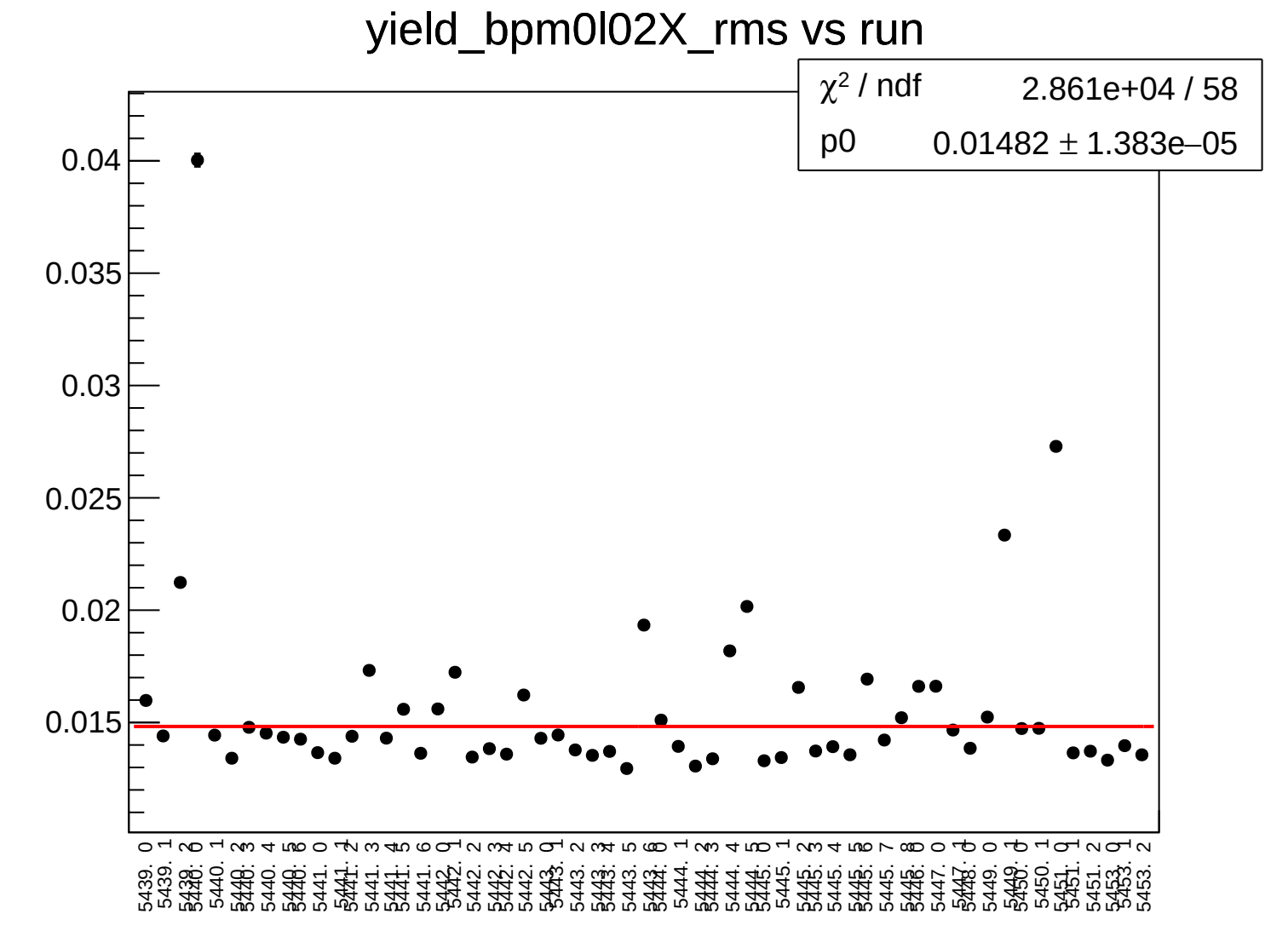

yield_bpm0l01Y_mean vs run
χ² / ndf 1.257e+06 / 58
p0 −6.248 ± 6.95e−06
−6.23
−6.235
−6.24
−6.245
−6.25
−6.255
−6.26
−6.265
−6.27
pull
Entries 59
Mean 18.68
Std Dev 120.7
300
200
100
0
−100
−200
−300

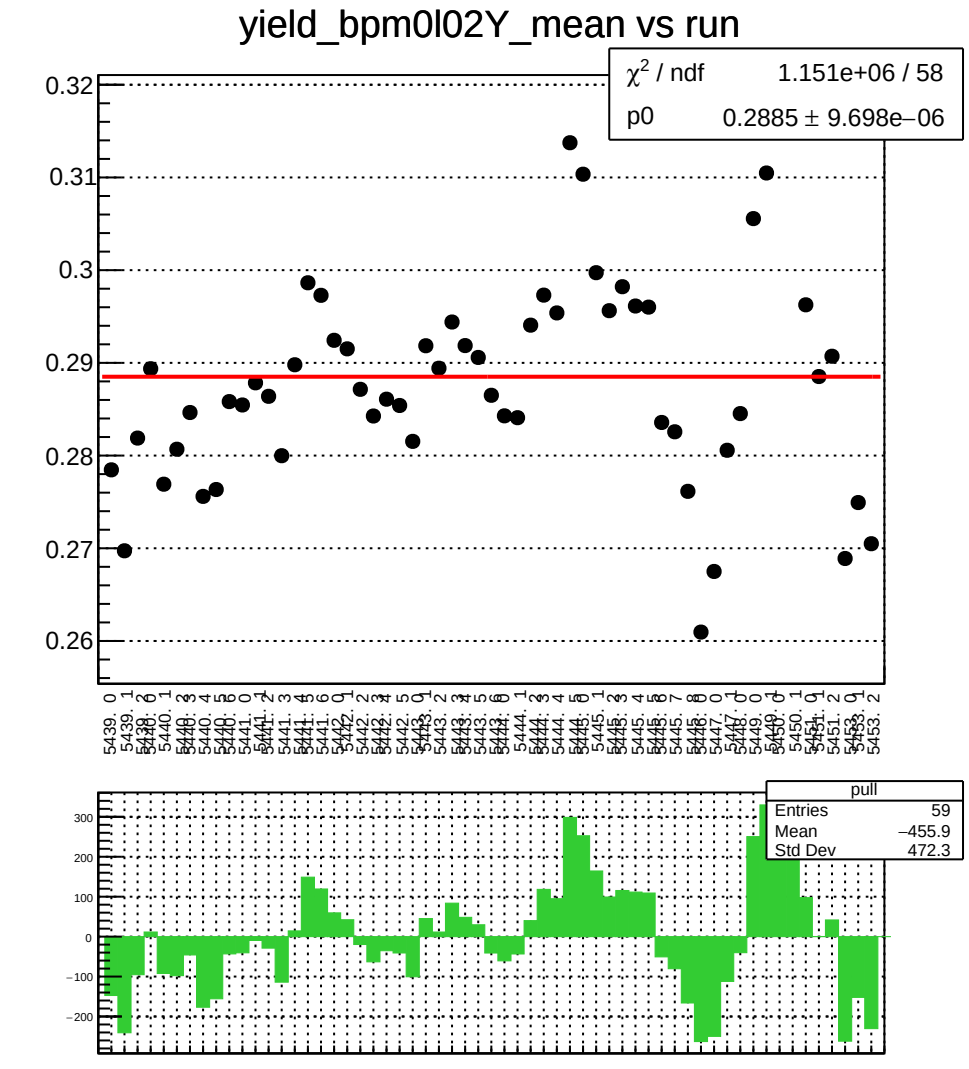

pull1D
Entries 59
Mean −3.228
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

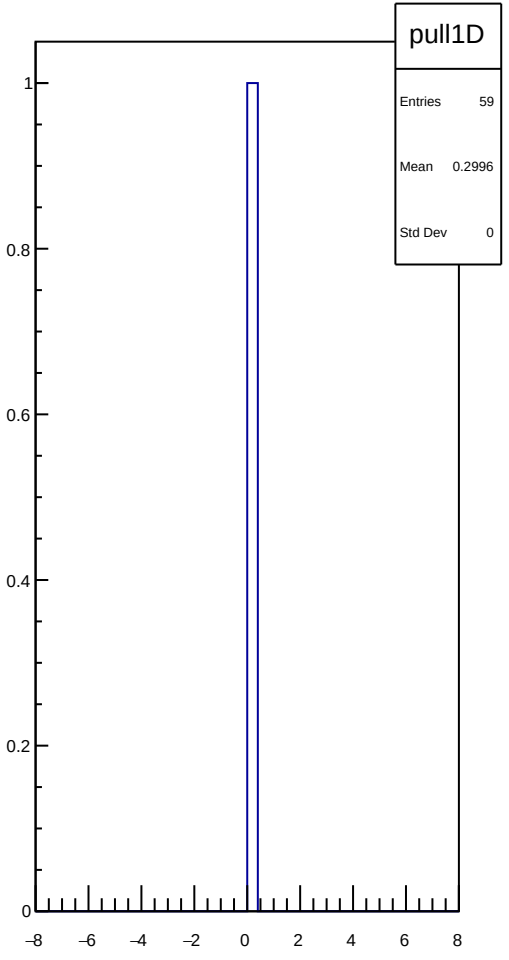

yield_bpm0l01Y_rms vs run
χ² / ndf 4.914e+04 / 58
p0 0.005221 ± 4.914e−06
0.009
0.008
0.007
0.006
0.005
0.004

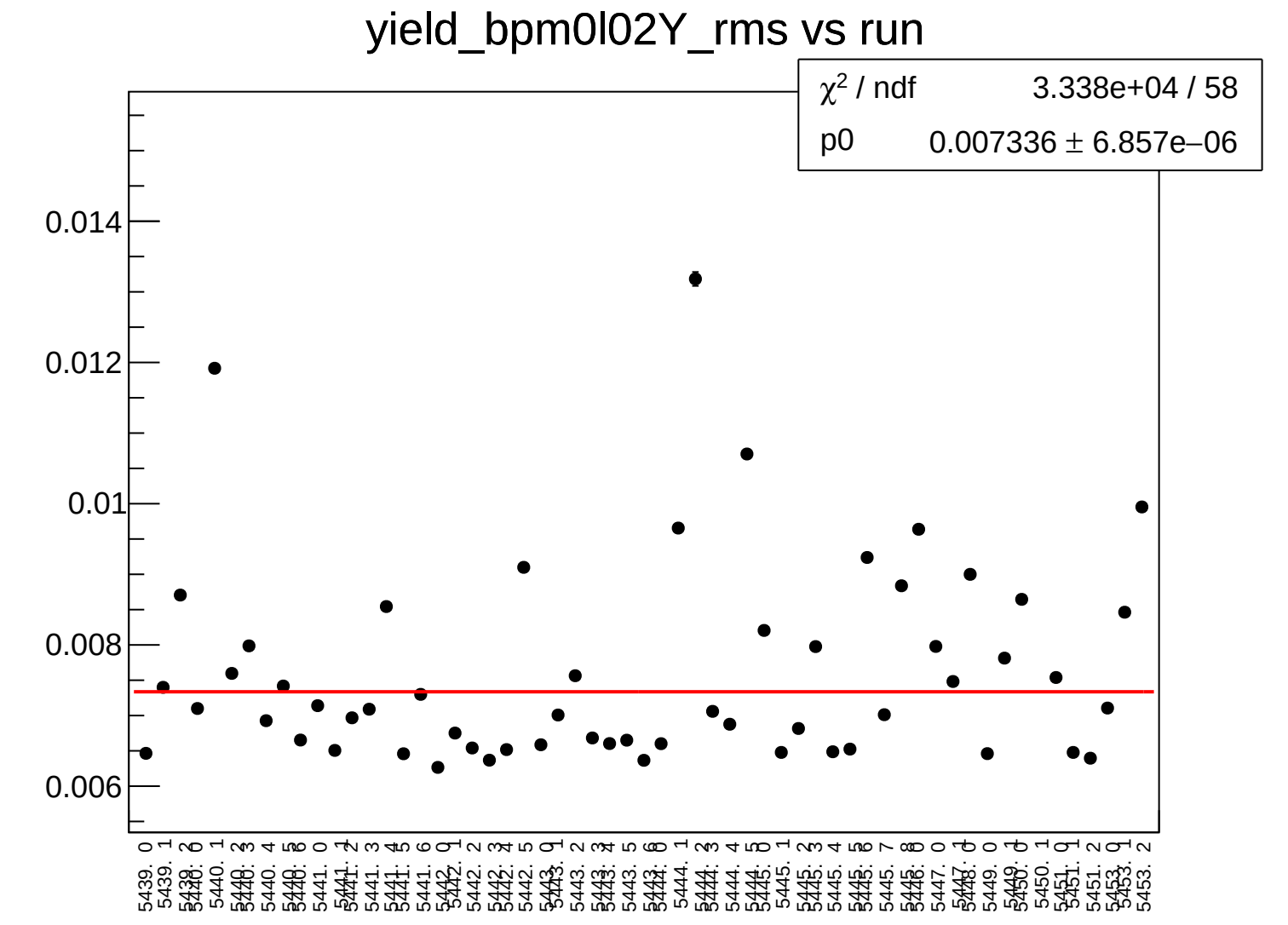

yield_bpm0l02X_mean vs run
χ² / ndf 1.37e+06 / 58
p0 1.433 ± 1.955e−05
1.48
1.46
1.44
1.42
1.4
1.38
pull
Entries 59
Mean −439.7
Std Dev 471.5
300
200
100
0
−100
−200
−300

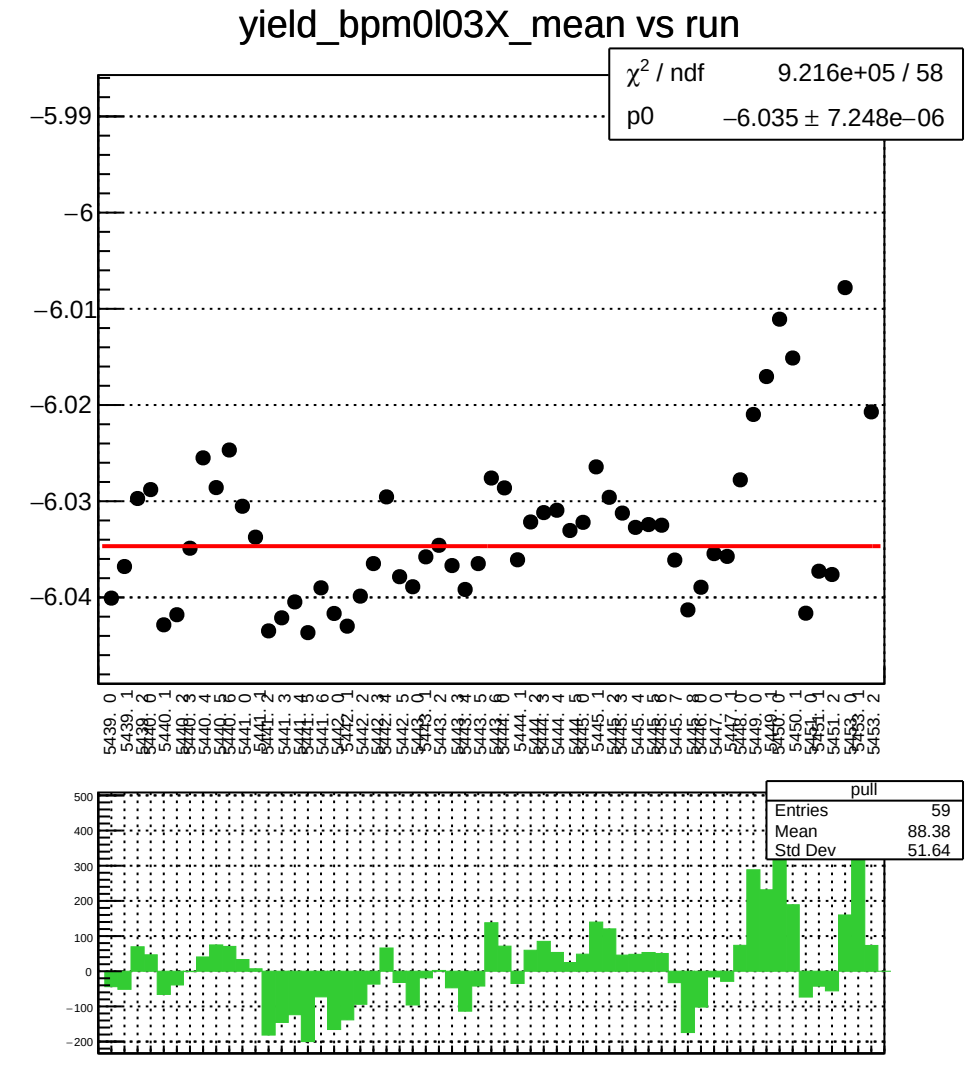

pull1D
Entries 59
Mean −2.92
Std Dev 3.849
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

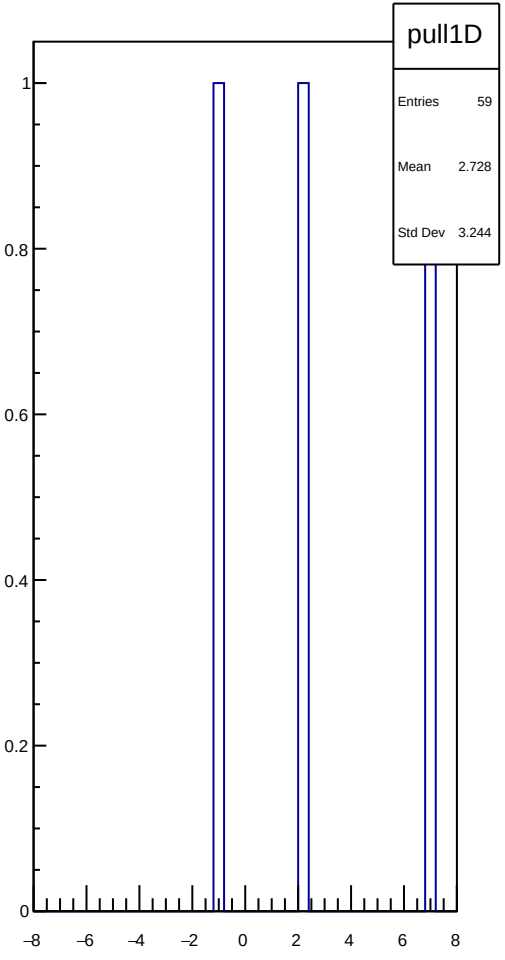

yield_bpm0l02X_rms vs run
χ² / ndf 2.861e+04 / 58
p0 0.01482 ± 1.383e–05
0.04
0.035
0.03
0.025
0.02
0.015

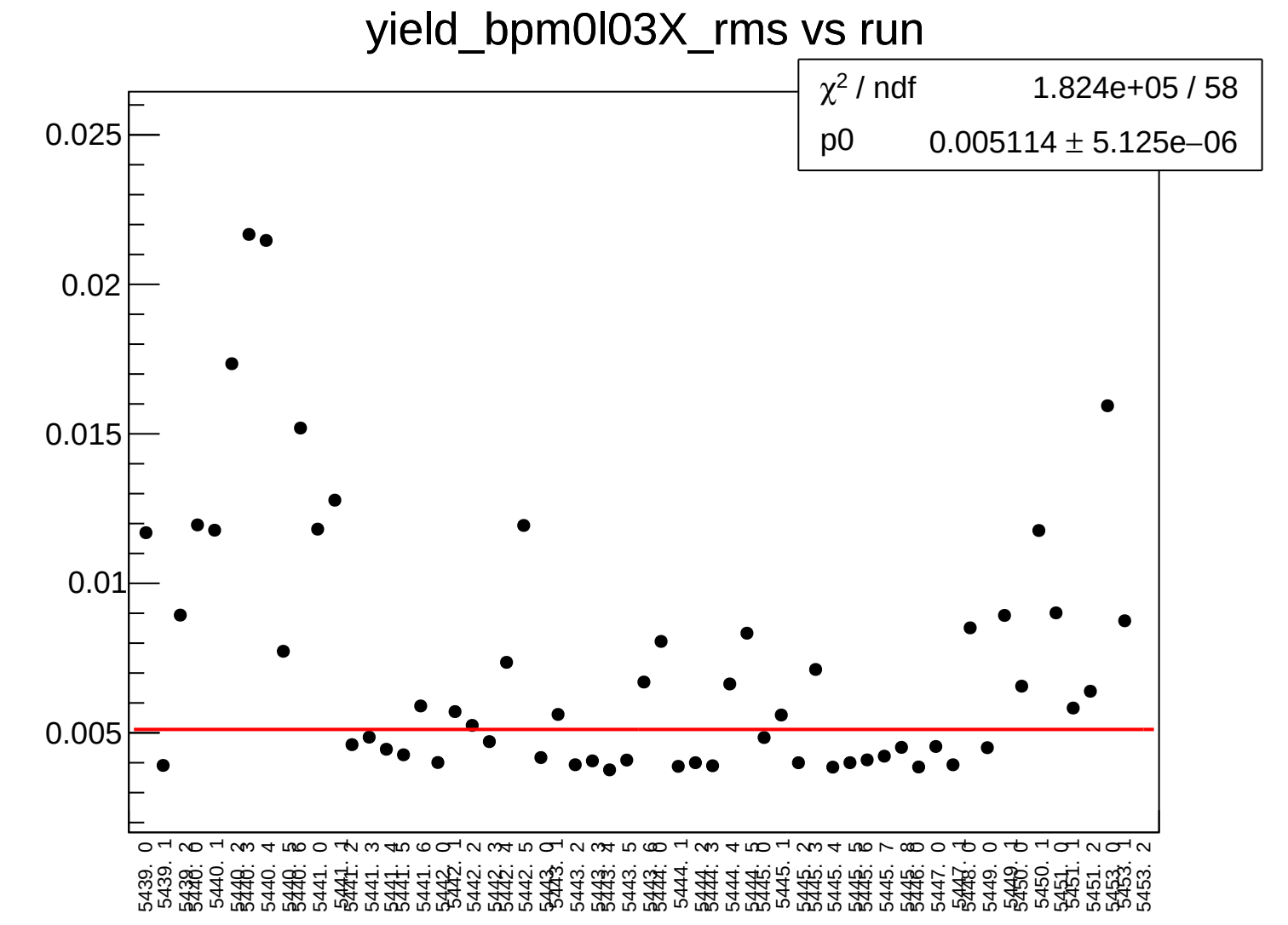

yield_bpm0l02Y_mean vs run
χ² / ndf 1.151e+06 / 58
p0 0.2885 ± 9.698e−06
0.32
0.31
0.3
0.29
0.28
0.27
0.26
pull
Entries 59
Mean −455.9
Std Dev 472.3
300
200
100
0
−100
−200

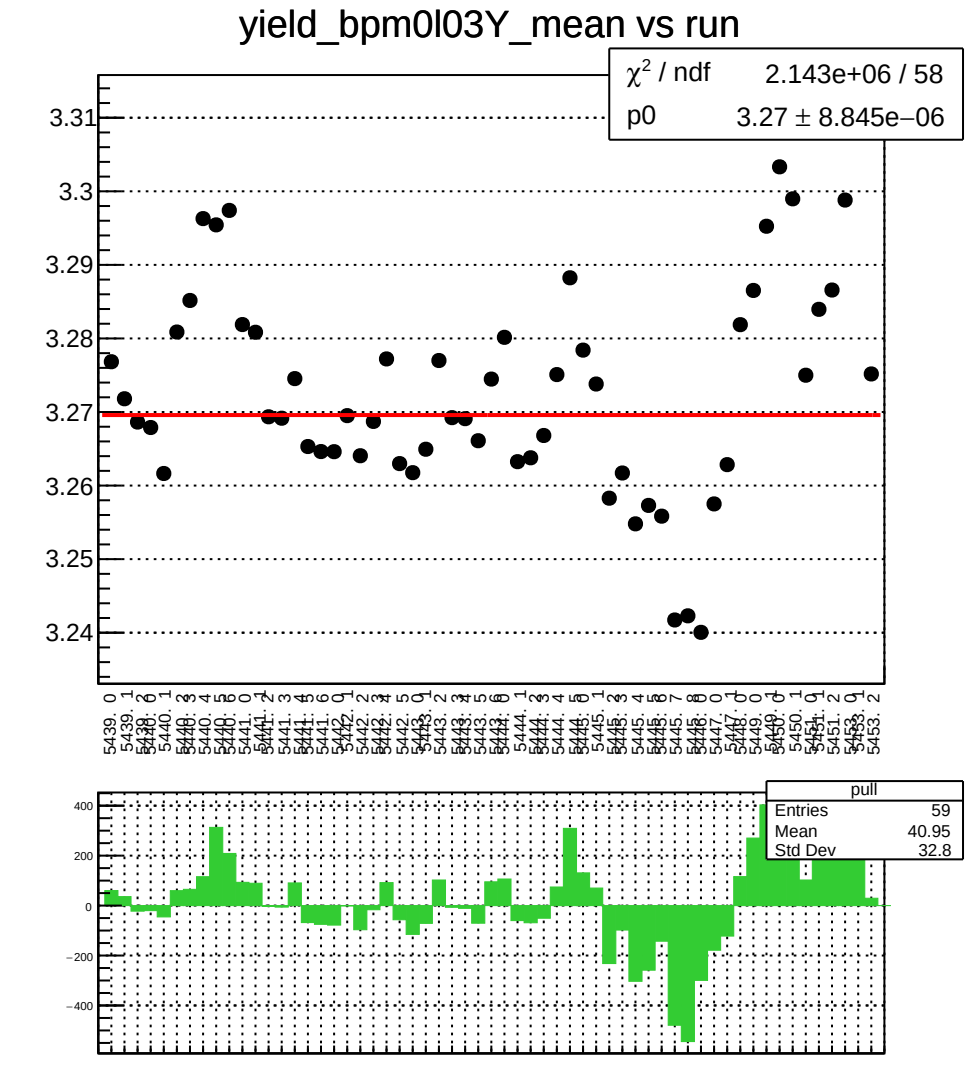

pull1D
Entries 59
Mean 0.2996
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

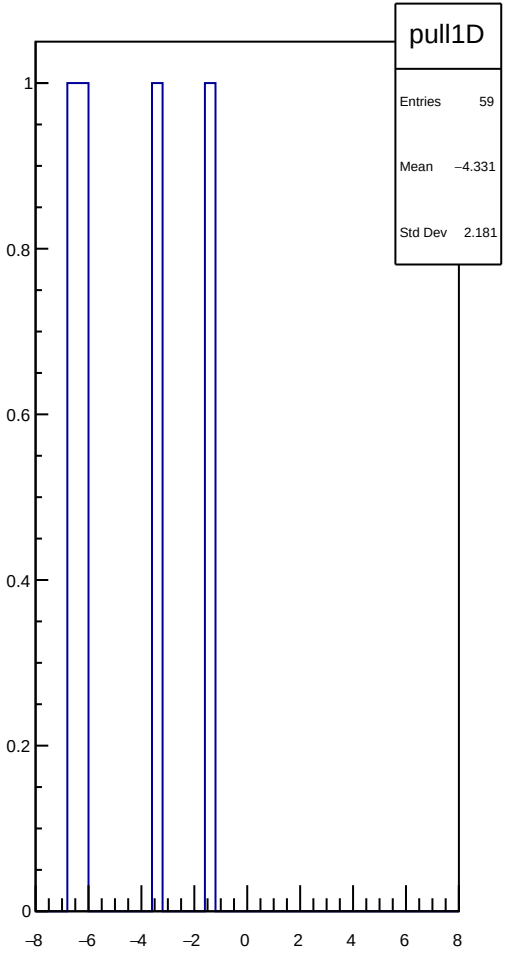

yield_bpm0l02Y_rms vs run
χ² / ndf 3.338e+04 / 58
p0 0.007336 ± 6.857e−06
0.014
0.012
0.01
0.008
0.006

