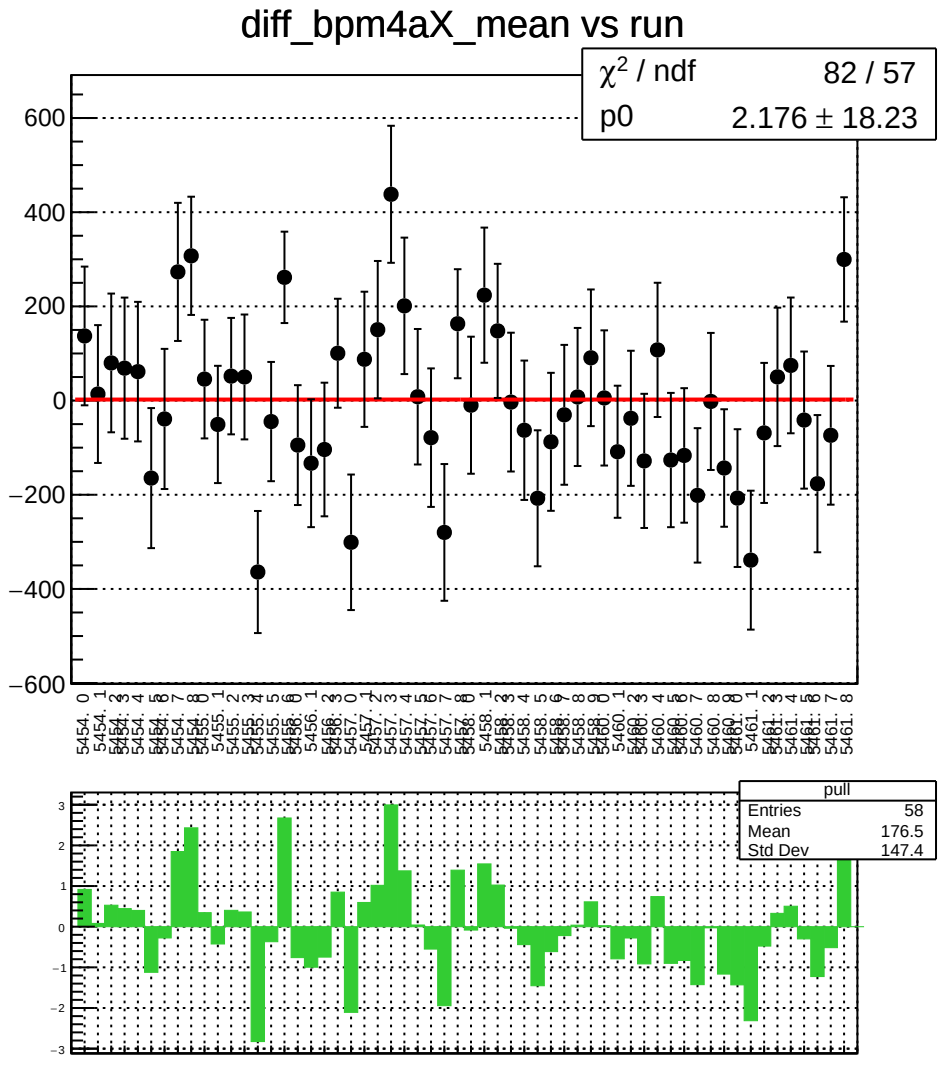
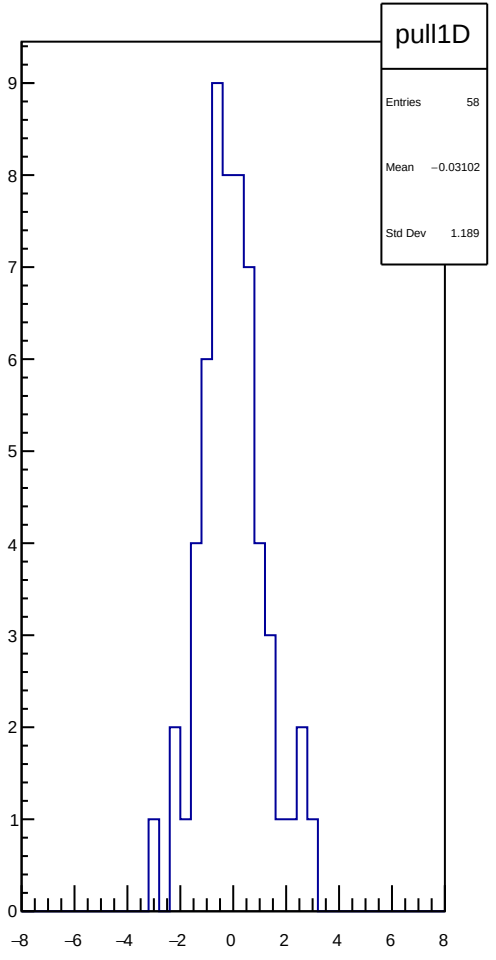
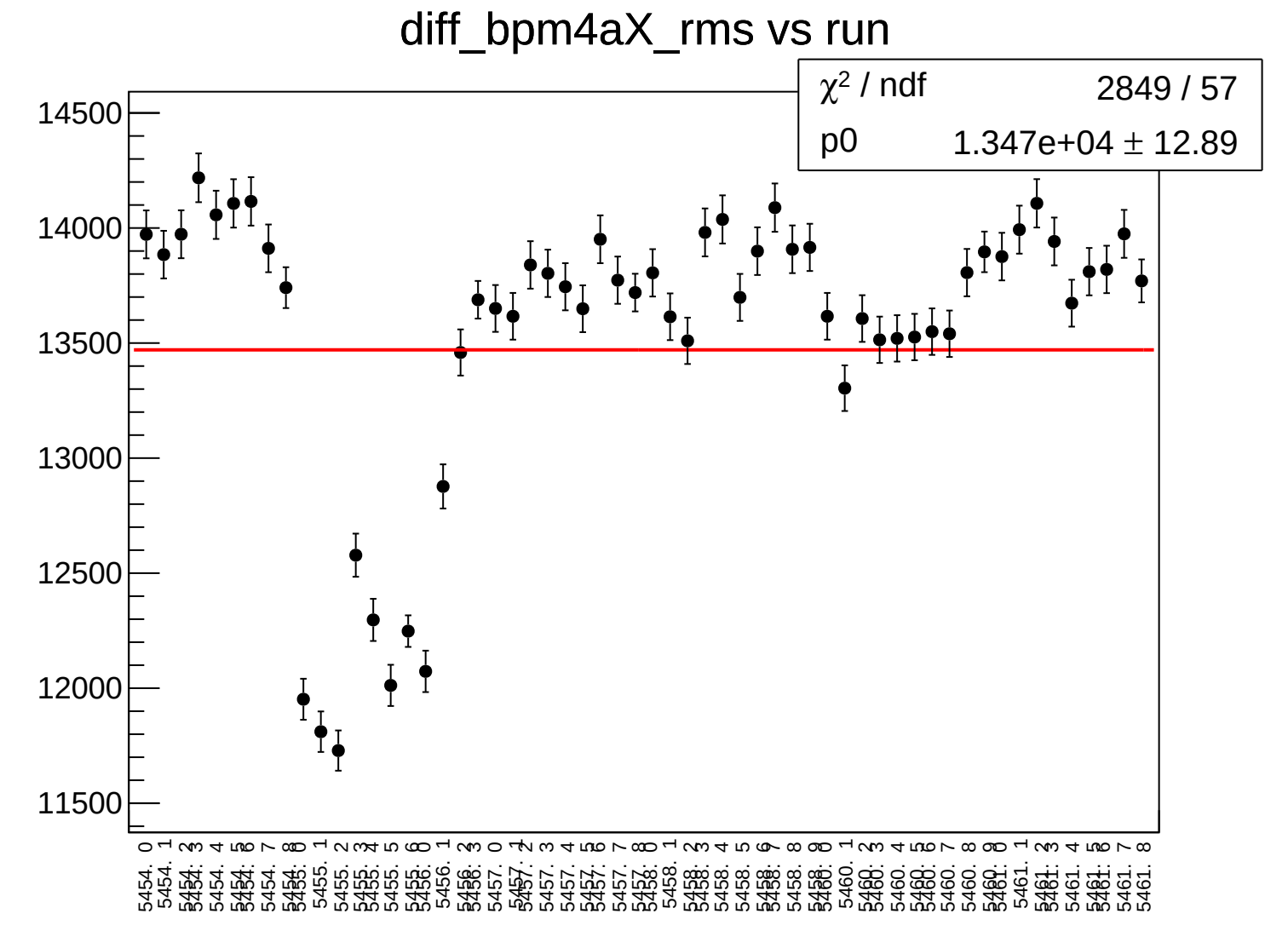
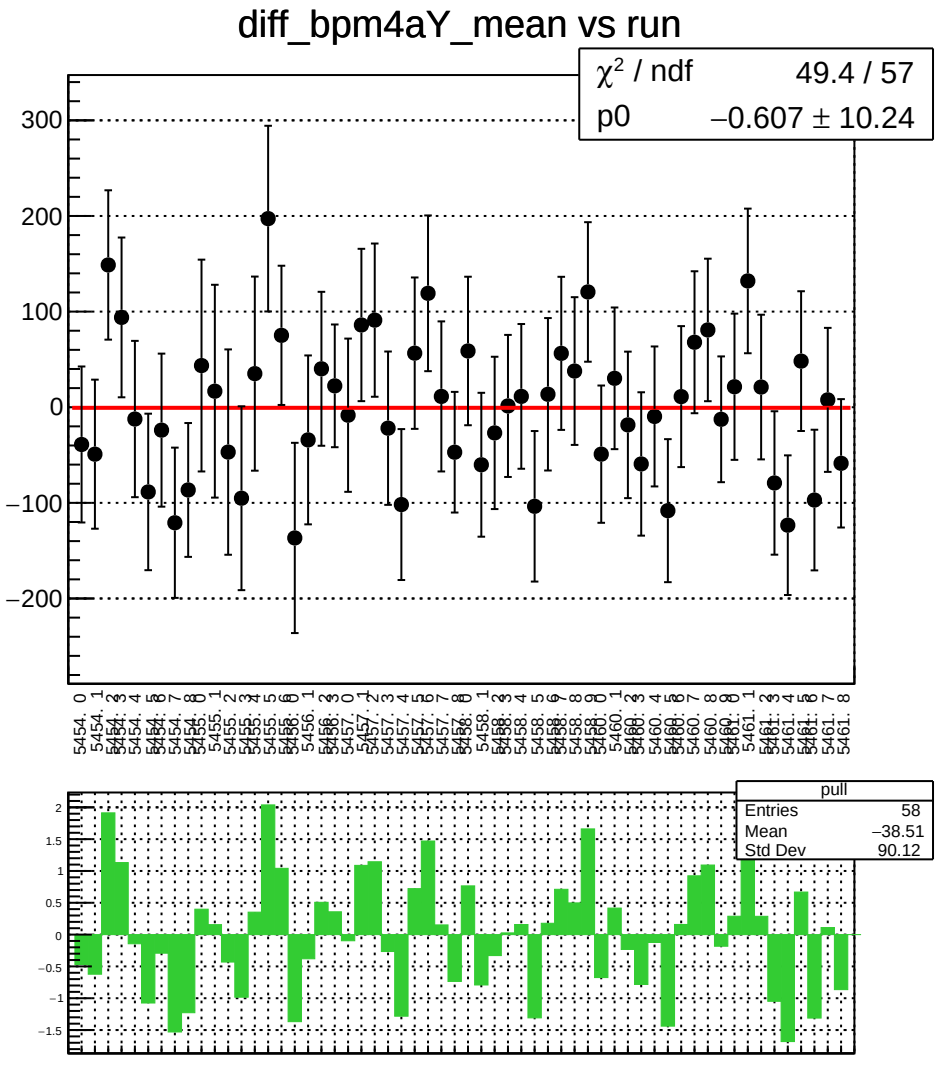
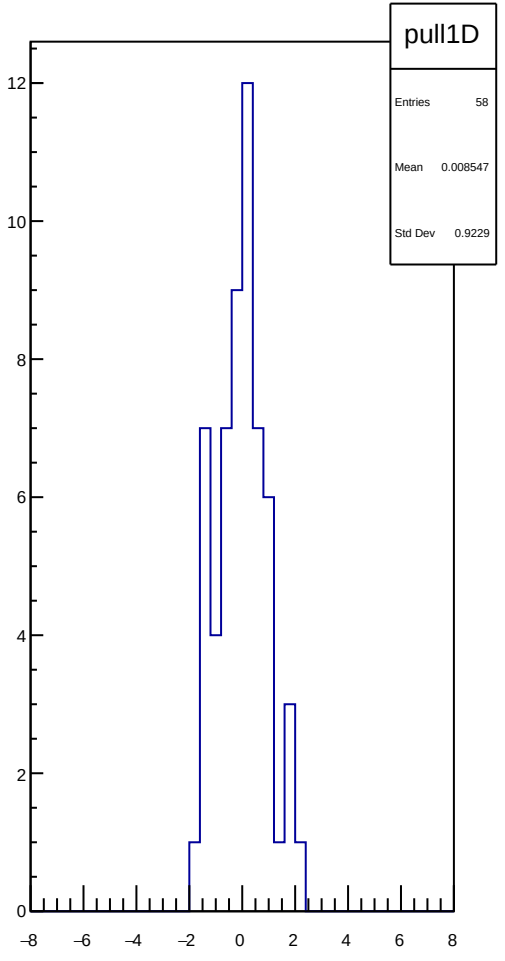
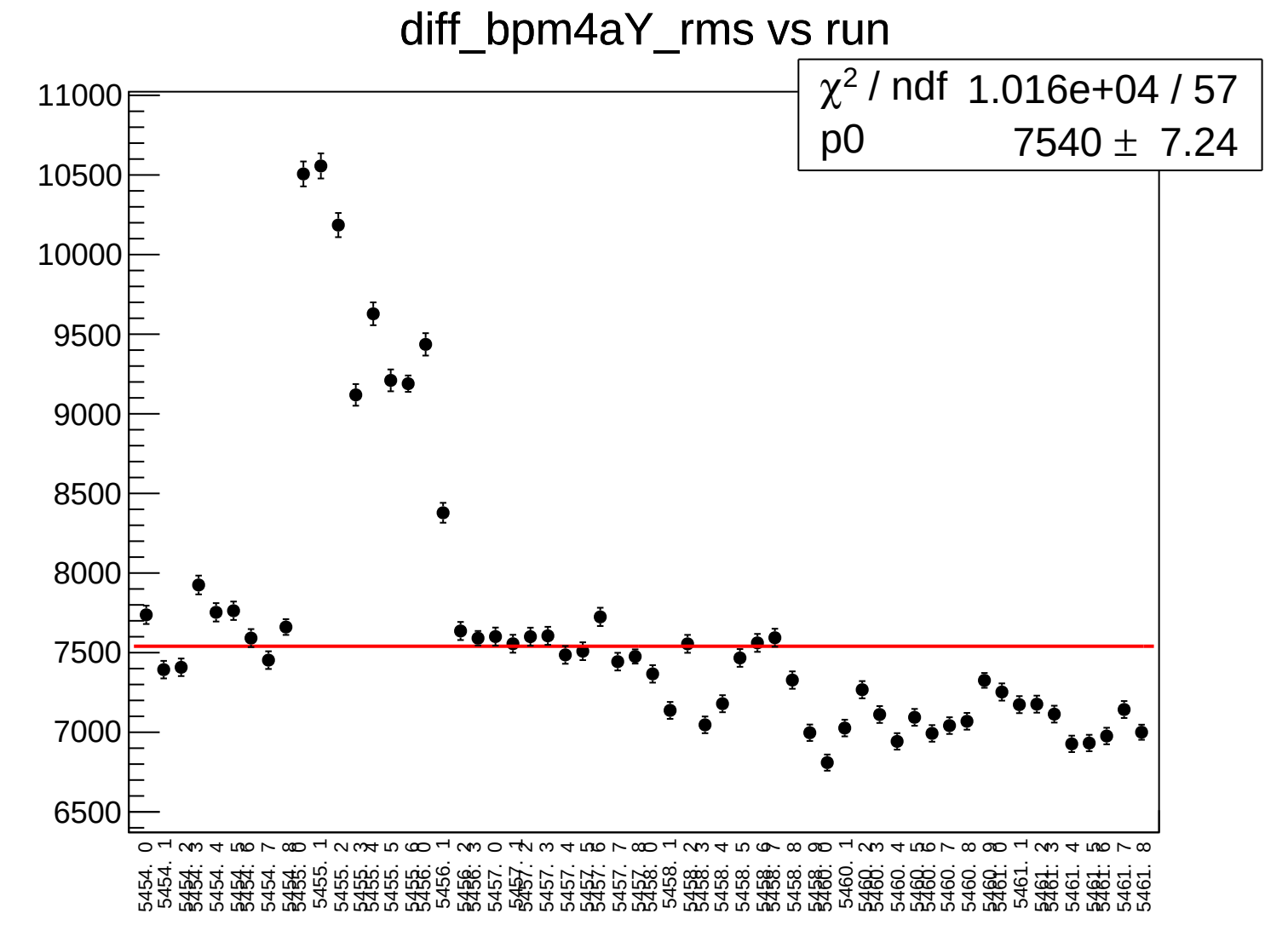

diff_bpm4aX_mean vs run
χ² / ndf 82 / 57
p0 2.176 ± 18.23
pull
Entries 58
Mean 176.5
Std Dev 147.4

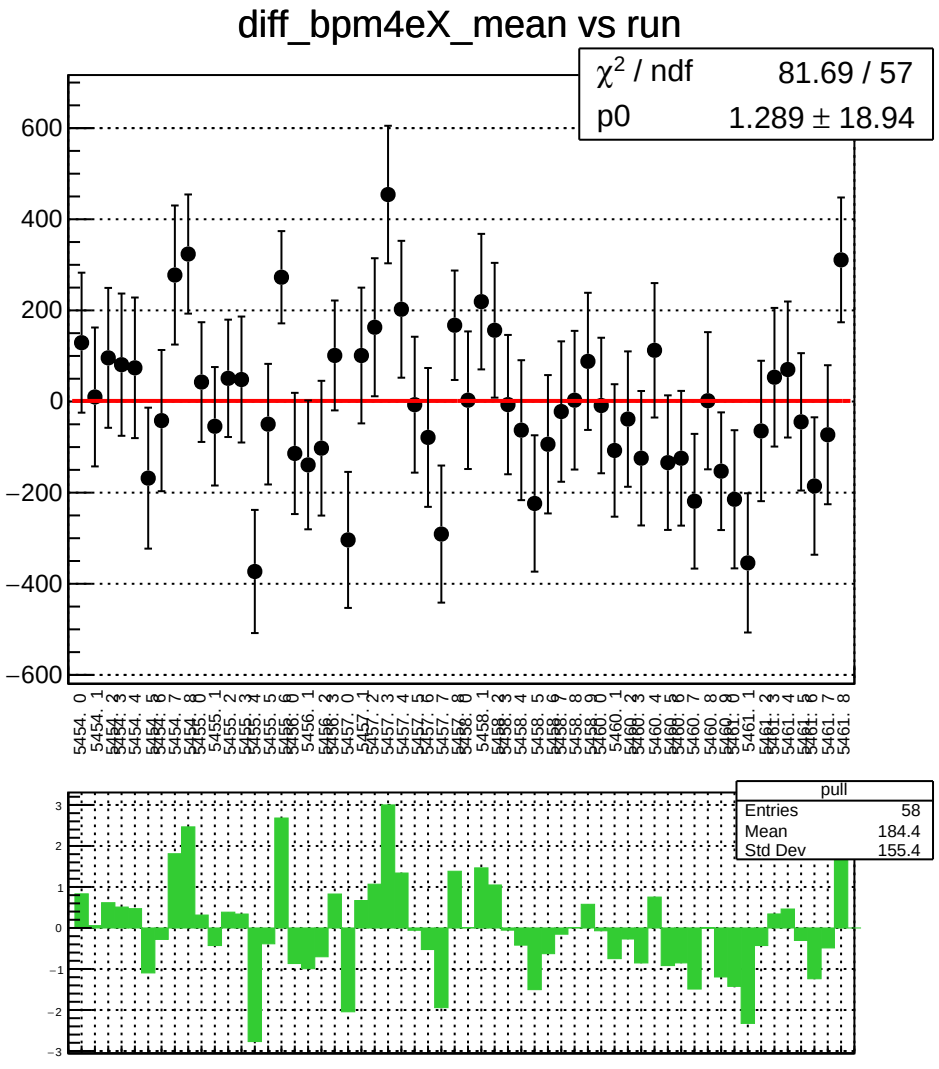

pull1D
Entries 58
Mean −0.03102
Std Dev 1.189

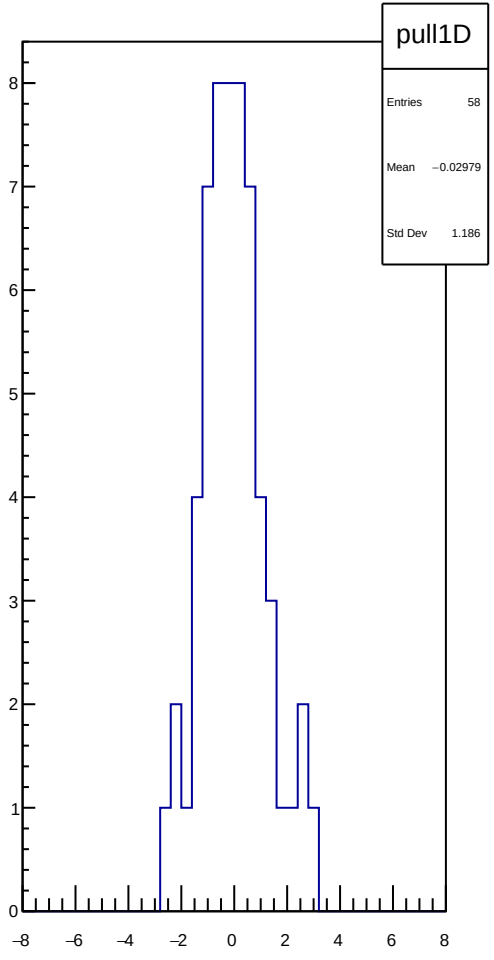

diff_bpm4aX_rms vs run
χ² / ndf 2849 / 57
p0 1.347e+04 ± 12.89
14500
14000
13500
13000
12500
12000
11500

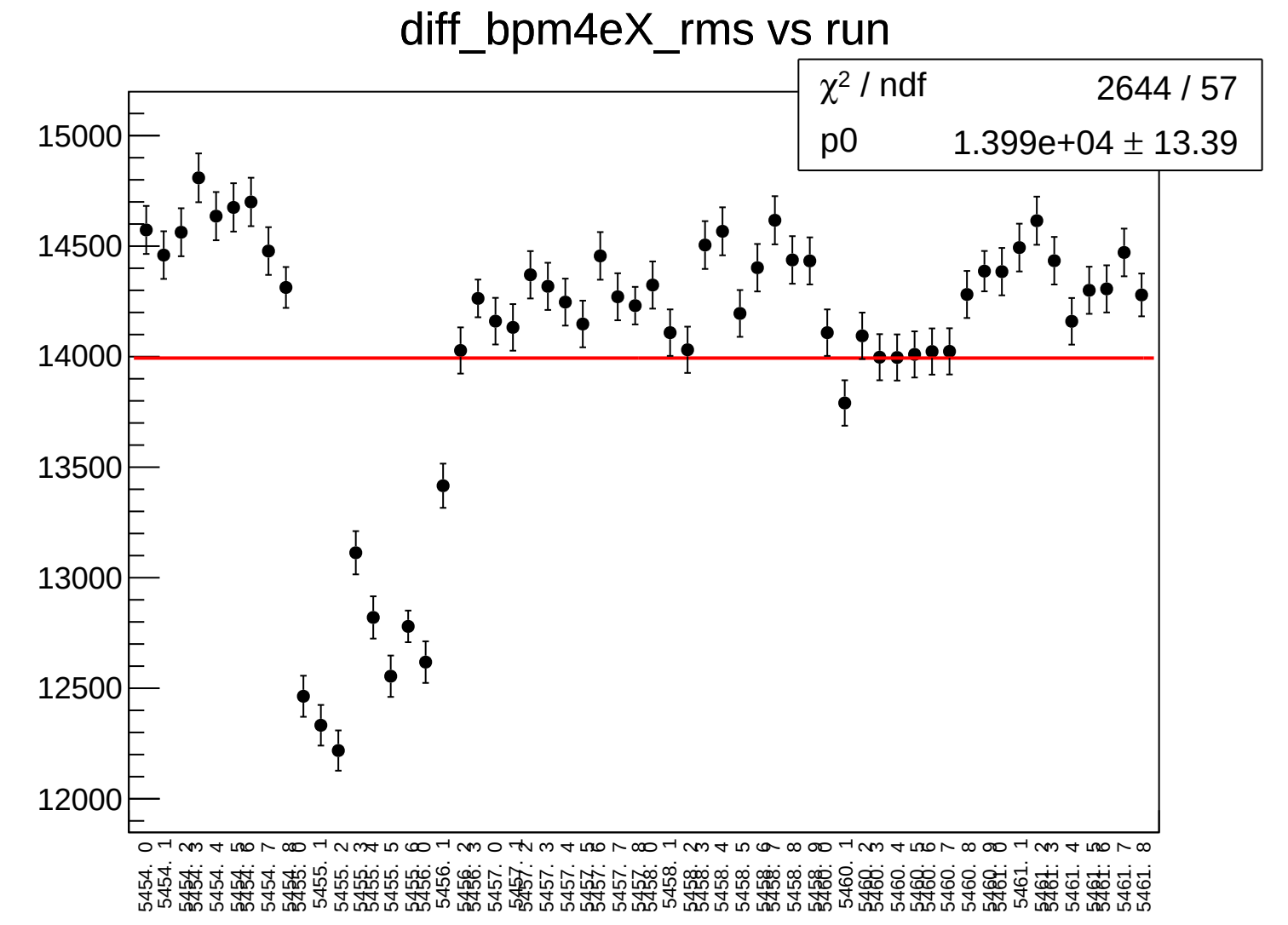

diff_bpm4aY_mean vs run
χ² / ndf 49.4 / 57
p0 −0.607 ± 10.24
300
200
100
0
−100
−200
pull
Entries 58
Mean −38.51
Std Dev 90.12
2
1.5
1
0.5
0
−0.5
−1
−1.5

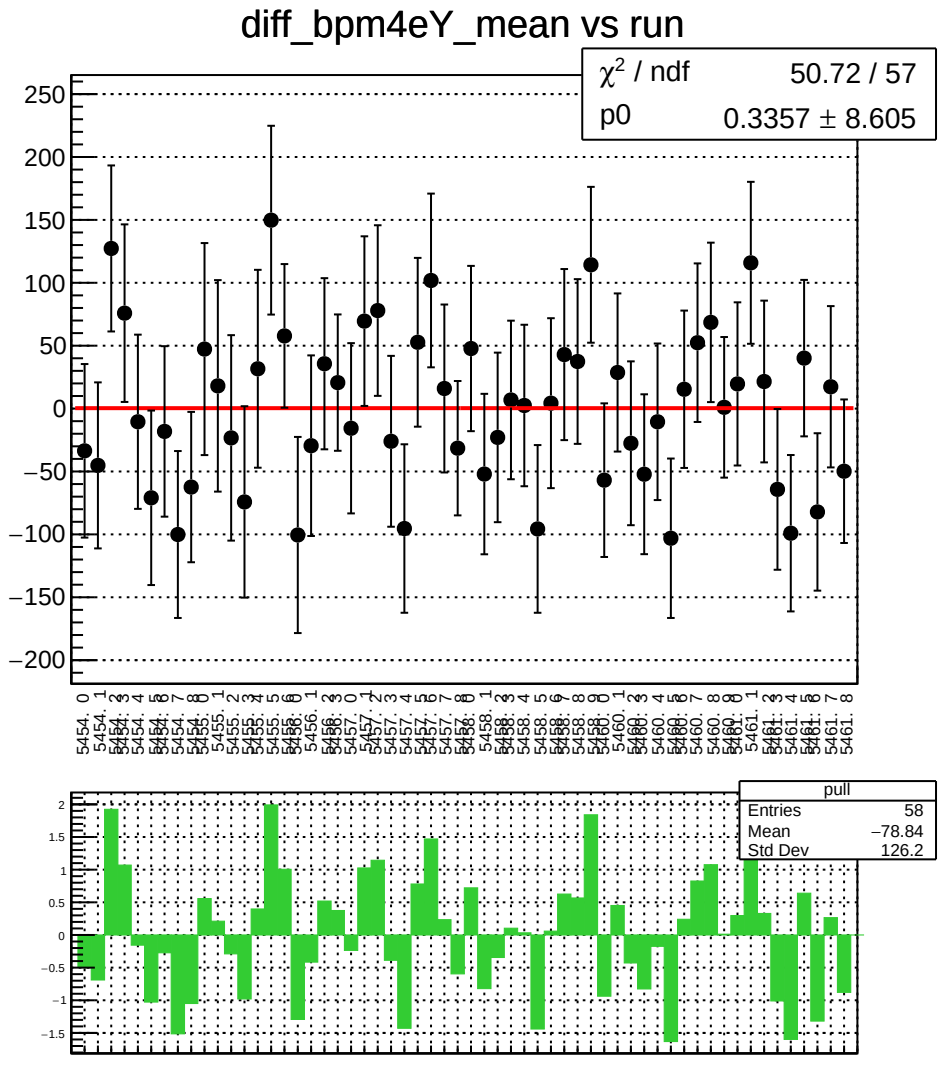

pull1D
Entries 58
Mean 0.008547
Std Dev 0.9229
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

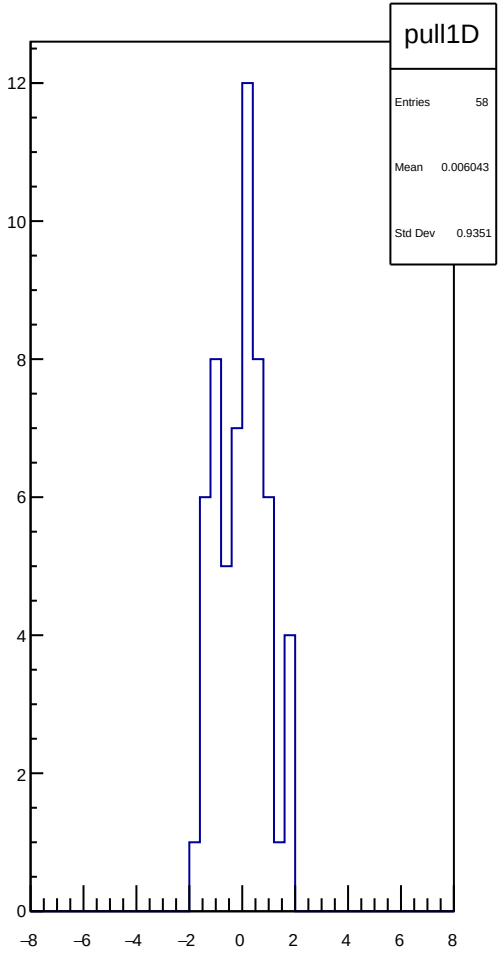

diff_bpm4aY_rms vs run
χ² / ndf 1.016e+04 / 57
p0 7540 ± 7.24
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

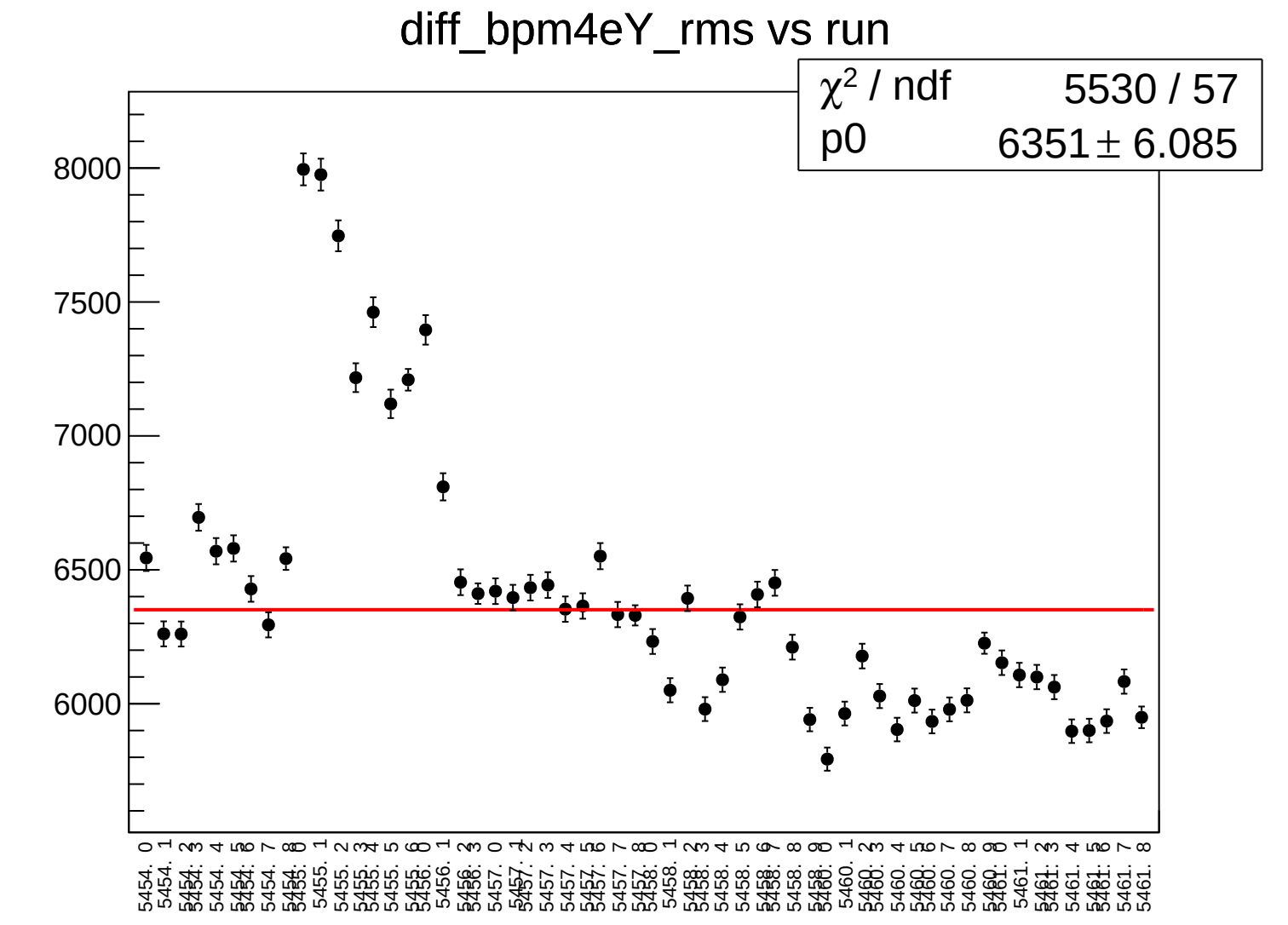

diff_bpm4eX_mean vs run
χ^2 / ndf 81.69 / 57
p0 1.289 ± 18.94
pull
Entries 58
Mean 184.4
Std Dev 155.4

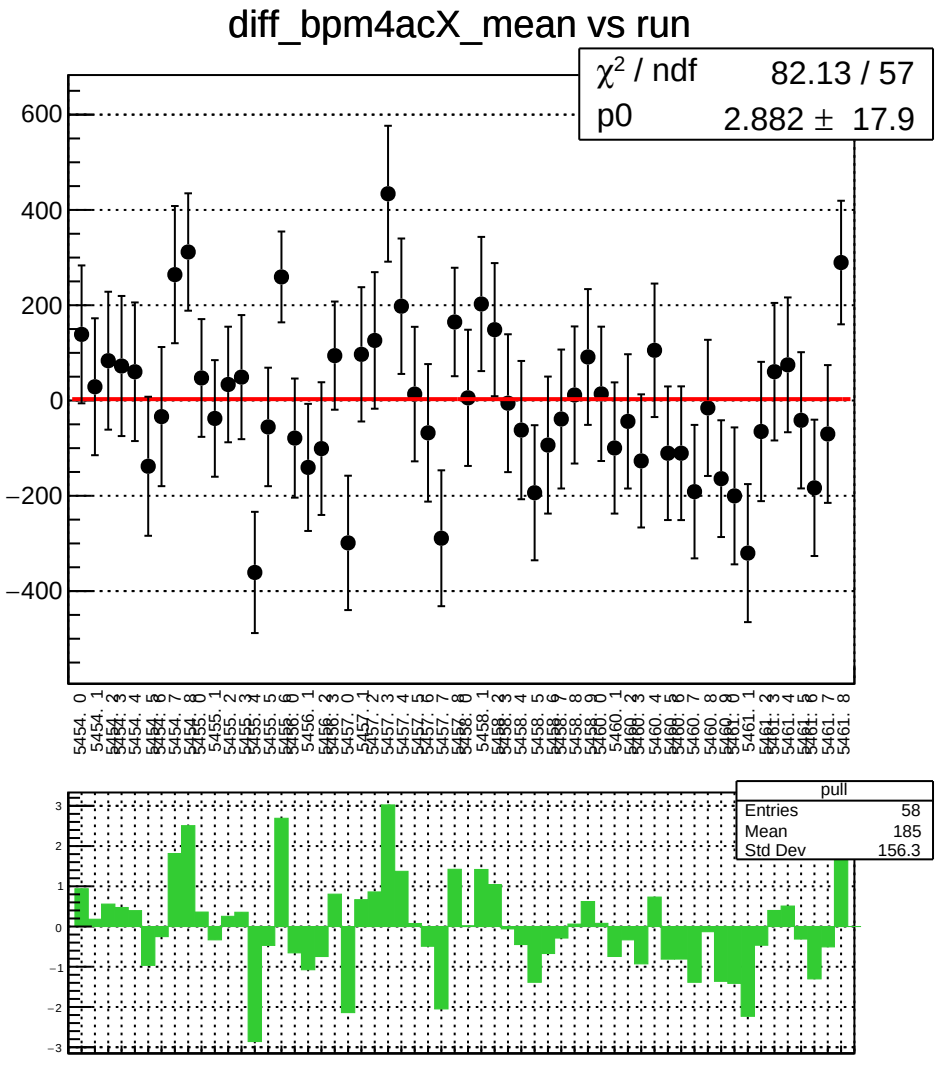

pull1D
Entries 58
Mean −0.02979
Std Dev 1.186

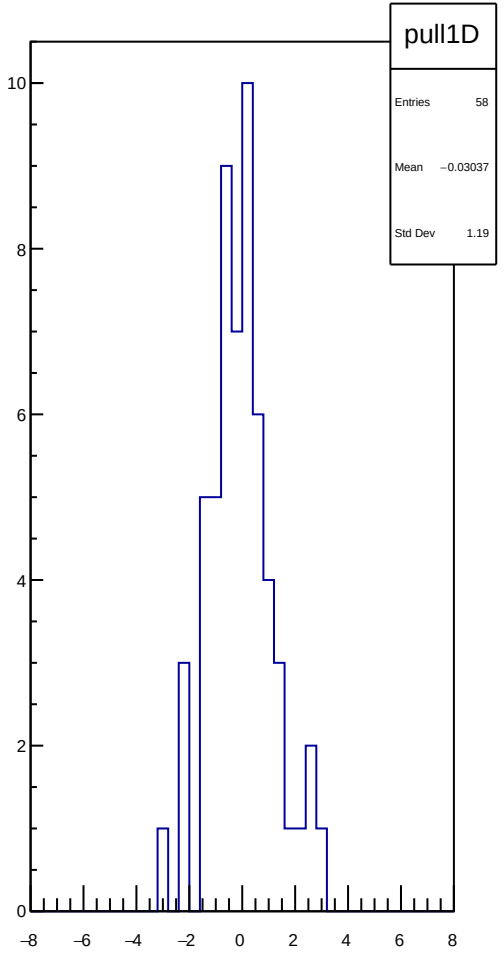

diff_bpm4eX_rms vs run
χ² / ndf 2644 / 57
p0 1.399e+04 ± 13.39
15000
14500
14000
13500
13000
12500
12000

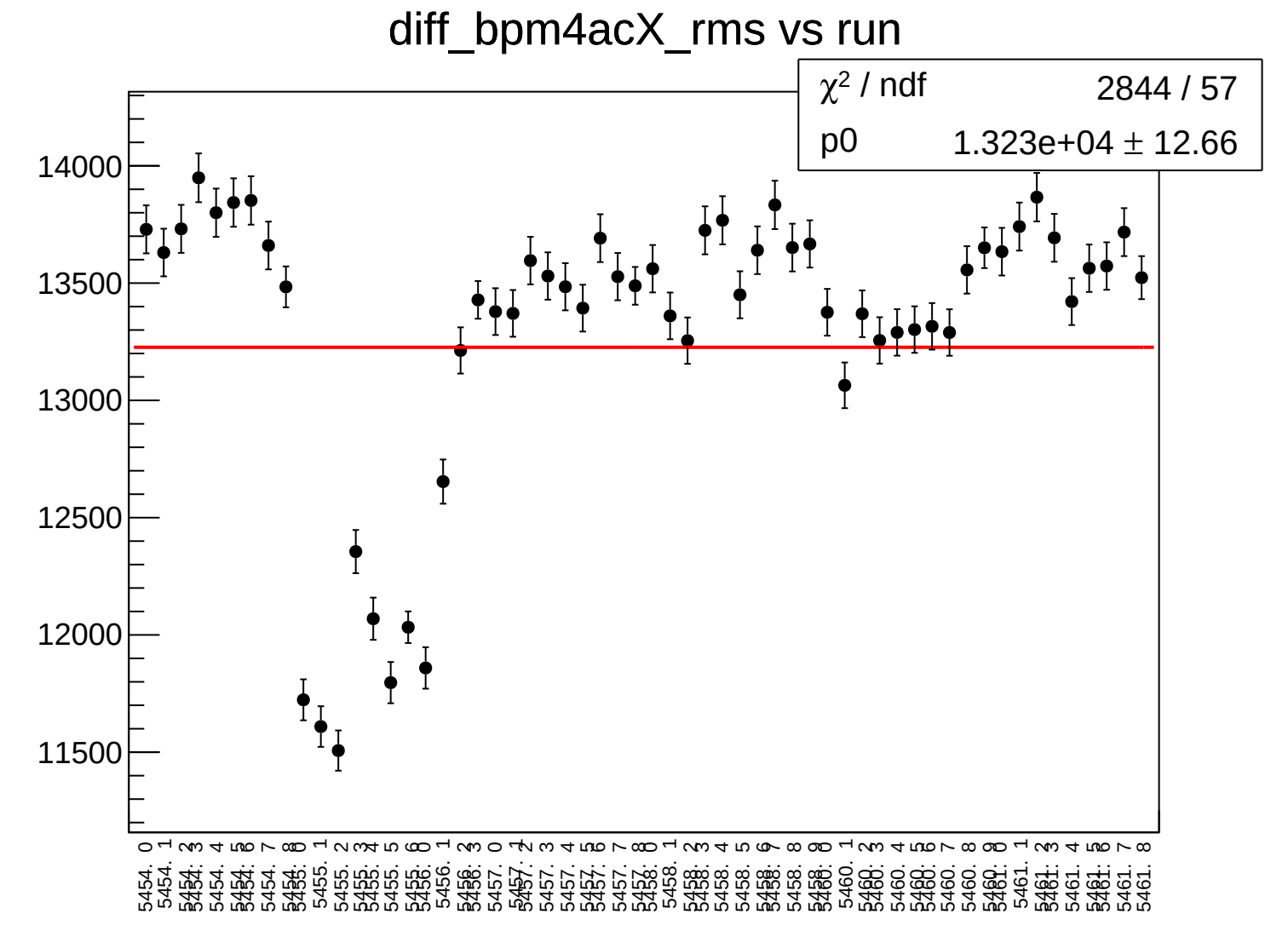

diff_bpm4eY_mean vs run
χ² / ndf 50.72 / 57
p0 0.3357 ± 8.605
pull
Entries 58
Mean −78.84
Std Dev 126.2

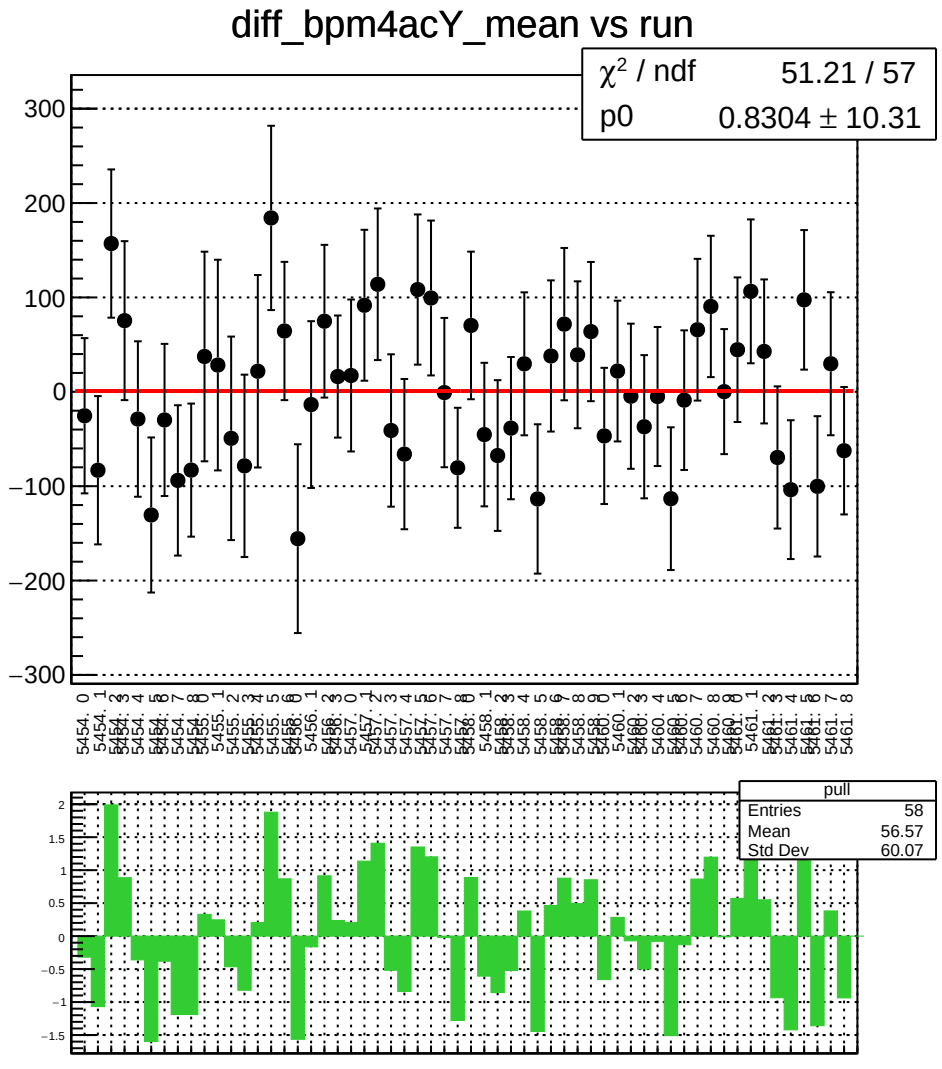

pull1D
Entries 58
Mean 0.006043
Std Dev 0.9351

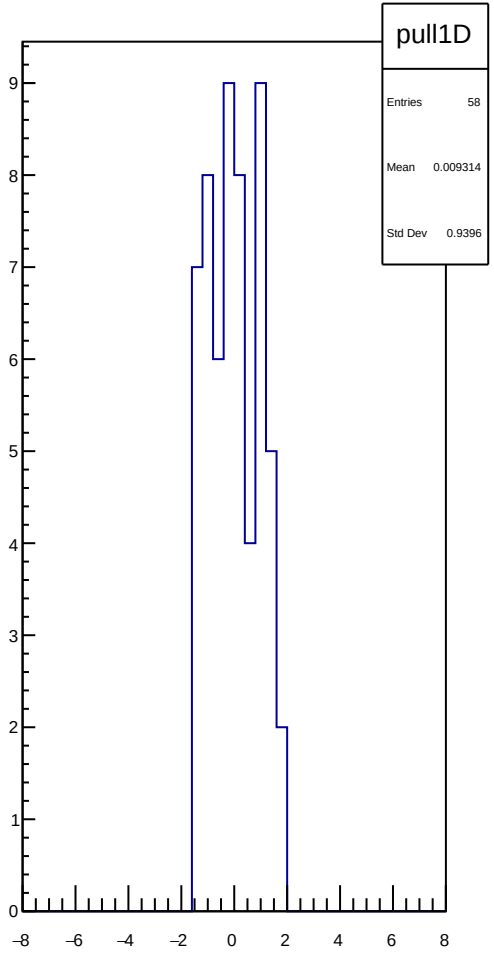

diff_bpm4eY_rms vs run
χ² / ndf 5530 / 57
p0 6351 ± 6.085
8000
7500
7000
6500
6000

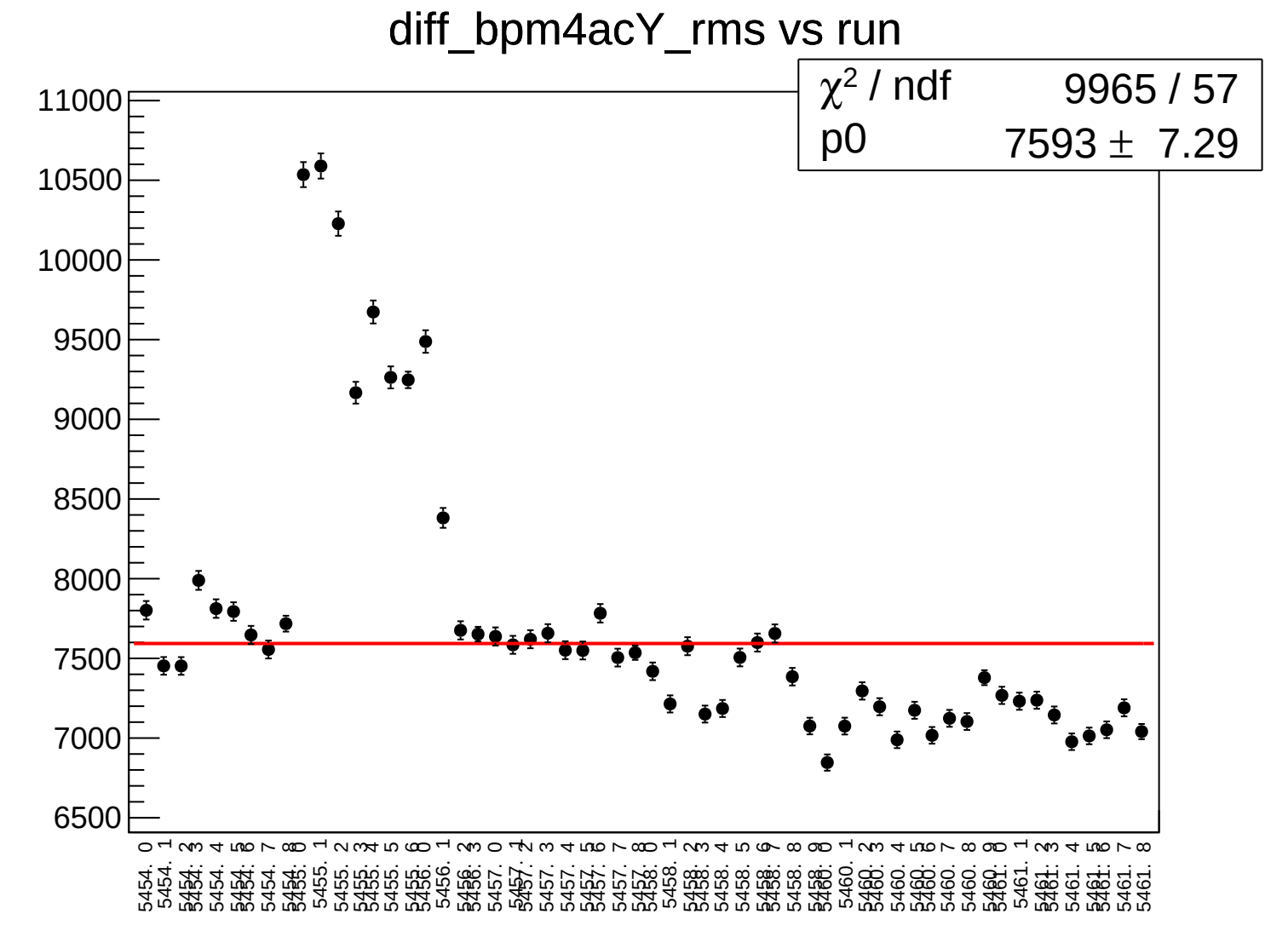

diff_bpm4acX_mean vs run
χ^2 / ndf 82.13 / 57
p0 2.882 ± 17.9
pull
Entries 58
Mean 185
Std Dev 156.3

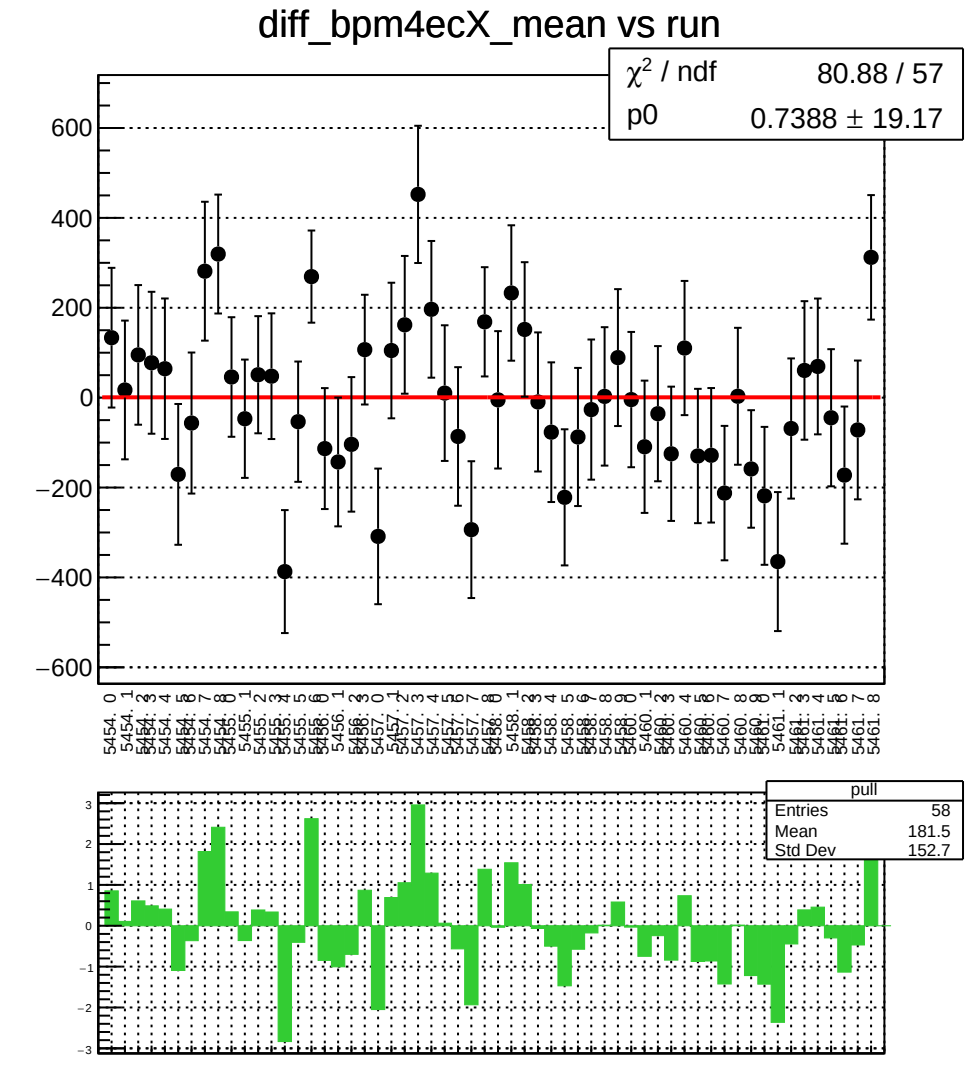

pull1D
Entries 58
Mean −0.03037
Std Dev 1.19

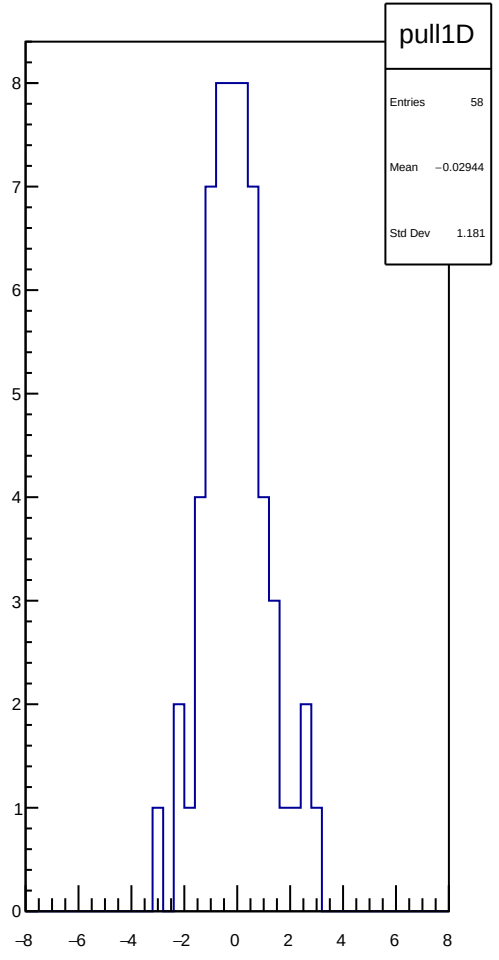

diff_bpm4acX_rms vs run
χ² / ndf 2844 / 57
p0 1.323e+04 ± 12.66
14000
13500
13000
12500
12000
11500

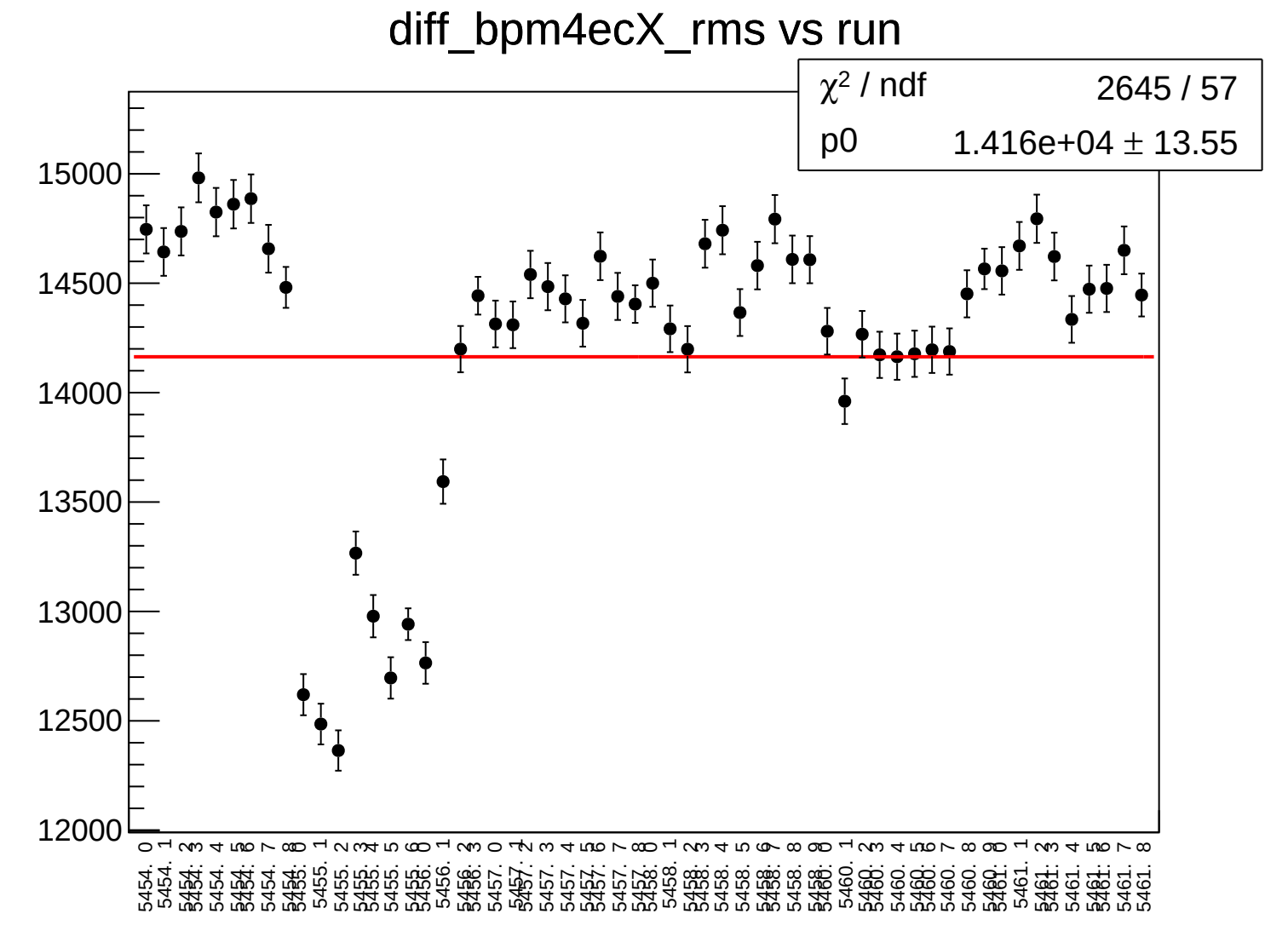

diff_bpm4acY_mean vs run
χ² / ndf 51.21 / 57
p0 0.8304 ± 10.31
pull
Entries 58
Mean 56.57
Std Dev 60.07

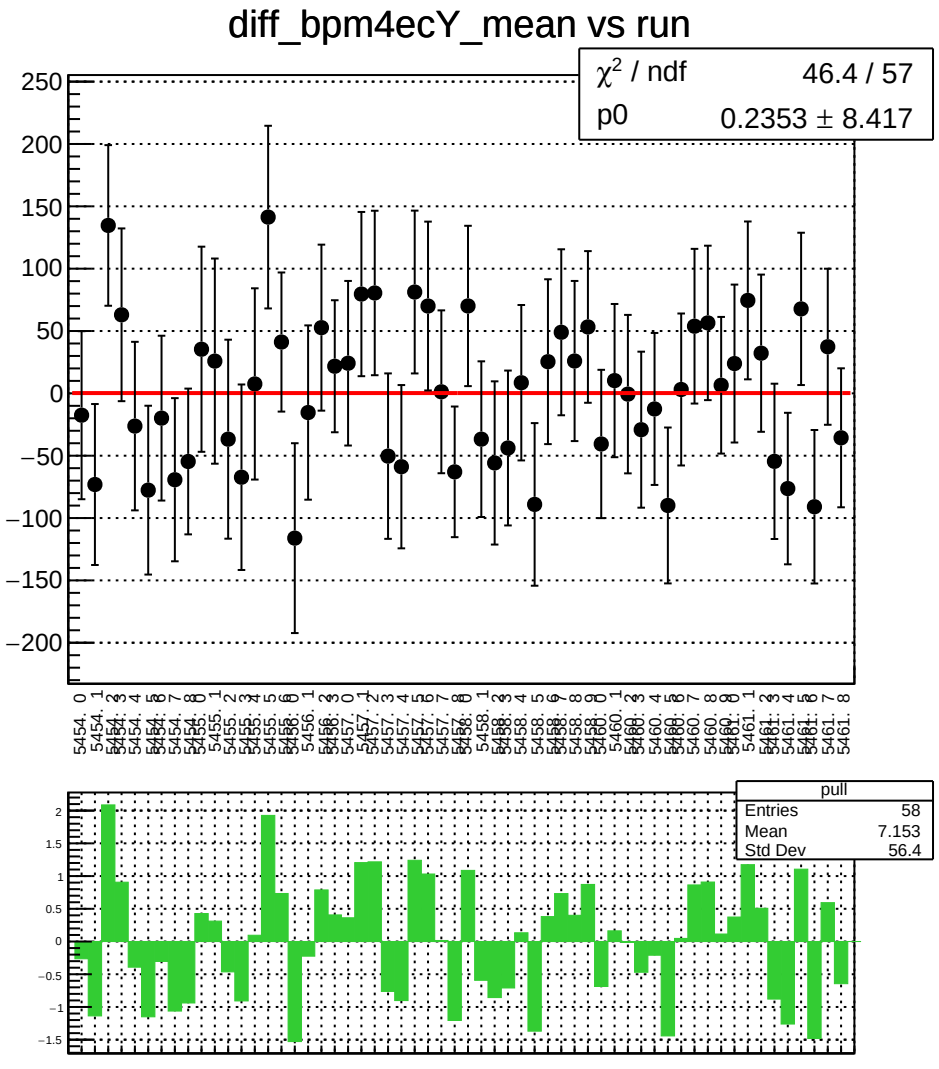

pull1D
Entries 58
Mean 0.009314
Std Dev 0.9396

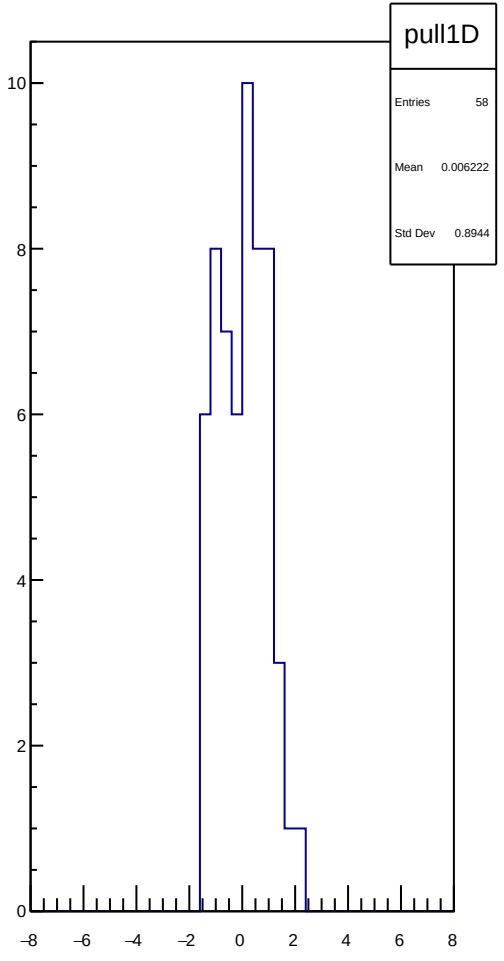

diff_bpm4acY_rms vs run
χ² / ndf 9965 / 57
p0 7593 ± 7.29
11000
10500
10000
9500
9000
8500
8000
7500
7000
6500

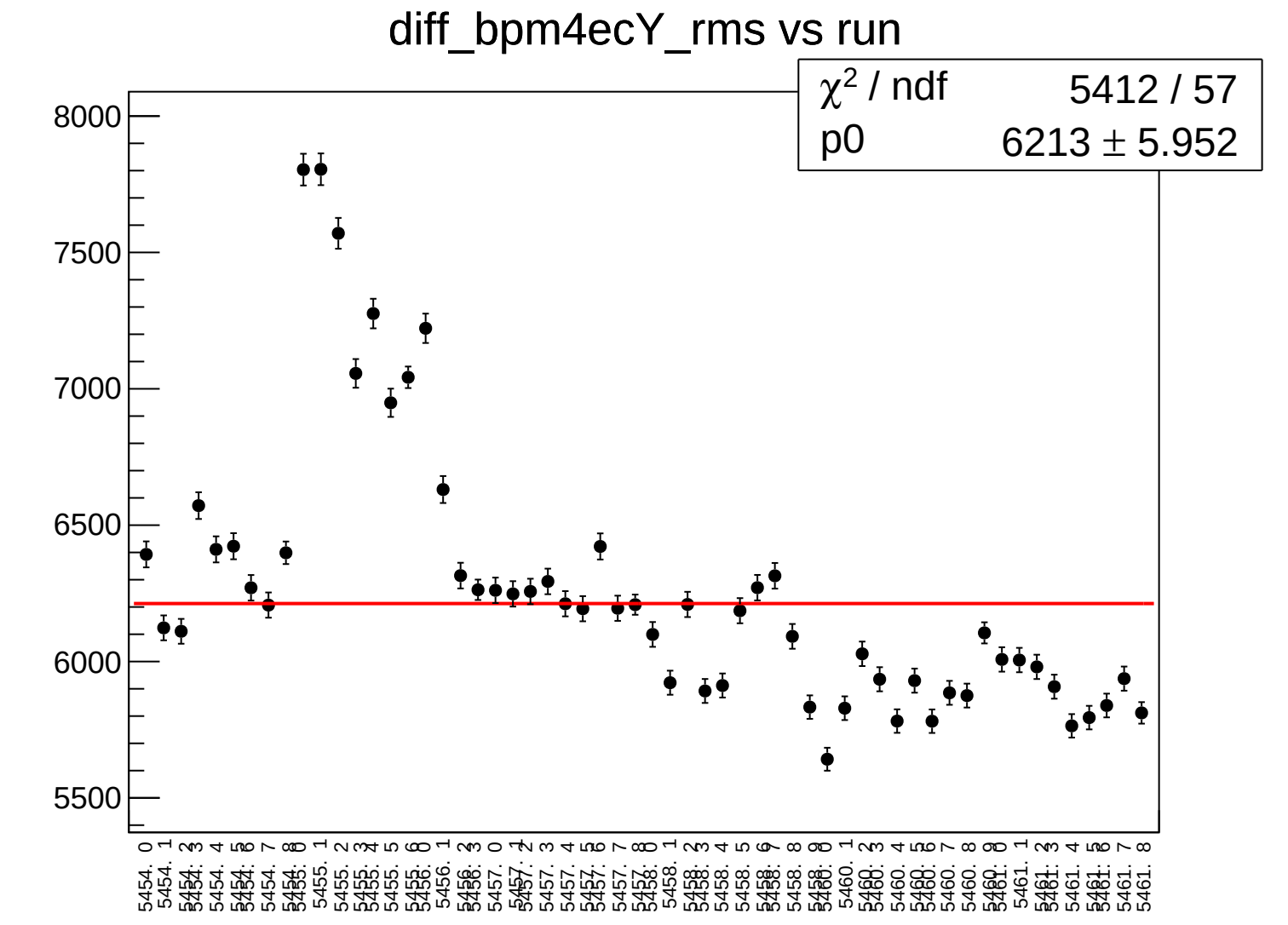

diff_bpm4ecX_mean vs run
χ² / ndf 80.88 / 57
p0 0.7388 ± 19.17
pull
Entries 58
Mean 181.5
Std Dev 152.7

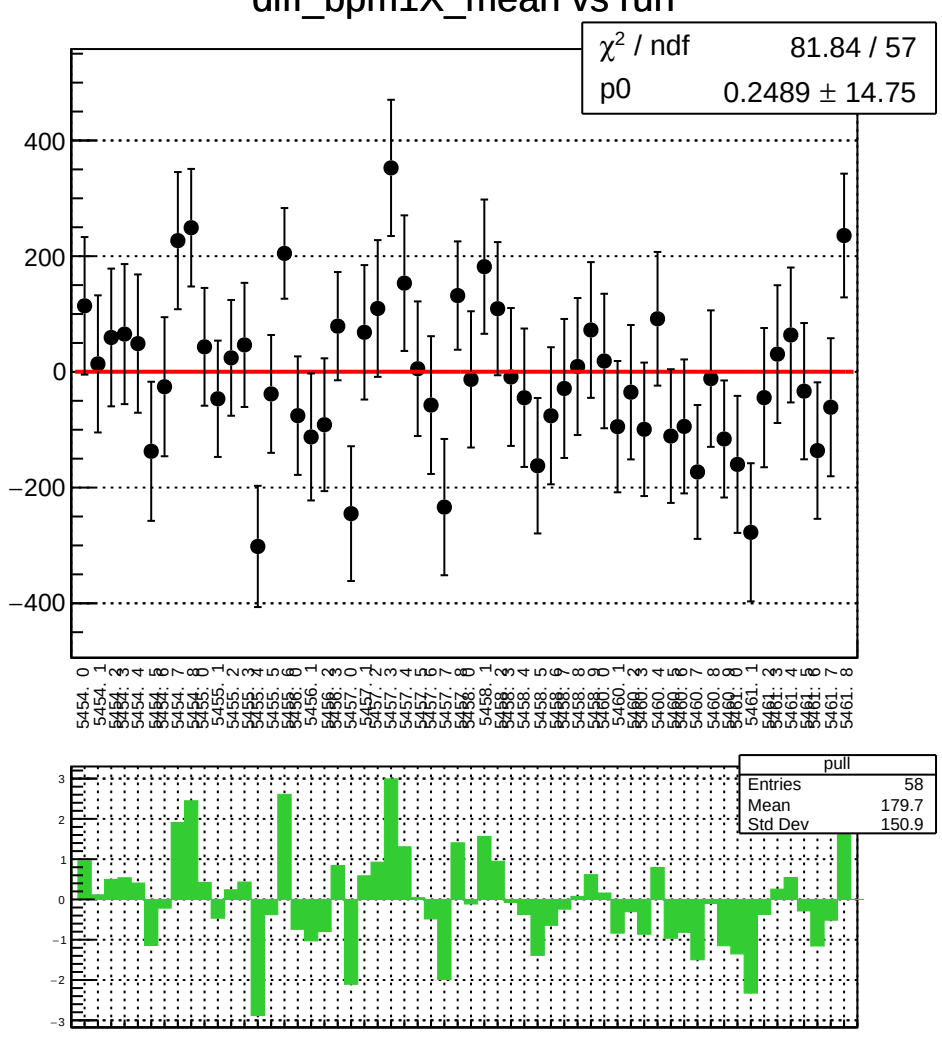

pull1D
Entries 58
Mean −0.02944
Std Dev 1.181

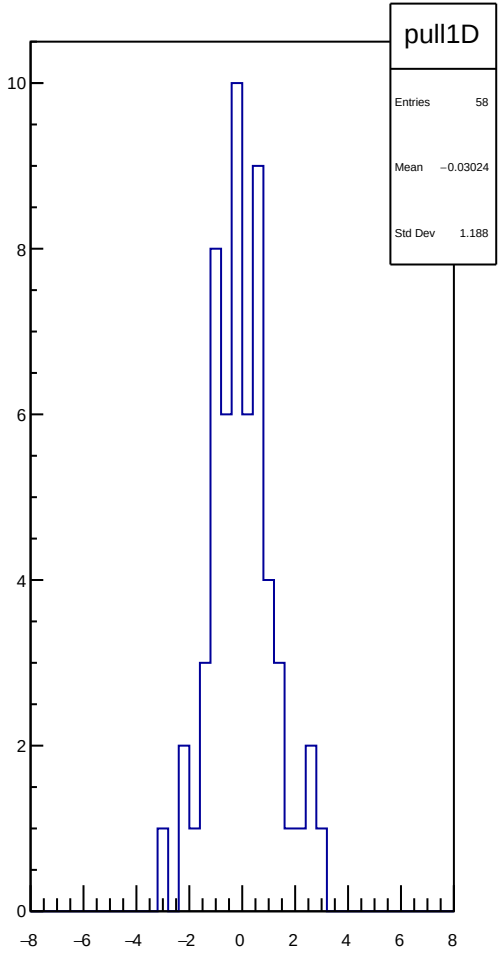

diff_bpm4ecX_rms vs run
χ² / ndf 2645 / 57
p0 1.416e+04 ± 13.55
15000
14500
14000
13500
13000
12500
12000

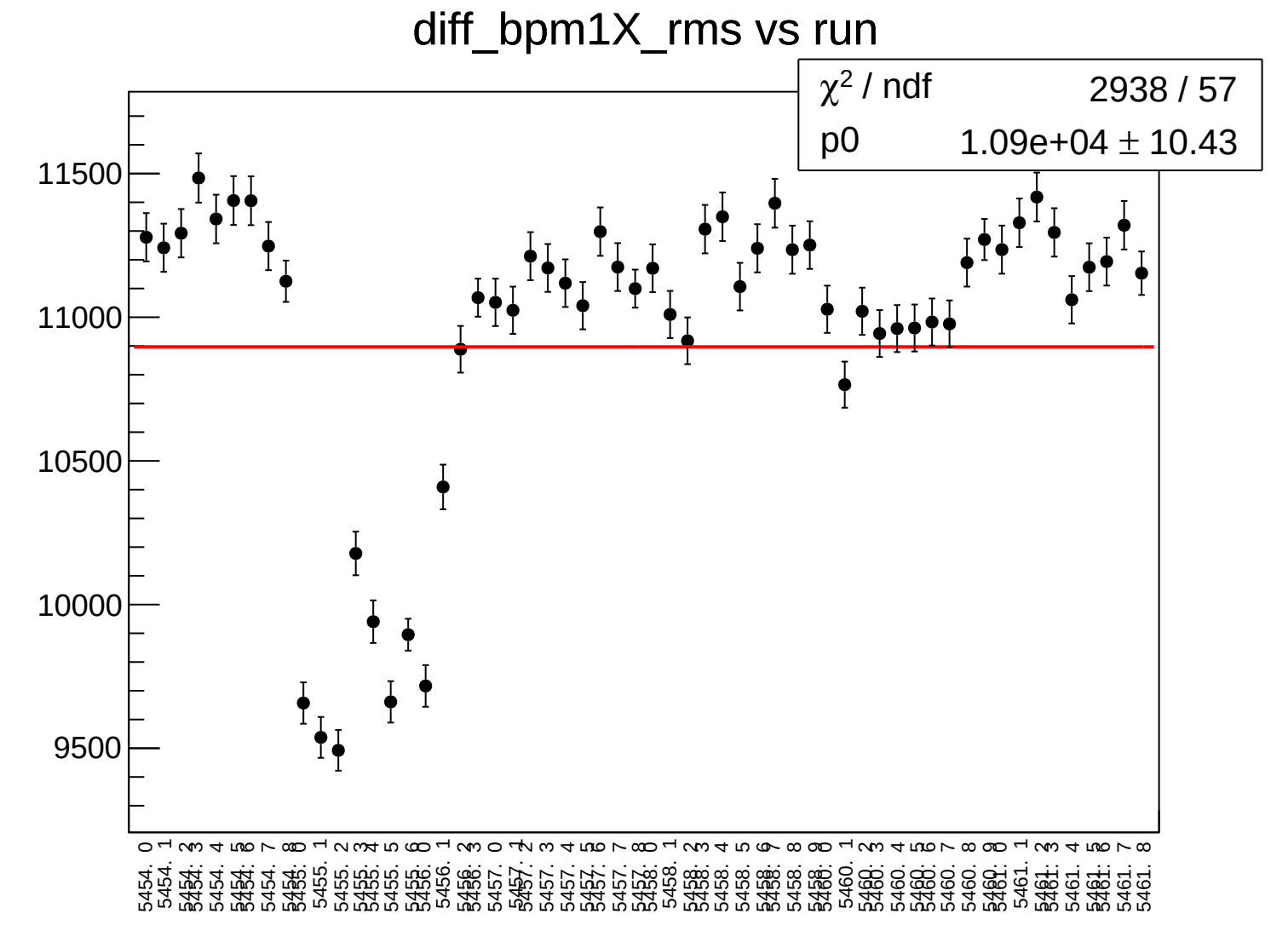

diff_bpm4ecY_mean vs run
χ² / ndf 46.4 / 57
p0 0.2353 ± 8.417
pull
Entries 58
Mean 7.153
Std Dev 56.4

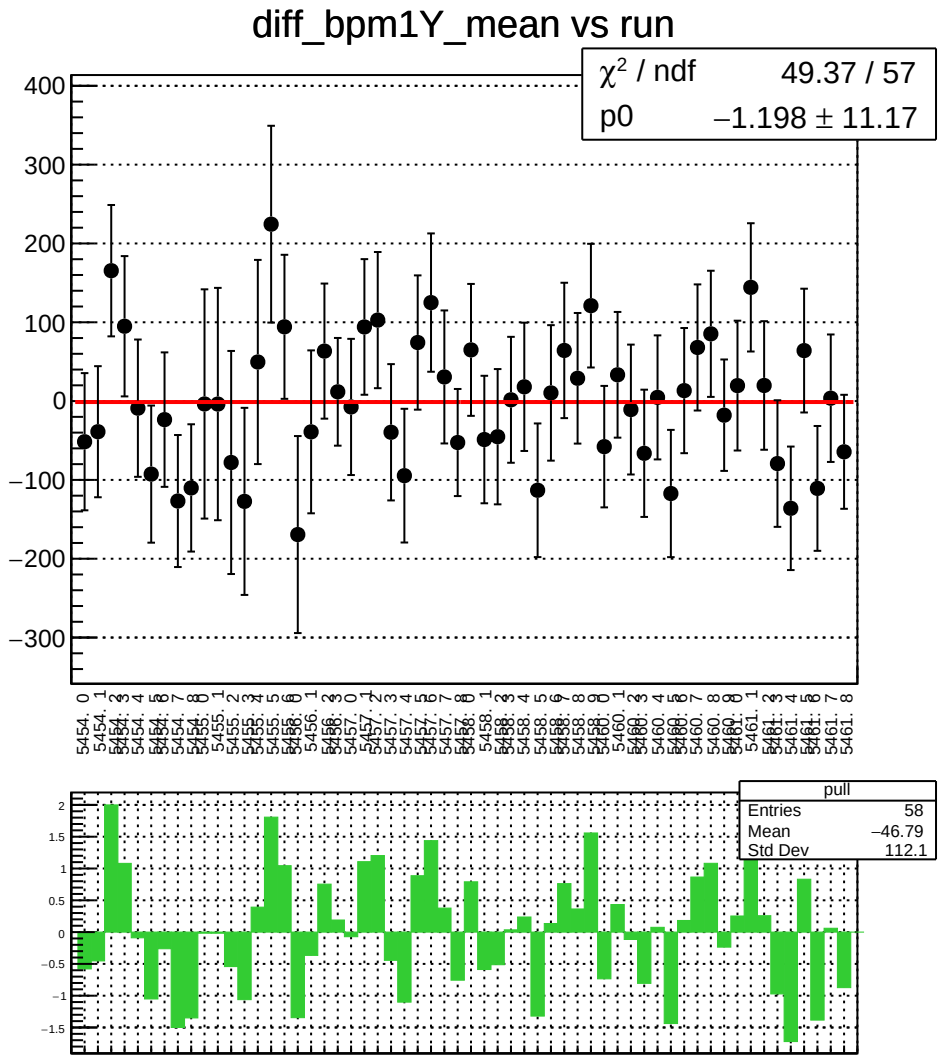

pull1D
Entries 58
Mean 0.006222
Std Dev 0.8944

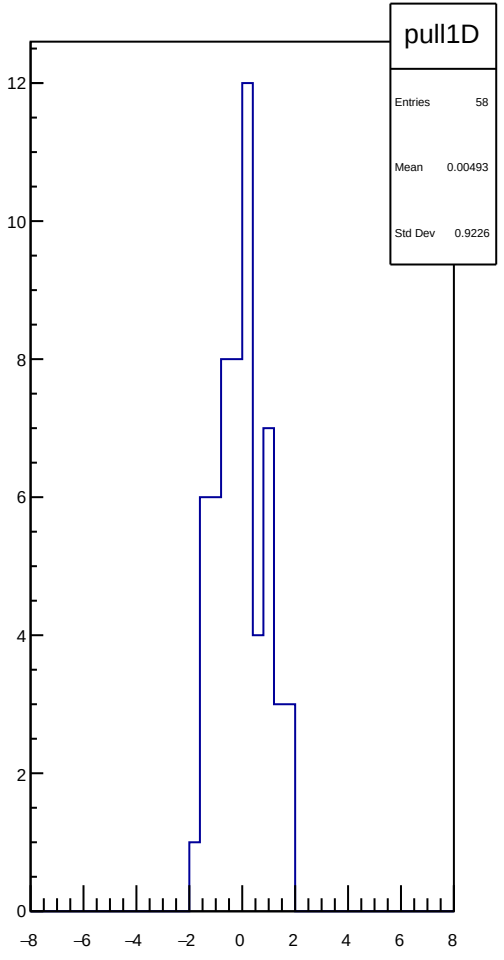

diff_bpm4ecY_rms vs run
χ² / ndf 5412 / 57
p0 6213 ± 5.952
8000
7500
7000
6500
6000
5500

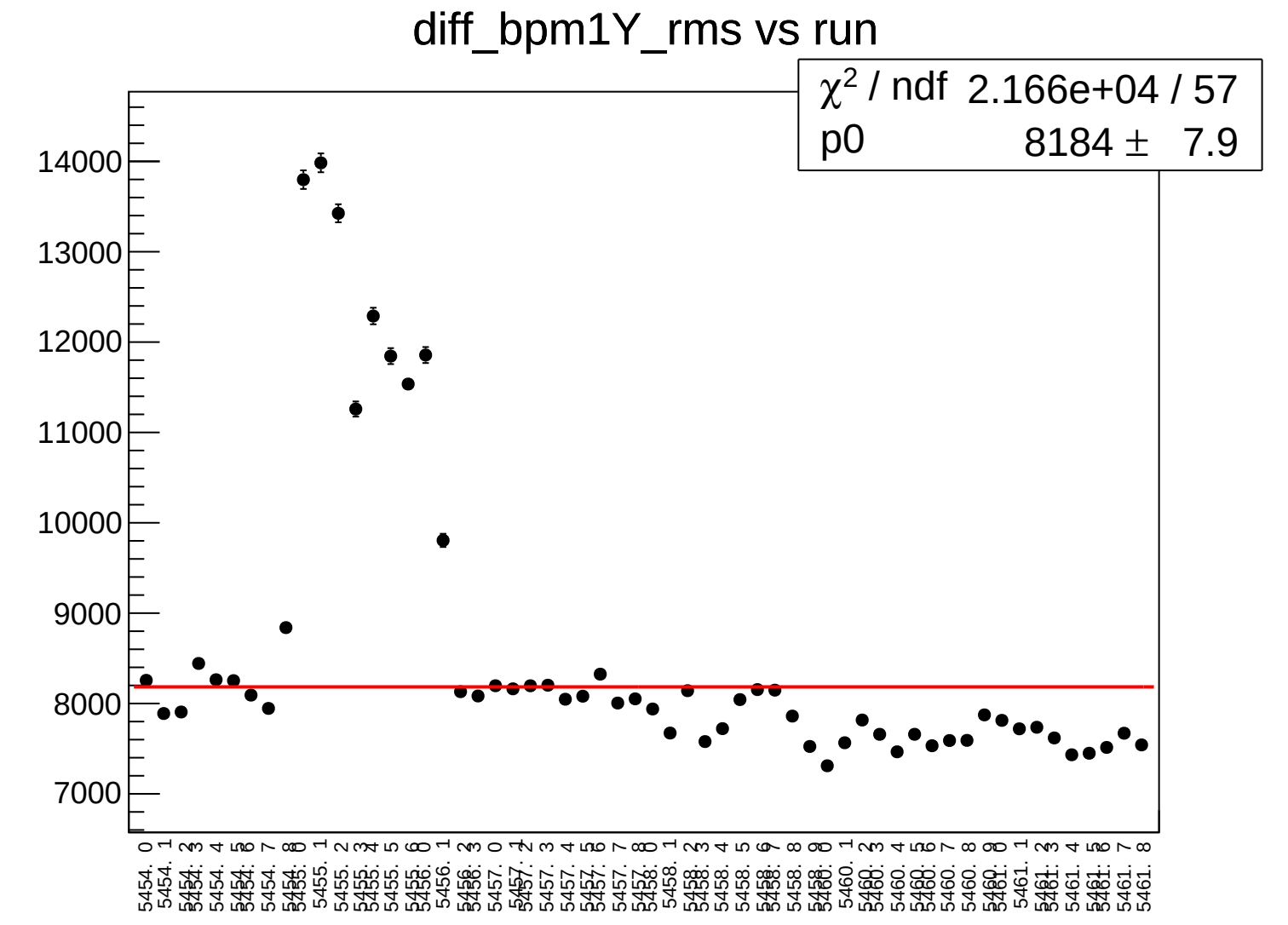

diff_bpm1X_mean vs run
χ^2 / ndf 81.84 / 57
p0 0.2489 ± 14.75
pull
Entries 58
Mean 179.7
Std Dev 150.9

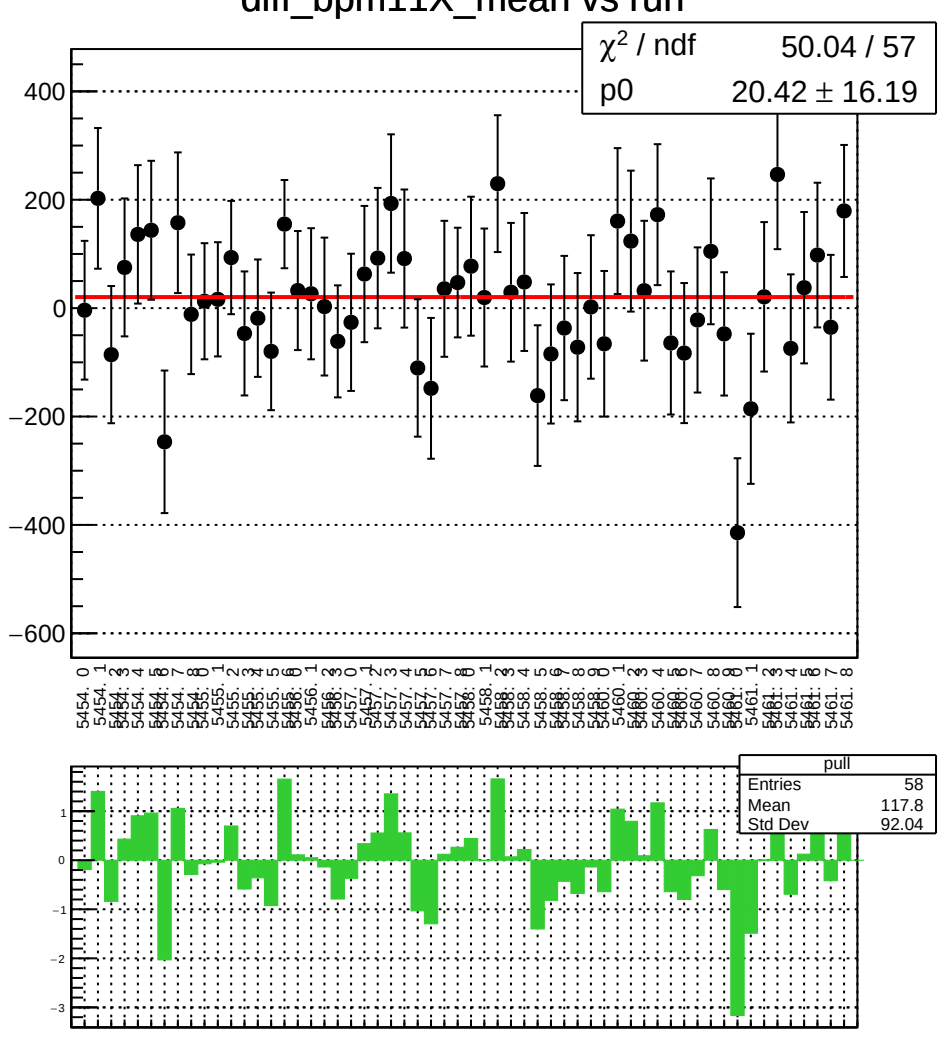

pull1D
Entries 58
Mean −0.03024
Std Dev 1.188

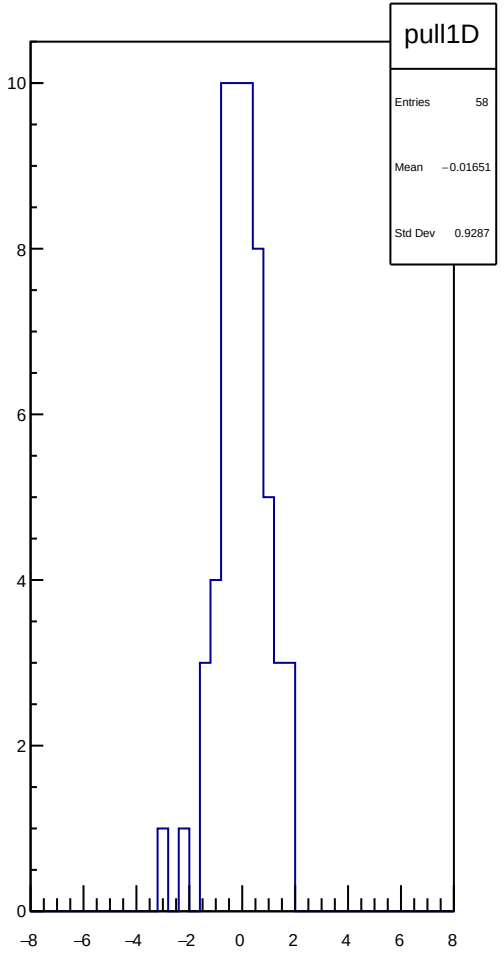

diff_bpm1X_rms vs run
χ² / ndf 2938 / 57
p0 1.09e+04 ± 10.43
11500
11000
10500
10000
9500

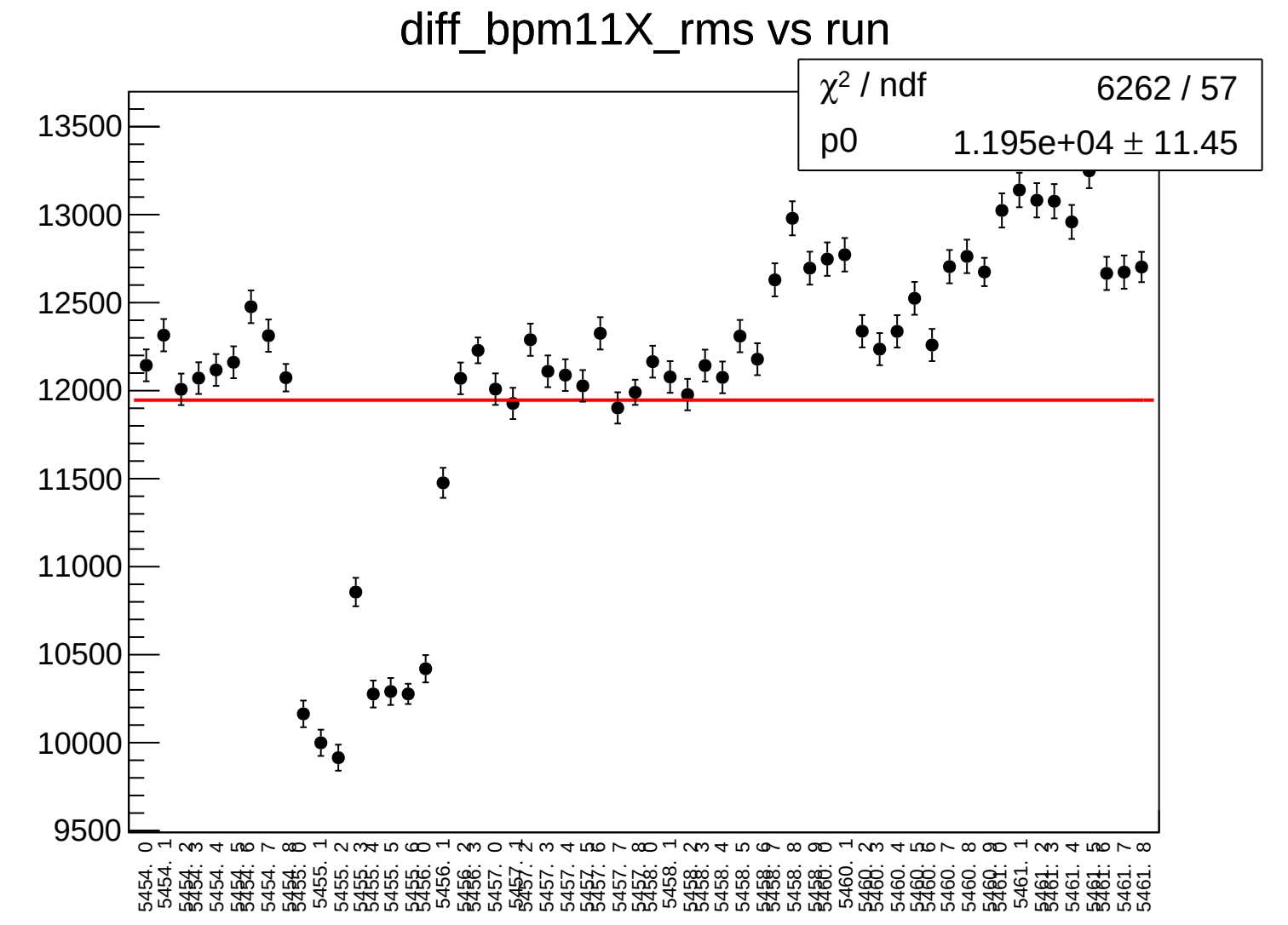

diff_bpm1Y_mean vs run
χ² / ndf 49.37 / 57
p0 −1.198 ± 11.17
pull
Entries 58
Mean −46.79
Std Dev 112.1

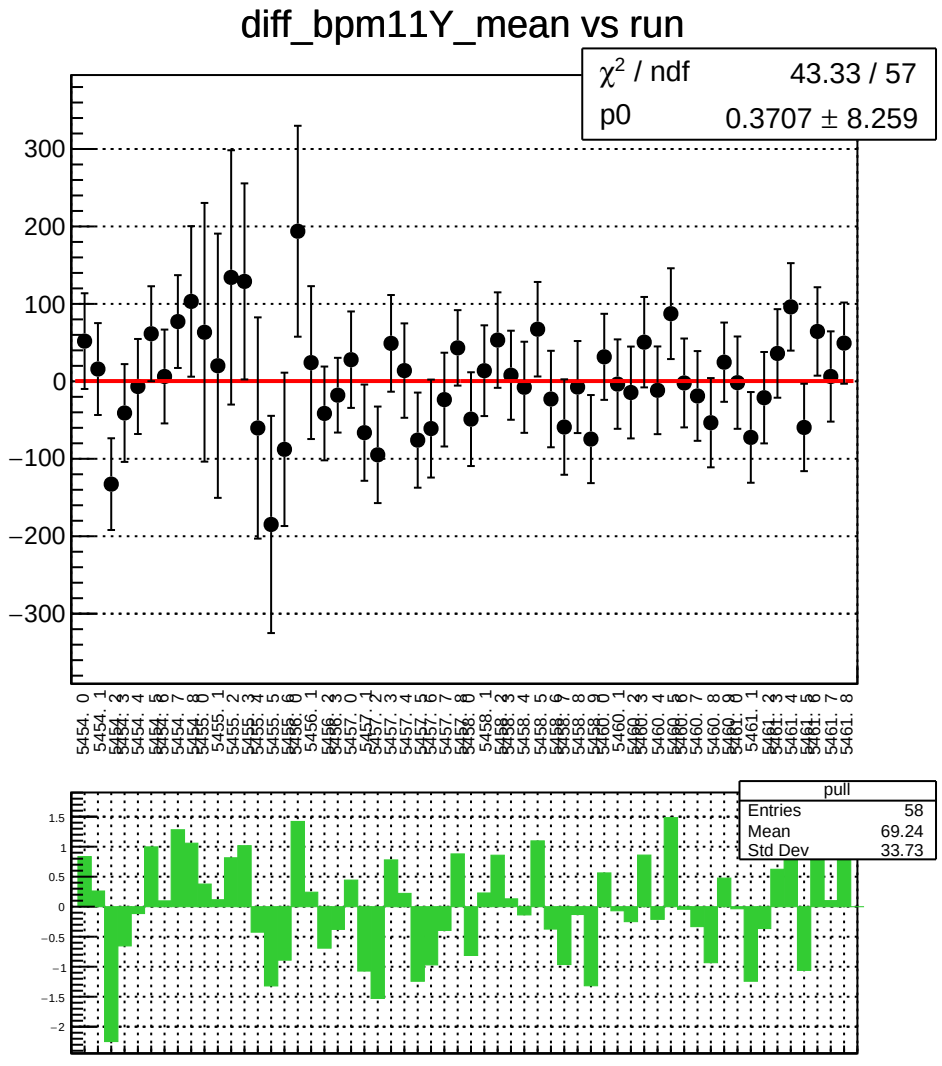

pull1D
Entries 58
Mean 0.00493
Std Dev 0.9226

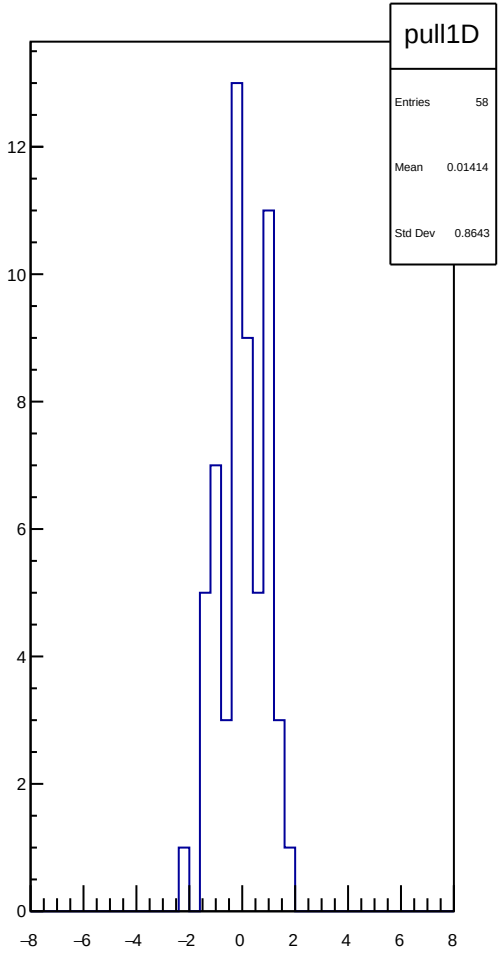

diff_bpm1Y_rms vs run
χ² / ndf 2.166e+04 / 57
p0 8184 ± 7.9
14000
13000
12000
11000
10000
9000
8000
7000

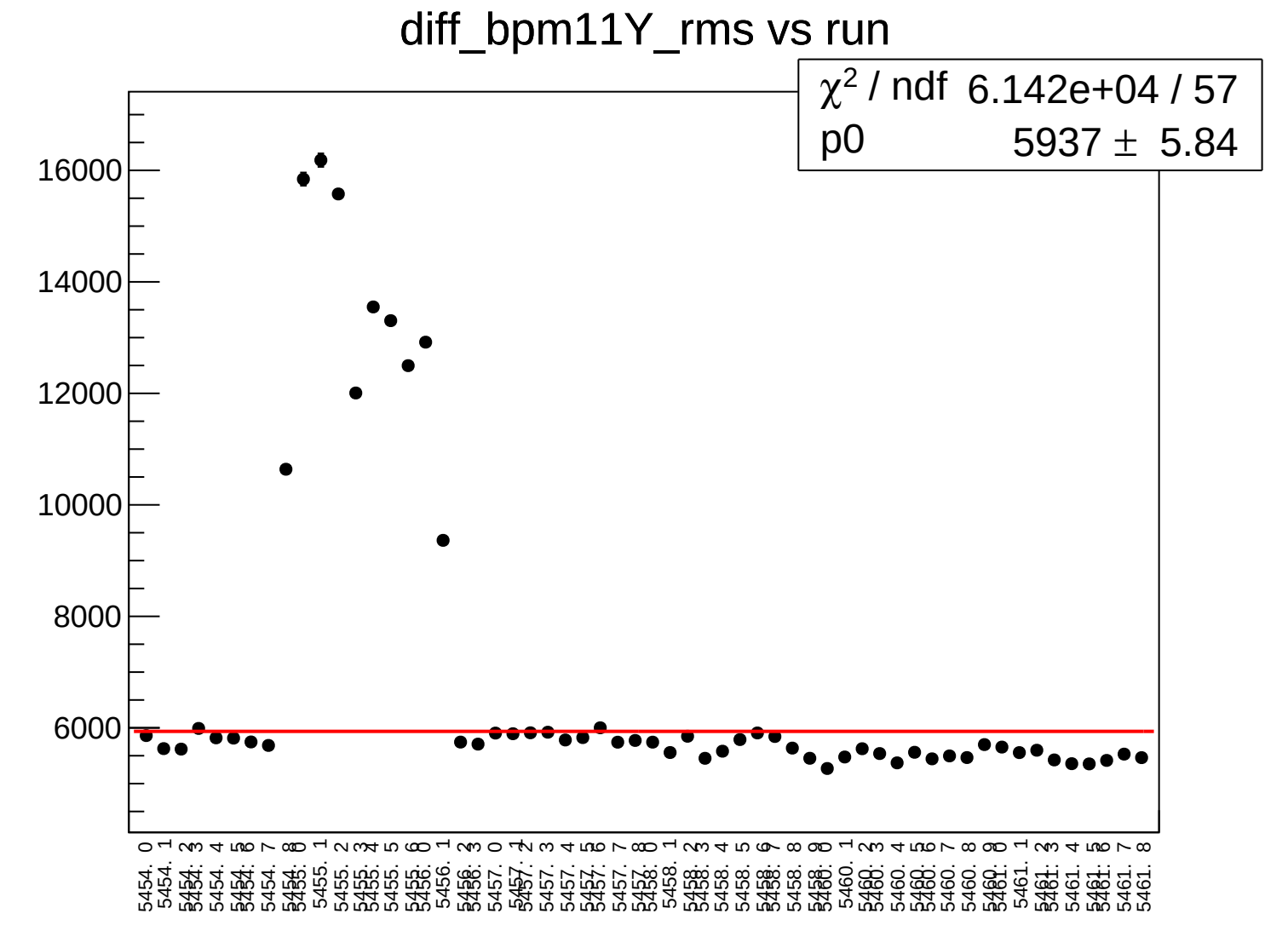

diff_bpm11X_mean vs run
χ^2 / ndf 50.04 / 57
p0 20.42 ± 16.19
pull
Entries 58
Mean 117.8
Std Dev 92.04

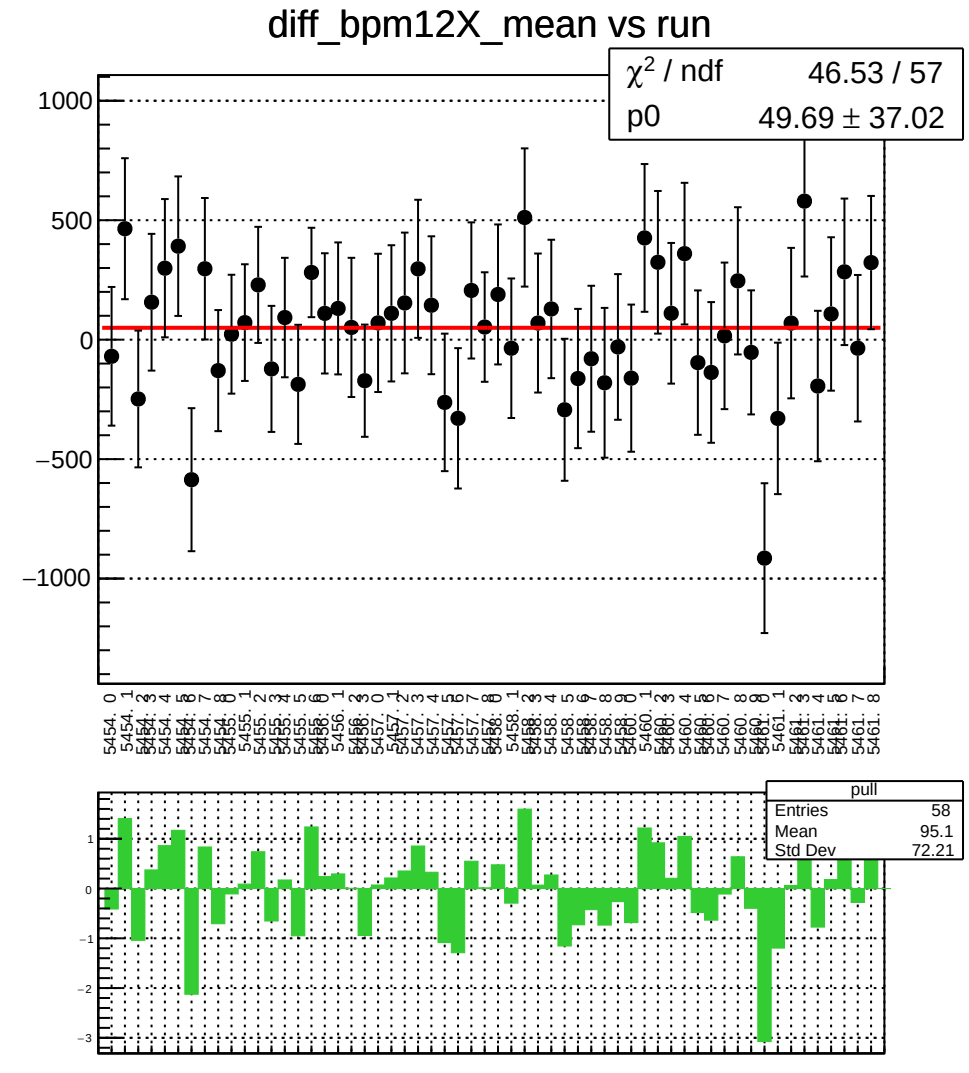

pull1D
Entries 58
Mean −0.01651
Std Dev 0.9287

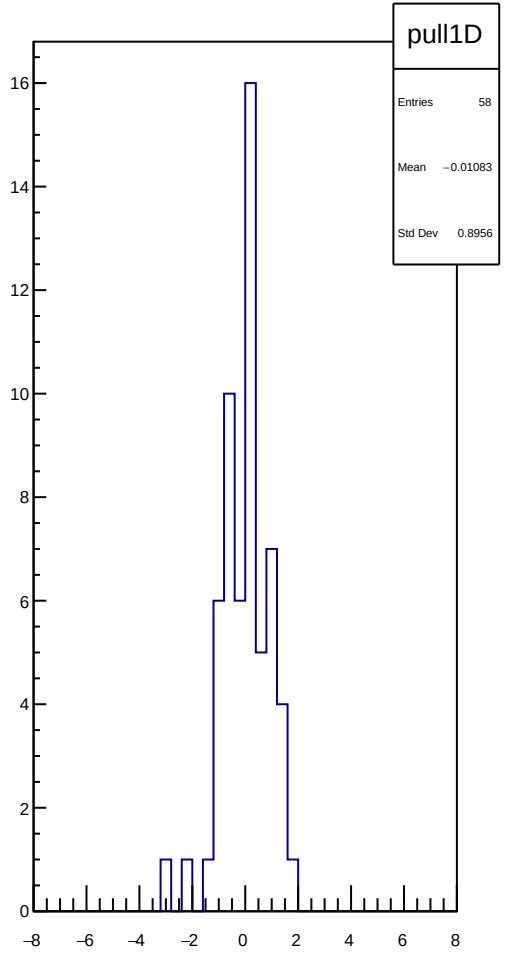

diff_bpm11X_rms vs run
χ² / ndf 6262 / 57
p0 1.195e+04 ± 11.45
13500
13000
12500
12000
11500
11000
10500
10000
9500

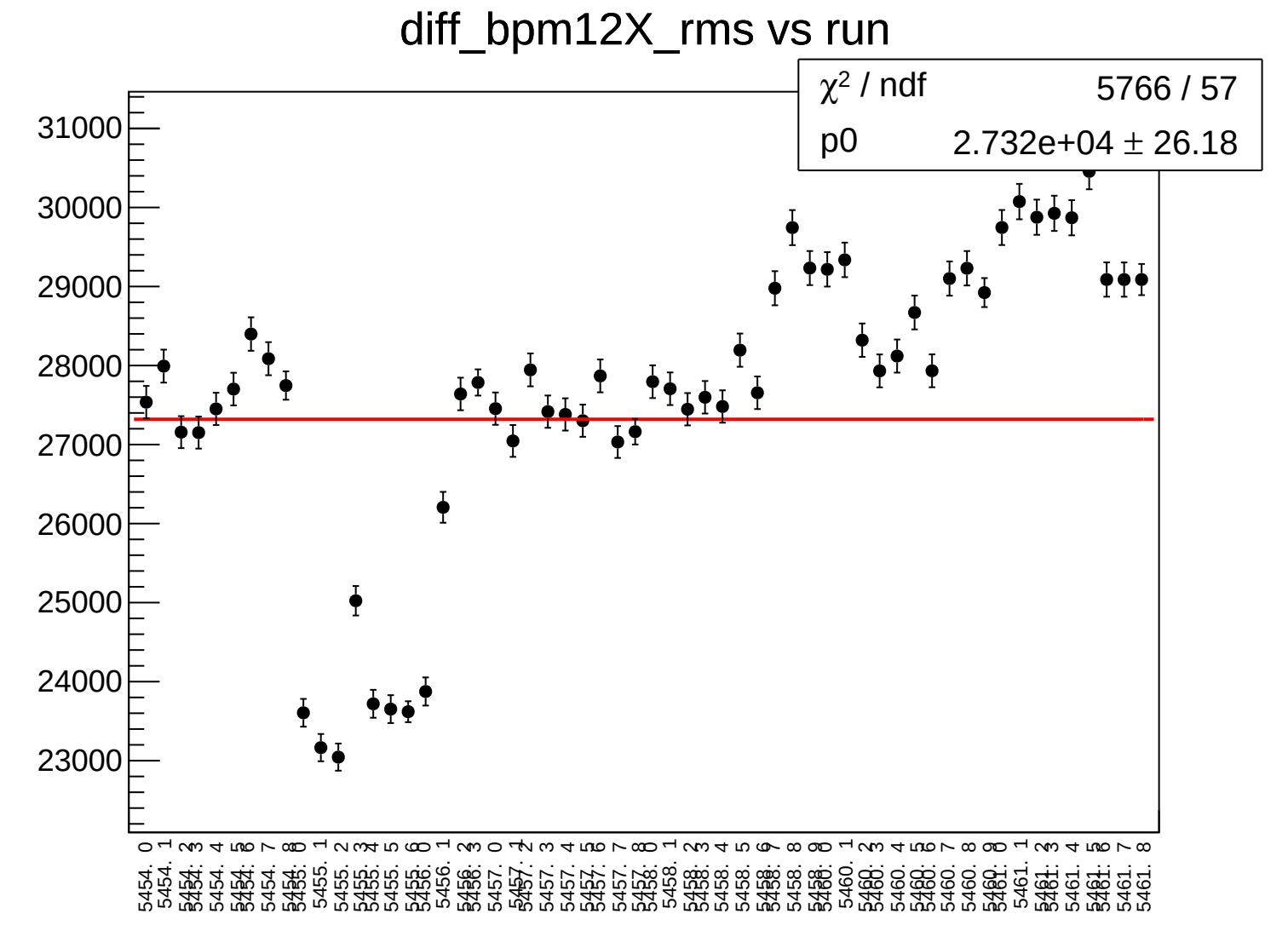

diff_bpm11Y_mean vs run
χ² / ndf 43.33 / 57
p0 0.3707 ± 8.259
pull
Entries 58
Mean 69.24
Std Dev 33.73

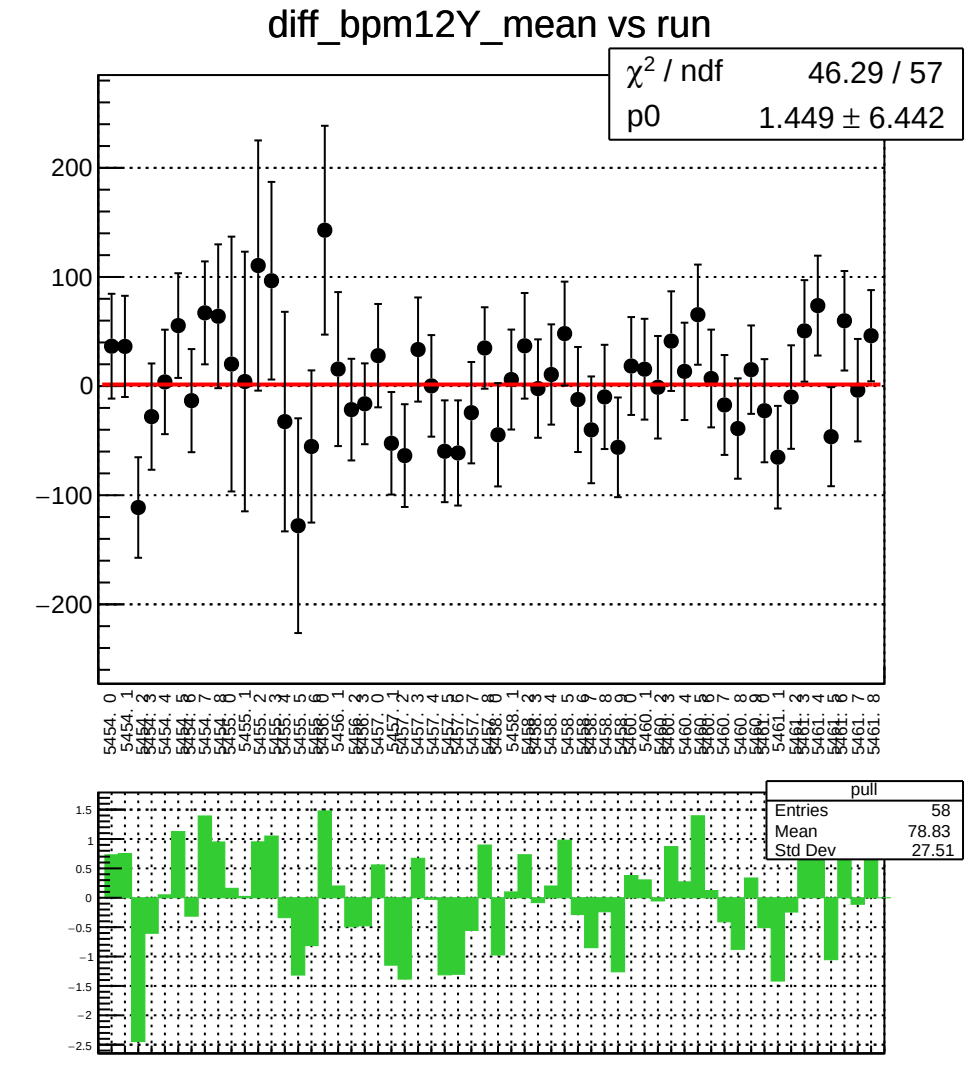

pull1D
Entries 58
Mean 0.01414
Std Dev 0.8643

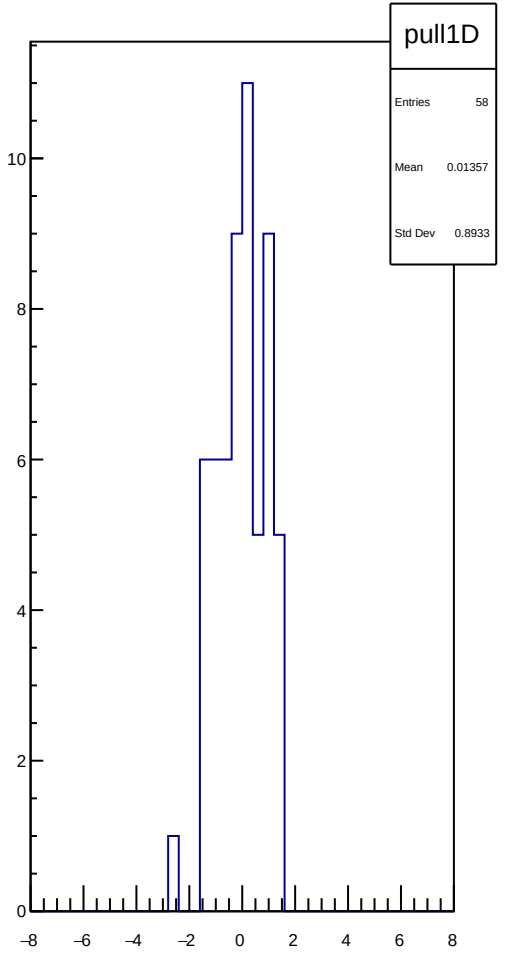

diff_bpm11Y_rms vs run
χ² / ndf 6.142e+04 / 57
p0 5937 ± 5.84
16000
14000
12000
10000
8000
6000

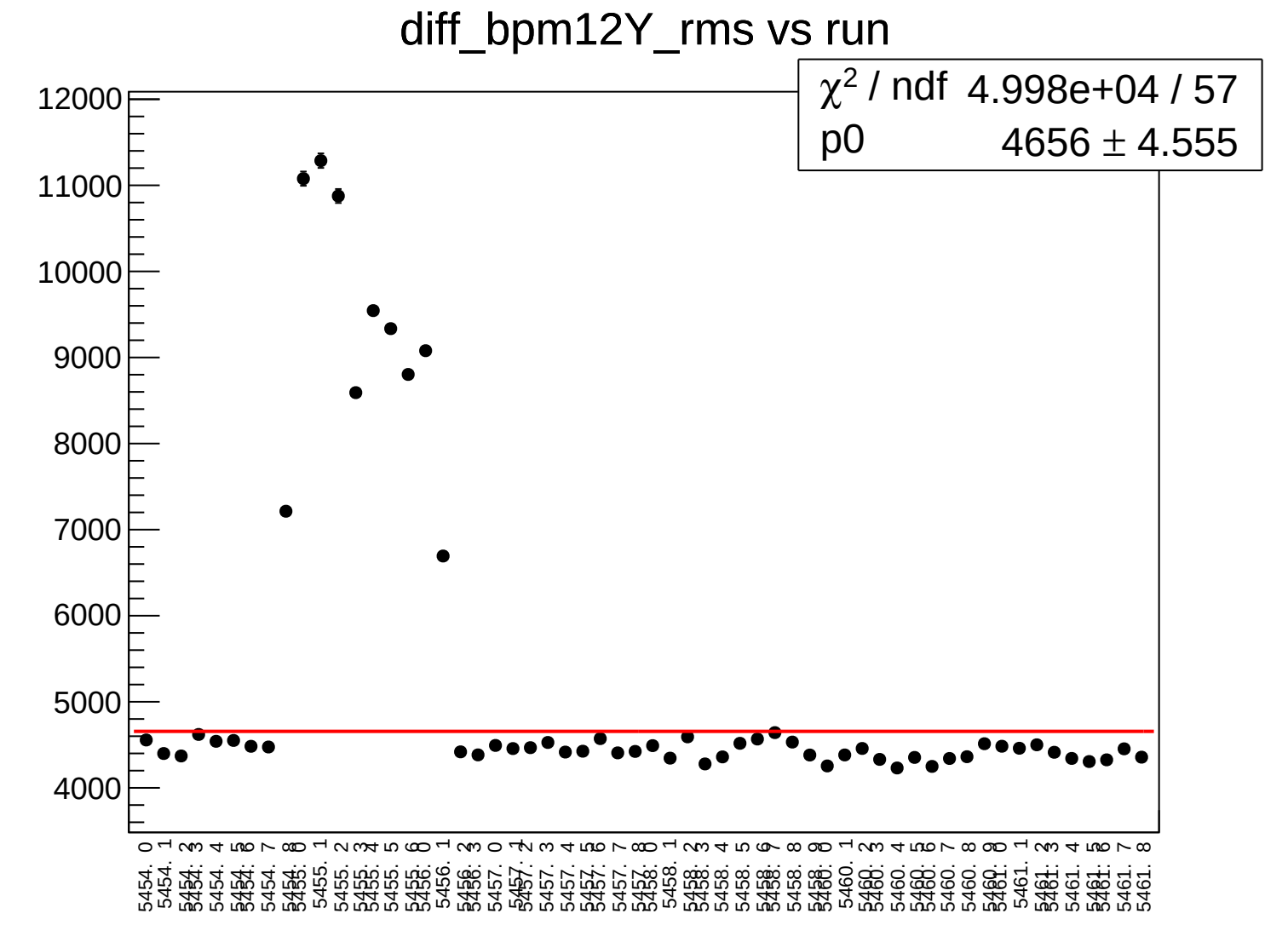

diff_bpm12X_mean vs run
χ^2 / ndf 46.53 / 57
p0 49.69 ± 37.02
1000
500
0
−500
−1000
pull
Entries 58
Mean 95.1
Std Dev 72.21
1
0
−1
−2
−3

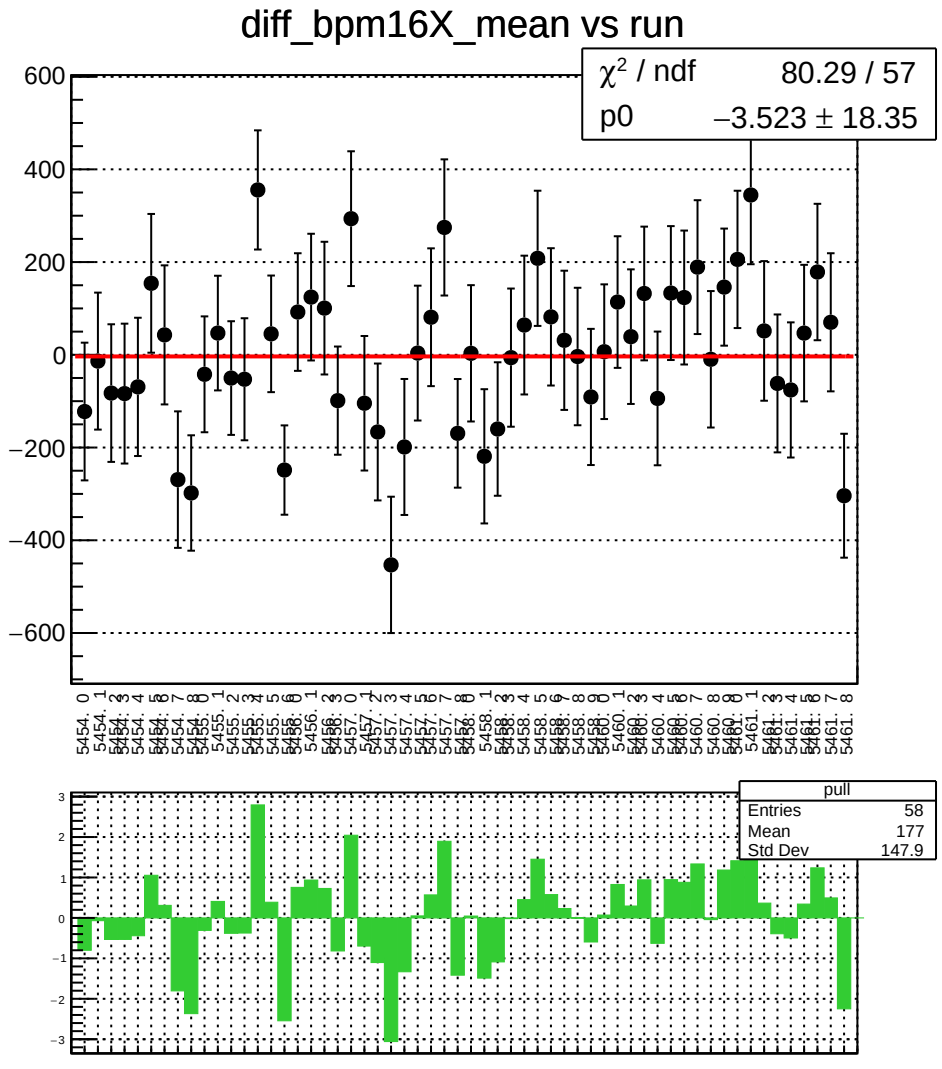

pull1D
Entries 58
Mean −0.01083
Std Dev 0.8956
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

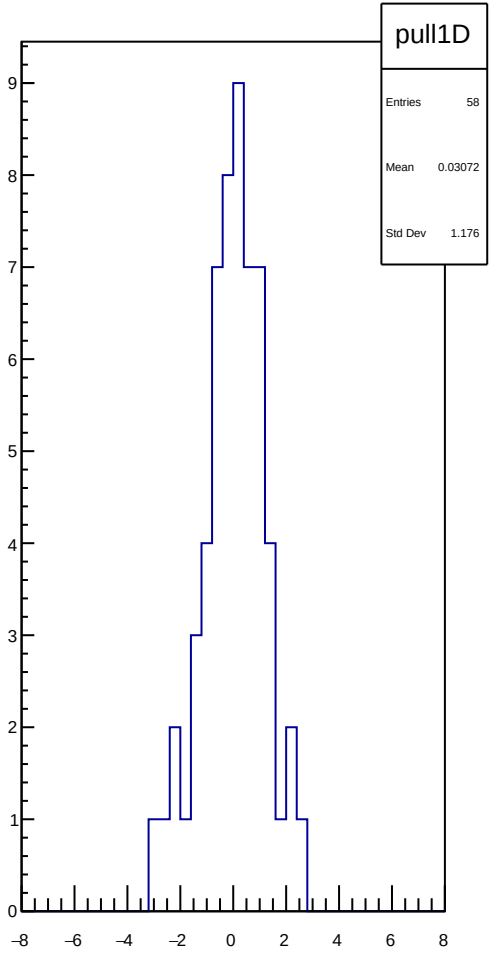

diff_bpm12X_rms vs run
χ² / ndf 5766 / 57
p0 2.732e+04 ± 26.18
31000
30000
29000
28000
27000
26000
25000
24000
23000

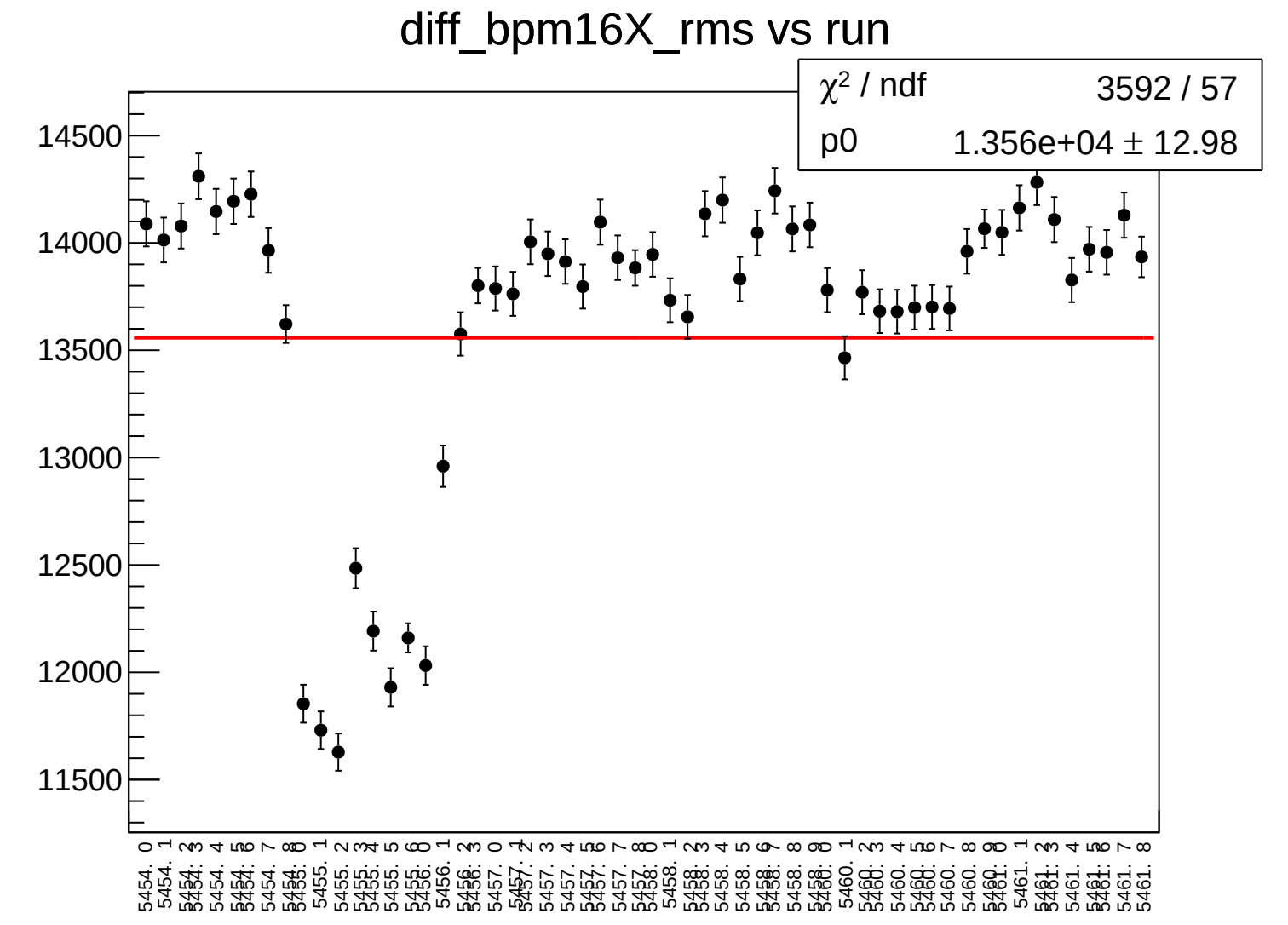

diff_bpm12Y_mean vs run
χ^2 / ndf 46.29 / 57
p0 1.449 ± 6.442
200
100
0
−100
−200
pull
Entries 58
Mean 78.83
Std Dev 27.51
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

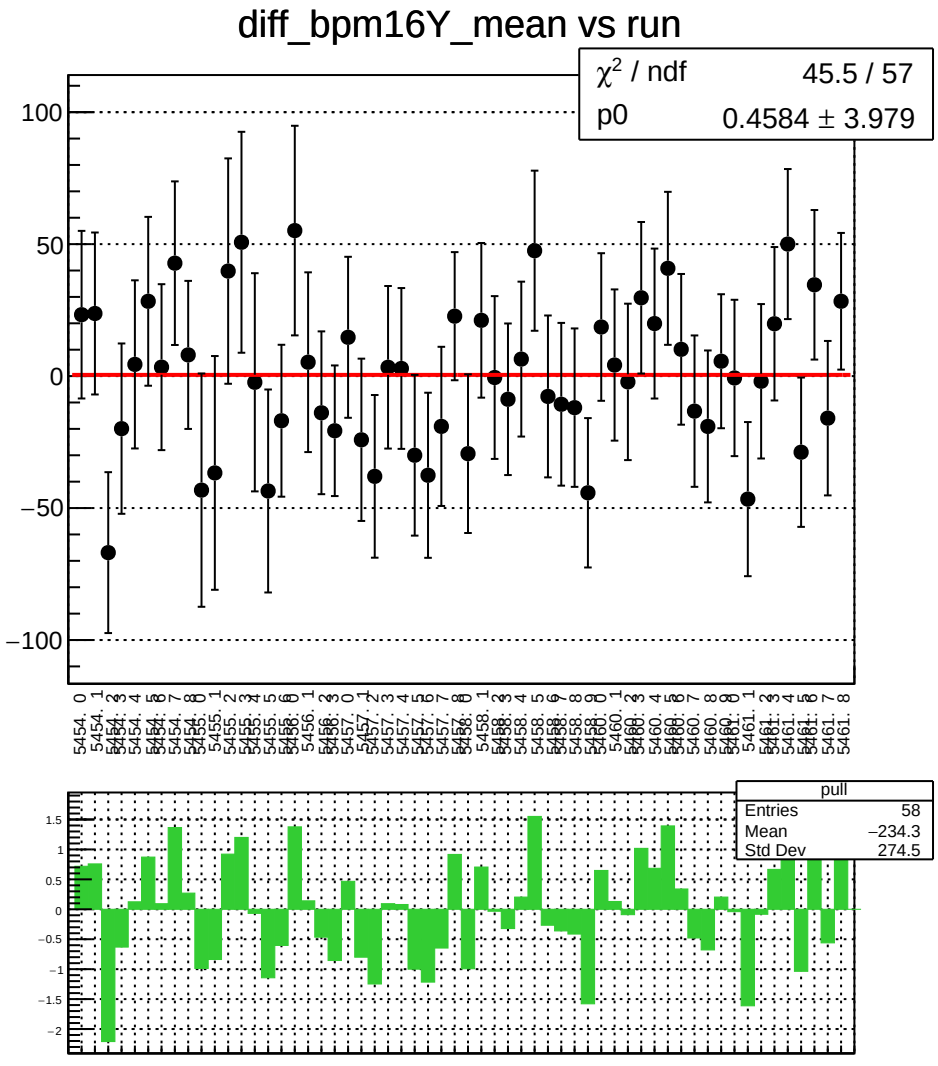

pull1D
Entries 58
Mean 0.01357
Std Dev 0.8933
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

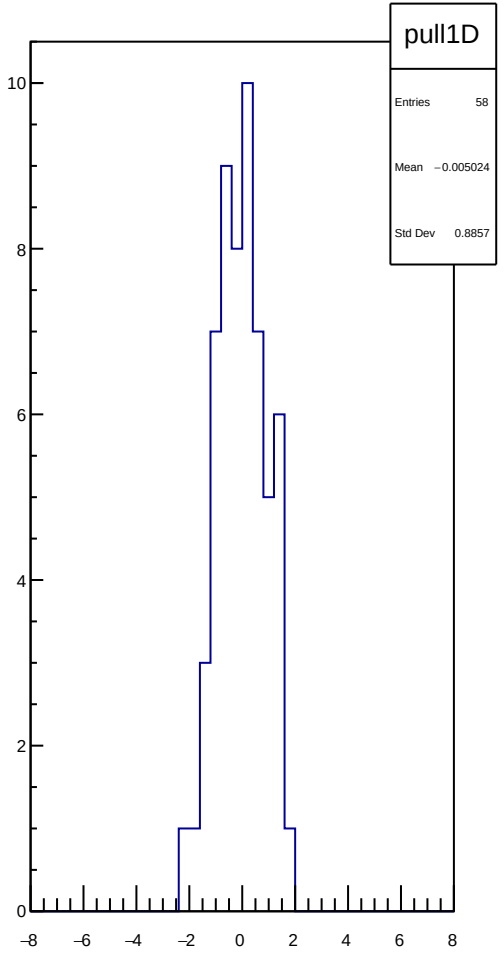

diff_bpm12Y_rms vs run
χ² / ndf 4.998e+04 / 57
p0 4656 ± 4.555
12000
11000
10000
9000
8000
7000
6000
5000
4000

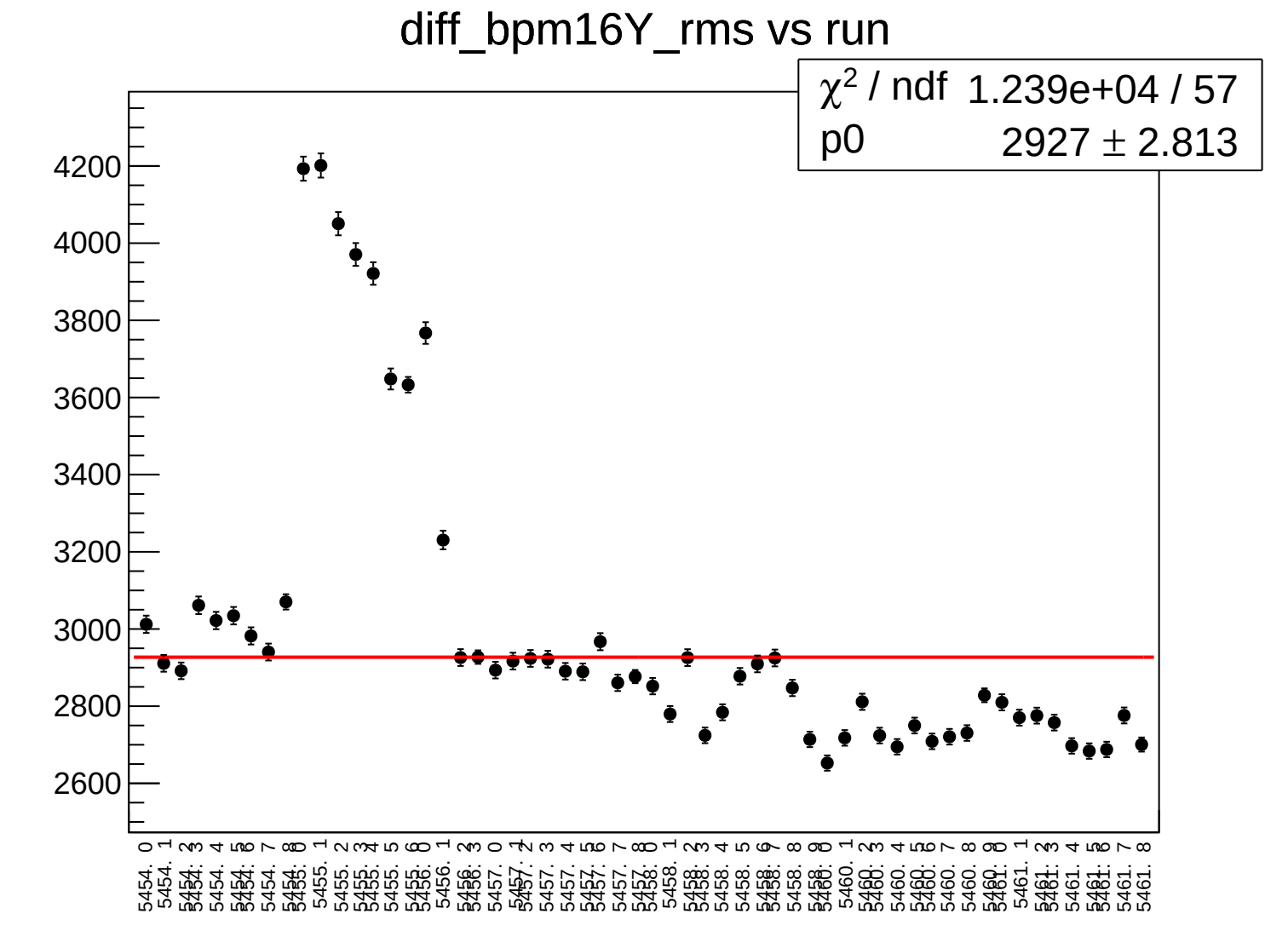

diff_bpm16X_mean vs run
χ² / ndf 80.29 / 57
p0 −3.523 ± 18.35
pull
Entries 58
Mean 177
Std Dev 147.9

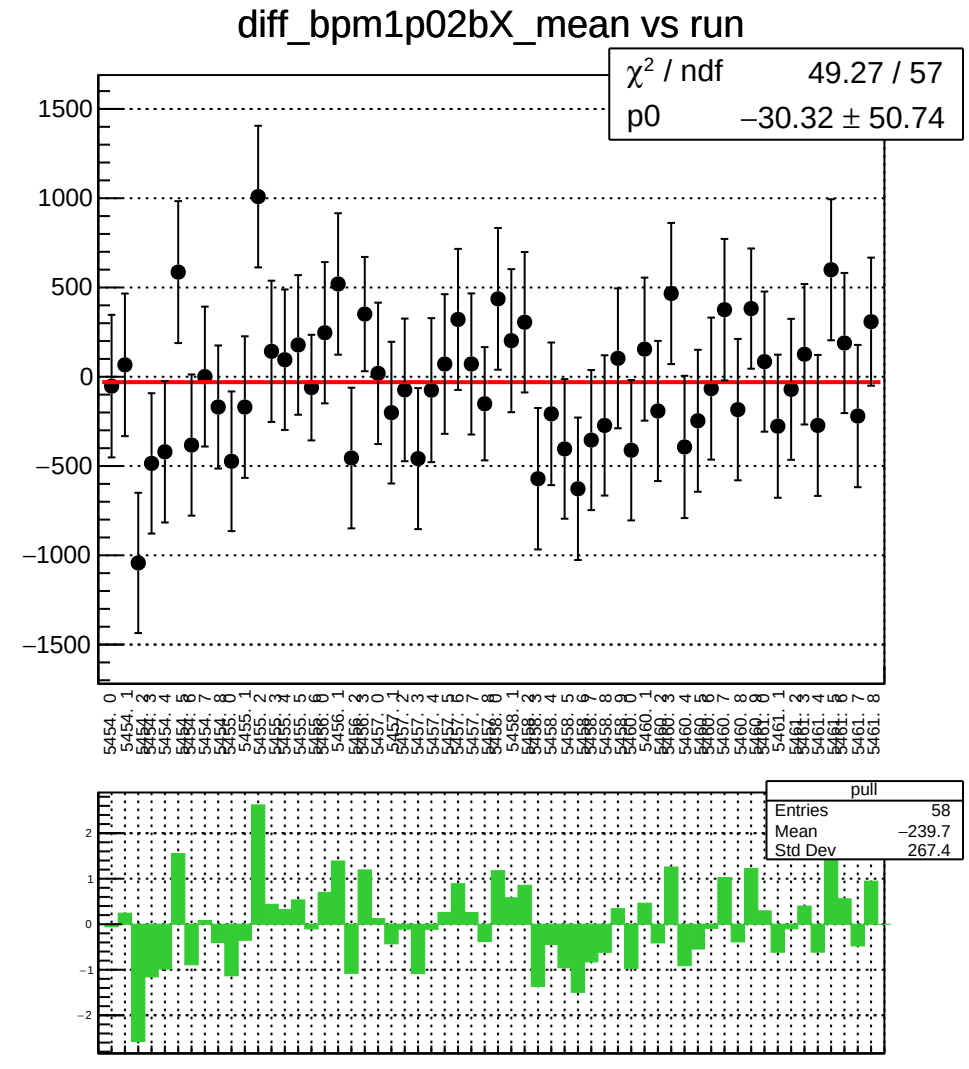

pull1D
Entries 58
Mean 0.03072
Std Dev 1.176

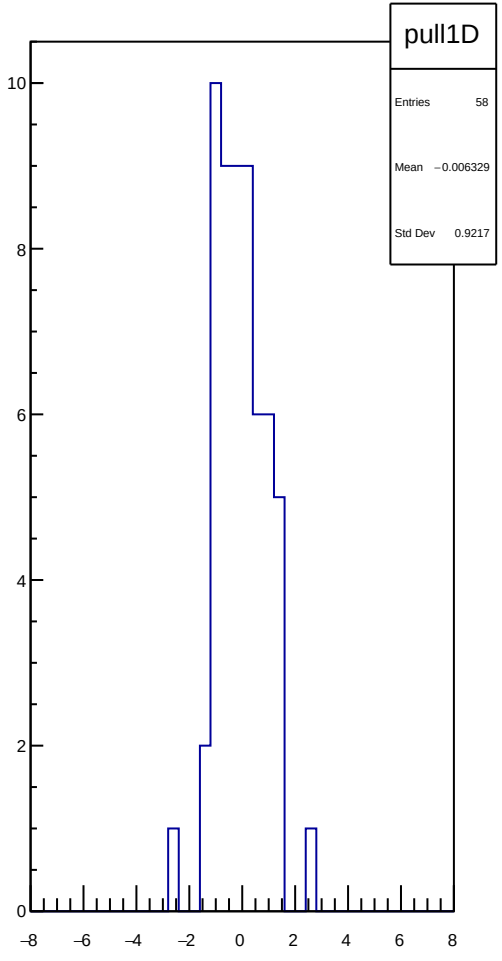

diff_bpm16X_rms vs run
χ² / ndf 3592 / 57
p0 1.356e+04 ± 12.98
14500
14000
13500
13000
12500
12000
11500

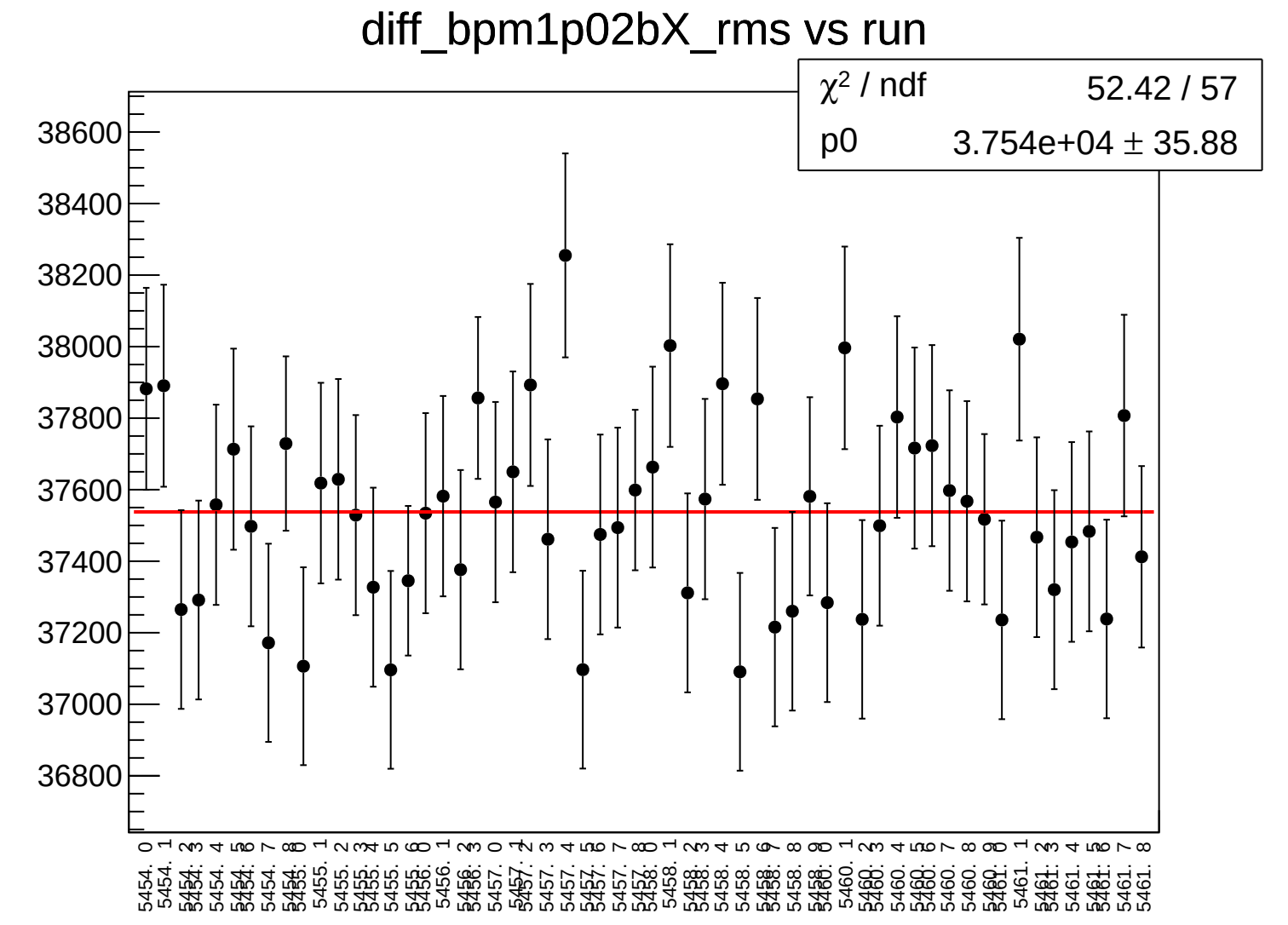

diff_bpm16Y_mean vs run
χ^2 / ndf 45.5 / 57
p0 0.4584 ± 3.979
pull
Entries 58
Mean −234.3
Std Dev 274.5

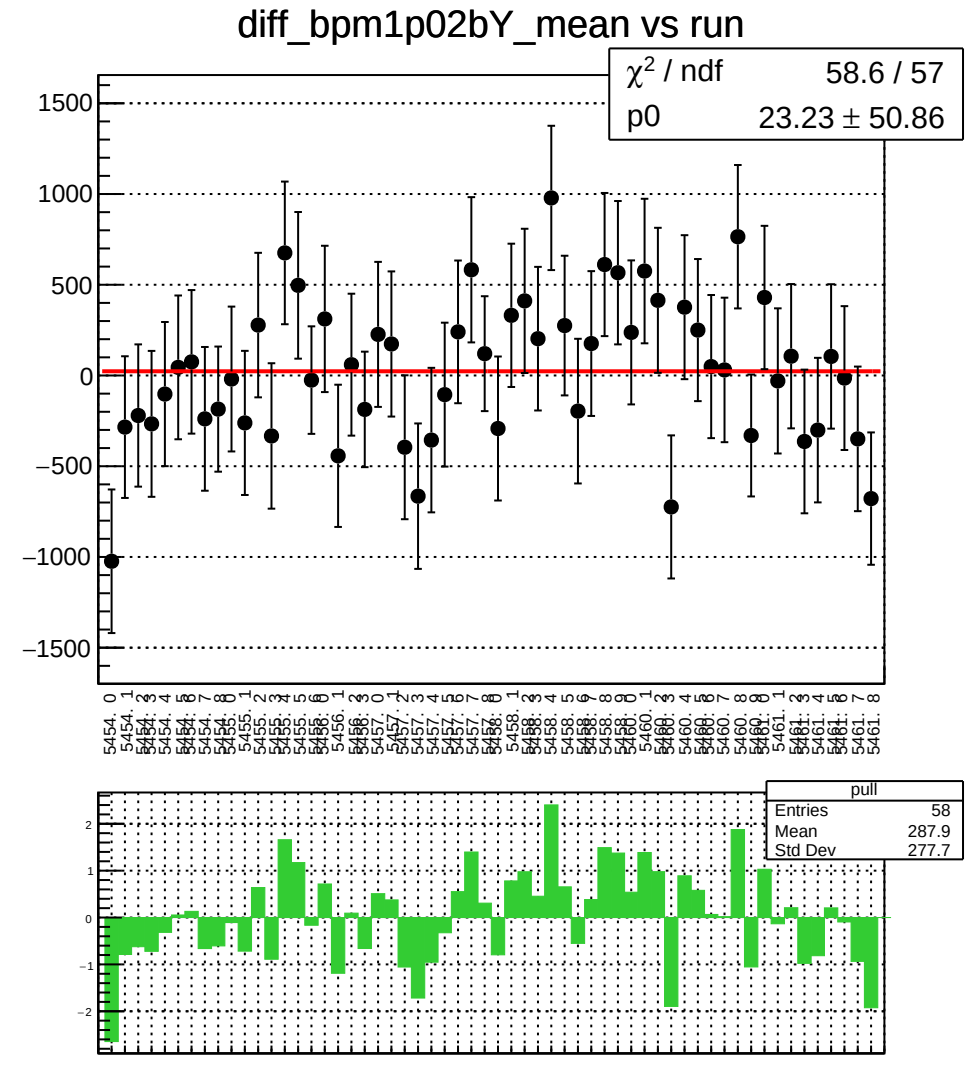

pull1D
Entries 58
Mean −0.005024
Std Dev 0.8857

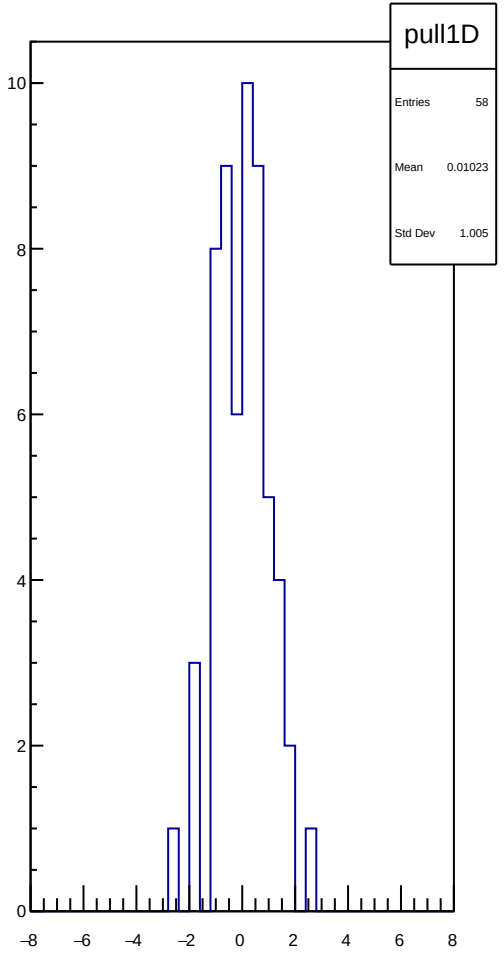

diff_bpm16Y_rms vs run
χ² / ndf 1.239e+04 / 57
p0 2927 ± 2.813
4200
4000
3800
3600
3400
3200
3000
2800
2600

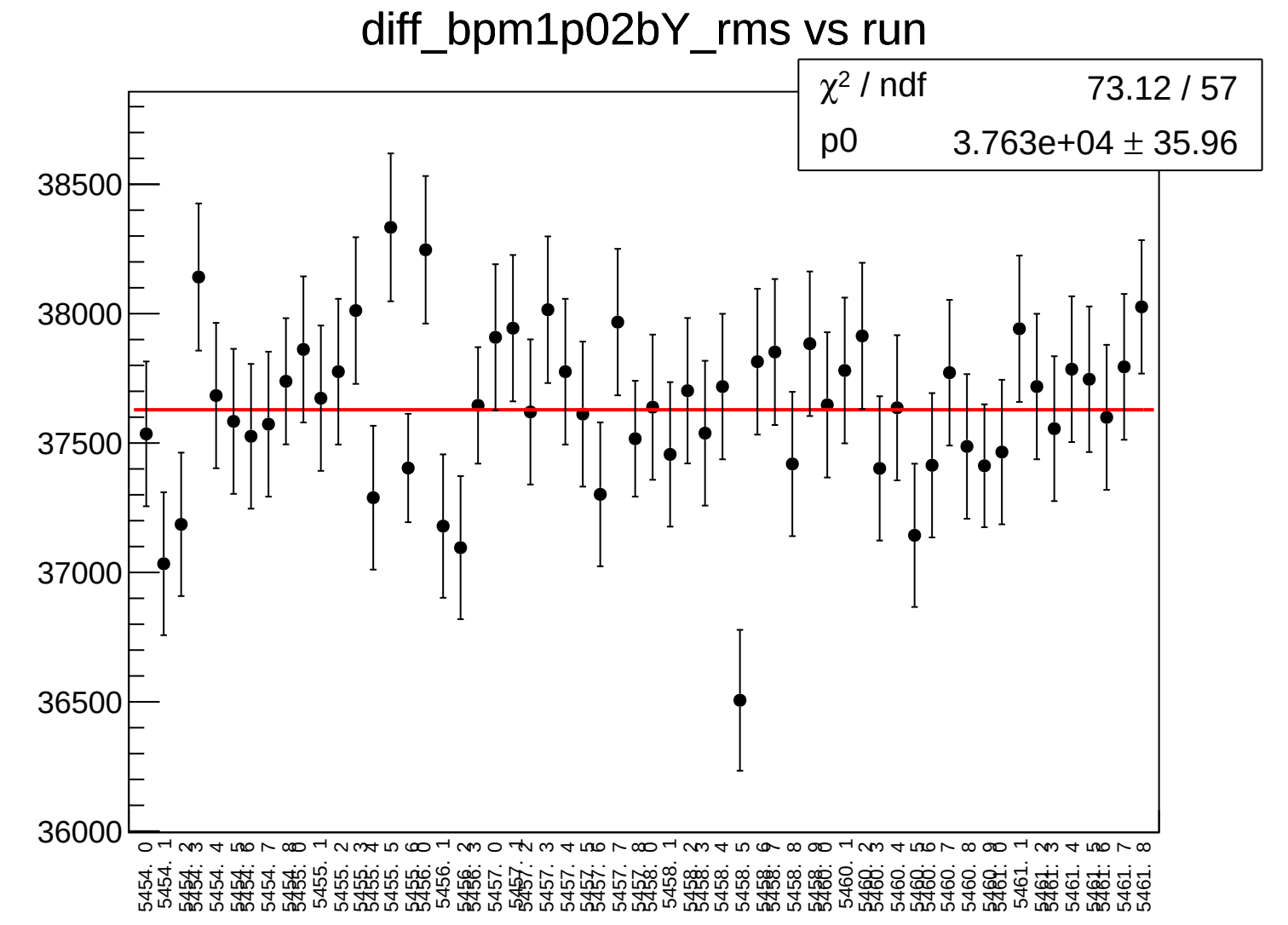

diff_bpm1p02bX_mean vs run
χ² / ndf 49.27 / 57
p0 −30.32 ± 50.74
pull
Entries 58
Mean −239.7
Std Dev 267.4

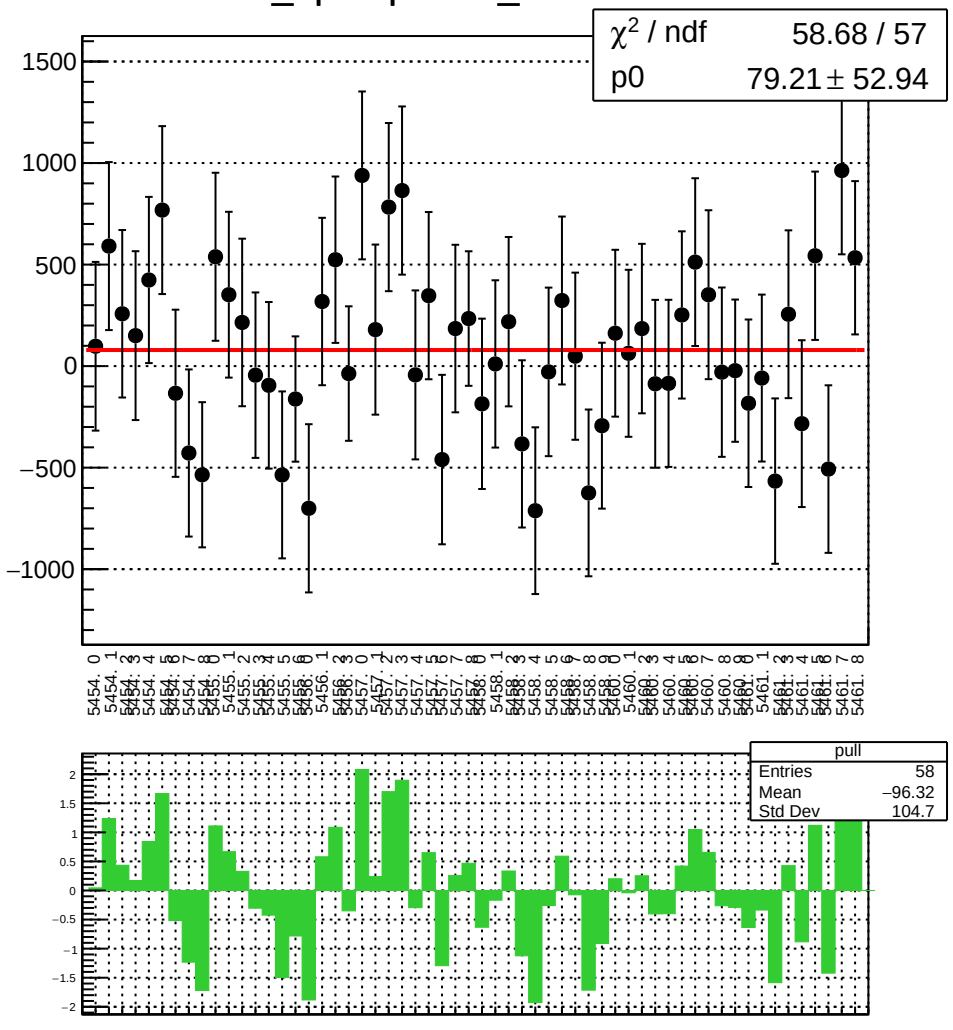

pull1D
Entries 58
Mean −0.006329
Std Dev 0.9217

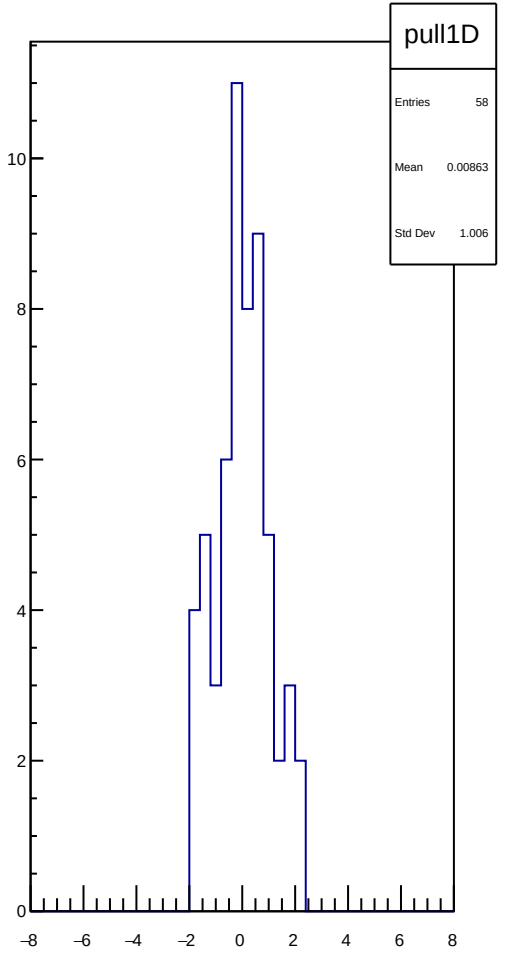

diff_bpm1p02bX_rms vs run
χ² / ndf 52.42 / 57
p0 3.754e+04 ± 35.88
38600
38400
38200
38000
37800
37600
37400
37200
37000
36800

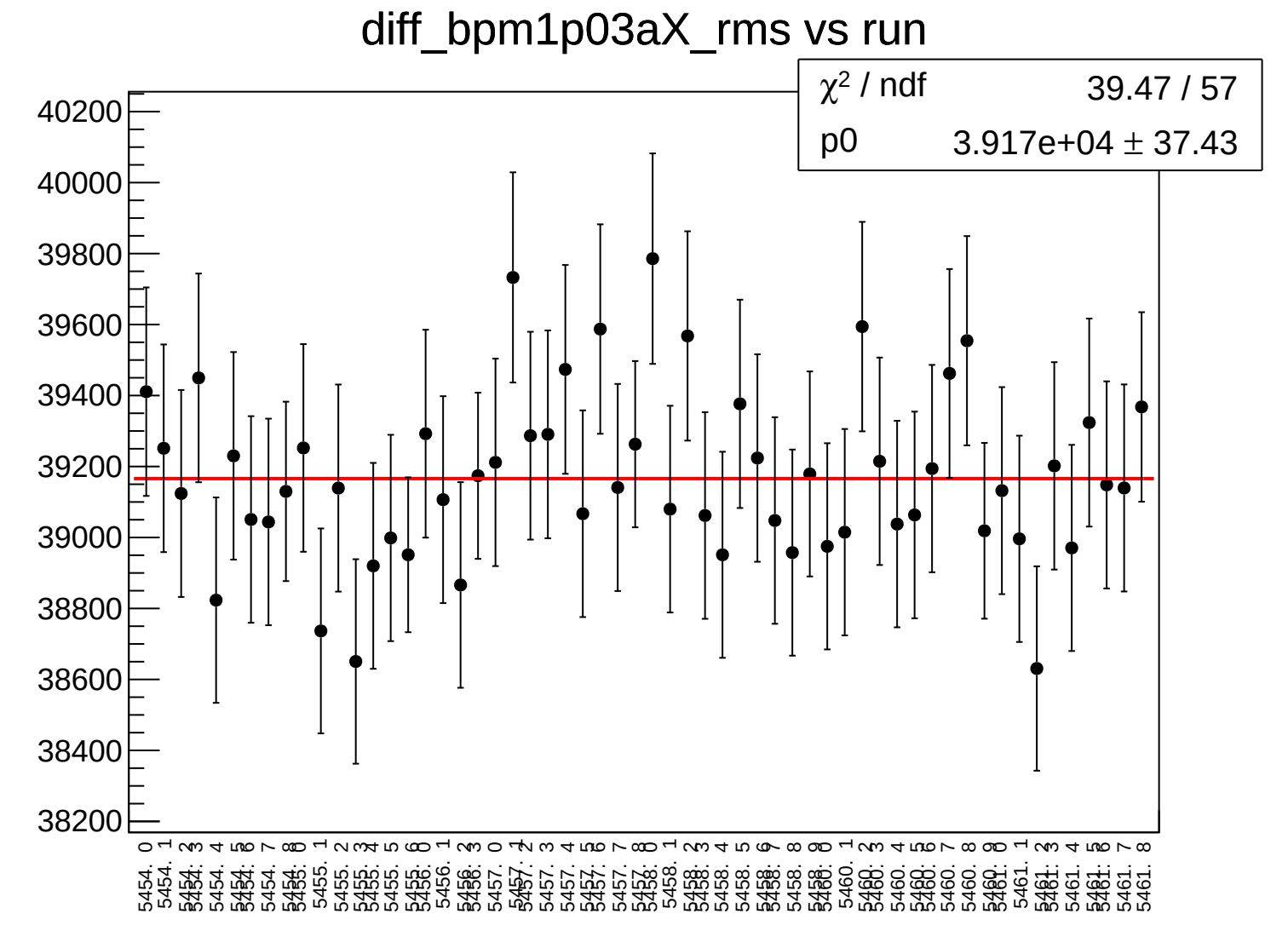

diff_bpm1p02bY_mean vs run
χ² / ndf 58.6 / 57
p0 23.23 ± 50.86
pull
Entries 58
Mean 287.9
Std Dev 277.7

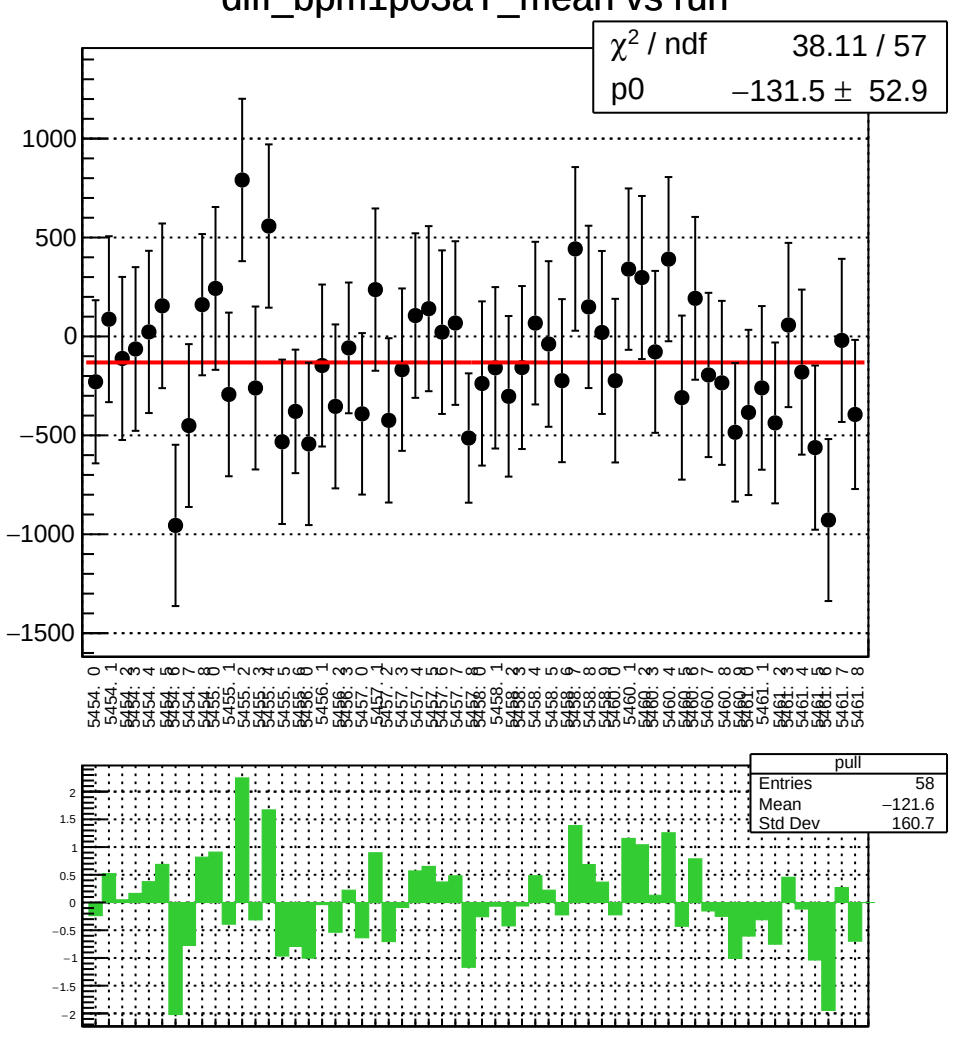

pull1D
Entries 58
Mean 0.01023
Std Dev 1.005

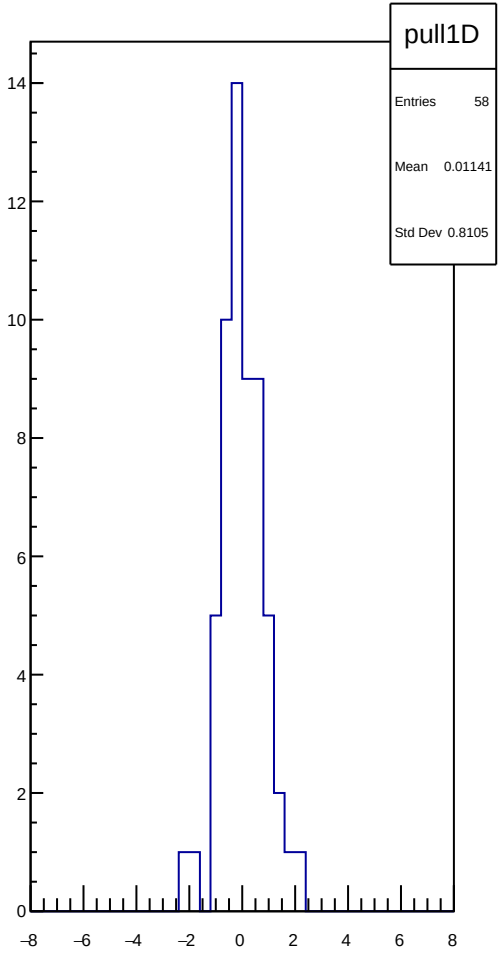

diff_bpm1p02bY_rms vs run
χ² / ndf 73.12 / 57
p0 3.763e+04 ± 35.96
38500
38000
37500
37000
36500
36000

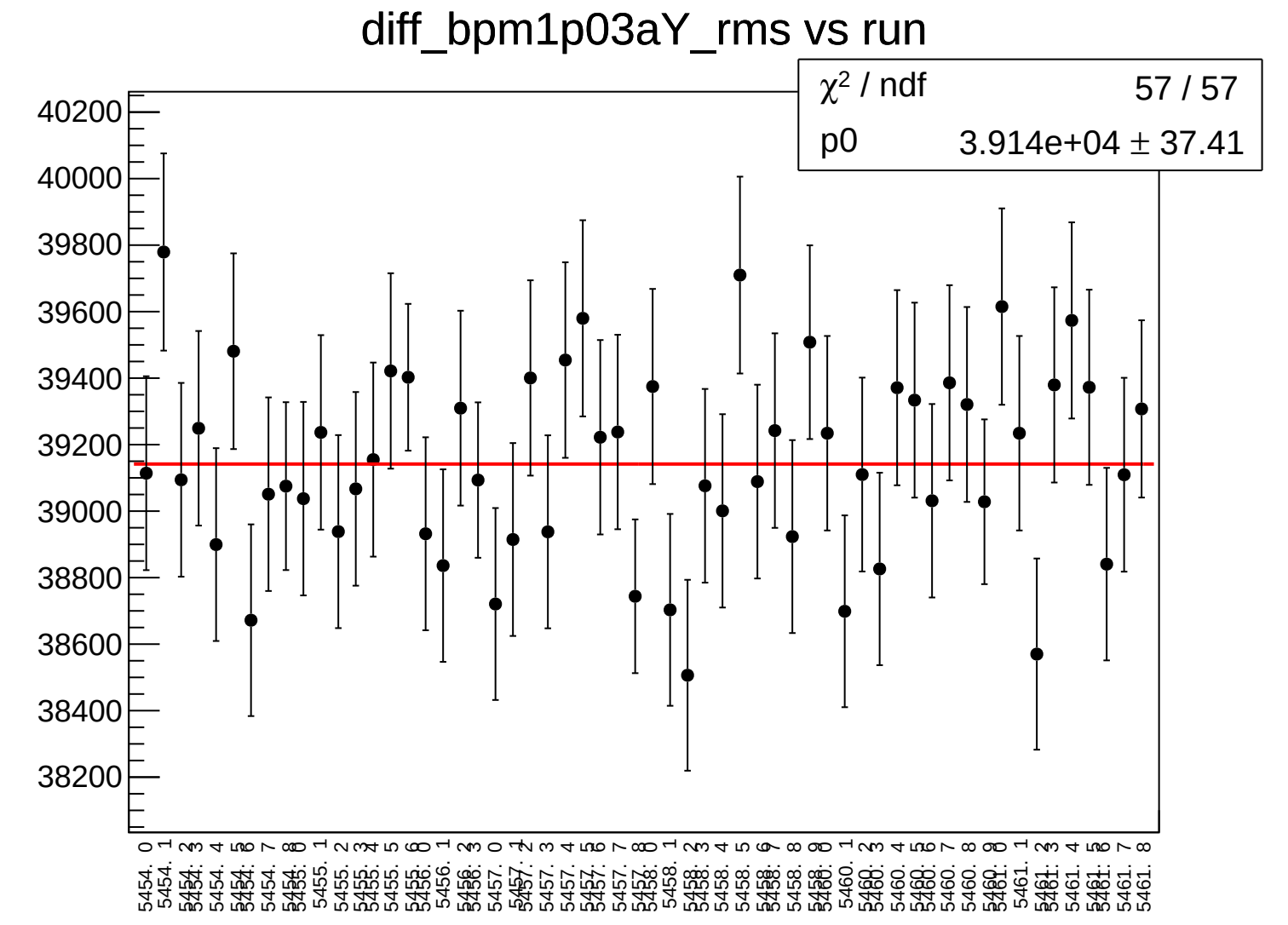

diff_bpm1p03aX_mean vs run
χ² / ndf 58.68 / 57
p0 79.21 ± 52.94
pull
Entries 58
Mean −96.32
Std Dev 104.7

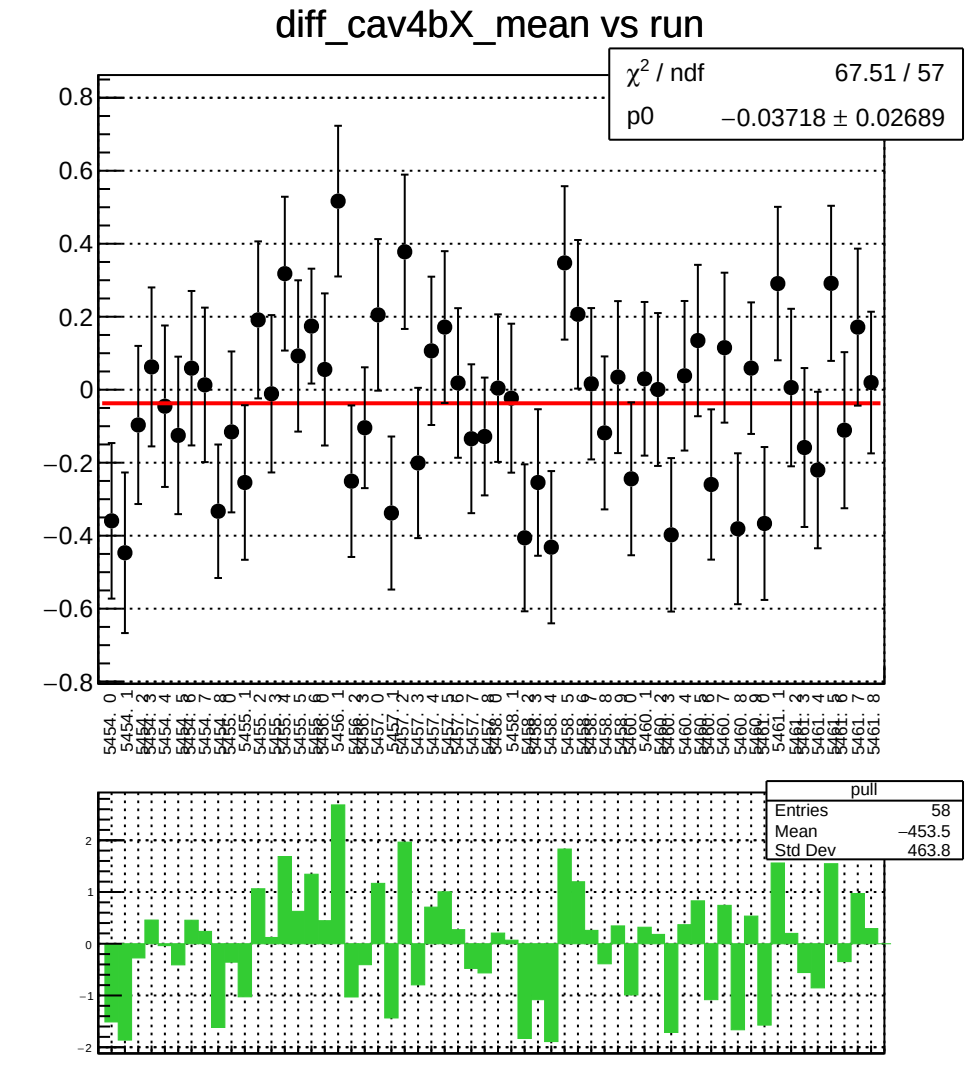

pull1D
Entries 58
Mean 0.00863
Std Dev 1.006

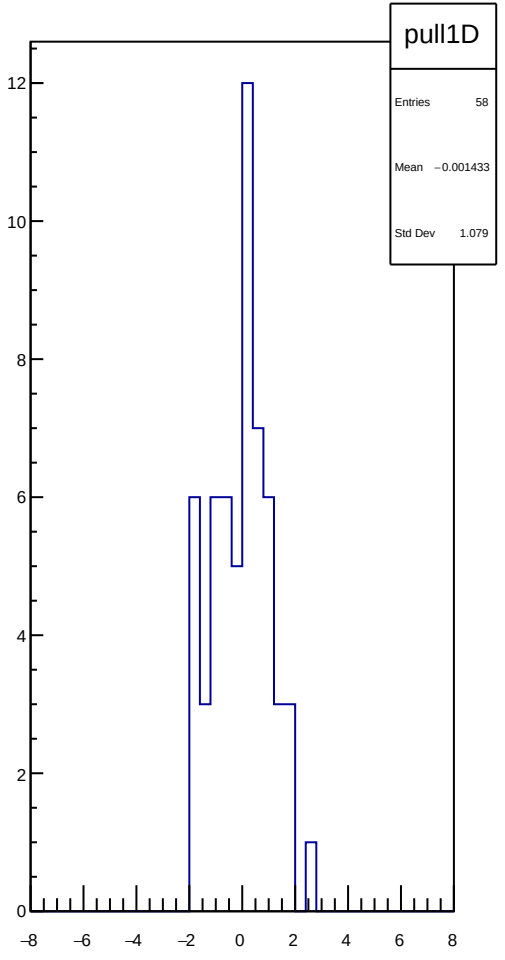

diff_bpm1p03aX_rms vs run
χ² / ndf 39.47 / 57
p0 3.917e+04 ± 37.43
40200
40000
39800
39600
39400
39200
39000
38800
38600
38400
38200

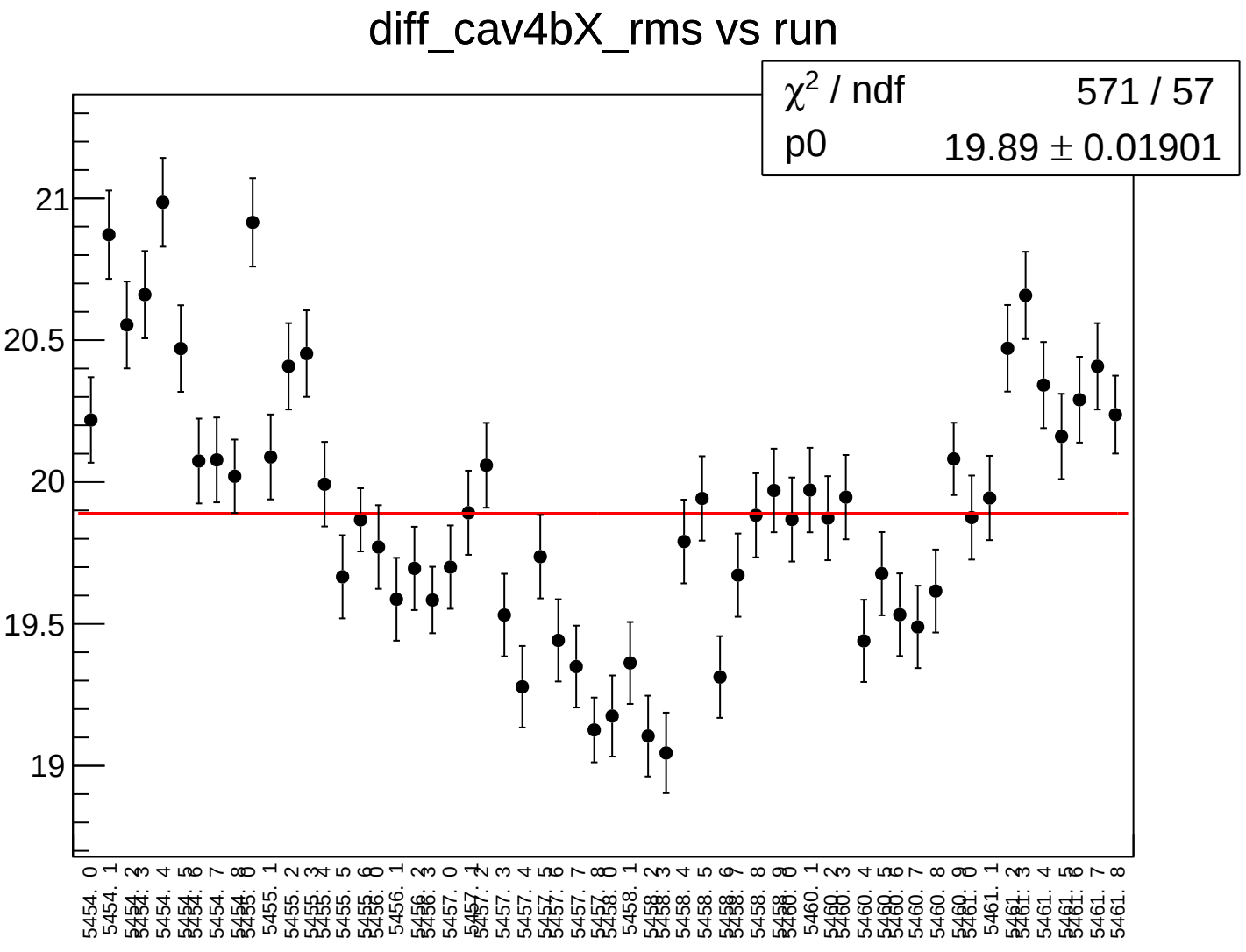

diff_bpm1p03aY_mean vs run
χ² / ndf 38.11 / 57
p0 −131.5 ± 52.9
1000
500
0
−500
−1000
−1500
pull
Entries 58
Mean −121.6
Std Dev 160.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

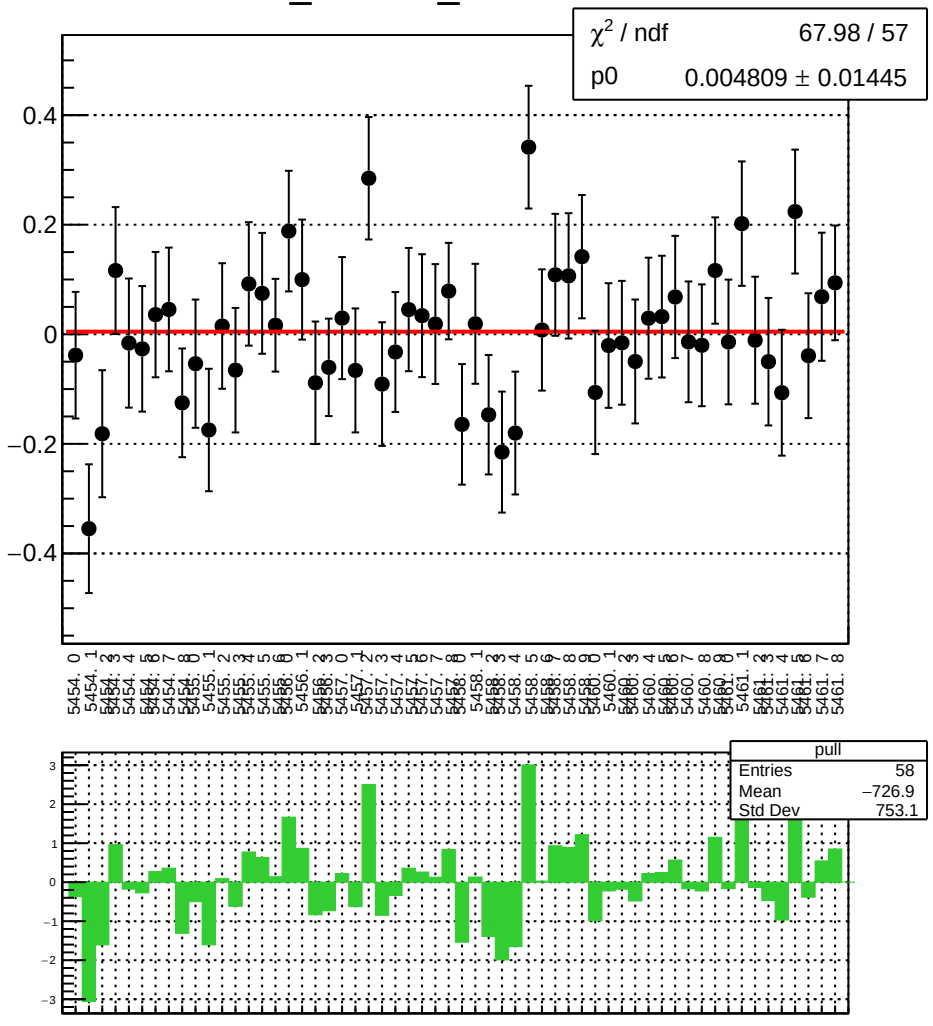

pull1D
Entries 58
Mean 0.01141
Std Dev 0.8105
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

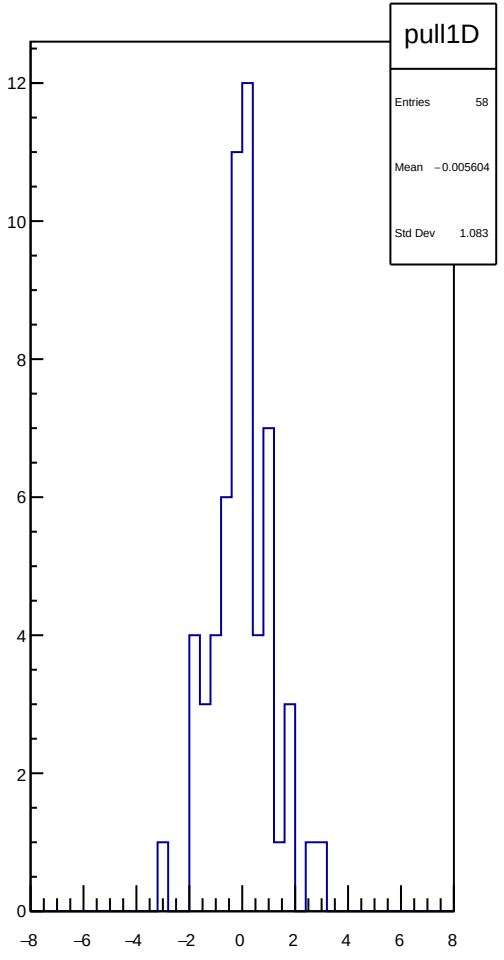

diff_bpm1p03aY_rms vs run
χ² / ndf 57 / 57
p0 3.914e+04 ± 37.41
40200
40000
39800
39600
39400
39200
39000
38800
38600
38400
38200

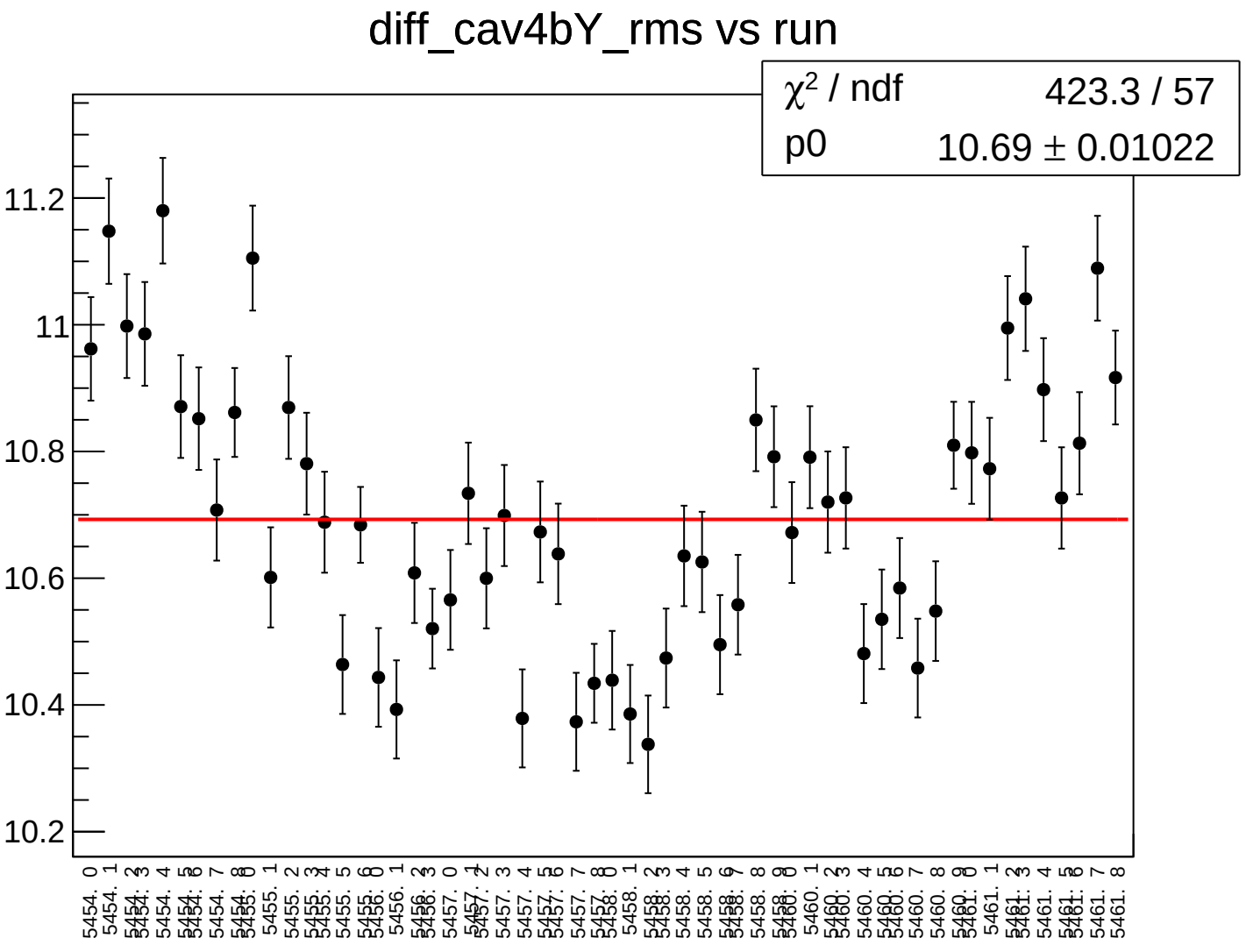

diff_cav4bX_mean vs run
χ² / ndf 67.51 / 57
p0 −0.03718 ± 0.02689
pull
Entries 58
Mean −453.5
Std Dev 463.8

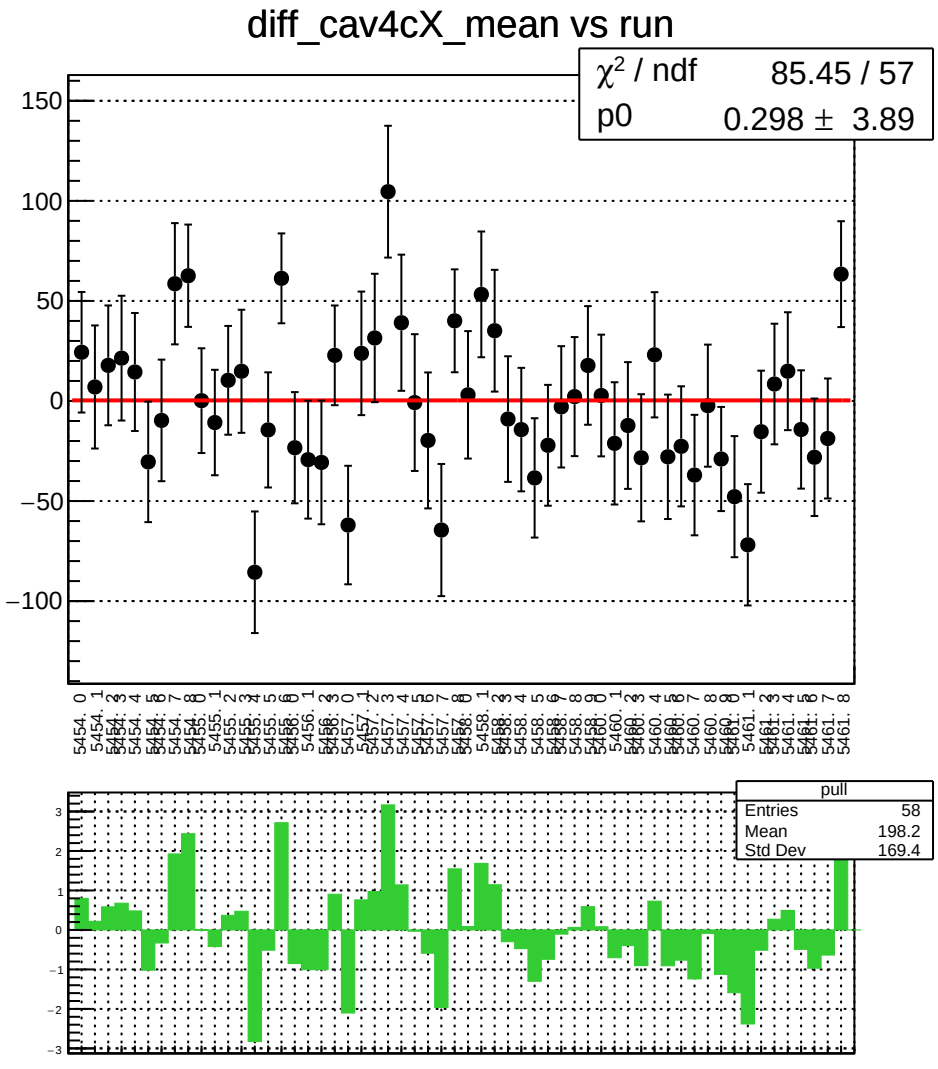

pull1D
Entries 58
Mean −0.001433
Std Dev 1.079

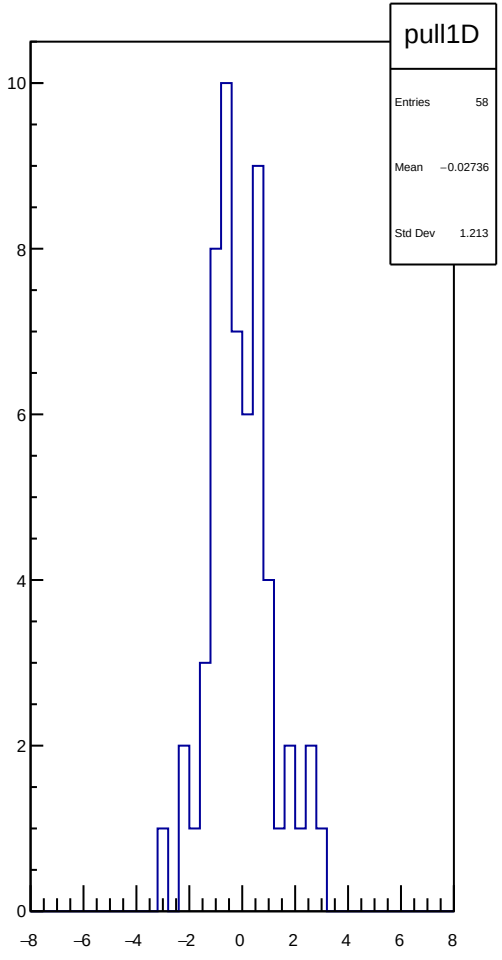

diff_cav4bX_rms vs run
χ² / ndf 571 / 57
p0 19.89 ± 0.01901
21
20.5
20
19.5
19

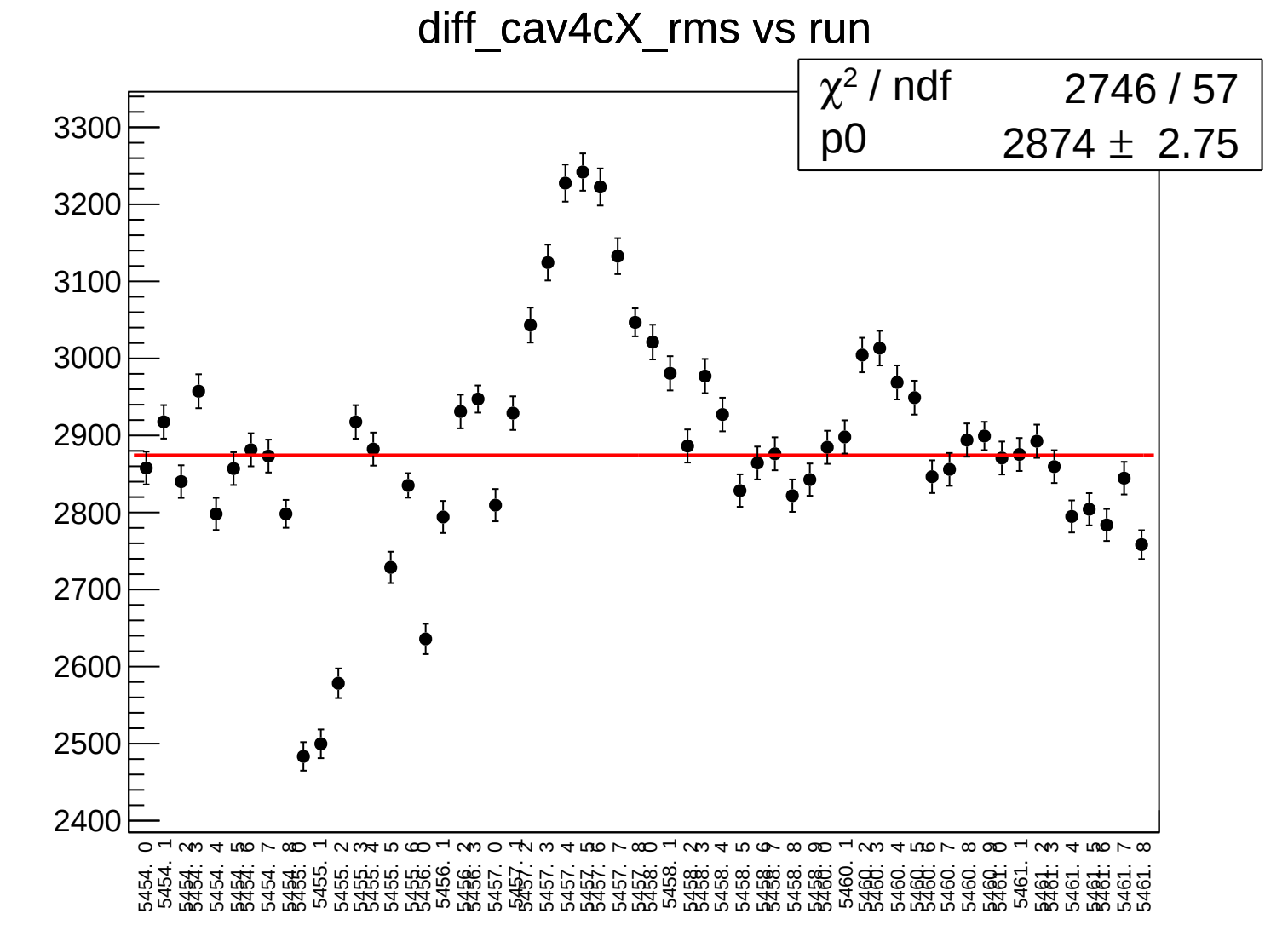

diff_cav4bY_mean vs run
χ² / ndf 67.98 / 57
p0 0.004809 ± 0.01445
pull
Entries 58
Mean −726.9
Std Dev 753.1

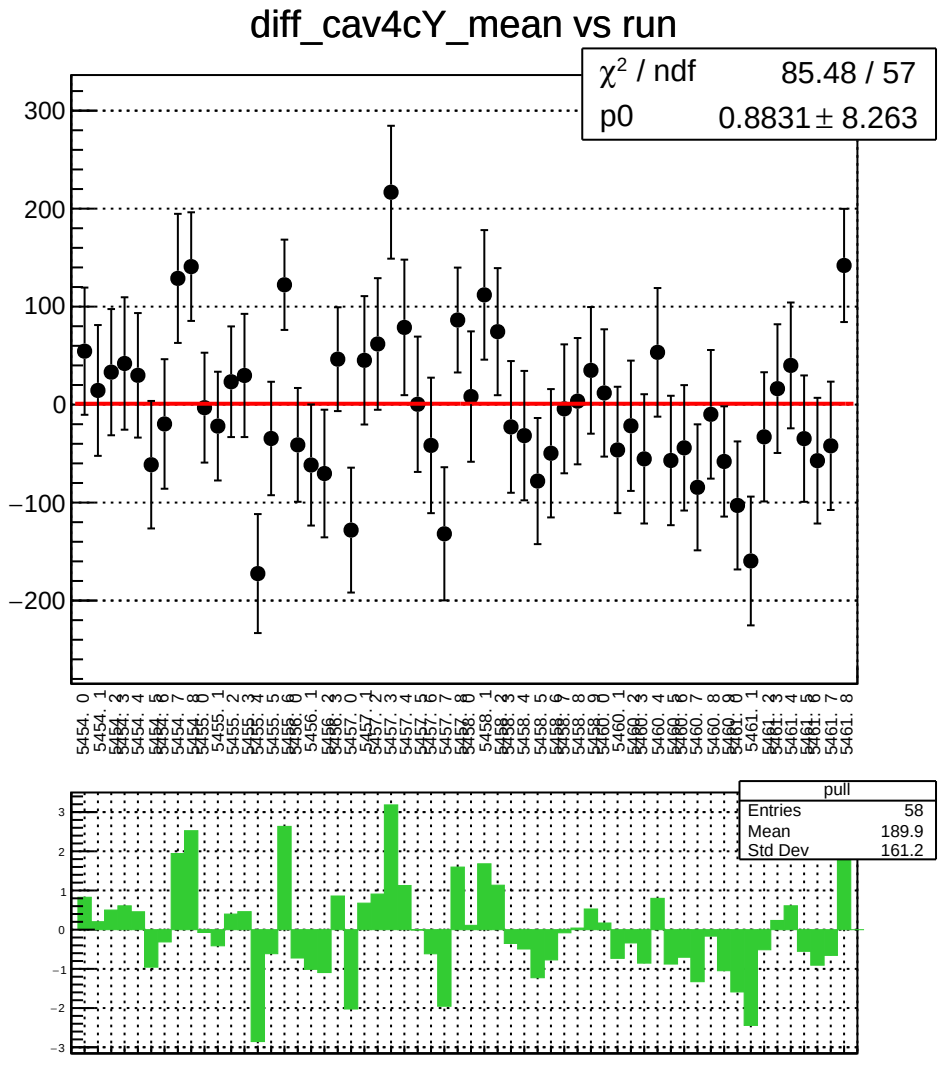

pull1D
Entries 58
Mean −0.005604
Std Dev 1.083

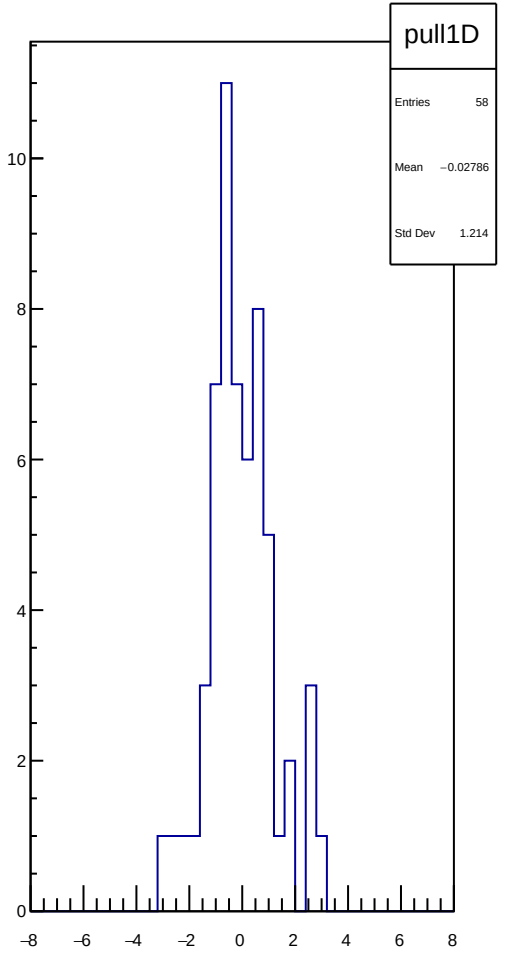

diff_cav4bY_rms vs run
χ² / ndf 423.3 / 57
p0 10.69 ± 0.01022
11.2
11
10.8
10.6
10.4
10.2

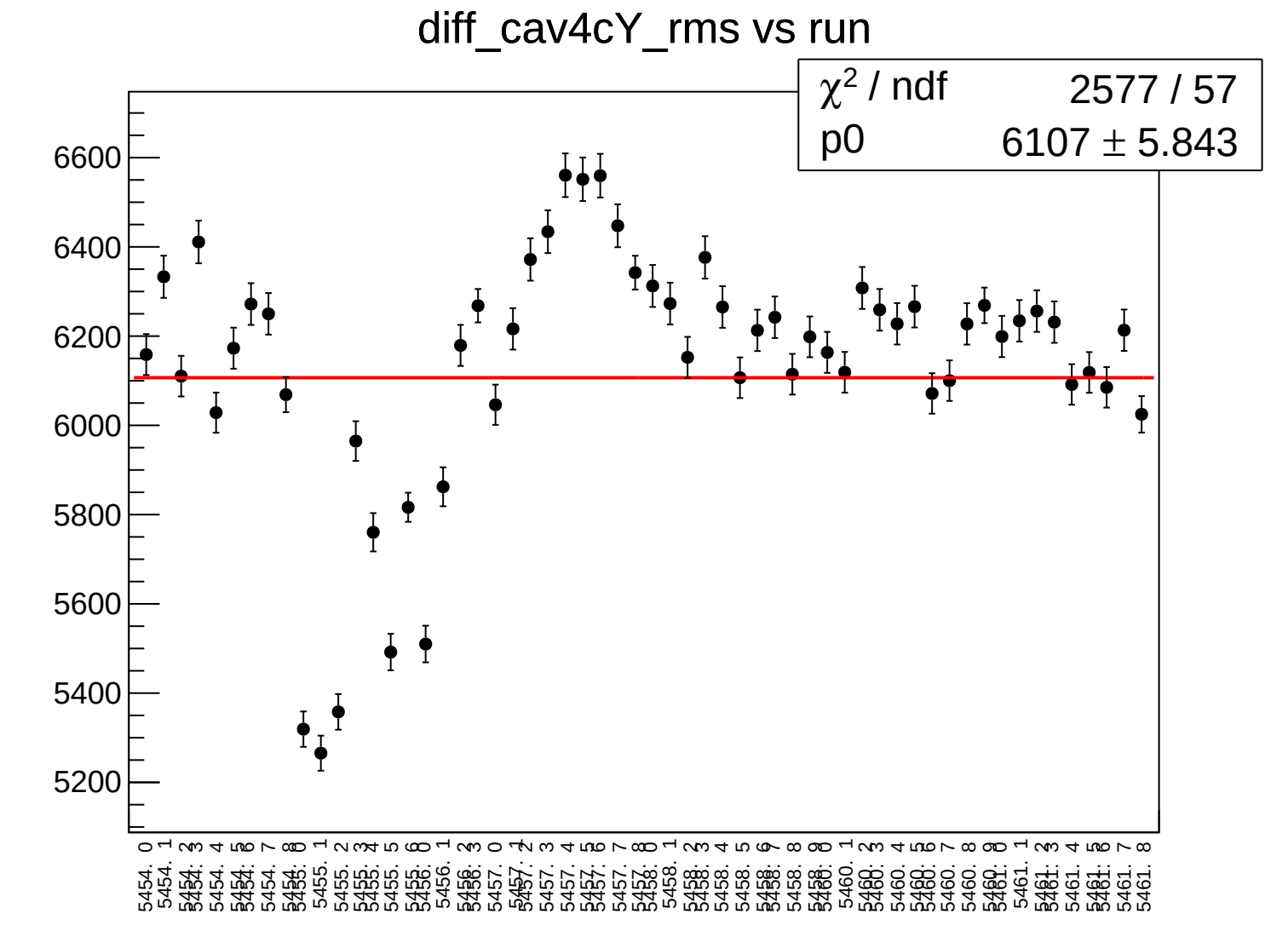

diff_cav4cX_mean vs run
χ² / ndf 85.45 / 57
p0 0.298 ± 3.89
150
100
50
0
−50
−100
pull
Entries 58
Mean 198.2
Std Dev 169.4
3
2
1
0
−1
−2
−3

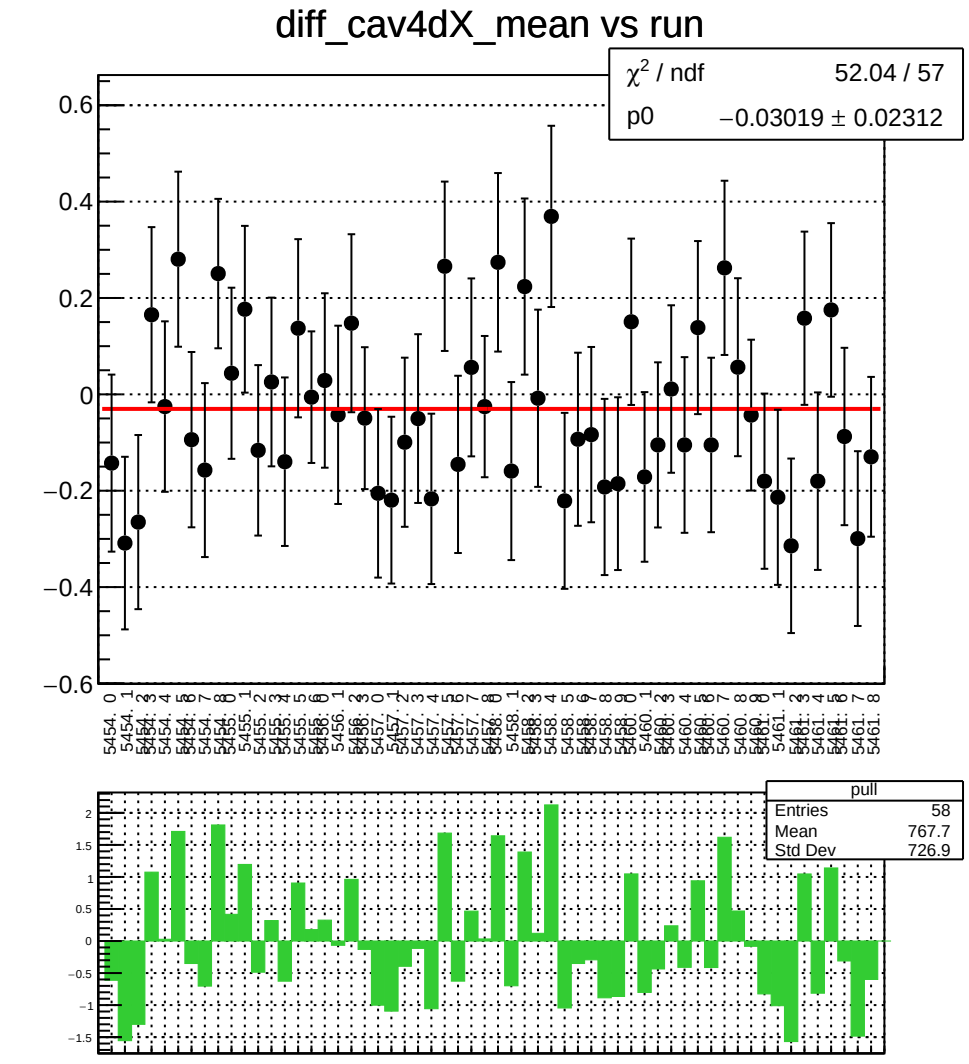

pull1D
Entries 58
Mean −0.02736
Std Dev 1.213
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

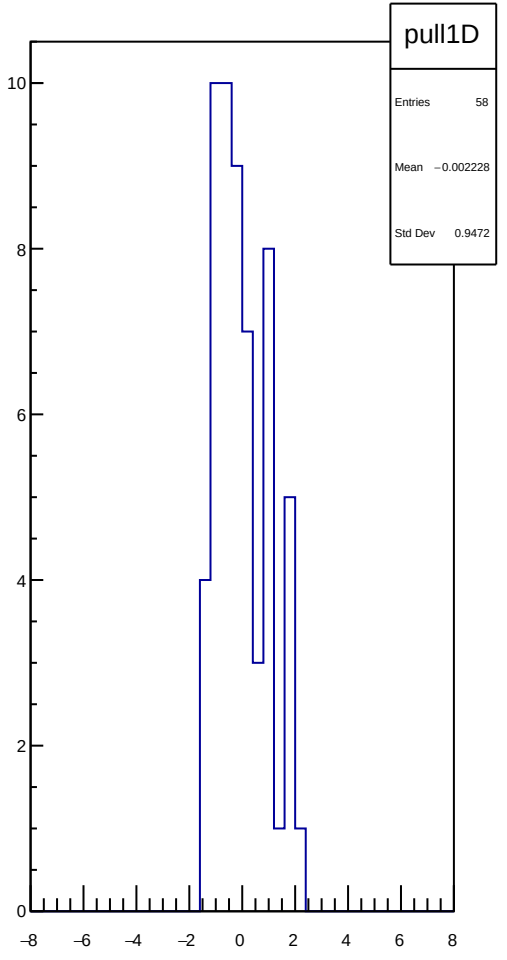

diff_cav4cX_rms vs run
χ² / ndf 2746 / 57
p0 2874 ± 2.75
3300
3200
3100
3000
2900
2800
2700
2600
2500
2400

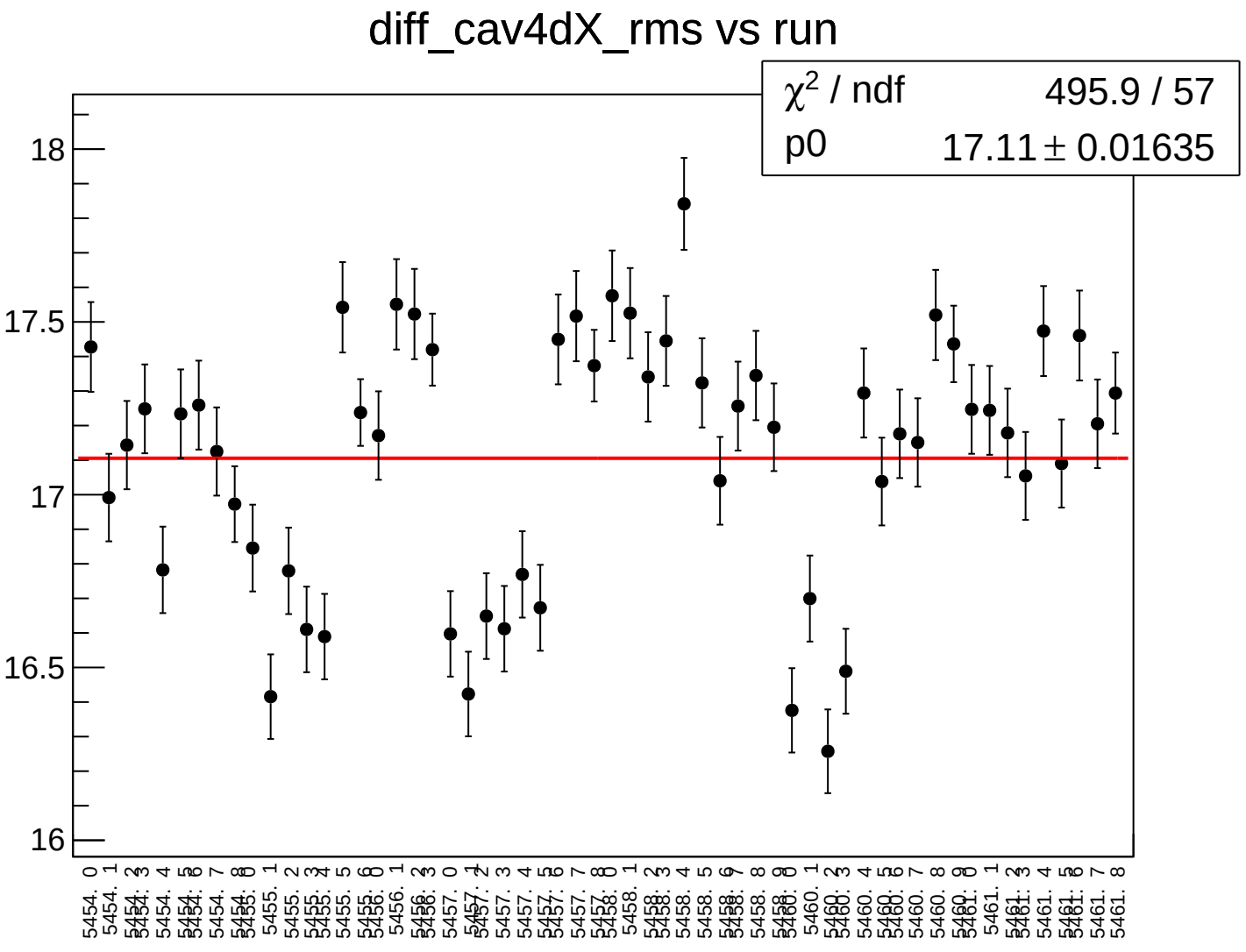

diff_cav4cY_mean vs run
χ² / ndf 85.48 / 57
p0 0.8831 ± 8.263
300
200
100
0
−100
−200
pull
Entries 58
Mean 189.9
Std Dev 161.2
3
2
1
0
−1
−2
−3

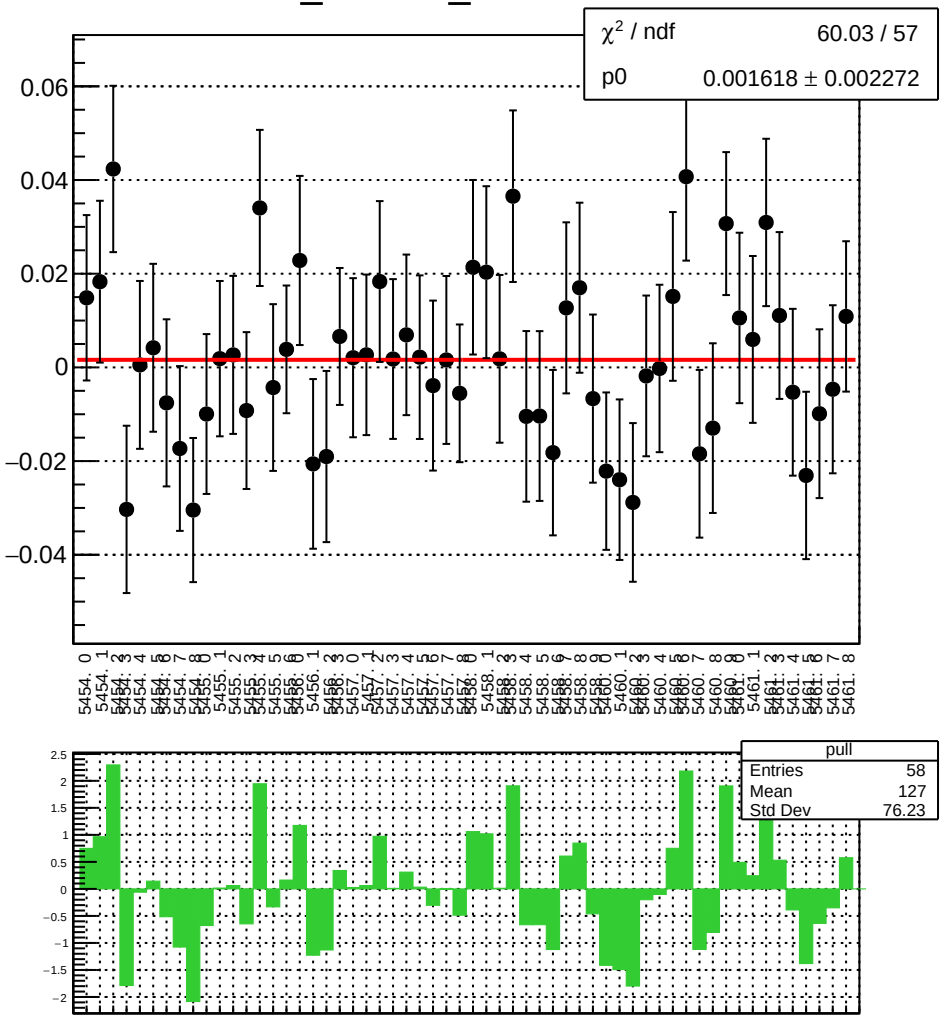

pull1D
Entries 58
Mean −0.02786
Std Dev 1.214
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

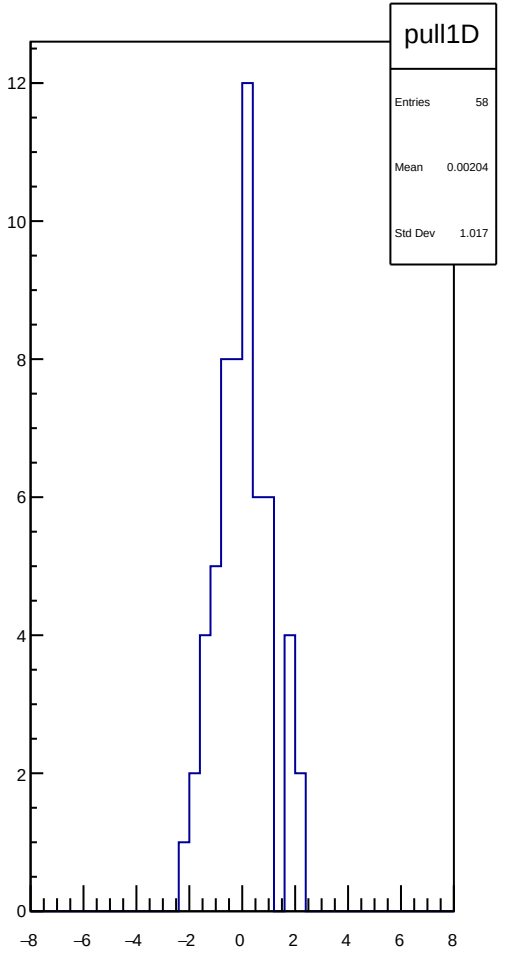

diff_cav4cY_rms vs run
χ² / ndf 2577 / 57
p0 6107 ± 5.843
6600
6400
6200
6000
5800
5600
5400
5200

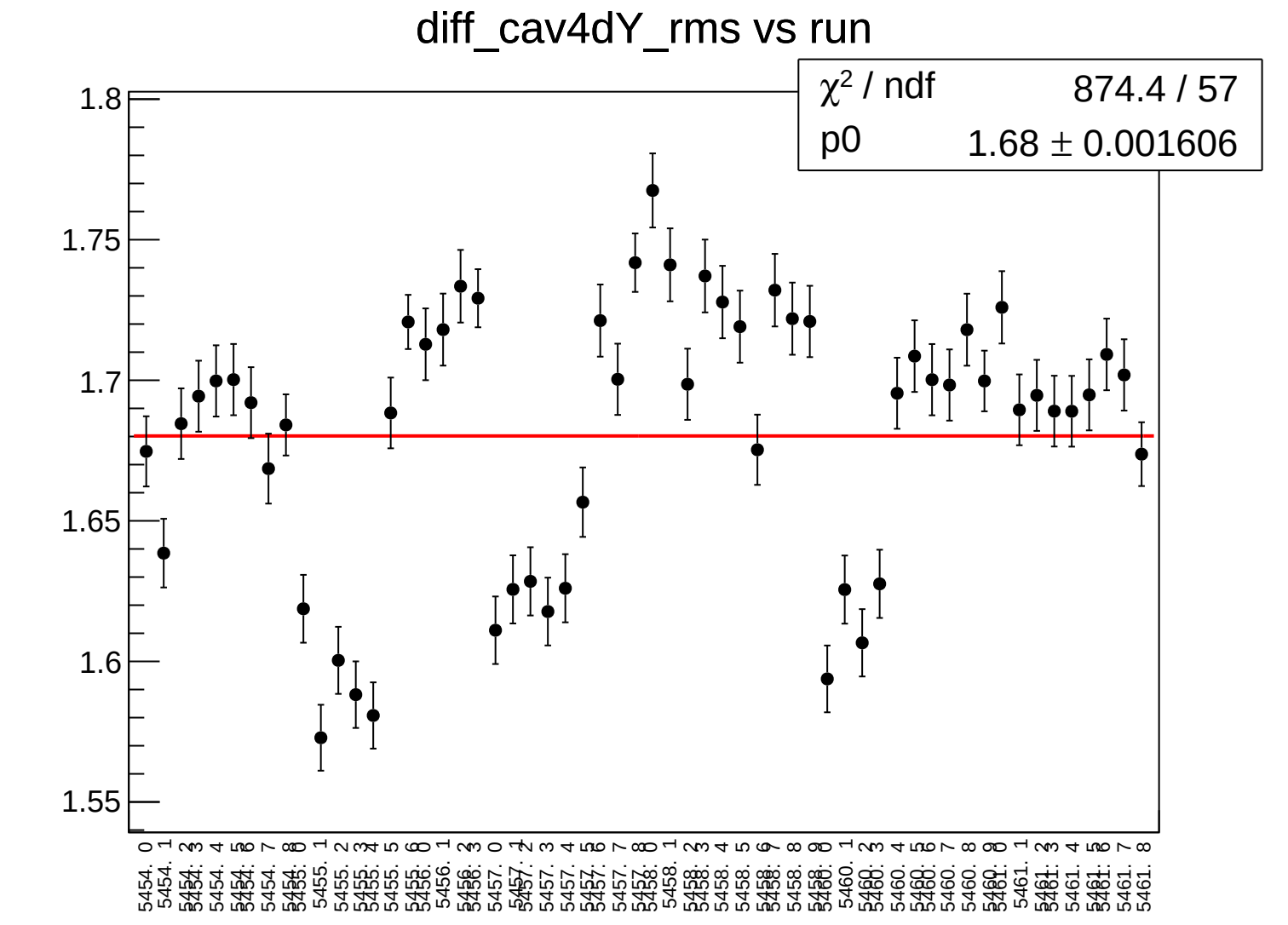

diff_cav4dX_mean vs run
χ² / ndf 52.04 / 57
p0 −0.03019 ± 0.02312
pull
Entries 58
Mean 767.7
Std Dev 726.9

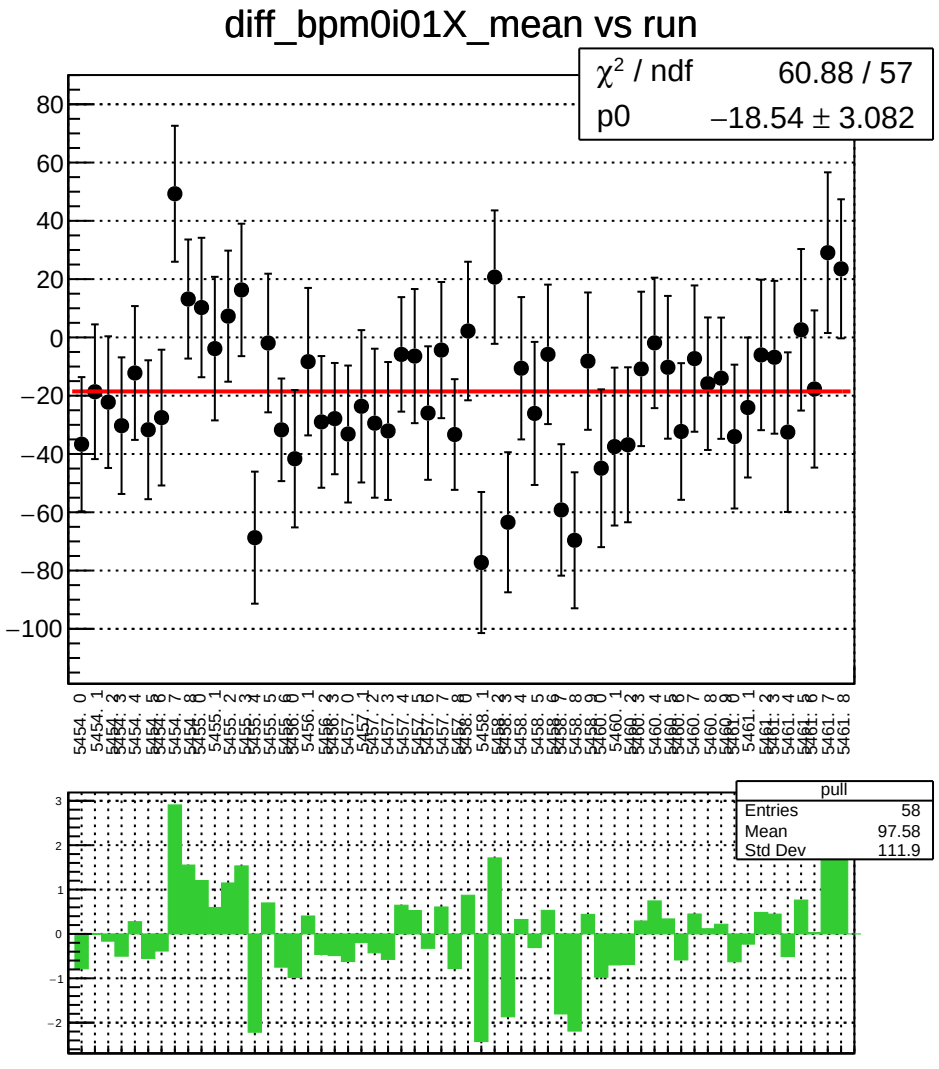

pull1D
Entries 58
Mean −0.002228
Std Dev 0.9472

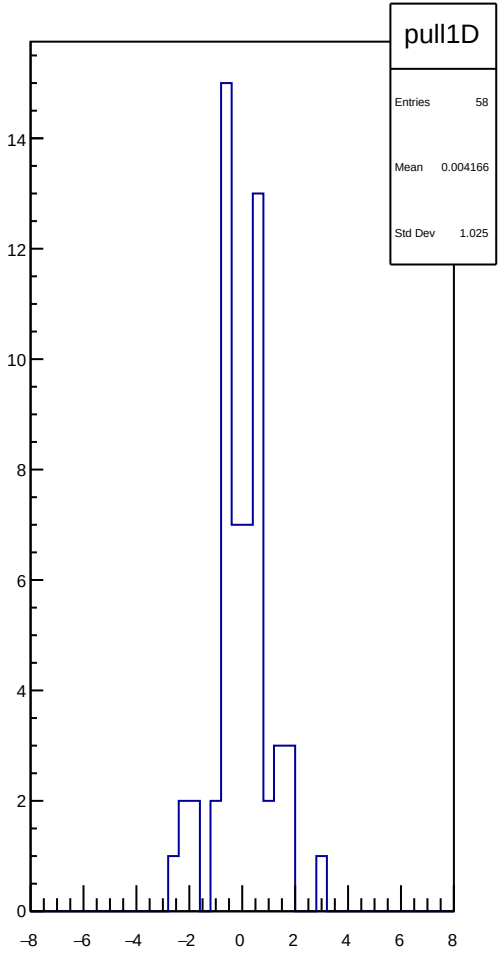

diff_cav4dX_rms vs run
χ² / ndf 495.9 / 57
p0 17.11 ± 0.01635
18
17.5
17
16.5
16

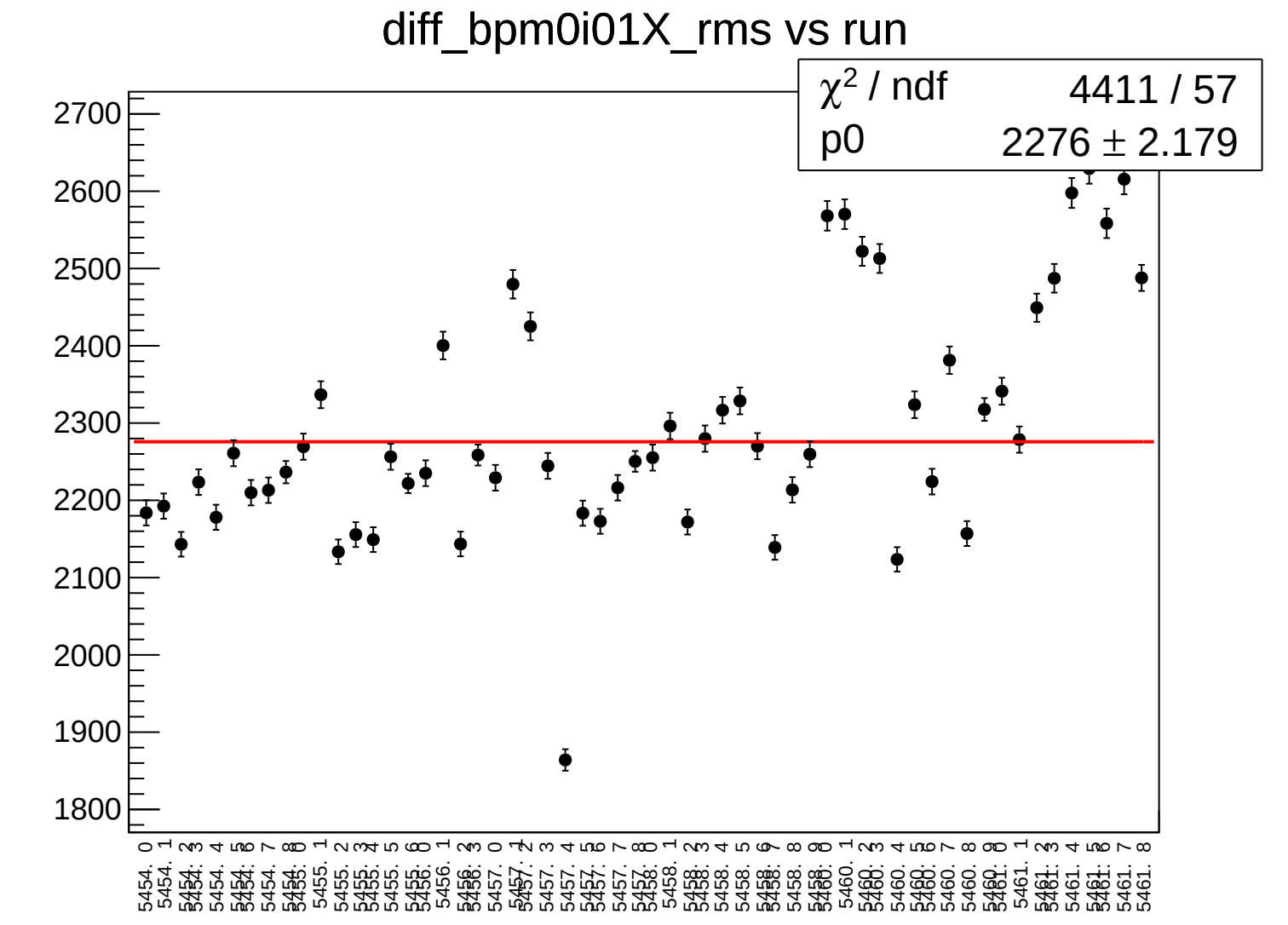

diff_cav4dY_mean vs run
χ² / ndf 60.03 / 57
p0 0.001618 ± 0.002272
pull
Entries 58
Mean 127
Std Dev 76.23

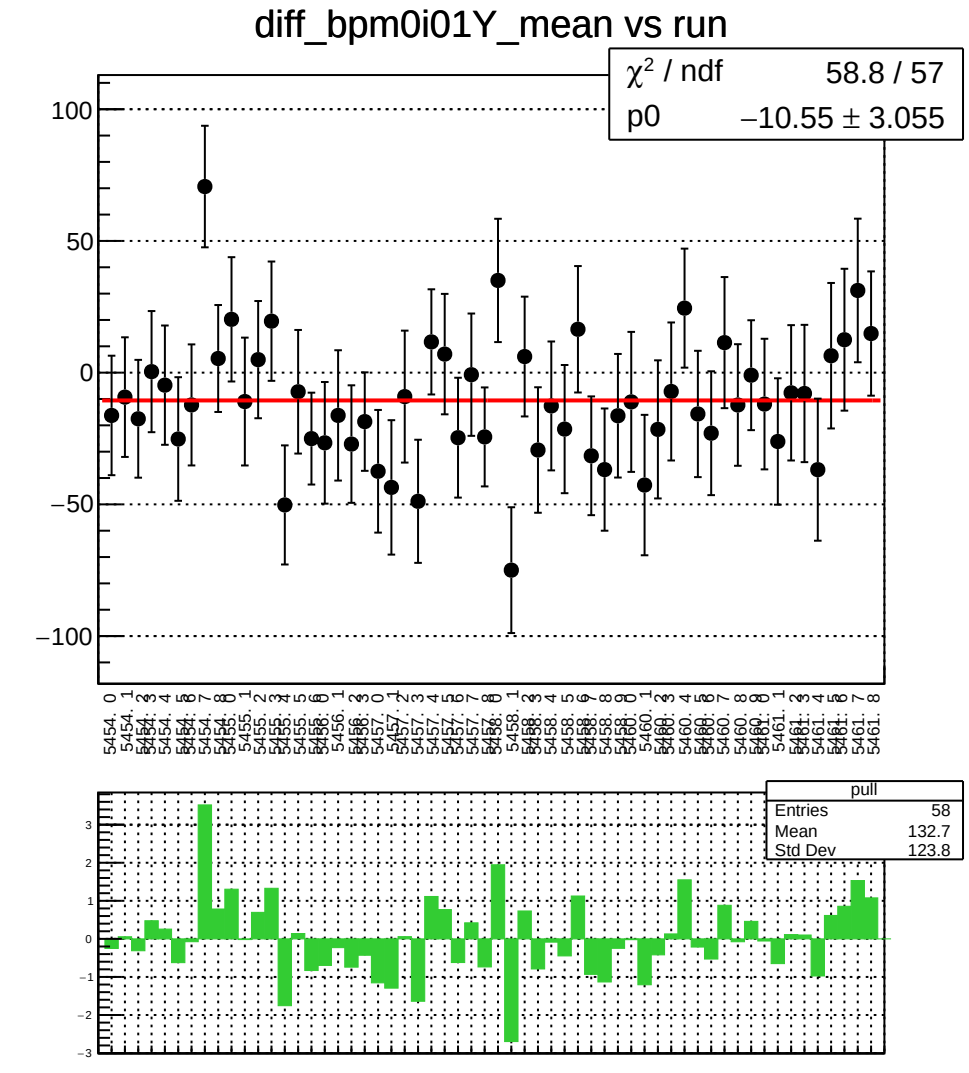

pull1D
Entries 58
Mean 0.00204
Std Dev 1.017

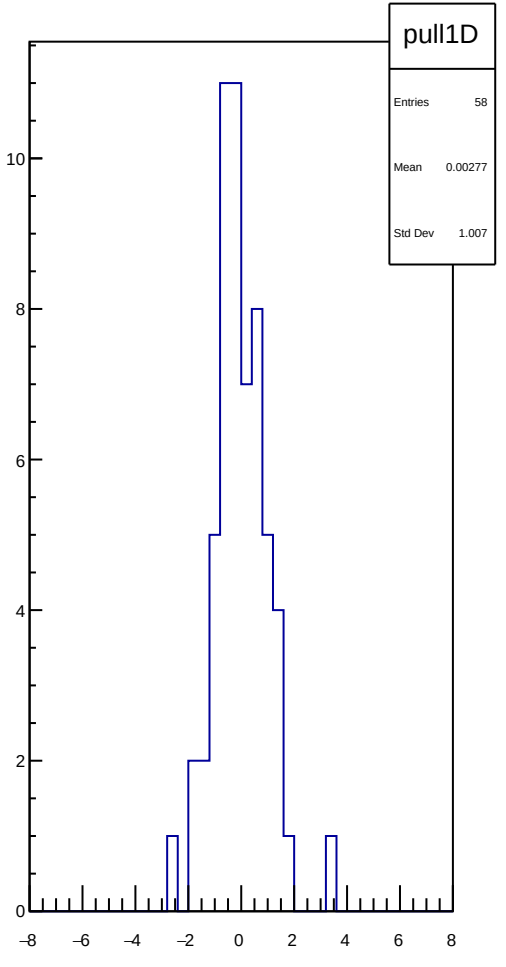

diff_cav4dY_rms vs run
χ² / ndf 874.4 / 57
p0 1.68 ± 0.001606
1.8
1.75
1.7
1.65
1.6
1.55

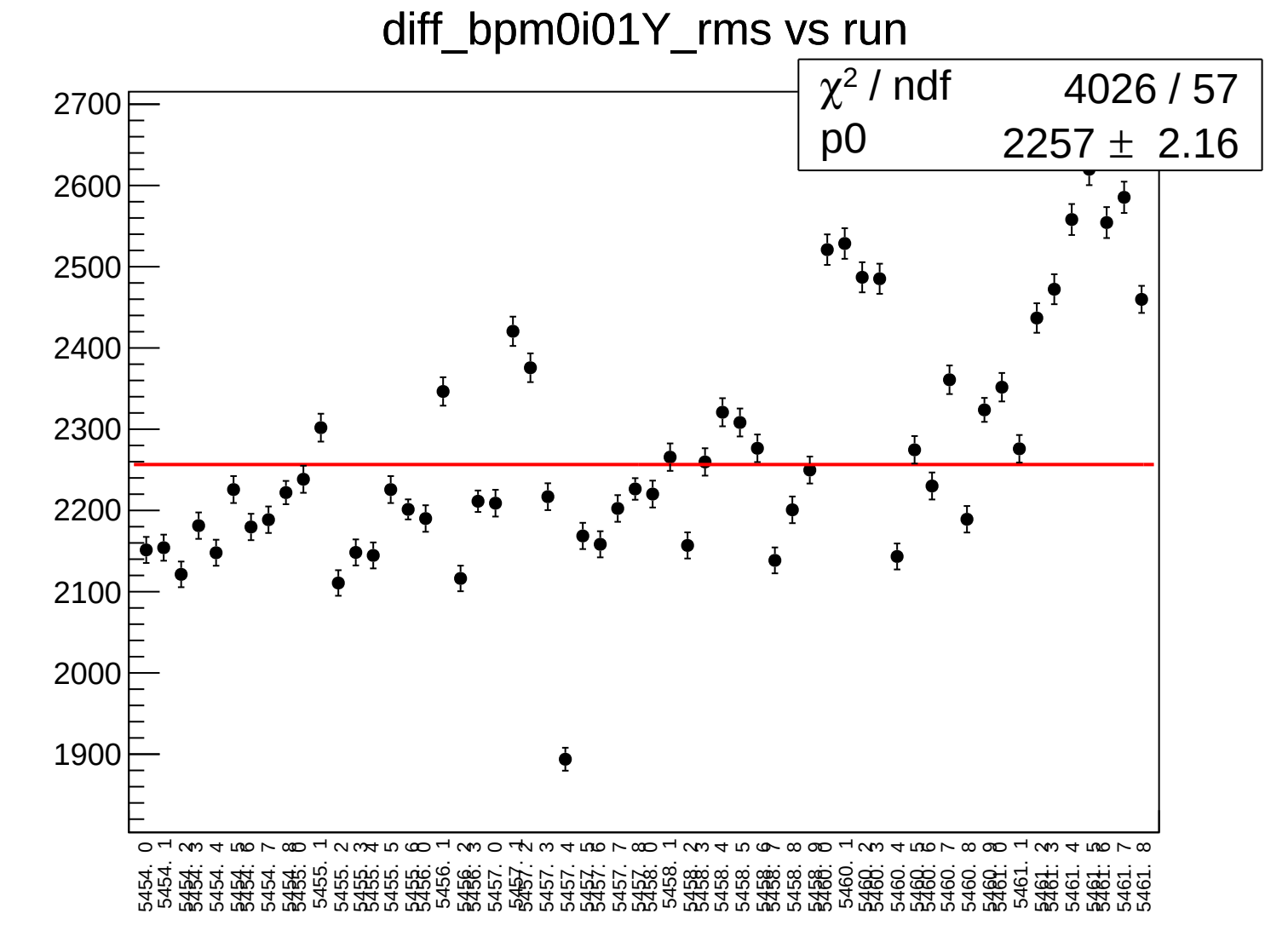

diff_bpm0i01X_mean vs run
χ² / ndf 60.88 / 57
p0 −18.54 ± 3.082
pull
Entries 58
Mean 97.58
Std Dev 111.9

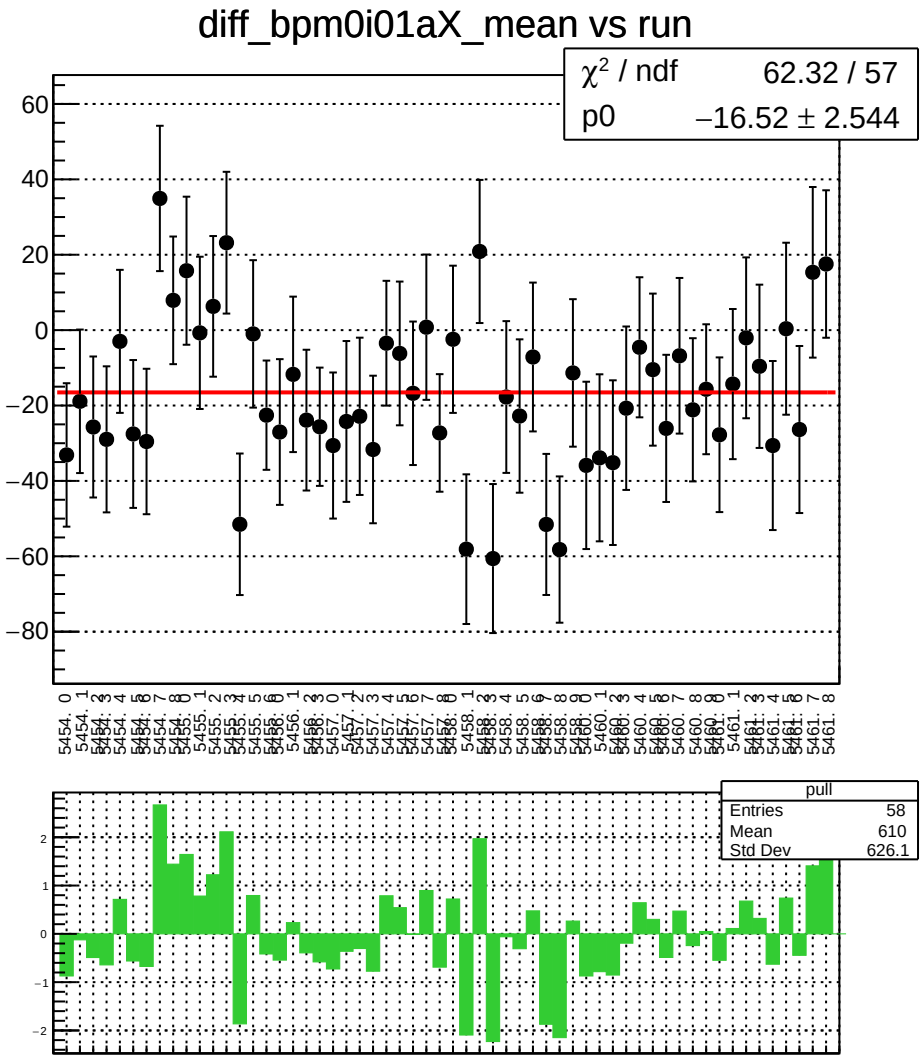

pull1D
Entries 58
Mean 0.004166
Std Dev 1.025

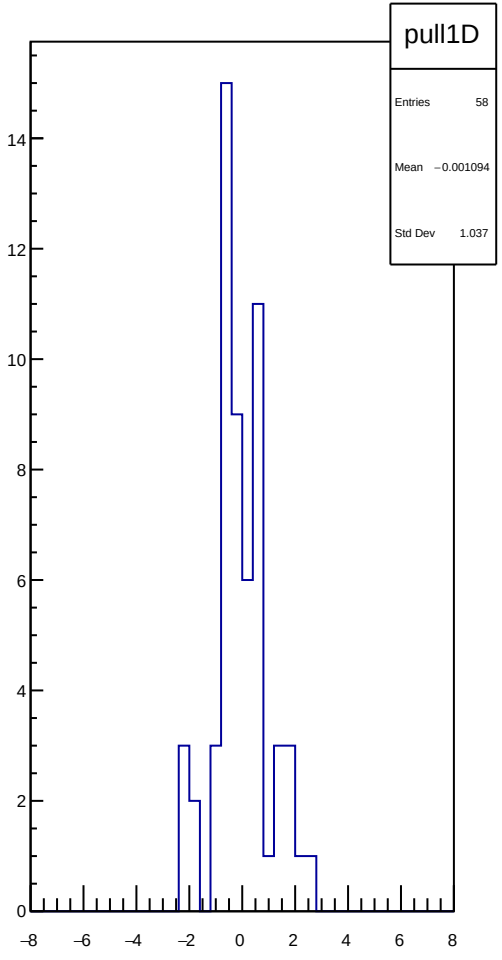

diff_bpm0i01X_rms vs run
χ² / ndf 4411 / 57
p0 2276 ± 2.179
2700
2600
2500
2400
2300
2200
2100
2000
1900
1800
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

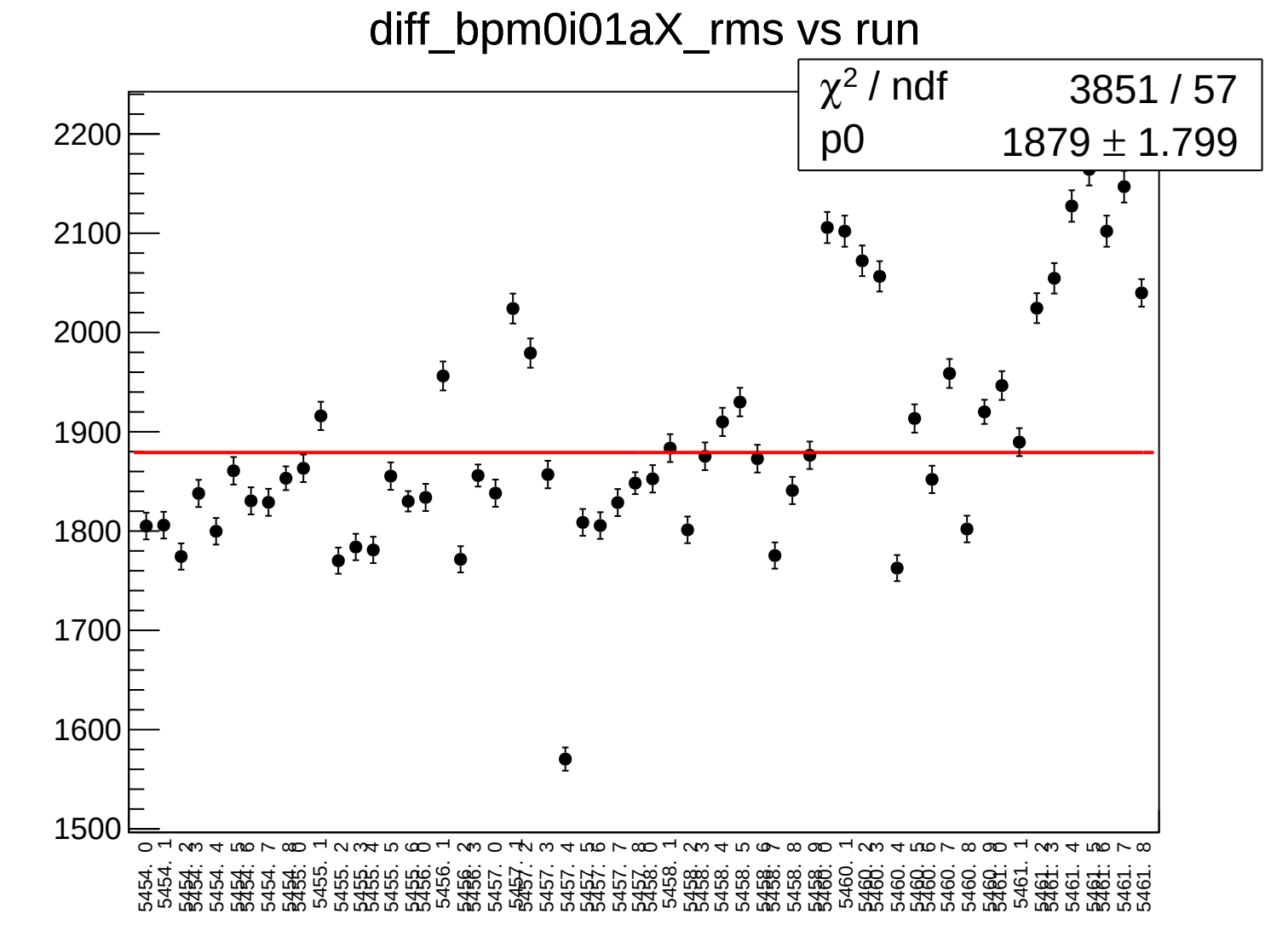

diff_bpm0i01Y_mean vs run
χ² / ndf 58.8 / 57
p0 −10.55 ± 3.055
100
50
0
−50
−100
pull
Entries 58
Mean 132.7
Std Dev 123.8
3
2
1
0
−1
−2
−3

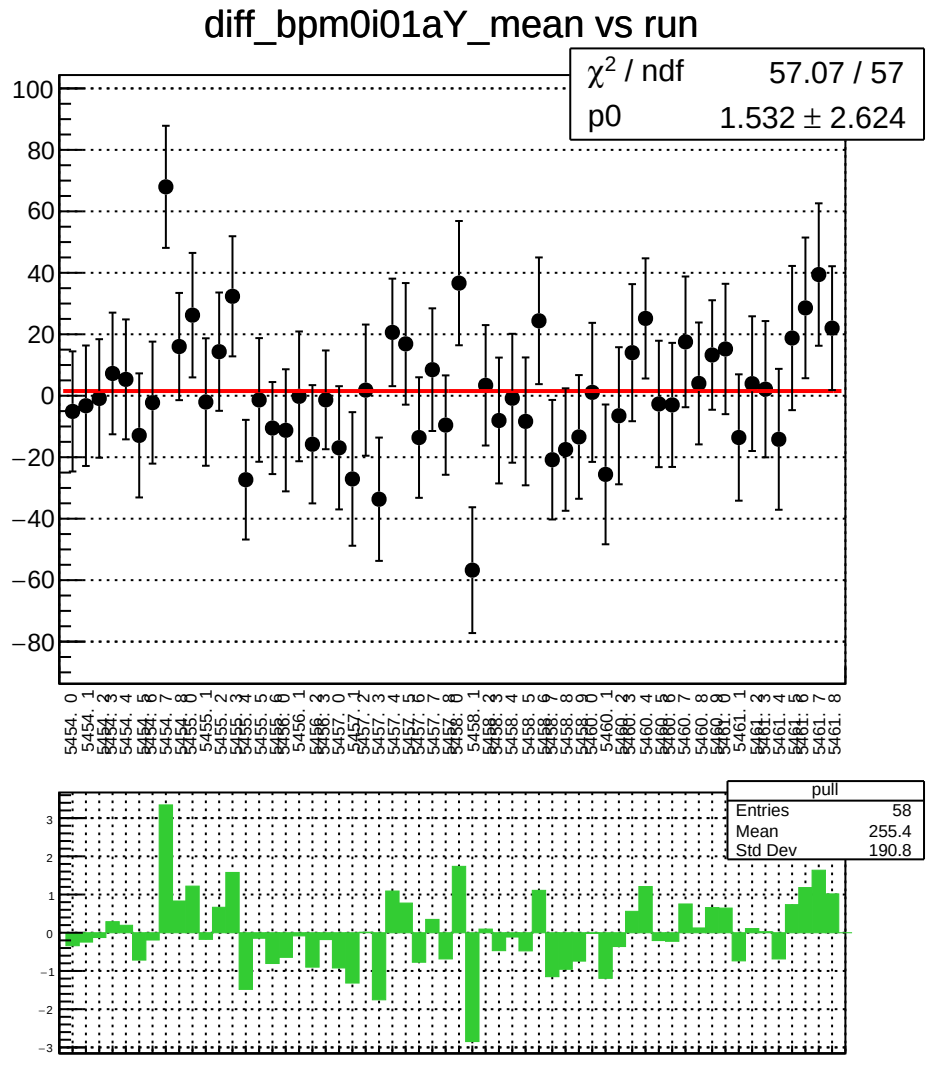

pull1D
Entries 58
Mean 0.00277
Std Dev 1.007
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

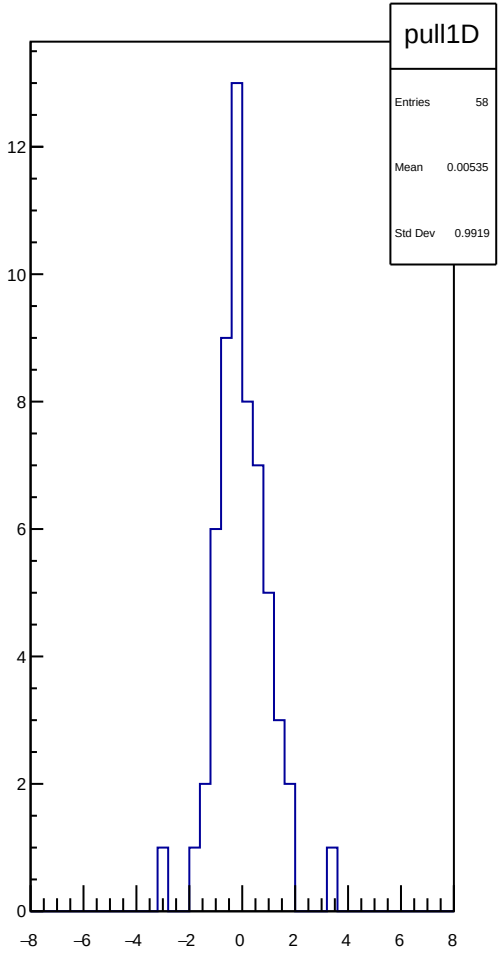

diff_bpm0i01Y_rms vs run
χ² / ndf 4026 / 57
p0 2257 ± 2.16
2700
2600
2500
2400
2300
2200
2100
2000
1900
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

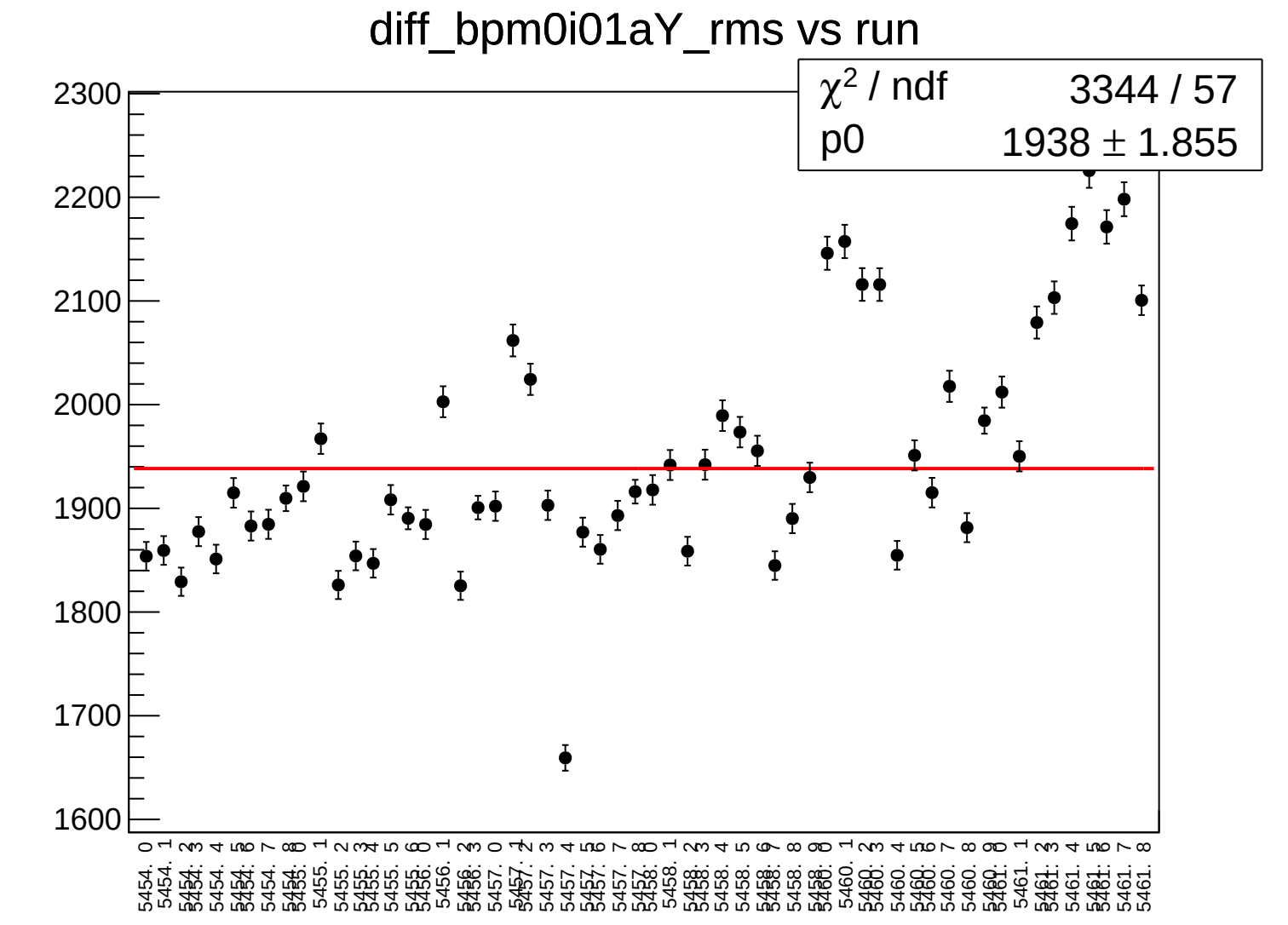

diff_bpm0i01aX_mean vs run
χ² / ndf 62.32 / 57
p0 −16.52 ± 2.544
pull
Entries 58
Mean 610
Std Dev 626.1

