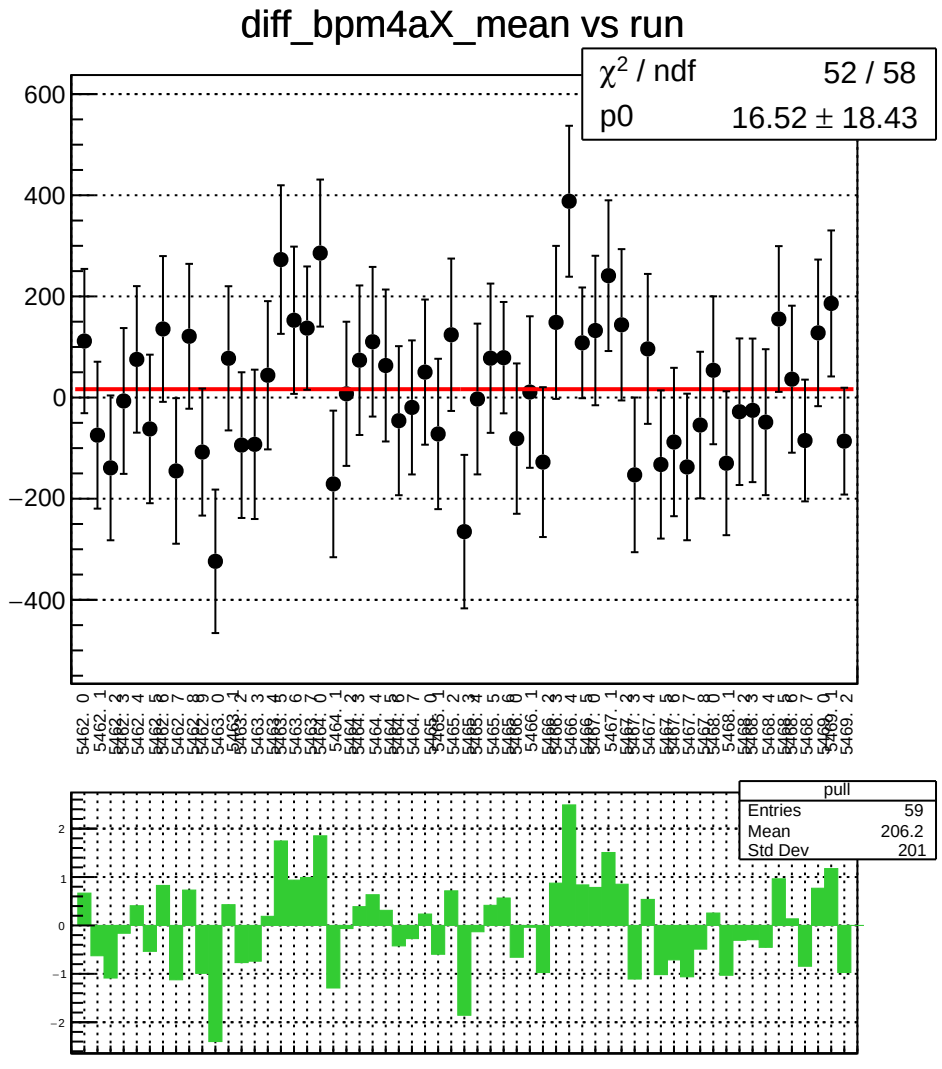
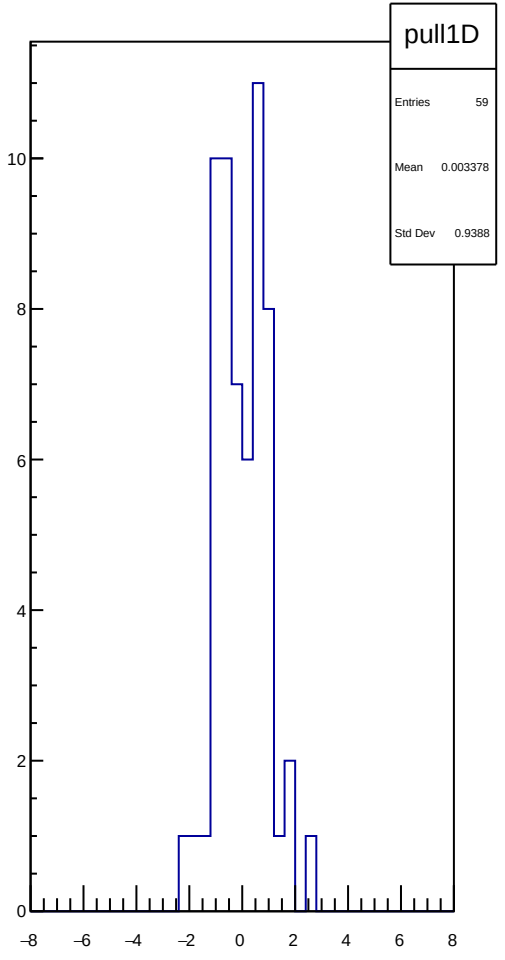
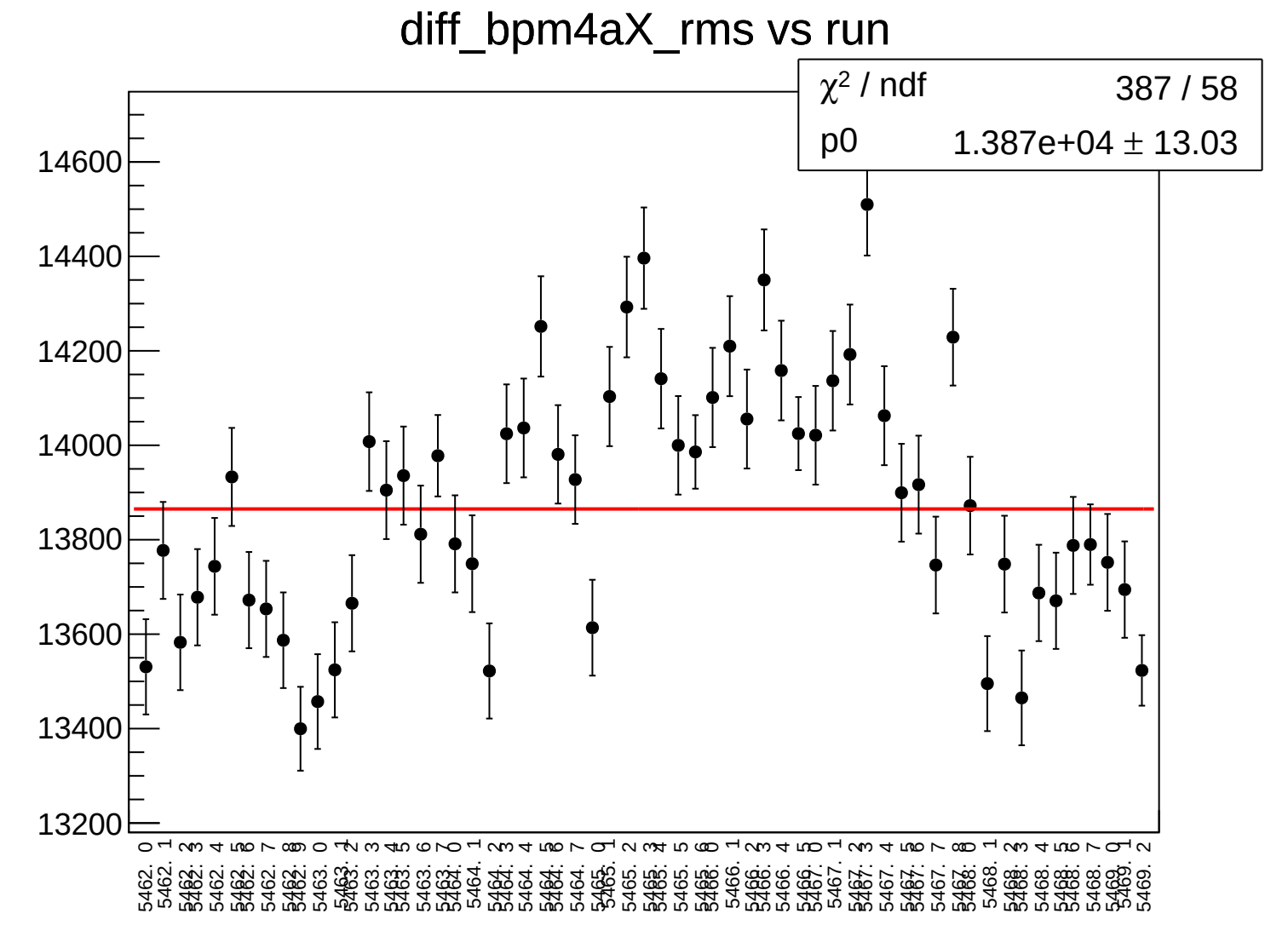
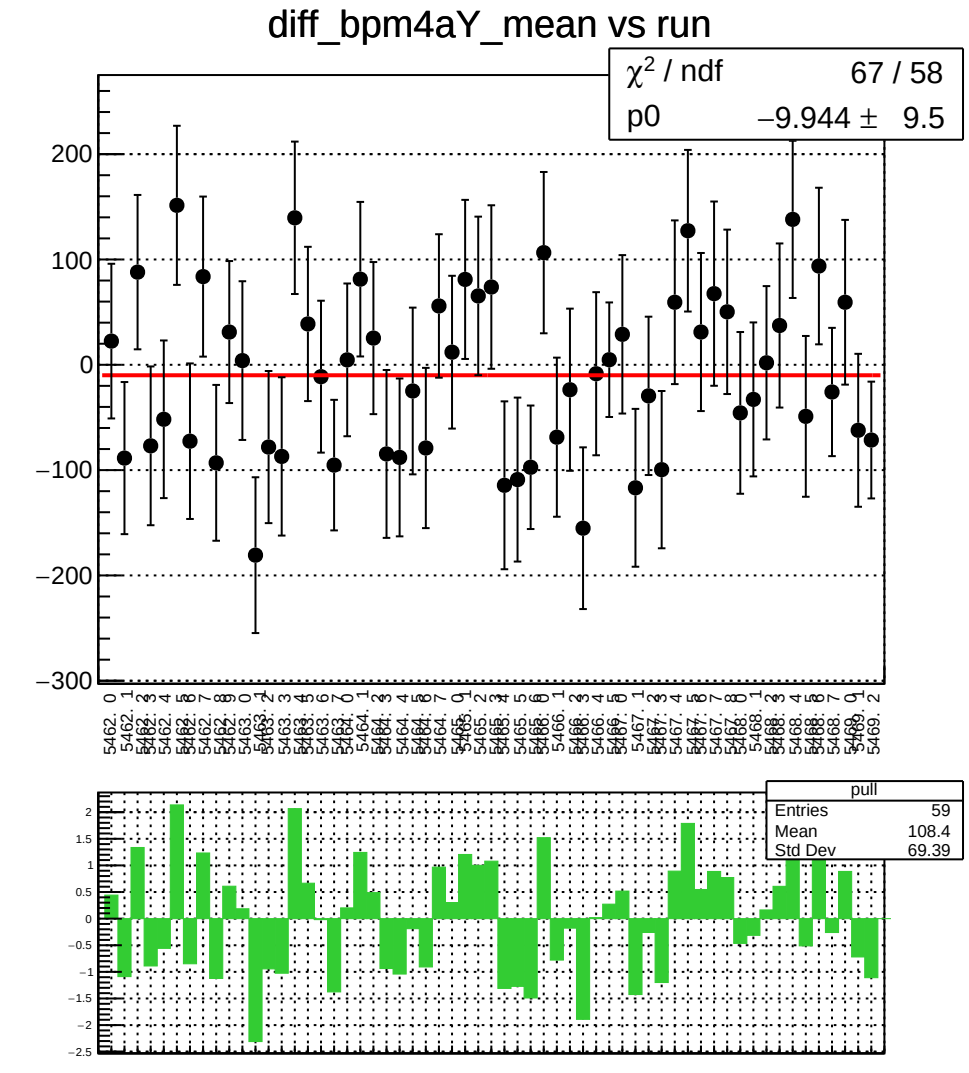
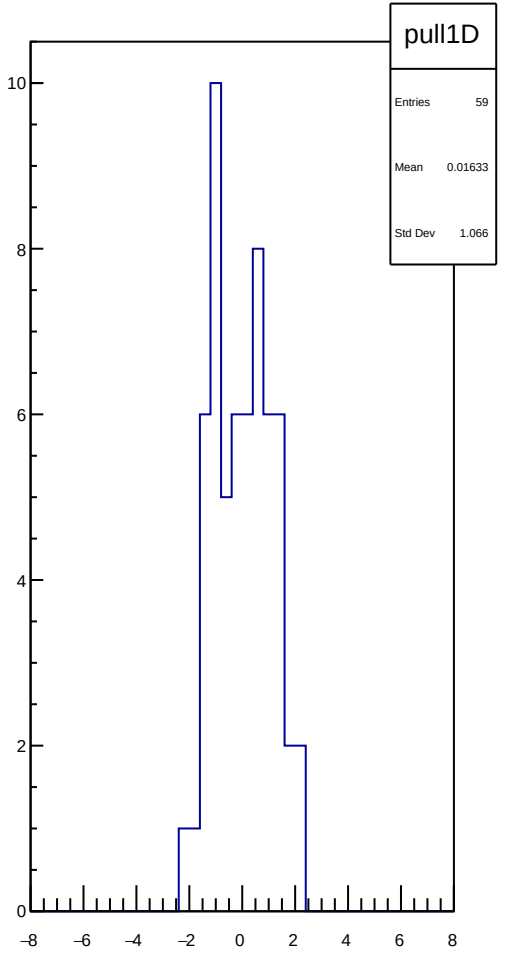
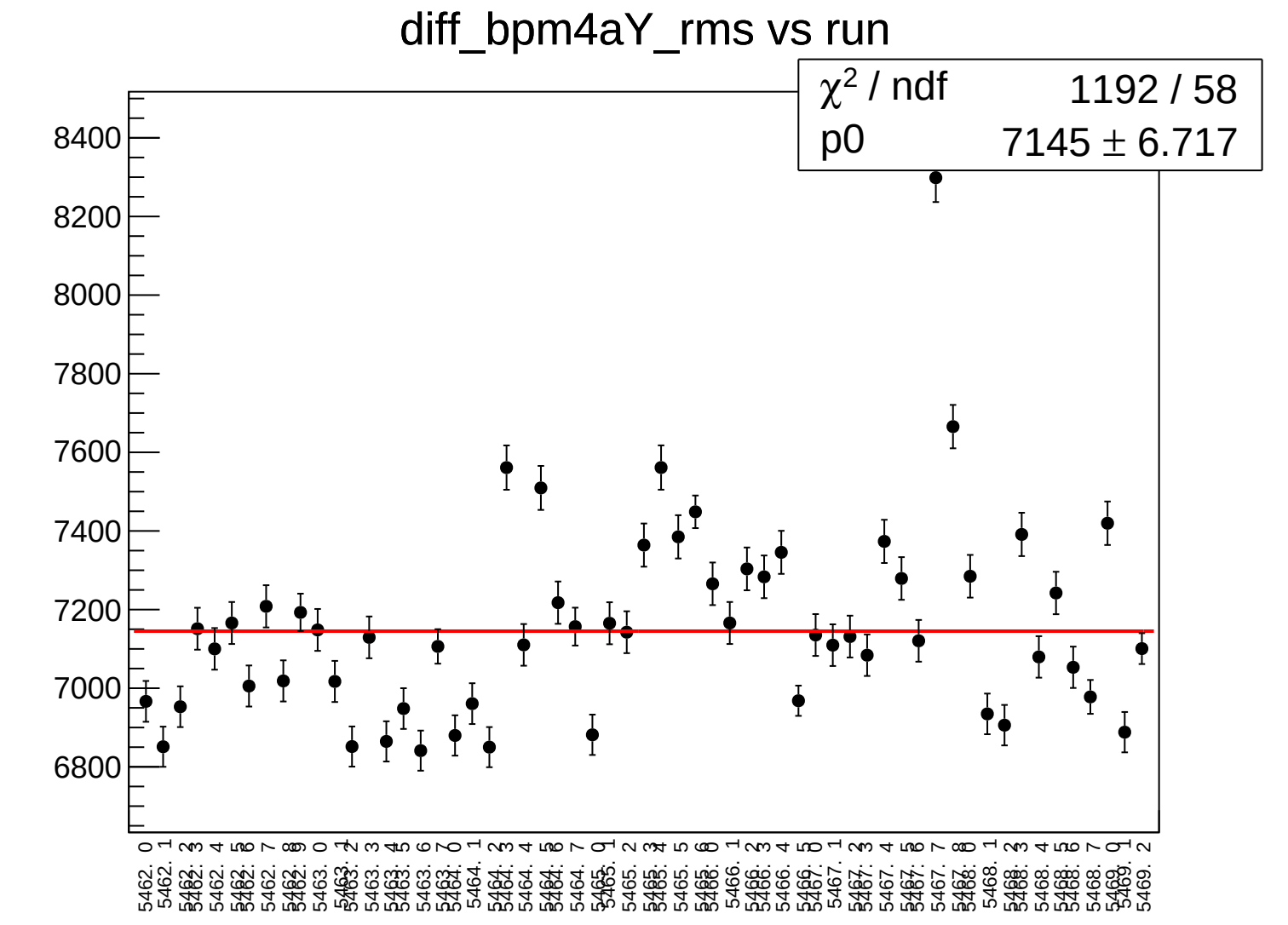

diff_bpm4aX_mean vs run
χ^2 / ndf 52 / 58
p0 16.52 ± 18.43
pull
Entries 59
Mean 206.2
Std Dev 201

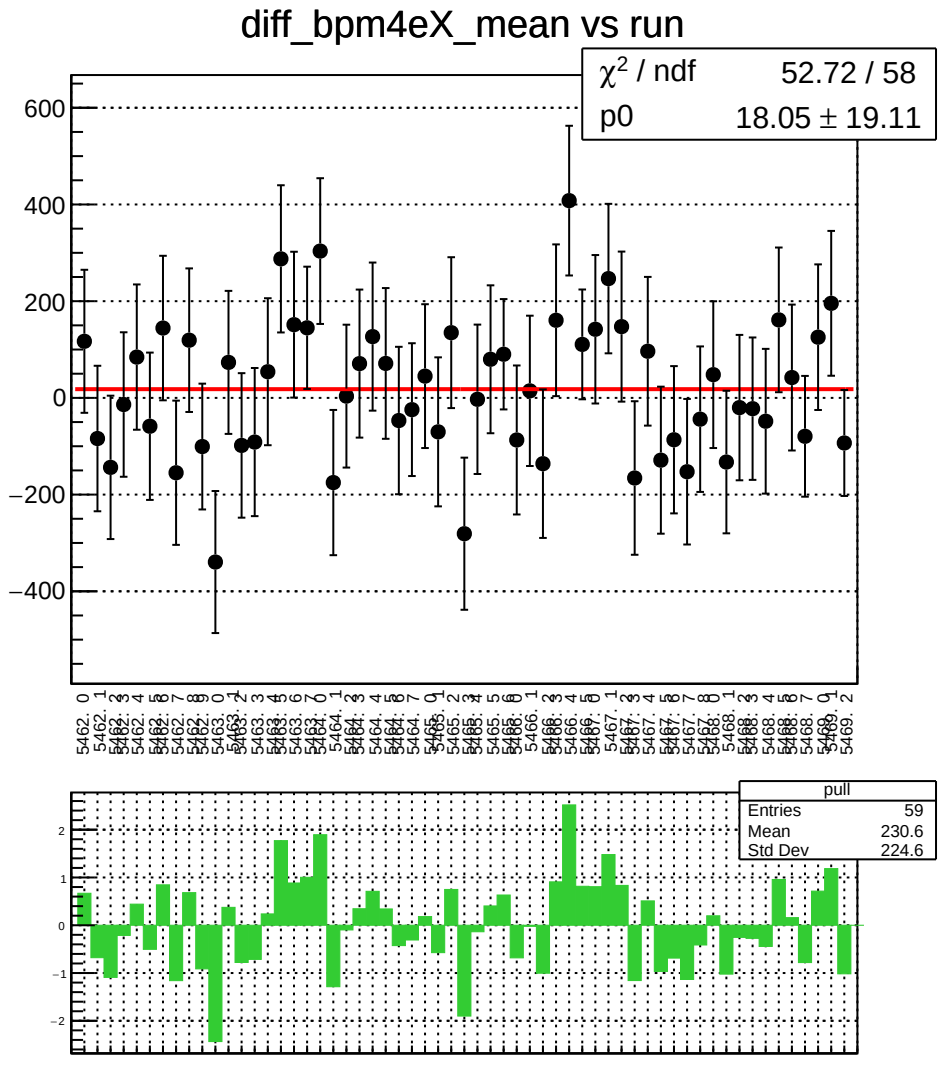

pull1D
Entries 59
Mean 0.003378
Std Dev 0.9388

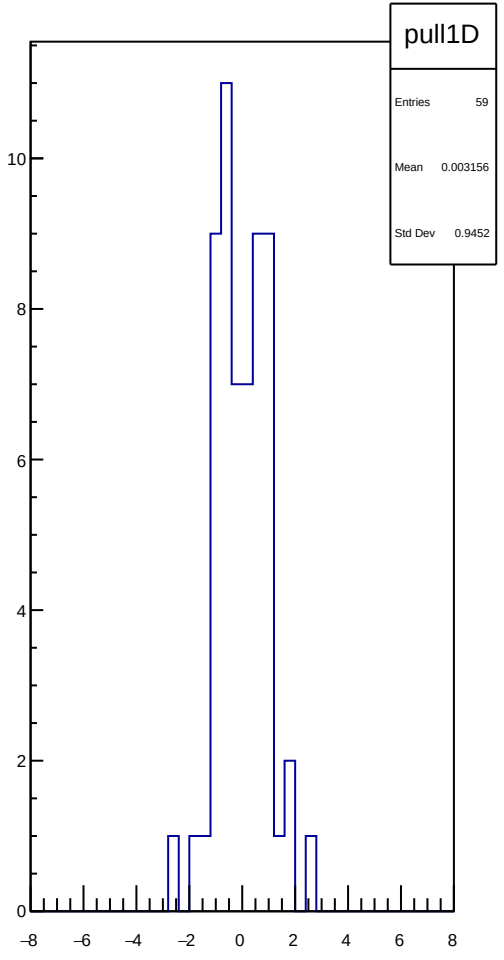

diff_bpm4aX_rms vs run
χ² / ndf 387 / 58
p0 1.387e+04 ± 13.03
14600
14400
14200
14000
13800
13600
13400
13200
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5465. 7
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5467. 9
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

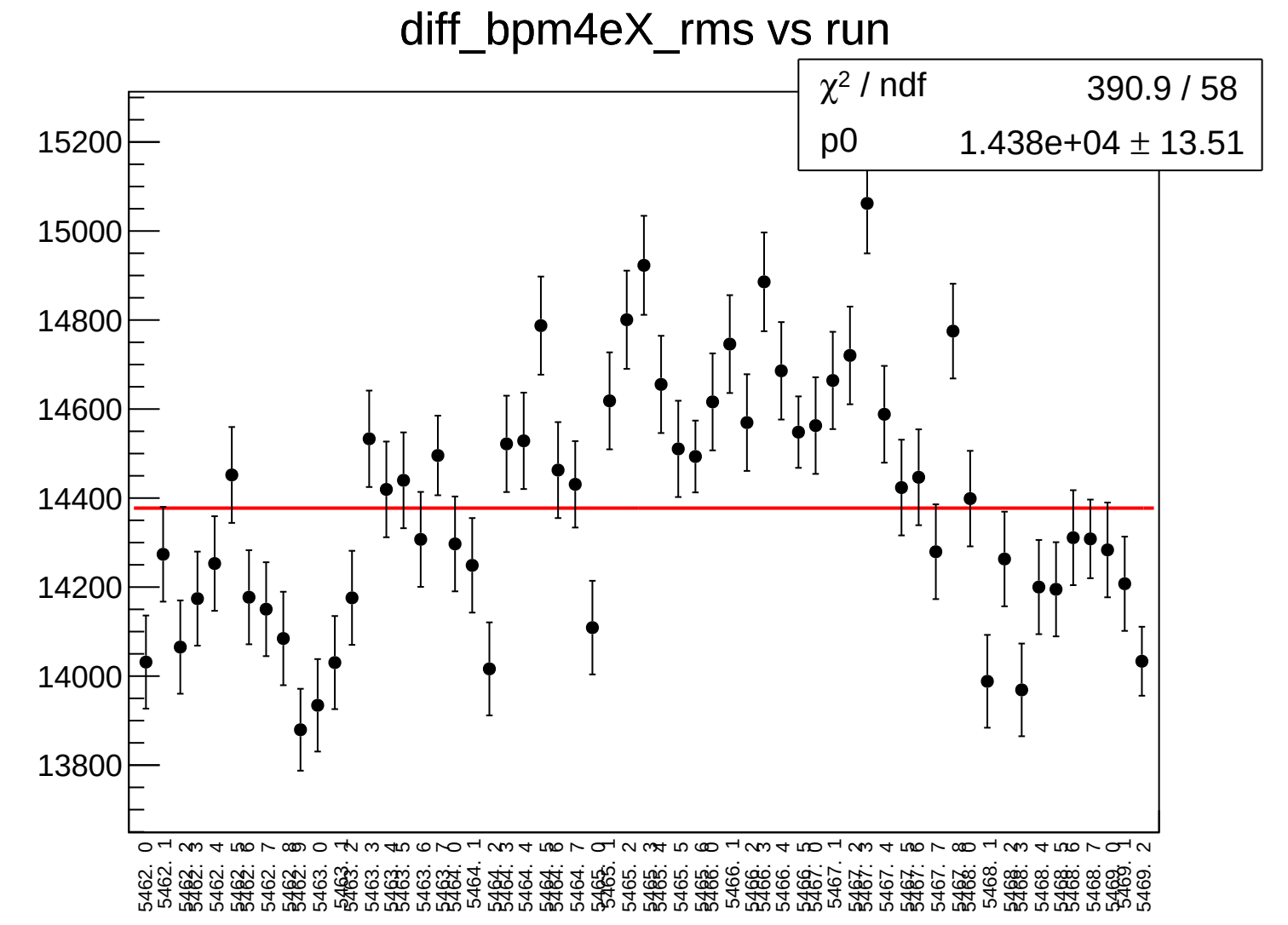

diff_bpm4aY_mean vs run
χ² / ndf 67 / 58
p0 −9.944 ± 9.5
pull
Entries 59
Mean 108.4
Std Dev 69.39

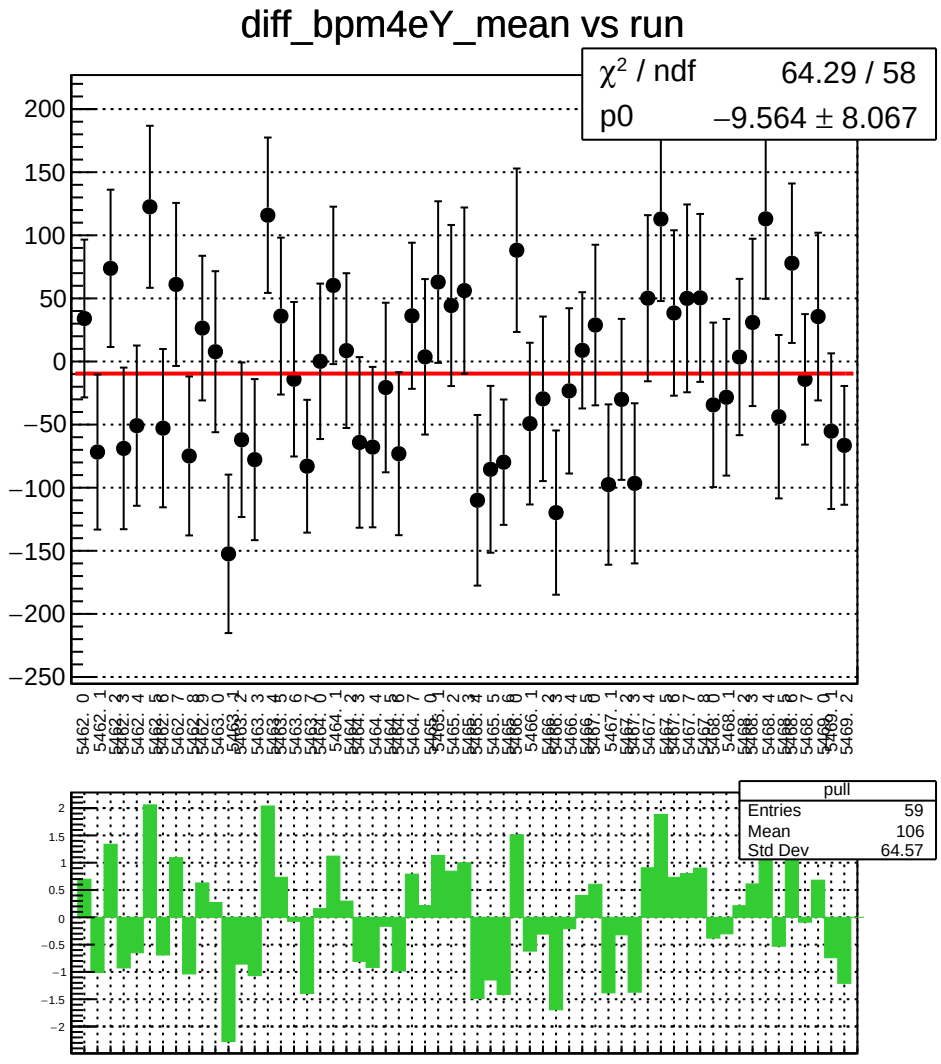

pull1D
Entries 59
Mean 0.01633
Std Dev 1.066

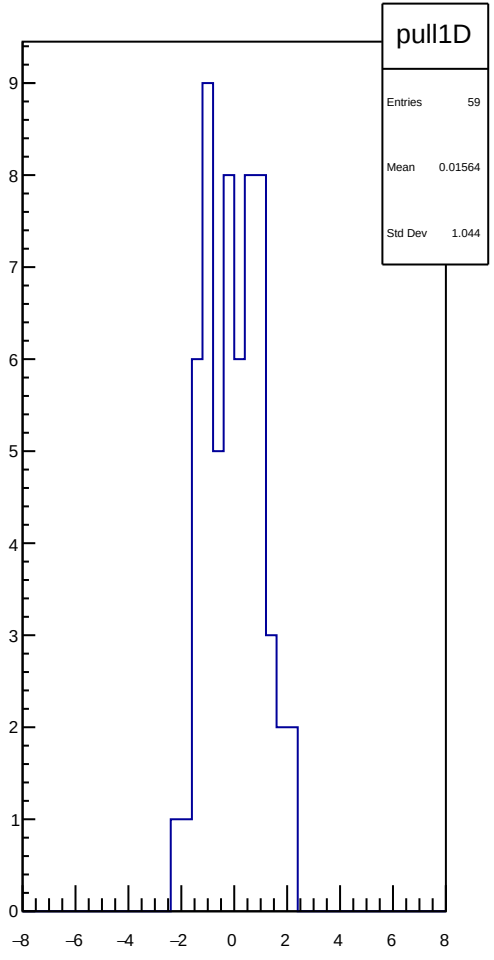

diff_bpm4aY_rms vs run
χ² / ndf 1192 / 58
p0 7145 ± 6.717
8400
8200
8000
7800
7600
7400
7200
7000
6800

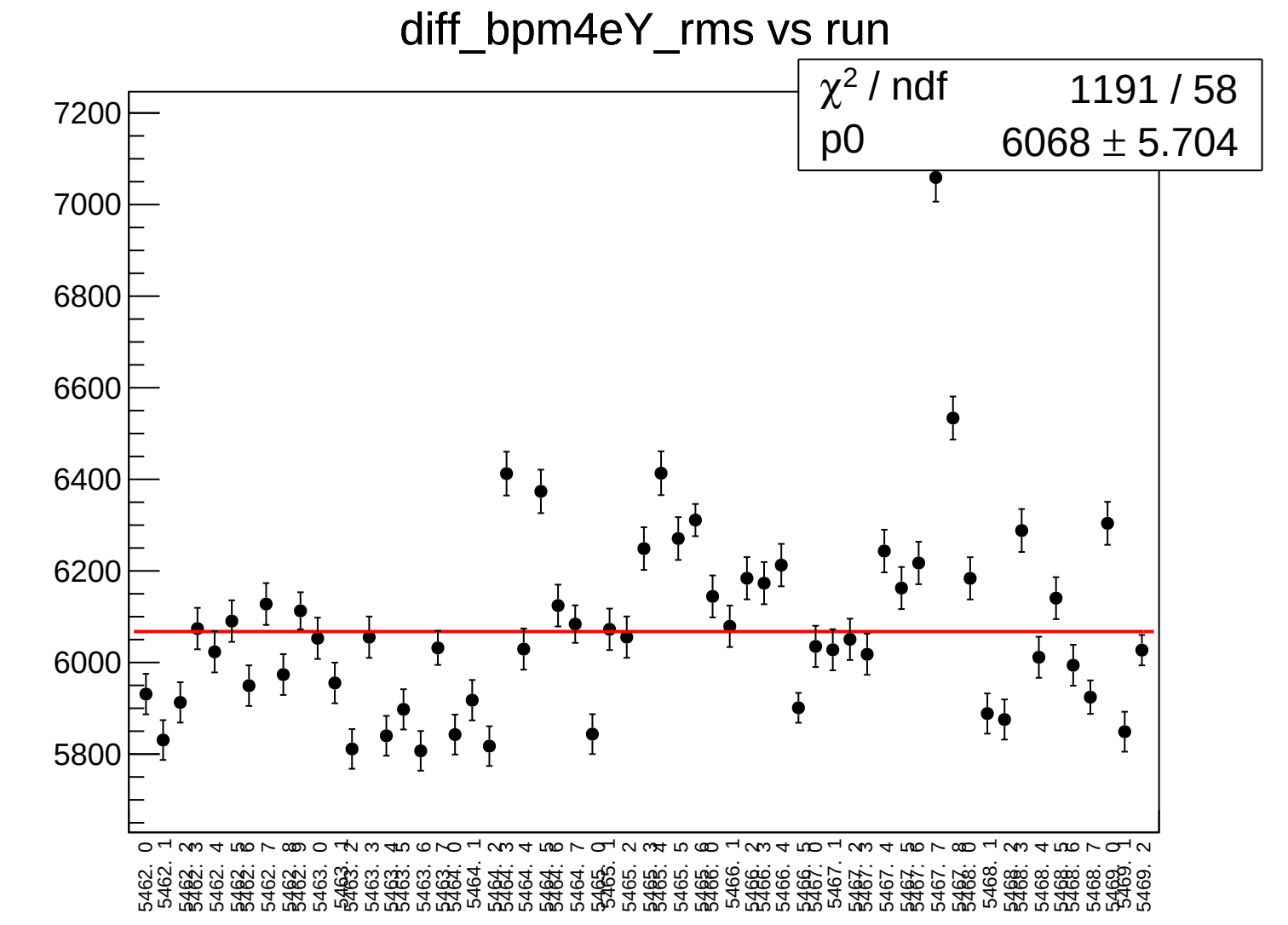

diff_bpm4eX_mean vs run
χ^2 / ndf 52.72 / 58
p0 18.05 ± 19.11
pull
Entries 59
Mean 230.6
Std Dev 224.6

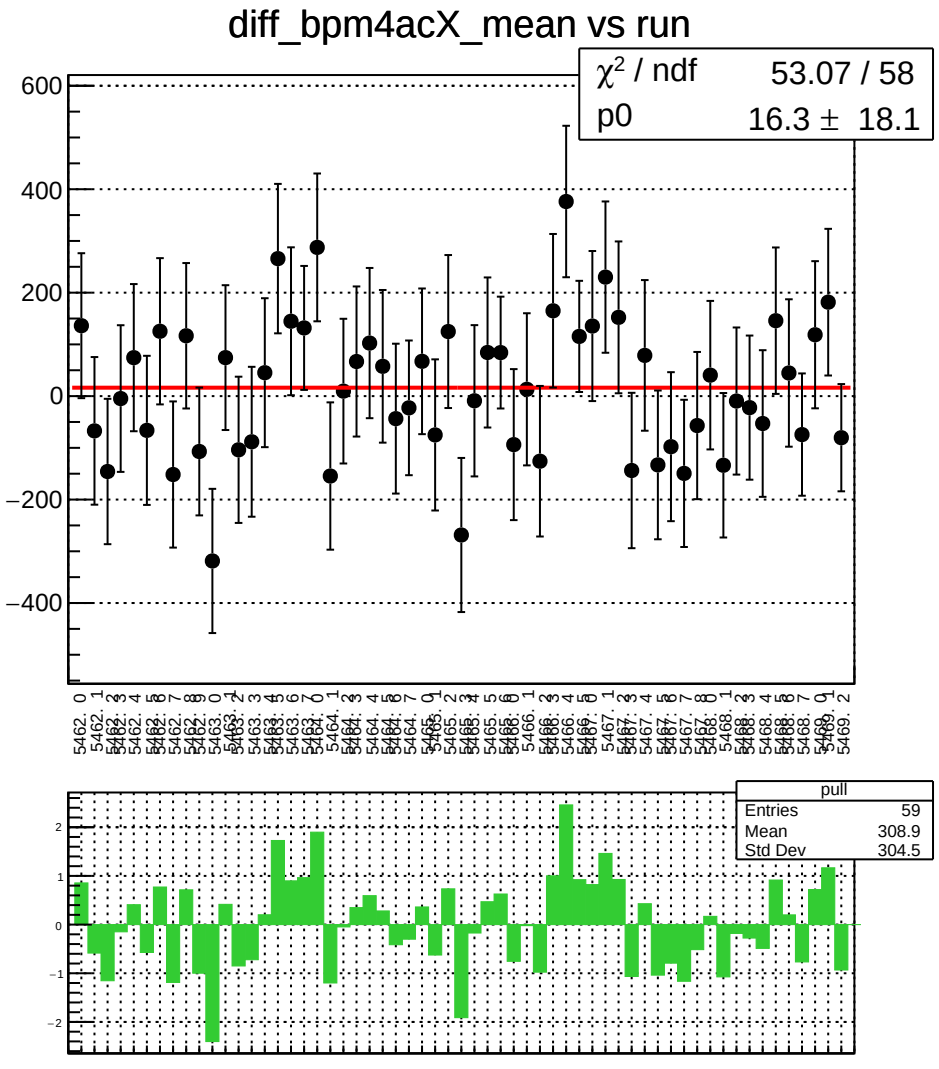

pull1D
Entries 59
Mean 0.003156
Std Dev 0.9452

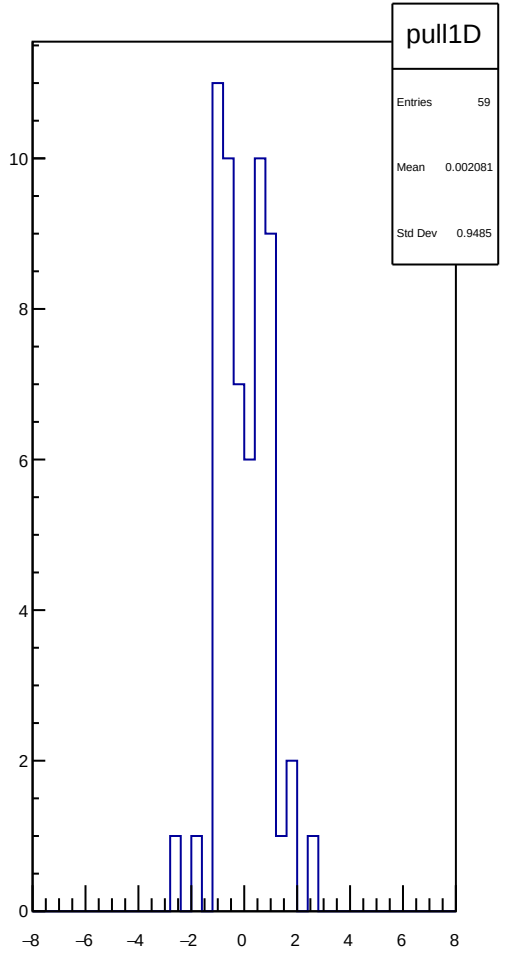

diff_bpm4eX_rms vs run
χ² / ndf 390.9 / 58
p0 1.438e+04 ± 13.51
15200
15000
14800
14600
14400
14200
14000
13800

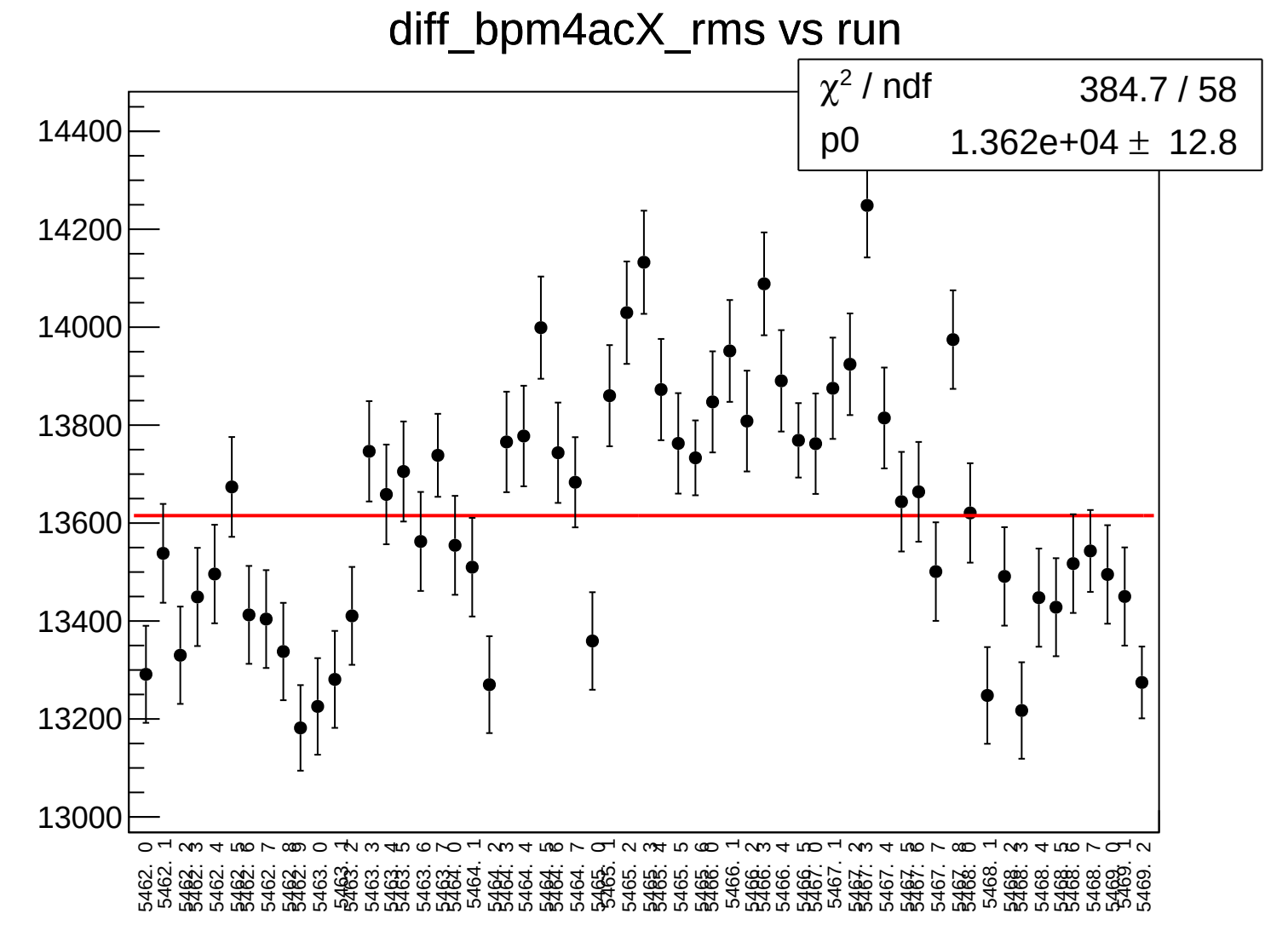

diff_bpm4eY_mean vs run
χ² / ndf 64.29 / 58
p0 −9.564 ± 8.067
pull
Entries 59
Mean 106
Std Dev 64.57

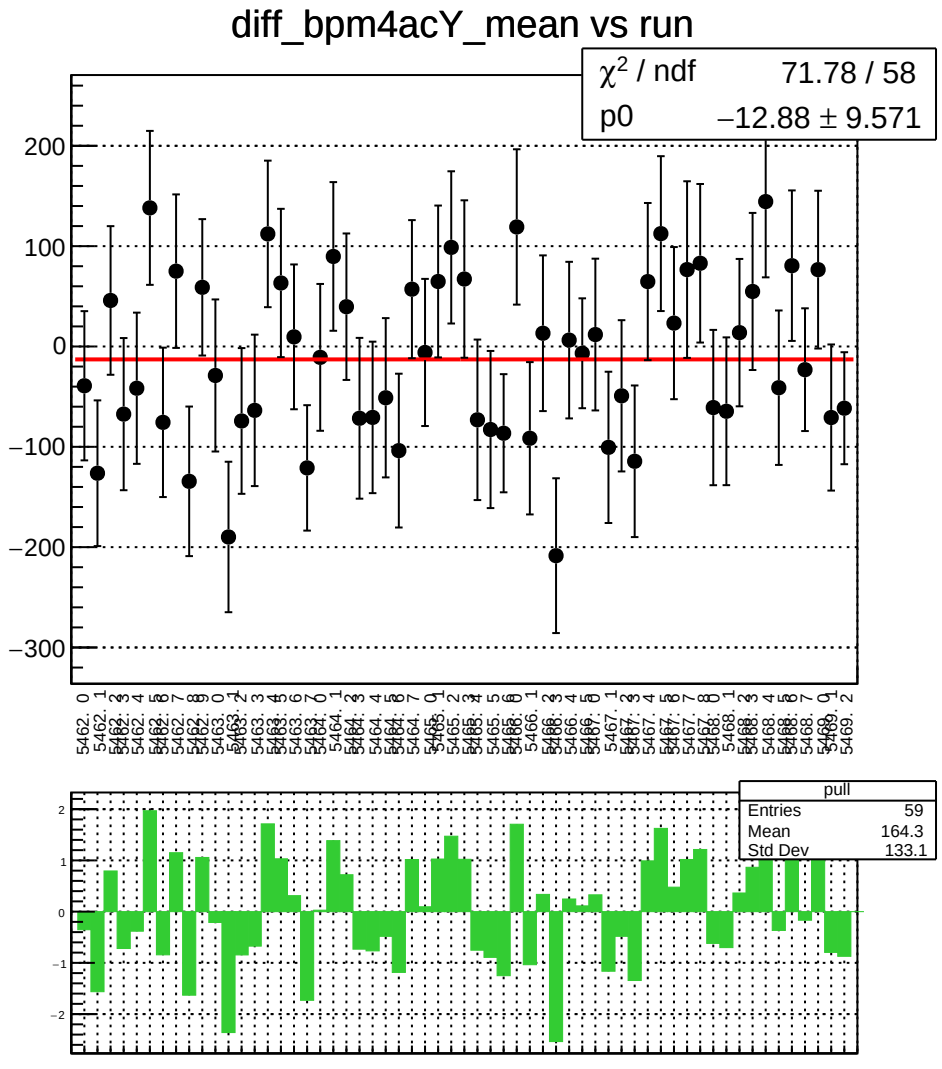

pull1D
Entries 59
Mean 0.01564
Std Dev 1.044

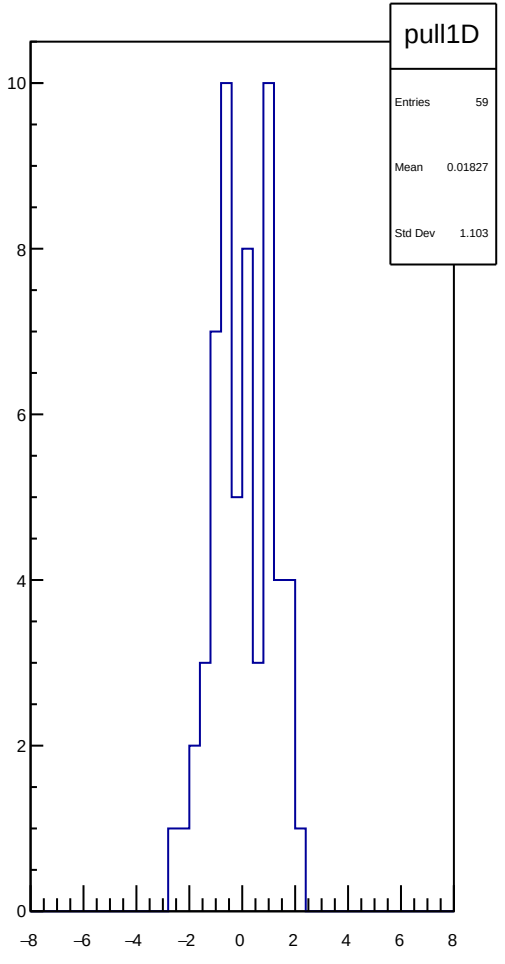

diff_bpm4eY_rms vs run
χ² / ndf 1191 / 58
p0 6068 ± 5.704
7200
7000
6800
6600
6400
6200
6000
5800

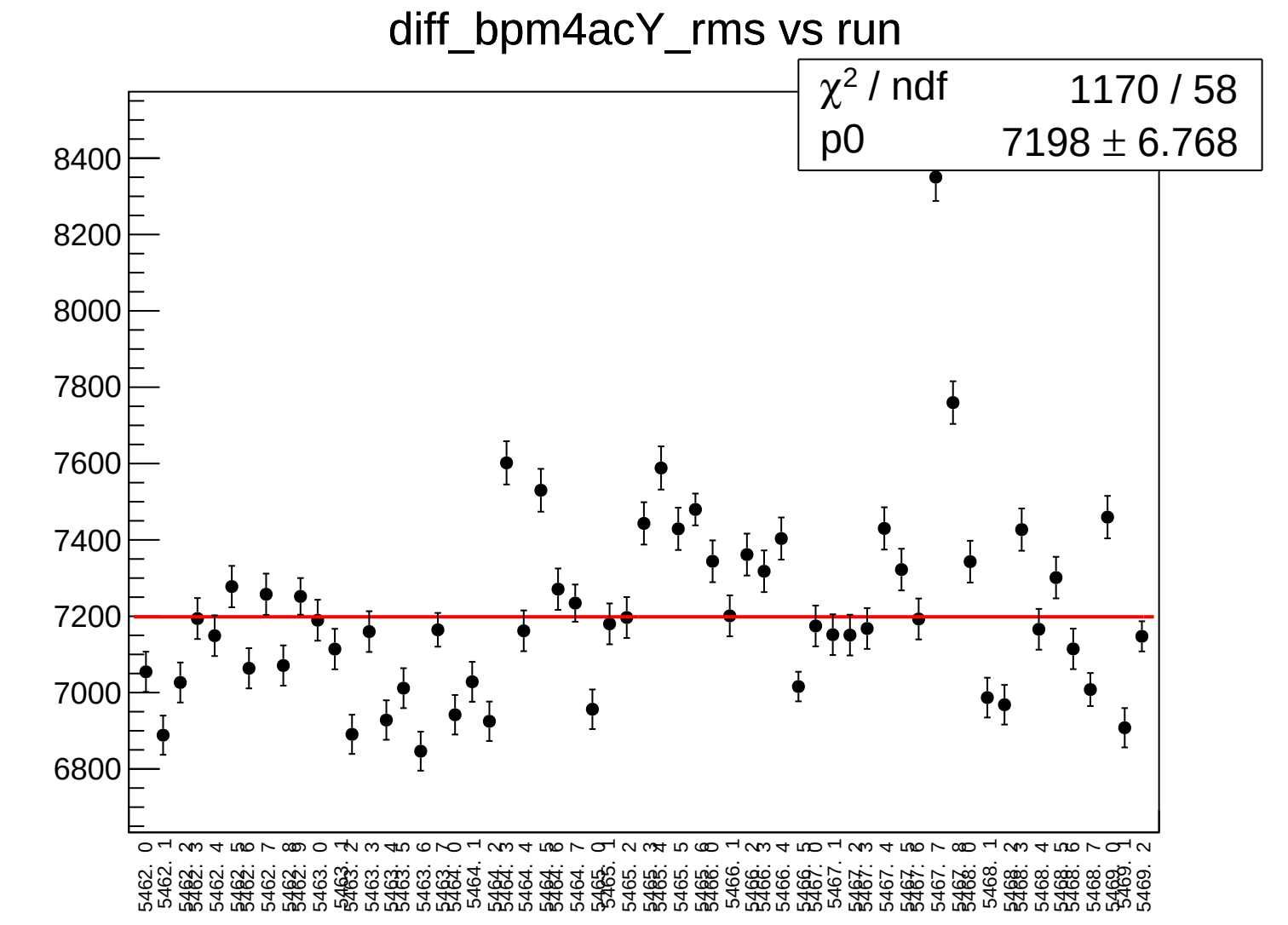

diff_bpm4acX_mean vs run
χ^2 / ndf 53.07 / 58
p0 16.3 ± 18.1
pull
Entries 59
Mean 308.9
Std Dev 304.5

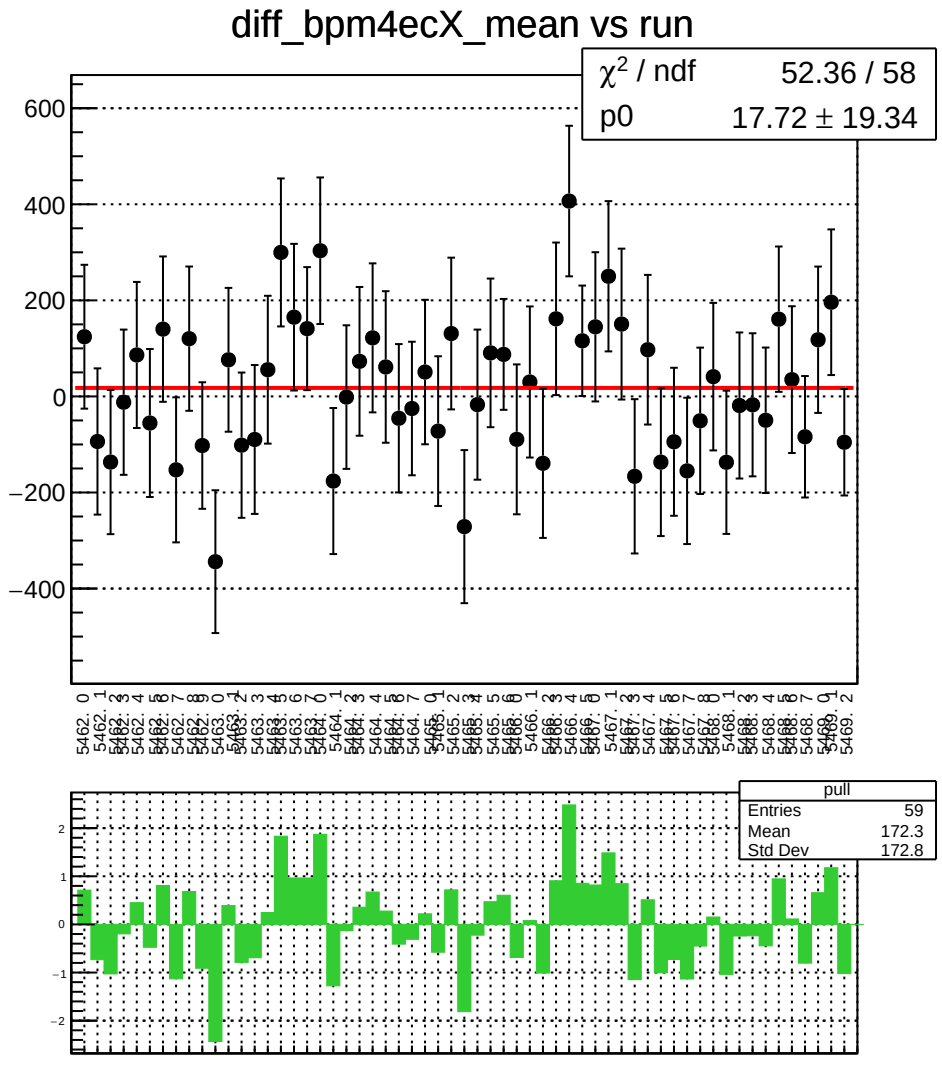

pull1D
Entries 59
Mean 0.002081
Std Dev 0.9485

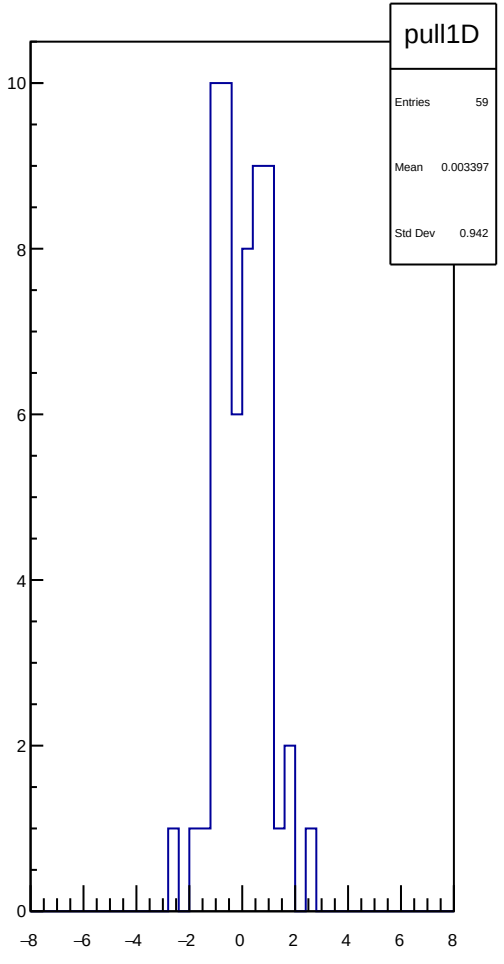

diff_bpm4acX_rms vs run
χ² / ndf 384.7 / 58
p0 1.362e+04 ± 12.8
14400
14200
14000
13800
13600
13400
13200
13000

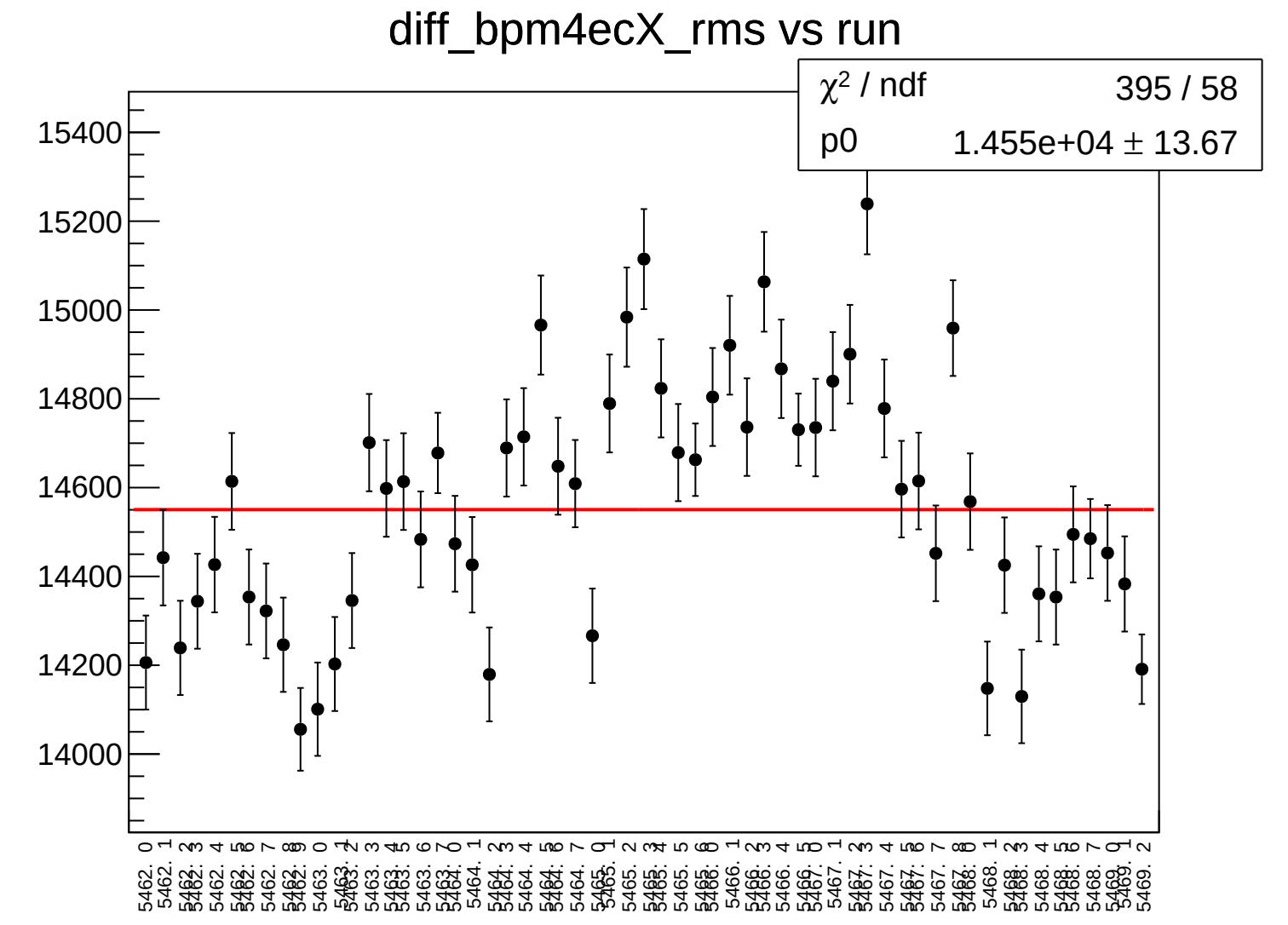

diff_bpm4acY_mean vs run
χ² / ndf 71.78 / 58
p0 −12.88 ± 9.571
200
100
0
−100
−200
−300
pull
Entries 59
Mean 164.3
Std Dev 133.1
2
1
0
−1
−2

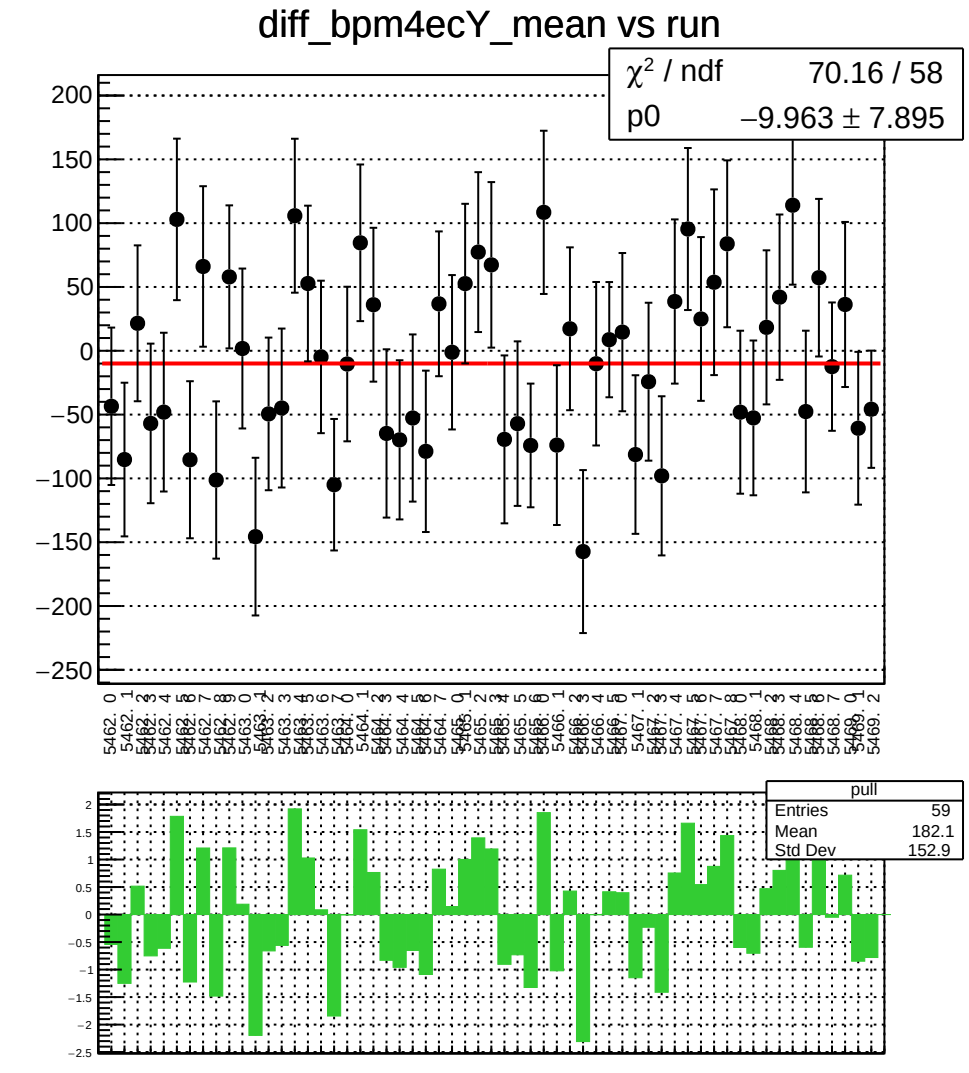

pull1D
Entries 59
Mean 0.01827
Std Dev 1.103
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

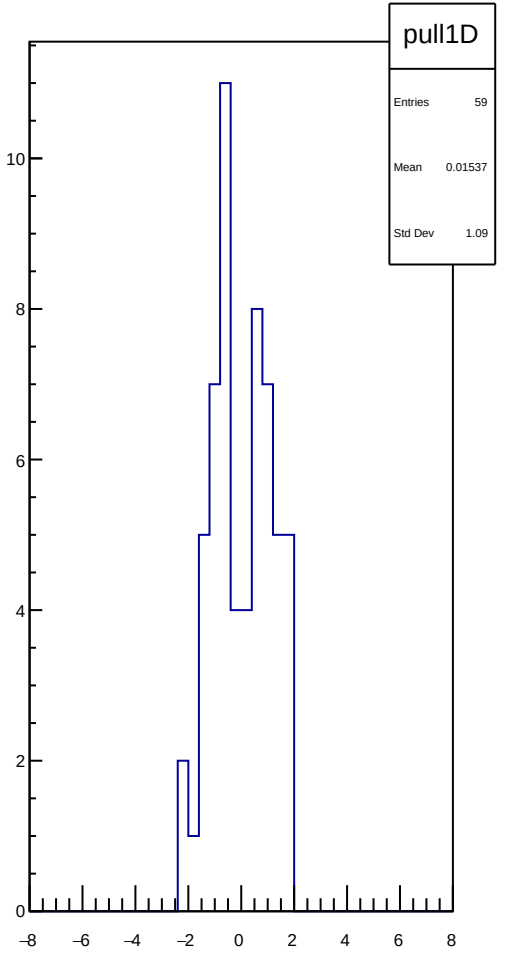

diff_bpm4acY_rms vs run
χ² / ndf 1170 / 58
p0 7198 ± 6.768
8400
8200
8000
7800
7600
7400
7200
7000
6800
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

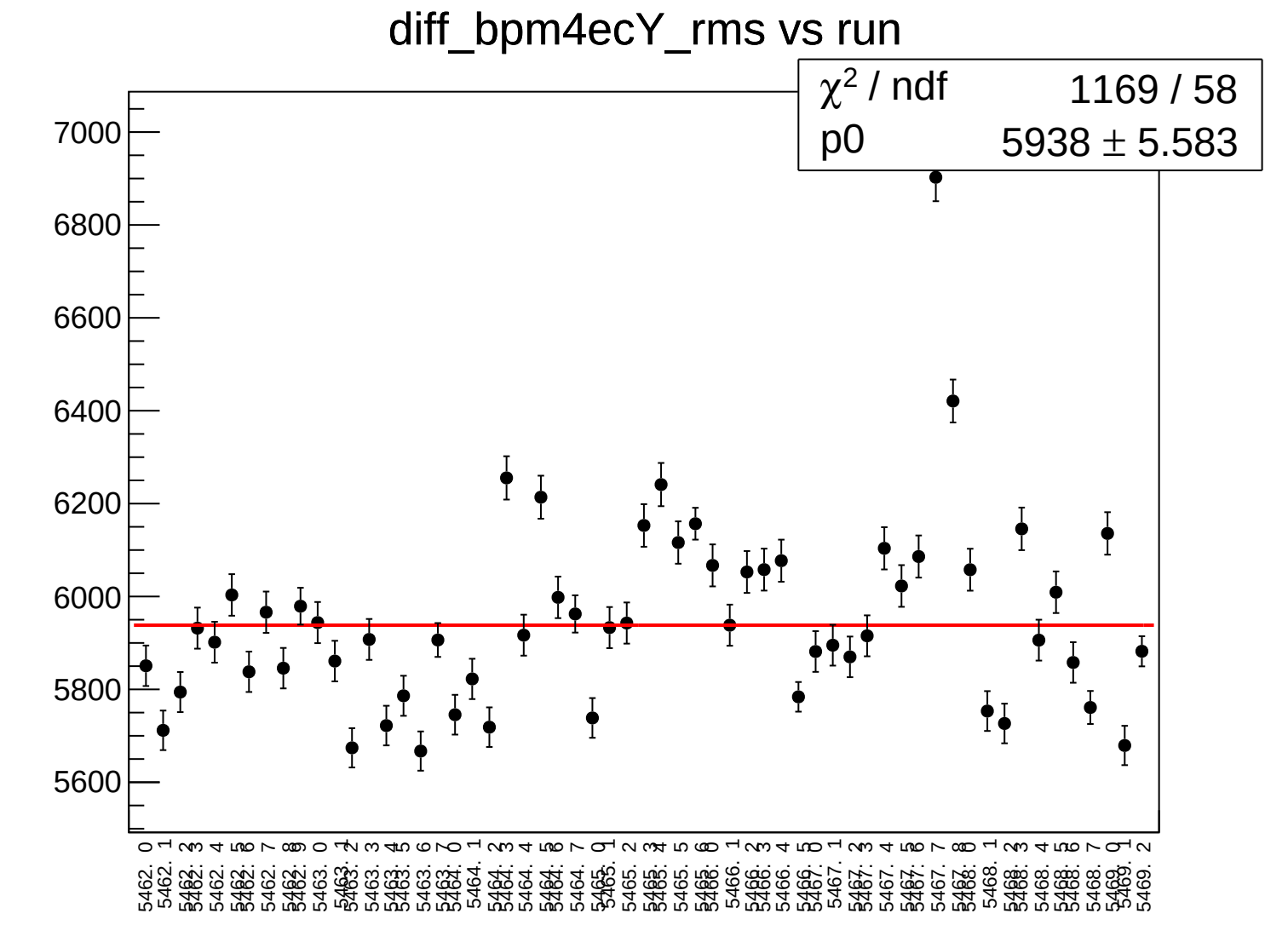

diff_bpm4ecX_mean vs run
χ^2 / ndf 52.36 / 58
p0 17.72 ± 19.34
pull
Entries 59
Mean 172.3
Std Dev 172.8

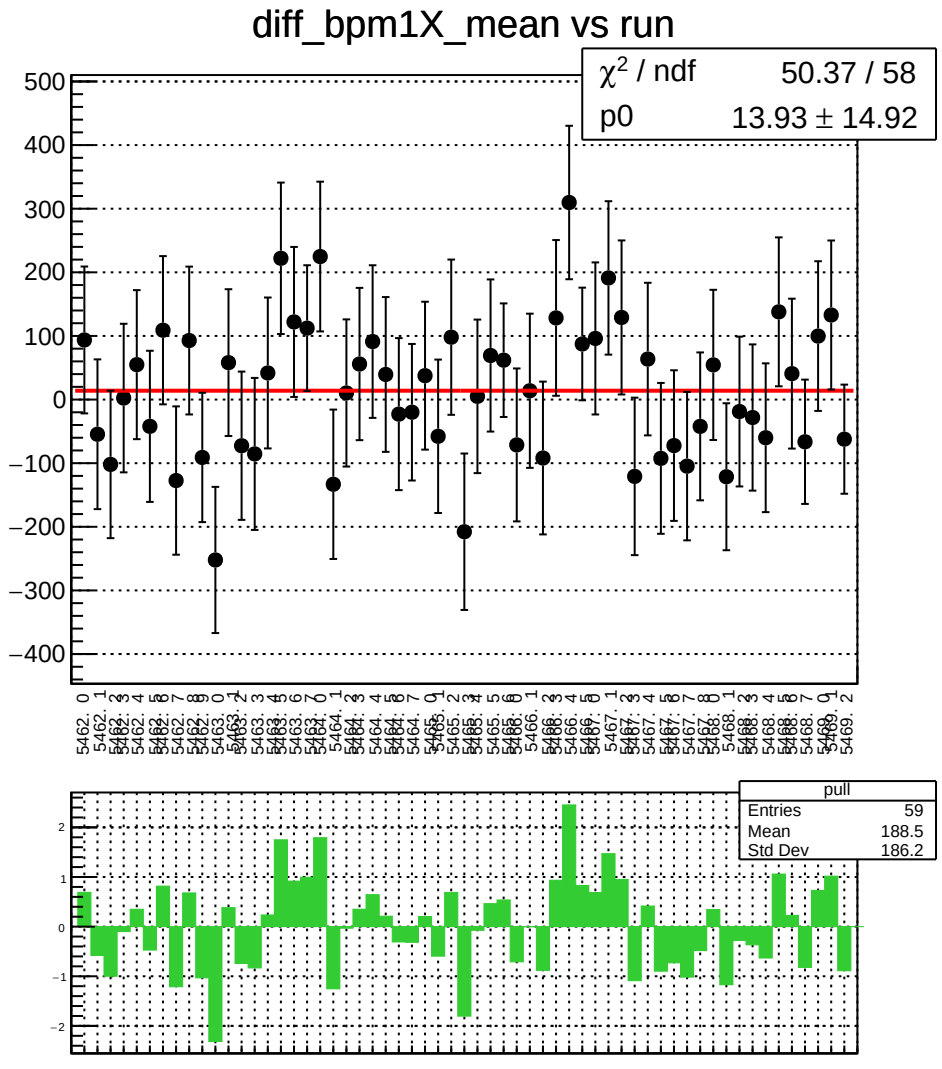

pull1D
Entries 59
Mean 0.003397
Std Dev 0.942

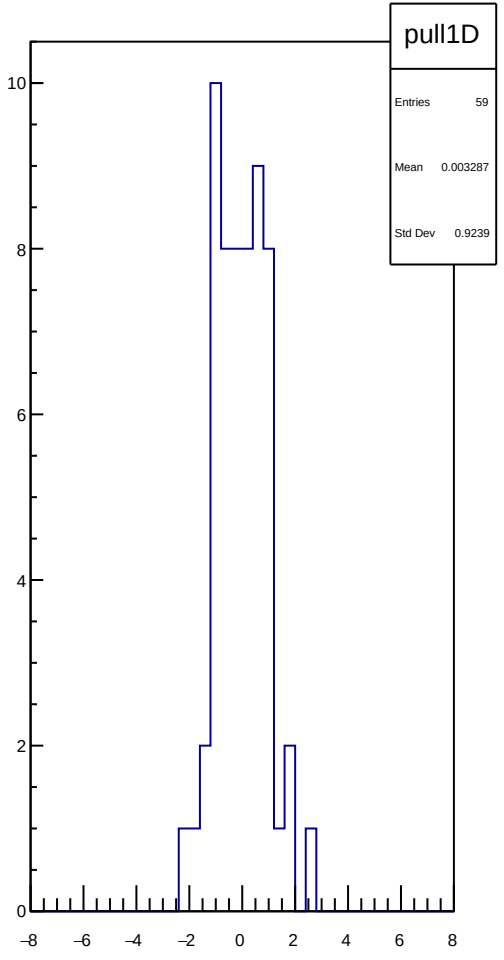

diff_bpm4ecX_rms vs run
χ² / ndf 395 / 58
p0 1.455e+04 ± 13.67
15400
15200
15000
14800
14600
14400
14200
14000
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

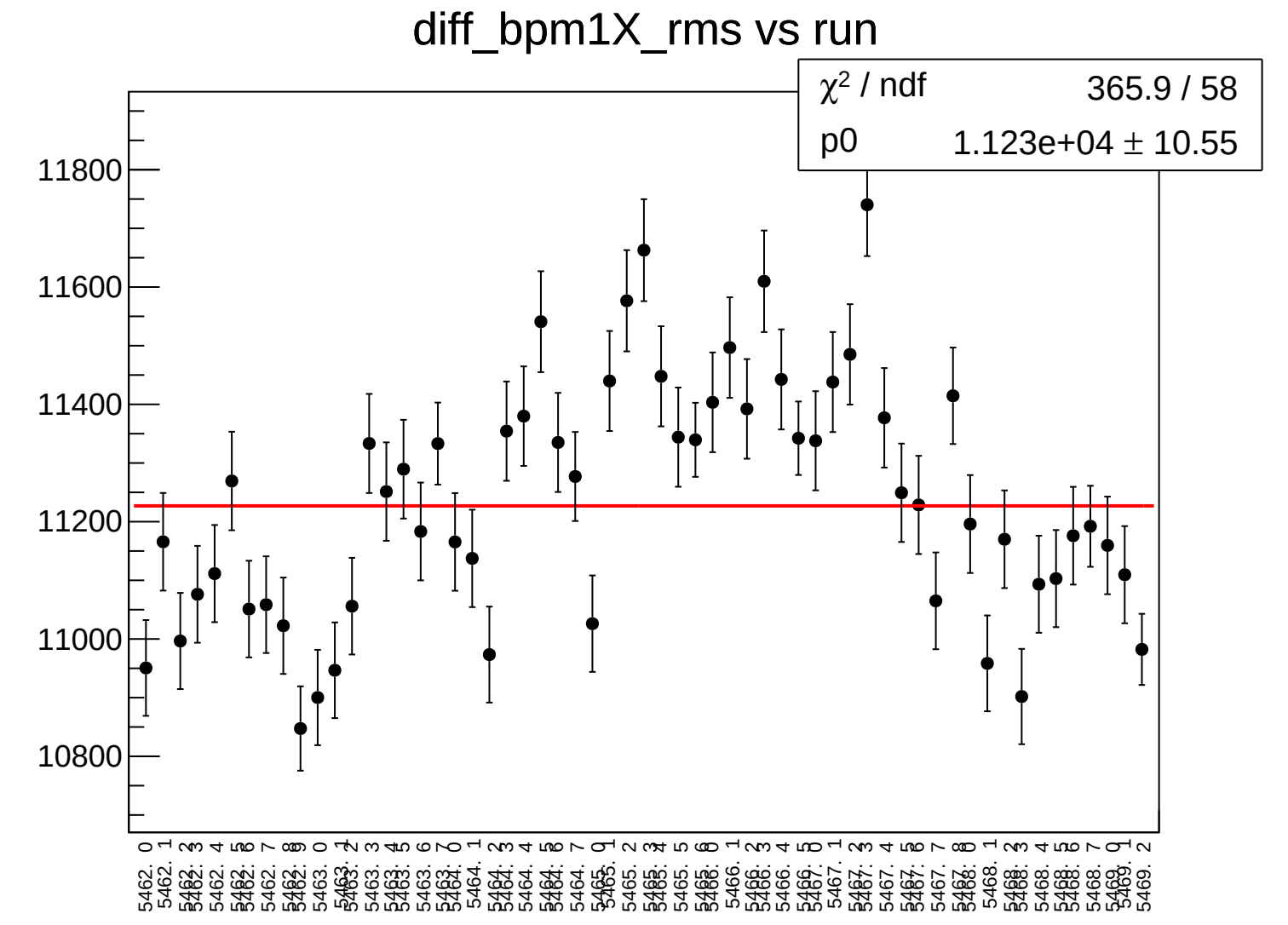

diff_bpm4ecY_mean vs run
χ² / ndf 70.16 / 58
p0 −9.963 ± 7.895
pull
Entries 59
Mean 182.1
Std Dev 152.9

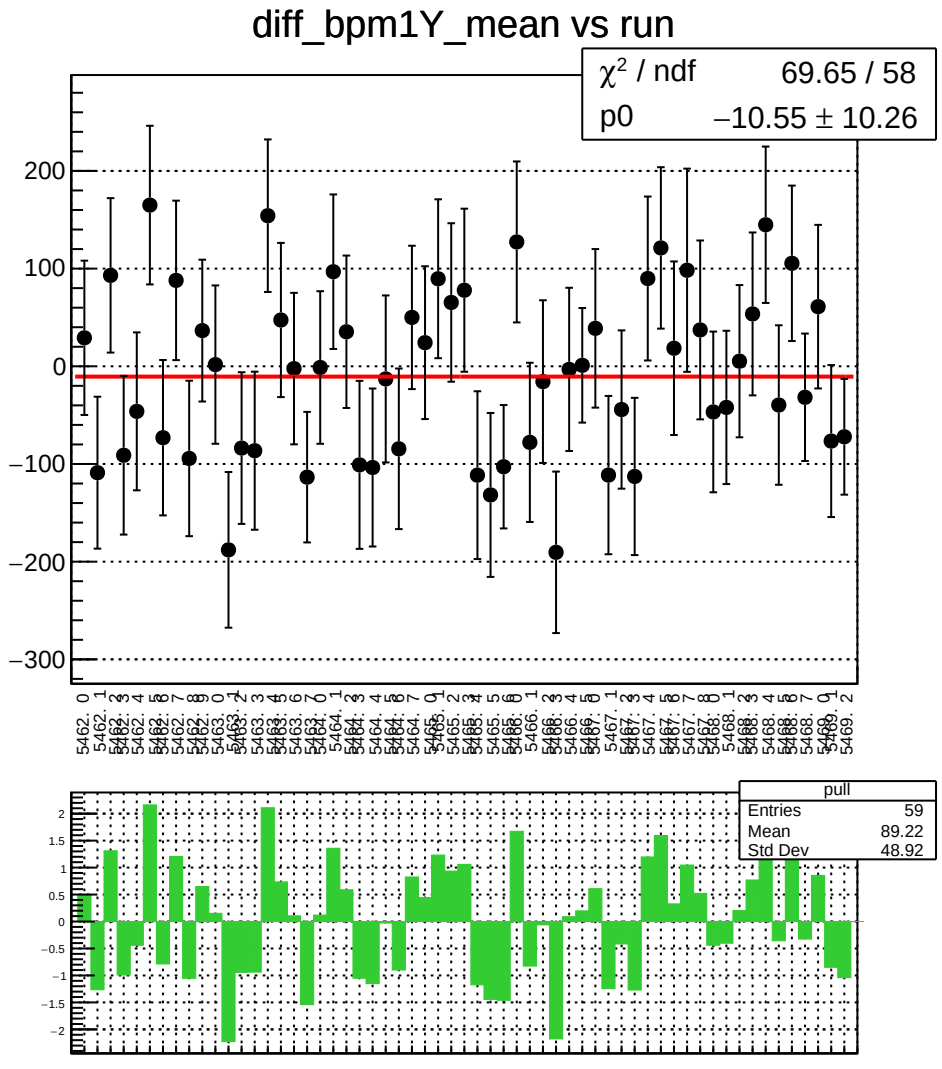

pull1D
Entries 59
Mean 0.01537
Std Dev 1.09

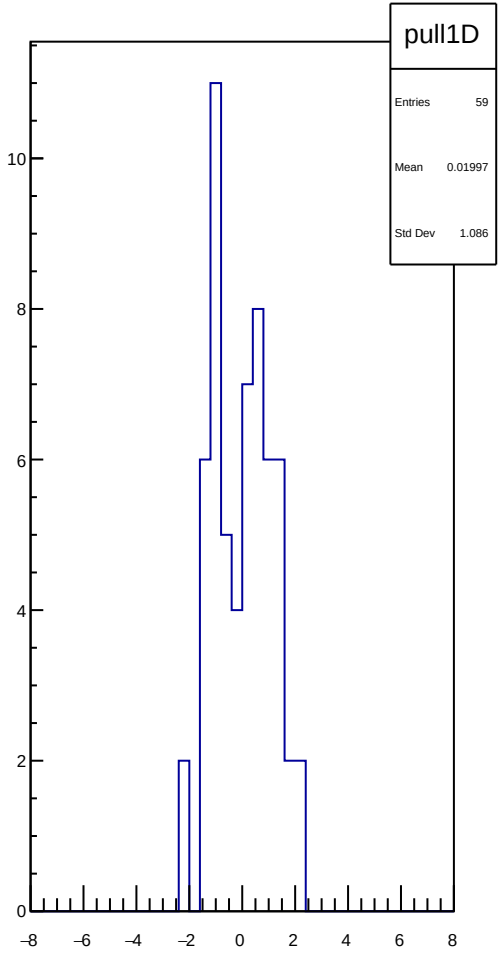

diff_bpm4ecY_rms vs run
χ^2 / ndf 1169 / 58
p0 5938 ± 5.583
7000
6800
6600
6400
6200
6000
5800
5600

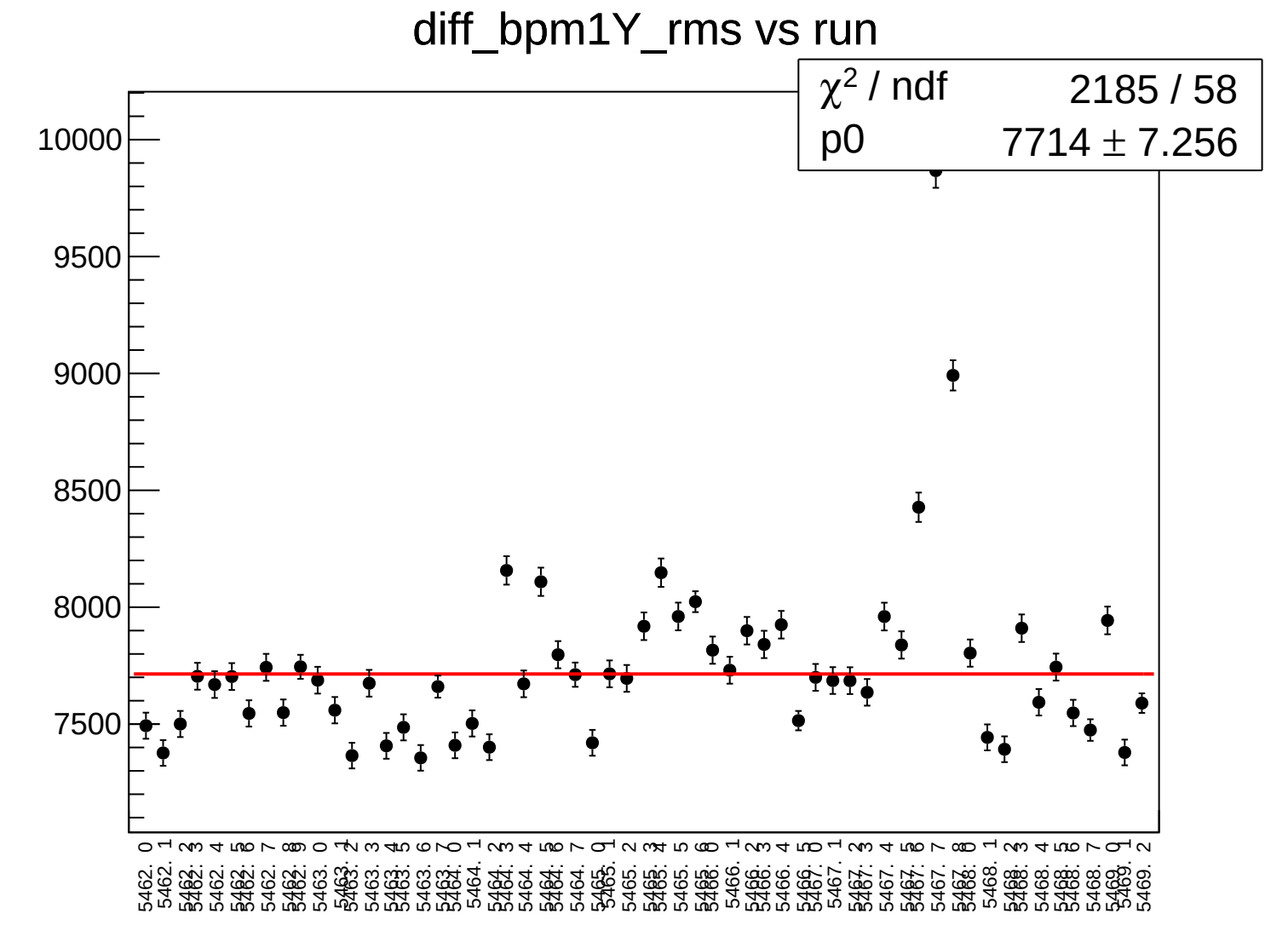

diff_bpm1X_mean vs run
χ² / ndf 50.37 / 58
p0 13.93 ± 14.92
pull
Entries 59
Mean 188.5
Std Dev 186.2

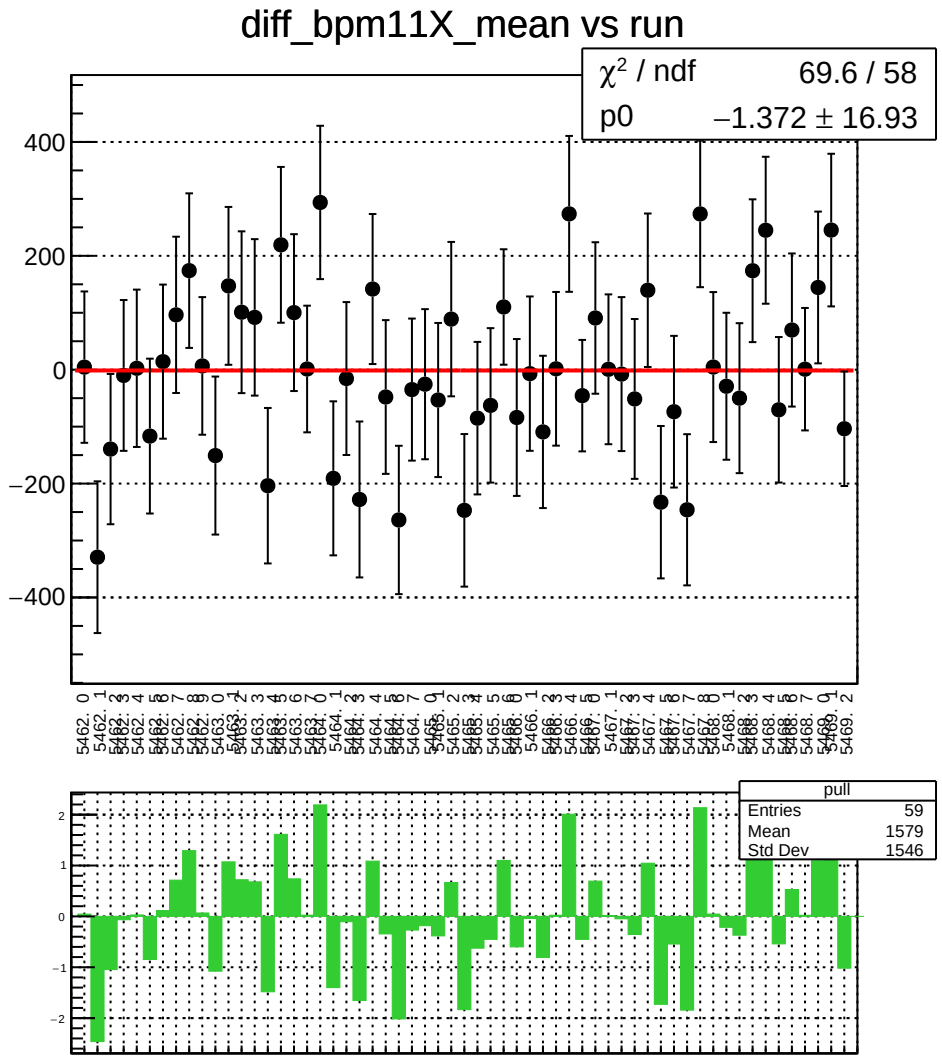

pull1D
Entries 59
Mean 0.003287
Std Dev 0.9239

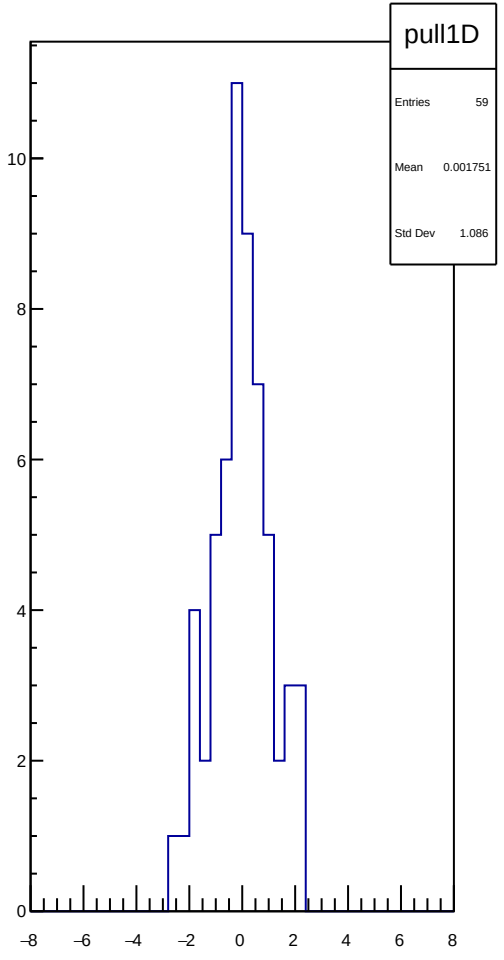

diff_bpm1X_rms vs run
χ² / ndf 365.9 / 58
p0 1.123e+04 ± 10.55
11800
11600
11400
11200
11000
10800

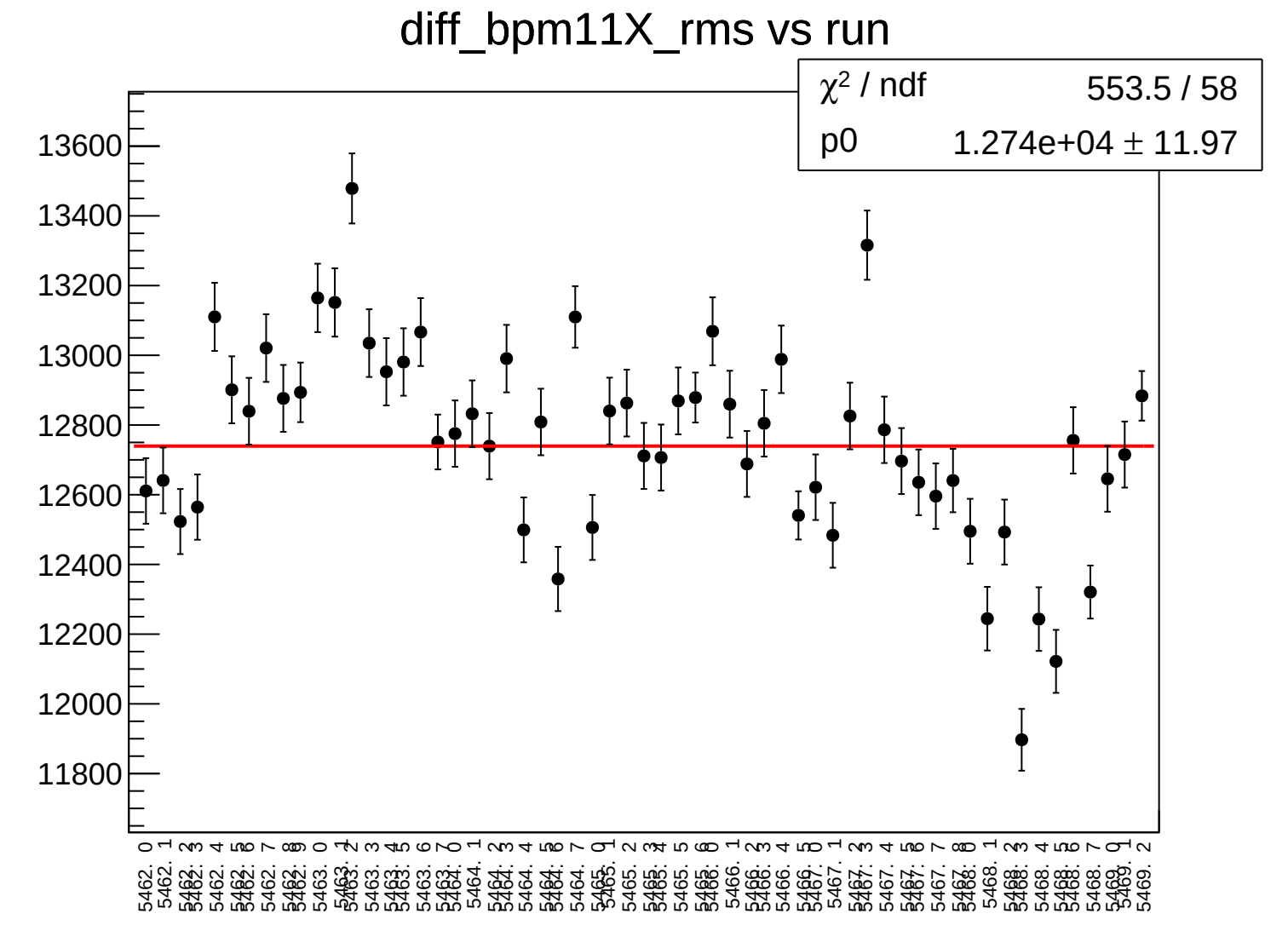

diff_bpm1Y_mean vs run
χ² / ndf 69.65 / 58
p0 −10.55 ± 10.26
pull
Entries 59
Mean 89.22
Std Dev 48.92

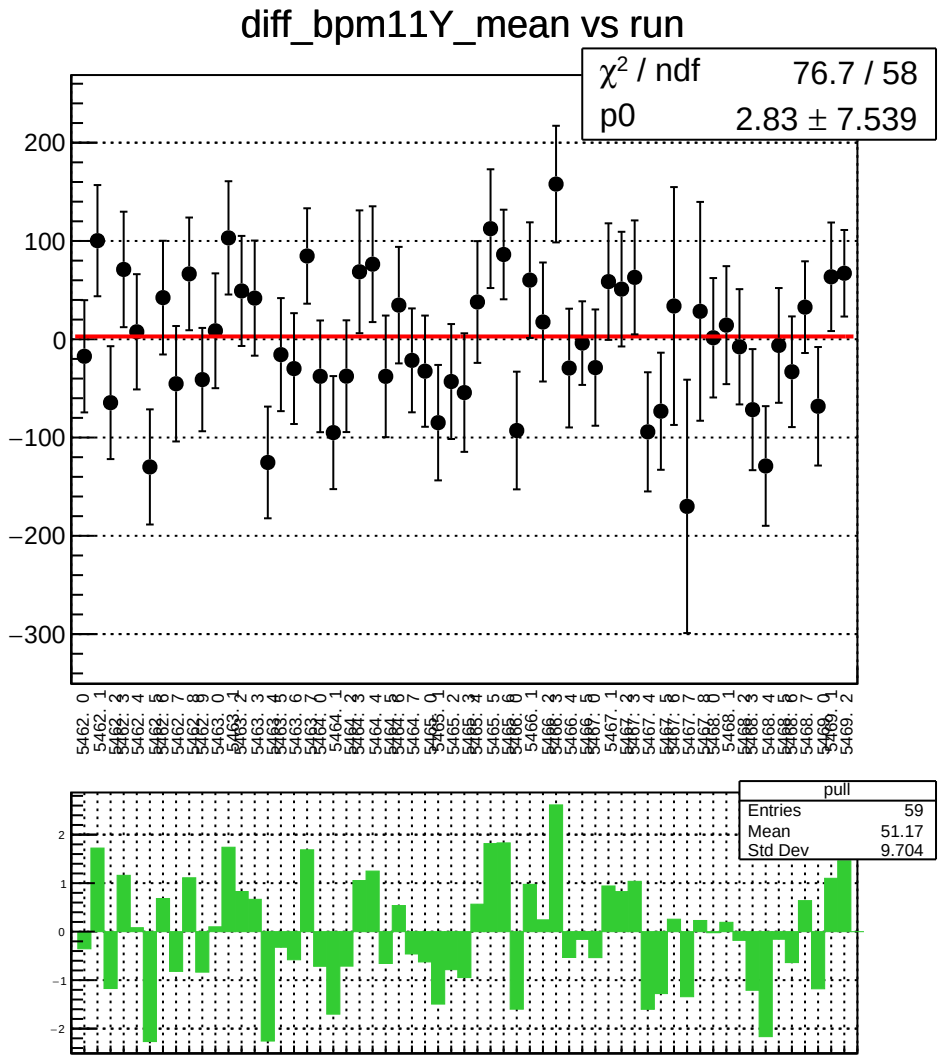

pull1D
Entries 59
Mean 0.01997
Std Dev 1.086

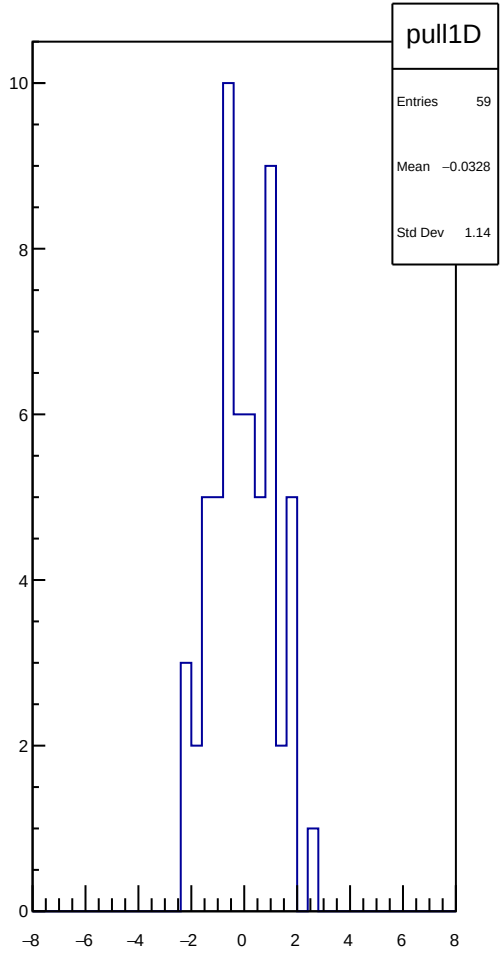

diff_bpm1Y_rms vs run
χ² / ndf 2185 / 58
p0 7714 ± 7.256
10000
9500
9000
8500
8000
7500

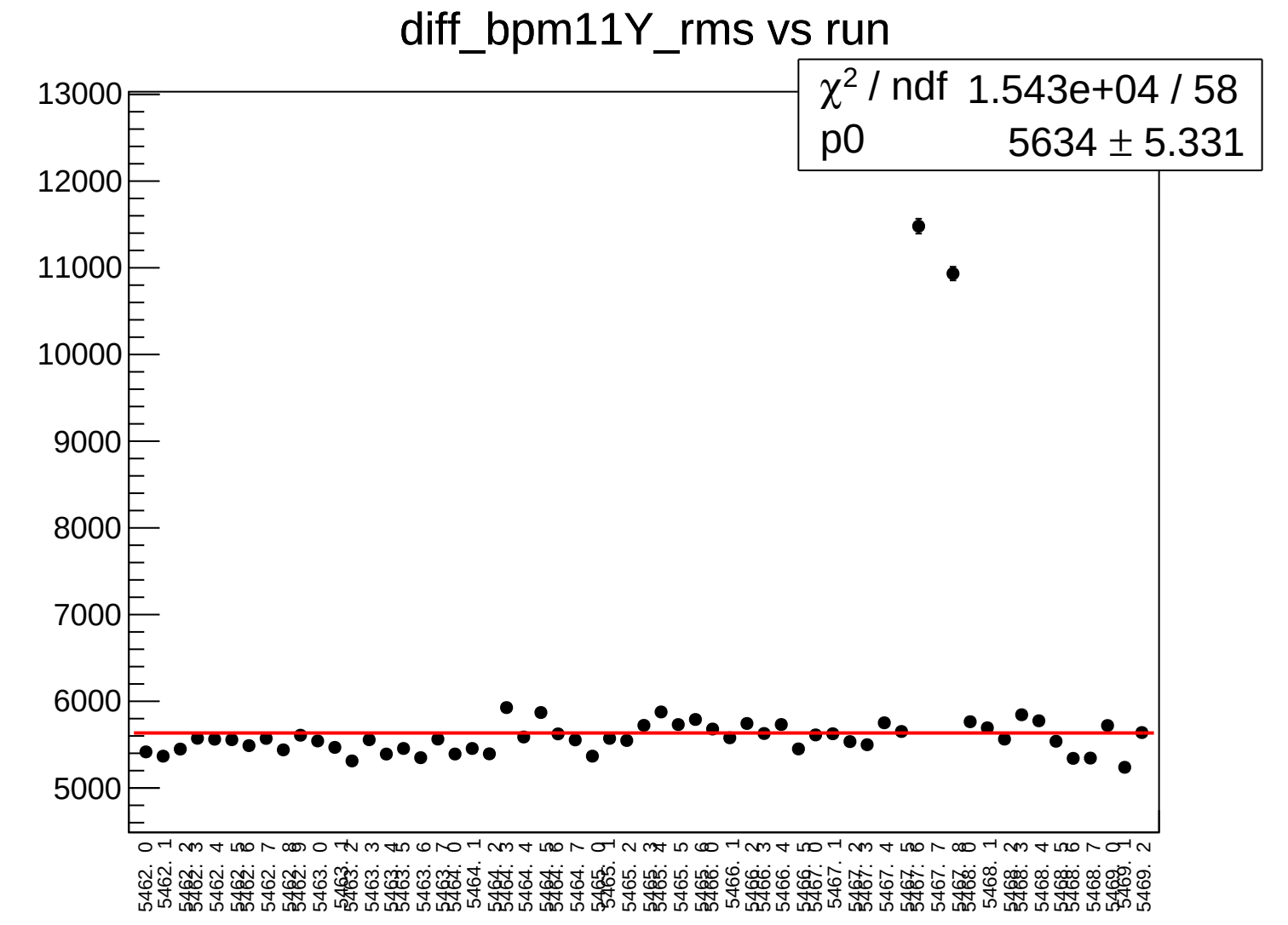

diff_bpm11X_mean vs run
χ² / ndf 69.6 / 58
p0 −1.372 ± 16.93
400
200
0
−200
−400
pull
Entries 59
Mean 1579
Std Dev 1546
2
1
0
−1
−2

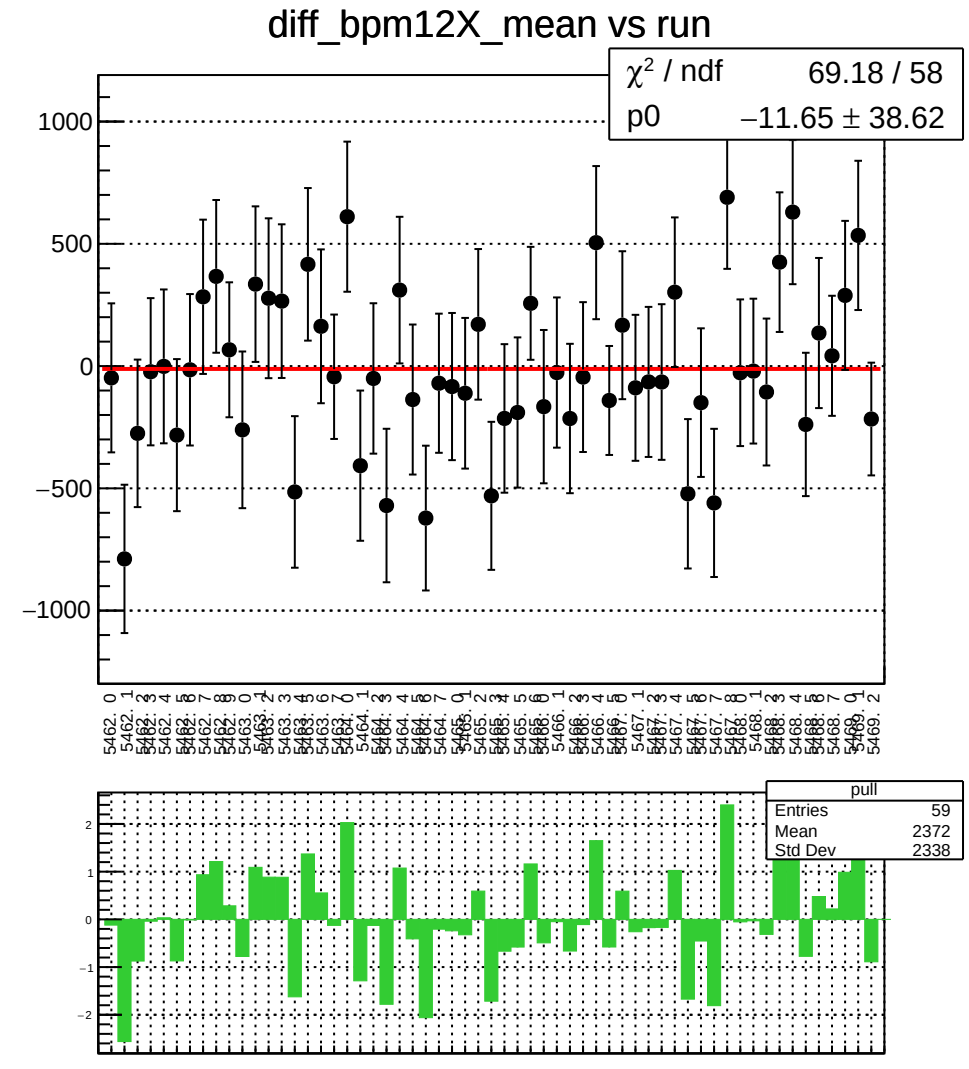

pull1D
Entries 59
Mean 0.001751
Std Dev 1.086
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

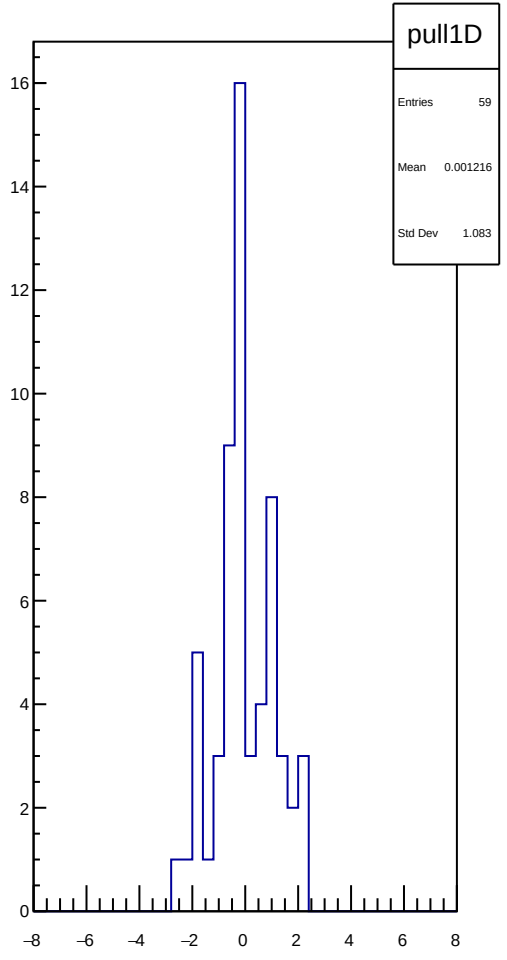

diff_bpm11X_rms vs run
χ² / ndf 553.5 / 58
p0 1.274e+04 ± 11.97
13600
13400
13200
13000
12800
12600
12400
12200
12000
11800

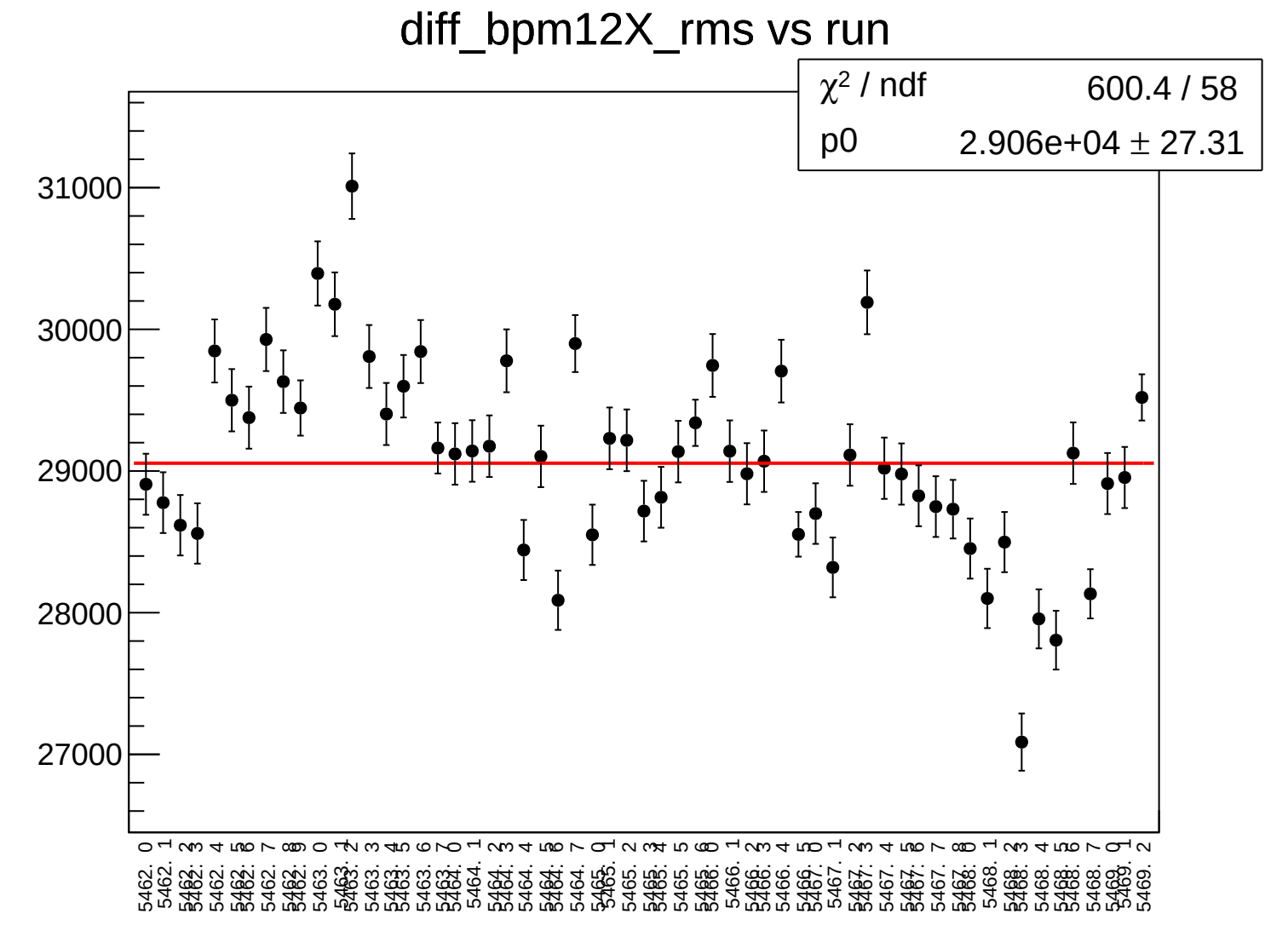

diff_bpm11Y_mean vs run
χ² / ndf 76.7 / 58
p0 2.83 ± 7.539
200
100
0
−100
−200
−300
pull
Entries 59
Mean 51.17
Std Dev 9.704
2
1
0
−1
−2

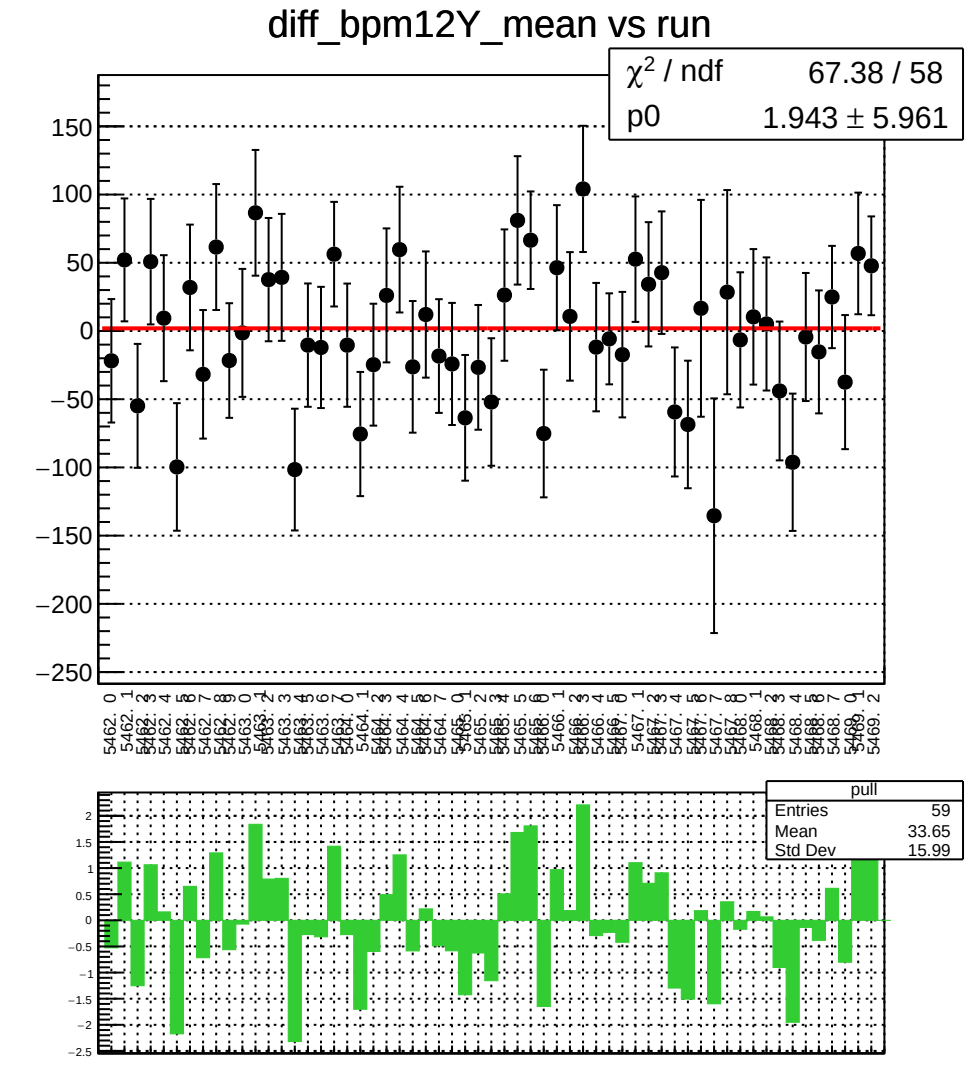

pull1D
Entries 59
Mean −0.0328
Std Dev 1.14
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

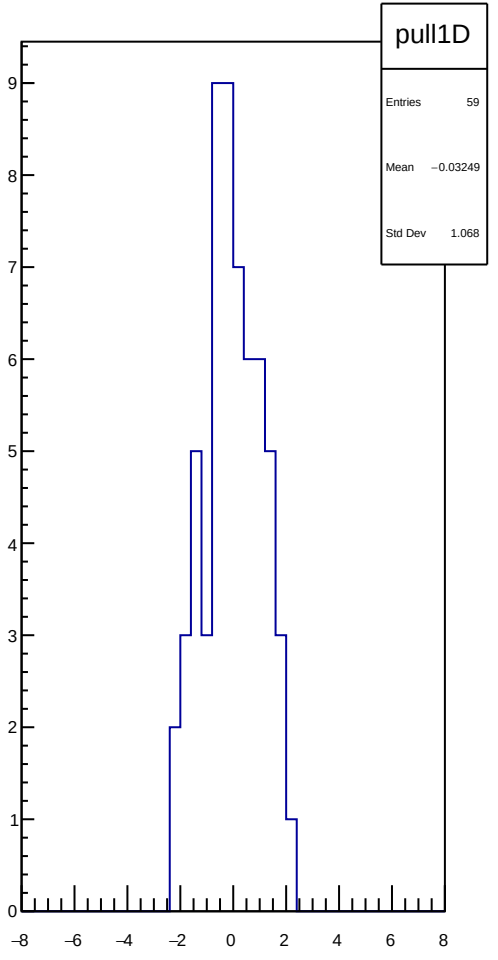

diff_bpm11Y_rms vs run
χ² / ndf 1.543e+04 / 58
p0 5634 ± 5.331
13000
12000
11000
10000
9000
8000
7000
6000
5000

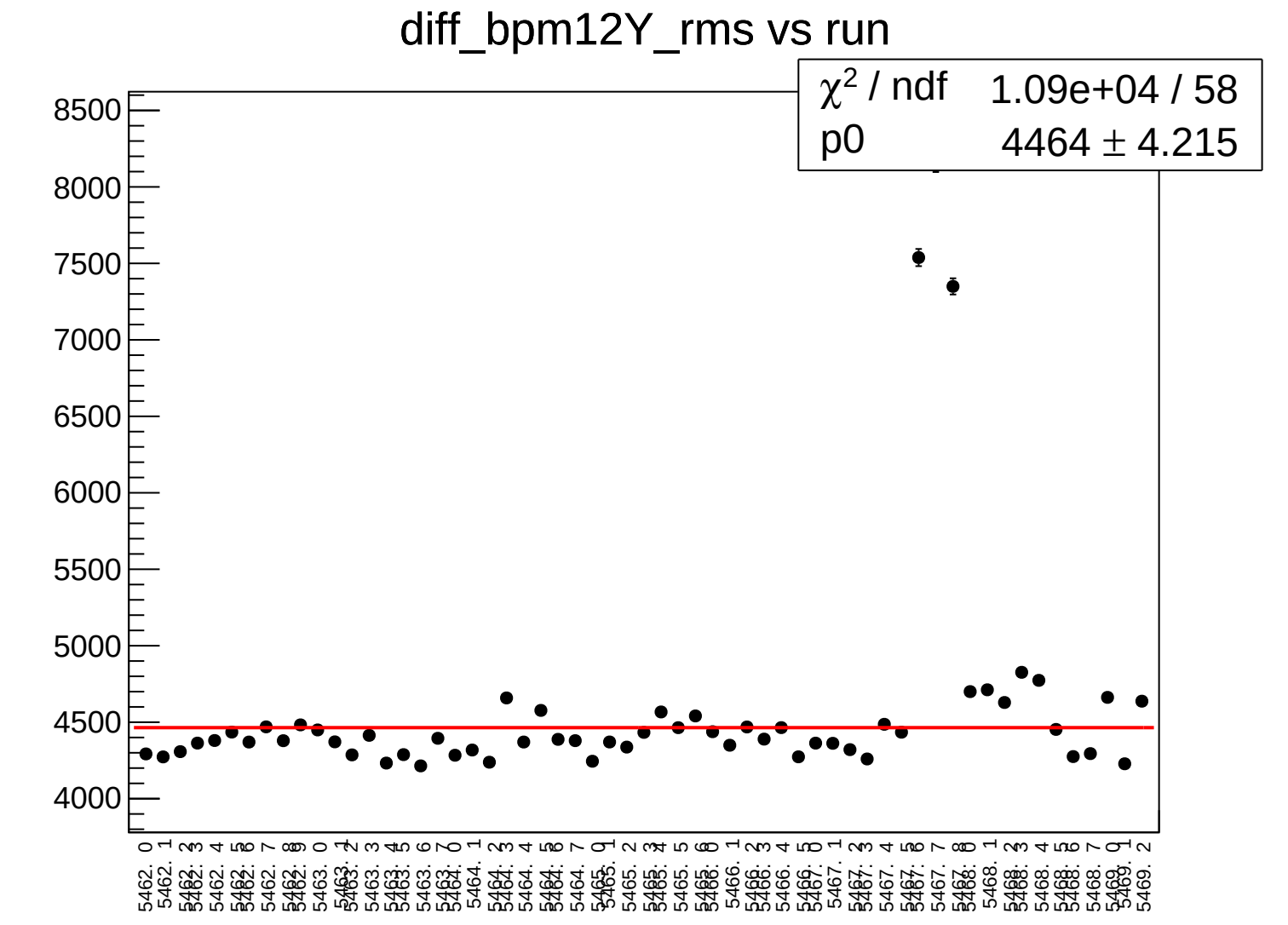

diff_bpm12X_mean vs run
χ^2 / ndf 69.18 / 58
p0 −11.65 ± 38.62
1000
500
0
−500
−1000
pull
Entries 59
Mean 2372
Std Dev 2338
2
1
0
−1
−2

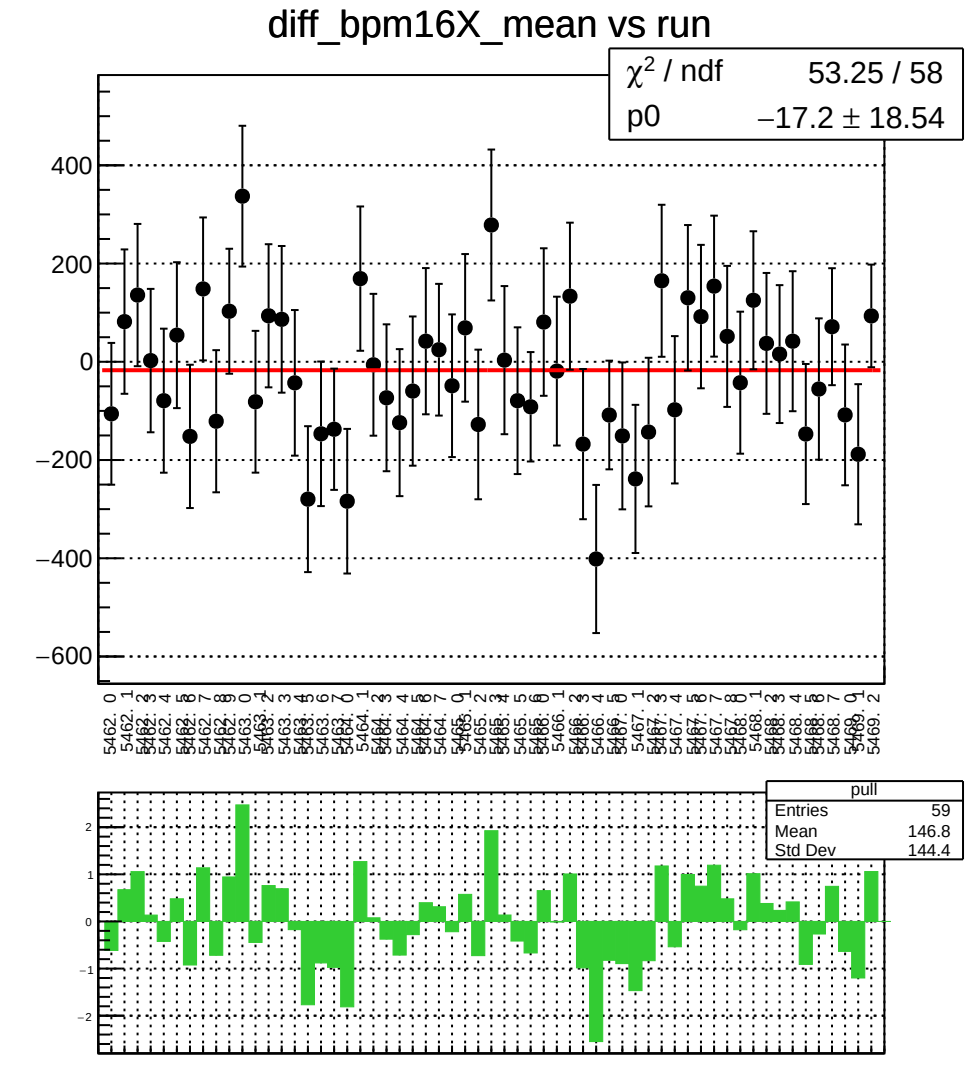

pull1D
Entries 59
Mean 0.001216
Std Dev 1.083
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

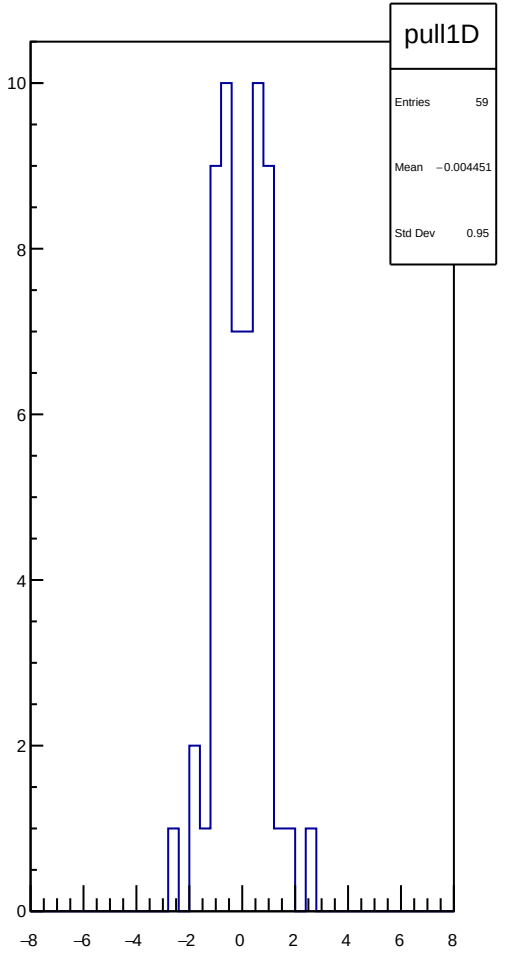

diff_bpm12X_rms vs run
χ² / ndf 600.4 / 58
p0 2.906e+04 ± 27.31
31000
30000
29000
28000
27000

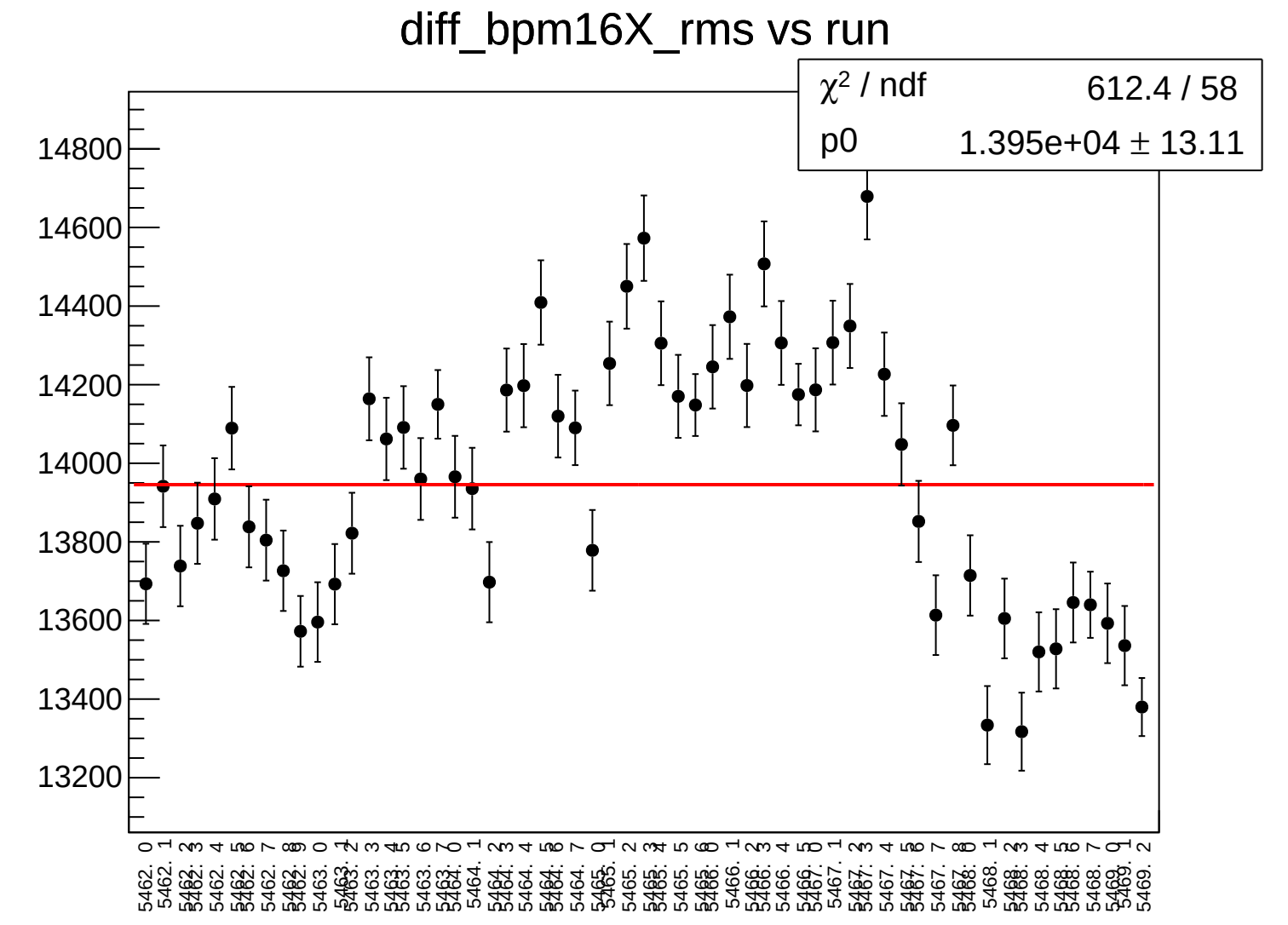

diff_bpm12Y_mean vs run
χ² / ndf 67.38 / 58
p0 1.943 ± 5.961
pull
Entries 59
Mean 33.65
Std Dev 15.99

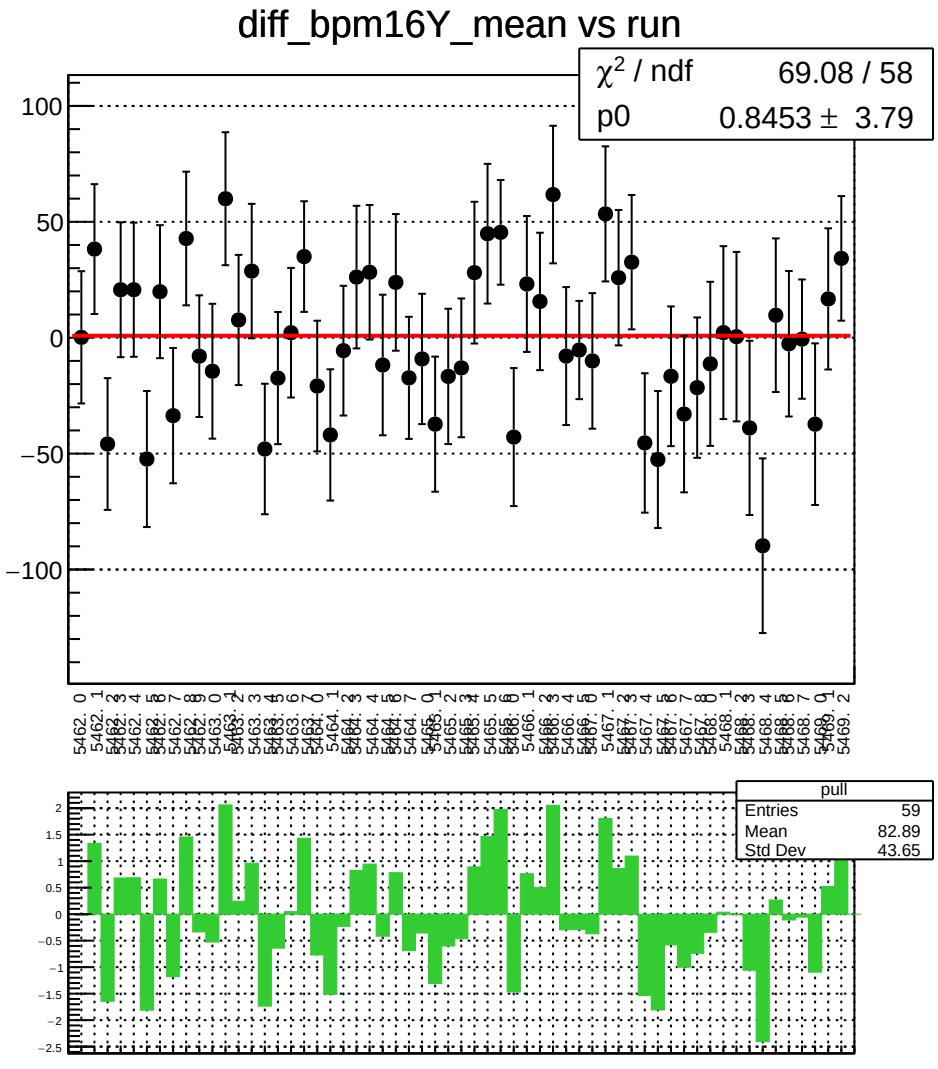

pull1D
Entries 59
Mean −0.03249
Std Dev 1.068

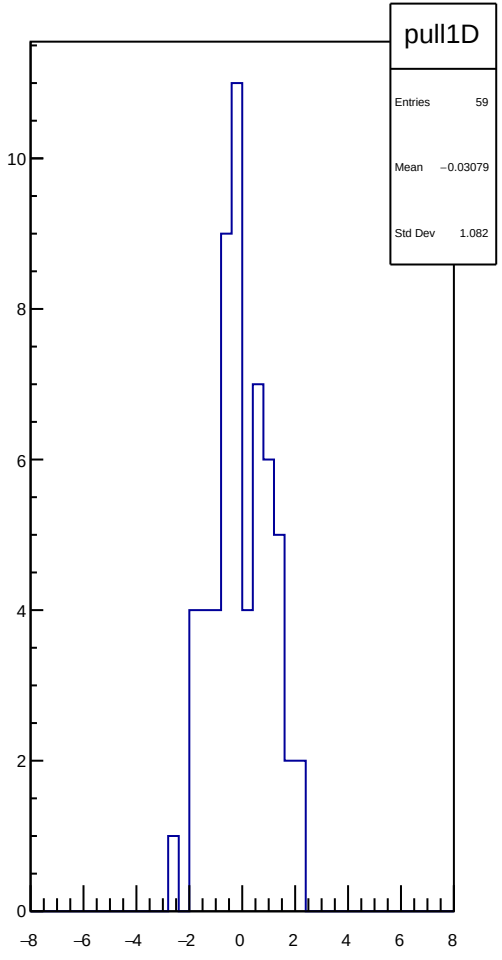

diff_bpm12Y_rms vs run
χ² / ndf 1.09e+04 / 58
p0 4464 ± 4.215
8500
8000
7500
7000
6500
6000
5500
5000
4500
4000
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