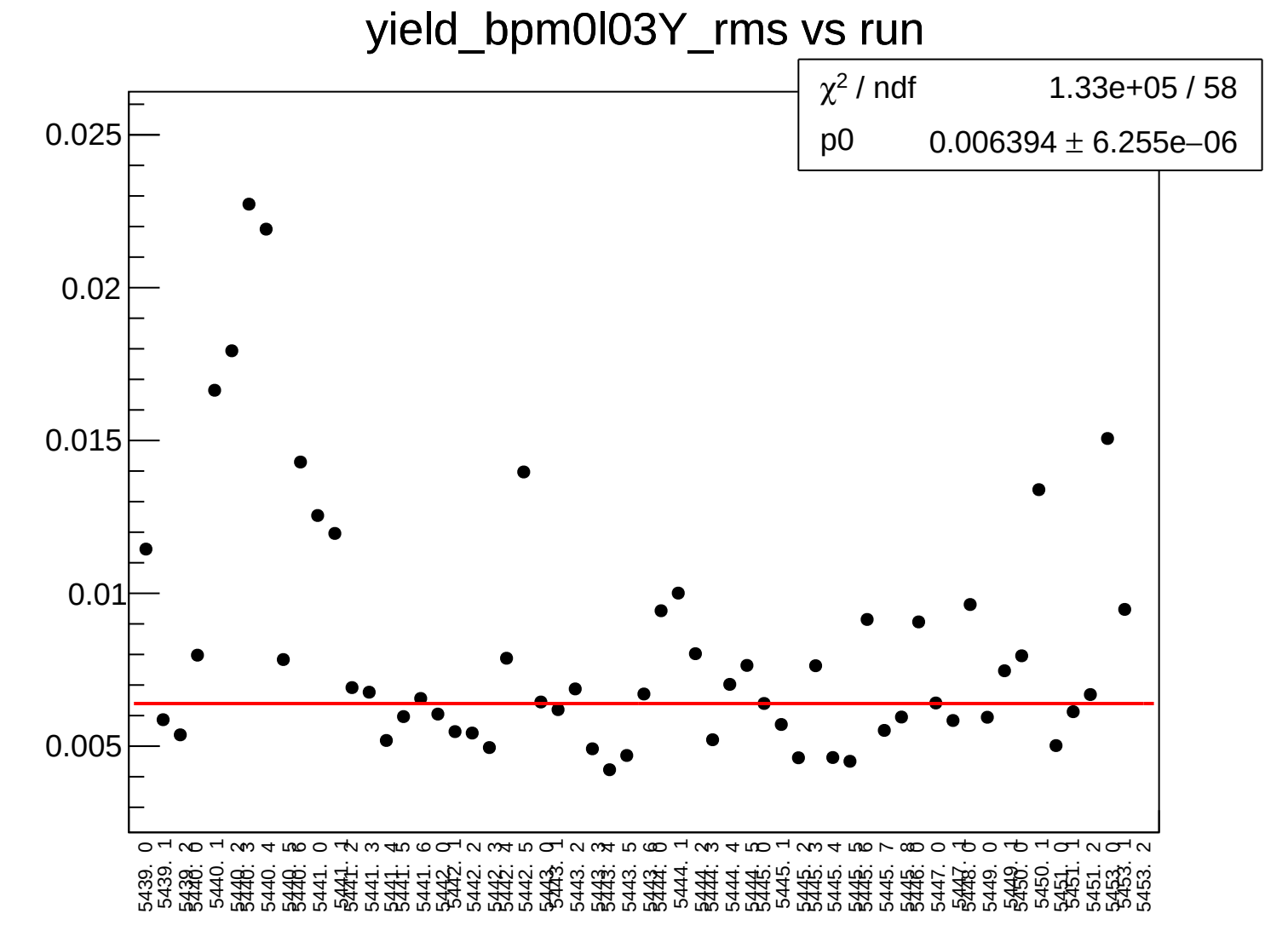

yield_bpm0l03X_mean vs run
χ² / ndf 9.216e+05 / 58
p0 −6.035 ± 7.248e−06
−5.99
−6
−6.01
−6.02
−6.03
−6.04
pull
Entries 59
Mean 88.38
Std Dev 51.64
500
400
300
200
100
0
−100
−200

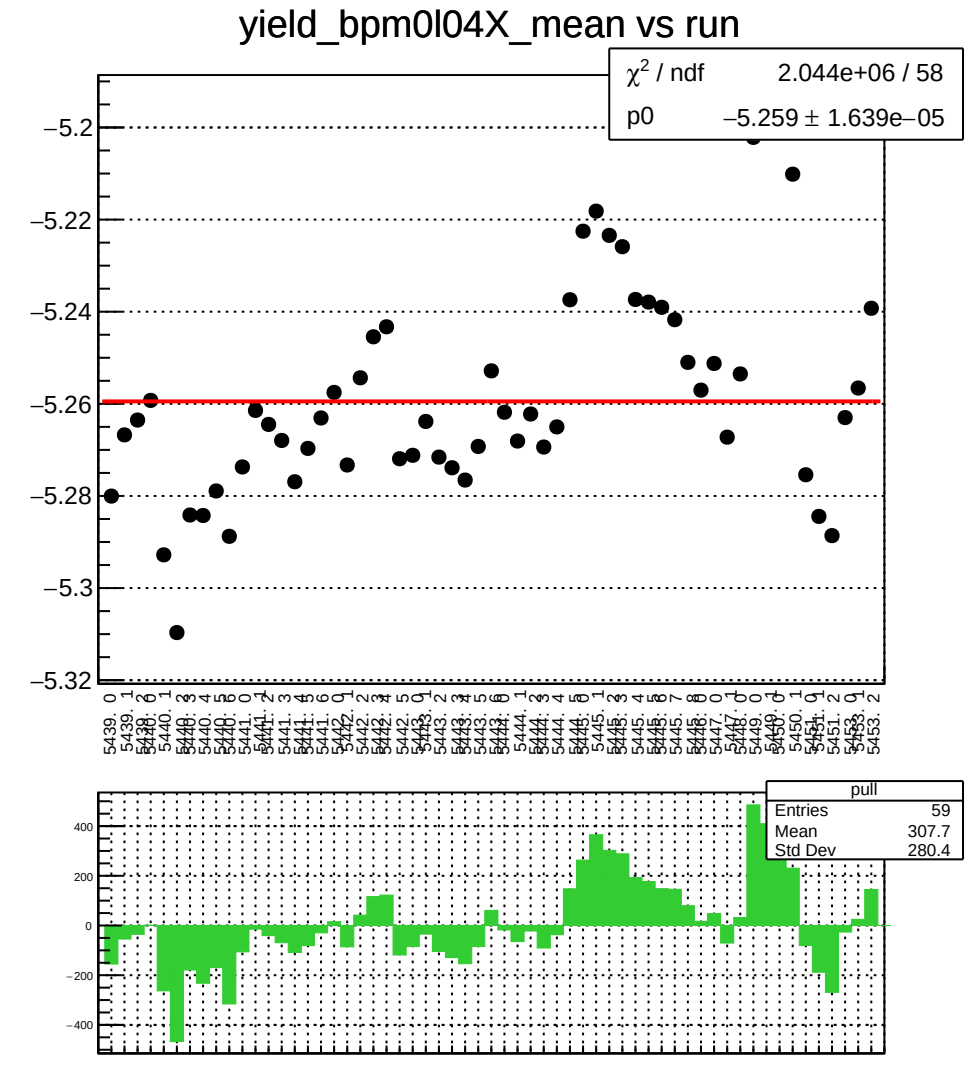

pull1D
Entries 59
Mean 2.728
Std Dev 3.244
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

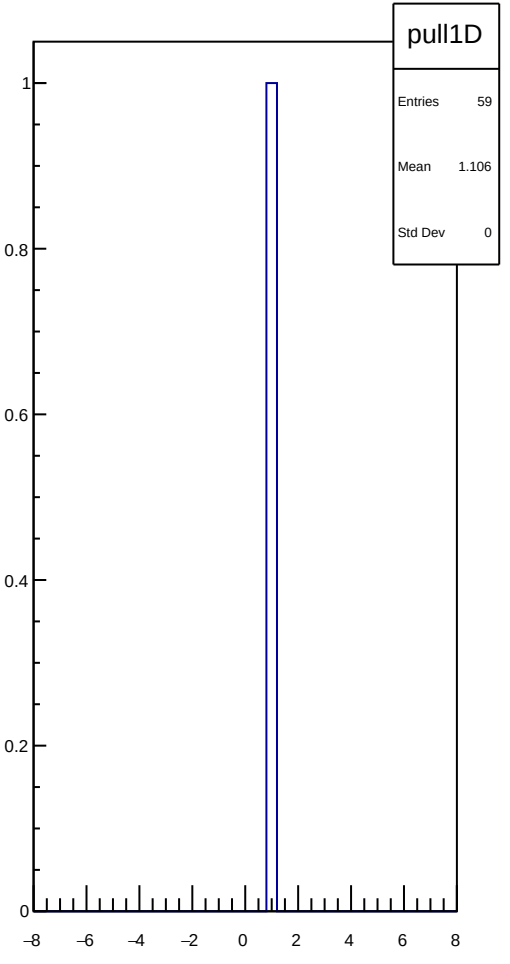

yield_bpm0l03X_rms vs run
χ² / ndf 1.824e+05 / 58
p0 0.005114 ± 5.125e−06
0.025
0.02
0.015
0.01
0.005

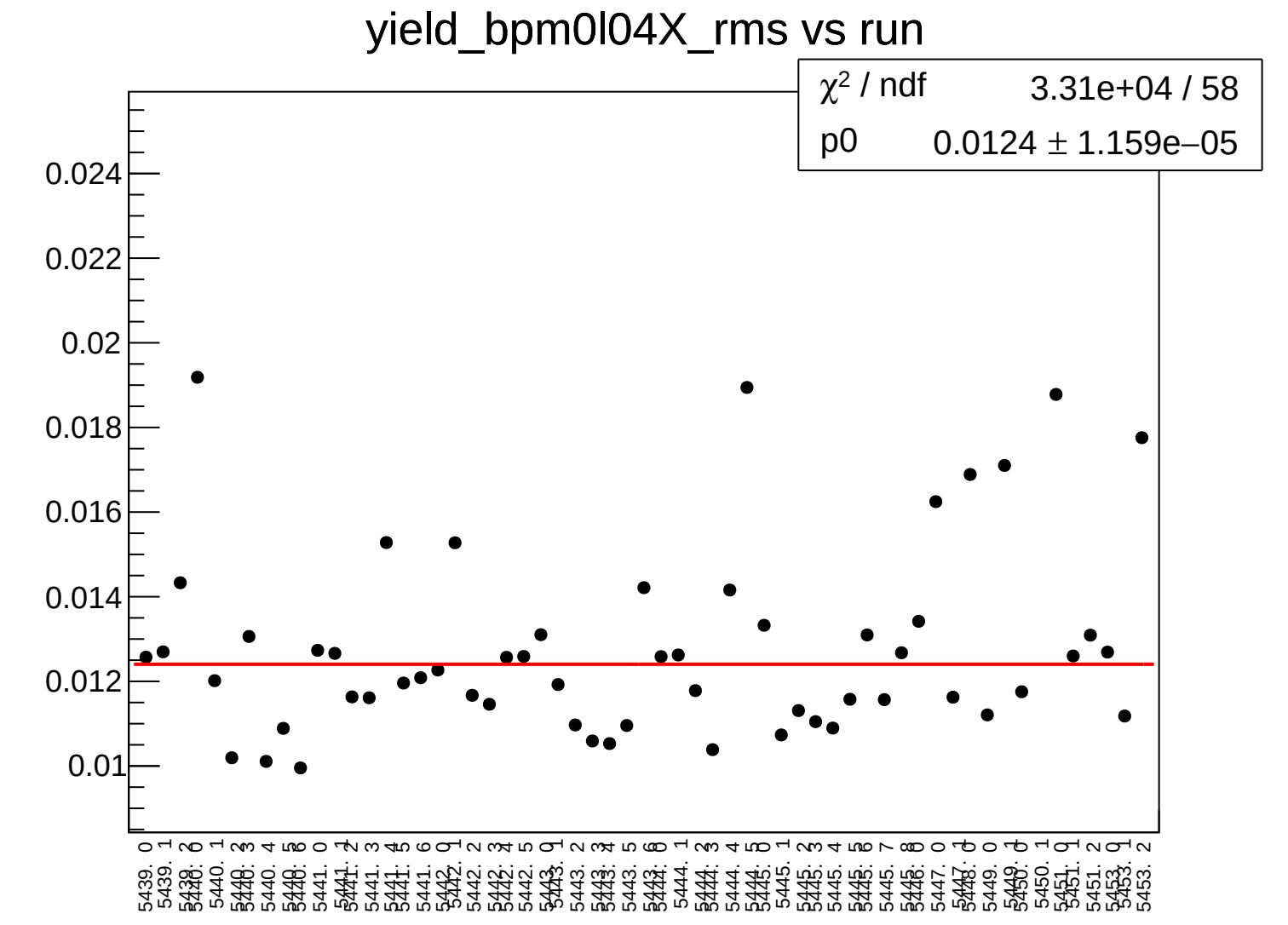

yield_bpm0l03Y_mean vs run
χ² / ndf 2.143e+06 / 58
p0 3.27 ± 8.845e−06
3.31
3.3
3.29
3.28
3.27
3.26
3.25
3.24
pull
Entries 59
Mean 40.95
Std Dev 32.8
400
200
0
−200
−400

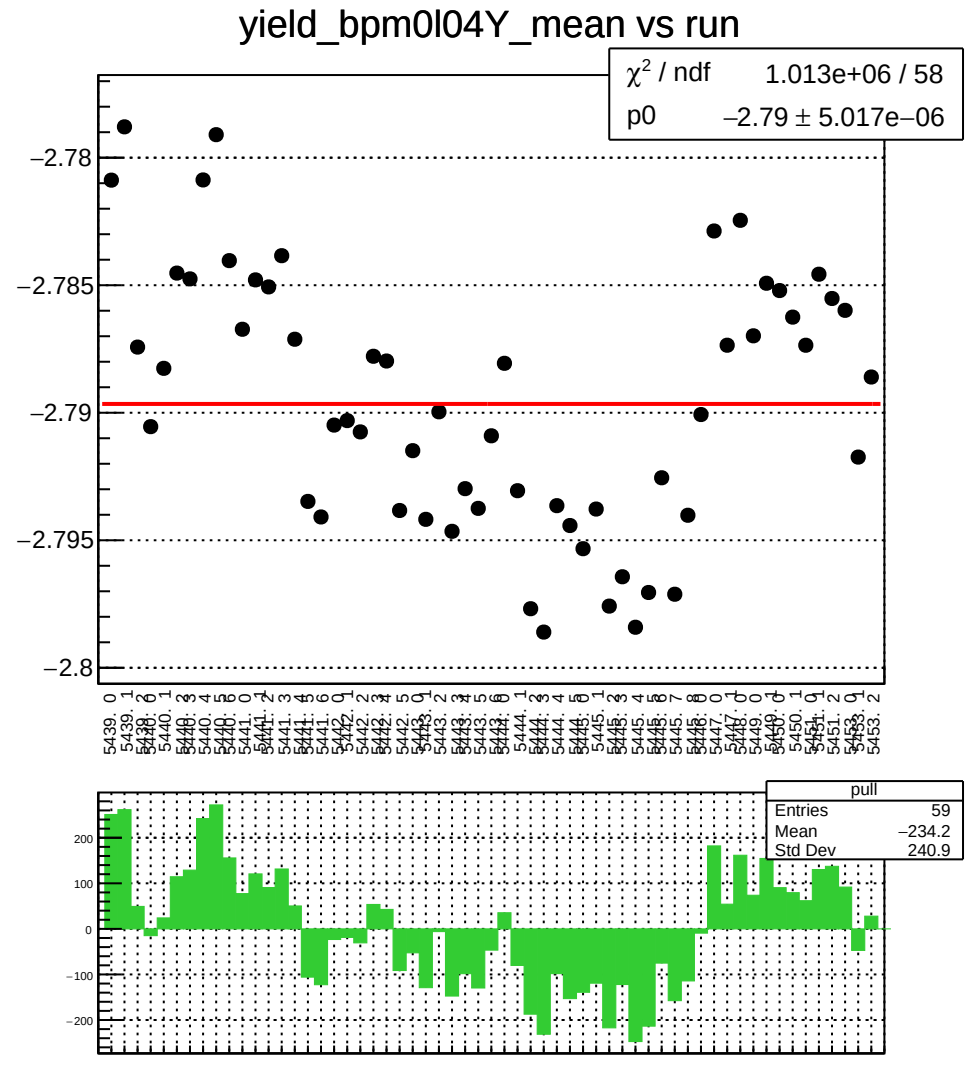

pull1D
Entries 59
Mean −4.331
Std Dev 2.181
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

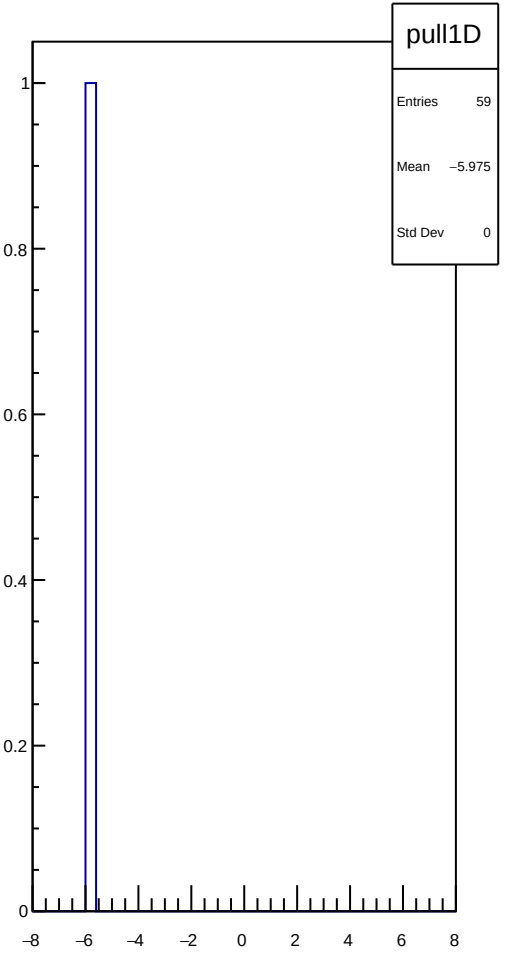

yield_bpm0l03Y_rms vs run
χ² / ndf 1.33e+05 / 58
p0 0.006394 ± 6.255e−06
0.025
0.02
0.015
0.01
0.005

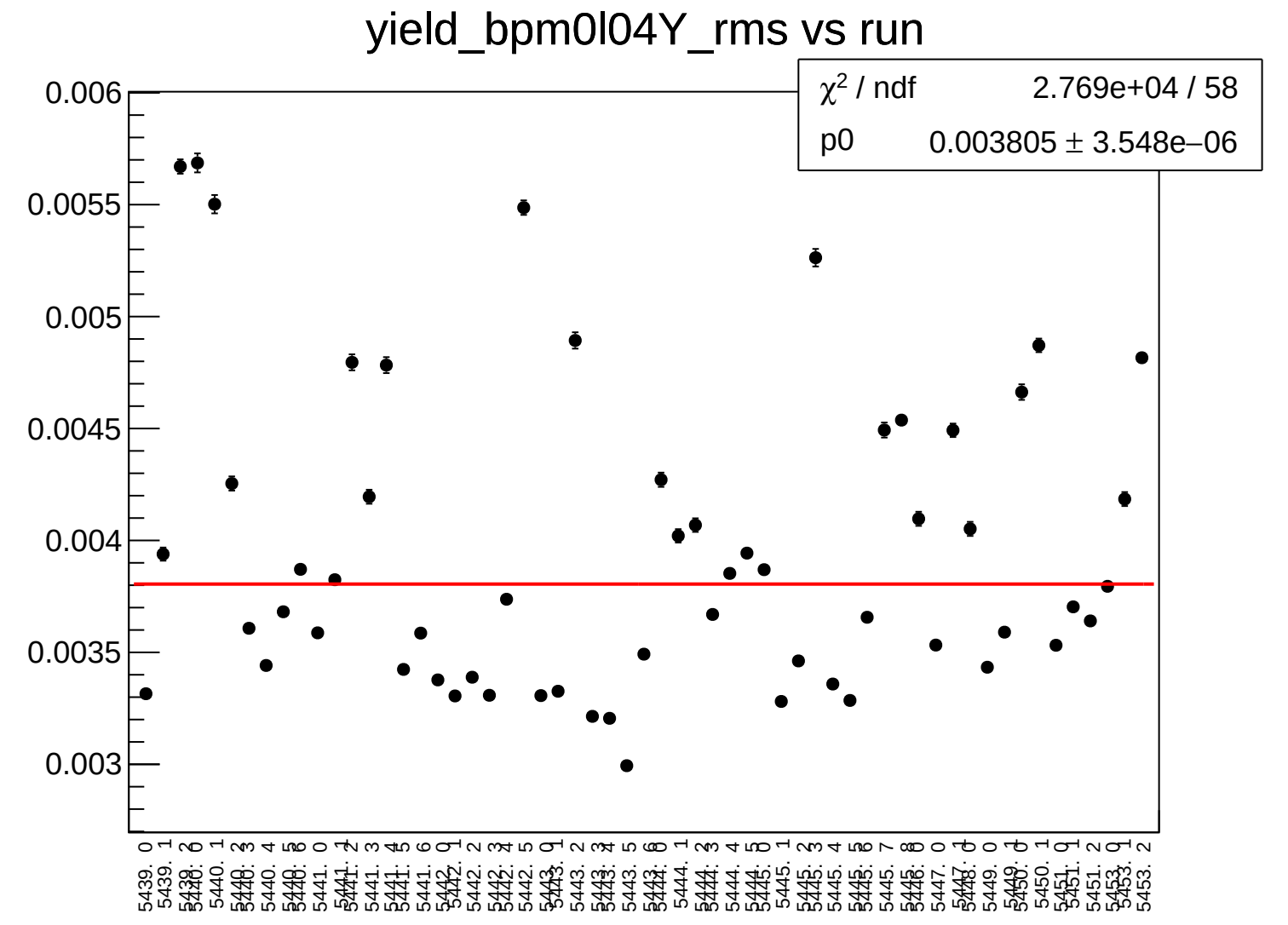

yield_bpm0l04X_mean vs run
χ² / ndf 2.044e+06 / 58
p0 −5.259 ± 1.639e−05
−5.2
−5.22
−5.24
−5.26
−5.28
−5.3
−5.32
pull
Entries 59
Mean 307.7
Std Dev 280.4
400
200
0
−200
−400

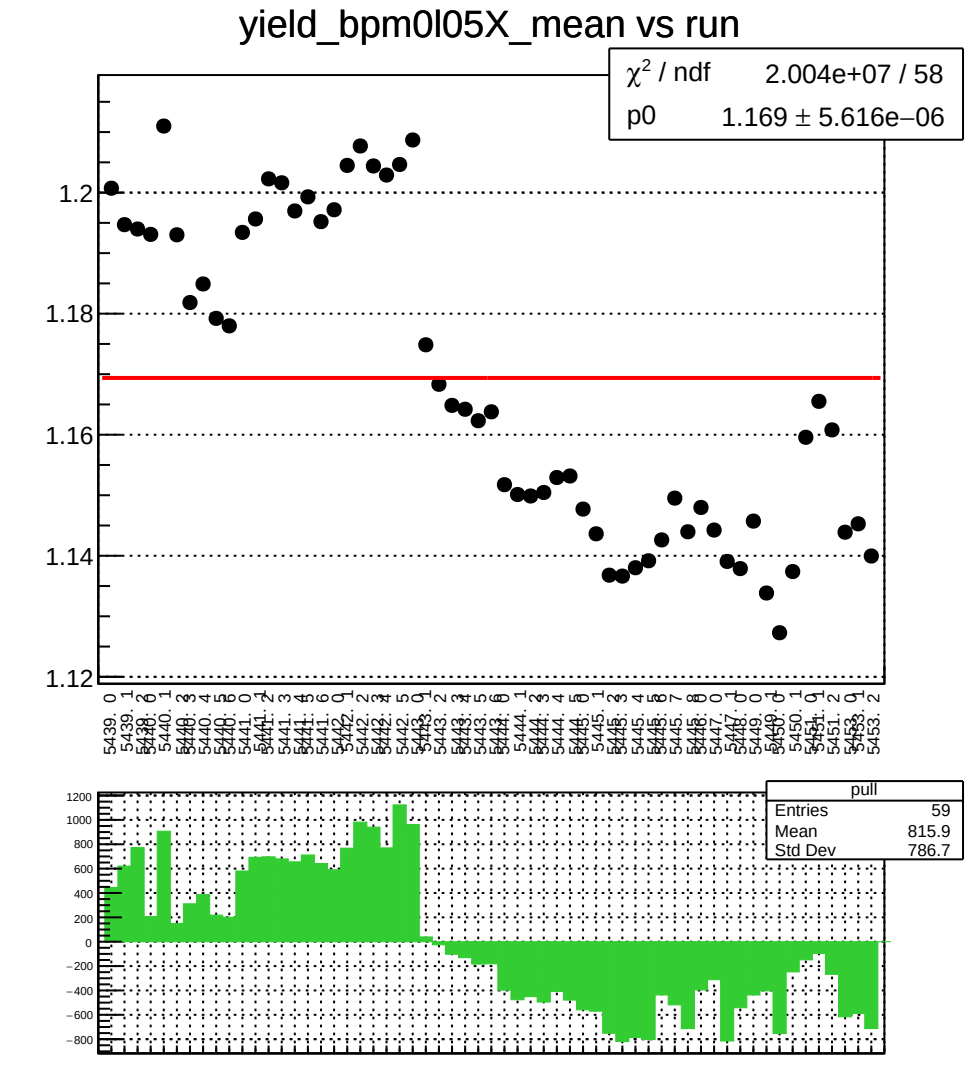

pull1D
Entries 59
Mean 1.106
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

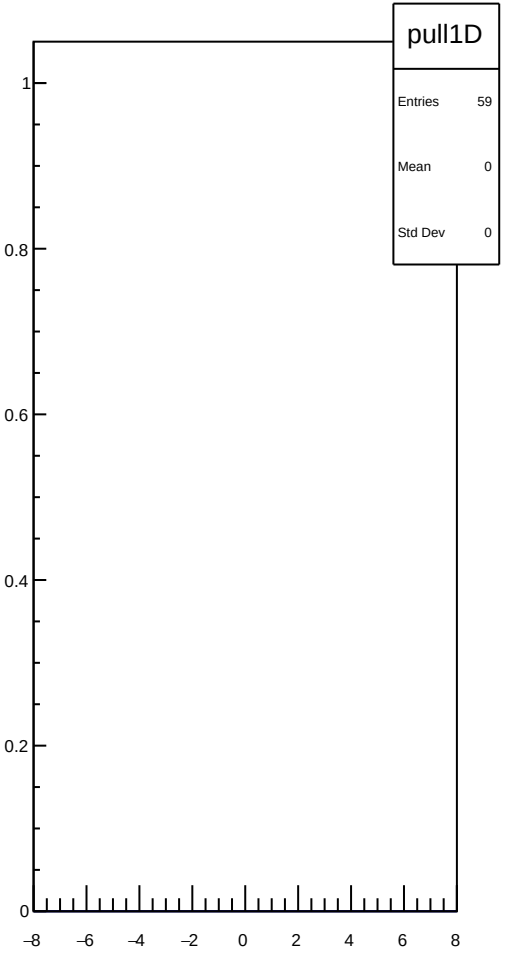

yield_bpm0l04X_rms vs run
χ² / ndf 3.31e+04 / 58
p0 0.0124 ± 1.159e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