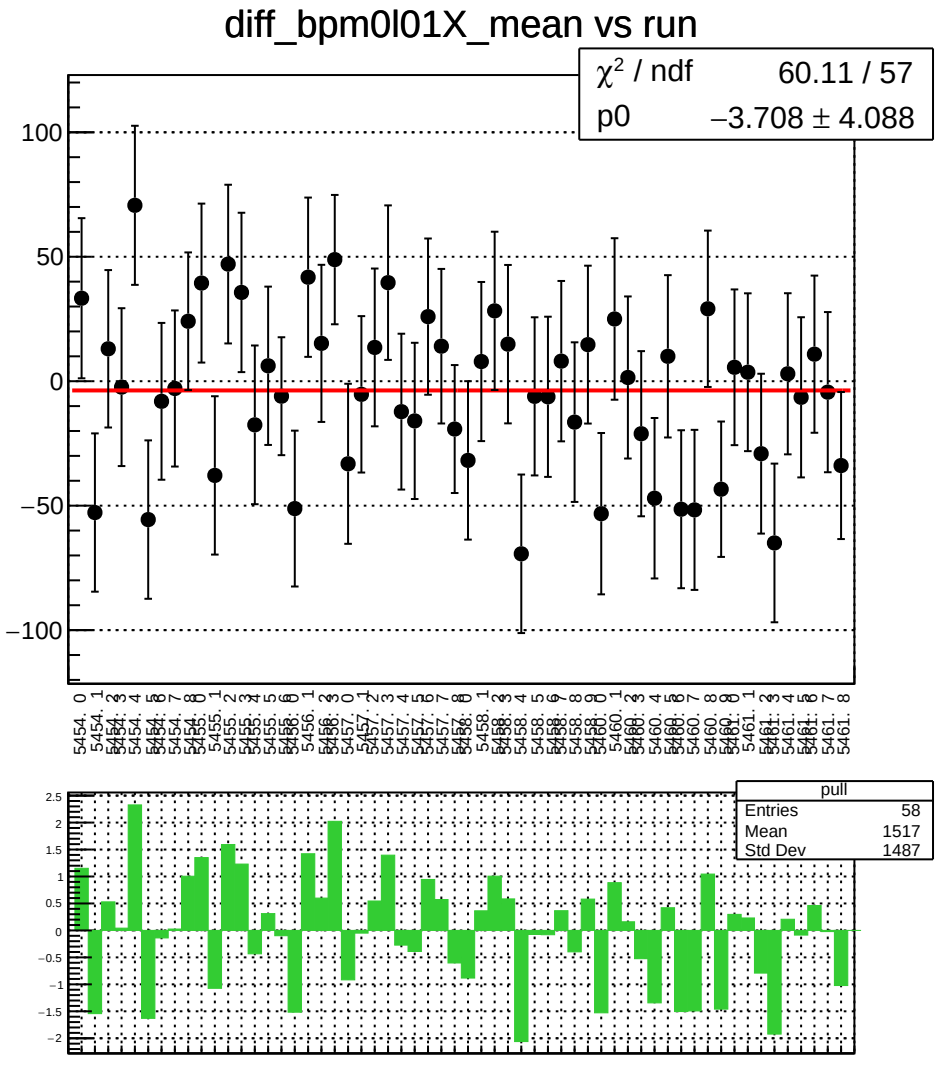

pull1D
Entries 58
Mean −0.001094
Std Dev 1.037

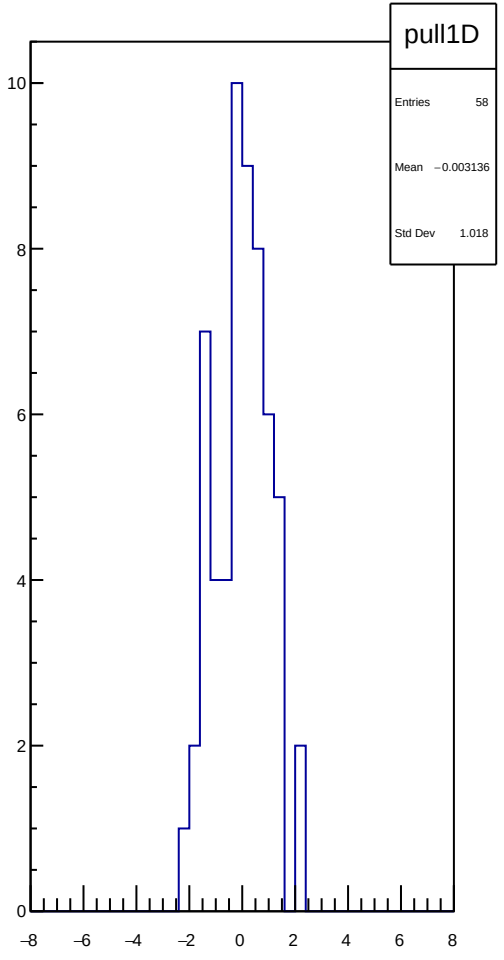

diff_bpm0i01aX_rms vs run
χ² / ndf 3851 / 57
p0 1879 ± 1.799
2200
2100
2000
1900
1800
1700
1600
1500

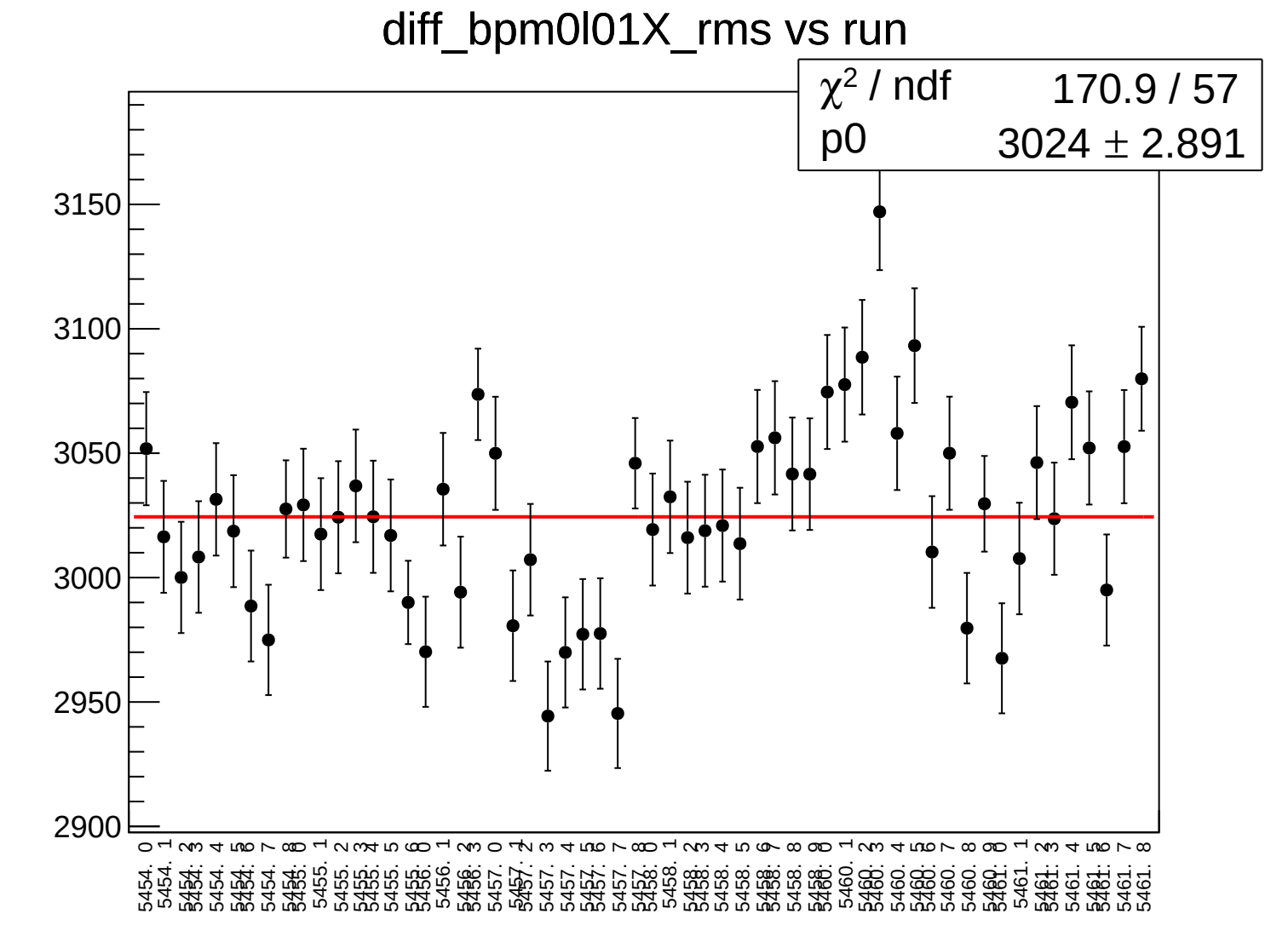

diff_bpm0i01aY_mean vs run
χ² / ndf 57.07 / 57
p0 1.532 ± 2.624
pull
Entries 58
Mean 255.4
Std Dev 190.8

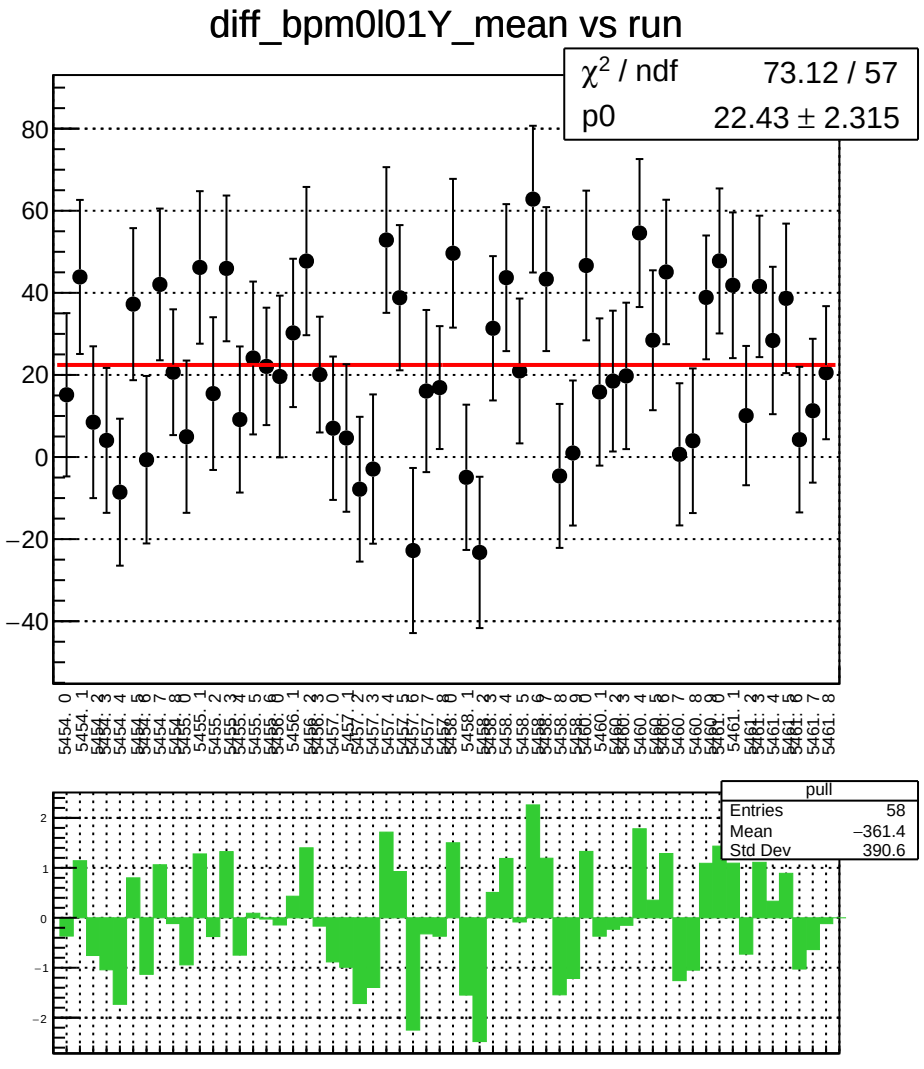

pull1D
Entries 58
Mean 0.00535
Std Dev 0.9919

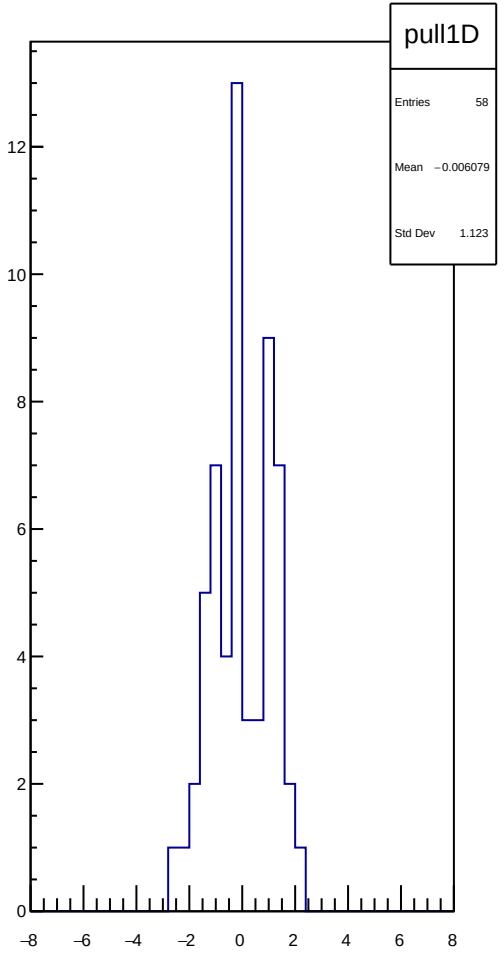

diff_bpm0i01aY_rms vs run
χ² / ndf 3344 / 57
p0 1938 ± 1.855
2300
2200
2100
2000
1900
1800
1700
1600

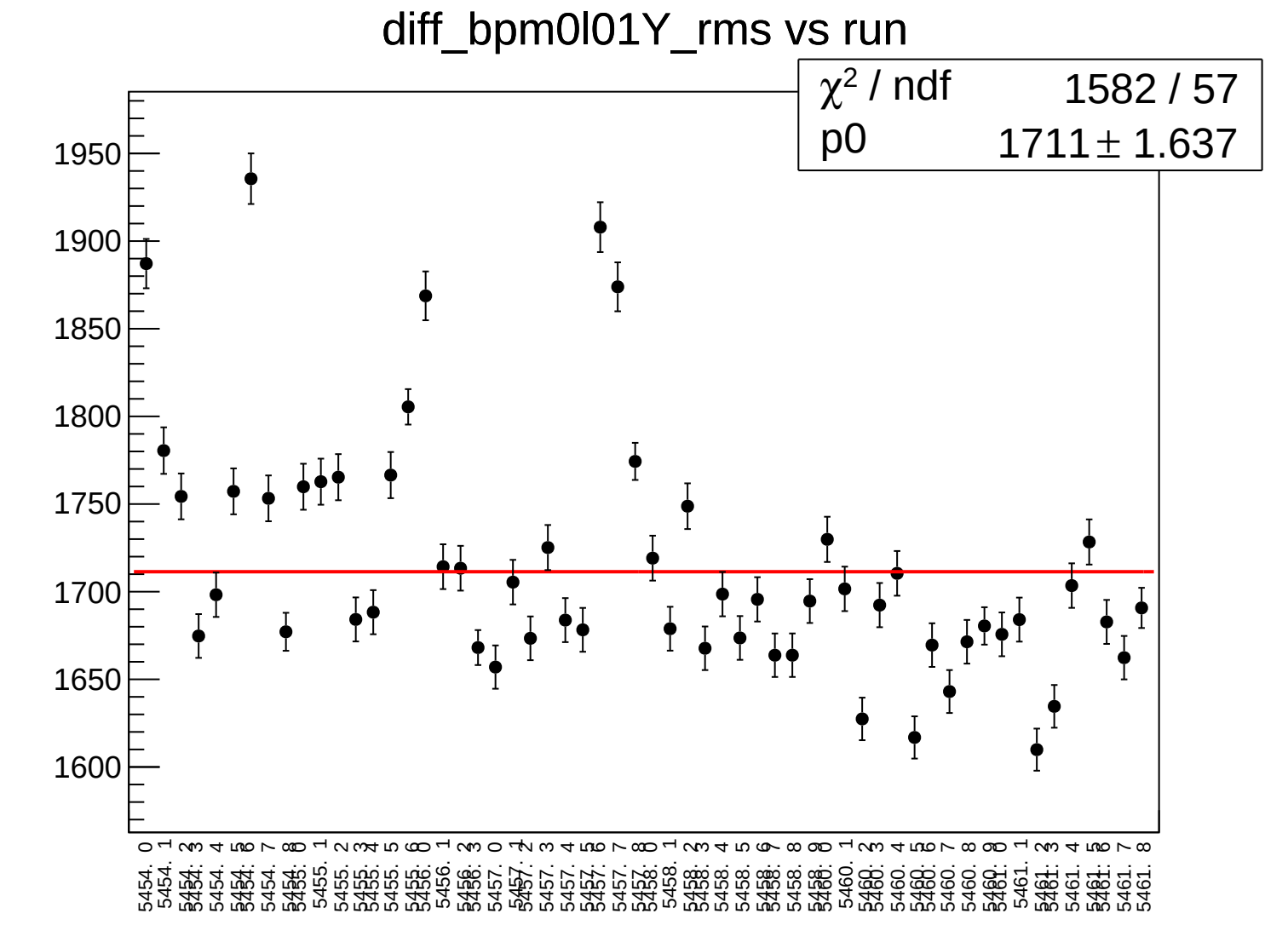

diff_bpm0l01X_mean vs run
χ² / ndf 60.11 / 57
p0 −3.708 ± 4.088
100
50
0
−50
−100
pull
Entries 58
Mean 1517
Std Dev 1487
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

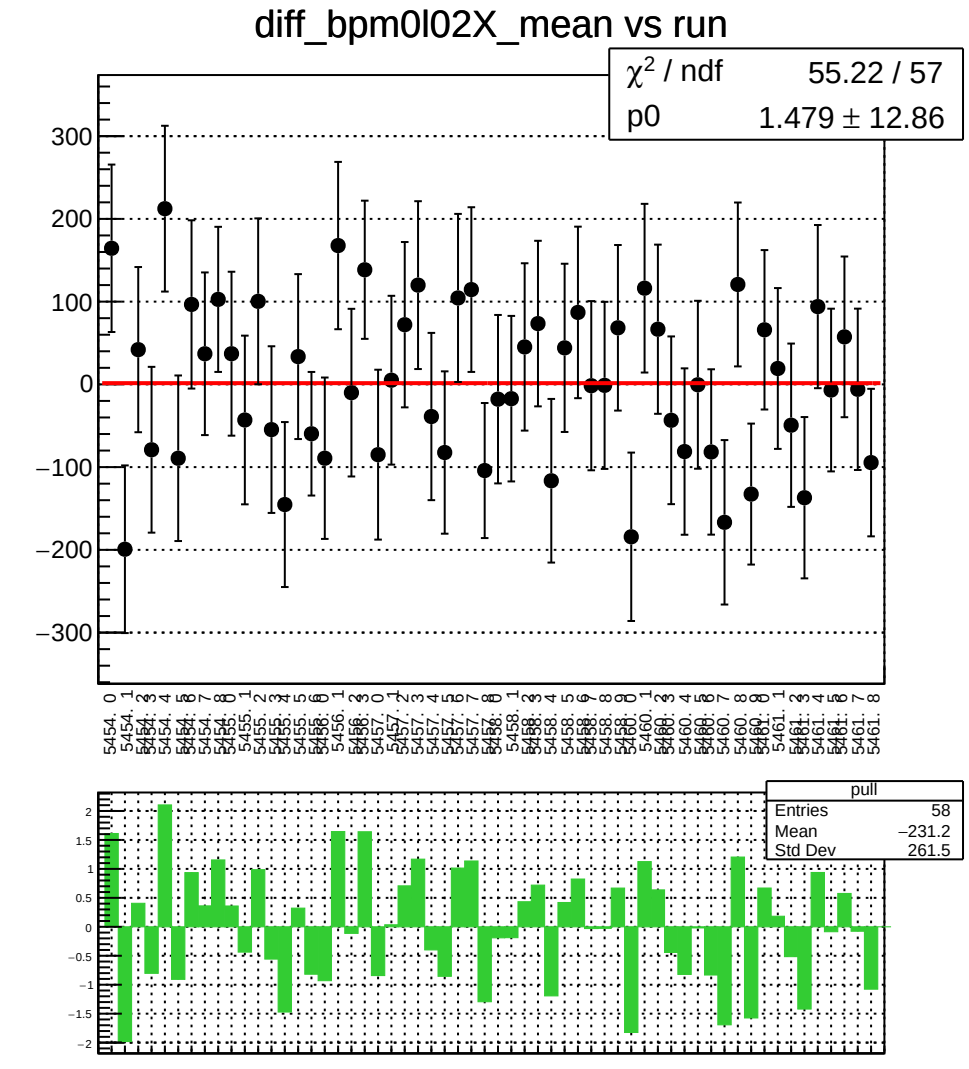

pull1D
Entries 58
Mean −0.003136
Std Dev 1.018
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

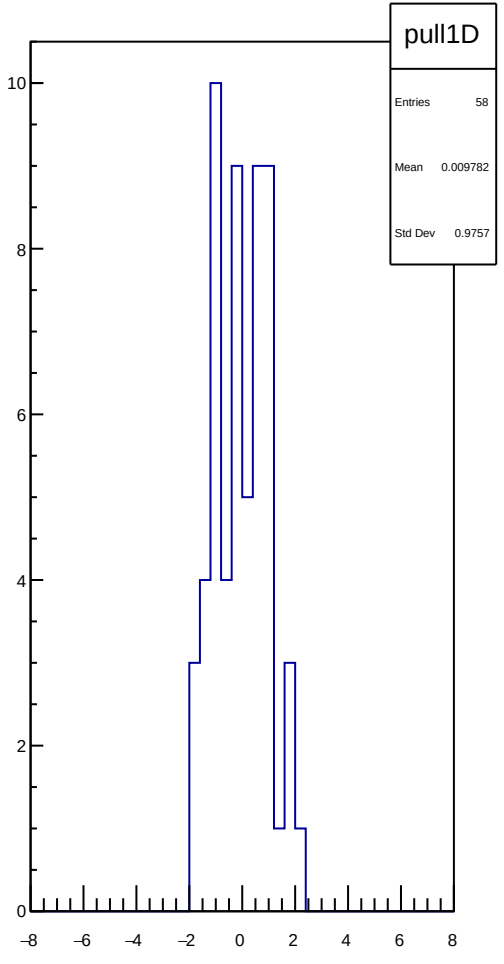

diff_bpm0l01X_rms vs run
χ² / ndf 170.9 / 57
p0 3024 ± 2.891
3150
3100
3050
3000
2950
2900

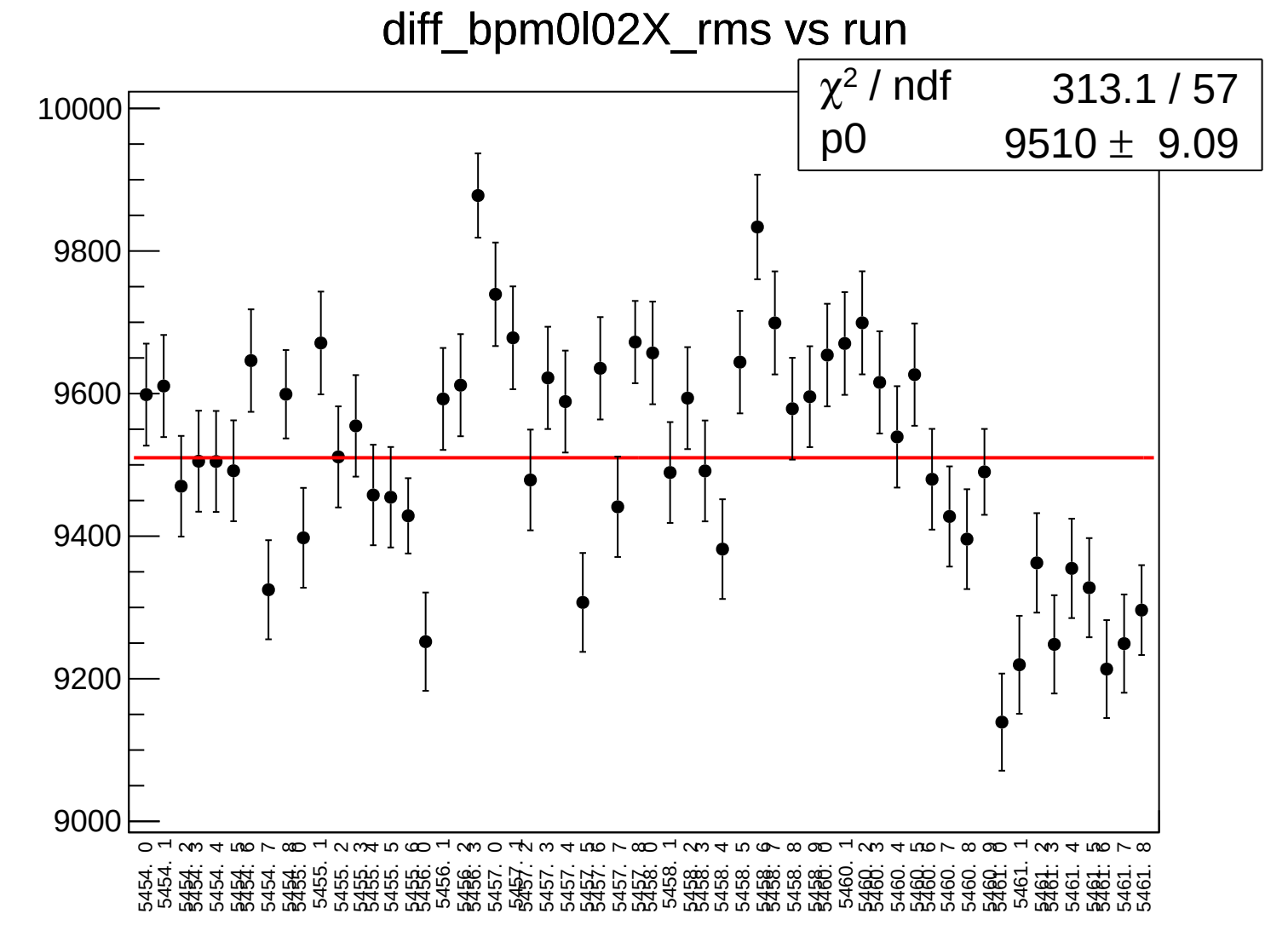

diff_bpm0l01Y_mean vs run
χ² / ndf 73.12 / 57
p0 22.43 ± 2.315
pull
Entries 58
Mean −361.4
Std Dev 390.6

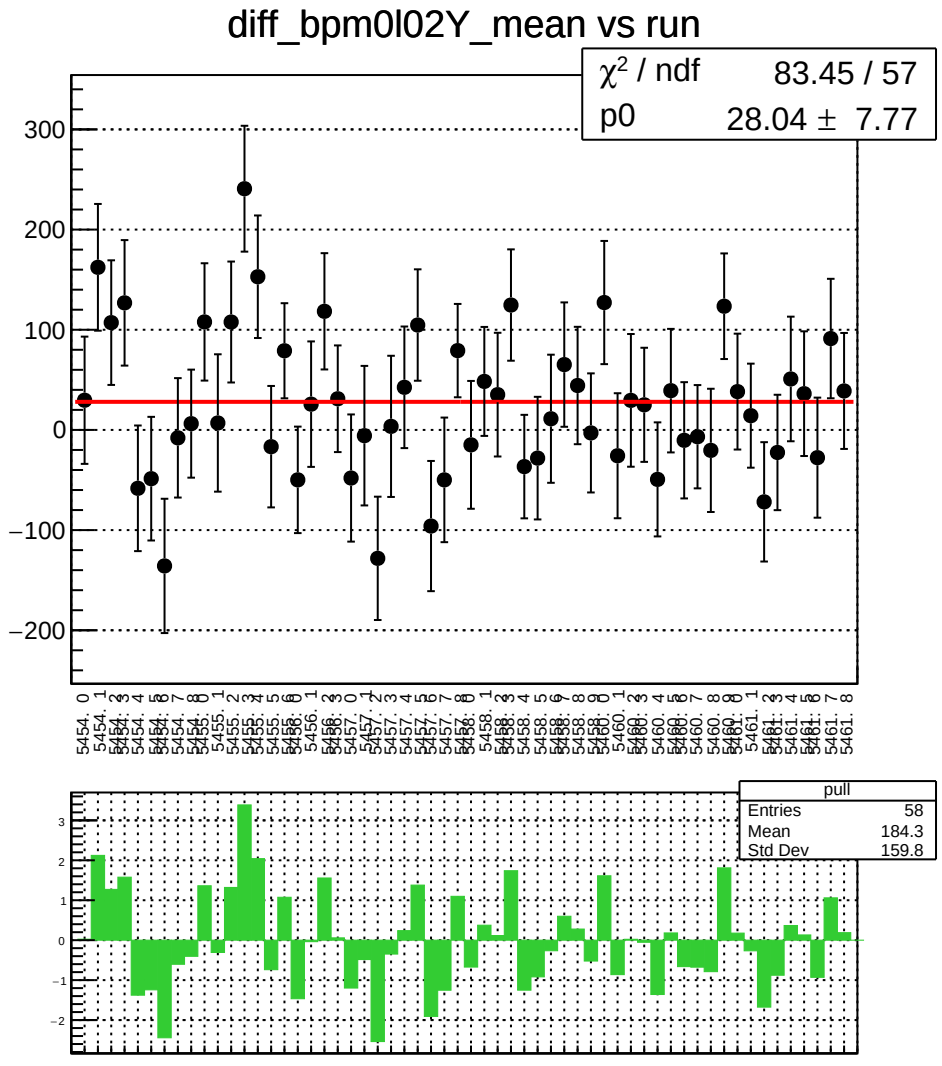

pull1D
Entries 58
Mean −0.006079
Std Dev 1.123

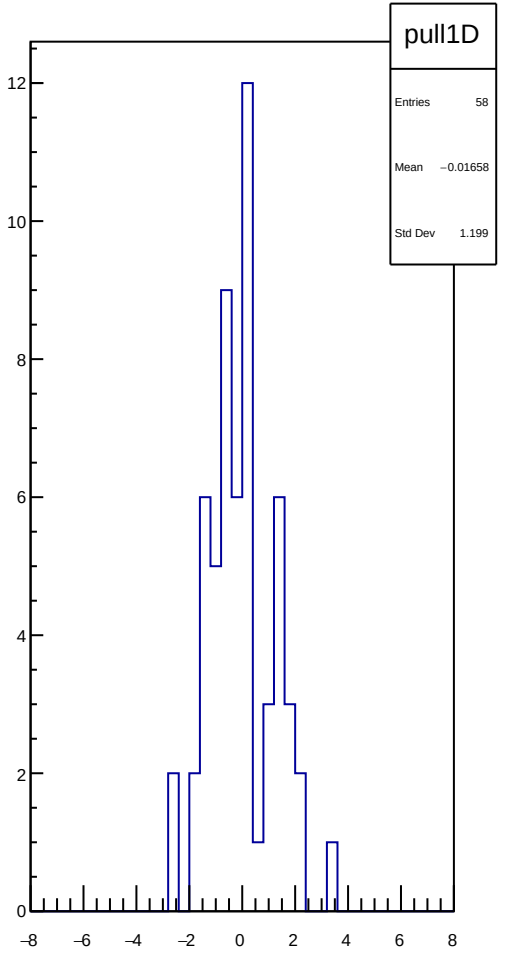

diff_bpm0l01Y_rms vs run
χ² / ndf 1582 / 57
p0 1711 ± 1.637
1950
1900
1850
1800
1750
1700
1650
1600

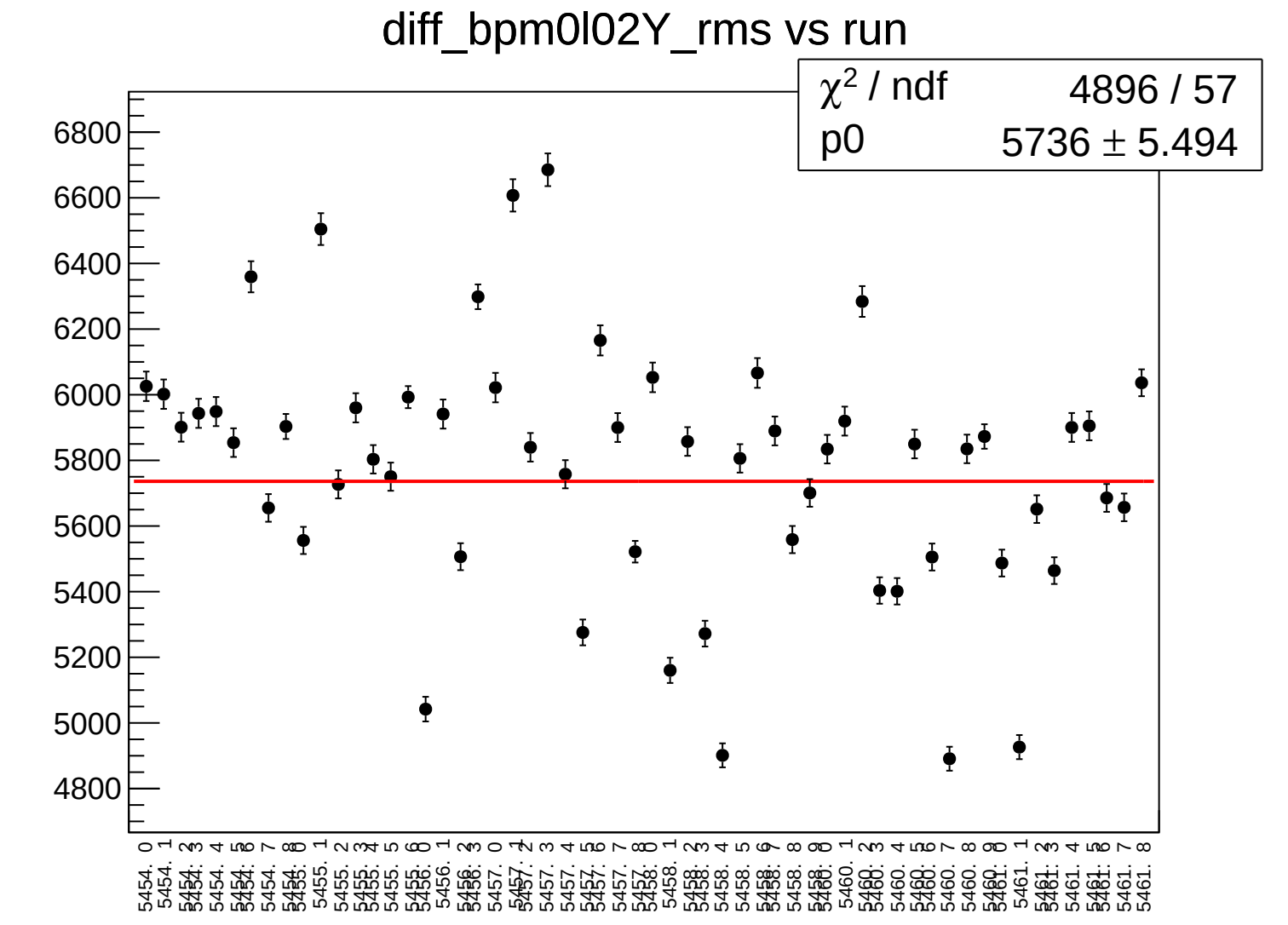

diff_bpm0l02X_mean vs run
χ² / ndf 55.22 / 57
p0 1.479 ± 12.86
pull
Entries 58
Mean −231.2
Std Dev 261.5

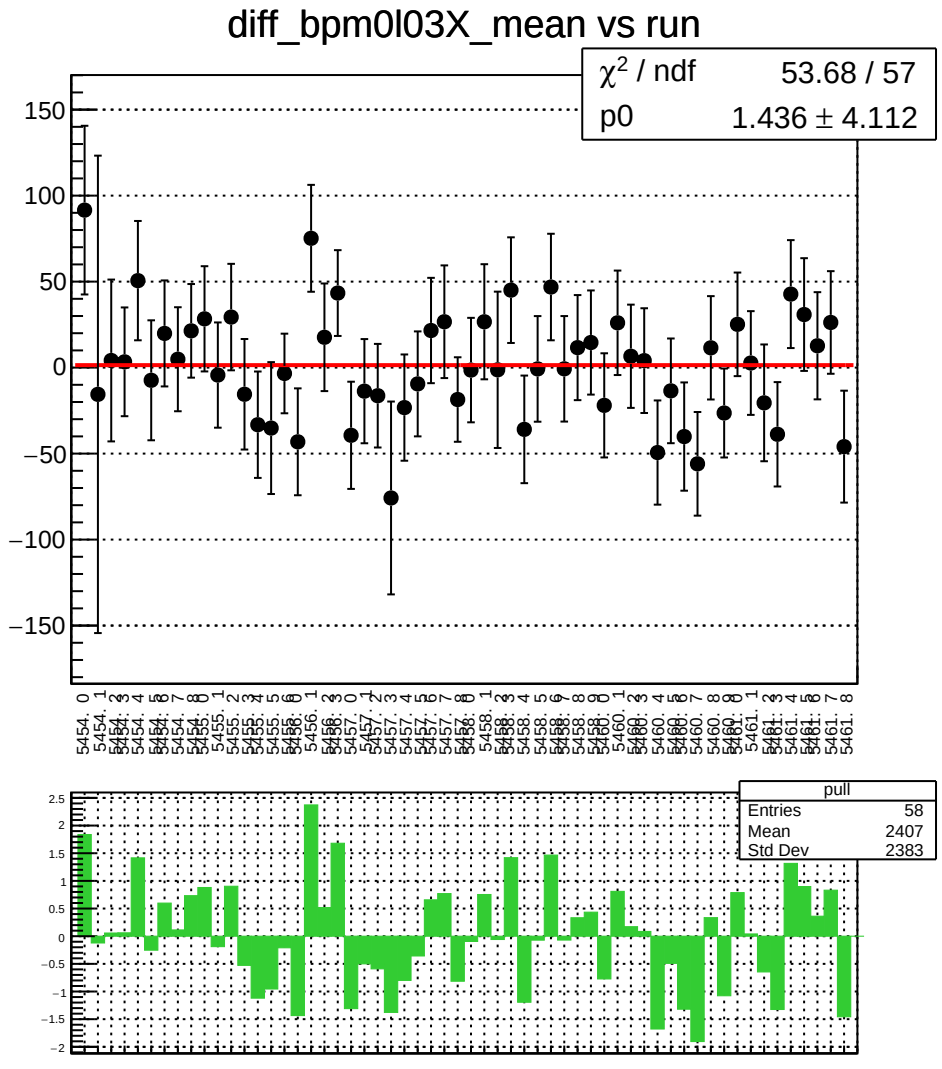

pull1D
Entries 58
Mean 0.009782
Std Dev 0.9757

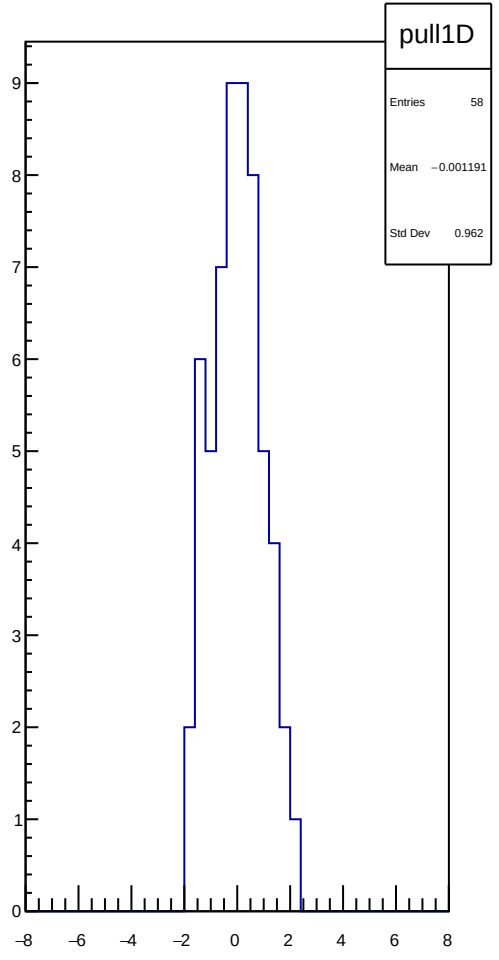

diff_bpm0l02X_rms vs run
χ² / ndf 313.1 / 57
p0 9510 ± 9.09
10000
9800
9600
9400
9200
9000

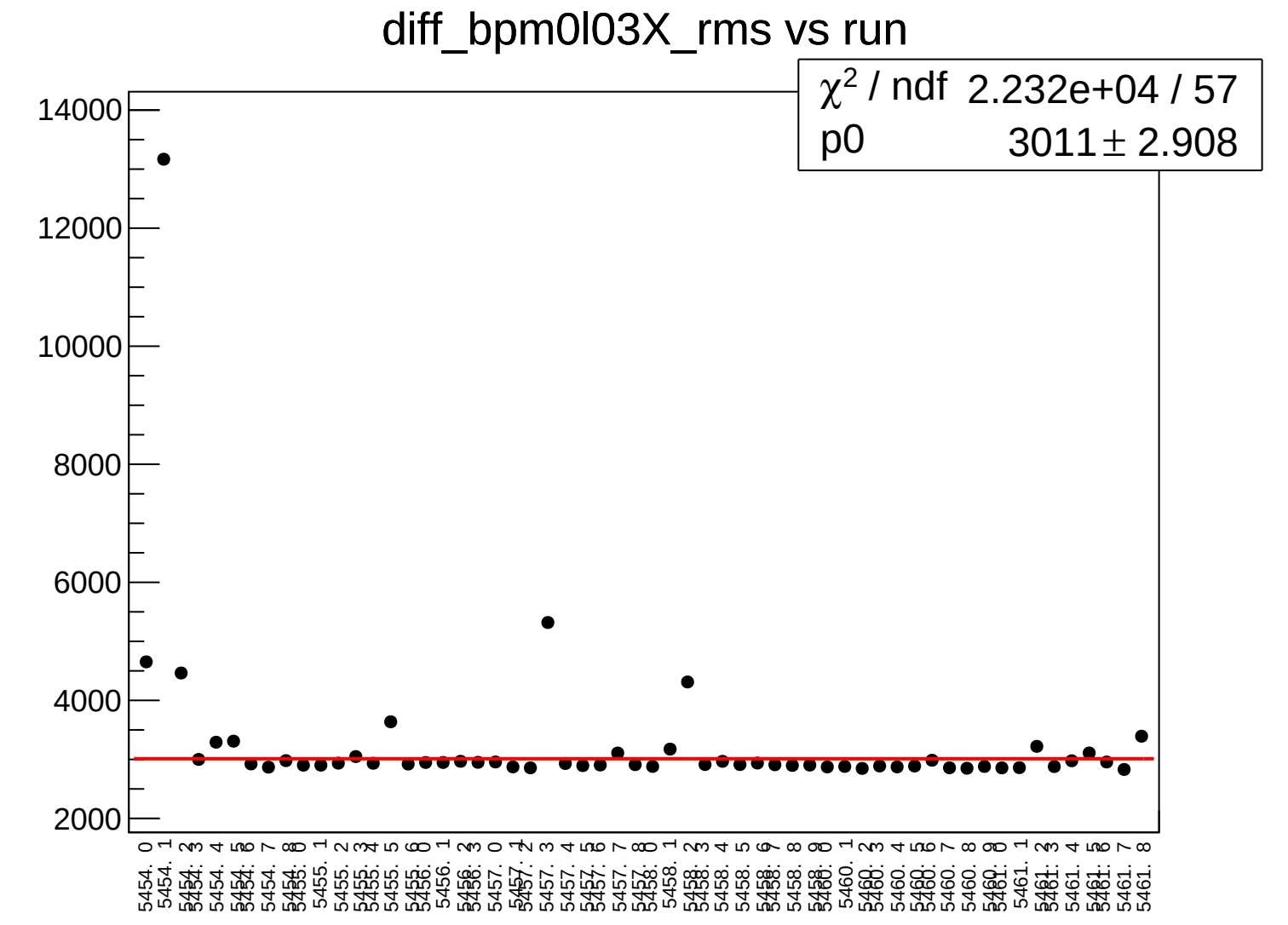

diff_bpm0l02Y_mean vs run
χ² / ndf 83.45 / 57
p0 28.04 ± 7.77
300
200
100
0
−100
−200
pull
Entries 58
Mean 184.3
Std Dev 159.8
3
2
1
0
−1
−2

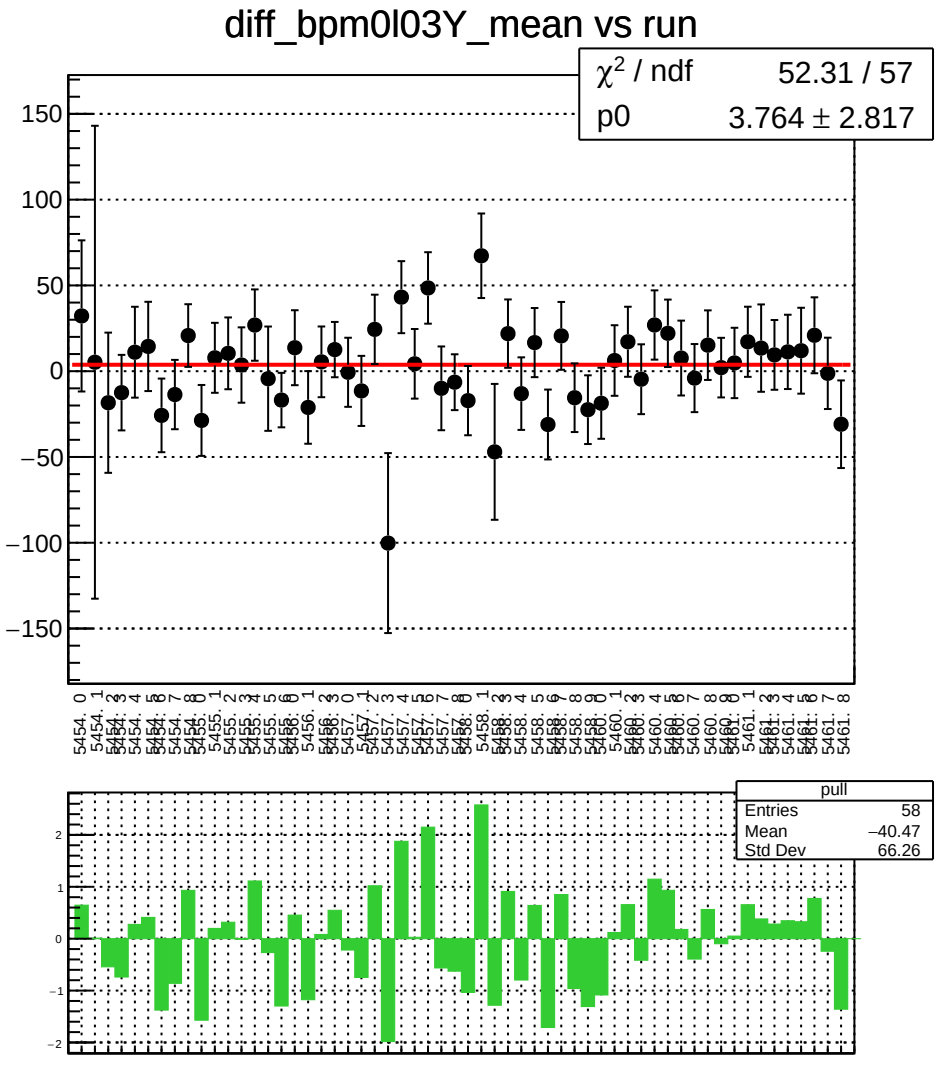

pull1D
Entries 58
Mean −0.01658
Std Dev 1.199
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

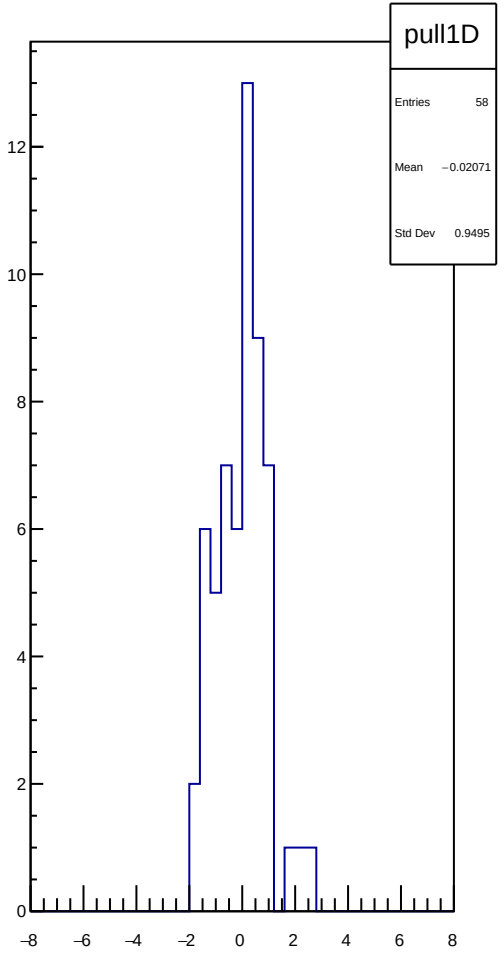

diff_bpm0l02Y_rms vs run
χ² / ndf 4896 / 57
p0 5736 ± 5.494
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

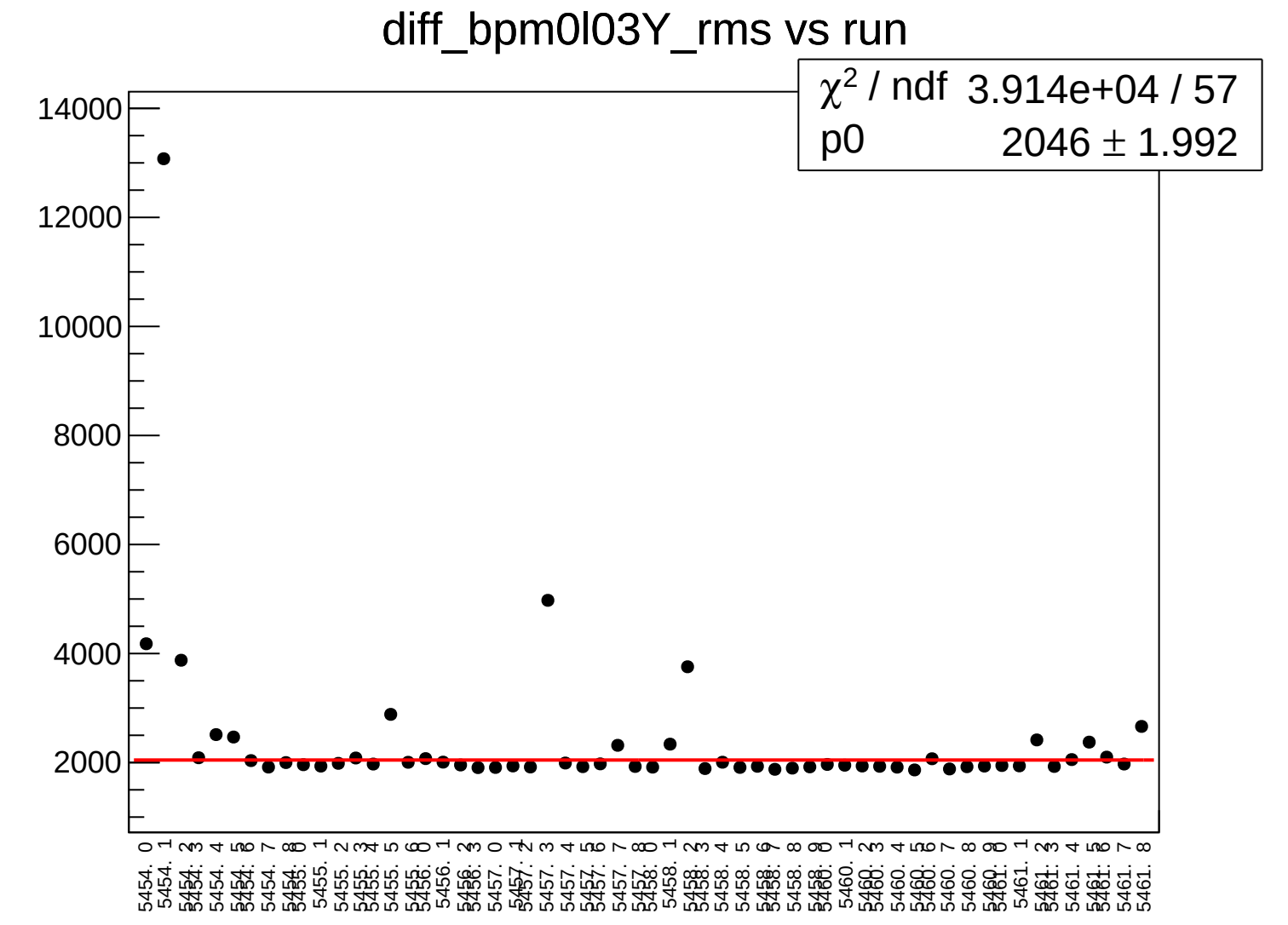

diff_bpm0l03X_mean vs run
χ^2 / ndf 53.68 / 57
p0 1.436 ± 4.112
pull
Entries 58
Mean 2407
Std Dev 2383

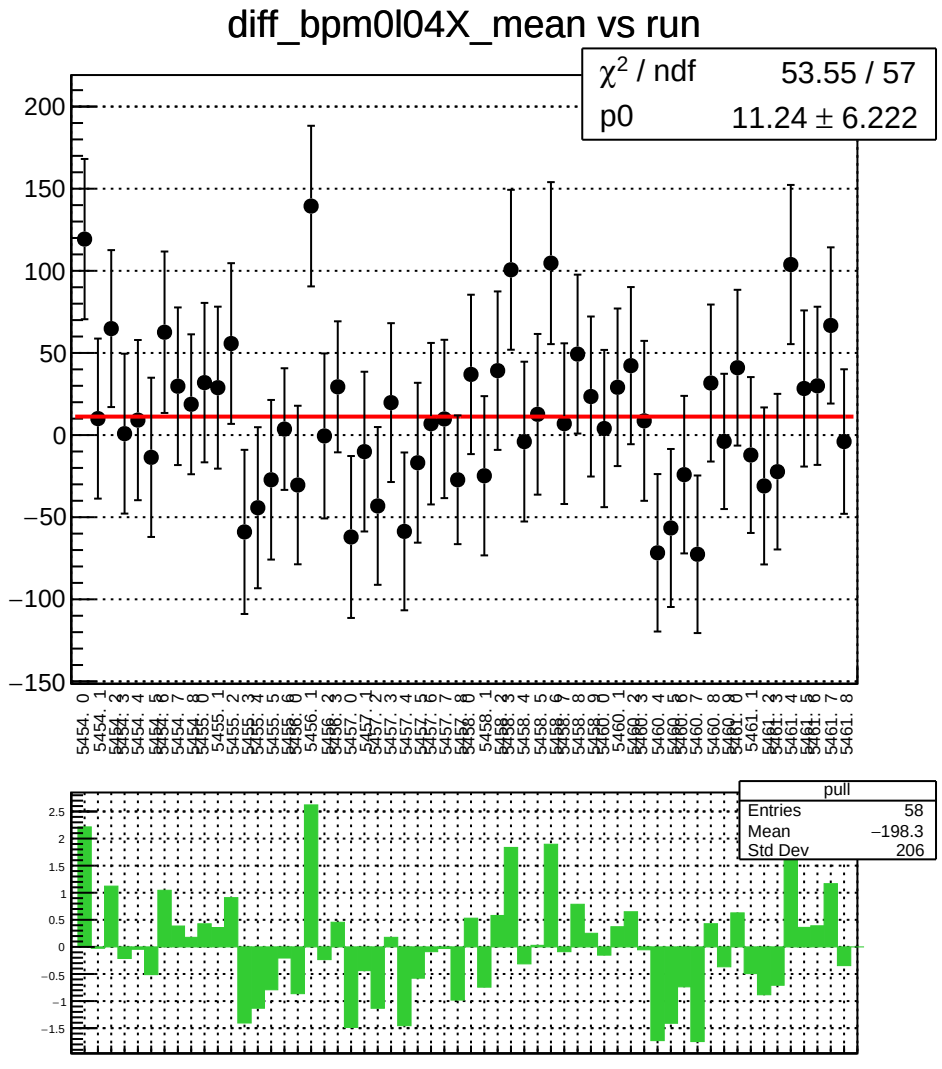

pull1D
Entries 58
Mean −0.001191
Std Dev 0.962

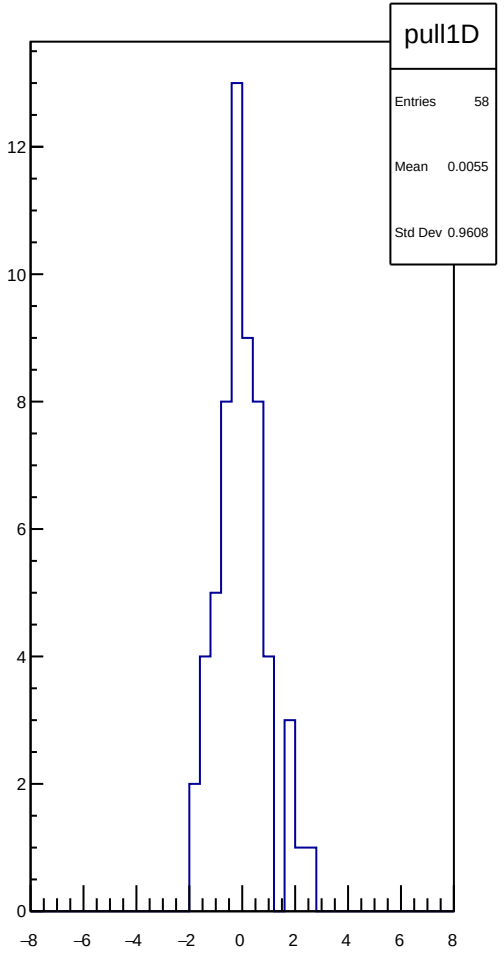

diff_bpm0l03X_rms vs run
χ² / ndf 2.232e+04 / 57
p0 3011 ± 2.908
14000
12000
10000
8000
6000
4000
2000

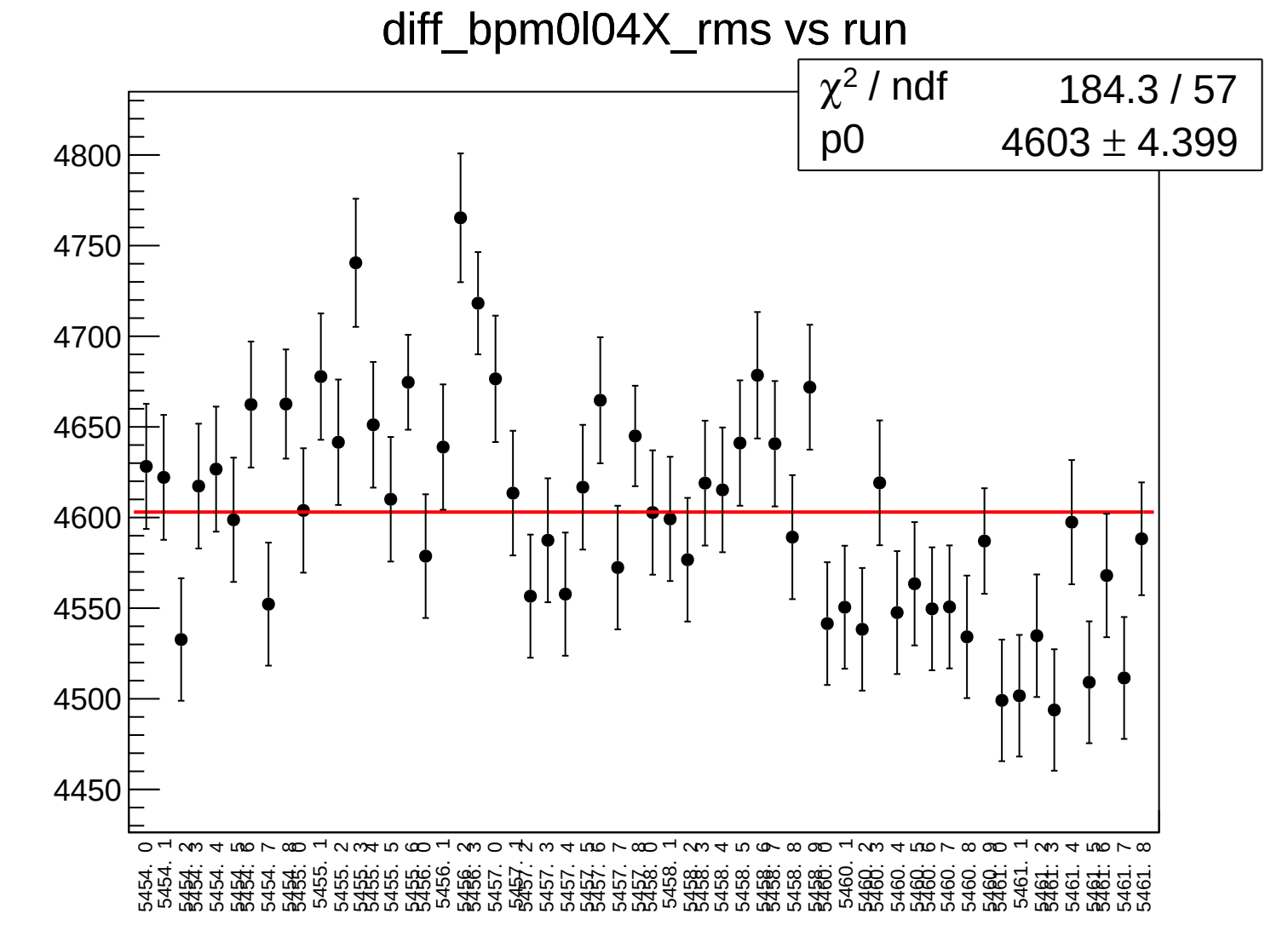

diff_bpm0l03Y_mean vs run
χ² / ndf 52.31 / 57
p0 3.764 ± 2.817
150
100
50
0
−50
−100
−150
pull
Entries 58
Mean −40.47
Std Dev 66.26
2
1
0
−1
−2

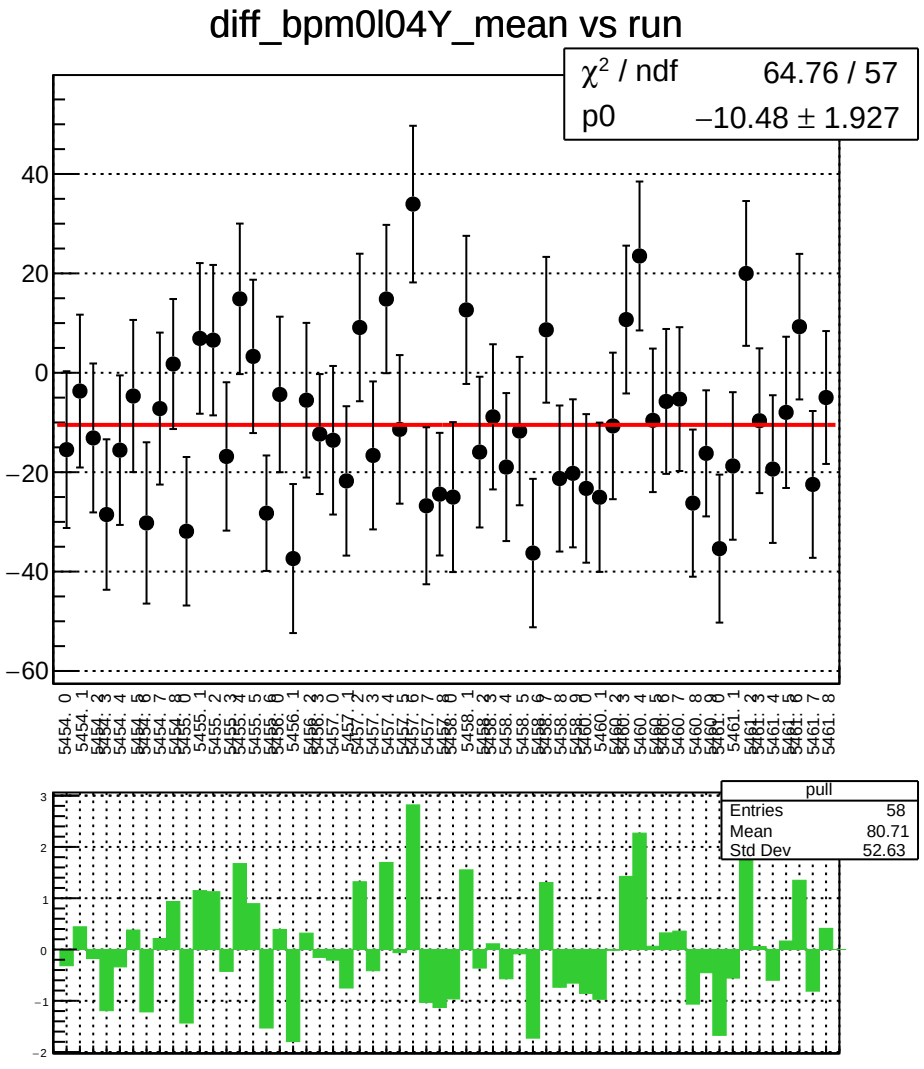

pull1D
Entries 58
Mean −0.02071
Std Dev 0.9495
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

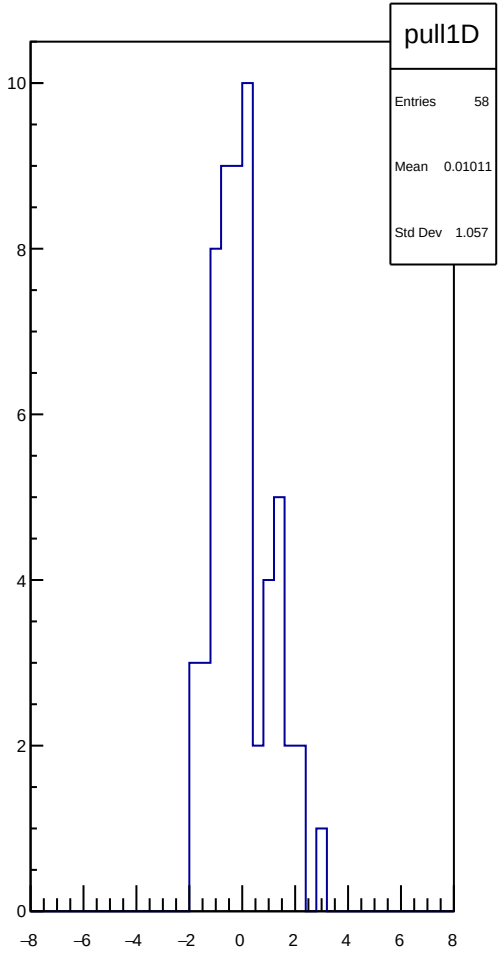

diff_bpm0l03Y_rms vs run
χ² / ndf 3.914e+04 / 57
p0 2046 ± 1.992
14000
12000
10000
8000
6000
4000
2000

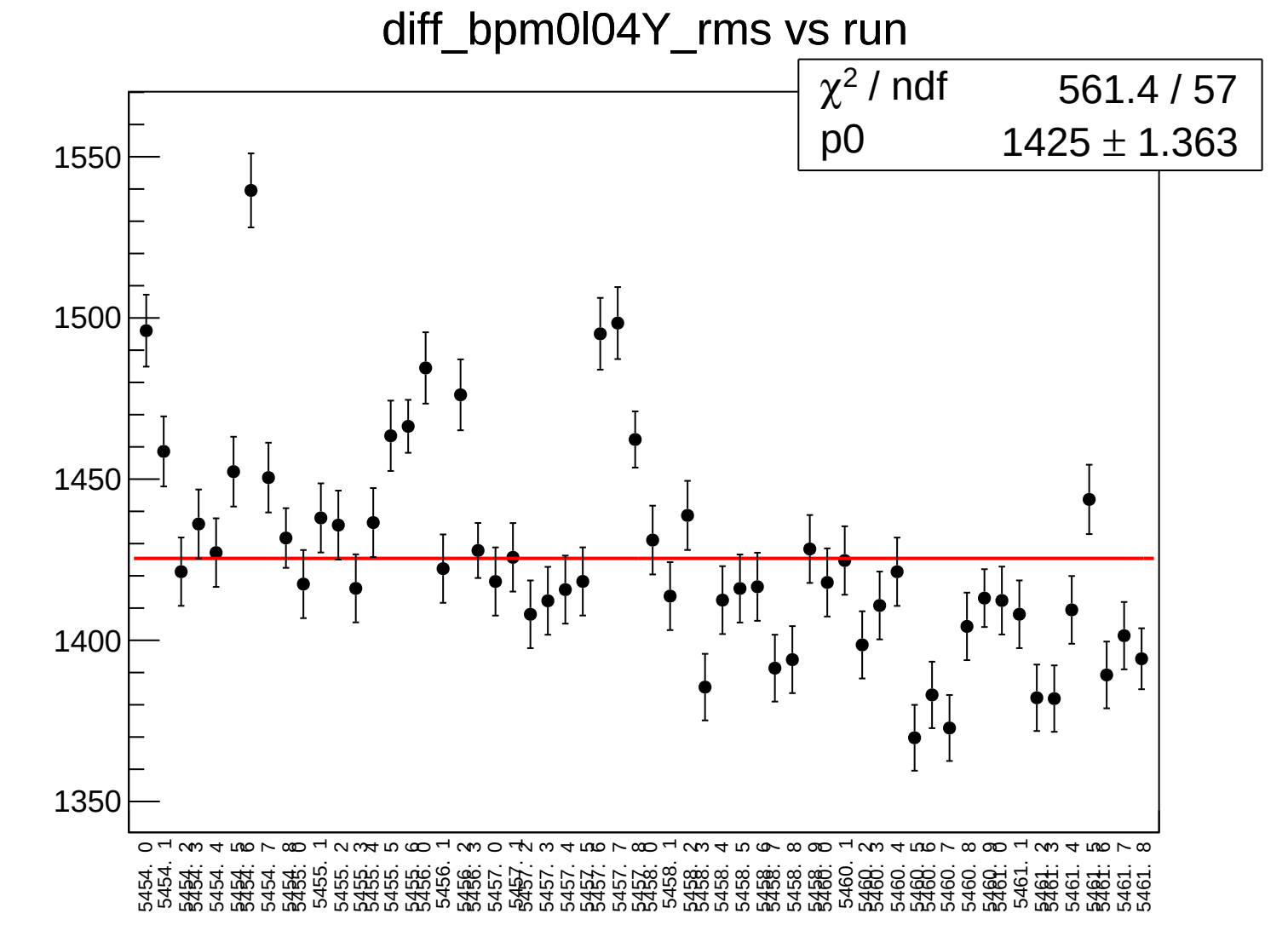

diff_bpm0l04X_mean vs run
χ² / ndf 53.55 / 57
p0 11.24 ± 6.222
pull
Entries 58
Mean −198.3
Std Dev 206

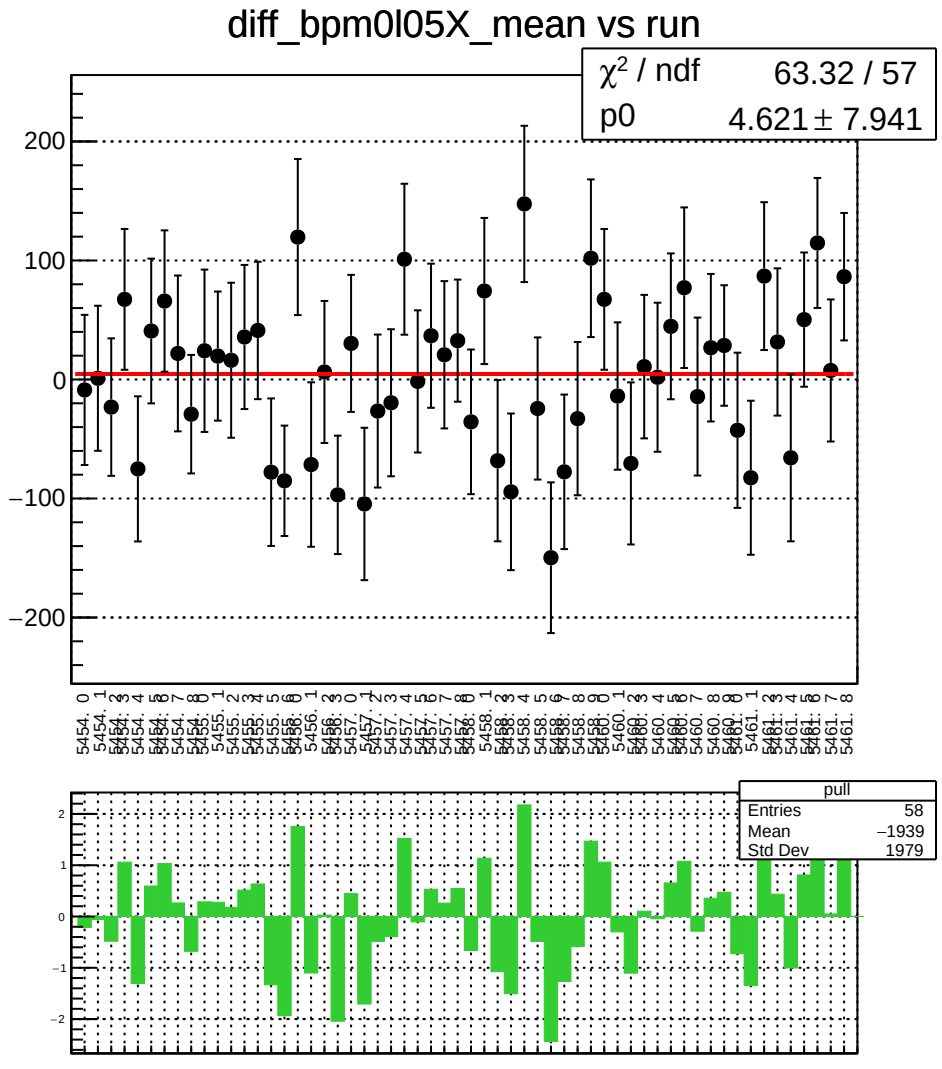

pull1D
Entries 58
Mean 0.0055
Std Dev 0.9608

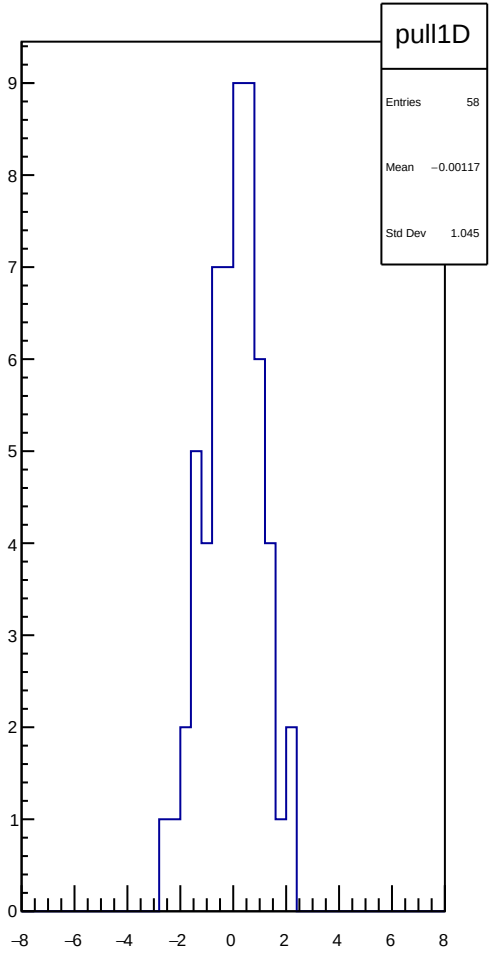

diff_bpm0l04X_rms vs run
χ² / ndf 184.3 / 57
p0 4603 ± 4.399
4800
4750
4700
4650
4600
4550
4500
4450

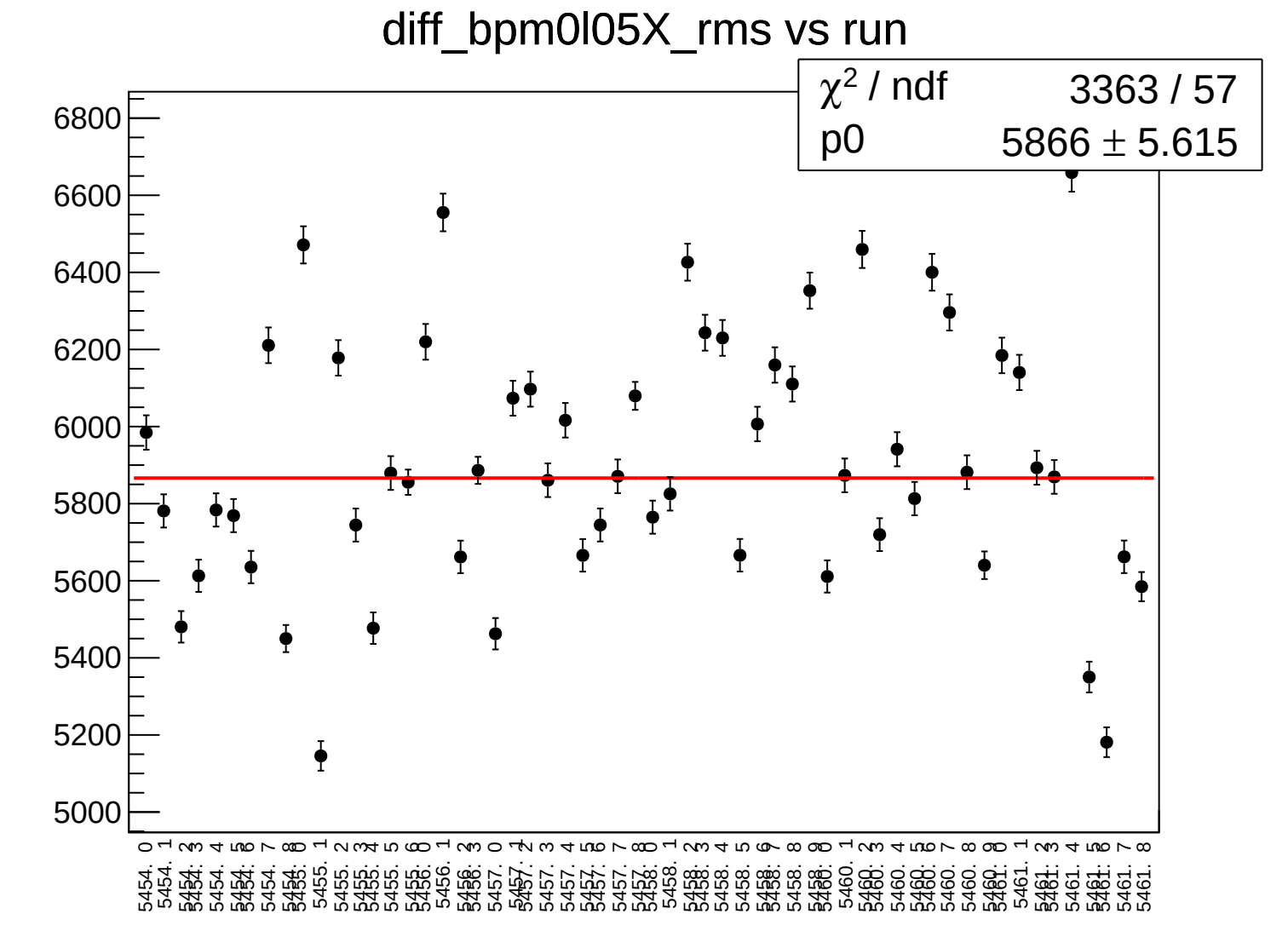

diff_bpm0l04Y_mean vs run
χ² / ndf 64.76 / 57
p0 −10.48 ± 1.927
pull
Entries 58
Mean 80.71
Std Dev 52.63

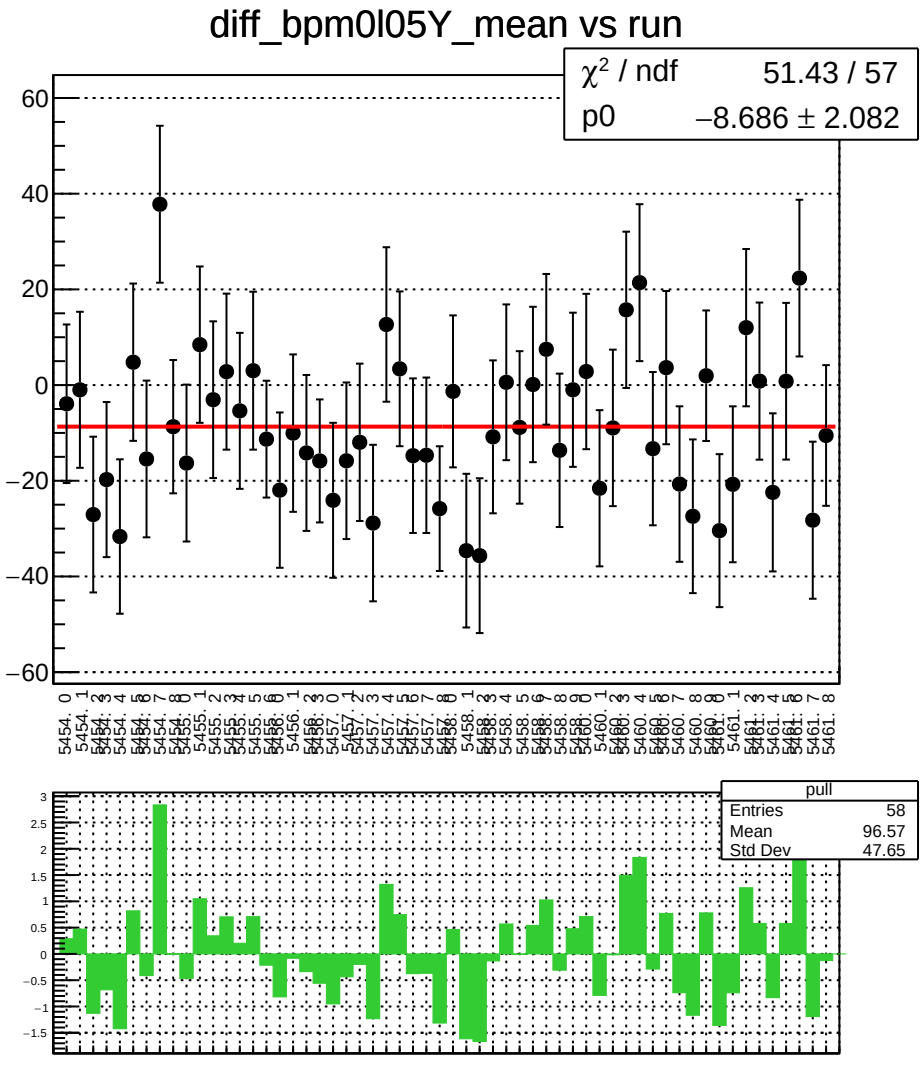

pull1D
Entries 58
Mean 0.01011
Std Dev 1.057

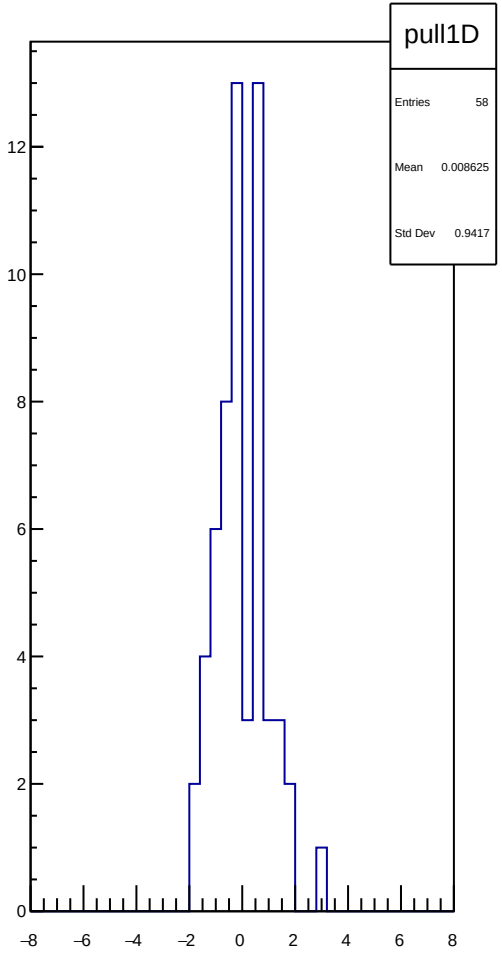

diff_bpm0l04Y_rms vs run
χ² / ndf 561.4 / 57
p0 1425 ± 1.363
1550
1500
1450
1400
1350

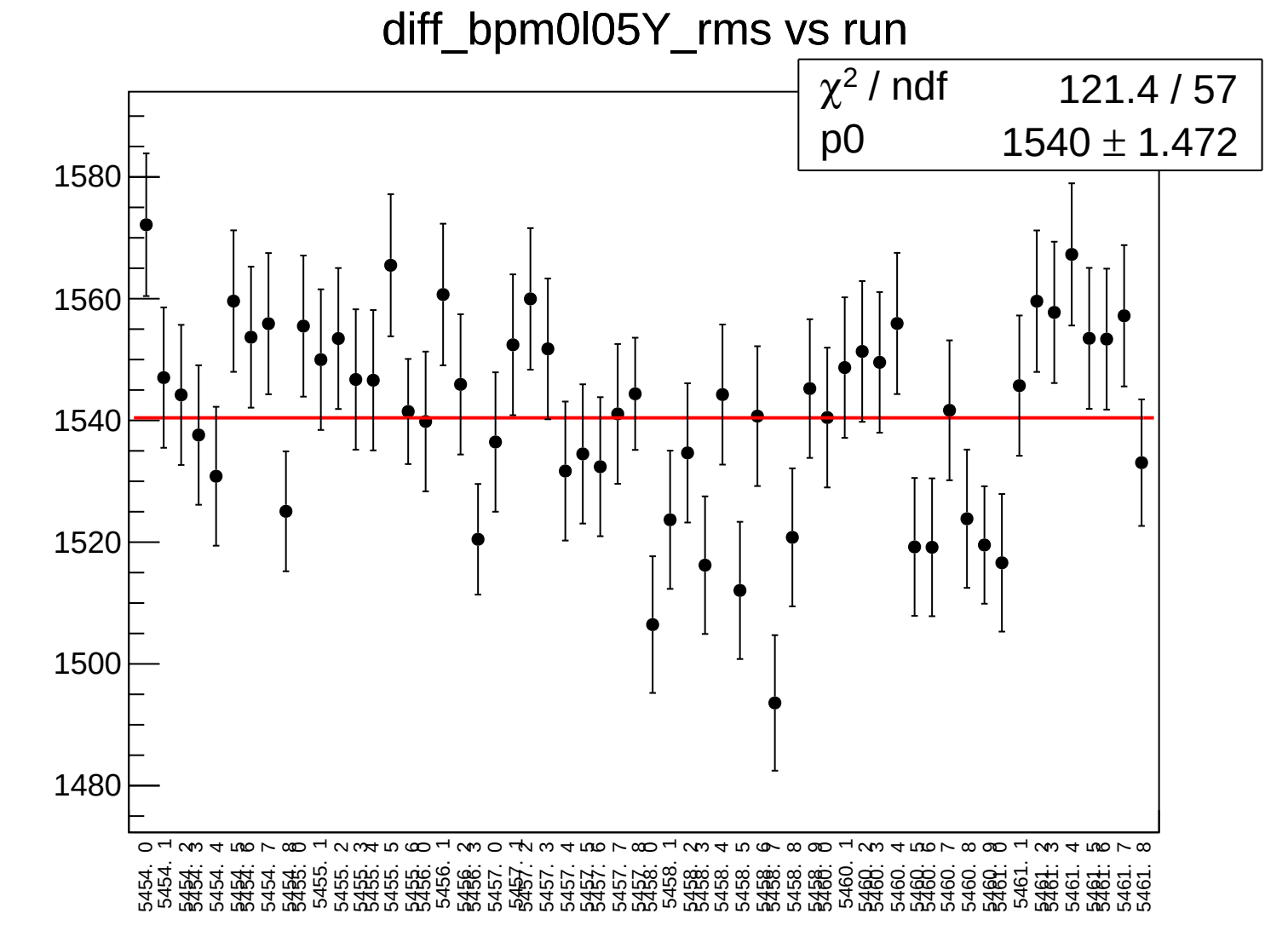

diff_bpm0l05X_mean vs run
χ² / ndf 63.32 / 57
p0 4.621 ± 7.941
200
100
0
−100
−200
pull
Entries 58
Mean −1939
Std Dev 1979
2
1
0
−1
−2

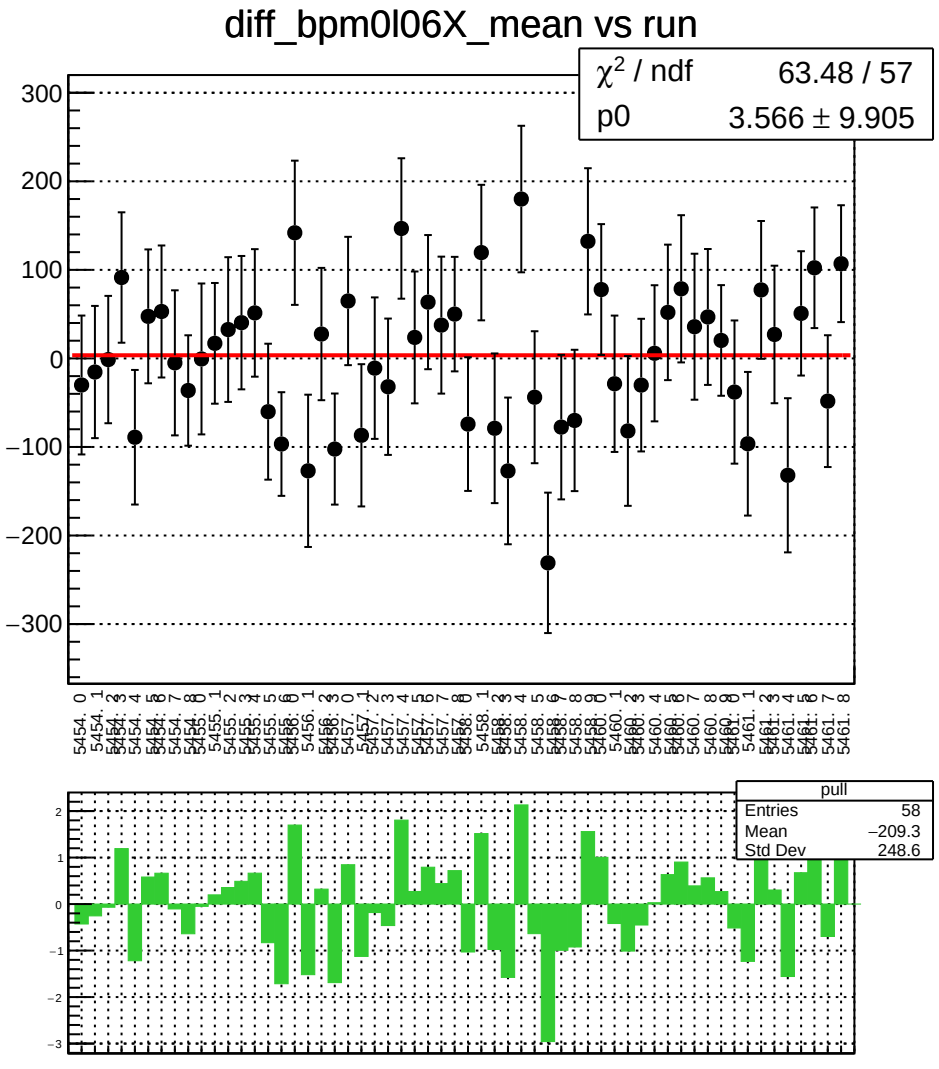

pull1D
Entries 58
Mean −0.00117
Std Dev 1.045
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

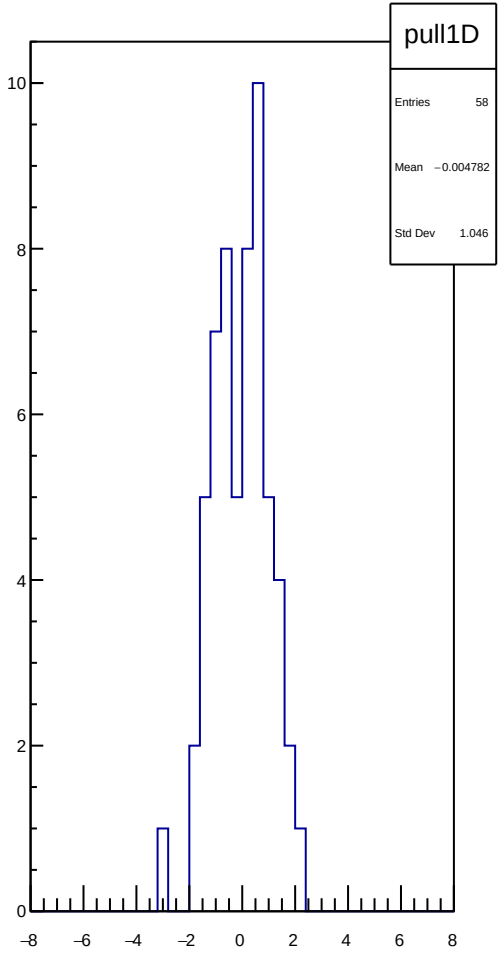

diff_bpm0l05X_rms vs run
χ² / ndf 3363 / 57
p0 5866 ± 5.615
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000

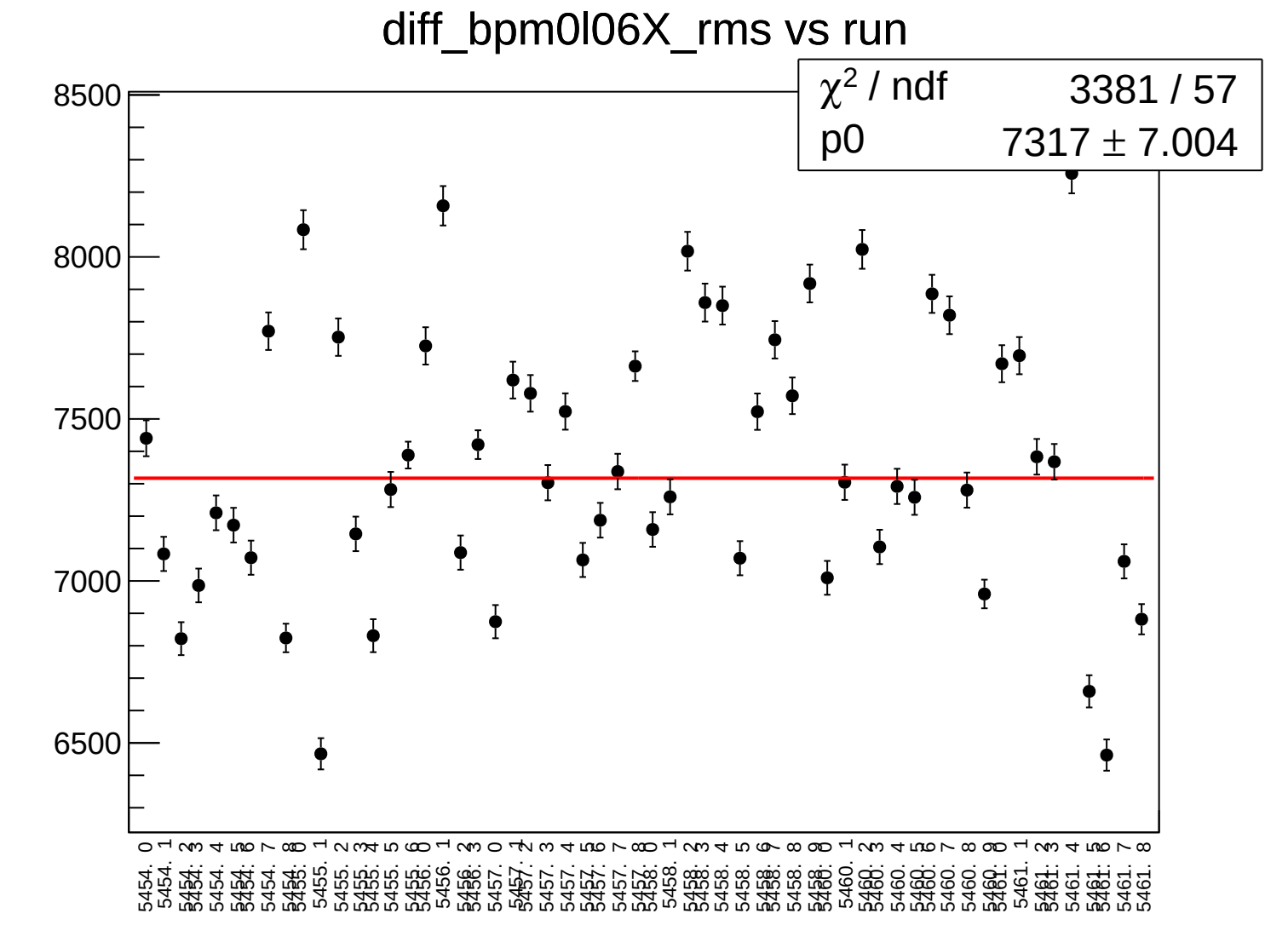

diff_bpm0l05Y_mean vs run
χ² / ndf 51.43 / 57
p0 −8.686 ± 2.082
pull
Entries 58
Mean 96.57
Std Dev 47.65

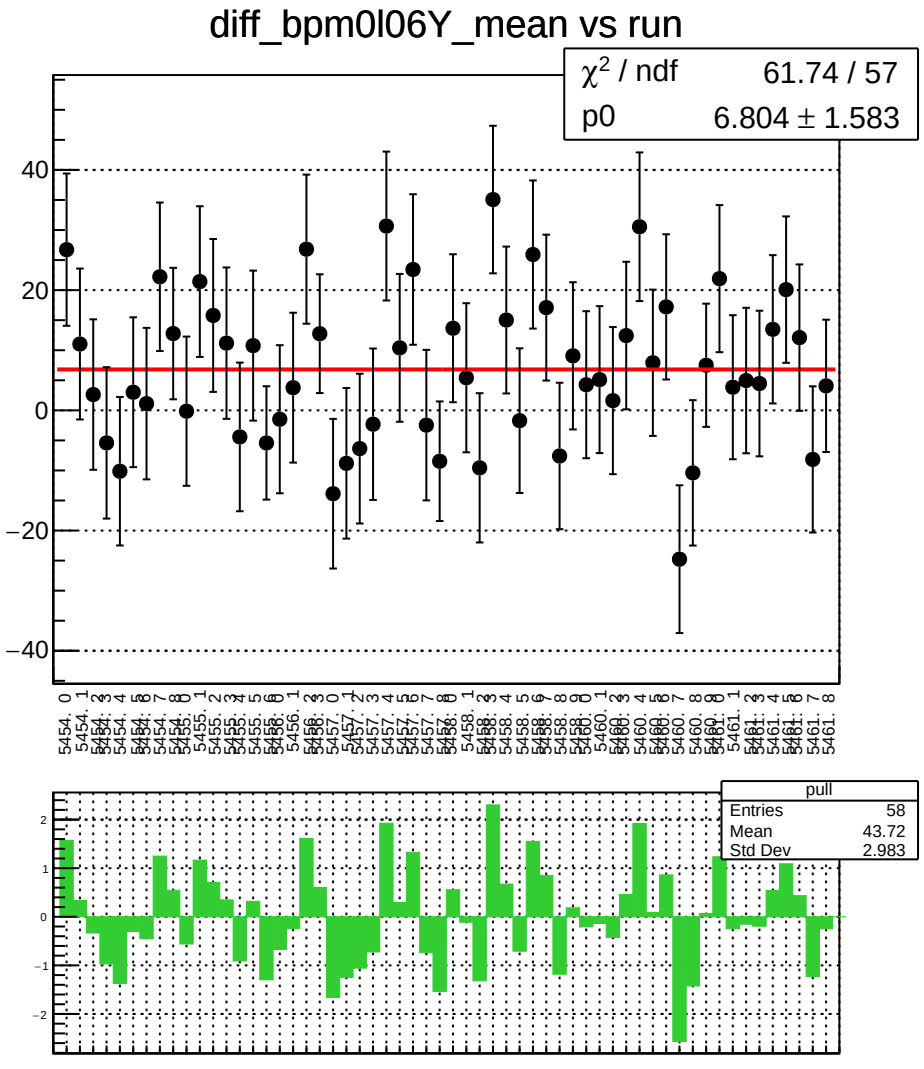

pull1D
Entries 58
Mean 0.008625
Std Dev 0.9417

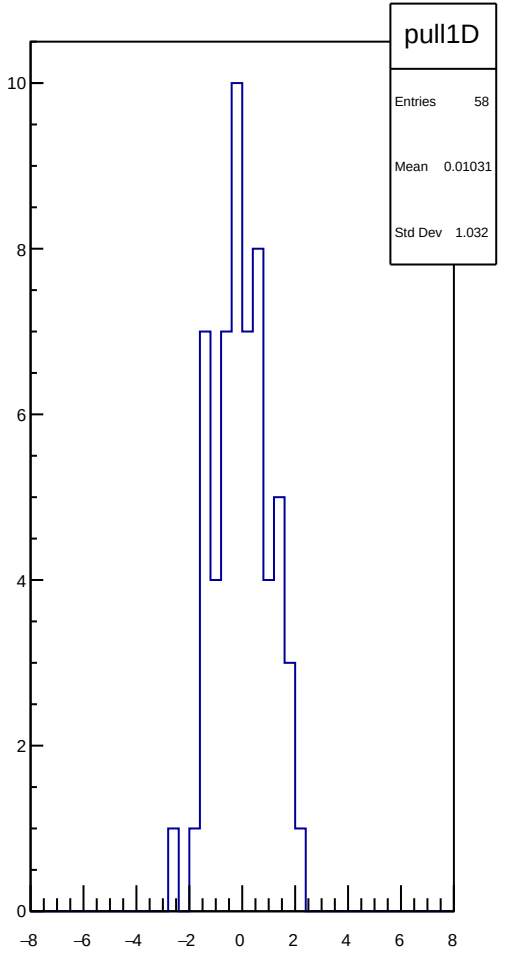

diff_bpm0l05Y_rms vs run
χ² / ndf 121.4 / 57
p0 1540 ± 1.472
1580
1560
1540
1520
1500
1480

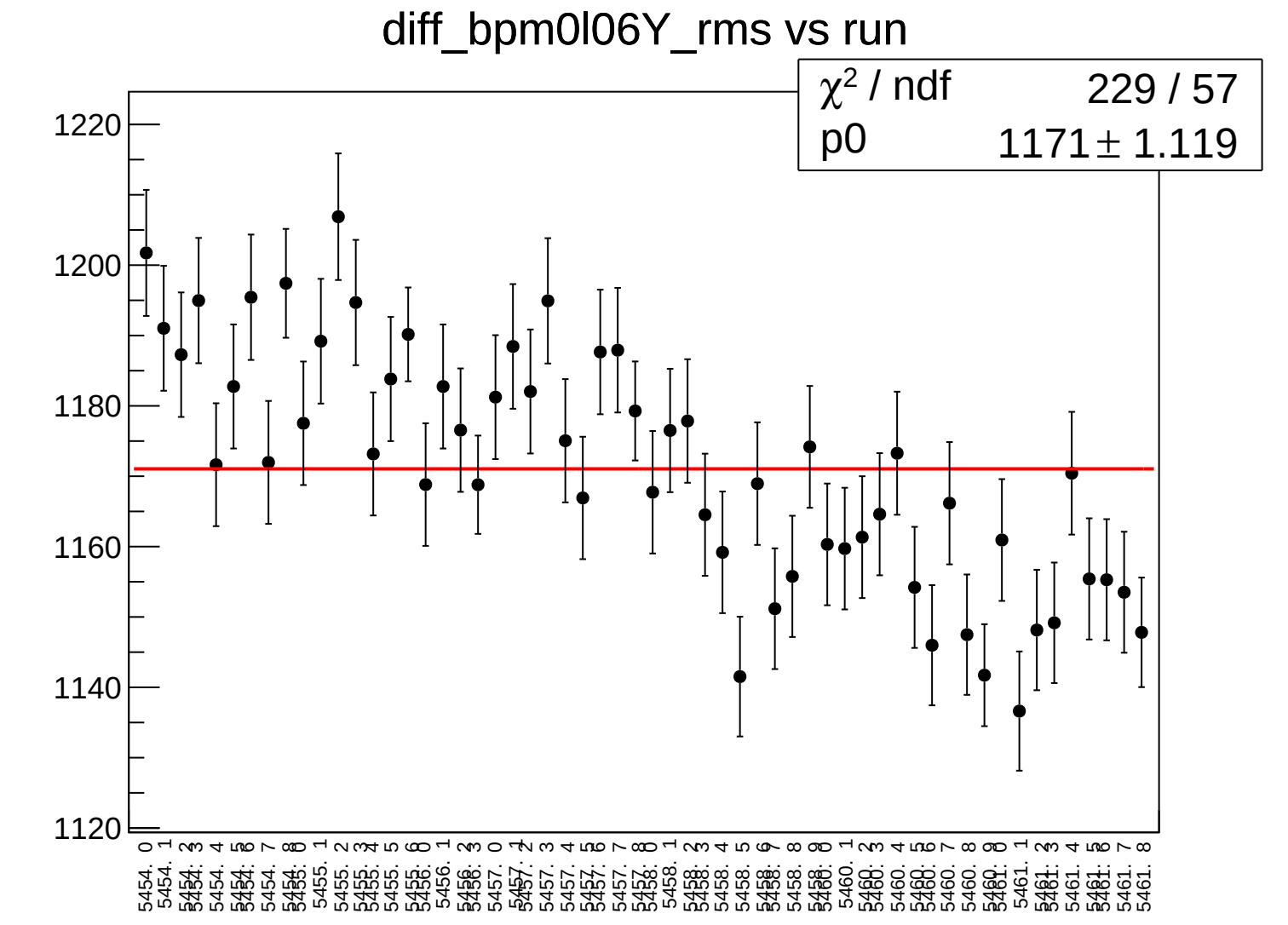

diff_bpm0l06X_mean vs run
χ² / ndf 63.48 / 57
p0 3.566 ± 9.905
pull
Entries 58
Mean −209.3
Std Dev 248.6

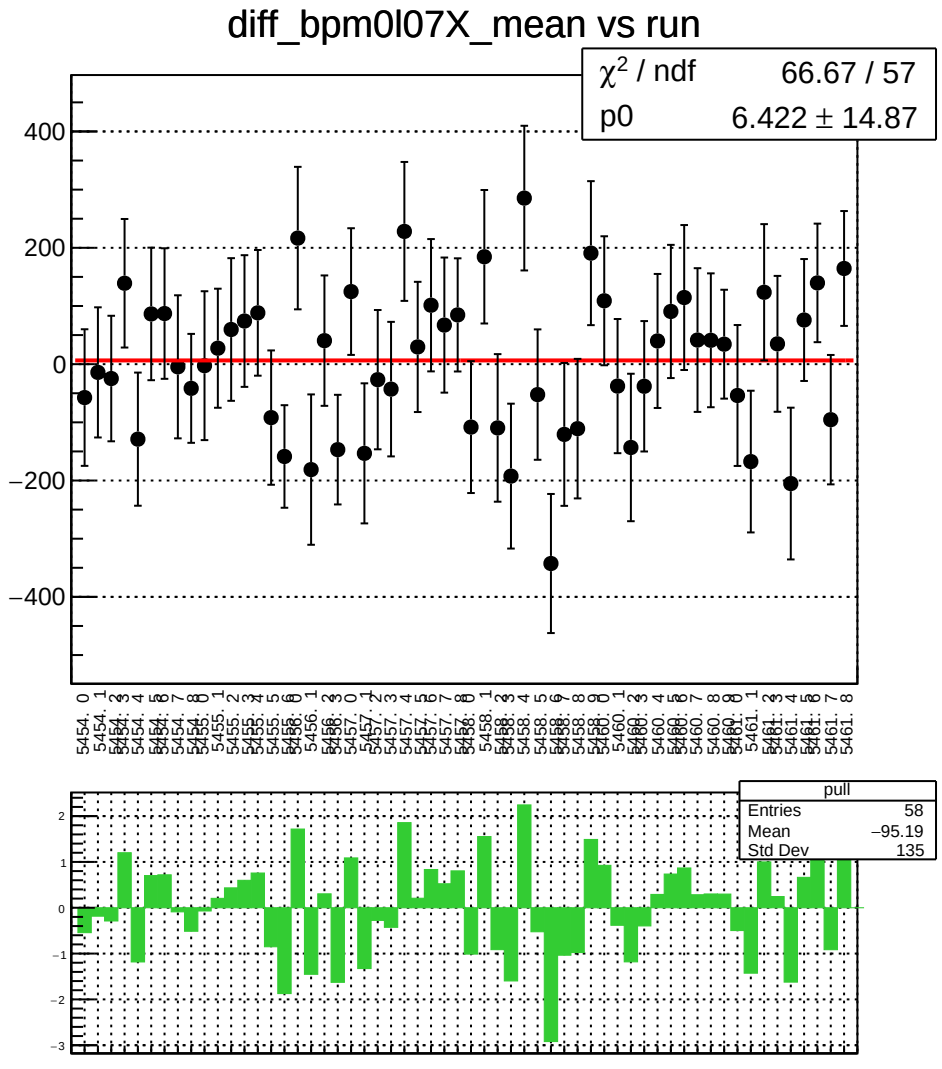

pull1D
Entries 58
Mean −0.004782
Std Dev 1.046

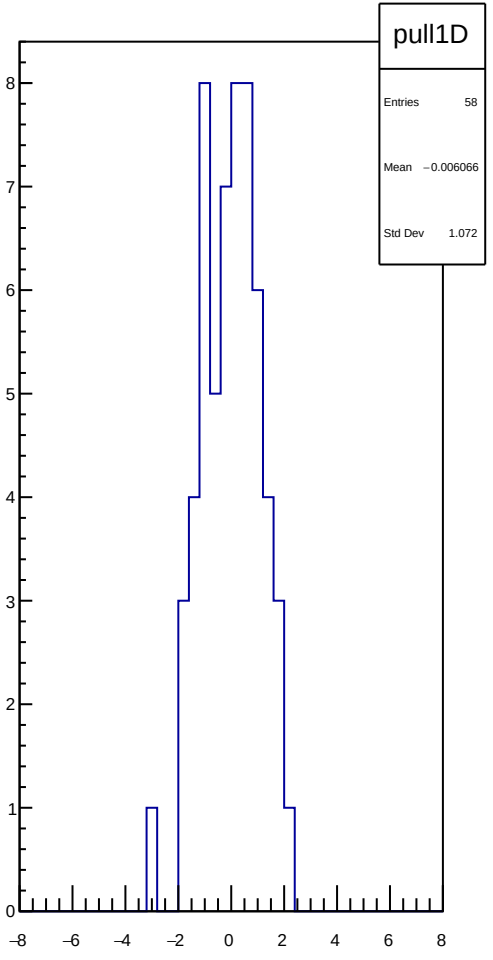

diff_bpm0l06X_rms vs run
χ² / ndf 3381 / 57
p0 7317 ± 7.004
8500
8000
7500
7000
6500

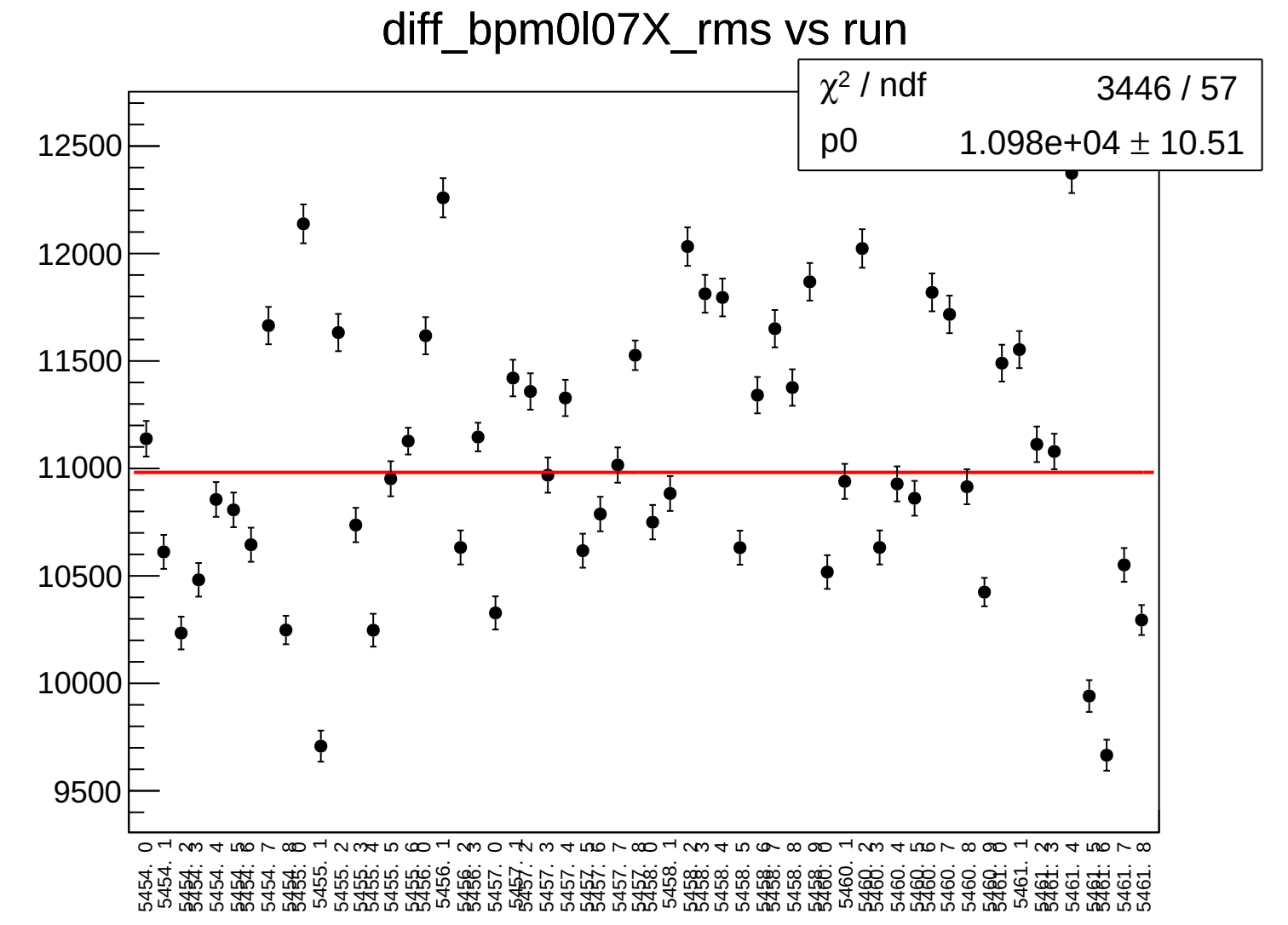

diff_bpm0l06Y_mean vs run
χ² / ndf 61.74 / 57
p0 6.804 ± 1.583
pull
Entries 58
Mean 43.72
Std Dev 2.983

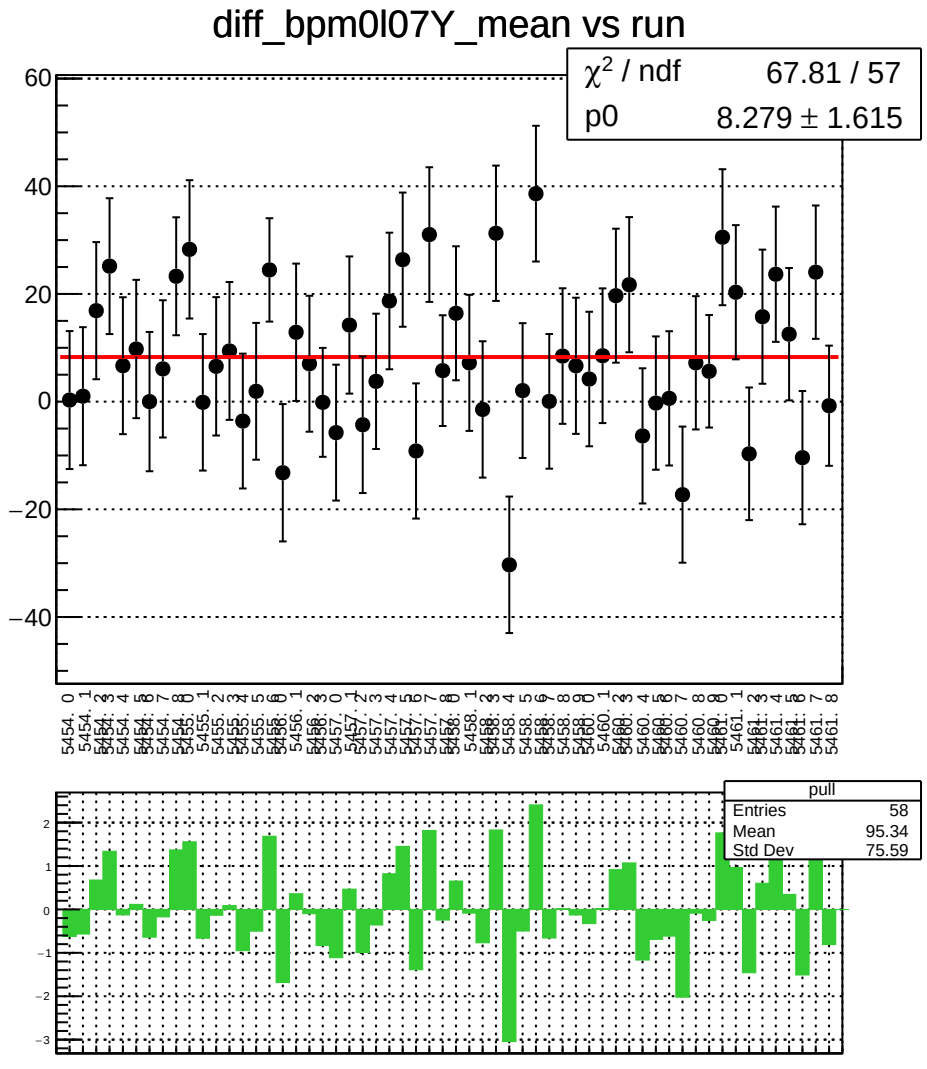

pull1D
Entries 58
Mean 0.01031
Std Dev 1.032

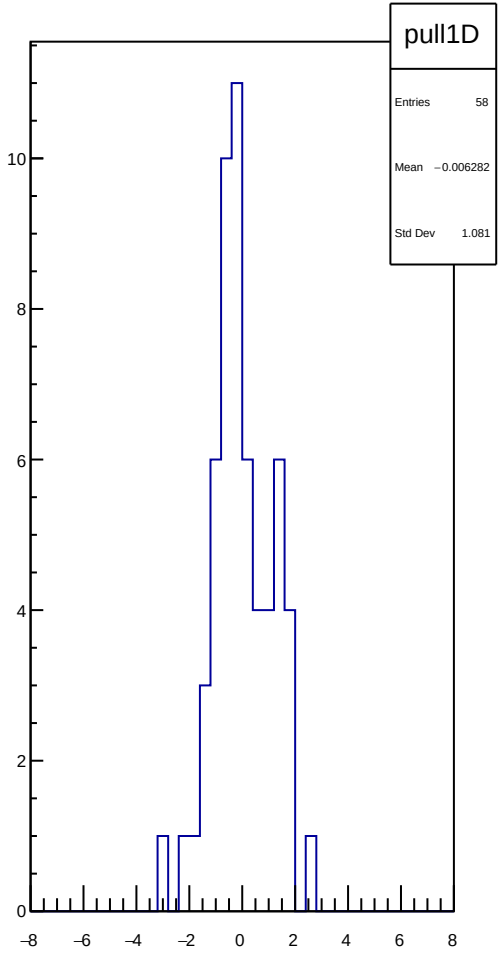

diff_bpm0l06Y_rms vs run
χ² / ndf 229 / 57
p0 1171 ± 1.119
1220
1200
1180
1160
1140
1120

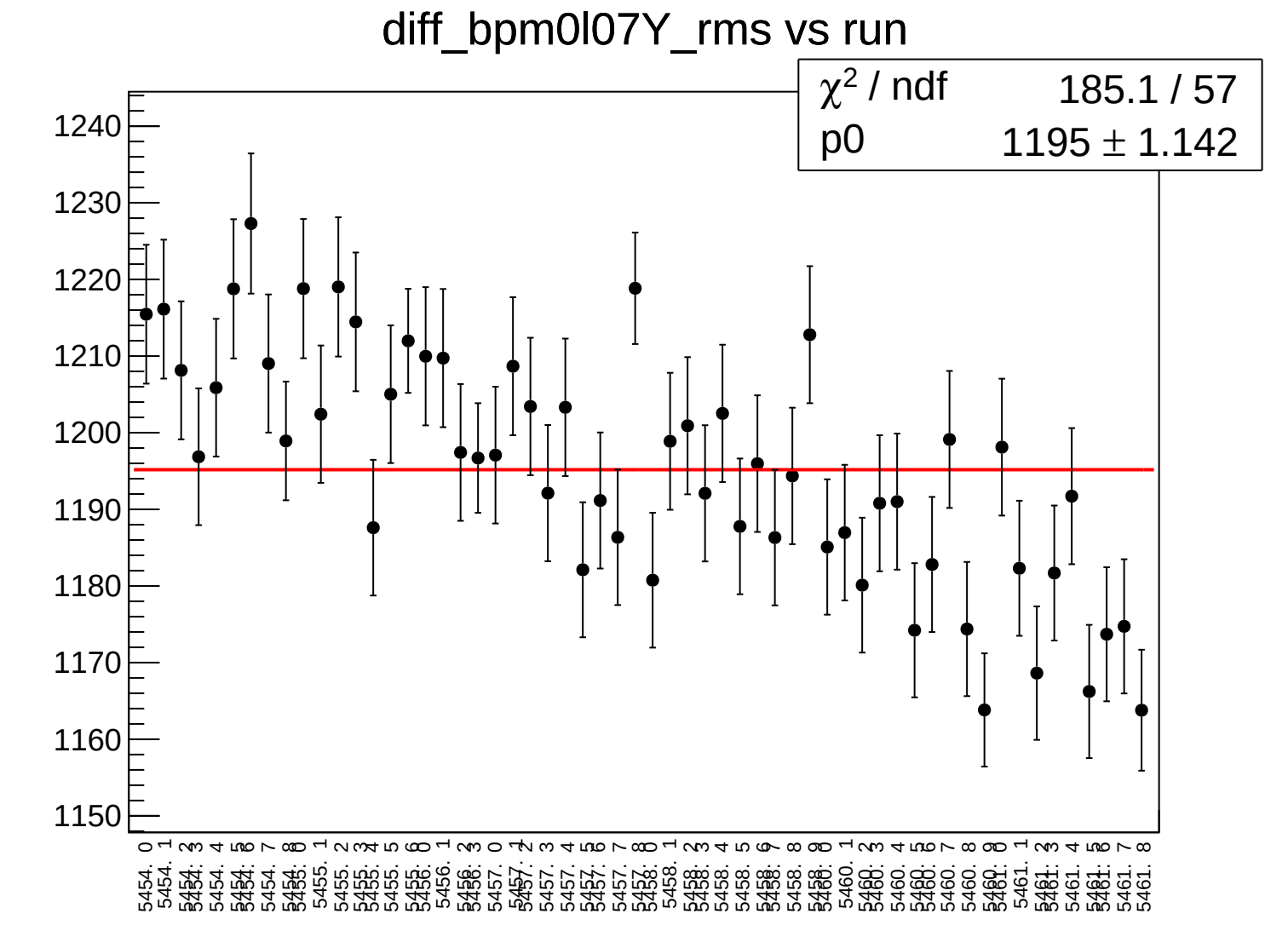

diff_bpm0l07X_mean vs run
χ^2 / ndf 66.67 / 57
p0 6.422 ± 14.87
400
200
0
−200
−400
pull
Entries 58
Mean −95.19
Std Dev 135
2
1
0
−1
−2
−3

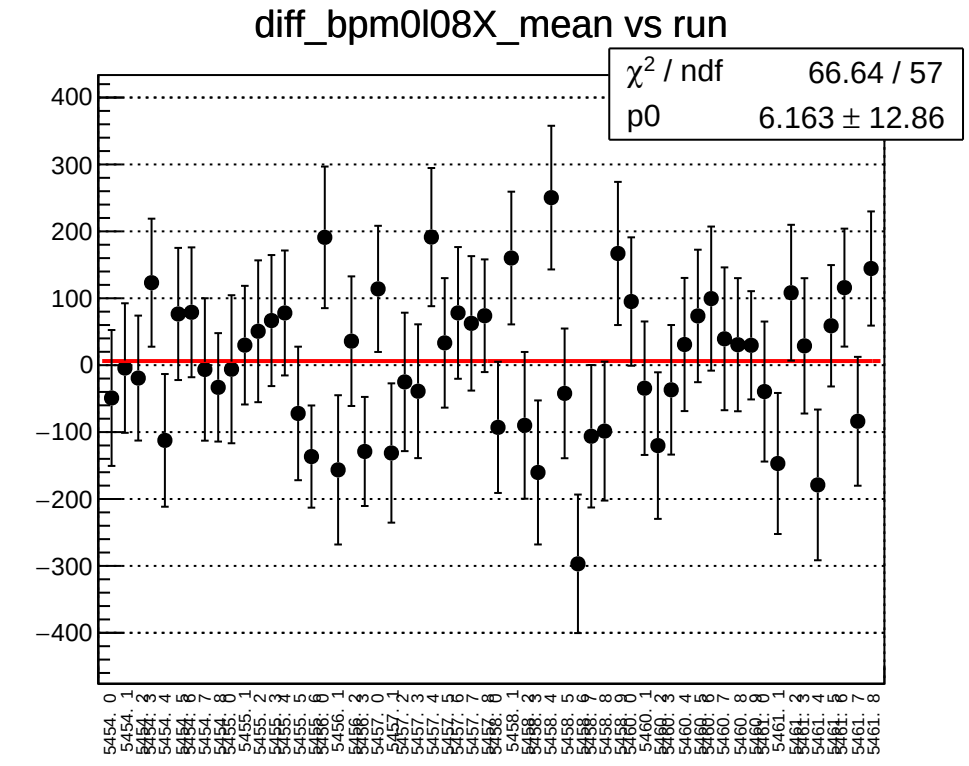

pull1D
Entries 58
Mean −0.006066
Std Dev 1.072
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

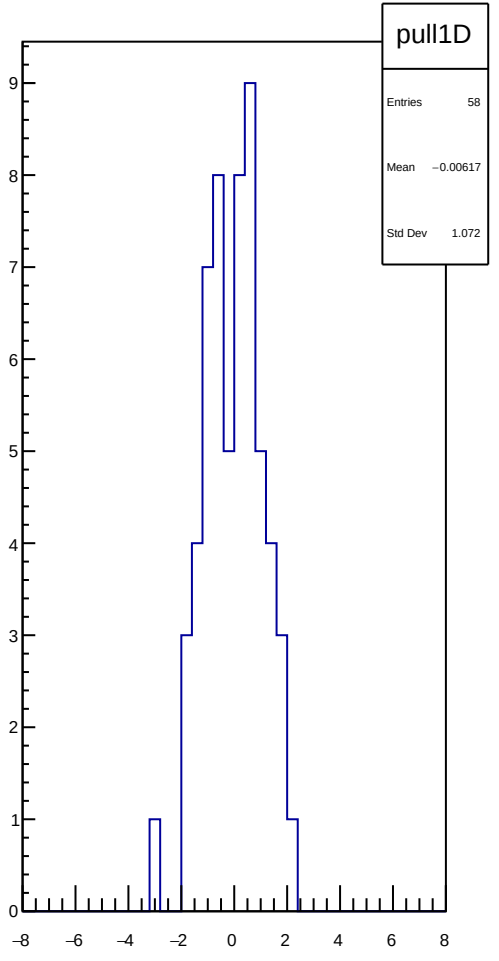

diff_bpm0l07X_rms vs run
χ² / ndf 3446 / 57
p0 1.098e+04 ± 10.51
12500
12000
11500
11000
10500
10000
9500

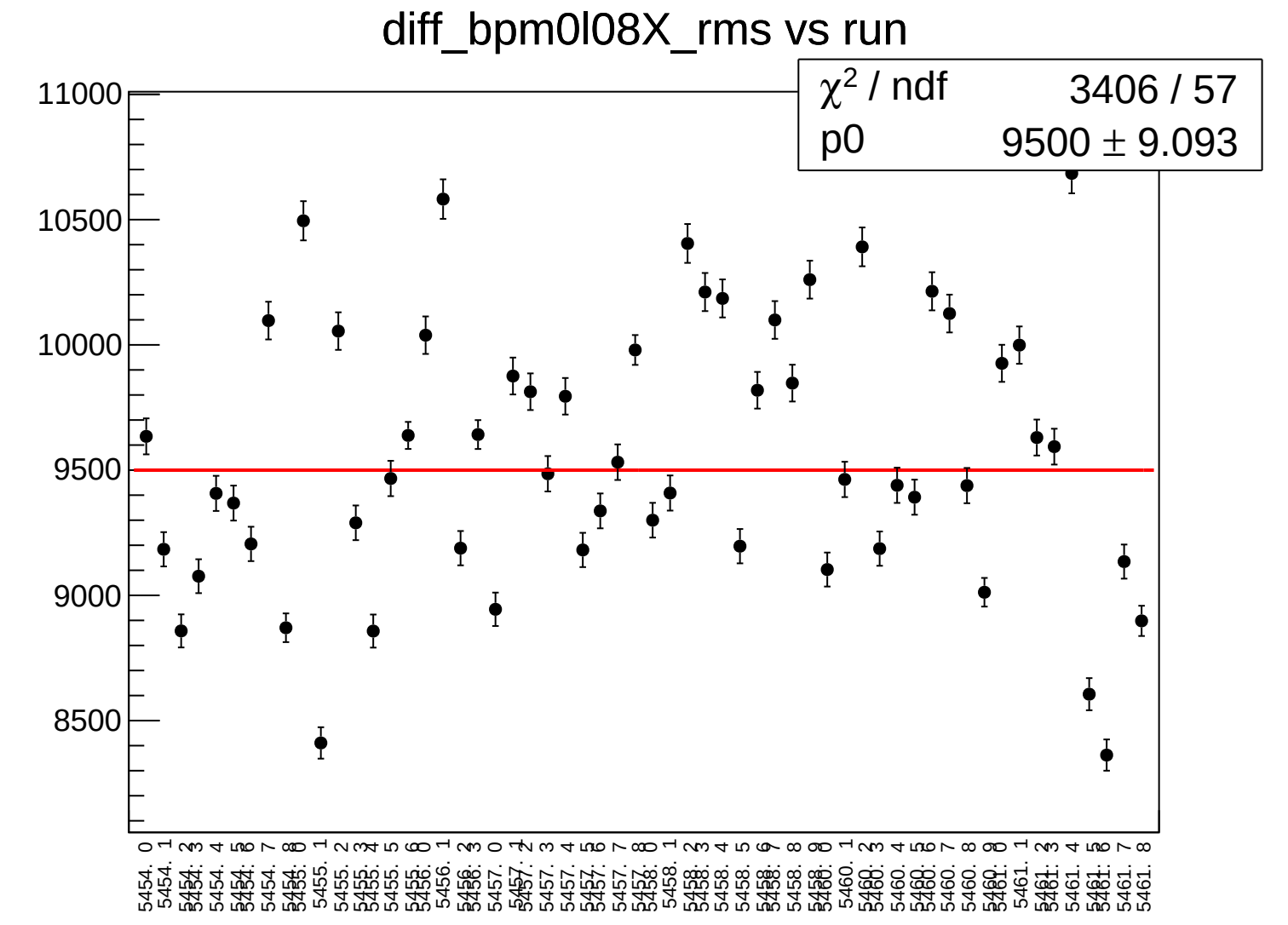

diff_bpm0l07Y_mean vs run
χ^2 / ndf 67.81 / 57
p0 8.279 ± 1.615
pull
Entries 58
Mean 95.34
Std Dev 75.59

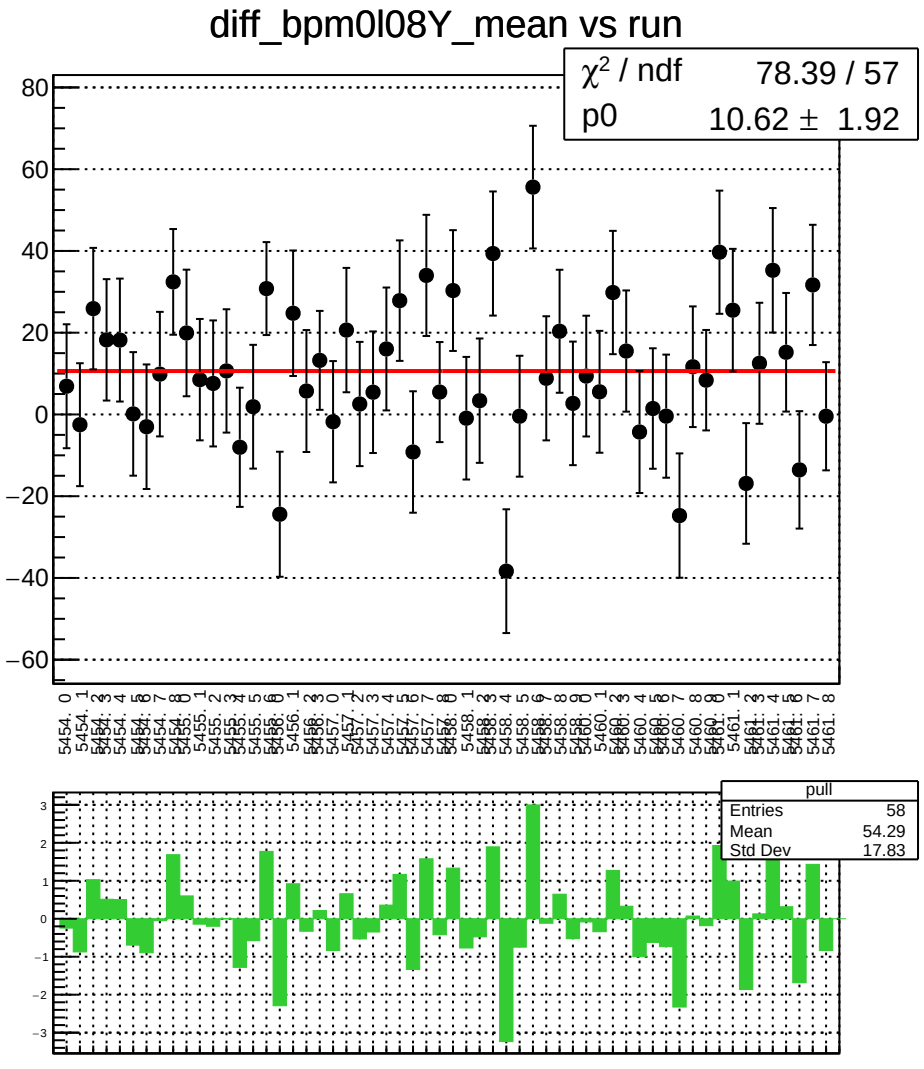

pull1D
Entries 58
Mean −0.006282
Std Dev 1.081

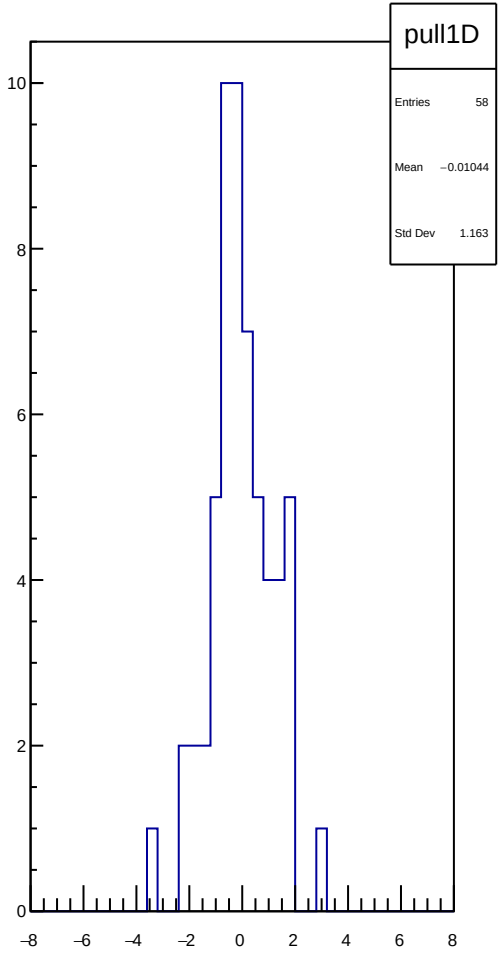

diff_bpm0l07Y_rms vs run
χ² / ndf 185.1 / 57
p0 1195 ± 1.142
1240
1230
1220
1210
1200
1190
1180
1170
1160
1150

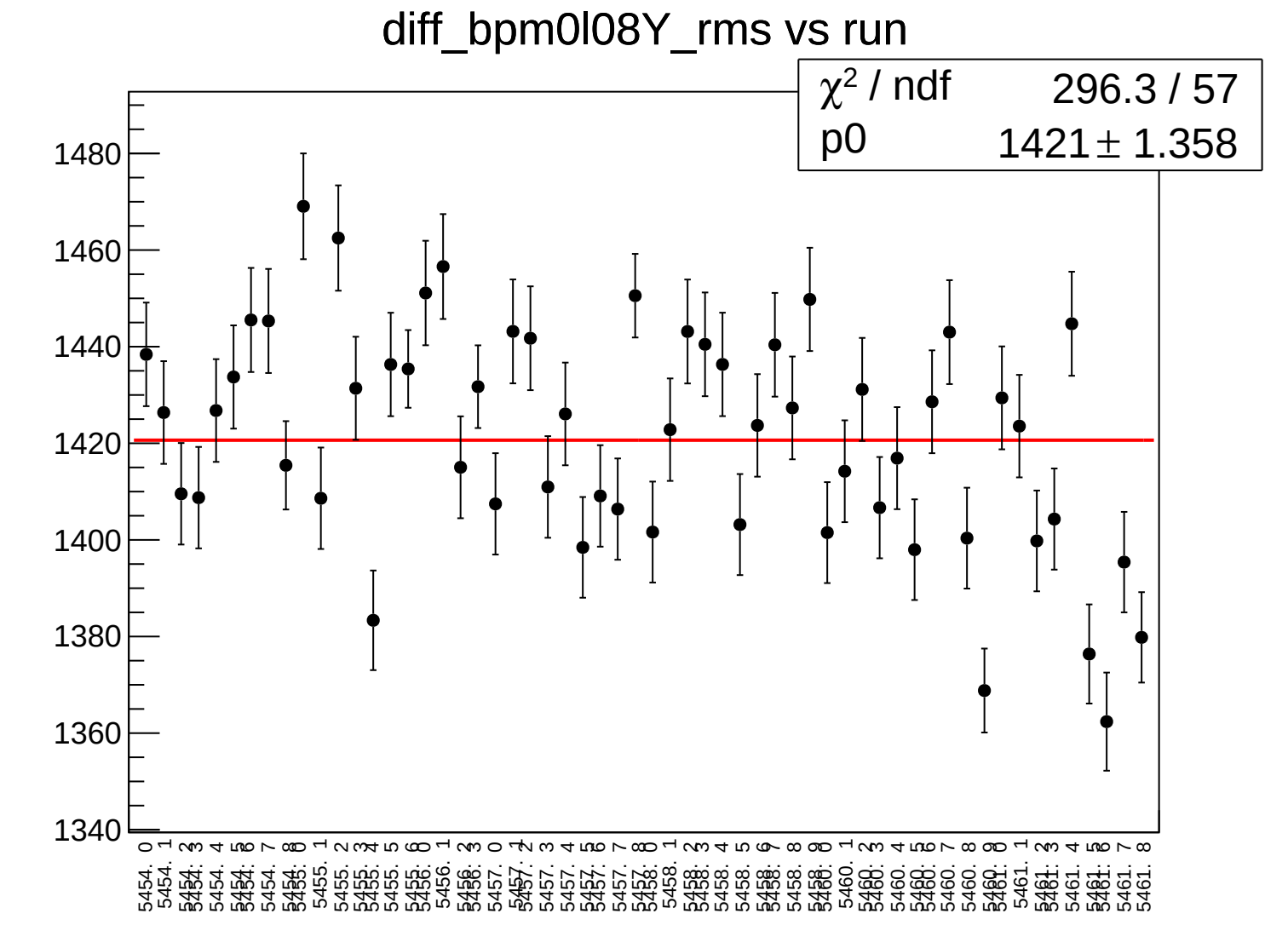

diff_bpm0l08X_mean vs run
χ² / ndf 66.64 / 57
p0 6.163 ± 12.86
pull
Entries 58
Mean −60.16
Std Dev 103.3

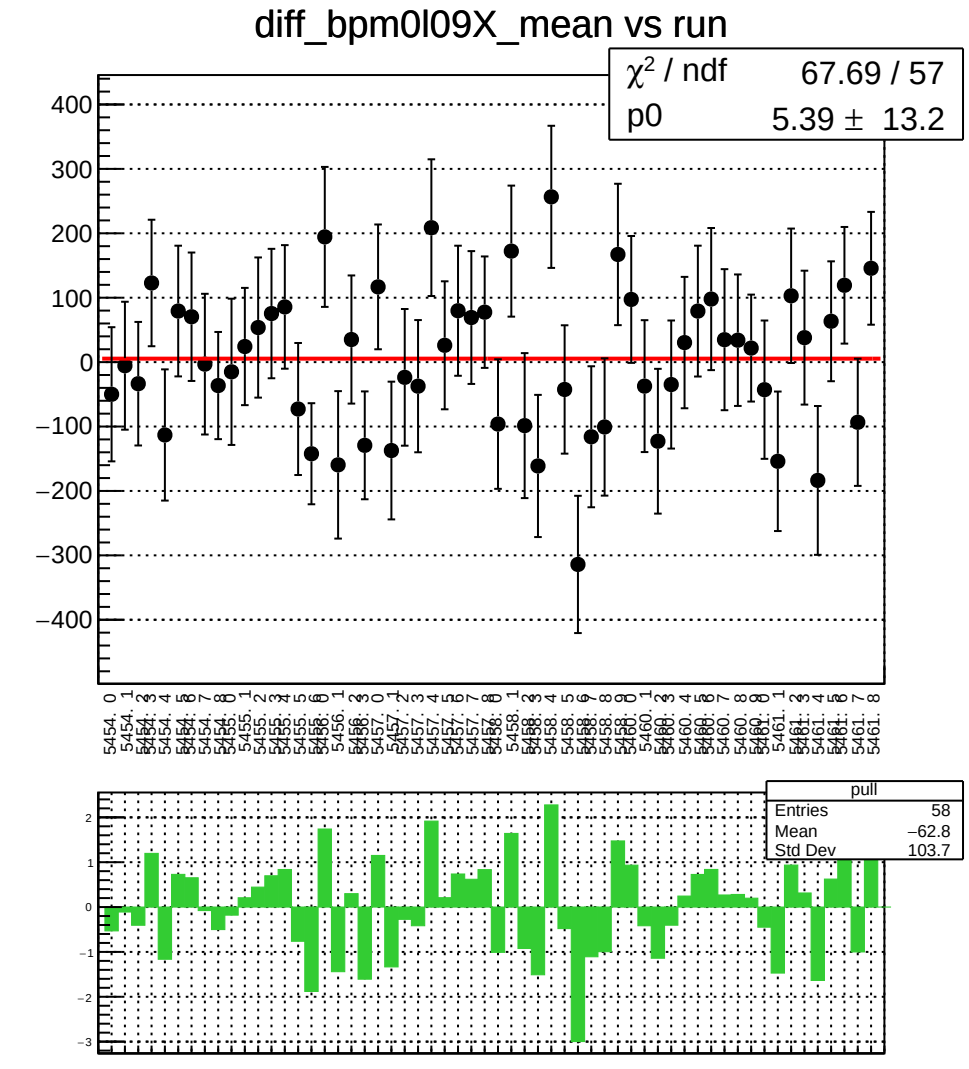

pull1D
Entries 58
Mean −0.00617
Std Dev 1.072

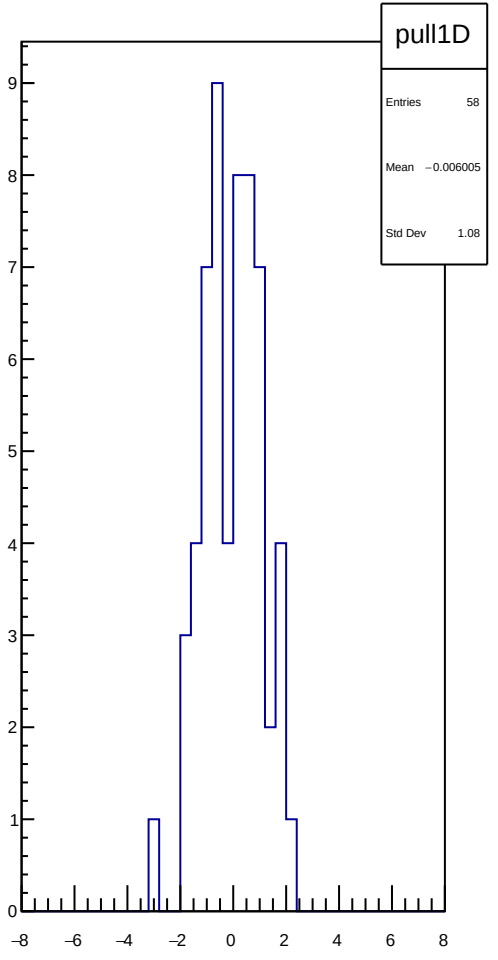

diff_bpm0l08X_rms vs run
χ² / ndf 3406 / 57
p0 9500 ± 9.093
11000
10500
10000
9500
9000
8500

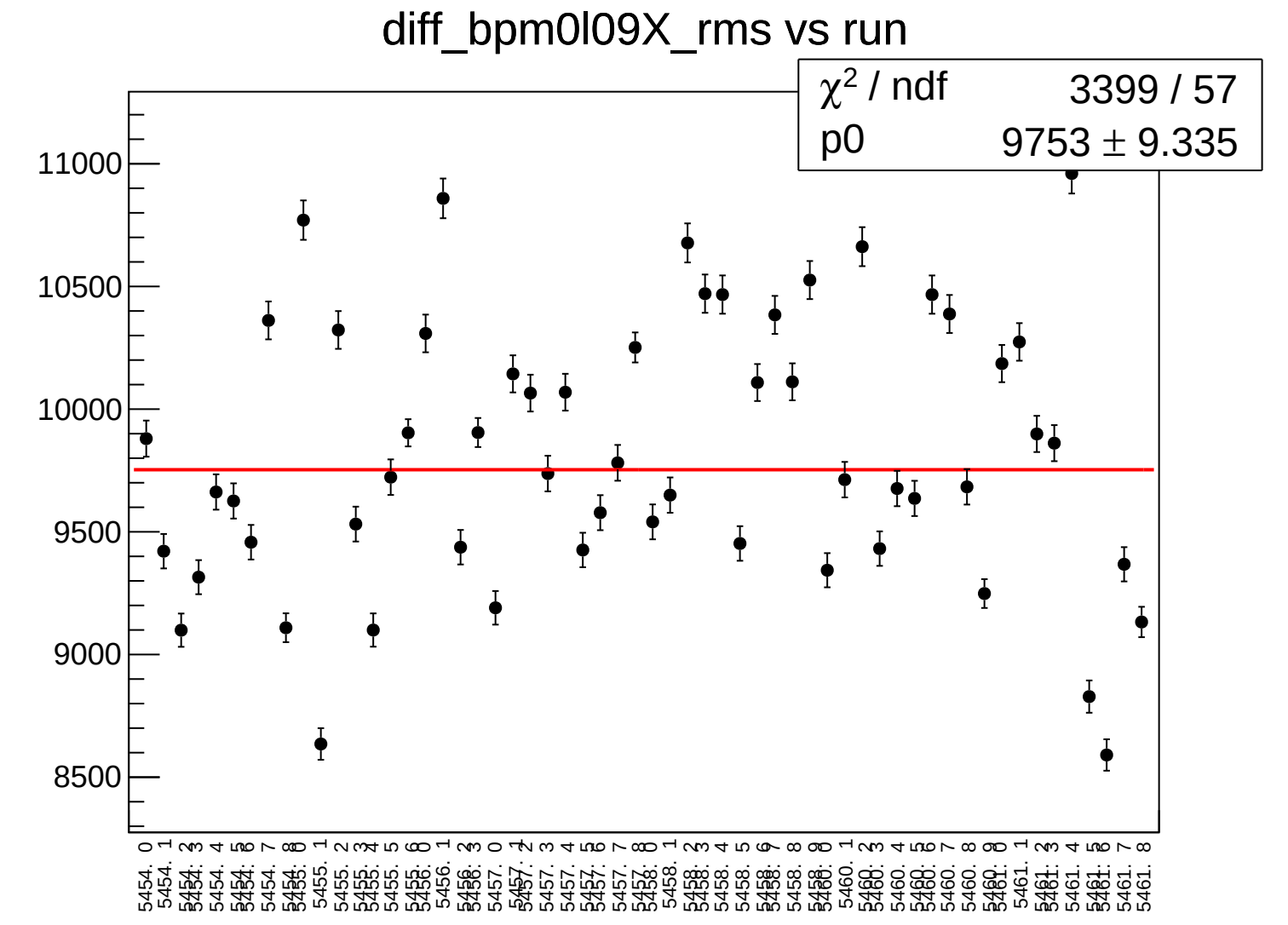

diff_bpm0l08Y_mean vs run
χ² / ndf 78.39 / 57
p0 10.62 ± 1.92
pull
Entries 58
Mean 54.29
Std Dev 17.83

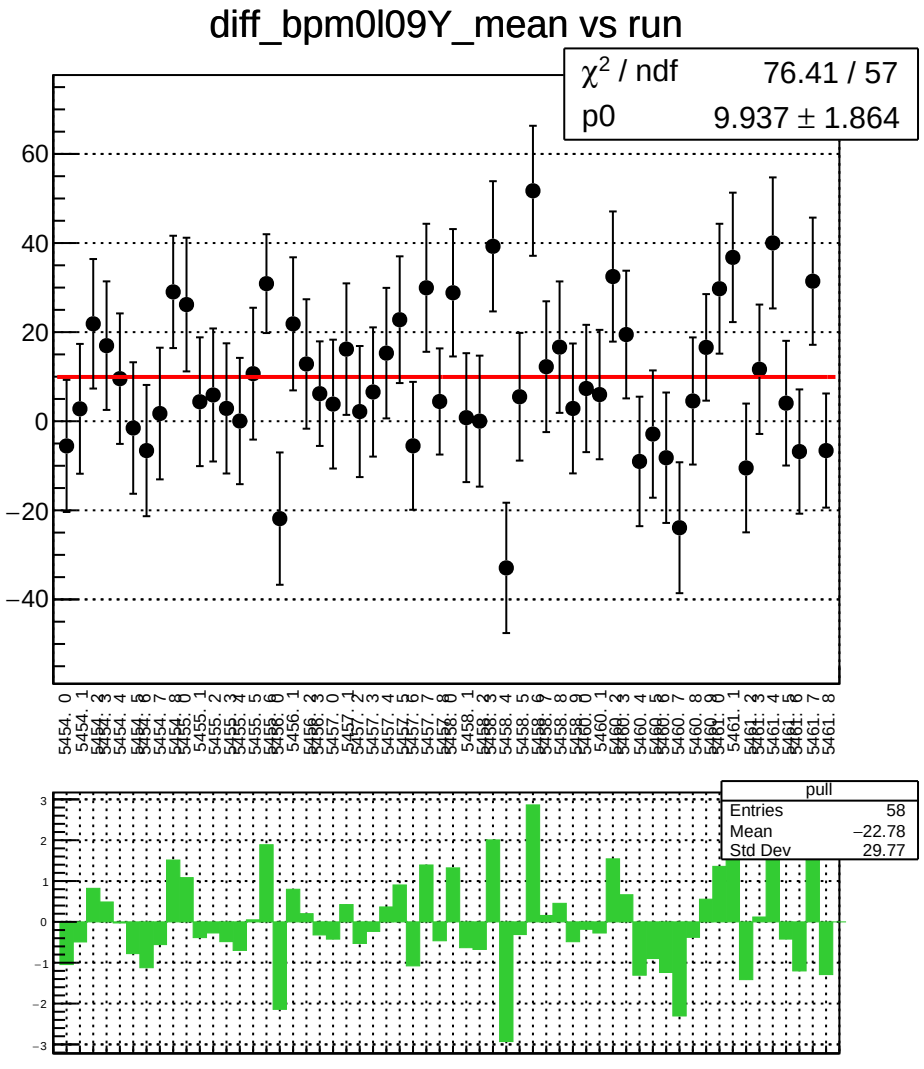

pull1D
Entries 58
Mean −0.01044
Std Dev 1.163

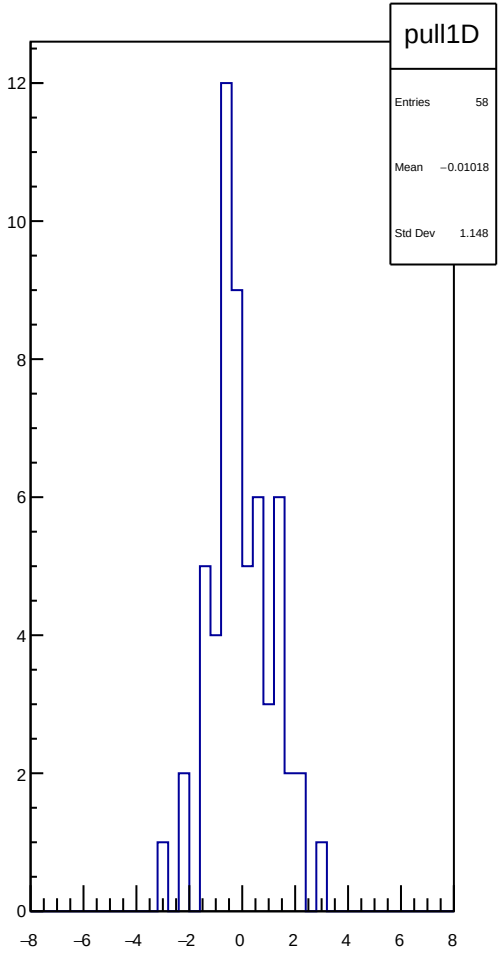

diff_bpm0l08Y_rms vs run
χ² / ndf 296.3 / 57
p0 1421 ± 1.358
1480
1460
1440
1420
1400
1380
1360
1340

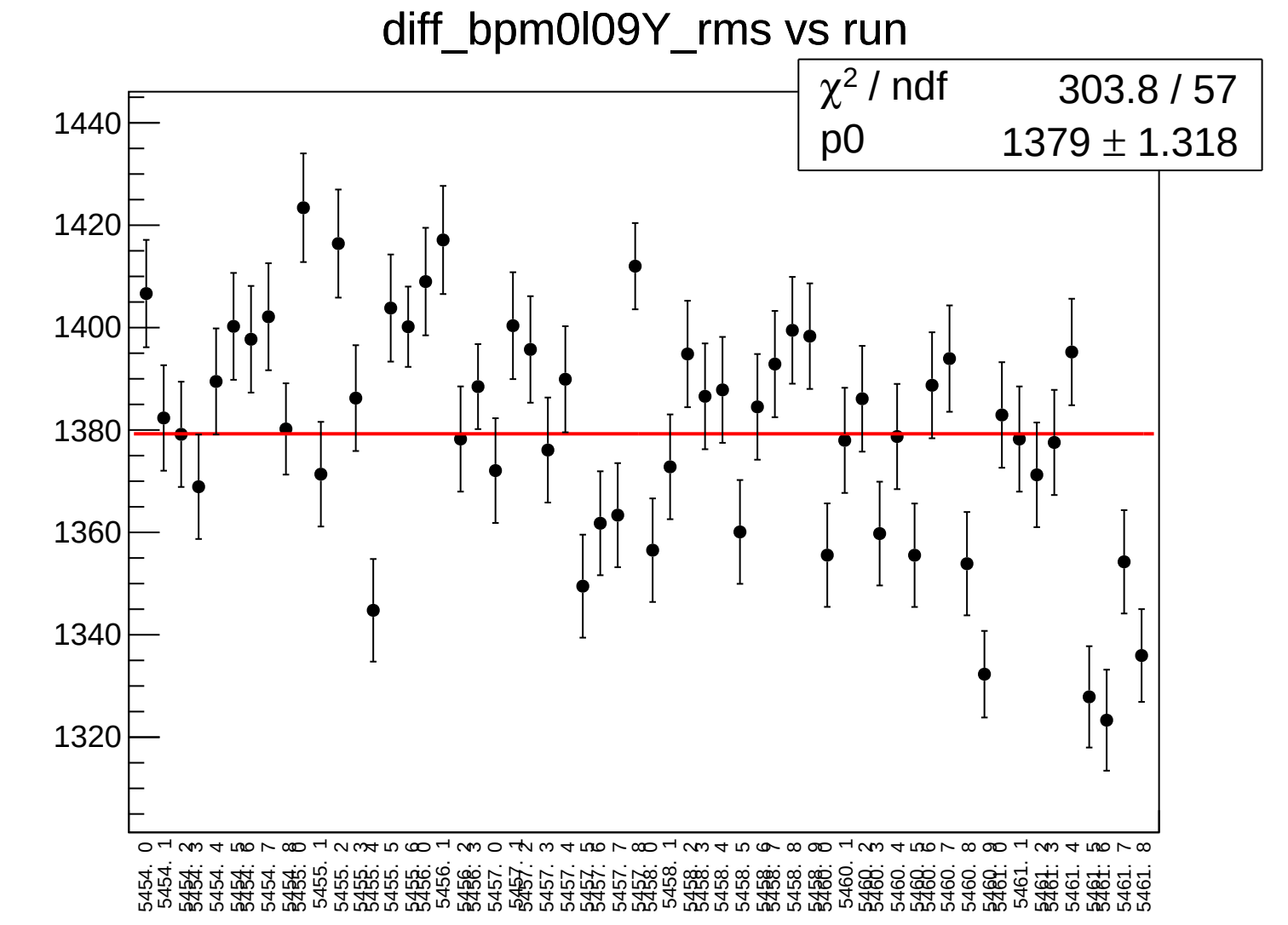

diff_bpm0l09X_mean vs run
χ² / ndf 67.69 / 57
p0 5.39 ± 13.2
pull
Entries 58
Mean −62.8
Std Dev 103.7

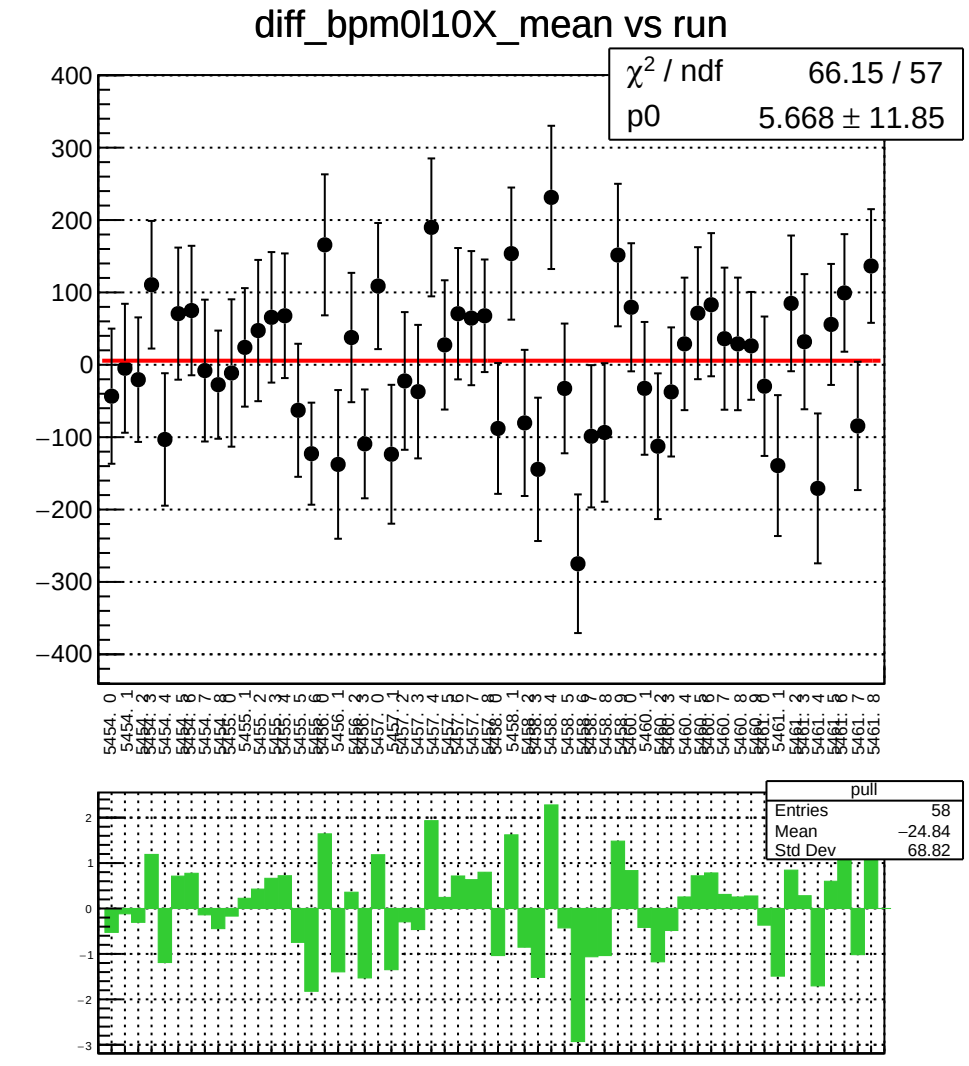

pull1D
Entries 58
Mean −0.006005
Std Dev 1.08

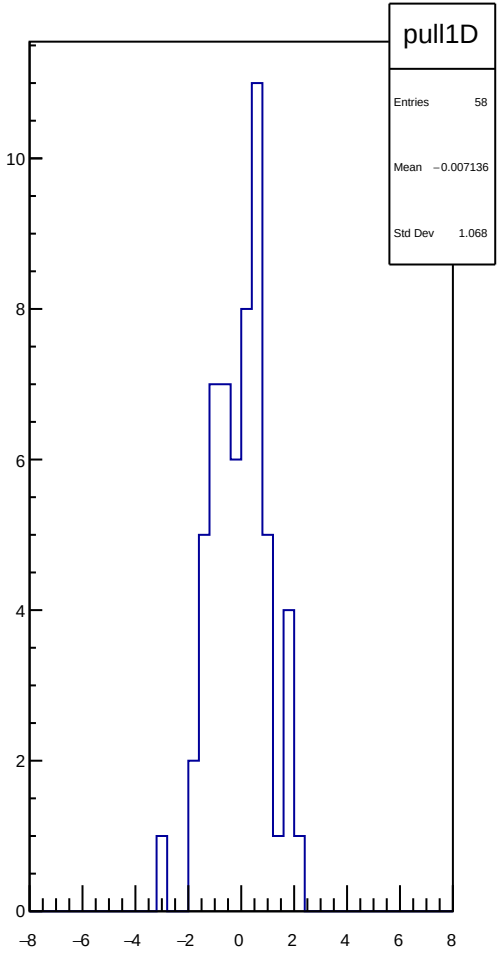

diff_bpm0l09X_rms vs run
χ² / ndf 3399 / 57
p0 9753 ± 9.335
11000
10500
10000
9500
9000
8500

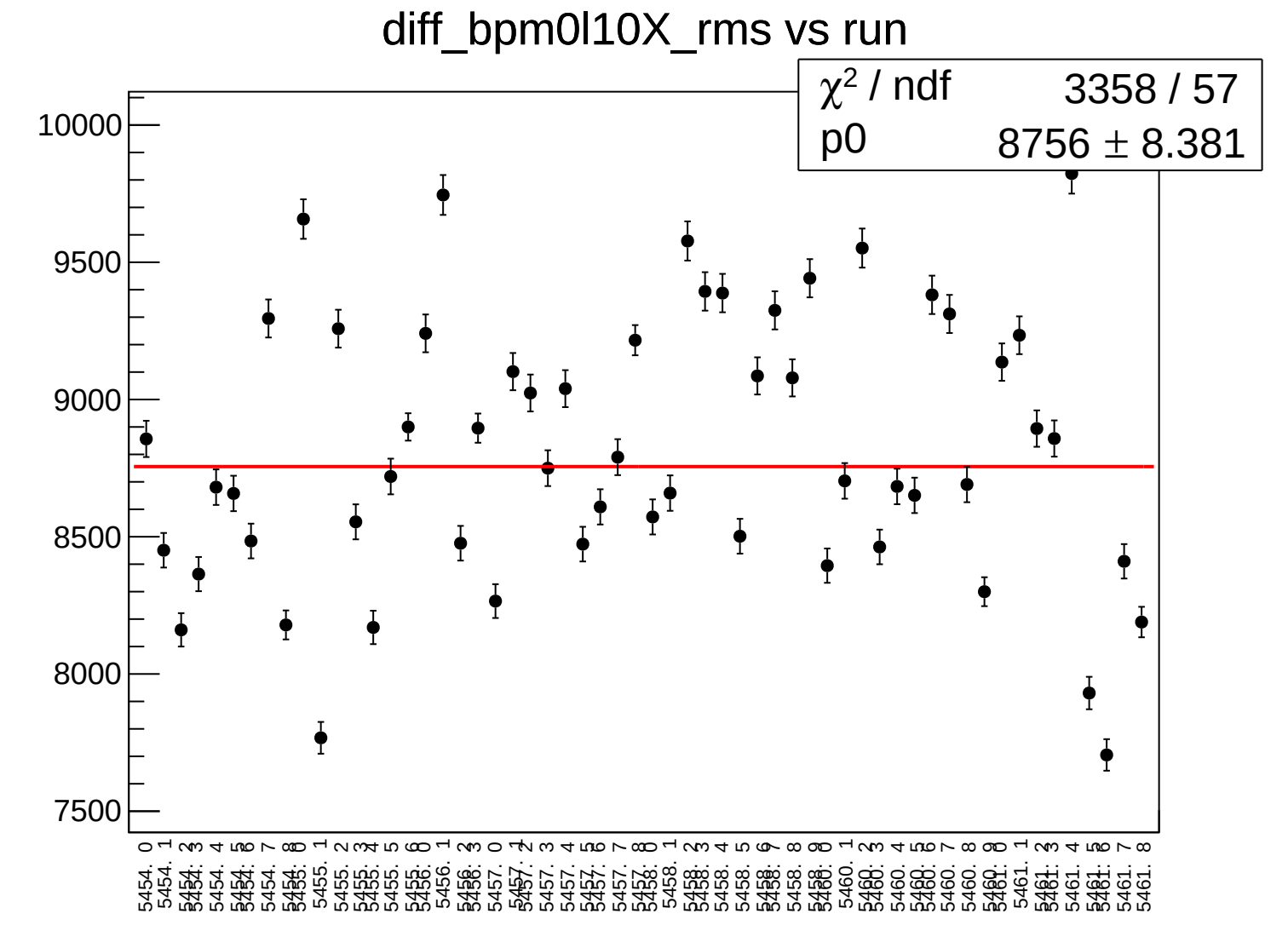

diff_bpm0l09Y_mean vs run
χ² / ndf 76.41 / 57
p0 9.937 ± 1.864
pull
Entries 58
Mean −22.78
Std Dev 29.77

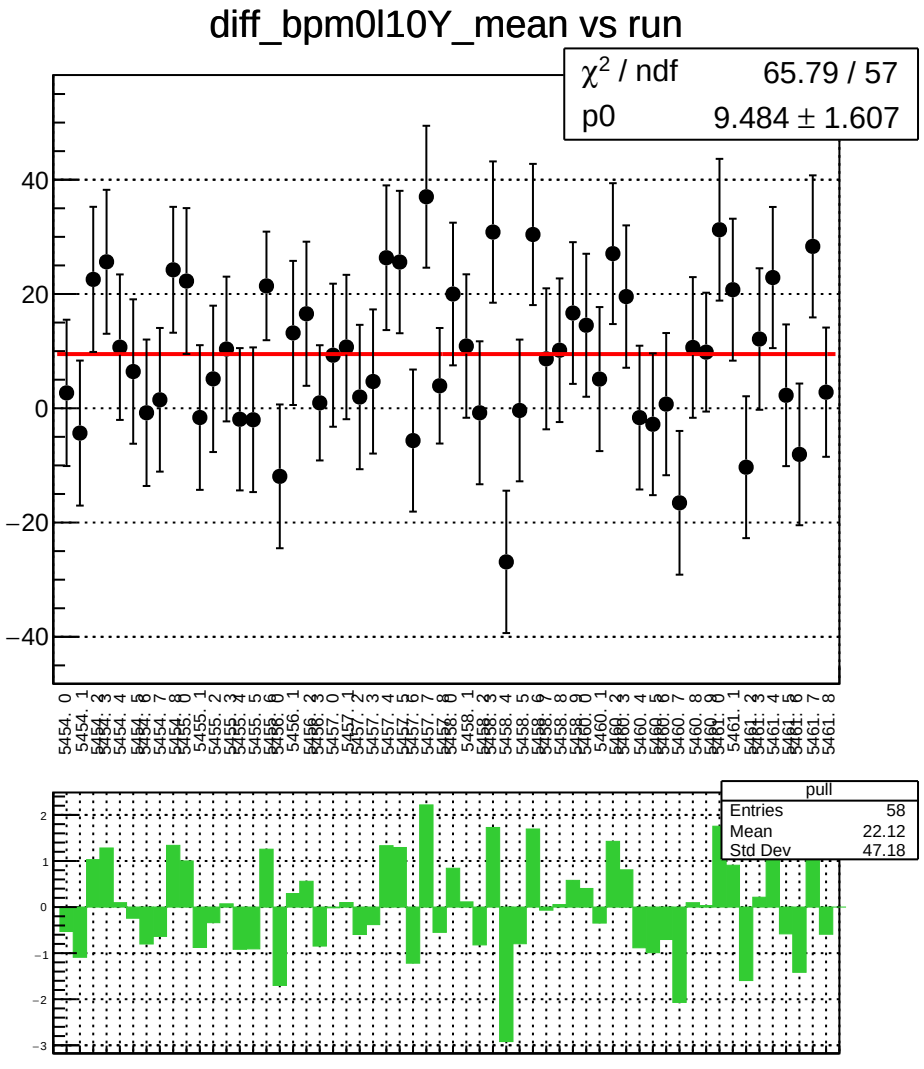

pull1D
Entries 58
Mean −0.01018
Std Dev 1.148

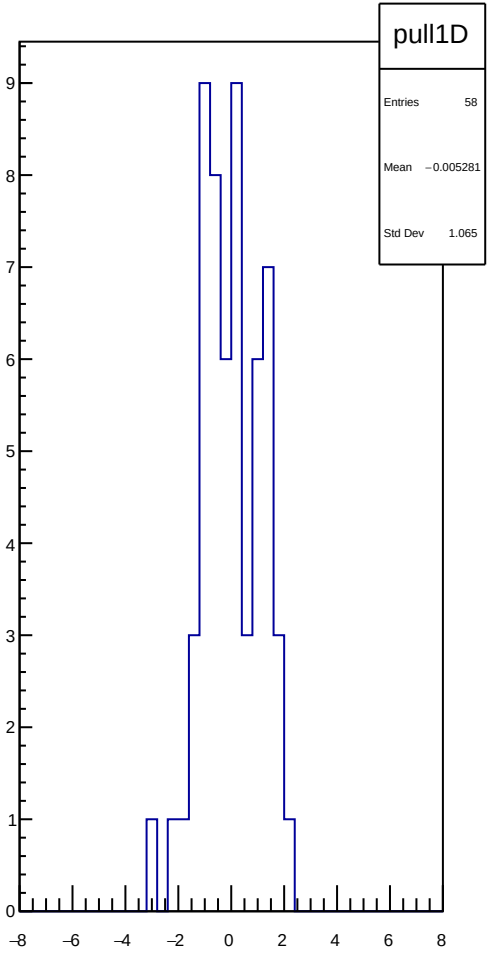

diff_bpm0l09Y_rms vs run
χ² / ndf 303.8 / 57
p0 1379 ± 1.318
1440
1420
1400
1380
1360
1340
1320

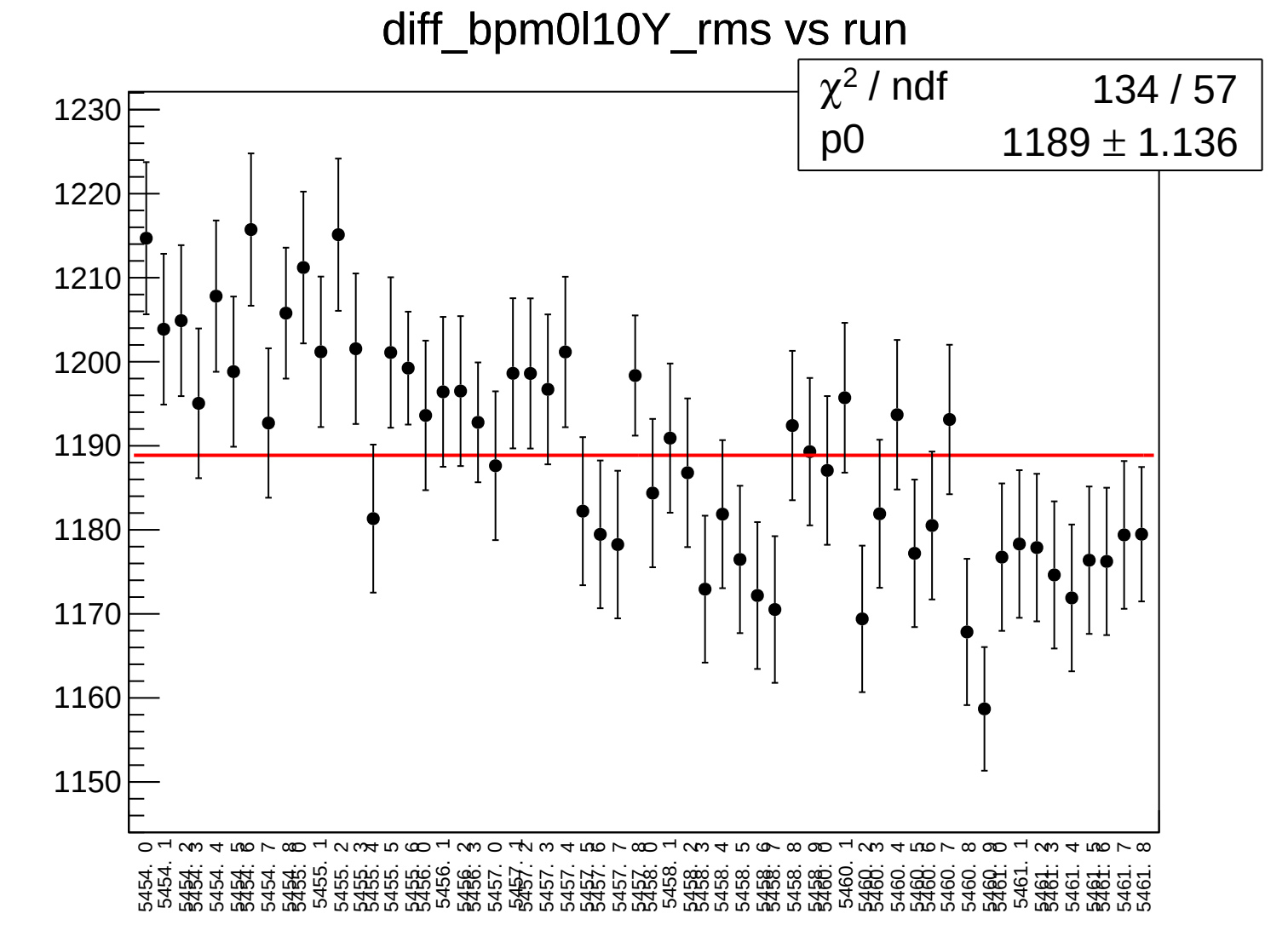

diff_bpm0l10X_mean vs run
χ² / ndf 66.15 / 57
p0 5.668 ± 11.85
pull
Entries 58
Mean −24.84
Std Dev 68.82

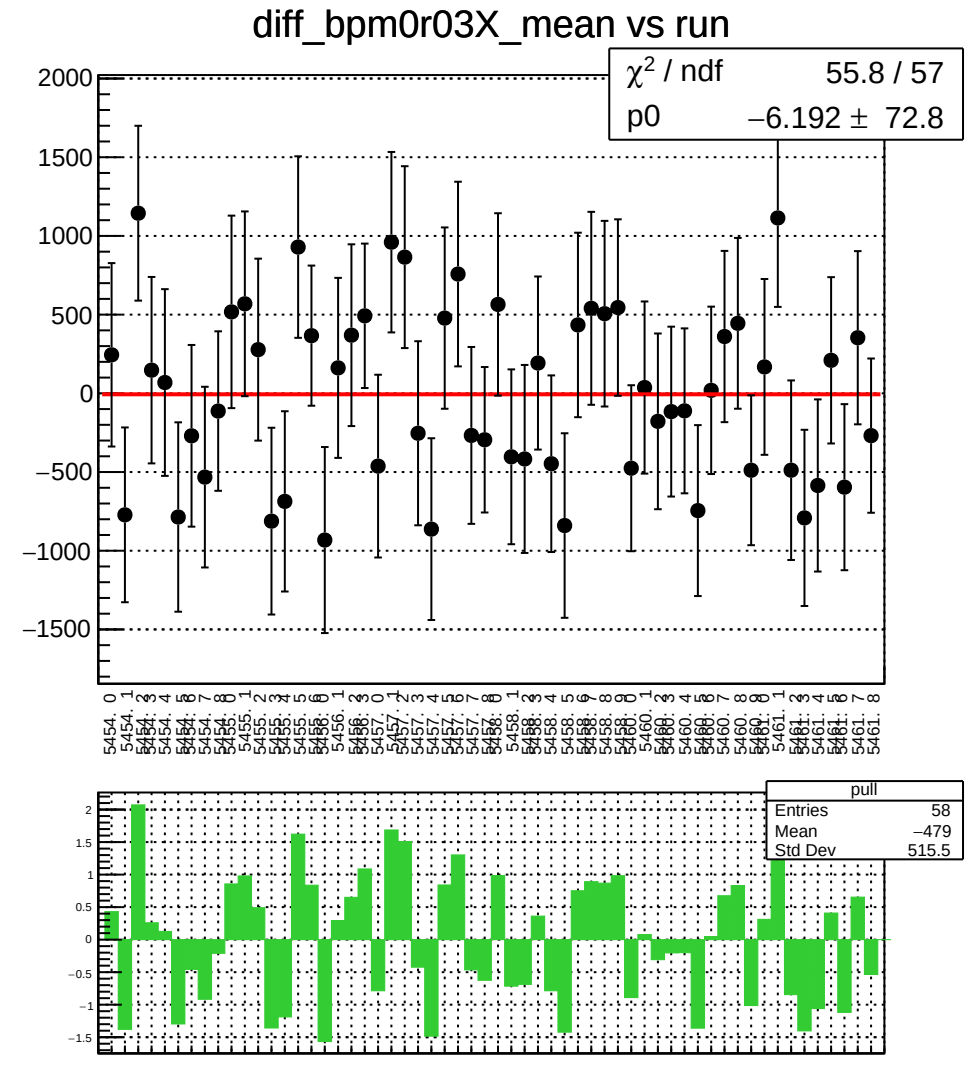

pull1D
Entries 58
Mean −0.007136
Std Dev 1.068

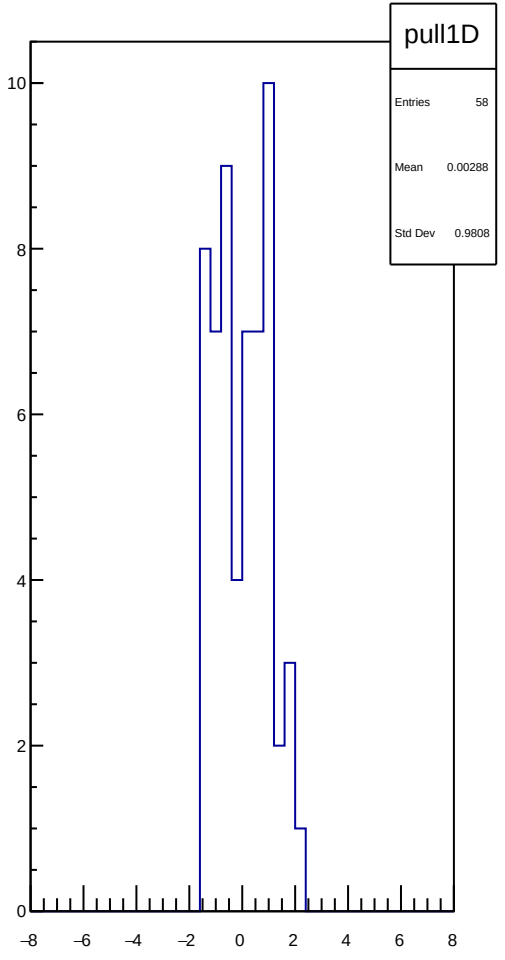

diff_bpm0l10X_rms vs run
χ² / ndf 3358 / 57
p0 8756 ± 8.381
10000
9500
9000
8500
8000
7500

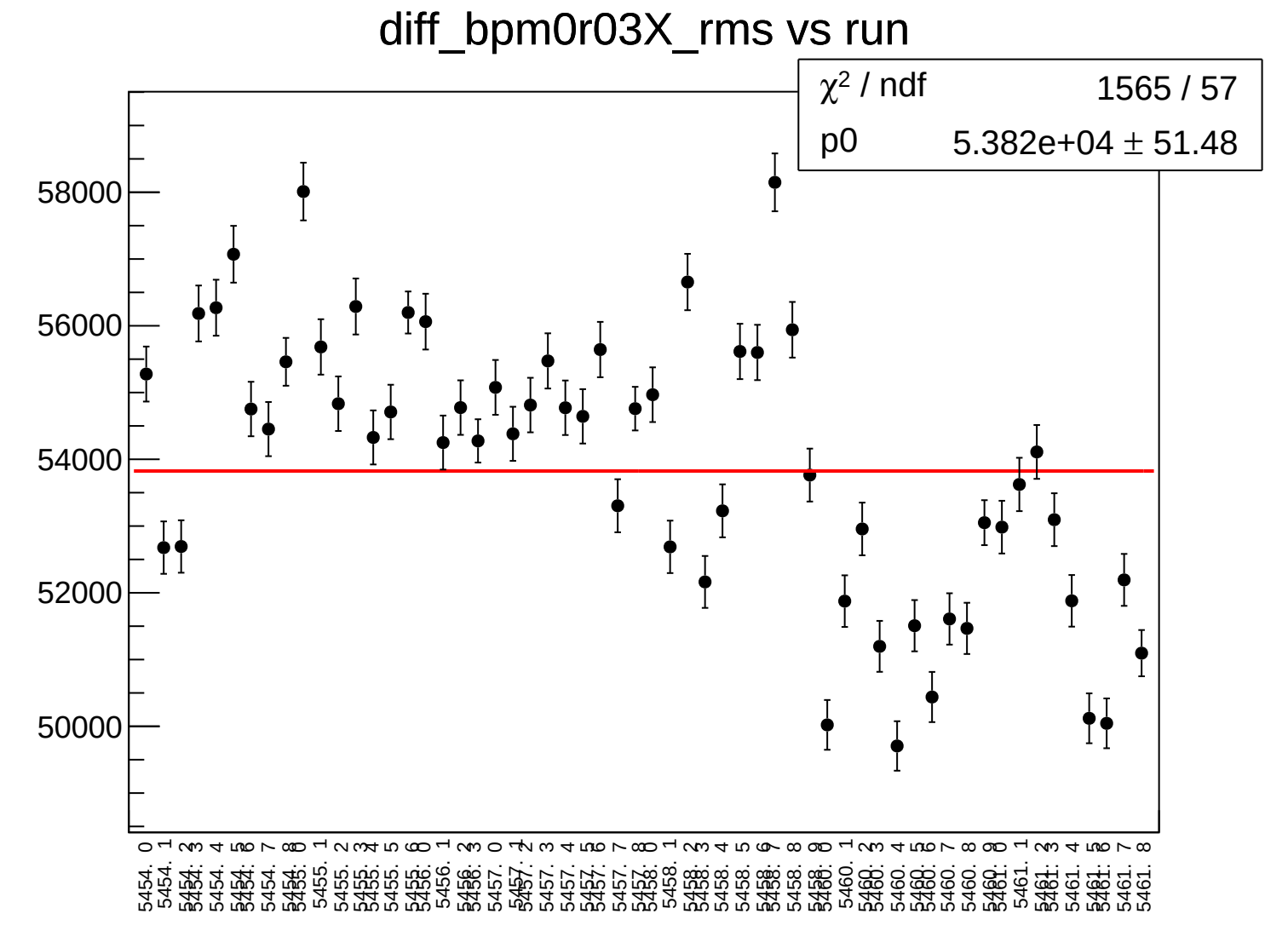

diff_bpm0l10Y_mean vs run
χ^2 / ndf 65.79 / 57
p0 9.484 ± 1.607
pull
Entries 58
Mean 22.12
Std Dev 47.18

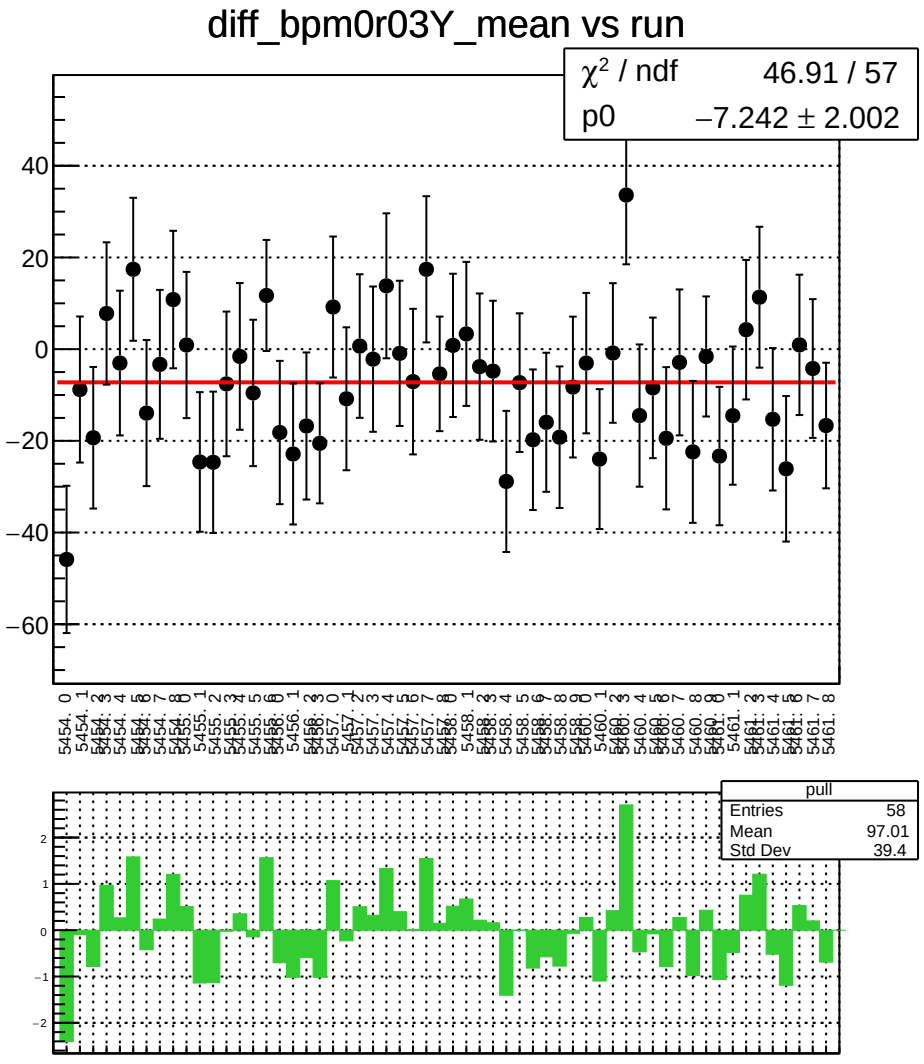

pull1D
Entries 58
Mean −0.005281
Std Dev 1.065

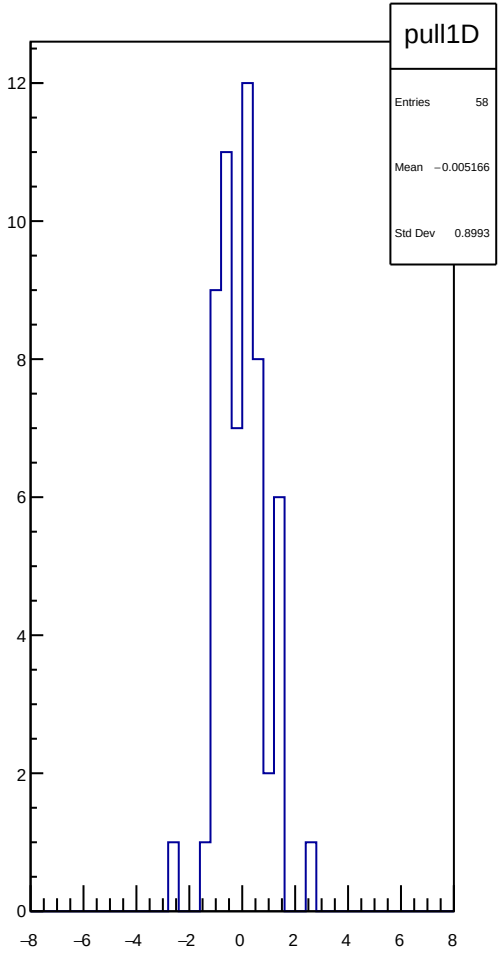

diff_bpm0l10Y_rms vs run
χ² / ndf 134 / 57
p0 1189 ± 1.136
1230
1220
1210
1200
1190
1180
1170
1160
1150

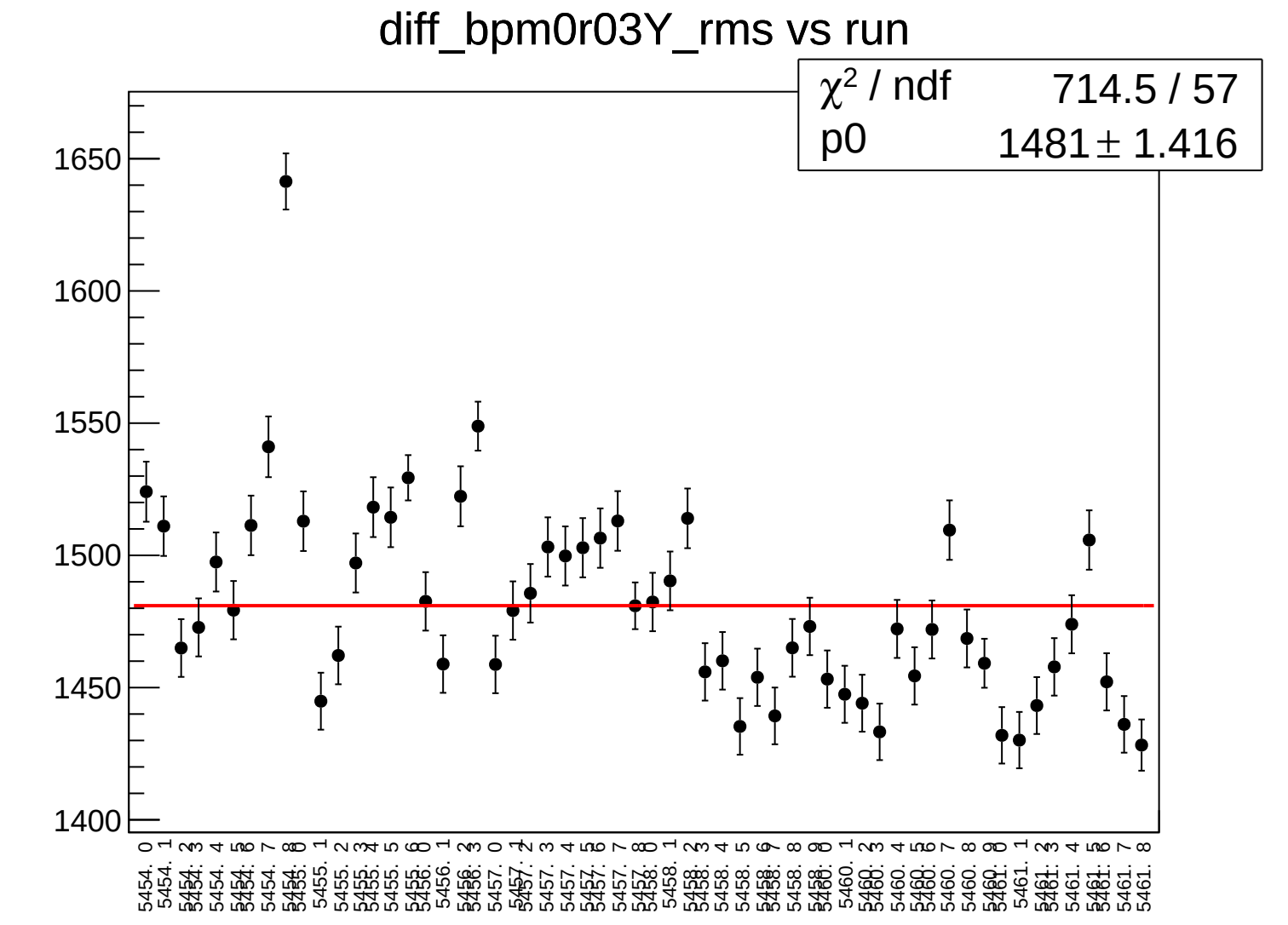

diff_bpm0r03X_mean vs run
χ² / ndf 55.8 / 57
p0 −6.192 ± 72.8
pull
Entries 58
Mean −479
Std Dev 515.5

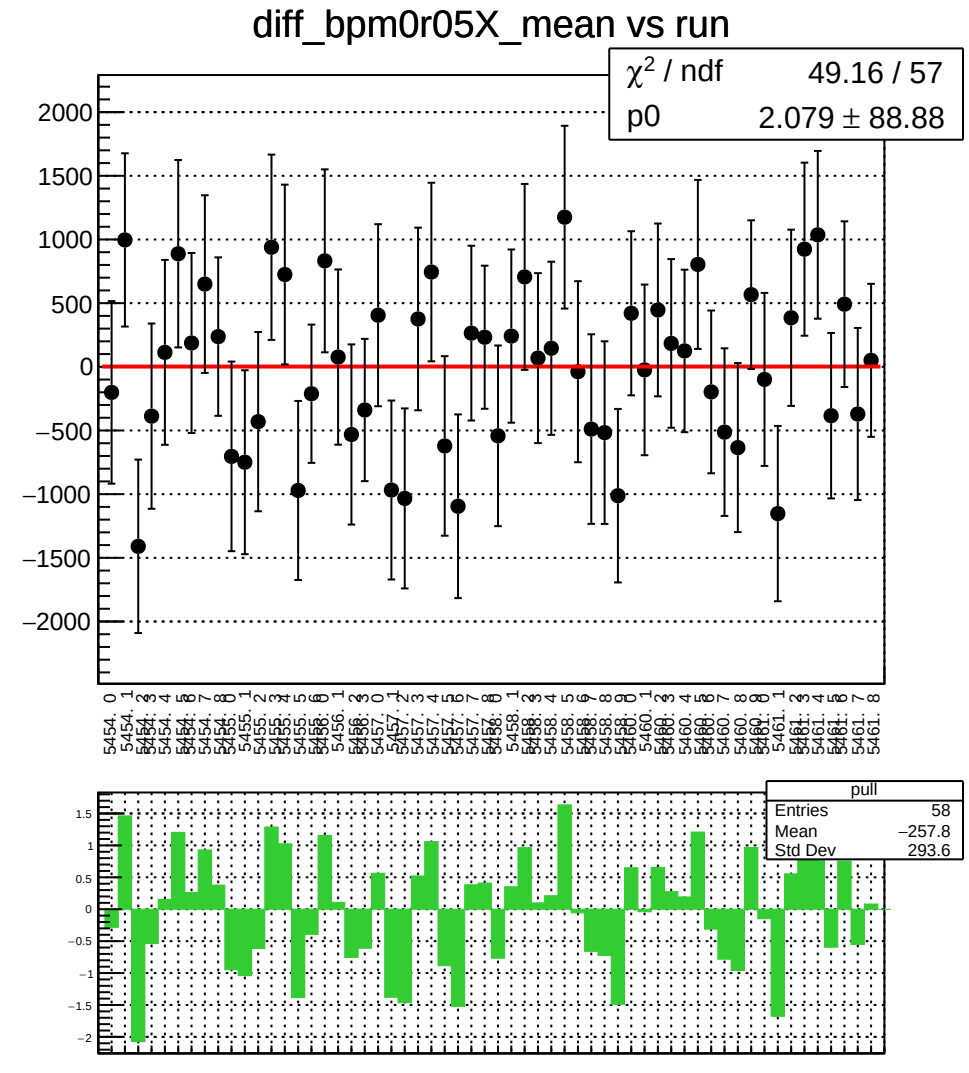

pull1D
Entries 58
Mean 0.00288
Std Dev 0.9808

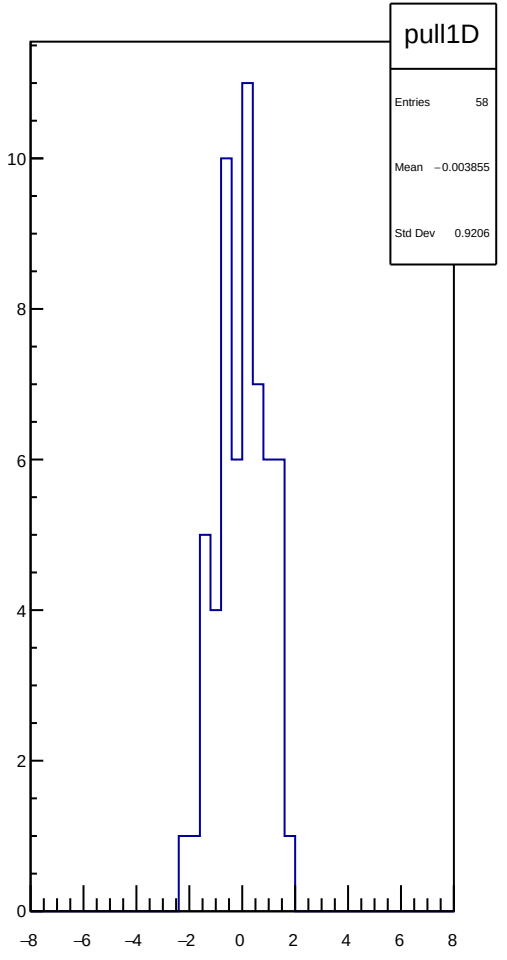

diff_bpm0r03X_rms vs run
χ² / ndf 1565 / 57
p0 5.382e+04 ± 51.48
58000
56000
54000
52000
50000

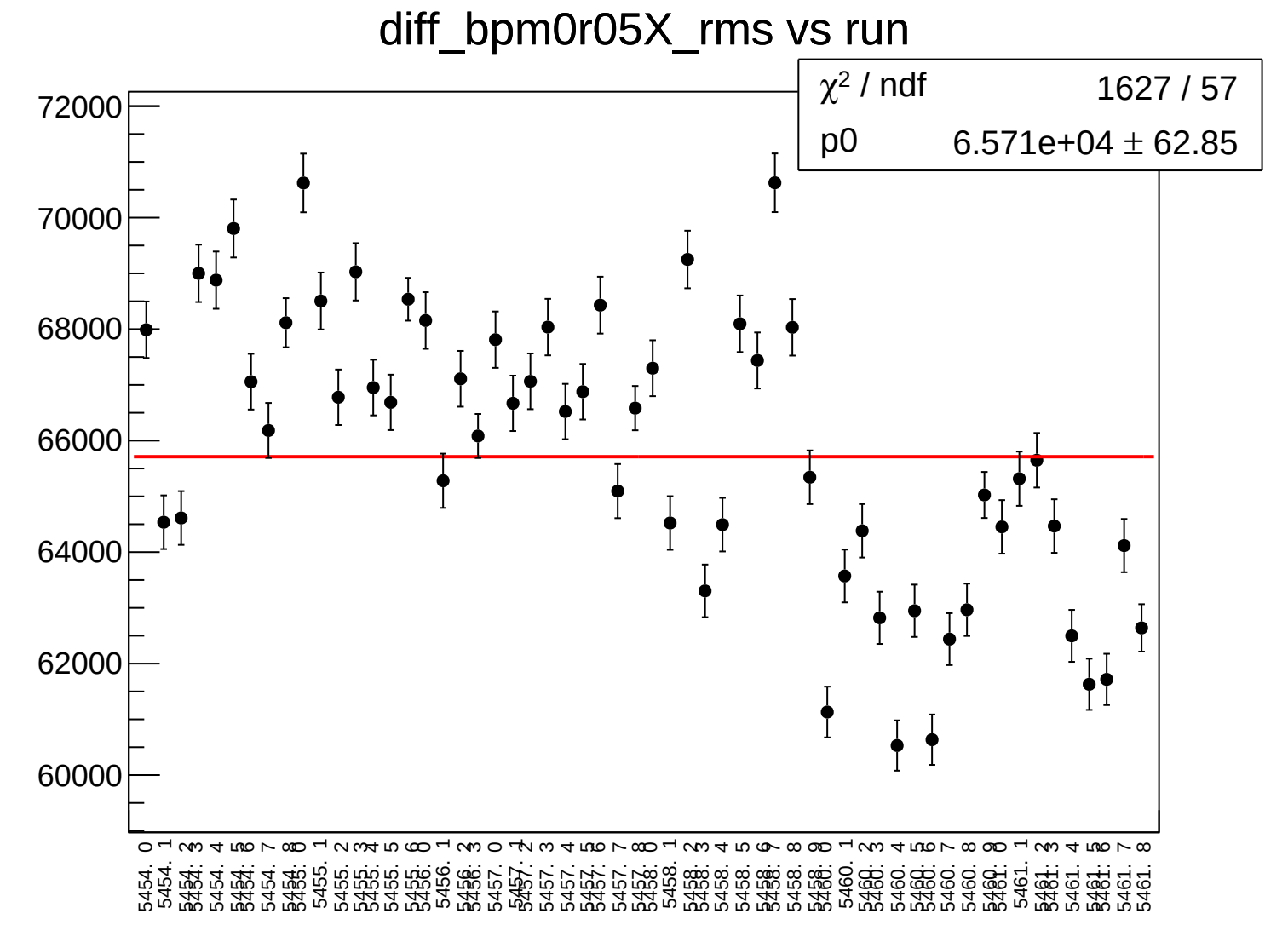

diff_bpm0r03Y_mean vs run
χ² / ndf 46.91 / 57
p0 −7.242 ± 2.002
pull
Entries 58
Mean 97.01
Std Dev 39.4

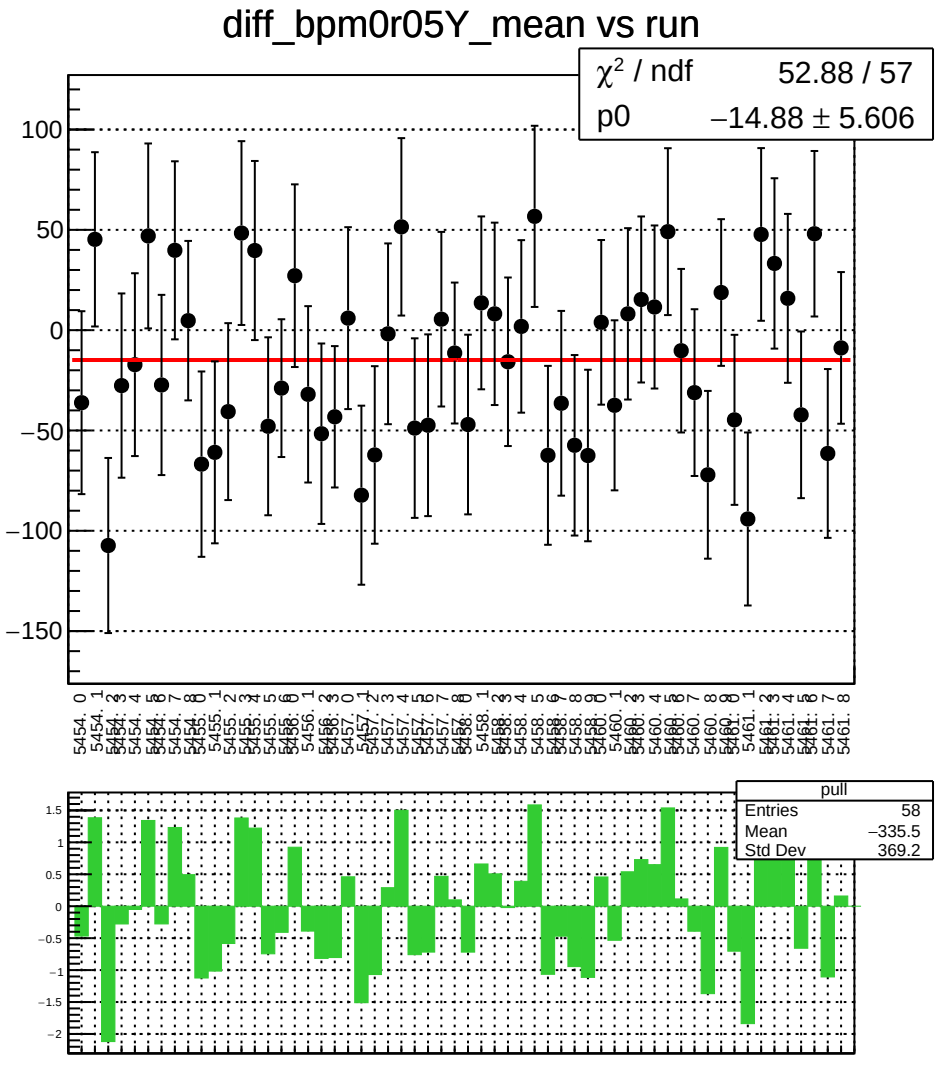

pull1D
Entries 58
Mean −0.005166
Std Dev 0.8993

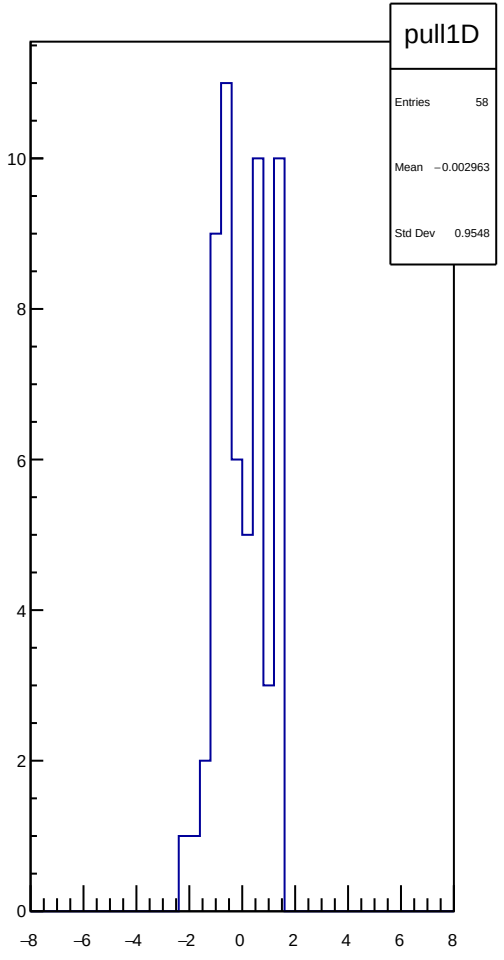

diff_bpm0r03Y_rms vs run
χ² / ndf 714.5 / 57
p0 1481 ± 1.416
1650
1600
1550
1500
1450
1400

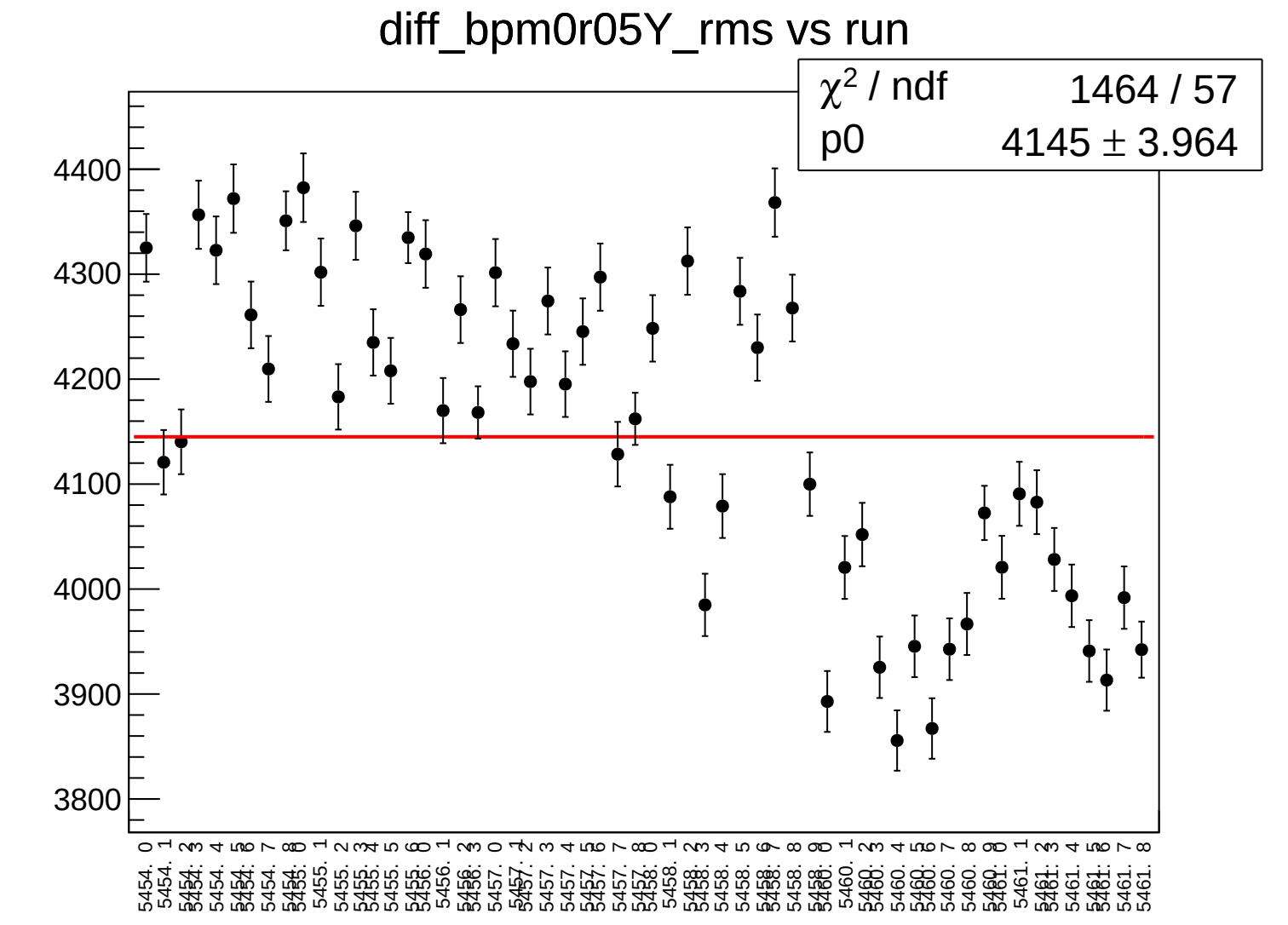

diff_bpm0r05X_mean vs run
χ² / ndf 49.16 / 57
p0 2.079 ± 88.88
pull
Entries 58
Mean −257.8
Std Dev 293.6

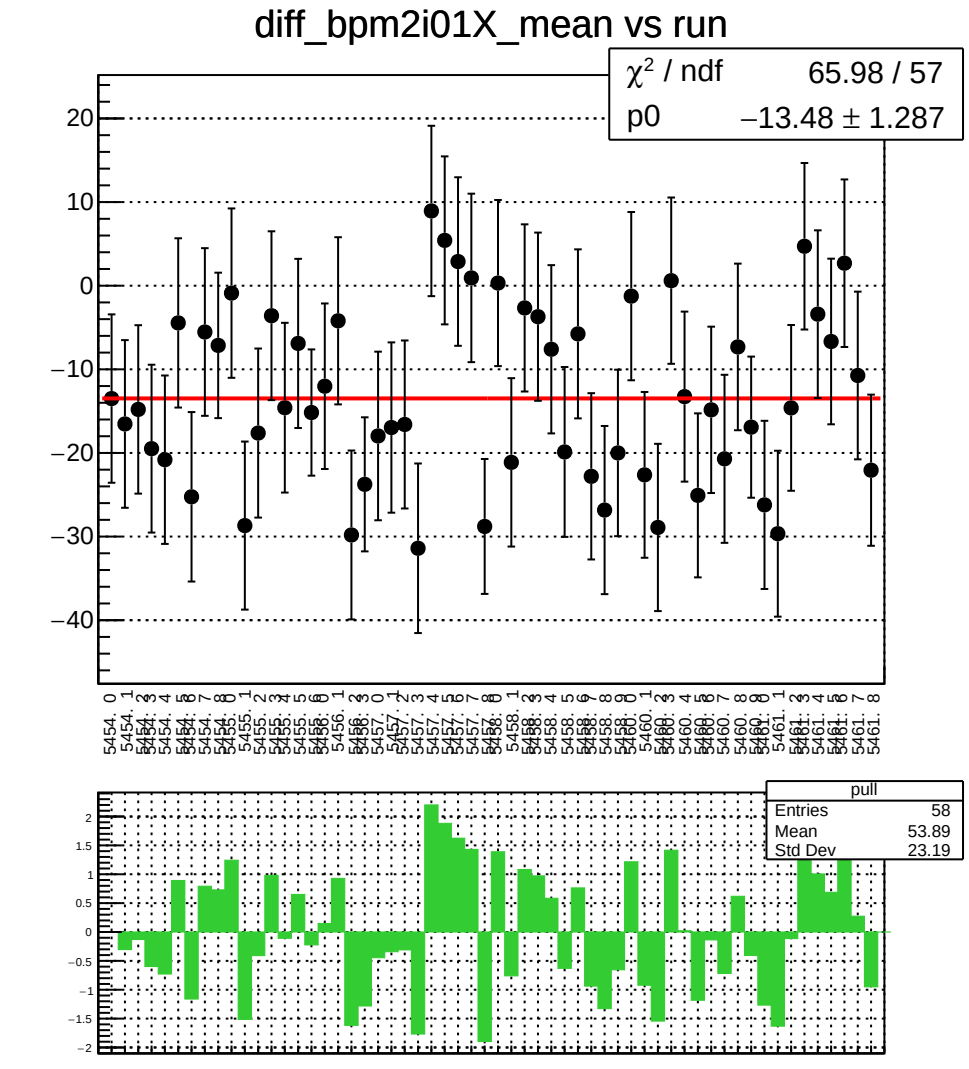

pull1D
Entries 58
Mean −0.003855
Std Dev 0.9206

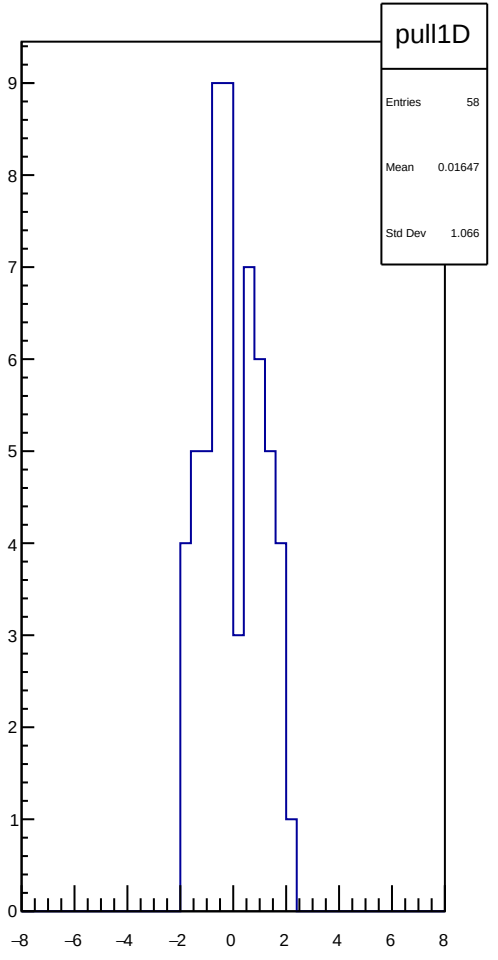

diff_bpm0r05X_rms vs run
χ² / ndf 1627 / 57
p0 6.571e+04 ± 62.85
72000
70000
68000
66000
64000
62000
60000

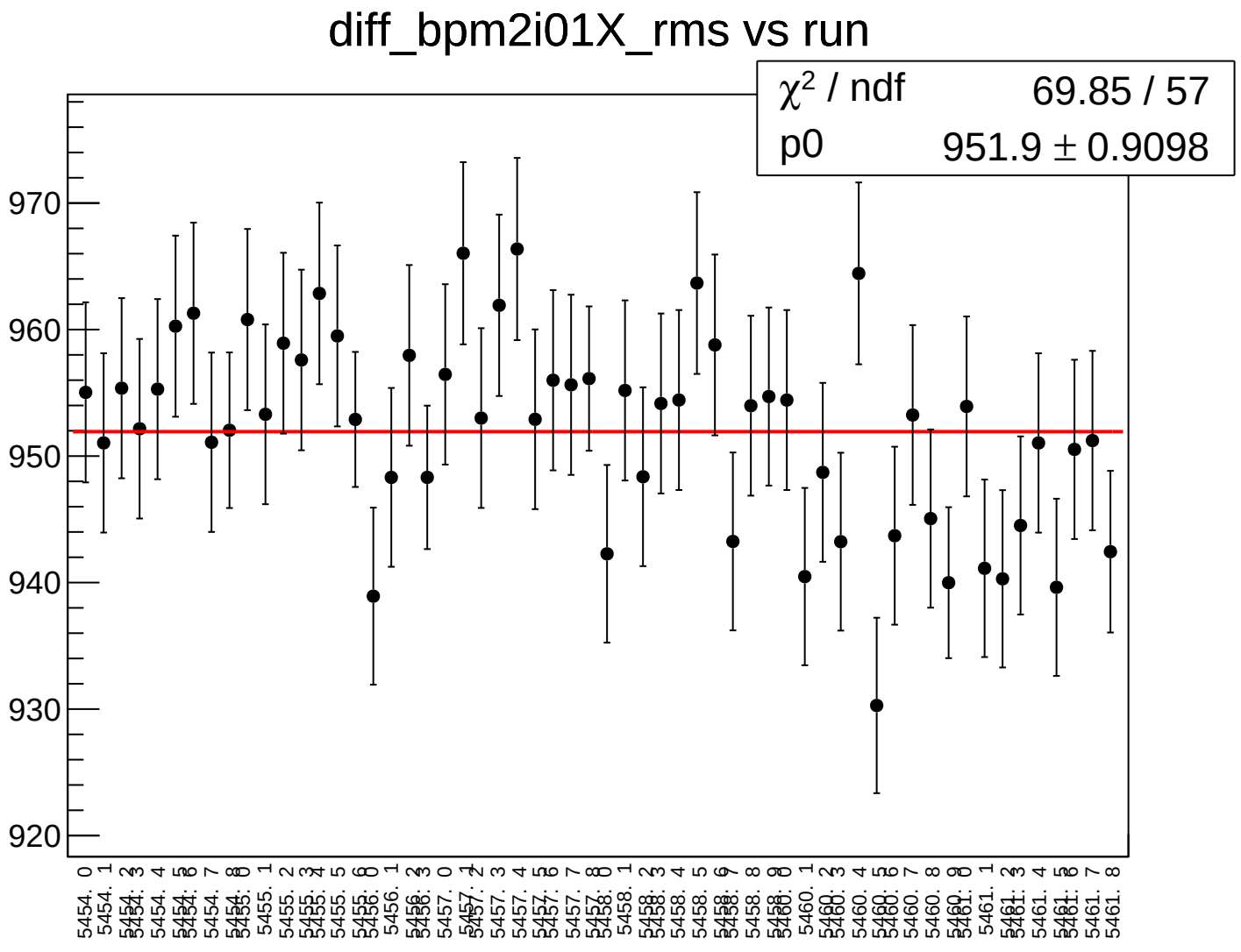

diff_bpm0r05Y_mean vs run
χ² / ndf 52.88 / 57
p0 −14.88 ± 5.606
100
50
0
−50
−100
−150
pull
Entries 58
Mean −335.5
Std Dev 369.2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

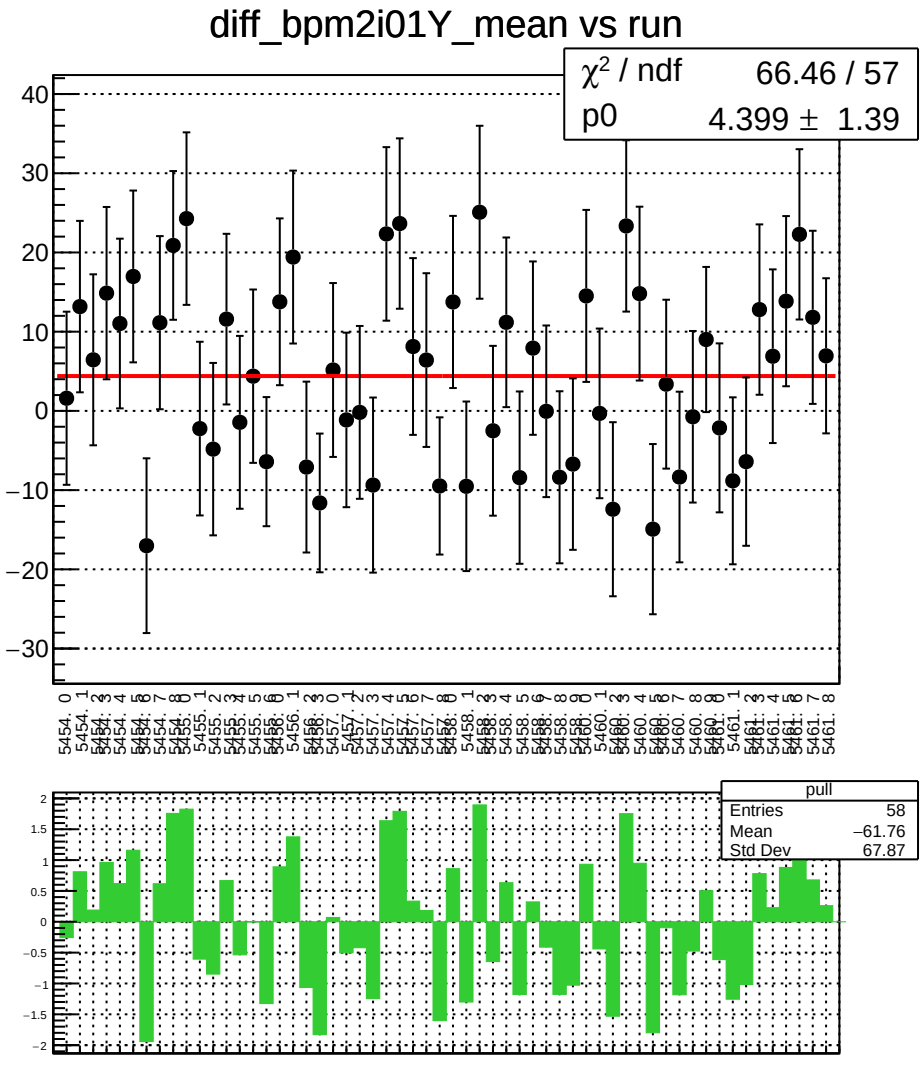

pull1D
Entries 58
Mean −0.002963
Std Dev 0.9548
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

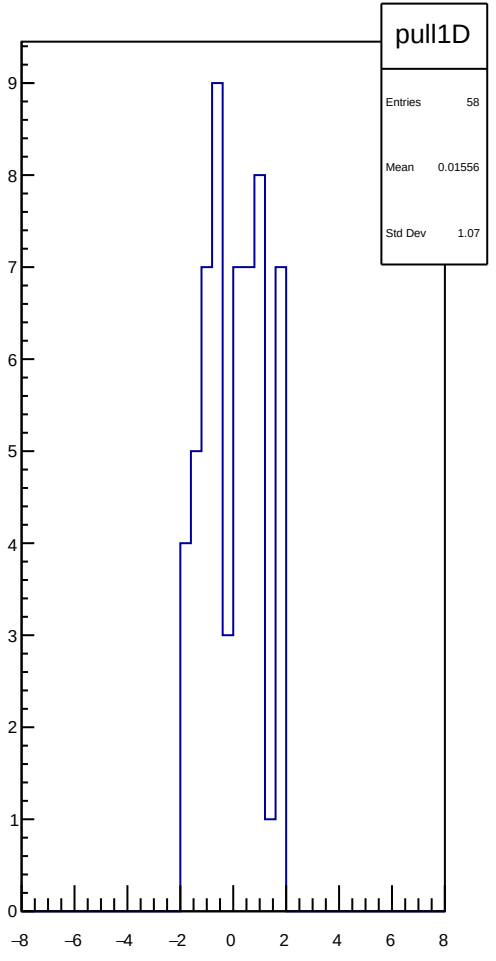

diff_bpm0r05Y_rms vs run
χ² / ndf 1464 / 57
p0 4145 ± 3.964
4400
4300
4200
4100
4000
3900
3800

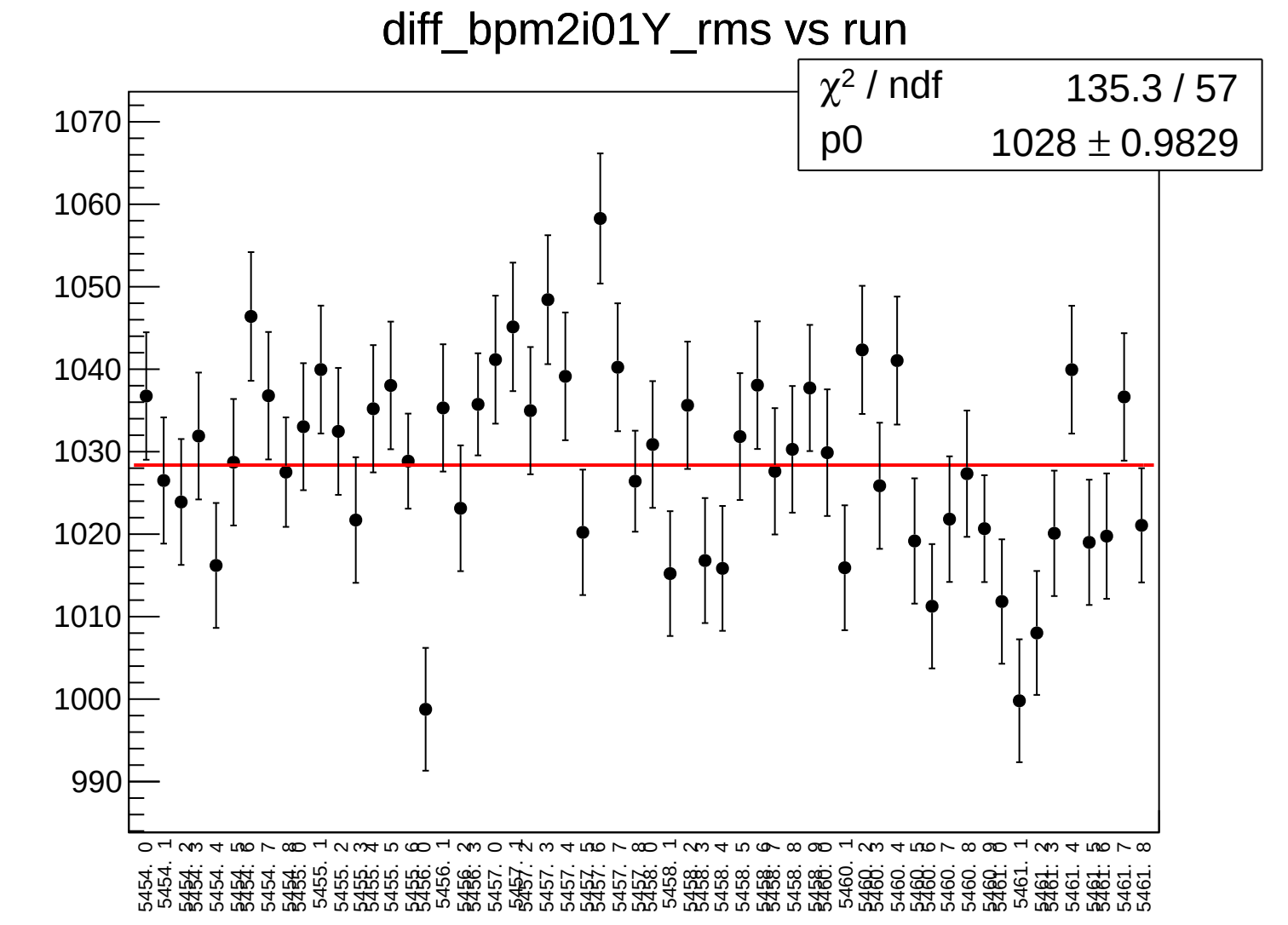

diff_bpm2i01X_mean vs run
χ² / ndf 65.98 / 57
p0 −13.48 ± 1.287
pull
Entries 58
Mean 53.89
Std Dev 23.19

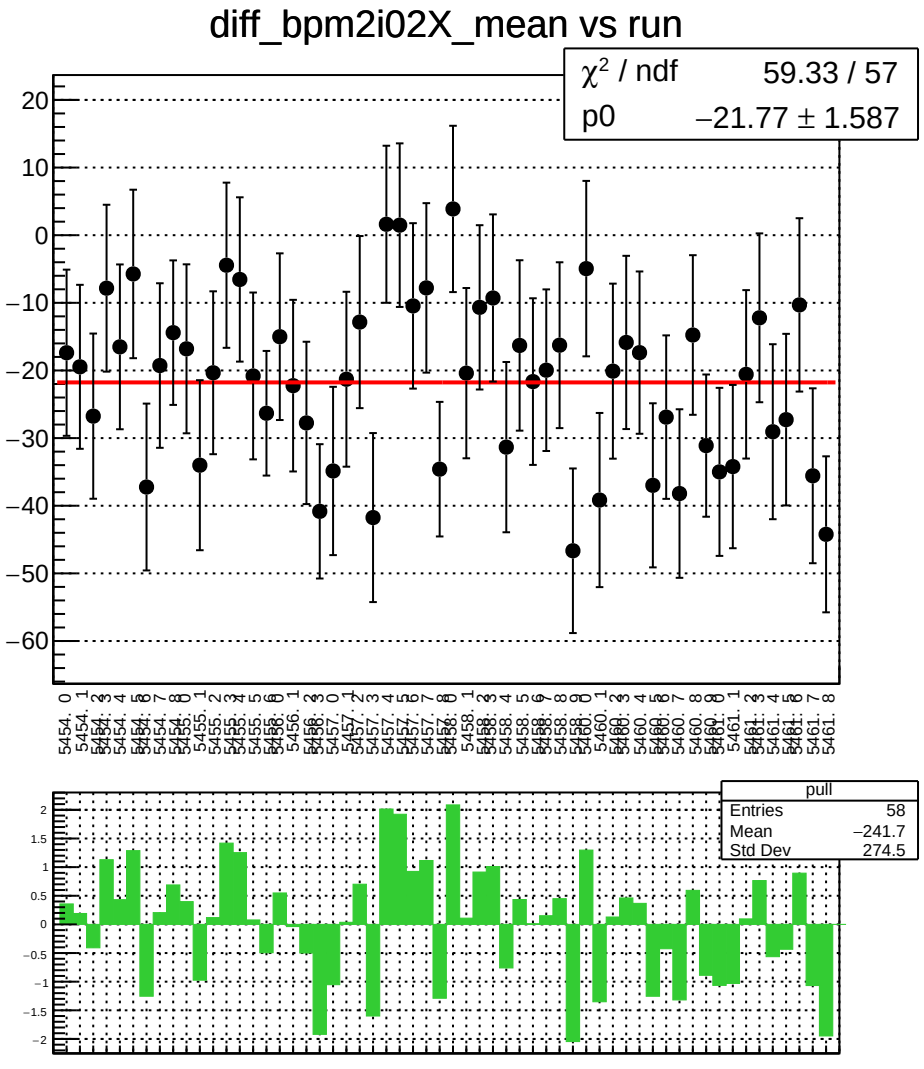

pull1D
Entries 58
Mean 0.01647
Std Dev 1.066

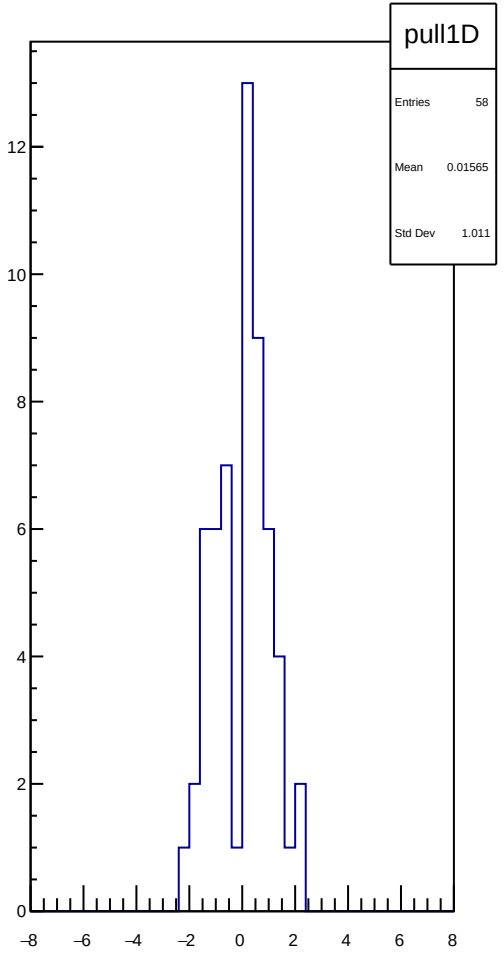

diff_bpm2i01X_rms vs run
χ^2 / ndf 69.85 / 57
p0 951.9 ± 0.9098
970
960
950
940
930
920
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5456. 4
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

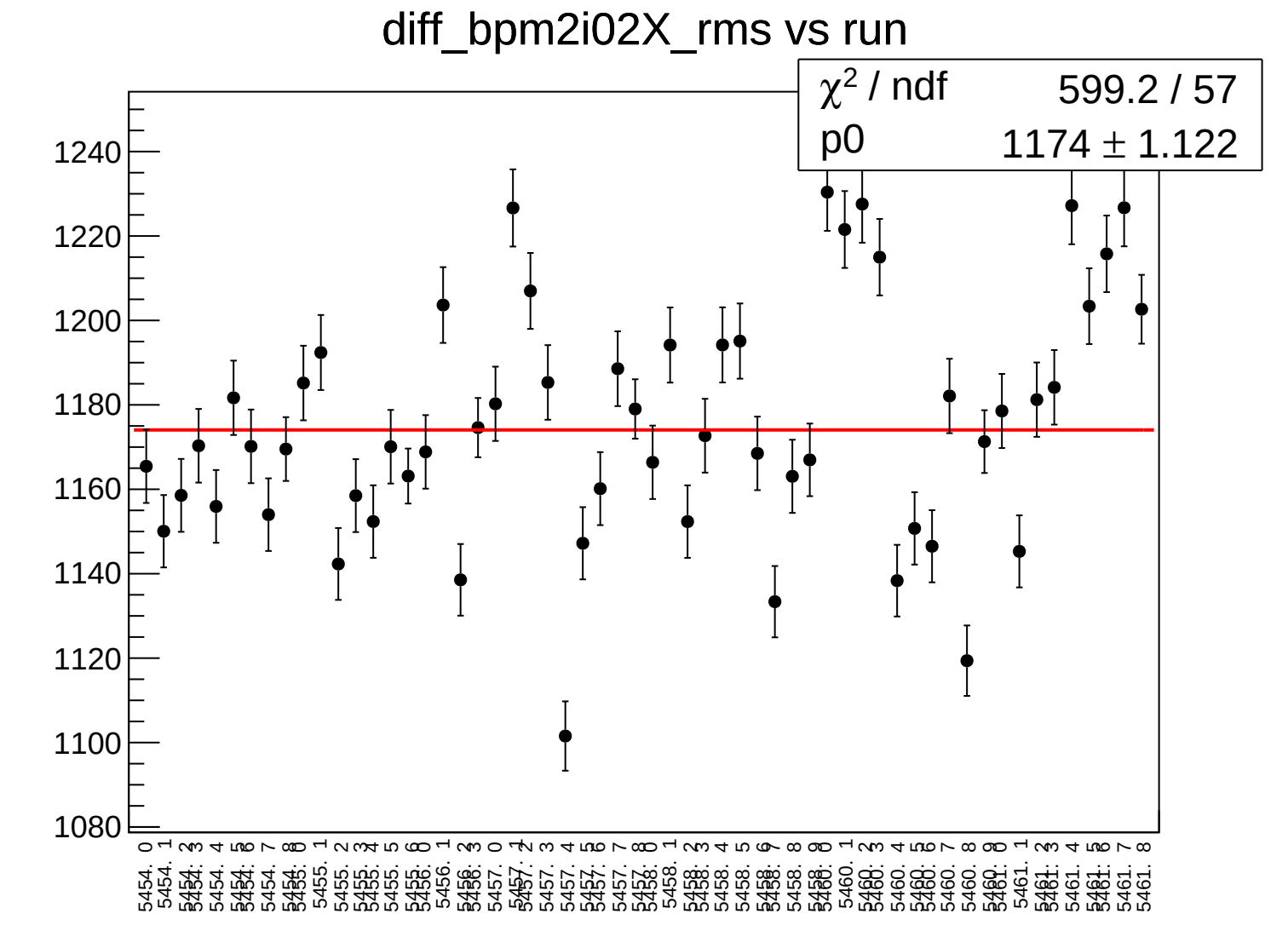

diff_bpm2i01Y_mean vs run
χ² / ndf 66.46 / 57
p0 4.399 ± 1.39
pull
Entries 58
Mean −61.76
Std Dev 67.87

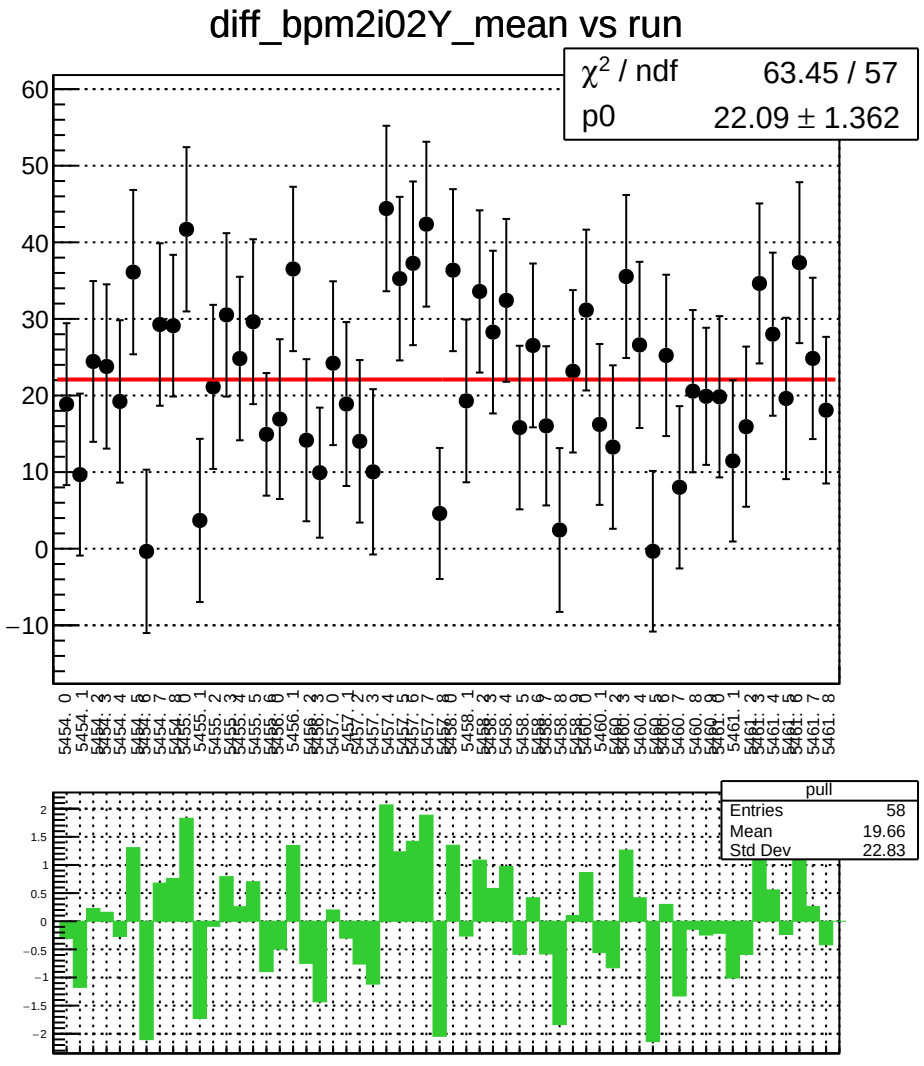

pull1D
Entries 58
Mean 0.01556
Std Dev 1.07

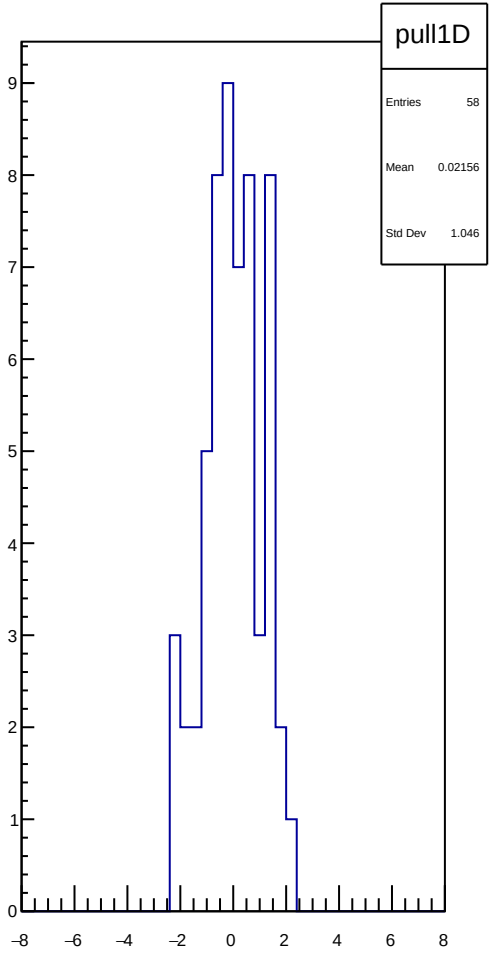

diff_bpm2i01Y_rms vs run
χ² / ndf 135.3 / 57
p0 1028 ± 0.9829
1070
1060
1050
1040
1030
1020
1010
1000
990
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

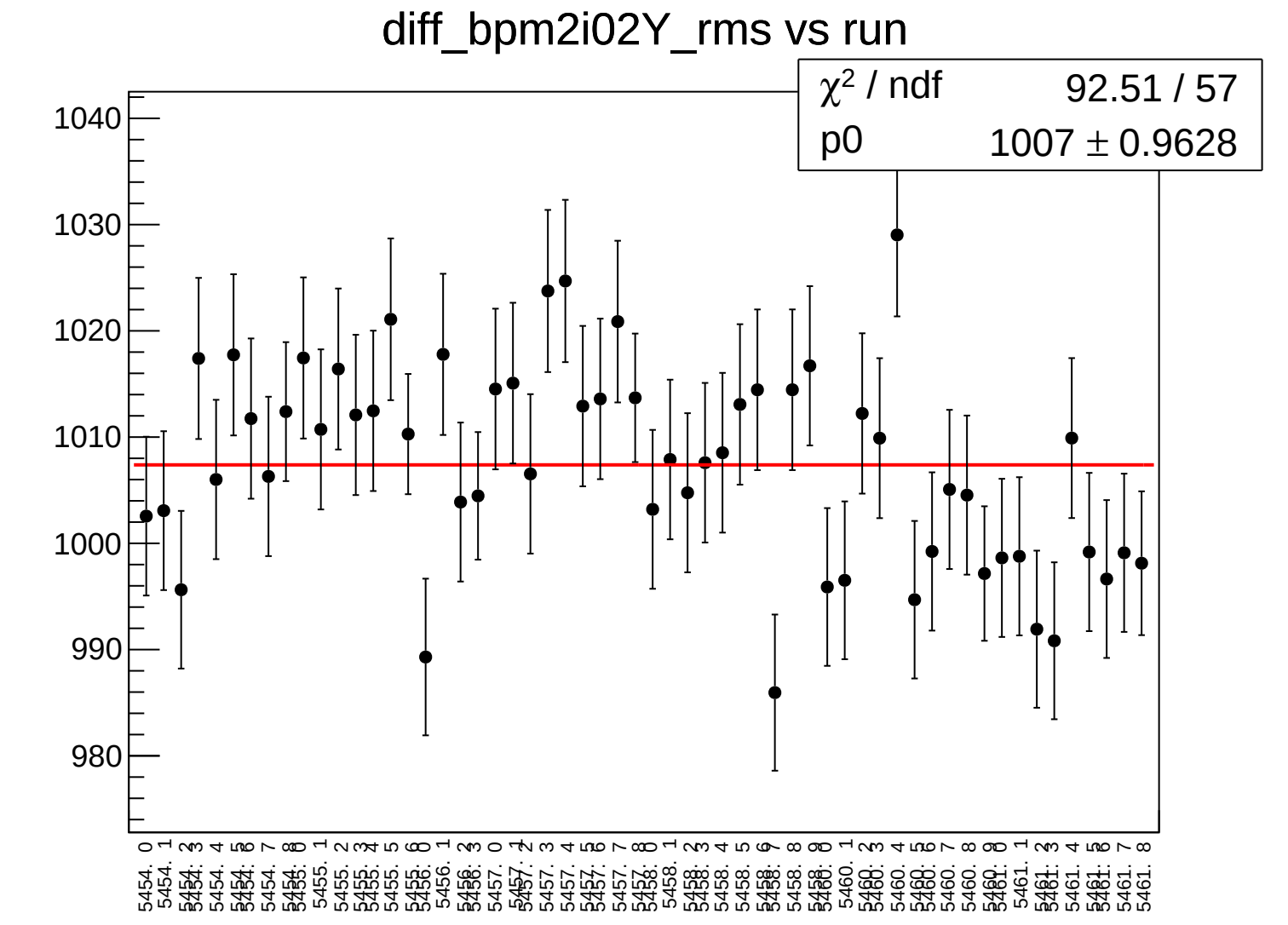

diff_bpm2i02X_mean vs run
χ² / ndf 59.33 / 57
p0 −21.77 ± 1.587
pull
Entries 58
Mean −241.7
Std Dev 274.5

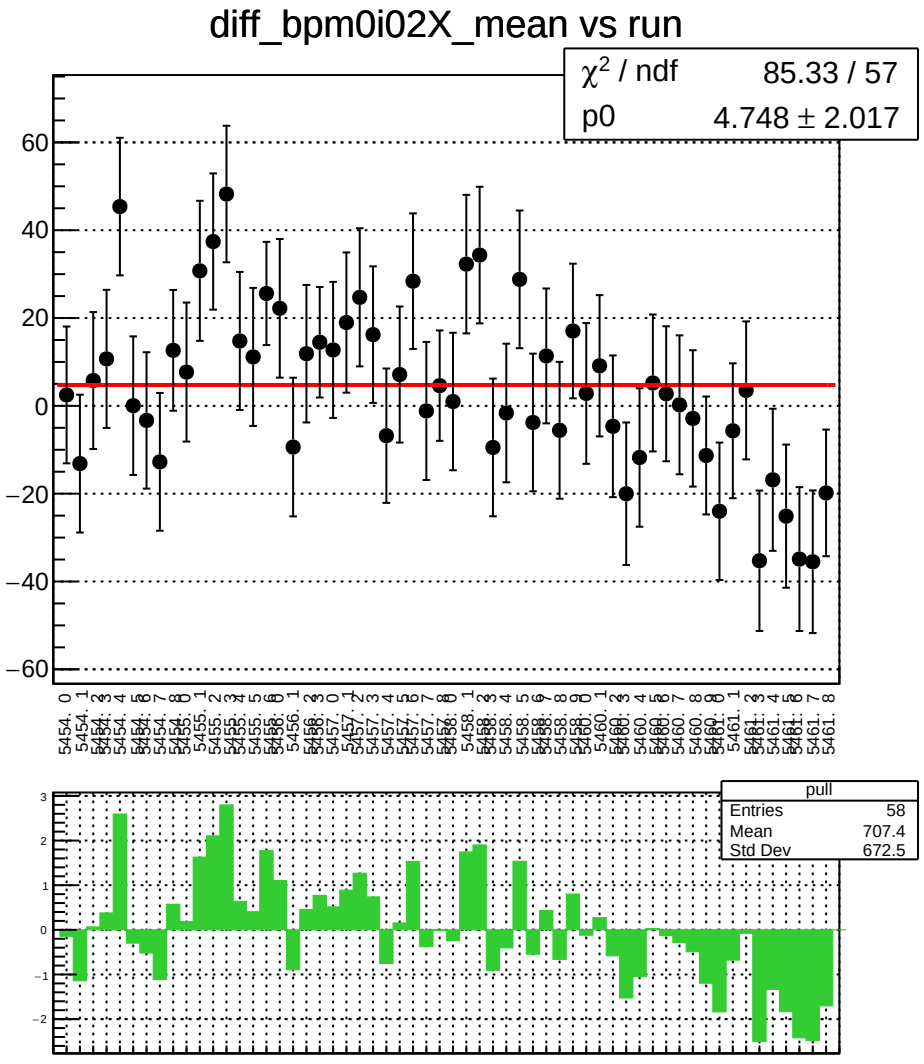

pull1D
Entries 58
Mean 0.01565
Std Dev 1.011

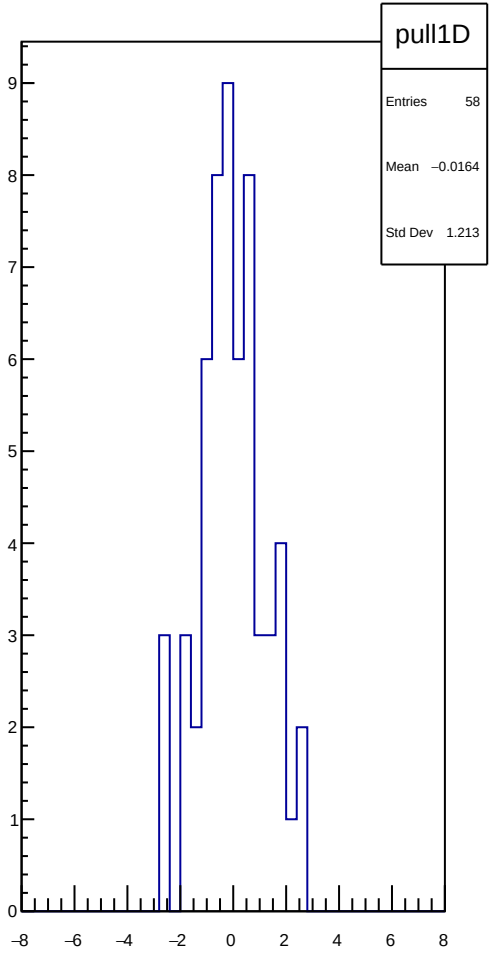

diff_bpm2i02X_rms vs run
χ² / ndf 599.2 / 57
p0 1174 ± 1.122
1240
1220
1200
1180
1160
1140
1120
1100
1080

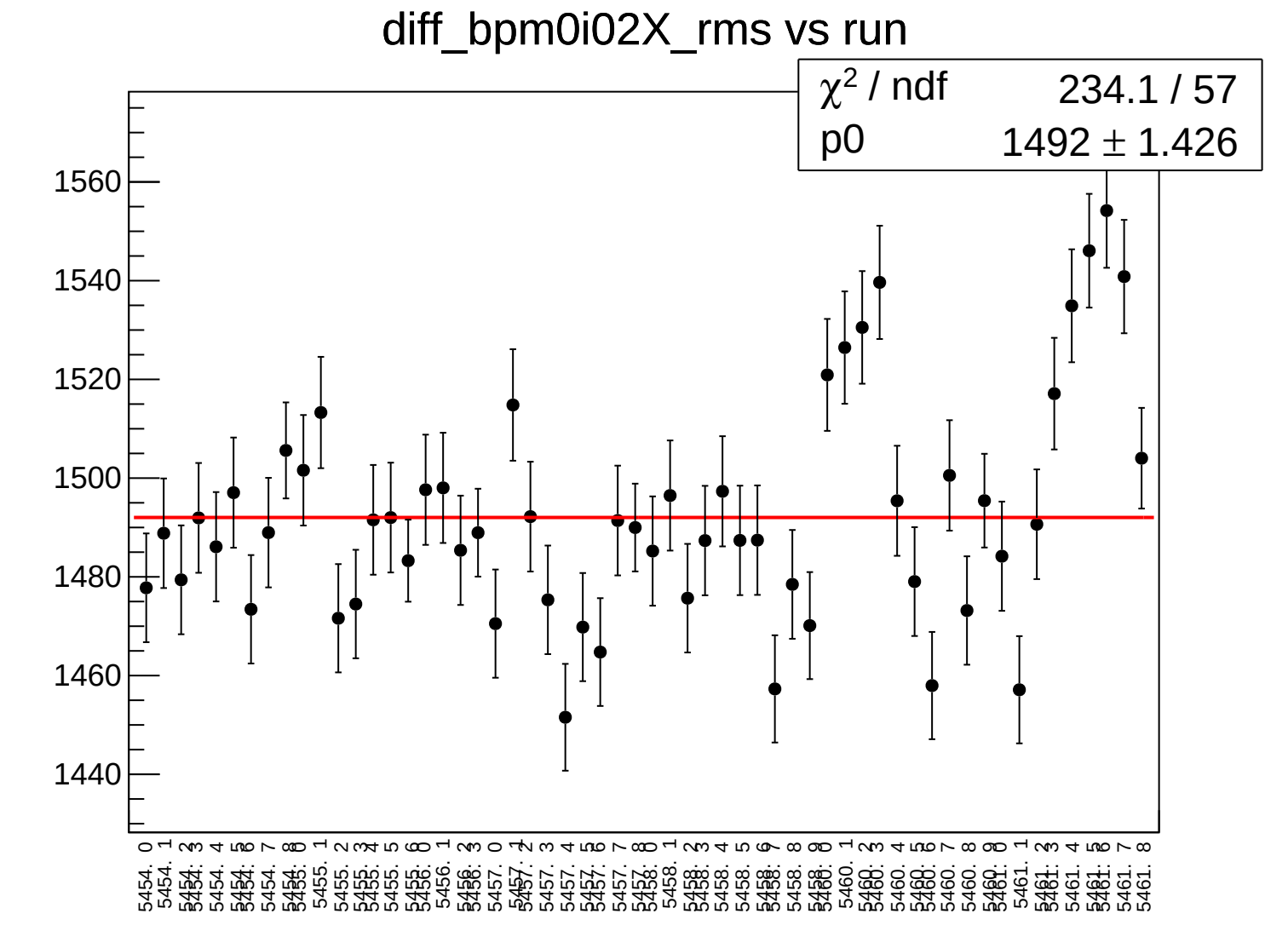

diff_bpm2i02Y_mean vs run
χ^2 / ndf 63.45 / 57
p0 22.09 ± 1.362
pull
Entries 58
Mean 19.66
Std Dev 22.83

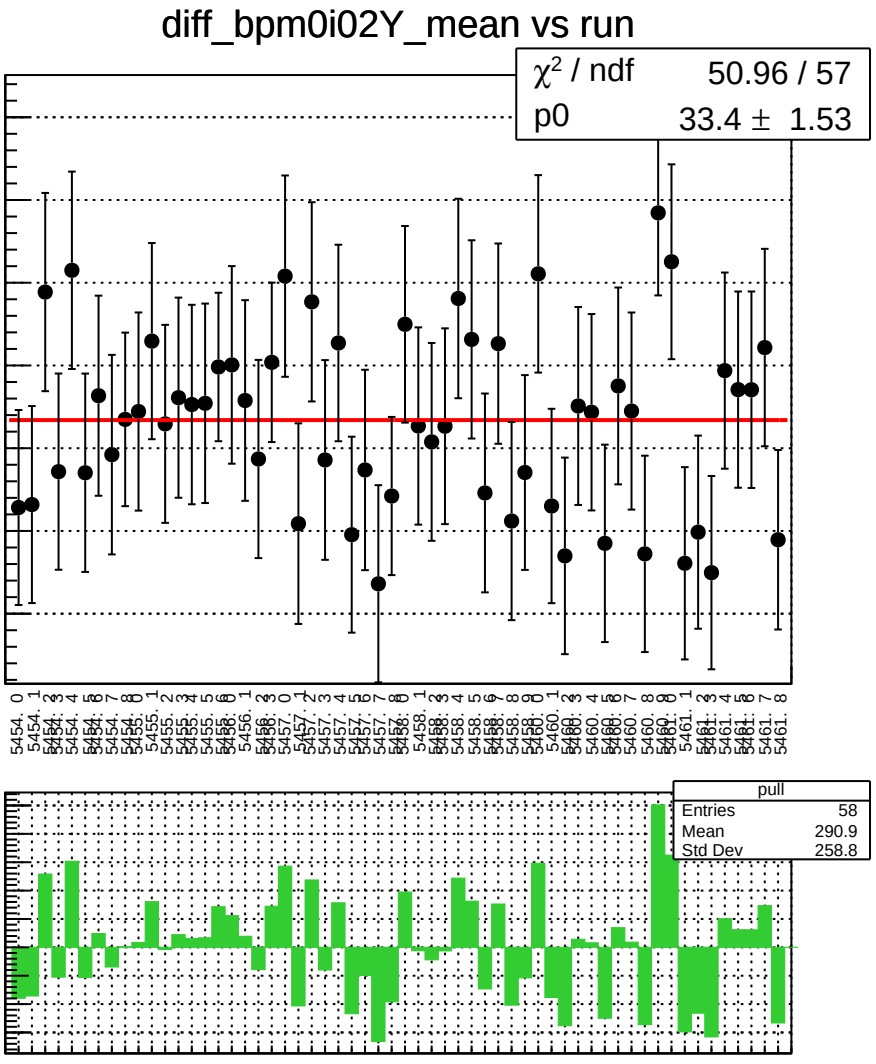

pull1D
Entries 58
Mean 0.02156
Std Dev 1.046

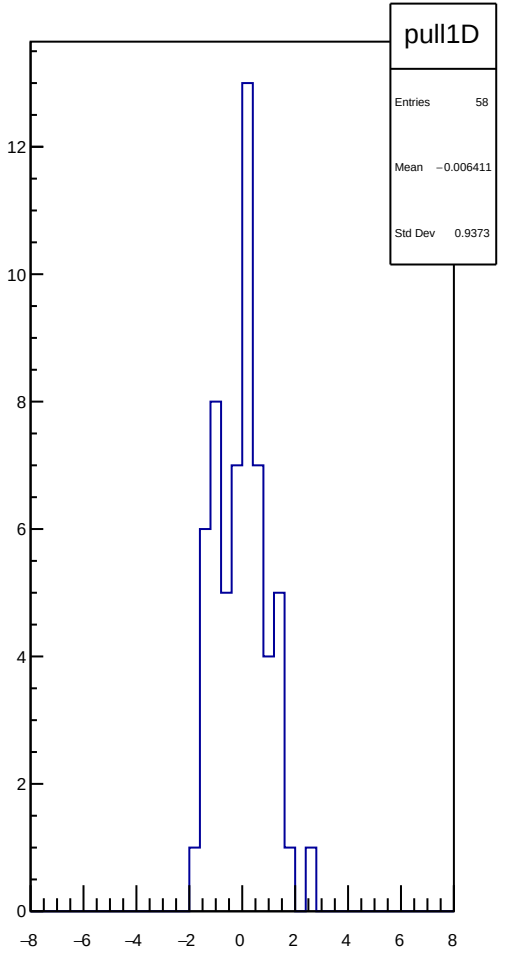

diff_bpm2i02Y_rms vs run
χ² / ndf 92.51 / 57
p0 1007 ± 0.9628
1040
1030
1020
1010
1000
990
980
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

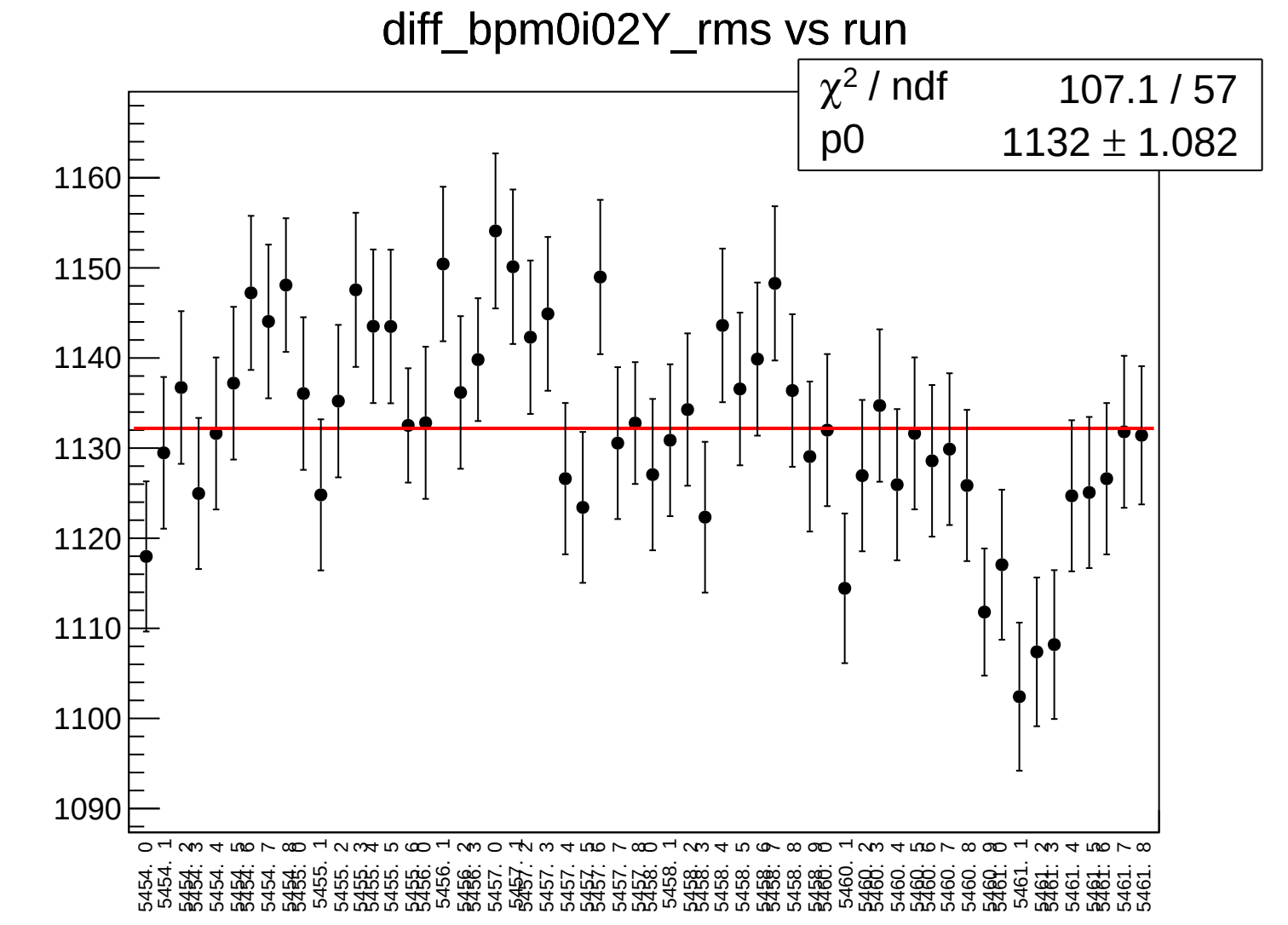

diff_bpm0i02X_mean vs run
χ² / ndf 85.33 / 57
p0 4.748 ± 2.017
pull
Entries 58
Mean 707.4
Std Dev 672.5