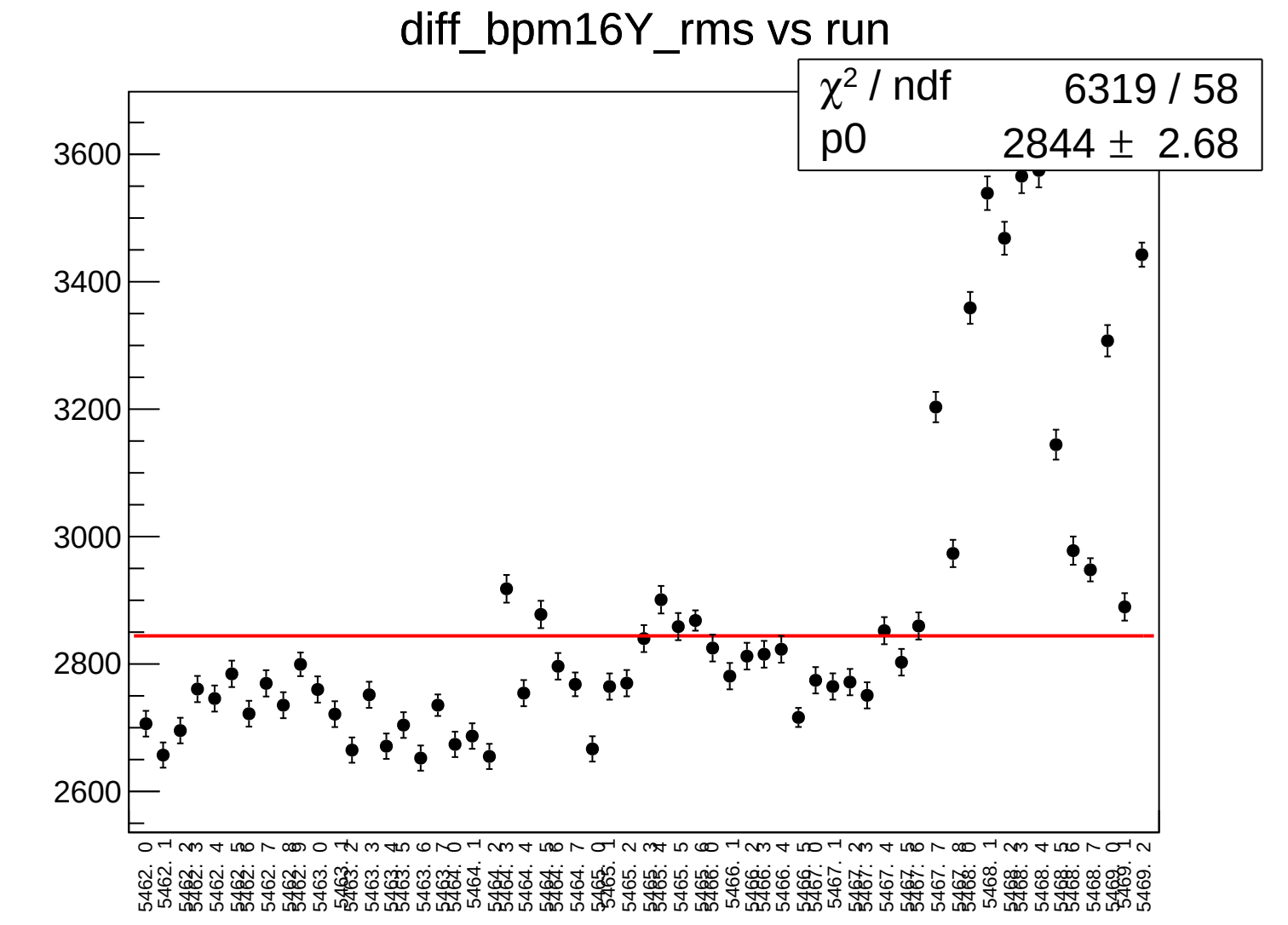

diff_bpm16X_mean vs run
χ^2 / ndf 53.25 / 58
p0 −17.2 ± 18.54
400
200
0
−200
−400
−600
pull
Entries 59
Mean 146.8
Std Dev 144.4
2
1
0
−1
−2


pull1D
Entries 59
Mean −0.004451
Std Dev 0.95
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_bpm16X_rms vs run
χ² / ndf 612.4 / 58
p0 1.395e+04 ± 13.11
14800
14600
14400
14200
14000
13800
13600
13400
13200
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2


diff_bpm16Y_mean vs run
χ^2 / ndf 69.08 / 58
p0 0.8453 ± 3.79
pull
Entries 59
Mean 82.89
Std Dev 43.65


pull1D
Entries 59
Mean −0.03079
Std Dev 1.082


diff_bpm16Y_rms vs run
χ² / ndf 6319 / 58
p0 2844 ± 2.68
3600
3400
3200
3000
2800
2600
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
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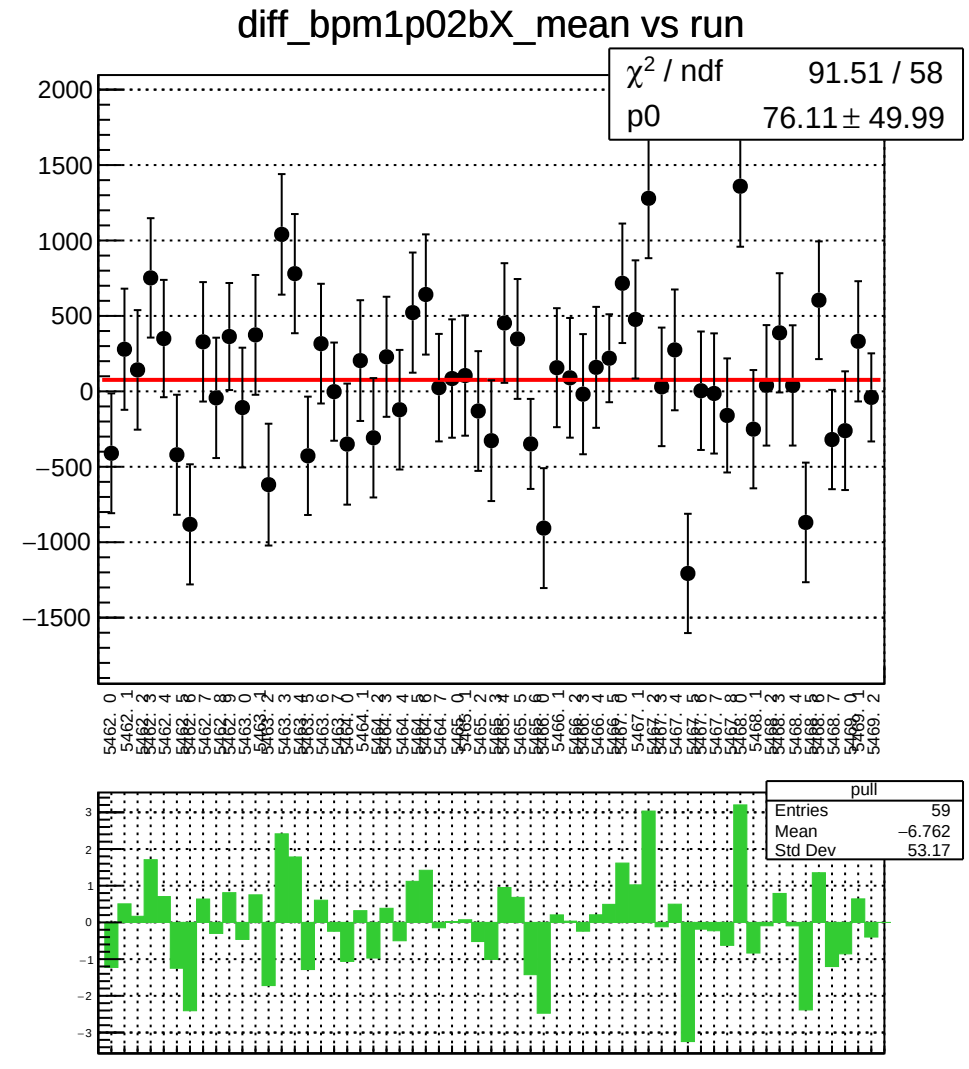
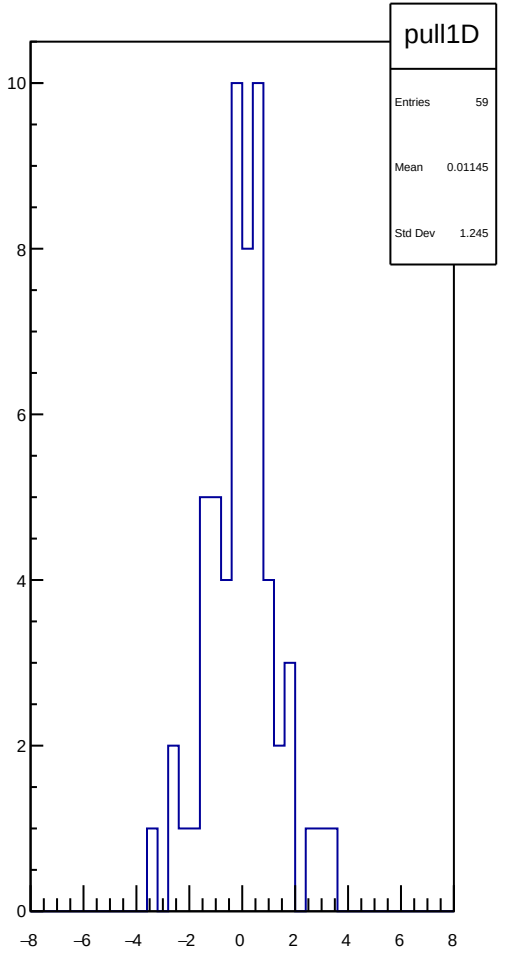
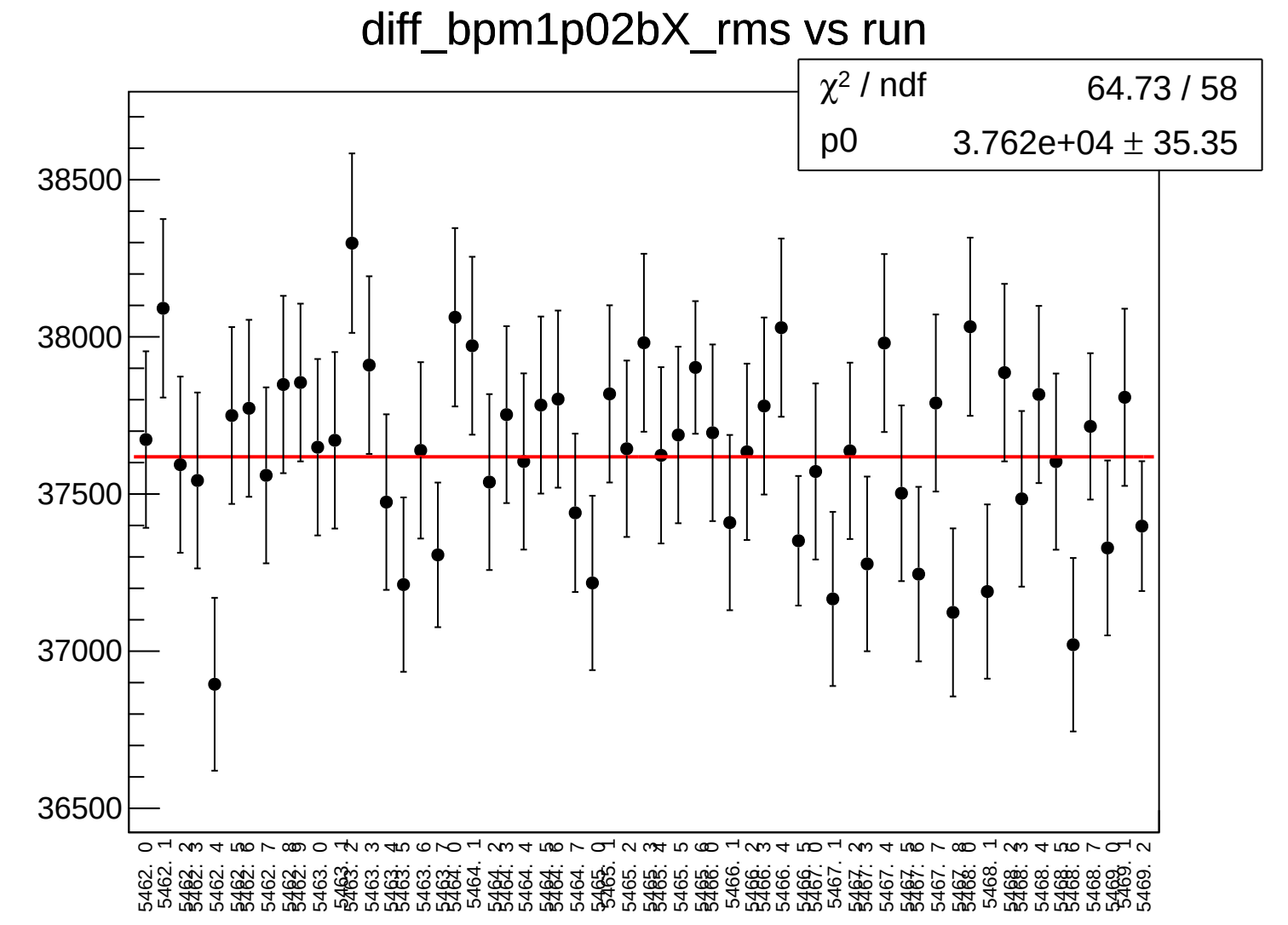
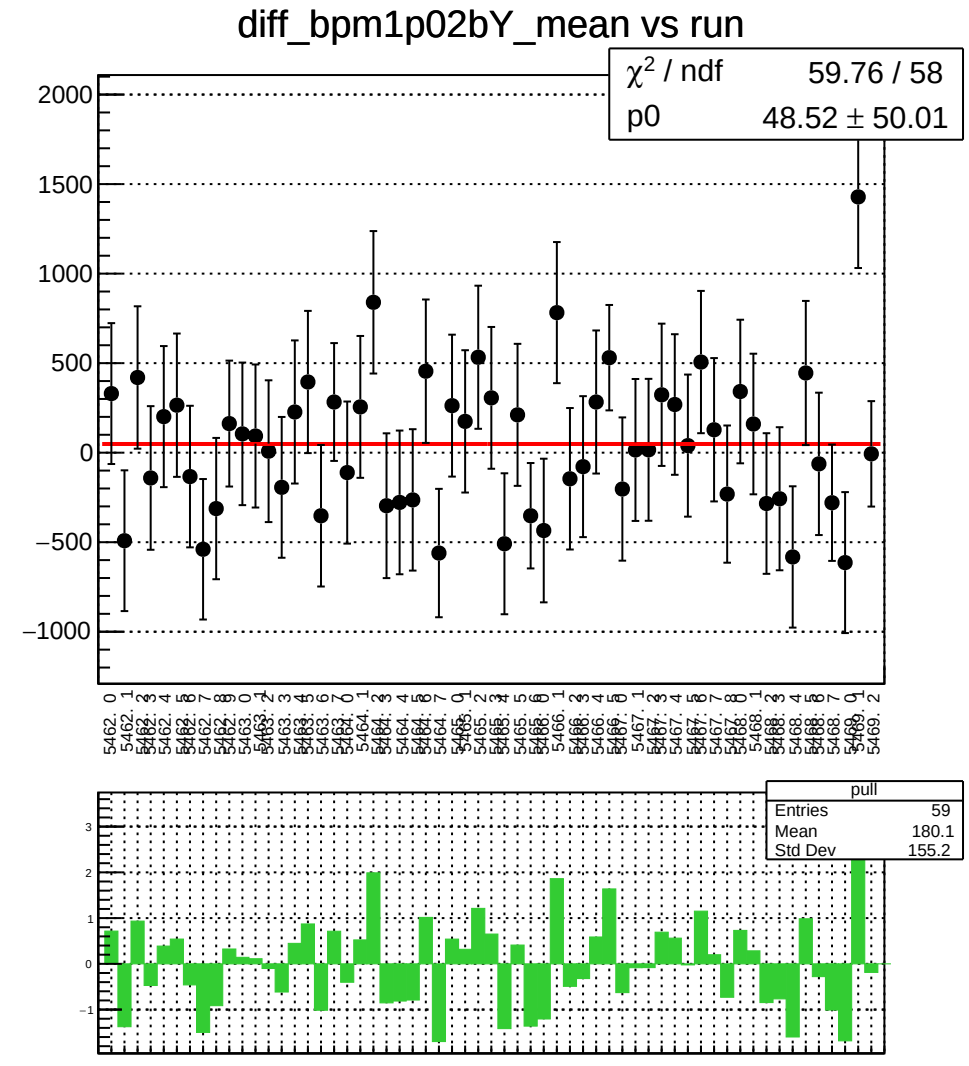
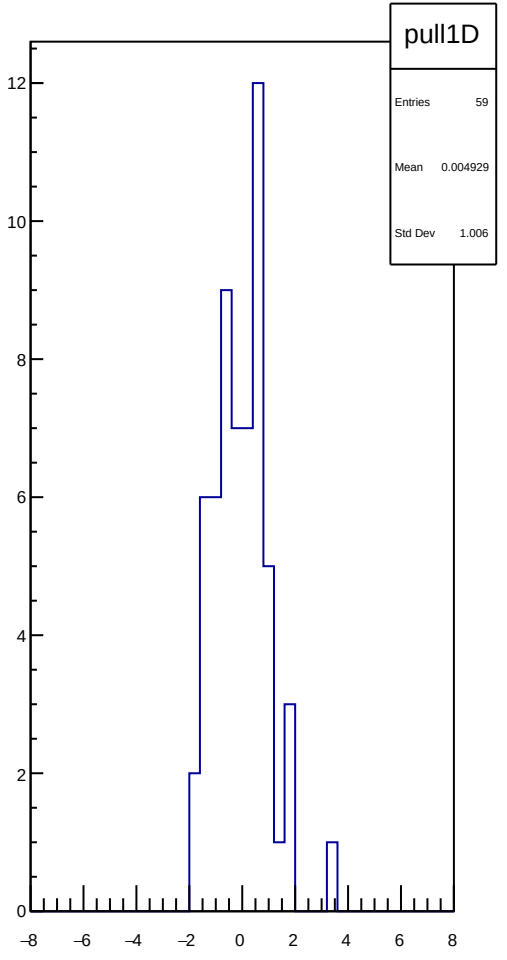
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

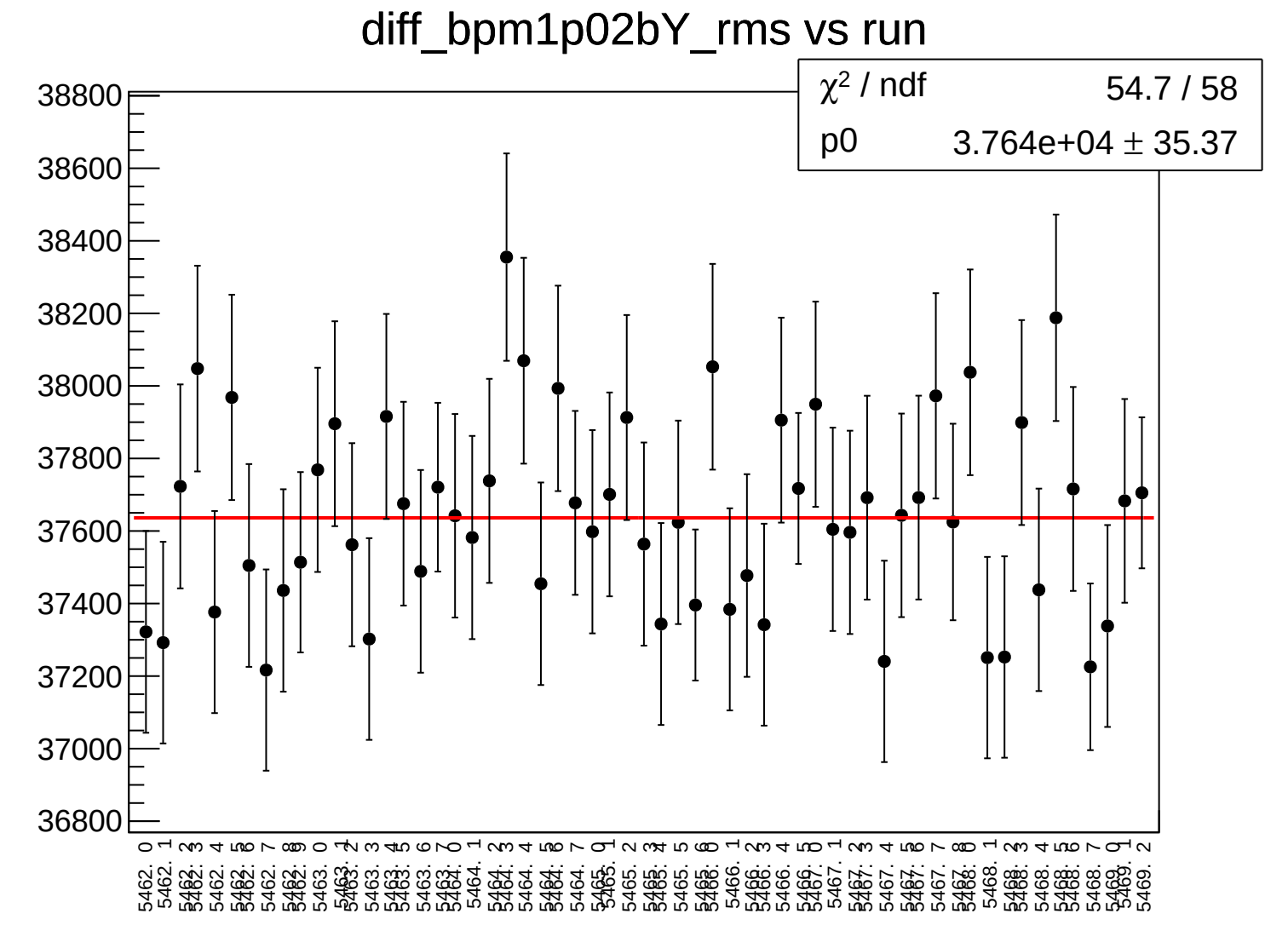

diff_bpm1p02bX_mean vs run
χ² / ndf 91.51 / 58
p0 76.11 ± 49.99
pull
Entries 59
Mean −6.762
Std Dev 53.17

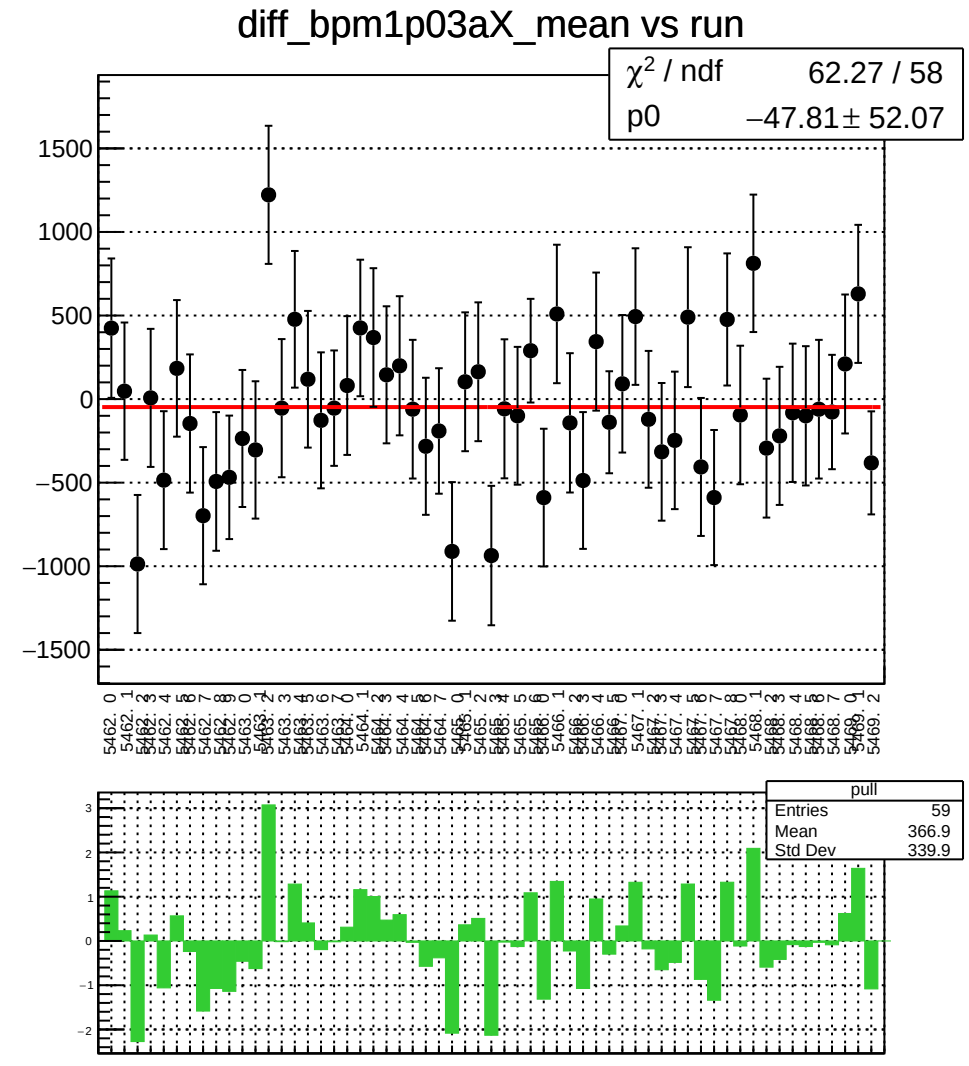

pull1D
Entries 59
Mean 0.01145
Std Dev 1.245

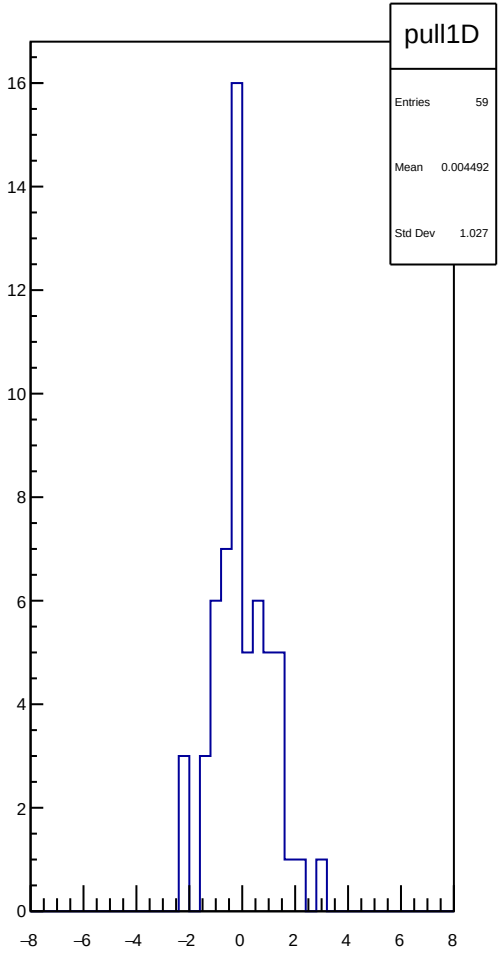

diff_bpm1p02bX_rms vs run
χ² / ndf 64.73 / 58
p0 3.762e+04 ± 35.35
38500
38000
37500
37000
36500

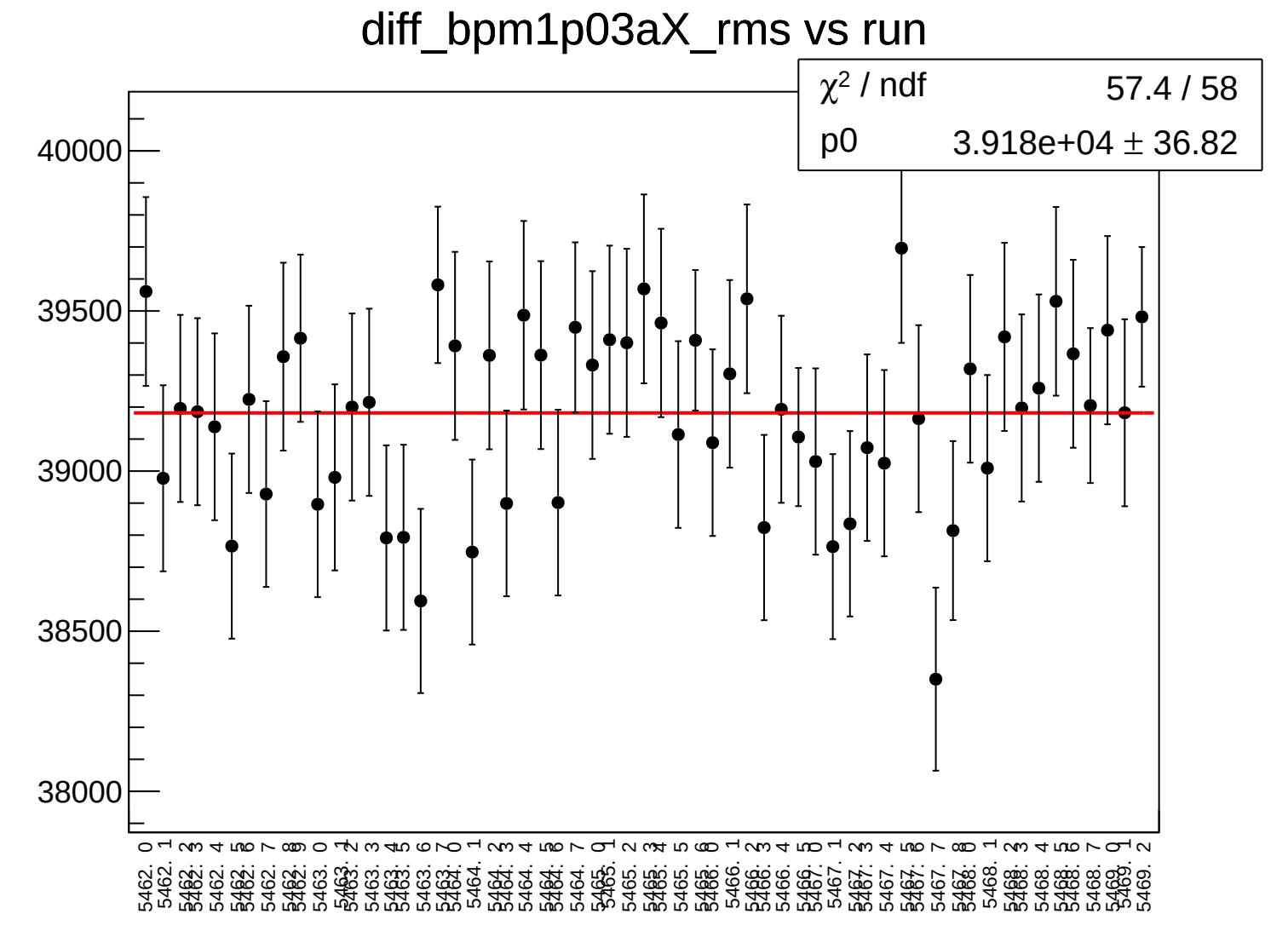

diff_bpm1p02bY_mean vs run
χ² / ndf 59.76 / 58
p0 48.52 ± 50.01
pull
Entries 59
Mean 180.1
Std Dev 155.2

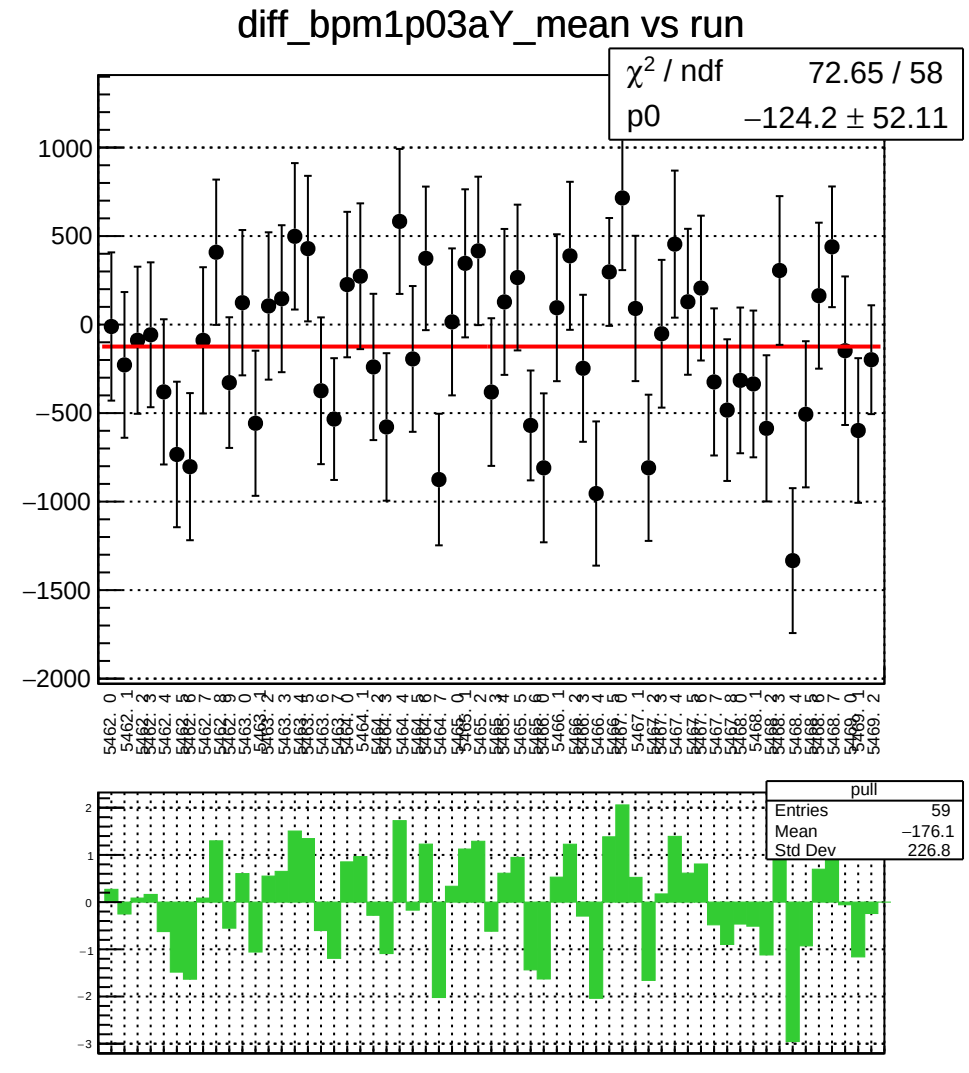

pull1D
Entries 59
Mean 0.004929
Std Dev 1.006

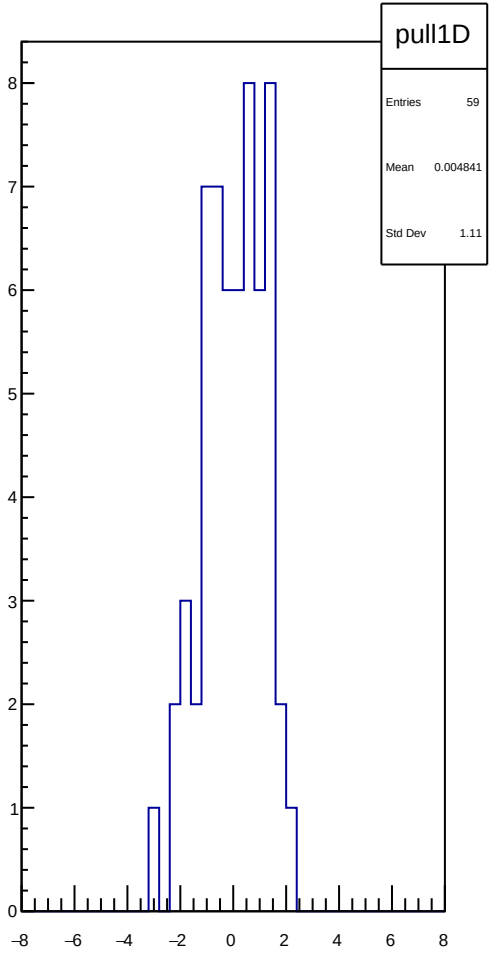

diff_bpm1p02bY_rms vs run
χ² / ndf 54.7 / 58
p0 3.764e+04 ± 35.37
38800
38600
38400
38200
38000
37800
37600
37400
37200
37000
36800

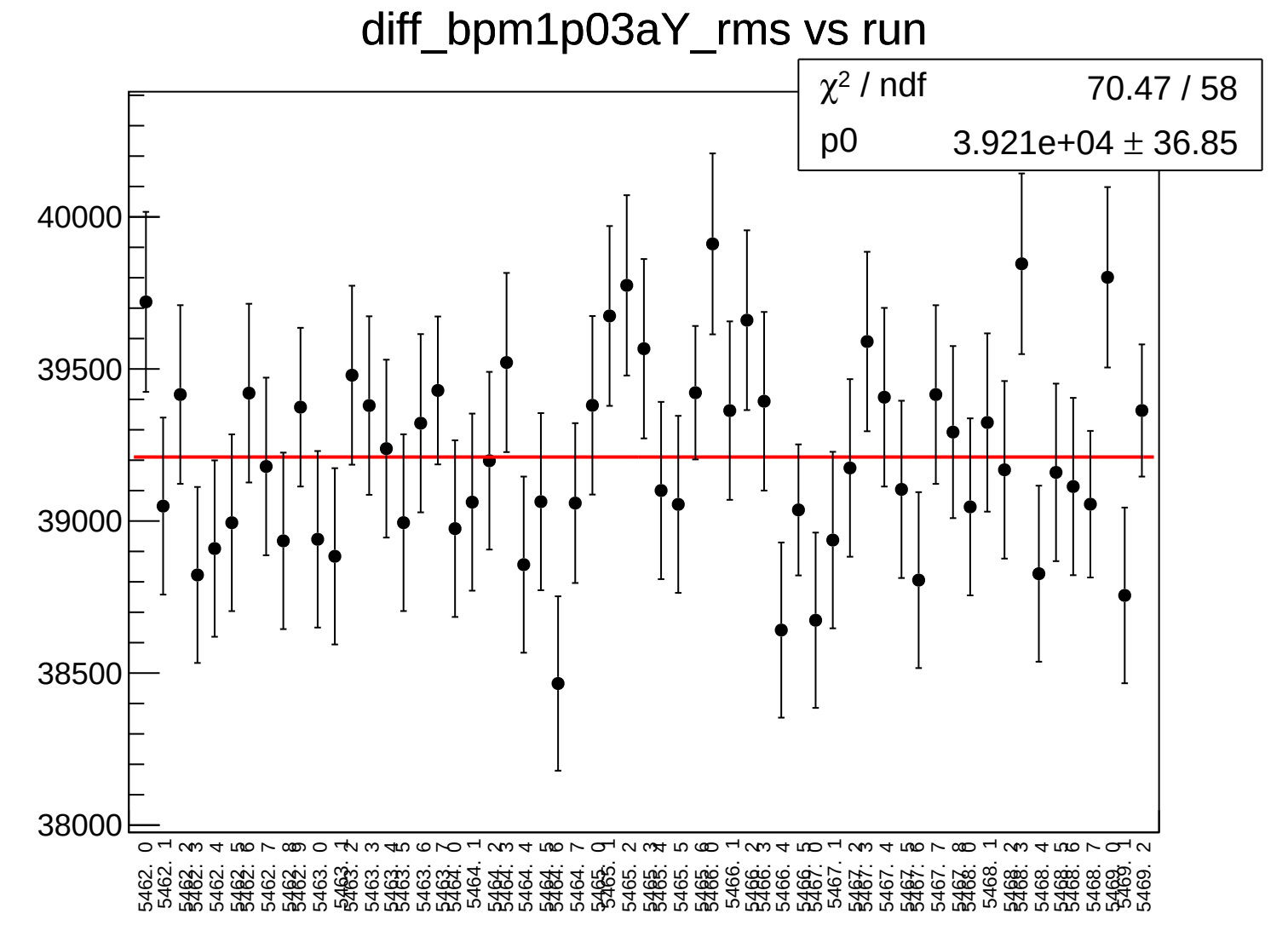

diff_bpm1p03aX_mean vs run
χ² / ndf 62.27 / 58
p0 −47.81 ± 52.07
pull
Entries 59
Mean 366.9
Std Dev 339.9

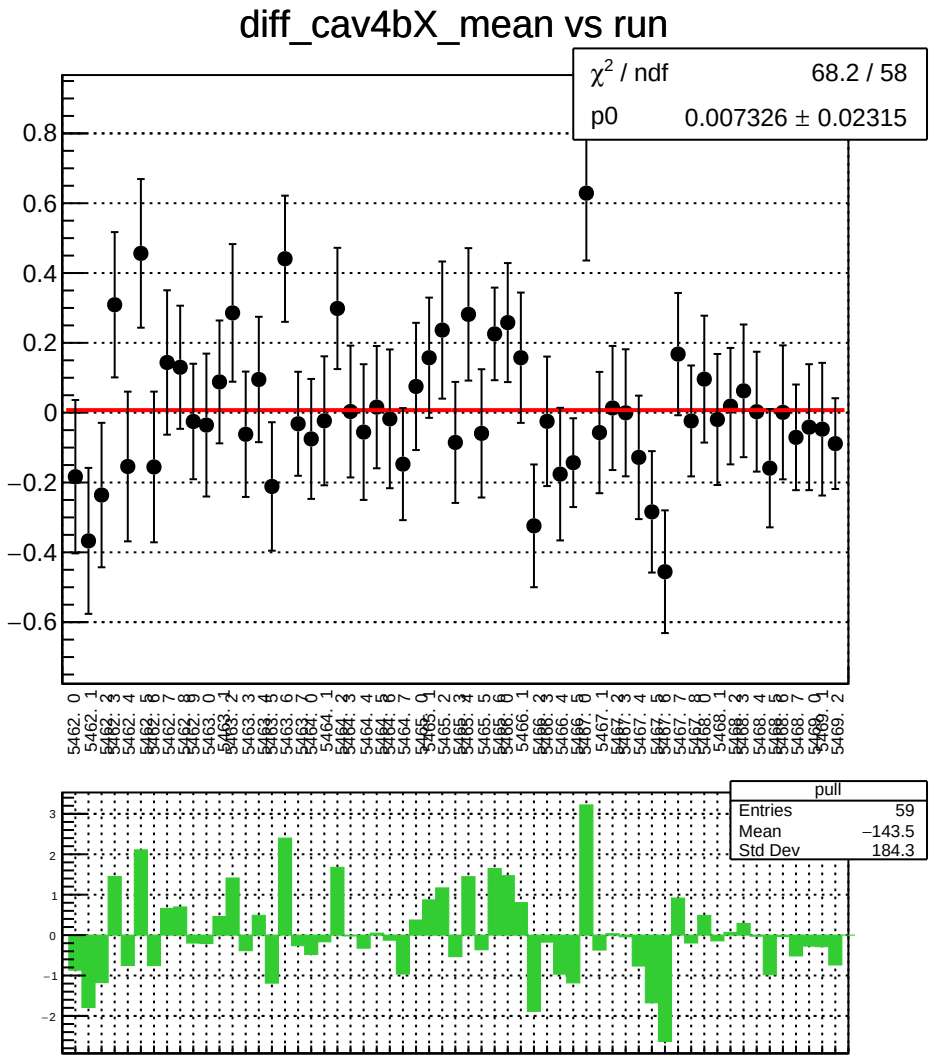

pull1D
Entries 59
Mean 0.004492
Std Dev 1.027

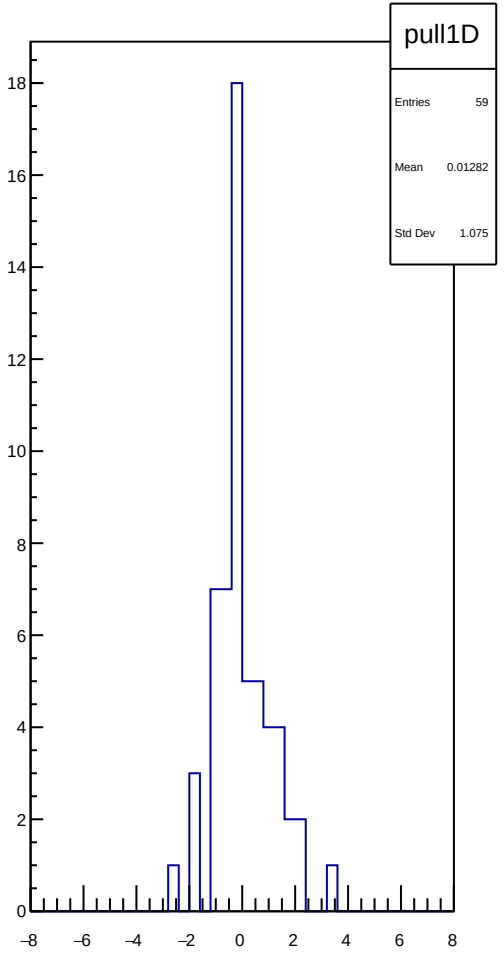

diff_bpm1p03aX_rms vs run
χ² / ndf 57.4 / 58
p0 3.918e+04 ± 36.82
40000
39500
39000
38500
38000

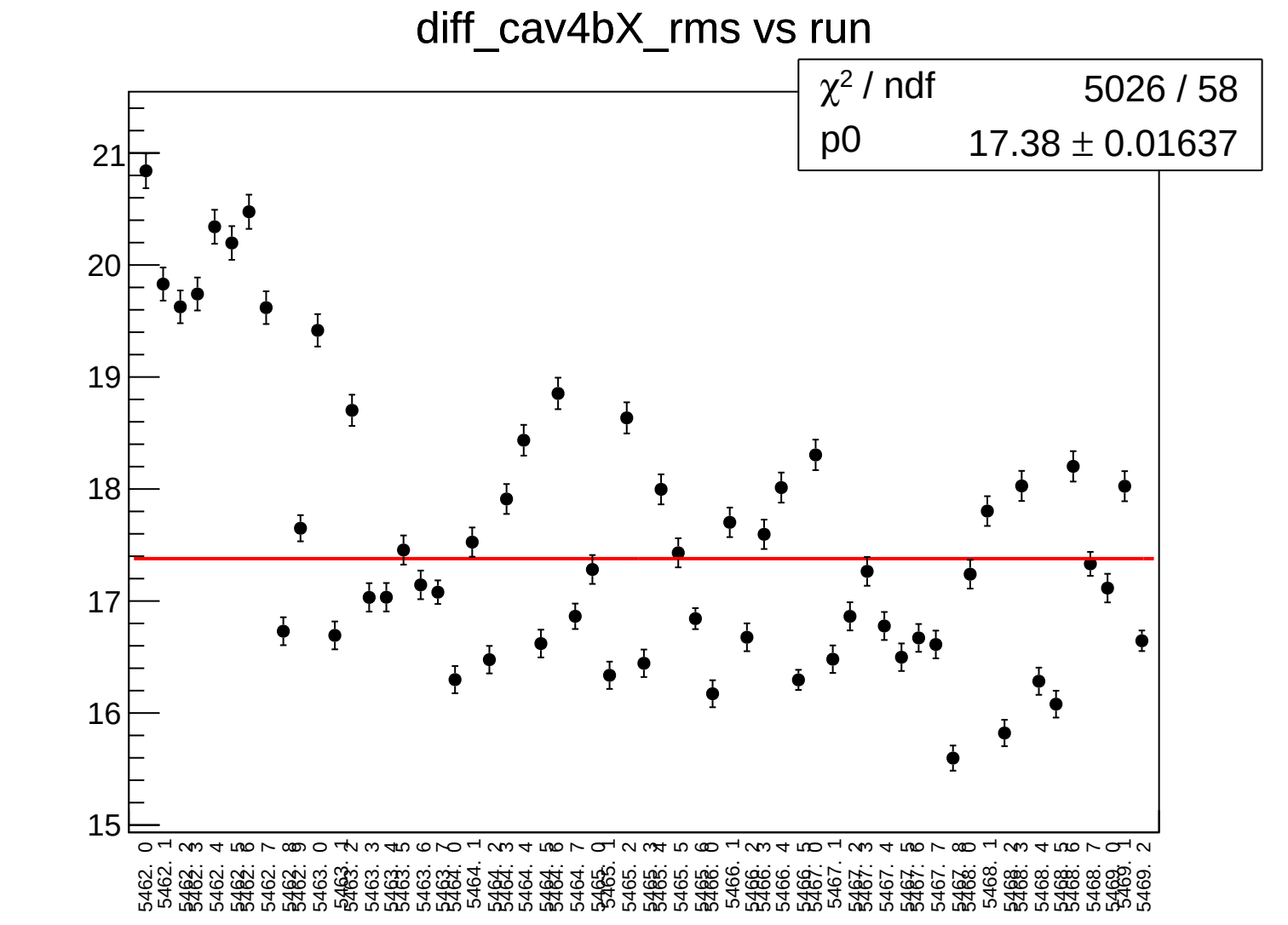

diff_bpm1p03aY_mean vs run
χ² / ndf 72.65 / 58
p0 −124.2 ± 52.11
pull
Entries 59
Mean −176.1
Std Dev 226.8

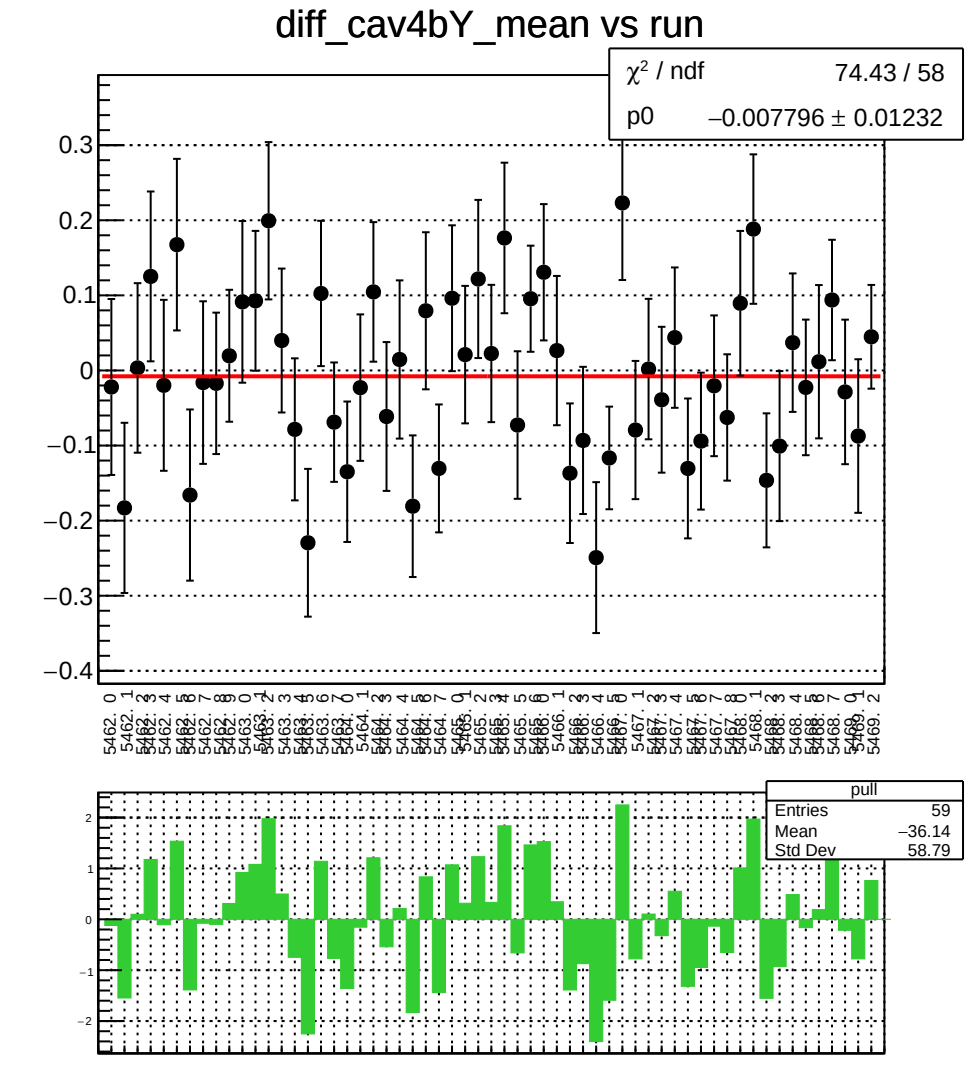

pull1D
Entries 59
Mean 0.004841
Std Dev 1.11

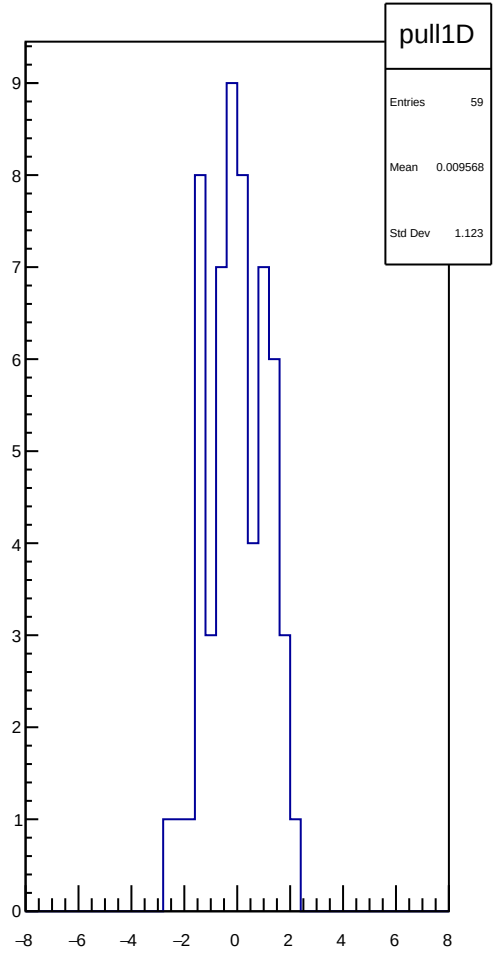

diff_bpm1p03aY_rms vs run
χ² / ndf 70.47 / 58
p0 3.921e+04 ± 36.85
40000
39500
39000
38500
38000

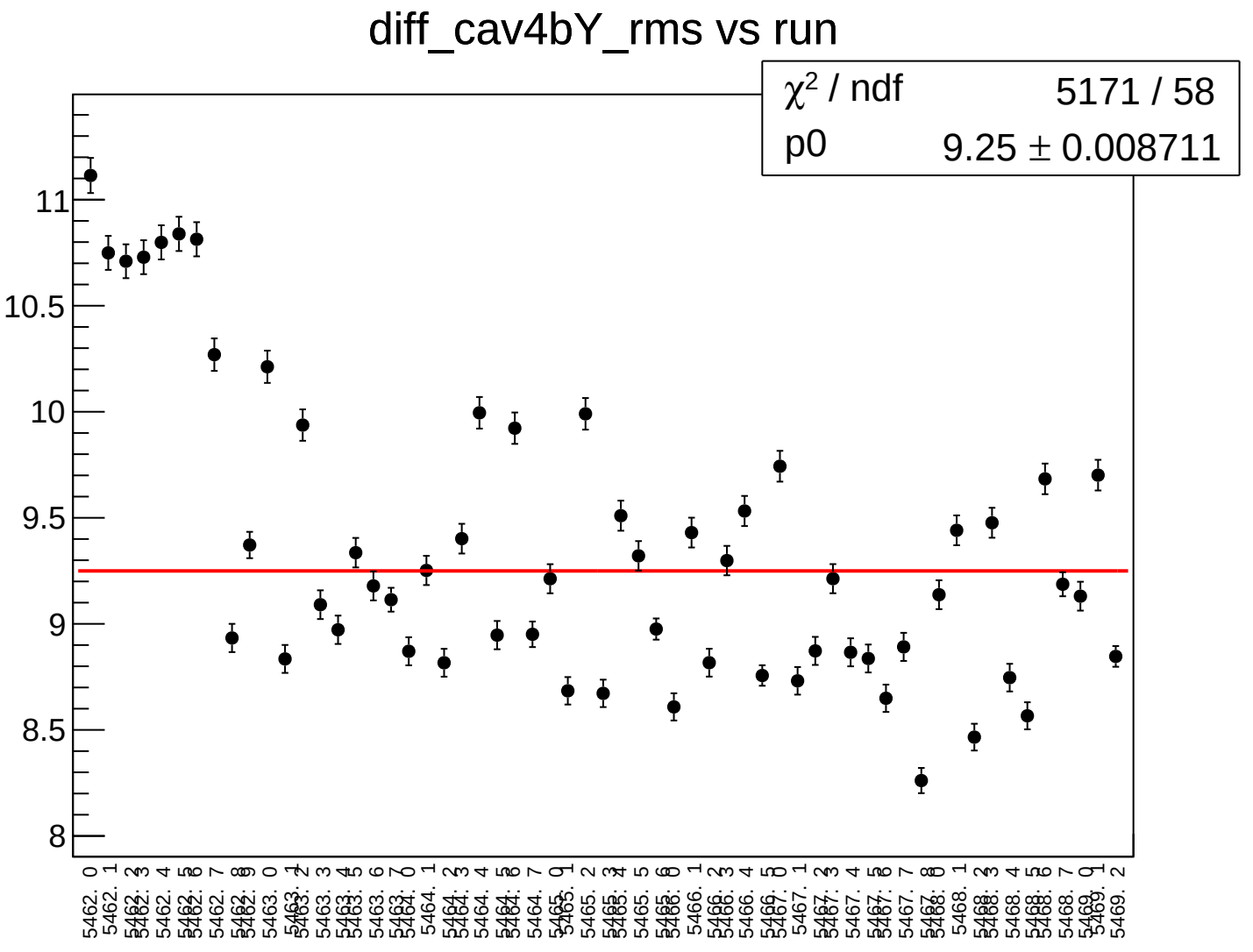

diff_cav4bX_mean vs run
χ² / ndf 68.2 / 58
p0 0.007326 ± 0.02315
pull
Entries 59
Mean −143.5
Std Dev 184.3

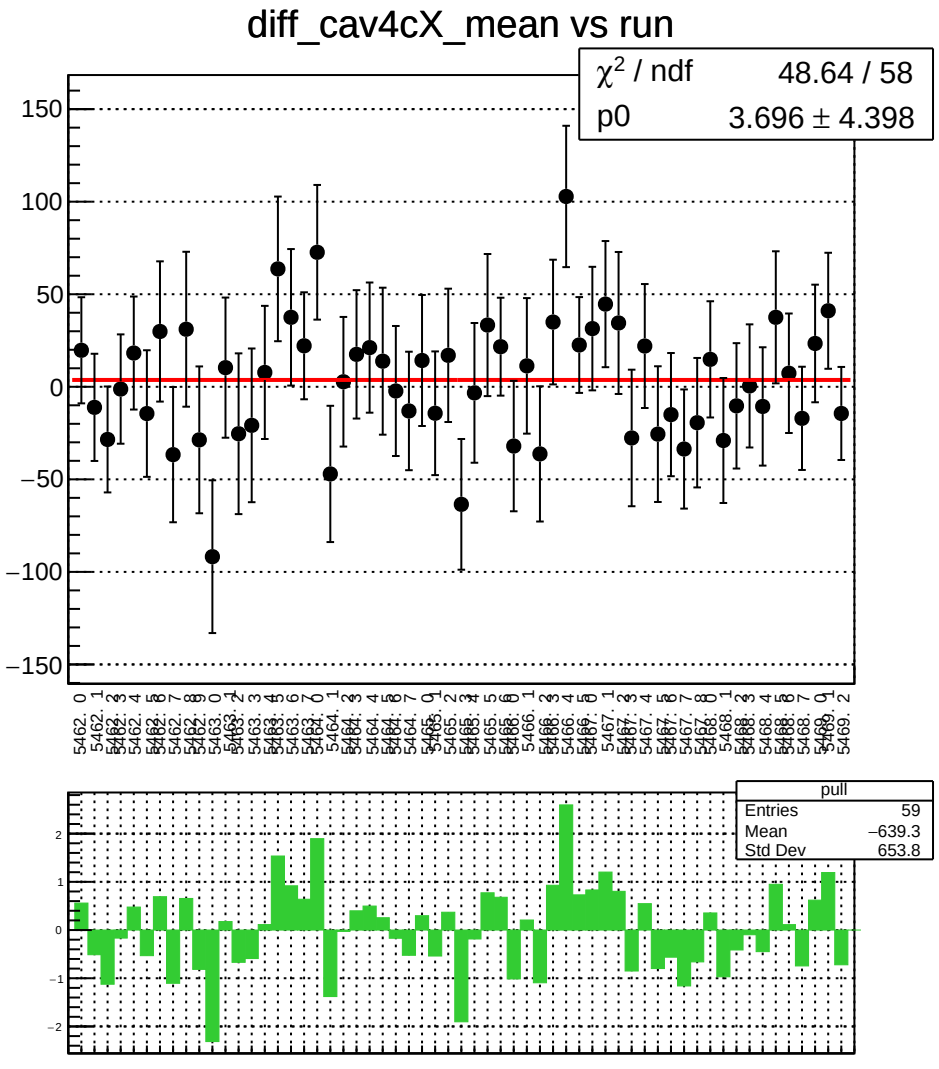

pull1D
Entries 59
Mean 0.01282
Std Dev 1.075

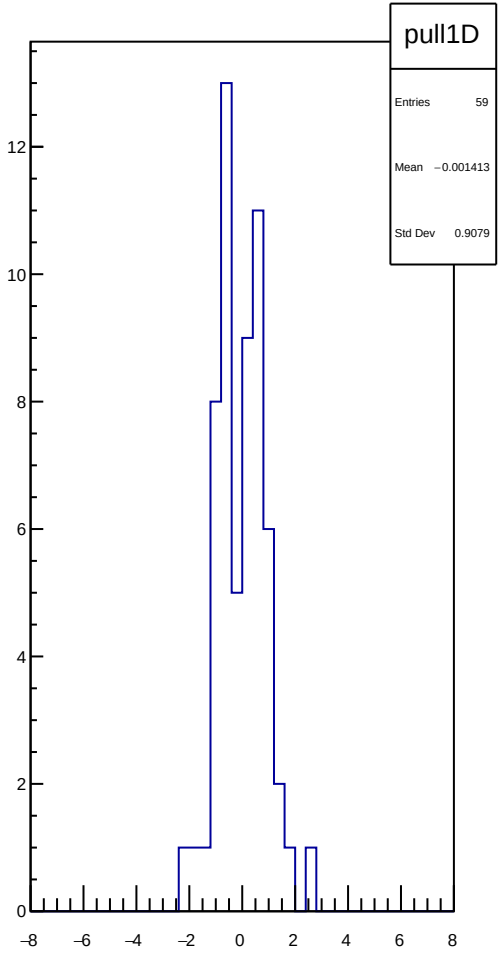

diff_cav4bX_rms vs run
χ² / ndf 5026 / 58
p0 17.38 ± 0.01637
21
20
19
18
17
16
15

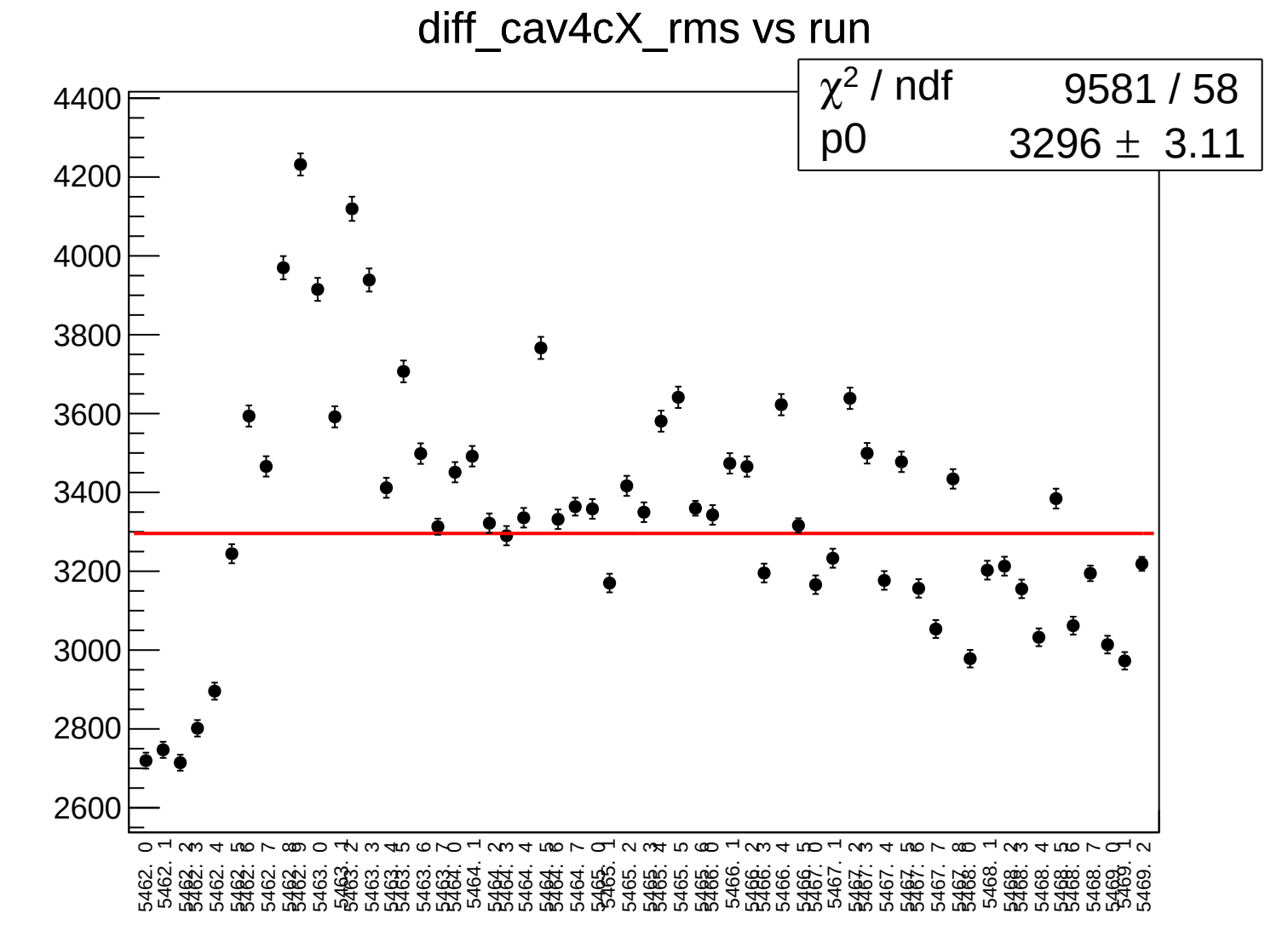

diff_cav4bY_mean vs run
χ² / ndf 74.43 / 58
p0 −0.007796 ± 0.01232
pull
Entries 59
Mean −36.14
Std Dev 58.79


pull1D
Entries 59
Mean 0.009568
Std Dev 1.123


diff_cav4bY_rms vs run
χ² / ndf 5171 / 58
p0 9.25 ± 0.008711
11
10.5
10
9.5
9
8.5
8


diff_cav4cX_mean vs run
χ^2 / ndf 48.64 / 58
p0 3.696 ± 4.398
150
100
50
0
−50
−100
−150
pull
Entries 59
Mean −639.3
Std Dev 653.8
2
1
0
−1
−2


pull1D
Entries 59
Mean −0.001413
Std Dev 0.9079
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


diff_cav4cX_rms vs run
χ² / ndf 9581 / 58
p0 3296 ± 3.11
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
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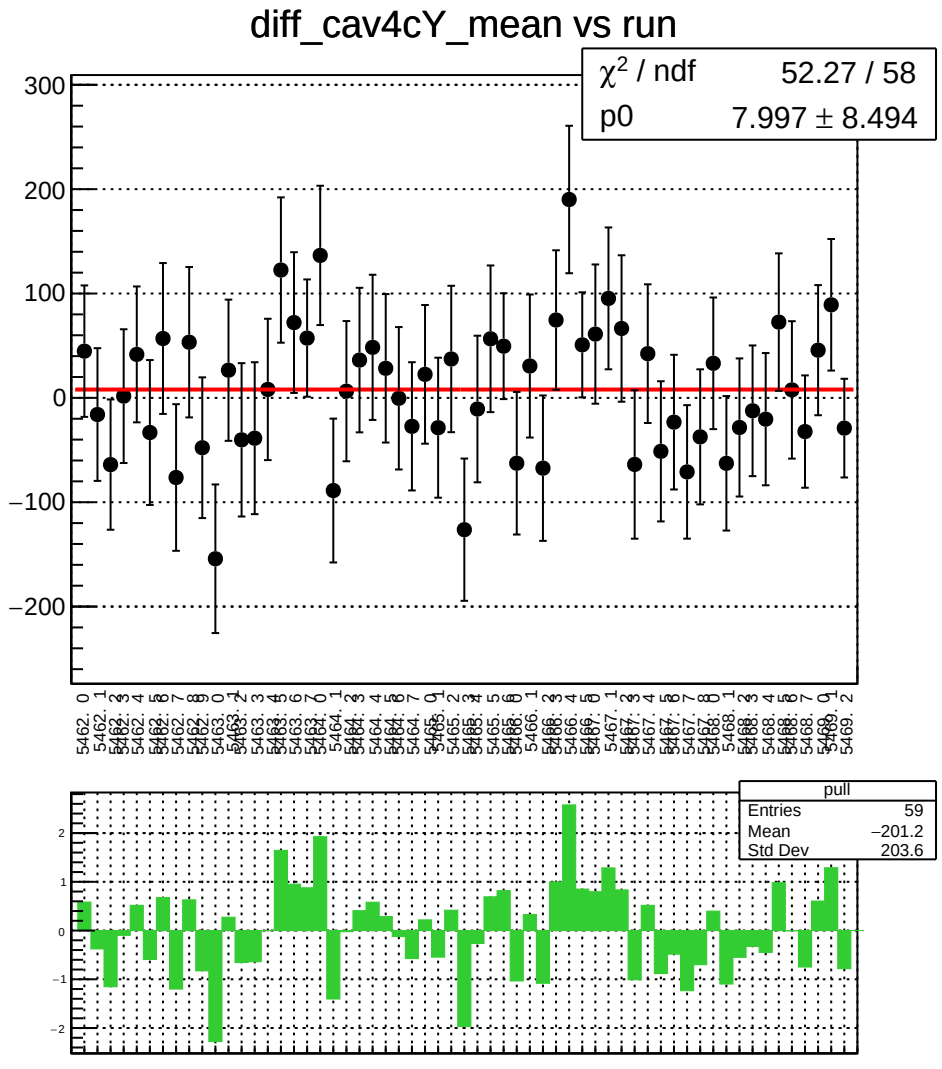
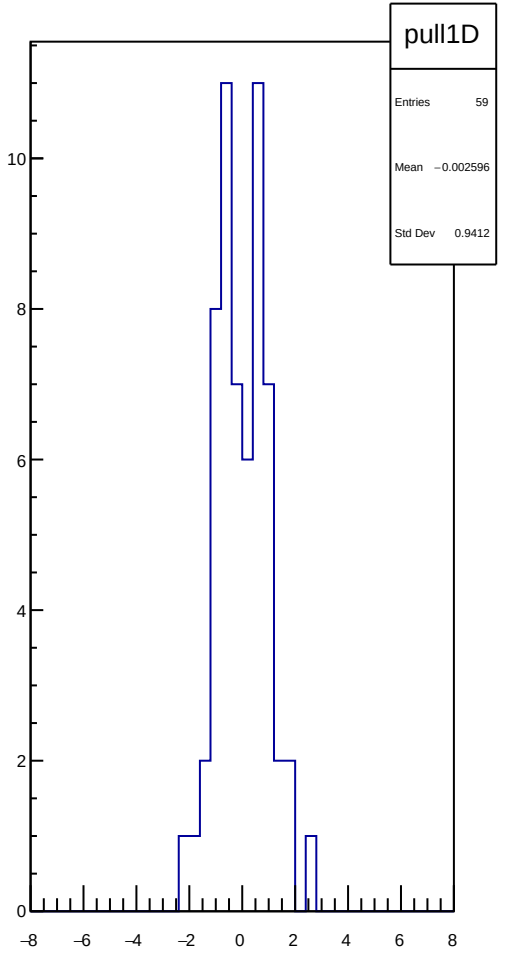
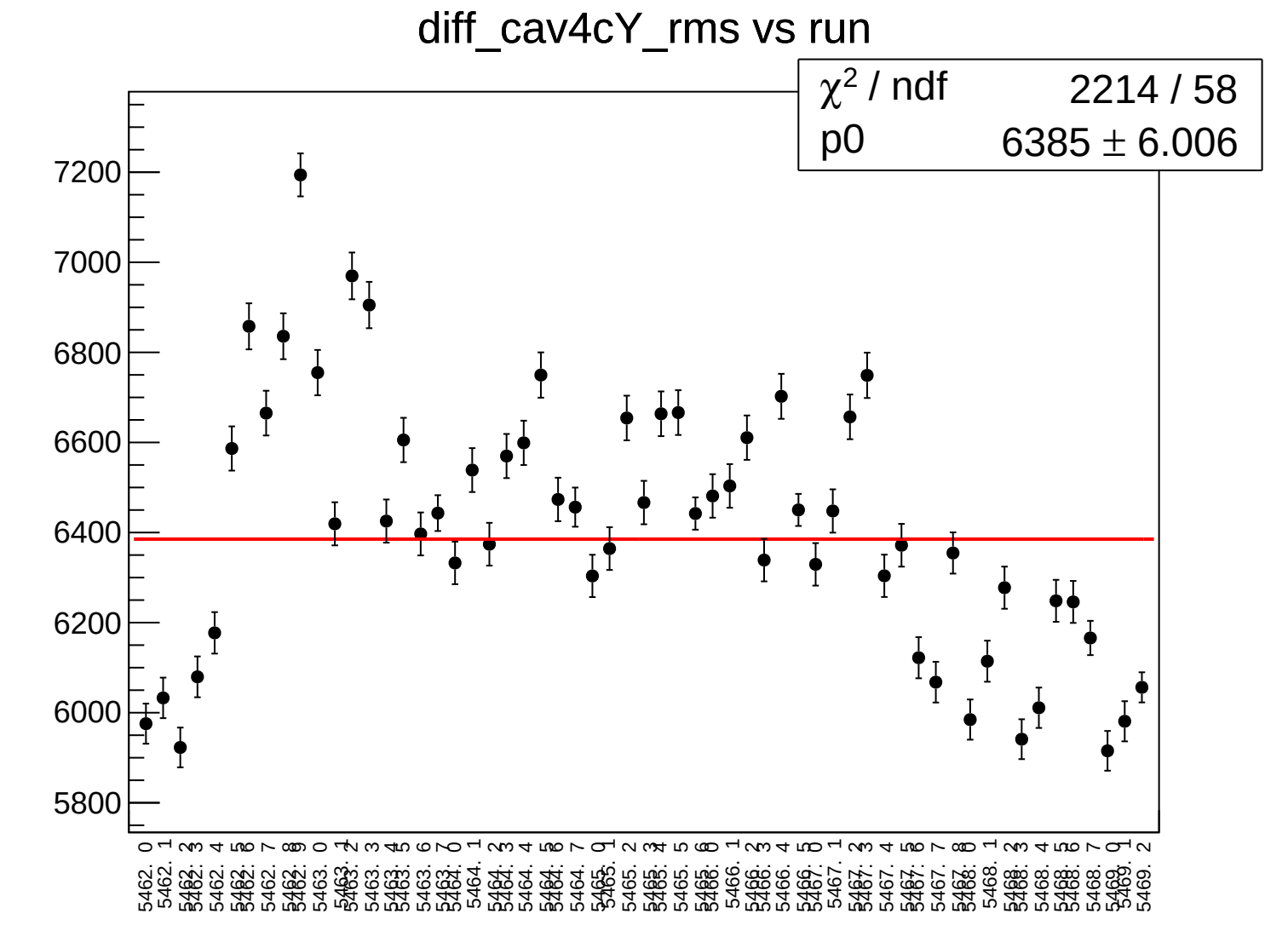
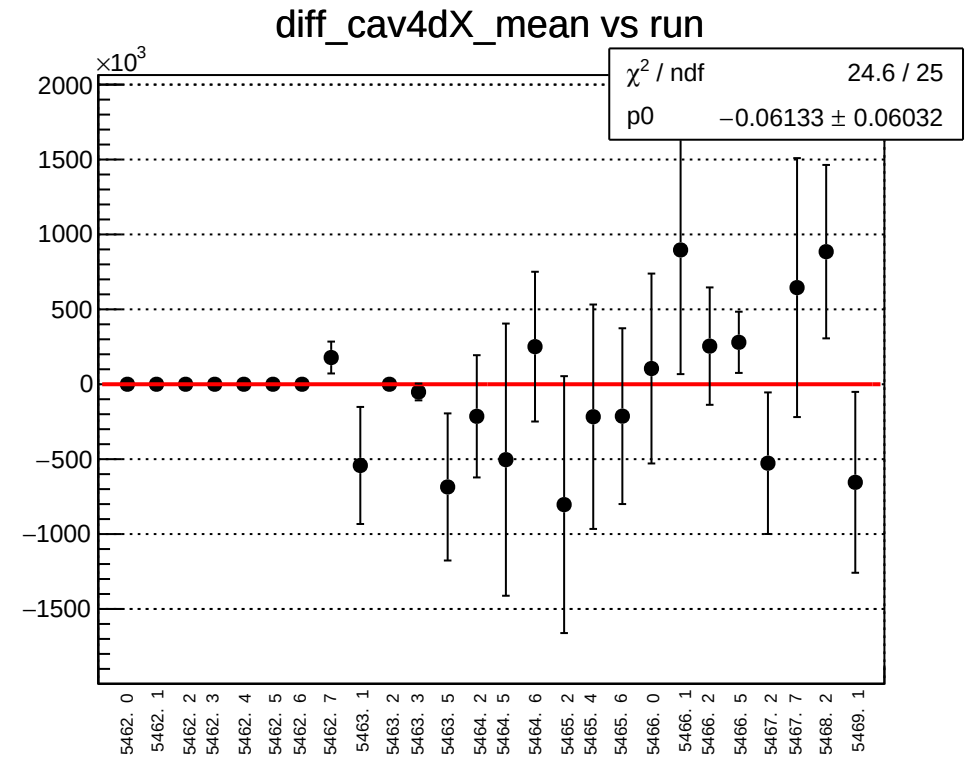
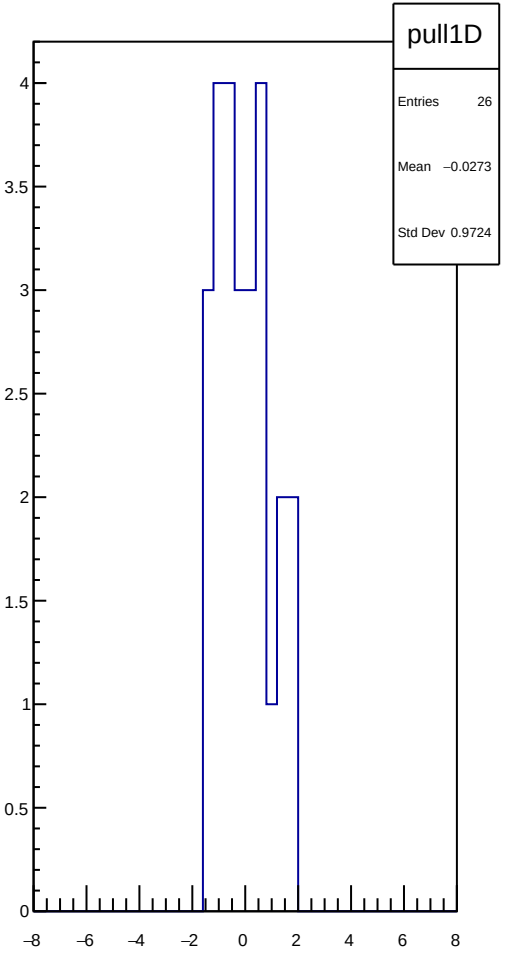
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

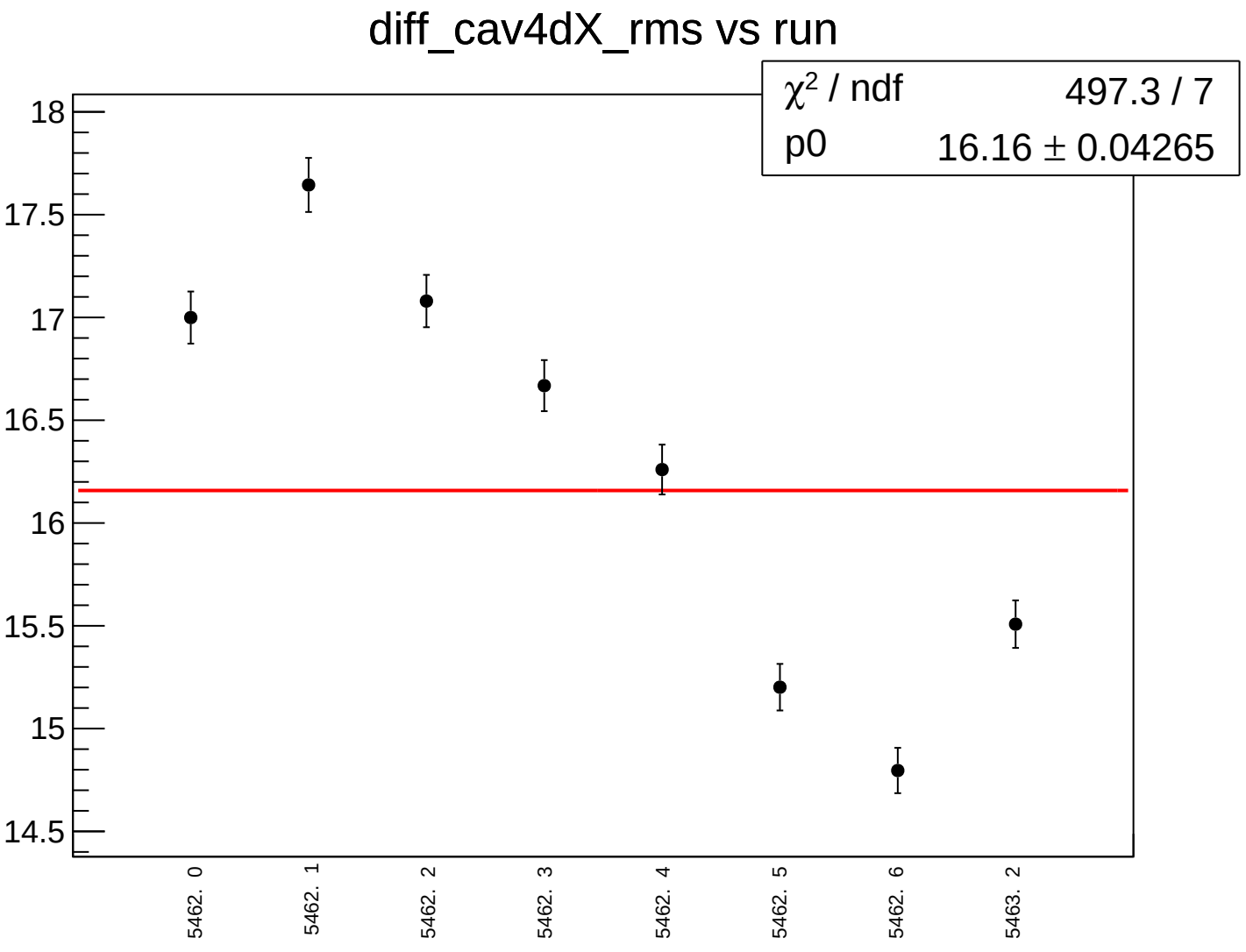

diff_cav4cY_mean vs run
χ² / ndf 52.27 / 58
p0 7.997 ± 8.494
pull
Entries 59
Mean −201.2
Std Dev 203.6

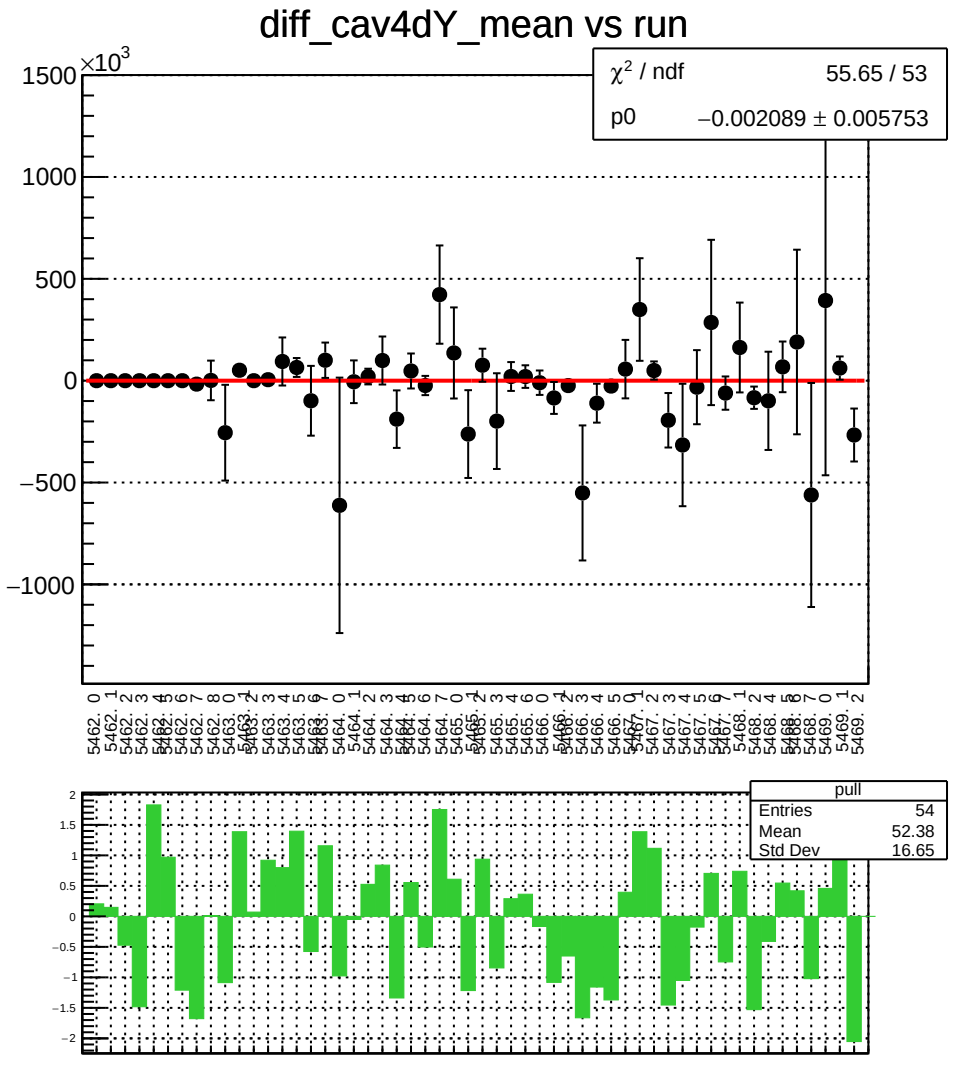

pull1D
Entries 59
Mean −0.002596
Std Dev 0.9412

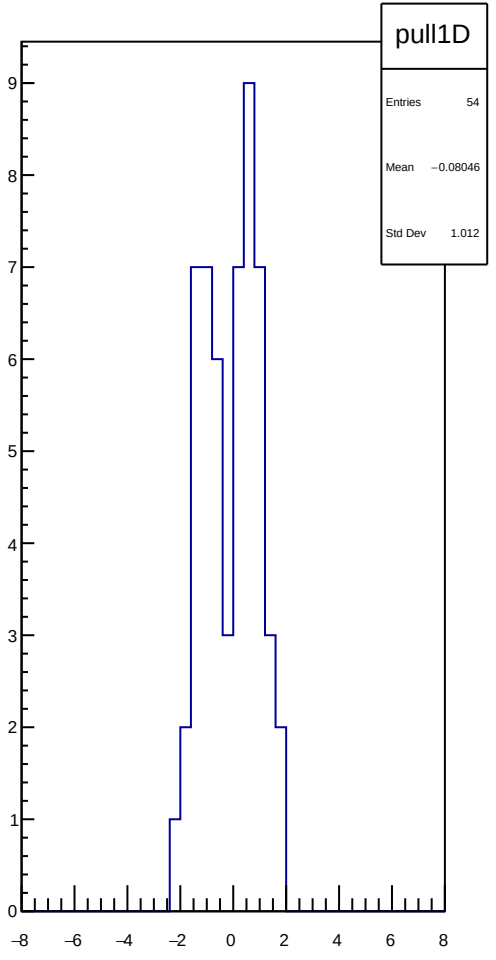

diff_cav4cY_rms vs run
χ² / ndf 2214 / 58
p0 6385 ± 6.006
7200
7000
6800
6600
6400
6200
6000
5800
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

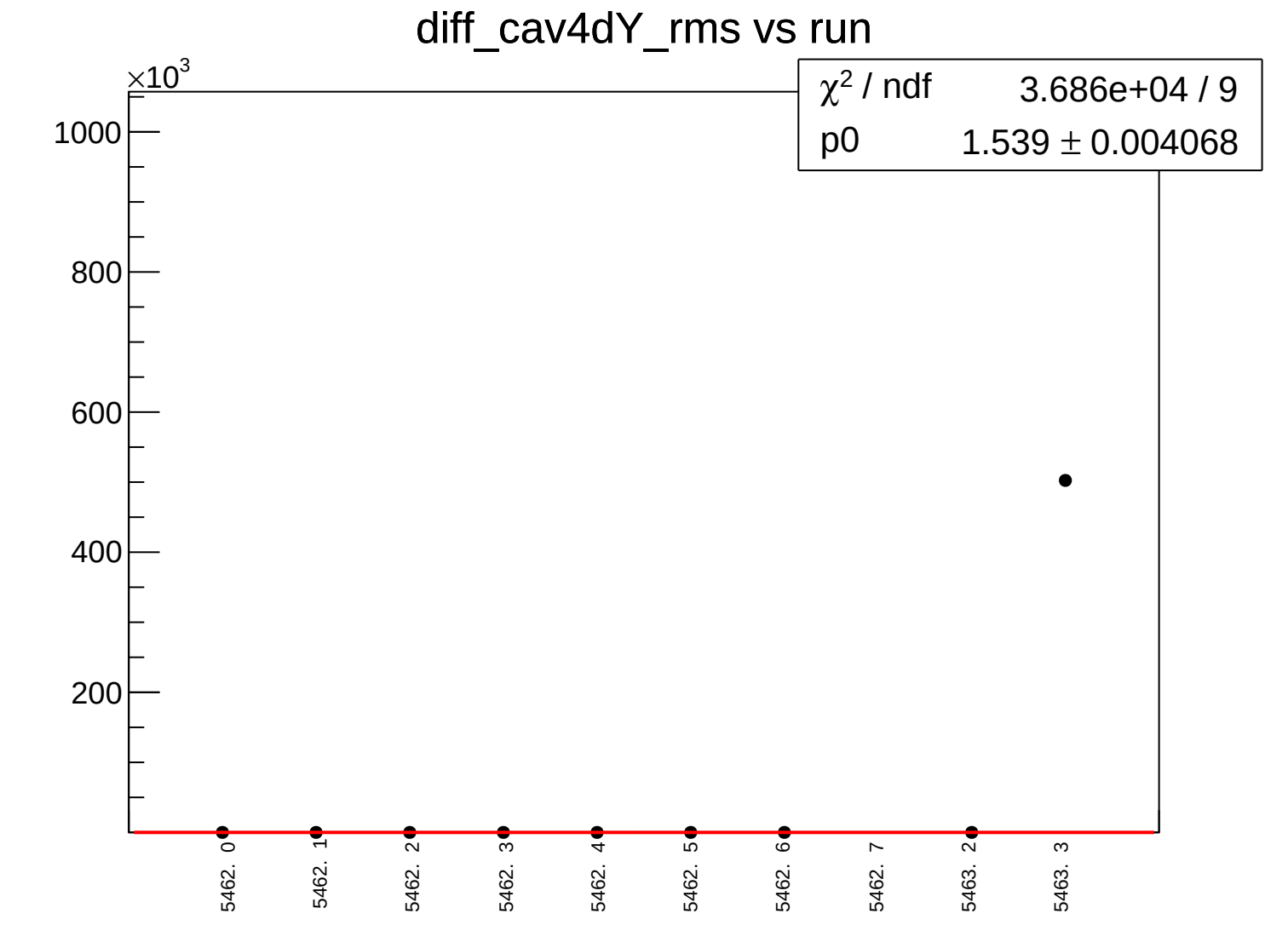

diff_cav4dX_mean vs run
×10^3
χ² / ndf 24.6 / 25
p0 −0.06133 ± 0.06032
2000
1500
1000
500
0
−500
−1000
−1500
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5463. 1
5463. 2
5463. 3
5463. 5
5464. 2
5464. 5
5464. 6
5465. 2
5465. 4
5465. 6
5466. 0
5466. 1
5466. 2
5466. 5
5467. 2
5467. 7
5468. 2
5469. 1
pull
Entries 26
Mean −9.283
Std Dev 30.14
1.5
1
0.5
0
−0.5
−1
−1.5

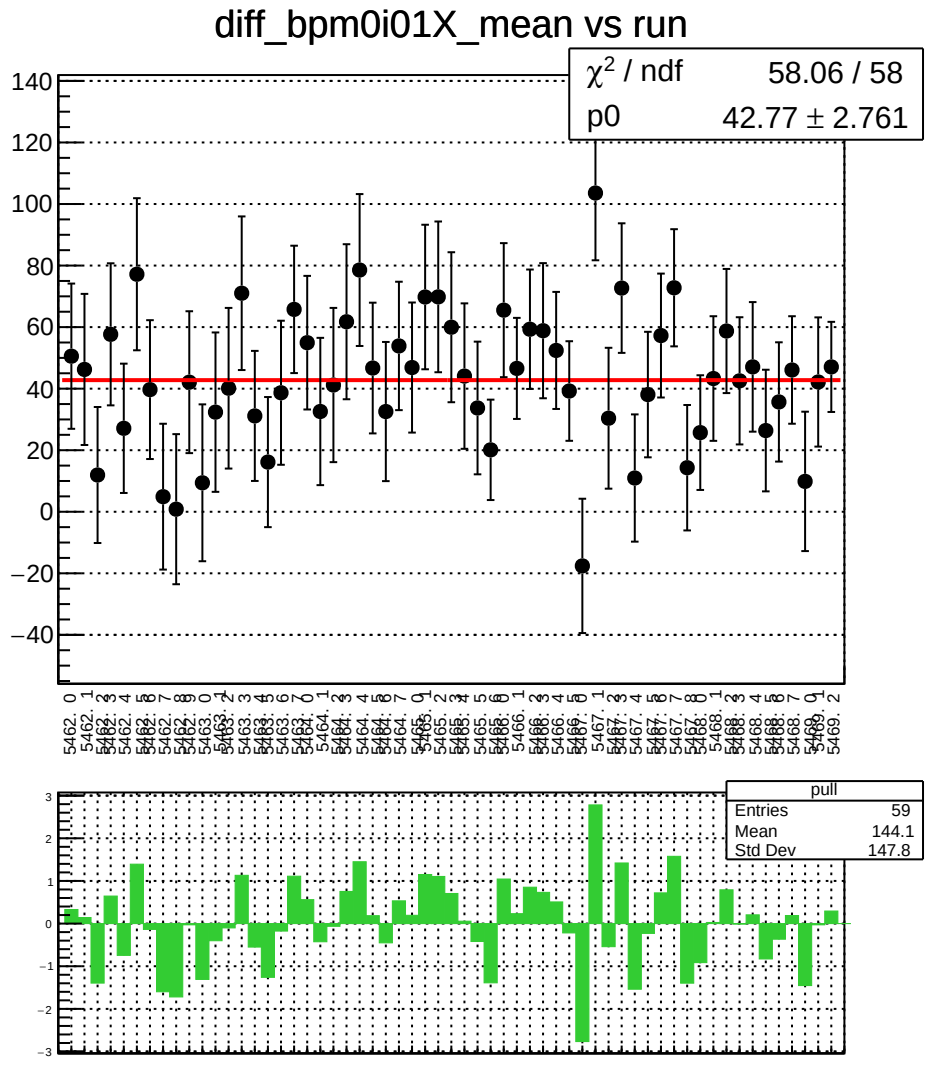

pull1D
Entries 26
Mean −0.0273
Std Dev 0.9724
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

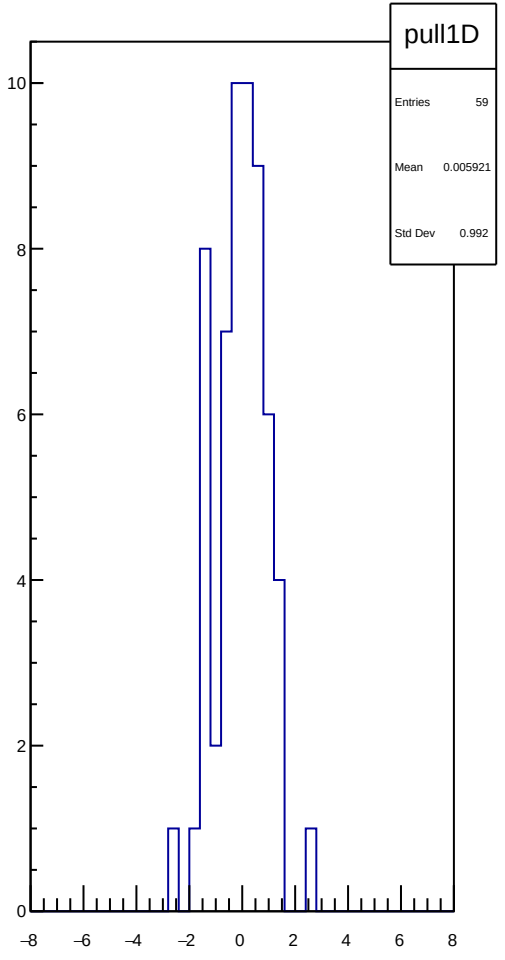

diff_cav4dX_rms vs run
χ² / ndf 497.3 / 7
p0 16.16 ± 0.04265
18
17.5
17
16.5
16
15.5
15
14.5
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5463. 2

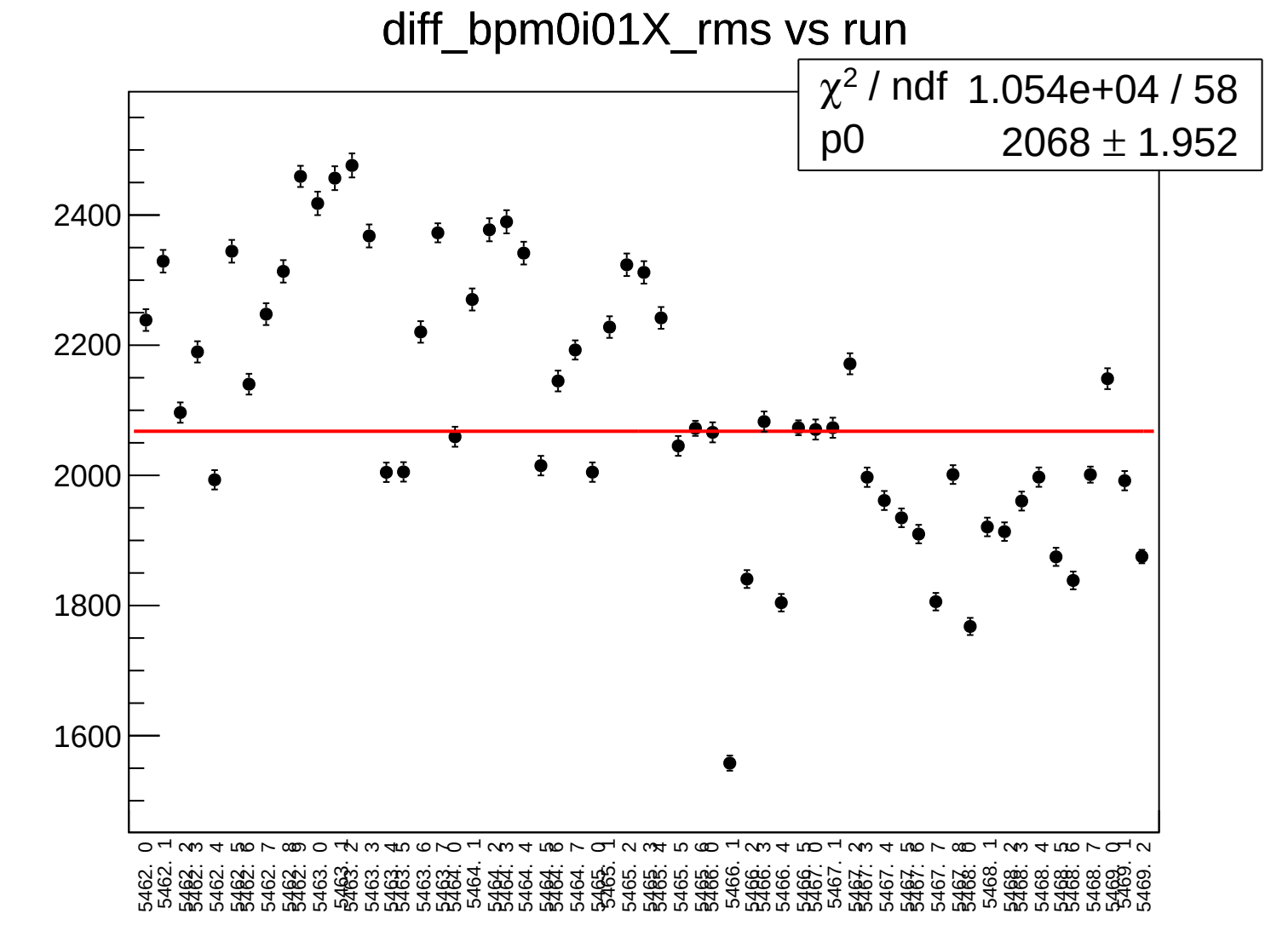

diff_cav4dY_mean vs run
×10^3
χ² / ndf 55.65 / 53
p0 −0.002089 ± 0.005753
pull
Entries 54
Mean 52.38
Std Dev 16.65

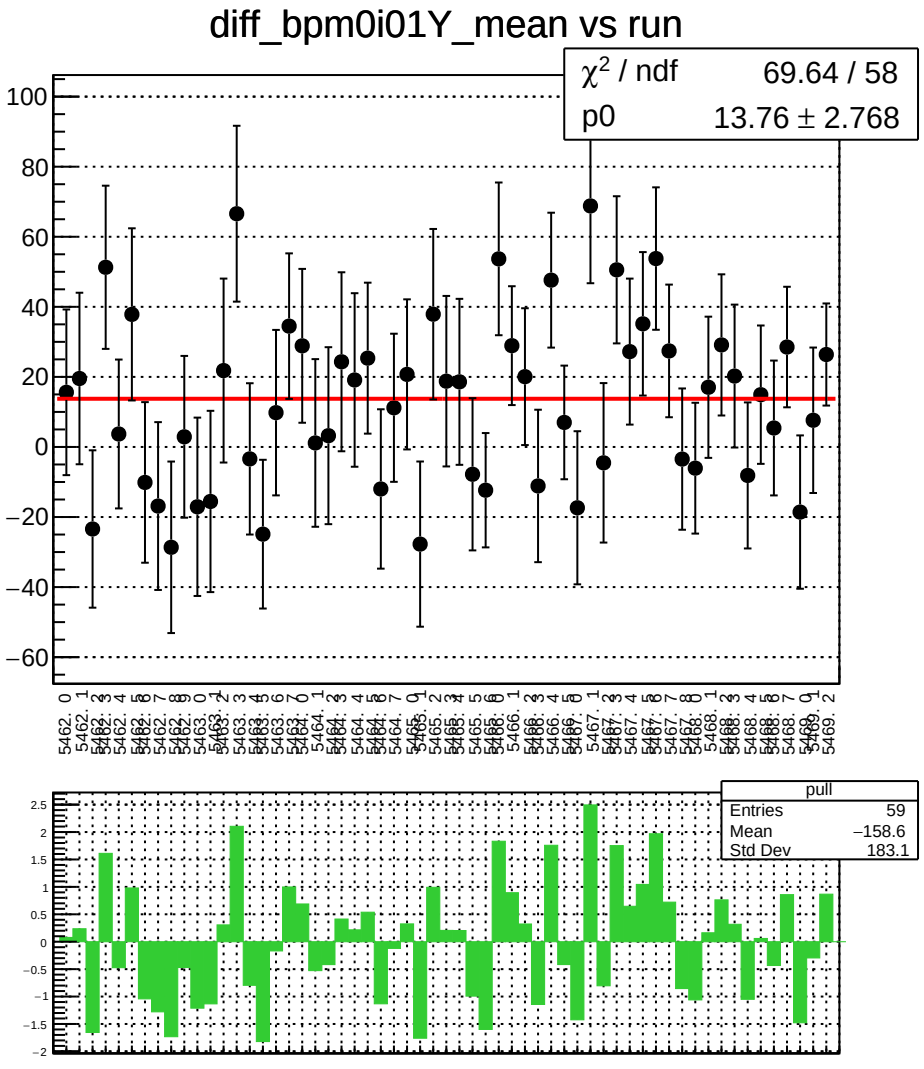

pull1D
Entries 54
Mean −0.08046
Std Dev 1.012

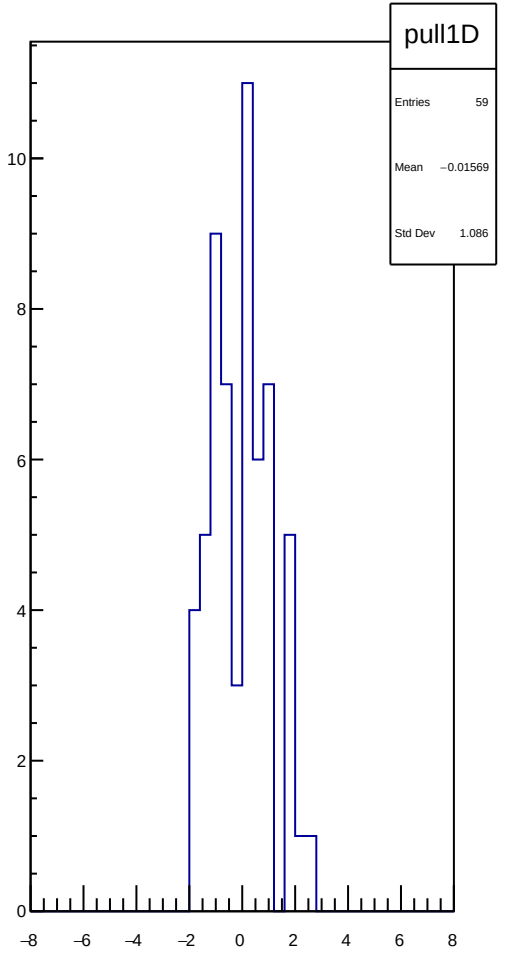

diff_cav4dY_rms vs run
×10^3
1000
800
600
400
200
χ² / ndf 3.686e+04 / 9
p0 1.539 ± 0.004068
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5463. 2
5463. 3

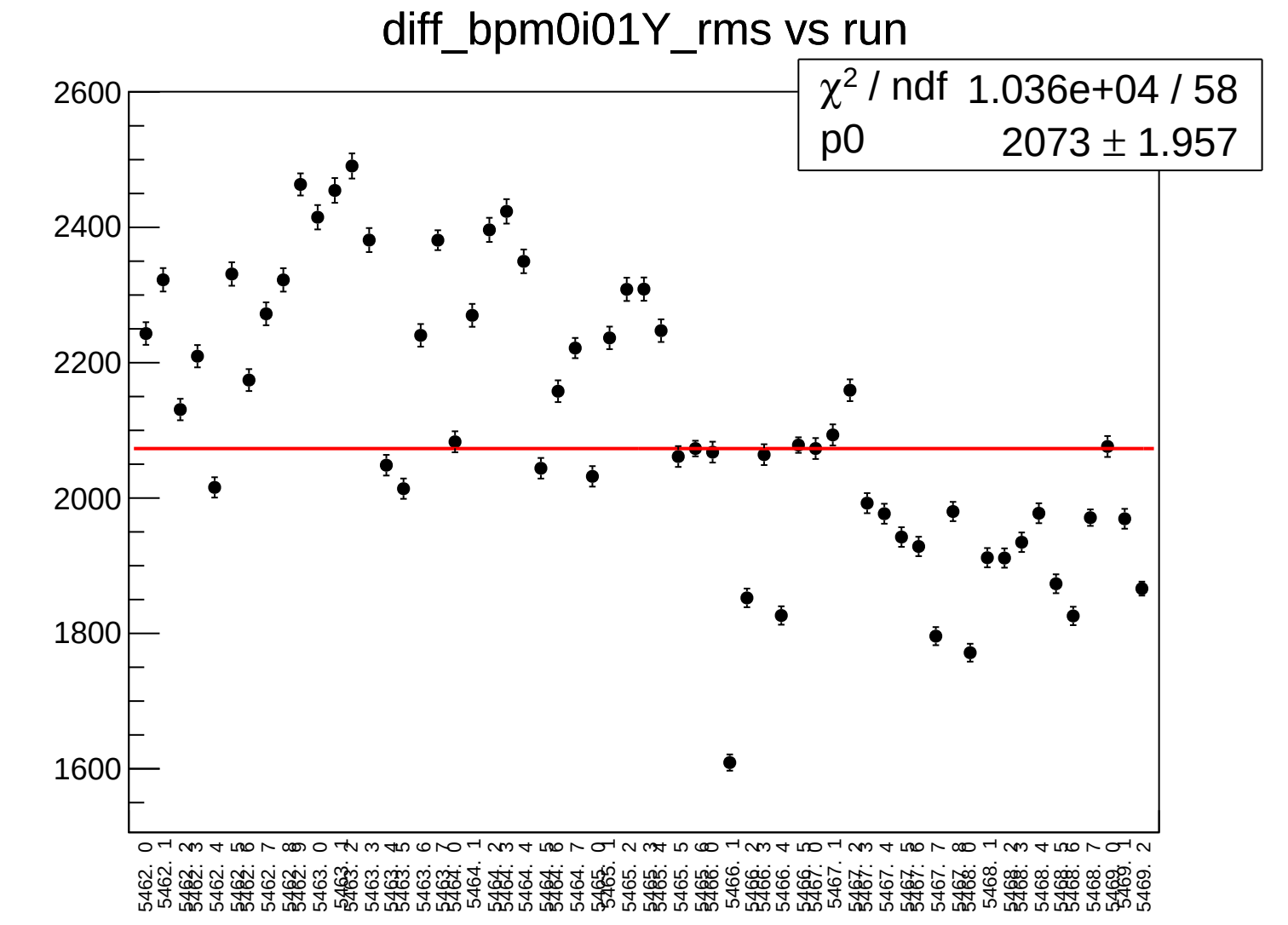

diff_bpm0i01X_mean vs run
χ² / ndf 58.06 / 58
p0 42.77 ± 2.761
pull
Entries 59
Mean 144.1
Std Dev 147.8

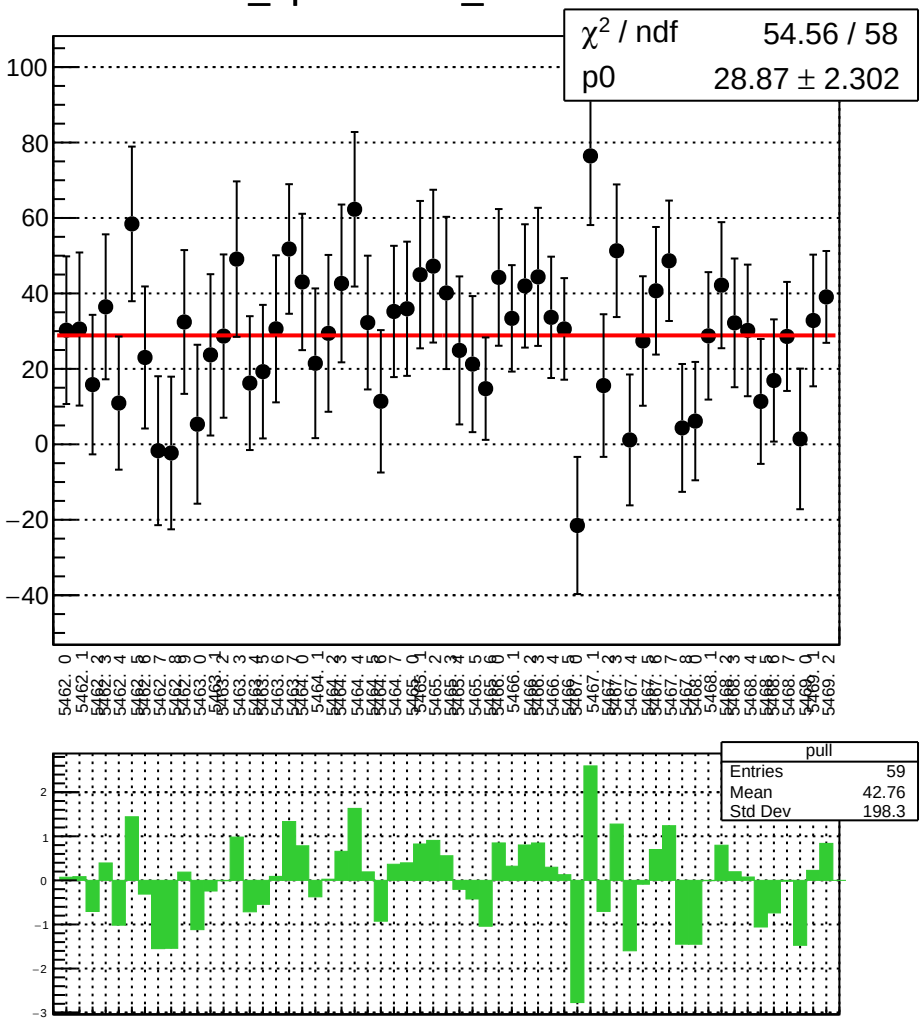

pull1D
Entries 59
Mean 0.005921
Std Dev 0.992

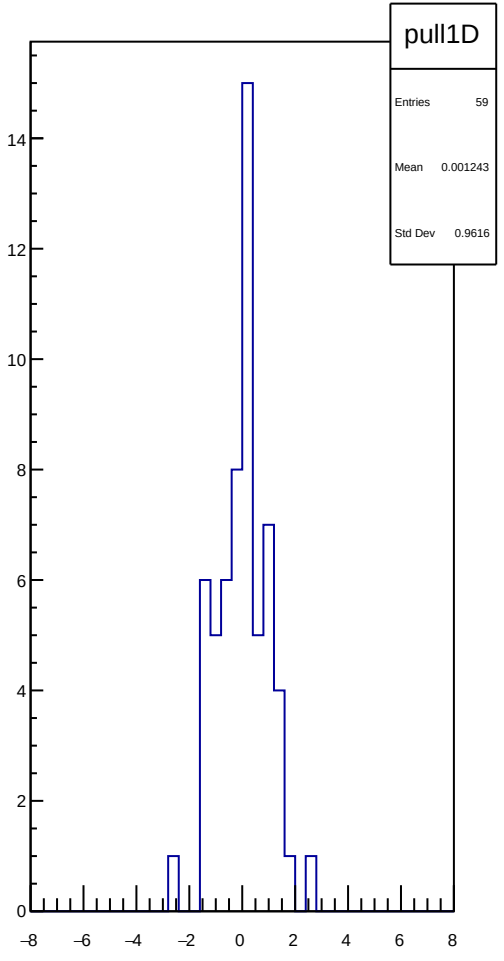

diff_bpm0i01X_rms vs run
χ² / ndf 1.054e+04 / 58
p0 2068 ± 1.952
2400
2200
2000
1800
1600

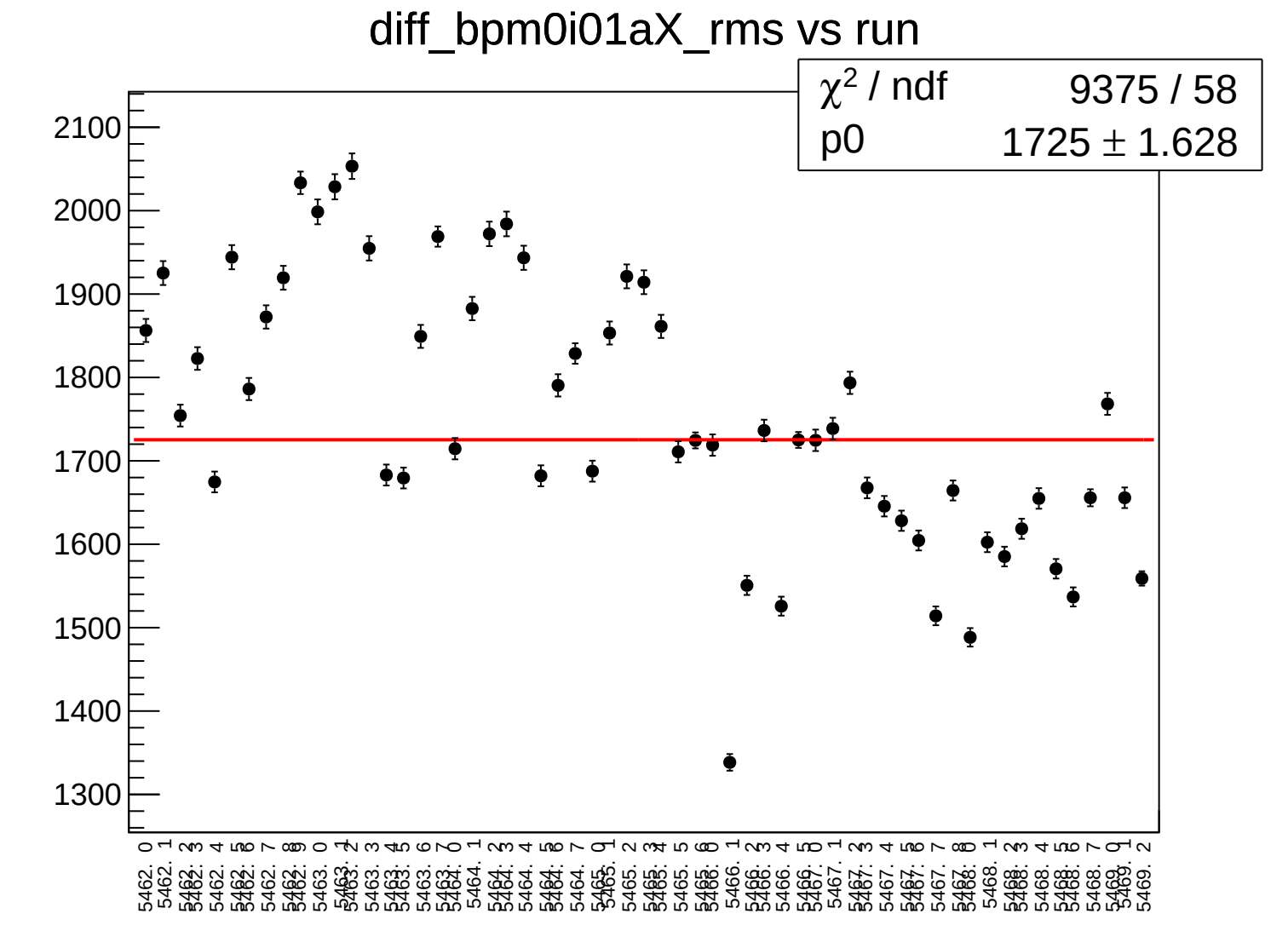

diff_bpm0i01Y_mean vs run
χ^2 / ndf 69.64 / 58
p0 13.76 ± 2.768
pull
Entries 59
Mean −158.6
Std Dev 183.1

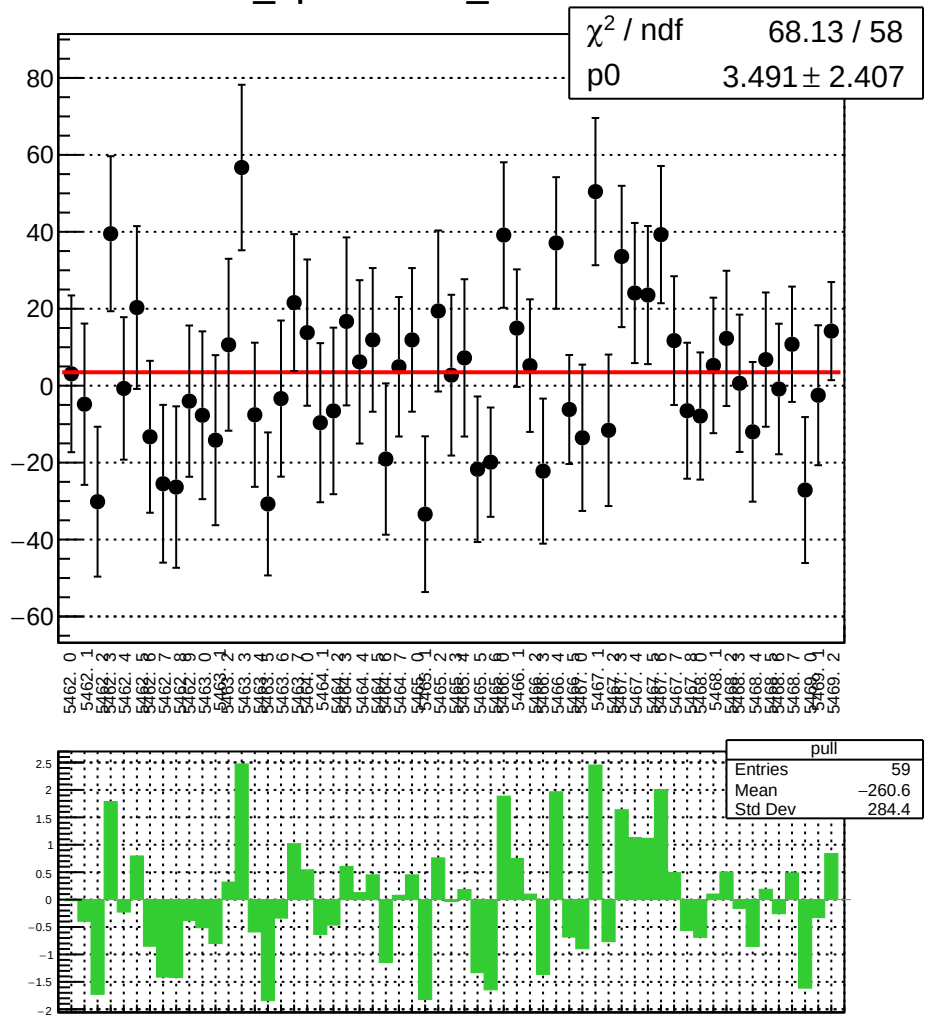

pull1D
Entries 59
Mean −0.01569
Std Dev 1.086

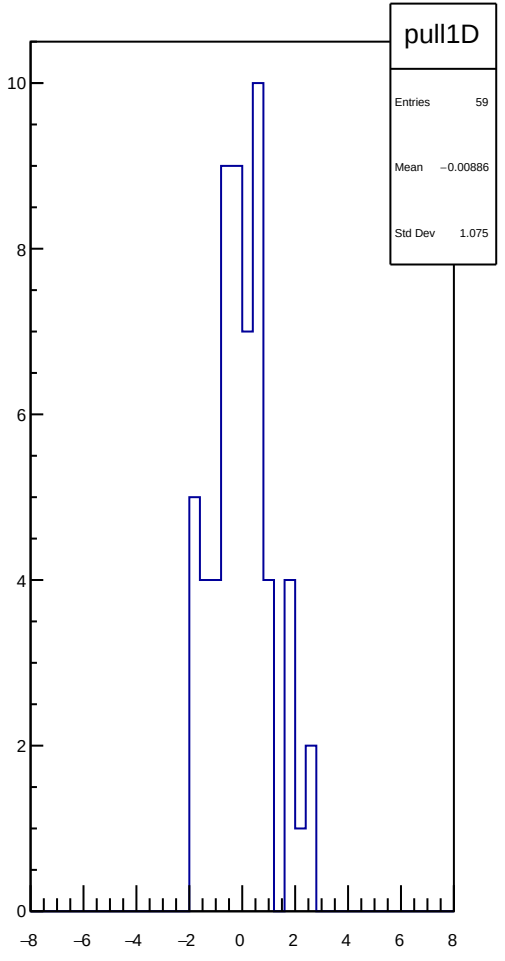

diff_bpm0i01Y_rms vs run
χ² / ndf 1.036e+04 / 58
p0 2073 ± 1.957
2600
2400
2200
2000
1800
1600

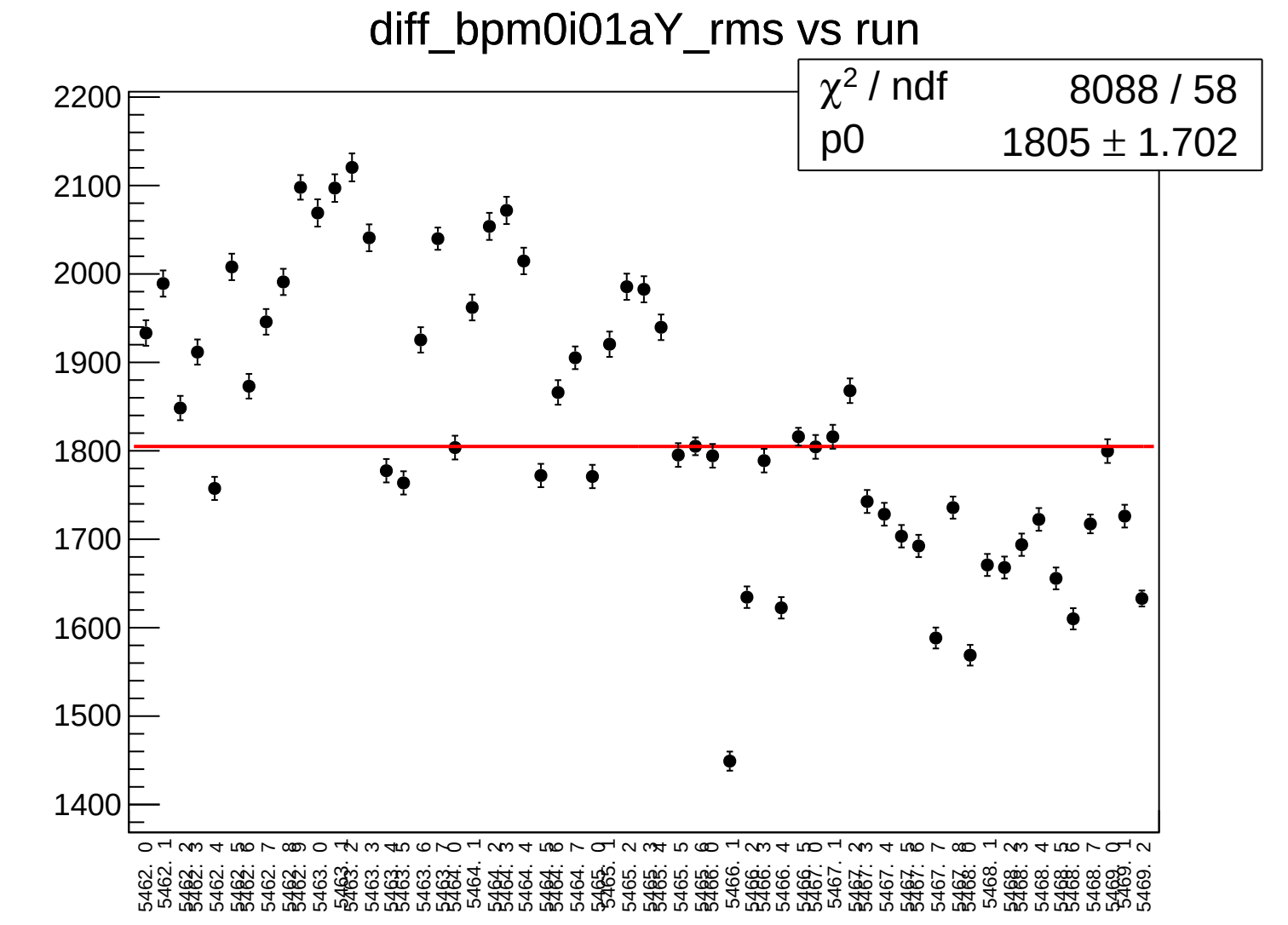

diff_bpm0i01aX_mean vs run
χ^2 / ndf 54.56 / 58
p0 28.87 ± 2.302
pull
Entries 59
Mean 42.76
Std Dev 198.3

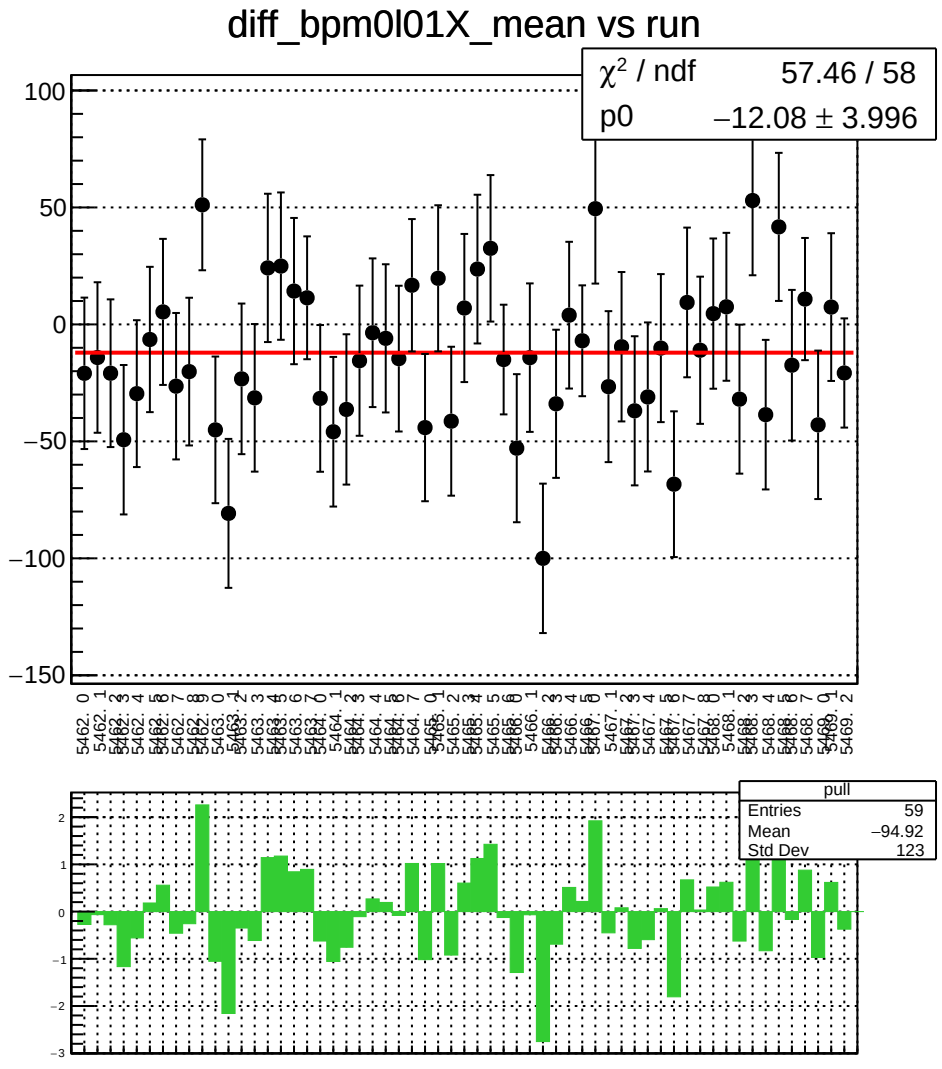

pull1D
Entries 59
Mean 0.001243
Std Dev 0.9616

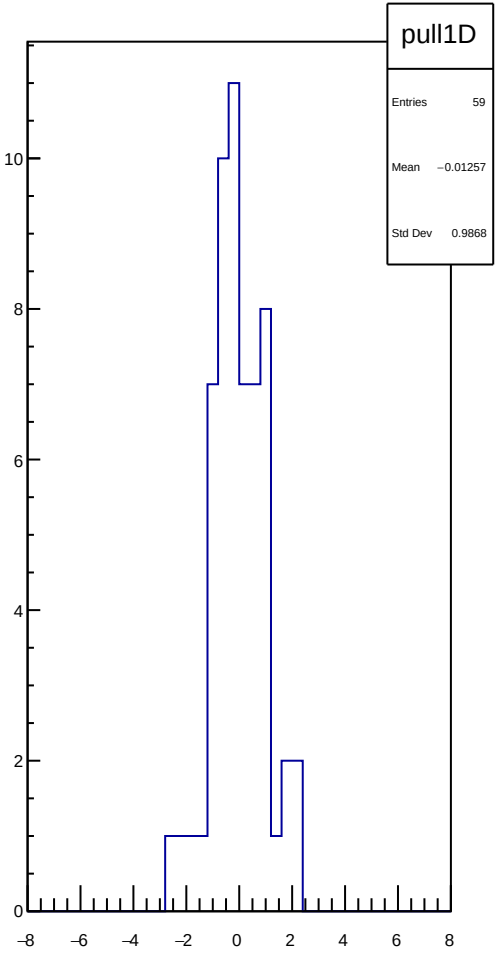

diff_bpm0i01aX_rms vs run
χ² / ndf 9375 / 58
p0 1725 ± 1.628
2100
2000
1900
1800
1700
1600
1500
1400
1300

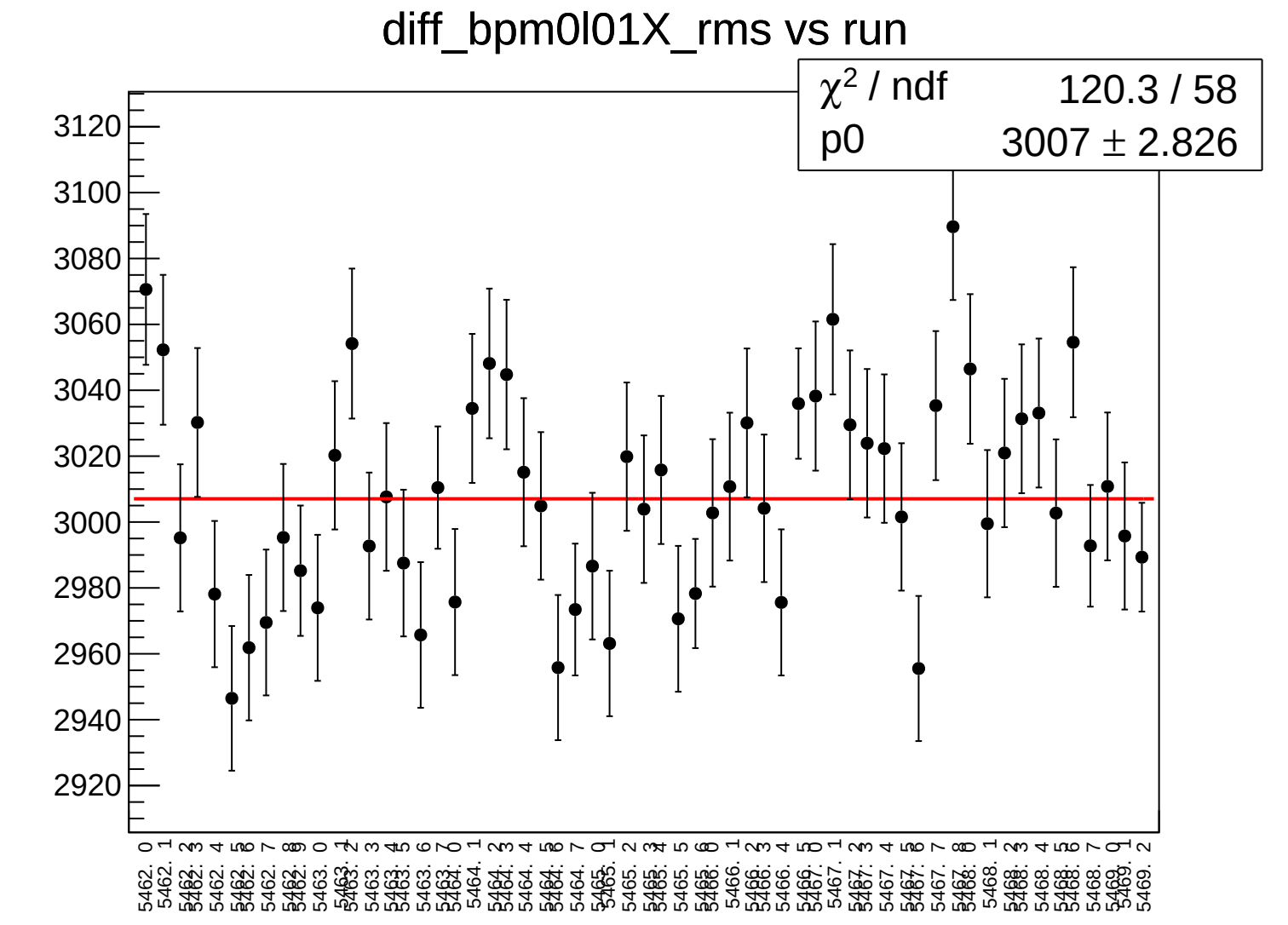

diff_bpm0i01aY_mean vs run
χ^2 / ndf 68.13 / 58
p0 3.491 ± 2.407
pull
Entries 59
Mean −260.6
Std Dev 284.4

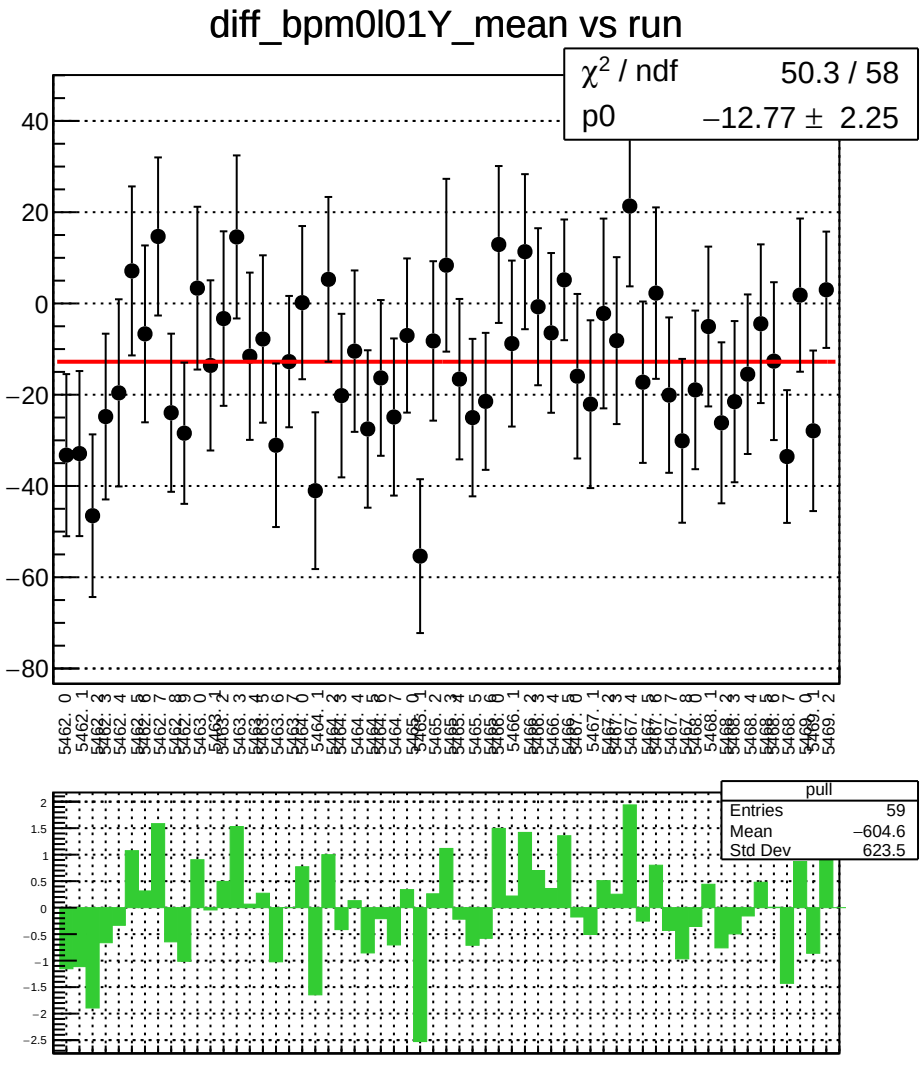

pull1D
Entries 59
Mean −0.00886
Std Dev 1.075

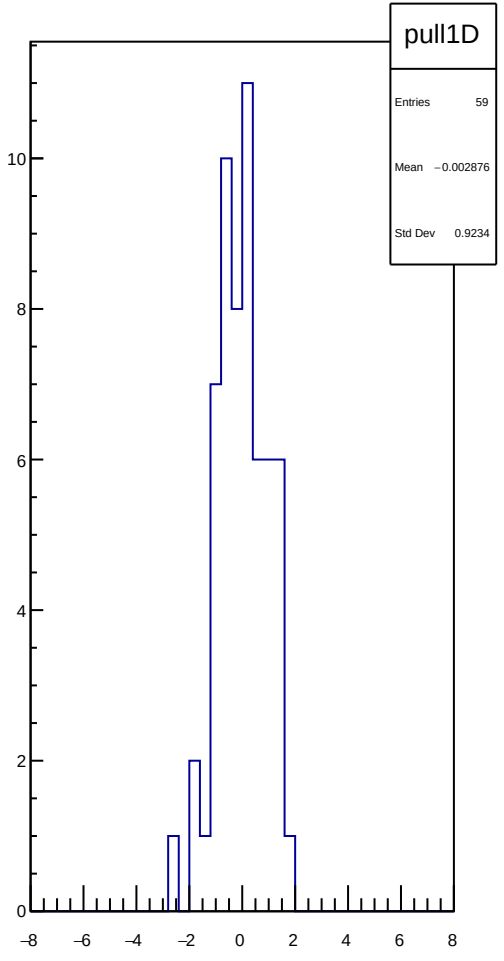

diff_bpm0i01aY_rms vs run
χ² / ndf 8088 / 58
p0 1805 ± 1.702
2200
2100
2000
1900
1800
1700
1600
1500
1400

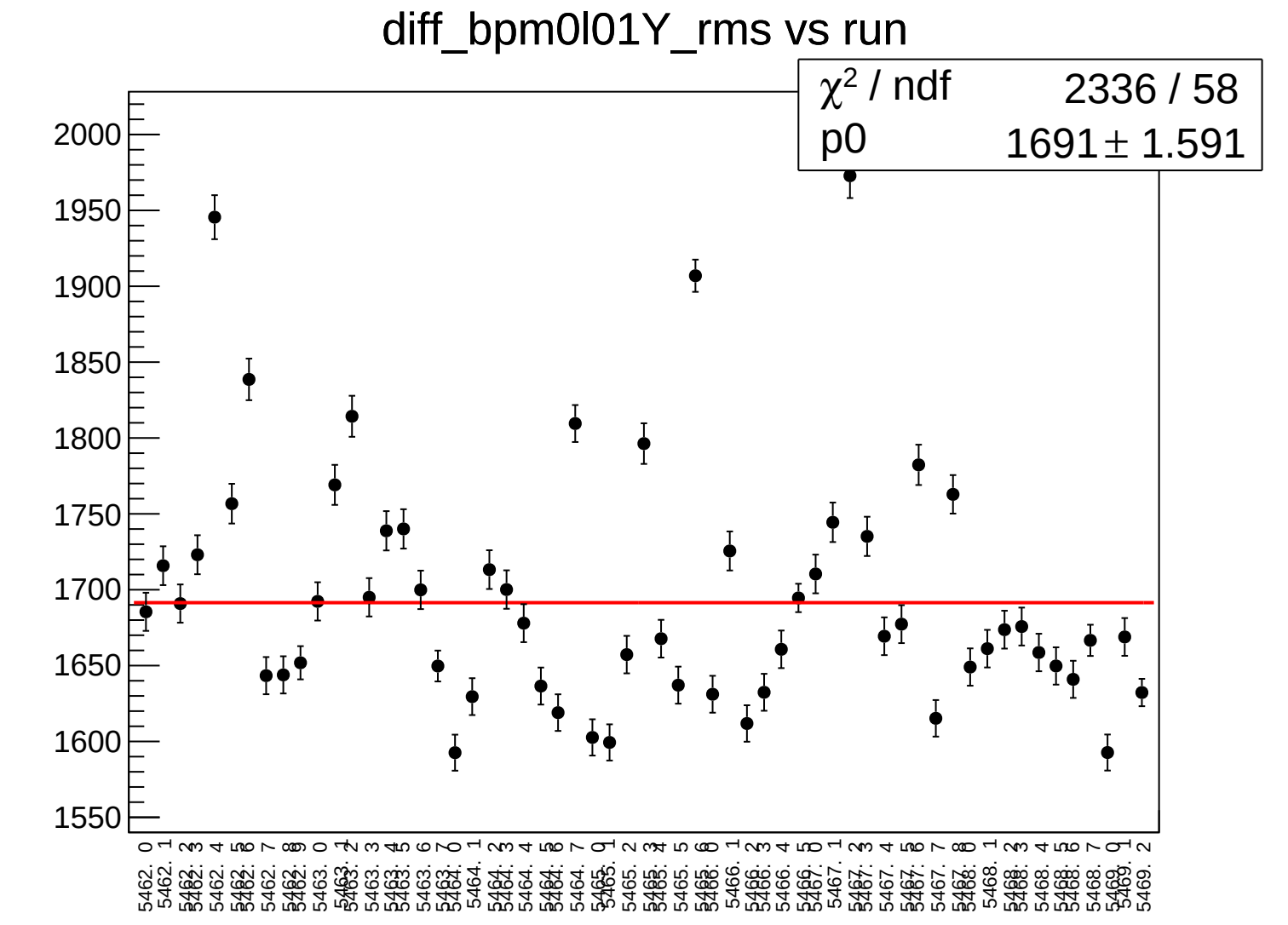

diff_bpm0l01X_mean vs run
χ² / ndf 57.46 / 58
p0 −12.08 ± 3.996
pull
Entries 59
Mean −94.92
Std Dev 123

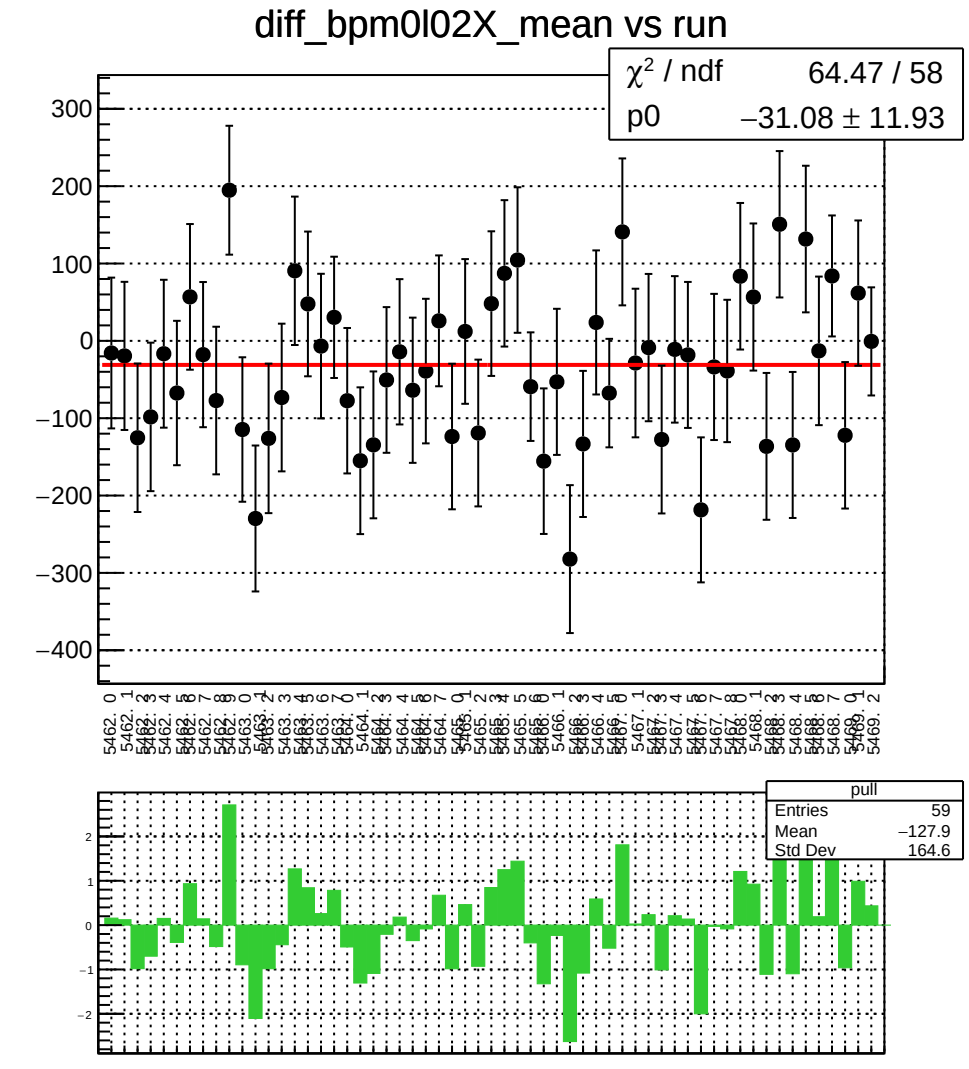

pull1D
Entries 59
Mean −0.01257
Std Dev 0.9868

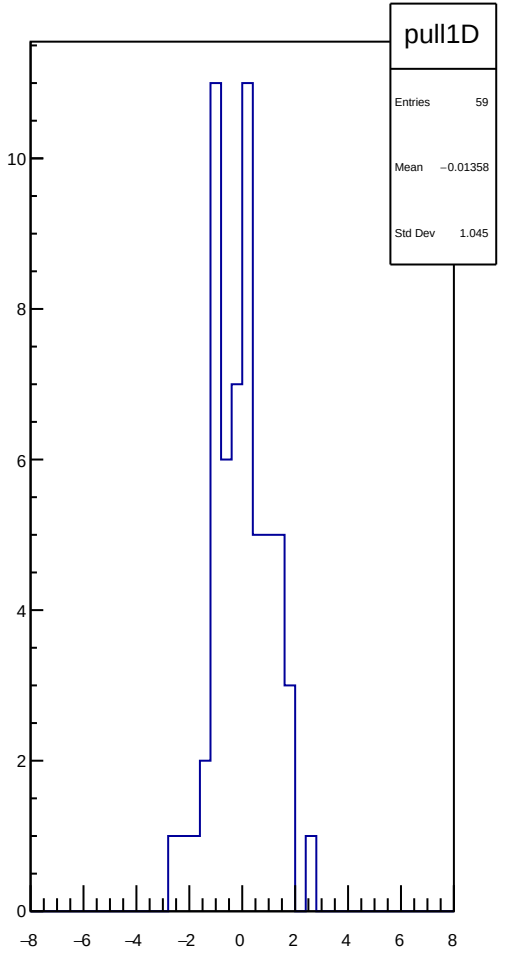

diff_bpm0l01X_rms vs run
χ² / ndf 120.3 / 58
p0 3007 ± 2.826
3120
3100
3080
3060
3040
3020
3000
2980
2960
2940
2920

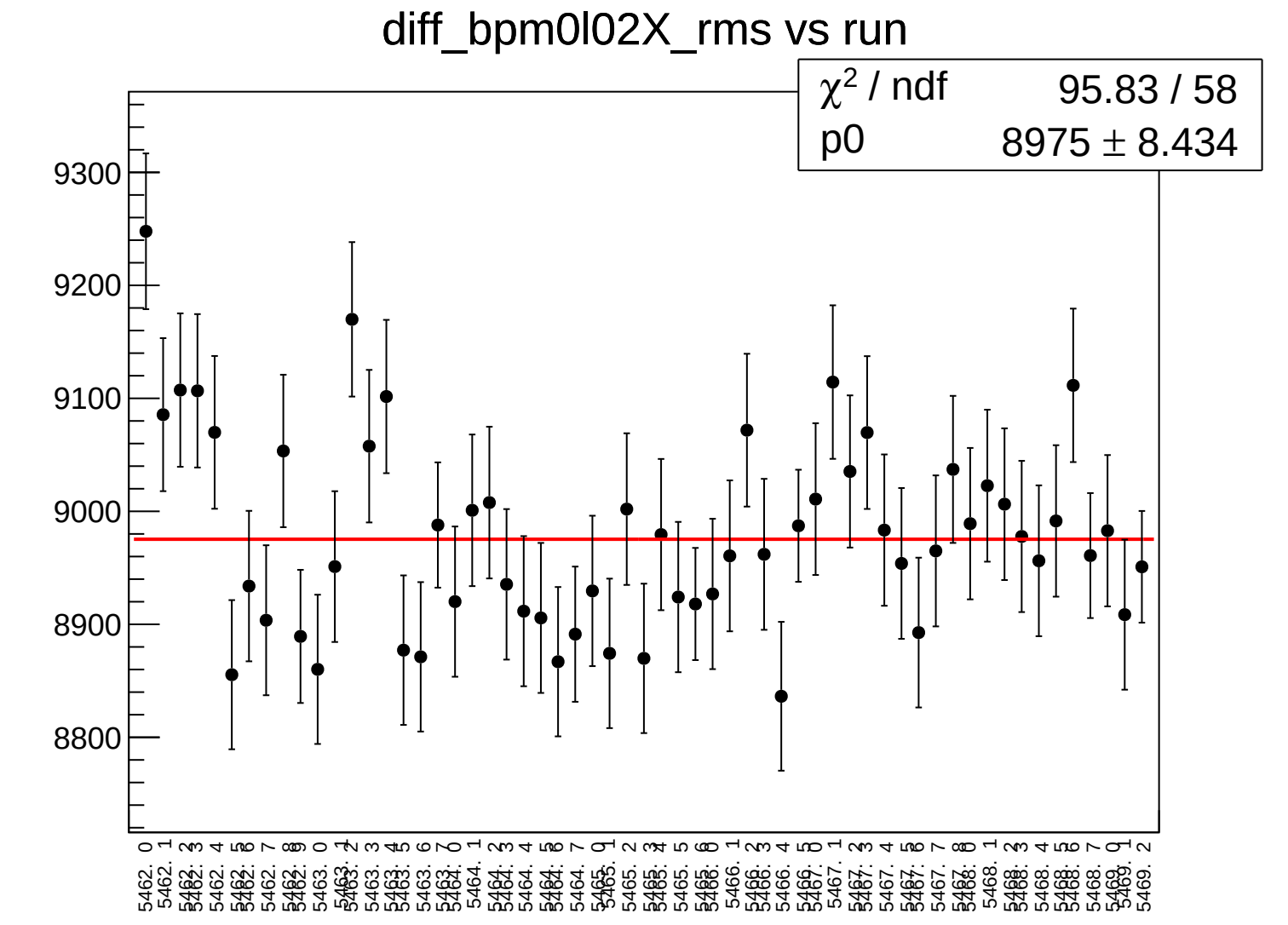

diff_bpm0l01Y_mean vs run
χ^2 / ndf 50.3 / 58
p0 −12.77 ± 2.25
pull
Entries 59
Mean −604.6
Std Dev 623.5