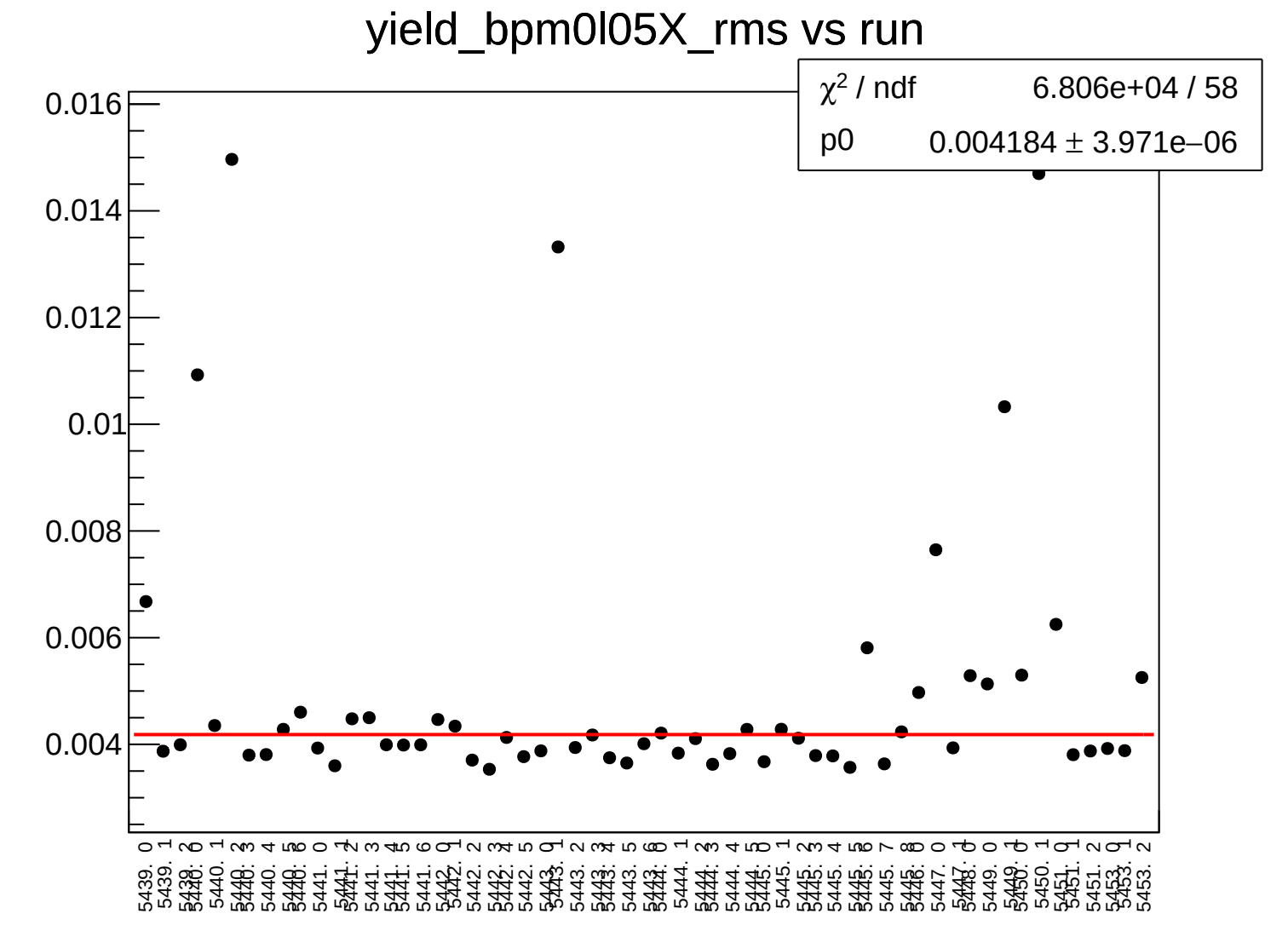

yield_bpm0l04Y_mean vs run
χ² / ndf 1.013e+06 / 58
p0 −2.79 ± 5.017e−06
−2.78
−2.785
−2.79
−2.795
−2.8
pull
Entries 59
Mean −234.2
Std Dev 240.9
200
100
0
−100
−200

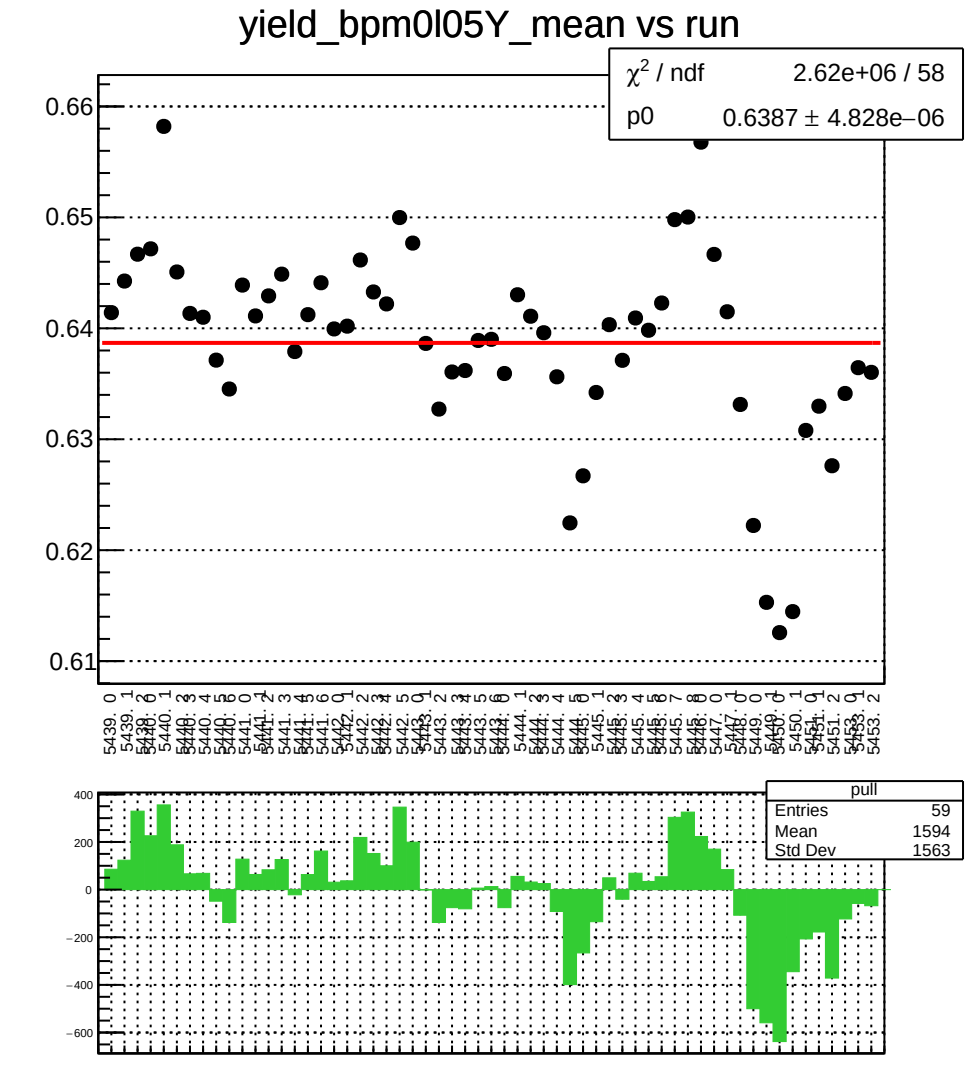

pull1D
Entries 59
Mean −5.975
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

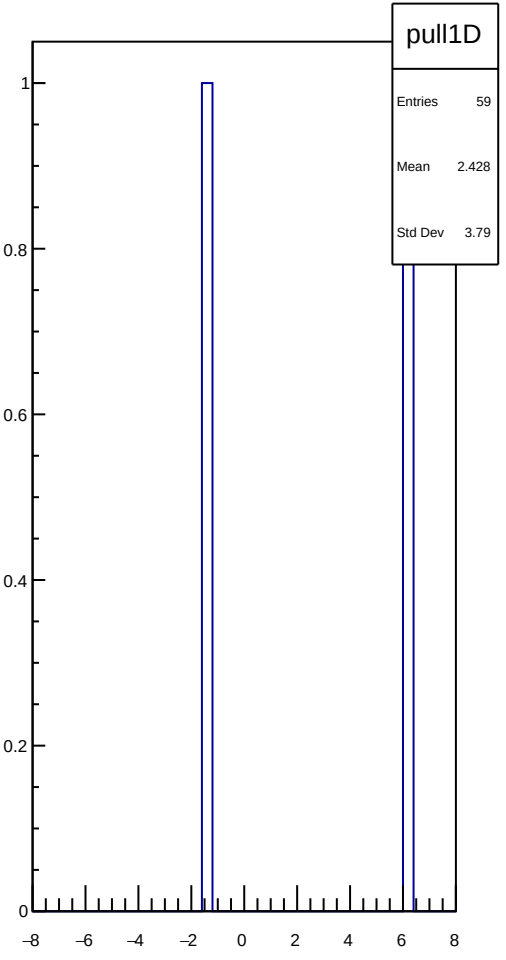

yield_bpm0l04Y_rms vs run
χ² / ndf 2.769e+04 / 58
p0 0.003805 ± 3.548e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

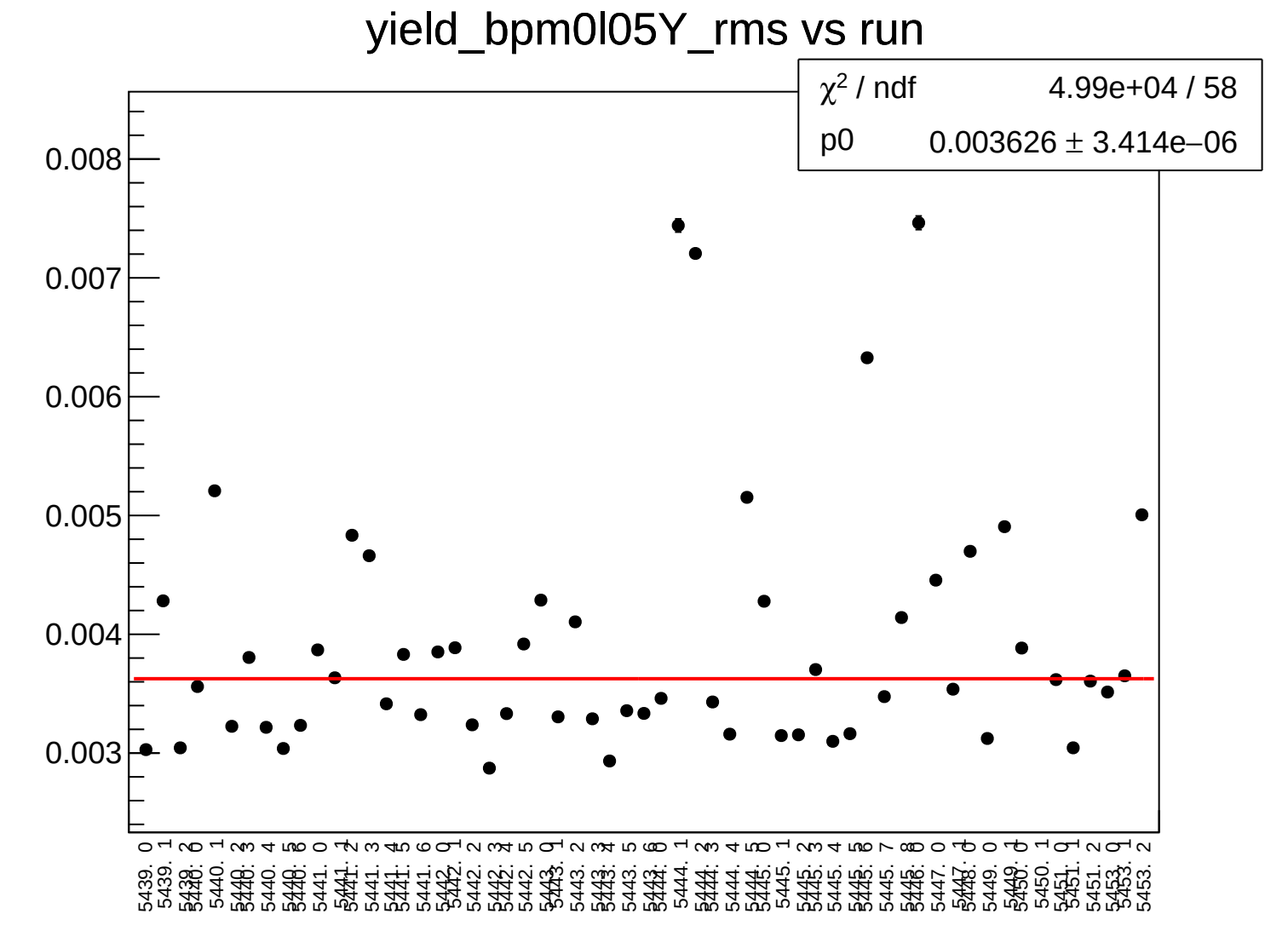

yield_bpm0l05X_mean vs run
χ² / ndf 2.004e+07 / 58
p0 1.169 ± 5.616e−06
1.2
1.18
1.16
1.14
1.12
pull
Entries 59
Mean 815.9
Std Dev 786.7
1200
1000
800
600
400
200
0
−200
−400
−600
−800

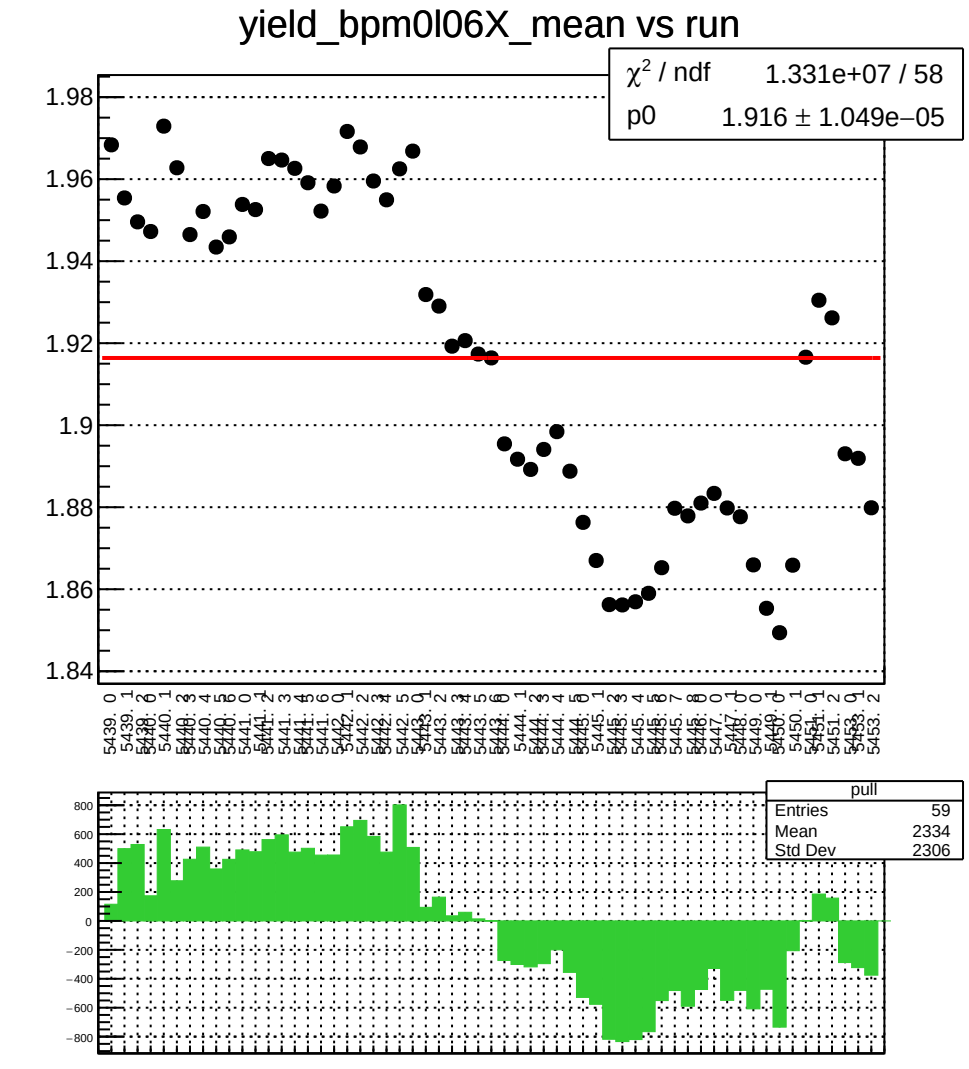

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

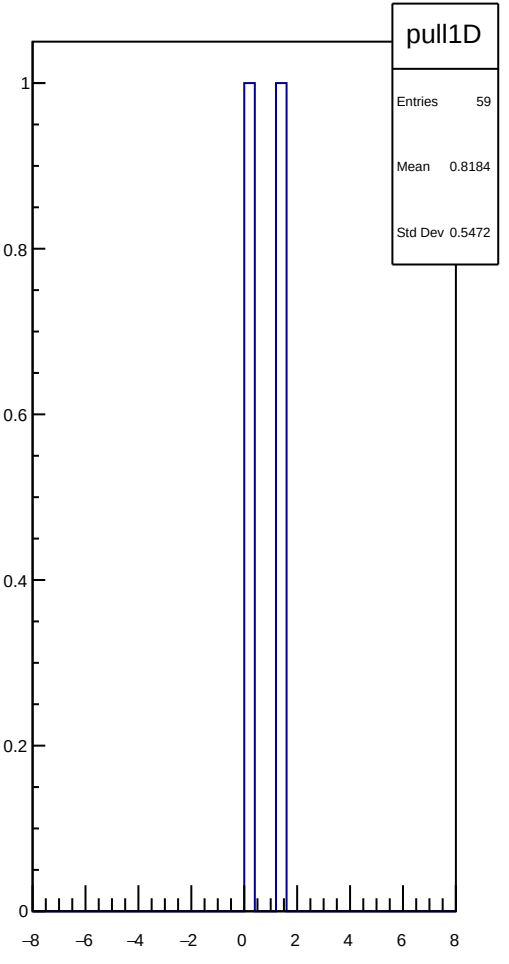

yield_bpm0l05X_rms vs run
χ² / ndf 6.806e+04 / 58
p0 0.004184 ± 3.971e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

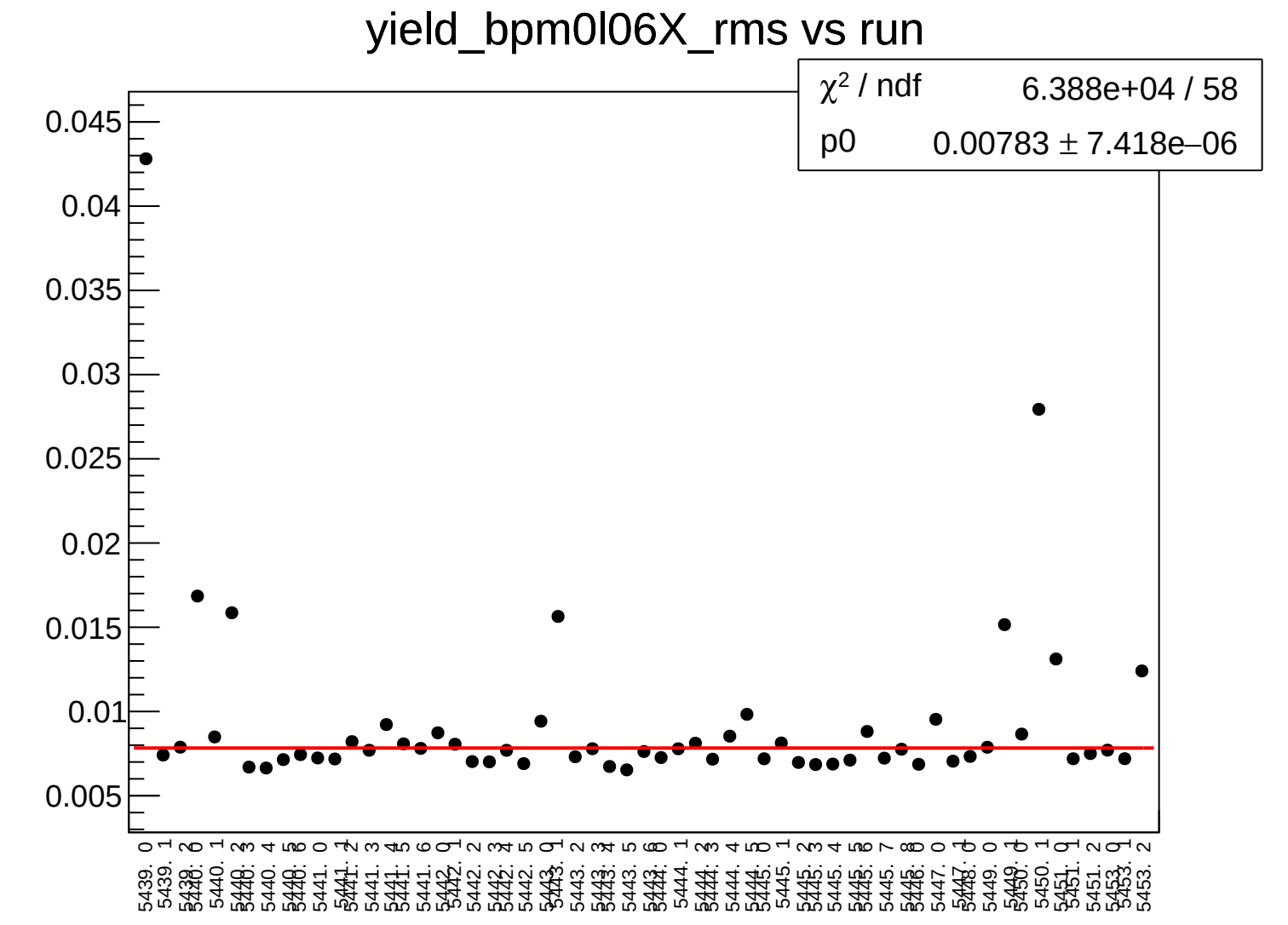

yield_bpm0l05Y_mean vs run
χ² / ndf 2.62e+06 / 58
p0 0.6387 ± 4.828e−06
0.66
0.65
0.64
0.63
0.62
0.61
pull
Entries 59
Mean 1594
Std Dev 1563
400
200
0
−200
−400
−600

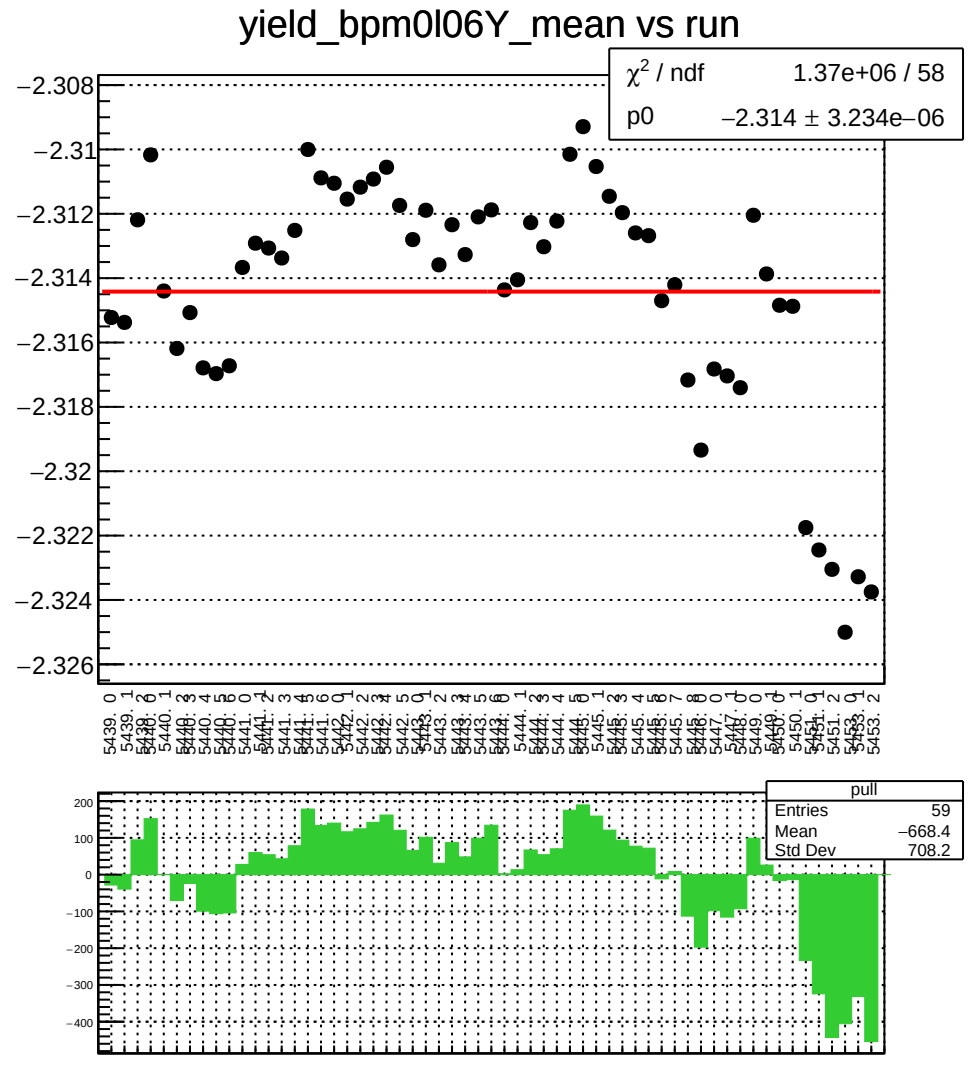

pull1D
Entries 59
Mean 2.428
Std Dev 3.79
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

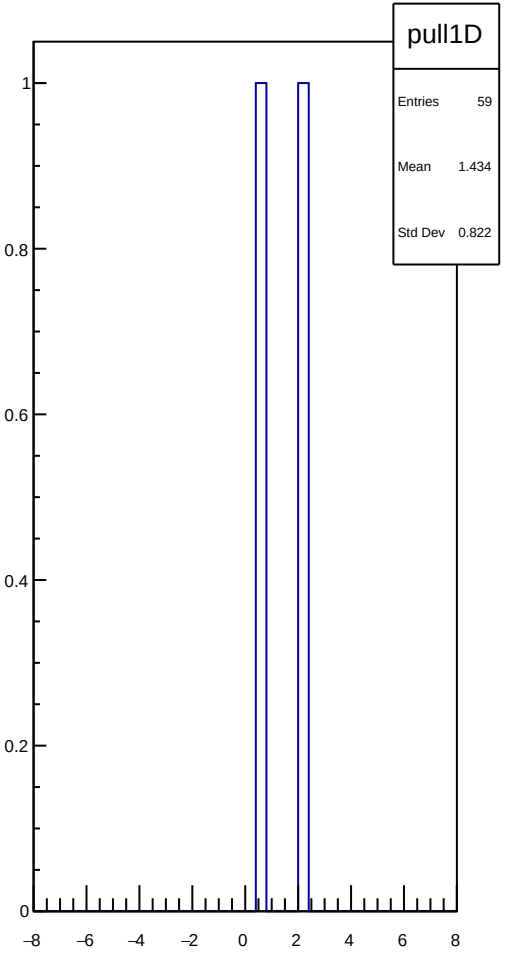

yield_bpm0l05Y_rms vs run
χ² / ndf 4.99e+04 / 58
p0 0.003626 ± 3.414e−06
0.008
0.007
0.006
0.005
0.004
0.003

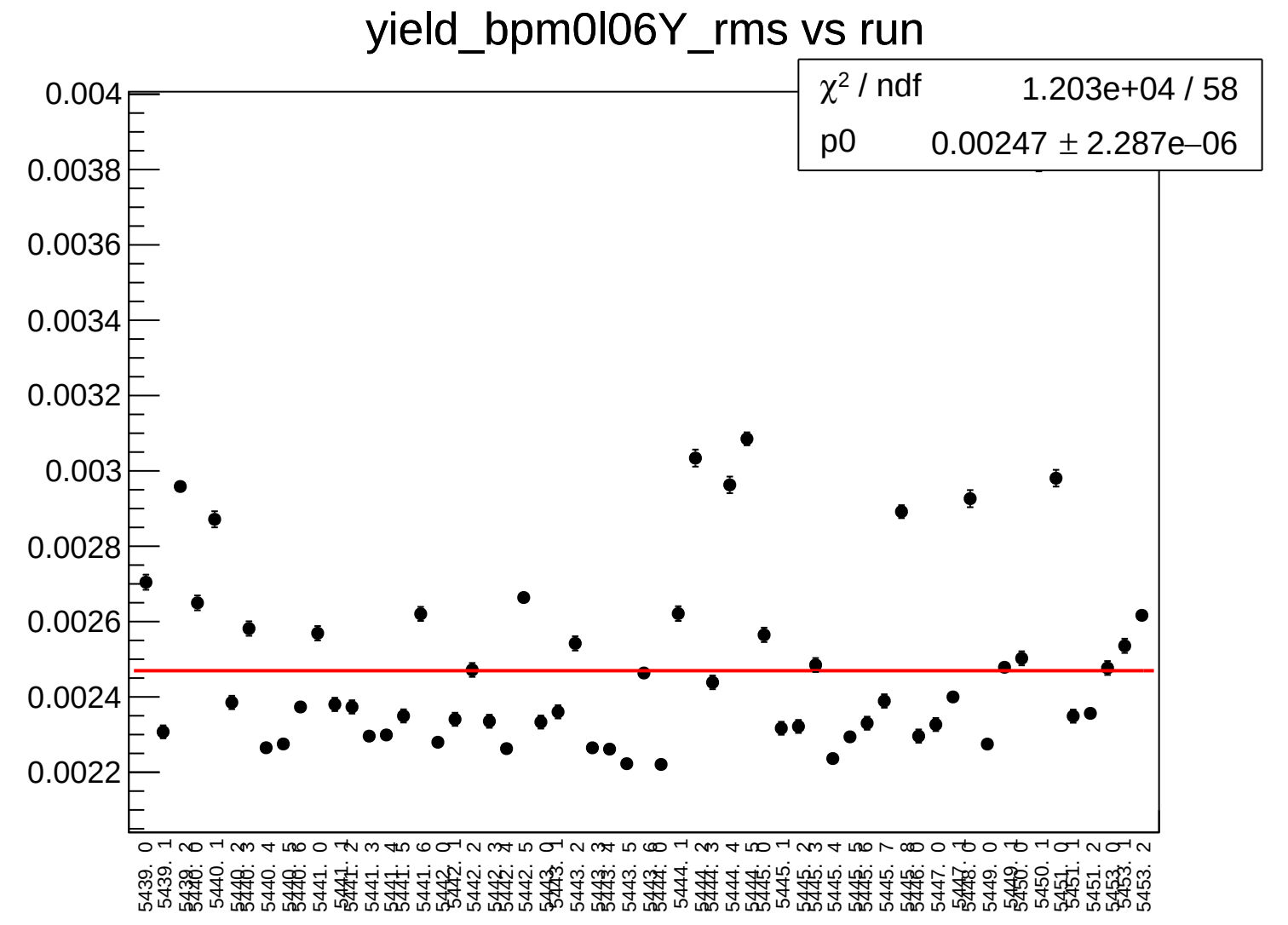

yield_bpm0l06X_mean vs run
χ² / ndf 1.331e+07 / 58
p0 1.916 ± 1.049e−05
1.98
1.96
1.94
1.92
1.9
1.88
1.86
1.84
pull
Entries 59
Mean 2334
Std Dev 2306
800
600
400
200
0
−200
−400
−600
−800