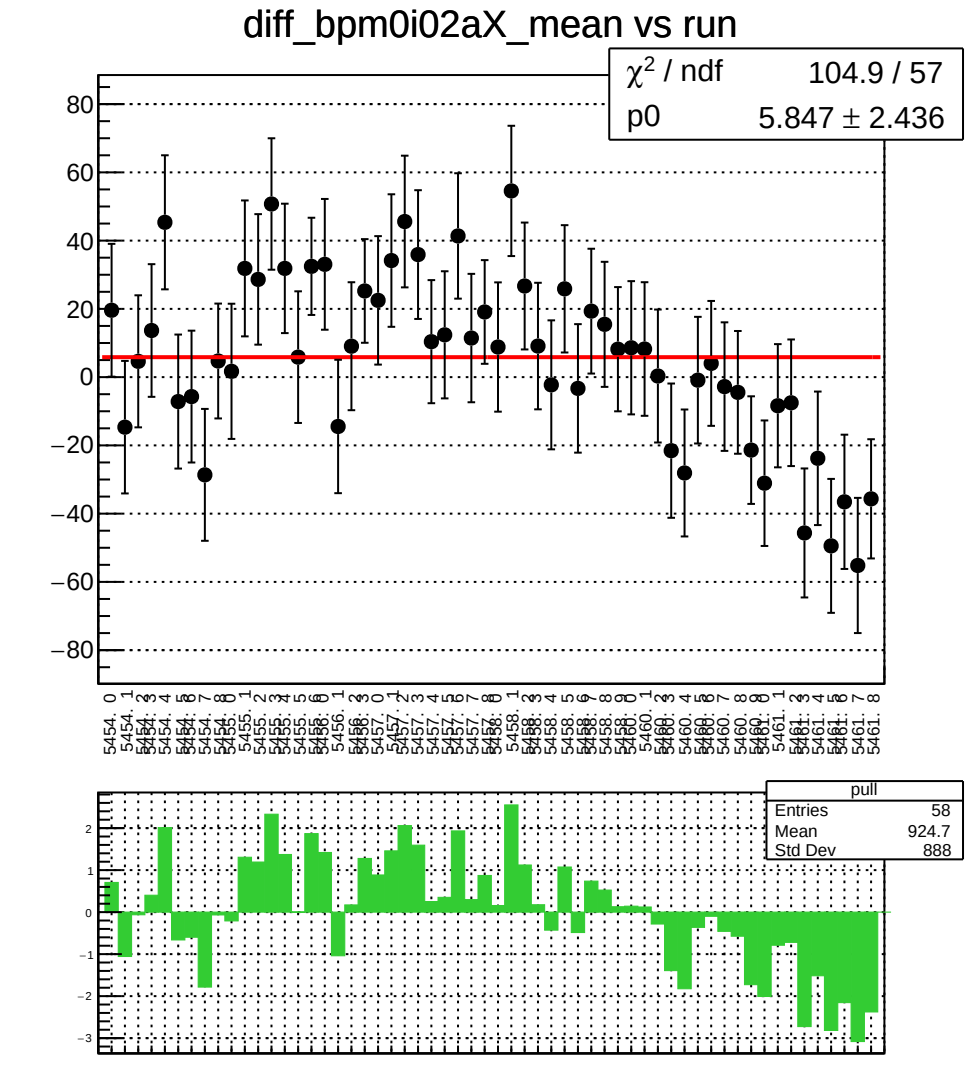

pull1D
Entries 58
Mean −0.0164
Std Dev 1.213

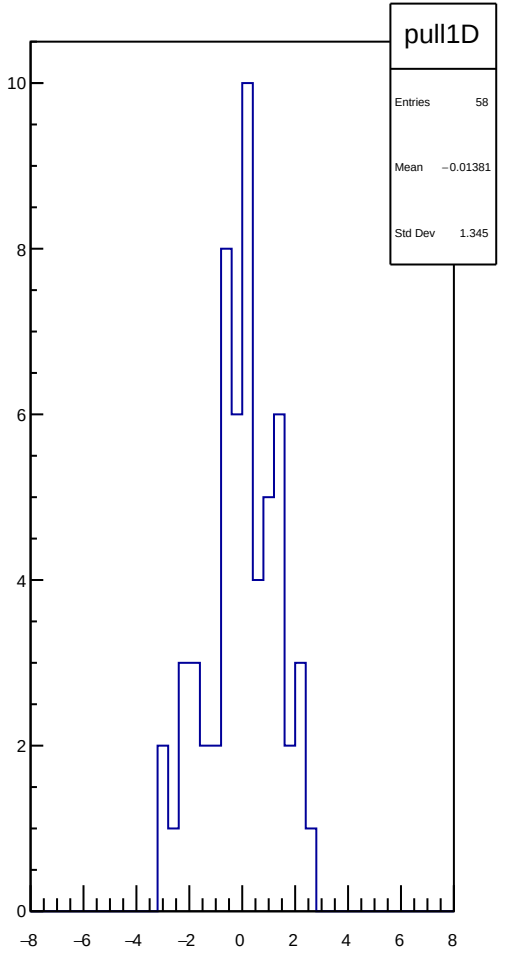

diff_bpm0i02X_rms vs run
χ² / ndf 234.1 / 57
p0 1492 ± 1.426
1560
1540
1520
1500
1480
1460
1440

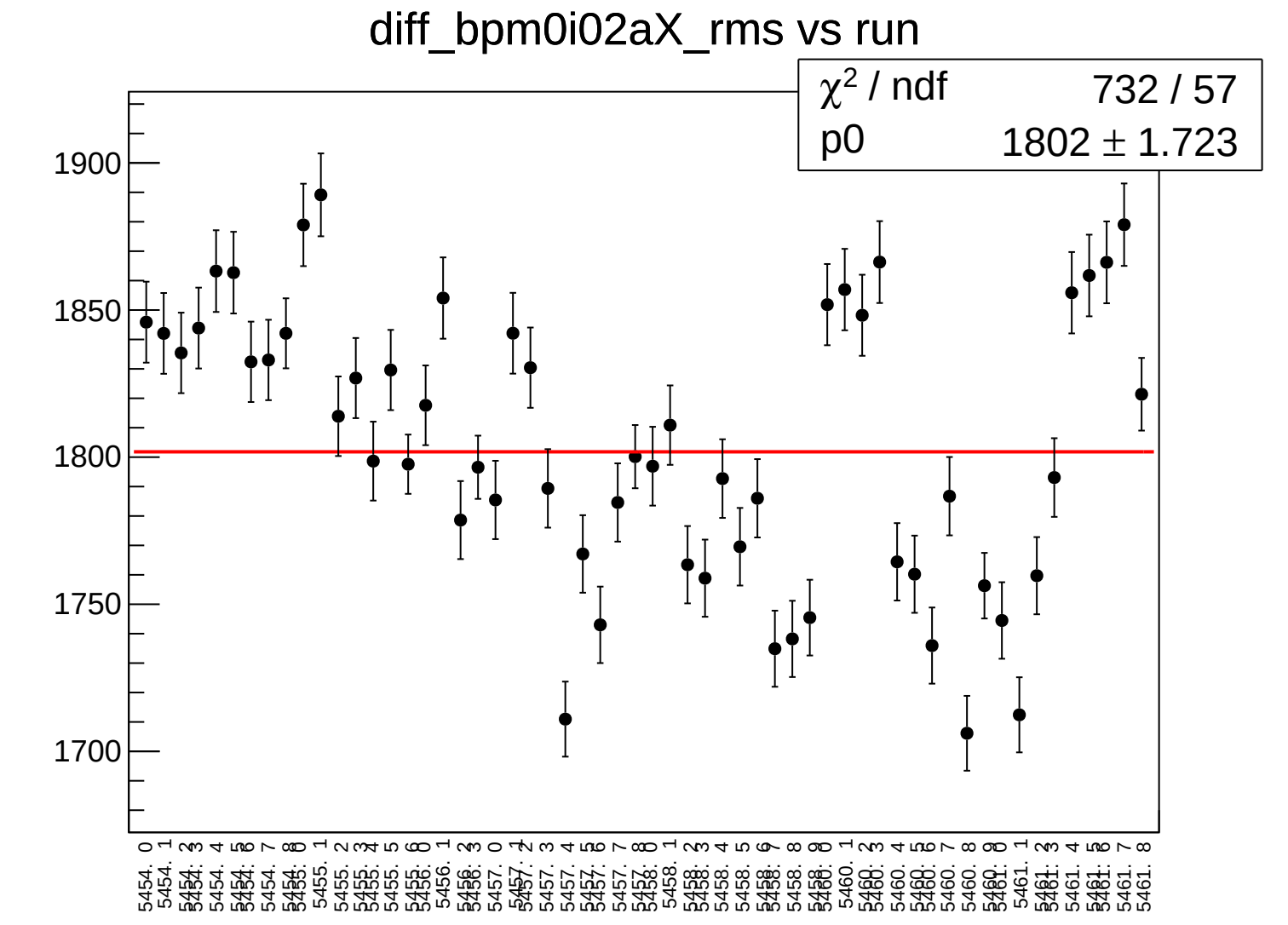

diff_bpm0i02Y_mean vs run
χ^2 / ndf 50.96 / 57
p0 33.4 ± 1.53
pull
Entries 58
Mean 290.9
Std Dev 258.8

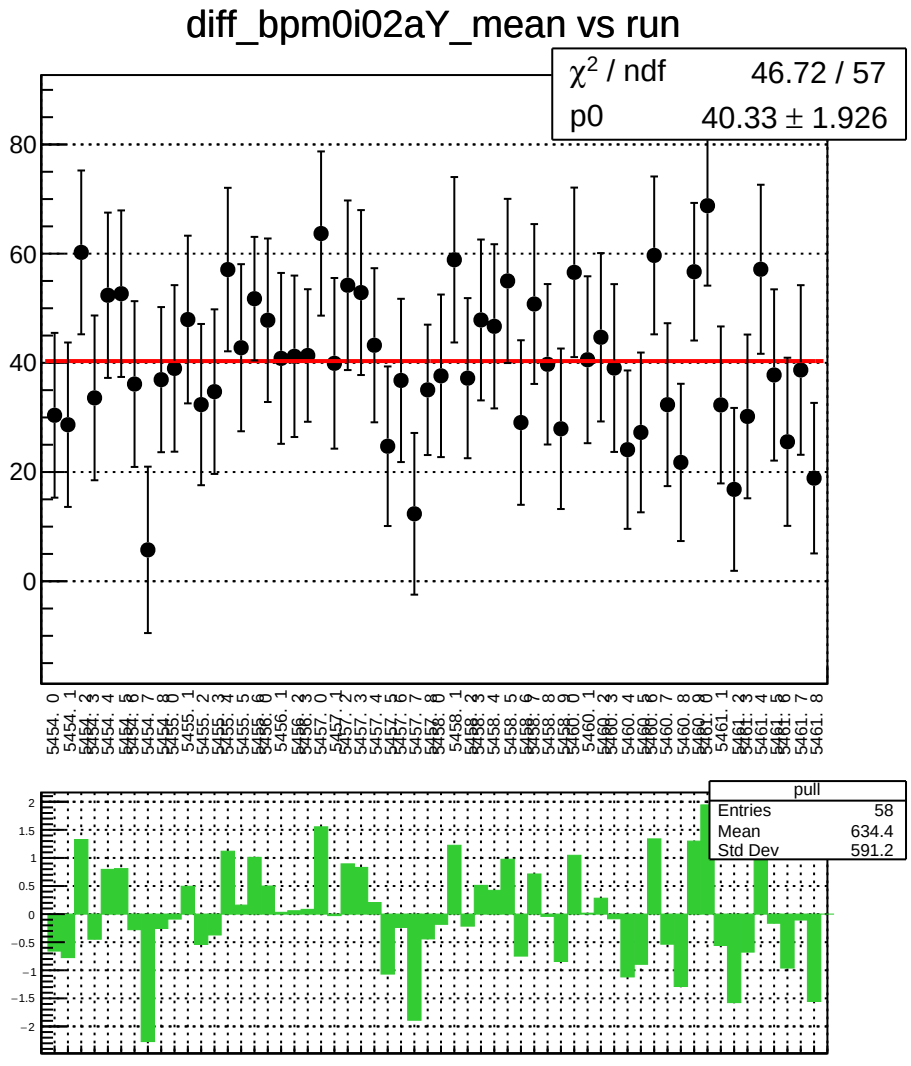

pull1D
Entries 58
Mean −0.006411
Std Dev 0.9373

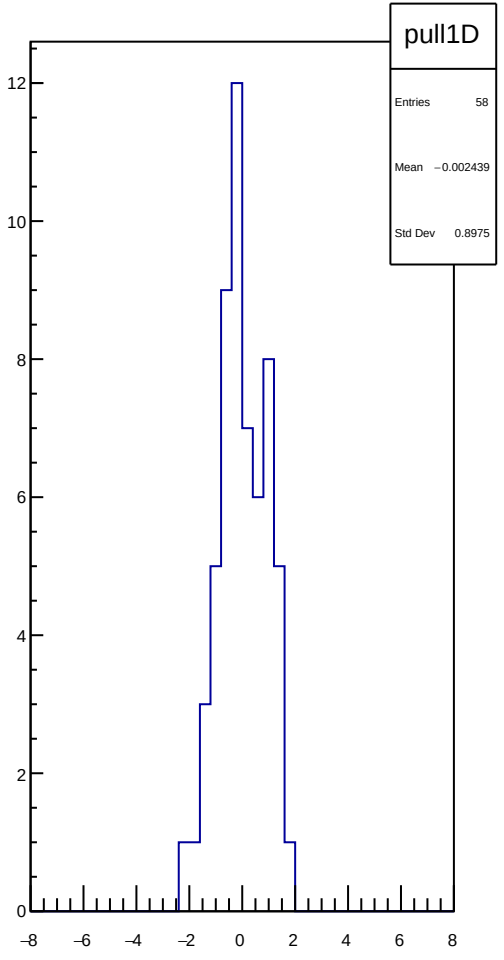

diff_bpm0i02Y_rms vs run
χ² / ndf 107.1 / 57
p0 1132 ± 1.082
1160
1150
1140
1130
1120
1110
1100
1090

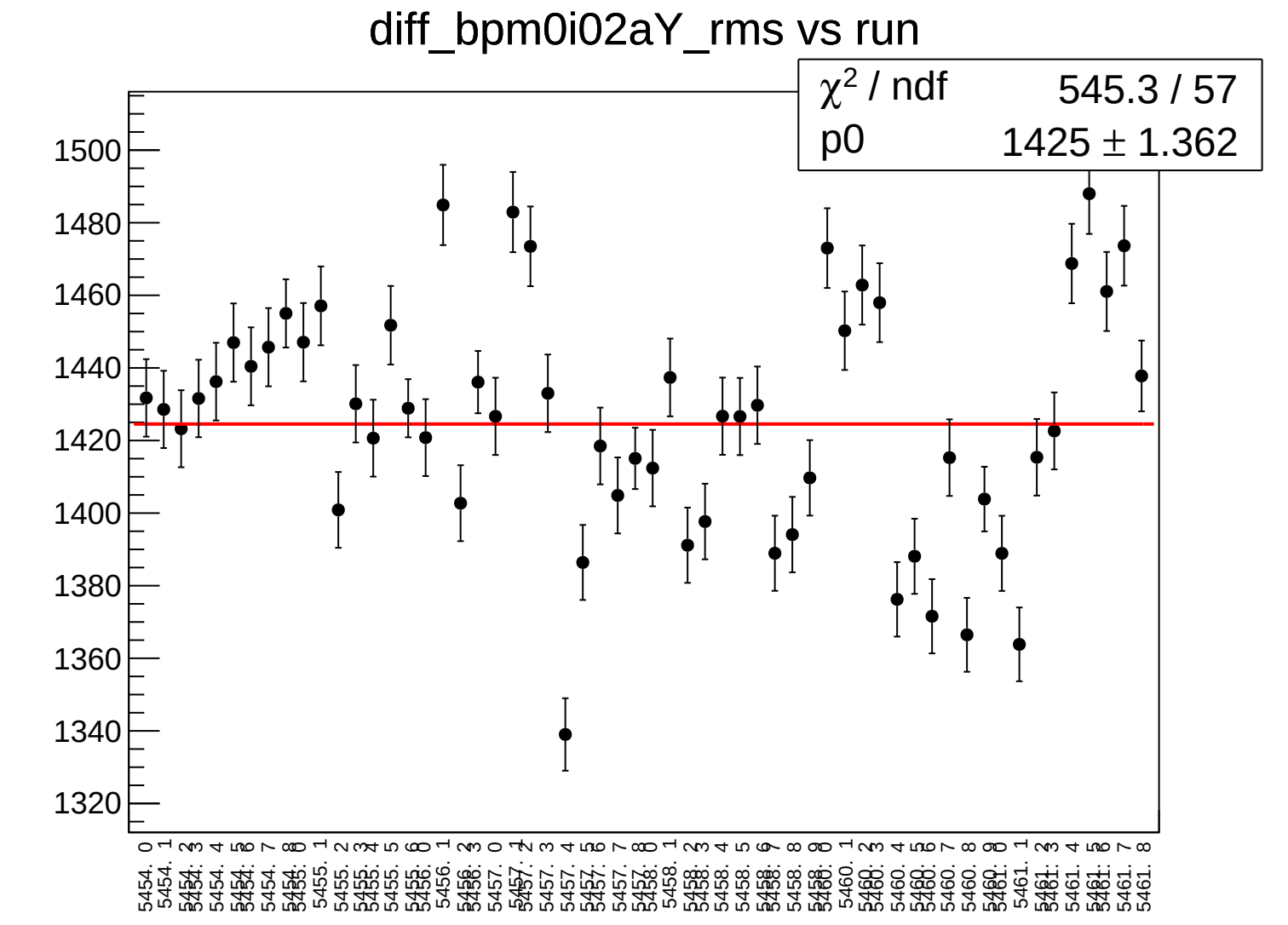

diff_bpm0i02aX_mean vs run
χ² / ndf 104.9 / 57
p0 5.847 ± 2.436
pull
Entries 58
Mean 924.7
Std Dev 888

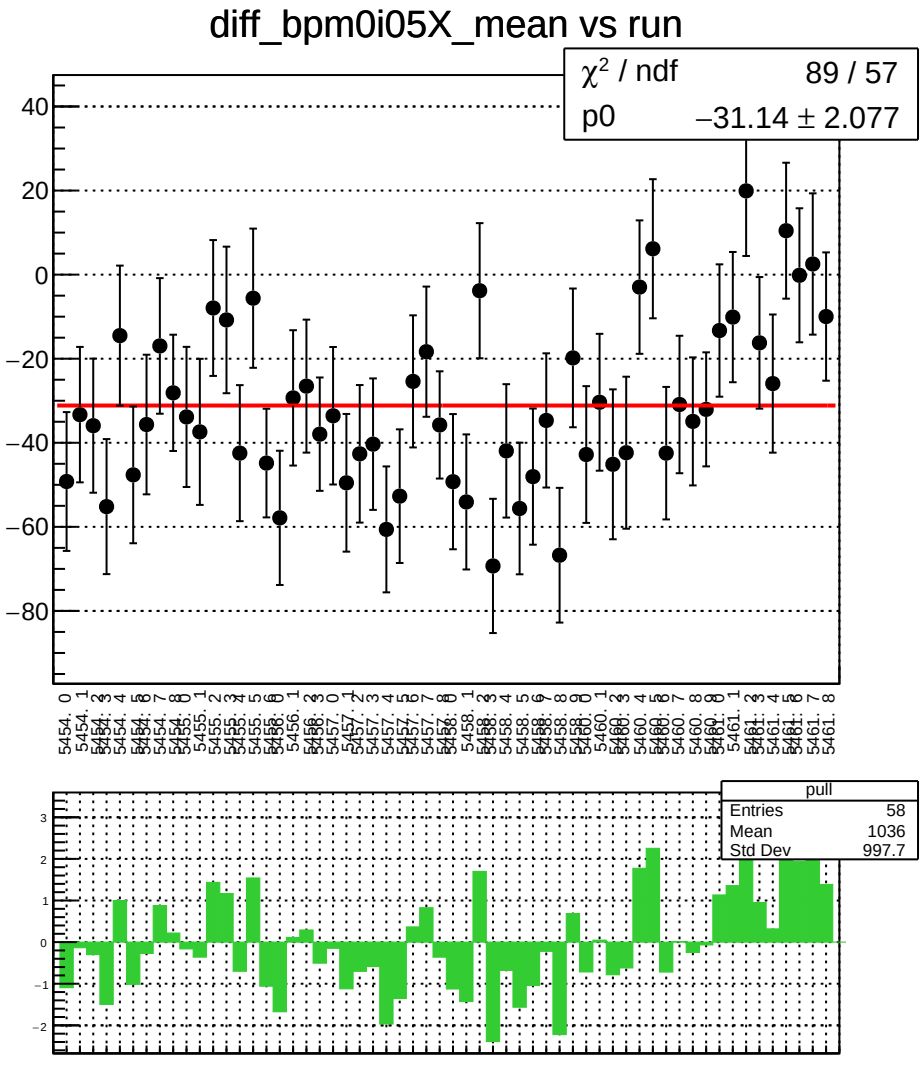

pull1D
Entries 58
Mean −0.01381
Std Dev 1.345

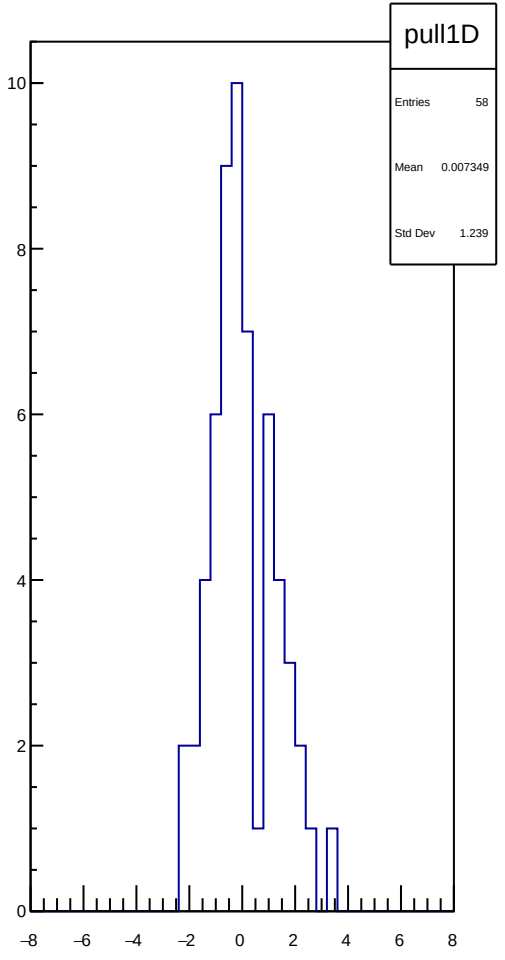

diff_bpm0i02aX_rms vs run
χ² / ndf 732 / 57
p0 1802 ± 1.723
1900
1850
1800
1750
1700

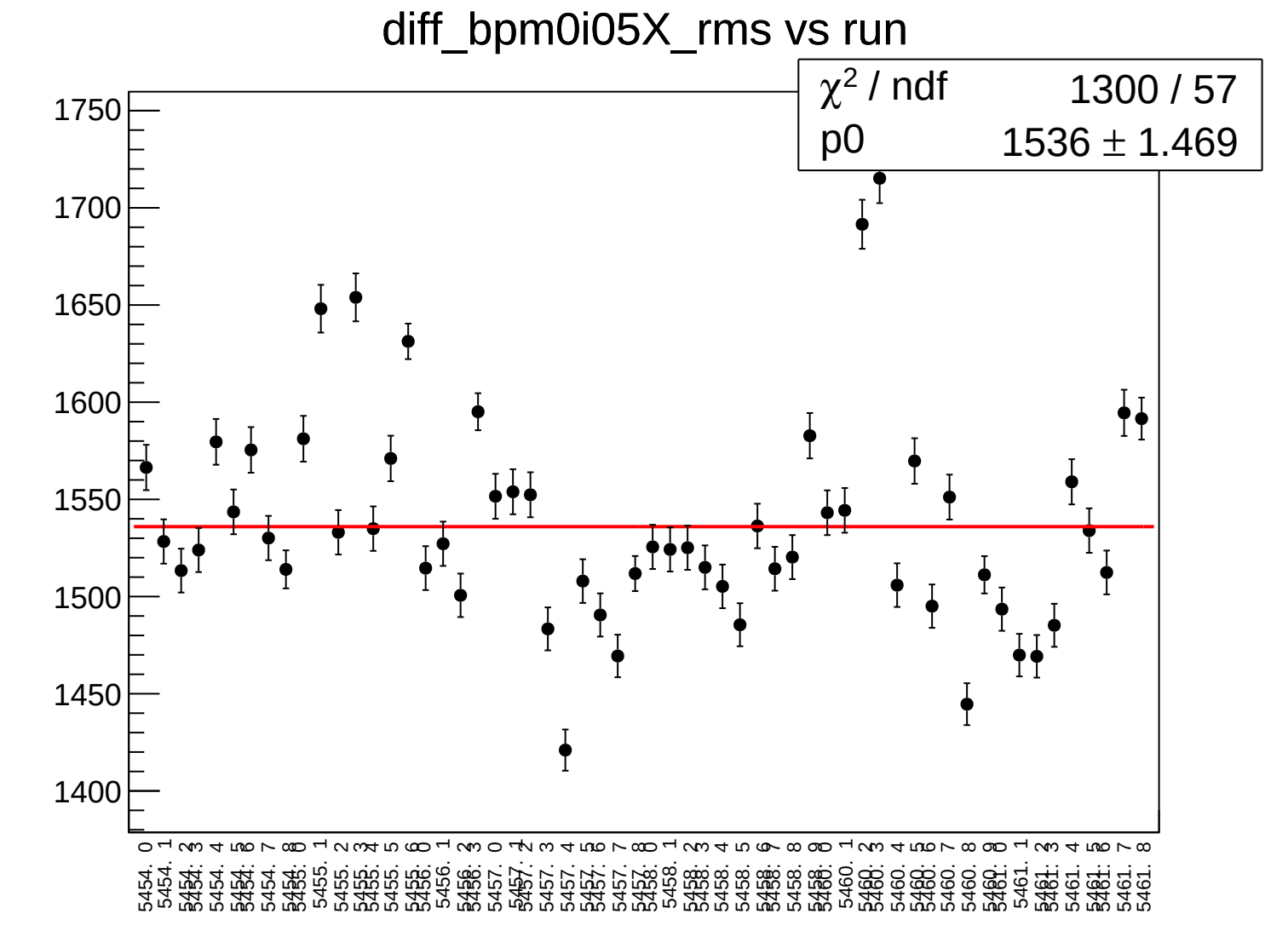

diff_bpm0i02aY_mean vs run
χ² / ndf 46.72 / 57
p0 40.33 ± 1.926
pull
Entries 58
Mean 634.4
Std Dev 591.2

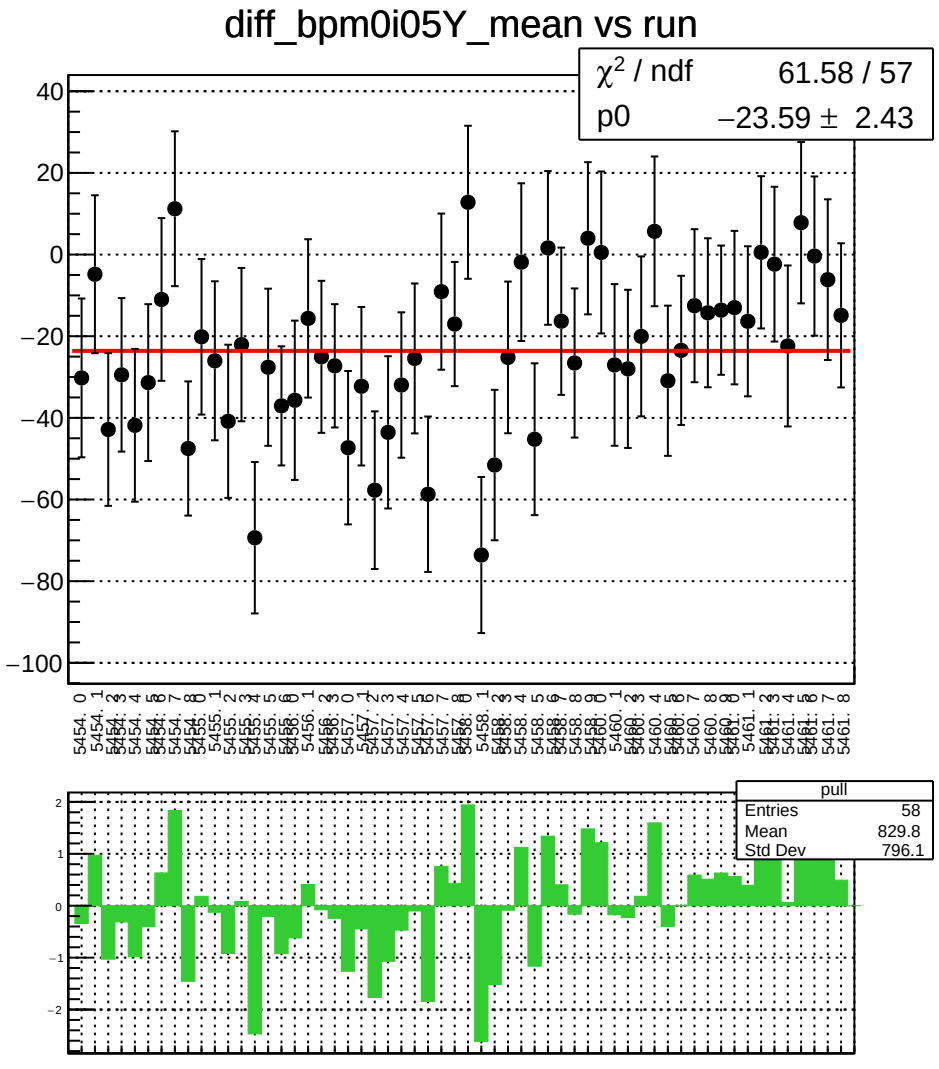

pull1D
Entries 58
Mean −0.002439
Std Dev 0.8975

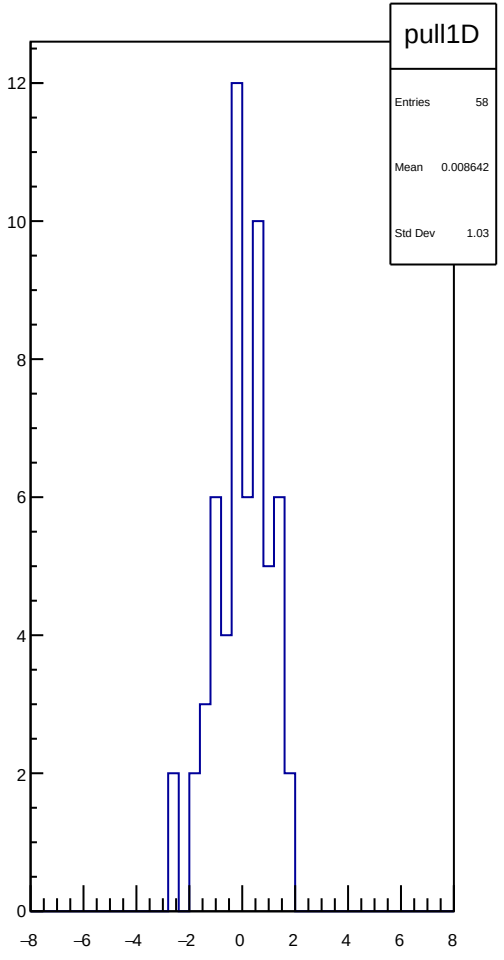

diff_bpm0i02aY_rms vs run
χ² / ndf 545.3 / 57
p0 1425 ± 1.362
1500
1480
1460
1440
1420
1400
1380
1360
1340
1320

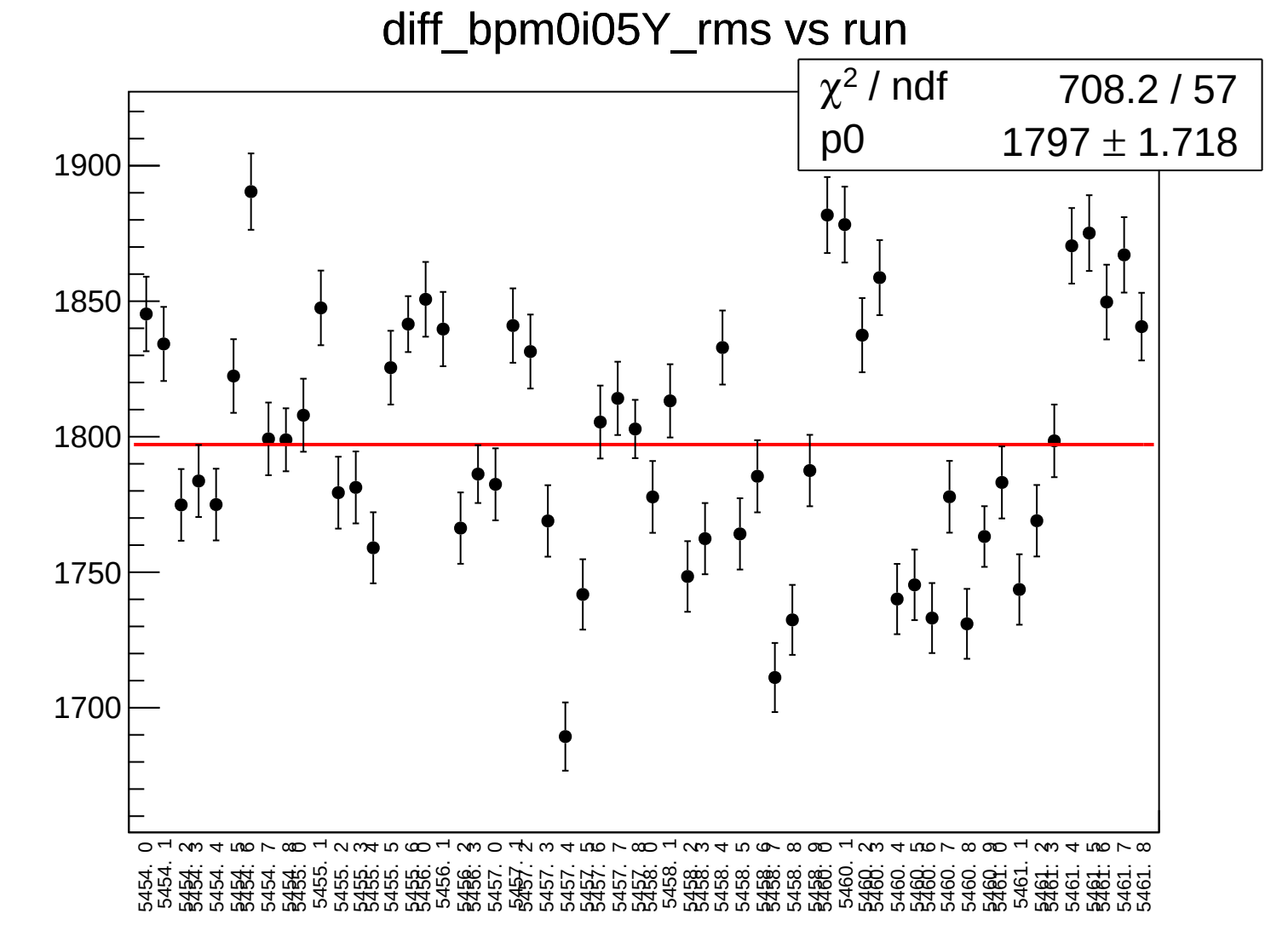

diff_bpm0i05X_mean vs run
χ² / ndf 89 / 57
p0 −31.14 ± 2.077
pull
Entries 58
Mean 1036
Std Dev 997.7

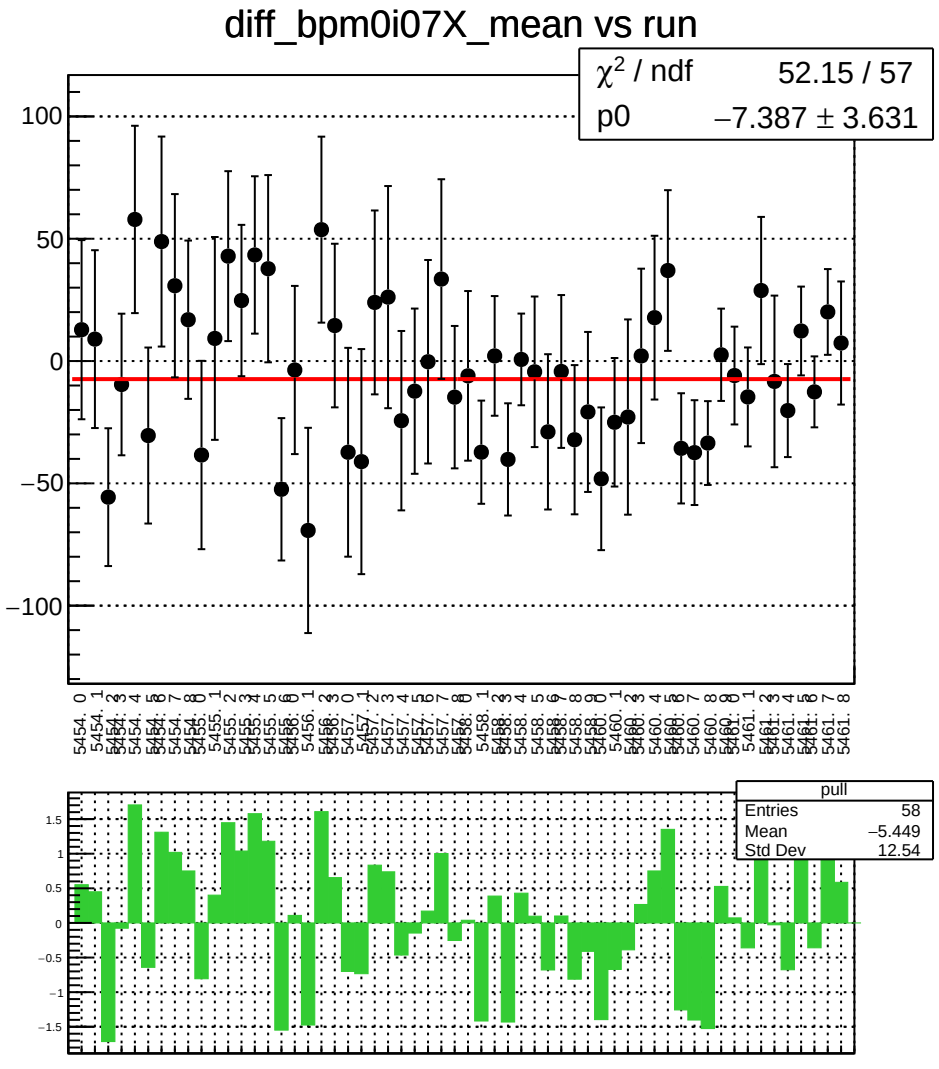

pull1D
Entries 58
Mean 0.007349
Std Dev 1.239

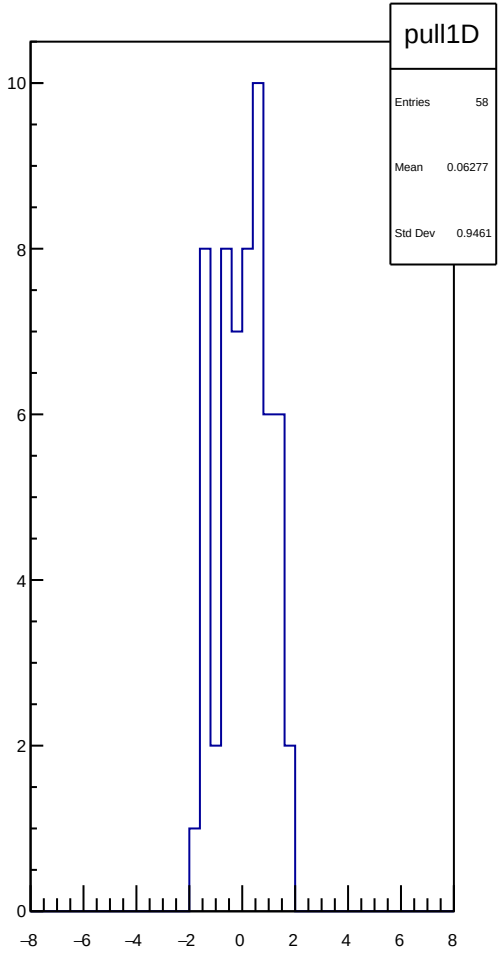

diff_bpm0i05X_rms vs run
χ² / ndf 1300 / 57
p0 1536 ± 1.469
1750
1700
1650
1600
1550
1500
1450
1400

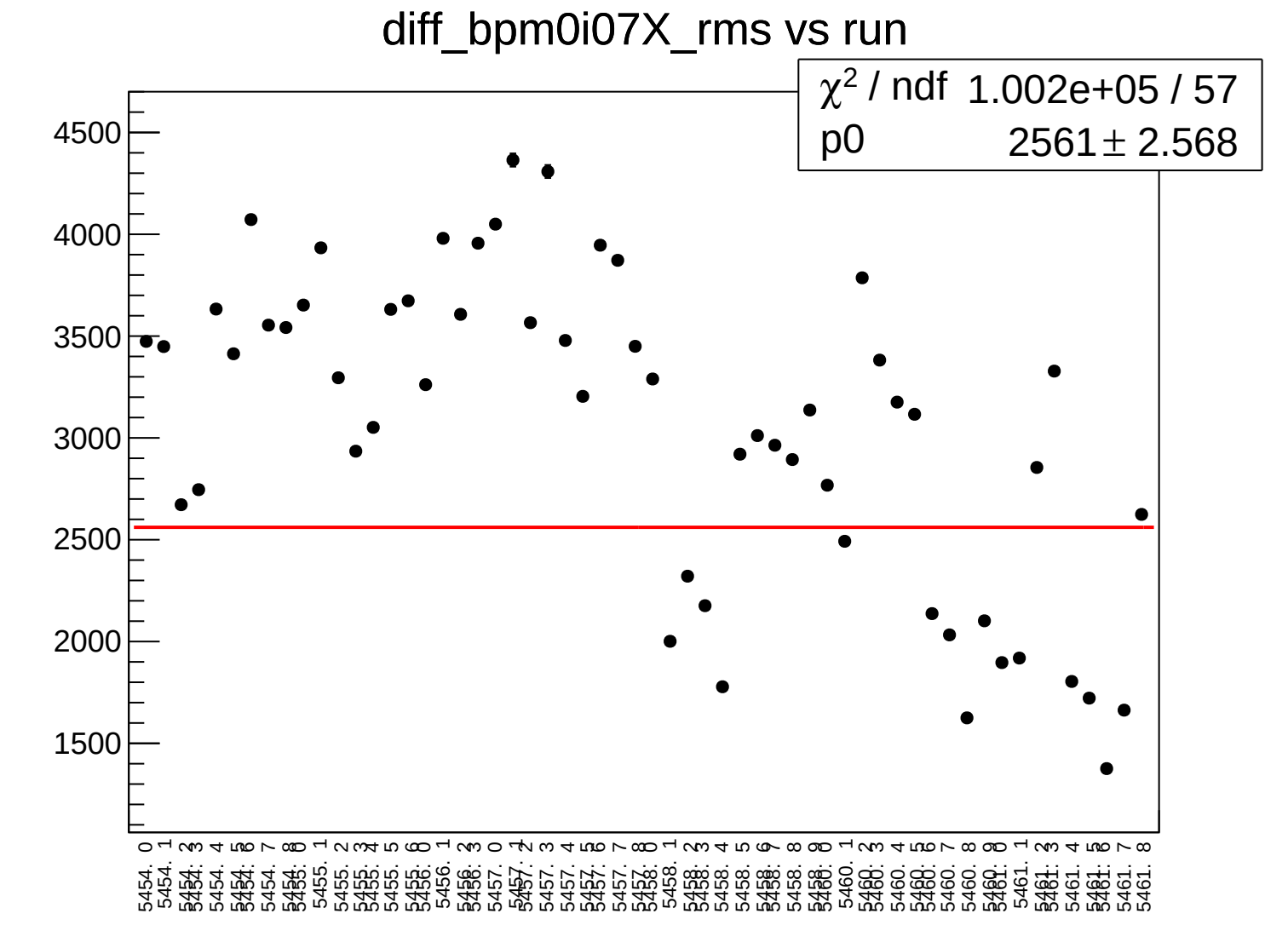

diff_bpm0i05Y_mean vs run
χ² / ndf 61.58 / 57
p0 −23.59 ± 2.43
pull
Entries 58
Mean 829.8
Std Dev 796.1

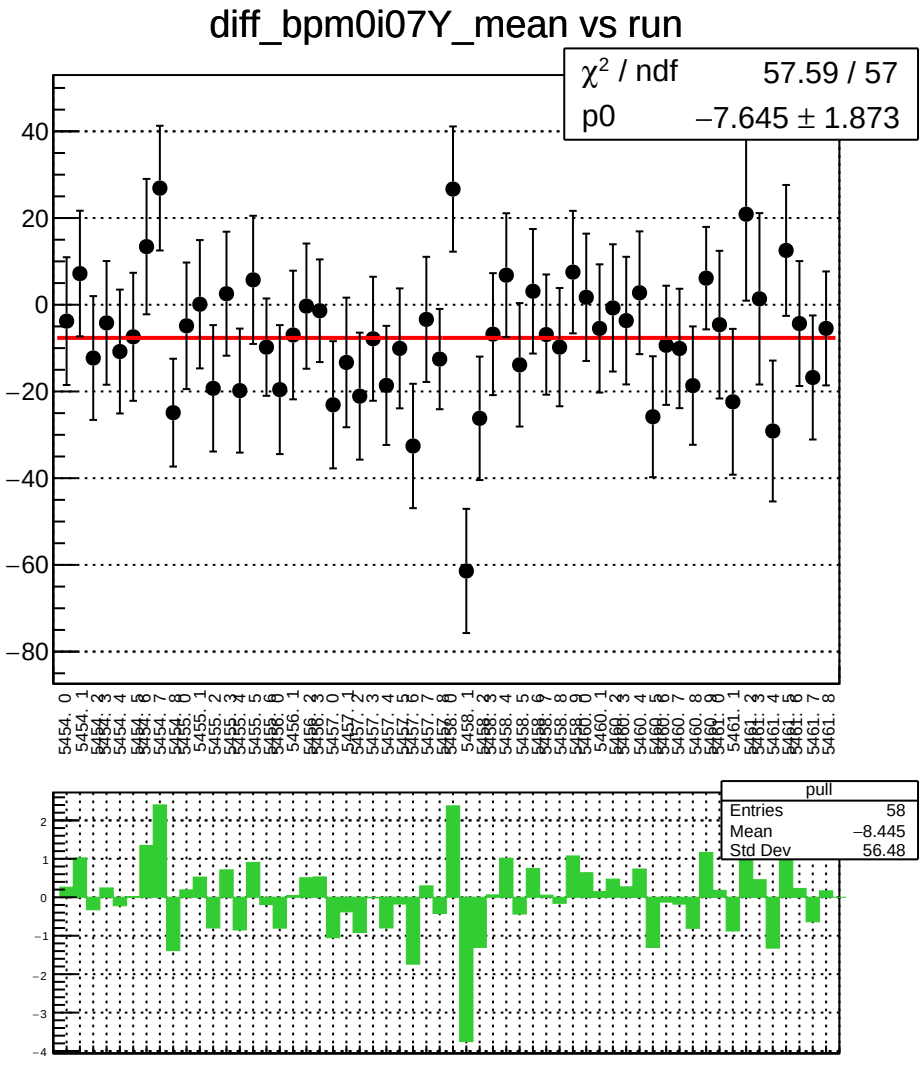

pull1D
Entries 58
Mean 0.008642
Std Dev 1.03

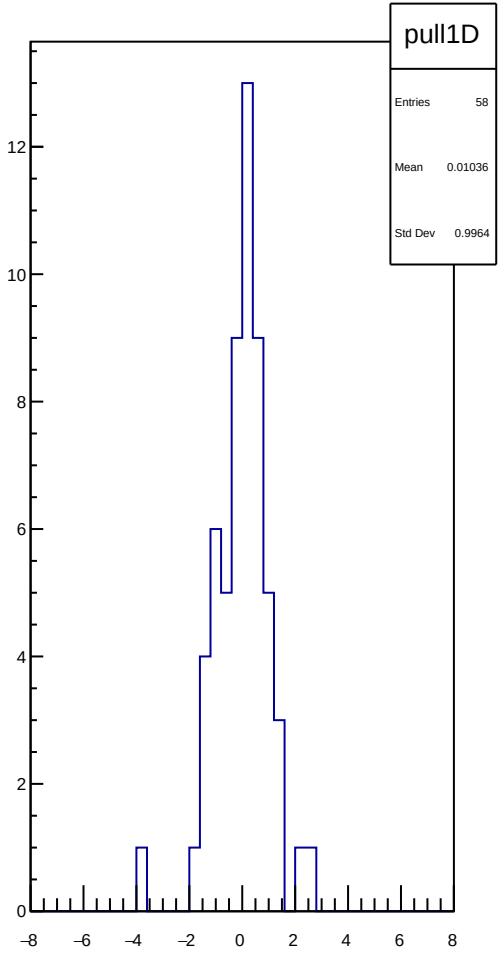

diff_bpm0i05Y_rms vs run
χ² / ndf 708.2 / 57
p0 1797 ± 1.718
1900
1850
1800
1750
1700

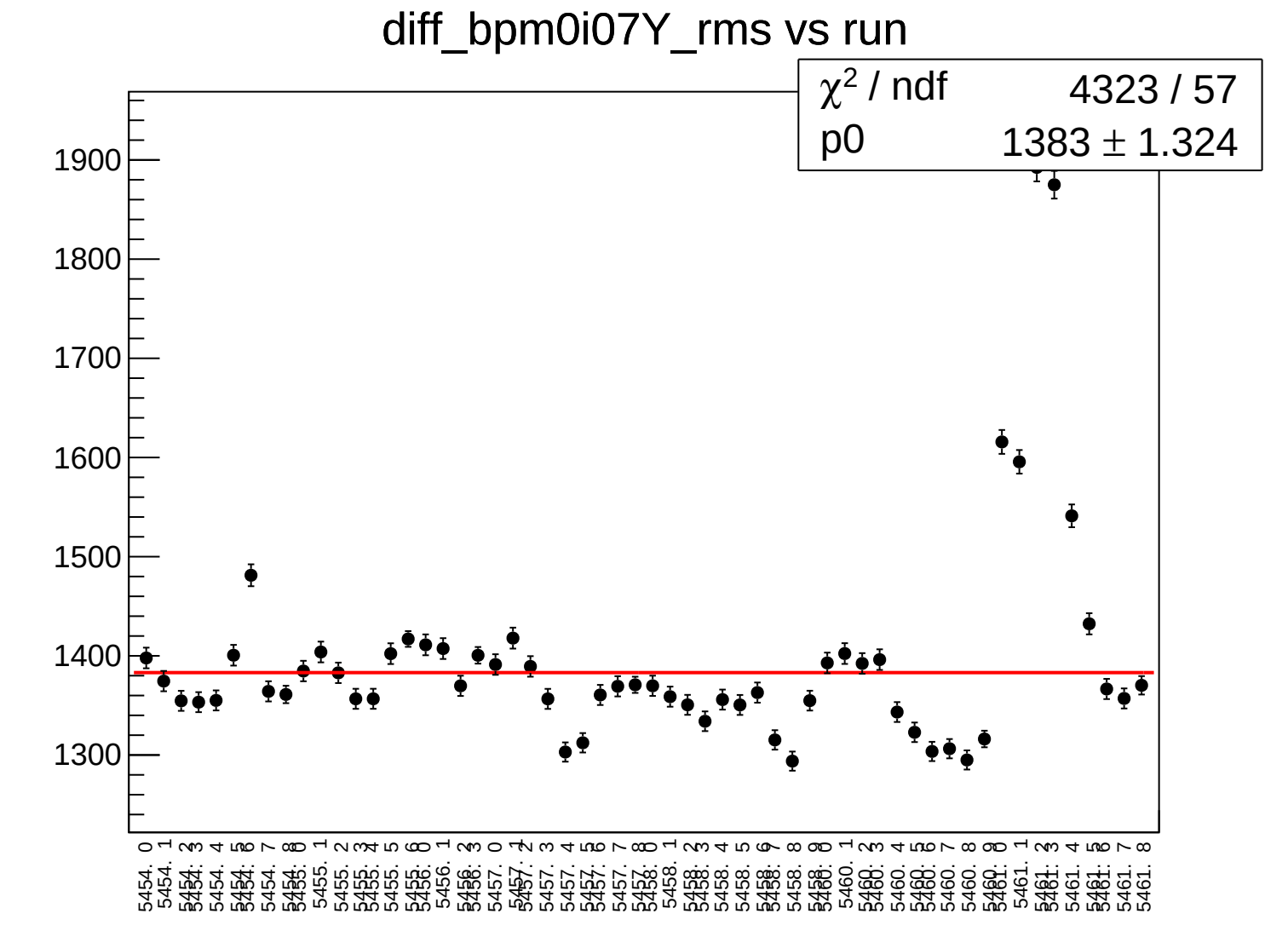

diff_bpm0i07X_mean vs run
χ² / ndf 52.15 / 57
p0 −7.387 ± 3.631
100
50
0
−50
−100
pull
Entries 58
Mean −5.449
Std Dev 12.54
1.5
1
0.5
0
−0.5
−1
−1.5

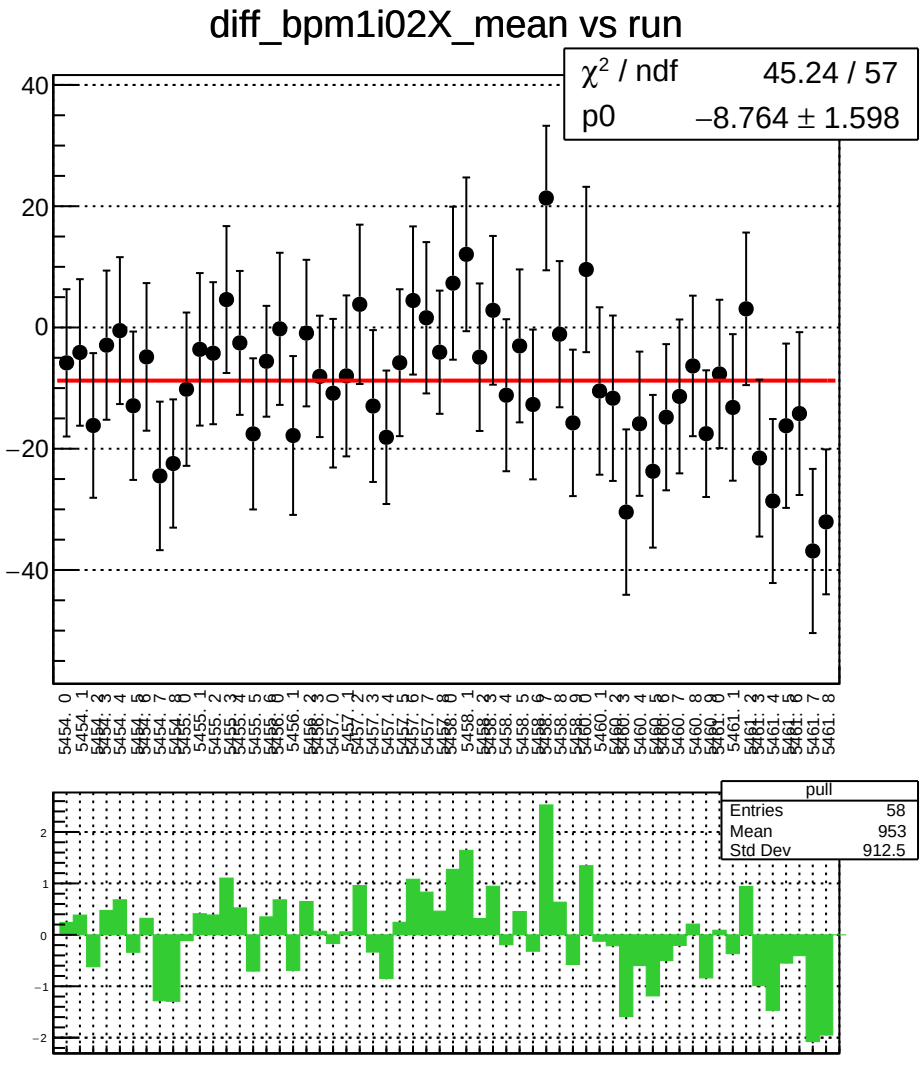

pull1D
Entries 58
Mean 0.06277
Std Dev 0.9461
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

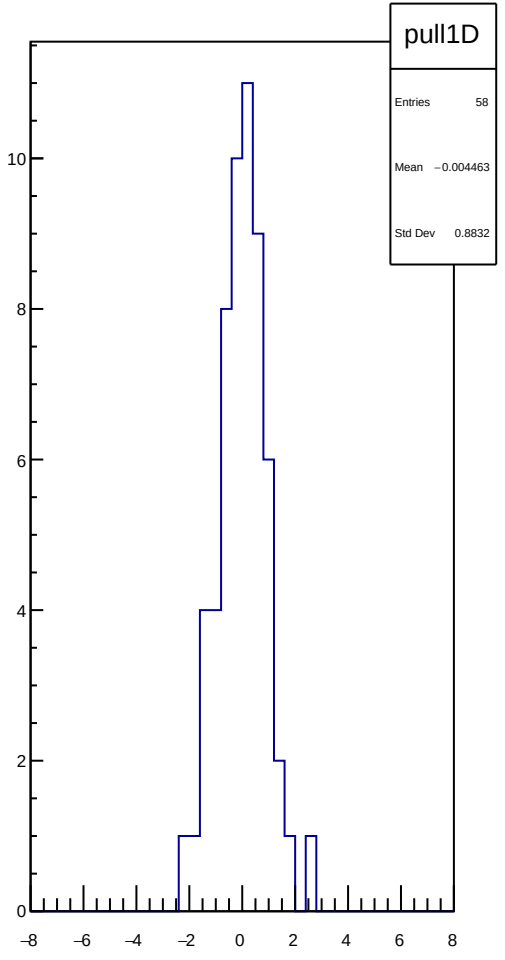

diff_bpm0i07X_rms vs run
χ² / ndf 1.002e+05 / 57
p0 2561 ± 2.568
4500
4000
3500
3000
2500
2000
1500

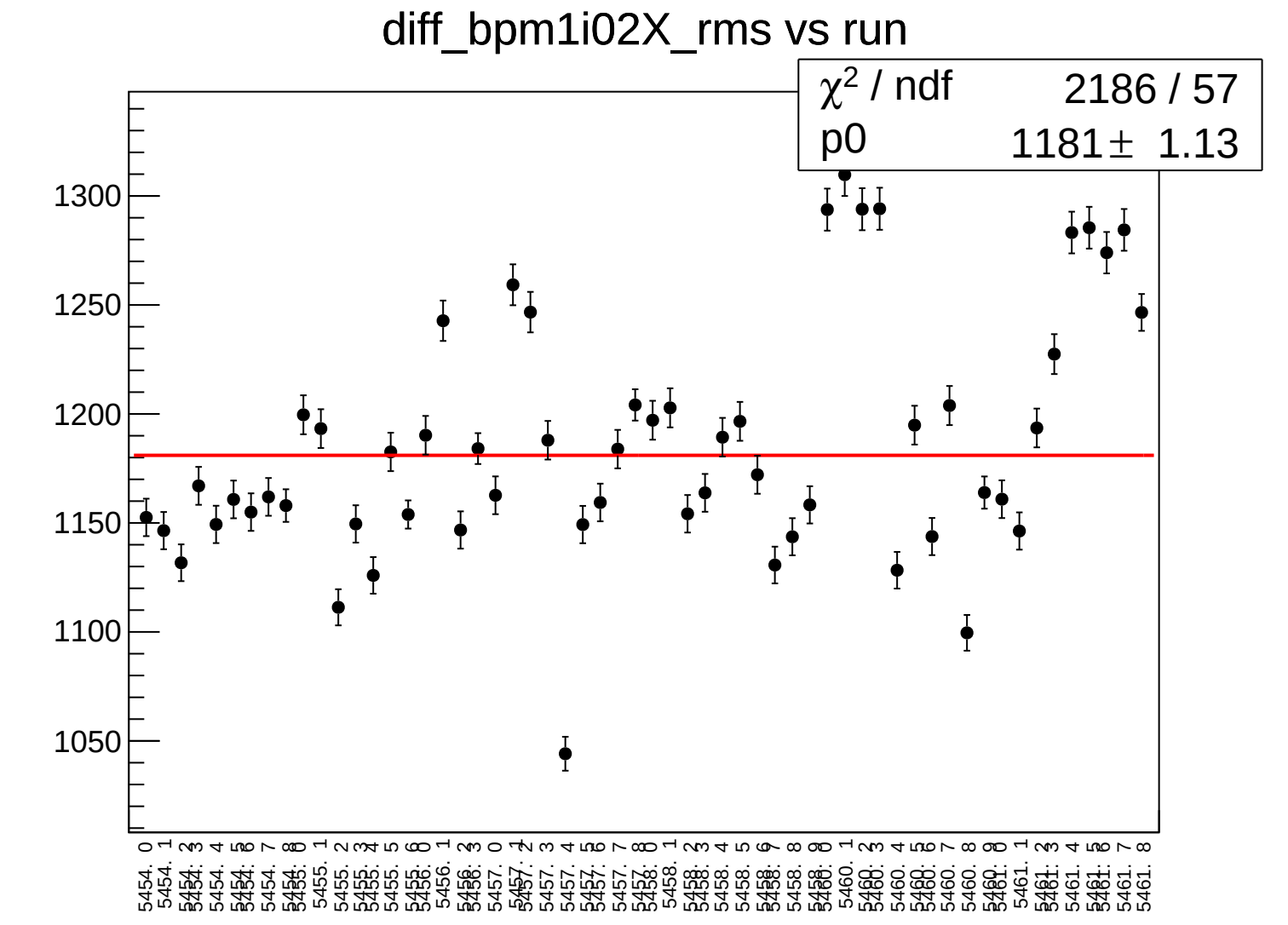

diff_bpm0i07Y_mean vs run
χ² / ndf 57.59 / 57
p0 −7.645 ± 1.873
pull
Entries 58
Mean −8.445
Std Dev 56.48

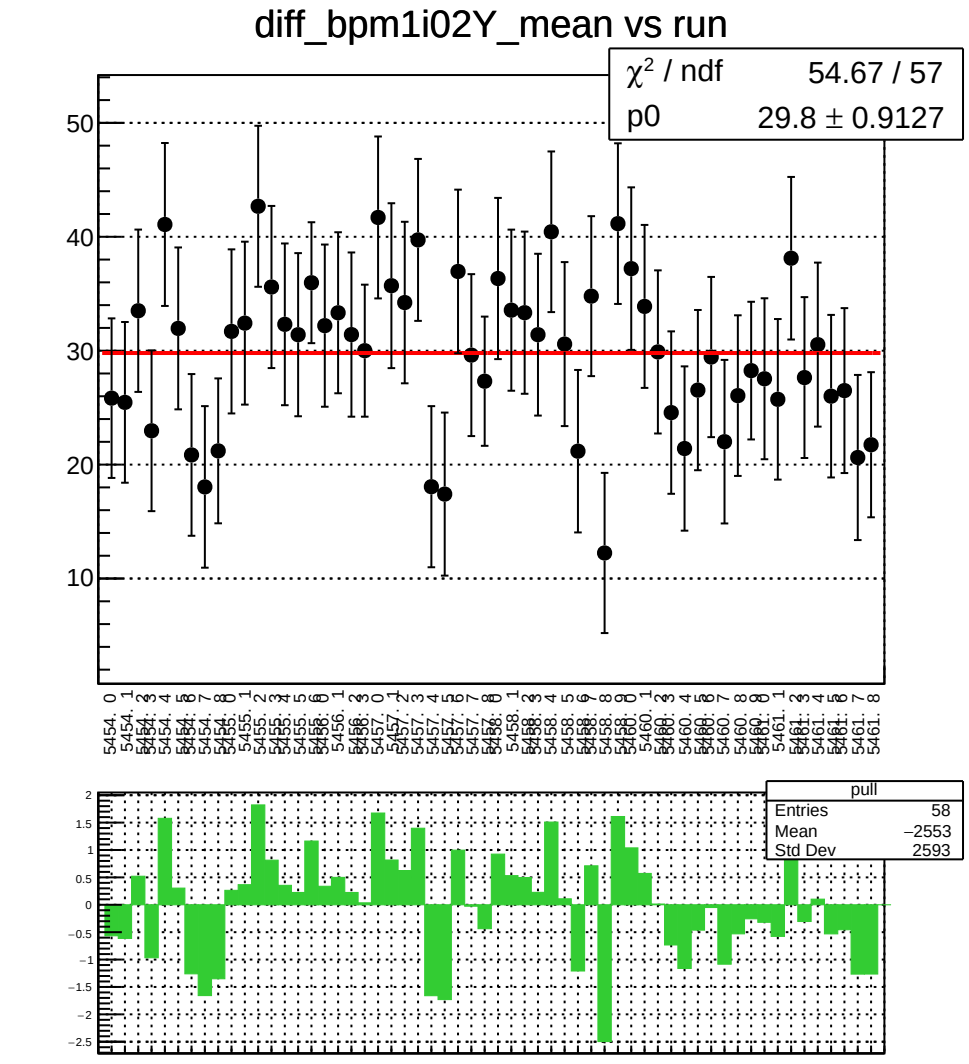

pull1D
Entries 58
Mean 0.01036
Std Dev 0.9964

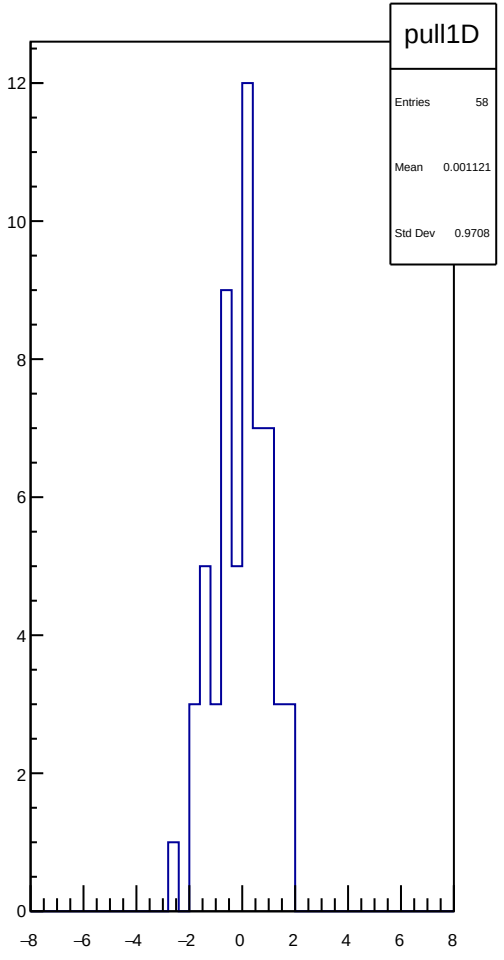

diff_bpm0i07Y_rms vs run
χ² / ndf 4323 / 57
p0 1383 ± 1.324
1900
1800
1700
1600
1500
1400
1300

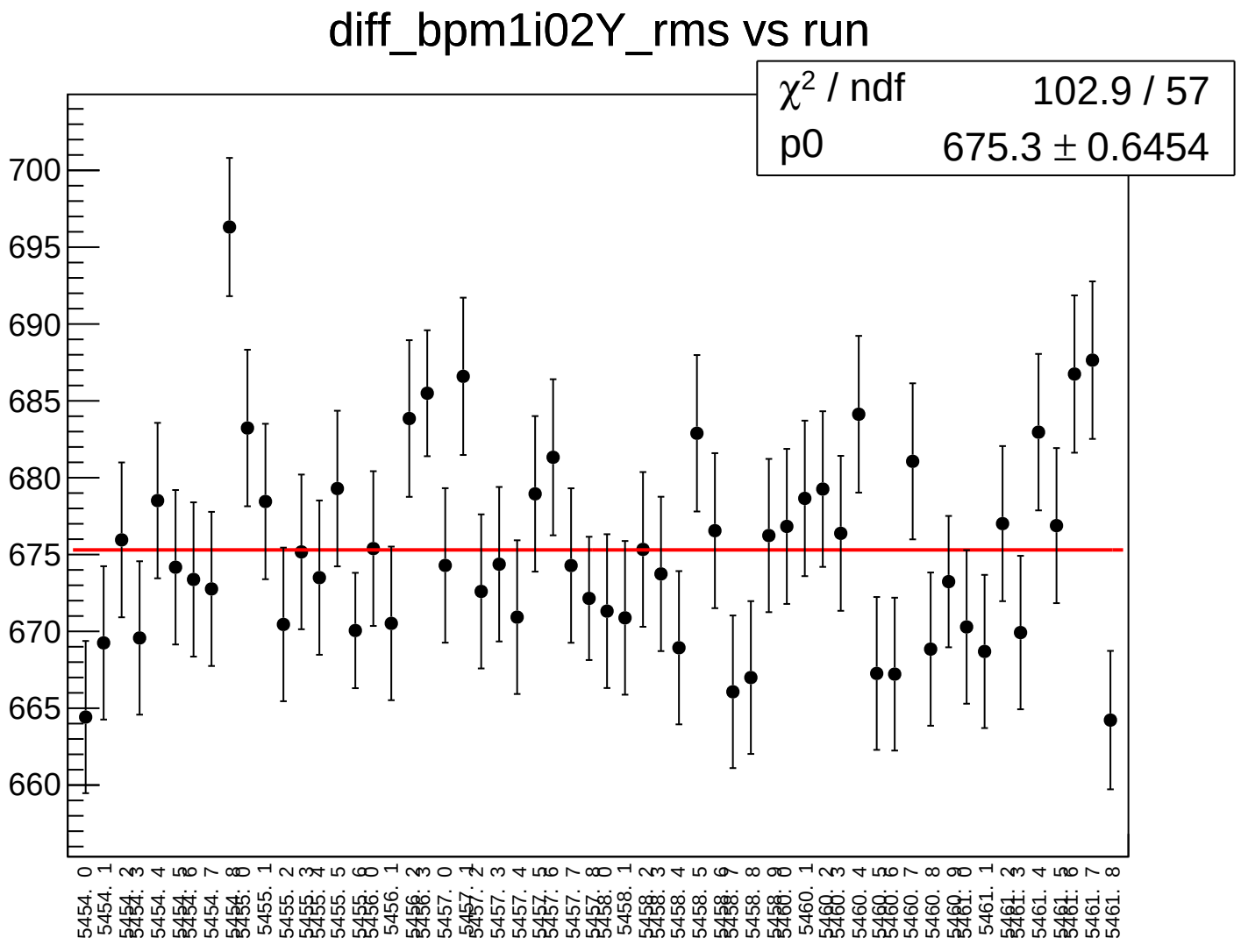

diff_bpm1i02X_mean vs run
χ² / ndf 45.24 / 57
p0 −8.764 ± 1.598
pull
Entries 58
Mean 953
Std Dev 912.5

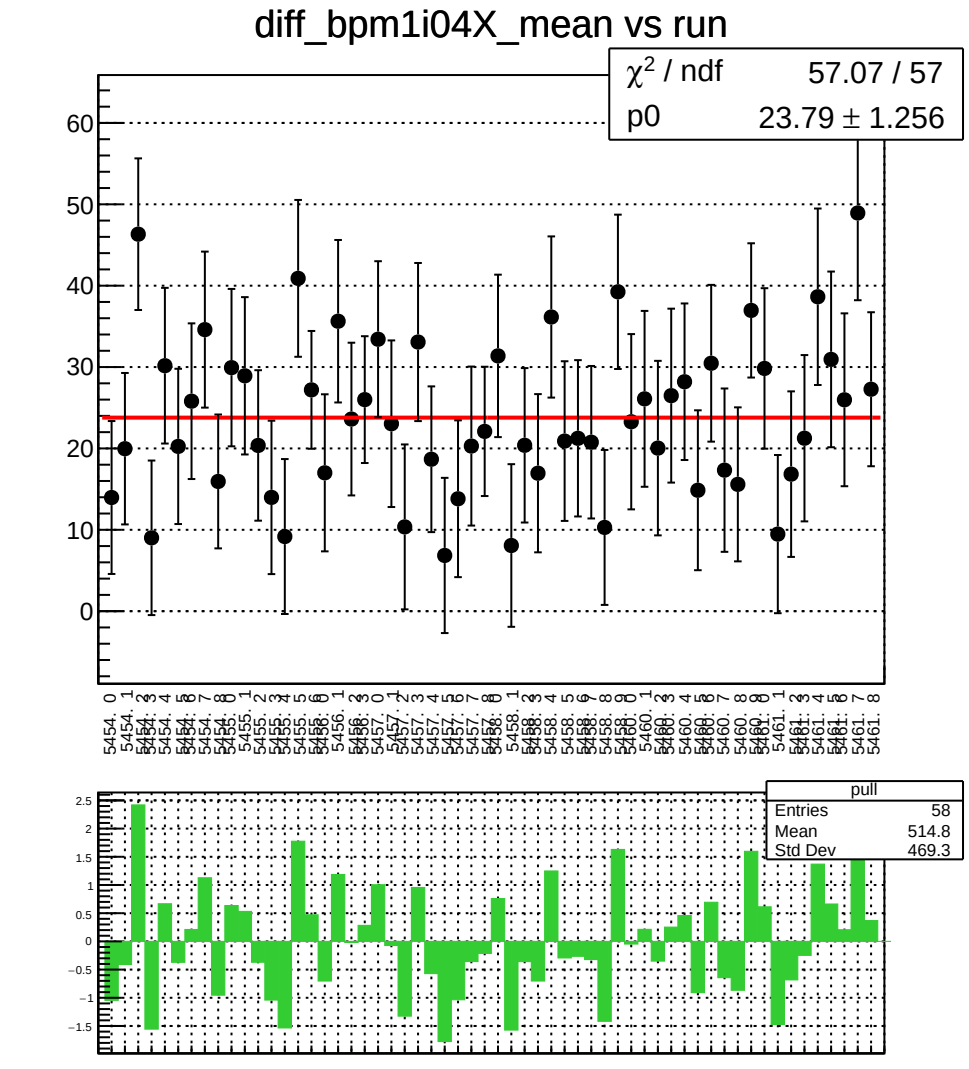

pull1D
Entries 58
Mean −0.004463
Std Dev 0.8832

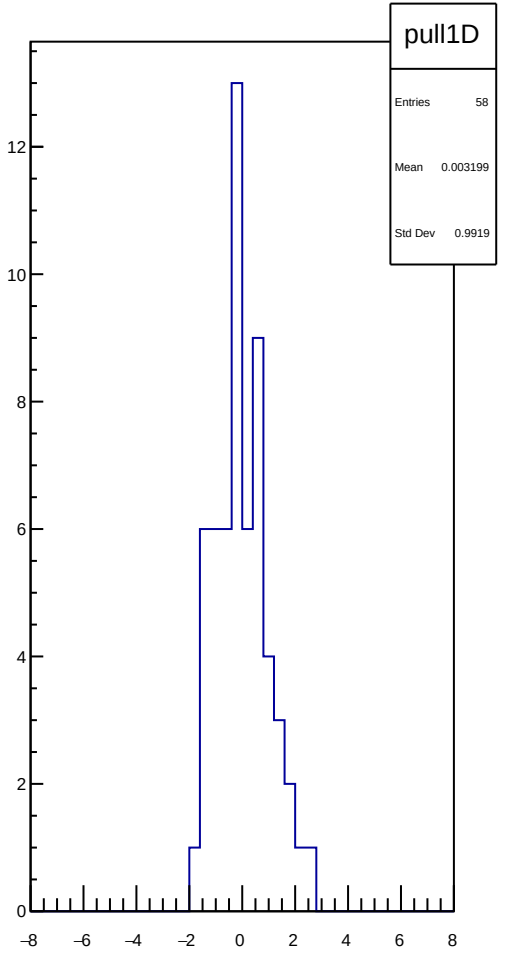

diff_bpm1i02X_rms vs run
χ² / ndf 2186 / 57
p0 1181 ± 1.13
1300
1250
1200
1150
1100
1050
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

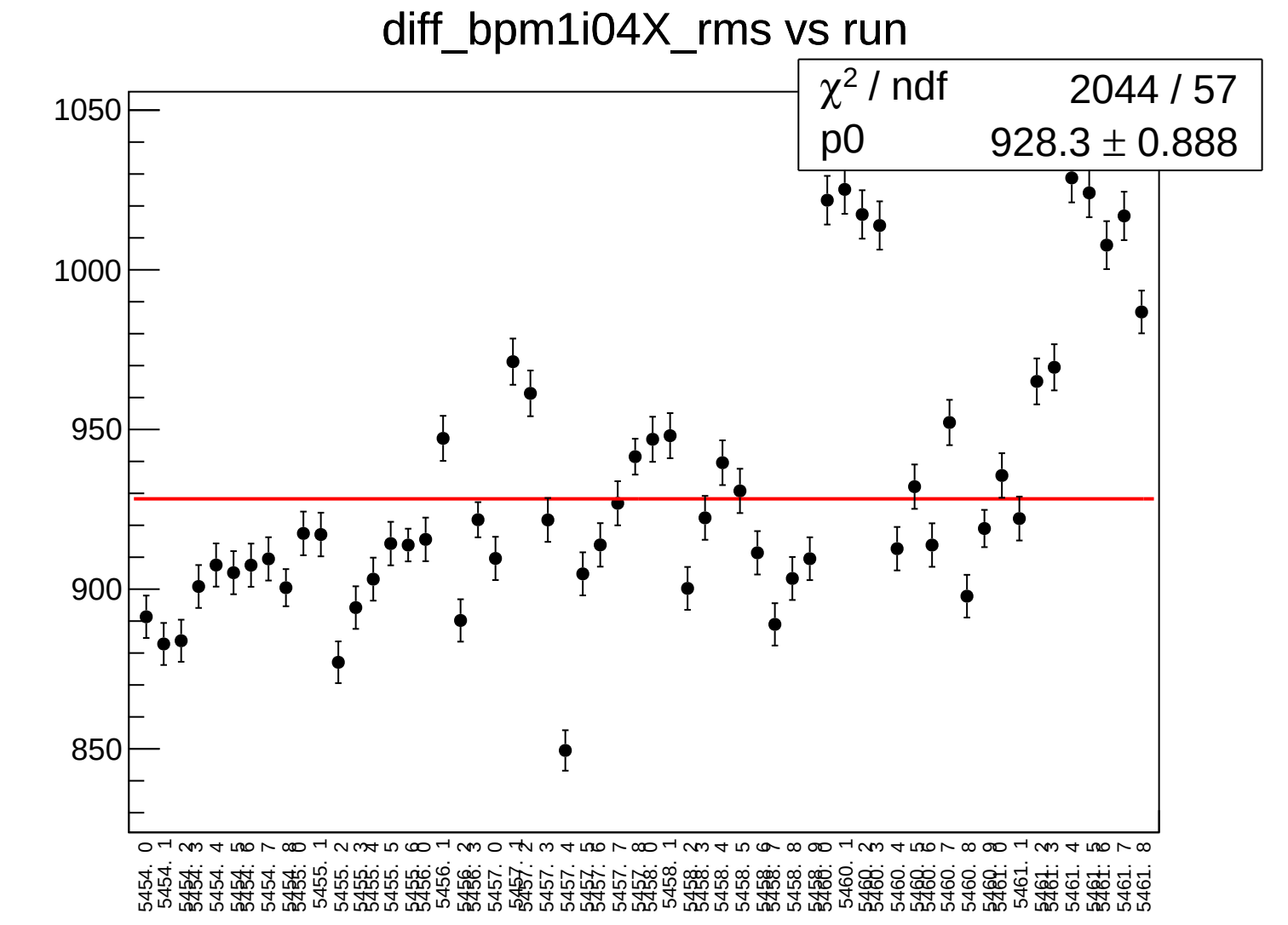

diff_bpm1i02Y_mean vs run
χ² / ndf 54.67 / 57
p0 29.8 ± 0.9127
pull
Entries 58
Mean −2553
Std Dev 2593

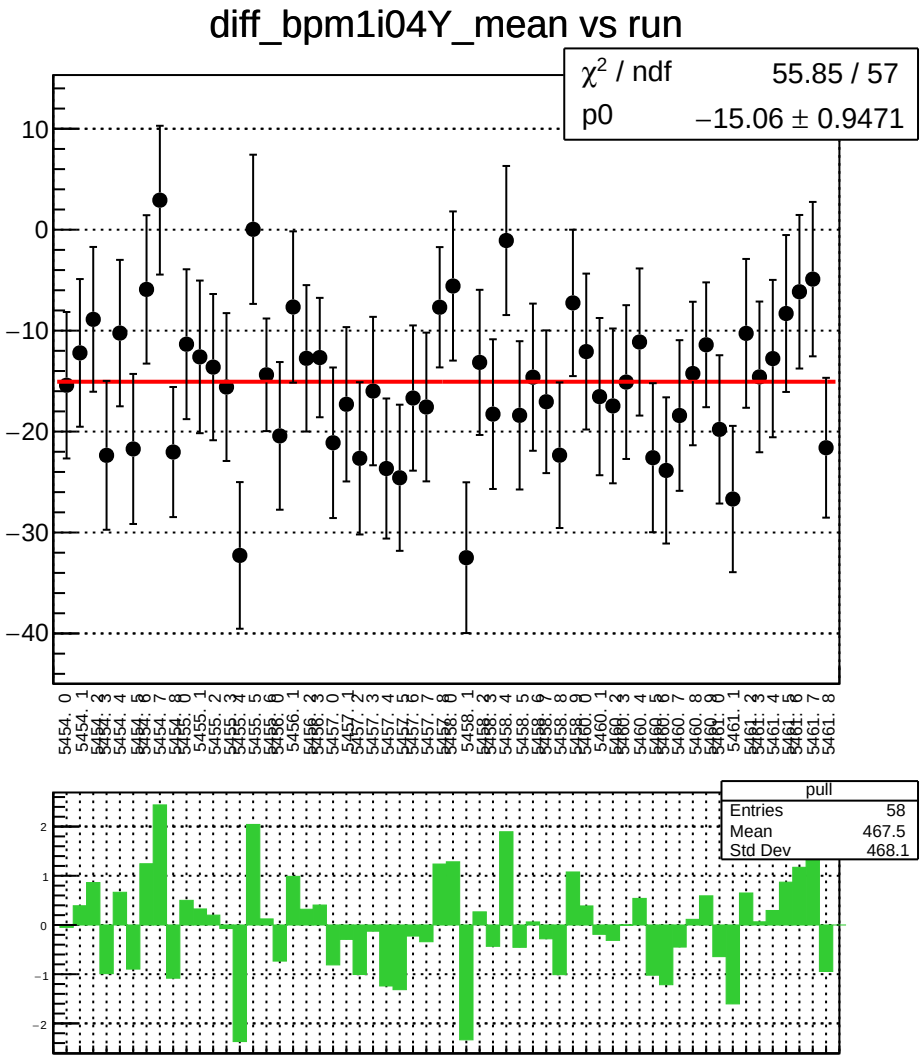

pull1D
Entries 58
Mean 0.001121
Std Dev 0.9708

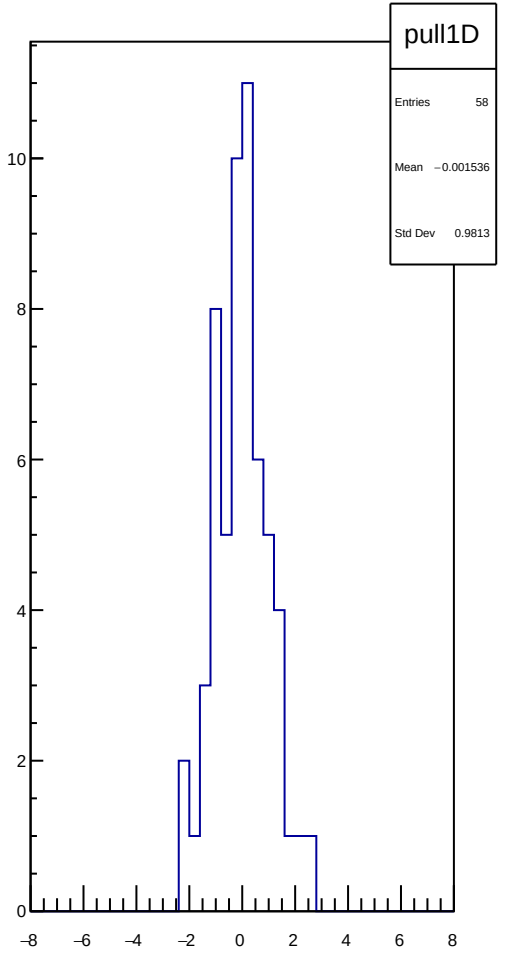

diff_bpm1i02Y_rms vs run
χ² / ndf 102.9 / 57
p0 675.3 ± 0.6454
700
695
690
685
680
675
670
665
660
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

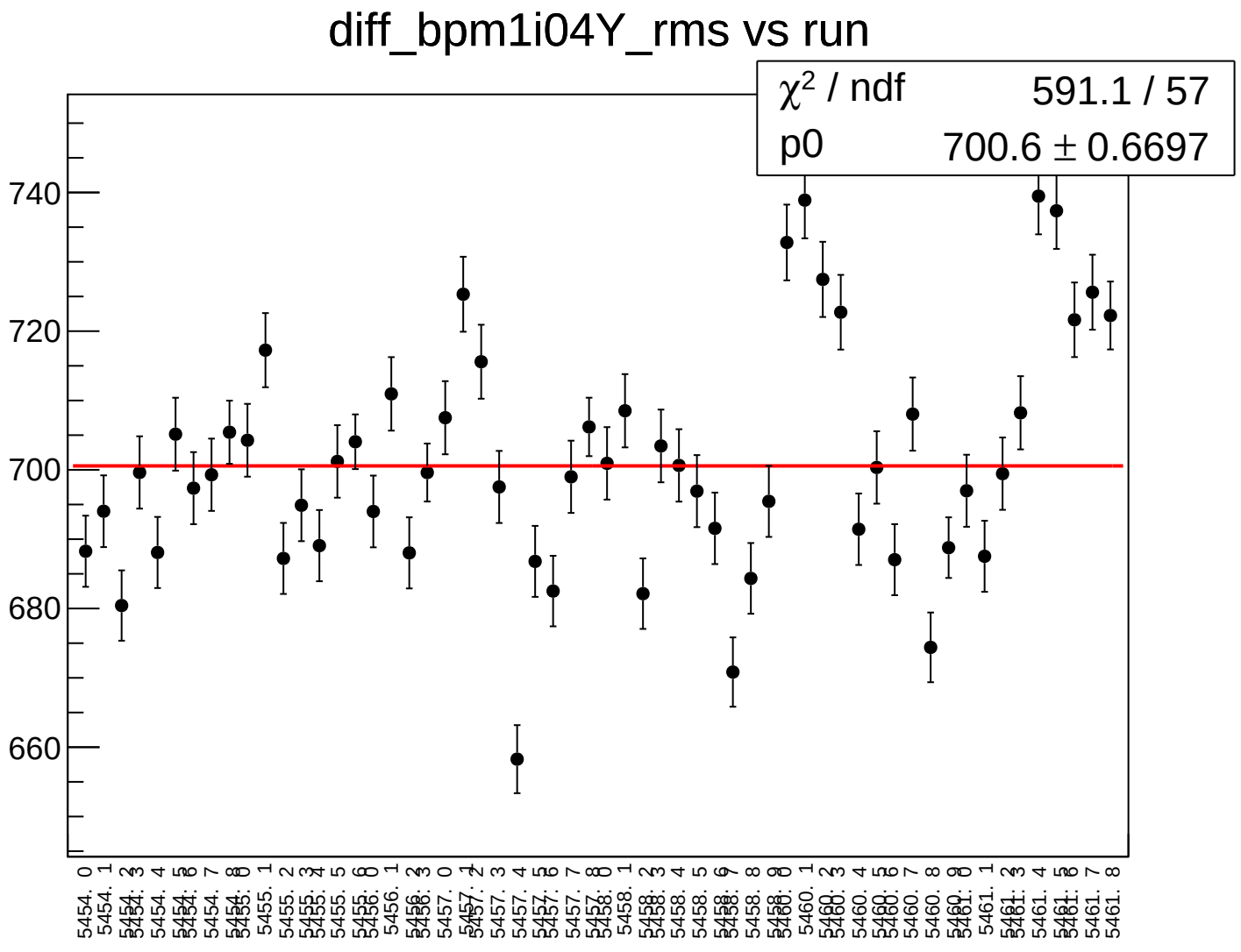

diff_bpm1i04X_mean vs run
χ^2 / ndf 57.07 / 57
p0 23.79 ± 1.256
pull
Entries 58
Mean 514.8
Std Dev 469.3

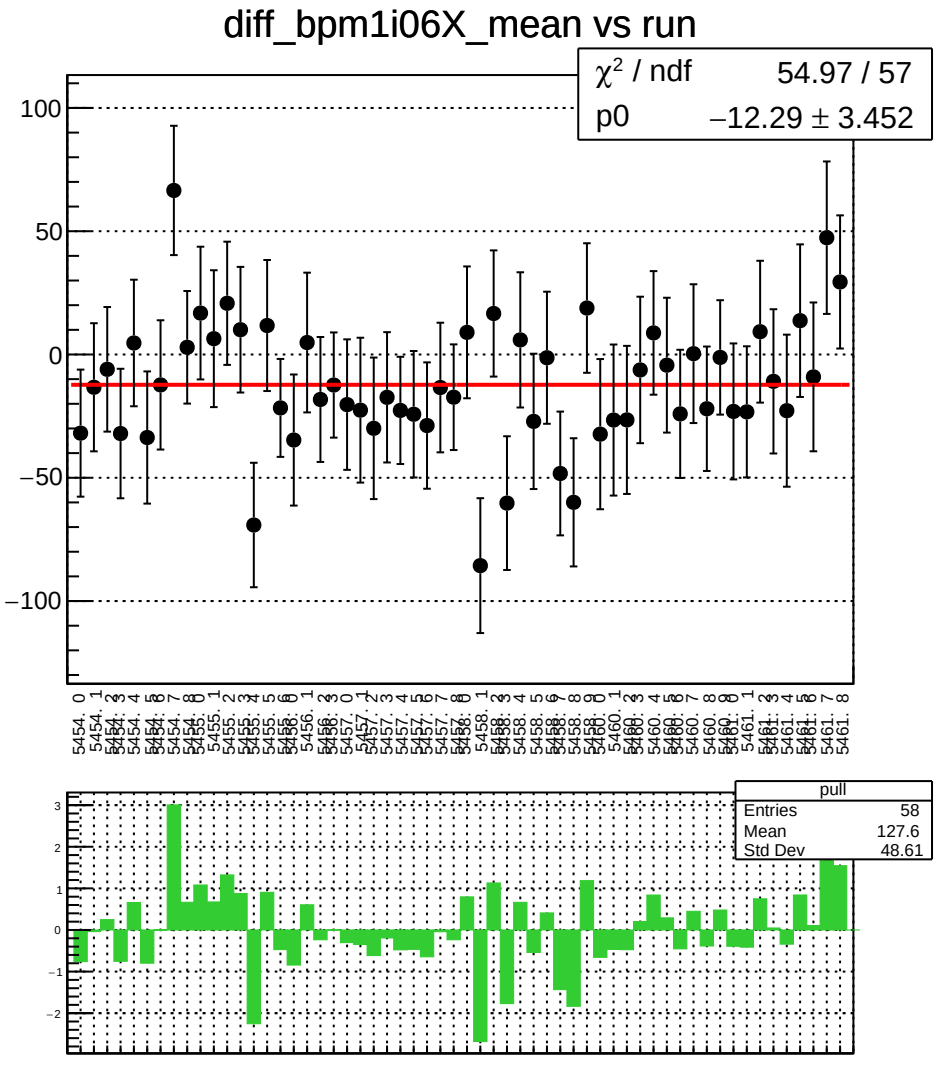

pull1D
Entries 58
Mean 0.003199
Std Dev 0.9919

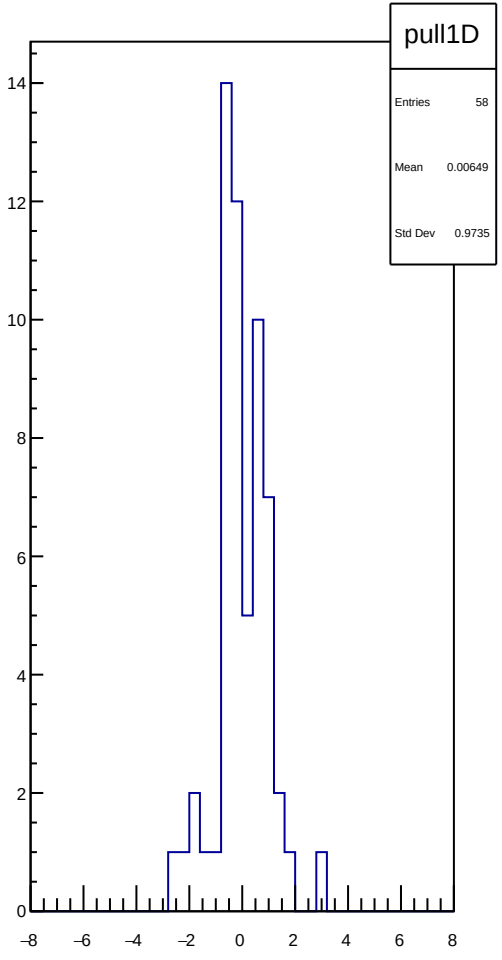

diff_bpm1i04X_rms vs run
χ² / ndf 2044 / 57
p0 928.3 ± 0.888
1050
1000
950
900
850

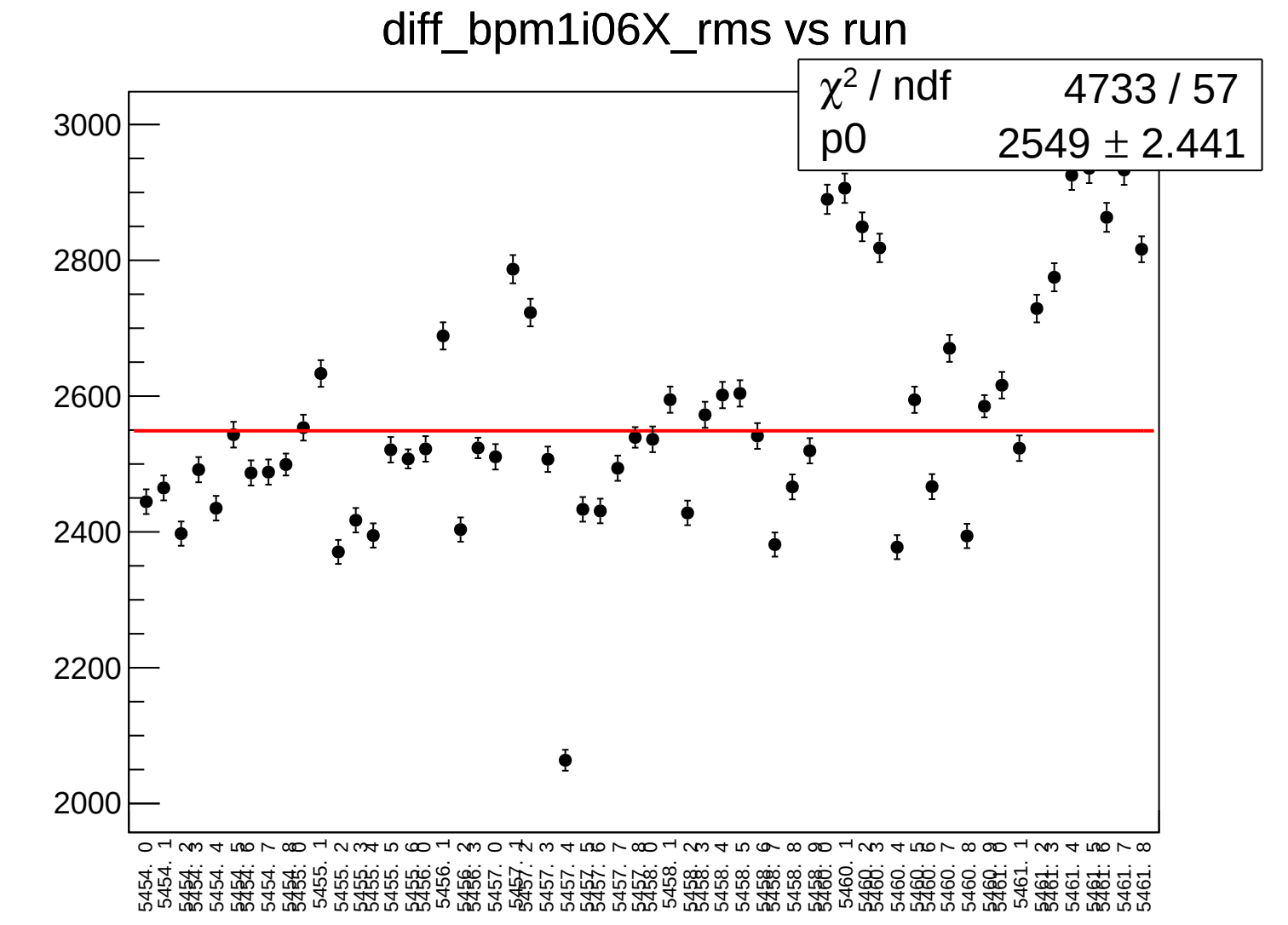

diff_bpm1i04Y_mean vs run
χ² / ndf 55.85 / 57
p0 −15.06 ± 0.9471
pull
Entries 58
Mean 467.5
Std Dev 468.1

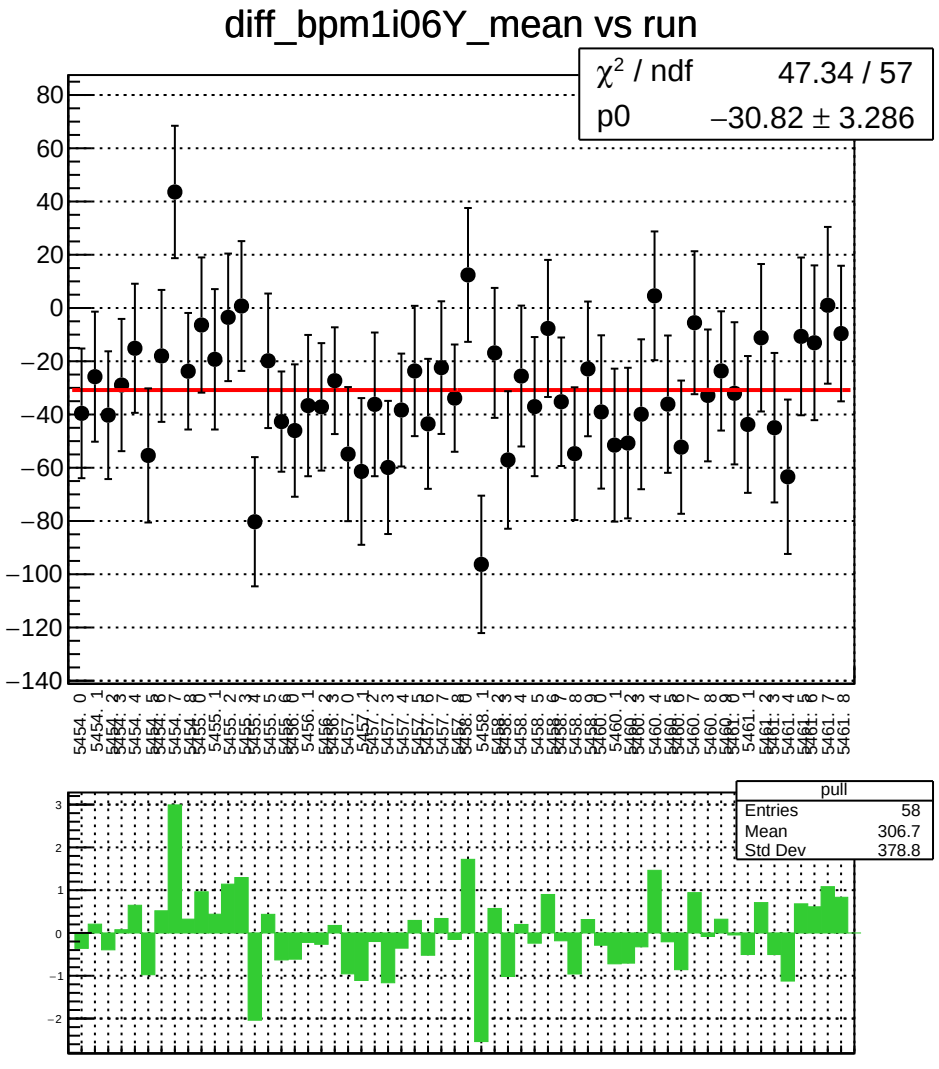

pull1D
Entries 58
Mean −0.001536
Std Dev 0.9813

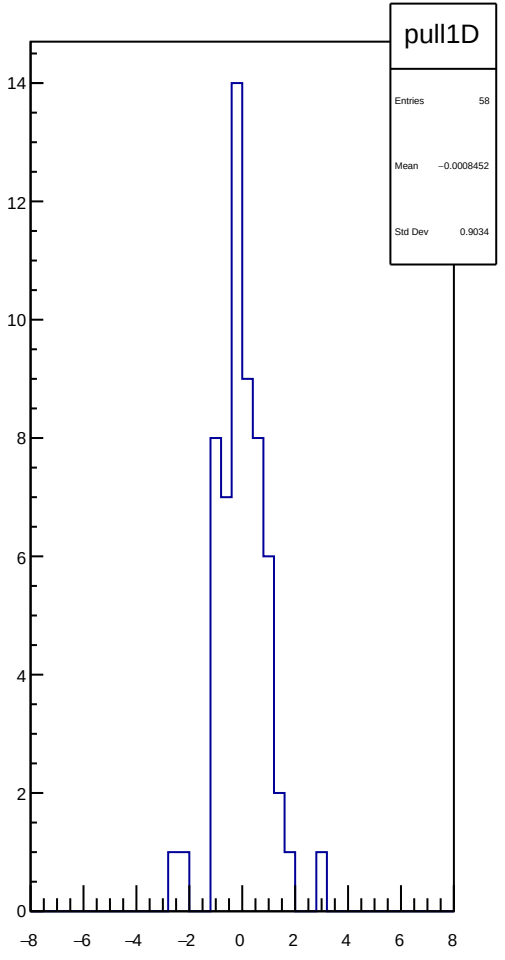

diff_bpm1i04Y_rms vs run
χ² / ndf 591.1 / 57
p0 700.6 ± 0.6697
740
720
700
680
660
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

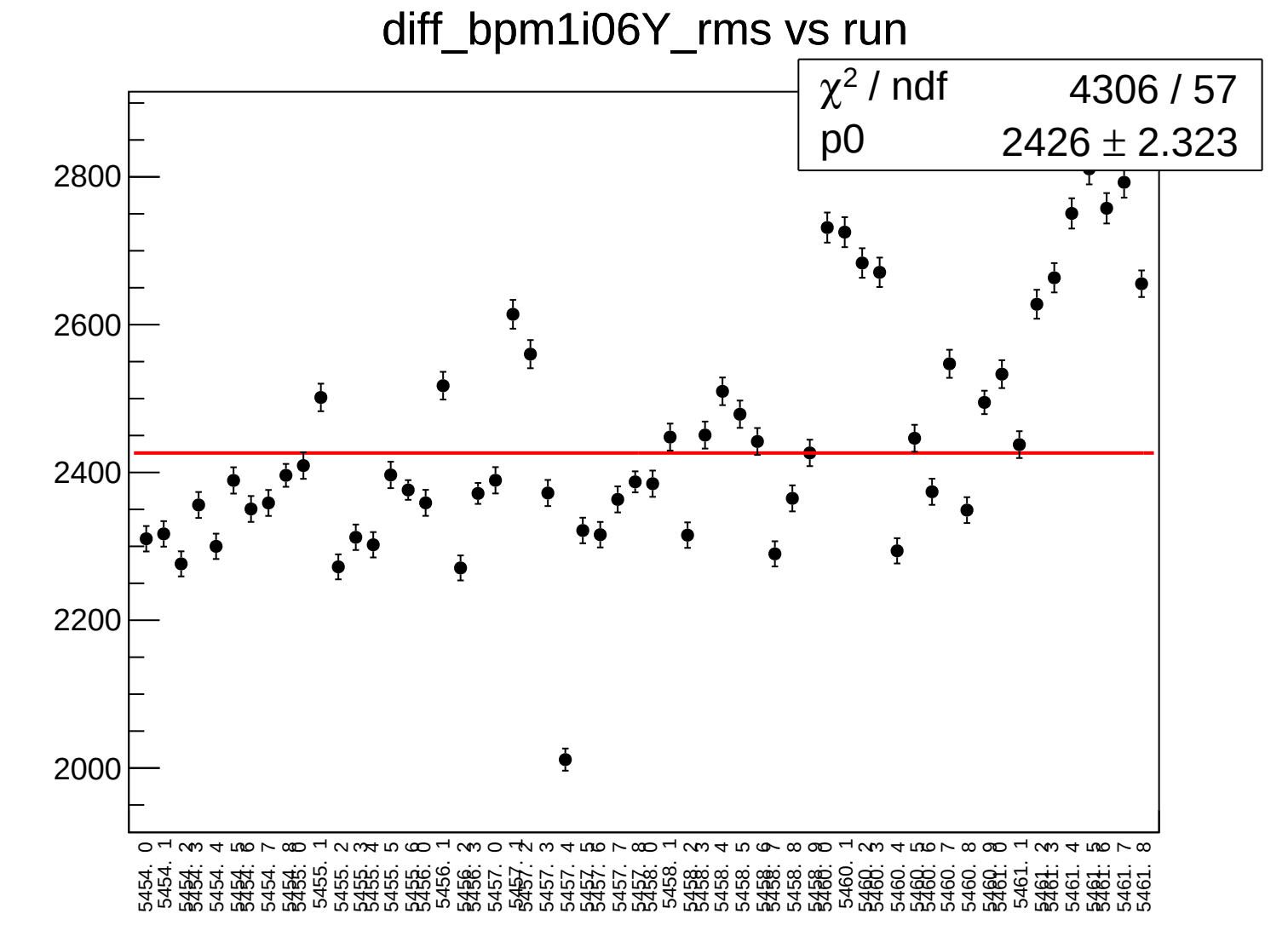

diff_bpm1i06X_mean vs run
χ² / ndf 54.97 / 57
p0 −12.29 ± 3.452
pull
Entries 58
Mean 127.6
Std Dev 48.61

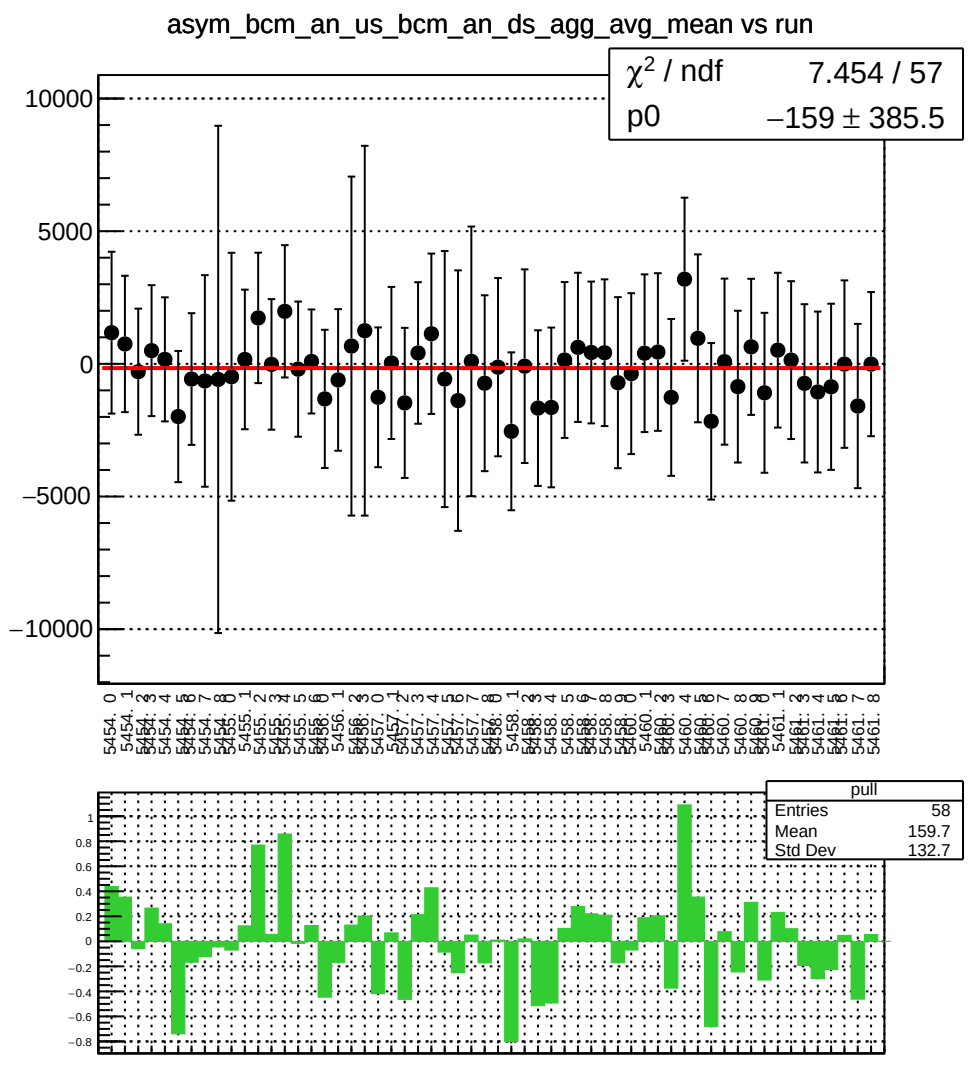

pull1D
Entries 58
Mean 0.00649
Std Dev 0.9735

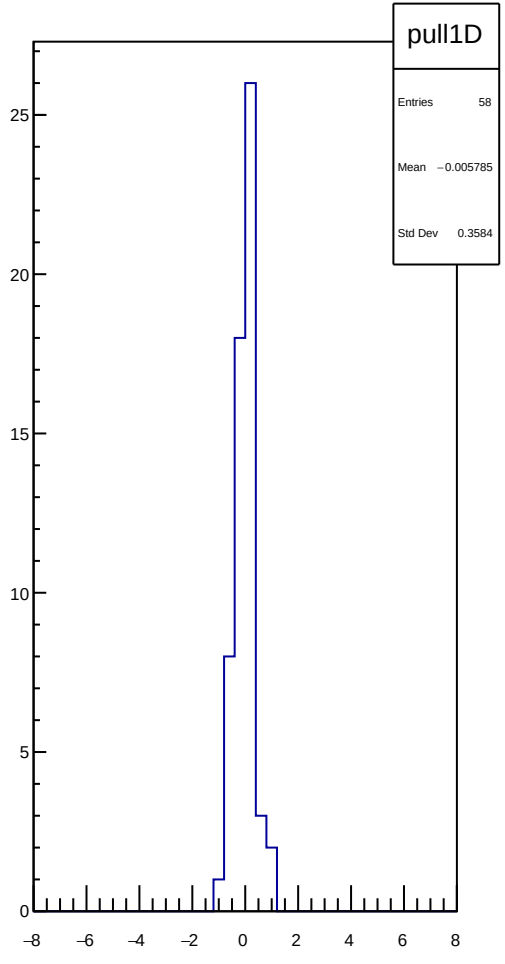

diff_bpm1i06X_rms vs run
χ² / ndf 4733 / 57
p0 2549 ± 2.441
3000
2800
2600
2400
2200
2000

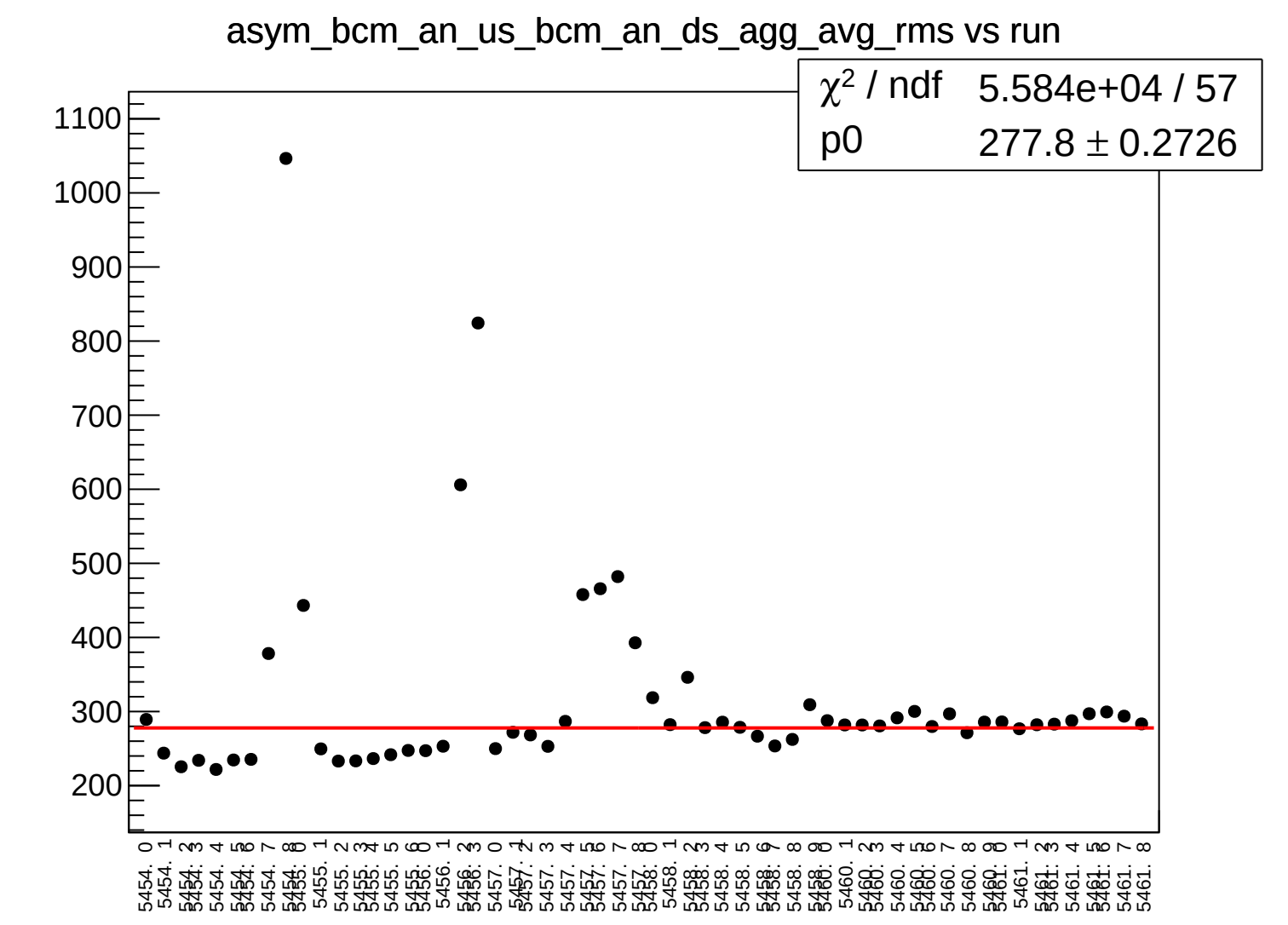

diff_bpm1i06Y_mean vs run
χ² / ndf 47.34 / 57
p0 −30.82 ± 3.286
pull
Entries 58
Mean 306.7
Std Dev 378.8

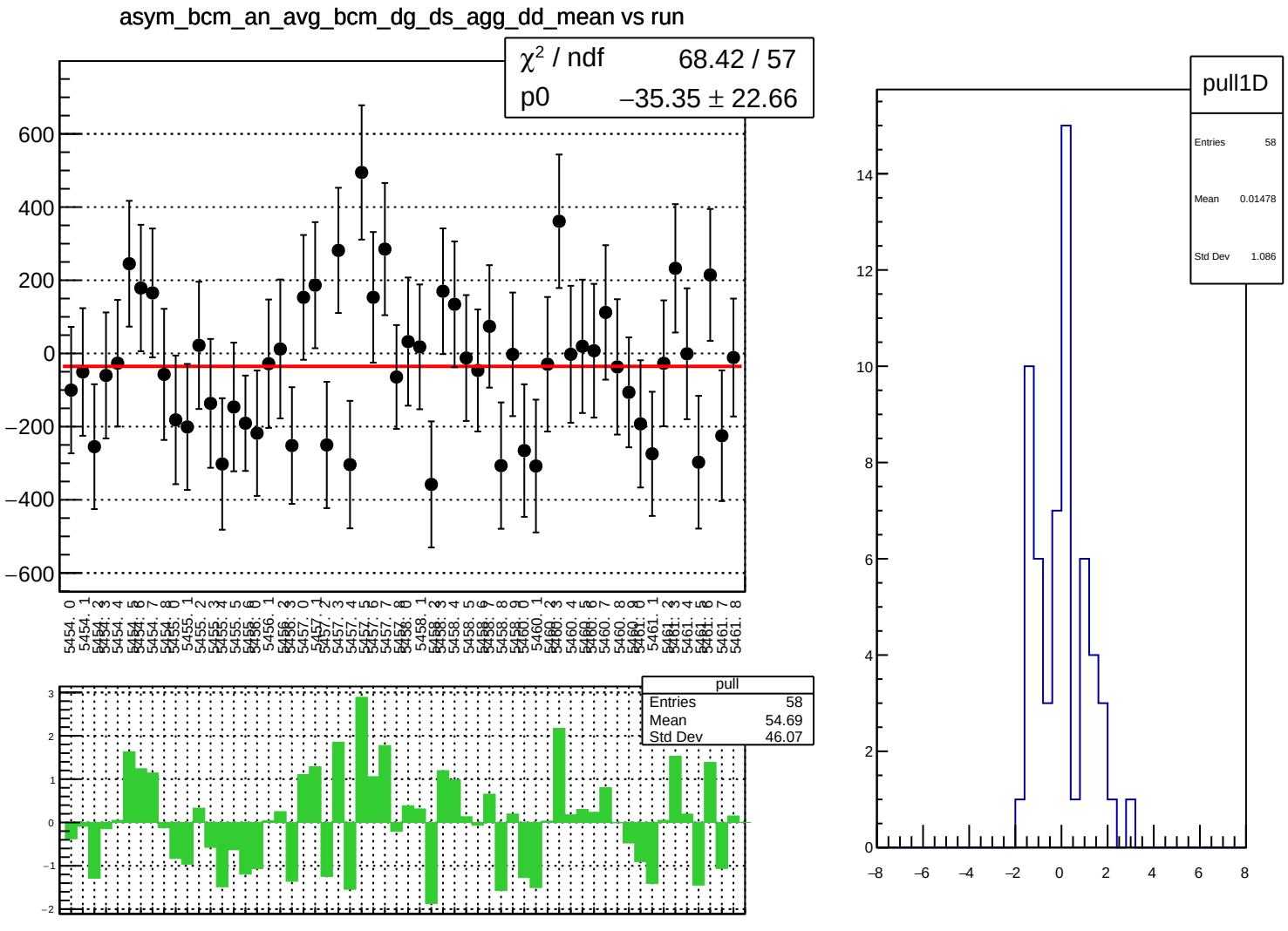

pull1D
Entries 58
Mean −0.0008452
Std Dev 0.9034

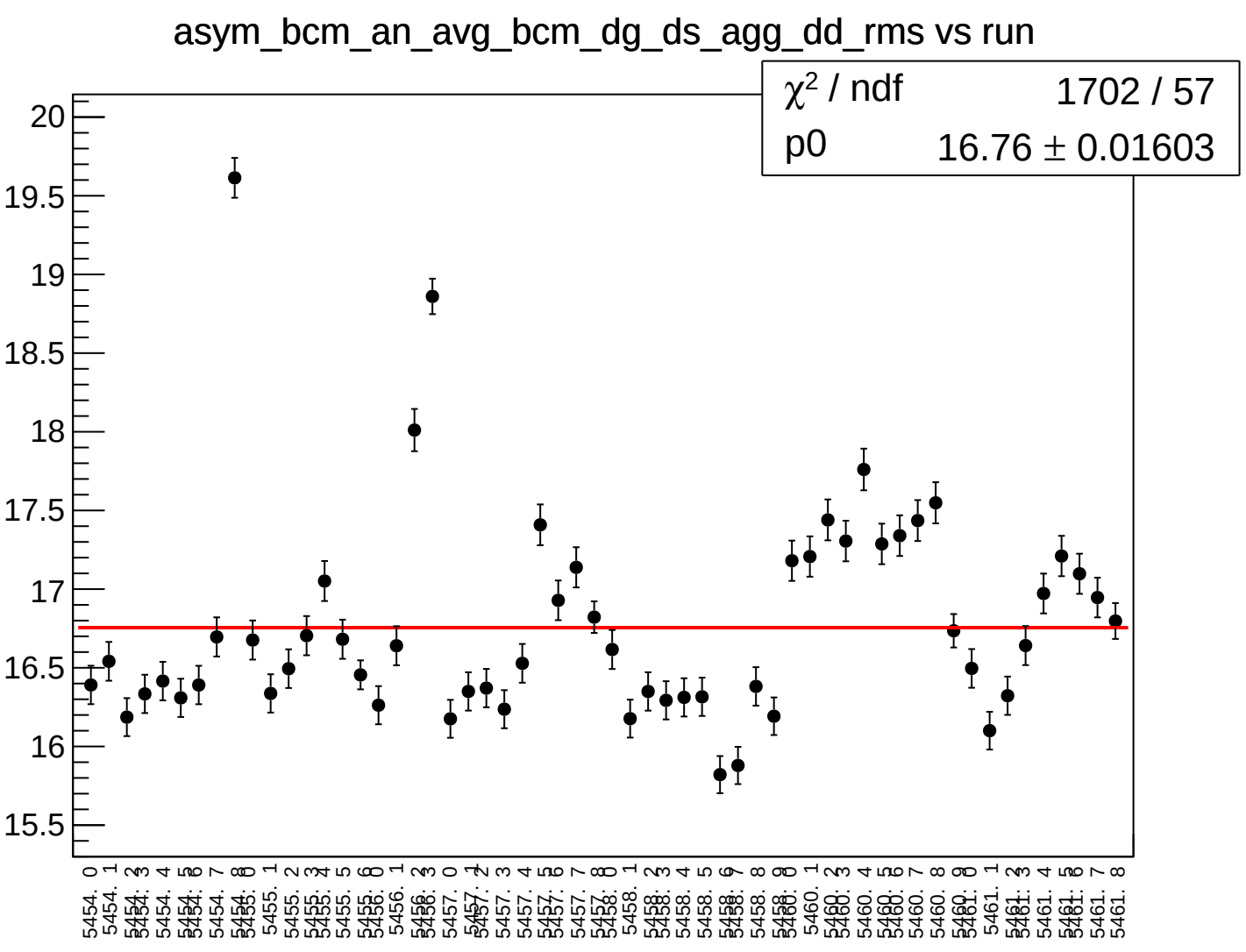

diff_bpm1i06Y_rms vs run
χ² / ndf 4306 / 57
p0 2426 ± 2.323
2800
2600
2400
2200
2000
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5454. 9
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5455. 7
5456. 0
5456. 1
5456. 2
5456. 3
5456. 4
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

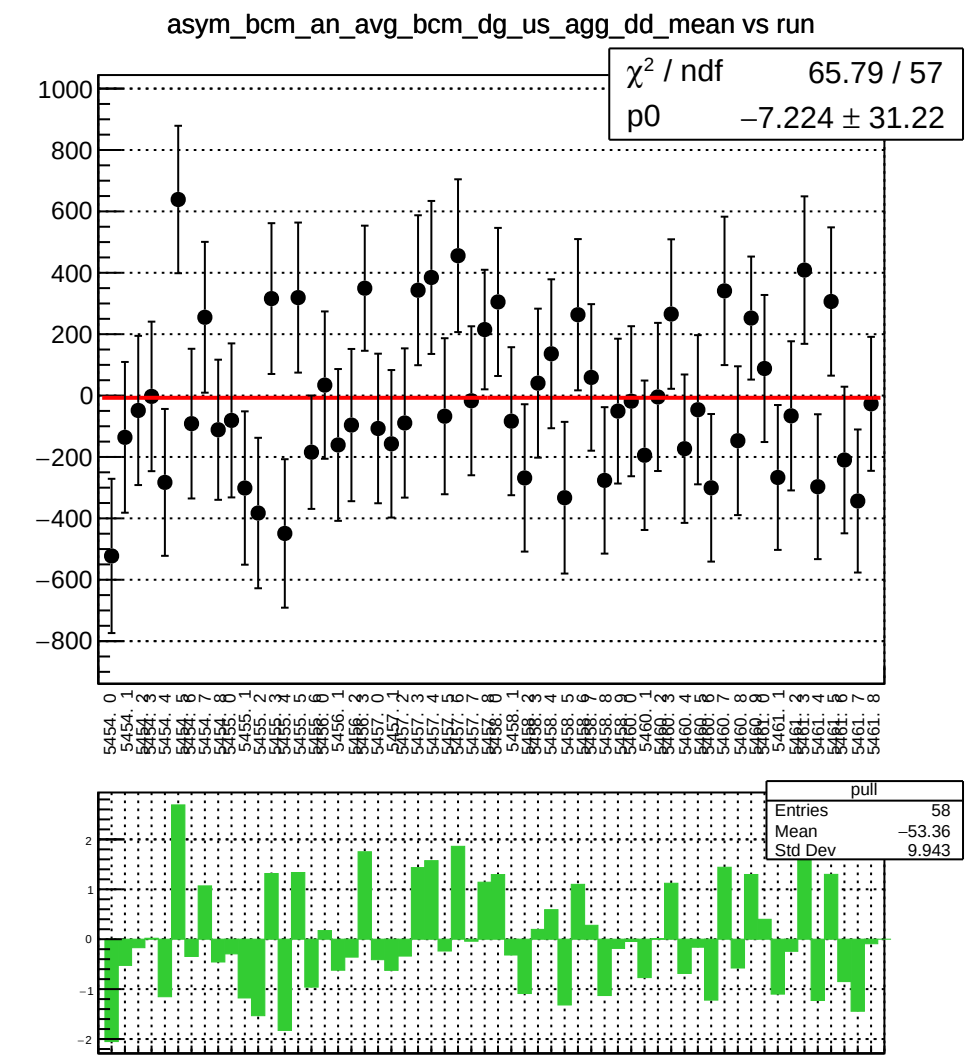

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 7.454 / 57
p0 −159 ± 385.5
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 159.7
Std Dev 132.7
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

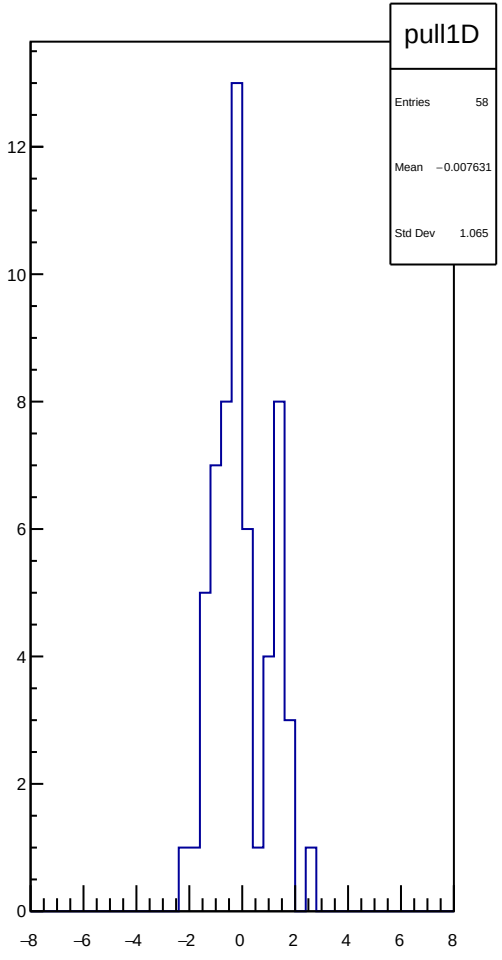

pull1D
Entries 58
Mean −0.005785
Std Dev 0.3584
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

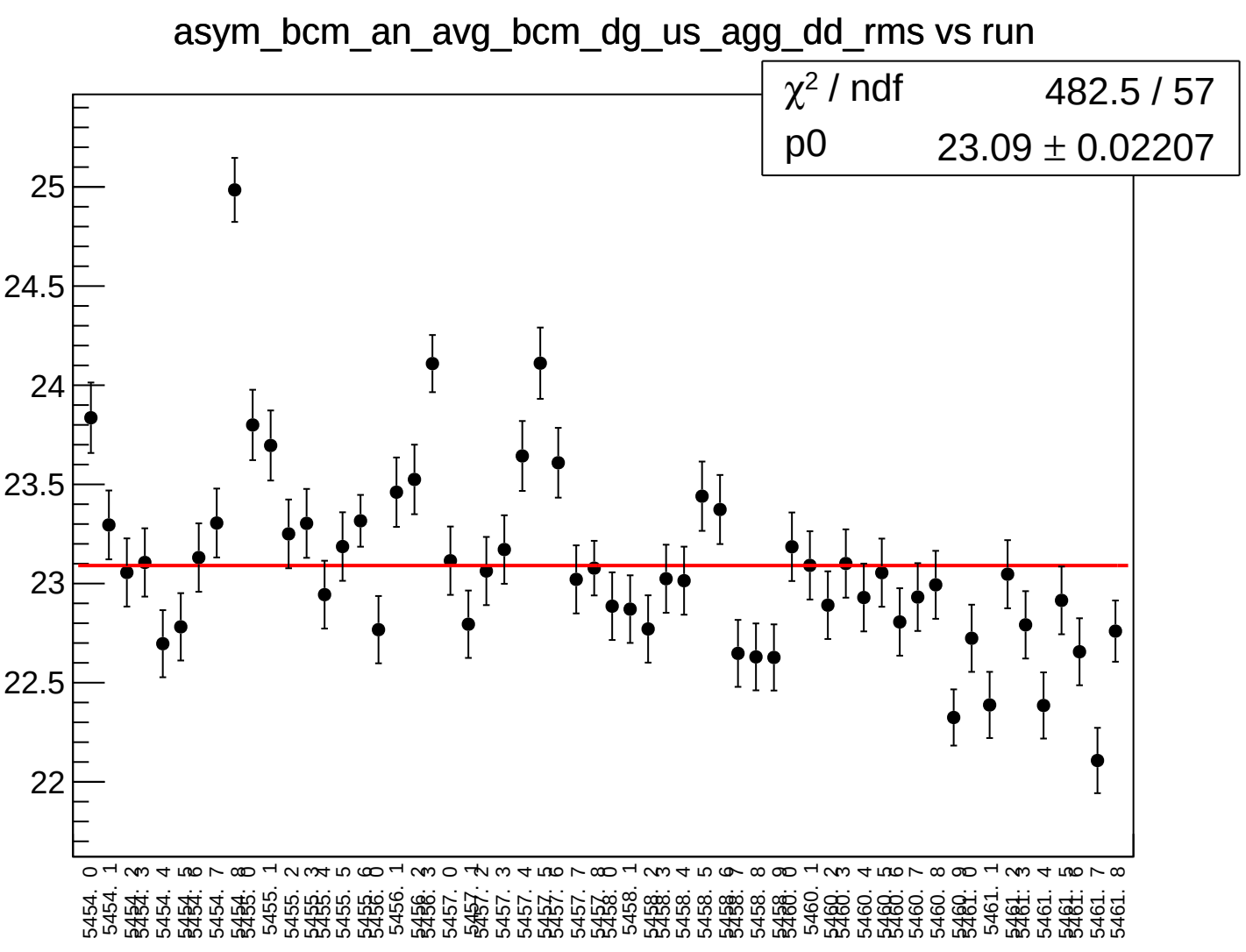

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.584e+04 / 57
p0 277.8 ± 0.2726
1100
1000
900
800
700
600
500
400
300
200

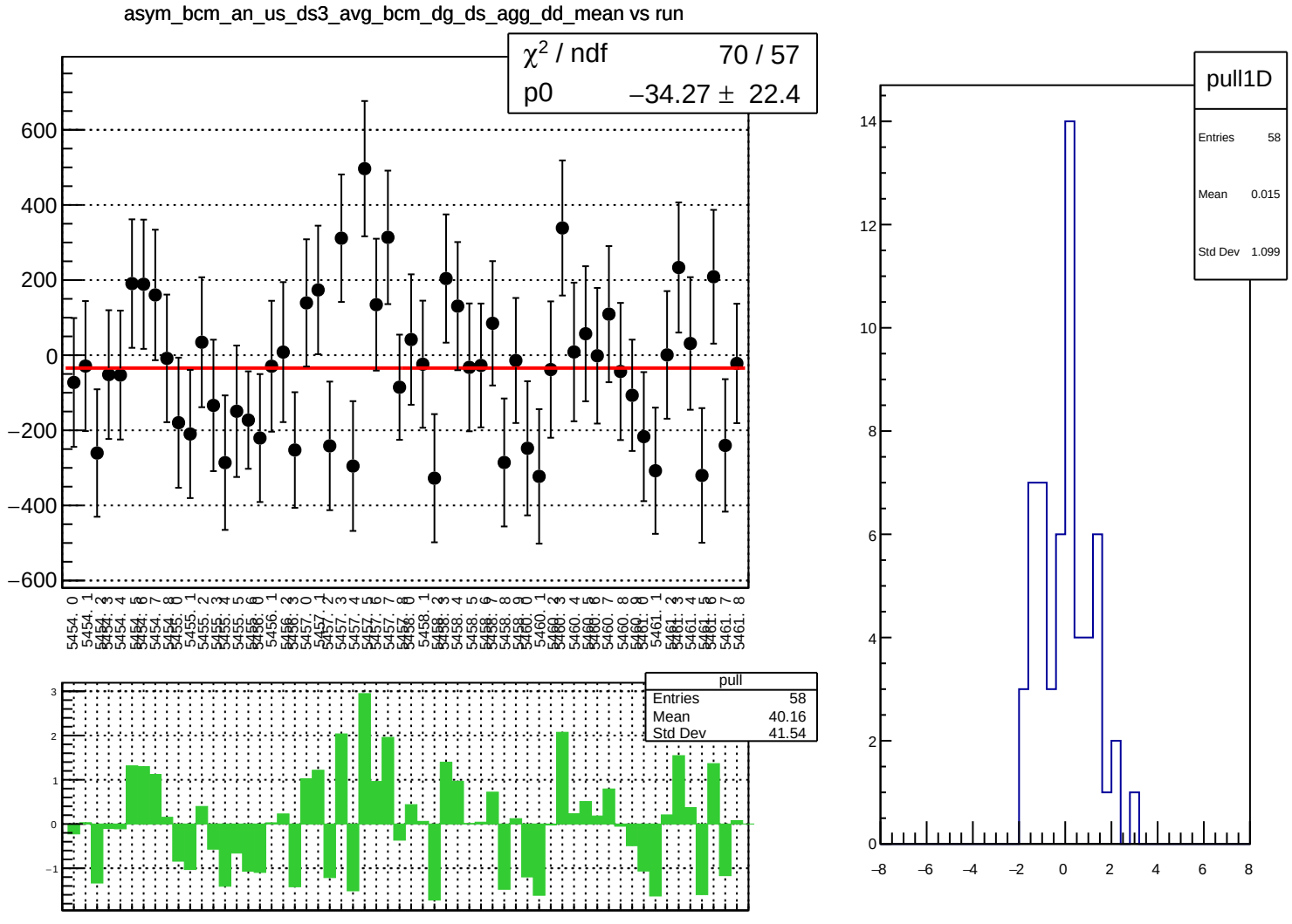

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.42 / 57
p0 −35.35 ± 22.66
pull
Entries 58
Mean 54.69
Std Dev 46.07
pull1D
Entries 58
Mean 0.01478
Std Dev 1.086

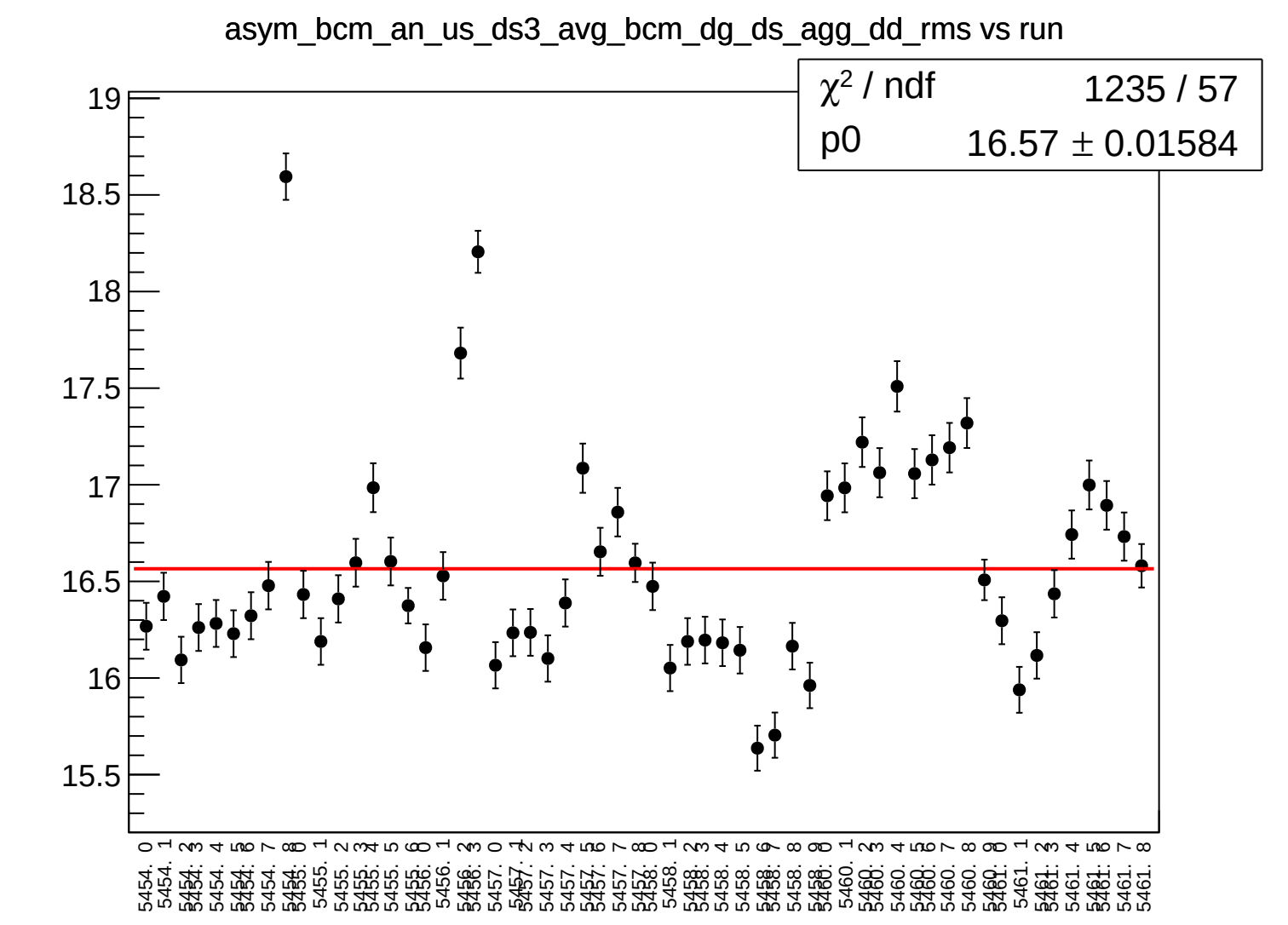

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1702 / 57
p0 16.76 ± 0.01603
20
19.5
19
18.5
18
17.5
17
16.5
16
15.5

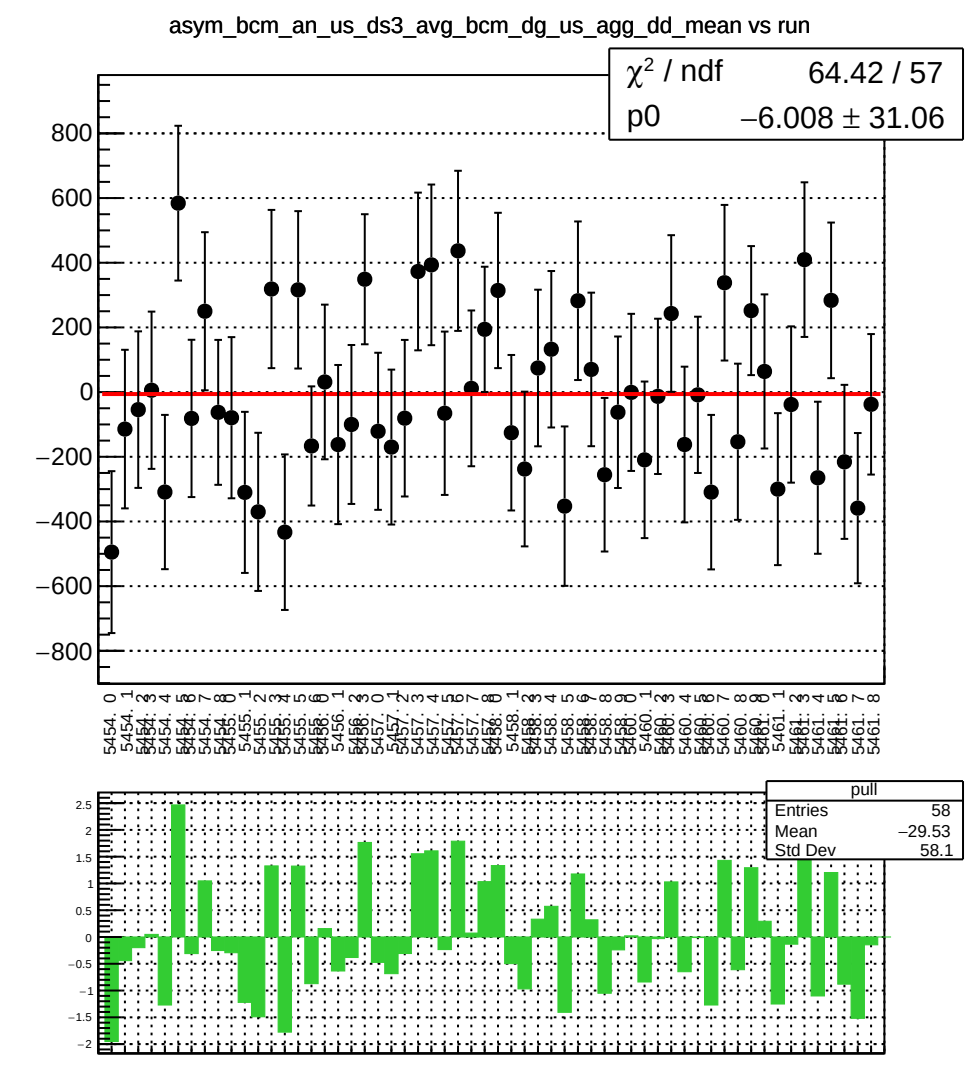

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.79 / 57
p0 −7.224 ± 31.22
pull
Entries 58
Mean −53.36
Std Dev 9.943

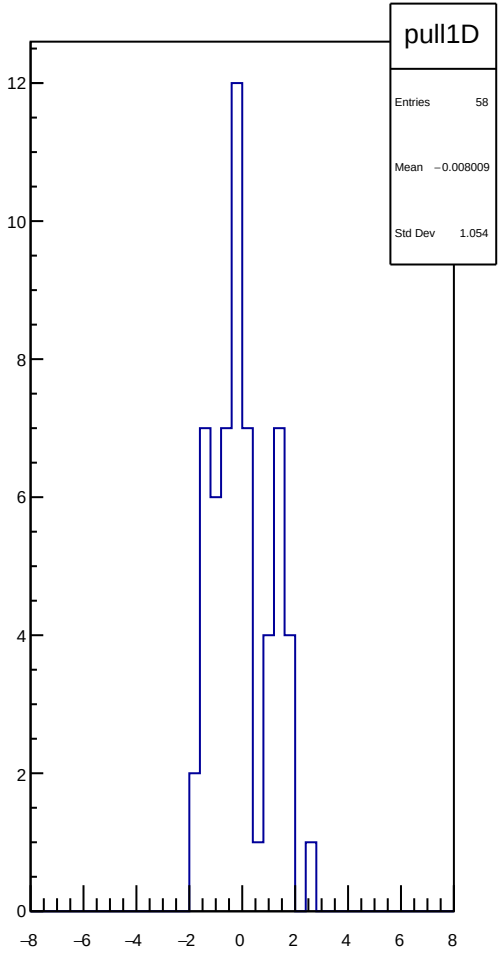

pull1D
Entries 58
Mean −0.007631
Std Dev 1.065

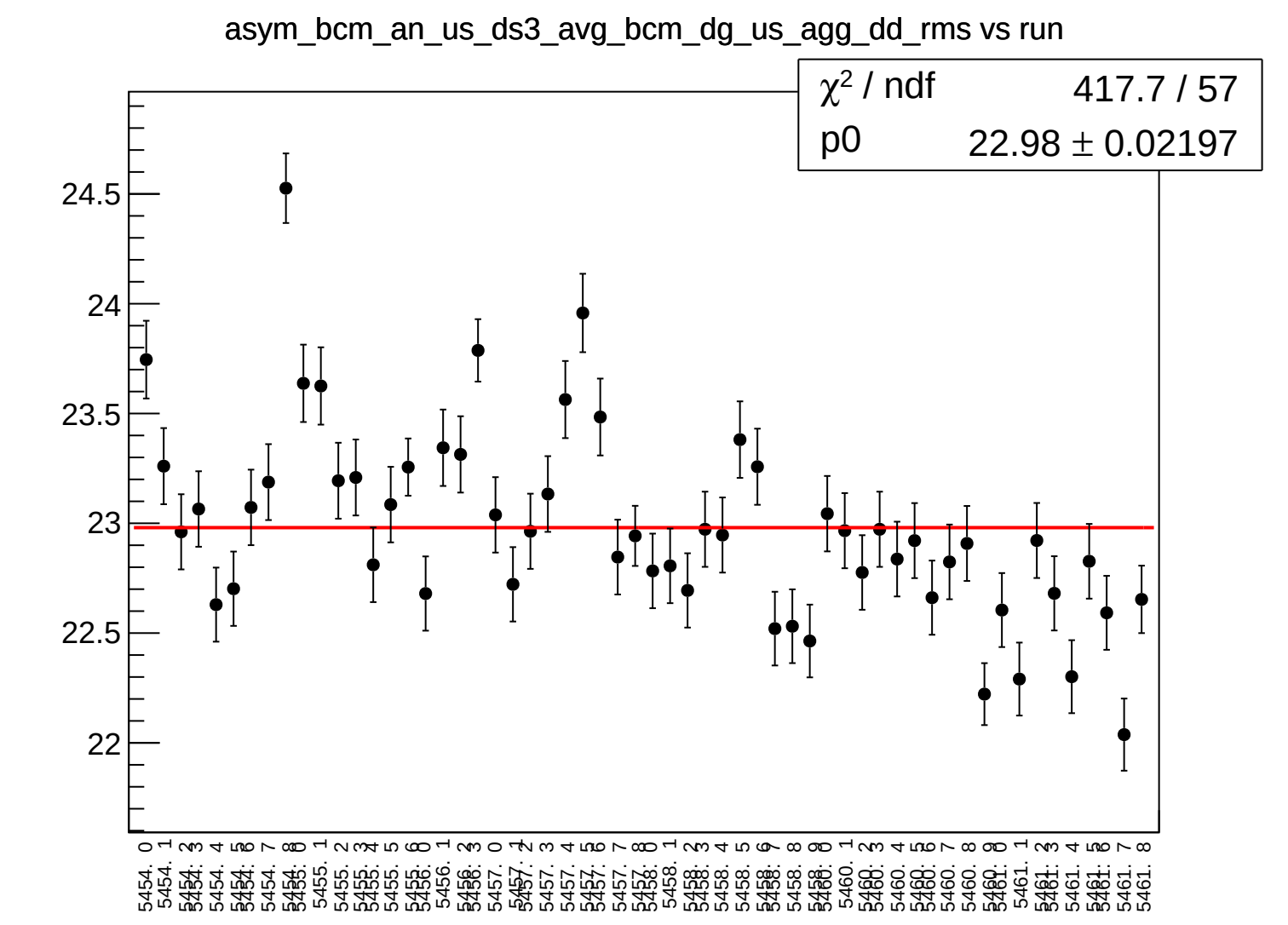

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 482.5 / 57
p0 23.09 ± 0.02207
25
24.5
24
23.5
23
22.5
22

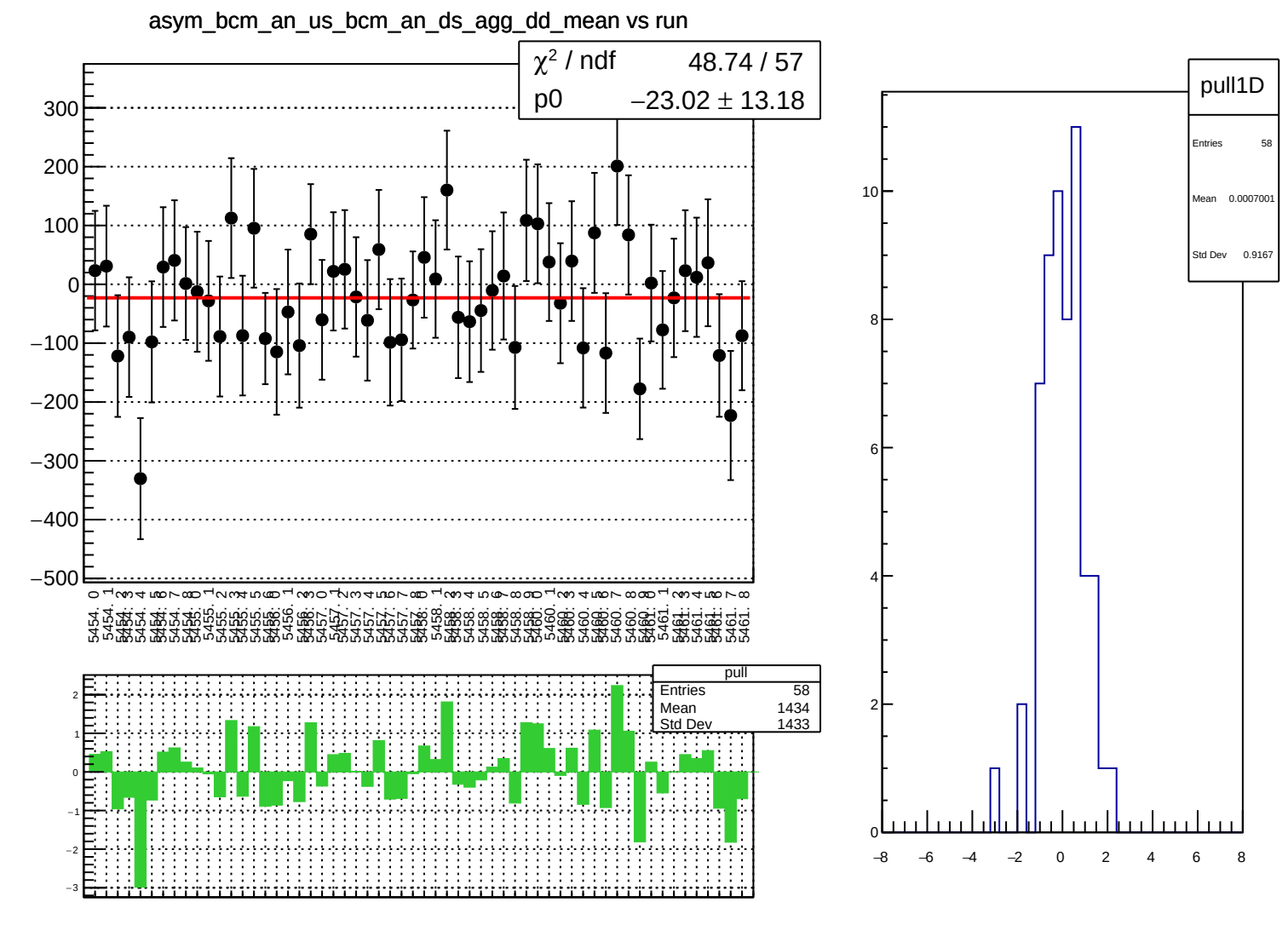

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 70 / 57
p0 −34.27 ± 22.4
pull
Entries 58
Mean 40.16
Std Dev 41.54
pull1D
Entries 58
Mean 0.015
Std Dev 1.099

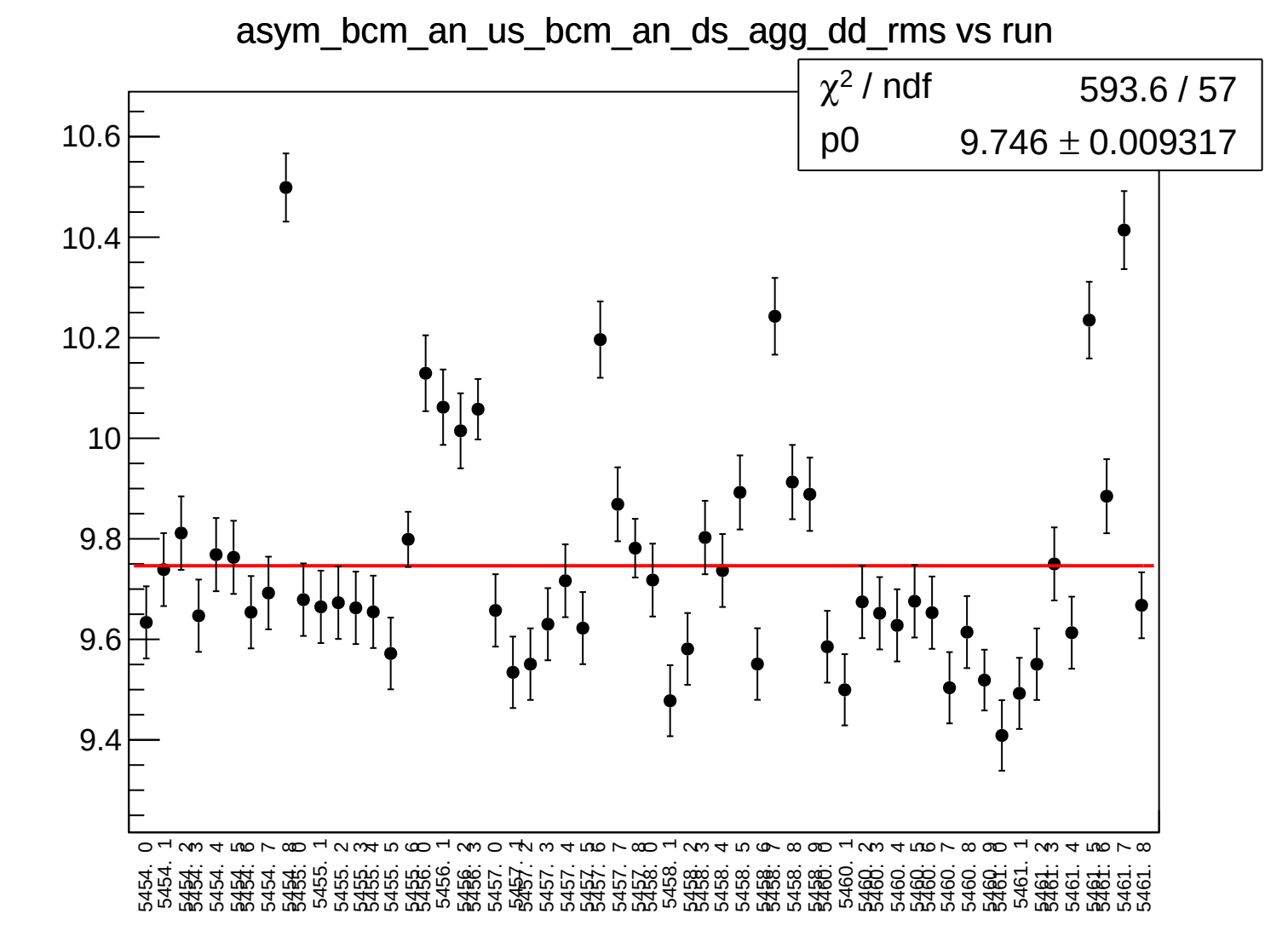

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1235 / 57
p0 16.57 ± 0.01584
19
18.5
18
17.5
17
16.5
16
15.5

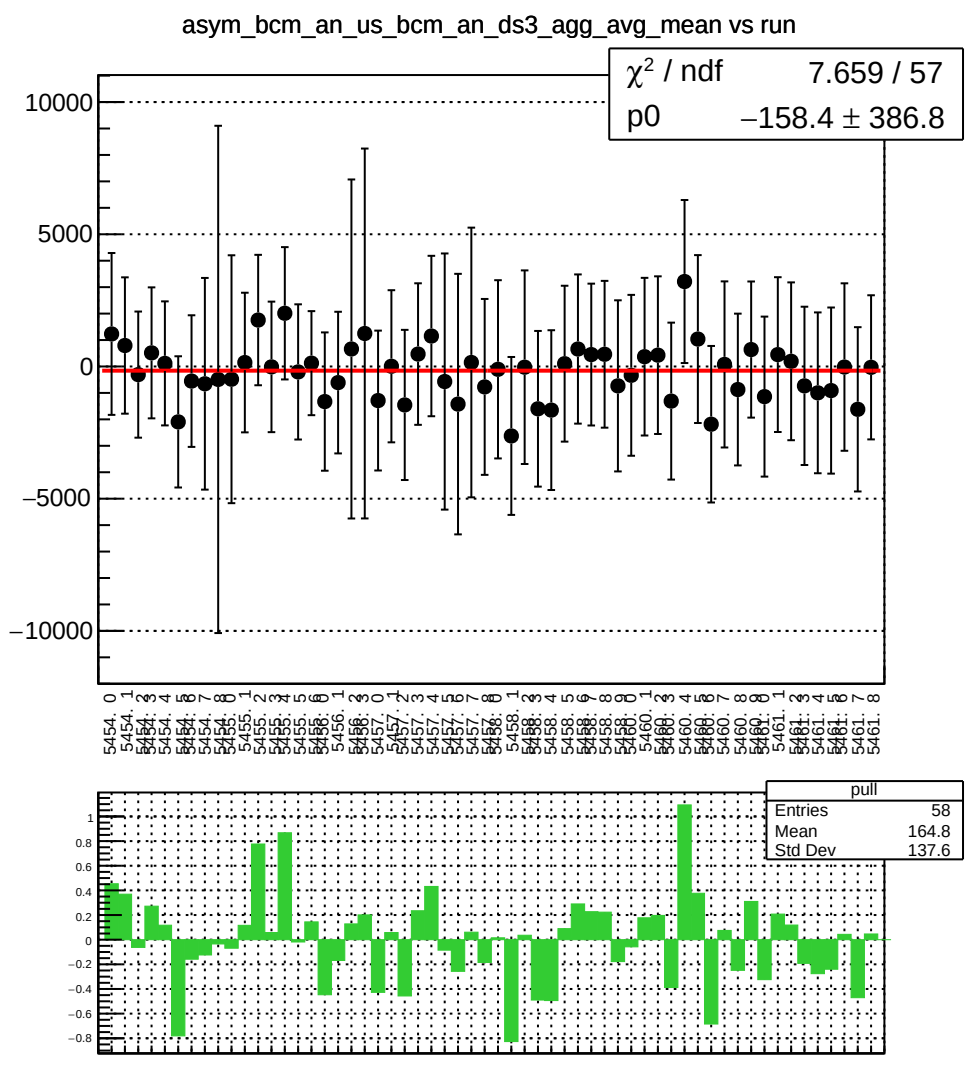

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 64.42 / 57
p0 −6.008 ± 31.06
pull
Entries 58
Mean −29.53
Std Dev 58.1

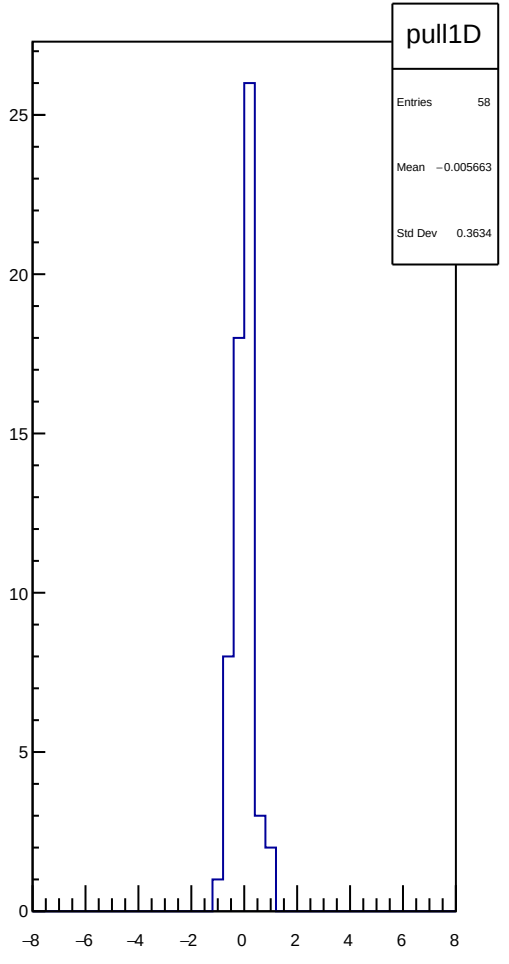

pull1D
Entries 58
Mean −0.008009
Std Dev 1.054

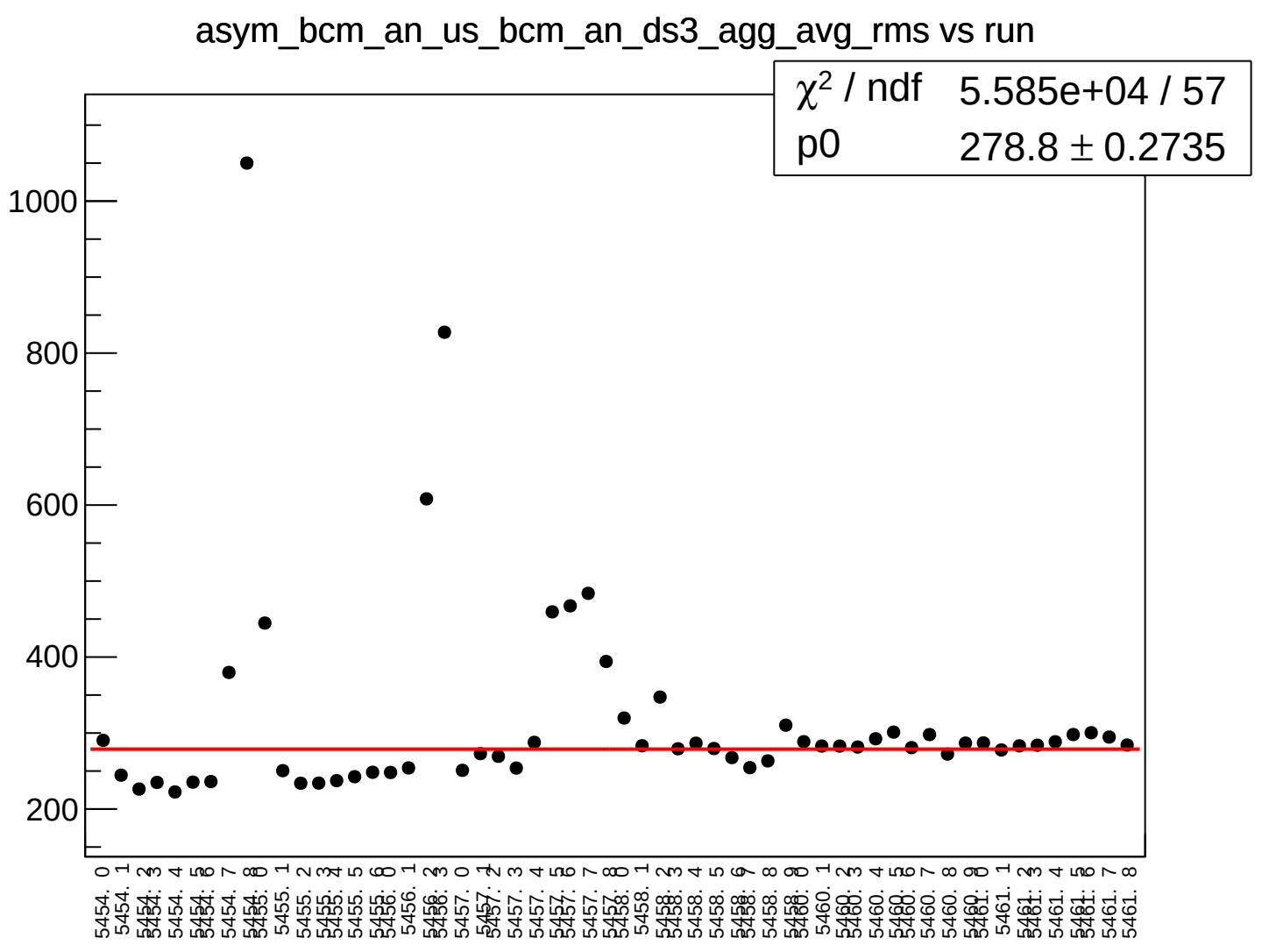

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 417.7 / 57
p0 22.98 ± 0.02197
24.5
24
23.5
23
22.5
22

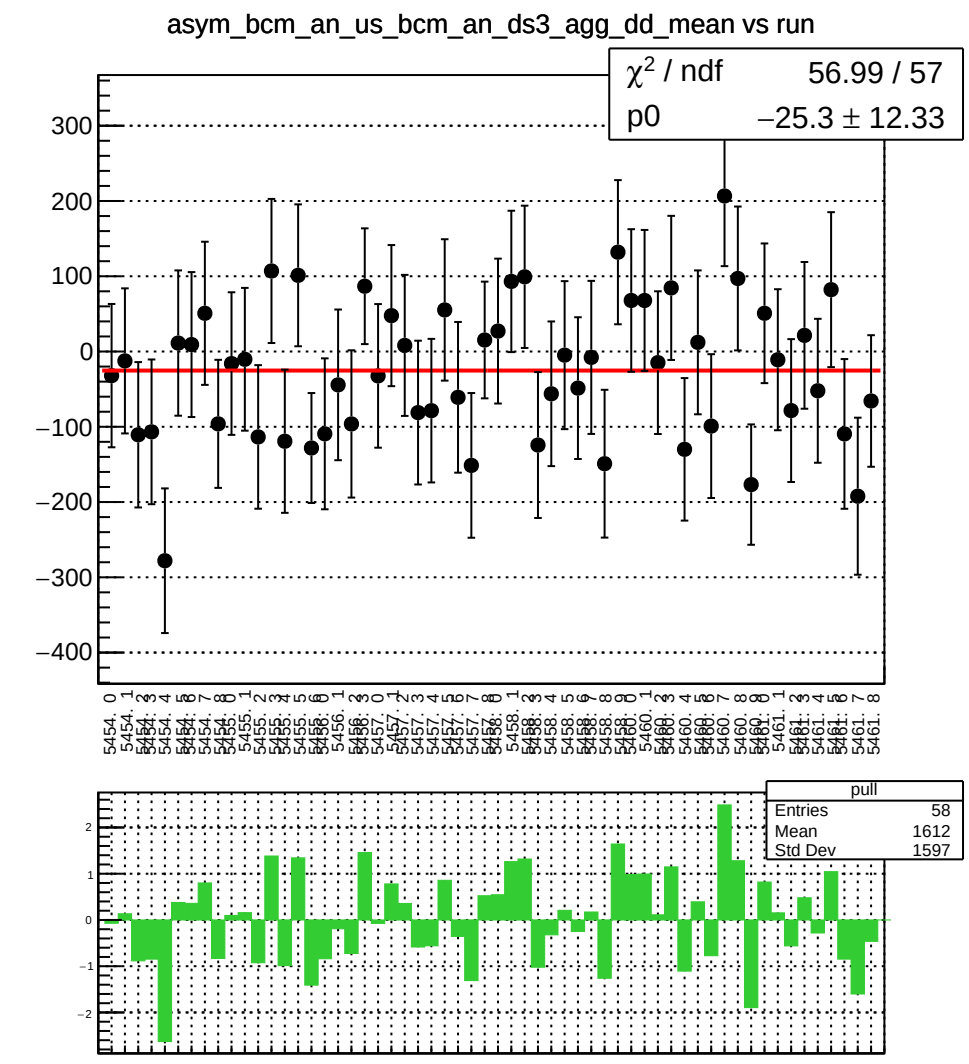

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.74 / 57
p0 −23.02 ± 13.18
pull
Entries 58
Mean 1434
Std Dev 1433
pull1D
Entries 58
Mean 0.0007001
Std Dev 0.9167

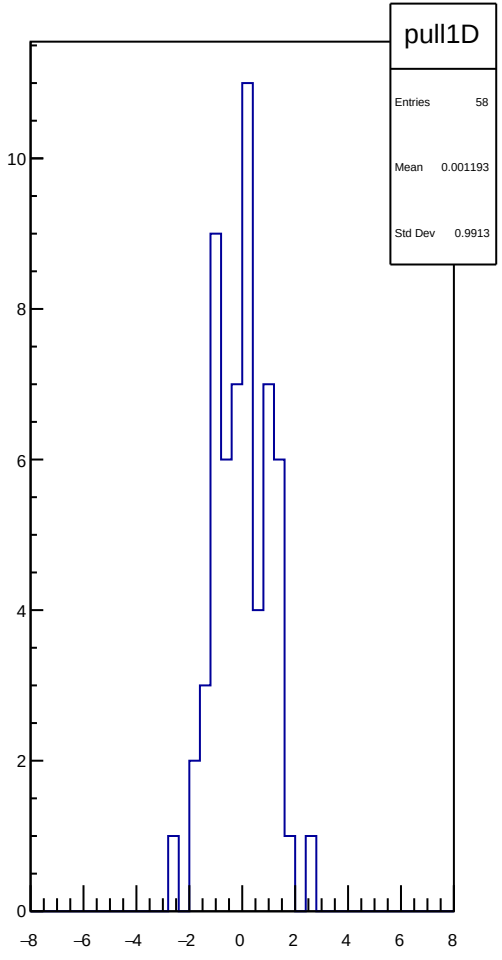

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 593.6 / 57
p0 9.746 ± 0.009317
10.6
10.4
10.2
10
9.8
9.6
9.4

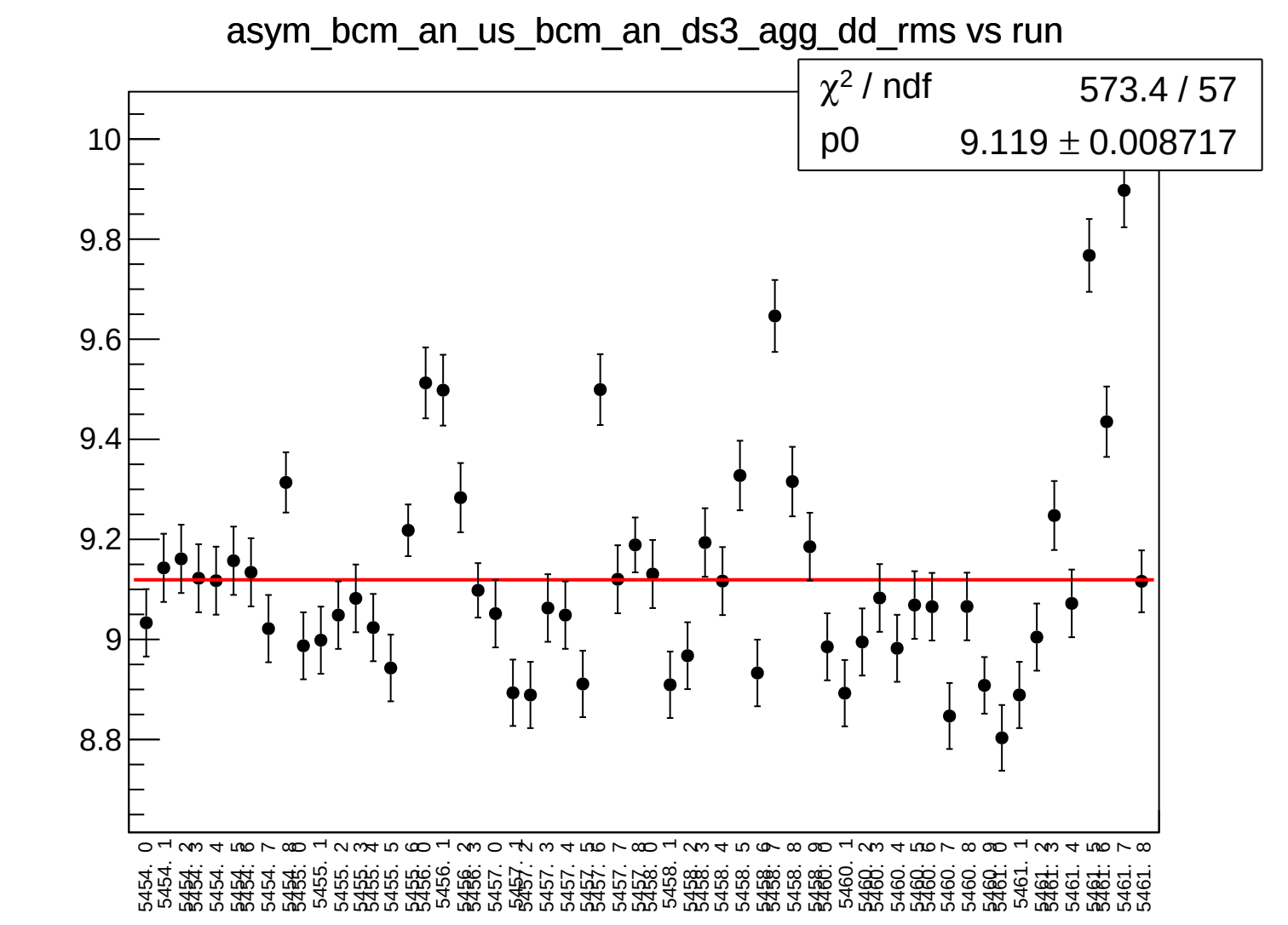

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 7.659 / 57
p0 −158.4 ± 386.8
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 164.8
Std Dev 137.6
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

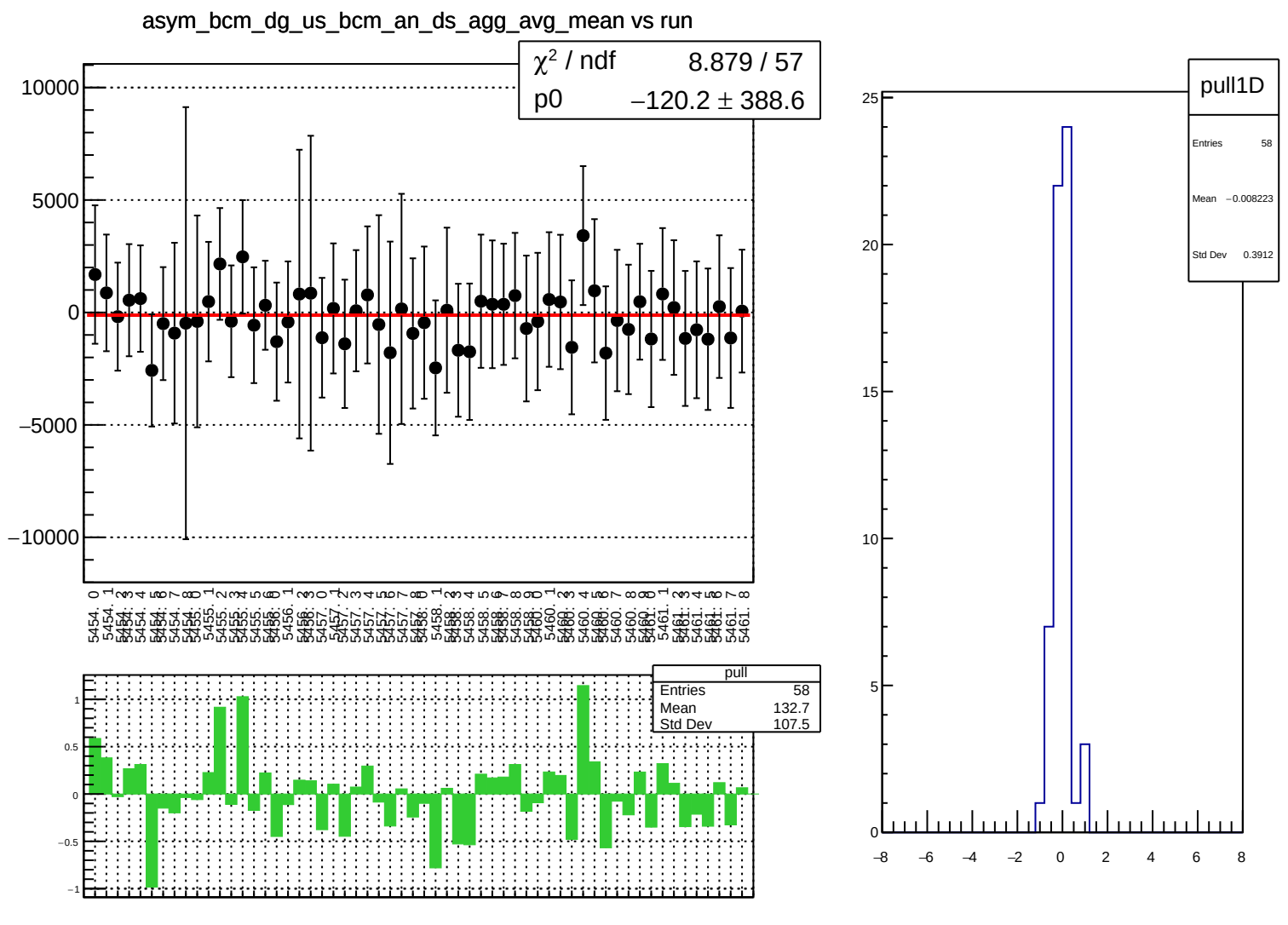

pull1D
Entries 58
Mean −0.005663
Std Dev 0.3634
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

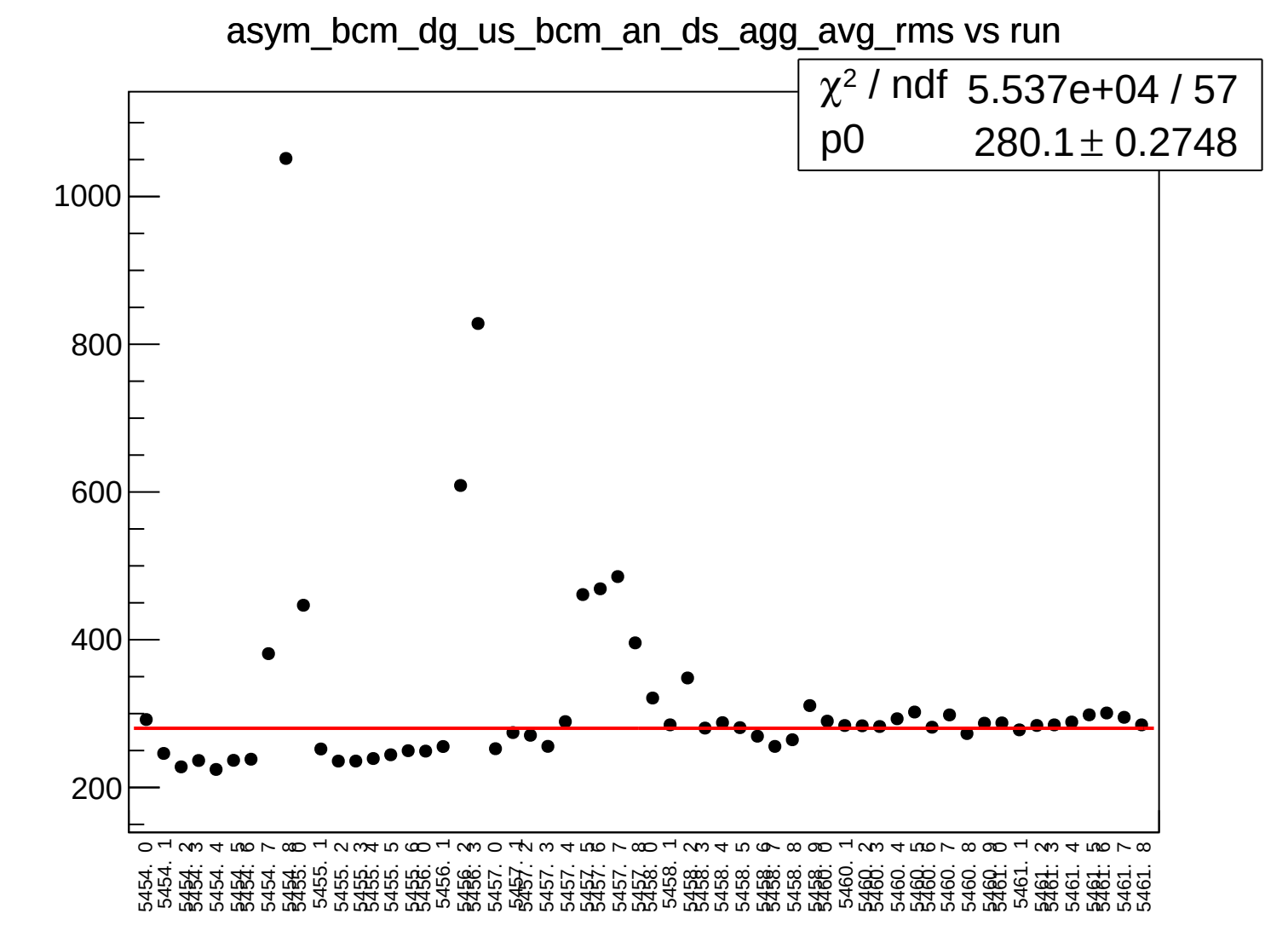

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5.585e+04 / 57
p0 278.8 ± 0.2735
1000
800
600
400
200

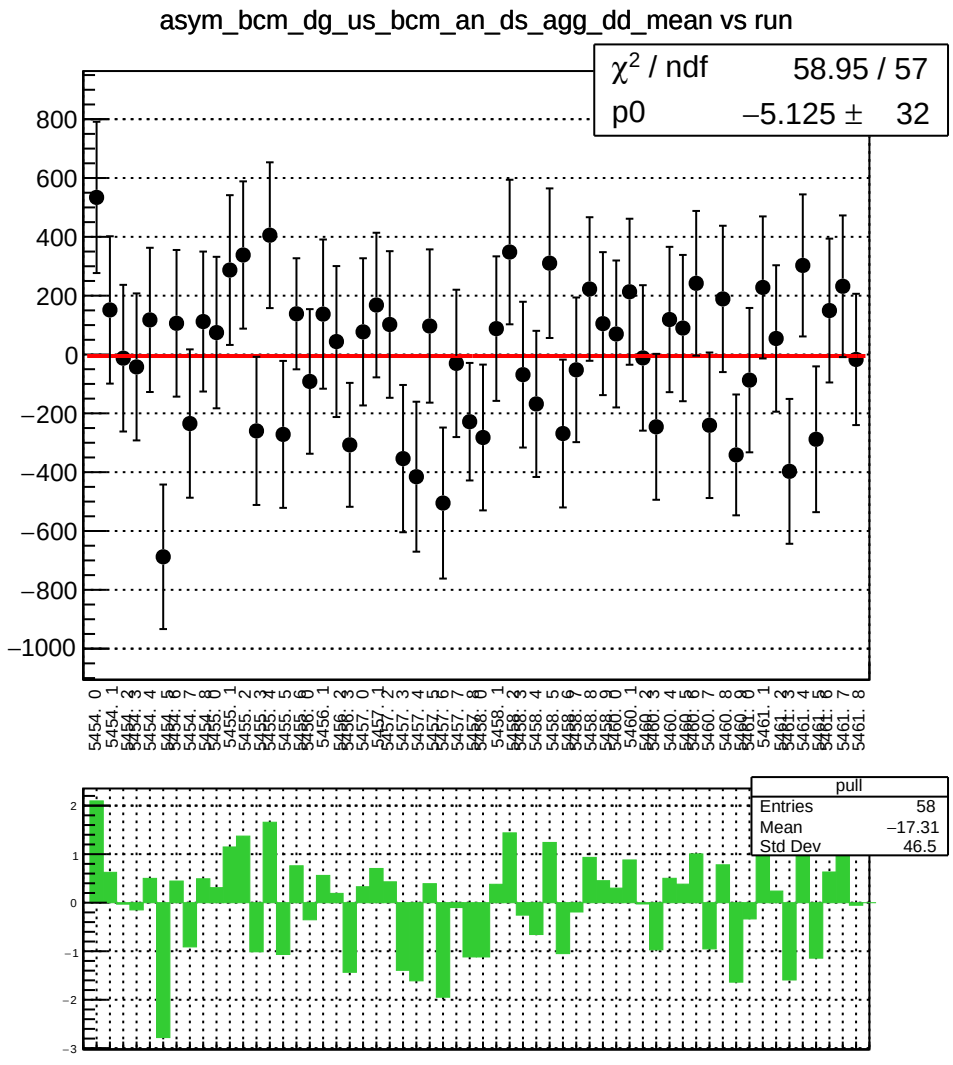

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 56.99 / 57
p0 −25.3 ± 12.33
pull
Entries 58
Mean 1612
Std Dev 1597

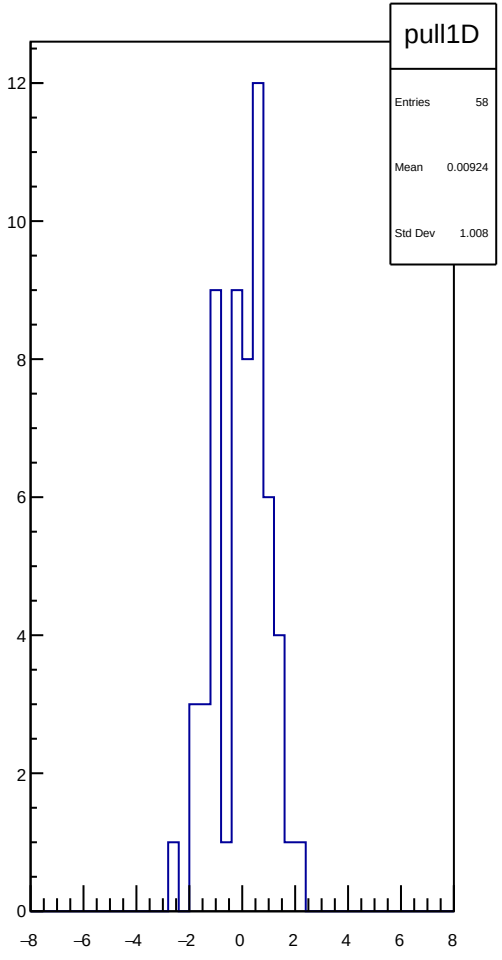

pull1D
Entries 58
Mean 0.001193
Std Dev 0.9913

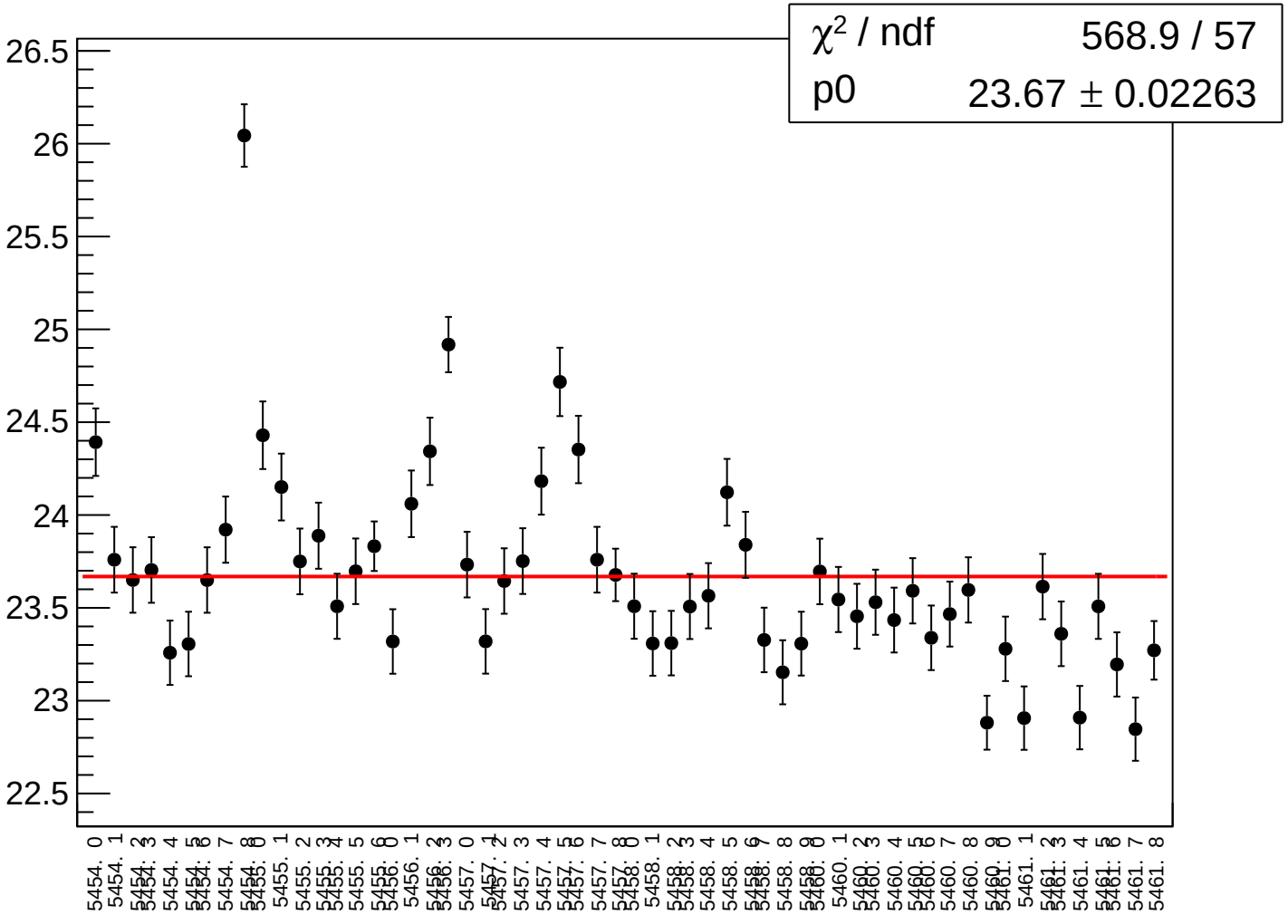

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 573.4 / 57
p0 9.119 ± 0.008717
10
9.8
9.6
9.4
9.2
9
8.8

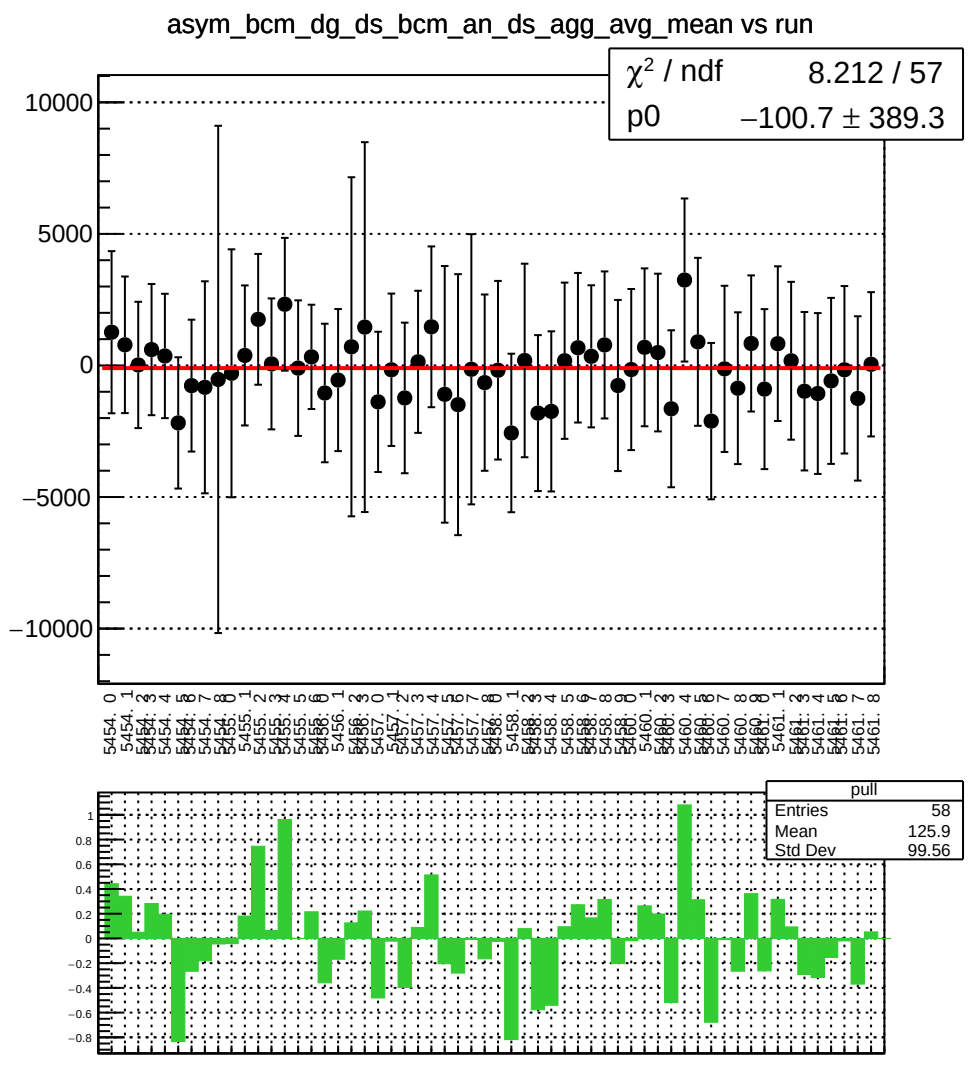

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.879 / 57
p0 −120.2 ± 388.6
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 132.7
Std Dev 107.5
1
0.5
0
−0.5
−1
pull1D
Entries 58
Mean −0.008223
Std Dev 0.3912
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

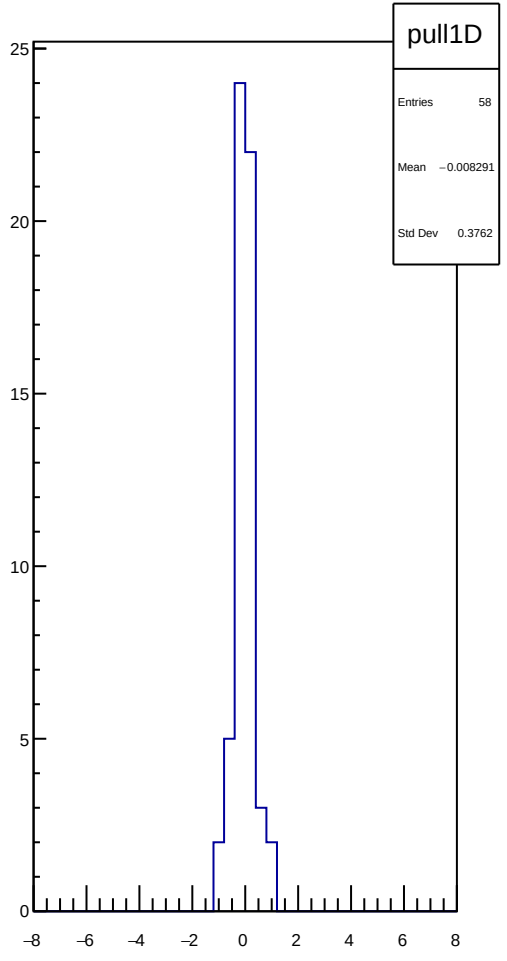

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.537e+04 / 57
p0 280.1 ± 0.2748
1000
800
600
400
200

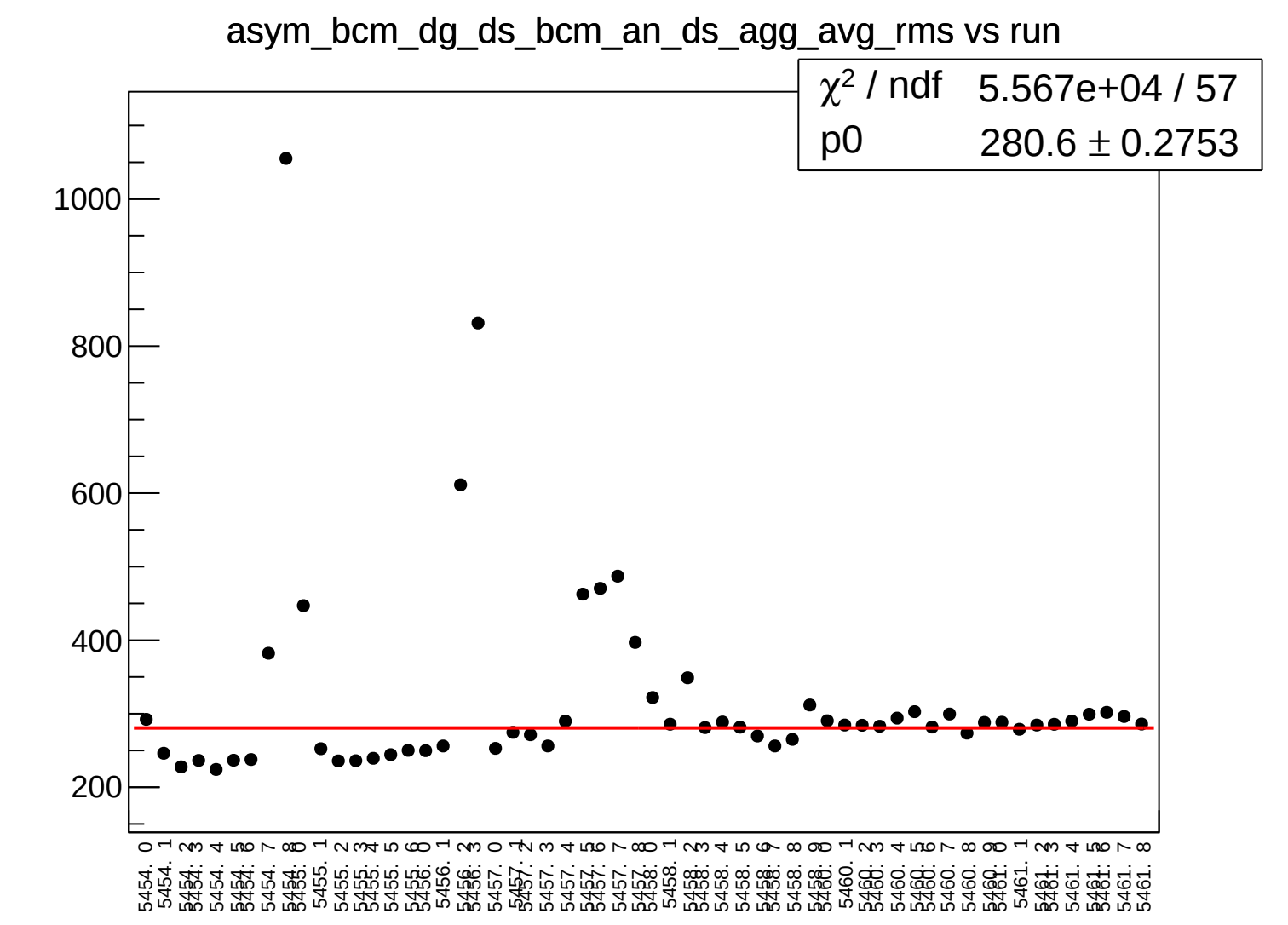

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 58.95 / 57
p0 −5.125 ± 32
pull
Entries 58
Mean −17.31
Std Dev 46.5

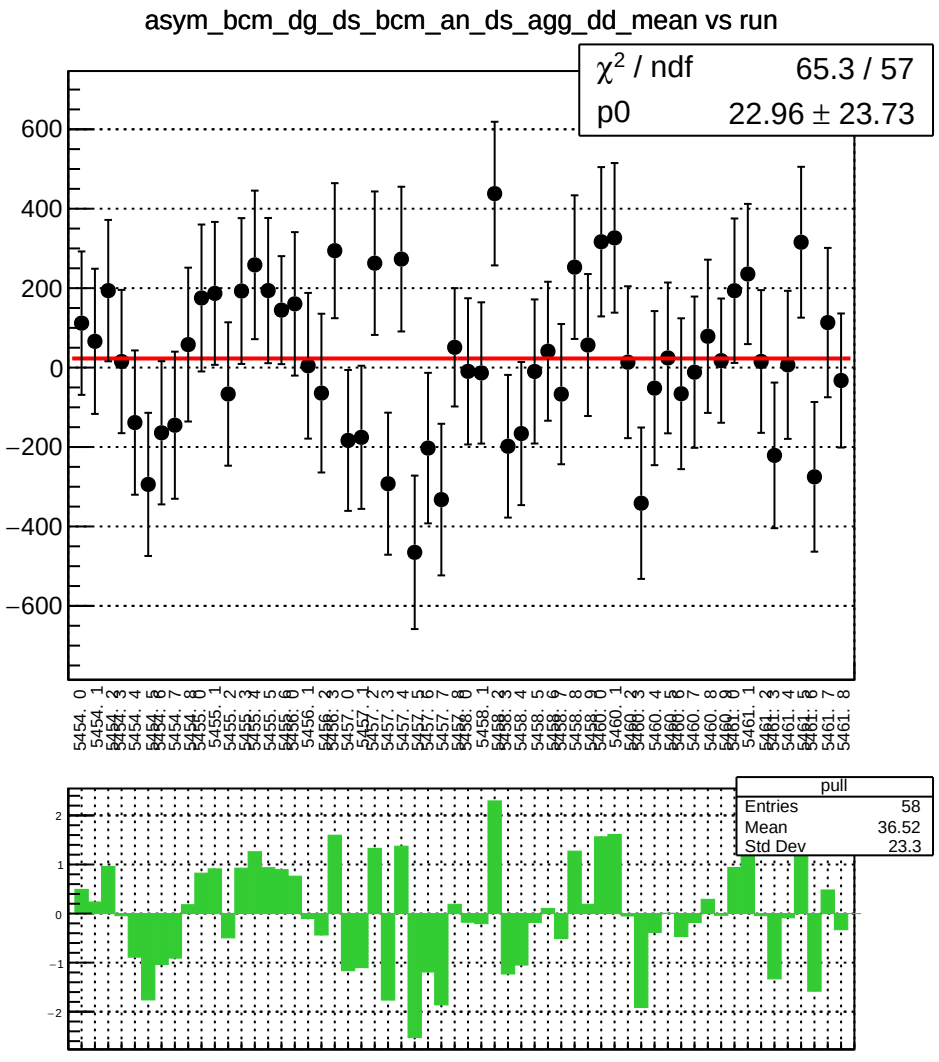

pull1D
Entries 58
Mean 0.00924
Std Dev 1.008

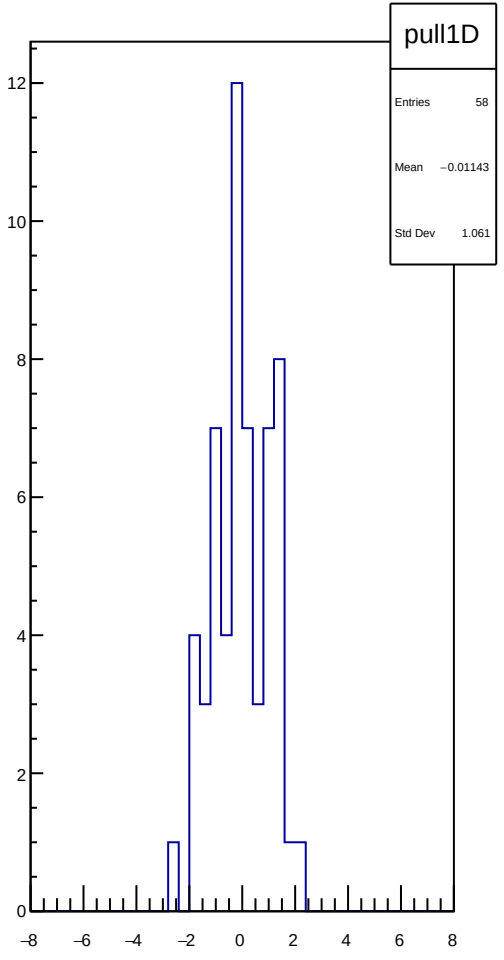

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 568.9 / 57
p0 23.67 ± 0.02263
26.5
26
25.5
25
24.5
24
23.5
23
22.5

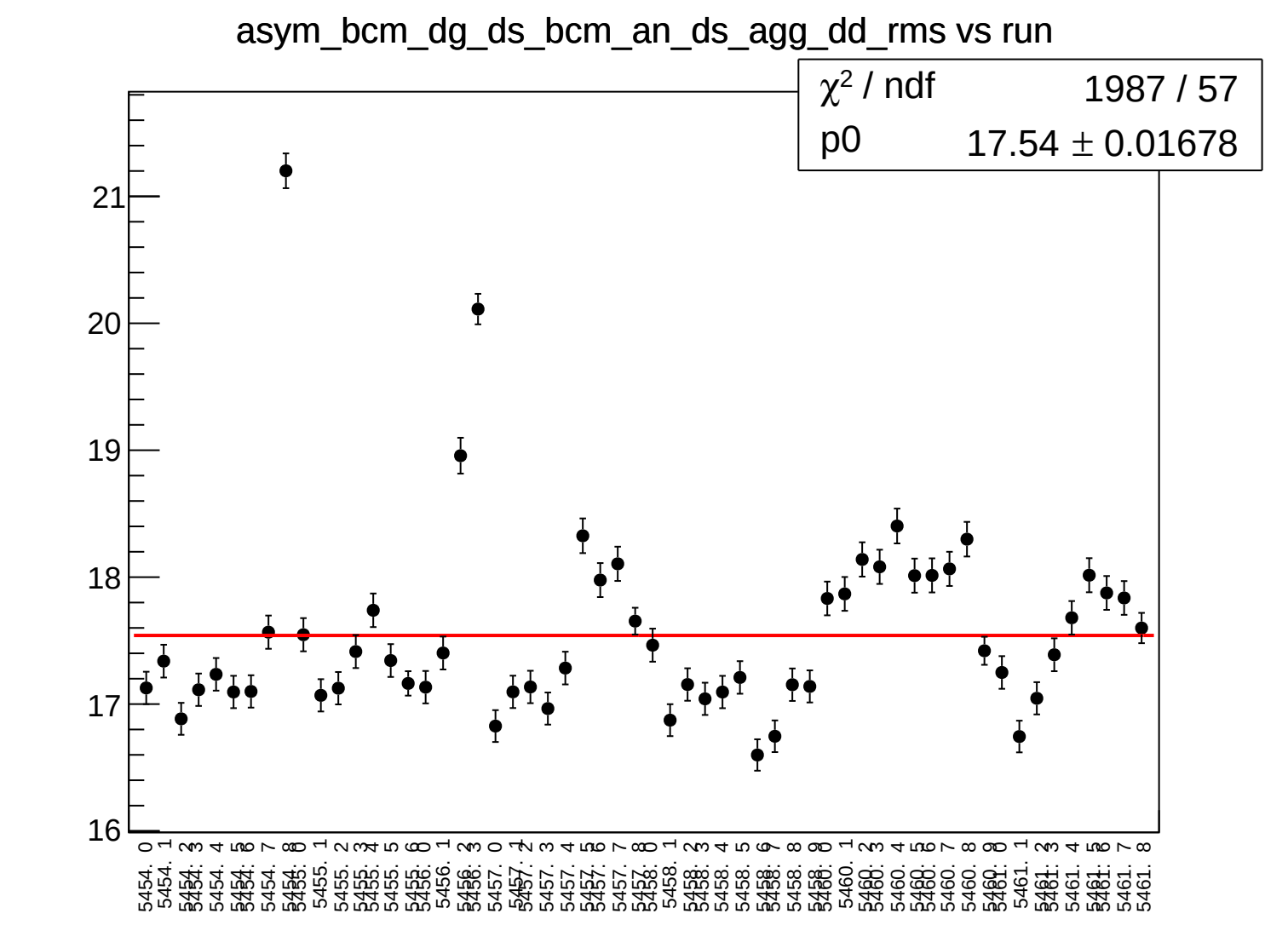

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 8.212 / 57
p0 −100.7 ± 389.3
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 125.9
Std Dev 99.56
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

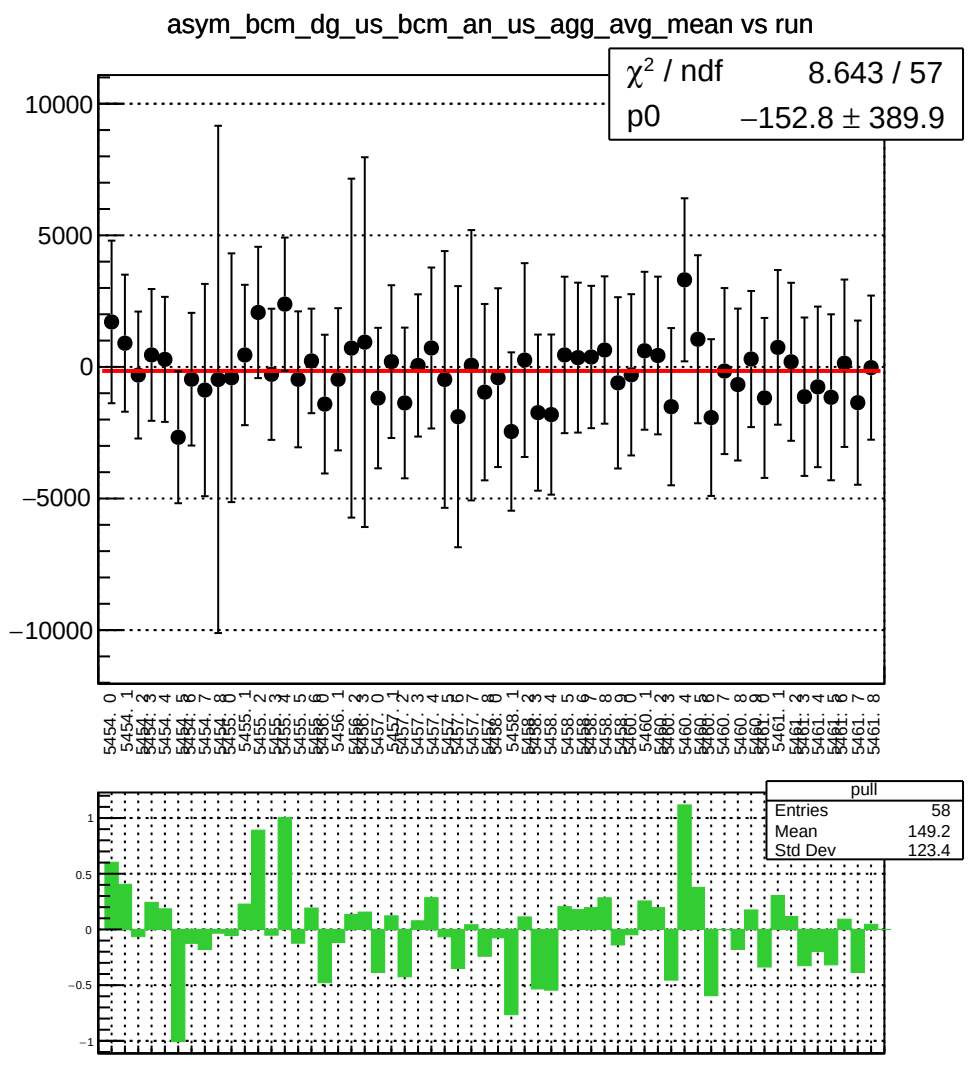

pull1D
Entries 58
Mean −0.008291
Std Dev 0.3762
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

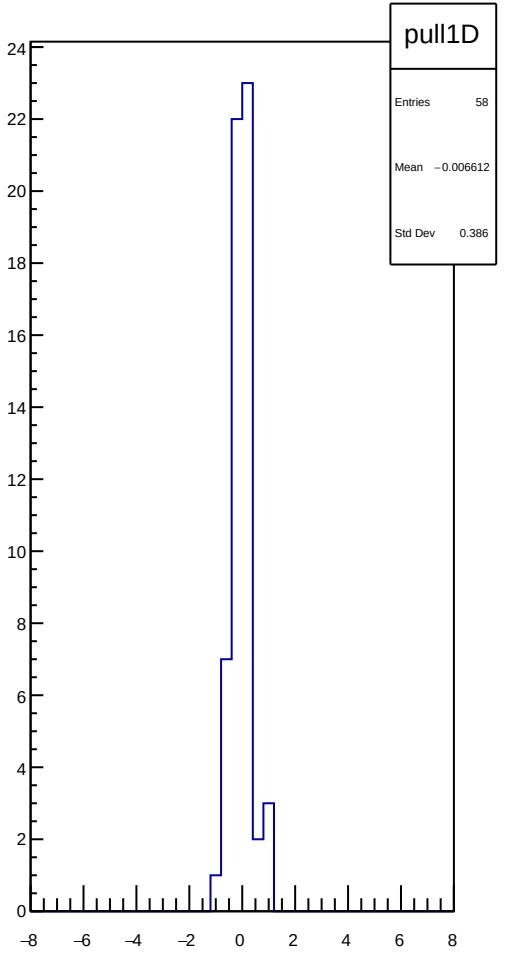

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5.567e+04 / 57
p0 280.6 ± 0.2753
1000
800
600
400
200

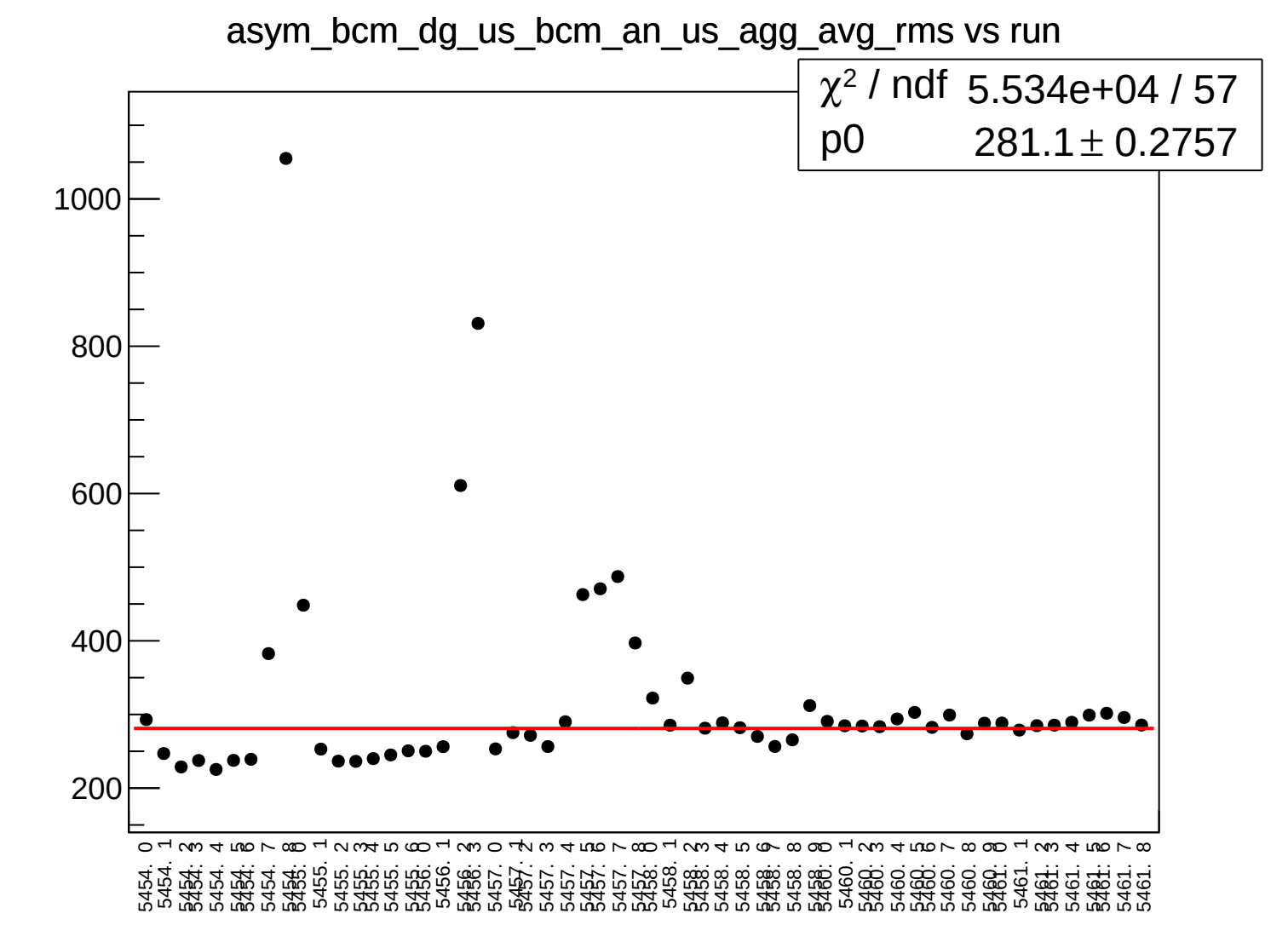

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 65.3 / 57
p0 22.96 ± 23.73
pull
Entries 58
Mean 36.52
Std Dev 23.3

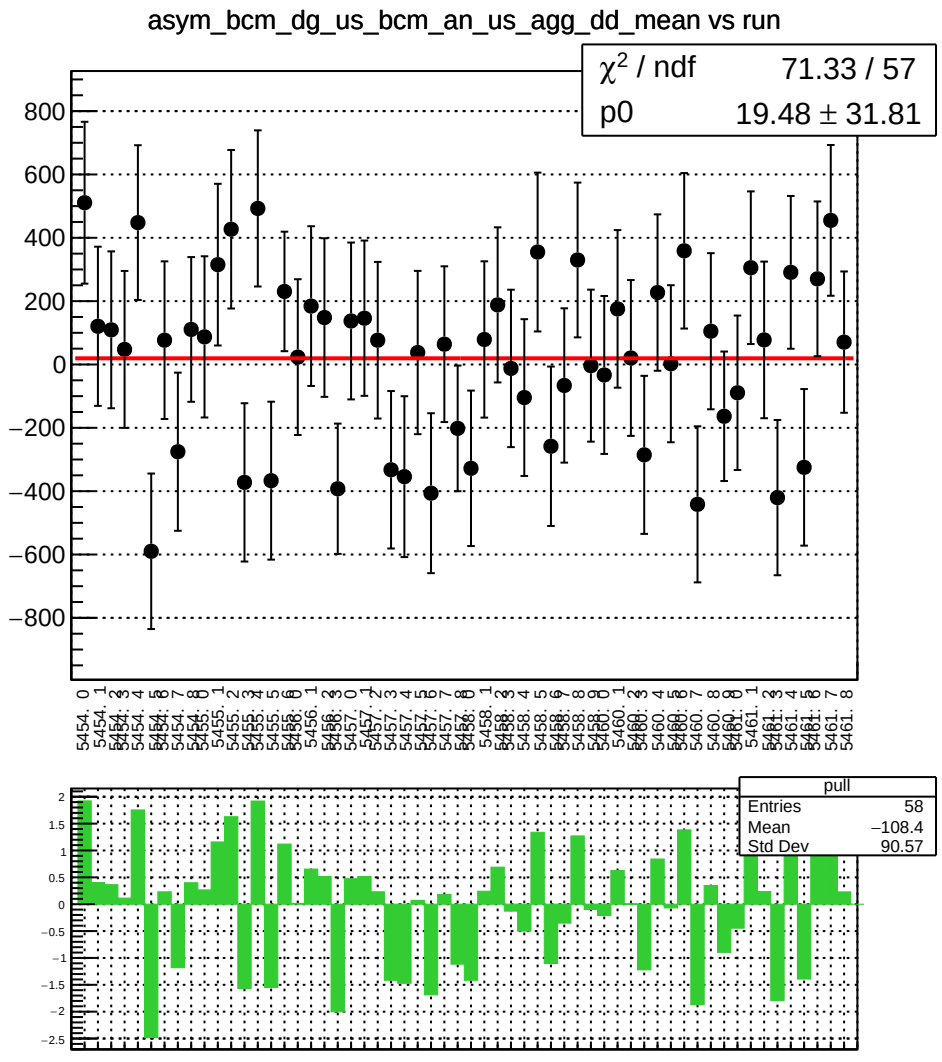

pull1D
Entries 58
Mean −0.01143
Std Dev 1.061

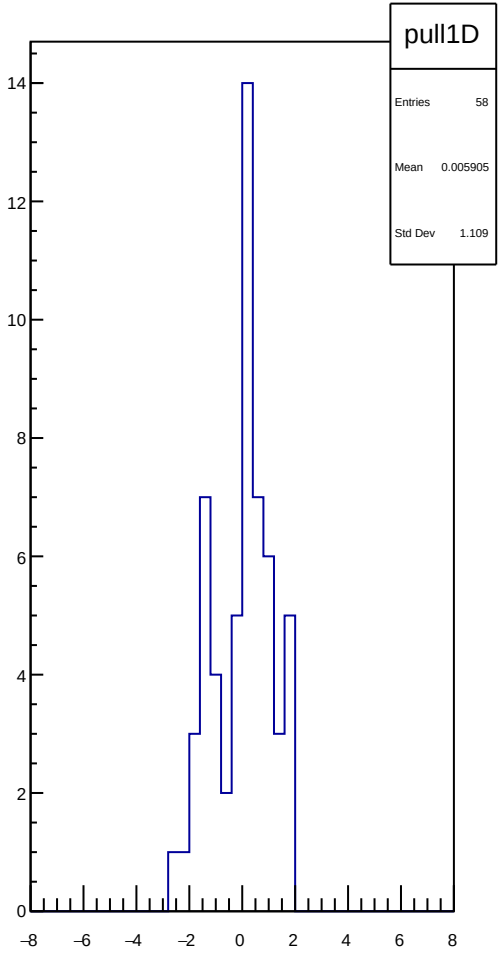

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1987 / 57
p0 17.54 ± 0.01678
21
20
19
18
17
16

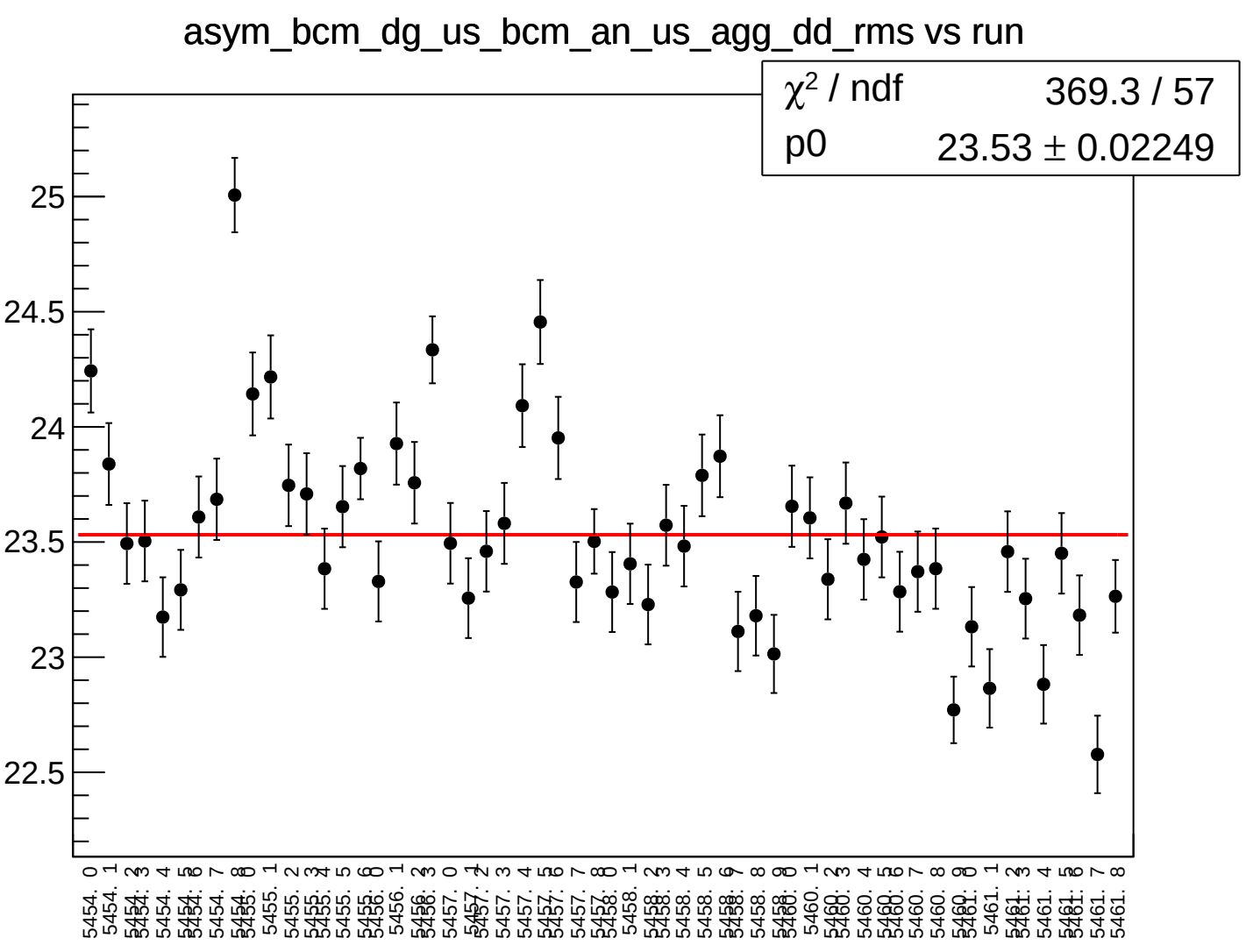

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.643 / 57
p0 −152.8 ± 389.9
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 149.2
Std Dev 123.4
1
0.5
0
−0.5
−1

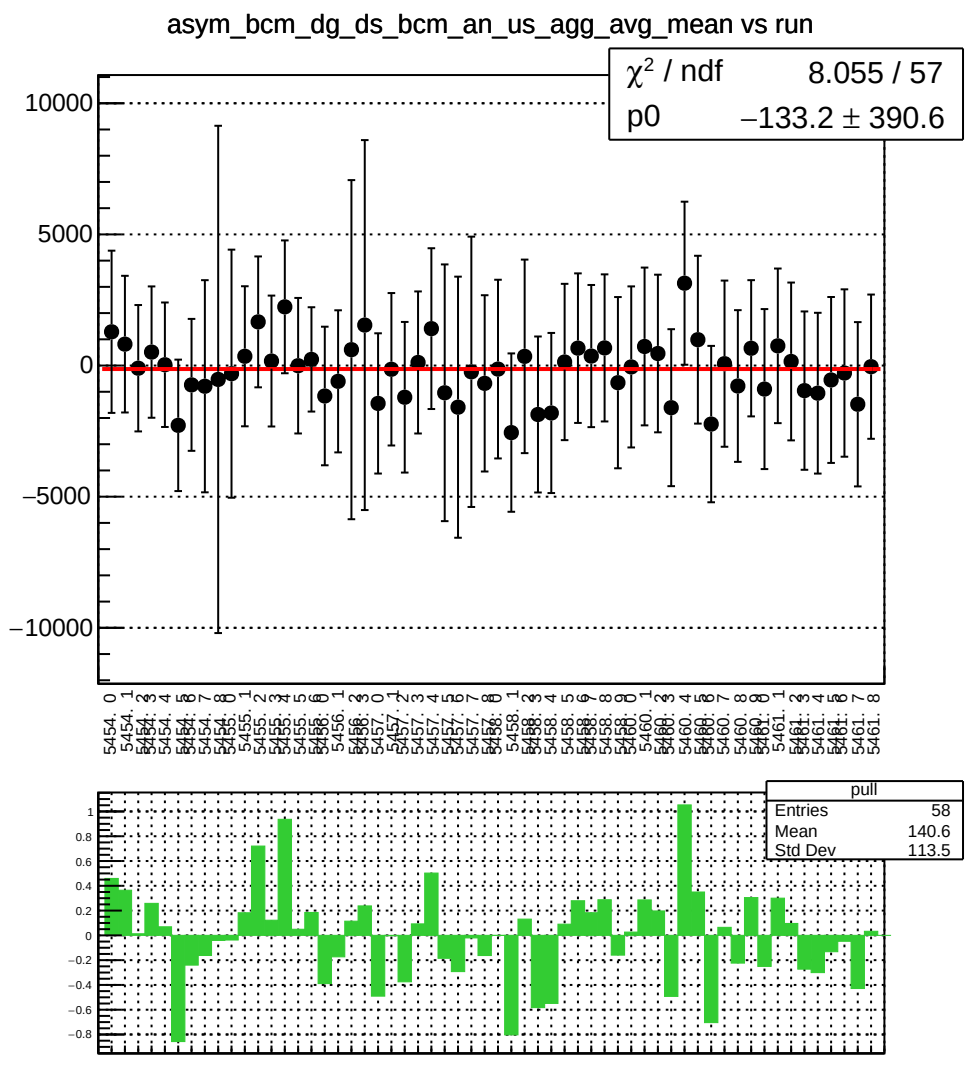

pull1D
Entries 58
Mean −0.006612
Std Dev 0.386
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

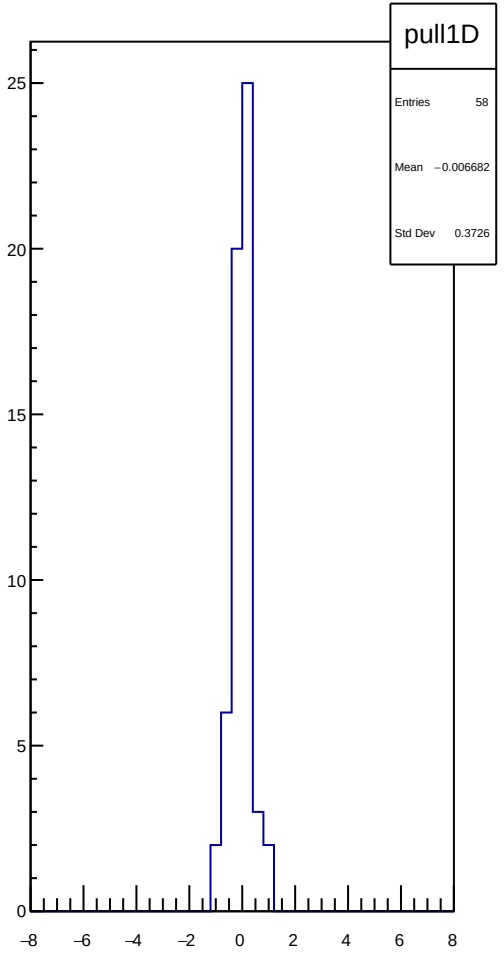

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5.534e+04 / 57
p0 281.1 ± 0.2757
1000
800
600
400
200

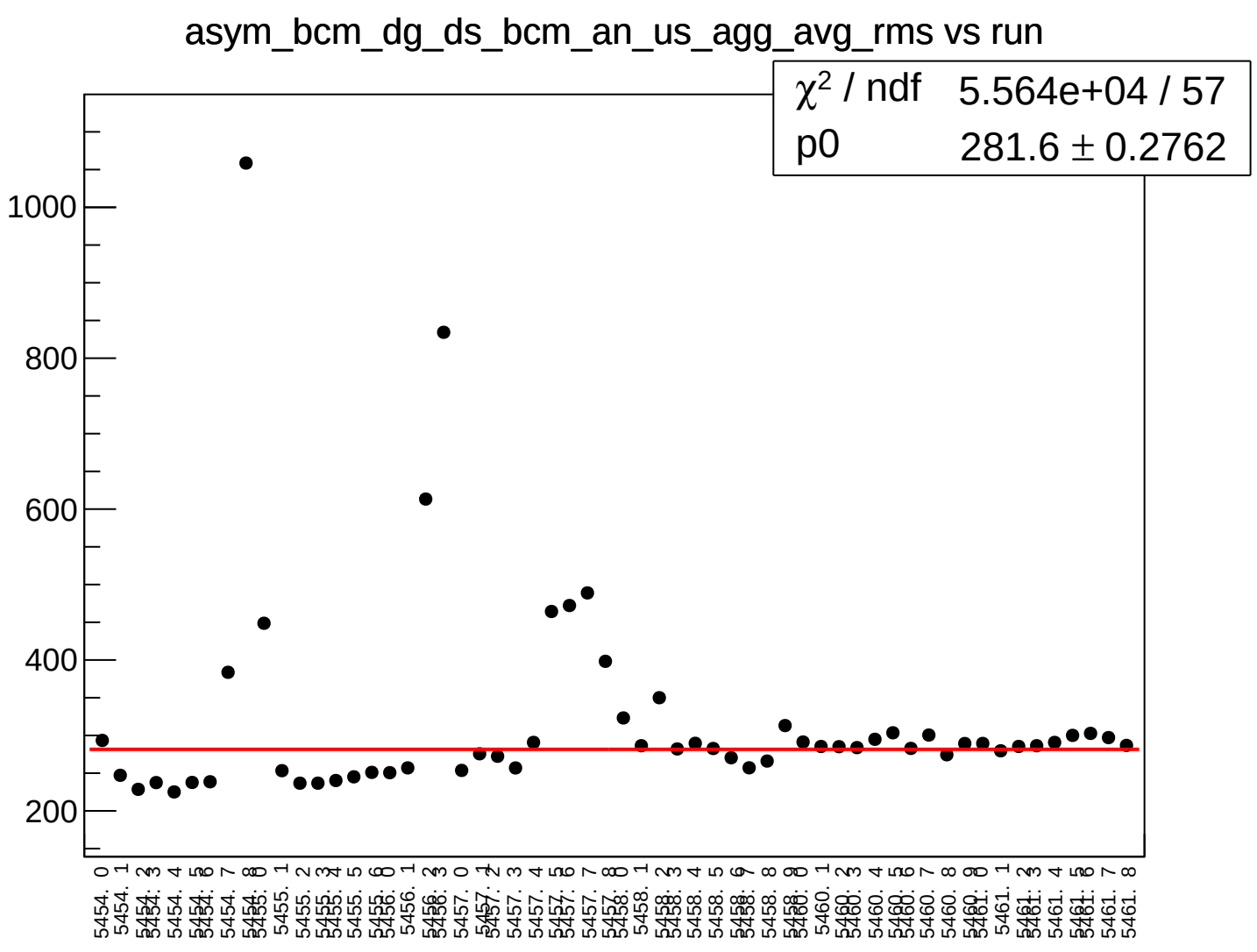

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 71.33 / 57
p0 19.48 ± 31.81
pull
Entries 58
Mean −108.4
Std Dev 90.57

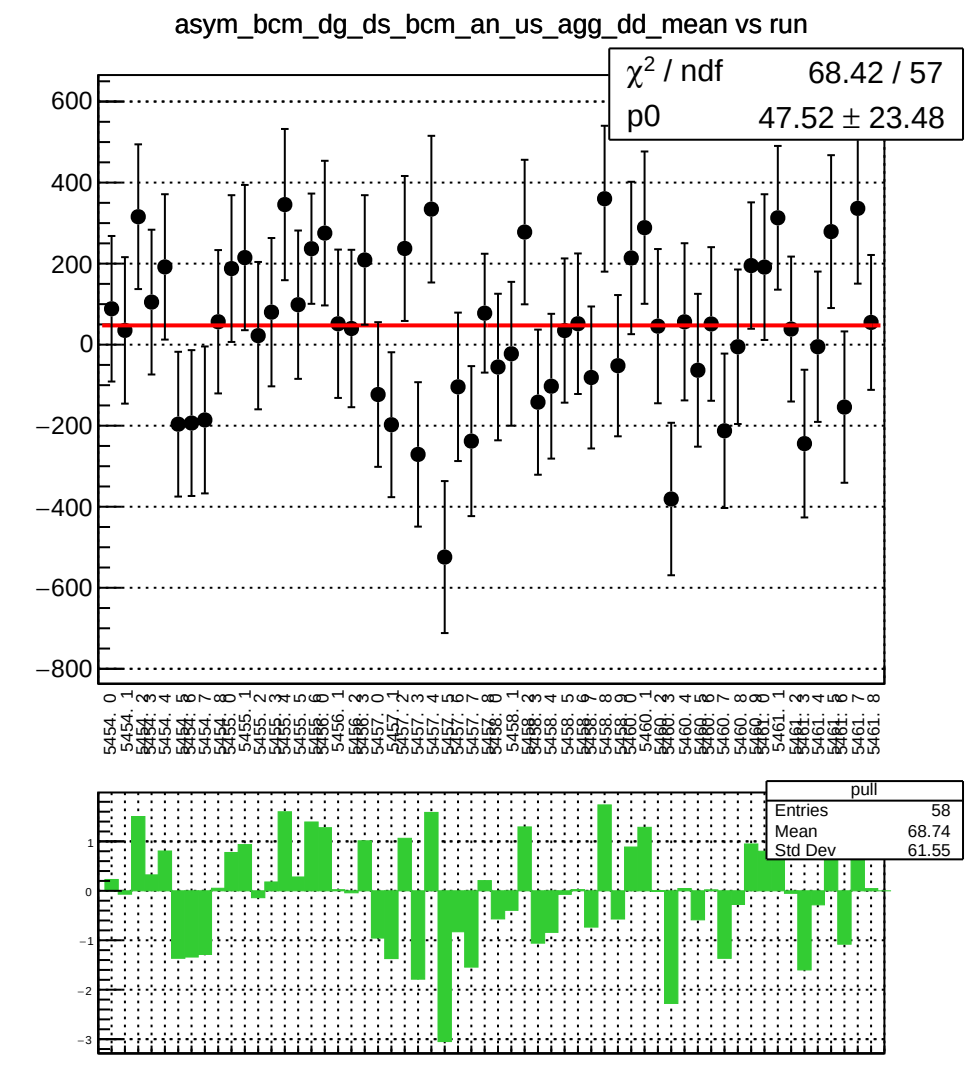

pull1D
Entries 58
Mean 0.005905
Std Dev 1.109

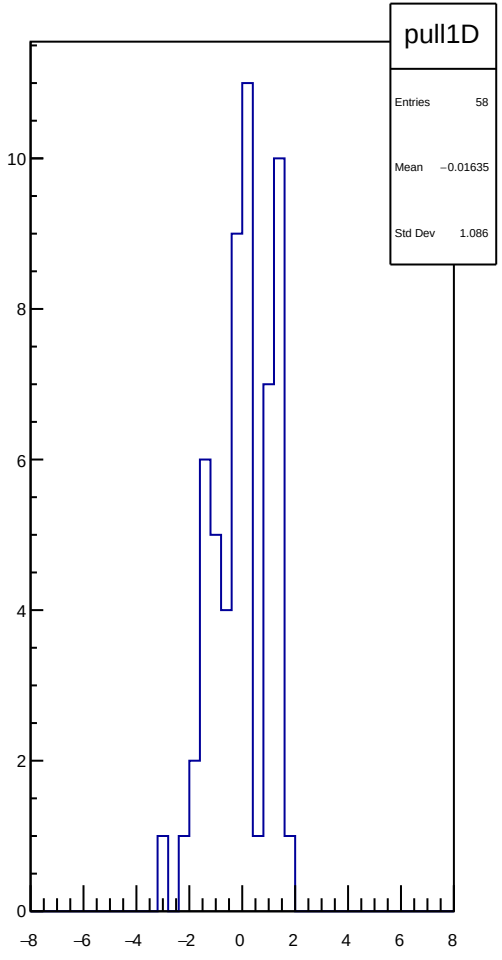

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 369.3 / 57
p0 23.53 ± 0.02249
25
24.5
24
23.5
23
22.5

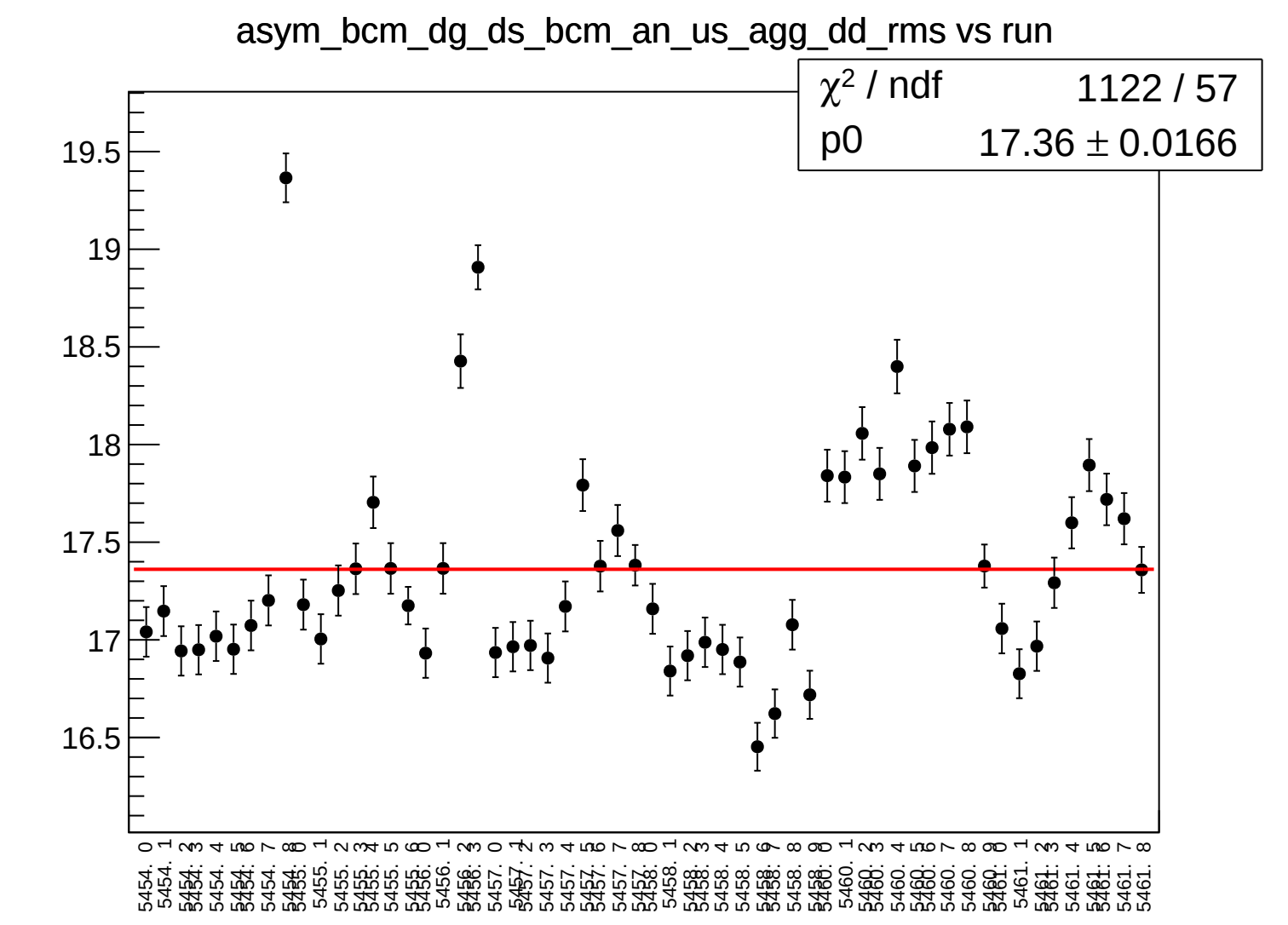

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 8.055 / 57
p0 −133.2 ± 390.6
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 140.6
Std Dev 113.5
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

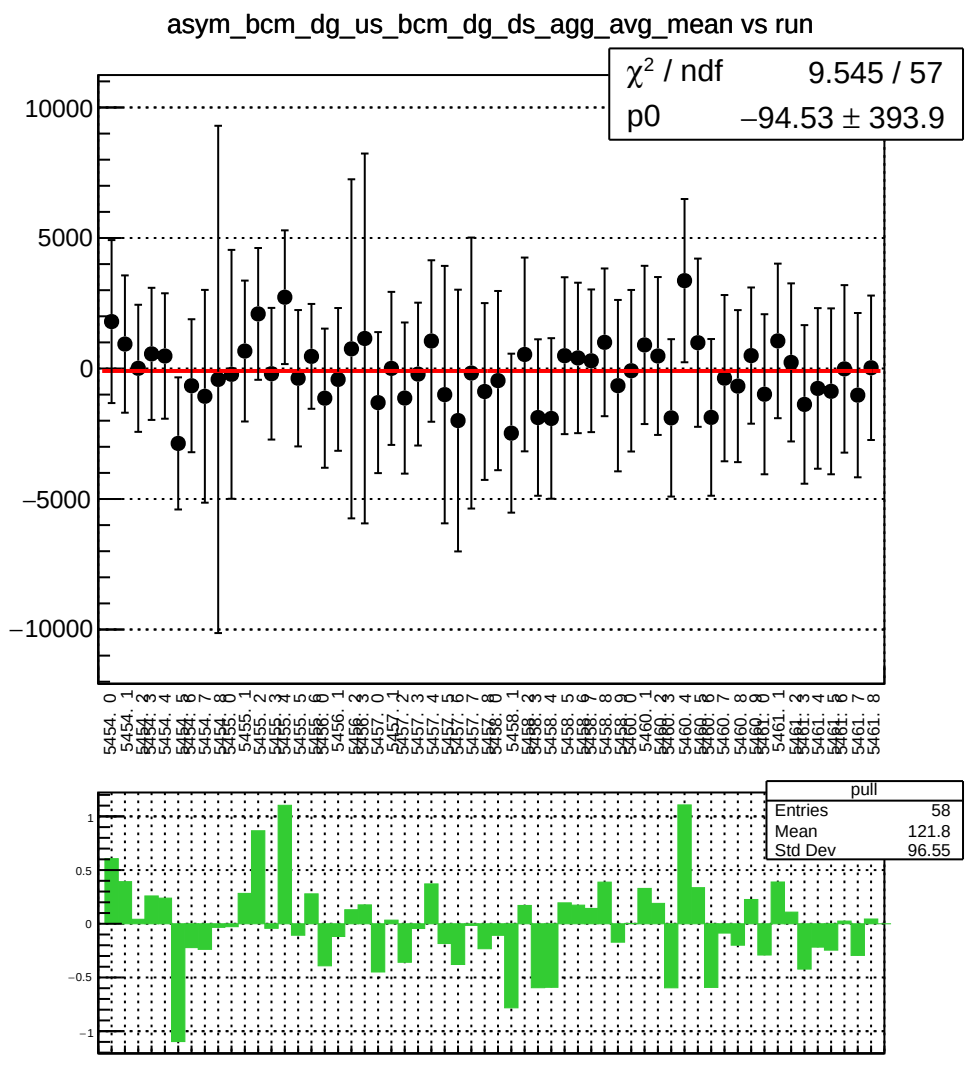

pull1D
Entries 58
Mean −0.006682
Std Dev 0.3726
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

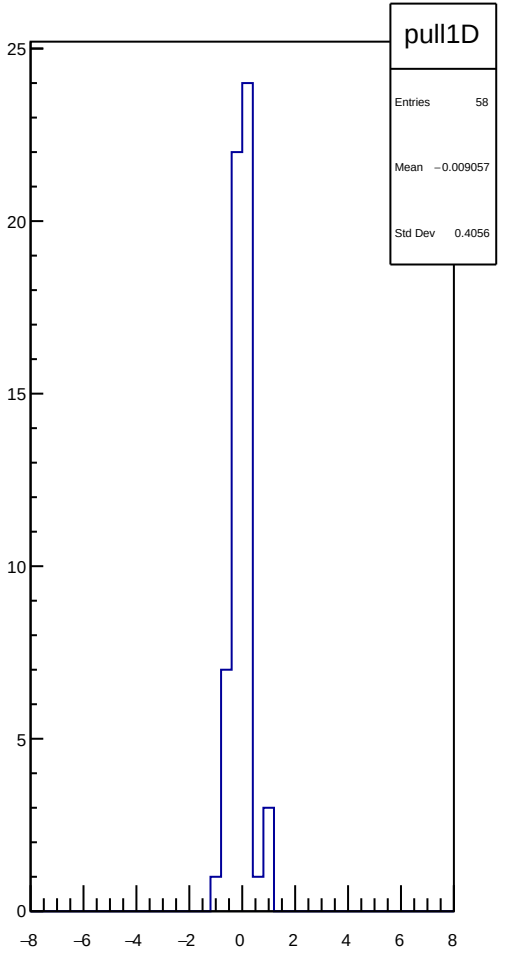

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5.564e+04 / 57
p0 281.6 ± 0.2762
1000
800
600
400
200

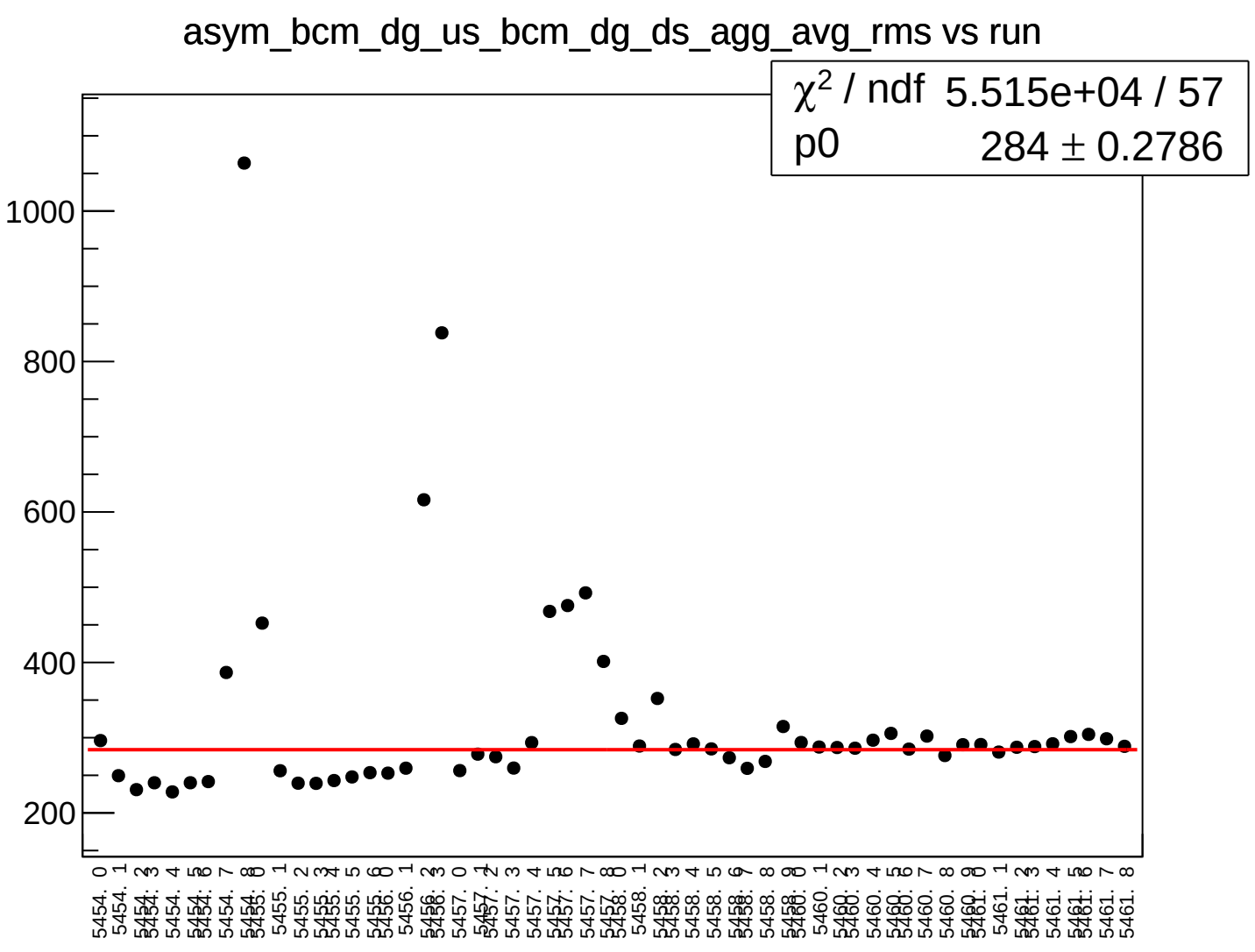

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 68.42 / 57
p0 47.52 ± 23.48
pull
Entries 58
Mean 68.74
Std Dev 61.55

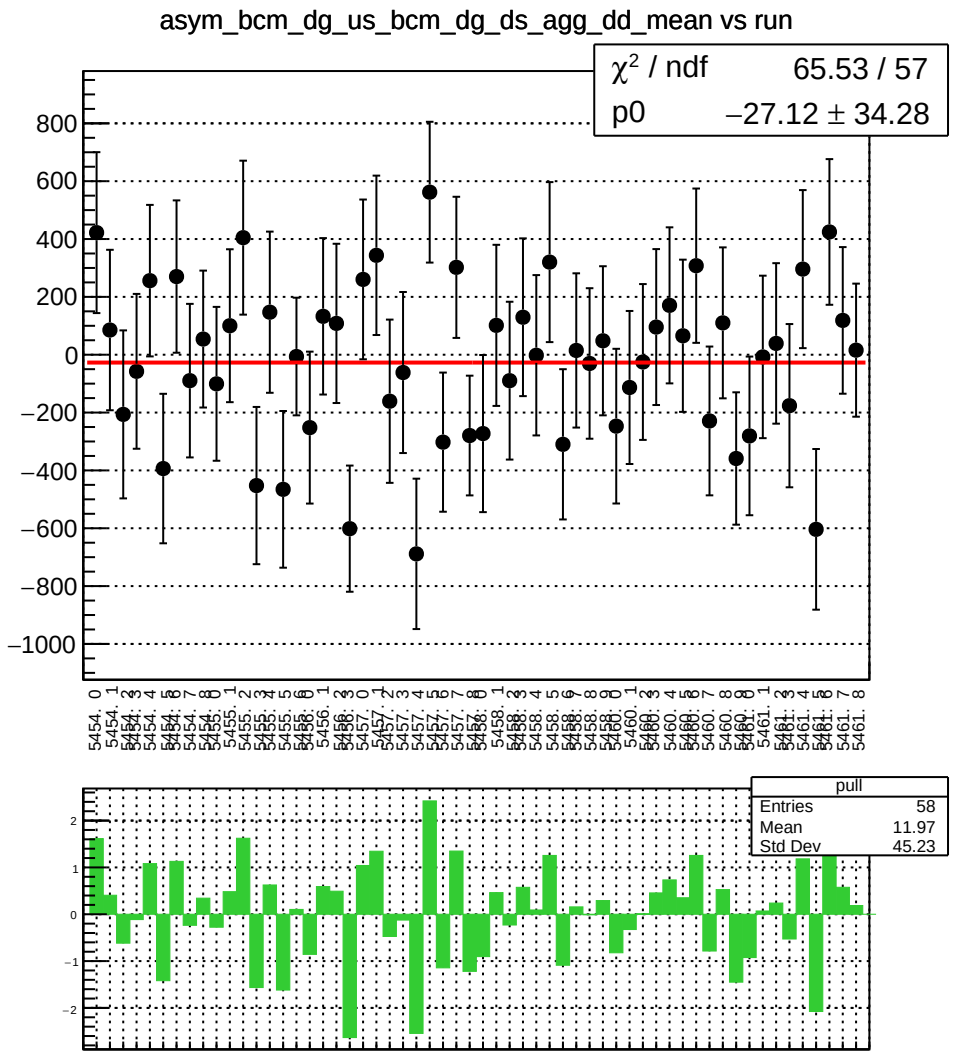

pull1D
Entries 58
Mean −0.01635
Std Dev 1.086

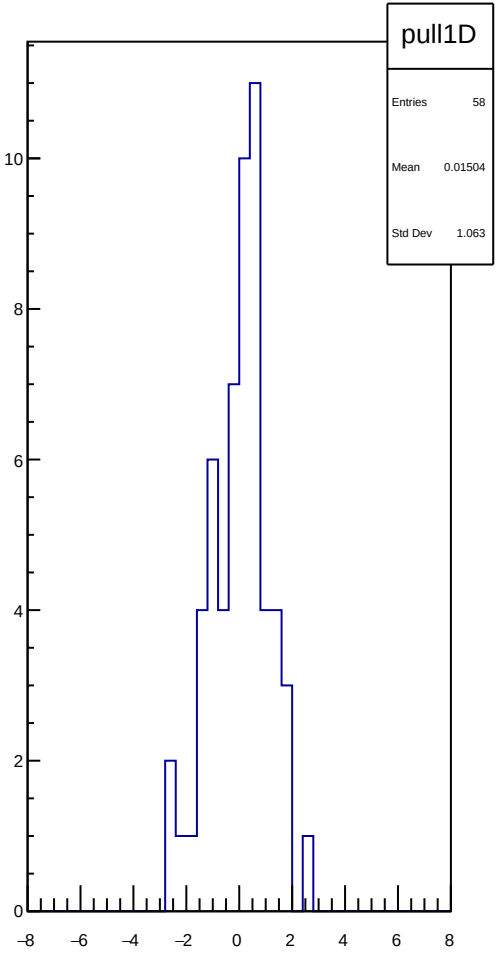

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1122 / 57
p0 17.36 ± 0.0166
19.5
19
18.5
18
17.5
17
16.5

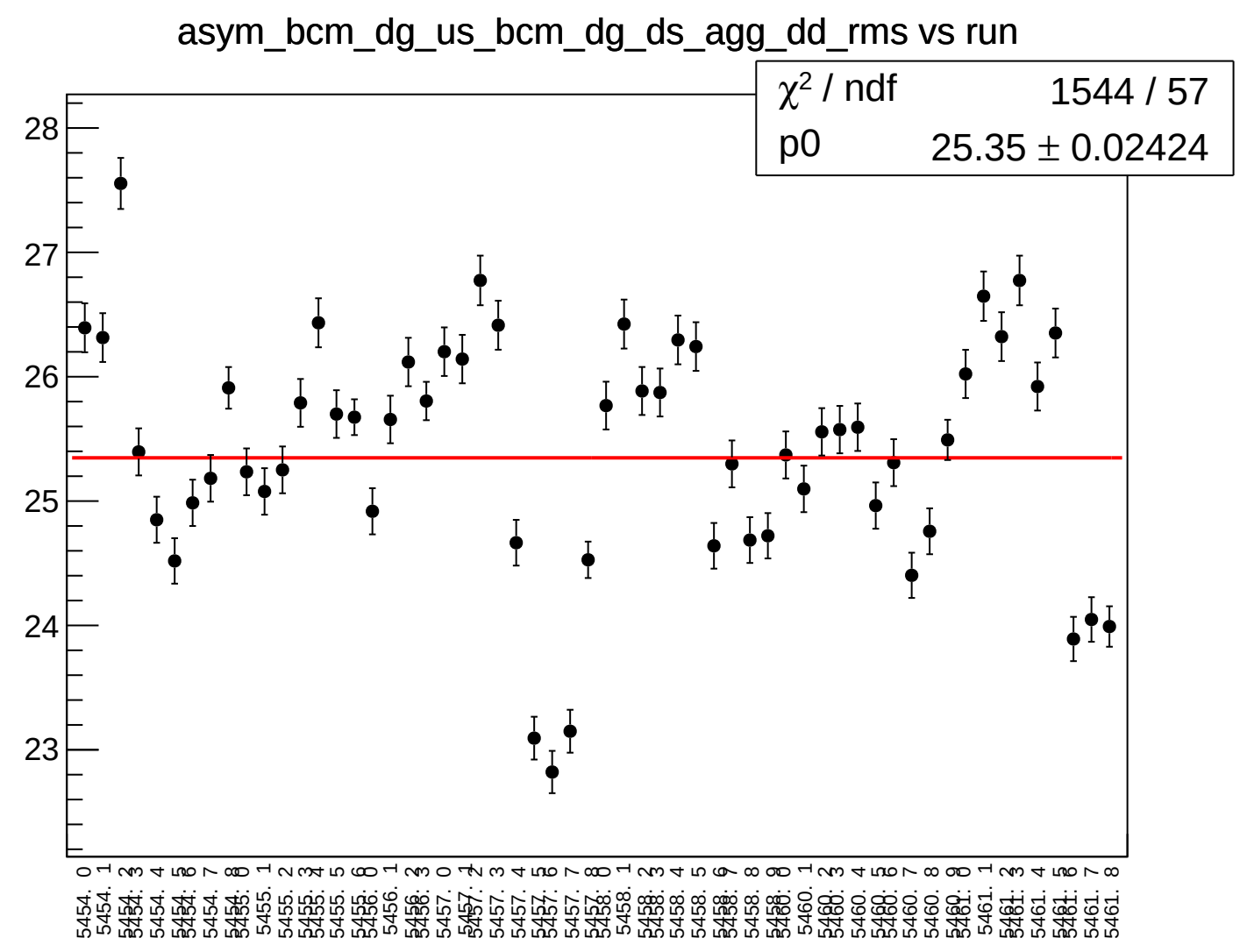

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 9.545 / 57
p0 −94.53 ± 393.9
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 121.8
Std Dev 96.55
1
0.5
0
−0.5
−1

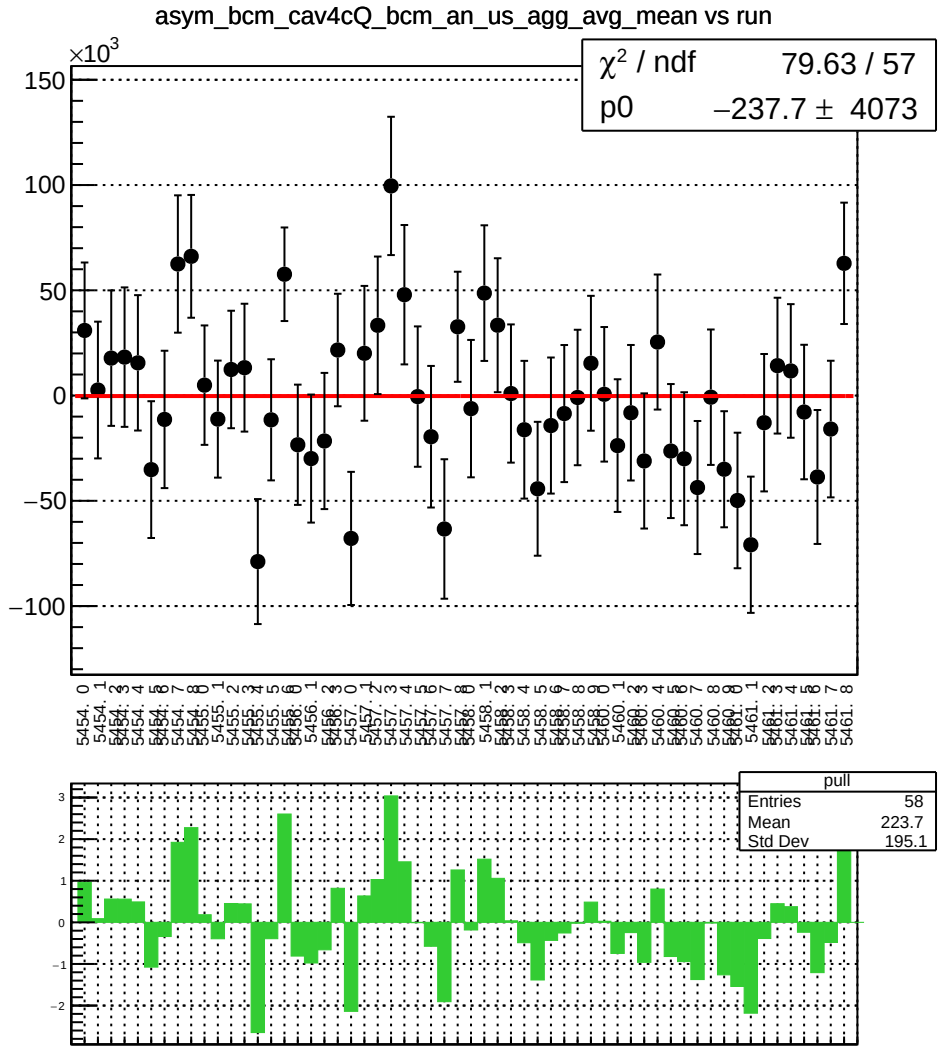

pull1D
Entries 58
Mean −0.009057
Std Dev 0.4056
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

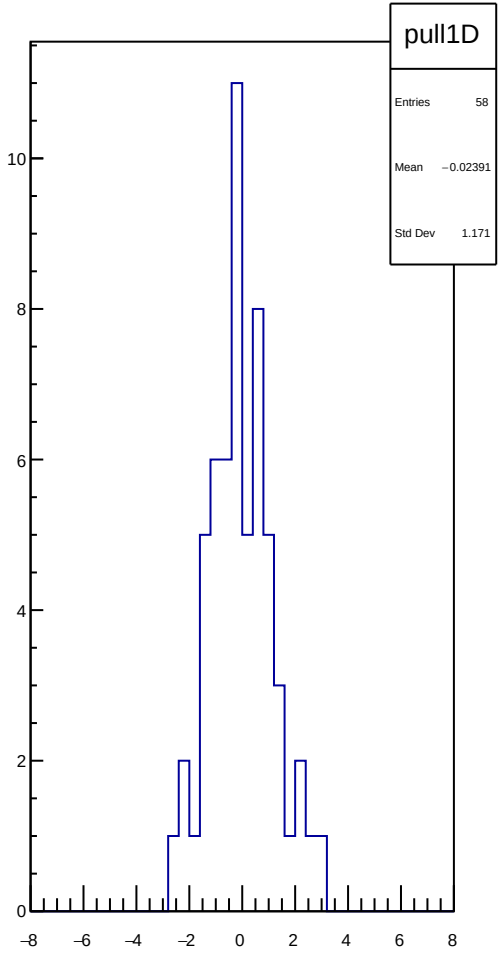

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5.515e+04 / 57
p0 284 ± 0.2786
1000
800
600
400
200