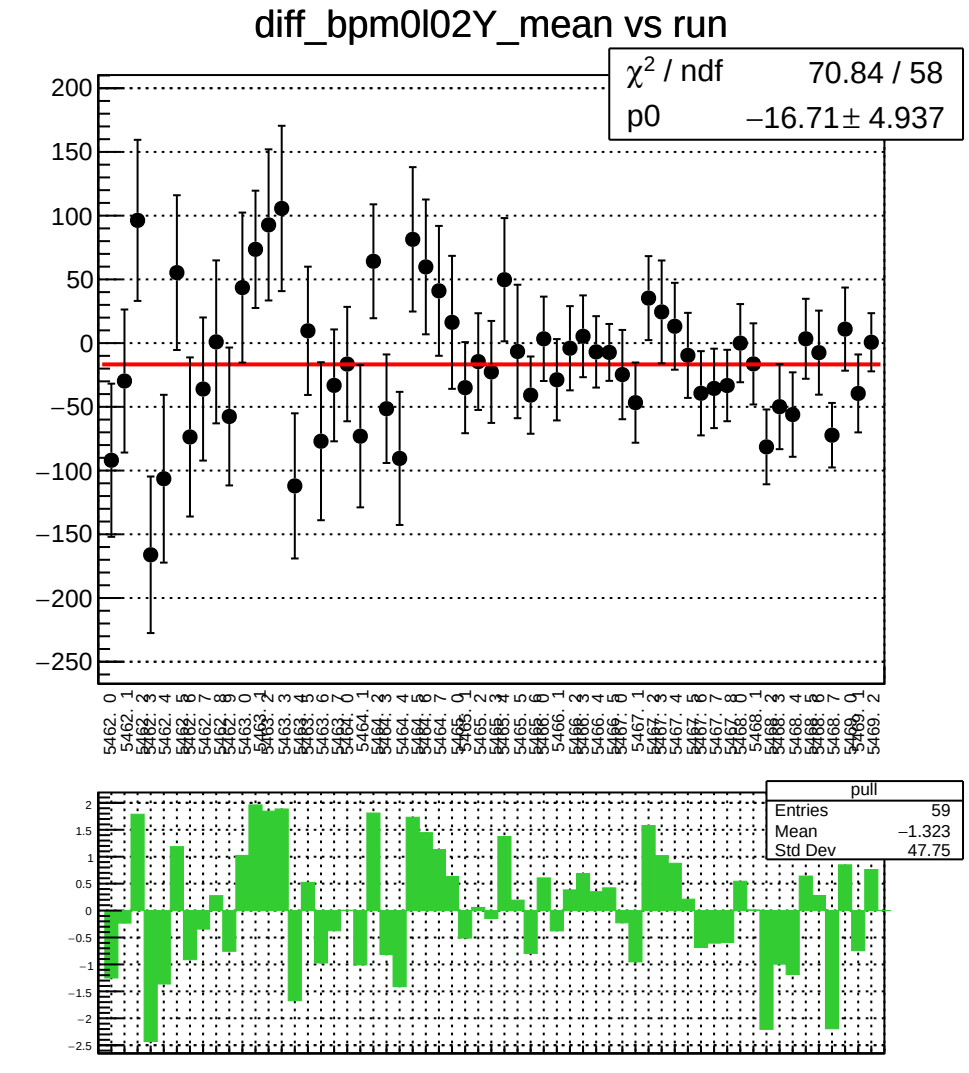

pull1D
Entries 59
Mean −0.002876
Std Dev 0.9234

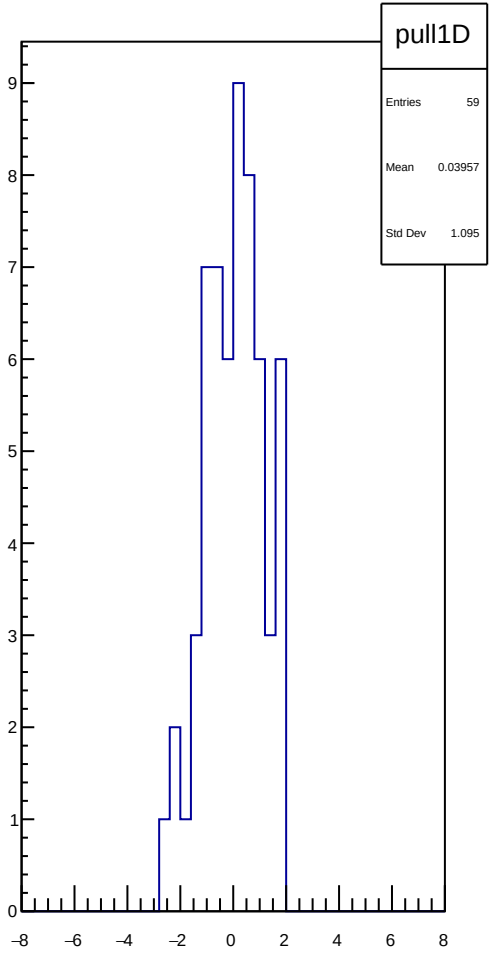

diff_bpm0l01Y_rms vs run
χ² / ndf 2336 / 58
p0 1691 ± 1.591
2000
1950
1900
1850
1800
1750
1700
1650
1600
1550

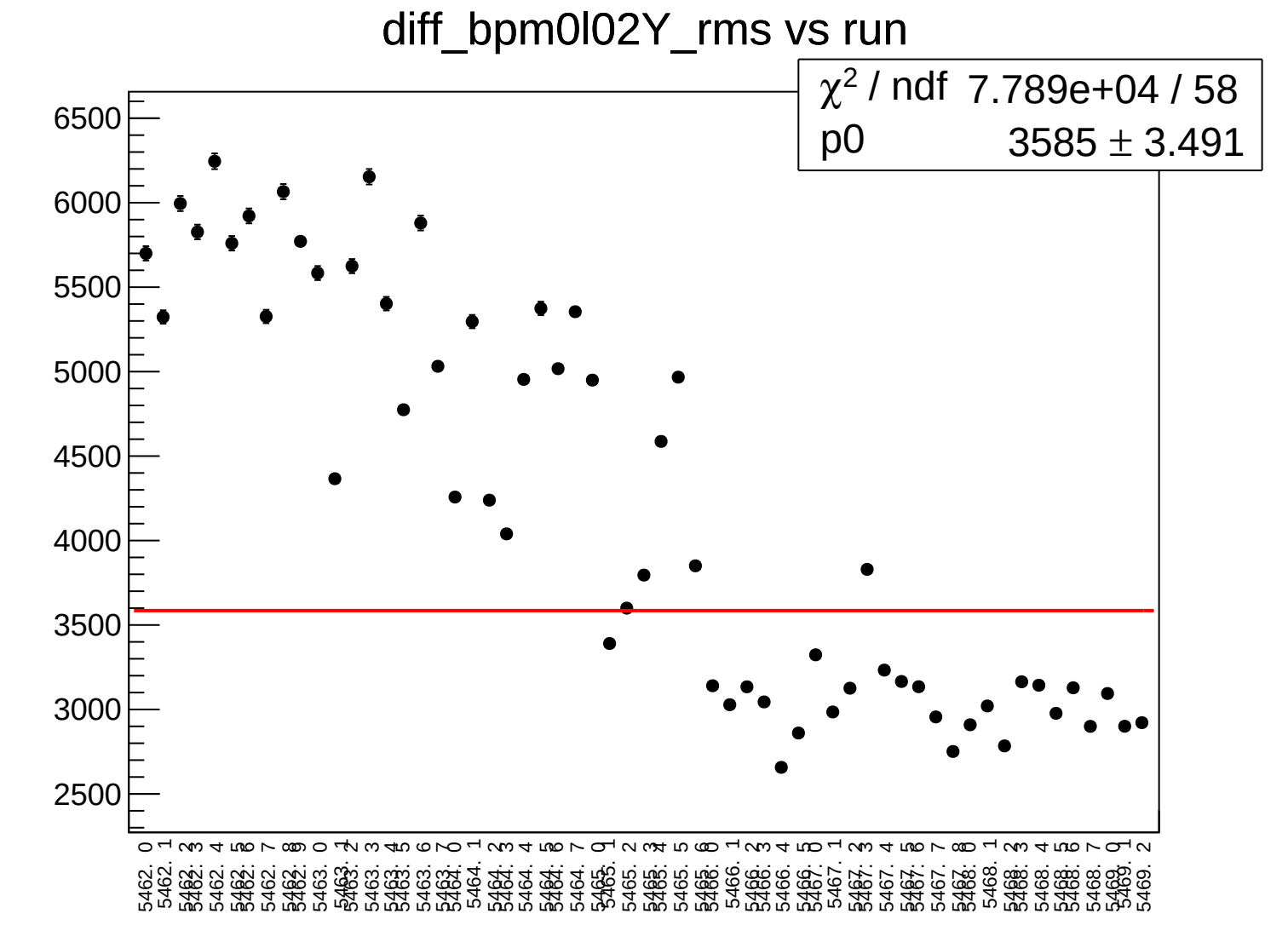

diff_bpm0l02X_mean vs run
χ² / ndf 64.47 / 58
p0 −31.08 ± 11.93
pull
Entries 59
Mean −127.9
Std Dev 164.6

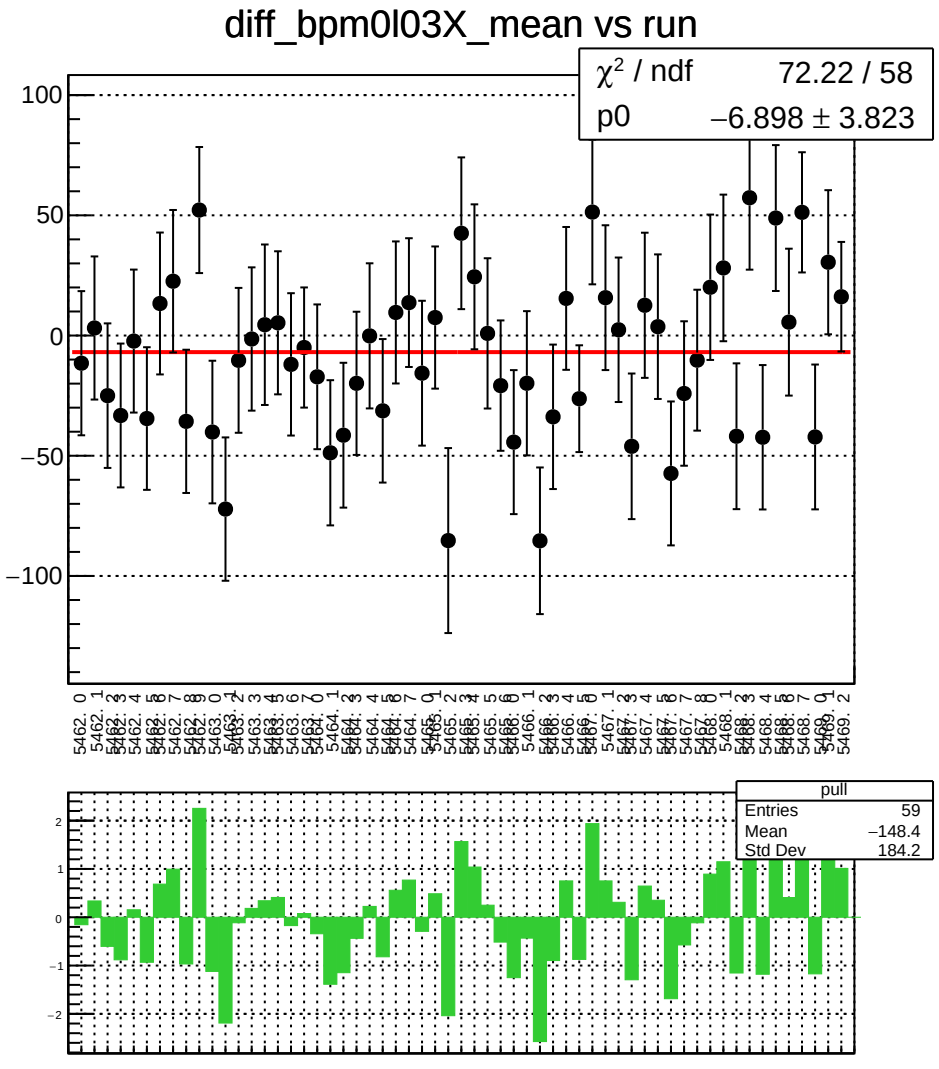

pull1D
Entries 59
Mean −0.01358
Std Dev 1.045

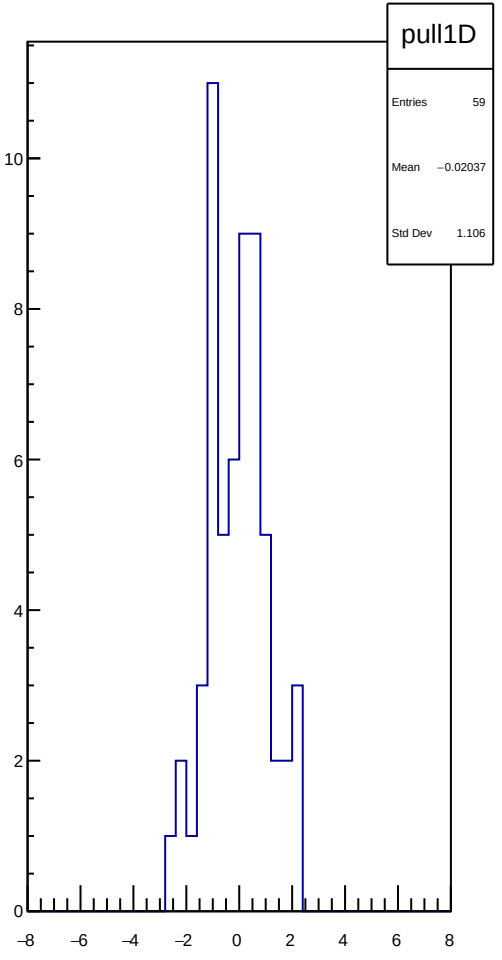

diff_bpm0l02X_rms vs run
χ² / ndf 95.83 / 58
p0 8975 ± 8.434
9300
9200
9100
9000
8900
8800
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

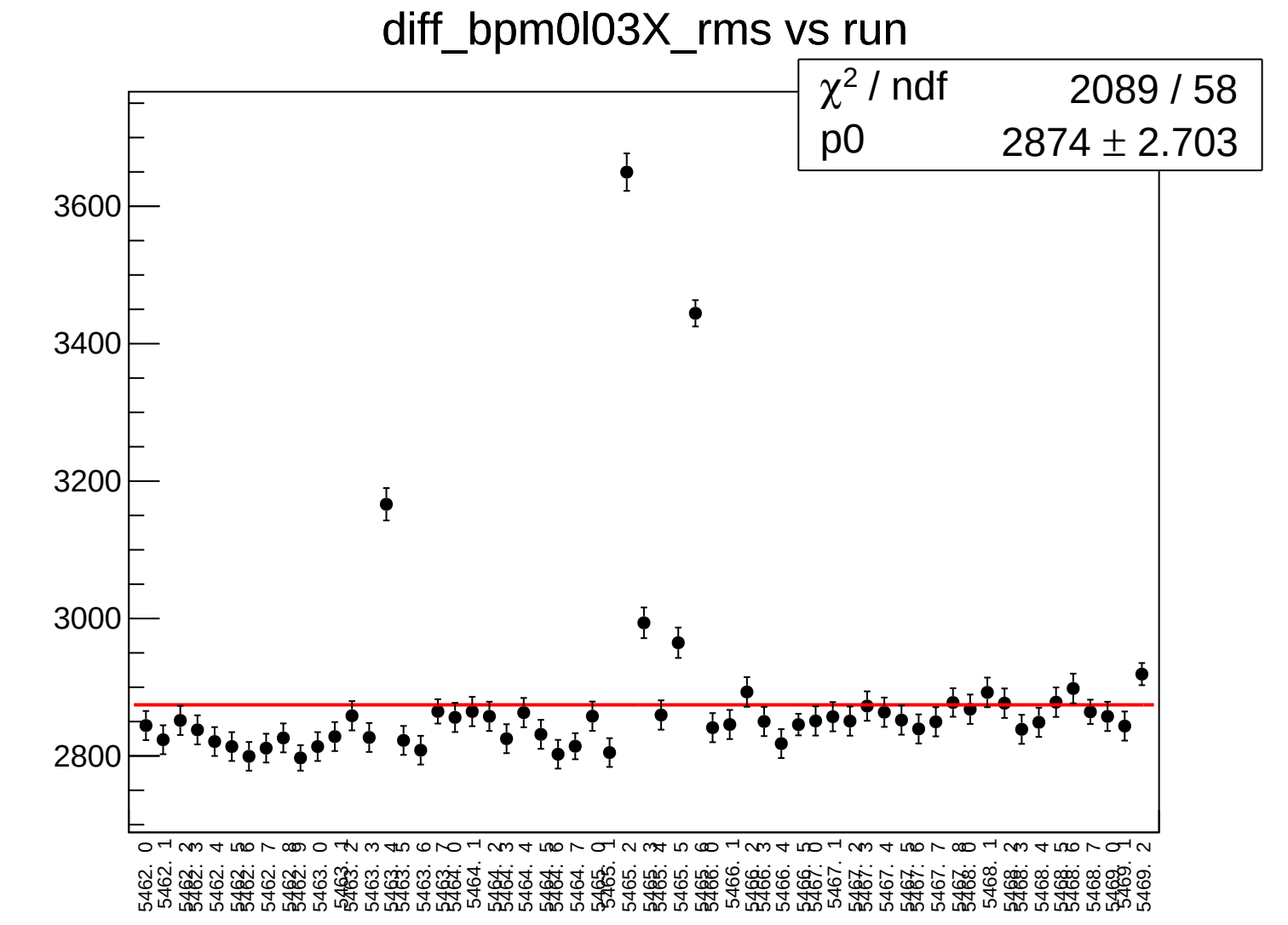

diff_bpm0l02Y_mean vs run
χ^2 / ndf 70.84 / 58
p0 −16.71± 4.937
pull
Entries 59
Mean −1.323
Std Dev 47.75

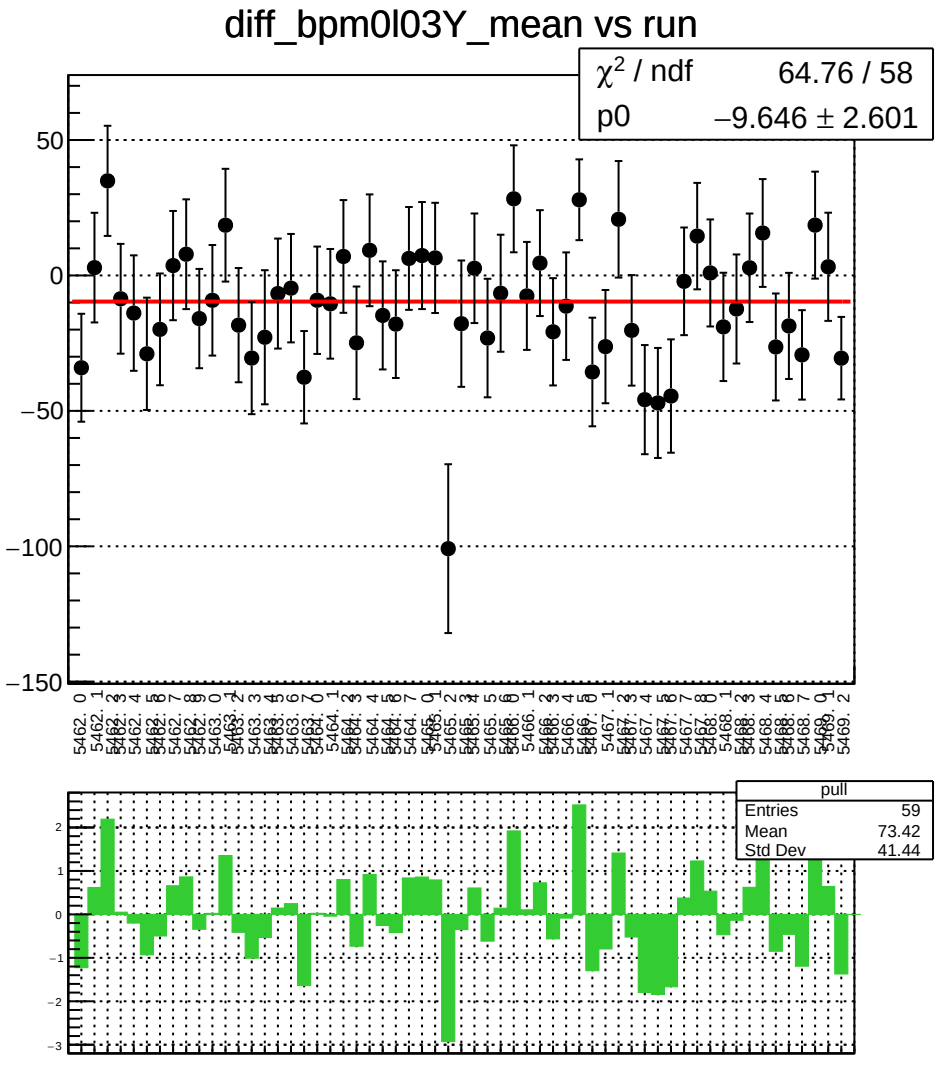

pull1D
Entries 59
Mean 0.03957
Std Dev 1.095

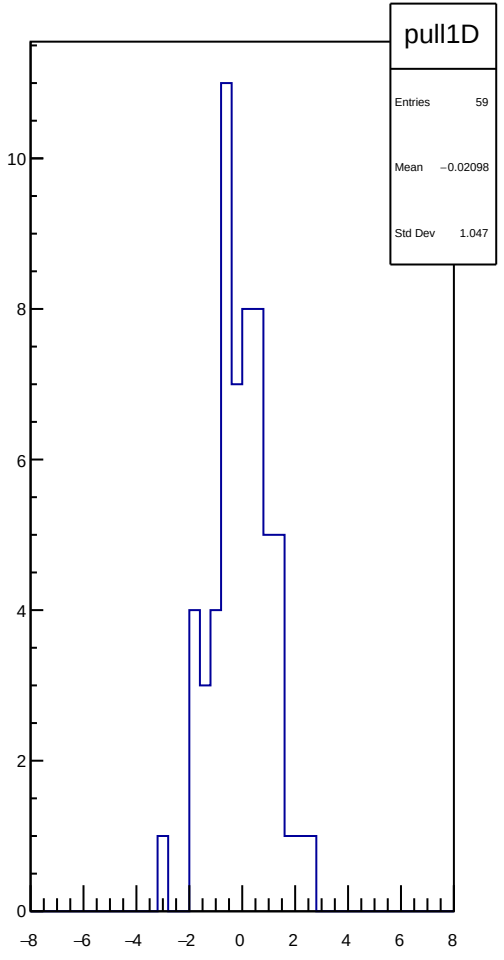

diff_bpm0l02Y_rms vs run
χ² / ndf 7.789e+04 / 58
p0 3585 ± 3.491
6500
6000
5500
5000
4500
4000
3500
3000
2500
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

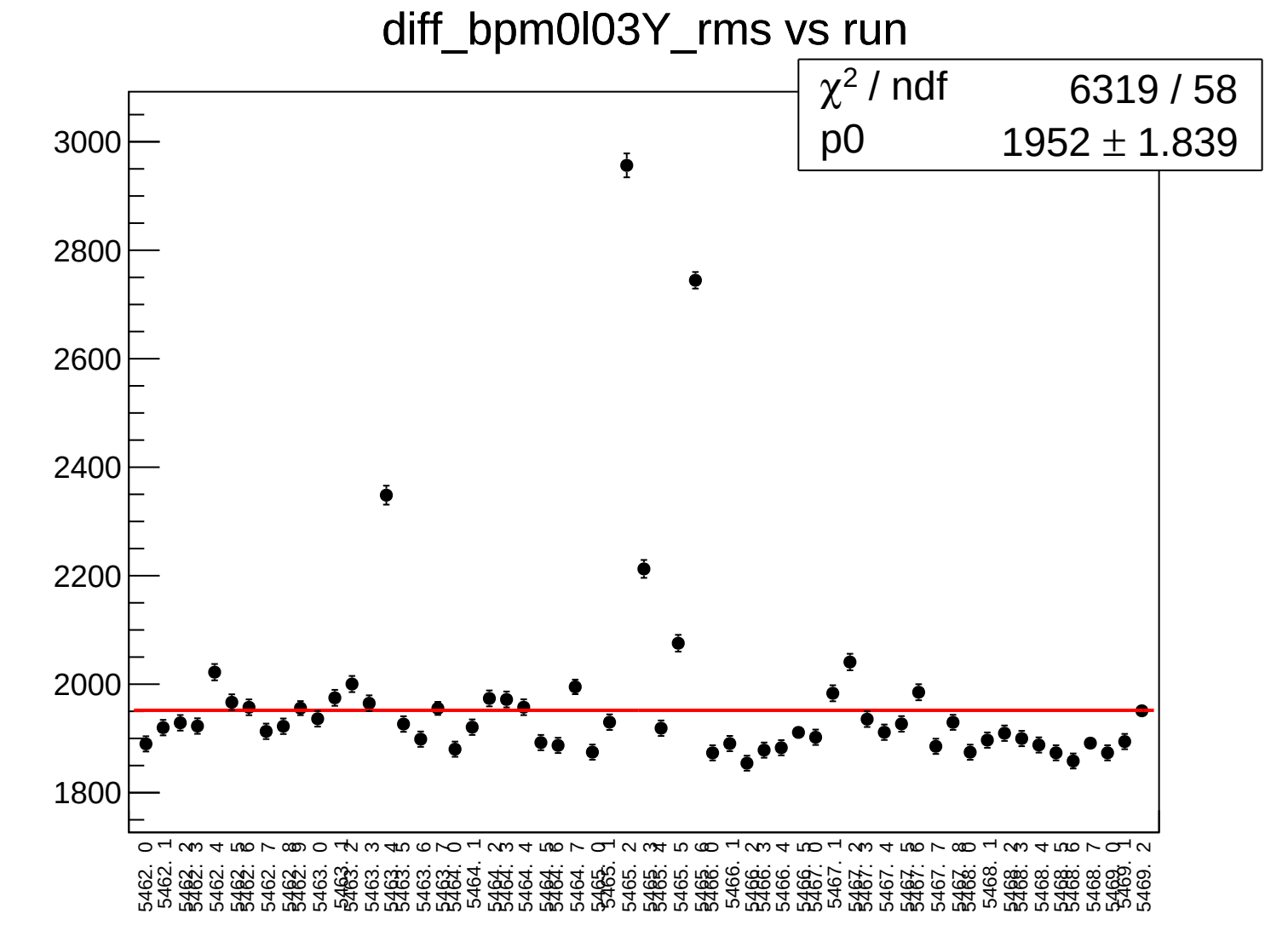

diff_bpm0l03X_mean vs run
χ² / ndf 72.22 / 58
p0 −6.898 ± 3.823
pull
Entries 59
Mean −148.4
Std Dev 184.2

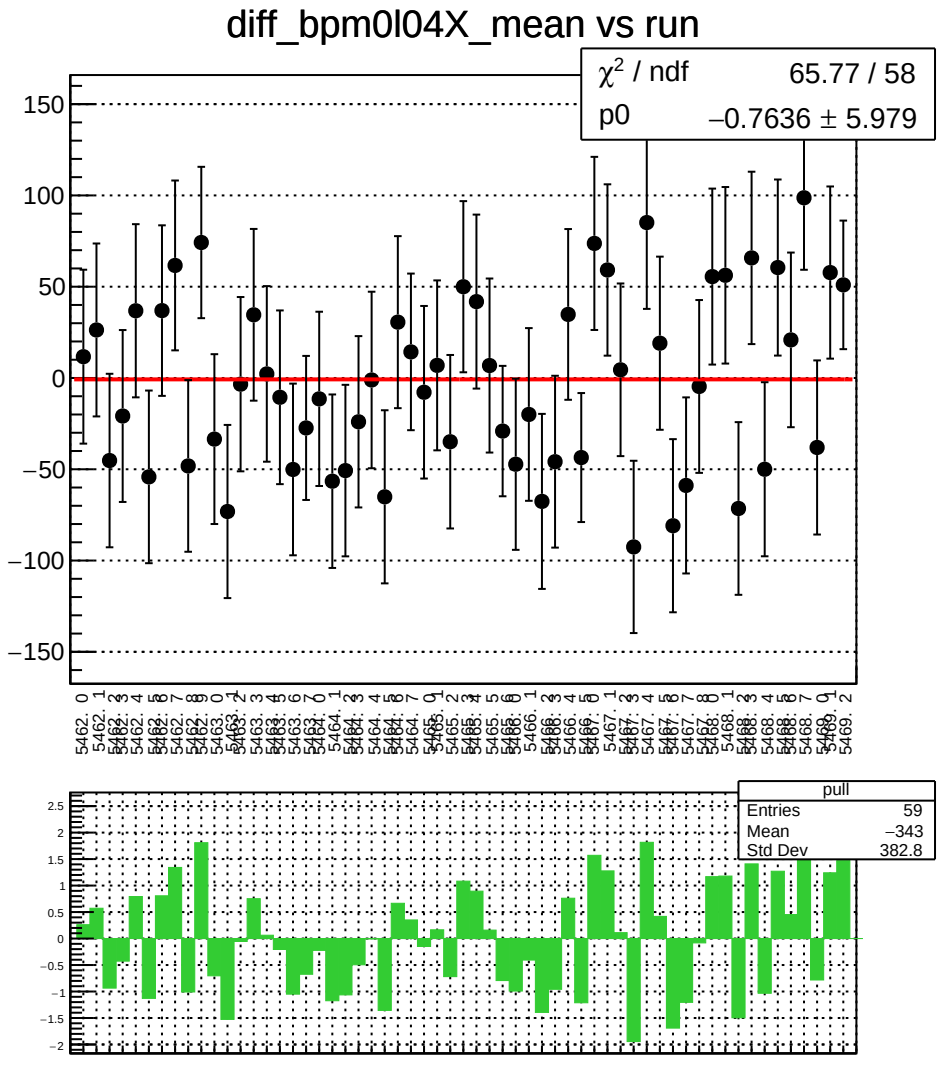

pull1D
Entries 59
Mean −0.02037
Std Dev 1.106

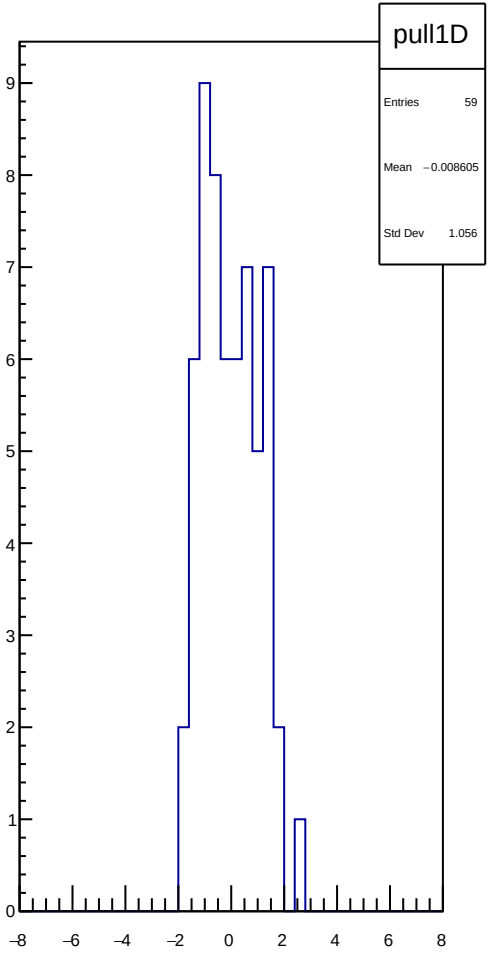

diff_bpm0l03X_rms vs run
χ² / ndf 2089 / 58
p0 2874 ± 2.703
3600
3400
3200
3000
2800

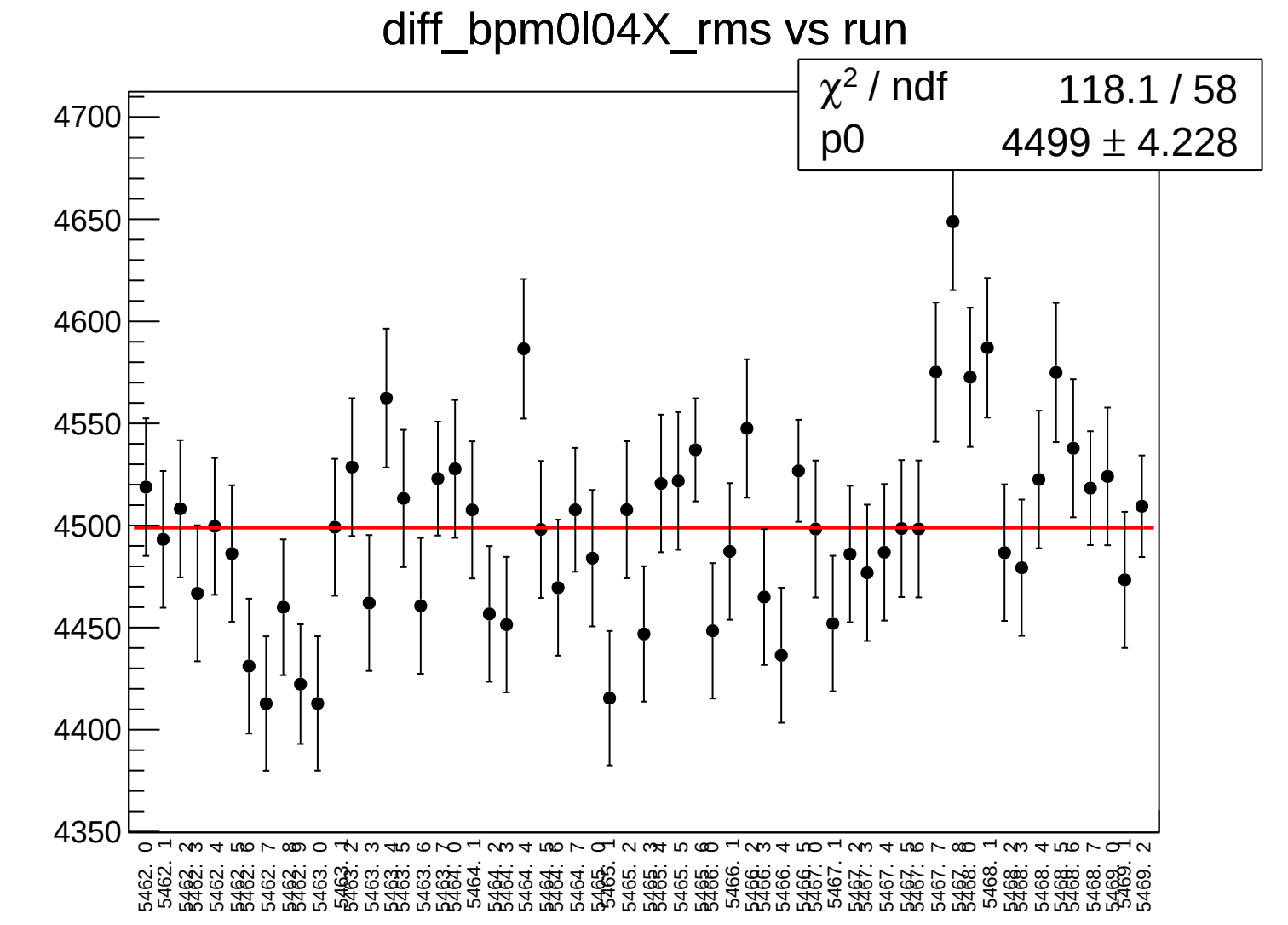

diff_bpm0l03Y_mean vs run
χ² / ndf 64.76 / 58
p0 −9.646 ± 2.601
pull
Entries 59
Mean 73.42
Std Dev 41.44

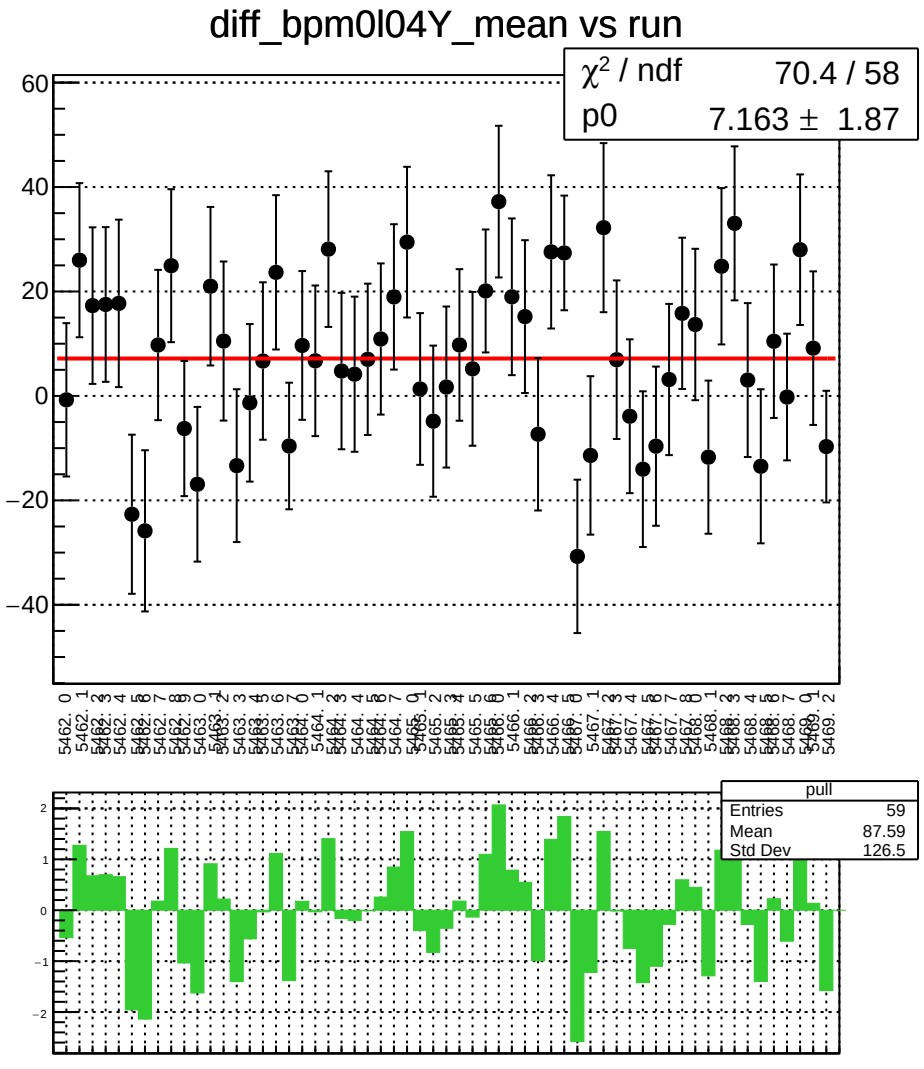

pull1D
Entries 59
Mean −0.02098
Std Dev 1.047

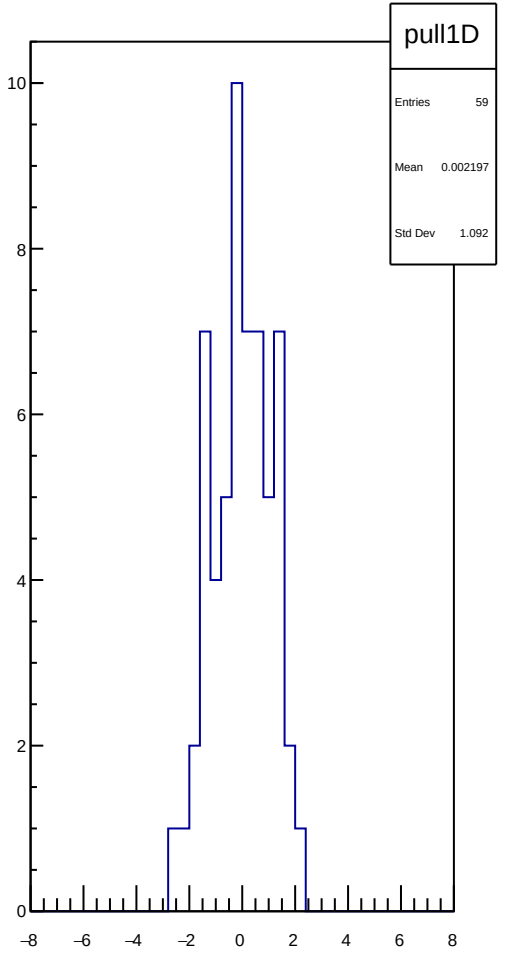

diff_bpm0l03Y_rms vs run
χ² / ndf 6319 / 58
p0 1952 ± 1.839
3000
2800
2600
2400
2200
2000
1800

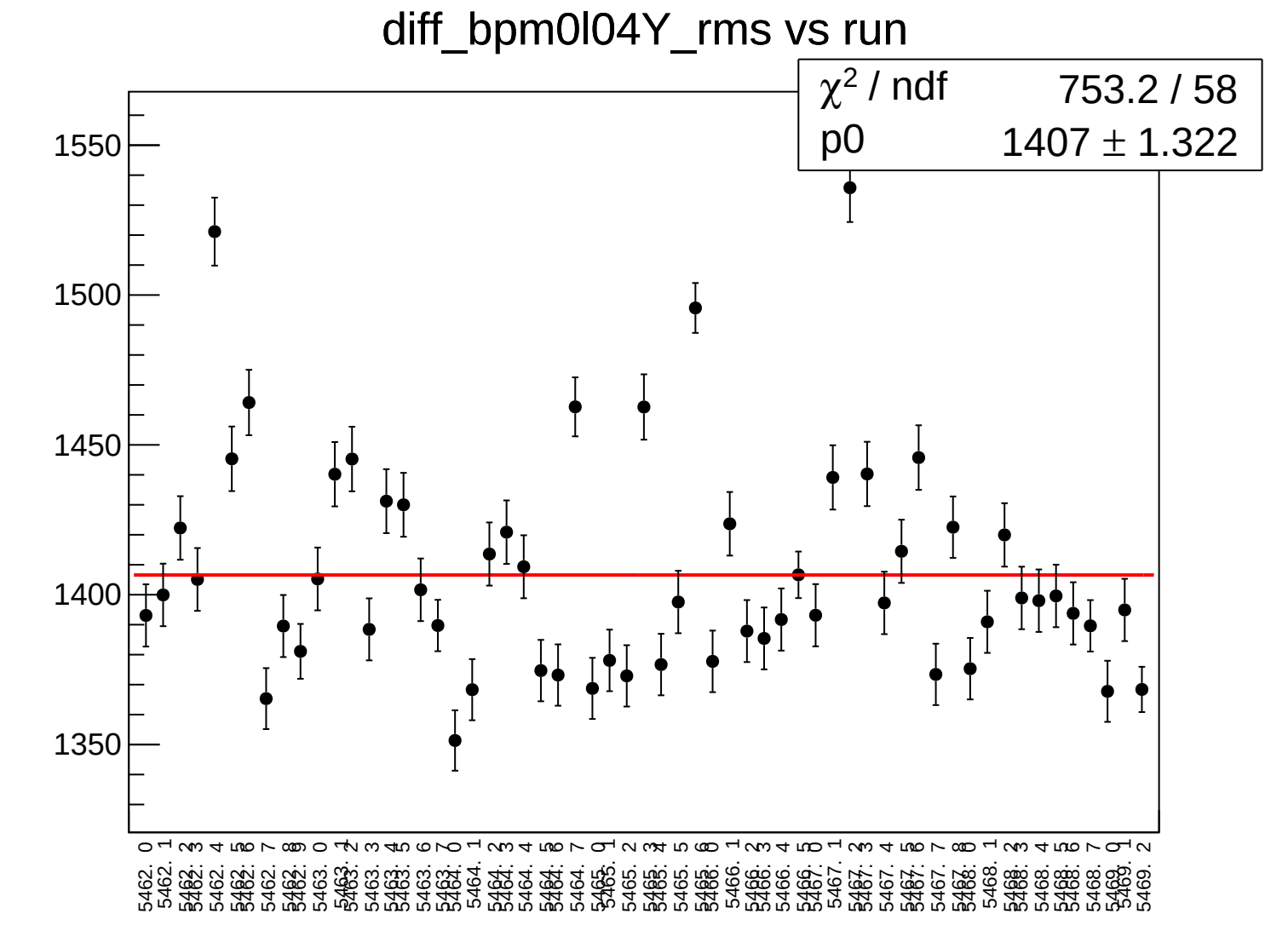

diff_bpm0l04X_mean vs run
χ² / ndf 65.77 / 58
p0 −0.7636 ± 5.979
150
100
50
0
−50
−100
−150
pull
Entries 59
Mean −343
Std Dev 382.8
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

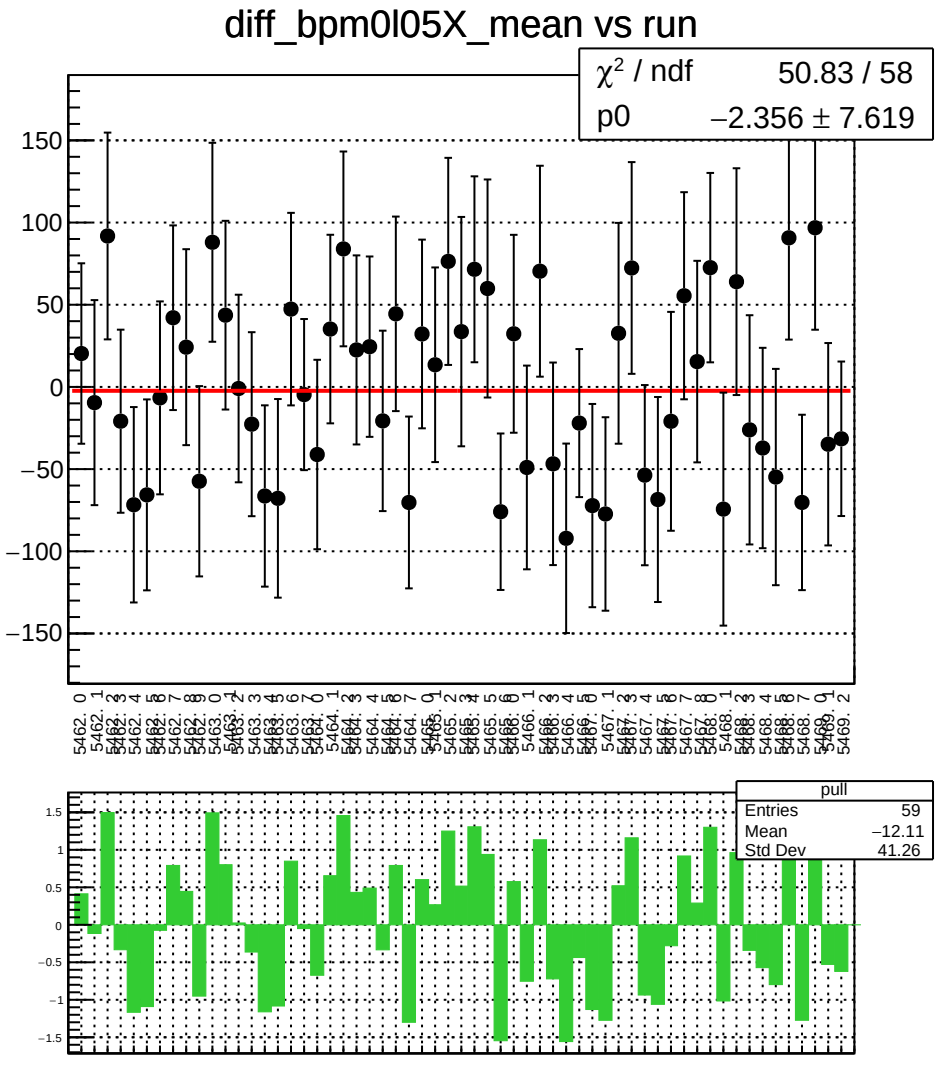

pull1D
Entries 59
Mean −0.008605
Std Dev 1.056
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

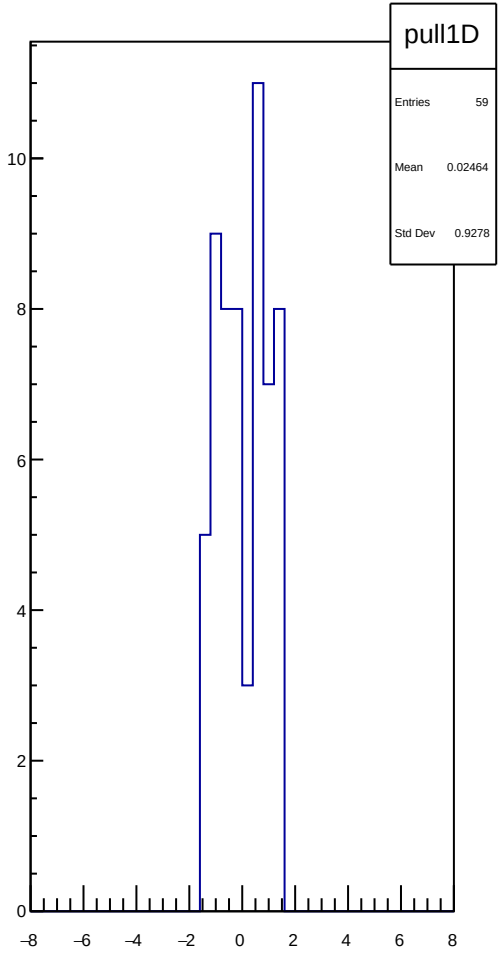

diff_bpm0l04X_rms vs run
χ² / ndf 118.1 / 58
p0 4499 ± 4.228
4700
4650
4600
4550
4500
4450
4400
4350

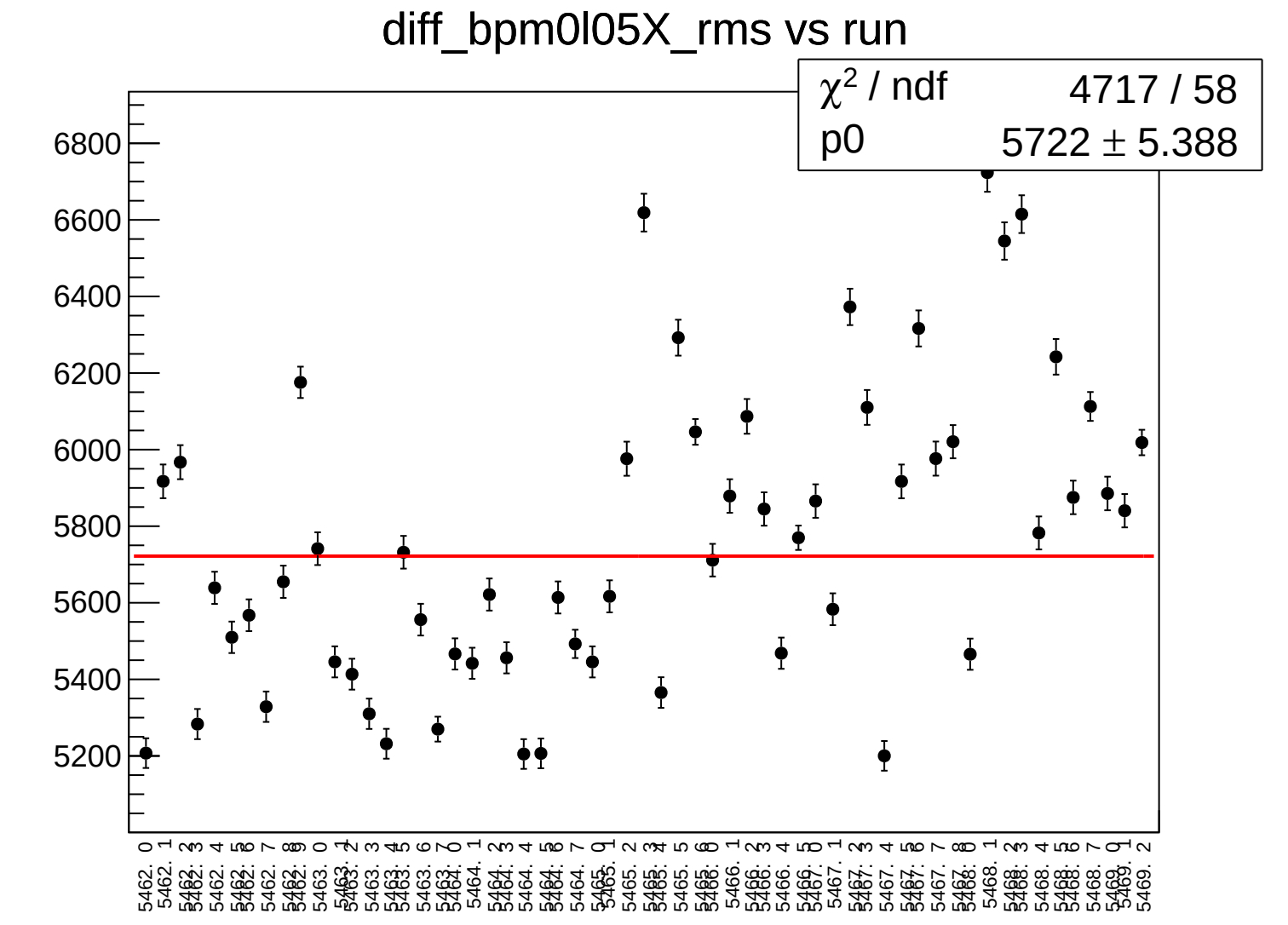

diff_bpm0l04Y_mean vs run
χ² / ndf 70.4 / 58
p0 7.163 ± 1.87
pull
Entries 59
Mean 87.59
Std Dev 126.5

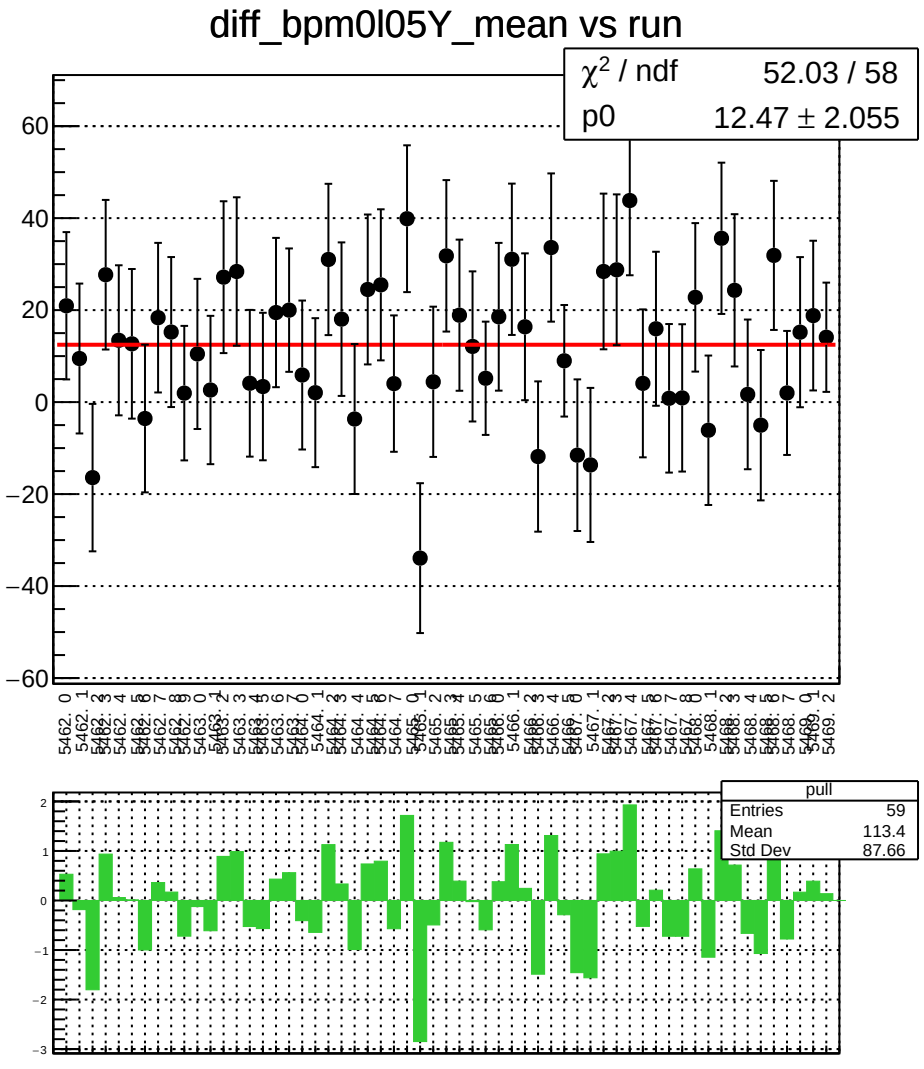

pull1D
Entries 59
Mean 0.002197
Std Dev 1.092

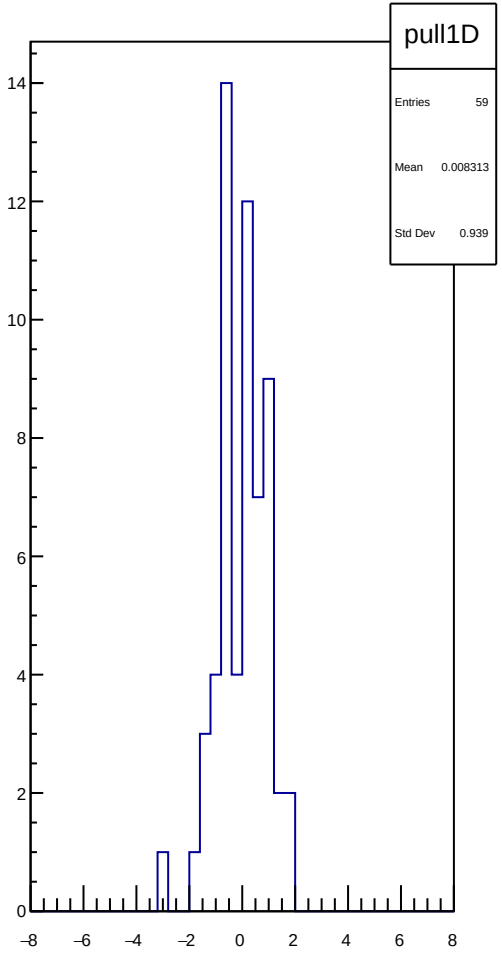

diff_bpm0l04Y_rms vs run
χ² / ndf 753.2 / 58
p0 1407 ± 1.322
1550
1500
1450
1400
1350

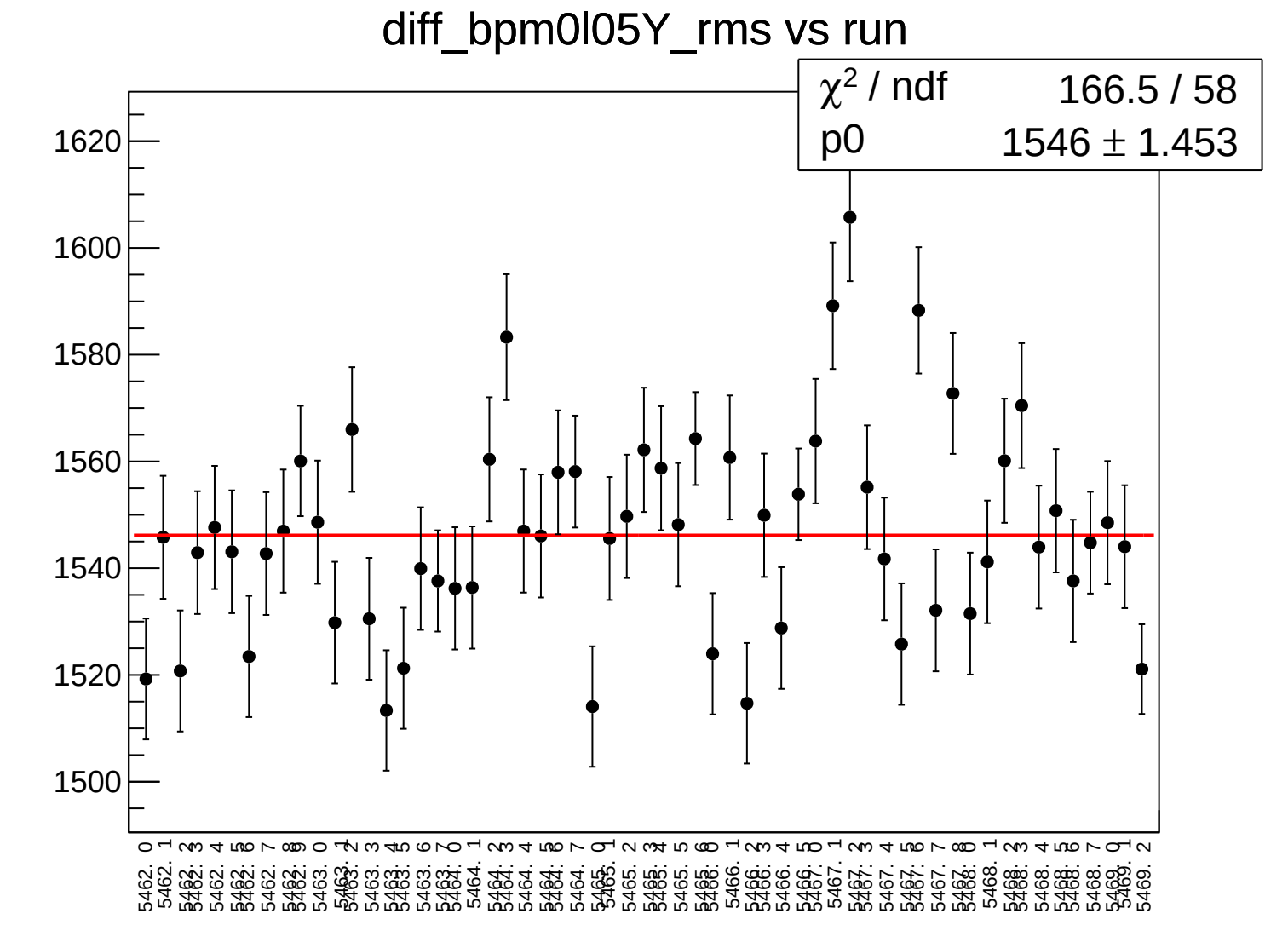

diff_bpm0l05X_mean vs run
χ² / ndf 50.83 / 58
p0 −2.356 ± 7.619
150
100
50
0
−50
−100
−150
pull
Entries 59
Mean −12.11
Std Dev 41.26
1.5
1
0.5
0
−0.5
−1
−1.5

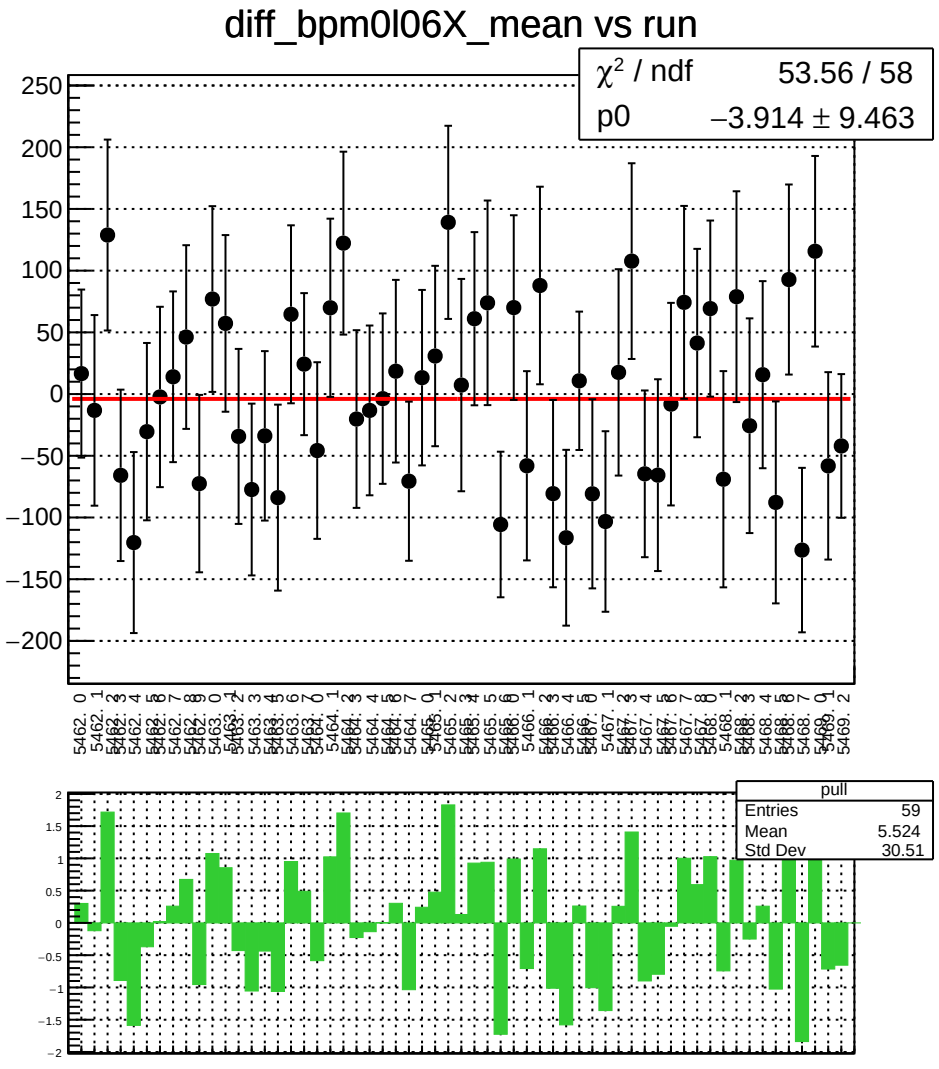

pull1D
Entries 59
Mean 0.02464
Std Dev 0.9278
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

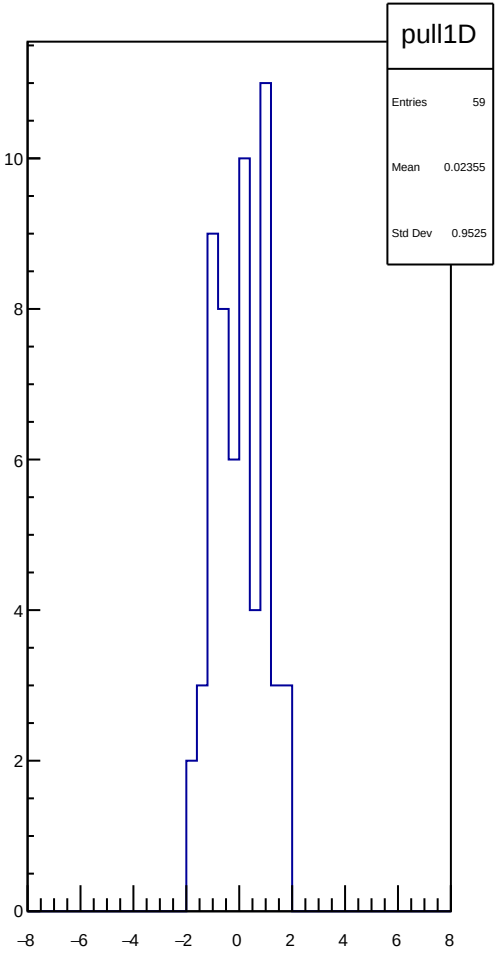

diff_bpm0l05X_rms vs run
χ² / ndf 4717 / 58
p0 5722 ± 5.388
6800
6600
6400
6200
6000
5800
5600
5400
5200
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5463. 8
5463. 9
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5464. 8
5464. 9
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5465. 7
5465. 8
5465. 9
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5466. 7
5466. 8
5466. 9
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5467. 9
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5468. 8
5468. 9
5469. 0
5469. 1
5469. 2

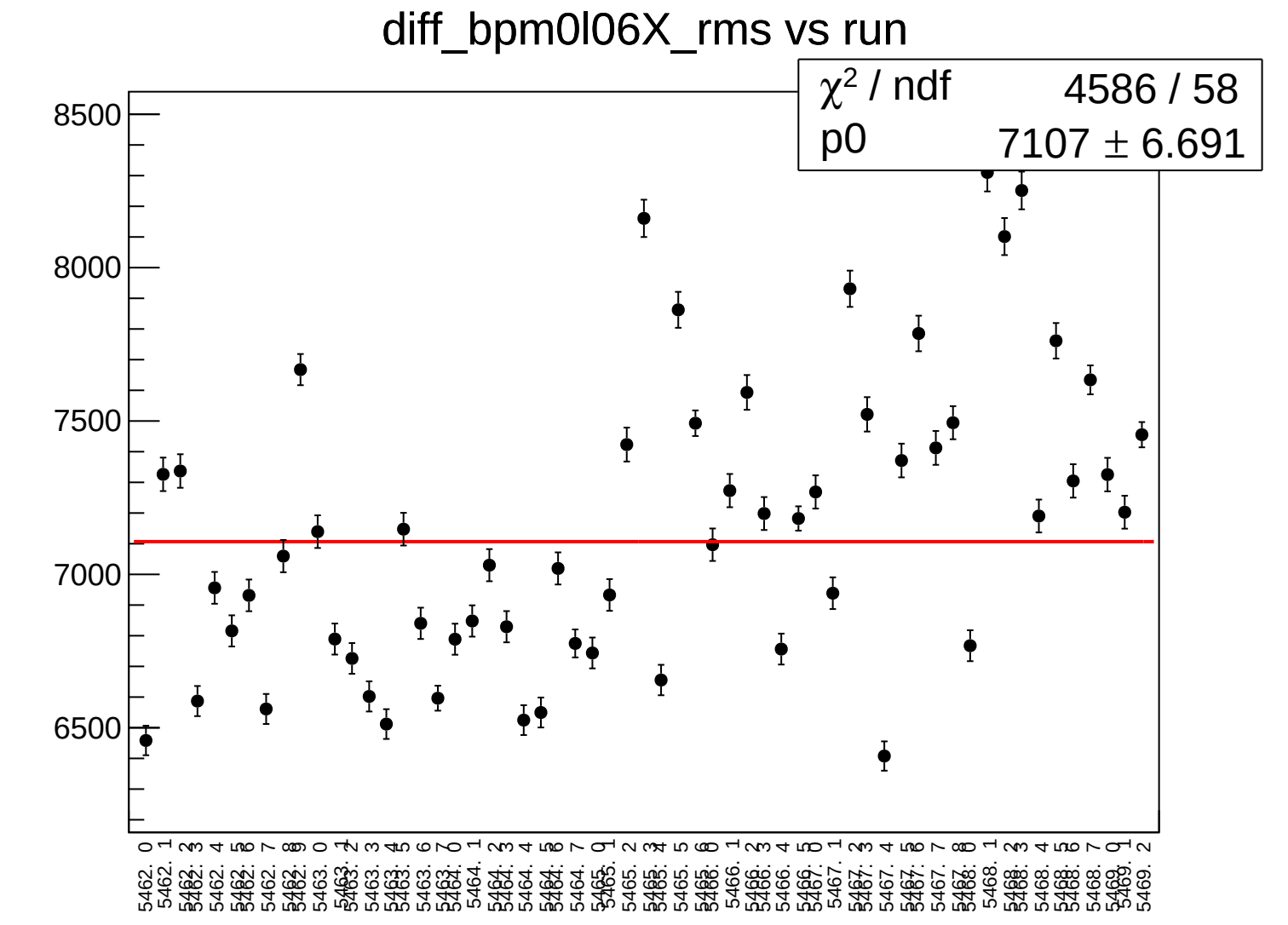

diff_bpm0l05Y_mean vs run
χ^2 / ndf 52.03 / 58
p0 12.47 ± 2.055
pull
Entries 59
Mean 113.4
Std Dev 87.66

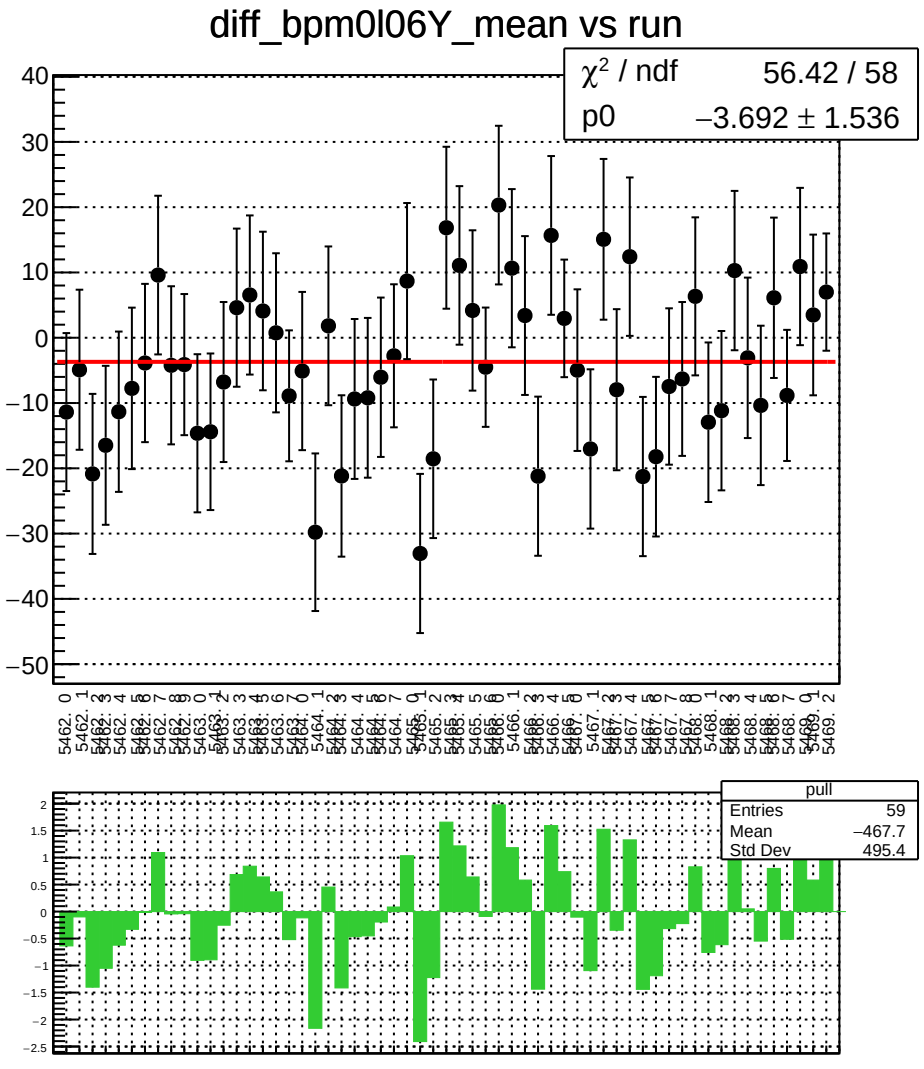

pull1D
Entries 59
Mean 0.008313
Std Dev 0.939

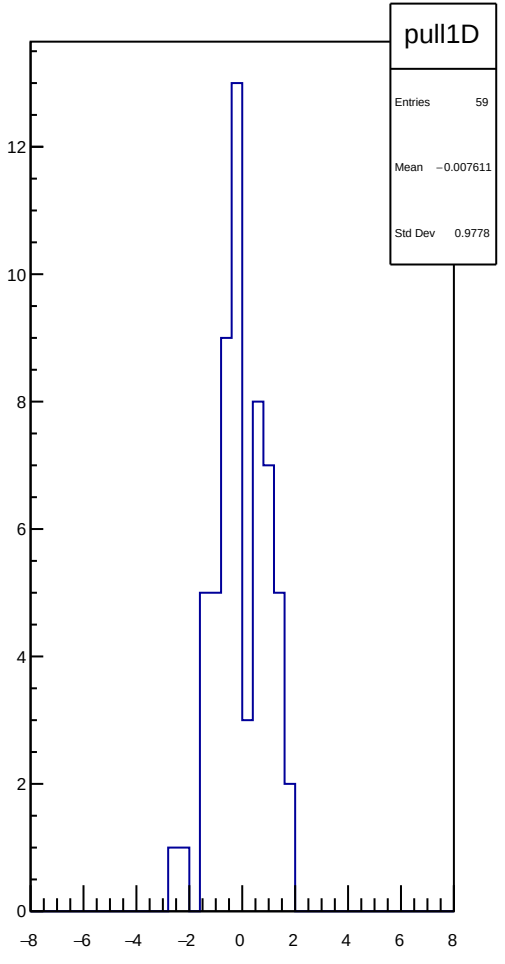

diff_bpm0l05Y_rms vs run
χ^2 / ndf 166.5 / 58
p0 1546 ± 1.453
1620
1600
1580
1560
1540
1520
1500

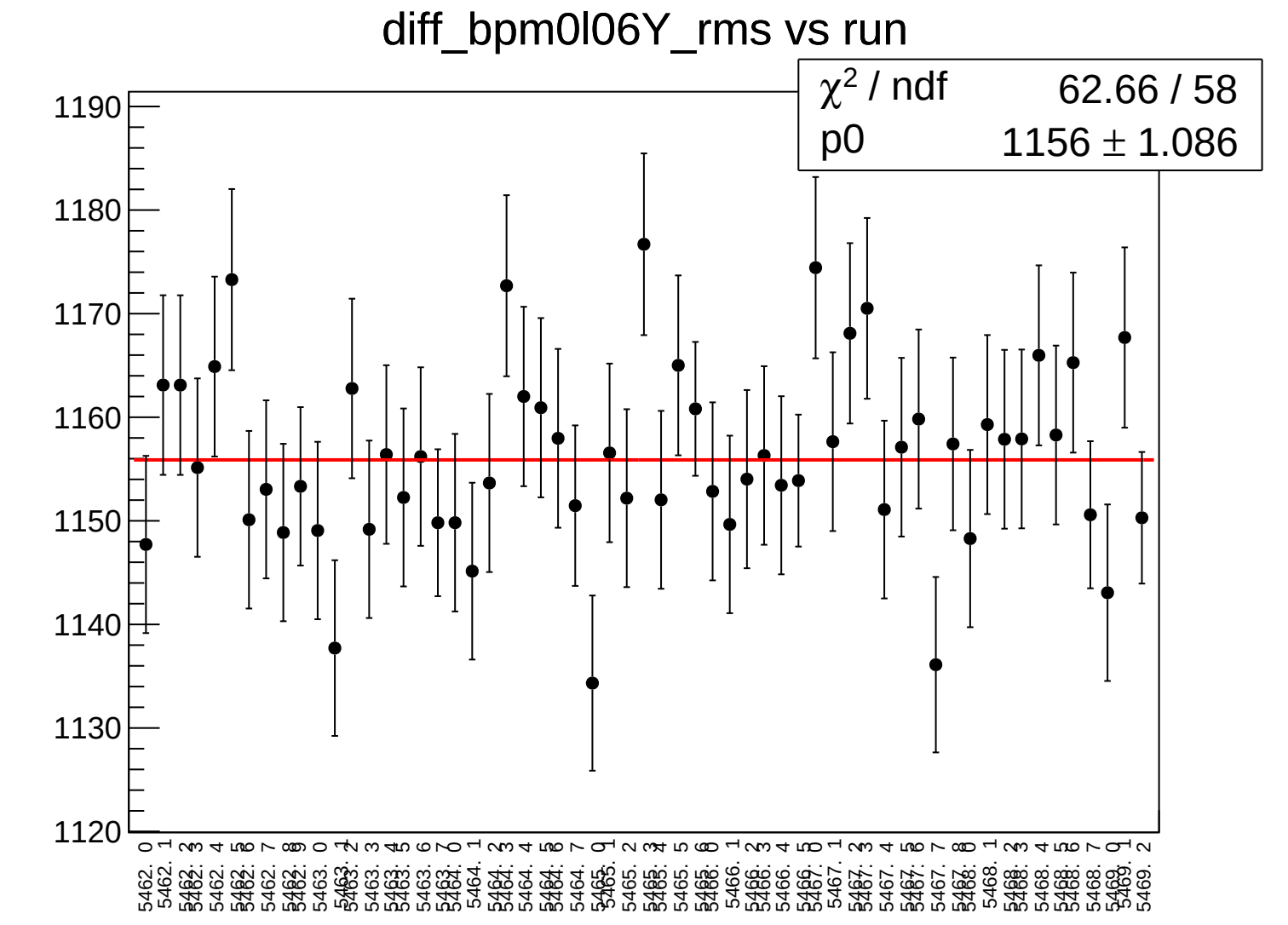

diff_bpm0l06X_mean vs run
χ² / ndf 53.56 / 58
p0 −3.914 ± 9.463
pull
Entries 59
Mean 5.524
Std Dev 30.51

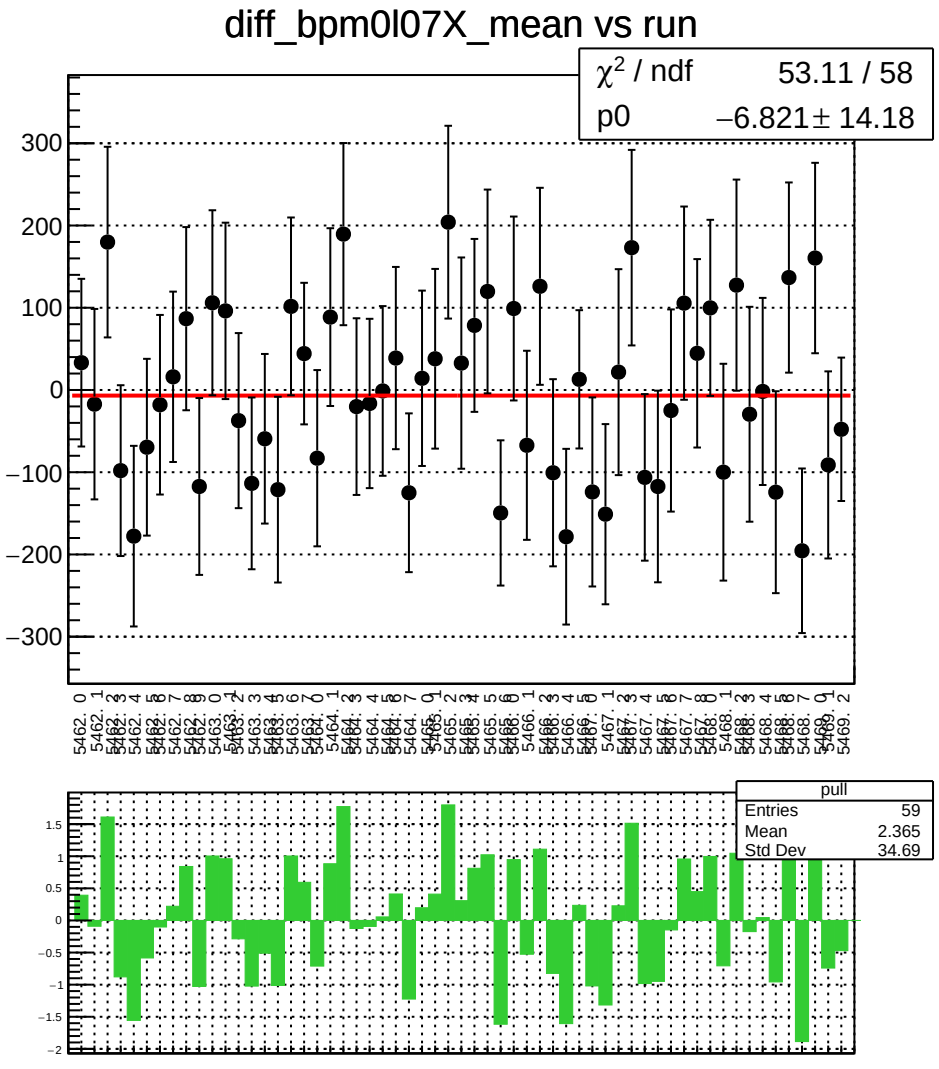

pull1D
Entries 59
Mean 0.02355
Std Dev 0.9525

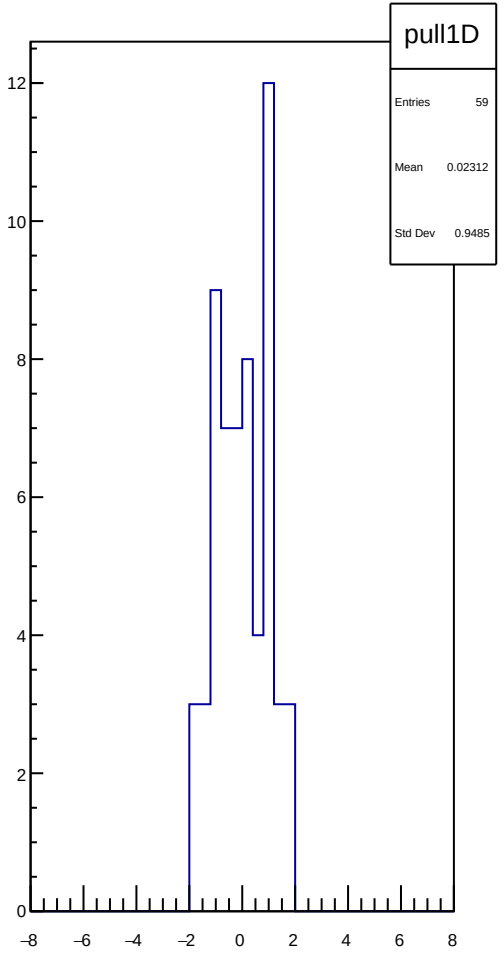

diff_bpm0l06X_rms vs run
χ² / ndf 4586 / 58
p0 7107 ± 6.691
8500
8000
7500
7000
6500

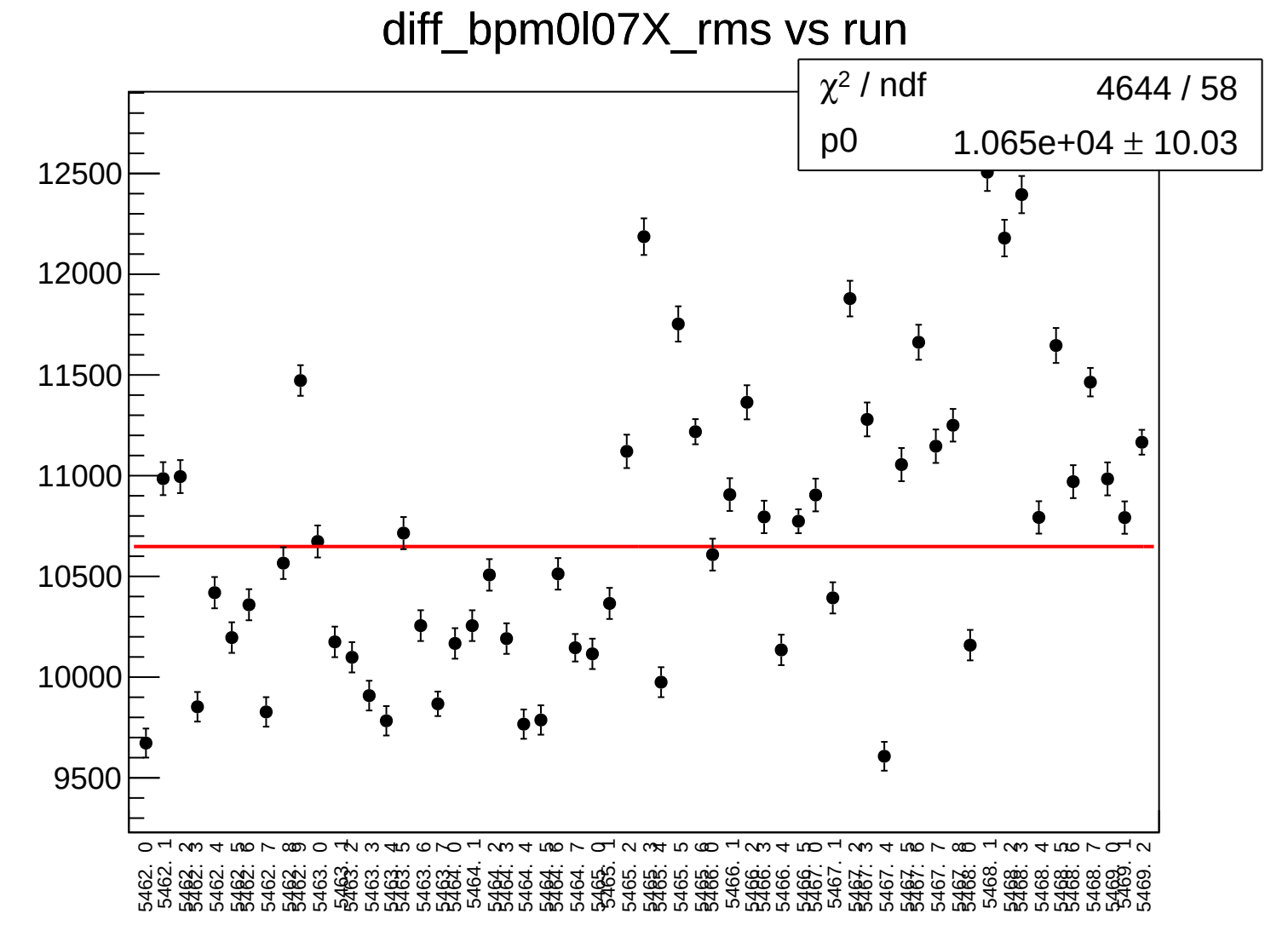

diff_bpm0l06Y_mean vs run
χ² / ndf 56.42 / 58
p0 −3.692 ± 1.536
pull
Entries 59
Mean −467.7
Std Dev 495.4

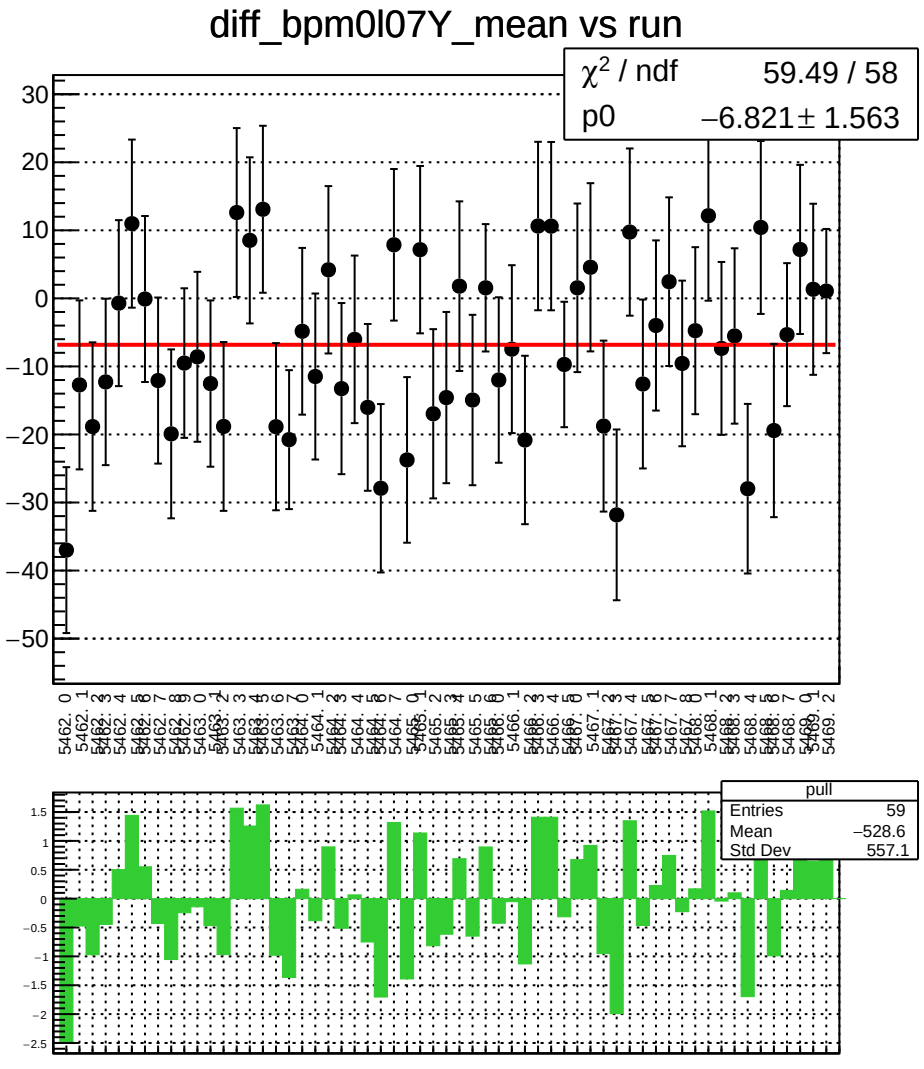

pull1D
Entries 59
Mean −0.007611
Std Dev 0.9778

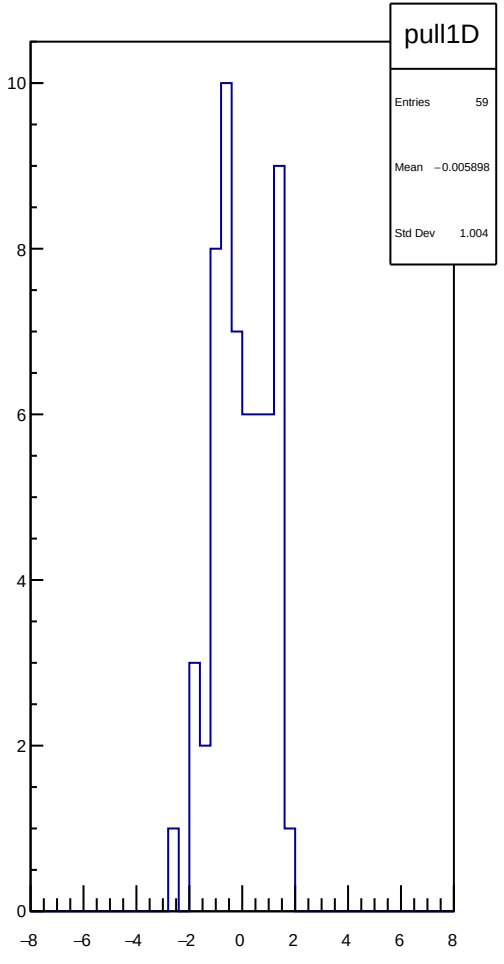

diff_bpm0l06Y_rms vs run
χ^2 / ndf 62.66 / 58
p0 1156 ± 1.086
1190
1180
1170
1160
1150
1140
1130
1120

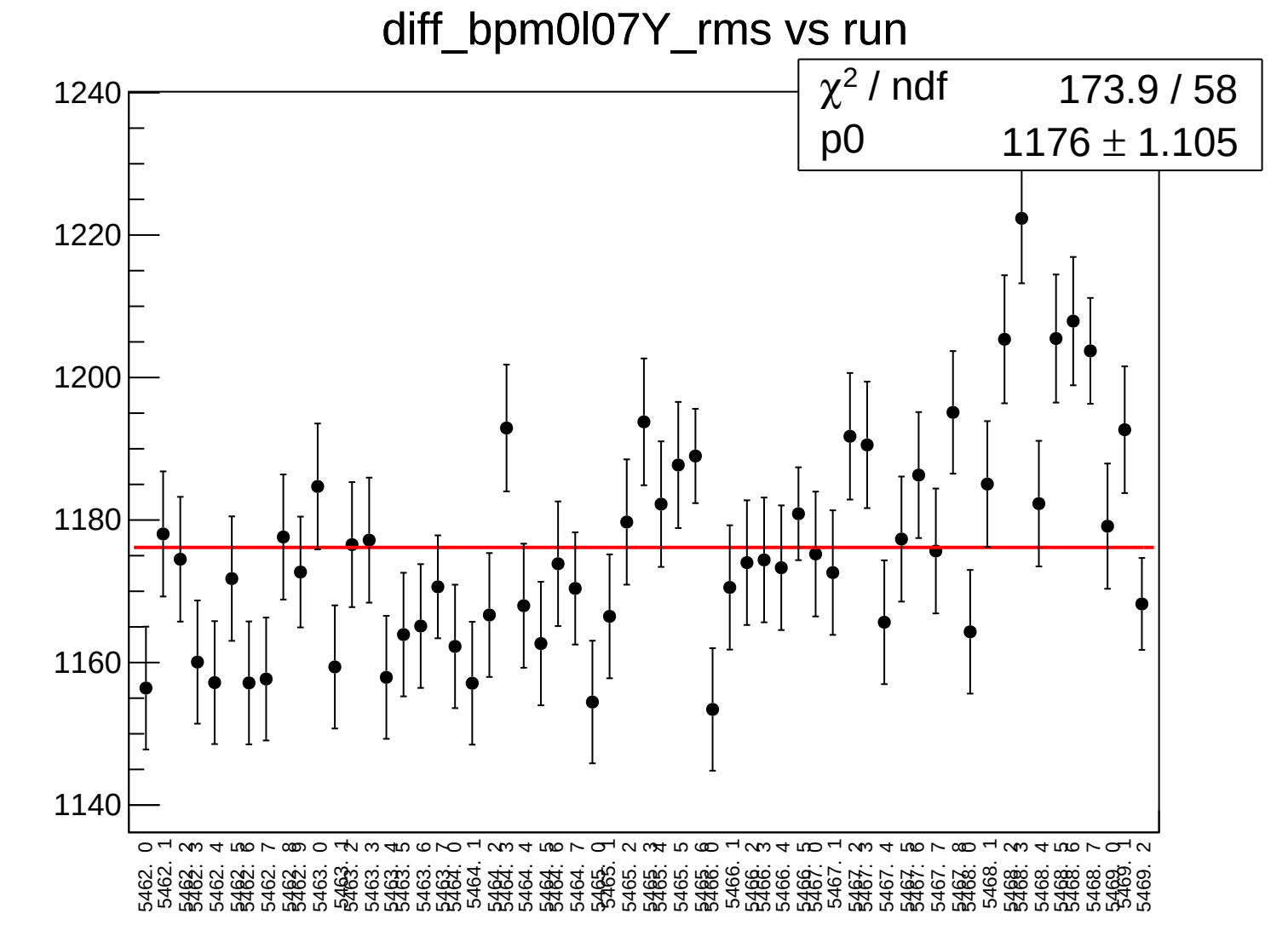

diff_bpm0l07X_mean vs run
χ^2 / ndf 53.11 / 58
p0 −6.821± 14.18
pull
Entries 59
Mean 2.365
Std Dev 34.69

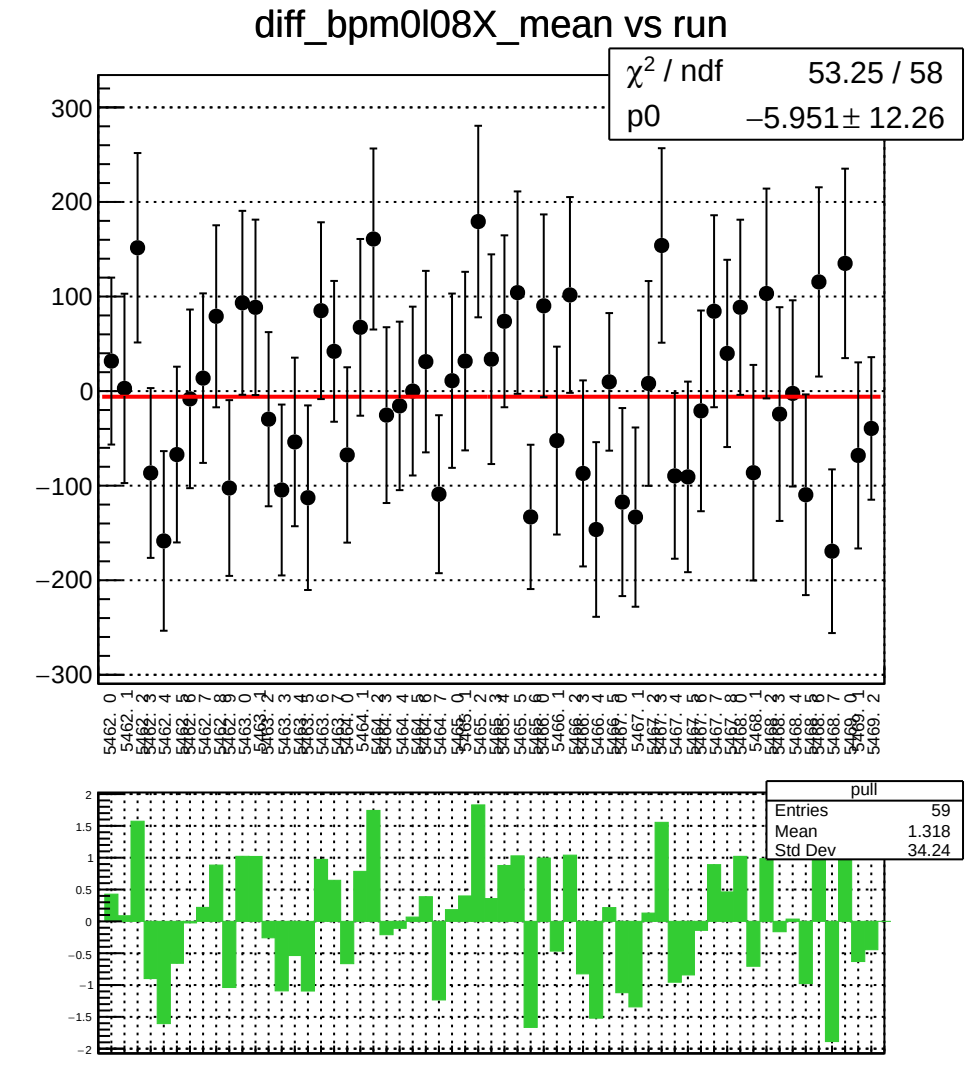

pull1D
Entries 59
Mean 0.02312
Std Dev 0.9485

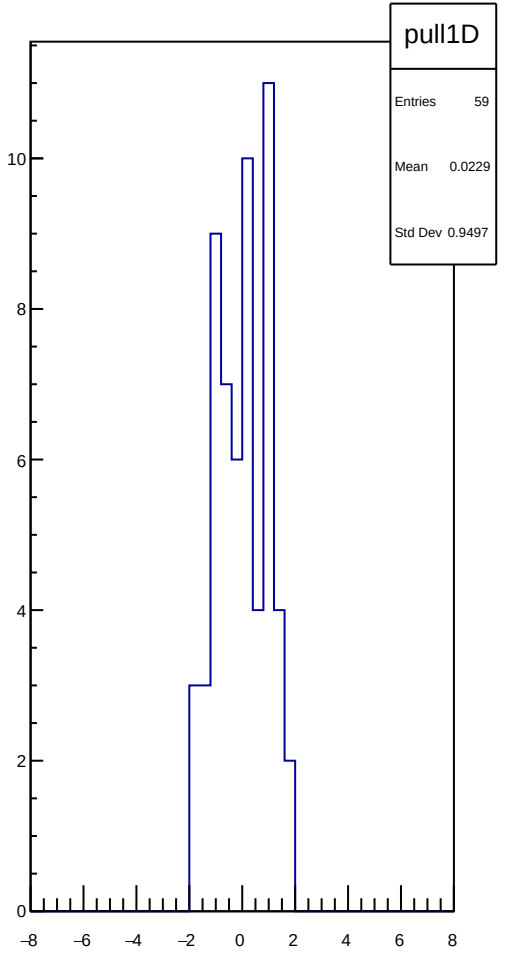

diff_bpm0l07X_rms vs run
χ² / ndf 4644 / 58
p0 1.065e+04 ± 10.03
12500
12000
11500
11000
10500
10000
9500

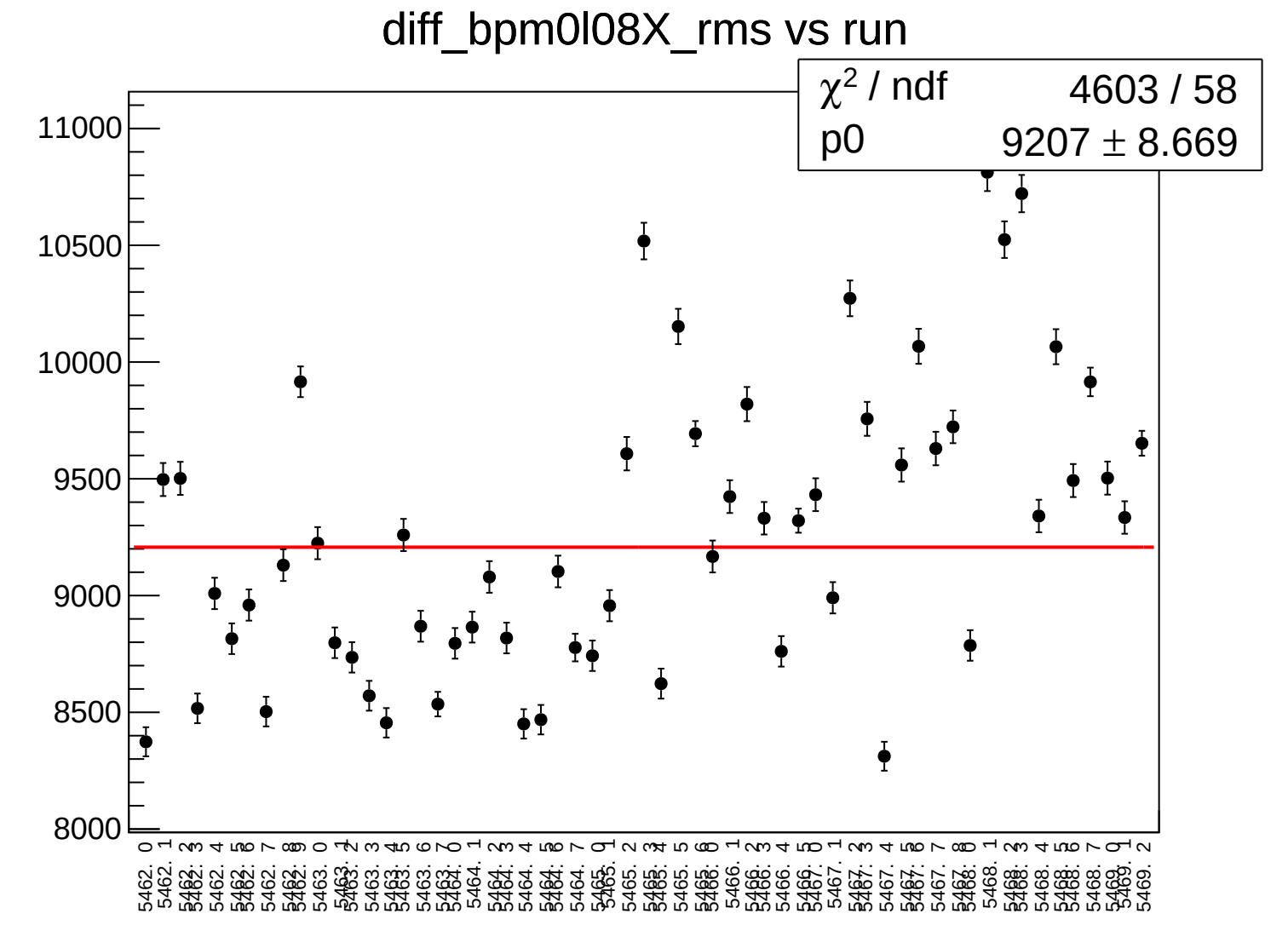

diff_bpm0l07Y_mean vs run
χ² / ndf 59.49 / 58
p0 −6.821 ± 1.563
pull
Entries 59
Mean −528.6
Std Dev 557.1

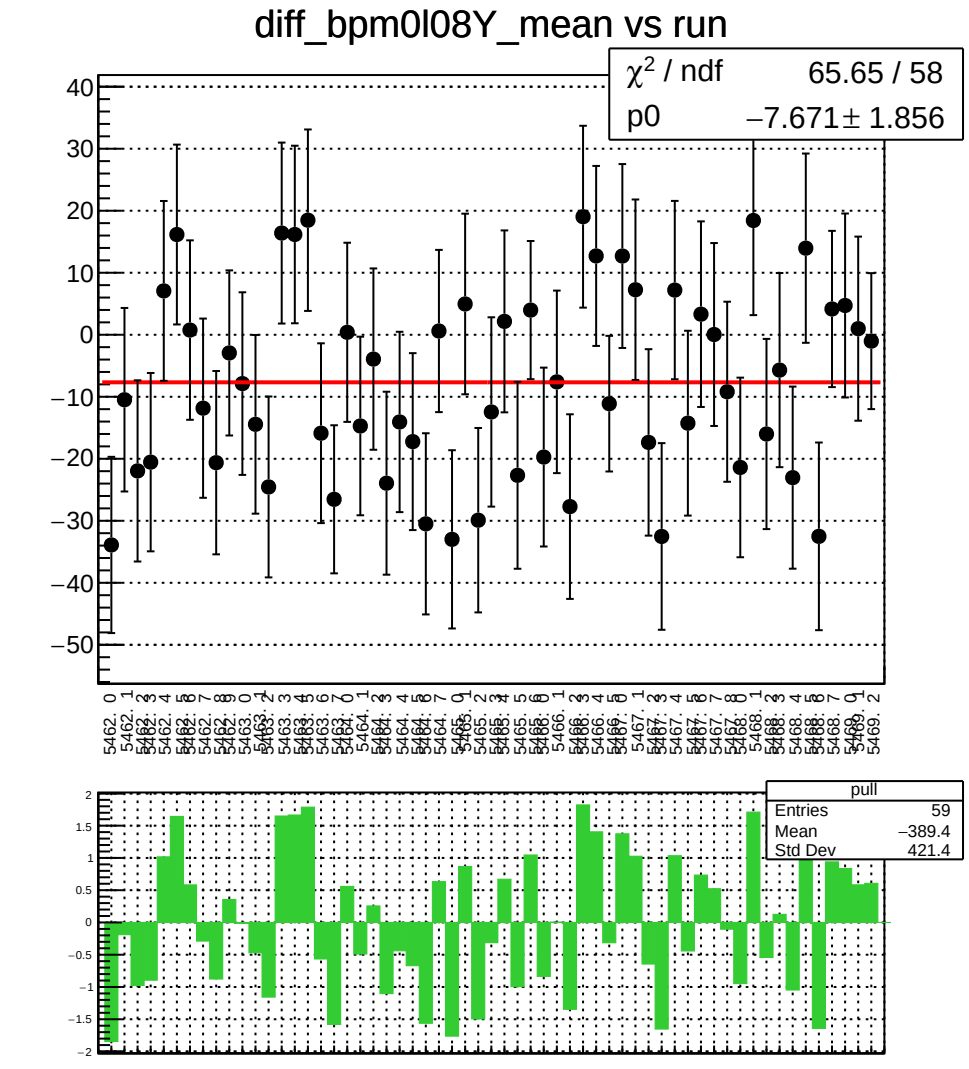

pull1D
Entries 59
Mean −0.005898
Std Dev 1.004

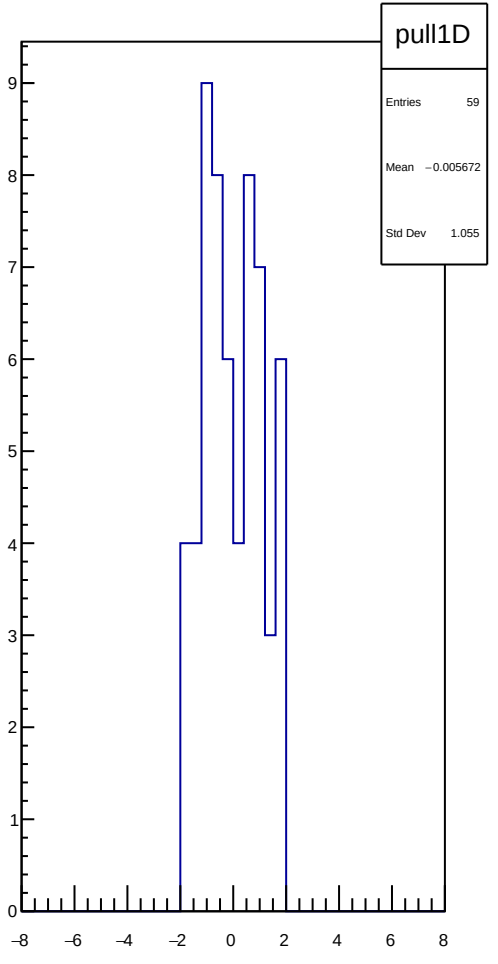

diff_bpm0l07Y_rms vs run
χ² / ndf 173.9 / 58
p0 1176 ± 1.105
1240
1220
1200
1180
1160
1140

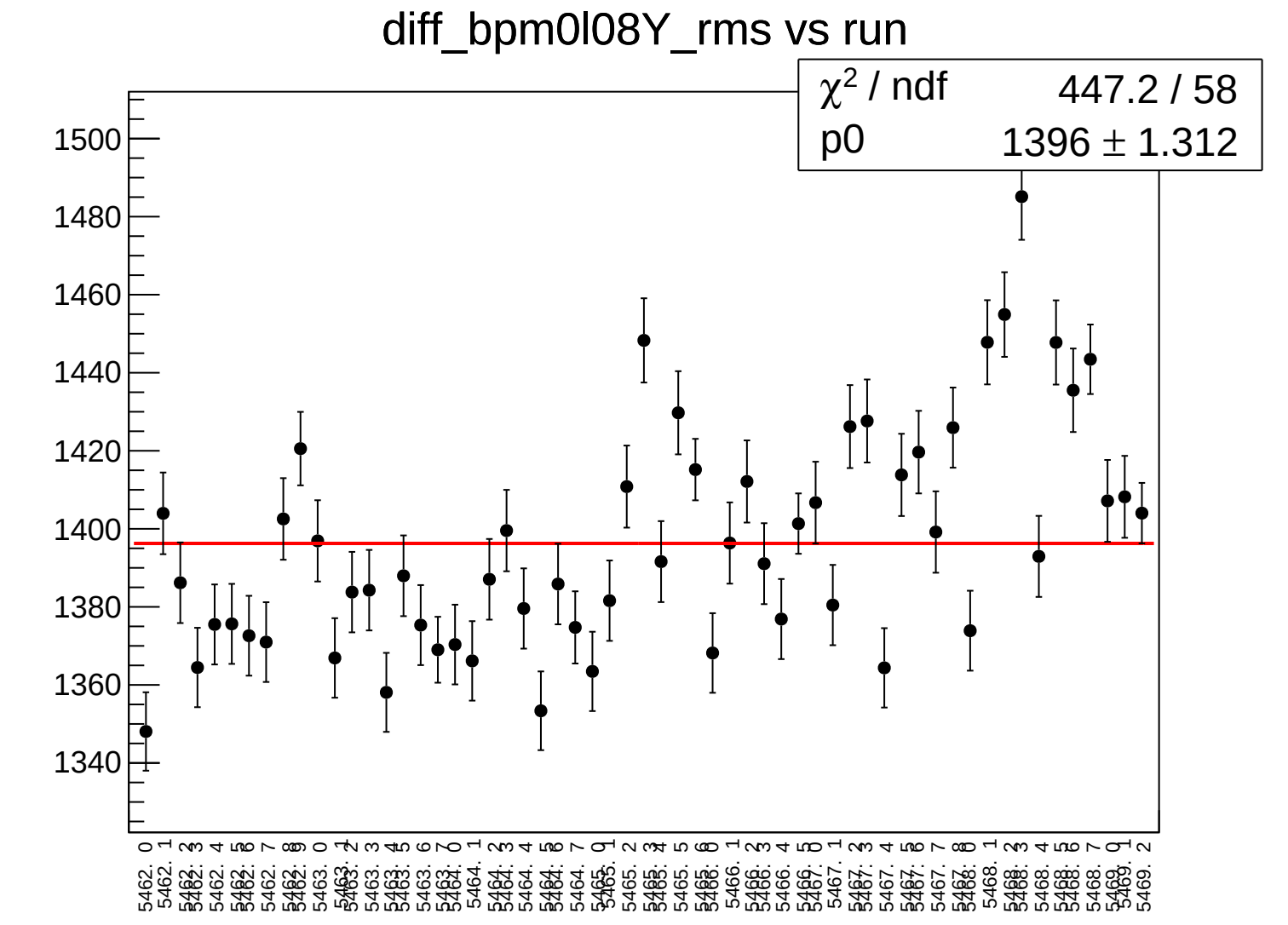

diff_bpm0l08X_mean vs run
χ^2 / ndf 53.25 / 58
p0 −5.951 ± 12.26
pull
Entries 59
Mean 1.318
Std Dev 34.24

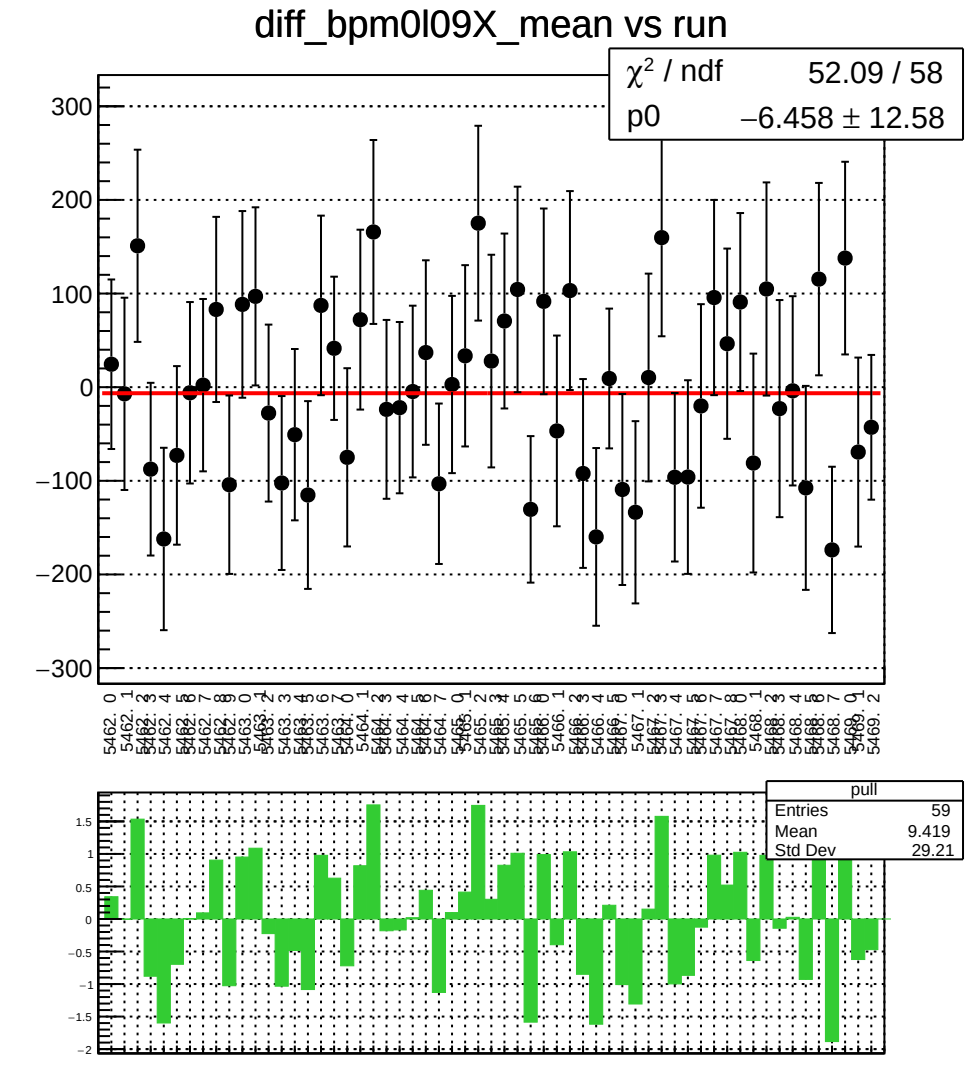

pull1D
Entries 59
Mean 0.0229
Std Dev 0.9497

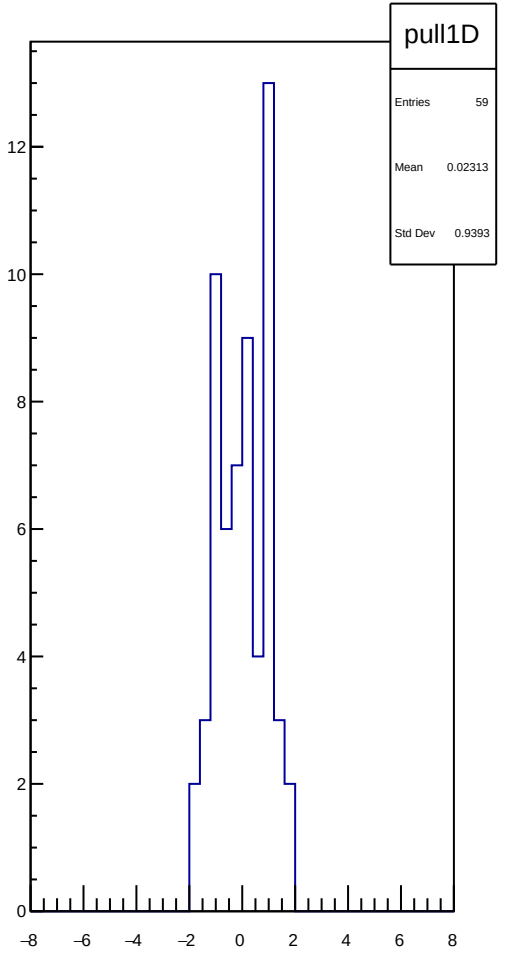

diff_bpm0l08X_rms vs run
χ² / ndf 4603 / 58
p0 9207 ± 8.669
11000
10500
10000
9500
9000
8500
8000
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

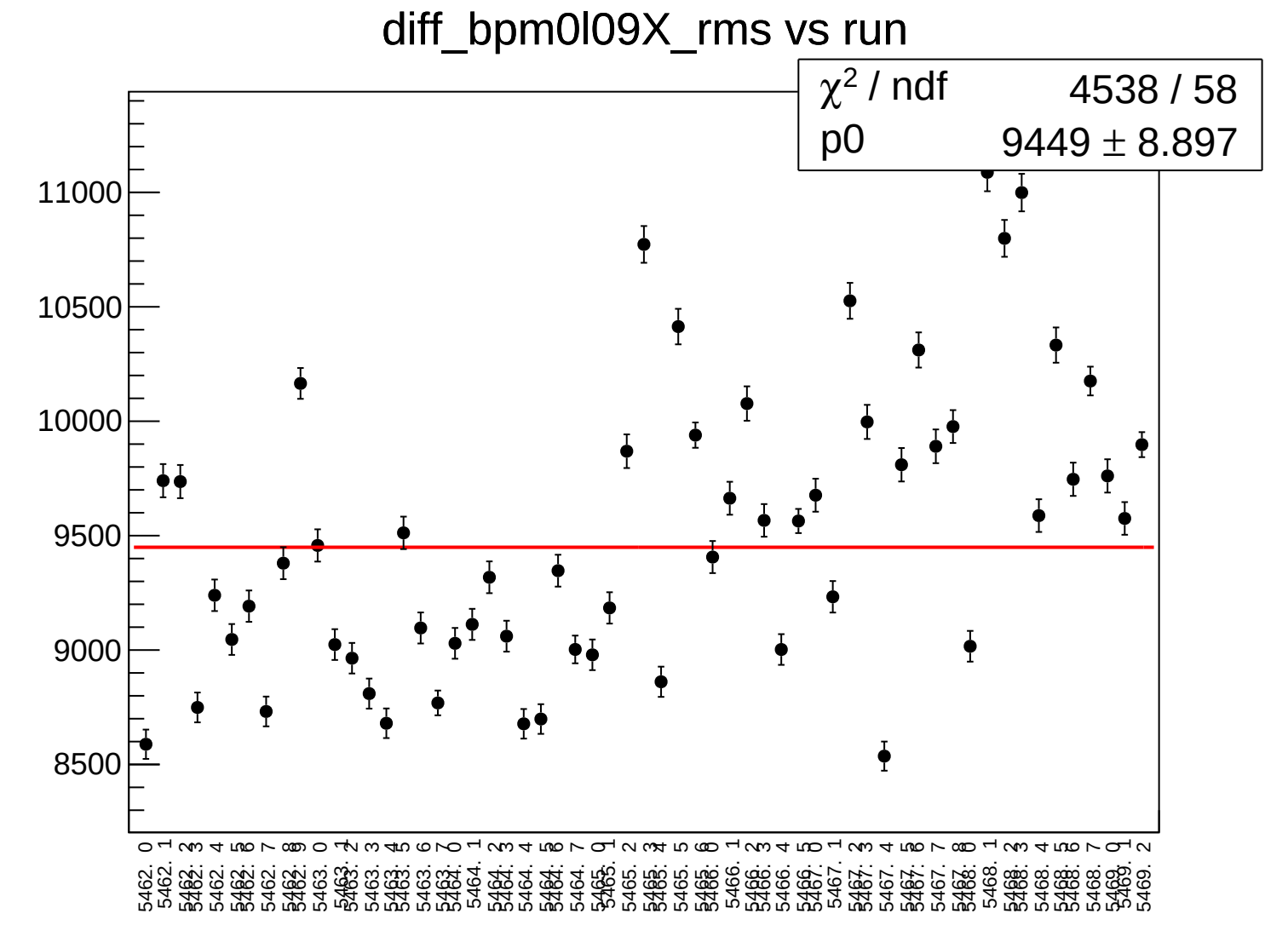

diff_bpm0l08Y_mean vs run
χ² / ndf 65.65 / 58
p0 −7.671± 1.856
pull
Entries 59
Mean −389.4
Std Dev 421.4

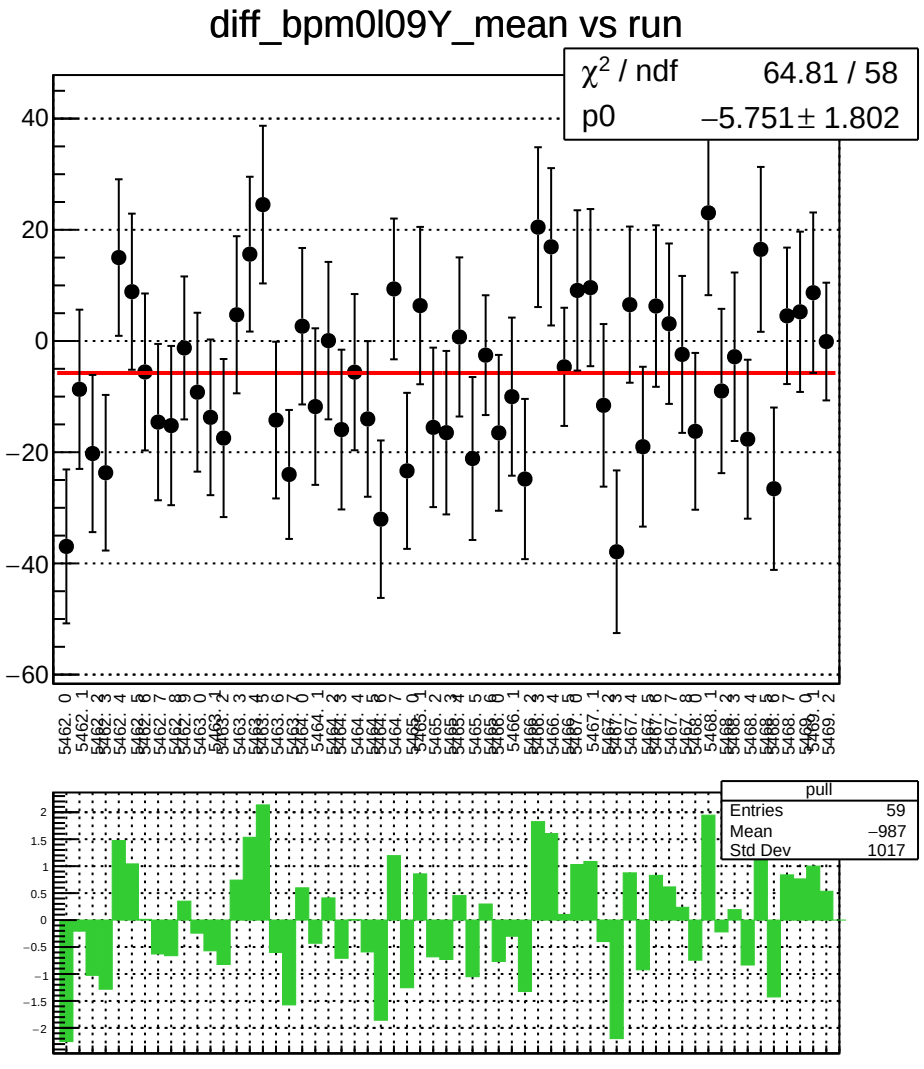

pull1D
Entries 59
Mean −0.005672
Std Dev 1.055

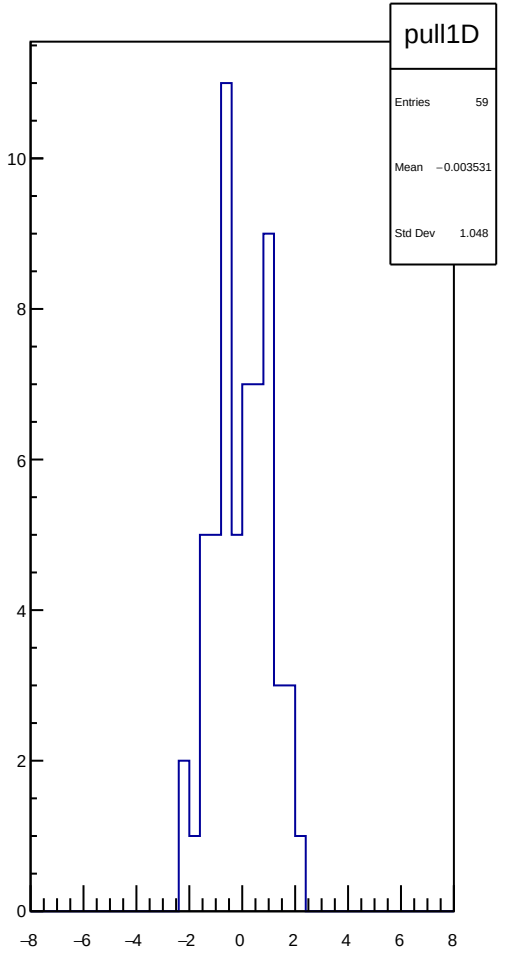

diff_bpm0l08Y_rms vs run
χ² / ndf 447.2 / 58
p0 1396 ± 1.312
1500
1480
1460
1440
1420
1400
1380
1360
1340

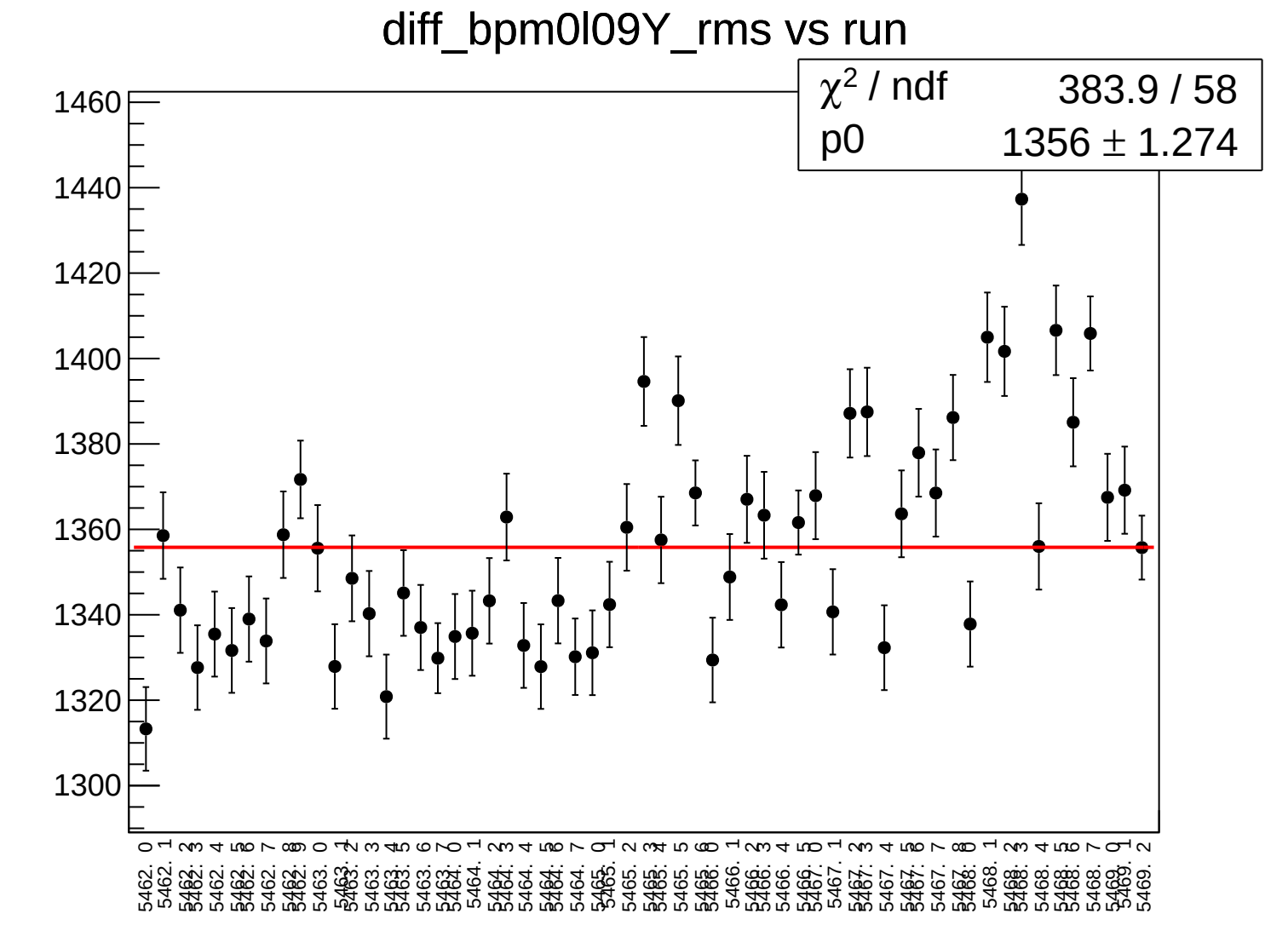

diff_bpm0l09X_mean vs run
χ² / ndf 52.09 / 58
p0 −6.458 ± 12.58
pull
Entries 59
Mean 9.419
Std Dev 29.21

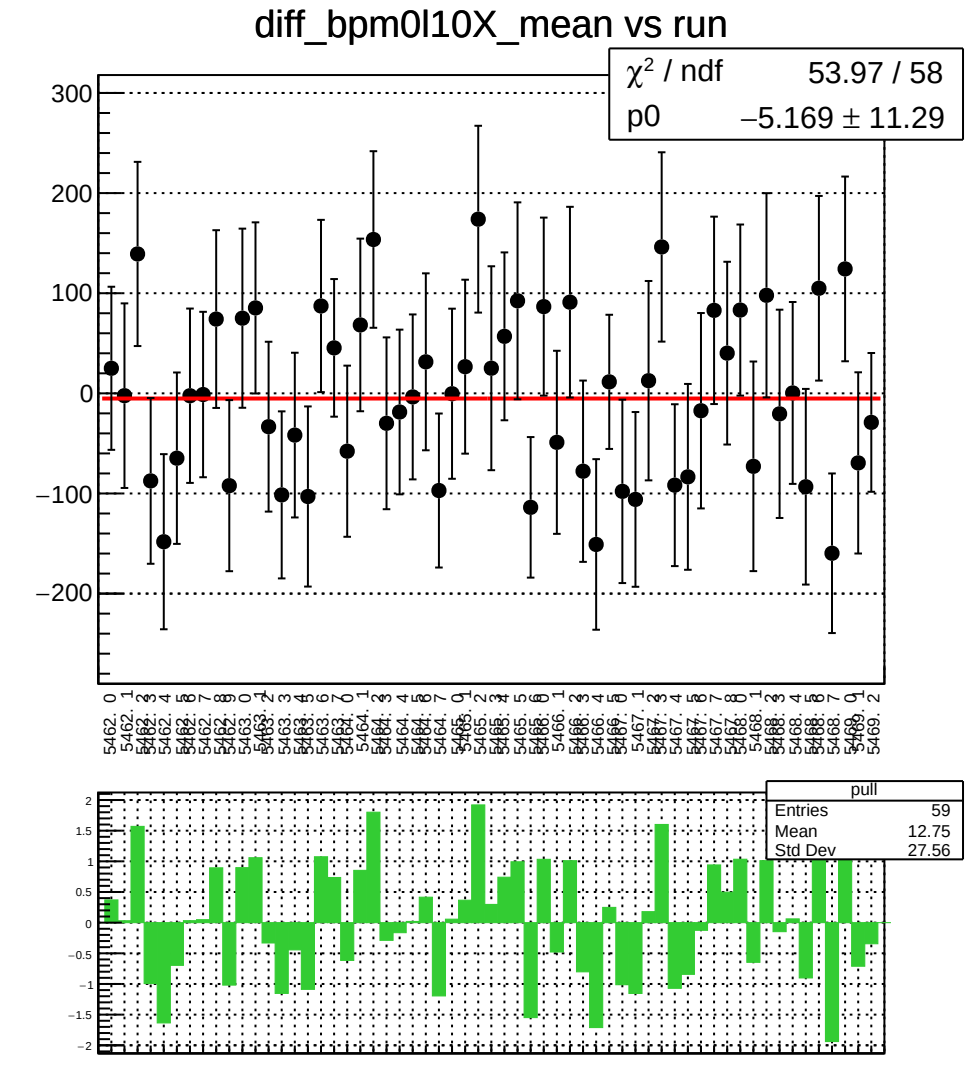

pull1D
Entries 59
Mean 0.02313
Std Dev 0.9393

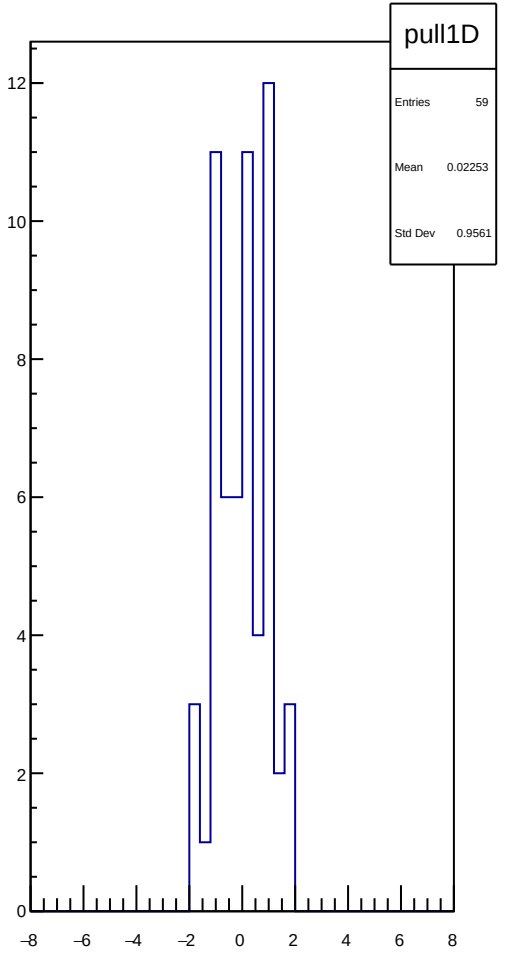

diff_bpm0l09X_rms vs run
χ² / ndf 4538 / 58
p0 9449 ± 8.897
11000
10500
10000
9500
9000
8500

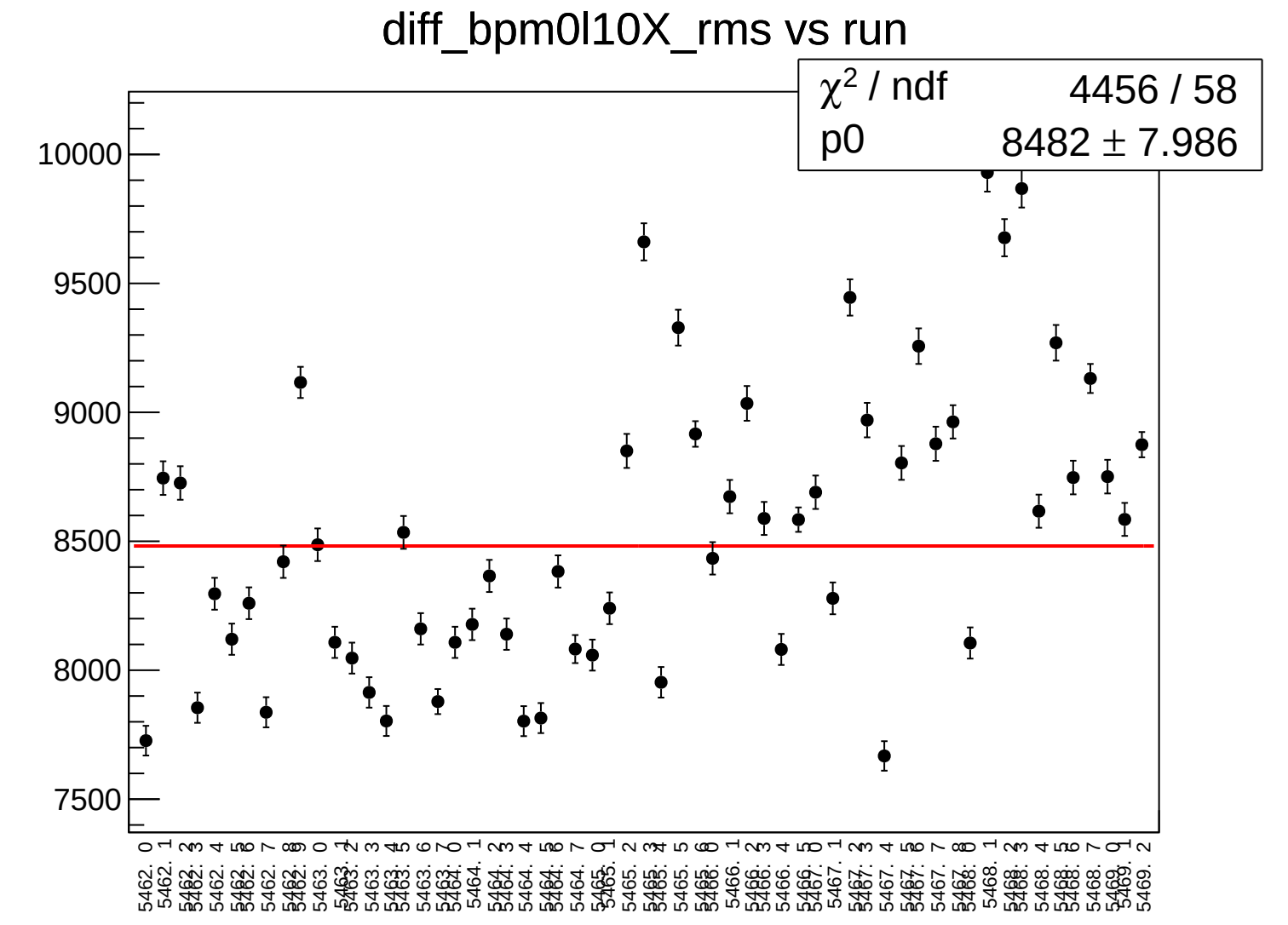

diff_bpm0l09Y_mean vs run
χ² / ndf 64.81 / 58
p0 −5.751 ± 1.802
pull
Entries 59
Mean −987
Std Dev 1017

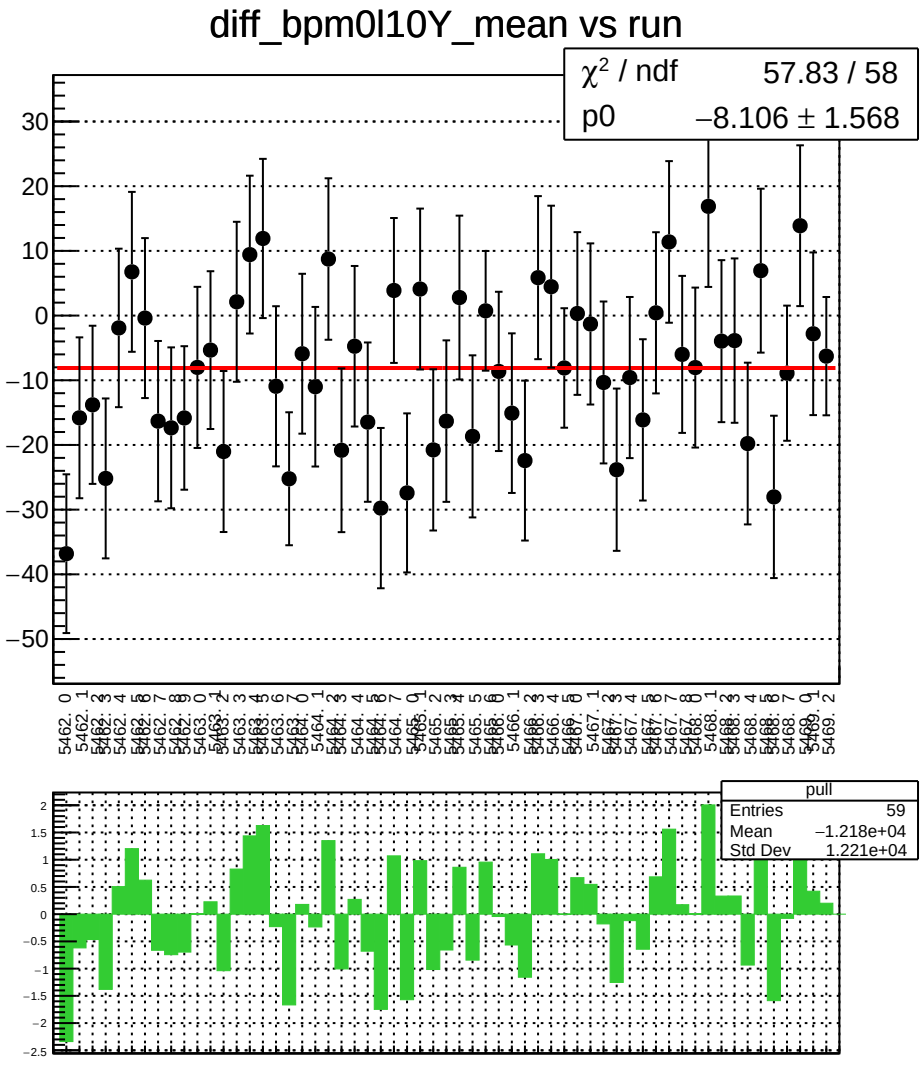

pull1D
Entries 59
Mean −0.003531
Std Dev 1.048

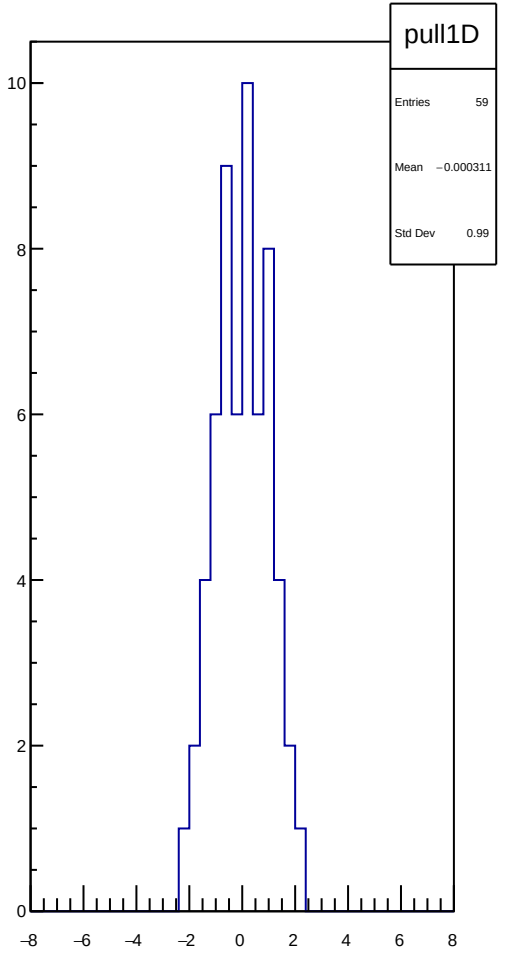

diff_bpm0l09Y_rms vs run
χ² / ndf 383.9 / 58
p0 1356 ± 1.274
1460
1440
1420
1400
1380
1360
1340
1320
1300