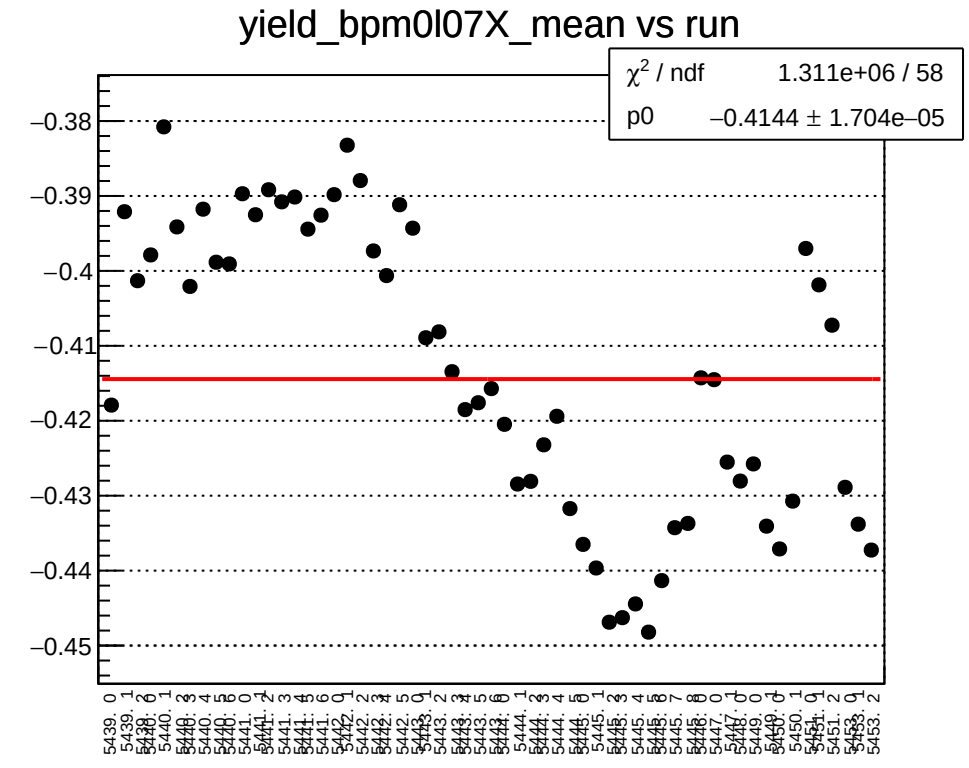

pull1D
Entries 59
Mean 0.8184
Std Dev 0.5472
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

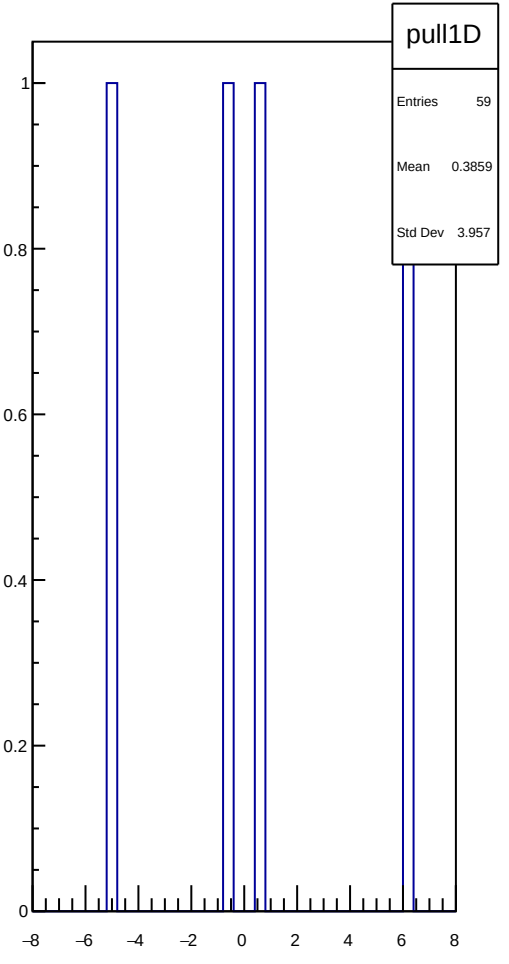

yield_bpm0l06X_rms vs run
χ² / ndf 6.388e+04 / 58
p0 0.00783 ± 7.418e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

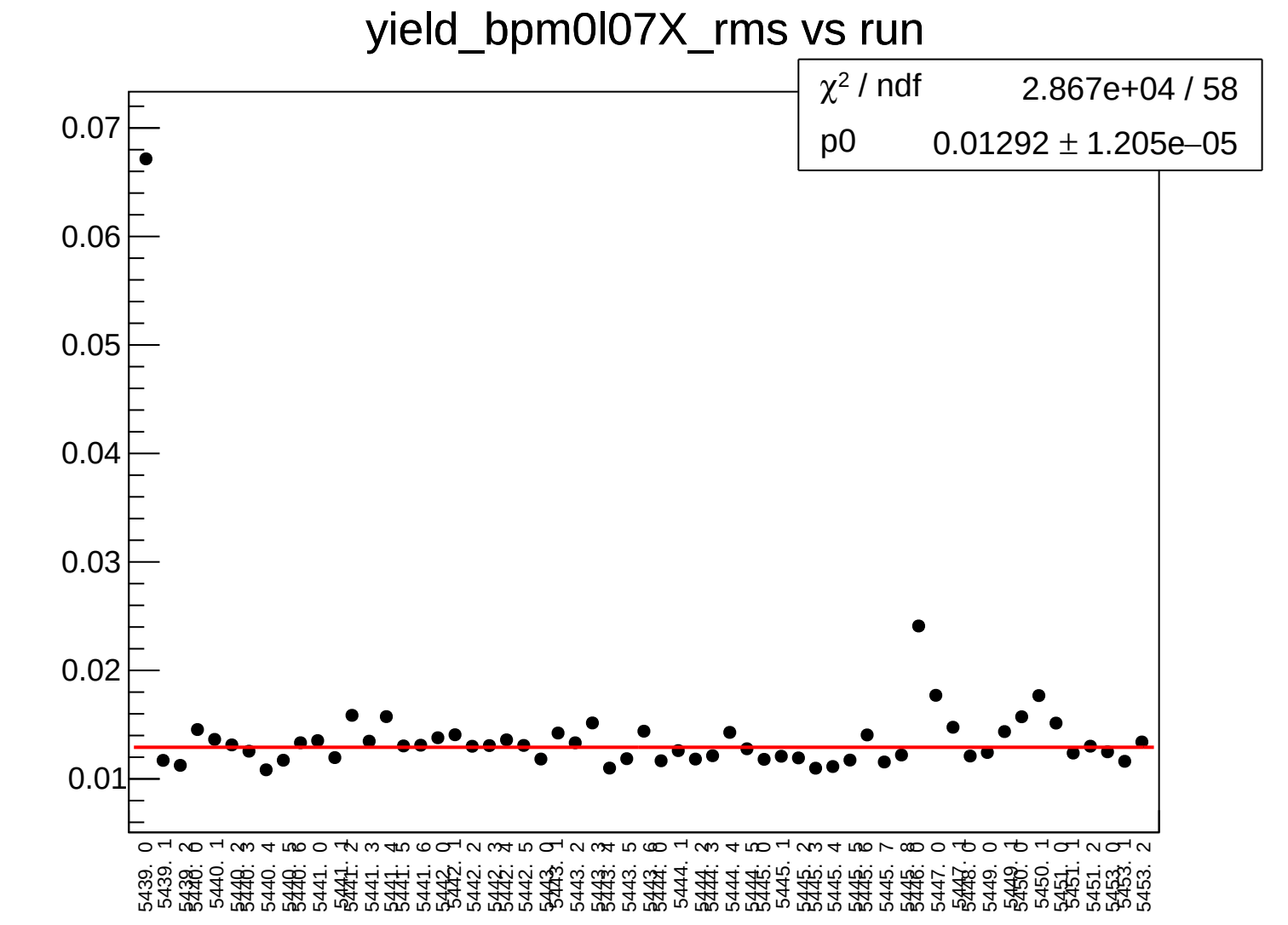

yield_bpm0l06Y_mean vs run
χ² / ndf 1.37e+06 / 58
p0 −2.314 ± 3.234e−06
−2.308
−2.31
−2.312
−2.314
−2.316
−2.318
−2.32
−2.322
−2.324
−2.326
pull
Entries 59
Mean −668.4
Std Dev 708.2
200
100
0
−100
−200
−300
−400

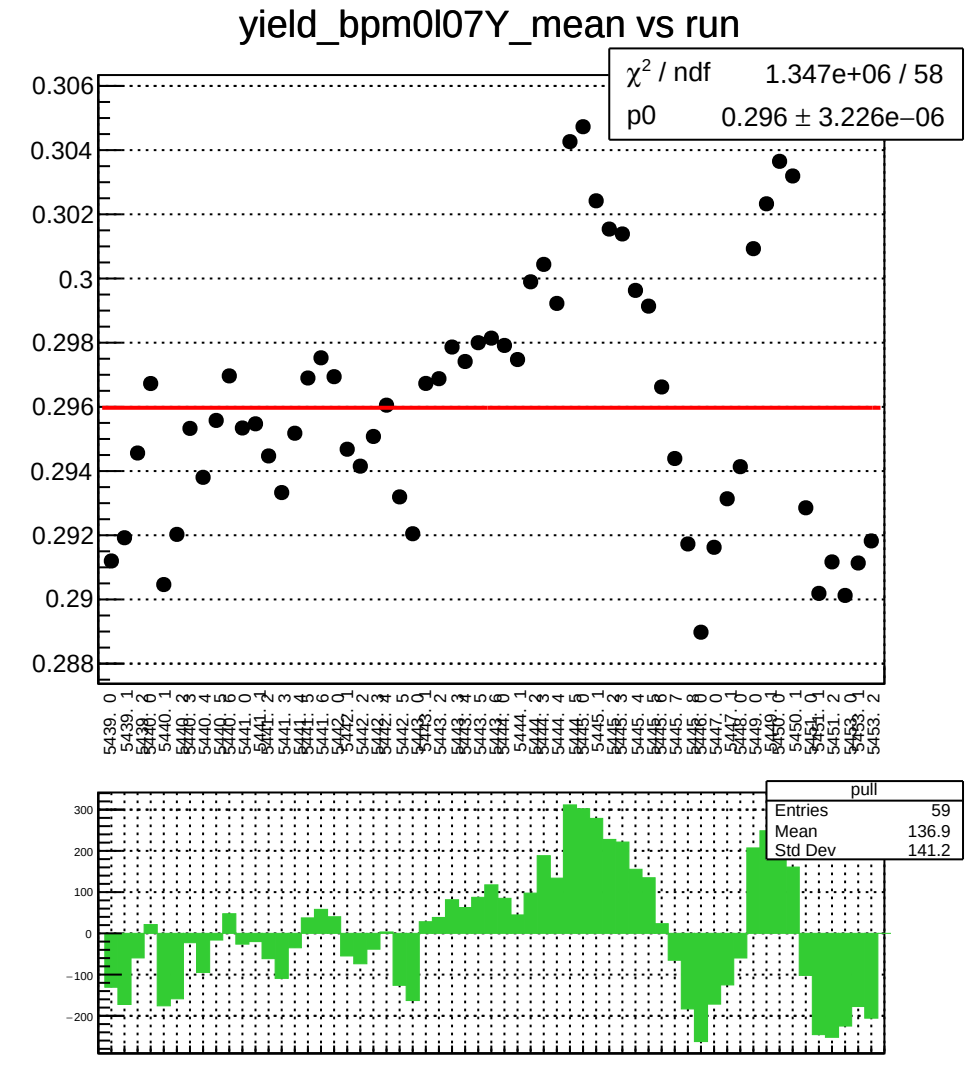

pull1D
Entries 59
Mean 1.434
Std Dev 0.822
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

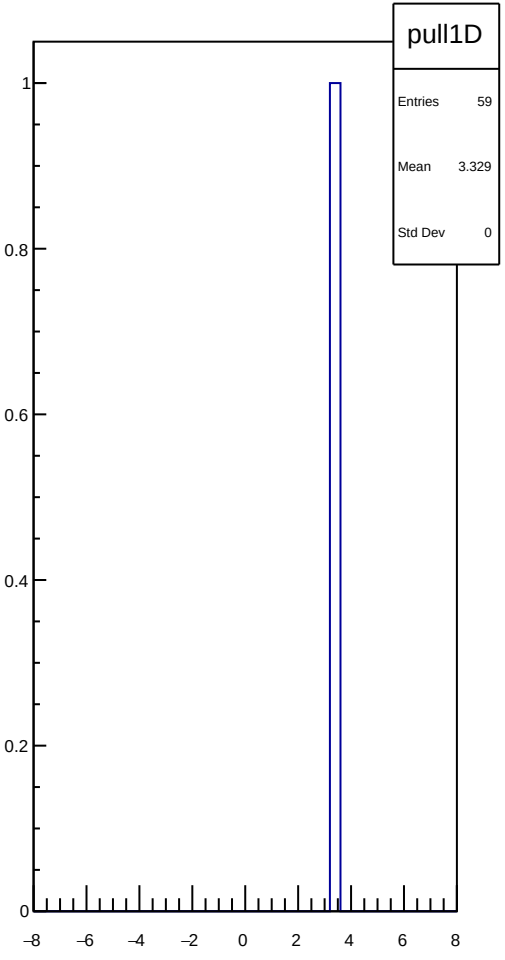

yield_bpm0l06Y_rms vs run
χ² / ndf 1.203e+04 / 58
p0 0.00247 ± 2.287e–06
0.004
0.0038
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022

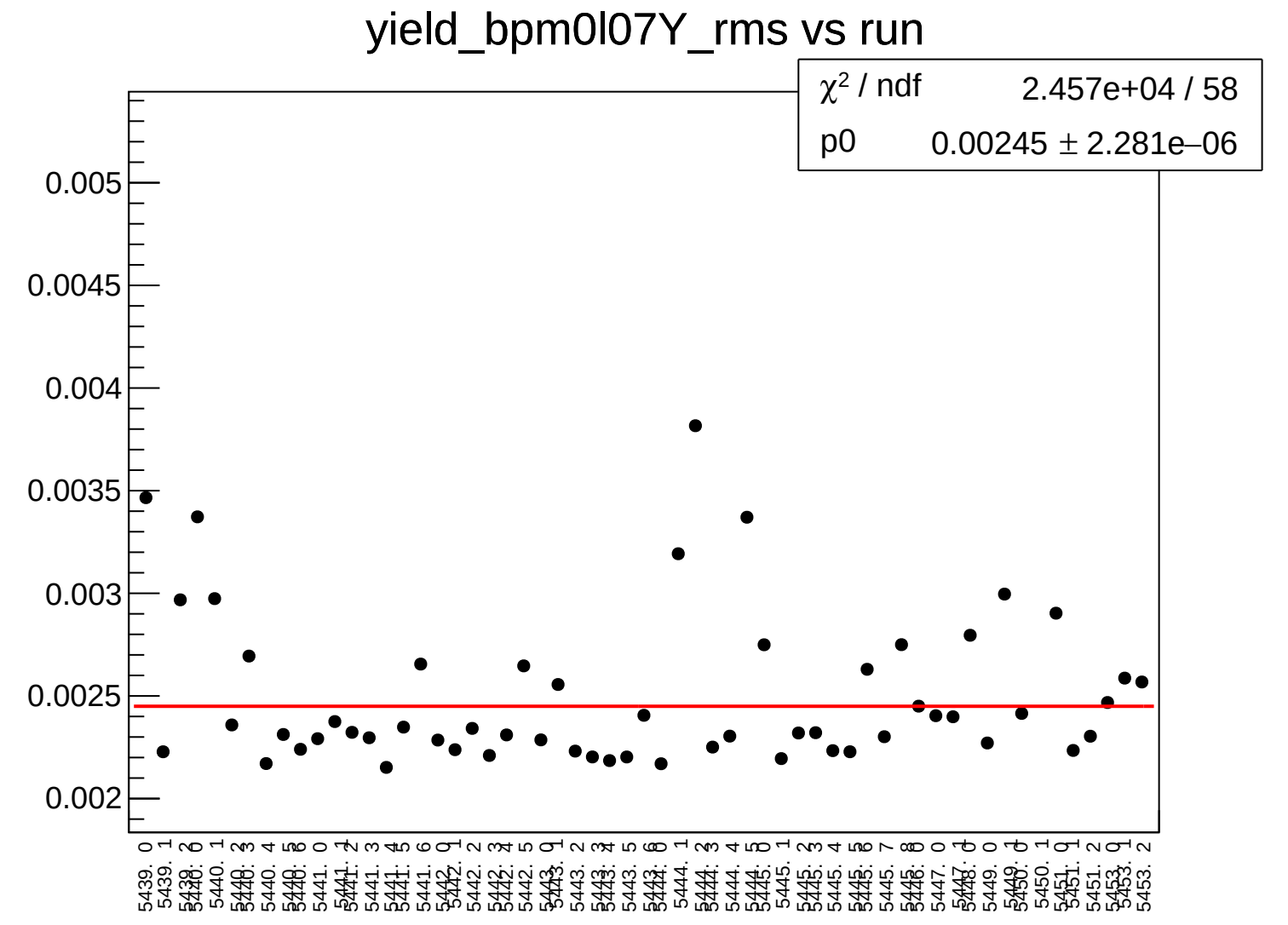

yield_bpm0l07X_mean vs run
χ² / ndf 1.311e+06 / 58
p0 −0.4144 ± 1.704e−05
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 59
Mean −356.2
Std Dev 383.7
200
100
0
−100
−200
−300

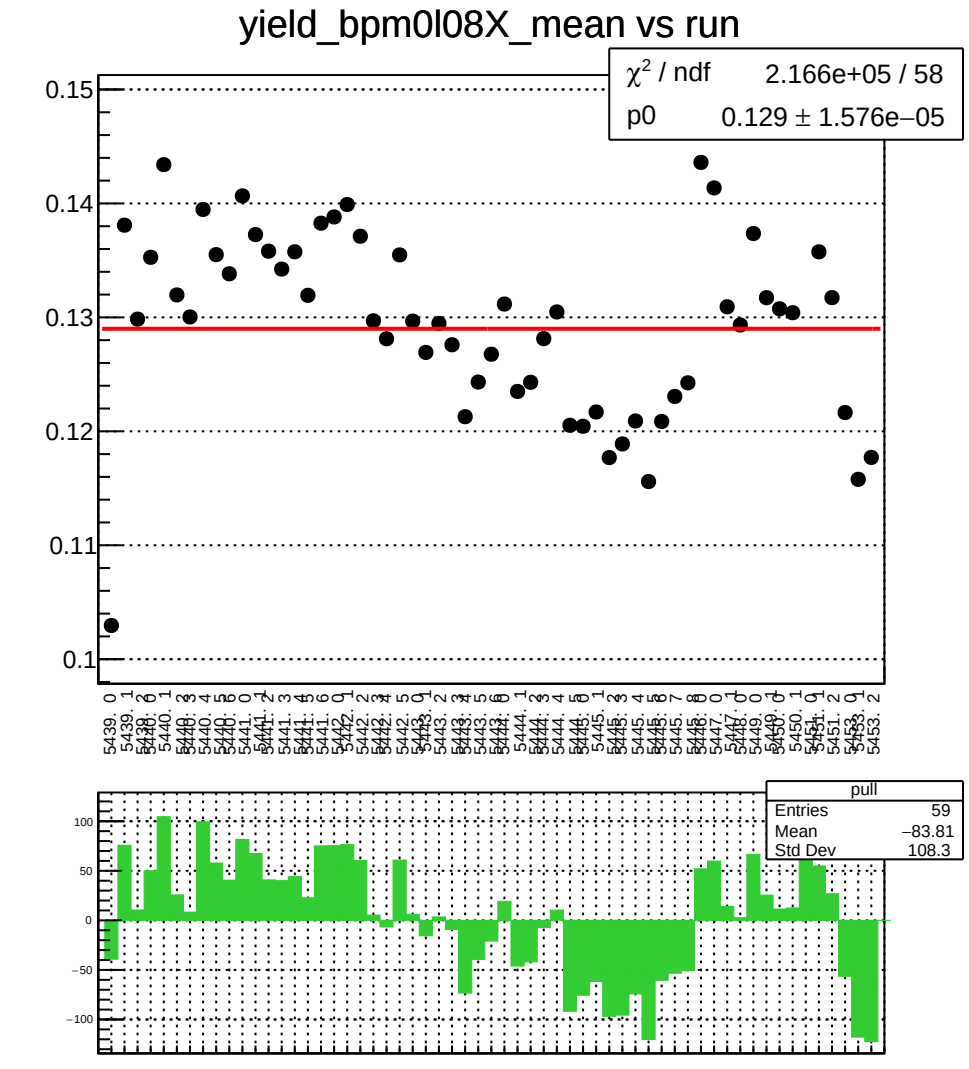

pull1D
Entries 59
Mean 0.3859
Std Dev 3.957
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

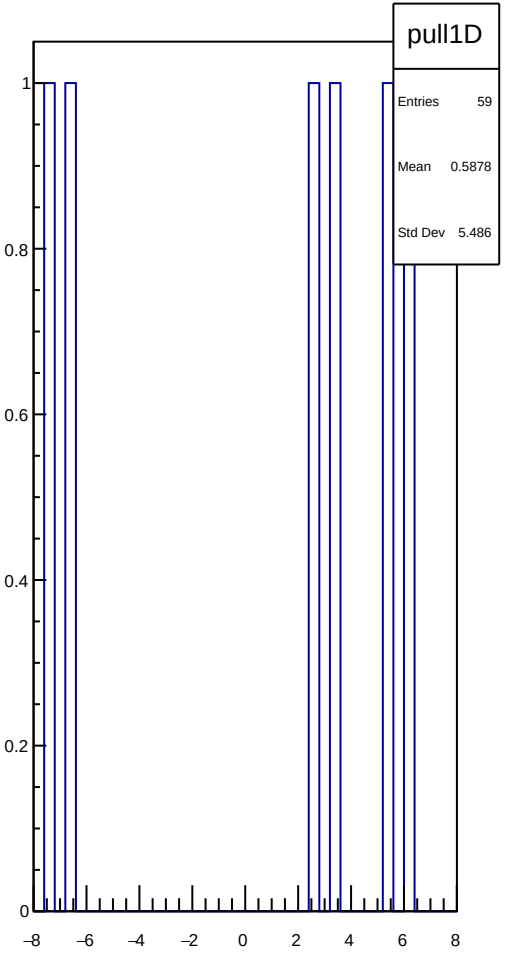

yield_bpm0l07X_rms vs run
χ² / ndf 2.867e+04 / 58
p0 0.01292 ± 1.205e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

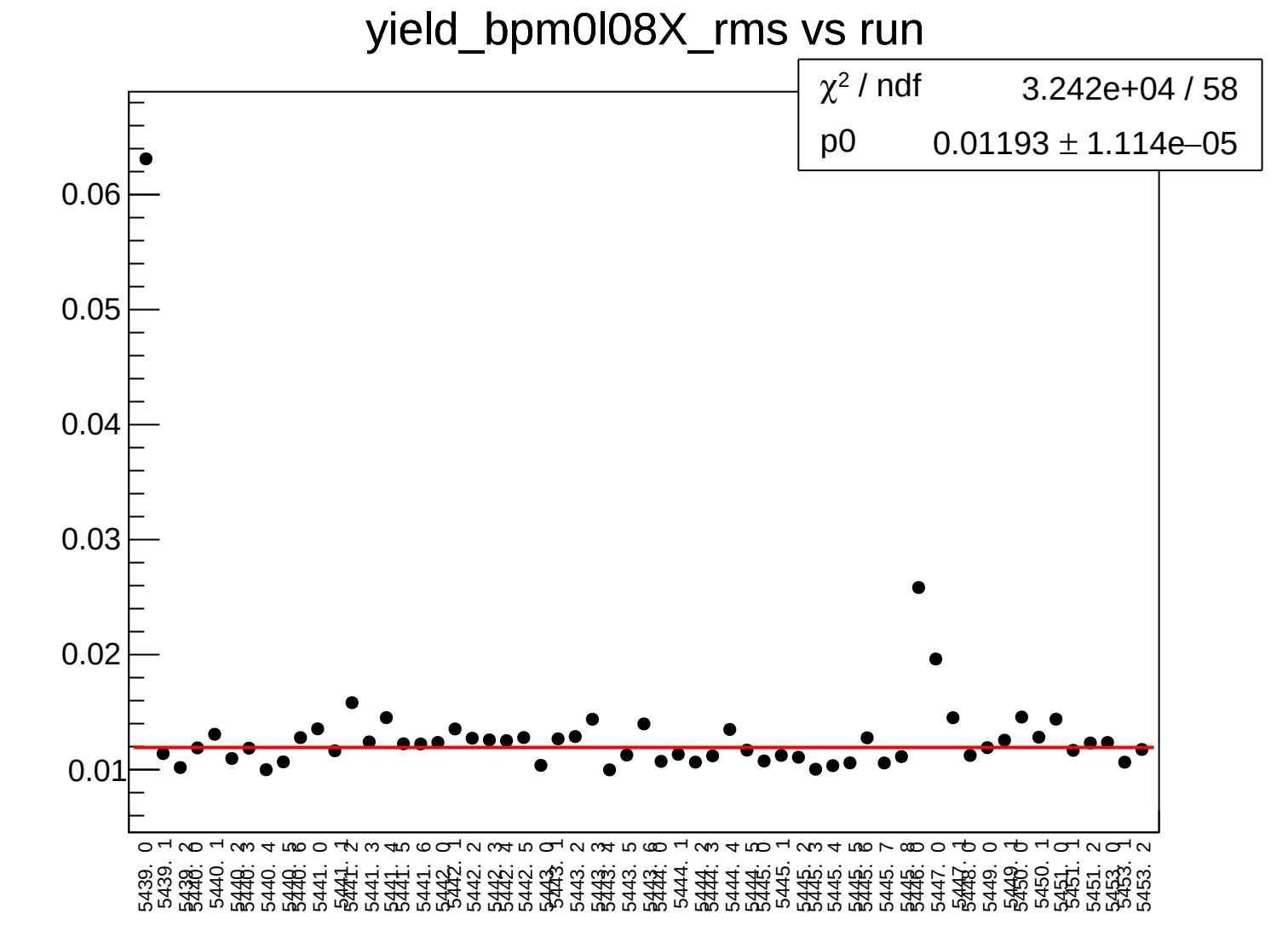

yield_bpm0l07Y_mean vs run
χ² / ndf 1.347e+06 / 58
p0 0.296 ± 3.226e−06
0.306
0.304
0.302
0.3
0.298
0.296
0.294
0.292
0.29
0.288
pull
Entries 59
Mean 136.9
Std Dev 141.2
300
200
100
0
−100
−200