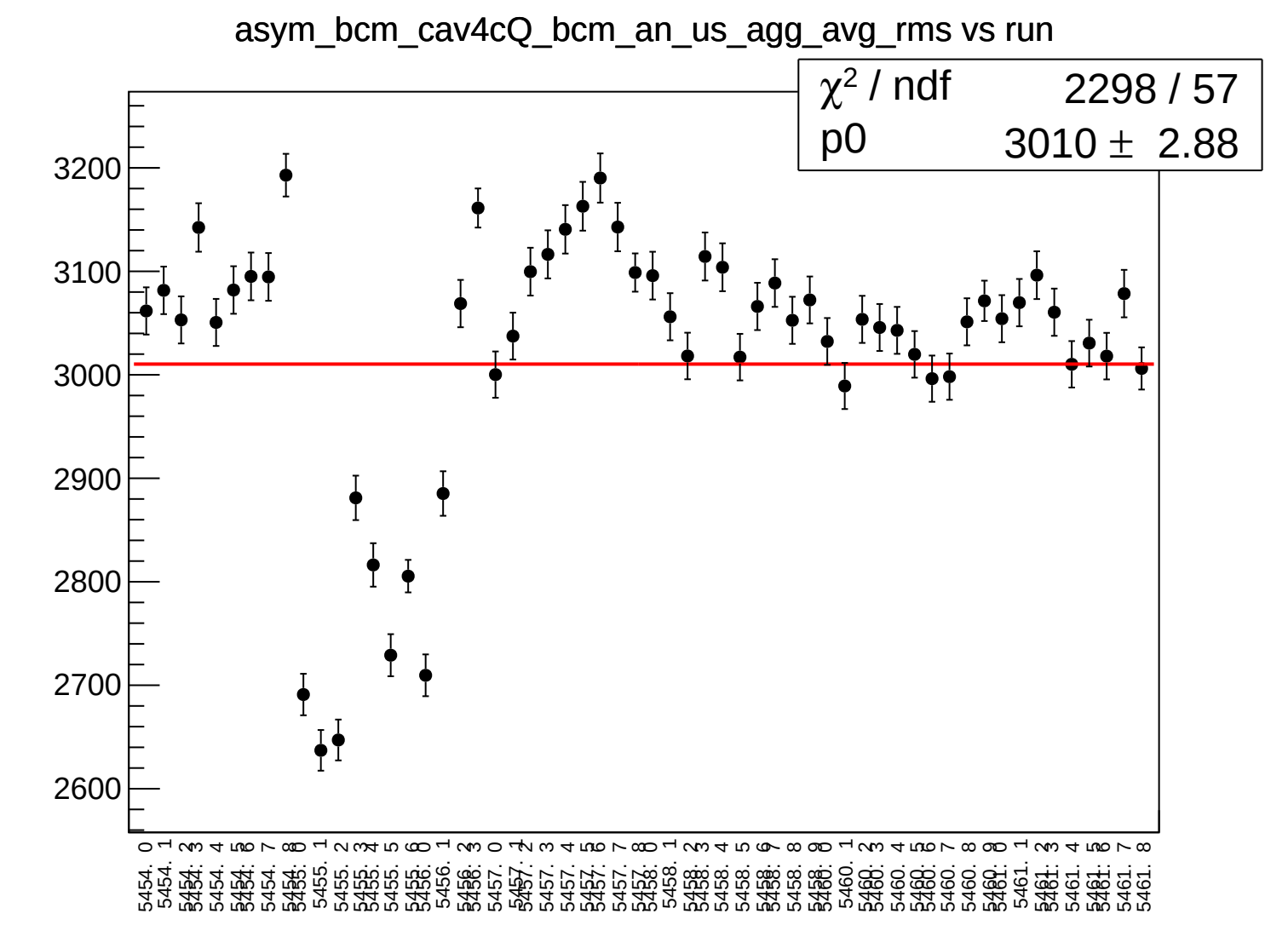

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.53 / 57
p0 −27.12 ± 34.28
pull
Entries 58
Mean 11.97
Std Dev 45.23

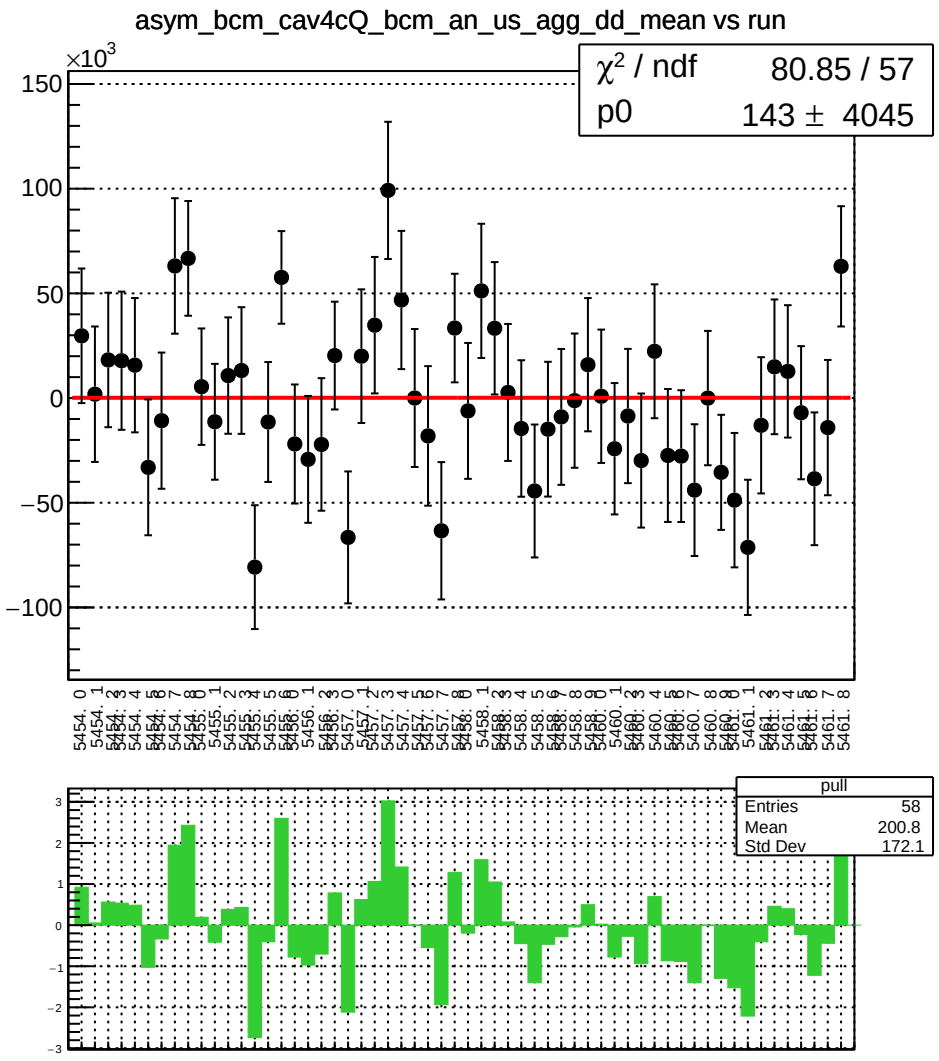

pull1D
Entries 58
Mean 0.01504
Std Dev 1.063

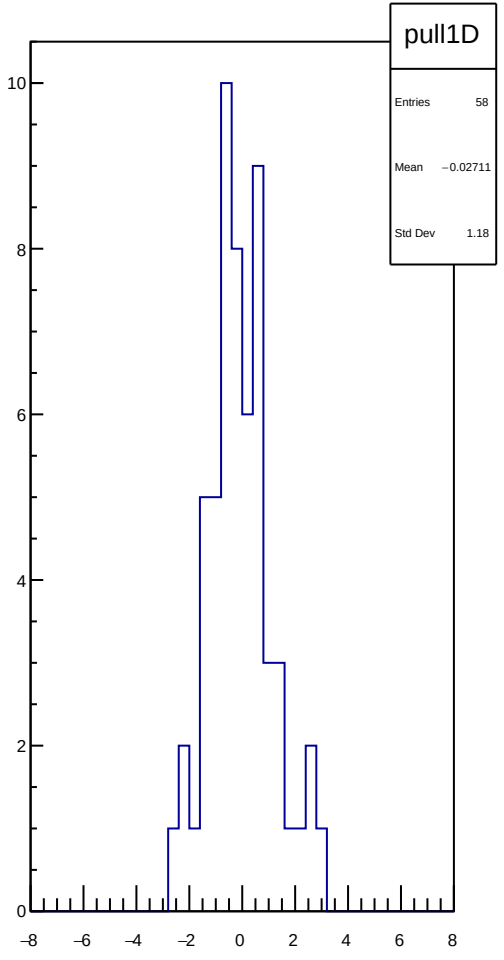

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1544 / 57
p0 25.35 ± 0.02424
28
27
26
25
24
23

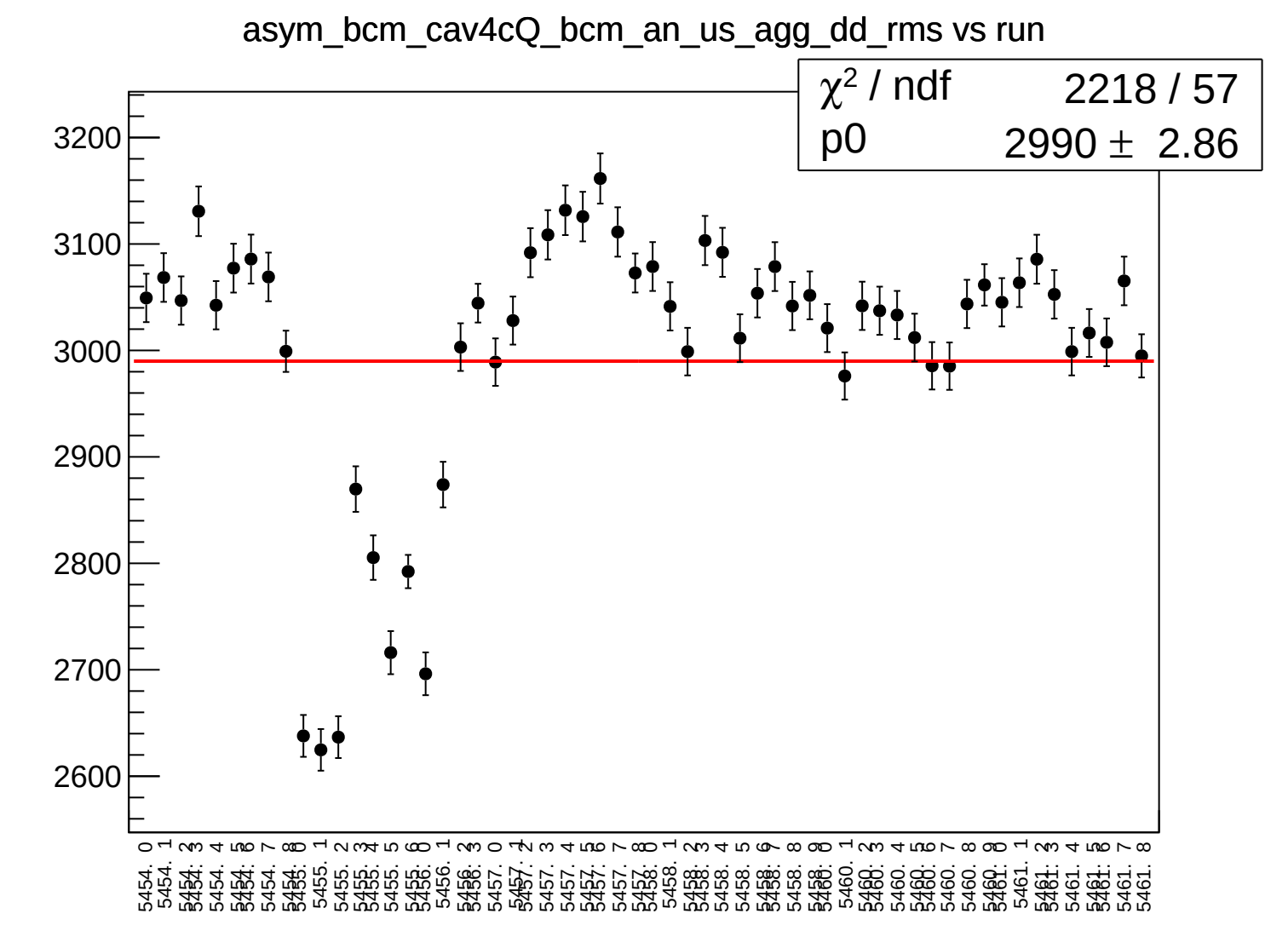

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ² / ndf 79.63 / 57
p0 −237.7 ± 4073
150
100
50
0
−50
−100
pull
Entries 58
Mean 223.7
Std Dev 195.1
3
2
1
0
−1
−2


pull1D
Entries 58
Mean −0.02391
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 2298 / 57
p0 3010 ± 2.88
3200
3100
3000
2900
2800
2700
2600


asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ² / ndf 80.85 / 57
p0 143 ± 4045
150
100
50
0
−50
−100
pull
Entries 58
Mean 200.8
Std Dev 172.1
3
2
1
0
−1
−2
−3


pull1D
Entries 58
Mean −0.02711
Std Dev 1.18
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2218 / 57
p0 2990 ± 2.86
3200
3100
3000
2900
2800
2700
2600
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
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5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
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5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
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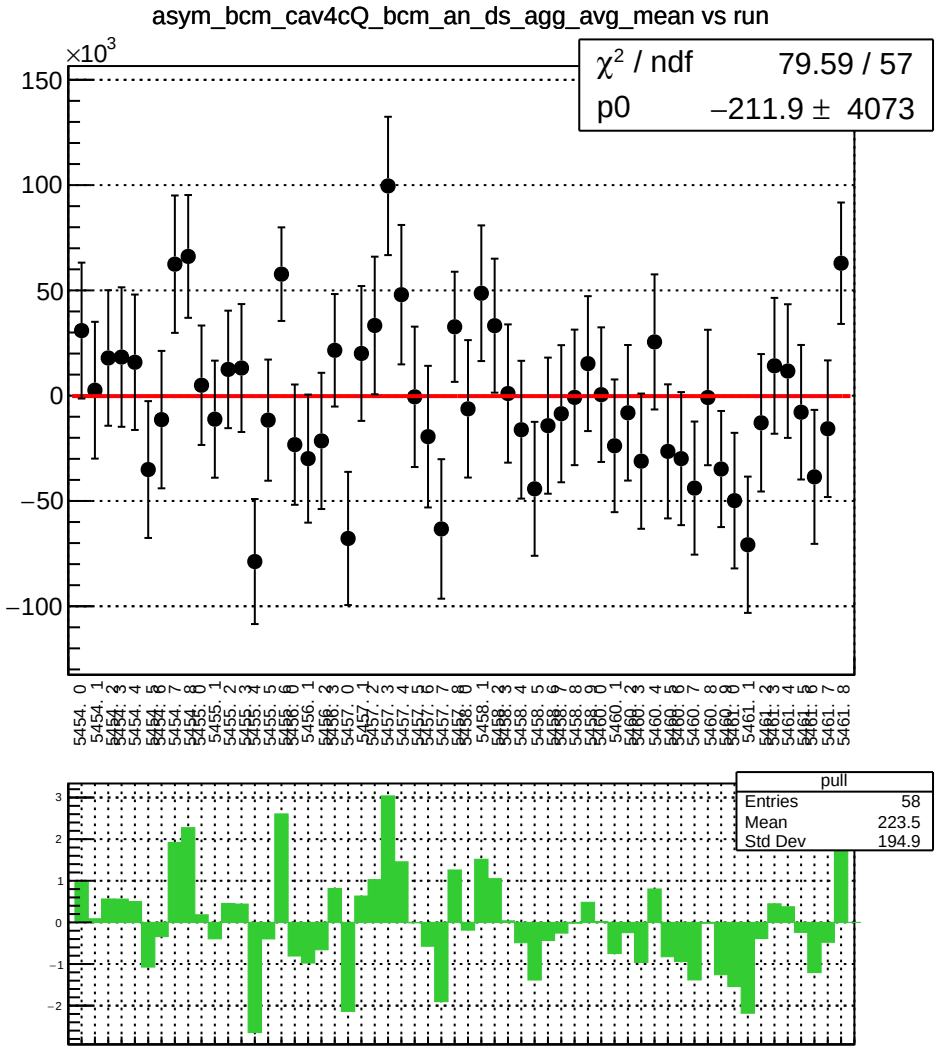
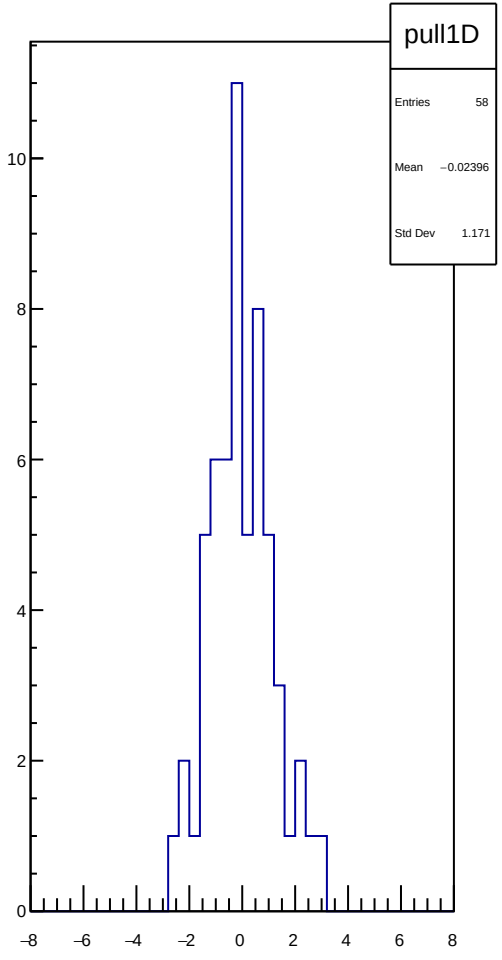
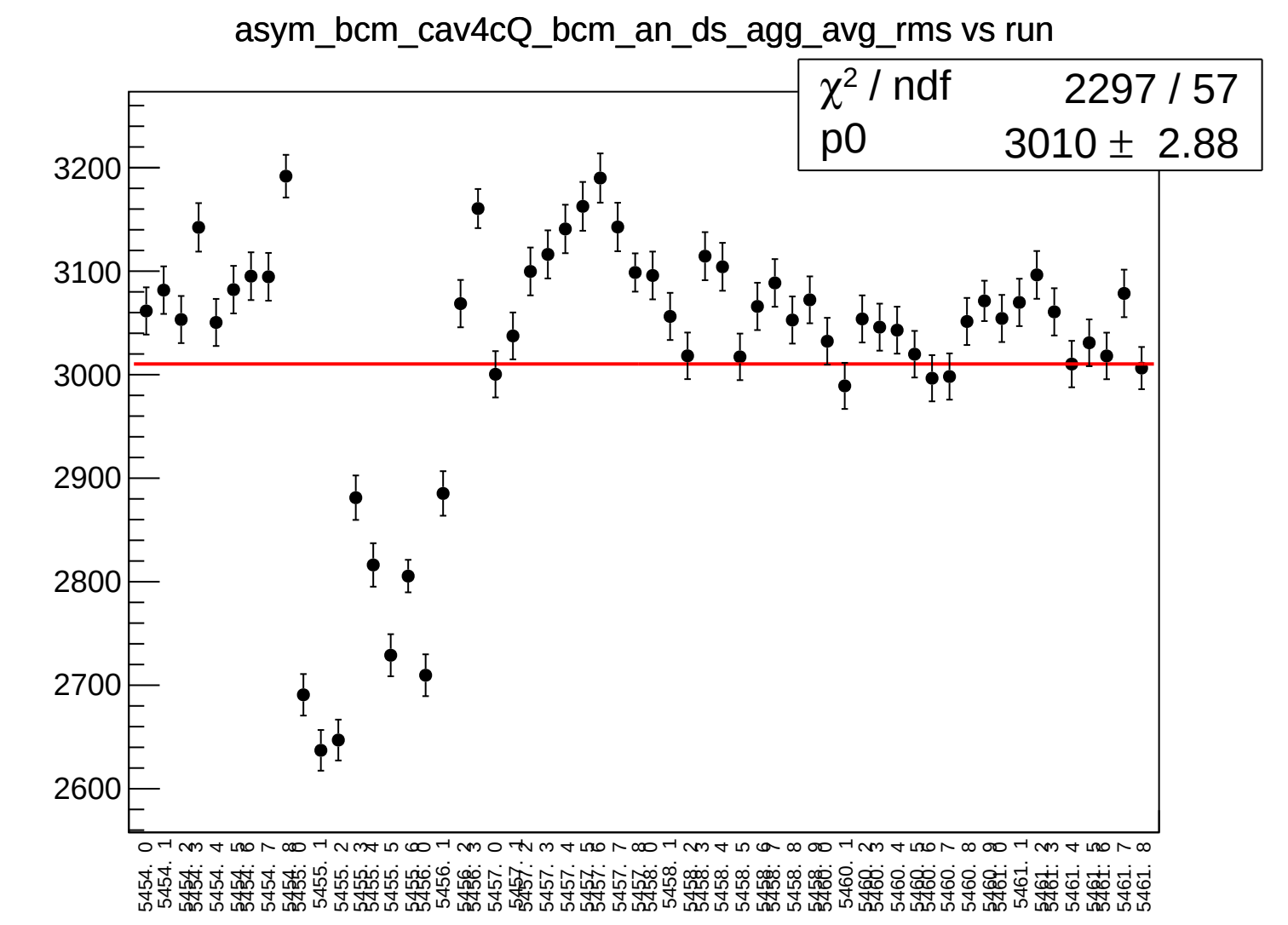
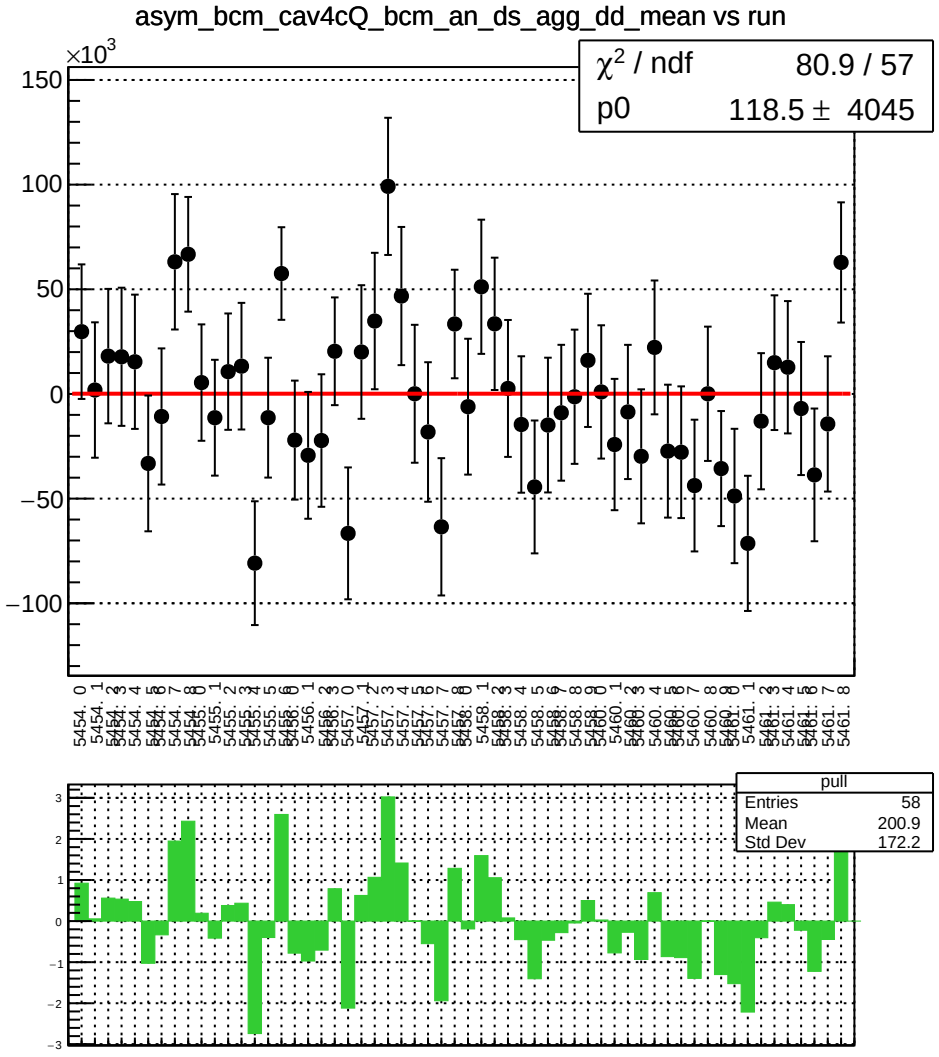
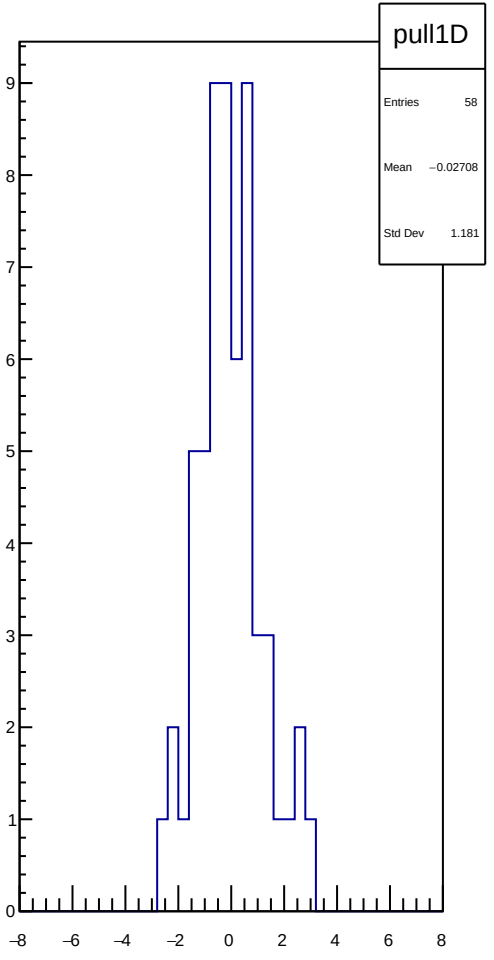
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

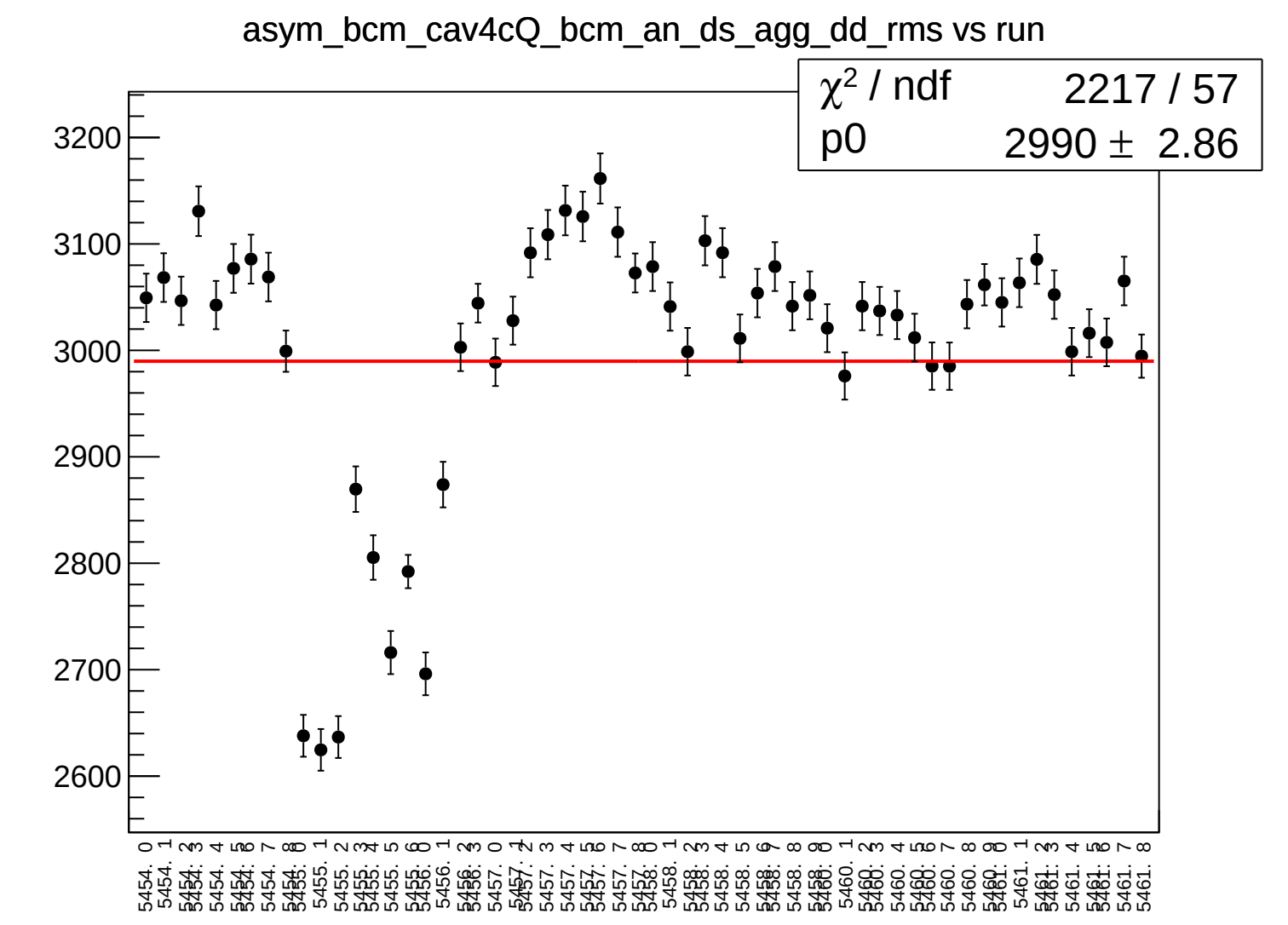

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ² / ndf 79.59 / 57
p0 −211.9 ± 4073
150
100
50
0
−50
−100
pull
Entries 58
Mean 223.5
Std Dev 194.9
3
2
1
0
−1
−2

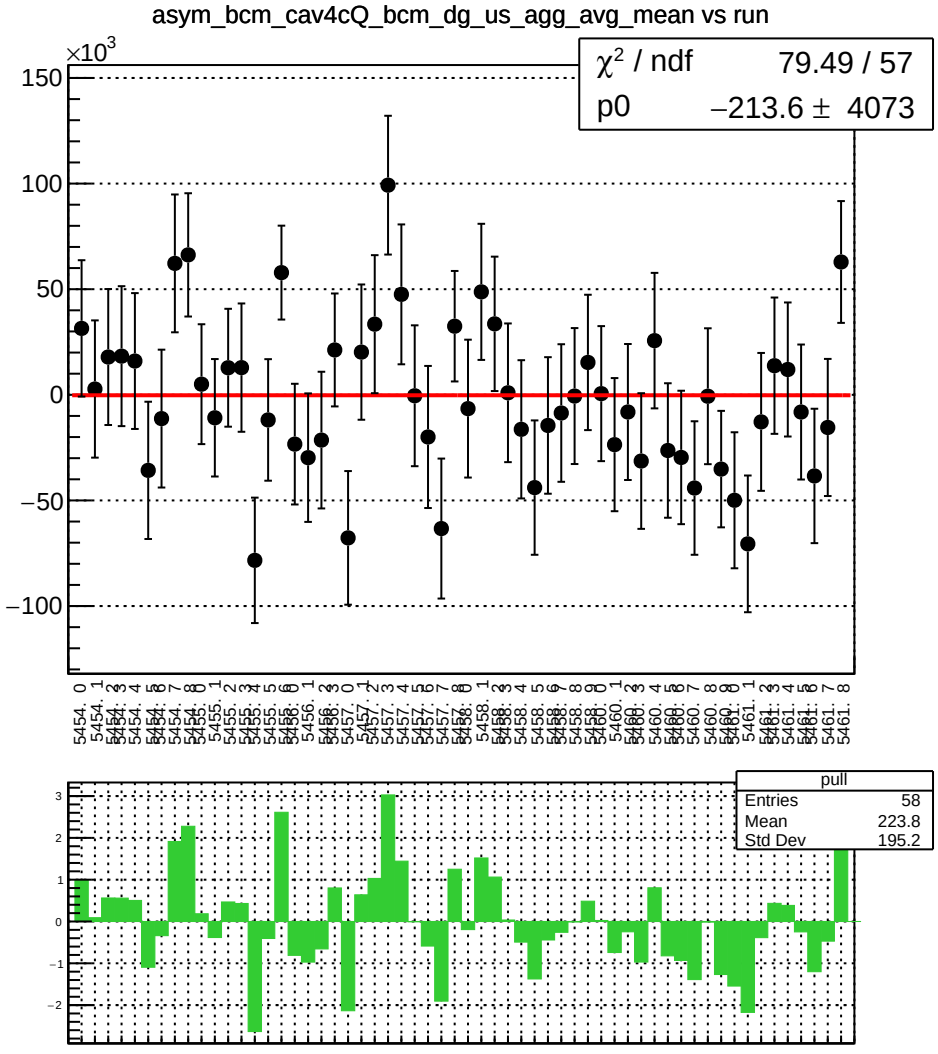

pull1D
Entries 58
Mean −0.02396
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

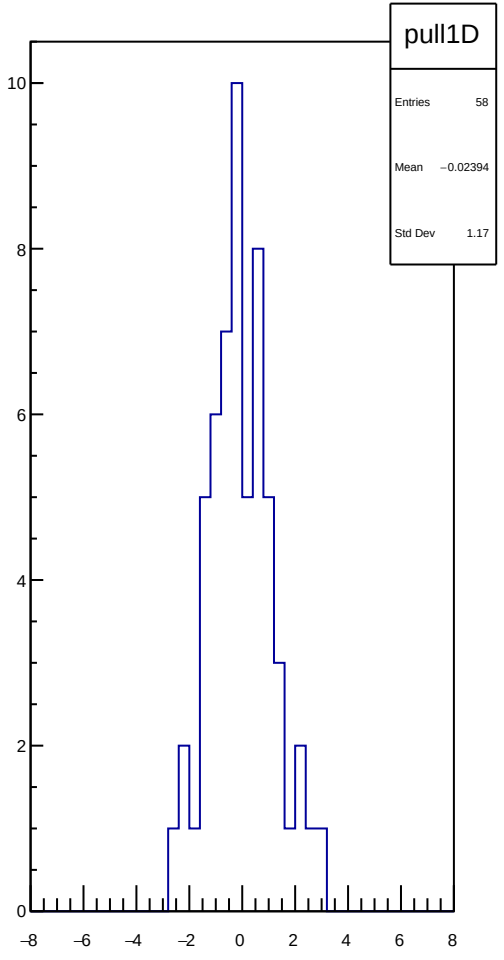

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 2297 / 57
p0 3010 ± 2.88
3200
3100
3000
2900
2800
2700
2600

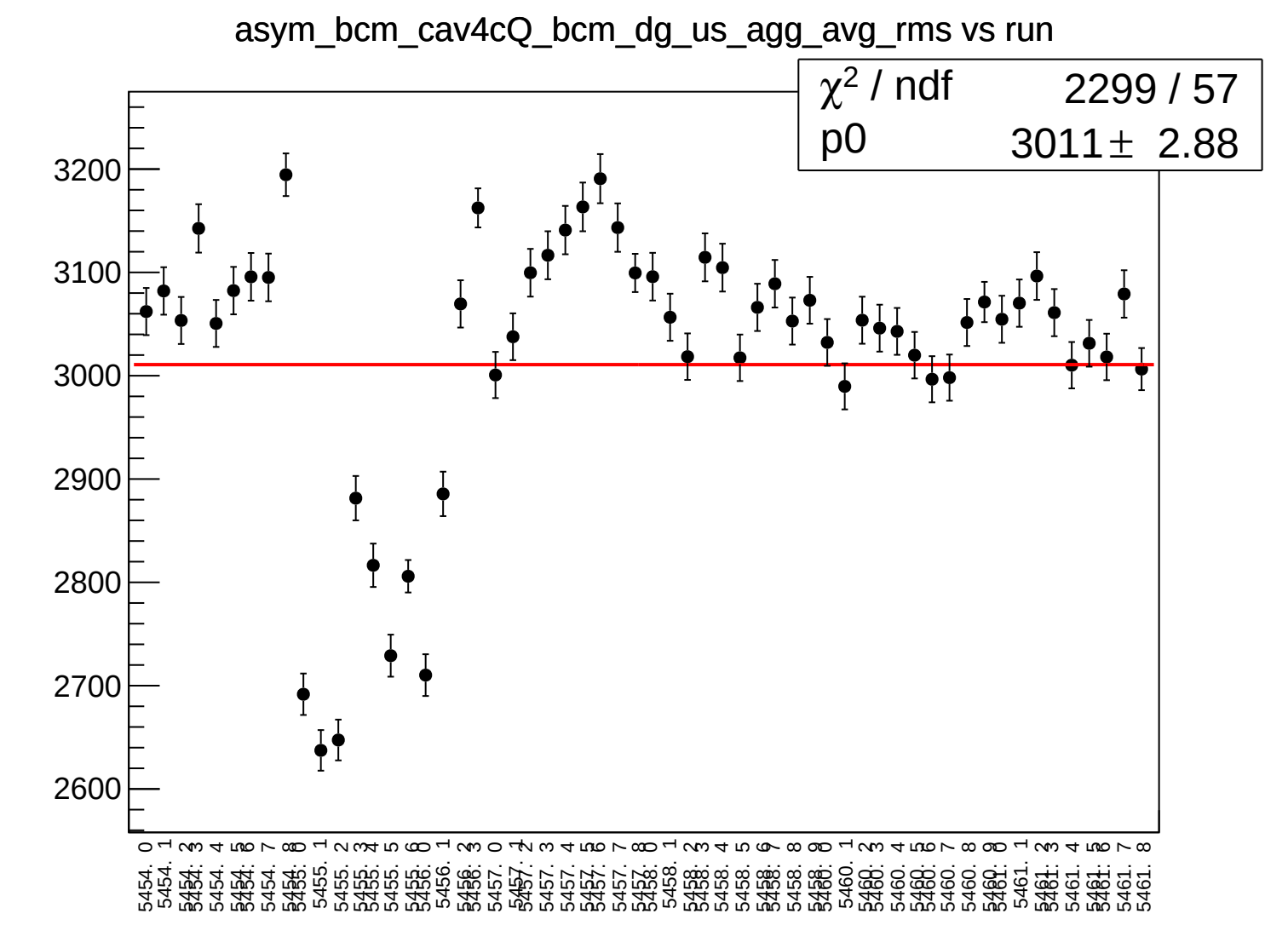

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ^2 / ndf 80.9 / 57
p0 118.5 ± 4045
150
100
50
0
−50
−100
pull
Entries 58
Mean 200.9
Std Dev 172.2
3
2
1
0
−1
−2
−3

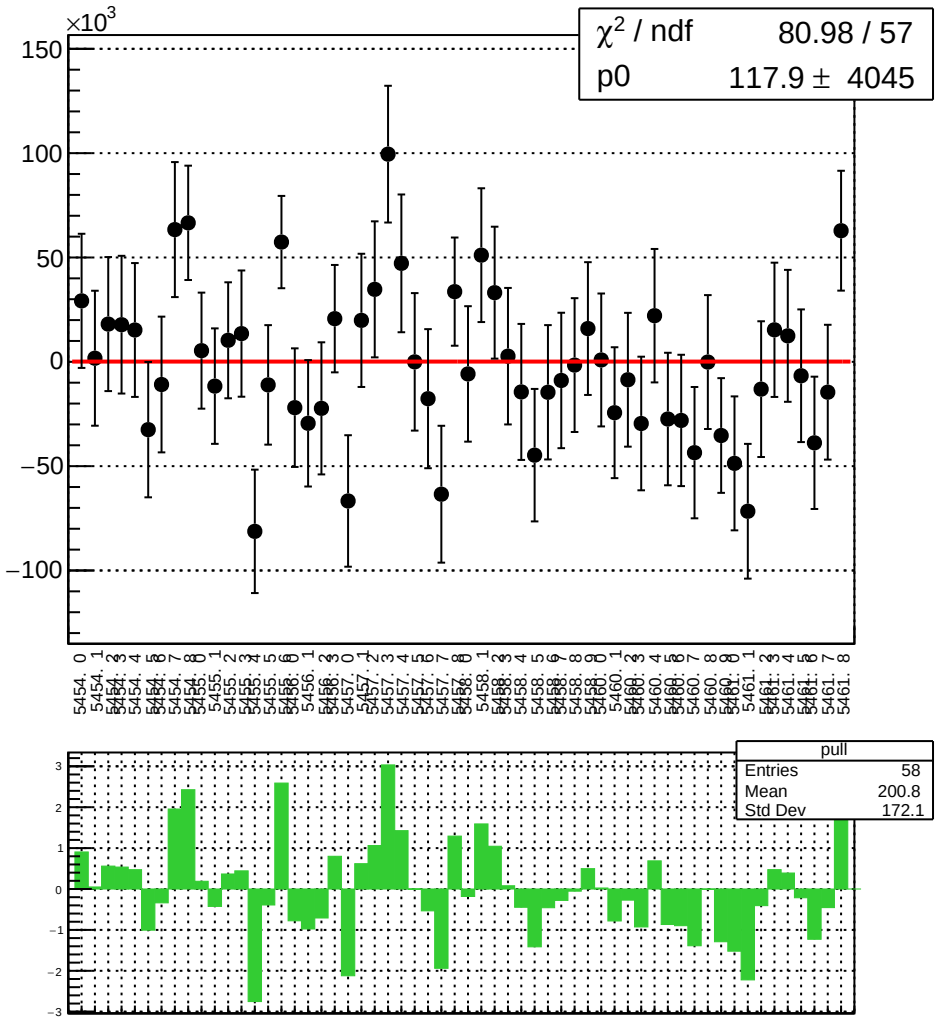

pull1D
Entries 58
Mean −0.02708
Std Dev 1.181
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

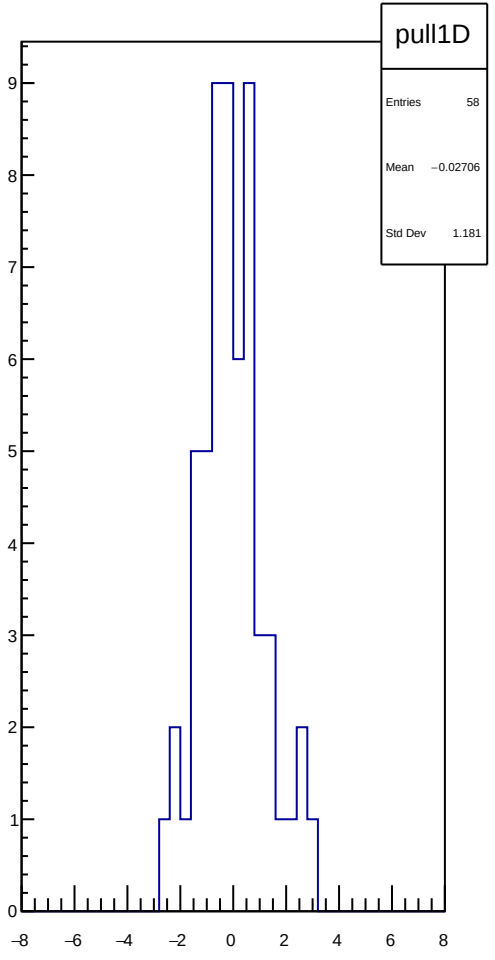

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2217 / 57
p0 2990 ± 2.86
3200
3100
3000
2900
2800
2700
2600
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

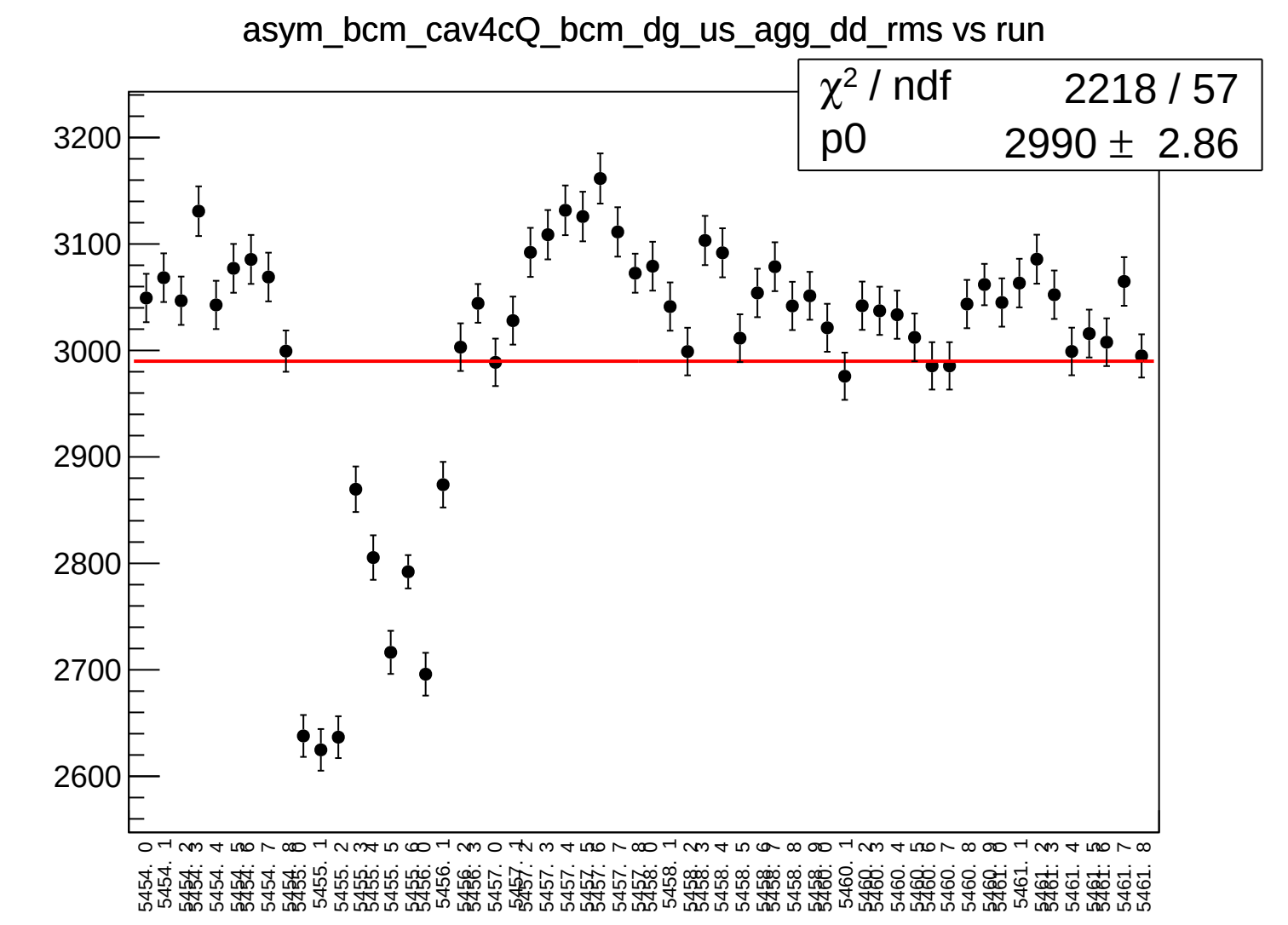

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ² / ndf 79.49 / 57
p0 −213.6 ± 4073
150
100
50
0
−50
−100
pull
Entries 58
Mean 223.8
Std Dev 195.2
3
2
1
0
−1
−2

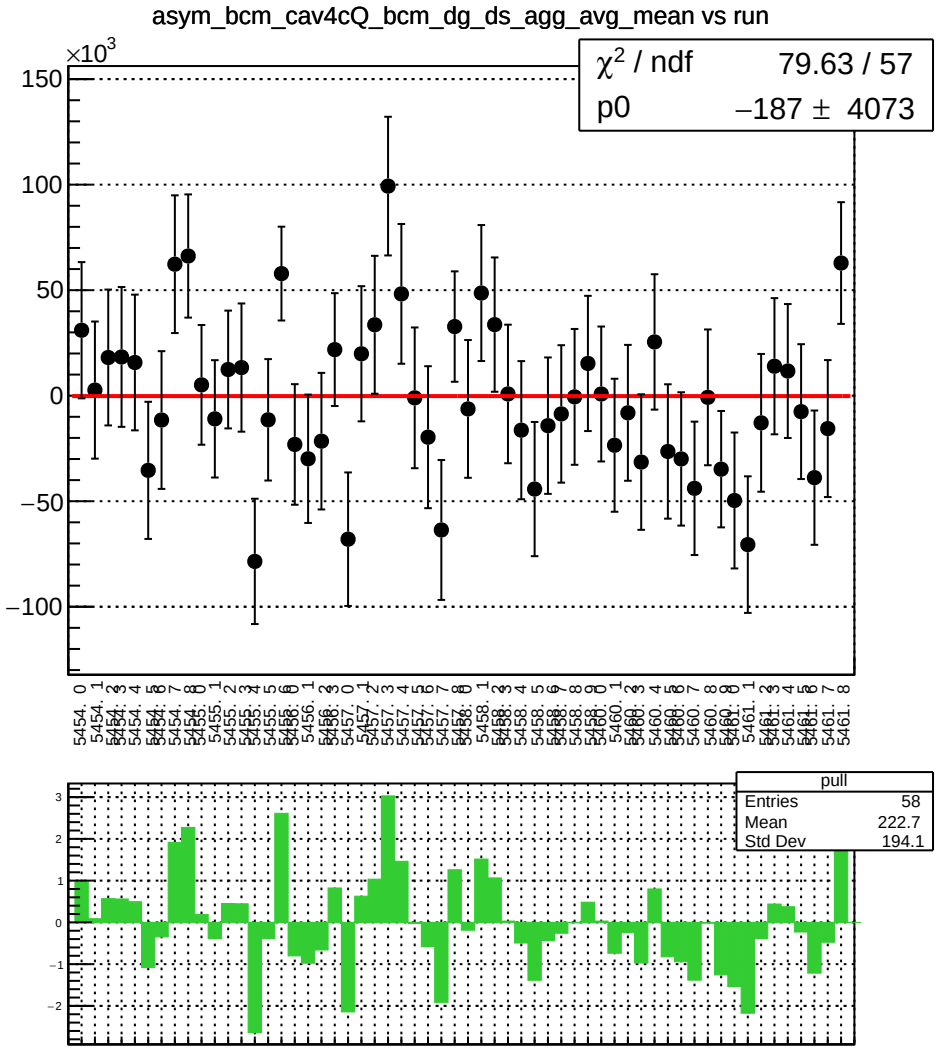

pull1D
Entries 58
Mean −0.02394
Std Dev 1.17
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

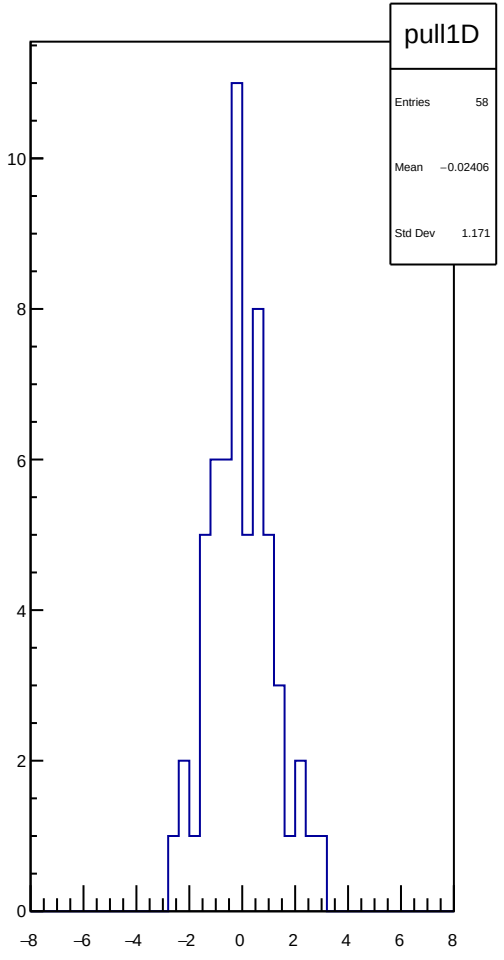

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 2299 / 57
p0 3011 ± 2.88
3200
3100
3000
2900
2800
2700
2600
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

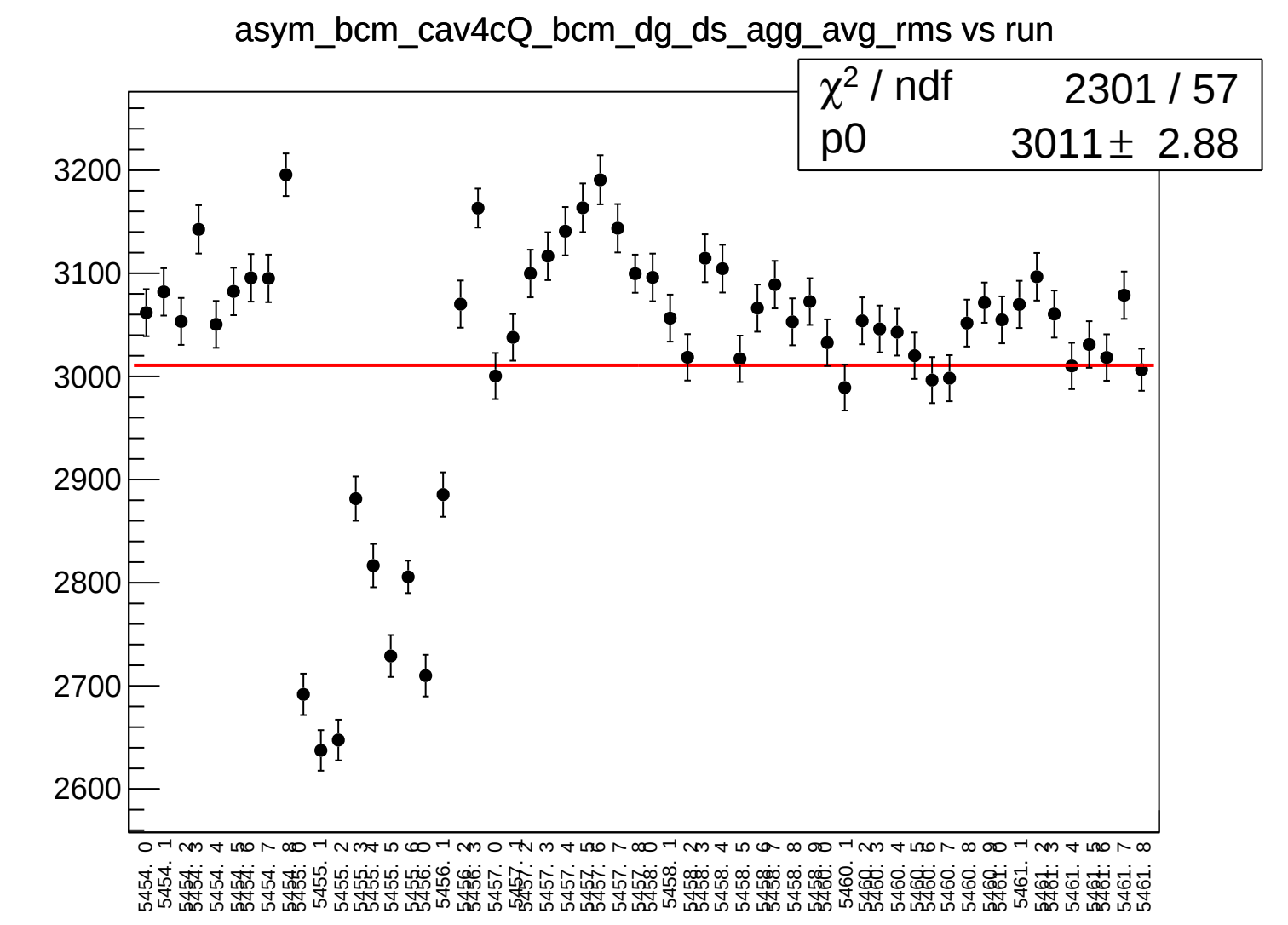

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ² / ndf 80.98 / 57
p0 117.9 ± 4045
150
100
50
0
−50
−100
pull
Entries 58
Mean 200.8
Std Dev 172.1
3
2
1
0
−1
−2
−3

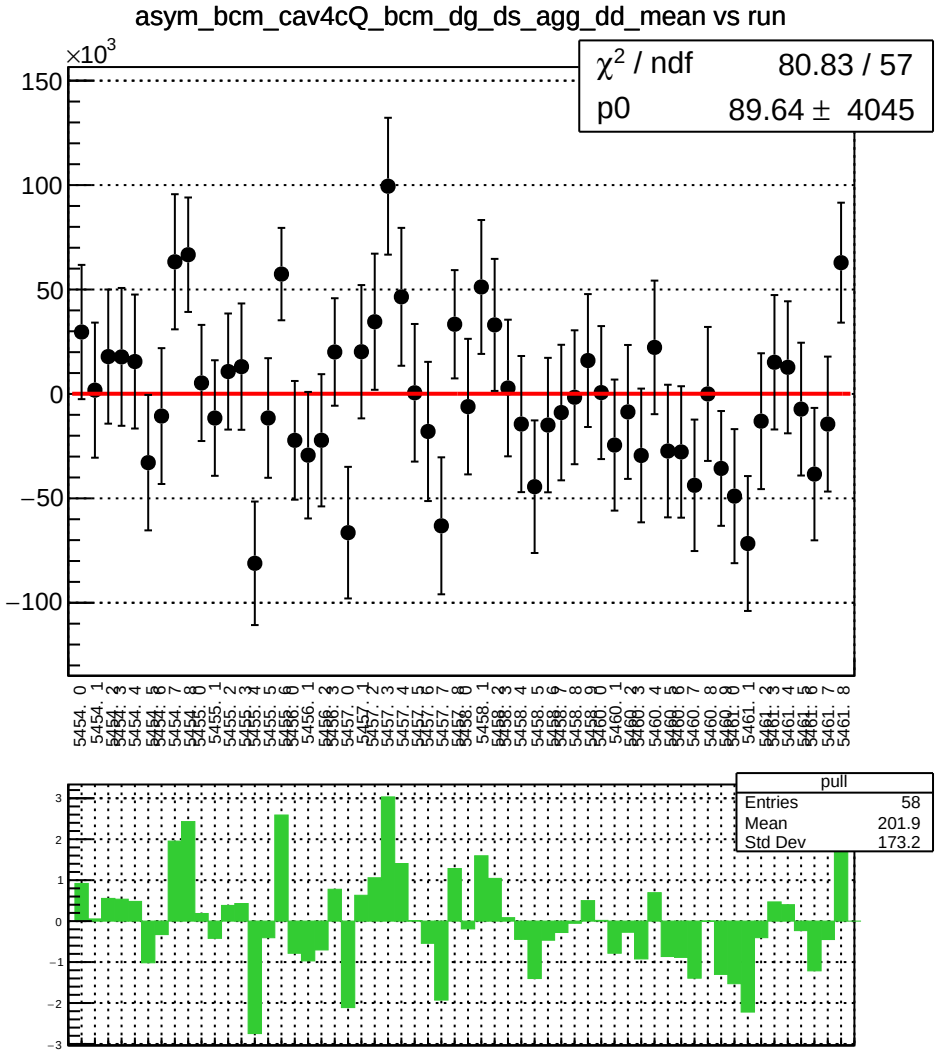

pull1D
Entries 58
Mean −0.02706
Std Dev 1.181
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

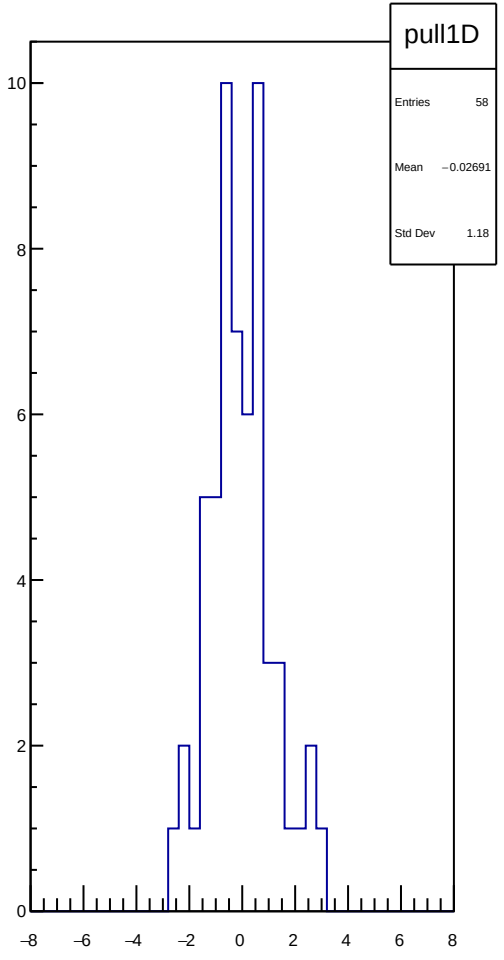

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 2218 / 57
p0 2990 ± 2.86
3200
3100
3000
2900
2800
2700
2600
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

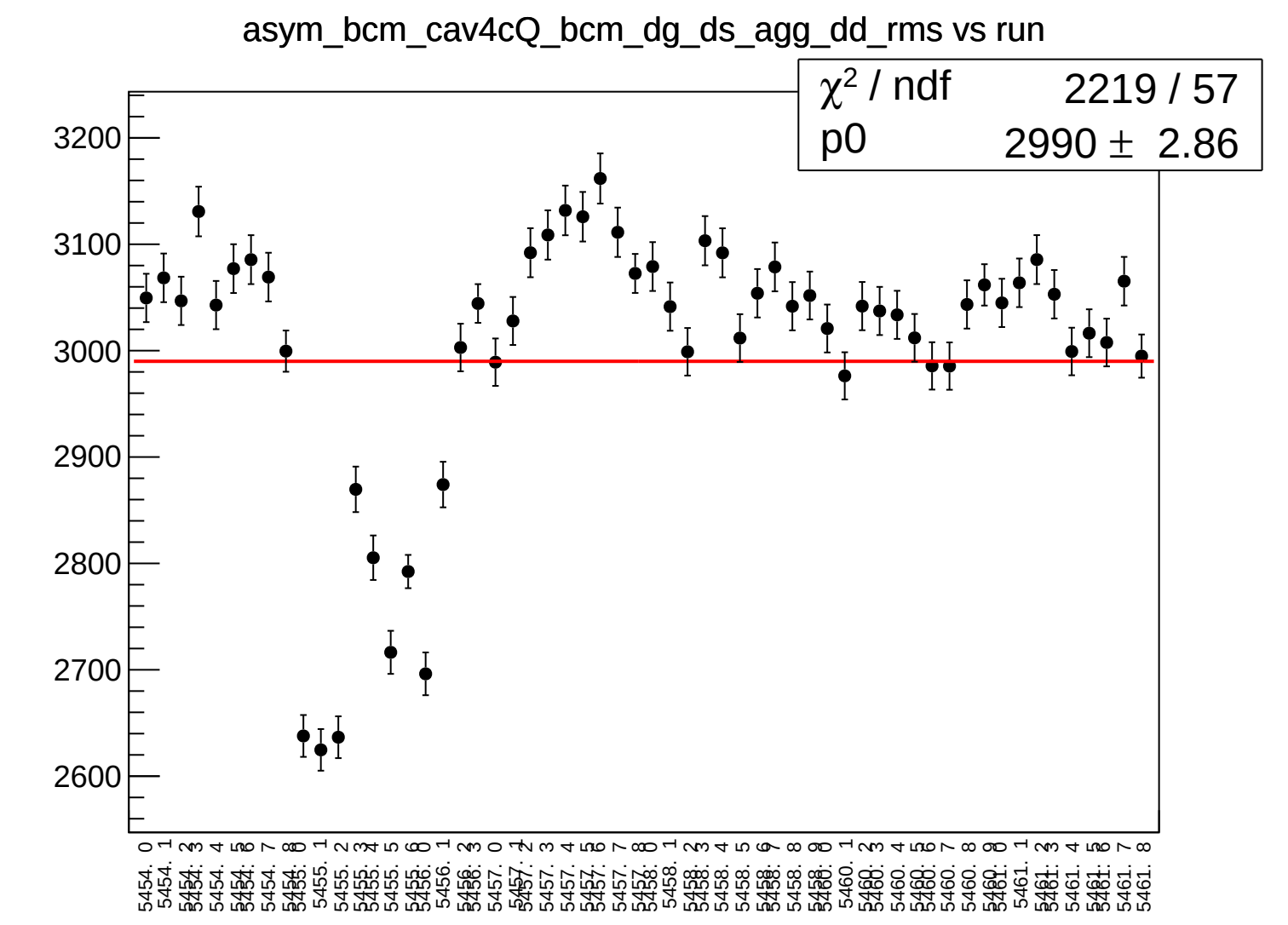

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ² / ndf 79.63 / 57
p0 −187 ± 4073
150
100
50
0
−50
−100
pull
Entries 58
Mean 222.7
Std Dev 194.1
3
2
1
0
−1
−2

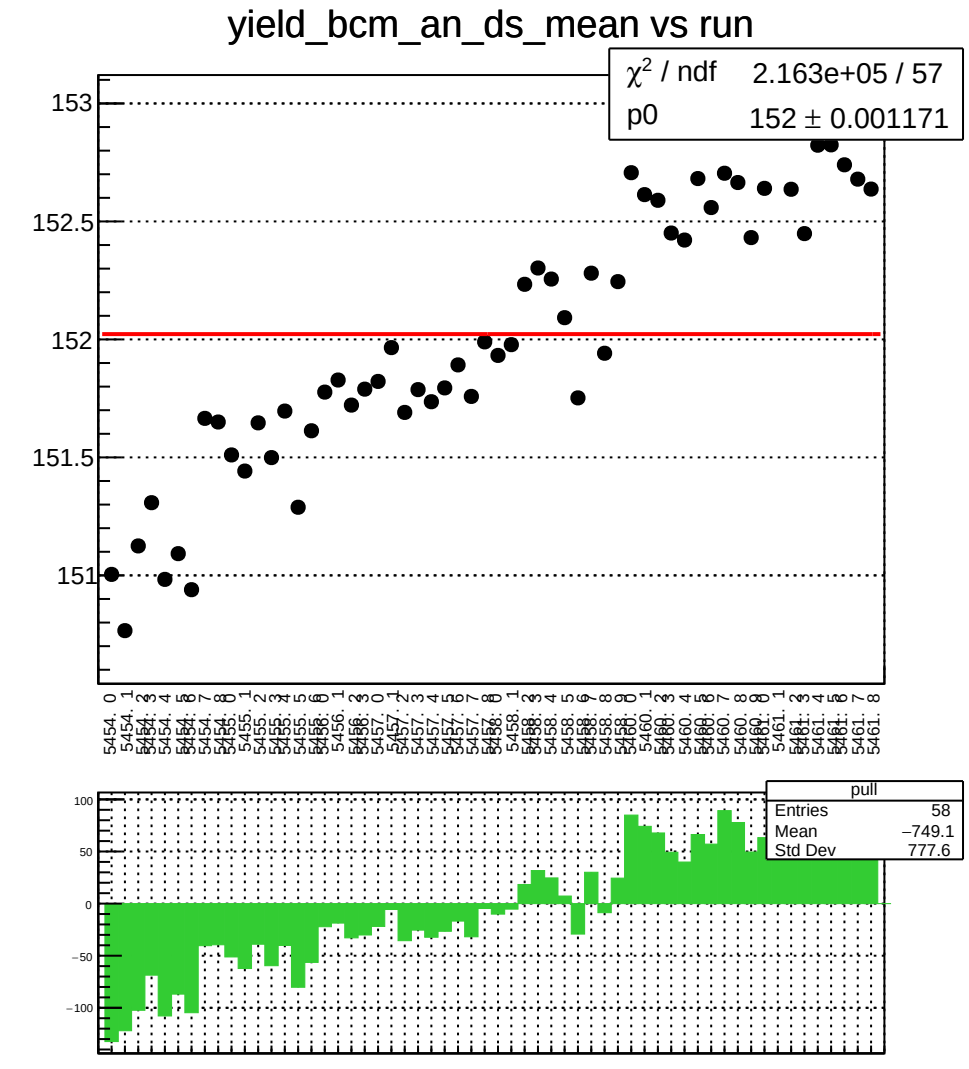

pull1D
Entries 58
Mean −0.02406
Std Dev 1.171
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

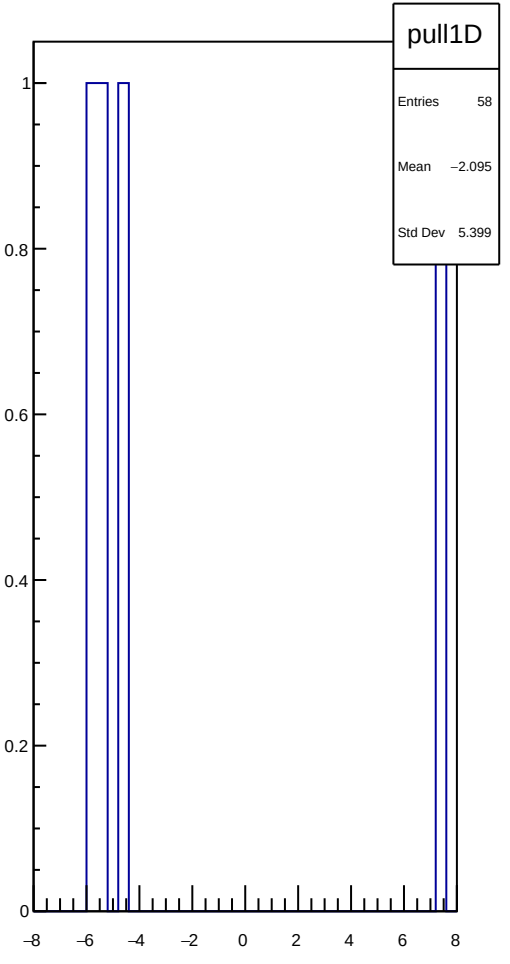

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 2301 / 57
p0 3011 ± 2.88
3200
3100
3000
2900
2800
2700
2600

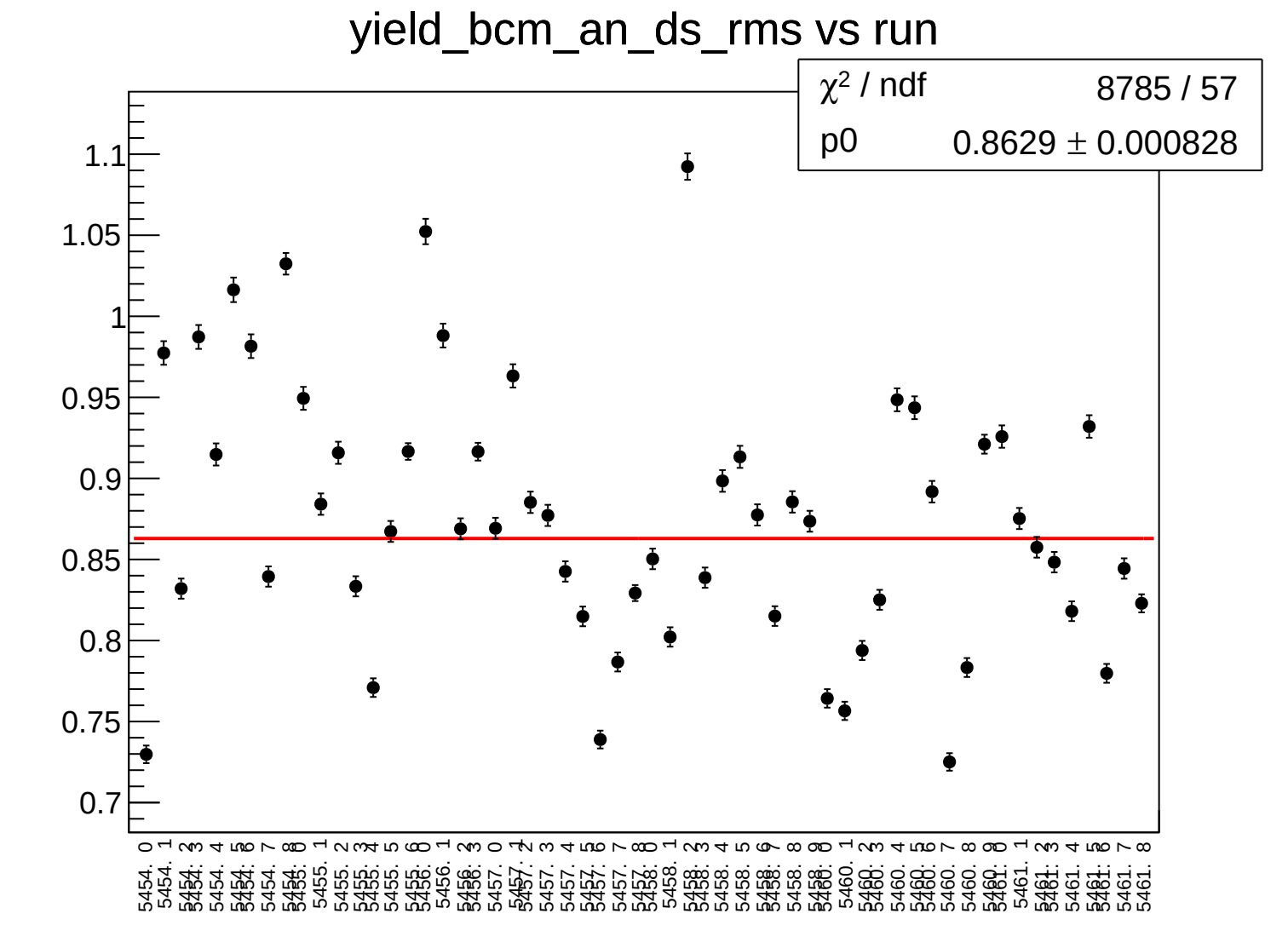

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ^2 / ndf 80.83 / 57
p0 89.64 ± 4045
150
100
50
0
−50
−100
pull
Entries 58
Mean 201.9
Std Dev 173.2
3
2
1
0
−1
−2
−3

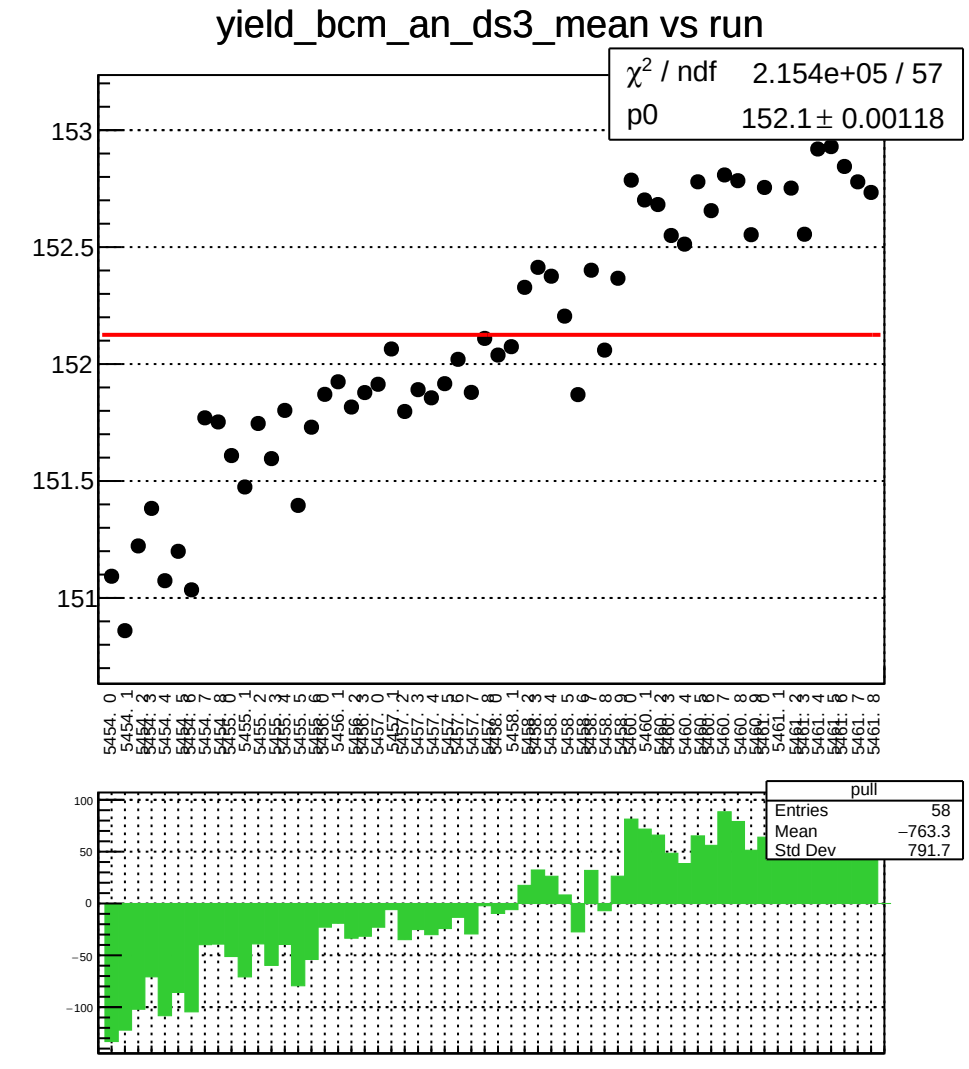

pull1D
Entries 58
Mean −0.02691
Std Dev 1.18
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

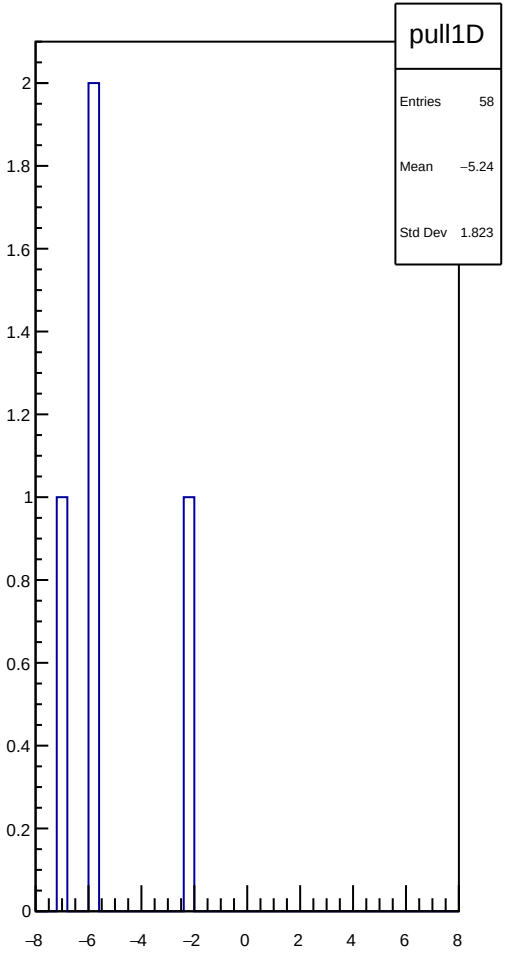

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2219 / 57
p0 2990 ± 2.86
3200
3100
3000
2900
2800
2700
2600

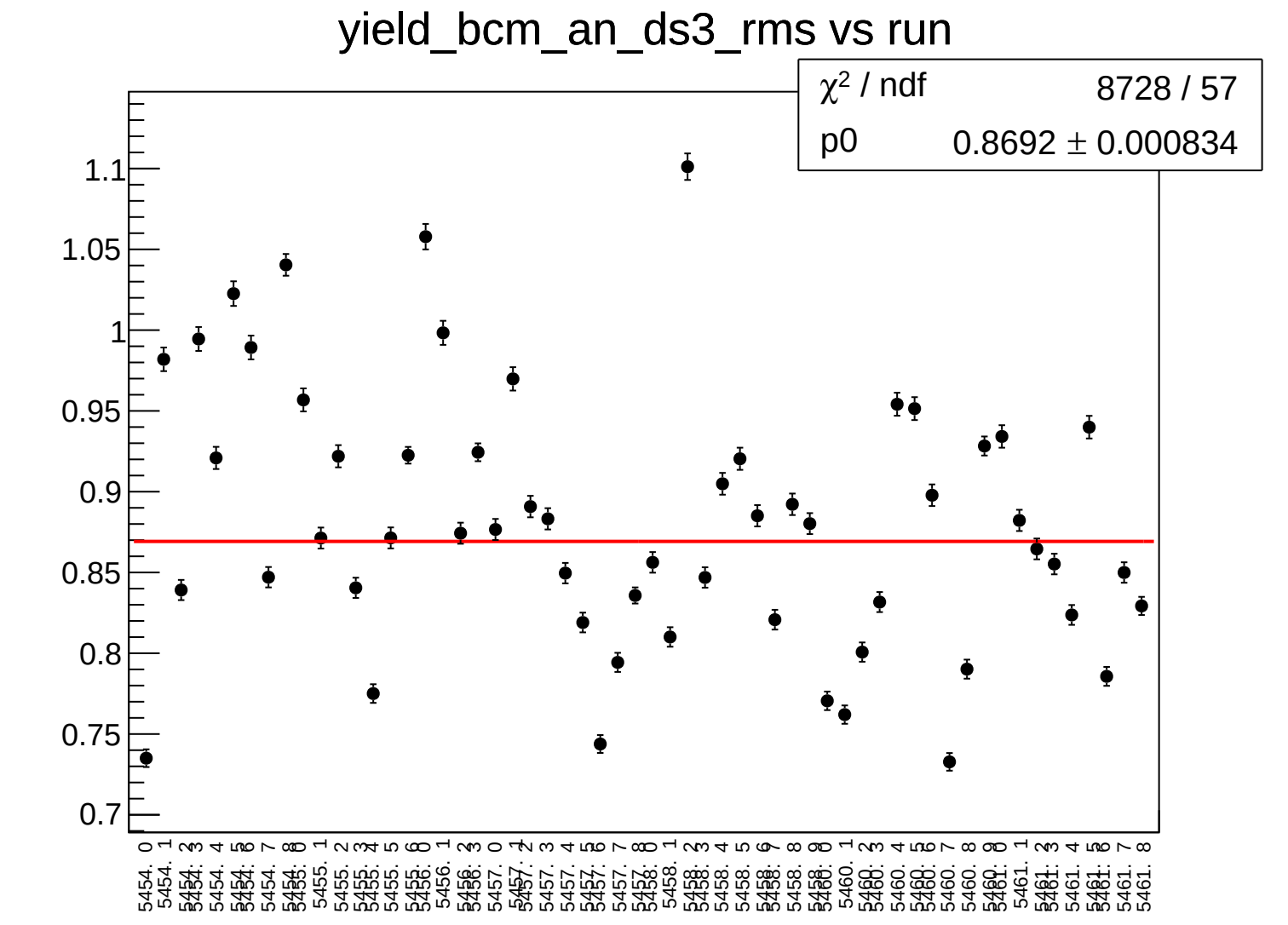

yield_bcm_an_ds_mean vs run
χ² / ndf 2.163e+05 / 57
p0 152 ± 0.001171
153
152.5
152
151.5
151
pull
Entries 58
Mean −749.1
Std Dev 777.6
100
50
0
−50
−100

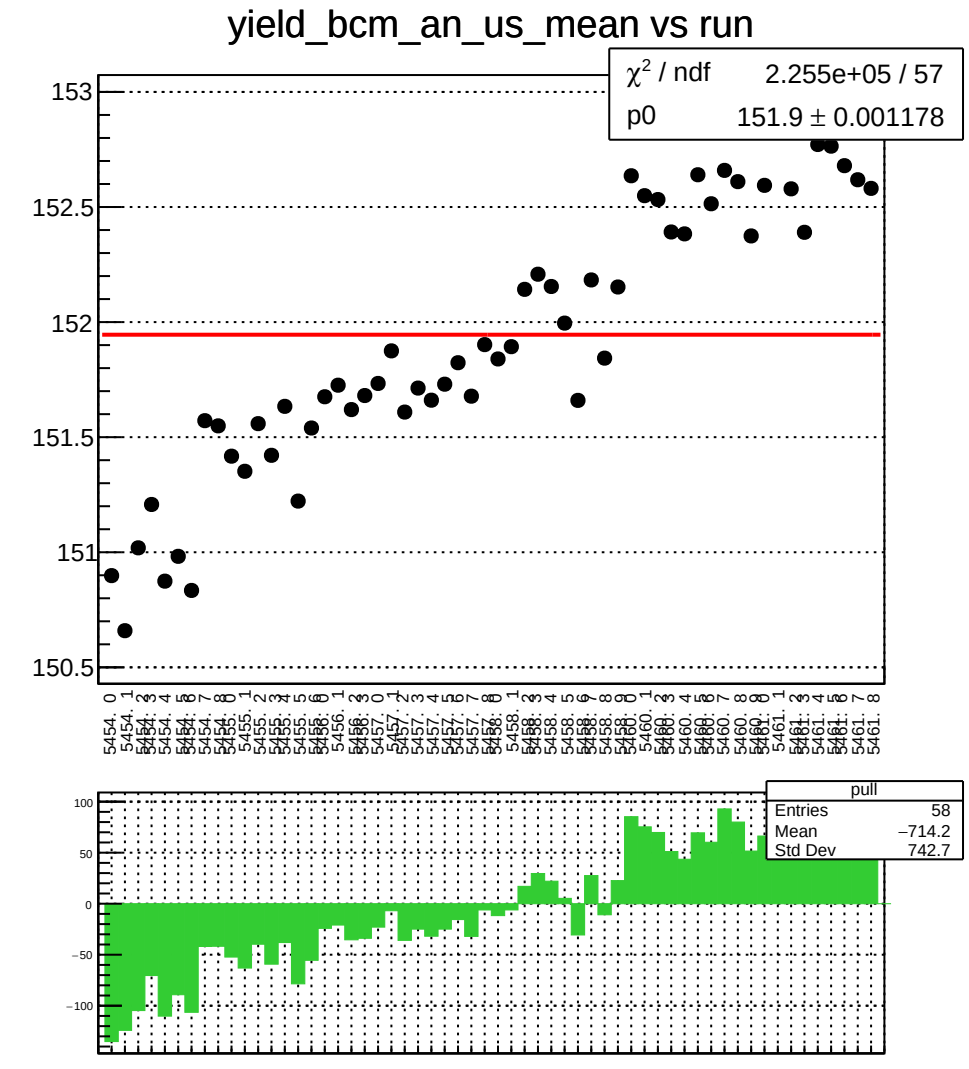

pull1D
Entries 58
Mean −2.095
Std Dev 5.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

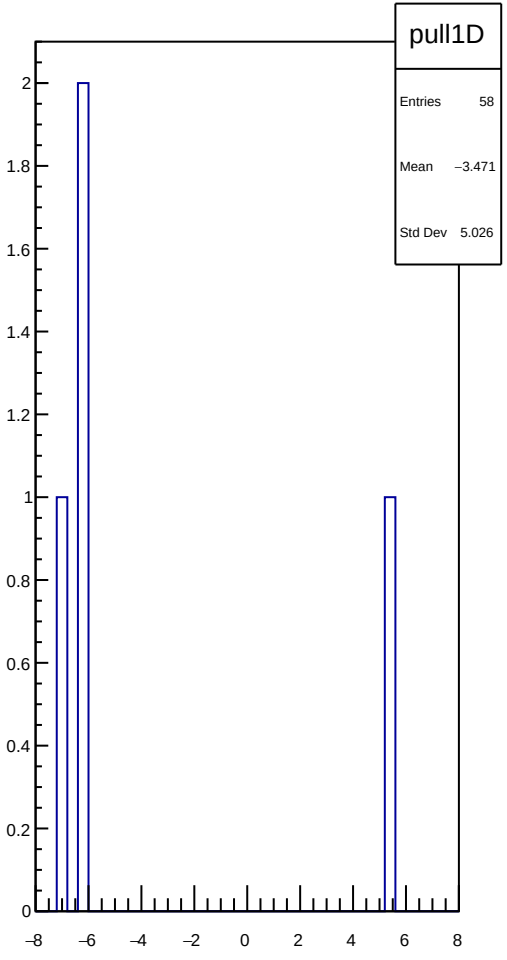

yield_bcm_an_ds_rms vs run
χ² / ndf 8785 / 57
p0 0.8629 ± 0.000828
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7

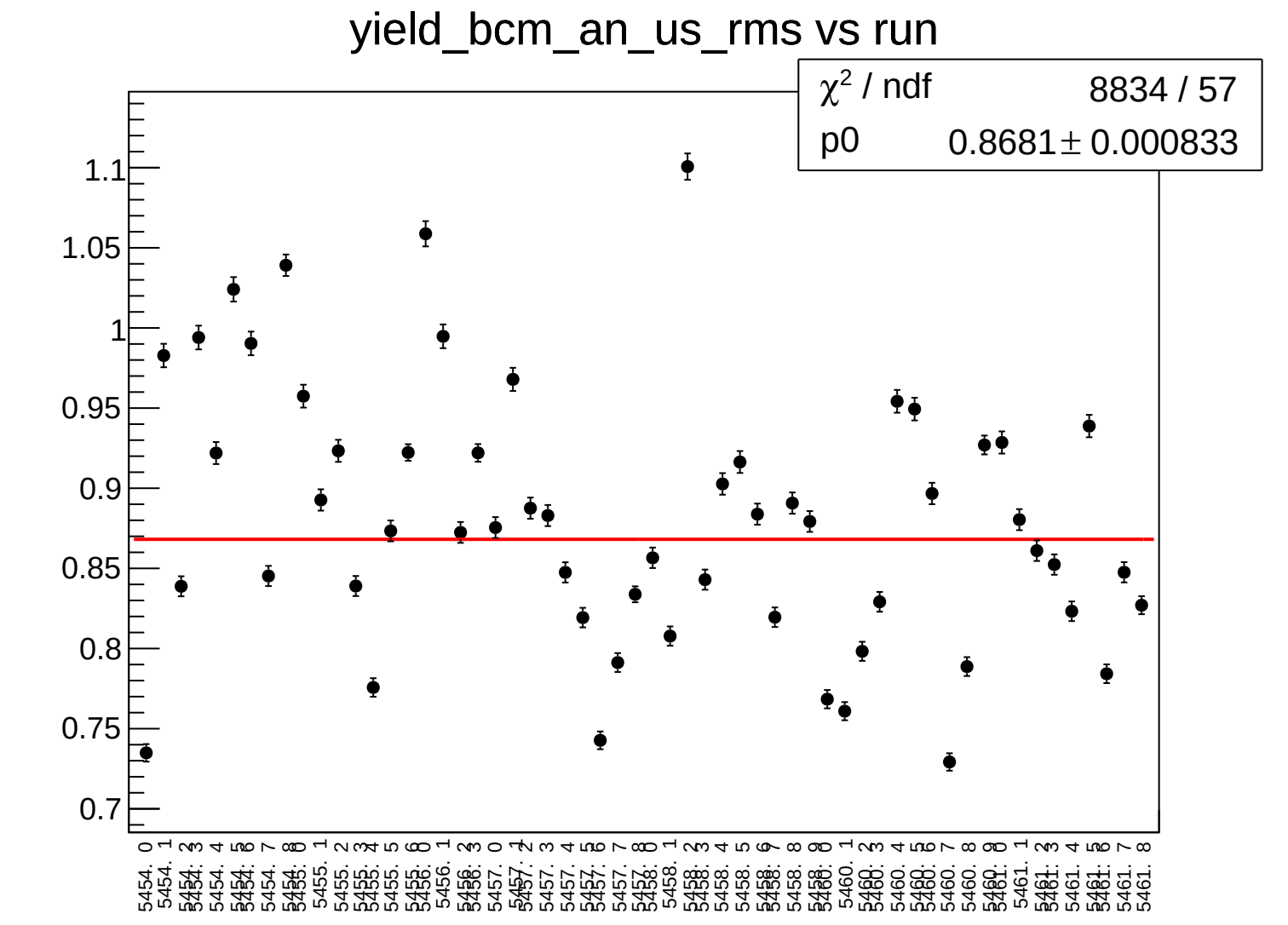

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.154e+05 / 57
p0 152.1 ± 0.00118
153
152.5
152
151.5
151
pull
Entries 58
Mean −763.3
Std Dev 791.7
100
50
0
−50
−100


pull1D
Entries 58
Mean −5.24
Std Dev 1.823
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_ds3_rms vs run
χ² / ndf 8728 / 57
p0 0.8692 ± 0.000834
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7


yield_bcm_an_us_mean vs run
χ² / ndf 2.255e+05 / 57
p0 151.9 ± 0.001178
153
152.5
152
151.5
151
150.5
pull
Entries 58
Mean −714.2
Std Dev 742.7
100
50
0
−50
−100


pull1D
Entries 58
Mean −3.471
Std Dev 5.026
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_bcm_an_us_rms vs run
χ² / ndf 8834 / 57
p0 0.8681 ± 0.000833
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
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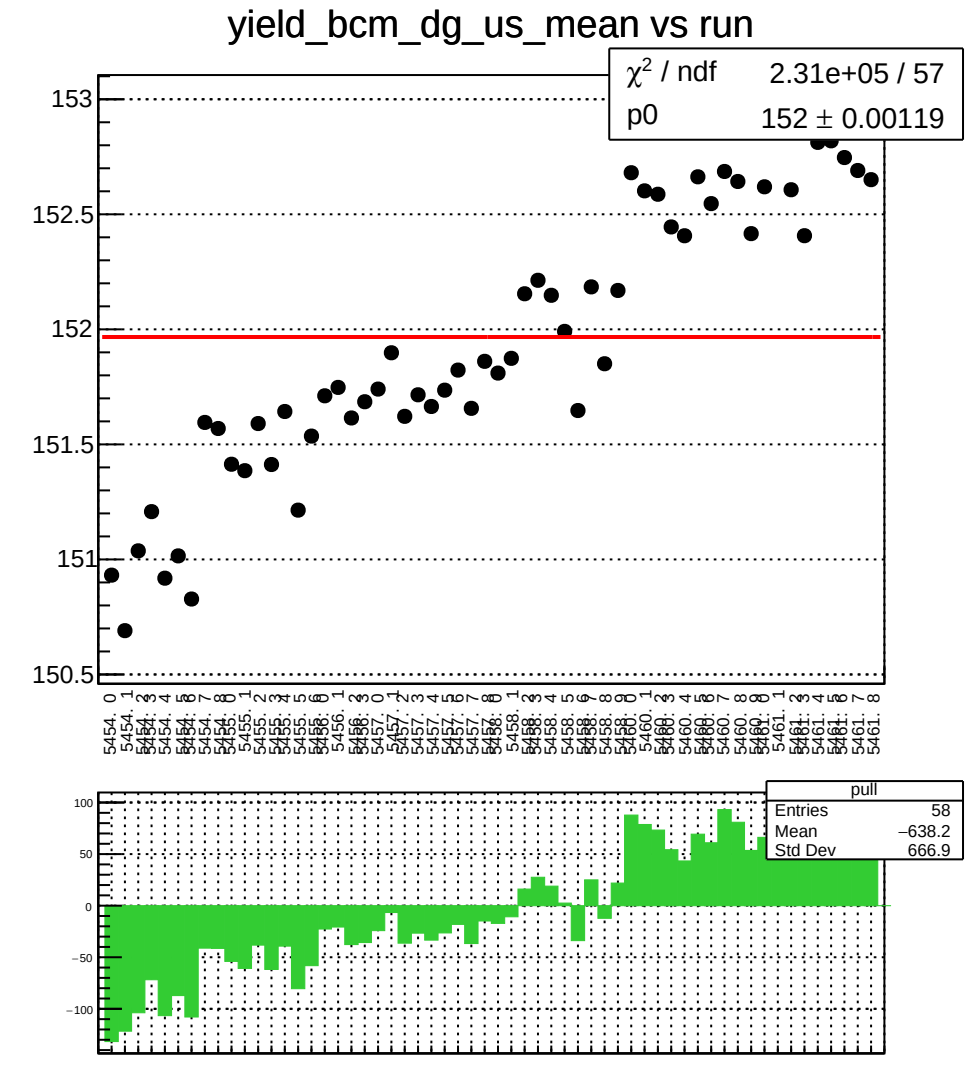
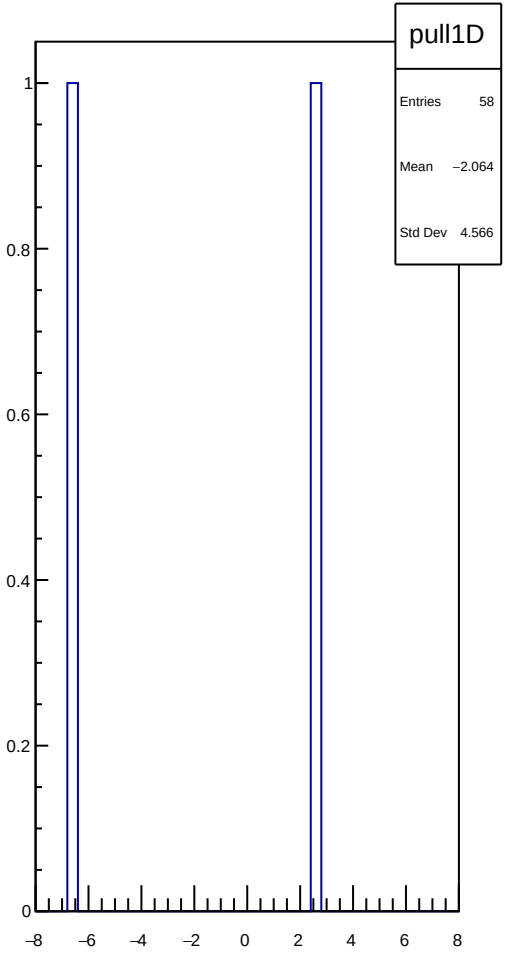
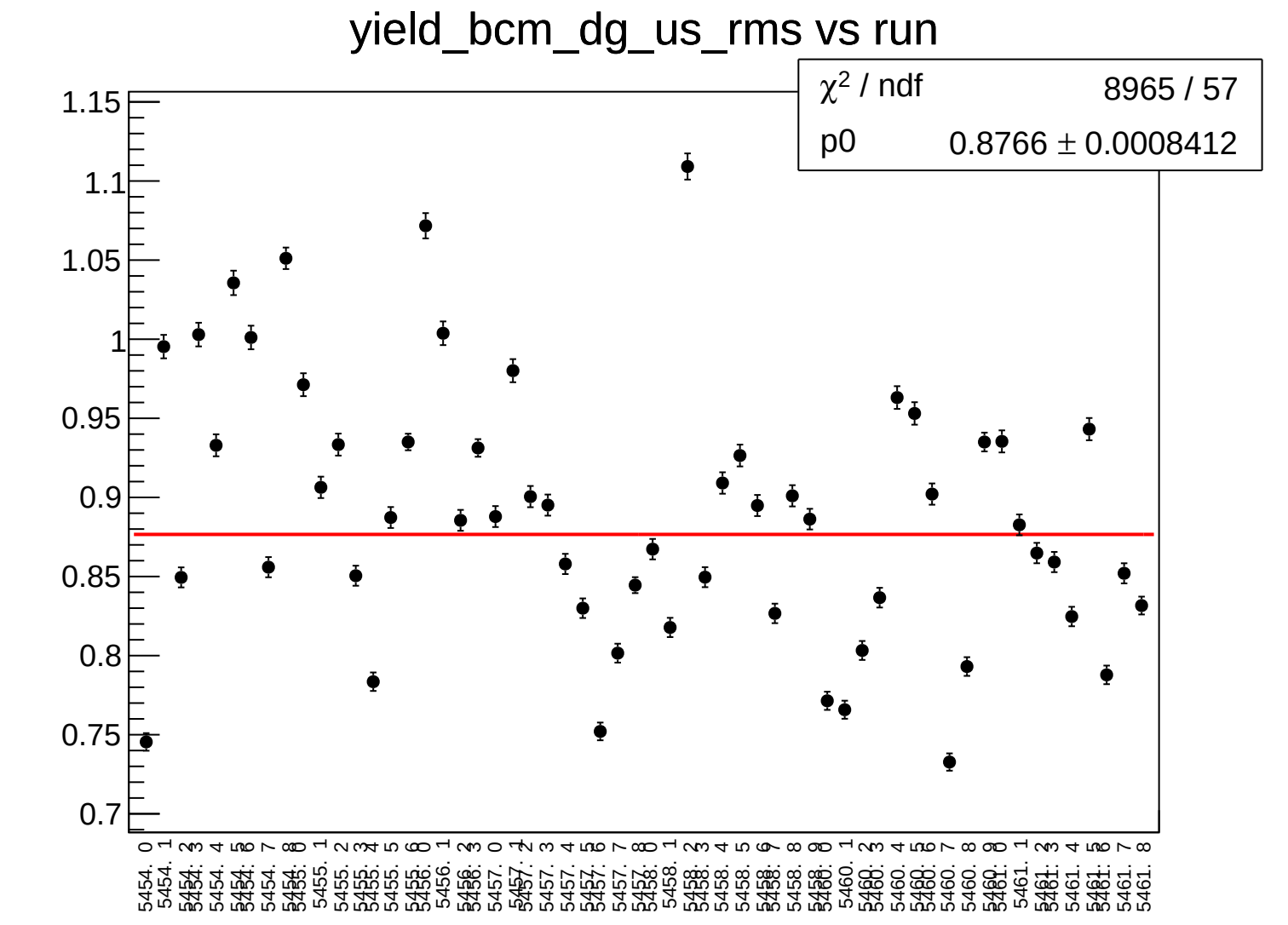
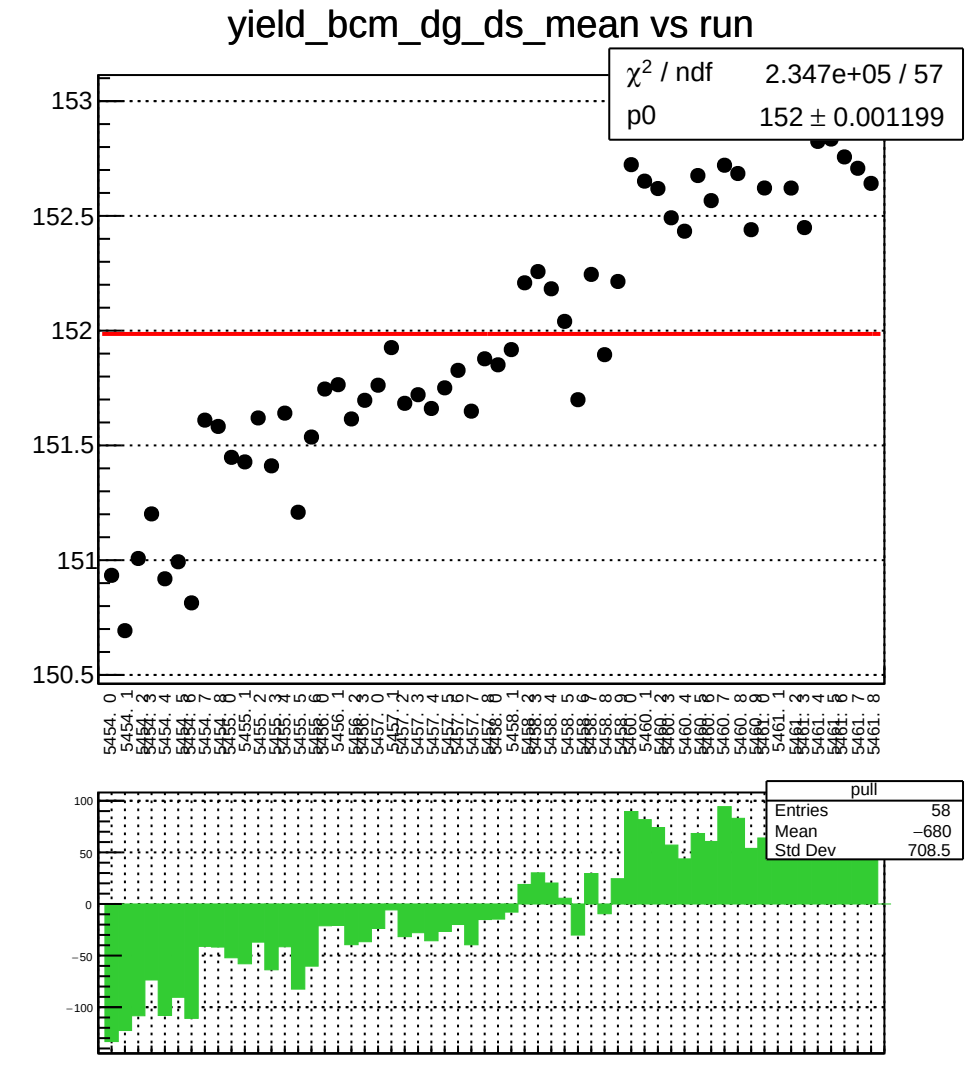
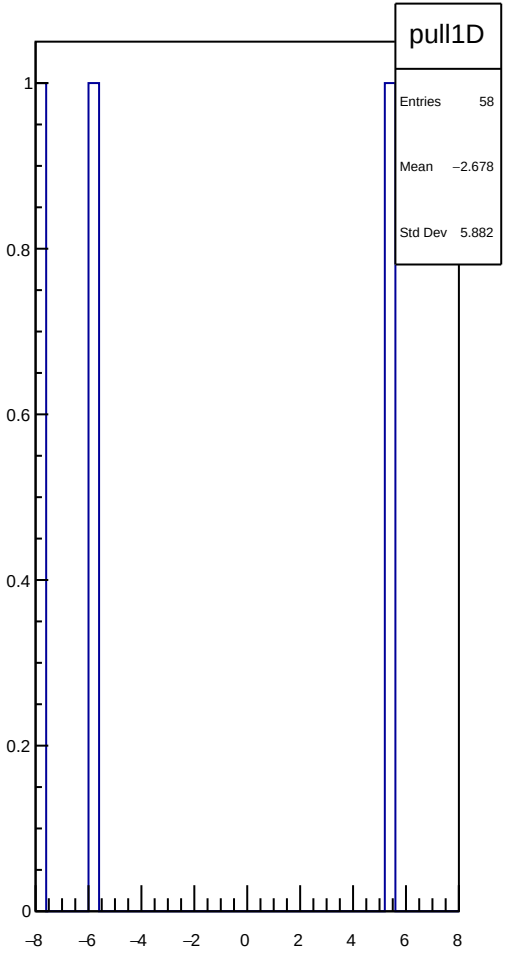
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

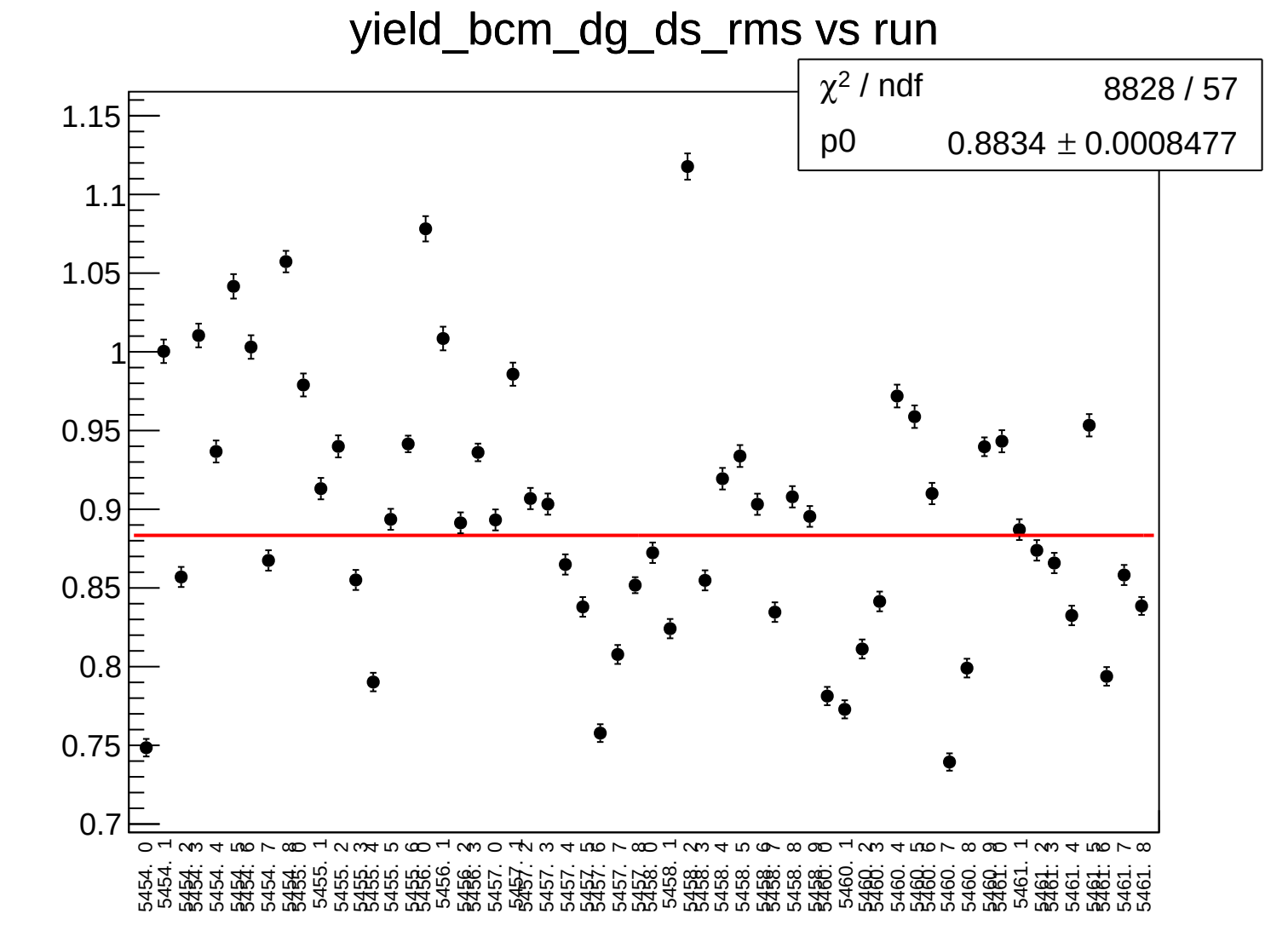

yield_bcm_dg_us_mean vs run
χ² / ndf 2.31e+05 / 57
p0 152 ± 0.00119
153
152.5
152
151.5
151
150.5
pull
Entries 58
Mean −638.2
Std Dev 666.9
100
50
0
−50
−100

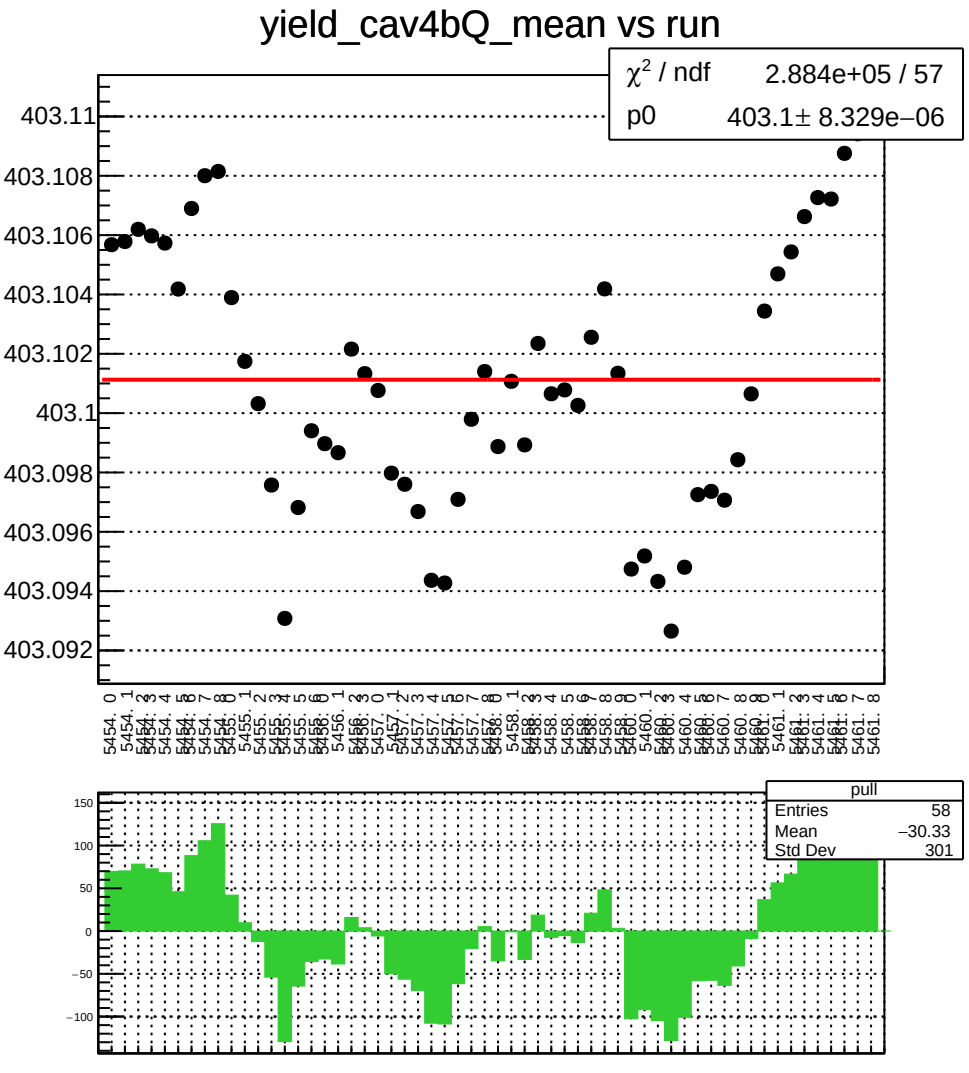

pull1D
Entries 58
Mean −2.064
Std Dev 4.566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

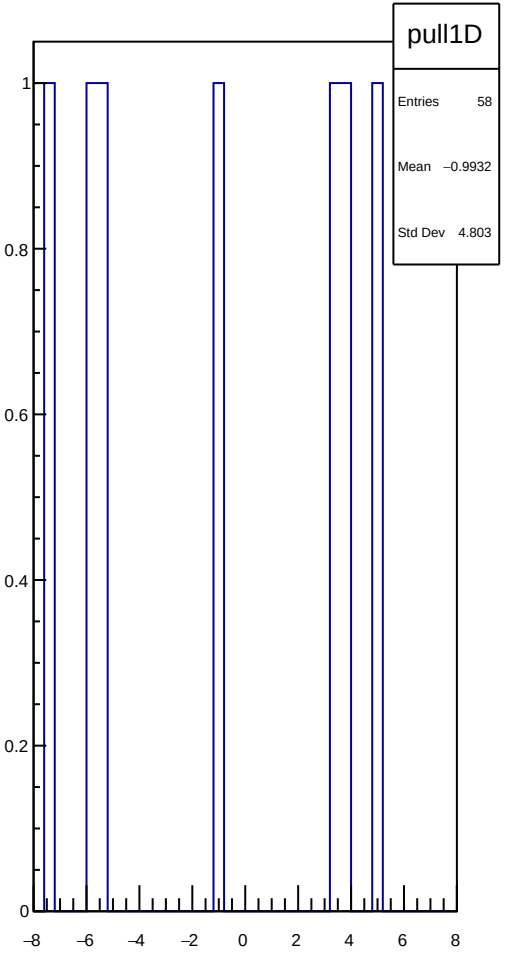

yield_bcm_dg_us_rms vs run
χ² / ndf 8965 / 57
p0 0.8766 ± 0.0008412
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7

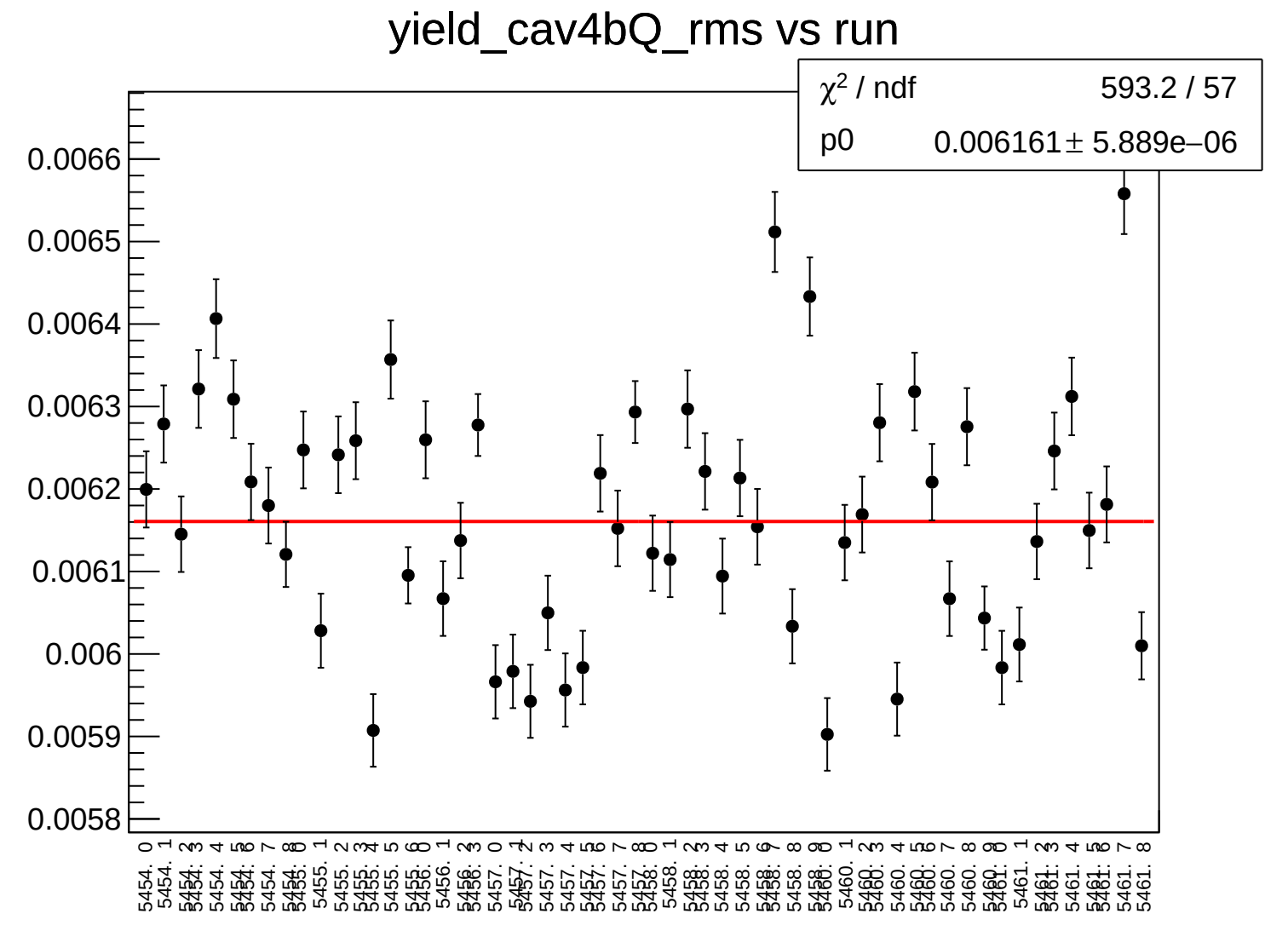

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.347e+05 / 57
p0 152 ± 0.001199
153
152.5
152
151.5
151
150.5
pull
Entries 58
Mean −680
Std Dev 708.5
100
50
0
−50
−100

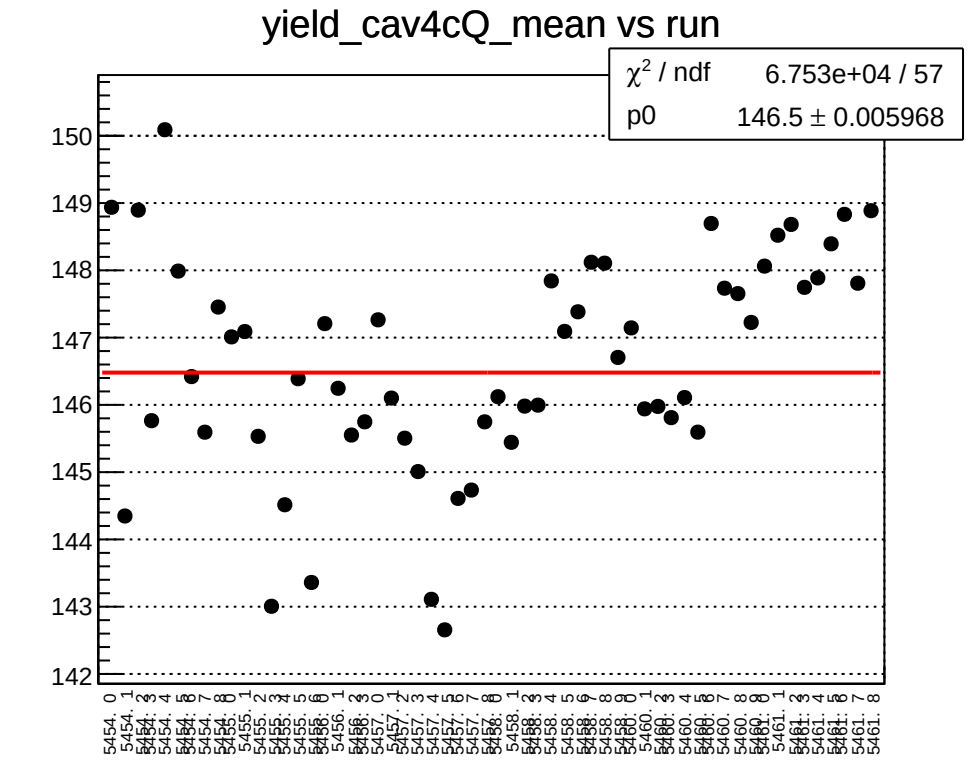

pull1D
Entries 58
Mean −2.678
Std Dev 5.882
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

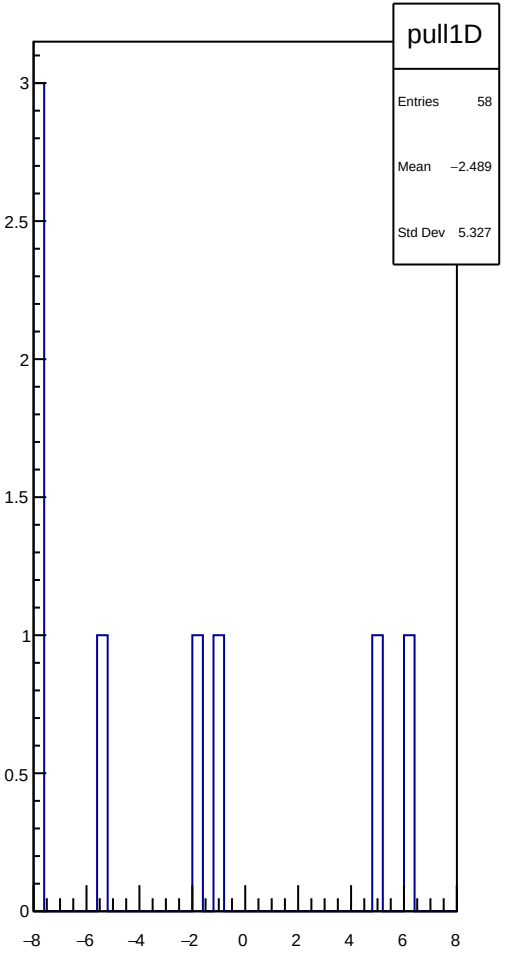

yield_bcm_dg_ds_rms vs run
χ² / ndf 8828 / 57
p0 0.8834 ± 0.0008477
1.15
1.1
1.05
1
0.95
0.9
0.85
0.8
0.75
0.7

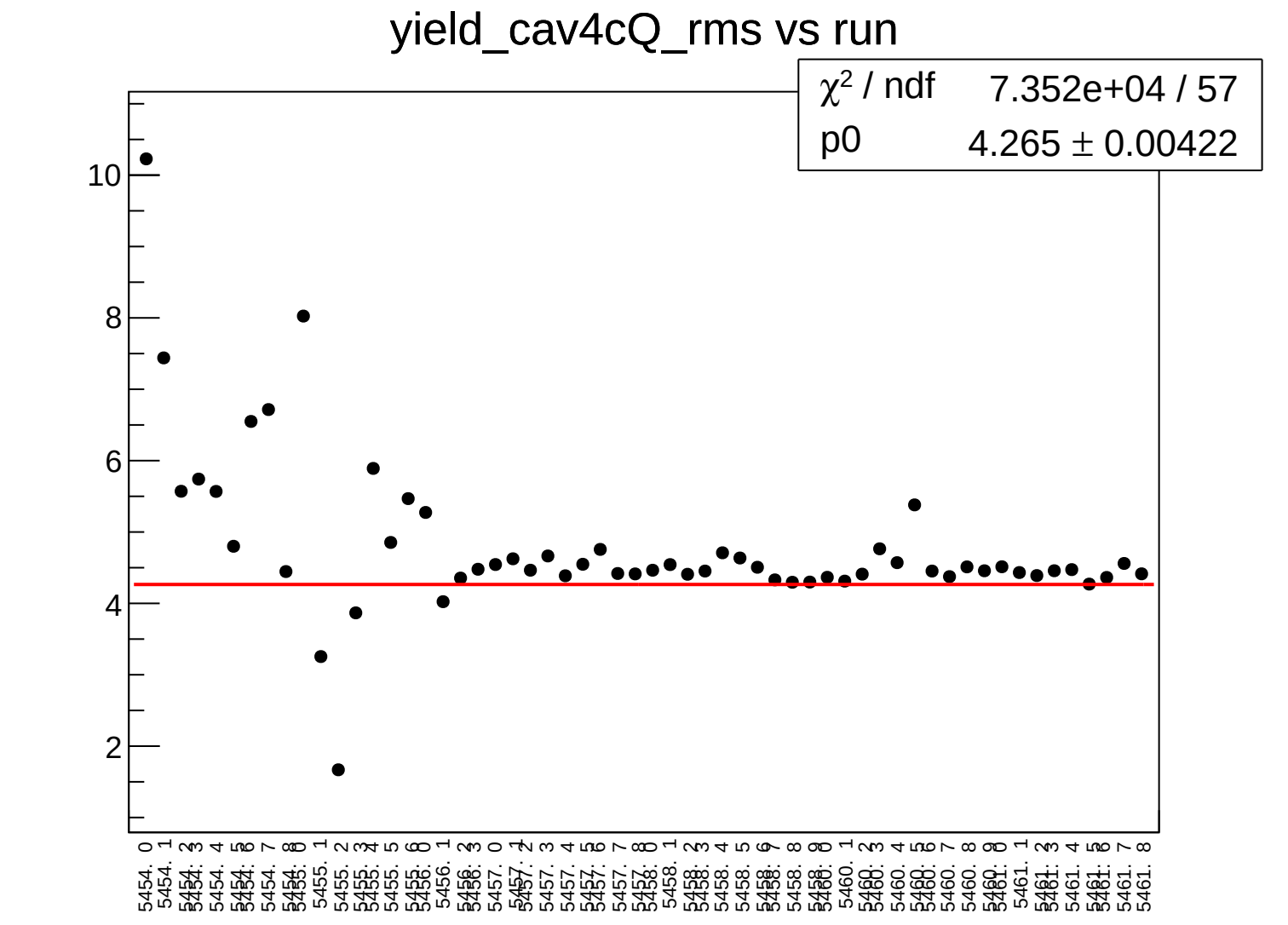

yield_cav4bQ_mean vs run
χ² / ndf 2.884e+05 / 57
p0 403.1± 8.329e−06
403.11
403.108
403.106
403.104
403.102
403.1
403.098
403.096
403.094
403.092
pull
Entries 58
Mean −30.33
Std Dev 301
150
100
50
0
−50
−100

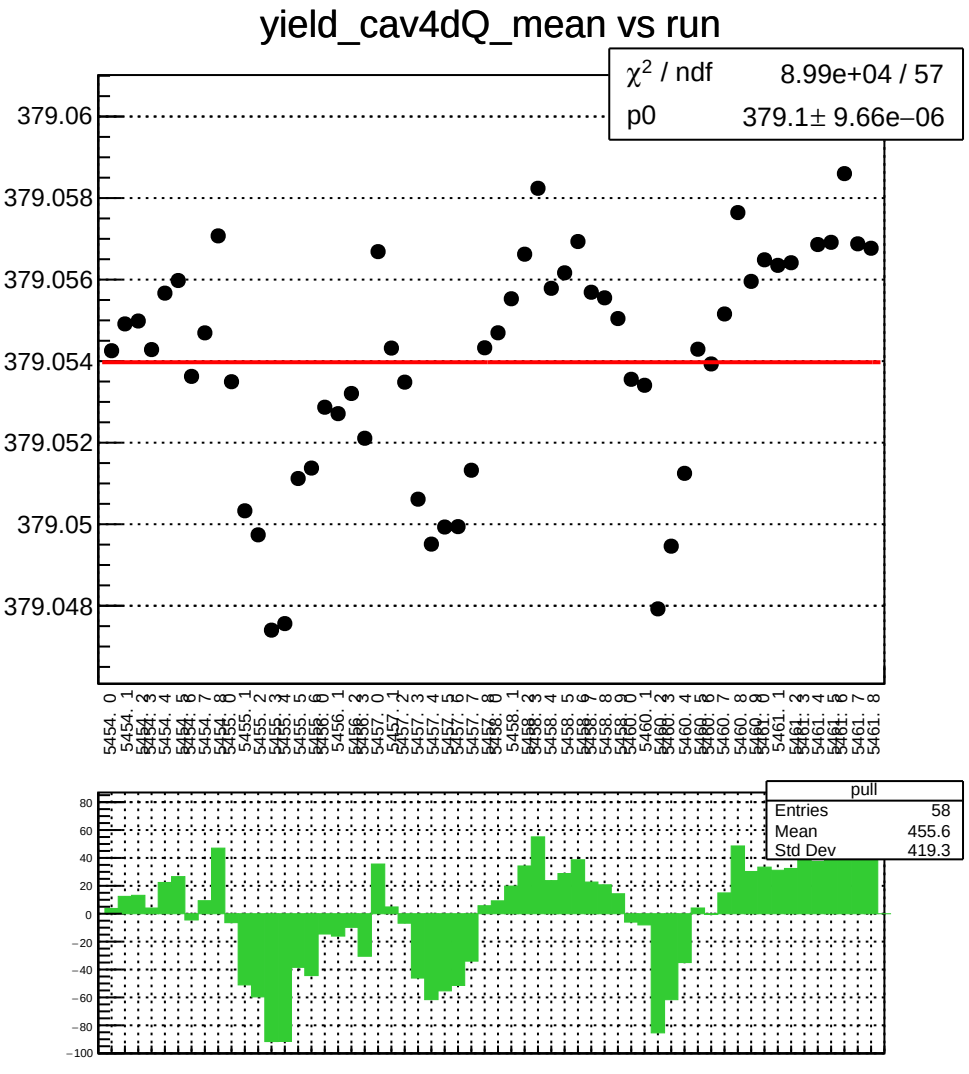

pull1D
Entries 58
Mean −0.9932
Std Dev 4.803
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

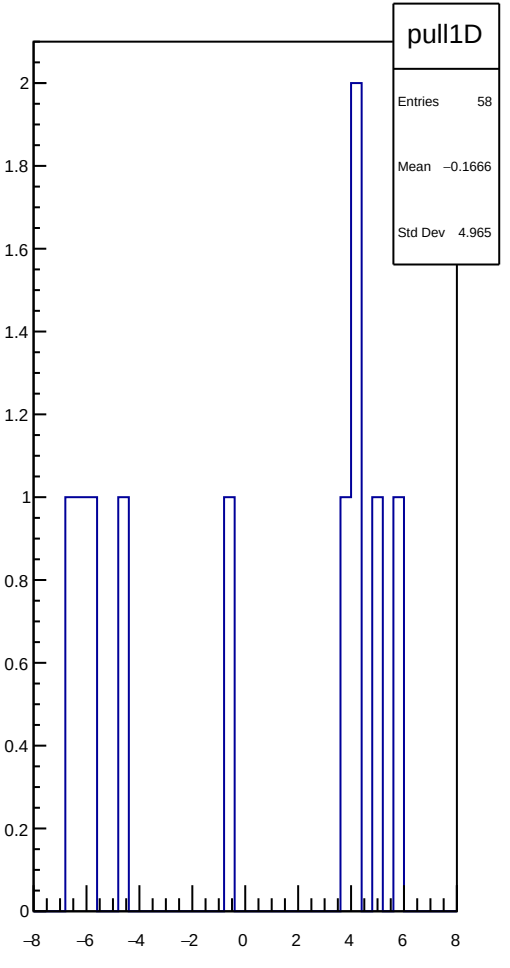

yield_cav4bQ_rms vs run
χ² / ndf 593.2 / 57
p0 0.006161 ± 5.889e−06
0.0066
0.0065
0.0064
0.0063
0.0062
0.0061
0.006
0.0059
0.0058

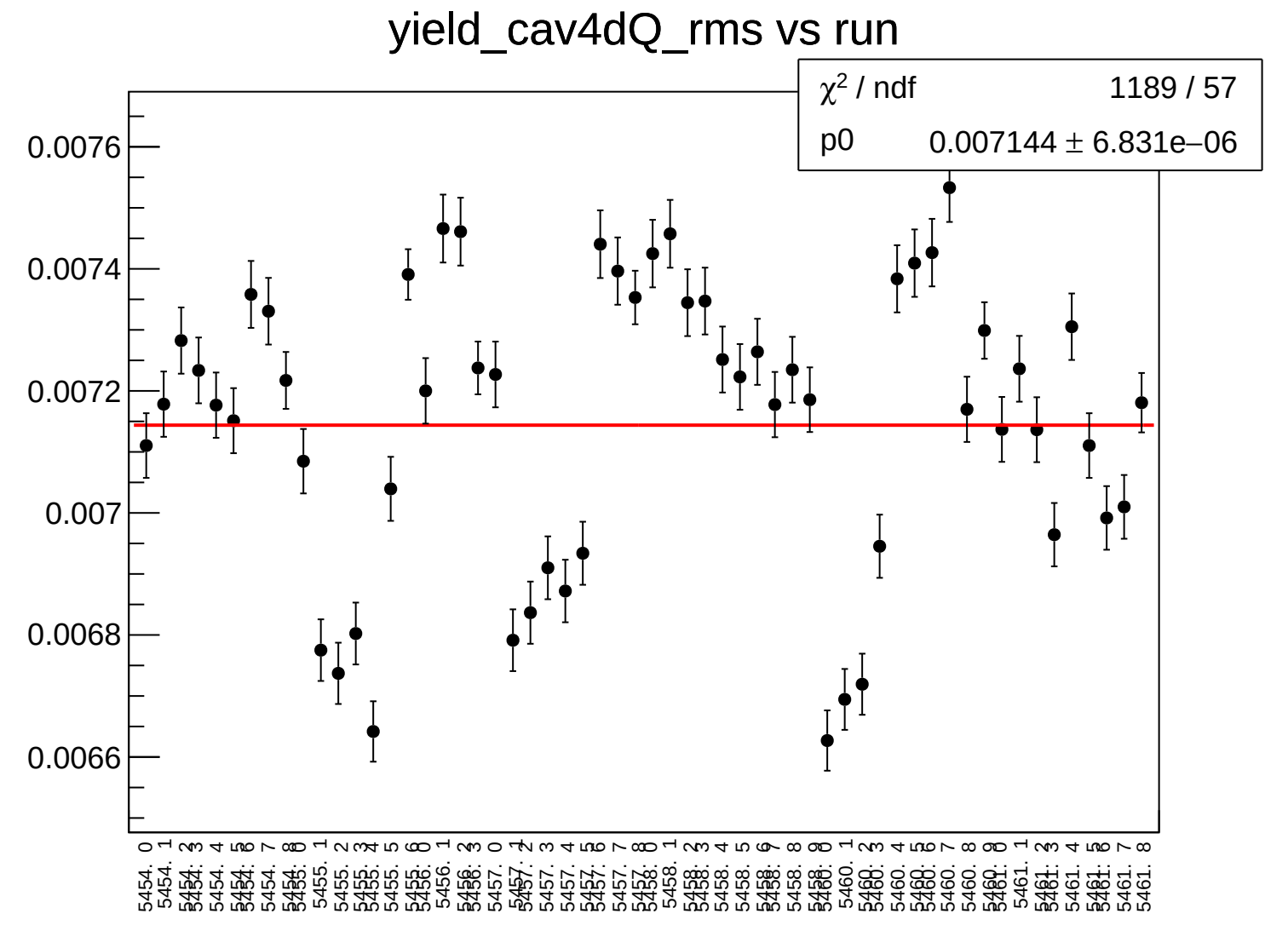

yield_cav4cQ_mean vs run
χ² / ndf 6.753e+04 / 57
p0 146.5 ± 0.005968
150
149
148
147
146
145
144
143
142
pull
Entries 58
Mean 151.8
Std Dev 111.5
60
40
20
0
−20
−40
−60
−80

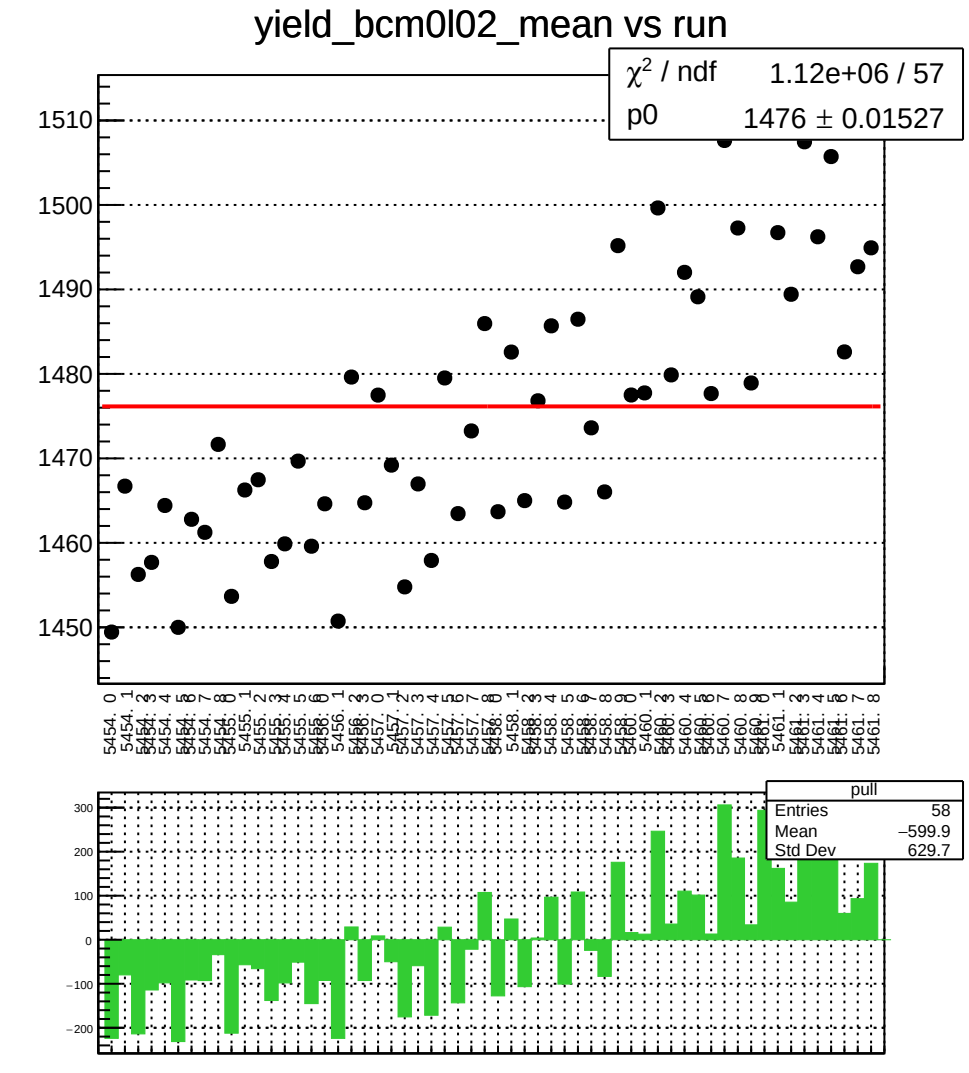

pull1D
Entries 58
Mean −2.489
Std Dev 5.327
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

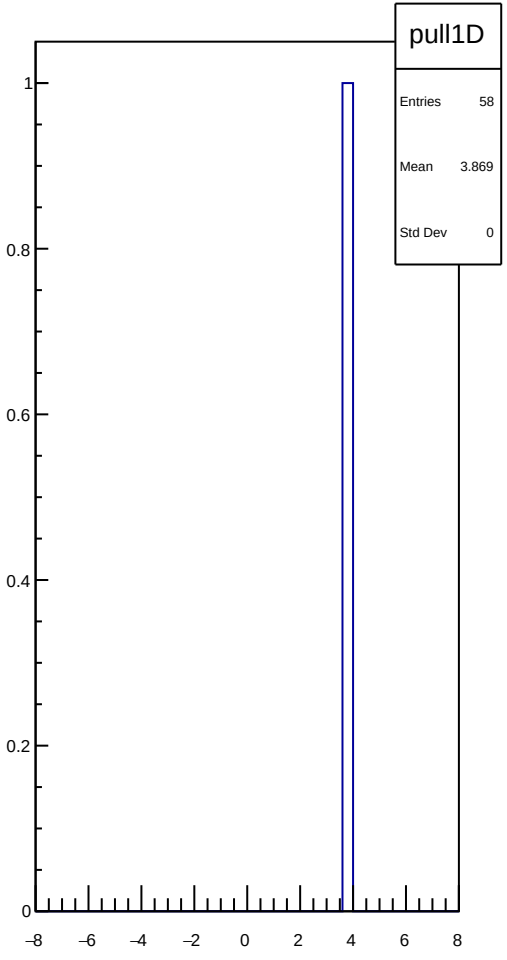

yield_cav4cQ_rms vs run
χ² / ndf 7.352e+04 / 57
p0 4.265 ± 0.00422
10
8
6
4
2

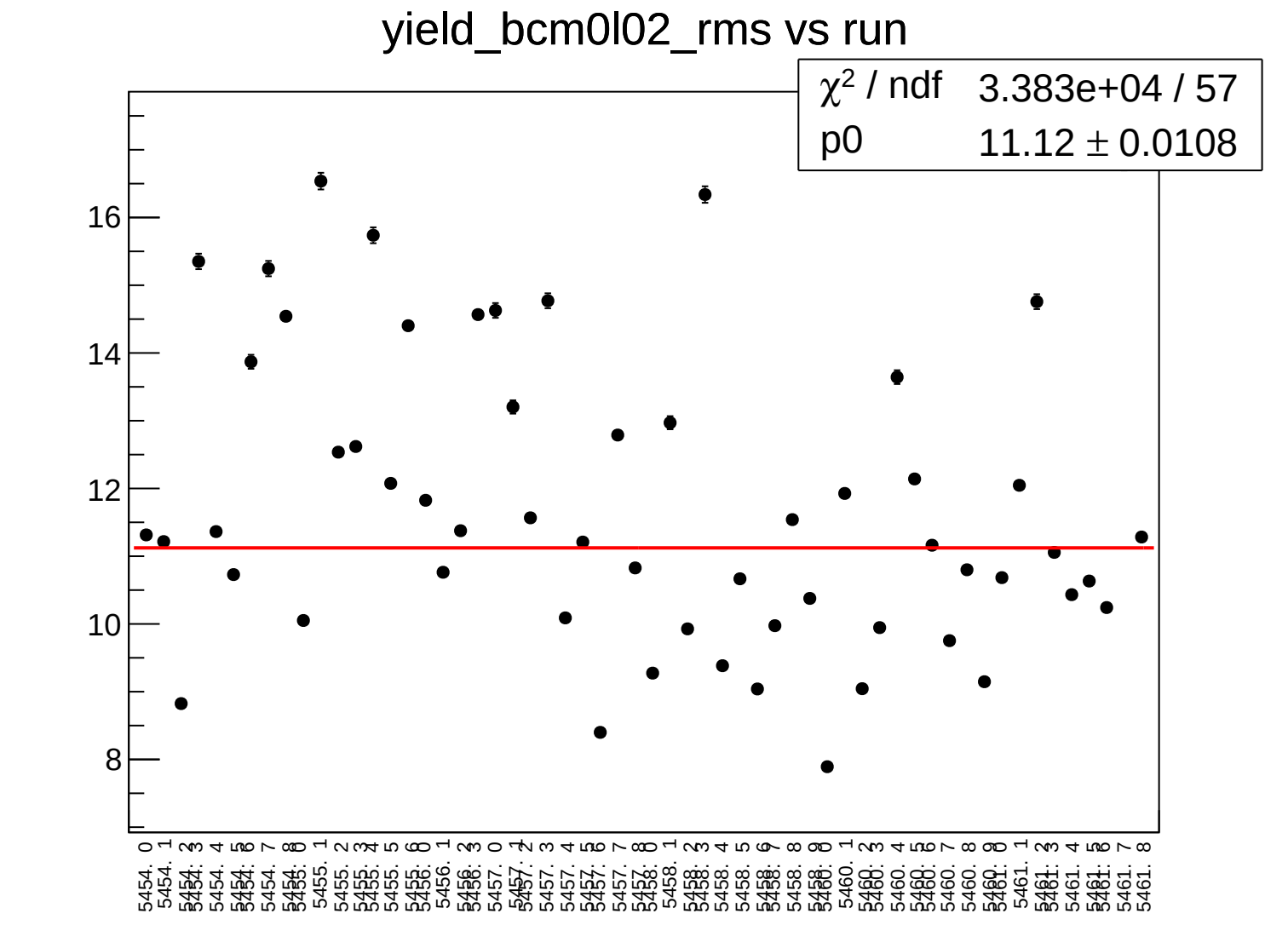

yield_cav4dQ_mean vs run
χ² / ndf 8.99e+04 / 57
p0 379.1± 9.66e−06
379.06
379.058
379.056
379.054
379.052
379.05
379.048
pull
Entries 58
Mean 455.6
Std Dev 419.3
80
60
40
20
0
−20
−40
−60
−80
−100

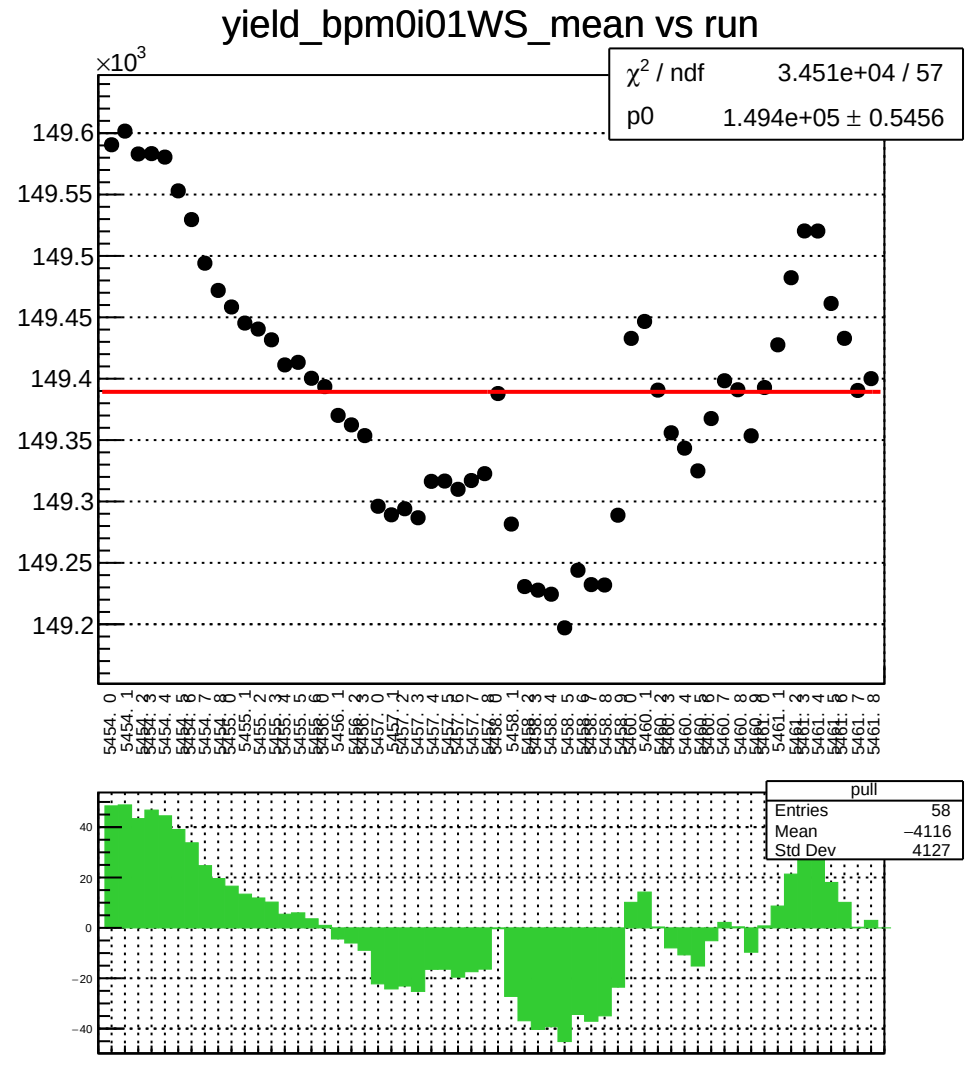

pull1D
Entries 58
Mean −0.1666
Std Dev 4.965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

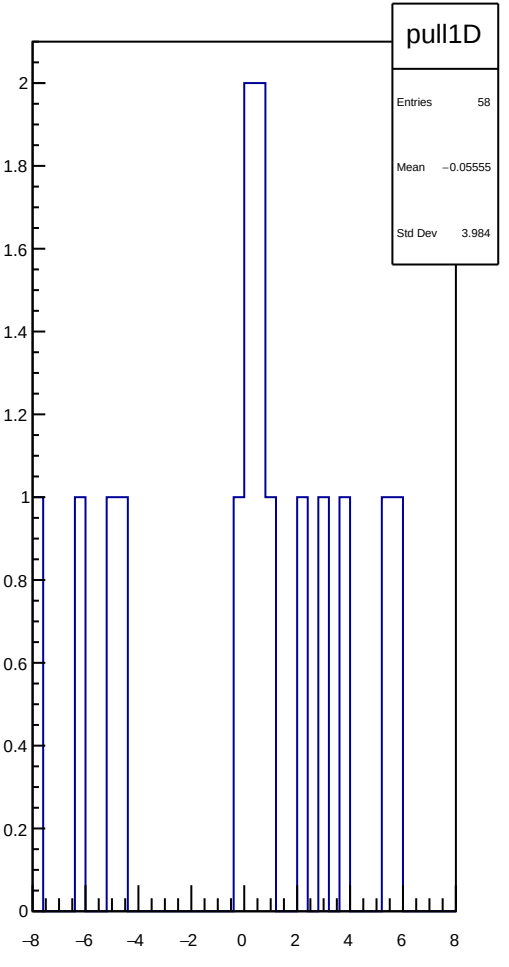

yield_cav4dQ_rms vs run
χ² / ndf 1189 / 57
p0 0.007144 ± 6.831e−06
0.0076
0.0074
0.0072
0.007
0.0068
0.0066

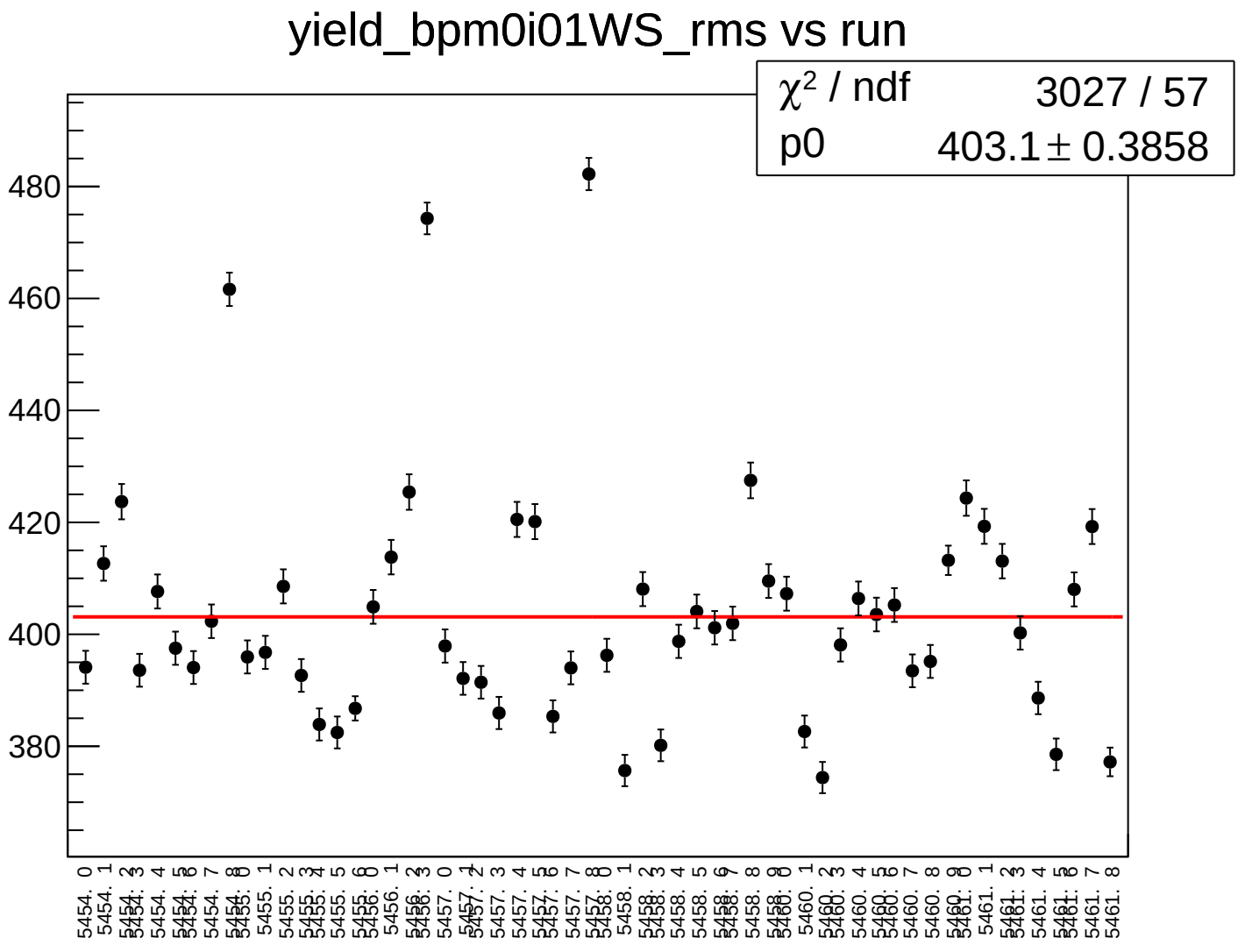

yield_bcm0l02_mean vs run
χ² / ndf 1.12e+06 / 57
p0 1476 ± 0.01527
1510
1500
1490
1480
1470
1460
1450
pull
Entries 58
Mean −599.9
Std Dev 629.7
300
200
100
0
−100
−200

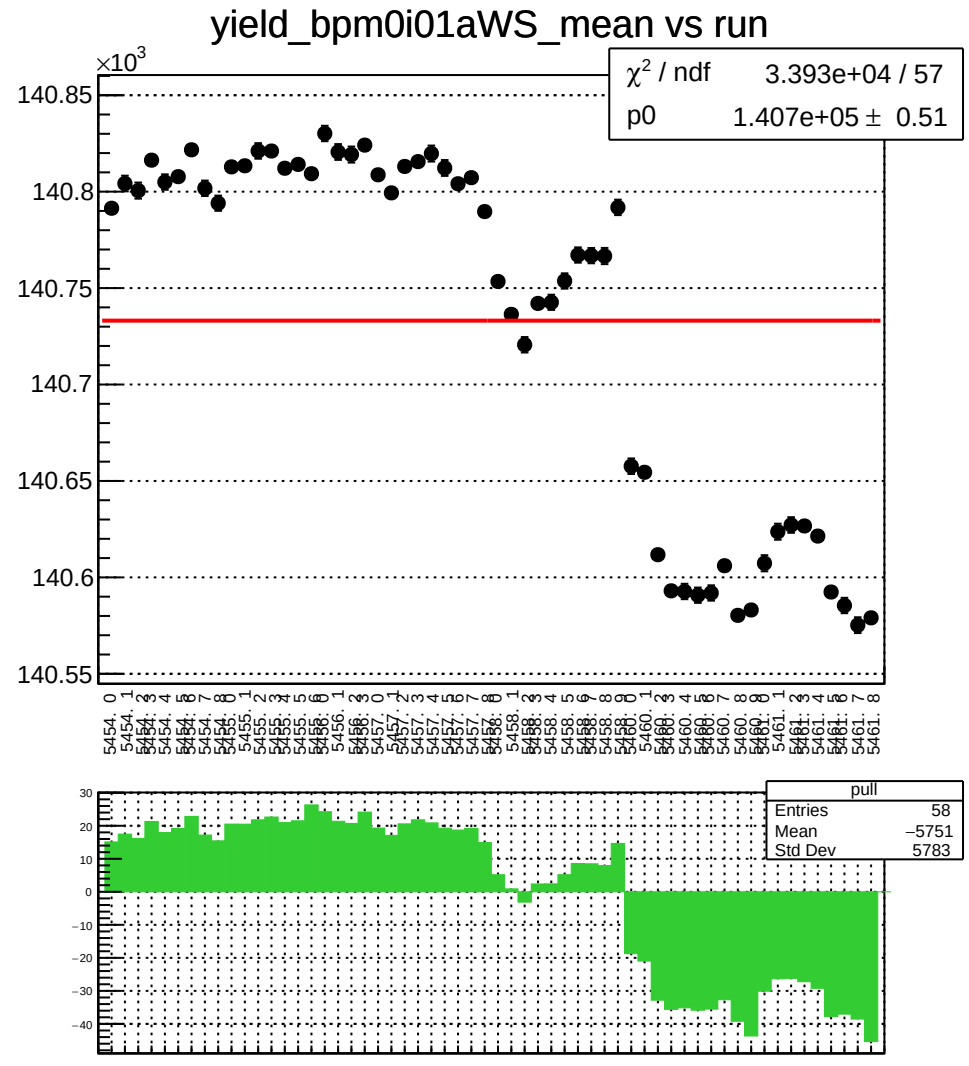

pull1D
Entries 58
Mean 3.869
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

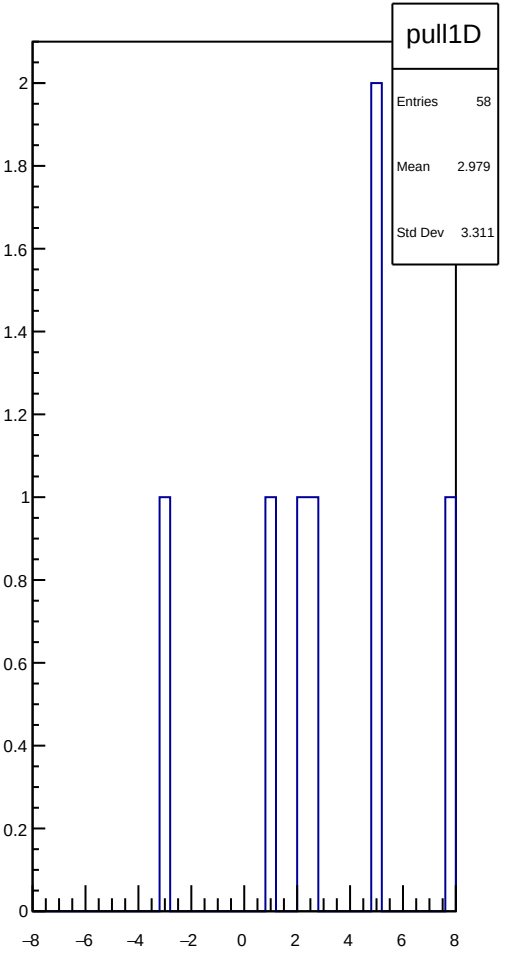

yield_bcm0l02_rms vs run
χ² / ndf 3.383e+04 / 57
p0 11.12 ± 0.0108
16
14
12
10
8

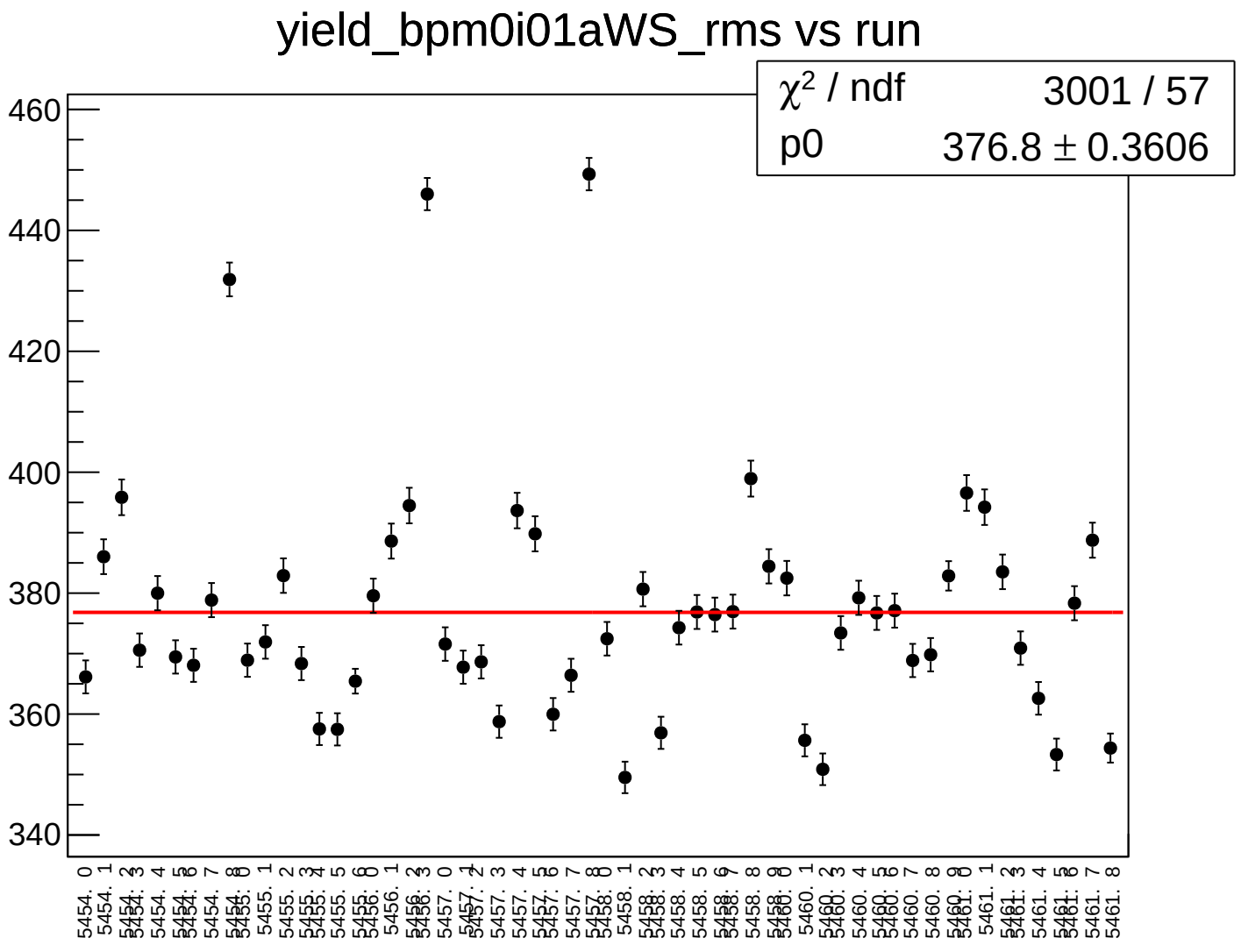

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 3.451e+04 / 57
p0 1.494e+05 ± 0.5456
149.6
149.55
149.5
149.45
149.4
149.35
149.3
149.25
149.2
pull
Entries 58
Mean −4116
Std Dev 4127
40
20
0
−20
−40

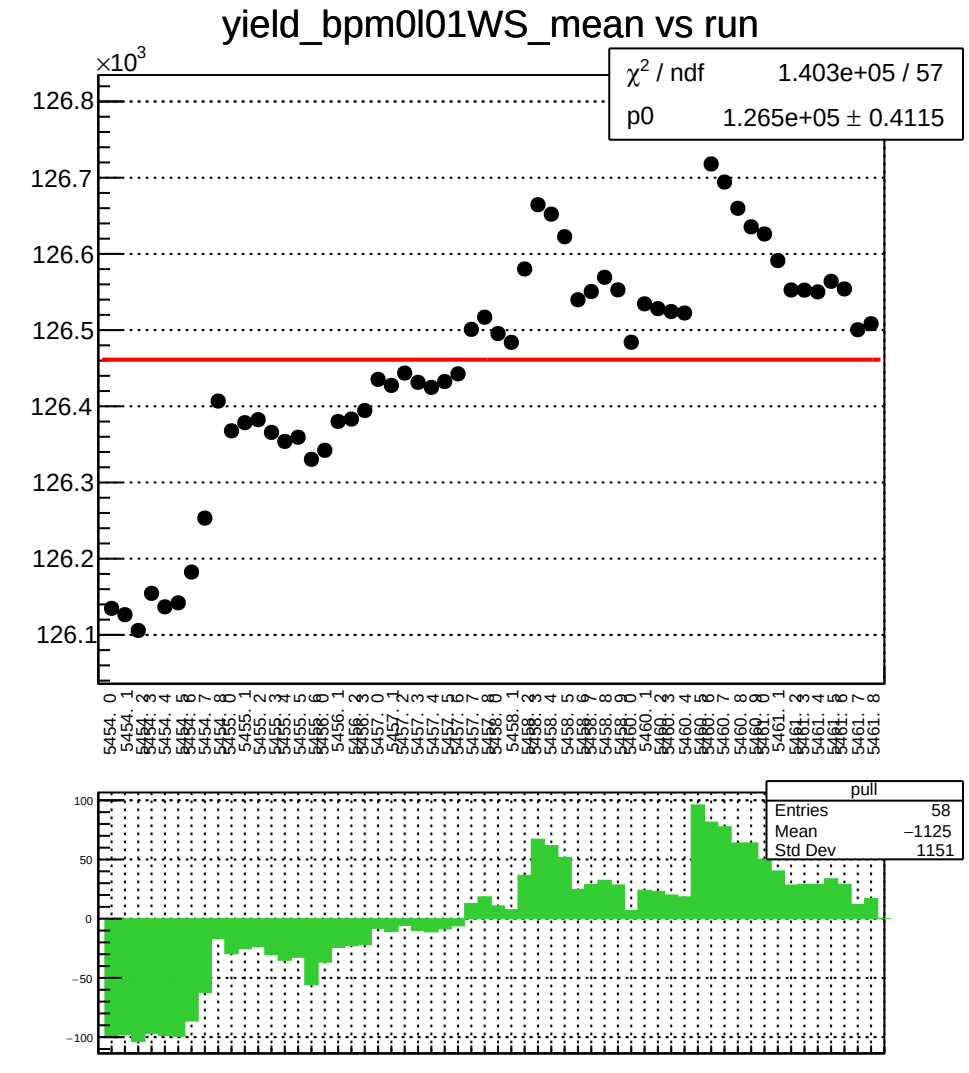

pull1D
Entries 58
Mean −0.05555
Std Dev 3.984
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

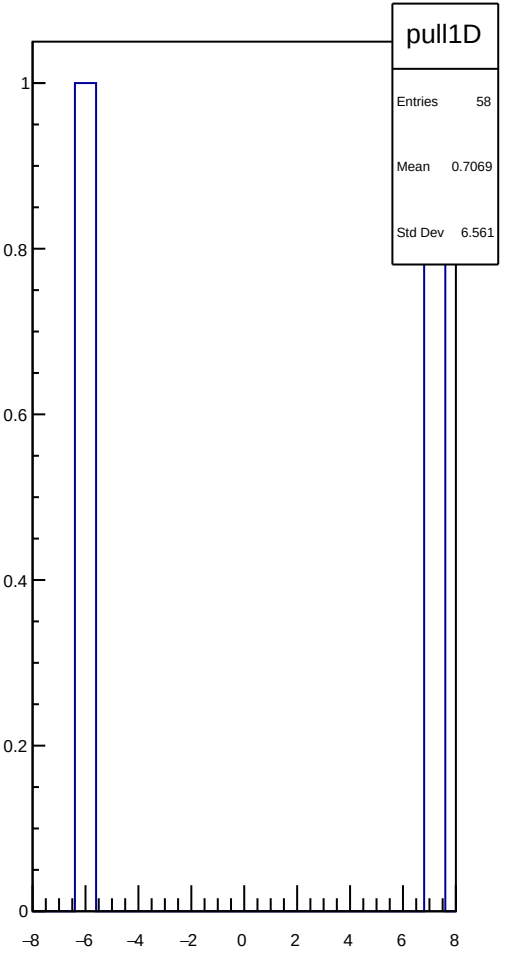

yield_bpm0i01WS_rms vs run
χ² / ndf 3027 / 57
p0 403.1 ± 0.3858
480
460
440
420
400
380
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

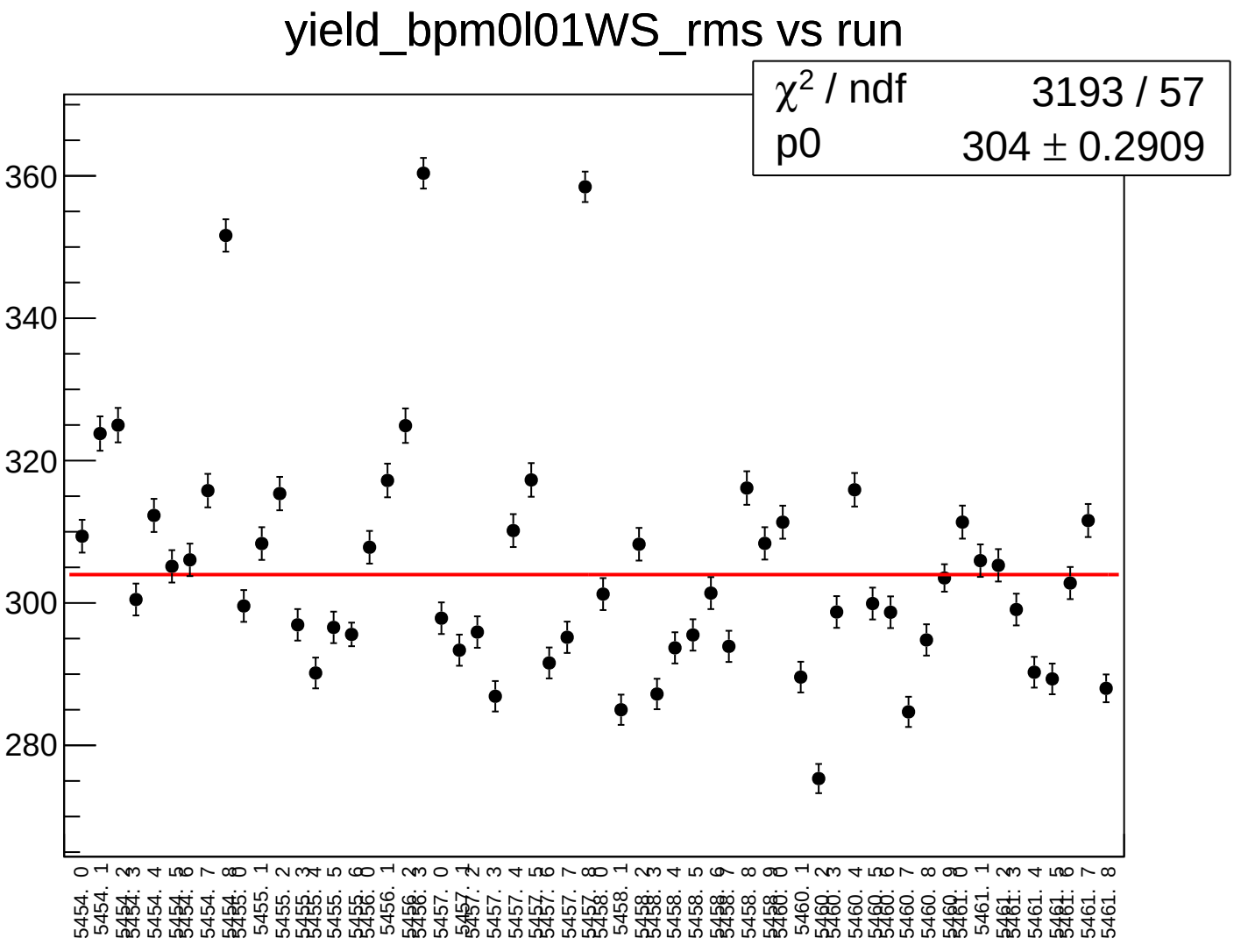

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 3.393e+04 / 57
p0 1.407e+05 ± 0.51
140.85
140.8
140.75
140.7
140.65
140.6
140.55
pull
Entries 58
Mean −5751
Std Dev 5783
30
20
10
0
−10
−20
−30
−40

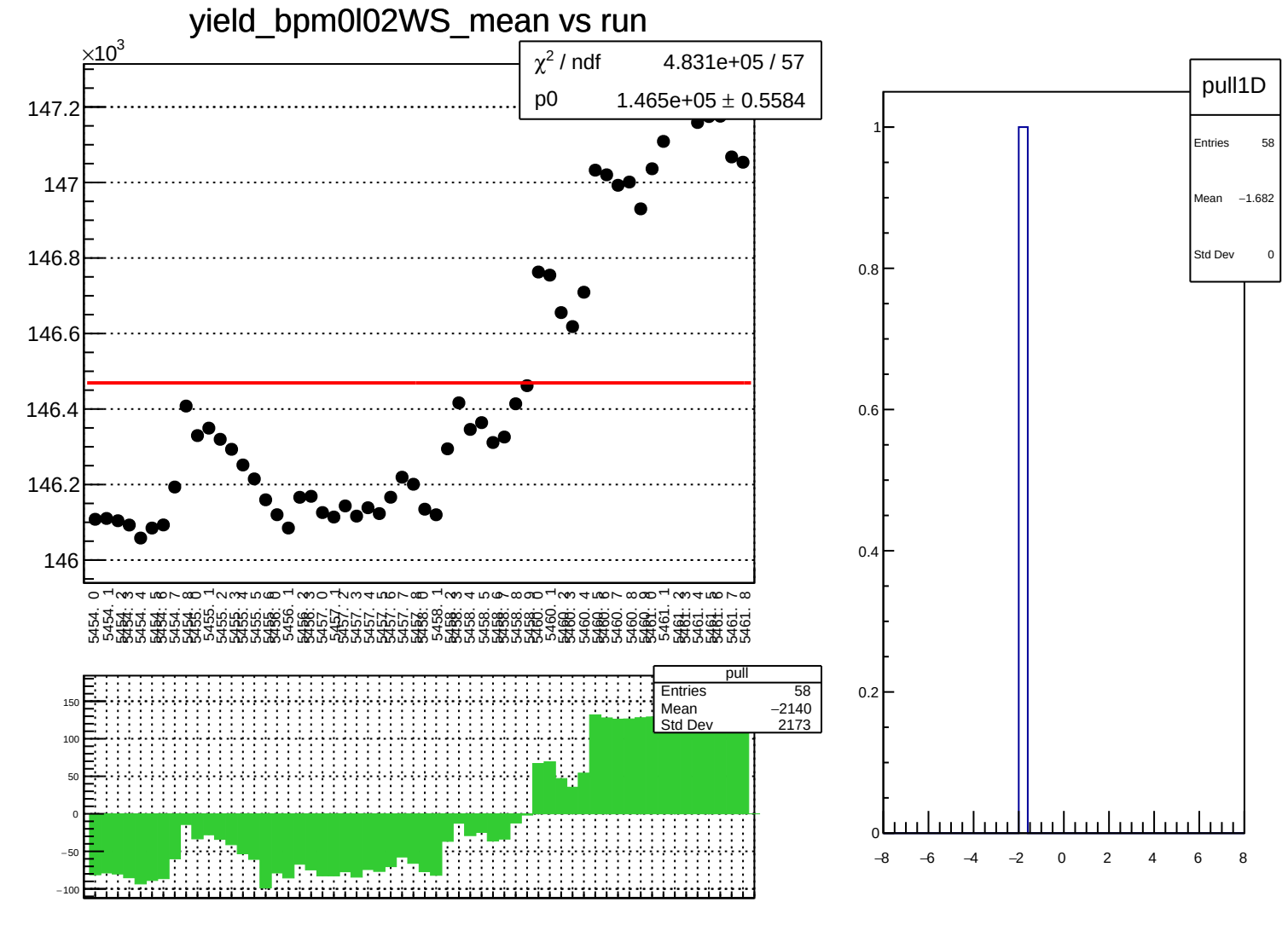

pull1D
Entries 58
Mean 2.979
Std Dev 3.311
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

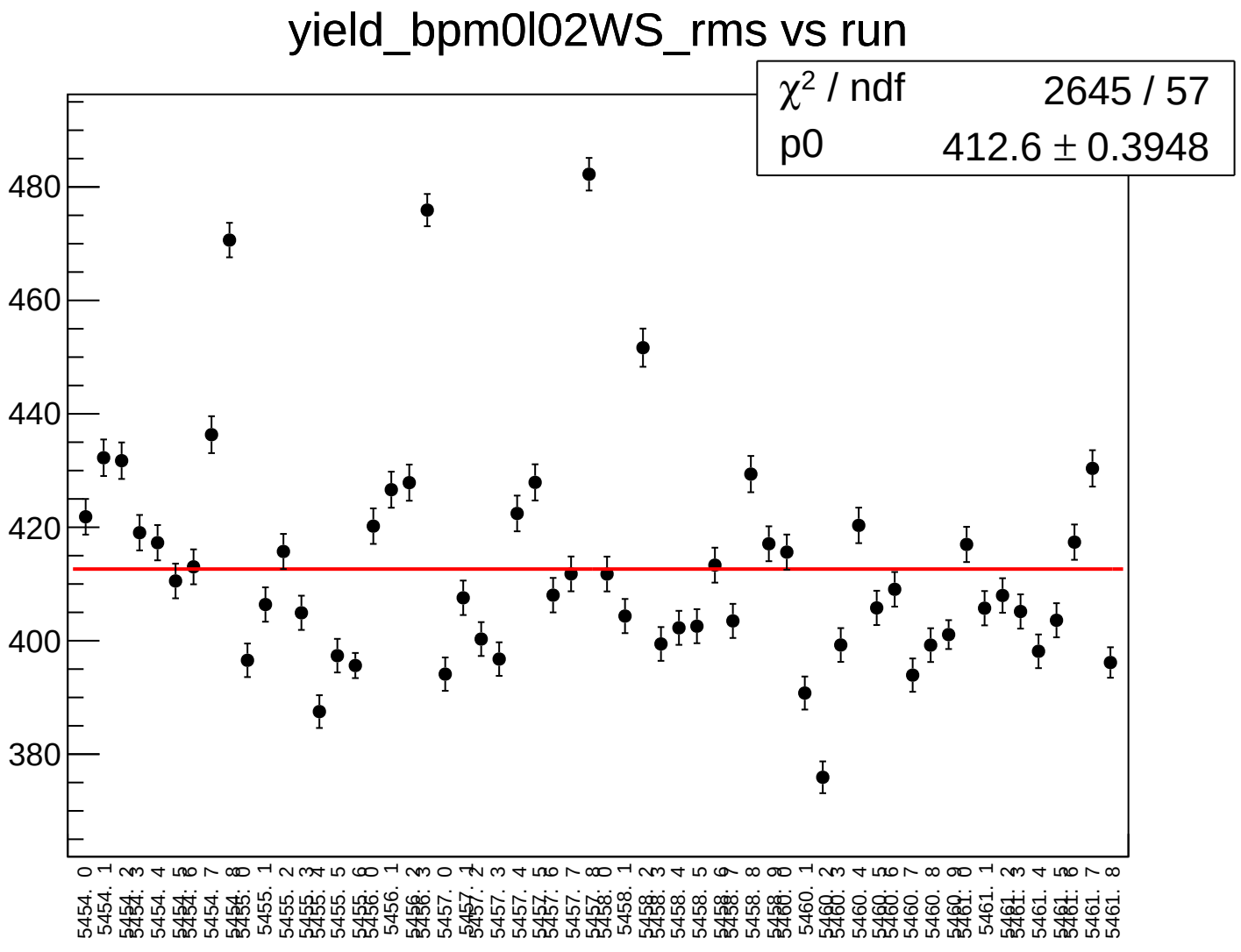

yield_bpm0i01aWS_rms vs run
χ² / ndf 3001 / 57
p0 376.8 ± 0.3606
460
440
420
400
380
360
340

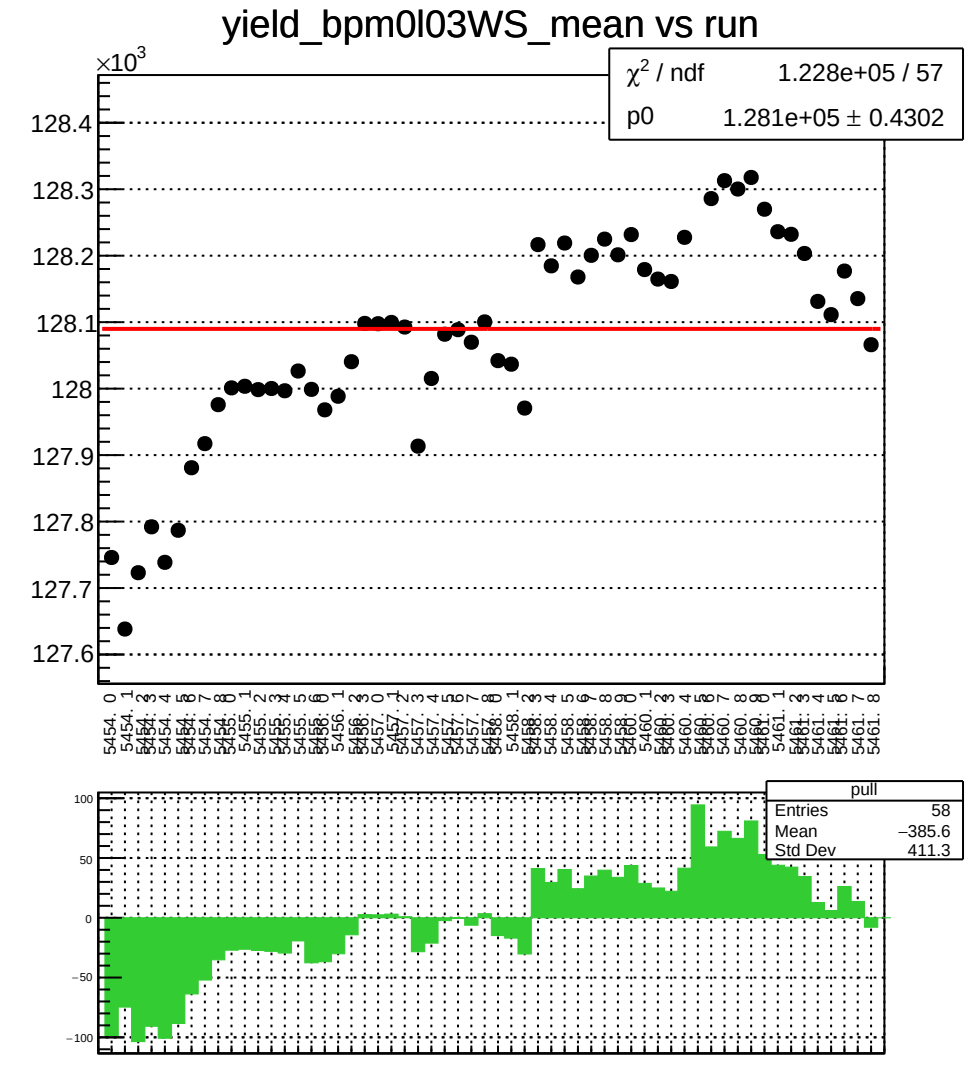

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.403e+05 / 57
p0 1.265e+05 ± 0.4115
126.8
126.7
126.6
126.5
126.4
126.3
126.2
126.1
pull
Entries 58
Mean −1125
Std Dev 1151
100
50
0
−50
−100

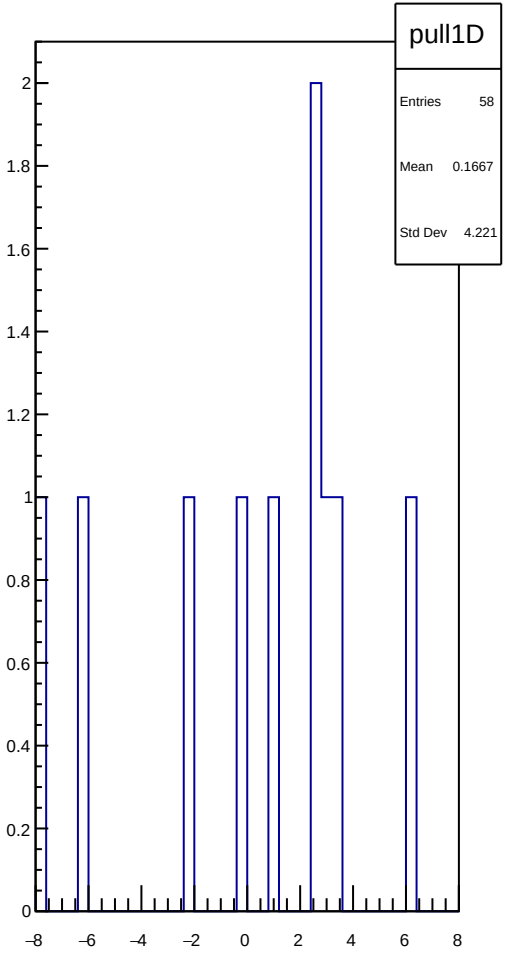

pull1D
Entries 58
Mean 0.7069
Std Dev 6.561
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

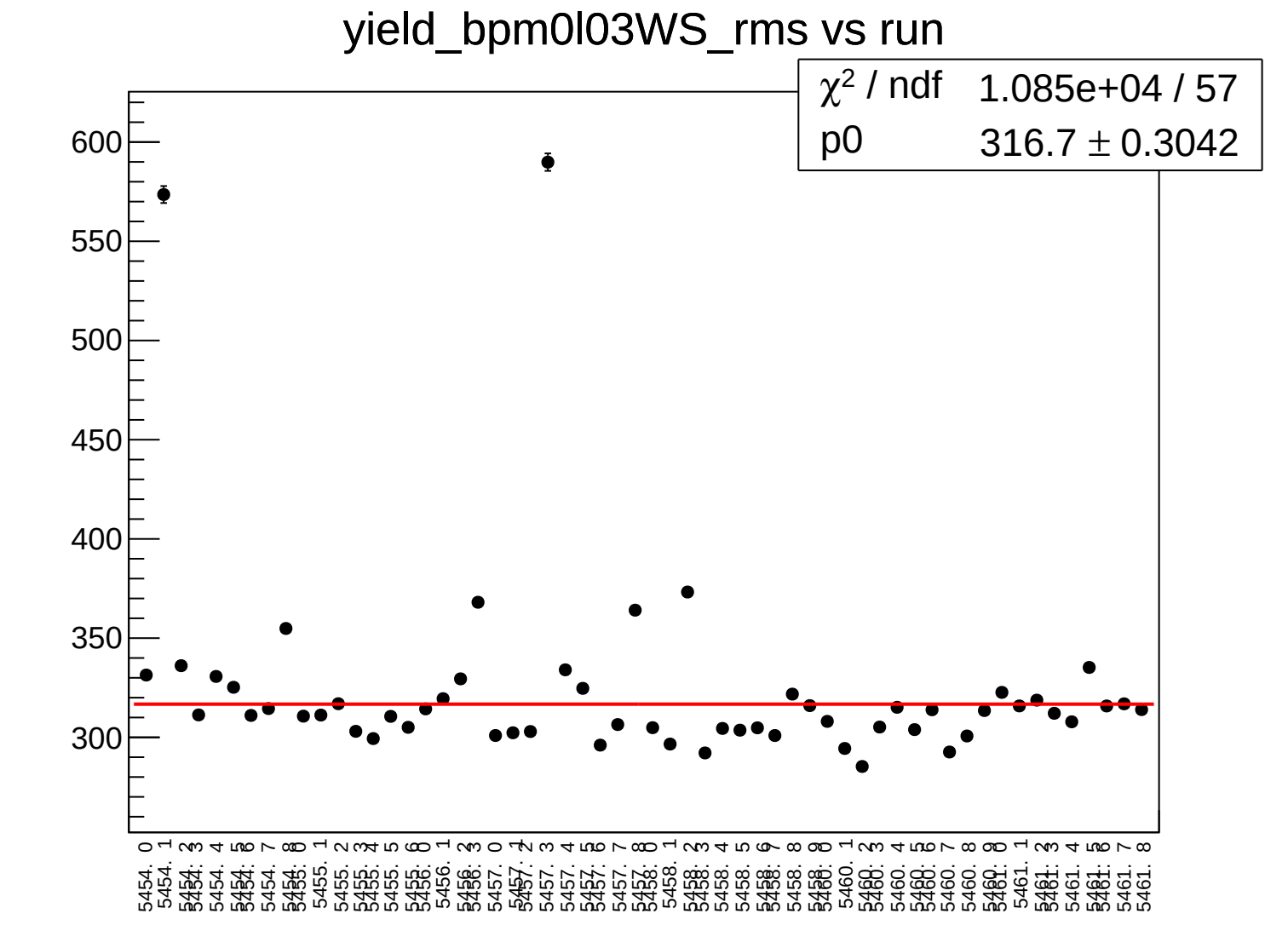

yield_bpm0l01WS_rms vs run
χ² / ndf 3193 / 57
p0 304 ± 0.2909
360
340
320
300
280

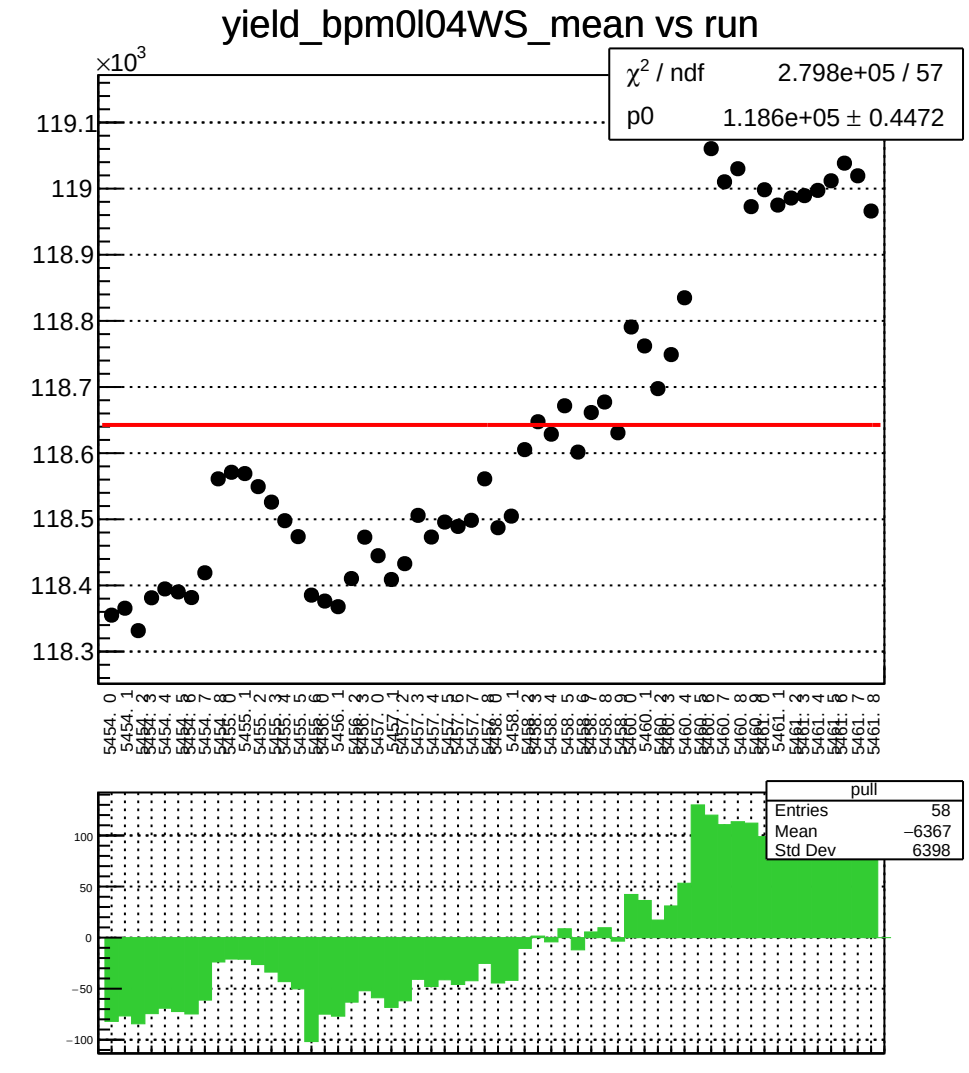

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 4.831e+05 / 57
p0 1.465e+05 ± 0.5584
147.2
147
146.8
146.6
146.4
146.2
146
pull
Entries 58
Mean −2140
Std Dev 2173
150
100
50
0
−50
−100
pull1D
Entries 58
Mean −1.682
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

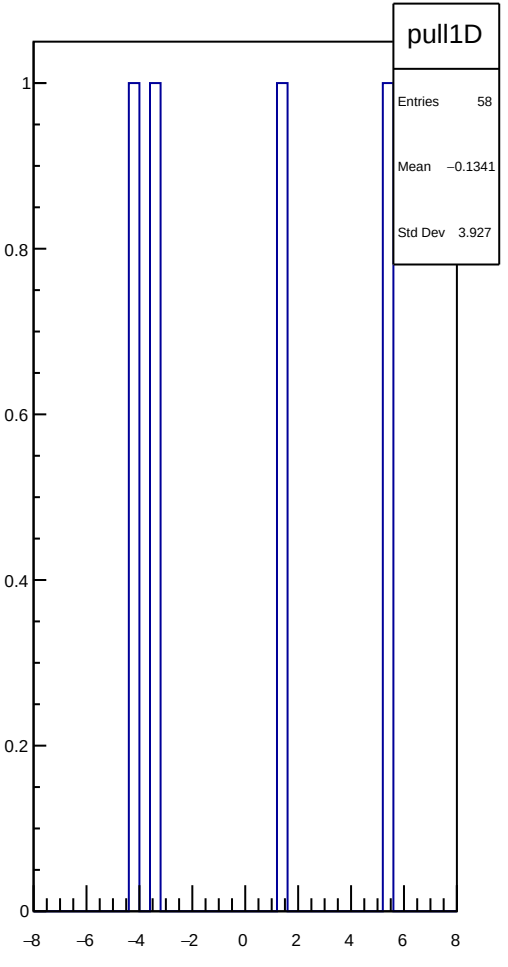

yield_bpm0l02WS_rms vs run
χ² / ndf 2645 / 57
p0 412.6 ± 0.3948
480
460
440
420
400
380

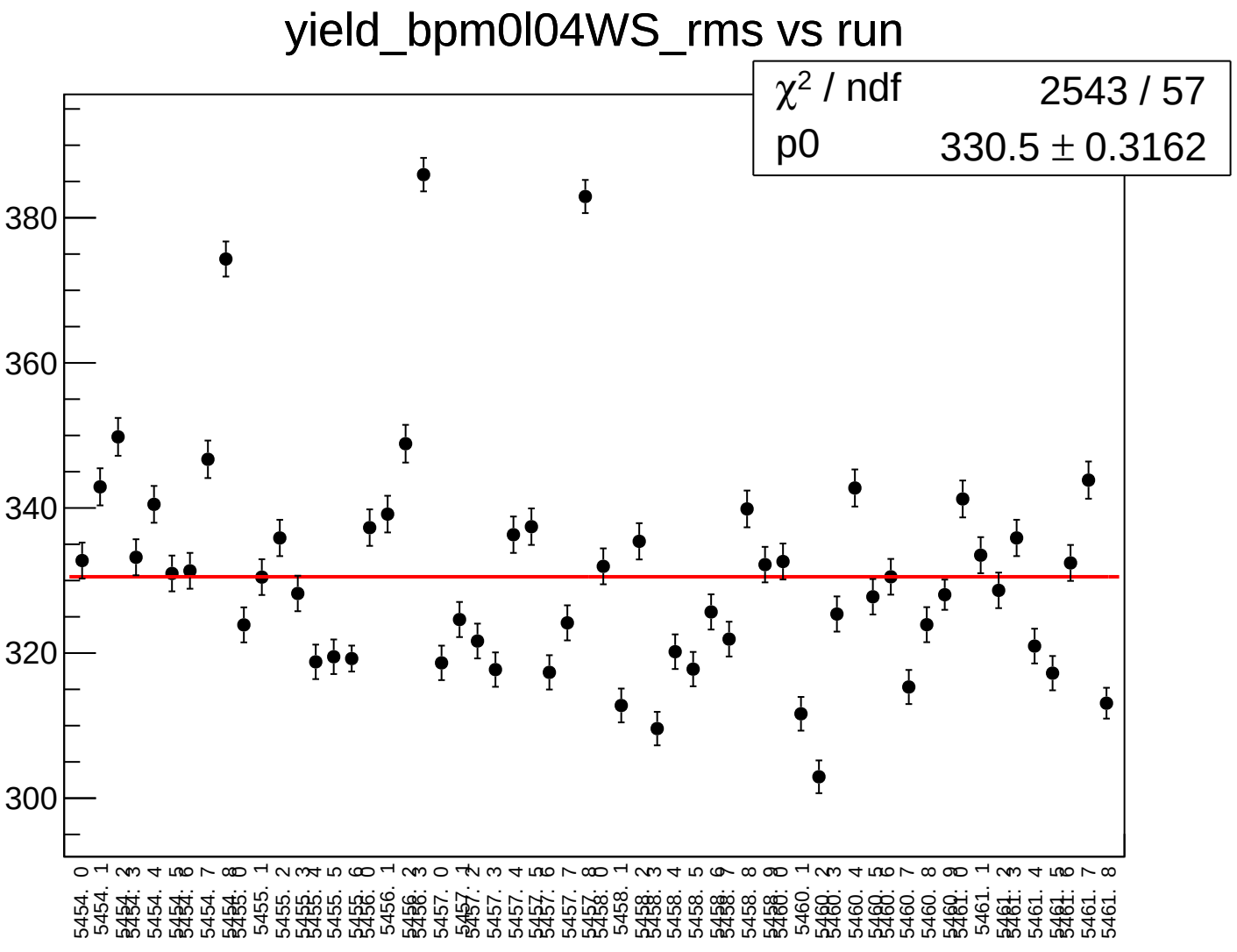

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.228e+05 / 57
p0 1.281e+05 ± 0.4302
128.4
128.3
128.2
128.1
128
127.9
127.8
127.7
127.6
pull
Entries 58
Mean −385.6
Std Dev 411.3
100
50
0
−50
−100

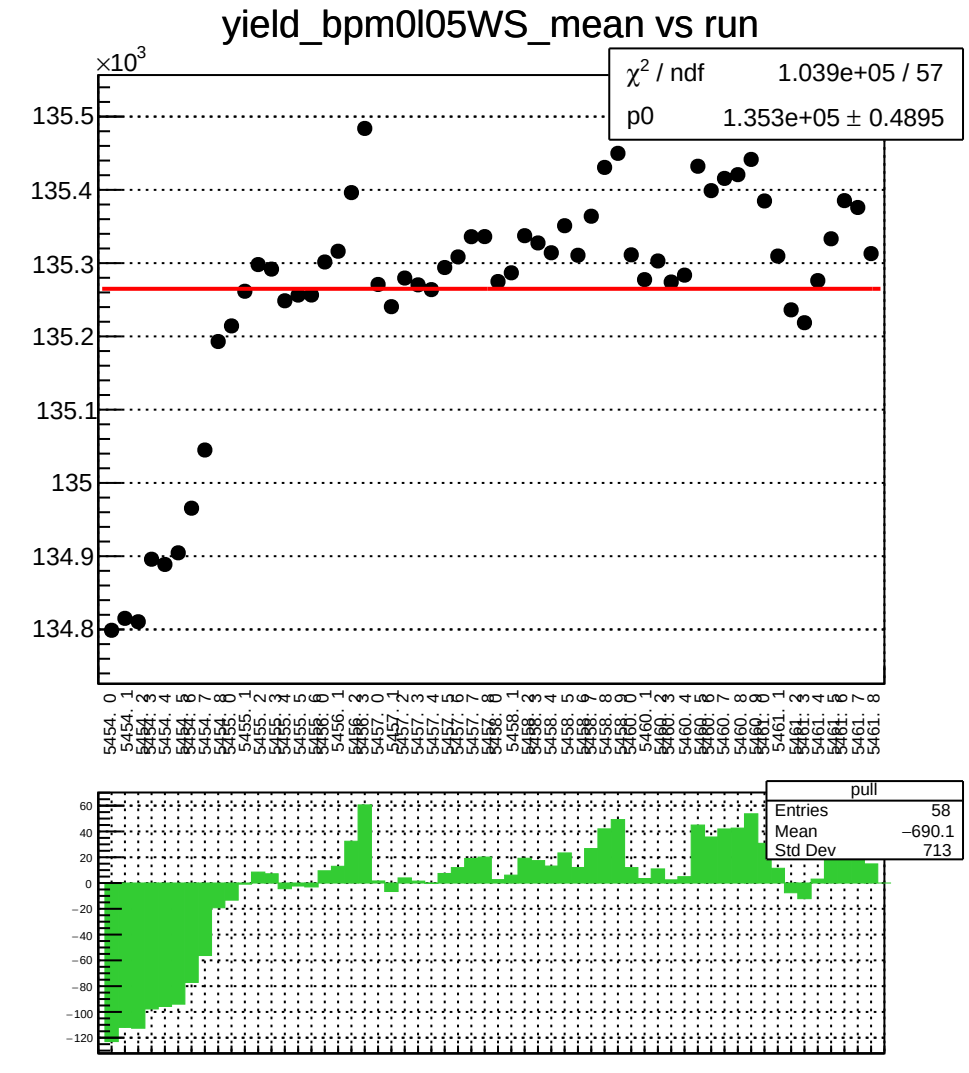

pull1D
Entries 58
Mean 0.1667
Std Dev 4.221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

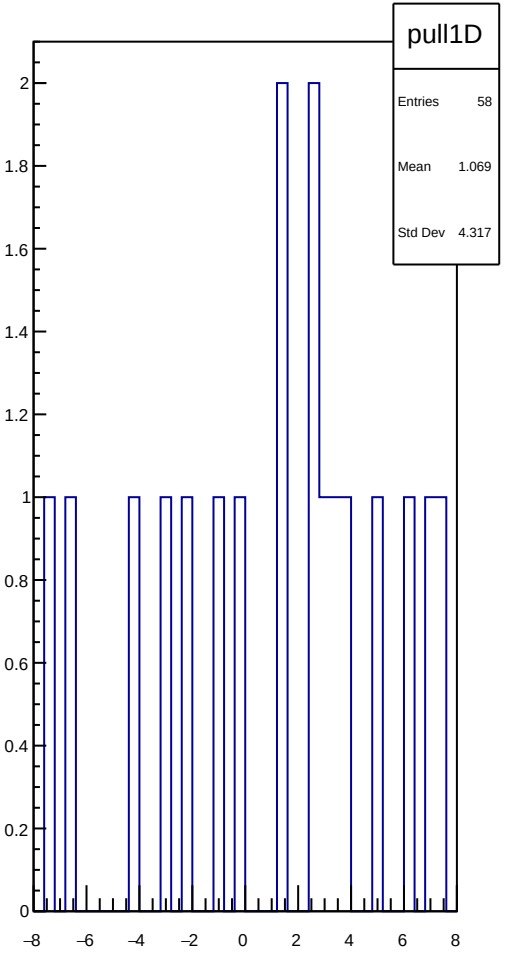

yield_bpm0l03WS_rms vs run
χ² / ndf 1.085e+04 / 57
p0 316.7 ± 0.3042
600
550
500
450
400
350
300

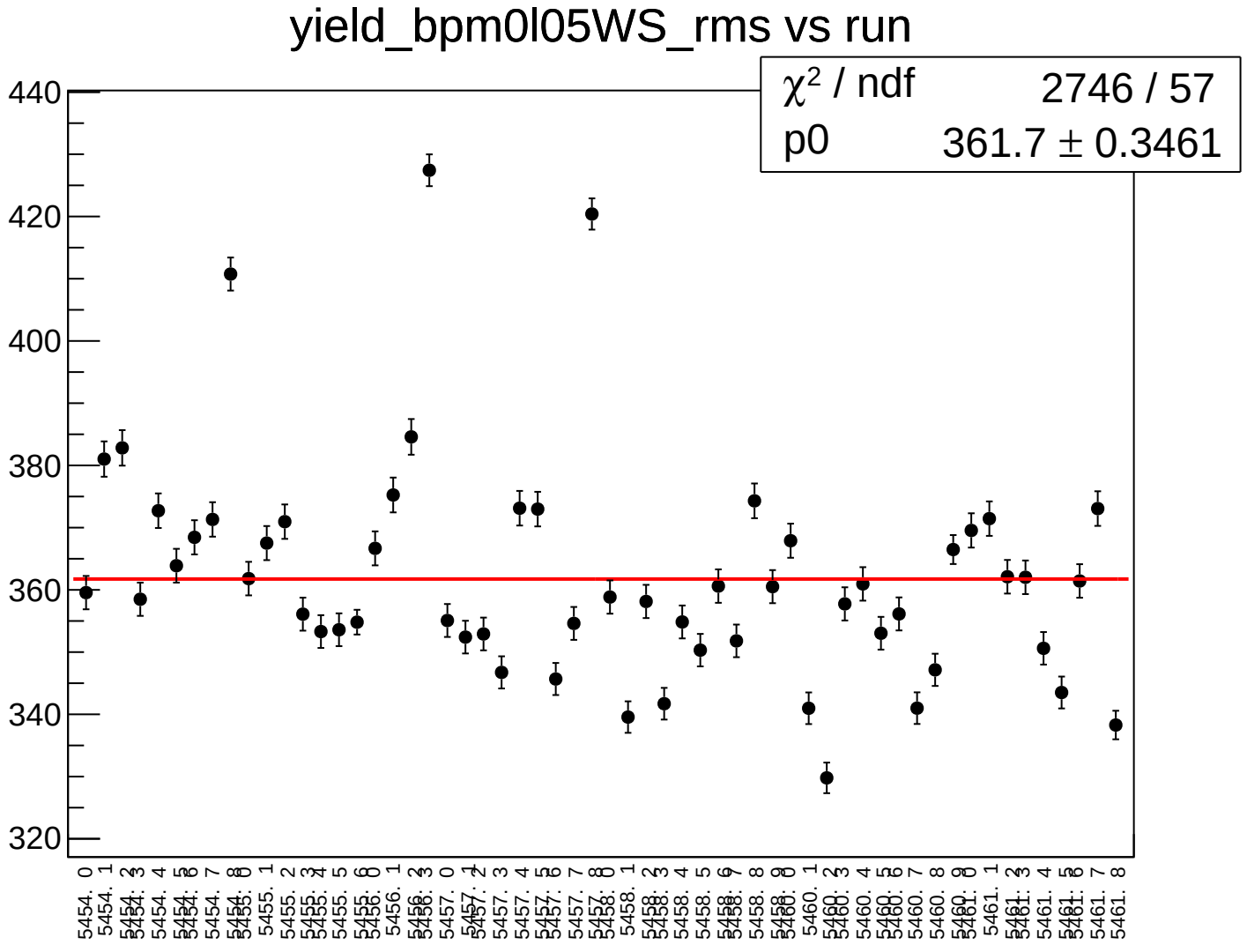

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 2.798e+05 / 57
p0 1.186e+05 ± 0.4472
119.1
119
118.9
118.8
118.7
118.6
118.5
118.4
118.3
pull
Entries 58
Mean −6367
Std Dev 6398
100
50
0
−50
−100

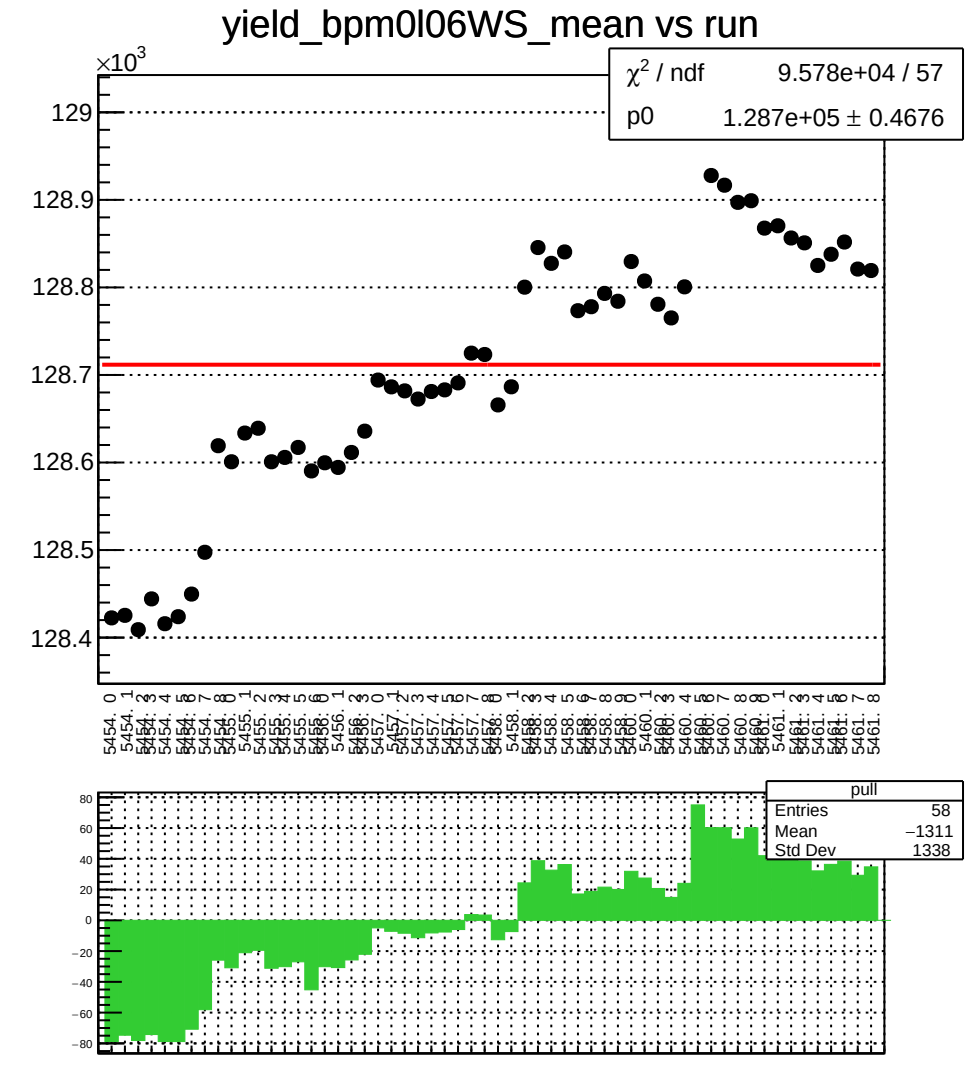

pull1D
Entries 58
Mean −0.1341
Std Dev 3.927
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

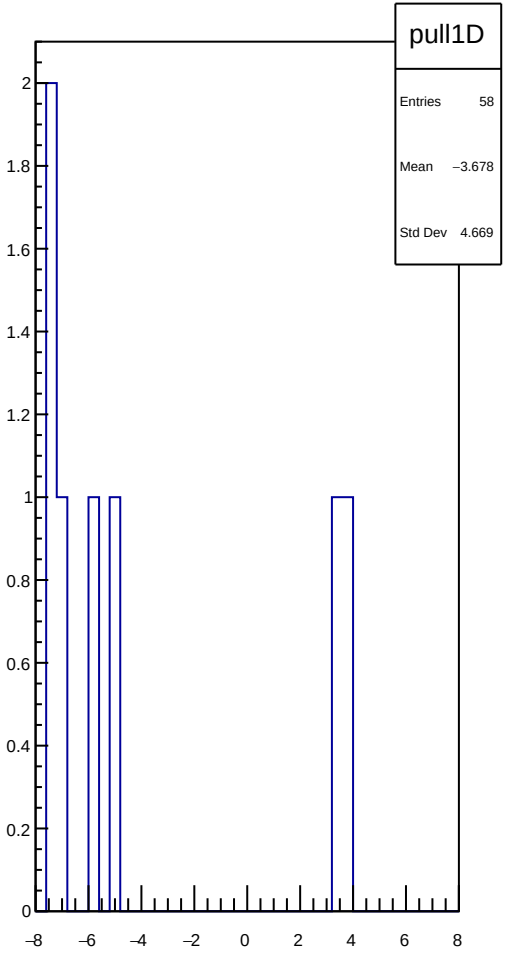

yield_bpm0l04WS_rms vs run
χ² / ndf 2543 / 57
p0 330.5 ± 0.3162
380
360
340
320
300

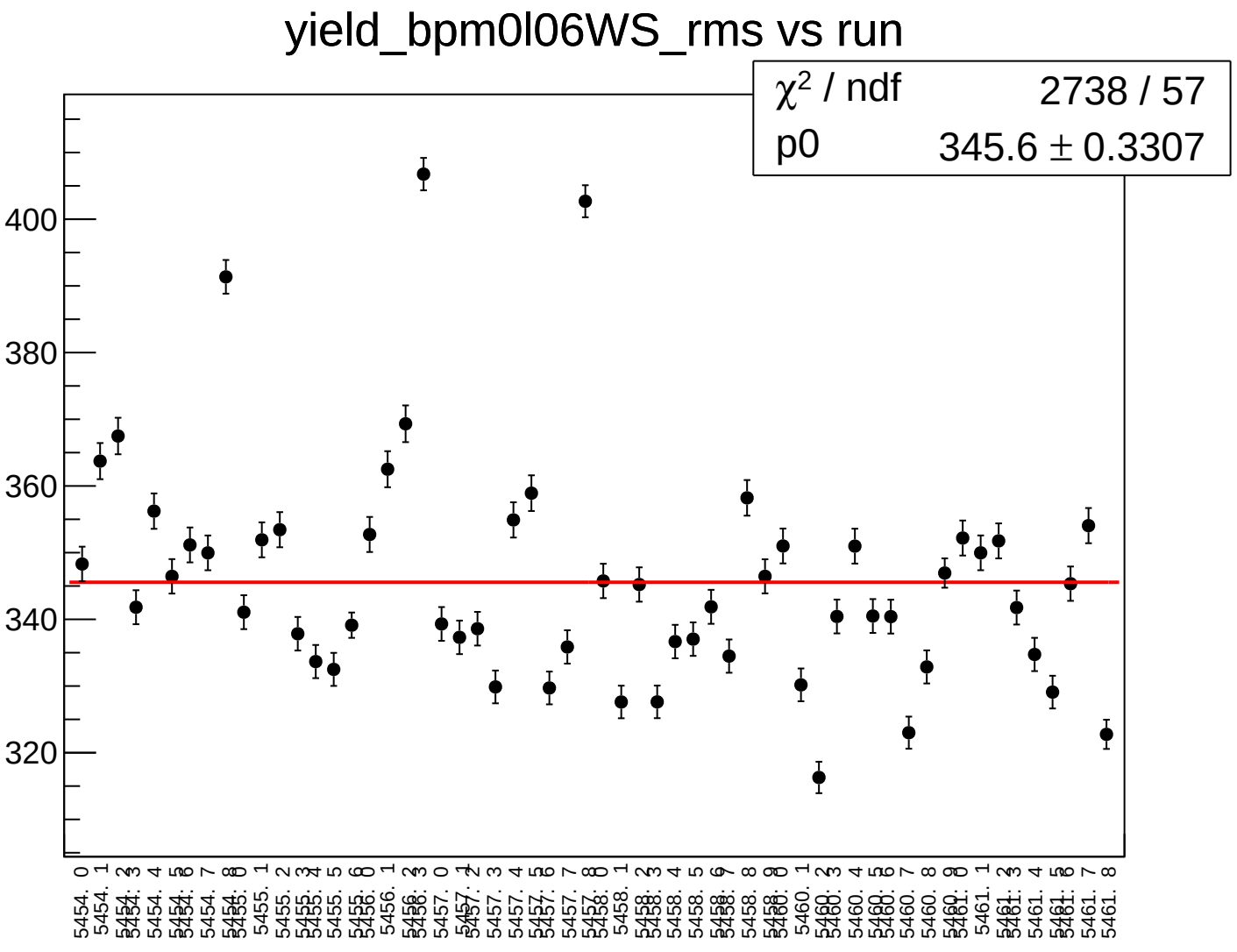

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.039e+05 / 57
p0 1.353e+05 ± 0.4895
135.5
135.4
135.3
135.2
135.1
135
134.9
134.8
pull
Entries 58
Mean −690.1
Std Dev 713
60
40
20
0
−20
−40
−60
−80
−100
−120

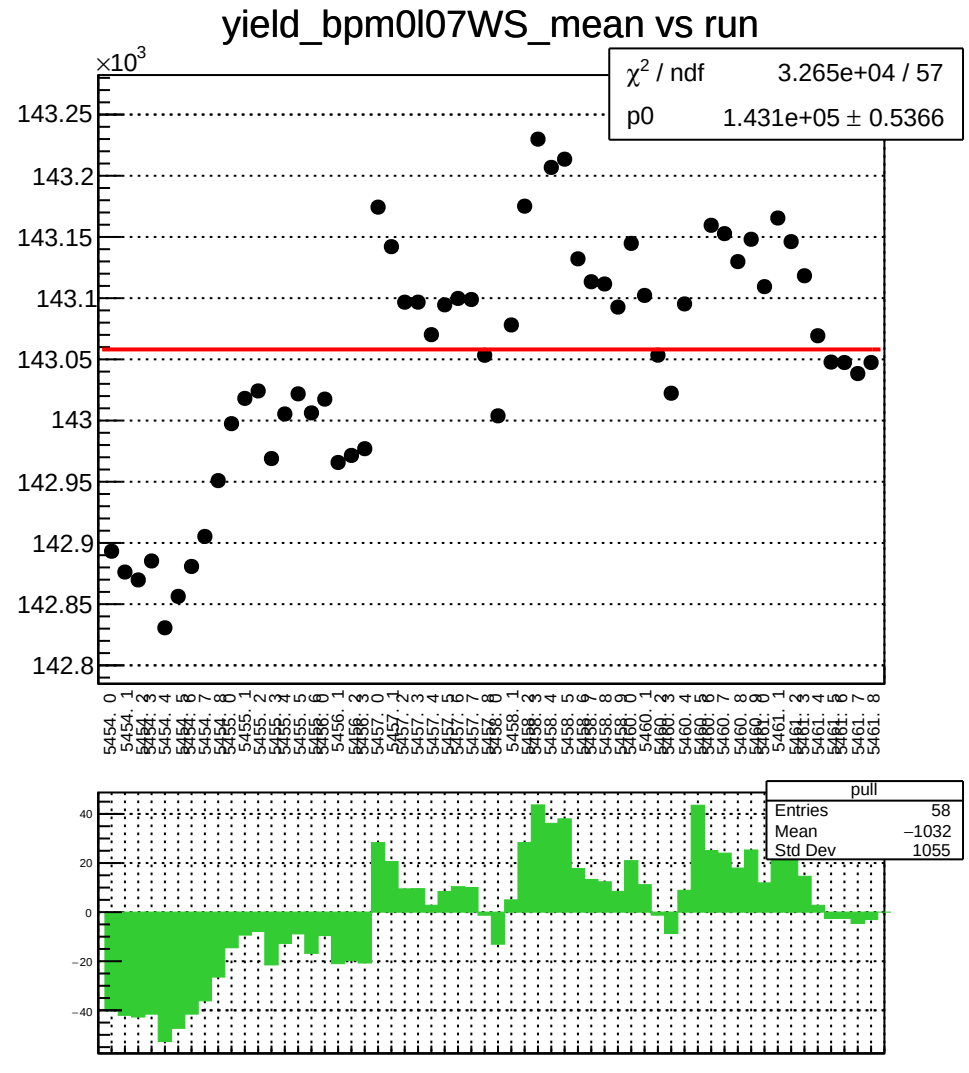

pull1D
Entries 58
Mean 1.069
Std Dev 4.317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

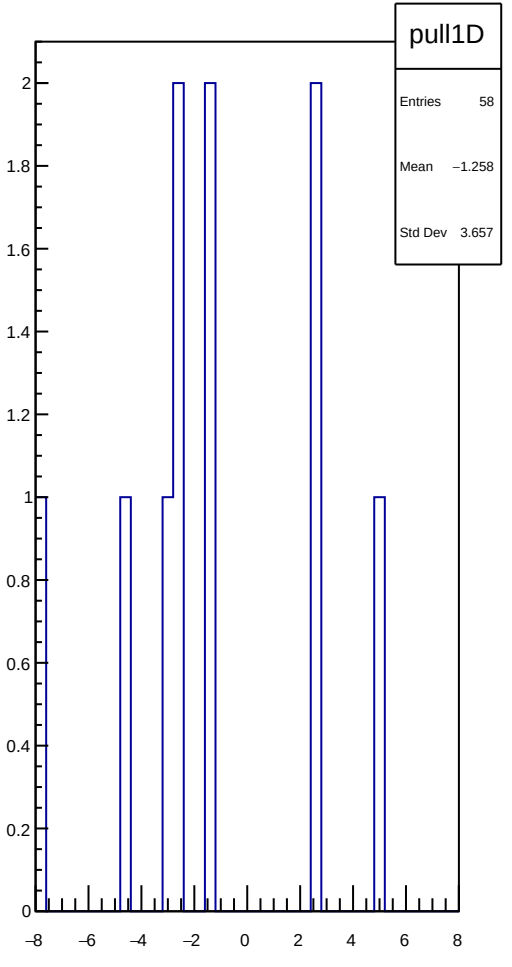

yield_bpm0l05WS_rms vs run
χ² / ndf 2746 / 57
p0 361.7 ± 0.3461
440
420
400
380
360
340
320

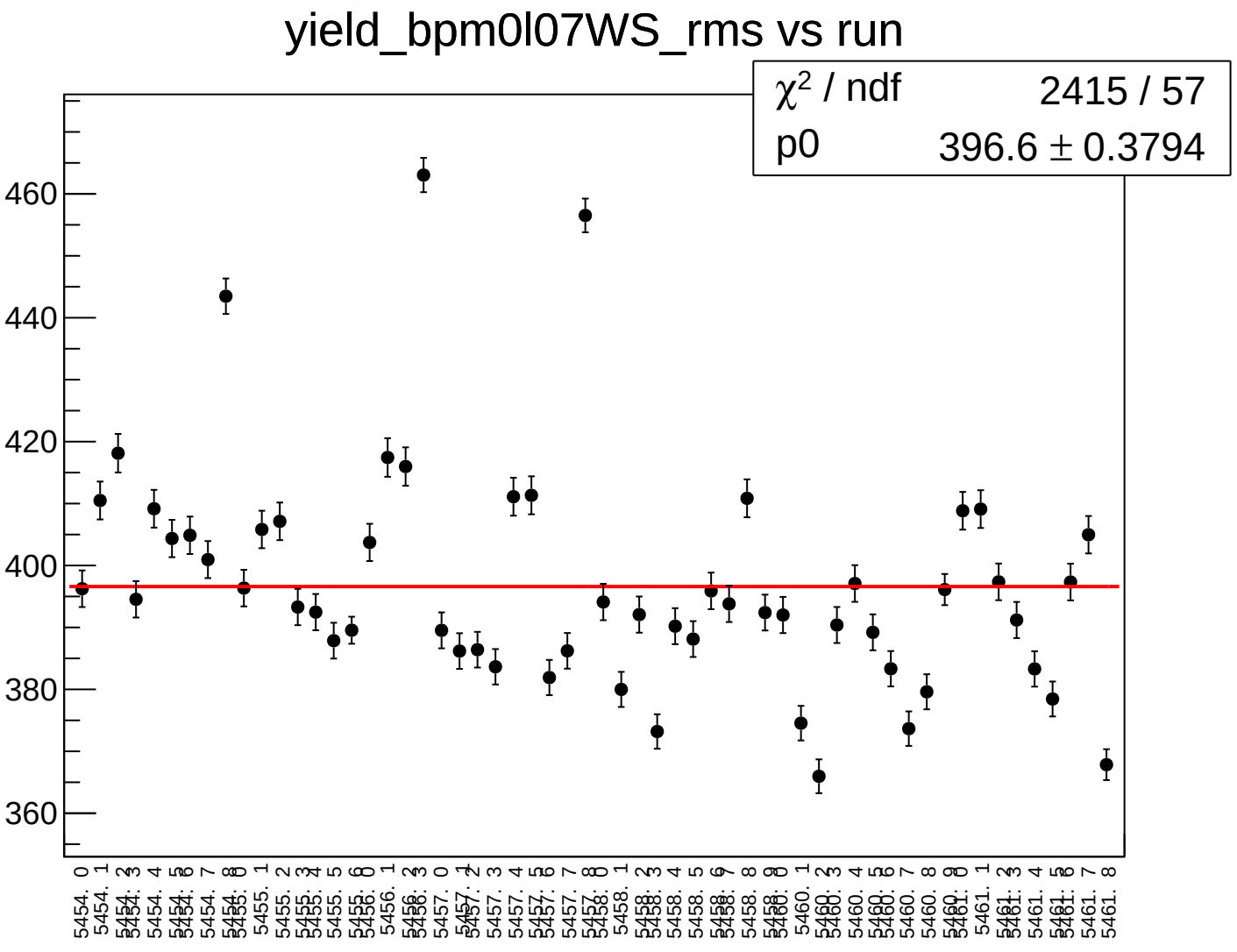

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 9.578e+04 / 57
p0 1.287e+05 ± 0.4676
129
128.9
128.8
128.7
128.6
128.5
128.4
pull
Entries 58
Mean −1311
Std Dev 1338
80
60
40
20
0
−20
−40
−60
−80

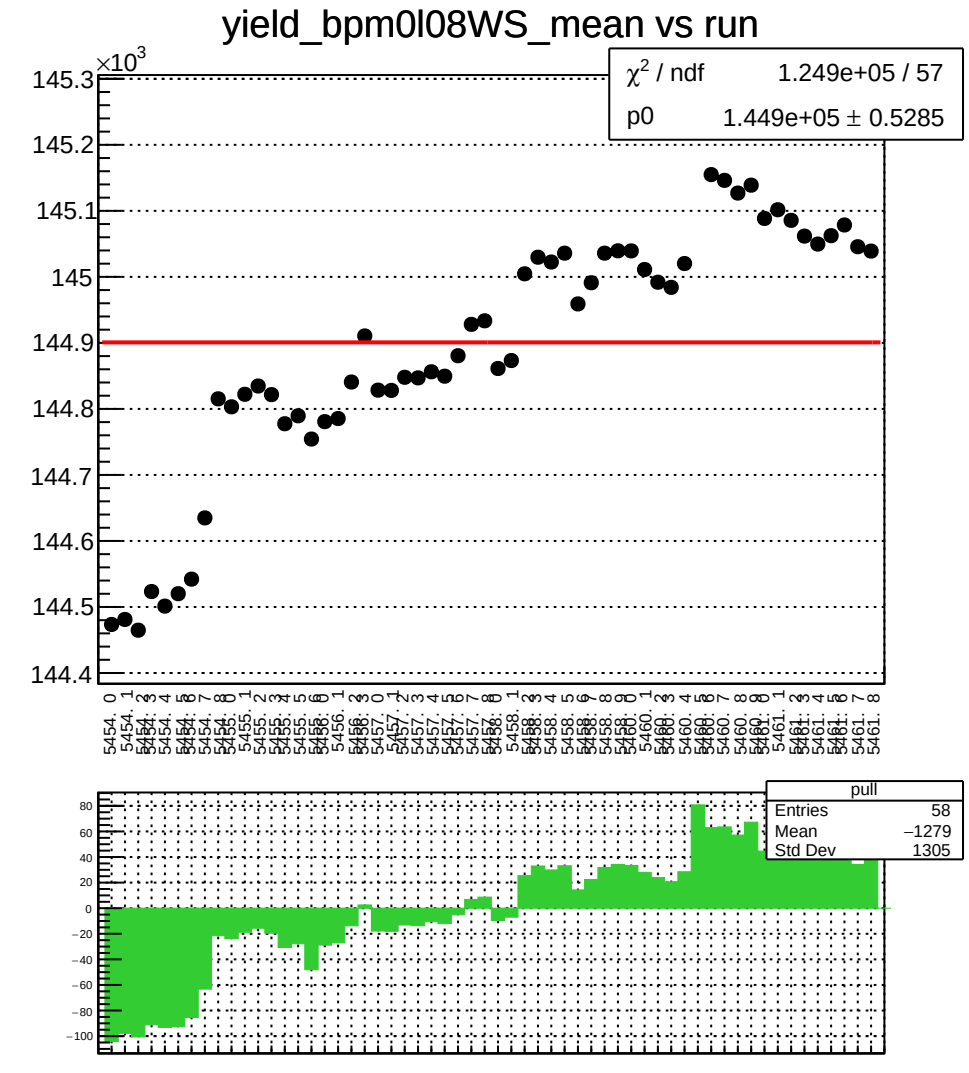

pull1D
Entries 58
Mean −3.678
Std Dev 4.669
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

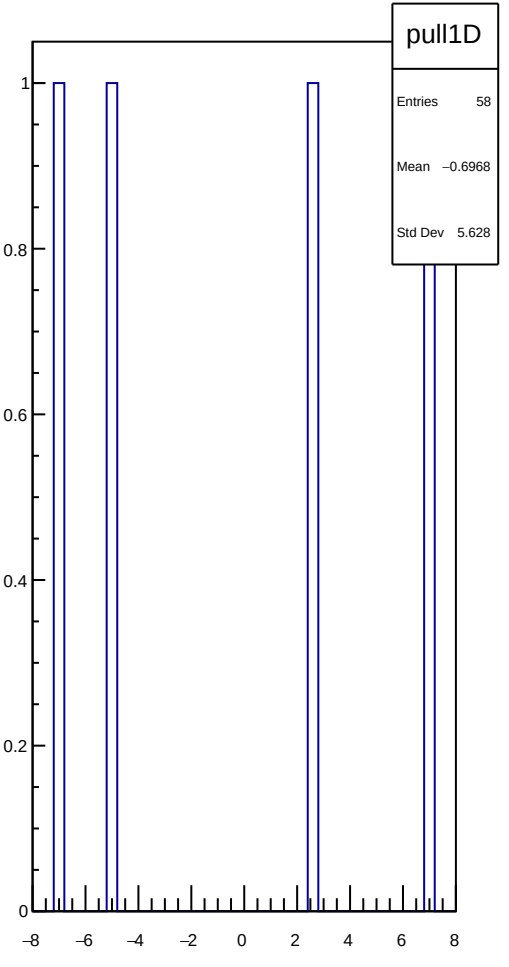

yield_bpm0l06WS_rms vs run
χ² / ndf 2738 / 57
p0 345.6 ± 0.3307
400
380
360
340
320

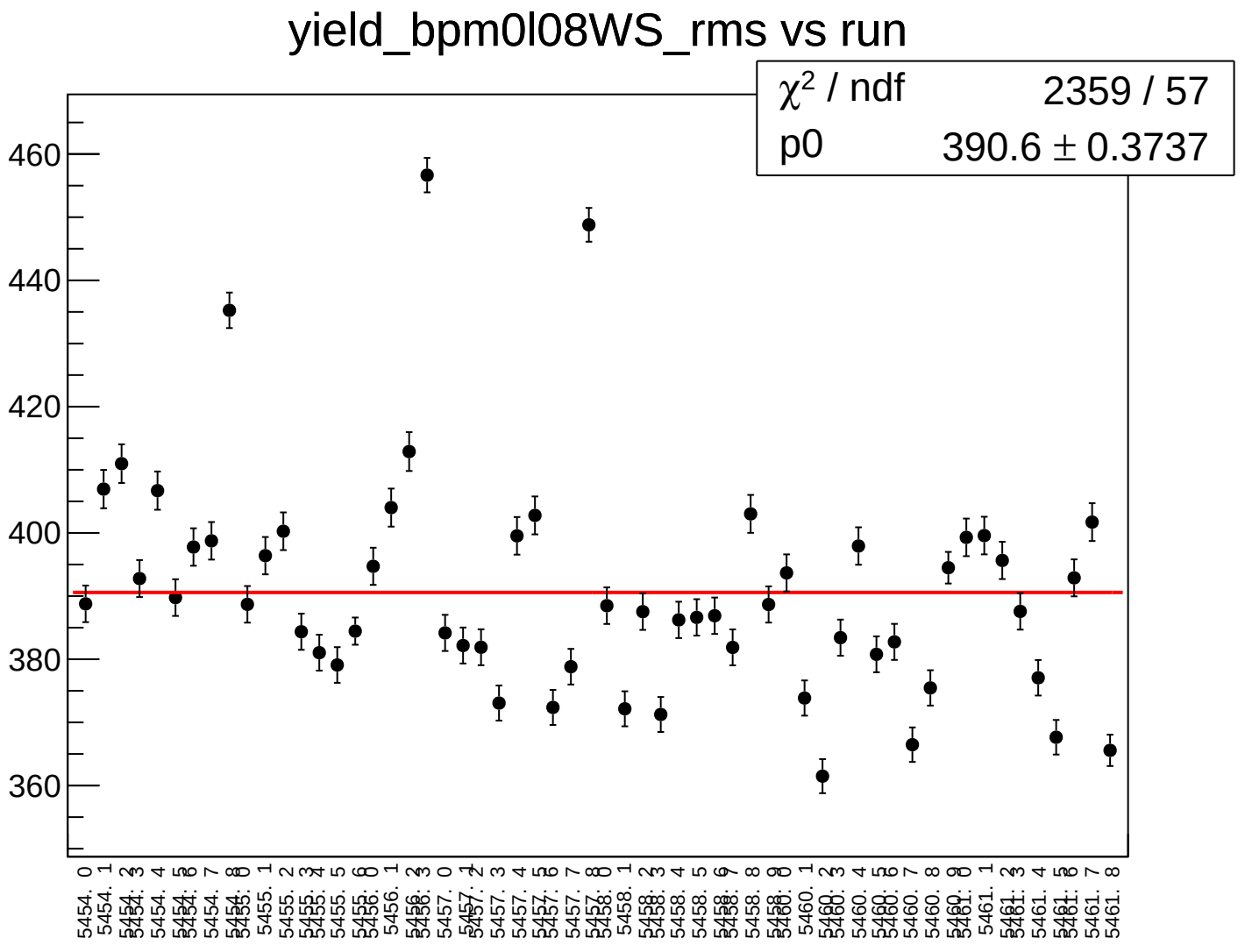

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.265e+04 / 57
p0 1.431e+05 ± 0.5366
143.25
143.2
143.15
143.1
143.05
143
142.95
142.9
142.85
142.8
pull
Entries 58
Mean −1032
Std Dev 1055
40
20
0
−20
−40

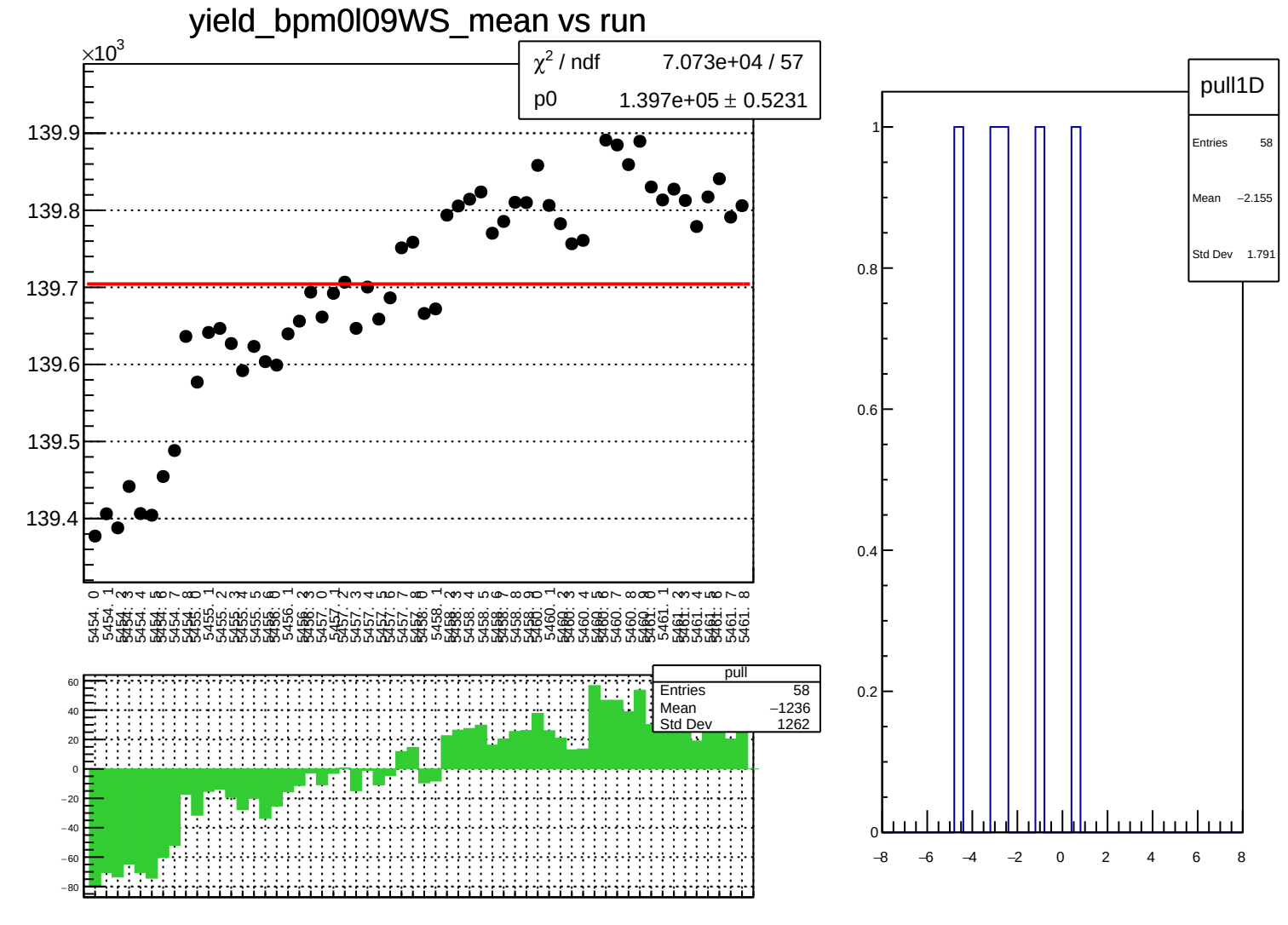

pull1D
Entries 58
Mean −1.258
Std Dev 3.657
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

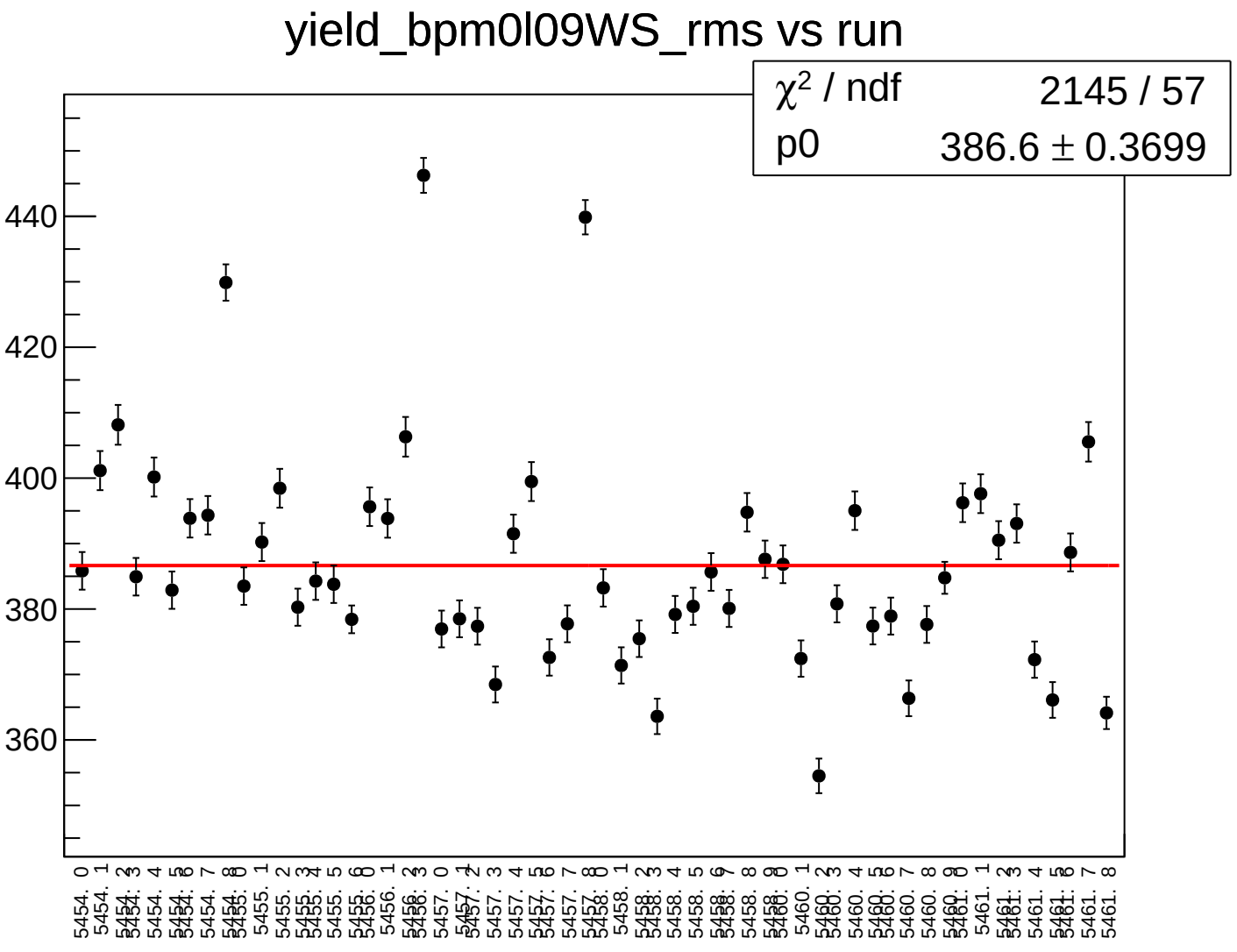

yield_bpm0l07WS_rms vs run
χ² / ndf 2415 / 57
p0 396.6 ± 0.3794
460
440
420
400
380
360

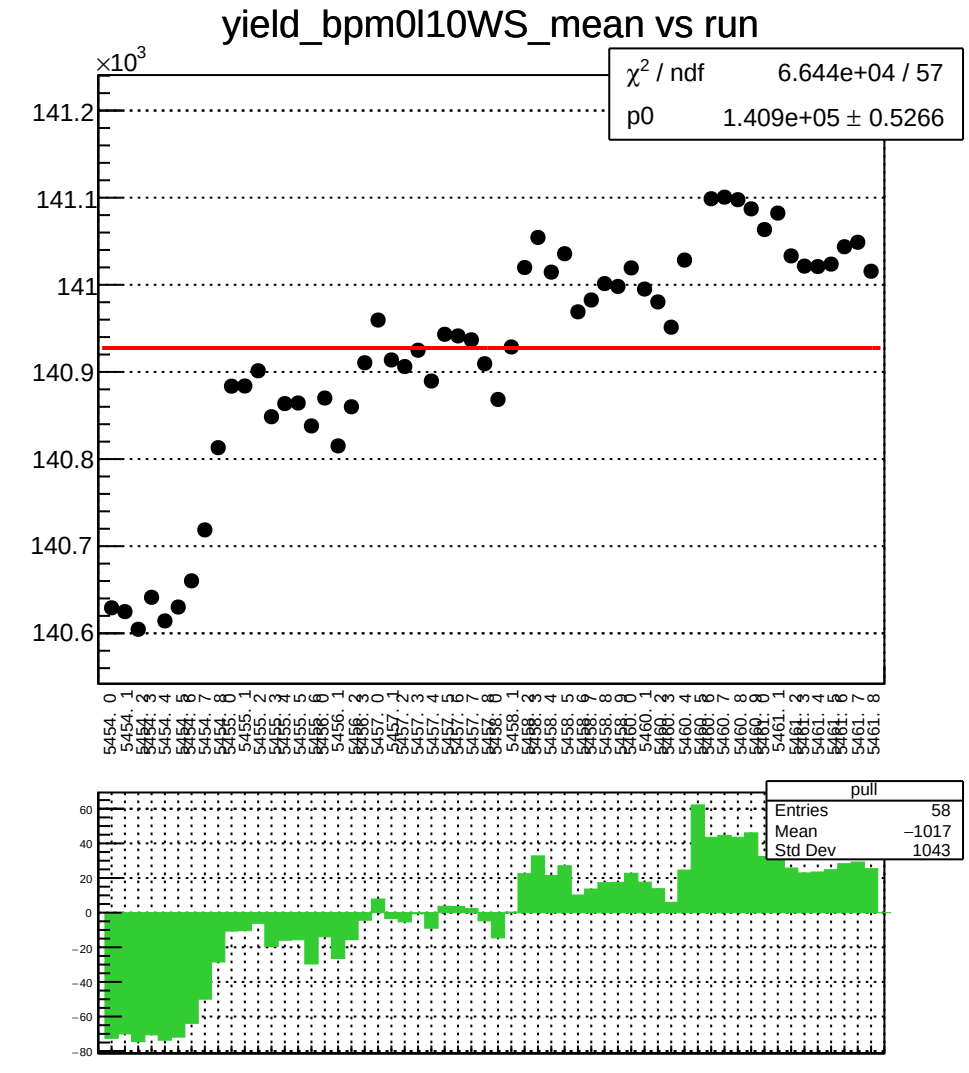

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.249e+05 / 57
p0 1.449e+05 ± 0.5285
145.3
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
pull
Entries 58
Mean −1279
Std Dev 1305
80
60
40
20
0
−20
−40
−60
−80
−100

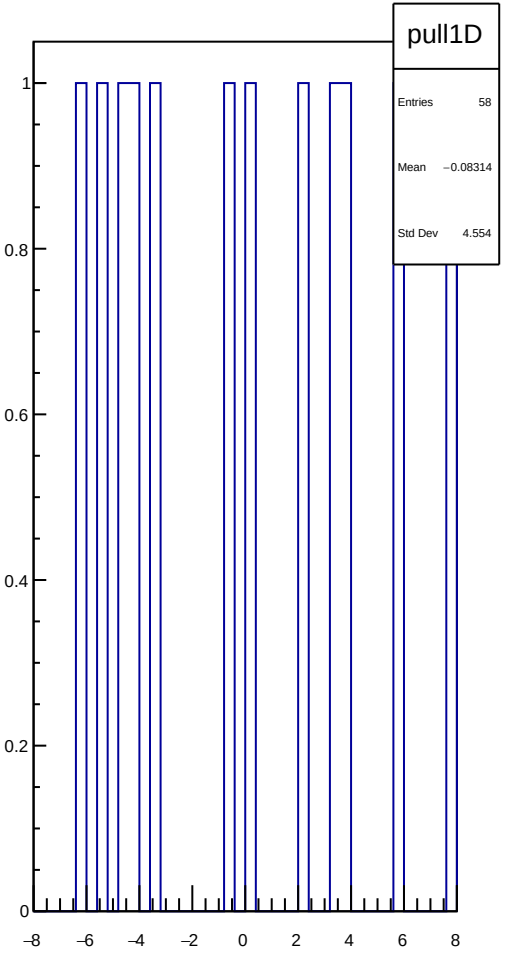

pull1D
Entries 58
Mean −0.6968
Std Dev 5.628
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

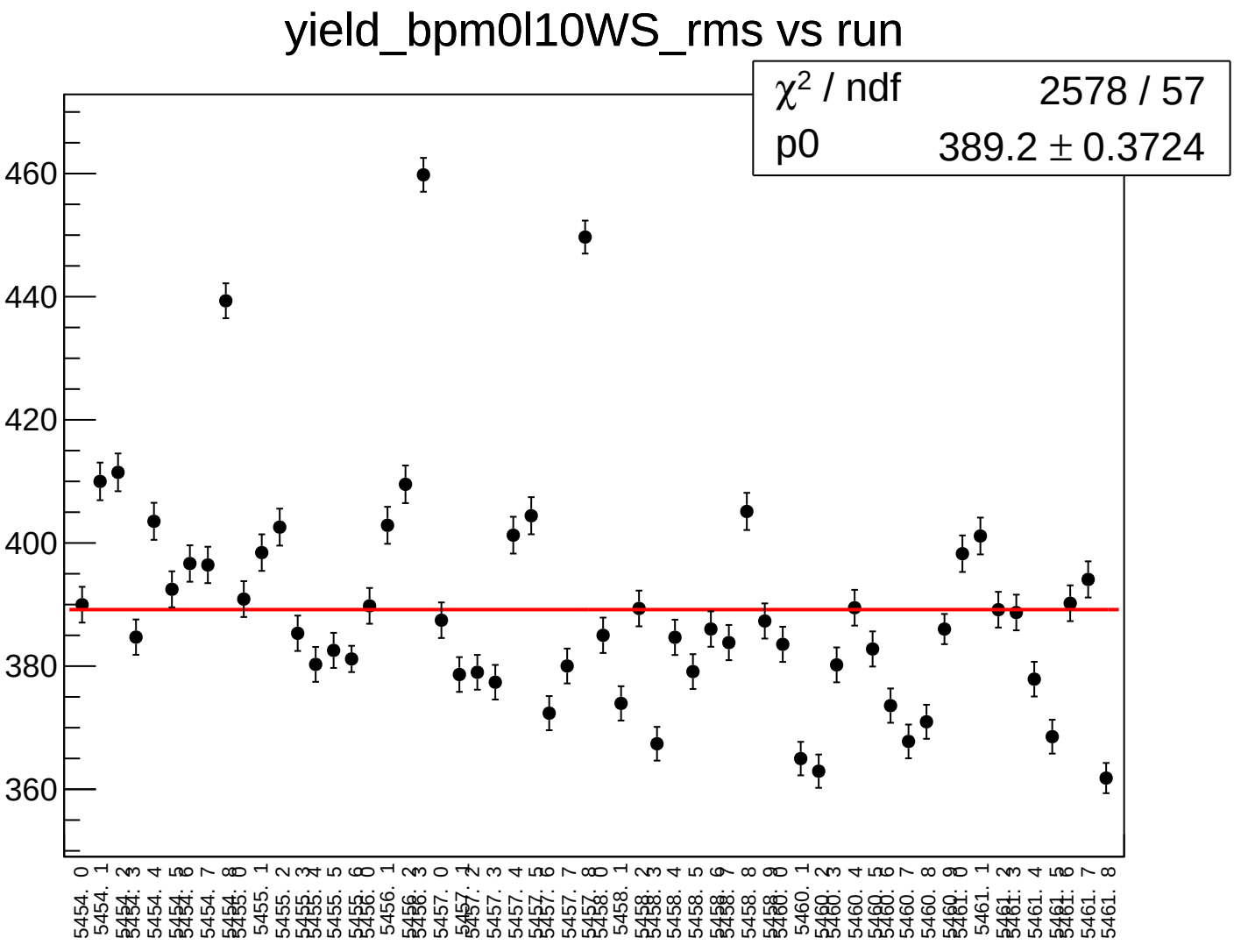

yield_bpm0l08WS_rms vs run
χ² / ndf 2359 / 57
p0 390.6 ± 0.3737
460
440
420
400
380
360

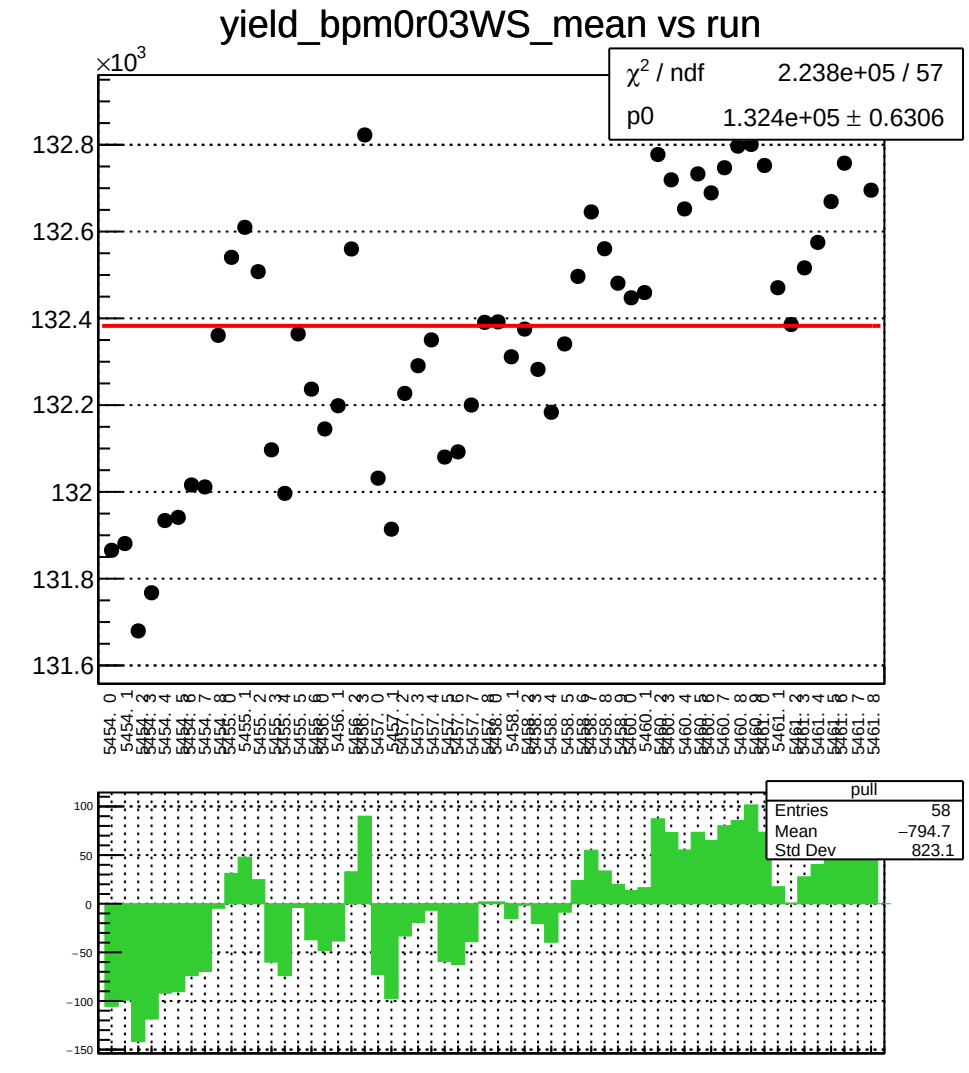

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 7.073e+04 / 57
p0 1.397e+05 ± 0.5231
139.9
139.8
139.7
139.6
139.5
139.4
pull
Entries 58
Mean −1236
Std Dev 1262
pull1D
Entries 58
Mean −2.155
Std Dev 1.791

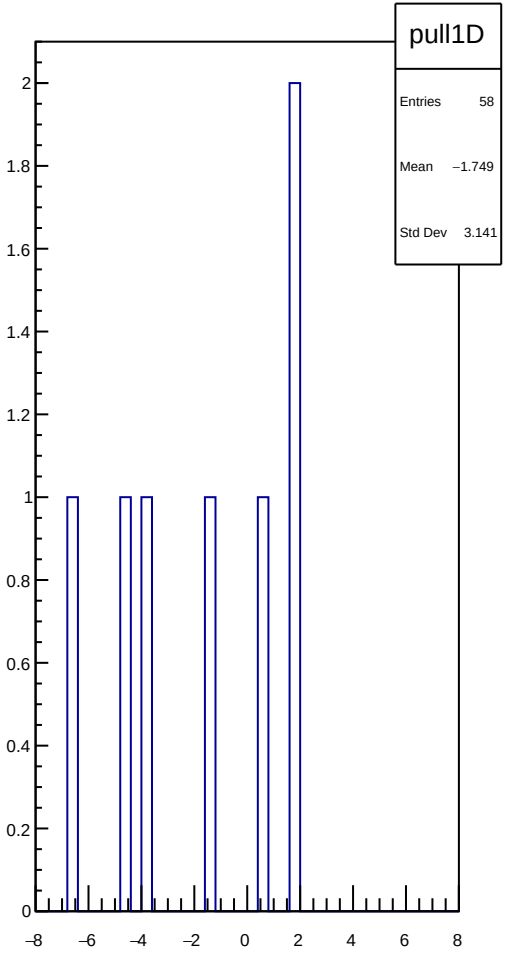

yield_bpm0l09WS_rms vs run
χ² / ndf 2145 / 57
p0 386.6 ± 0.3699
440
420
400
380
360

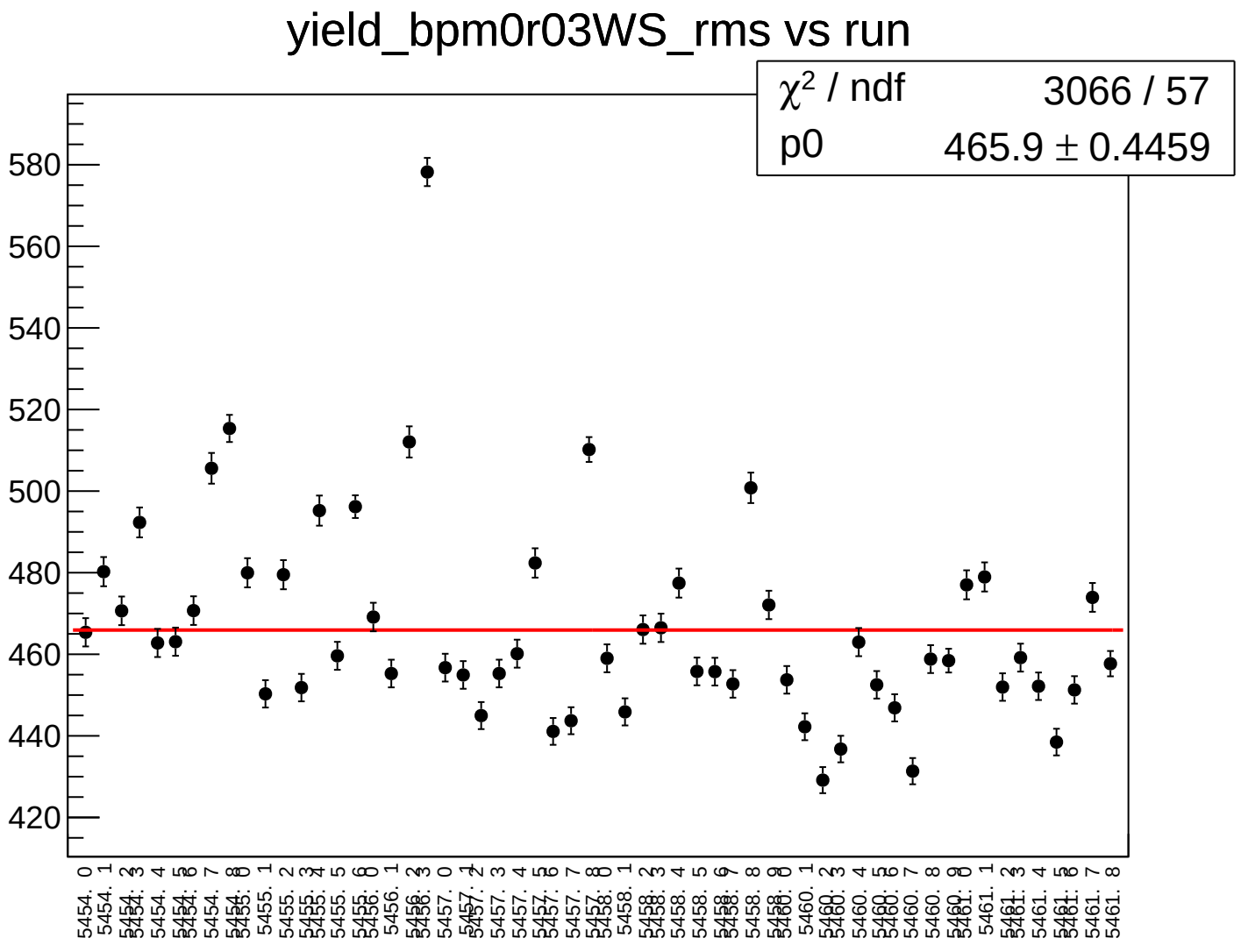

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 6.644e+04 / 57
p0 1.409e+05 ± 0.5266
141.2
141.1
141
140.9
140.8
140.7
140.6
pull
Entries 58
Mean −1017
Std Dev 1043
60
40
20
0
−20
−40
−60
−80

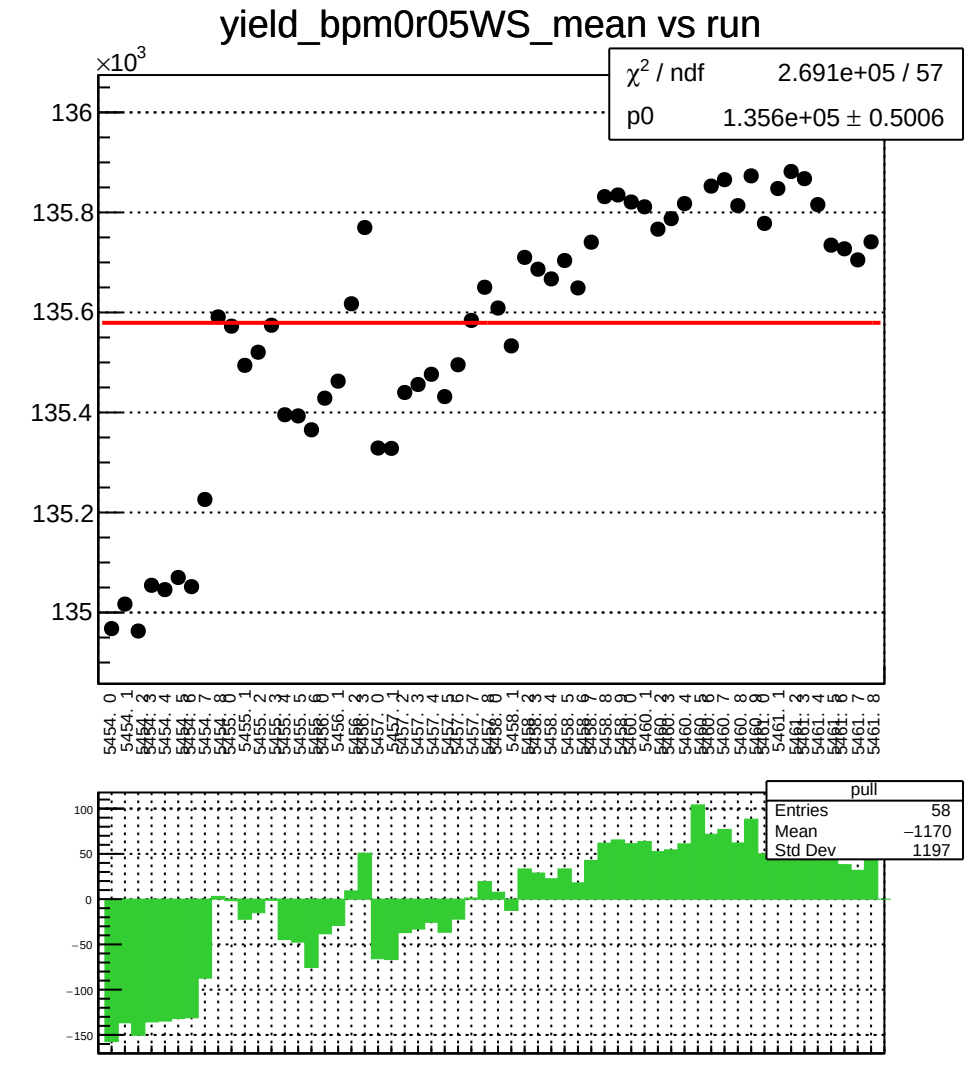

pull1D
Entries 58
Mean −0.08314
Std Dev 4.554
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

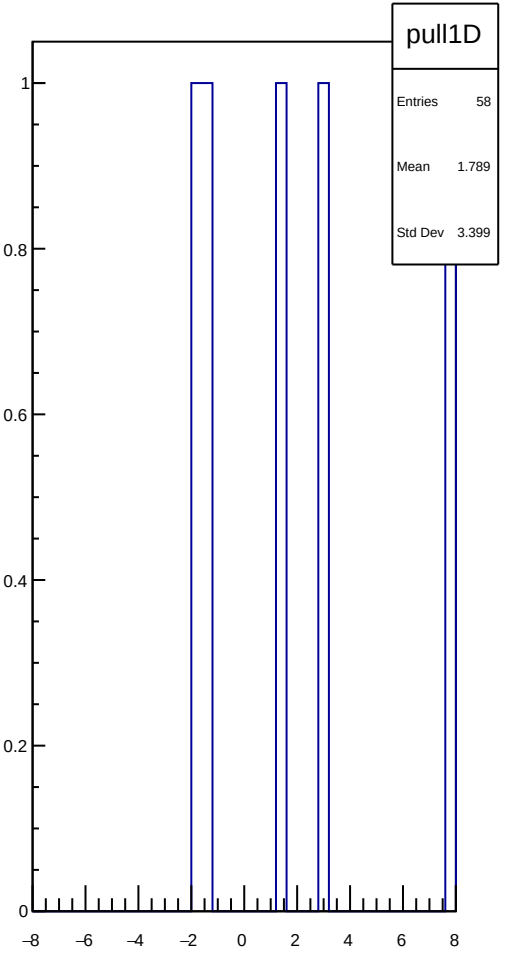

yield_bpm0l10WS_rms vs run
χ² / ndf 2578 / 57
p0 389.2 ± 0.3724
460
440
420
400
380
360