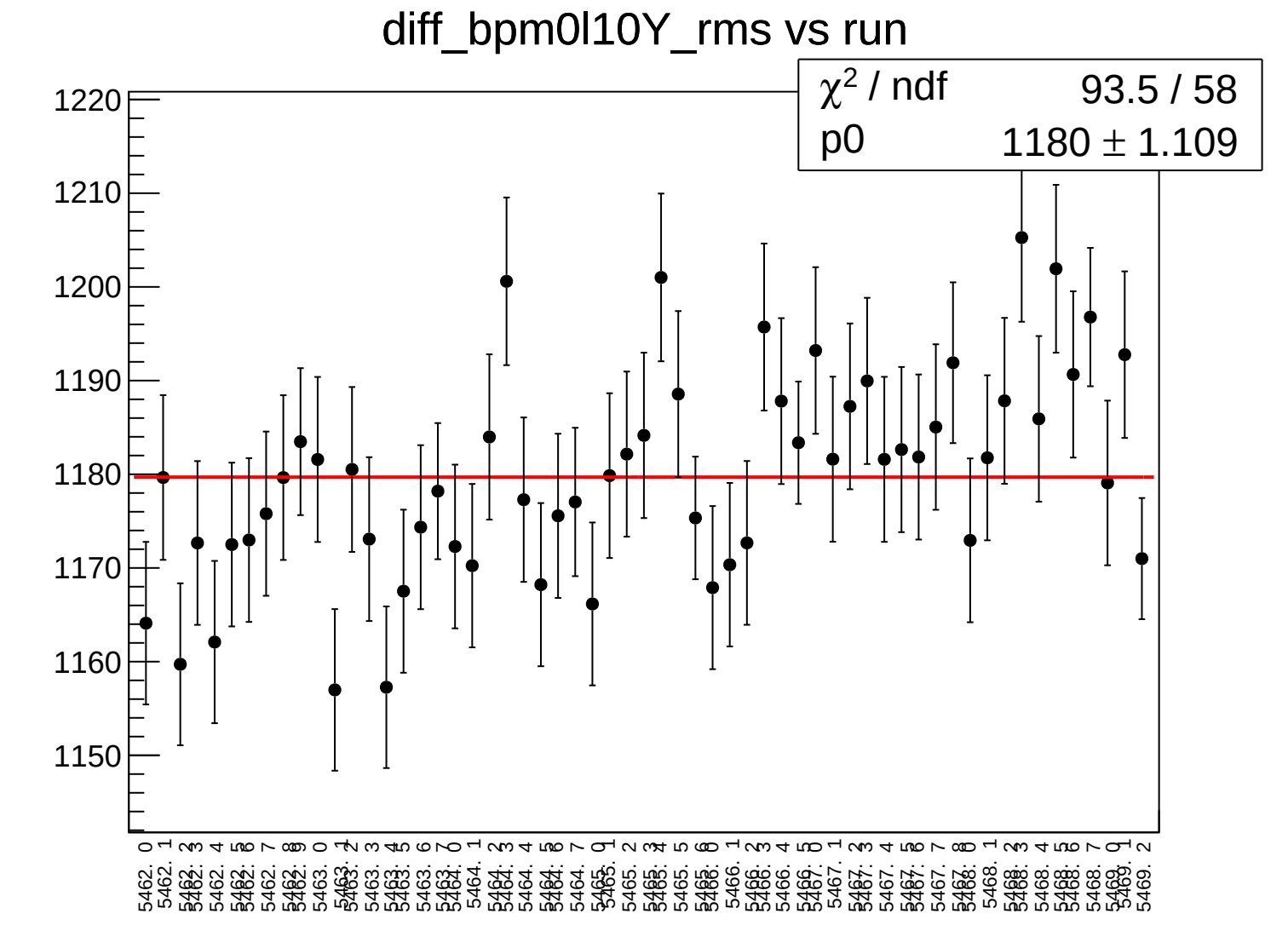

diff_bpm0l10X_mean vs run
χ² / ndf 53.97 / 58
p0 −5.169 ± 11.29
pull
Entries 59
Mean 12.75
Std Dev 27.56

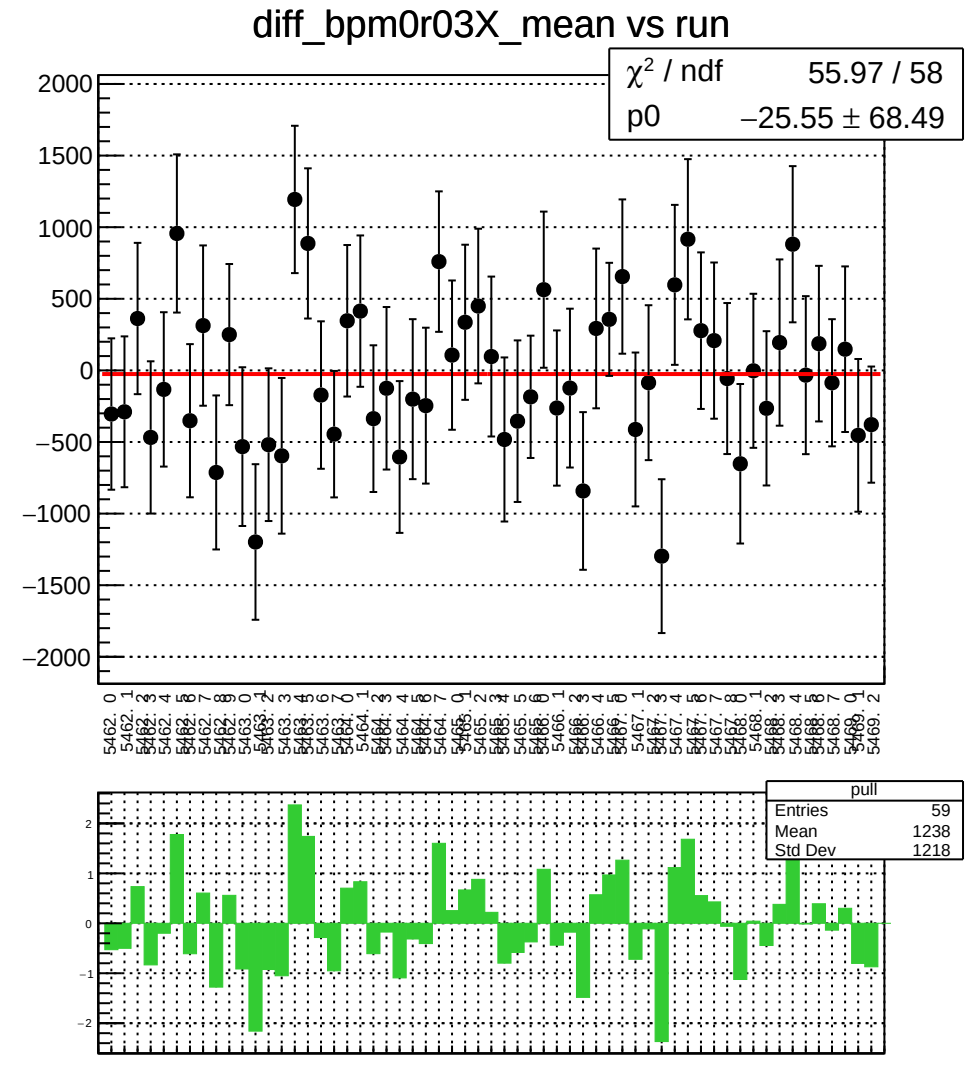

pull1D
Entries 59
Mean 0.02253
Std Dev 0.9561

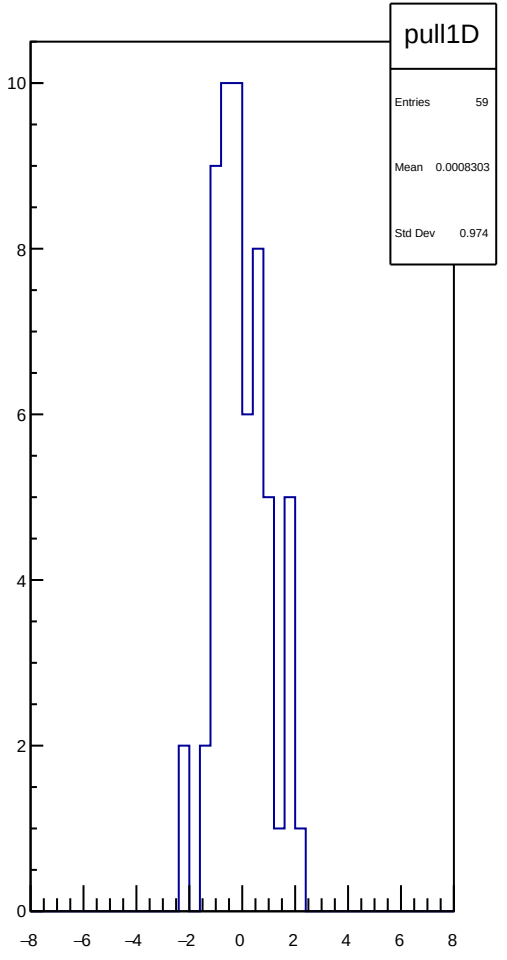

diff_bpm0l10X_rms vs run
χ² / ndf 4456 / 58
p0 8482 ± 7.986
10000
9500
9000
8500
8000
7500

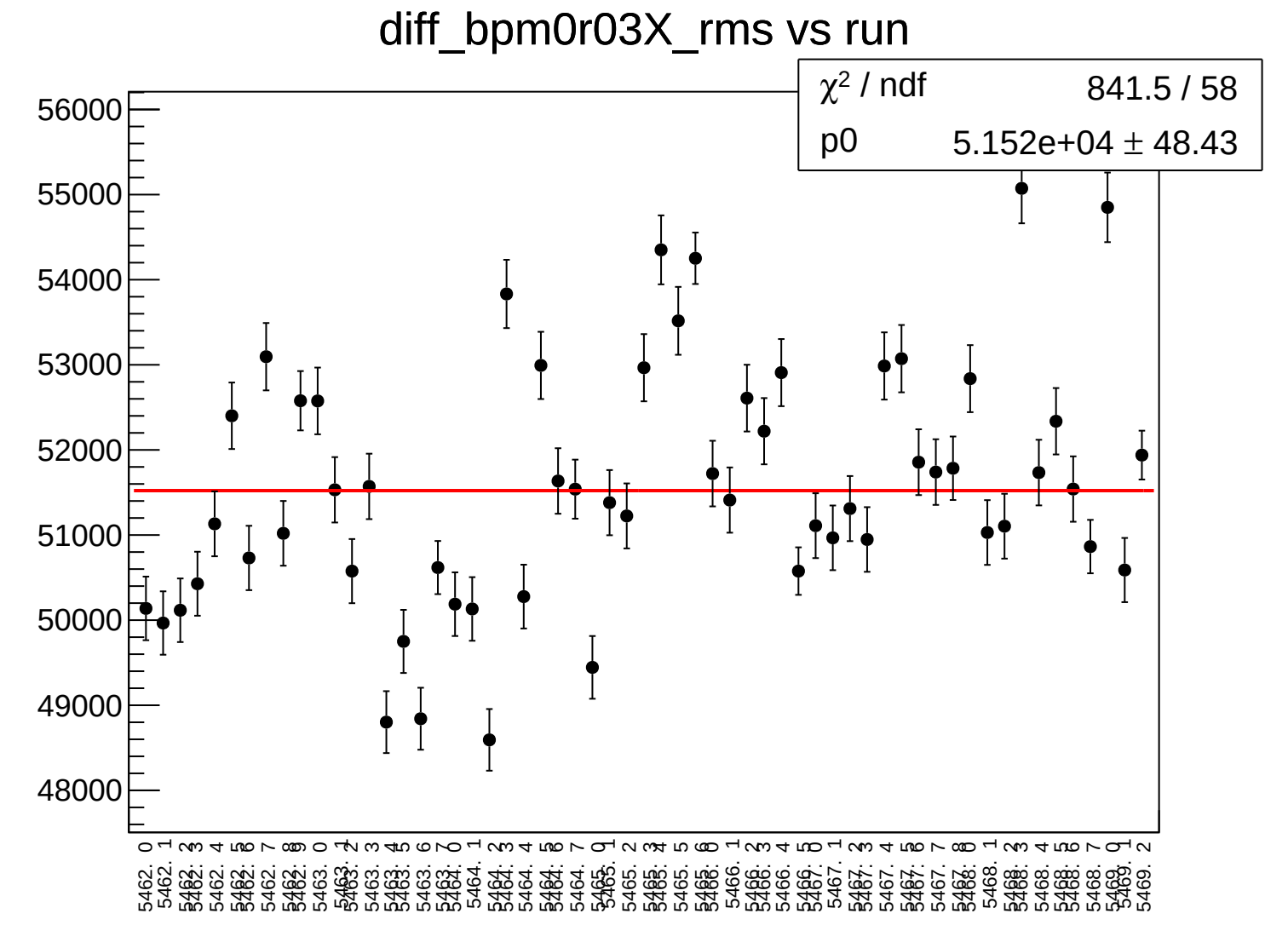

diff_bpm0l10Y_mean vs run
χ² / ndf 57.83 / 58
p0 −8.106 ± 1.568
pull
Entries 59
Mean −1.218e+04
Std Dev 1.221e+04

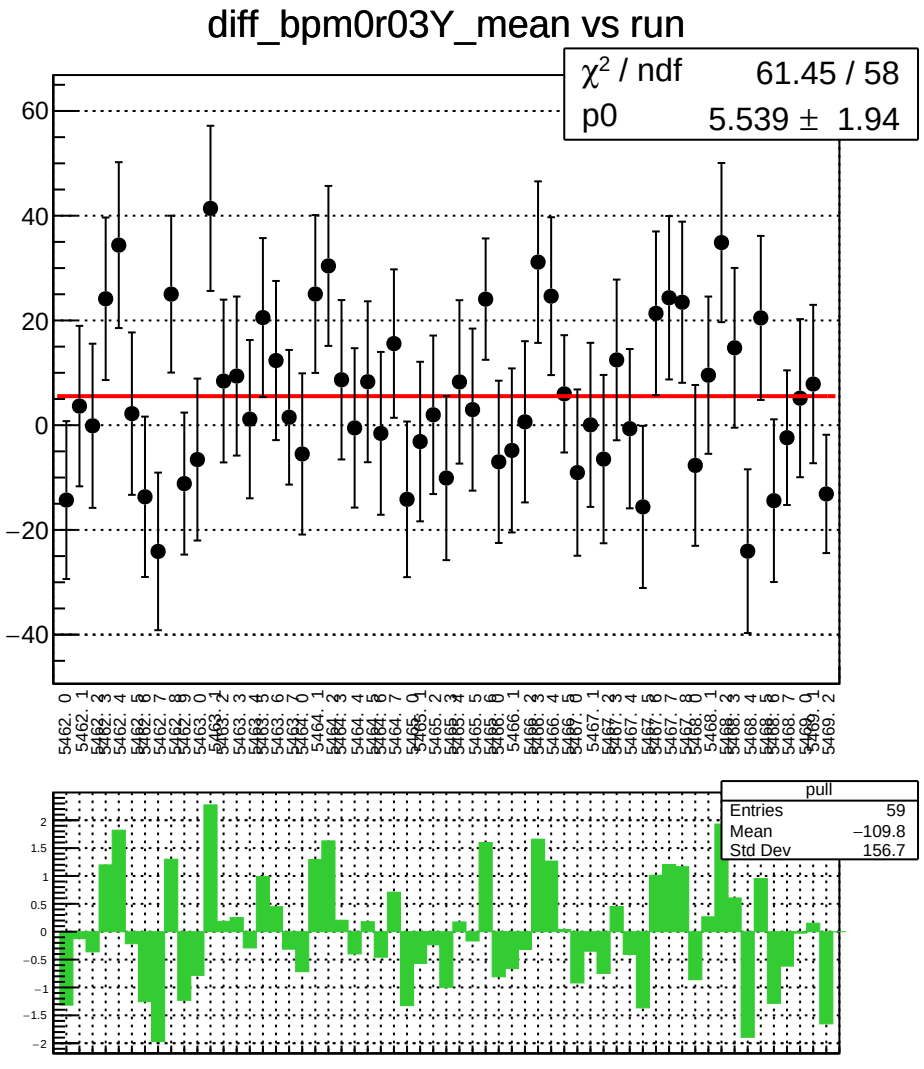

pull1D
Entries 59
Mean −0.000311
Std Dev 0.99

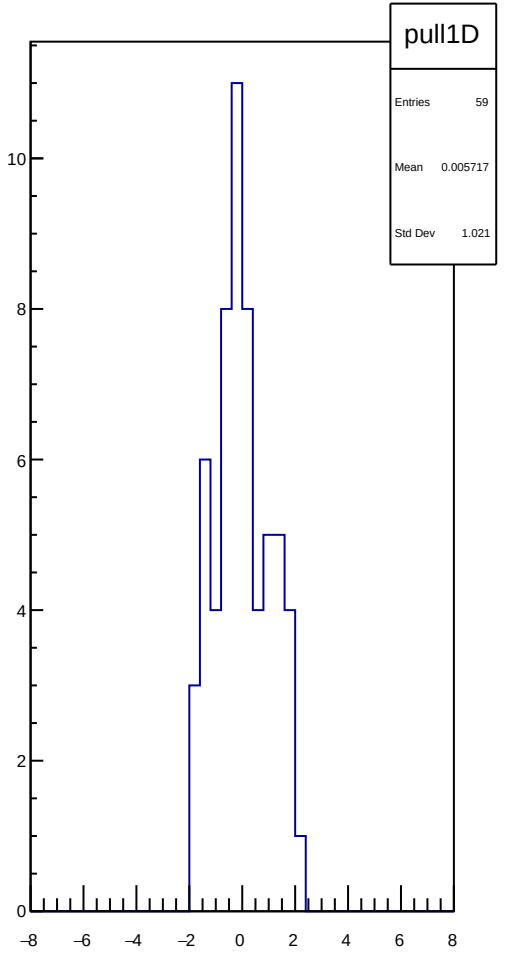

diff_bpm0l10Y_rms vs run
χ² / ndf 93.5 / 58
p0 1180 ± 1.109
1220
1210
1200
1190
1180
1170
1160
1150

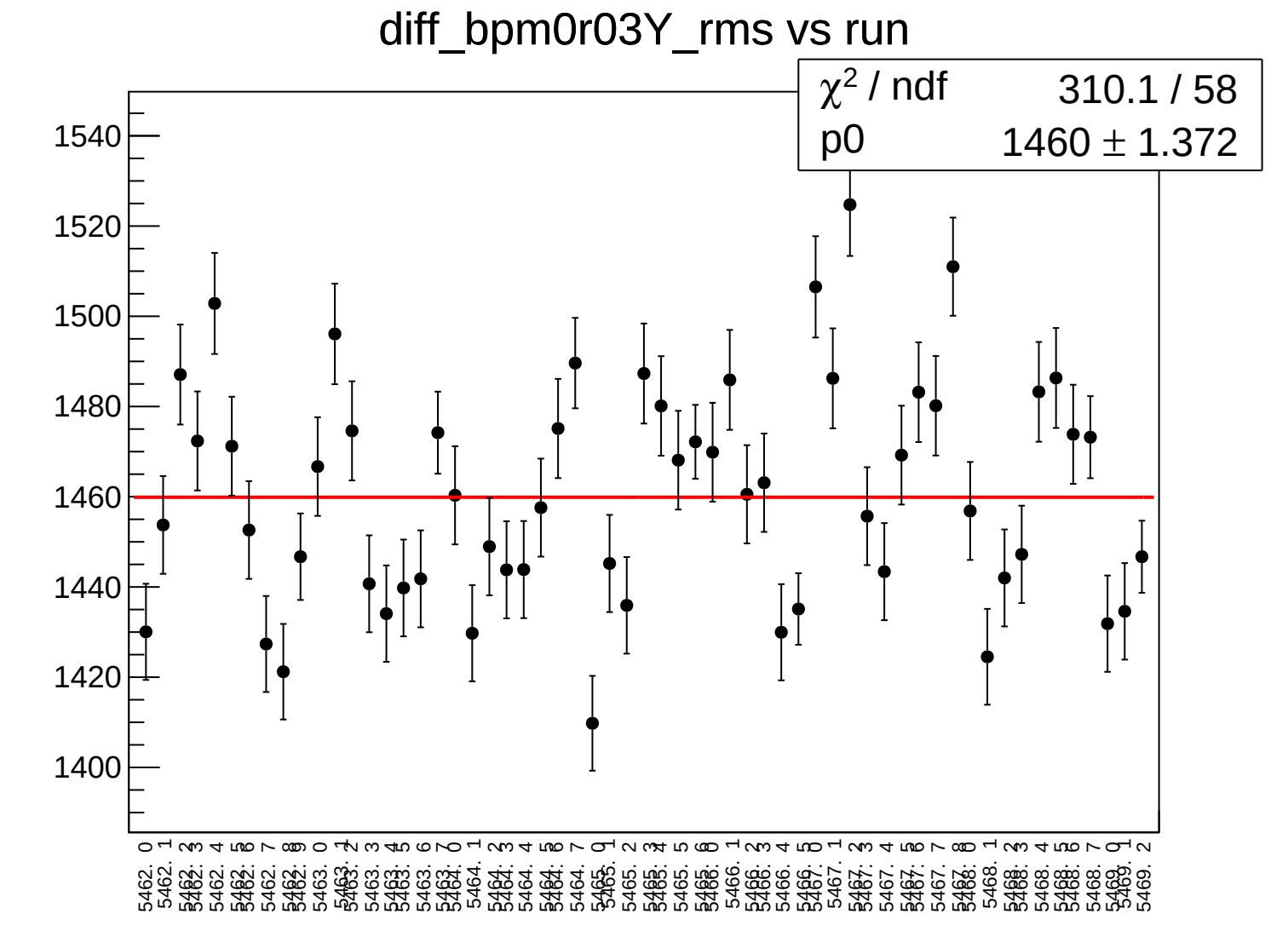

diff_bpm0r03X_mean vs run
χ² / ndf 55.97 / 58
p0 −25.55 ± 68.49
pull
Entries 59
Mean 1238
Std Dev 1218

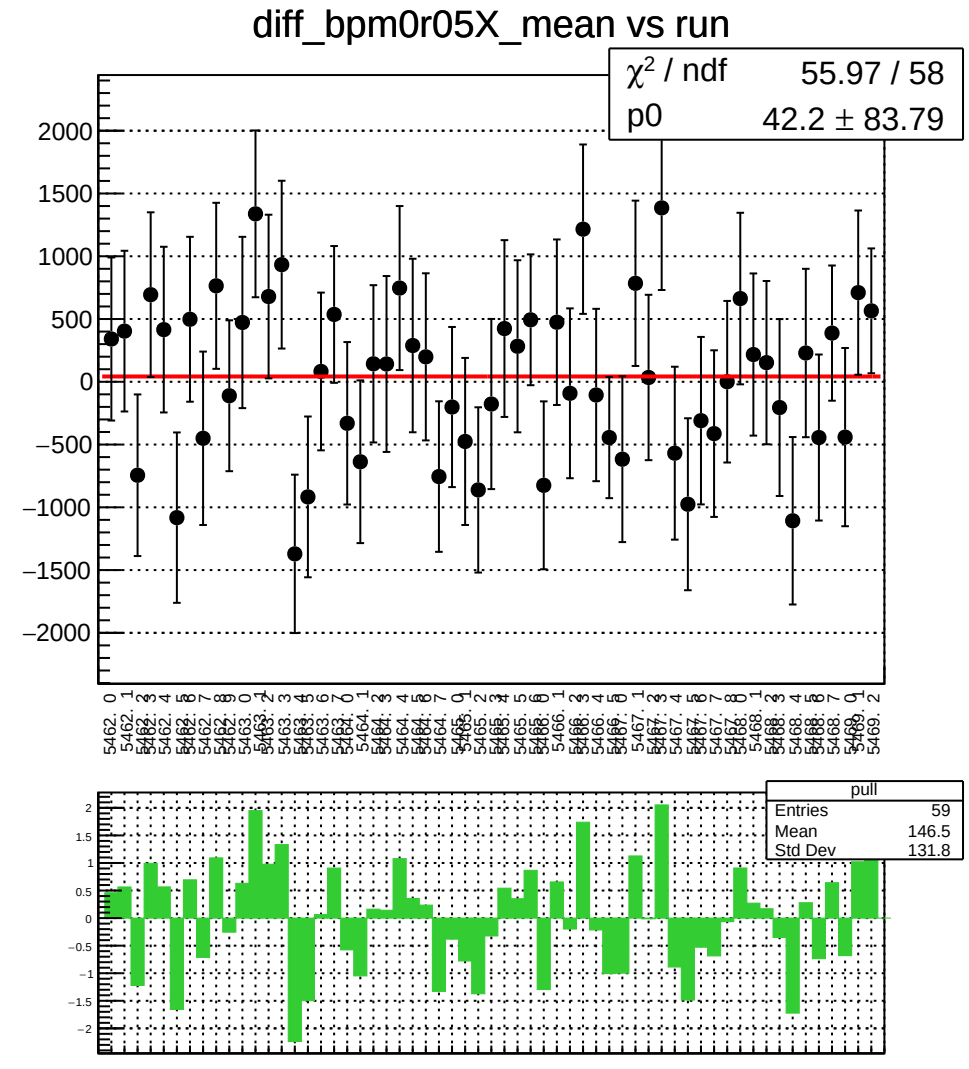

pull1D
Entries 59
Mean 0.0008303
Std Dev 0.974

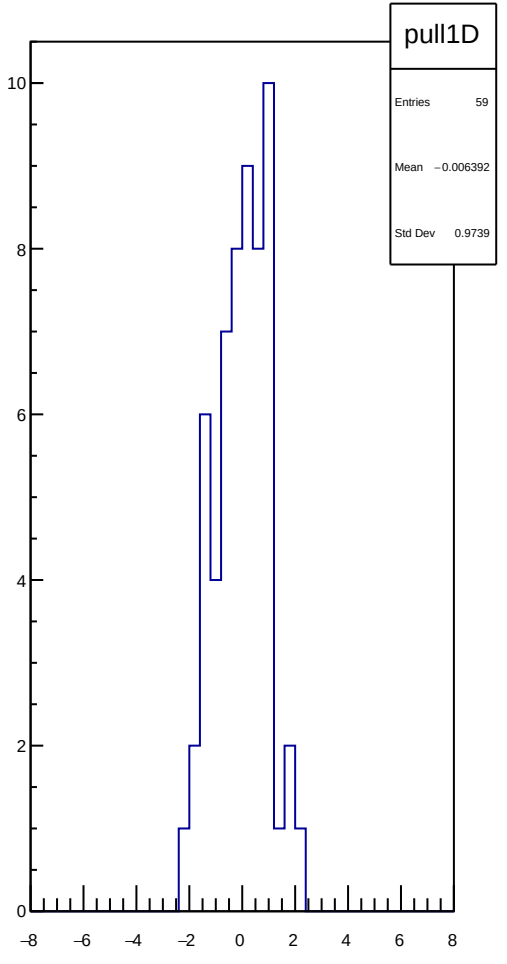

diff_bpm0r03X_rms vs run
χ² / ndf 841.5 / 58
p0 5.152e+04 ± 48.43
56000
55000
54000
53000
52000
51000
50000
49000
48000

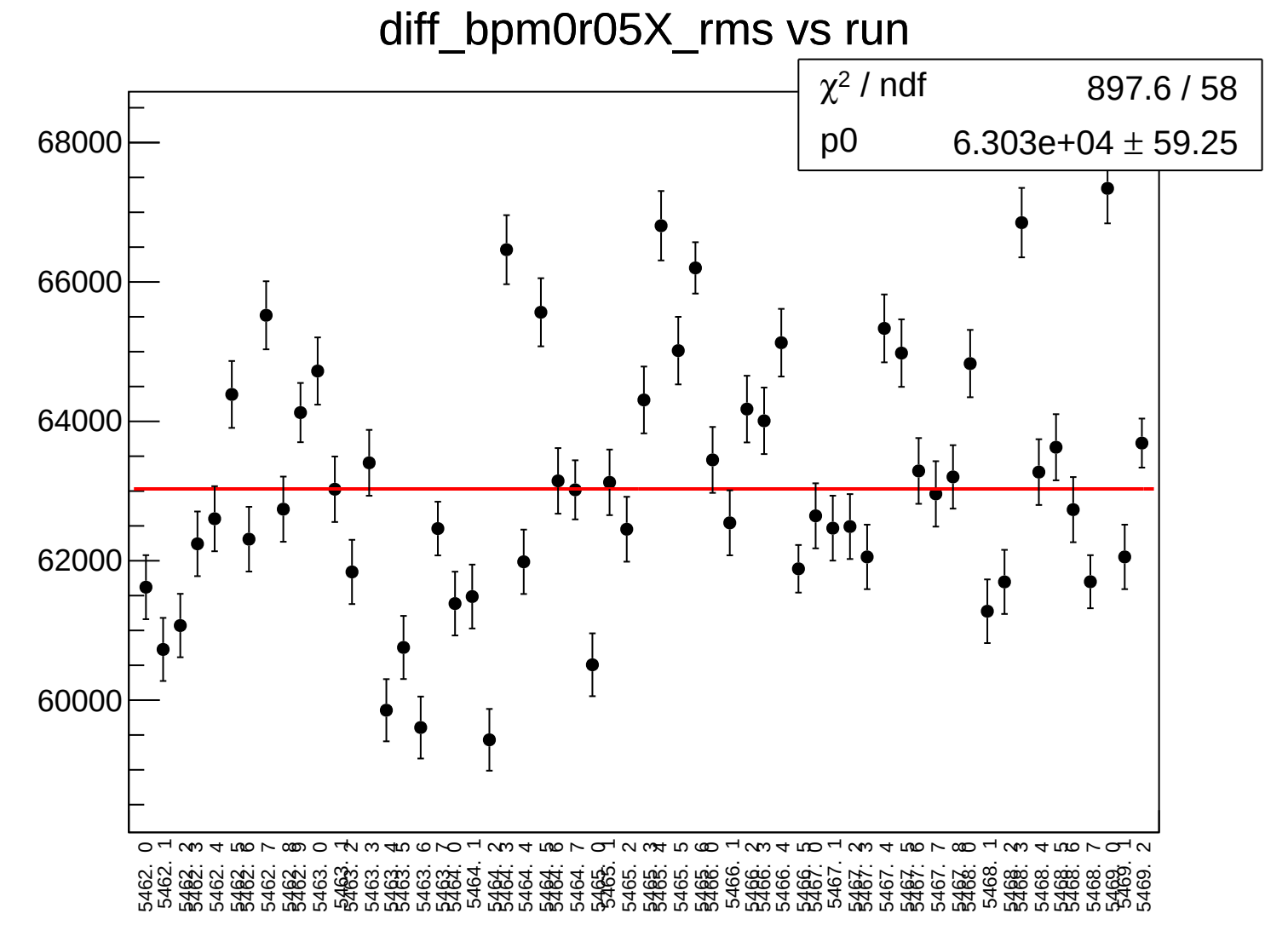

diff_bpm0r03Y_mean vs run
χ² / ndf 61.45 / 58
p0 5.539 ± 1.94
pull
Entries 59
Mean −109.8
Std Dev 156.7

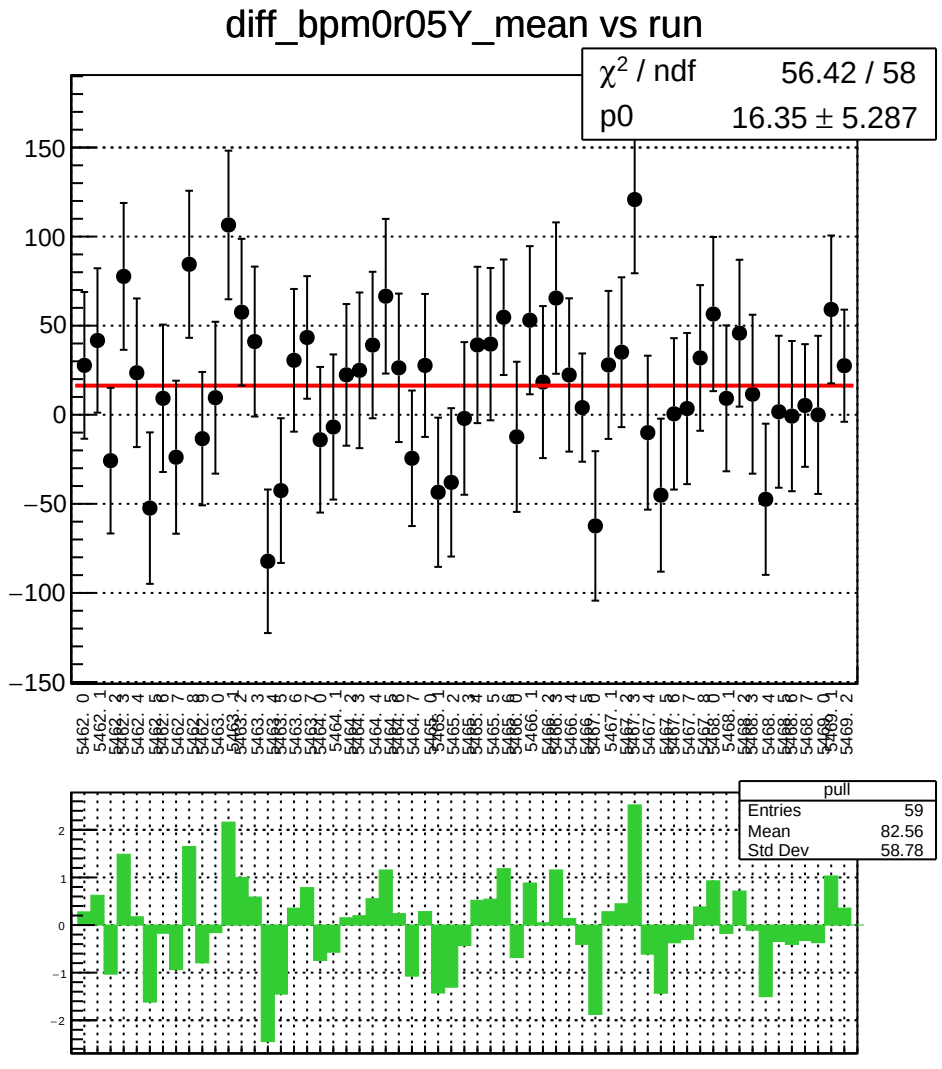

pull1D
Entries 59
Mean 0.005717
Std Dev 1.021

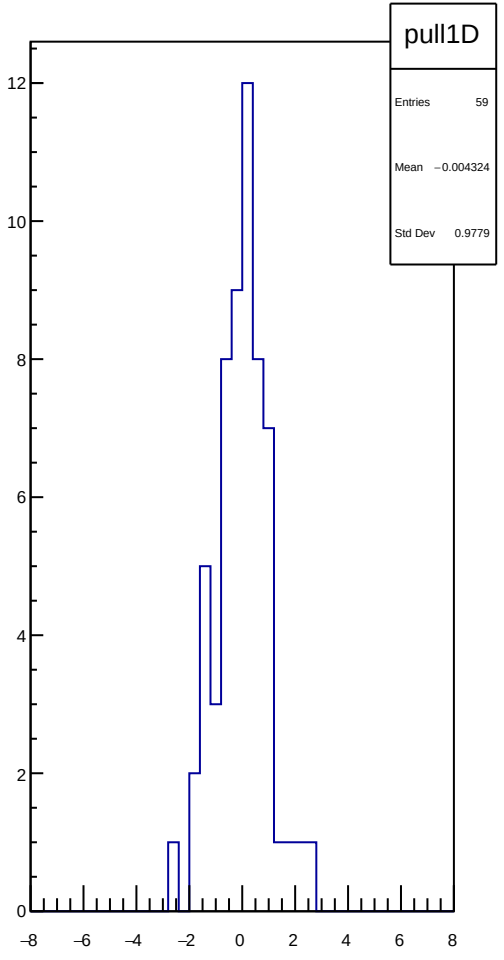

diff_bpm0r03Y_rms vs run
χ² / ndf 310.1 / 58
p0 1460 ± 1.372
1540
1520
1500
1480
1460
1440
1420
1400

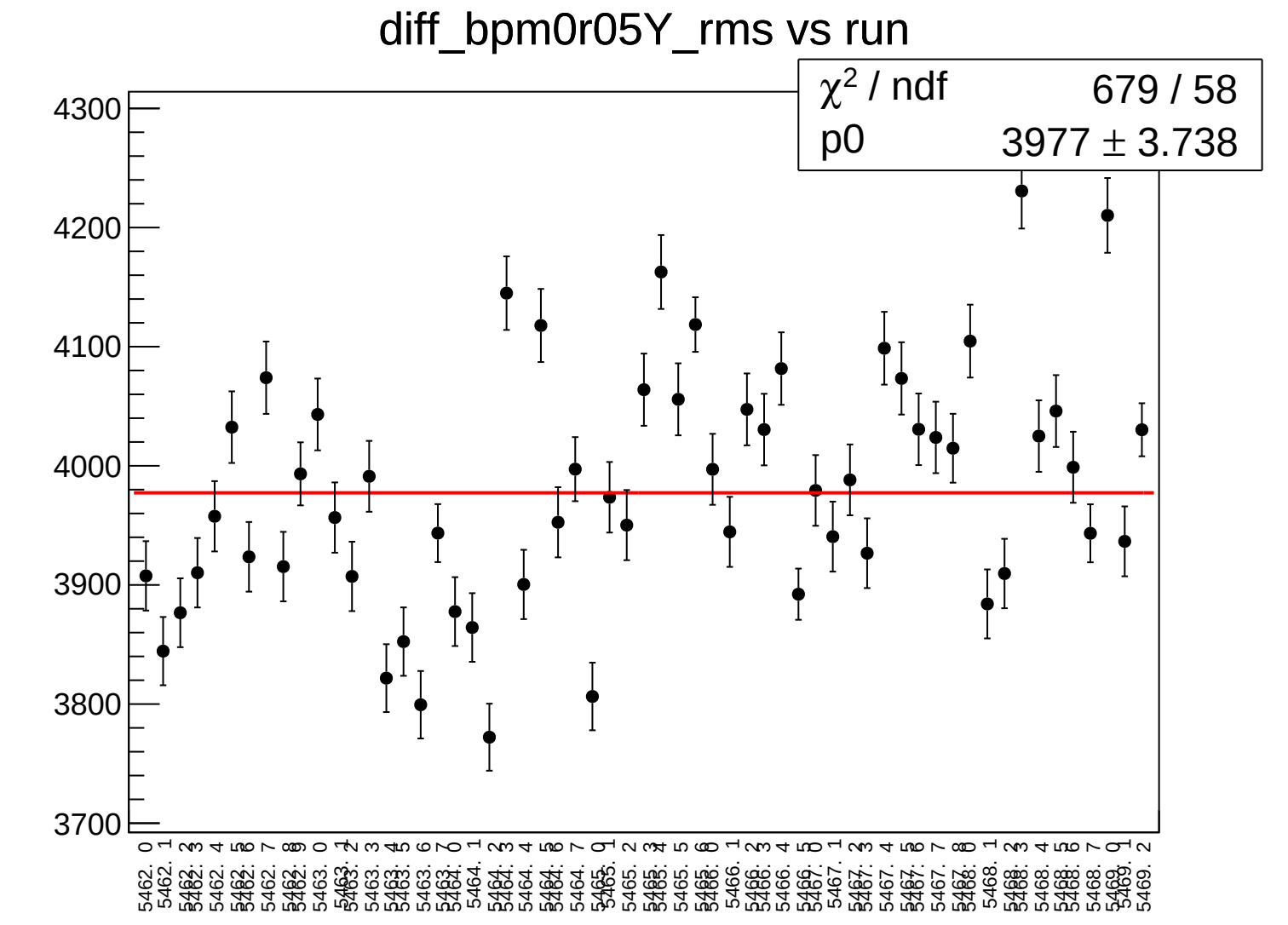

diff_bpm0r05X_mean vs run
χ² / ndf 55.97 / 58
p0 42.2 ± 83.79
pull
Entries 59
Mean 146.5
Std Dev 131.8

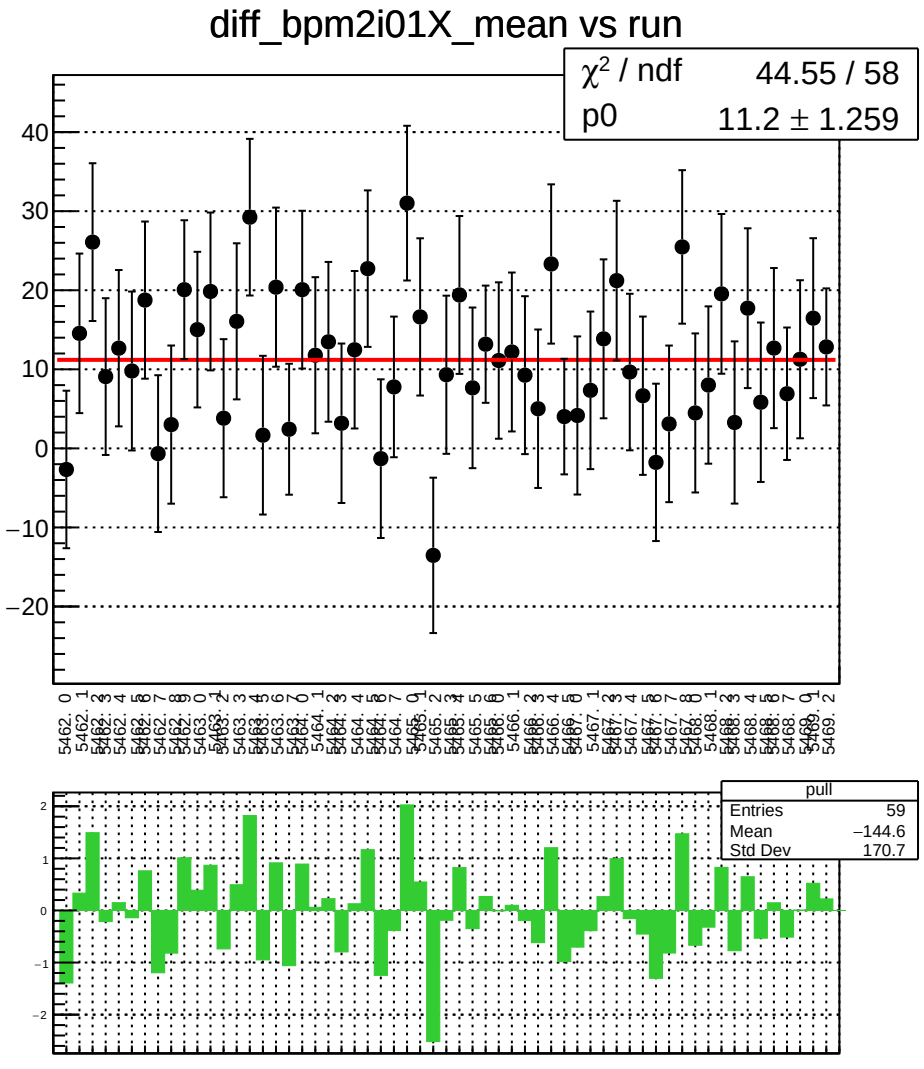

pull1D
Entries 59
Mean −0.006392
Std Dev 0.9739

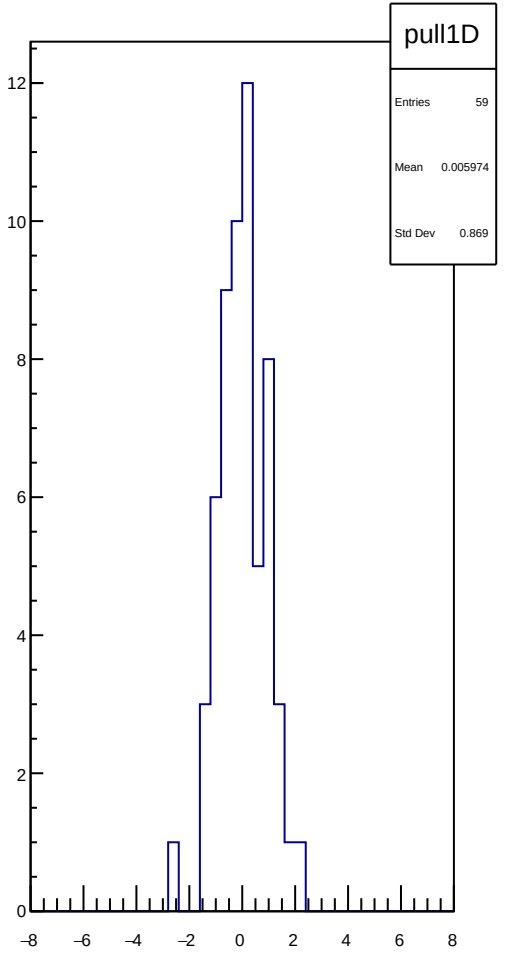

diff_bpm0r05X_rms vs run
χ² / ndf 897.6 / 58
p0 6.303e+04 ± 59.25
68000
66000
64000
62000
60000
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5463. 8
5463. 9
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5464. 8
5464. 9
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5465. 7
5465. 8
5465. 9
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5466. 7
5466. 8
5466. 9
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5467. 9
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5468. 8
5468. 9
5469. 0
5469. 1
5469. 2

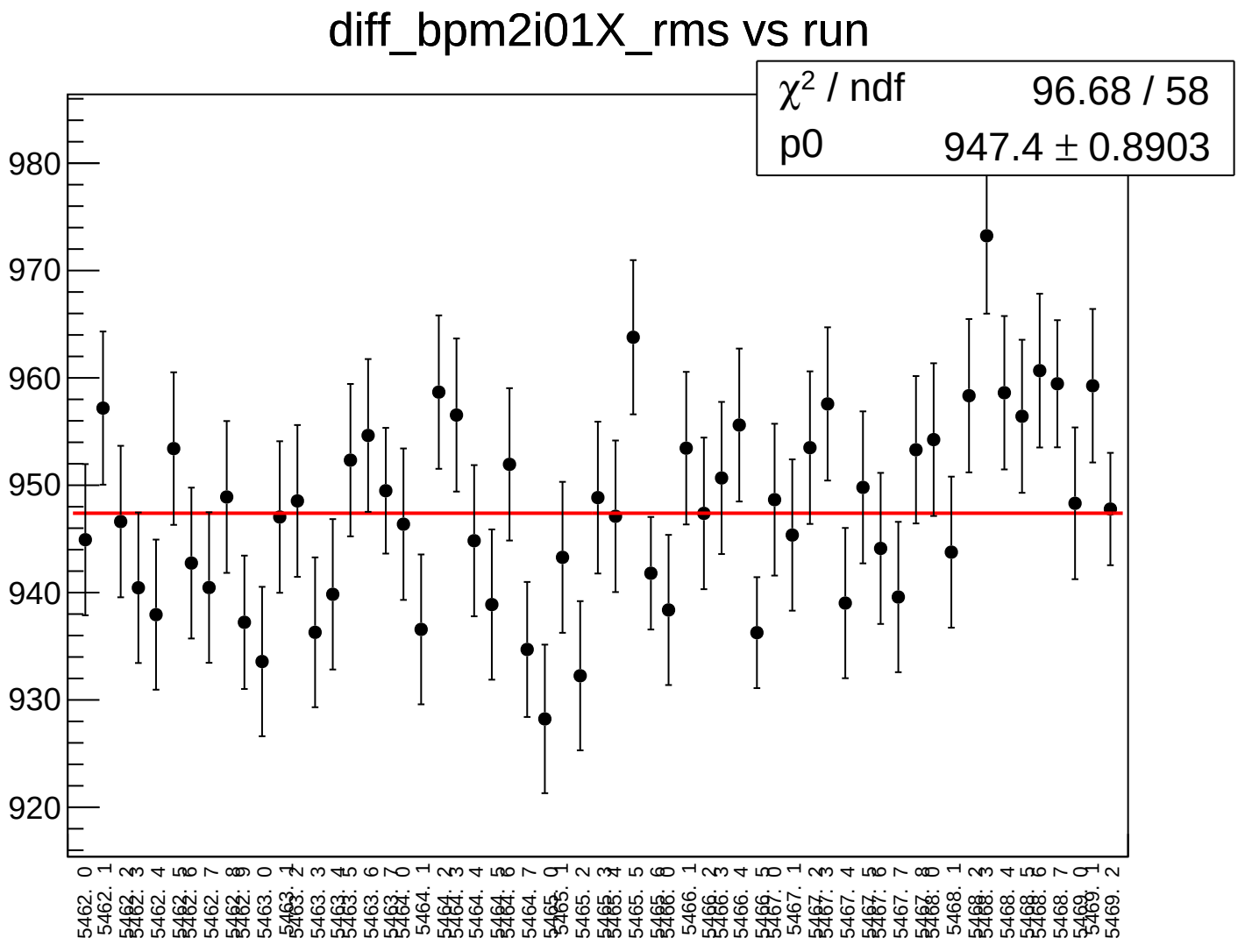

diff_bpm0r05Y_mean vs run
χ² / ndf 56.42 / 58
p0 16.35 ± 5.287
pull
Entries 59
Mean 82.56
Std Dev 58.78

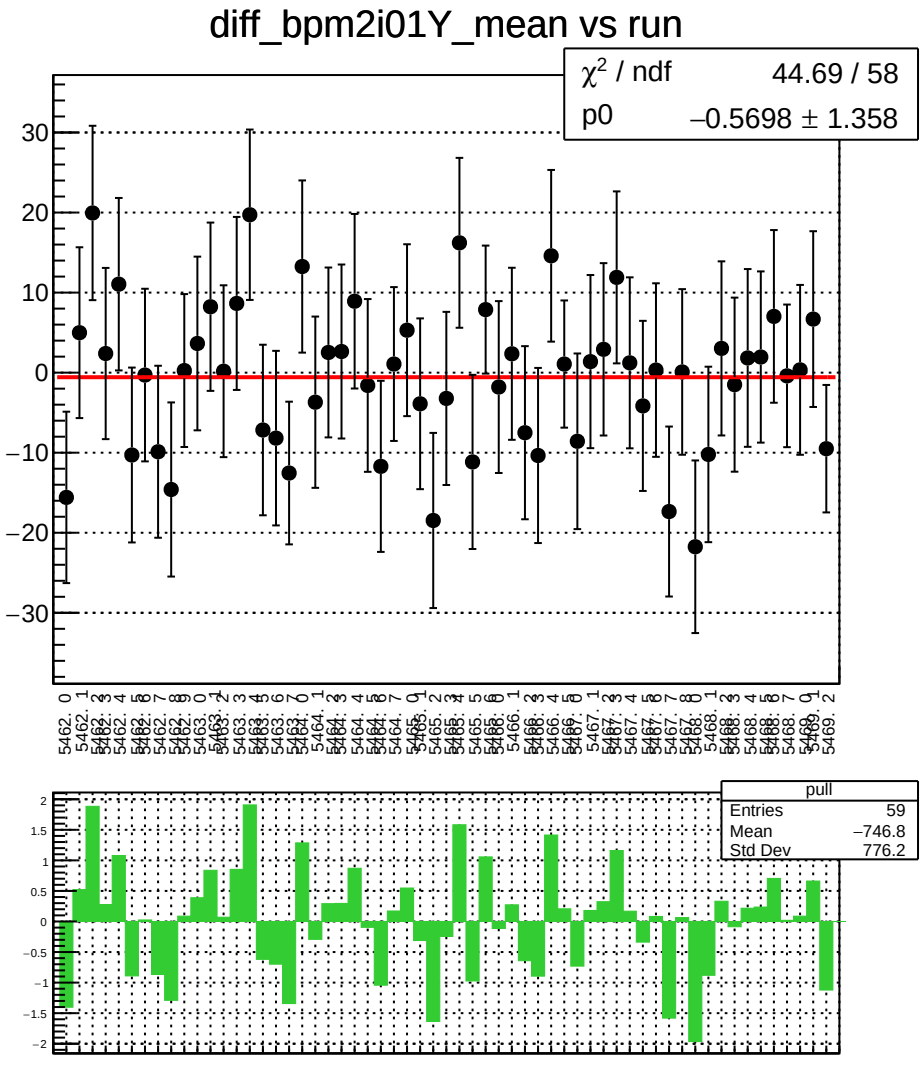

pull1D
Entries 59
Mean −0.004324
Std Dev 0.9779

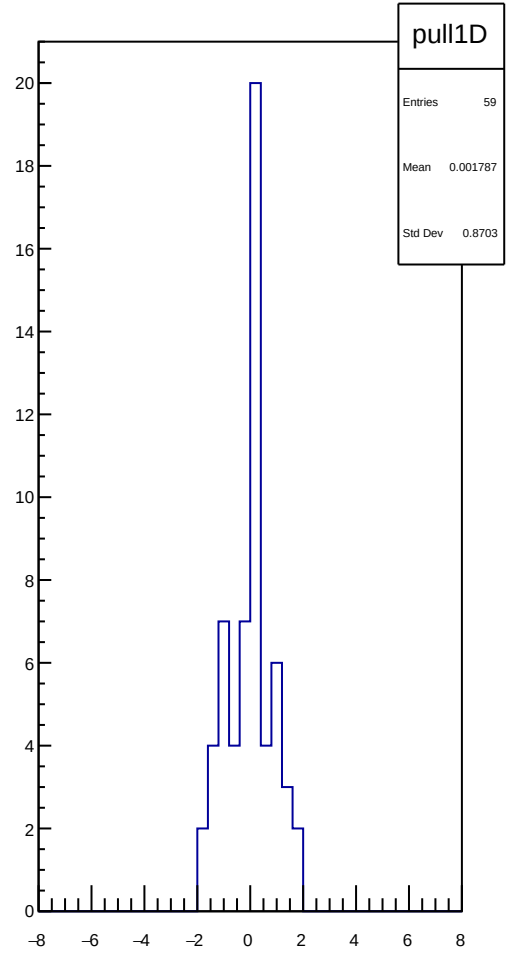

diff_bpm0r05Y_rms vs run
χ² / ndf 679 / 58
p0 3977 ± 3.738
4300
4200
4100
4000
3900
3800
3700
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

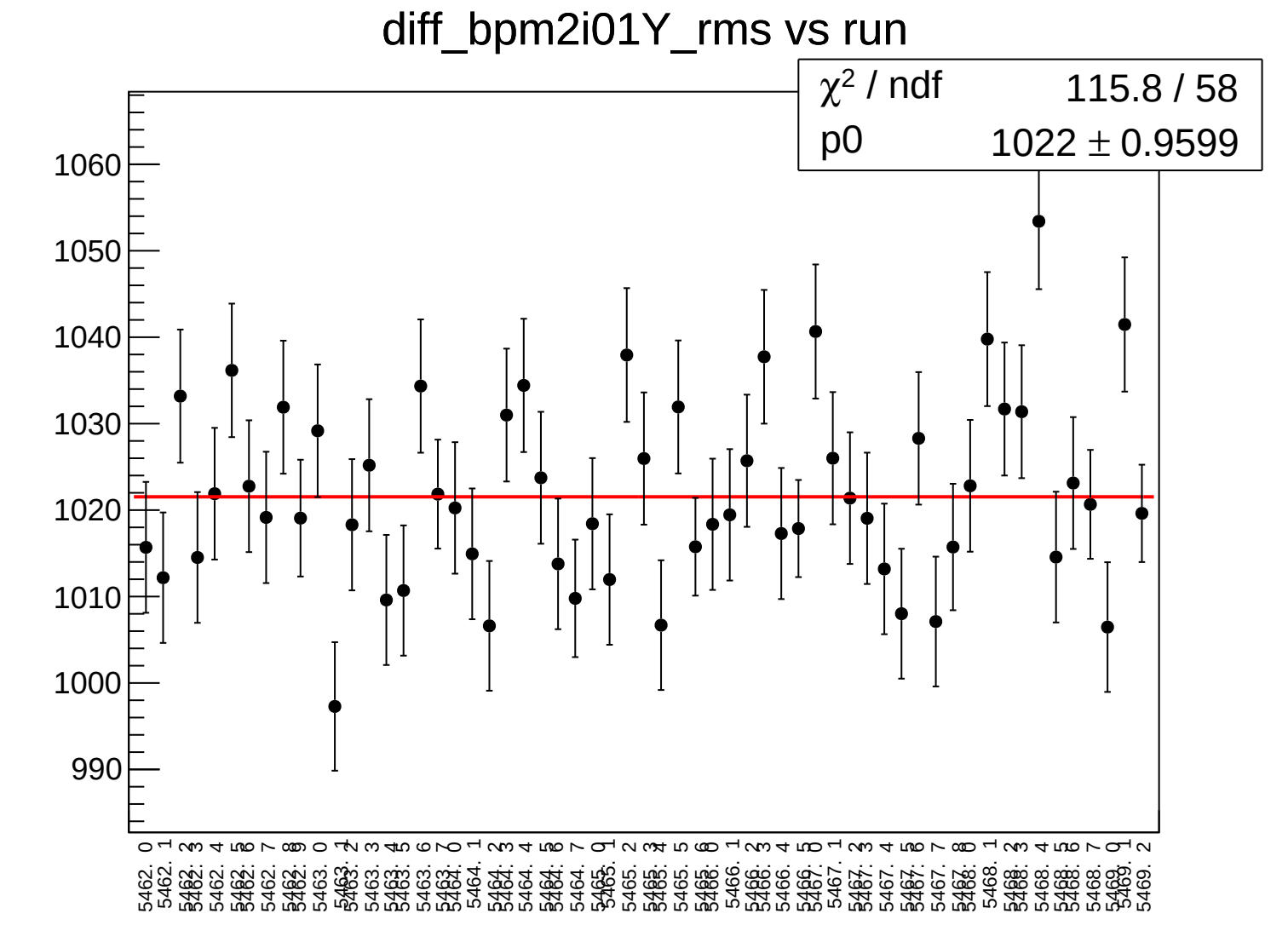

diff_bpm2i01X_mean vs run
χ² / ndf 44.55 / 58
p0 11.2 ± 1.259
pull
Entries 59
Mean −144.6
Std Dev 170.7


pull1D
Entries 59
Mean 0.005974
Std Dev 0.869


diff_bpm2i01X_rms vs run
χ^2 / ndf 96.68 / 58
p0 947.4 ± 0.8903
980
970
960
950
940
930
920


diff_bpm2i01Y_mean vs run
χ^2 / ndf 44.69 / 58
p0 −0.5698 ± 1.358
pull
Entries 59
Mean −746.8
Std Dev 776.2


pull1D
Entries 59
Mean 0.001787
Std Dev 0.8703


diff_bpm2i01Y_rms vs run
χ^2 / ndf 115.8 / 58
p0 1022 ± 0.9599
1060
1050
1040
1030
1020
1010
1000
990
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
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5467. 6
5467. 7
5467. 8
5468. 0
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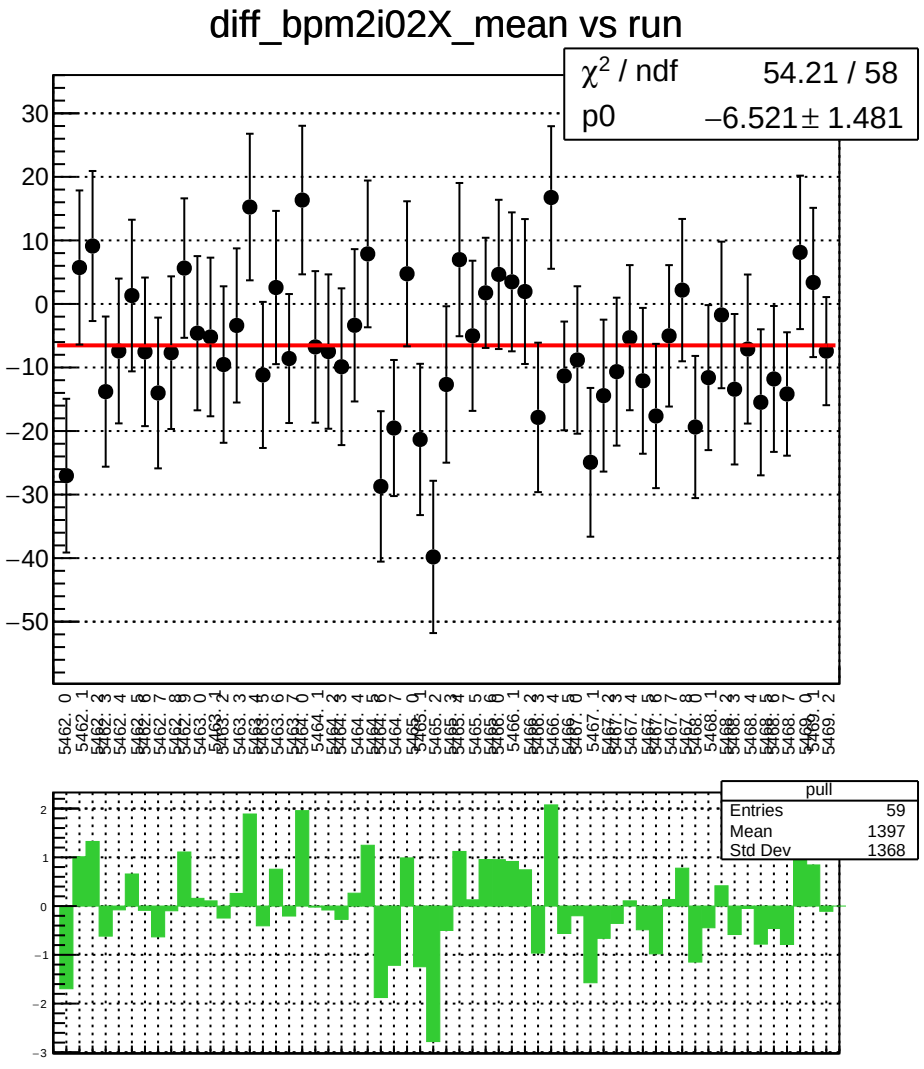
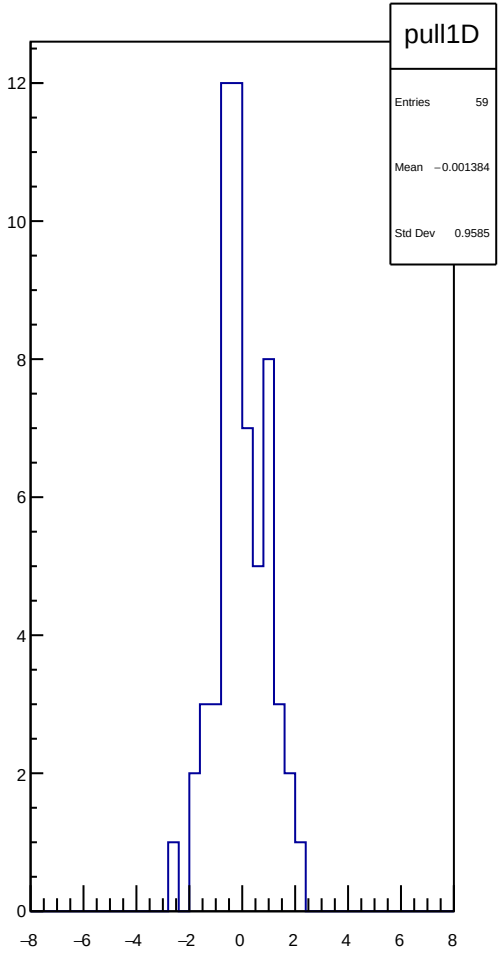
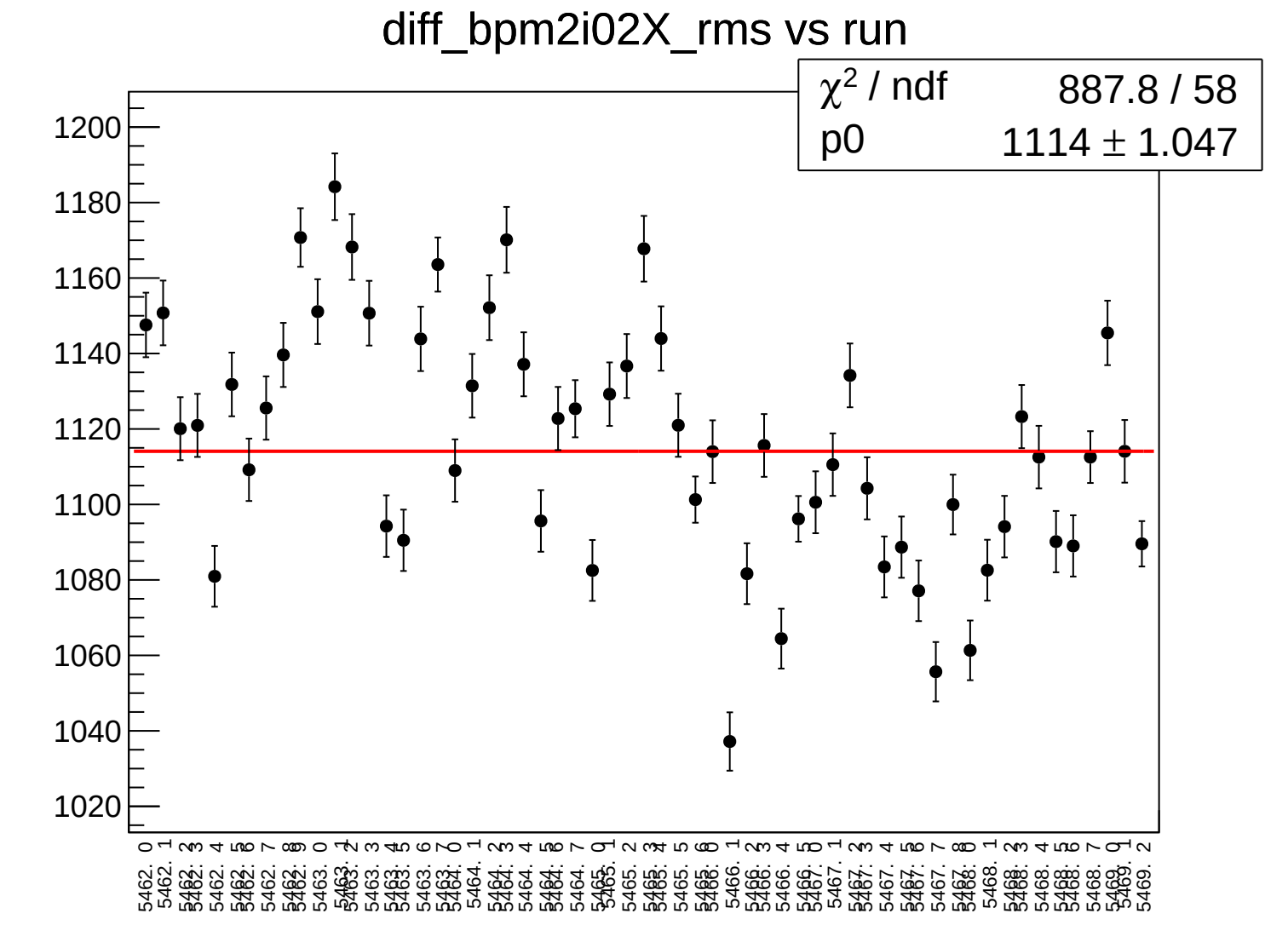
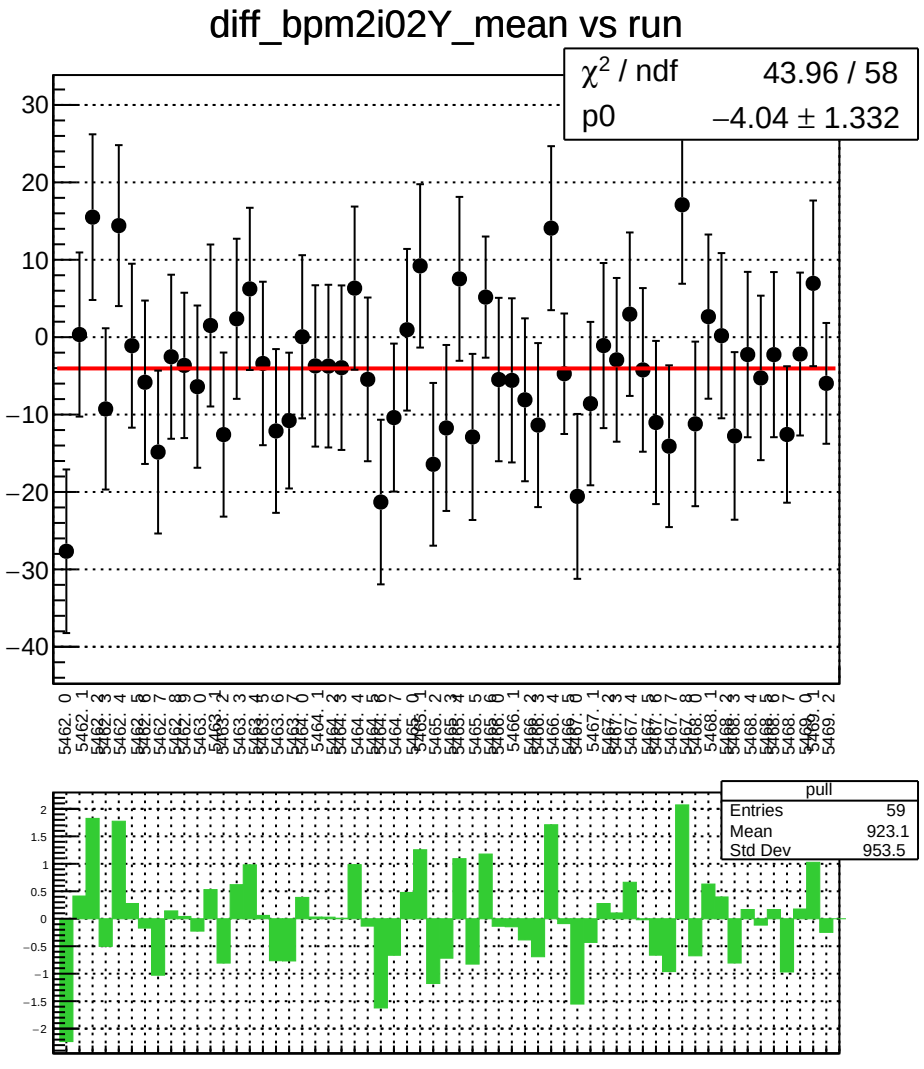
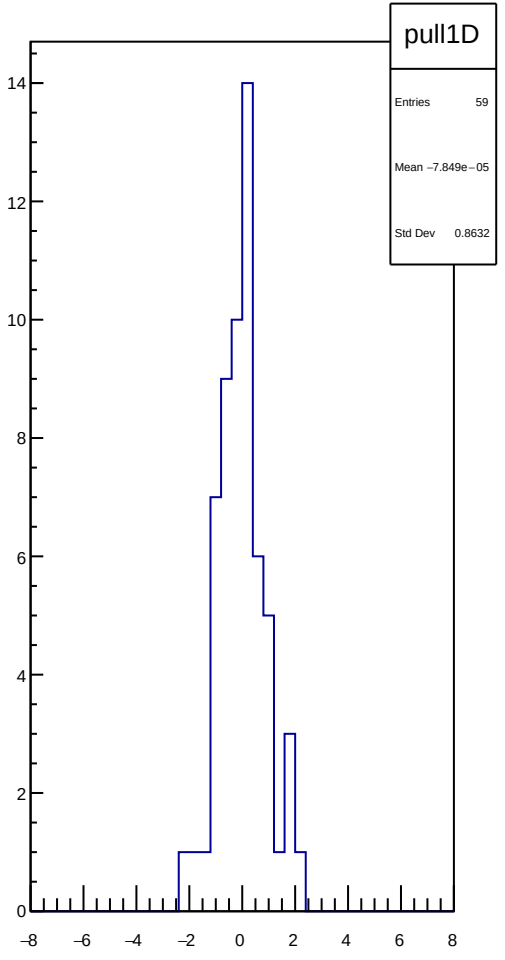
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

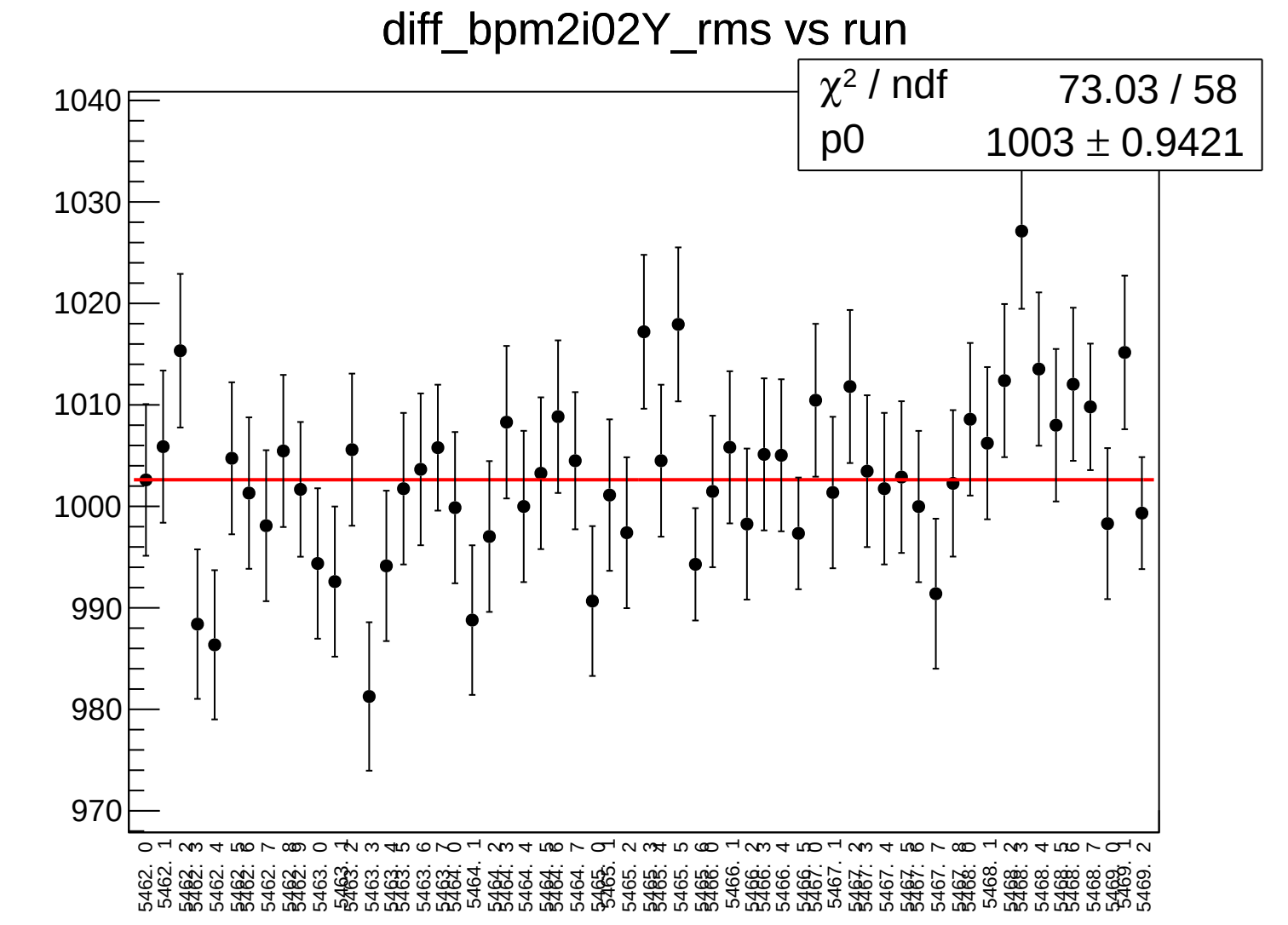

diff_bpm2i02X_mean vs run
χ² / ndf 54.21 / 58
p0 −6.521 ± 1.481
pull
Entries 59
Mean 1397
Std Dev 1368

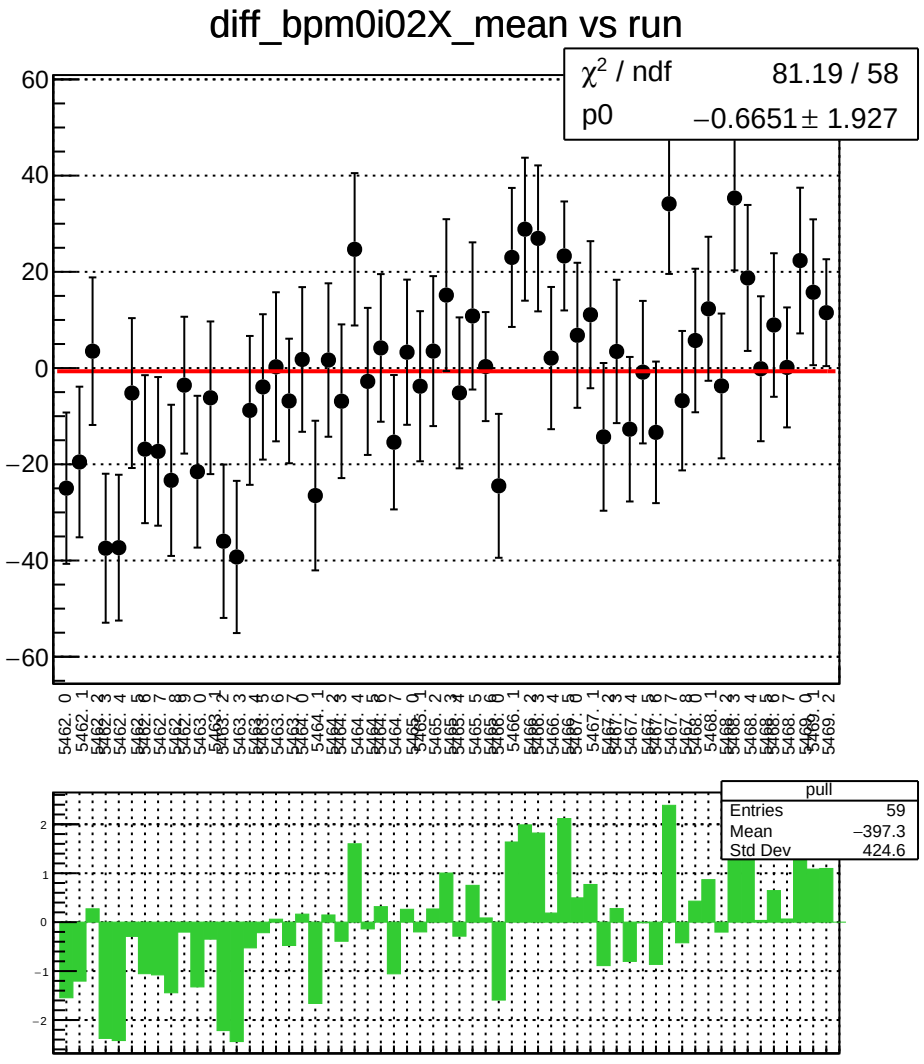

pull1D
Entries 59
Mean −0.001384
Std Dev 0.9585

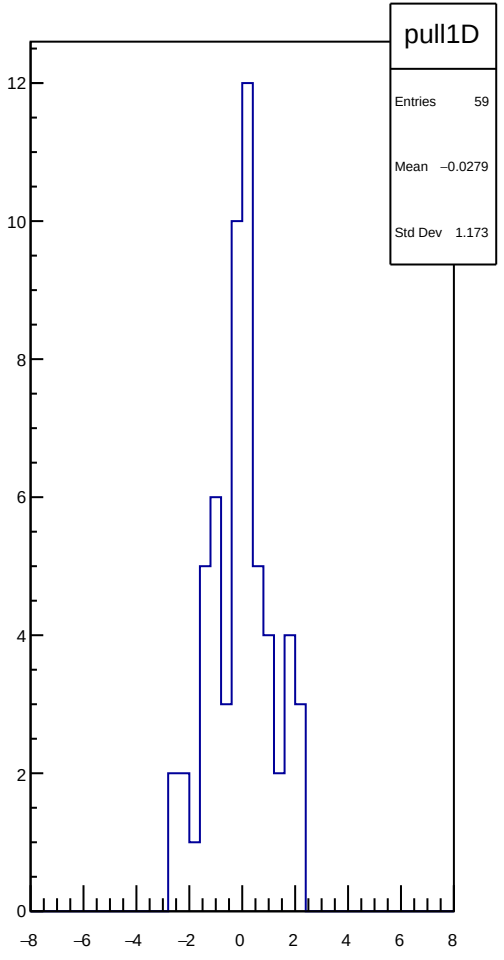

diff_bpm2i02X_rms vs run
χ² / ndf 887.8 / 58
p0 1114 ± 1.047
1200
1180
1160
1140
1120
1100
1080
1060
1040
1020

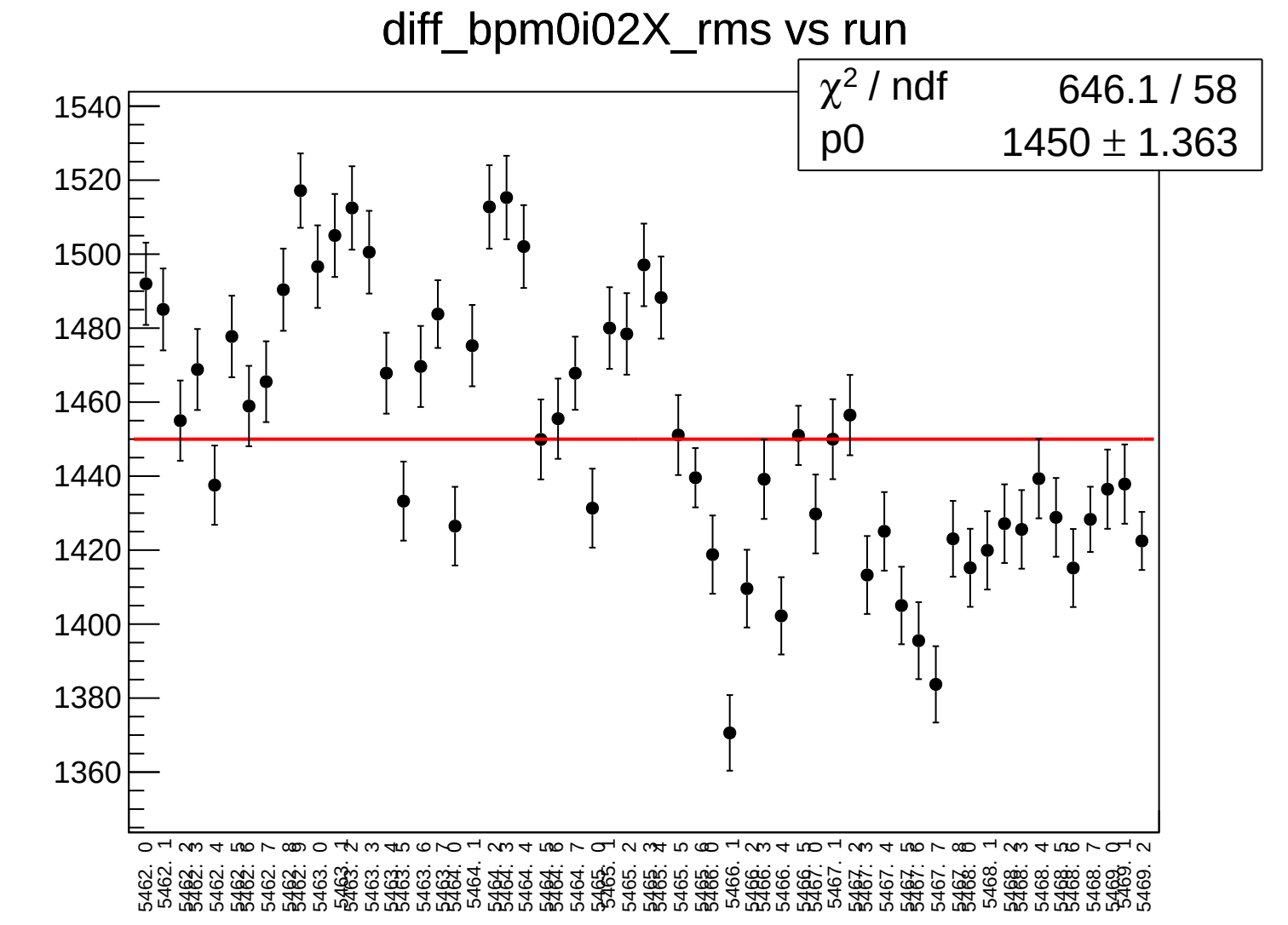

diff_bpm2i02Y_mean vs run
χ^2 / ndf 43.96 / 58
p0 −4.04 ± 1.332
pull
Entries 59
Mean 923.1
Std Dev 953.5

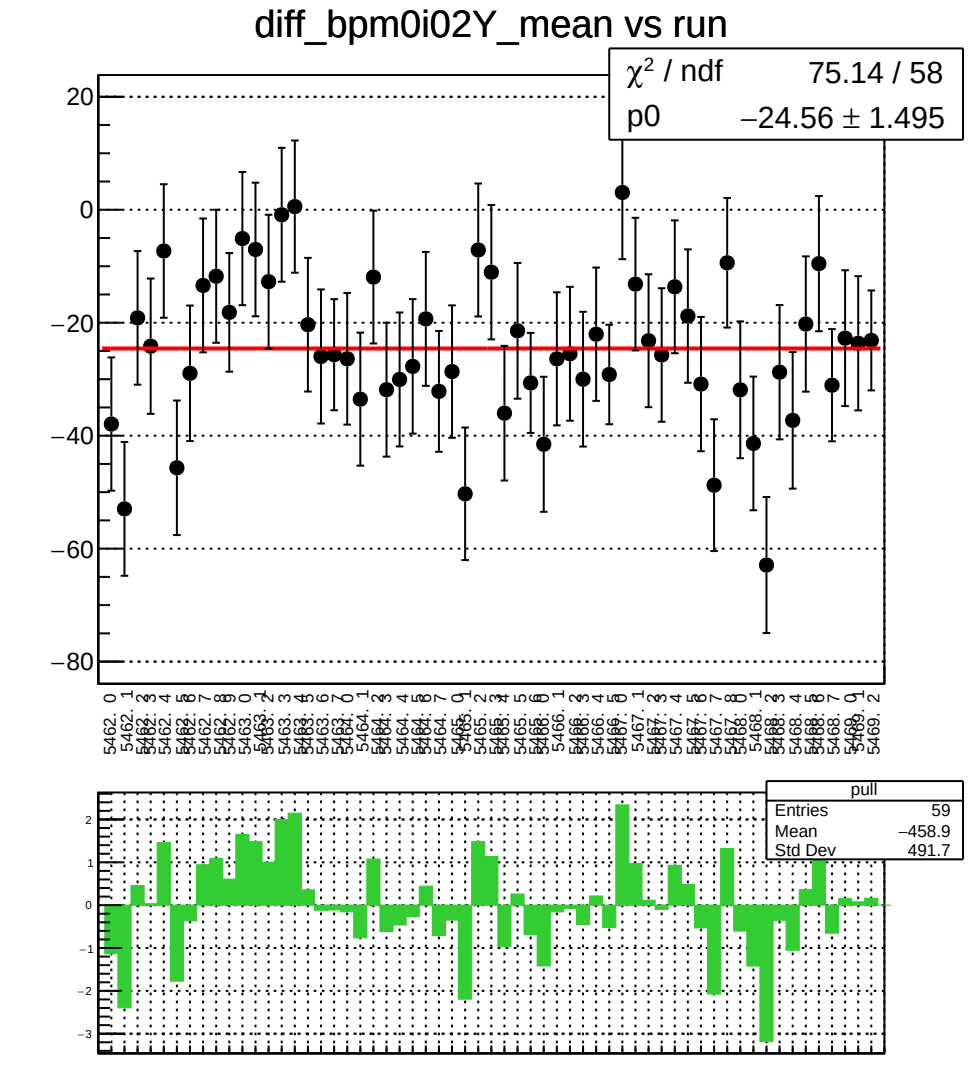

pull1D
Entries 59
Mean −7.849e−05
Std Dev 0.8632

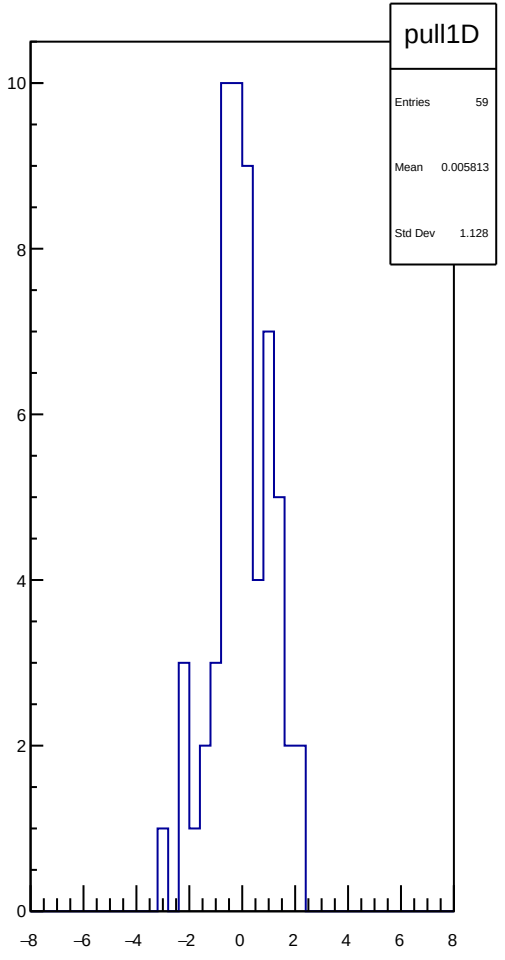

diff_bpm2i02Y_rms vs run
χ² / ndf 73.03 / 58
p0 1003 ± 0.9421
1040
1030
1020
1010
1000
990
980
970

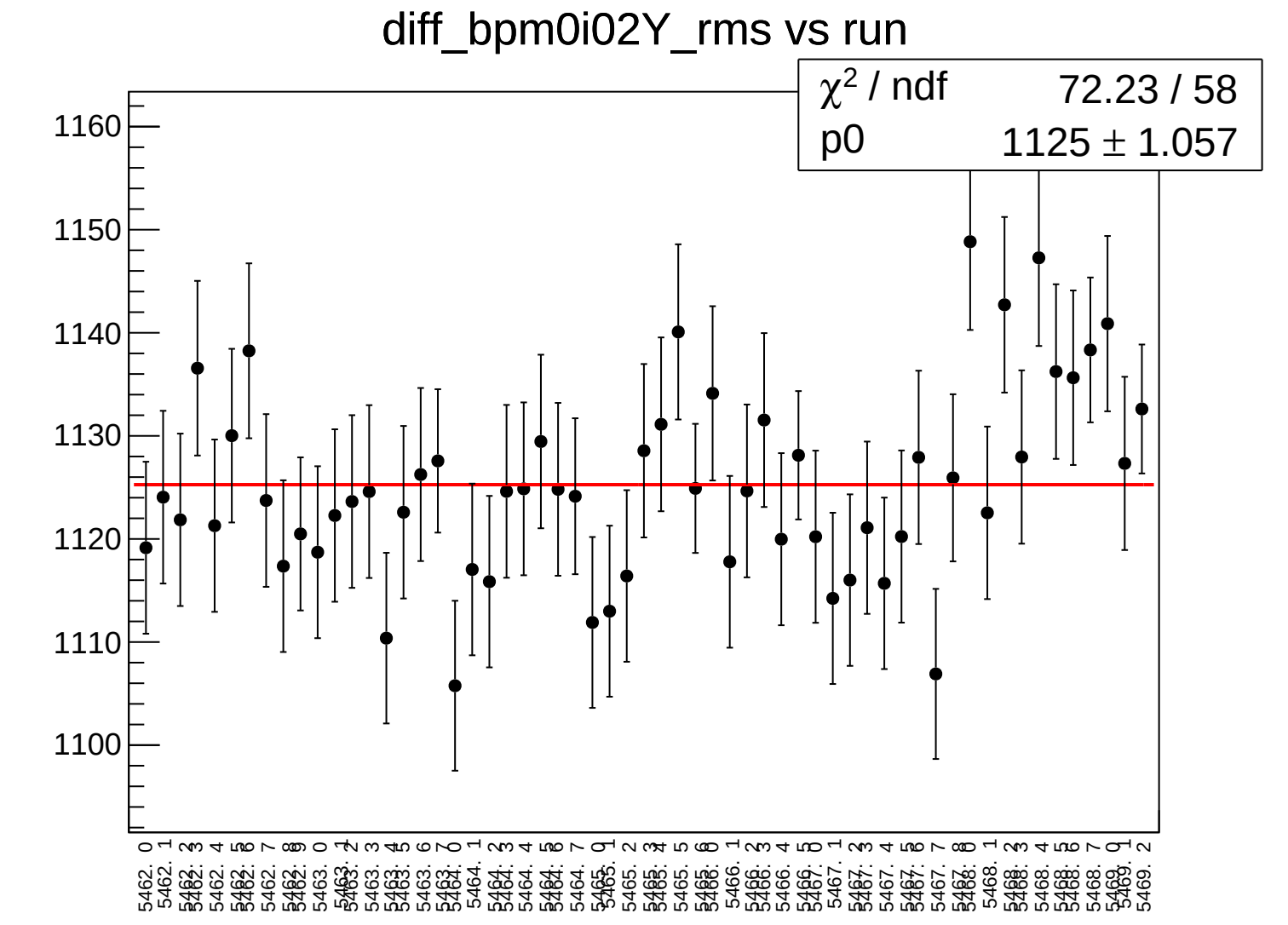

diff_bpm0i02X_mean vs run
χ² / ndf 81.19 / 58
p0 −0.6651 ± 1.927
pull
Entries 59
Mean −397.3
Std Dev 424.6

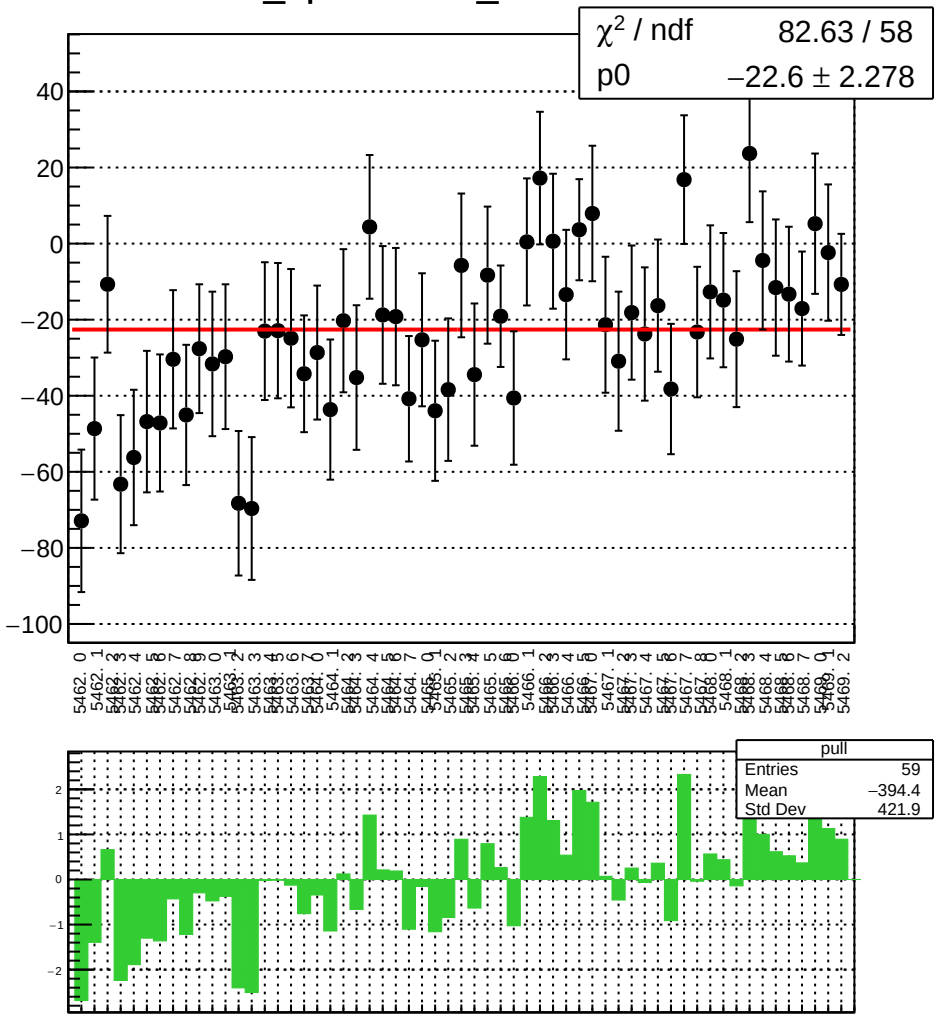

pull1D
Entries 59
Mean −0.0279
Std Dev 1.173

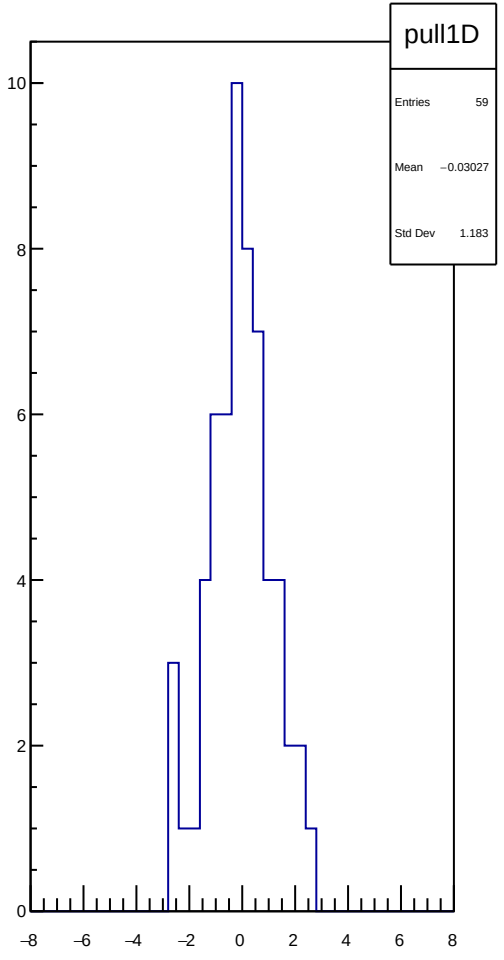

diff_bpm0i02X_rms vs run
χ^2 / ndf 646.1 / 58
p0 1450 ± 1.363
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

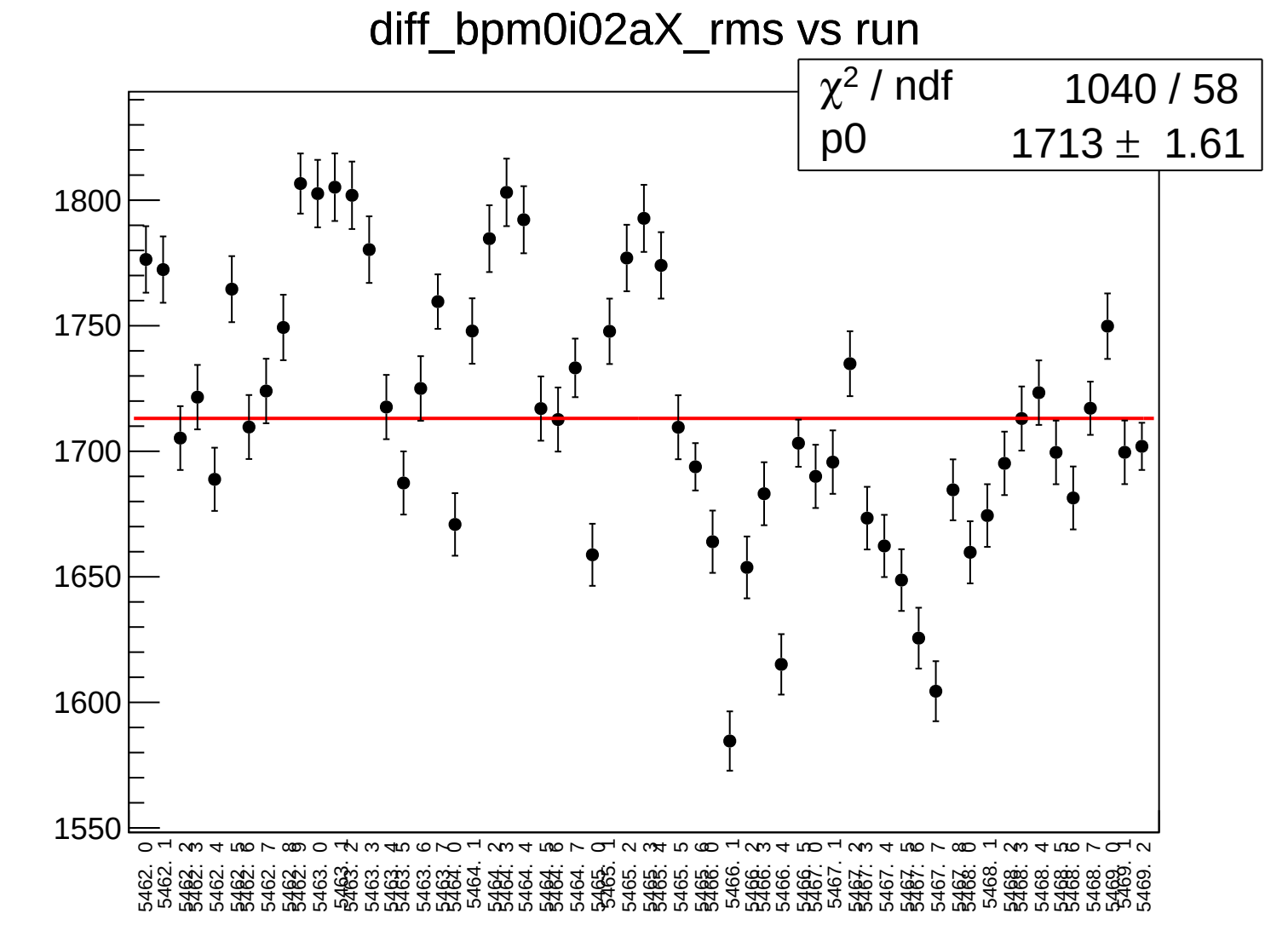

diff_bpm0i02Y_mean vs run
χ² / ndf 75.14 / 58
p0 −24.56 ± 1.495
pull
Entries 59
Mean −458.9
Std Dev 491.7

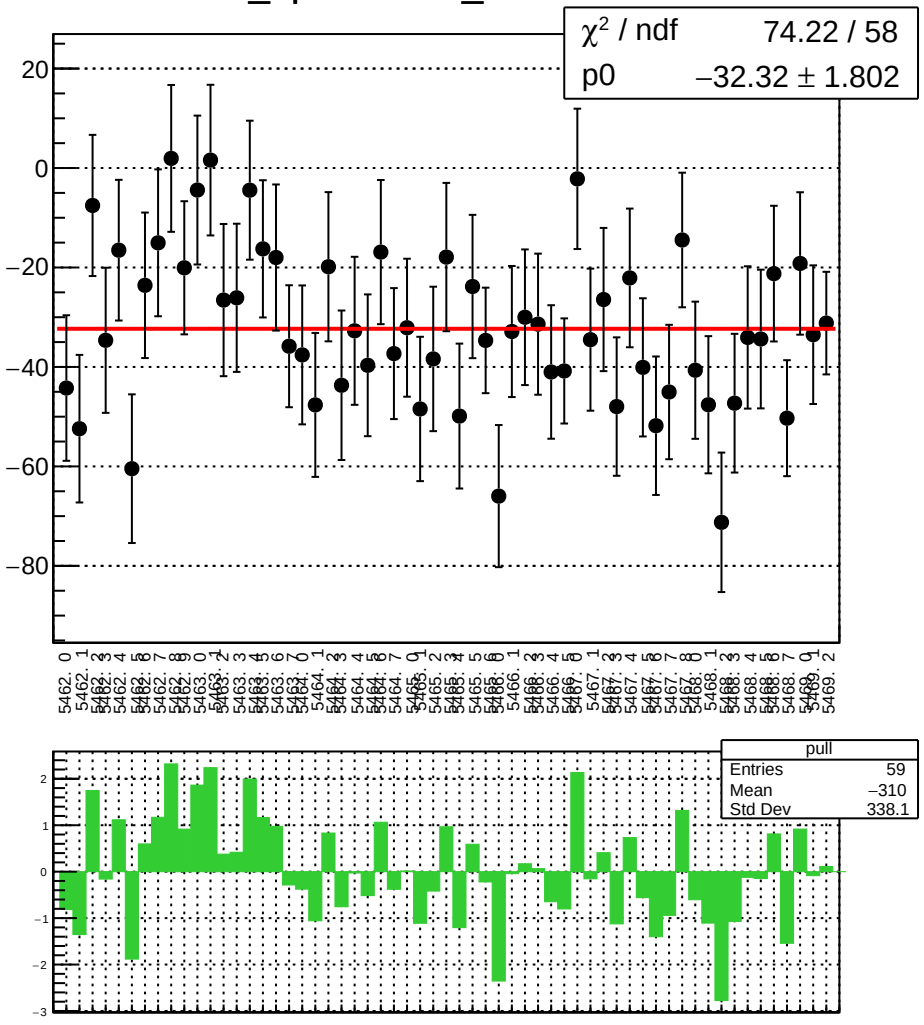

pull1D
Entries 59
Mean 0.005813
Std Dev 1.128

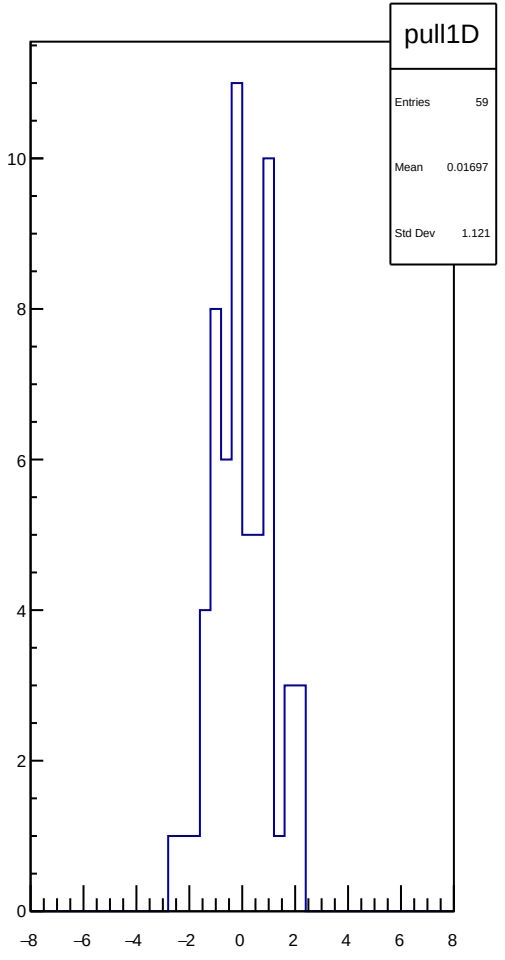

diff_bpm0i02Y_rms vs run
χ^2 / ndf 72.23 / 58
p0 1125 ± 1.057
1160
1150
1140
1130
1120
1110
1100

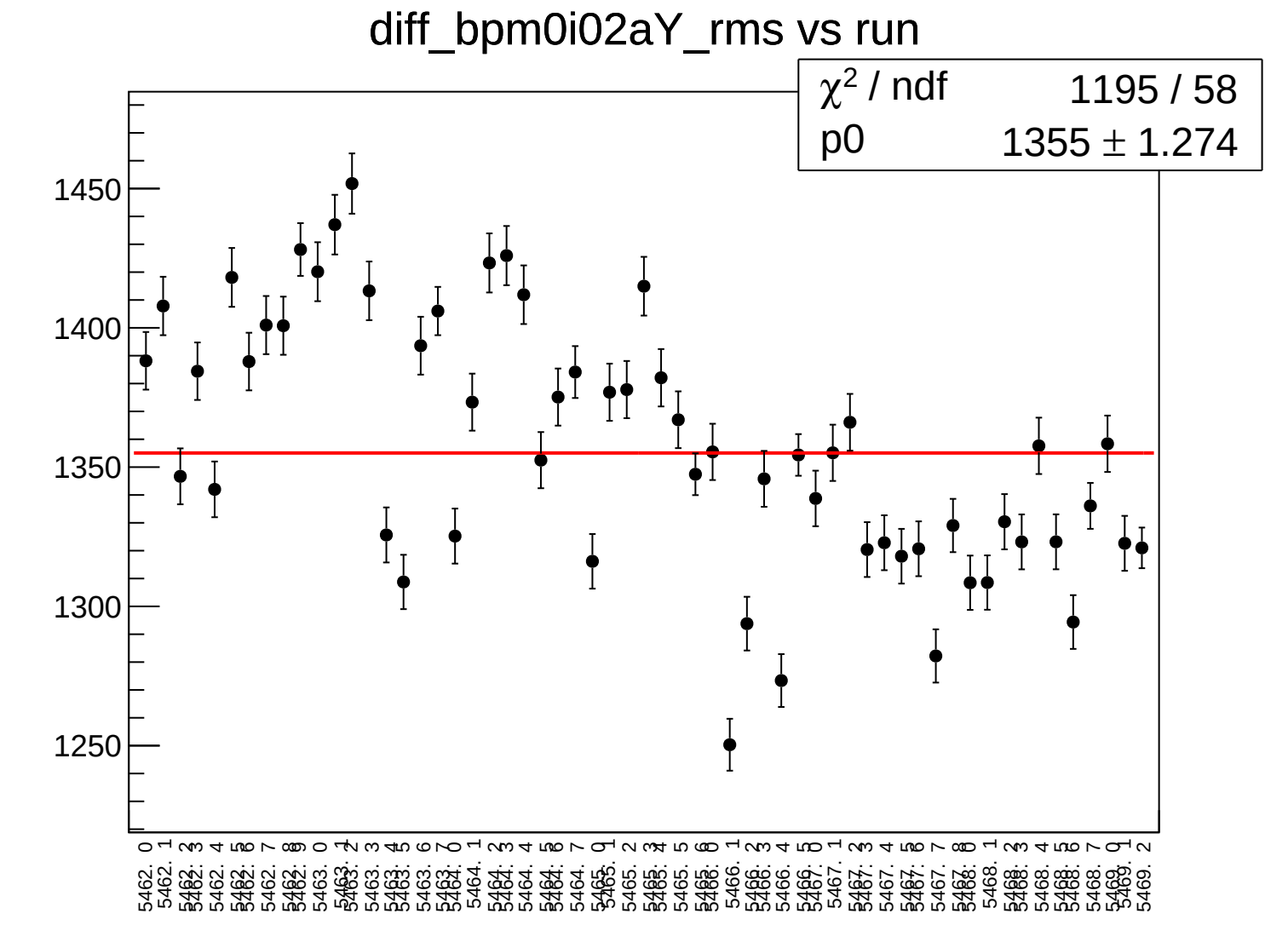

diff_bpm0i02aX_mean vs run
χ^2 / ndf 82.63 / 58
p0 −22.6 ± 2.278
pull
Entries 59
Mean −394.4
Std Dev 421.9

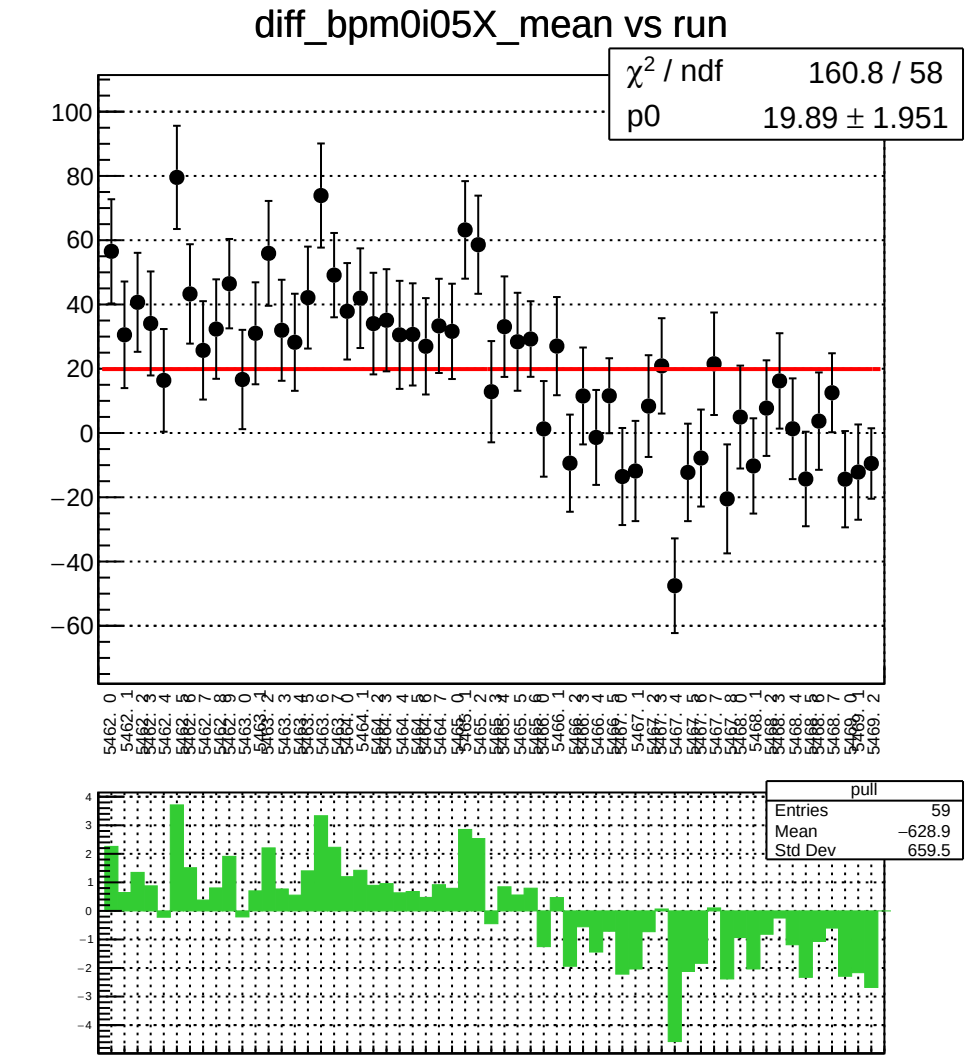

pull1D
Entries 59
Mean −0.03027
Std Dev 1.183

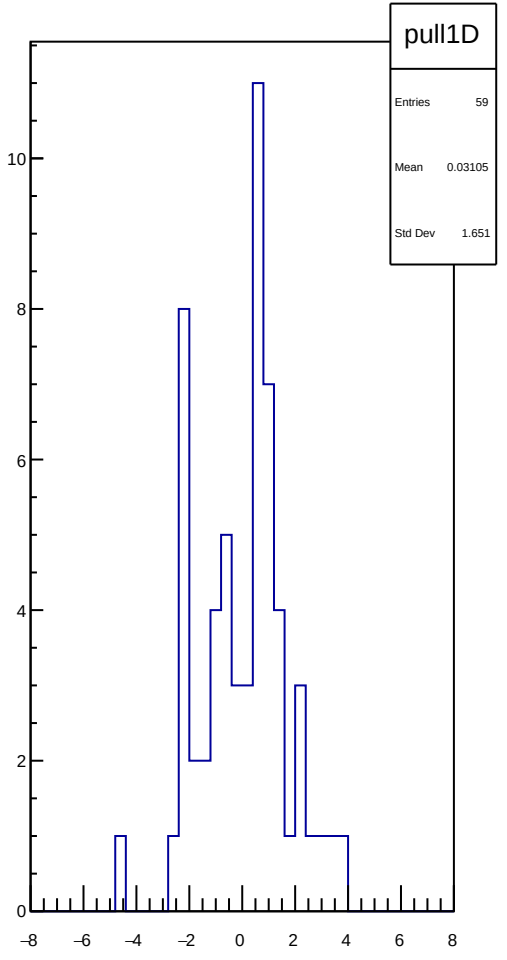

diff_bpm0i02aX_rms vs run
χ² / ndf 1040 / 58
p0 1713 ± 1.61
1800
1750
1700
1650
1600
1550

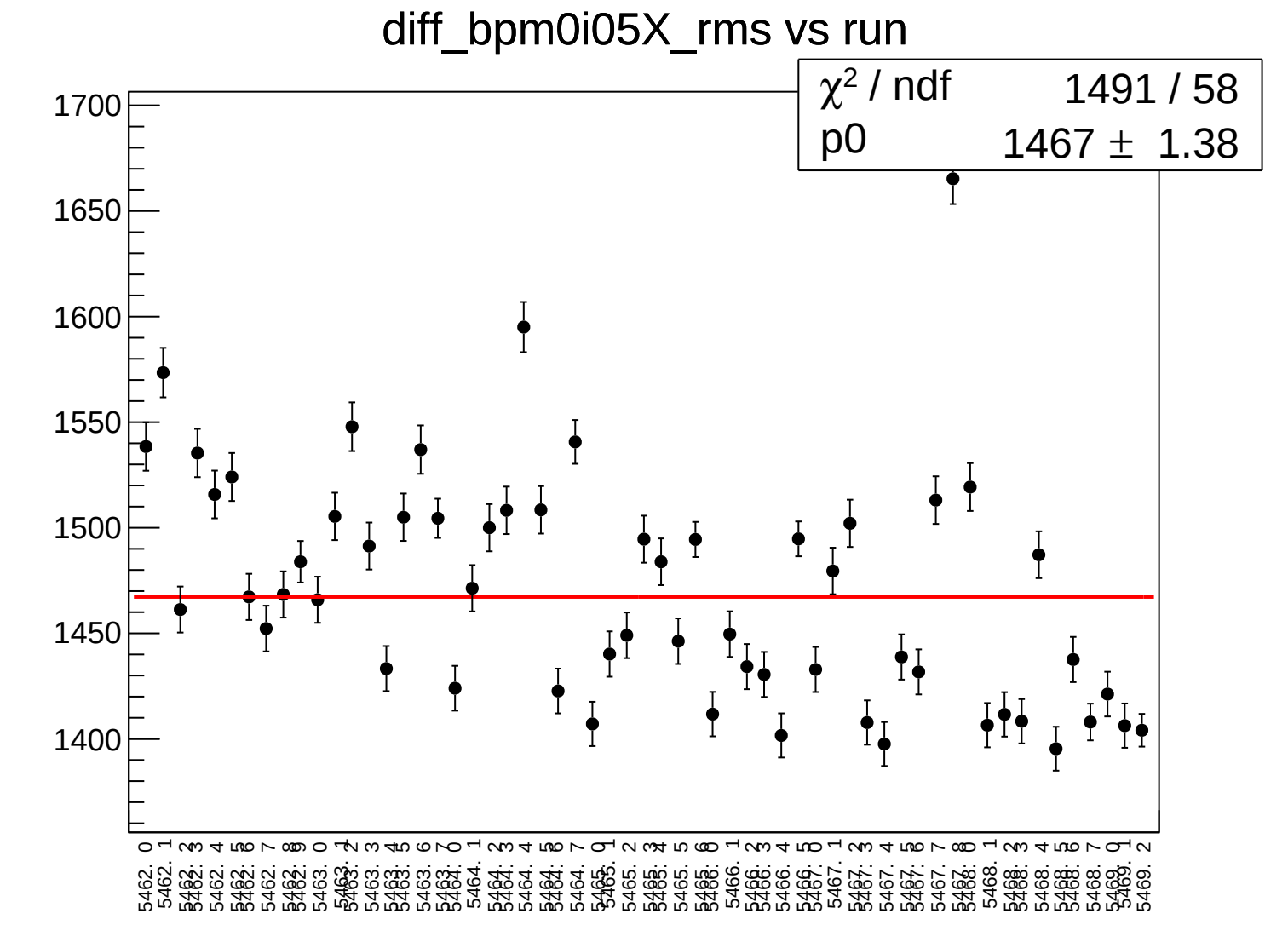

diff_bpm0i02aY_mean vs run
χ² / ndf 74.22 / 58
p0 −32.32 ± 1.802
pull
Entries 59
Mean −310
Std Dev 338.1

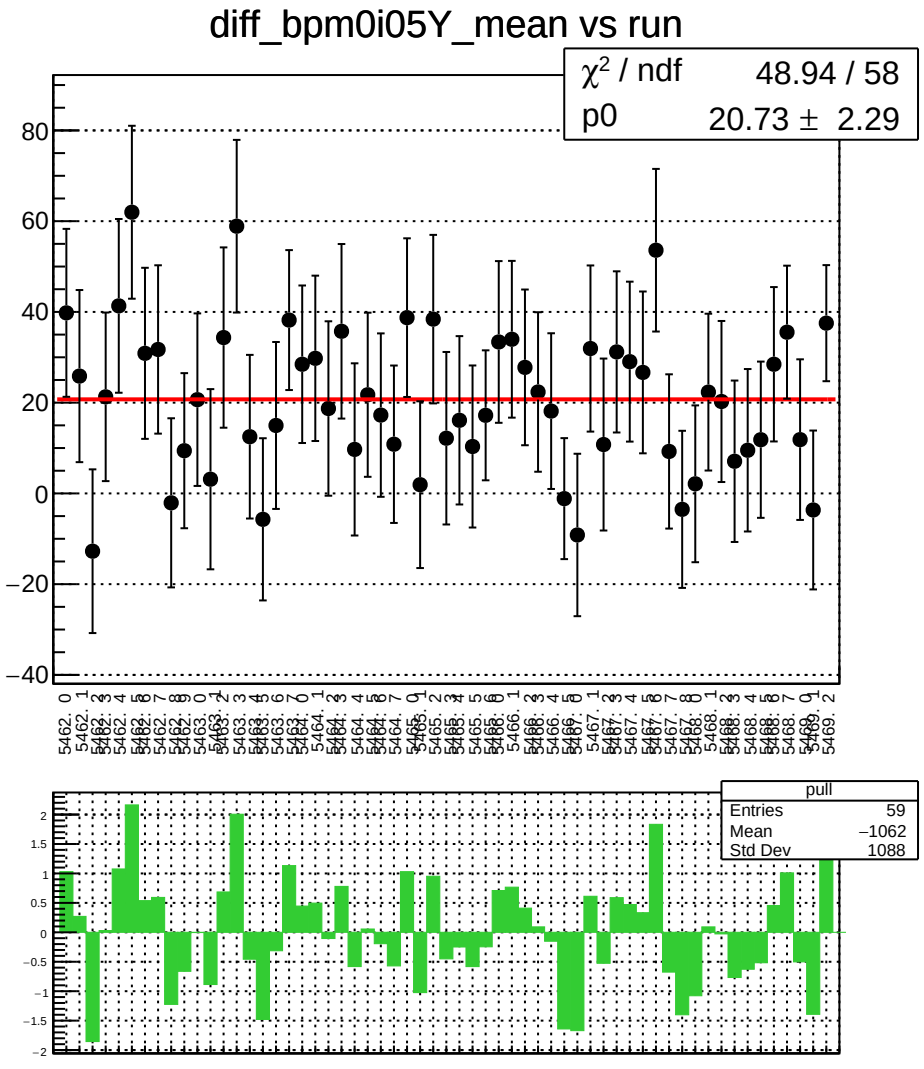

pull1D
Entries 59
Mean 0.01697
Std Dev 1.121

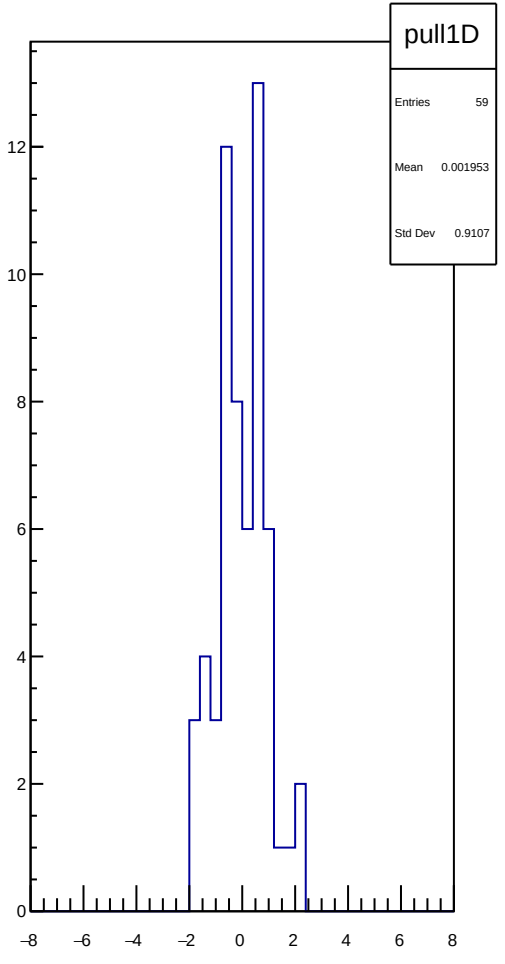

diff_bpm0i02aY_rms vs run
χ² / ndf 1195 / 58
p0 1355 ± 1.274
1450
1400
1350
1300
1250

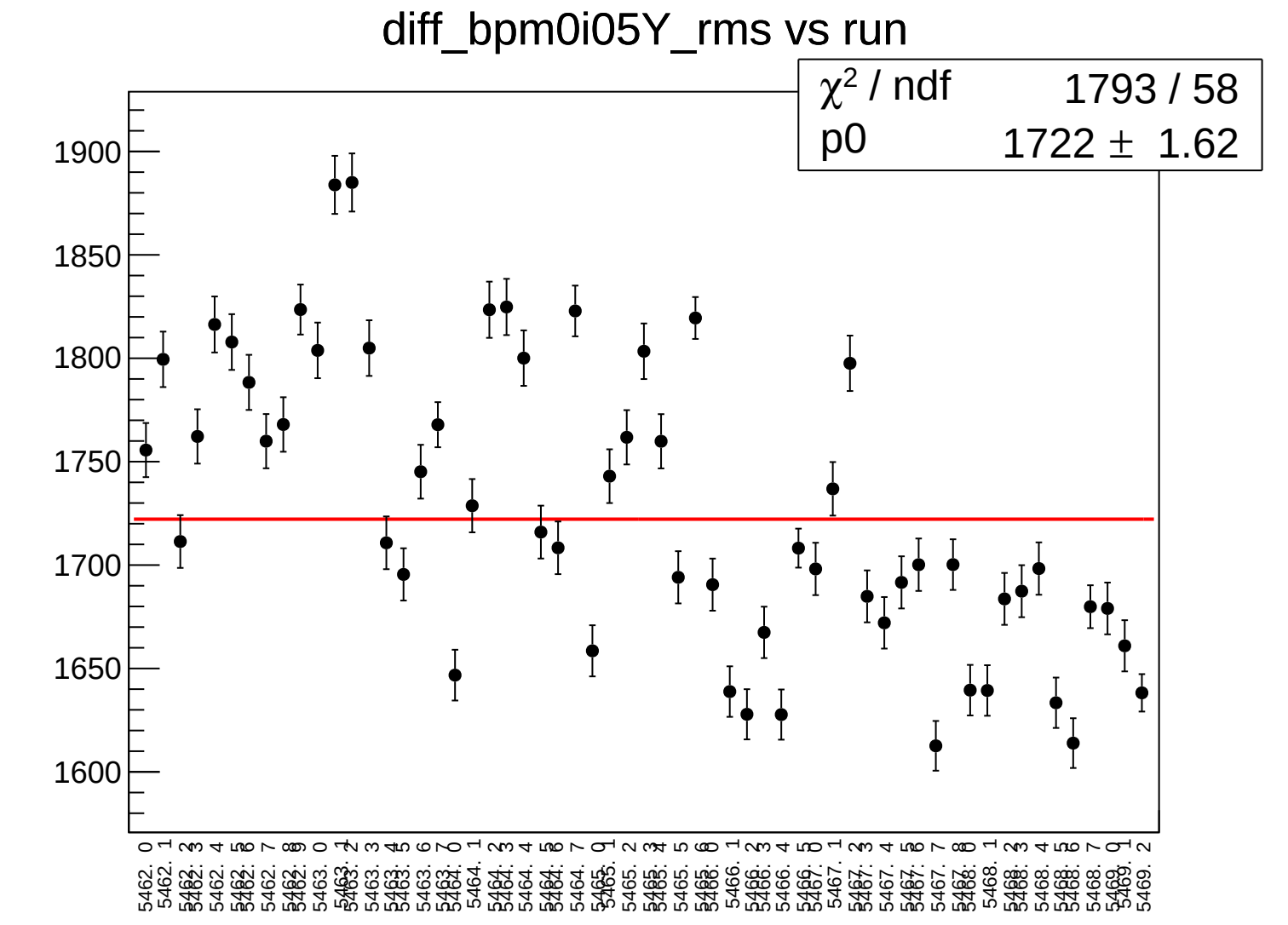

diff_bpm0i05X_mean vs run
χ^2 / ndf 160.8 / 58
p0 19.89 ± 1.951
pull
Entries 59
Mean −628.9
Std Dev 659.5

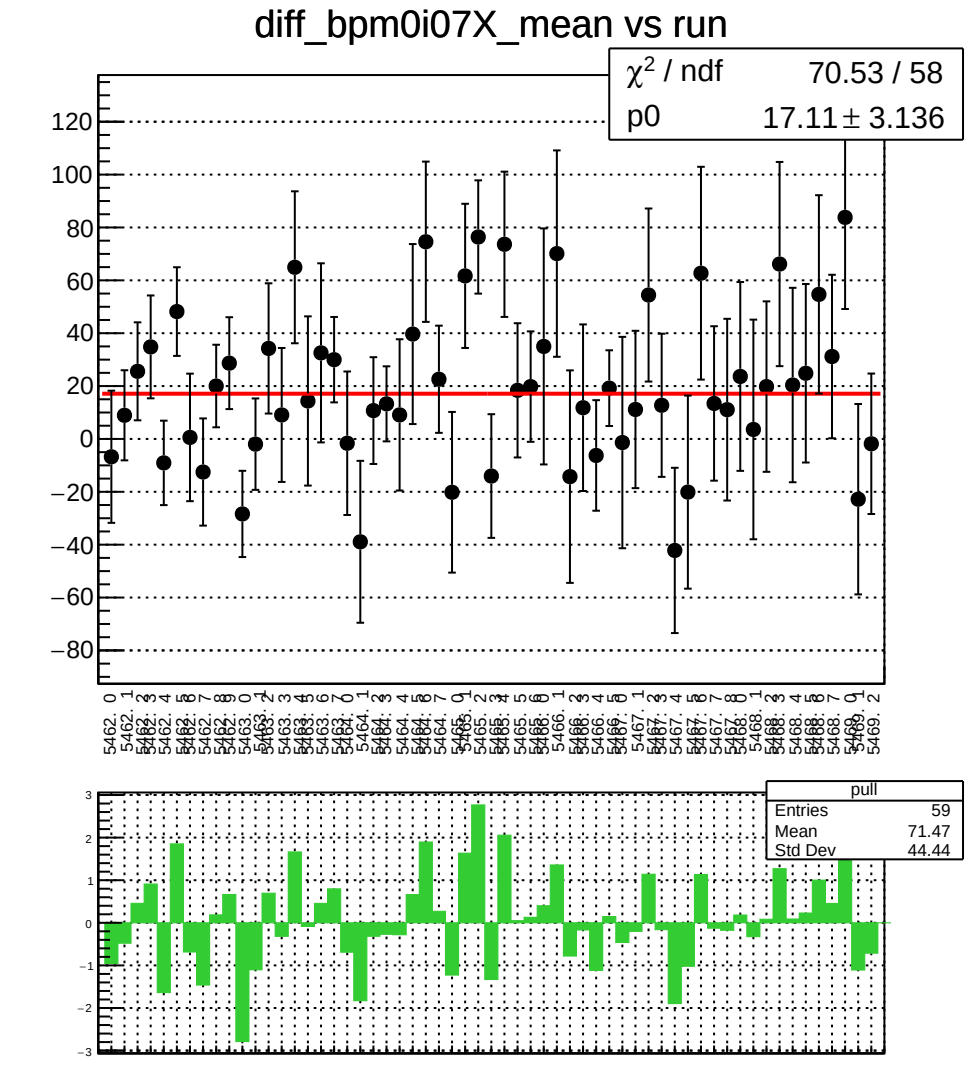

pull1D
Entries 59
Mean 0.03105
Std Dev 1.651

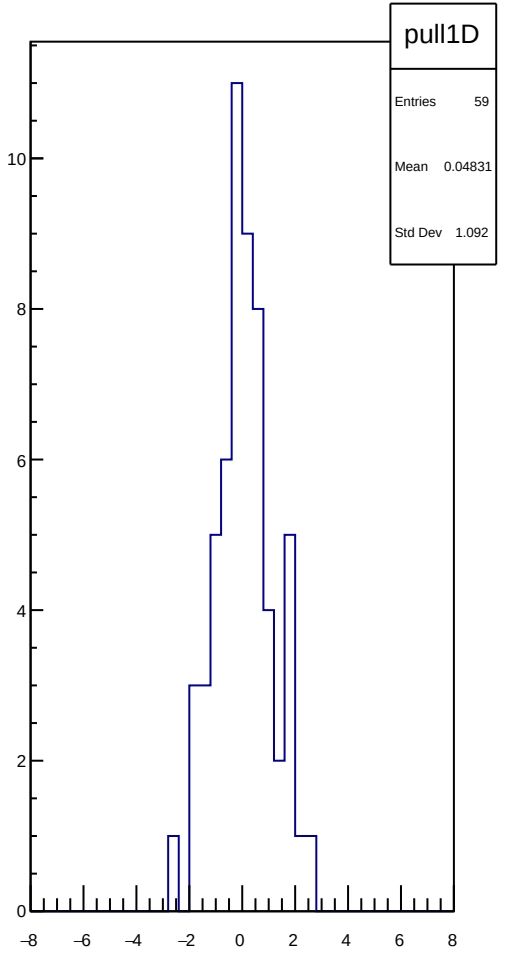

diff_bpm0i05X_rms vs run
χ² / ndf 1491 / 58
p0 1467 ± 1.38
1700
1650
1600
1550
1500
1450
1400

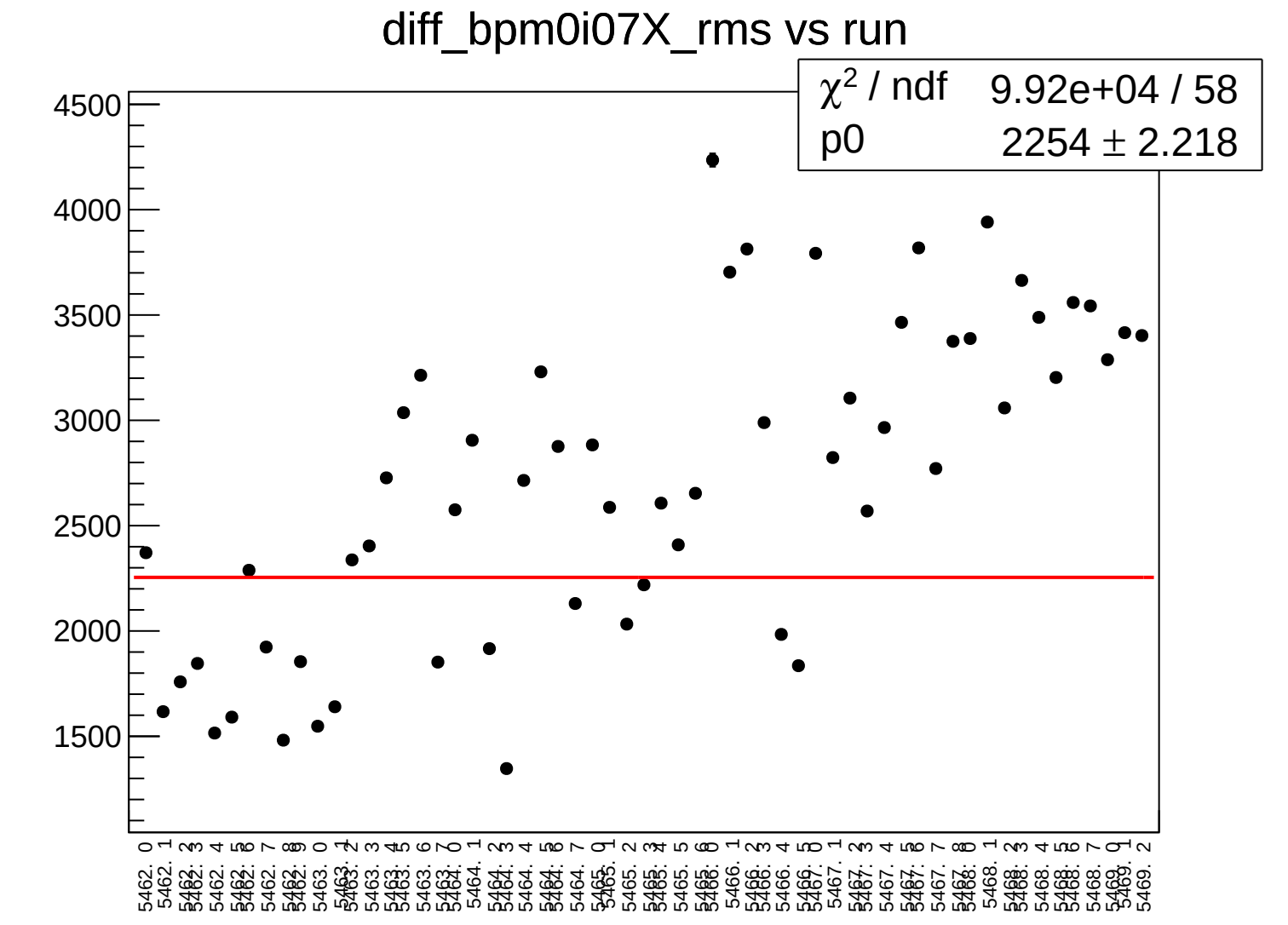

diff_bpm0i05Y_mean vs run
χ² / ndf 48.94 / 58
p0 20.73 ± 2.29
pull
Entries 59
Mean −1062
Std Dev 1088

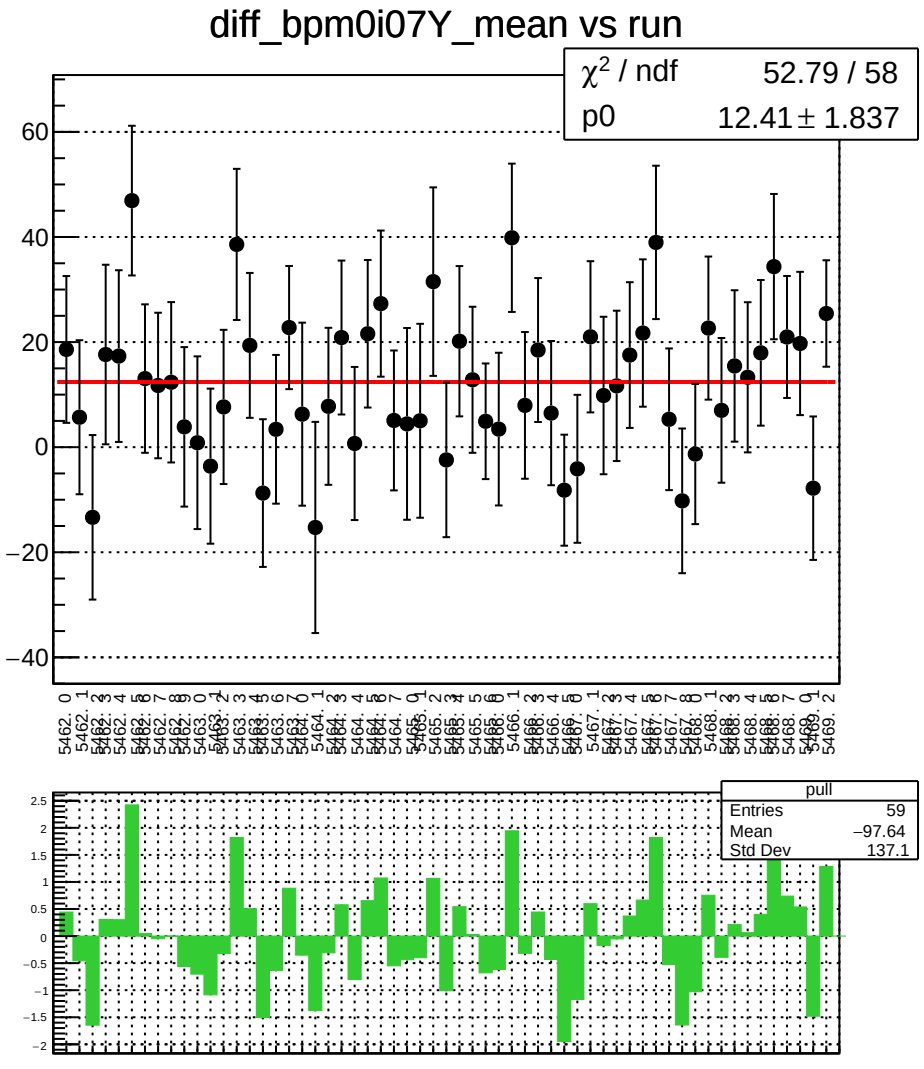

pull1D
Entries 59
Mean 0.001953
Std Dev 0.9107

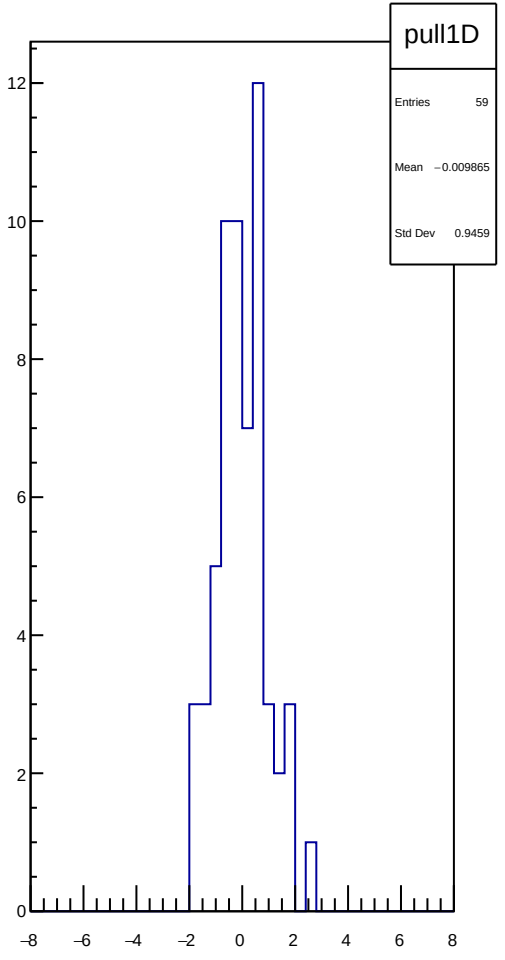

diff_bpm0i05Y_rms vs run
χ² / ndf 1793 / 58
p0 1722 ± 1.62
1900
1850
1800
1750
1700
1650
1600

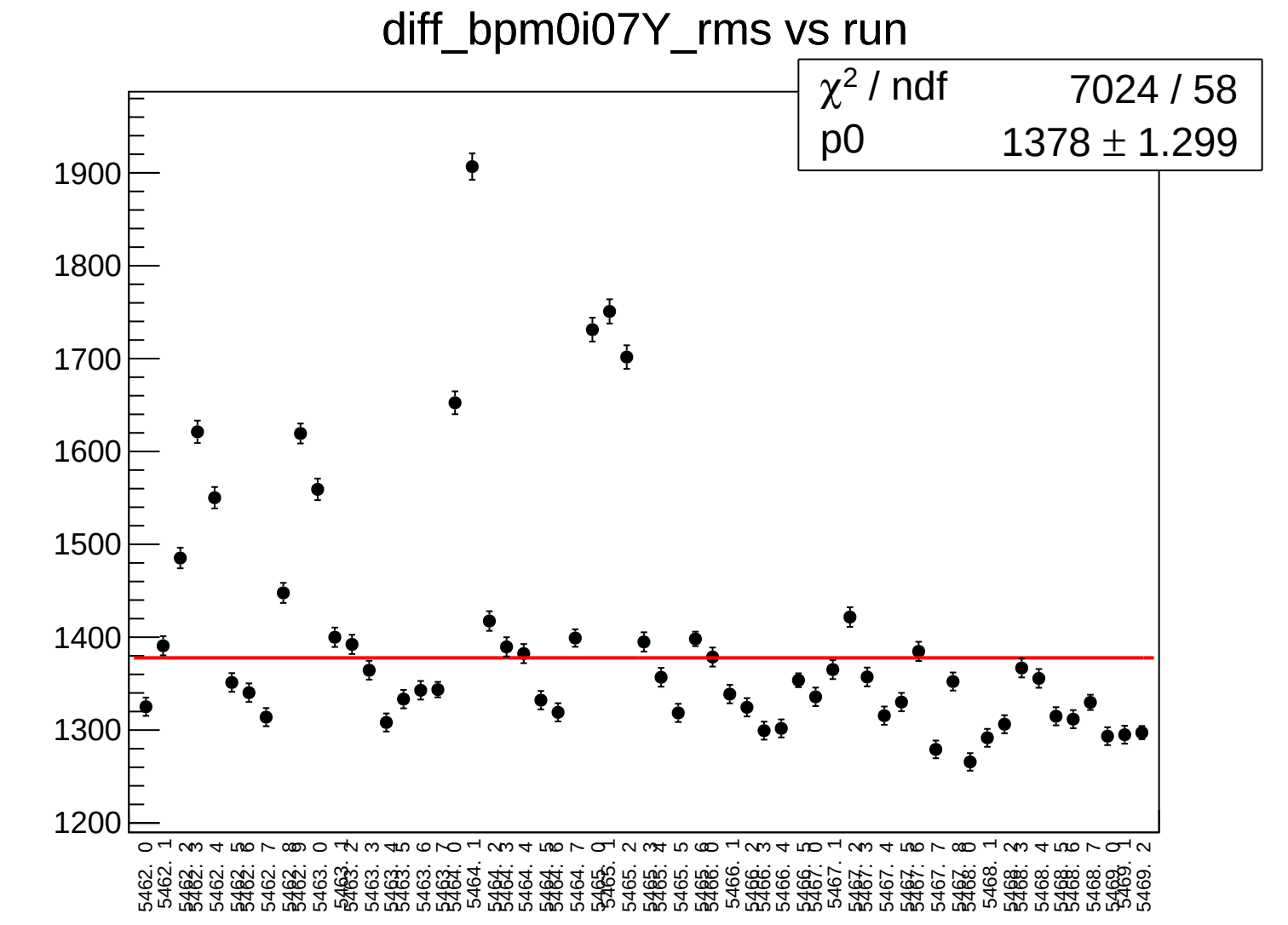

diff_bpm0i07X_mean vs run
χ^2 / ndf 70.53 / 58
p0 17.11 ± 3.136
pull
Entries 59
Mean 71.47
Std Dev 44.44