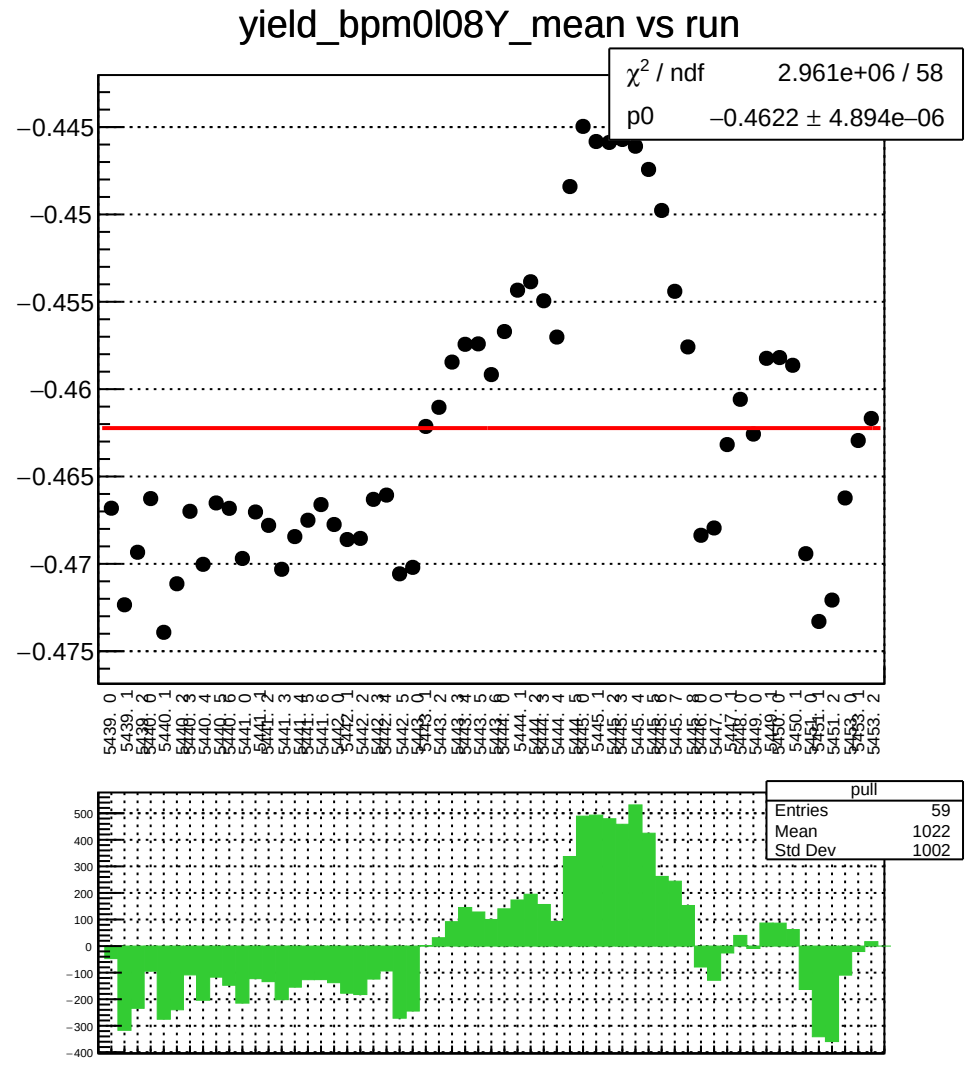

pull1D
Entries 59
Mean 3.329
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

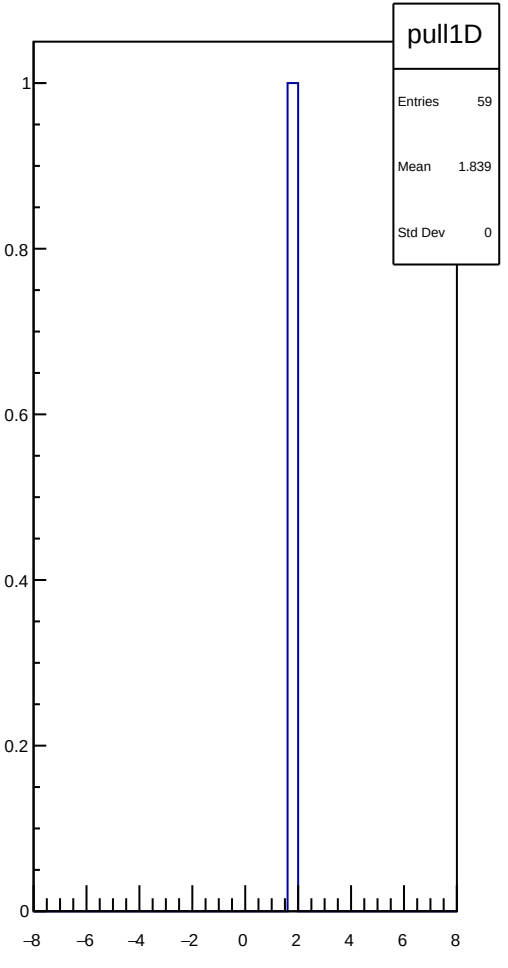

yield_bpm0l07Y_rms vs run
χ² / ndf 2.457e+04 / 58
p0 0.00245 ± 2.281e–06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

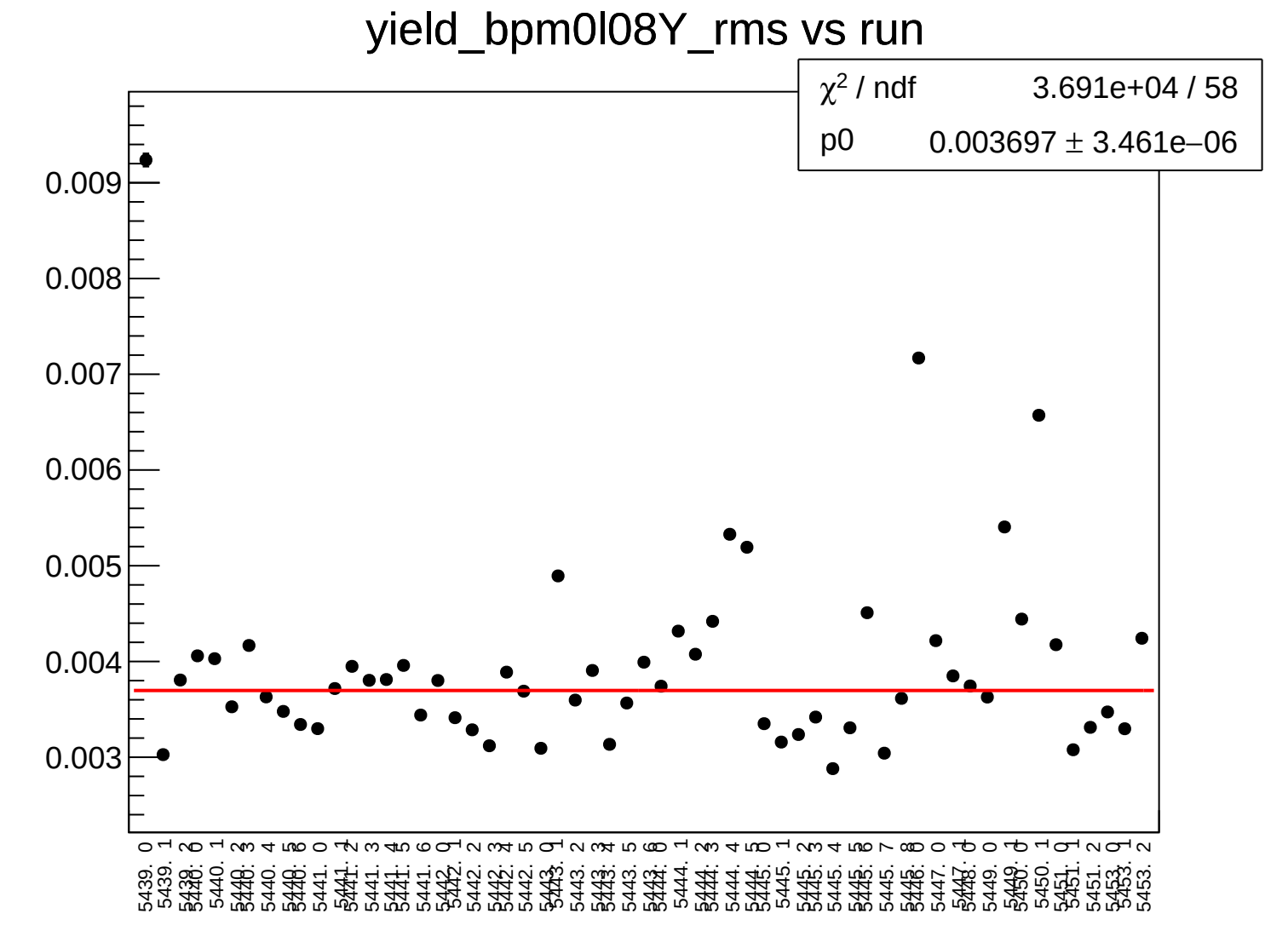

yield_bpm0l08X_mean vs run
χ² / ndf 2.166e+05 / 58
p0 0.129 ± 1.576e−05
0.15
0.14
0.13
0.12
0.11
0.1
pull
Entries 59
Mean −83.81
Std Dev 108.3
100
50
0
−50
−100

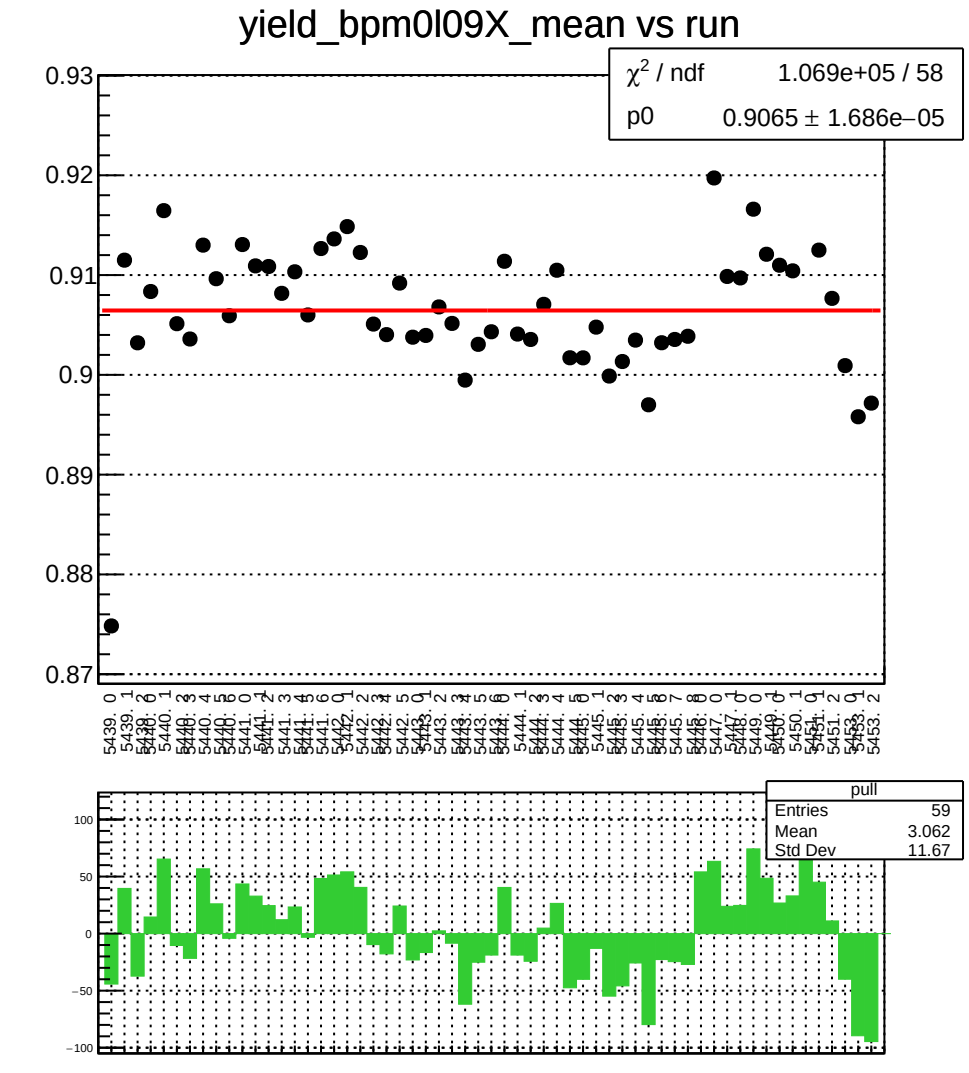

pull1D
Entries 59
Mean 0.5878
Std Dev 5.486
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

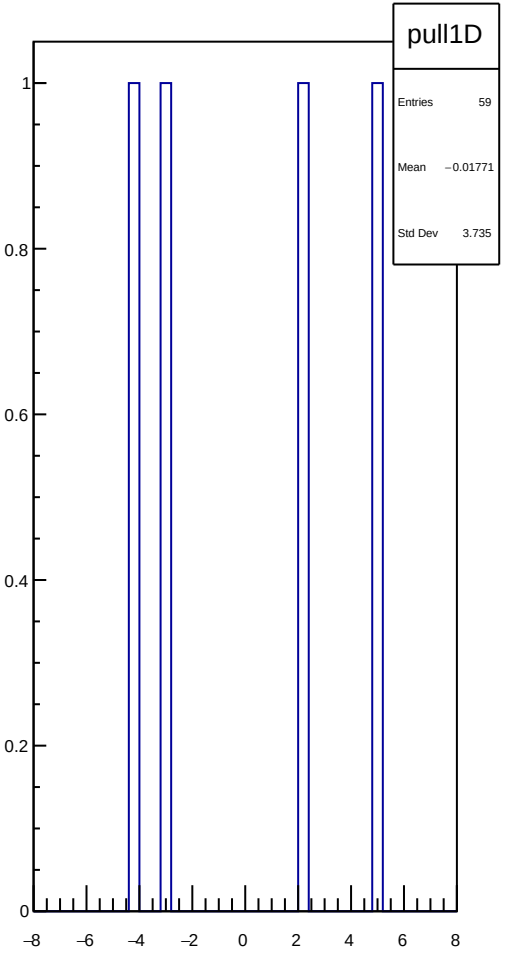

yield_bpm0l08X_rms vs run
χ² / ndf 3.242e+04 / 58
p0 0.01193 ± 1.114e−05
0.06
0.05
0.04
0.03
0.02
0.01

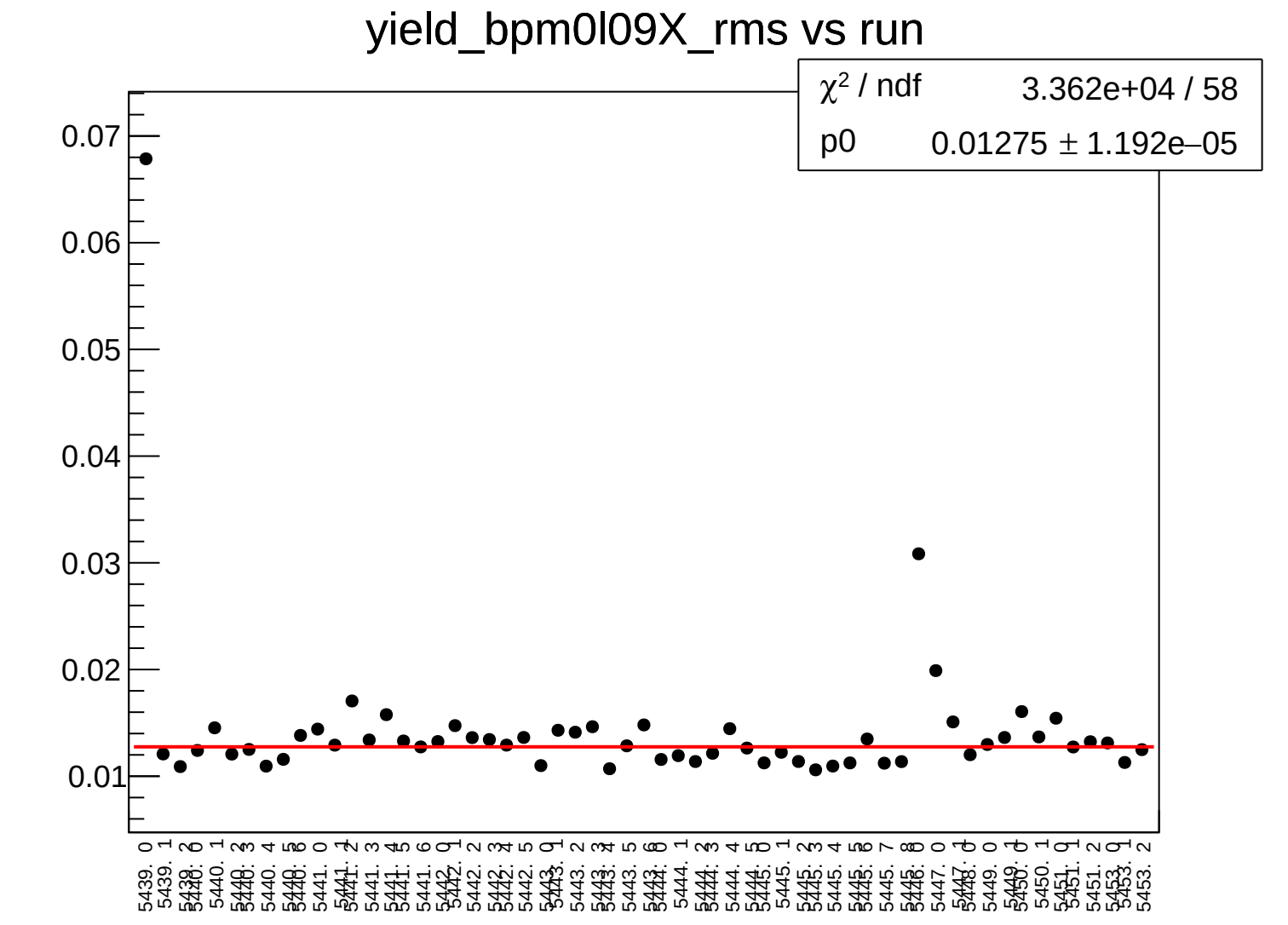

yield_bpm0l08Y_mean vs run
χ² / ndf 2.961e+06 / 58
p0 −0.4622 ± 4.894e−06
−0.445
−0.45
−0.455
−0.46
−0.465
−0.47
−0.475
pull
Entries 59
Mean 1022
Std Dev 1002
500
400
300
200
100
0
−100
−200
−300
−400

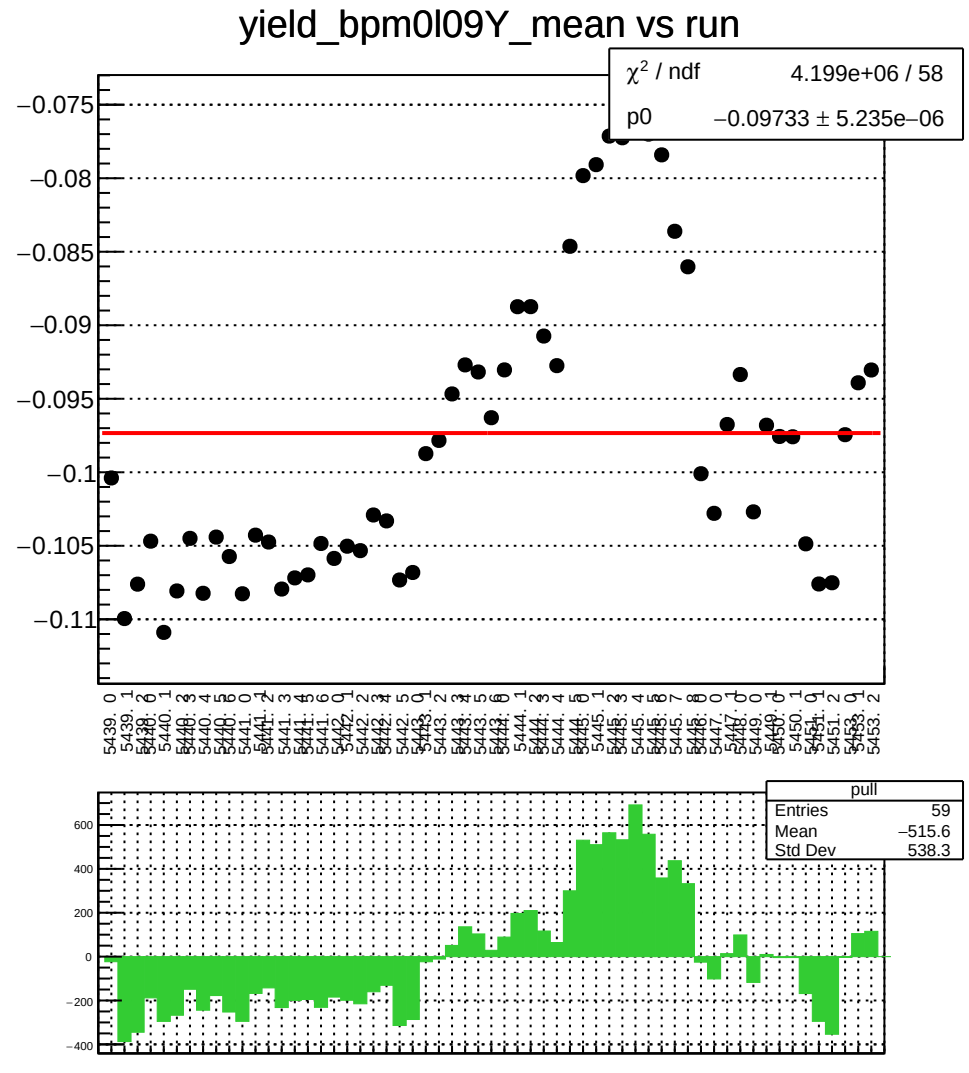

pull1D
Entries 59
Mean 1.839
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

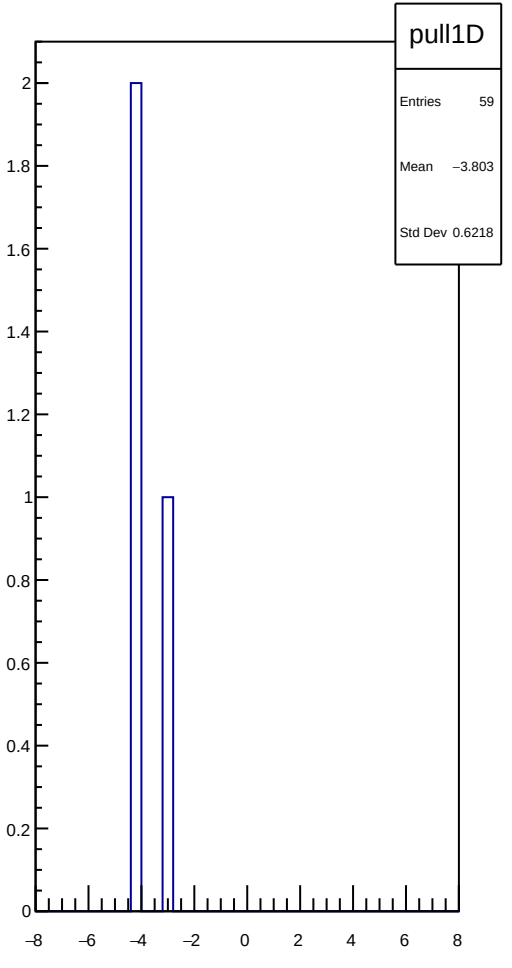

yield_bpm0l08Y_rms vs run
χ² / ndf 3.691e+04 / 58
p0 0.003697 ± 3.461e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

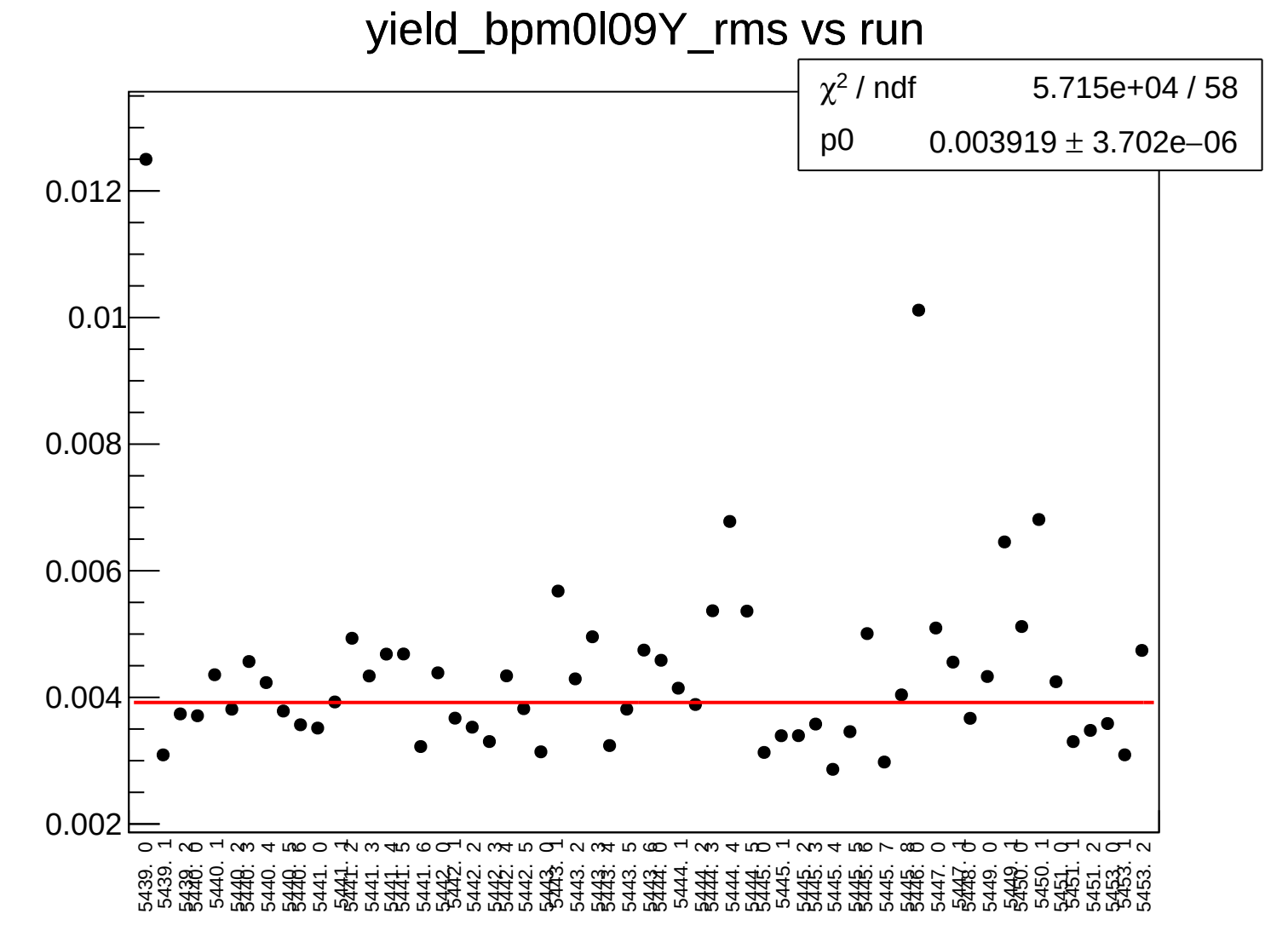

yield_bpm0l09X_mean vs run
χ² / ndf 1.069e+05 / 58
p0 0.9065 ± 1.686e−05
pull
Entries 59
Mean 3.062
Std Dev 11.67