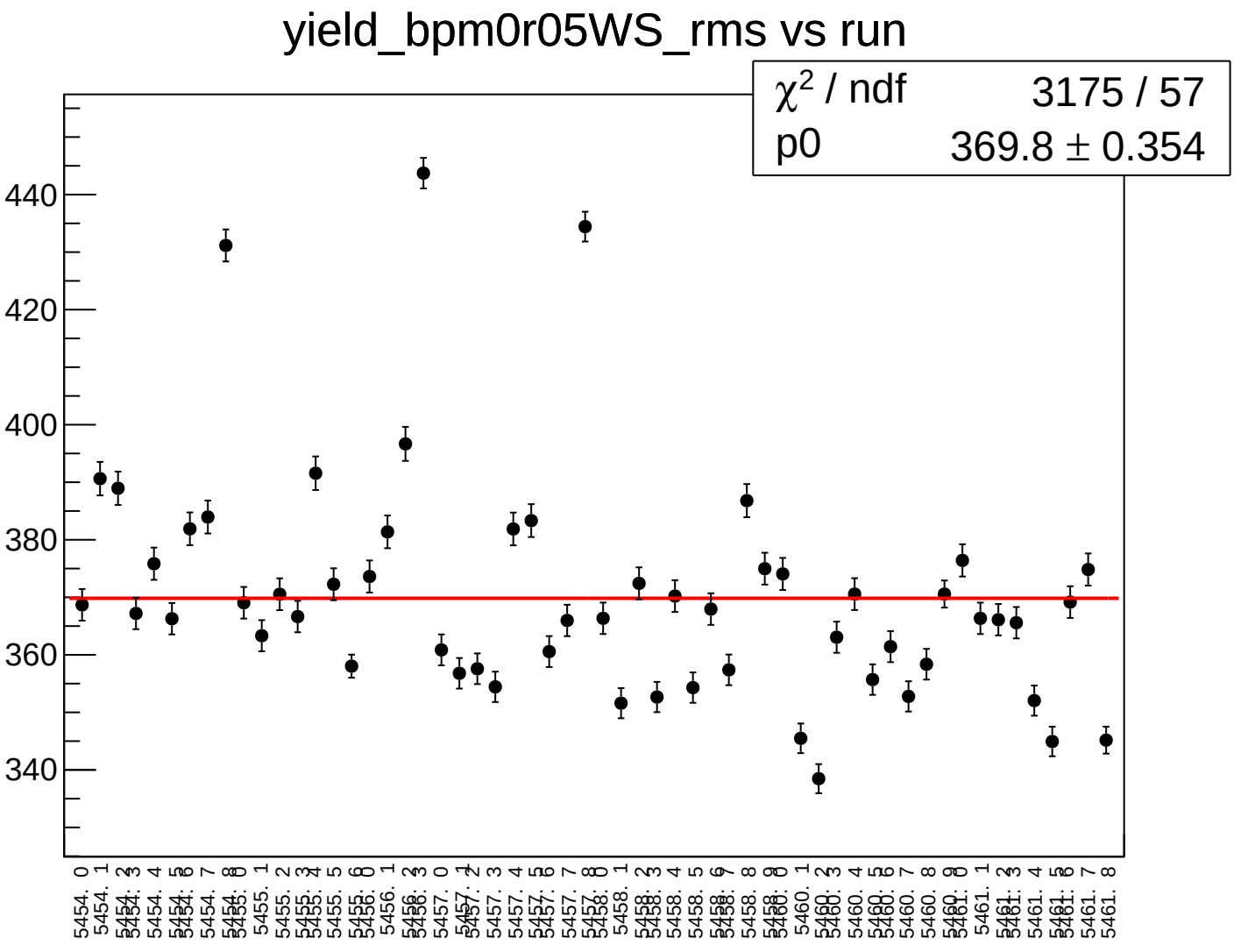

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.238e+05 / 57
p0 1.324e+05 ± 0.6306
132.8
132.6
132.4
132.2
132
131.8
131.6
pull
Entries 58
Mean −794.7
Std Dev 823.1
100
50
0
−50
−100
−150

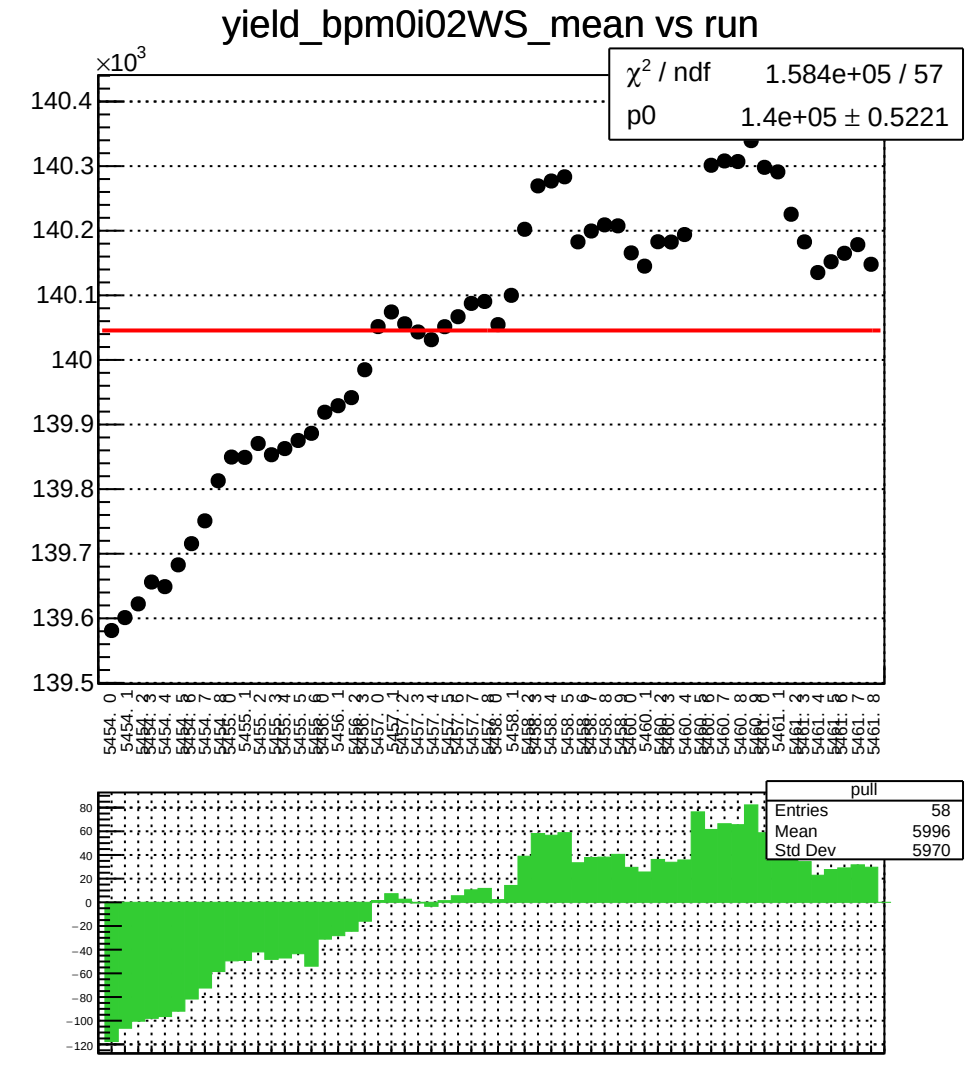

pull1D
Entries 58
Mean −1.749
Std Dev 3.141
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

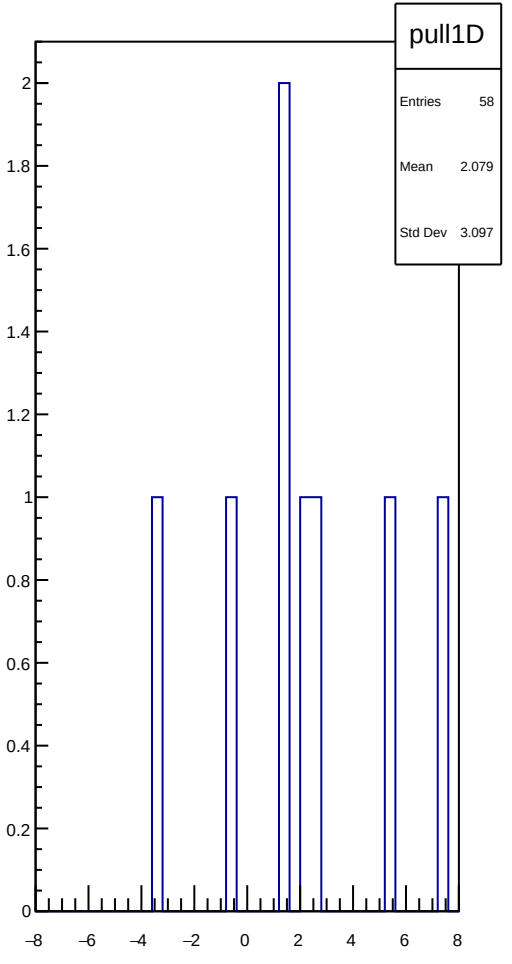

yield_bpm0r03WS_rms vs run
χ² / ndf 3066 / 57
p0 465.9 ± 0.4459
580
560
540
520
500
480
460
440
420

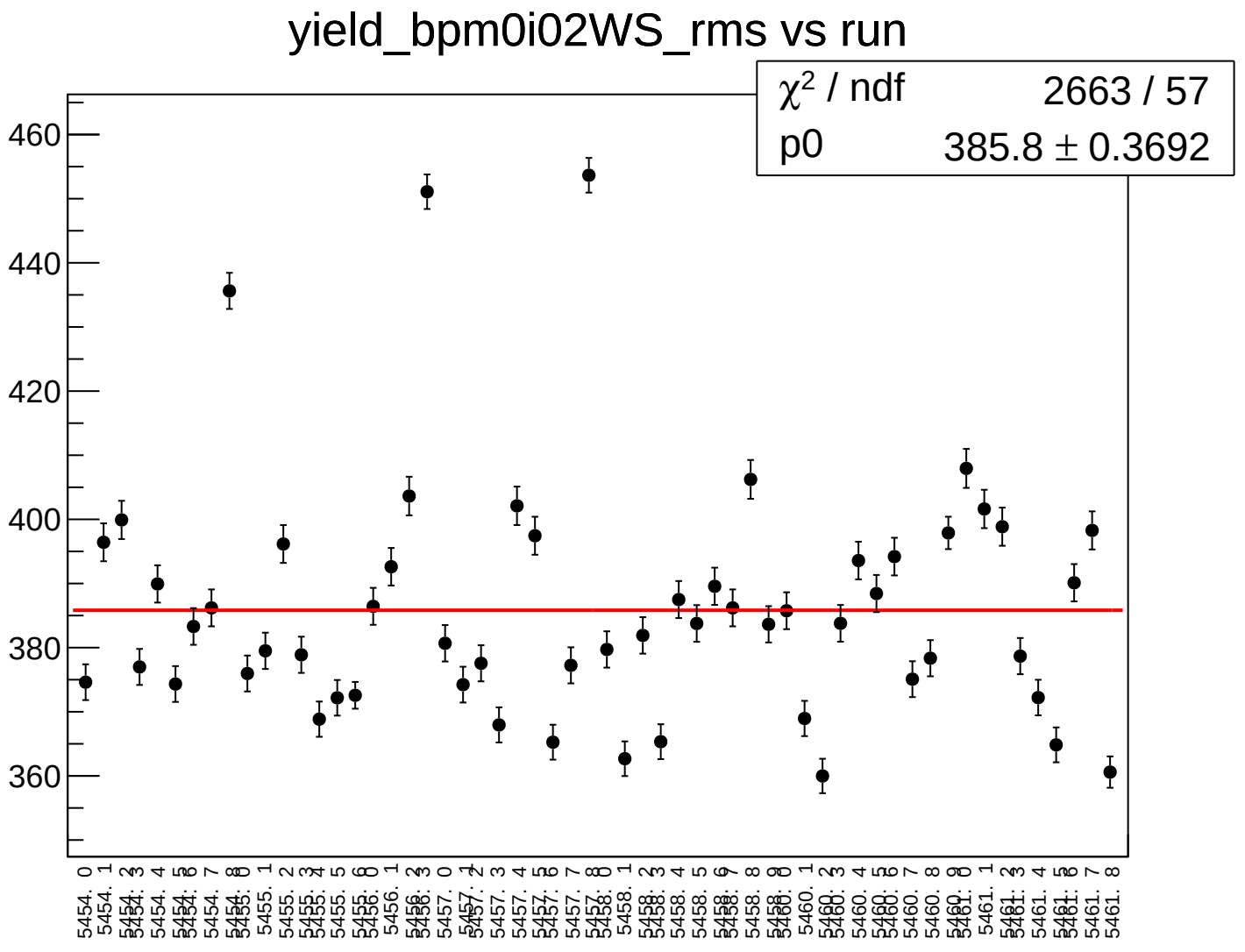

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 2.691e+05 / 57
p0 1.356e+05 ± 0.5006
136
135.8
135.6
135.4
135.2
135
pull
Entries 58
Mean −1170
Std Dev 1197
100
50
0
−50
−100
−150

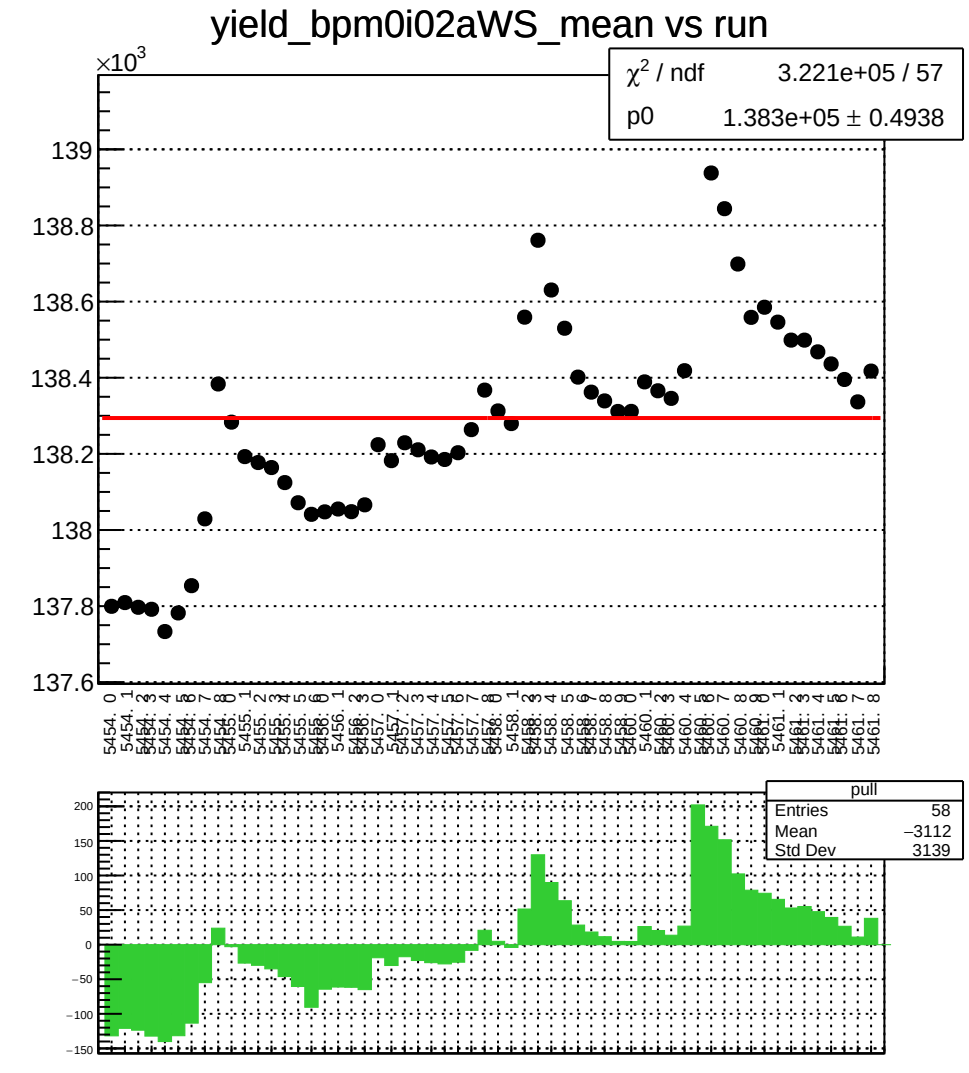

pull1D
Entries 58
Mean 1.789
Std Dev 3.399
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

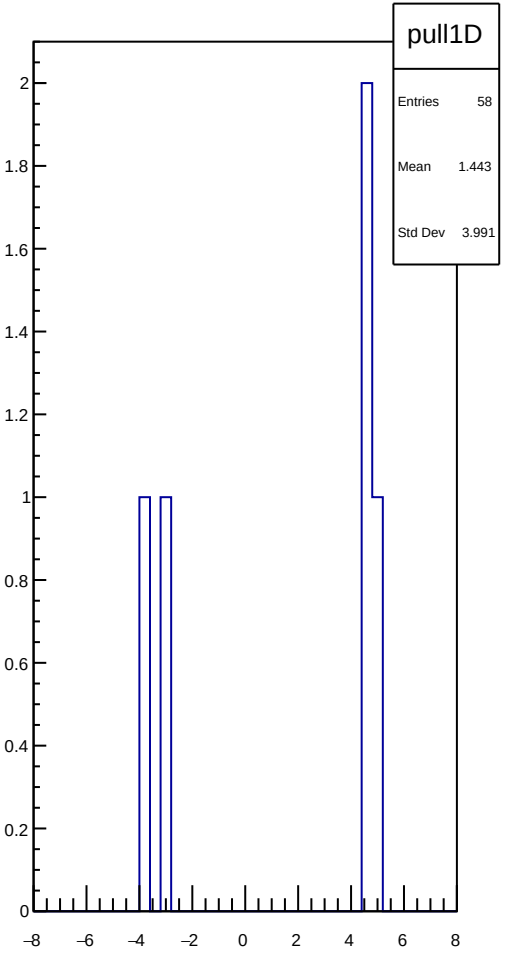

yield_bpm0r05WS_rms vs run
χ² / ndf 3175 / 57
p0 369.8 ± 0.354
440
420
400
380
360
340

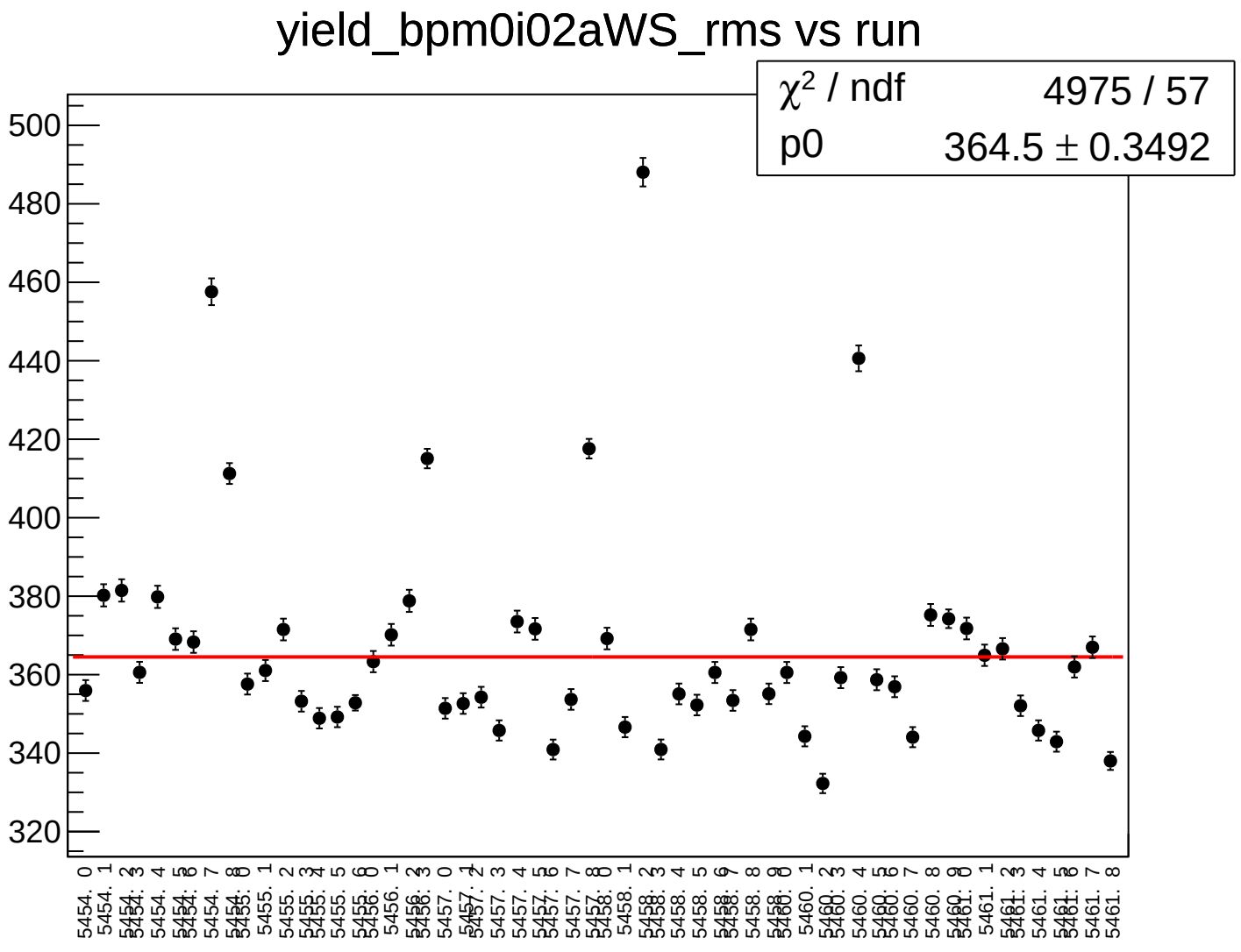

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.584e+05 / 57
p0 1.4e+05 ± 0.5221
140.4
140.3
140.2
140.1
140
139.9
139.8
139.7
139.6
139.5
pull
Entries 58
Mean 5996
Std Dev 5970
80
60
40
20
0
−20
−40
−60
−80
−100
−120

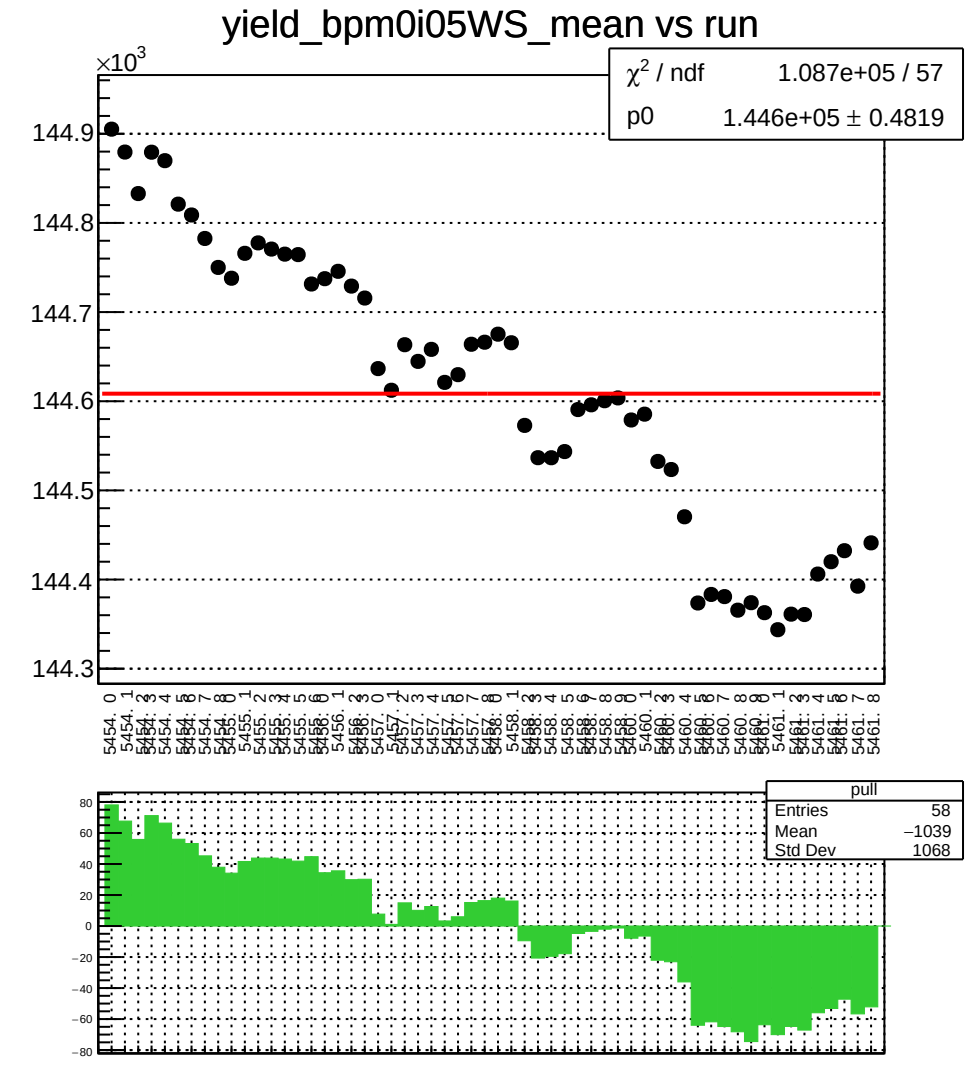

pull1D
Entries 58
Mean 2.079
Std Dev 3.097
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

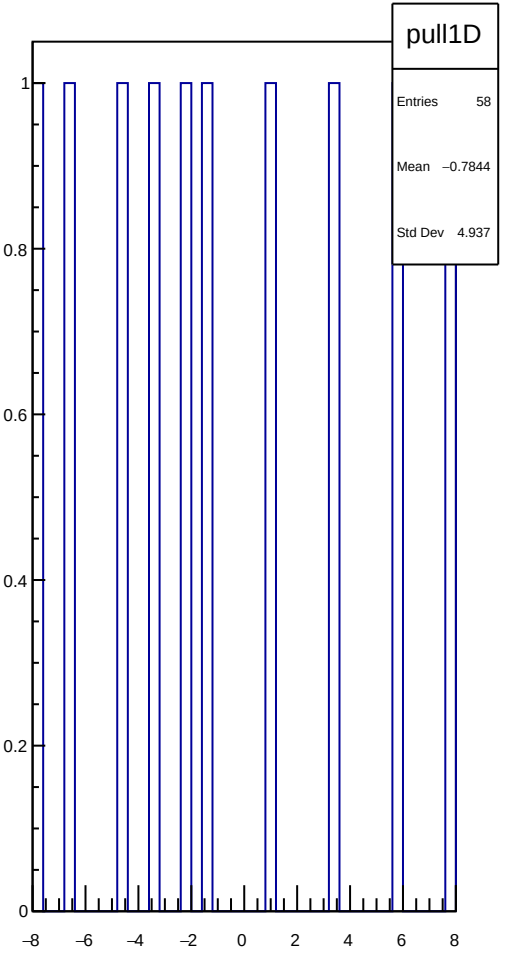

yield_bpm0i02WS_rms vs run
χ² / ndf 2663 / 57
p0 385.8 ± 0.3692
460
440
420
400
380
360

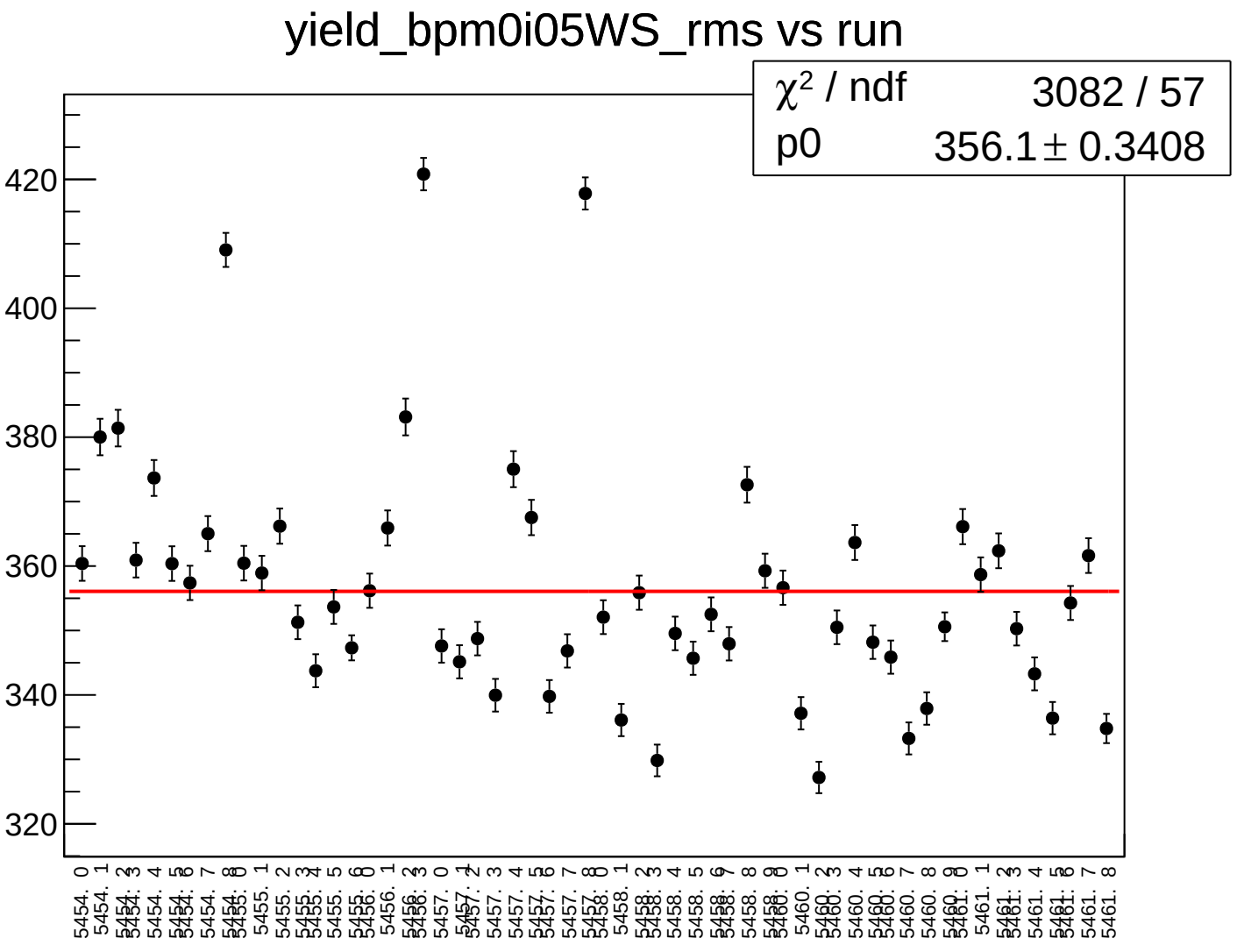

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 3.221e+05 / 57
p0 1.383e+05 ± 0.4938
pull
Entries 58
Mean −3112
Std Dev 3139

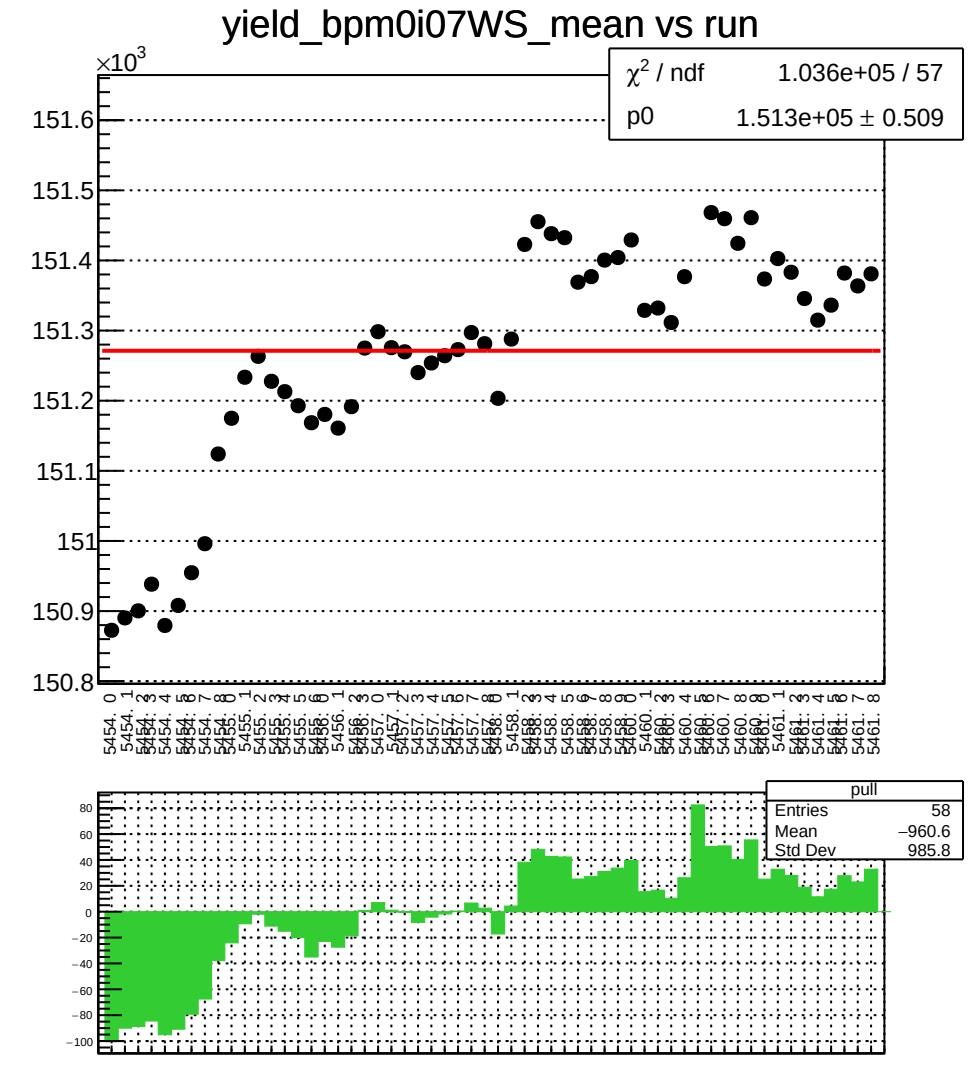

pull1D
Entries 58
Mean 1.443
Std Dev 3.991

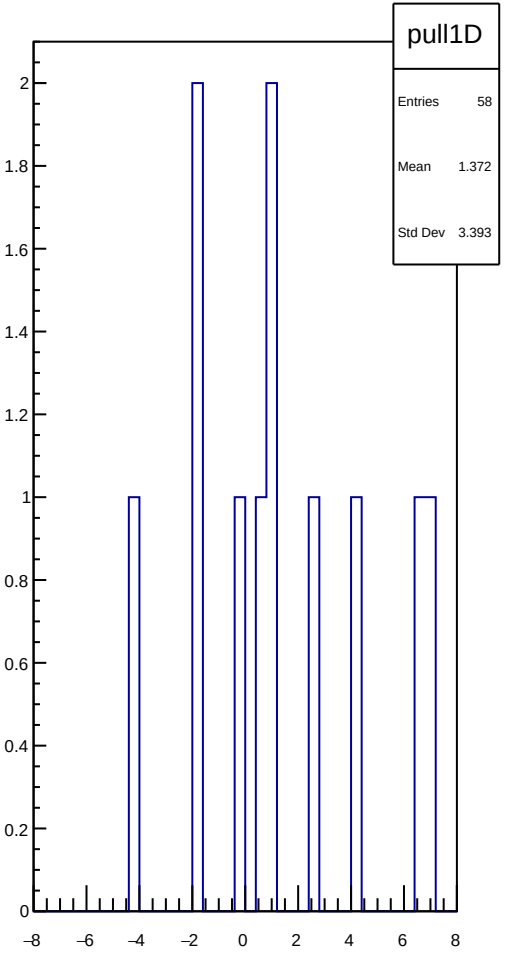

yield_bpm0i02aWS_rms vs run
χ² / ndf 4975 / 57
p0 364.5 ± 0.3492
500
480
460
440
420
400
380
360
340
320

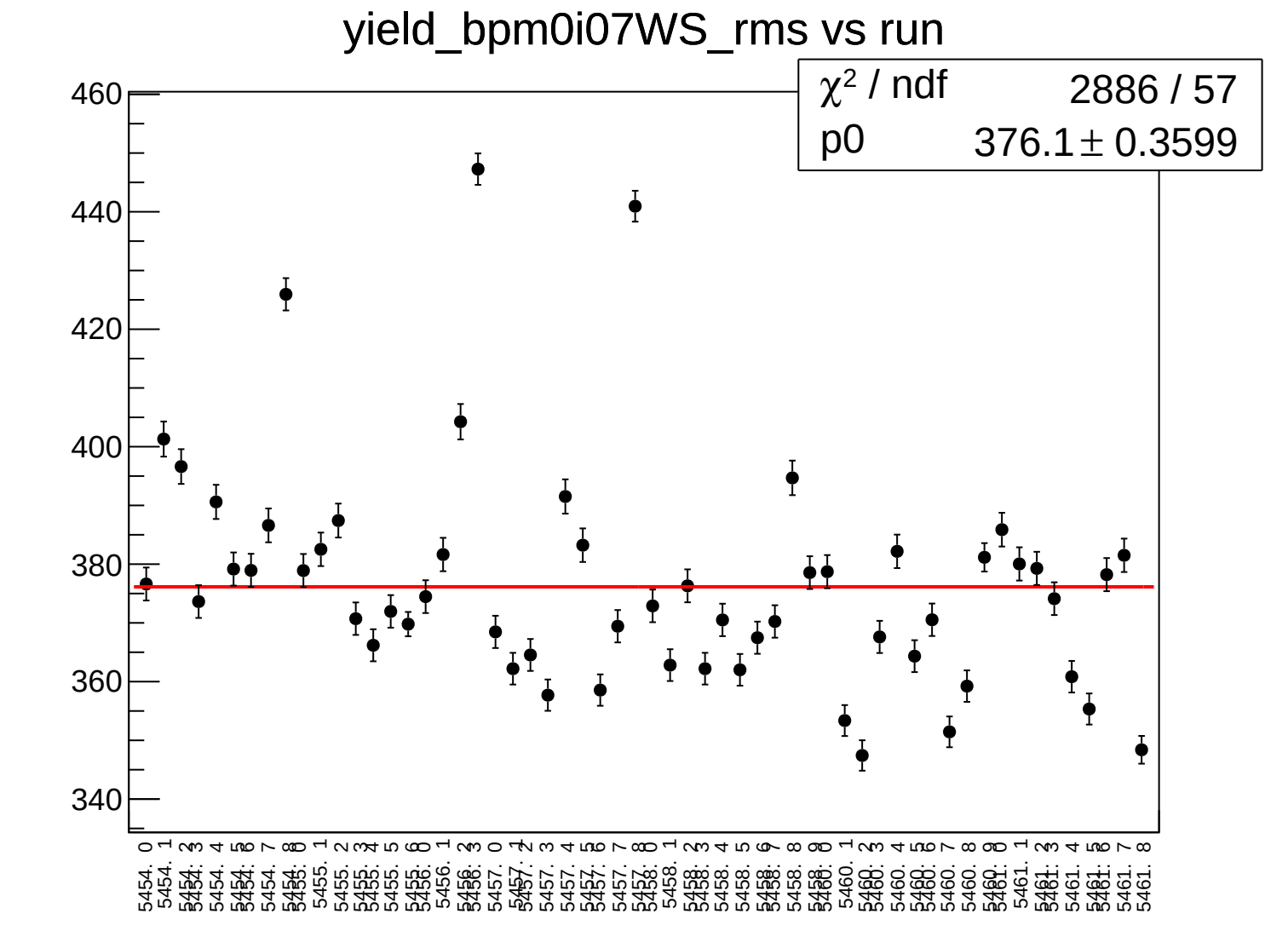

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.087e+05 / 57
p0 1.446e+05 ± 0.4819
144.9
144.8
144.7
144.6
144.5
144.4
144.3
pull
Entries 58
Mean −1039
Std Dev 1068
80
60
40
20
0
−20
−40
−60
−80

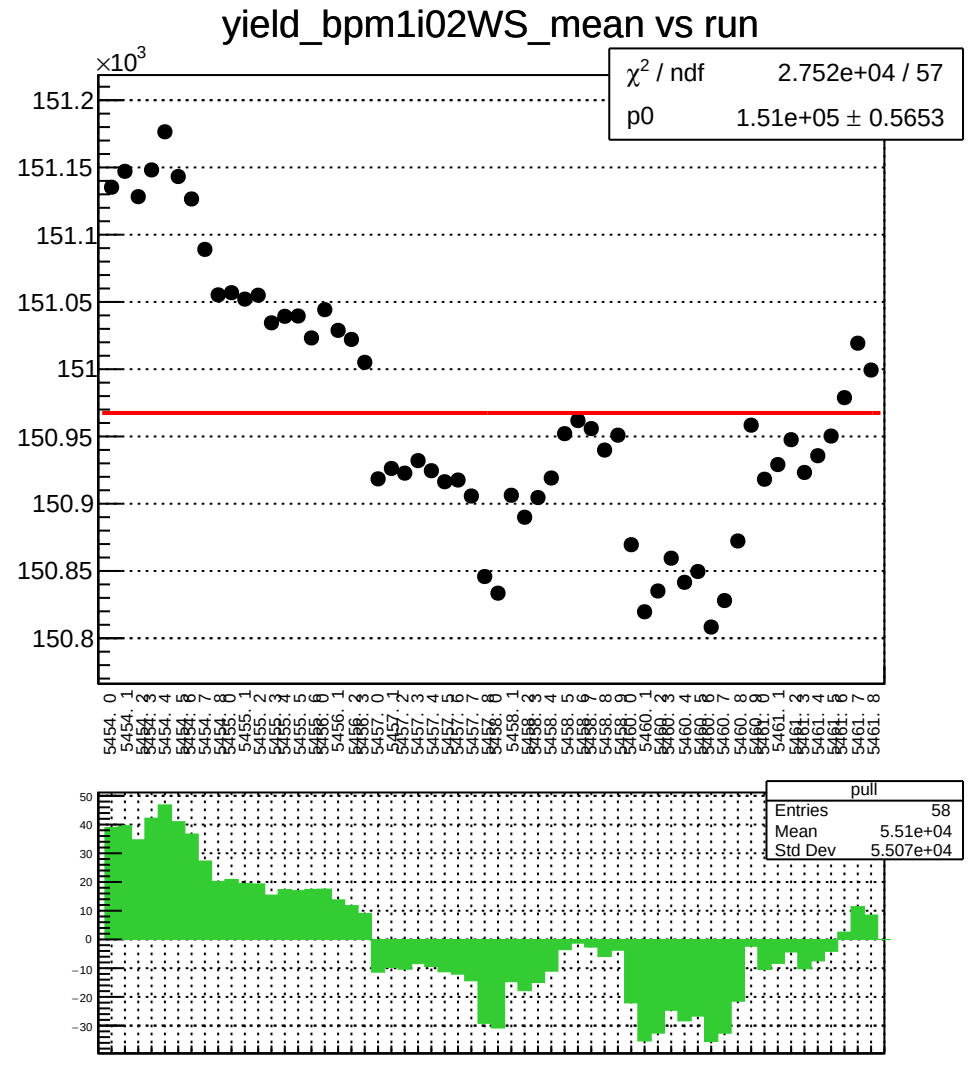

pull1D
Entries 58
Mean −0.7844
Std Dev 4.937
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

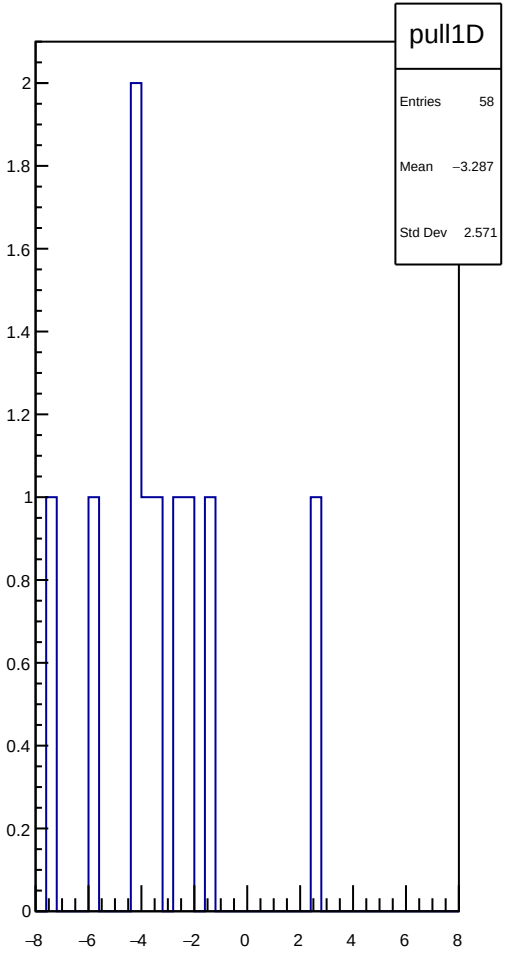

yield_bpm0i05WS_rms vs run
χ² / ndf 3082 / 57
p0 356.1 ± 0.3408
420
400
380
360
340
320

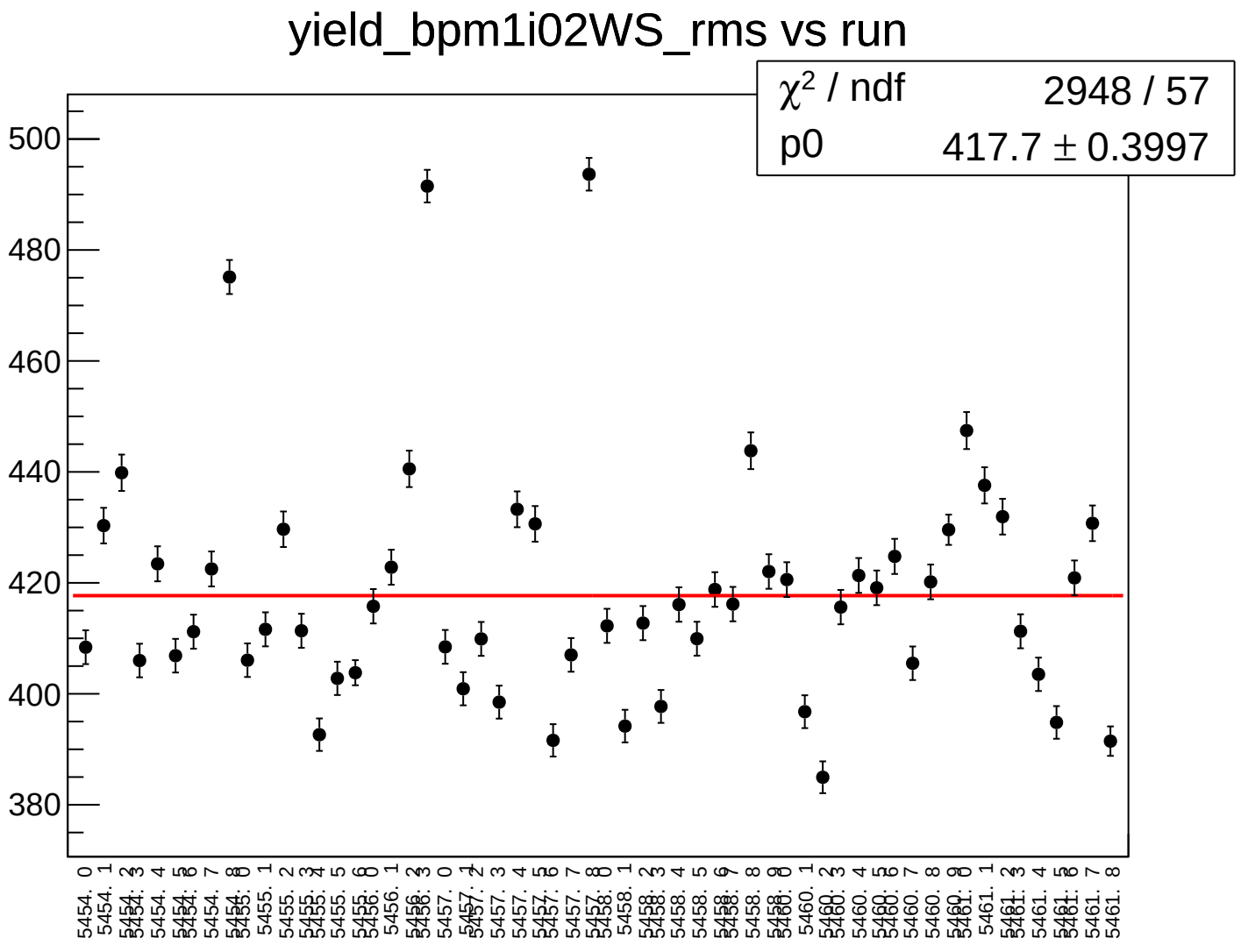

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 1.036e+05 / 57
p0 1.513e+05 ± 0.509
151.6
151.5
151.4
151.3
151.2
151.1
151
150.9
150.8
pull
Entries 58
Mean −960.6
Std Dev 985.8
80
60
40
20
0
−20
−40
−60
−80
−100

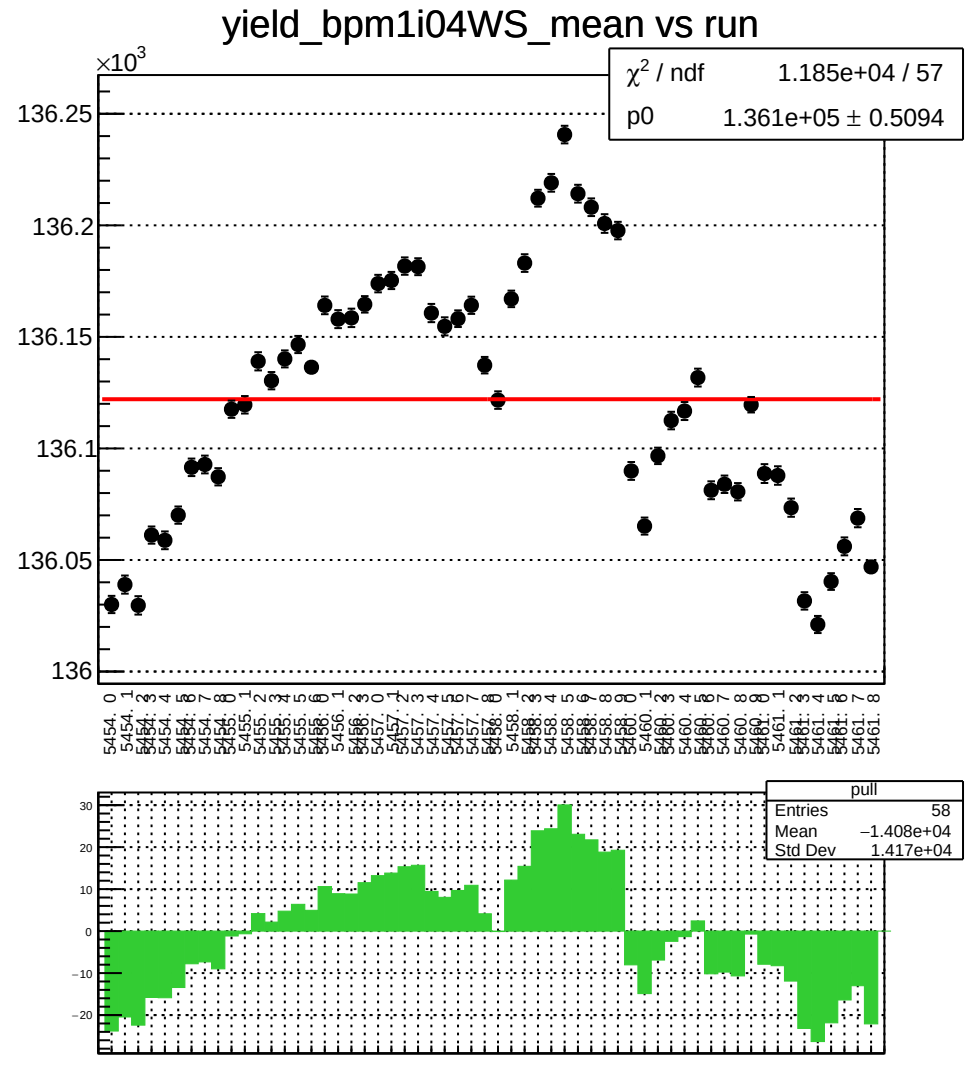

pull1D
Entries 58
Mean 1.372
Std Dev 3.393
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

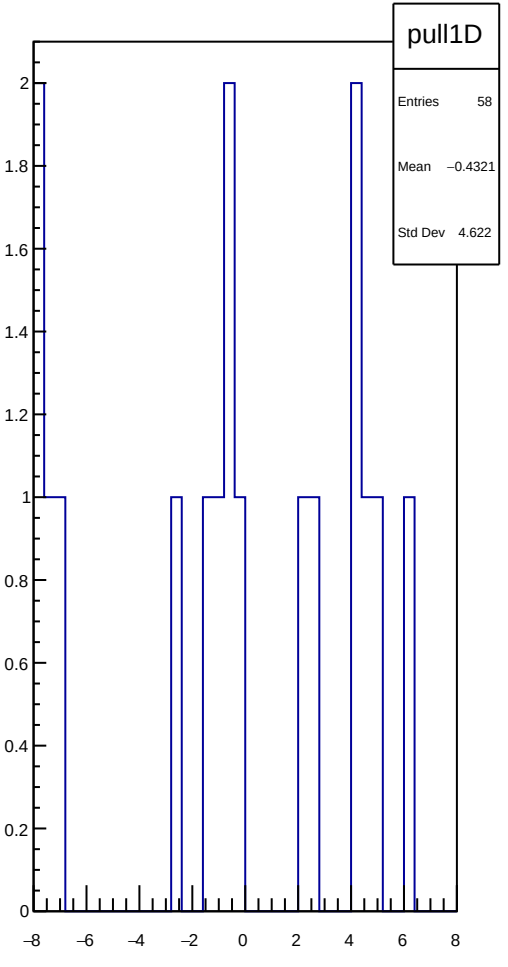

yield_bpm0i07WS_rms vs run
χ² / ndf 2886 / 57
p0 376.1 ± 0.3599
460
440
420
400
380
360
340

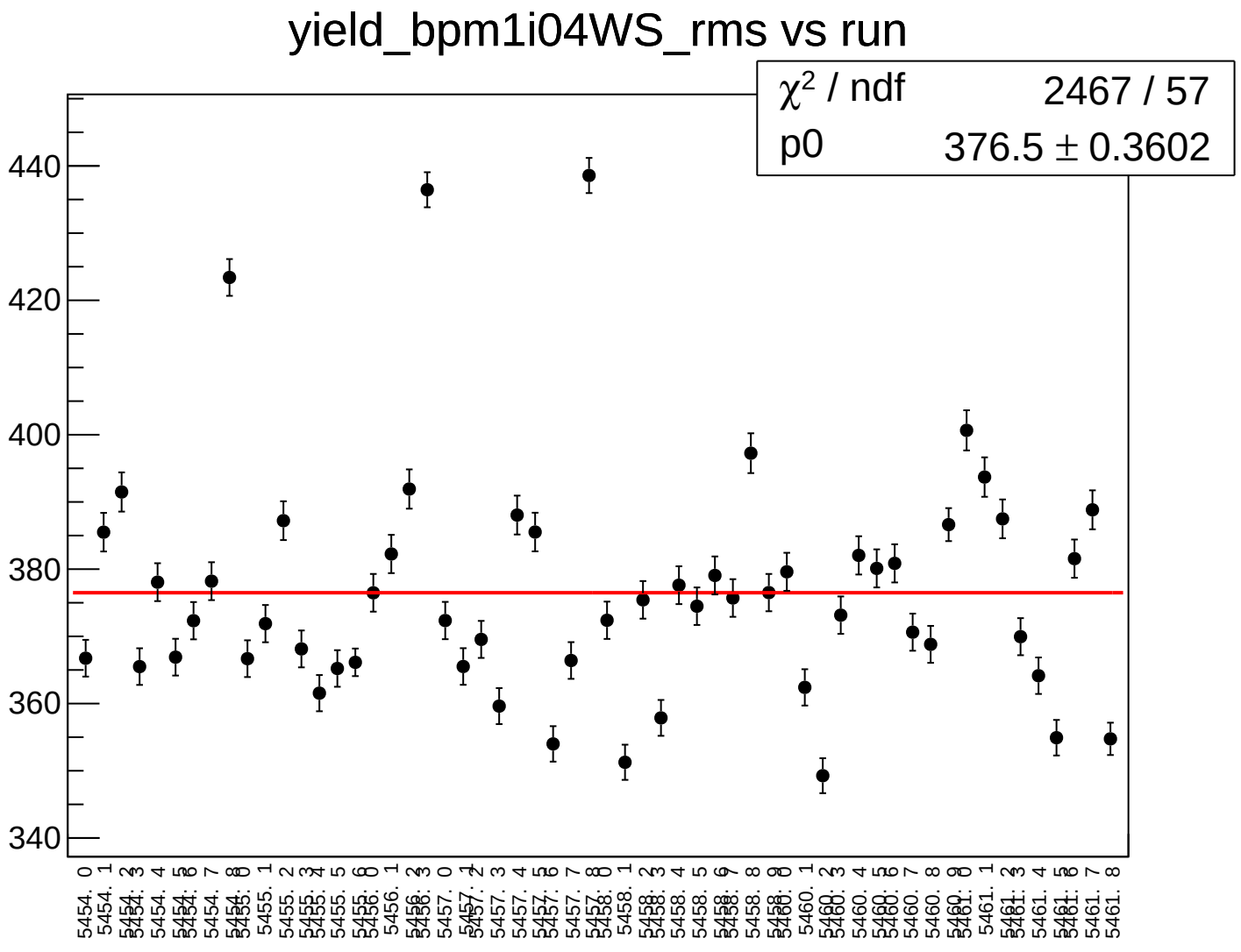

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.752e+04 / 57
p0 1.51e+05 ± 0.5653
151.2
151.15
151.1
151.05
151
150.95
150.9
150.85
150.8
pull
Entries 58
Mean 5.51e+04
Std Dev 5.507e+04
50
40
30
20
10
0
−10
−20
−30

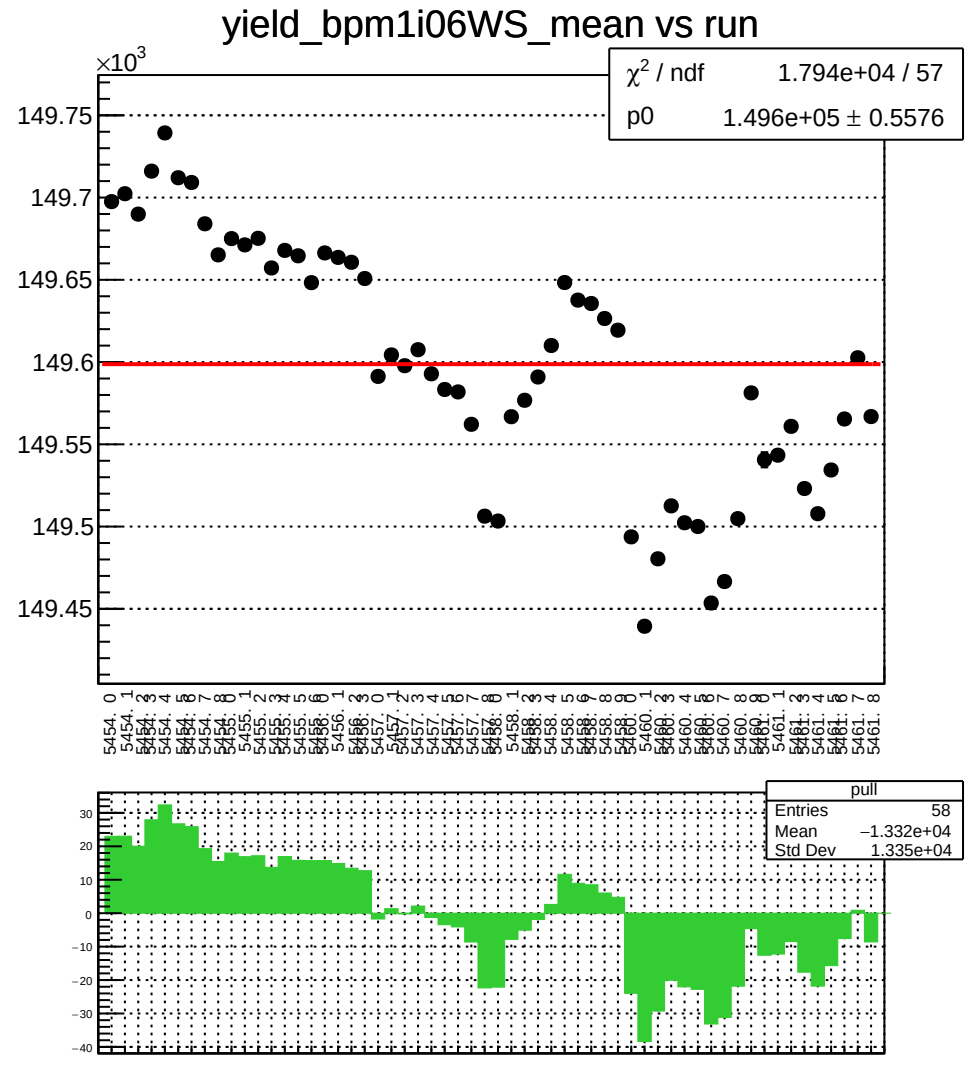

pull1D
Entries 58
Mean −3.287
Std Dev 2.571
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

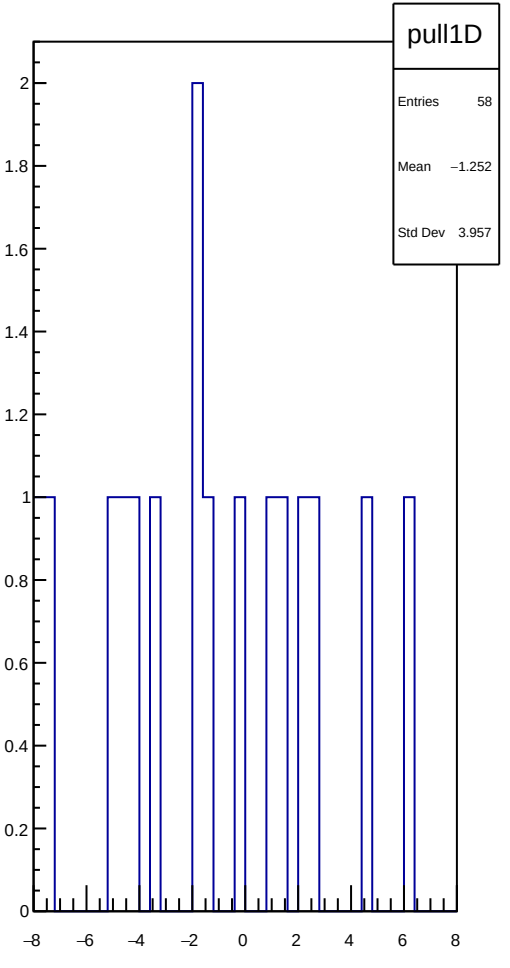

yield_bpm1i02WS_rms vs run
χ² / ndf 2948 / 57
p0 417.7 ± 0.3997
500
480
460
440
420
400
380

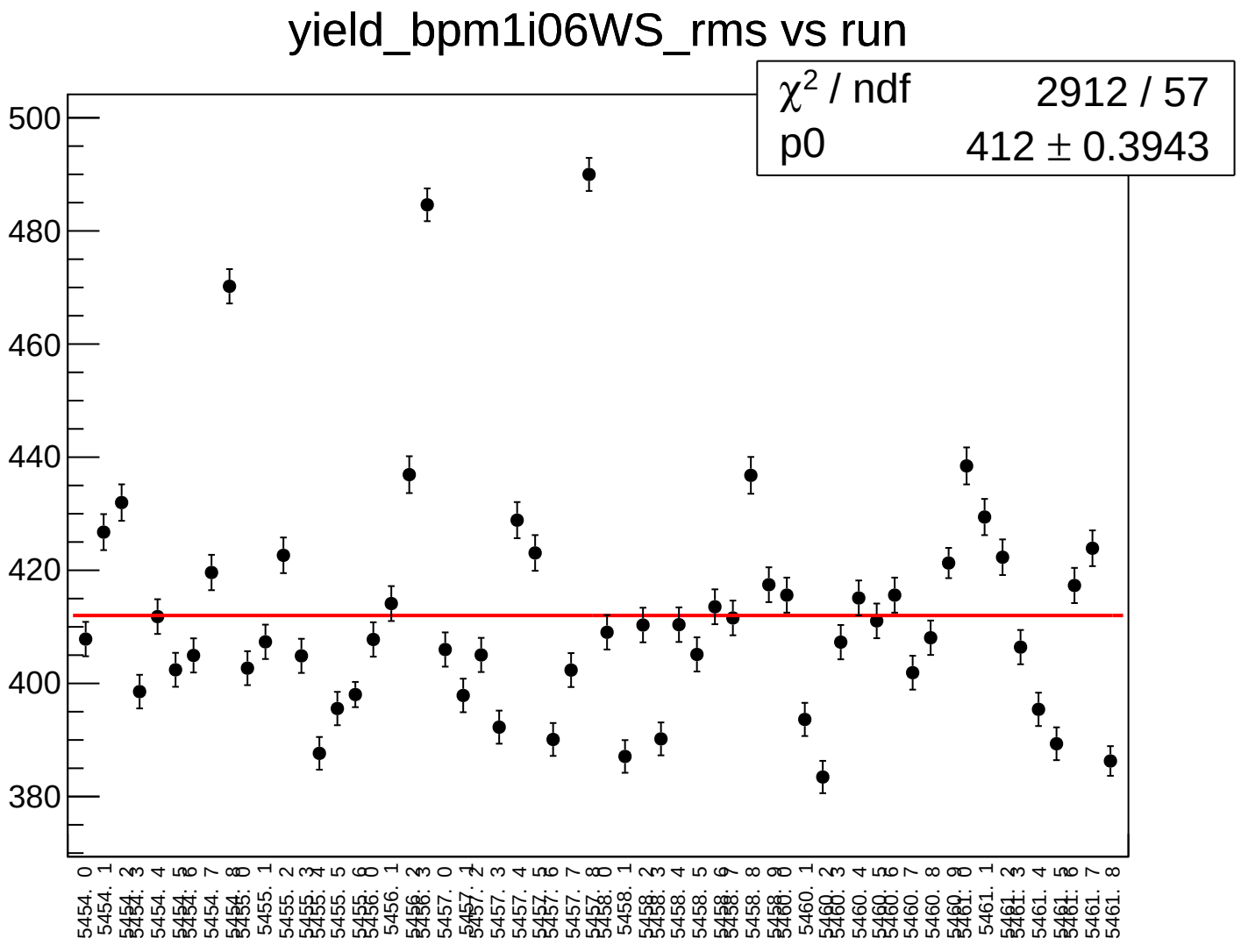

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 1.185e+04 / 57
p0 1.361e+05 ± 0.5094
136.25
136.2
136.15
136.1
136.05
136
pull
Entries 58
Mean −1.408e+04
Std Dev 1.417e+04
30
20
10
0
−10
−20

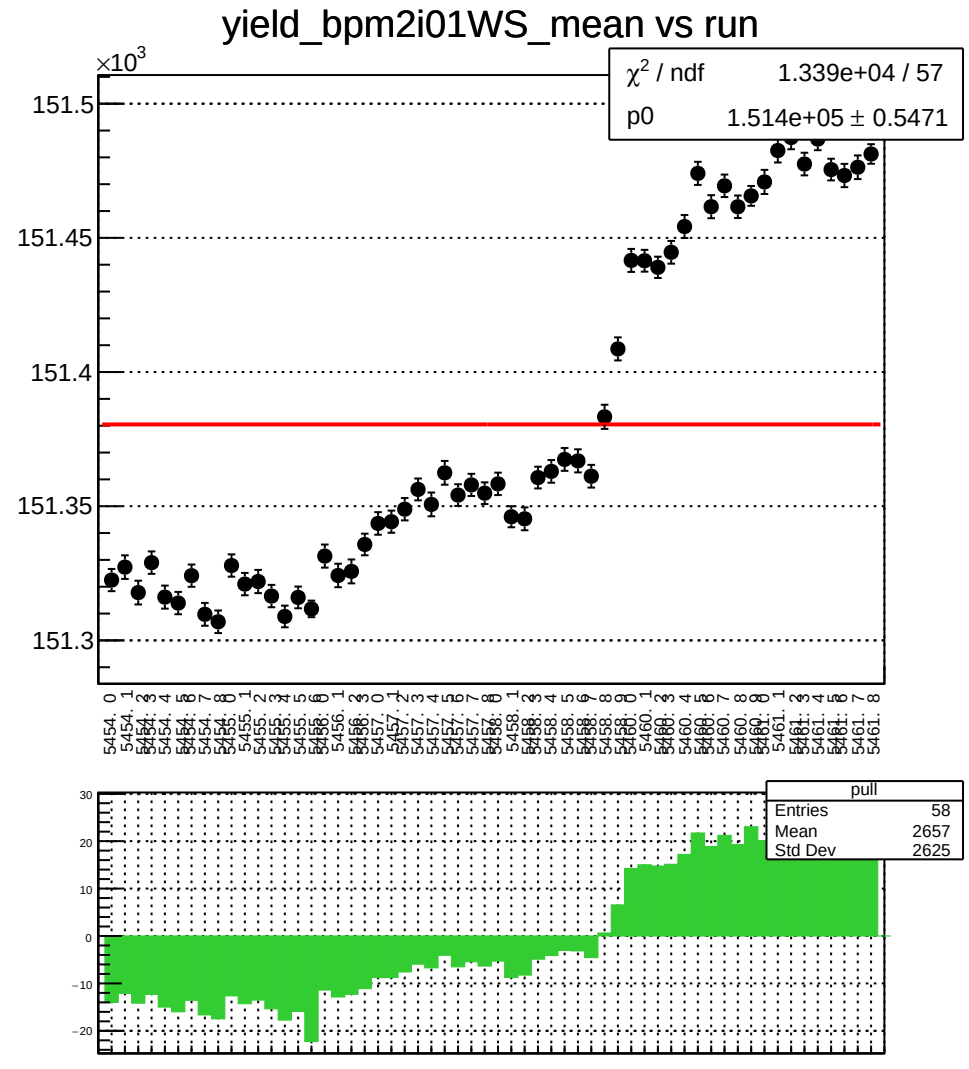

pull1D
Entries 58
Mean −0.4321
Std Dev 4.622
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

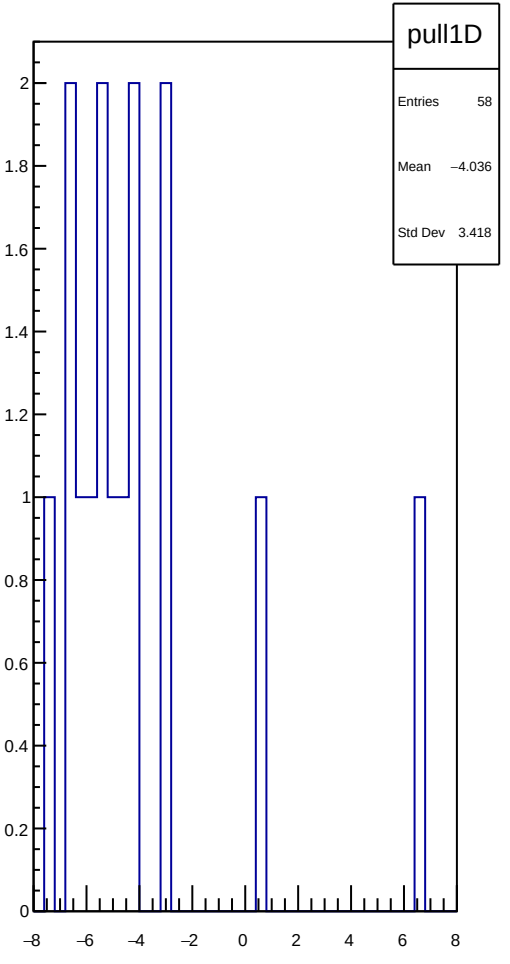

yield_bpm1i04WS_rms vs run
χ² / ndf 2467 / 57
p0 376.5 ± 0.3602
440
420
400
380
360
340

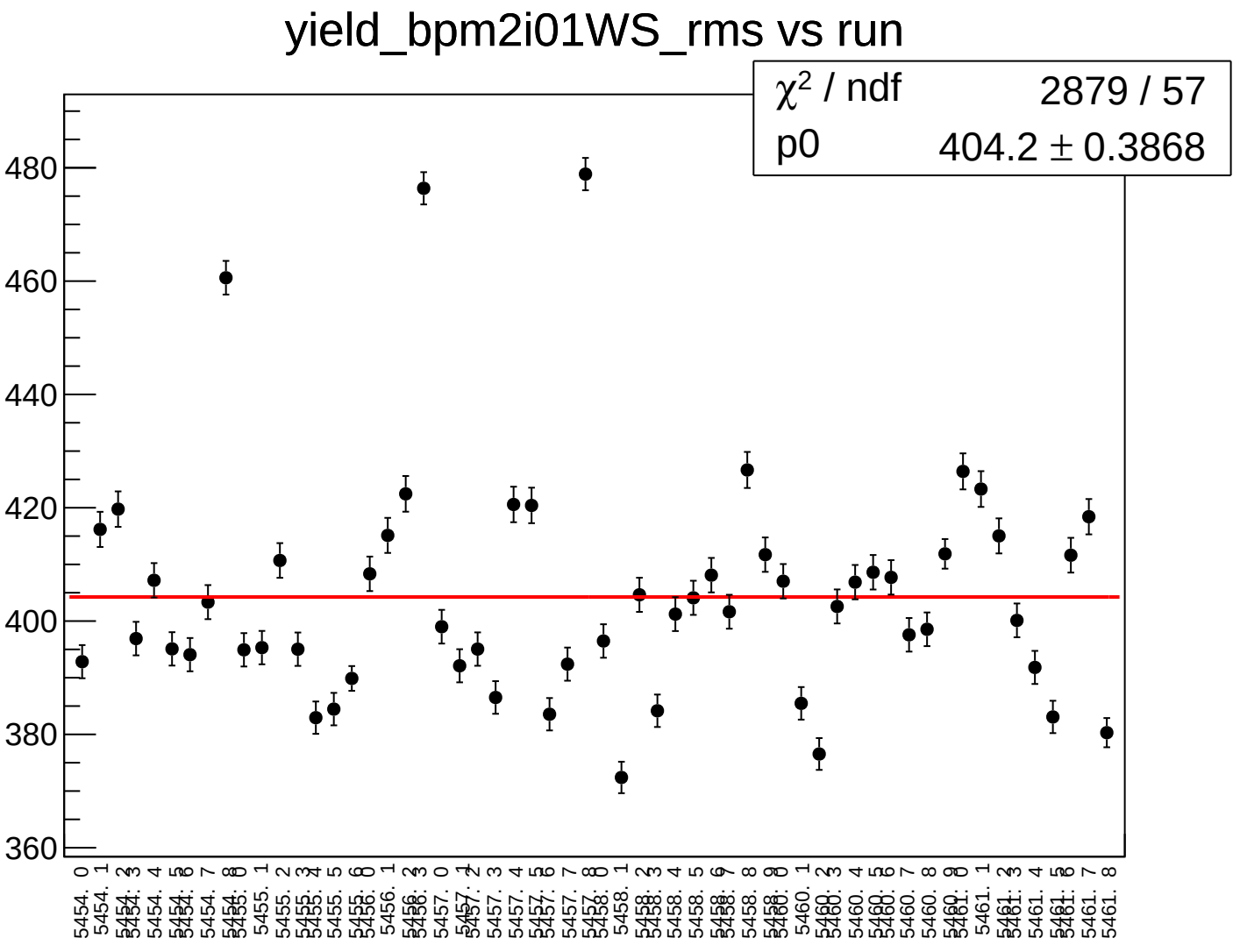

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.794e+04 / 57
p0 1.496e+05 ± 0.5576
149.75
149.7
149.65
149.6
149.55
149.5
149.45
pull
Entries 58
Mean −1.332e+04
Std Dev 1.335e+04
30
20
10
0
−10
−20
−30
−40

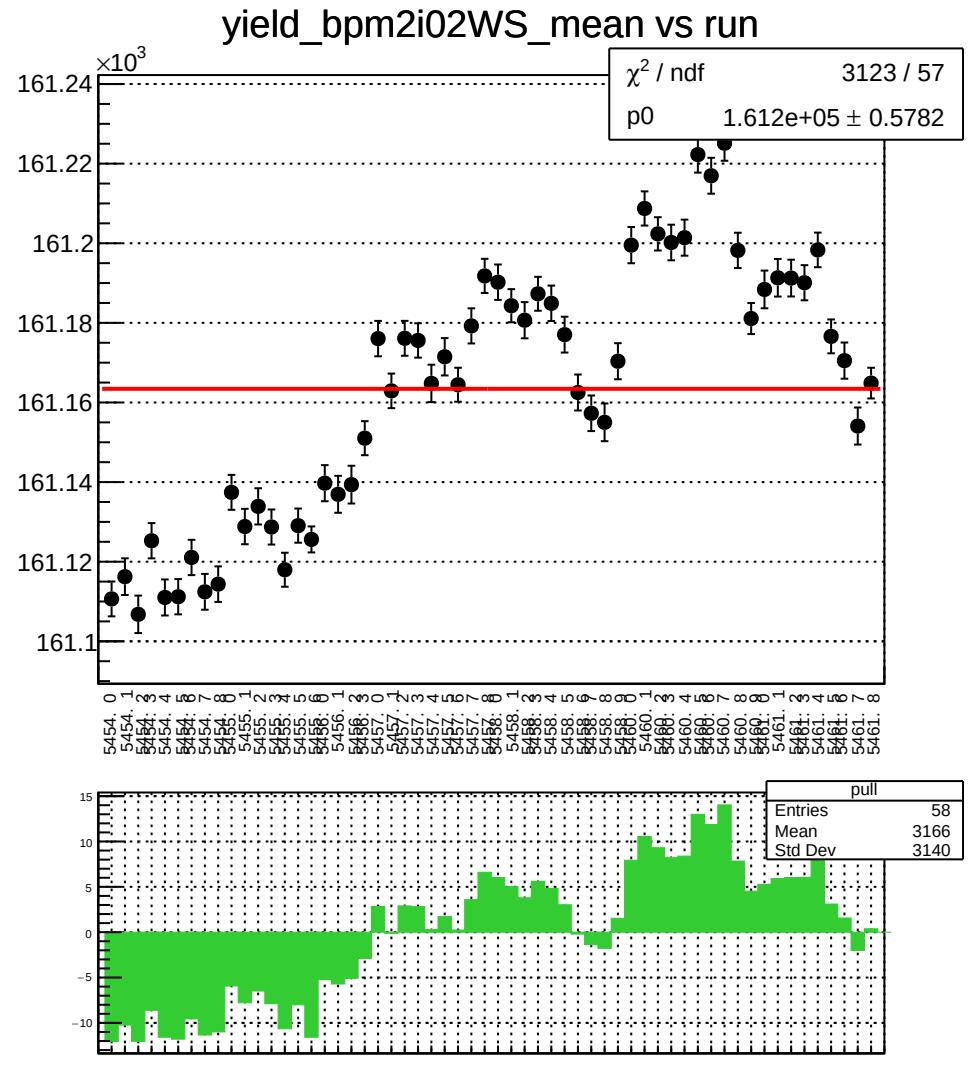

pull1D
Entries 58
Mean −1.252
Std Dev 3.957
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

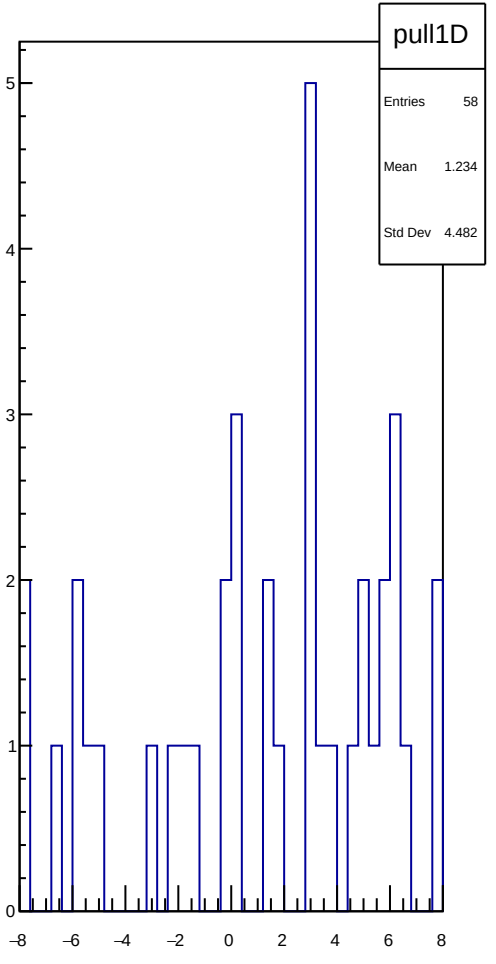

yield_bpm1i06WS_rms vs run
χ² / ndf 2912 / 57
p0 412 ± 0.3943
500
480
460
440
420
400
380

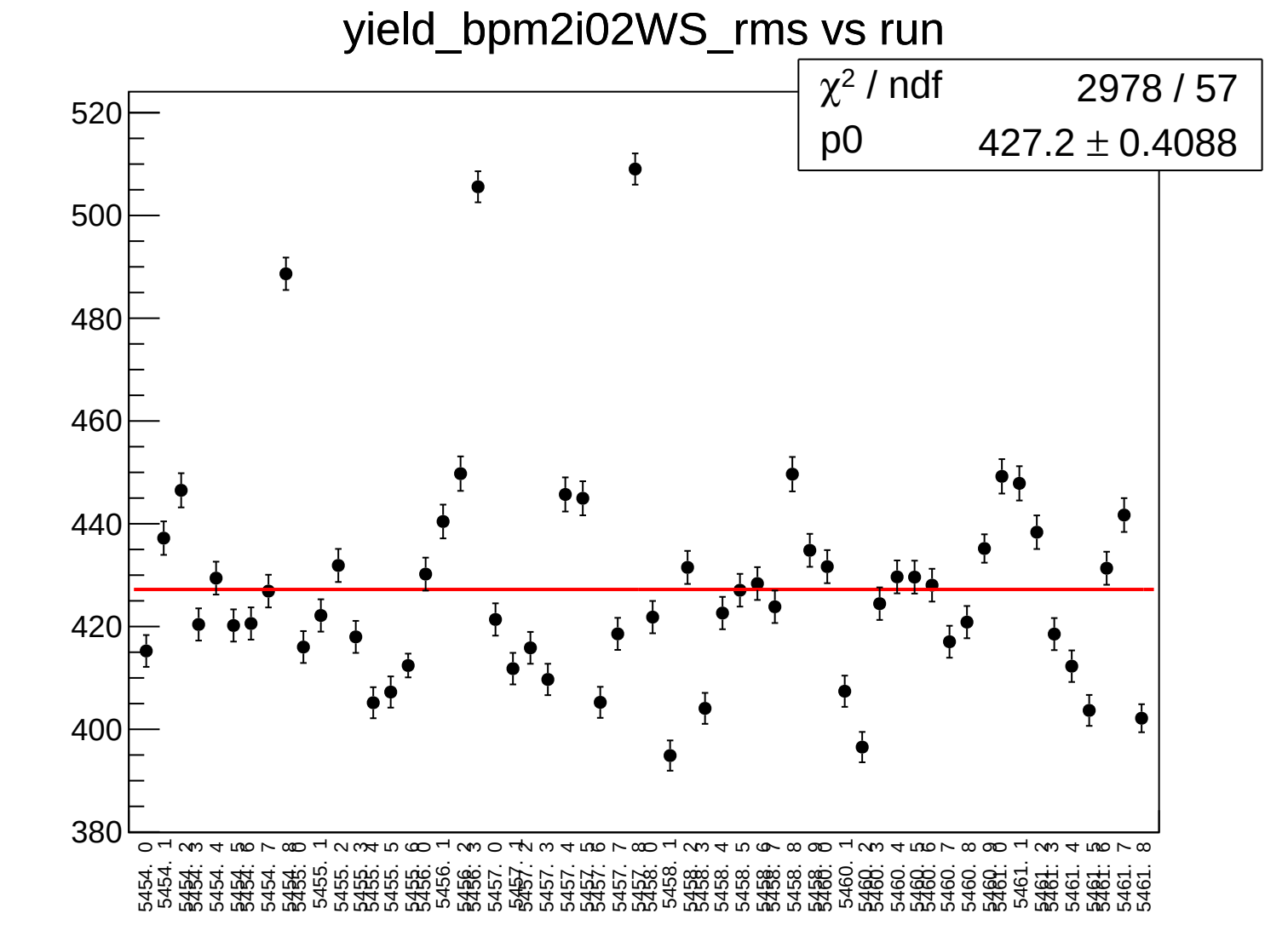

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 1.339e+04 / 57
p0 1.514e+05 ± 0.5471
151.5
151.45
151.4
151.35
151.3
pull
Entries 58
Mean 2657
Std Dev 2625
30
20
10
0
−10
−20

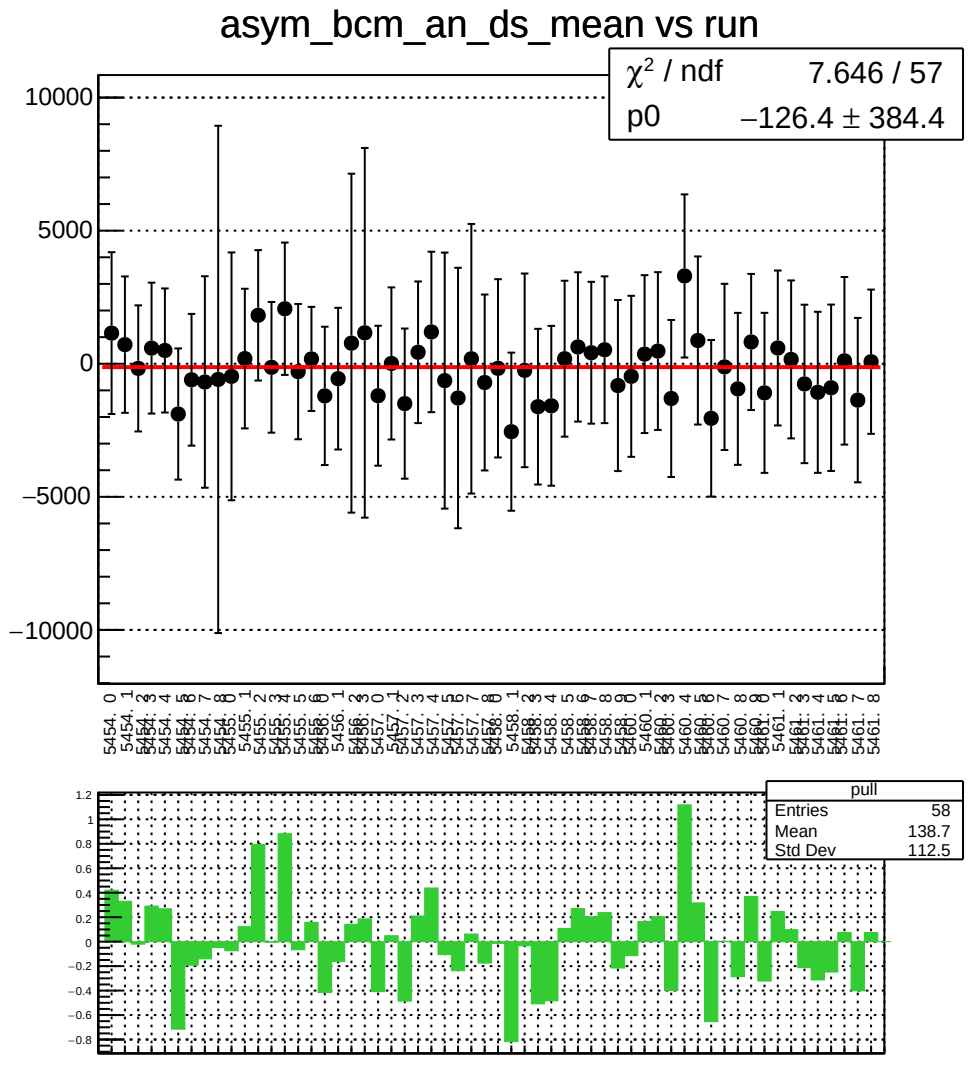

pull1D
Entries 58
Mean −4.036
Std Dev 3.418
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

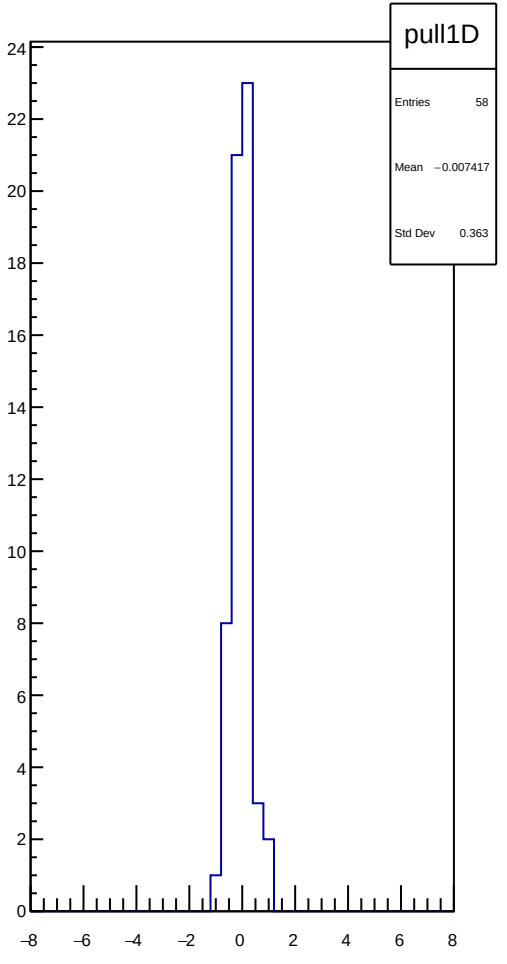

yield_bpm2i01WS_rms vs run
χ² / ndf 2879 / 57
p0 404.2 ± 0.3868
480
460
440
420
400
380
360

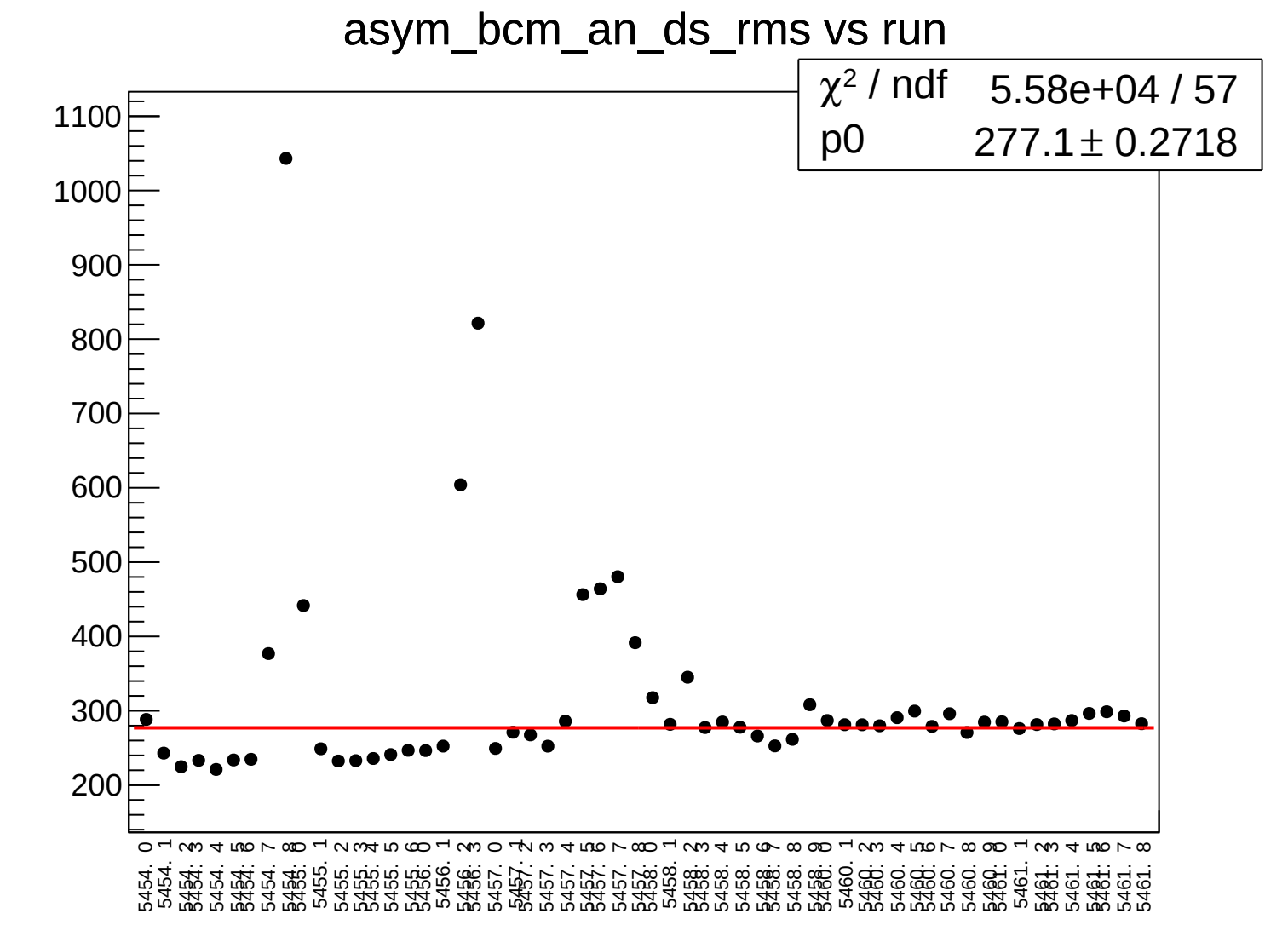

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3123 / 57
p0 1.612e+05 ± 0.5782
161.24
161.22
161.2
161.18
161.16
161.14
161.12
161.1
pull
Entries 58
Mean 3166
Std Dev 3140
15
10
5
0
−5
−10

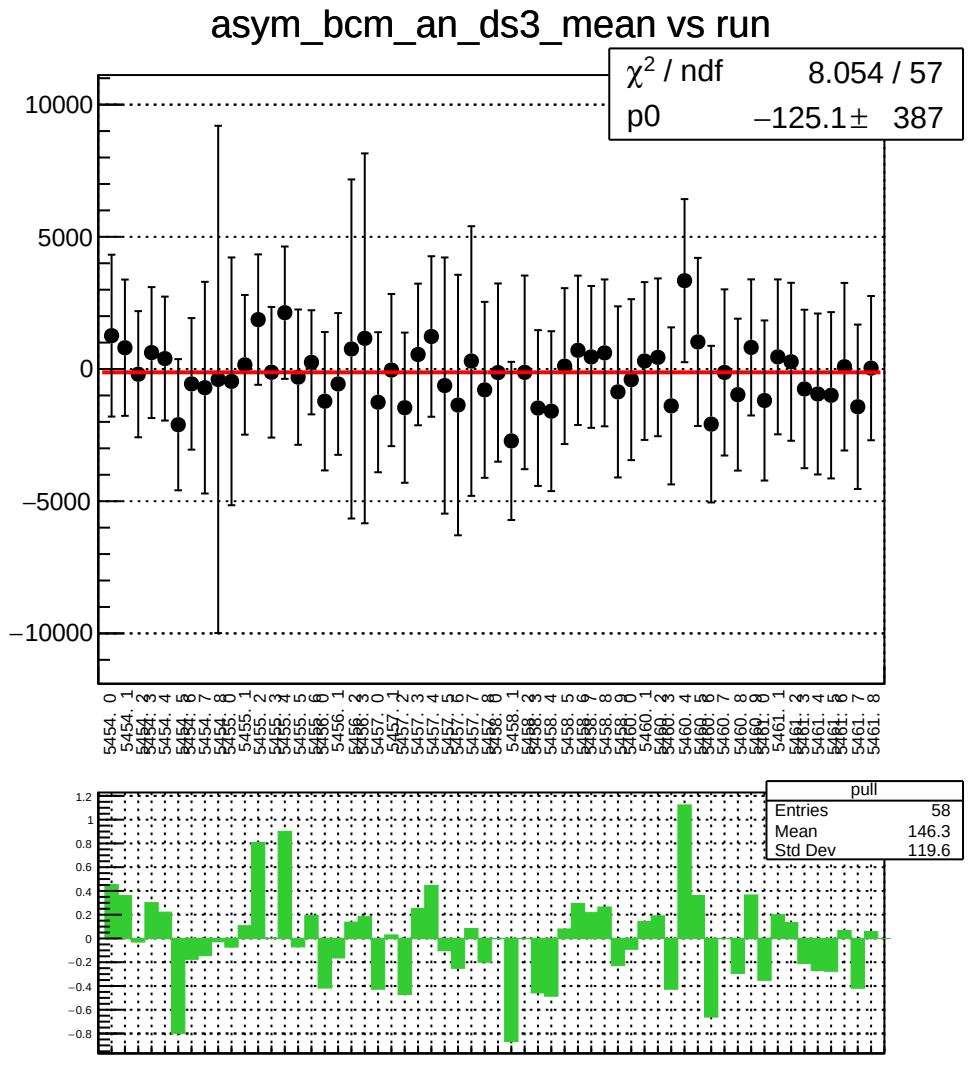

pull1D
Entries 58
Mean 1.234
Std Dev 4.482
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

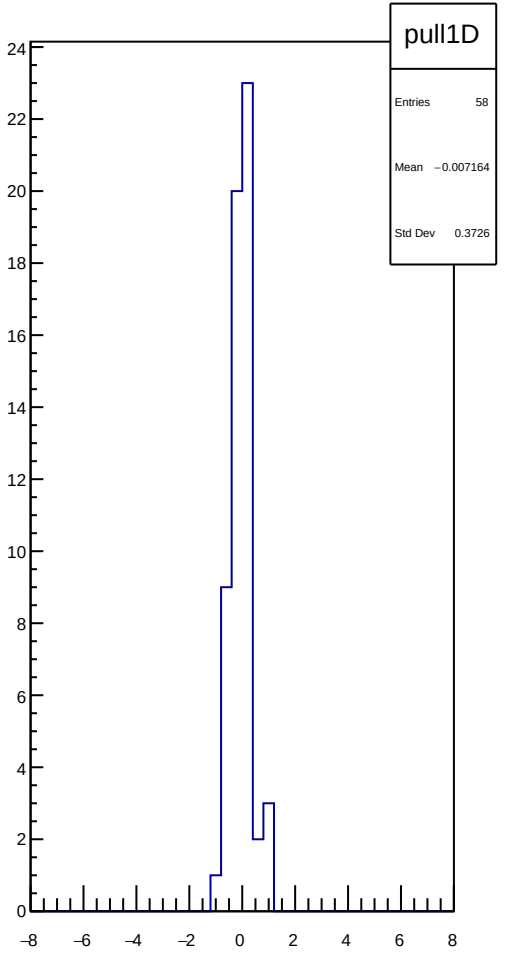

yield_bpm2i02WS_rms vs run
χ² / ndf 2978 / 57
p0 427.2 ± 0.4088
520
500
480
460
440
420
400
380

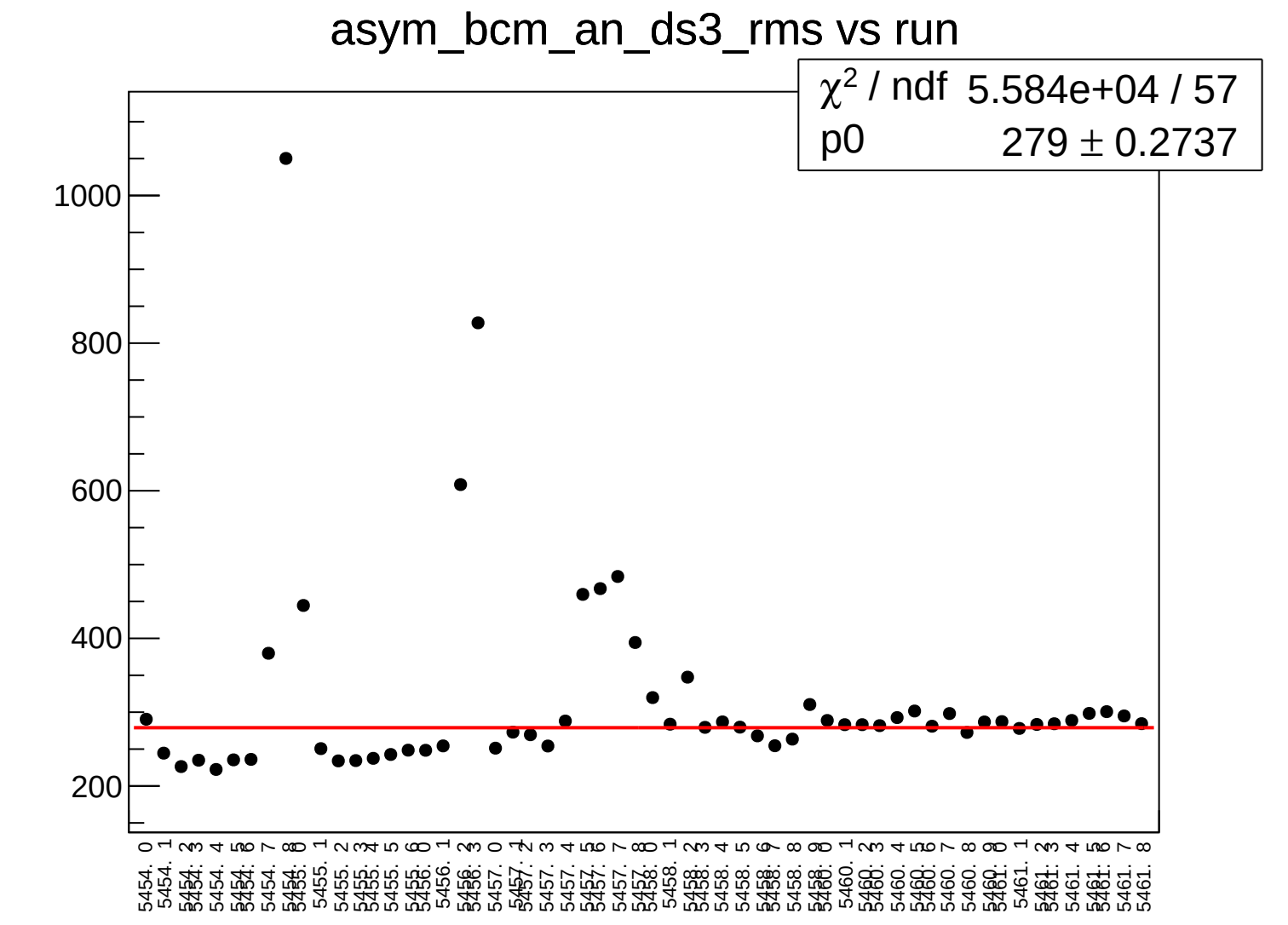

asym_bcm_an_ds_mean vs run
χ² / ndf 7.646 / 57
p0 −126.4 ± 384.4
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 138.7
Std Dev 112.5
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

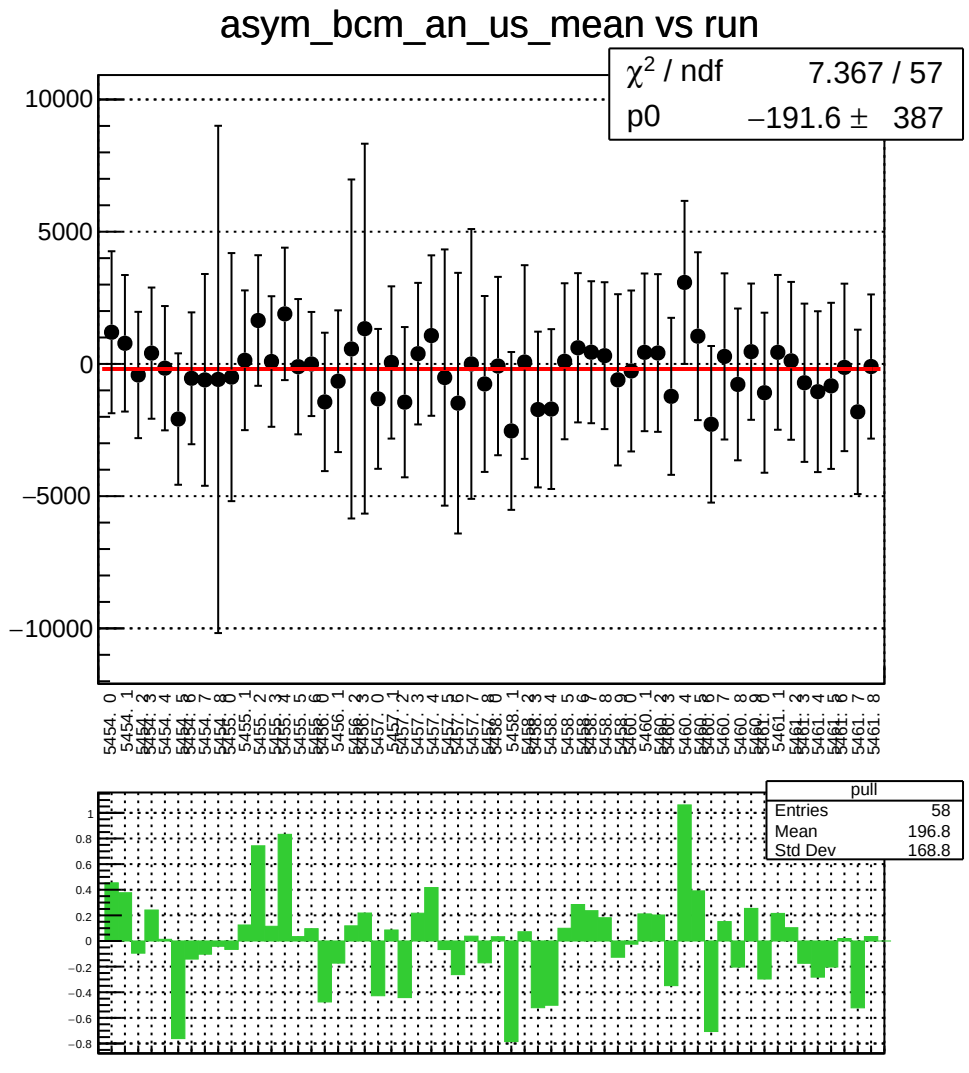

pull1D
Entries 58
Mean −0.007417
Std Dev 0.363
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

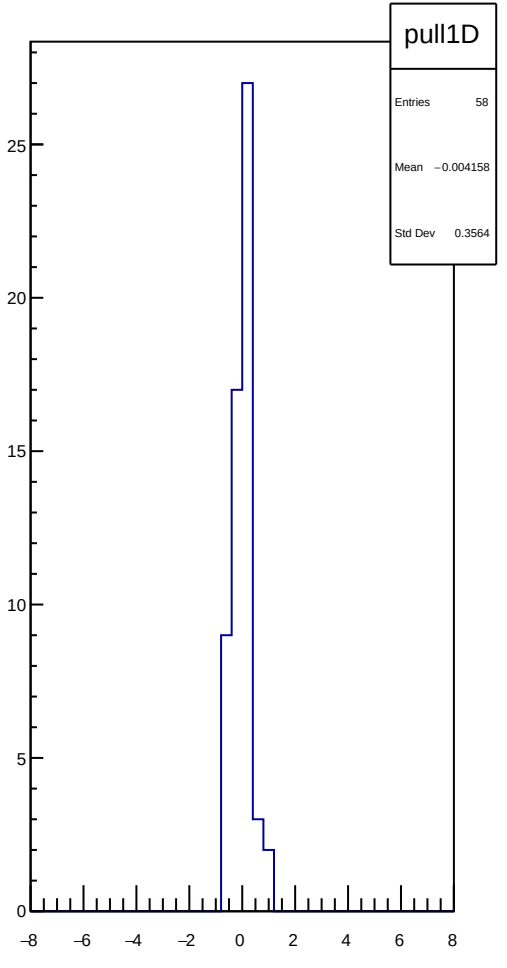

asym_bcm_an_ds_rms vs run
χ² / ndf 5.58e+04 / 57
p0 277.1 ± 0.2718
1100
1000
900
800
700
600
500
400
300
200

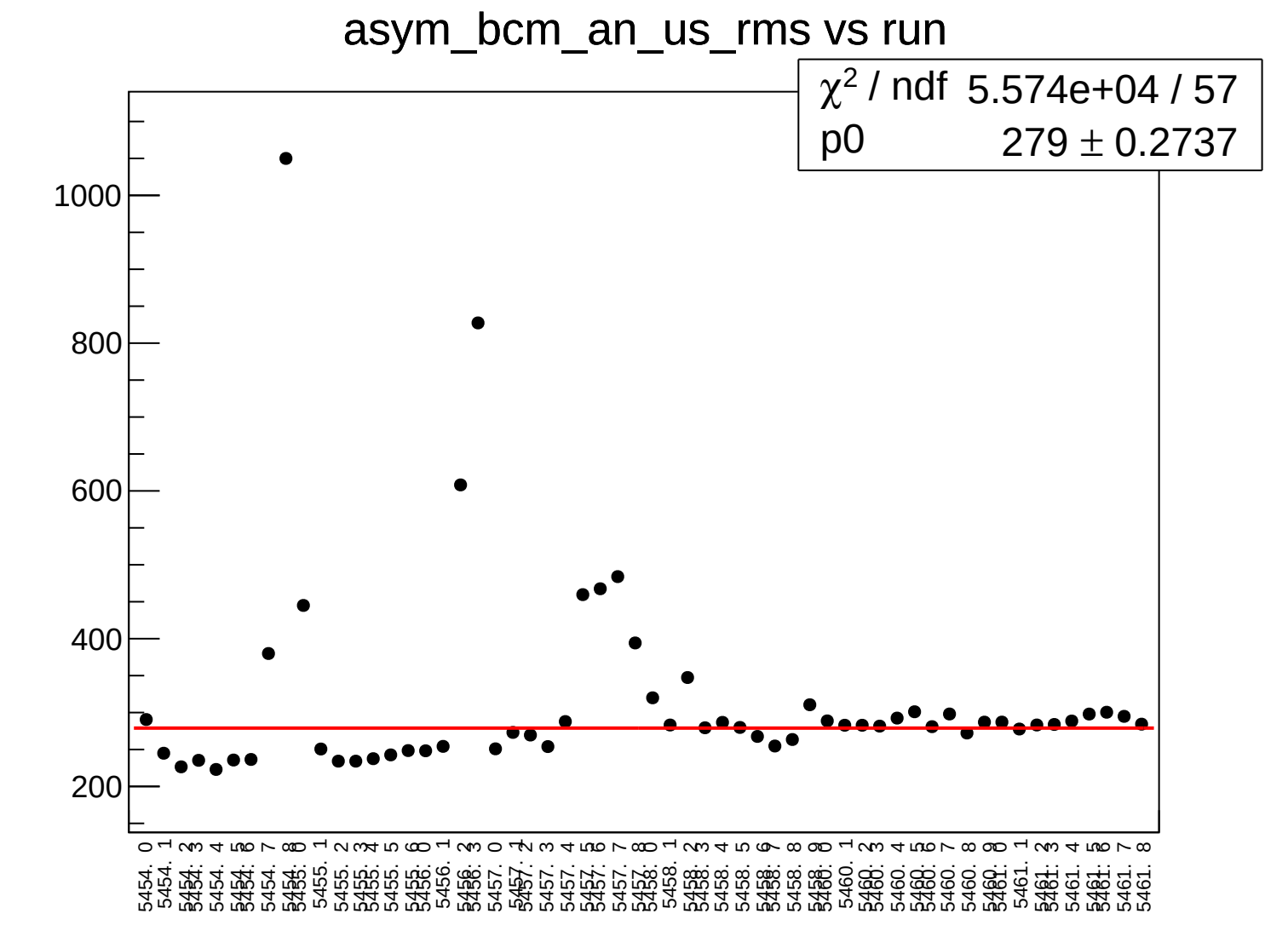

asym_bcm_an_ds3_mean vs run
χ² / ndf 8.054 / 57
p0 −125.1± 387
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 146.3
Std Dev 119.6
1.2
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

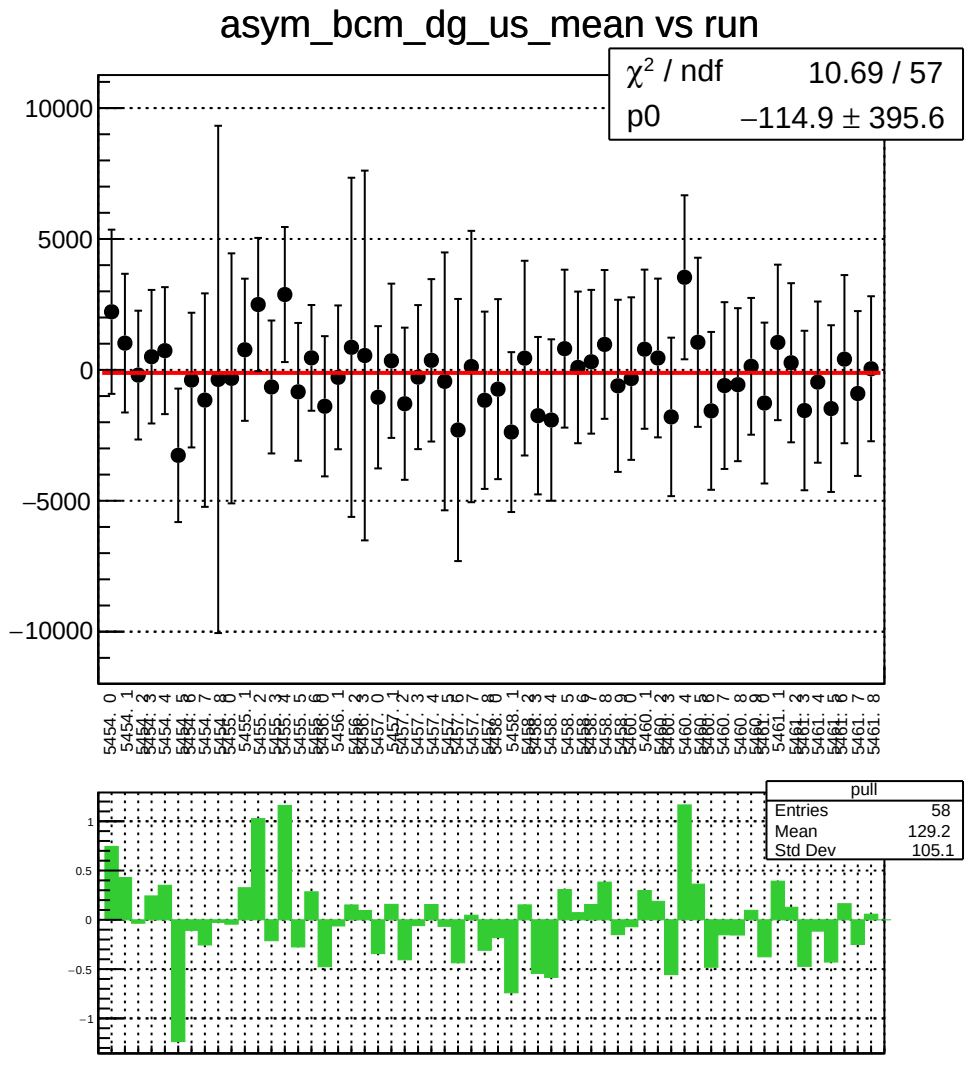

pull1D
Entries 58
Mean −0.007164
Std Dev 0.3726
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

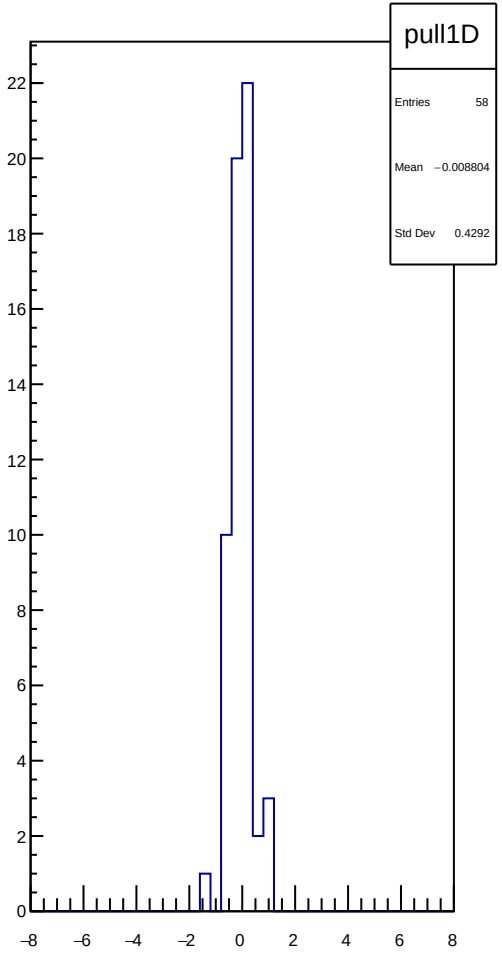

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 5.584e+04 / 57
p0 279 ± 0.2737
1000
800
600
400
200

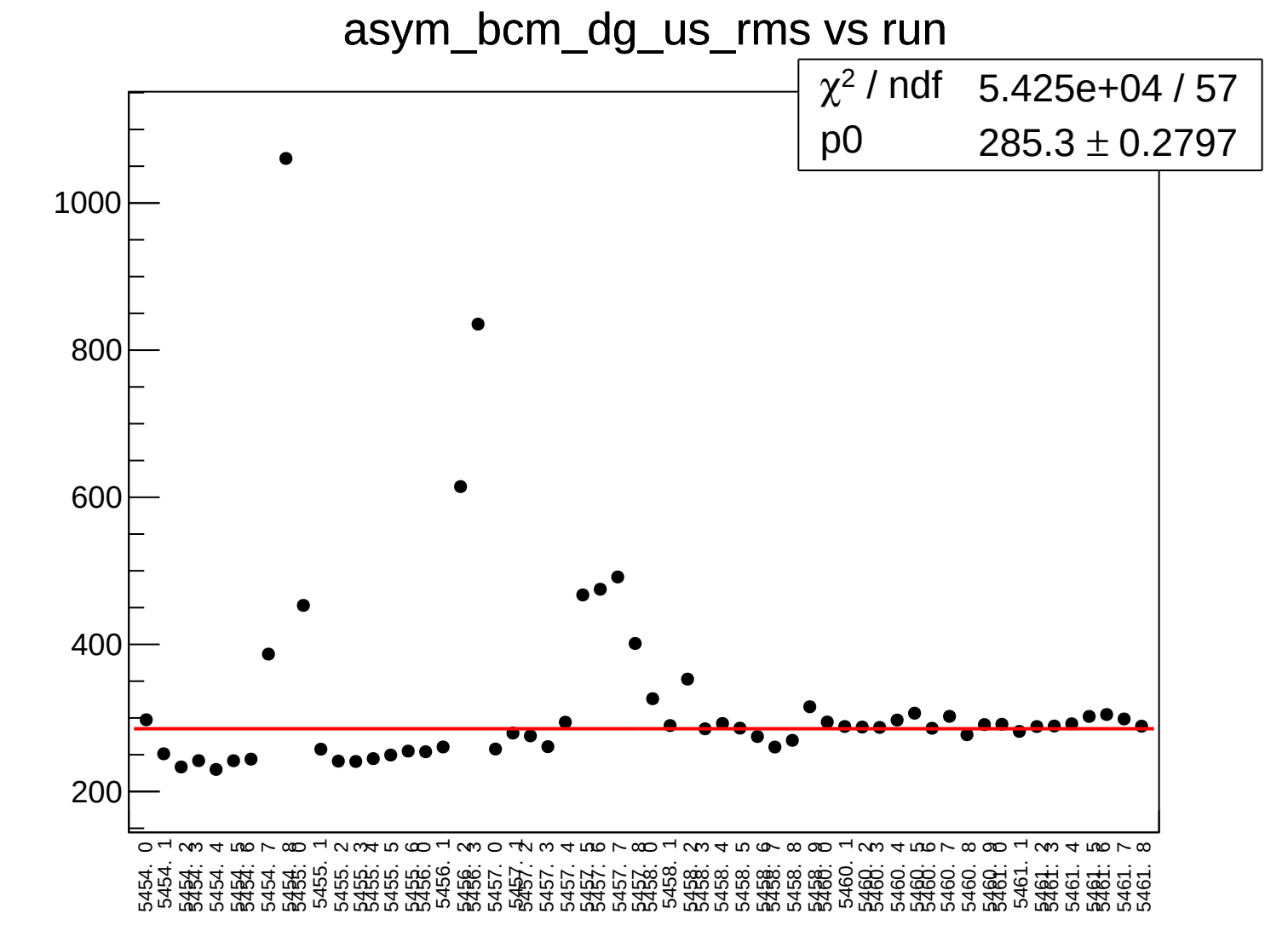

asym_bcm_an_us_mean vs run
χ² / ndf 7.367 / 57
p0 −191.6 ± 387
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 196.8
Std Dev 168.8
1
0.8
0.6
0.4
0.2
0
−0.2
−0.4
−0.6
−0.8

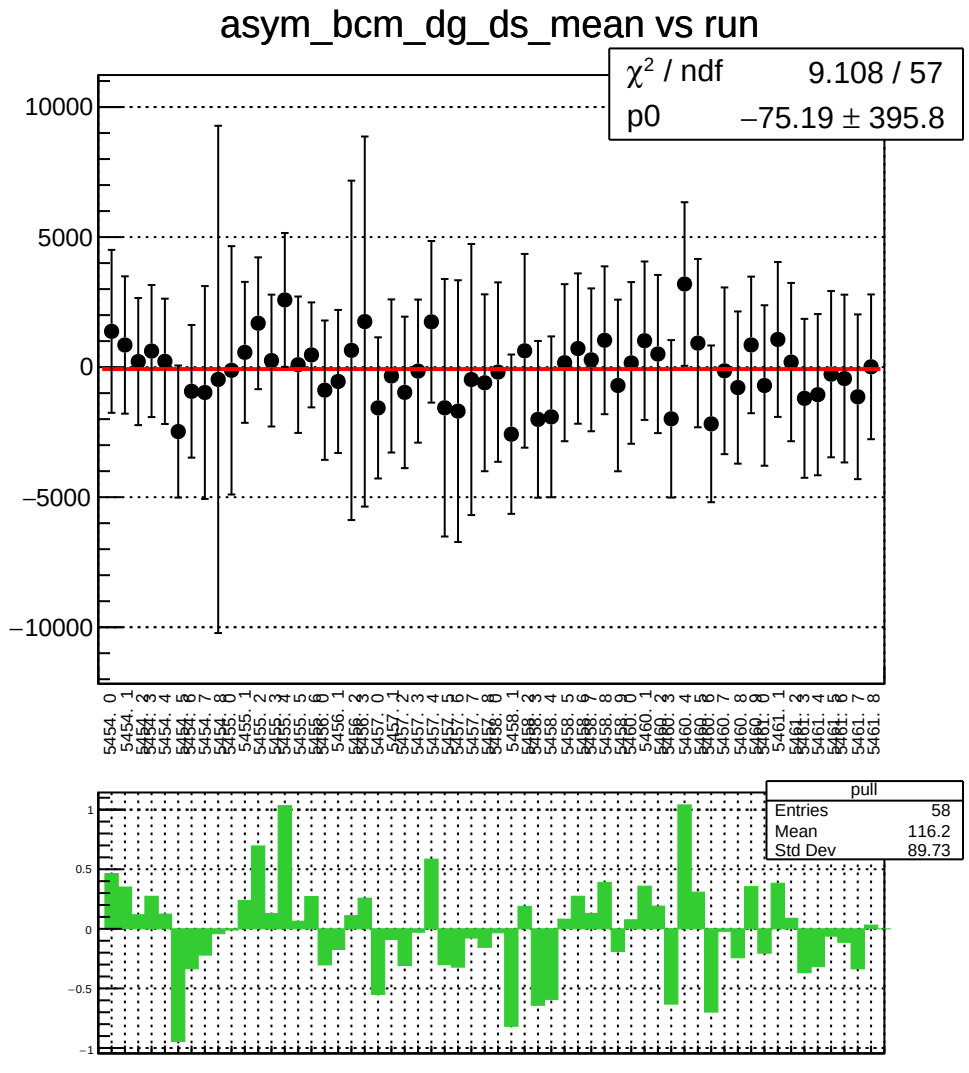

pull1D
Entries 58
Mean −0.004158
Std Dev 0.3564
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

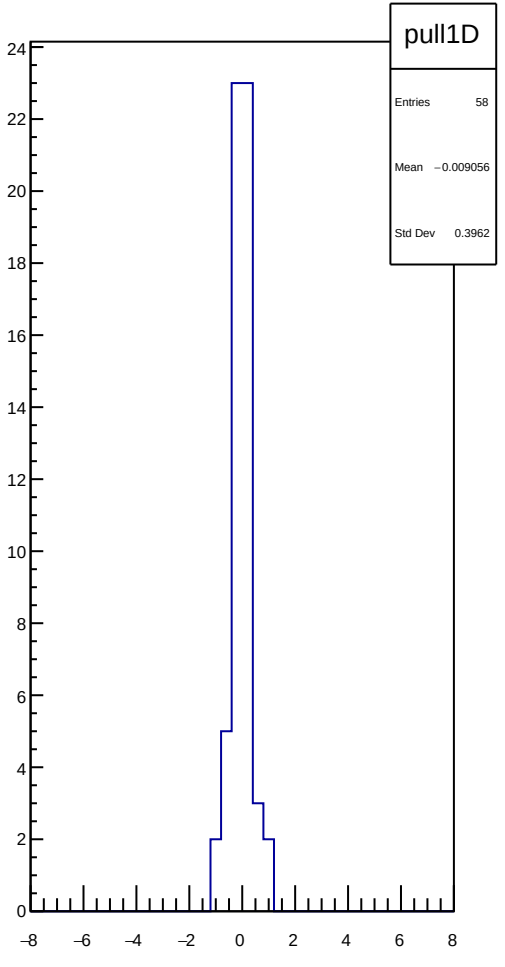

asym_bcm_an_us_rms vs run
χ² / ndf 5.574e+04 / 57
p0 279 ± 0.2737
1000
800
600
400
200

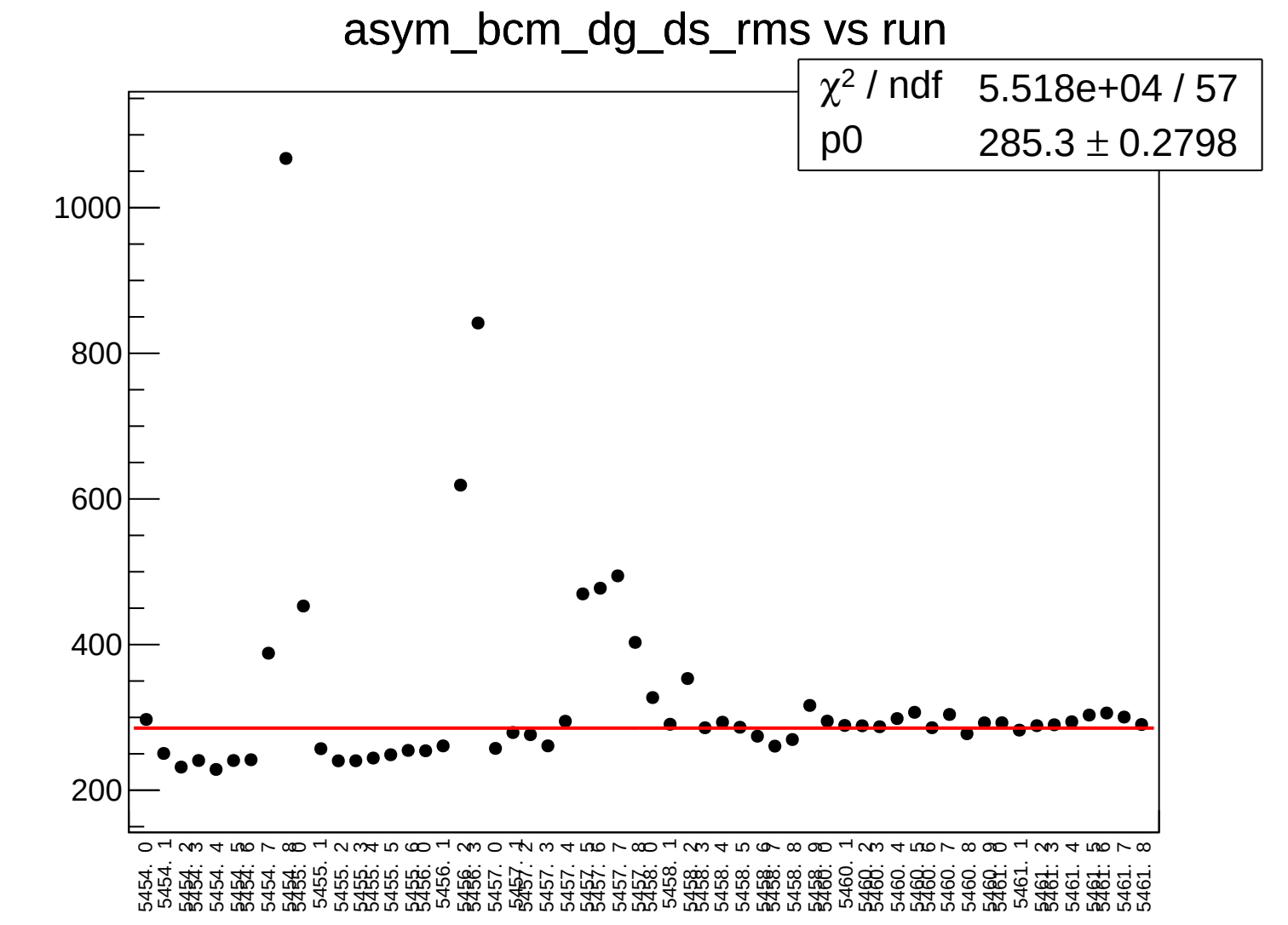

asym_bcm_dg_us_mean vs run
χ² / ndf 10.69 / 57
p0 −114.9 ± 395.6
pull
Entries 58
Mean 129.2
Std Dev 105.1

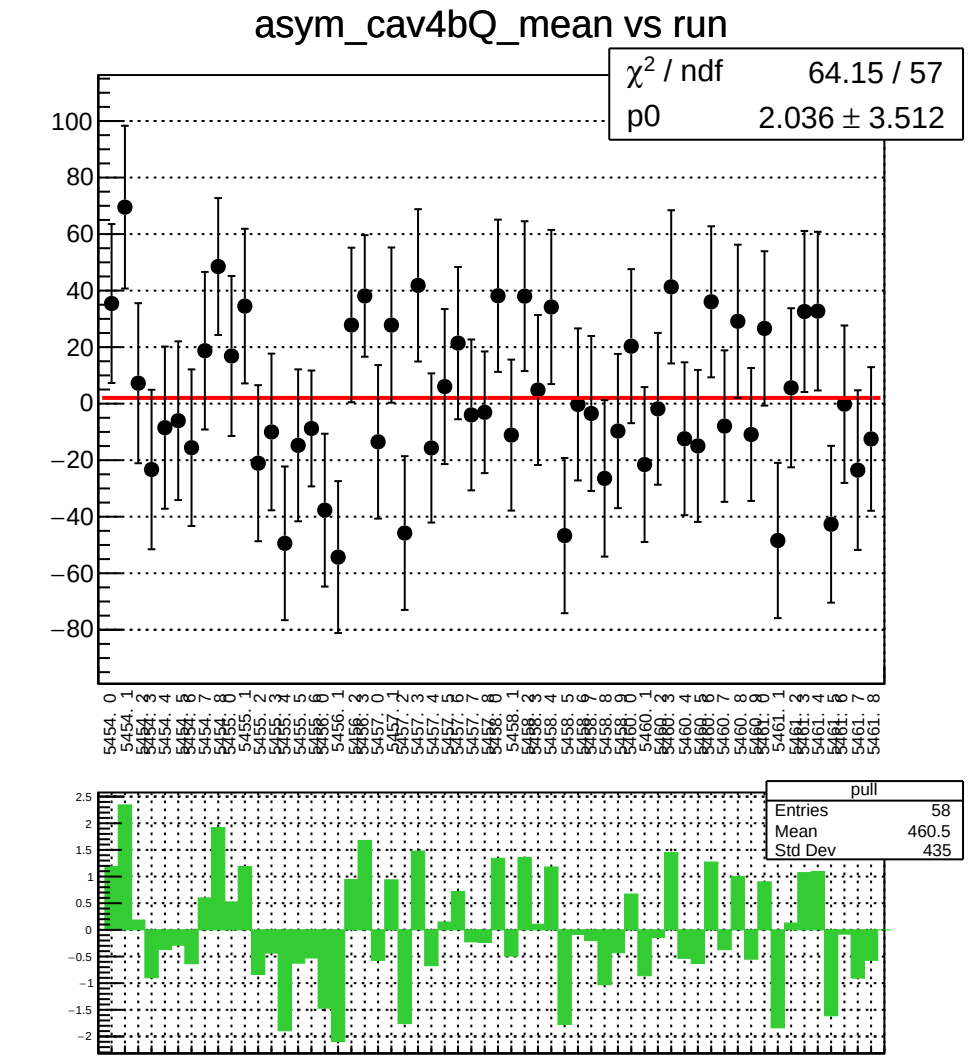

pull1D
Entries 58
Mean −0.008804
Std Dev 0.4292

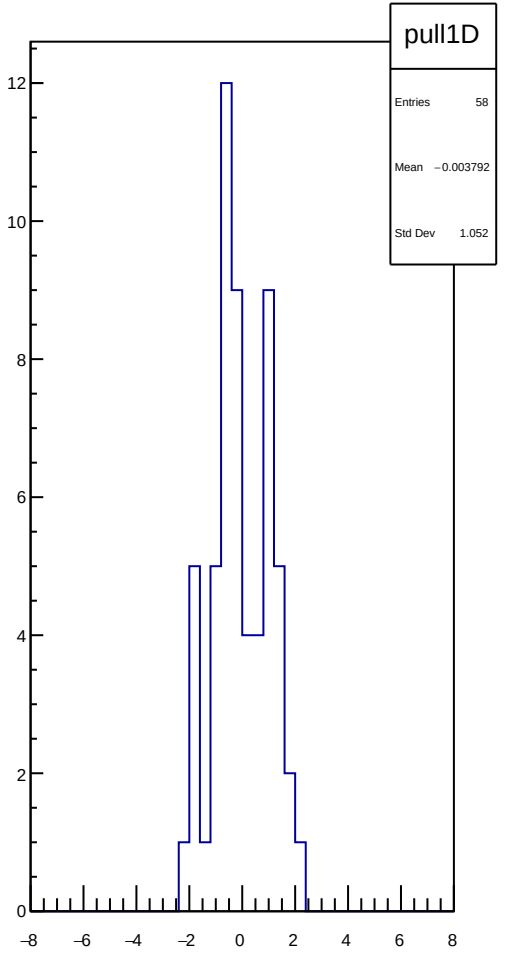

asym_bcm_dg_us_rms vs run
χ² / ndf 5.425e+04 / 57
p0 285.3 ± 0.2797
1000
800
600
400
200

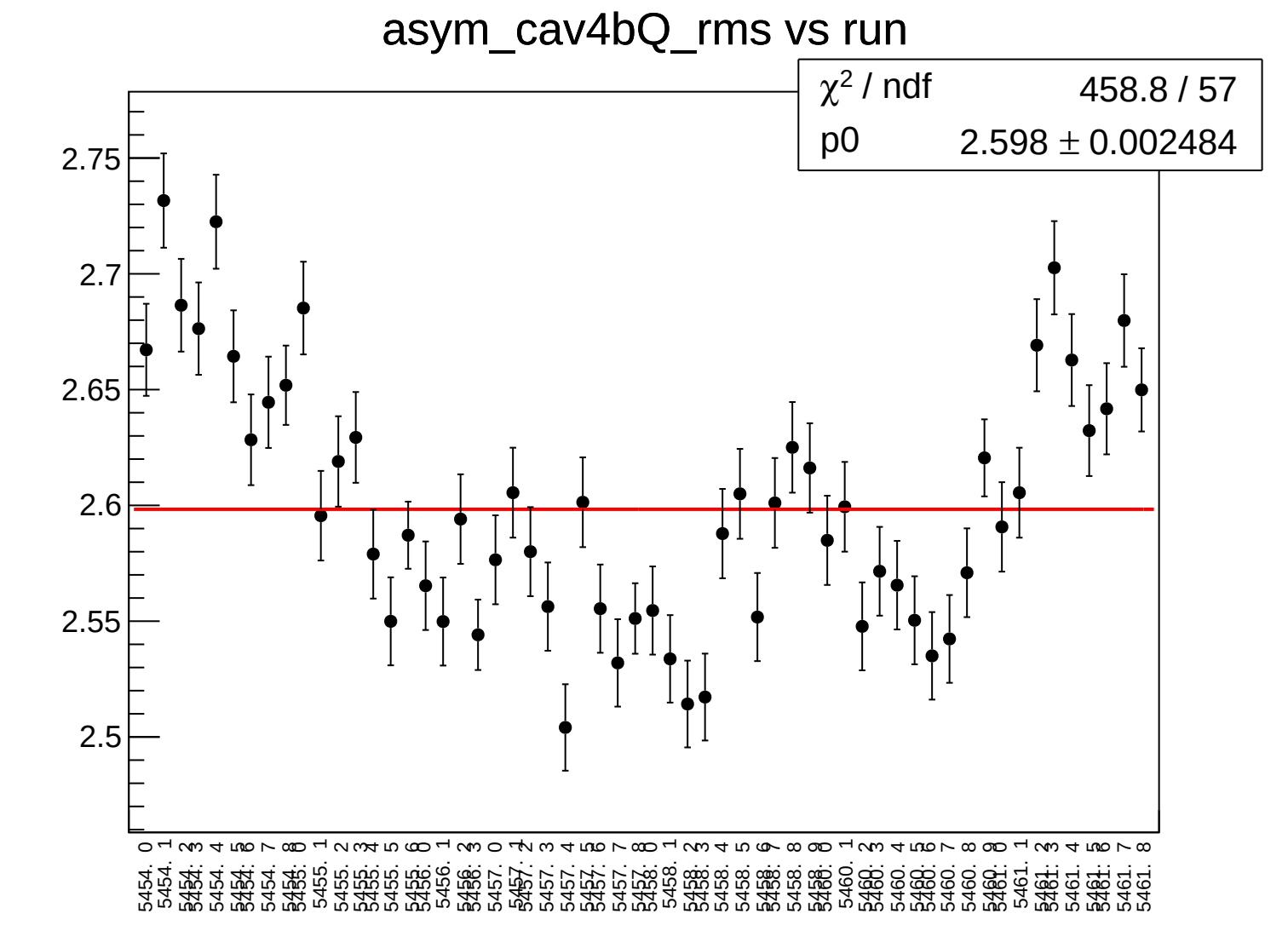

asym_bcm_dg_ds_mean vs run
χ² / ndf 9.108 / 57
p0 −75.19 ± 395.8
pull
Entries 58
Mean 116.2
Std Dev 89.73

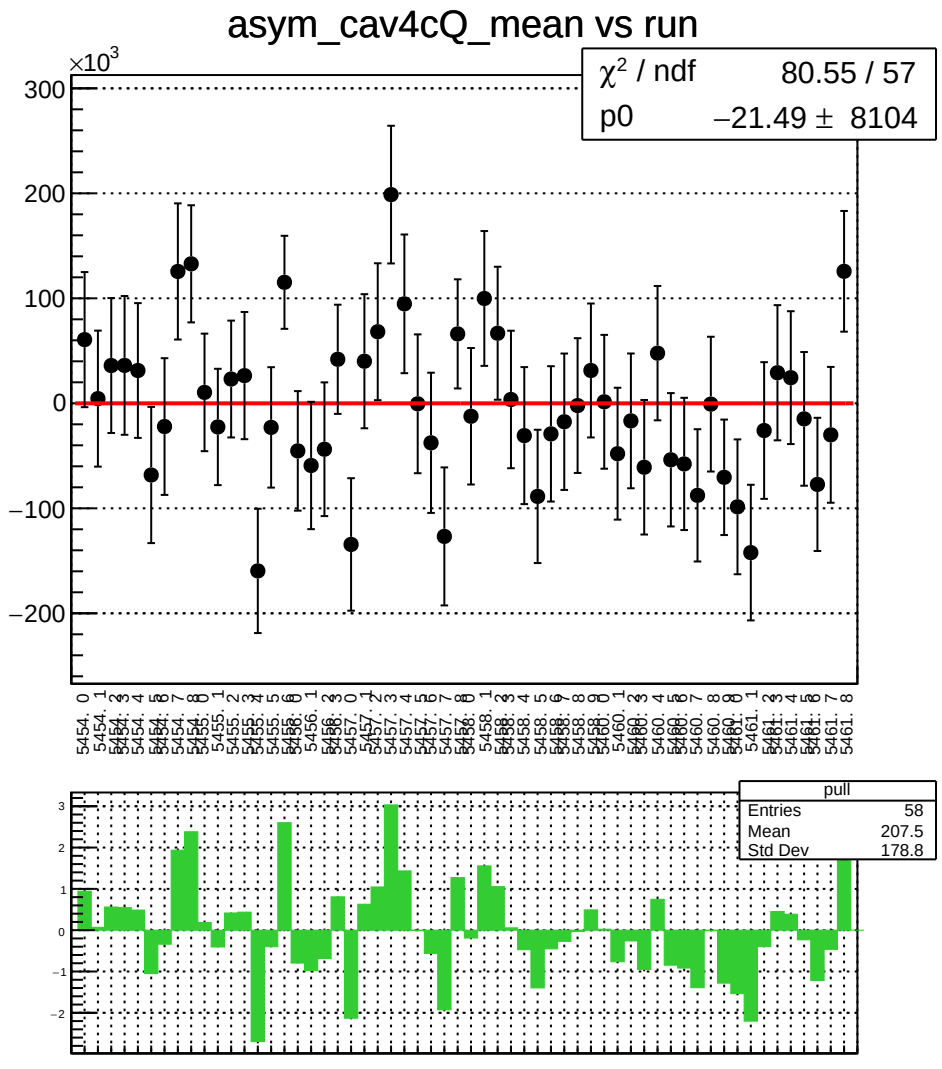

pull1D
Entries 58
Mean −0.009056
Std Dev 0.3962

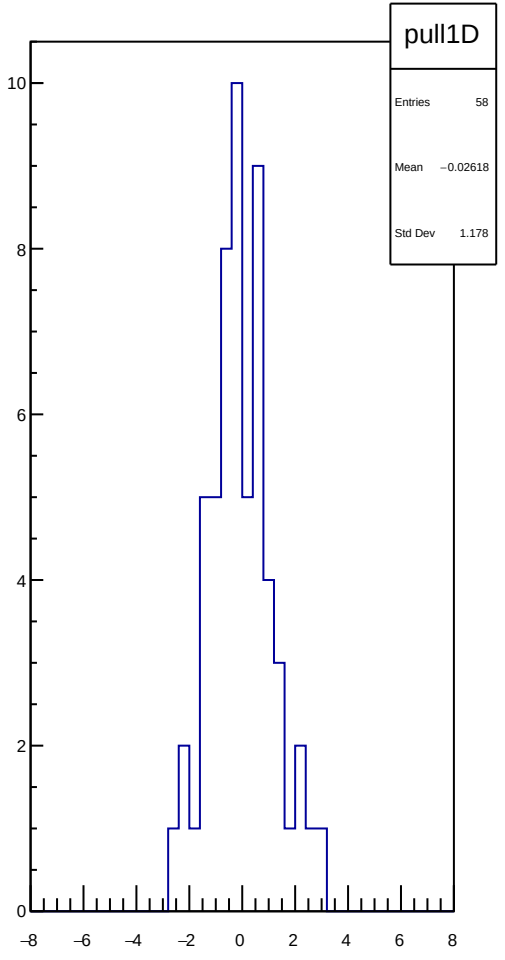

asym_bcm_dg_ds_rms vs run
χ² / ndf 5.518e+04 / 57
p0 285.3 ± 0.2798
1000
800
600
400
200

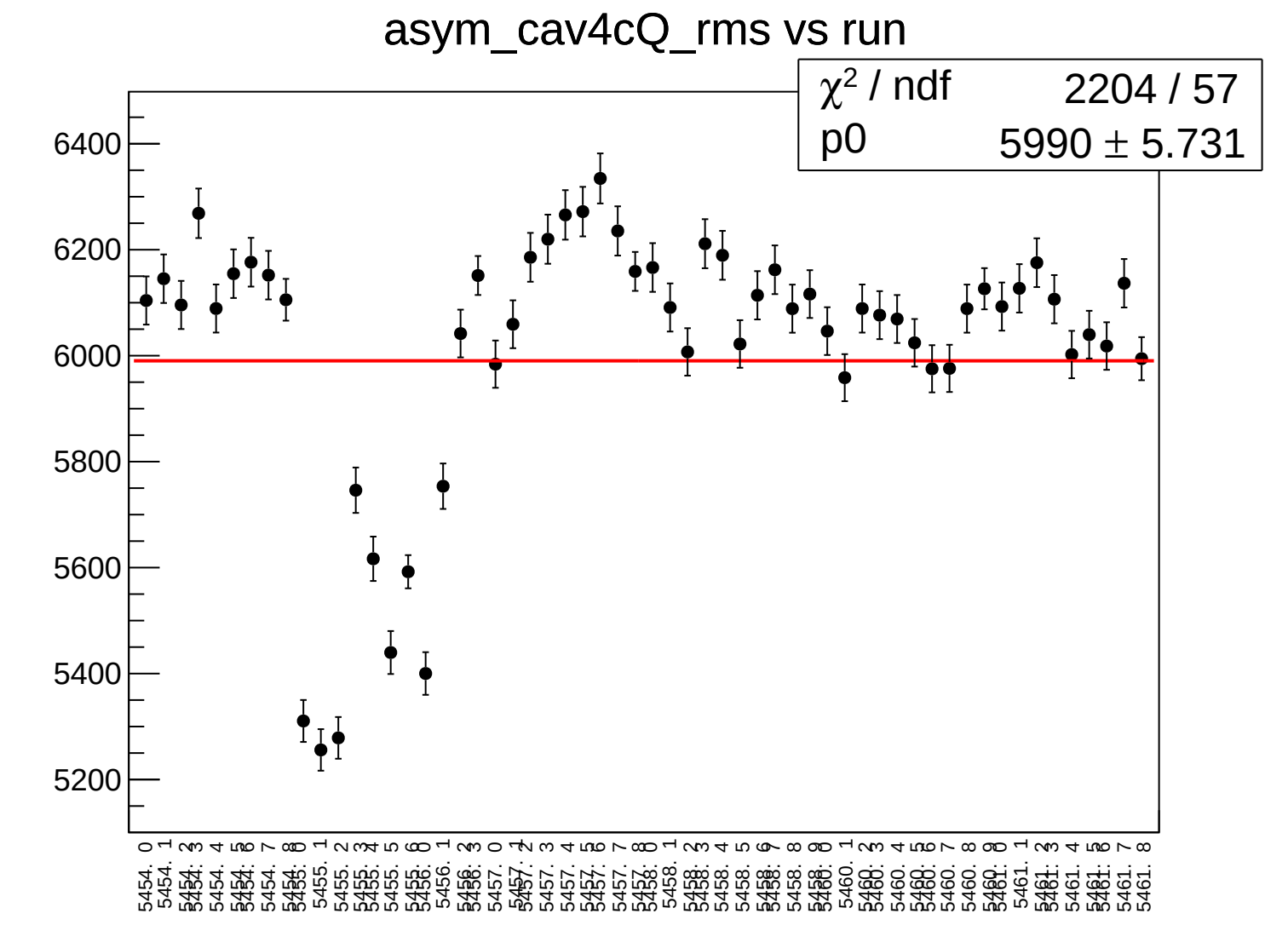

asym_cav4bQ_mean vs run
χ² / ndf 64.15 / 57
p0 2.036 ± 3.512
pull
Entries 58
Mean 460.5
Std Dev 435

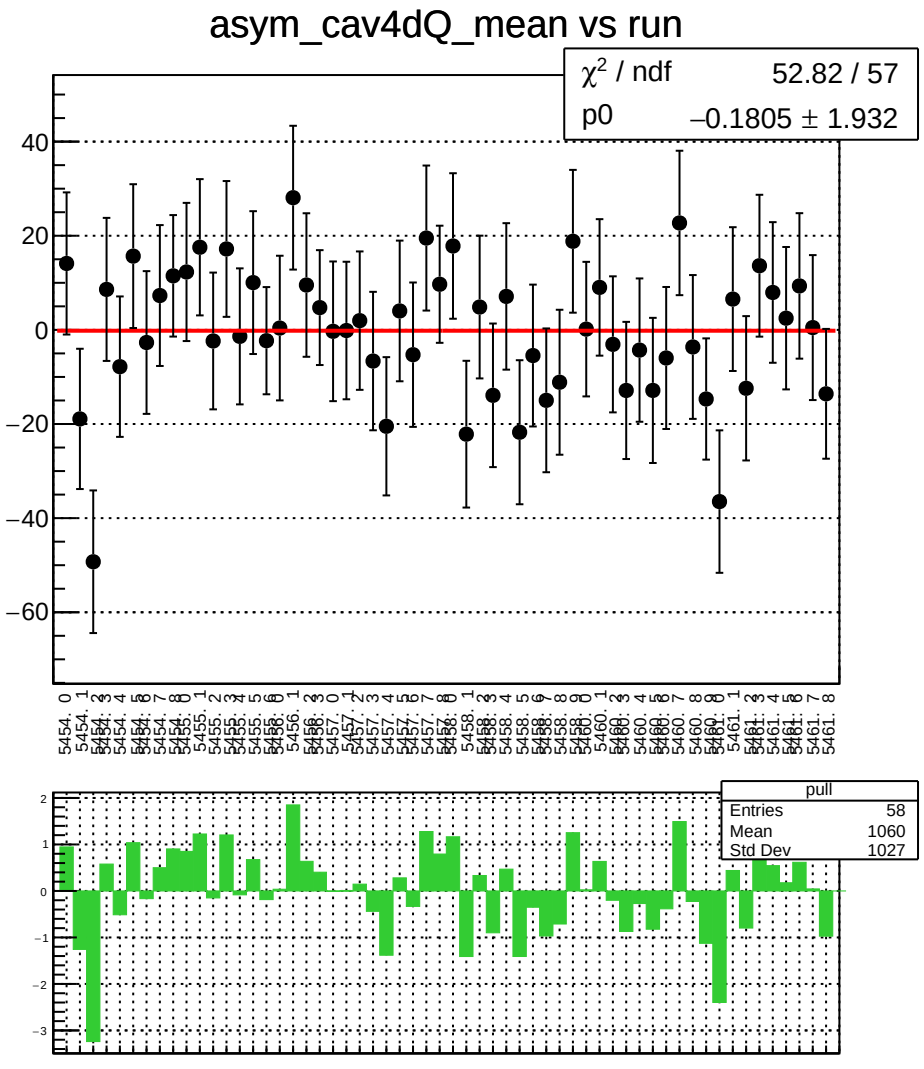

pull1D
Entries 58
Mean −0.003792
Std Dev 1.052

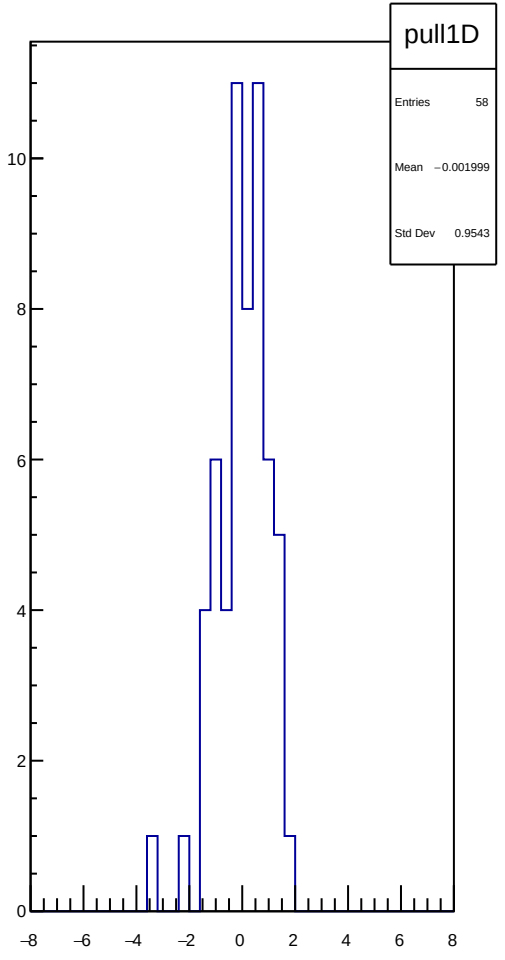

asym_cav4bQ_rms vs run
χ² / ndf 458.8 / 57
p0 2.598 ± 0.002484
2.75
2.7
2.65
2.6
2.55
2.5

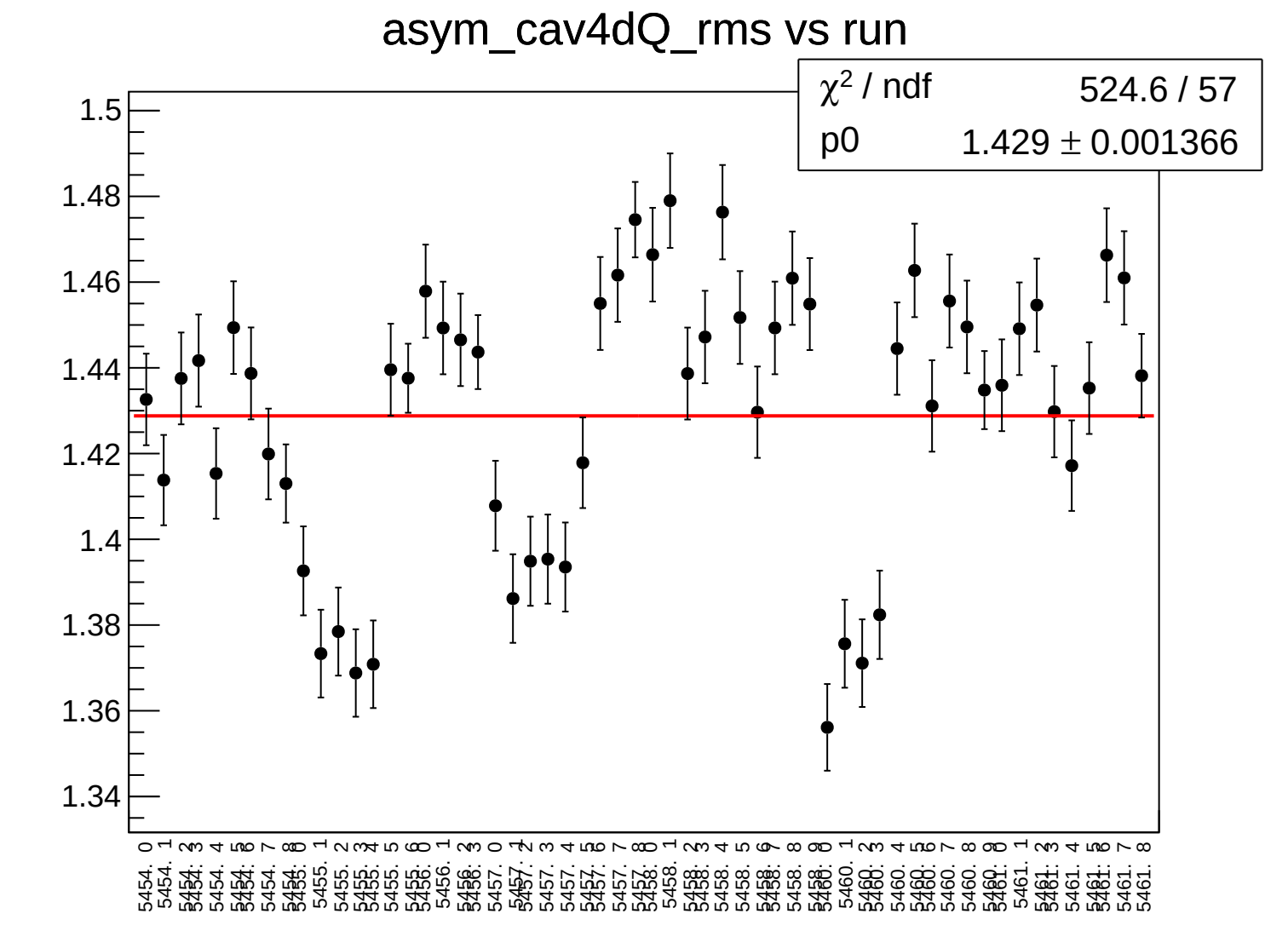

asym_cav4cQ_mean vs run
×10^3
χ² / ndf 80.55 / 57
p0 −21.49 ± 8104
pull
Entries 58
Mean 207.5
Std Dev 178.8

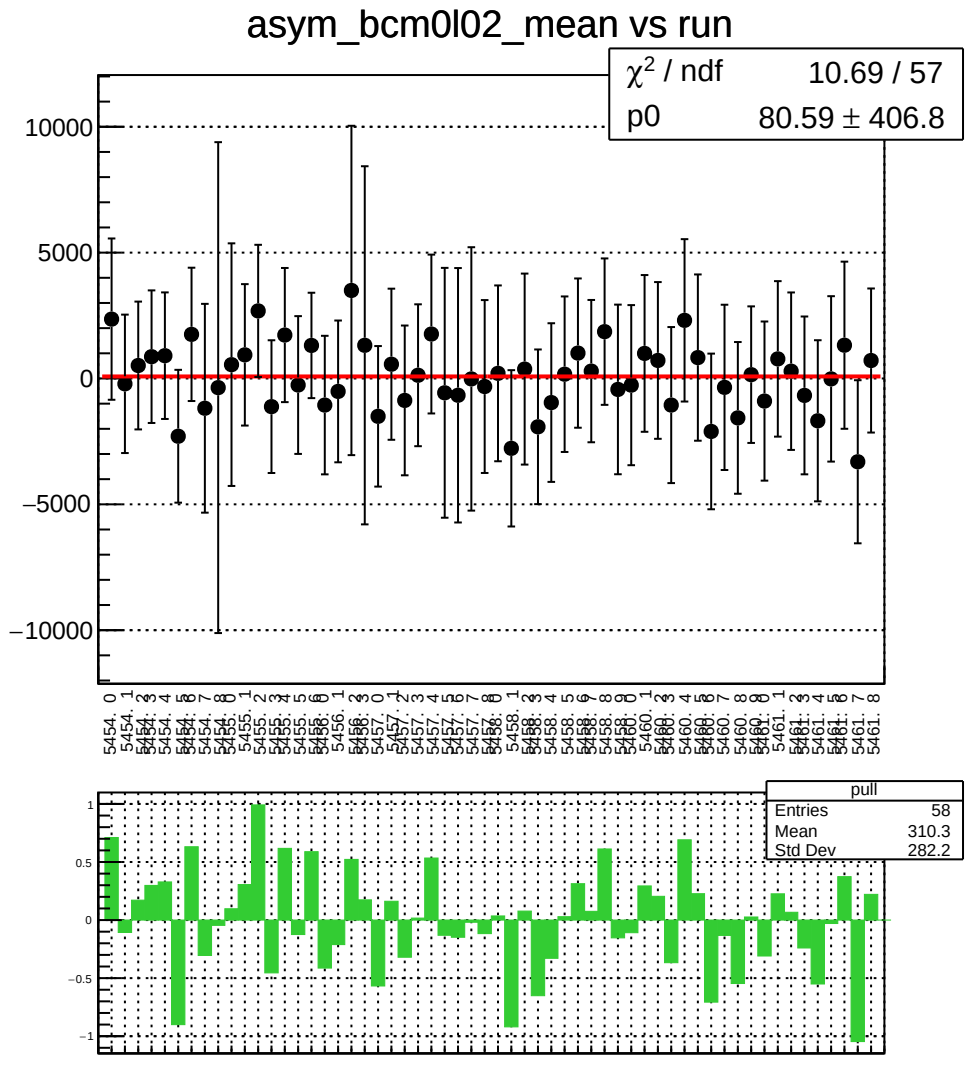

pull1D
Entries 58
Mean −0.02618
Std Dev 1.178

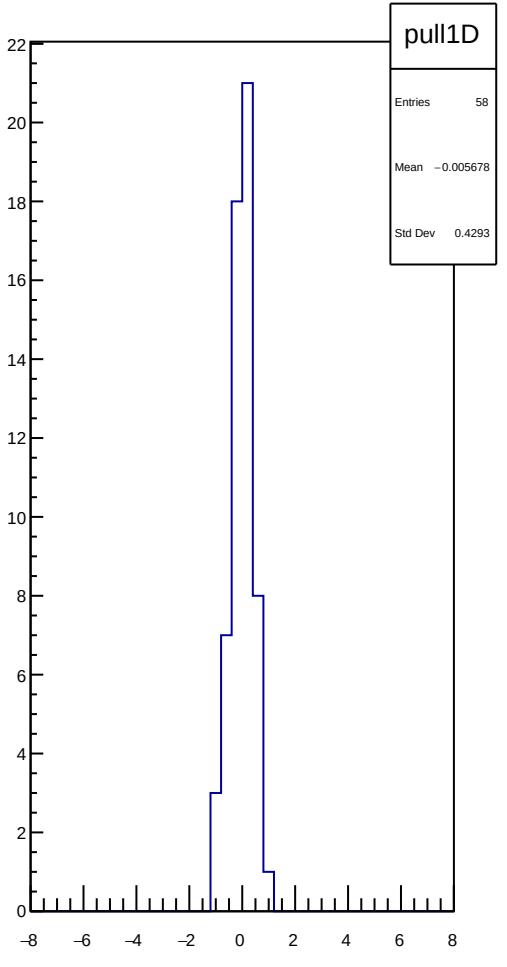

asym_cav4cQ_rms vs run
χ² / ndf 2204 / 57
p0 5990 ± 5.731
6400
6200
6000
5800
5600
5400
5200

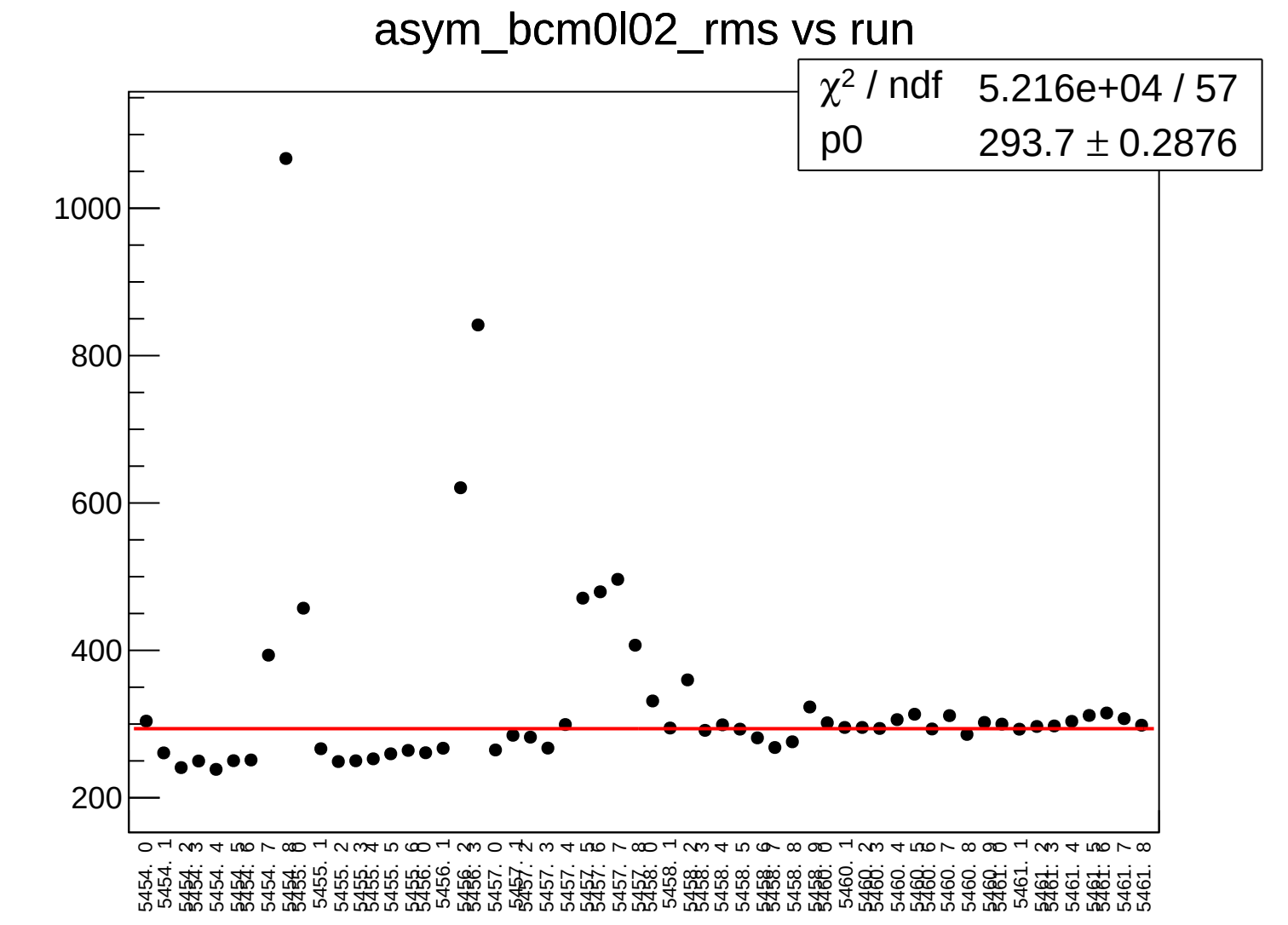

asym_cav4dQ_mean vs run
χ² / ndf 52.82 / 57
p0 −0.1805 ± 1.932
pull
Entries 58
Mean 1060
Std Dev 1027

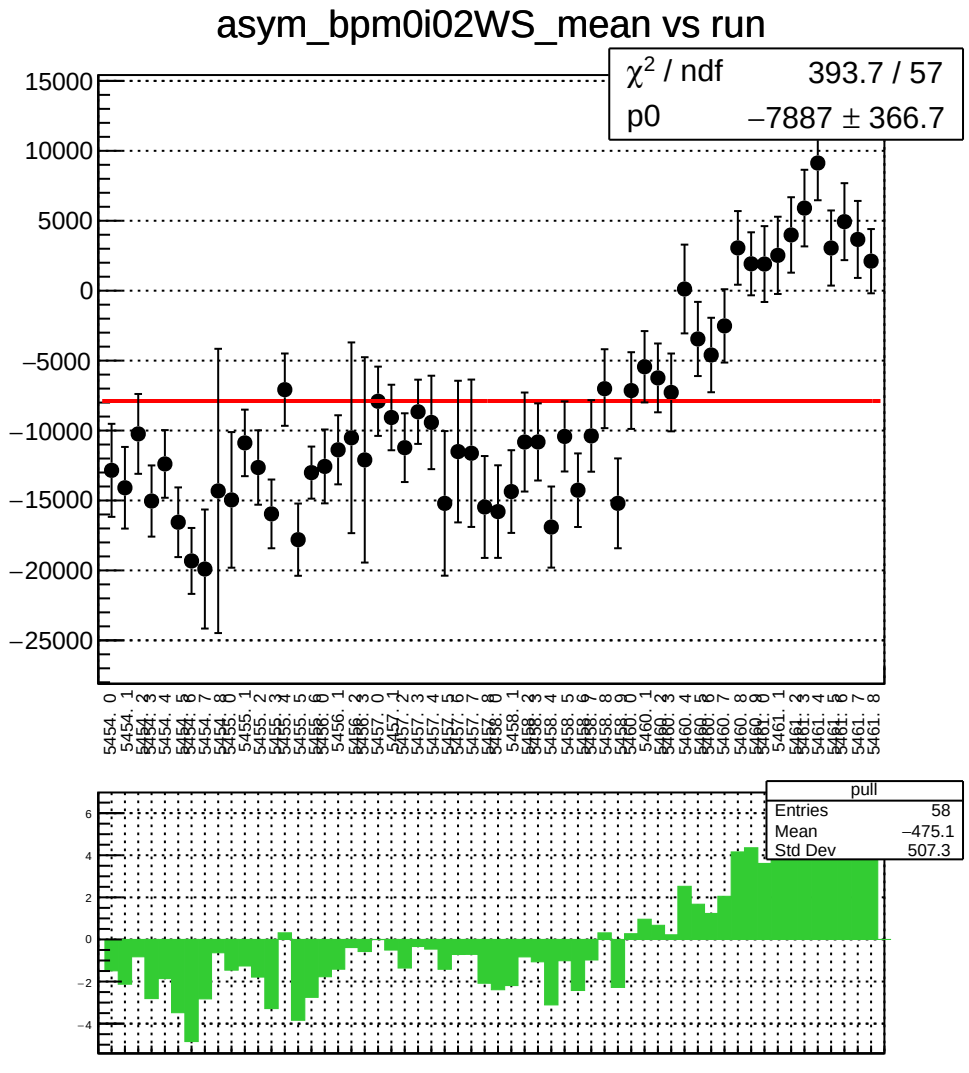

pull1D
Entries 58
Mean −0.001999
Std Dev 0.9543

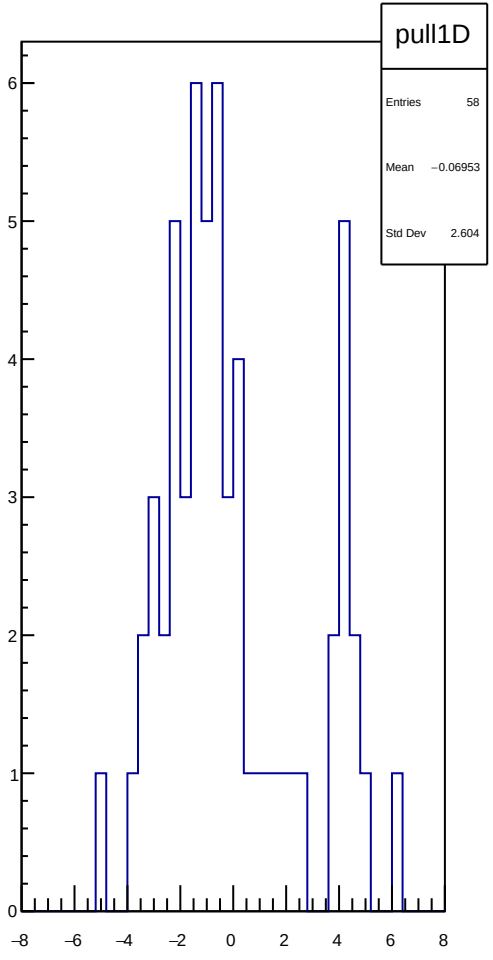

asym_cav4dQ_rms vs run
χ² / ndf 524.6 / 57
p0 1.429 ± 0.001366
1.5
1.48
1.46
1.44
1.42
1.4
1.38
1.36
1.34

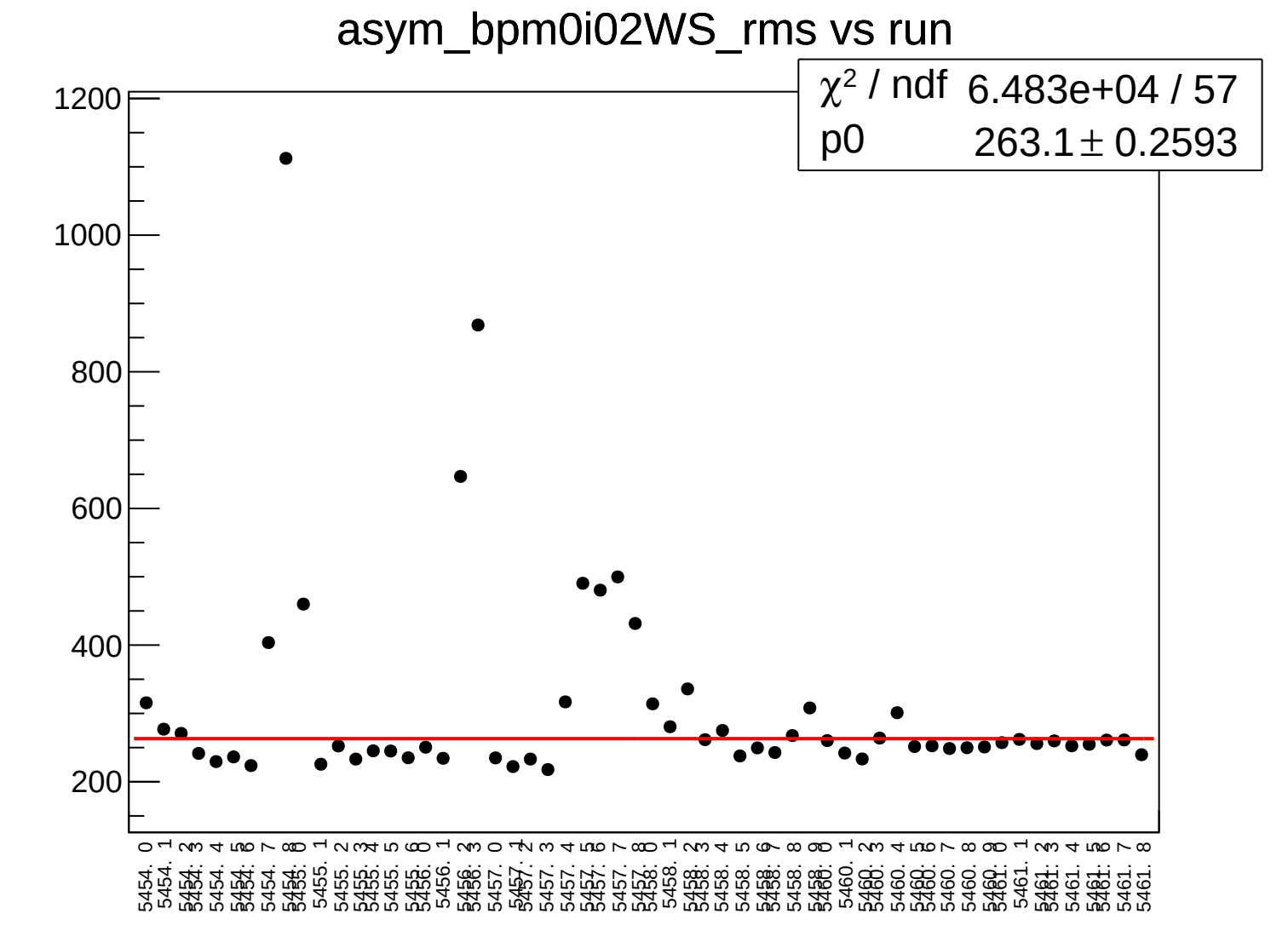

asym_bcm0l02_mean vs run
χ^2 / ndf 10.69 / 57
p0 80.59 ± 406.8
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 310.3
Std Dev 282.2
1
0.5
0
−0.5
−1

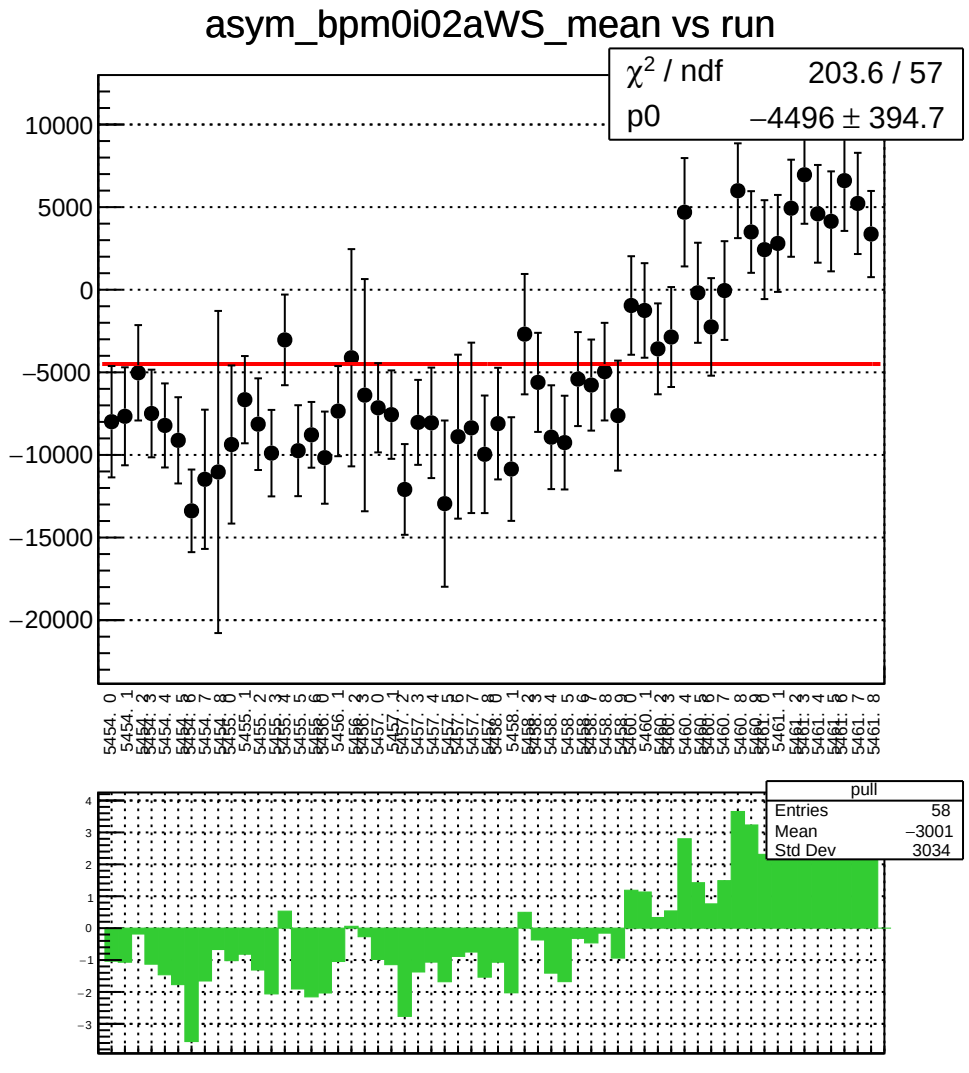

pull1D
Entries 58
Mean −0.005678
Std Dev 0.4293
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

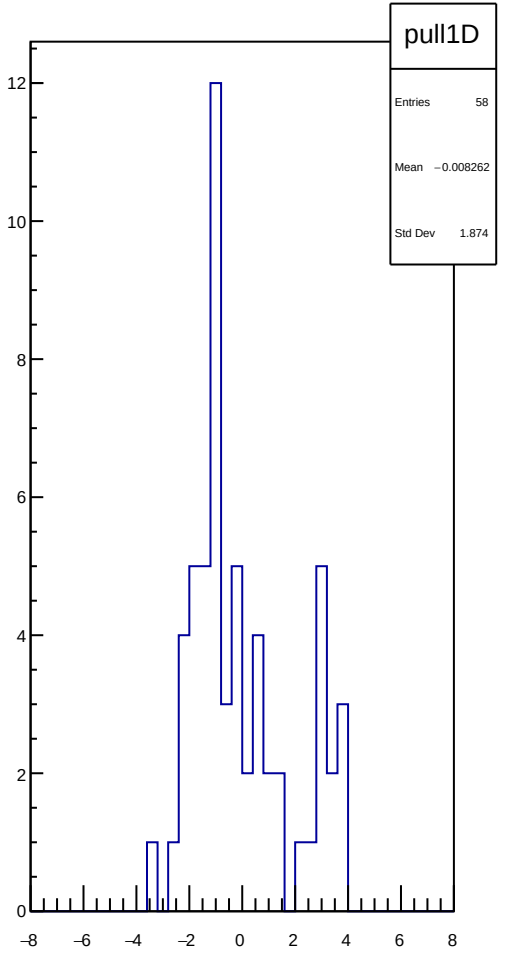

asym_bcm0l02_rms vs run
χ² / ndf 5.216e+04 / 57
p0 293.7 ± 0.2876
1000
800
600
400
200

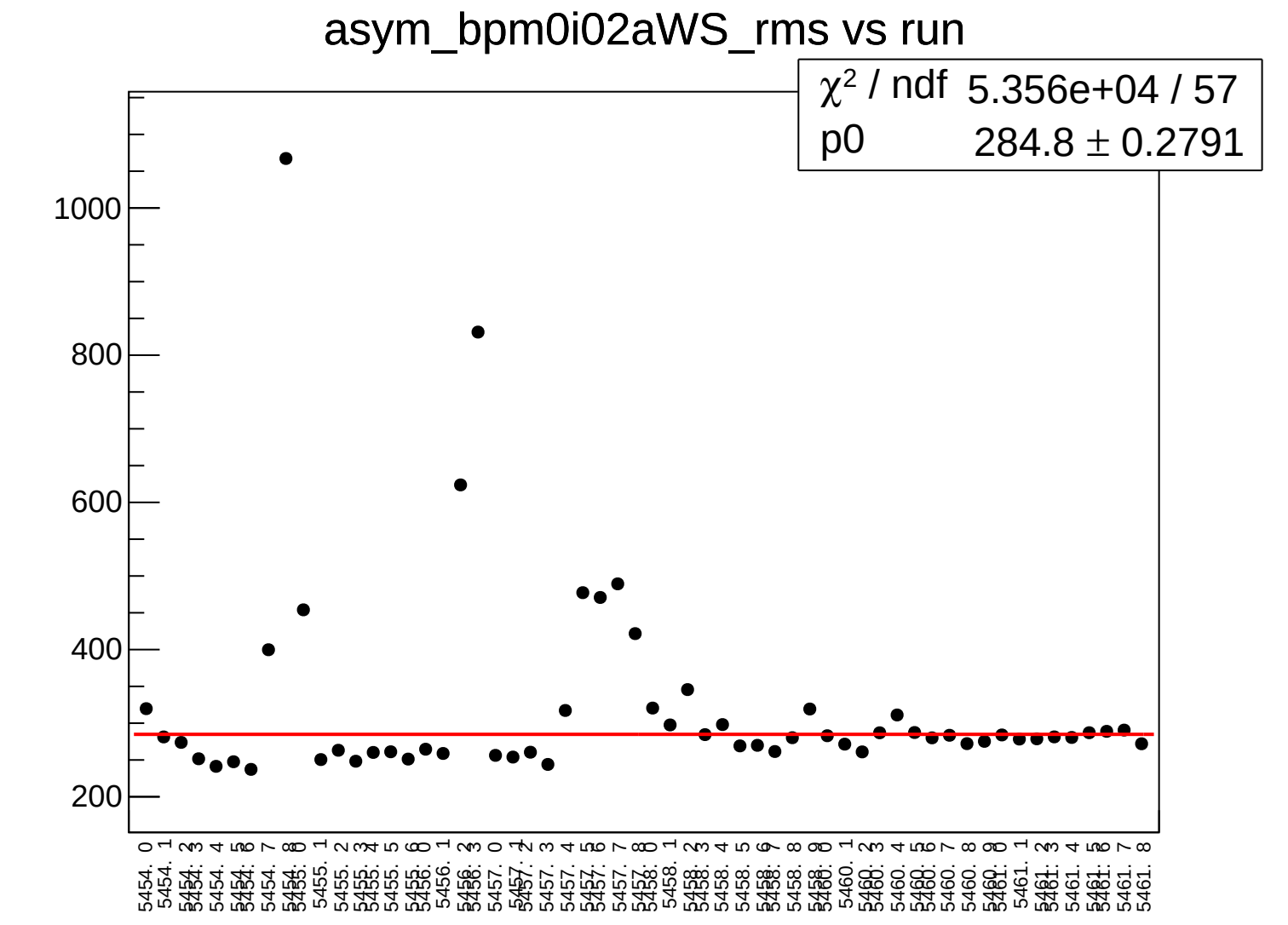

asym_bpm0i02WS_mean vs run
χ² / ndf 393.7 / 57
p0 −7887 ± 366.7
pull
Entries 58
Mean −475.1
Std Dev 507.3

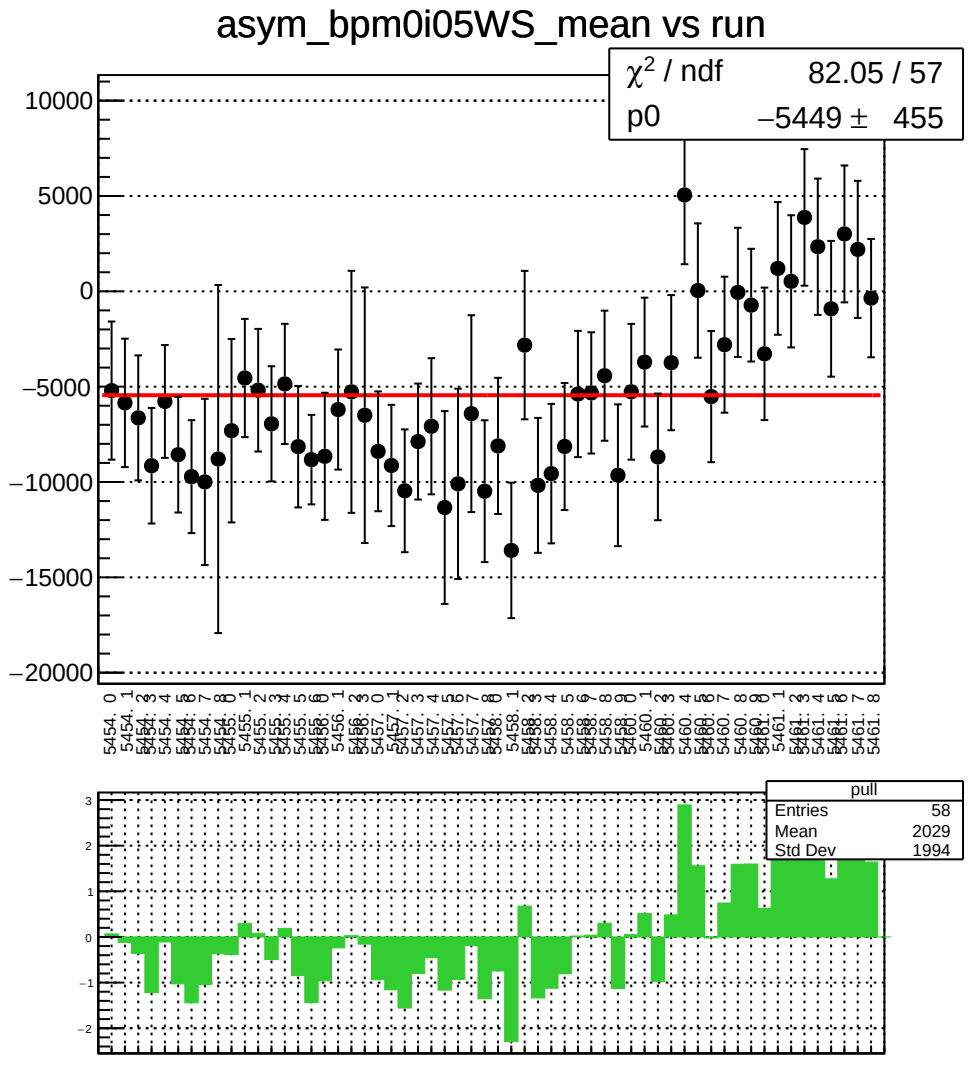

pull1D
Entries 58
Mean −0.06953
Std Dev 2.604

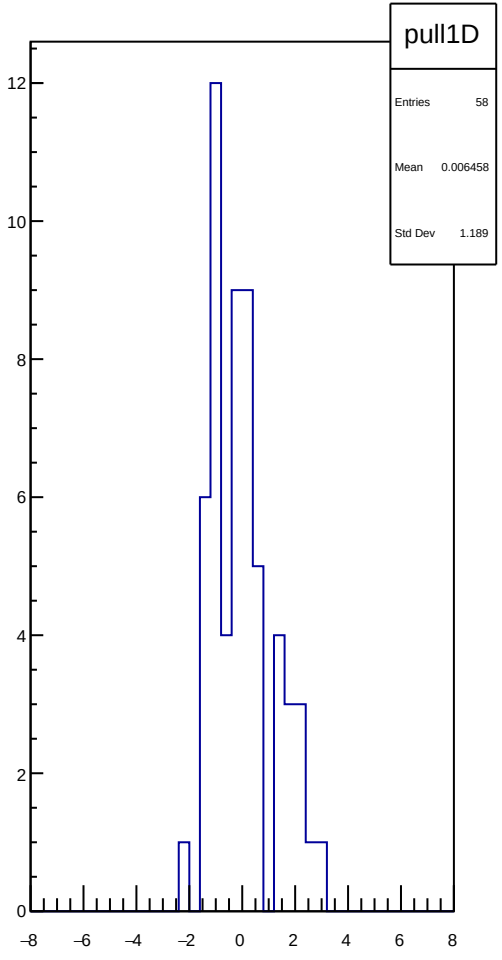

asym_bpm0i02WS_rms vs run
χ² / ndf 6.483e+04 / 57
p0 263.1 ± 0.2593
1200
1000
800
600
400
200

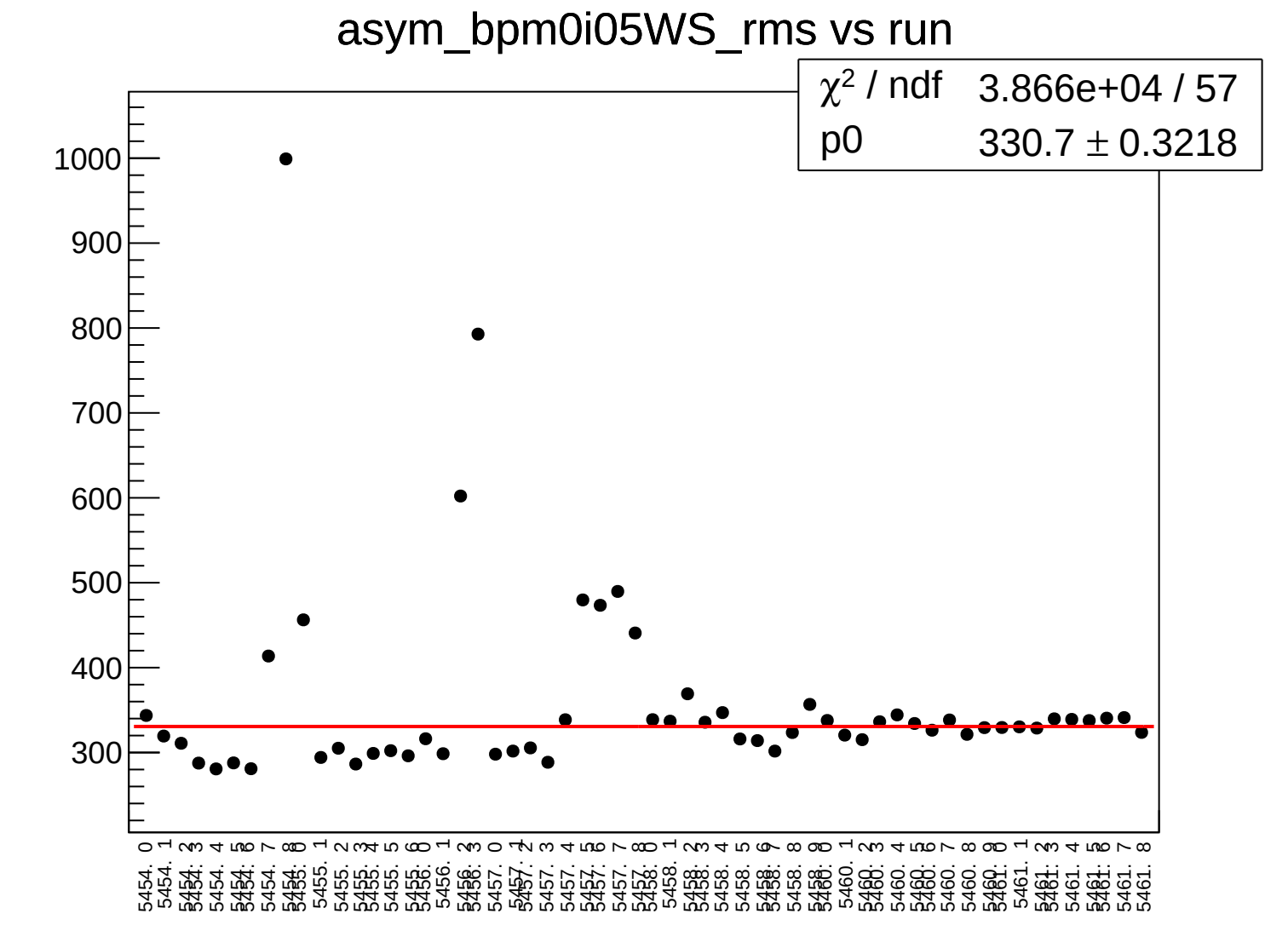

asym_bpm0i02aWS_mean vs run
χ² / ndf 203.6 / 57
p0 −4496 ± 394.7
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean −3001
Std Dev 3034
4
3
2
1
0
−1
−2
−3

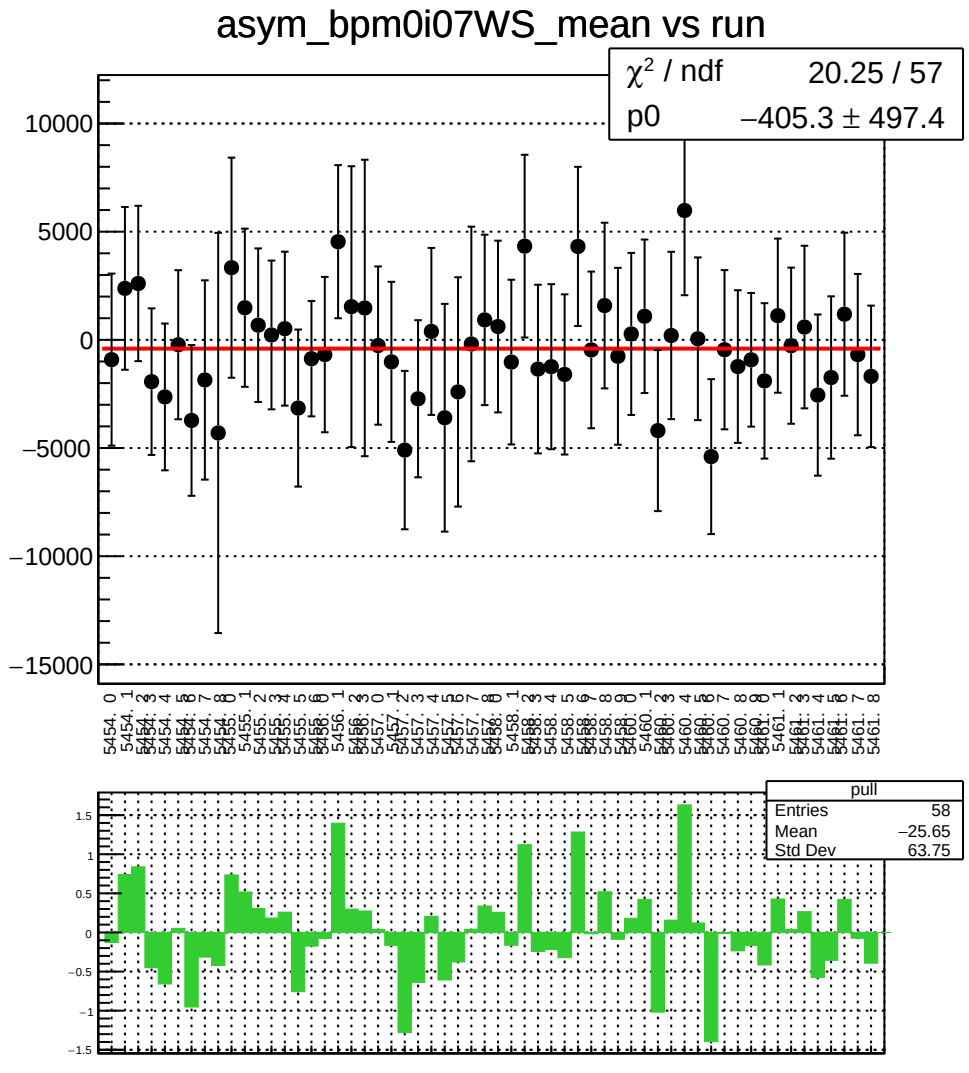

pull1D
Entries 58
Mean −0.008262
Std Dev 1.874
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

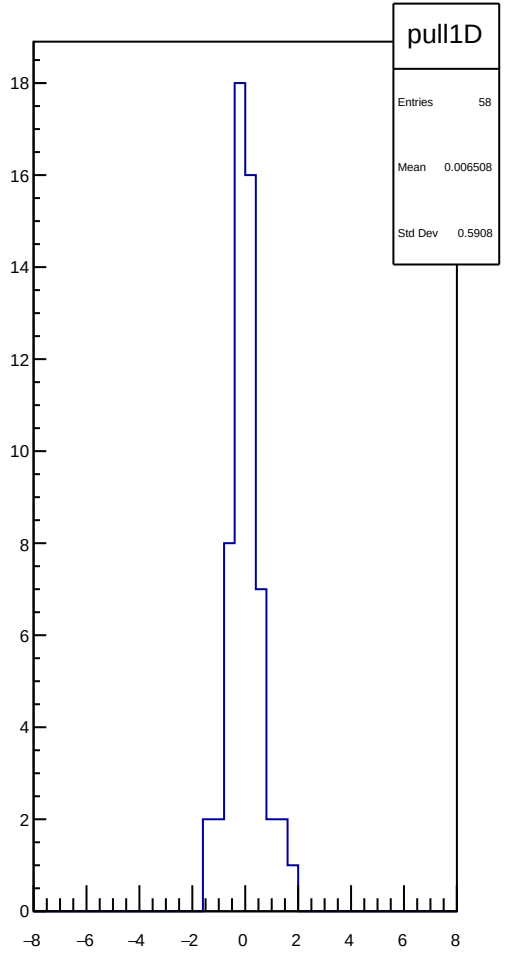

asym_bpm0i02aWS_rms vs run
χ² / ndf 5.356e+04 / 57
p0 284.8 ± 0.2791
1000
800
600
400
200

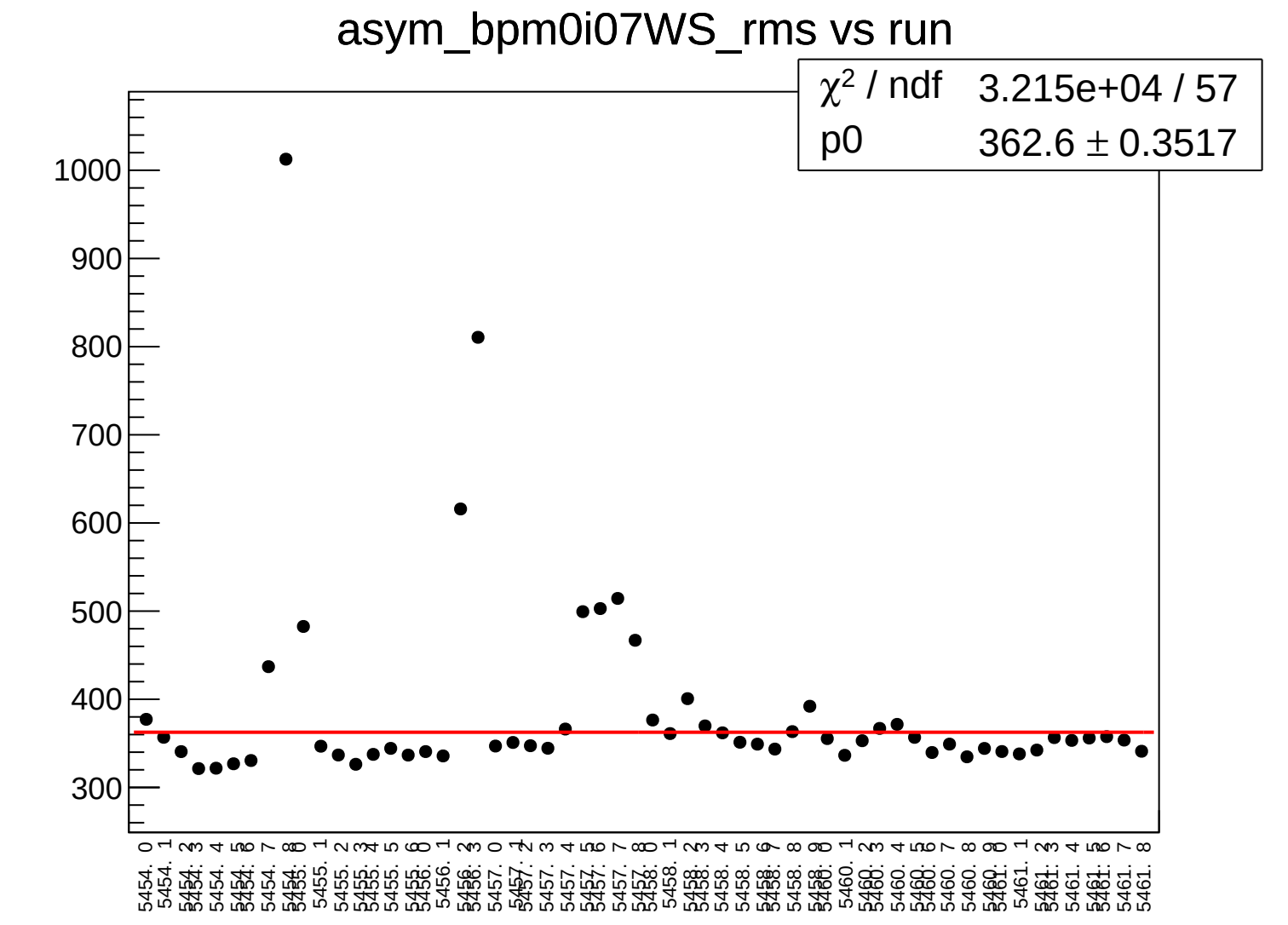

asym_bpm0i05WS_mean vs run
χ² / ndf 82.05 / 57
p0 −5449 ± 455
pull
Entries 58
Mean 2029
Std Dev 1994

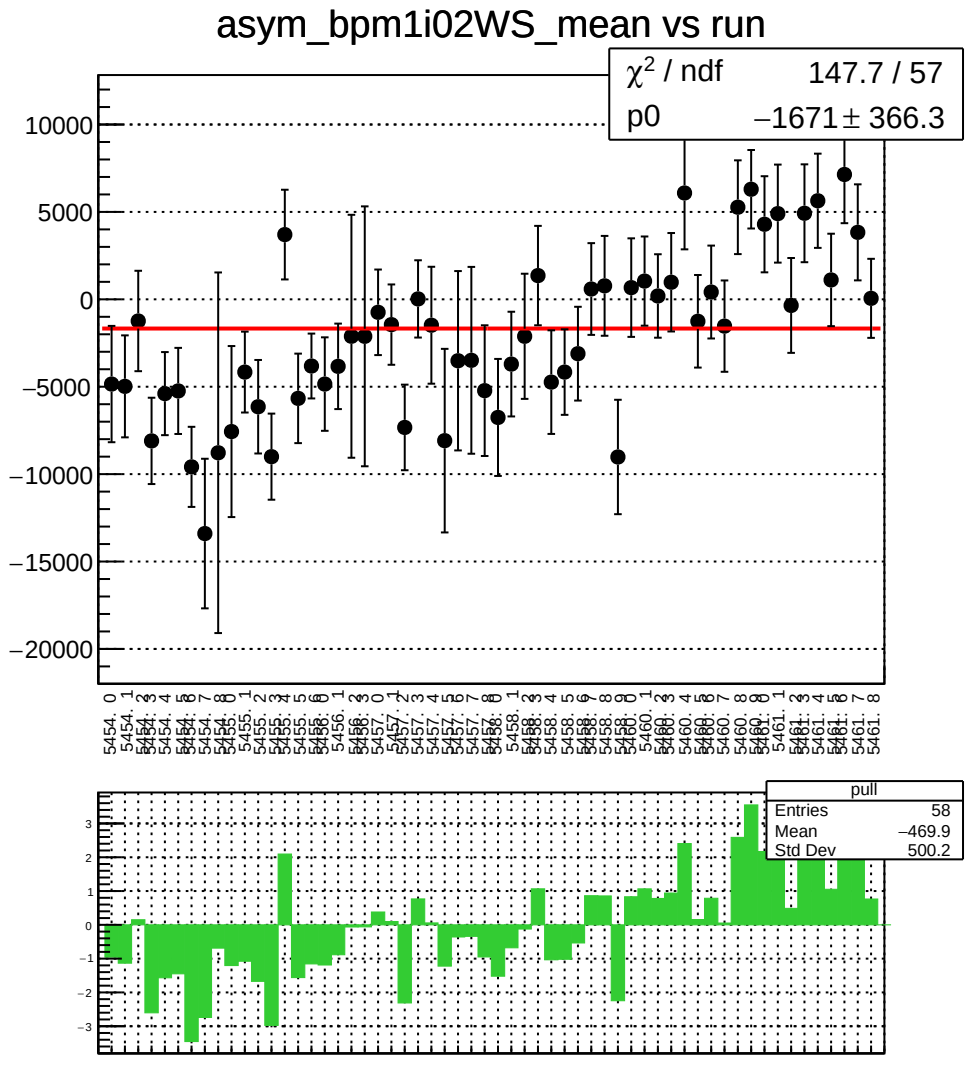

pull1D
Entries 58
Mean 0.006458
Std Dev 1.189

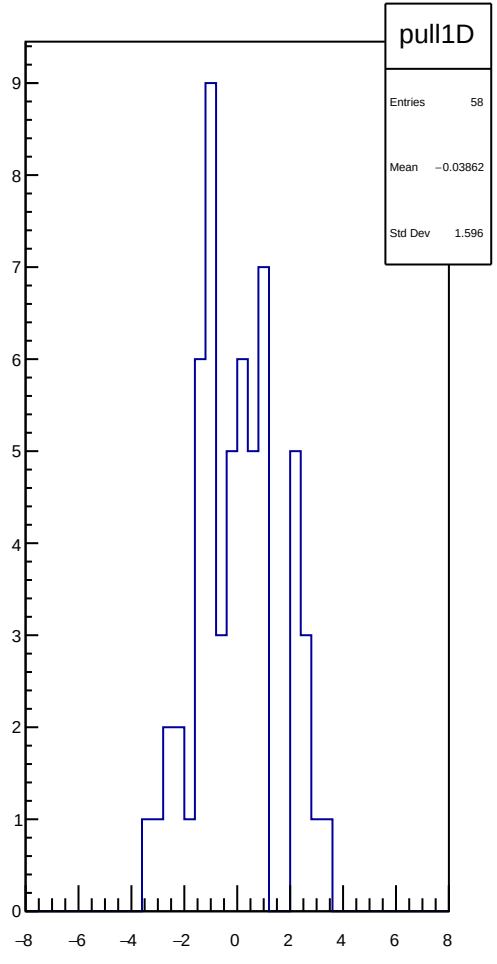

asym_bpm0i05WS_rms vs run
χ² / ndf 3.866e+04 / 57
p0 330.7 ± 0.3218
1000
900
800
700
600
500
400
300

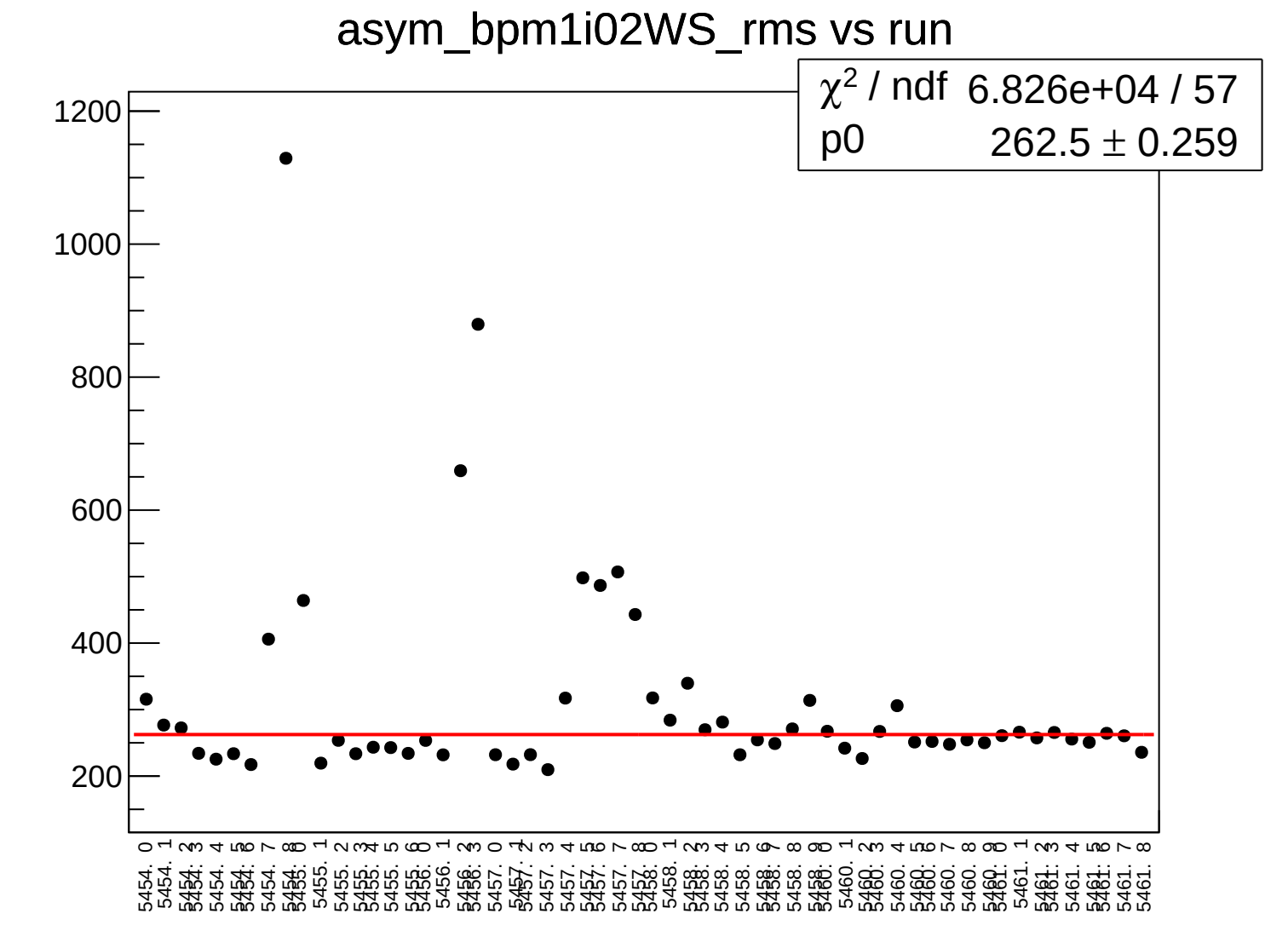

asym_bpm0i07WS_mean vs run
χ² / ndf 20.25 / 57
p0 −405.3 ± 497.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean −25.65
Std Dev 63.75
1.5
1
0.5
0
−0.5
−1
−1.5

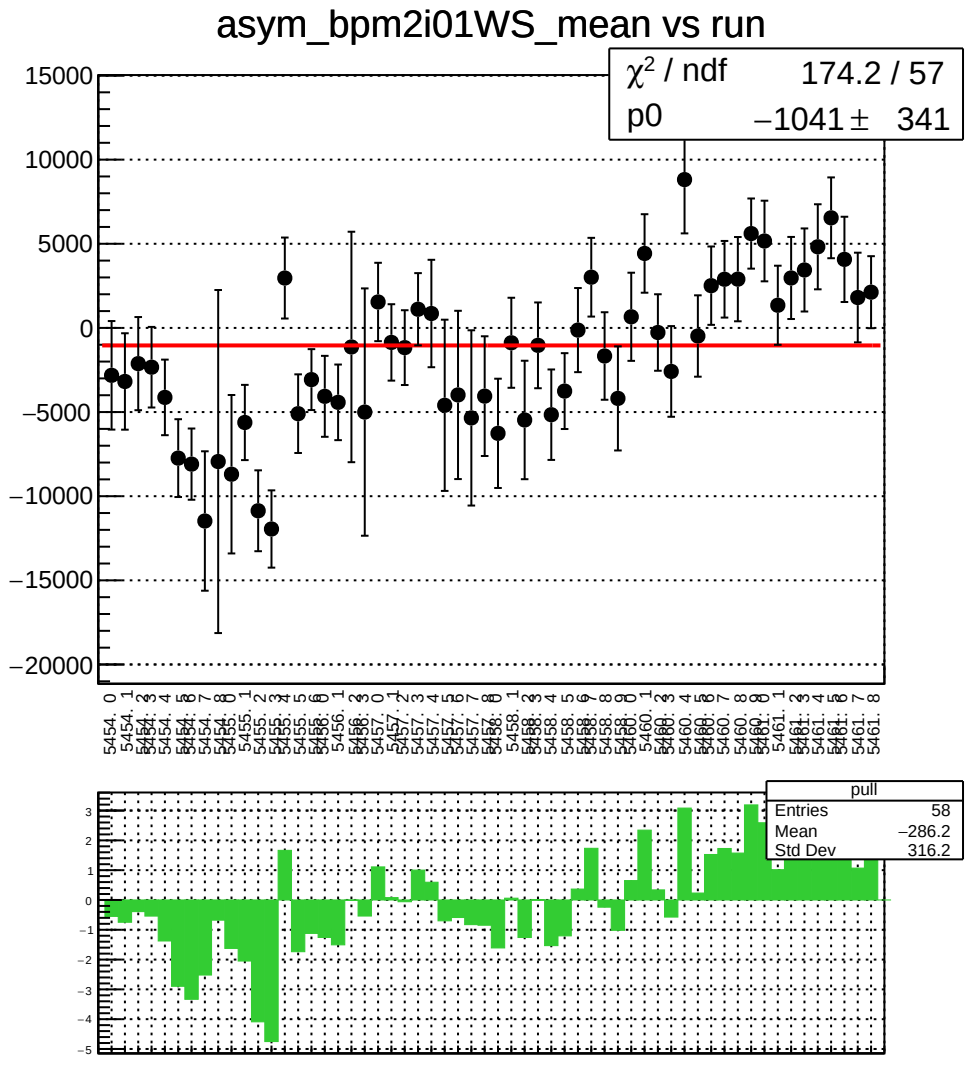

pull1D
Entries 58
Mean 0.006508
Std Dev 0.5908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

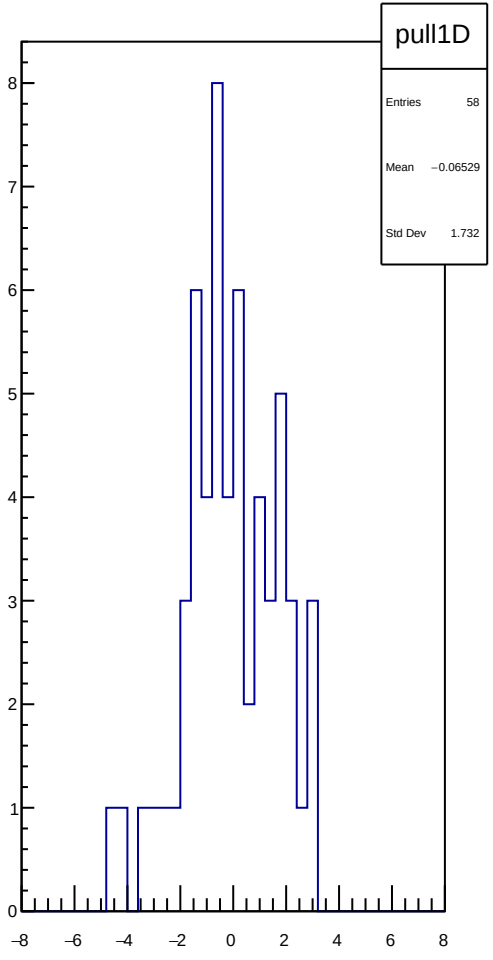

asym_bpm0i07WS_rms vs run
χ² / ndf 3.215e+04 / 57
p0 362.6 ± 0.3517
1000
900
800
700
600
500
400
300

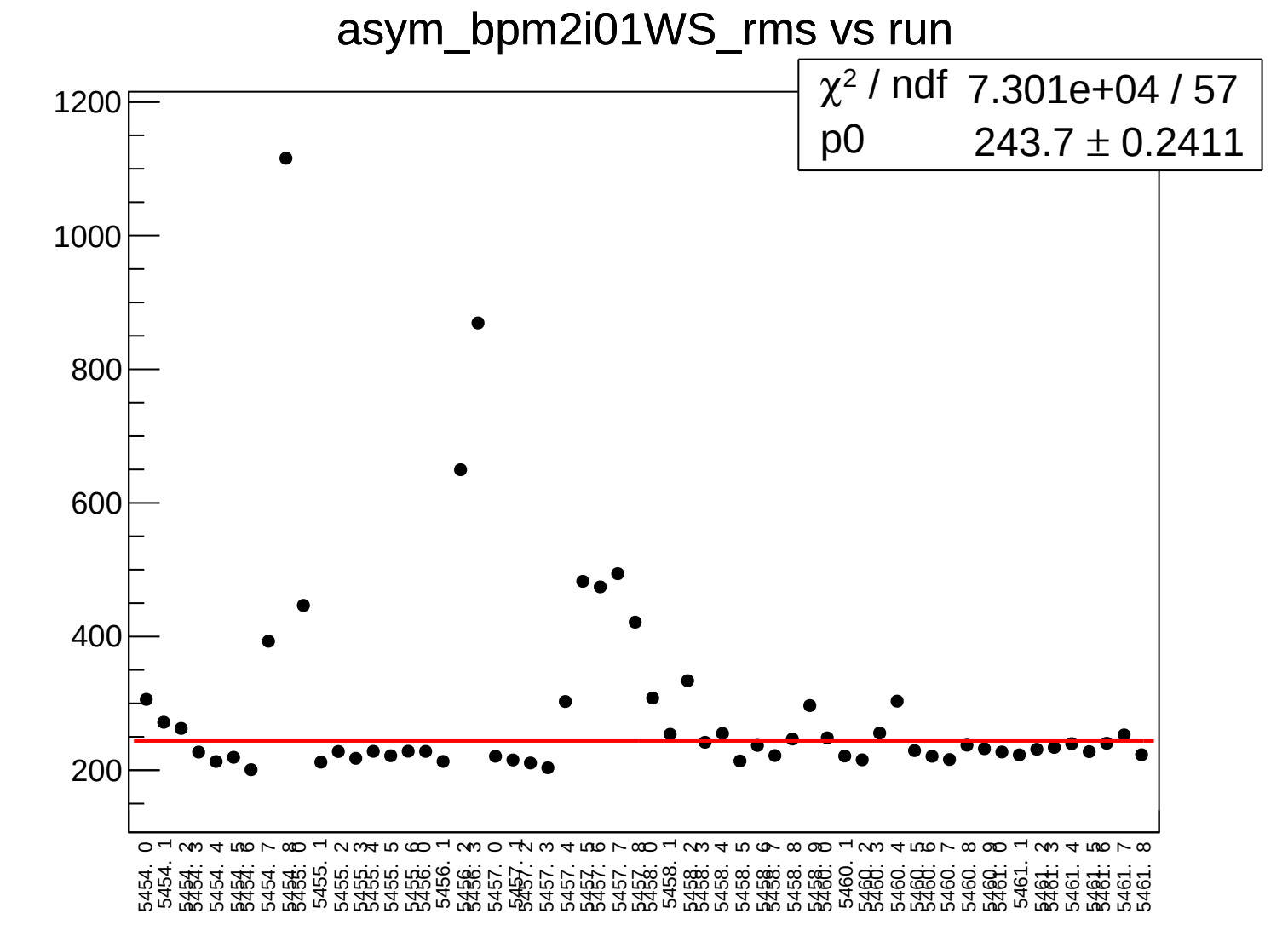

asym_bpm1i02WS_mean vs run
χ² / ndf 147.7 / 57
p0 −1671 ± 366.3
pull
Entries 58
Mean −469.9
Std Dev 500.2

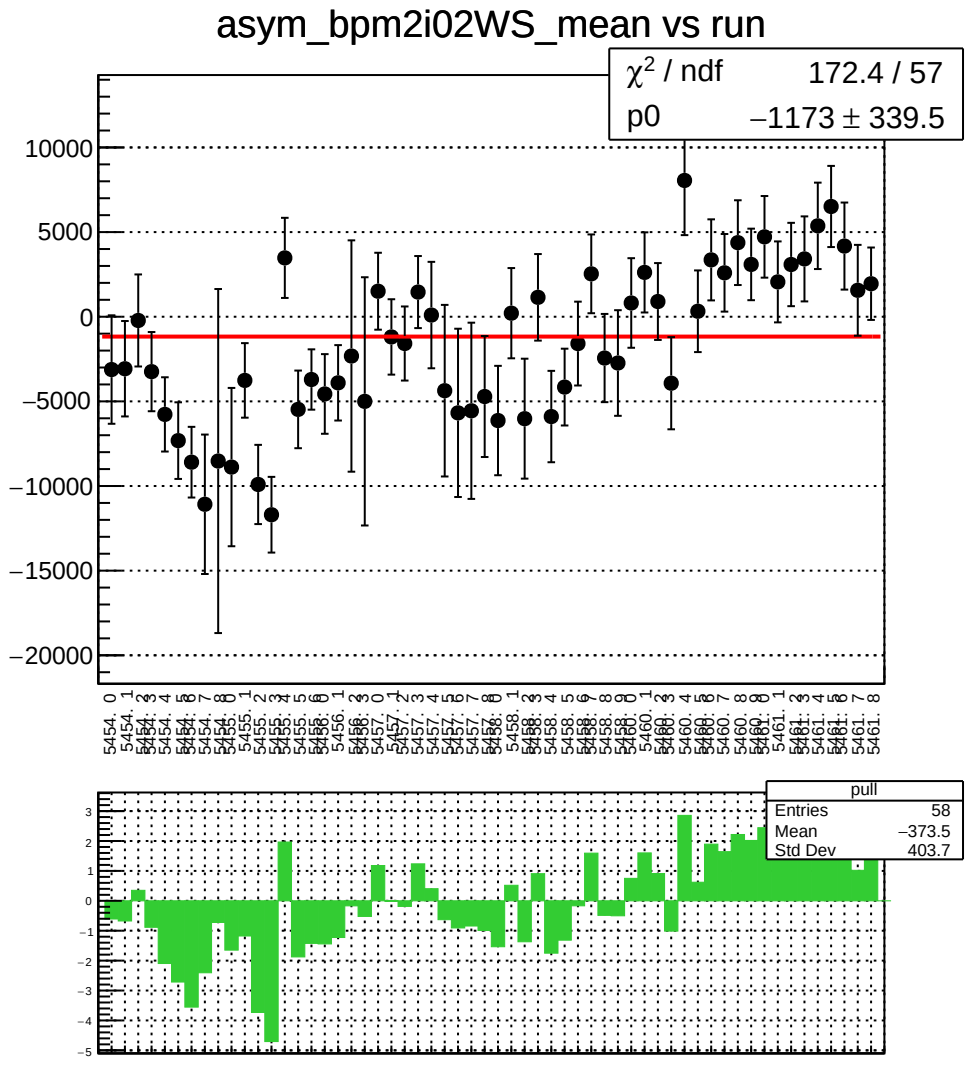

pull1D
Entries 58
Mean −0.03862
Std Dev 1.596

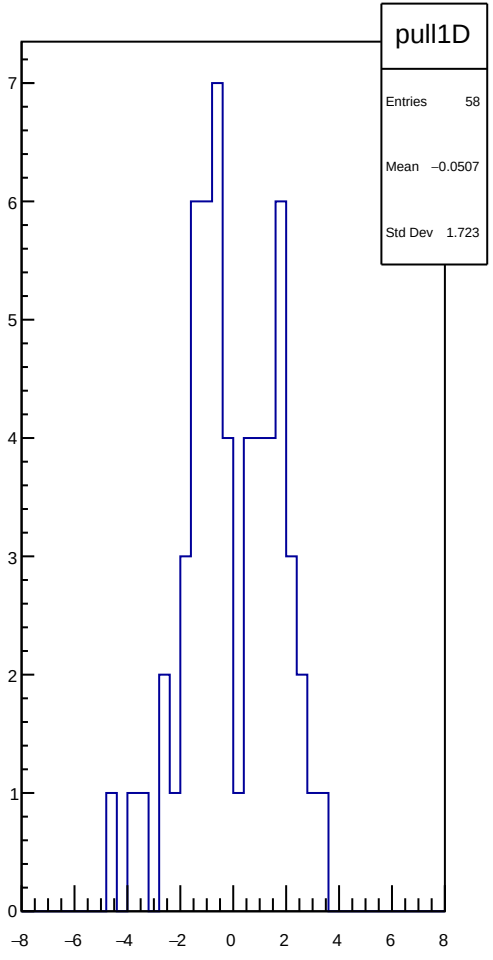

asym_bpm1i02WS_rms vs run
χ² / ndf 6.826e+04 / 57
p0 262.5 ± 0.259
1200
1000
800
600
400
200

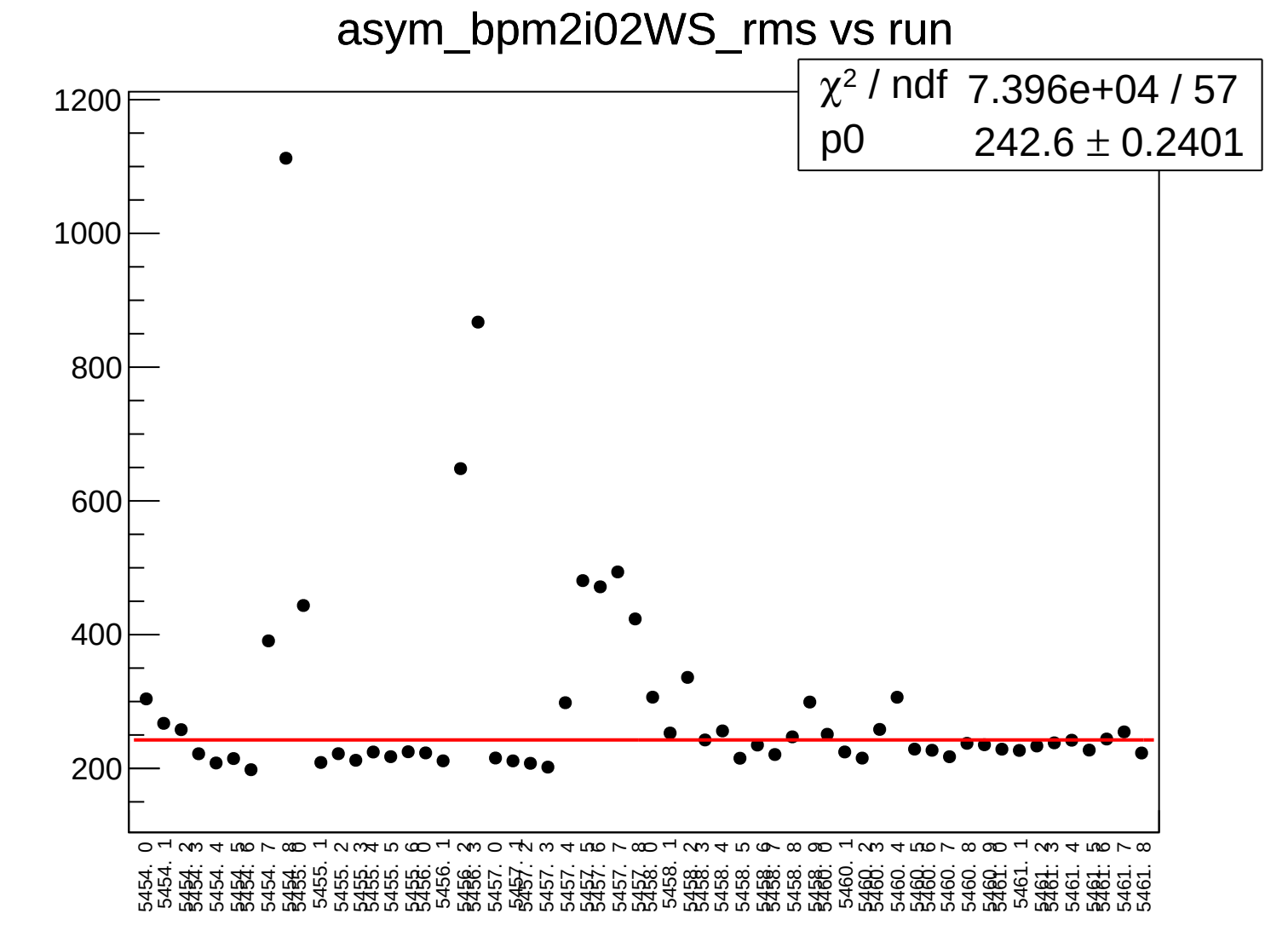

asym_bpm2i01WS_mean vs run
χ² / ndf 174.2 / 57
p0 −1041 ± 341
pull
Entries 58
Mean −286.2
Std Dev 316.2

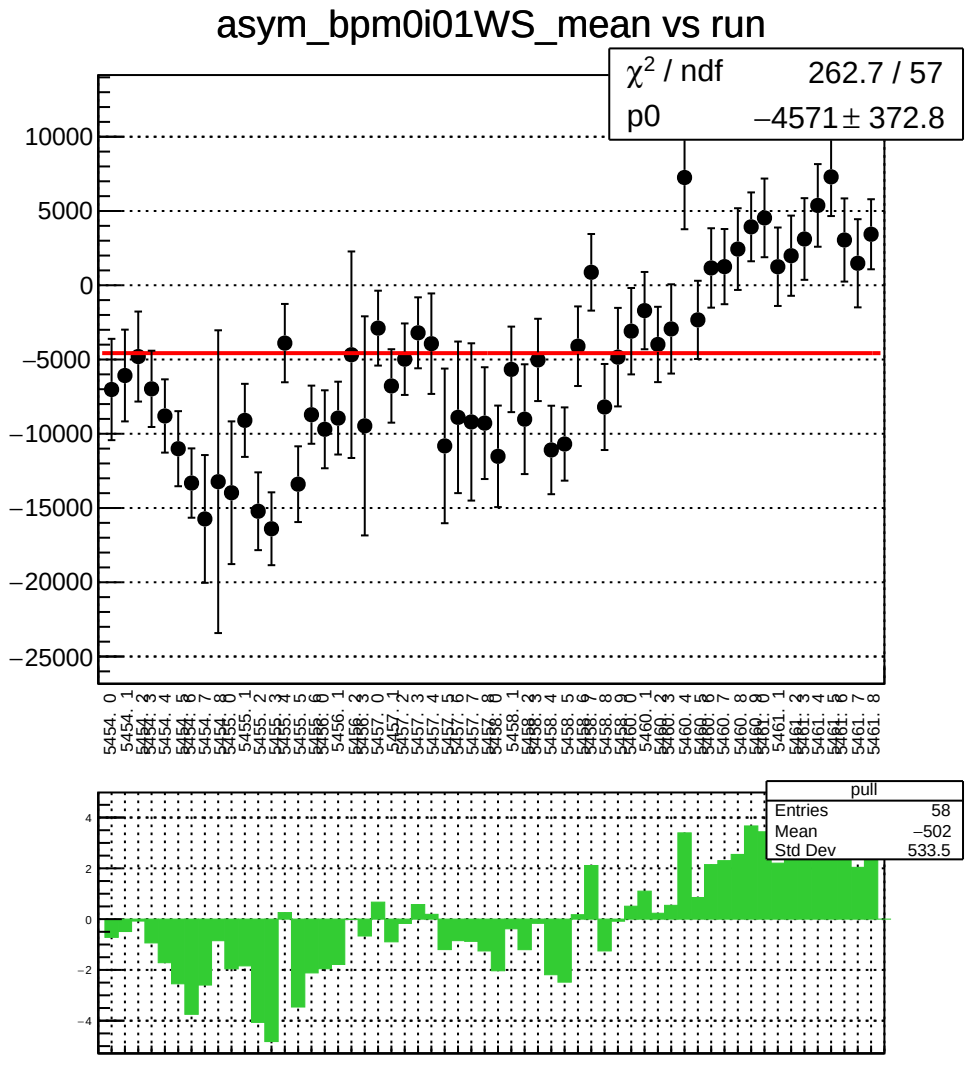

pull1D
Entries 58
Mean −0.06529
Std Dev 1.732

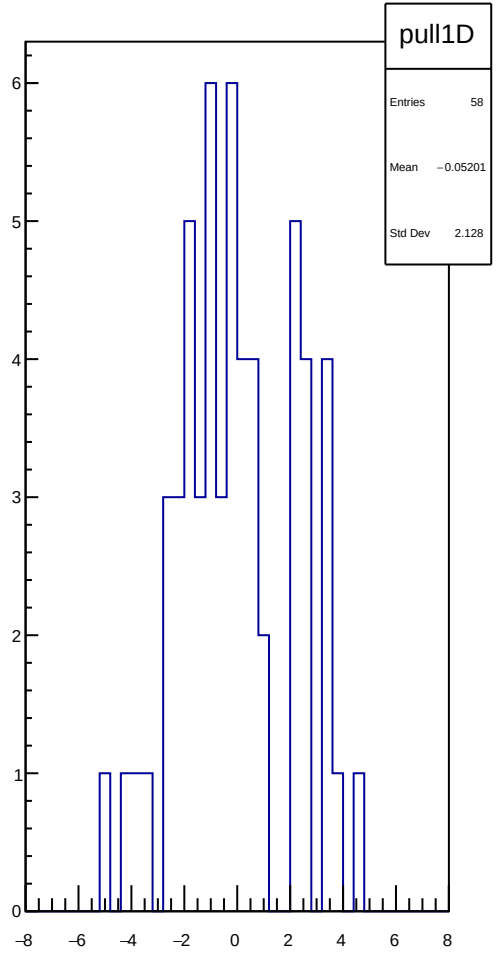

asym_bpm2i01WS_rms vs run
χ² / ndf 7.301e+04 / 57
p0 243.7 ± 0.2411
1200
1000
800
600
400
200

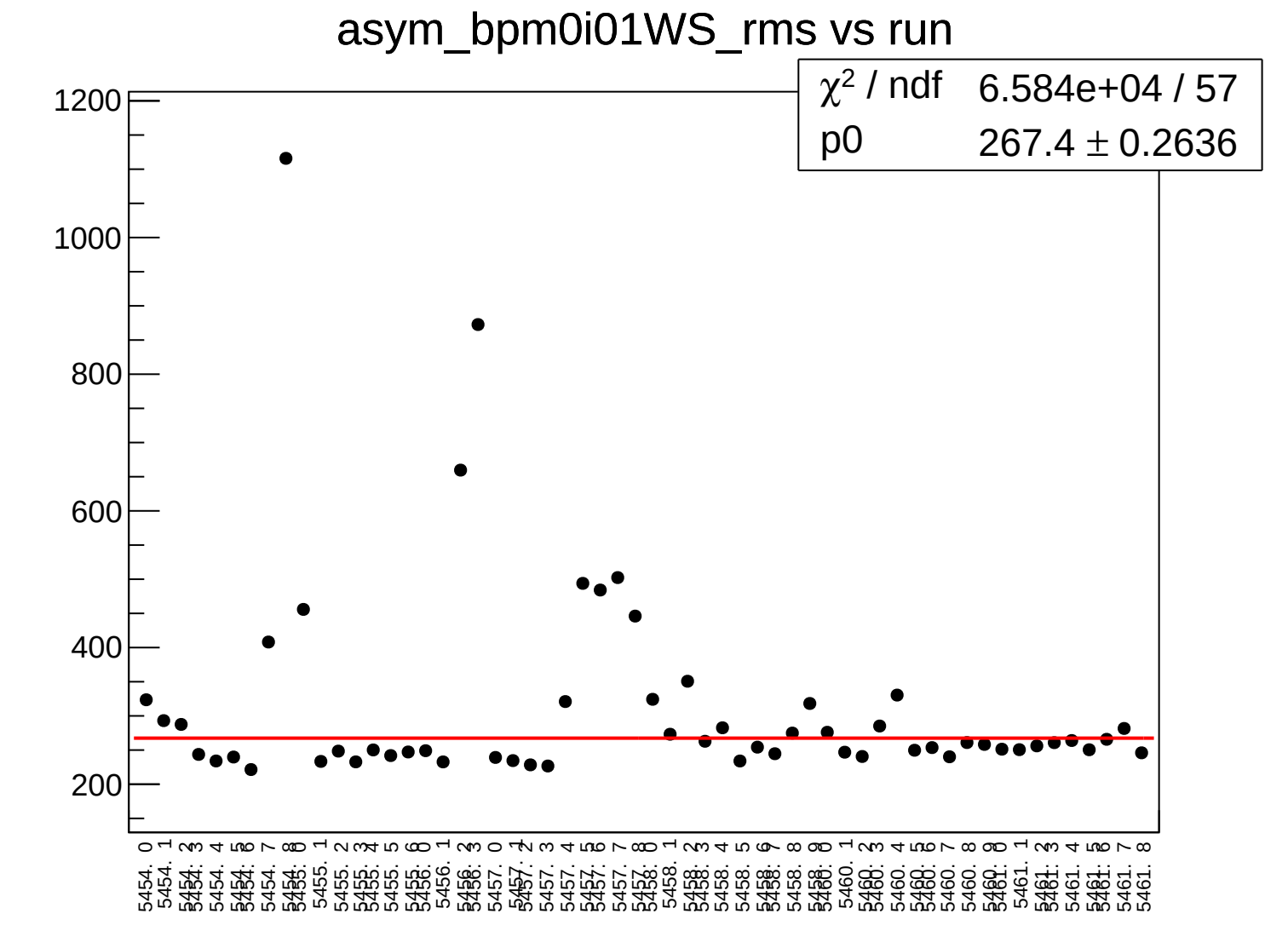

asym_bpm2i02WS_mean vs run
χ² / ndf 172.4 / 57
p0 −1173 ± 339.5
pull
Entries 58
Mean −373.5
Std Dev 403.7

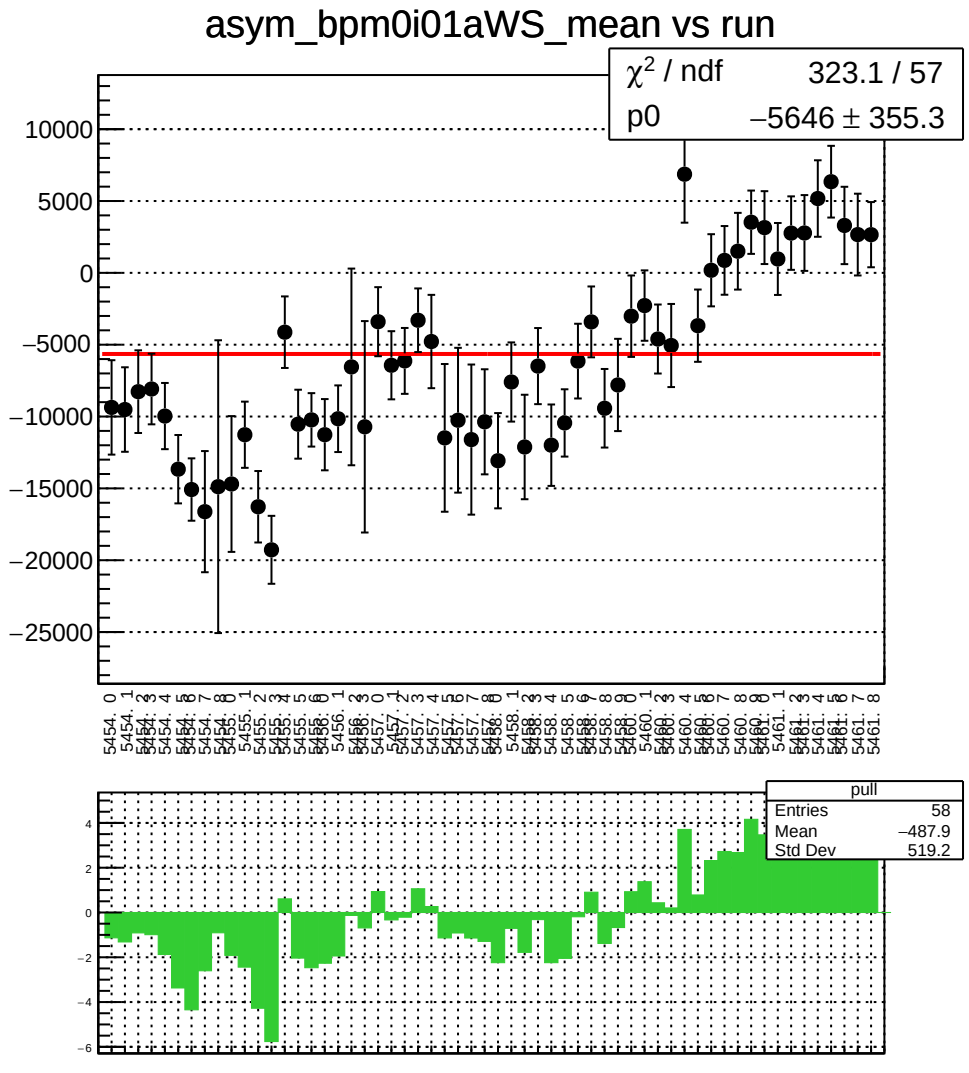

pull1D
Entries 58
Mean −0.0507
Std Dev 1.723

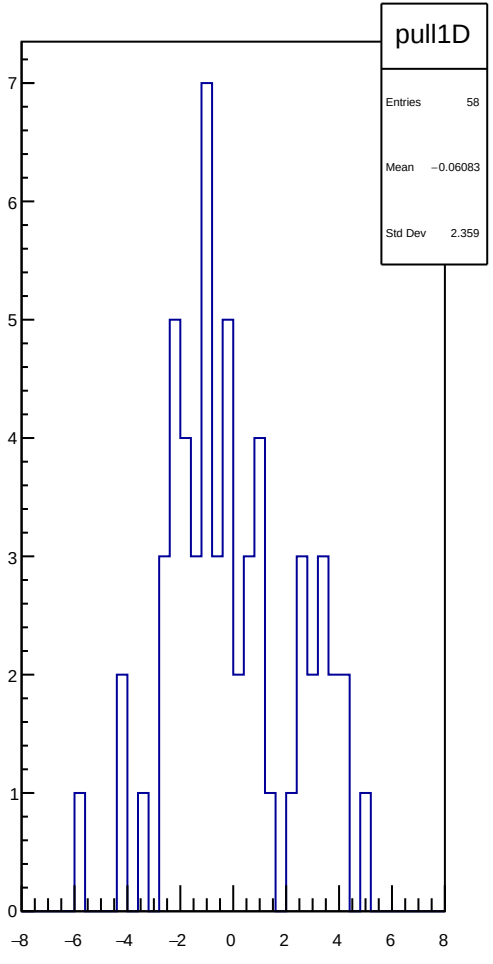

asym_bpm2i02WS_rms vs run
χ² / ndf 7.396e+04 / 57
p0 242.6 ± 0.2401
1200
1000
800
600
400
200

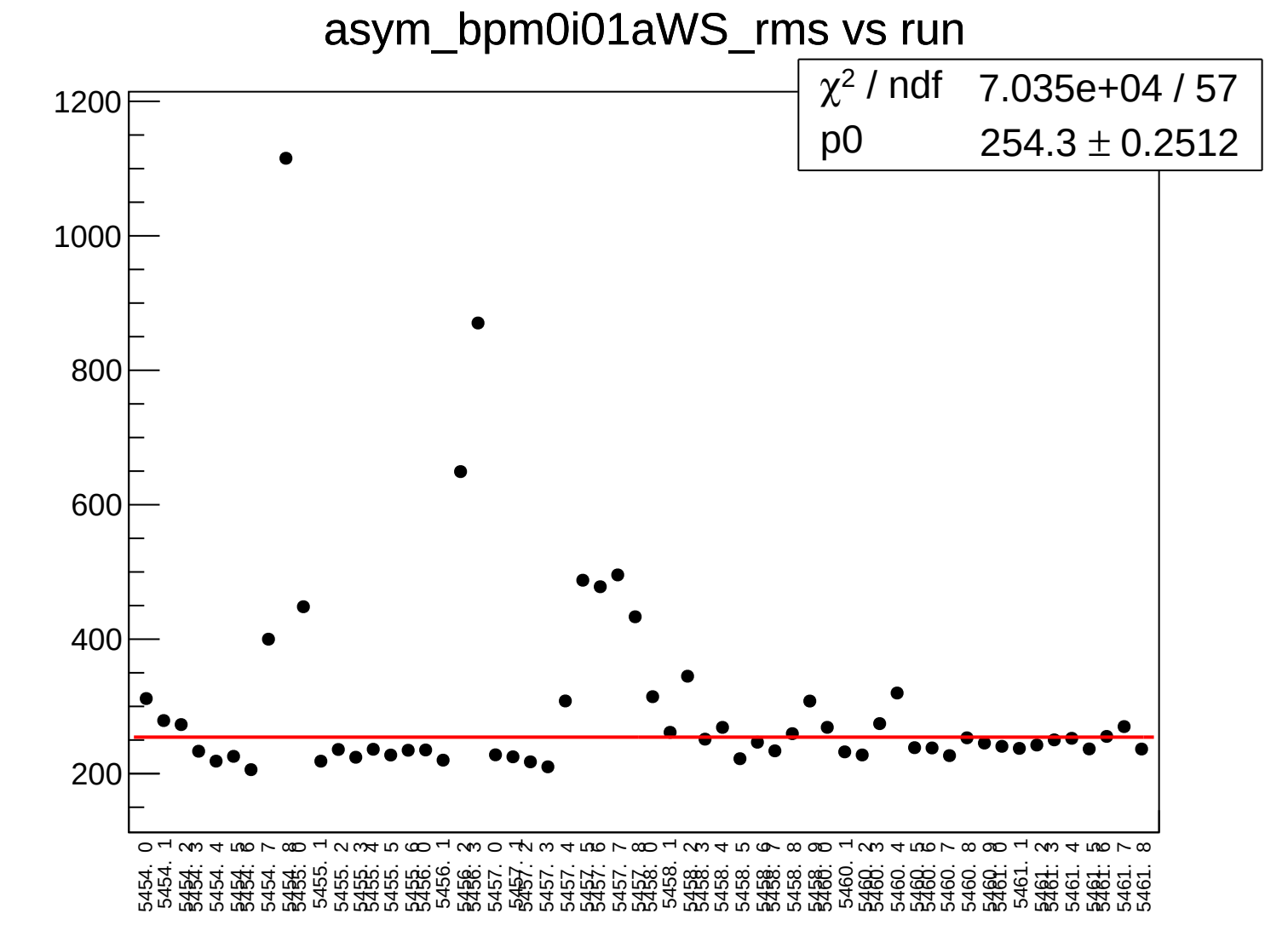

asym_bpm0i01WS_mean vs run
χ² / ndf 262.7 / 57
p0 −4571 ± 372.8
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 58
Mean −502
Std Dev 533.5
4
2
0
−2
−4

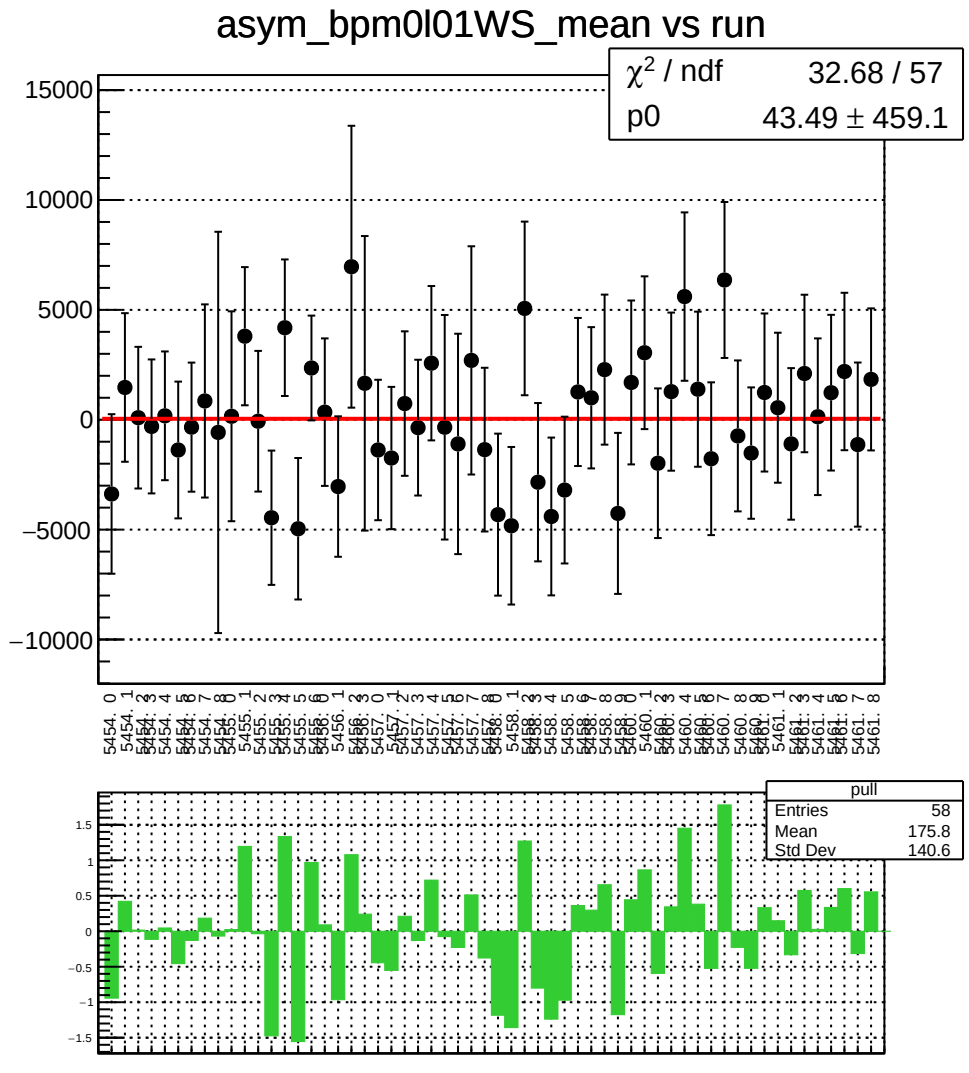

pull1D
Entries 58
Mean −0.05201
Std Dev 2.128
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

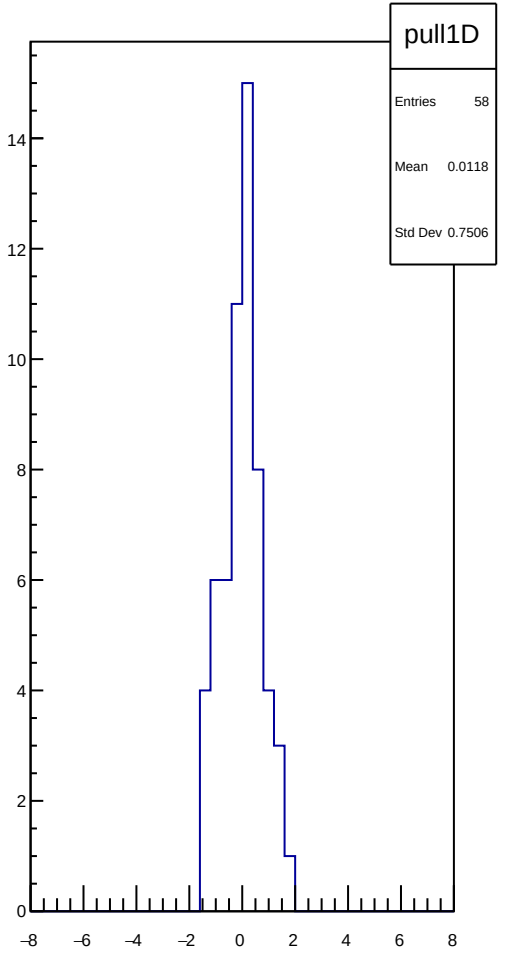

asym_bpm0i01WS_rms vs run
χ² / ndf 6.584e+04 / 57
p0 267.4 ± 0.2636
1200
1000
800
600
400
200

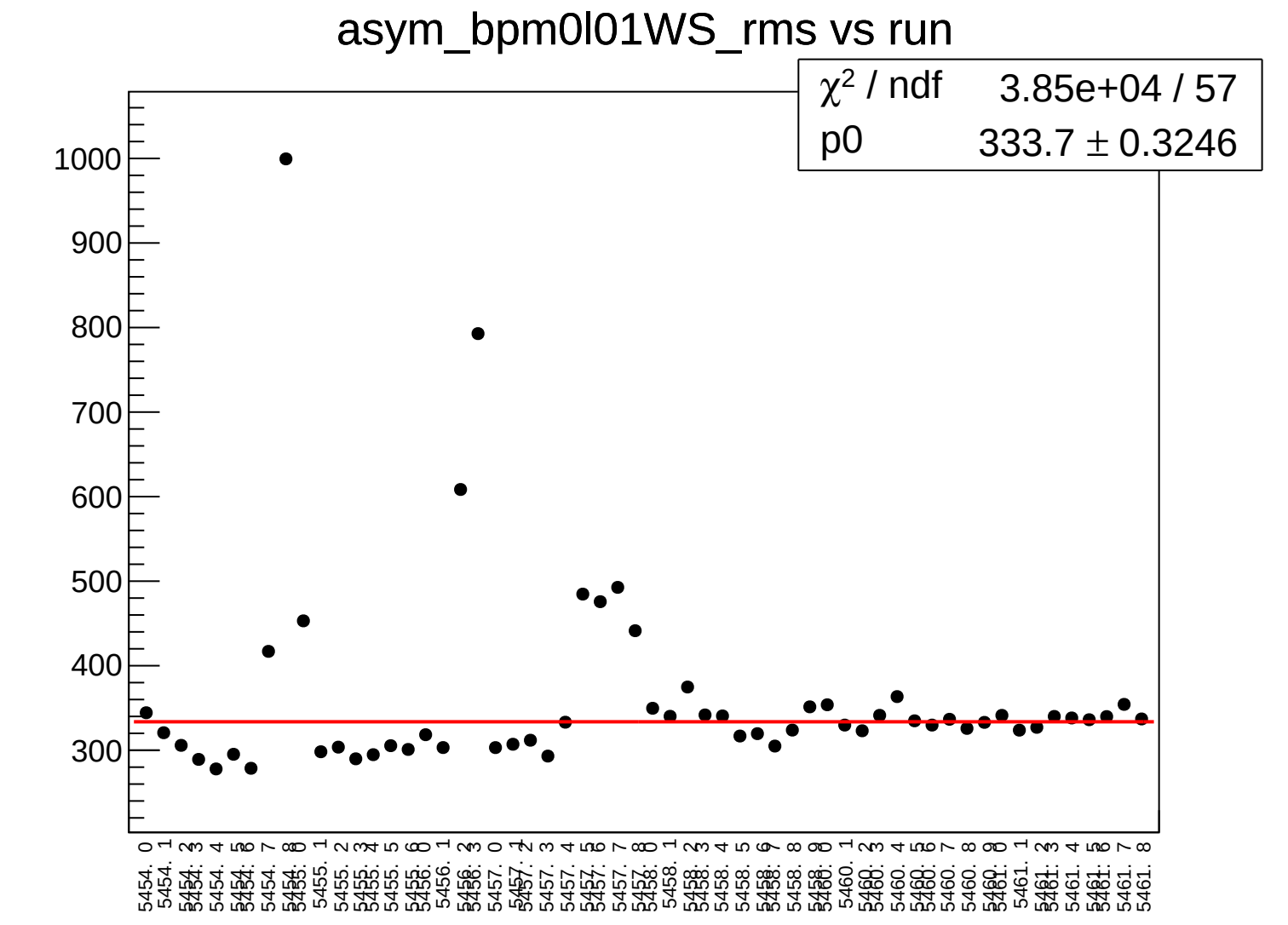

asym_bpm0i01aWS_mean vs run
χ² / ndf 323.1 / 57
p0 −5646 ± 355.3
pull
Entries 58
Mean −487.9
Std Dev 519.2

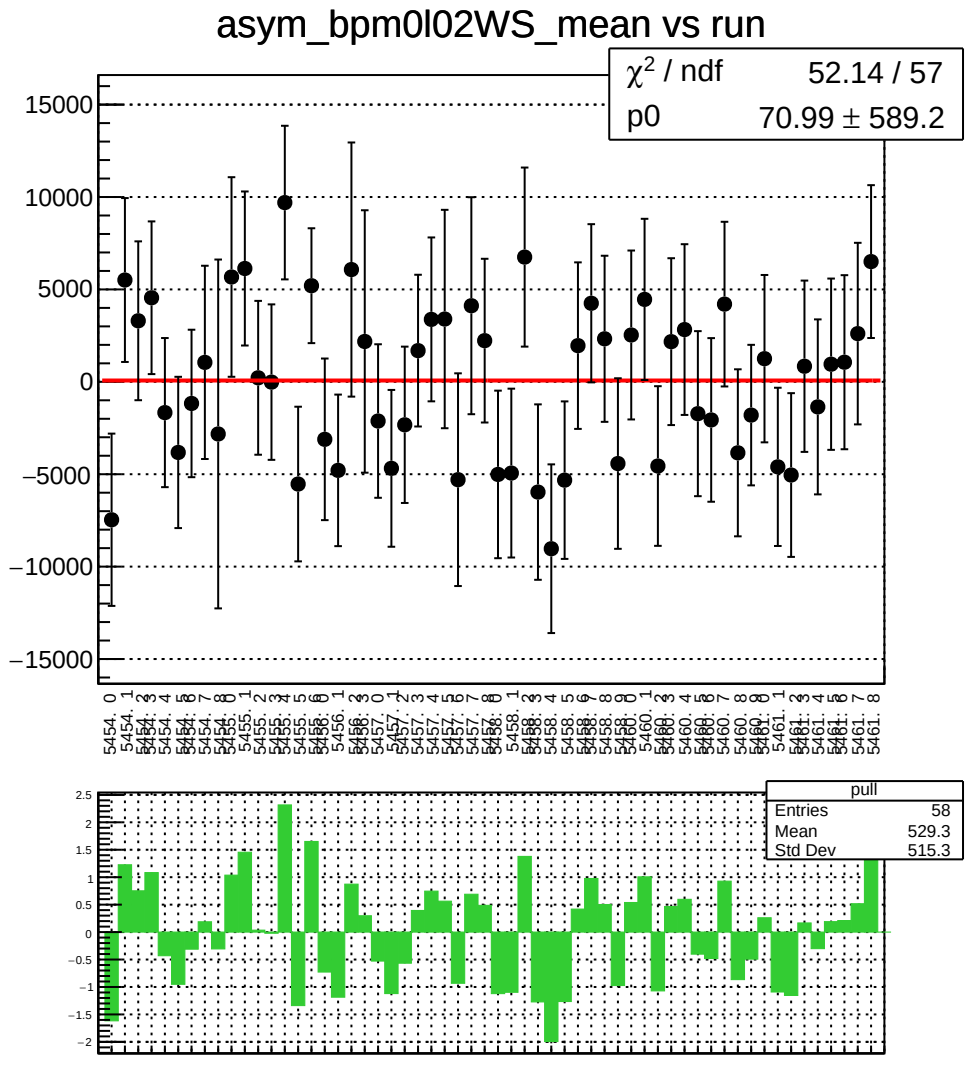

pull1D
Entries 58
Mean −0.06083
Std Dev 2.359

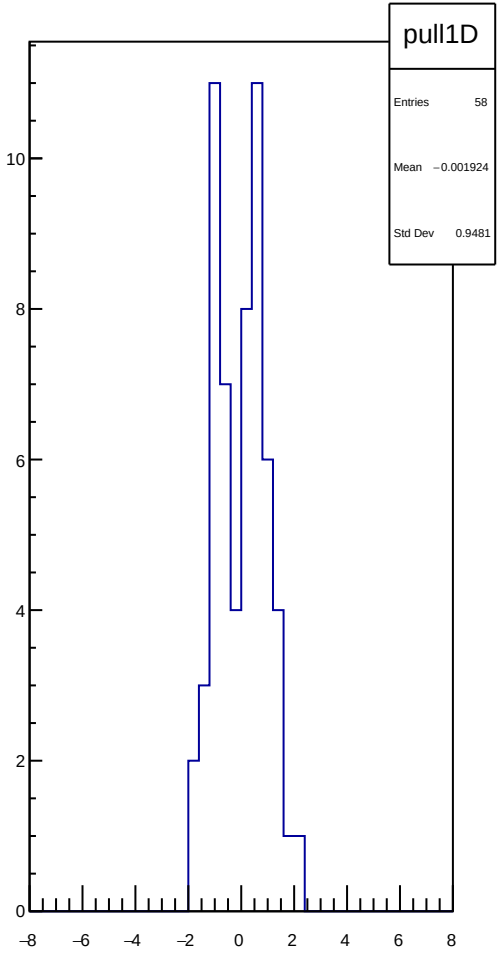

asym_bpm0i01aWS_rms vs run
χ² / ndf 7.035e+04 / 57
p0 254.3 ± 0.2512
1200
1000
800
600
400
200

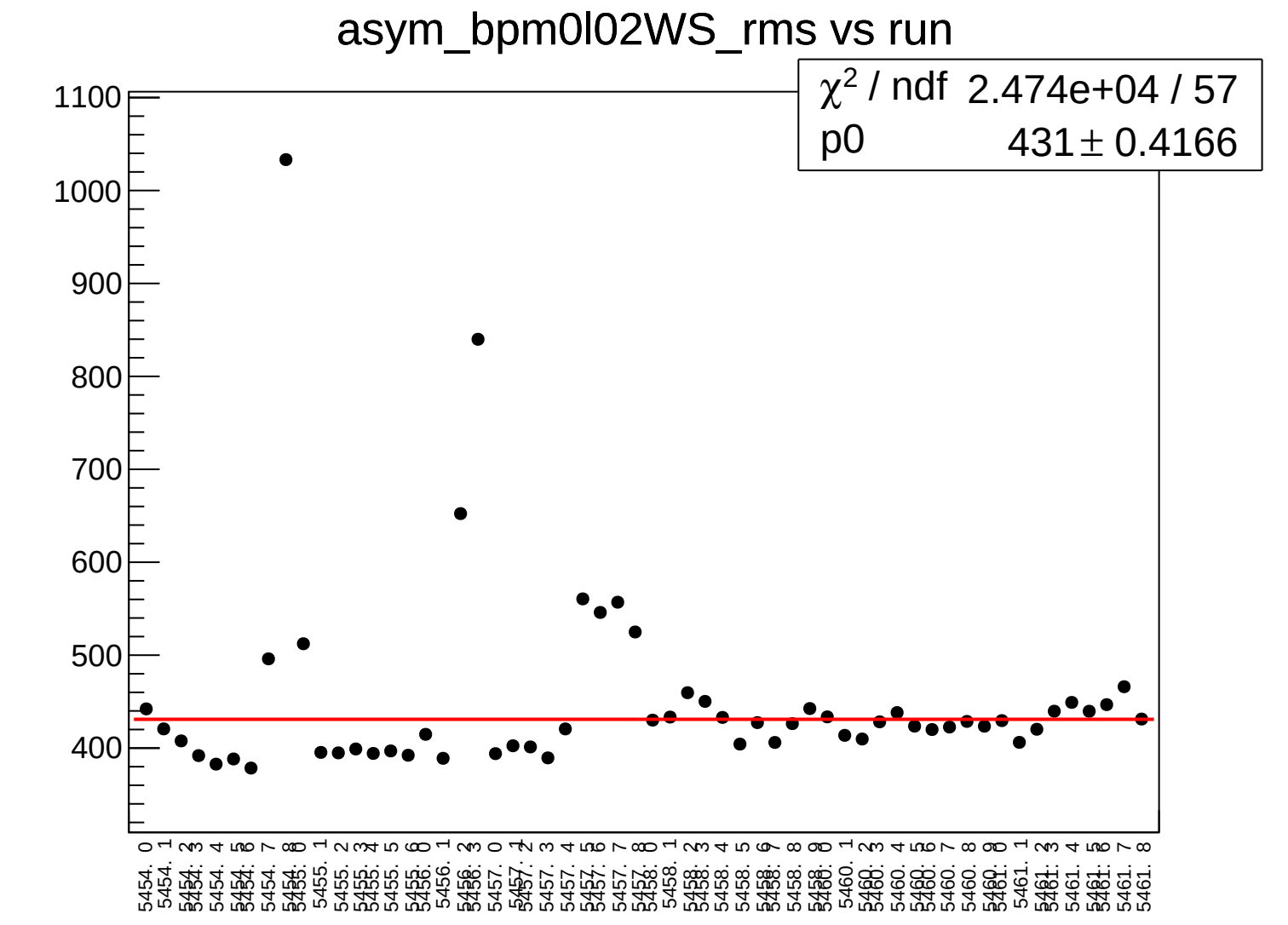

asym_bpm0l01WS_mean vs run
χ² / ndf 32.68 / 57
p0 43.49 ± 459.1
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 175.8
Std Dev 140.6
1.5
1
0.5
0
−0.5
−1
−1.5