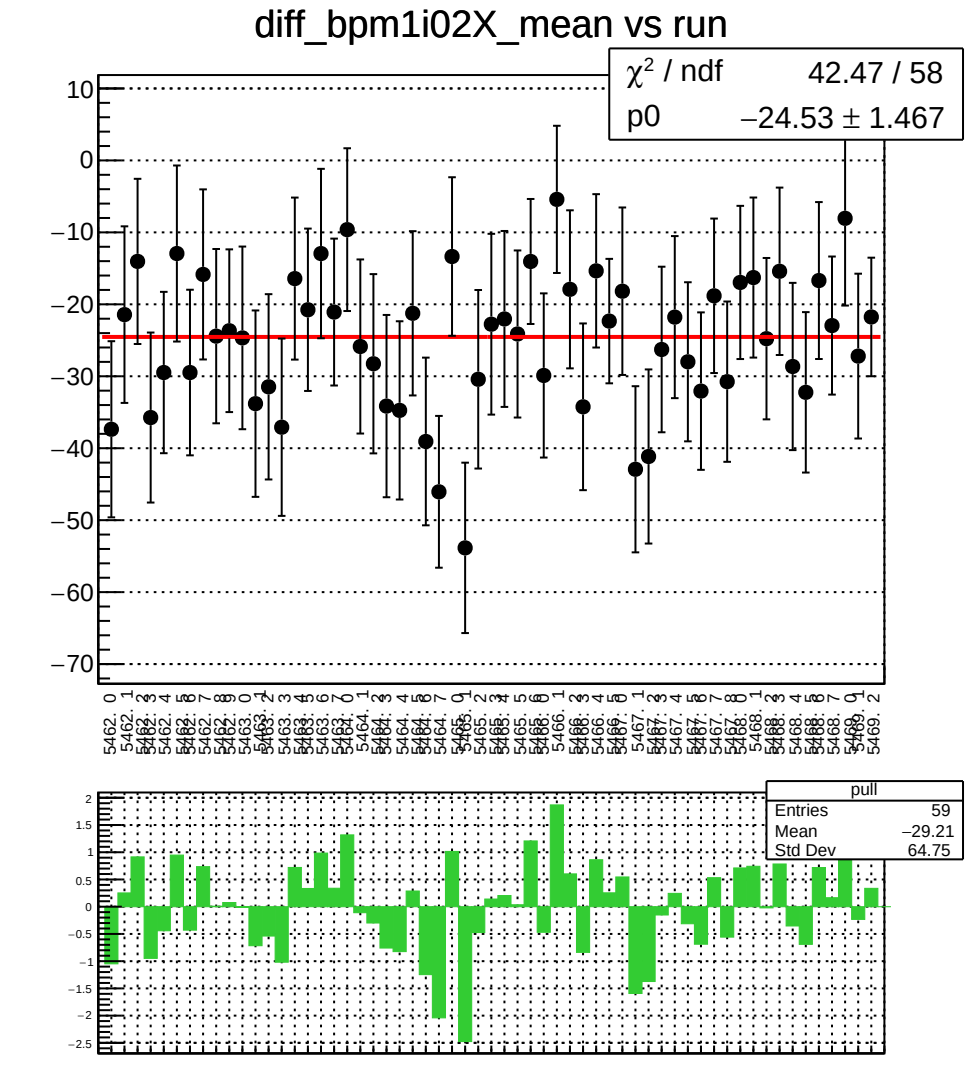

pull1D
Entries 59
Mean 0.04831
Std Dev 1.092

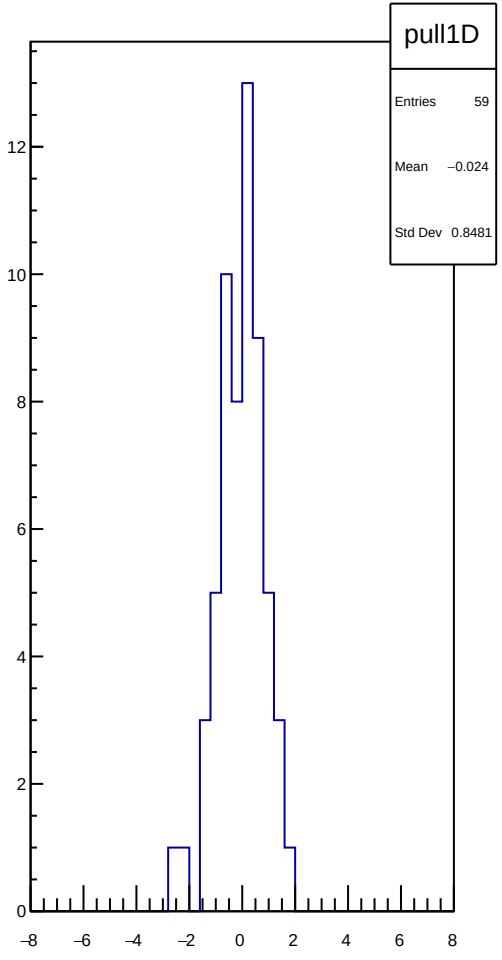

diff_bpm0i07X_rms vs run
χ² / ndf 9.92e+04 / 58
p0 2254 ± 2.218
4500
4000
3500
3000
2500
2000
1500

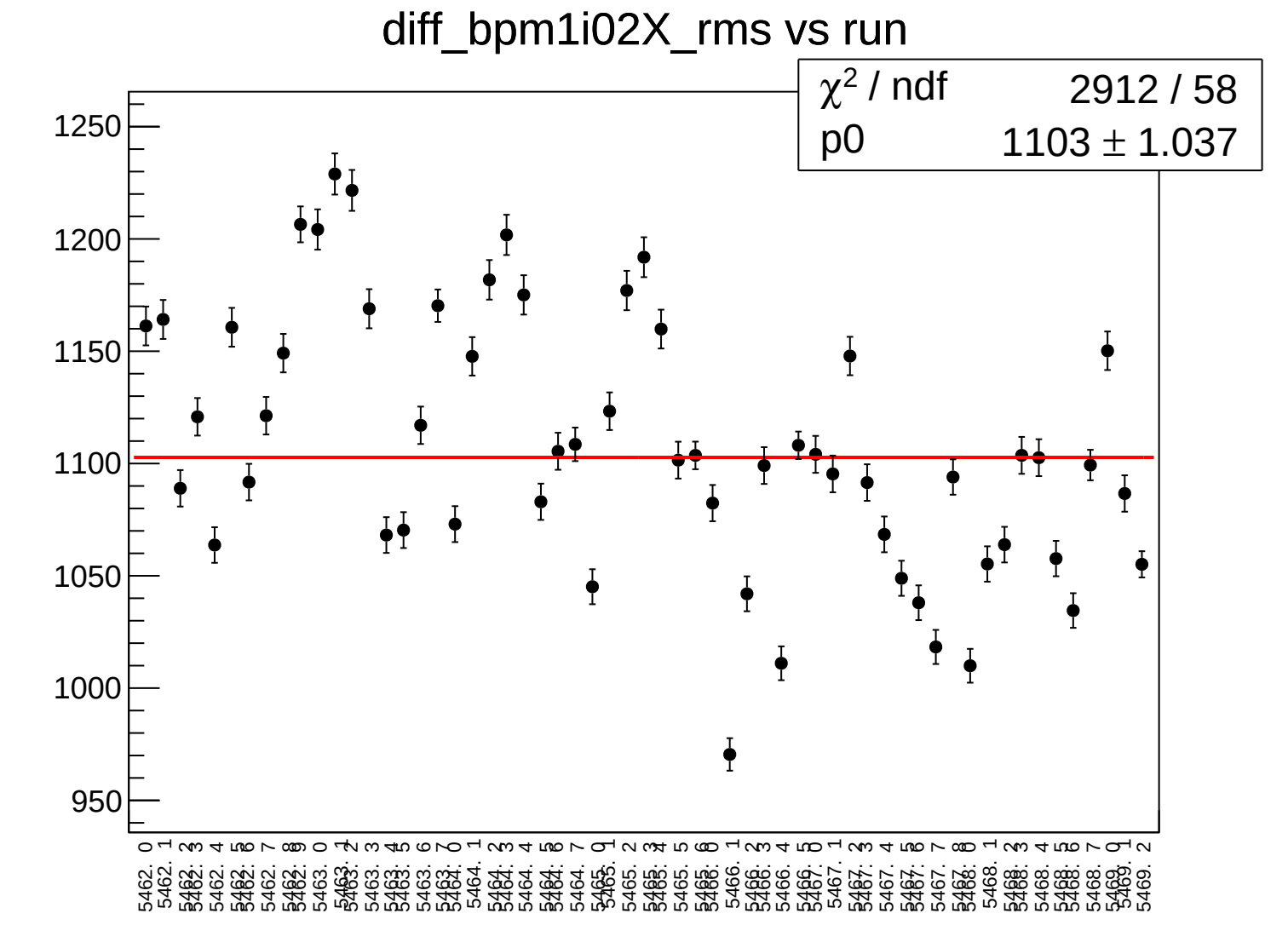

diff_bpm0i07Y_mean vs run
χ^2 / ndf 52.79 / 58
p0 12.41 ± 1.837
pull
Entries 59
Mean −97.64
Std Dev 137.1

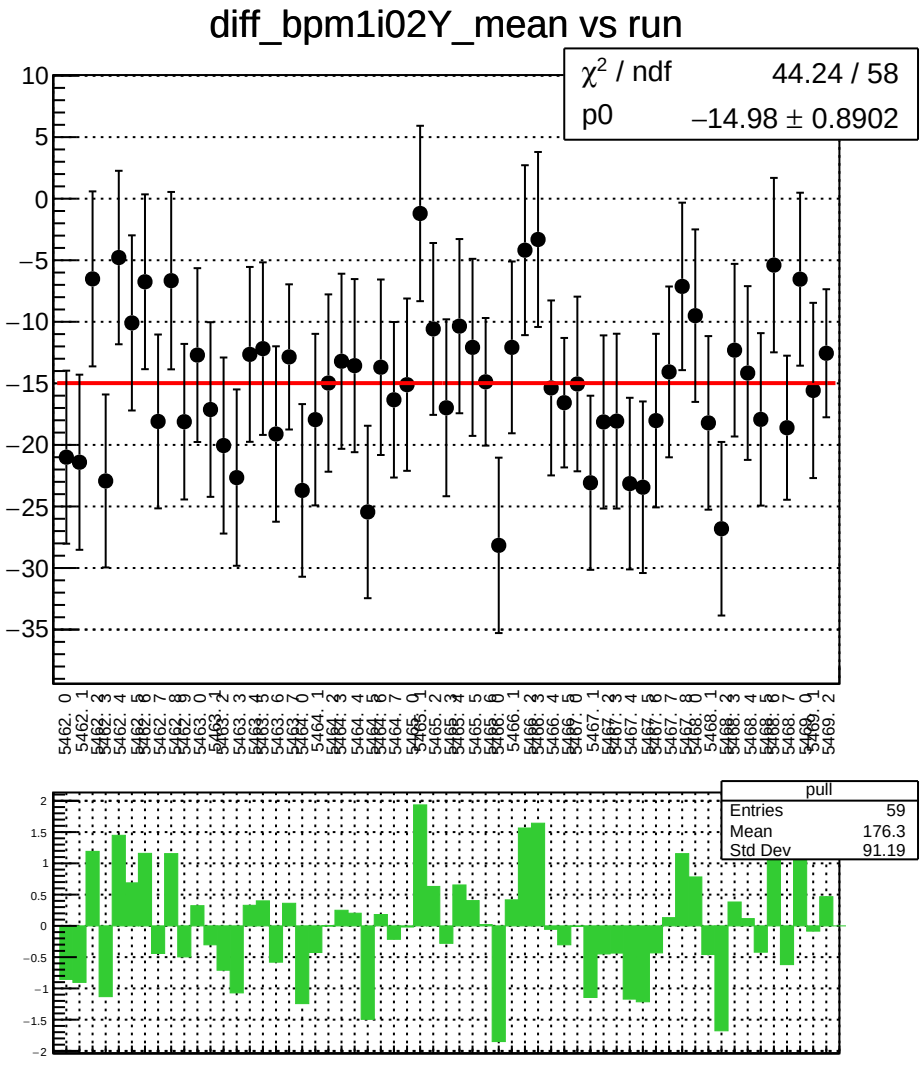

pull1D
Entries 59
Mean −0.009865
Std Dev 0.9459

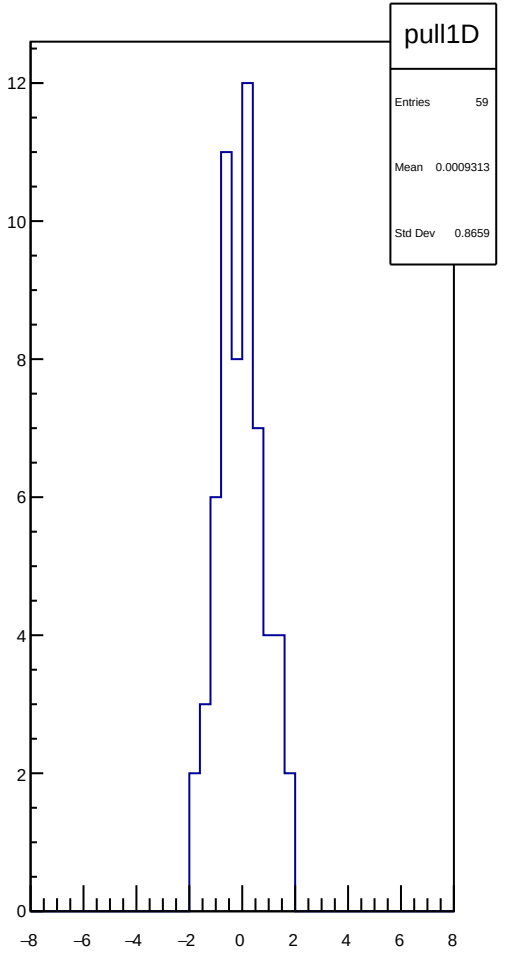

diff_bpm0i07Y_rms vs run
χ² / ndf 7024 / 58
p0 1378 ± 1.299
1900
1800
1700
1600
1500
1400
1300
1200

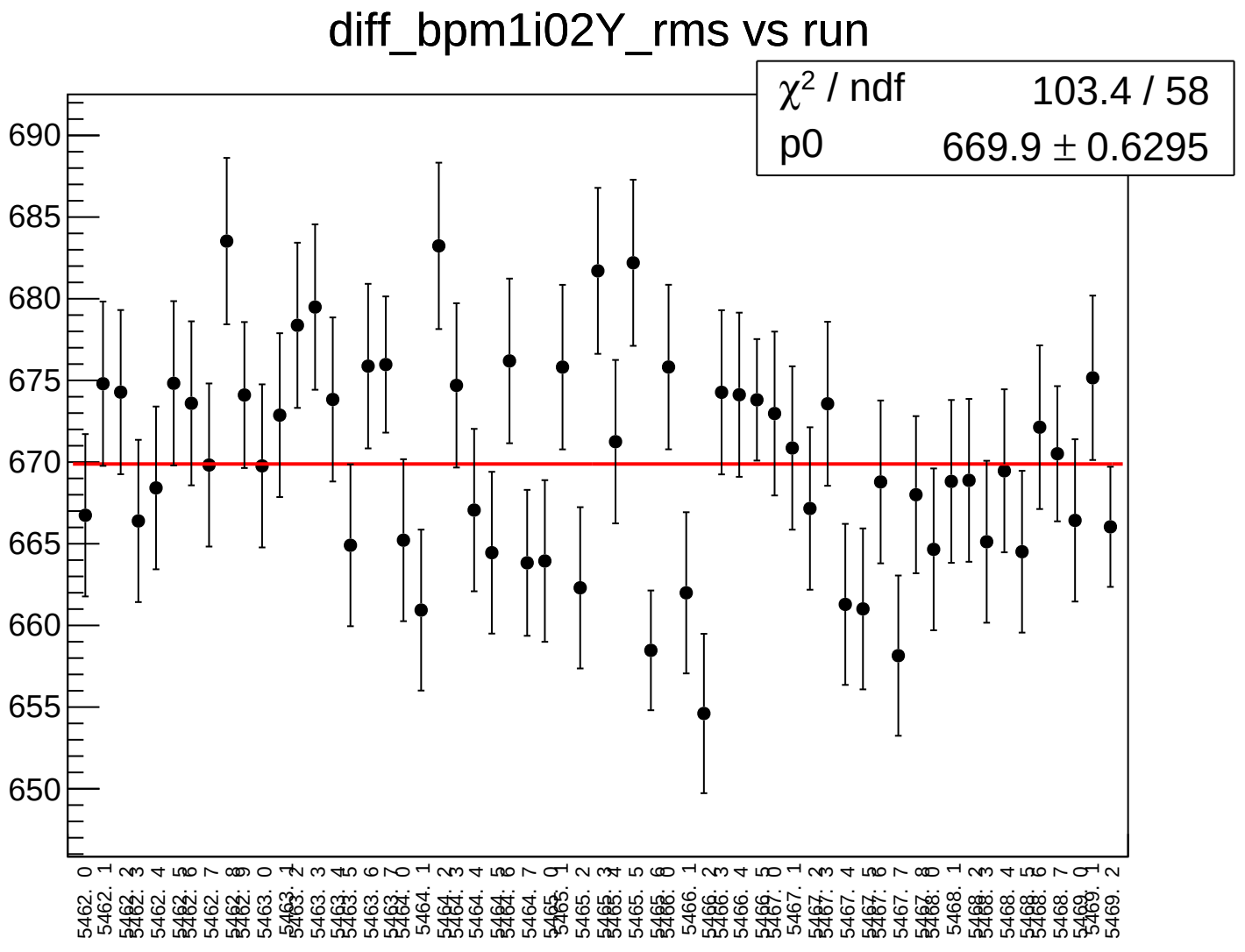

diff_bpm1i02X_mean vs run
χ² / ndf 42.47 / 58
p0 −24.53 ± 1.467
pull
Entries 59
Mean −29.21
Std Dev 64.75

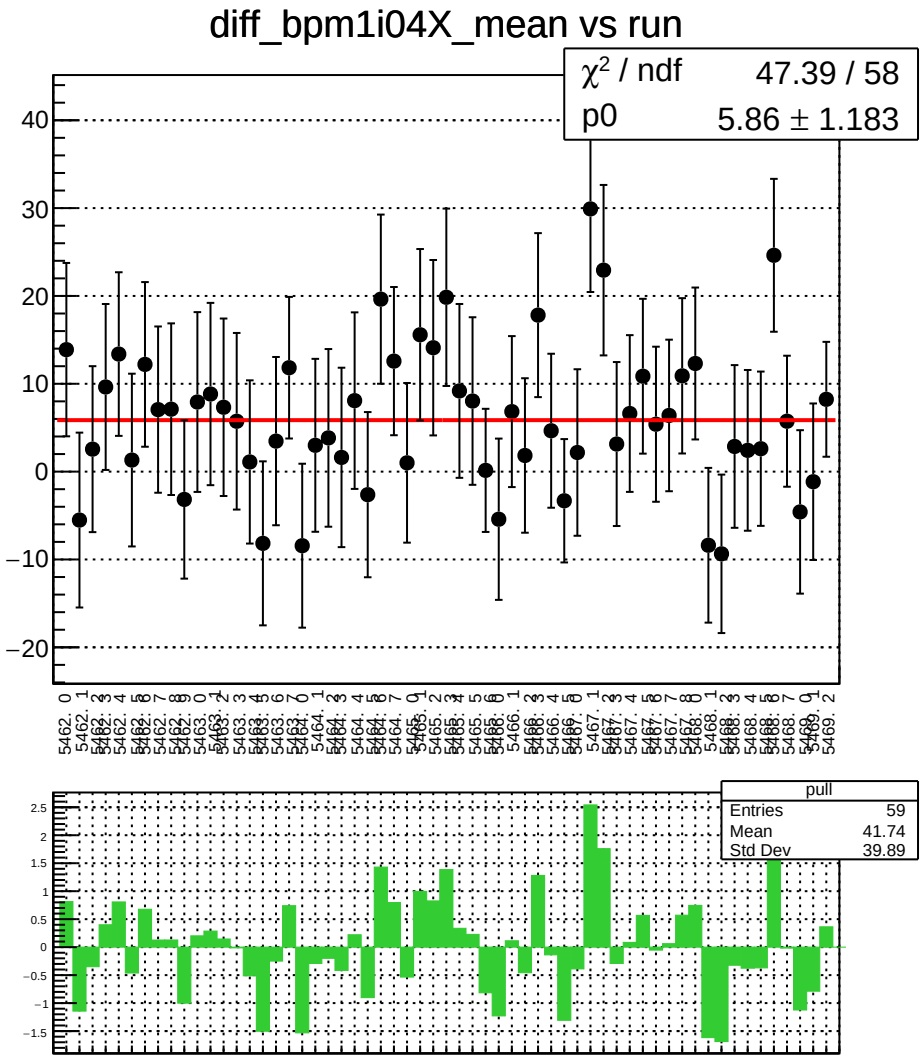

pull1D
Entries 59
Mean −0.024
Std Dev 0.8481

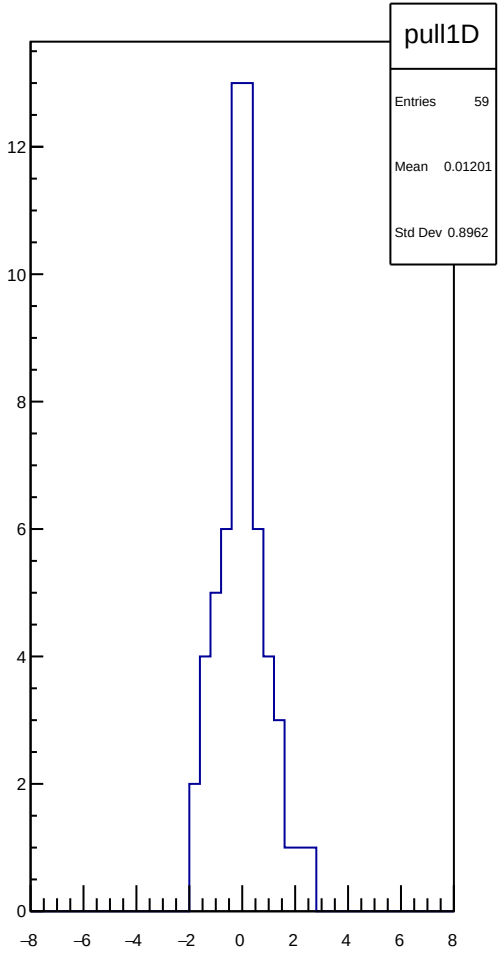

diff_bpm1i02X_rms vs run
χ² / ndf 2912 / 58
p0 1103 ± 1.037
1250
1200
1150
1100
1050
1000
950
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

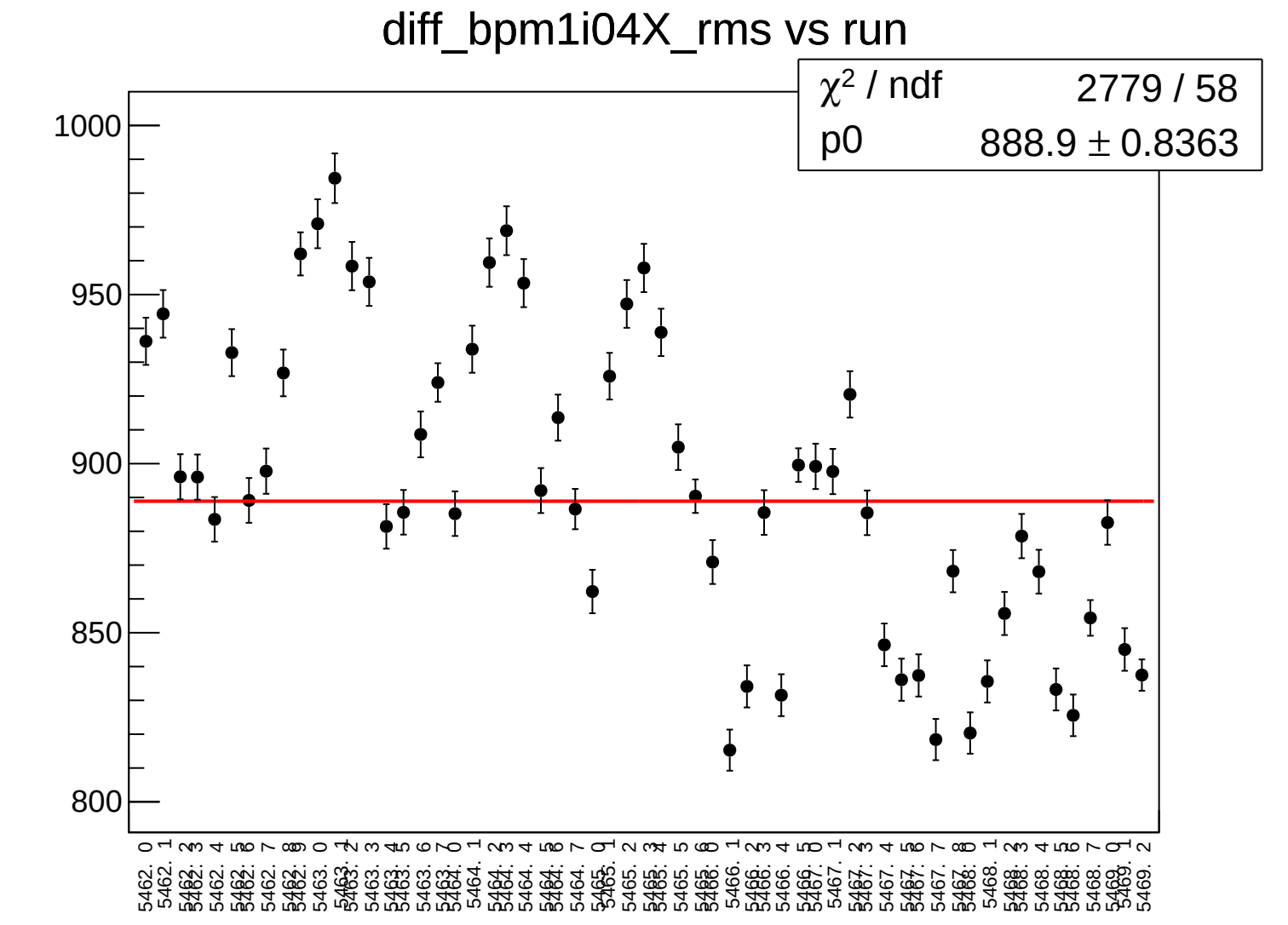

diff_bpm1i02Y_mean vs run
χ² / ndf 44.24 / 58
p0 −14.98 ± 0.8902
pull
Entries 59
Mean 176.3
Std Dev 91.19

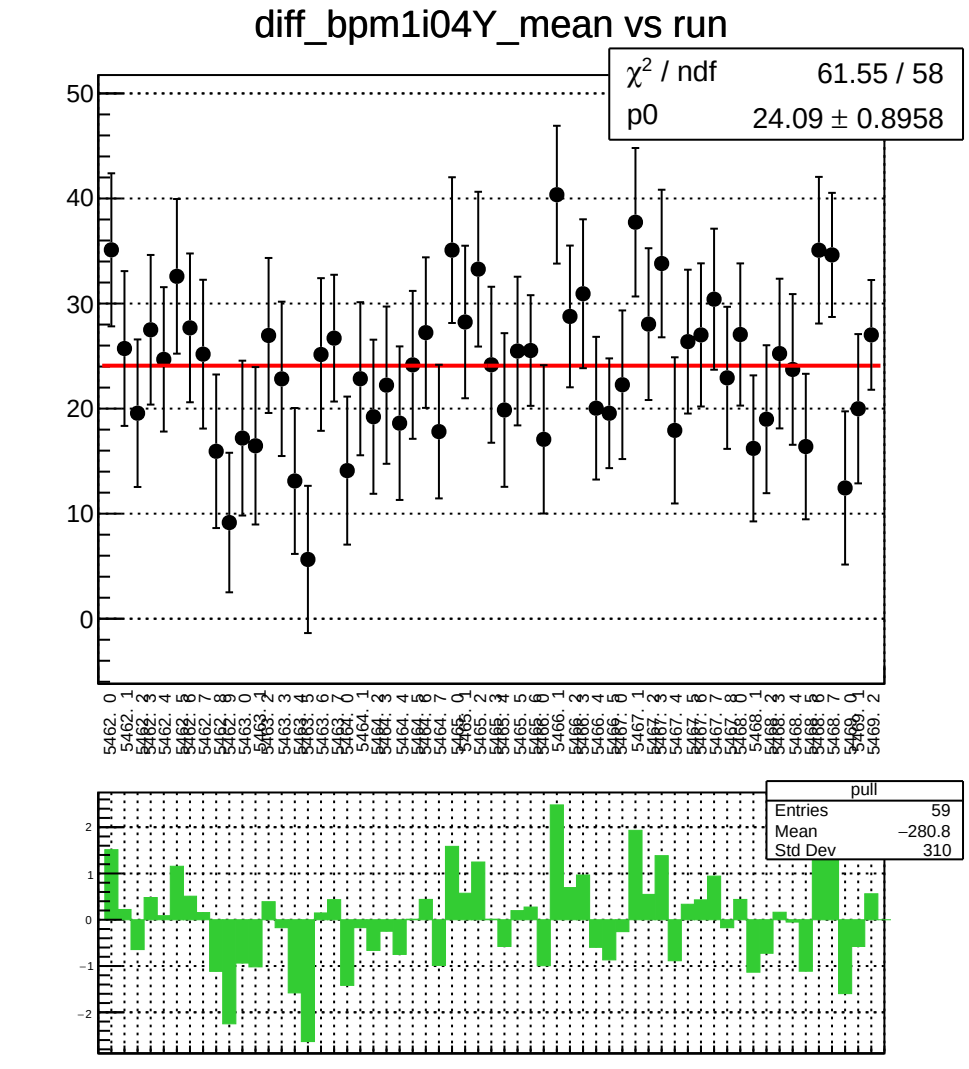

pull1D
Entries 59
Mean 0.0009313
Std Dev 0.8659

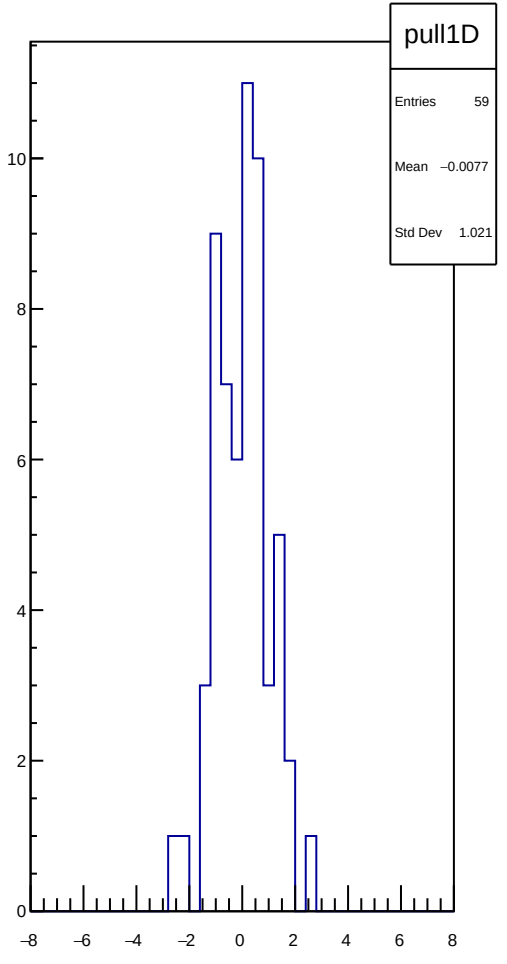

diff_bpm1i02Y_rms vs run
χ² / ndf 103.4 / 58
p0 669.9 ± 0.6295
690
685
680
675
670
665
660
655
650
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

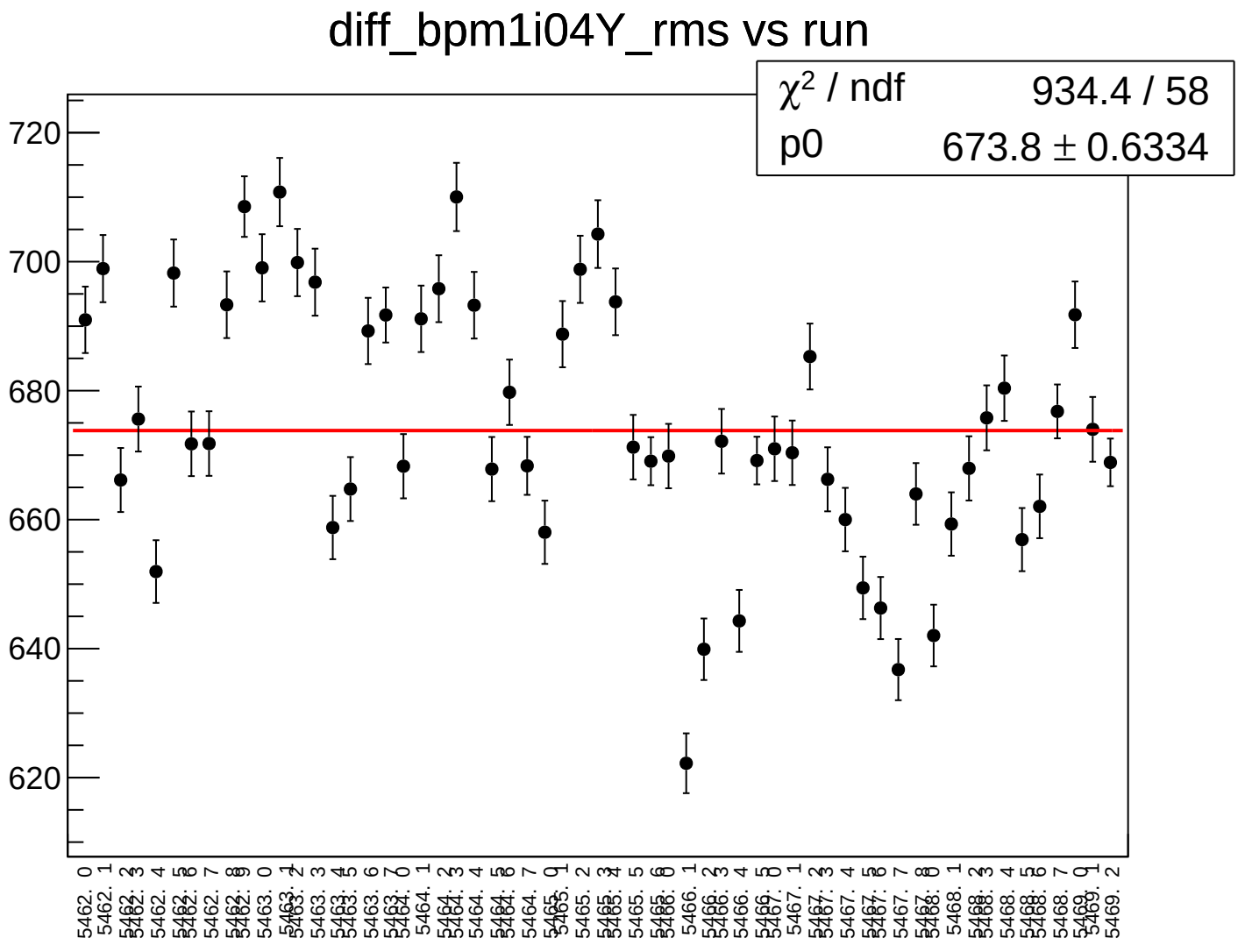

diff_bpm1i04X_mean vs run
χ² / ndf 47.39 / 58
p0 5.86 ± 1.183
pull
Entries 59
Mean 41.74
Std Dev 39.89

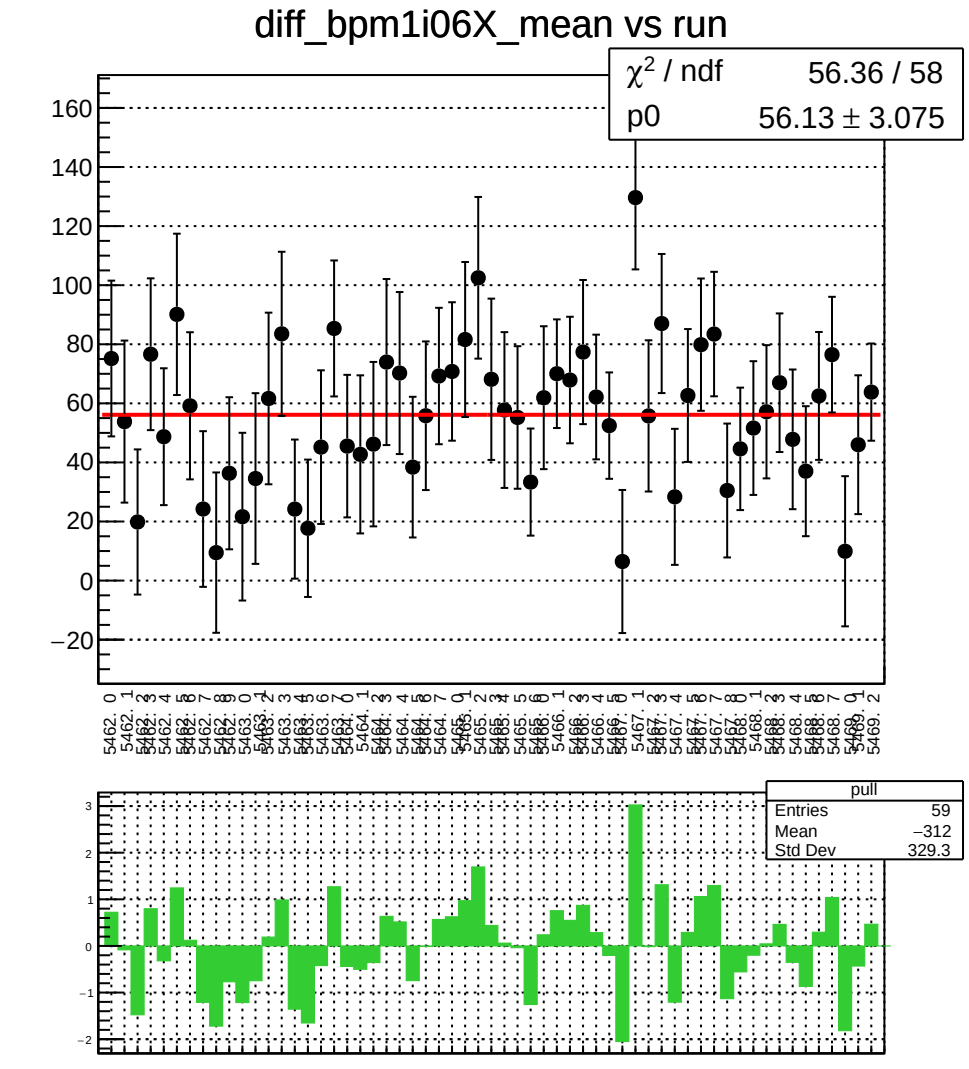

pull1D
Entries 59
Mean 0.01201
Std Dev 0.8962

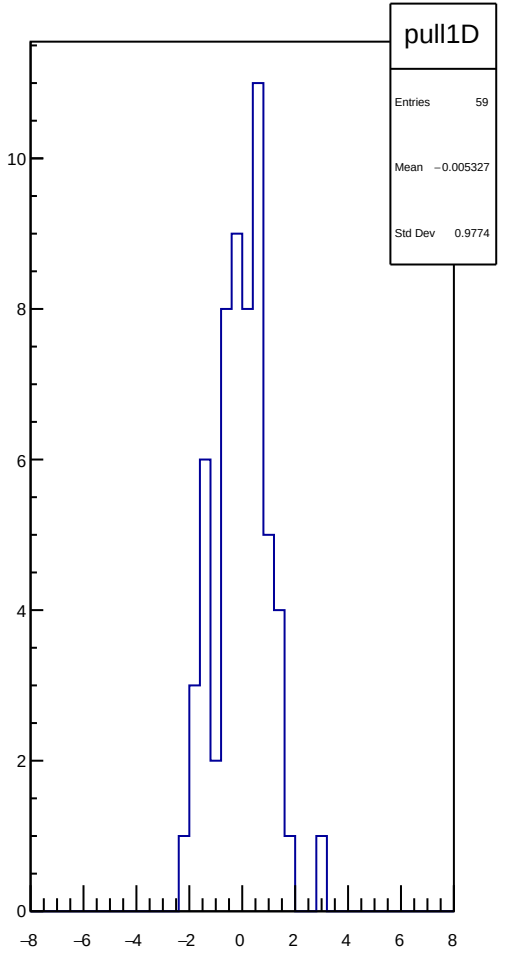

diff_bpm1i04X_rms vs run
χ² / ndf 2779 / 58
p0 888.9 ± 0.8363
1000
950
900
850
800

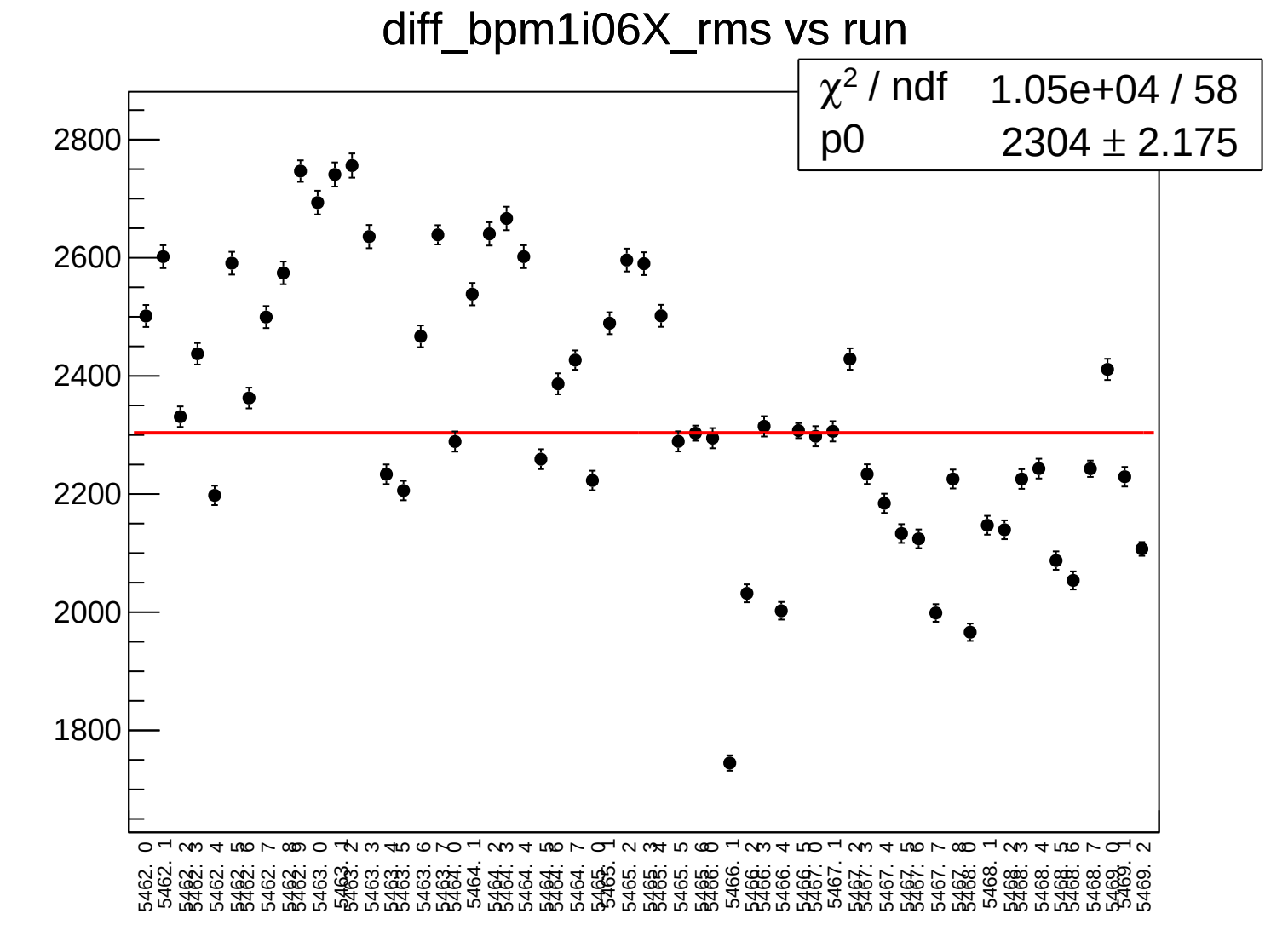

diff_bpm1i04Y_mean vs run
χ² / ndf 61.55 / 58
p0 24.09 ± 0.8958
pull
Entries 59
Mean −280.8
Std Dev 310

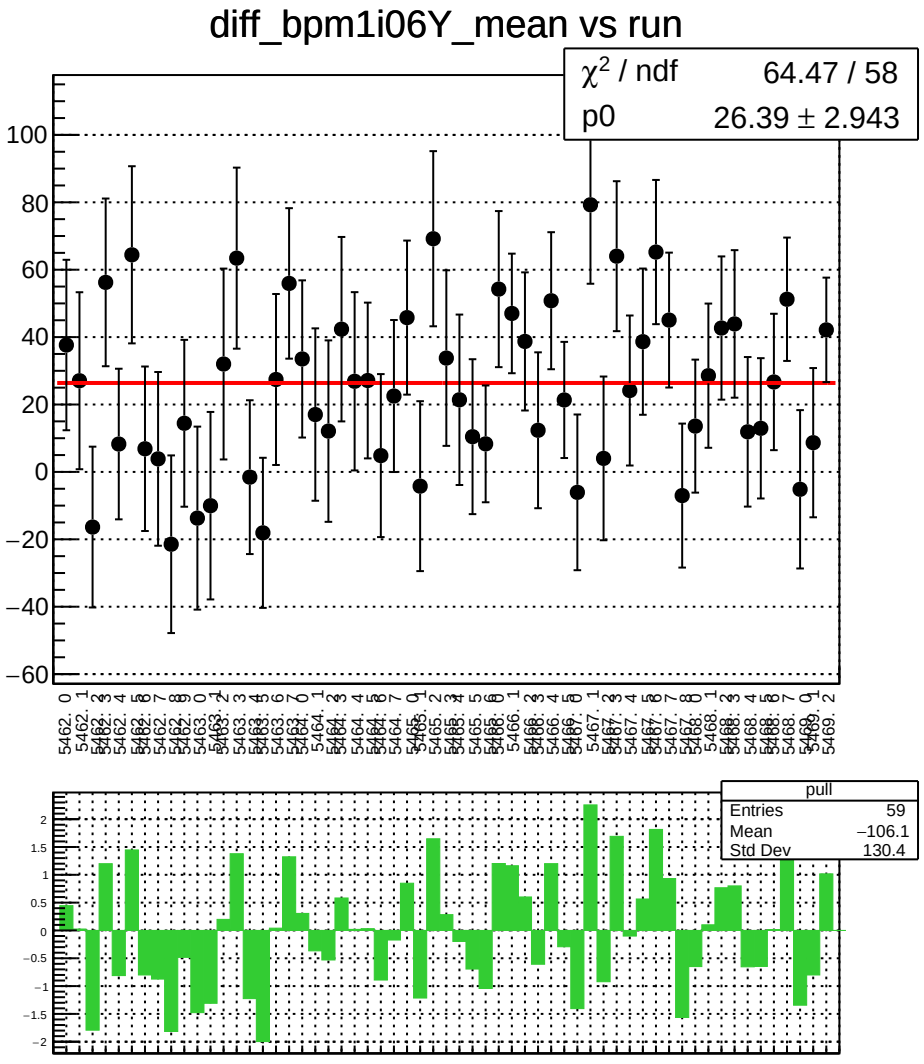

pull1D
Entries 59
Mean −0.0077
Std Dev 1.021

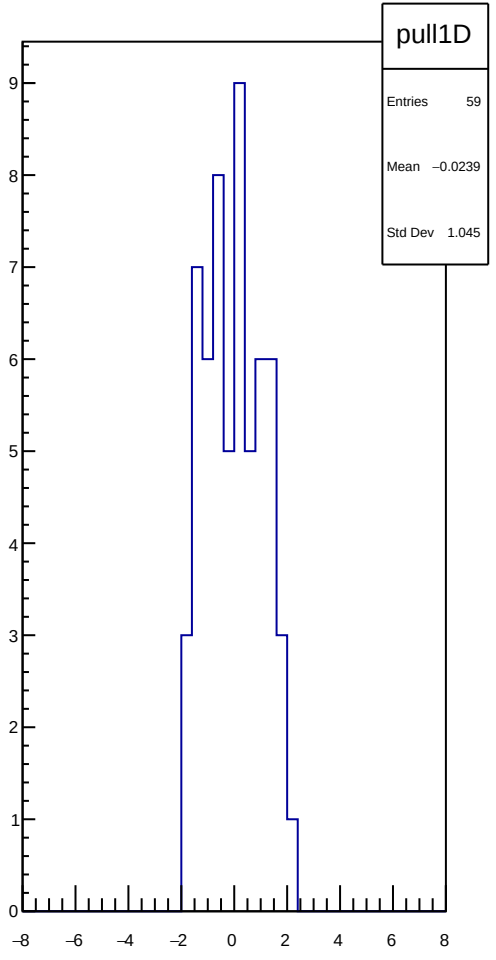

diff_bpm1i04Y_rms vs run
χ² / ndf 934.4 / 58
p0 673.8 ± 0.6334
720
700
680
660
640
620
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

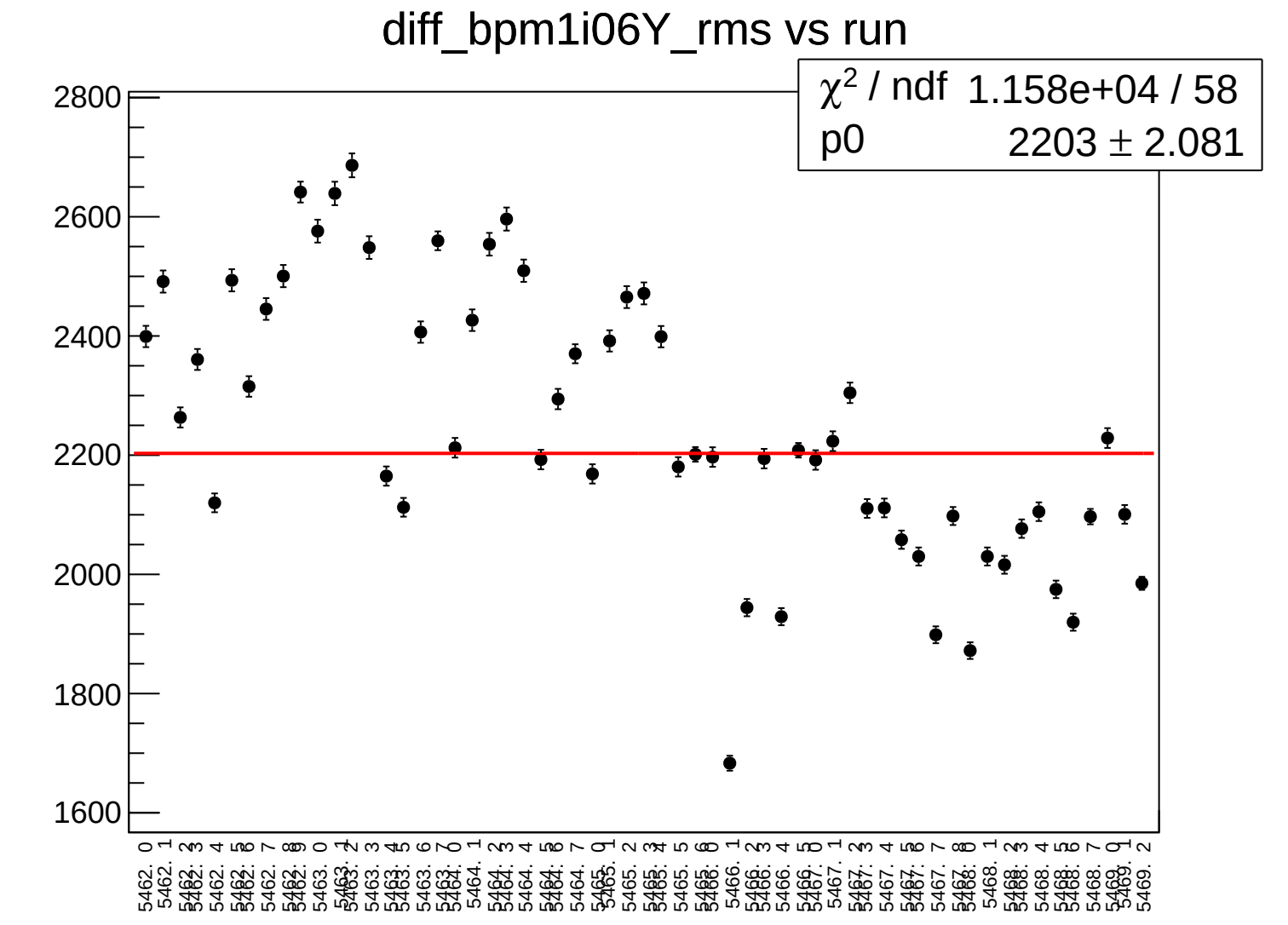

diff_bpm1i06X_mean vs run
χ² / ndf 56.36 / 58
p0 56.13 ± 3.075
pull
Entries 59
Mean −312
Std Dev 329.3

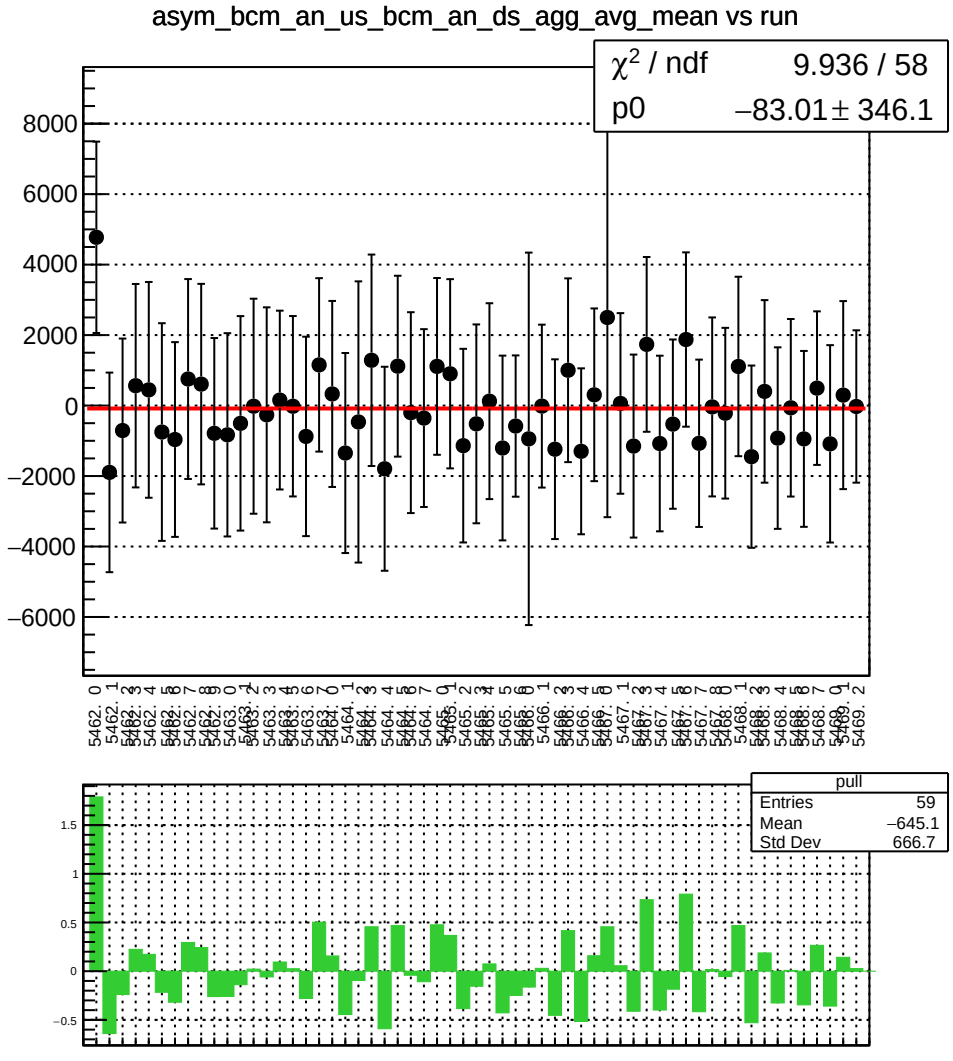

pull1D
Entries 59
Mean −0.005327
Std Dev 0.9774

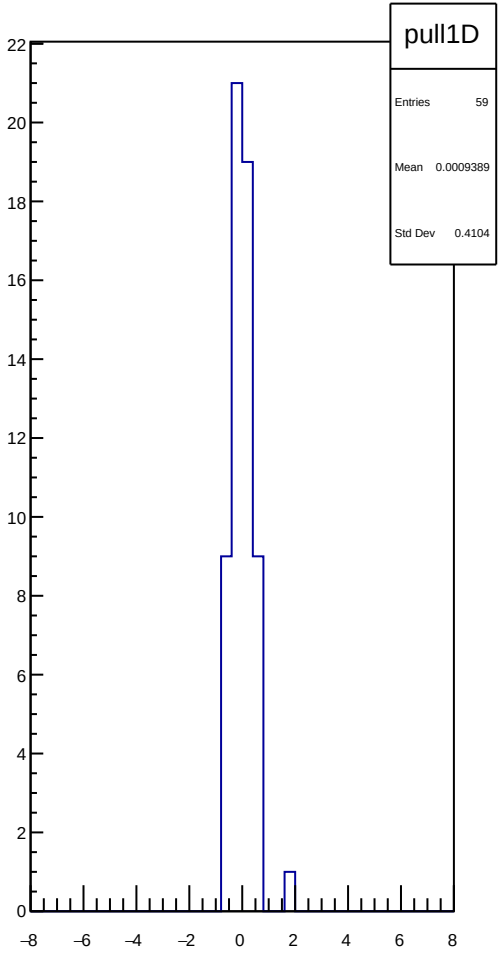

diff_bpm1i06X_rms vs run
χ² / ndf 1.05e+04 / 58
p0 2304 ± 2.175
2800
2600
2400
2200
2000
1800

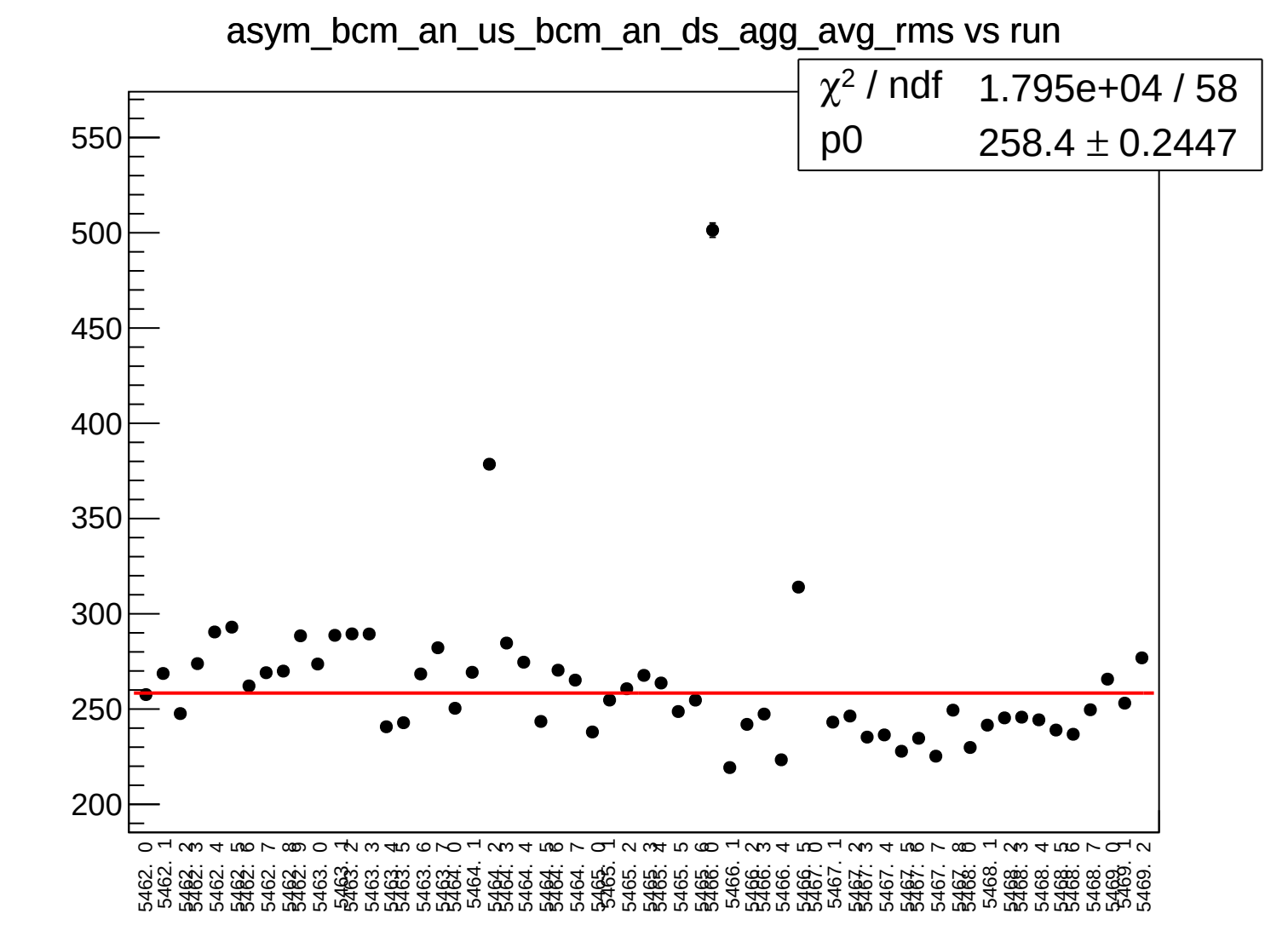

diff_bpm1i06Y_mean vs run
χ^2 / ndf 64.47 / 58
p0 26.39 ± 2.943
pull
Entries 59
Mean −106.1
Std Dev 130.4

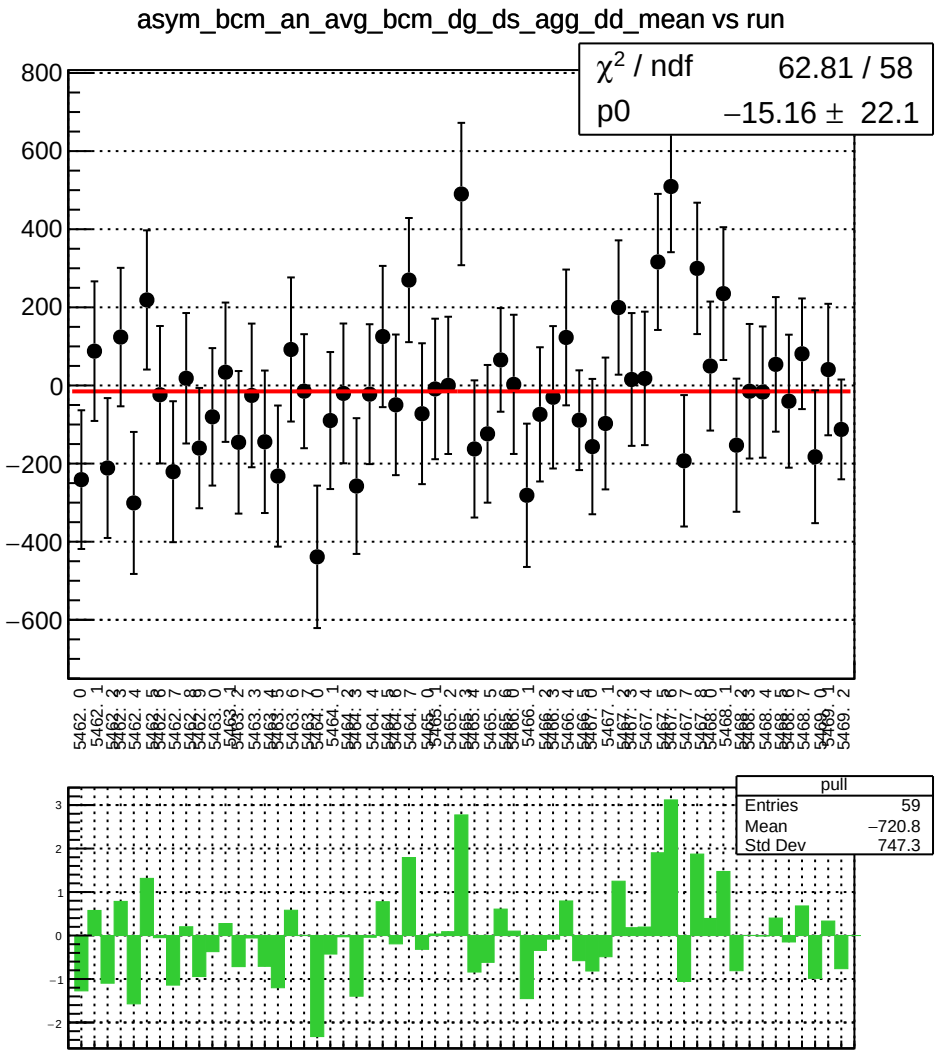

pull1D
Entries 59
Mean −0.0239
Std Dev 1.045

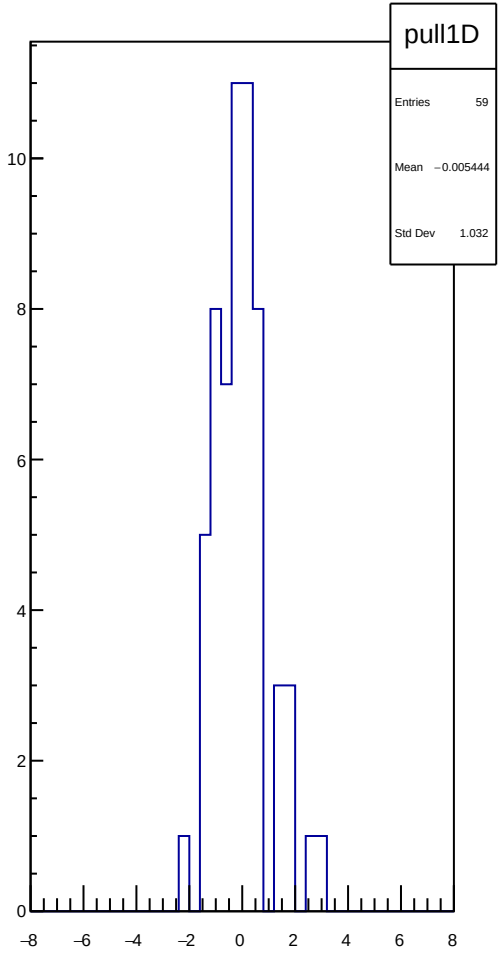

diff_bpm1i06Y_rms vs run
χ² / ndf 1.158e+04 / 58
p0 2203 ± 2.081
2800
2600
2400
2200
2000
1800
1600

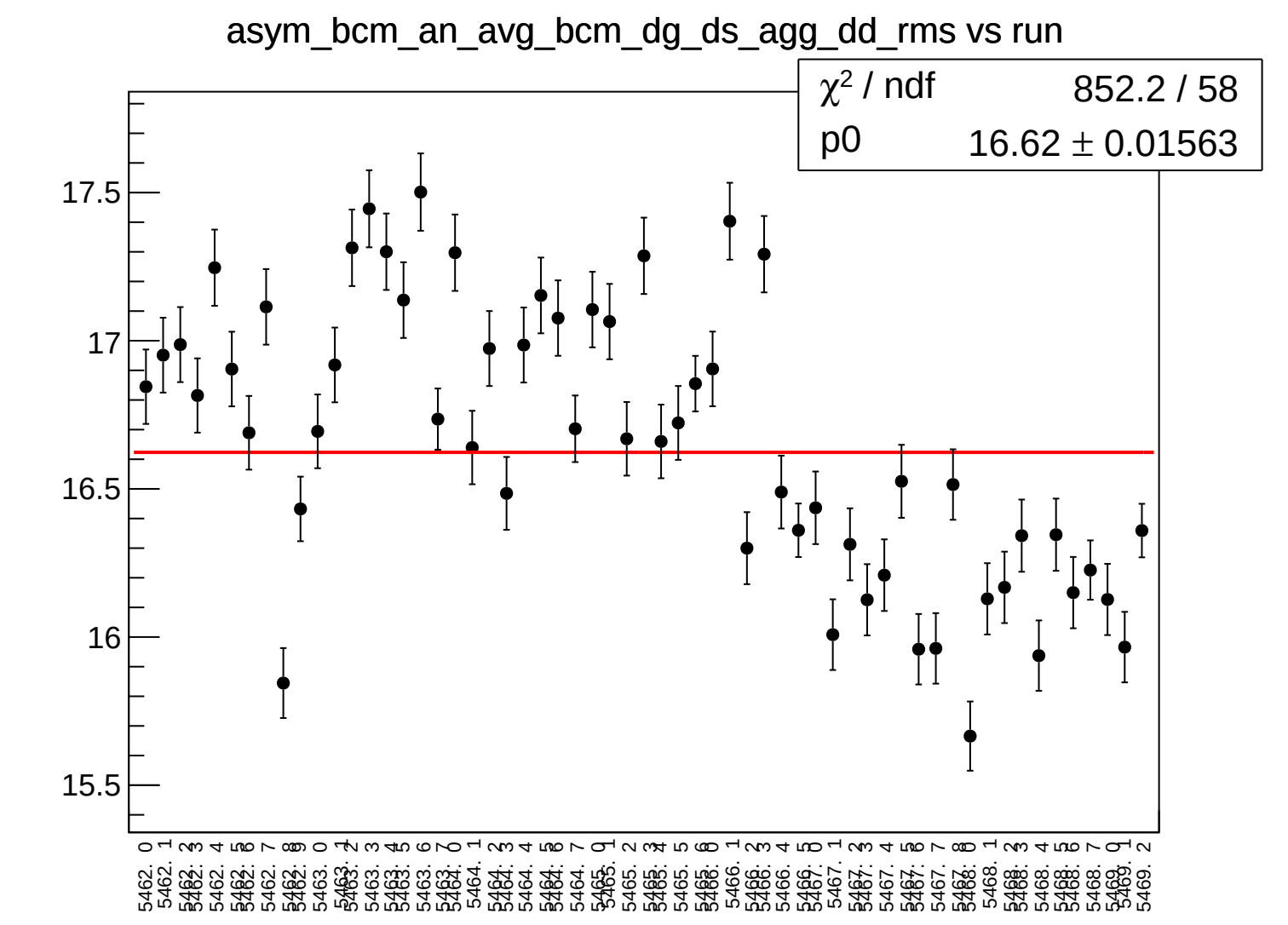

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 9.936 / 58
p0 −83.01 ± 346.1
pull
Entries 59
Mean −645.1
Std Dev 666.7

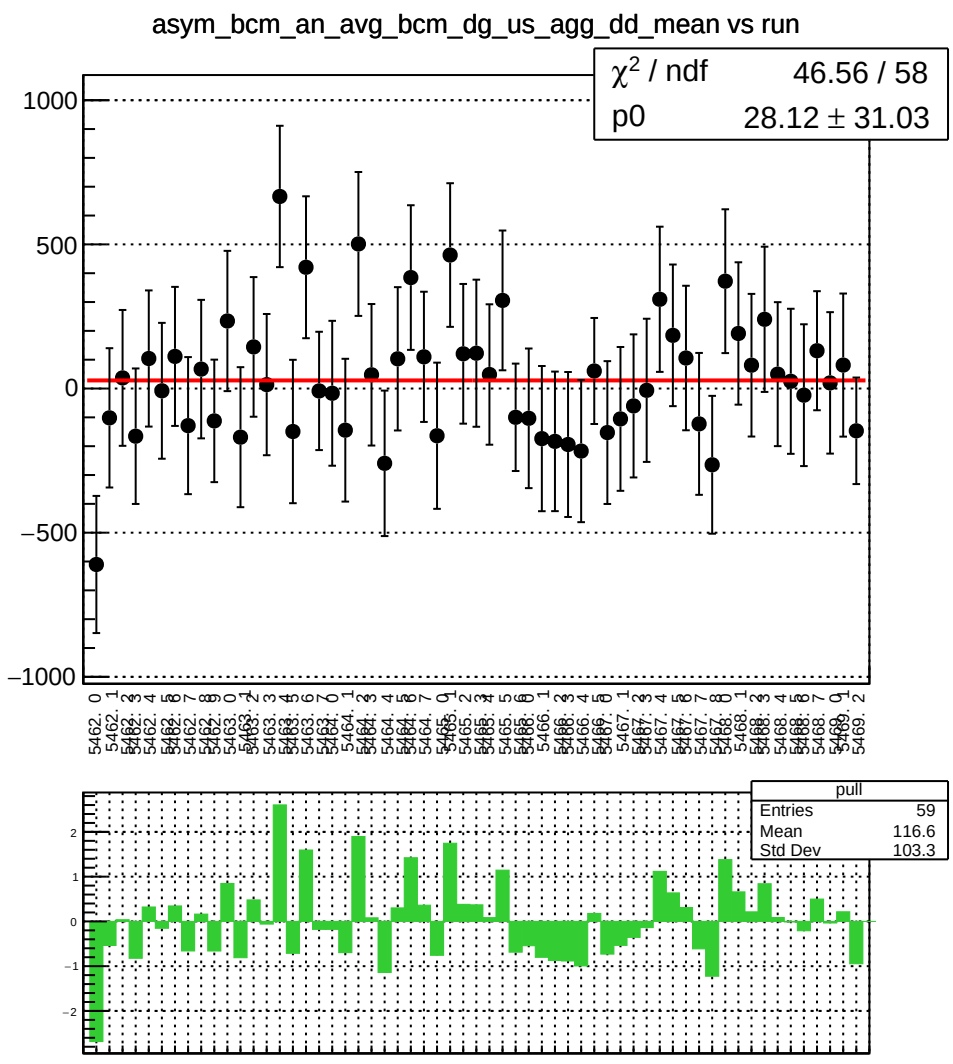

pull1D
Entries 59
Mean 0.0009389
Std Dev 0.4104

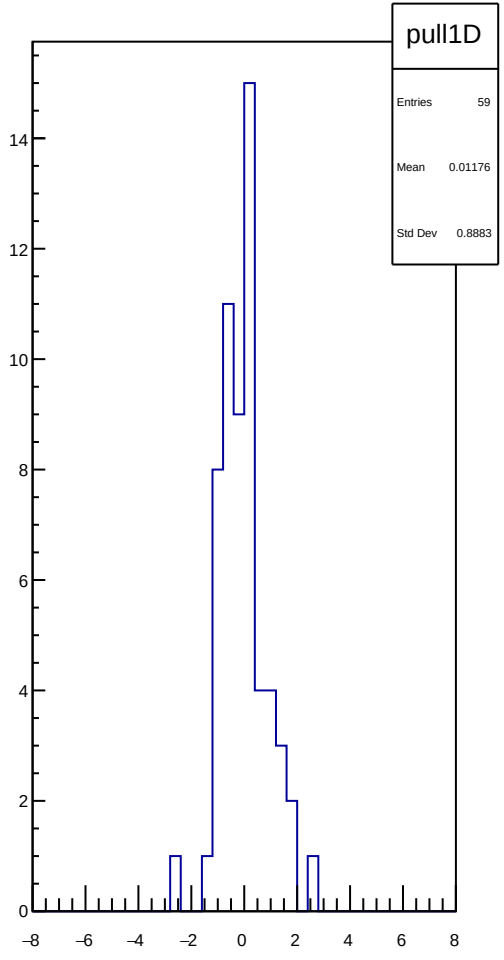

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.795e+04 / 58
p0 258.4 ± 0.2447
550
500
450
400
350
300
250
200

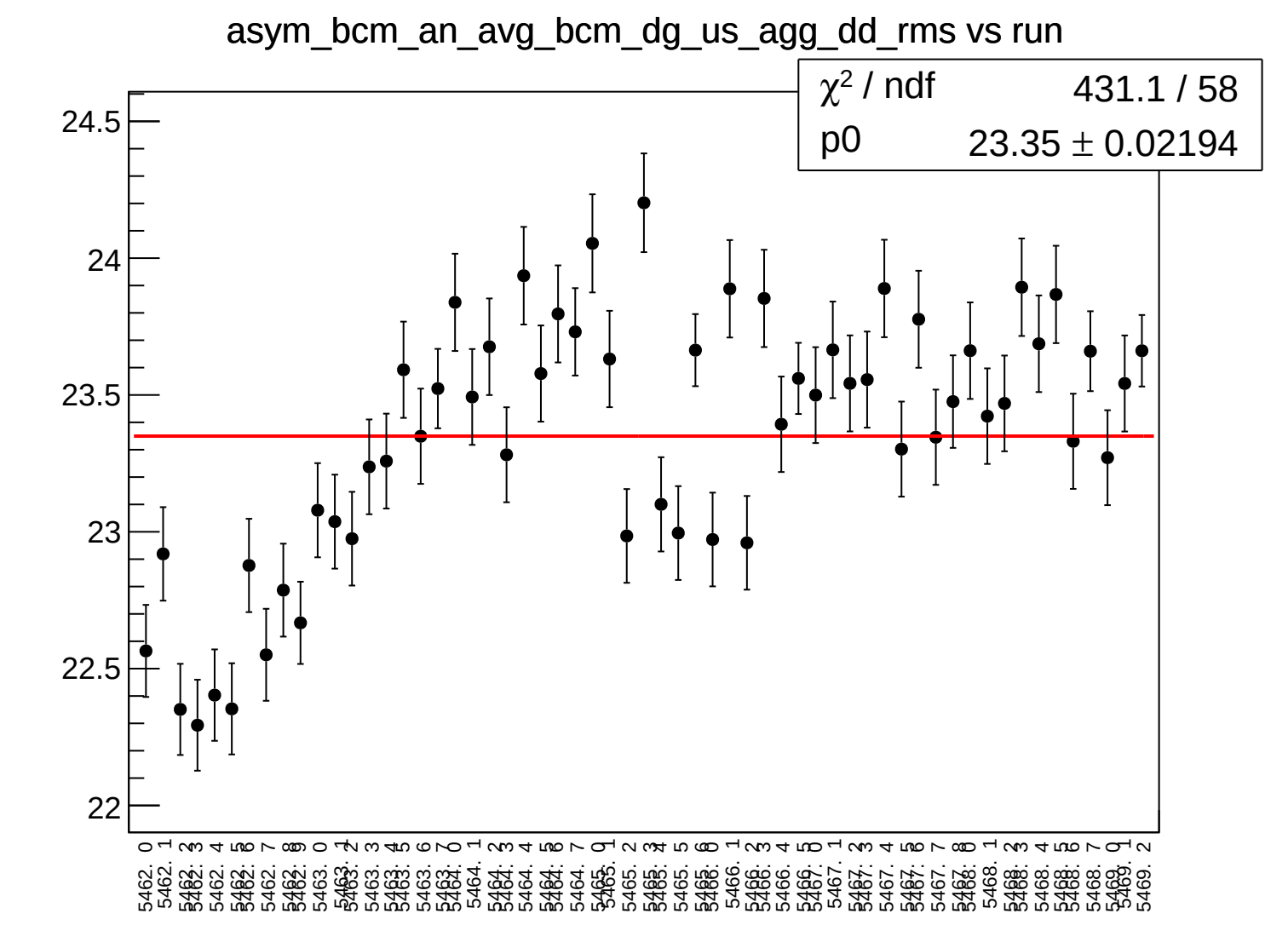

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.81 / 58
p0 −15.16 ± 22.1
pull
Entries 59
Mean −720.8
Std Dev 747.3

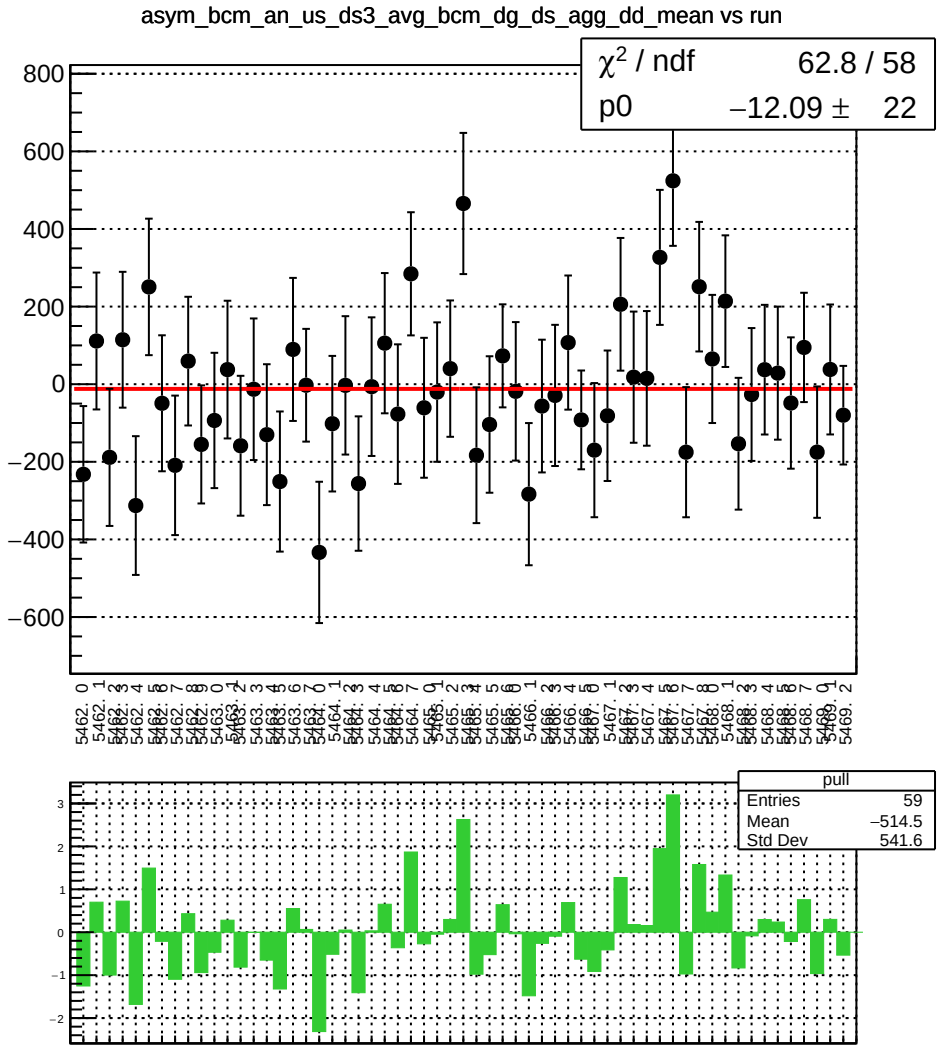

pull1D
Entries 59
Mean −0.005444
Std Dev 1.032

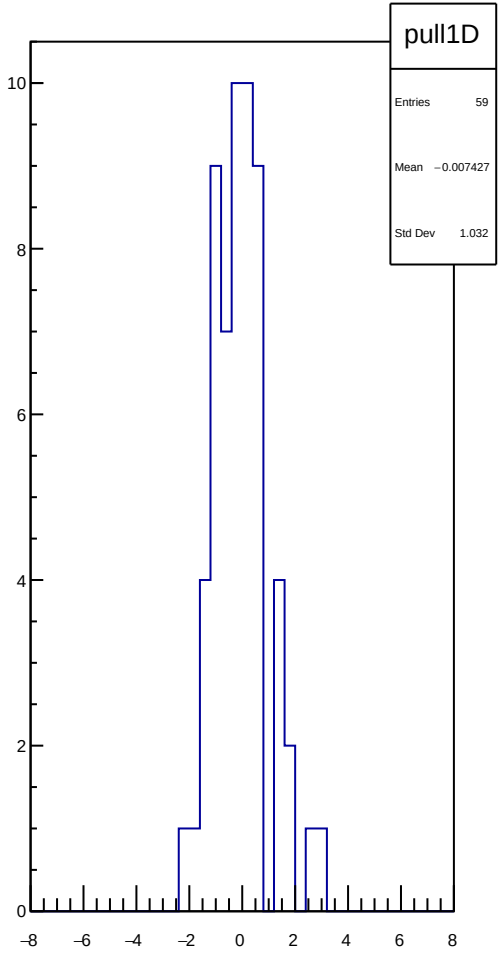

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 852.2 / 58
p0 16.62 ± 0.01563
17.5
17
16.5
16
15.5

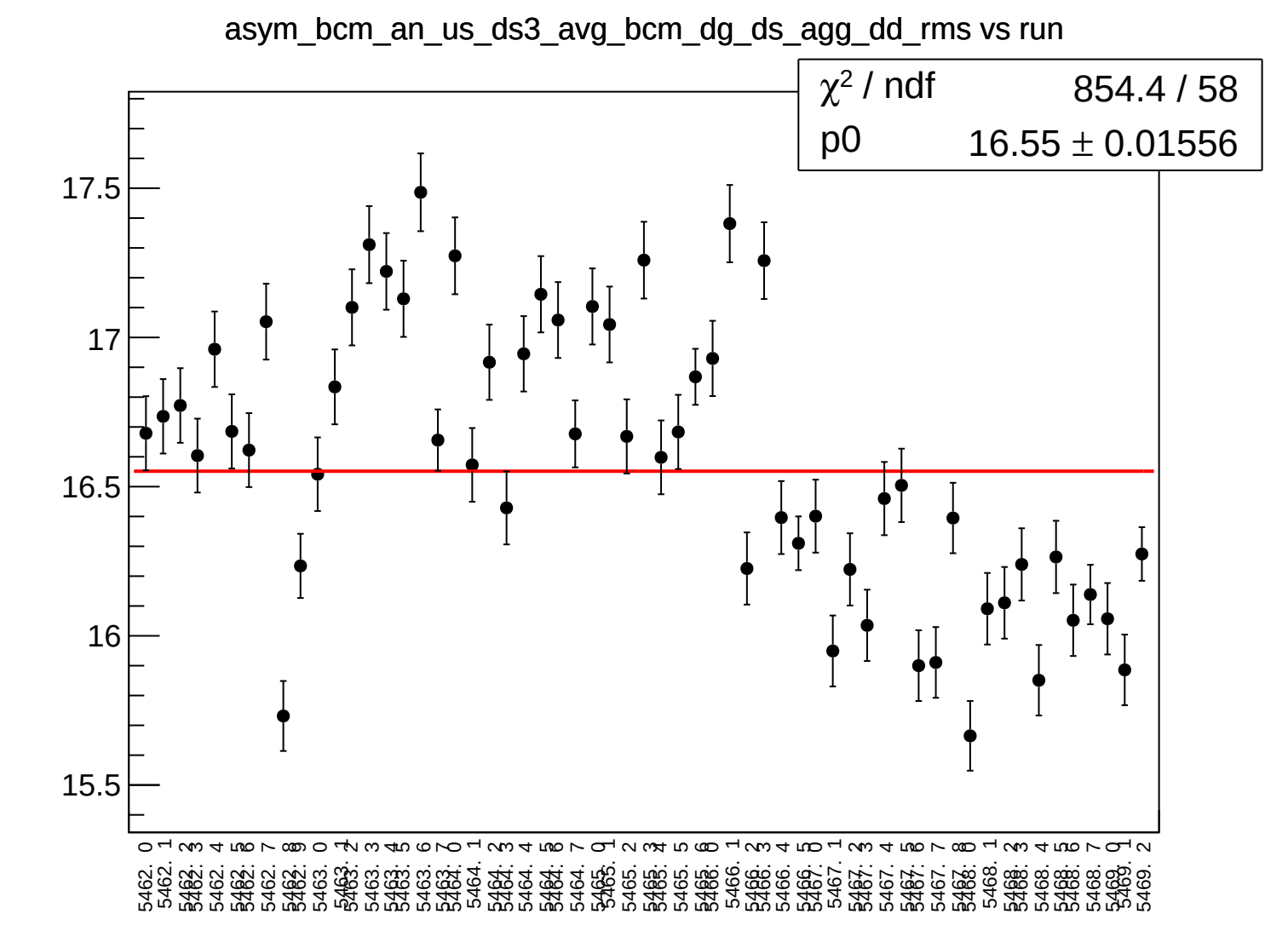

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 46.56 / 58
p0 28.12 ± 31.03
1000
500
0
−500
−1000
pull
Entries 59
Mean 116.6
Std Dev 103.3
2
1
0
−1
−2

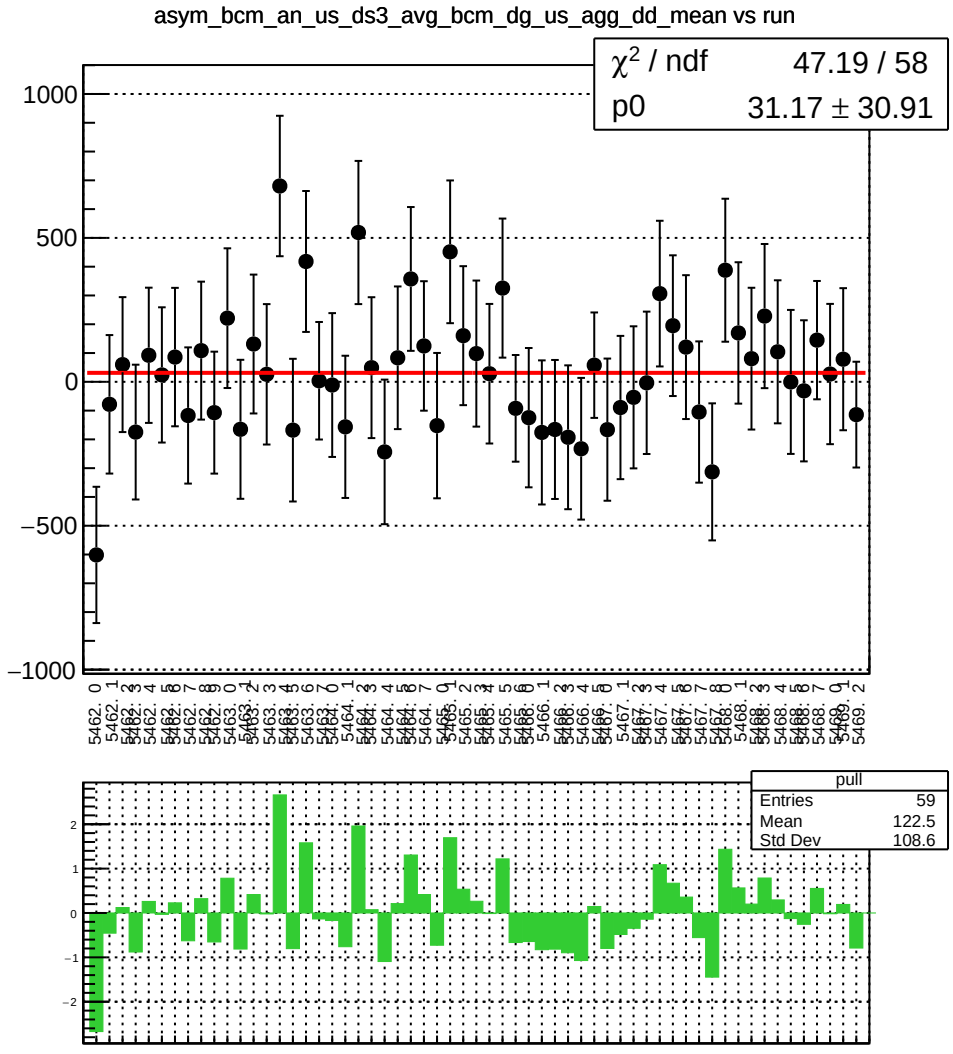

pull1D
Entries 59
Mean 0.01176
Std Dev 0.8883
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

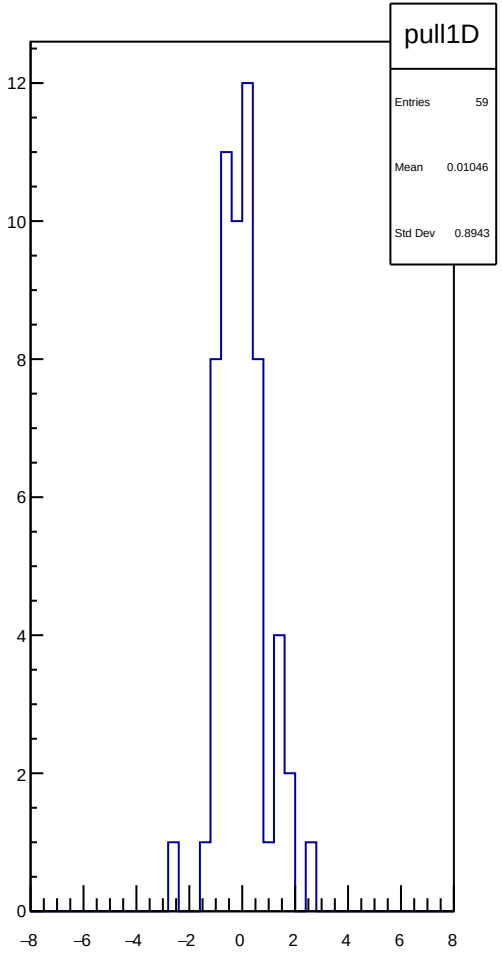

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 431.1 / 58
p0 23.35 ± 0.02194
24.5
24
23.5
23
22.5
22

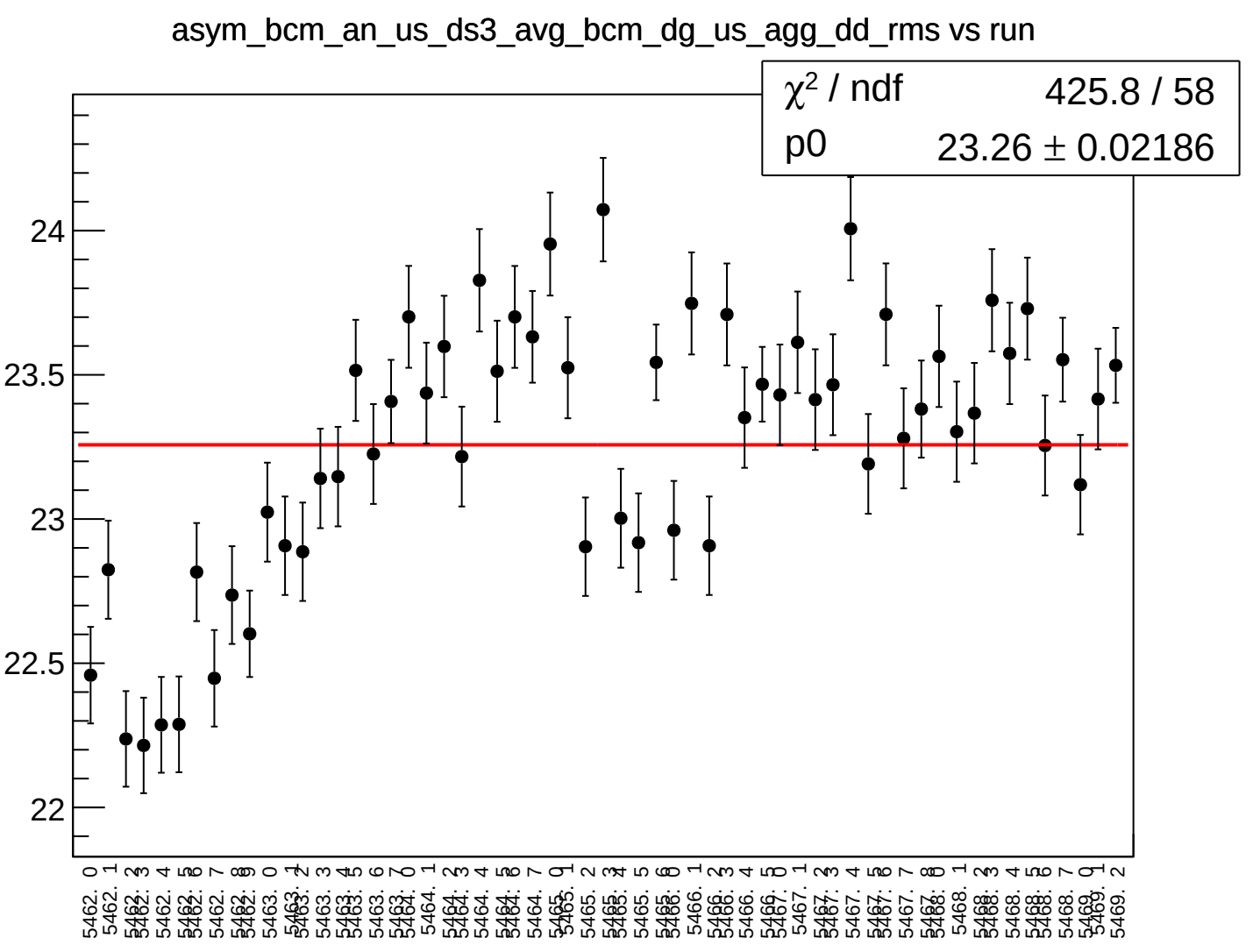

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 62.8 / 58
p0 −12.09 ± 22
pull
Entries 59
Mean −514.5
Std Dev 541.6

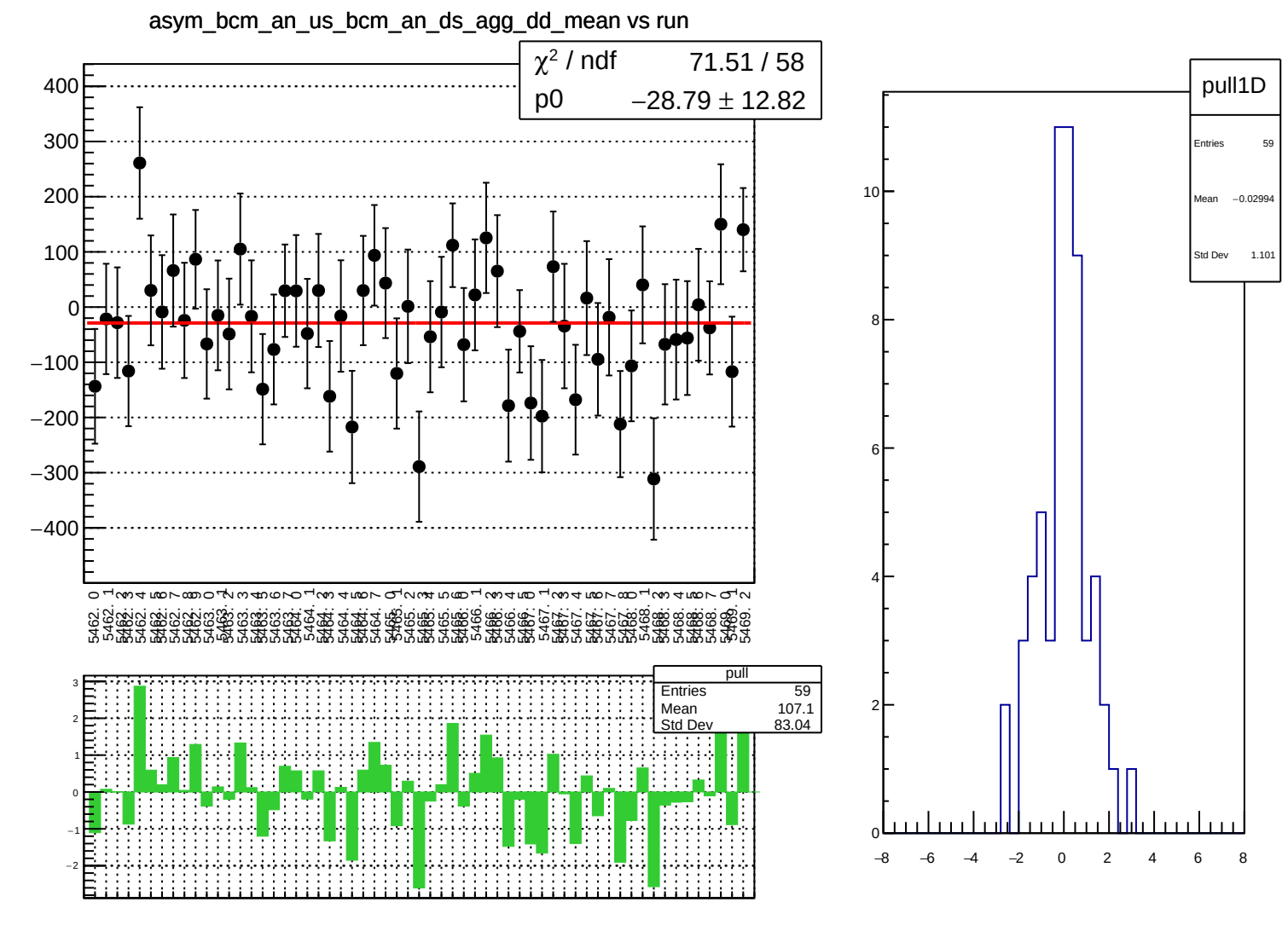

pull1D
Entries 59
Mean −0.007427
Std Dev 1.032

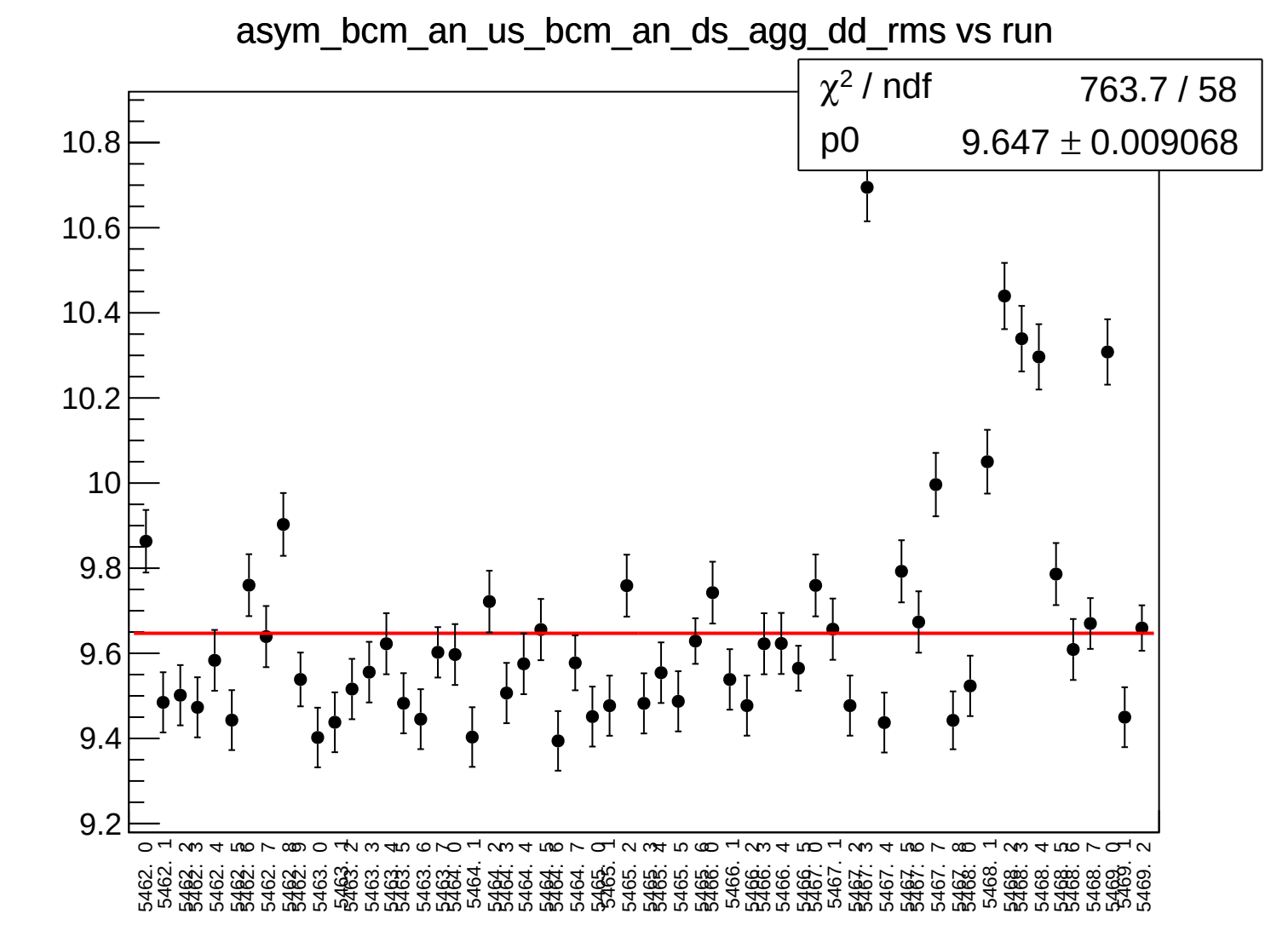

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 854.4 / 58
p0 16.55 ± 0.01556
17.5
17
16.5
16
15.5

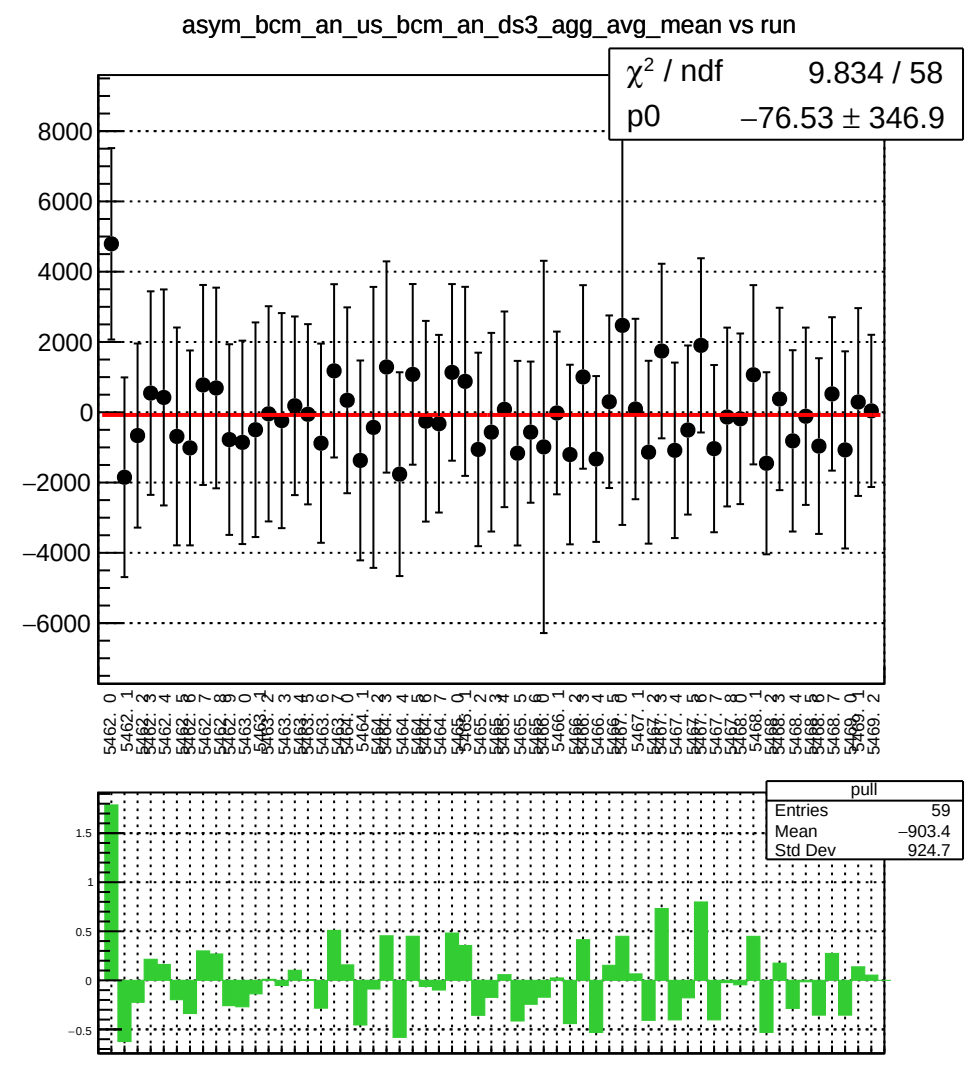

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 47.19 / 58
p0 31.17 ± 30.91
pull
Entries 59
Mean 122.5
Std Dev 108.6

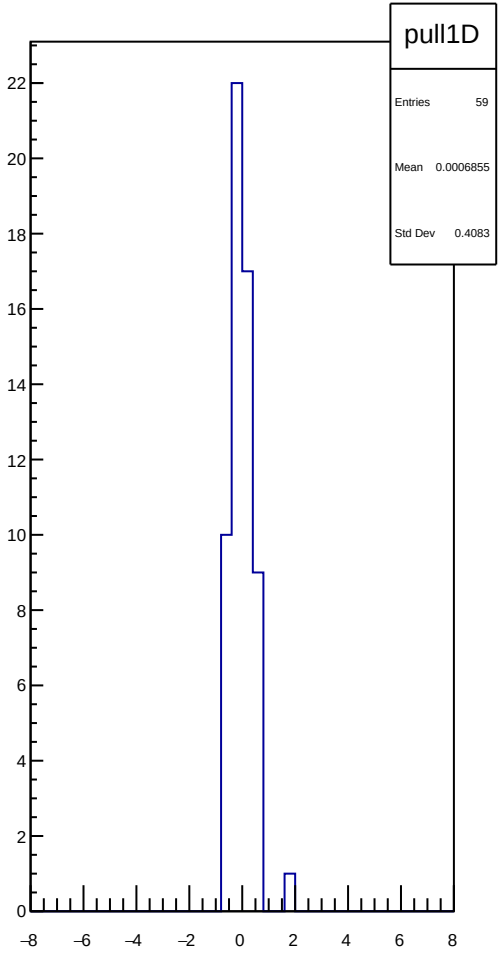

pull1D
Entries 59
Mean 0.01046
Std Dev 0.8943

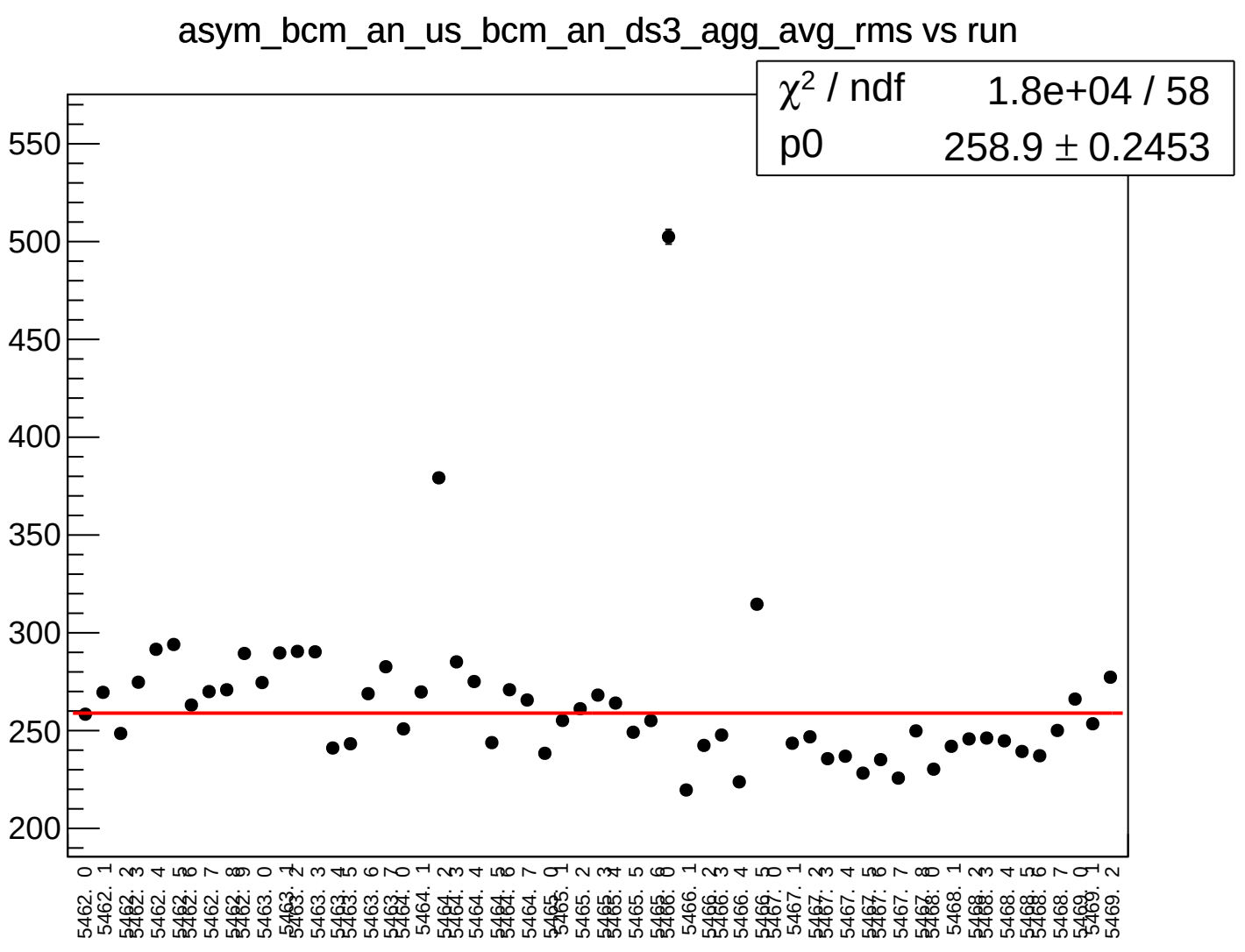

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 425.8 / 58
p0 23.26 ± 0.02186
24
23.5
23
22.5
22

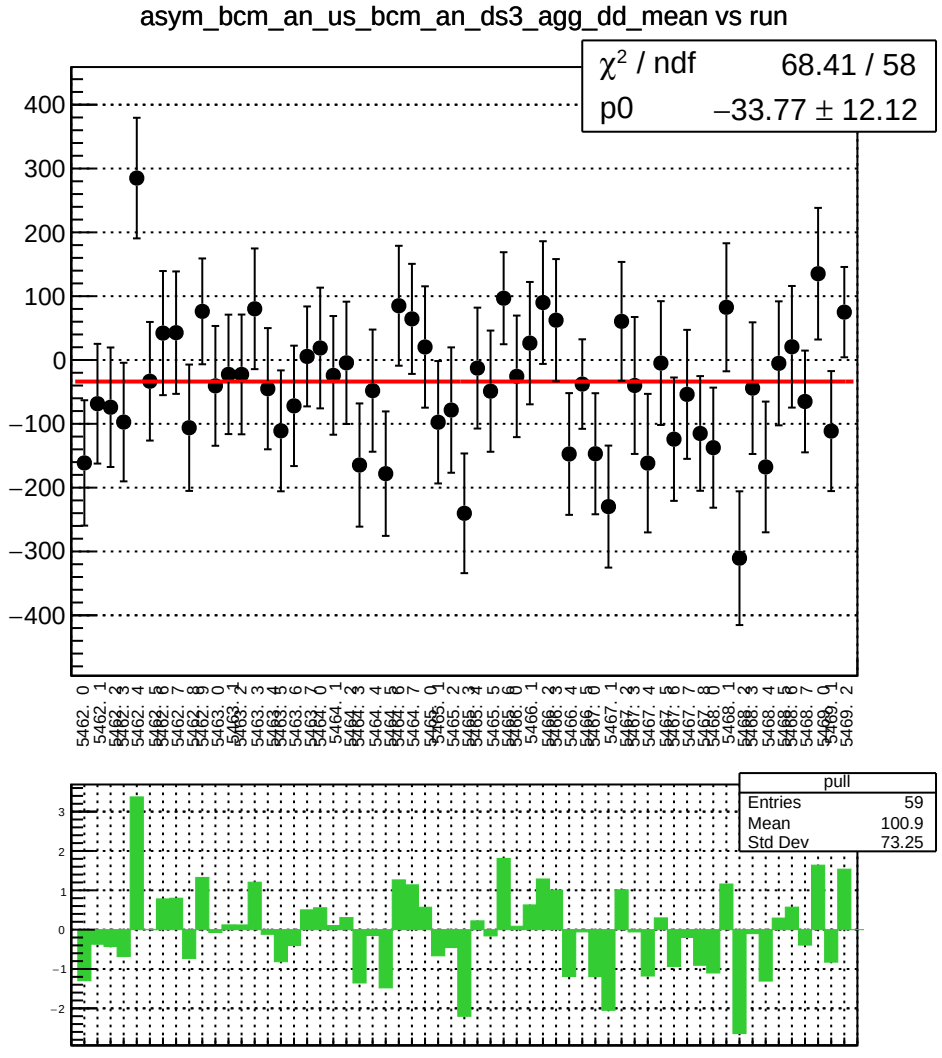

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 71.51 / 58
p0 −28.79 ± 12.82
pull
Entries 59
Mean 107.1
Std Dev 83.04
pull1D
Entries 59
Mean −0.02994
Std Dev 1.101

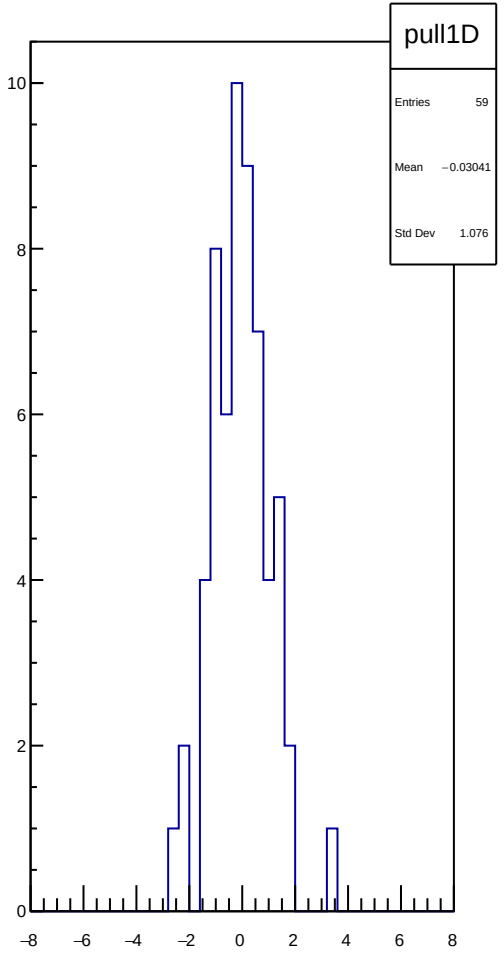

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 763.7 / 58
p0 9.647 ± 0.009068
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

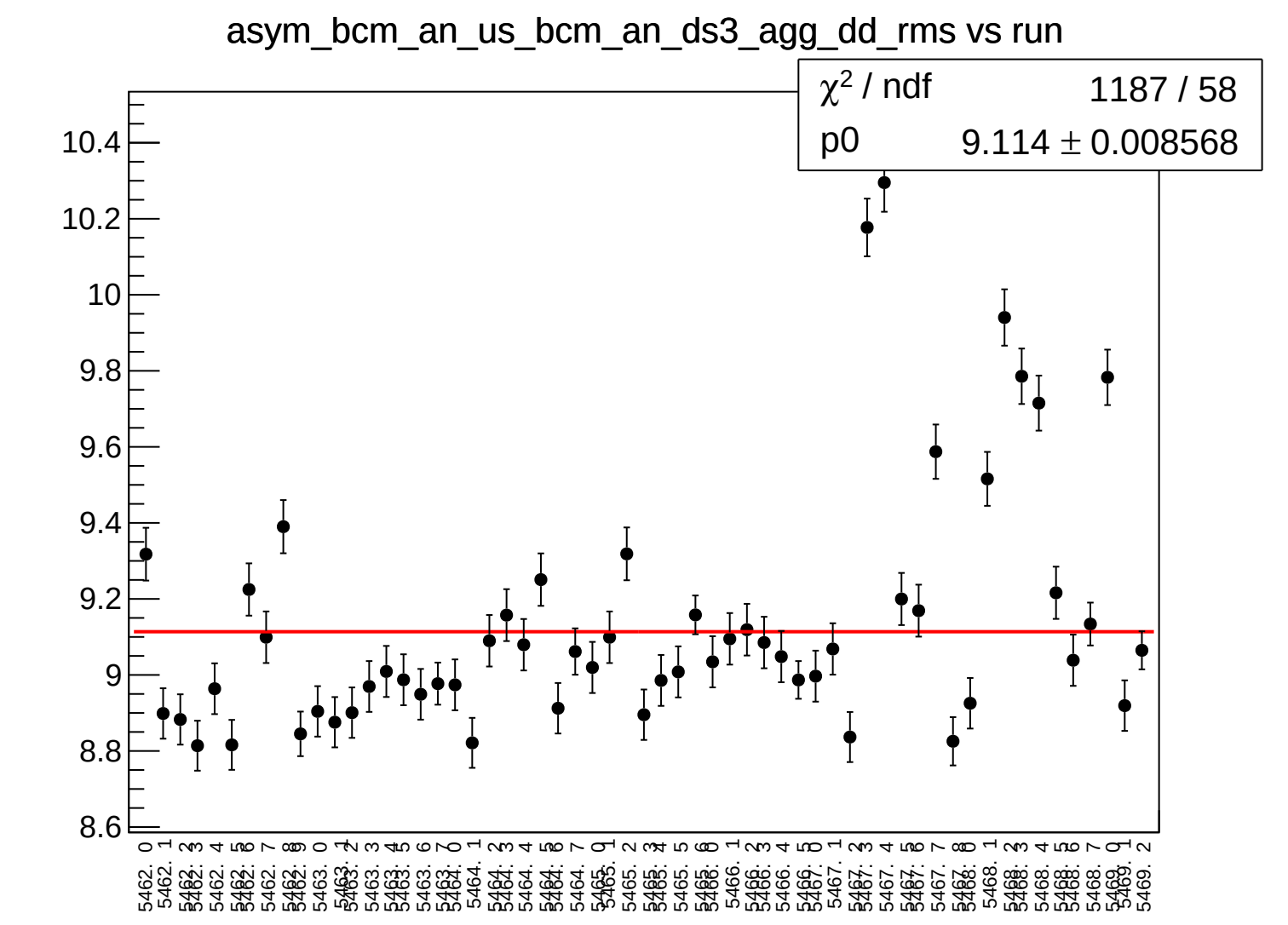

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 9.834 / 58
p0 −76.53 ± 346.9
pull
Entries 59
Mean −903.4
Std Dev 924.7

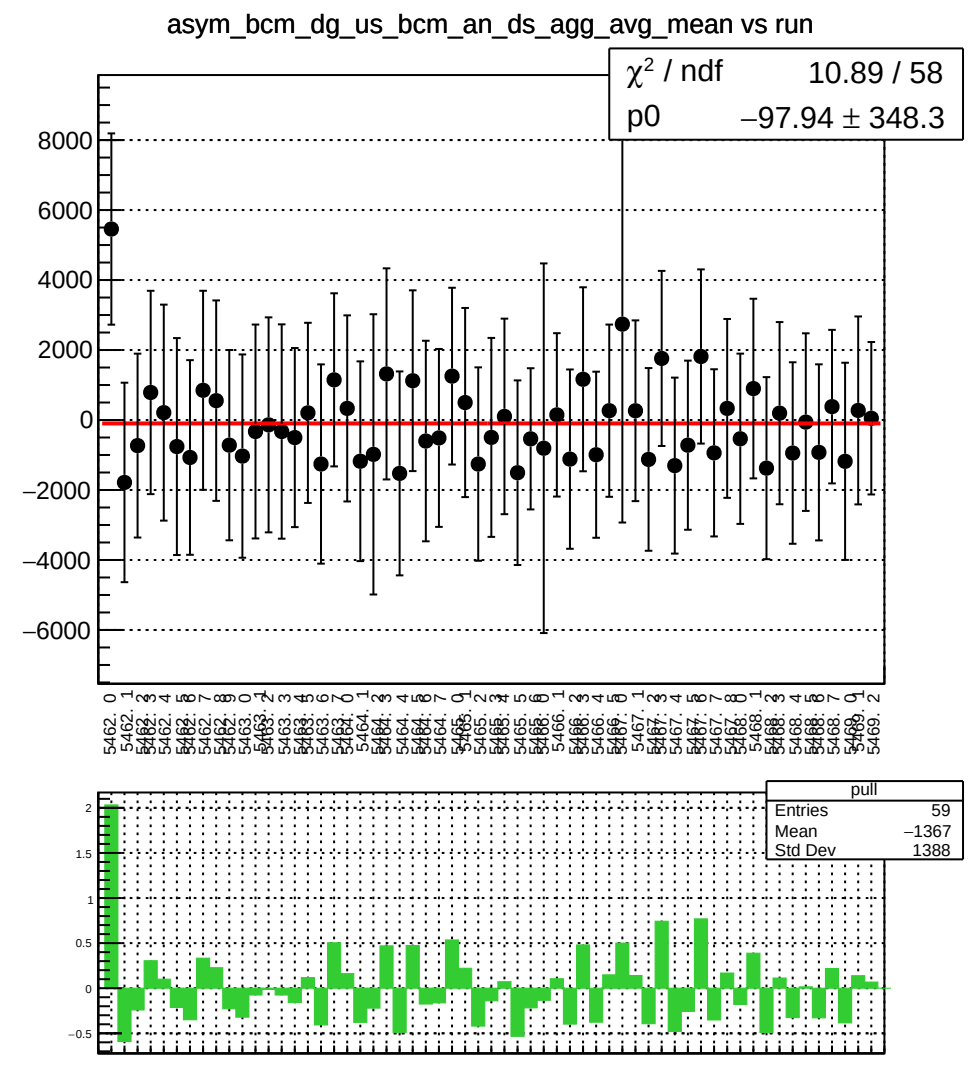

pull1D
Entries 59
Mean 0.0006855
Std Dev 0.4083

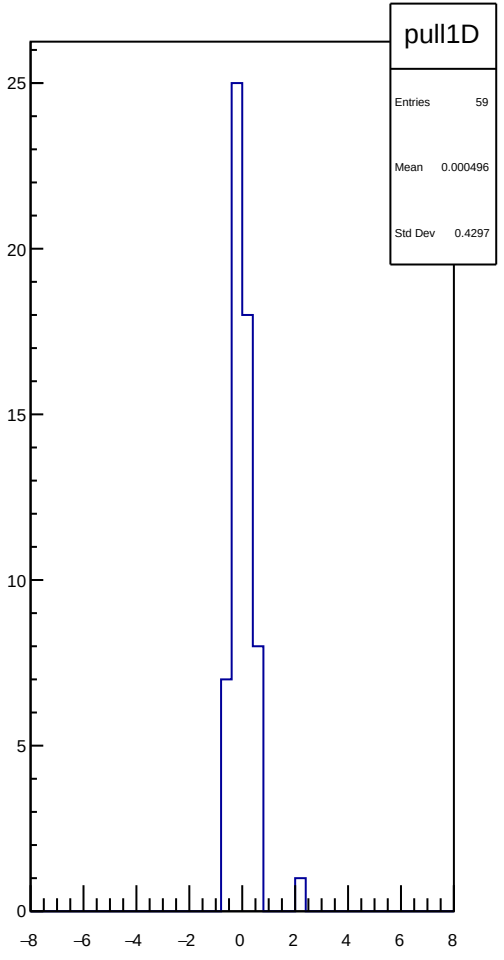

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.8e+04 / 58
p0 258.9 ± 0.2453
550
500
450
400
350
300
250
200

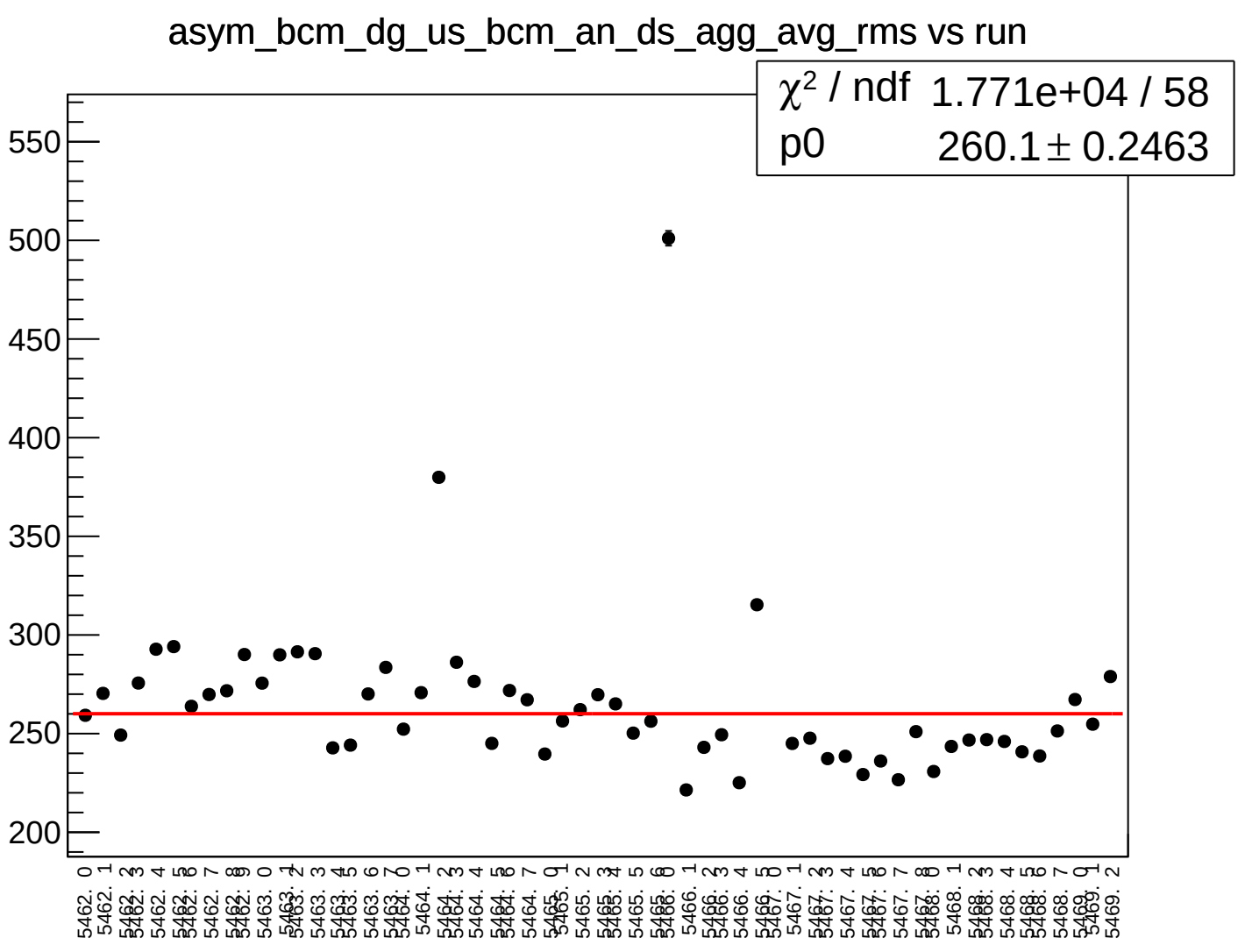

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 68.41 / 58
p0 −33.77 ± 12.12
pull
Entries 59
Mean 100.9
Std Dev 73.25

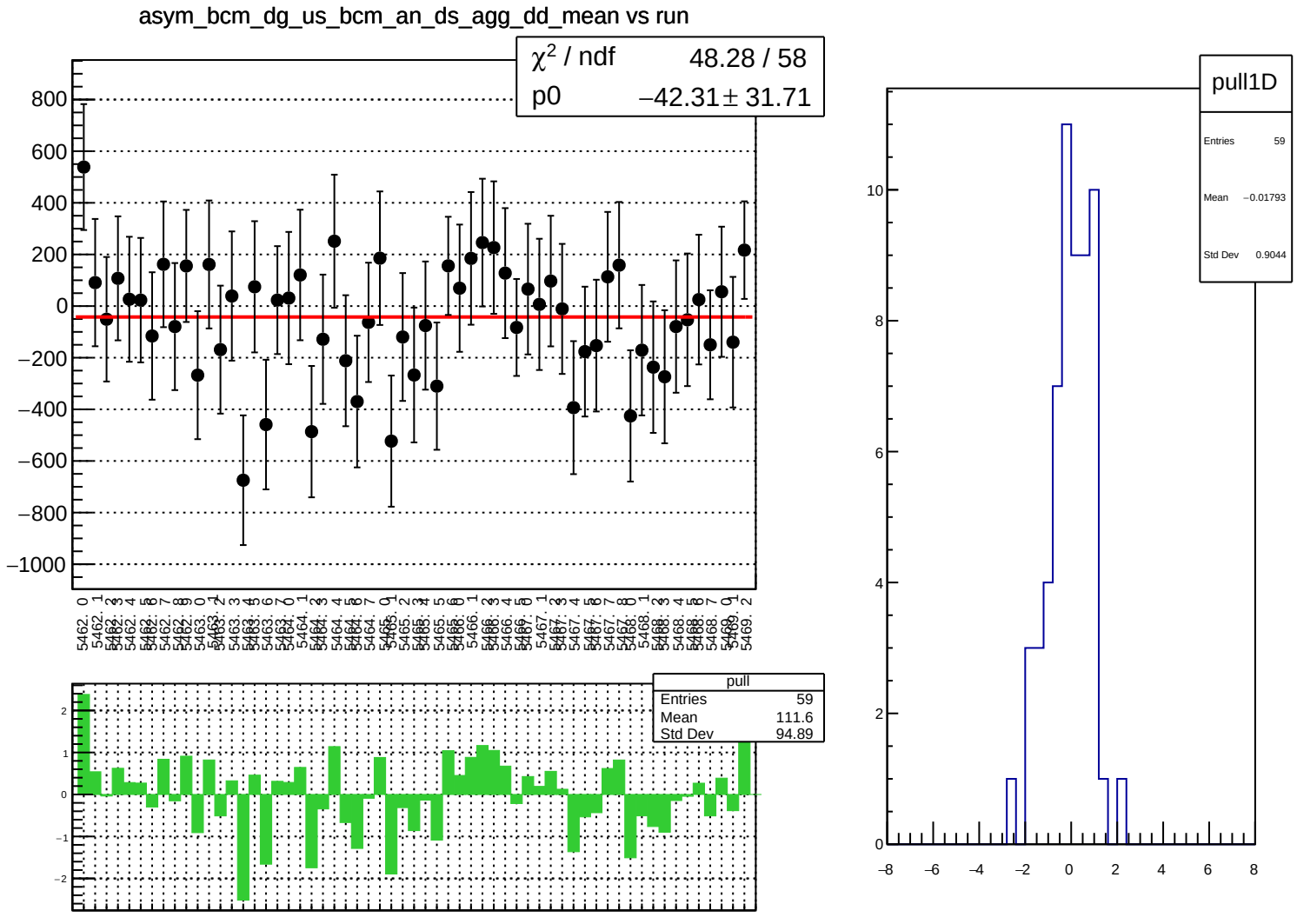

pull1D
Entries 59
Mean −0.03041
Std Dev 1.076

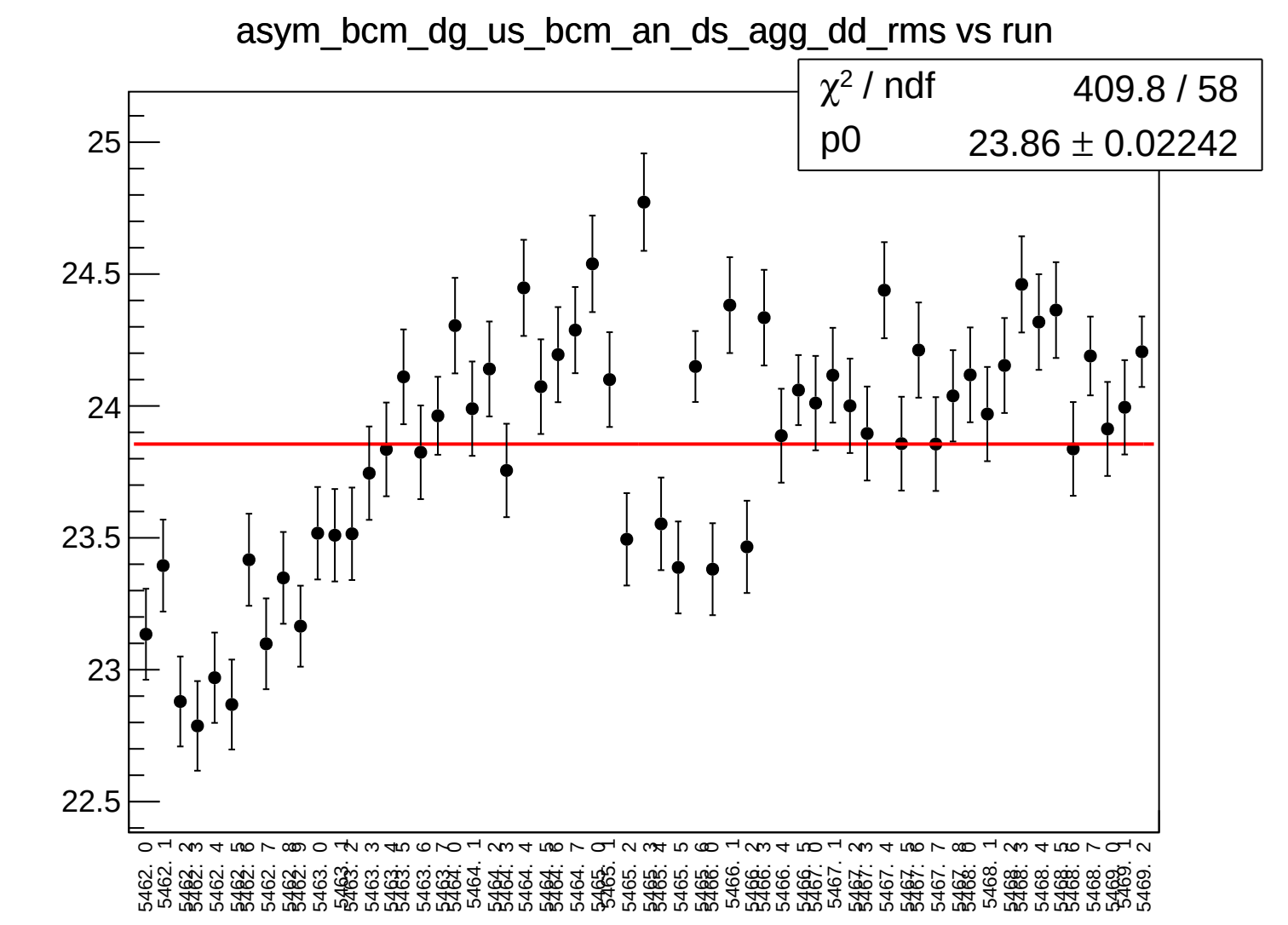

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1187 / 58
p0 9.114 ± 0.008568
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8
8.6

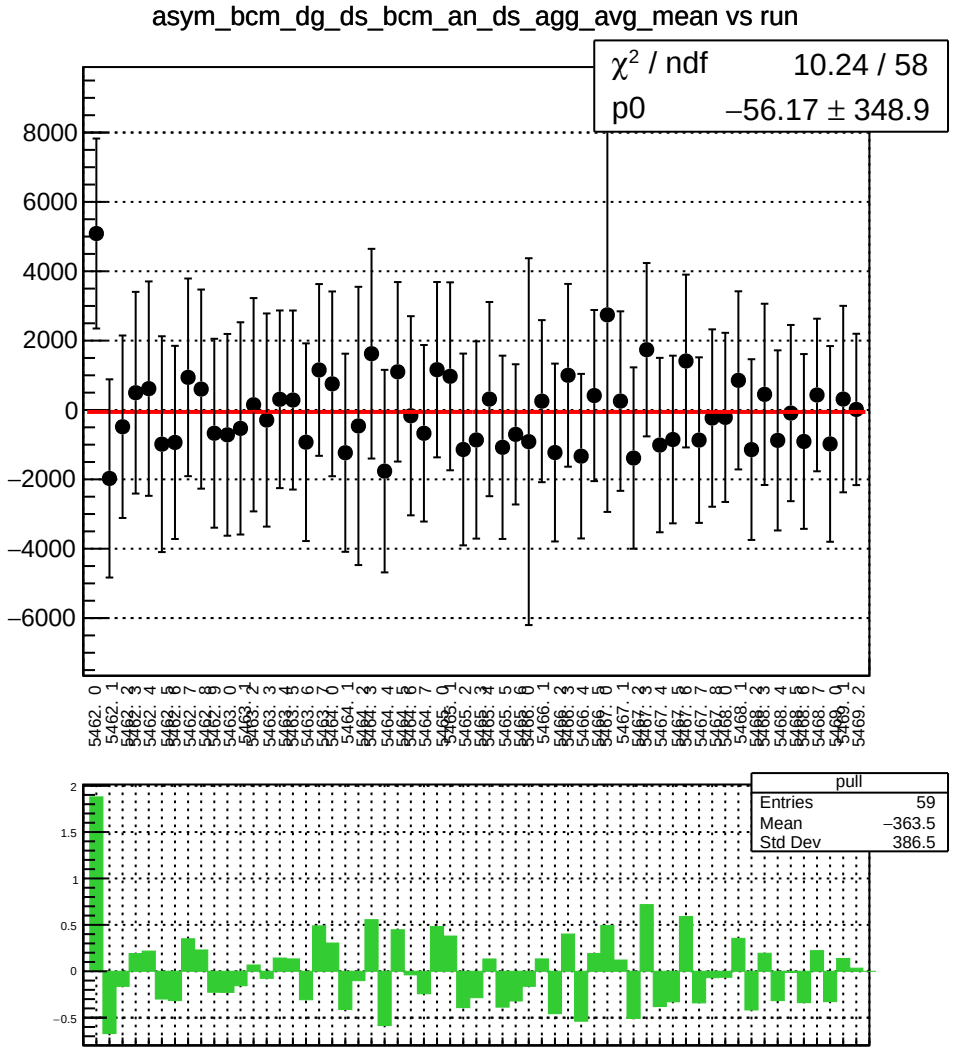

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.89 / 58
p0 −97.94 ± 348.3
pull
Entries 59
Mean −1367
Std Dev 1388

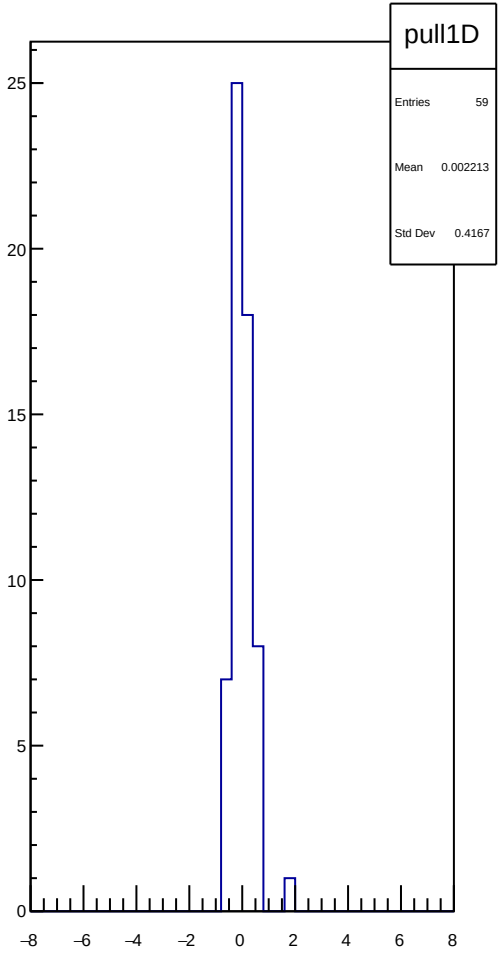

pull1D
Entries 59
Mean 0.000496
Std Dev 0.4297

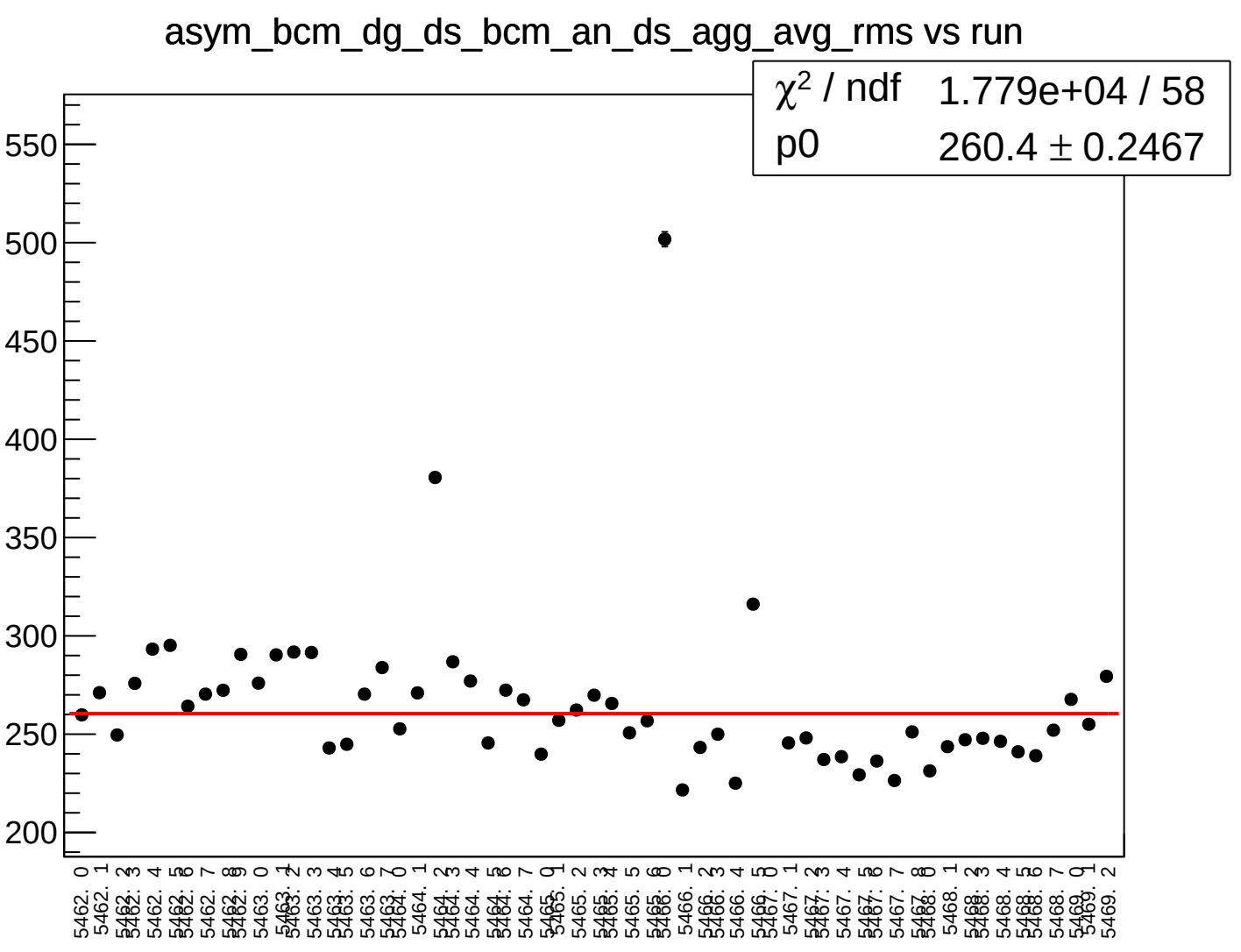

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.771e+04 / 58
p0 260.1 ± 0.2463
550
500
450
400
350
300
250
200