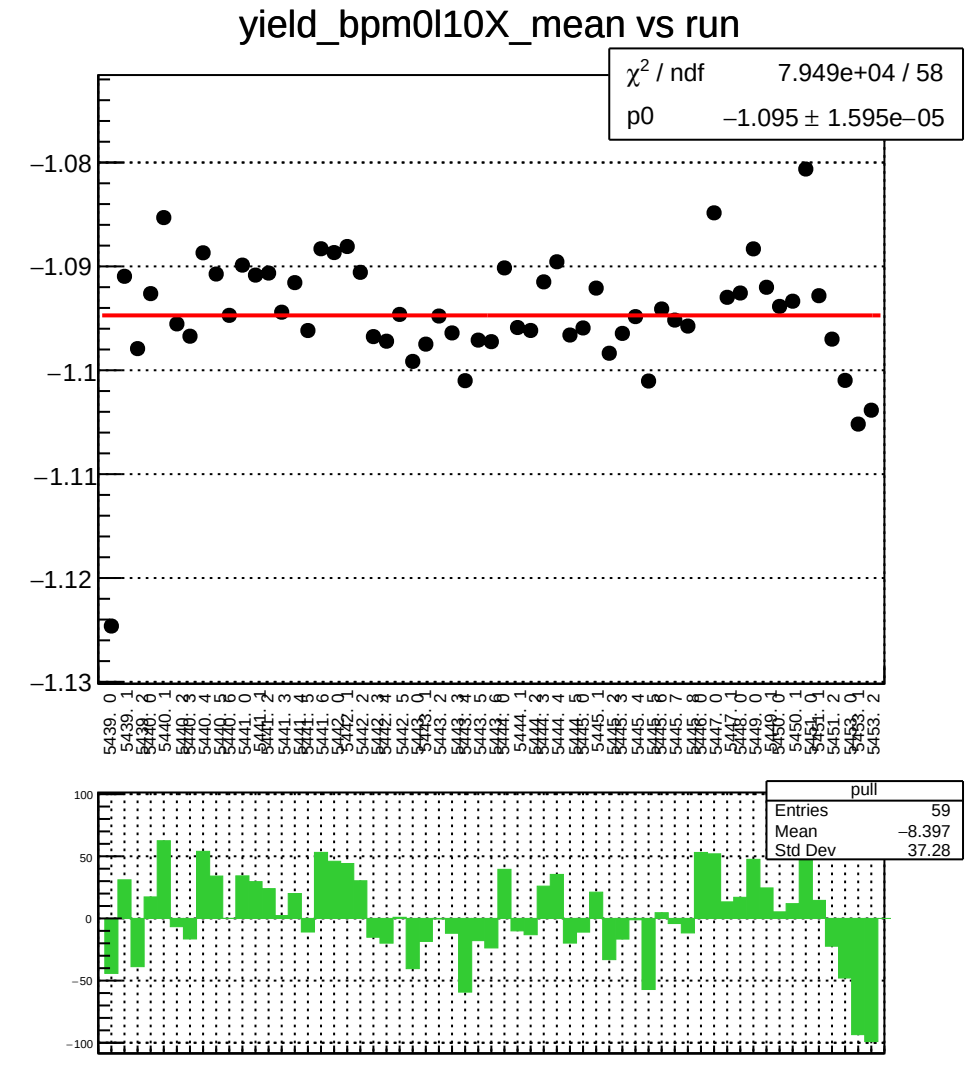

pull1D
Entries 59
Mean −0.01771
Std Dev 3.735

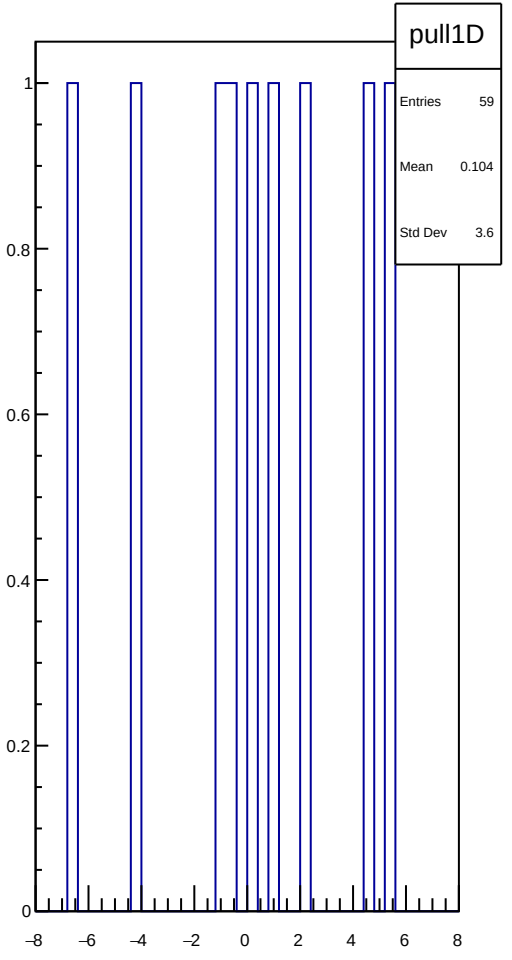

yield_bpm0l09X_rms vs run
χ² / ndf 3.362e+04 / 58
p0 0.01275 ± 1.192e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

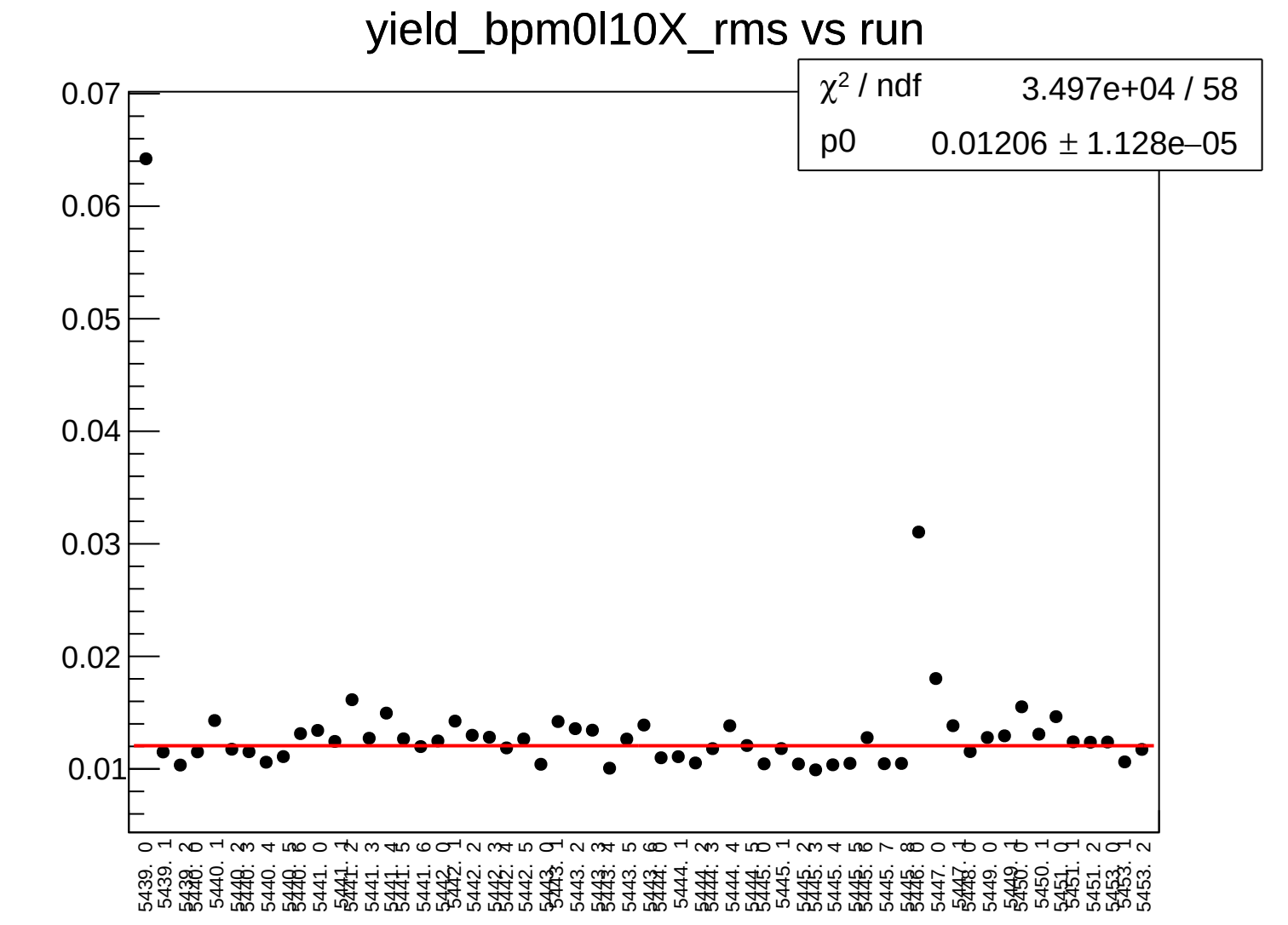

yield_bpm0l09Y_mean vs run
χ² / ndf 4.199e+06 / 58
p0 −0.09733 ± 5.235e−06
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
−0.105
−0.11
pull
Entries 59
Mean −515.6
Std Dev 538.3
600
400
200
0
−200
−400

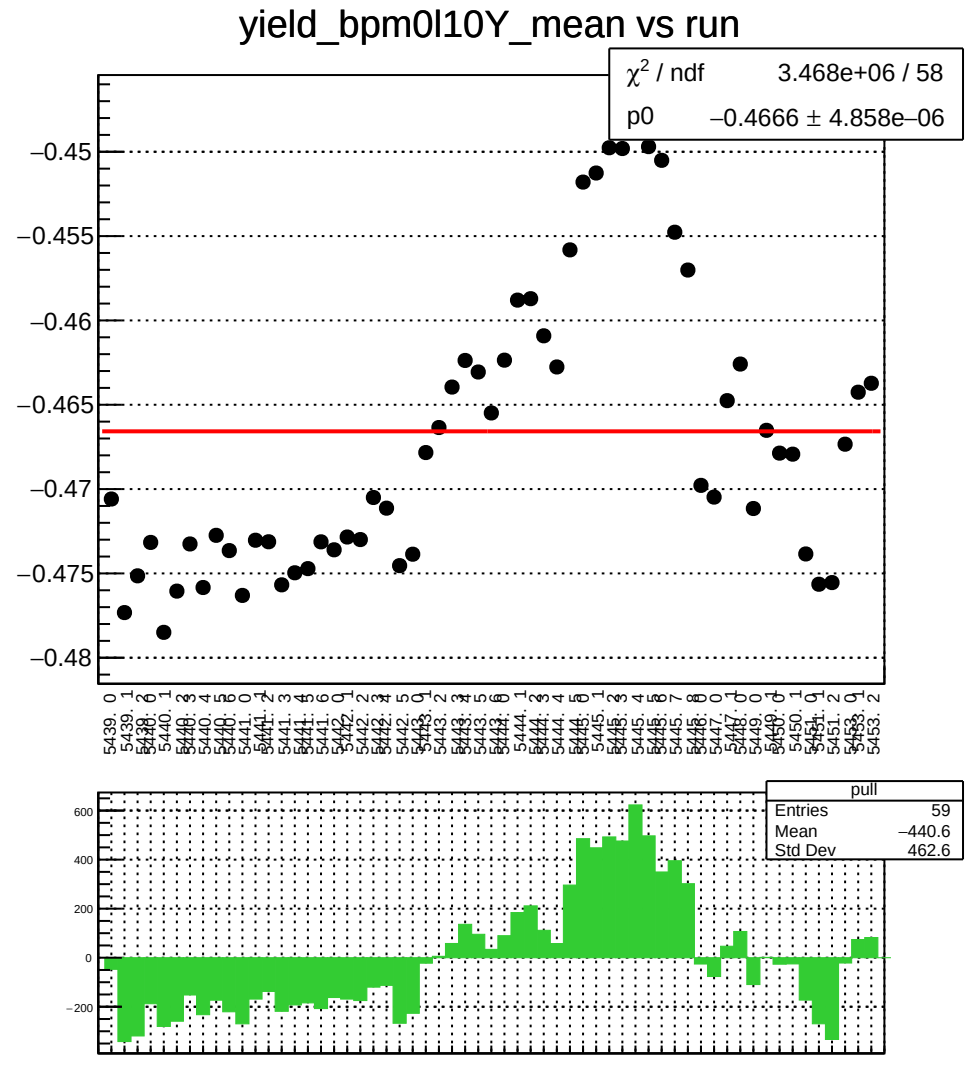

pull1D
Entries 59
Mean −3.803
Std Dev 0.6218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

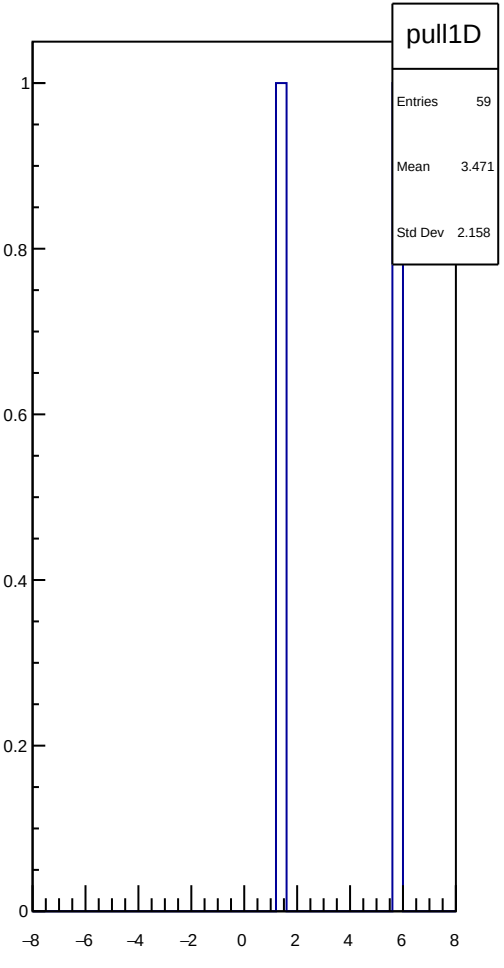

yield_bpm0l09Y_rms vs run
χ² / ndf 5.715e+04 / 58
p0 0.003919 ± 3.702e−06
0.012
0.01
0.008
0.006
0.004
0.002

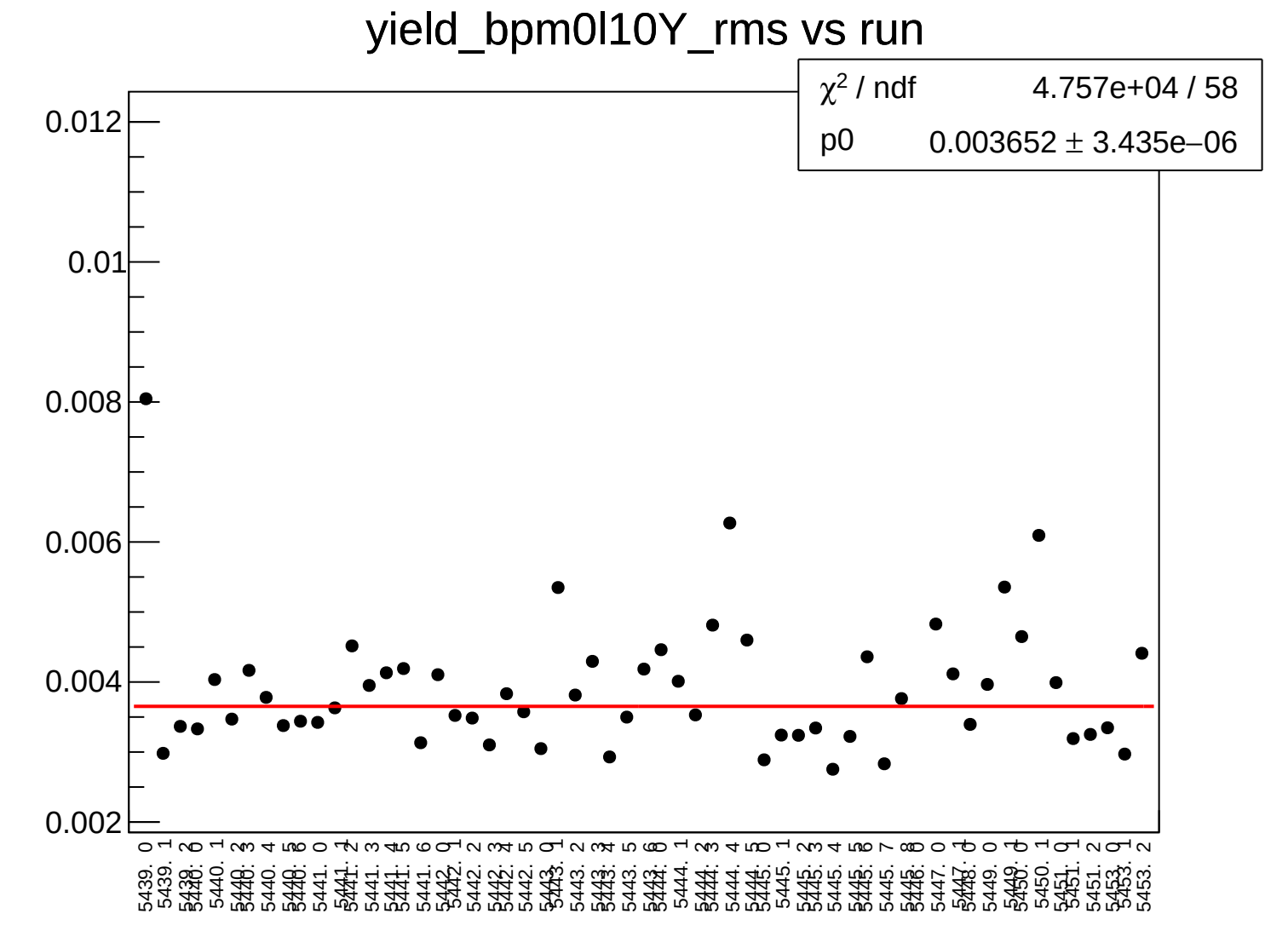

yield_bpm0l10X_mean vs run
χ² / ndf 7.949e+04 / 58
p0 −1.095 ± 1.595e−05
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
pull
Entries 59
Mean −8.397
Std Dev 37.28
100
50
0
−50
−100

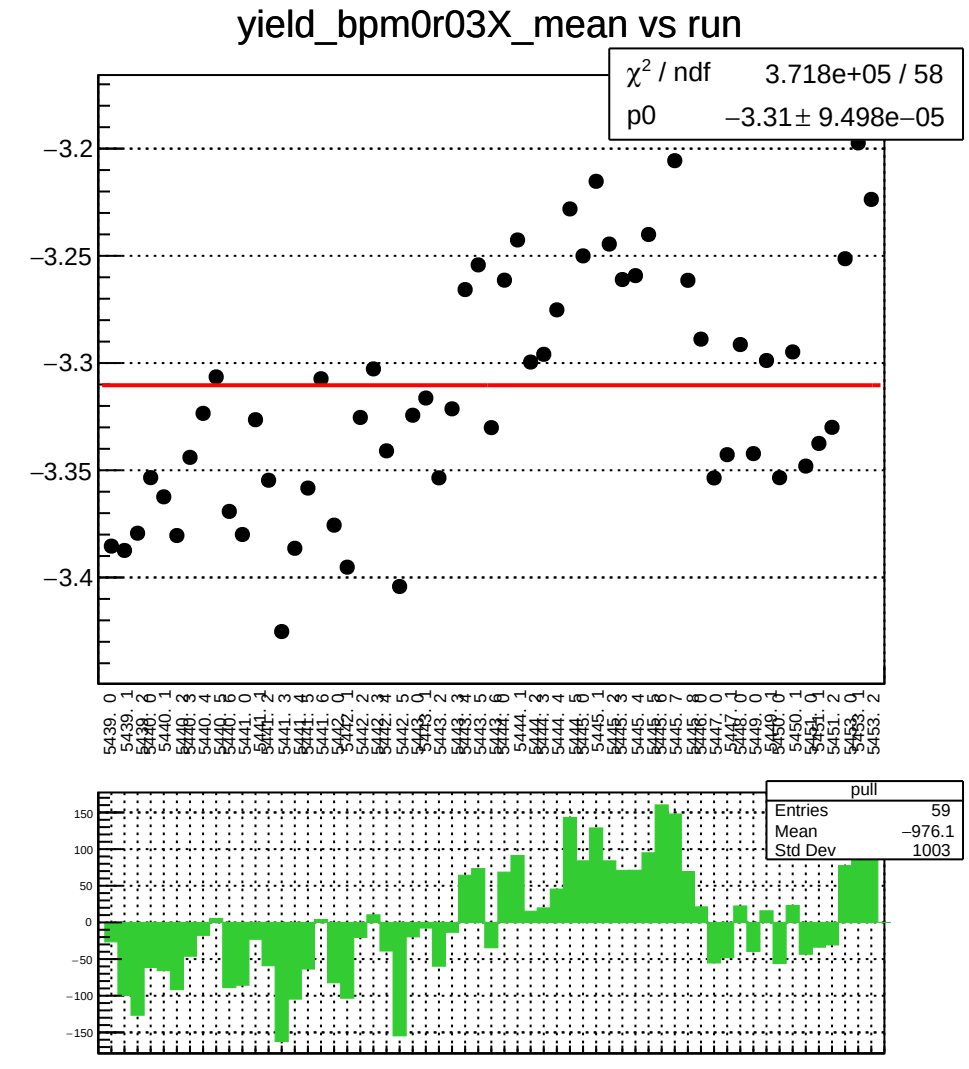

pull1D
Entries 59
Mean 0.104
Std Dev 3.6
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

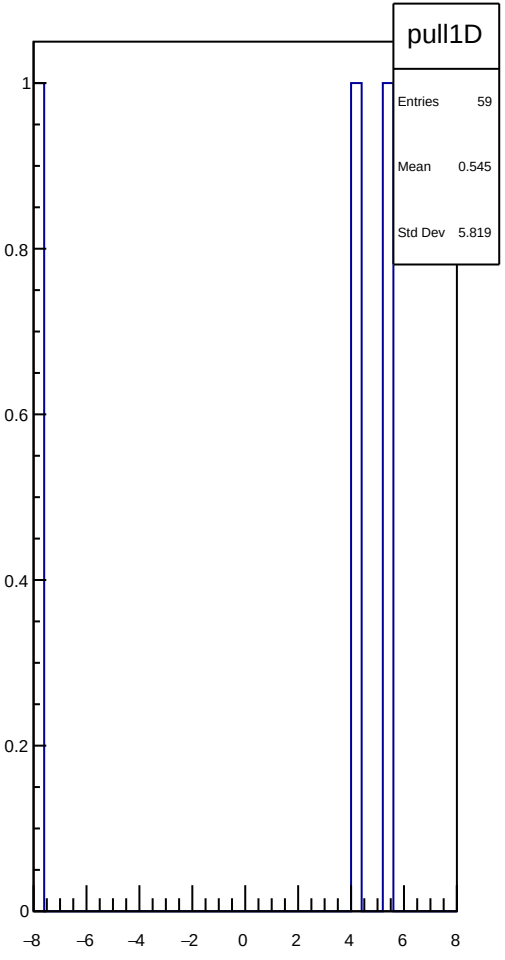

yield_bpm0l10X_rms vs run
χ² / ndf 3.497e+04 / 58
p0 0.01206 ± 1.128e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

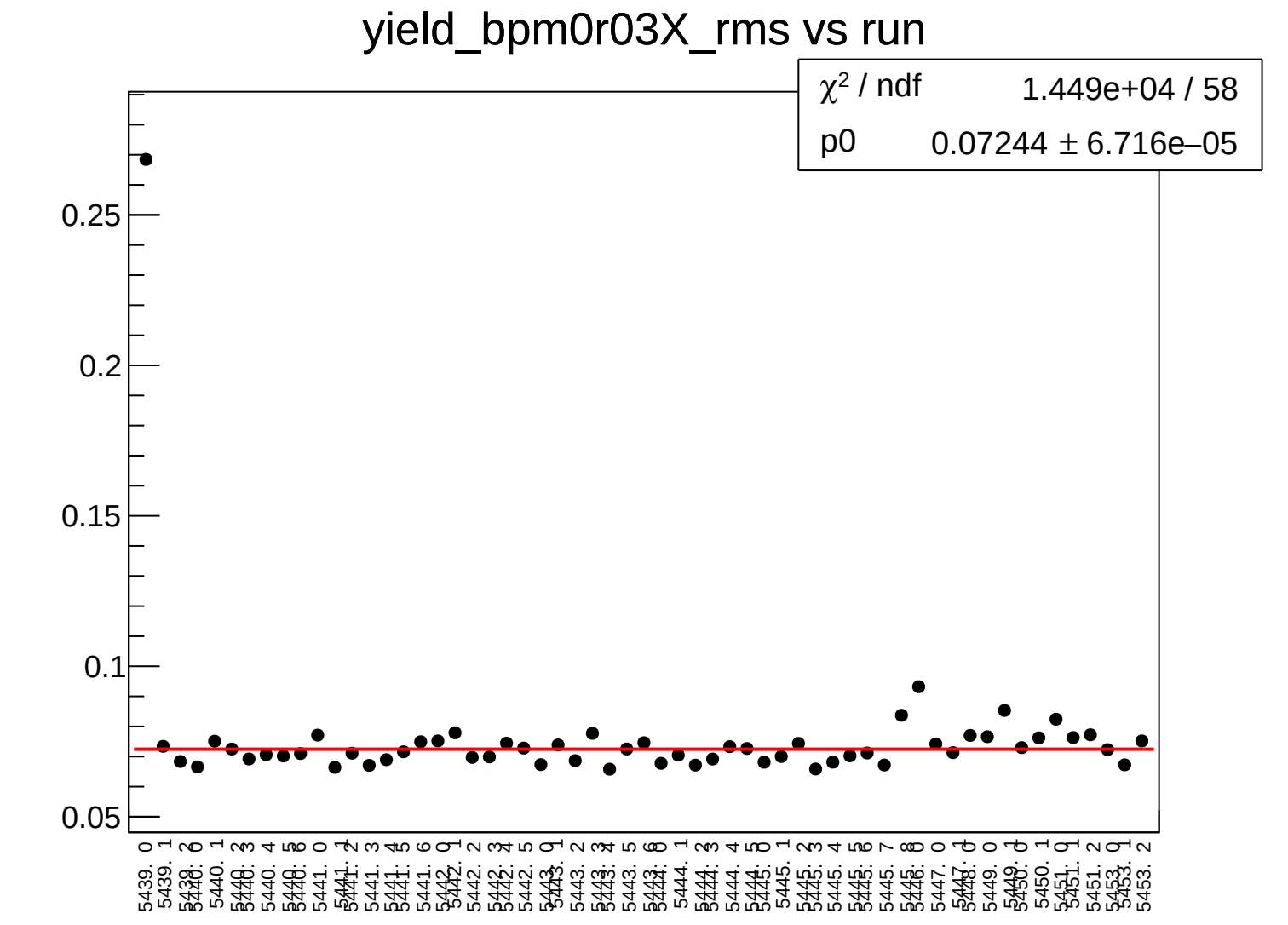

yield_bpm0l10Y_mean vs run
χ² / ndf 3.468e+06 / 58
p0 −0.4666 ± 4.858e−06
−0.45
−0.455
−0.46
−0.465
−0.47
−0.475
−0.48
pull
Entries 59
Mean −440.6
Std Dev 462.6
600
400
200
0
−200

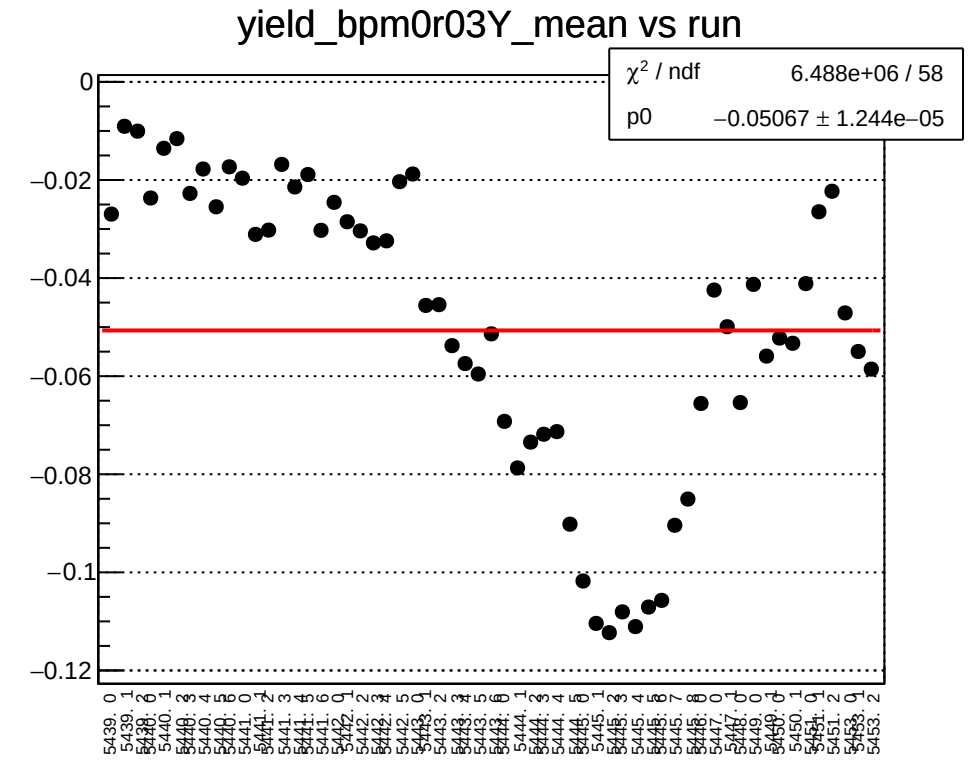

pull1D
Entries 59
Mean 3.471
Std Dev 2.158
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