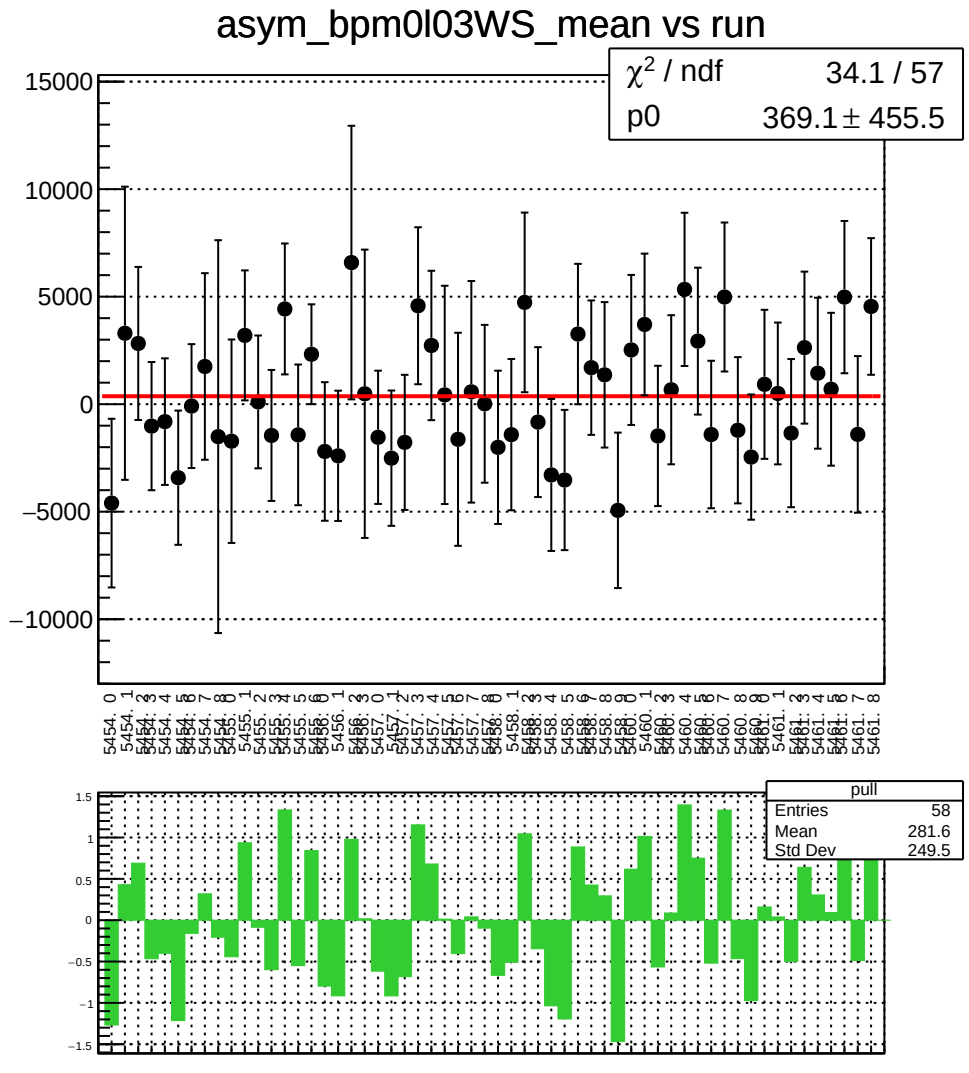

pull1D
Entries 58
Mean 0.0118
Std Dev 0.7506
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

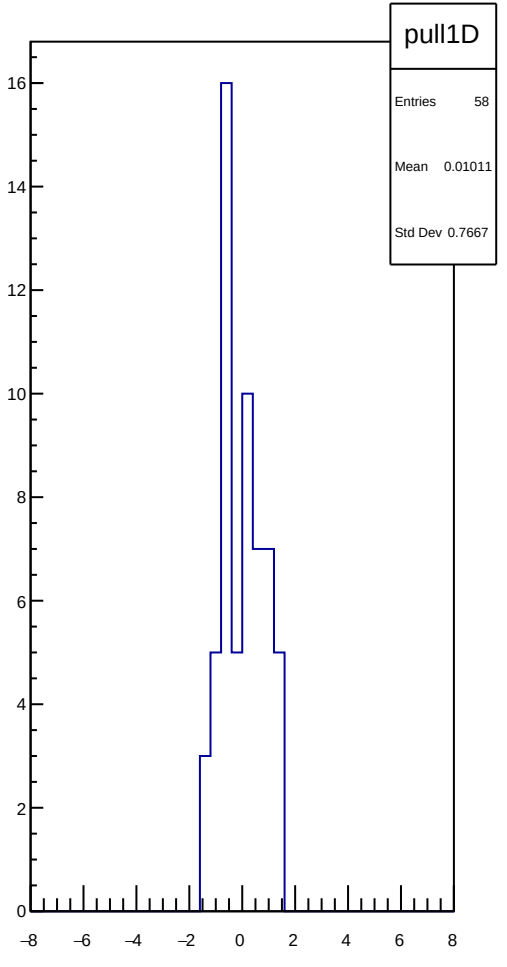

asym_bpm0l01WS_rms vs run
χ² / ndf 3.85e+04 / 57
p0 333.7 ± 0.3246
1000
900
800
700
600
500
400
300

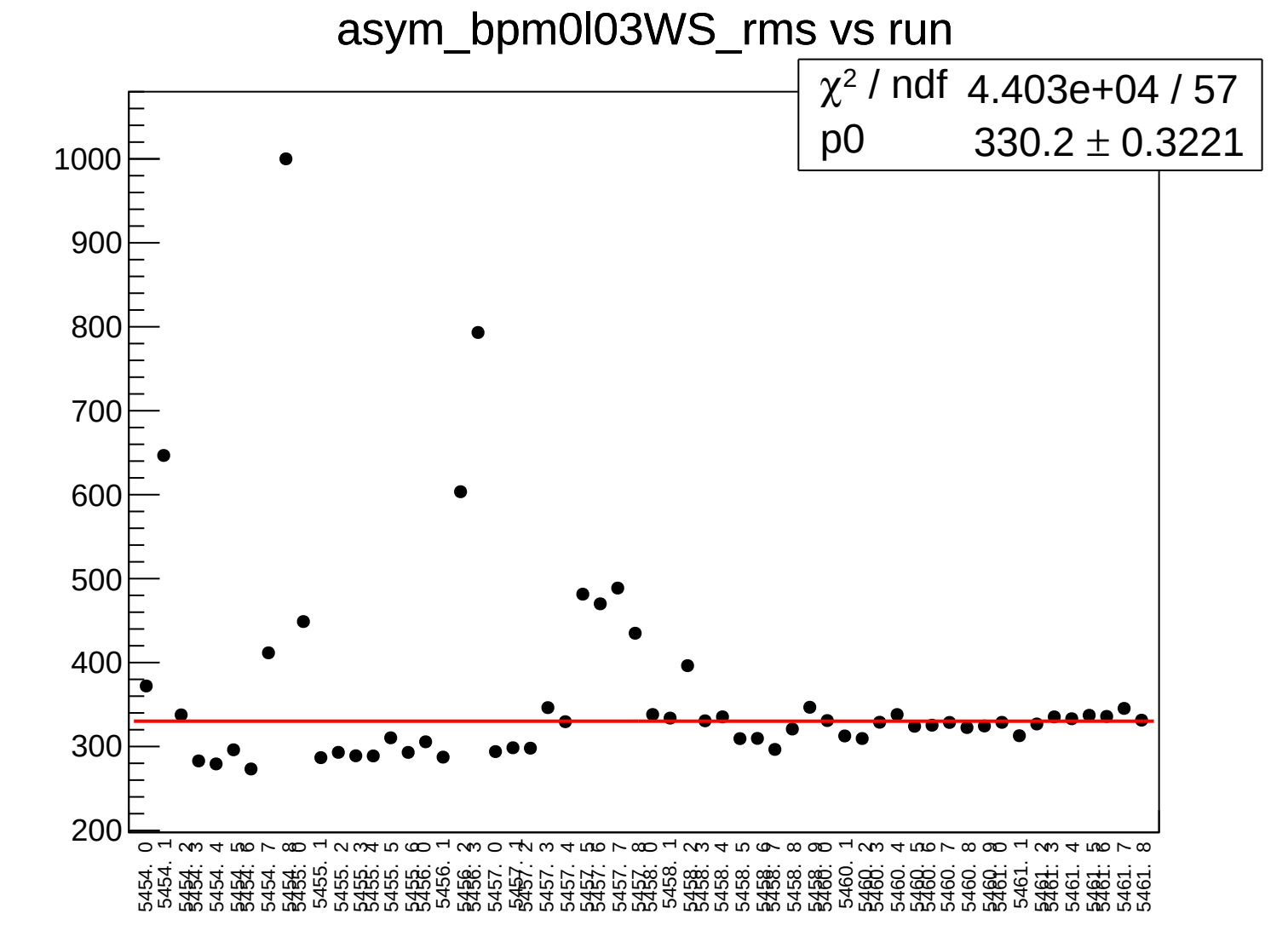

asym_bpm0l02WS_mean vs run
χ² / ndf 52.14 / 57
p0 70.99 ± 589.2
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean 529.3
Std Dev 515.3
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

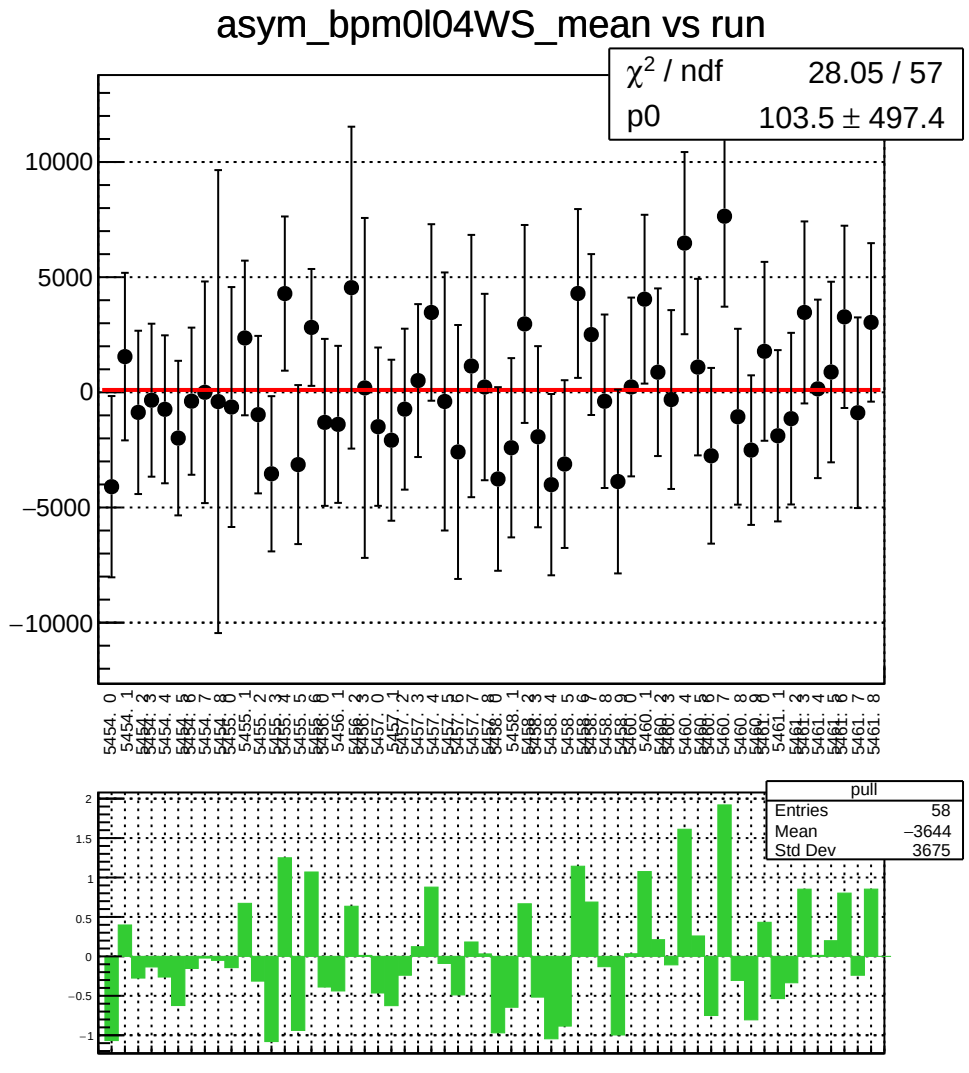

pull1D
Entries 58
Mean −0.001924
Std Dev 0.9481
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

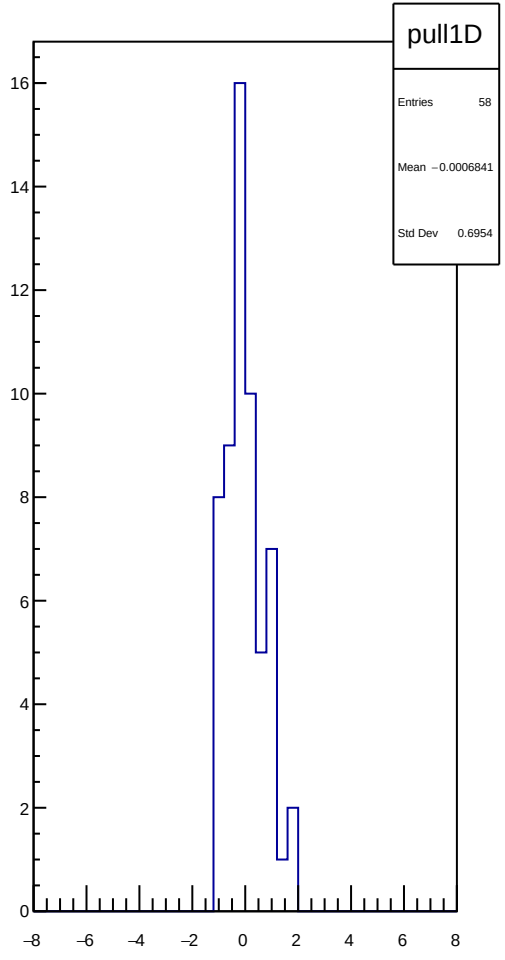

asym_bpm0l02WS_rms vs run
χ² / ndf 2.474e+04 / 57
p0 431 ± 0.4166
1100
1000
900
800
700
600
500
400

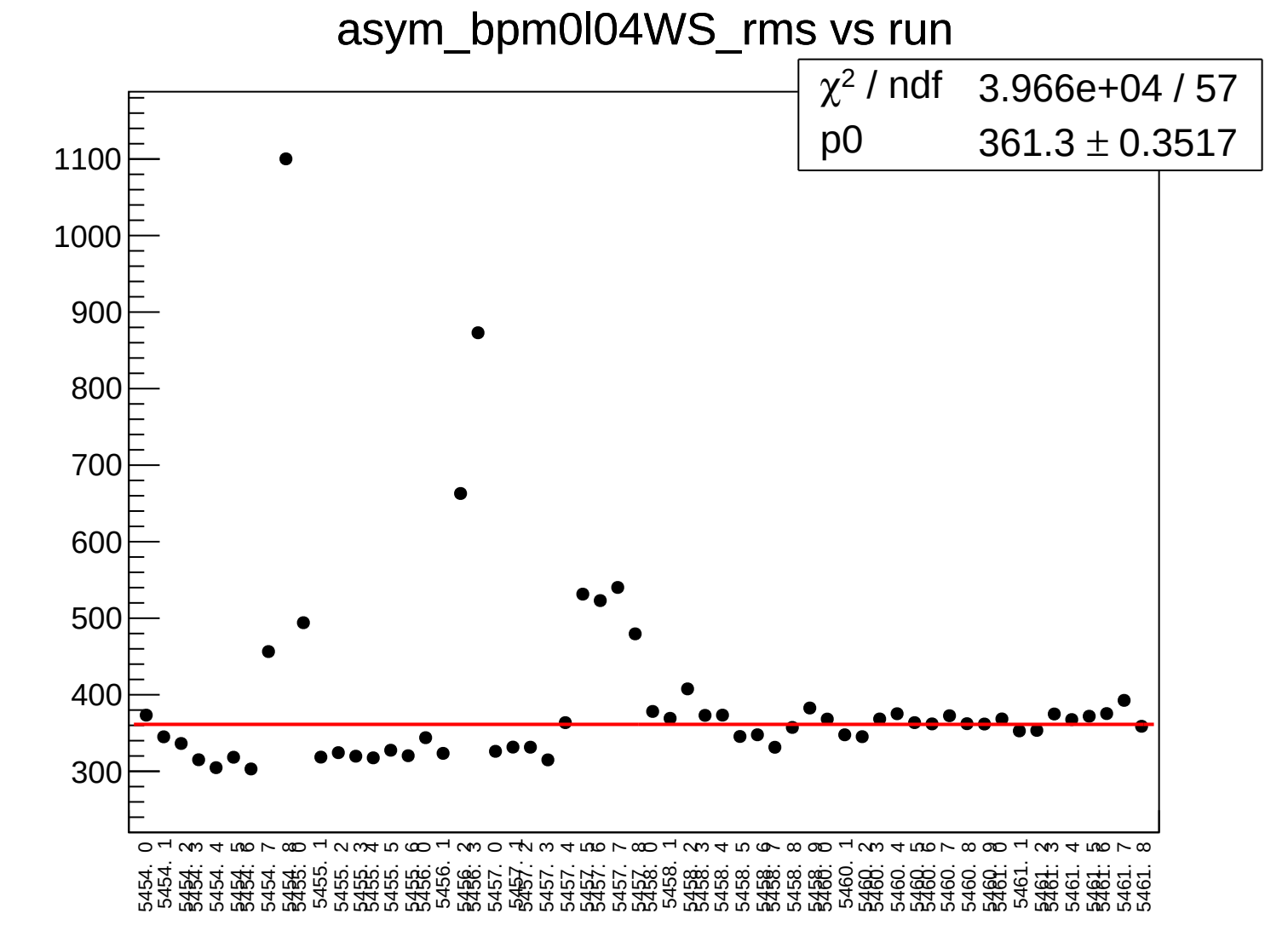

asym_bpm0l03WS_mean vs run
χ² / ndf 34.1 / 57
p0 369.1 ± 455.5
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 281.6
Std Dev 249.5
1.5
1
0.5
0
−0.5
−1
−1.5

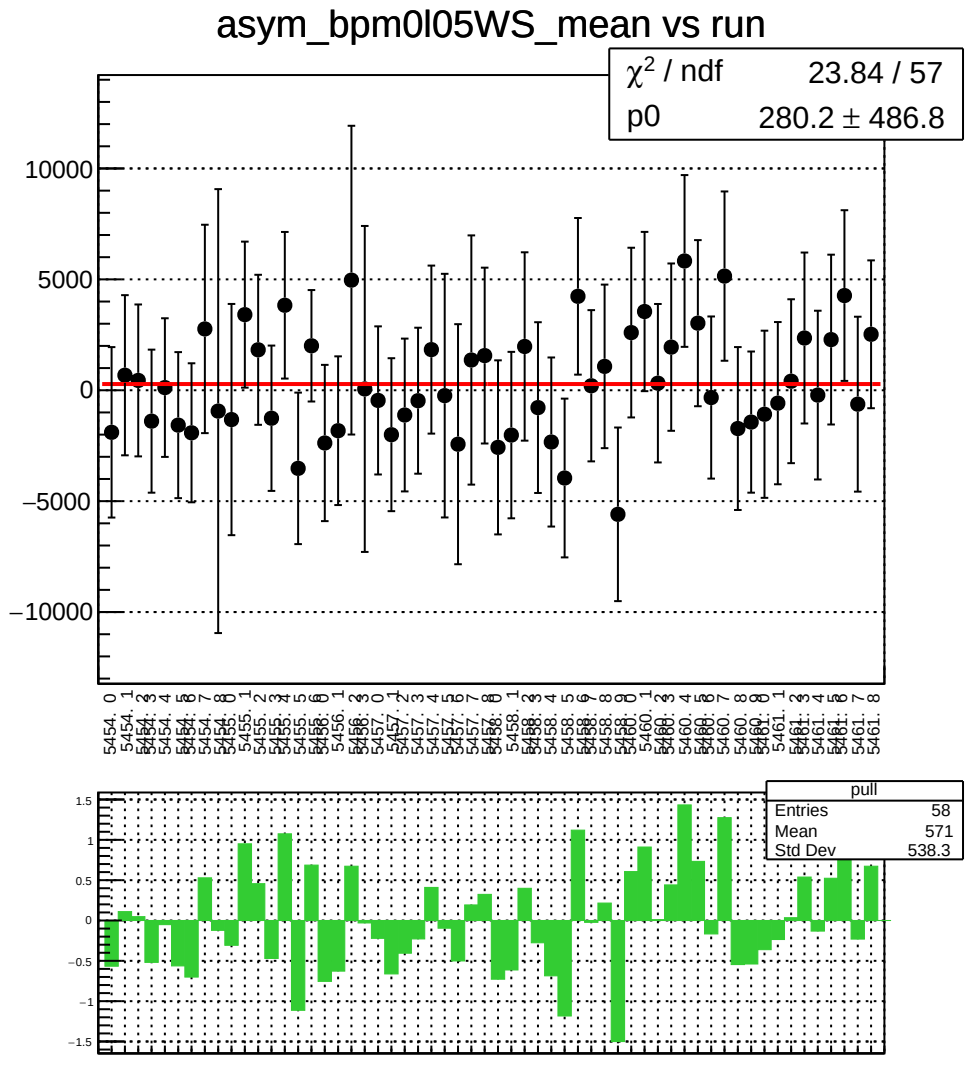

pull1D
Entries 58
Mean 0.01011
Std Dev 0.7667
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

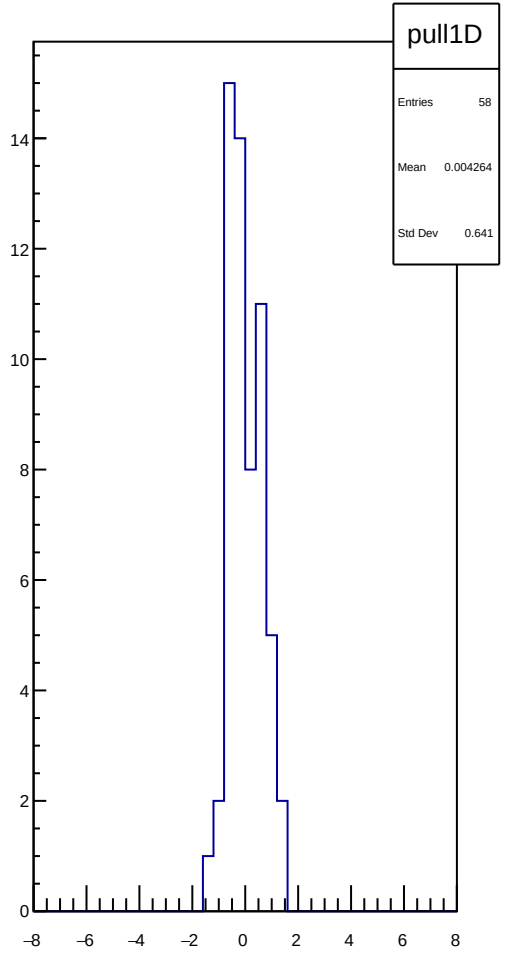

asym_bpm0l03WS_rms vs run
χ² / ndf 4.403e+04 / 57
p0 330.2 ± 0.3221
1000
900
800
700
600
500
400
300
200

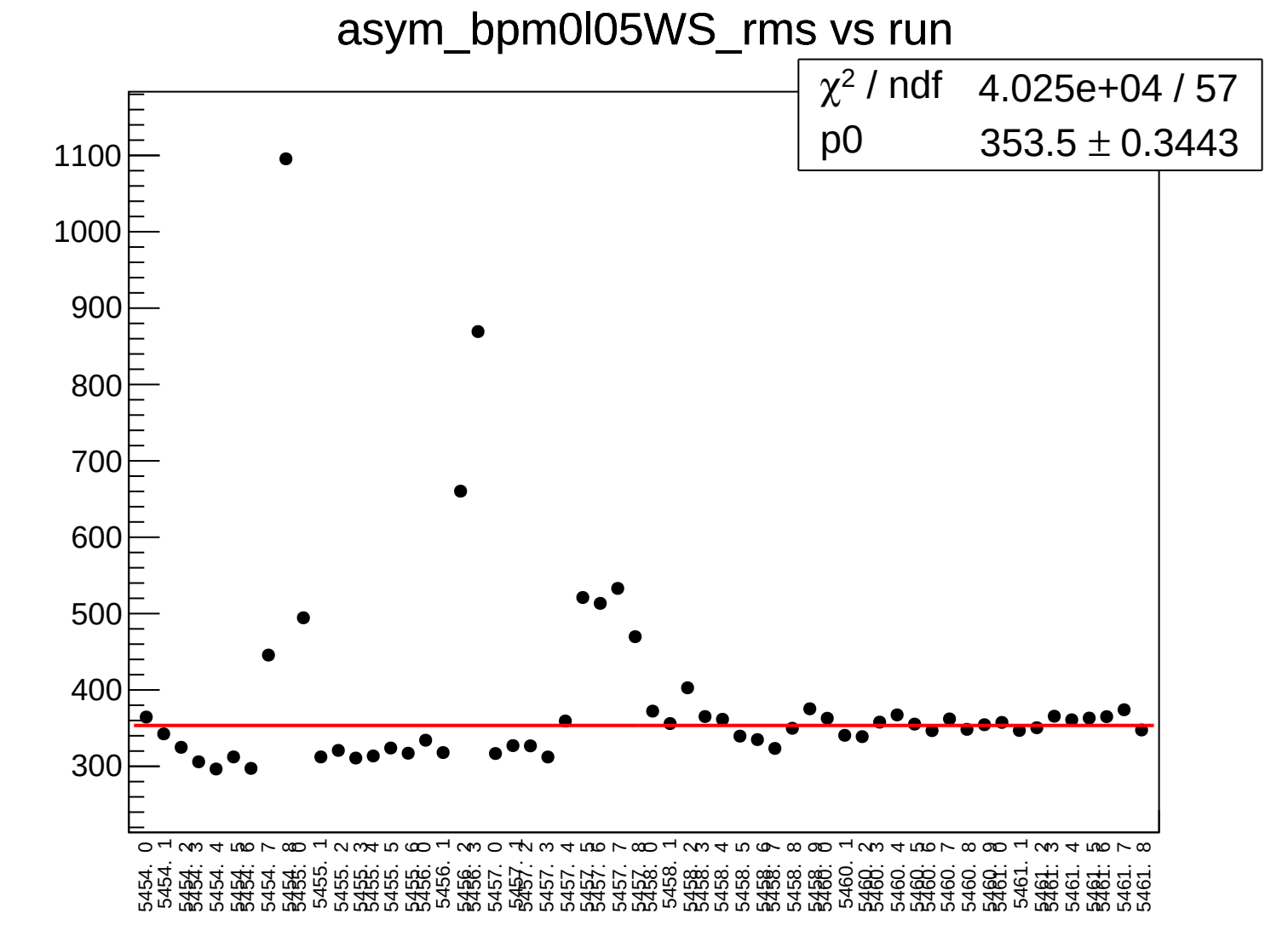

asym_bpm0l04WS_mean vs run
χ² / ndf 28.05 / 57
p0 103.5 ± 497.4
10000
5000
0
−5000
−10000
pull
Entries 58
Mean −3644
Std Dev 3675
2
1.5
1
0.5
0
−0.5
−1

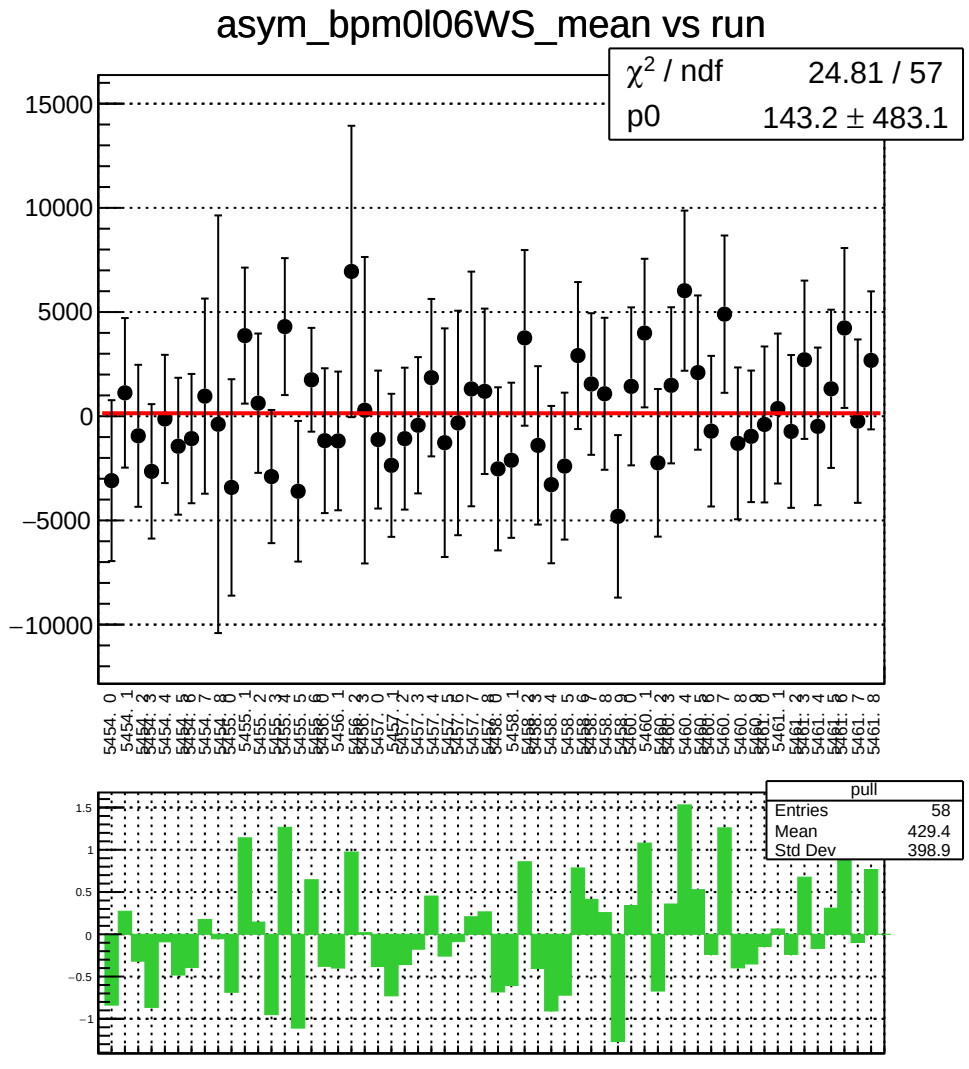

pull1D
Entries 58
Mean −0.0006841
Std Dev 0.6954
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

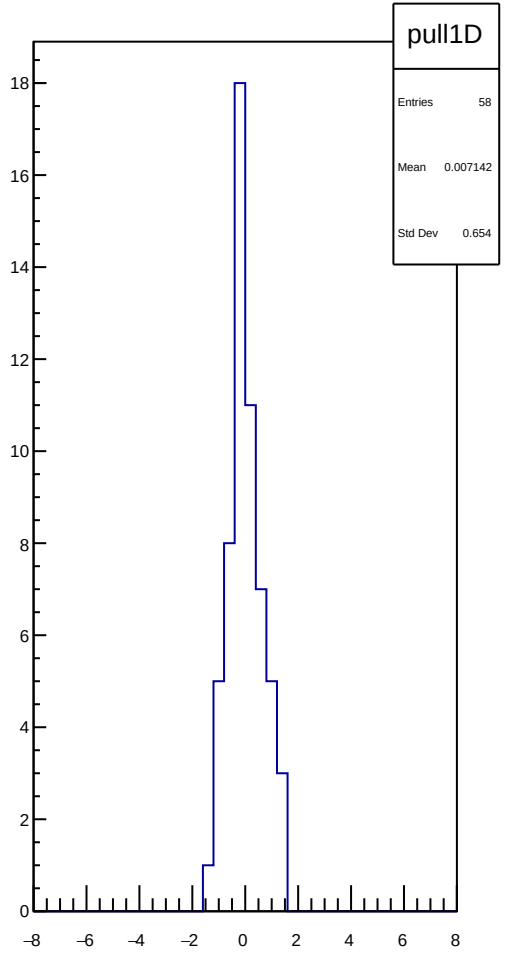

asym_bpm0l04WS_rms vs run
χ² / ndf 3.966e+04 / 57
p0 361.3 ± 0.3517
1100
1000
900
800
700
600
500
400
300

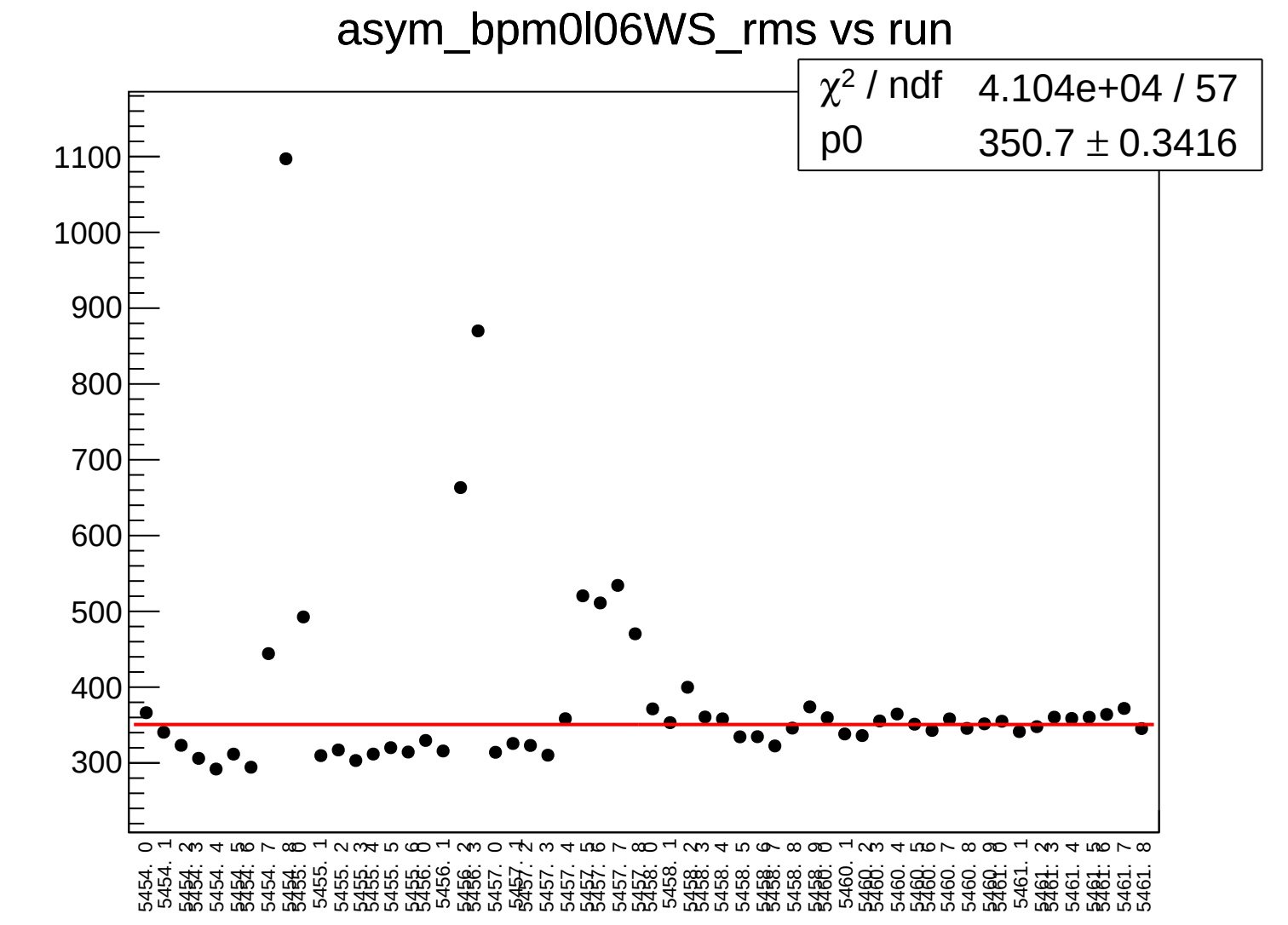

asym_bpm0l05WS_mean vs run
χ² / ndf 23.84 / 57
p0 280.2 ± 486.8
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 571
Std Dev 538.3
1.5
1
0.5
0
−0.5
−1
−1.5

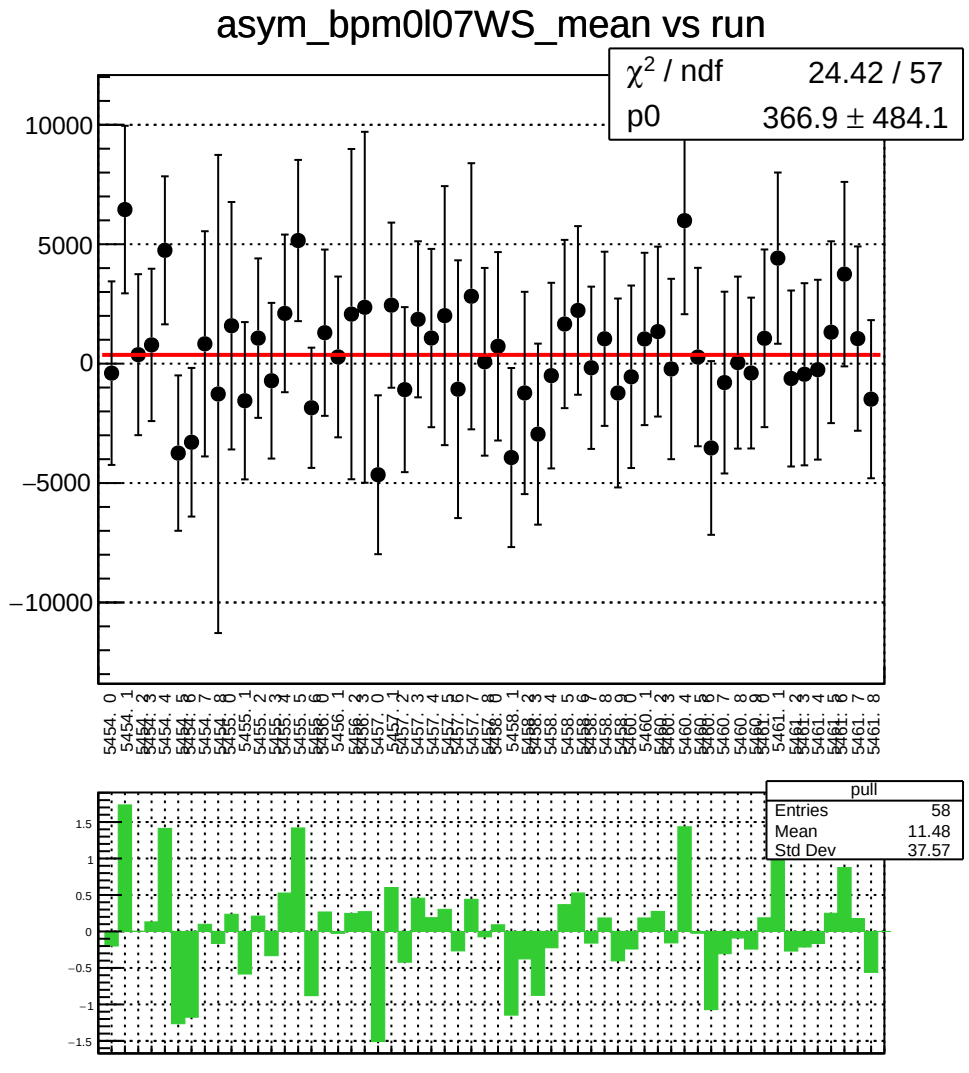

pull1D
Entries 58
Mean 0.004264
Std Dev 0.641
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

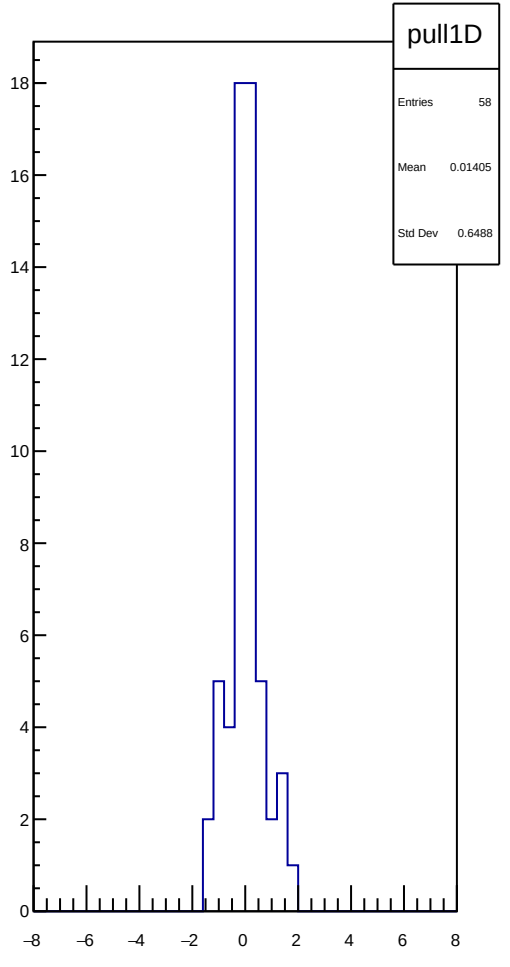

asym_bpm0l05WS_rms vs run
χ² / ndf 4.025e+04 / 57
p0 353.5 ± 0.3443
1100
1000
900
800
700
600
500
400
300
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

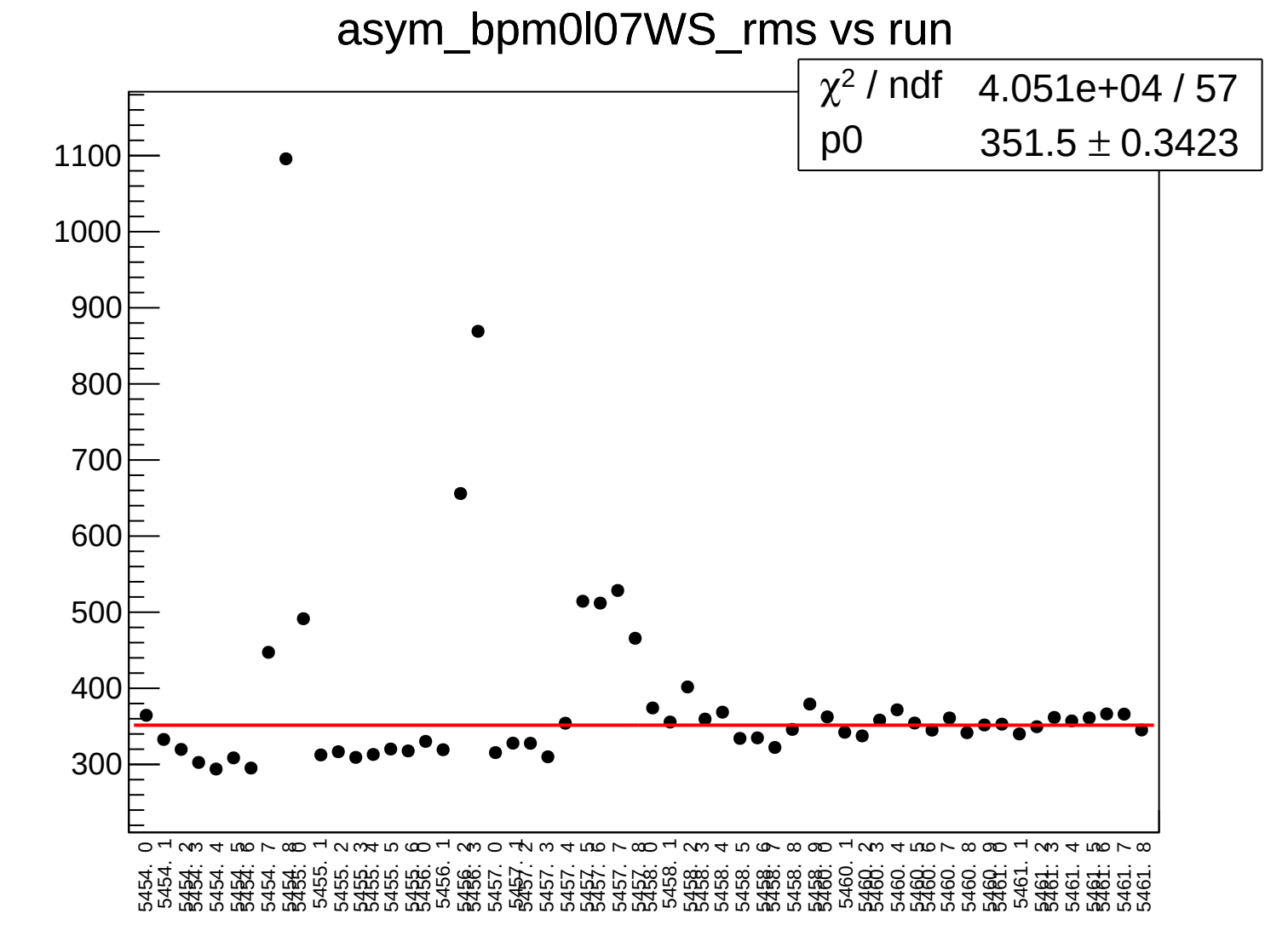

asym_bpm0l06WS_mean vs run
χ² / ndf 24.81 / 57
p0 143.2 ± 483.1
15000
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 429.4
Std Dev 398.9
1.5
1
0.5
0
−0.5
−1

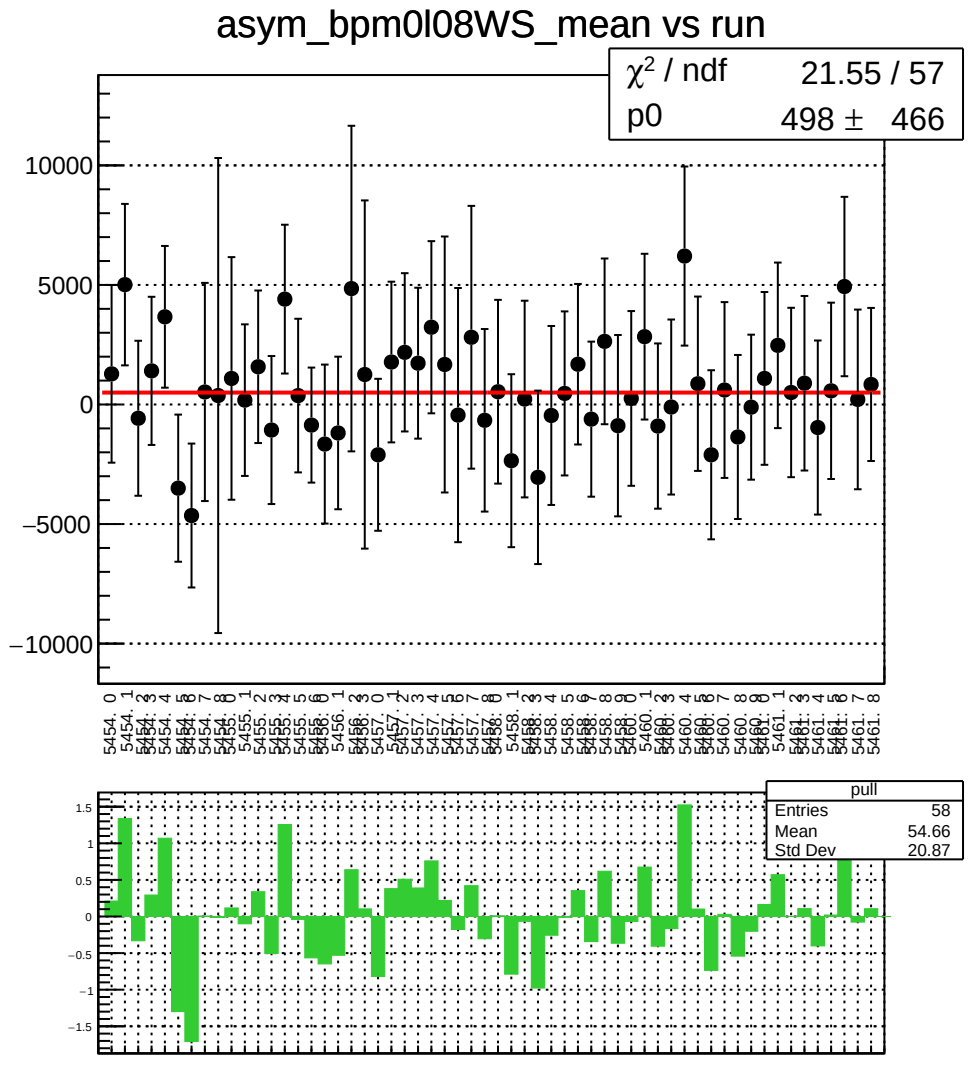

pull1D
Entries 58
Mean 0.007142
Std Dev 0.654
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

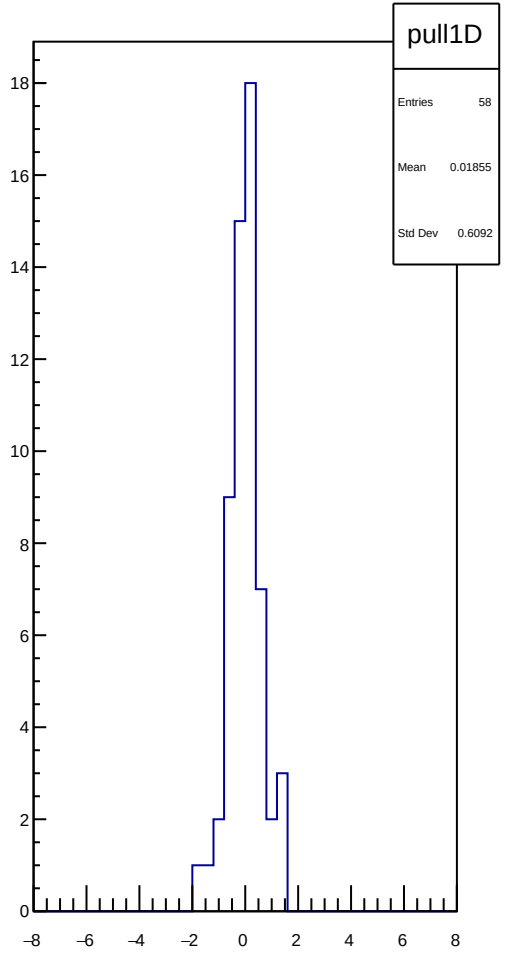

asym_bpm0l06WS_rms vs run
χ² / ndf 4.104e+04 / 57
p0 350.7 ± 0.3416
1100
1000
900
800
700
600
500
400
300

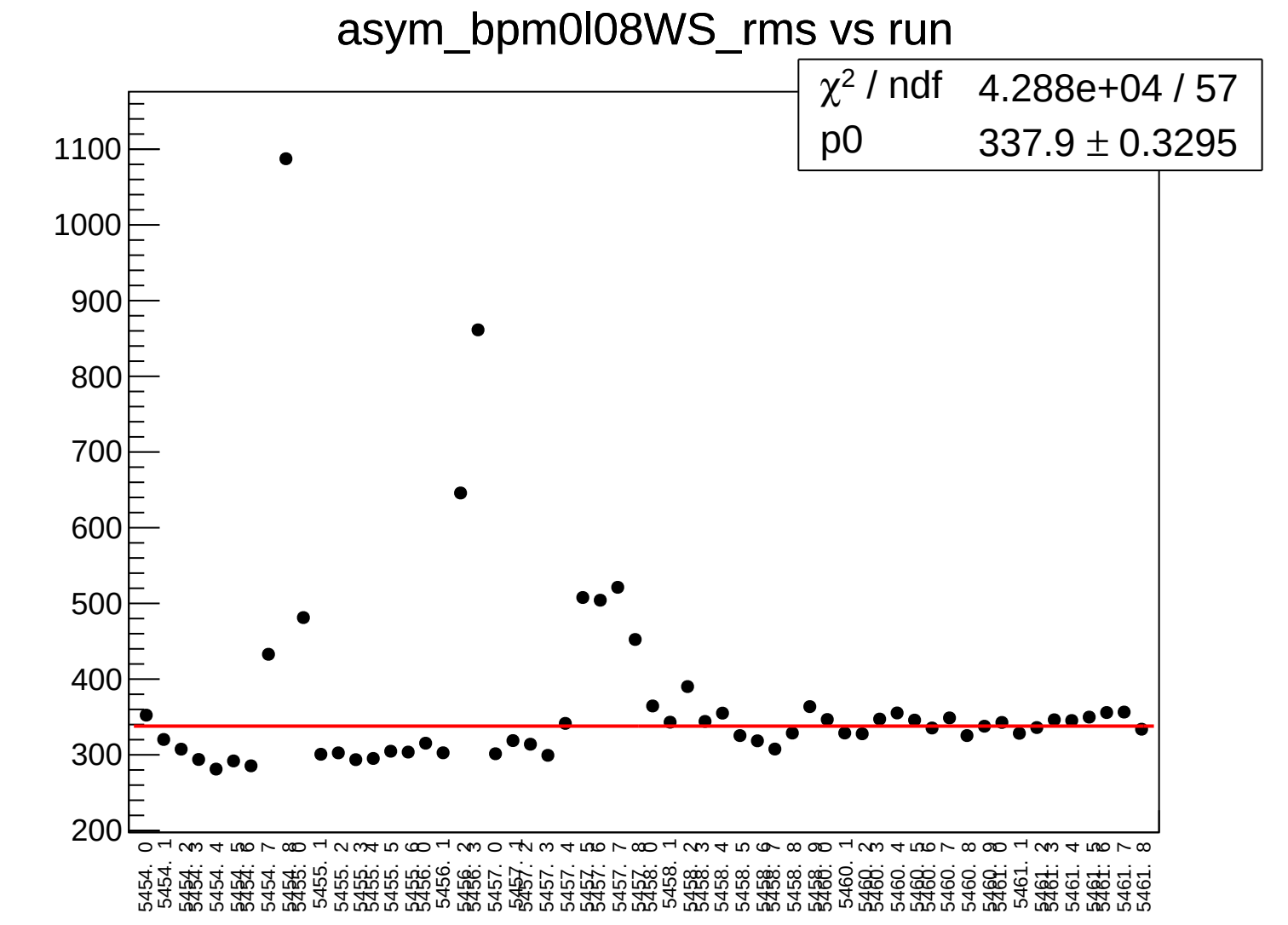

asym_bpm0l07WS_mean vs run
χ² / ndf 24.42 / 57
p0 366.9 ± 484.1
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 11.48
Std Dev 37.57
1.5
1
0.5
0
−0.5
−1
−1.5

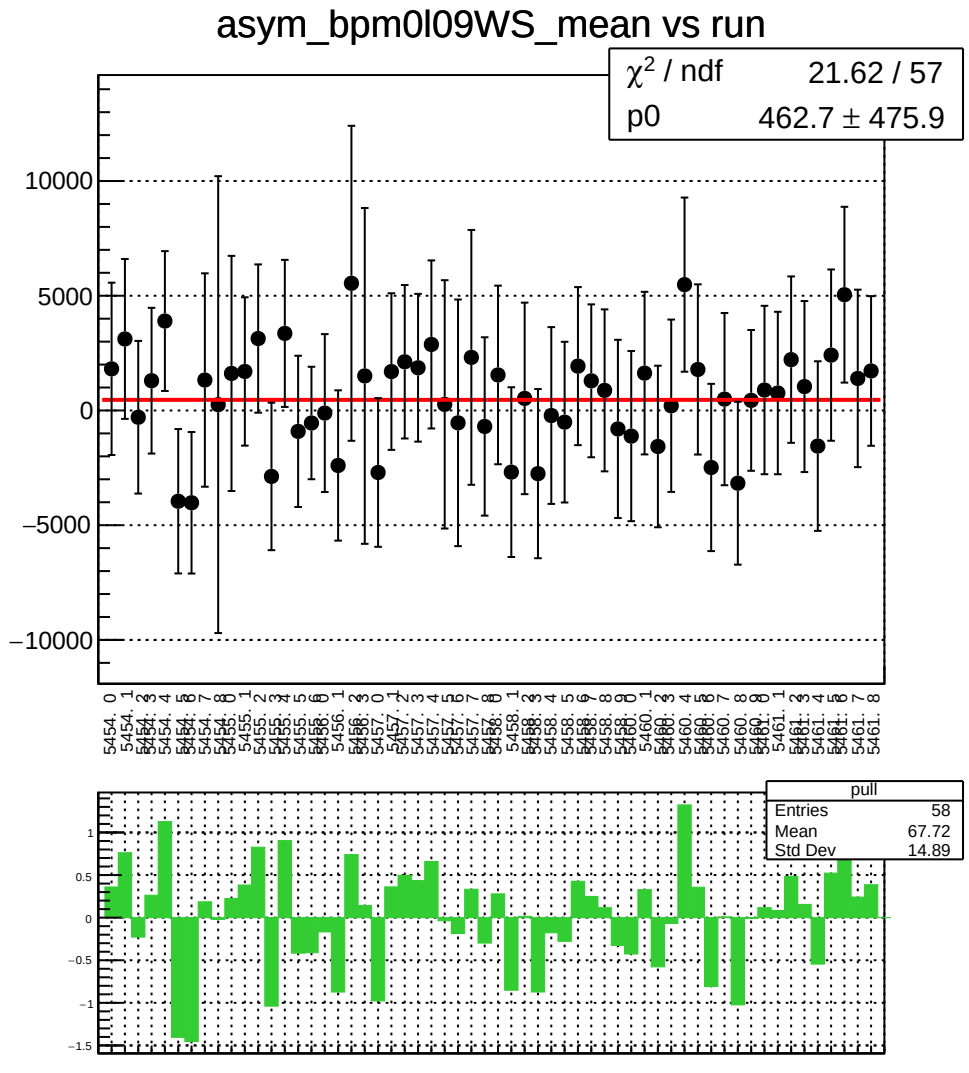

pull1D
Entries 58
Mean 0.01405
Std Dev 0.6488
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

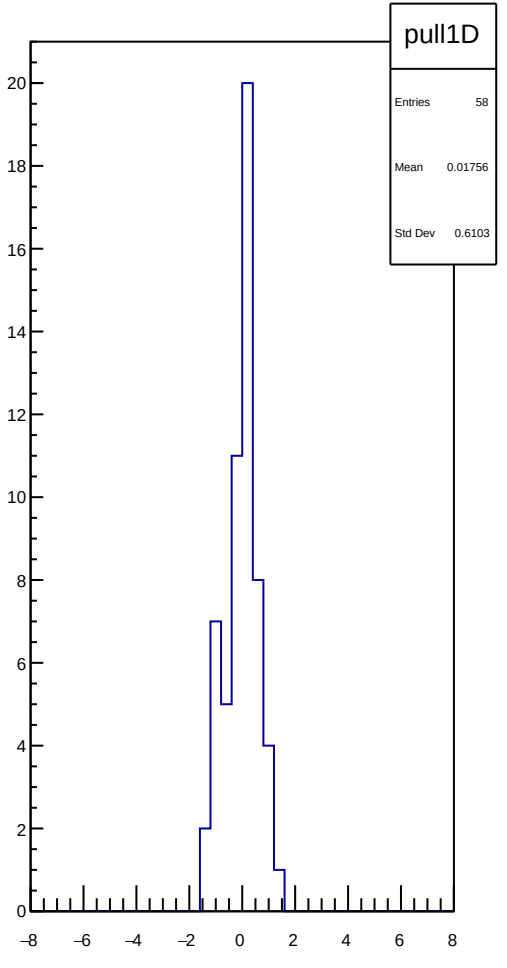

asym_bpm0l07WS_rms vs run
χ² / ndf 4.051e+04 / 57
p0 351.5 ± 0.3423
1100
1000
900
800
700
600
500
400
300

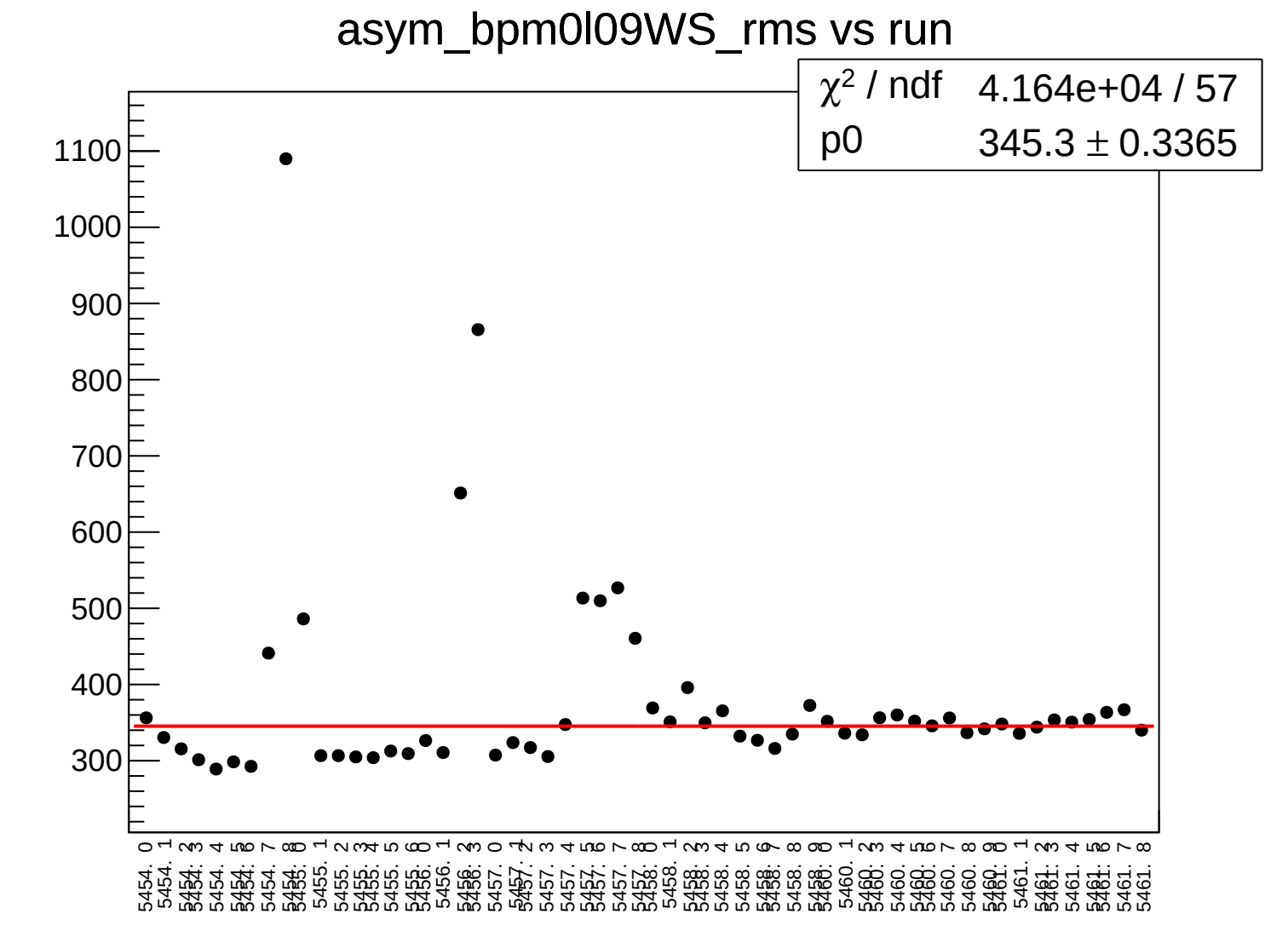

asym_bpm0l08WS_mean vs run
χ² / ndf 21.55 / 57
p0 498 ± 466
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 54.66
Std Dev 20.87
1.5
1
0.5
0
−0.5
−1
−1.5

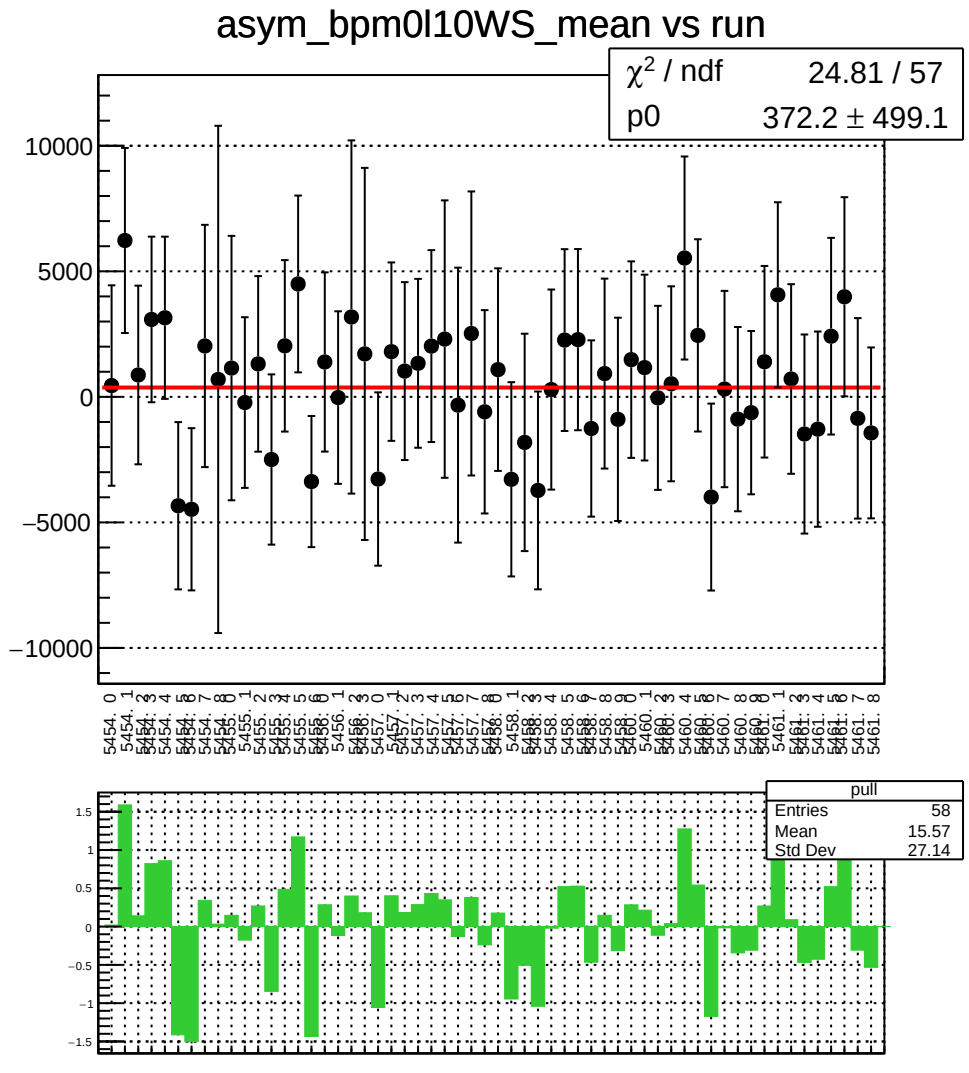

pull1D
Entries 58
Mean 0.01855
Std Dev 0.6092
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

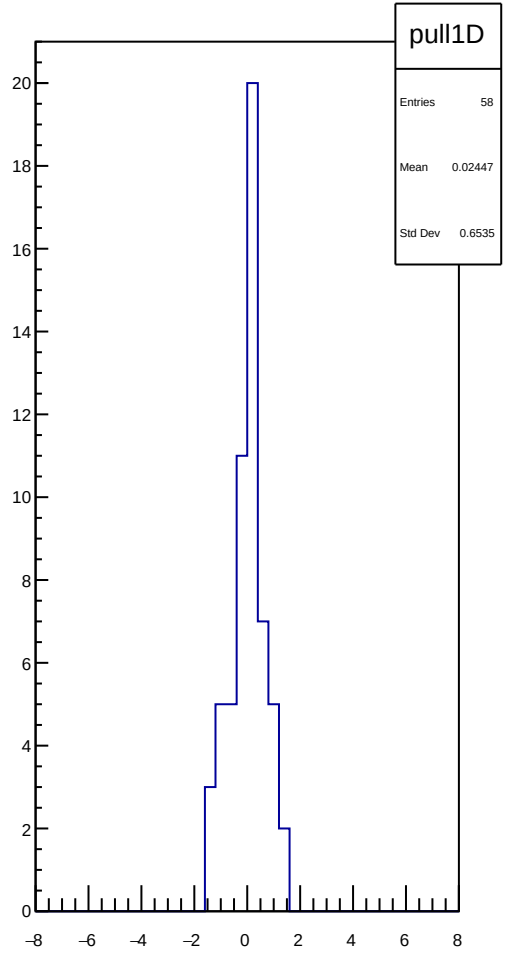

asym_bpm0l08WS_rms vs run
χ² / ndf 4.288e+04 / 57
p0 337.9 ± 0.3295
1100
1000
900
800
700
600
500
400
300
200

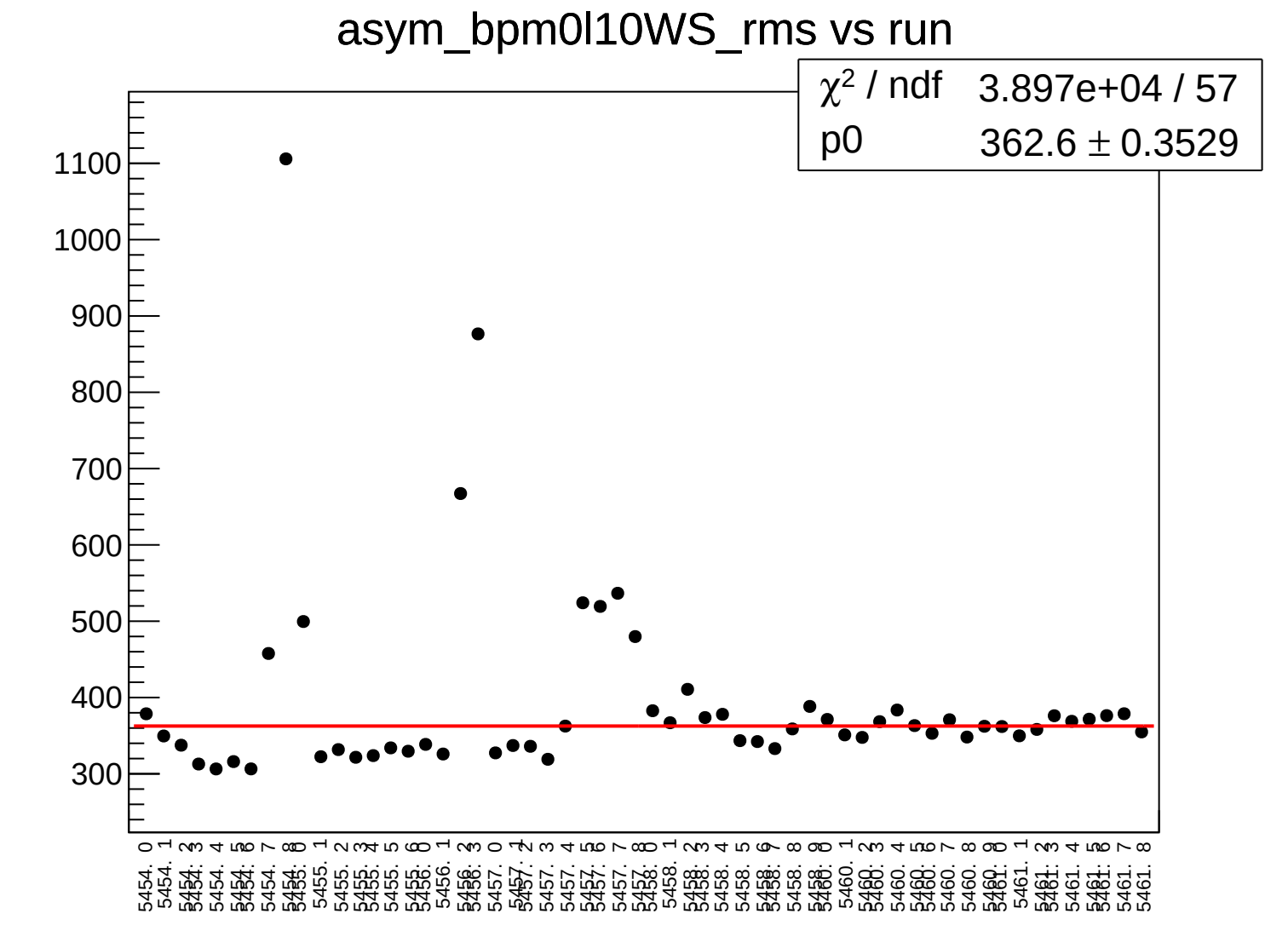

asym_bpm0l09WS_mean vs run
χ^2 / ndf 21.62 / 57
p0 462.7 ± 475.9
10000
5000
0
−5000
−10000
pull
Entries 58
Mean 67.72
Std Dev 14.89
1
0.5
0
−0.5
−1
−1.5

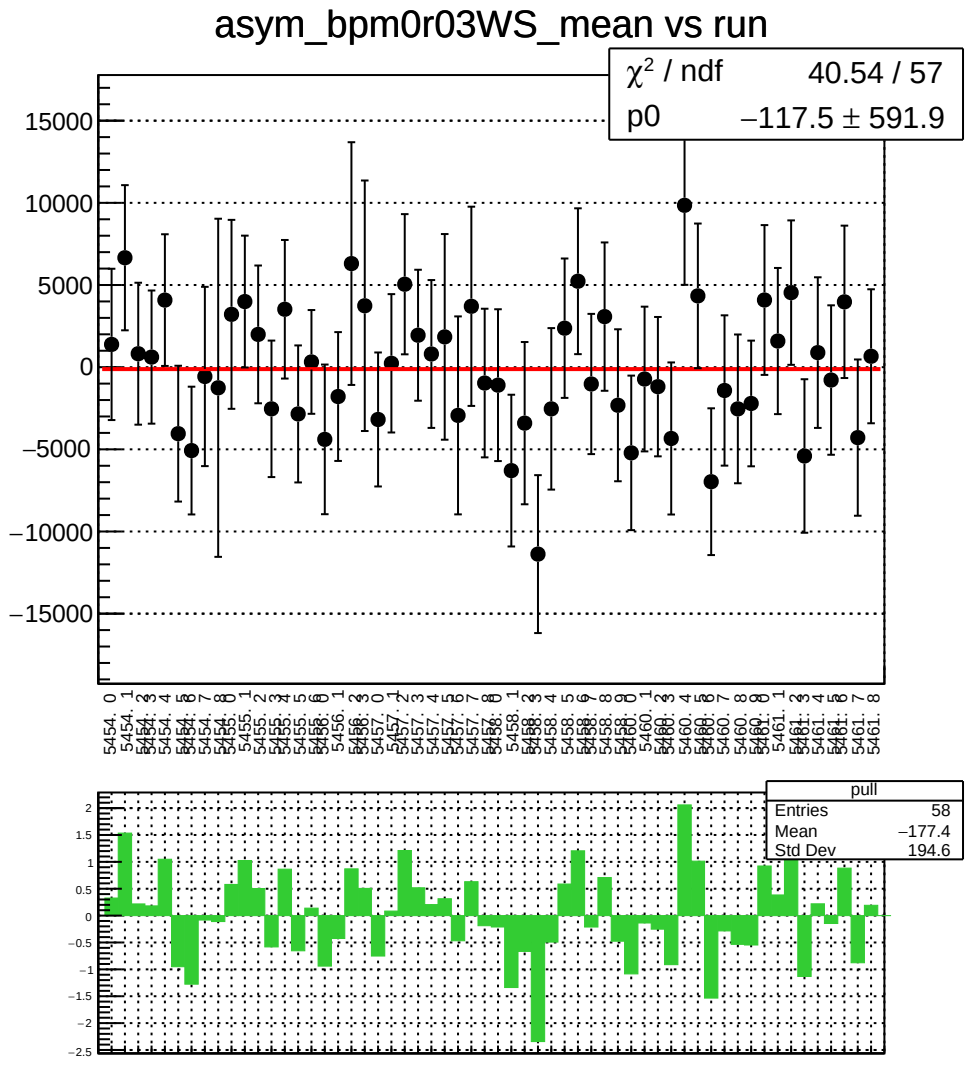

pull1D
Entries 58
Mean 0.01756
Std Dev 0.6103
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

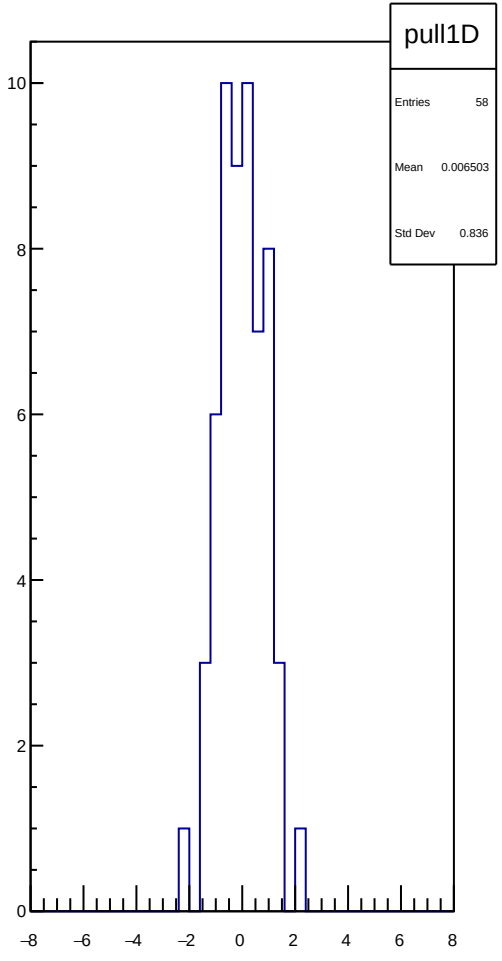

asym_bpm0l09WS_rms vs run
χ² / ndf 4.164e+04 / 57
p0 345.3 ± 0.3365
1100
1000
900
800
700
600
500
400
300

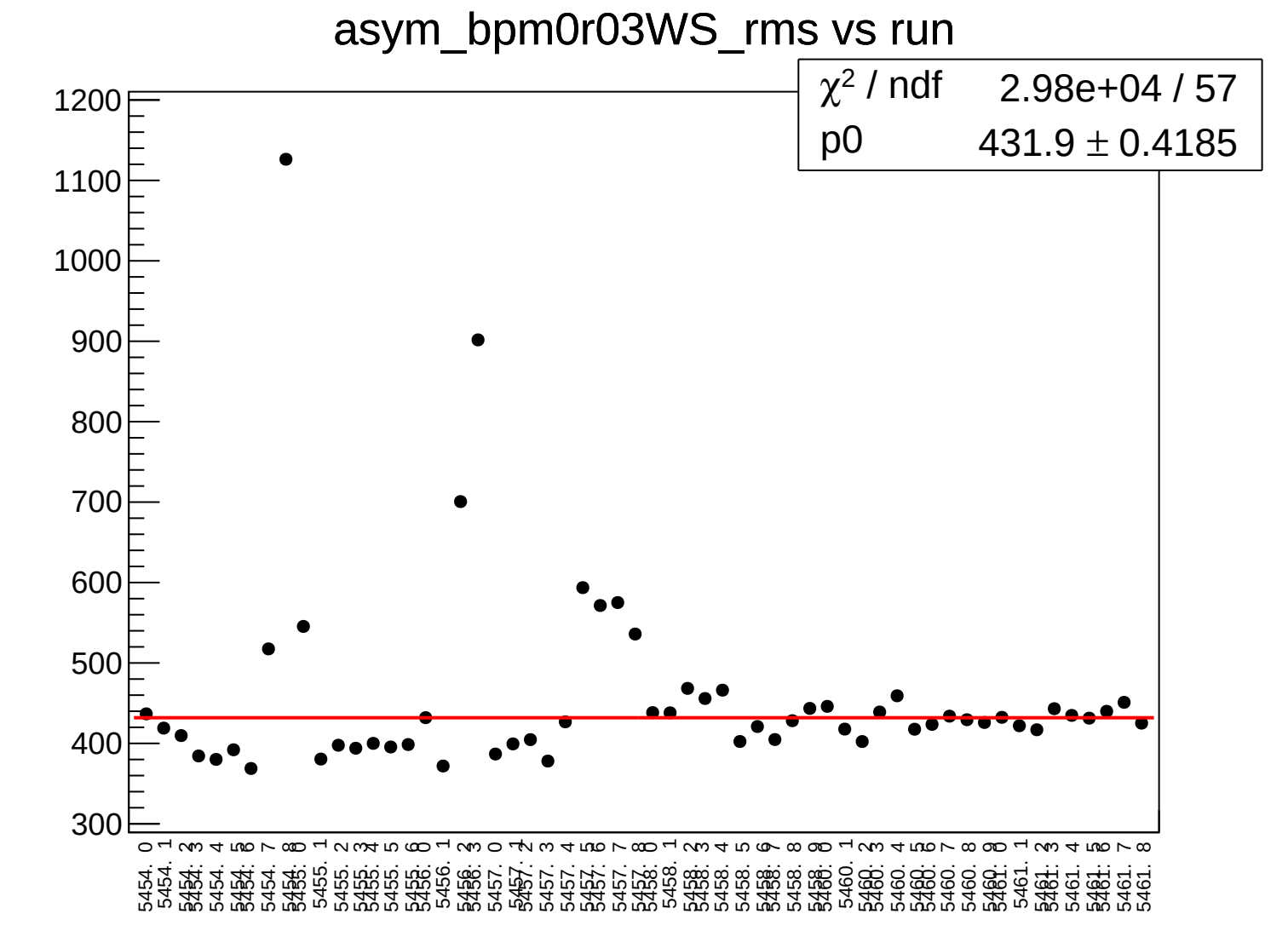

asym_bpm0l10WS_mean vs run
χ² / ndf 24.81 / 57
p0 372.2 ± 499.1
pull
Entries 58
Mean 15.57
Std Dev 27.14

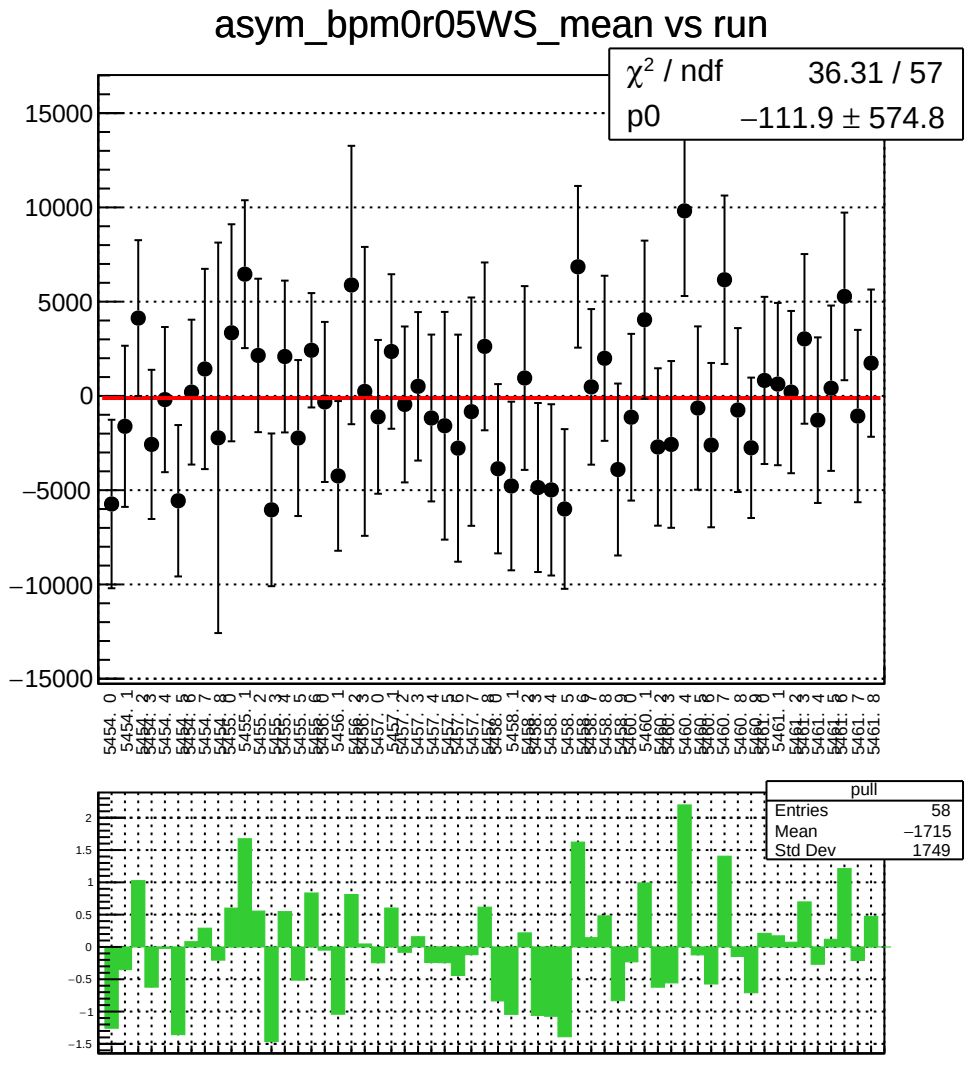

pull1D
Entries 58
Mean 0.02447
Std Dev 0.6535

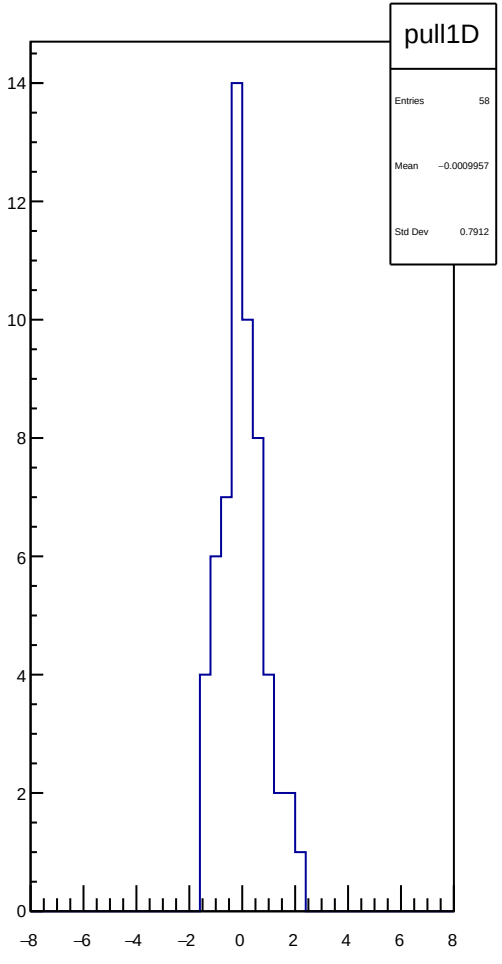

asym_bpm0l10WS_rms vs run
χ² / ndf 3.897e+04 / 57
p0 362.6 ± 0.3529
1100
1000
900
800
700
600
500
400
300

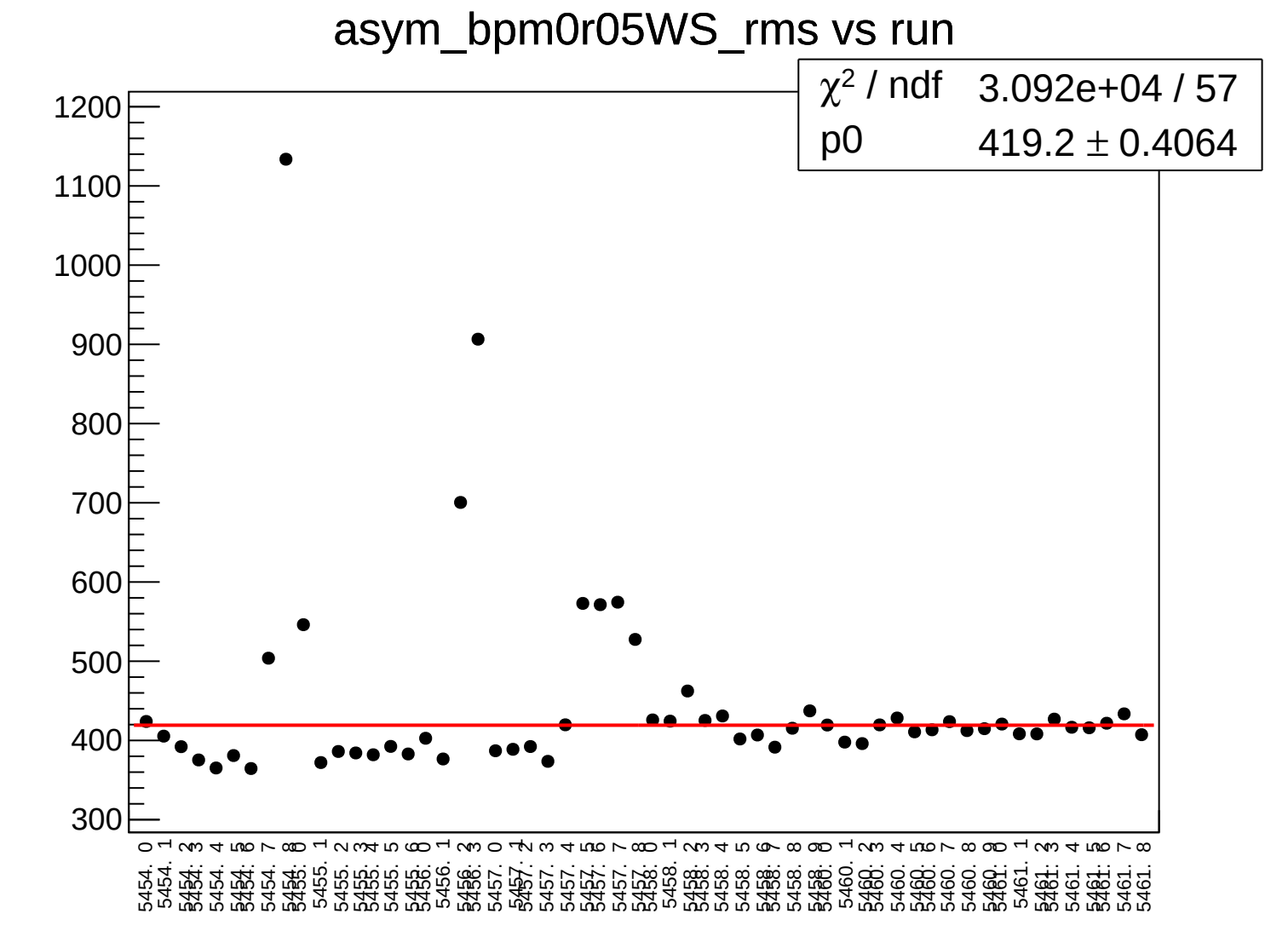

asym_bpm0r03WS_mean vs run
χ² / ndf 40.54 / 57
p0 −117.5 ± 591.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean −177.4
Std Dev 194.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

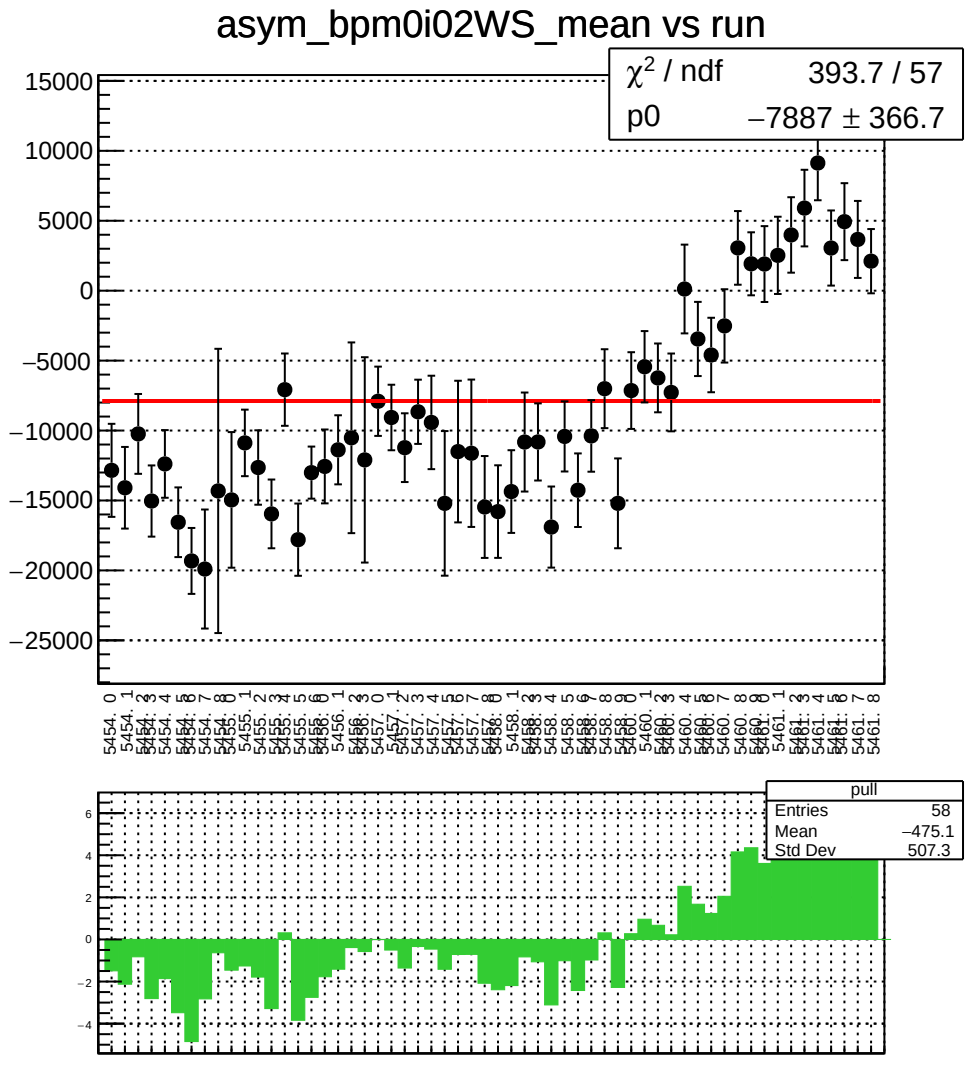

pull1D
Entries 58
Mean 0.006503
Std Dev 0.836
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

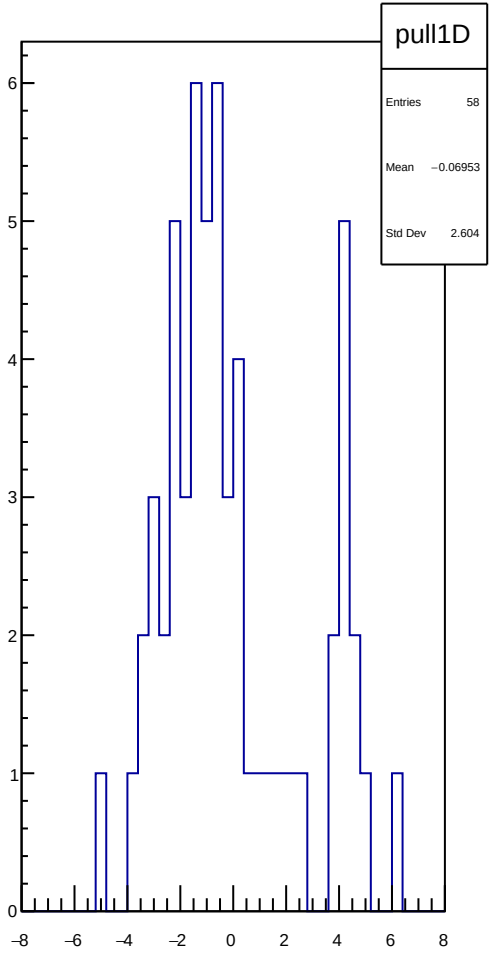

asym_bpm0r03WS_rms vs run
χ² / ndf 2.98e+04 / 57
p0 431.9 ± 0.4185
1200
1100
1000
900
800
700
600
500
400
300

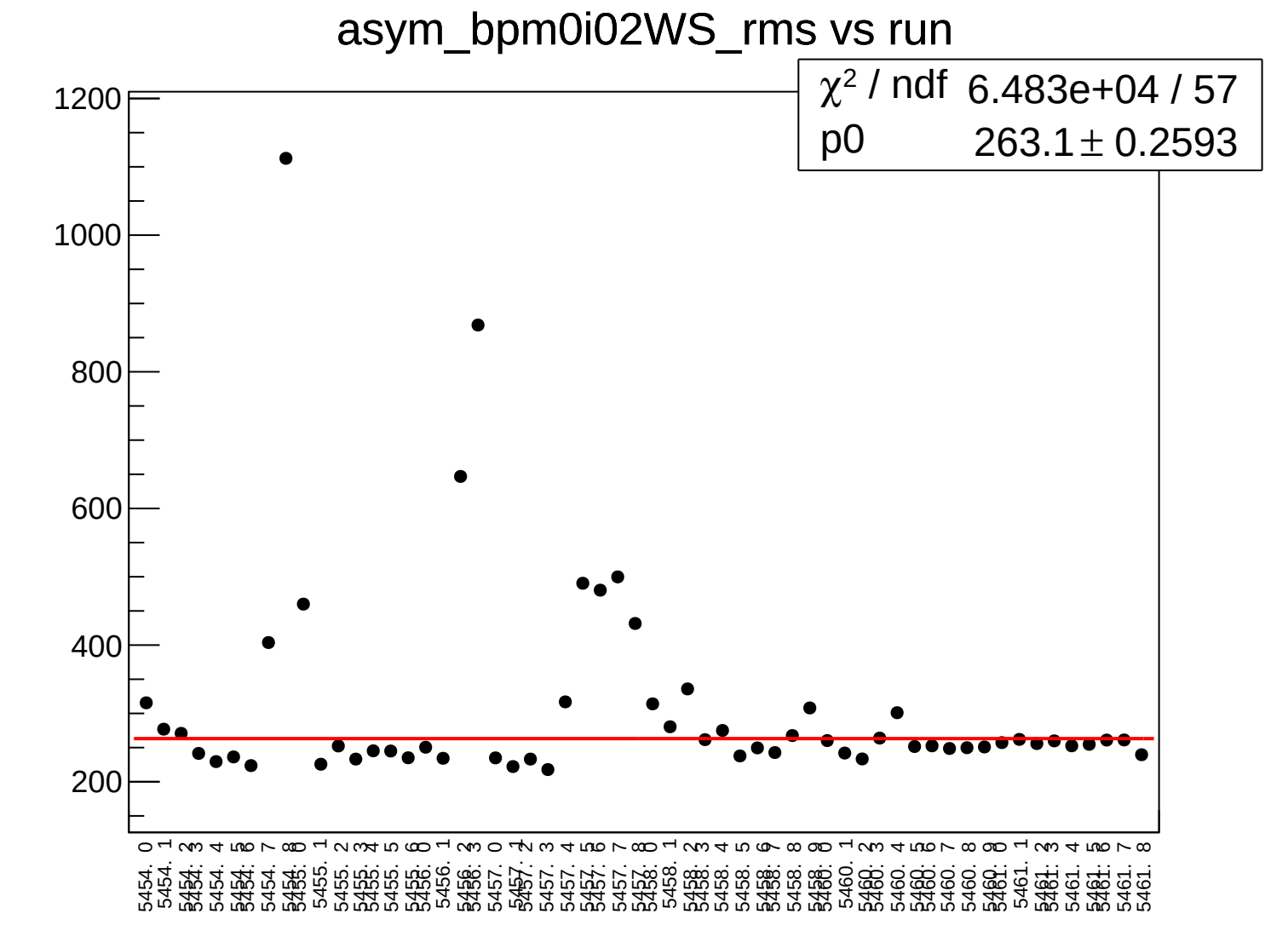

asym_bpm0r05WS_mean vs run
χ² / ndf 36.31 / 57
p0 −111.9 ± 574.8
pull
Entries 58
Mean −1715
Std Dev 1749

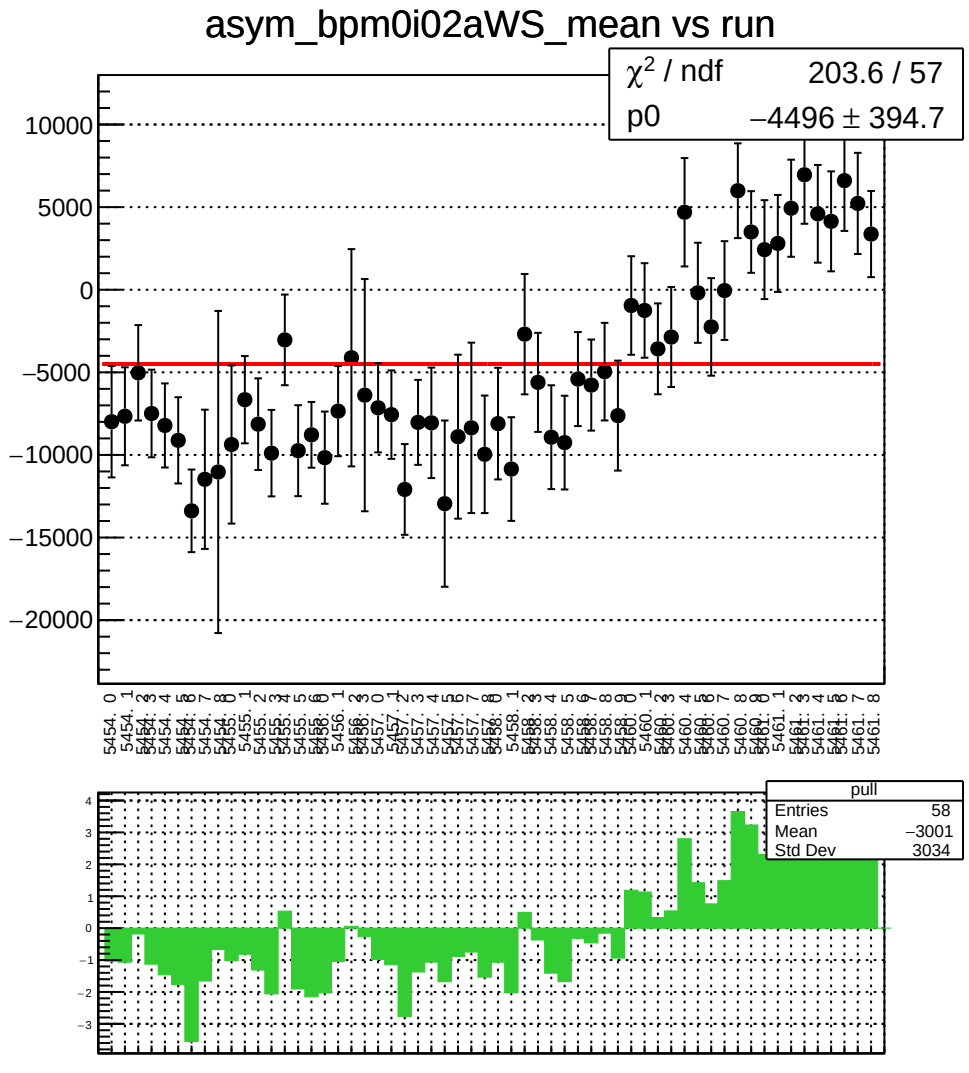

pull1D
Entries 58
Mean −0.0009957
Std Dev 0.7912

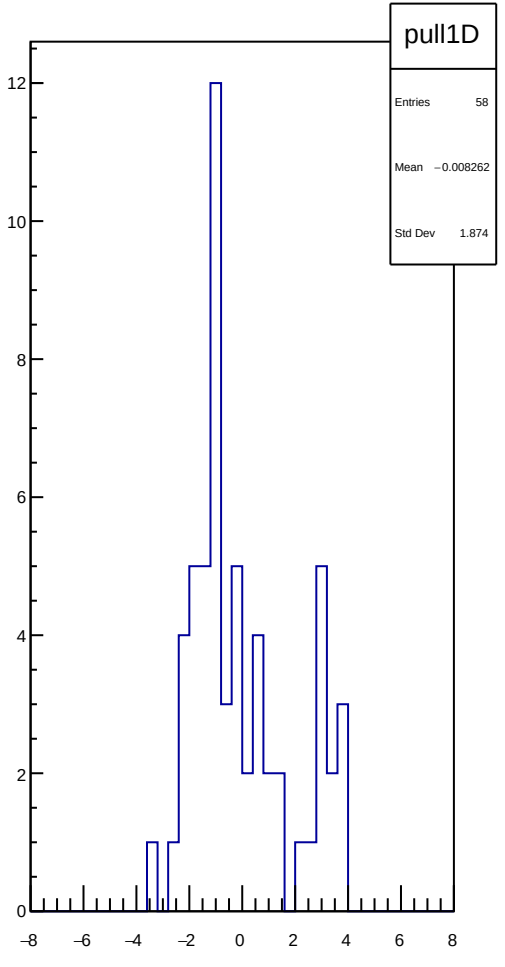

asym_bpm0r05WS_rms vs run
χ² / ndf 3.092e+04 / 57
p0 419.2 ± 0.4064
1200
1100
1000
900
800
700
600
500
400
300

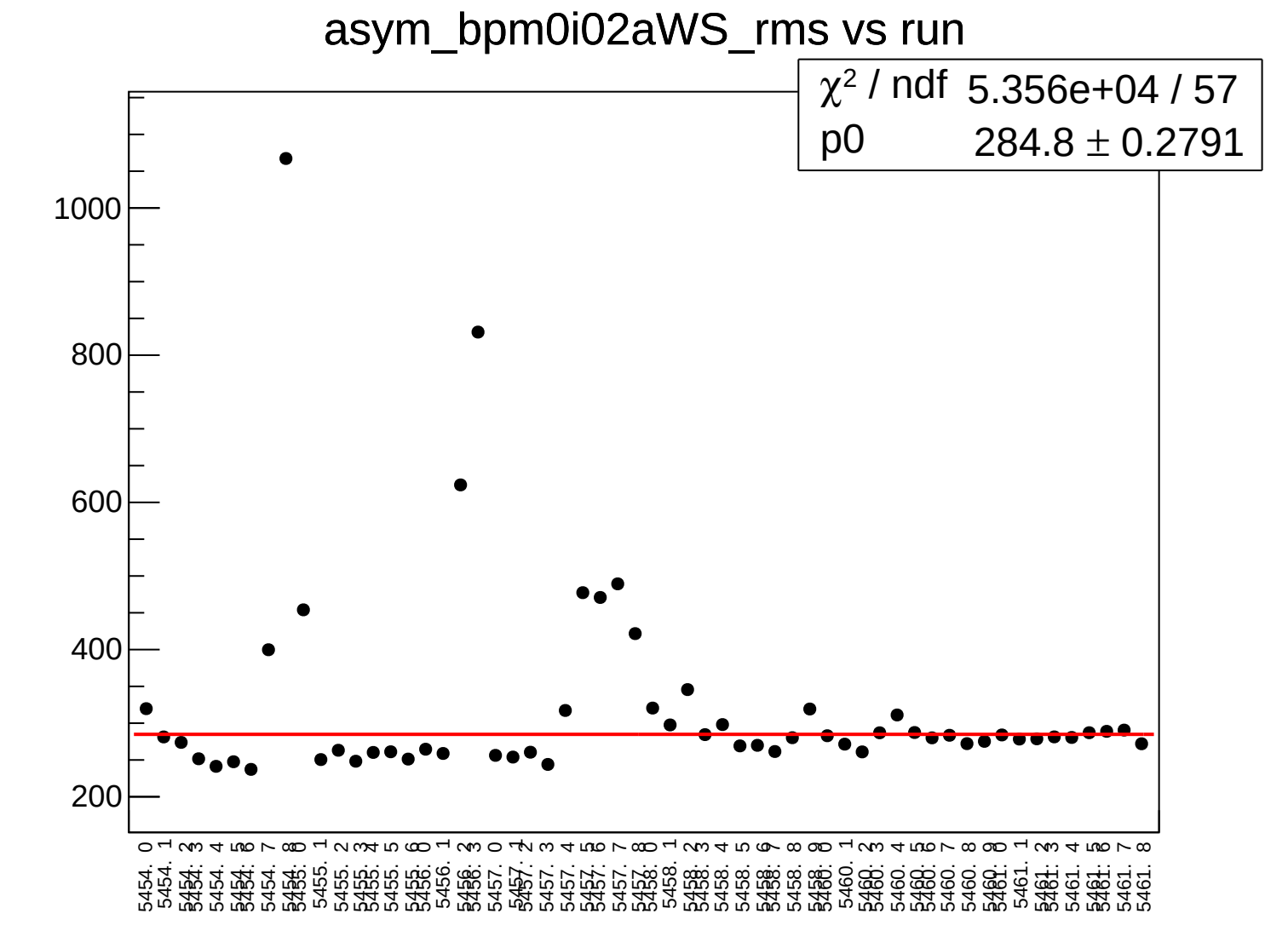

asym_bpm0i02WS_mean vs run
χ² / ndf 393.7 / 57
p0 −7887 ± 366.7
pull
Entries 58
Mean −475.1
Std Dev 507.3

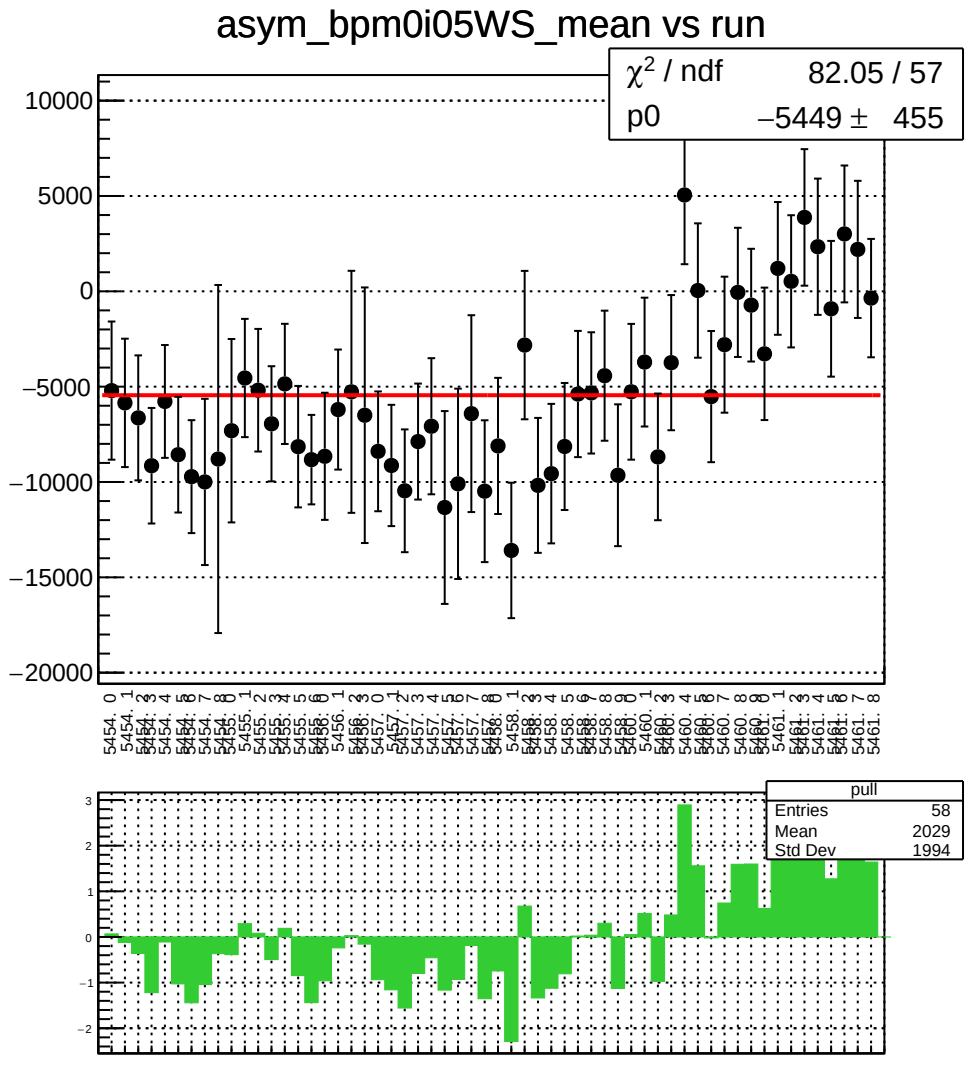

pull1D
Entries 58
Mean −0.06953
Std Dev 2.604

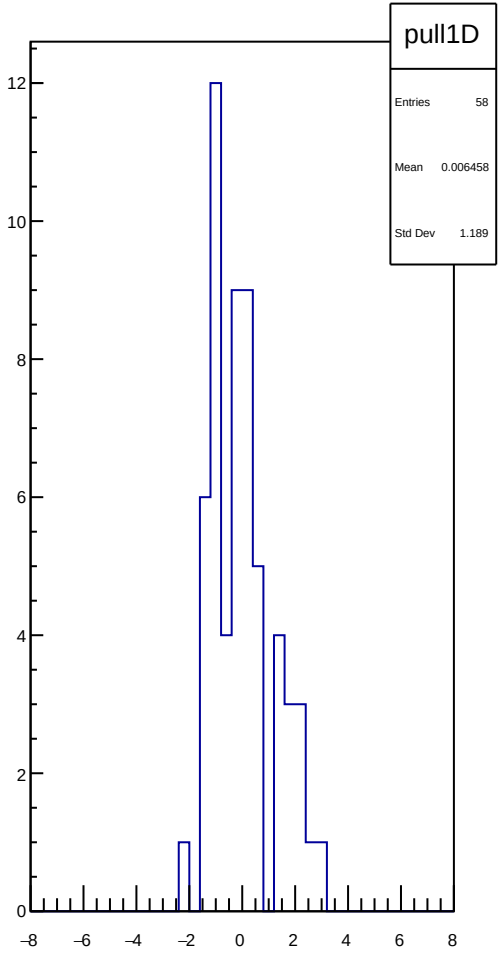

asym_bpm0i02WS_rms vs run
χ² / ndf 6.483e+04 / 57
p0 263.1 ± 0.2593
1200
1000
800
600
400
200

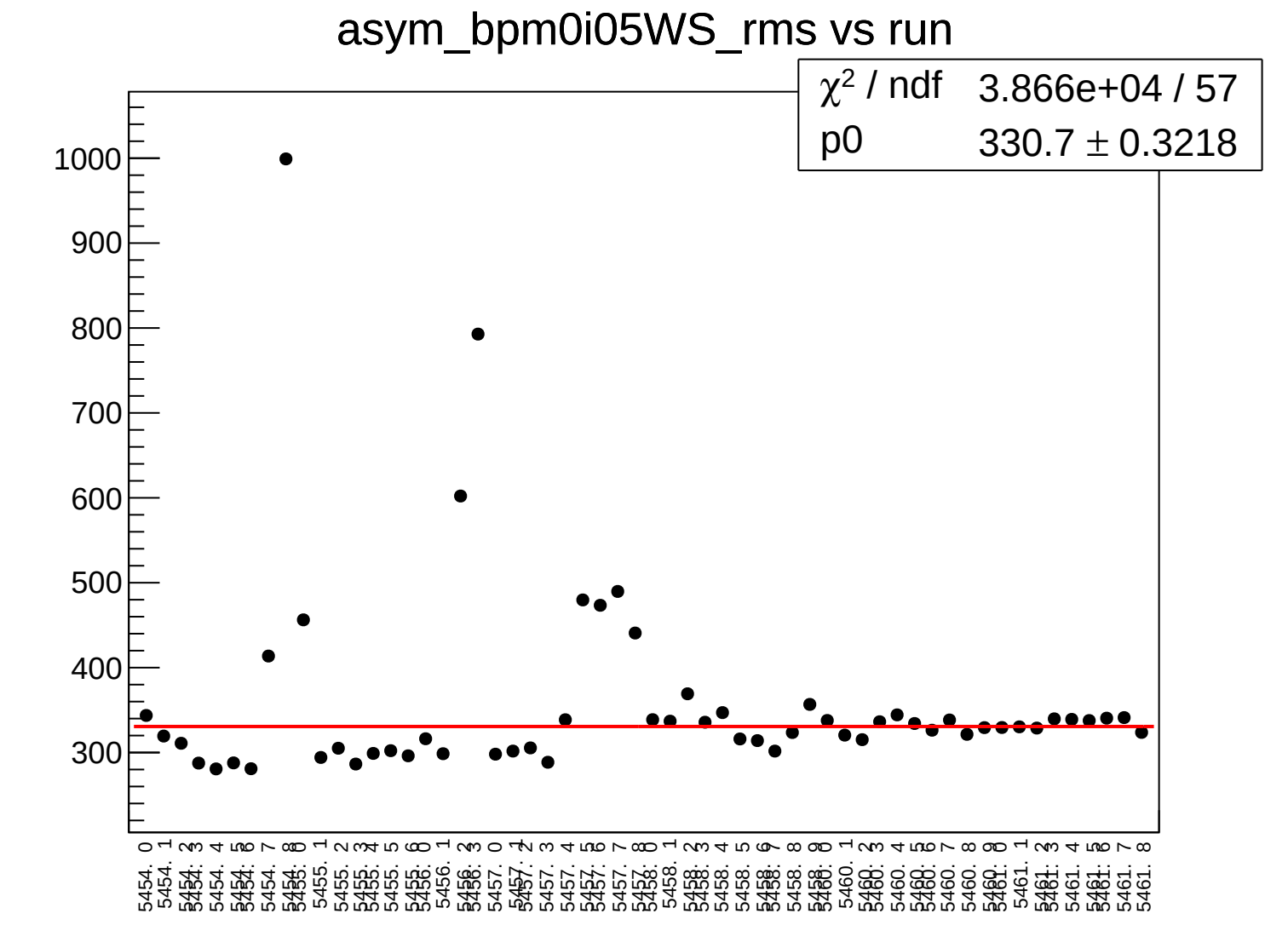

asym_bpm0i02aWS_mean vs run
χ² / ndf 203.6 / 57
p0 −4496 ± 394.7
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 58
Mean −3001
Std Dev 3034
4
3
2
1
0
−1
−2
−3

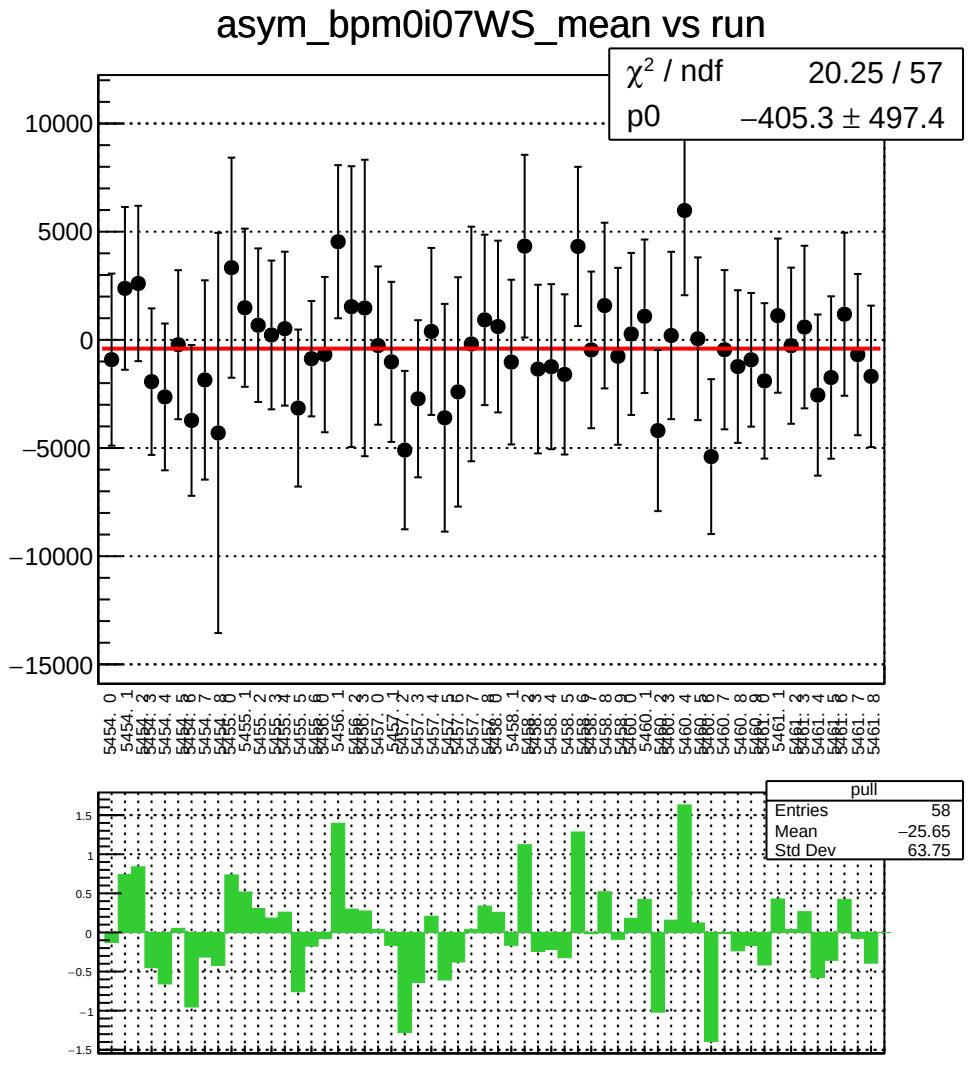

pull1D
Entries 58
Mean −0.008262
Std Dev 1.874
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

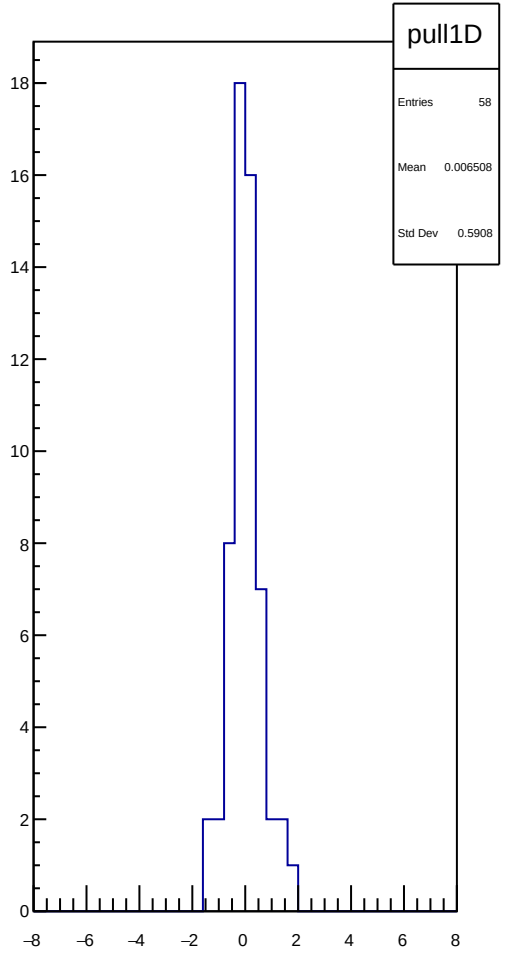

asym_bpm0i02aWS_rms vs run
χ² / ndf 5.356e+04 / 57
p0 284.8 ± 0.2791
1000
800
600
400
200

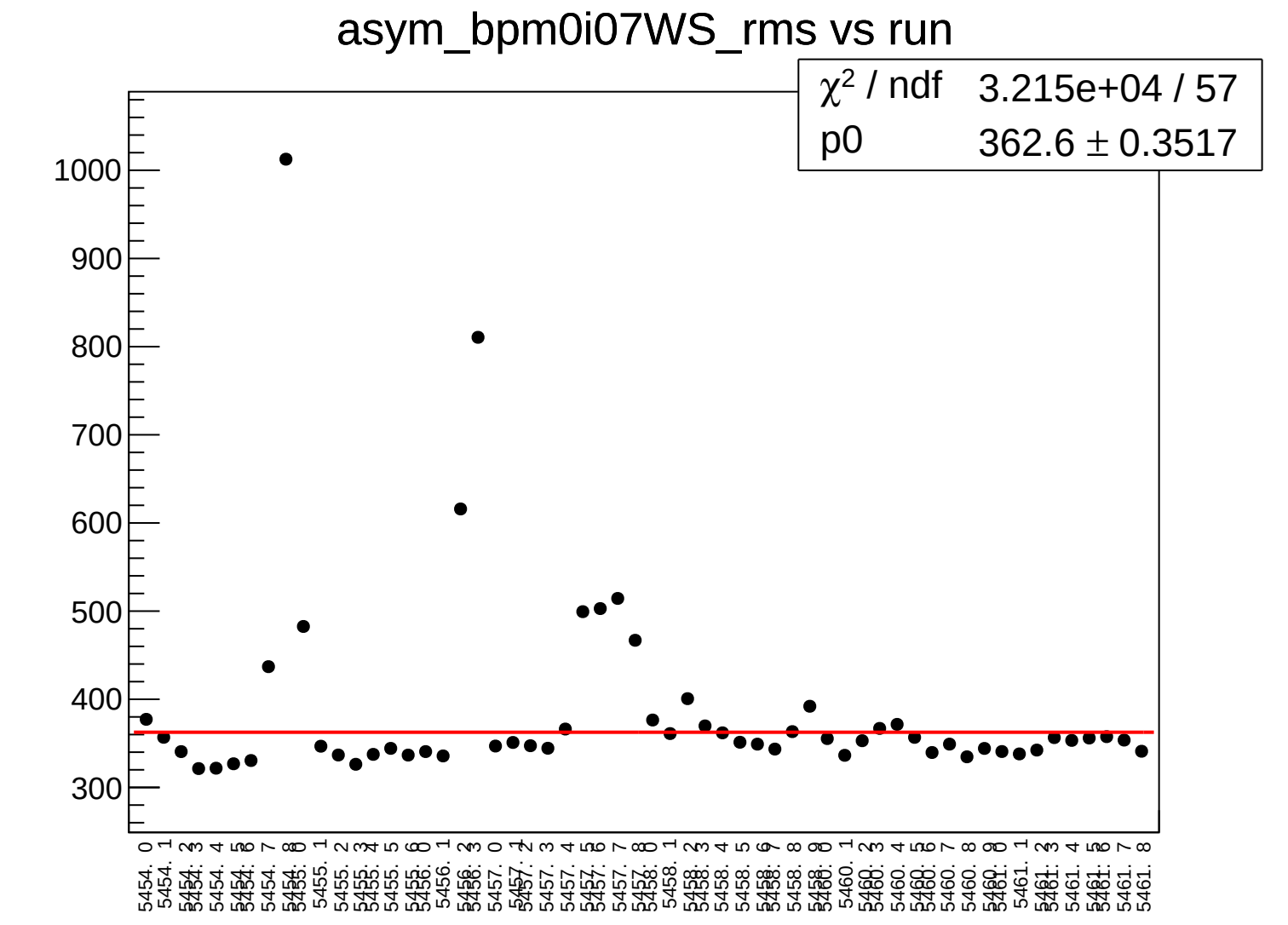

asym_bpm0i05WS_mean vs run
χ² / ndf 82.05 / 57
p0 −5449 ± 455
pull
Entries 58
Mean 2029
Std Dev 1994

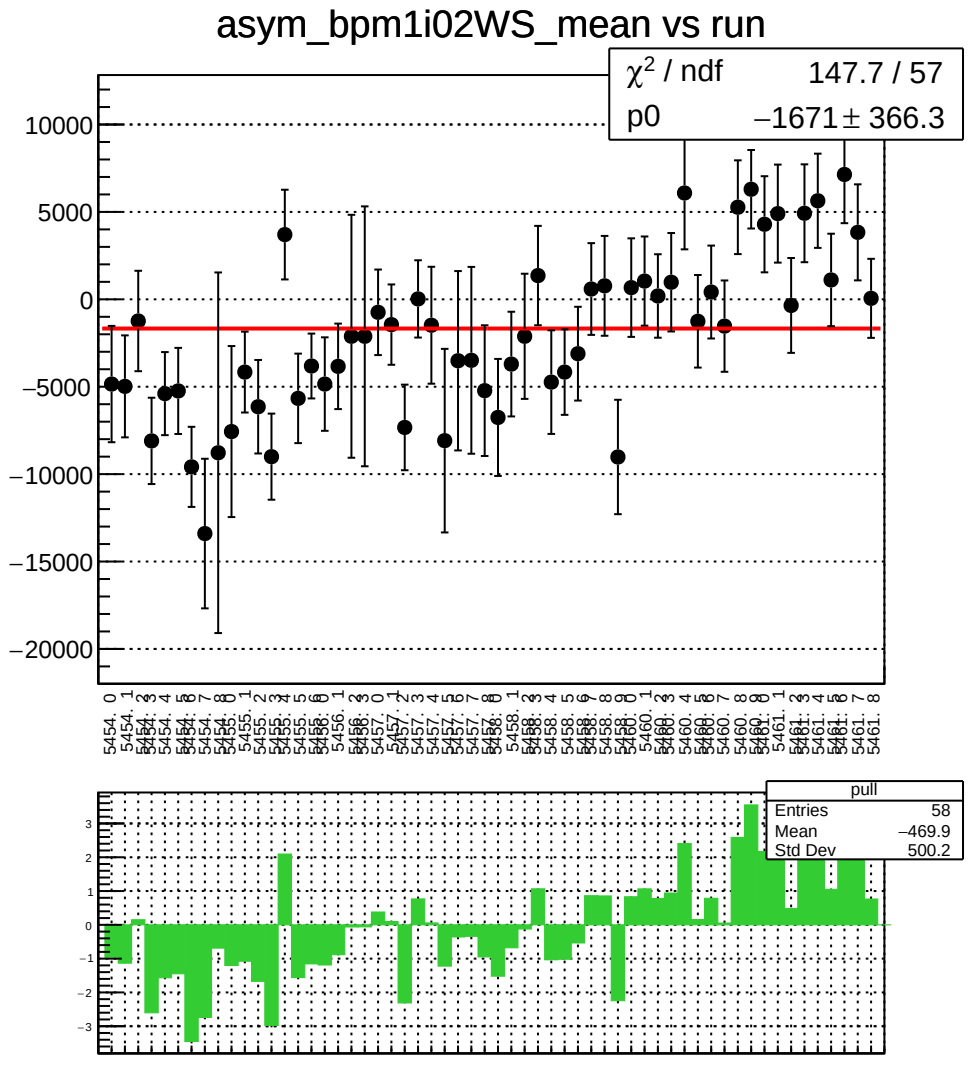

pull1D
Entries 58
Mean 0.006458
Std Dev 1.189

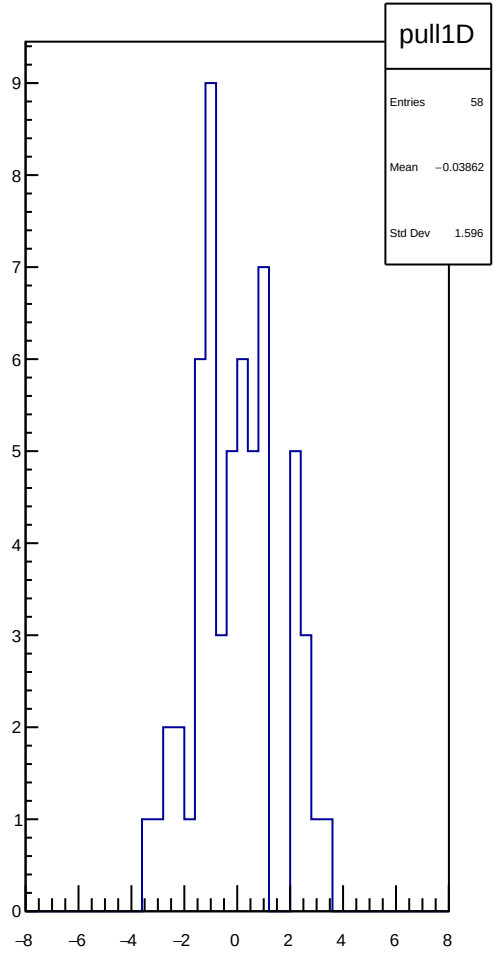

asym_bpm0i05WS_rms vs run
χ² / ndf 3.866e+04 / 57
p0 330.7 ± 0.3218
1000
900
800
700
600
500
400
300

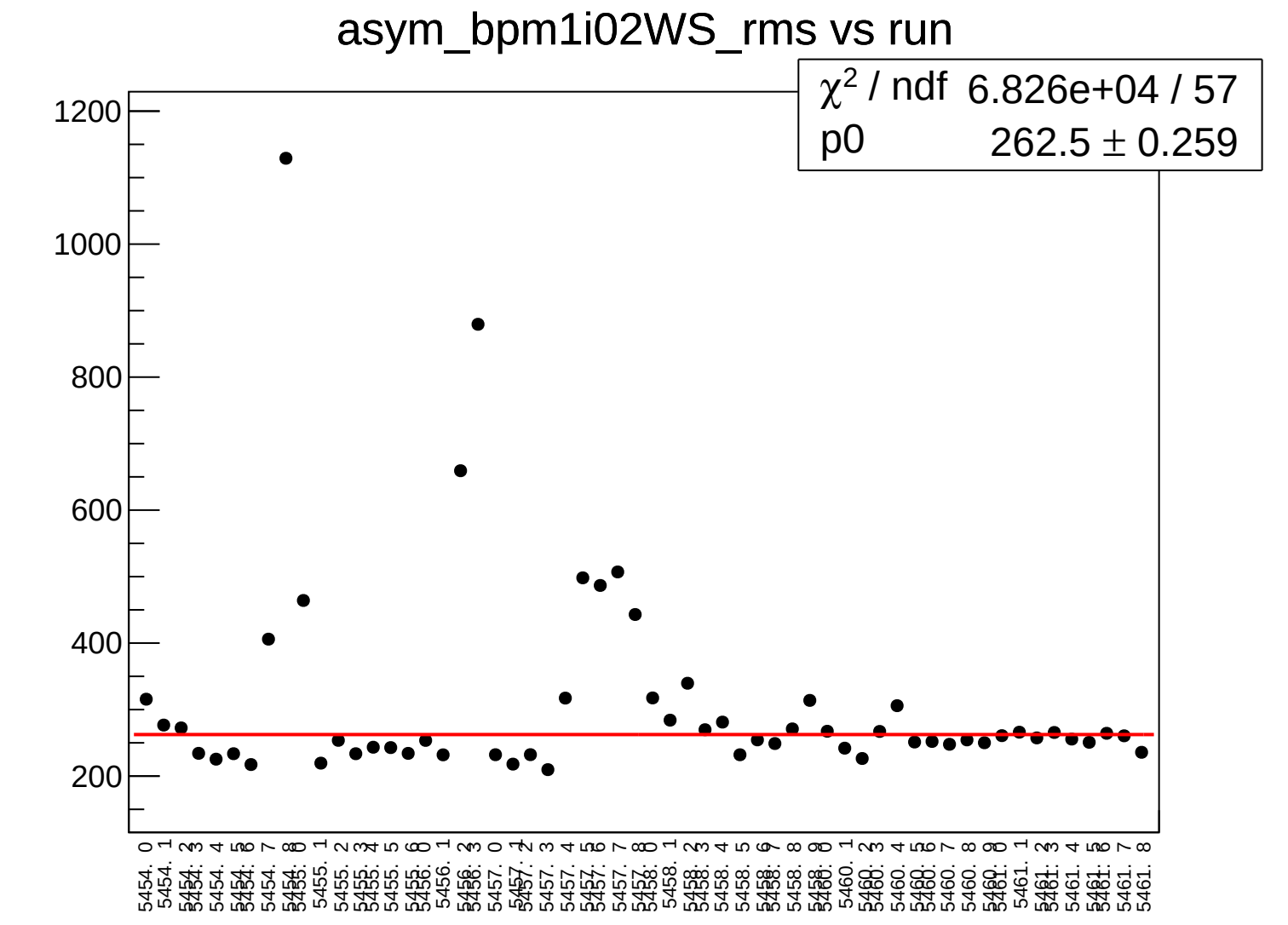

asym_bpm0i07WS_mean vs run
χ² / ndf 20.25 / 57
p0 −405.3 ± 497.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean −25.65
Std Dev 63.75
1.5
1
0.5
0
−0.5
−1
−1.5

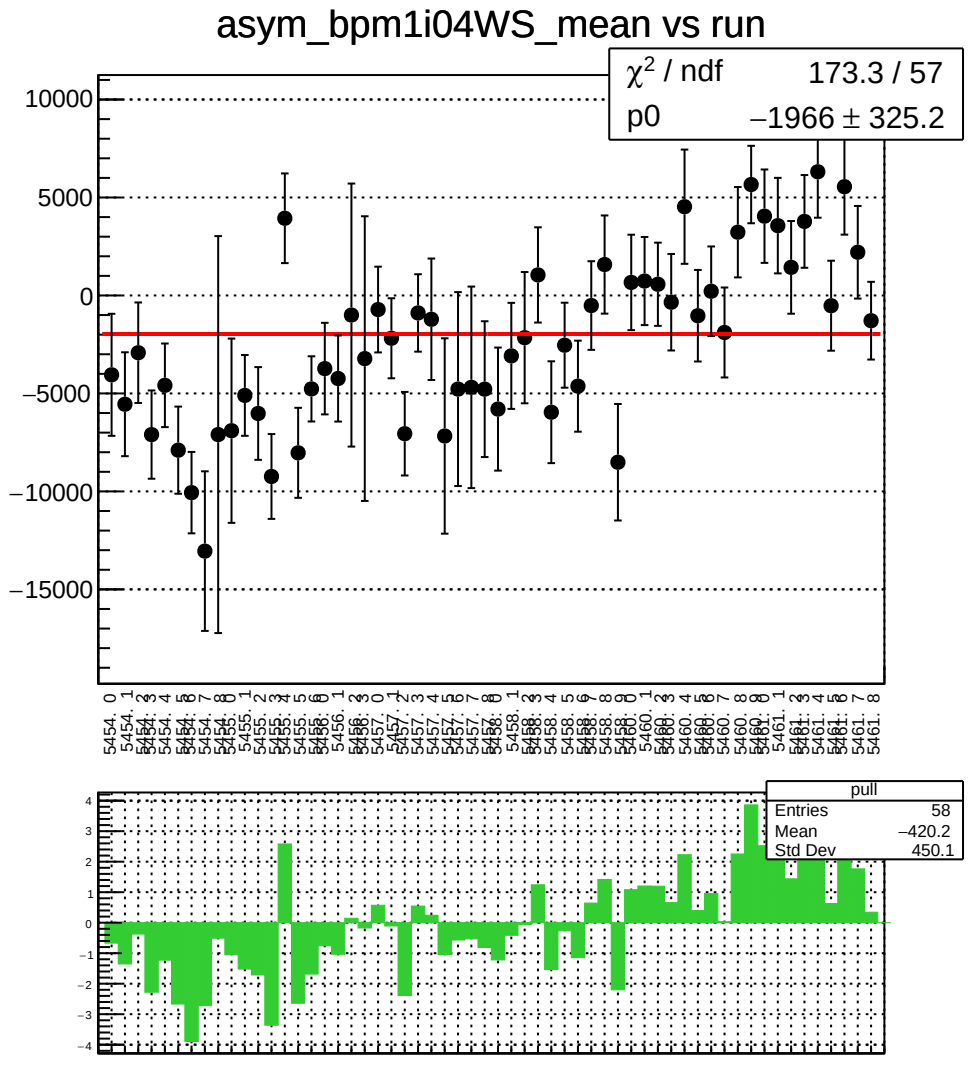

pull1D
Entries 58
Mean 0.006508
Std Dev 0.5908
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

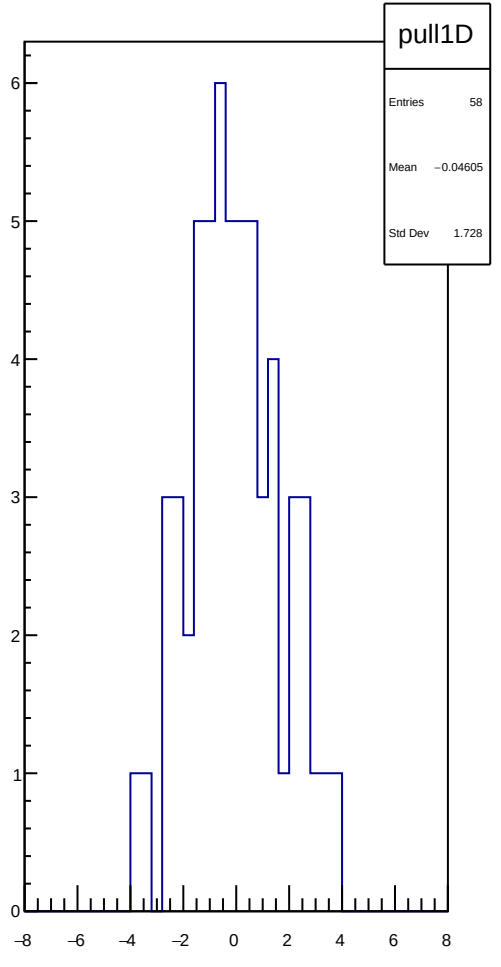

asym_bpm0i07WS_rms vs run
χ² / ndf 3.215e+04 / 57
p0 362.6 ± 0.3517
1000
900
800
700
600
500
400
300

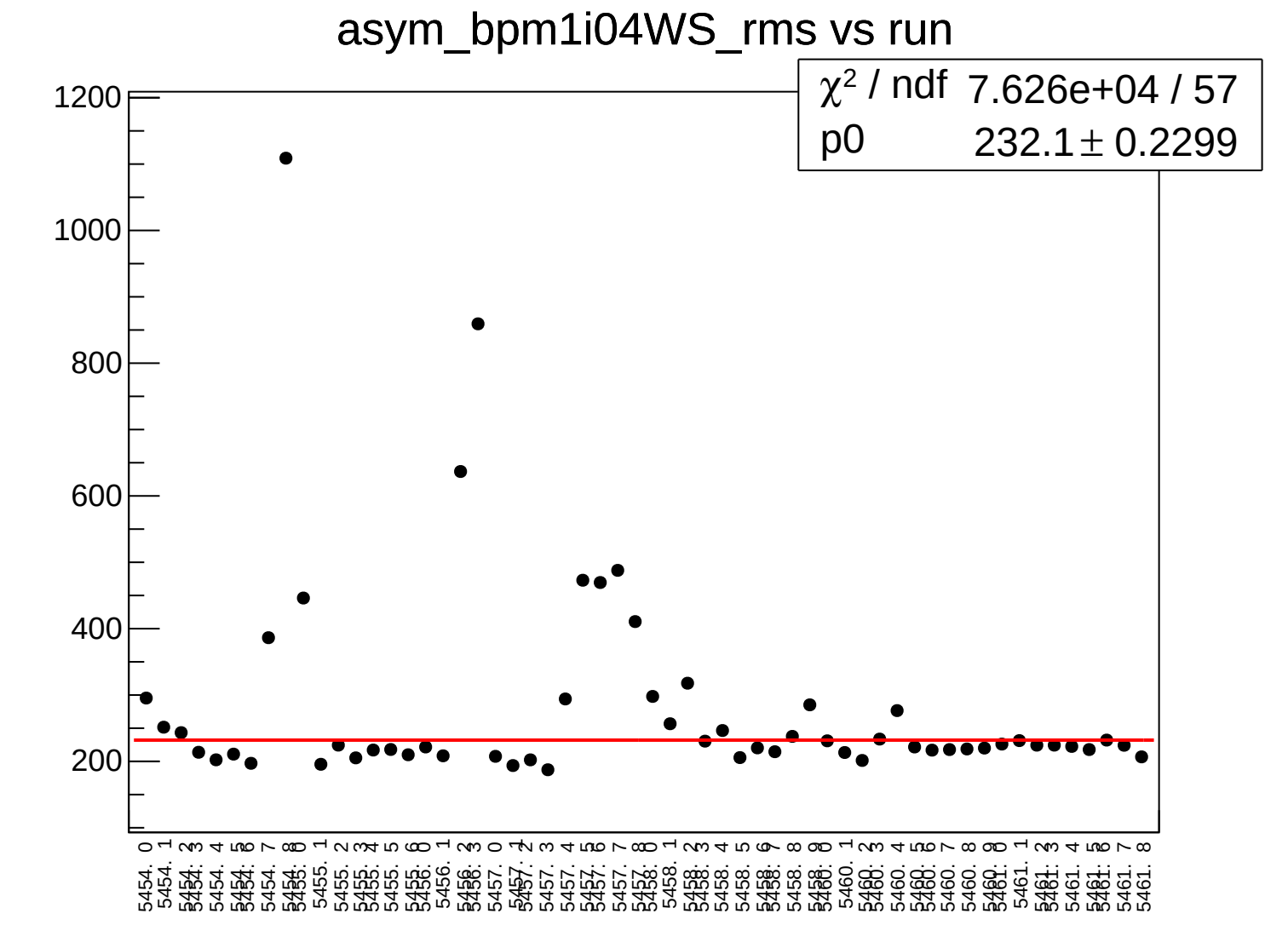

asym_bpm1i02WS_mean vs run
χ² / ndf 147.7 / 57
p0 −1671 ± 366.3
pull
Entries 58
Mean −469.9
Std Dev 500.2

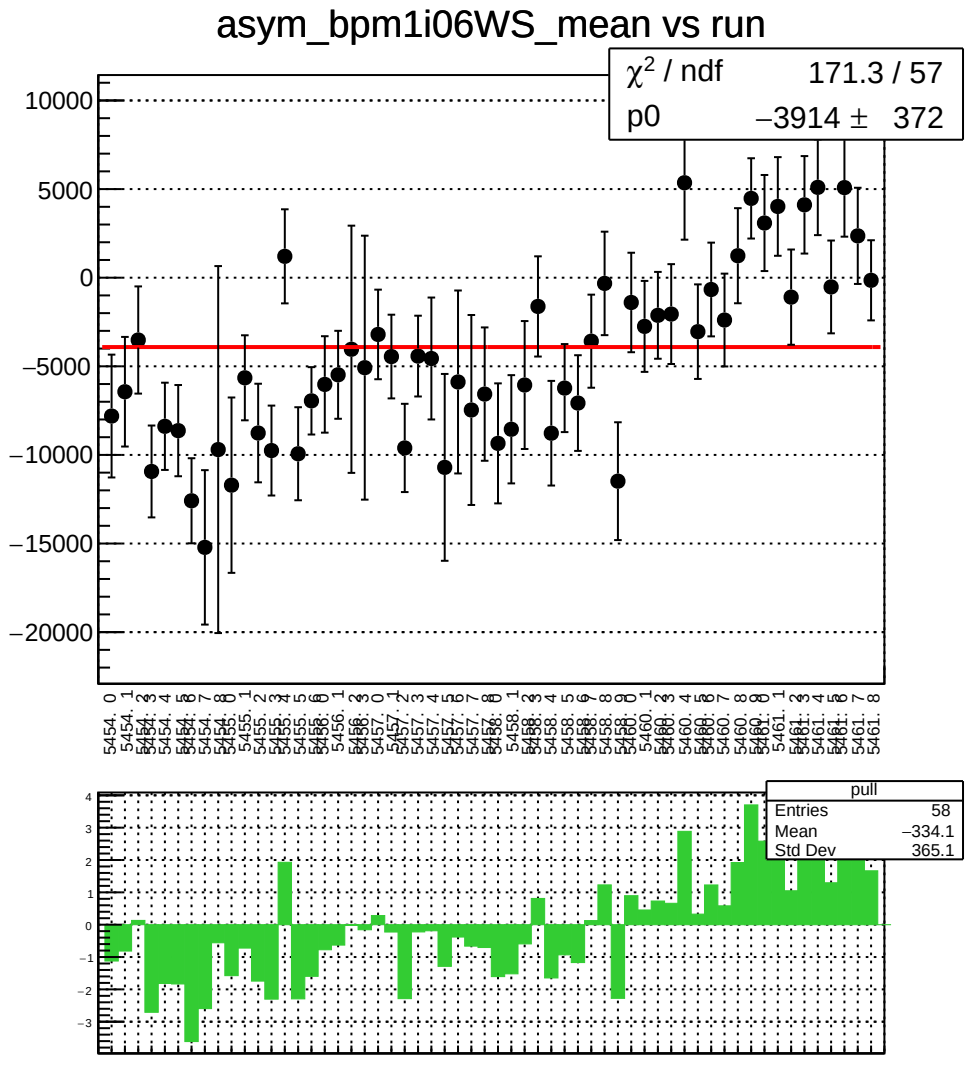

pull1D
Entries 58
Mean −0.03862
Std Dev 1.596

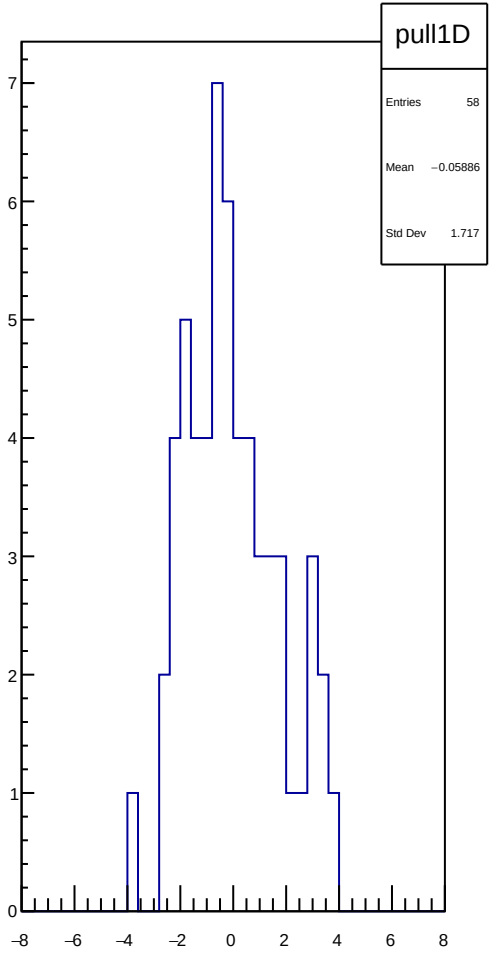

asym_bpm1i02WS_rms vs run
χ² / ndf 6.826e+04 / 57
p0 262.5 ± 0.259
1200
1000
800
600
400
200

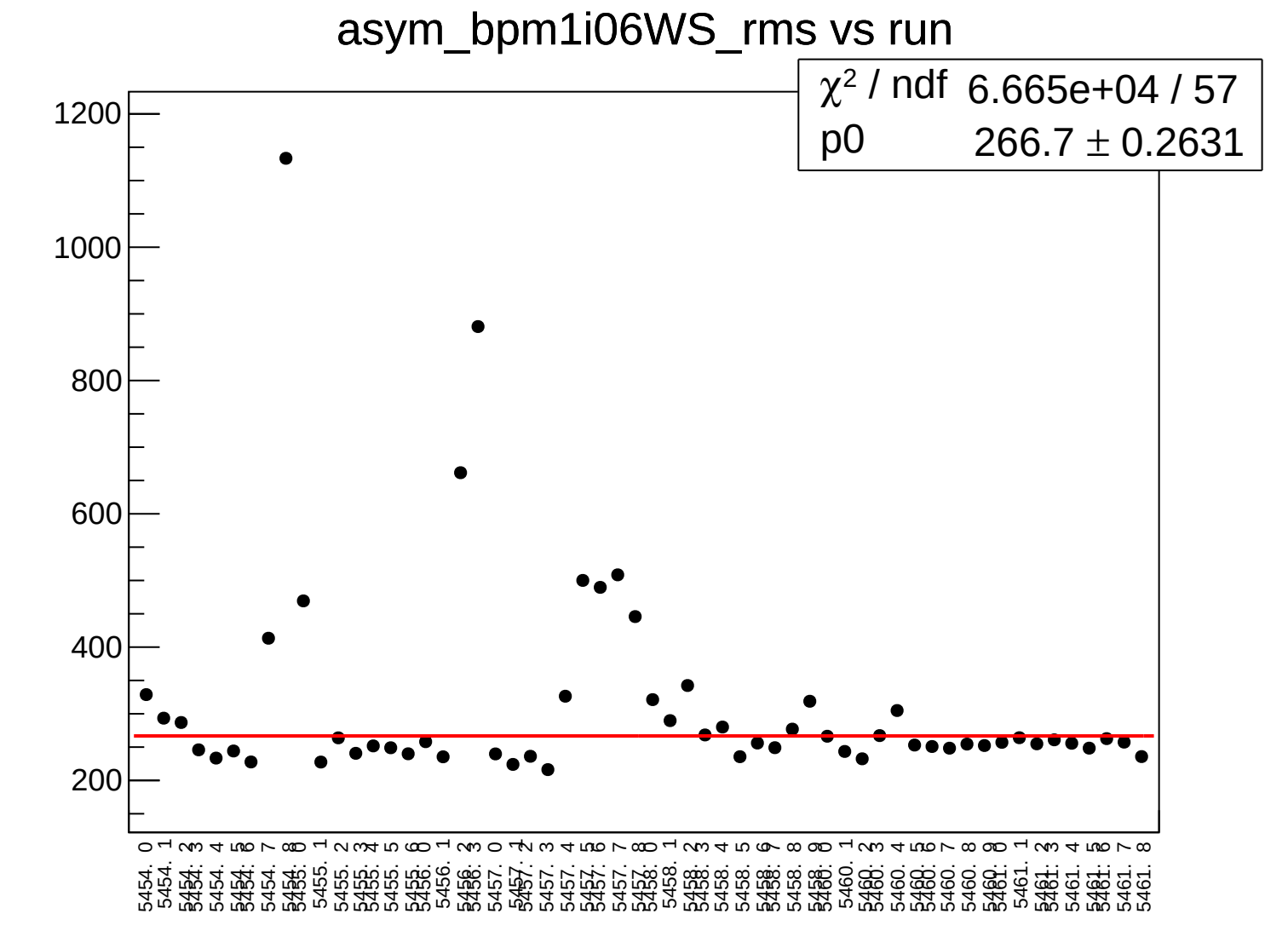

asym_bpm1i04WS_mean vs run
χ² / ndf 173.3 / 57
p0 −1966 ± 325.2
10000
5000
0
−5000
−10000
−15000
pull
Entries 58
Mean −420.2
Std Dev 450.1
4
3
2
1
0
−1
−2
−3
−4

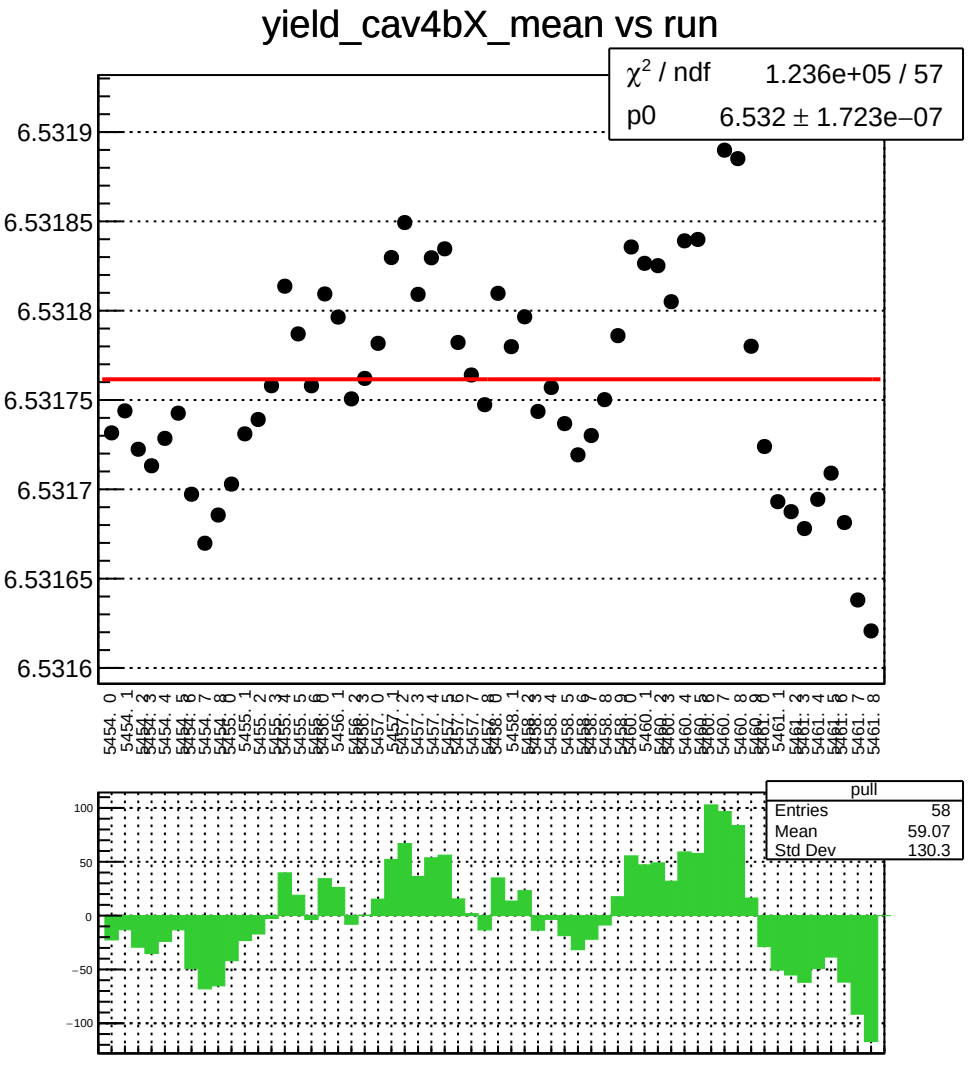

pull1D
Entries 58
Mean −0.04605
Std Dev 1.728
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

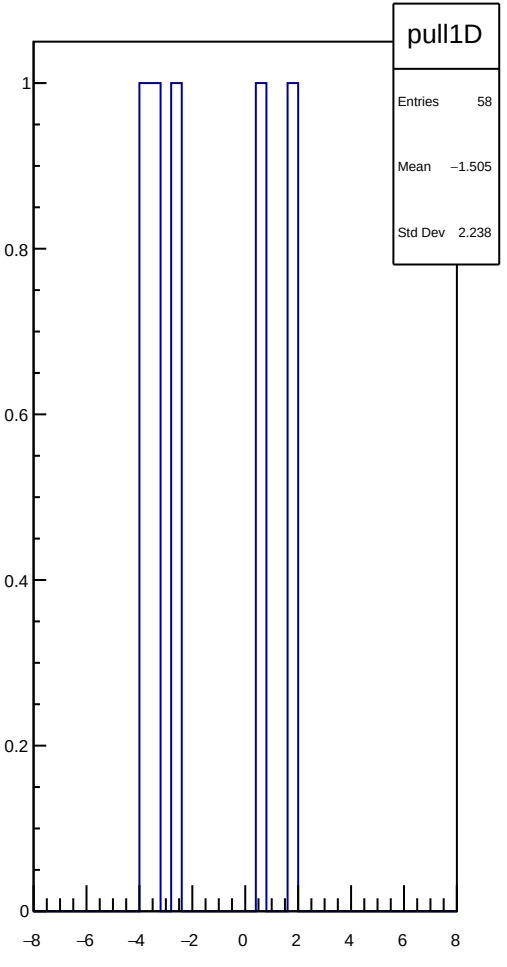

asym_bpm1i04WS_rms vs run
χ² / ndf 7.626e+04 / 57
p0 232.1 ± 0.2299
1200
1000
800
600
400
200

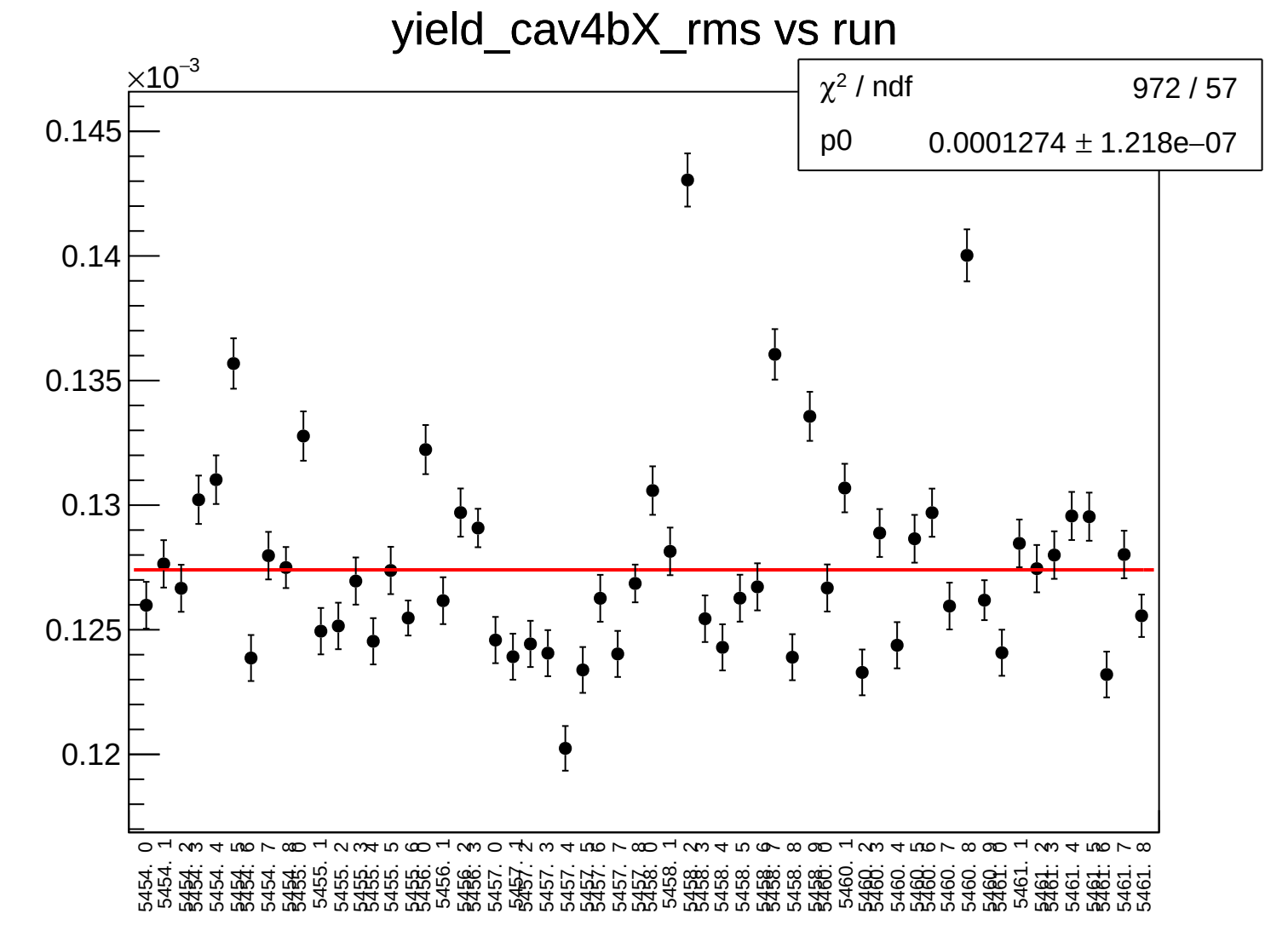

asym_bpm1i06WS_mean vs run
χ² / ndf 171.3 / 57
p0 −3914 ± 372
pull
Entries 58
Mean −334.1
Std Dev 365.1

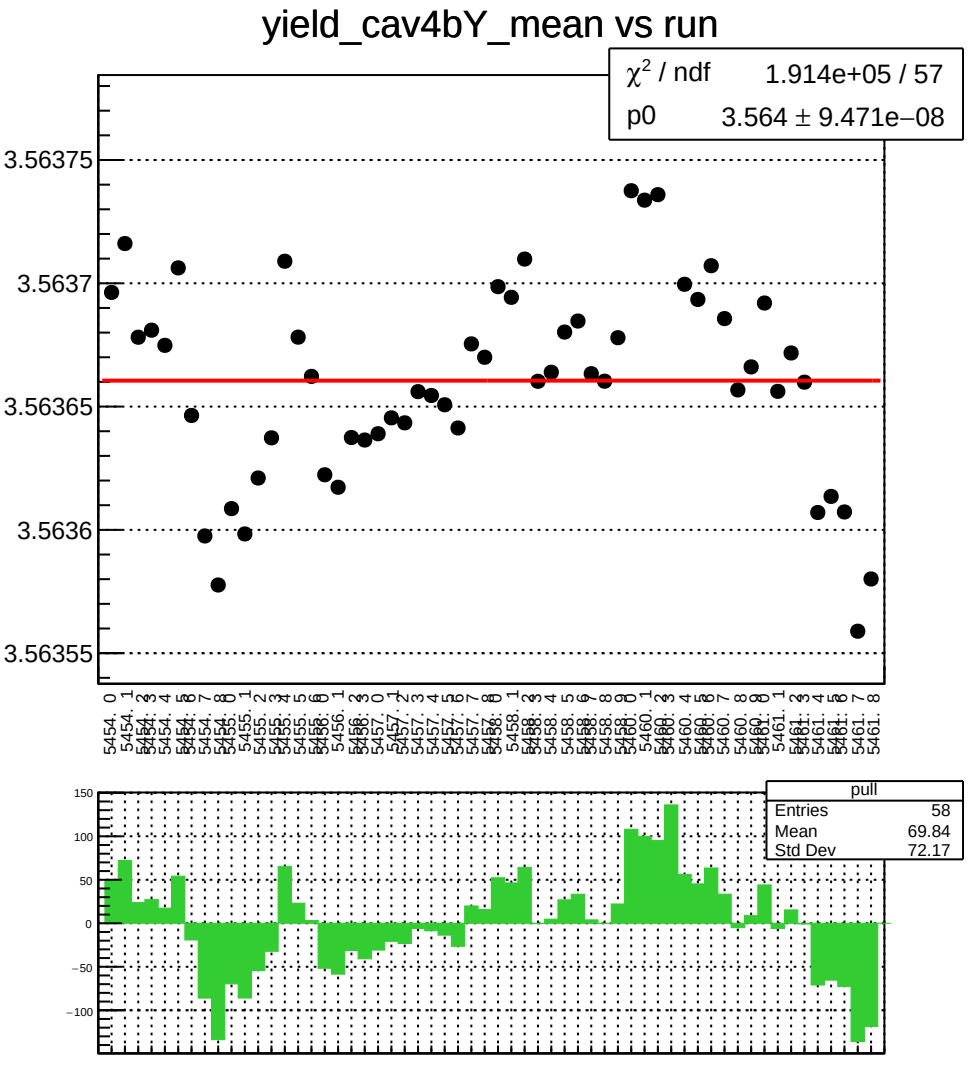

pull1D
Entries 58
Mean −0.05886
Std Dev 1.717

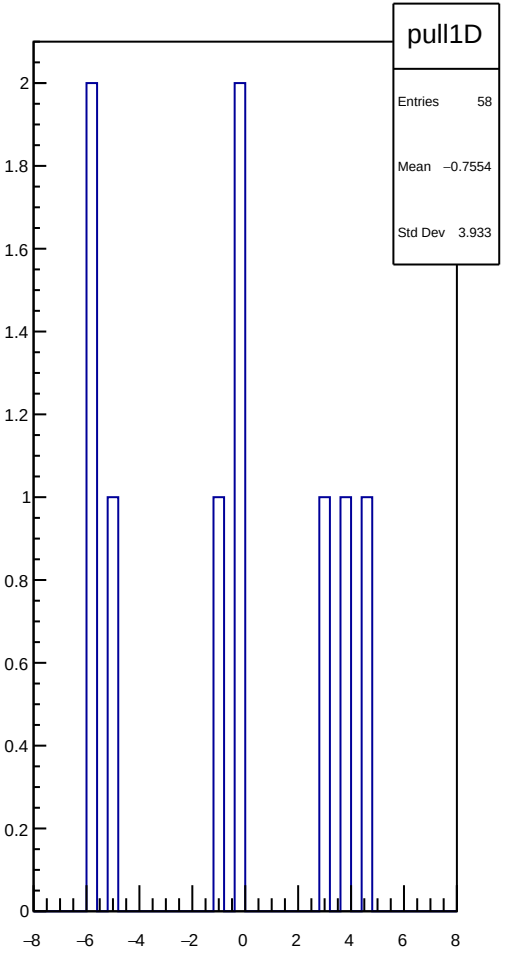

asym_bpm1i06WS_rms vs run
χ² / ndf 6.665e+04 / 57
p0 266.7 ± 0.2631
1200
1000
800
600
400
200

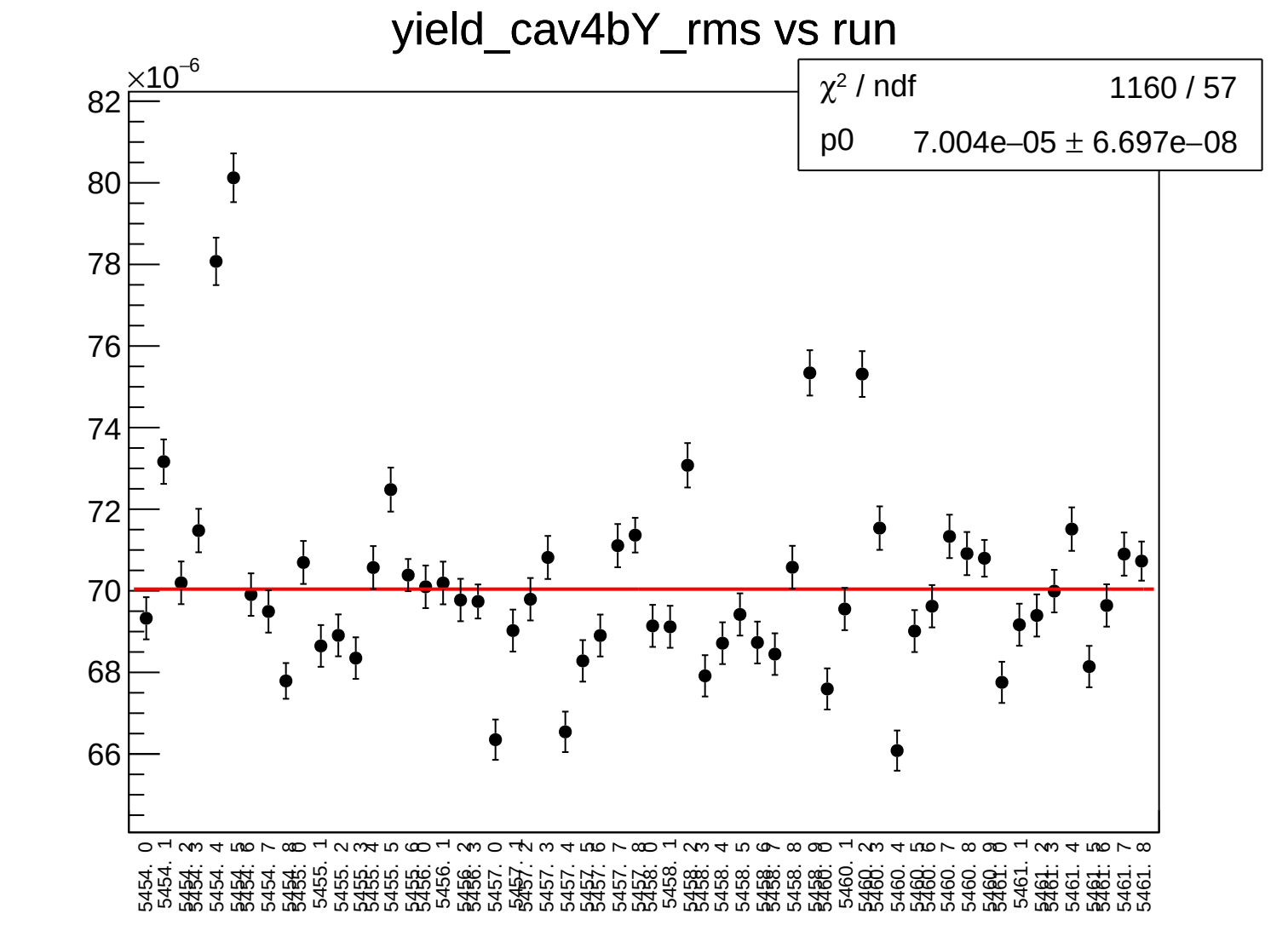

yield_cav4bX_mean vs run
χ² / ndf 1.236e+05 / 57
p0 6.532 ± 1.723e−07
6.5319
6.53185
6.5318
6.53175
6.5317
6.53165
6.5316
pull
Entries 58
Mean 59.07
Std Dev 130.3
100
50
0
−50
−100

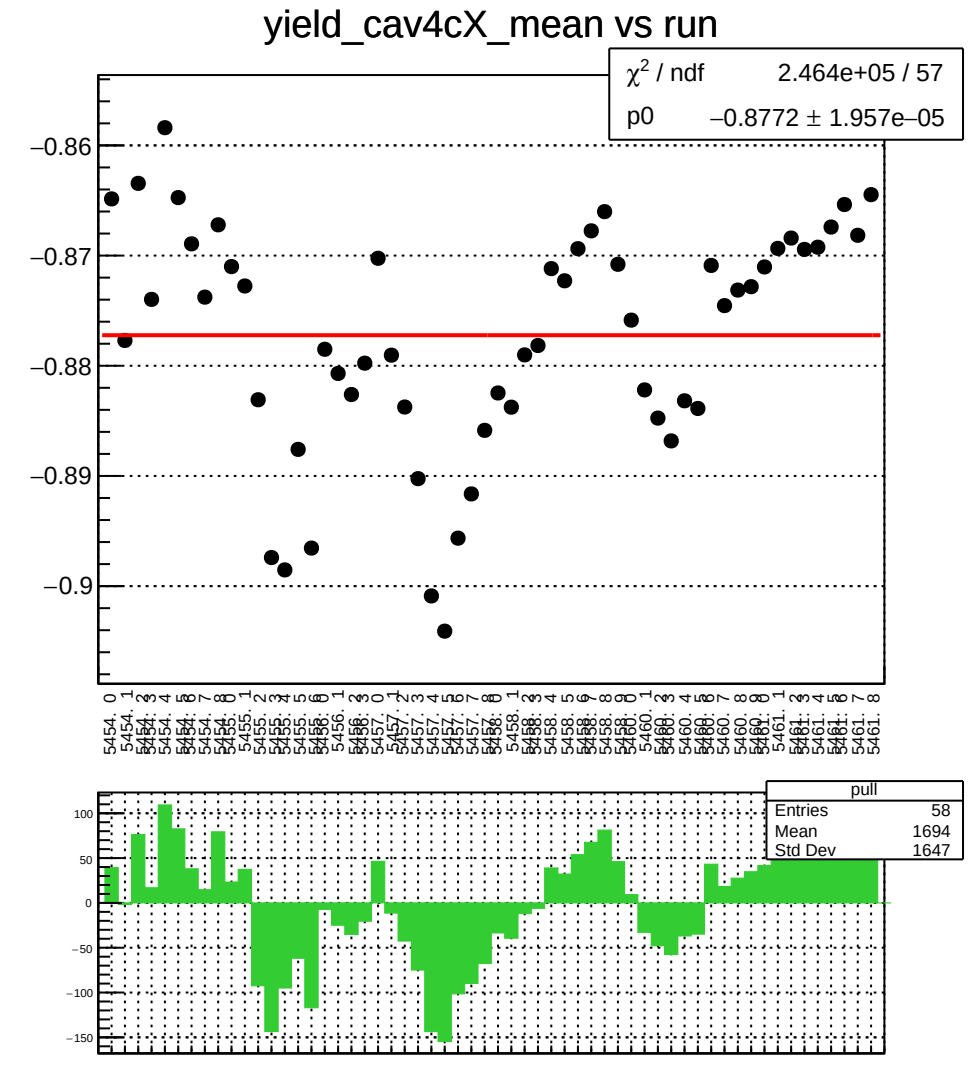

pull1D
Entries 58
Mean −1.505
Std Dev 2.238
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

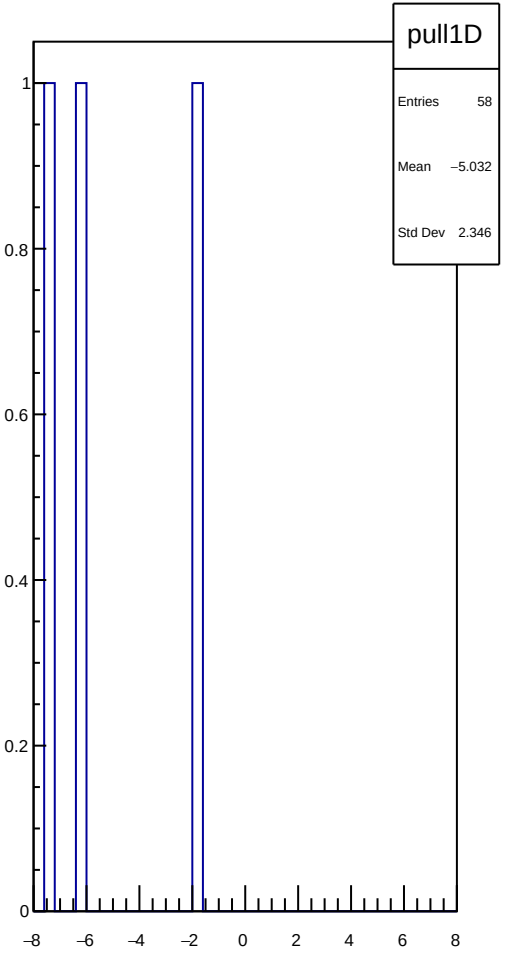

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 972 / 57
p0 0.0001274 ± 1.218e−07
0.145
0.14
0.135
0.13
0.125
0.12

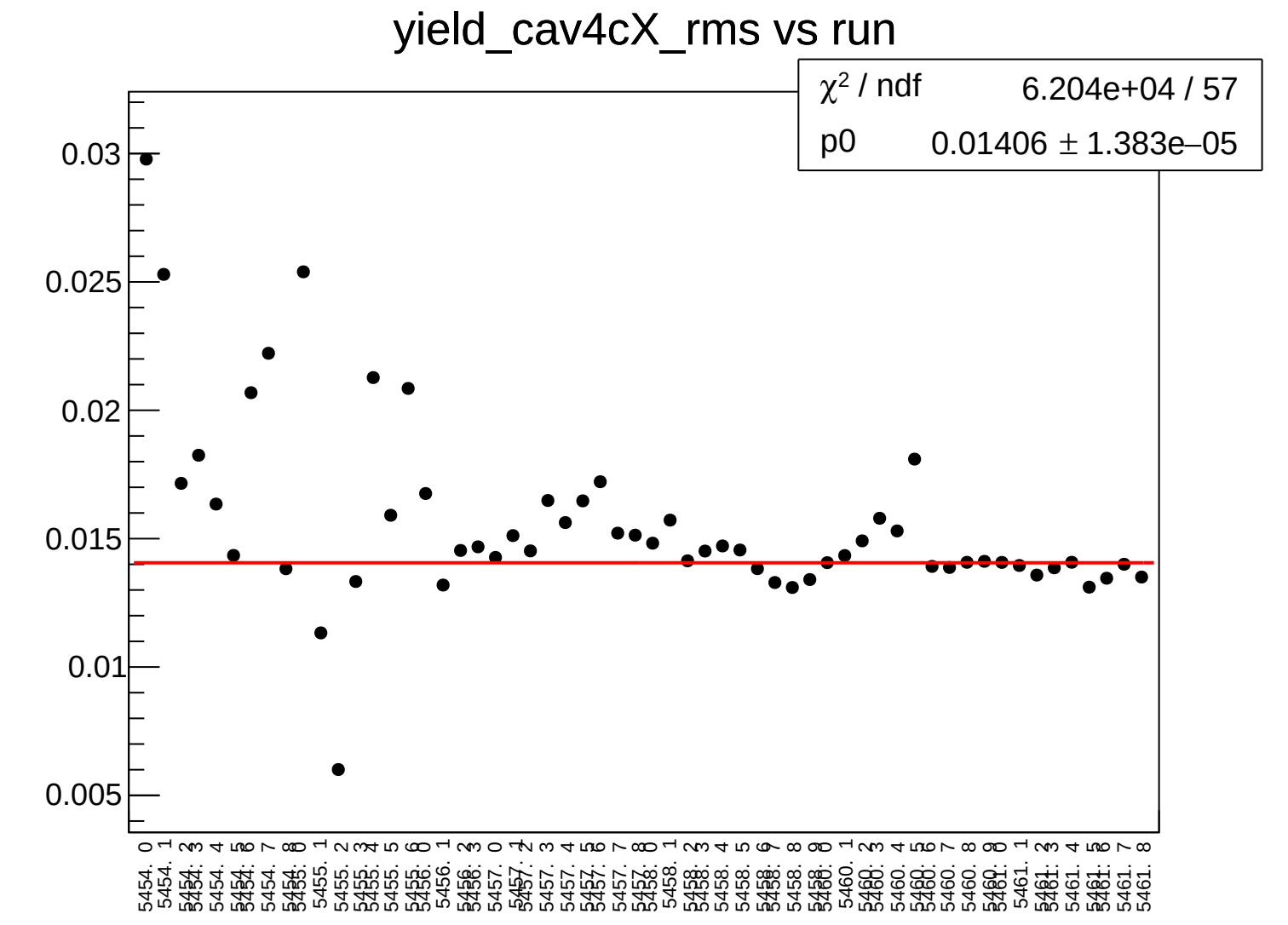

yield_cav4bY_mean vs run
χ² / ndf 1.914e+05 / 57
p0 3.564 ± 9.471e−08
3.56375
3.5637
3.56365
3.5636
3.56355
pull
Entries 58
Mean 69.84
Std Dev 72.17
150
100
50
0
−50
−100

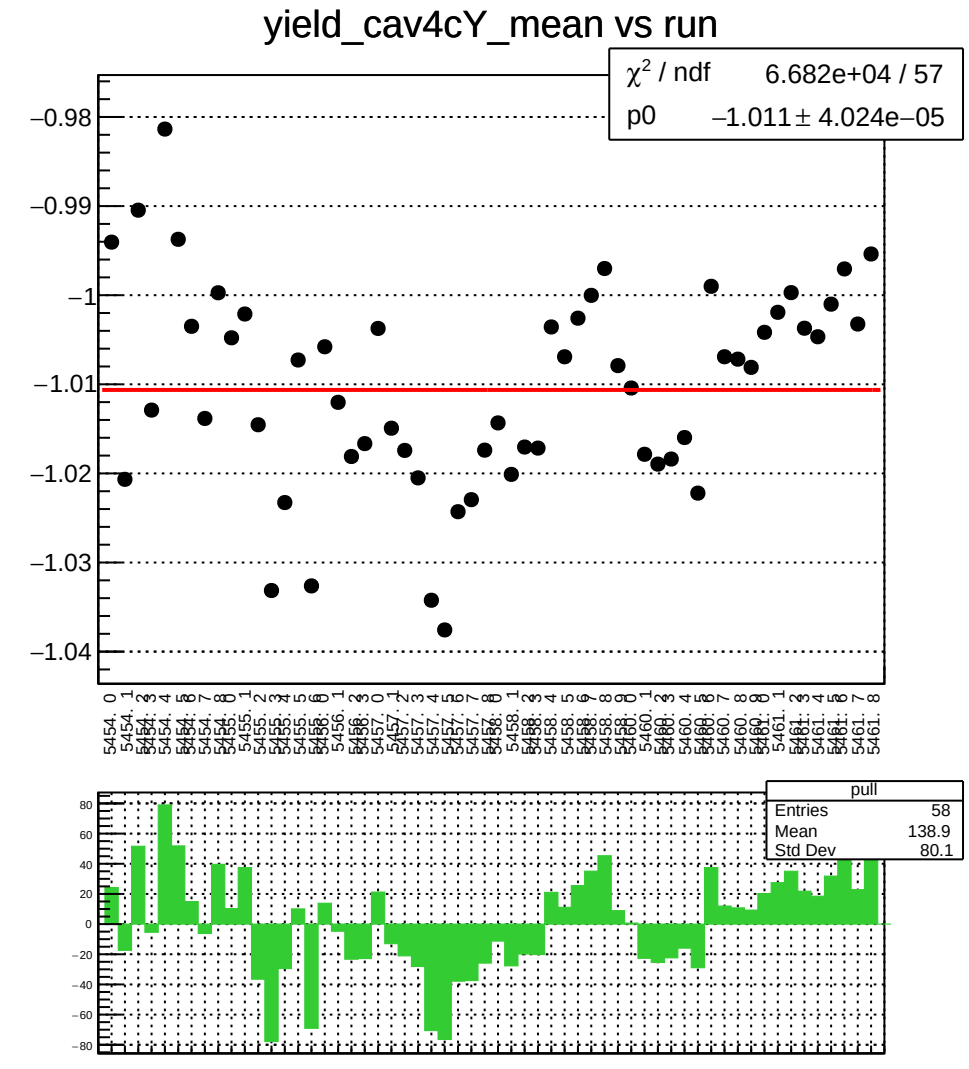

pull1D
Entries 58
Mean −0.7554
Std Dev 3.933
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

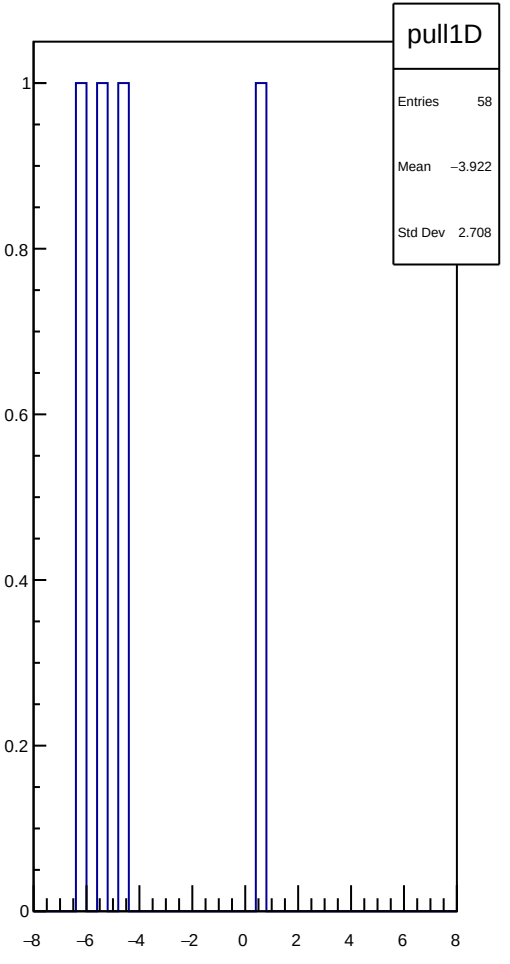

yield_cav4bY_rms vs run
×10⁻⁶
χ² / ndf 1160 / 57
p0 7.004e−05 ± 6.697e−08
82
80
78
76
74
72
70
68
66

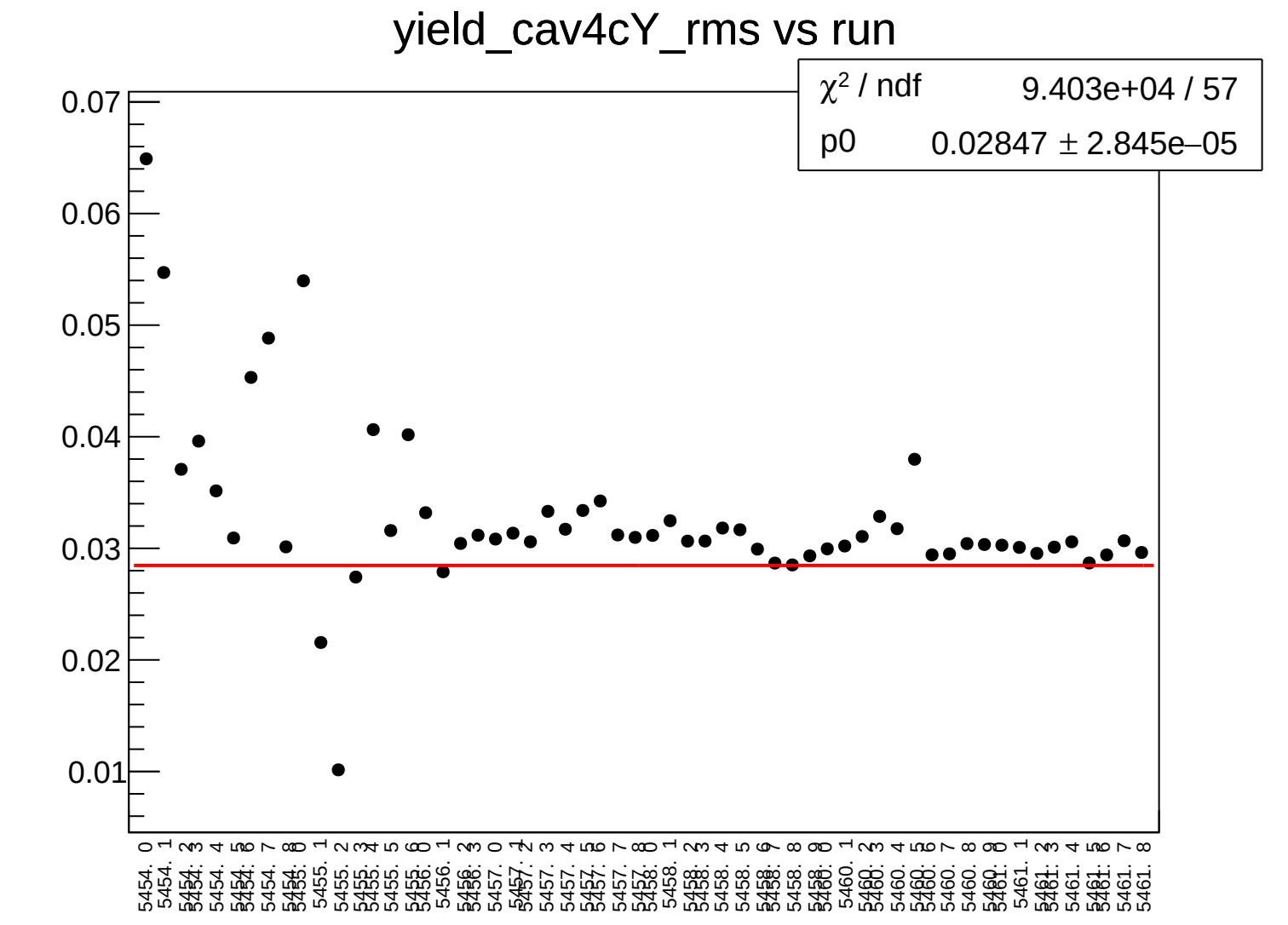

yield_cav4cX_mean vs run
χ² / ndf 2.464e+05 / 57
p0 −0.8772 ± 1.957e−05
−0.86
−0.87
−0.88
−0.89
−0.9
pull
Entries 58
Mean 1694
Std Dev 1647
100
50
0
−50
−100
−150

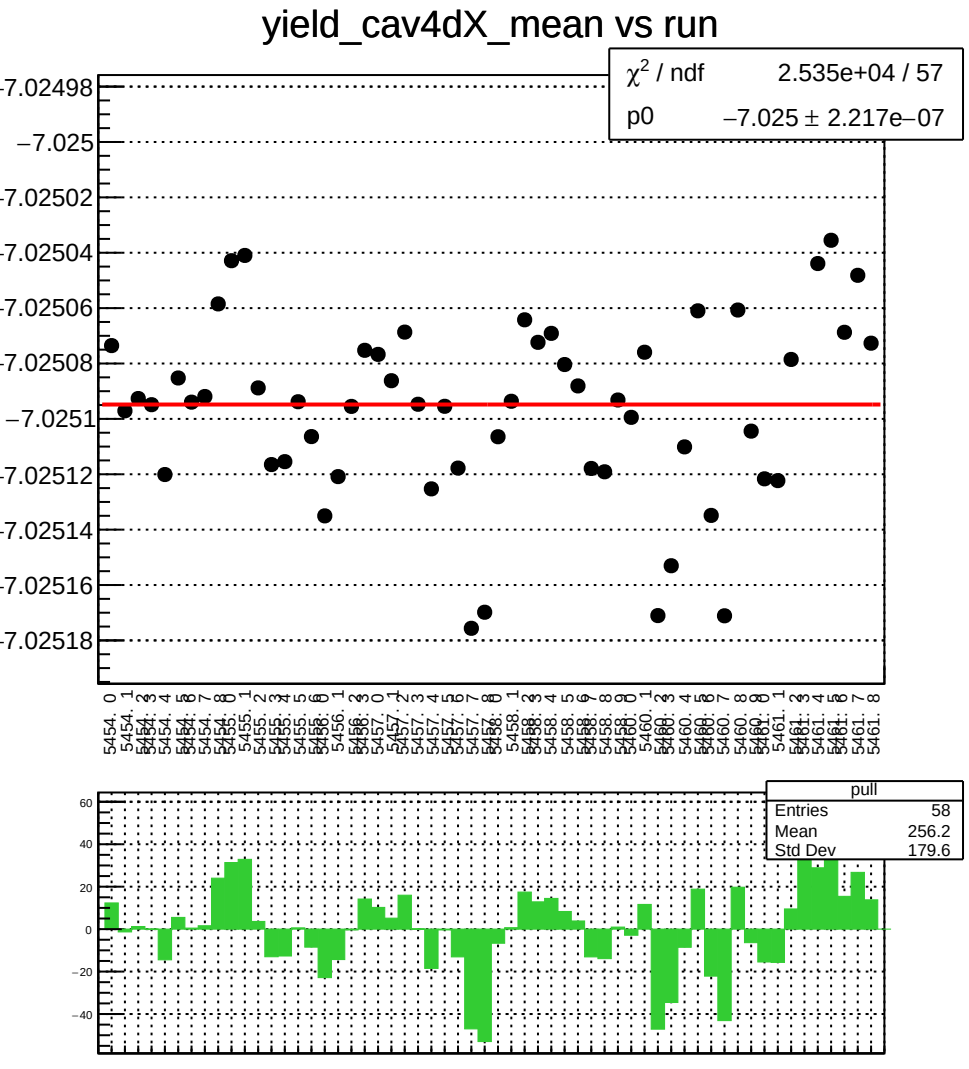

pull1D
Entries 58
Mean −5.032
Std Dev 2.346
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

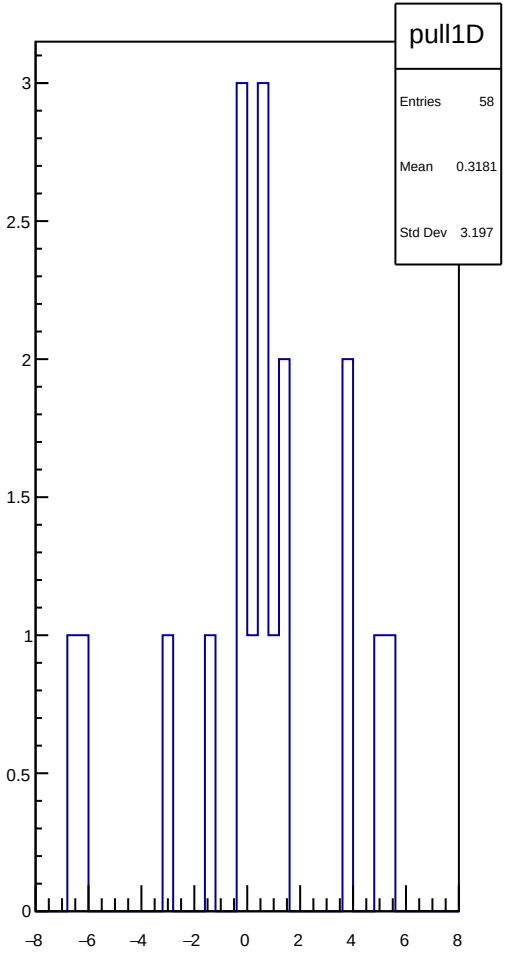

yield_cav4cX_rms vs run
χ² / ndf 6.204e+04 / 57
p0 0.01406 ± 1.383e−05
0.03
0.025
0.02
0.015
0.01
0.005

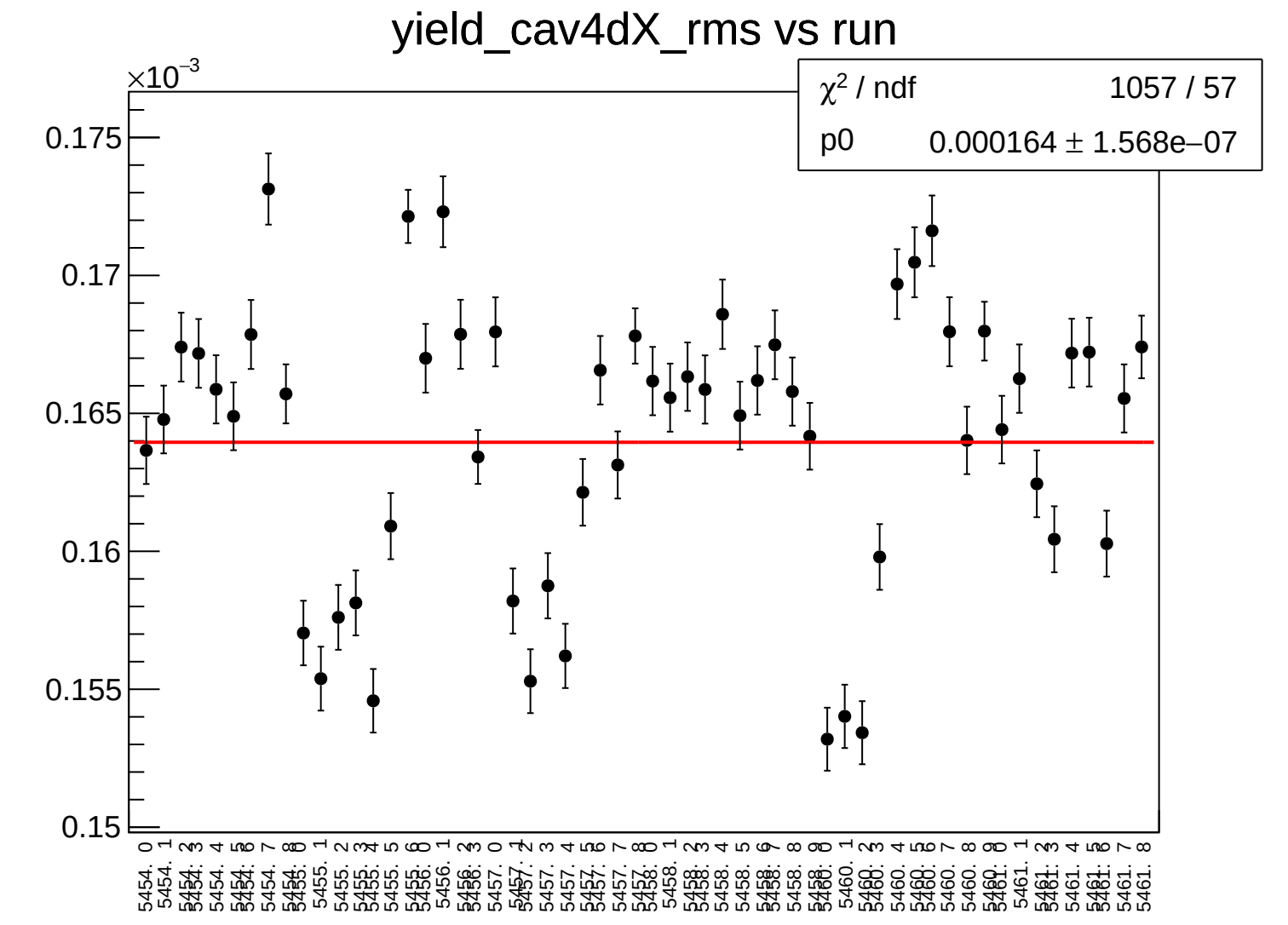

yield_cav4cY_mean vs run
χ² / ndf 6.682e+04 / 57
p0 −1.011 ± 4.024e−05
−0.98
−0.99
−1
−1.01
−1.02
−1.03
−1.04
pull
Entries 58
Mean 138.9
Std Dev 80.1
80
60
40
20
0
−20
−40
−60
−80

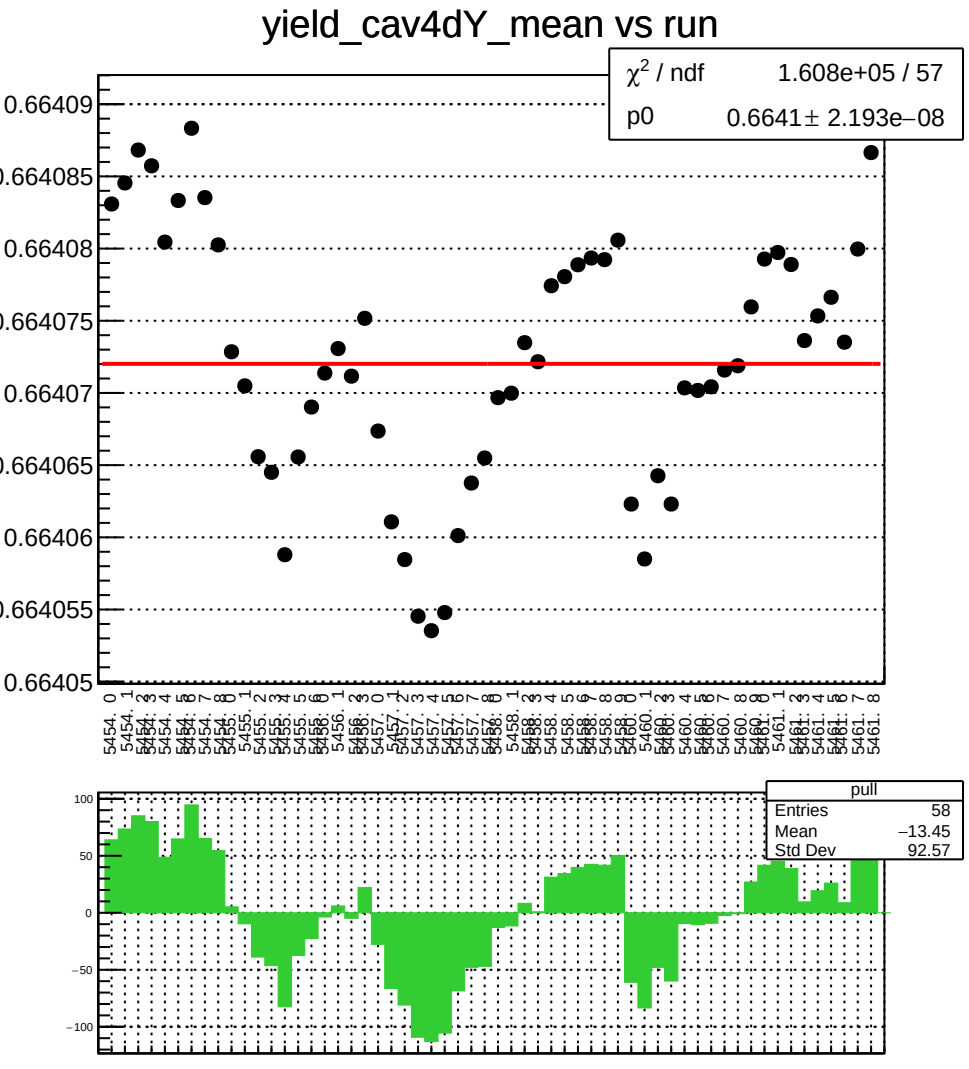

pull1D
Entries 58
Mean −3.922
Std Dev 2.708
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

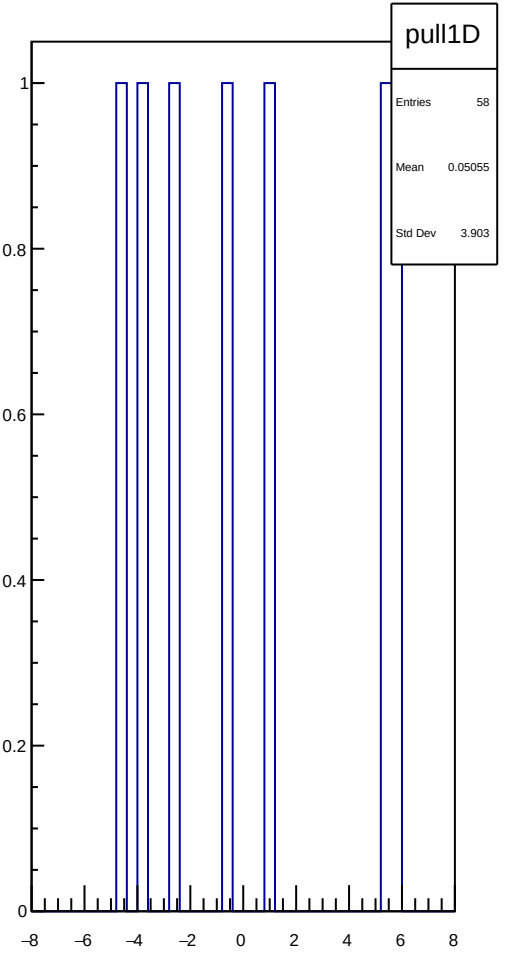

yield_cav4cY_rms vs run
χ² / ndf 9.403e+04 / 57
p0 0.02847 ± 2.845e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

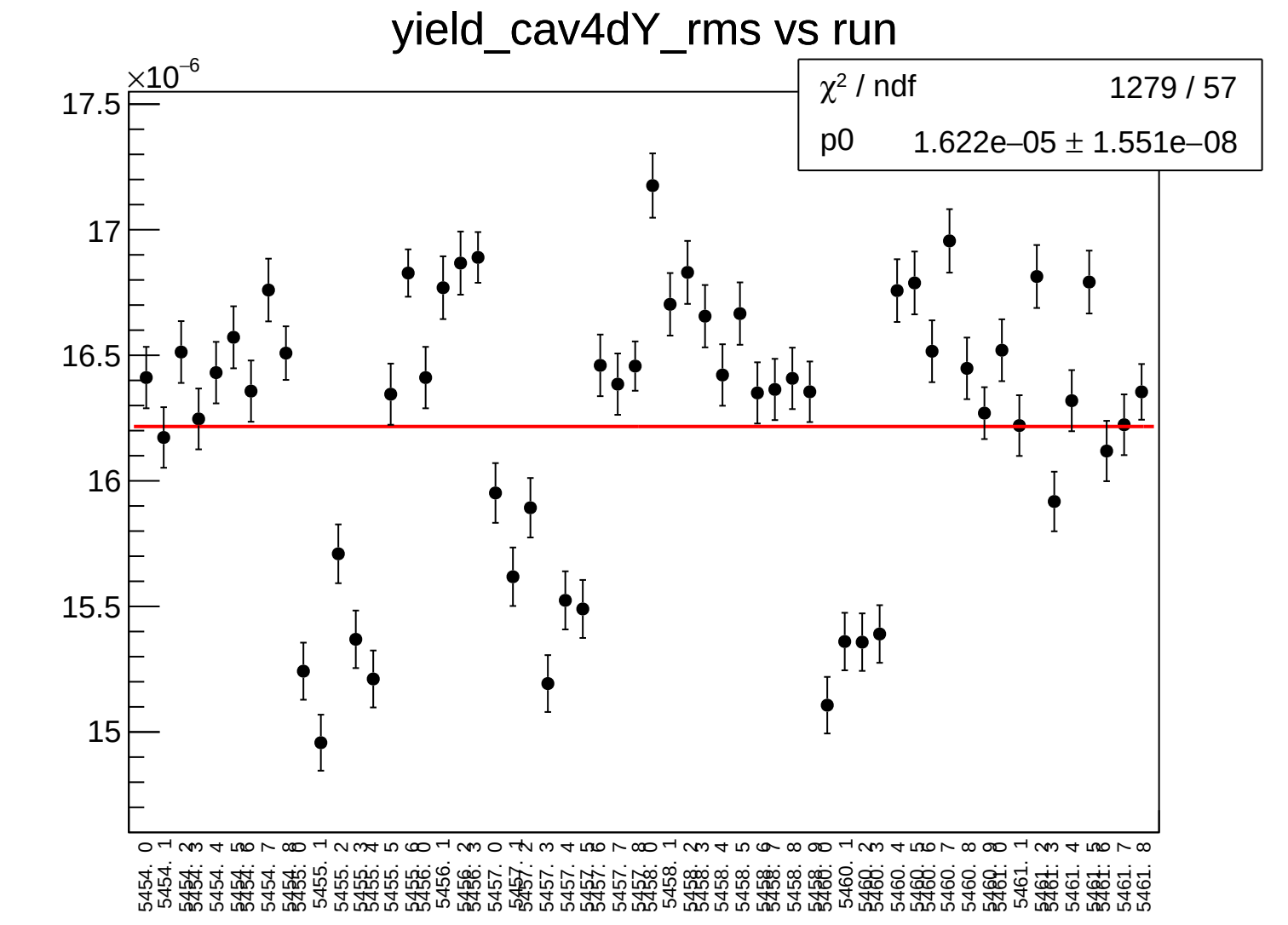

yield_cav4dX_mean vs run
χ² / ndf 2.535e+04 / 57
p0 −7.025 ± 2.217e−07
−7.02498
−7.025
−7.02502
−7.02504
−7.02506
−7.02508
−7.0251
−7.02512
−7.02514
−7.02516
−7.02518
pull
Entries 58
Mean 256.2
Std Dev 179.6
60
40
20
0
−20
−40

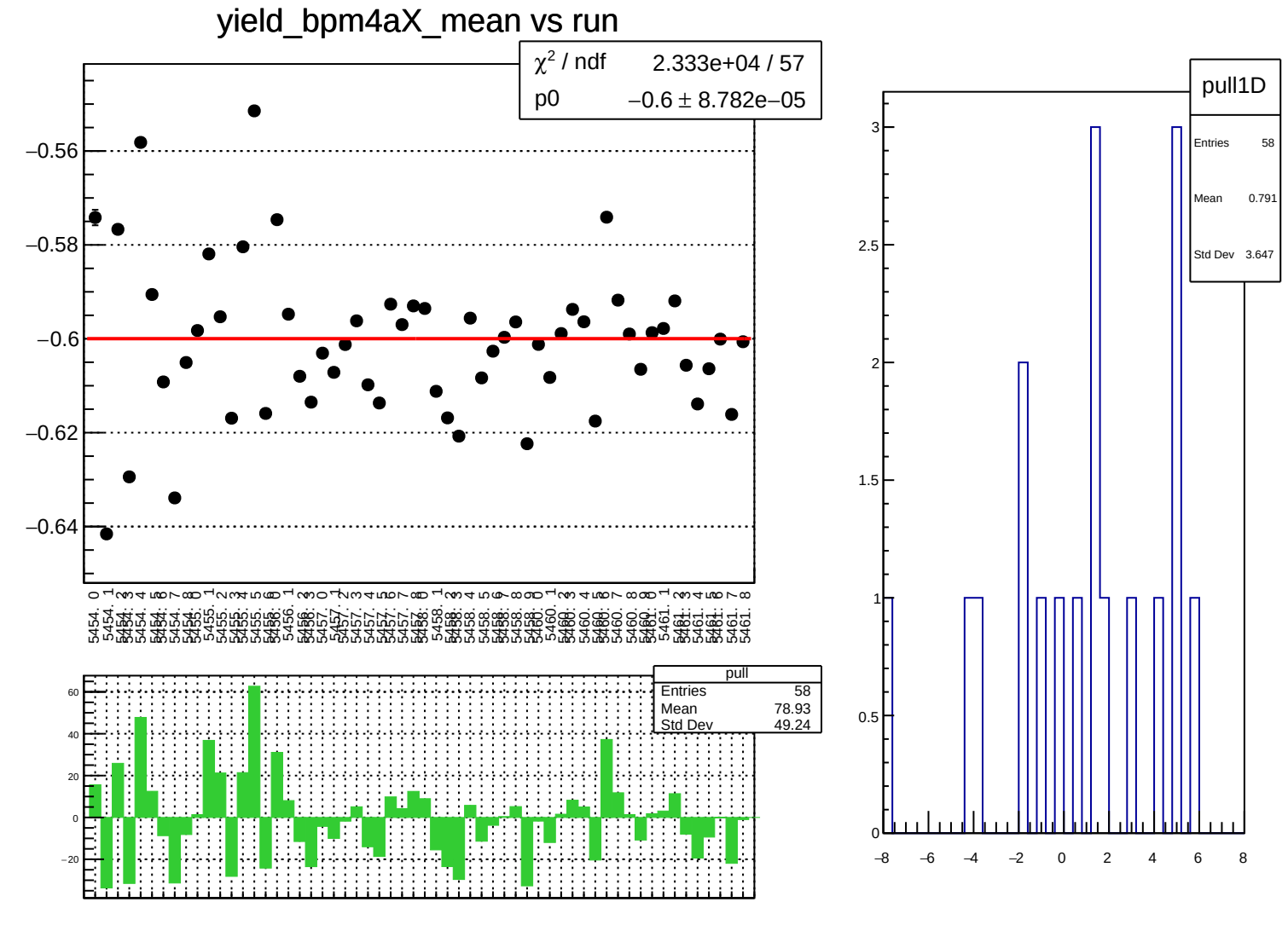

pull1D
Entries 58
Mean 0.3181
Std Dev 3.197
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

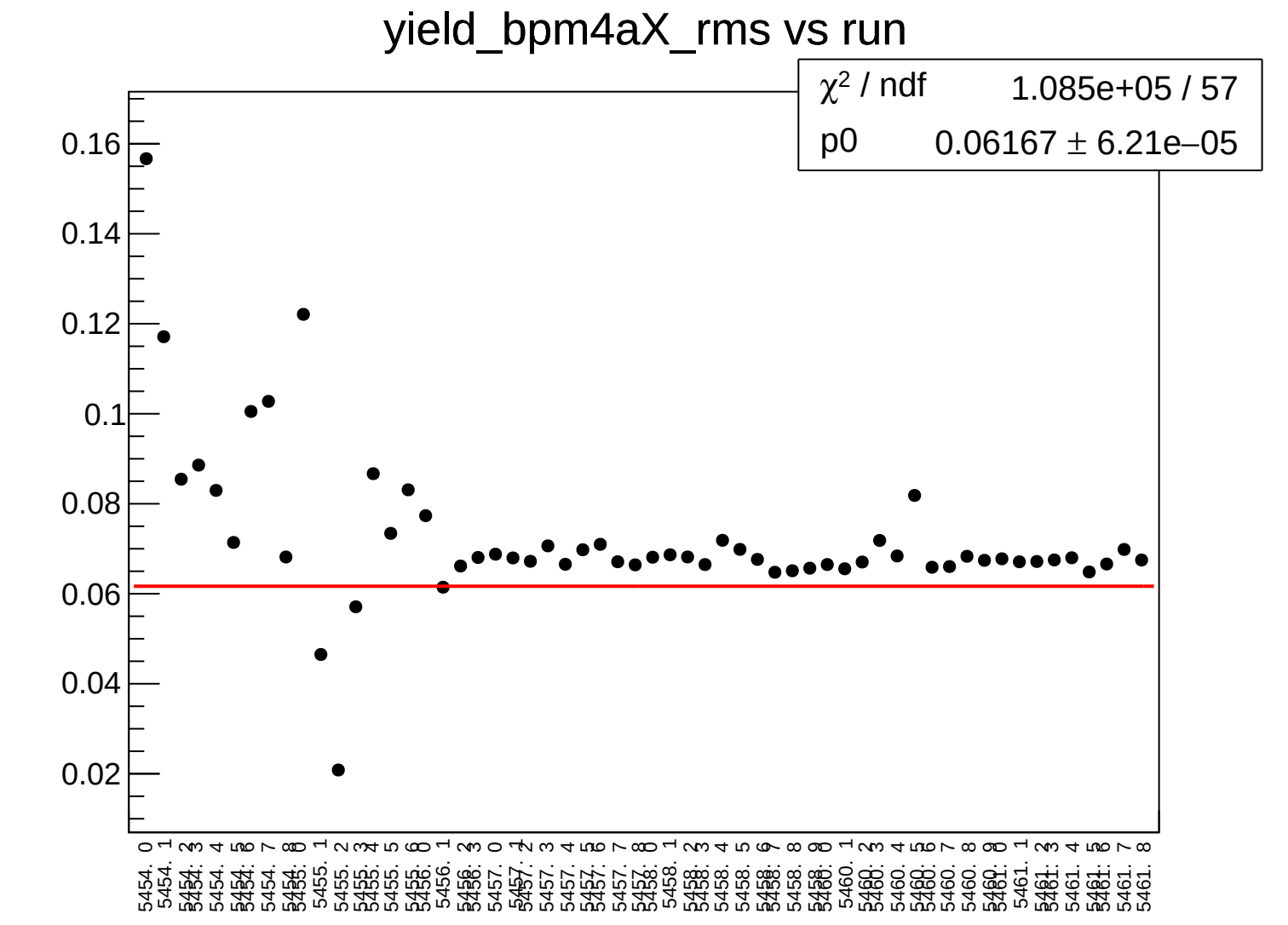

yield_cav4dX_rms vs run
×10⁻³
χ² / ndf 1057 / 57
p0 0.000164 ± 1.568e−07
0.175
0.17
0.165
0.16
0.155
0.15

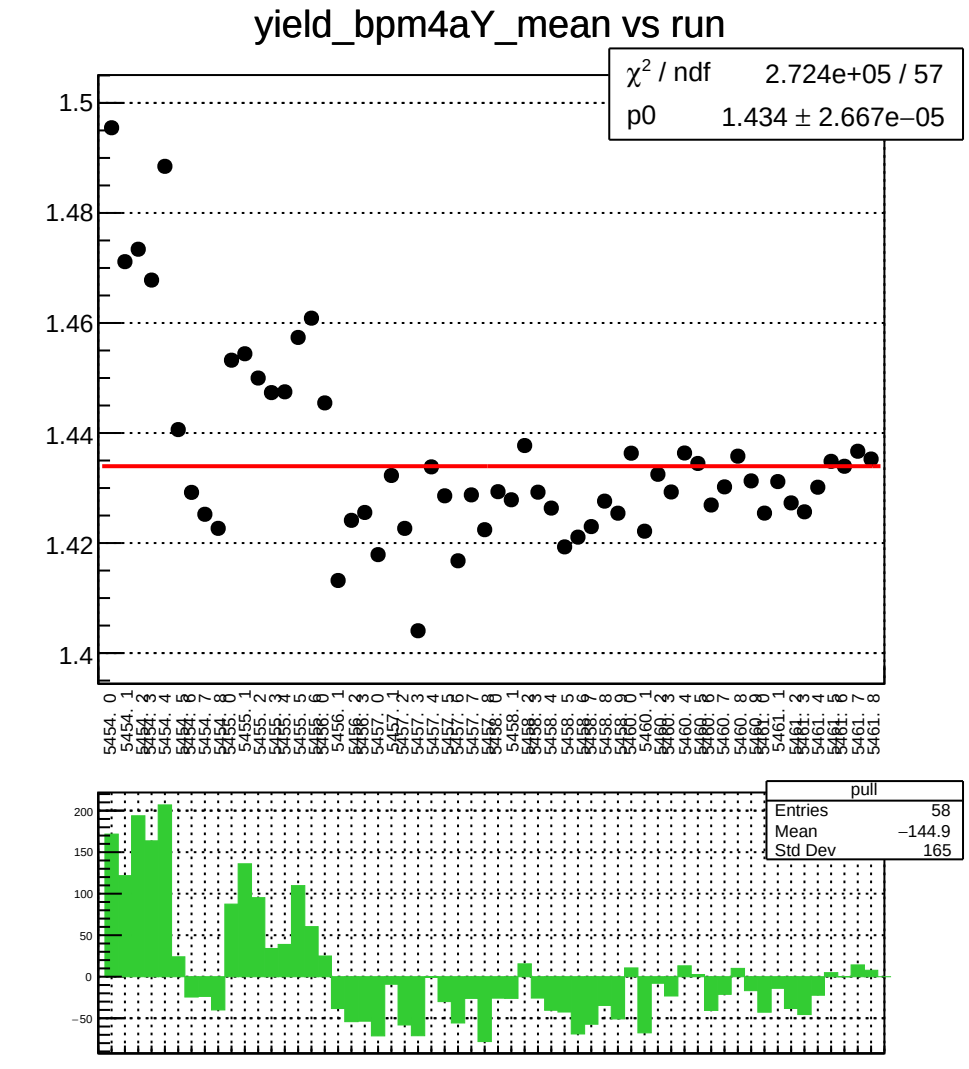

yield_cav4dY_mean vs run
χ² / ndf 1.608e+05 / 57
p0 0.6641 ± 2.193e−08
0.66409
0.664085
0.66408
0.664075
0.66407
0.664065
0.66406
0.664055
0.66405
pull
Entries 58
Mean −13.45
Std Dev 92.57
100
50
0
−50
−100

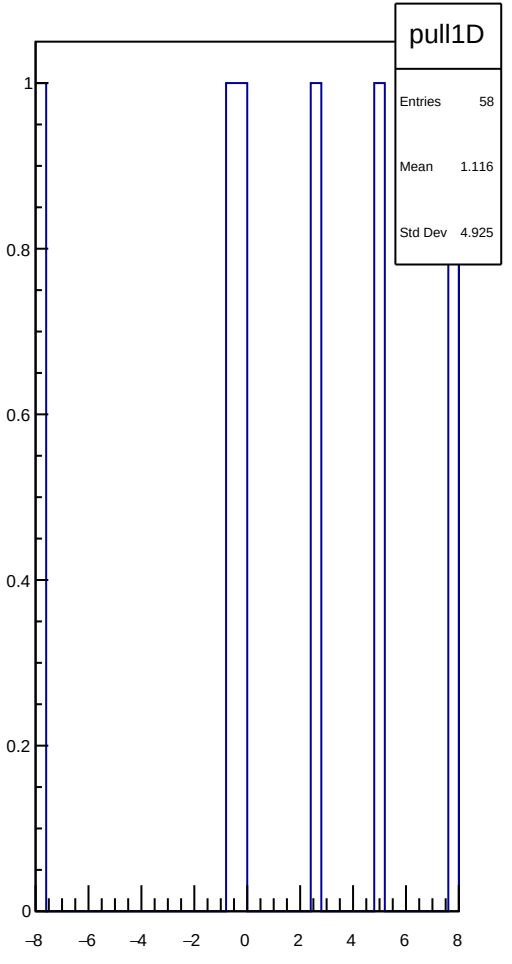

pull1D
Entries 58
Mean 0.05055
Std Dev 3.903
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

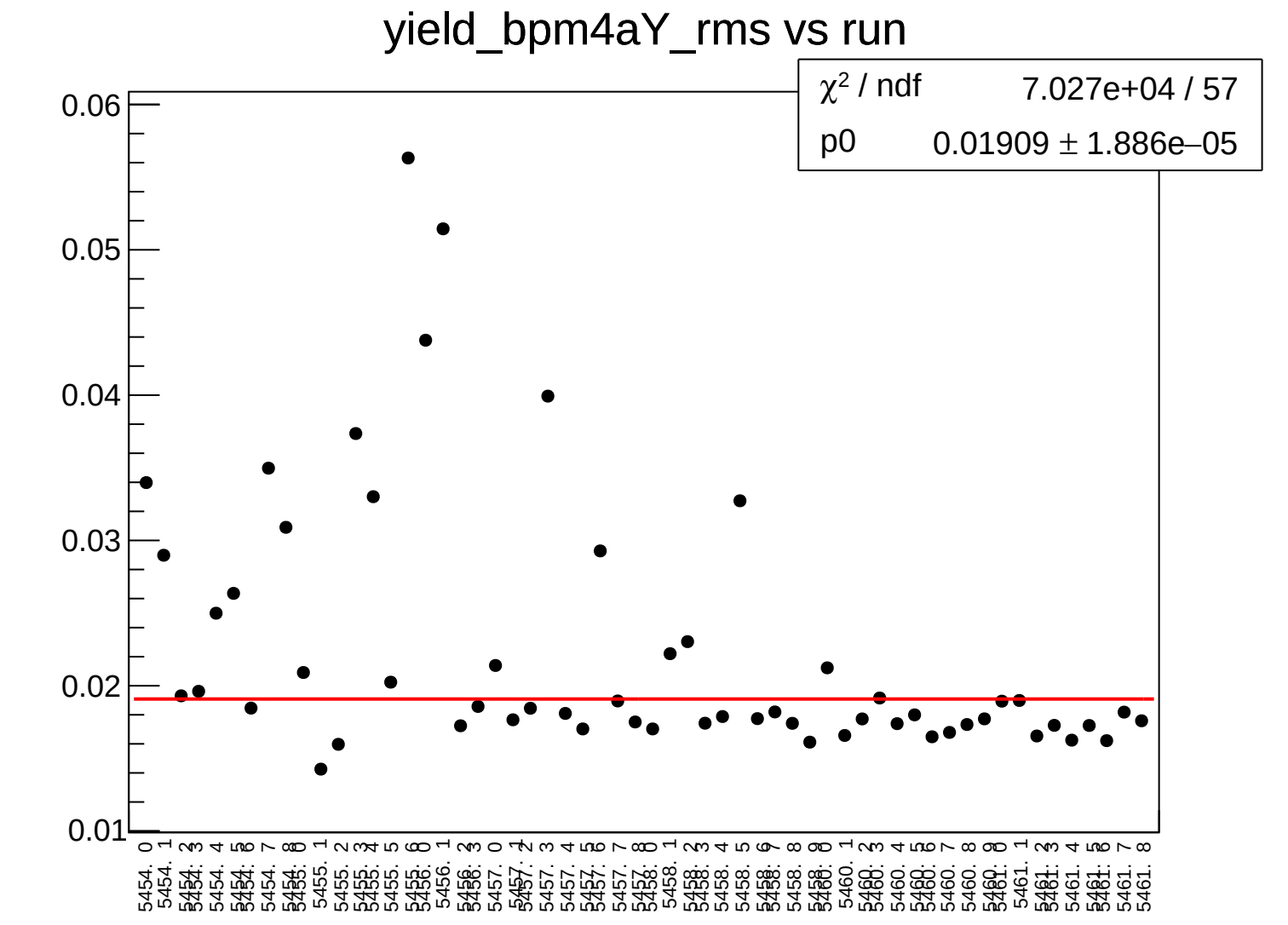

yield_cav4dY_rms vs run
×10⁻⁶
17.5
17
16.5
16
15.5
15
χ² / ndf 1279 / 57
p0 1.622e−05 ± 1.551e−08

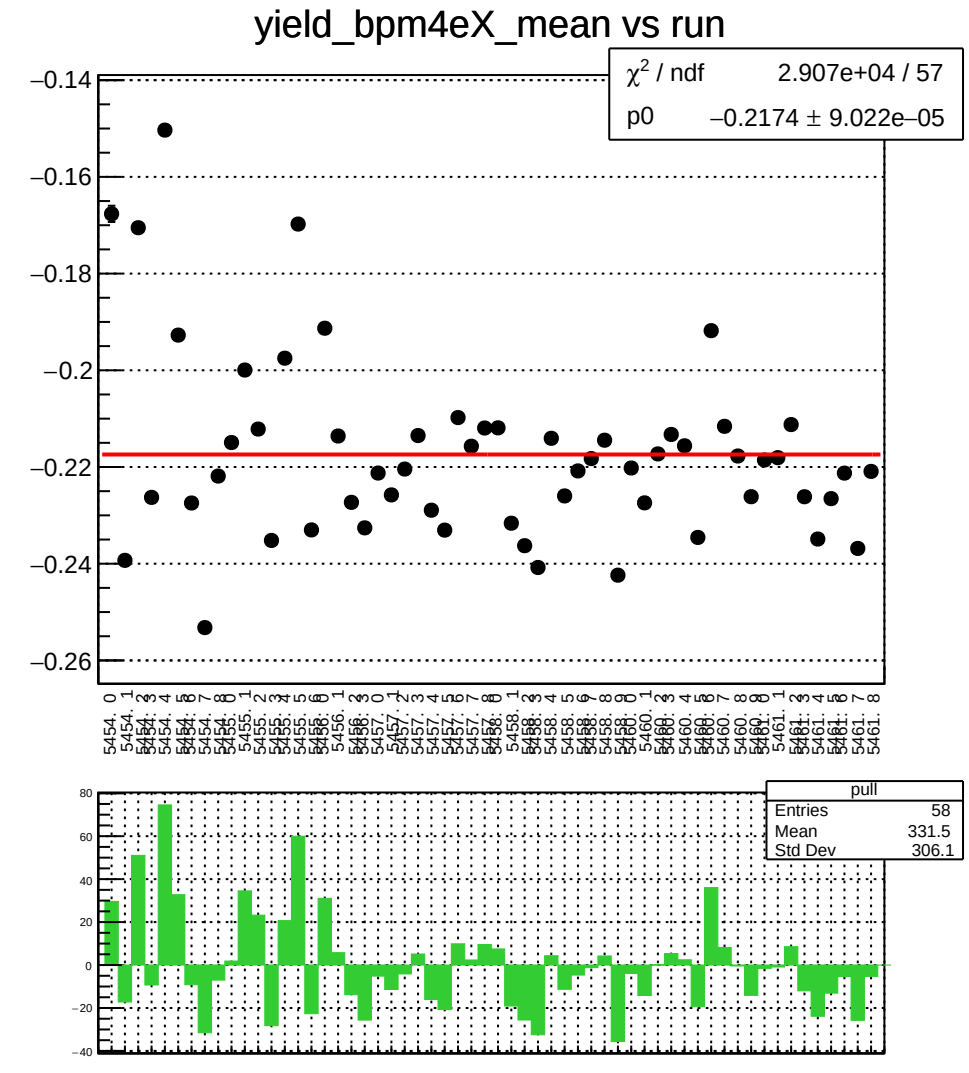

yield_bpm4aX_mean vs run
χ² / ndf 2.333e+04 / 57
p0 −0.6 ± 8.782e−05
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 58
Mean 78.93
Std Dev 49.24
60
40
20
0
−20
pull1D
Entries 58
Mean 0.791
Std Dev 3.647
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

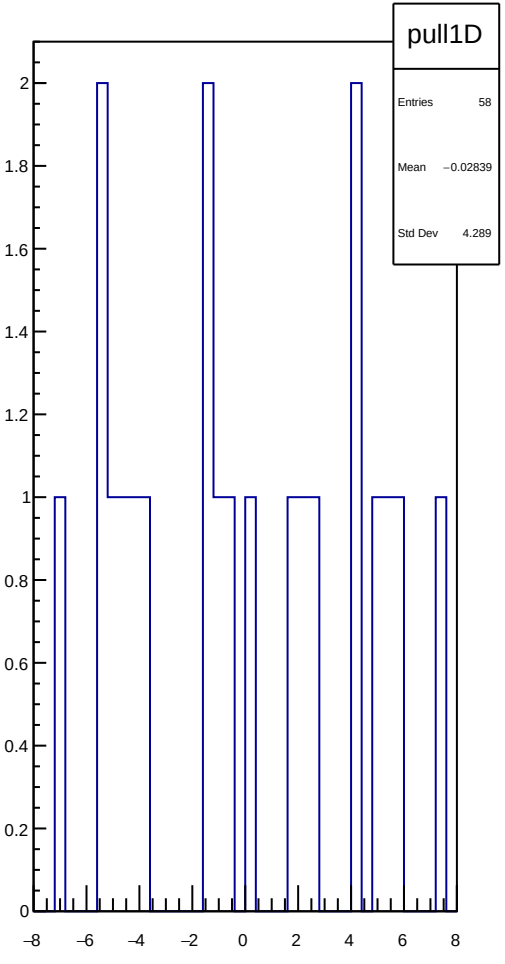

yield_bpm4aX_rms vs run
χ² / ndf 1.085e+05 / 57
p0 0.06167 ± 6.21e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

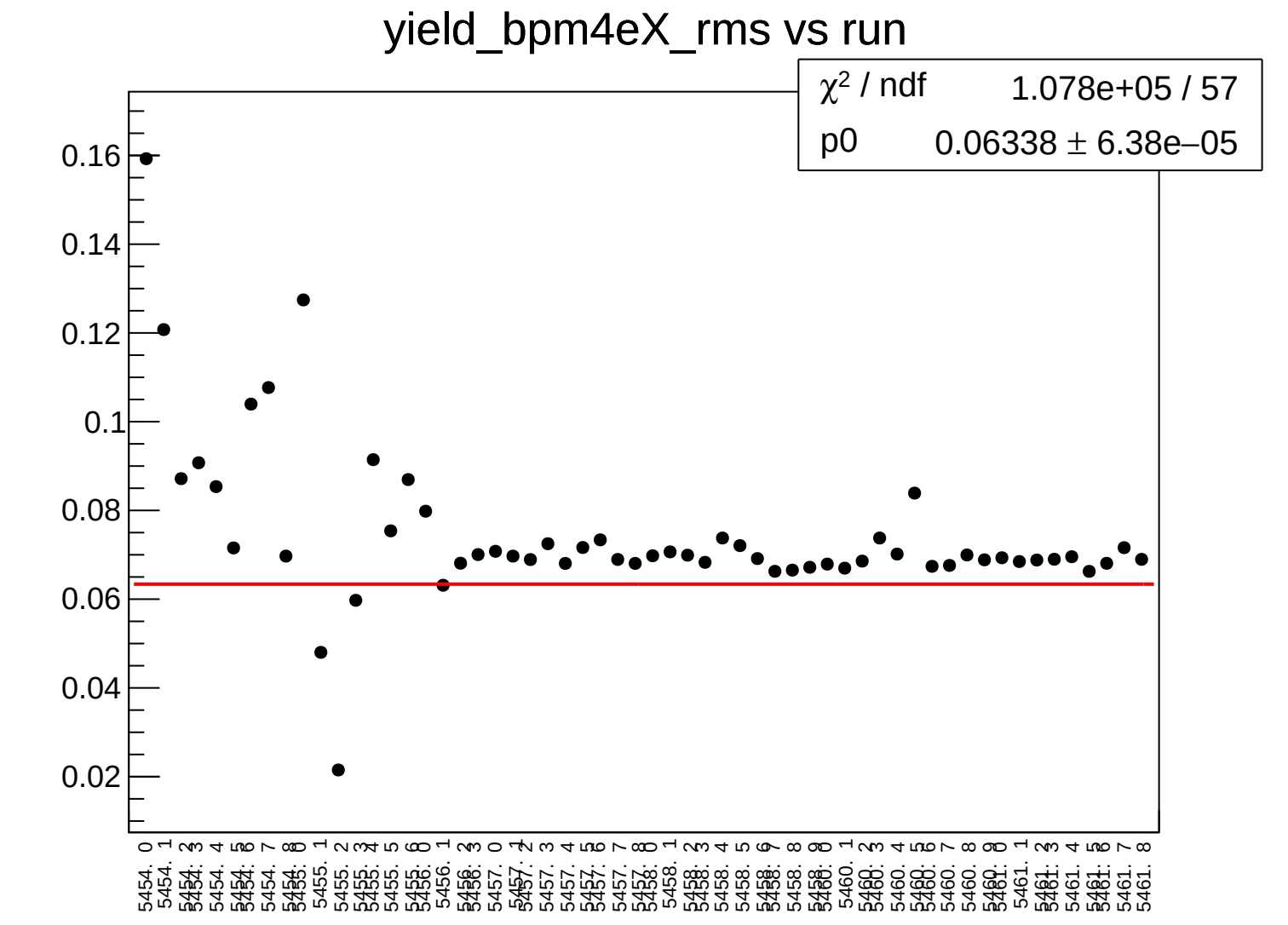

yield_bpm4aY_mean vs run
χ² / ndf 2.724e+05 / 57
p0 1.434 ± 2.667e−05
1.5
1.48
1.46
1.44
1.42
1.4
pull
Entries 58
Mean −144.9
Std Dev 165
200
150
100
50
0
−50

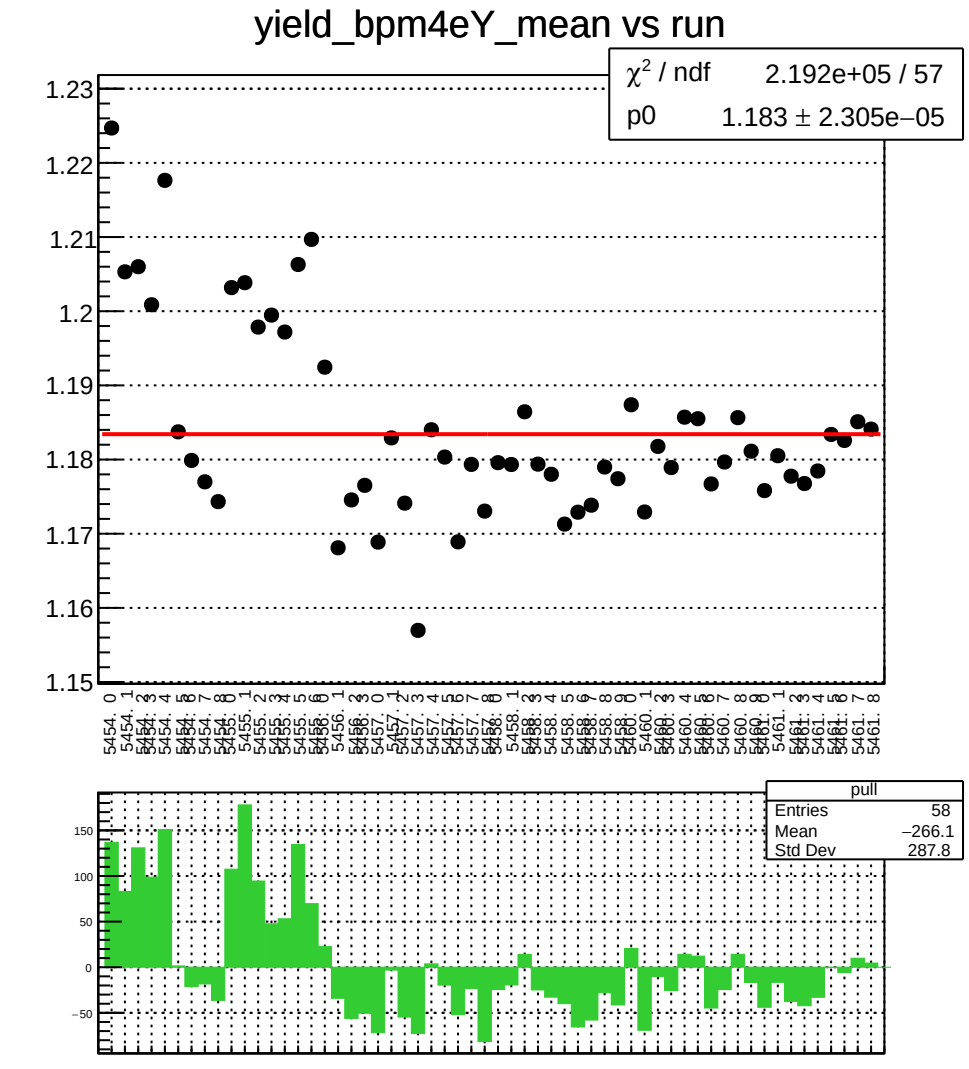

pull1D
Entries 58
Mean 1.116
Std Dev 4.925
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

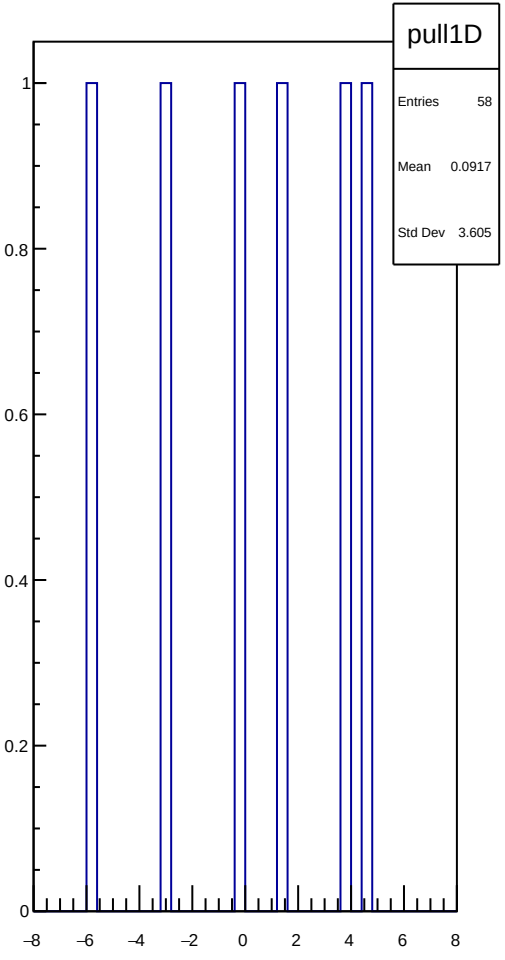

yield_bpm4aY_rms vs run
χ² / ndf 7.027e+04 / 57
p0 0.01909 ± 1.886e–05
0.06
0.05
0.04
0.03
0.02
0.01

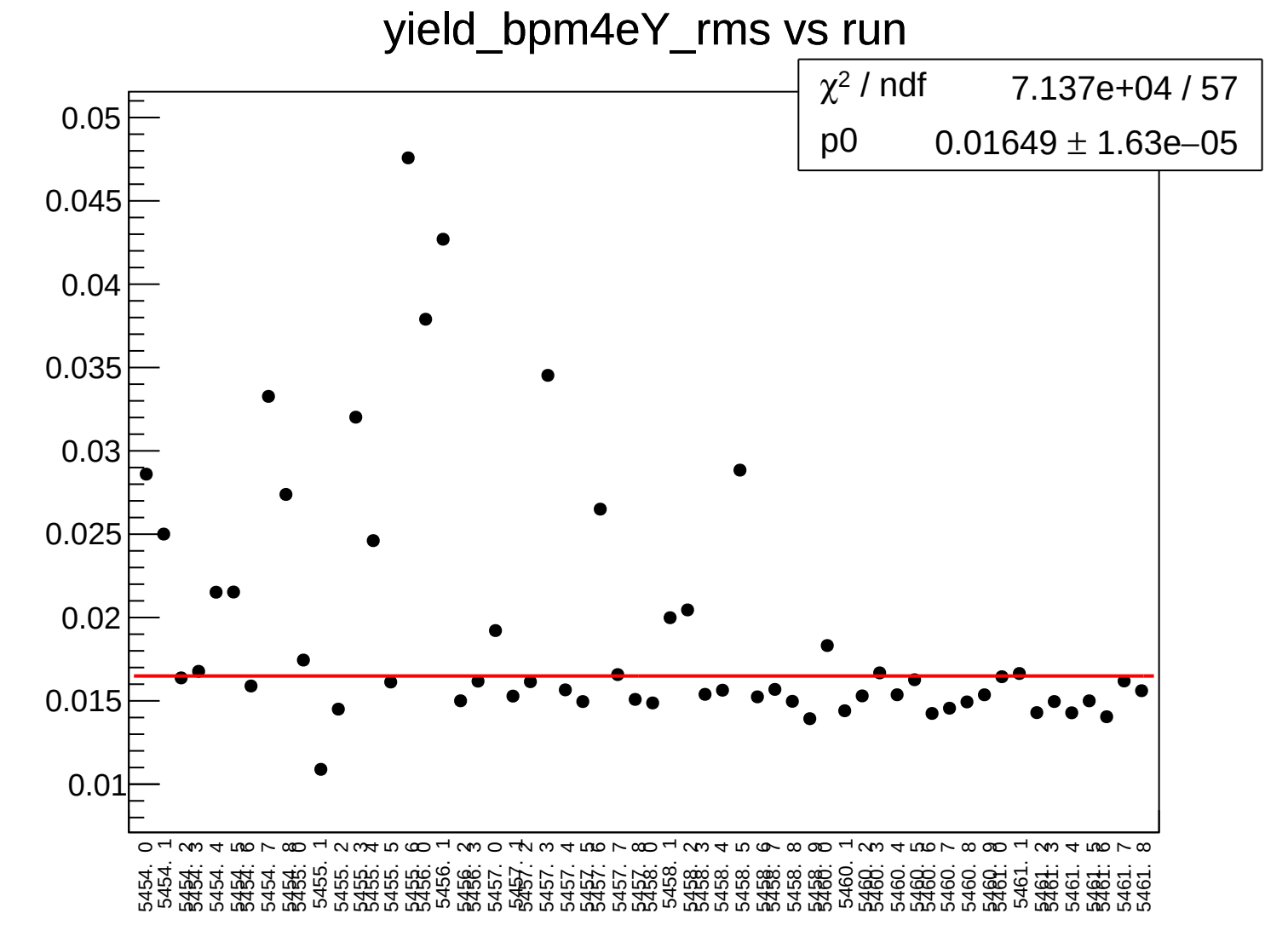

yield_bpm4eX_mean vs run
χ² / ndf 2.907e+04 / 57
p0 −0.2174 ± 9.022e−05
pull
Entries 58
Mean 331.5
Std Dev 306.1

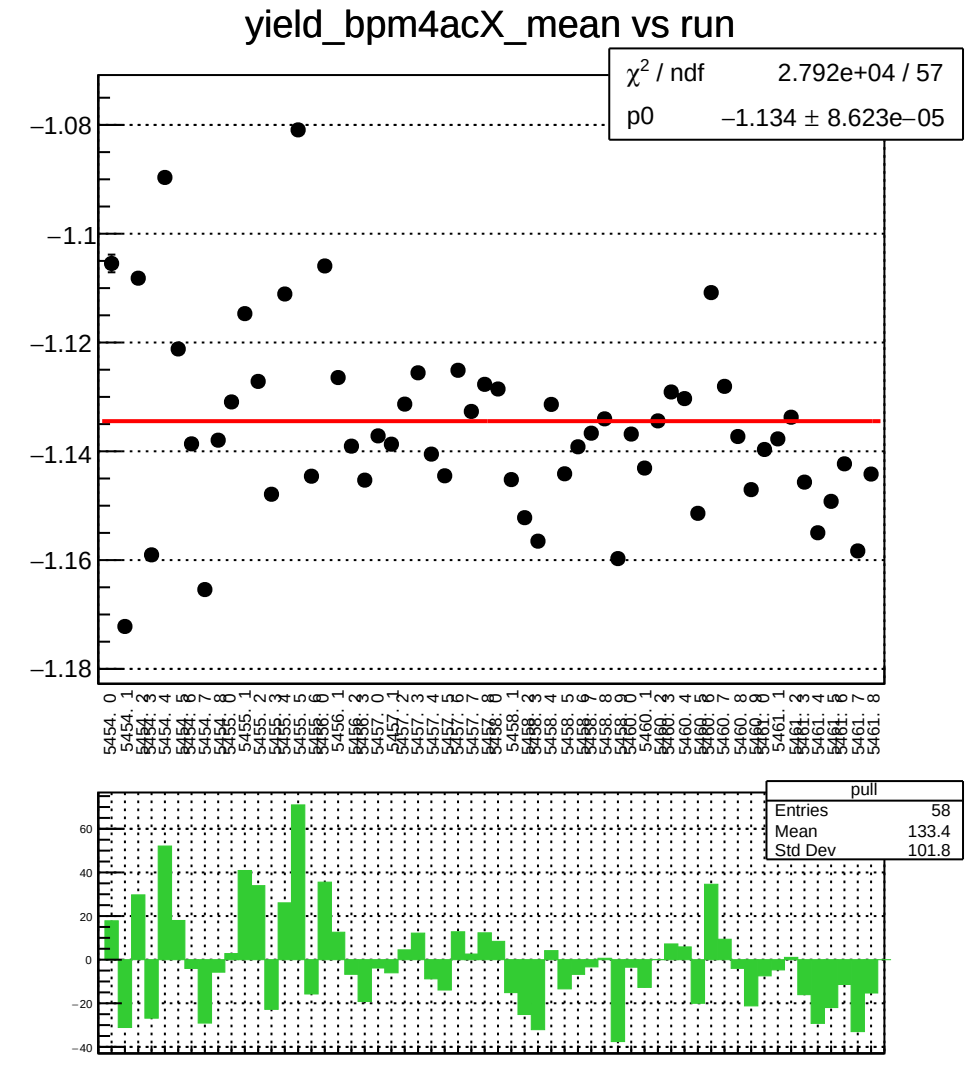

pull1D
Entries 58
Mean −0.02839
Std Dev 4.289

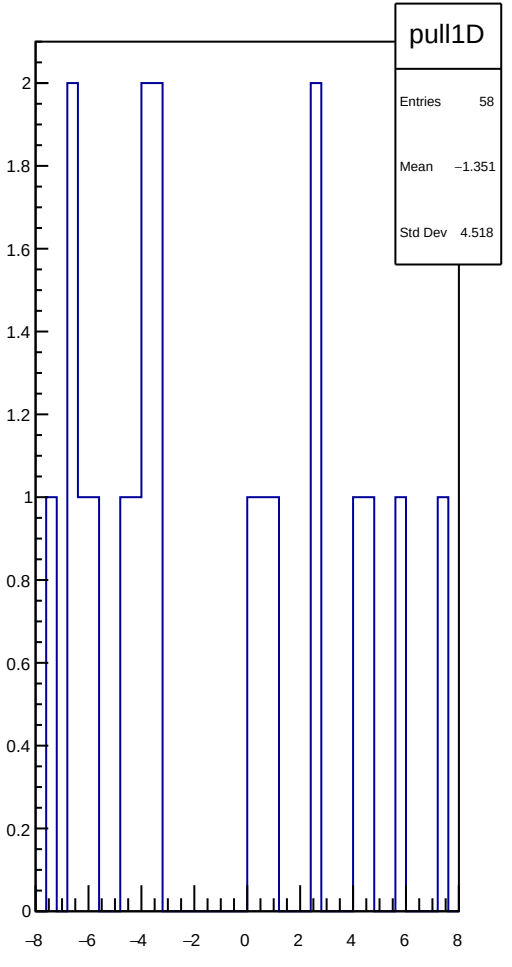

yield_bpm4eX_rms vs run
χ² / ndf 1.078e+05 / 57
p0 0.06338 ± 6.38e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

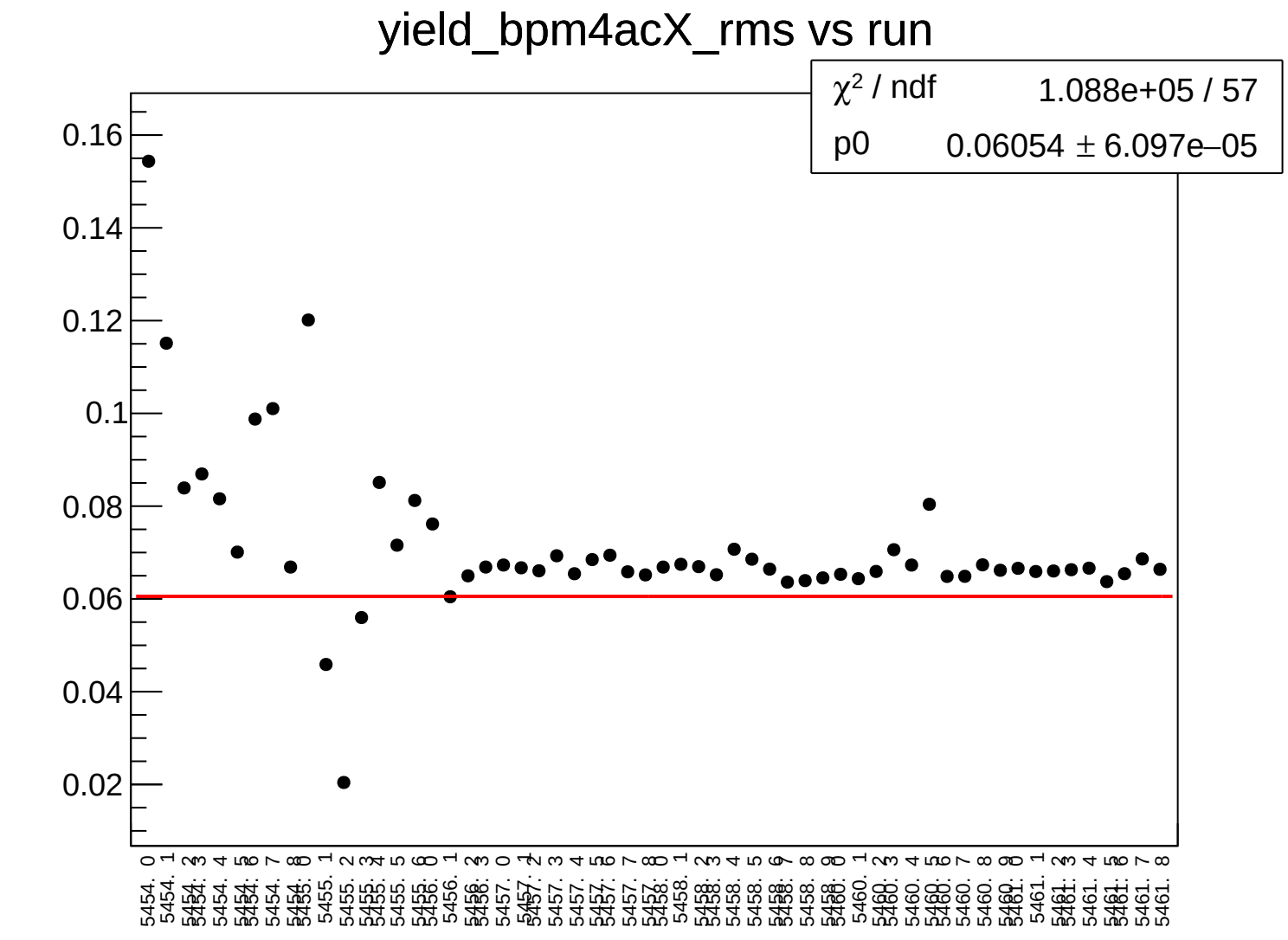

yield_bpm4eY_mean vs run
χ² / ndf 2.192e+05 / 57
p0 1.183 ± 2.305e−05
pull
Entries 58
Mean −266.1
Std Dev 287.8

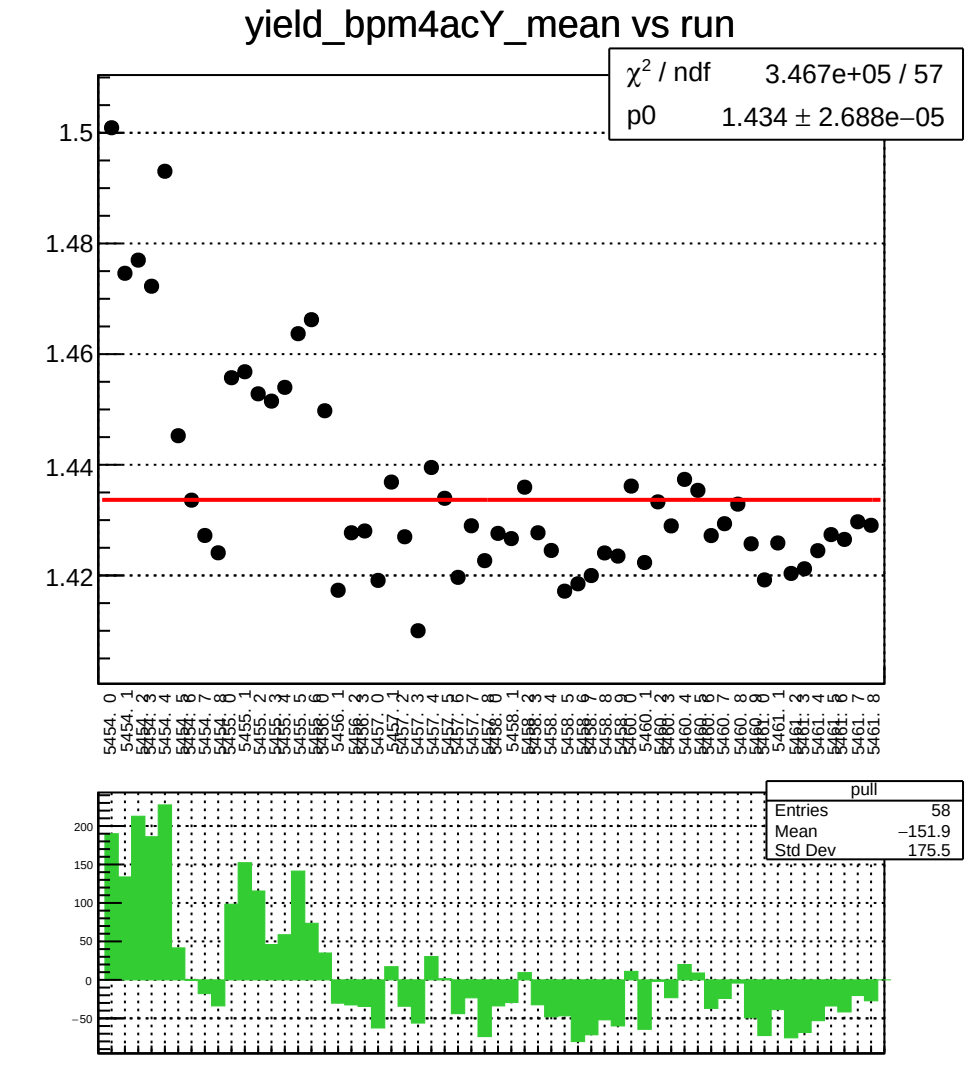

pull1D
Entries 58
Mean 0.0917
Std Dev 3.605

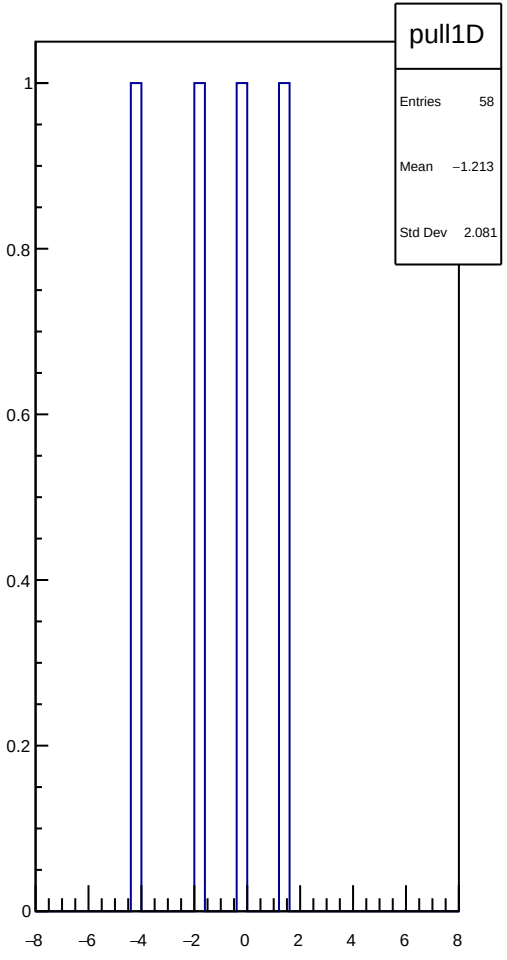

yield_bpm4eY_rms vs run
χ² / ndf 7.137e+04 / 57
p0 0.01649 ± 1.63e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

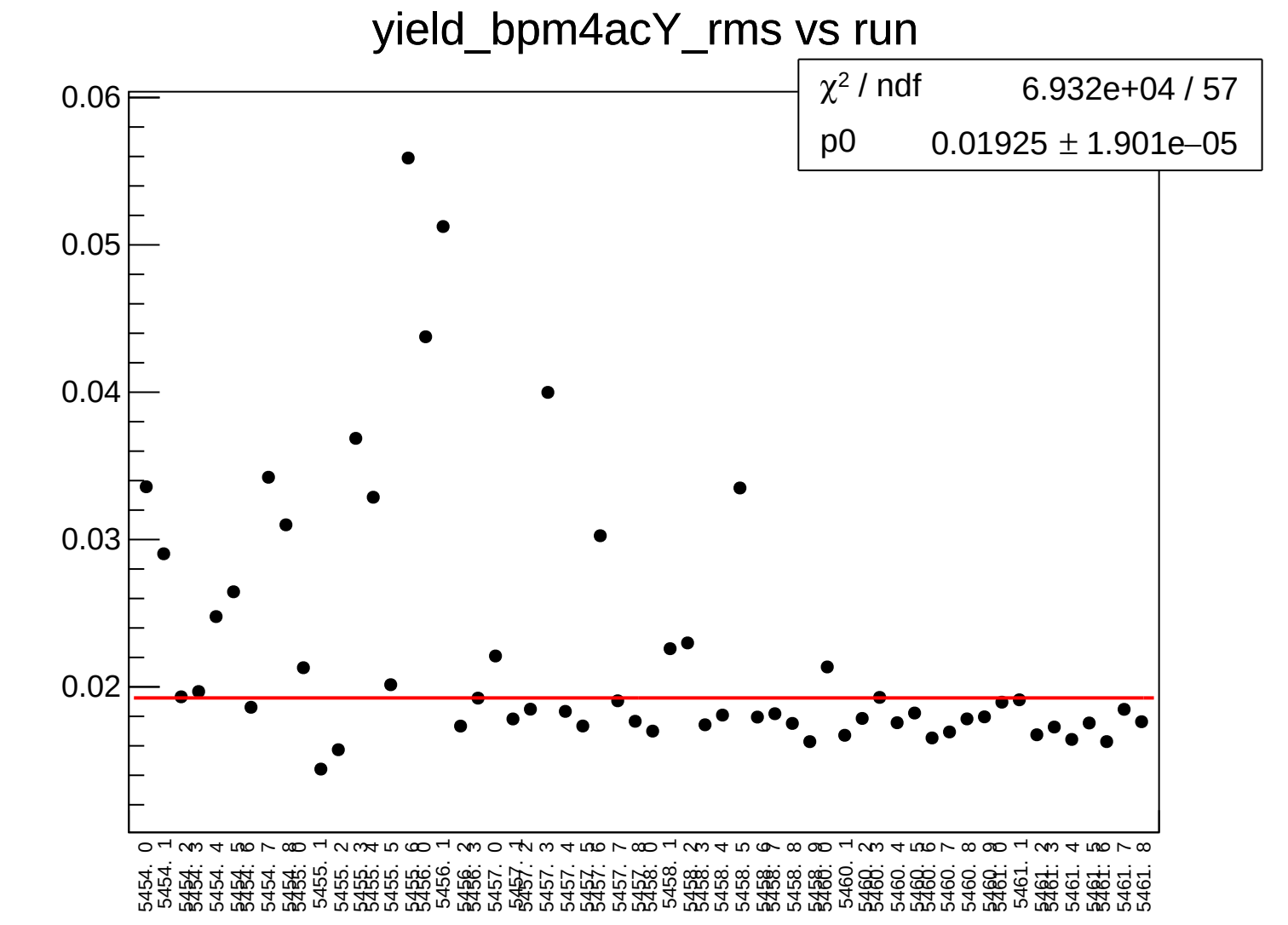

yield_bpm4acX_mean vs run
χ² / ndf 2.792e+04 / 57
p0 −1.134 ± 8.623e−05
−1.08
−1.1
−1.12
−1.14
−1.16
−1.18
pull
Entries 58
Mean 133.4
Std Dev 101.8
60
40
20
0
−20
−40

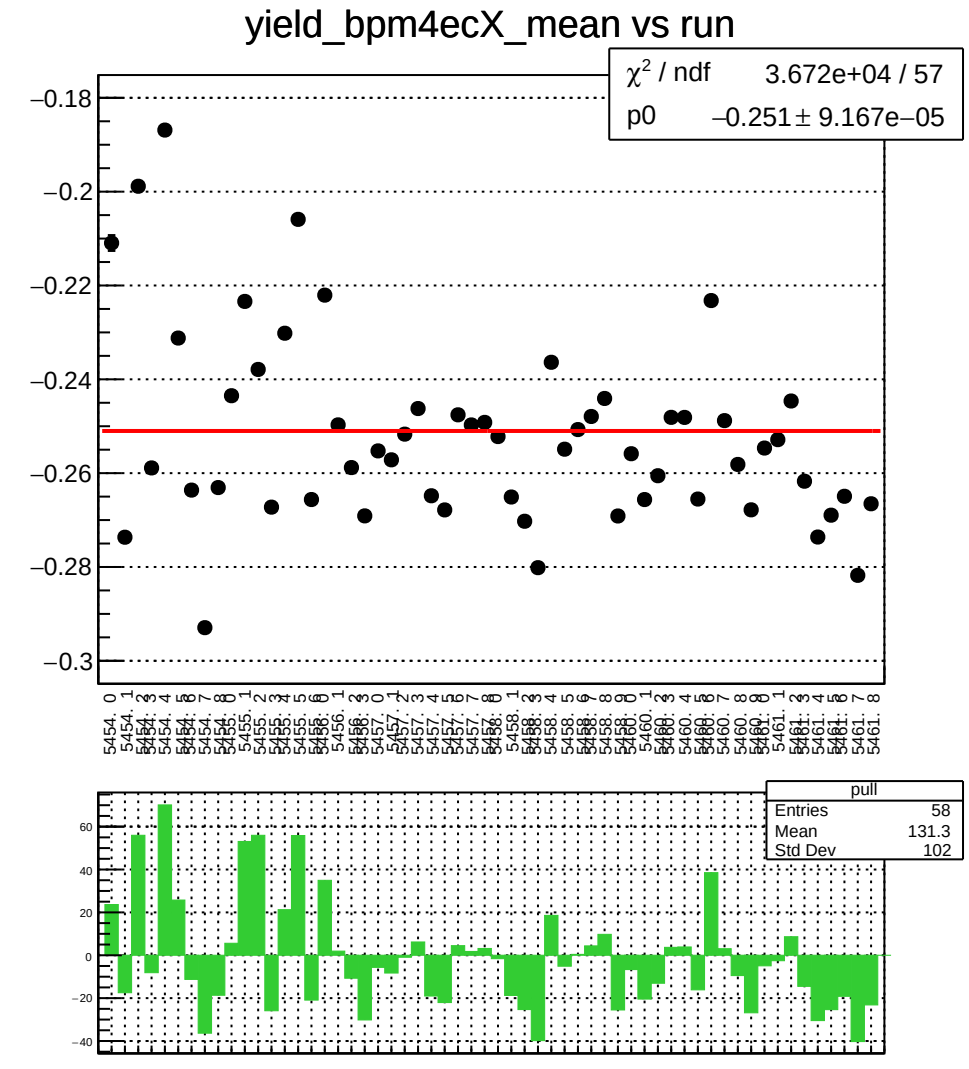

pull1D
Entries 58
Mean −1.351
Std Dev 4.518
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