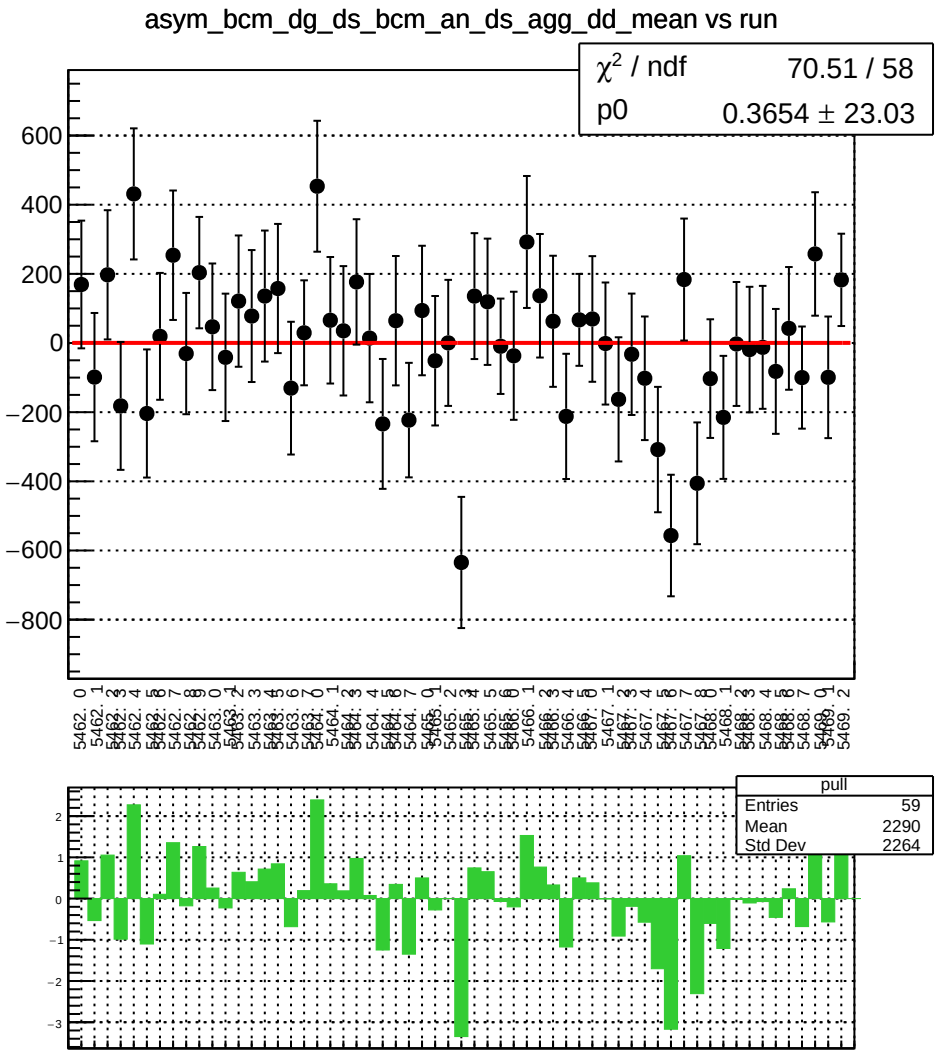

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 48.28 / 58
p0 −42.31 ± 31.71
pull
Entries 59
Mean 111.6
Std Dev 94.89
pull1D
Entries 59
Mean −0.01793
Std Dev 0.9044

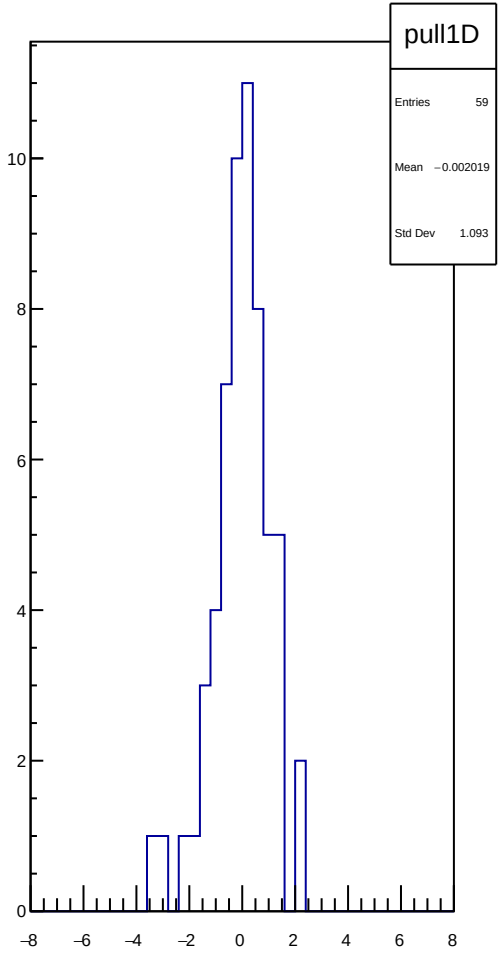

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 409.8 / 58
p0 23.86 ± 0.02242
25
24.5
24
23.5
23
22.5

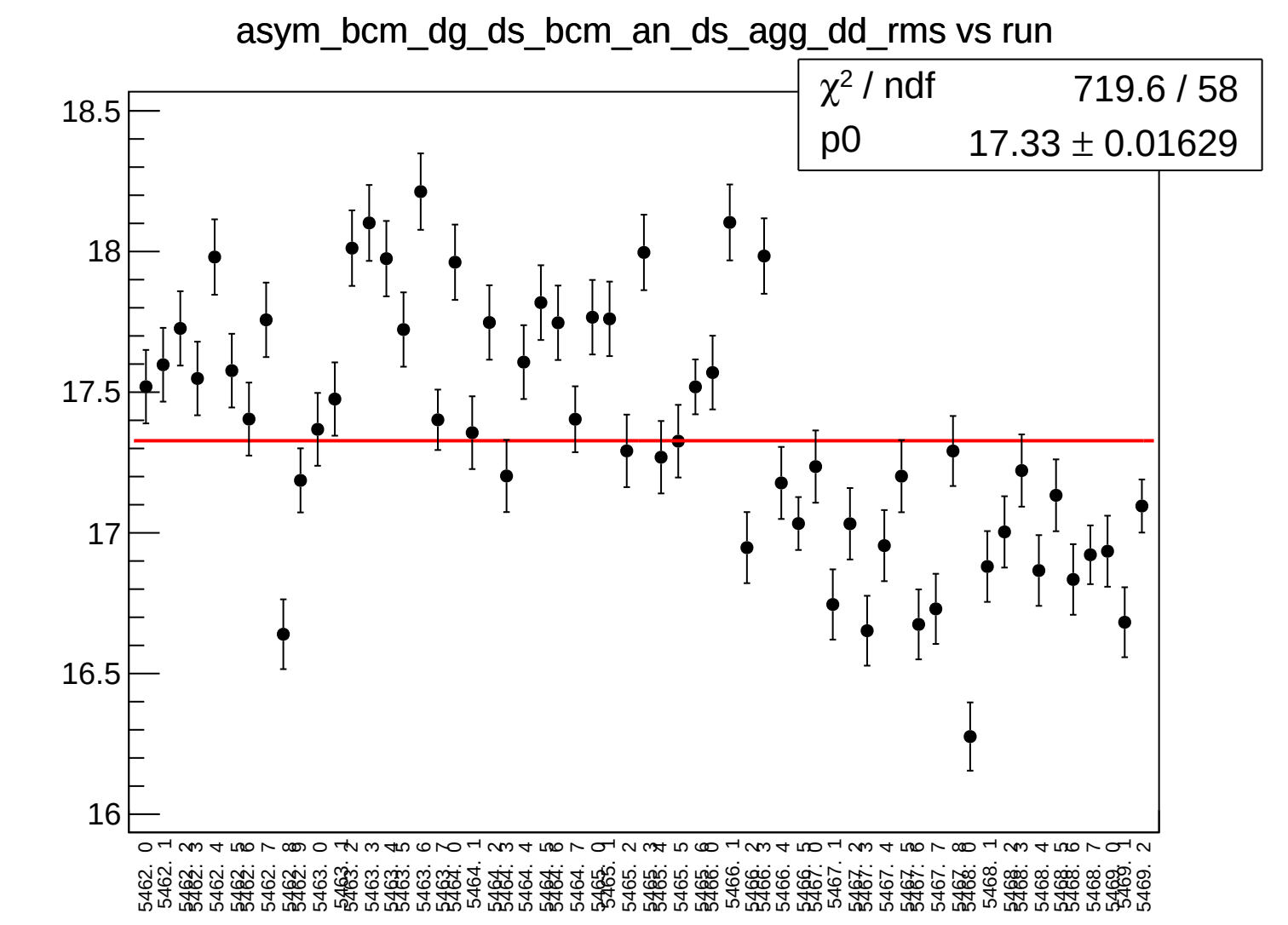

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 10.24 / 58
p0 −56.17 ± 348.9
pull
Entries 59
Mean −363.5
Std Dev 386.5

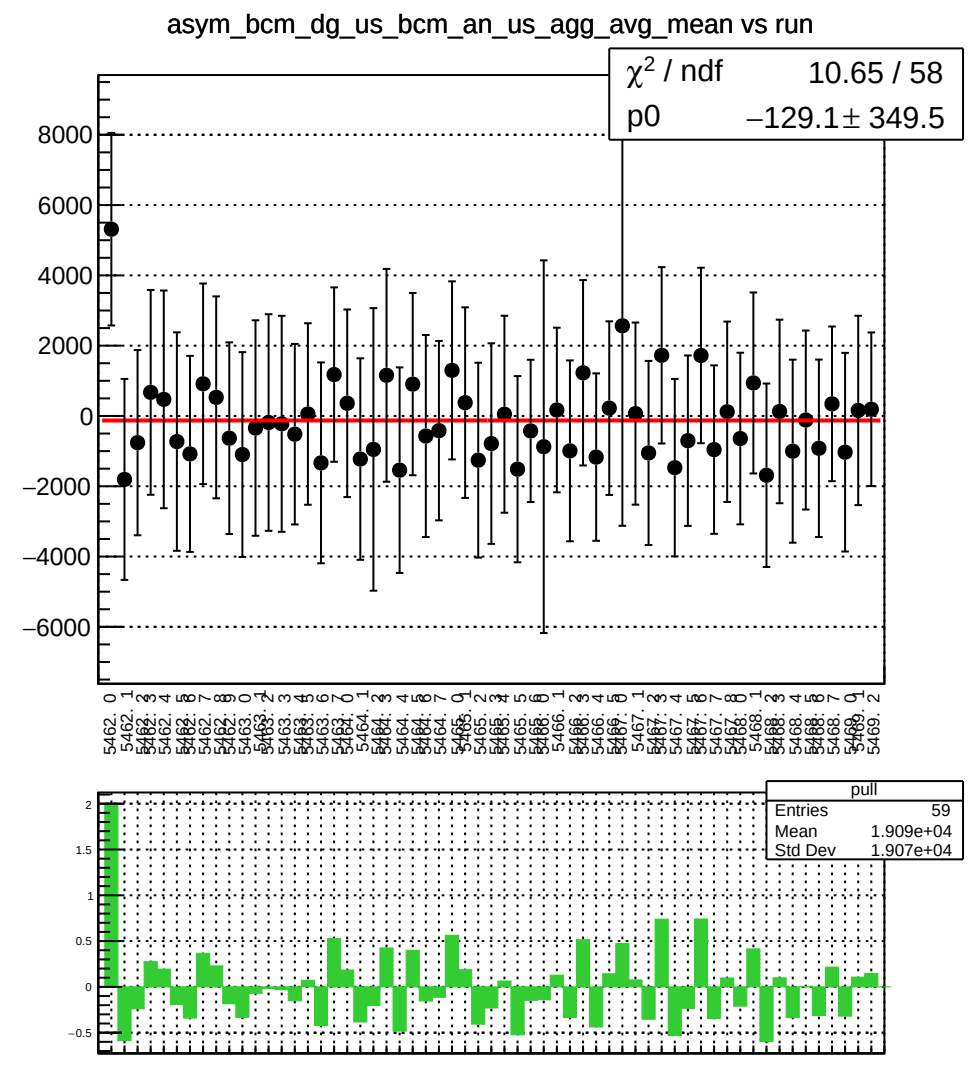

pull1D
Entries 59
Mean 0.002213
Std Dev 0.4167

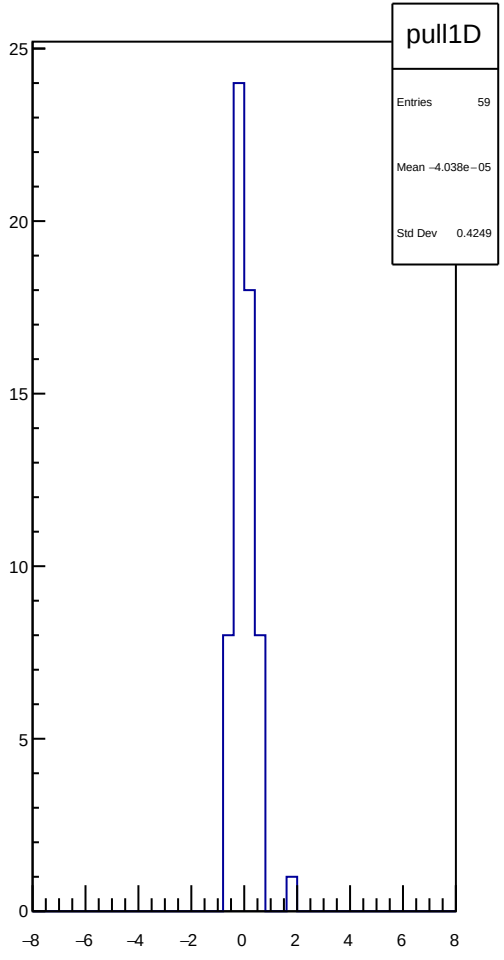

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.779e+04 / 58
p0 260.4 ± 0.2467
550
500
450
400
350
300
250
200

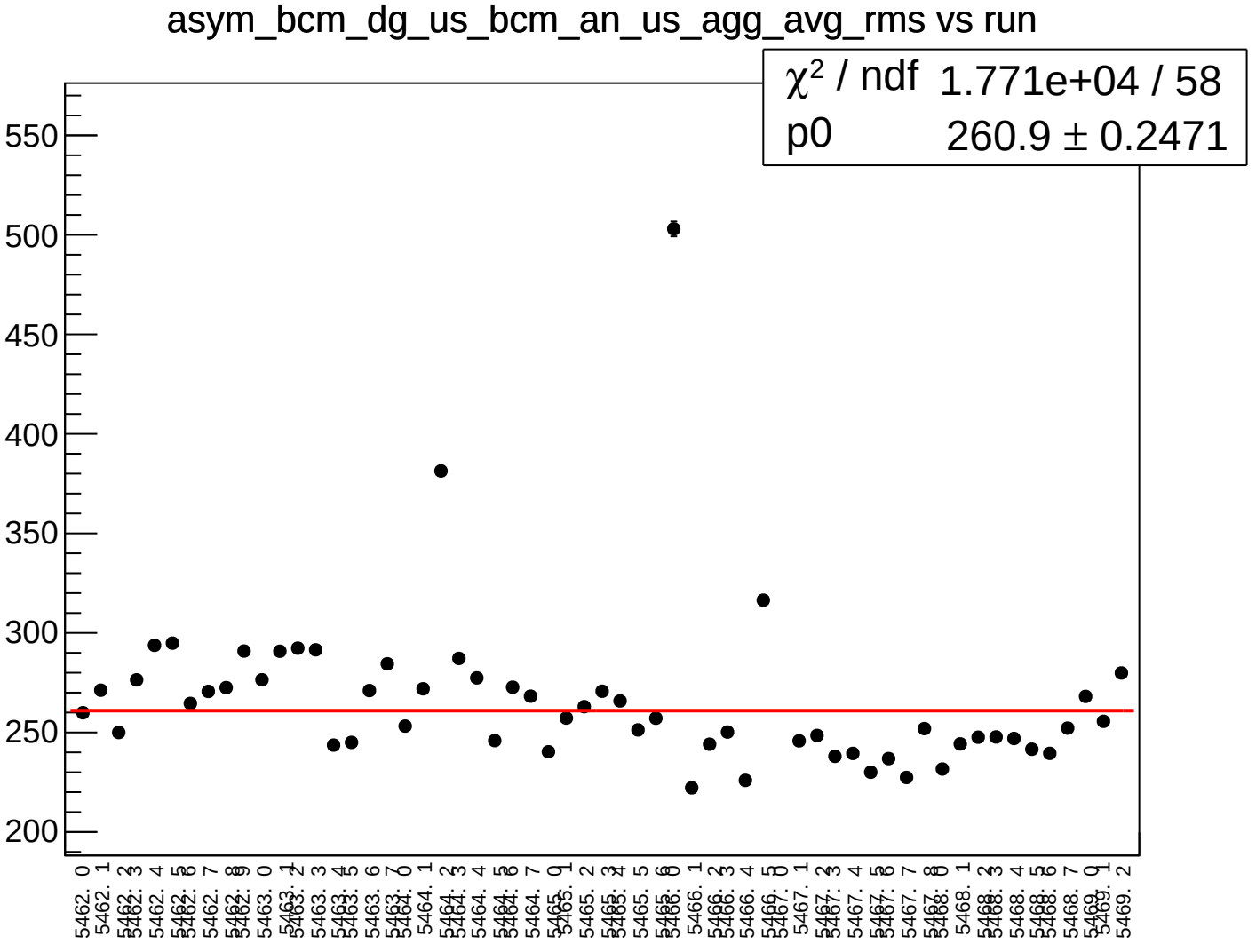

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.51 / 58
p0 0.3654 ± 23.03
pull
Entries 59
Mean 2290
Std Dev 2264

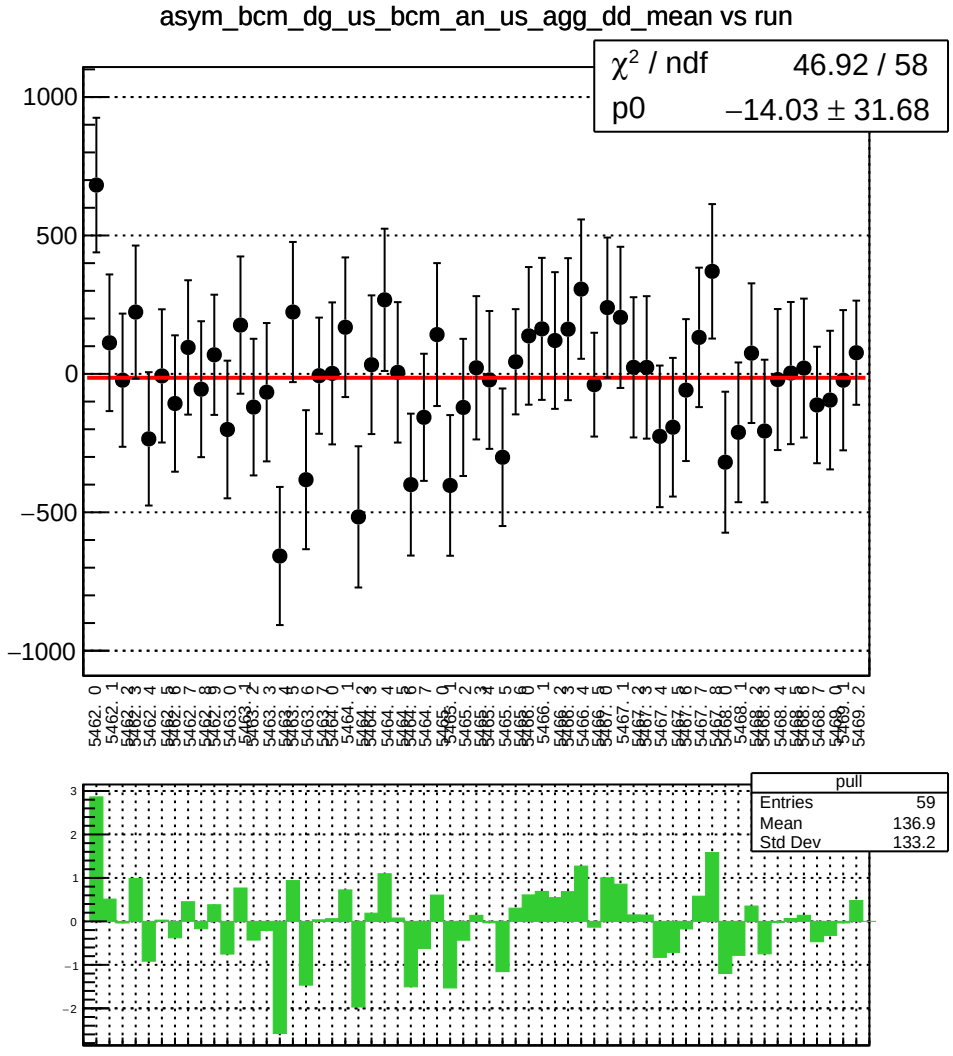

pull1D
Entries 59
Mean −0.002019
Std Dev 1.093

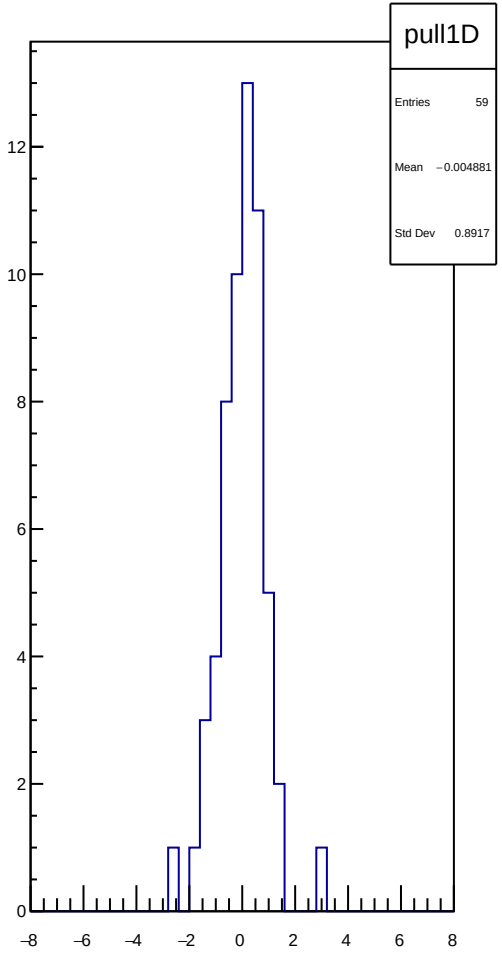

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 719.6 / 58
p0 17.33 ± 0.01629
18.5
18
17.5
17
16.5
16

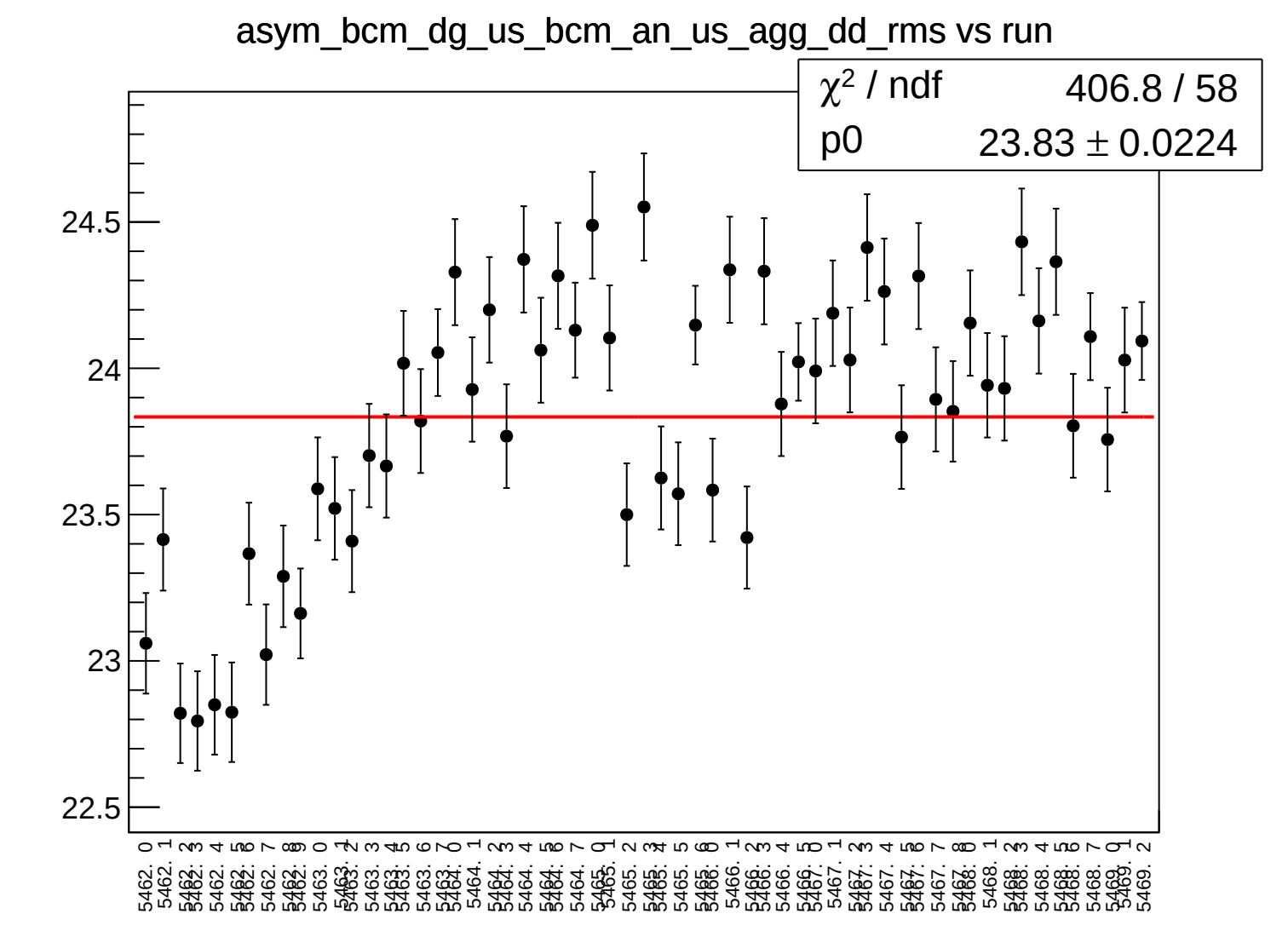

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.65 / 58
p0 −129.1± 349.5
pull
Entries 59
Mean 1.909e+04
Std Dev 1.907e+04

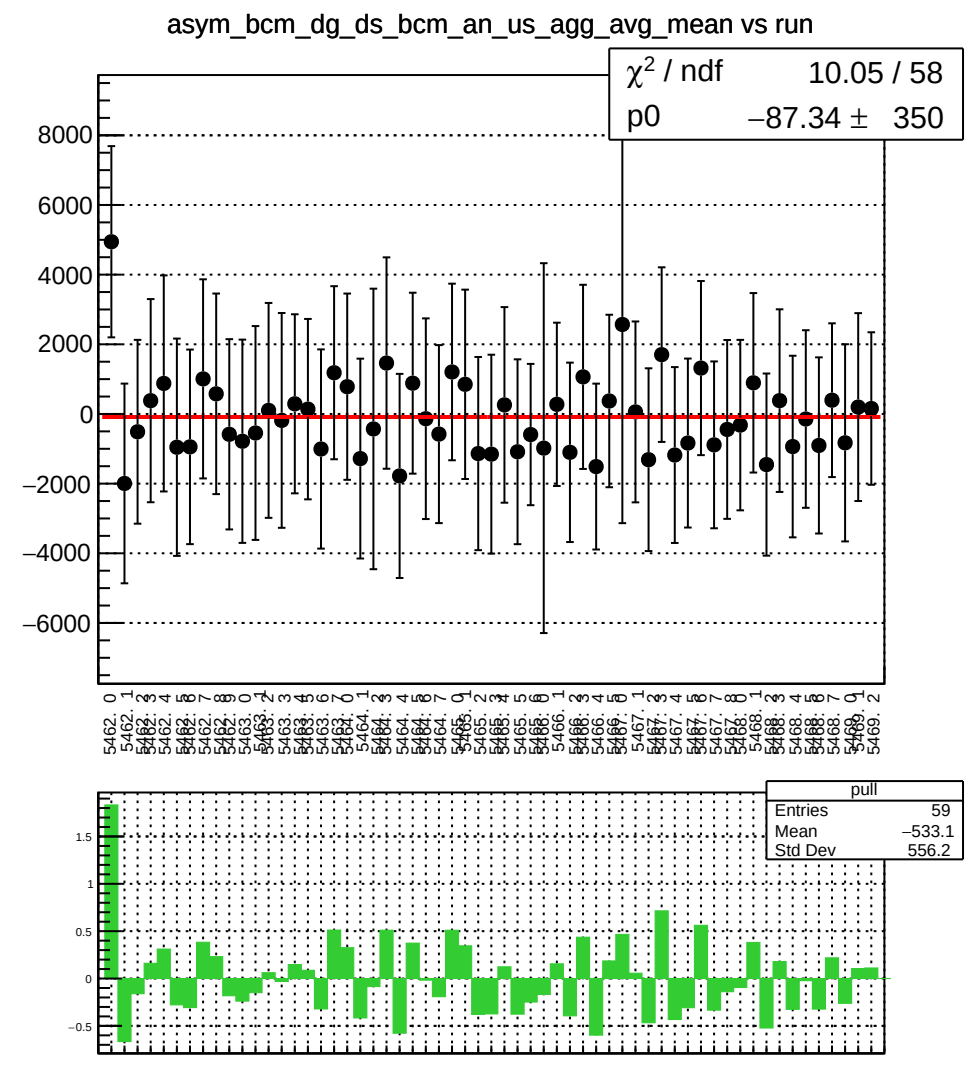

pull1D
Entries 59
Mean −4.038e−05
Std Dev 0.4249

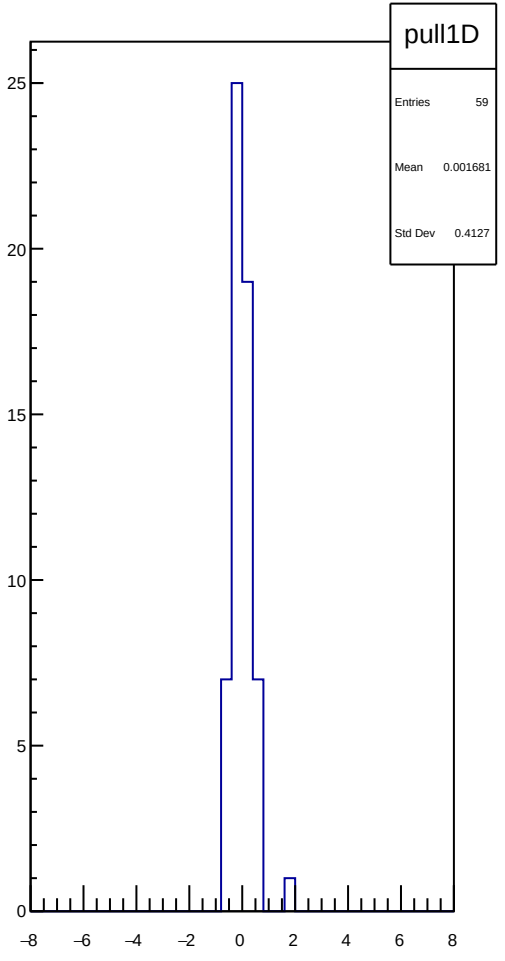

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.771e+04 / 58
p0 260.9 ± 0.2471
550
500
450
400
350
300
250
200

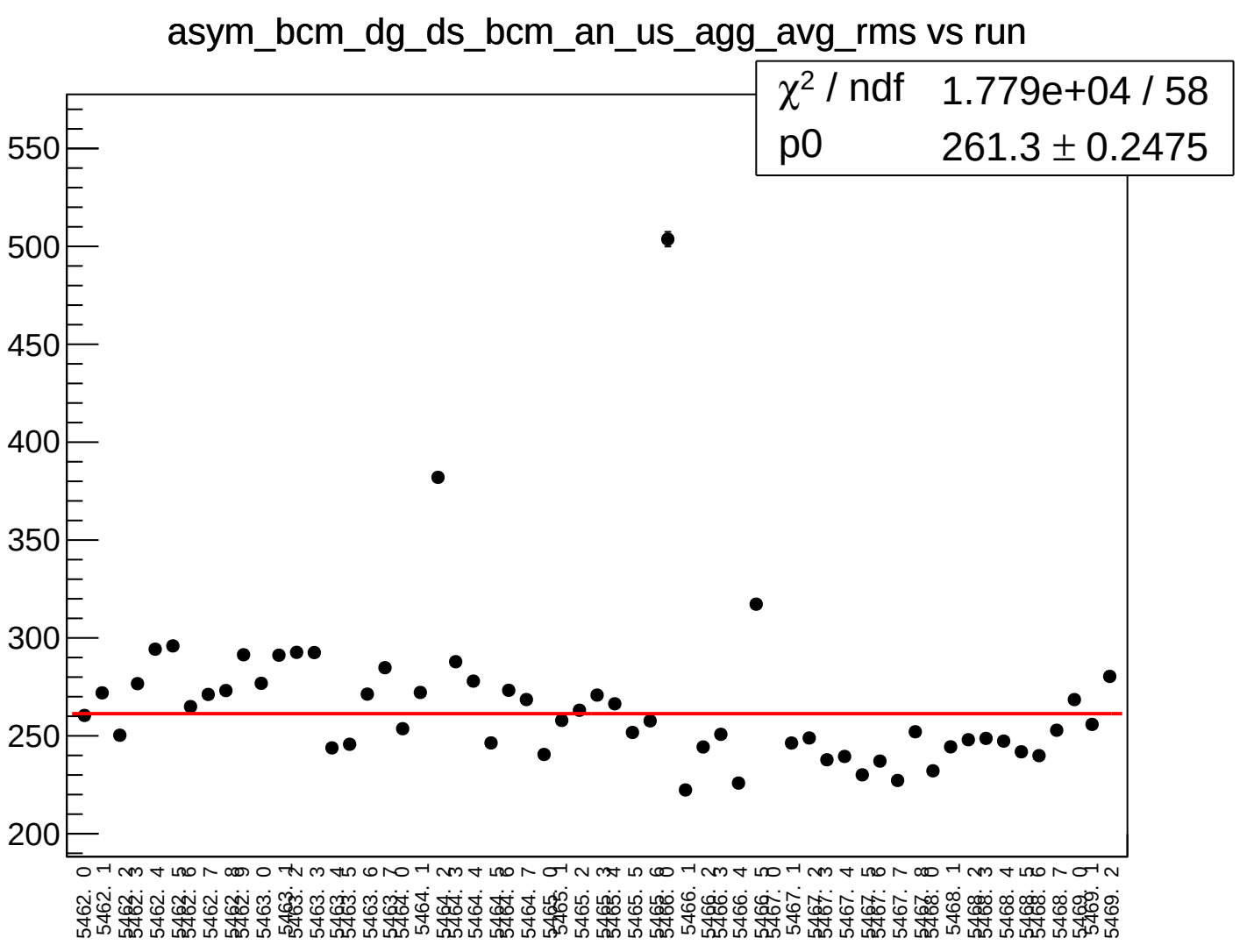

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 46.92 / 58
p0 −14.03 ± 31.68
pull
Entries 59
Mean 136.9
Std Dev 133.2

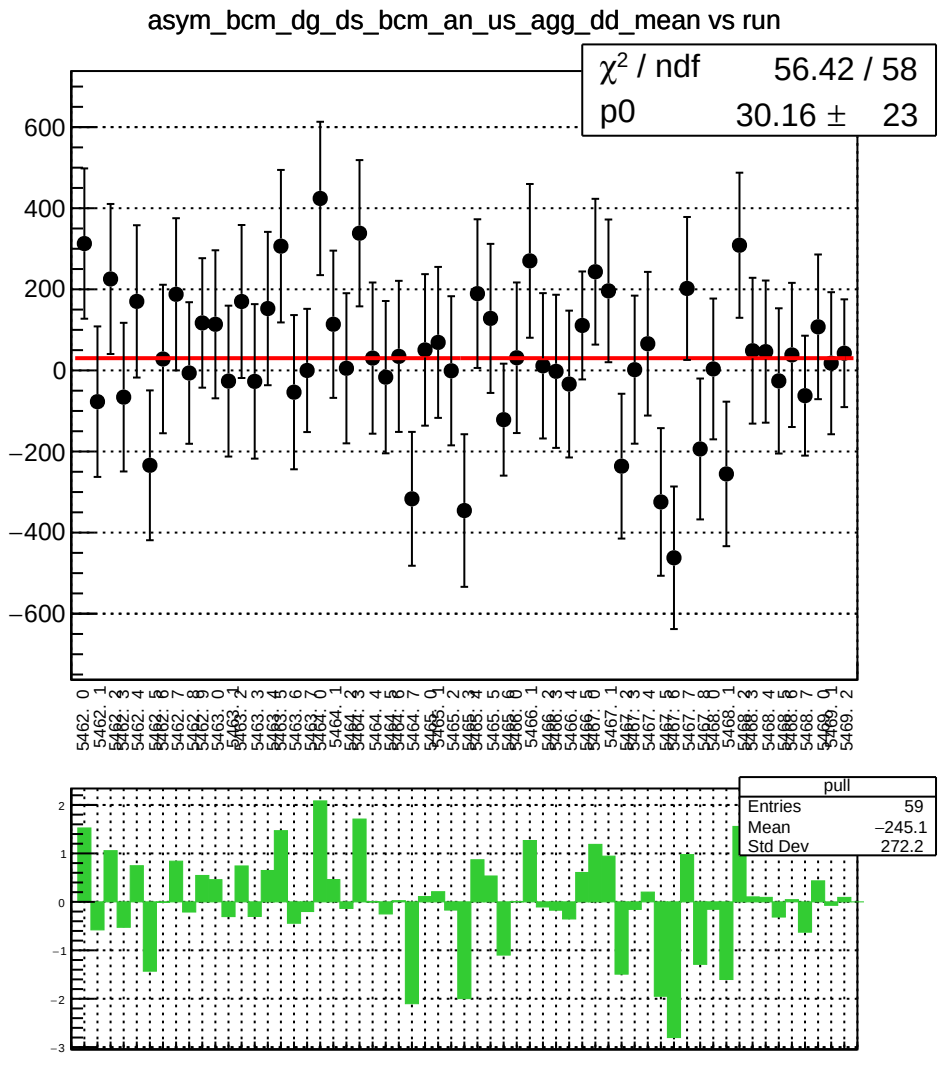

pull1D
Entries 59
Mean −0.004881
Std Dev 0.8917

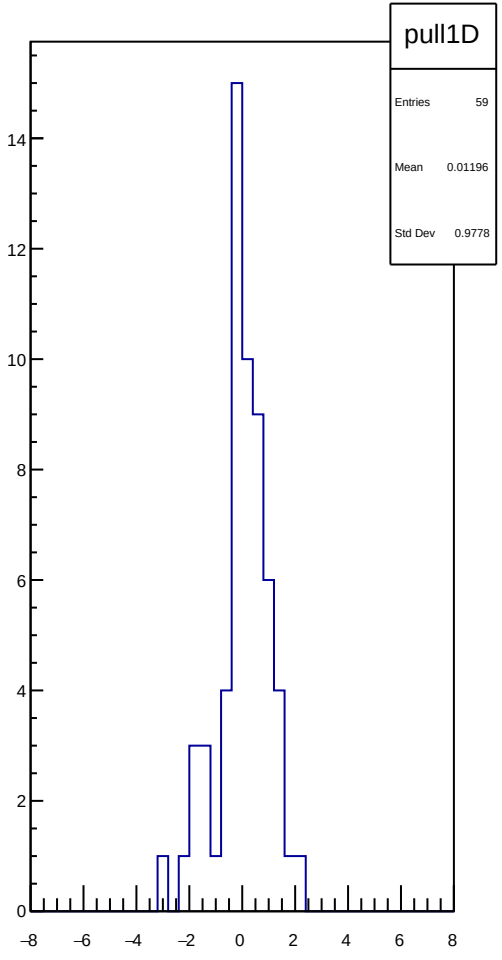

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 406.8 / 58
p0 23.83 ± 0.0224
24.5
24
23.5
23
22.5

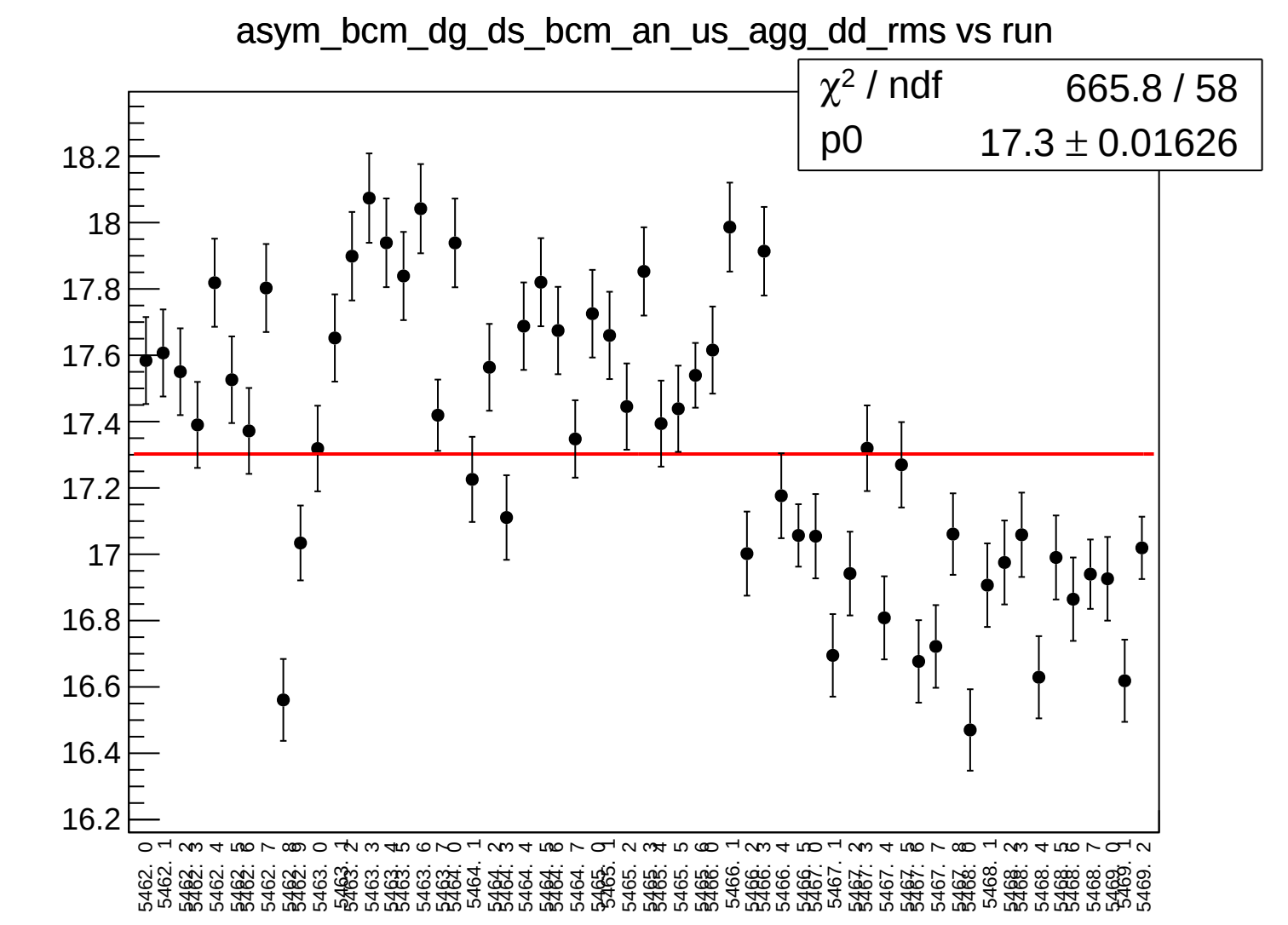

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 10.05 / 58
p0 −87.34 ± 350
pull
Entries 59
Mean −533.1
Std Dev 556.2

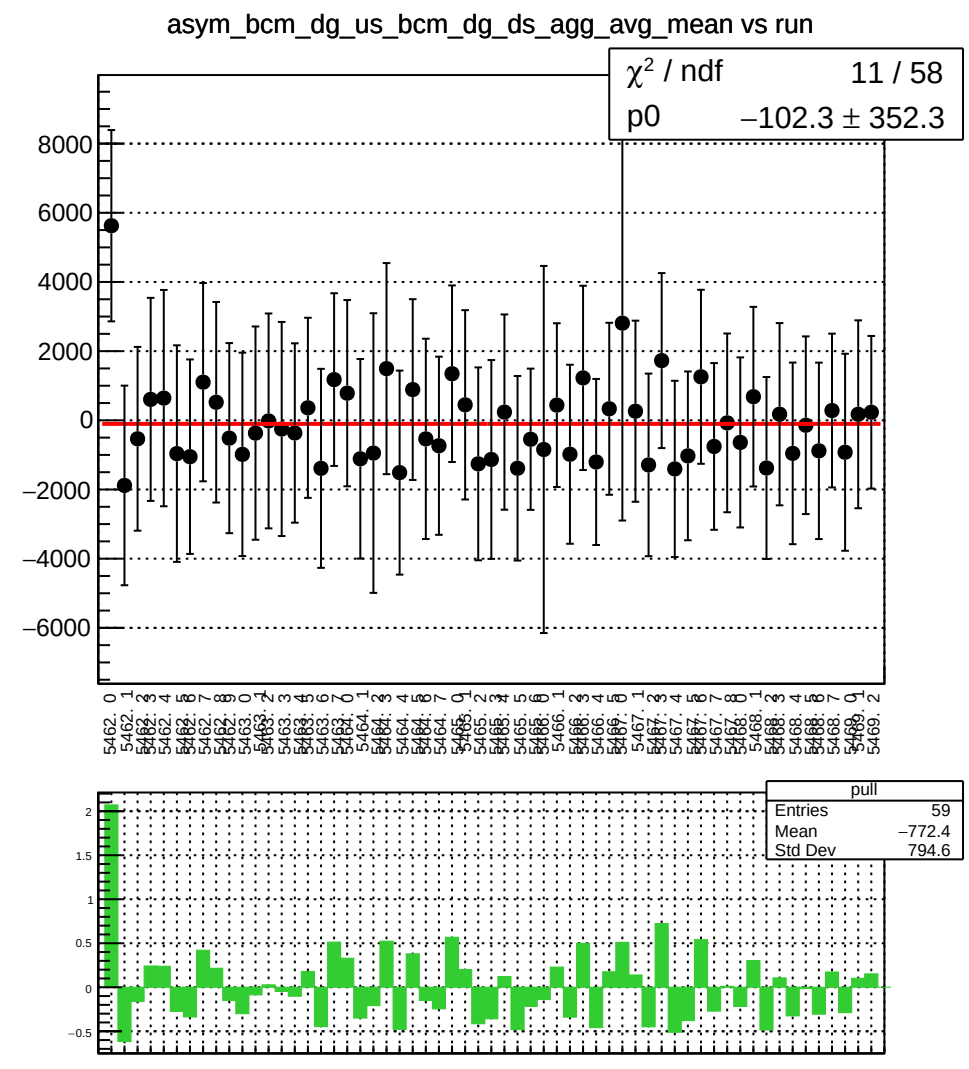

pull1D
Entries 59
Mean 0.001681
Std Dev 0.4127

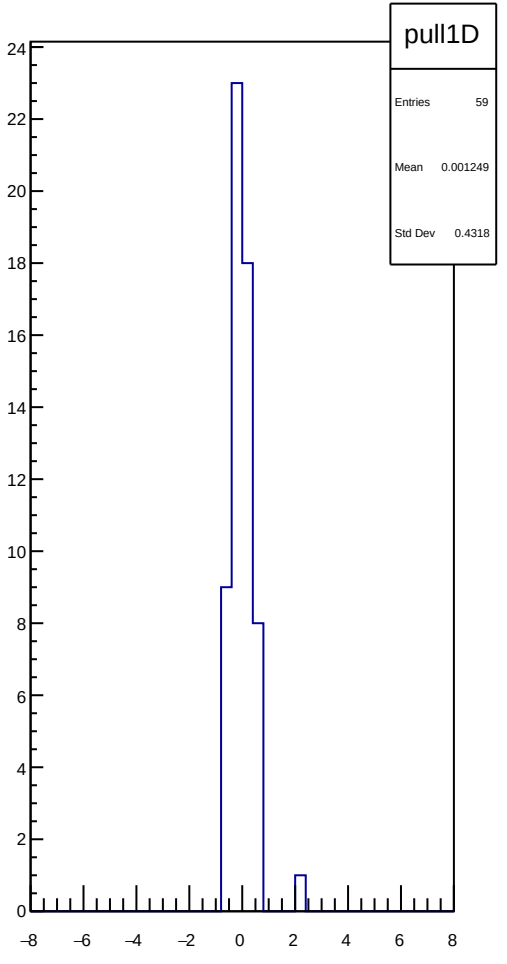

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.779e+04 / 58
p0 261.3 ± 0.2475
550
500
450
400
350
300
250
200

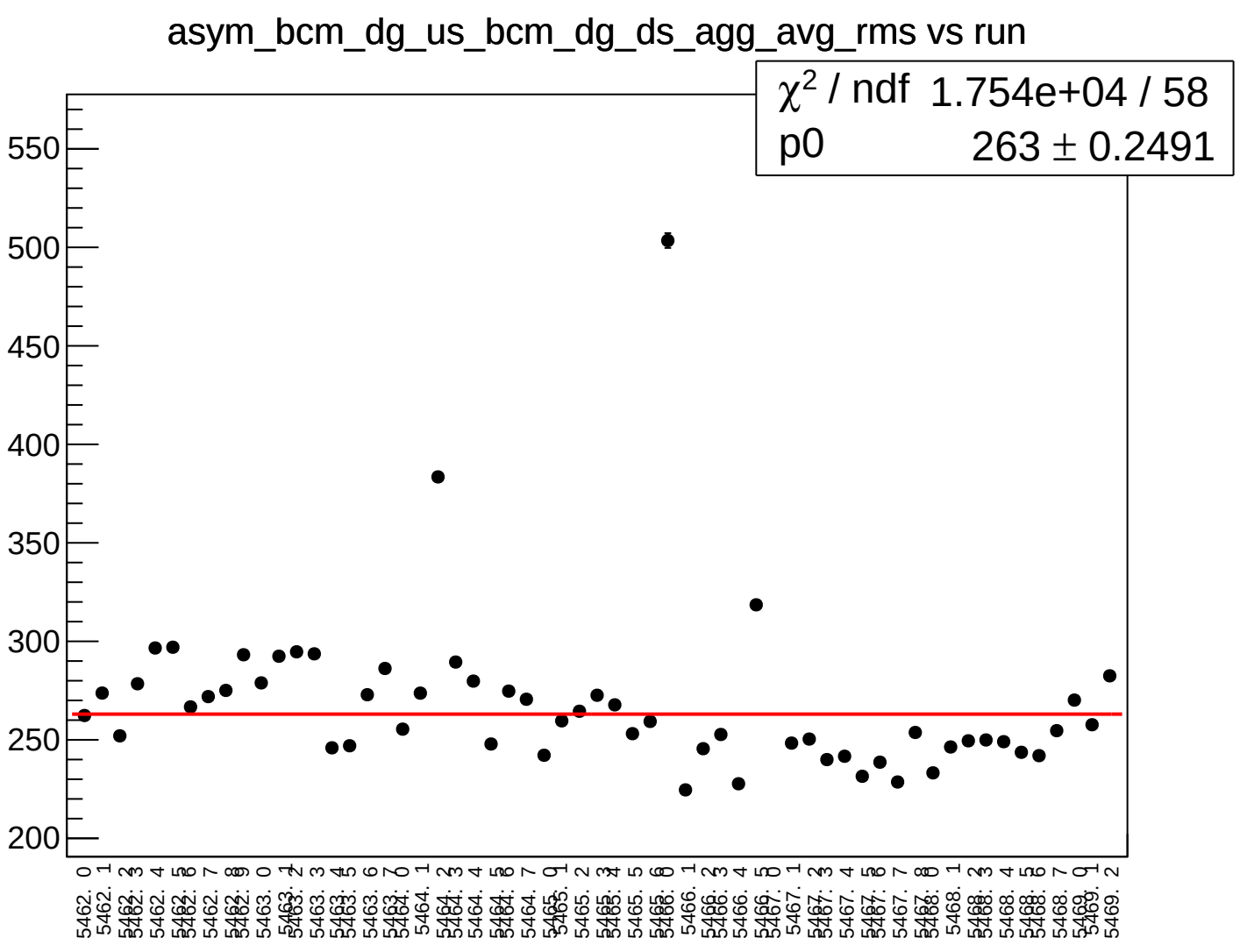

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 56.42 / 58
p0 30.16 ± 23
pull
Entries 59
Mean −245.1
Std Dev 272.2

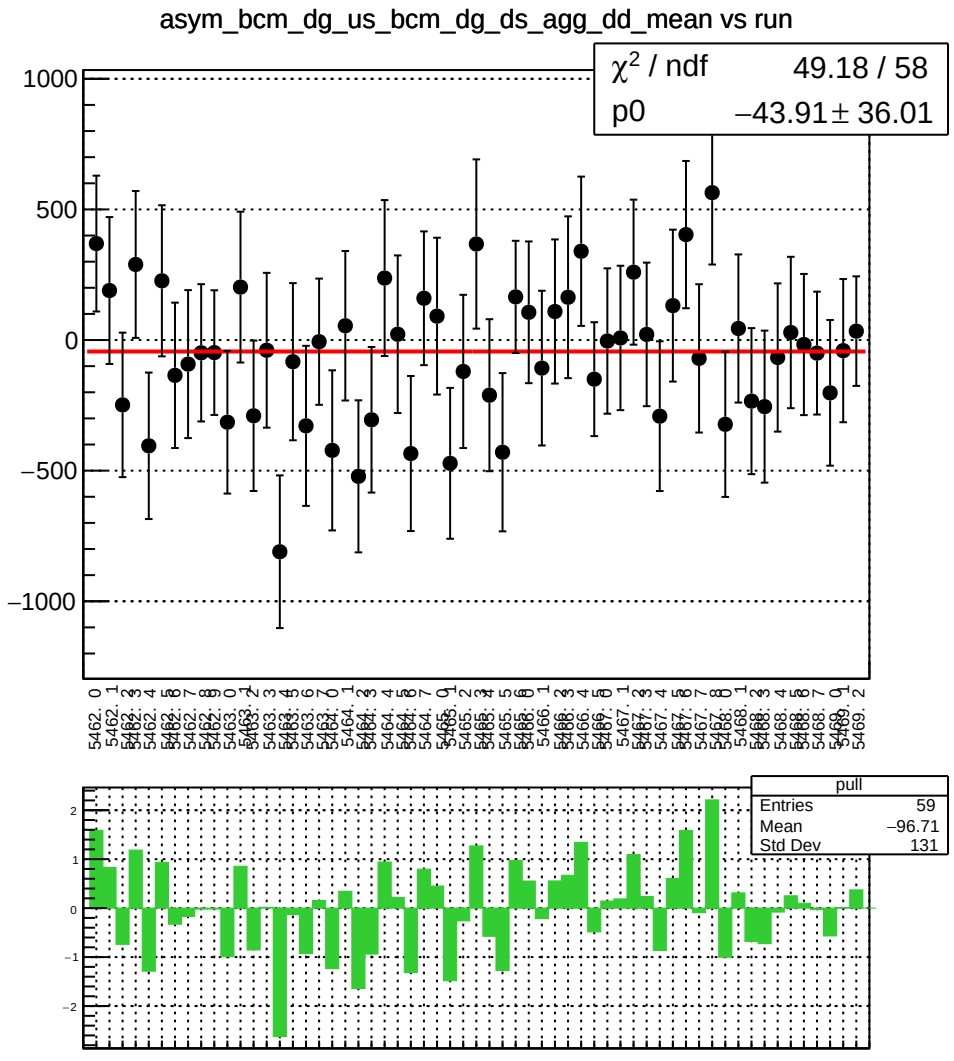

pull1D
Entries 59
Mean 0.01196
Std Dev 0.9778

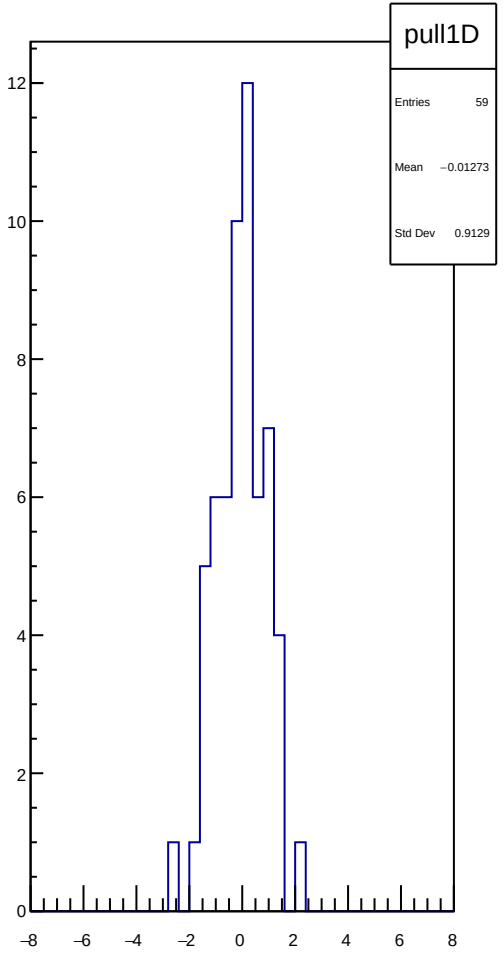

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 665.8 / 58
p0 17.3 ± 0.01626
18.2
18
17.8
17.6
17.4
17.2
17
16.8
16.6
16.4
16.2

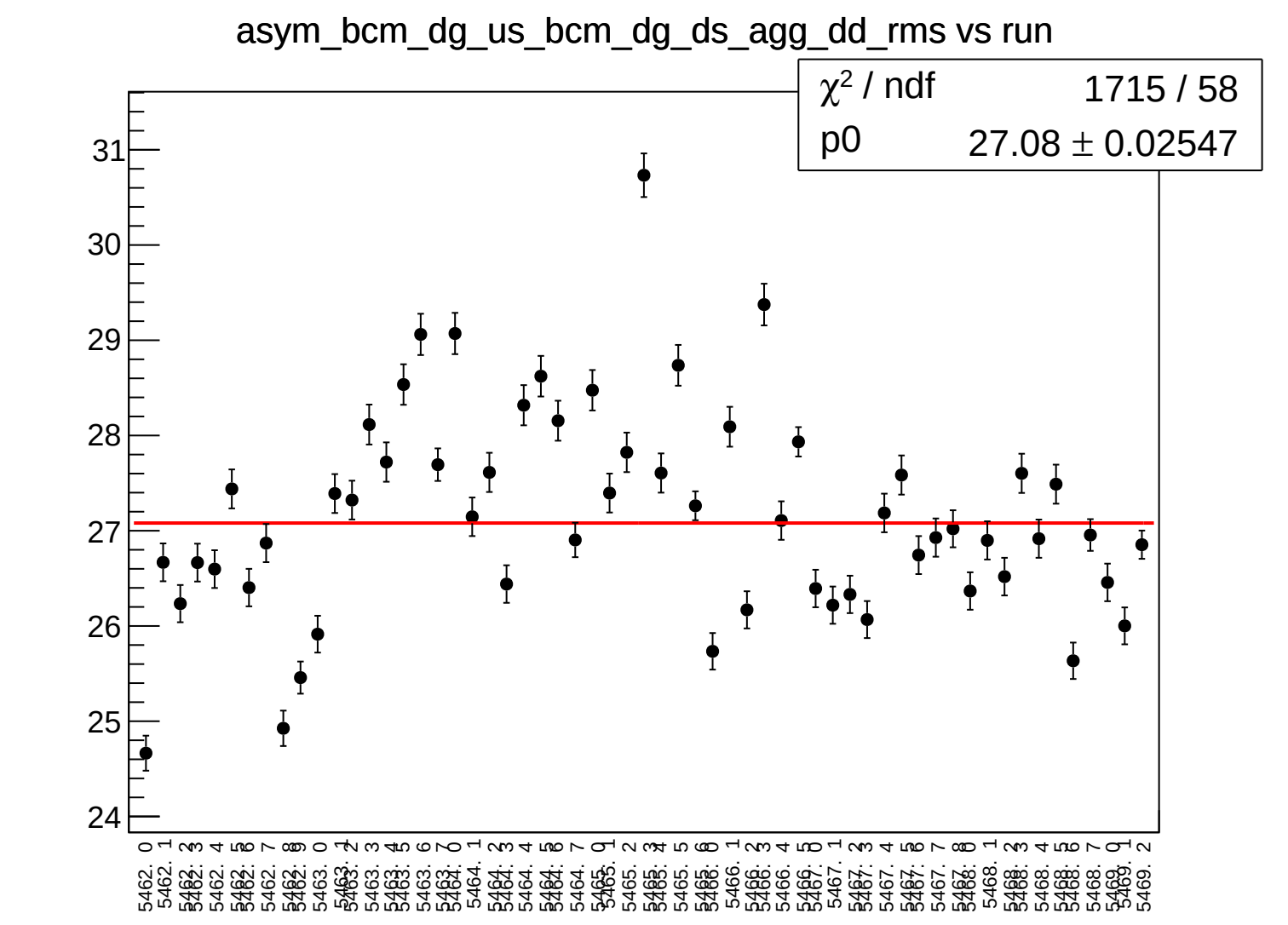

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 11 / 58
p0 −102.3 ± 352.3
8000
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 59
Mean −772.4
Std Dev 794.6
2
1.5
1
0.5
0
−0.5

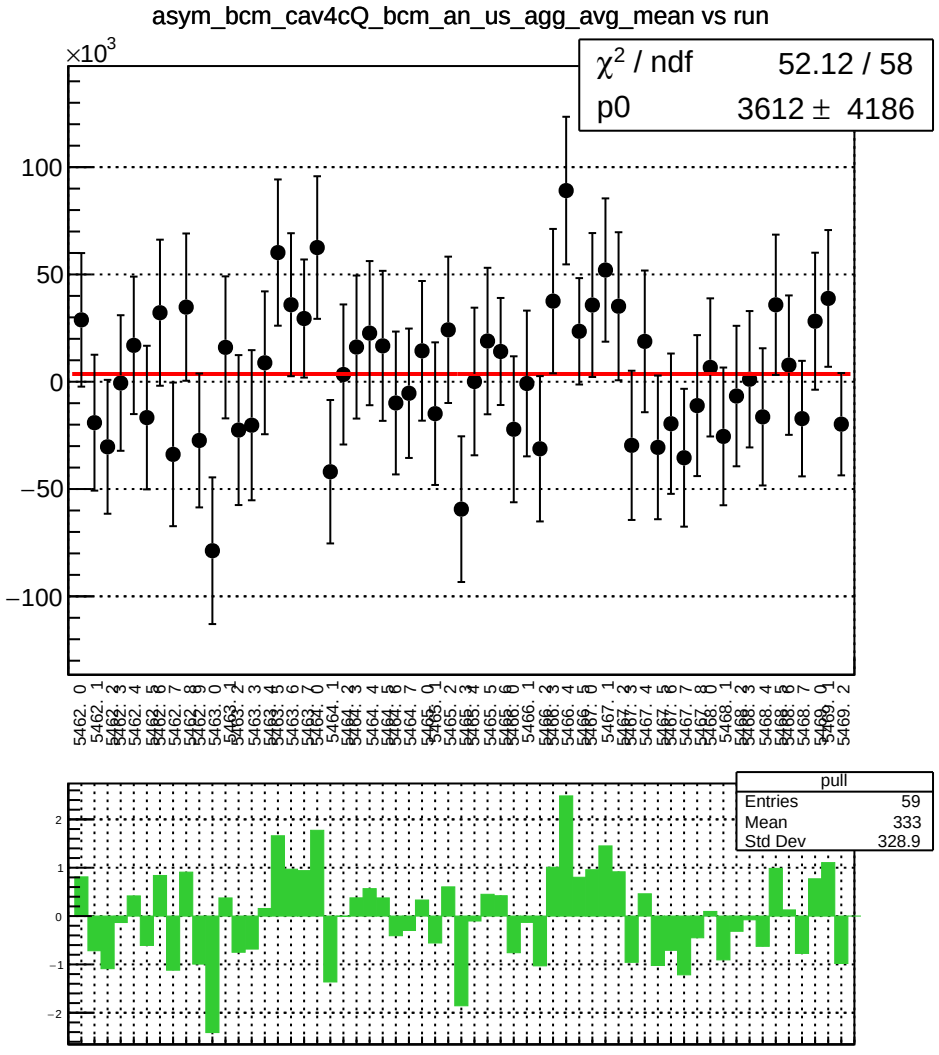

pull1D
Entries 59
Mean 0.001249
Std Dev 0.4318
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

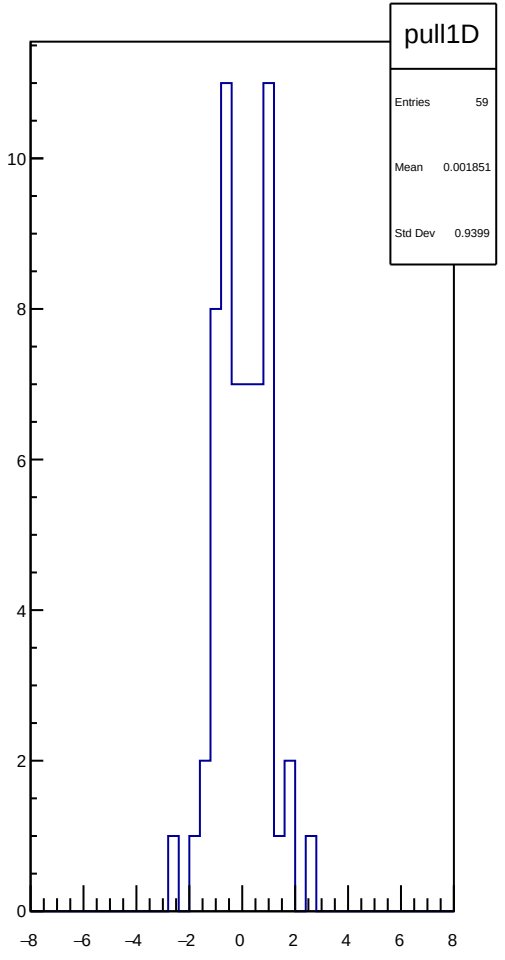

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.754e+04 / 58
p0 263 ± 0.2491
550
500
450
400
350
300
250
200

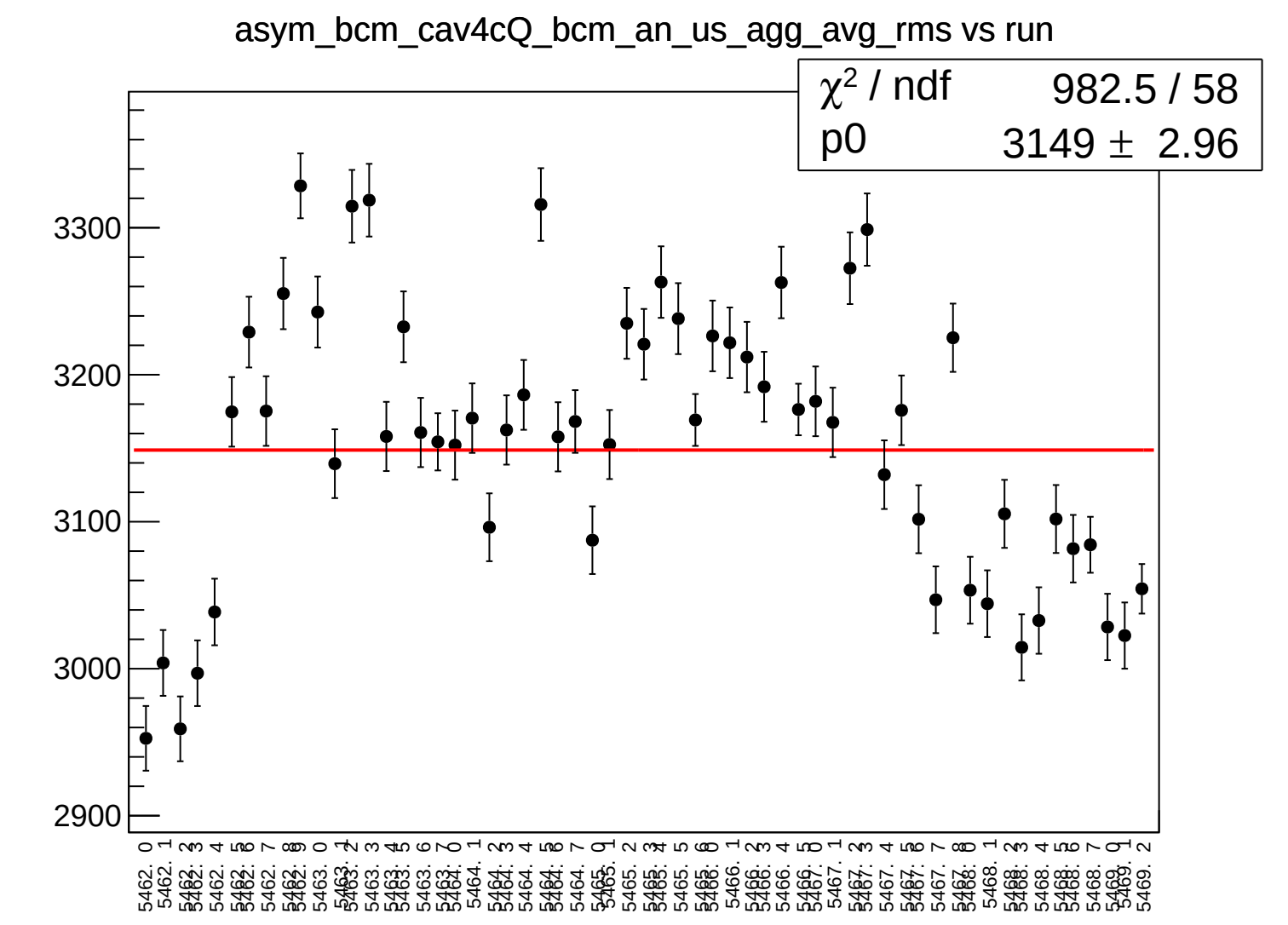

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 49.18 / 58
p0 −43.91 ± 36.01
1000
500
0
−500
−1000
pull
Entries 59
Mean −96.71
Std Dev 131
2
1
0
−1
−2

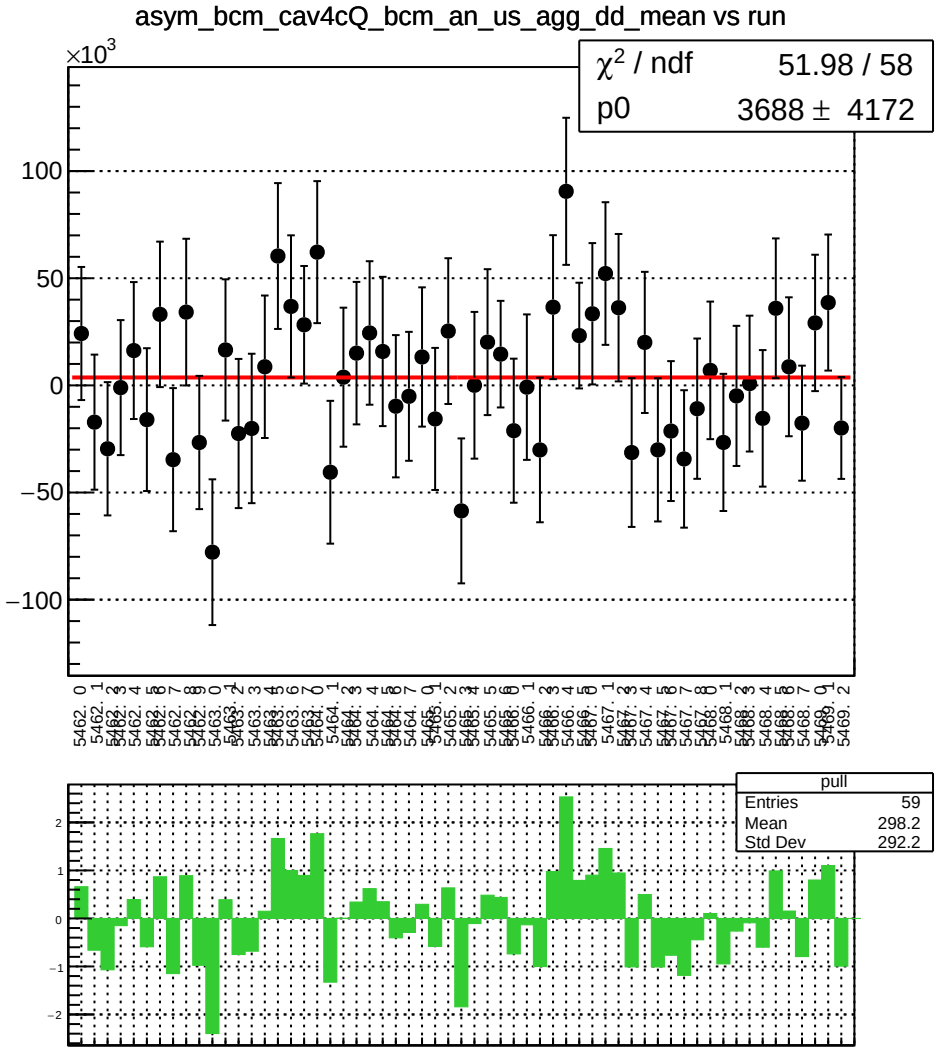

pull1D
Entries 59
Mean −0.01273
Std Dev 0.9129
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

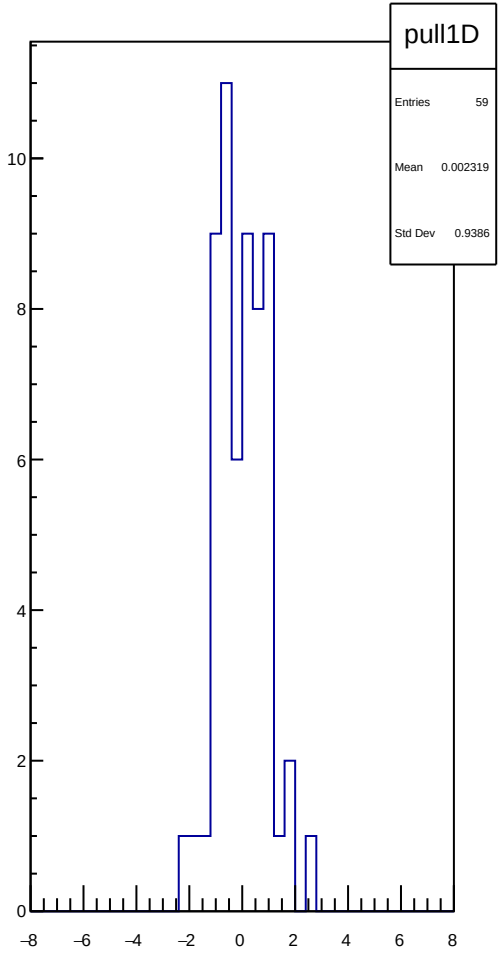

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1715 / 58
p0 27.08 ± 0.02547
31
30
29
28
27
26
25
24
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

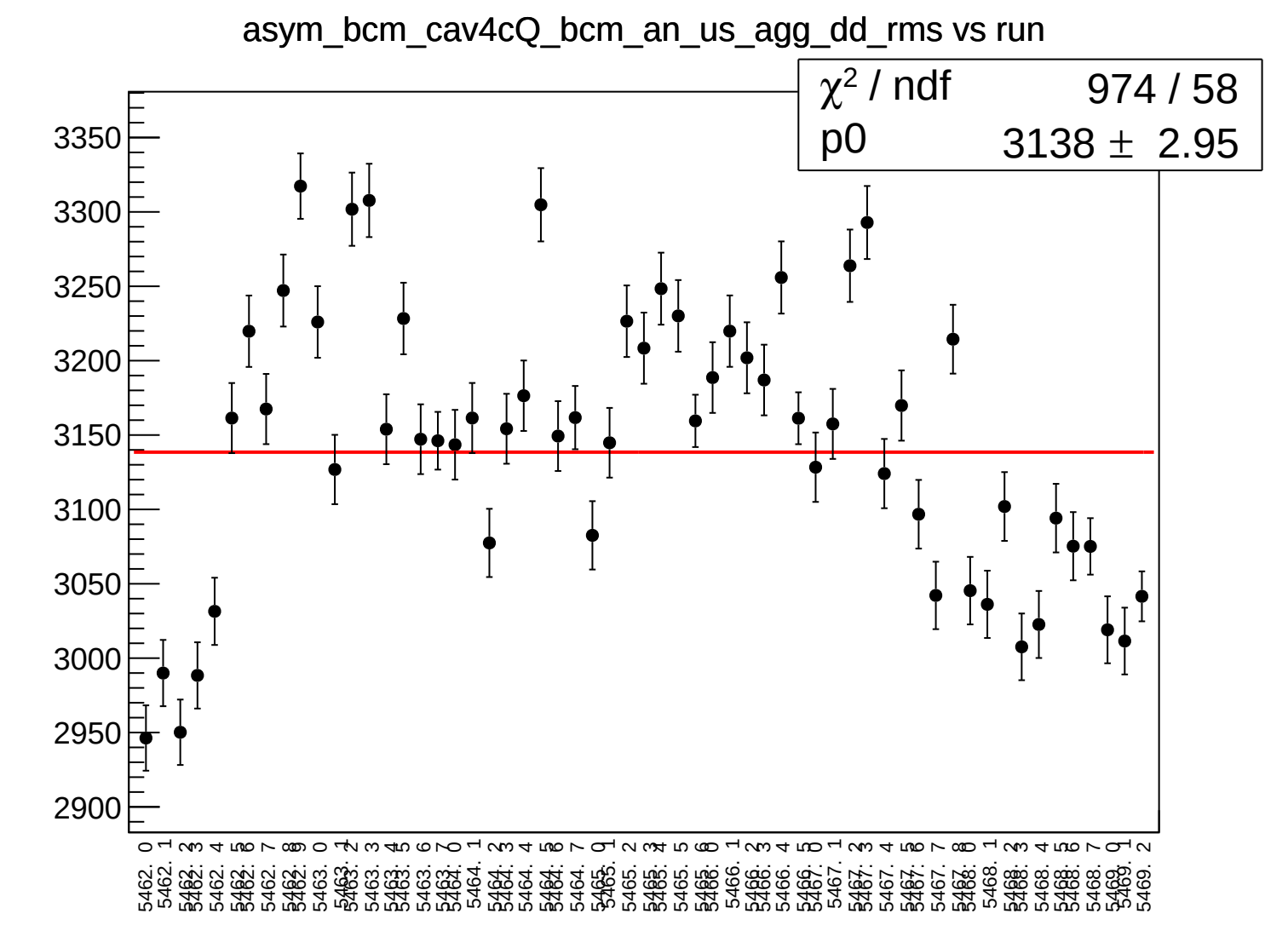

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
×10^3
χ² / ndf 52.12 / 58
p0 3612 ± 4186
100
50
0
−50
−100
pull
Entries 59
Mean 333
Std Dev 328.9
2
1
0
−1
−2

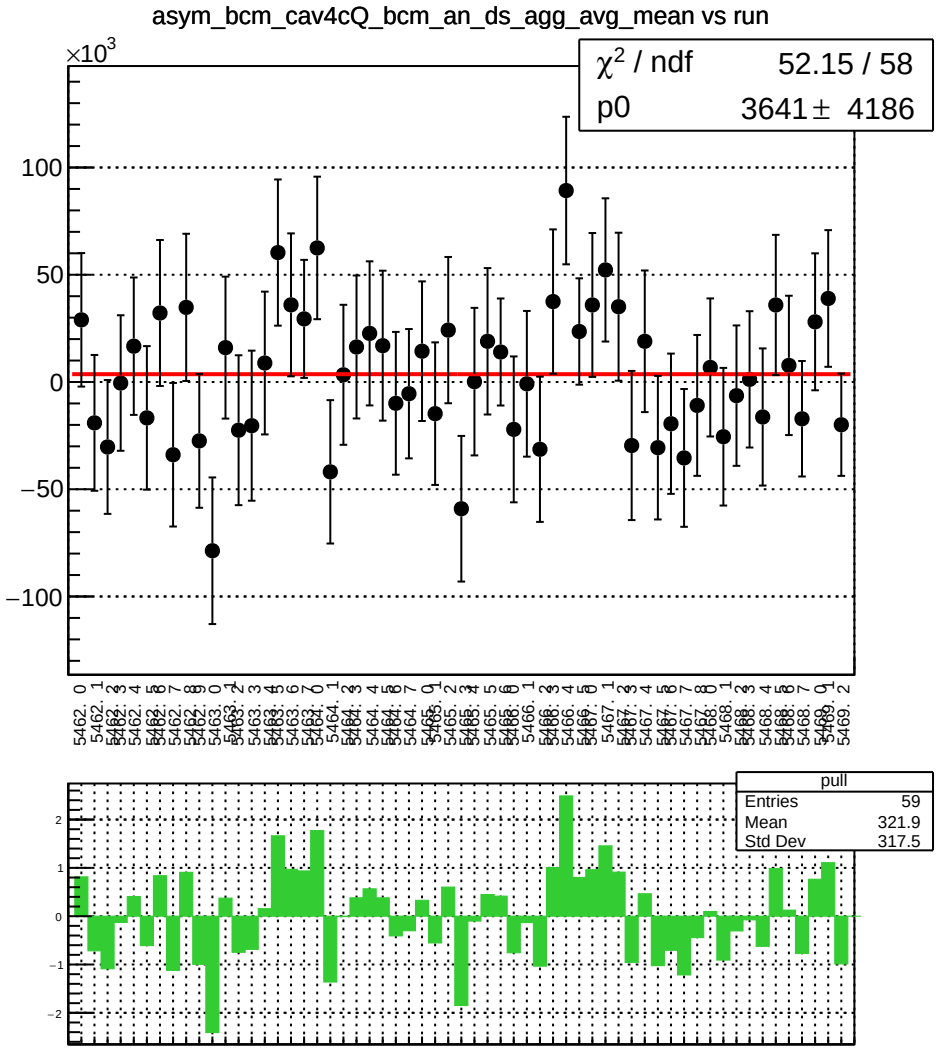

pull1D
Entries 59
Mean 0.001851
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

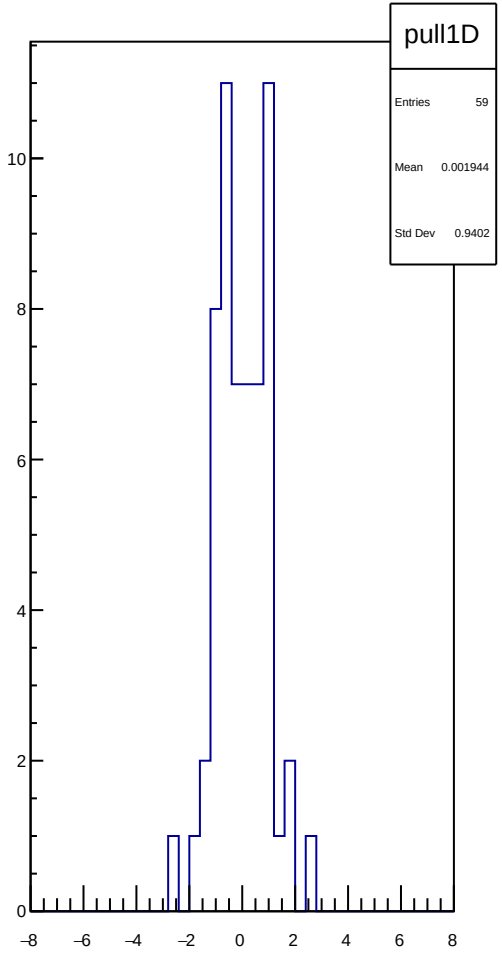

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 982.5 / 58
p0 3149 ± 2.96
3300
3200
3100
3000
2900

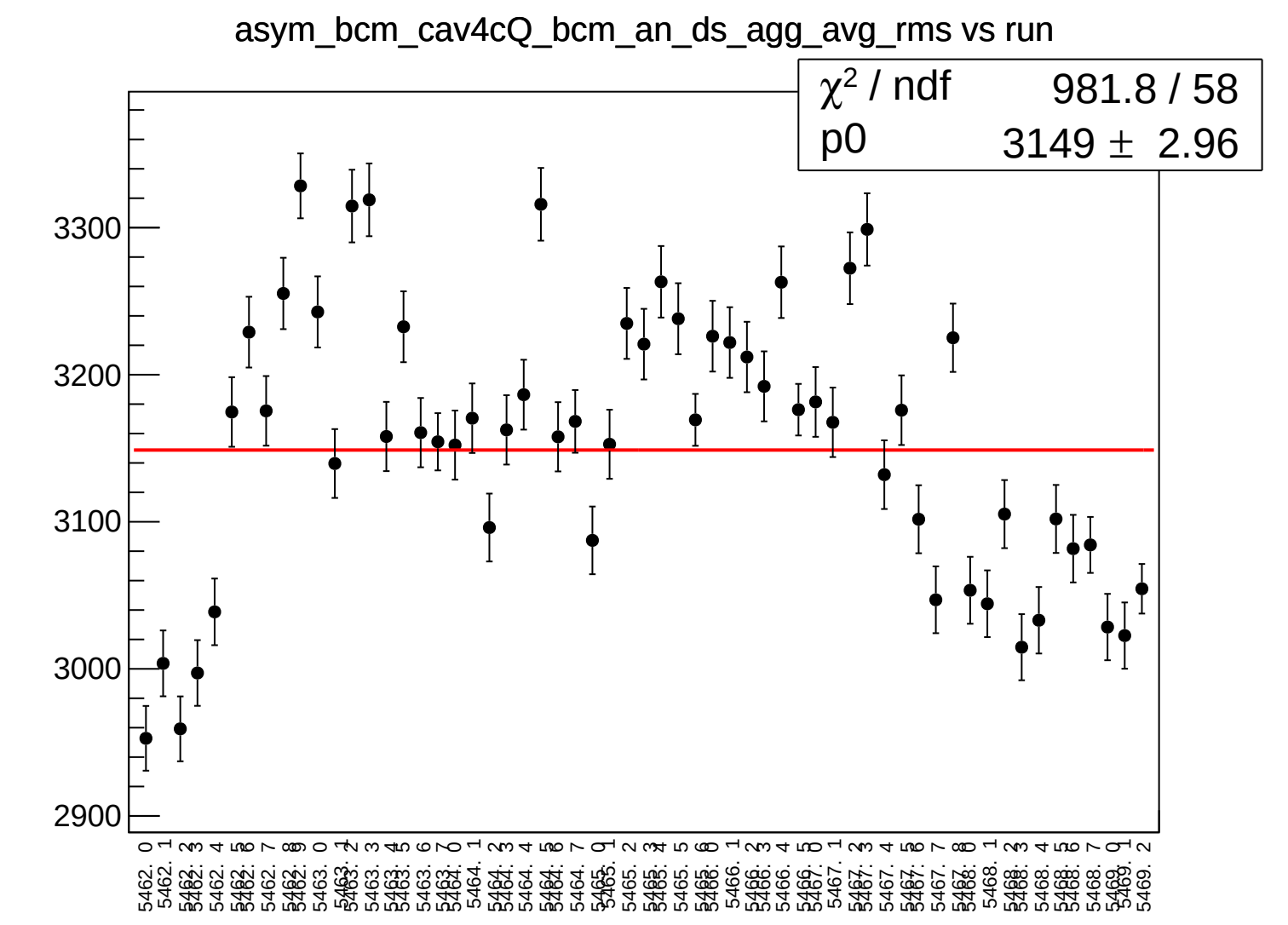

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
×10^3
χ² / ndf 51.98 / 58
p0 3688 ± 4172
100
50
0
−50
−100
pull
Entries 59
Mean 298.2
Std Dev 292.2
2
1
0
−1
−2

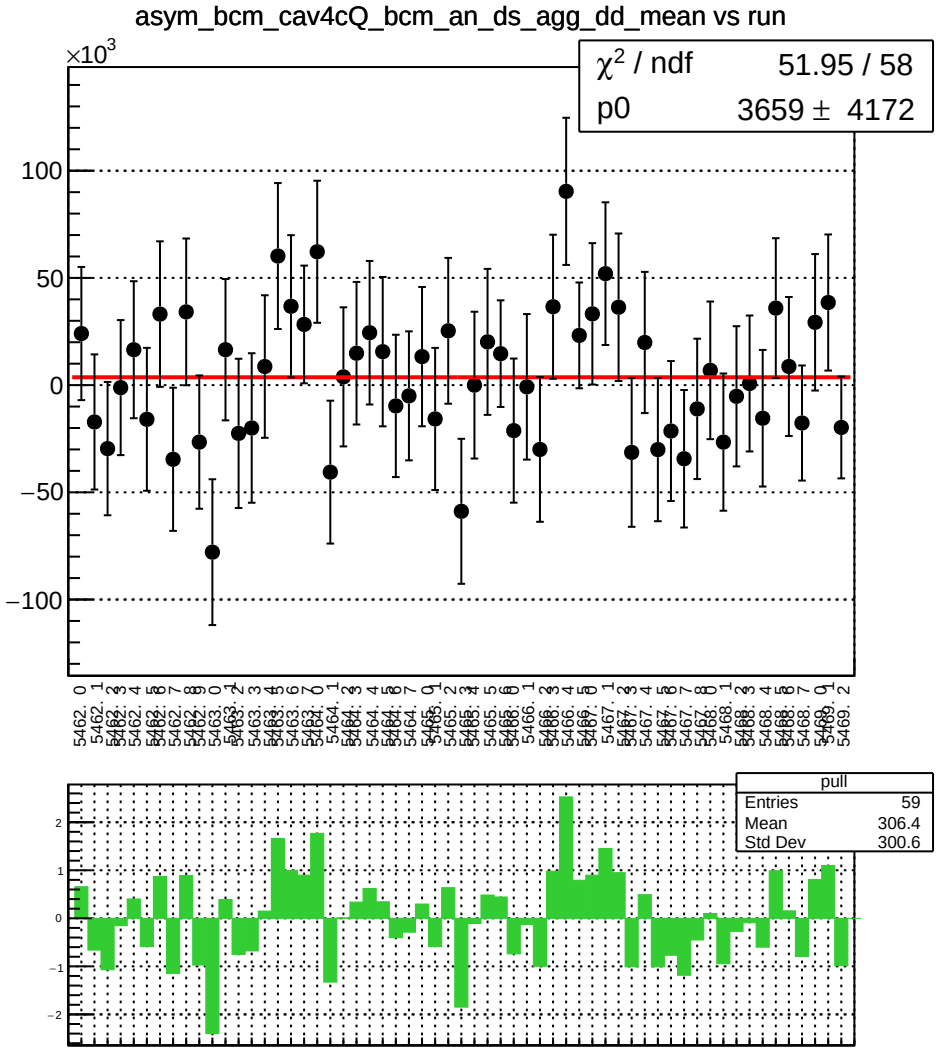

pull1D
Entries 59
Mean 0.002319
Std Dev 0.9386
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

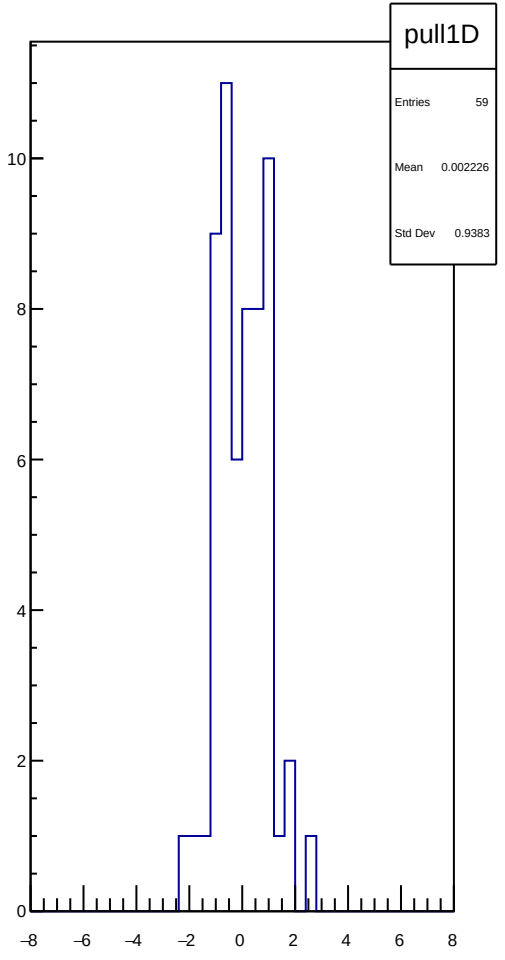

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 974 / 58
p0 3138 ± 2.95
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

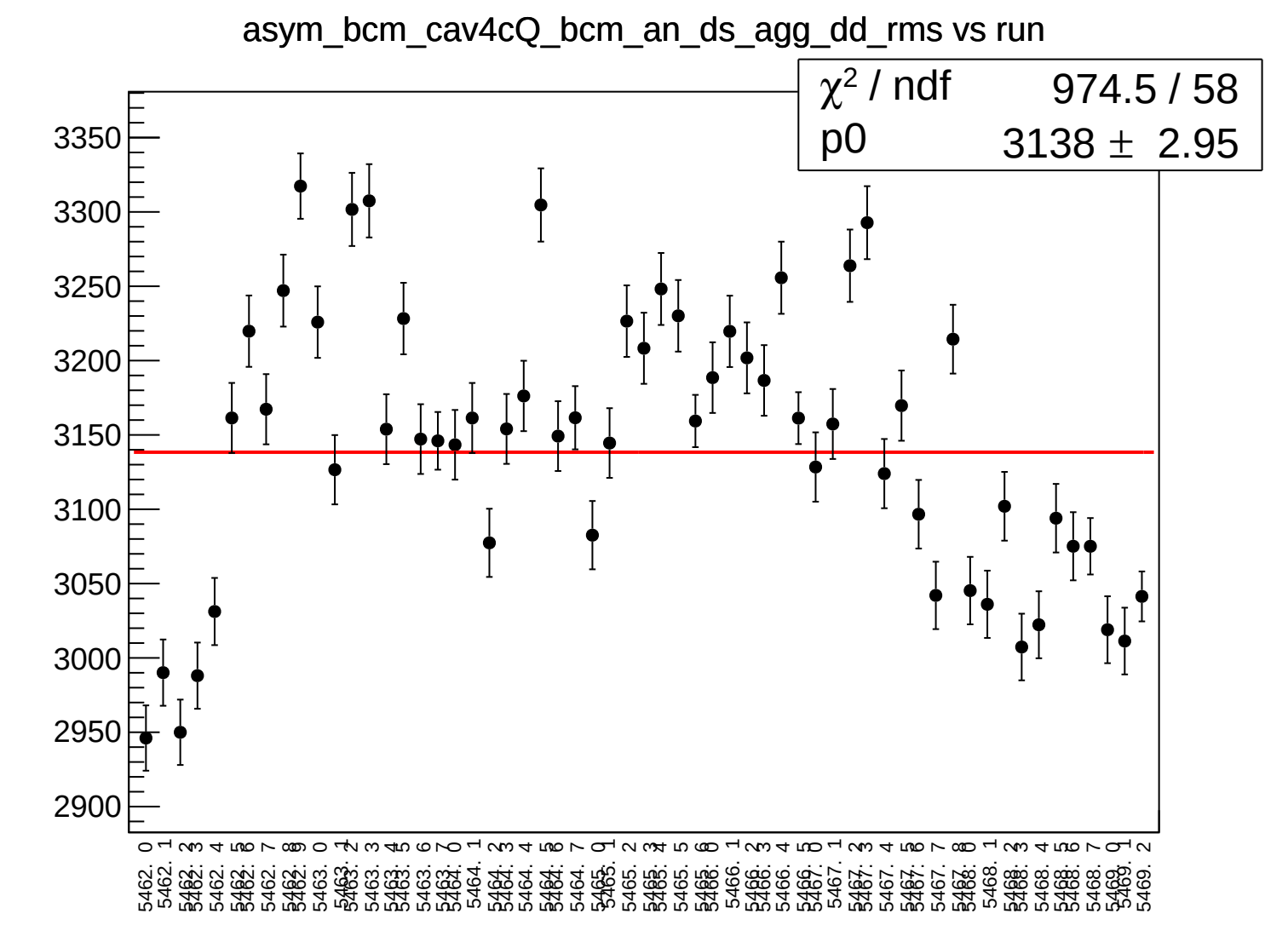

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
×10^3
χ² / ndf 52.15 / 58
p0 3641 ± 4186
100
50
0
−50
−100
pull
Entries 59
Mean 321.9
Std Dev 317.5
2
1
0
−1
−2


pull1D
Entries 59
Mean 0.001944
Std Dev 0.9402
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 981.8 / 58
p0 3149 ± 2.96
3300
3200
3100
3000
2900


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
×10^3
χ² / ndf 51.95 / 58
p0 3659 ± 4172
100
50
0
−50
−100
pull
Entries 59
Mean 306.4
Std Dev 300.6
2
1
0
−1
−2


pull1D
Entries 59
Mean 0.002226
Std Dev 0.9383
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 974.5 / 58
p0 3138 ± 2.95
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
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5466. 5
5467. 0
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5467. 3
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5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
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5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
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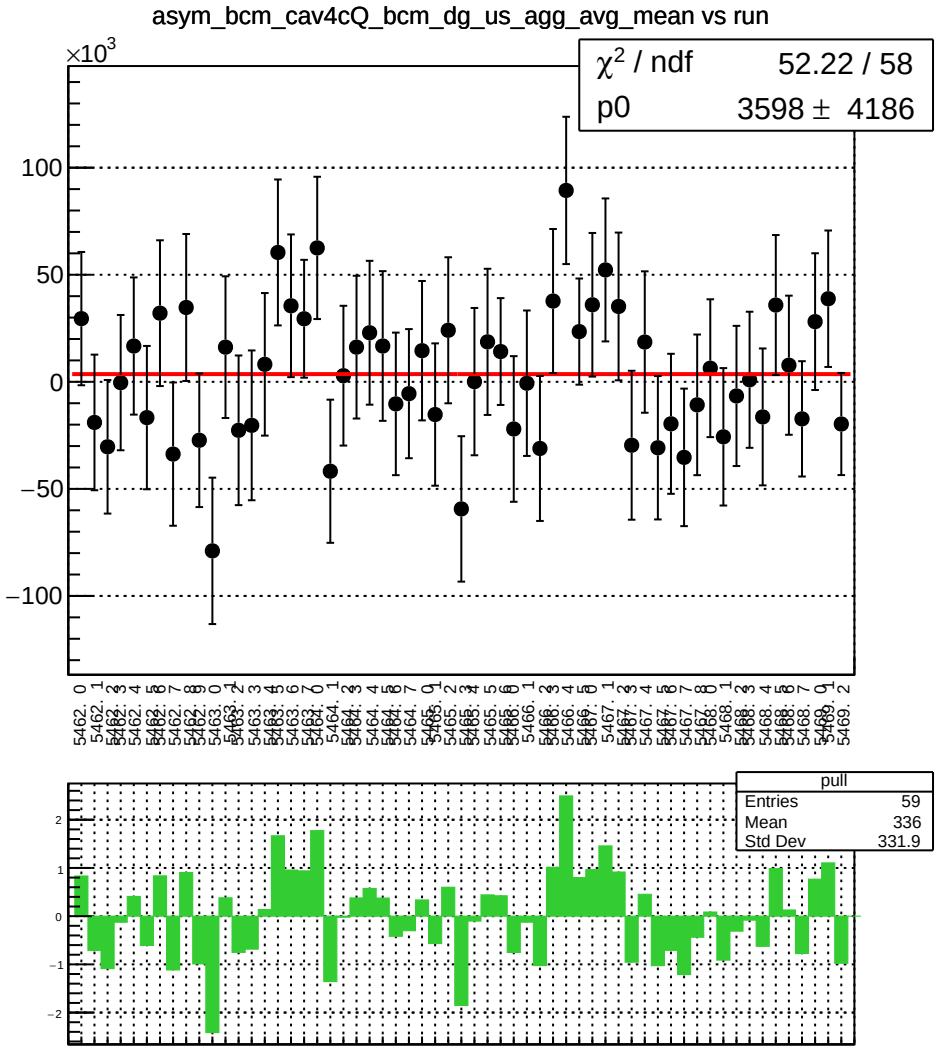
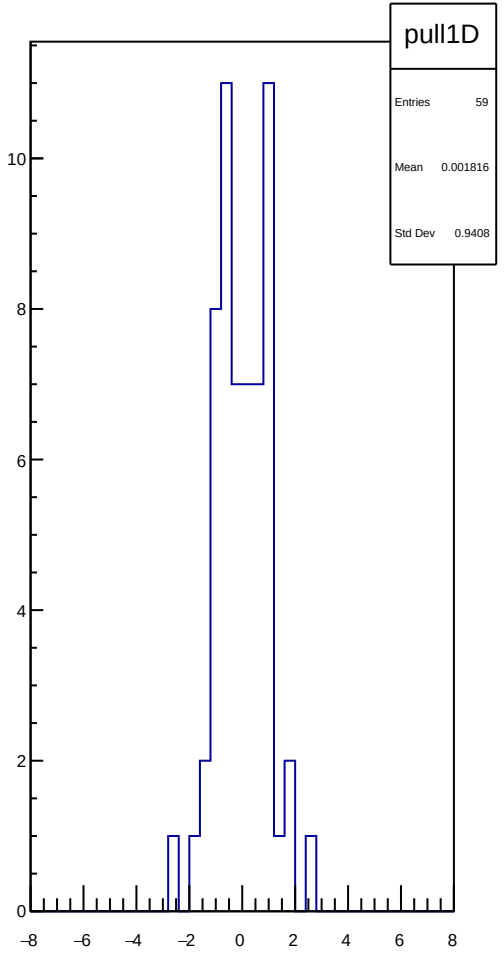
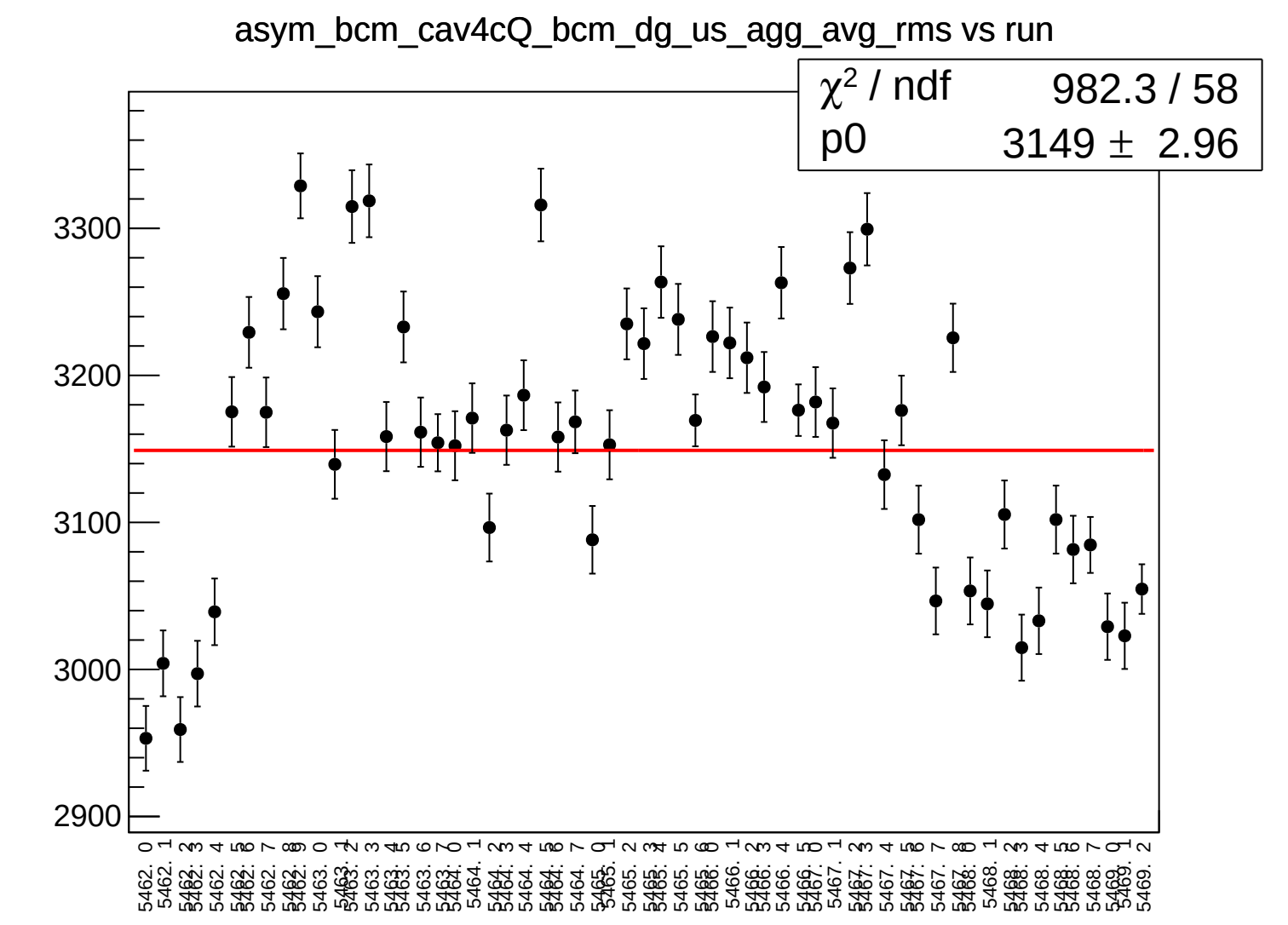
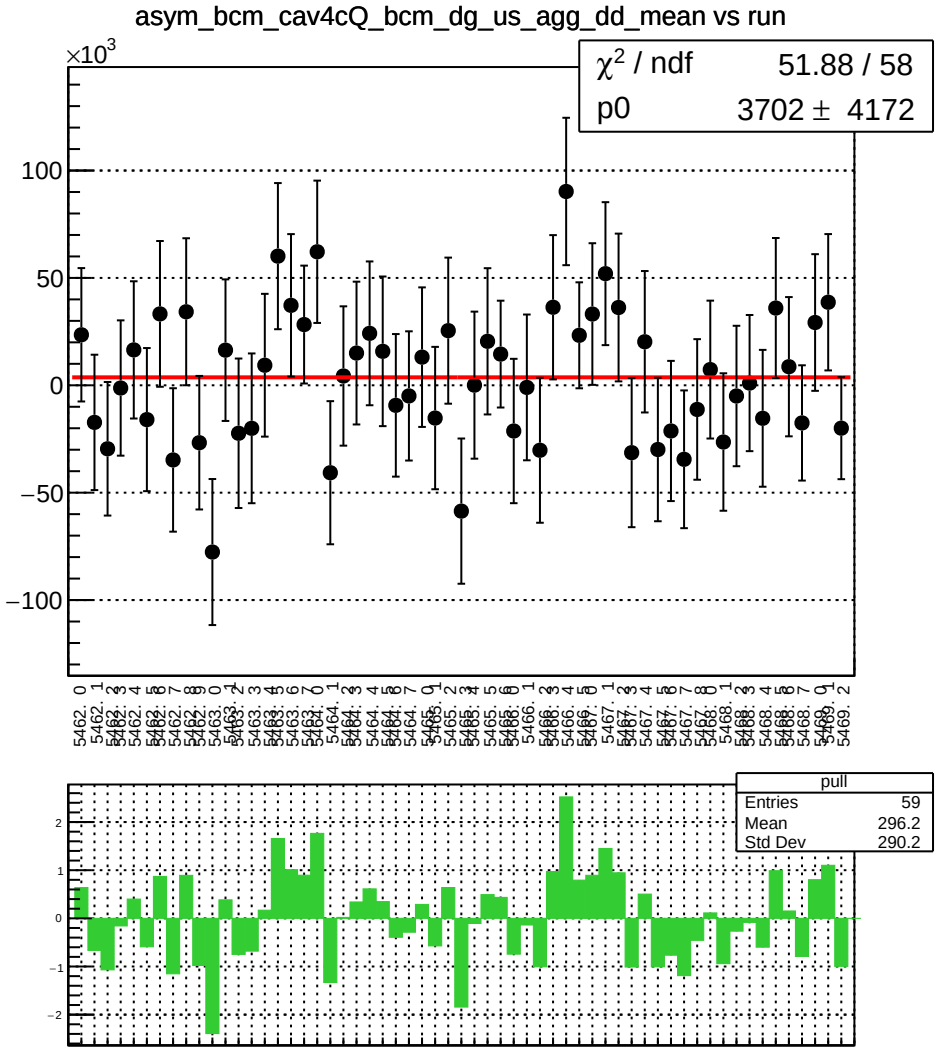
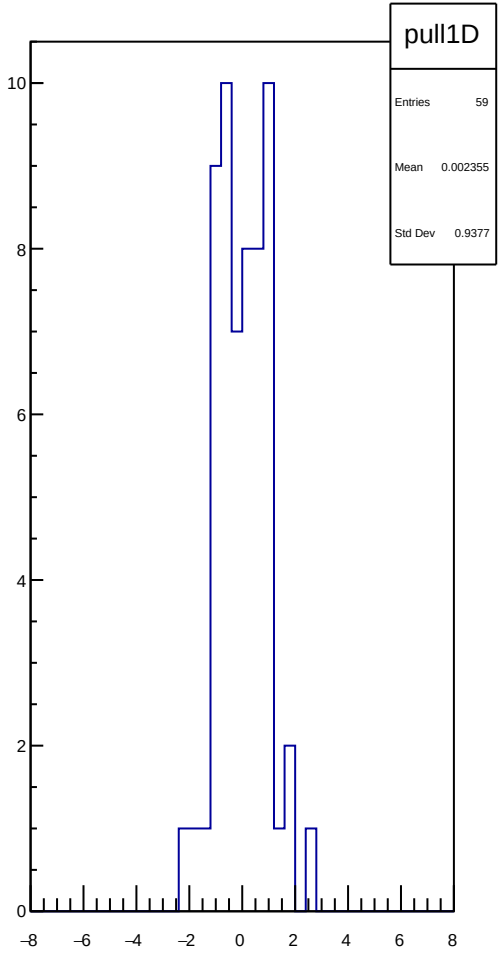
5469. 1
5469. 2

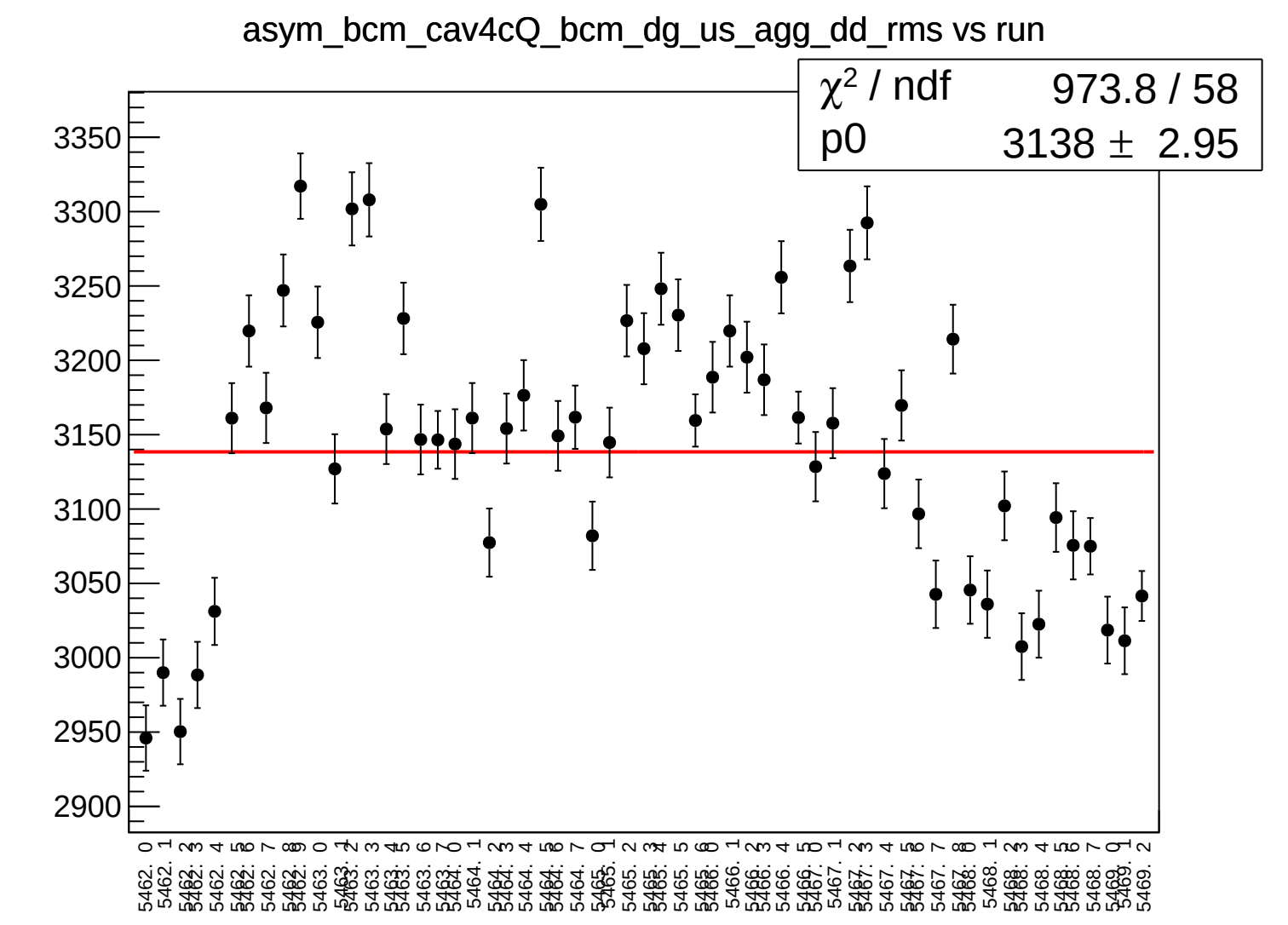

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
×10^3
χ² / ndf 52.22 / 58
p0 3598 ± 4186
100
50
0
−50
−100
pull
Entries 59
Mean 336
Std Dev 331.9
2
1
0
−1
−2


pull1D
Entries 59
Mean 0.001816
Std Dev 0.9408
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 982.3 / 58
p0 3149 ± 2.96
3300
3200
3100
3000
2900


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
×10^3
χ² / ndf 51.88 / 58
p0 3702 ± 4172
100
50
0
−50
−100
pull
Entries 59
Mean 296.2
Std Dev 290.2
2
1
0
−1
−2


pull1D
Entries 59
Mean 0.002355
Std Dev 0.9377
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8


asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 973.8 / 58
p0 3138 ± 2.95
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
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5465. 6
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5466. 4
5466. 5
5467. 0
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5467. 8
5468. 0
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5468. 3
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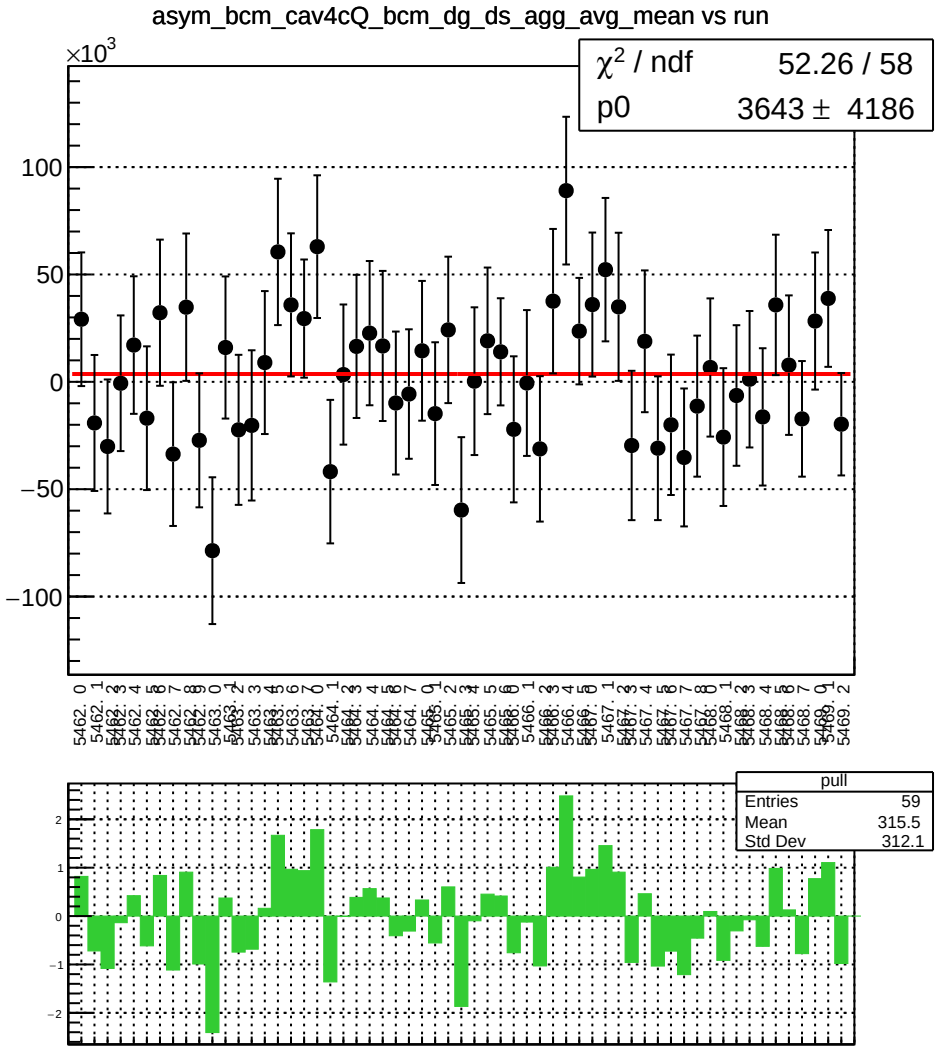
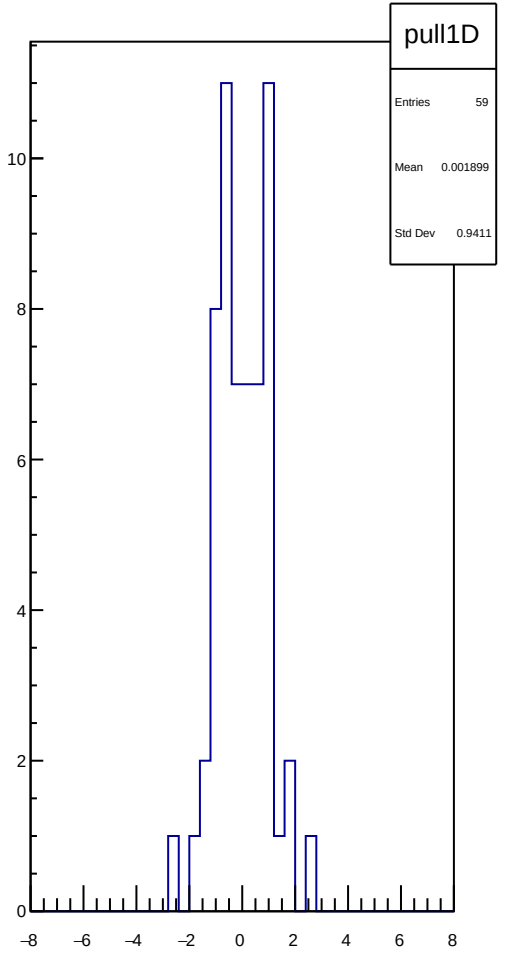
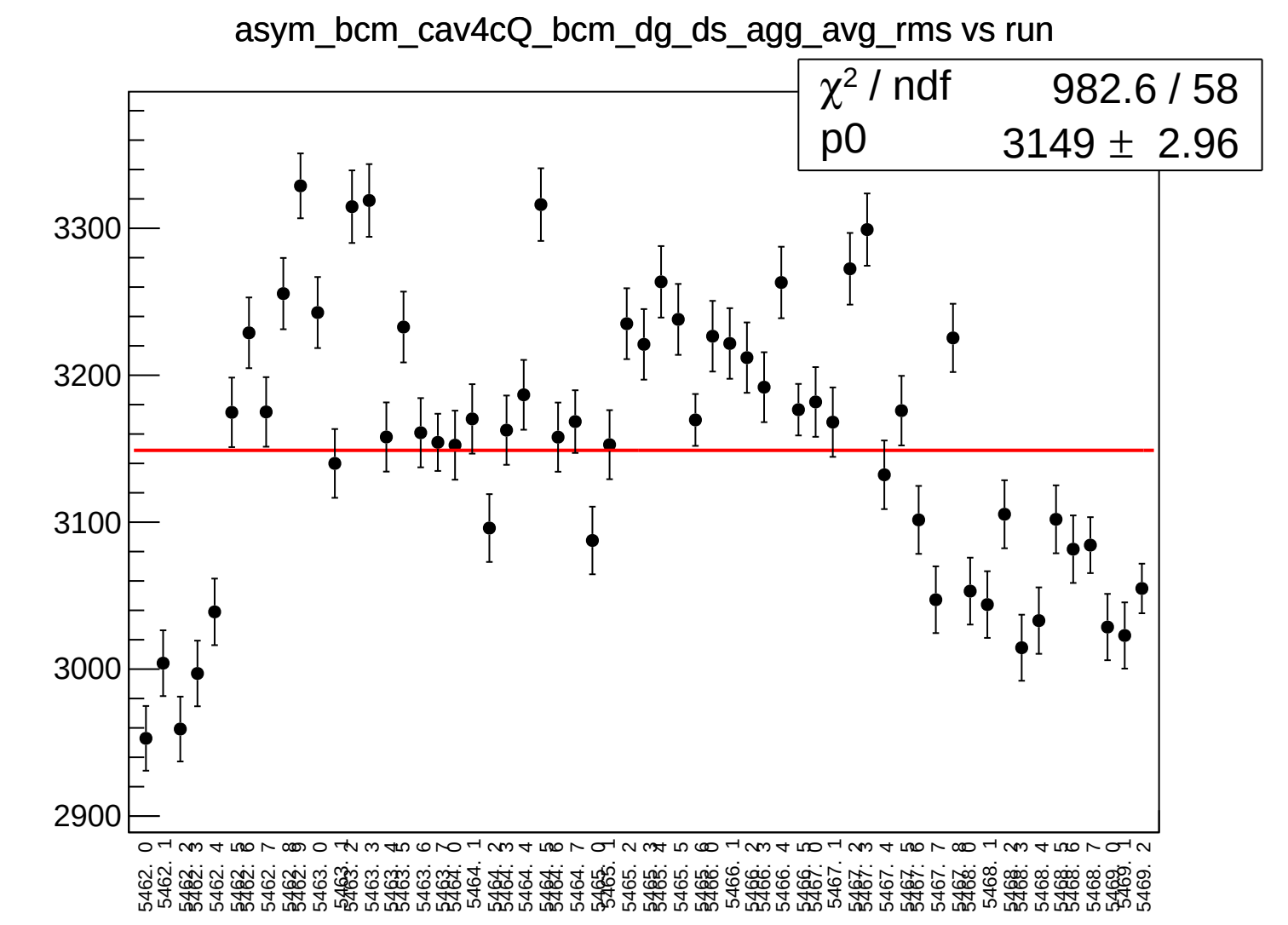
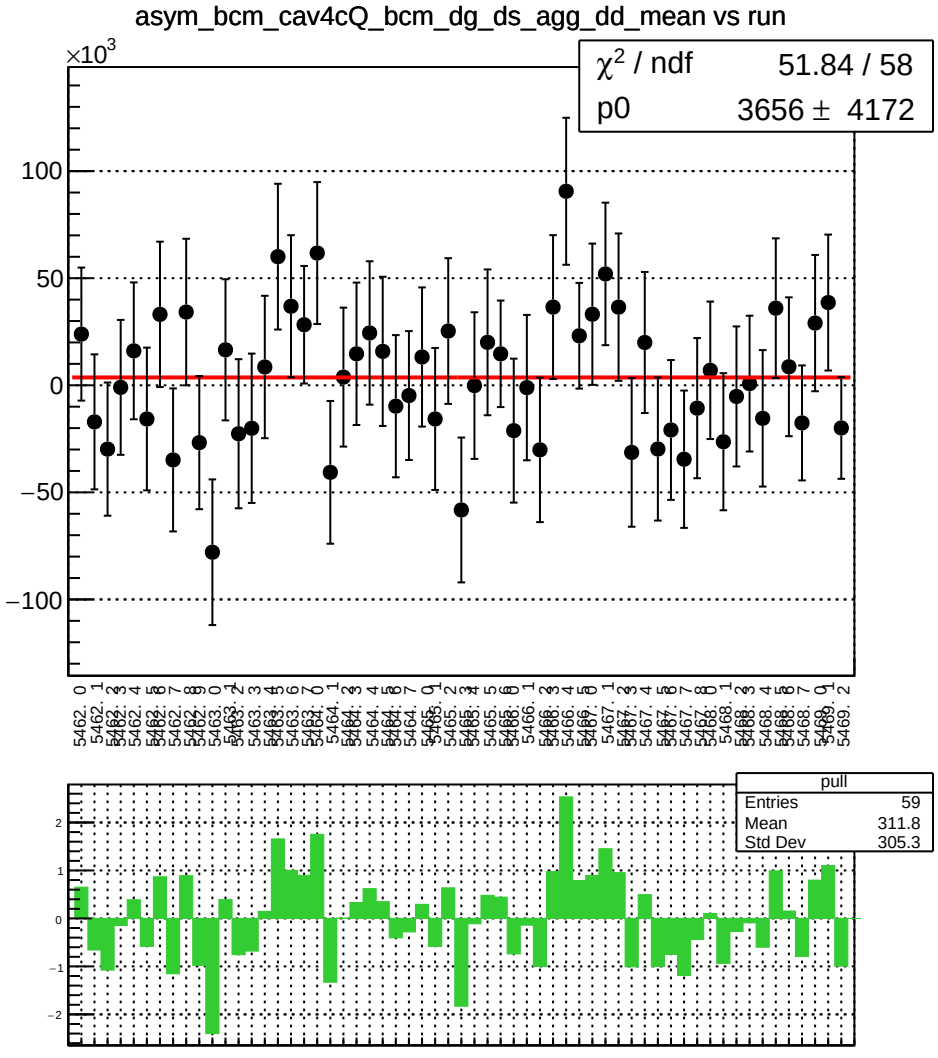
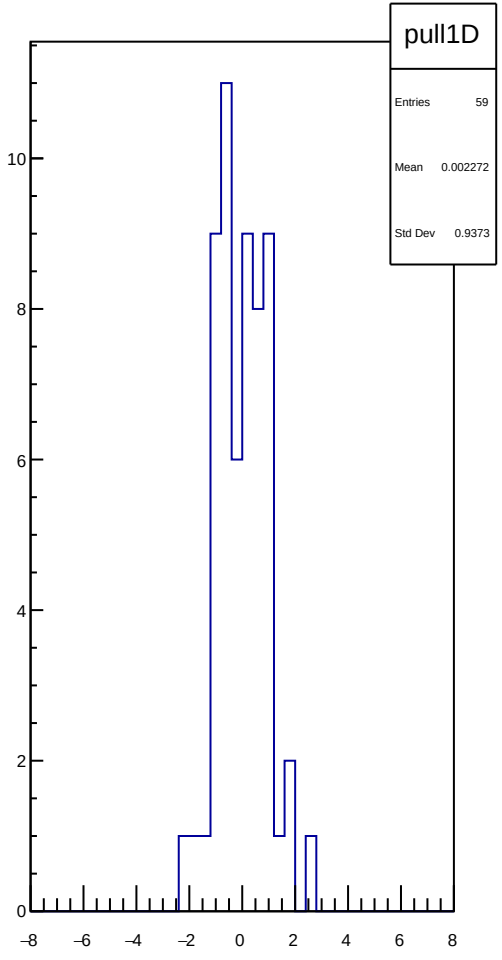
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

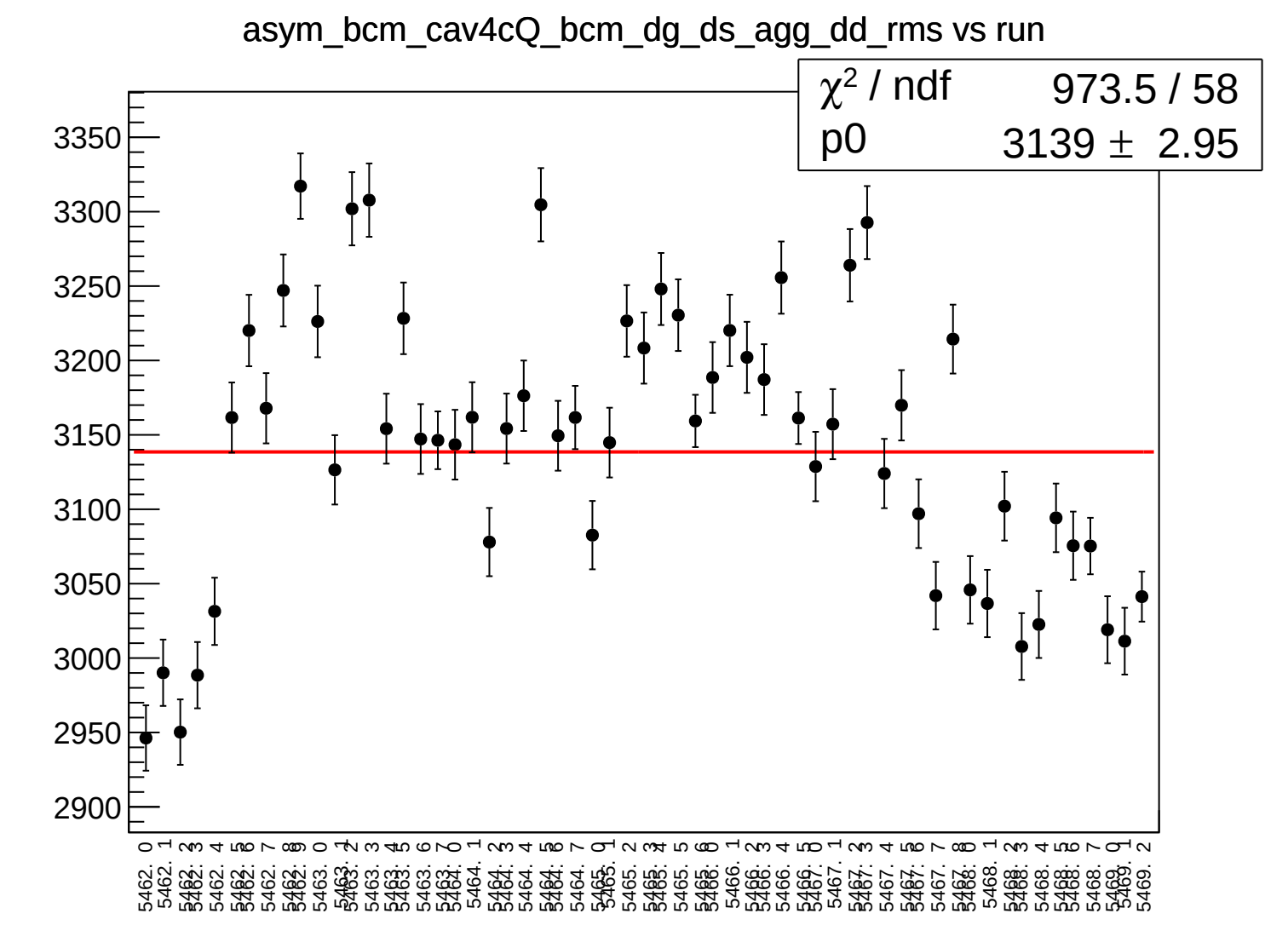

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
×10^3
χ² / ndf 52.26 / 58
p0 3643 ± 4186
100
50
0
−50
−100
pull
Entries 59
Mean 315.5
Std Dev 312.1
2
1
0
−1
−2

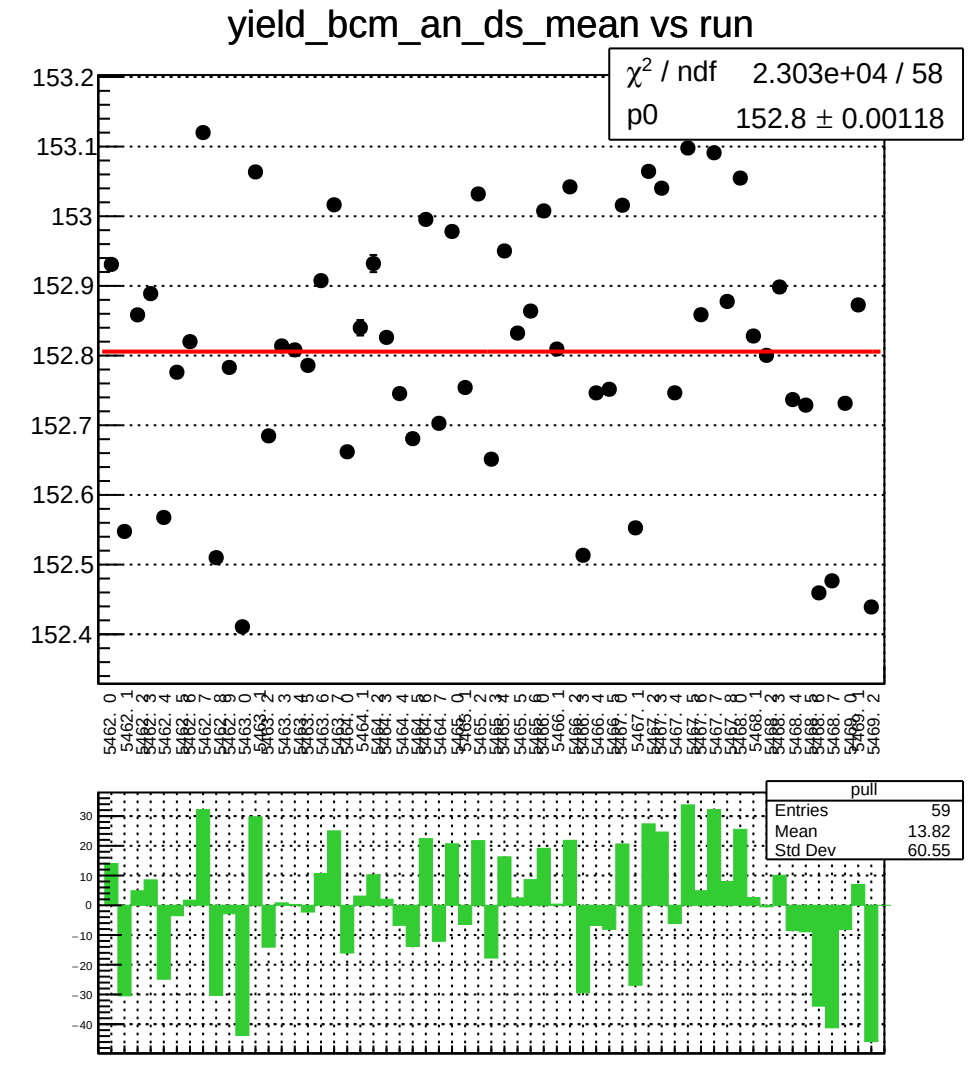

pull1D
Entries 59
Mean 0.001899
Std Dev 0.9411
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

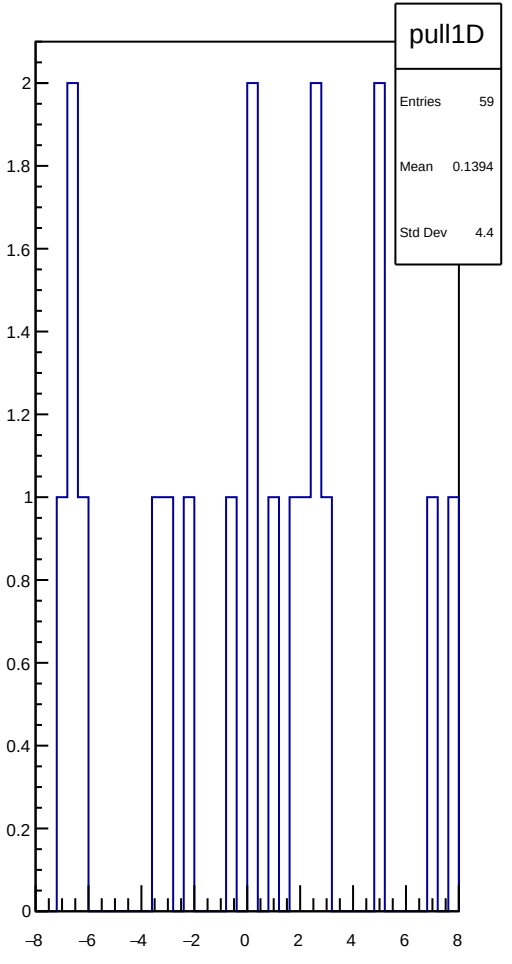

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 982.6 / 58
p0 3149 ± 2.96
3300
3200
3100
3000
2900

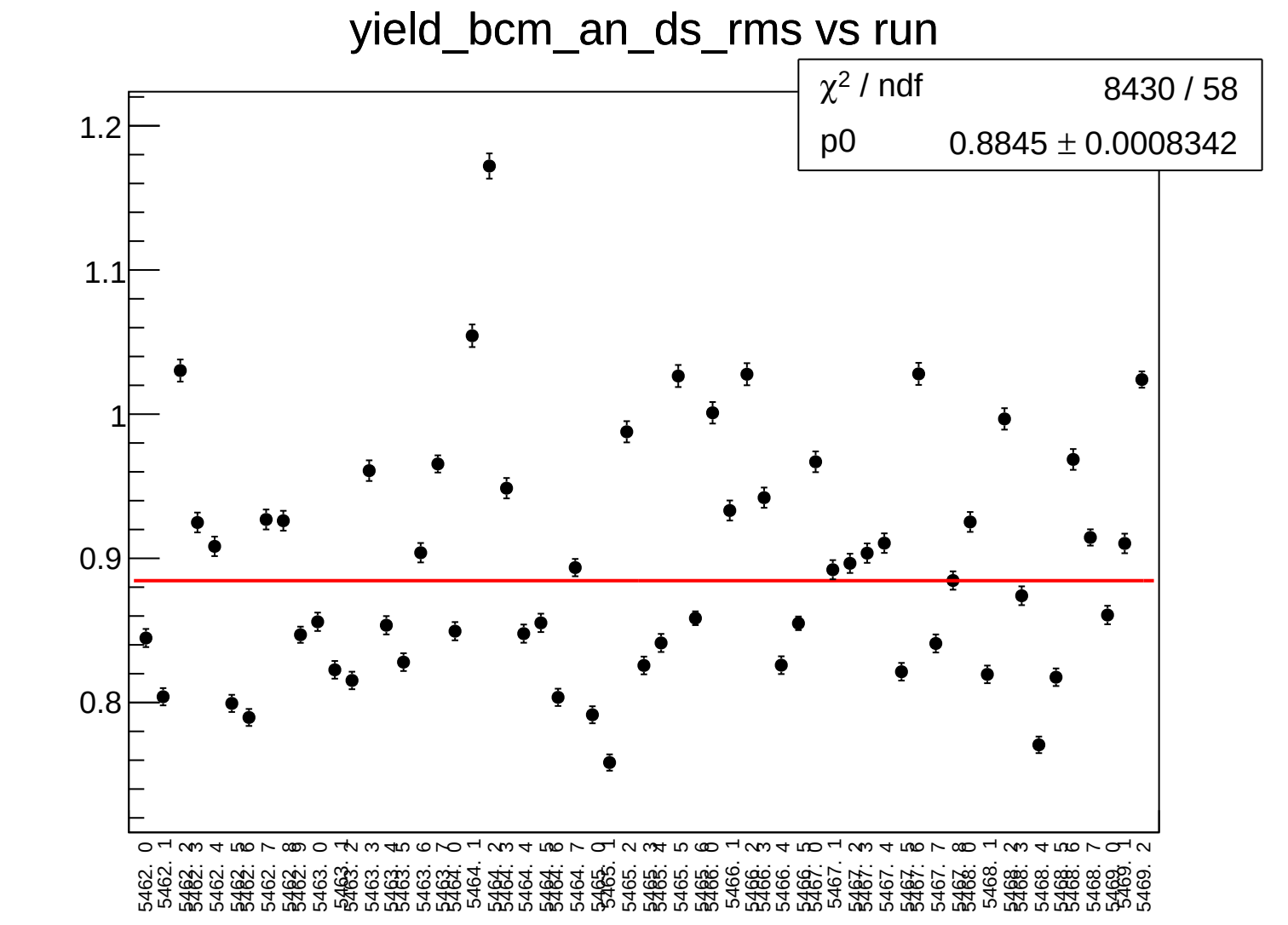

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
×10^3
χ² / ndf 51.84 / 58
p0 3656 ± 4172
100
50
0
−50
−100
pull
Entries 59
Mean 311.8
Std Dev 305.3
2
1
0
−1
−2

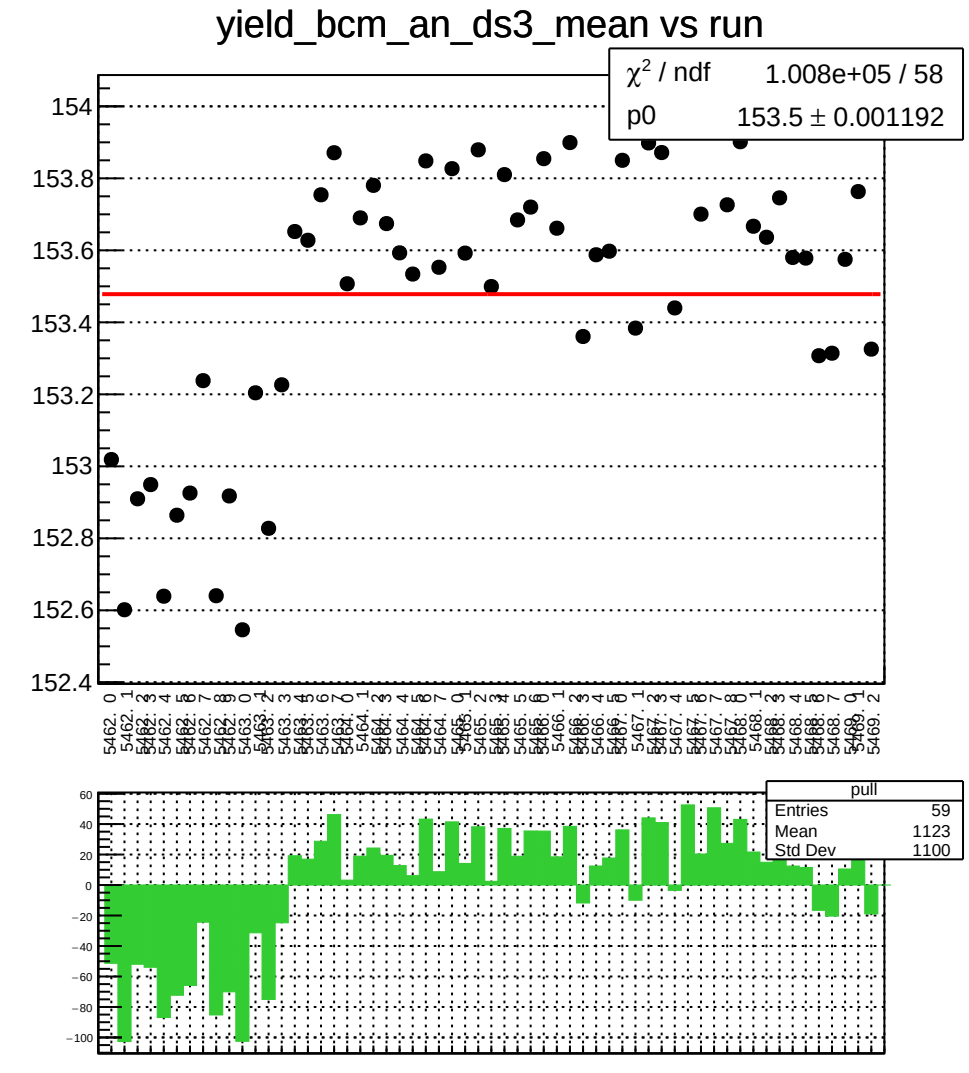

pull1D
Entries 59
Mean 0.002272
Std Dev 0.9373
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