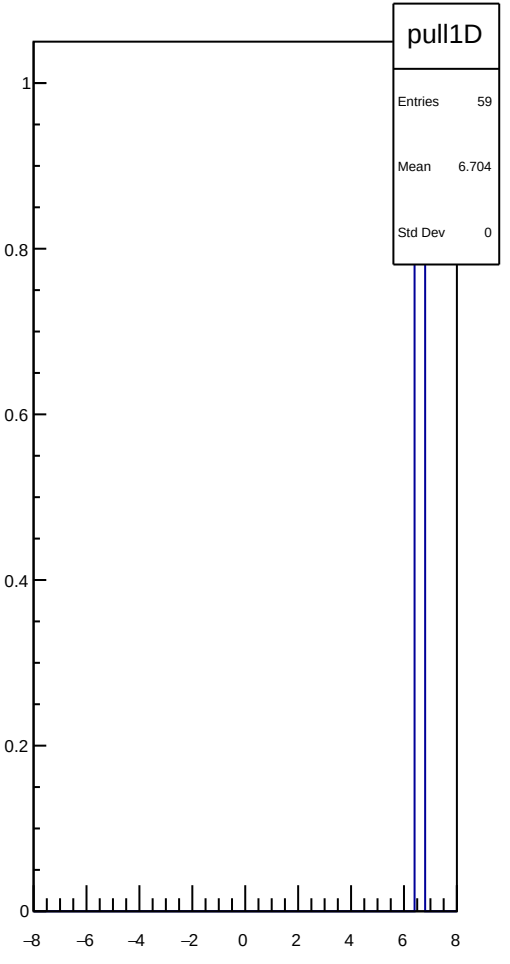

yield_bpm0l10Y_rms vs run
χ² / ndf 4.757e+04 / 58
p0 0.003652 ± 3.435e−06
0.012
0.01
0.008
0.006
0.004
0.002

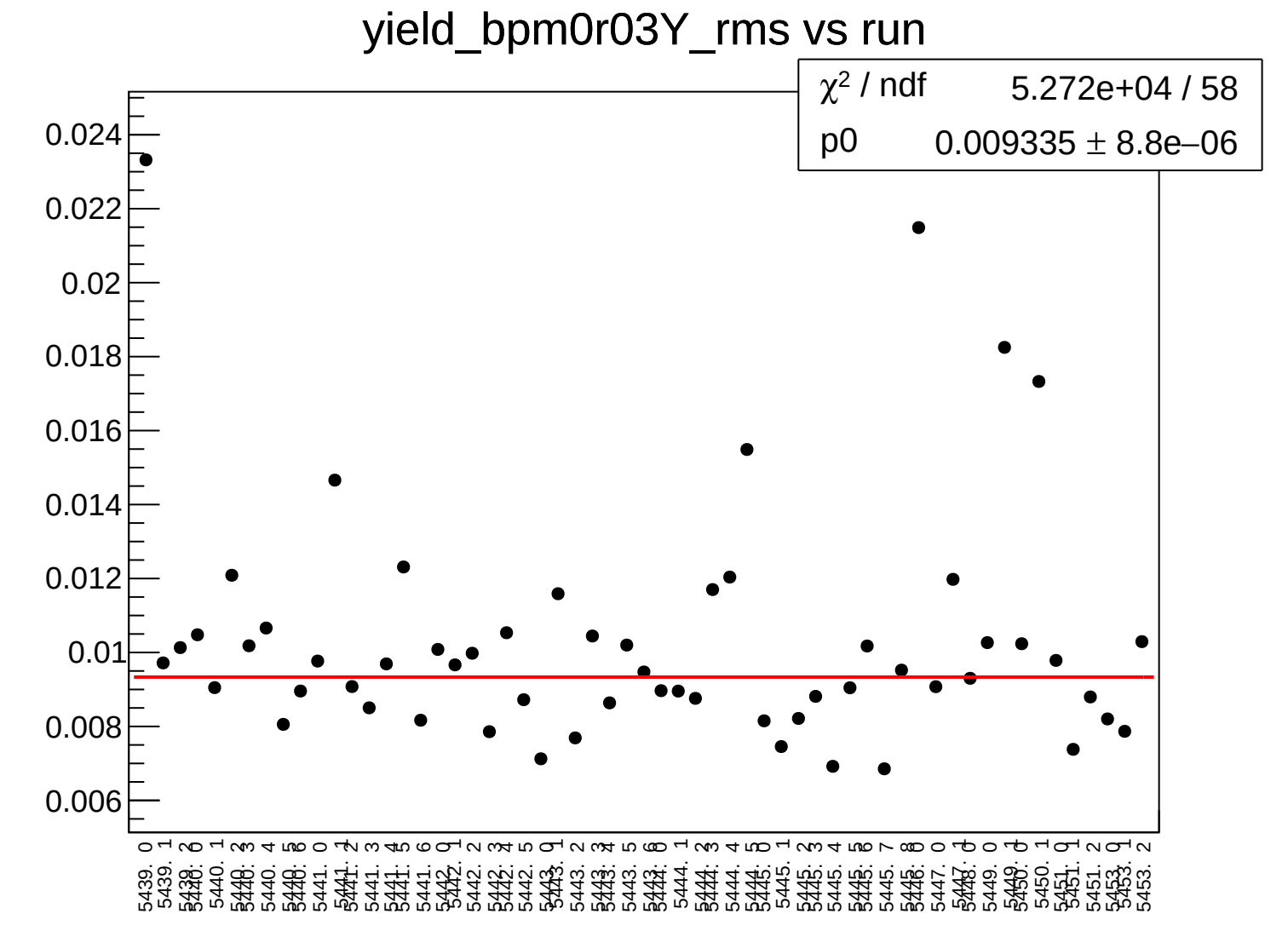

yield_bpm0r03X_mean vs run
χ² / ndf 3.718e+05 / 58
p0 −3.31 ± 9.498e−05
−3.2
−3.25
−3.3
−3.35
−3.4
pull
Entries 59
Mean −976.1
Std Dev 1003
150
100
50
0
−50
−100
−150

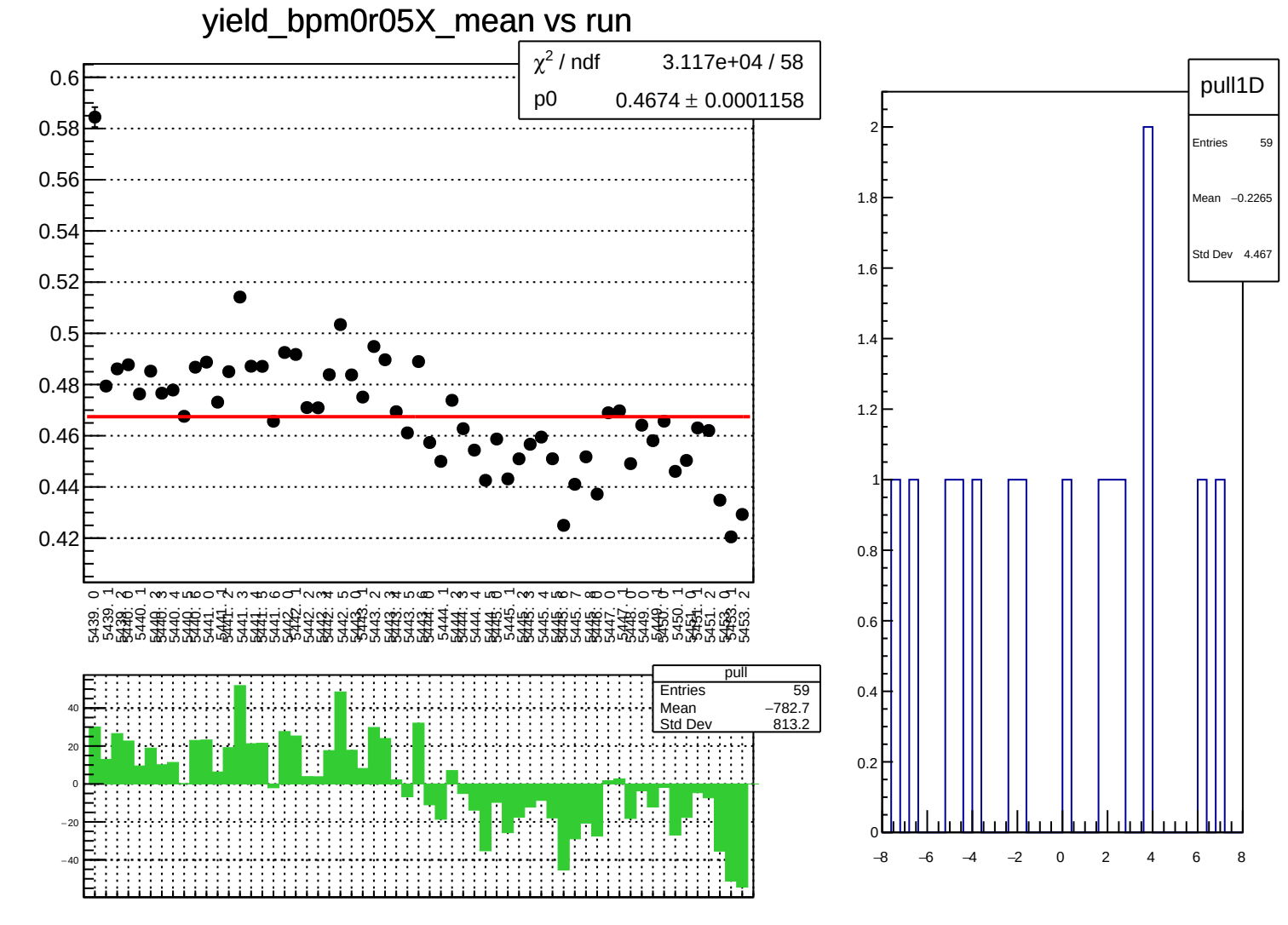

pull1D
Entries 59
Mean 0.545
Std Dev 5.819
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

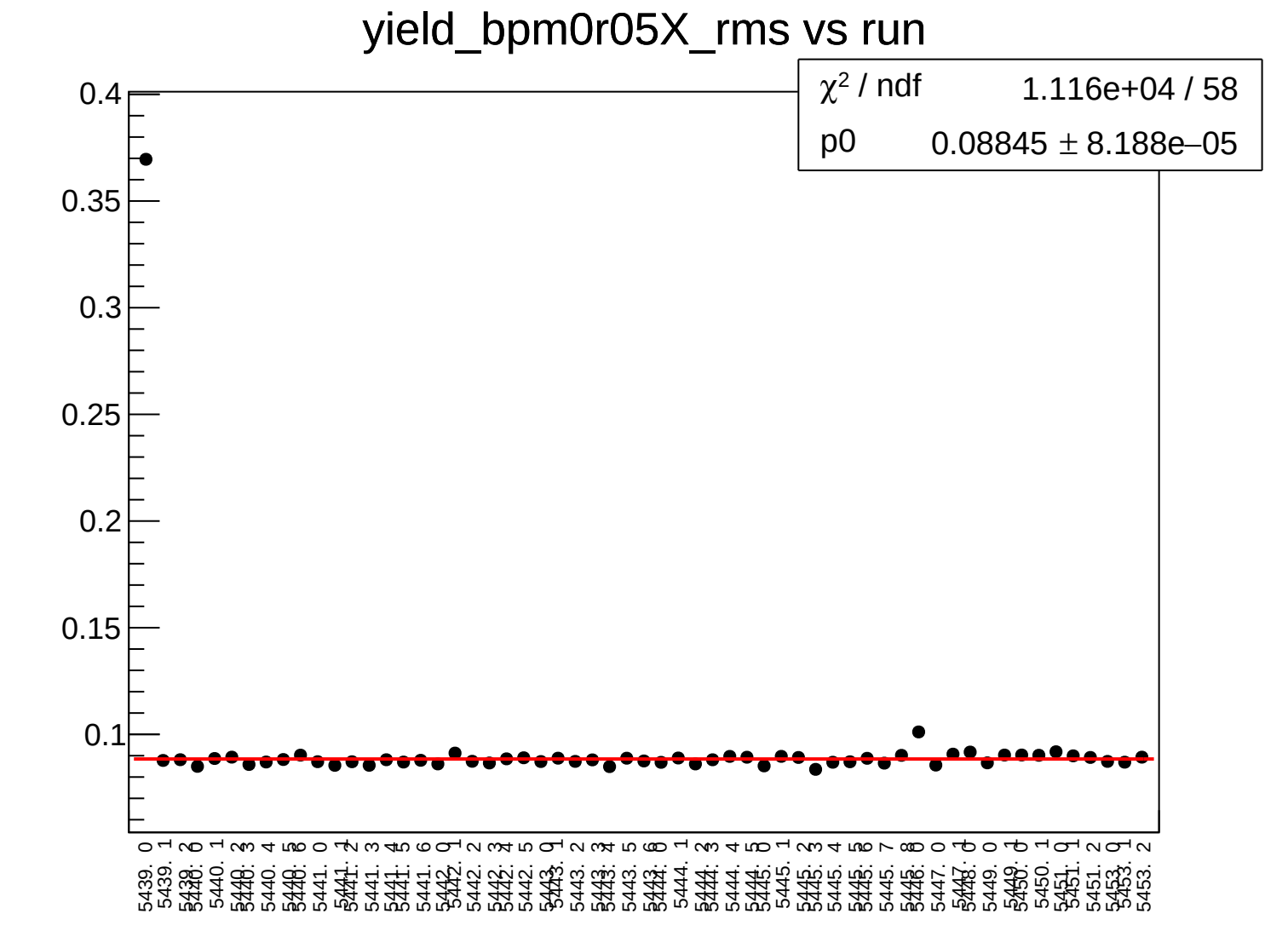

yield_bpm0r03X_rms vs run
χ² / ndf 1.449e+04 / 58
p0 0.07244 ± 6.716e–05
0.25
0.2
0.15
0.1
0.05

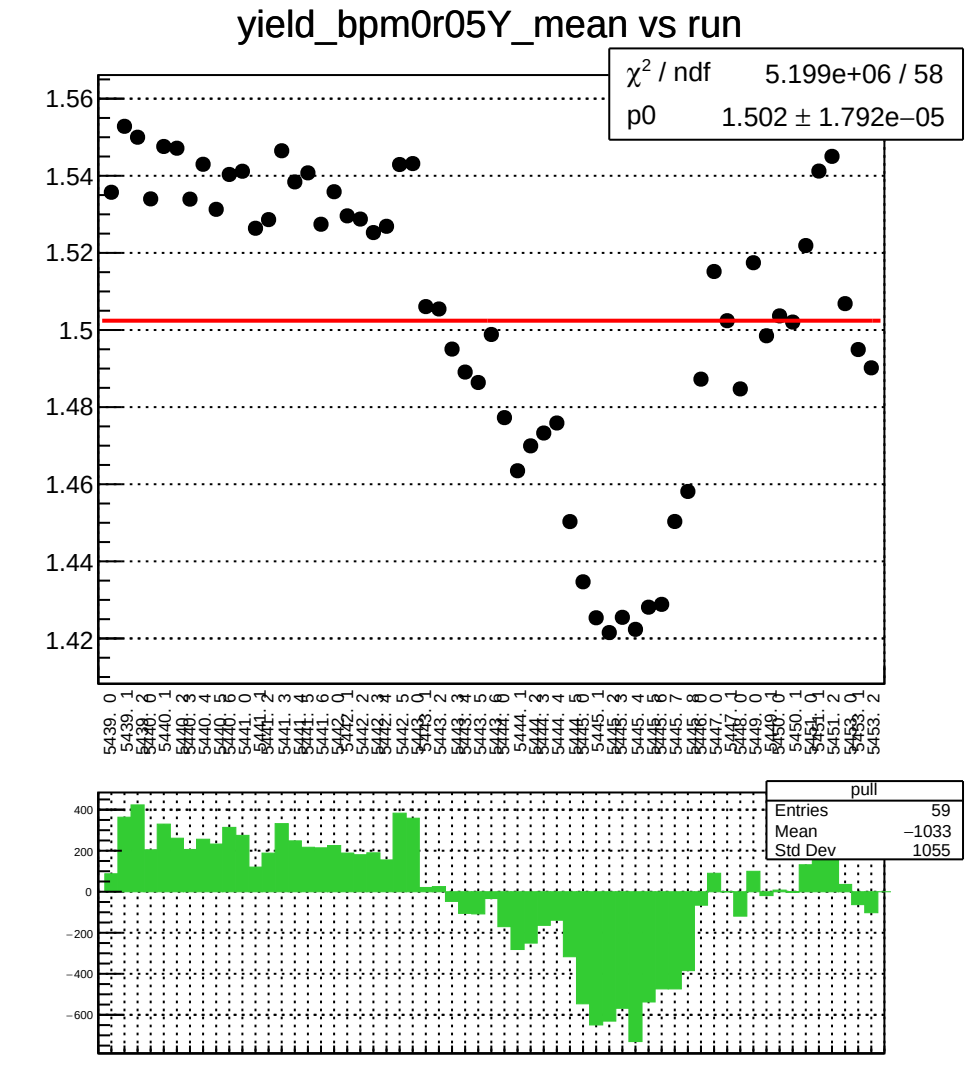

yield_bpm0r03Y_mean vs run
χ² / ndf 6.488e+06 / 58
p0 −0.05067 ± 1.244e−05
0
−0.02
−0.04
−0.06
−0.08
−0.1
−0.12
pull
Entries 59
Mean −417
Std Dev 440
400
200
0
−200
−400
−600
−800

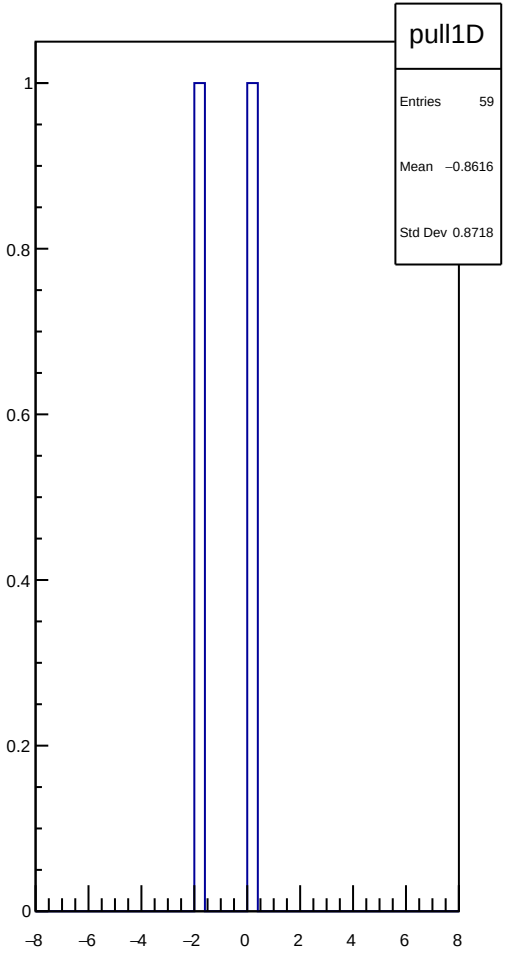

pull1D
Entries 59
Mean 6.704
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

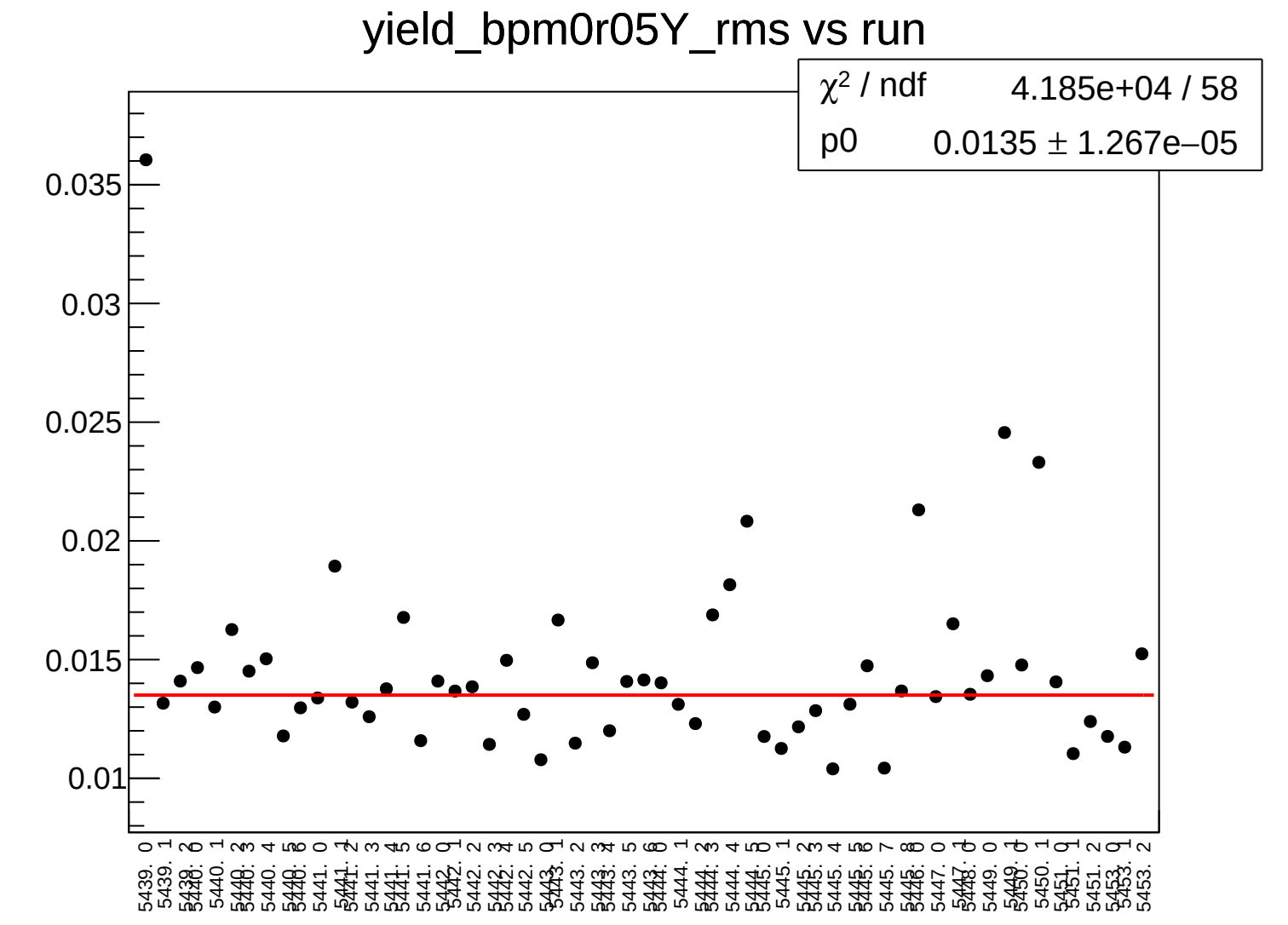

yield_bpm0r03Y_rms vs run
χ² / ndf 5.272e+04 / 58
p0 0.009335 ± 8.8e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

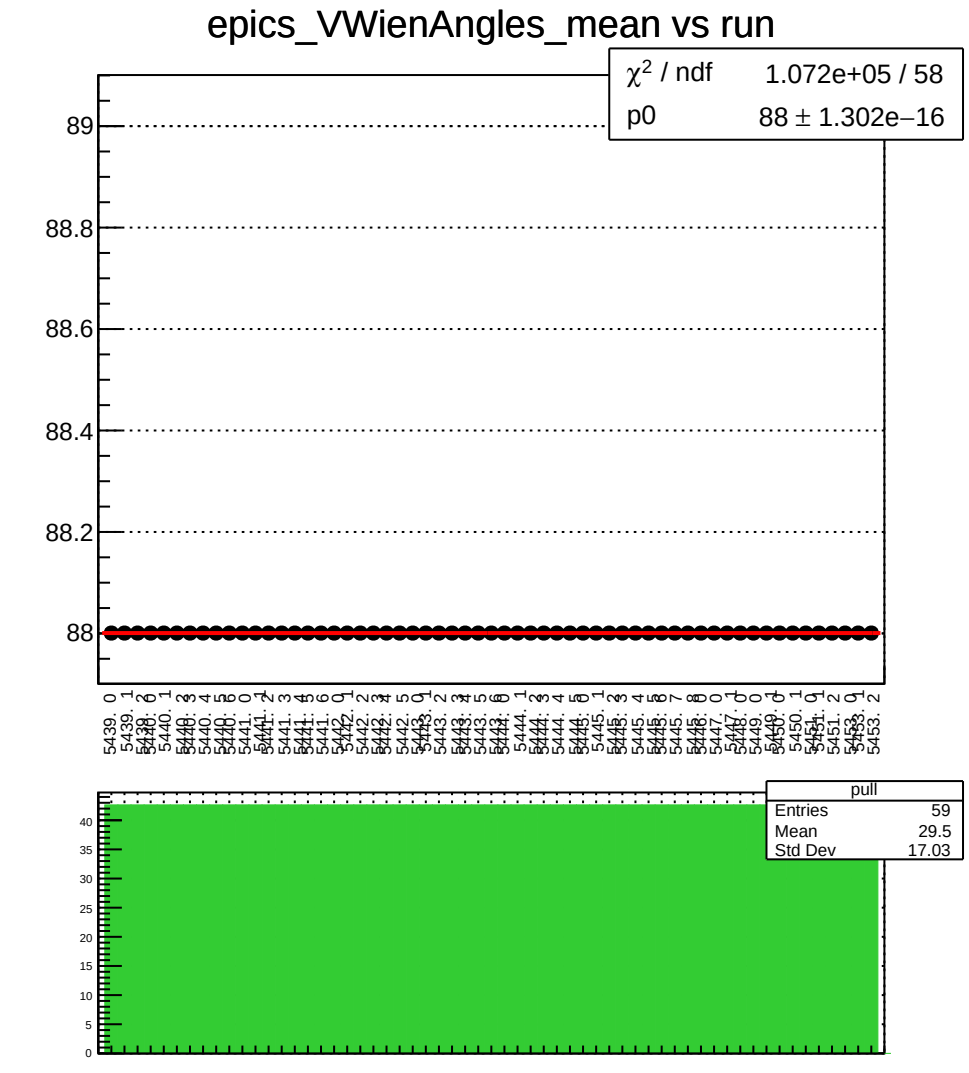

yield_bpm0r05X_mean vs run
χ² / ndf 3.117e+04 / 58
p0 0.4674 ± 0.0001158
pull
Entries 59
Mean −782.7
Std Dev 813.2
pull1D
Entries 59
Mean −0.2265
Std Dev 4.467

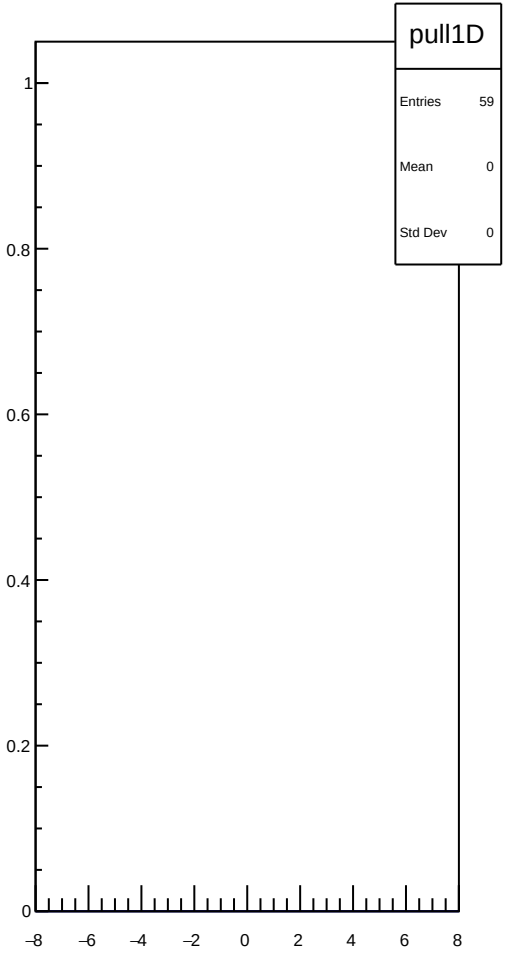

yield_bpm0r05X_rms vs run
χ² / ndf 1.116e+04 / 58
p0 0.08845 ± 8.188e–05
0.4
0.35
0.3
0.25
0.2
0.15
0.1