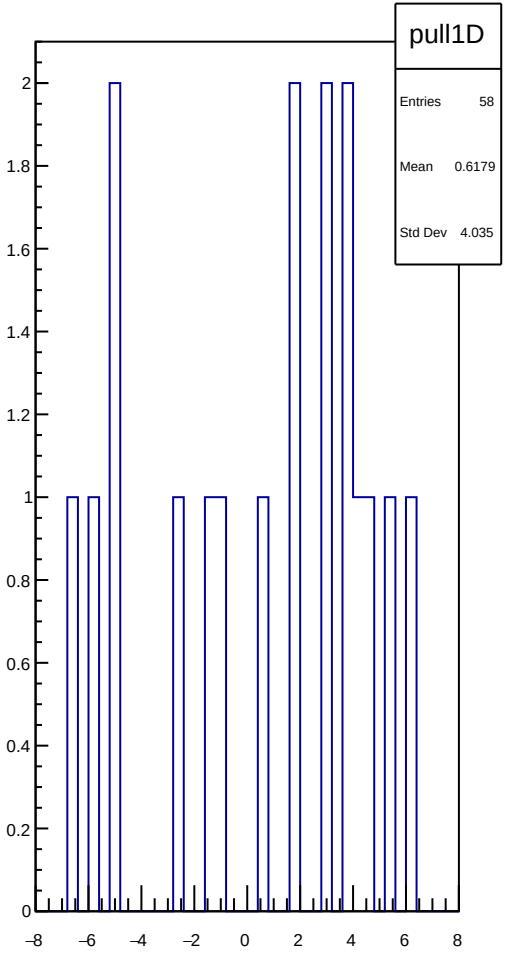

yield_bpm4acX_rms vs run
χ² / ndf 1.088e+05 / 57
p0 0.06054 ± 6.097e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

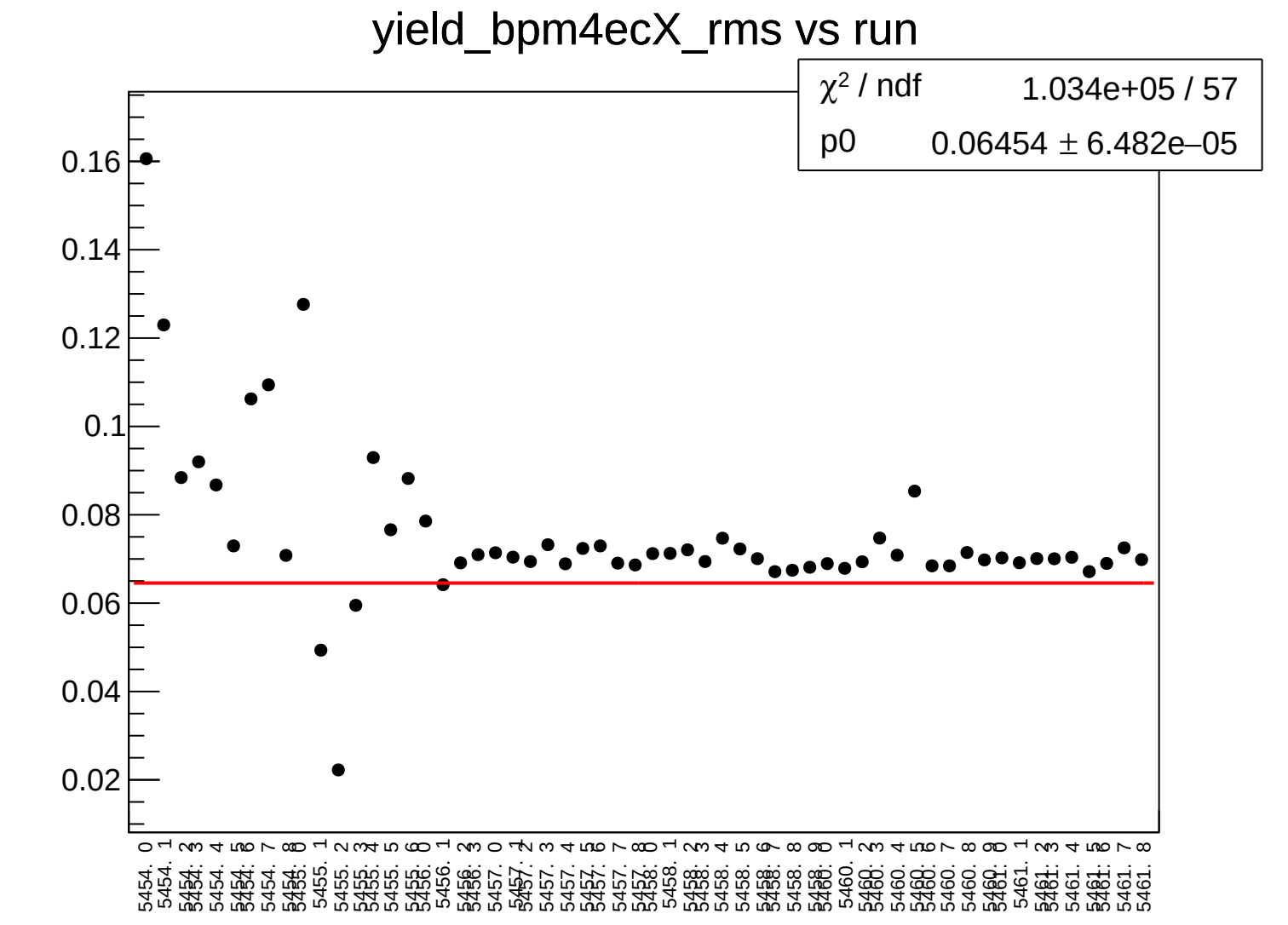

yield_bpm4acY_mean vs run
χ² / ndf 3.467e+05 / 57
p0 1.434 ± 2.688e−05
1.5
1.48
1.46
1.44
1.42
pull
Entries 58
Mean −151.9
Std Dev 175.5
200
150
100
50
0
−50

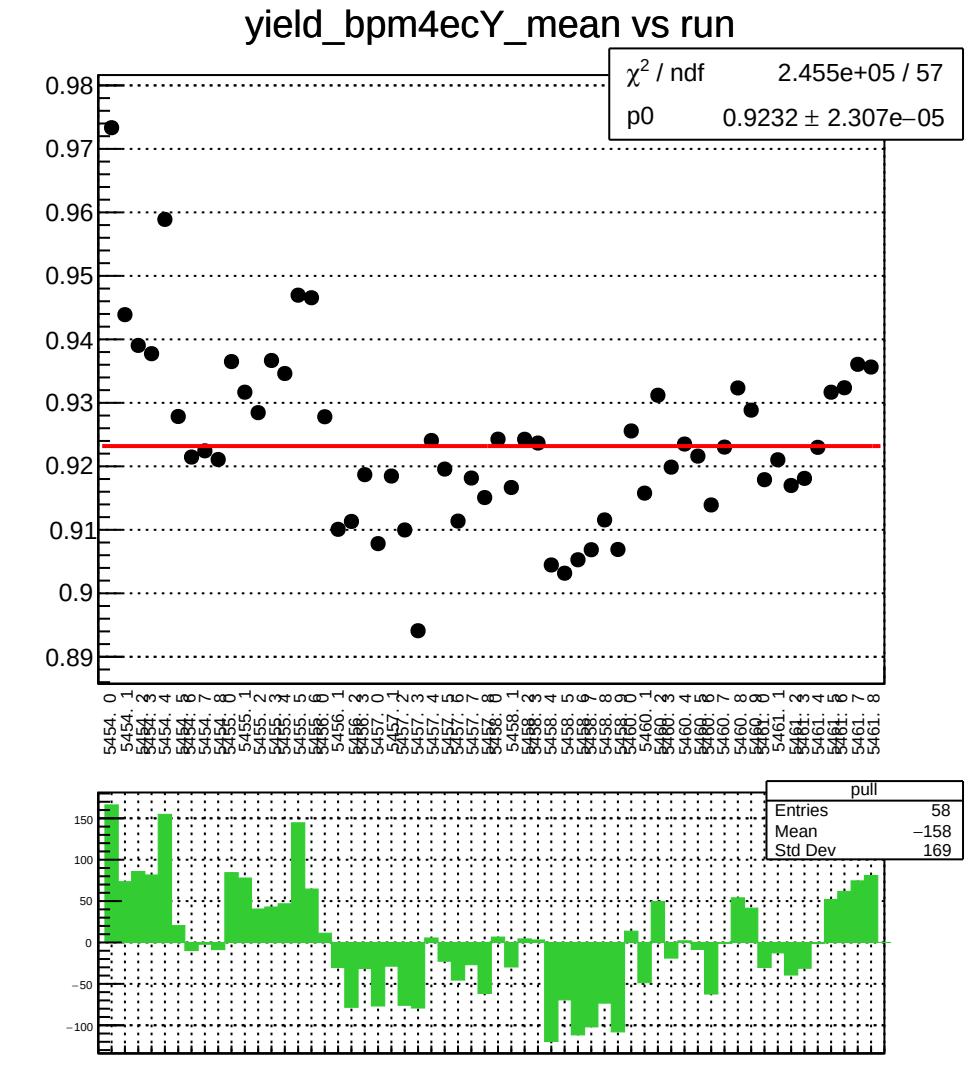

pull1D
Entries 58
Mean −1.213
Std Dev 2.081
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

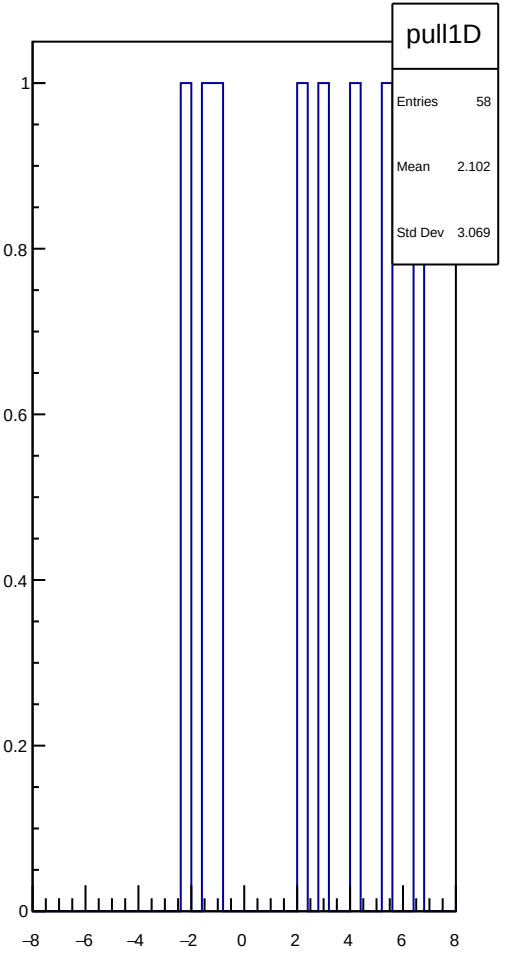

yield_bpm4acY_rms vs run
χ² / ndf 6.932e+04 / 57
p0 0.01925 ± 1.901e–05
0.06
0.05
0.04
0.03
0.02

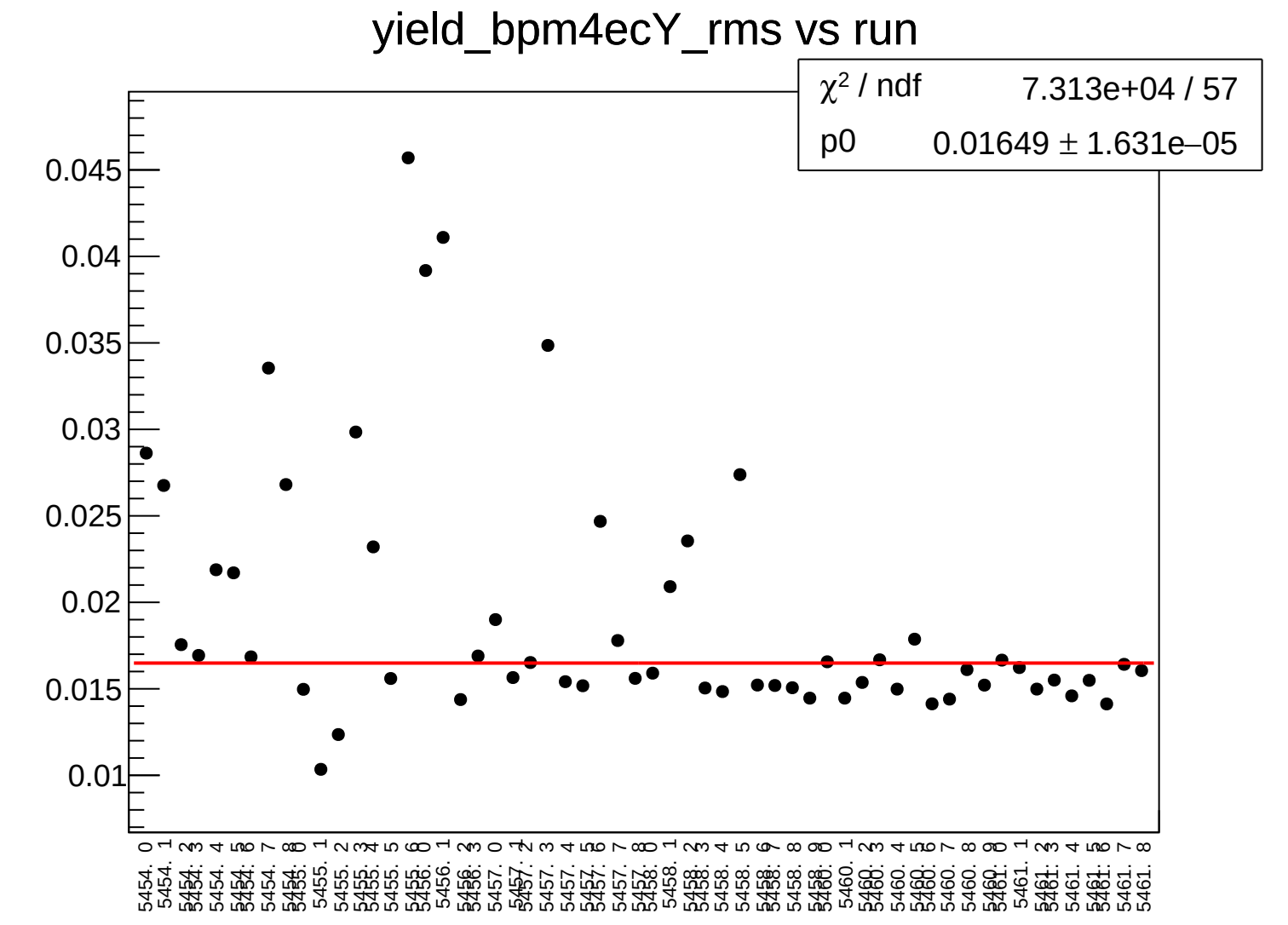

yield_bpm4ecX_mean vs run
χ² / ndf 3.672e+04 / 57
p0 −0.251 ± 9.167e−05
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
pull
Entries 58
Mean 131.3
Std Dev 102
60
40
20
0
−20
−40

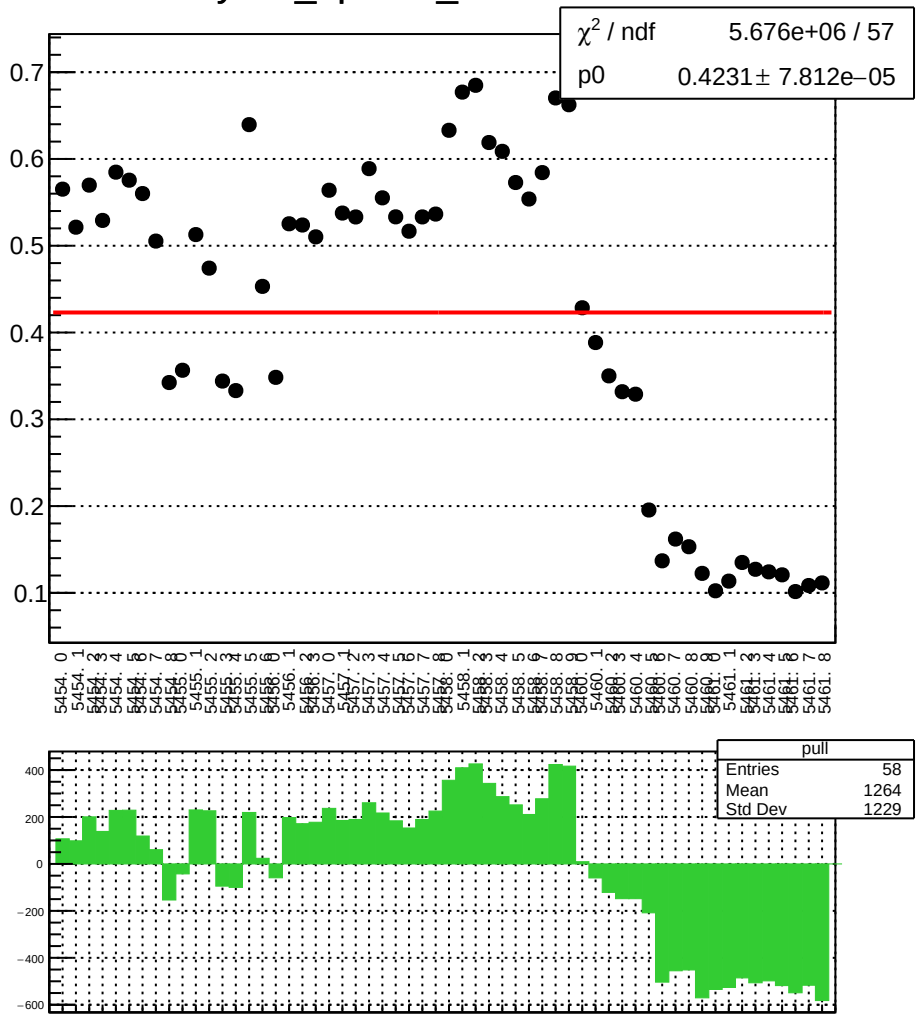

pull1D
Entries 58
Mean 0.6179
Std Dev 4.035
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

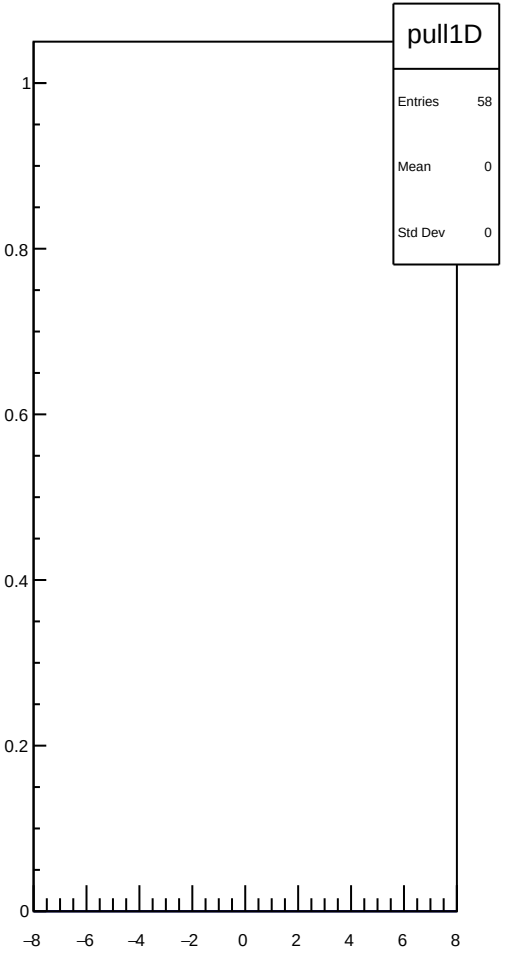

yield_bpm4ecX_rms vs run
χ² / ndf 1.034e+05 / 57
p0 0.06454 ± 6.482e−05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

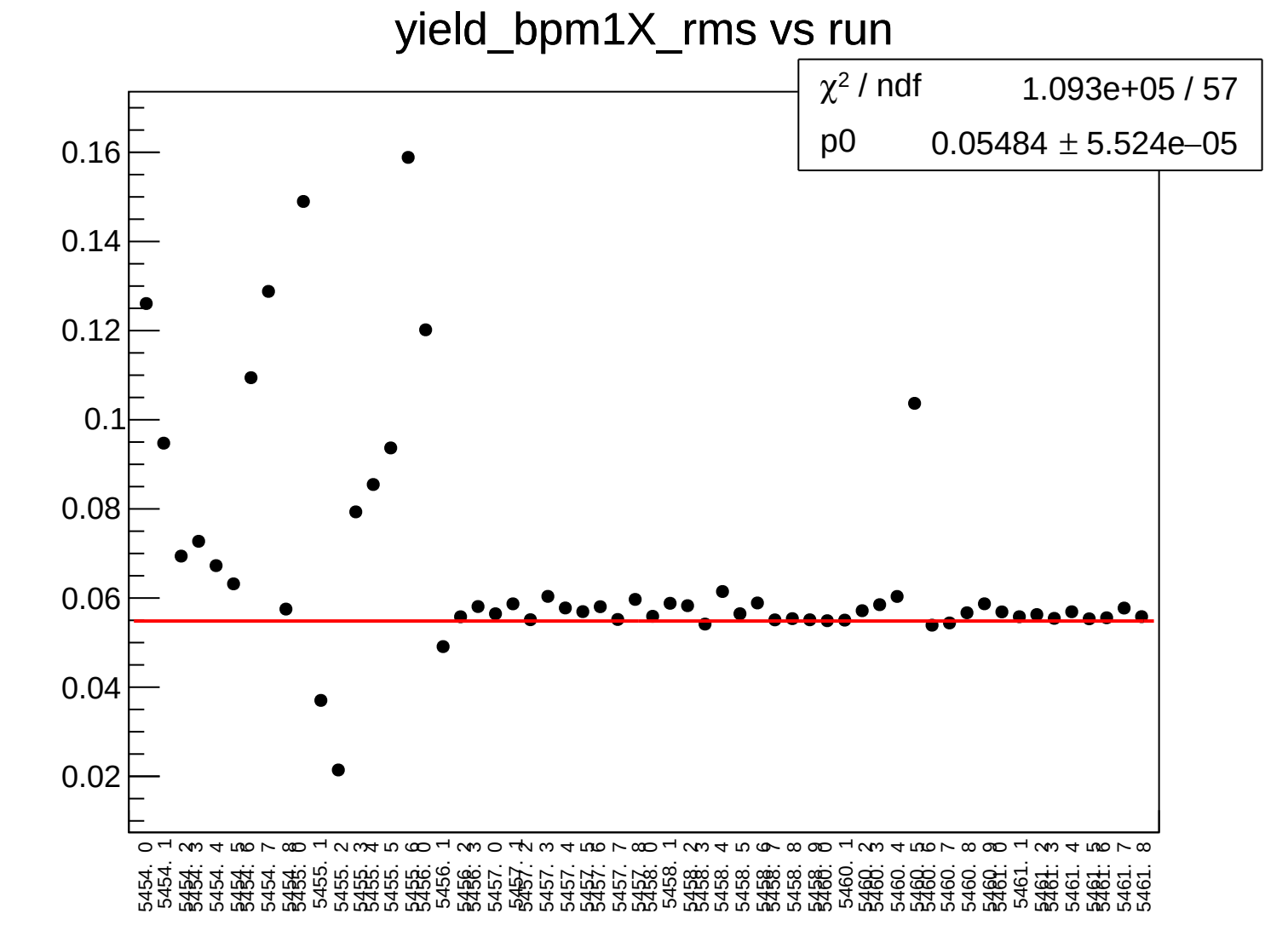

yield_bpm4ecY_mean vs run
χ² / ndf 2.455e+05 / 57
p0 0.9232 ± 2.307e−05
pull
Entries 58
Mean −158
Std Dev 169

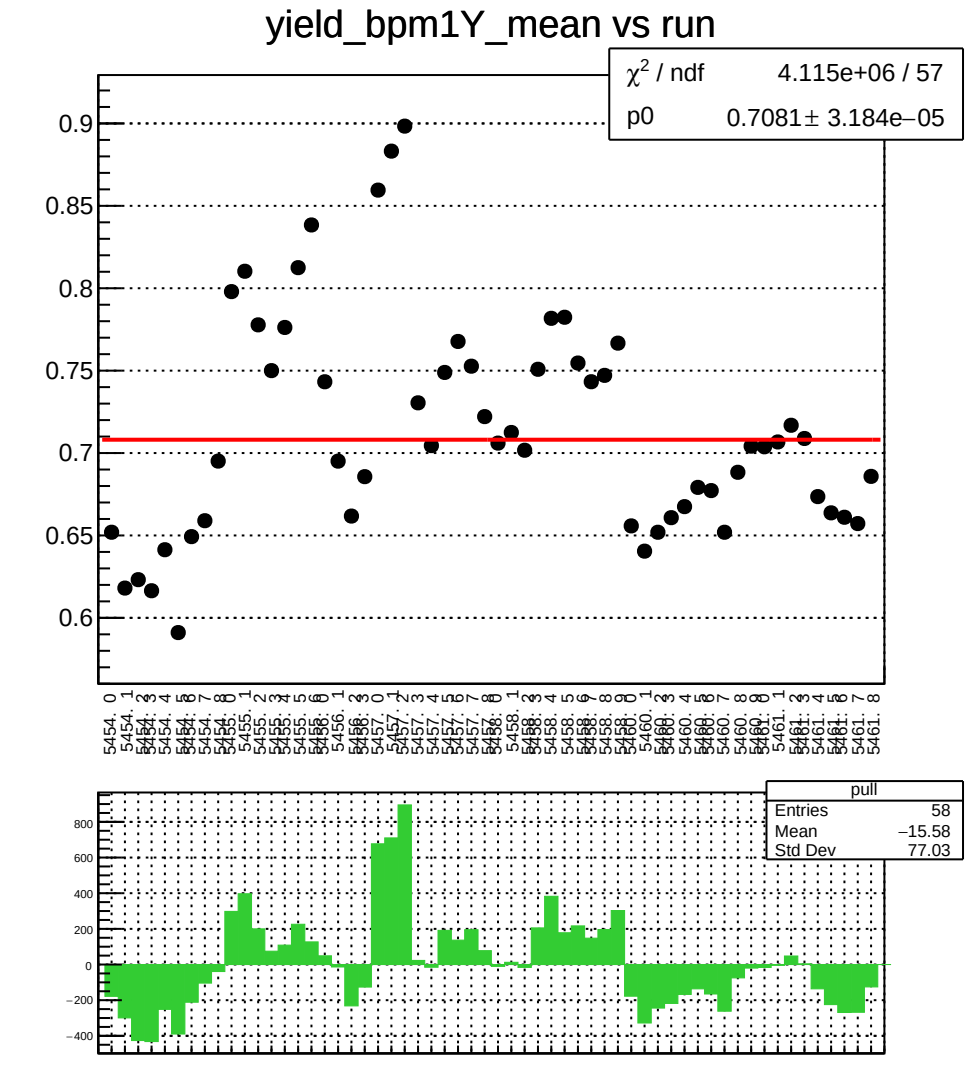

pull1D
Entries 58
Mean 2.102
Std Dev 3.069

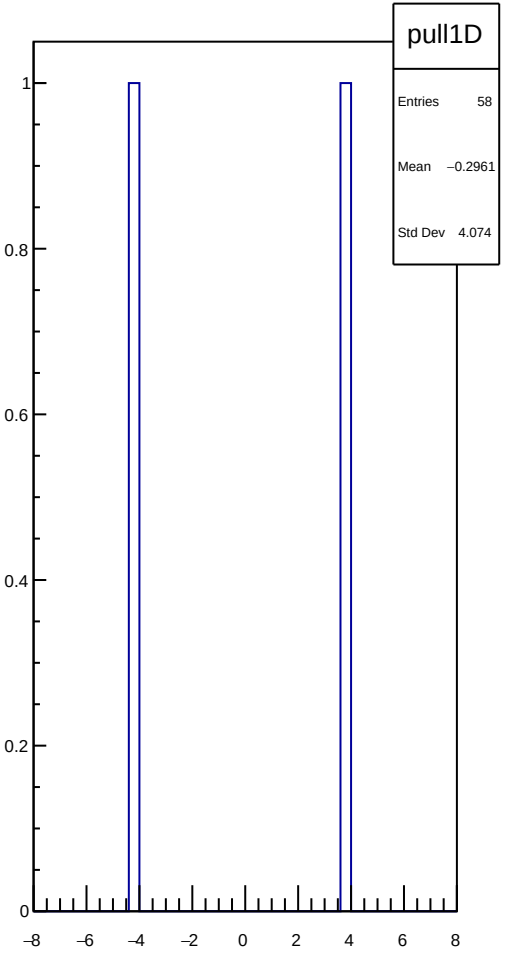

yield_bpm4ecY_rms vs run
χ² / ndf 7.313e+04 / 57
p0 0.01649 ± 1.631e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

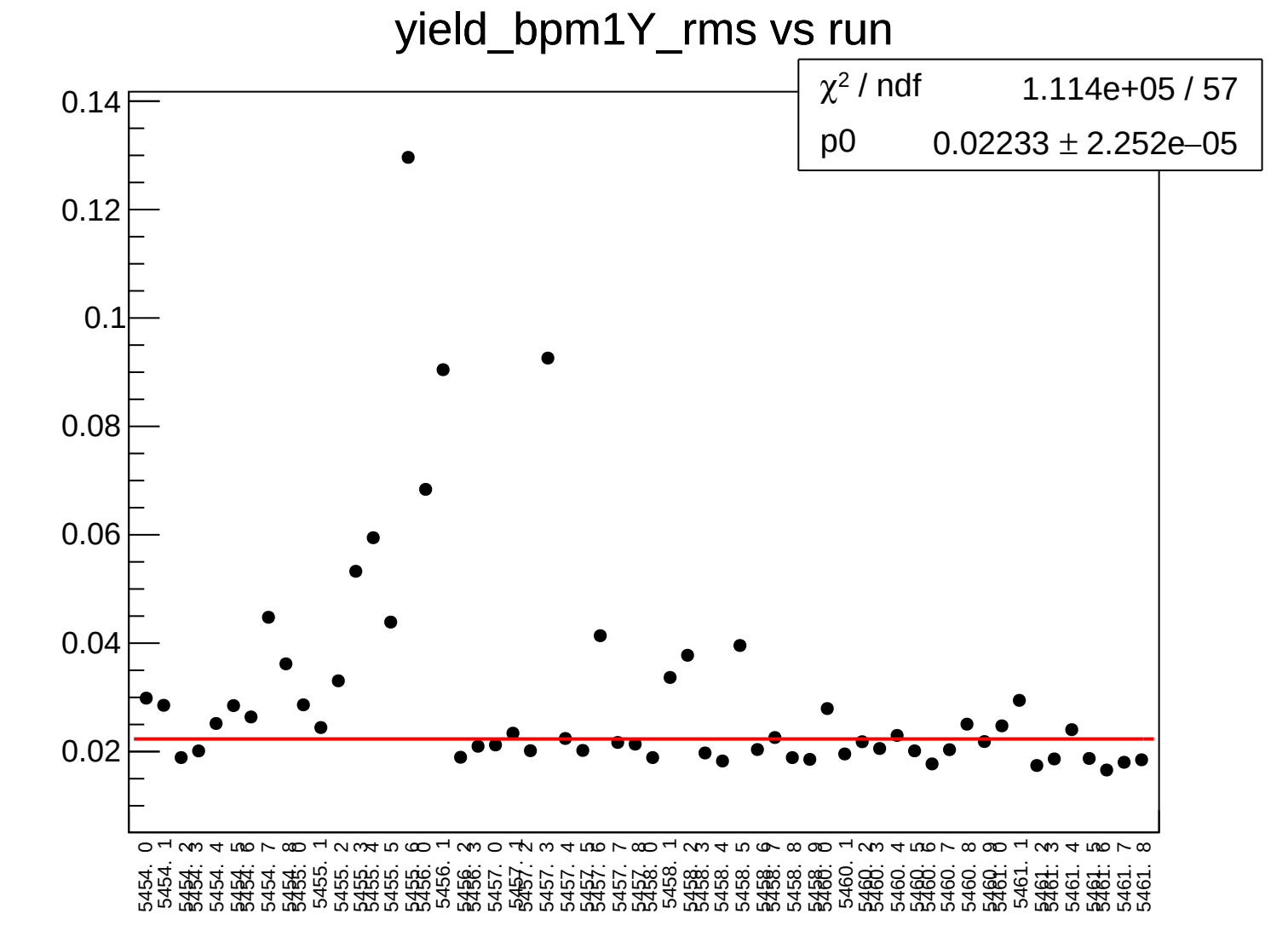

yield_bpm1X_mean vs run
χ² / ndf 5.676e+06 / 57
p0 0.4231± 7.812e−05
pull
Entries 58
Mean 1264
Std Dev 1229

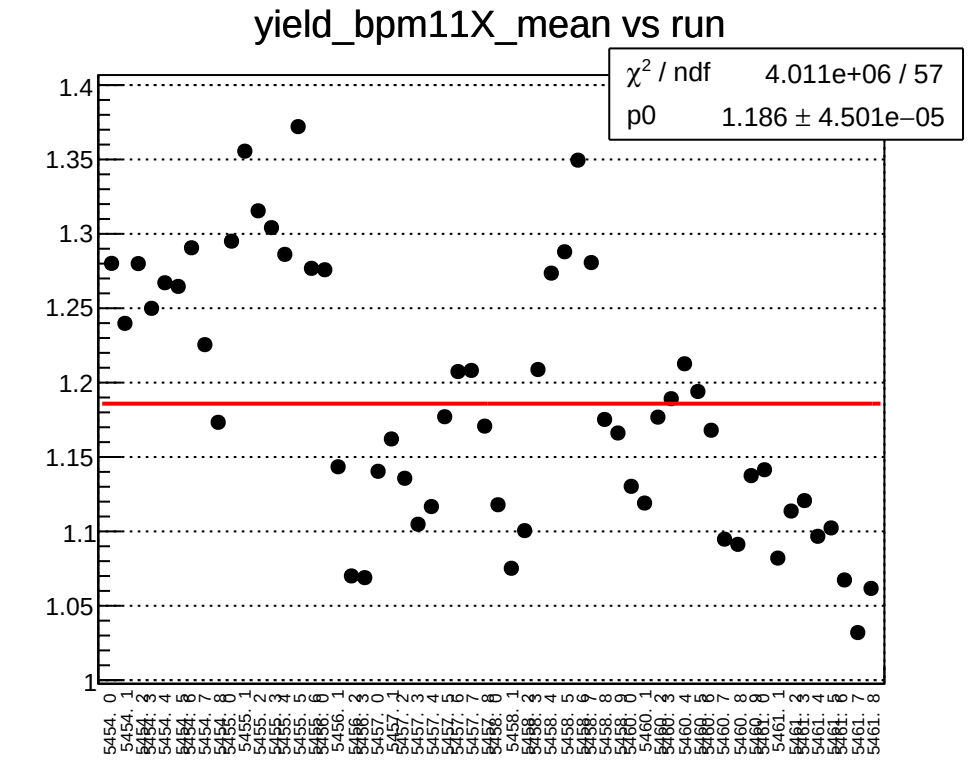

pull1D
Entries 58
Mean 0
Std Dev 0

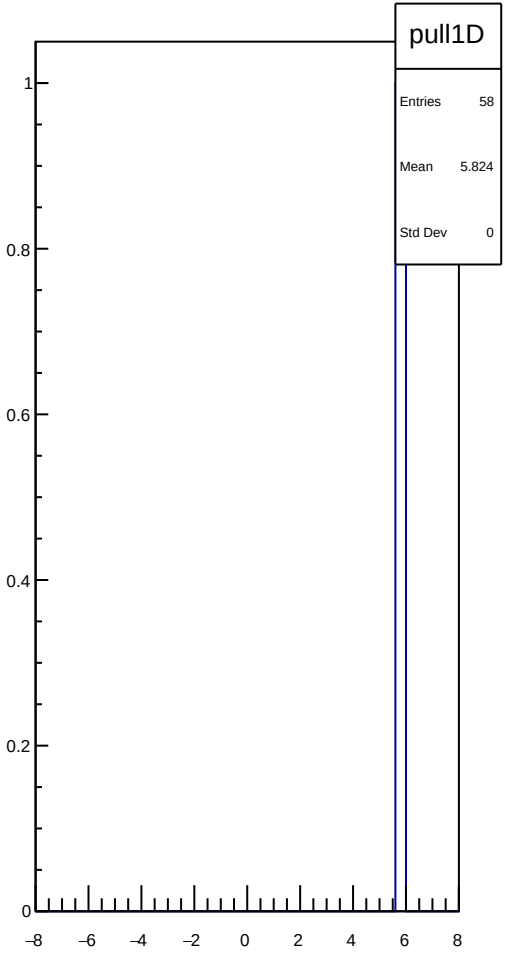

yield_bpm1X_rms vs run
χ² / ndf 1.093e+05 / 57
p0 0.05484 ± 5.524e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

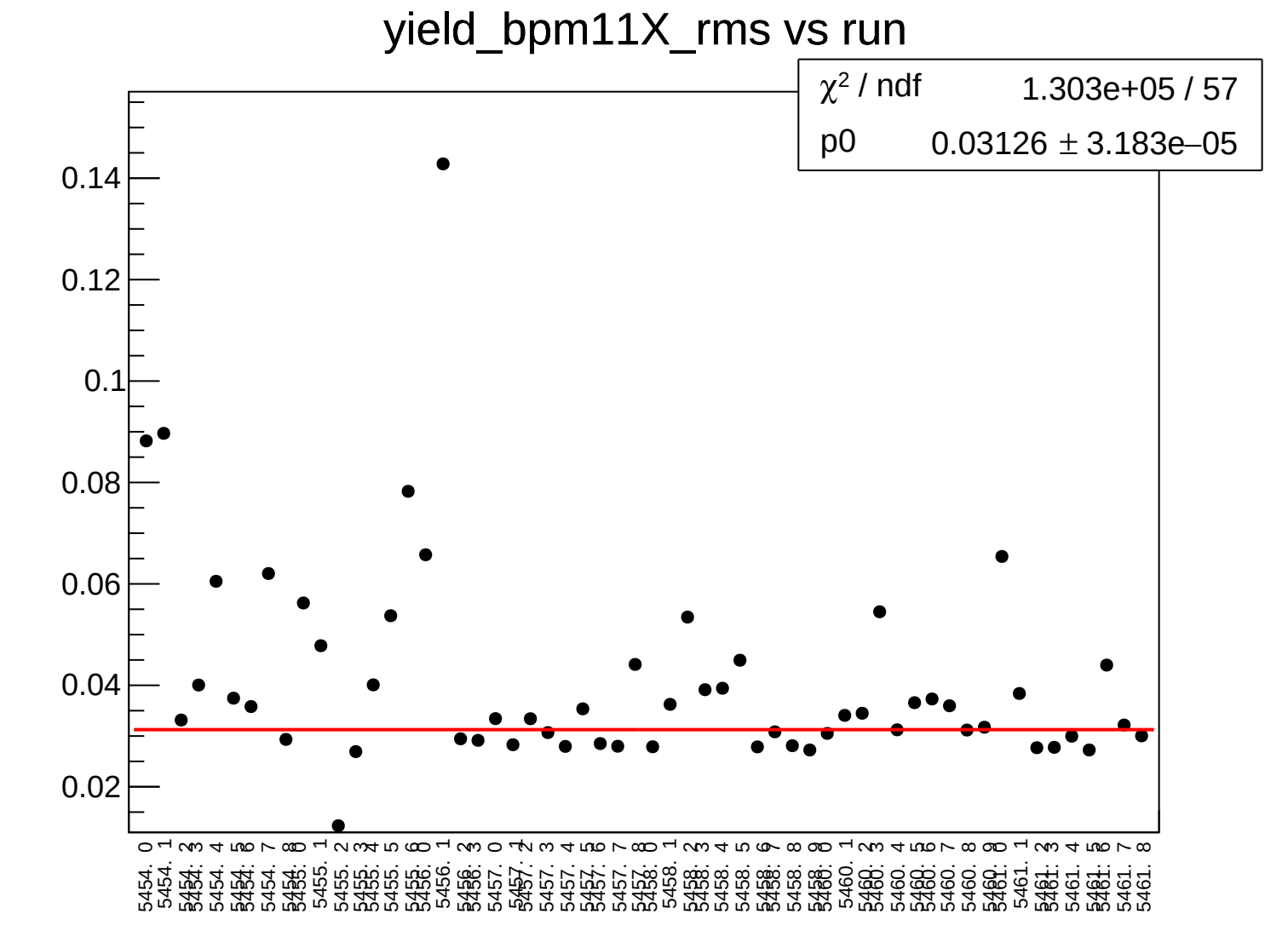

yield_bpm1Y_mean vs run
χ² / ndf 4.115e+06 / 57
p0 0.7081 ± 3.184e−05
0.9
0.85
0.8
0.75
0.7
0.65
0.6
pull
Entries 58
Mean −15.58
Std Dev 77.03
800
600
400
200
0
−200
−400

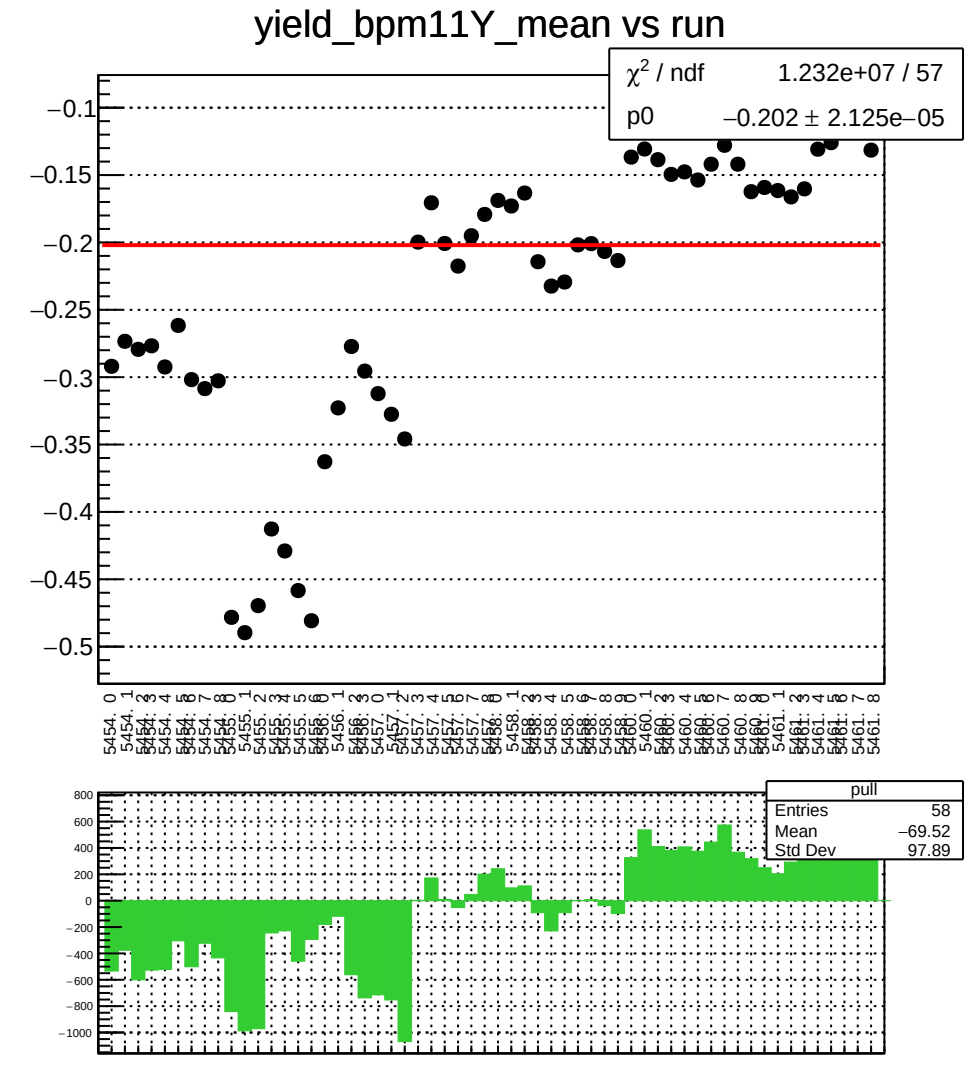

pull1D
Entries 58
Mean −0.2961
Std Dev 4.074
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

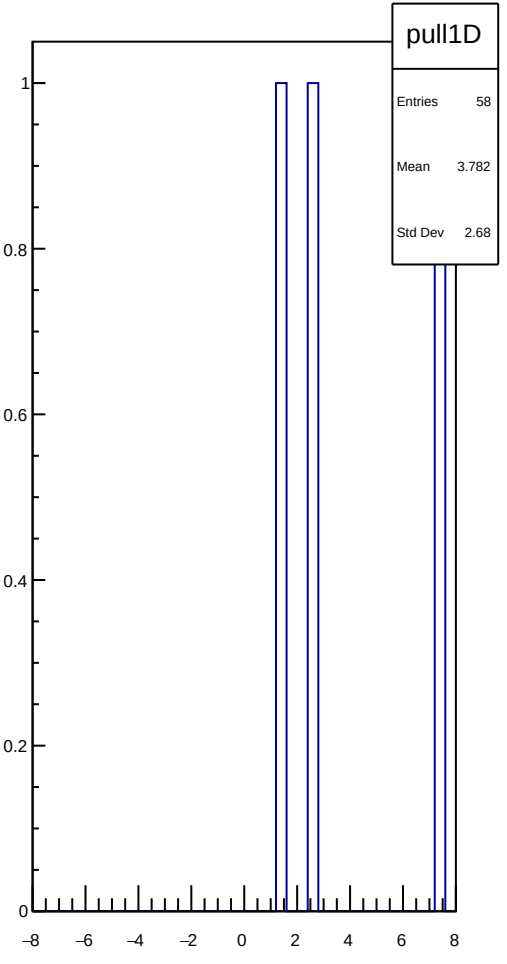

yield_bpm1Y_rms vs run
χ² / ndf 1.114e+05 / 57
p0 0.02233 ± 2.252e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

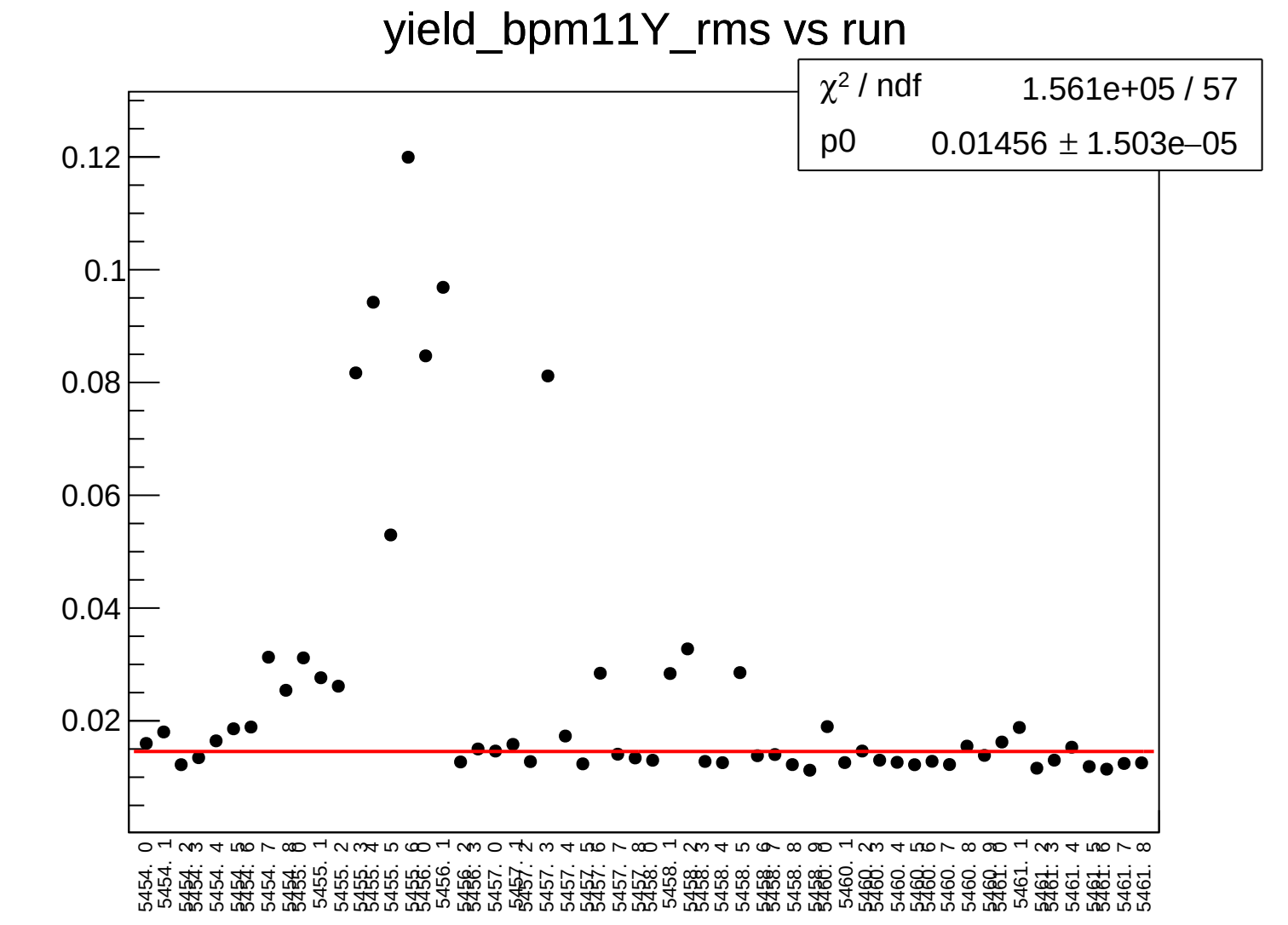

yield_bpm11X_mean vs run
χ² / ndf 4.011e+06 / 57
p0 1.186 ± 4.501e−05
pull
Entries 58
Mean 248.7
Std Dev 218

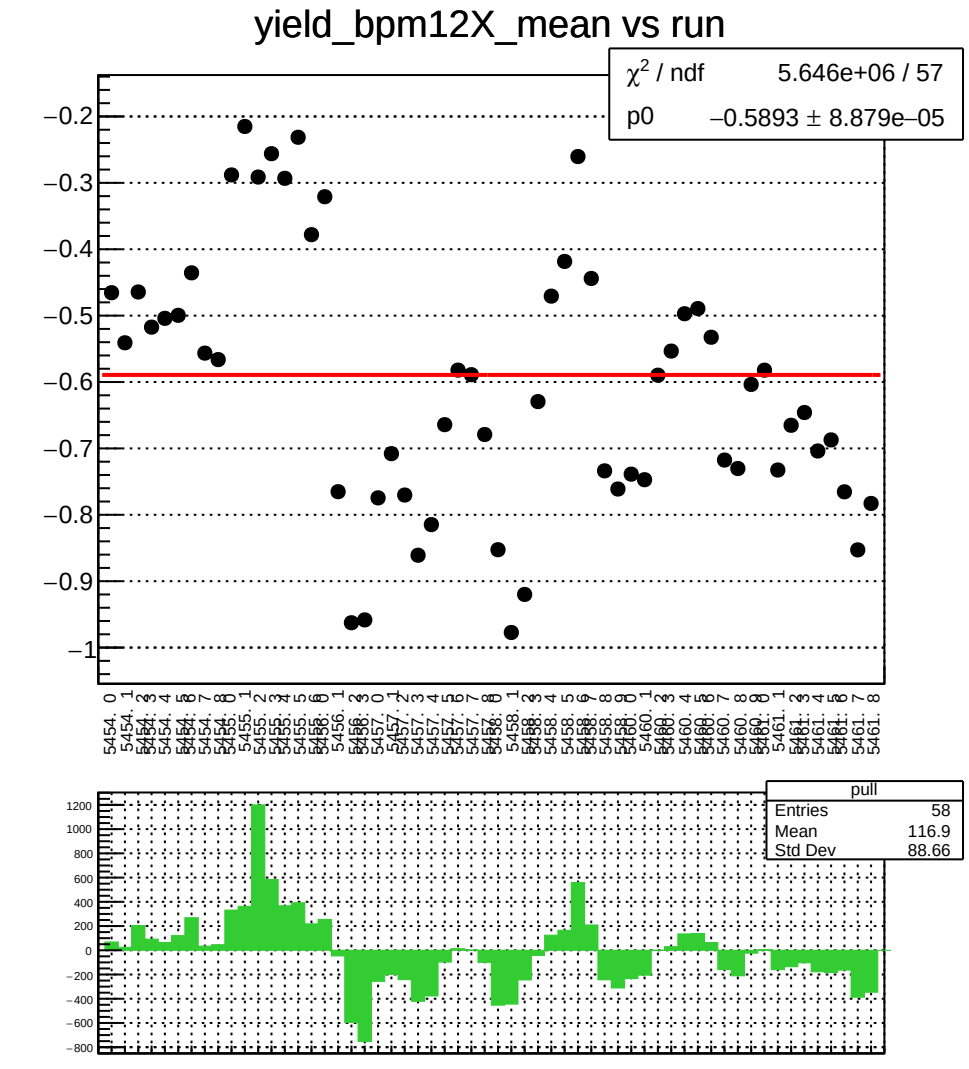

pull1D
Entries 58
Mean 5.824
Std Dev 0

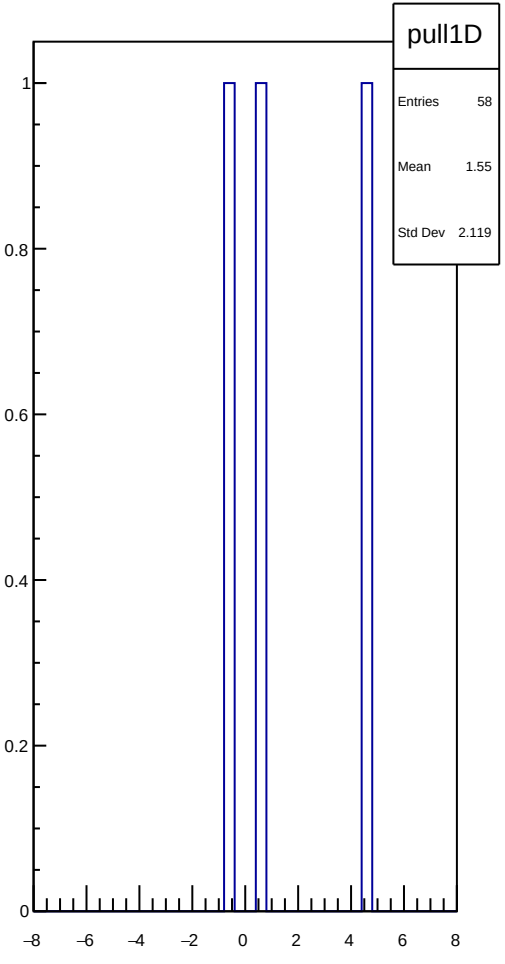

yield_bpm11X_rms vs run
χ² / ndf 1.303e+05 / 57
p0 0.03126 ± 3.183e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

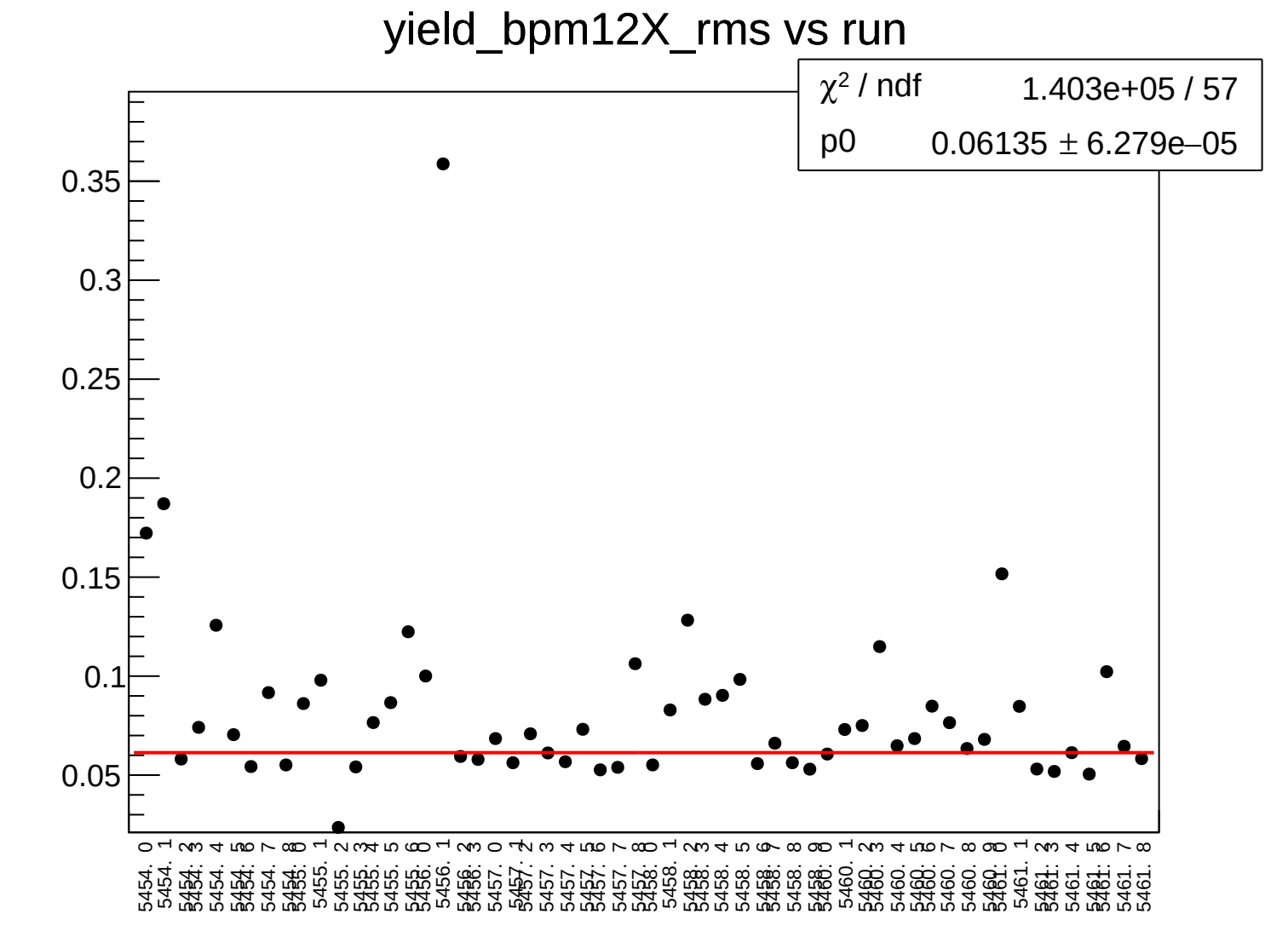

yield_bpm11Y_mean vs run
χ² / ndf 1.232e+07 / 57
p0 −0.202 ± 2.125e−05
pull
Entries 58
Mean −69.52
Std Dev 97.89

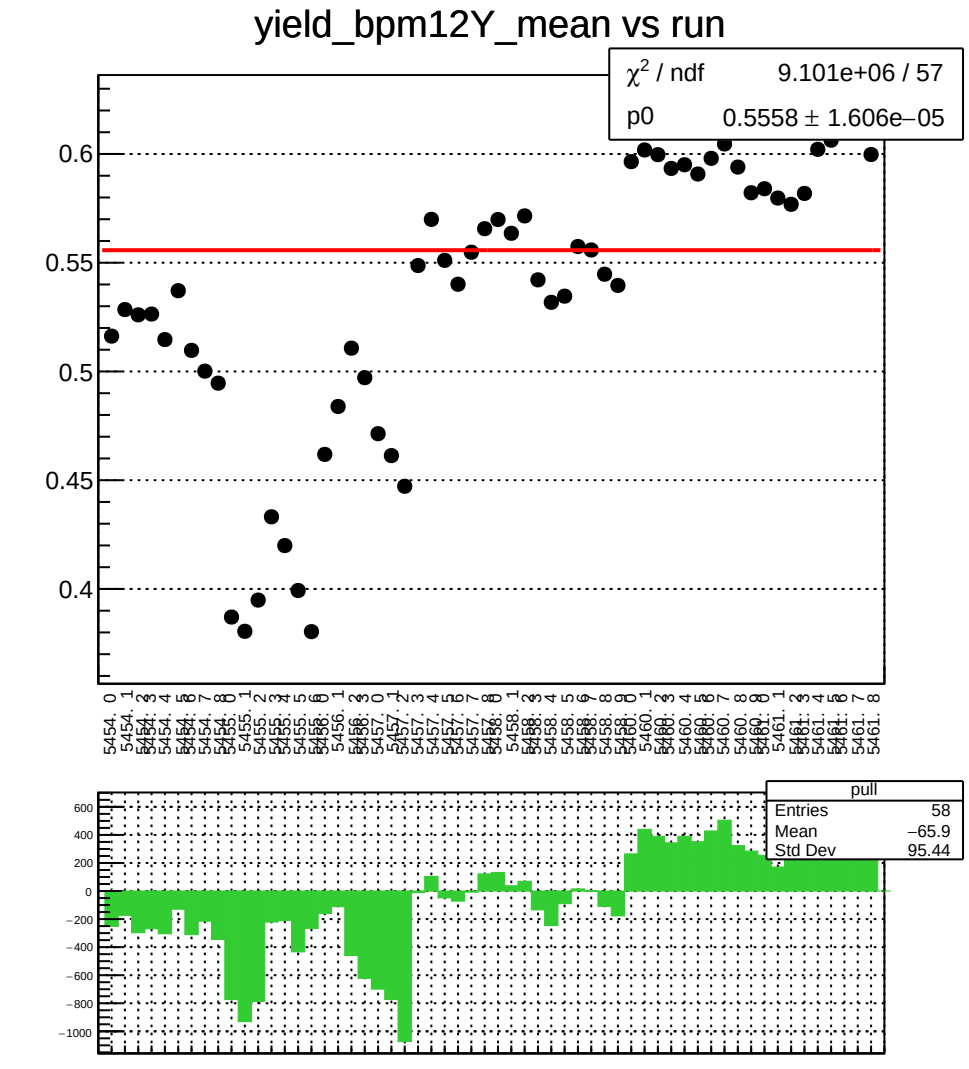

pull1D
Entries 58
Mean 3.782
Std Dev 2.68

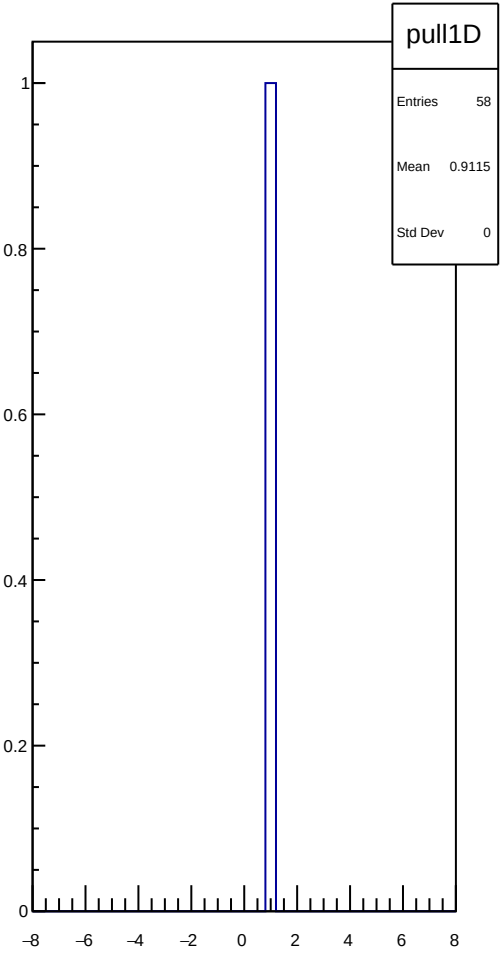

yield_bpm11Y_rms vs run
χ² / ndf 1.561e+05 / 57
p0 0.01456 ± 1.503e–05
0.12
0.1
0.08
0.06
0.04
0.02

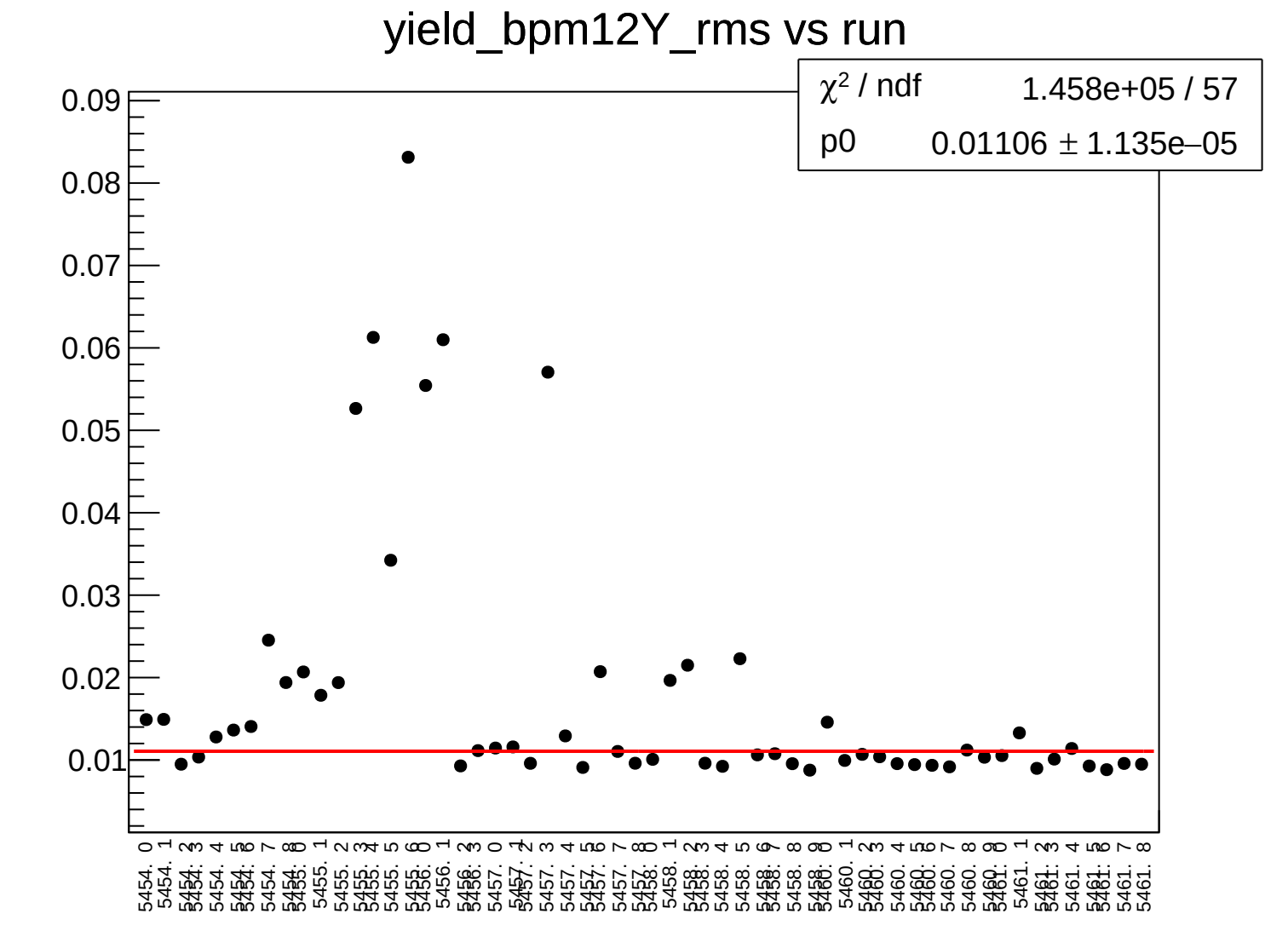

yield_bpm12X_mean vs run
χ² / ndf 5.646e+06 / 57
p0 −0.5893 ± 8.879e−05
pull
Entries 58
Mean 116.9
Std Dev 88.66

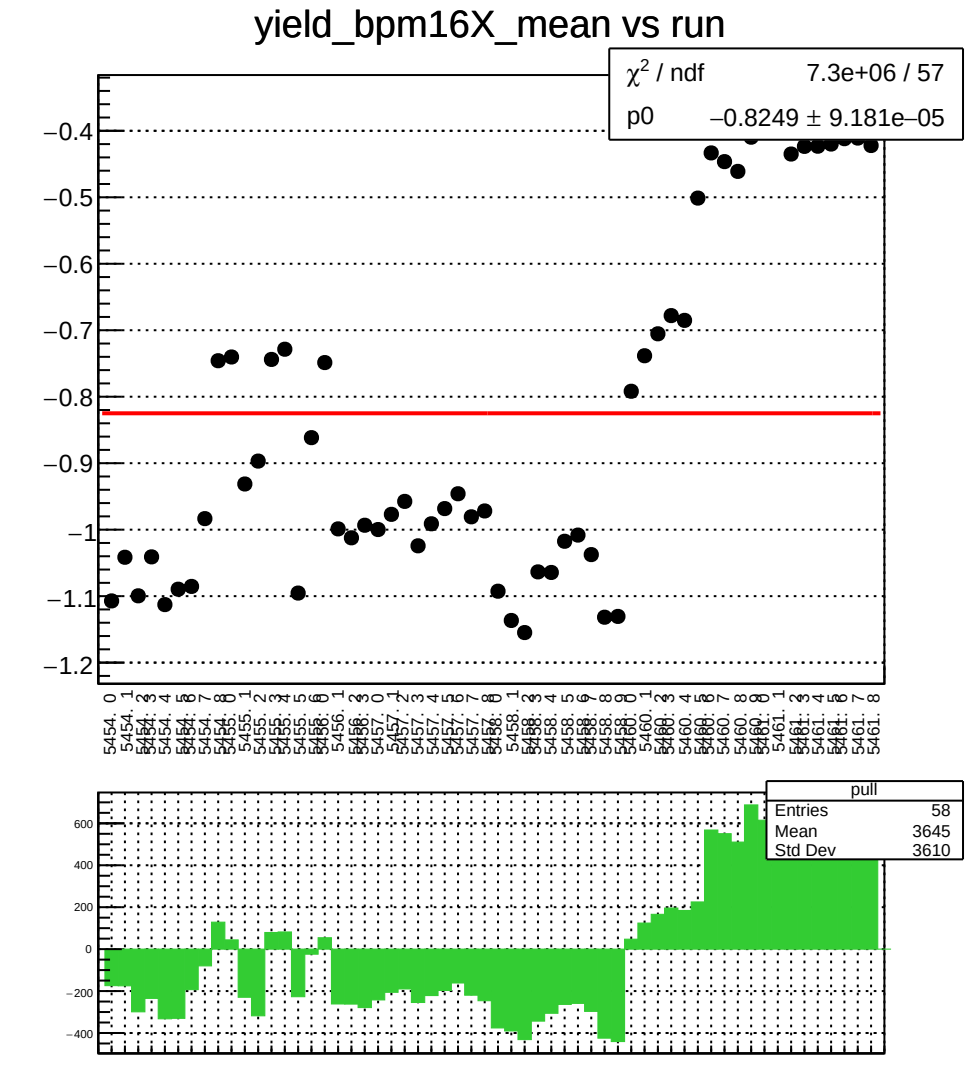

pull1D
Entries 58
Mean 1.55
Std Dev 2.119

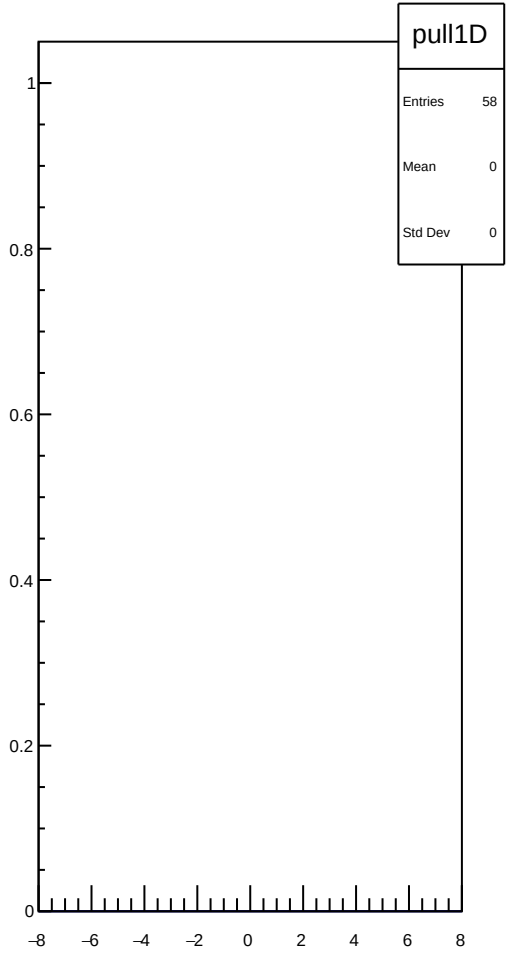

yield_bpm12X_rms vs run
χ² / ndf 1.403e+05 / 57
p0 0.06135 ± 6.279e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

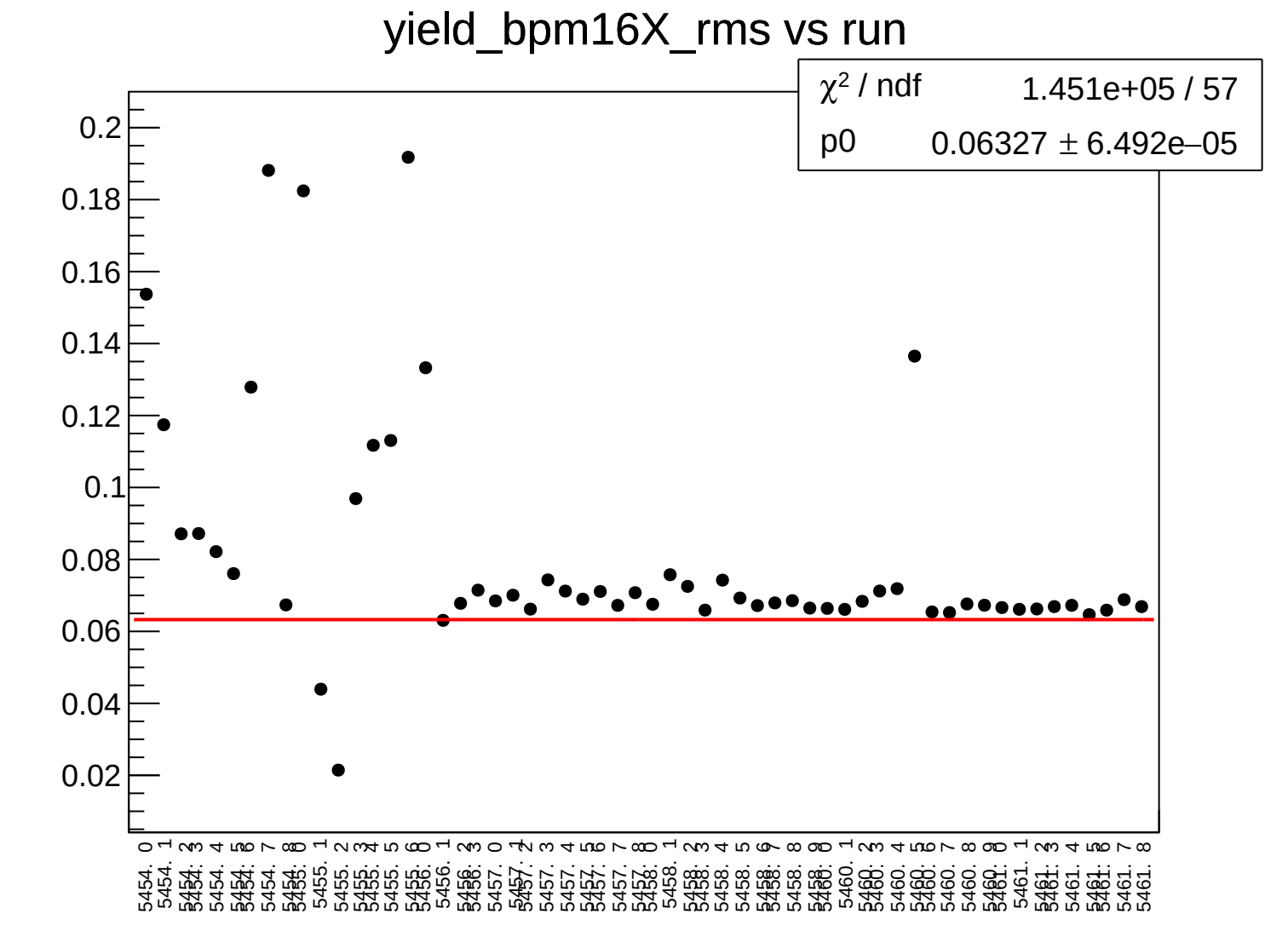

yield_bpm12Y_mean vs run
χ² / ndf 9.101e+06 / 57
p0 0.5558 ± 1.606e−05
pull
Entries 58
Mean −65.9
Std Dev 95.44

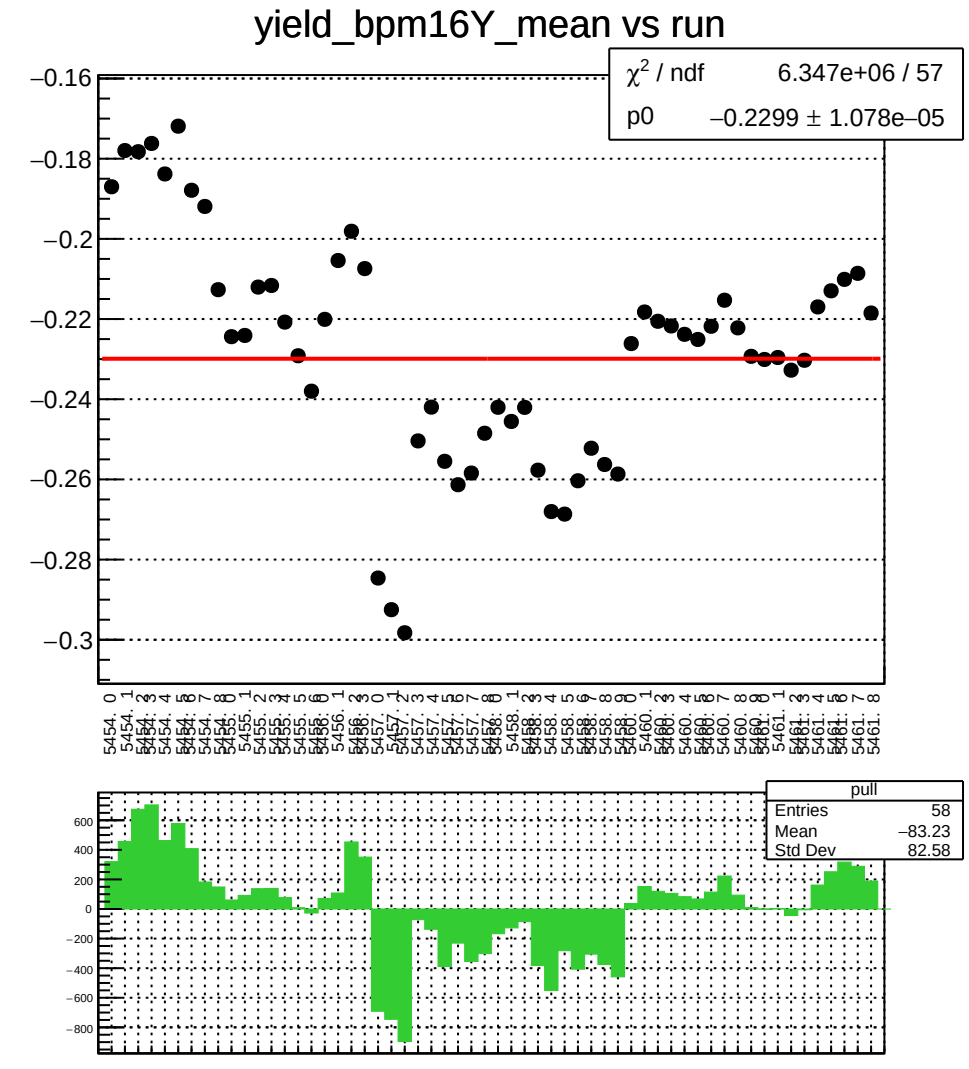

pull1D
Entries 58
Mean 0.9115
Std Dev 0

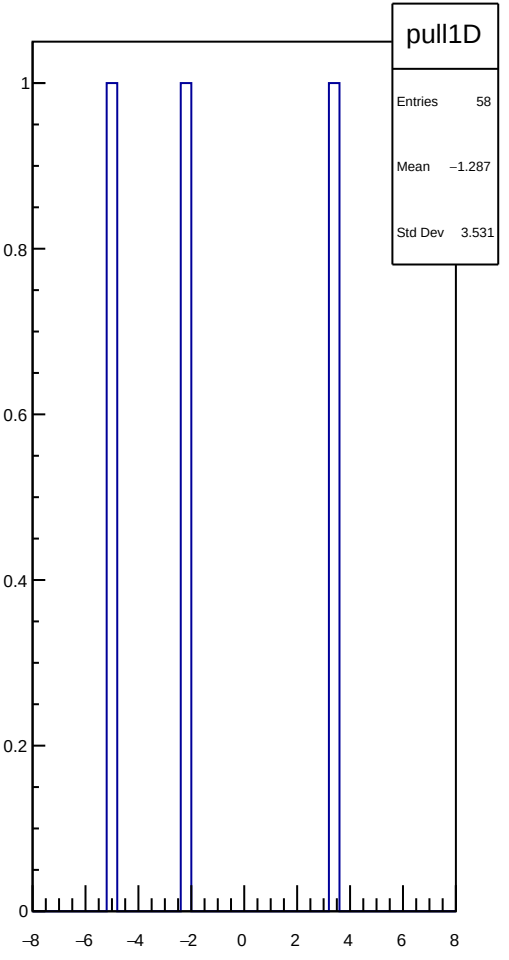

yield_bpm12Y_rms vs run
χ² / ndf 1.458e+05 / 57
p0 0.01106 ± 1.135e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

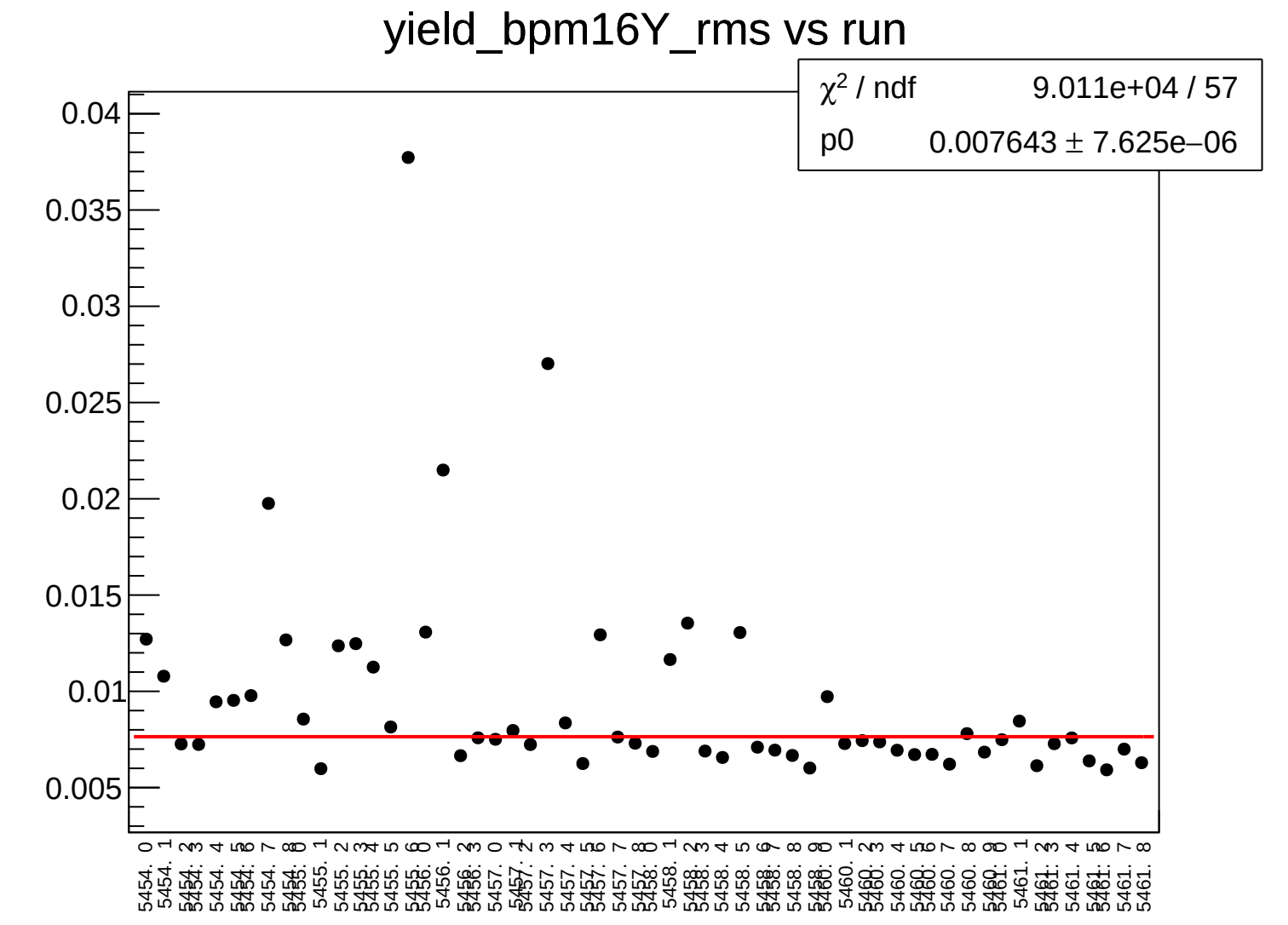

yield_bpm16X_mean vs run
χ² / ndf 7.3e+06 / 57
p0 −0.8249 ± 9.181e−05
pull
Entries 58
Mean 3645
Std Dev 3610

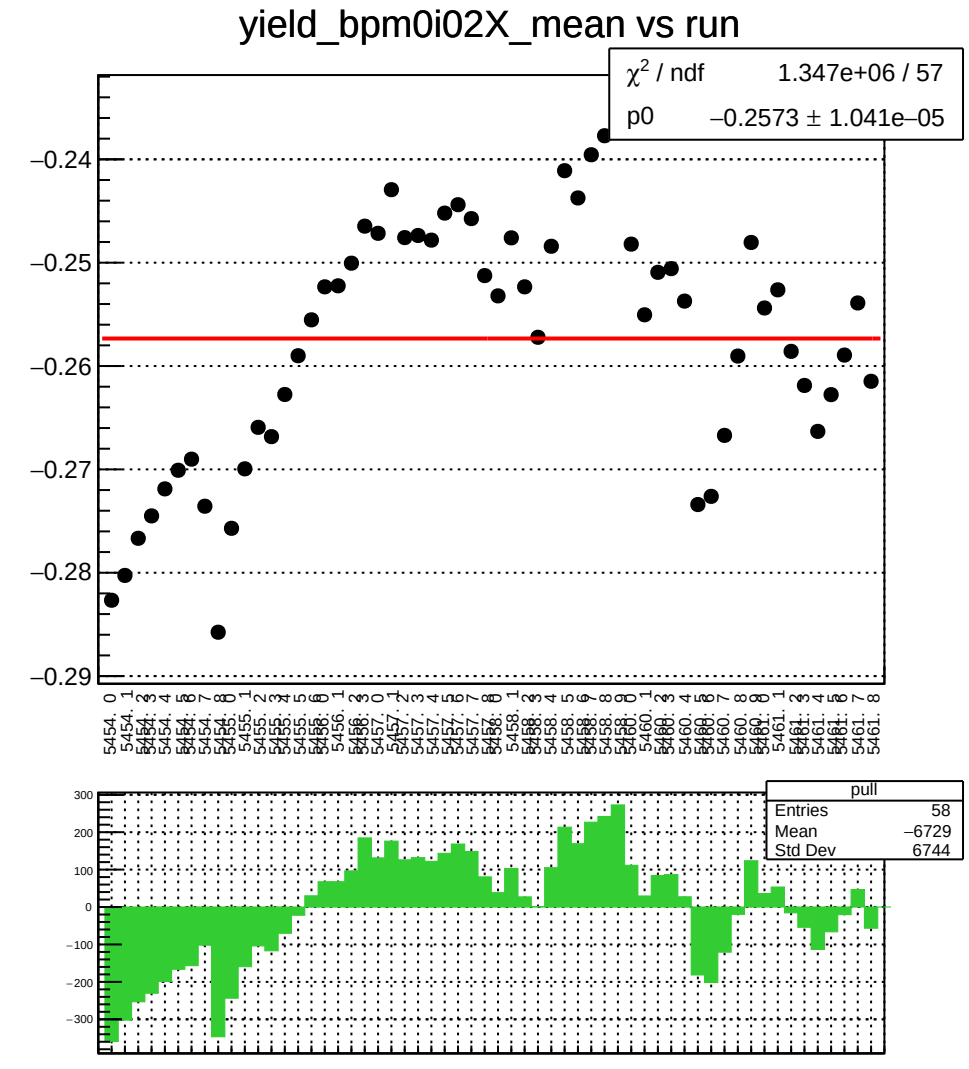

pull1D
Entries 58
Mean 0
Std Dev 0

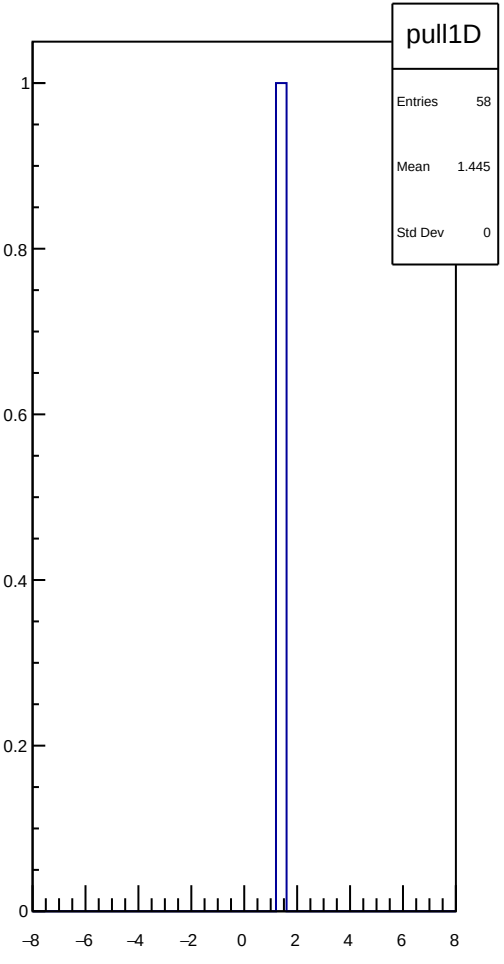

yield_bpm16X_rms vs run
χ² / ndf 1.451e+05 / 57
p0 0.06327 ± 6.492e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

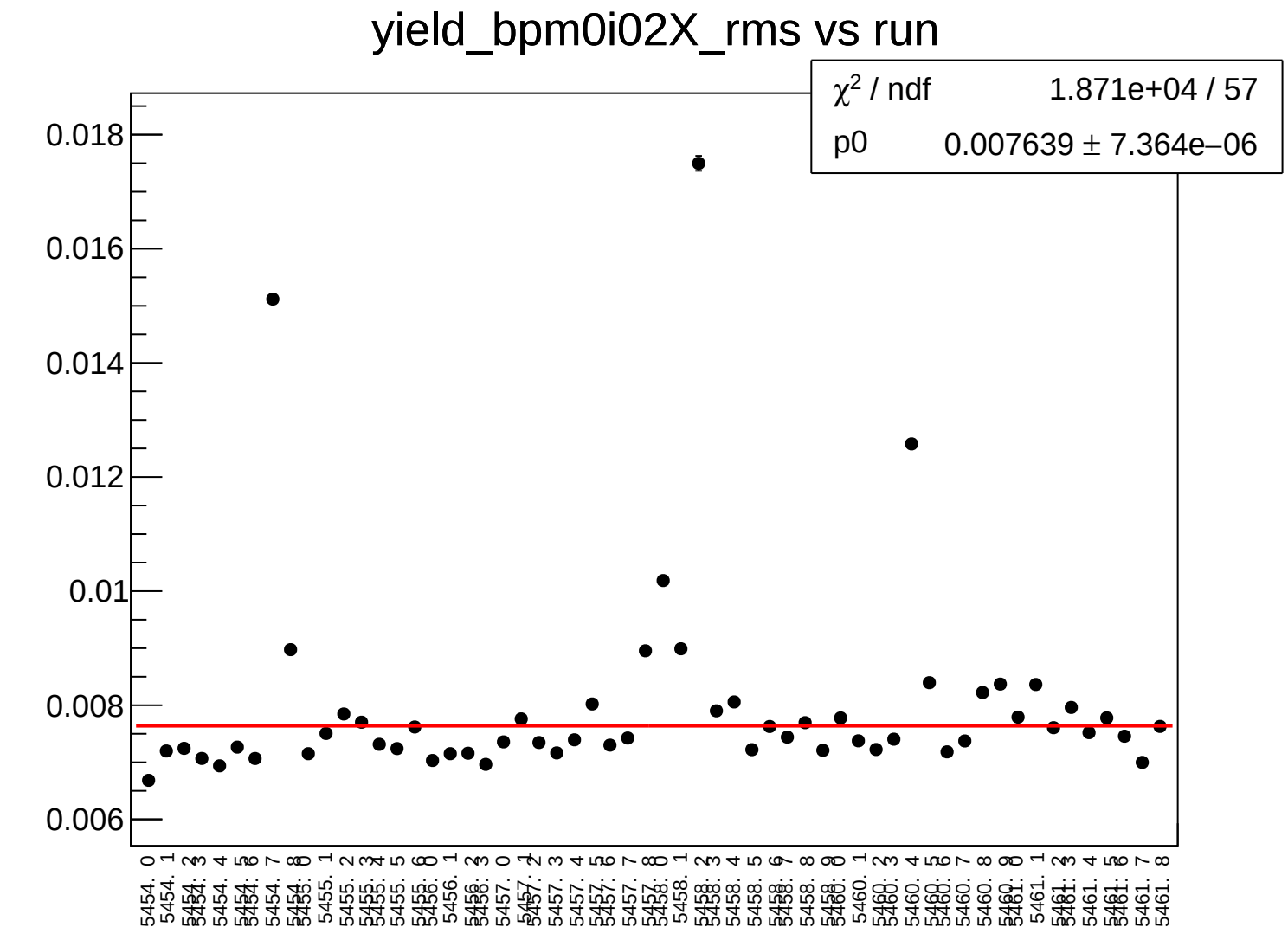

yield_bpm16Y_mean vs run
χ² / ndf 6.347e+06 / 57
p0 −0.2299 ± 1.078e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
pull
Entries 58
Mean −83.23
Std Dev 82.58
600
400
200
0
−200
−400
−600
−800

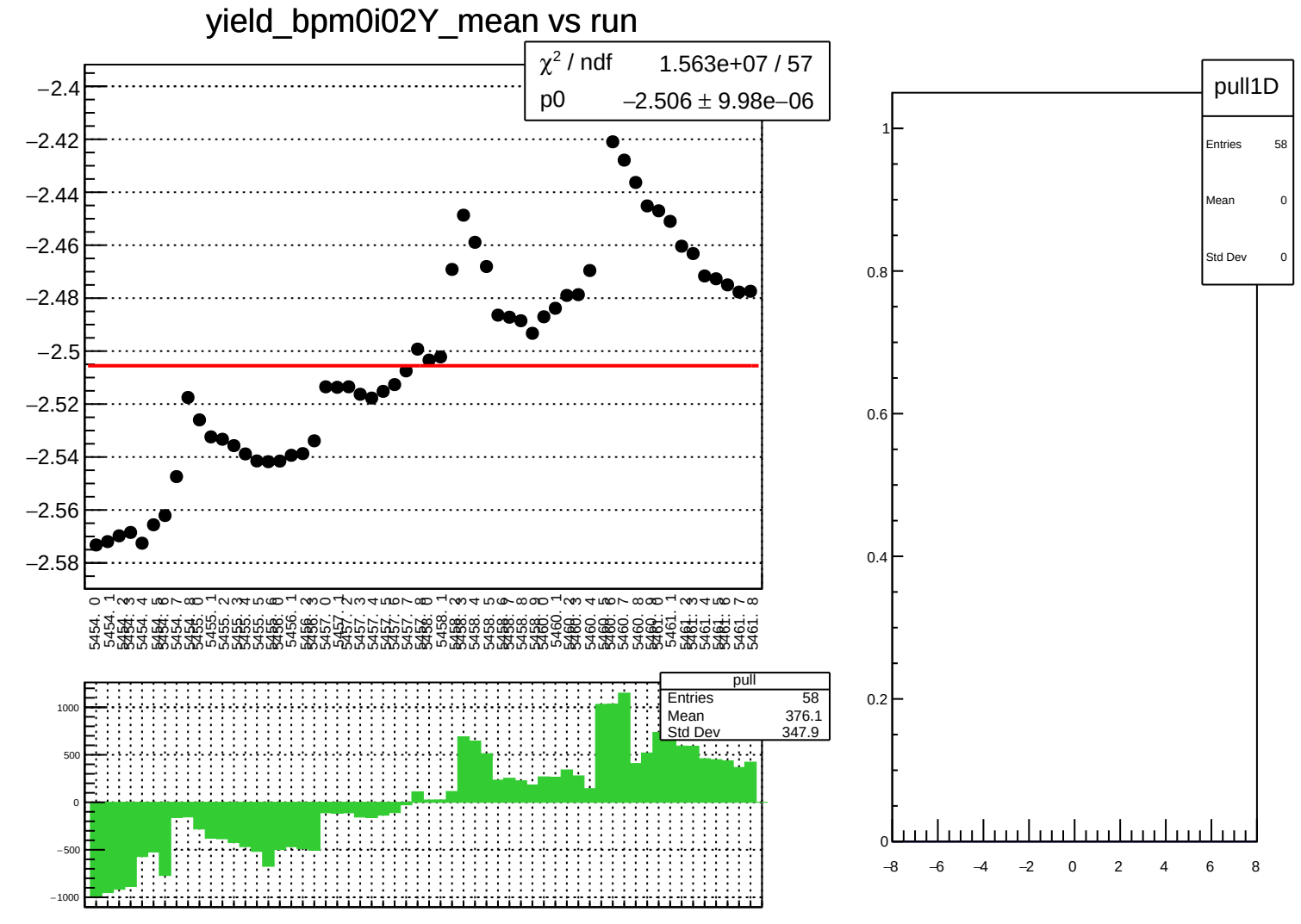

pull1D
Entries 58
Mean −1.287
Std Dev 3.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

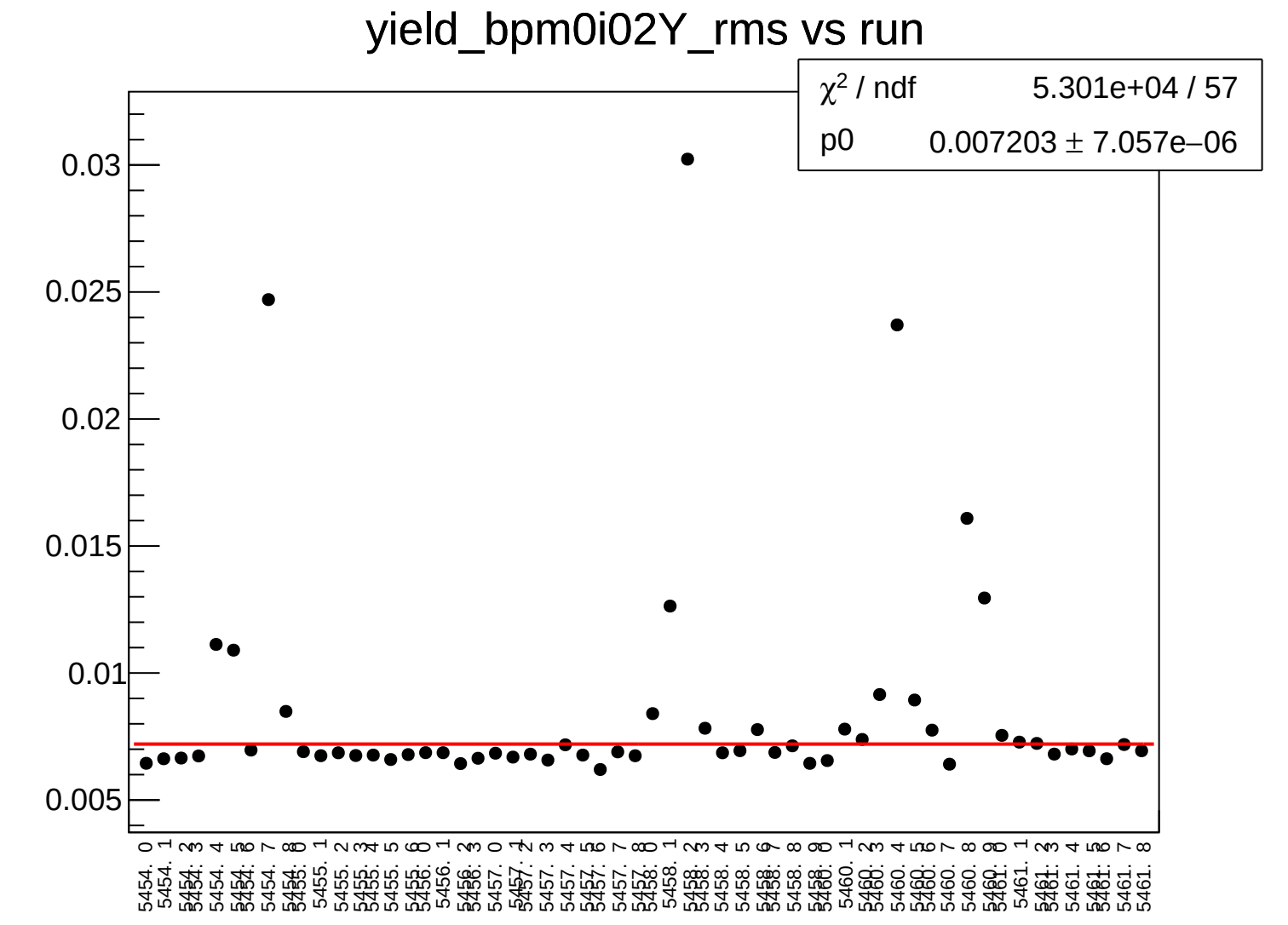

yield_bpm16Y_rms vs run
χ² / ndf 9.011e+04 / 57
p0 0.007643 ± 7.625e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

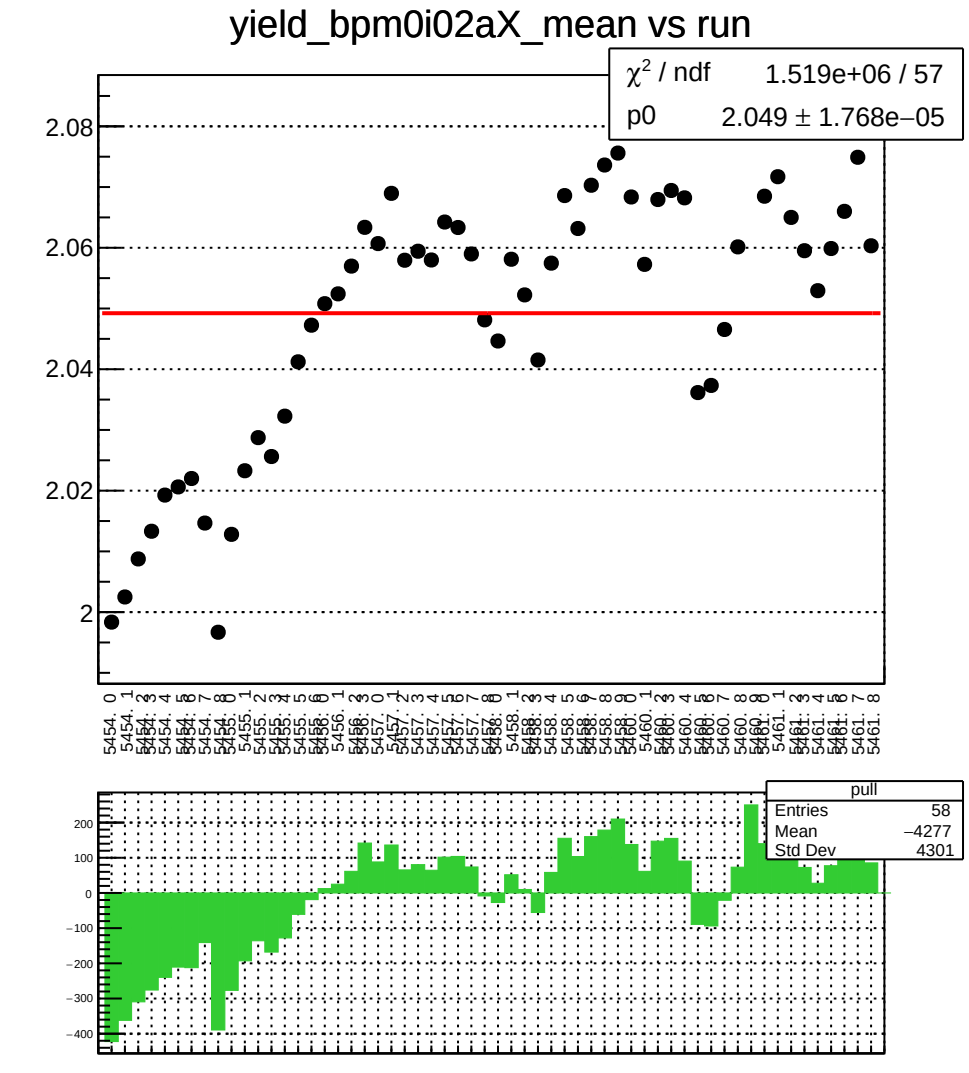

yield_bpm0i02X_mean vs run
χ² / ndf 1.347e+06 / 57
p0 −0.2573 ± 1.041e−05
−0.24
−0.25
−0.26
−0.27
−0.28
−0.29
pull
Entries 58
Mean −6729
Std Dev 6744
300
200
100
0
−100
−200
−300

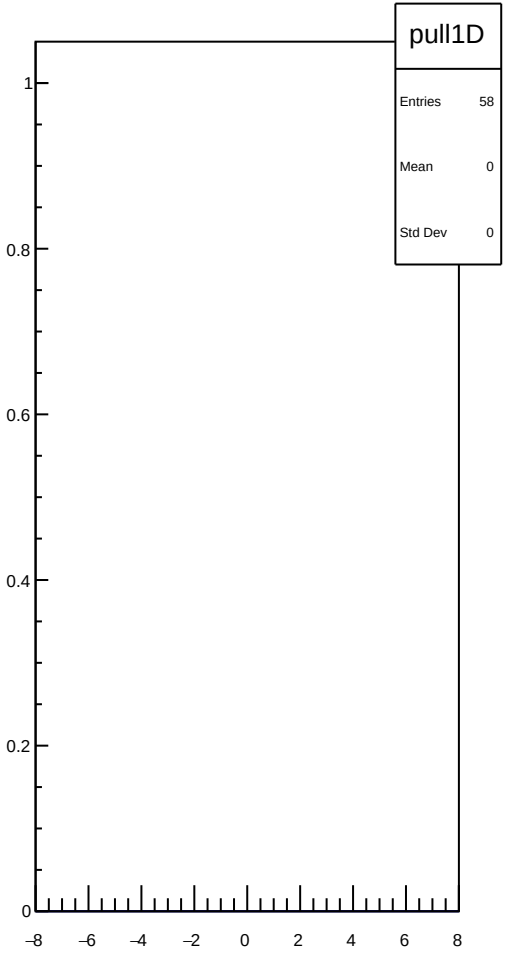

pull1D
Entries 58
Mean 1.445
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

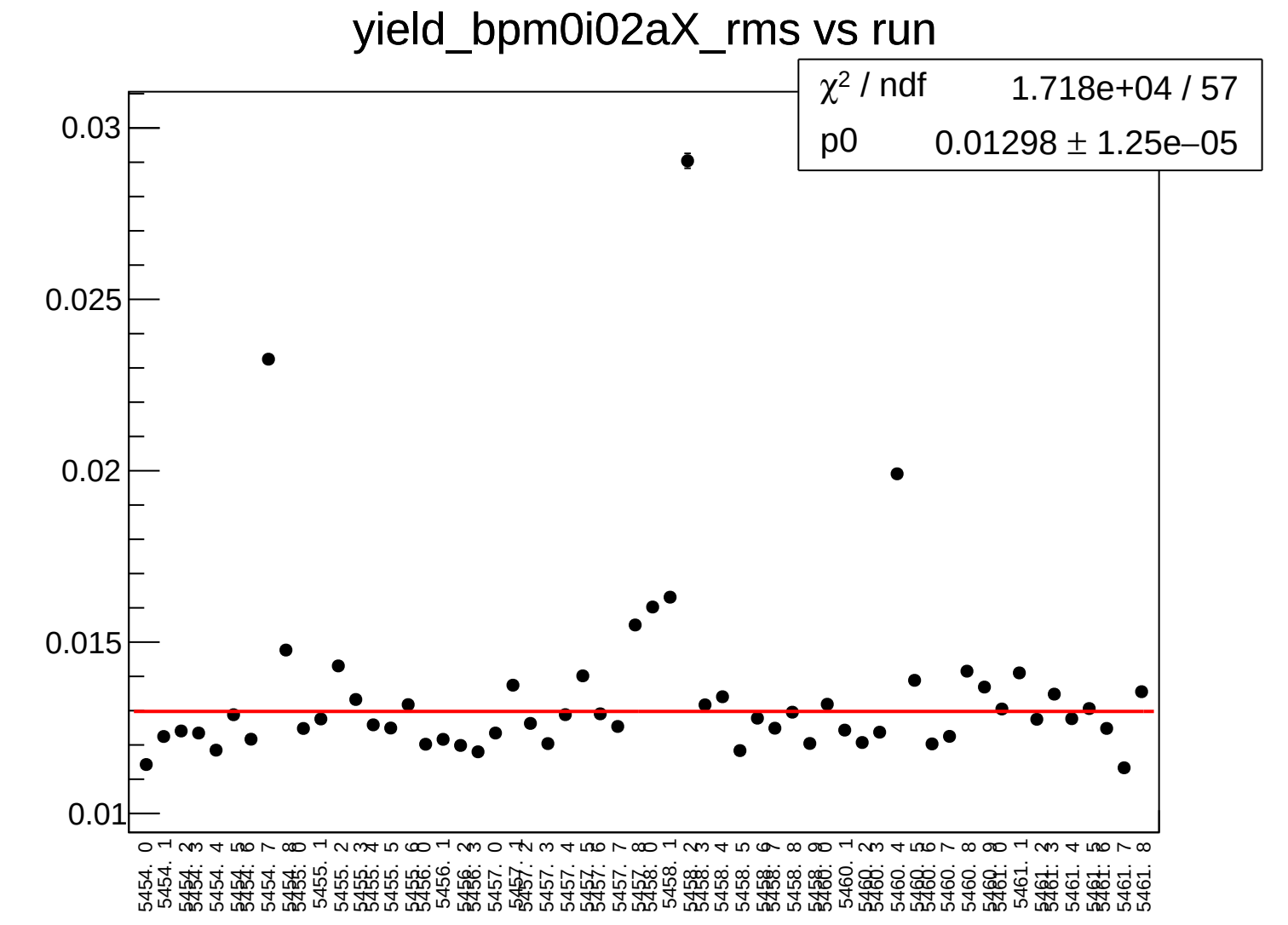

yield_bpm0i02X_rms vs run
χ² / ndf 1.871e+04 / 57
p0 0.007639 ± 7.364e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

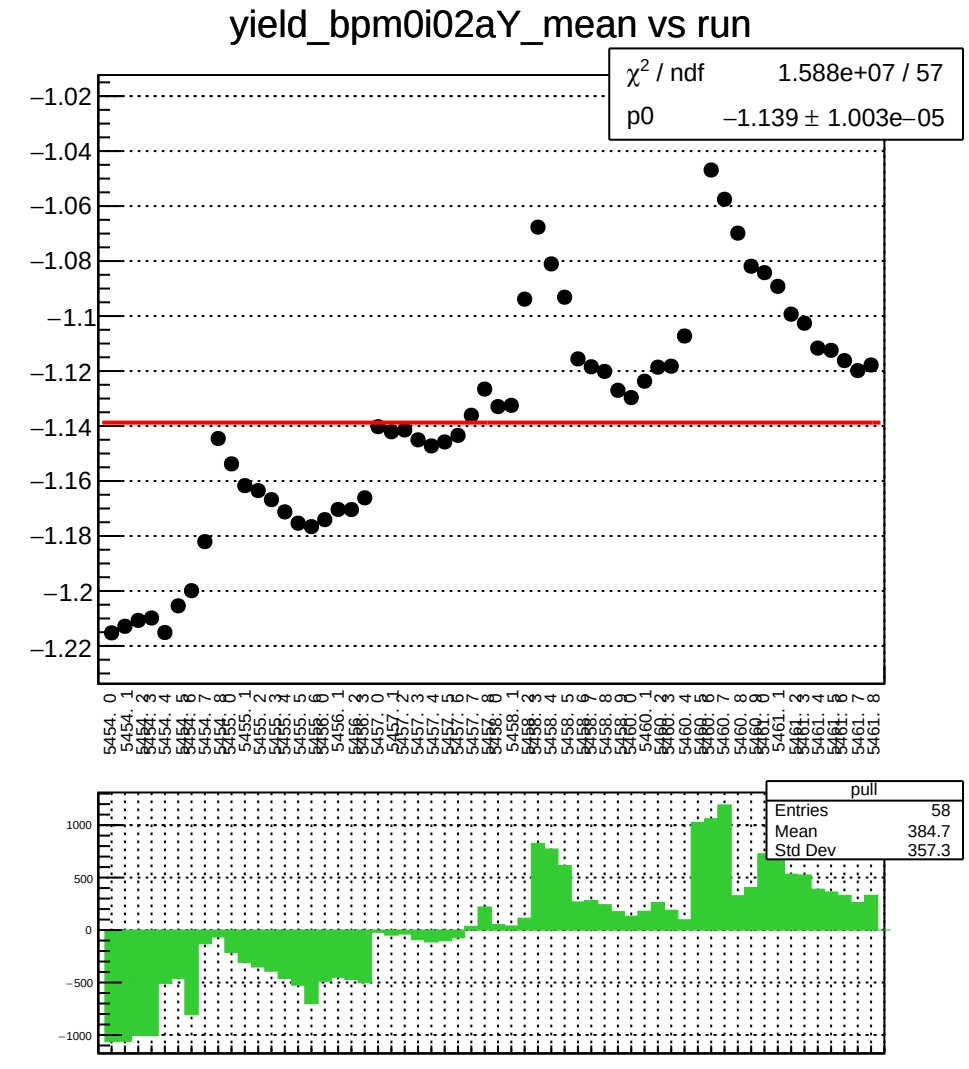

yield_bpm0i02Y_mean vs run
χ² / ndf 1.563e+07 / 57
p0 −2.506 ± 9.98e−06
−2.4
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
pull
Entries 58
Mean 376.1
Std Dev 347.9
1000
500
0
−500
−1000
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

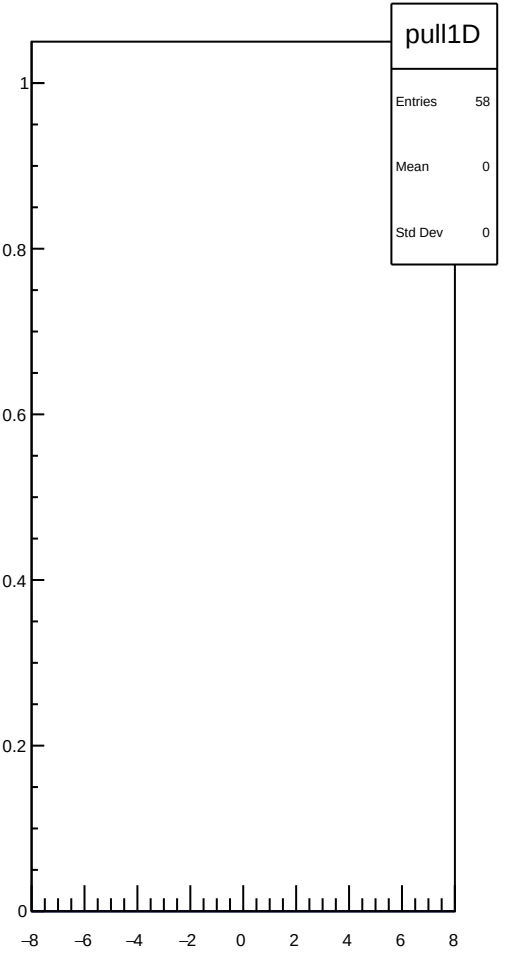

yield_bpm0i02Y_rms vs run
χ² / ndf 5.301e+04 / 57
p0 0.007203 ± 7.057e−06
0.03
0.025
0.02
0.015
0.01
0.005

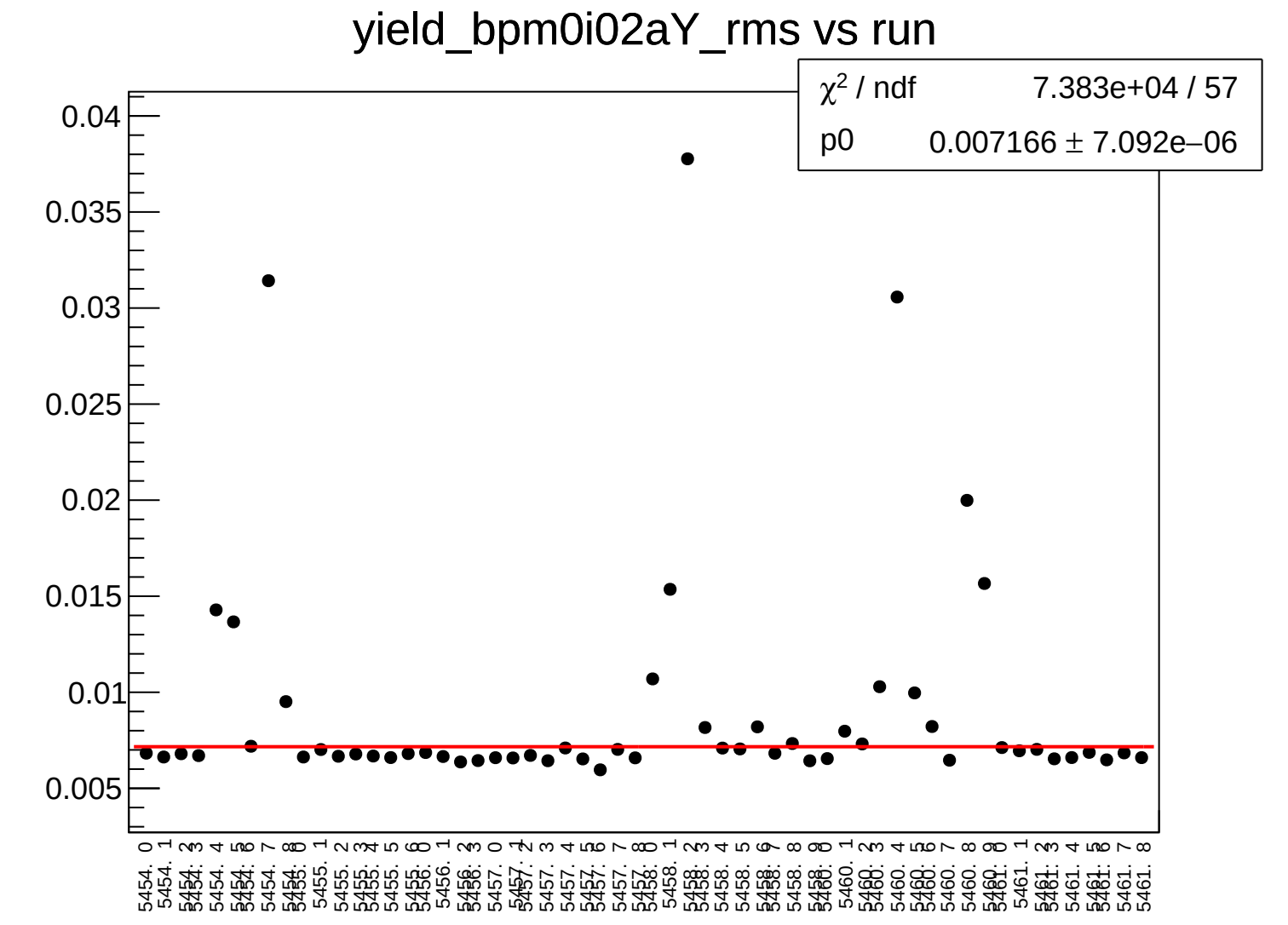

yield_bpm0i02aX_mean vs run
χ² / ndf 1.519e+06 / 57
p0 2.049 ± 1.768e−05
2.08
2.06
2.04
2.02
2
pull
Entries 58
Mean −4277
Std Dev 4301
200
100
0
−100
−200
−300
−400

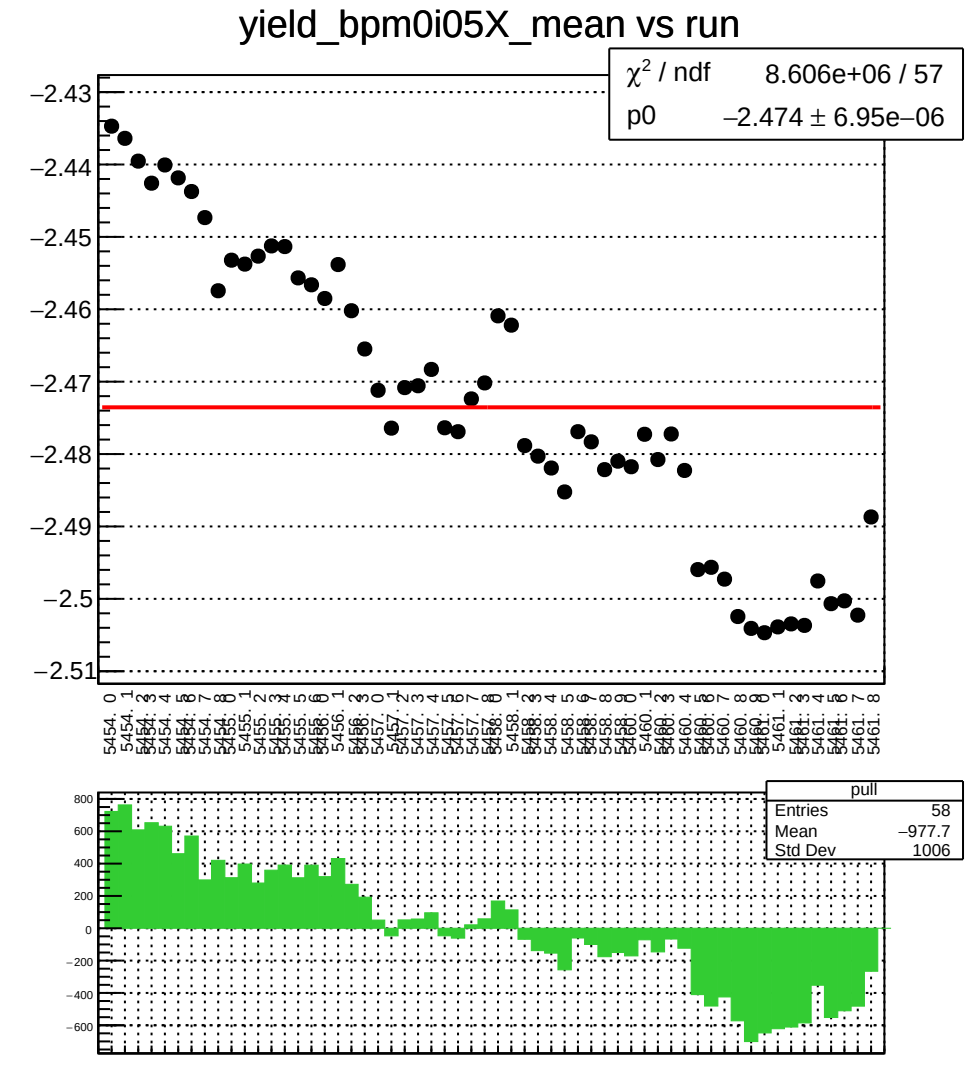

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

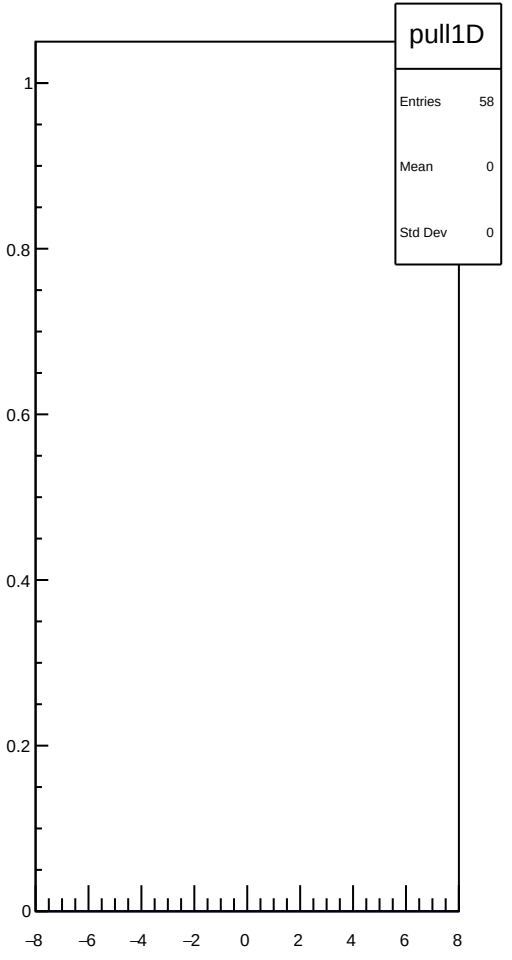

yield_bpm0i02aX_rms vs run
χ² / ndf 1.718e+04 / 57
p0 0.01298 ± 1.25e−05
0.03
0.025
0.02
0.015
0.01

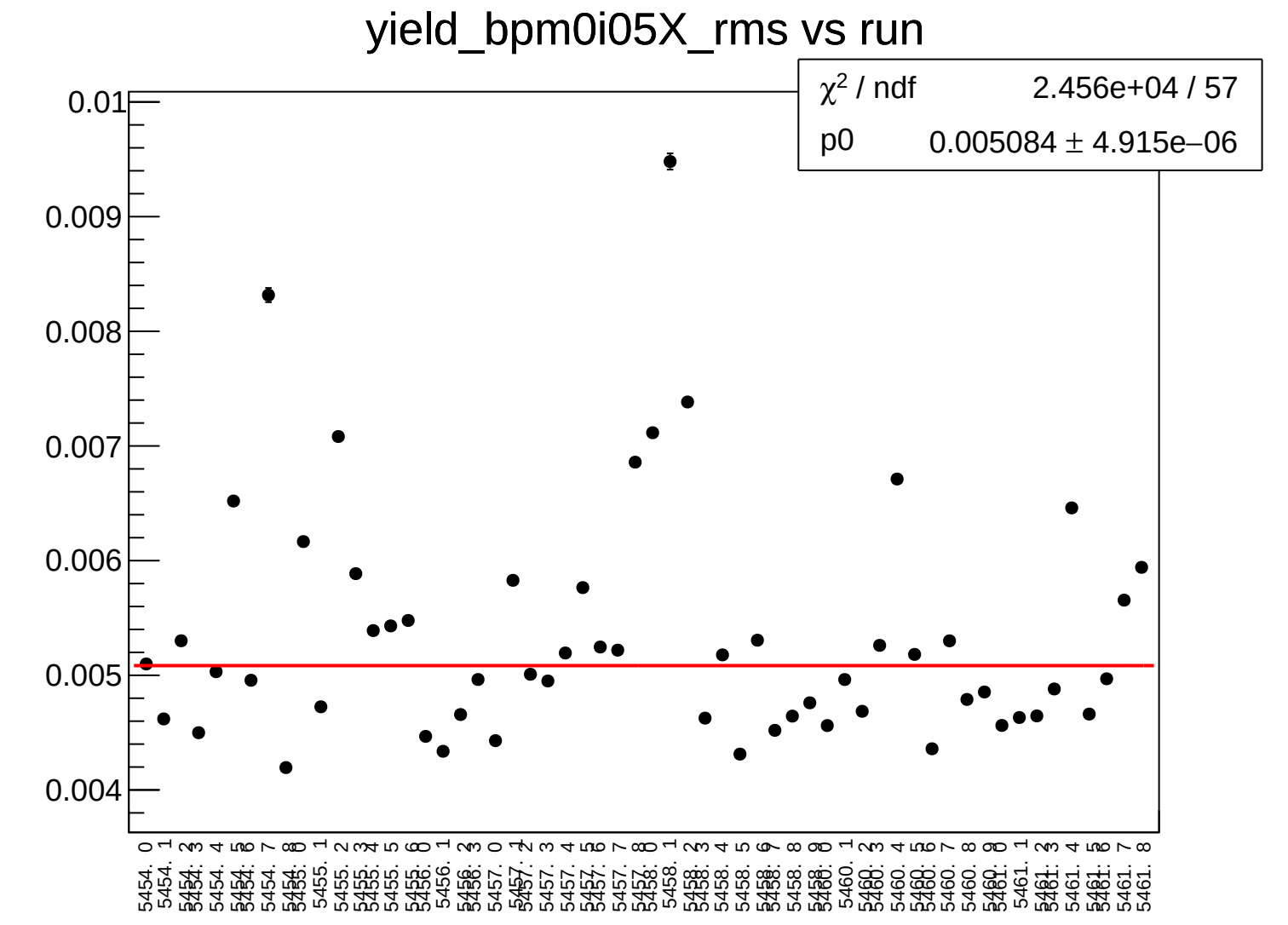

yield_bpm0i02aY_mean vs run
χ² / ndf 1.588e+07 / 57
p0 −1.139 ± 1.003e−05
pull
Entries 58
Mean 384.7
Std Dev 357.3

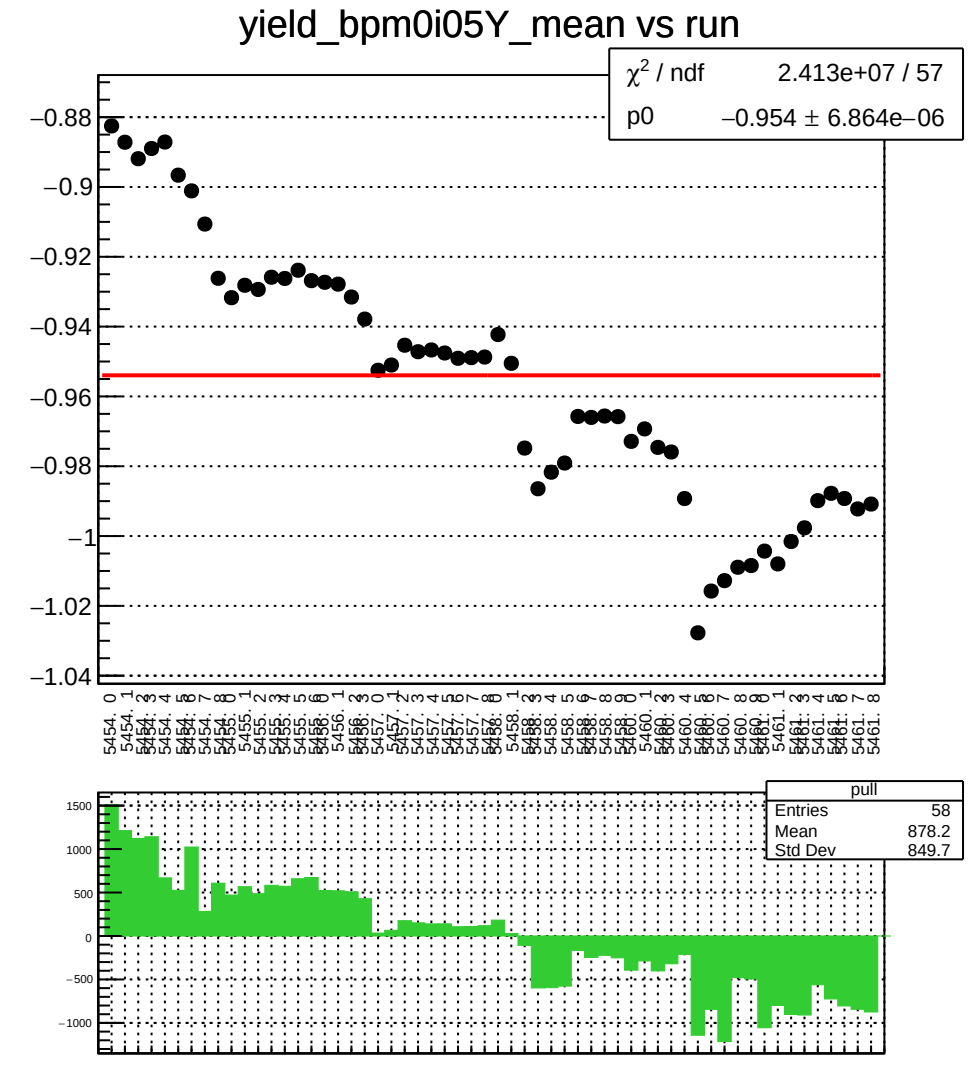

pull1D
Entries 58
Mean 0
Std Dev 0

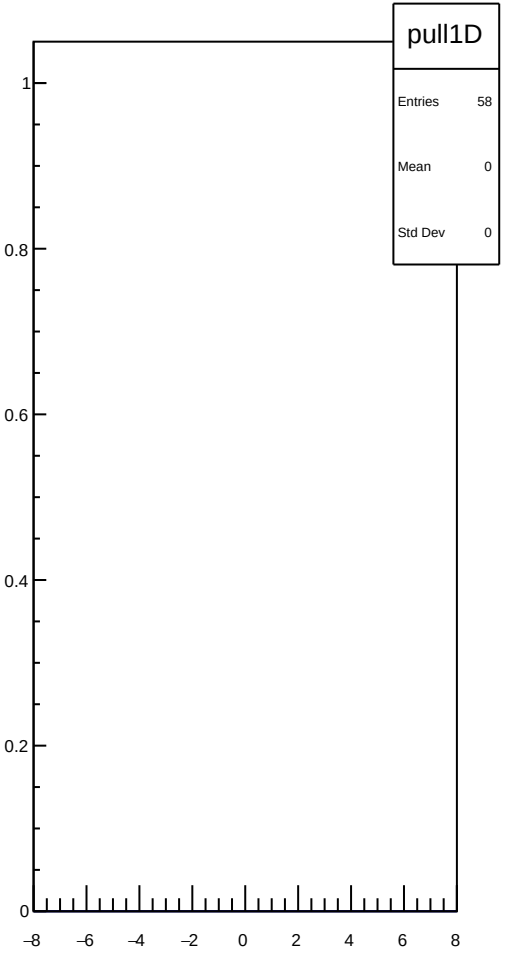

yield_bpm0i02aY_rms vs run
χ² / ndf 7.383e+04 / 57
p0 0.007166 ± 7.092e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

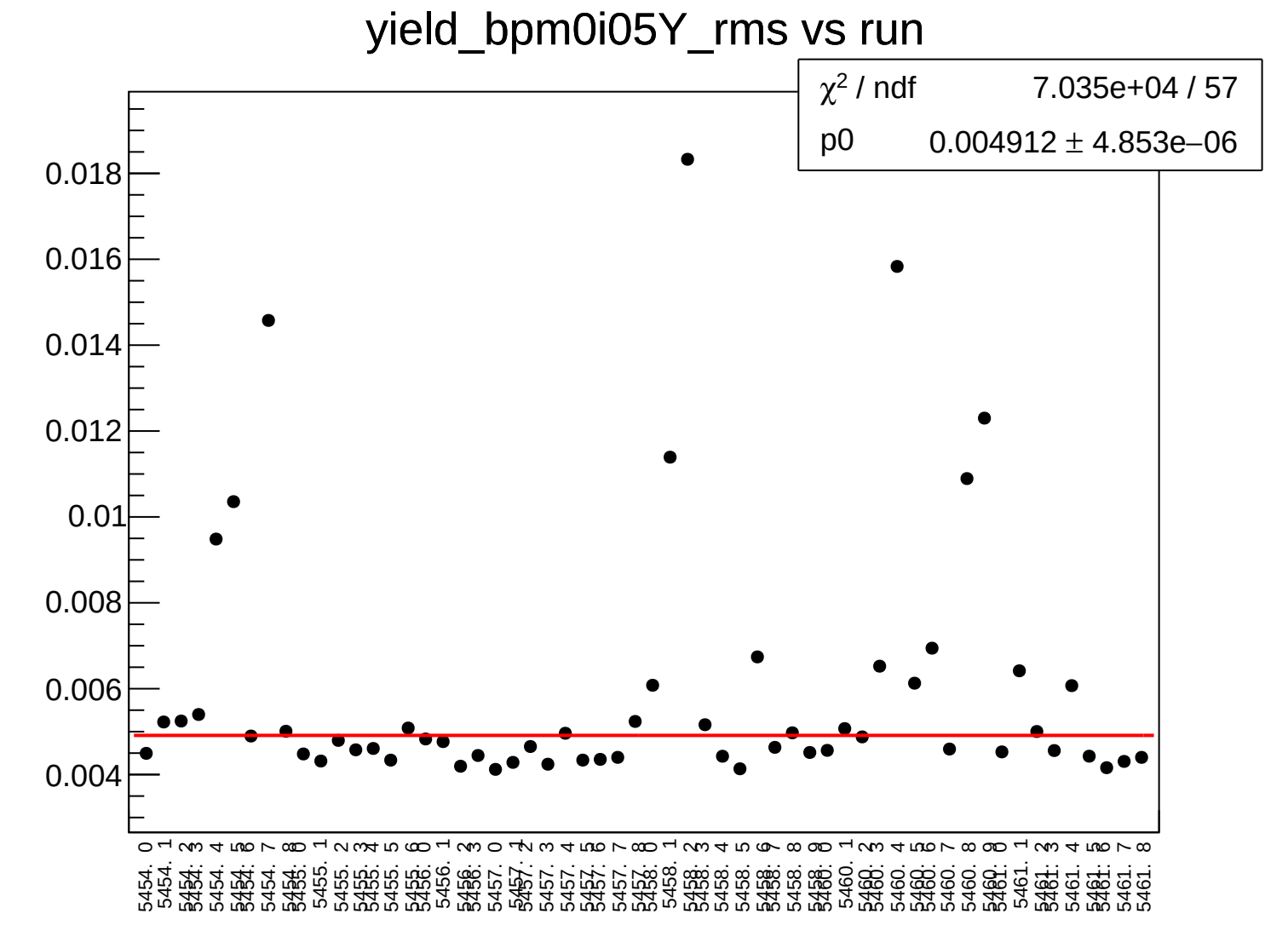

yield_bpm0i05X_mean vs run
χ² / ndf 8.606e+06 / 57
p0 −2.474 ± 6.95e−06
−2.43
−2.44
−2.45
−2.46
−2.47
−2.48
−2.49
−2.5
−2.51
pull
Entries 58
Mean −977.7
Std Dev 1006
800
600
400
200
0
−200
−400
−600

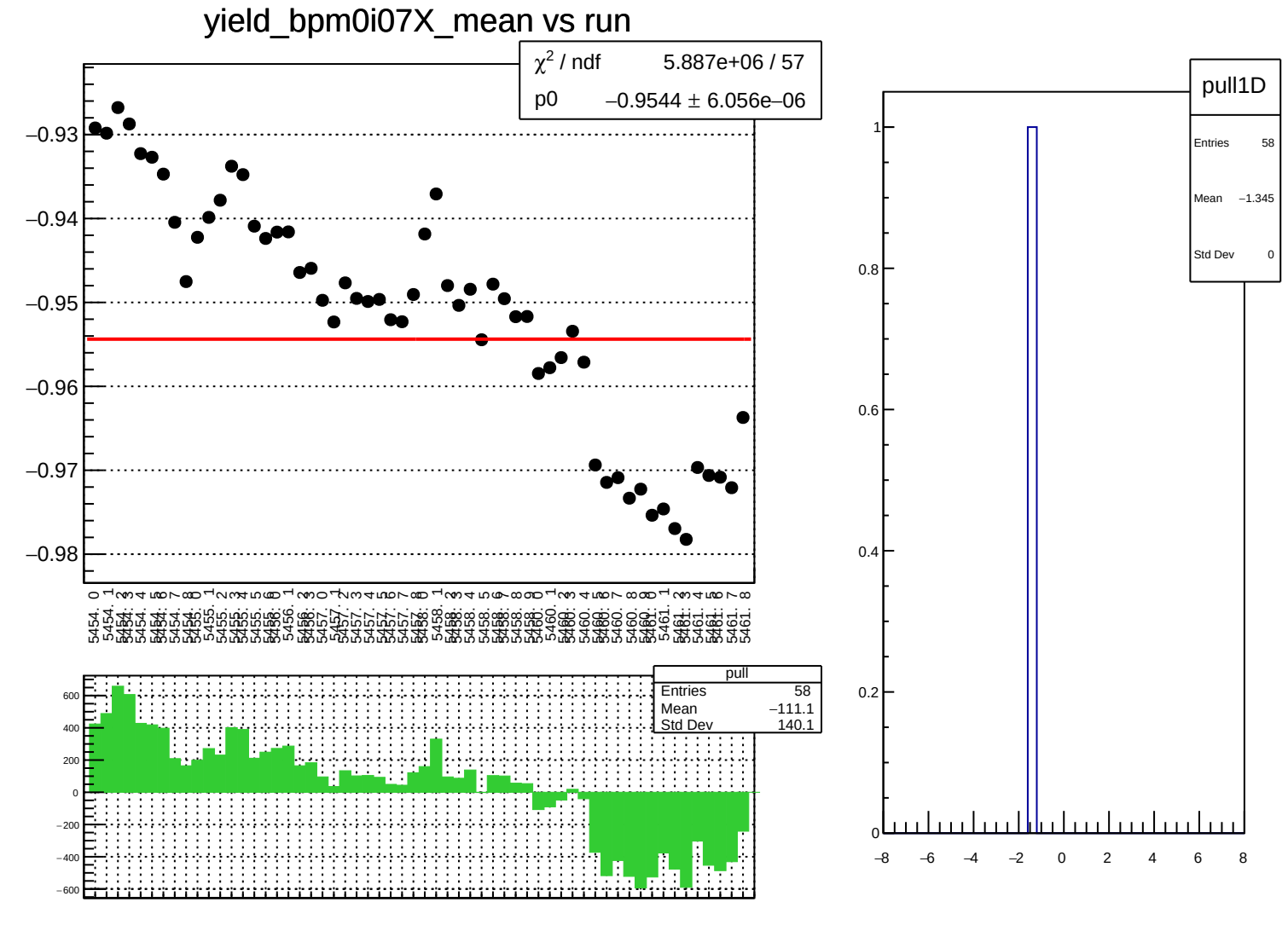

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

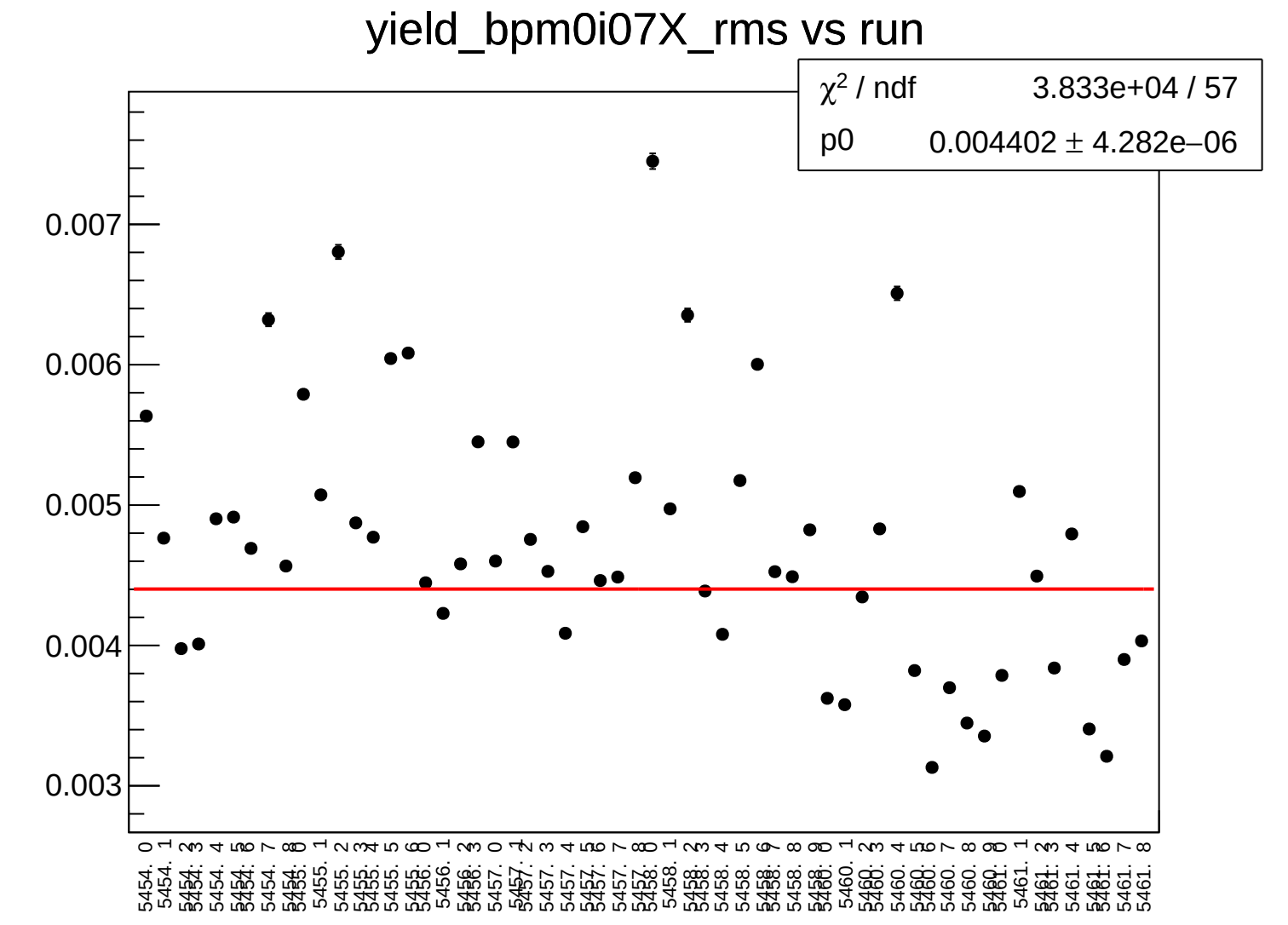

yield_bpm0i05X_rms vs run
χ² / ndf 2.456e+04 / 57
p0 0.005084 ± 4.915e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

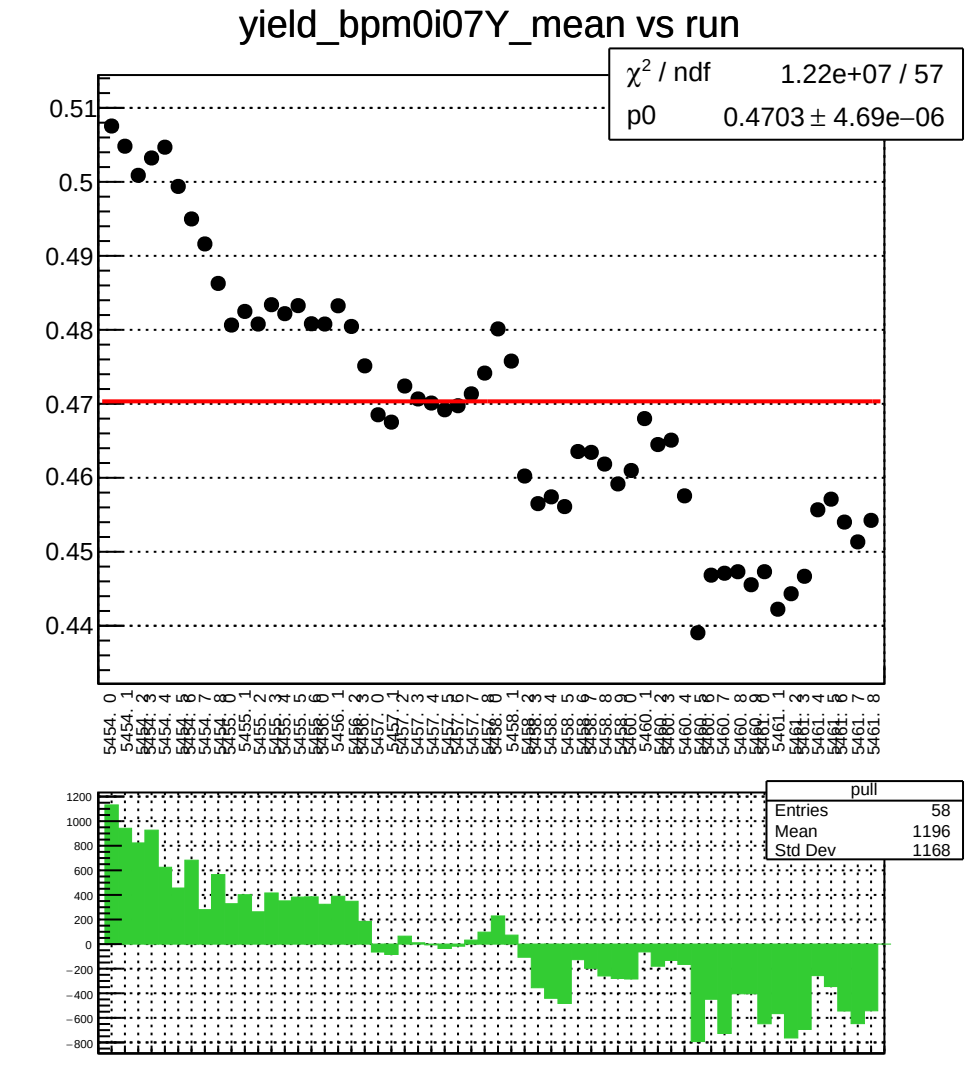

yield_bpm0i05Y_mean vs run
χ² / ndf 2.413e+07 / 57
p0 −0.954 ± 6.864e−06
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
−1
−1.02
−1.04
pull
Entries 58
Mean 878.2
Std Dev 849.7
1500
1000
500
0
−500
−1000

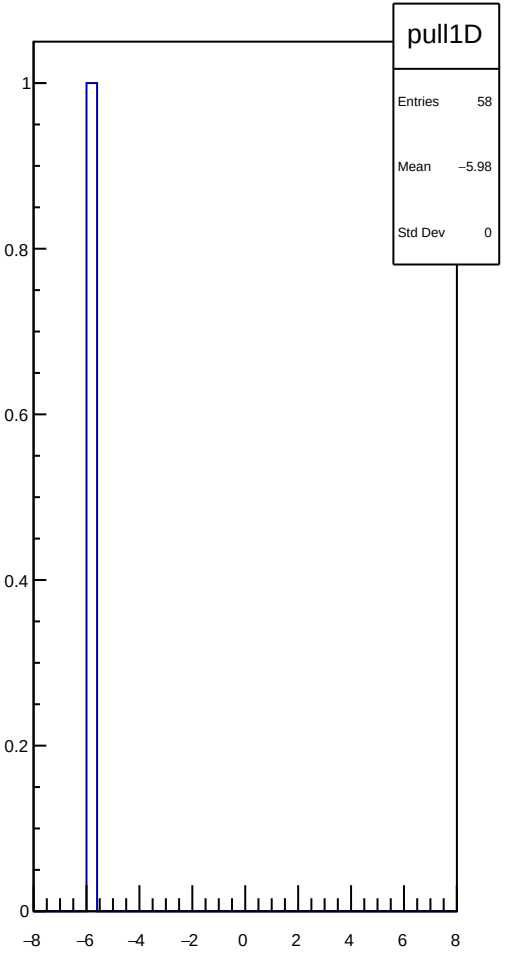

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

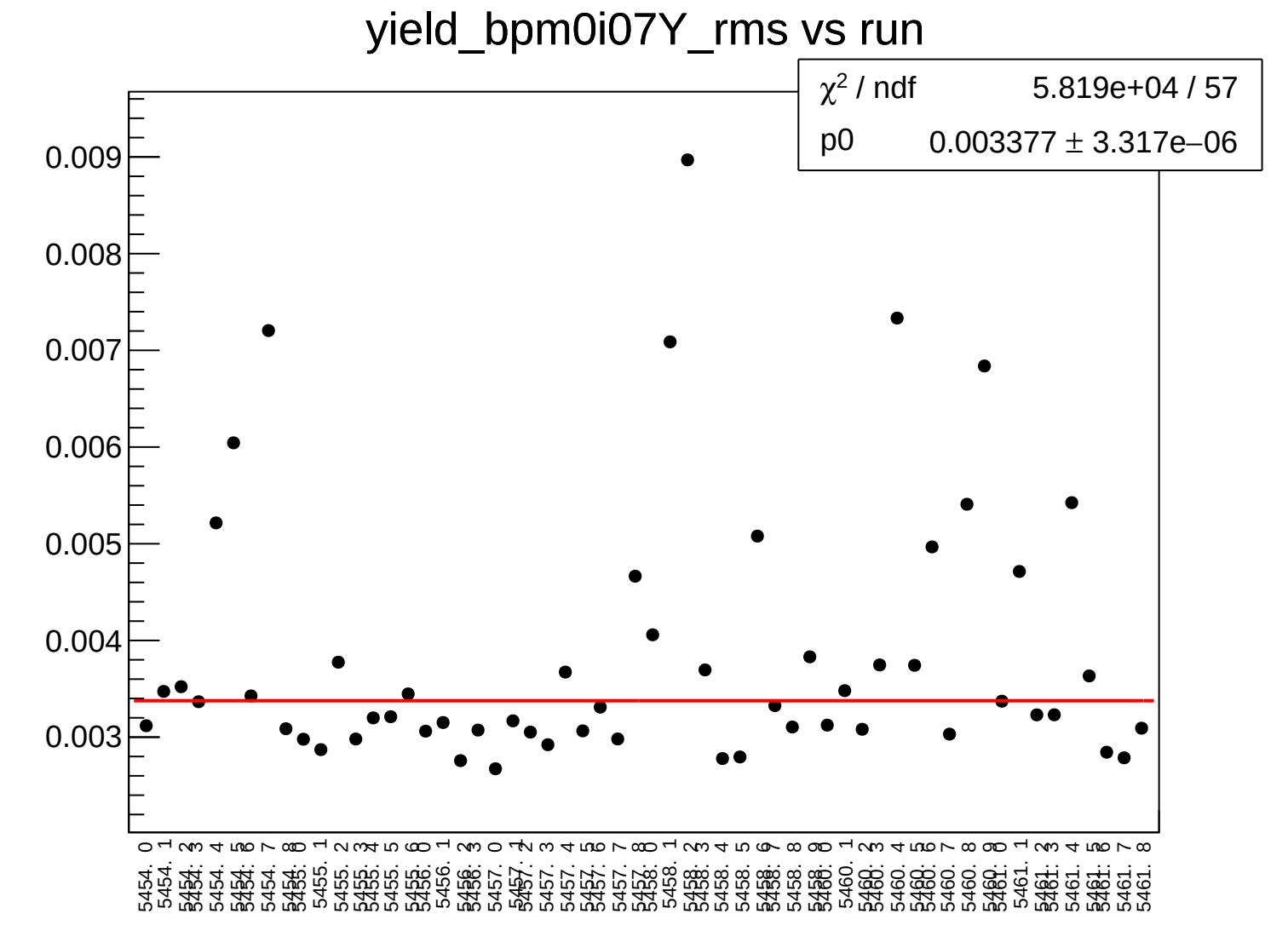

yield_bpm0i05Y_rms vs run
χ² / ndf 7.035e+04 / 57
p0 0.004912 ± 4.853e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

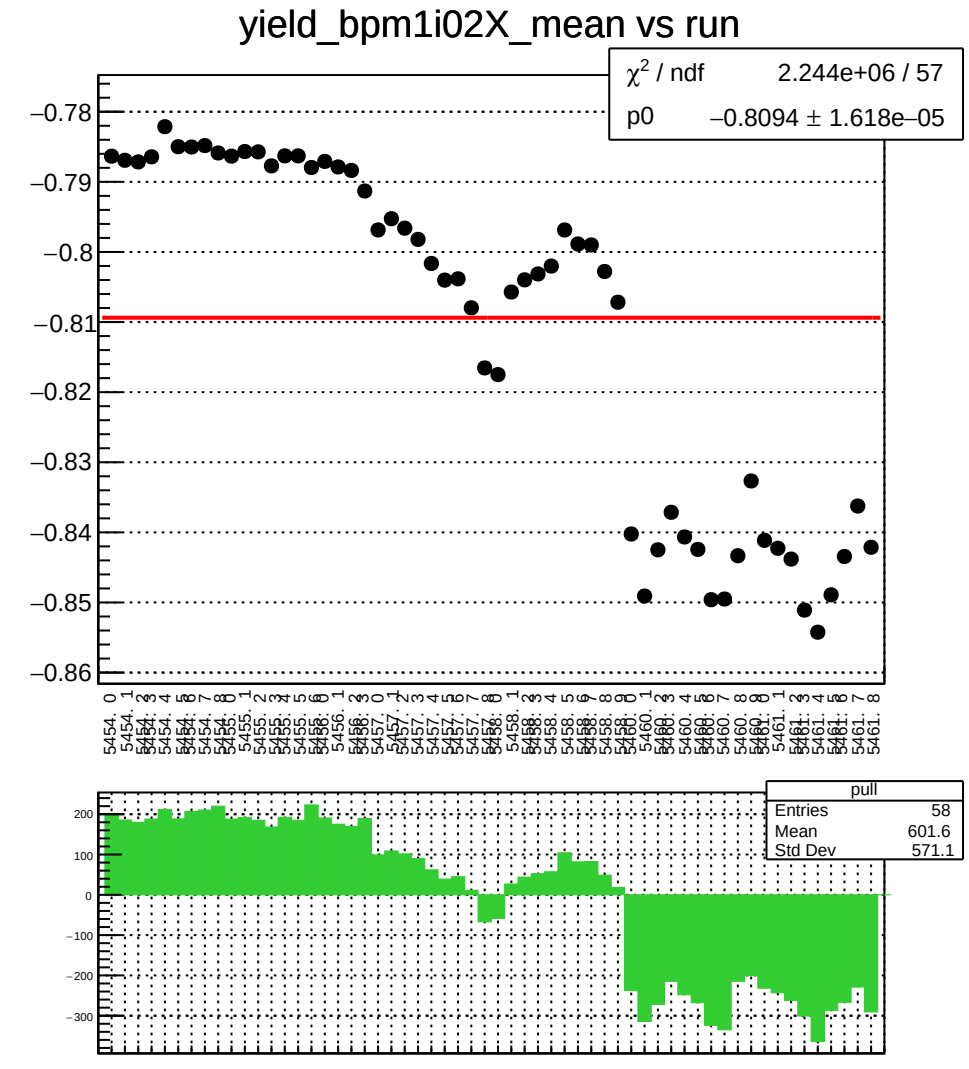

yield_bpm0i07X_mean vs run
χ² / ndf 5.887e+06 / 57
p0 −0.9544 ± 6.056e−06
−0.93
−0.94
−0.95
−0.96
−0.97
−0.98
pull
Entries 58
Mean −111.1
Std Dev 140.1
600
400
200
0
−200
−400
−600
pull1D
Entries 58
Mean −1.345
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

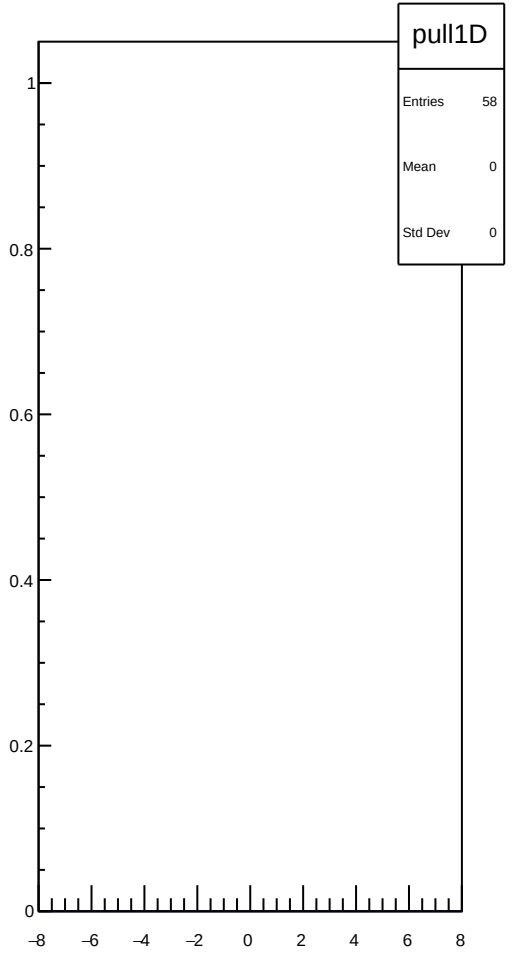

yield_bpm0i07X_rms vs run
χ² / ndf 3.833e+04 / 57
p0 0.004402 ± 4.282e−06
0.007
0.006
0.005
0.004
0.003

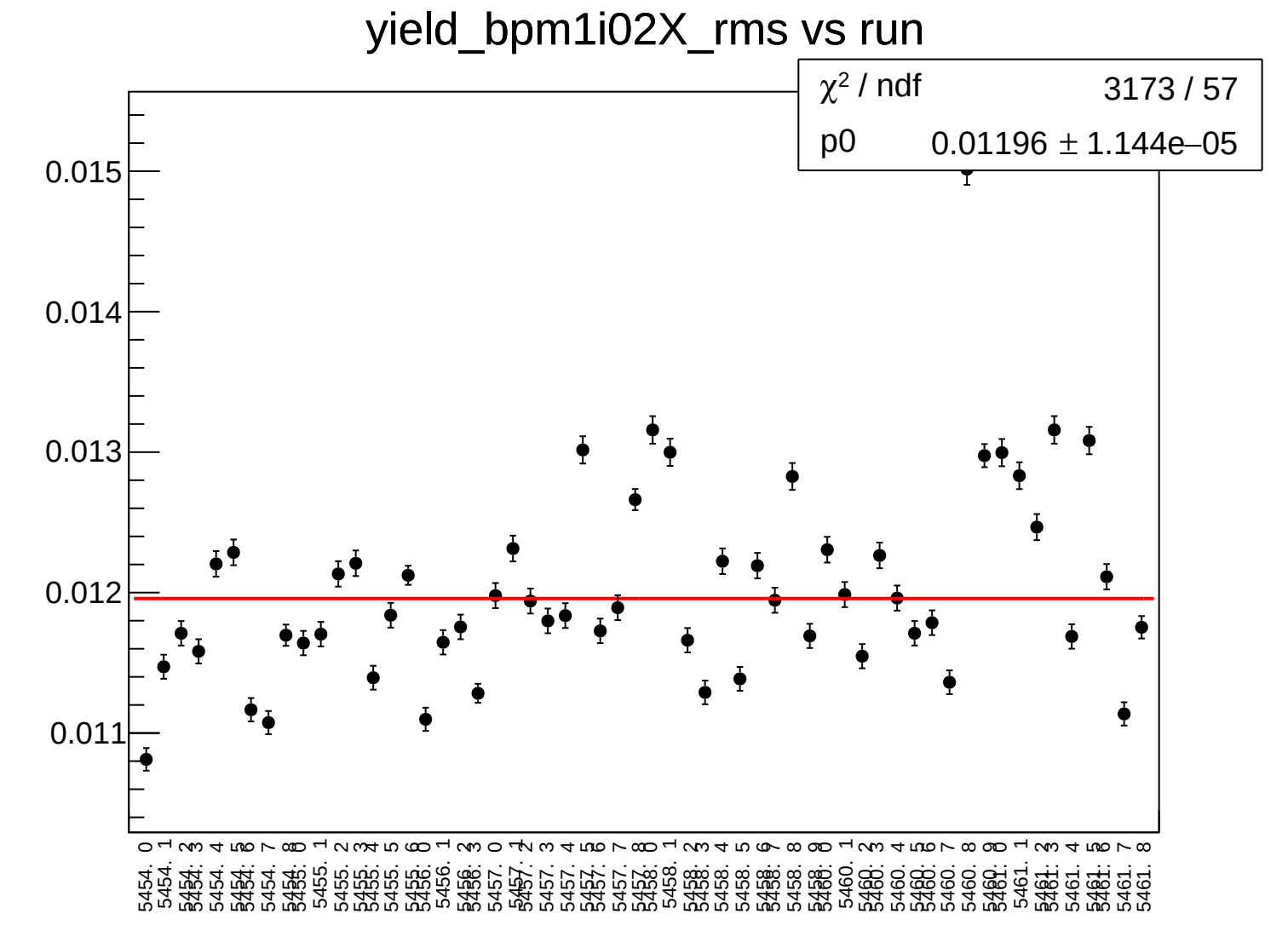

yield_bpm0i07Y_mean vs run
χ² / ndf 1.22e+07 / 57
p0 0.4703 ± 4.69e−06
0.51
0.5
0.49
0.48
0.47
0.46
0.45
0.44
pull
Entries 58
Mean 1196
Std Dev 1168
1200
1000
800
600
400
200
0
−200
−400
−600
−800

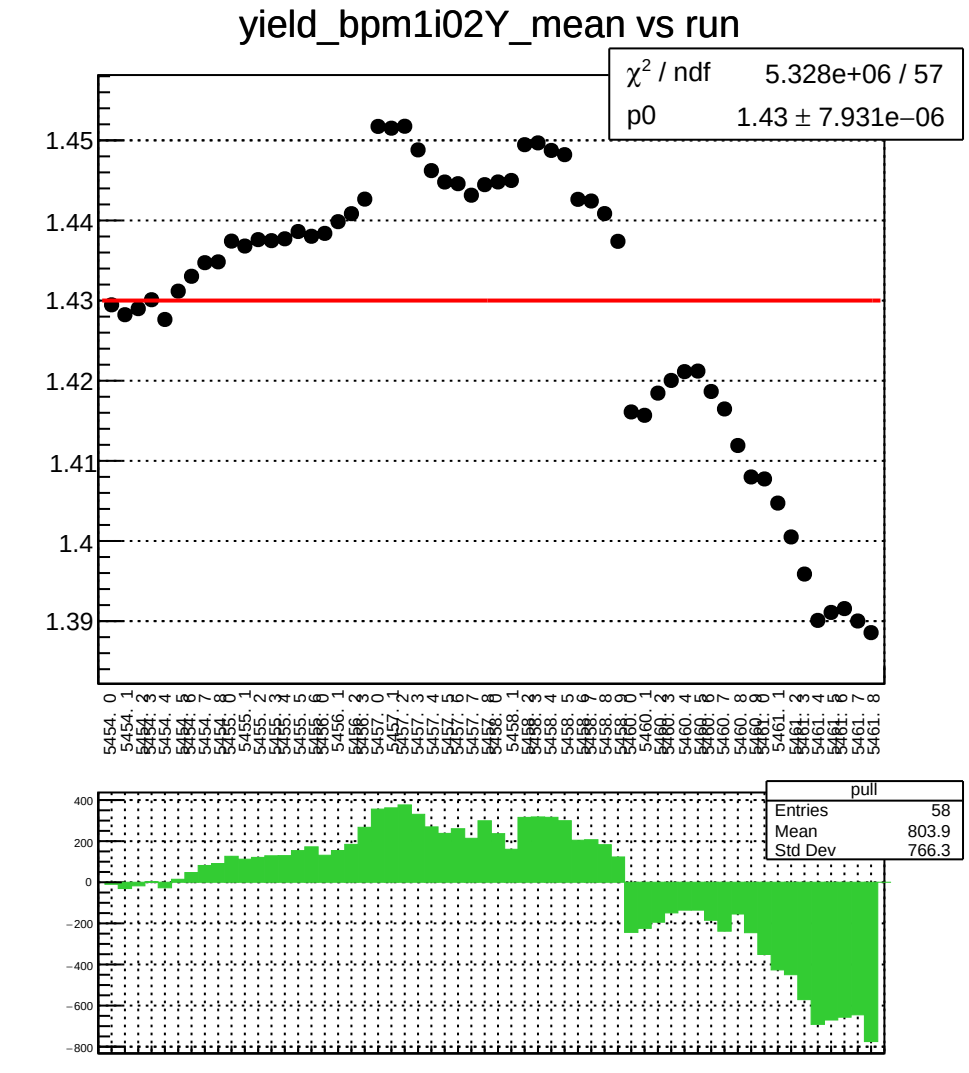

pull1D
Entries 58
Mean −5.98
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

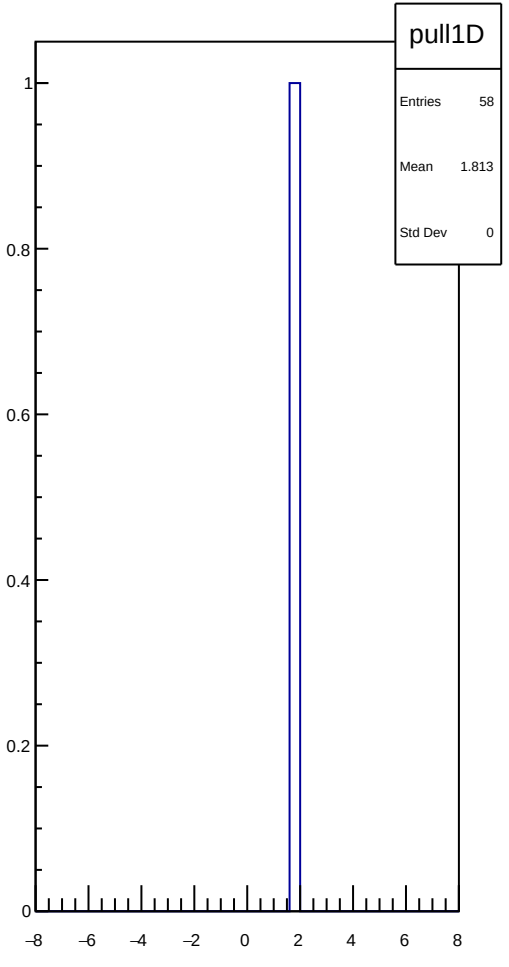

yield_bpm0i07Y_rms vs run
χ² / ndf 5.819e+04 / 57
p0 0.003377 ± 3.317e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

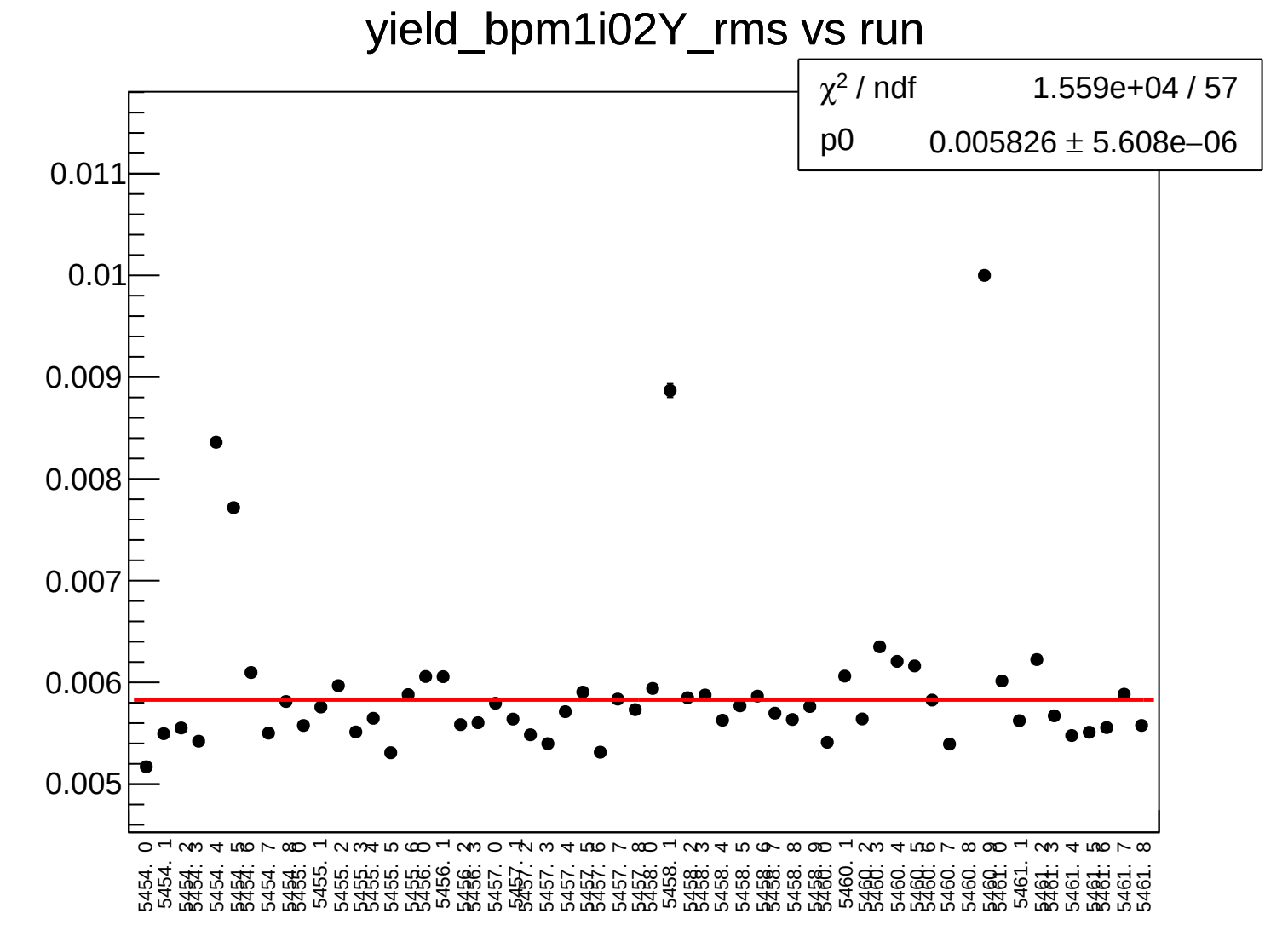

yield_bpm1i02X_mean vs run
χ² / ndf 2.244e+06 / 57
p0 −0.8094 ± 1.618e−05
pull
Entries 58
Mean 601.6
Std Dev 571.1

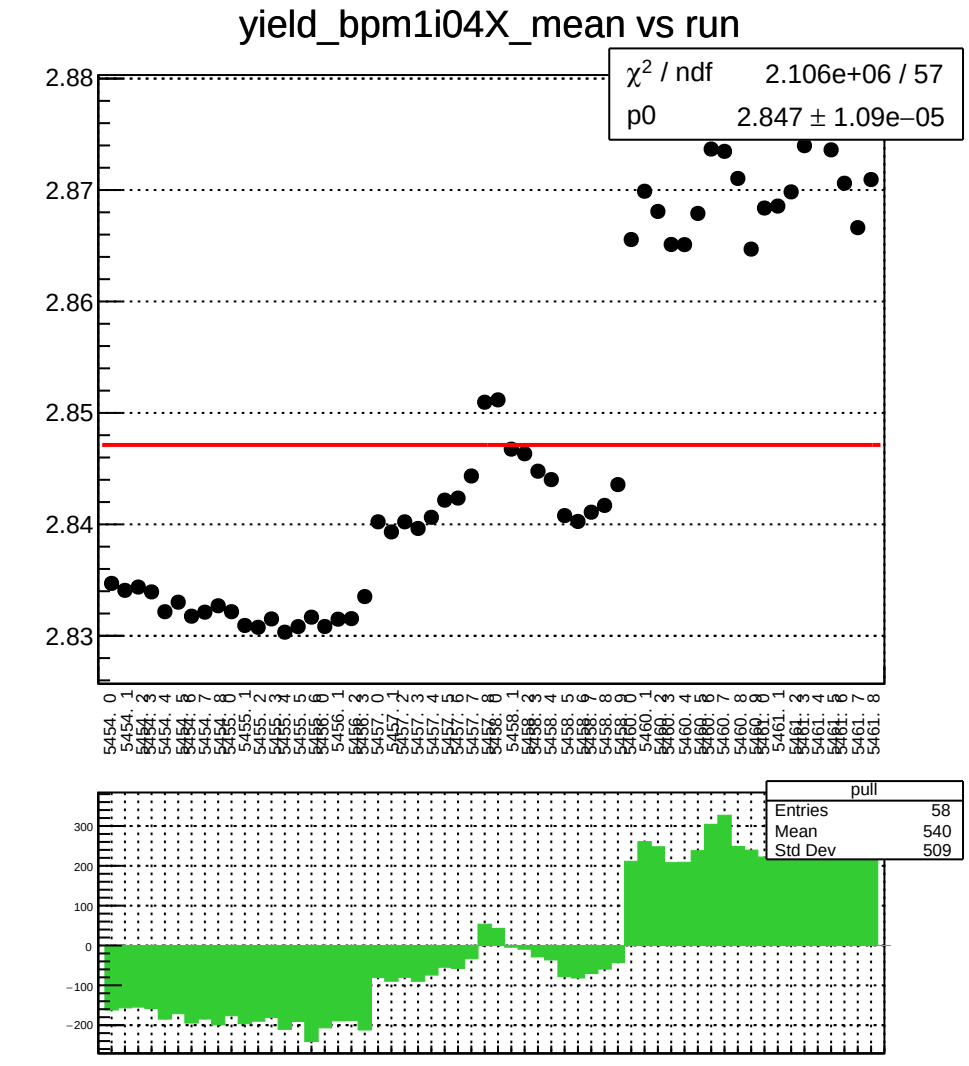

pull1D
Entries 58
Mean 0
Std Dev 0

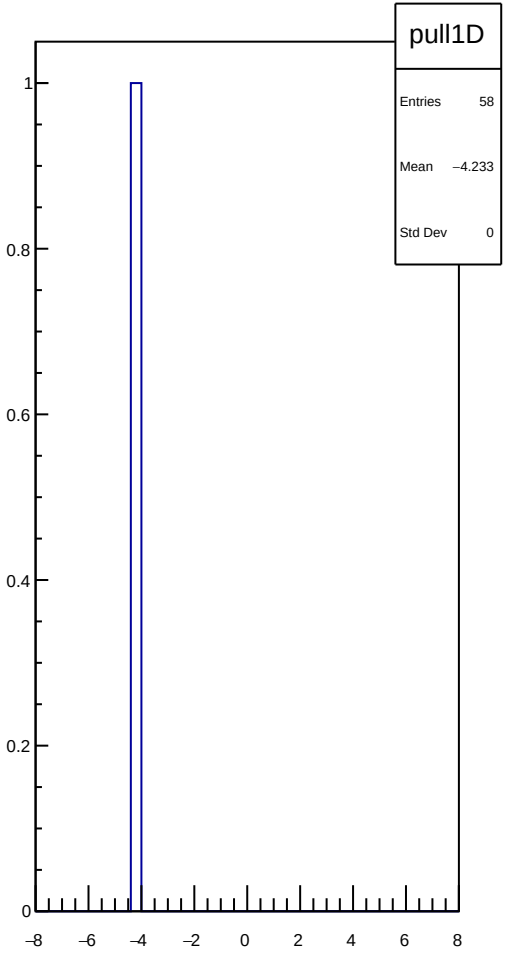

yield_bpm1i02X_rms vs run
χ² / ndf 3173 / 57
p0 0.01196 ± 1.144e–05
0.015
0.014
0.013
0.012
0.011

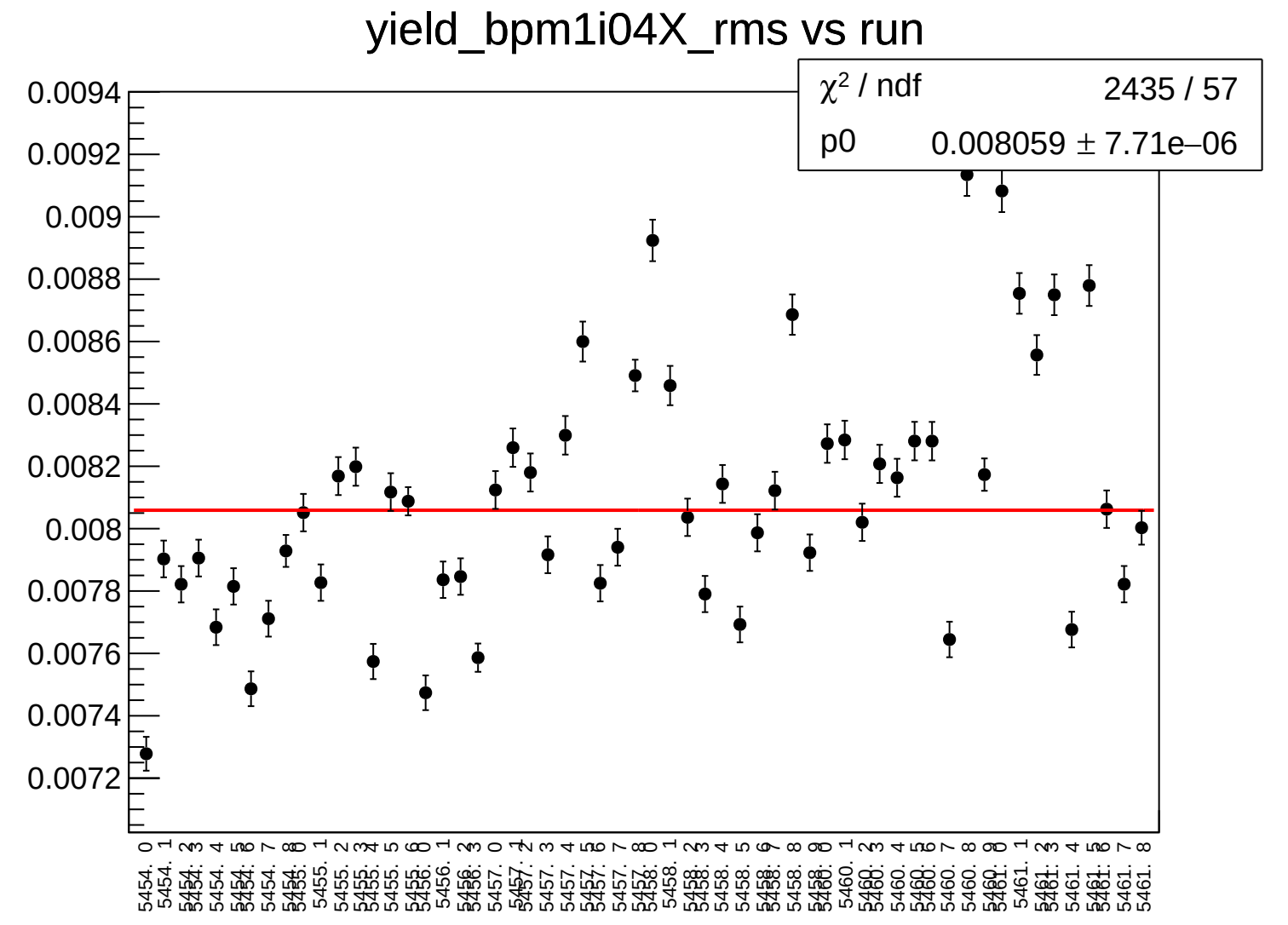

yield_bpm1i02Y_mean vs run
χ² / ndf 5.328e+06 / 57
p0 1.43 ± 7.931e−06
1.45
1.44
1.43
1.42
1.41
1.4
1.39
pull
Entries 58
Mean 803.9
Std Dev 766.3
400
200
0
−200
−400
−600
−800

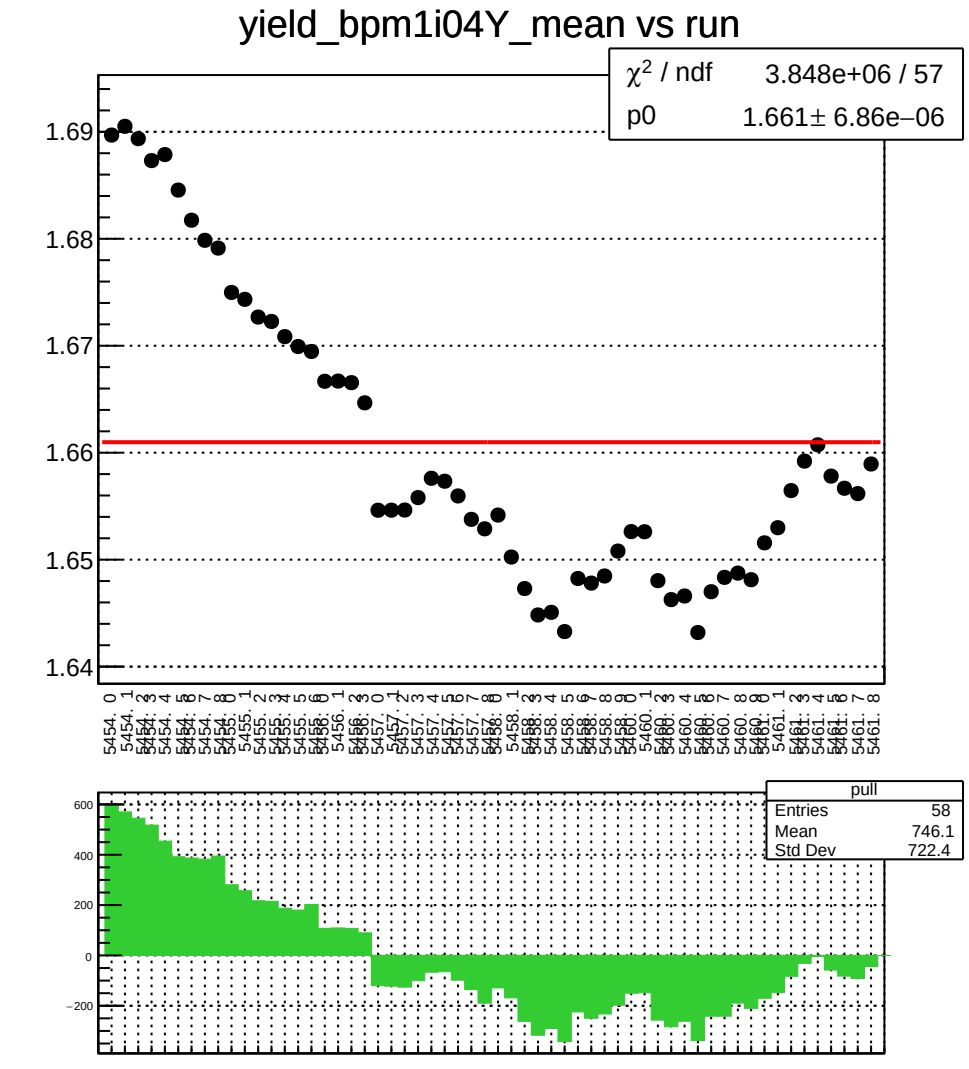

pull1D
Entries 58
Mean 1.813
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

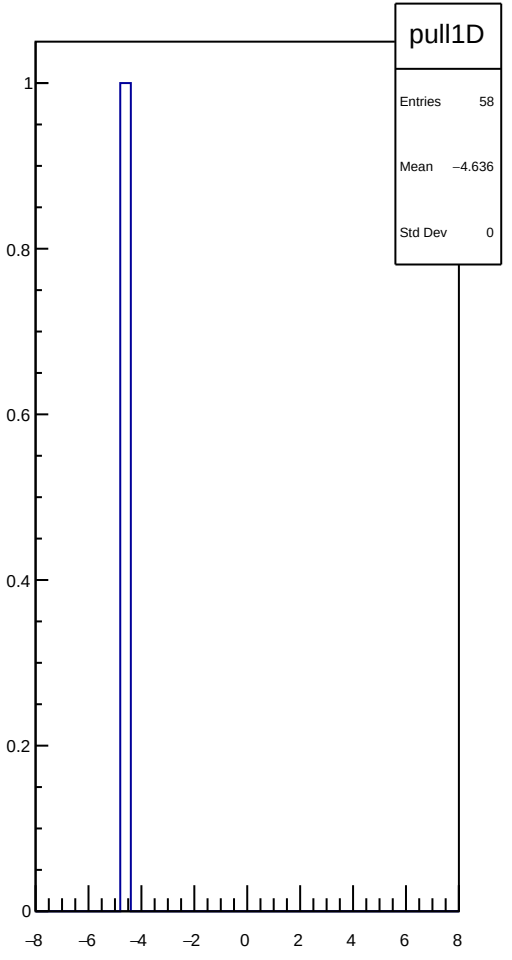

yield_bpm1i02Y_rms vs run
χ² / ndf 1.559e+04 / 57
p0 0.005826 ± 5.608e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005

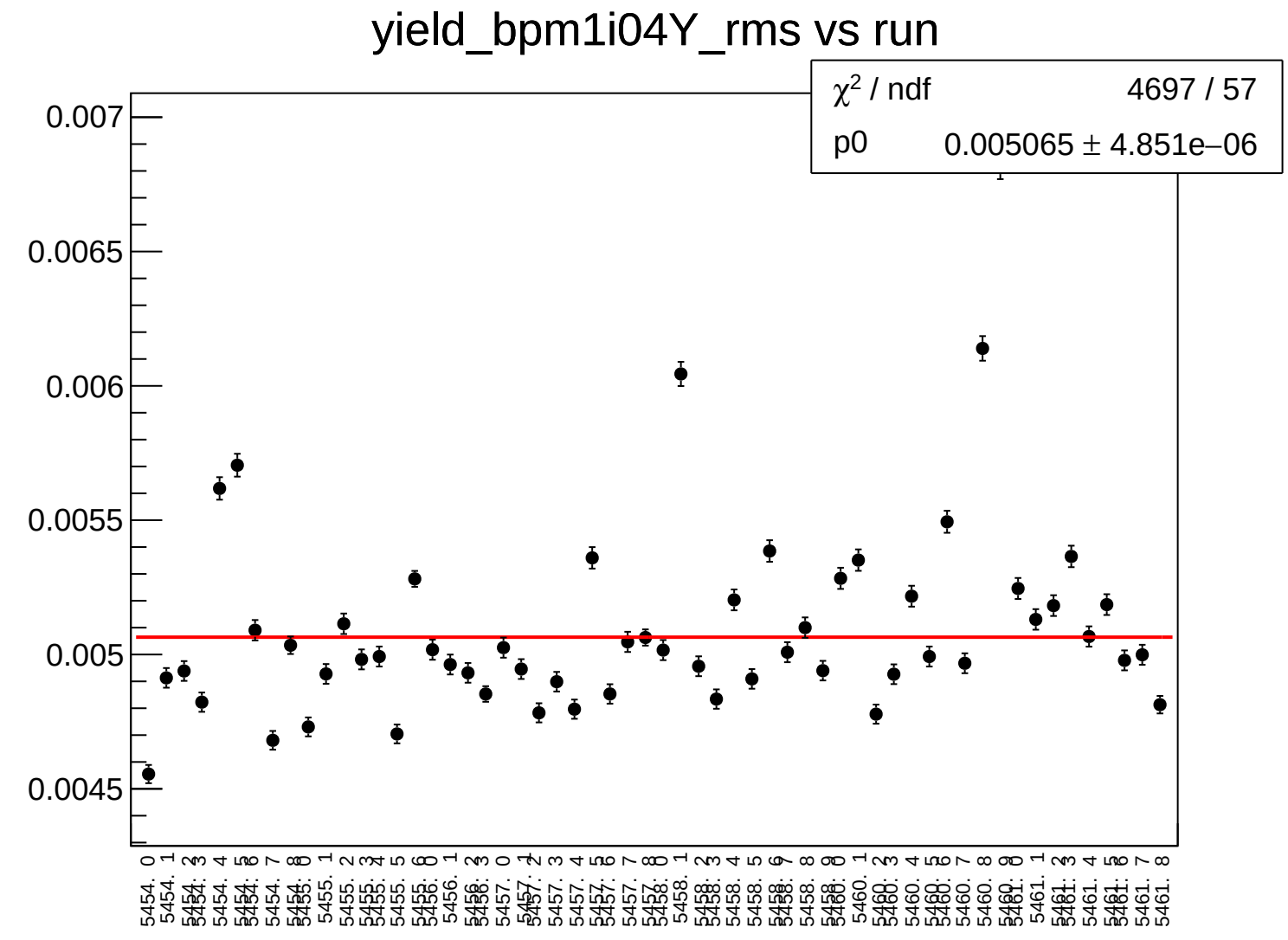

yield_bpm1i04X_mean vs run
χ² / ndf 2.106e+06 / 57
p0 2.847 ± 1.09e−05
2.88
2.87
2.86
2.85
2.84
2.83
pull
Entries 58
Mean 540
Std Dev 509
300
200
100
0
−100
−200

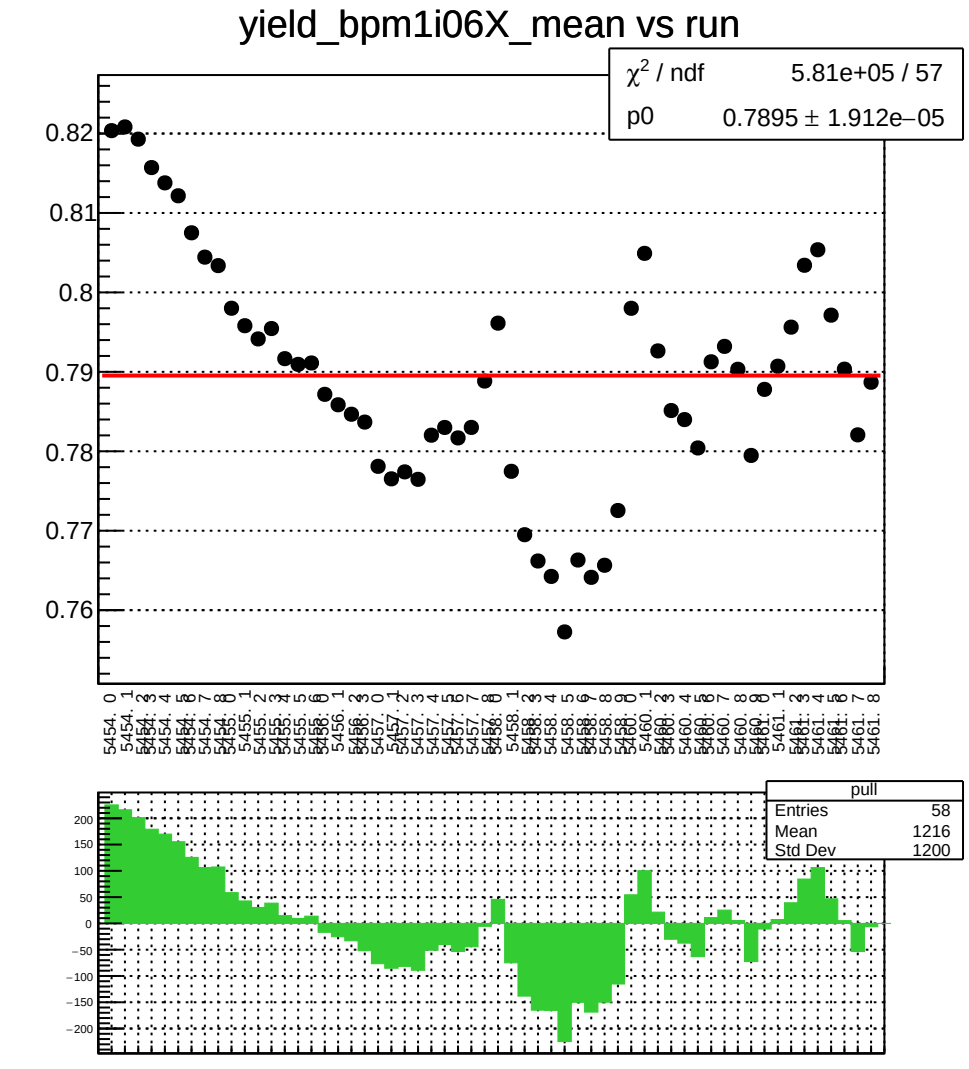

pull1D
Entries 58
Mean −4.233
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

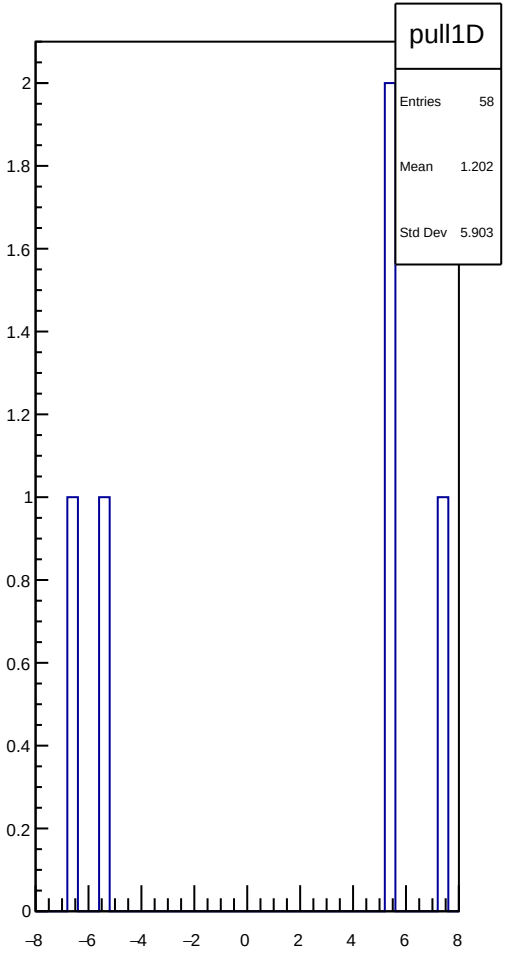

yield_bpm1i04X_rms vs run
χ² / ndf 2435 / 57
p0 0.008059 ± 7.71e–06
0.0094
0.0092
0.009
0.0088
0.0086
0.0084
0.0082
0.008
0.0078
0.0076
0.0074
0.0072

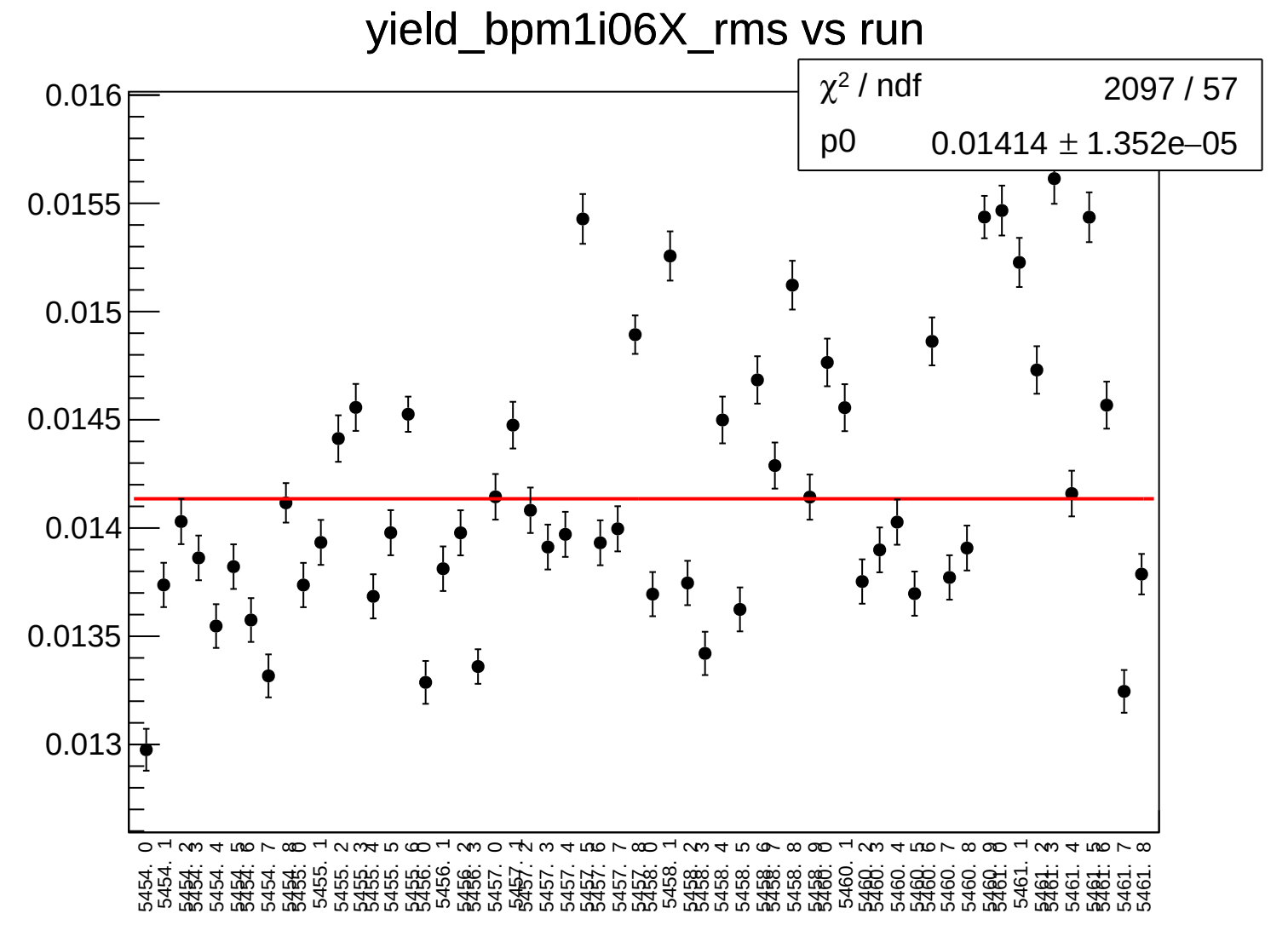

yield_bpm1i04Y_mean vs run
χ² / ndf 3.848e+06 / 57
p0 1.661± 6.86e−06
1.69
1.68
1.67
1.66
1.65
1.64
pull
Entries 58
Mean 746.1
Std Dev 722.4
600
400
200
0
−200

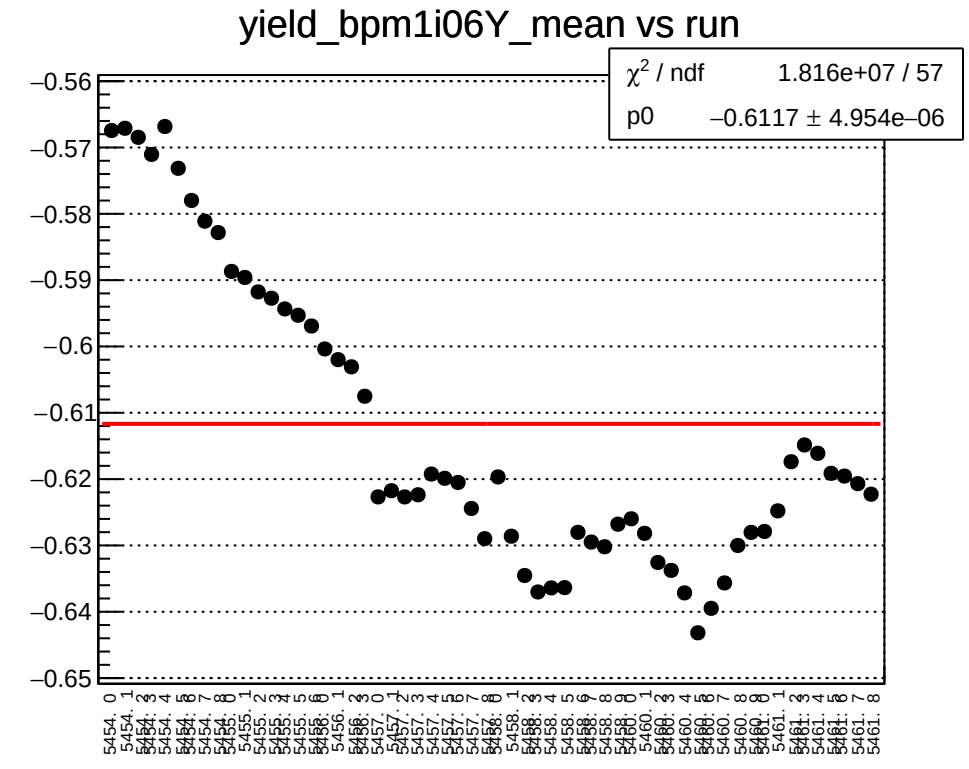

pull1D
Entries 58
Mean −4.636
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

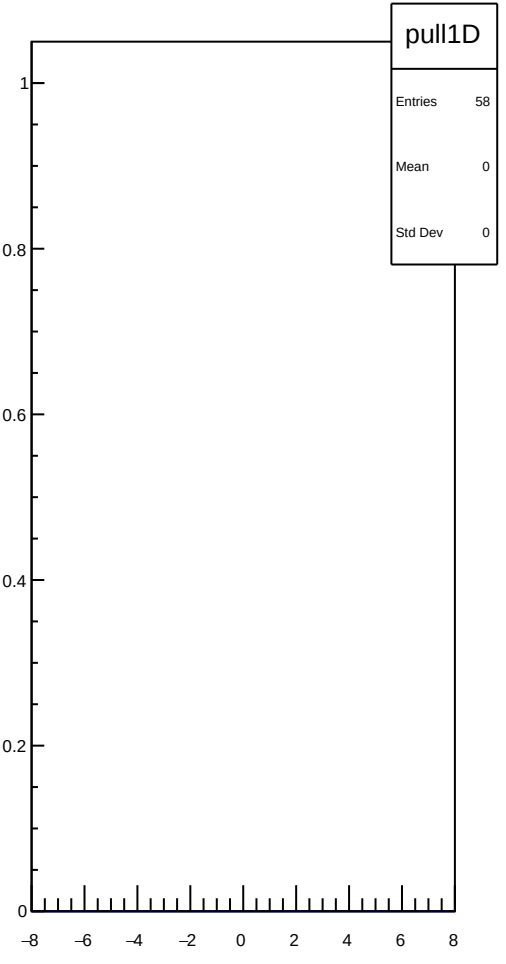

yield_bpm1i04Y_rms vs run
χ² / ndf 4697 / 57
p0 0.005065 ± 4.851e−06
0.007
0.0065
0.006
0.0055
0.005
0.0045

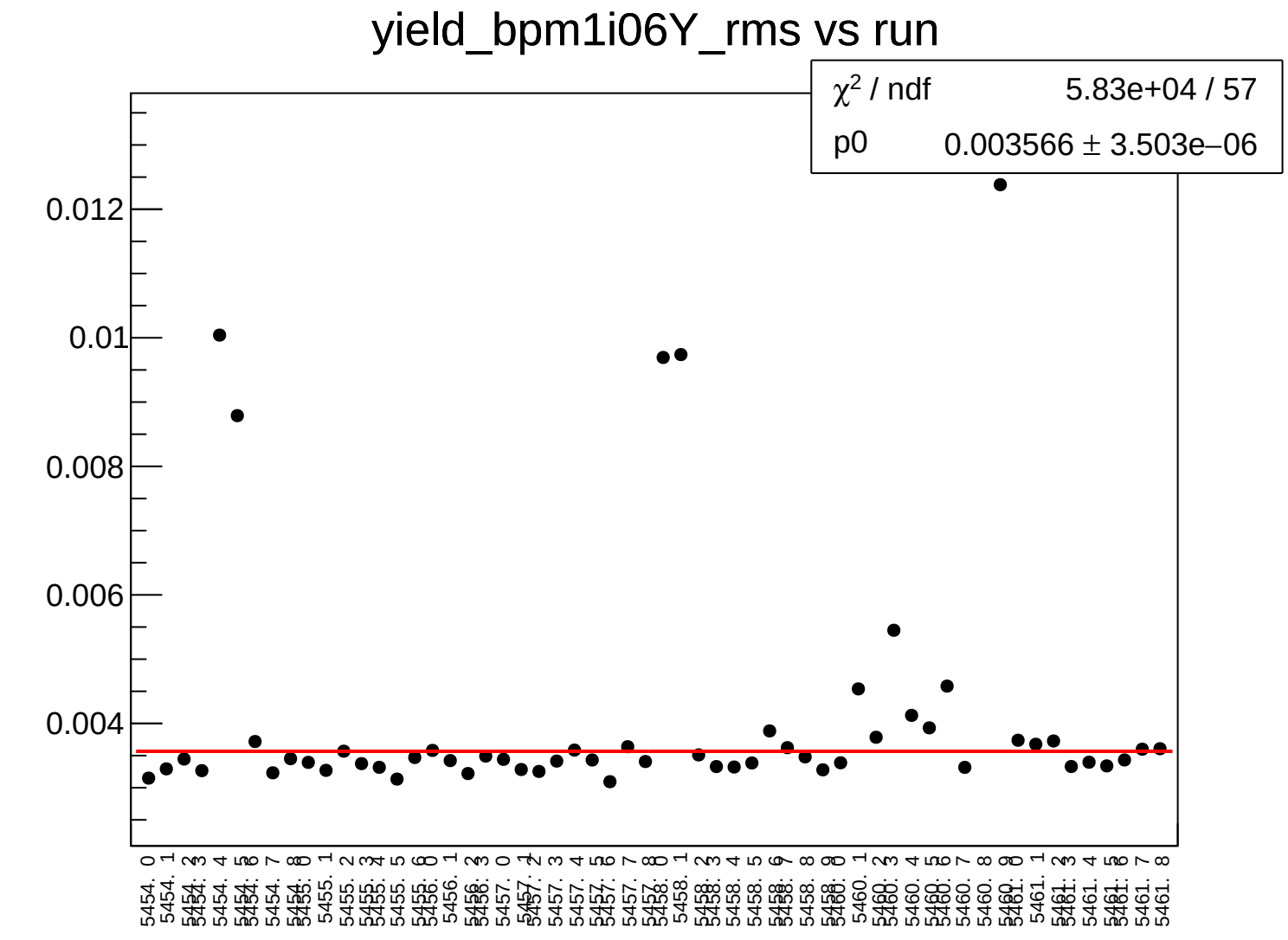

yield_bpm1i06X_mean vs run
χ² / ndf 5.81e+05 / 57
p0 0.7895 ± 1.912e−05
0.82
0.81
0.8
0.79
0.78
0.77
0.76
pull
Entries 58
Mean 1216
Std Dev 1200
200
150
100
50
0
−50
−100
−150
−200

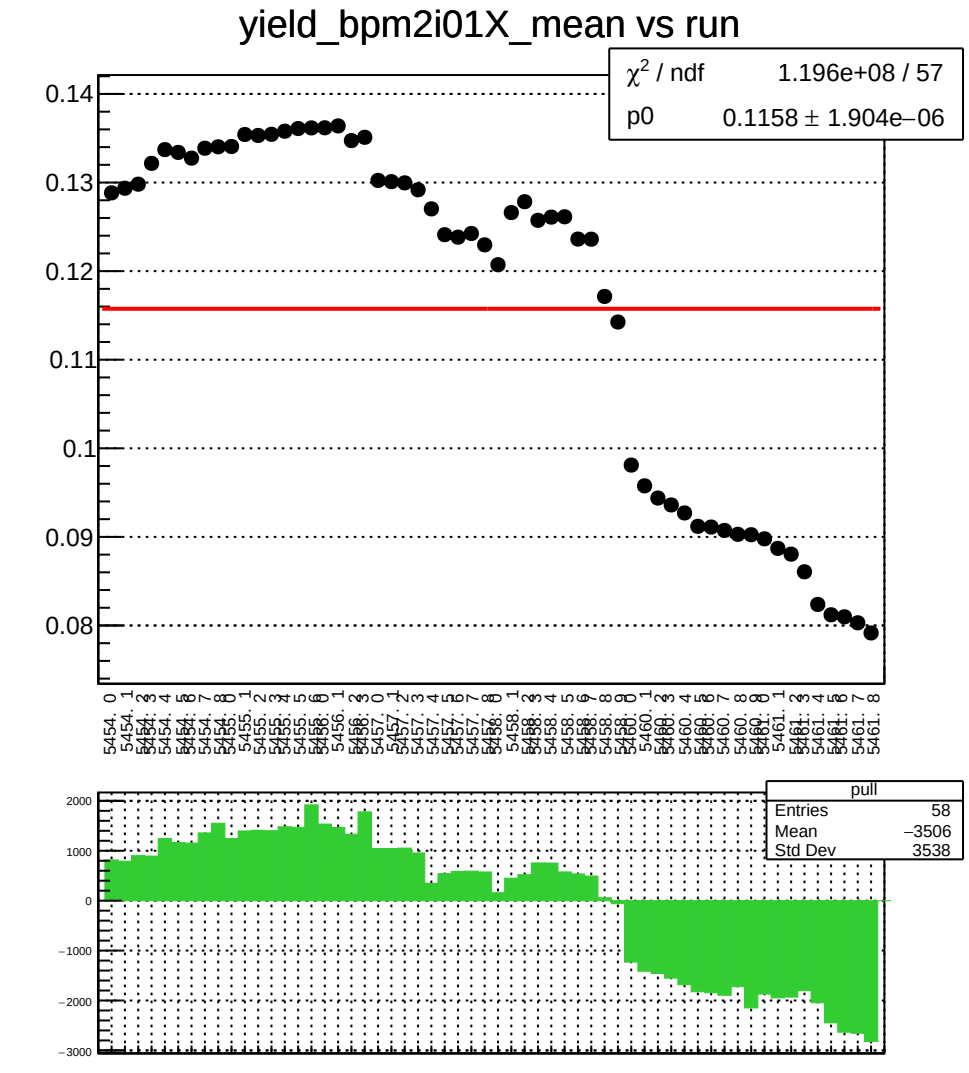

pull1D
Entries 58
Mean 1.202
Std Dev 5.903
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

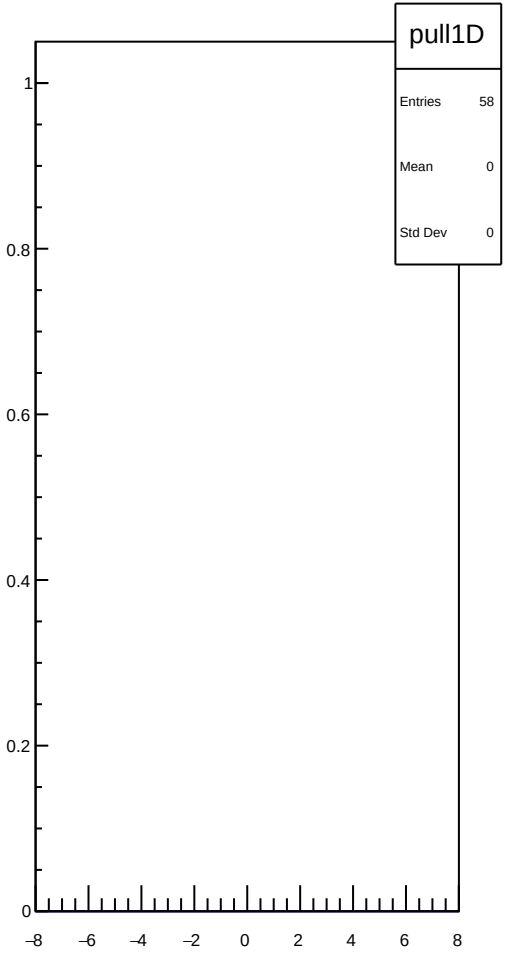

yield_bpm1i06X_rms vs run
χ² / ndf 2097 / 57
p0 0.01414 ± 1.352e–05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013

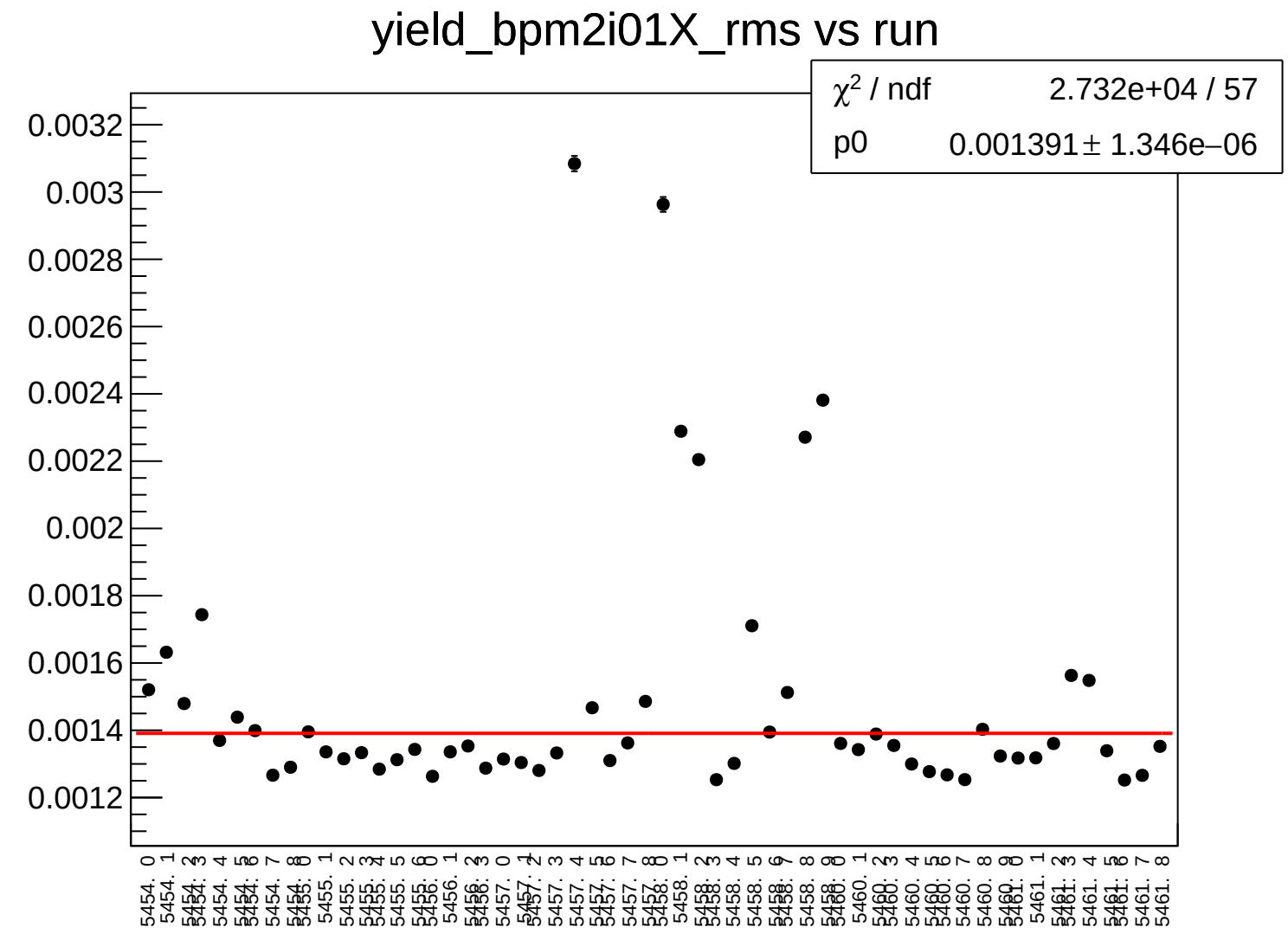

yield_bpm1i06Y_mean vs run
χ² / ndf 1.816e+07 / 57
p0 −0.6117 ± 4.954e−06
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
pull
Entries 58
Mean 476.9
Std Dev 452.7
1400
1200
1000
800
600
400
200
0
−200
−400
−600
−800

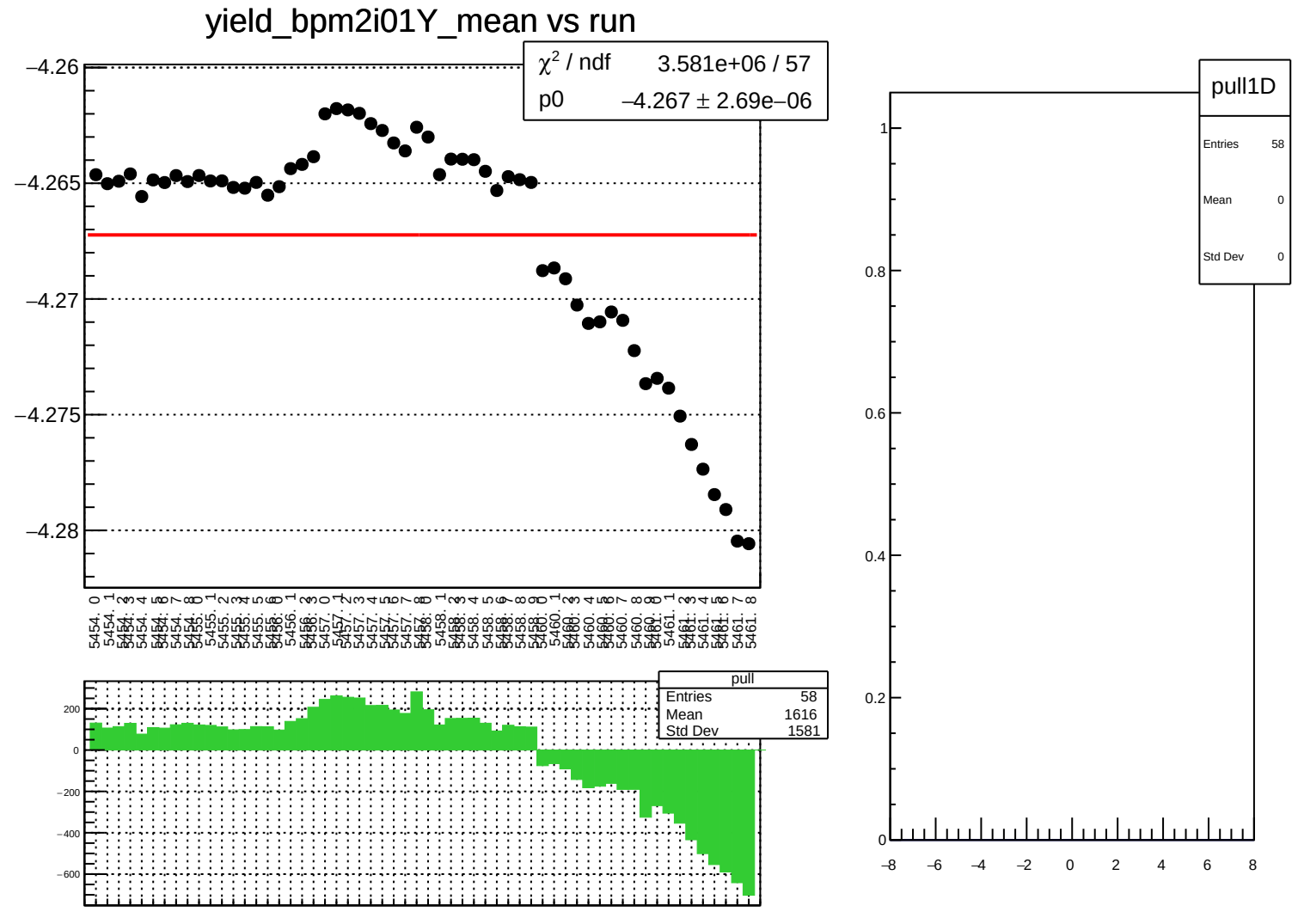

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

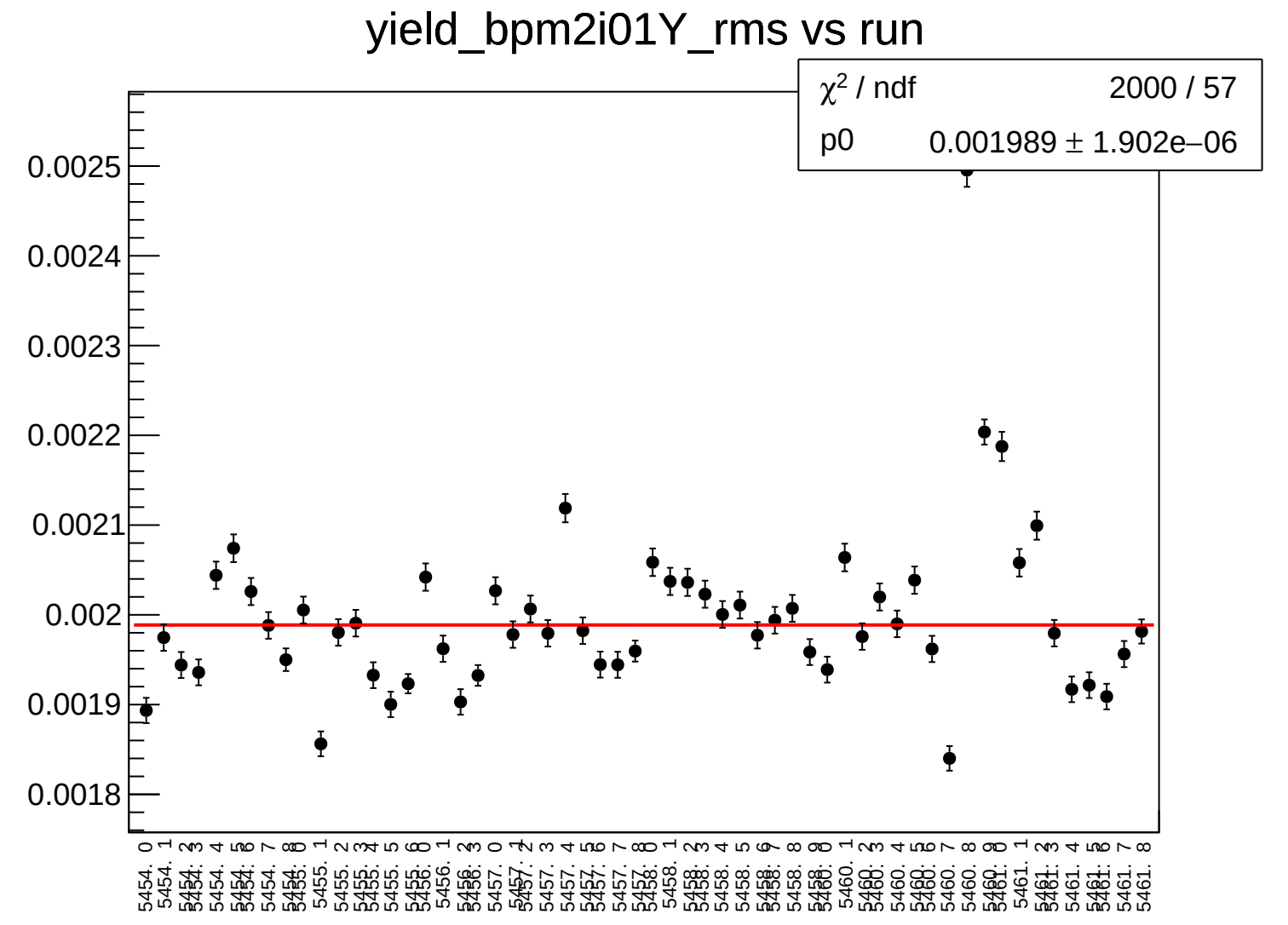

yield_bpm1i06Y_rms vs run
χ² / ndf 5.83e+04 / 57
p0 0.003566 ± 3.503e−06
0.012
0.01
0.008
0.006
0.004

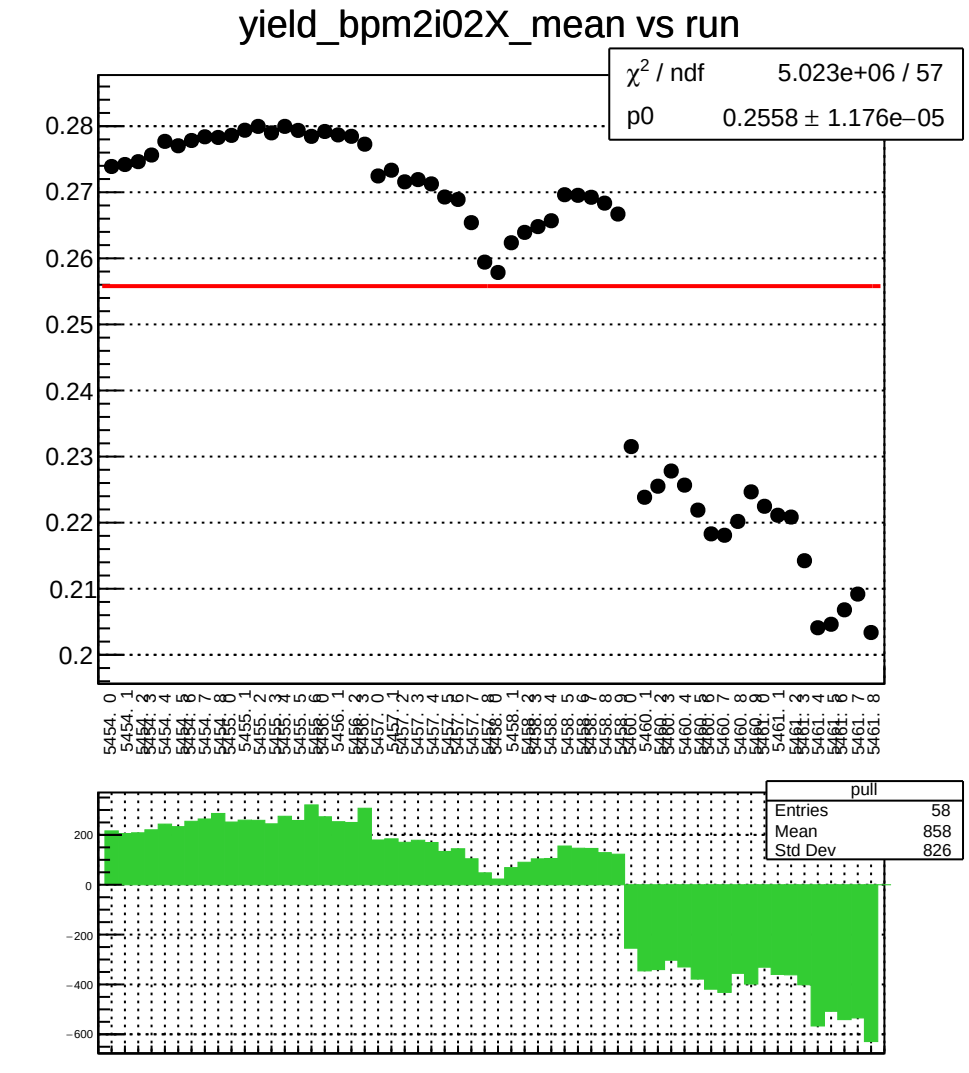

yield_bpm2i01X_mean vs run
χ² / ndf 1.196e+08 / 57
p0 0.1158 ± 1.904e−06
0.14
0.13
0.12
0.11
0.1
0.09
0.08
pull
Entries 58
Mean −3506
Std Dev 3538
2000
1000
0
−1000
−2000
−3000

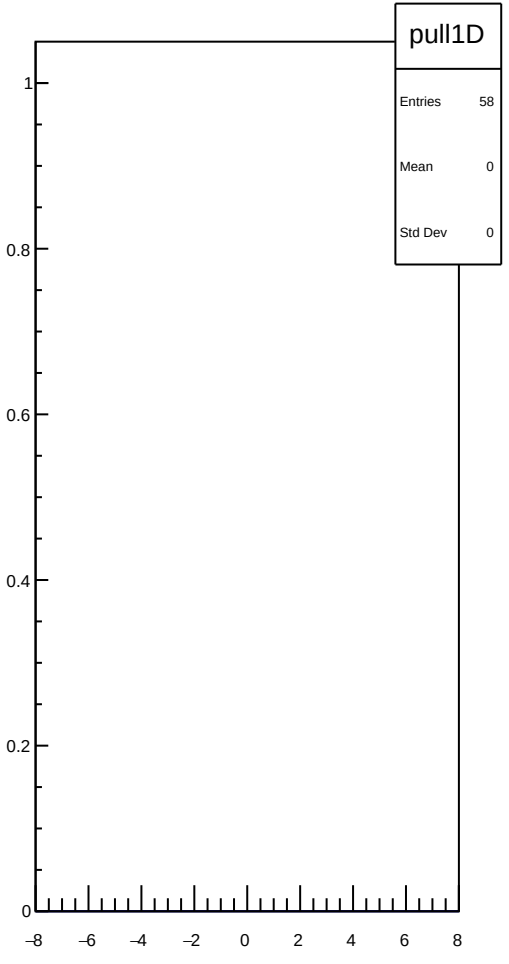

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

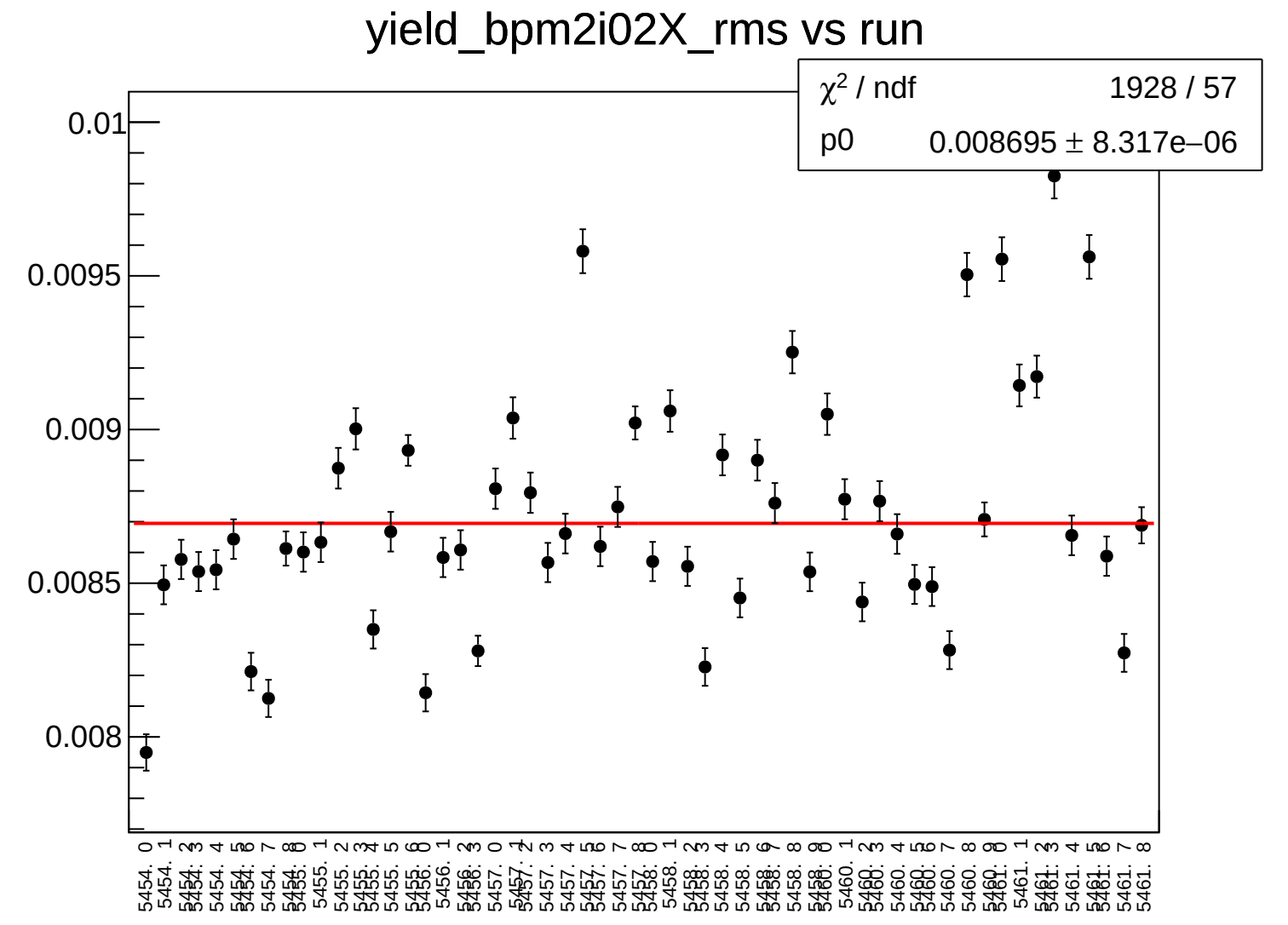

yield_bpm2i01X_rms vs run
χ² / ndf 2.732e+04 / 57
p0 0.001391 ± 1.346e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012

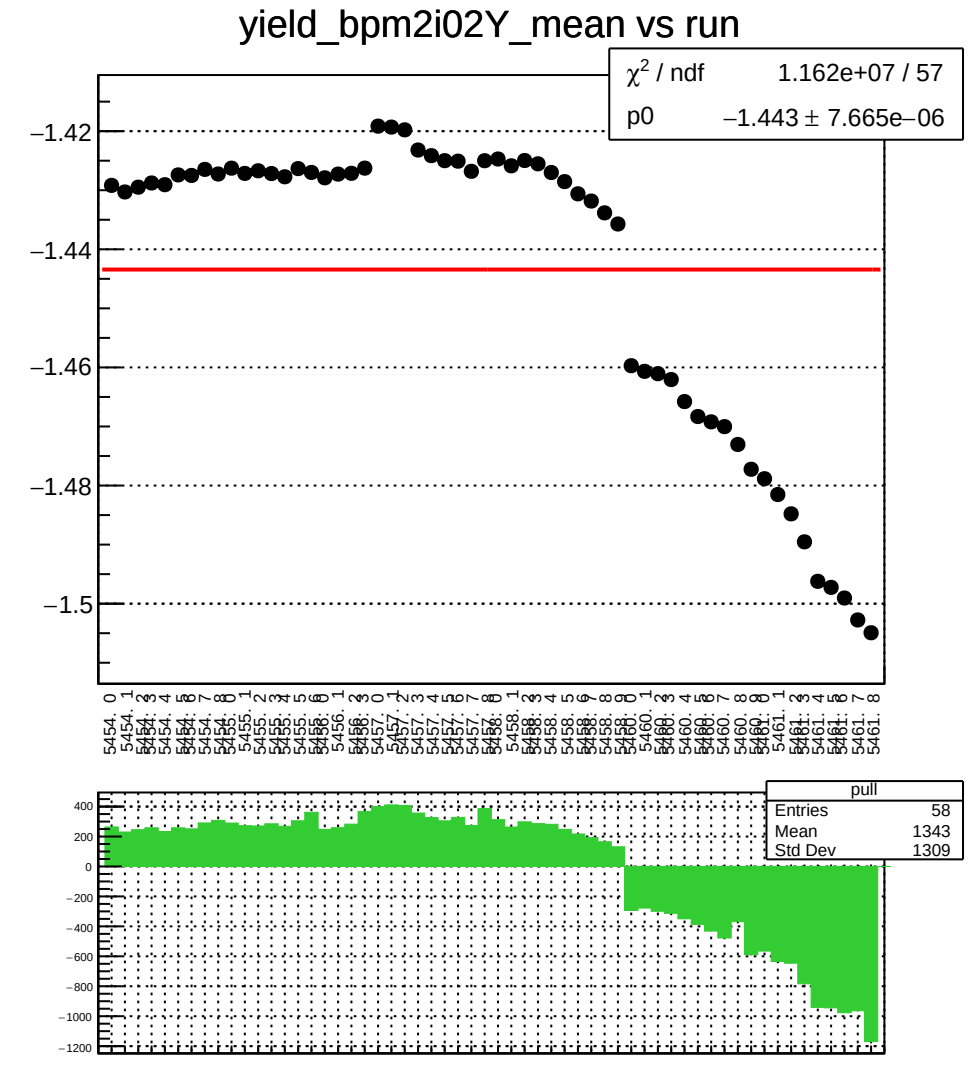

yield_bpm2i01Y_mean vs run
χ² / ndf 3.581e+06 / 57
p0 −4.267 ± 2.69e−06
−4.26
−4.265
−4.27
−4.275
−4.28
pull
Entries 58
Mean 1616
Std Dev 1581
200
0
−200
−400
−600
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

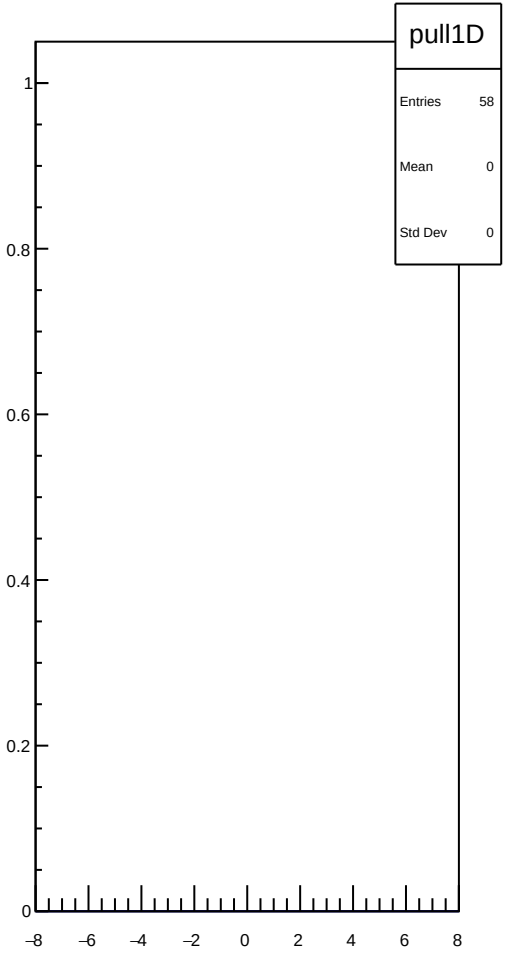

yield_bpm2i01Y_rms vs run
χ² / ndf 2000 / 57
p0 0.001989 ± 1.902e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

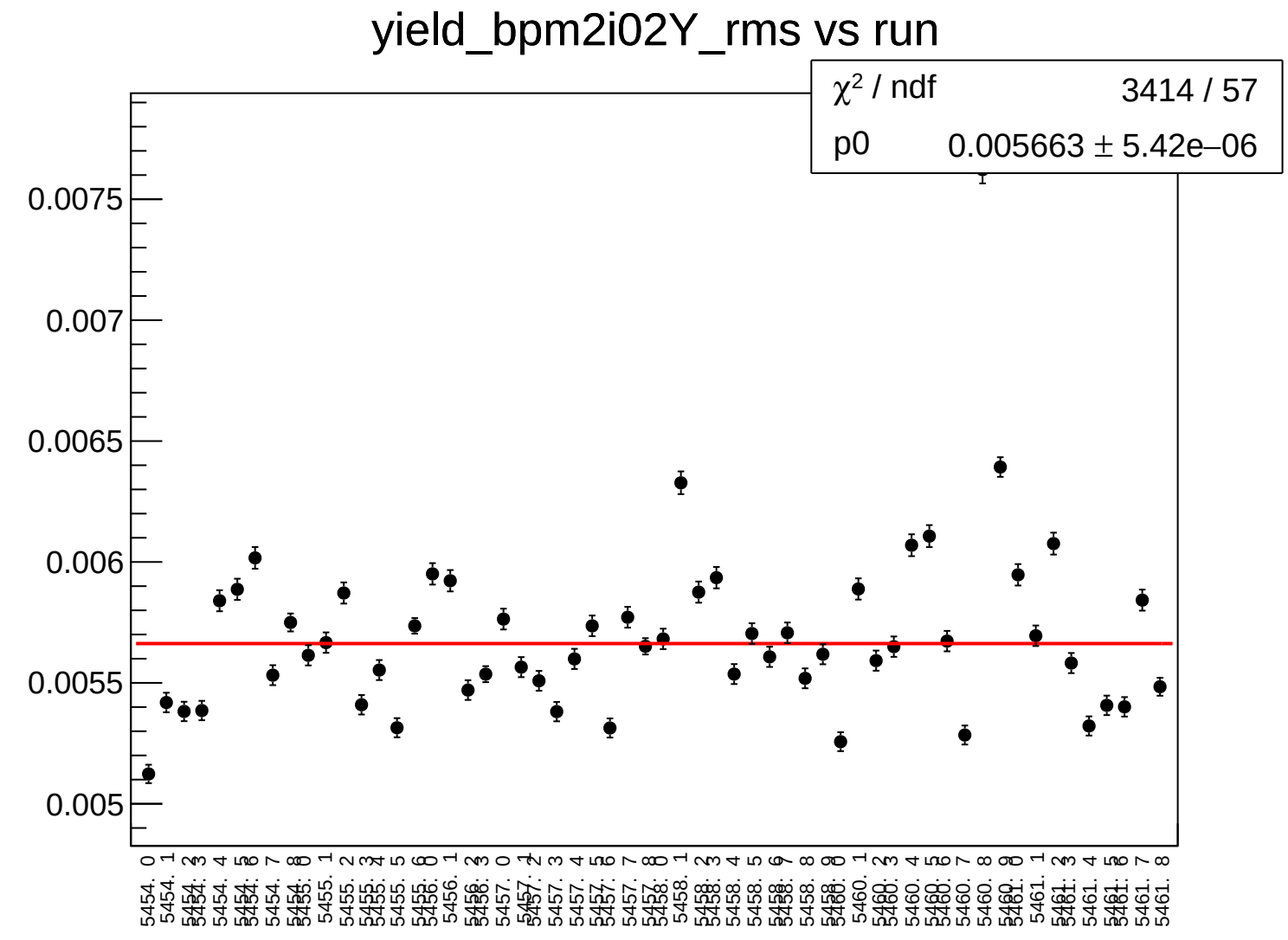

yield_bpm2i02X_mean vs run
χ² / ndf 5.023e+06 / 57
p0 0.2558 ± 1.176e−05
0.28
0.27
0.26
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 58
Mean 858
Std Dev 826
200
0
−200
−400
−600

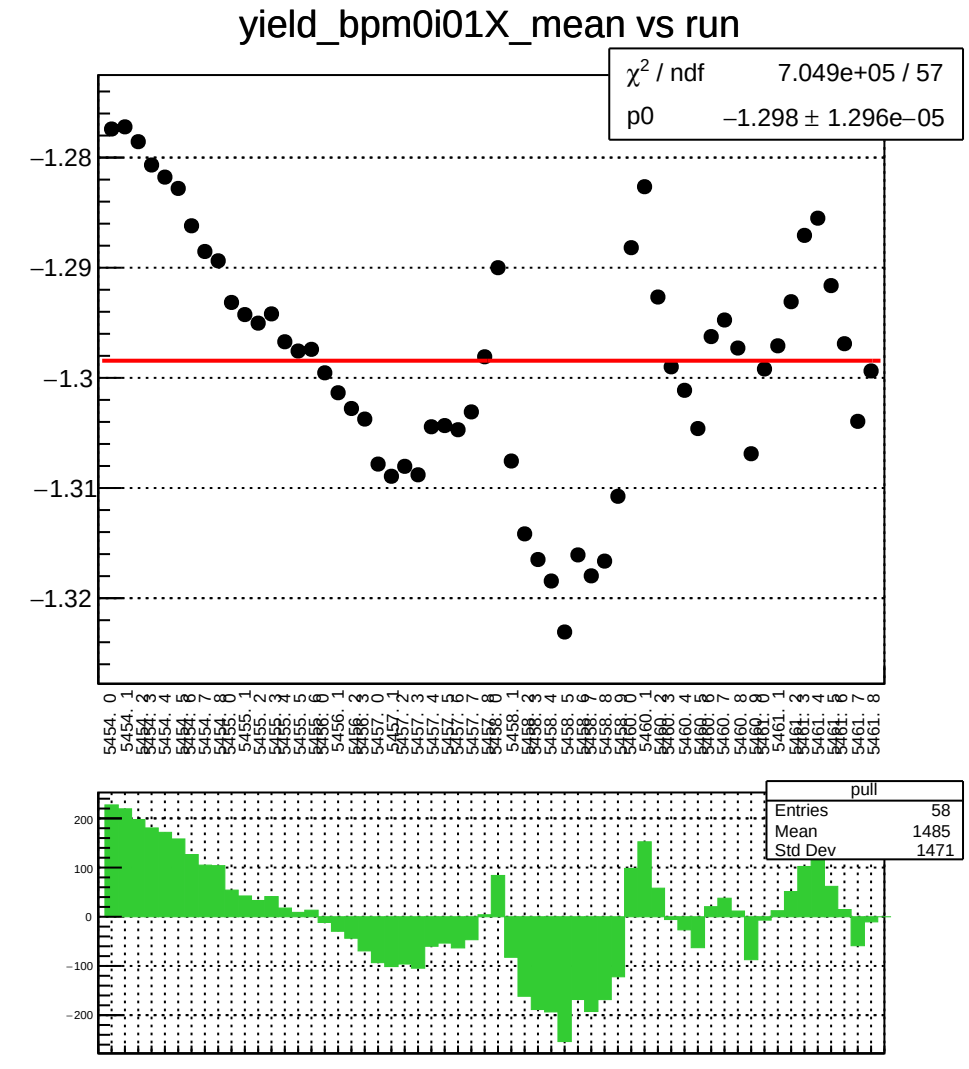

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

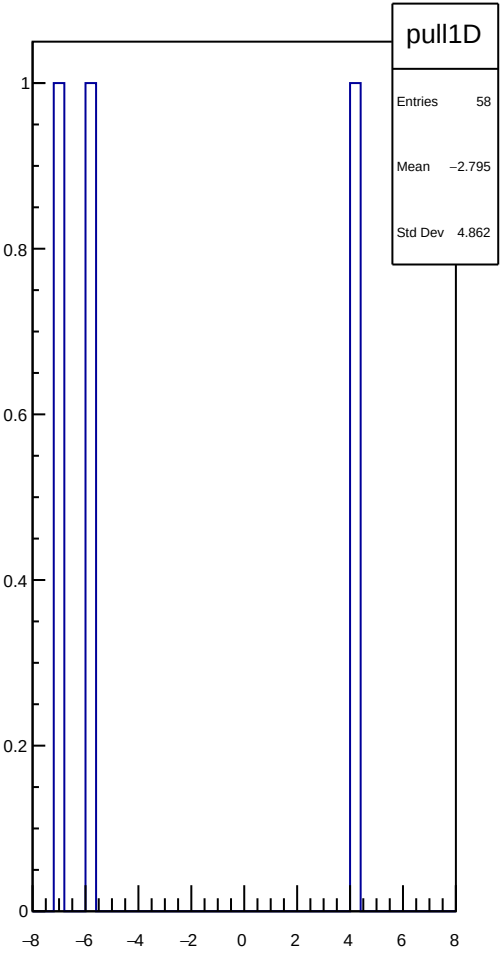

yield_bpm2i02X_rms vs run
χ² / ndf 1928 / 57
p0 0.008695 ± 8.317e−06
0.01
0.0095
0.009
0.0085
0.008

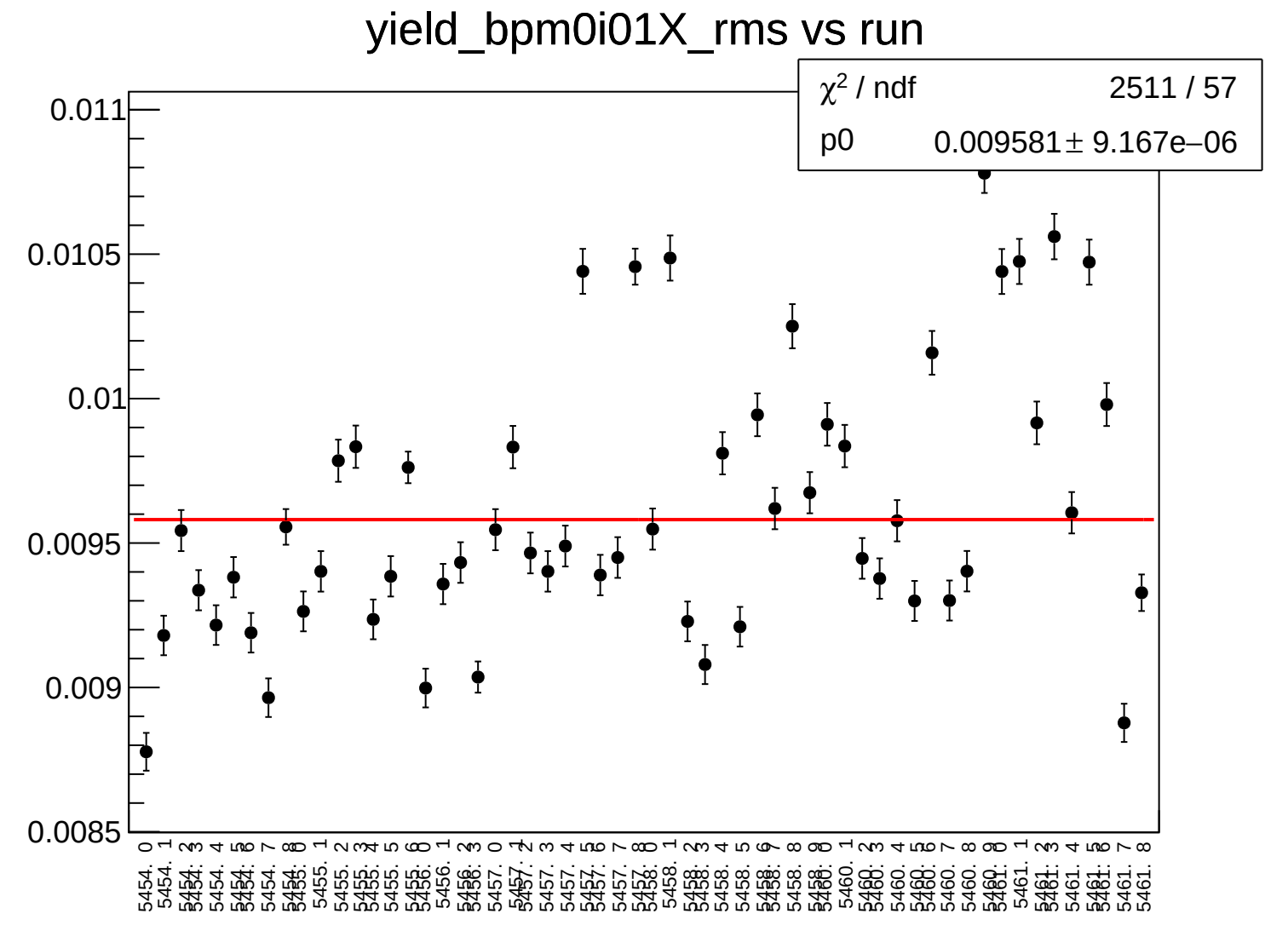

yield_bpm2i02Y_mean vs run
χ² / ndf 1.162e+07 / 57
p0 −1.443 ± 7.665e−06
−1.42
−1.44
−1.46
−1.48
−1.5
pull
Entries 58
Mean 1343
Std Dev 1309
400
200
0
−200
−400
−600
−800
−1000
−1200

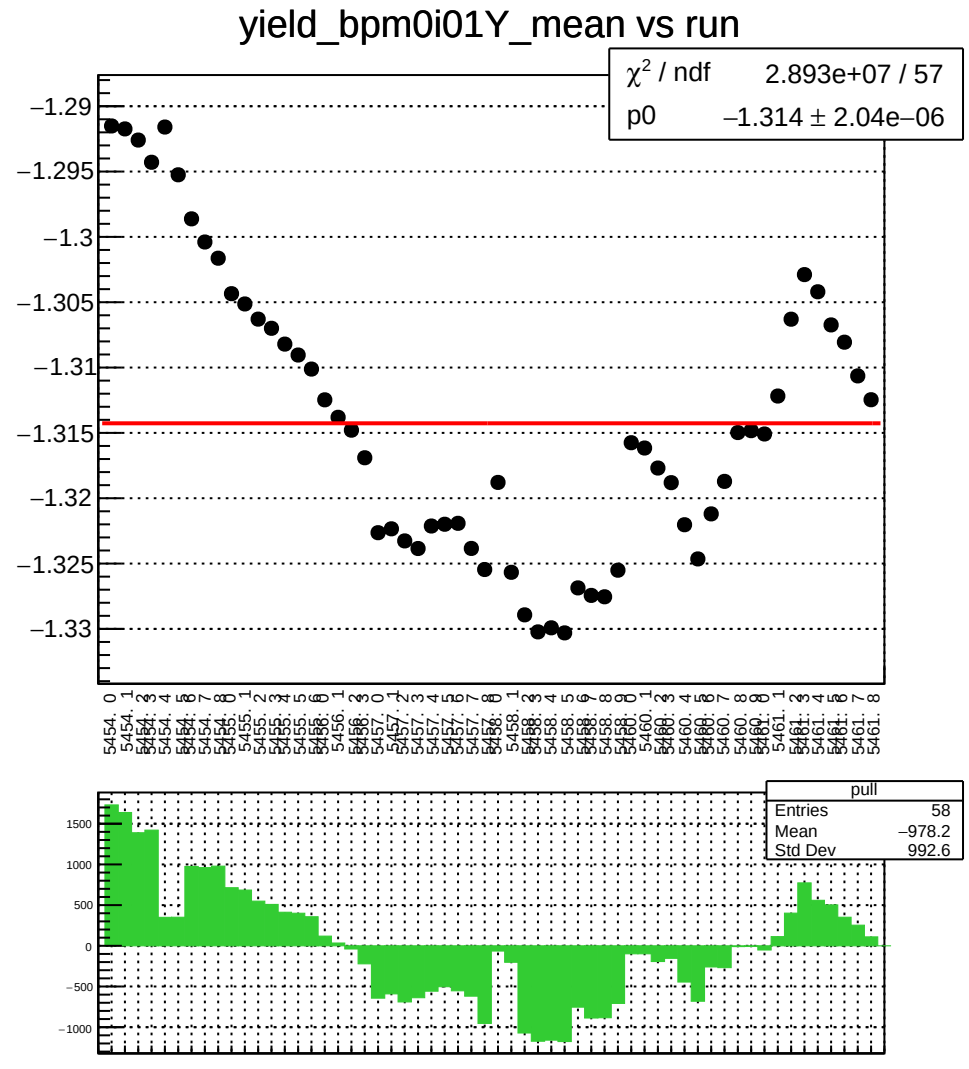

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

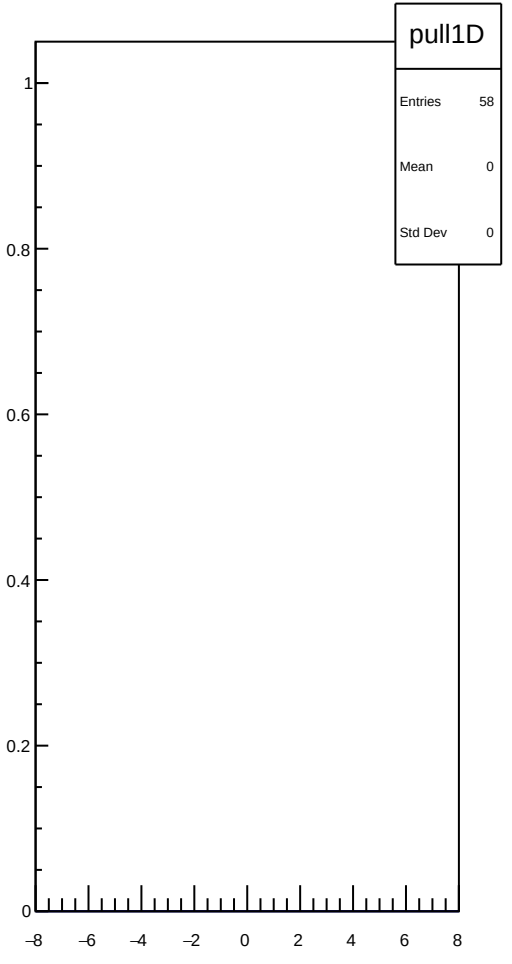

yield_bpm2i02Y_rms vs run
χ² / ndf 3414 / 57
p0 0.005663 ± 5.42e–06
0.0075
0.007
0.0065
0.006
0.0055
0.005

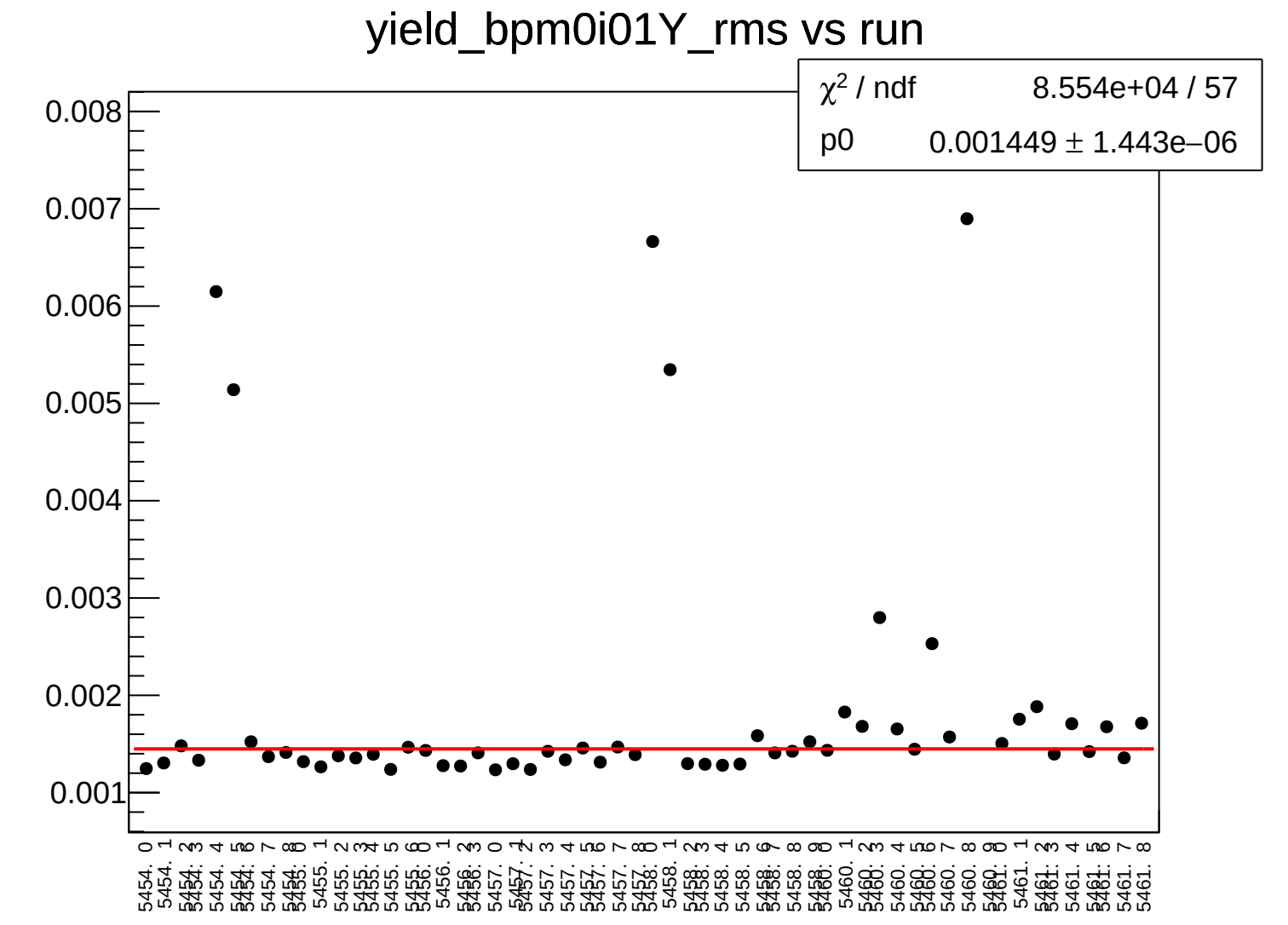

yield_bpm0i01X_mean vs run
χ² / ndf 7.049e+05 / 57
p0 −1.298 ± 1.296e−05
−1.28
−1.29
−1.3
−1.31
−1.32
pull
Entries 58
Mean 1485
Std Dev 1471
200
100
0
−100
−200

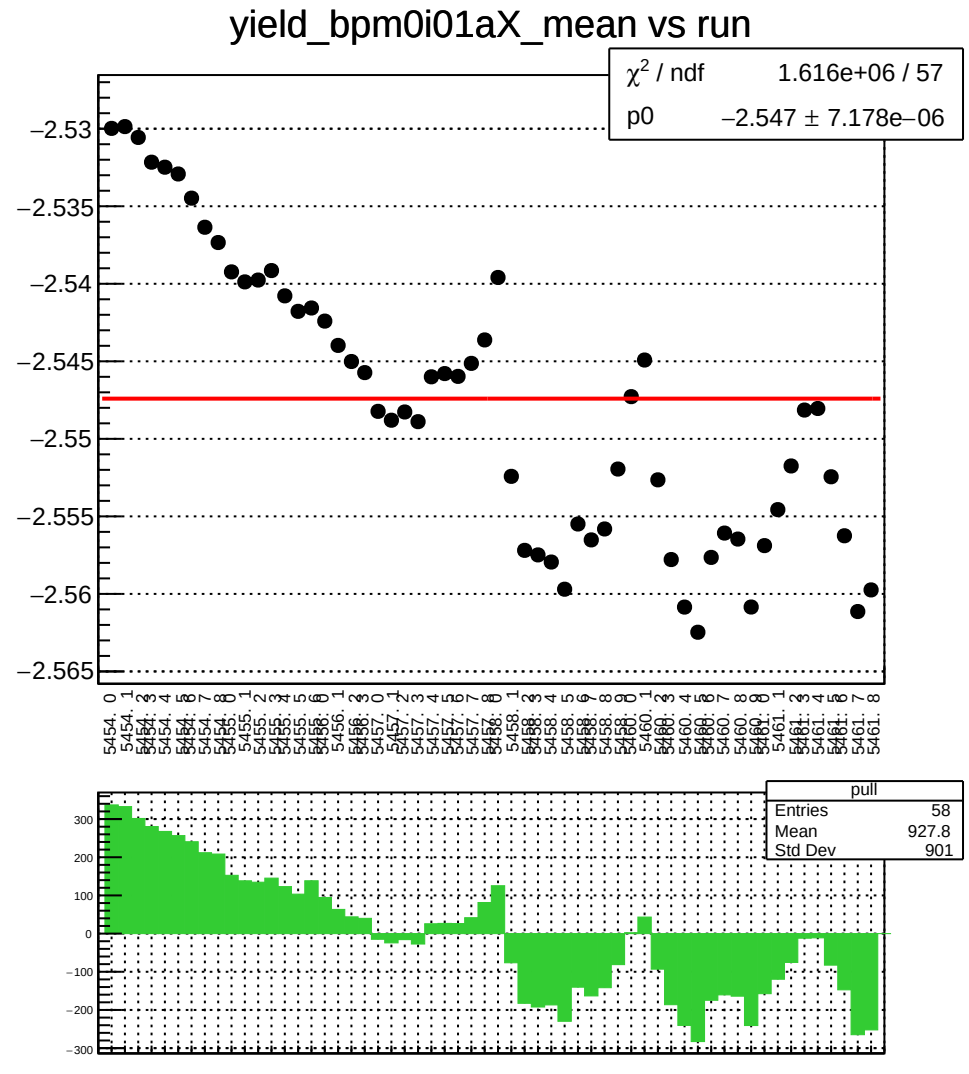

pull1D
Entries 58
Mean −2.795
Std Dev 4.862
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