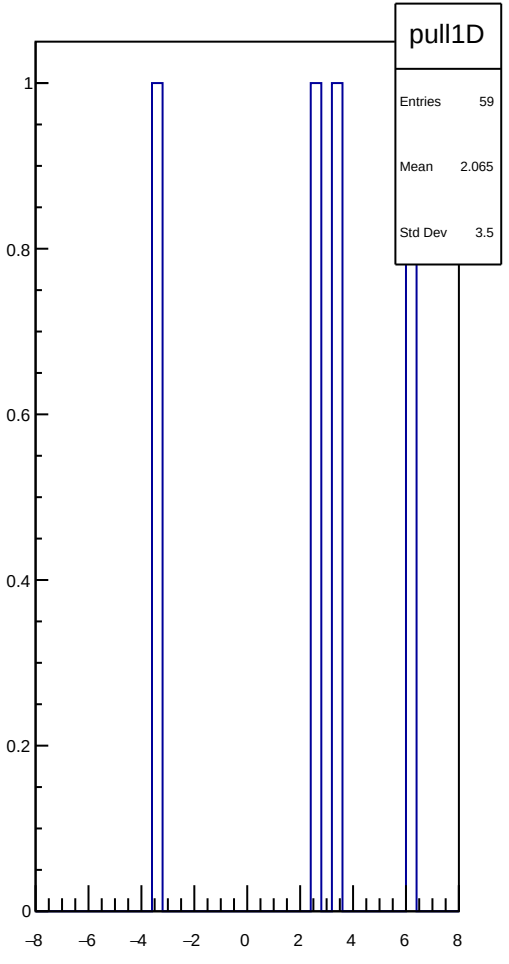

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 973.5 / 58
p0 3139 ± 2.95
3350
3300
3250
3200
3150
3100
3050
3000
2950
2900
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

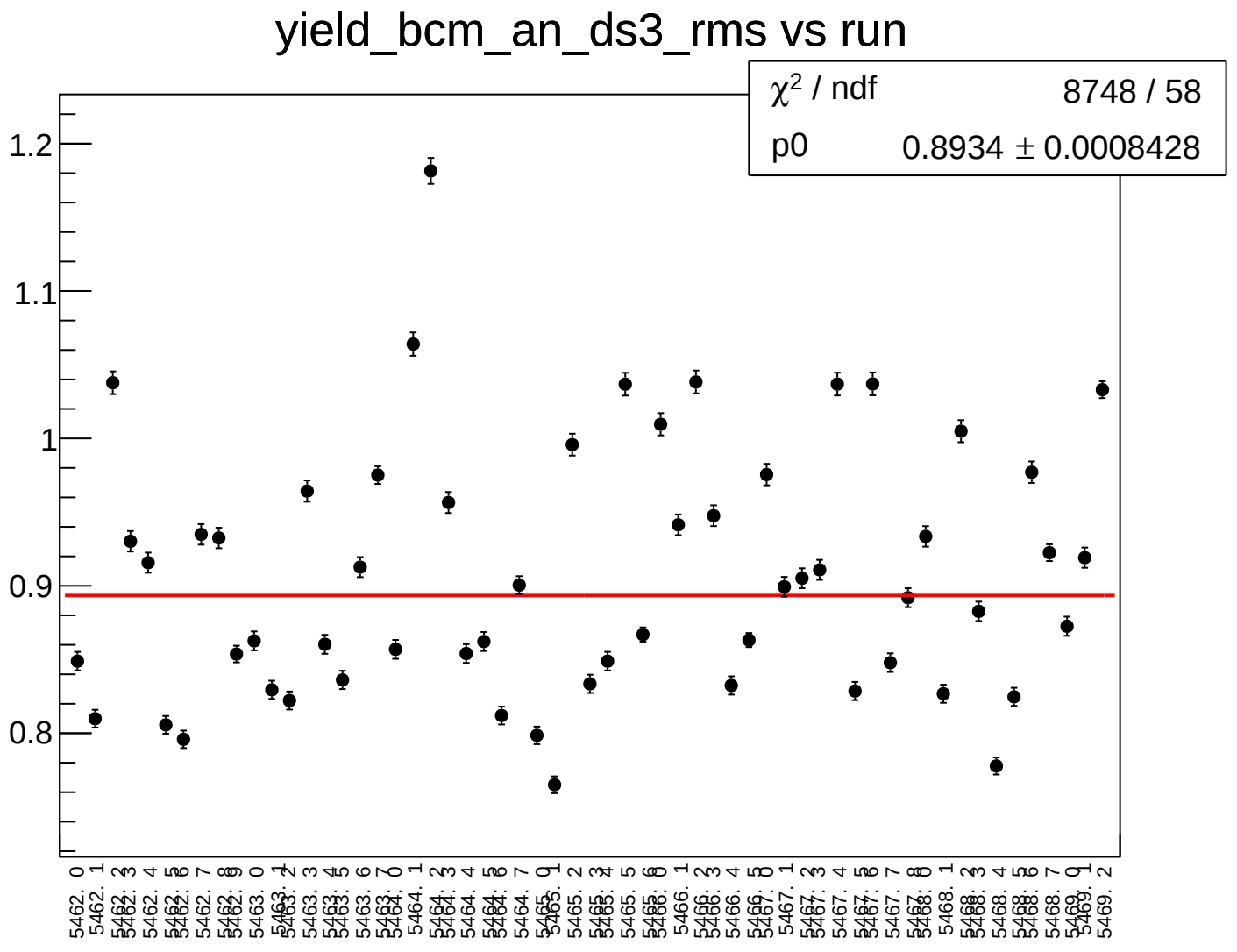

yield_bcm_an_ds_mean vs run
χ² / ndf 2.303e+04 / 58
p0 152.8 ± 0.00118
153.2
153.1
153
152.9
152.8
152.7
152.6
152.5
152.4
pull
Entries 59
Mean 13.82
Std Dev 60.55
30
20
10
0
−10
−20
−30
−40

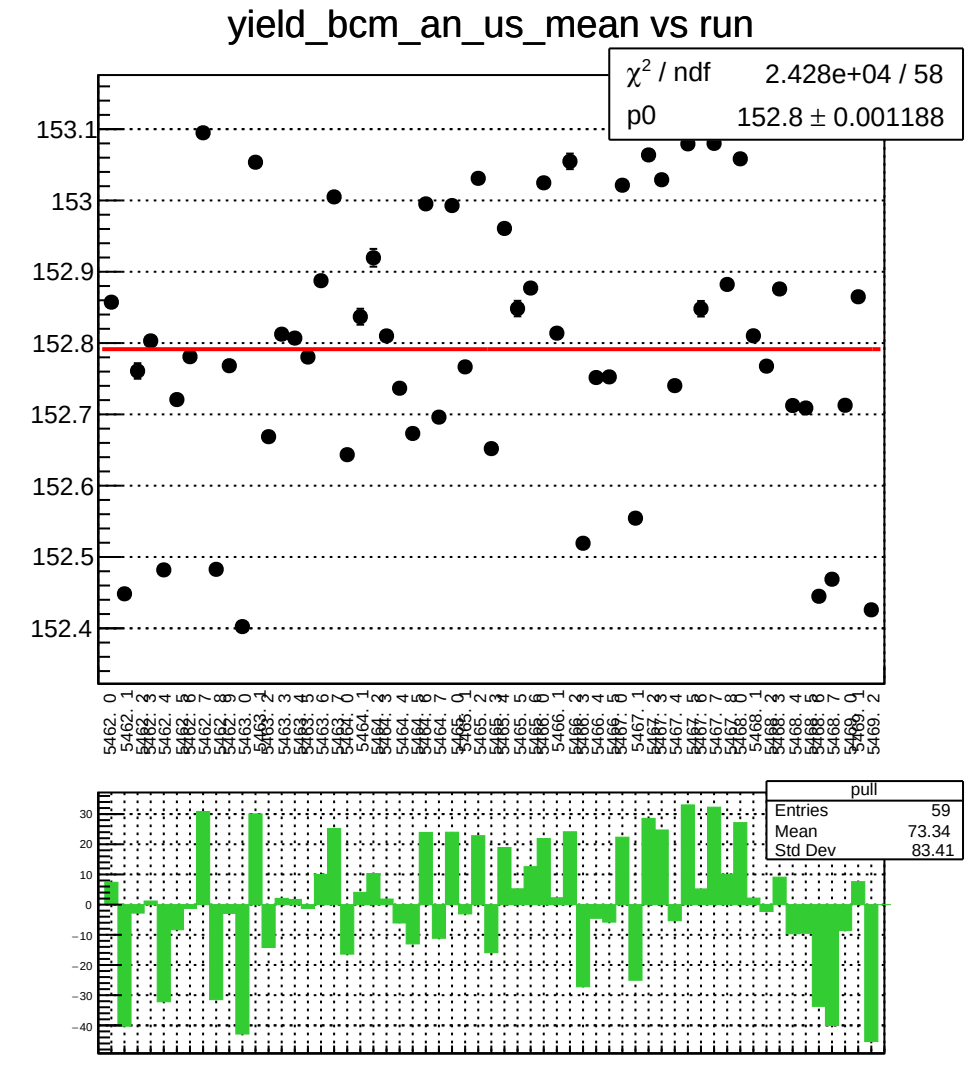

pull1D
Entries 59
Mean 0.1394
Std Dev 4.4
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

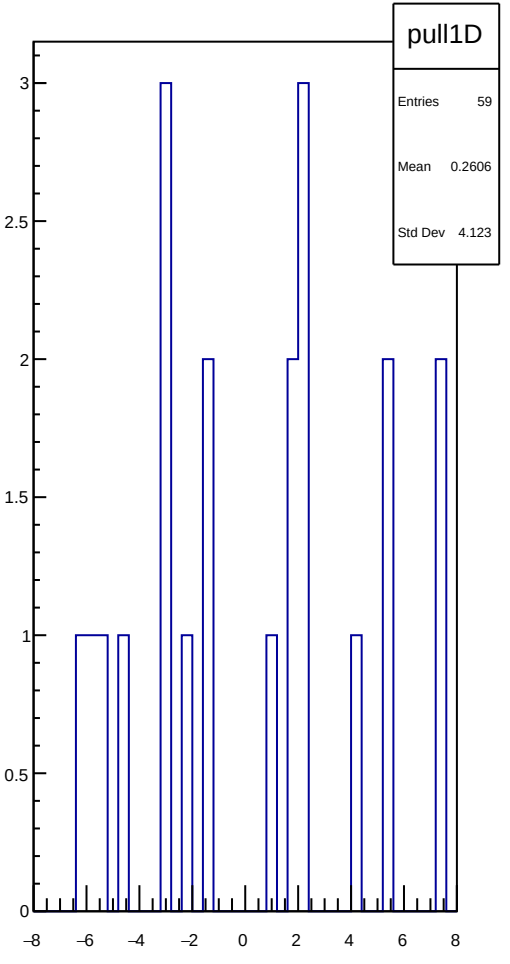

yield_bcm_an_ds_rms vs run
χ² / ndf 8430 / 58
p0 0.8845 ± 0.0008342
1.2
1.1
1
0.9
0.8

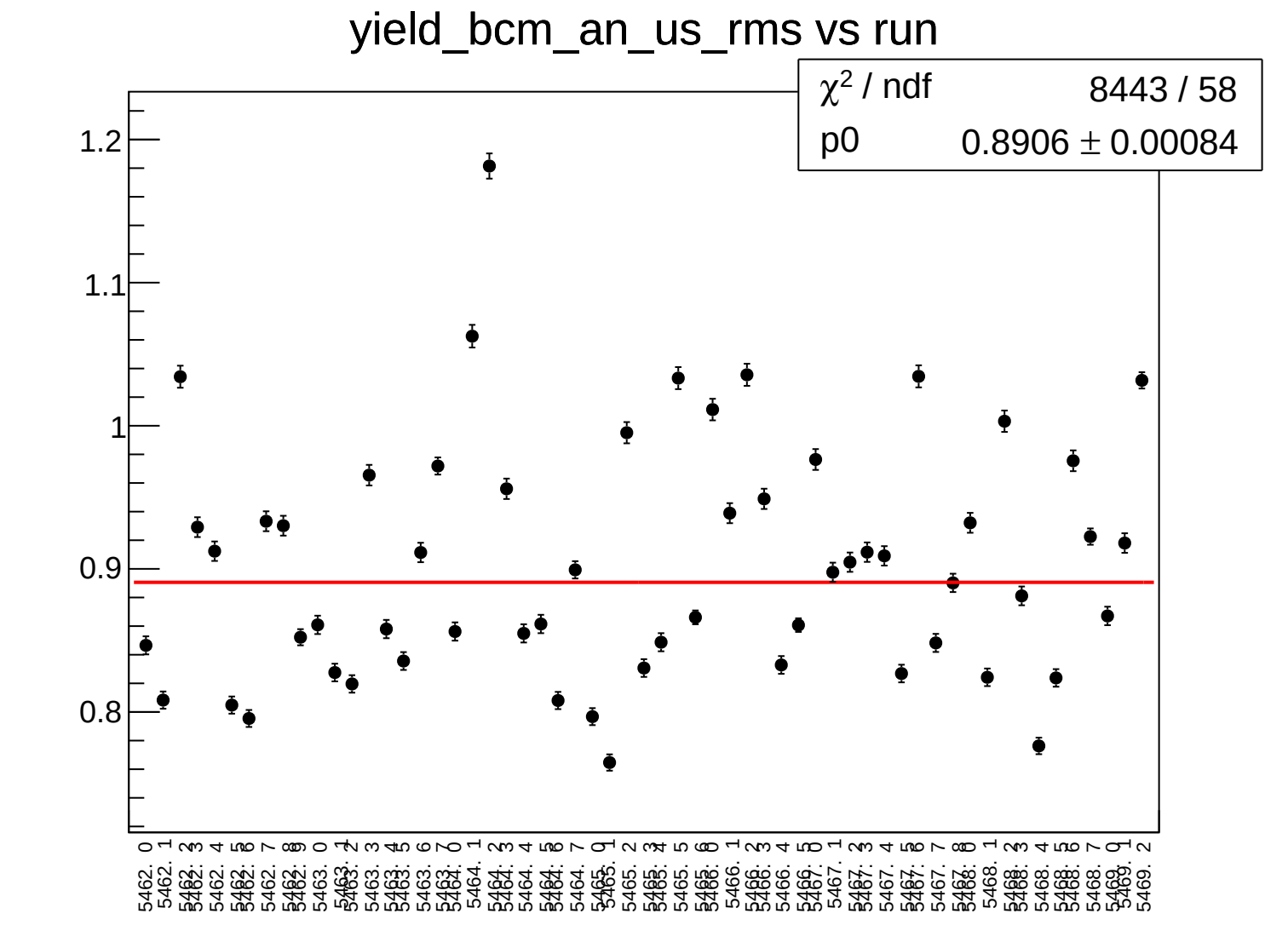

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.008e+05 / 58
p0 153.5 ± 0.001192
154
153.8
153.6
153.4
153.2
153
152.8
152.6
152.4
pull
Entries 59
Mean 1123
Std Dev 1100
60
40
20
0
−20
−40
−60
−80
−100

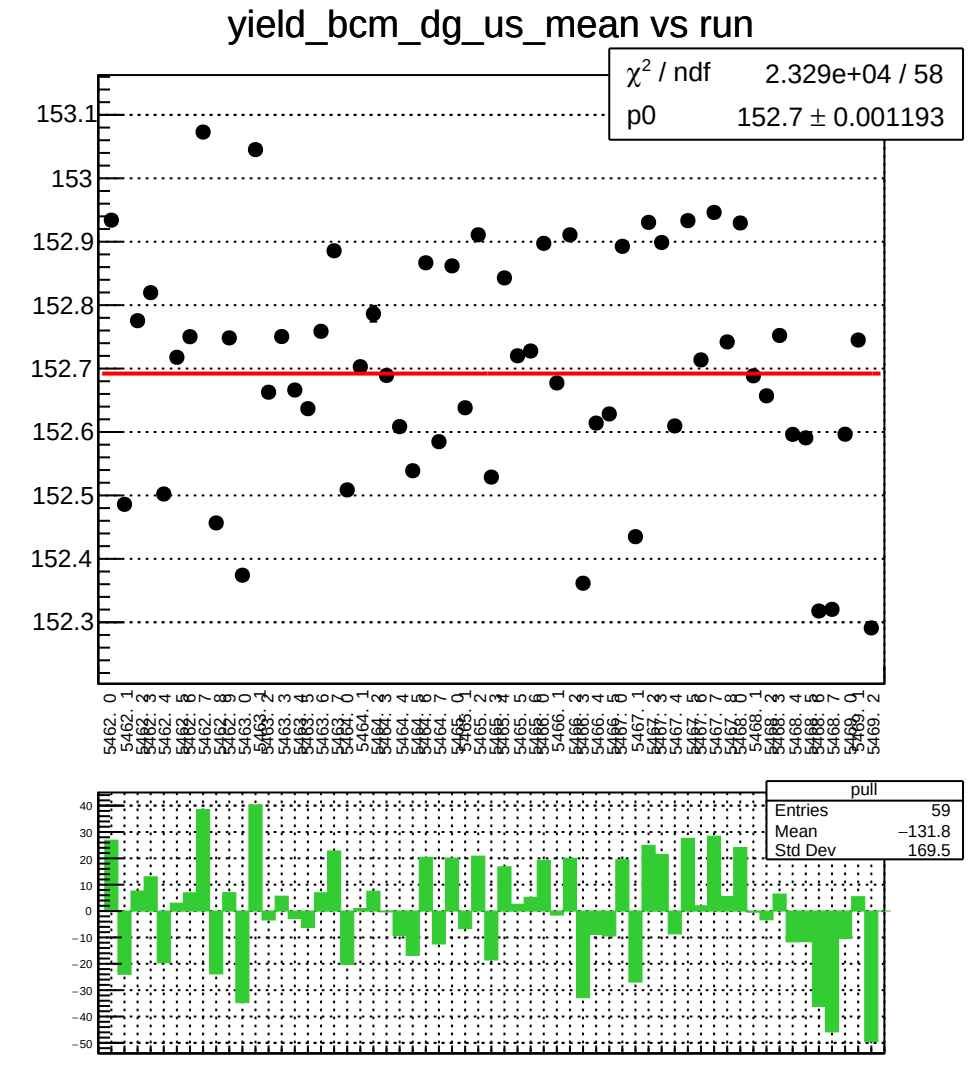

pull1D
Entries 59
Mean 2.065
Std Dev 3.5
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

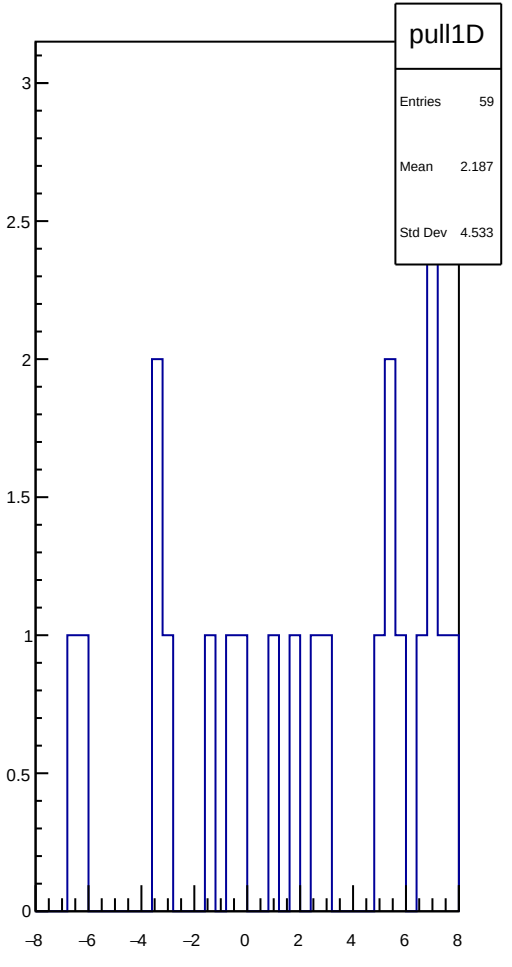

yield_bcm_an_ds3_rms vs run
χ² / ndf 8748 / 58
p0 0.8934 ± 0.0008428
1.2
1.1
1
0.9
0.8

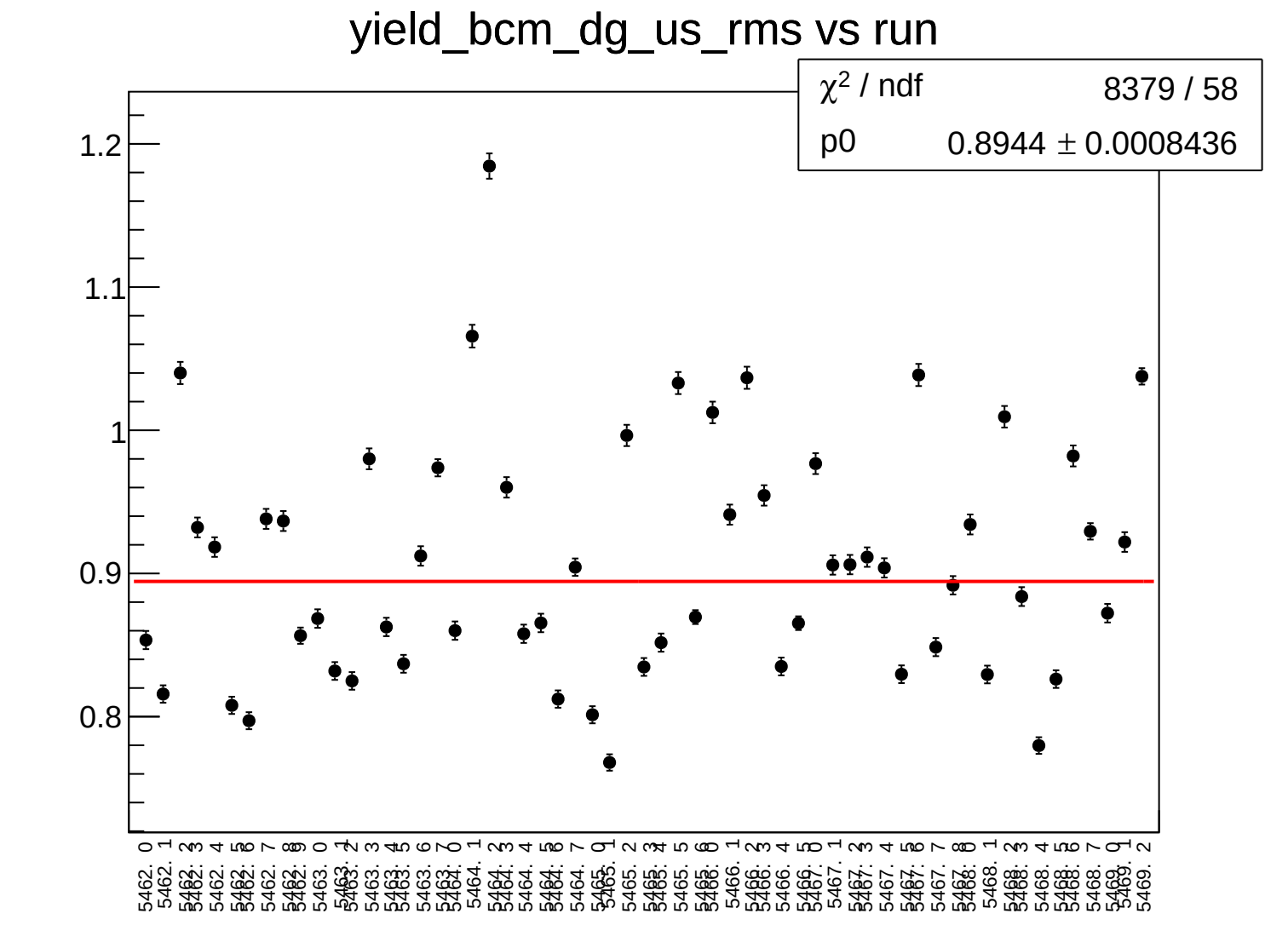

yield_bcm_an_us_mean vs run
χ² / ndf 2.428e+04 / 58
p0 152.8 ± 0.001188
153.1
153
152.9
152.8
152.7
152.6
152.5
152.4
pull
Entries 59
Mean 73.34
Std Dev 83.41
30
20
10
0
−10
−20
−30
−40

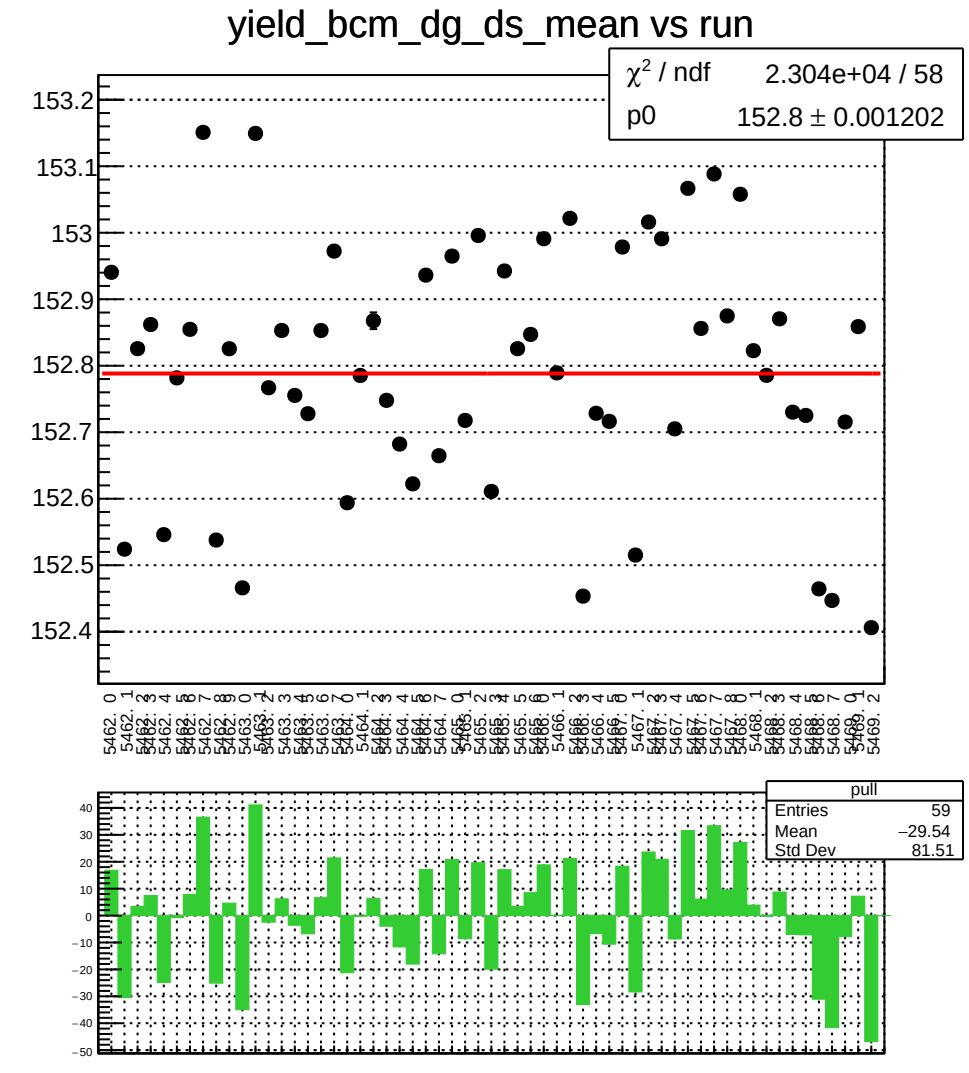

pull1D
Entries 59
Mean 0.2606
Std Dev 4.123
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

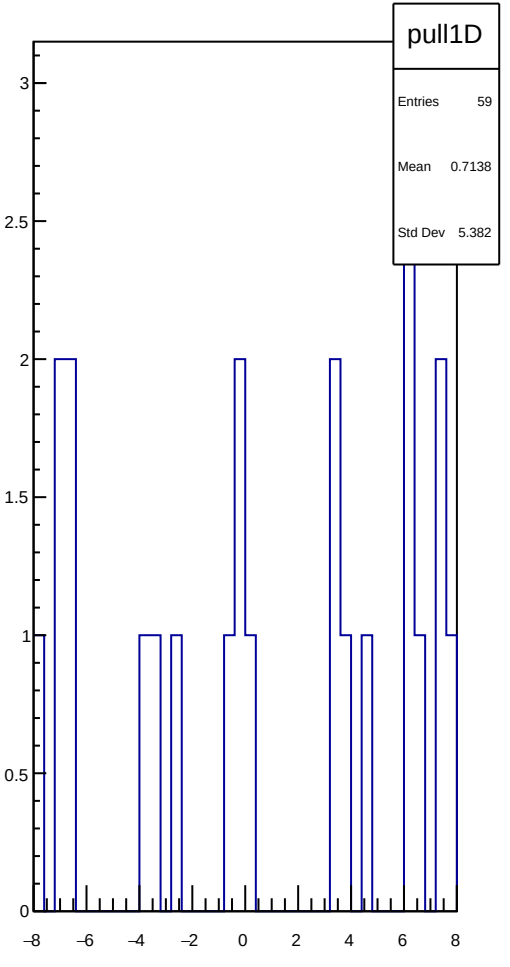

yield_bcm_an_us_rms vs run
χ^2 / ndf 8443 / 58
p0 0.8906 ± 0.00084
1.2
1.1
1
0.9
0.8

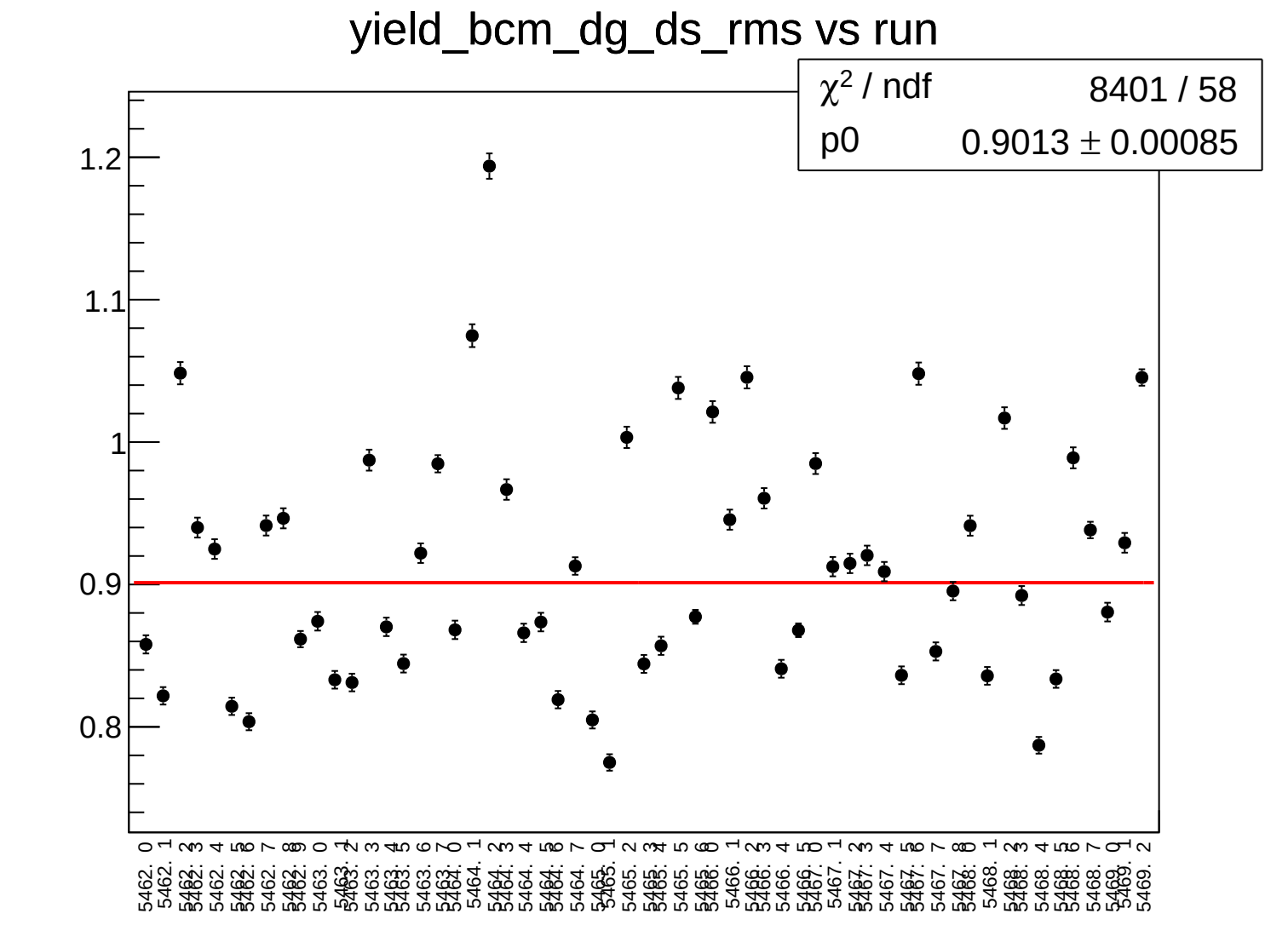

yield_bcm_dg_us_mean vs run
χ² / ndf 2.329e+04 / 58
p0 152.7 ± 0.001193
153.1
153
152.9
152.8
152.7
152.6
152.5
152.4
152.3
pull
Entries 59
Mean −131.8
Std Dev 169.5
40
30
20
10
0
−10
−20
−30
−40
−50

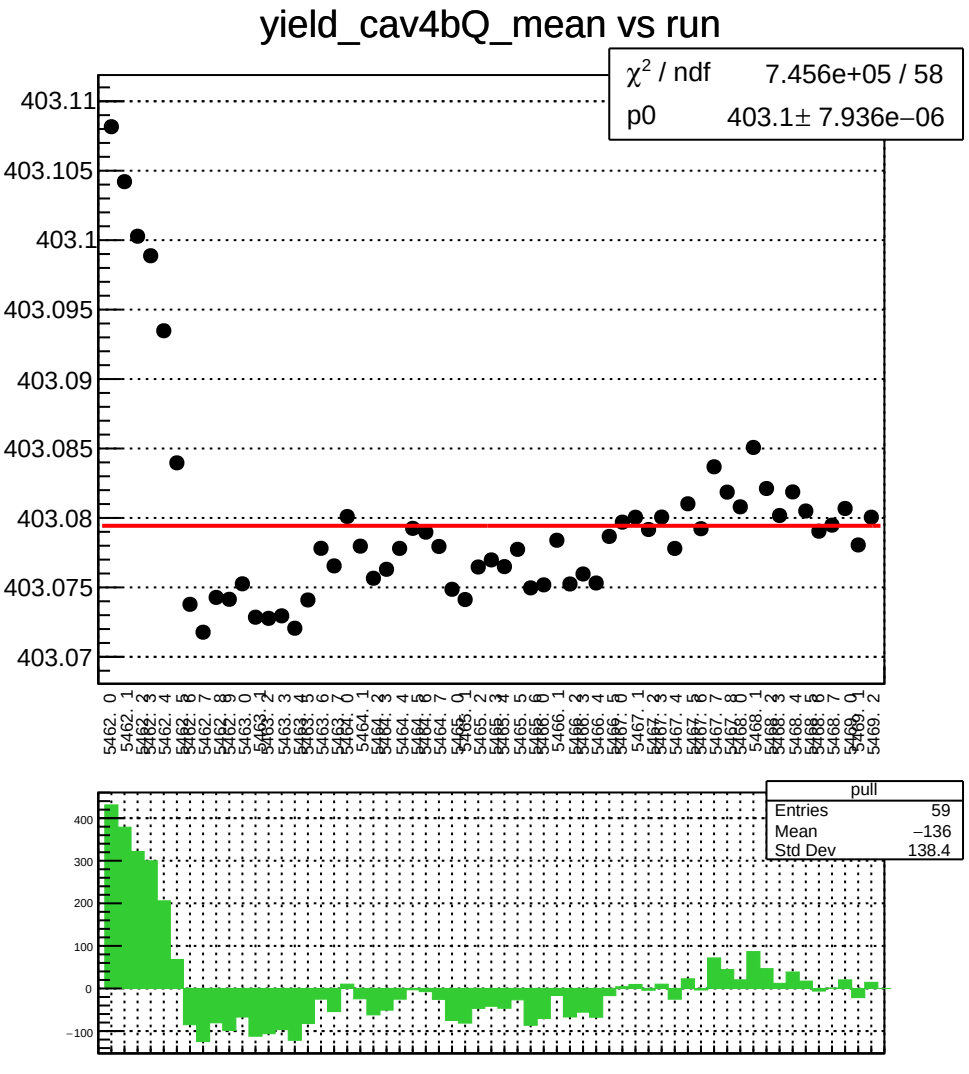

pull1D
Entries 59
Mean 2.187
Std Dev 4.533
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

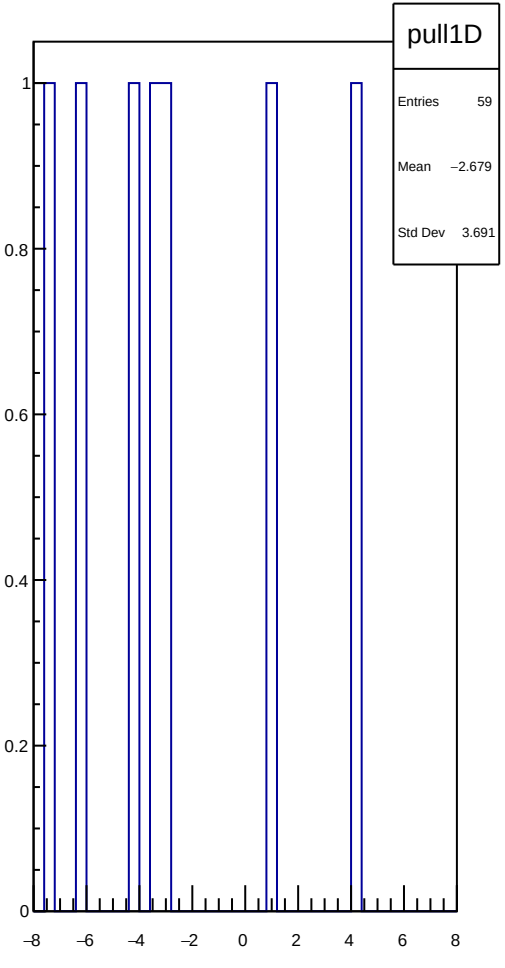

yield_bcm_dg_us_rms vs run
χ² / ndf 8379 / 58
p0 0.8944 ± 0.0008436
1.2
1.1
1
0.9
0.8

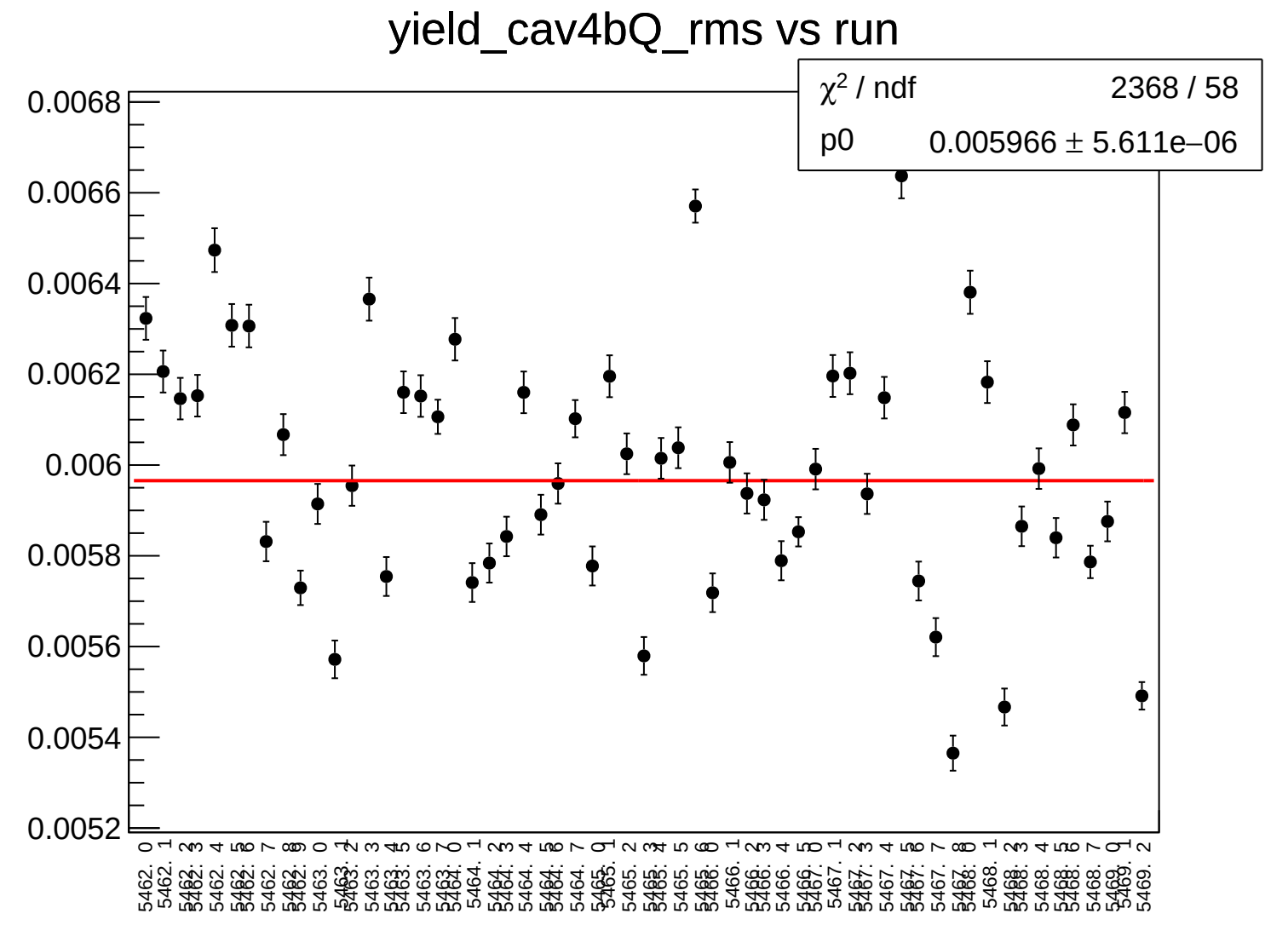

yield_bcm_dg_ds_mean vs run
χ² / ndf 2.304e+04 / 58
p0 152.8 ± 0.001202
153.2
153.1
153
152.9
152.8
152.7
152.6
152.5
152.4
pull
Entries 59
Mean −29.54
Std Dev 81.51
40
30
20
10
0
−10
−20
−30
−40
−50

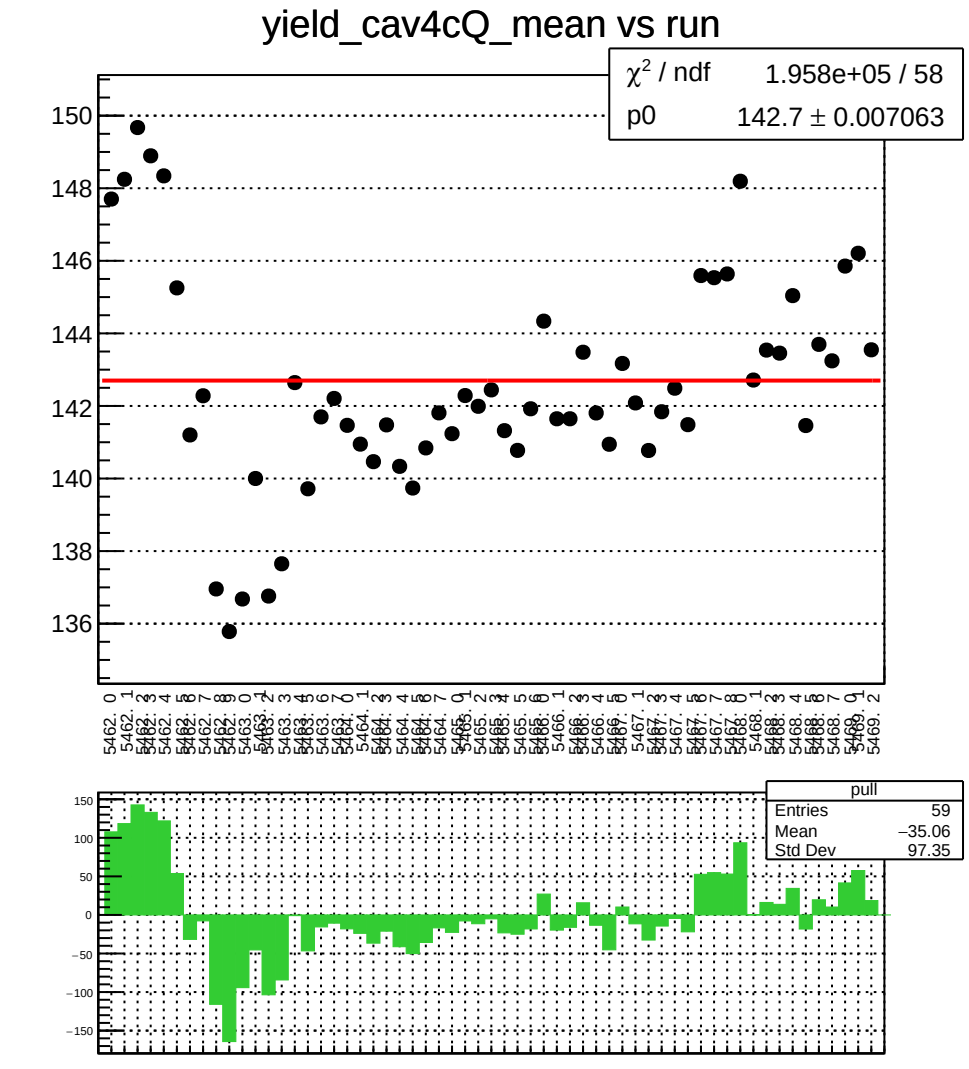

pull1D
Entries 59
Mean 0.7138
Std Dev 5.382
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

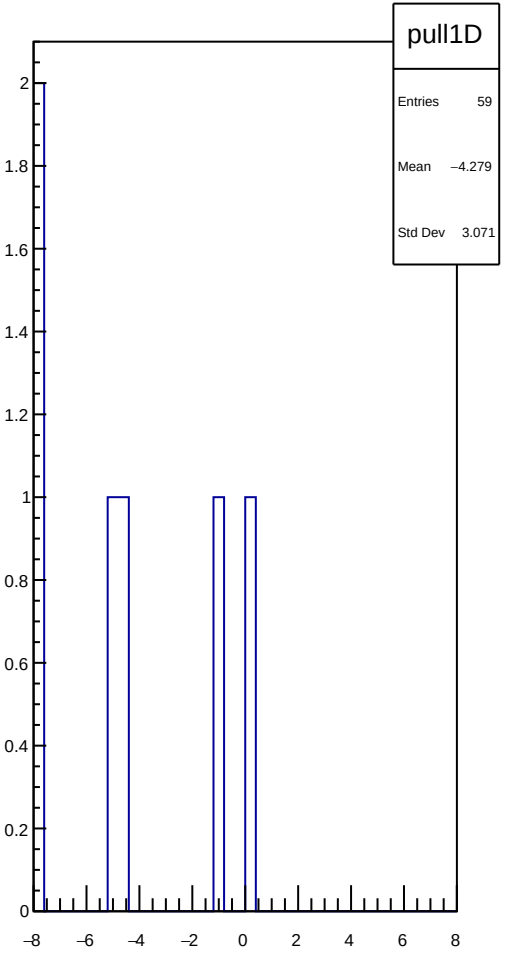

yield_bcm_dg_ds_rms vs run
χ² / ndf 8401 / 58
p0 0.9013 ± 0.00085
1.2
1.1
1
0.9
0.8
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

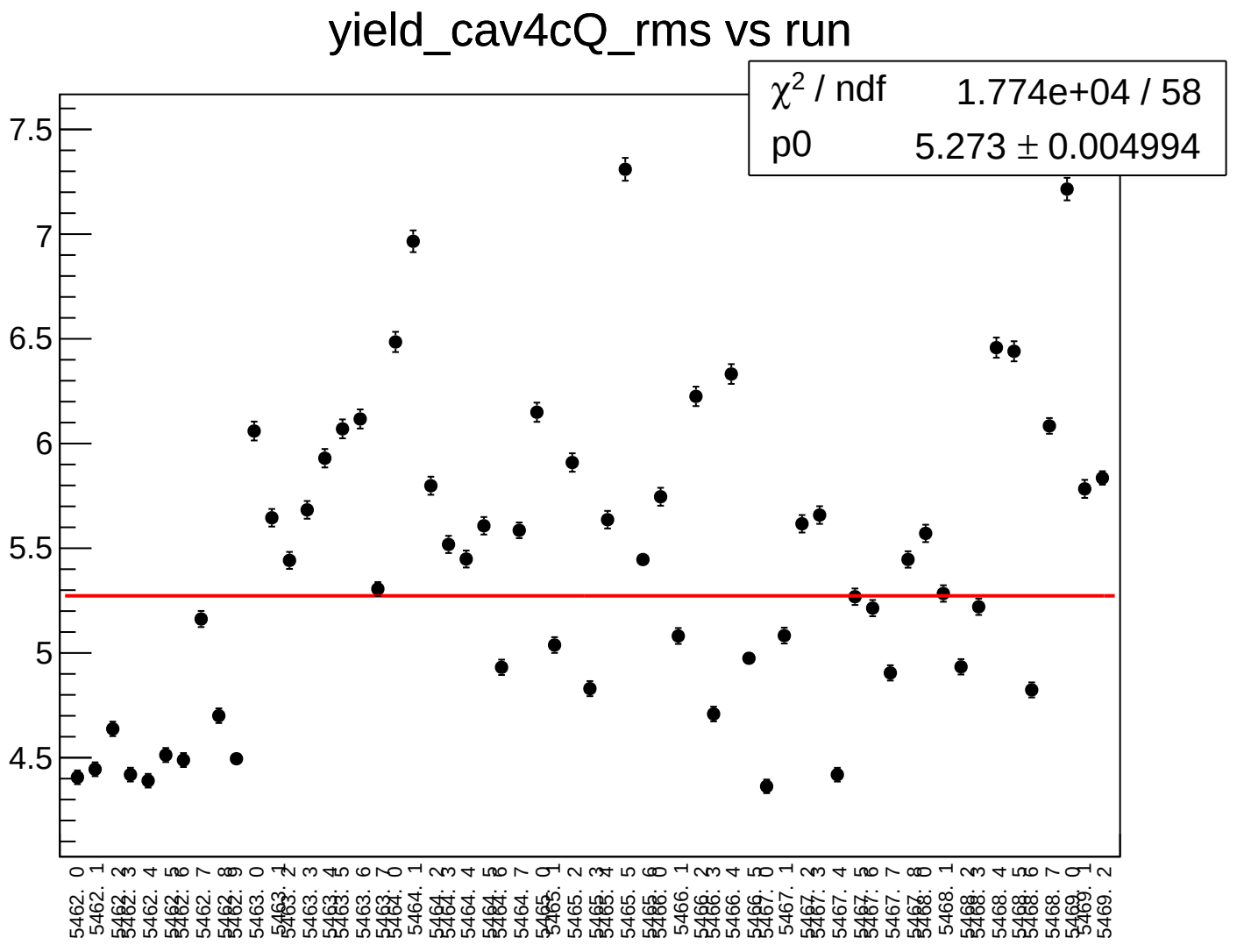

yield_cav4bQ_mean vs run
χ² / ndf 7.456e+05 / 58
p0 403.1± 7.936e−06
403.11
403.105
403.1
403.095
403.09
403.085
403.08
403.075
403.07
pull
Entries 59
Mean −136
Std Dev 138.4
400
300
200
100
0
−100

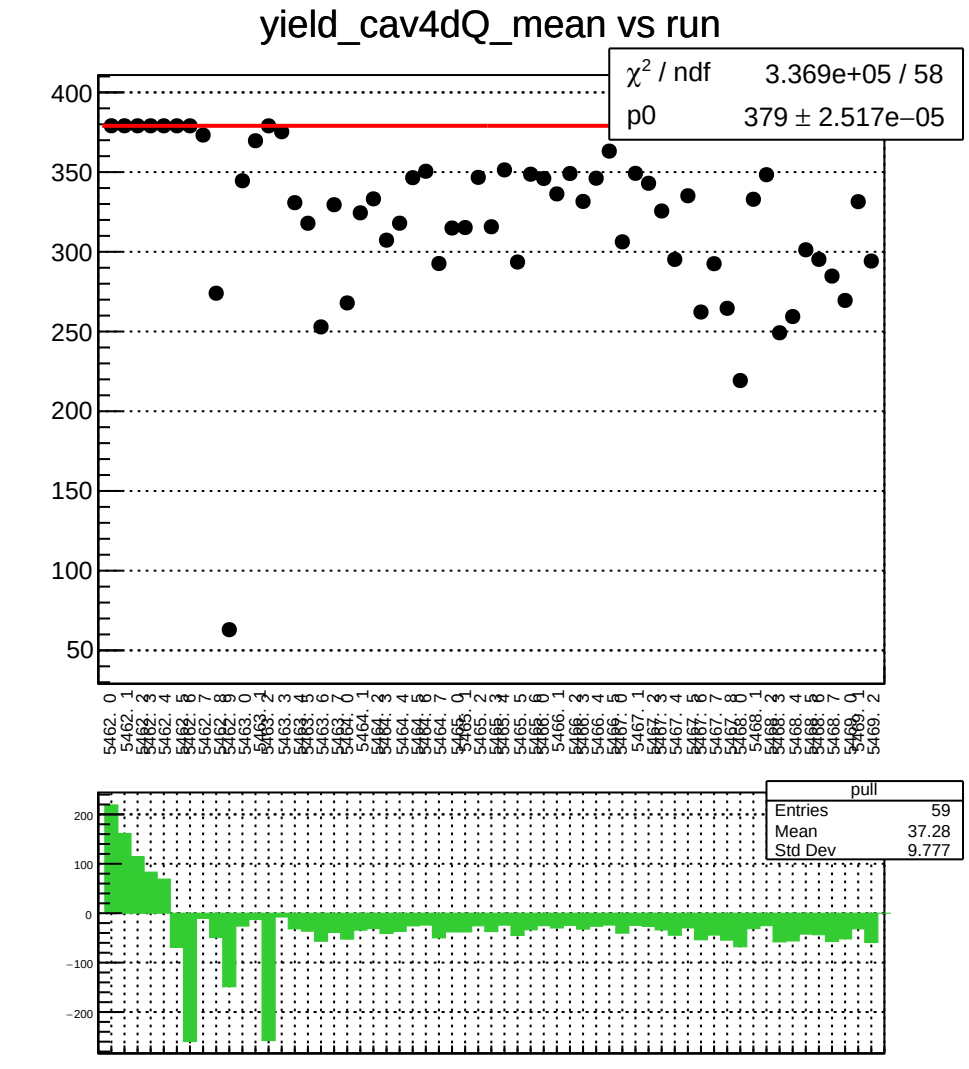

pull1D
Entries 59
Mean −2.679
Std Dev 3.691
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

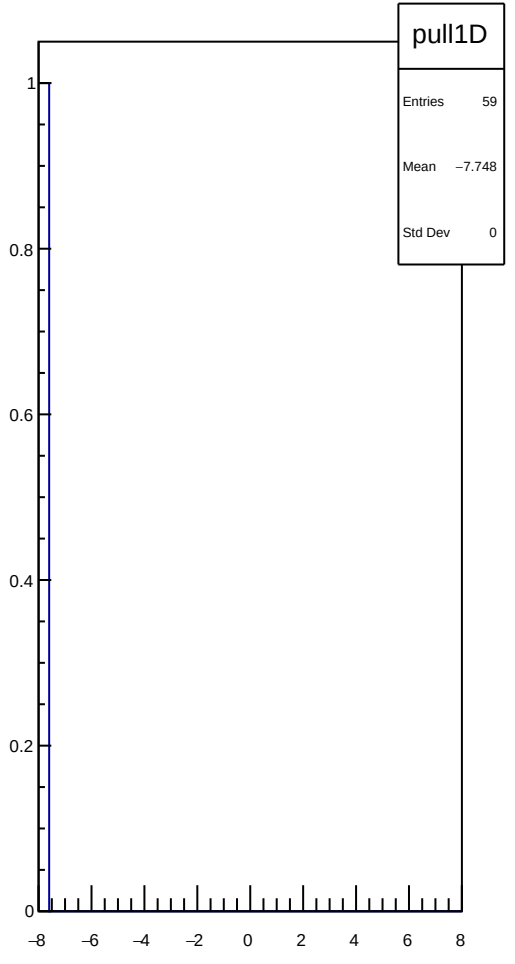

yield_cav4bQ_rms vs run
χ² / ndf 2368 / 58
p0 0.005966 ± 5.611e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

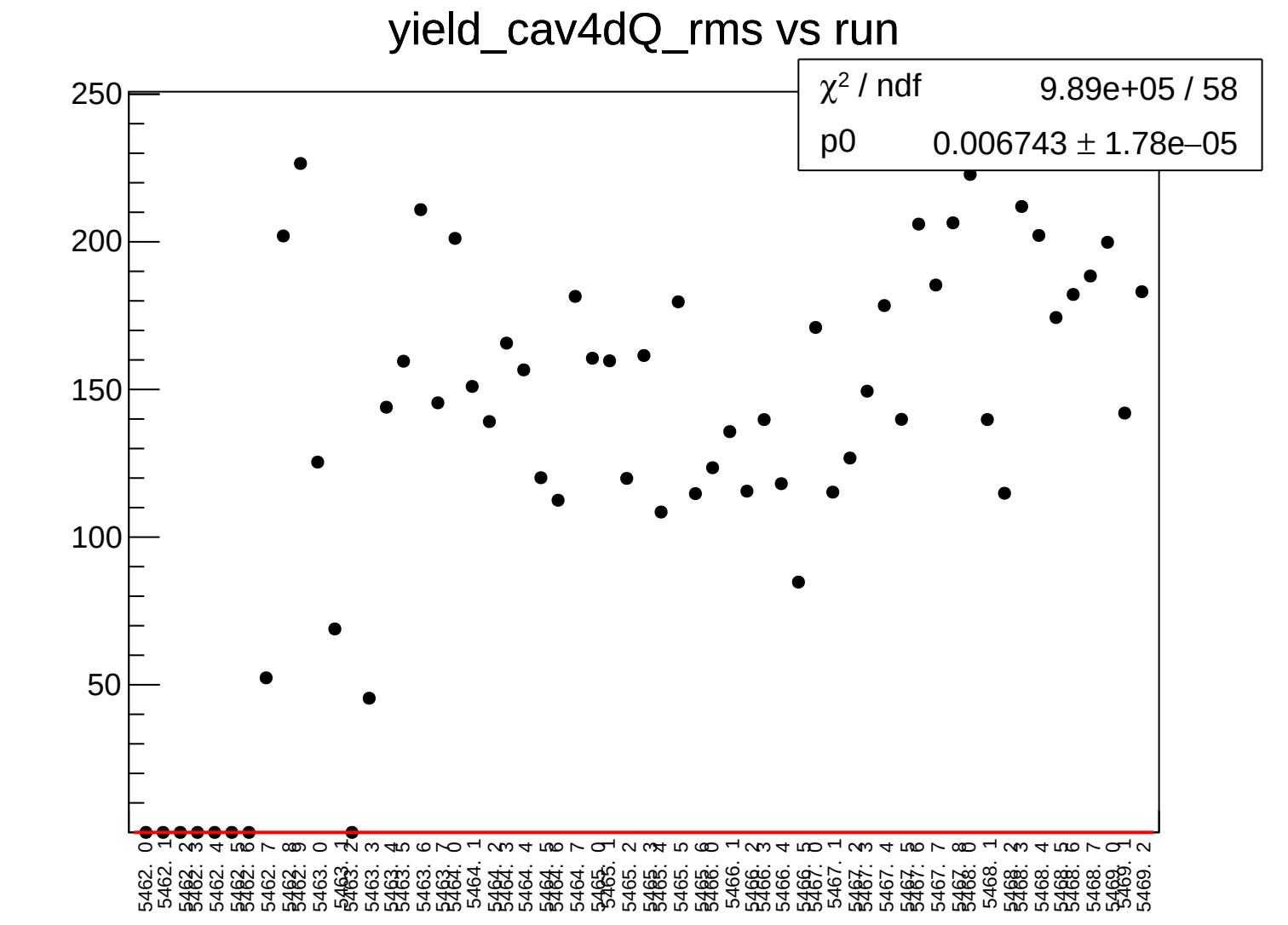

yield_cav4cQ_mean vs run
χ² / ndf 1.958e+05 / 58
p0 142.7 ± 0.007063
150
148
146
144
142
140
138
136
pull
Entries 59
Mean −35.06
Std Dev 97.35
150
100
50
0
−50
−100
−150

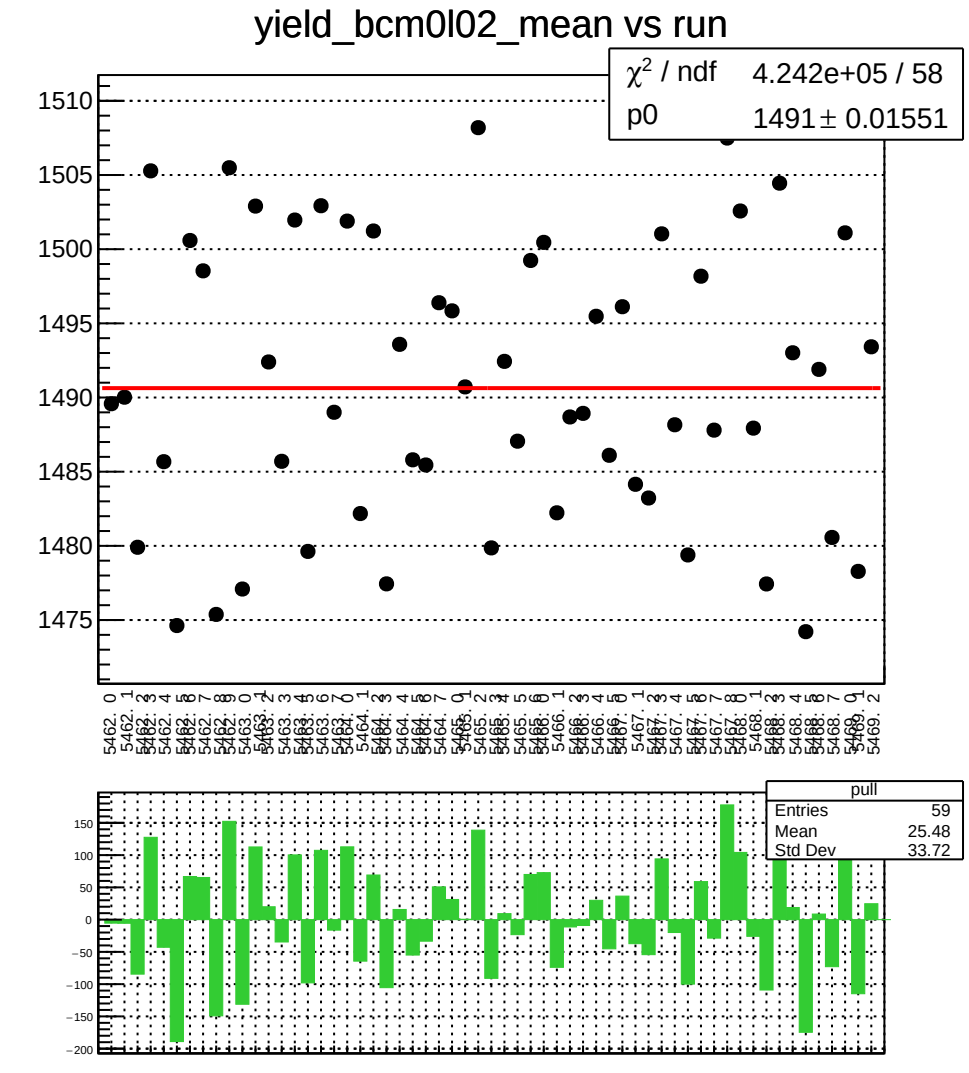

pull1D
Entries 59
Mean −4.279
Std Dev 3.071
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

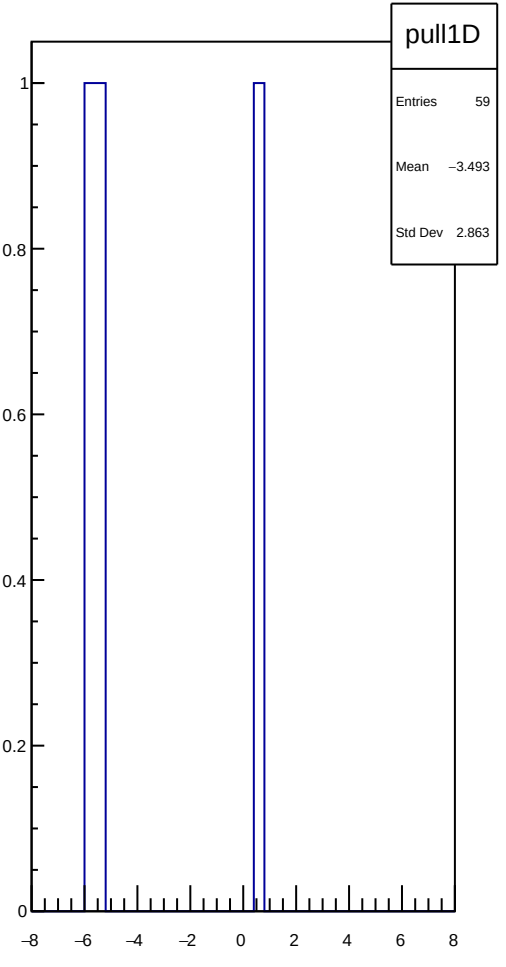

yield_cav4cQ_rms vs run
χ² / ndf 1.774e+04 / 58
p0 5.273 ± 0.004994
7.5
7
6.5
6
5.5
5
4.5

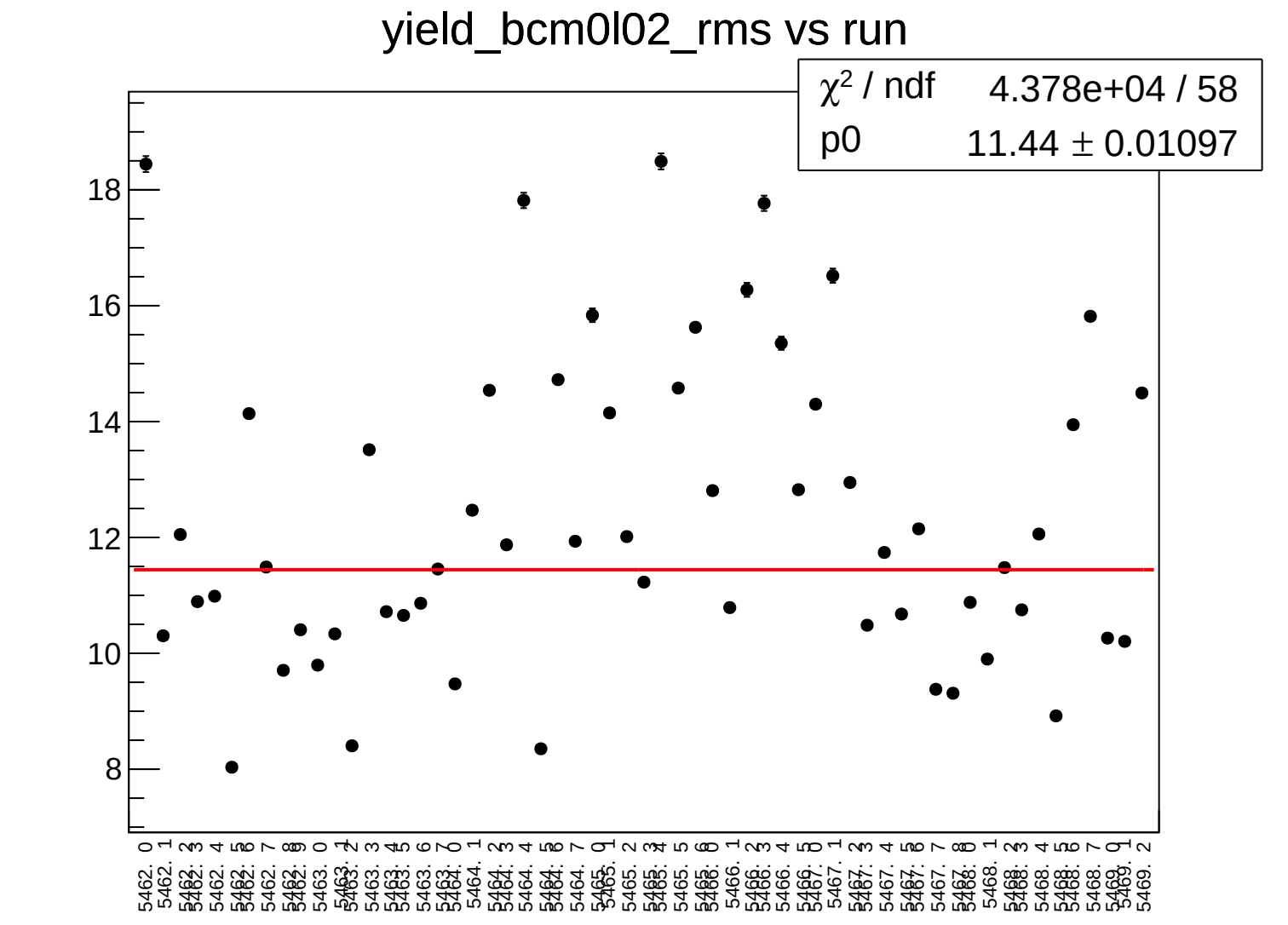

yield_cav4dQ_mean vs run
χ² / ndf 3.369e+05 / 58
p0 379 ± 2.517e−05
pull
Entries 59
Mean 37.28
Std Dev 9.777

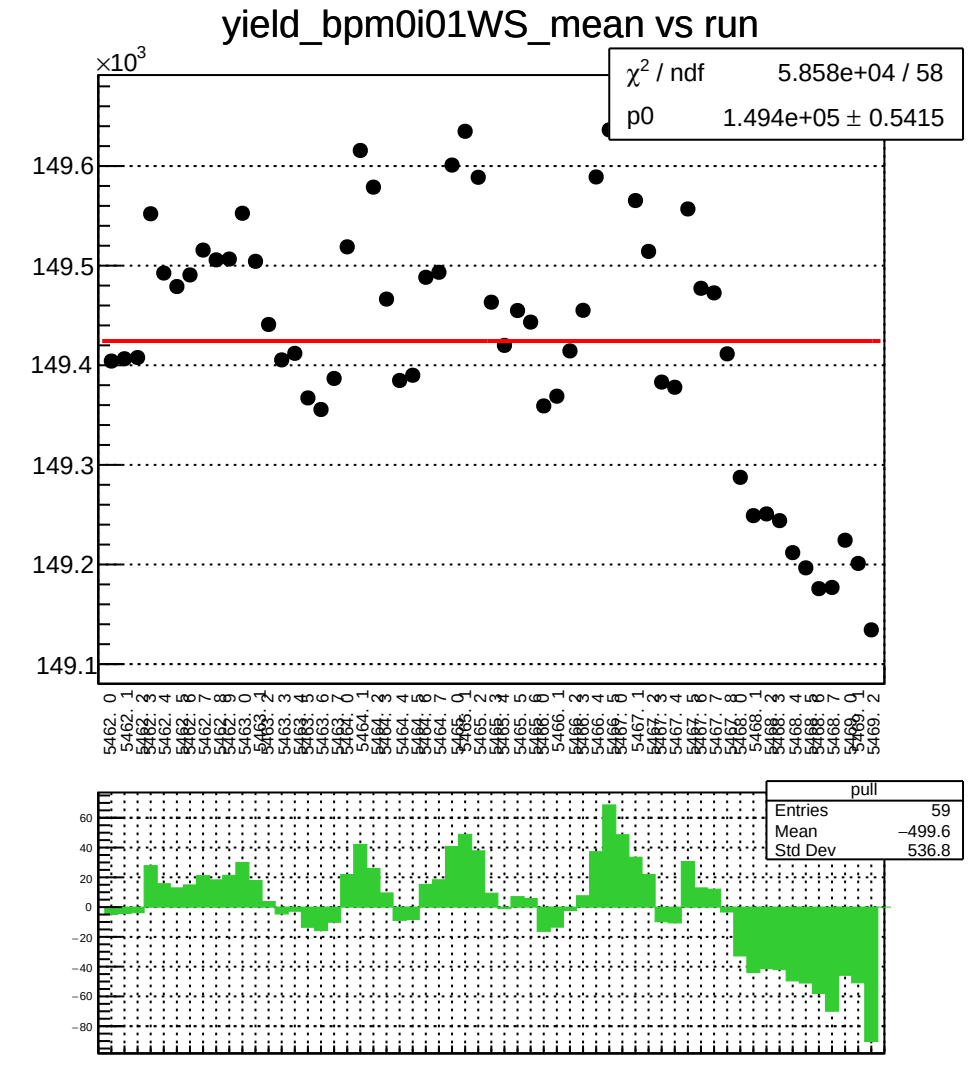

pull1D
Entries 59
Mean −7.748
Std Dev 0

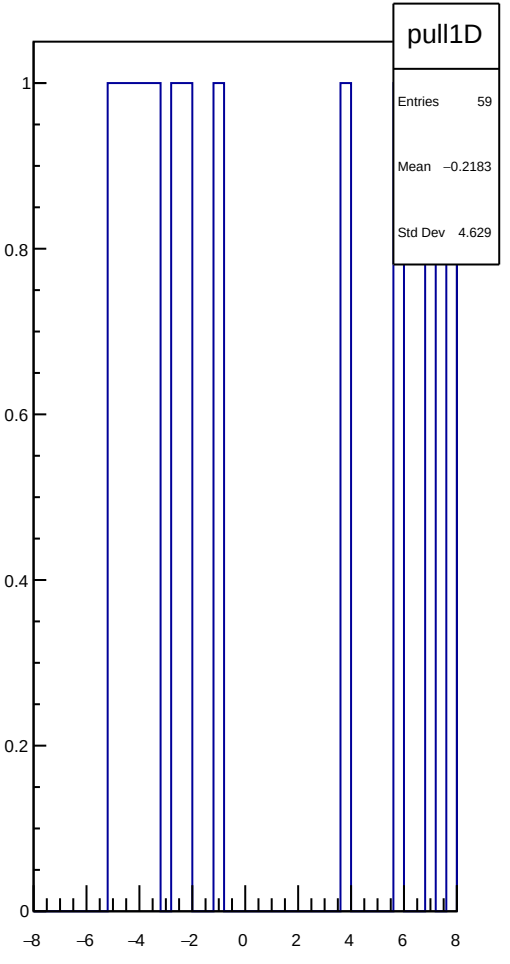

yield_cav4dQ_rms vs run
χ^2 / ndf 9.89e+05 / 58
p0 0.006743 ± 1.78e−05
250
200
150
100
50

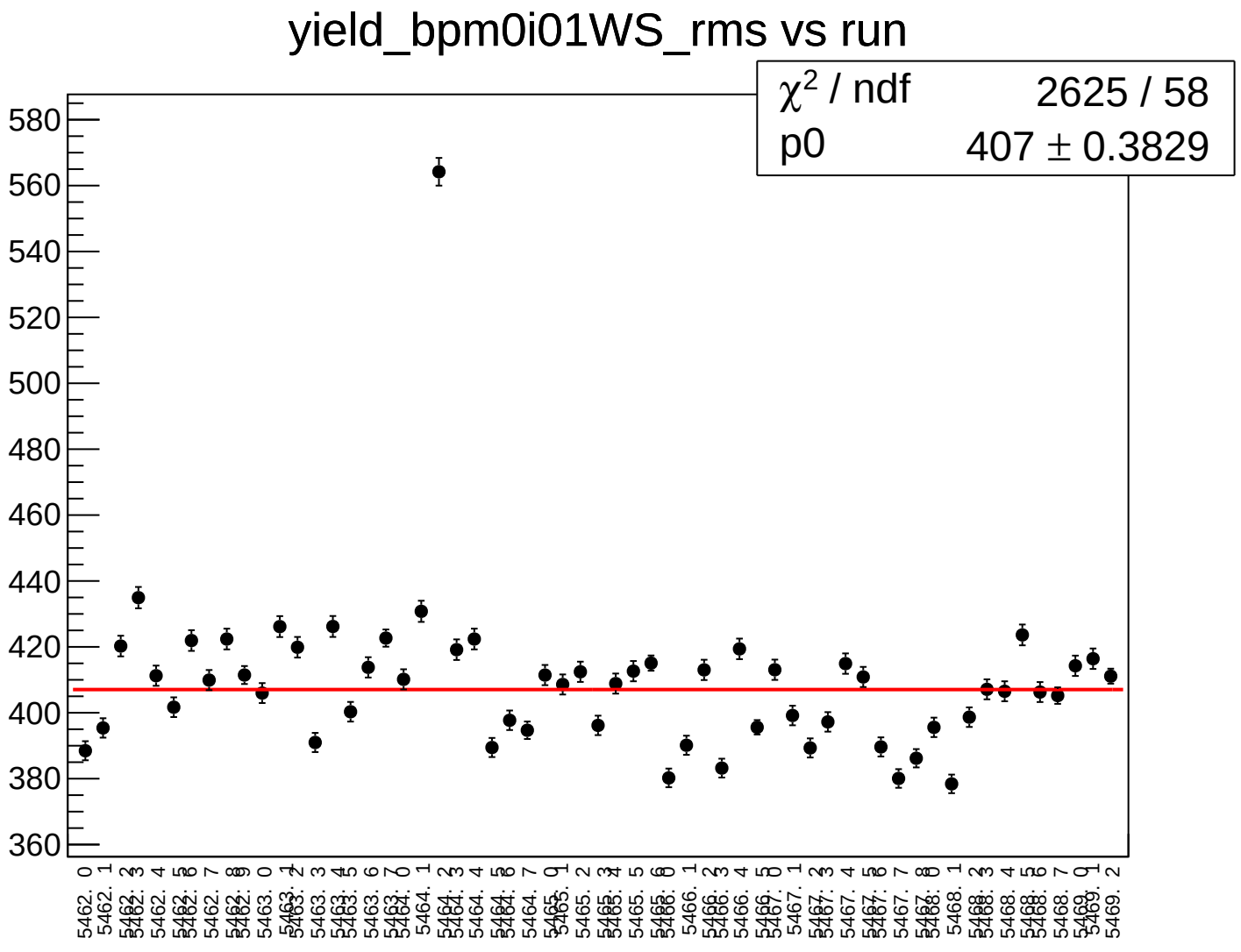

yield_bcm0l02_mean vs run
χ² / ndf 4.242e+05 / 58
p0 1491 ± 0.01551
pull
Entries 59
Mean 25.48
Std Dev 33.72

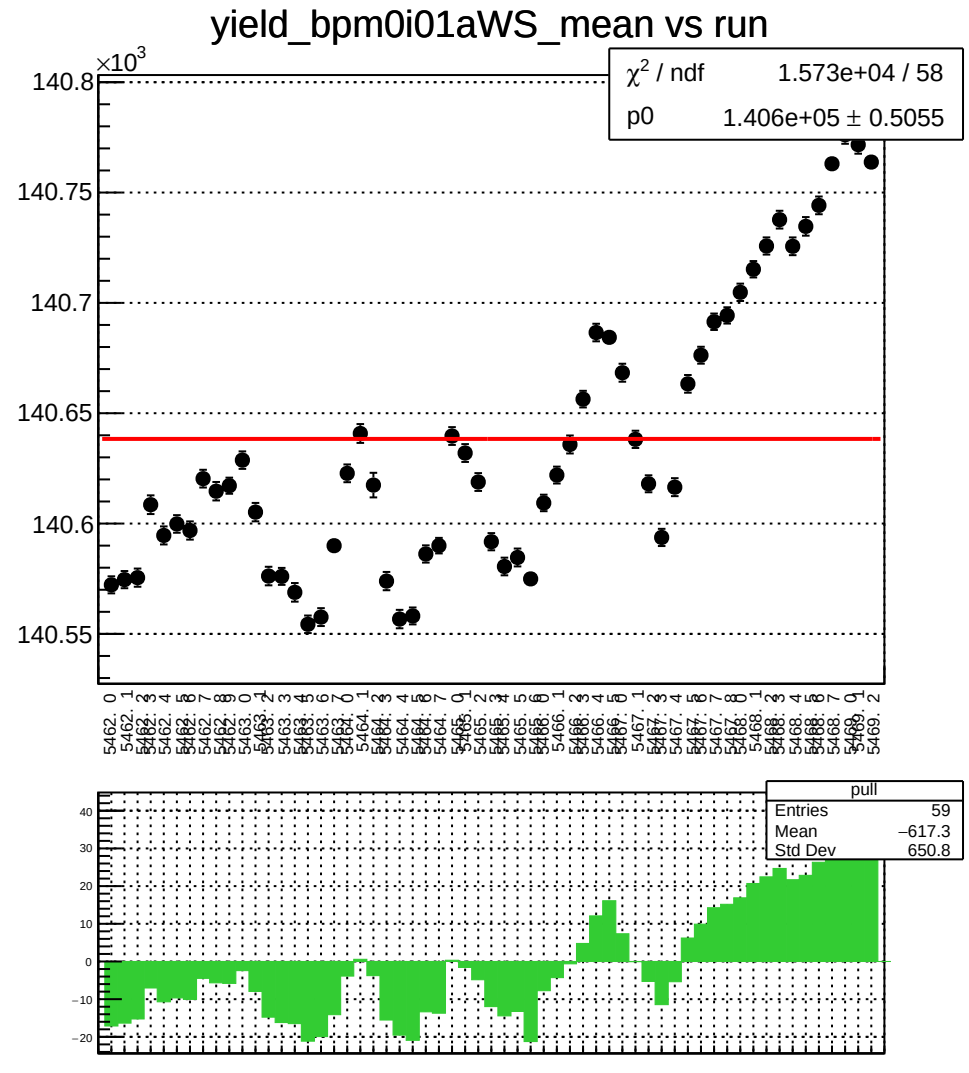

pull1D
Entries 59
Mean −3.493
Std Dev 2.863

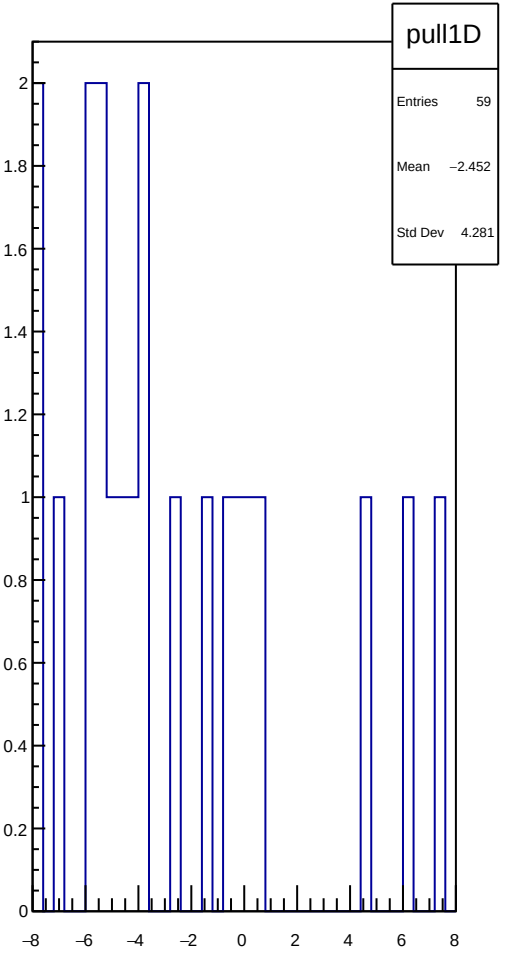

yield_bcm0l02_rms vs run
χ^2 / ndf 4.378e+04 / 58
p0 11.44 ± 0.01097
18
16
14
12
10
8
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5463. 8
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5464. 8
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5465. 7
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

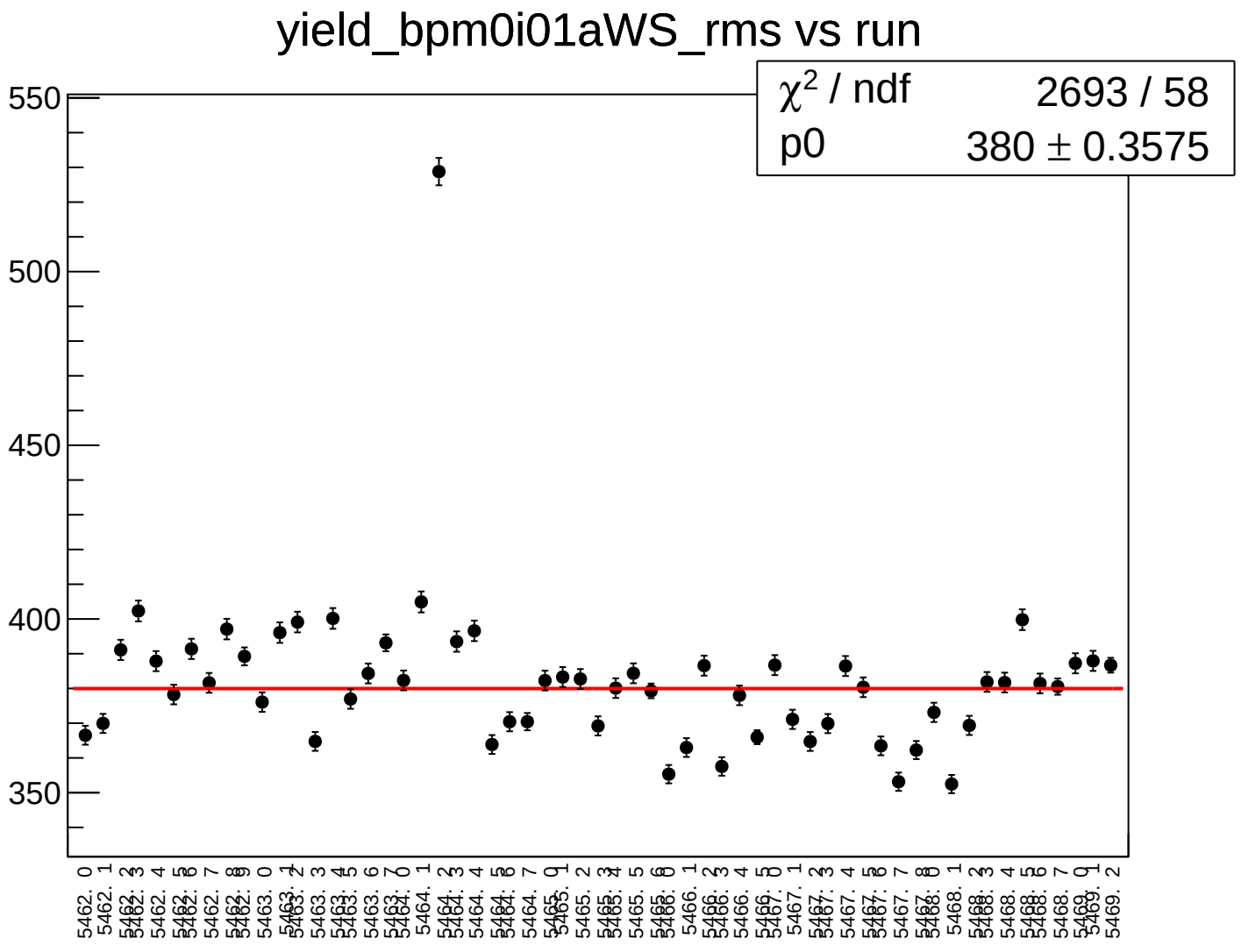

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 5.858e+04 / 58
p0 1.494e+05 ± 0.5415
149.6
149.5
149.4
149.3
149.2
149.1
pull
Entries 59
Mean −499.6
Std Dev 536.8
60
40
20
0
−20
−40
−60
−80

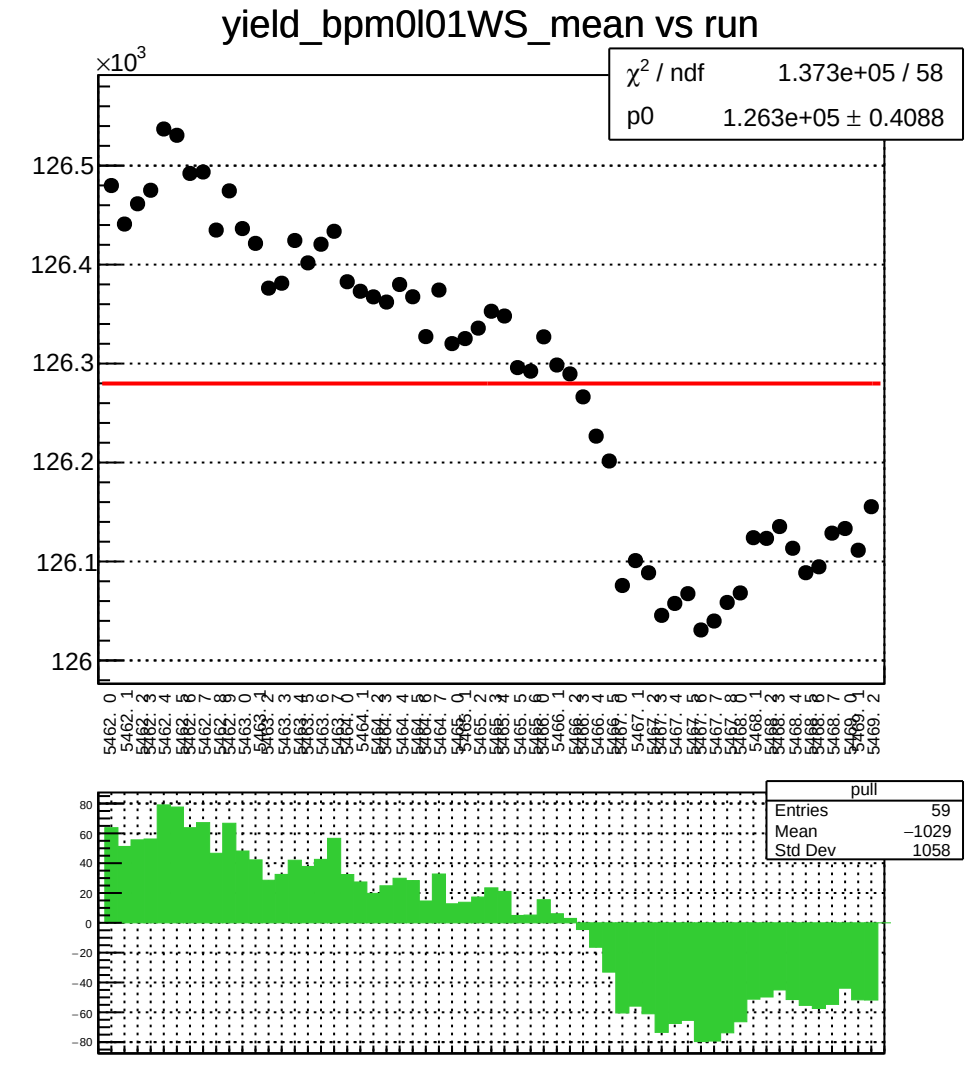

pull1D
Entries 59
Mean −0.2183
Std Dev 4.629
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

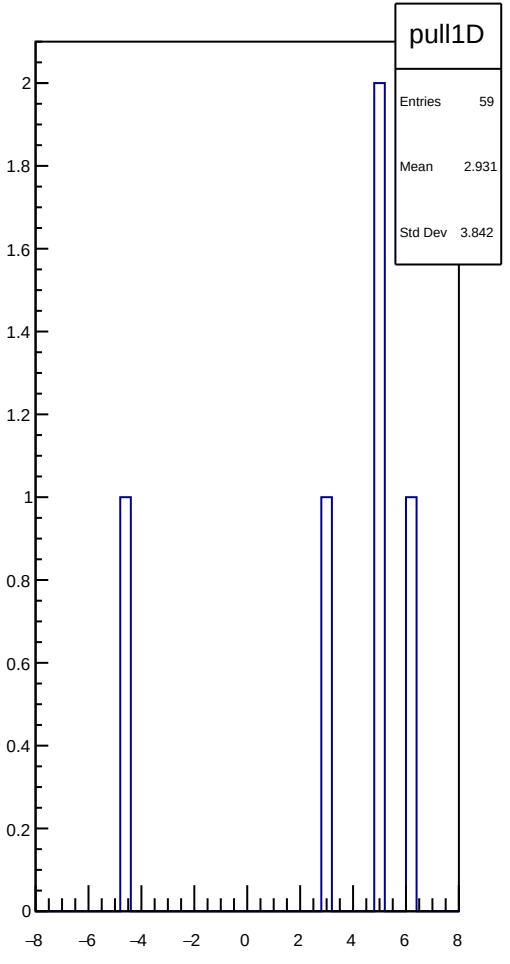

yield_bpm0i01WS_rms vs run
χ² / ndf 2625 / 58
p0 407 ± 0.3829
580
560
540
520
500
480
460
440
420
400
380
360

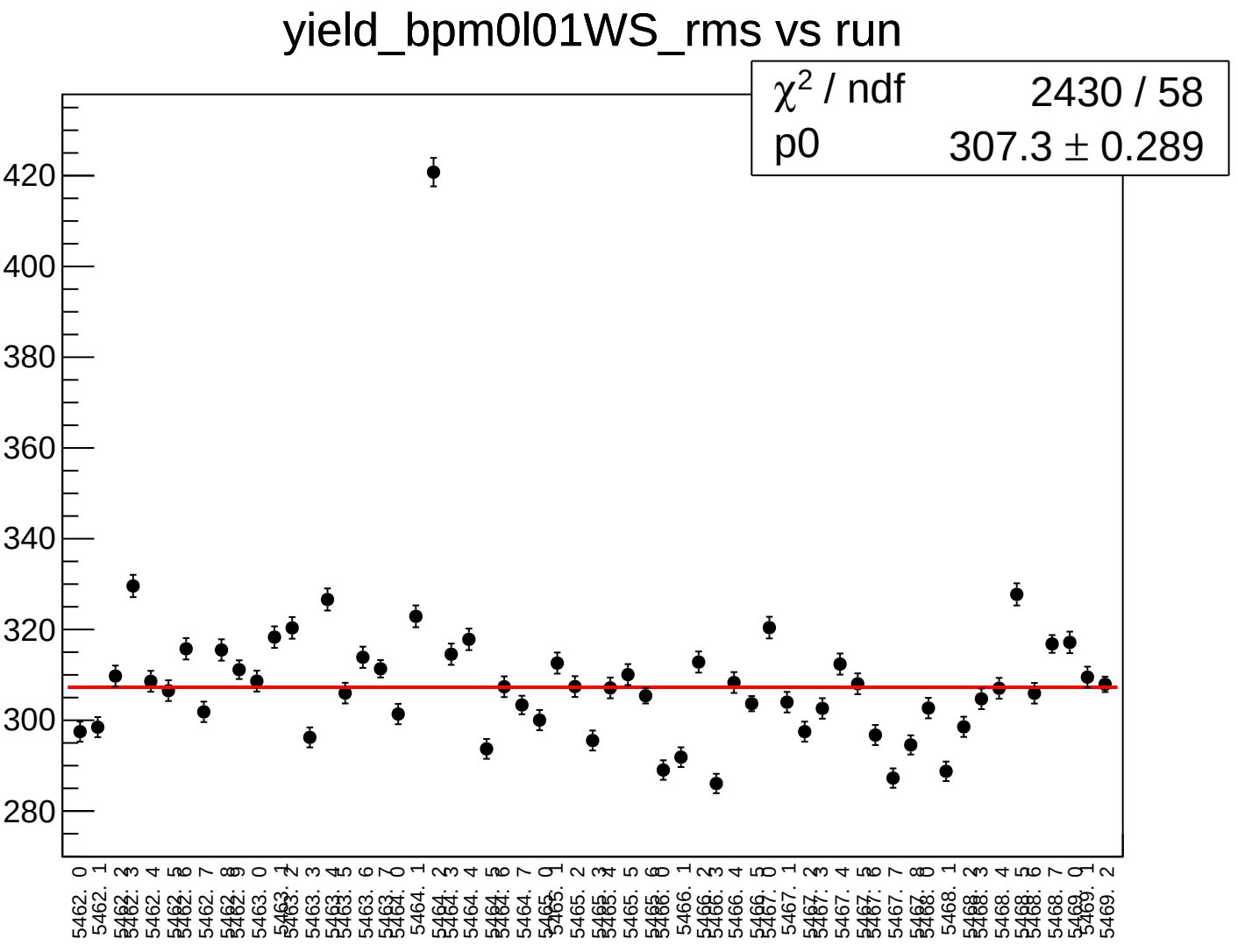

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.573e+04 / 58
p0 1.406e+05 ± 0.5055
140.8
140.75
140.7
140.65
140.6
140.55
pull
Entries 59
Mean −617.3
Std Dev 650.8
40
30
20
10
0
−10
−20

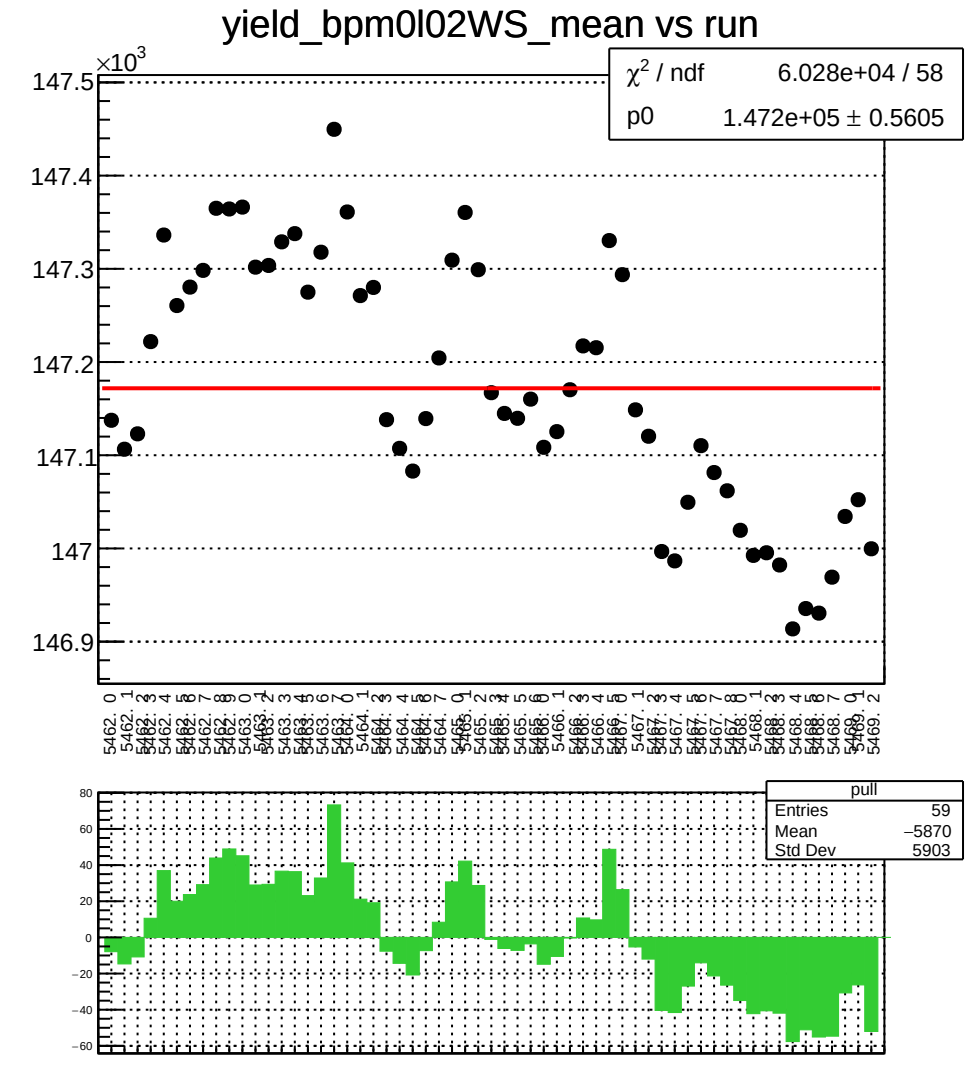

pull1D
Entries 59
Mean −2.452
Std Dev 4.281
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

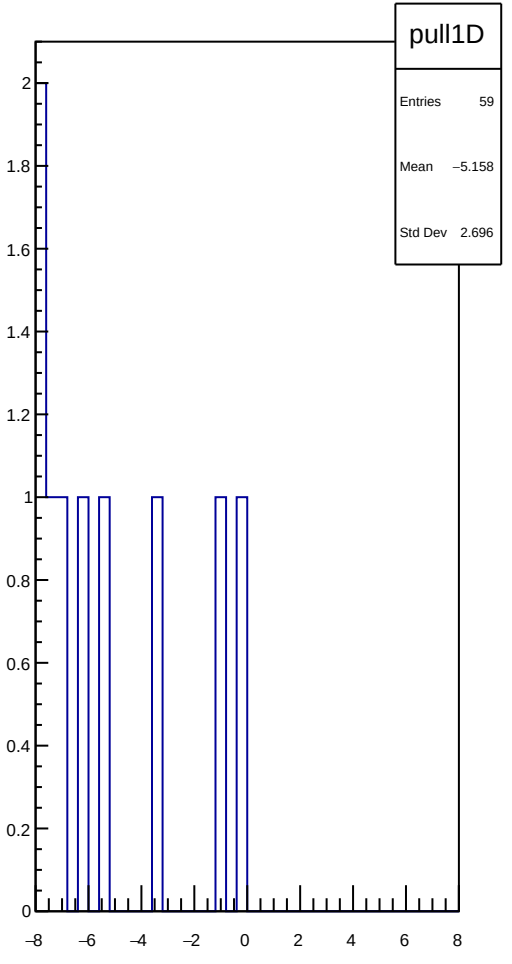

yield_bpm0i01aWS_rms vs run
χ² / ndf 2693 / 58
p0 380 ± 0.3575
550
500
450
400
350

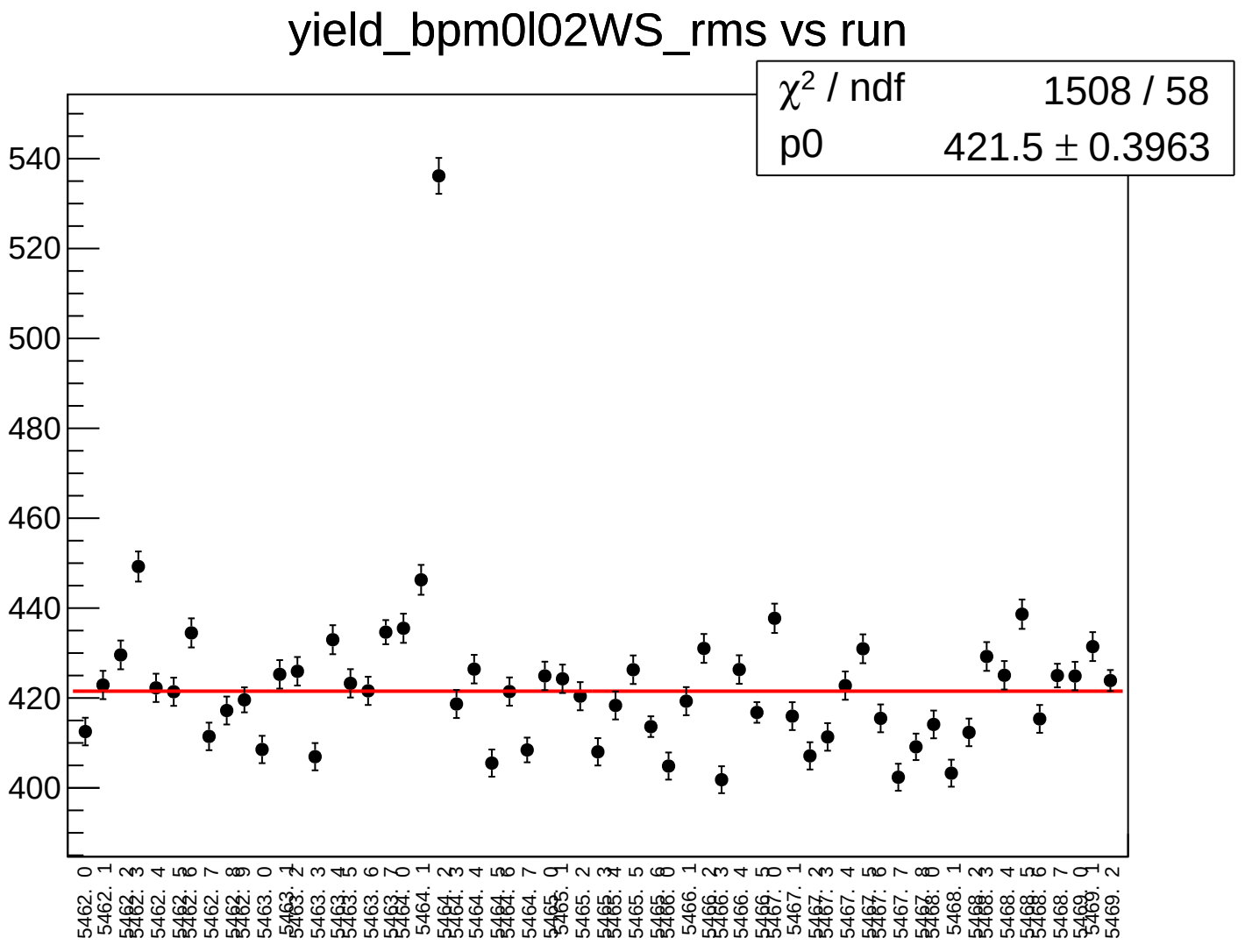

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 1.373e+05 / 58
p0 1.263e+05 ± 0.4088
126.5
126.4
126.3
126.2
126.1
126
pull
Entries 59
Mean −1029
Std Dev 1058
80
60
40
20
0
−20
−40
−60
−80

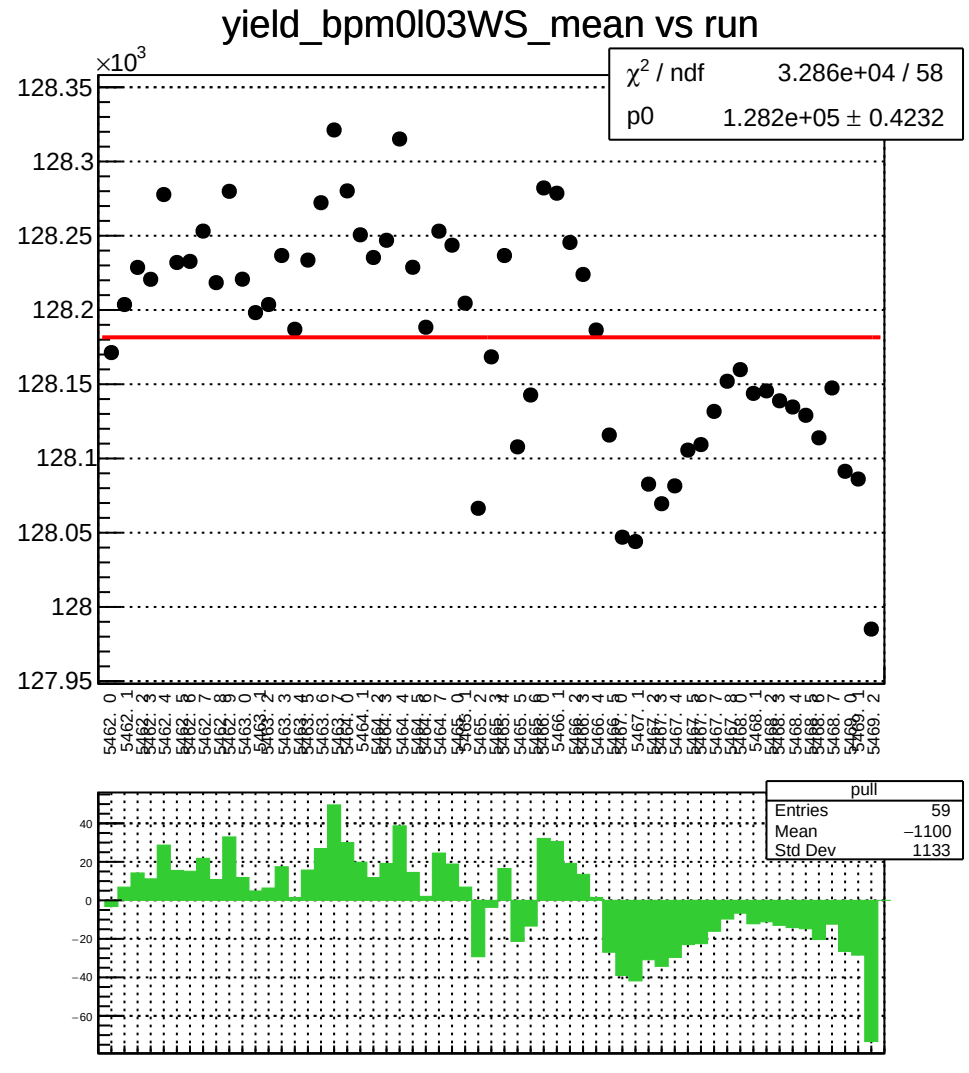

pull1D
Entries 59
Mean 2.931
Std Dev 3.842
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

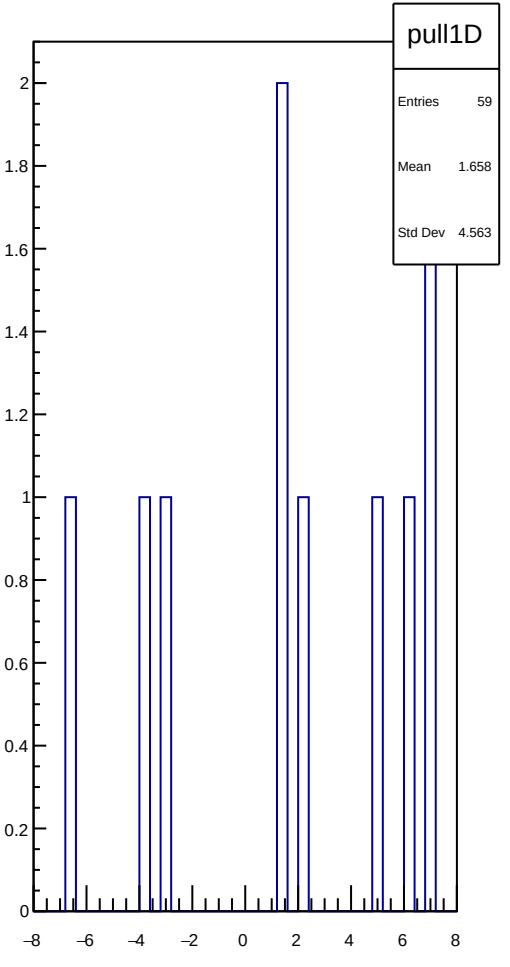

yield_bpm0l01WS_rms vs run
χ² / ndf 2430 / 58
p0 307.3 ± 0.289
420
400
380
360
340
320
300
280

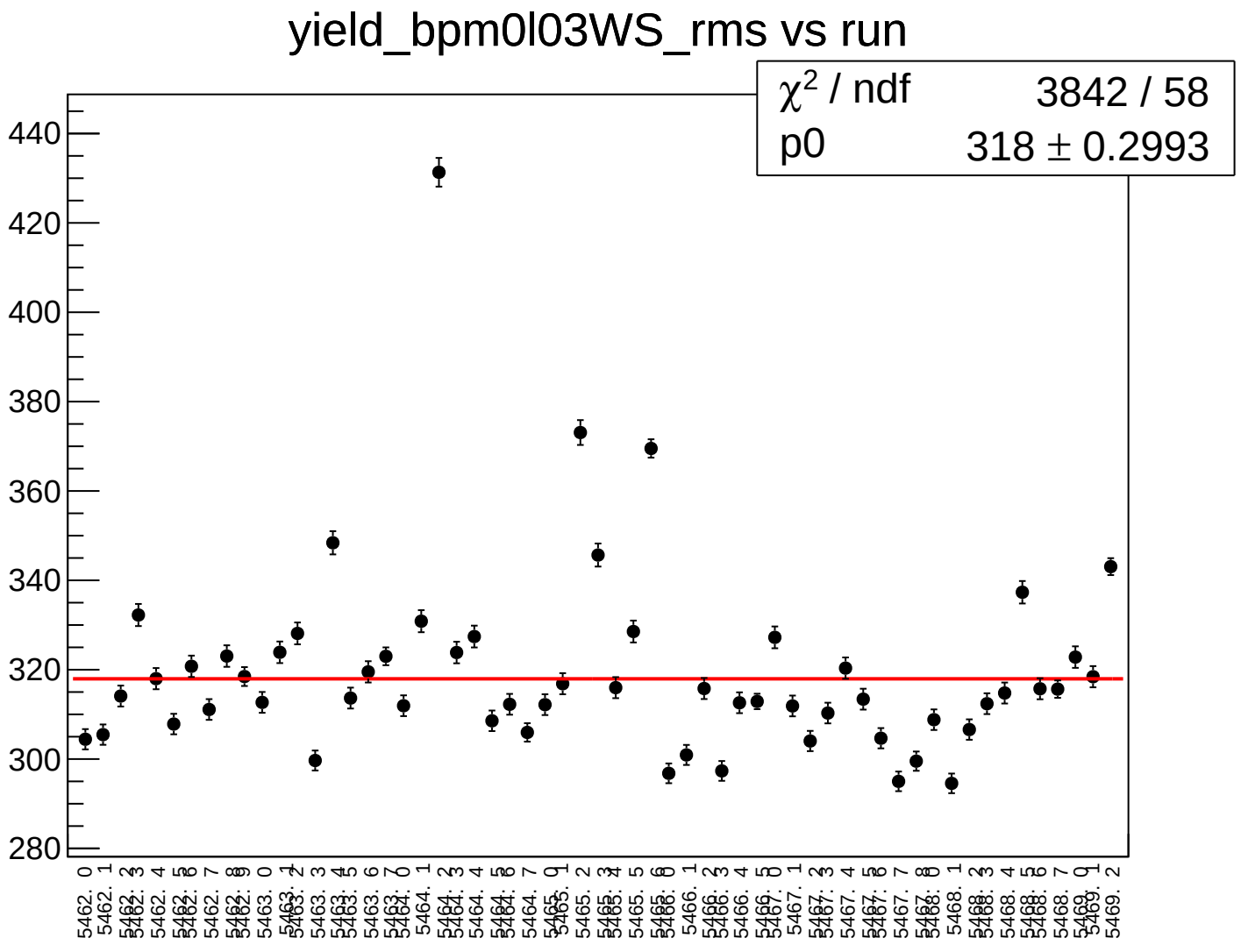

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 6.028e+04 / 58
p0 1.472e+05 ± 0.5605
147.5
147.4
147.3
147.2
147.1
147
146.9
pull
Entries 59
Mean −5870
Std Dev 5903
80
60
40
20
0
−20
−40
−60

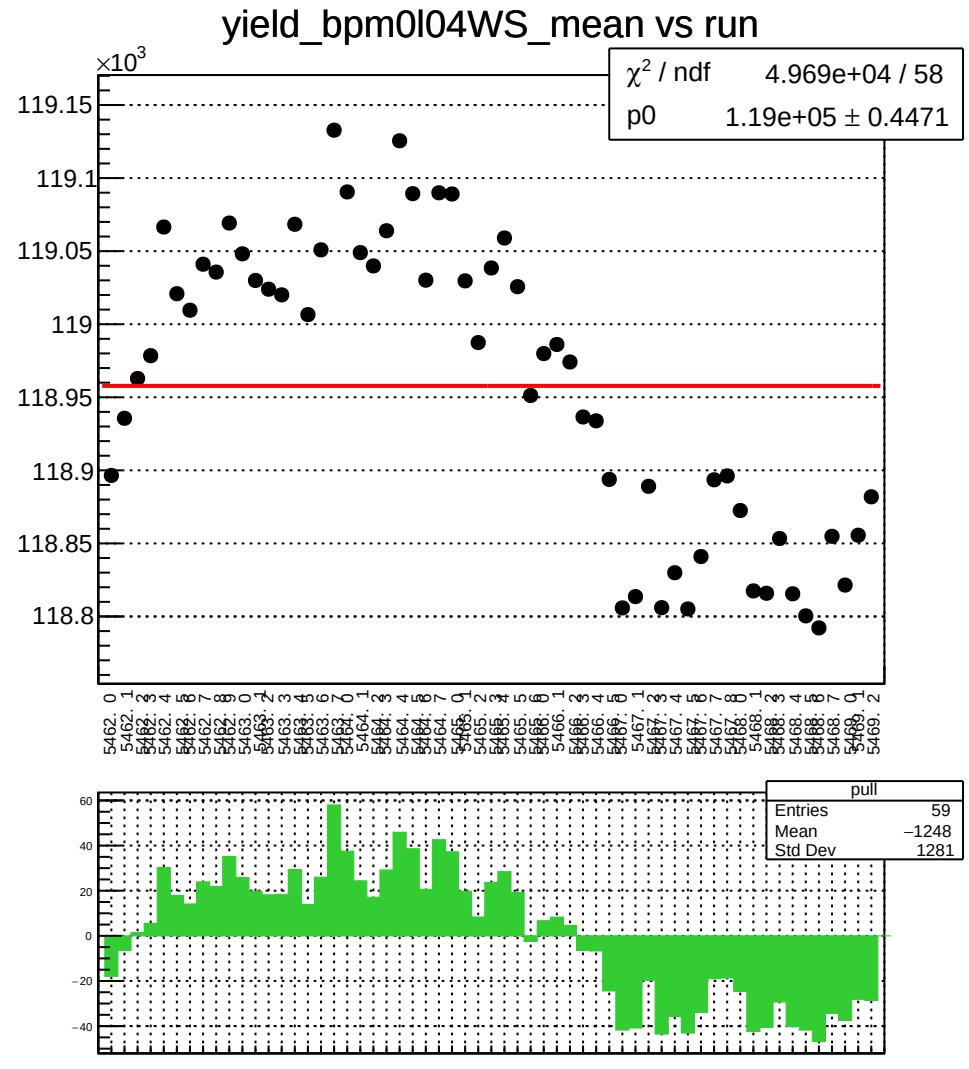

pull1D
Entries 59
Mean −5.158
Std Dev 2.696
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

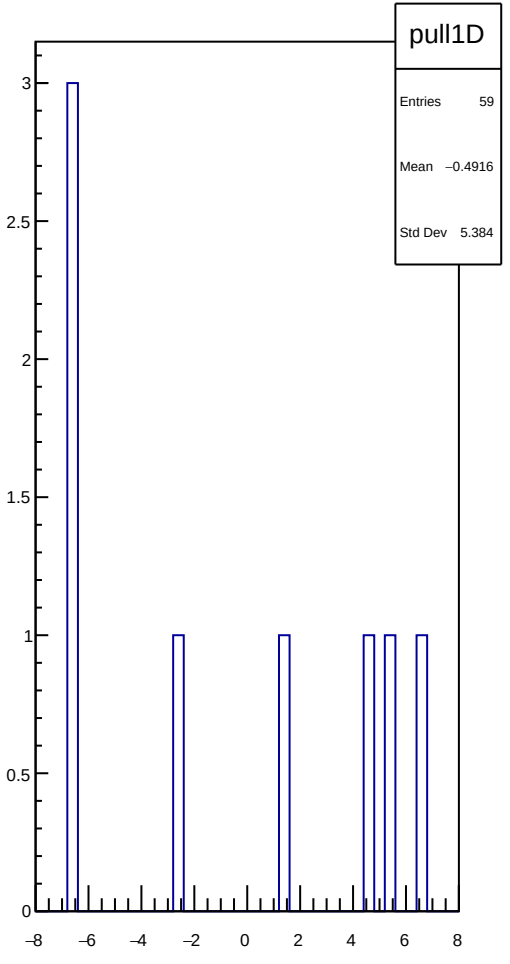

yield_bpm0l02WS_rms vs run
χ² / ndf 1508 / 58
p0 421.5 ± 0.3963
540
520
500
480
460
440
420
400

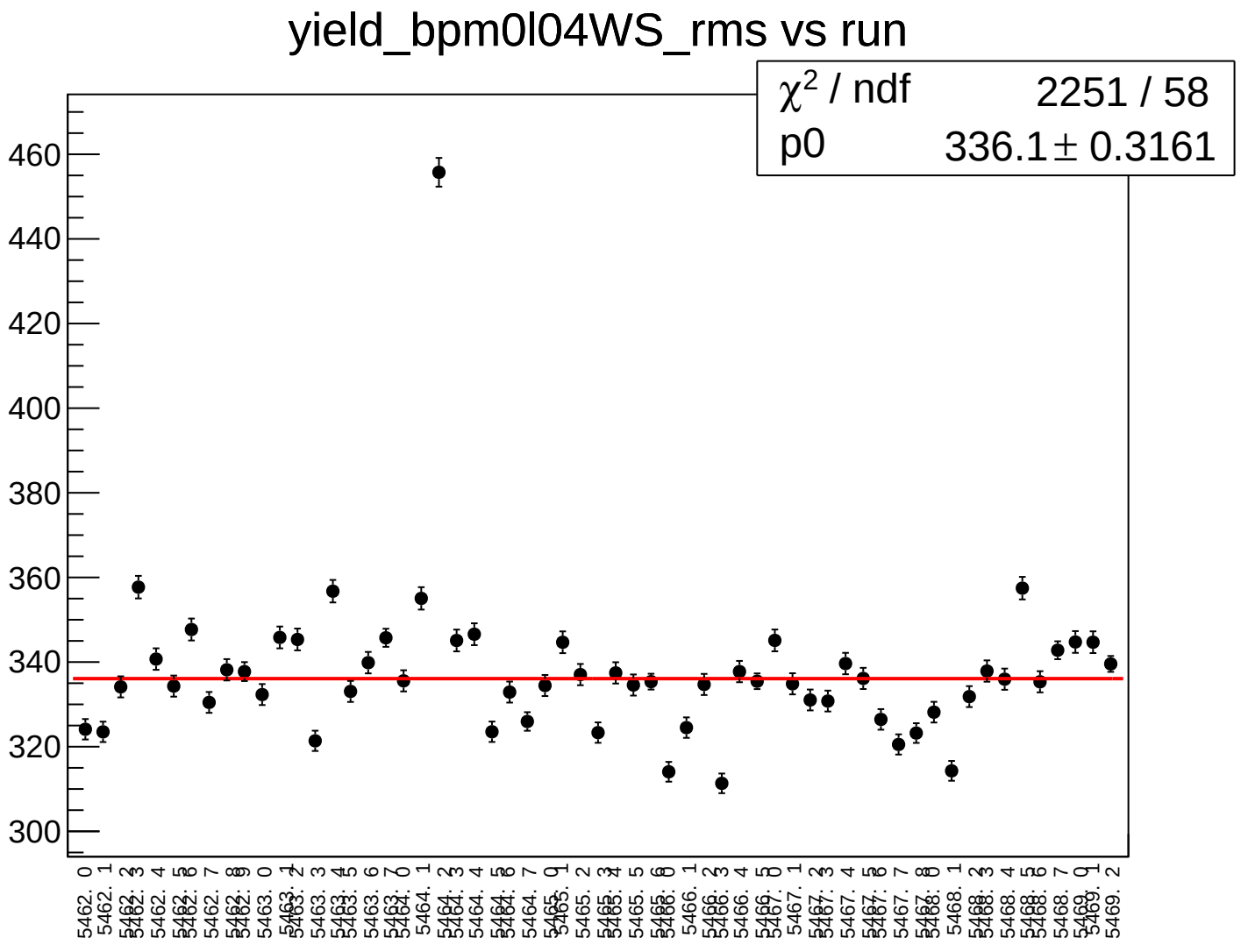

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.286e+04 / 58
p0 1.282e+05 ± 0.4232
128.35
128.3
128.25
128.2
128.15
128.1
128.05
128
127.95
pull
Entries 59
Mean −1100
Std Dev 1133
40
20
0
−20
−40
−60

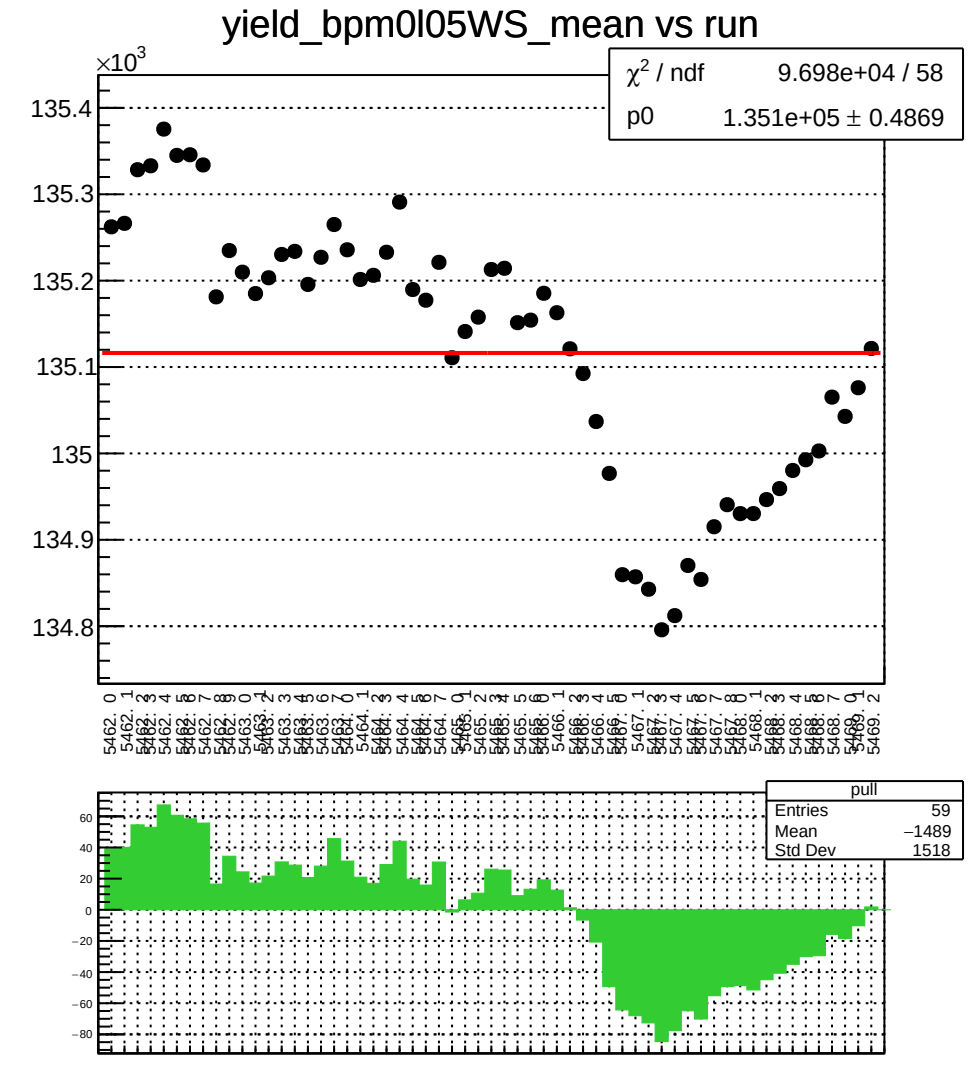

pull1D
Entries 59
Mean 1.658
Std Dev 4.563
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

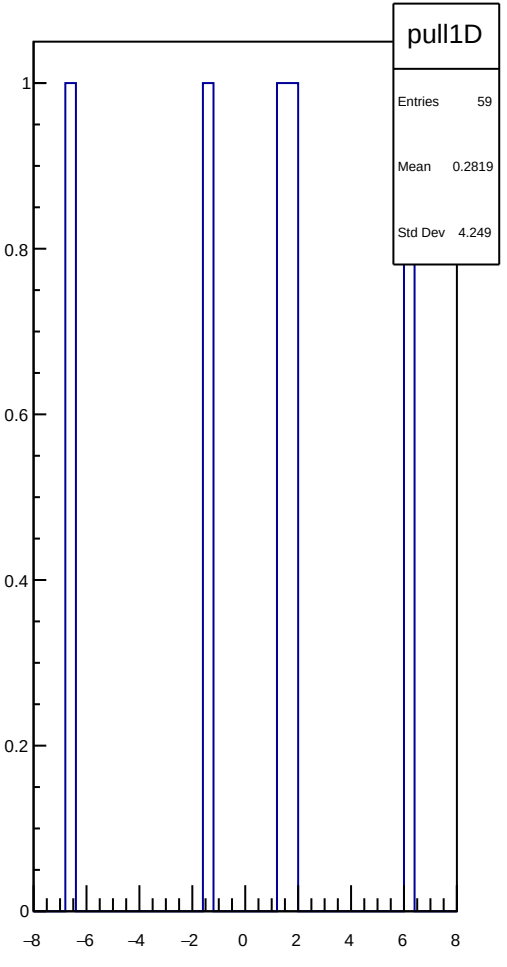

yield_bpm0l03WS_rms vs run
χ^2 / ndf 3842 / 58
p0 318 ± 0.2993
440
420
400
380
360
340
320
300
280
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

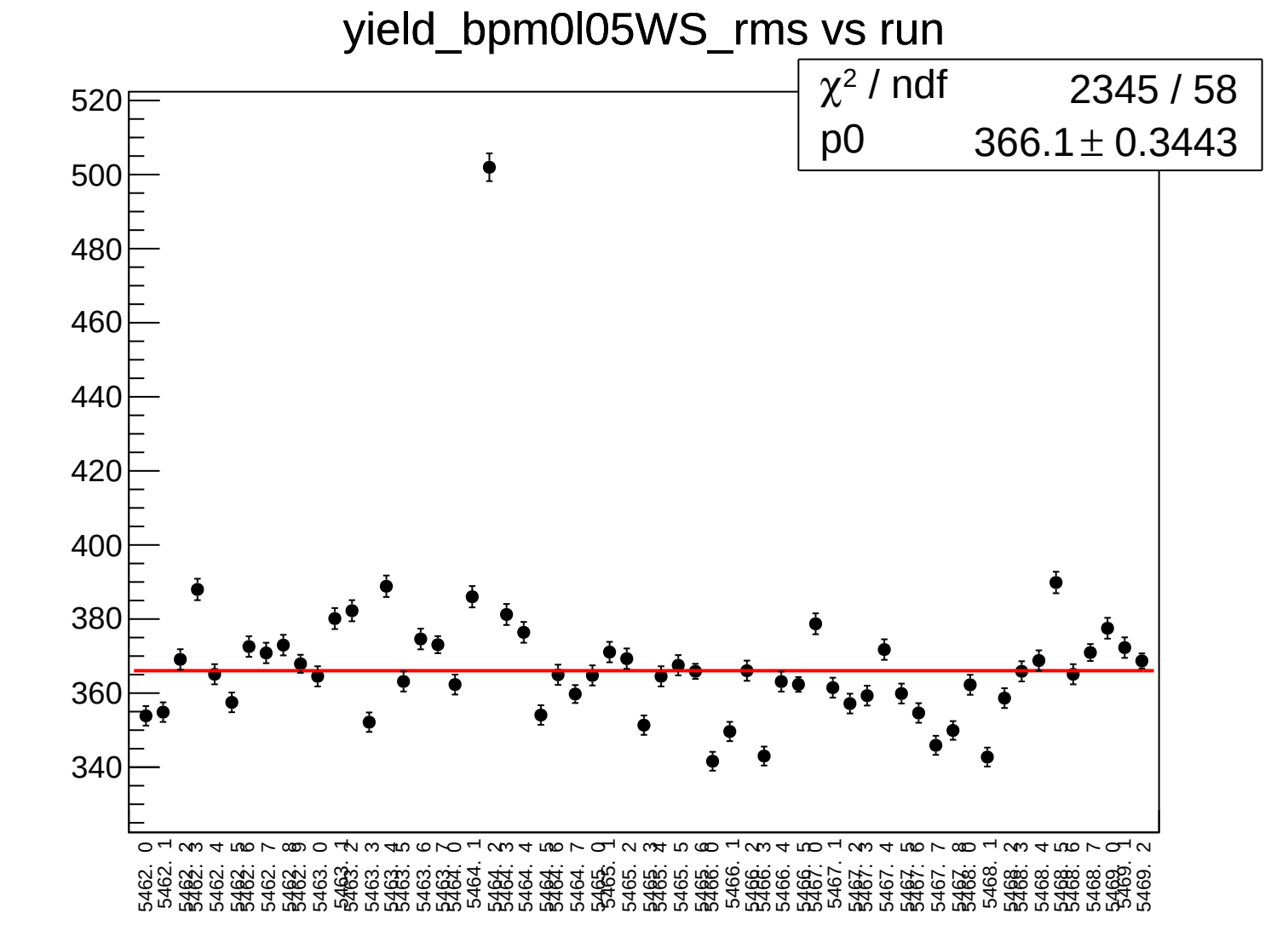

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 4.969e+04 / 58
p0 1.19e+05 ± 0.4471
119.15
119.1
119.05
119
118.95
118.9
118.85
118.8
pull
Entries 59
Mean −1248
Std Dev 1281
60
40
20
0
−20
−40

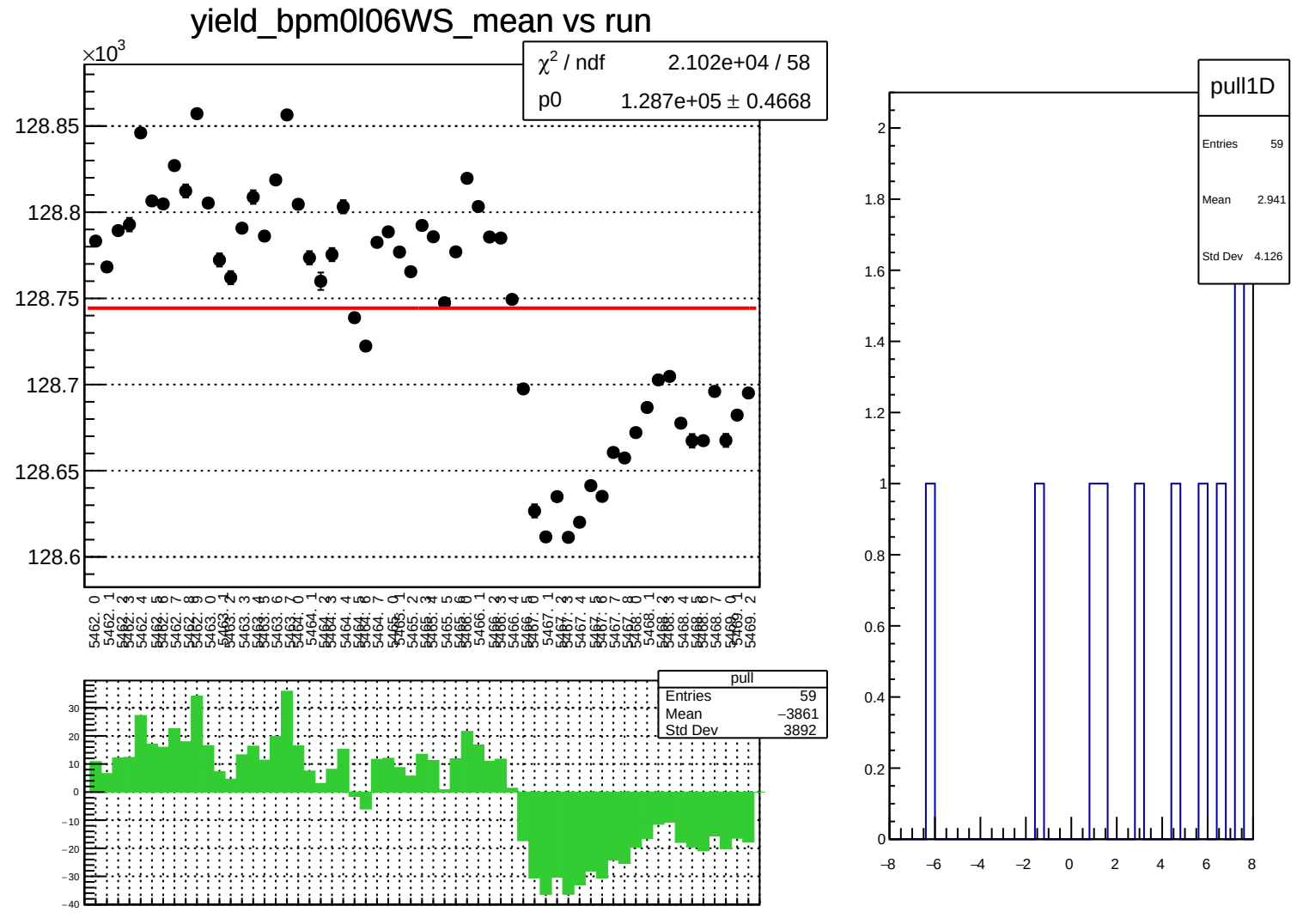

pull1D
Entries 59
Mean −0.4916
Std Dev 5.384
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

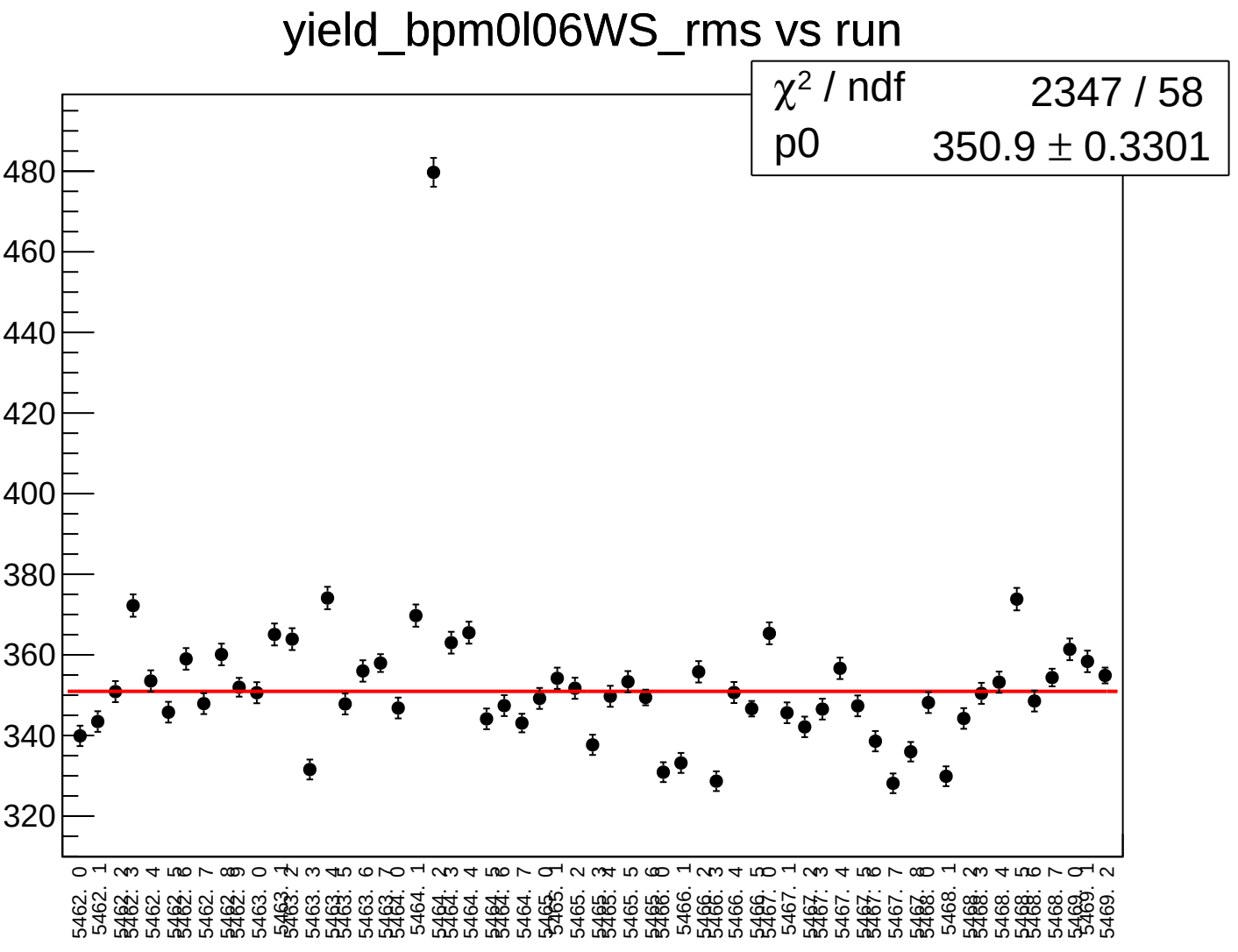

yield_bpm0l04WS_rms vs run
χ² / ndf 2251 / 58
p0 336.1 ± 0.3161
460
440
420
400
380
360
340
320
300

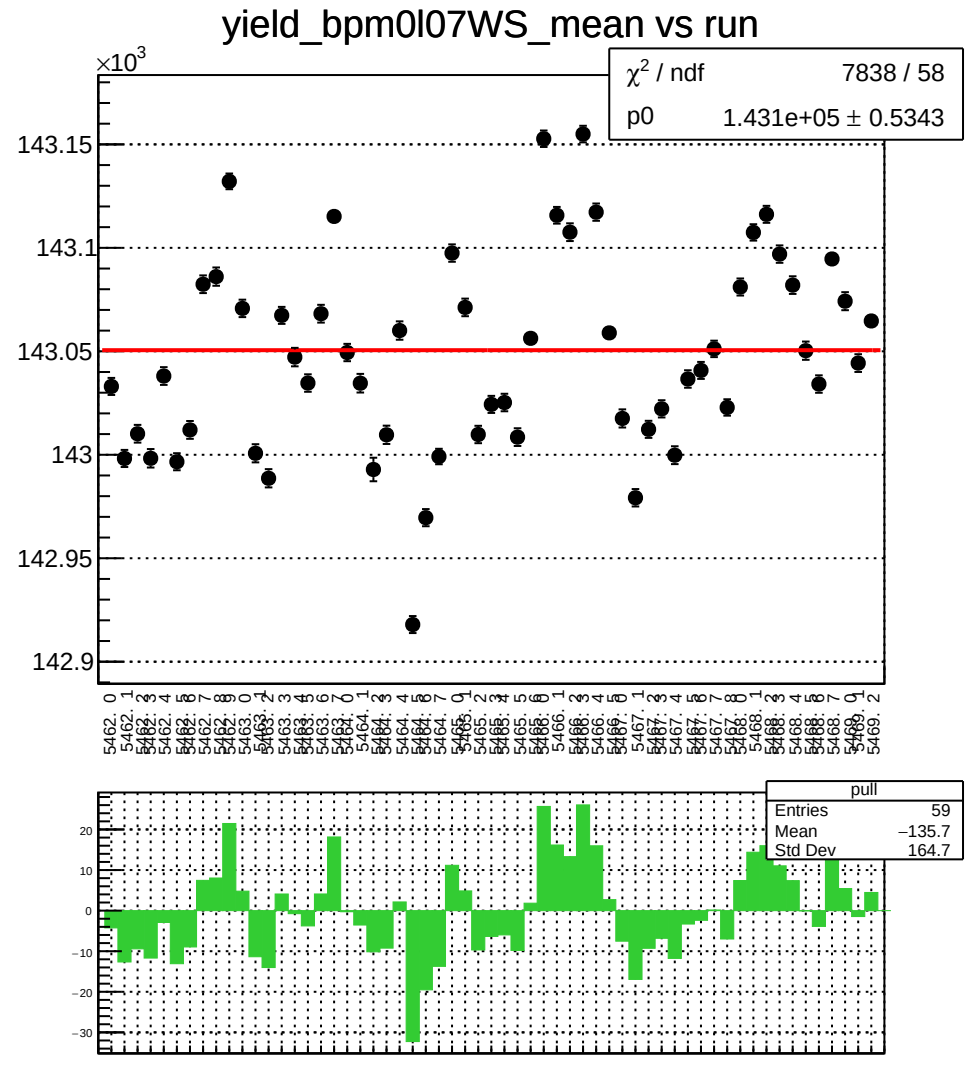

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 9.698e+04 / 58
p0 1.351e+05 ± 0.4869
135.4
135.3
135.2
135.1
135
134.9
134.8
pull
Entries 59
Mean −1489
Std Dev 1518
60
40
20
0
−20
−40
−60
−80

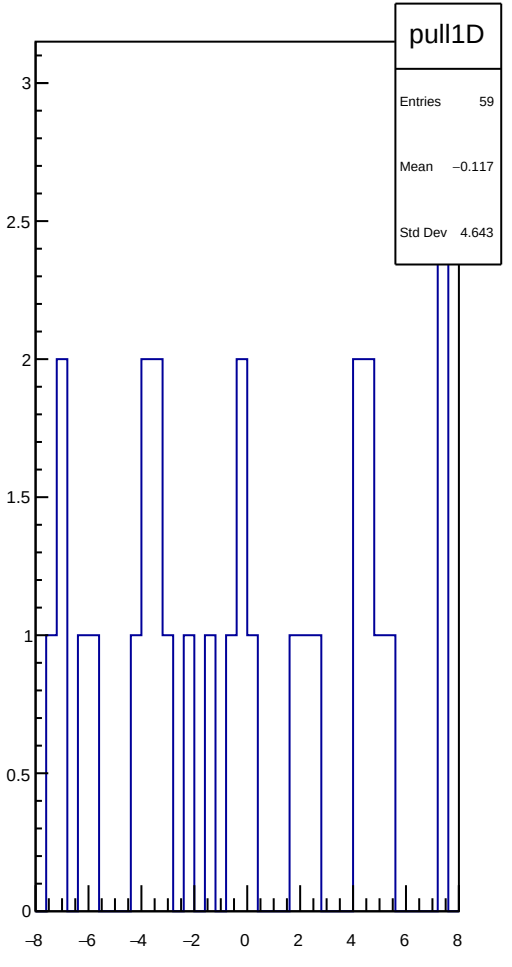

pull1D
Entries 59
Mean 0.2819
Std Dev 4.249
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