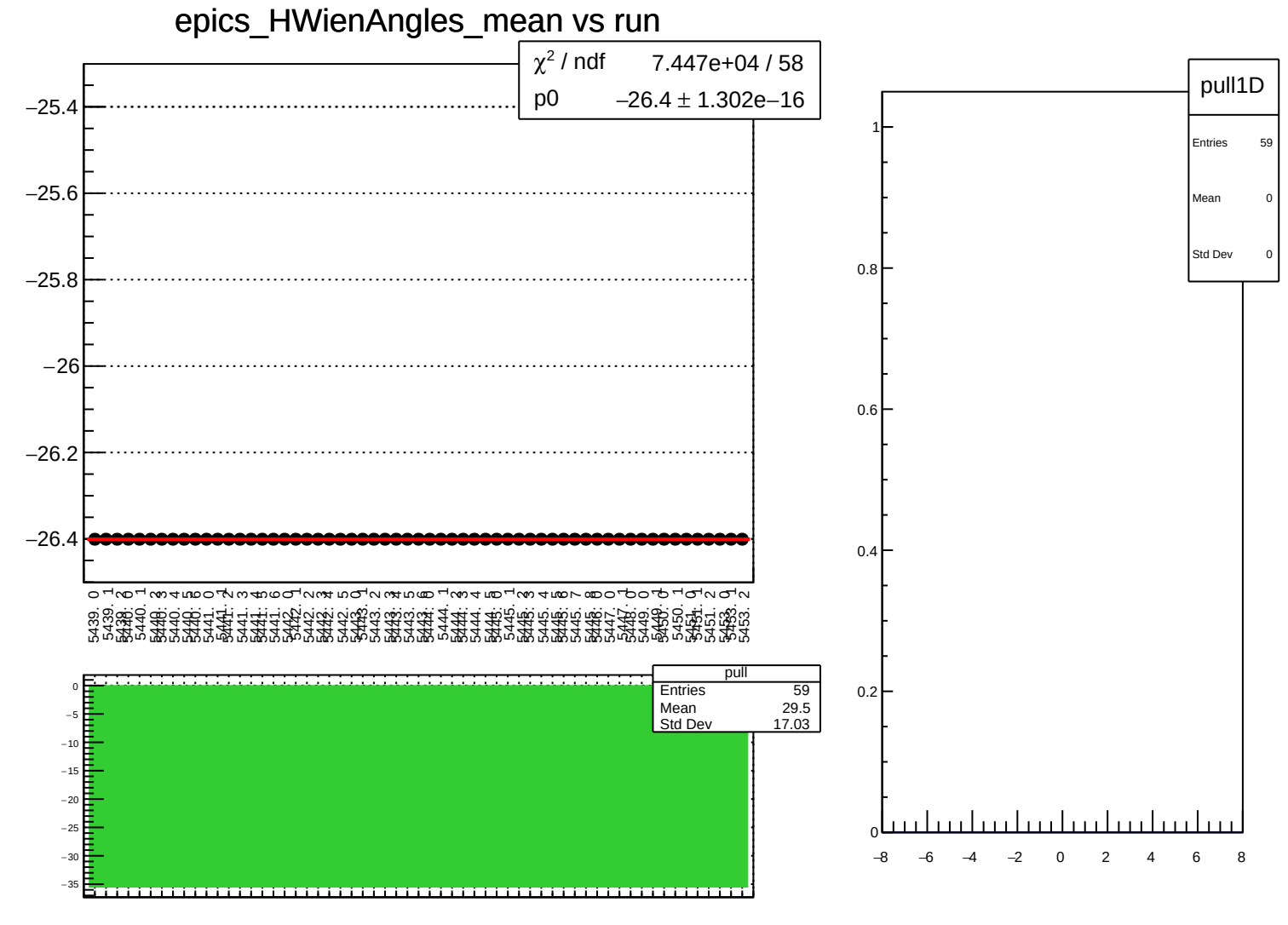

yield_bpm0r05Y_mean vs run
χ² / ndf 5.199e+06 / 58
p0 1.502 ± 1.792e−05
1.56
1.54
1.52
1.5
1.48
1.46
1.44
1.42
pull
Entries 59
Mean −1033
Std Dev 1055
400
200
0
−200
−400
−600

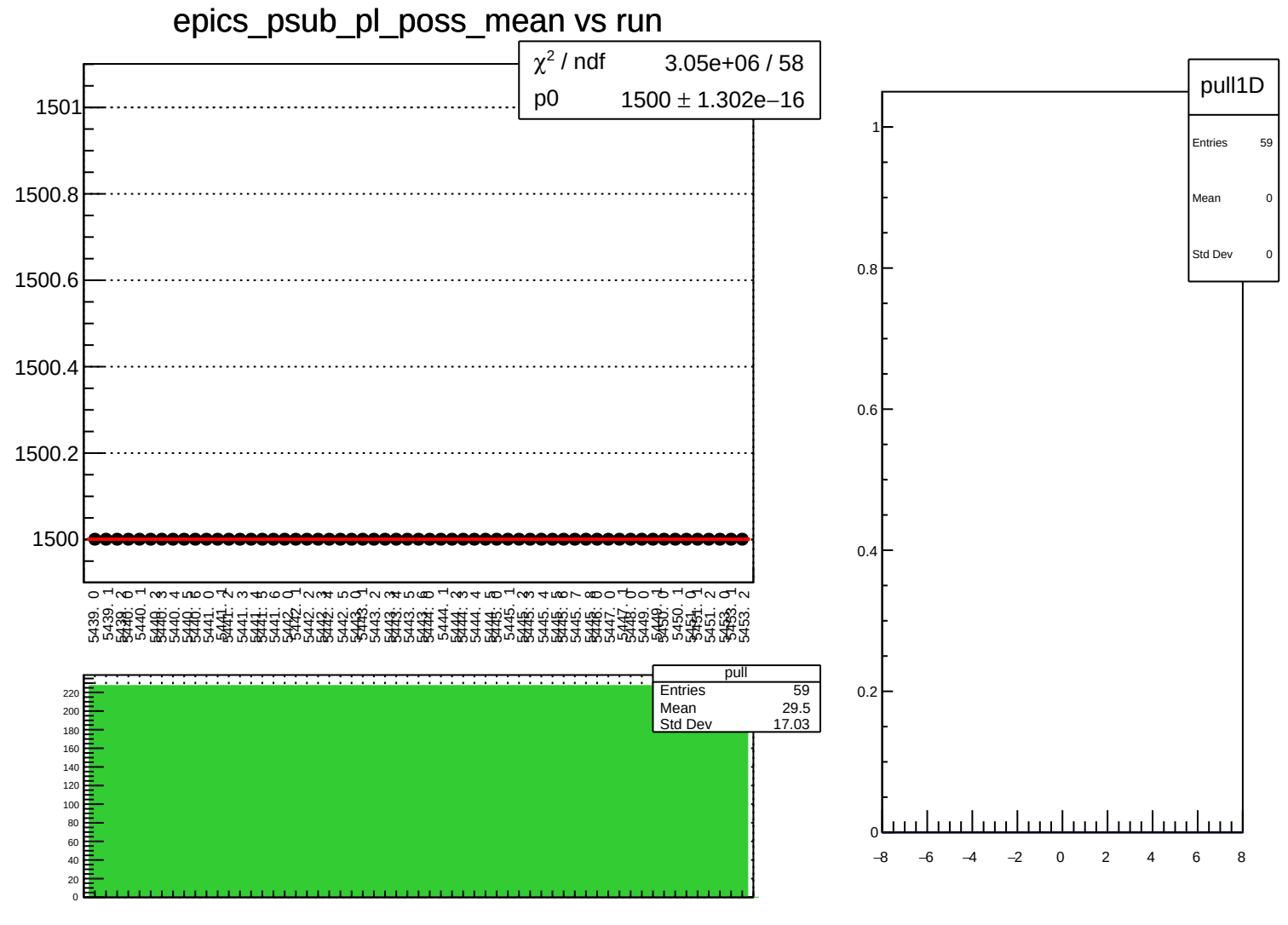

pull1D
Entries 59
Mean −0.8616
Std Dev 0.8718
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

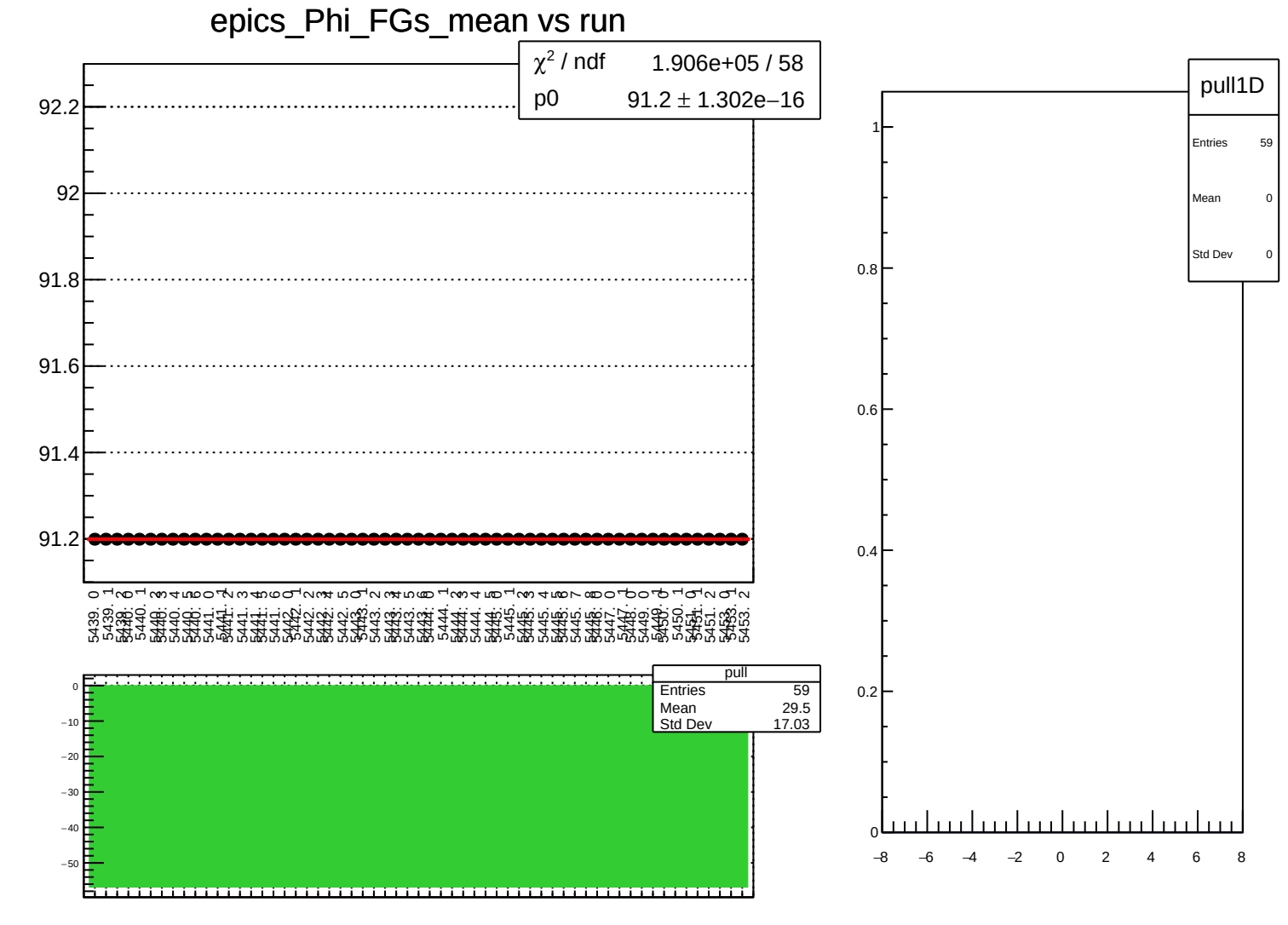

yield_bpm0r05Y_rms vs run
χ² / ndf 4.185e+04 / 58
p0 0.0135 ± 1.267e−05
0.035
0.03
0.025
0.02
0.015
0.01

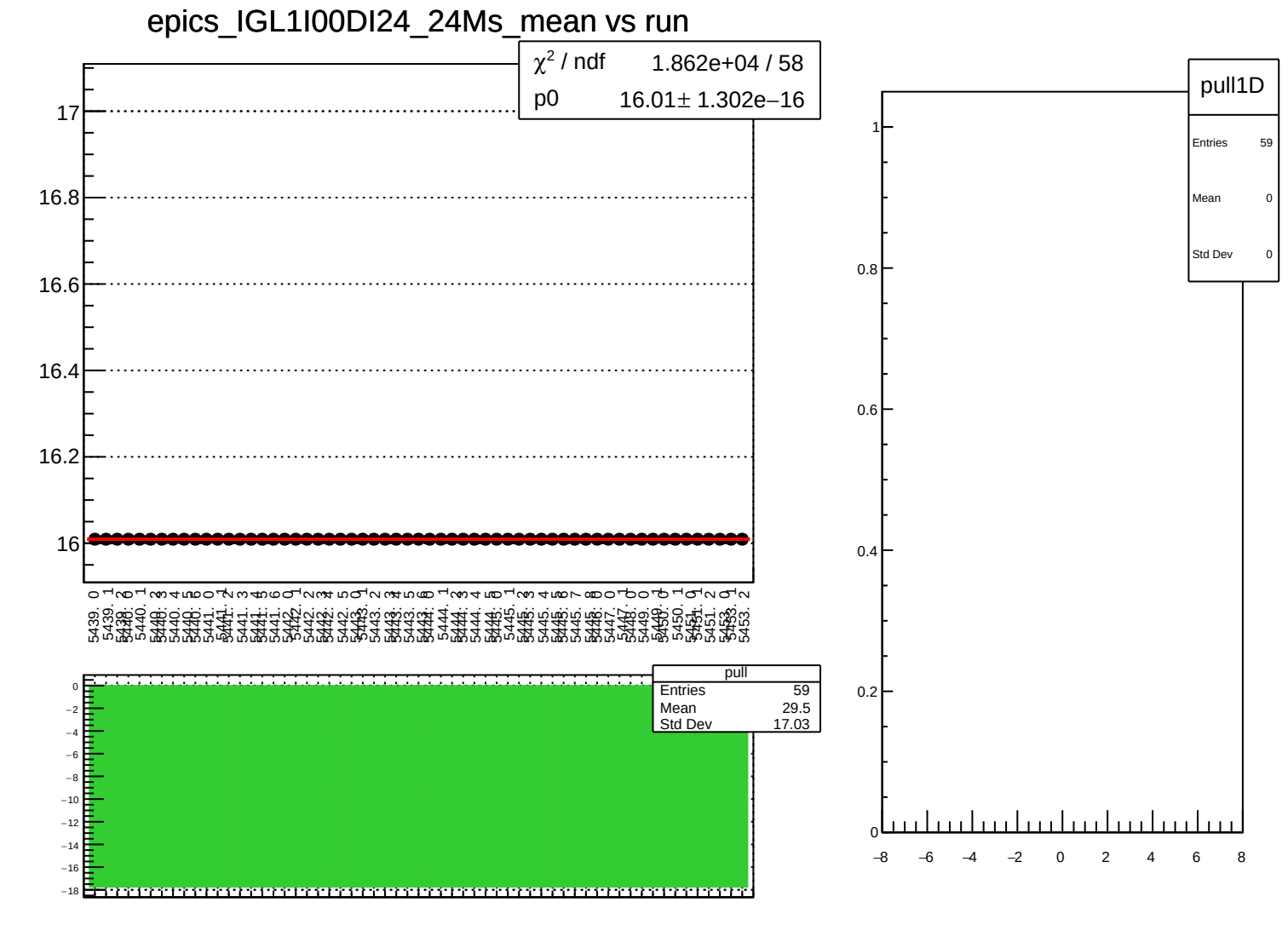

epics_VWienAngles_mean vs run
χ² / ndf 1.072e+05 / 58
p0 88 ± 1.302e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 59
Mean 29.5
Std Dev 17.03
40
35
30
25
20
15
10
5
0

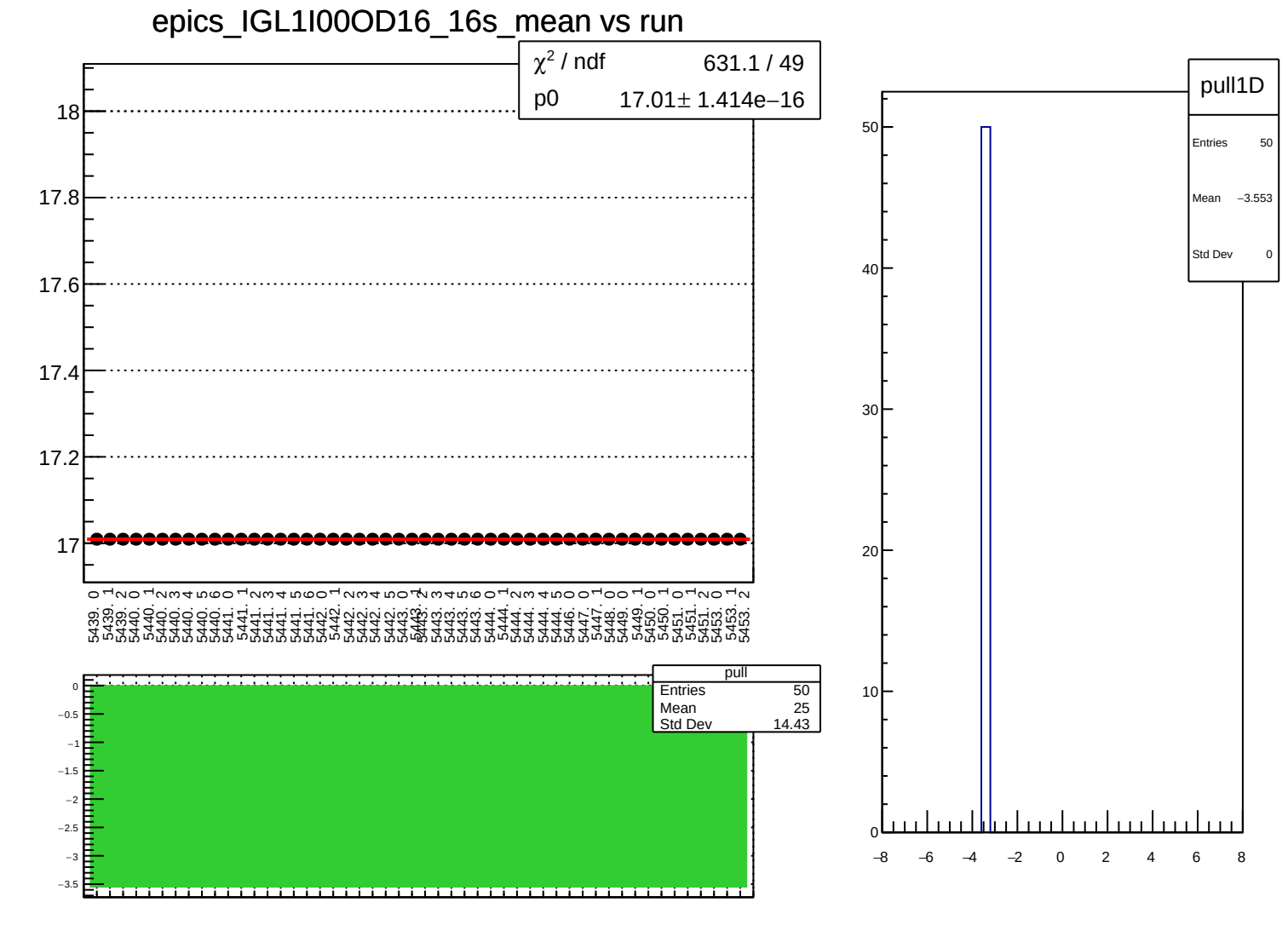

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

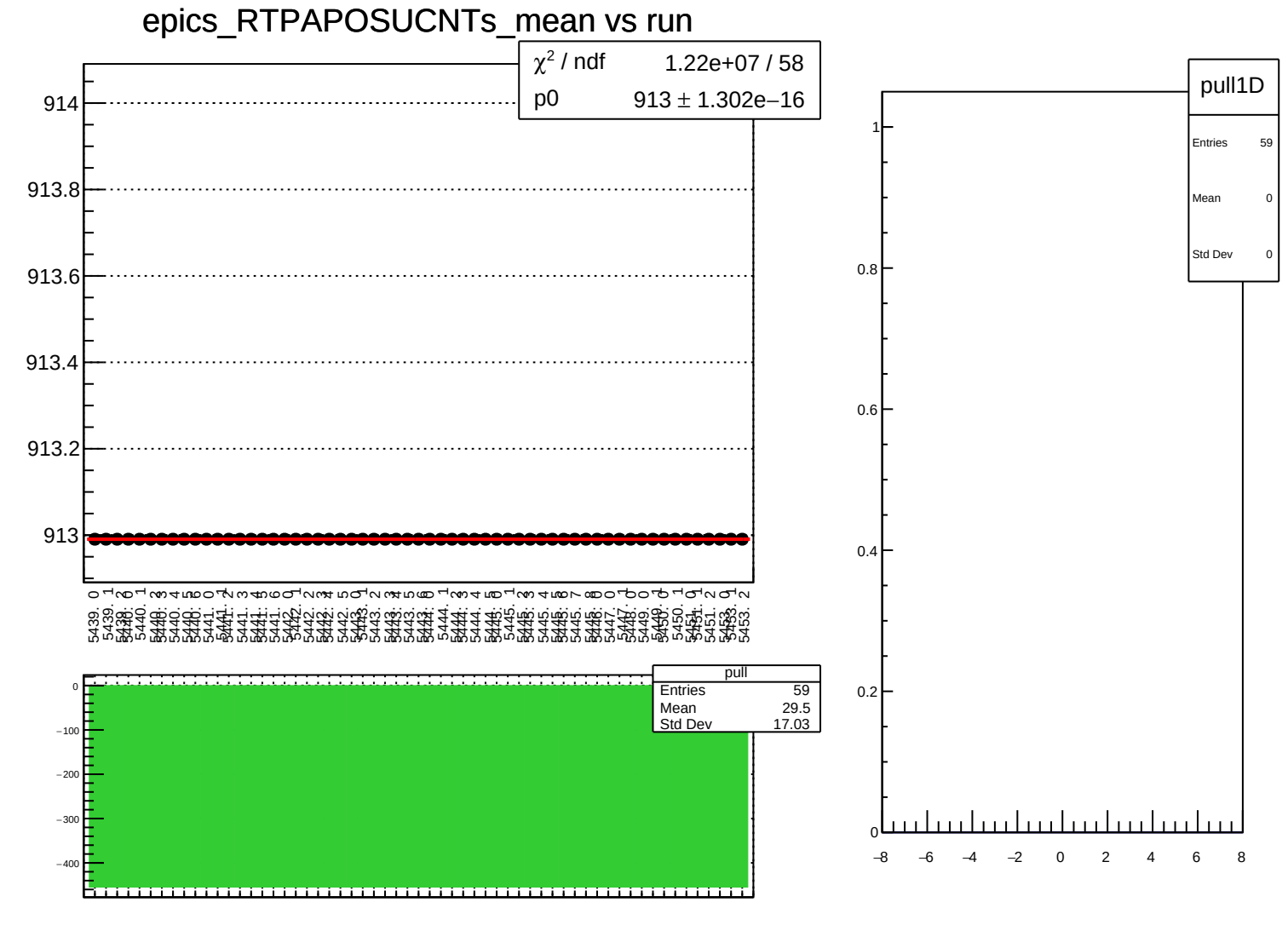

epics_HWienAngles_mean vs run
χ² / ndf 7.447e+04 / 58
p0 −26.4 ± 1.302e−16
−25.4
−25.6
−25.8
−26
−26.2
−26.4
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

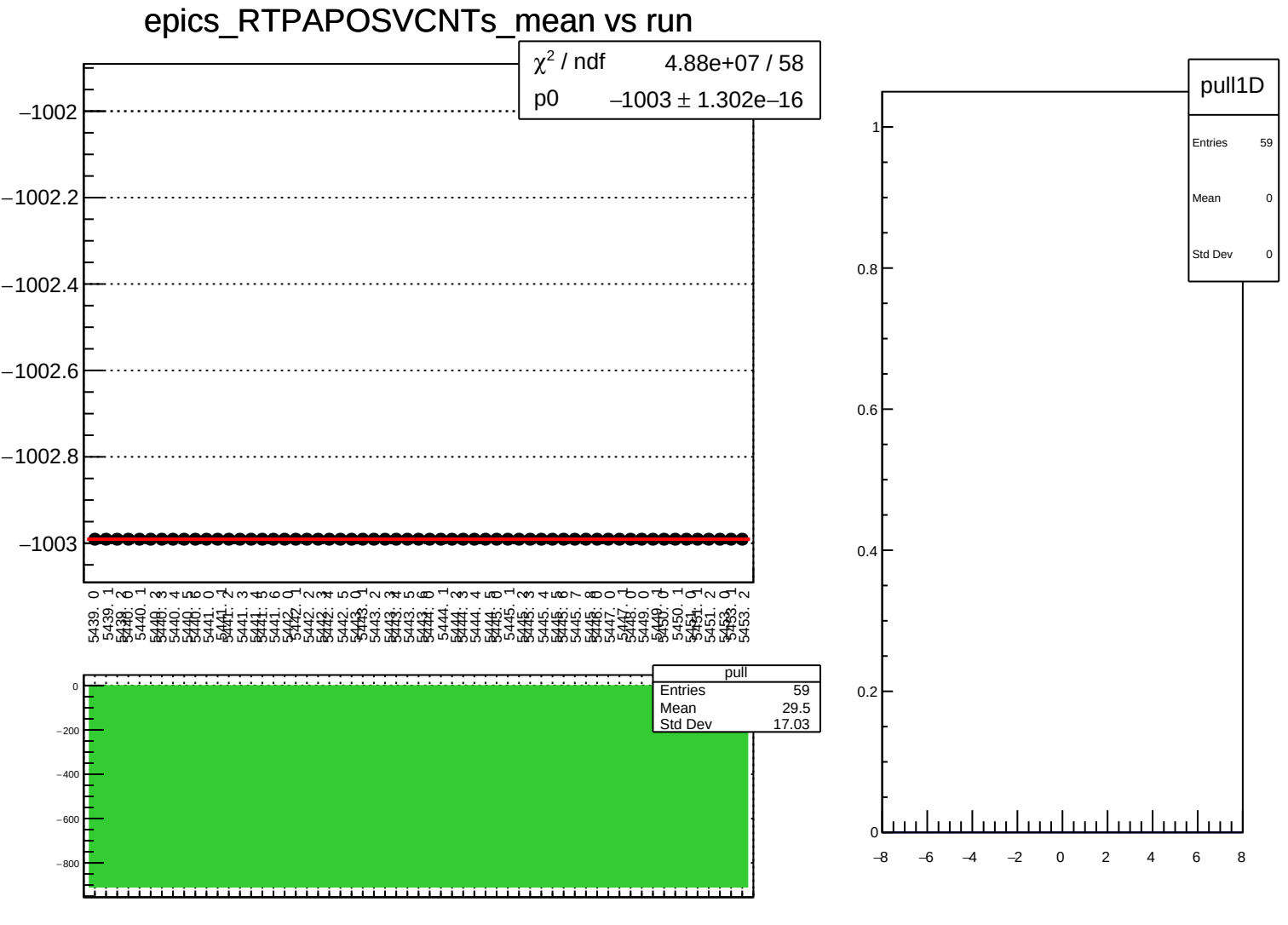

epics_psub_pl_poss_mean vs run
χ² / ndf 3.05e+06 / 58
p0 1500 ± 1.302e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 59
Mean 29.5
Std Dev 17.03
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 1.906e+05 / 58
p0 91.2 ± 1.302e−16
92.2
92
91.8
91.6
91.4
91.2
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−10
−20
−30
−40
−50
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.862e+04 / 58
p0 16.01± 1.302e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 59
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 631.1 / 49
p0 17.01± 1.414e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 50
Mean 25
Std Dev 14.43
0
−0.5
−1
−1.5
−2
−2.5
−3
−3.5
pull1D
Entries 50
Mean −3.553
Std Dev 0
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.22e+07 / 58
p0 913 ± 1.302e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−100
−200
−300
−400
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 4.88e+07 / 58
p0 −1003 ± 1.302e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−200
−400
−600
−800
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8