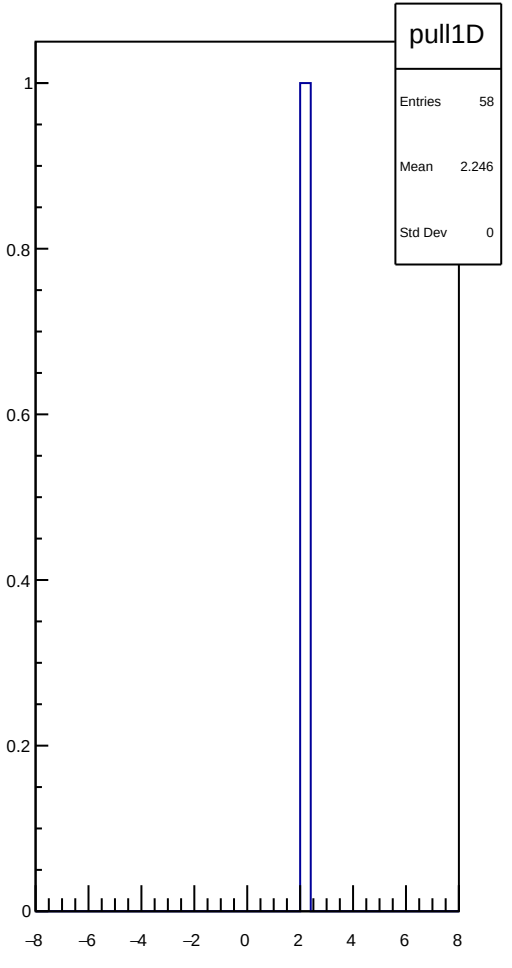

yield_bpm0i01X_rms vs run
χ² / ndf 2511 / 57
p0 0.009581 ± 9.167e−06
0.011
0.0105
0.01
0.0095
0.009
0.0085

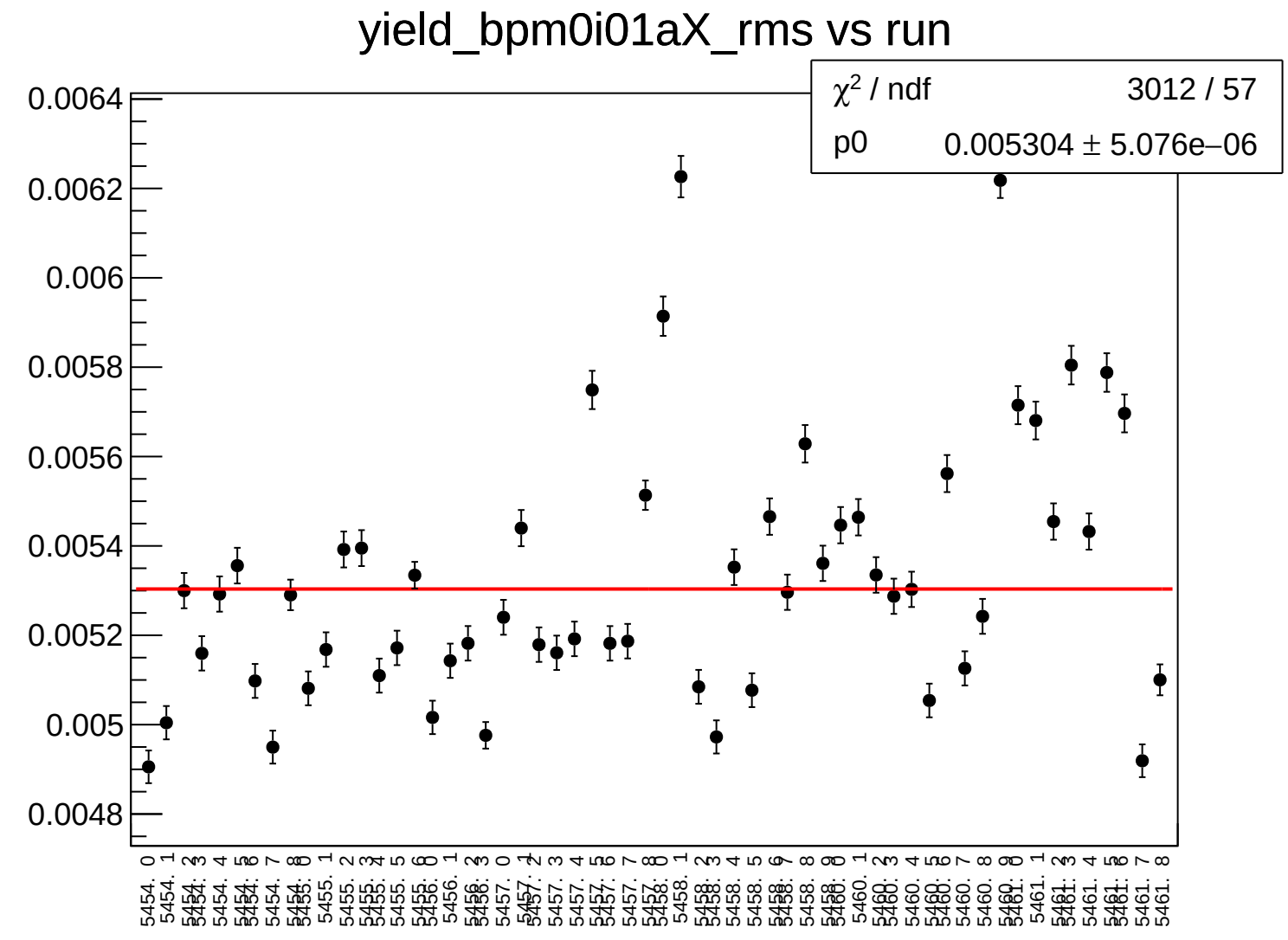

yield_bpm0i01Y_mean vs run
χ² / ndf 2.893e+07 / 57
p0 −1.314 ± 2.04e−06
−1.29
−1.295
−1.3
−1.305
−1.31
−1.315
−1.32
−1.325
−1.33
pull
Entries 58
Mean −978.2
Std Dev 992.6
1500
1000
500
0
−500
−1000

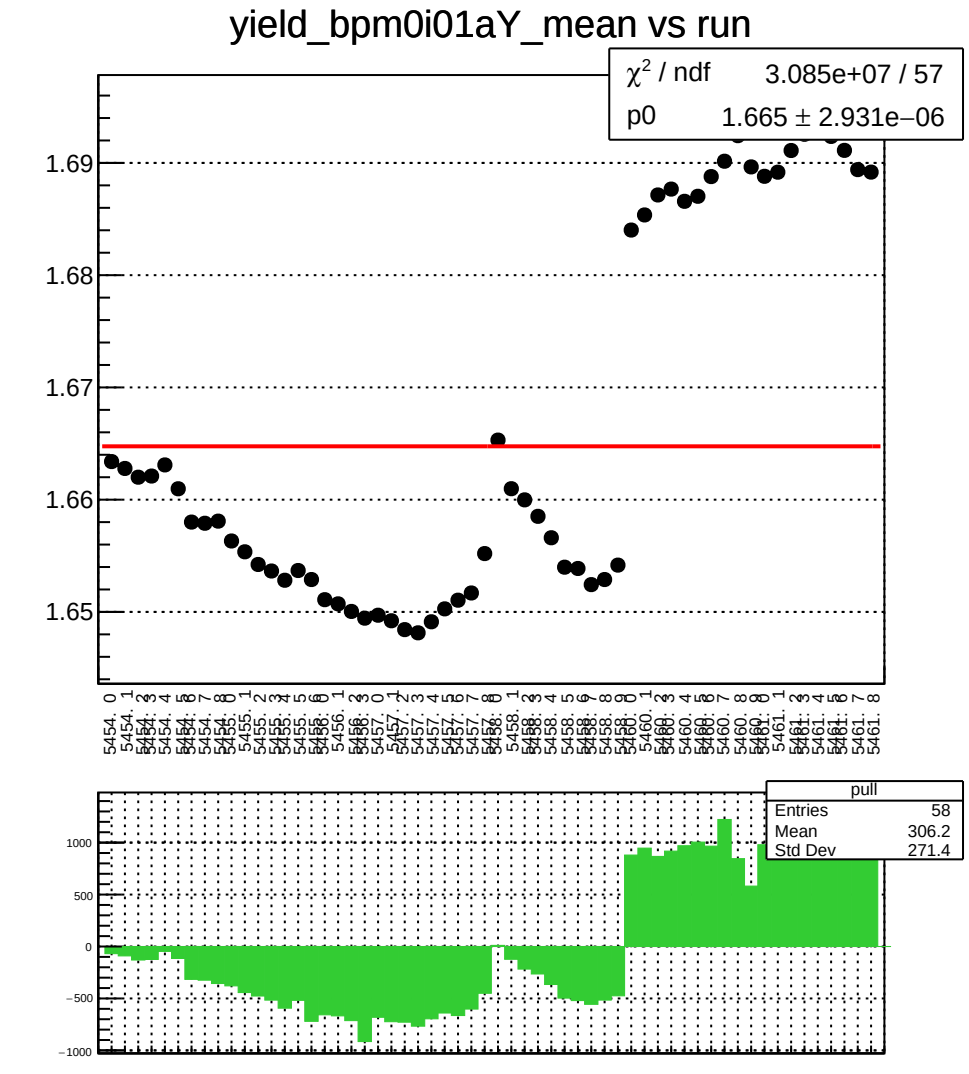

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

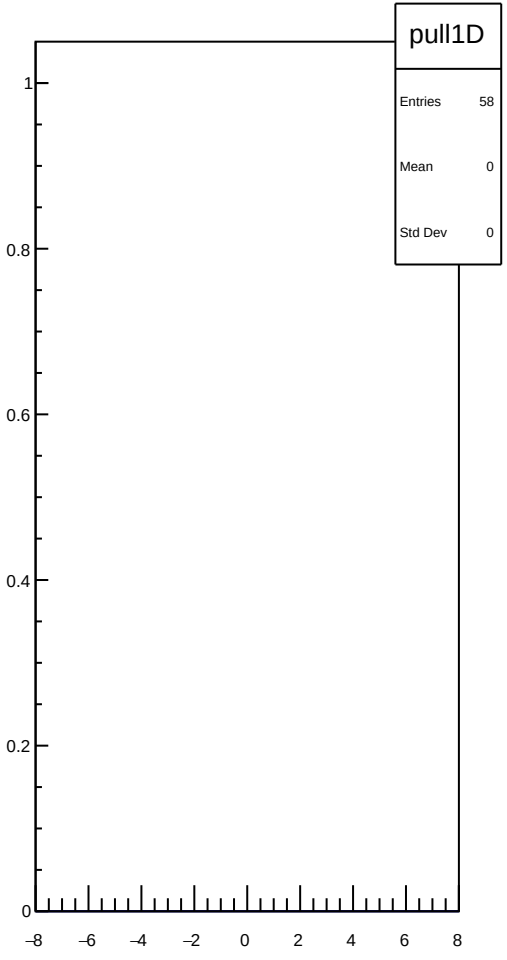

yield_bpm0i01Y_rms vs run
χ² / ndf 8.554e+04 / 57
p0 0.001449 ± 1.443e−06
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

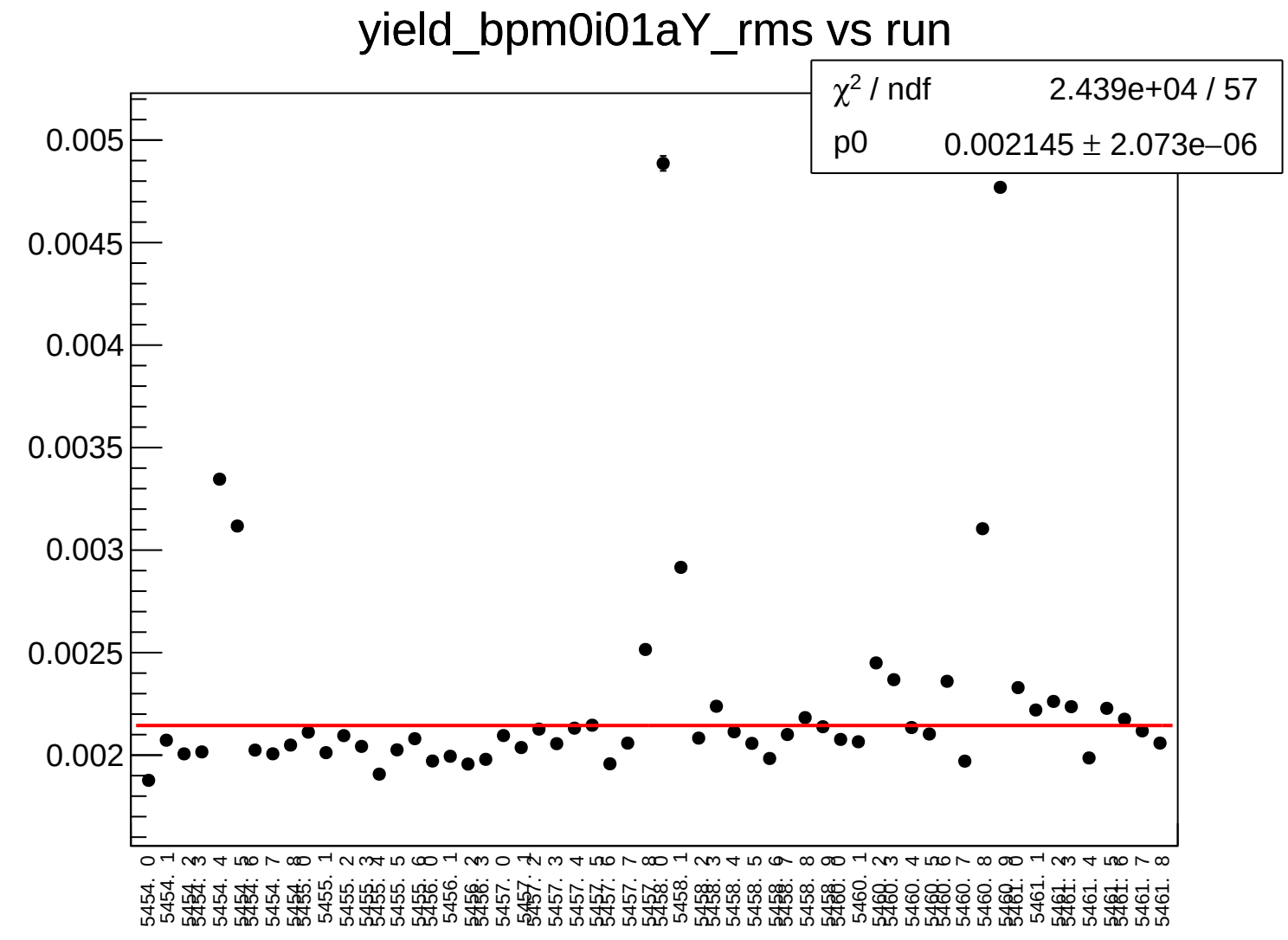

yield_bpm0i01aX_mean vs run
χ² / ndf 1.616e+06 / 57
p0 −2.547 ± 7.178e−06
−2.53
−2.535
−2.54
−2.545
−2.55
−2.555
−2.56
−2.565
pull
Entries 58
Mean 927.8
Std Dev 901
300
200
100
0
−100
−200
−300

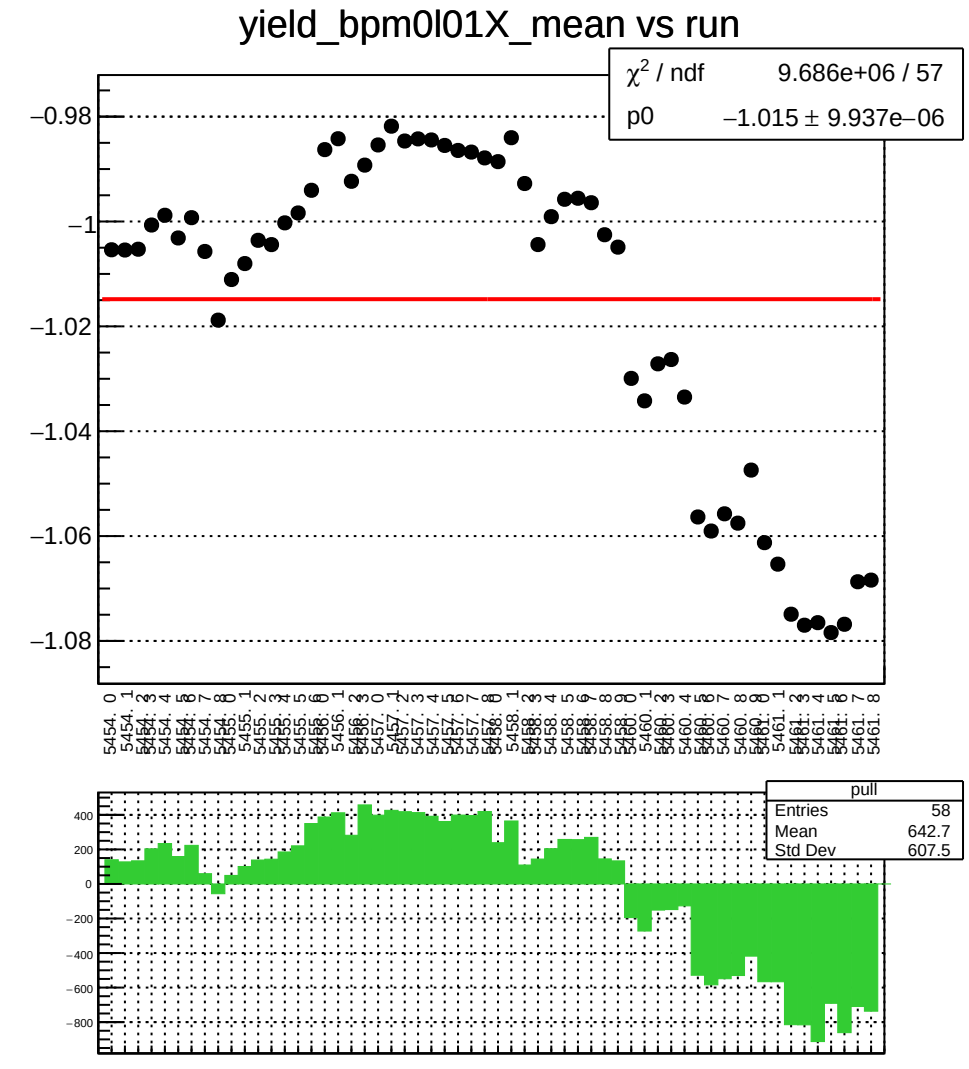

pull1D
Entries 58
Mean 2.246
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

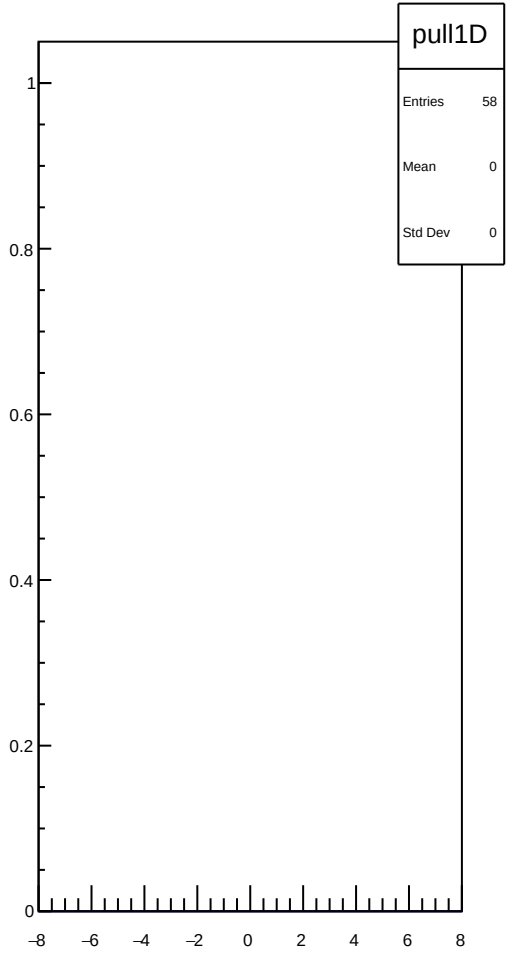

yield_bpm0i01aX_rms vs run
χ² / ndf 3012 / 57
p0 0.005304 ± 5.076e−06
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048

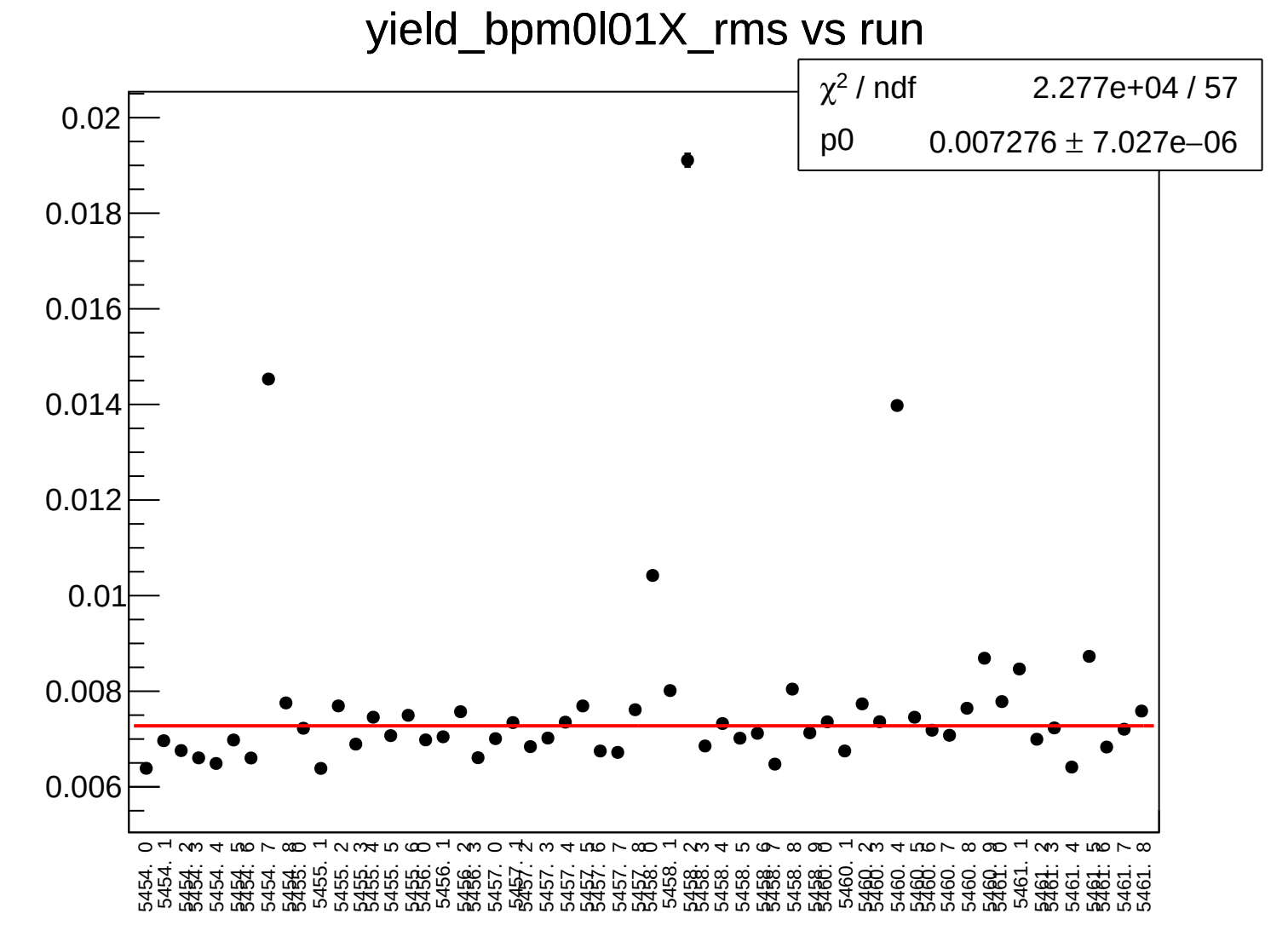

yield_bpm0i01aY_mean vs run
χ² / ndf 3.085e+07 / 57
p0 1.665 ± 2.931e−06
1.69
1.68
1.67
1.66
1.65
pull
Entries 58
Mean 306.2
Std Dev 271.4
1000
500
0
−500
−1000

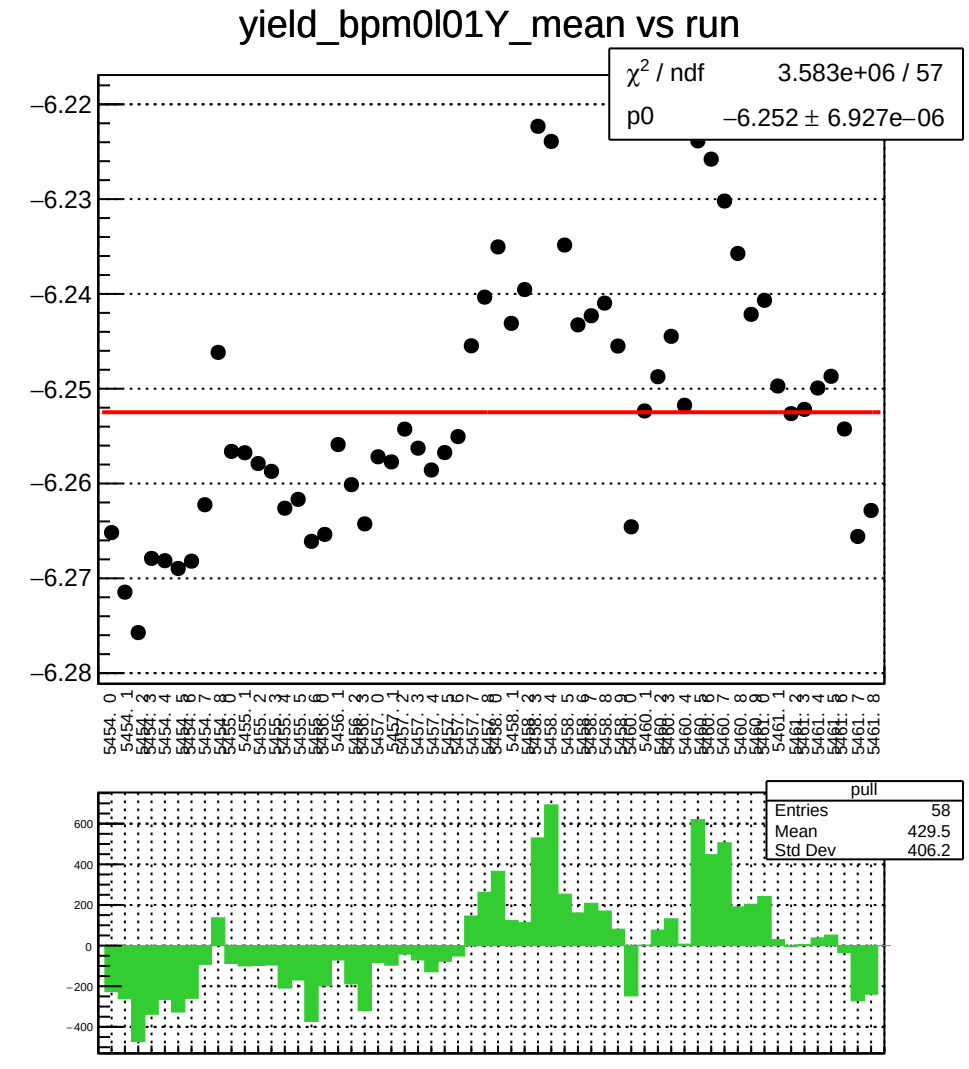

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

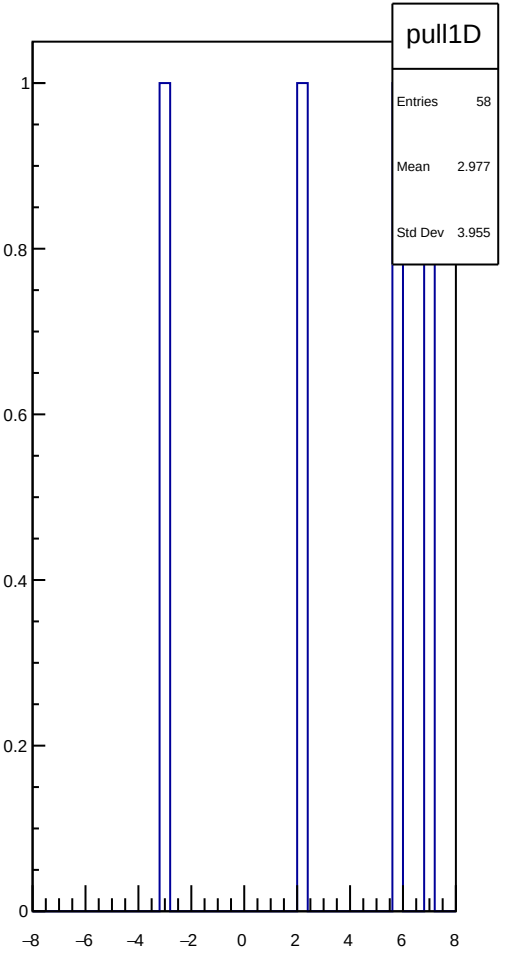

yield_bpm0i01aY_rms vs run
χ² / ndf 2.439e+04 / 57
p0 0.002145 ± 2.073e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

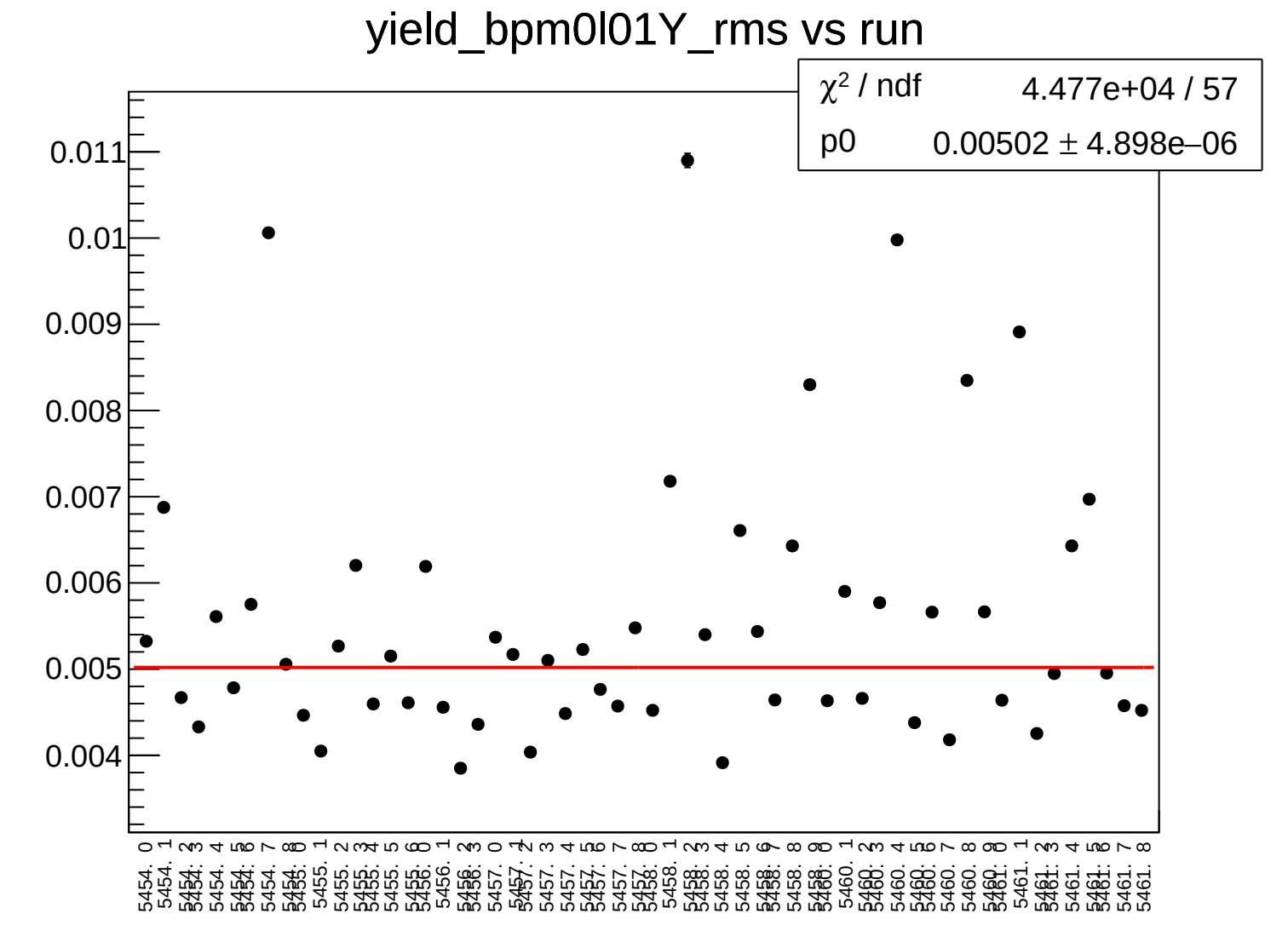

yield_bpm0l01X_mean vs run
χ² / ndf 9.686e+06 / 57
p0 −1.015 ± 9.937e−06
−0.98
−1
−1.02
−1.04
−1.06
−1.08
pull
Entries 58
Mean 642.7
Std Dev 607.5
400
200
0
−200
−400
−600
−800

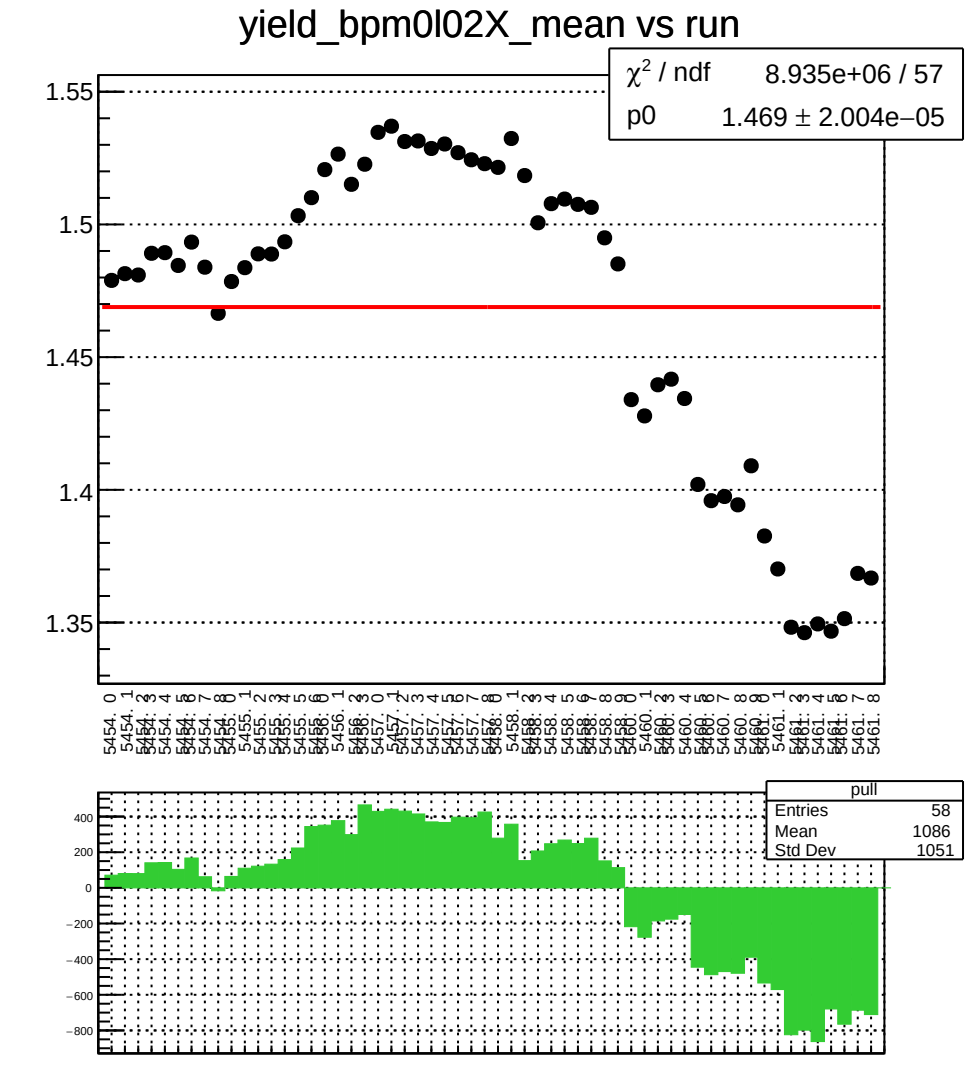

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

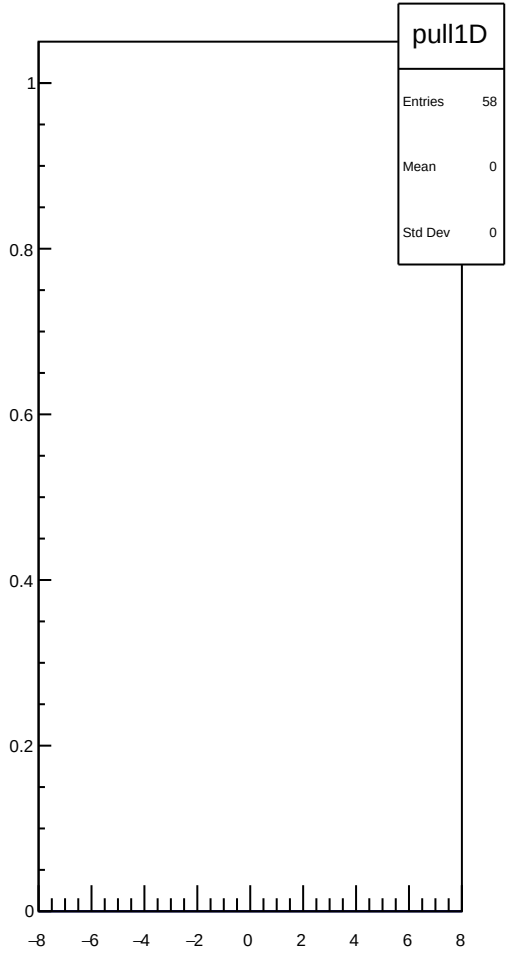

yield_bpm0l01X_rms vs run
χ² / ndf 2.277e+04 / 57
p0 0.007276 ± 7.027e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

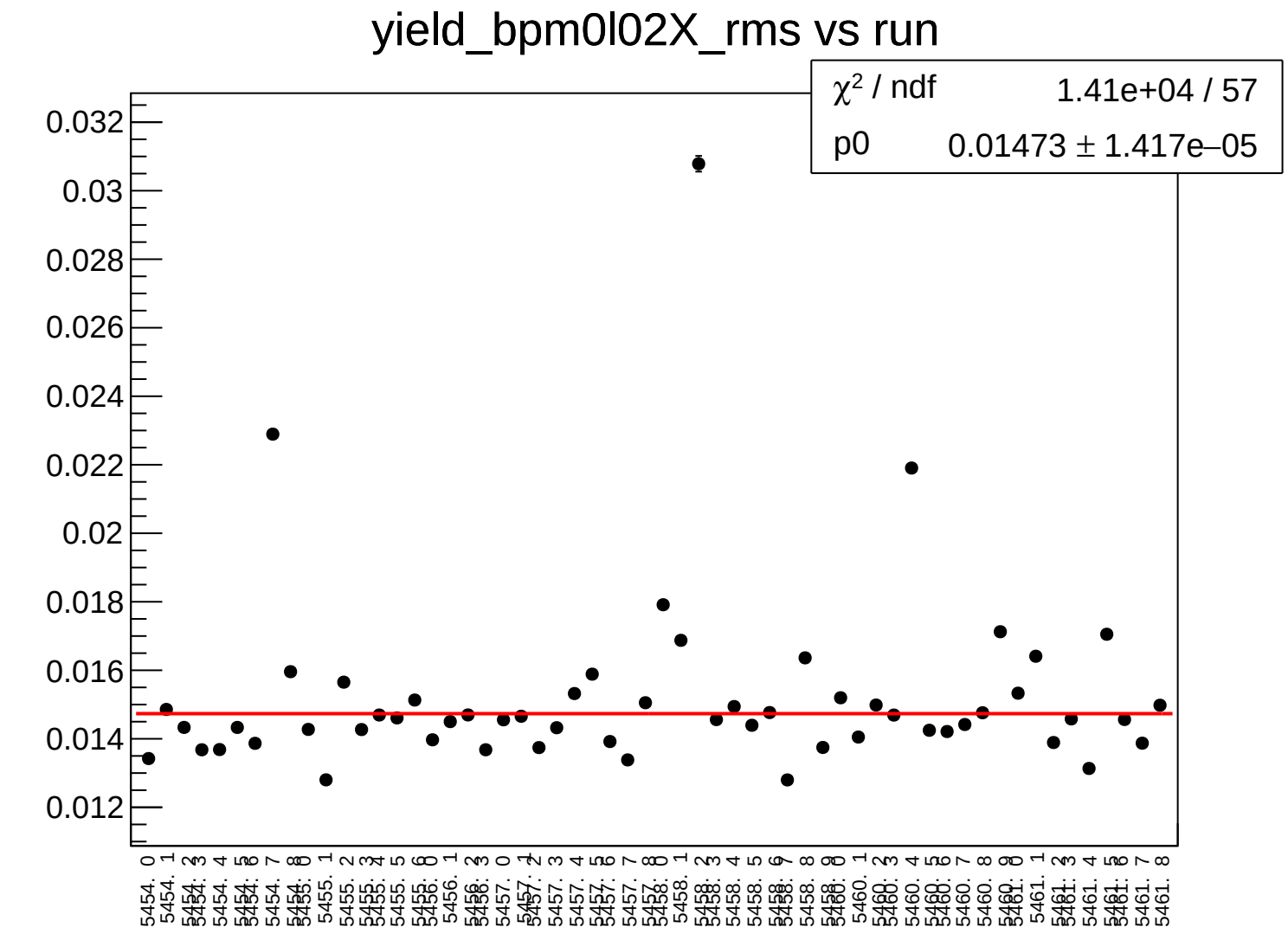

yield_bpm0l01Y_mean vs run
χ² / ndf 3.583e+06 / 57
p0 −6.252 ± 6.927e−06
−6.22
−6.23
−6.24
−6.25
−6.26
−6.27
−6.28
pull
Entries 58
Mean 429.5
Std Dev 406.2
600
400
200
0
−200
−400

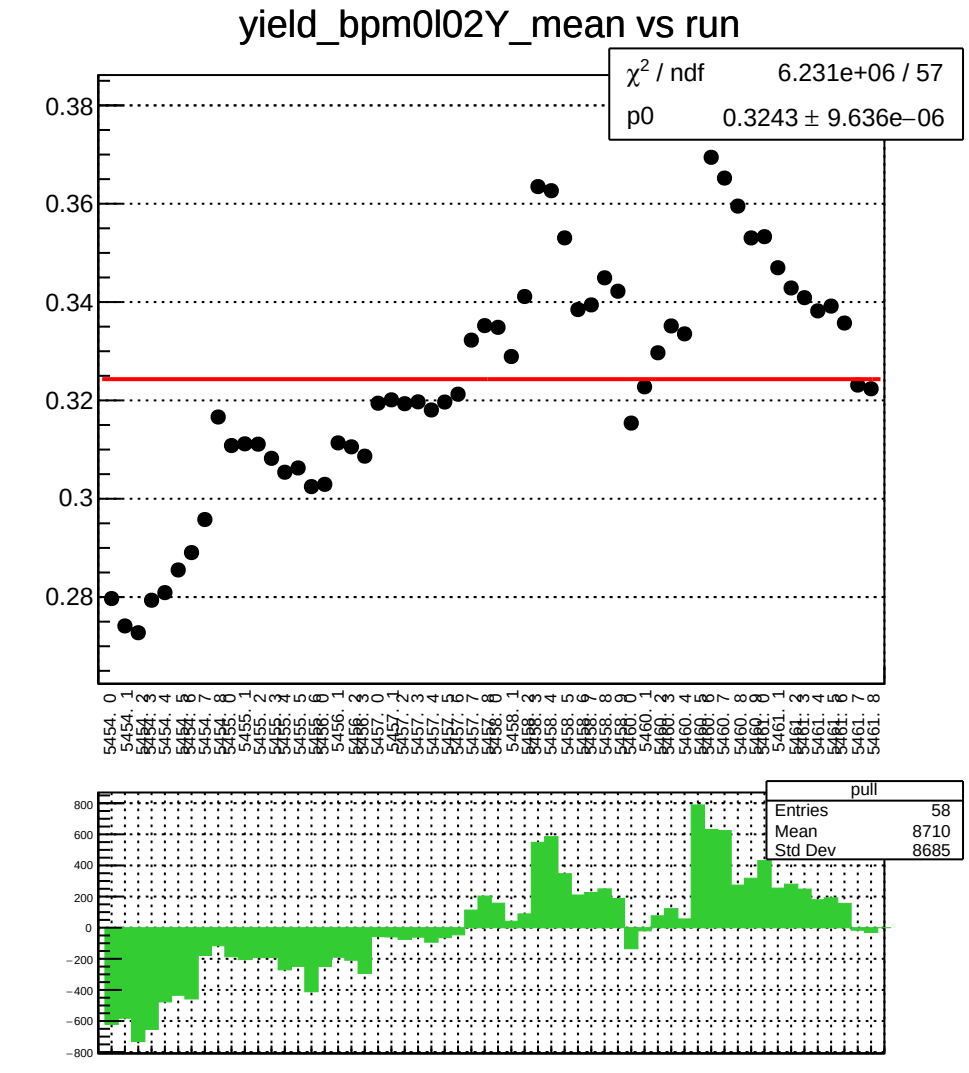

pull1D
Entries 58
Mean 2.977
Std Dev 3.955
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

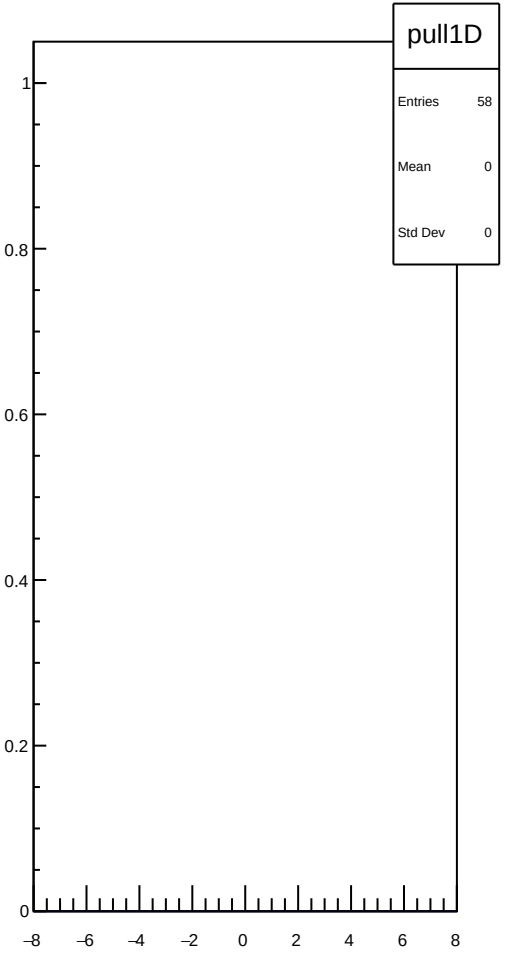

yield_bpm0l01Y_rms vs run
χ² / ndf 4.477e+04 / 57
p0 0.00502 ± 4.898e–06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

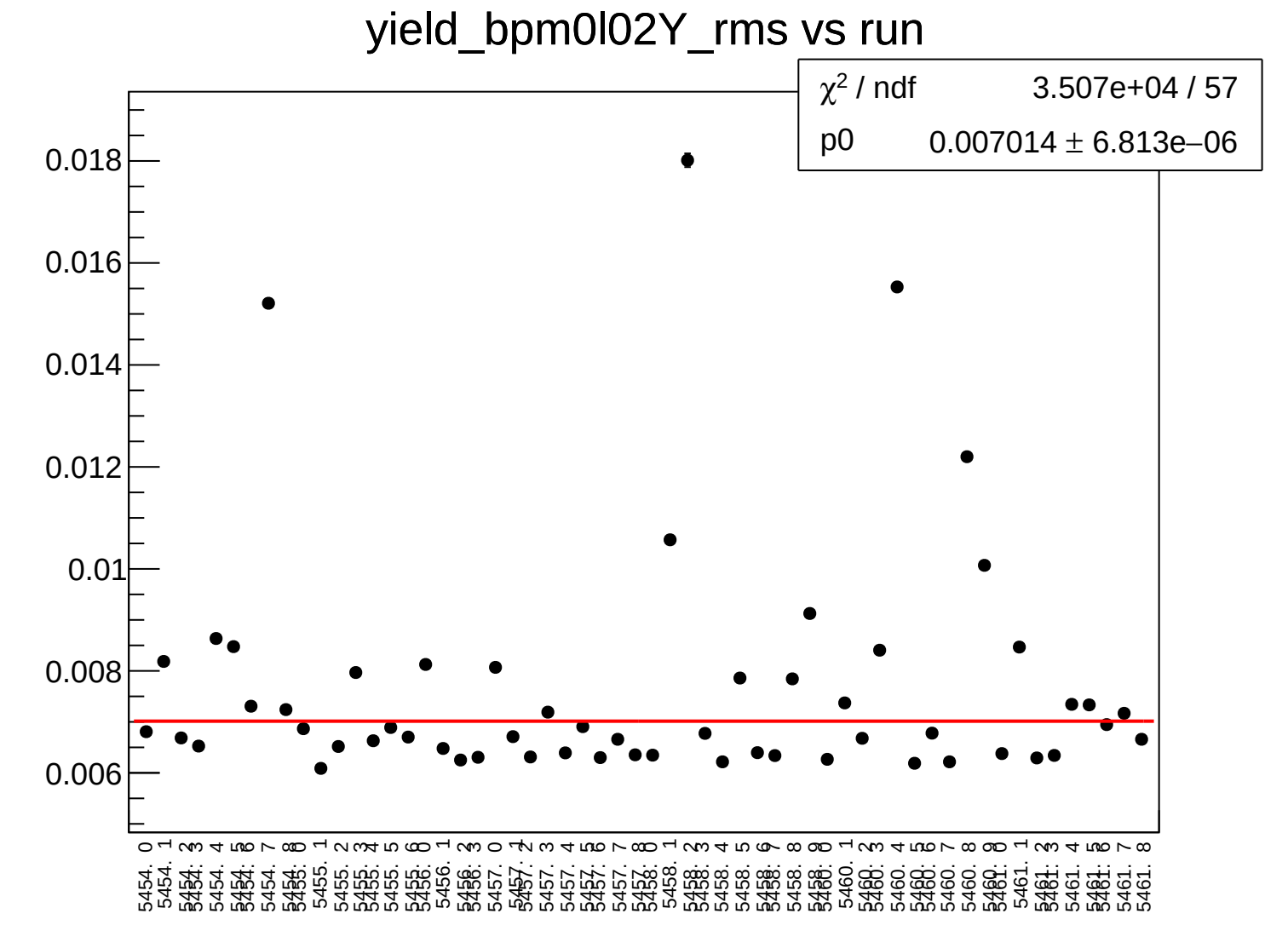

yield_bpm0l02X_mean vs run
χ² / ndf 8.935e+06 / 57
p0 1.469 ± 2.004e−05
1.55
1.5
1.45
1.4
1.35
pull
Entries 58
Mean 1086
Std Dev 1051
400
200
0
−200
−400
−600
−800

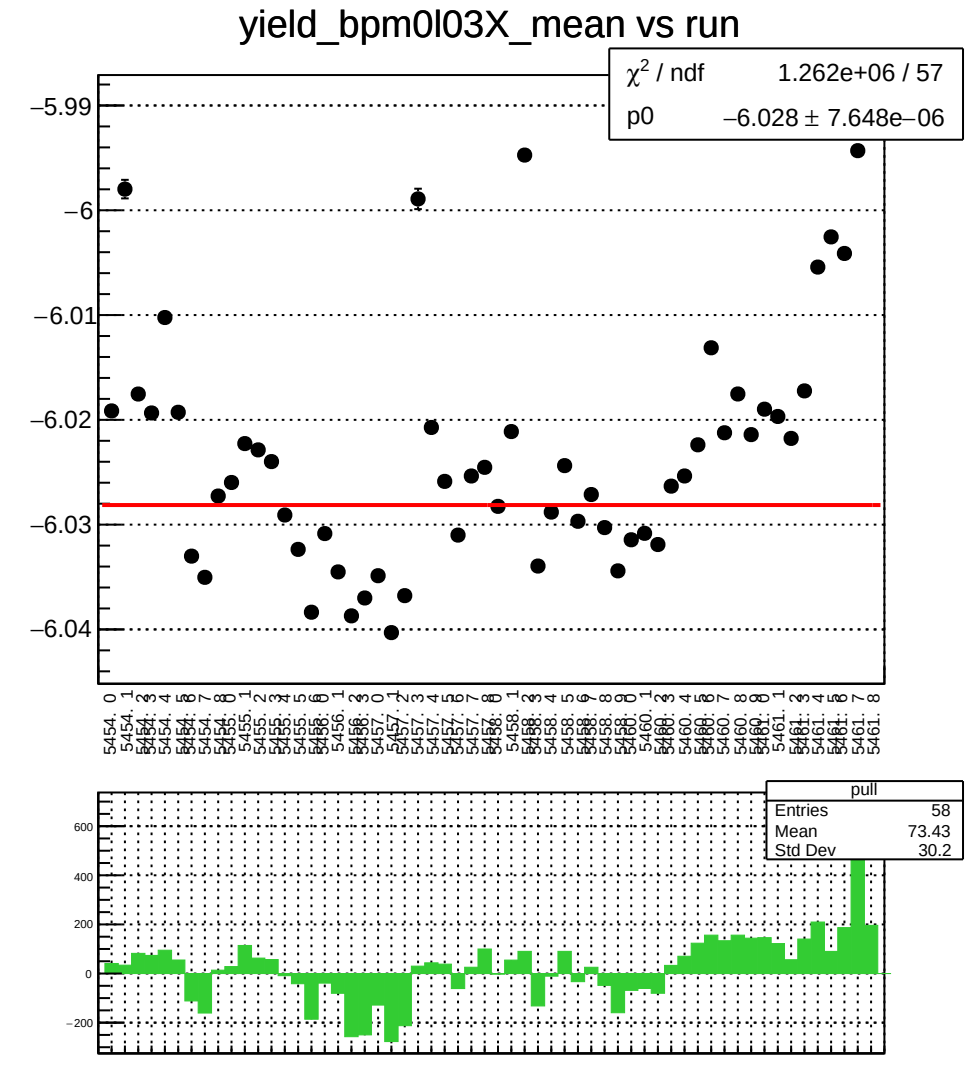

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

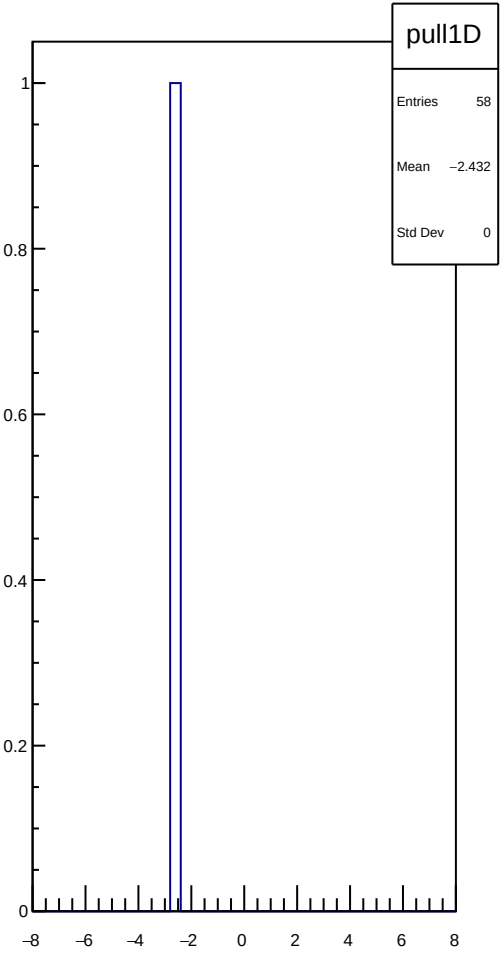

yield_bpm0l02X_rms vs run
χ² / ndf 1.41e+04 / 57
p0 0.01473 ± 1.417e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
5454. 0
5454. 1
5454. 2
5454. 3
5454. 4
5454. 5
5454. 6
5454. 7
5454. 8
5455. 0
5455. 1
5455. 2
5455. 3
5455. 4
5455. 5
5455. 6
5456. 0
5456. 1
5456. 2
5456. 3
5457. 0
5457. 1
5457. 2
5457. 3
5457. 4
5457. 5
5457. 6
5457. 7
5457. 8
5458. 0
5458. 1
5458. 2
5458. 3
5458. 4
5458. 5
5458. 6
5458. 7
5458. 8
5458. 9
5460. 0
5460. 1
5460. 2
5460. 3
5460. 4
5460. 5
5460. 6
5460. 7
5460. 8
5460. 9
5461. 0
5461. 1
5461. 2
5461. 3
5461. 4
5461. 5
5461. 6
5461. 7
5461. 8

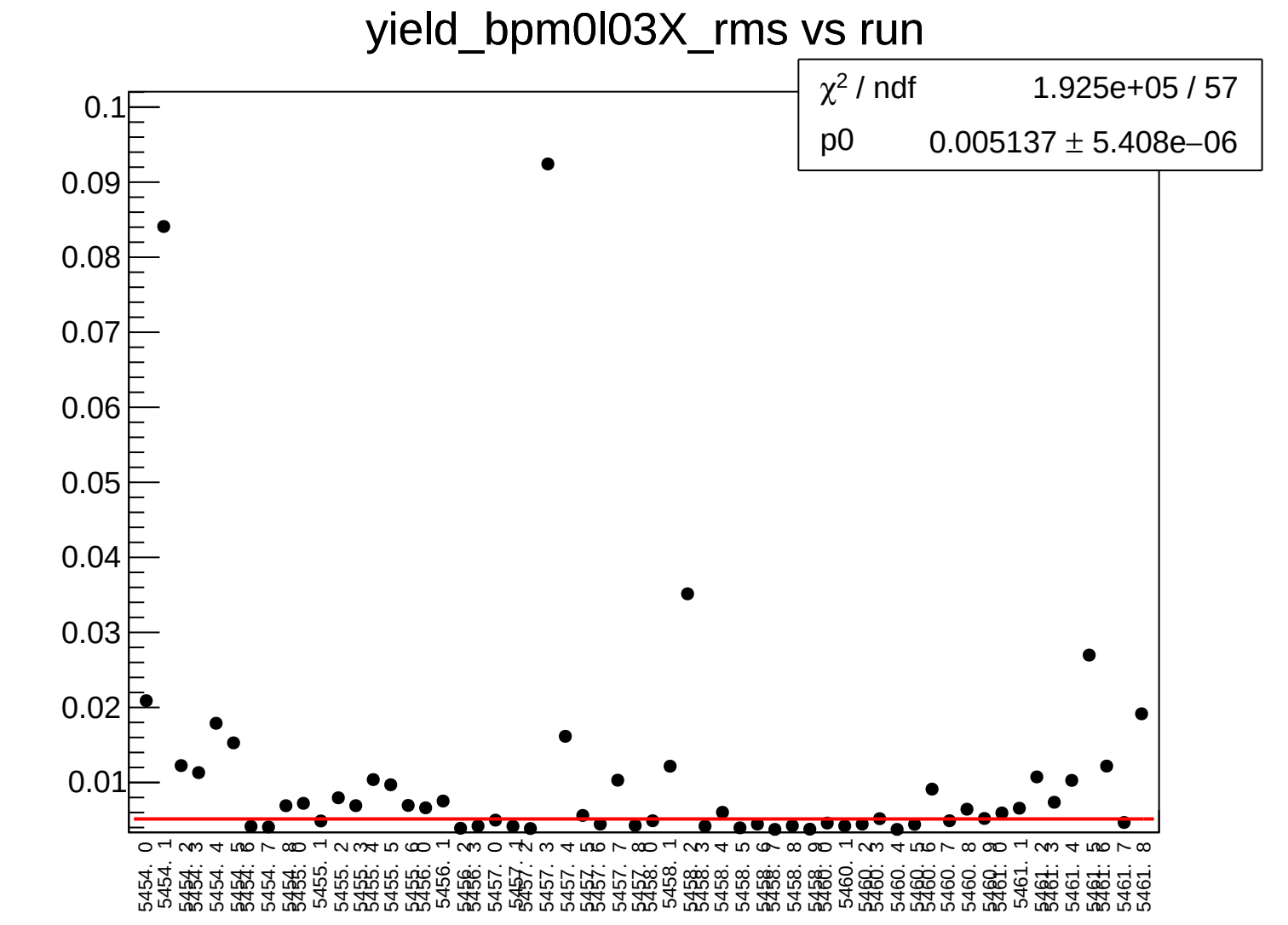

yield_bpm0l02Y_mean vs run
χ² / ndf 6.231e+06 / 57
p0 0.3243 ± 9.636e−06
0.38
0.36
0.34
0.32
0.3
0.28
pull
Entries 58
Mean 8710
Std Dev 8685
800
600
400
200
0
−200
−400
−600
−800

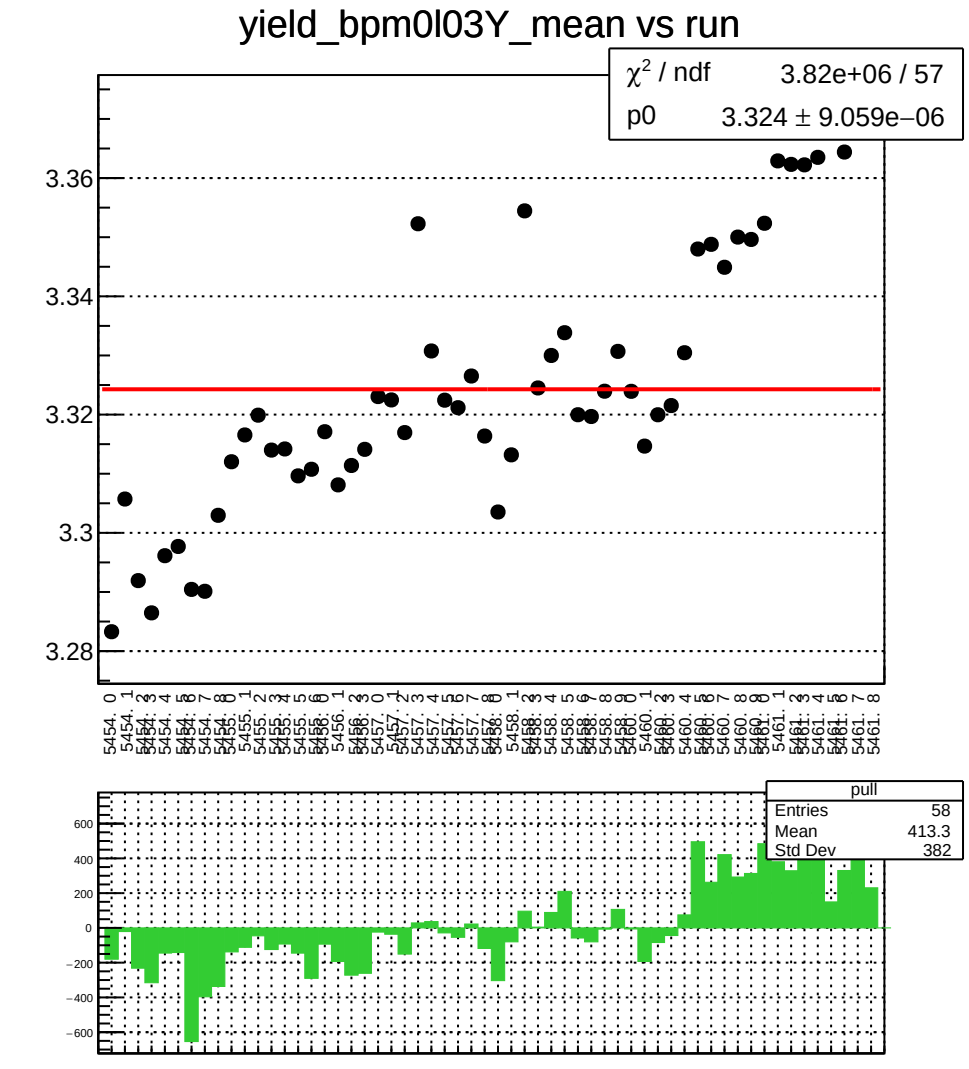

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

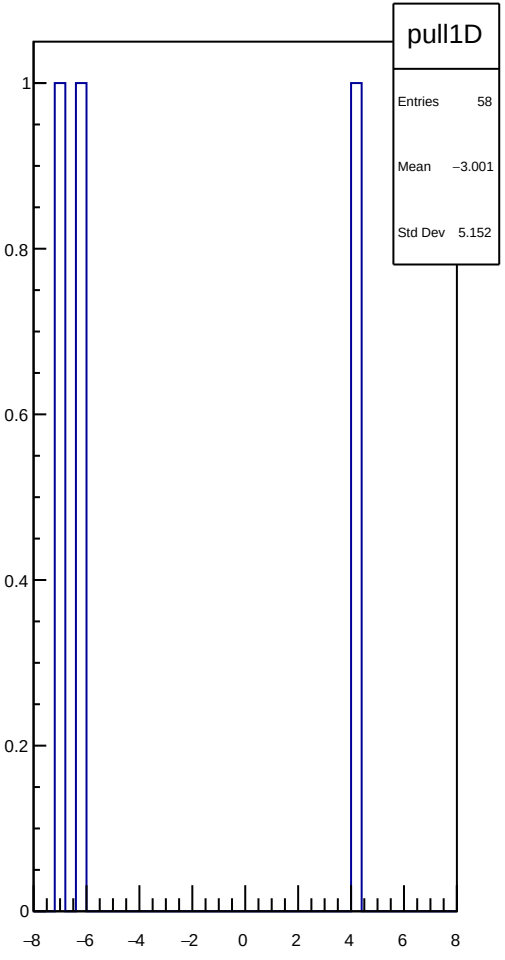

yield_bpm0l02Y_rms vs run
χ² / ndf 3.507e+04 / 57
p0 0.007014 ± 6.813e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

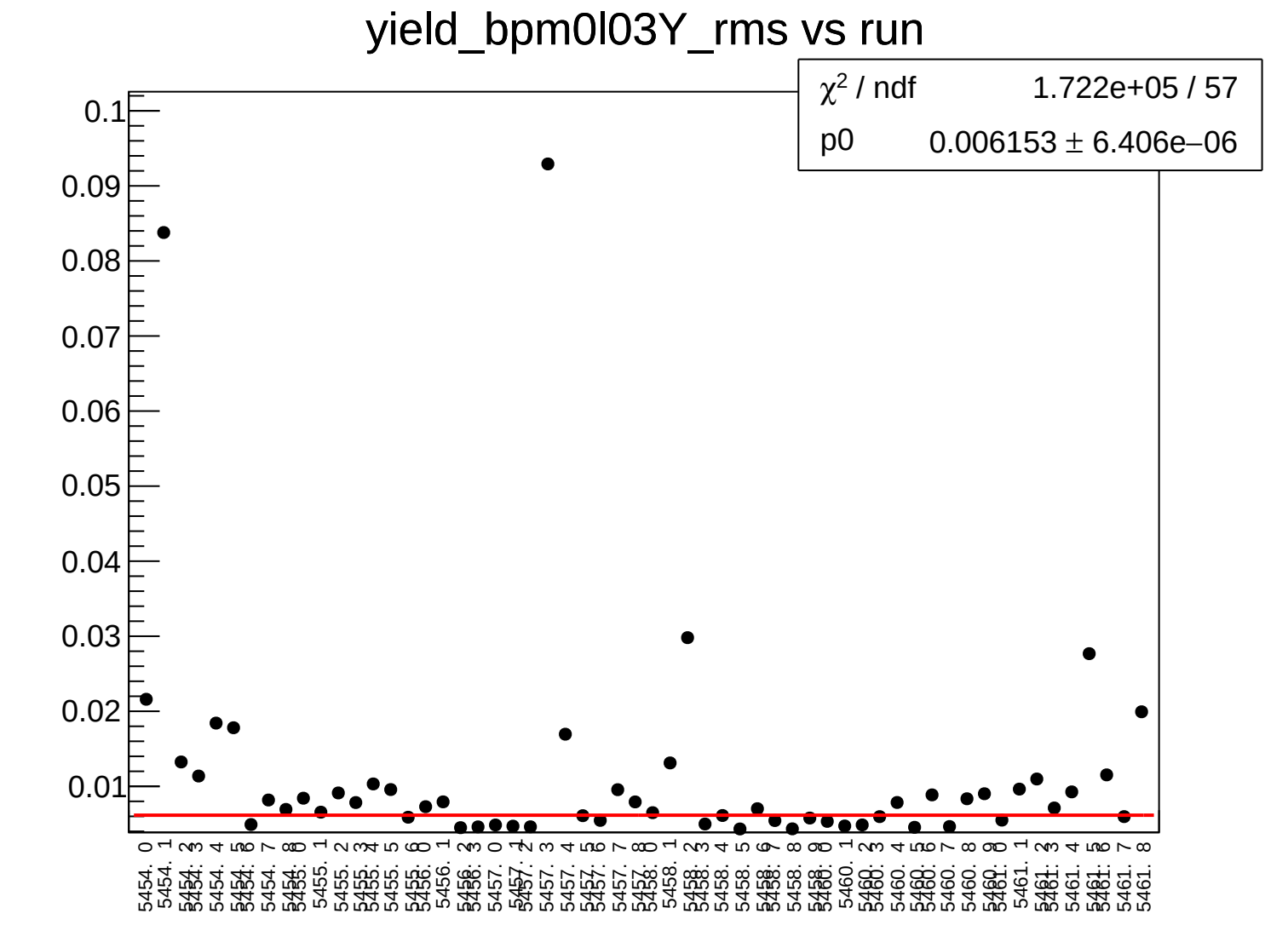

yield_bpm0l03X_mean vs run
χ² / ndf 1.262e+06 / 57
p0 −6.028 ± 7.648e−06
−5.99
−6
−6.01
−6.02
−6.03
−6.04
pull
Entries 58
Mean 73.43
Std Dev 30.2
600
400
200
0
−200

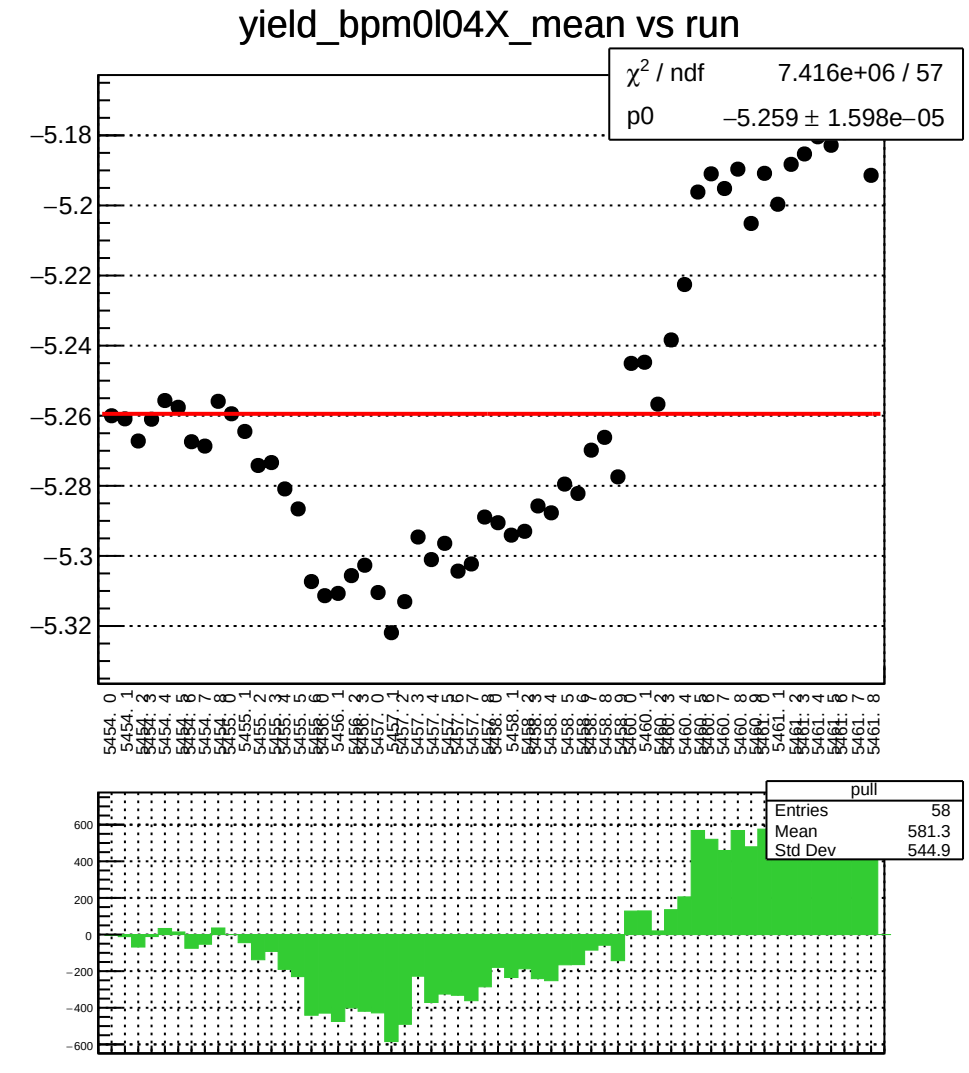

pull1D
Entries 58
Mean −2.432
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

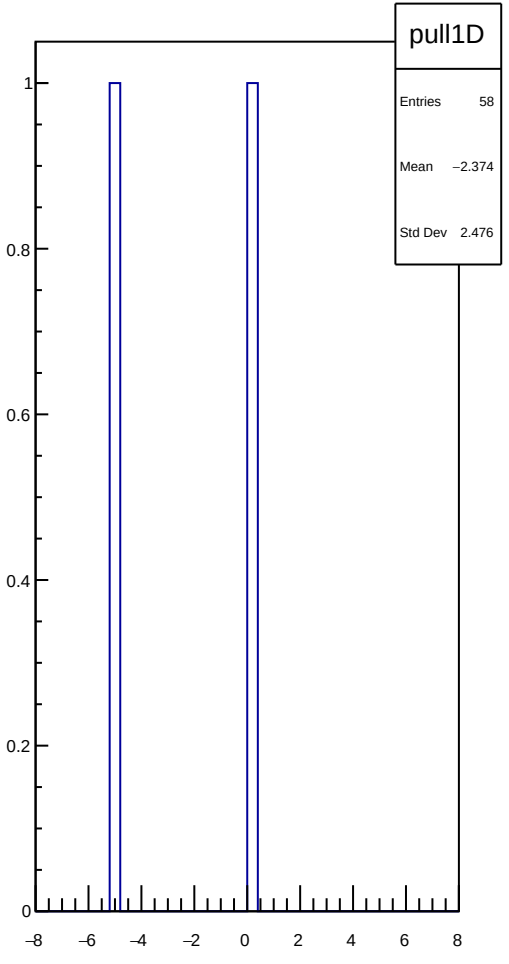

yield_bpm0l03X_rms vs run
χ² / ndf 1.925e+05 / 57
p0 0.005137 ± 5.408e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

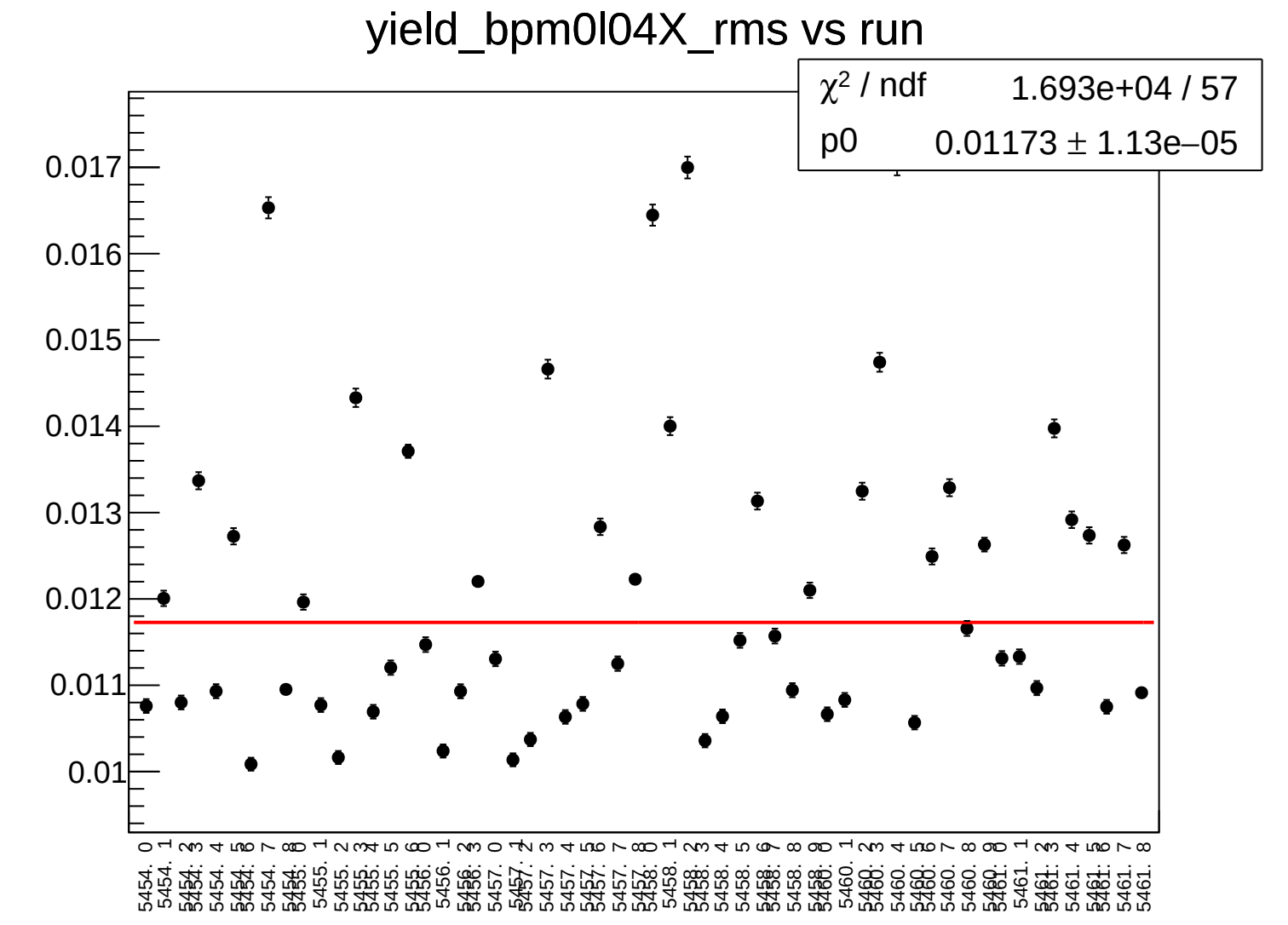

yield_bpm0l03Y_mean vs run
χ² / ndf 3.82e+06 / 57
p0 3.324 ± 9.059e−06
3.36
3.34
3.32
3.3
3.28
pull
Entries 58
Mean 413.3
Std Dev 382
600
400
200
0
−200
−400
−600

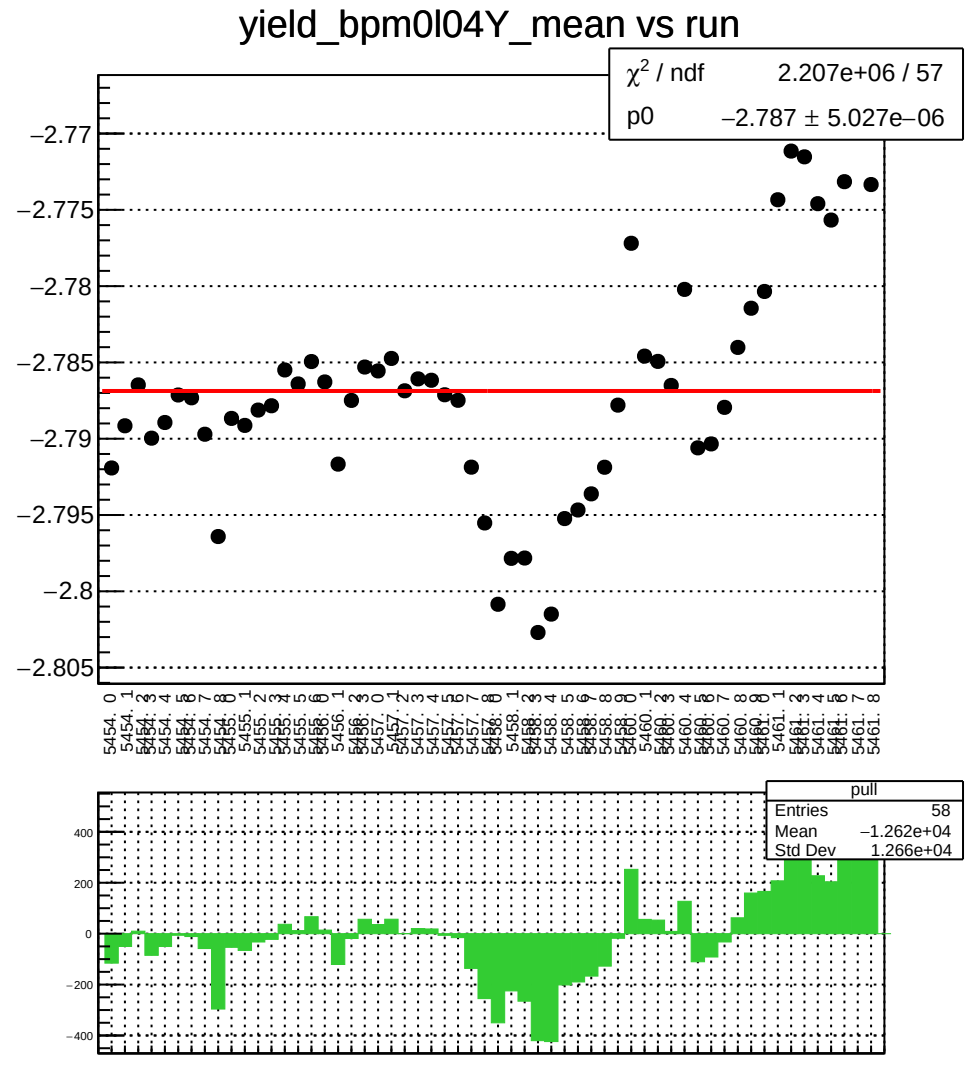

pull1D
Entries 58
Mean −3.001
Std Dev 5.152
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

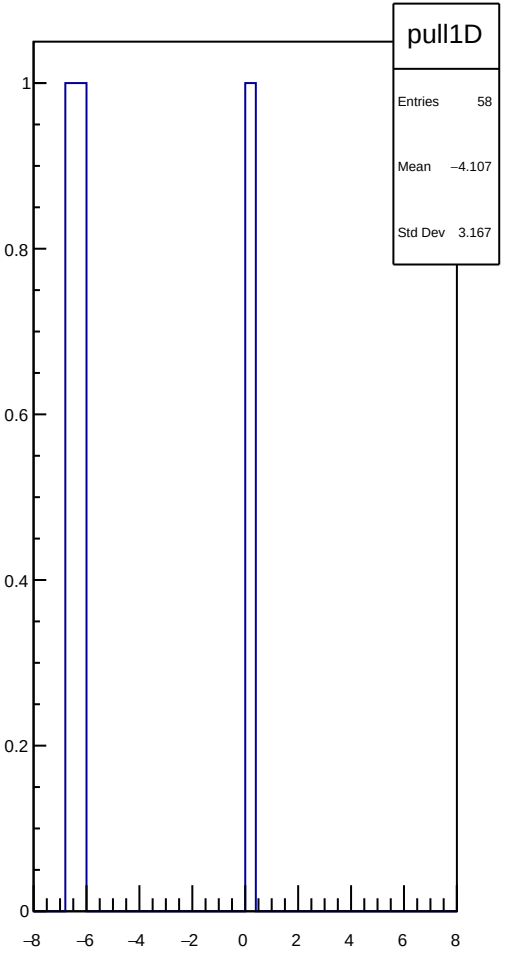

yield_bpm0l03Y_rms vs run
χ² / ndf 1.722e+05 / 57
p0 0.006153 ± 6.406e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

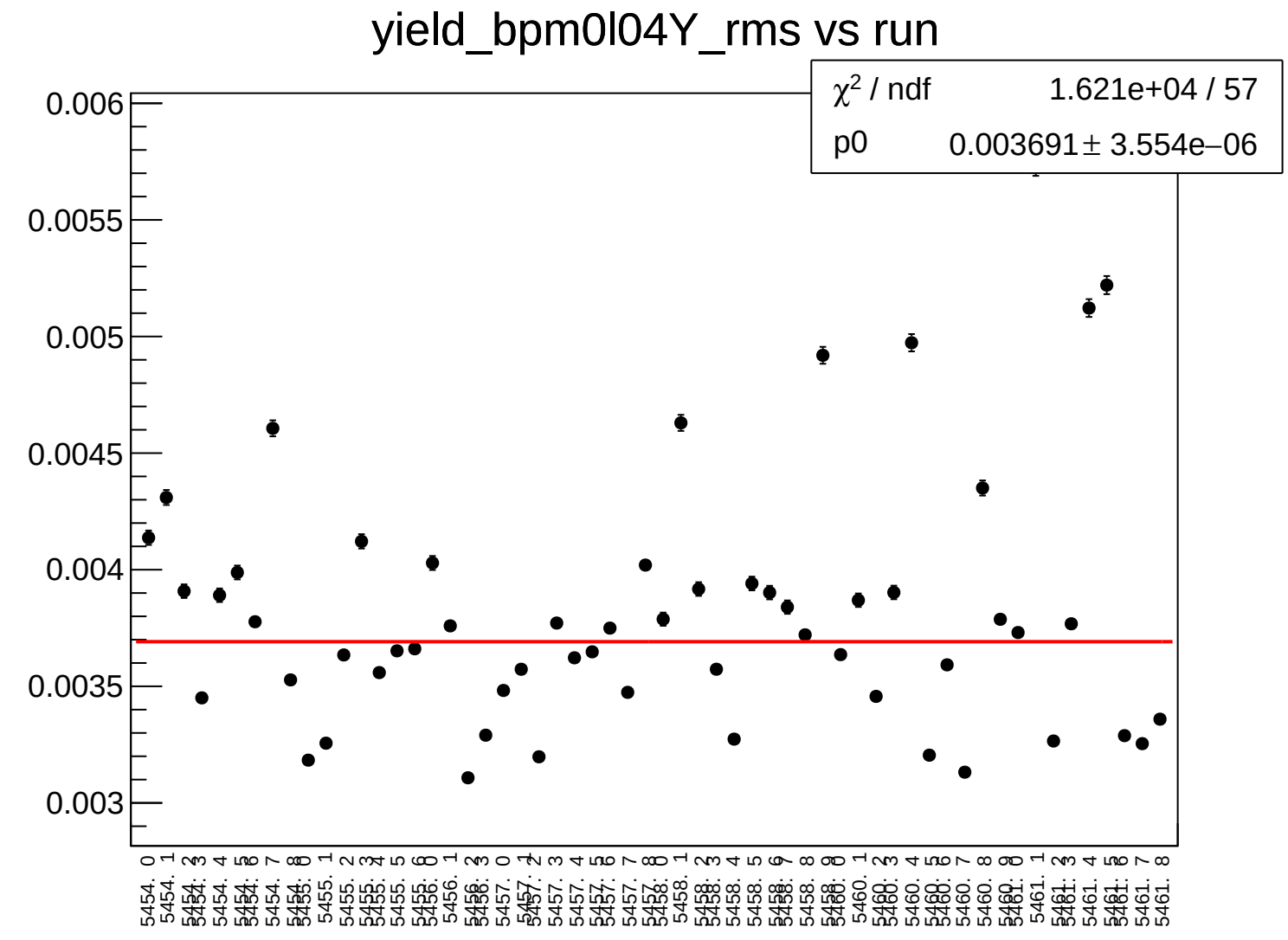

yield_bpm0l04X_mean vs run
χ² / ndf 7.416e+06 / 57
p0 −5.259 ± 1.598e−05
−5.18
−5.2
−5.22
−5.24
−5.26
−5.28
−5.3
−5.32
pull
Entries 58
Mean 581.3
Std Dev 544.9
600
400
200
0
−200
−400
−600

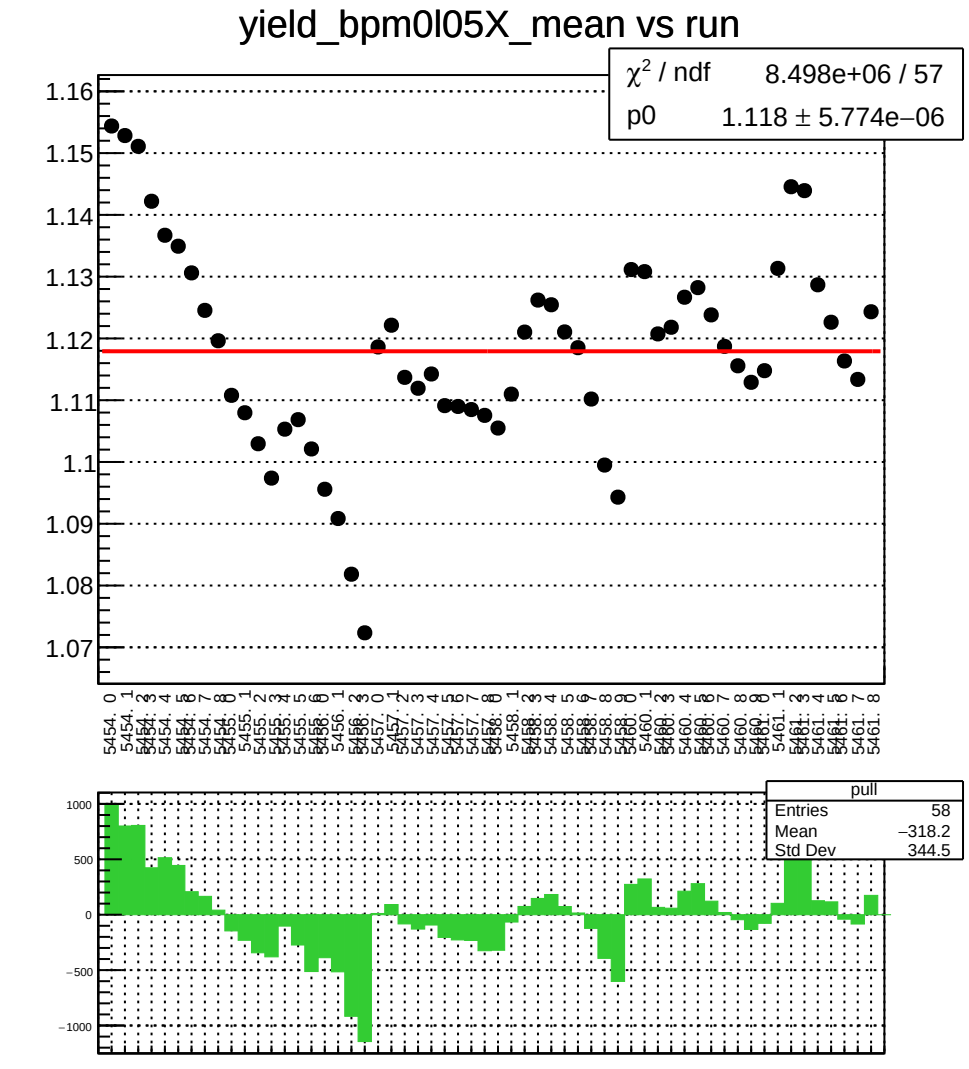

pull1D
Entries 58
Mean −2.374
Std Dev 2.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

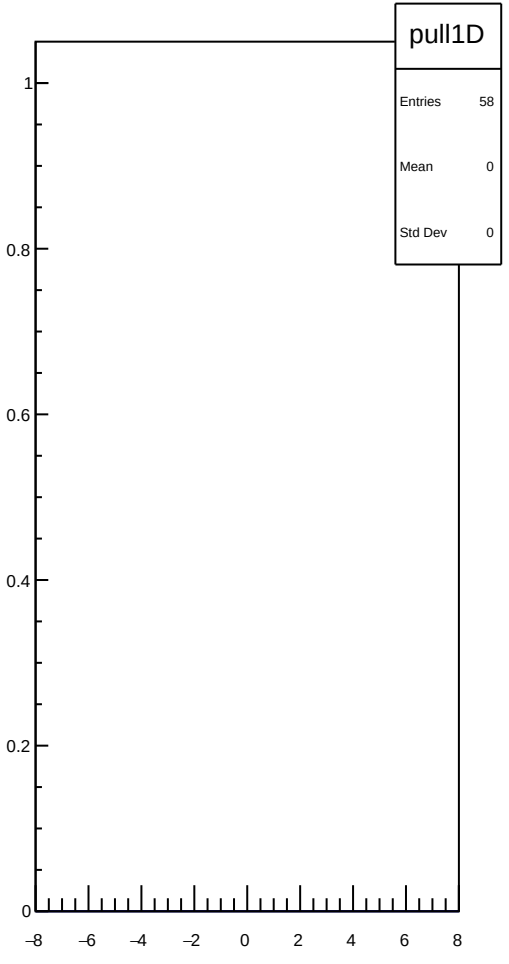

yield_bpm0l04X_rms vs run
χ² / ndf 1.693e+04 / 57
p0 0.01173 ± 1.13e−05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01

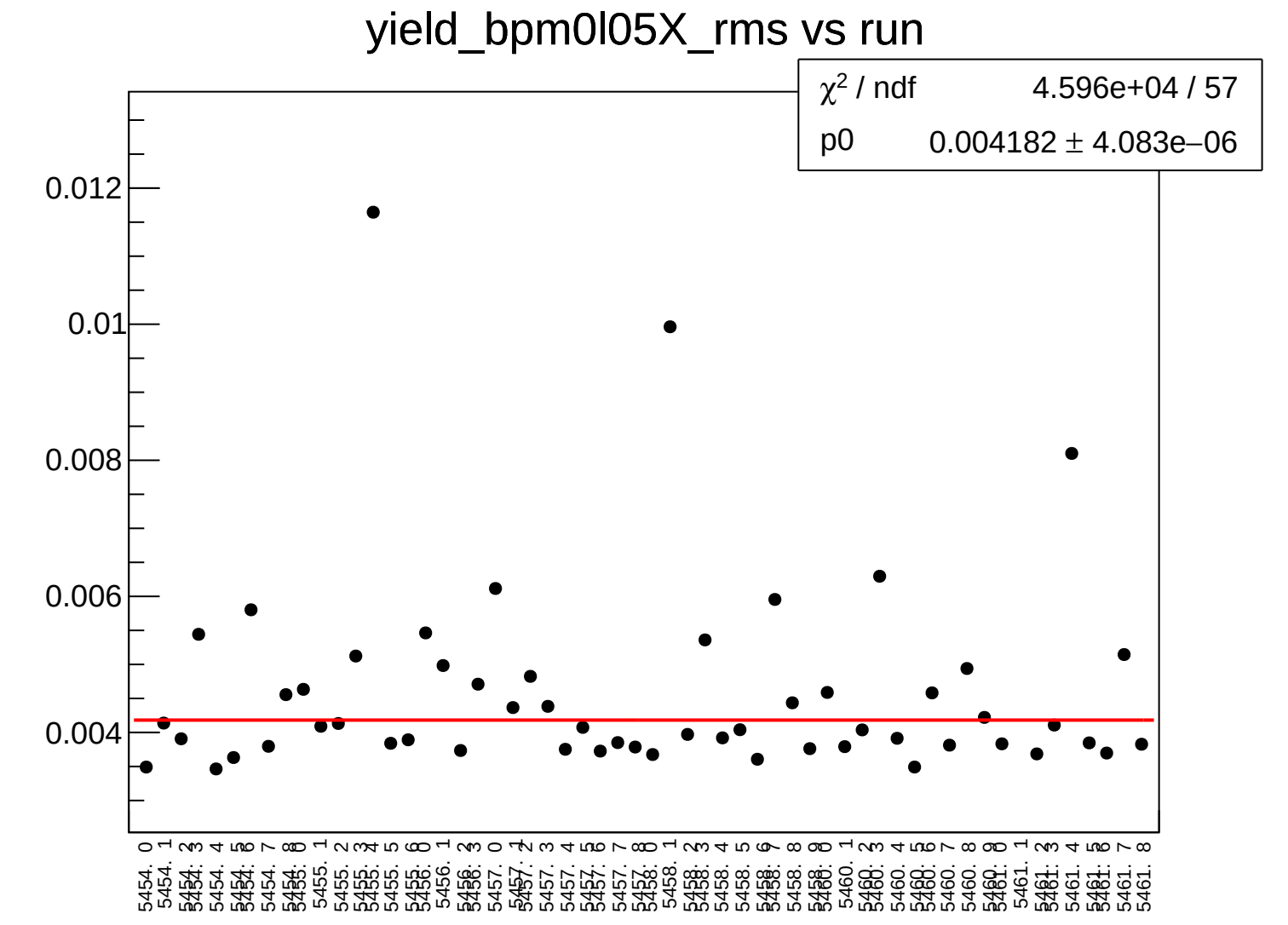

yield_bpm0l04Y_mean vs run
χ² / ndf 2.207e+06 / 57
p0 −2.787 ± 5.027e−06
−2.77
−2.775
−2.78
−2.785
−2.79
−2.795
−2.8
−2.805
pull
Entries 58
Mean −1.262e+04
Std Dev 1.266e+04
400
200
0
−200
−400

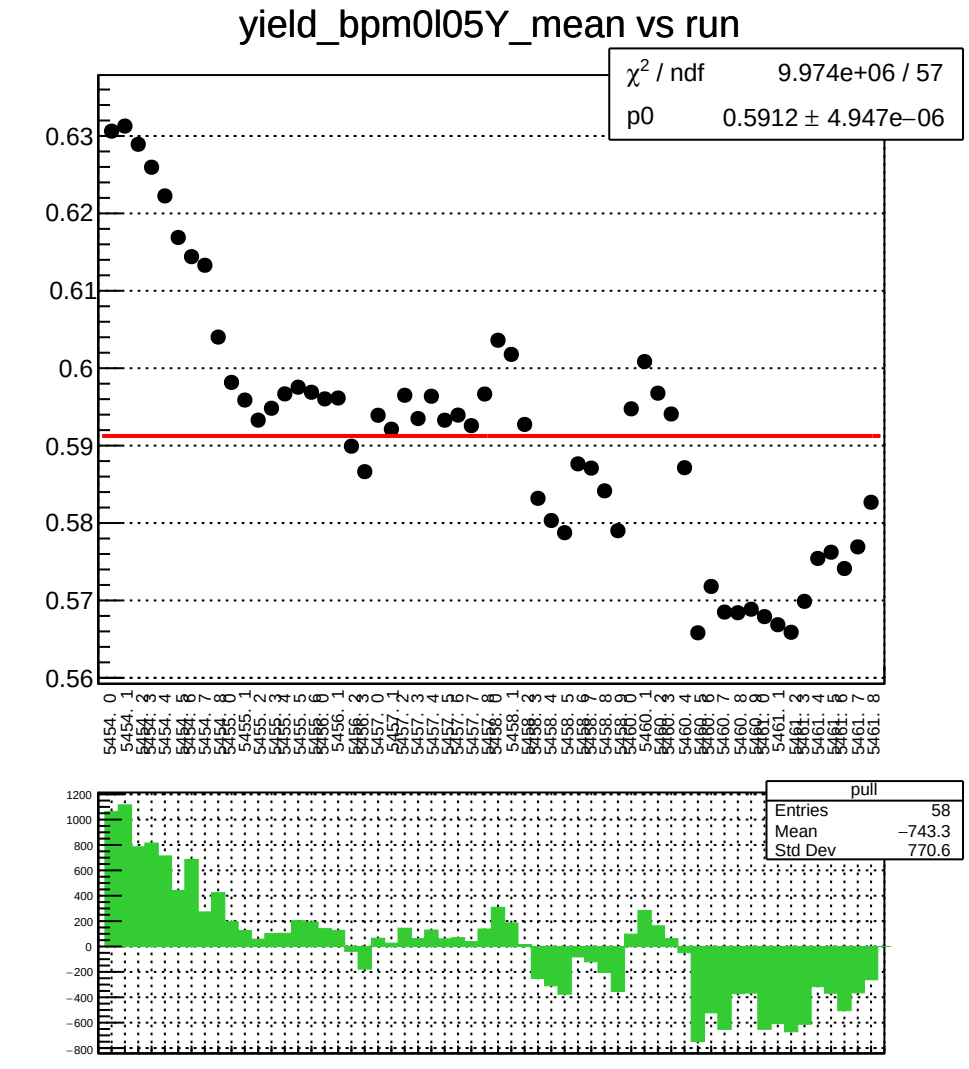

pull1D
Entries 58
Mean −4.107
Std Dev 3.167
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

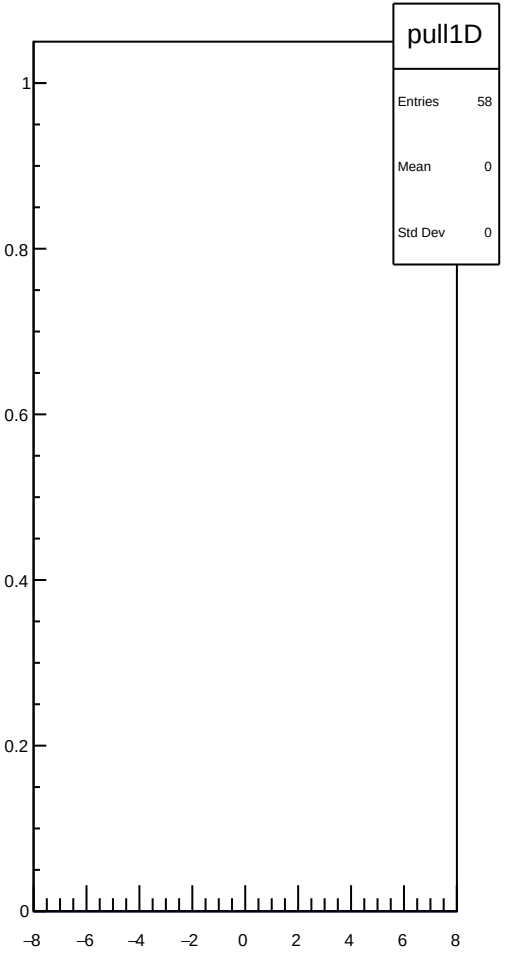

yield_bpm0l04Y_rms vs run
χ² / ndf 1.621e+04 / 57
p0 0.003691 ± 3.554e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

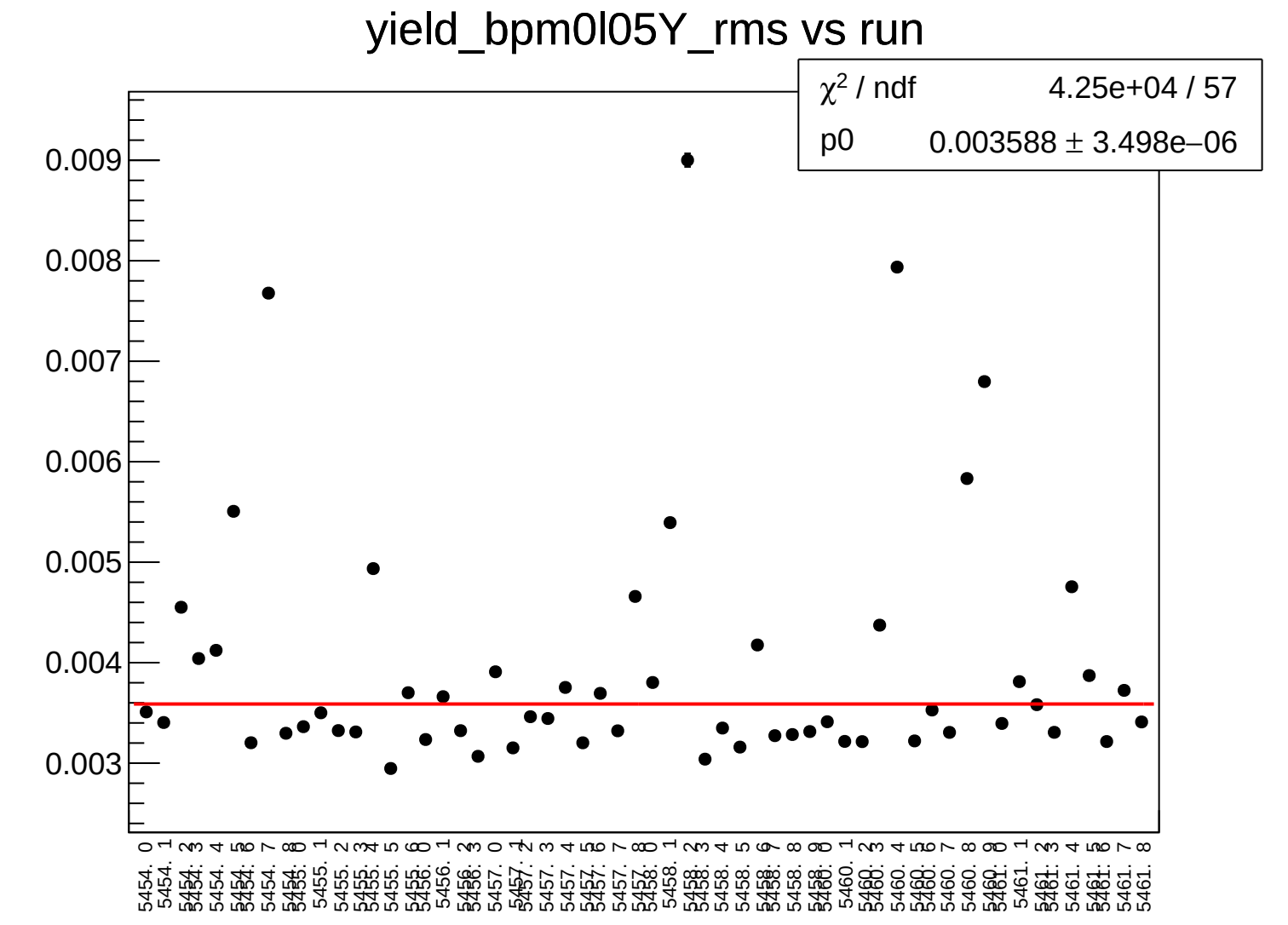

yield_bpm0l05X_mean vs run
χ² / ndf 8.498e+06 / 57
p0 1.118 ± 5.774e−06
1.16
1.15
1.14
1.13
1.12
1.11
1.1
1.09
1.08
1.07
pull
Entries 58
Mean −318.2
Std Dev 344.5
1000
500
0
−500
−1000

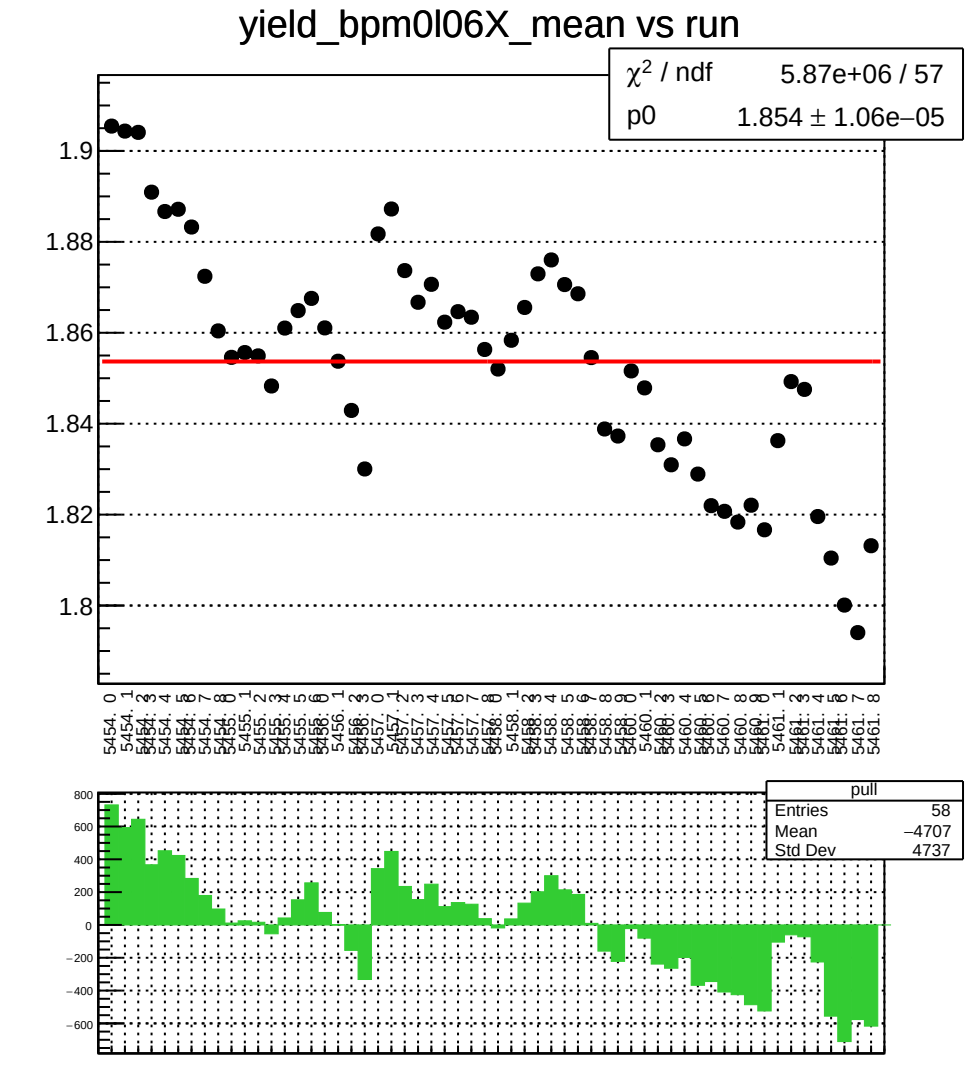

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

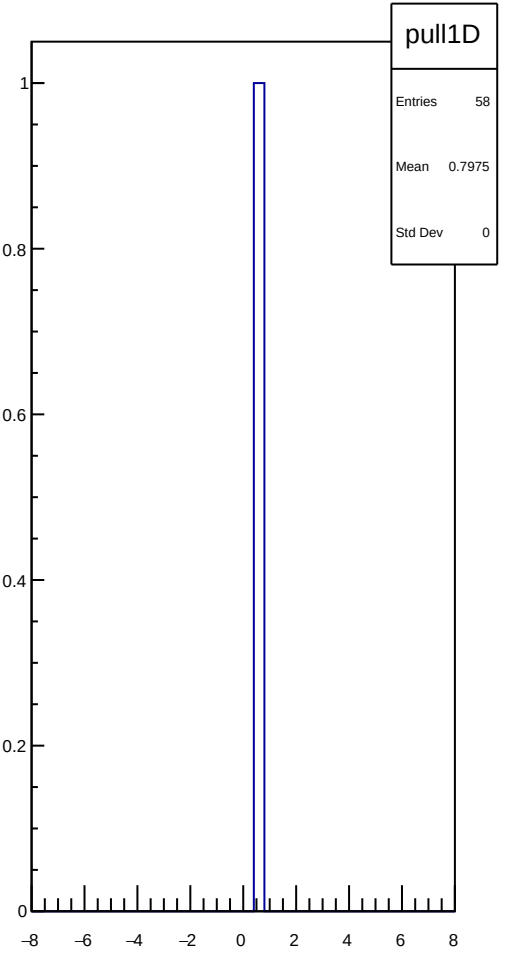

yield_bpm0l05X_rms vs run
χ² / ndf 4.596e+04 / 57
p0 0.004182 ± 4.083e−06
0.012
0.01
0.008
0.006
0.004

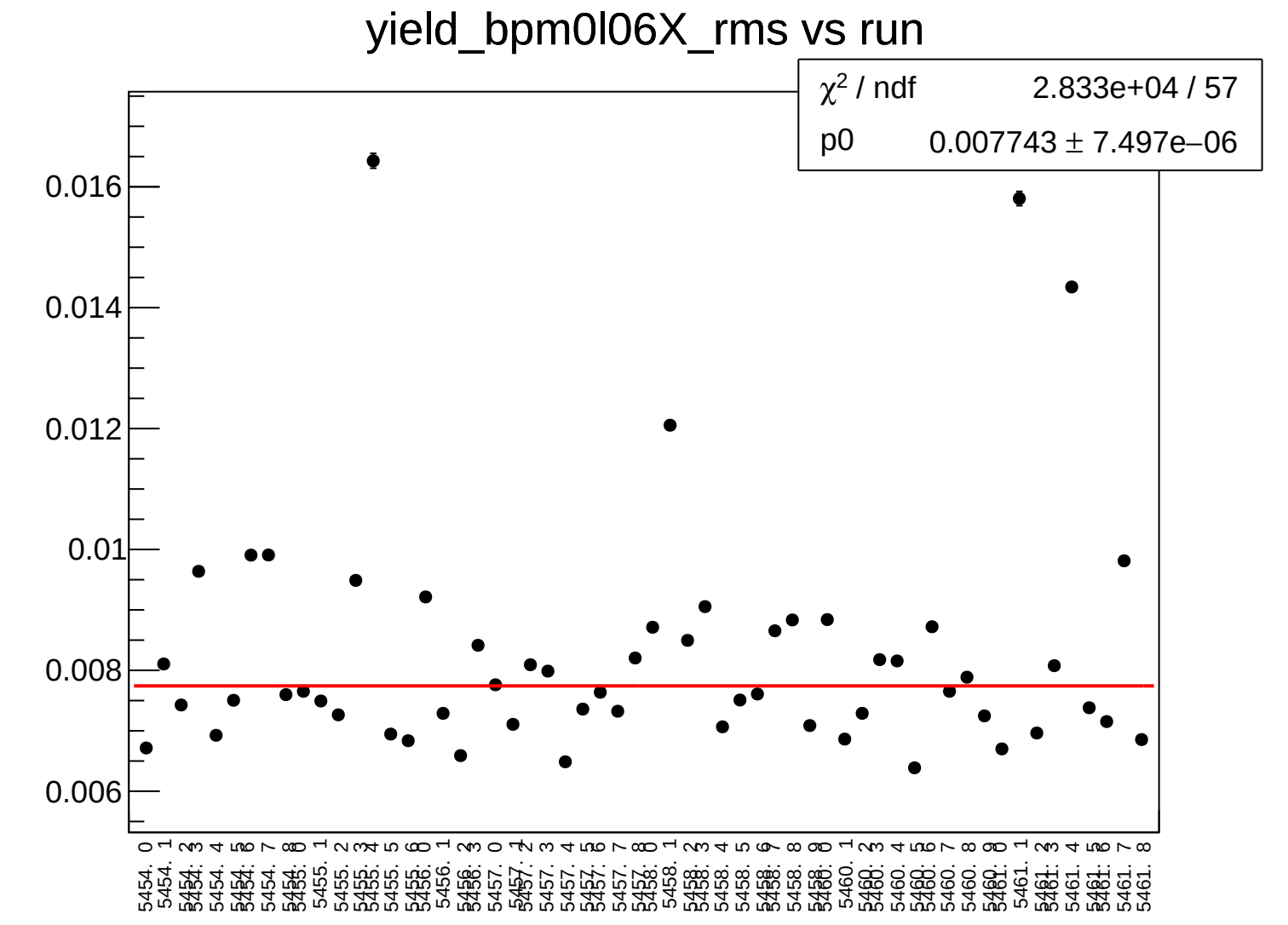

yield_bpm0l05Y_mean vs run
χ² / ndf 9.974e+06 / 57
p0 0.5912 ± 4.947e−06
0.63
0.62
0.61
0.6
0.59
0.58
0.57
0.56
pull
Entries 58
Mean −743.3
Std Dev 770.6
1200
1000
800
600
400
200
0
−200
−400
−600
−800

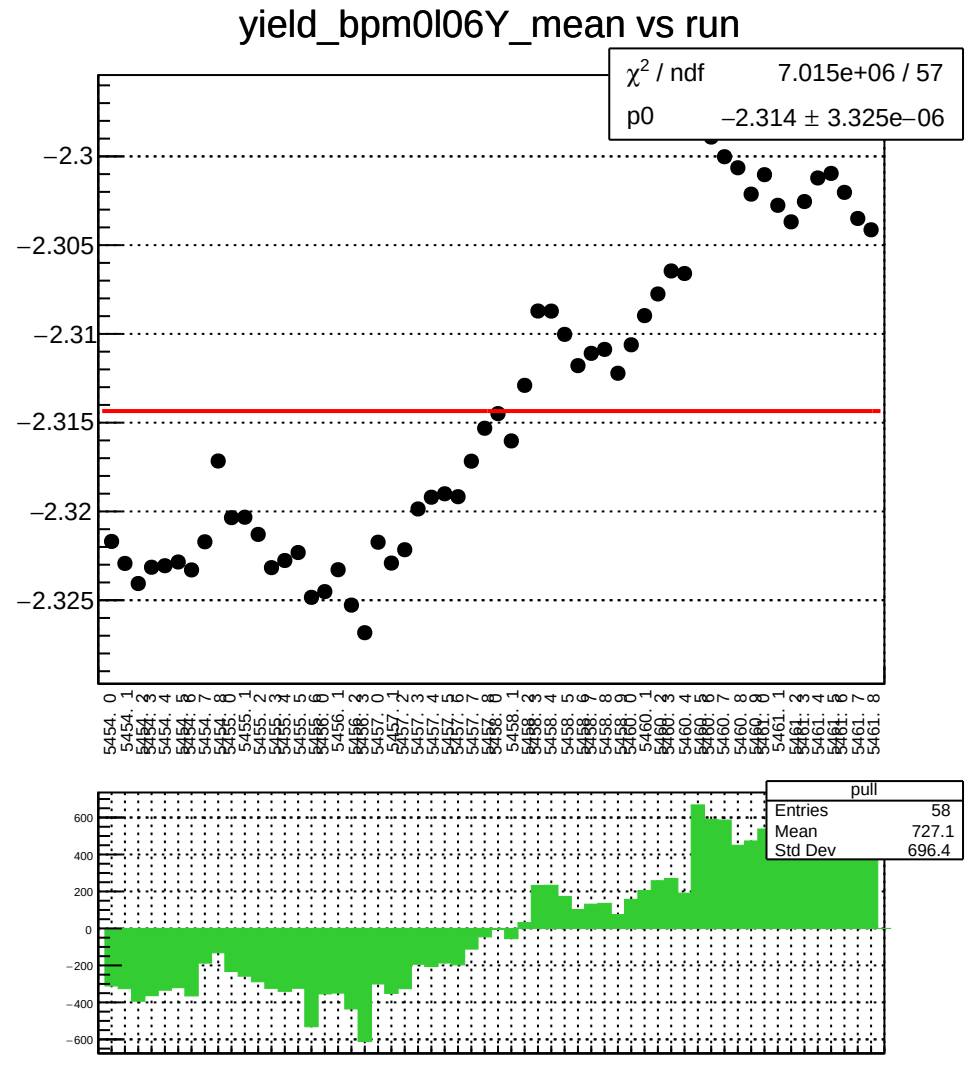

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

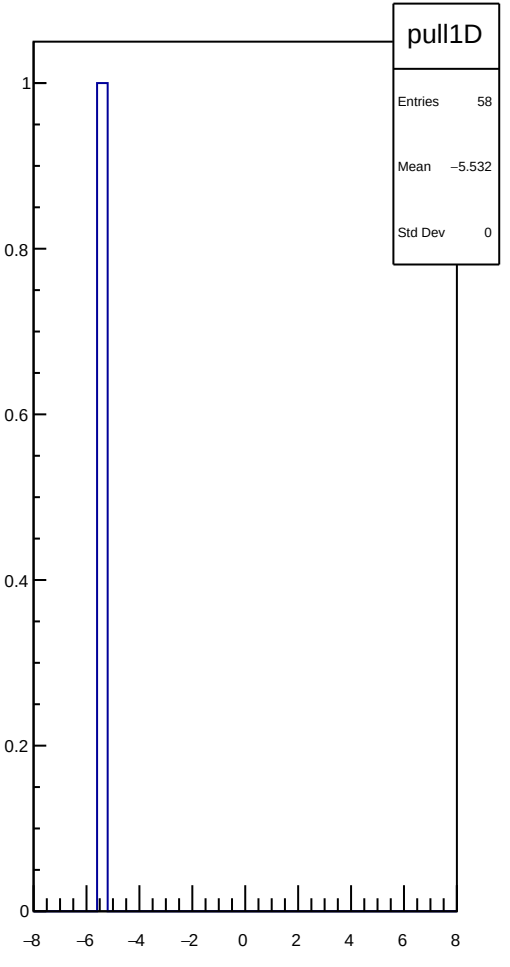

yield_bpm0l05Y_rms vs run
χ² / ndf 4.25e+04 / 57
p0 0.003588 ± 3.498e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

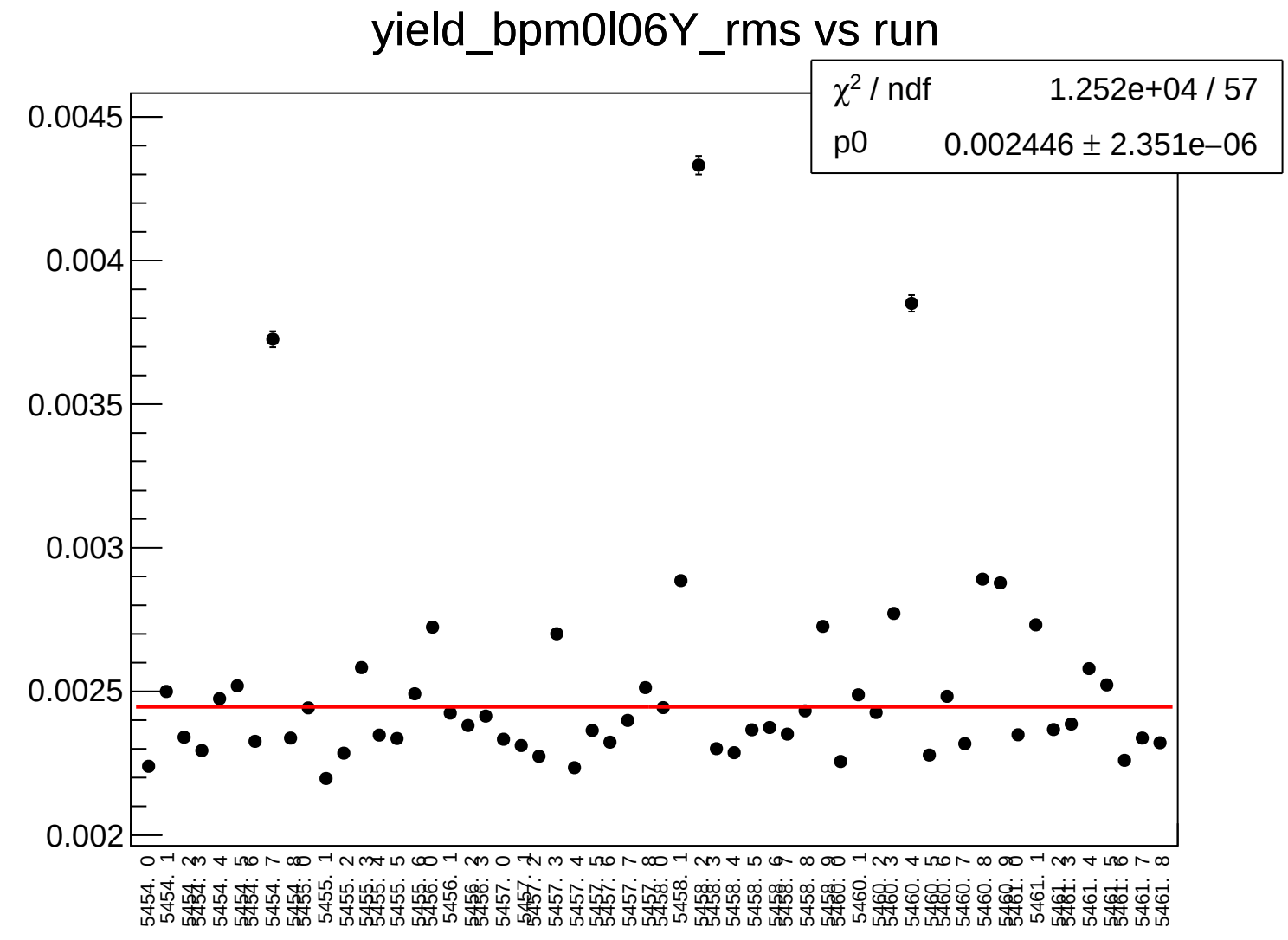

yield_bpm0l06X_mean vs run
χ² / ndf 5.87e+06 / 57
p0 1.854 ± 1.06e−05
1.9
1.88
1.86
1.84
1.82
1.8
pull
Entries 58
Mean −4707
Std Dev 4737
800
600
400
200
0
−200
−400
−600

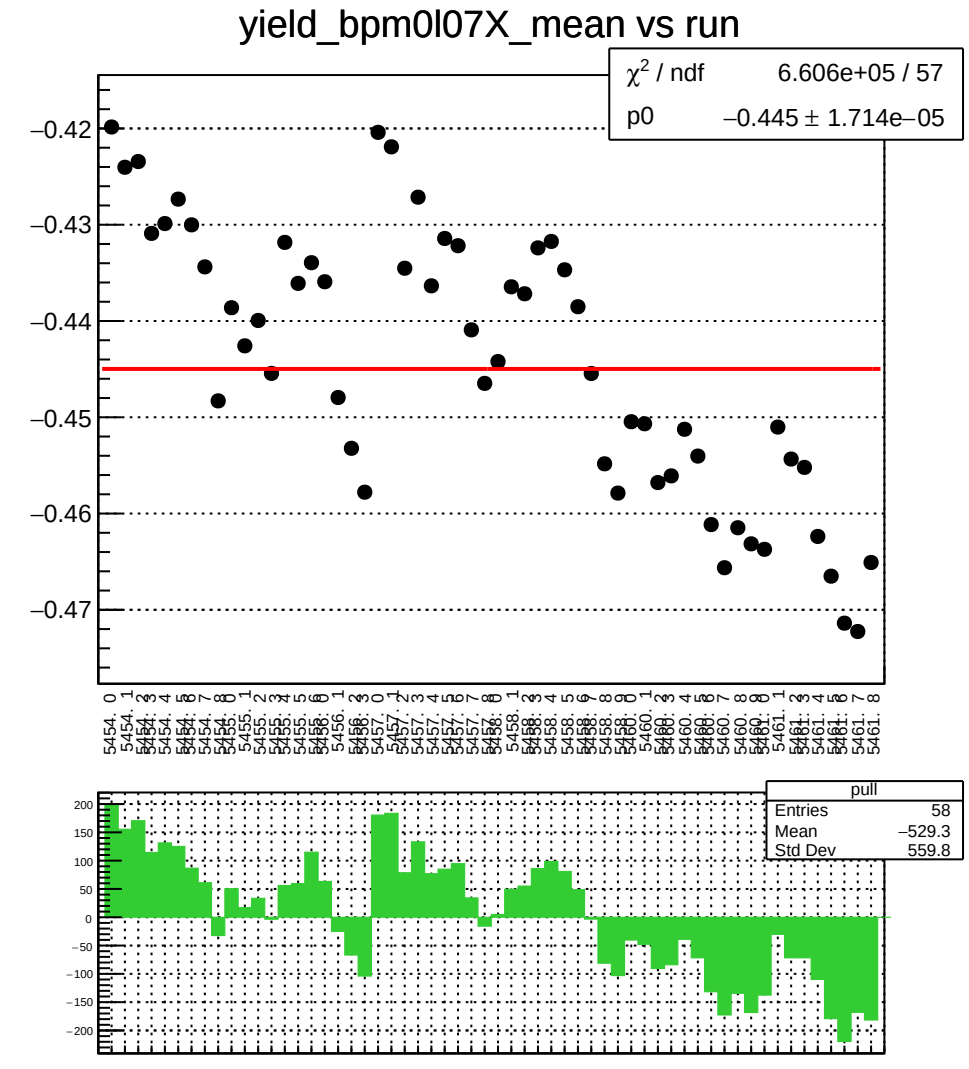

pull1D
Entries 58
Mean 0.7975
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

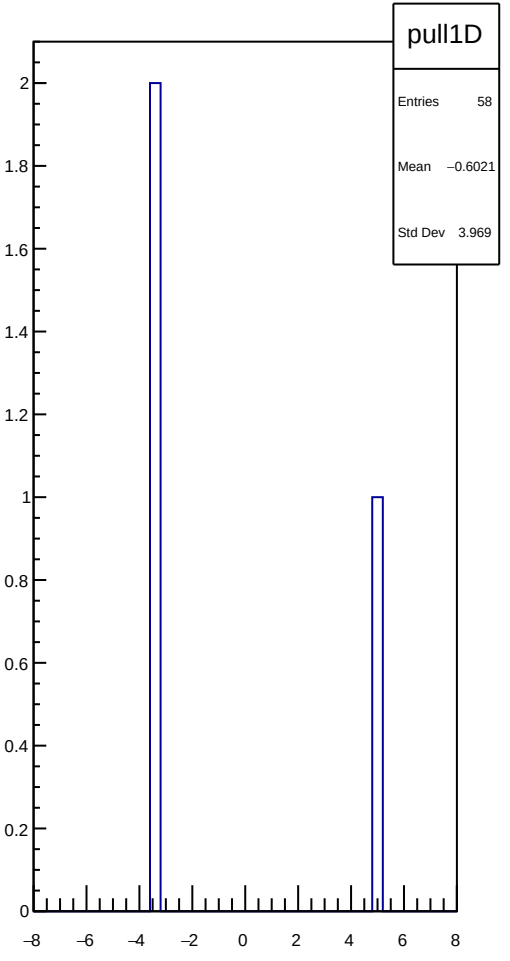

yield_bpm0l06X_rms vs run
χ² / ndf 2.833e+04 / 57
p0 0.007743 ± 7.497e−06
0.016
0.014
0.012
0.01
0.008
0.006

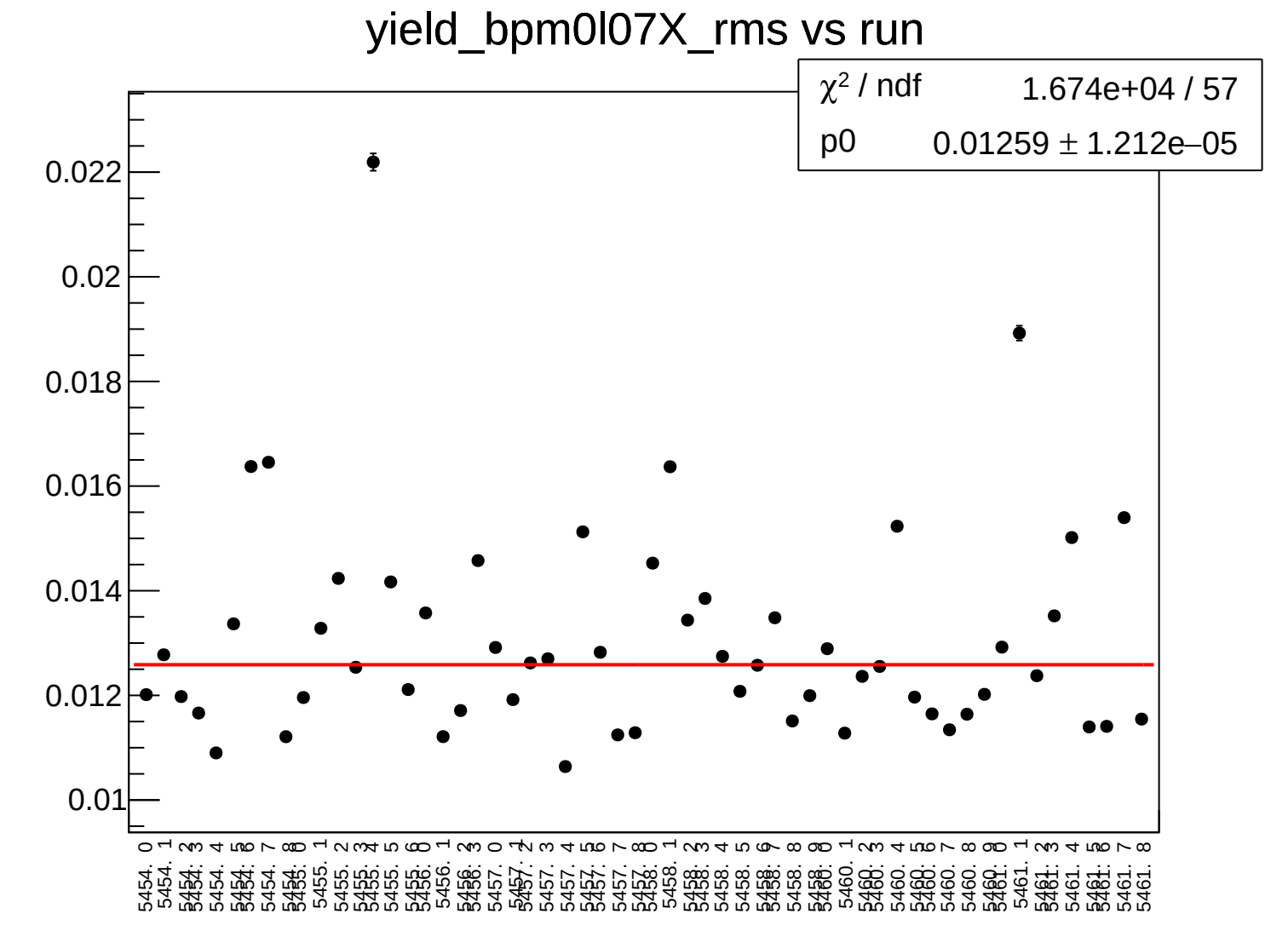

yield_bpm0l06Y_mean vs run
χ² / ndf 7.015e+06 / 57
p0 −2.314 ± 3.325e−06
−2.3
−2.305
−2.31
−2.315
−2.32
−2.325
pull
Entries 58
Mean 727.1
Std Dev 696.4
600
400
200
0
−200
−400
−600

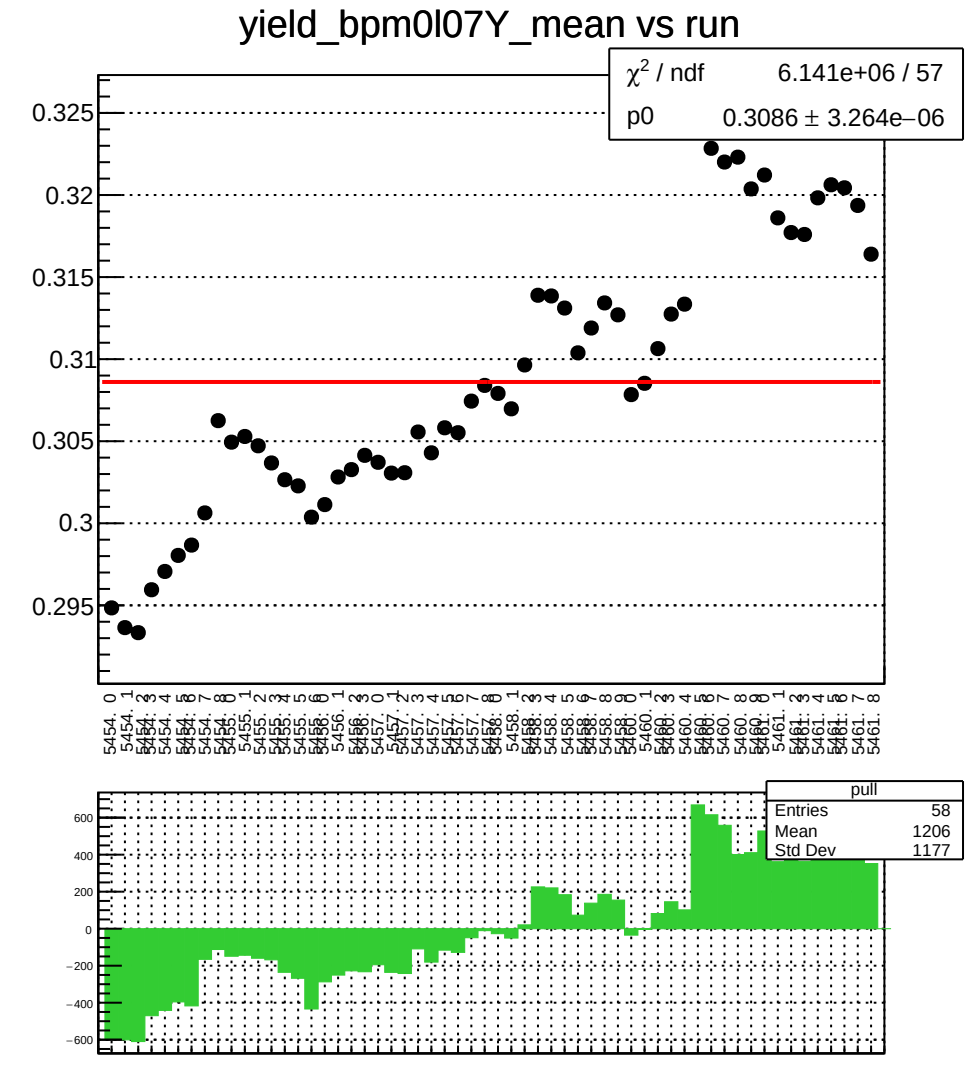

pull1D
Entries 58
Mean −5.532
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

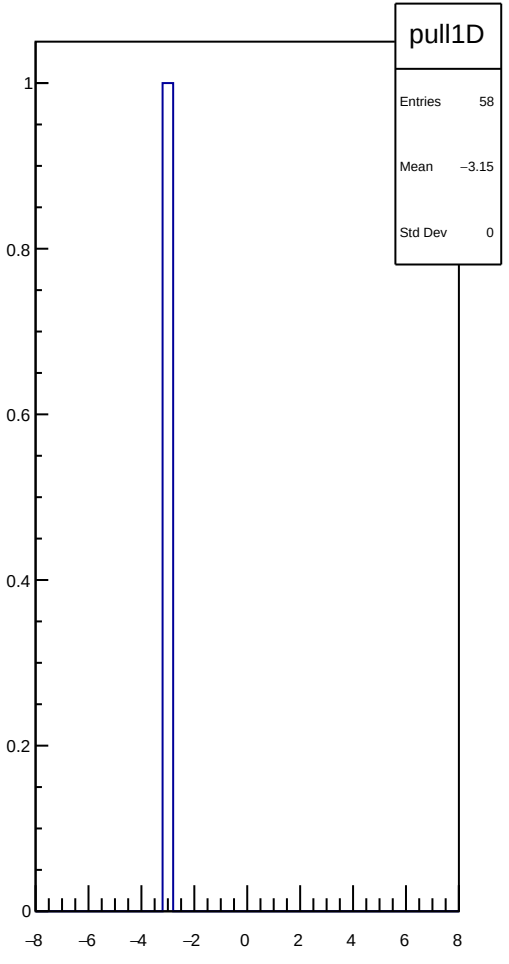

yield_bpm0l06Y_rms vs run
χ² / ndf 1.252e+04 / 57
p0 0.002446 ± 2.351e−06
0.0045
0.004
0.0035
0.003
0.0025
0.002

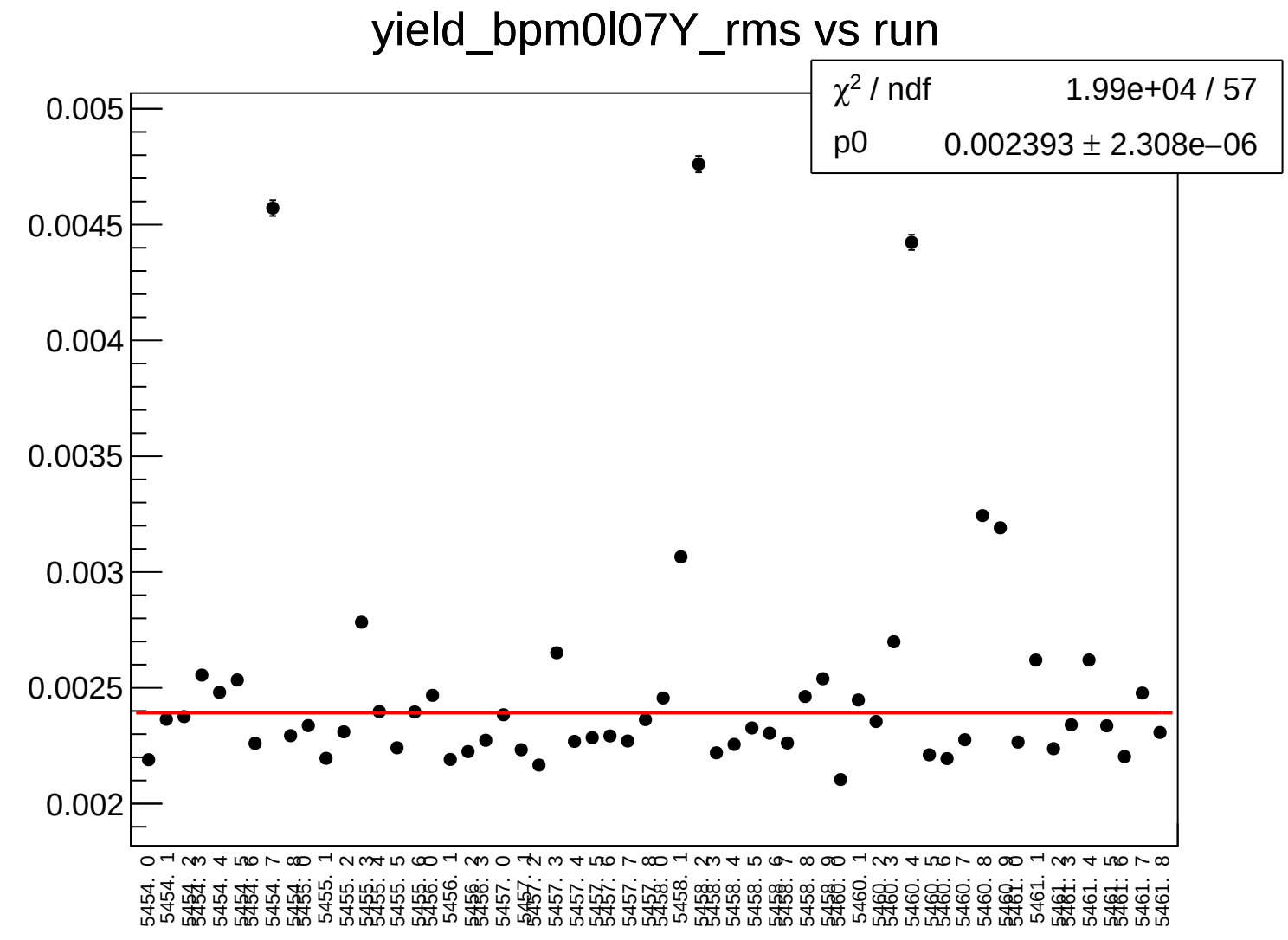

yield_bpm0l07X_mean vs run
χ² / ndf 6.606e+05 / 57
p0 −0.445 ± 1.714e−05
−0.42
−0.43
−0.44
−0.45
−0.46
−0.47
pull
Entries 58
Mean −529.3
Std Dev 559.8
200
150
100
50
0
−50
−100
−150
−200

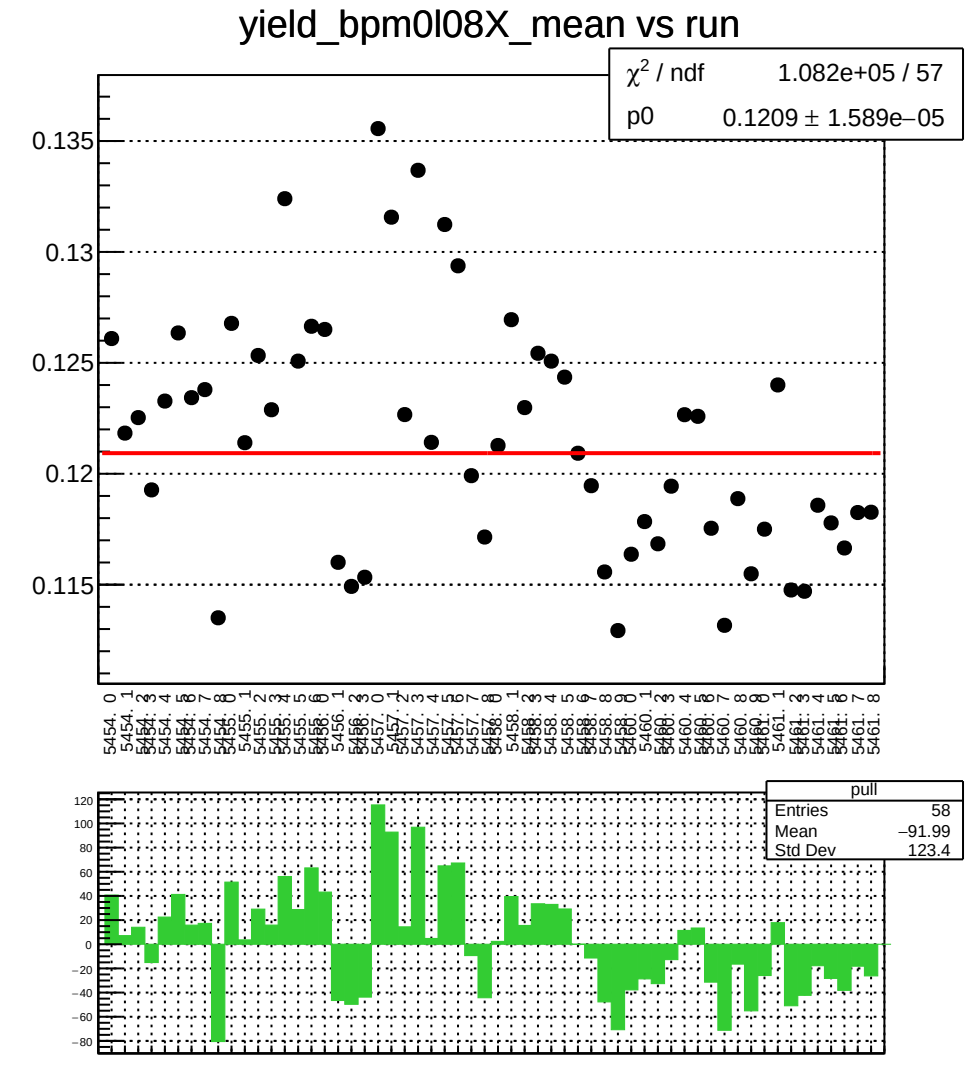

pull1D
Entries 58
Mean −0.6021
Std Dev 3.969
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

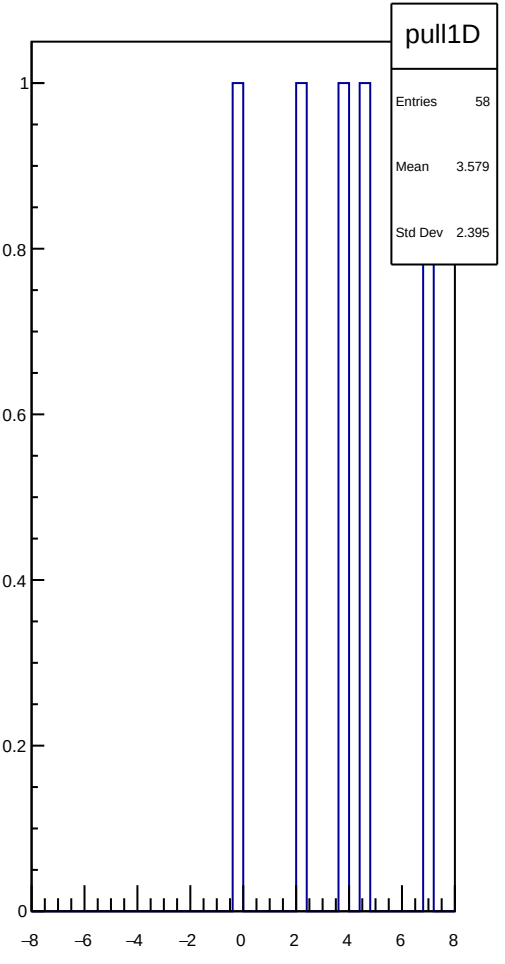

yield_bpm0l07X_rms vs run
χ² / ndf 1.674e+04 / 57
p0 0.01259 ± 1.212e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

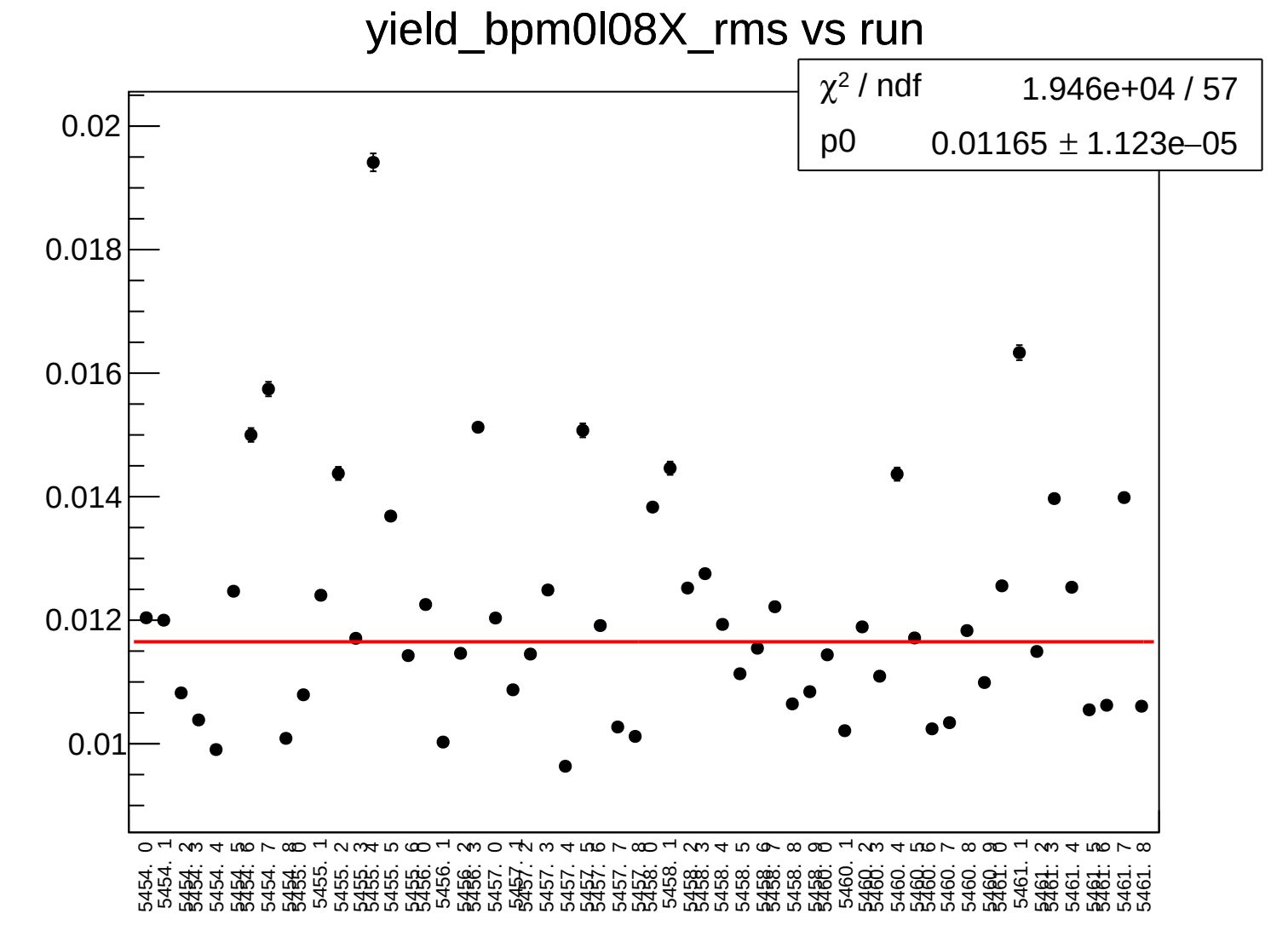

yield_bpm0l07Y_mean vs run
χ² / ndf 6.141e+06 / 57
p0 0.3086 ± 3.264e−06
0.325
0.32
0.315
0.31
0.305
0.3
0.295
pull
Entries 58
Mean 1206
Std Dev 1177
600
400
200
0
−200
−400
−600

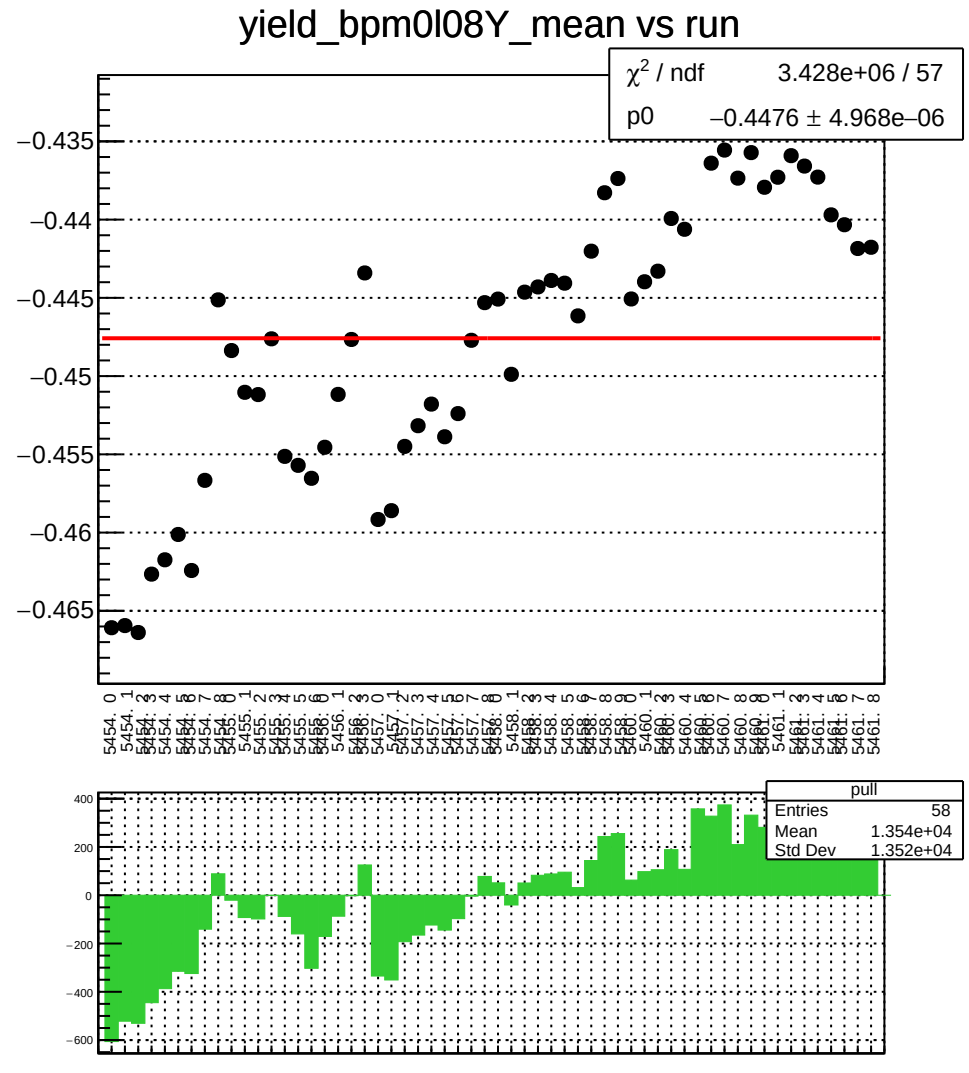

pull1D
Entries 58
Mean −3.15
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

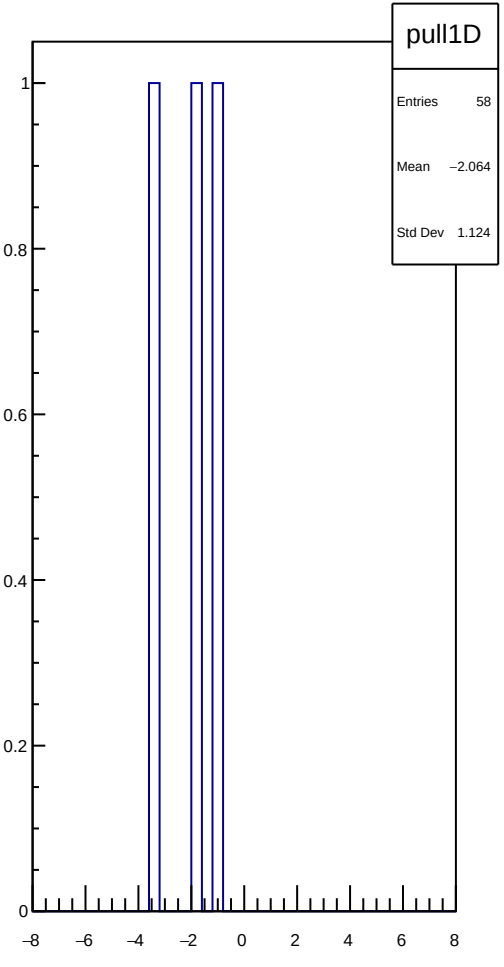

yield_bpm0l07Y_rms vs run
χ² / ndf 1.99e+04 / 57
p0 0.002393 ± 2.308e−06
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

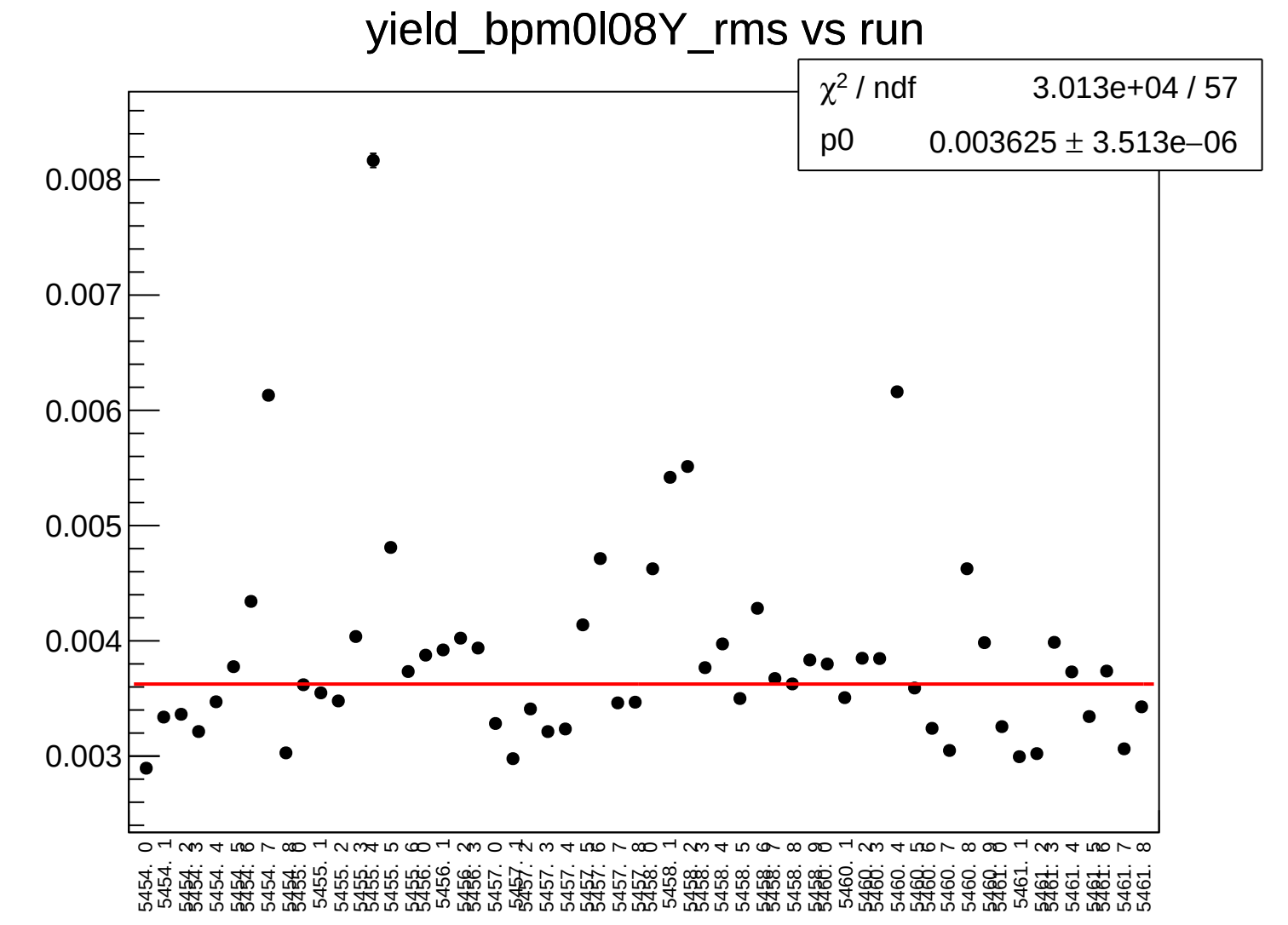

yield_bpm0l08X_mean vs run
χ² / ndf 1.082e+05 / 57
p0 0.1209 ± 1.589e−05
0.135
0.13
0.125
0.12
0.115
pull
Entries 58
Mean −91.99
Std Dev 123.4
120
100
80
60
40
20
0
−20
−40
−60
−80

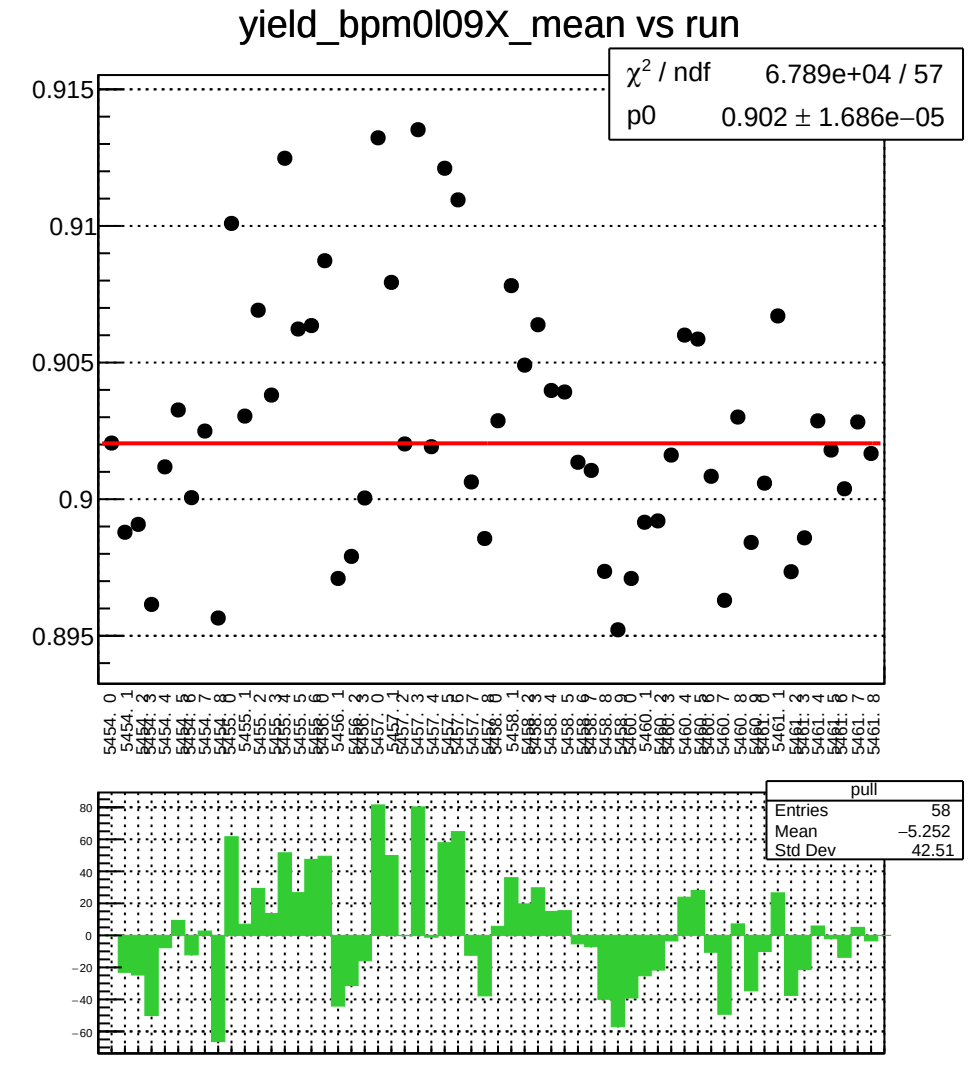

pull1D
Entries 58
Mean 3.579
Std Dev 2.395
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

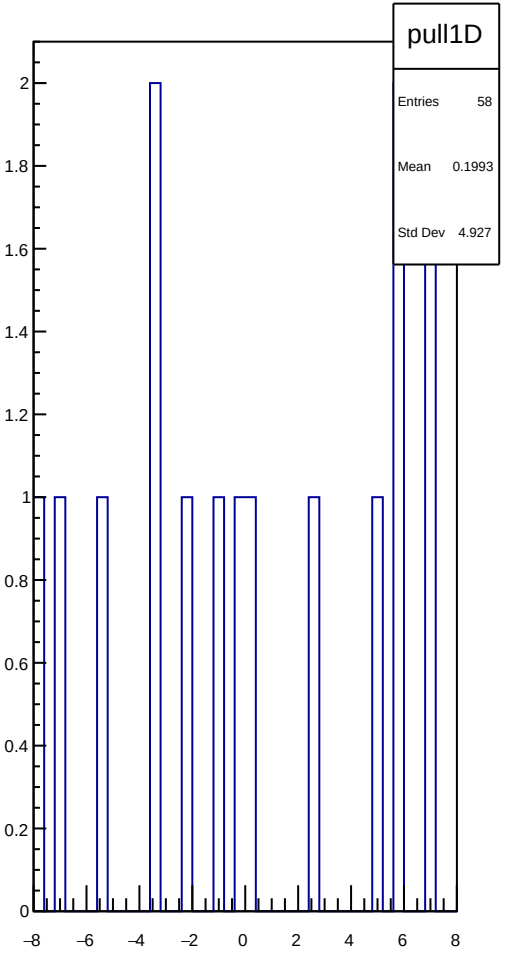

yield_bpm0l08X_rms vs run
χ² / ndf 1.946e+04 / 57
p0 0.01165 ± 1.123e–05
0.02
0.018
0.016
0.014
0.012
0.01

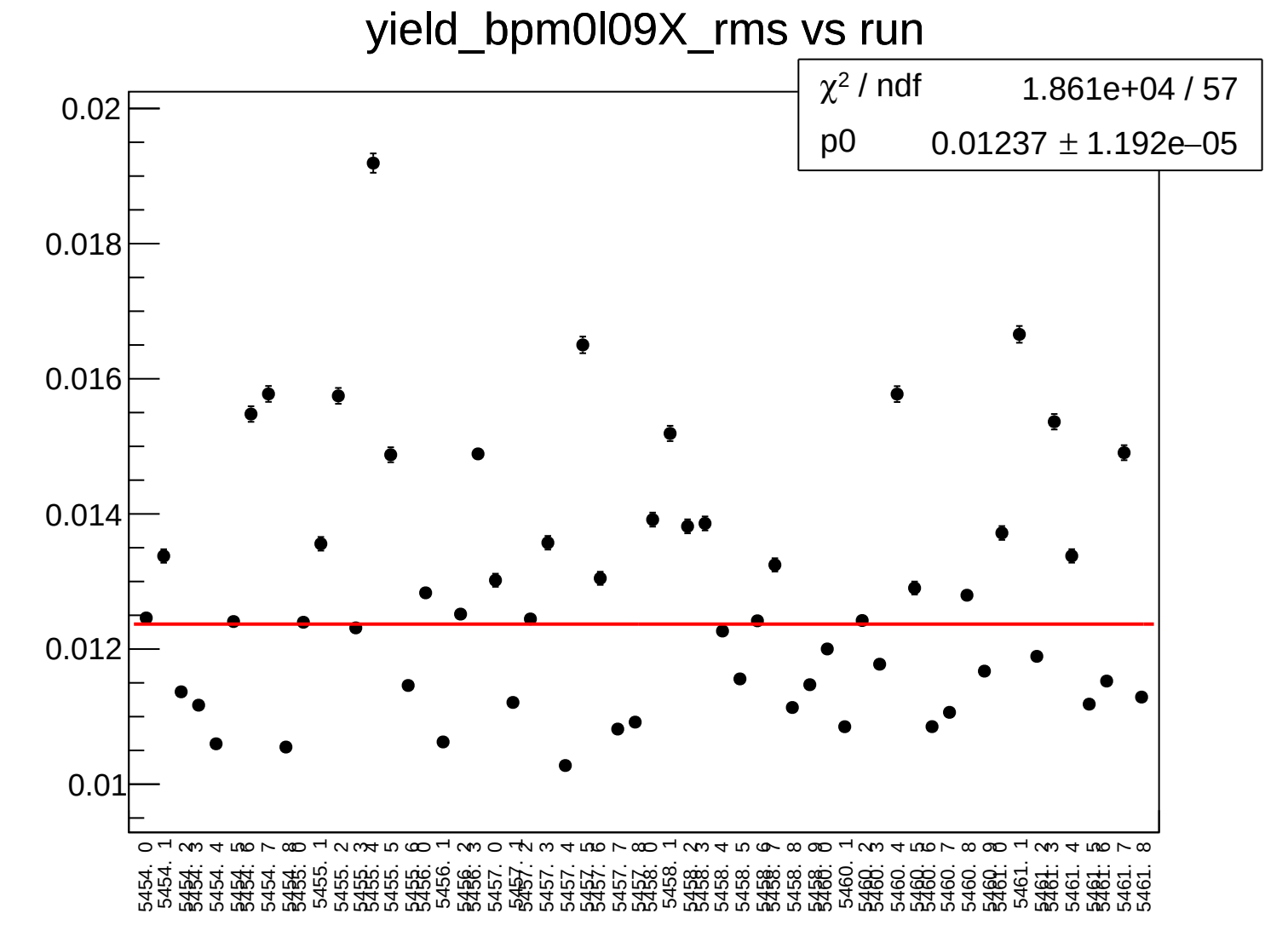

yield_bpm0l08Y_mean vs run
χ² / ndf 3.428e+06 / 57
p0 −0.4476 ± 4.968e−06
−0.435
−0.44
−0.445
−0.45
−0.455
−0.46
−0.465
pull
Entries 58
Mean 1.354e+04
Std Dev 1.352e+04
400
200
0
−200
−400
−600

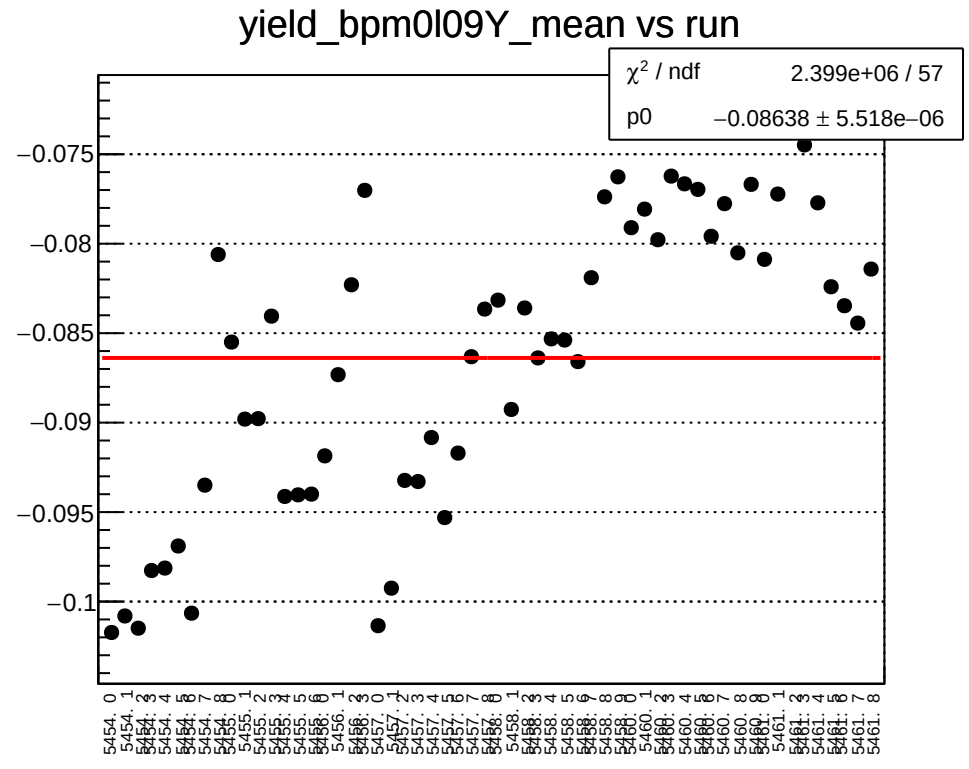

pull1D
Entries 58
Mean −2.064
Std Dev 1.124
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

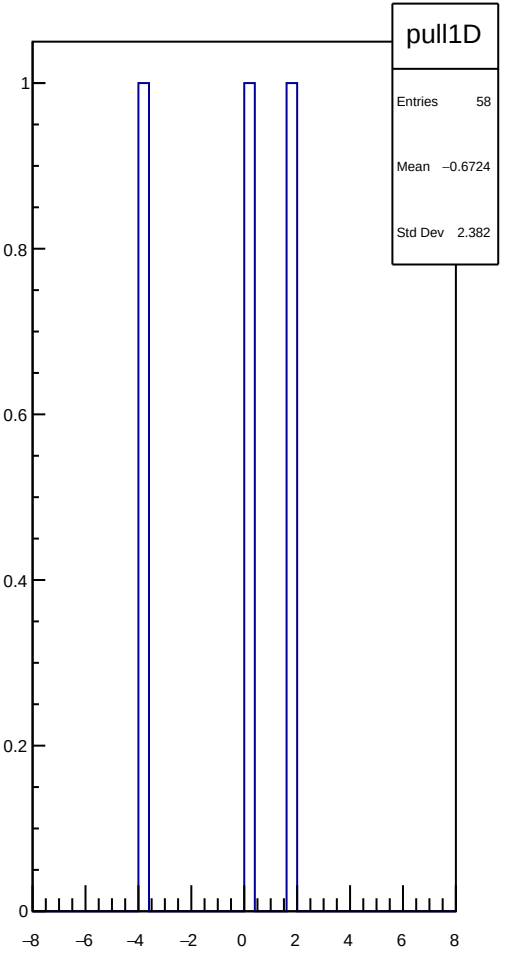

yield_bpm0l08Y_rms vs run
χ² / ndf 3.013e+04 / 57
p0 0.003625 ± 3.513e−06
0.008
0.007
0.006
0.005
0.004
0.003

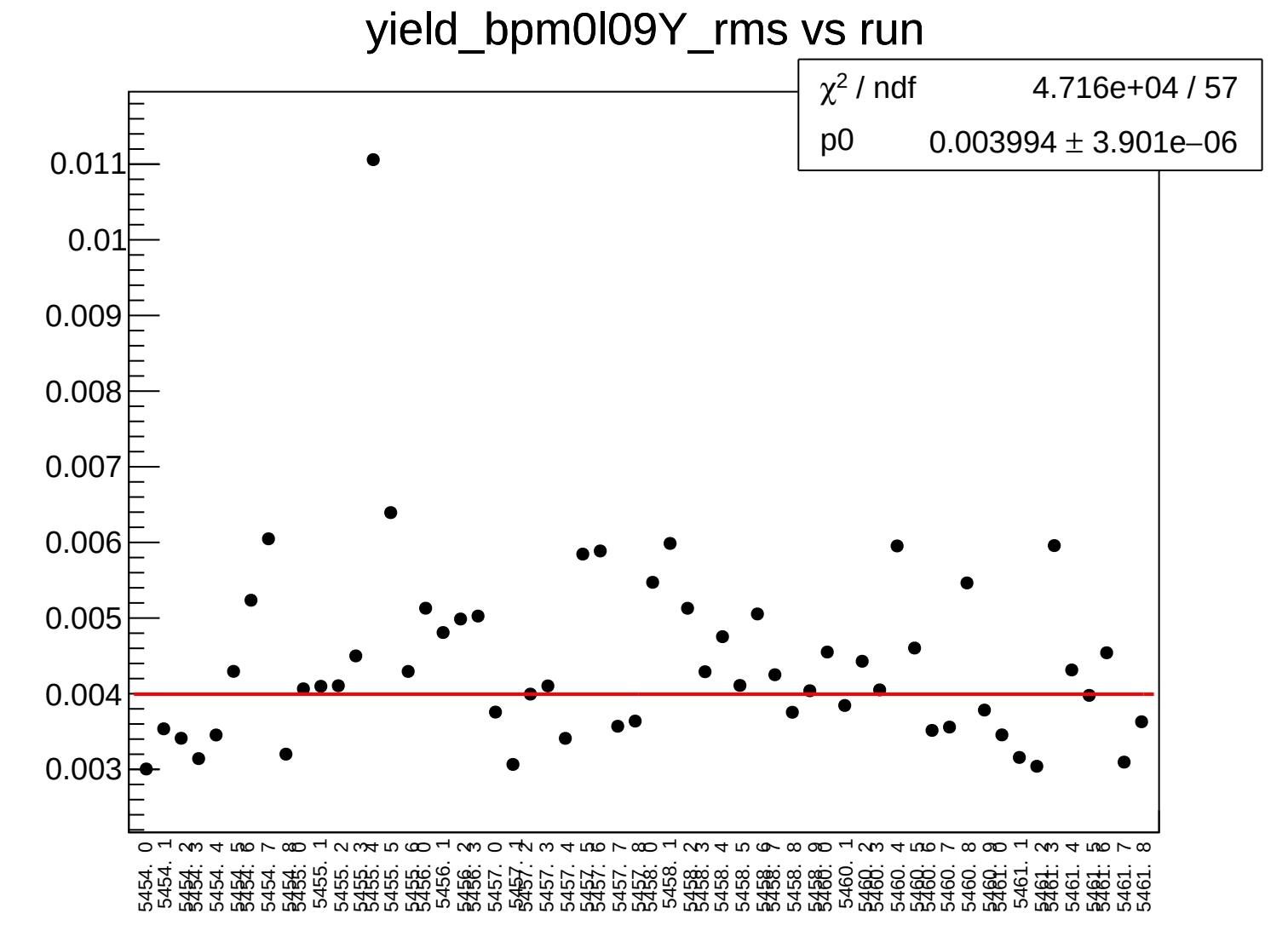

yield_bpm0l09X_mean vs run
χ² / ndf 6.789e+04 / 57
p0 0.902 ± 1.686e−05
0.915
0.91
0.905
0.9
0.895
pull
Entries 58
Mean −5.252
Std Dev 42.51
80
60
40
20
0
−20
−40
−60

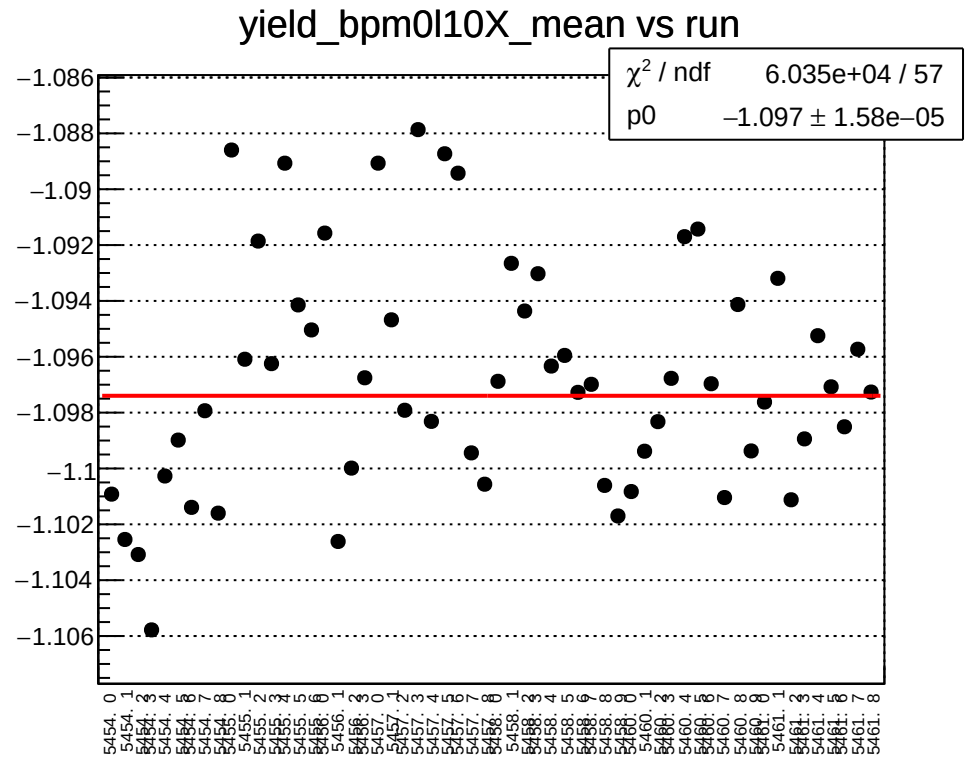

pull1D
Entries 58
Mean 0.1993
Std Dev 4.927
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

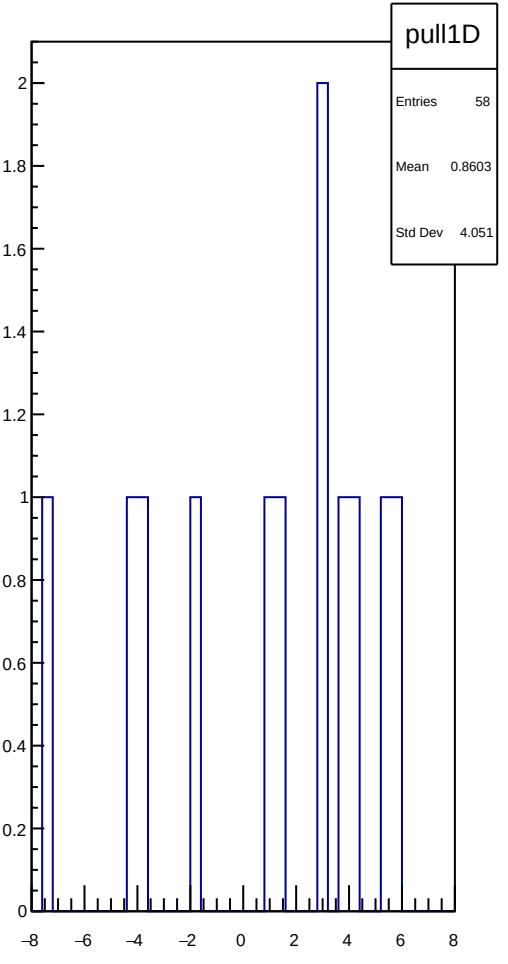

yield_bpm0l09X_rms vs run
χ² / ndf 1.861e+04 / 57
p0 0.01237 ± 1.192e–05
0.02
0.018
0.016
0.014
0.012
0.01

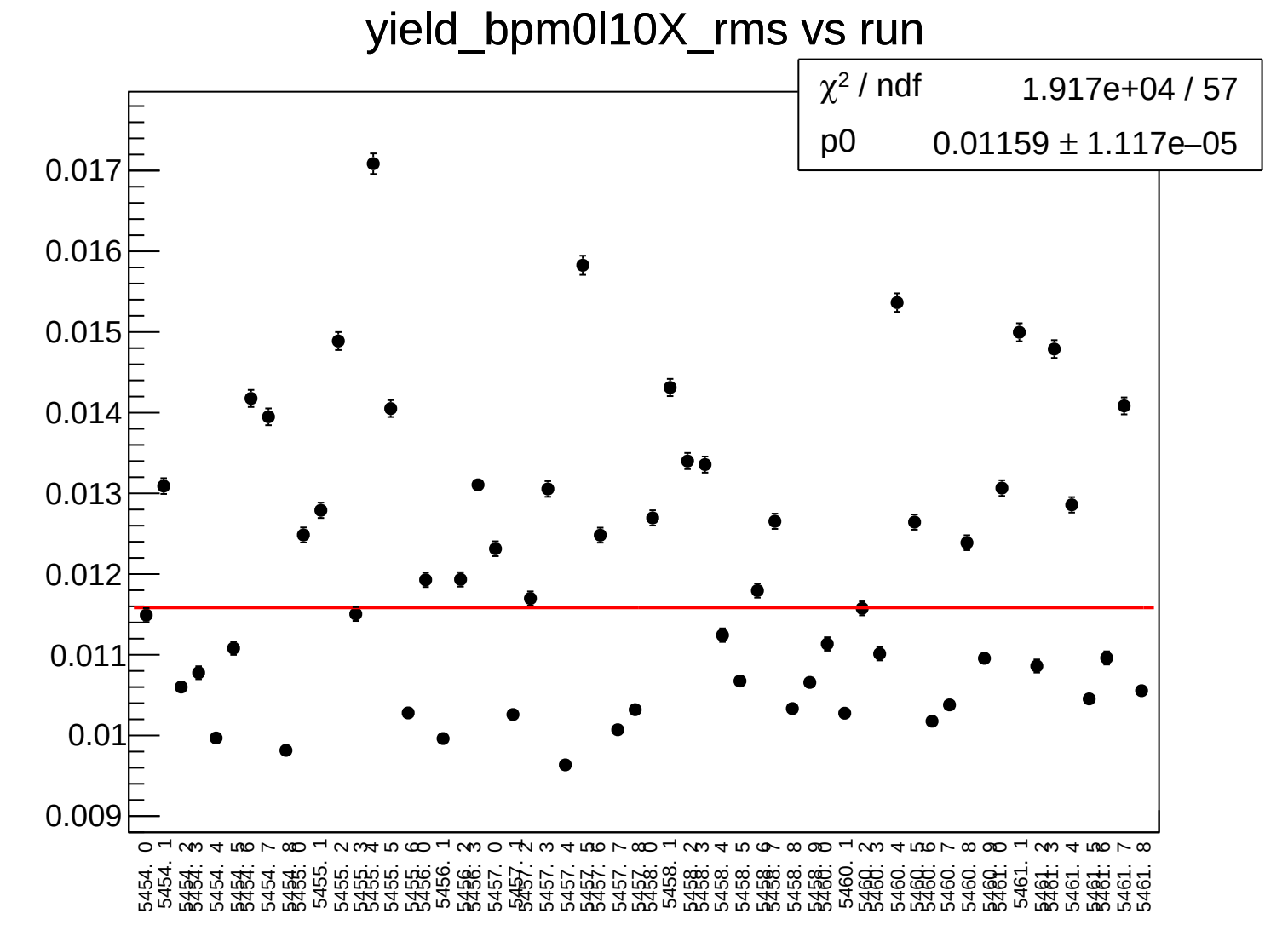

yield_bpm0l09Y_mean vs run
χ² / ndf 2.399e+06 / 57
p0 −0.08638 ± 5.518e−06
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
pull
Entries 58
Mean 2054
Std Dev 2026
400
300
200
100
0
−100
−200
−300
−400
−500

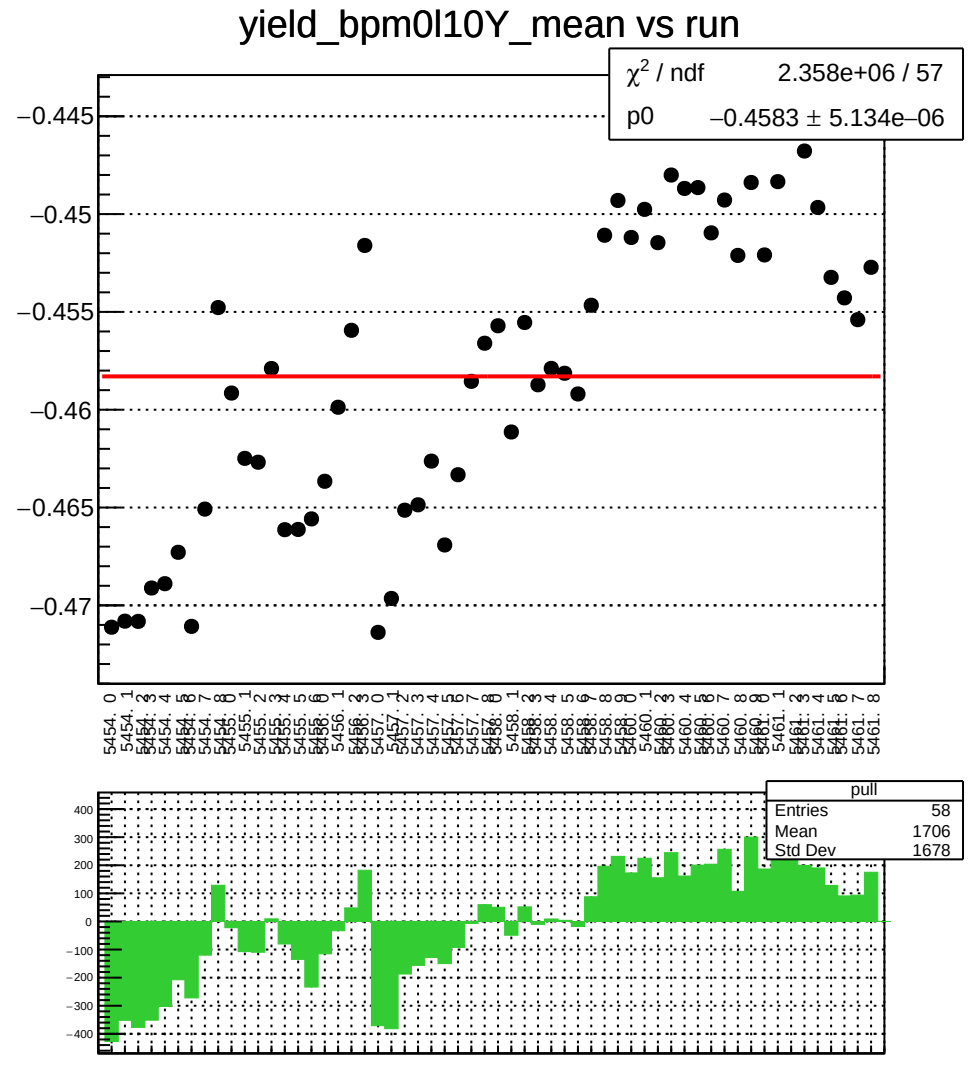

pull1D
Entries 58
Mean −0.6724
Std Dev 2.382
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

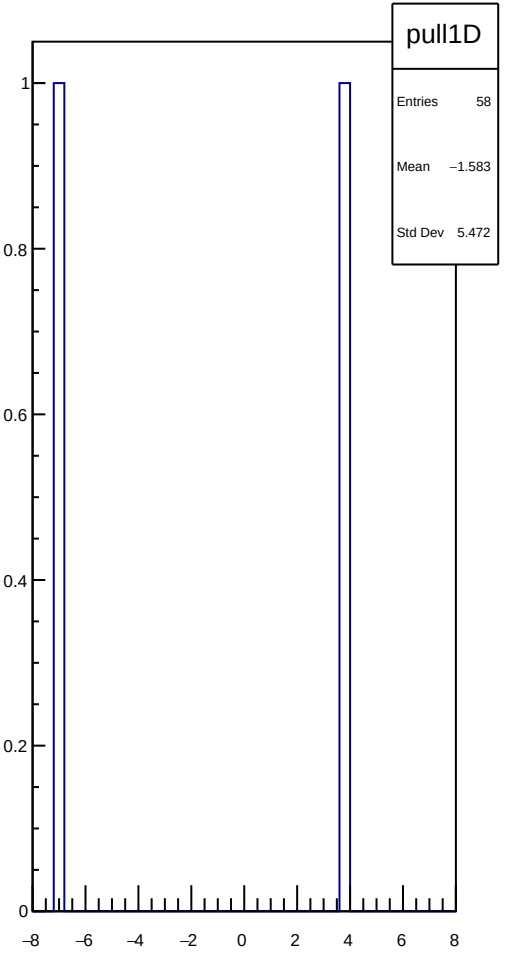

yield_bpm0l09Y_rms vs run
χ² / ndf 4.716e+04 / 57
p0 0.003994 ± 3.901e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

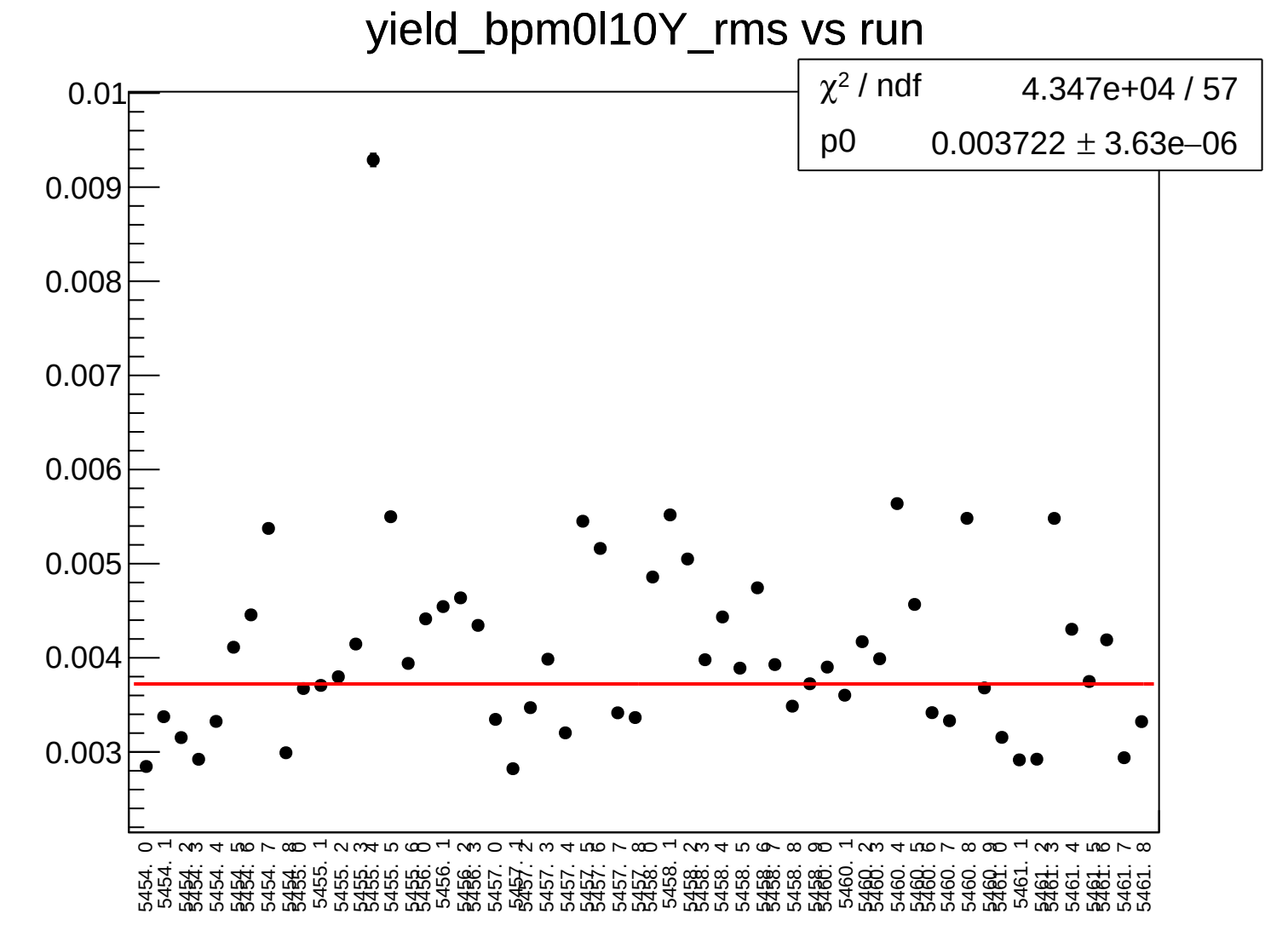

yield_bpm0l10X_mean vs run
χ² / ndf 6.035e+04 / 57
p0 −1.097 ± 1.58e−05
−1.086
−1.088
−1.09
−1.092
−1.094
−1.096
−1.098
−1.1
−1.102
−1.104
−1.106
pull
Entries 58
Mean 48.65
Std Dev 34.48
60
40
20
0
−20
−40
−60
−80

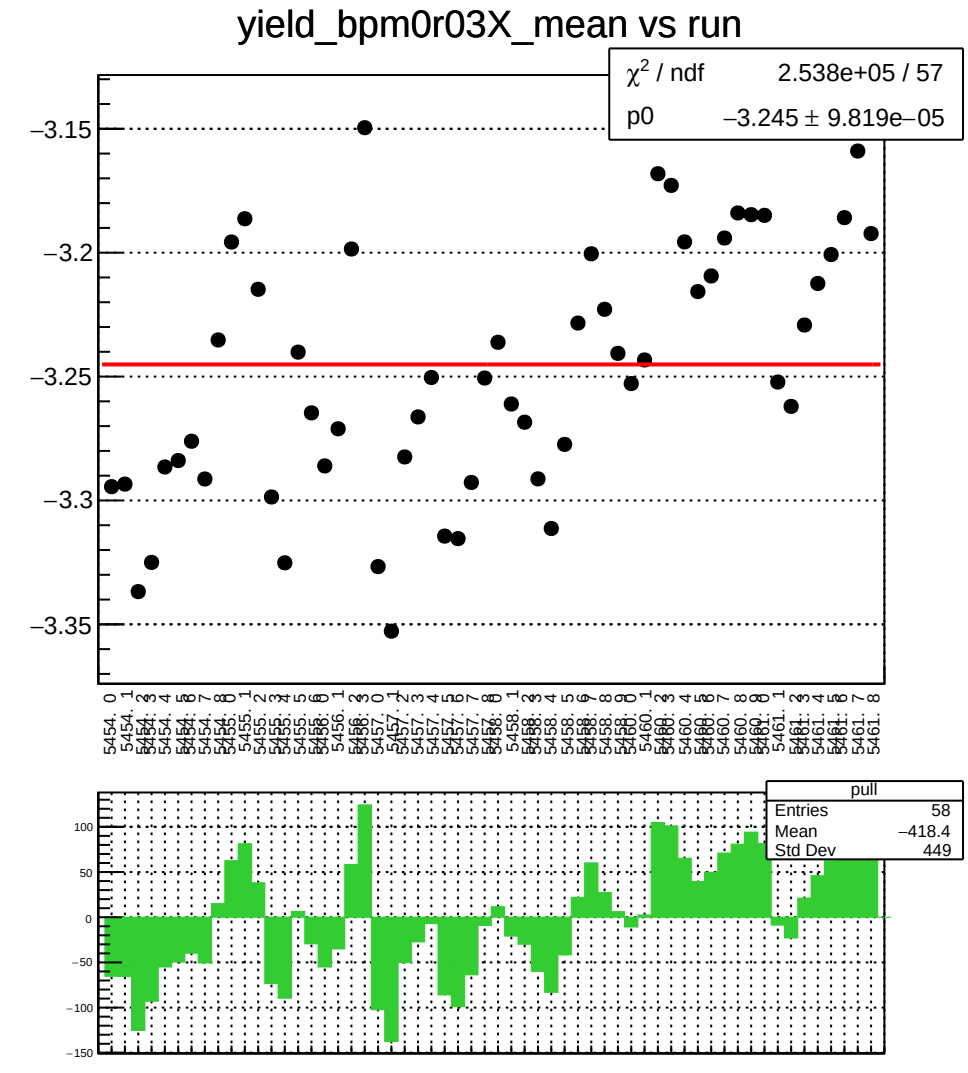

pull1D
Entries 58
Mean 0.8603
Std Dev 4.051
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

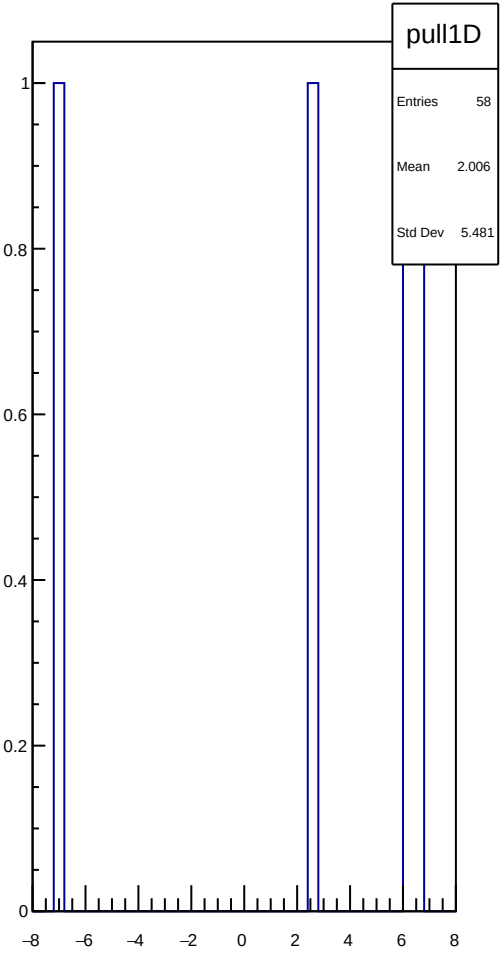

yield_bpm0l10X_rms vs run
χ² / ndf 1.917e+04 / 57
p0 0.01159 ± 1.117e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

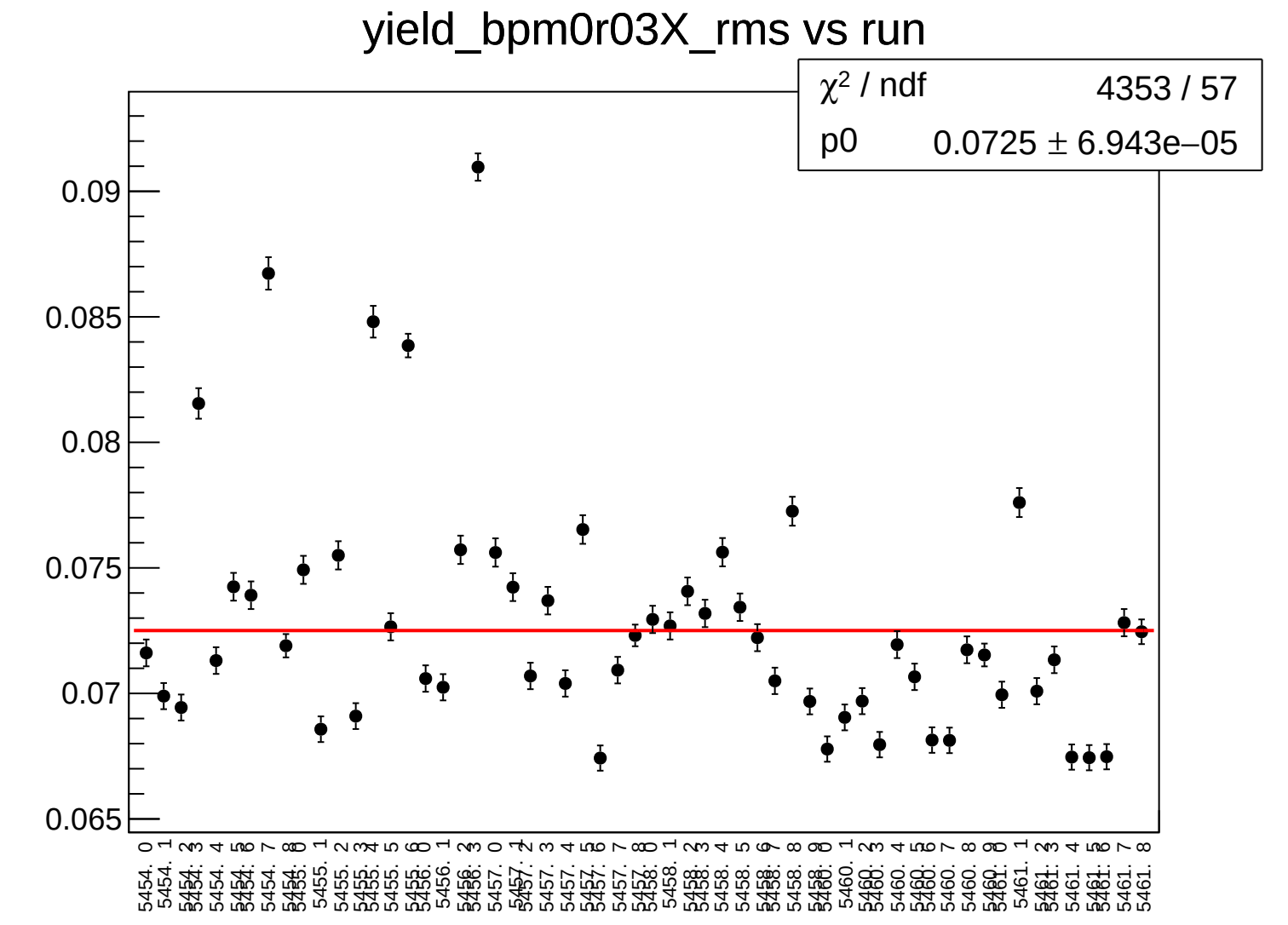

yield_bpm0l10Y_mean vs run
χ² / ndf 2.358e+06 / 57
p0 −0.4583 ± 5.134e−06
−0.445
−0.45
−0.455
−0.46
−0.465
−0.47
pull
Entries 58
Mean 1706
Std Dev 1678
400
300
200
100
0
−100
−200
−300
−400

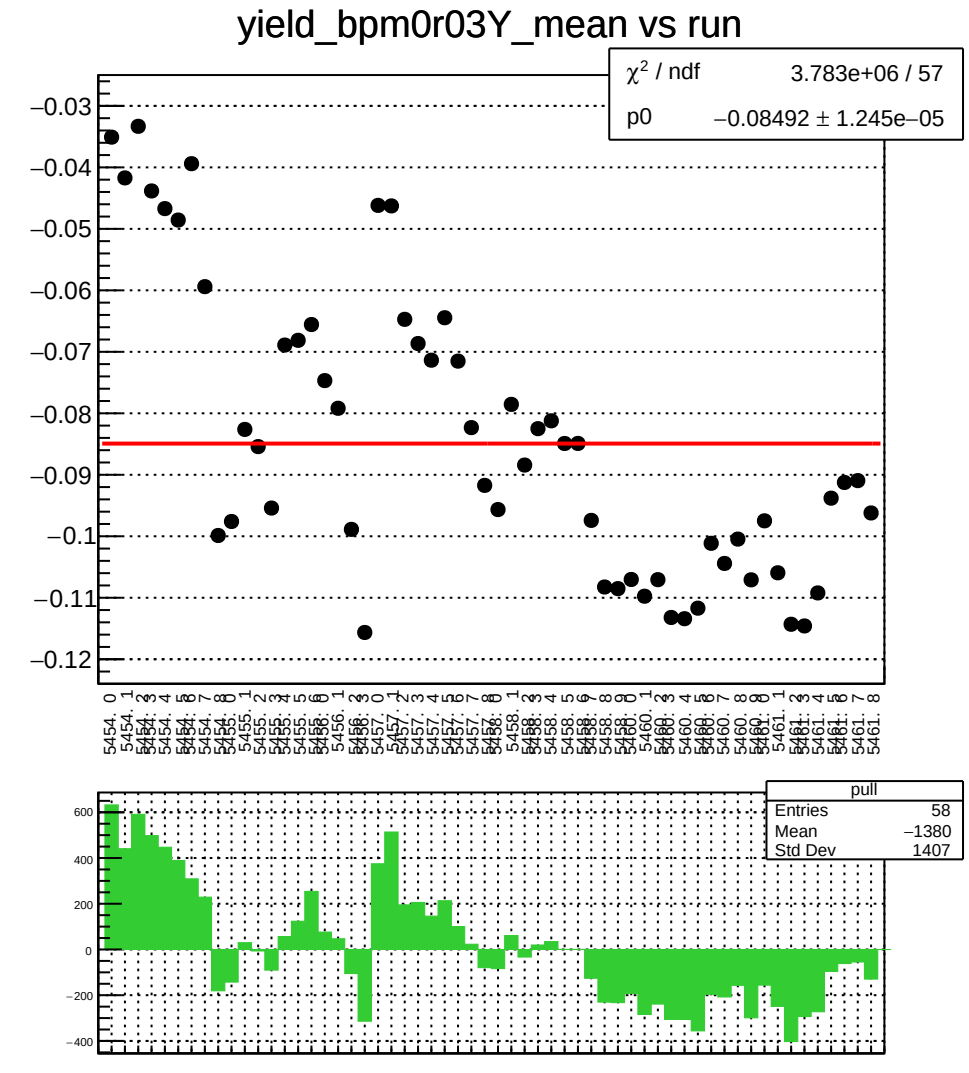

pull1D
Entries 58
Mean −1.583
Std Dev 5.472
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

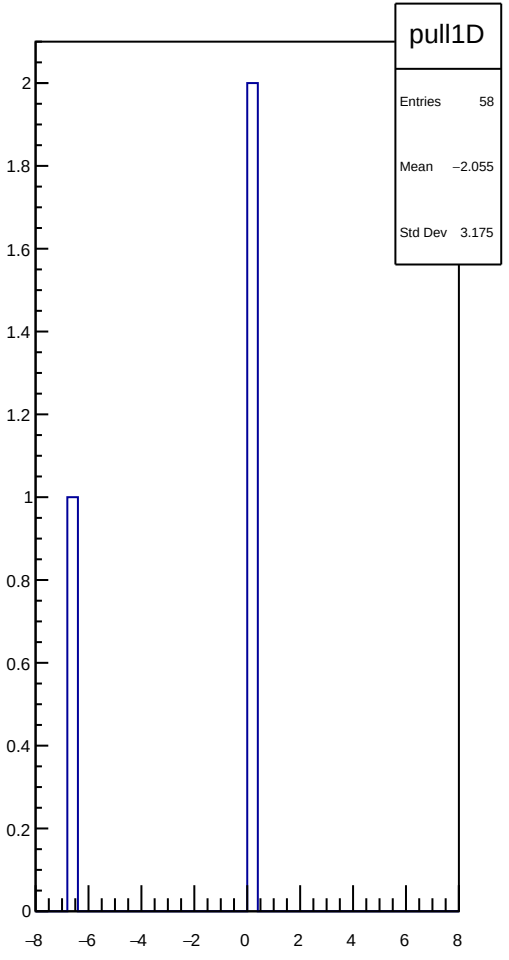

yield_bpm0l10Y_rms vs run
χ² / ndf 4.347e+04 / 57
p0 0.003722 ± 3.63e–06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

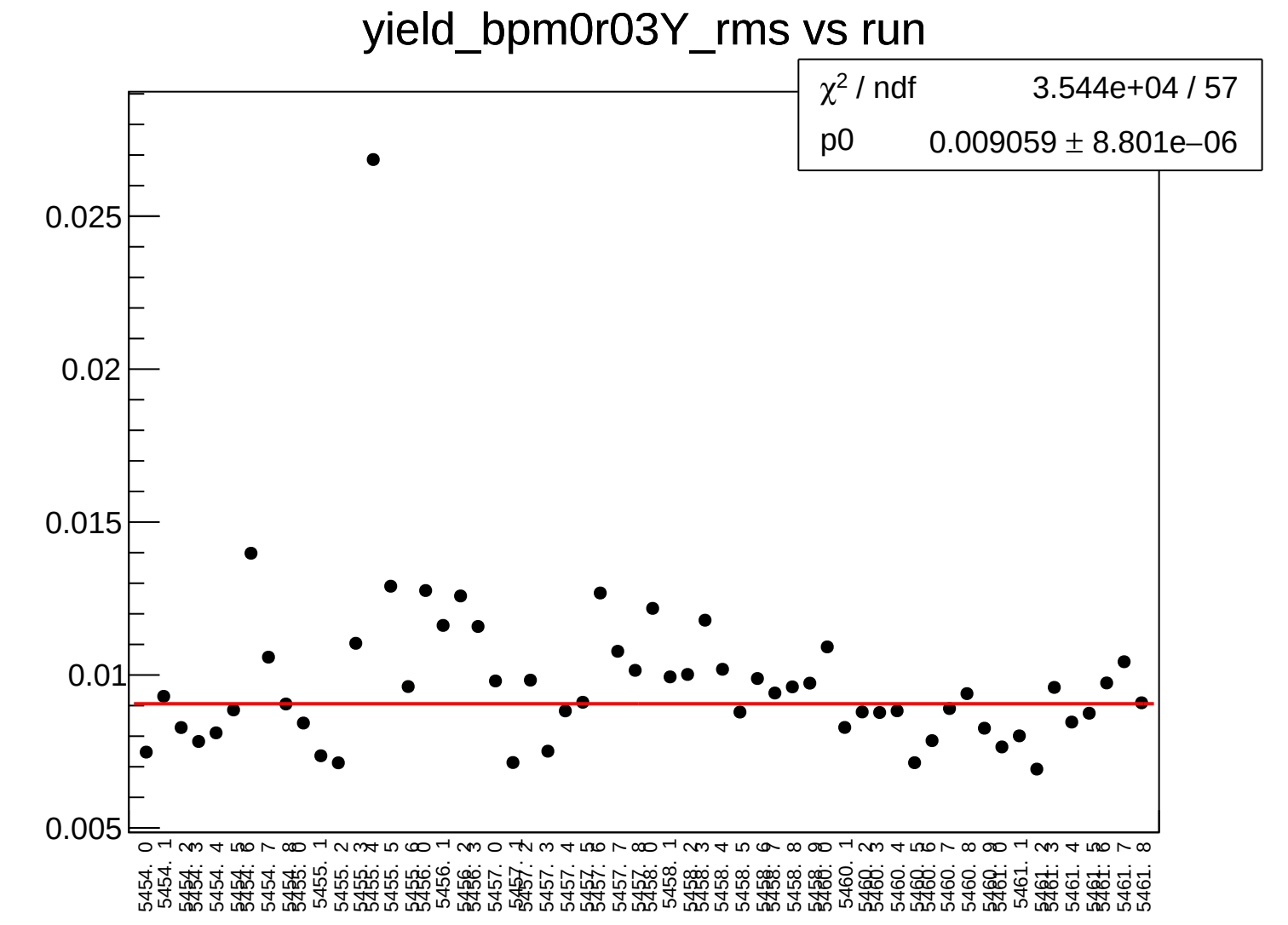

yield_bpm0r03X_mean vs run
χ² / ndf 2.538e+05 / 57
p0 −3.245 ± 9.819e−05
−3.15
−3.2
−3.25
−3.3
−3.35
pull
Entries 58
Mean −418.4
Std Dev 449
100
50
0
−50
−100
−150

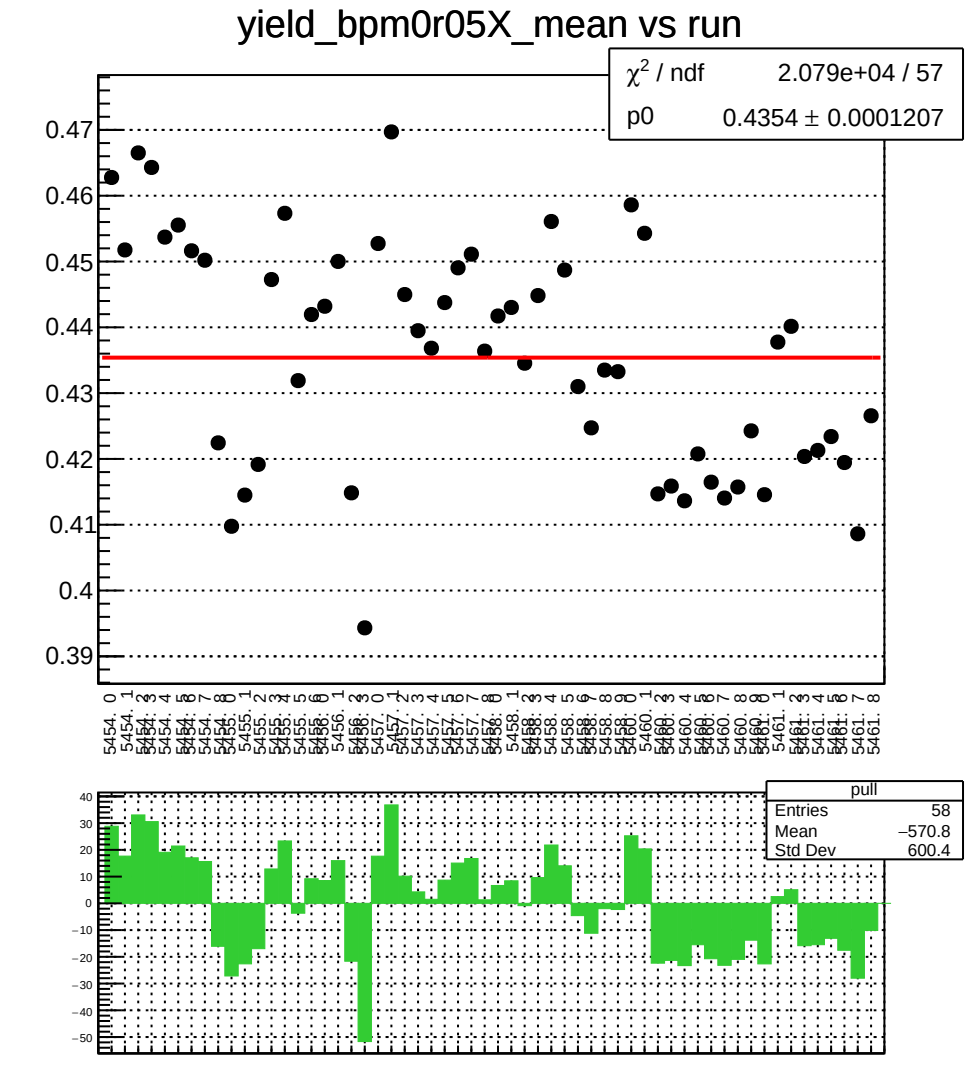

pull1D
Entries 58
Mean 2.006
Std Dev 5.481
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

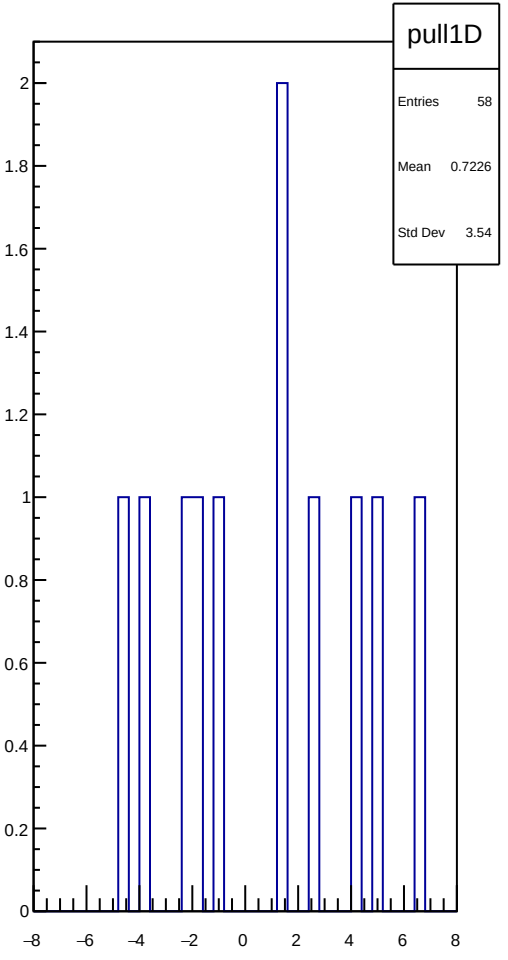

yield_bpm0r03X_rms vs run
χ² / ndf 4353 / 57
p0 0.0725 ± 6.943e−05
0.09
0.085
0.08
0.075
0.07
0.065

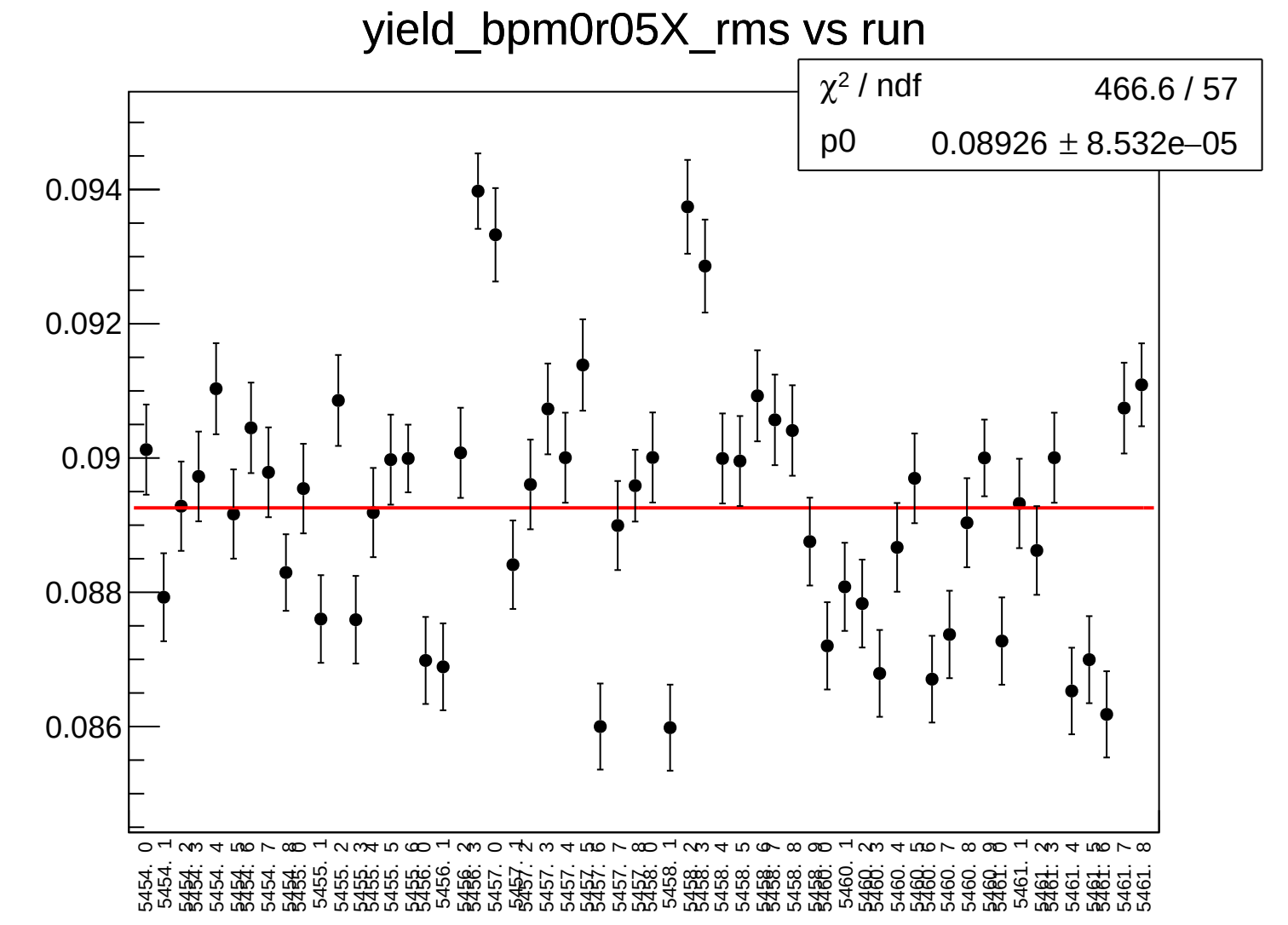

yield_bpm0r03Y_mean vs run
χ² / ndf 3.783e+06 / 57
p0 −0.08492 ± 1.245e−05
pull
Entries 58
Mean −1380
Std Dev 1407

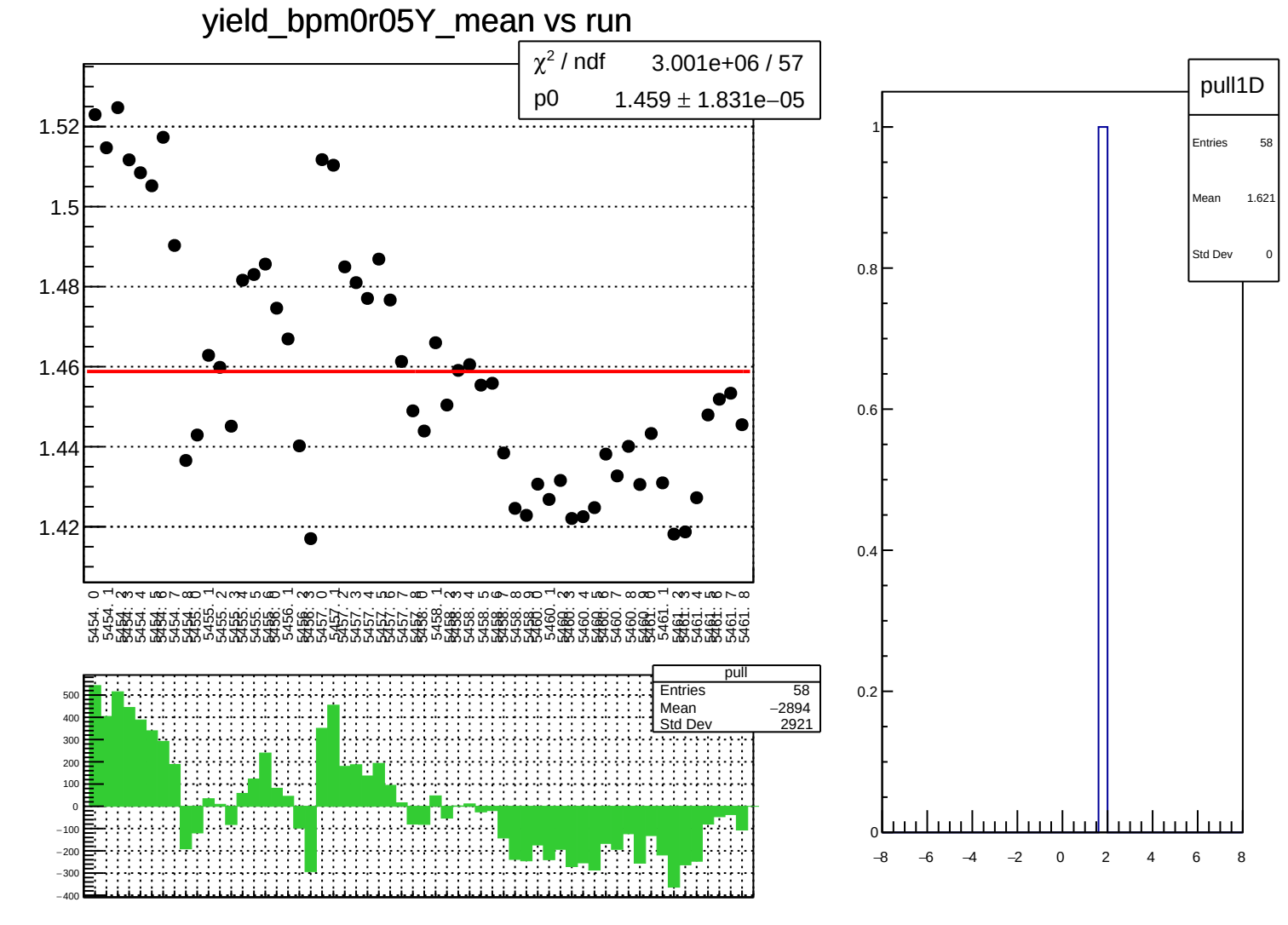

pull1D
Entries 58
Mean −2.055
Std Dev 3.175

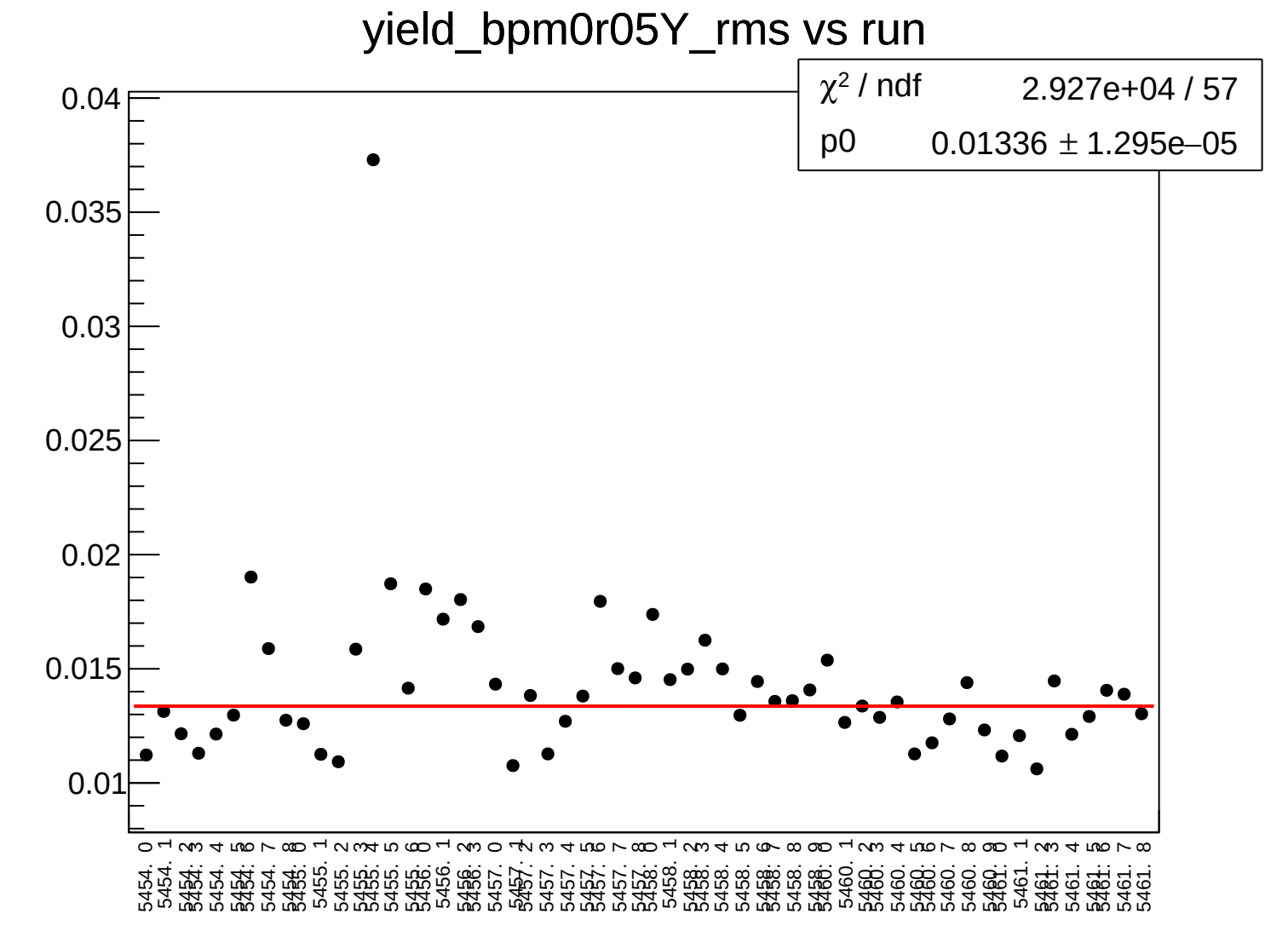

yield_bpm0r03Y_rms vs run
χ² / ndf 3.544e+04 / 57
p0 0.009059 ± 8.801e−06
0.025
0.02
0.015
0.01
0.005

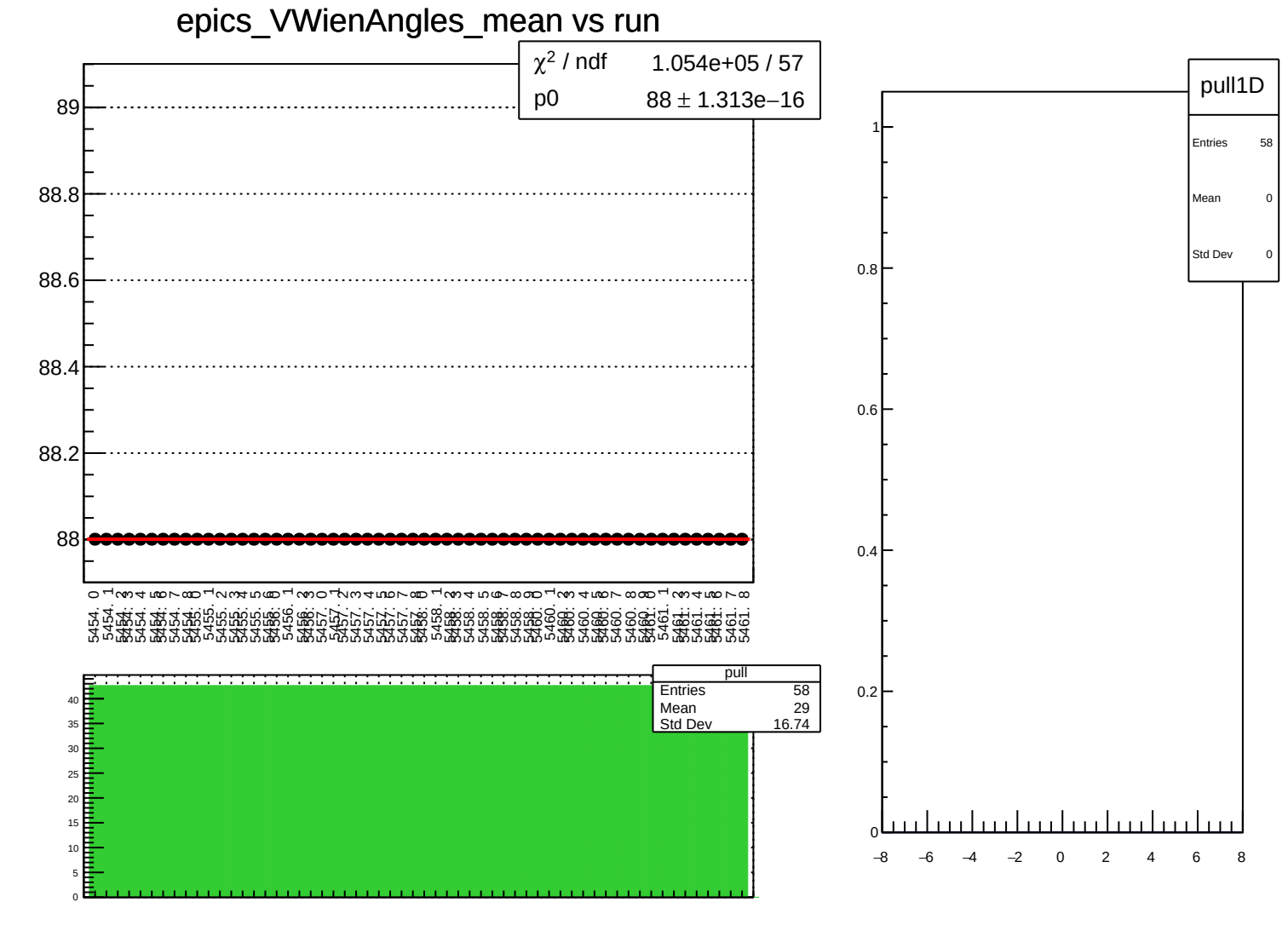

yield_bpm0r05X_mean vs run
χ² / ndf 2.079e+04 / 57
p0 0.4354 ± 0.0001207
0.47
0.46
0.45
0.44
0.43
0.42
0.41
0.4
0.39
pull
Entries 58
Mean −570.8
Std Dev 600.4
40
30
20
10
0
−10
−20
−30
−40
−50

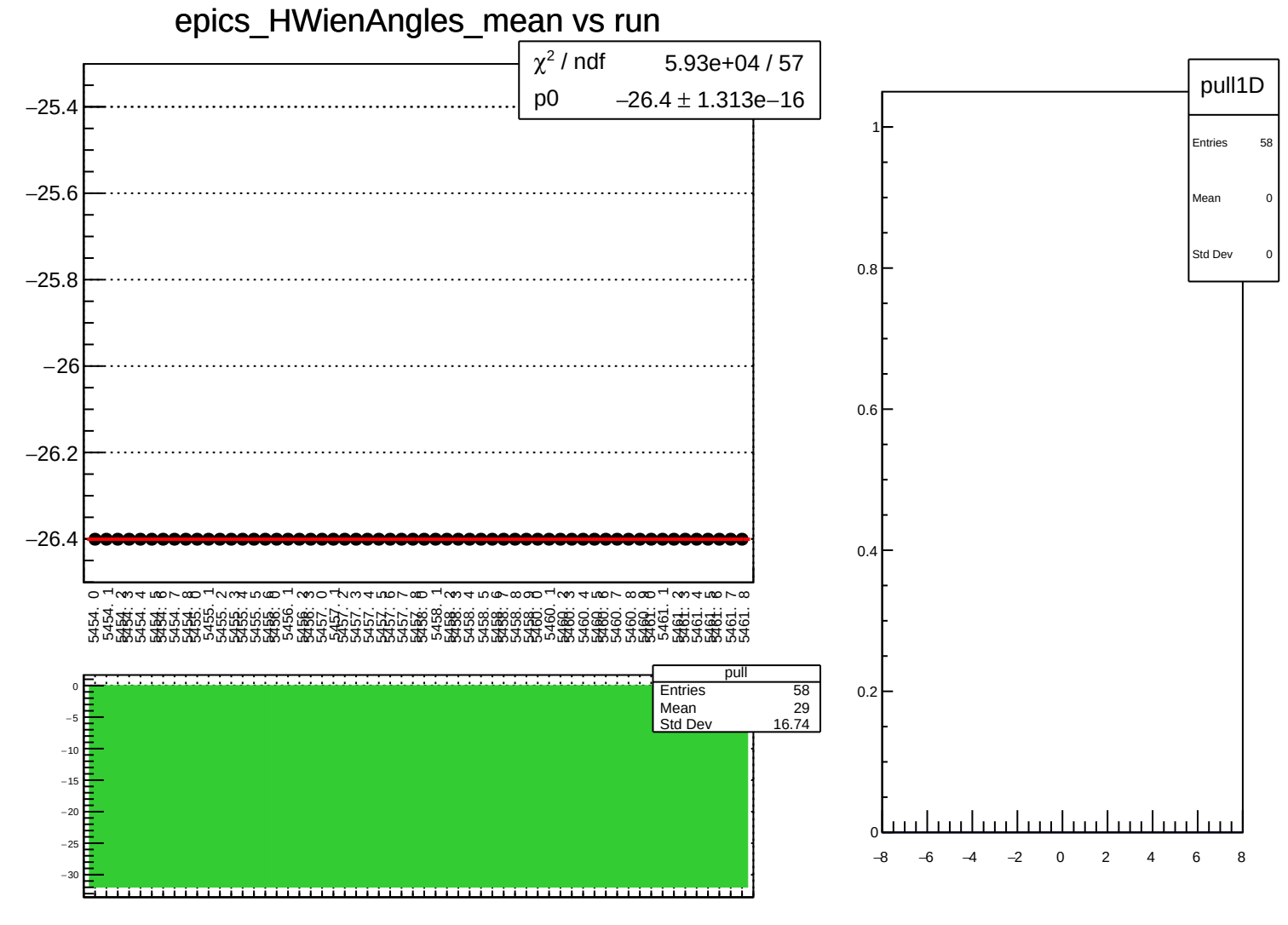

pull1D
Entries 58
Mean 0.7226
Std Dev 3.54
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

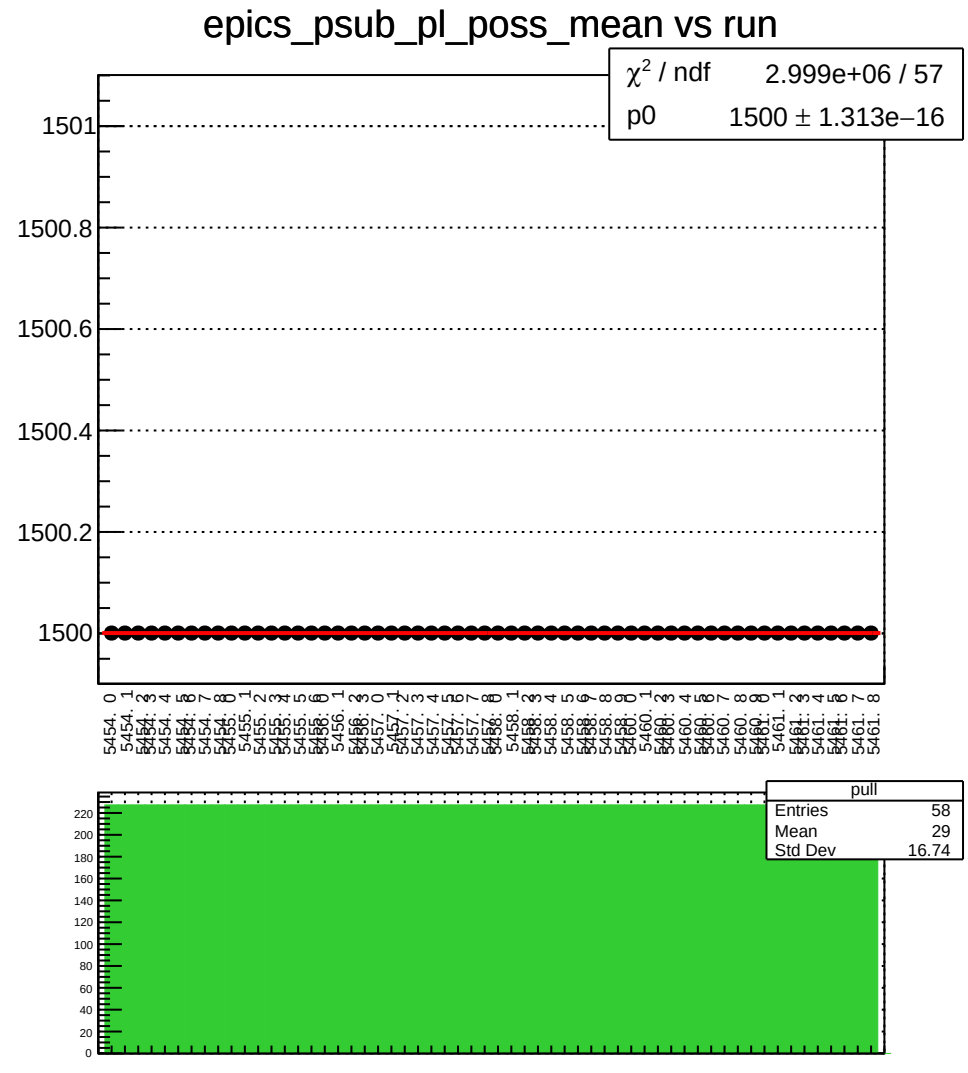

yield_bpm0r05X_rms vs run
χ² / ndf 466.6 / 57
p0 0.08926 ± 8.532e–05
0.094
0.092
0.09
0.088
0.086

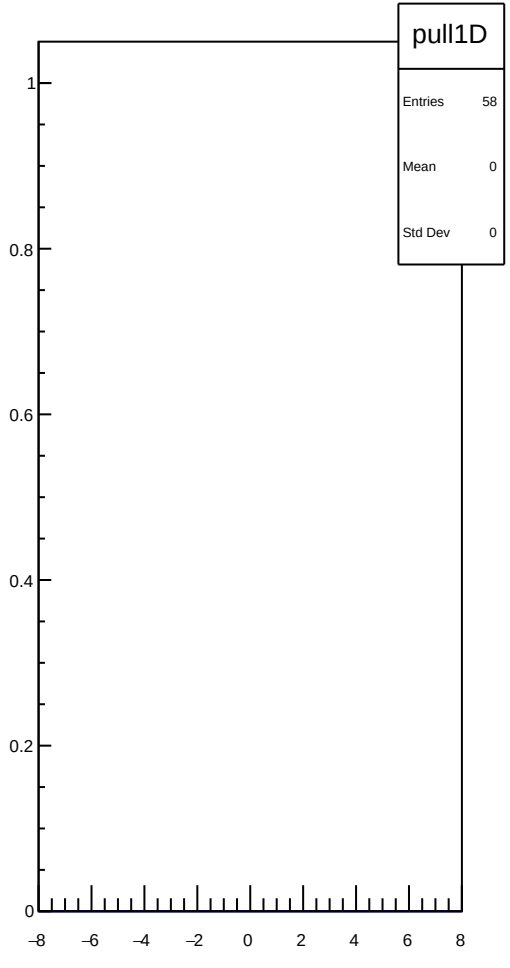

yield_bpm0r05Y_mean vs run
χ² / ndf 3.001e+06 / 57
p0 1.459 ± 1.831e−05
1.52
1.5
1.48
1.46
1.44
1.42
pull
Entries 58
Mean −2894
Std Dev 2921
500
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 58
Mean 1.621
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

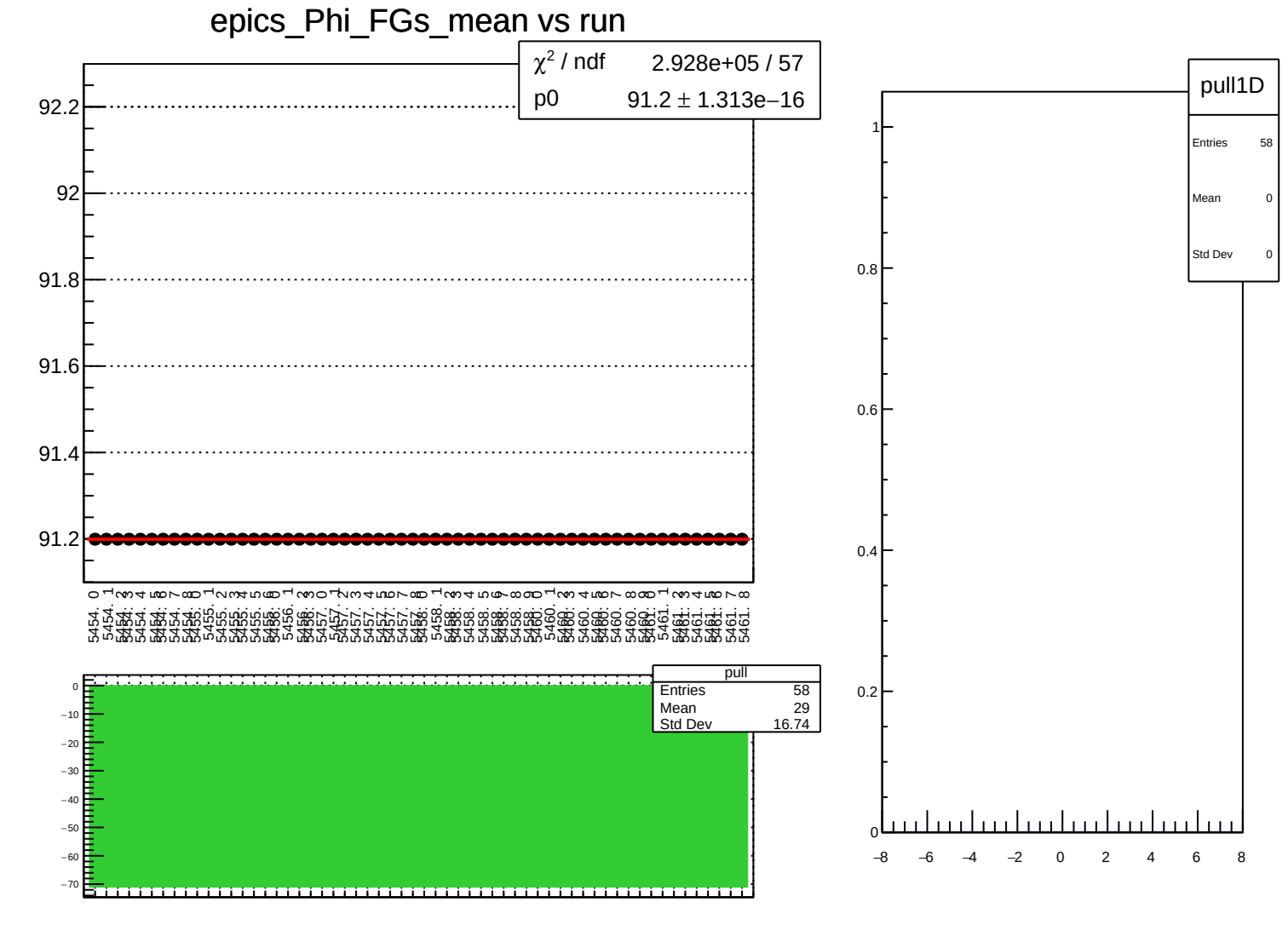

yield_bpm0r05Y_rms vs run
χ² / ndf 2.927e+04 / 57
p0 0.01336 ± 1.295e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

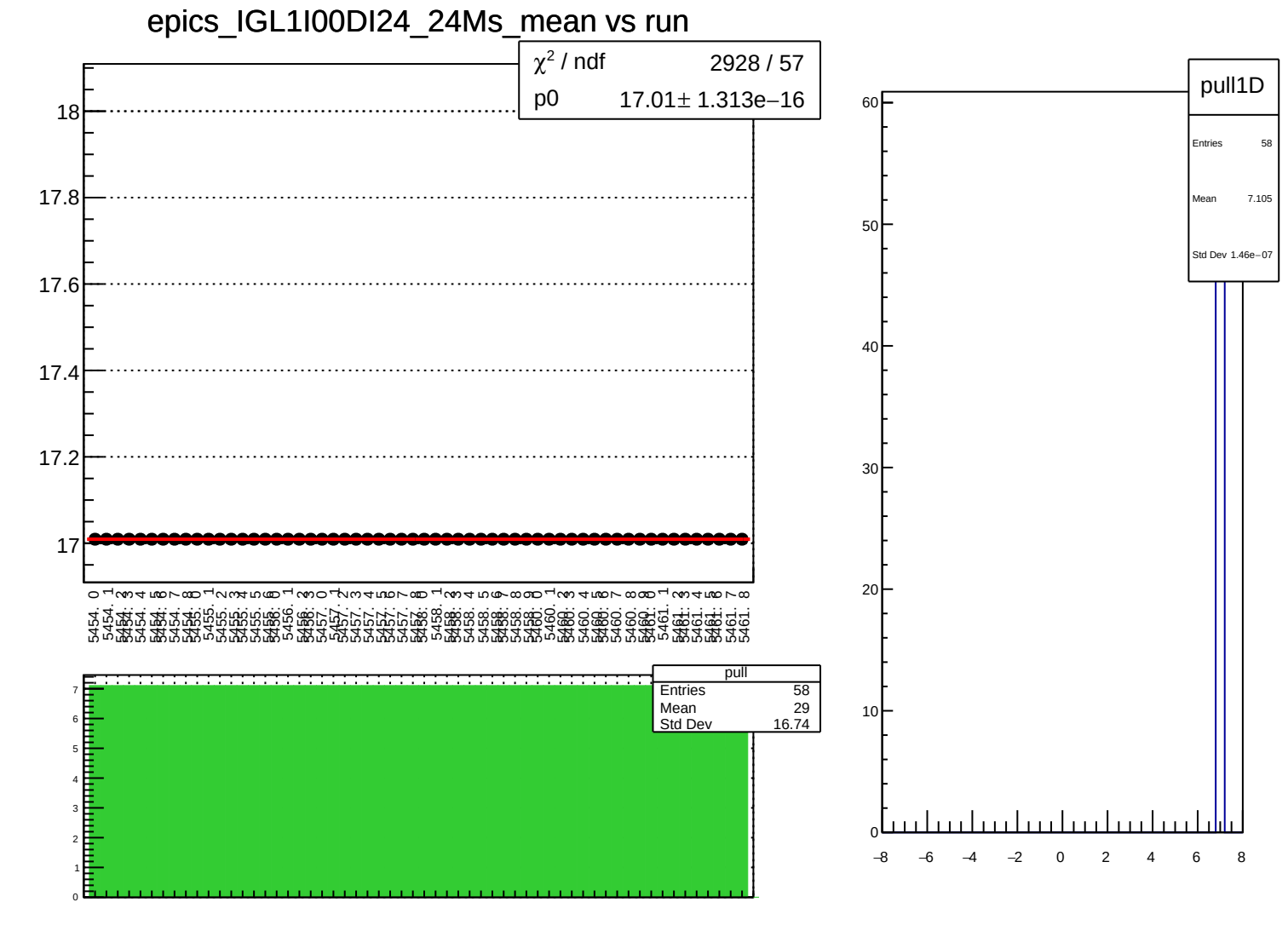

epics_VWienAngles_mean vs run
χ² / ndf 1.054e+05 / 57
p0 88 ± 1.313e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 58
Mean 29
Std Dev 16.74
40
35
30
25
20
15
10
5
0
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

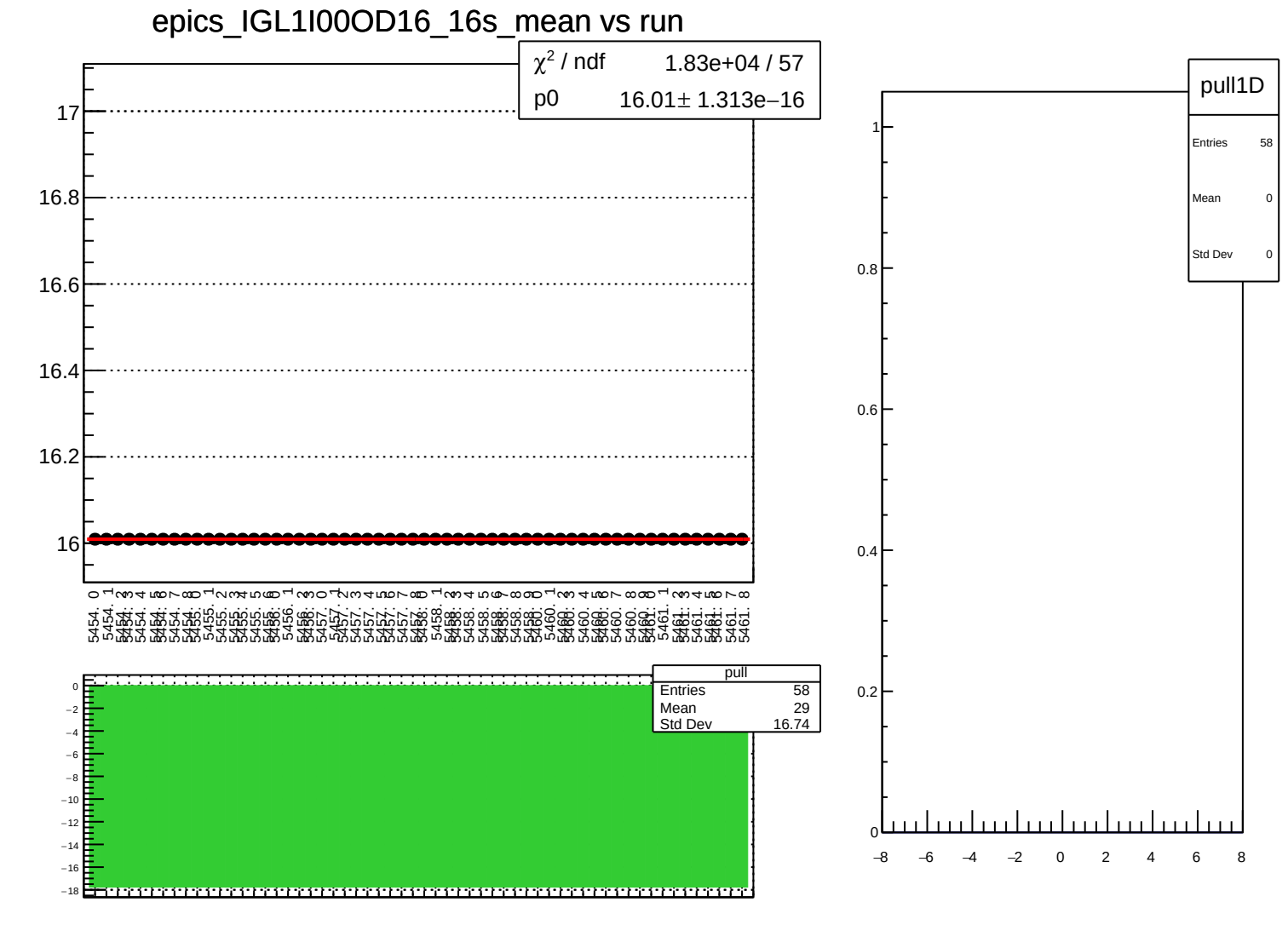

epics_HWienAngles_mean vs run
χ² / ndf 5.93e+04 / 57
p0 −26.4 ± 1.313e−16
−25.4
−25.6
−25.8
−26
−26.2
−26.4
pull
Entries 58
Mean 29
Std Dev 16.74
0
−5
−10
−15
−20
−25
−30
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

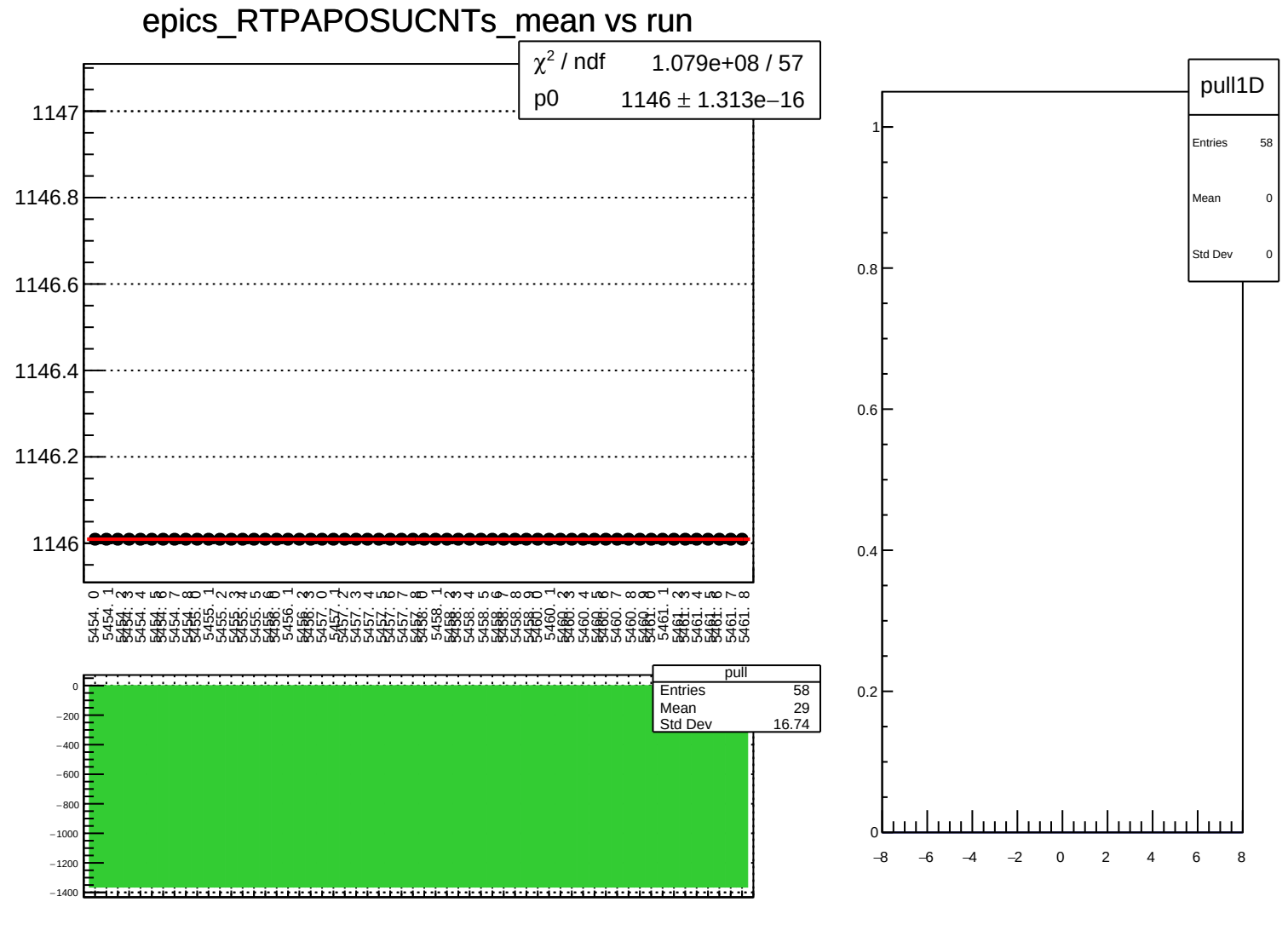

epics_psub_pl_poss_mean vs run
χ² / ndf 2.999e+06 / 57
p0 1500 ± 1.313e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 58
Mean 29
Std Dev 16.74
220
200
180
160
140
120
100
80
60
40
20
0

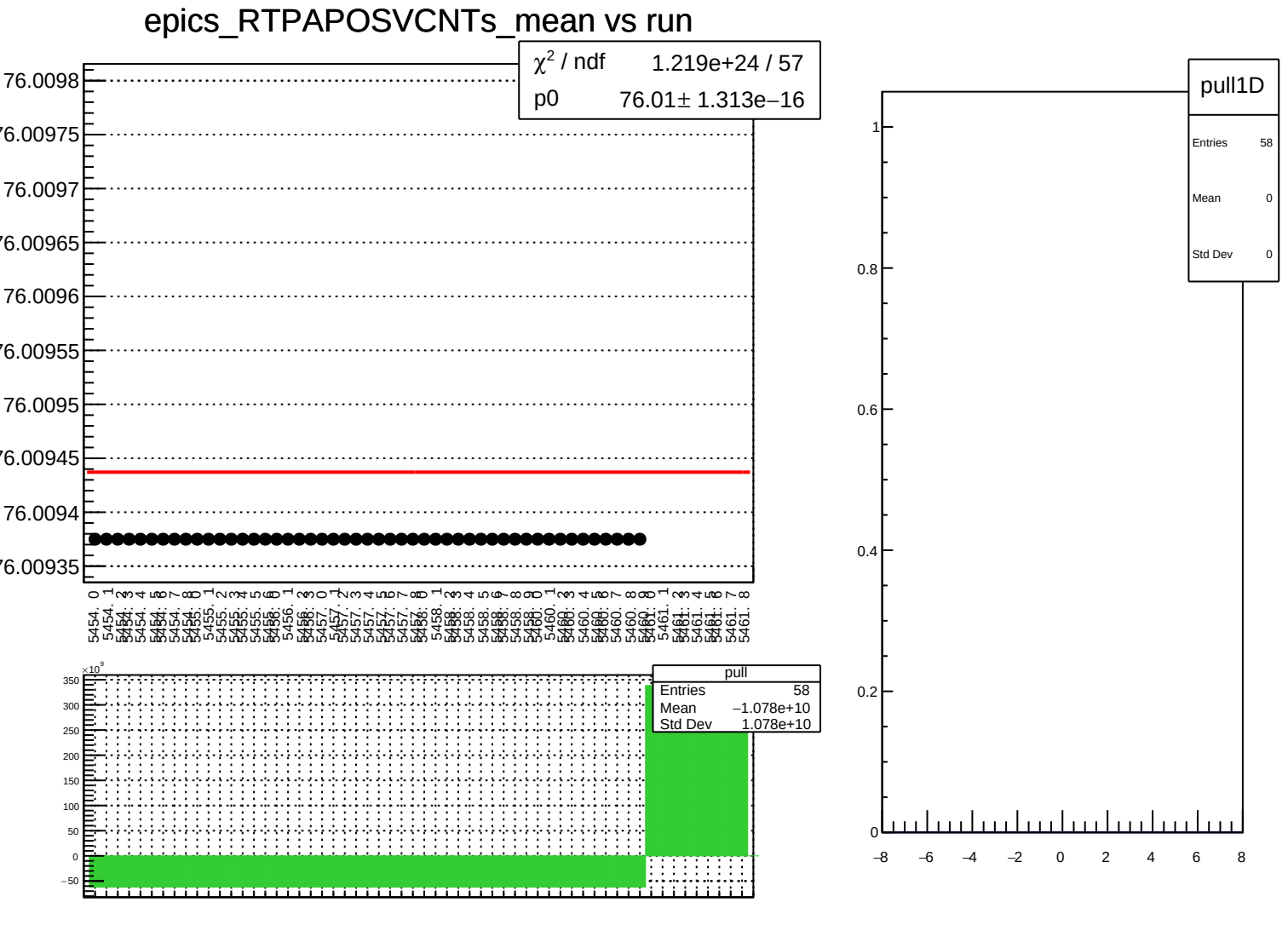

pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_Phi_FGs_mean vs run
χ² / ndf 2.928e+05 / 57
p0 91.2 ± 1.313e−16
92.2
92
91.8
91.6
91.4
91.2
pull
Entries 58
Mean 29
Std Dev 16.74
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 58
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 2928 / 57
p0 17.01± 1.313e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 58
Mean 29
Std Dev 16.74
pull1D
Entries 58
Mean 7.105
Std Dev 1.46e−07
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 1.83e+04 / 57
p0 16.01± 1.313e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 58
Mean 29
Std Dev 16.74
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.079e+08 / 57
p0 1146 ± 1.313e−16
1147
1146.8
1146.6
1146.4
1146.2
1146
pull
Entries 58
Mean 29
Std Dev 16.74
0
−200
−400
−600
−800
−1000
−1200
−1400
pull1D
Entries 58
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 1.219e+24 / 57
p0 76.01± 1.313e−16
76.0098
76.00975
76.0097
76.00965
76.0096
76.00955
76.0095
76.00945
76.0094
76.00935
pull
Entries 58
Mean −1.078e+10
Std Dev 1.078e+10
×10⁹
350
300
250
200
150
100
50
0
−50
pull1D
Entries 58
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8