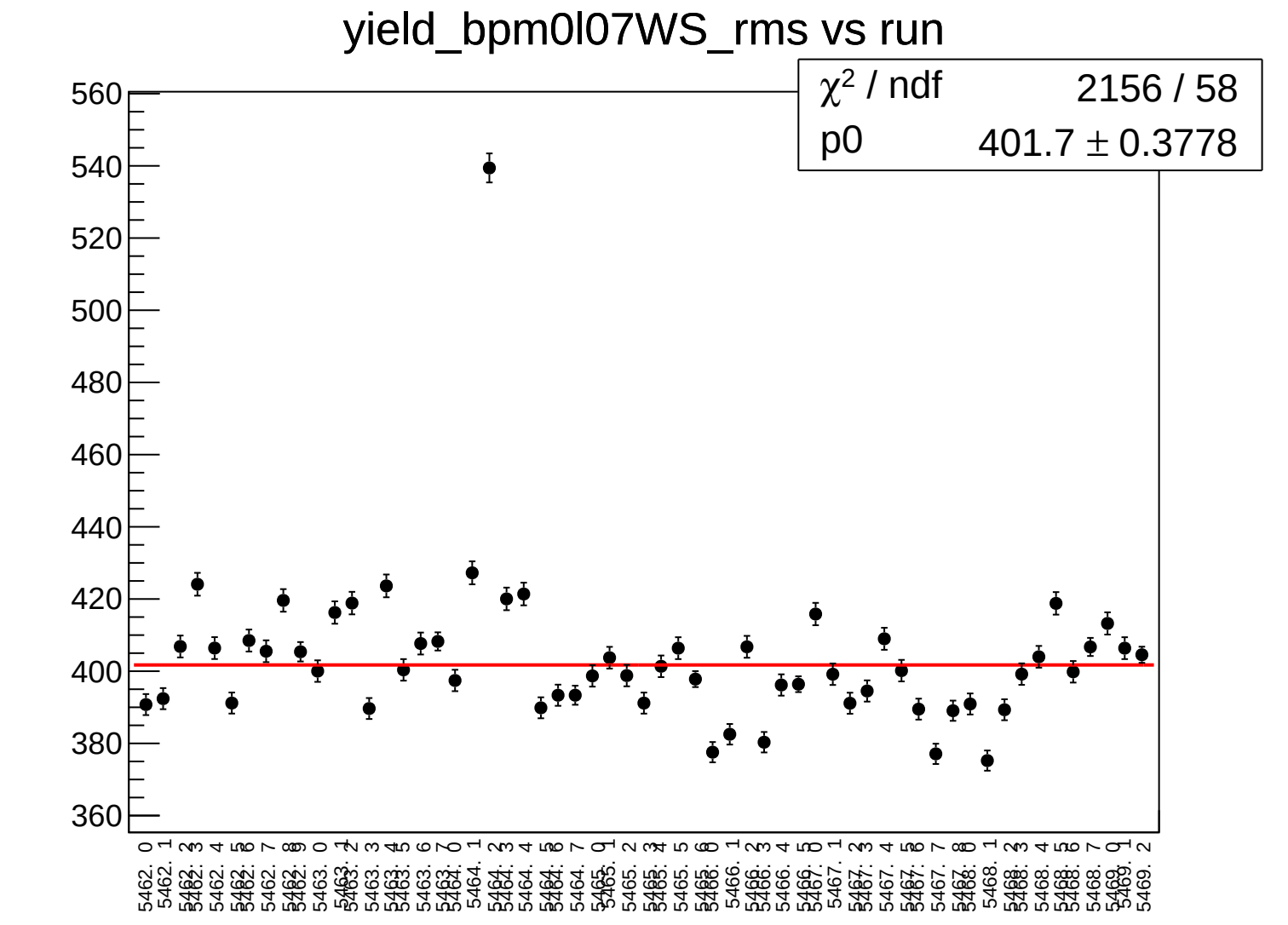

yield_bpm0l05WS_rms vs run
χ² / ndf 2345 / 58
p0 366.1 ± 0.3443
520
500
480
460
440
420
400
380
360
340

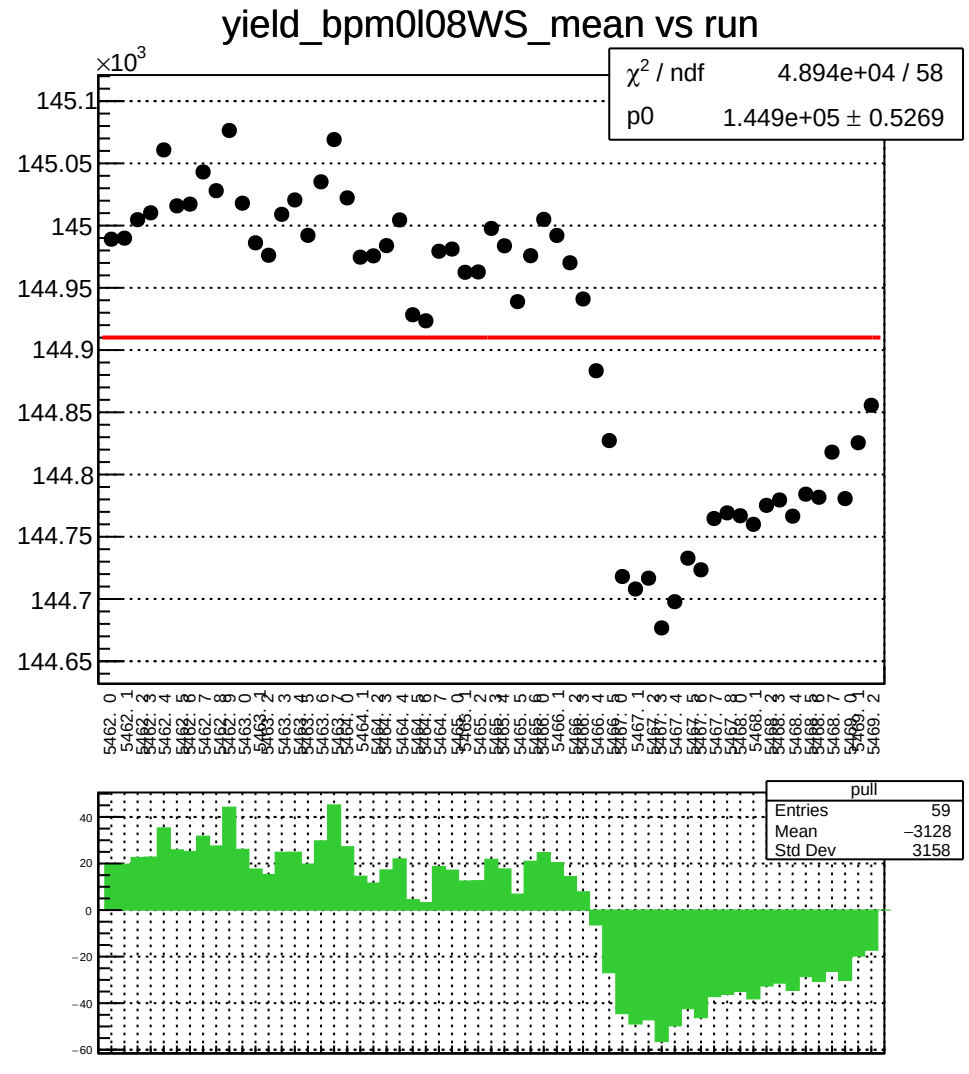

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 2.102e+04 / 58
p0 1.287e+05 ± 0.4668
128.85
128.8
128.75
128.7
128.65
128.6
pull
Entries 59
Mean −3861
Std Dev 3892
30
20
10
0
−10
−20
−30
−40
pull1D
Entries 59
Mean 2.941
Std Dev 4.126
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

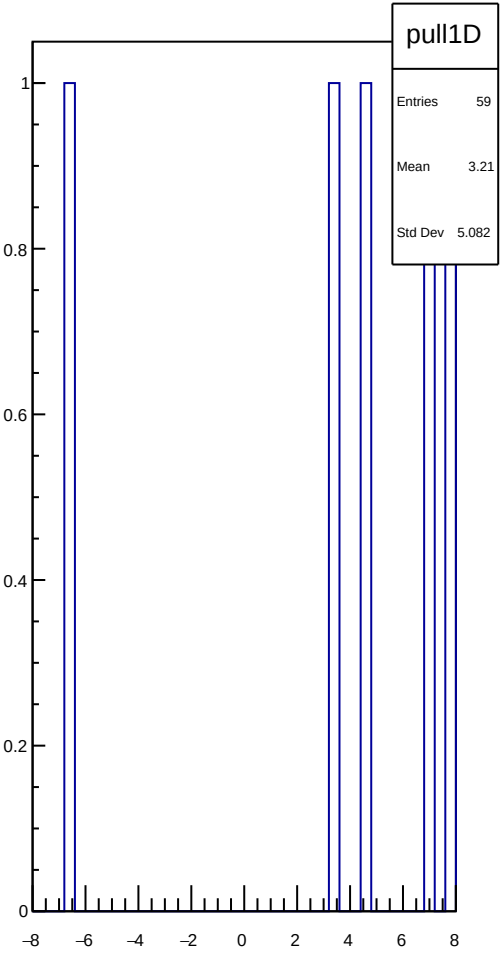

yield_bpm0l06WS_rms vs run
χ² / ndf 2347 / 58
p0 350.9 ± 0.3301
480
460
440
420
400
380
360
340
320

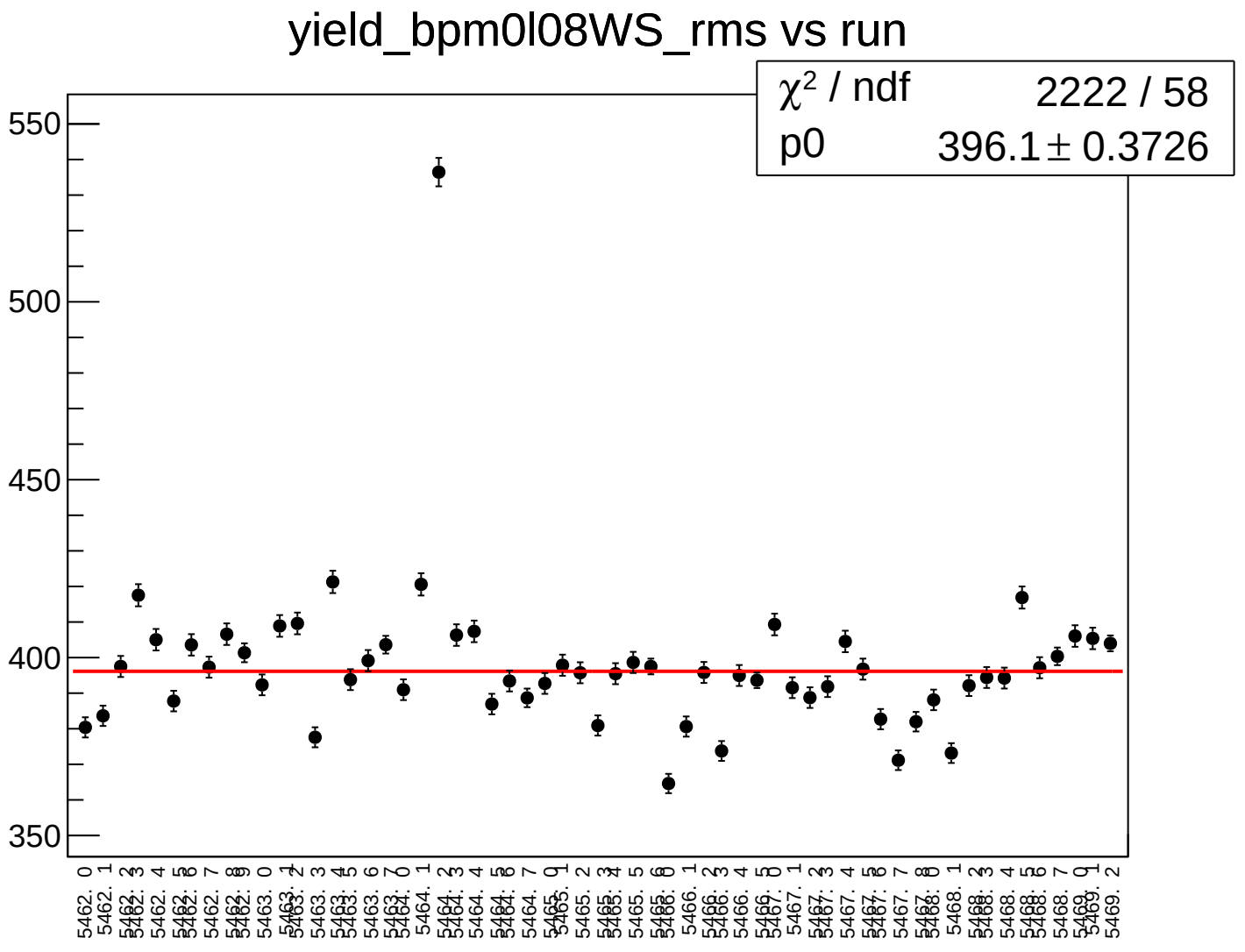

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 7838 / 58
p0 1.431e+05 ± 0.5343
143.15
143.1
143.05
143
142.95
142.9
pull
Entries 59
Mean −135.7
Std Dev 164.7
20
10
0
−10
−20
−30

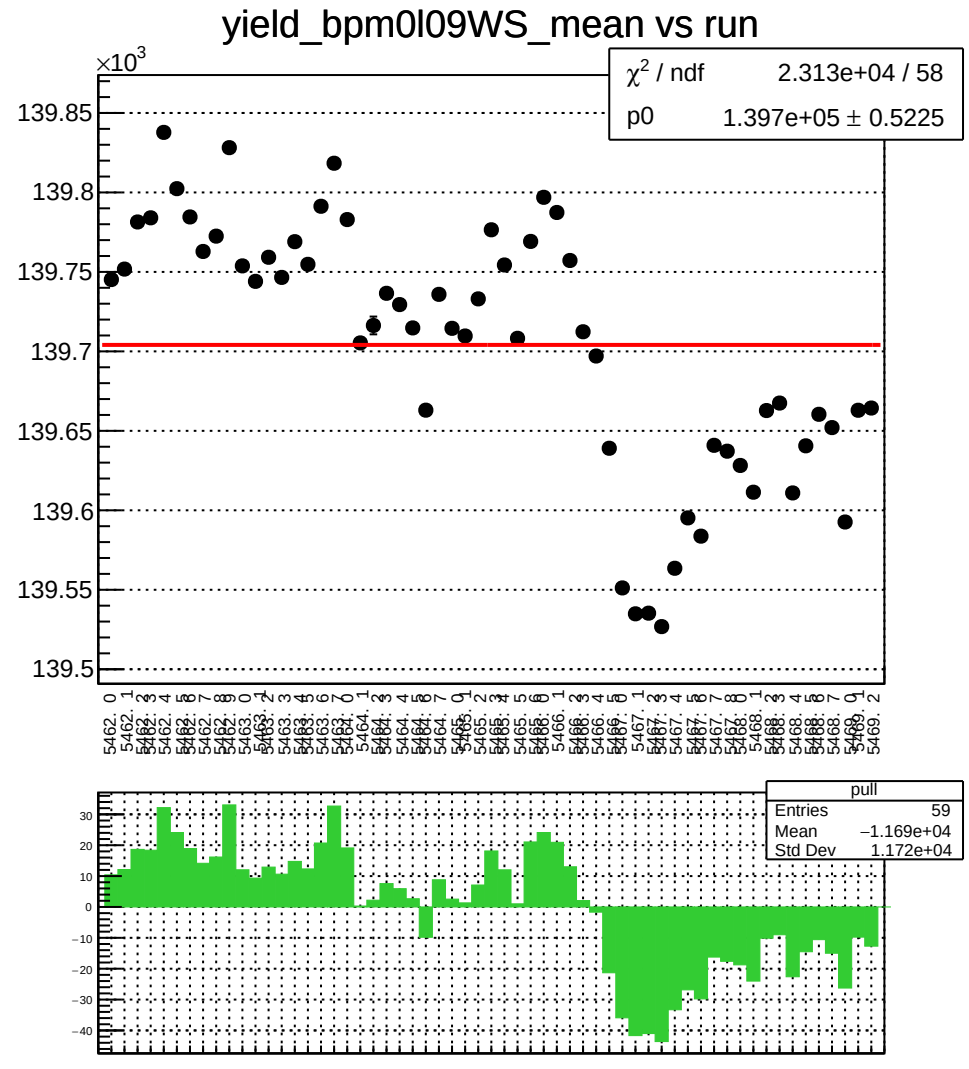

pull1D
Entries 59
Mean −0.117
Std Dev 4.643
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

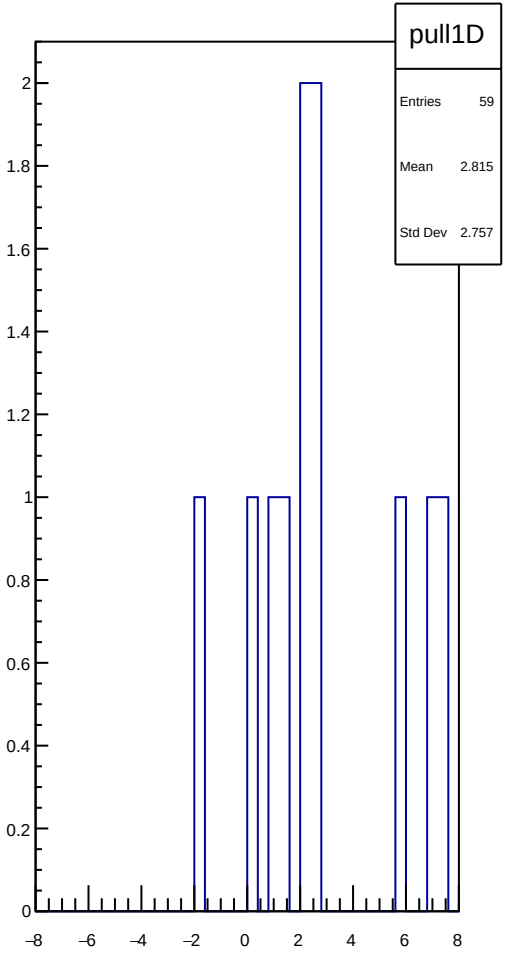

yield_bpm0l07WS_rms vs run
χ² / ndf 2156 / 58
p0 401.7 ± 0.3778
560
540
520
500
480
460
440
420
400
380
360

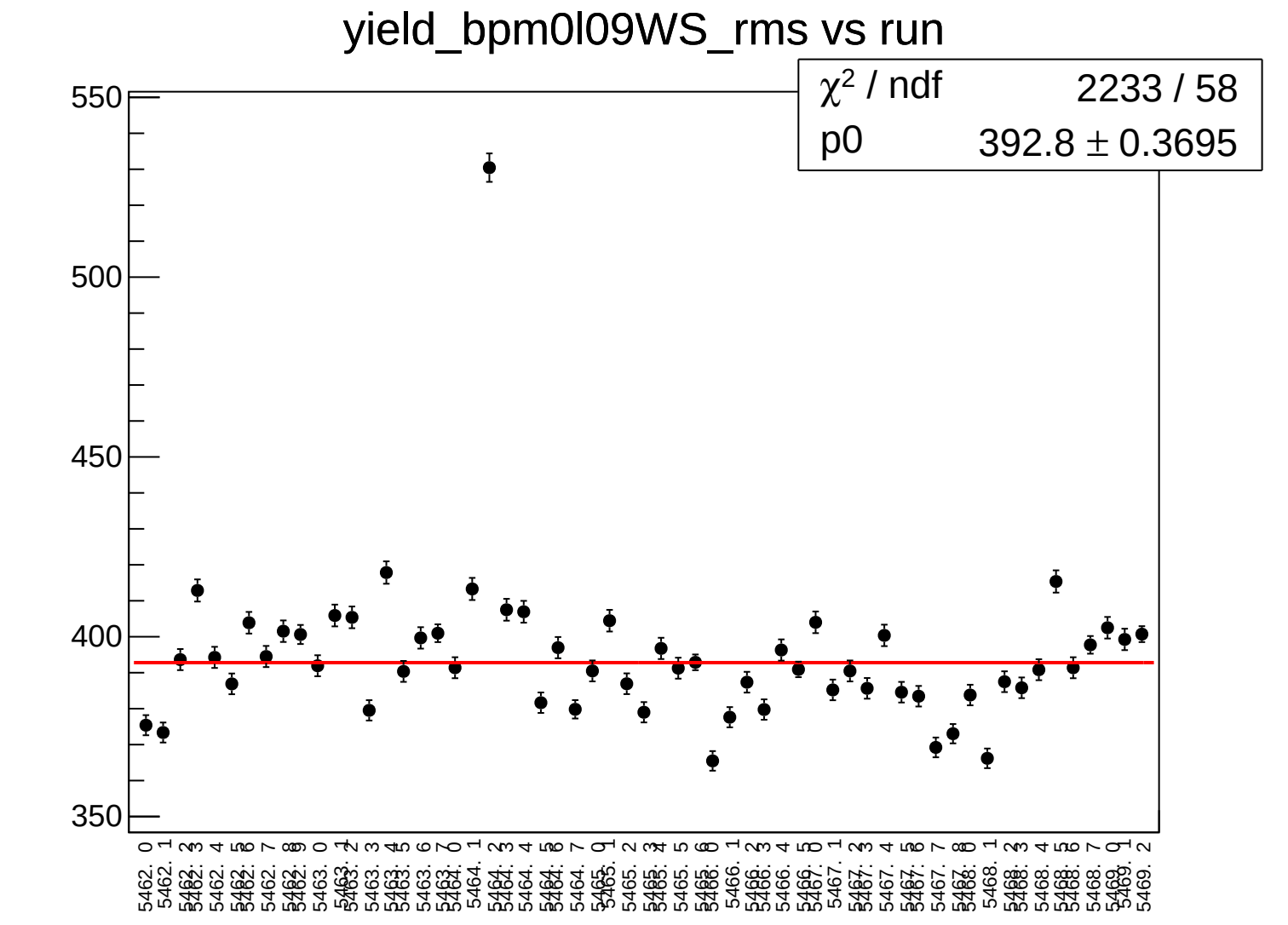

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 4.894e+04 / 58
p0 1.449e+05 ± 0.5269
145.1
145.05
145
144.95
144.9
144.85
144.8
144.75
144.7
144.65
pull
Entries 59
Mean −3128
Std Dev 3158
40
20
0
−20
−40
−60

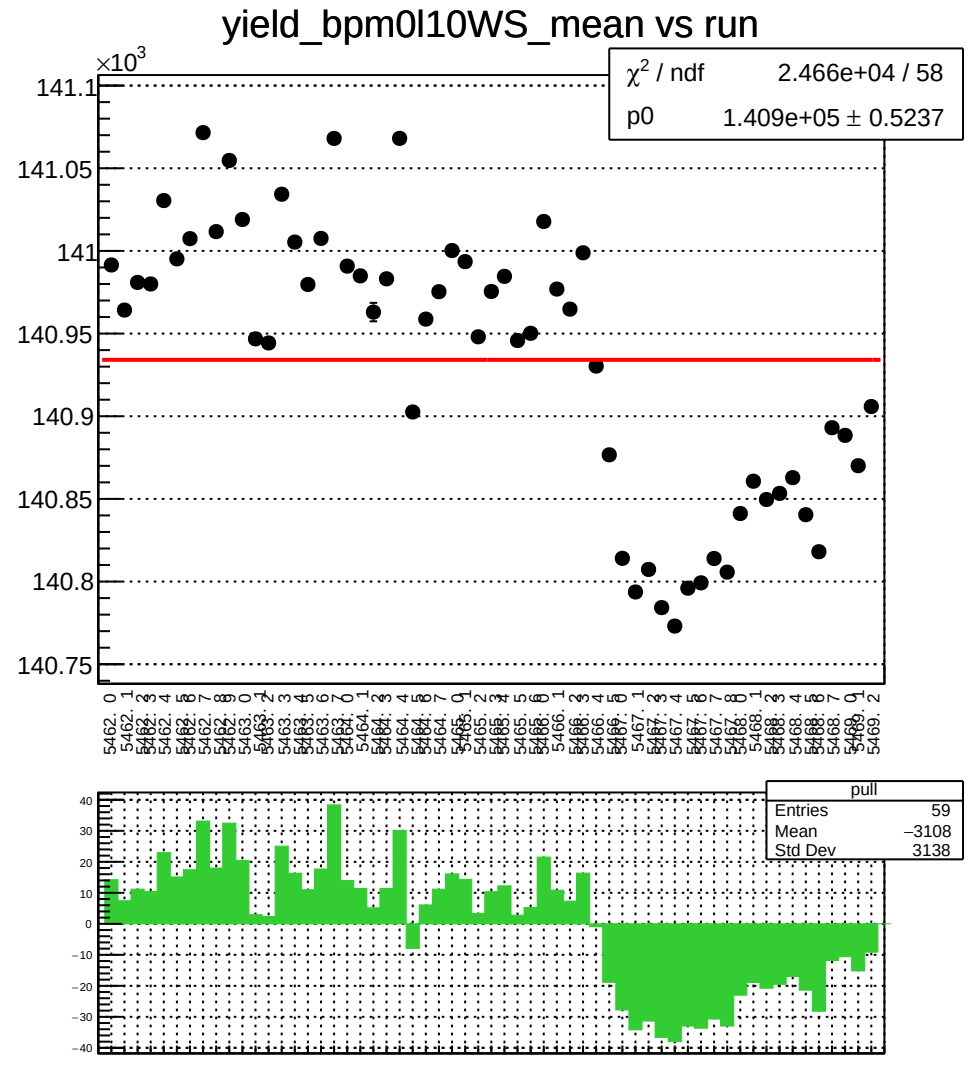

pull1D
Entries 59
Mean 3.21
Std Dev 5.082
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

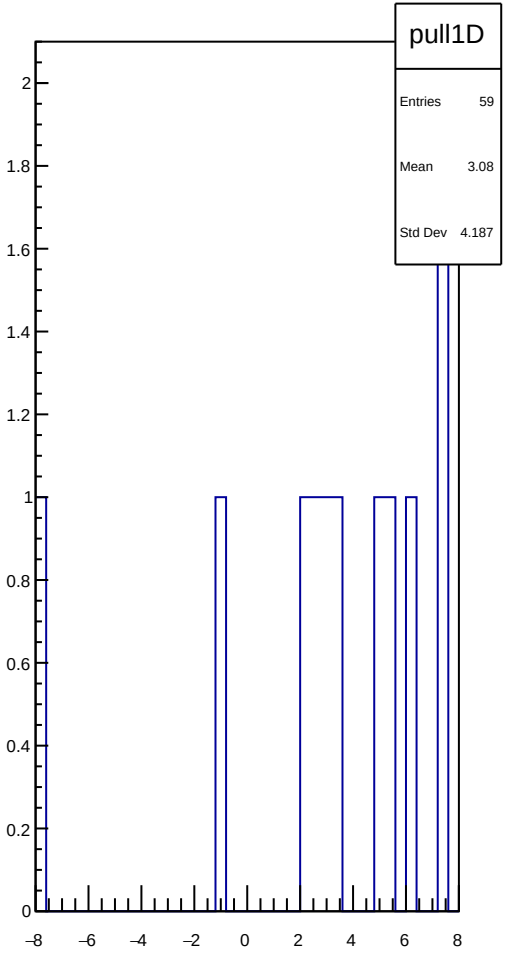

yield_bpm0l08WS_rms vs run
χ² / ndf 2222 / 58
p0 396.1 ± 0.3726
550
500
450
400
350

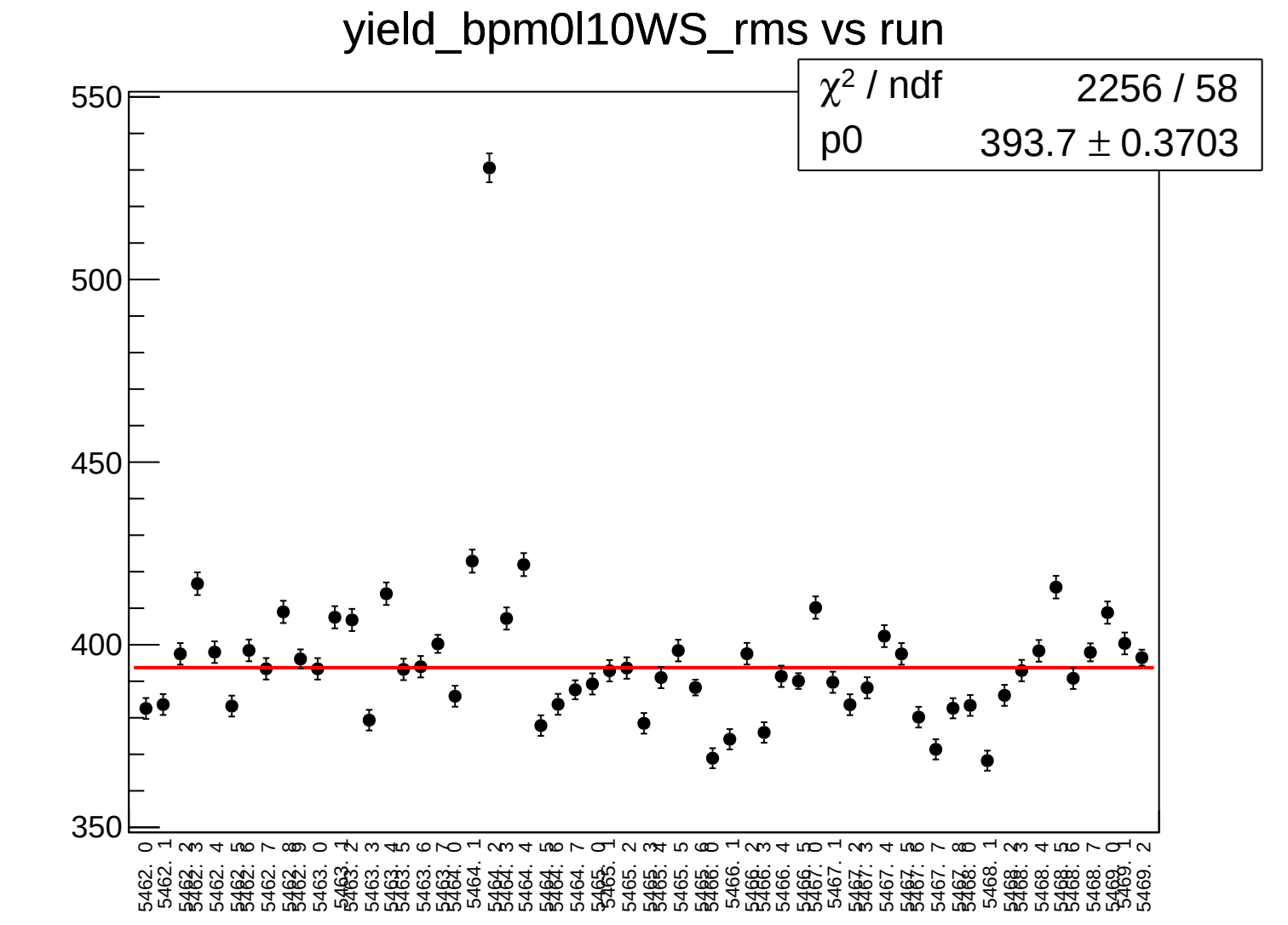

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 2.313e+04 / 58
p0 1.397e+05 ± 0.5225
139.85
139.8
139.75
139.7
139.65
139.6
139.55
139.5
pull
Entries 59
Mean −1.169e+04
Std Dev 1.172e+04
30
20
10
0
−10
−20
−30
−40

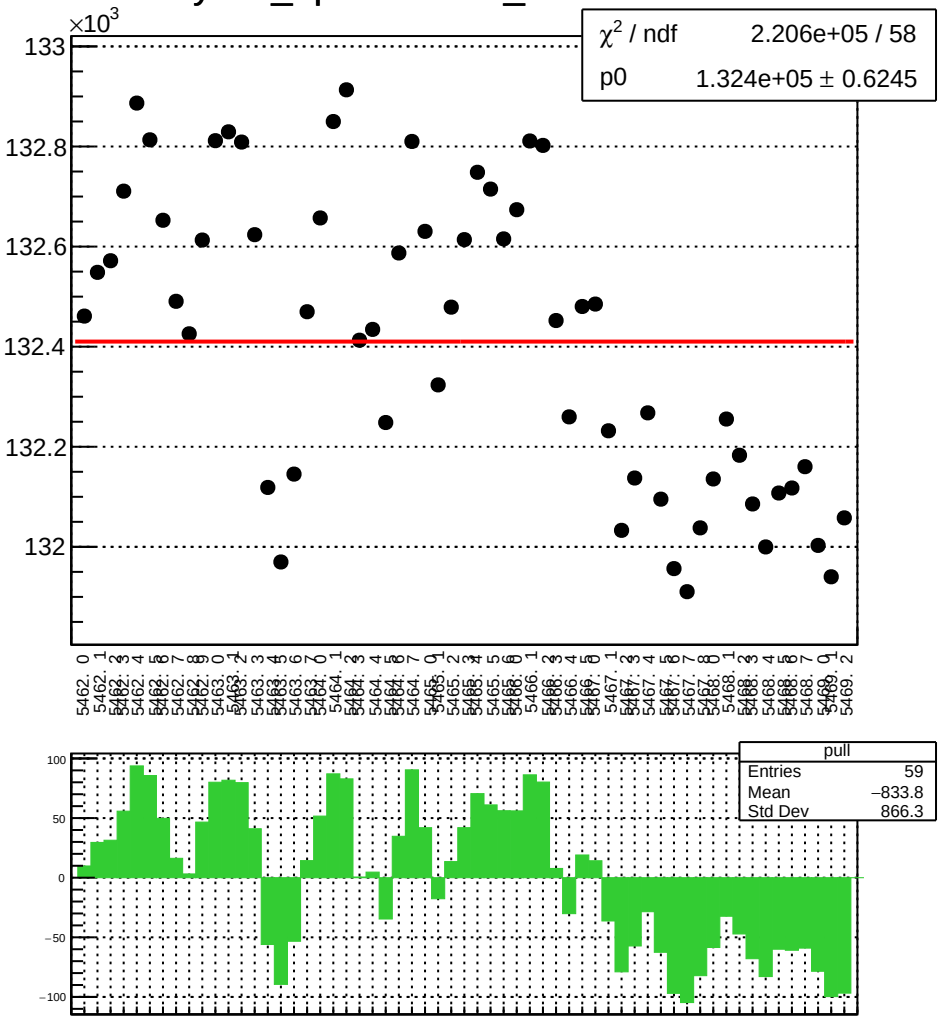

pull1D
Entries 59
Mean 2.815
Std Dev 2.757
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

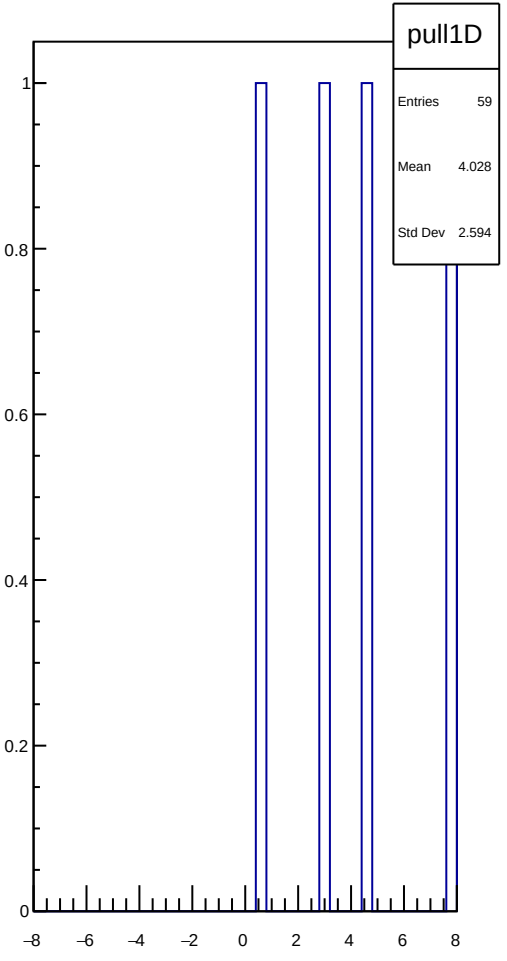

yield_bpm0l09WS_rms vs run
χ² / ndf 2233 / 58
p0 392.8 ± 0.3695
550
500
450
400
350

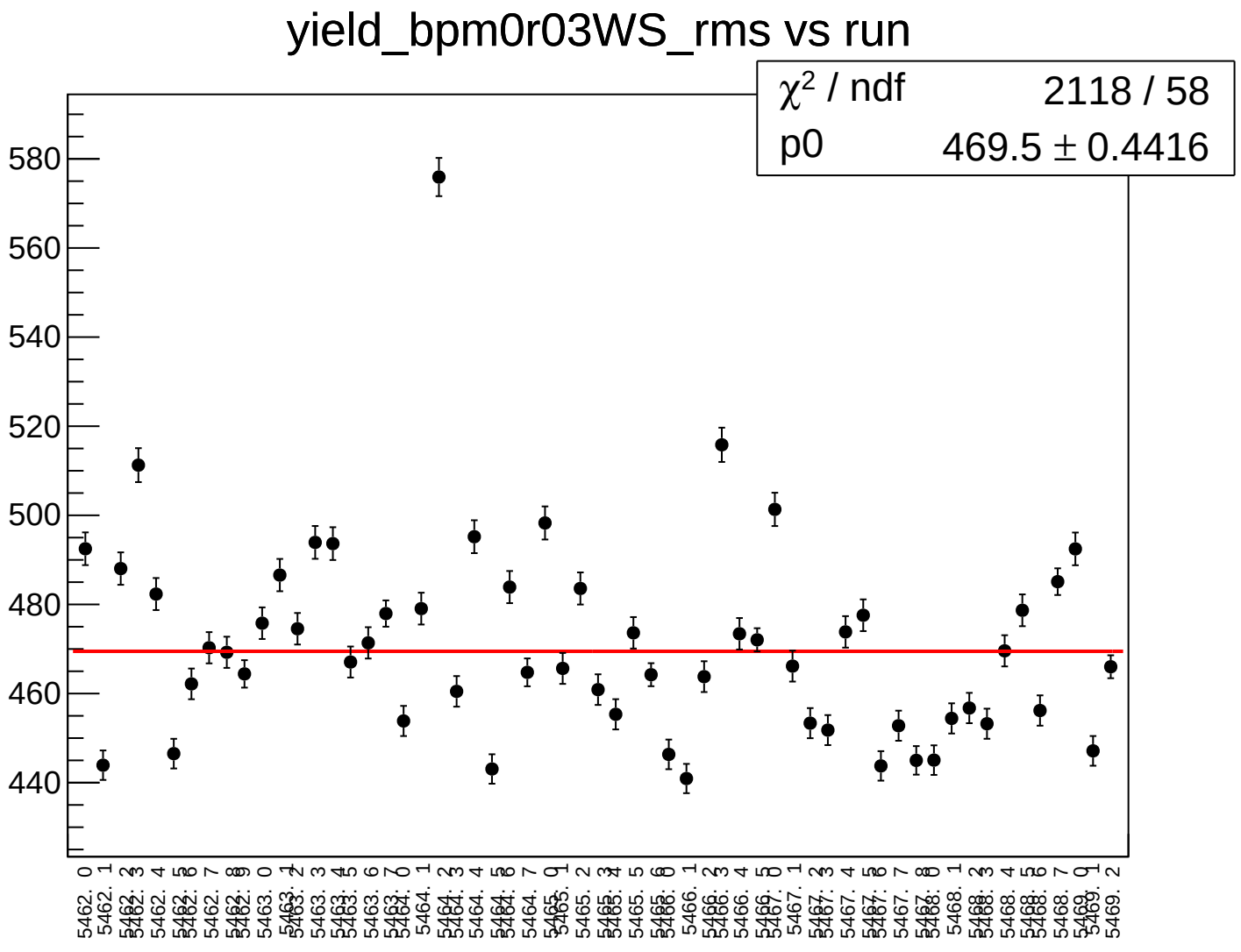

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.466e+04 / 58
p0 1.409e+05 ± 0.5237
141.1
141.05
141
140.95
140.9
140.85
140.8
140.75
pull
Entries 59
Mean −3108
Std Dev 3138
40
30
20
10
0
−10
−20
−30
−40

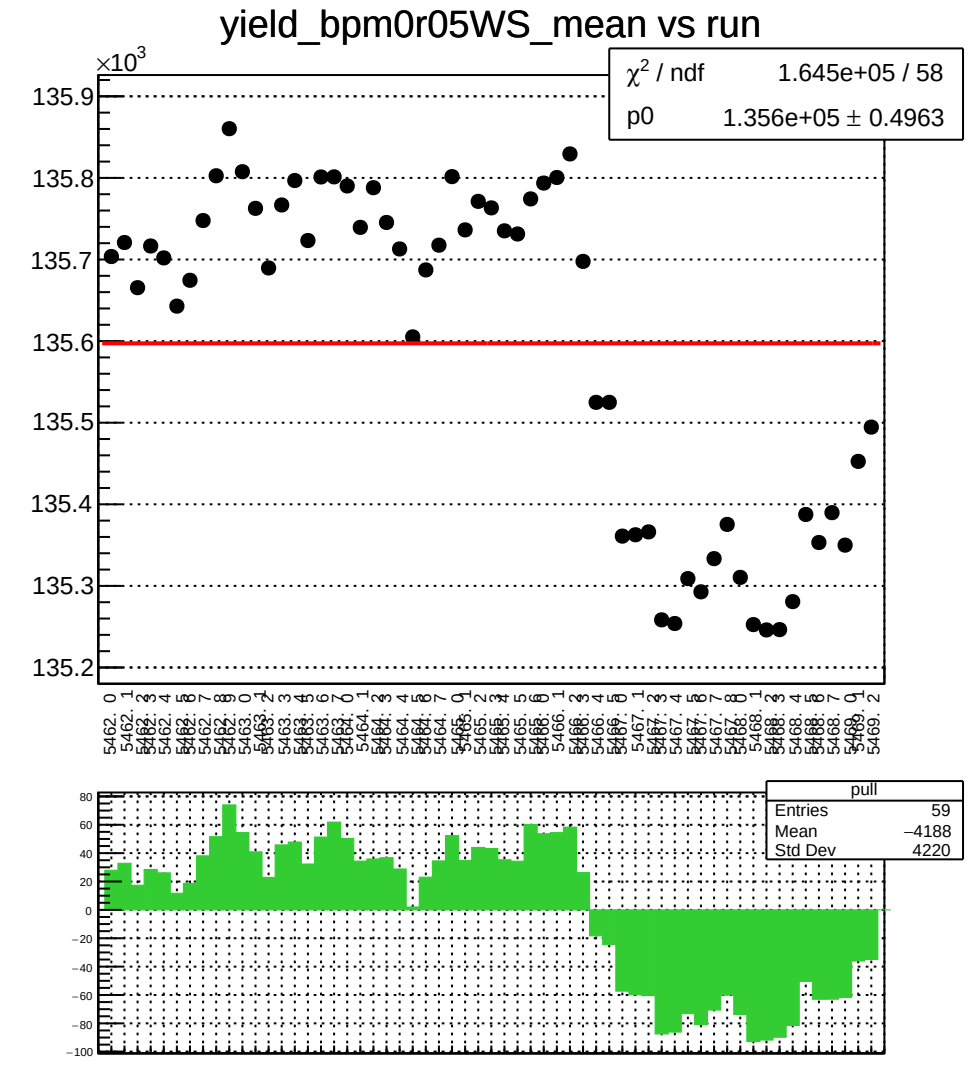

pull1D
Entries 59
Mean 3.08
Std Dev 4.187
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

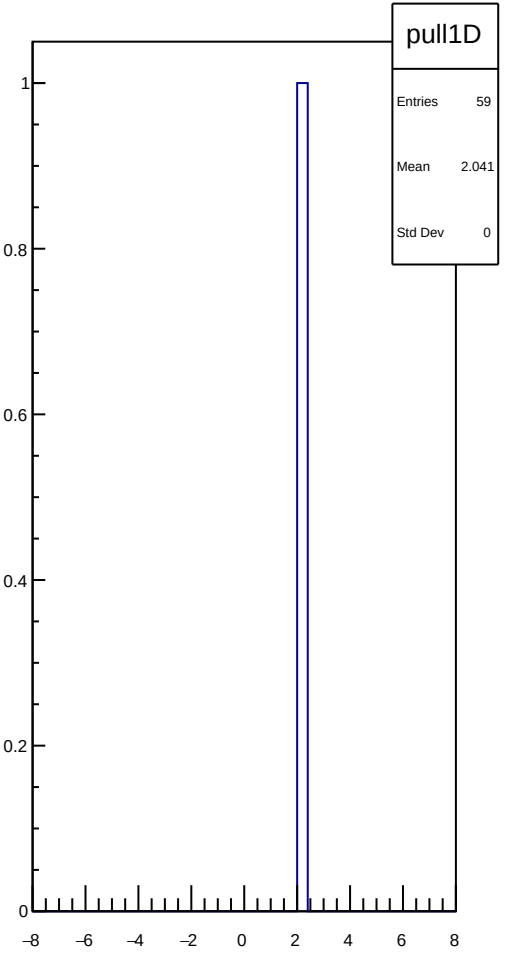

yield_bpm0l10WS_rms vs run
χ² / ndf 2256 / 58
p0 393.7 ± 0.3703
550
500
450
400
350

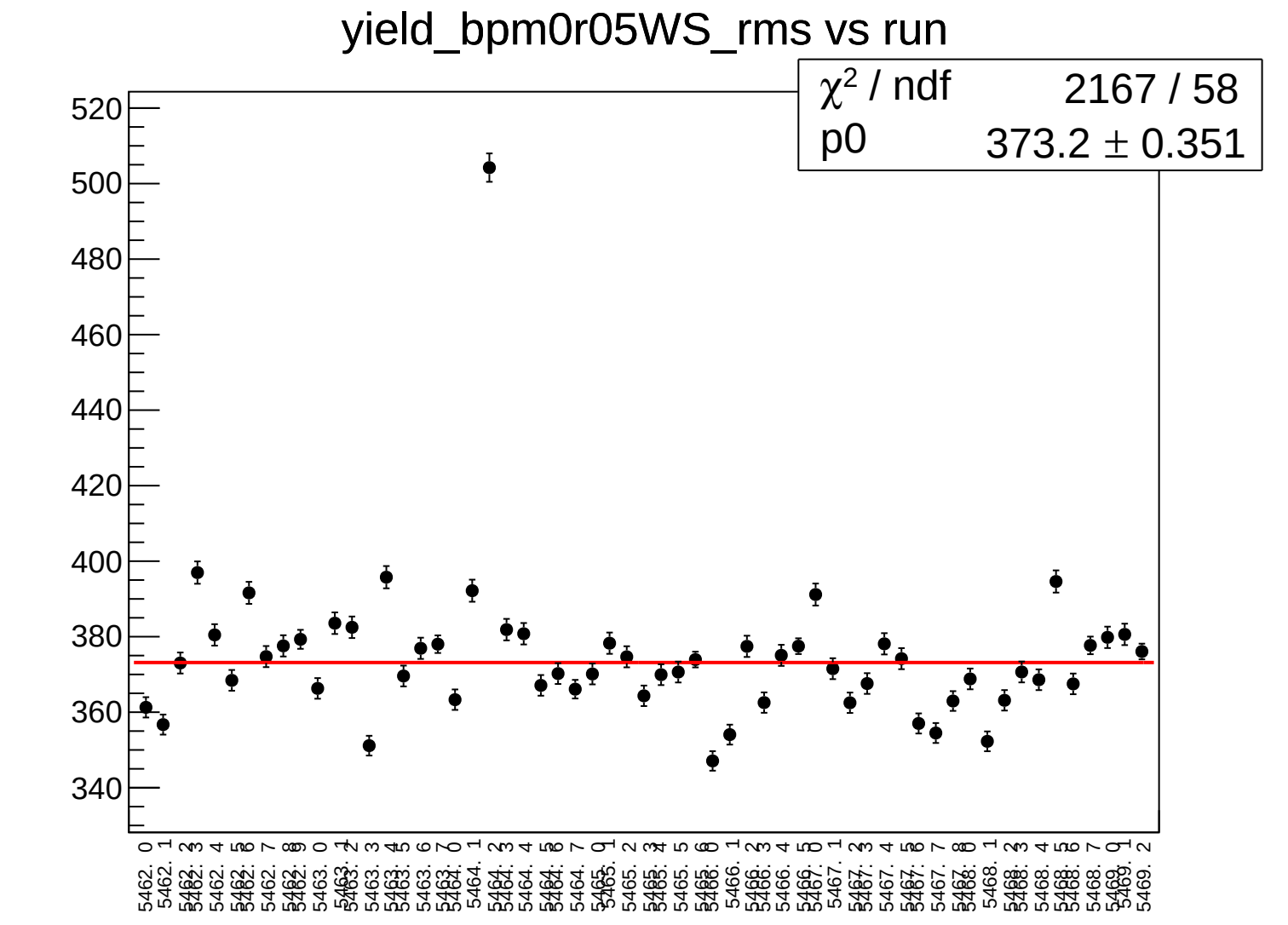

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.206e+05 / 58
p0 1.324e+05 ± 0.6245
133
132.8
132.6
132.4
132.2
132
pull
Entries 59
Mean −833.8
Std Dev 866.3
100
50
0
−50
−100

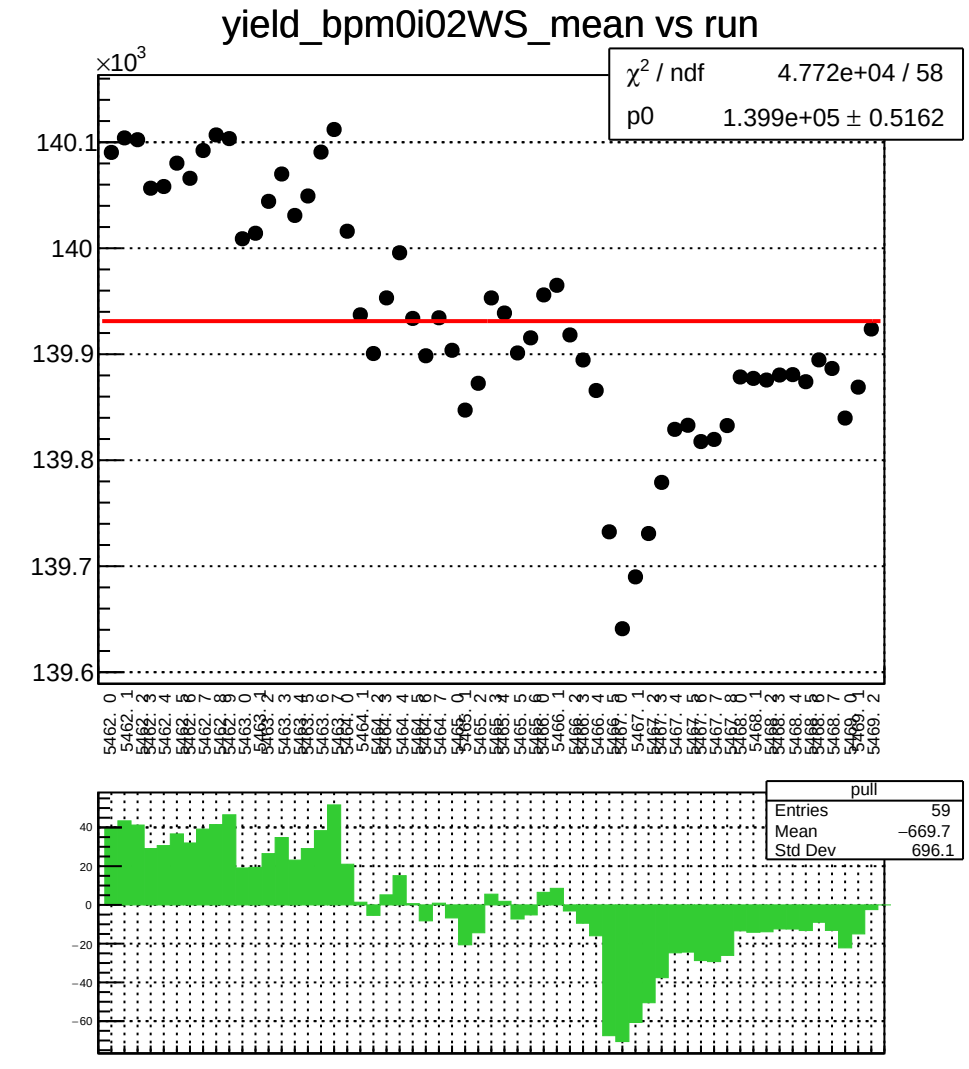

pull1D
Entries 59
Mean 4.028
Std Dev 2.594
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

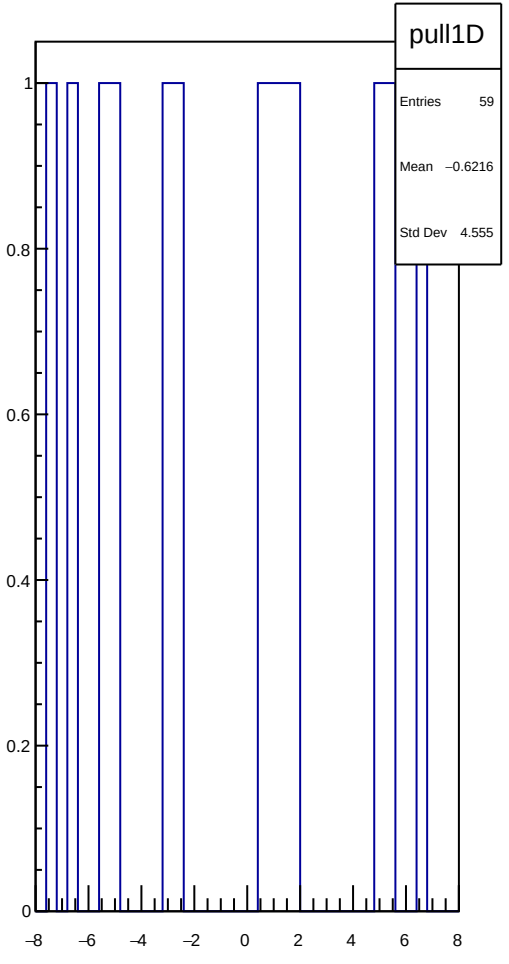

yield_bpm0r03WS_rms vs run
χ² / ndf 2118 / 58
p0 469.5 ± 0.4416
580
560
540
520
500
480
460
440

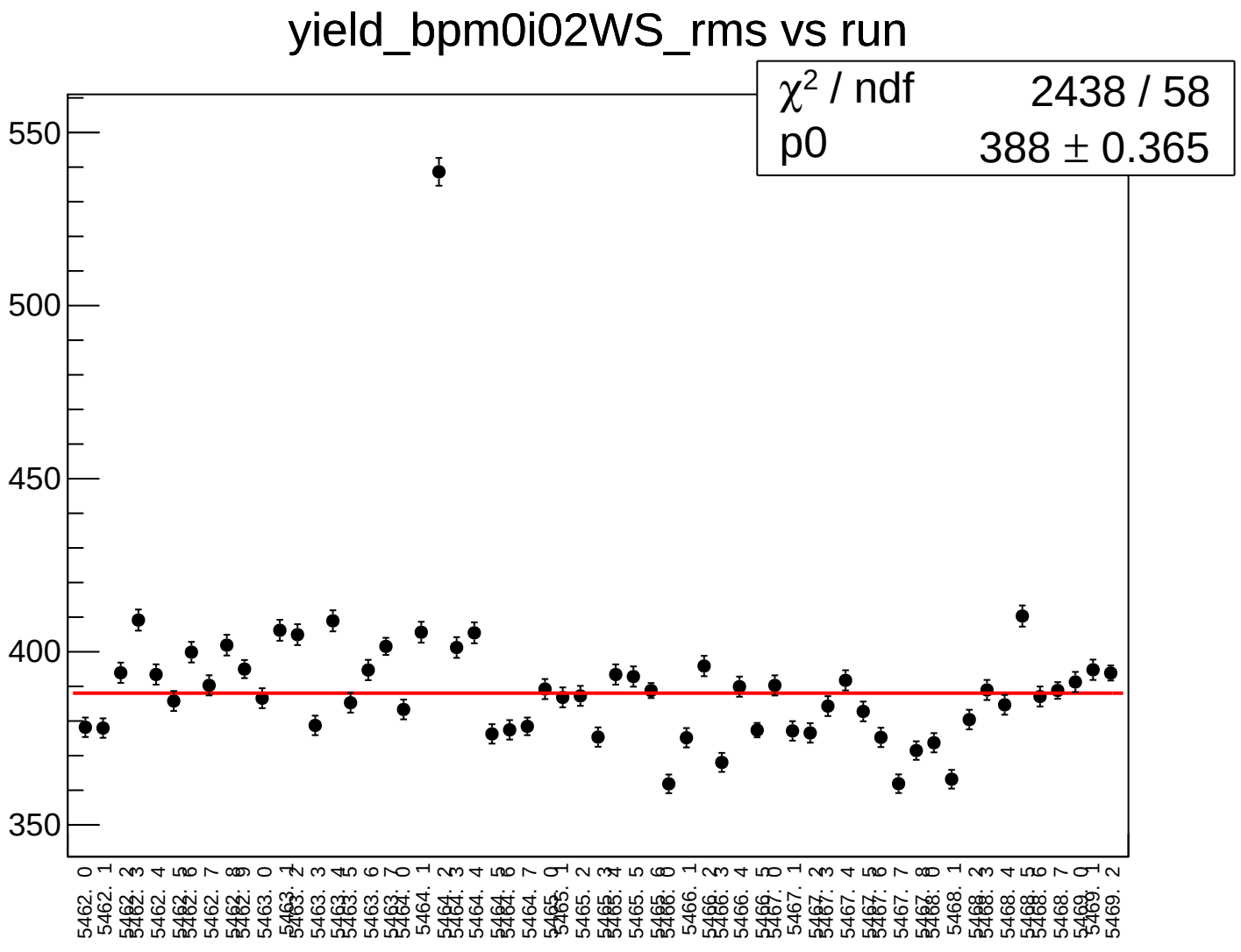

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.645e+05 / 58
p0 1.356e+05 ± 0.4963
135.9
135.8
135.7
135.6
135.5
135.4
135.3
135.2
pull
Entries 59
Mean −4188
Std Dev 4220
80
60
40
20
0
−20
−40
−60
−80
−100

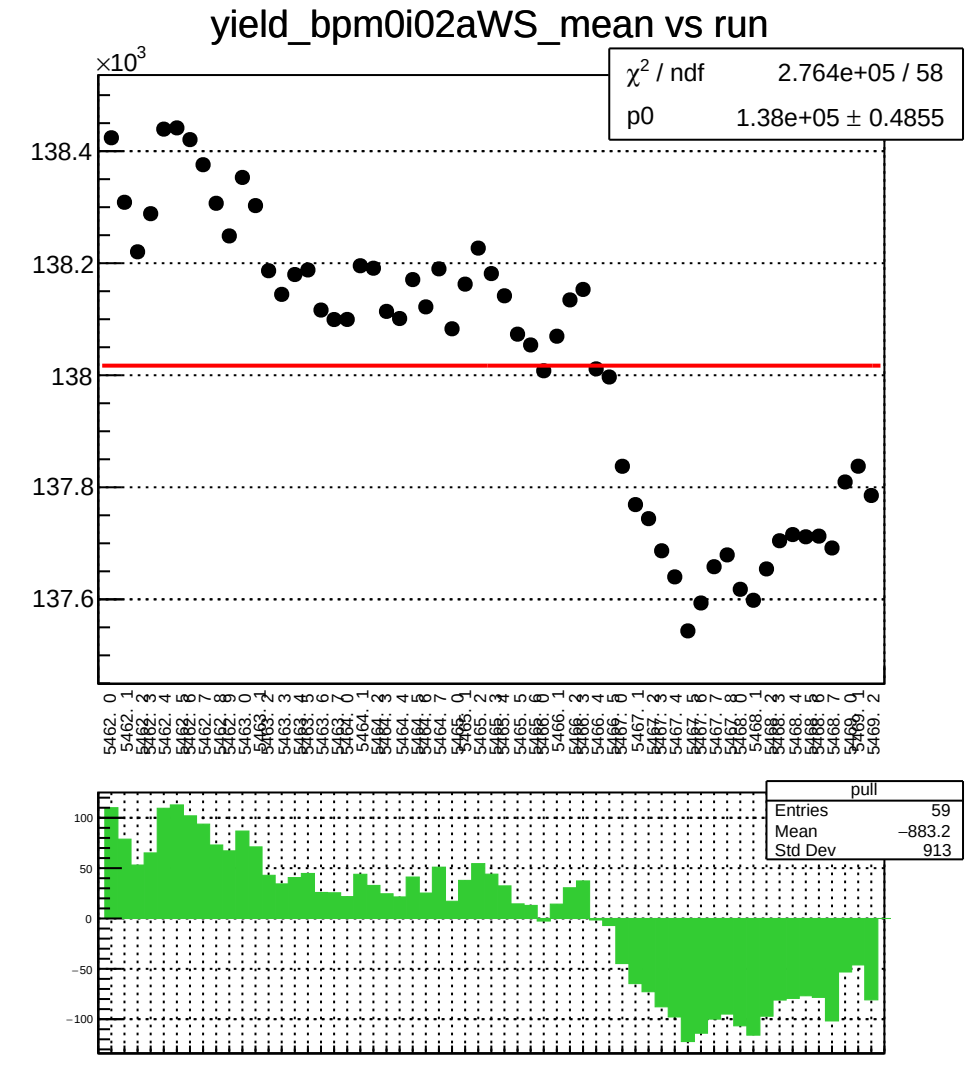

pull1D
Entries 59
Mean 2.041
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

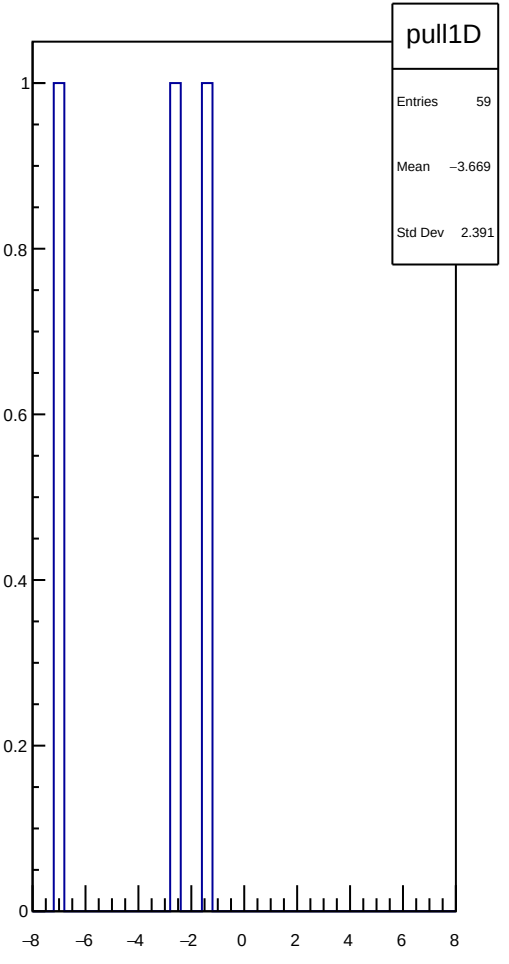

yield_bpm0r05WS_rms vs run
χ^2 / ndf 2167 / 58
p0 373.2 ± 0.351
520
500
480
460
440
420
400
380
360
340

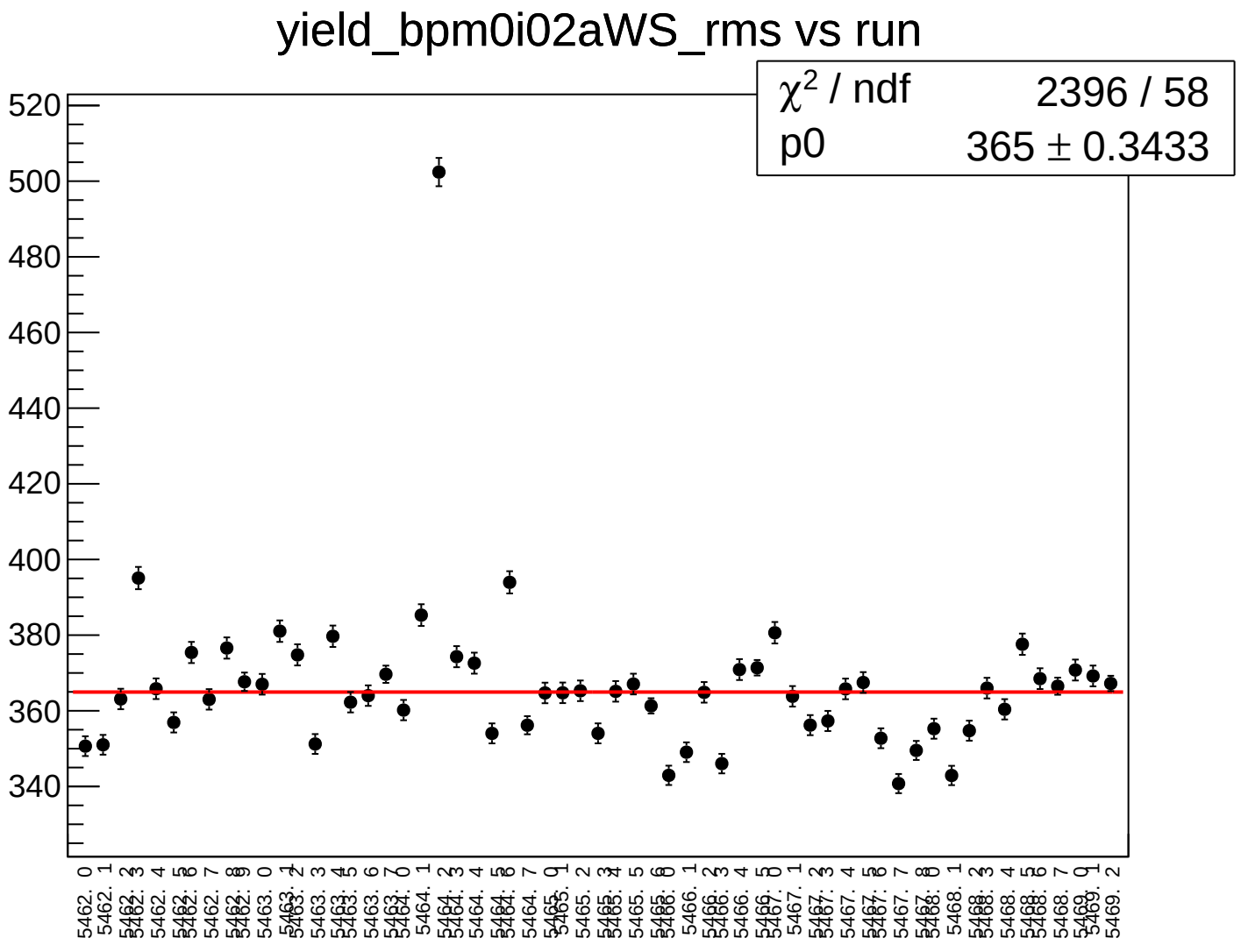

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 4.772e+04 / 58
p0 1.399e+05 ± 0.5162
140.1
140
139.9
139.8
139.7
139.6
pull
Entries 59
Mean −669.7
Std Dev 696.1
40
20
0
−20
−40
−60

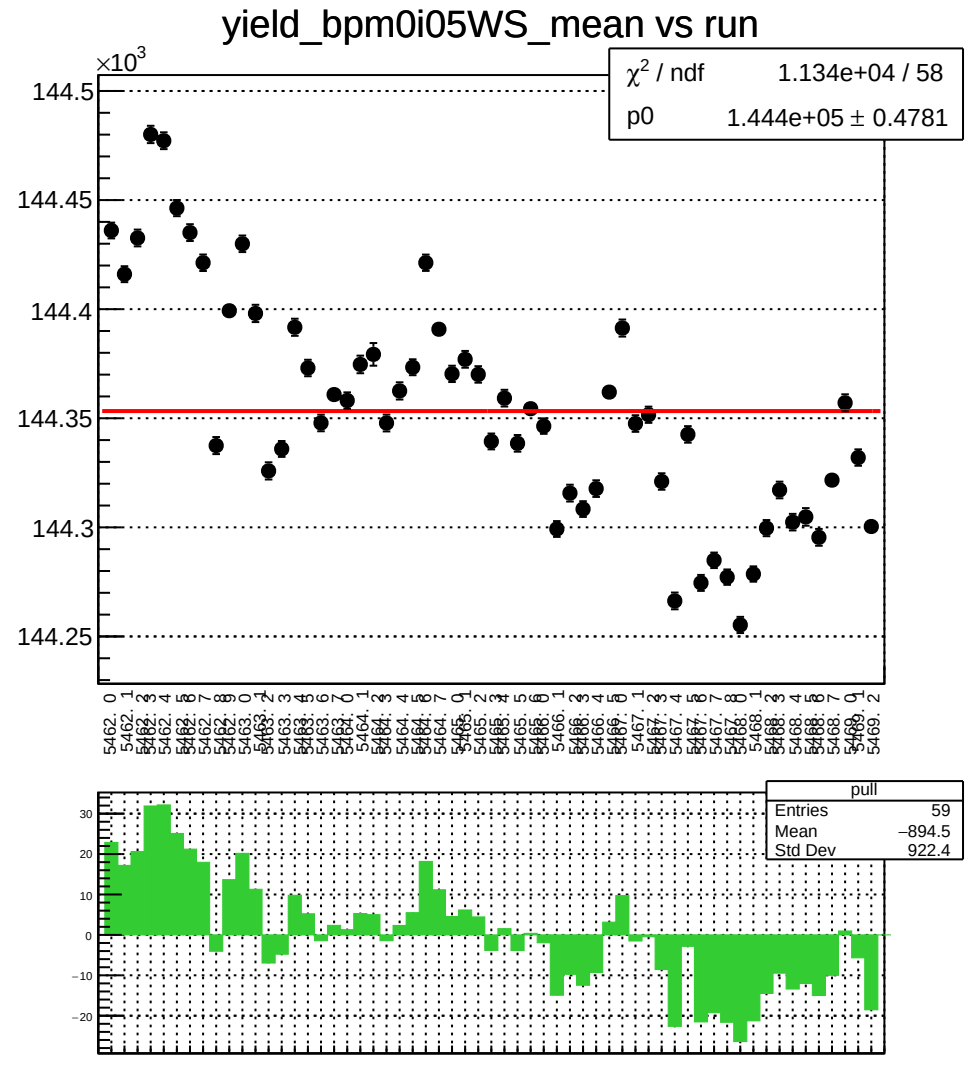

pull1D
Entries 59
Mean −0.6216
Std Dev 4.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

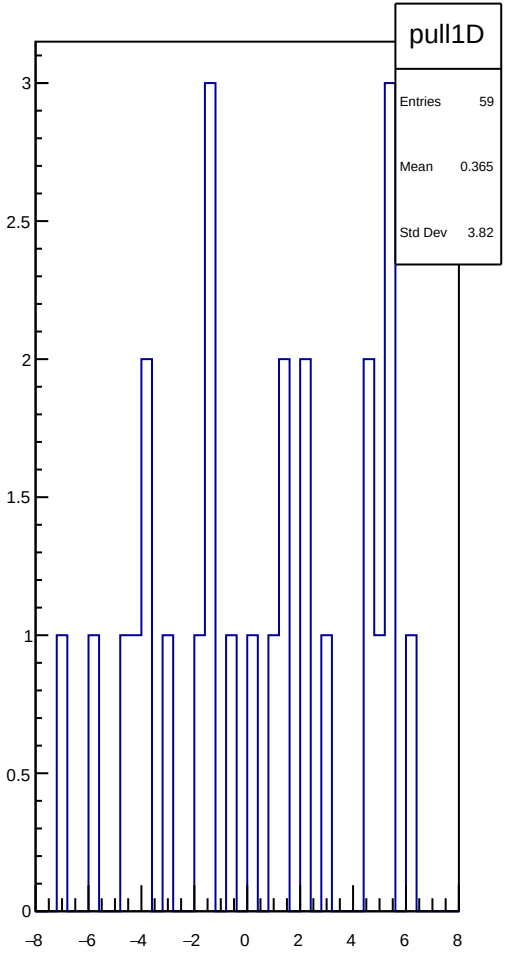

yield_bpm0i02WS_rms vs run
χ² / ndf 2438 / 58
p0 388 ± 0.365
550
500
450
400
350

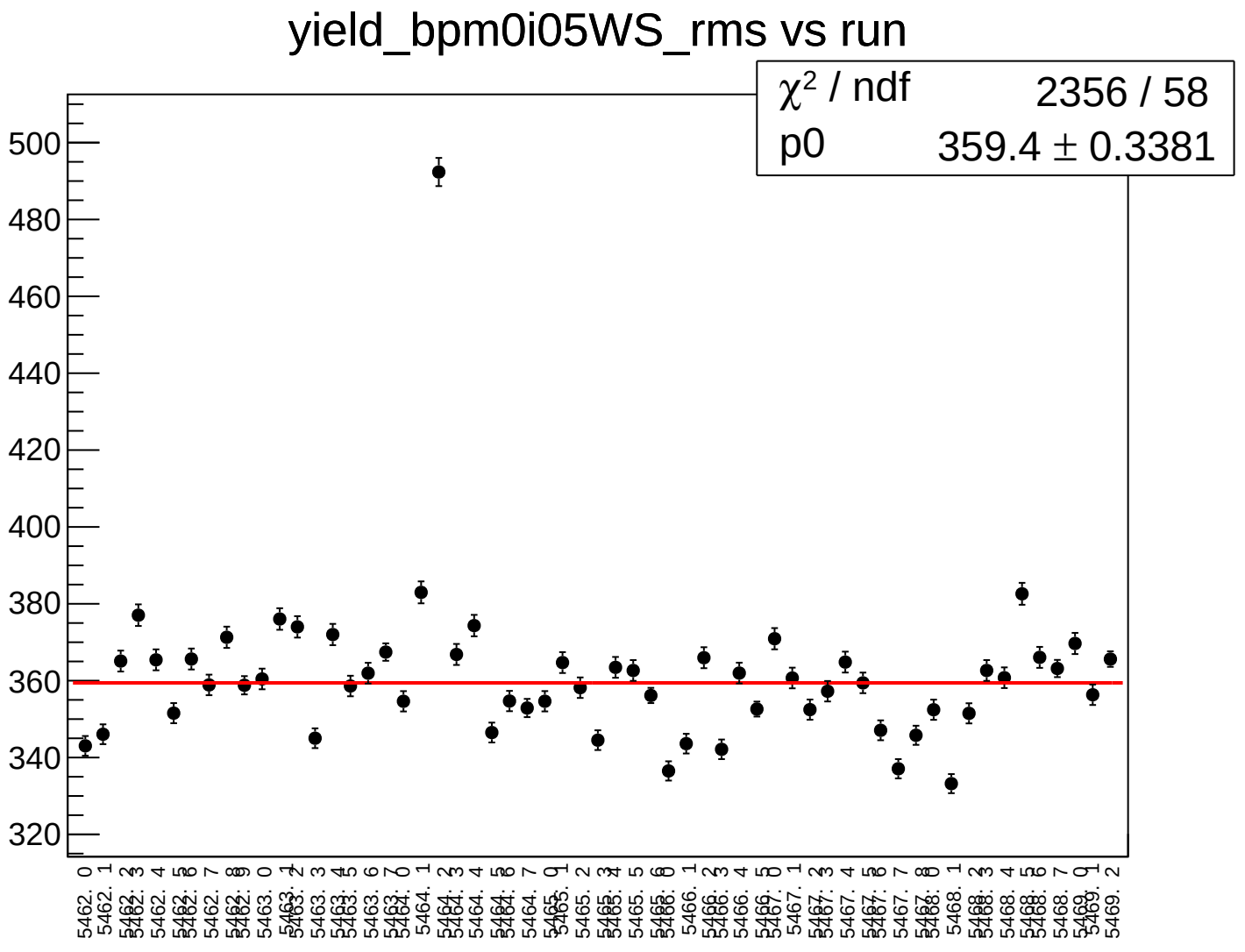

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.764e+05 / 58
p0 1.38e+05 ± 0.4855
138.4
138.2
138
137.8
137.6
pull
Entries 59
Mean −883.2
Std Dev 913
100
50
0
−50
−100

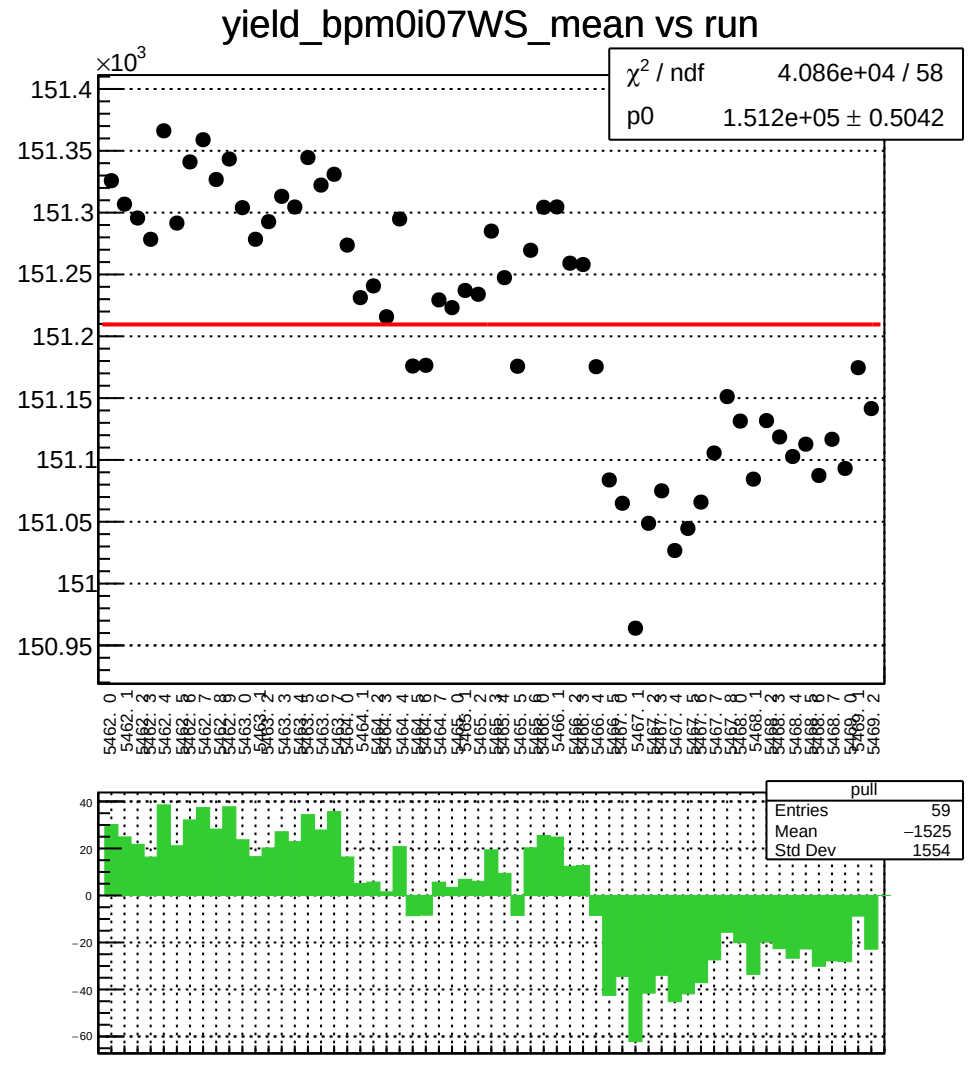

pull1D
Entries 59
Mean −3.669
Std Dev 2.391
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

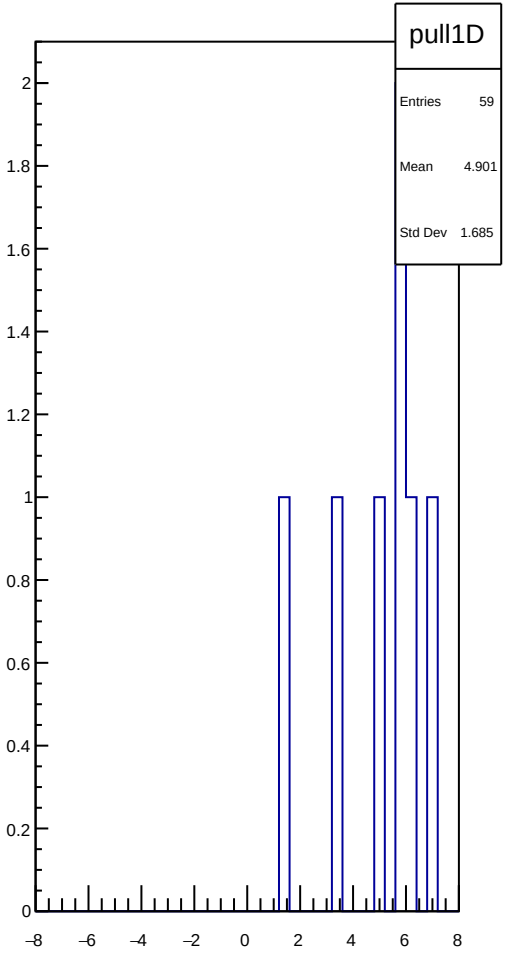

yield_bpm0i02aWS_rms vs run
χ² / ndf 2396 / 58
p0 365 ± 0.3433
520
500
480
460
440
420
400
380
360
340

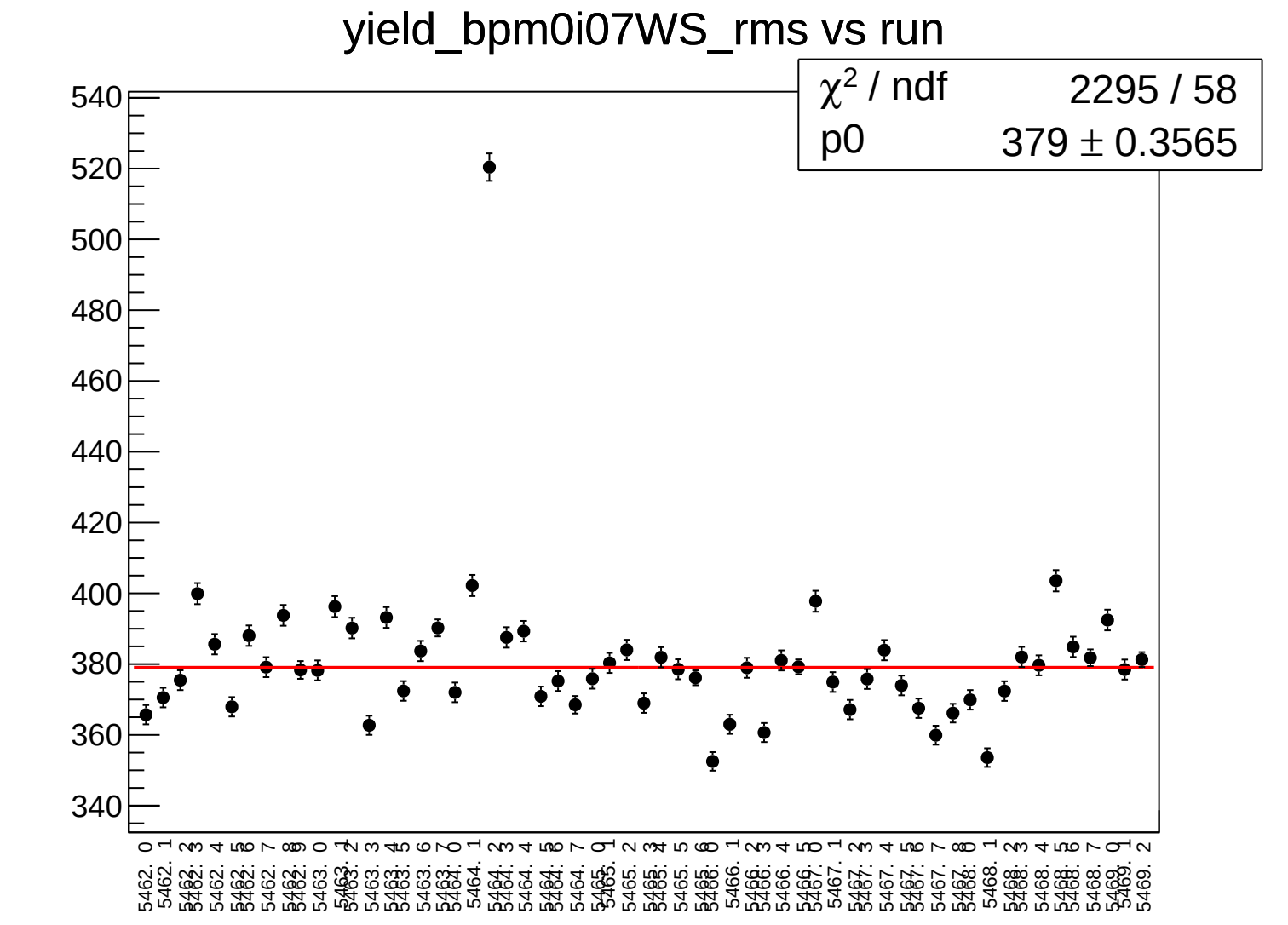

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.134e+04 / 58
p0 1.444e+05 ± 0.4781
144.5
144.45
144.4
144.35
144.3
144.25
pull
Entries 59
Mean −894.5
Std Dev 922.4
30
20
10
0
−10
−20

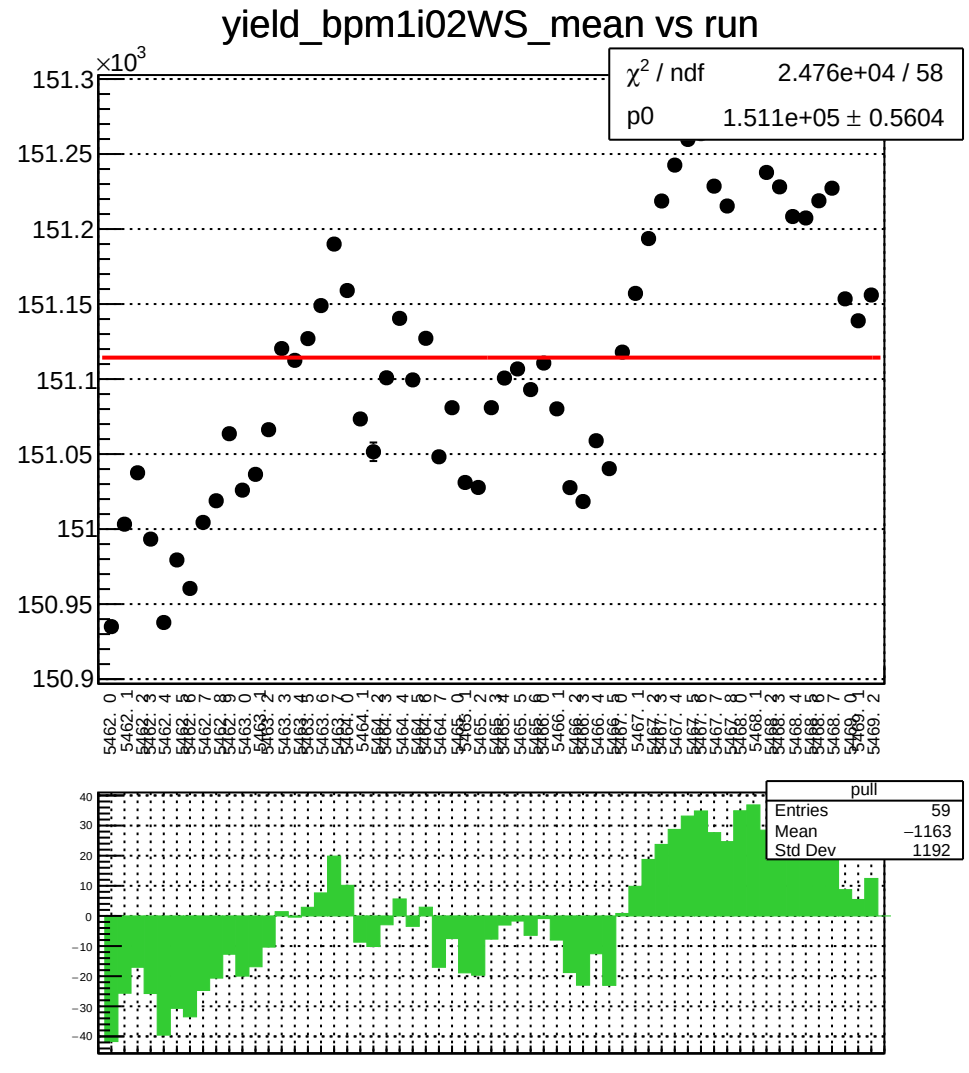

pull1D
Entries 59
Mean 0.365
Std Dev 3.82
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

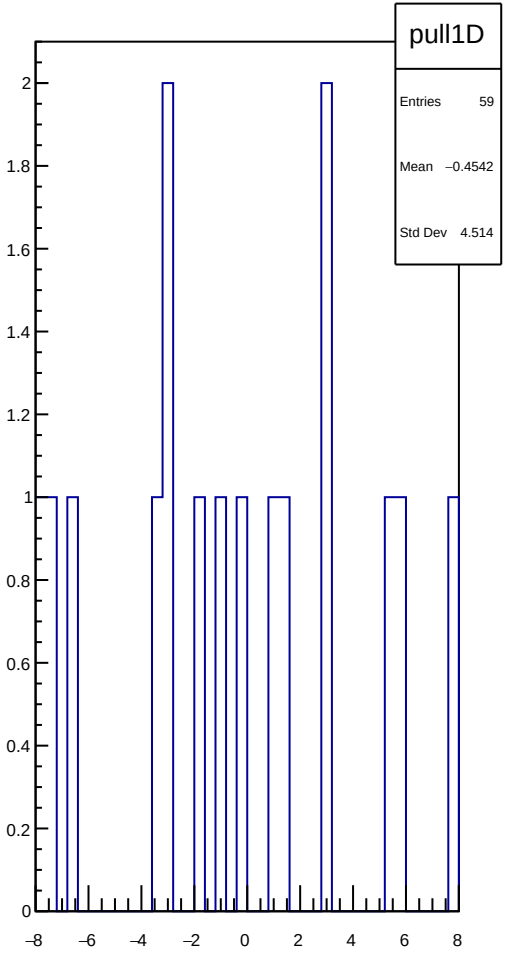

yield_bpm0i05WS_rms vs run
χ² / ndf 2356 / 58
p0 359.4 ± 0.3381
500
480
460
440
420
400
380
360
340
320

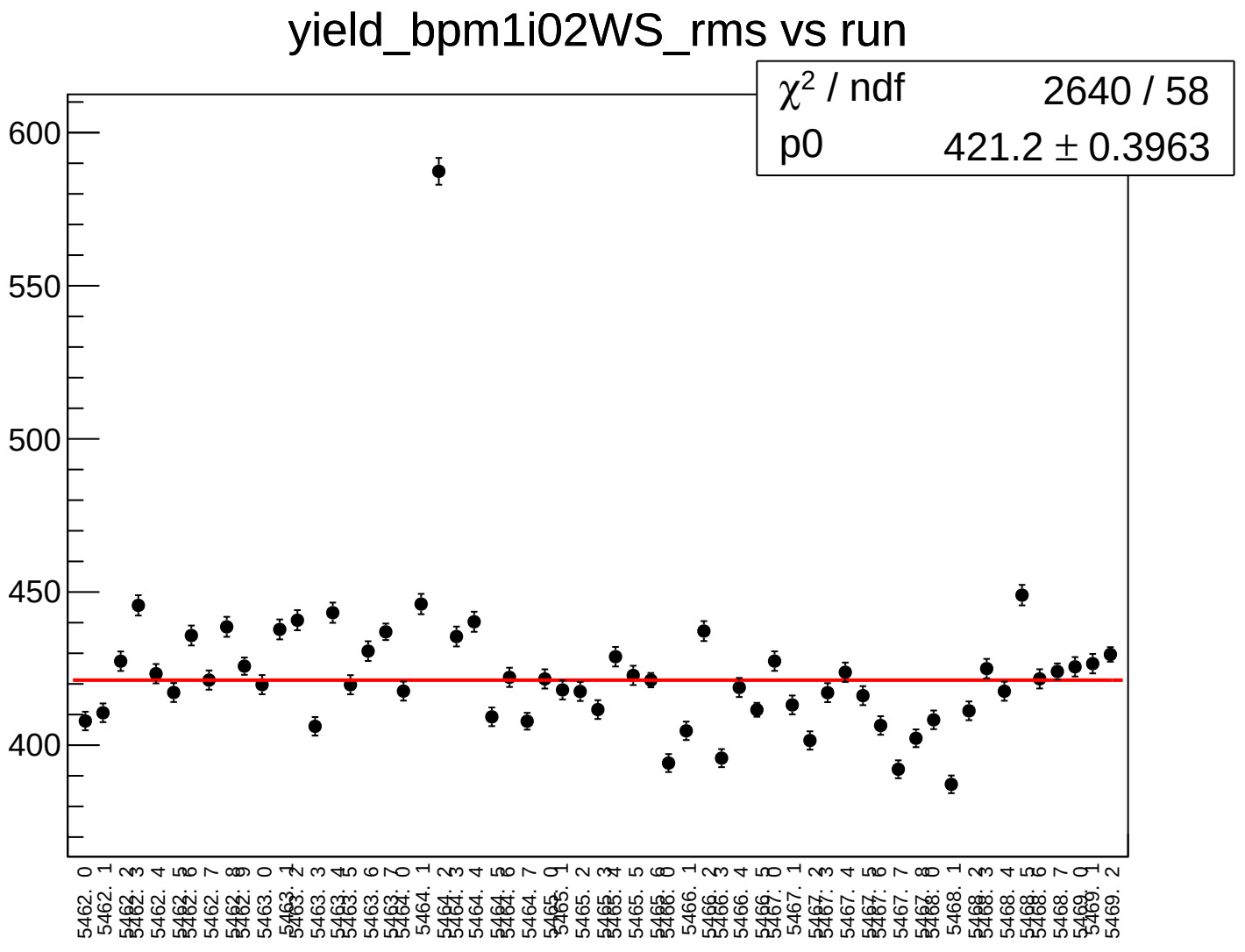

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 4.086e+04 / 58
p0 1.512e+05 ± 0.5042
151.4
151.35
151.3
151.25
151.2
151.15
151.1
151.05
151
150.95
pull
Entries 59
Mean −1525
Std Dev 1554
40
20
0
−20
−40
−60

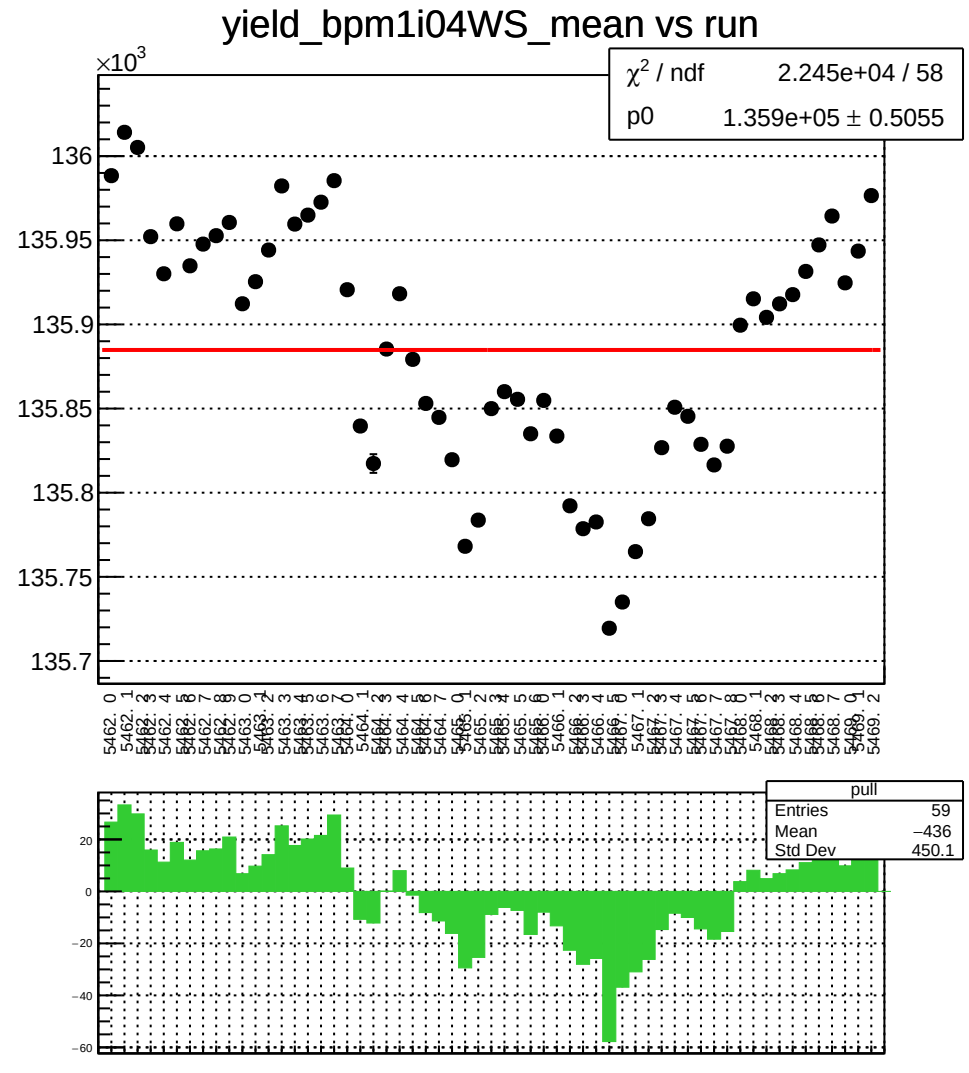

pull1D
Entries 59
Mean 4.901
Std Dev 1.685
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

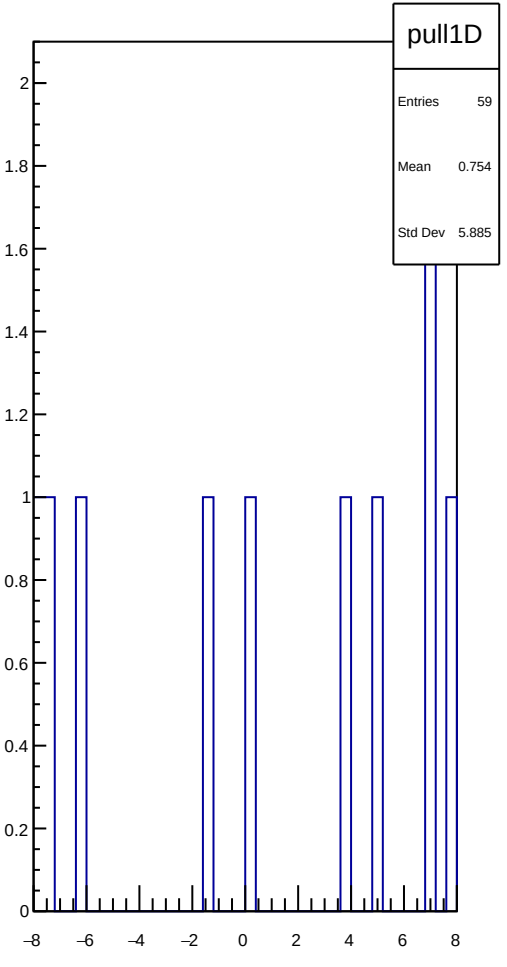

yield_bpm0i07WS_rms vs run
χ² / ndf 2295 / 58
p0 379 ± 0.3565
540
520
500
480
460
440
420
400
380
360
340

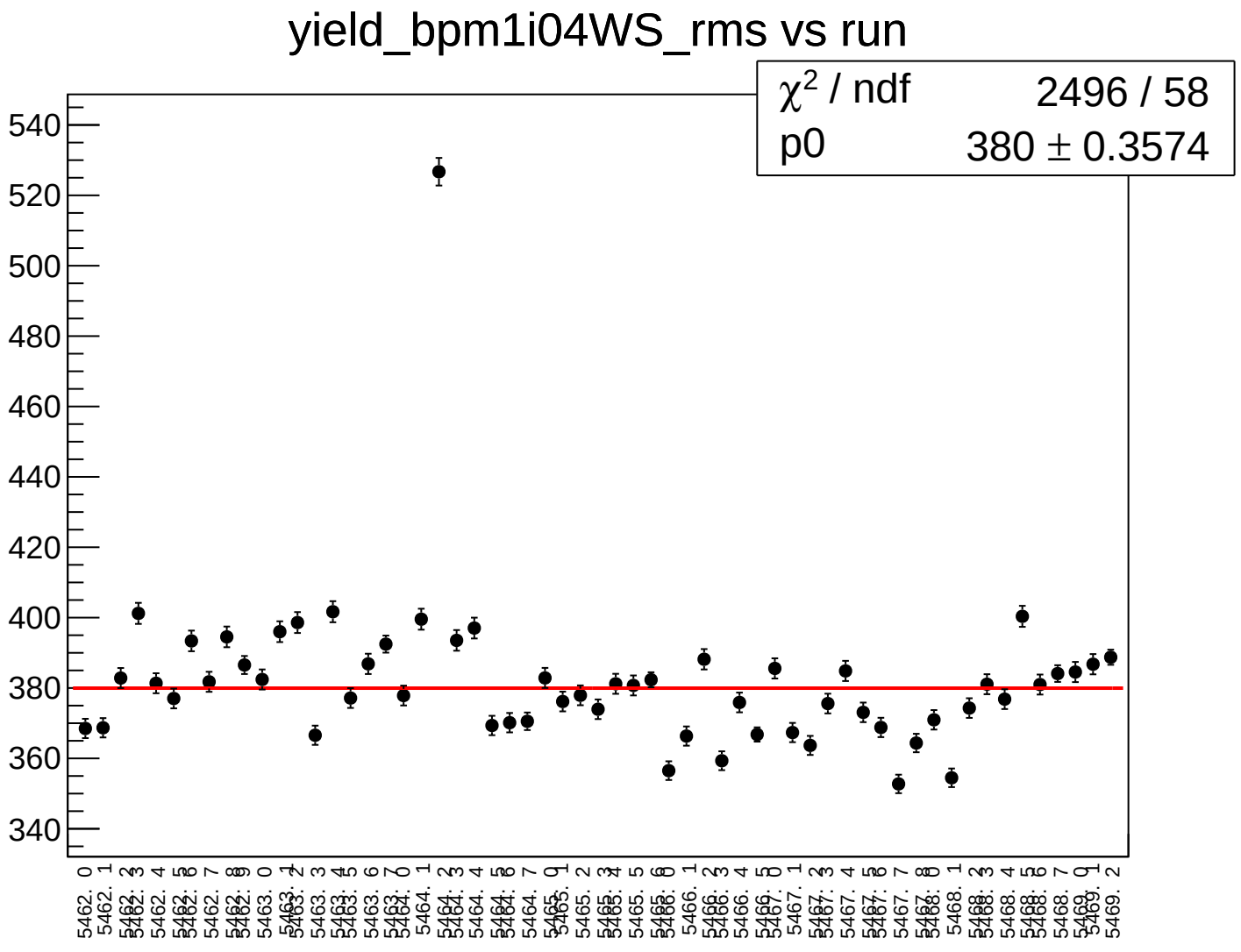

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 2.476e+04 / 58
p0 1.511e+05 ± 0.5604
151.3
151.25
151.2
151.15
151.1
151.05
151
150.95
150.9
pull
Entries 59
Mean −1163
Std Dev 1192
40
30
20
10
0
−10
−20
−30
−40

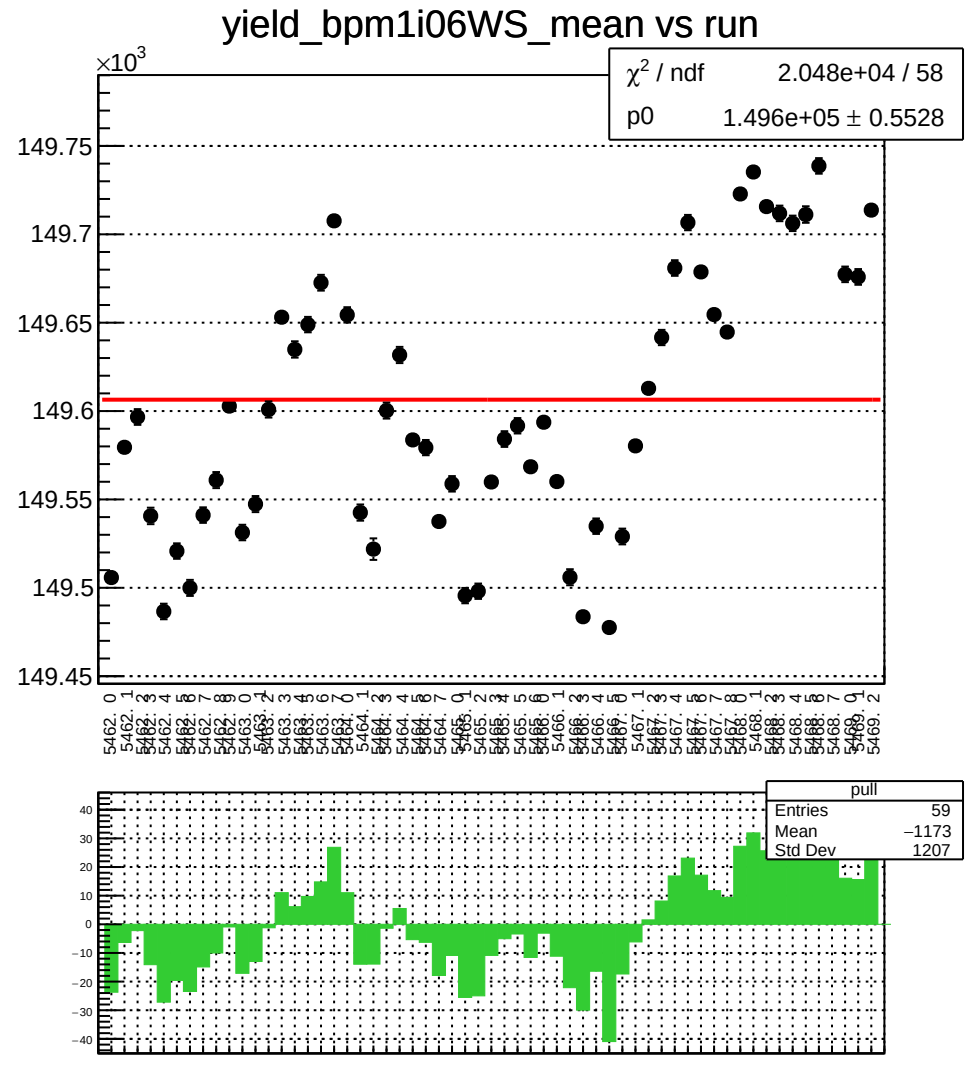

pull1D
Entries 59
Mean −0.4542
Std Dev 4.514
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

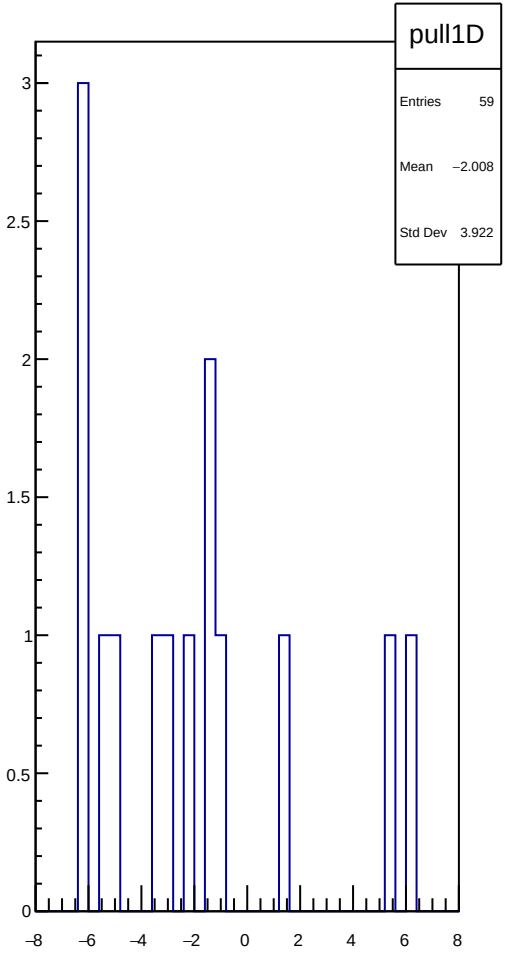

yield_bpm1i02WS_rms vs run
χ² / ndf 2640 / 58
p0 421.2 ± 0.3963
600
550
500
450
400

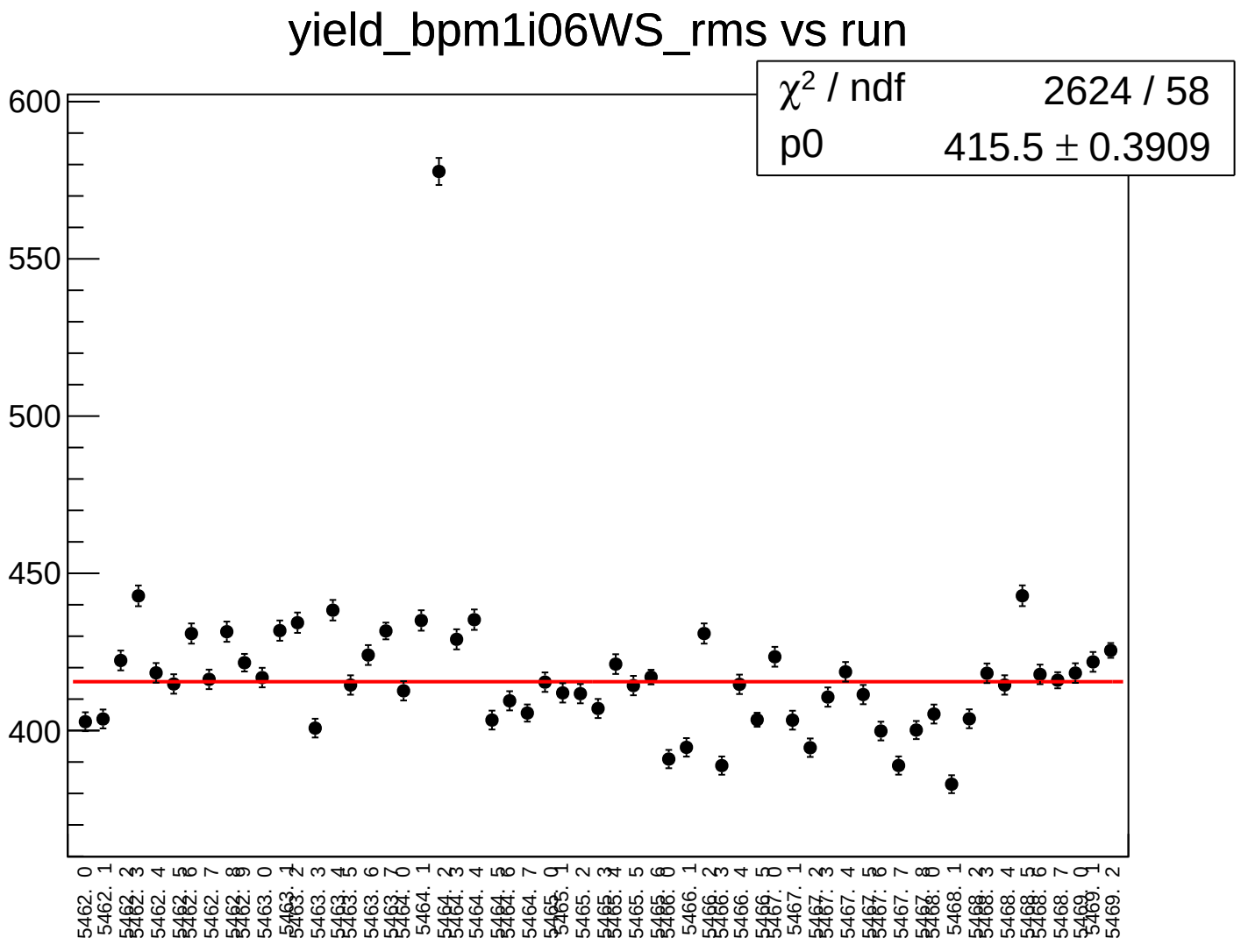

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.245e+04 / 58
p0 1.359e+05 ± 0.5055
136
135.95
135.9
135.85
135.8
135.75
135.7
pull
Entries 59
Mean −436
Std Dev 450.1
20
0
−20
−40
−60

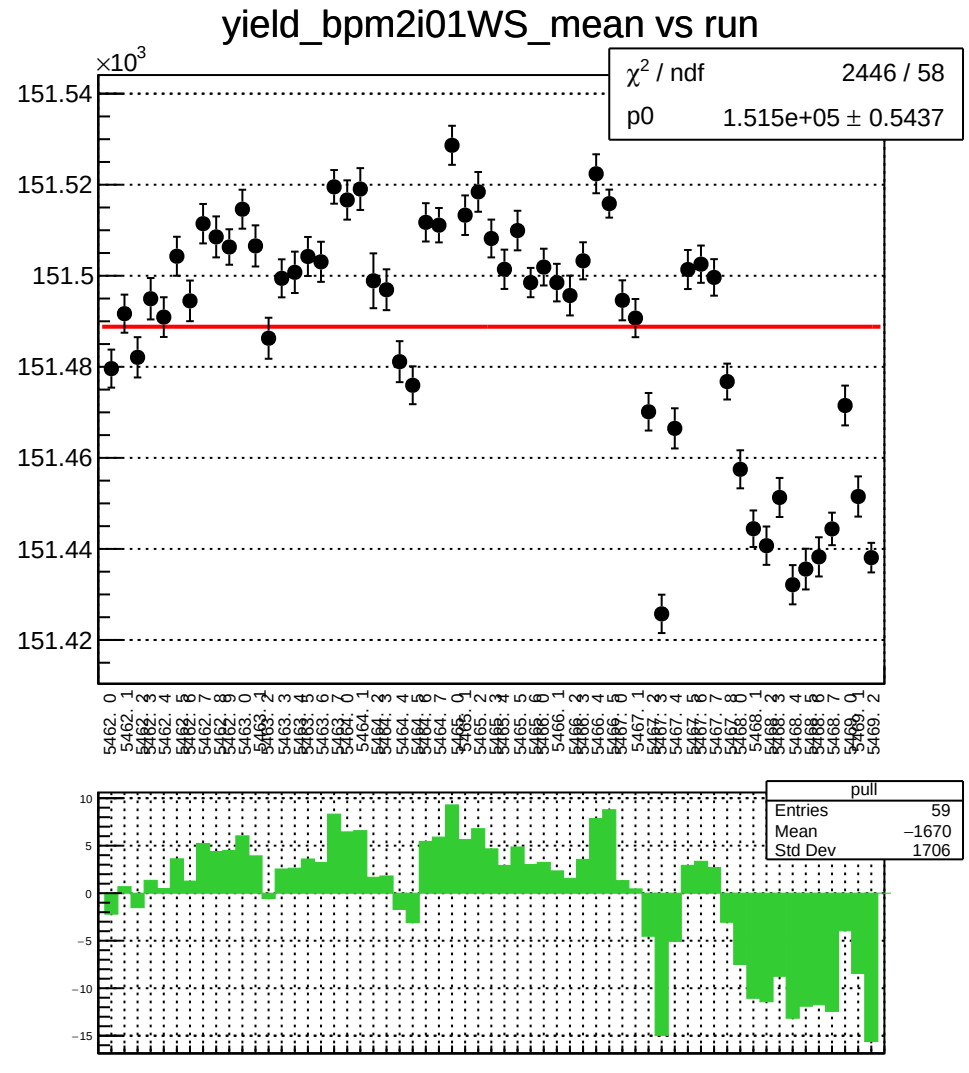

pull1D
Entries 59
Mean 0.754
Std Dev 5.885
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

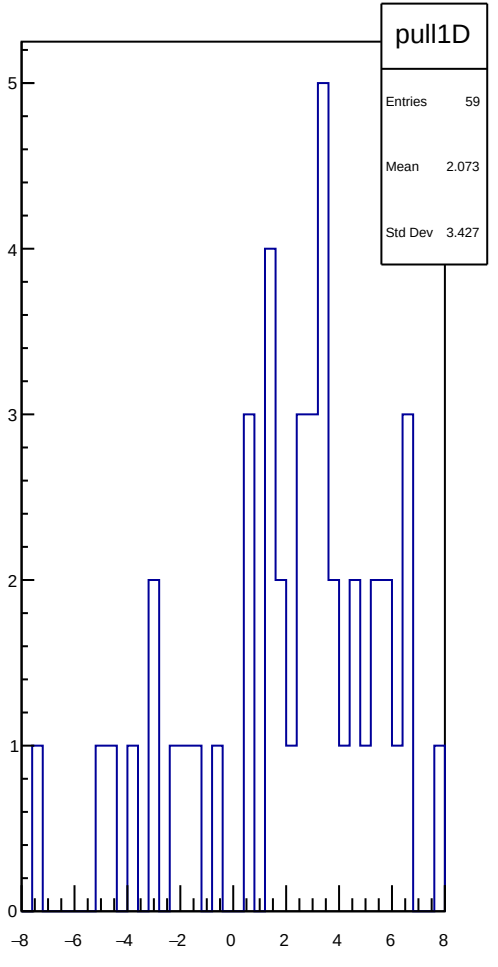

yield_bpm1i04WS_rms vs run
χ² / ndf 2496 / 58
p0 380 ± 0.3574
540
520
500
480
460
440
420
400
380
360
340
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

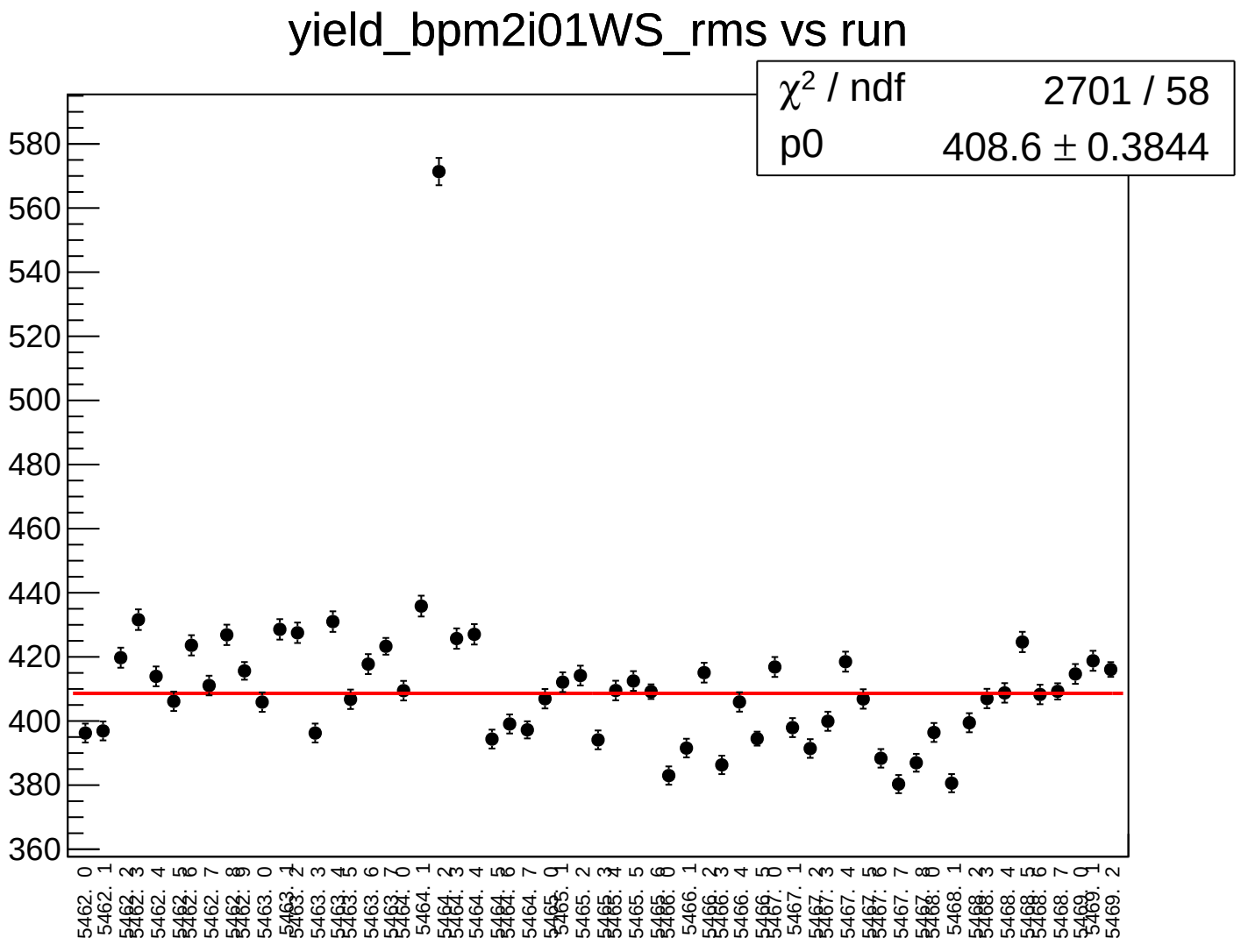

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 2.048e+04 / 58
p0 1.496e+05 ± 0.5528
149.75
149.7
149.65
149.6
149.55
149.5
149.45
pull
Entries 59
Mean −1173
Std Dev 1207
40
30
20
10
0
−10
−20
−30
−40

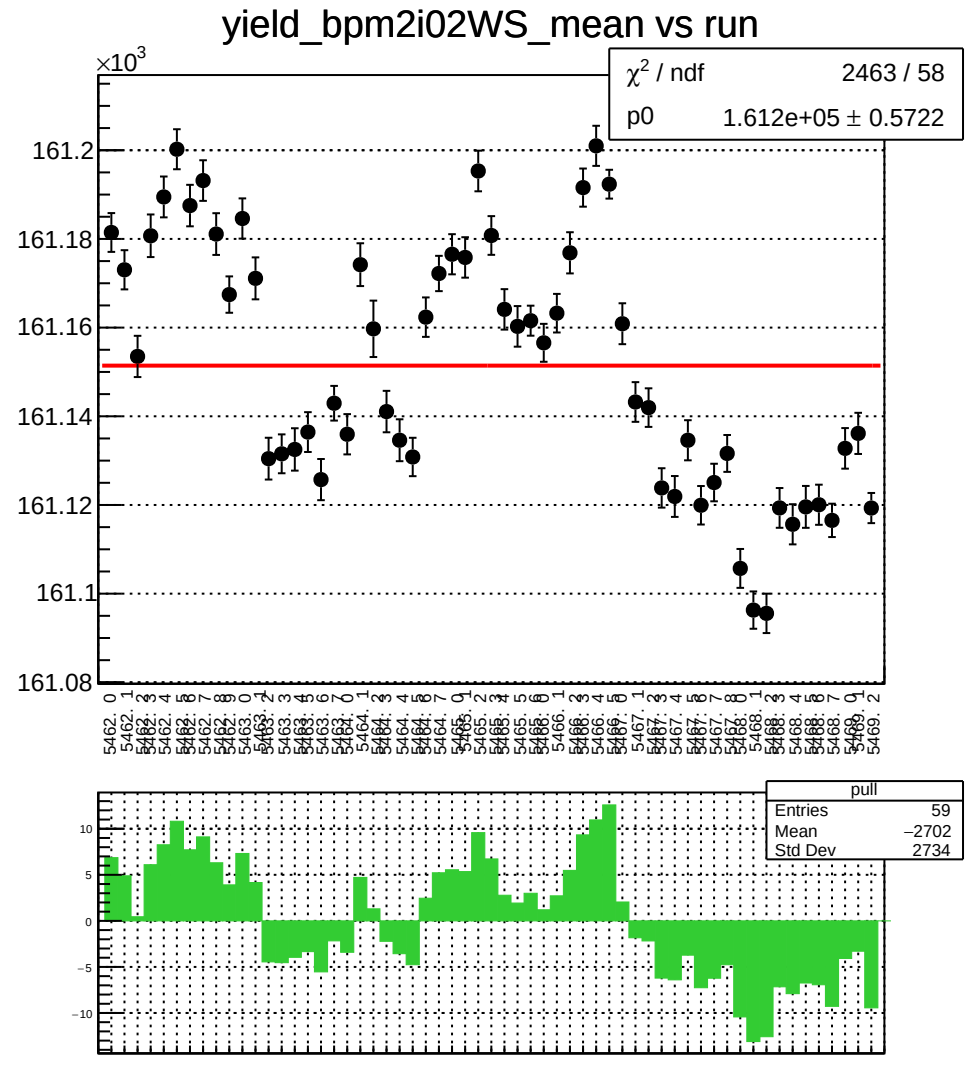

pull1D
Entries 59
Mean −2.008
Std Dev 3.922
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

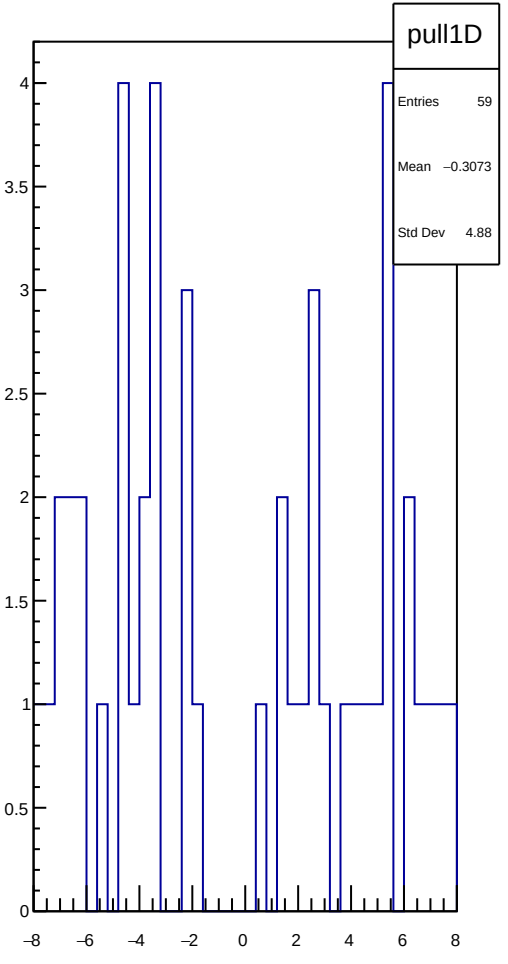

yield_bpm1i06WS_rms vs run
χ² / ndf 2624 / 58
p0 415.5 ± 0.3909
600
550
500
450
400

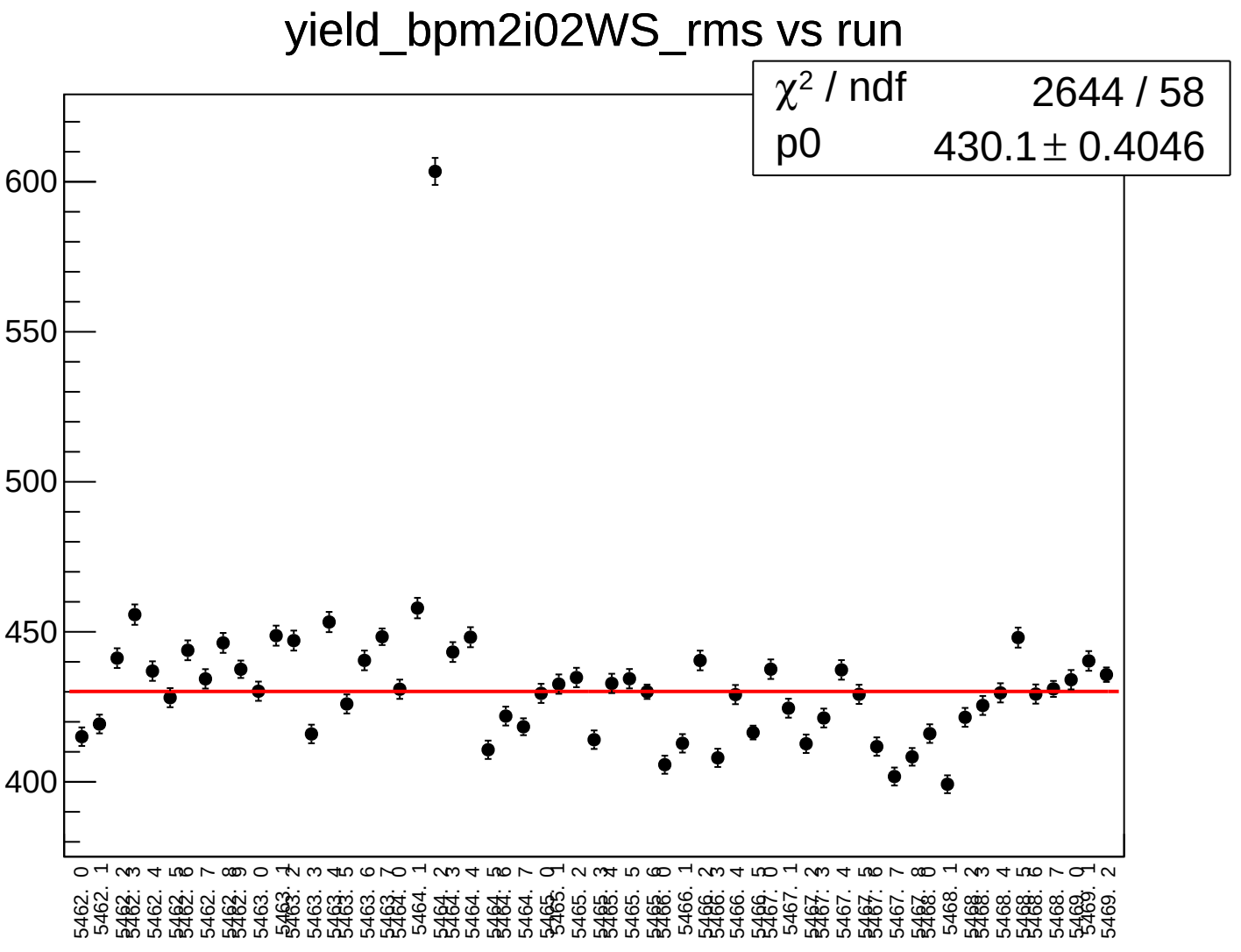

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2446 / 58
p0 1.515e+05 ± 0.5437
151.54
151.52
151.5
151.48
151.46
151.44
151.42
pull
Entries 59
Mean −1670
Std Dev 1706
10
5
0
−5
−10
−15

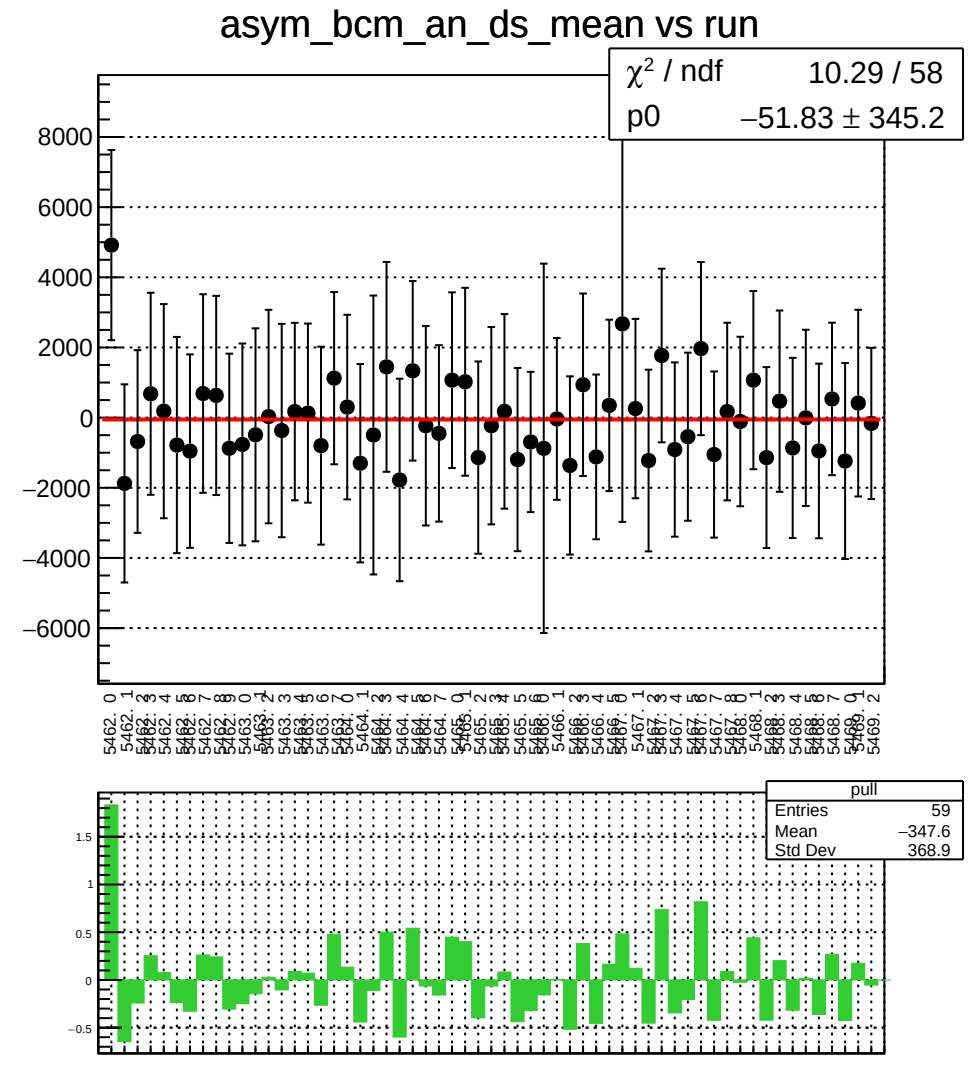

pull1D
Entries 59
Mean 2.073
Std Dev 3.427
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

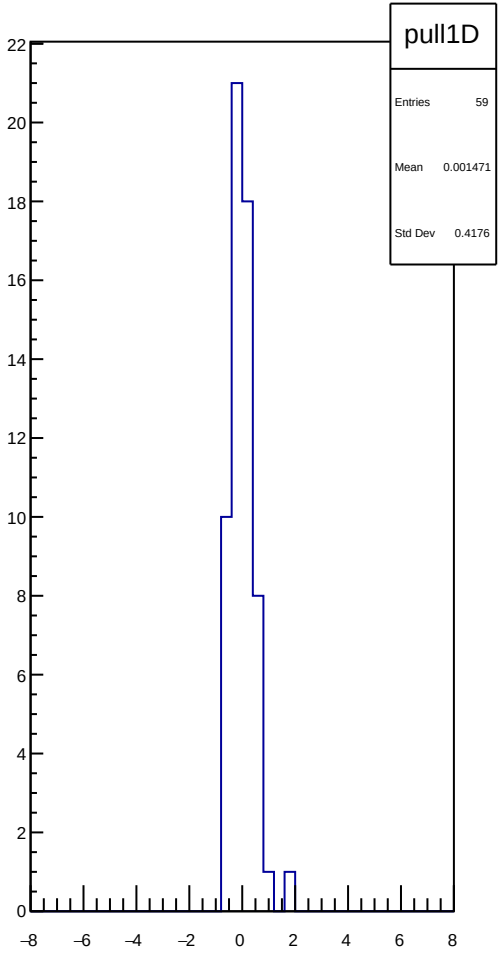

yield_bpm2i01WS_rms vs run
χ² / ndf 2701 / 58
p0 408.6 ± 0.3844
580
560
540
520
500
480
460
440
420
400
380
360

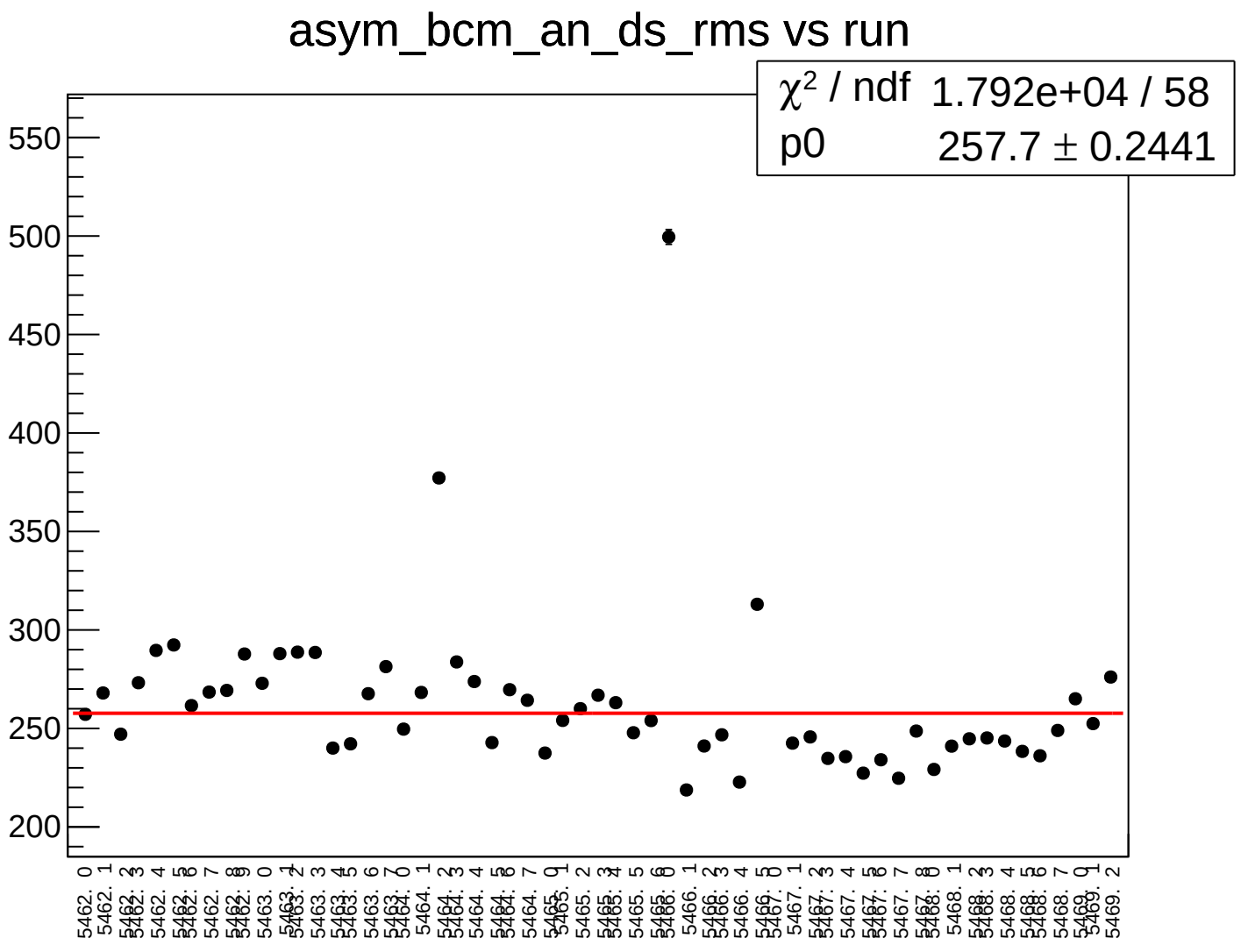

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2463 / 58
p0 1.612e+05 ± 0.5722
161.2
161.18
161.16
161.14
161.12
161.1
161.08
pull
Entries 59
Mean −2702
Std Dev 2734
10
5
0
−5
−10

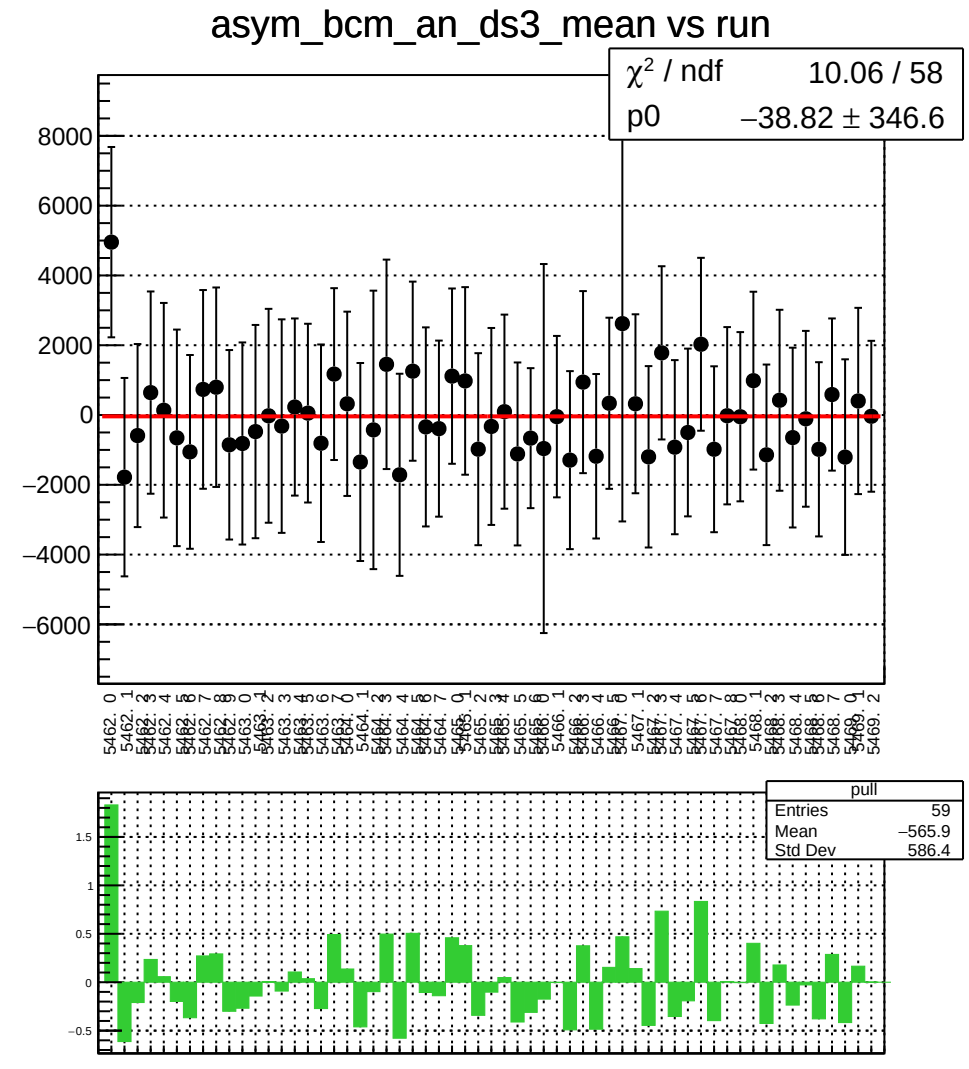

pull1D
Entries 59
Mean −0.3073
Std Dev 4.88
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

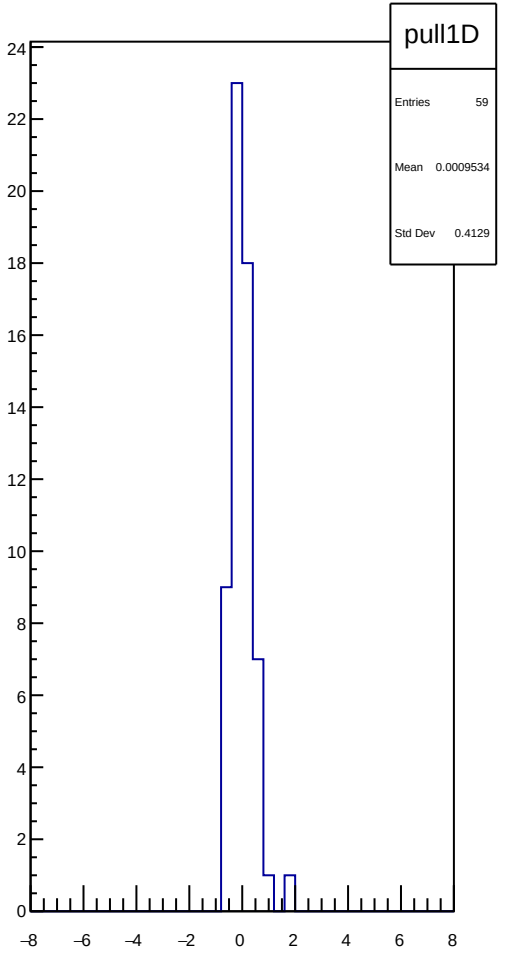

yield_bpm2i02WS_rms vs run
χ² / ndf 2644 / 58
p0 430.1 ± 0.4046
600
550
500
450
400

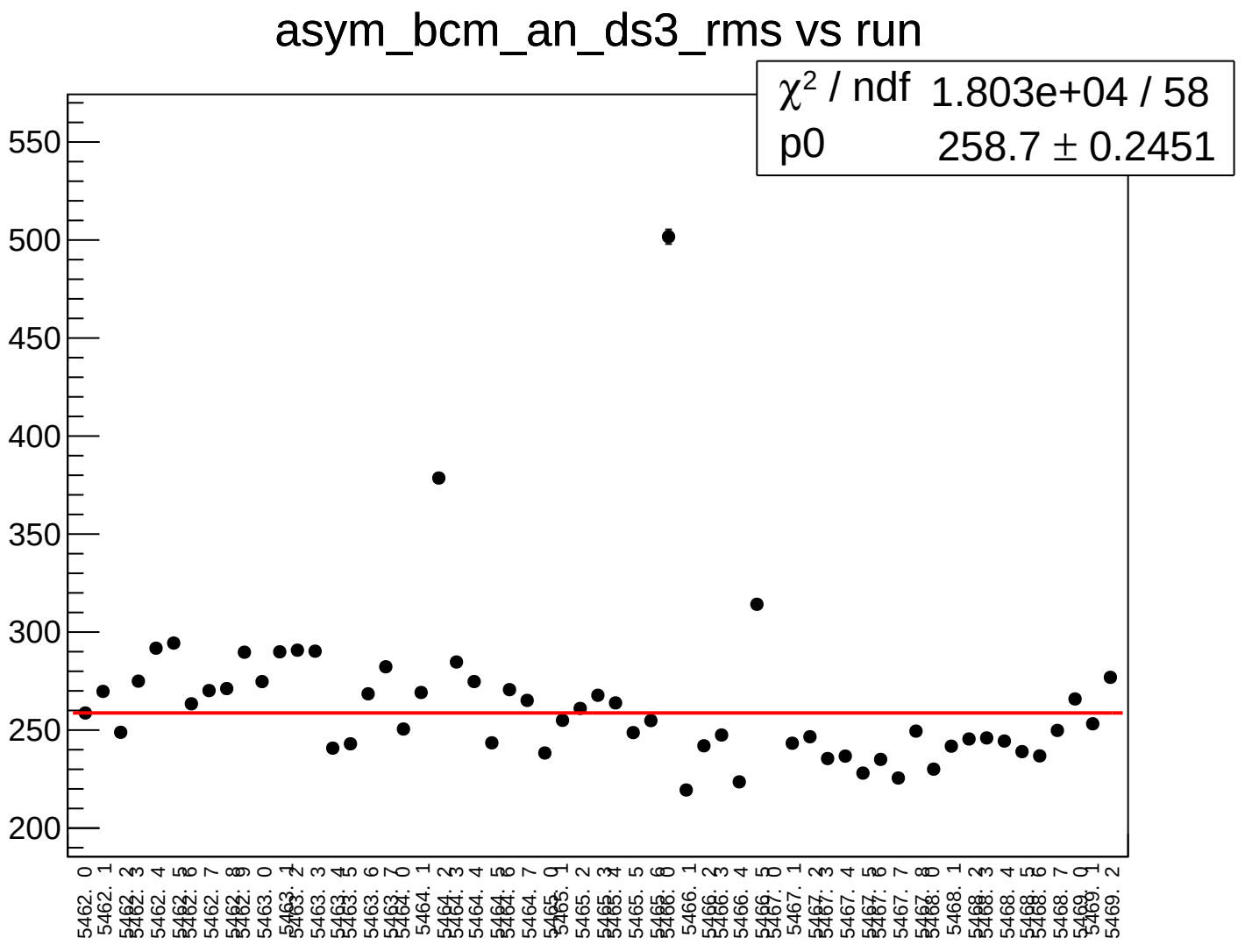

asym_bcm_an_ds_mean vs run
χ² / ndf 10.29 / 58
p0 −51.83 ± 345.2
pull
Entries 59
Mean −347.6
Std Dev 368.9

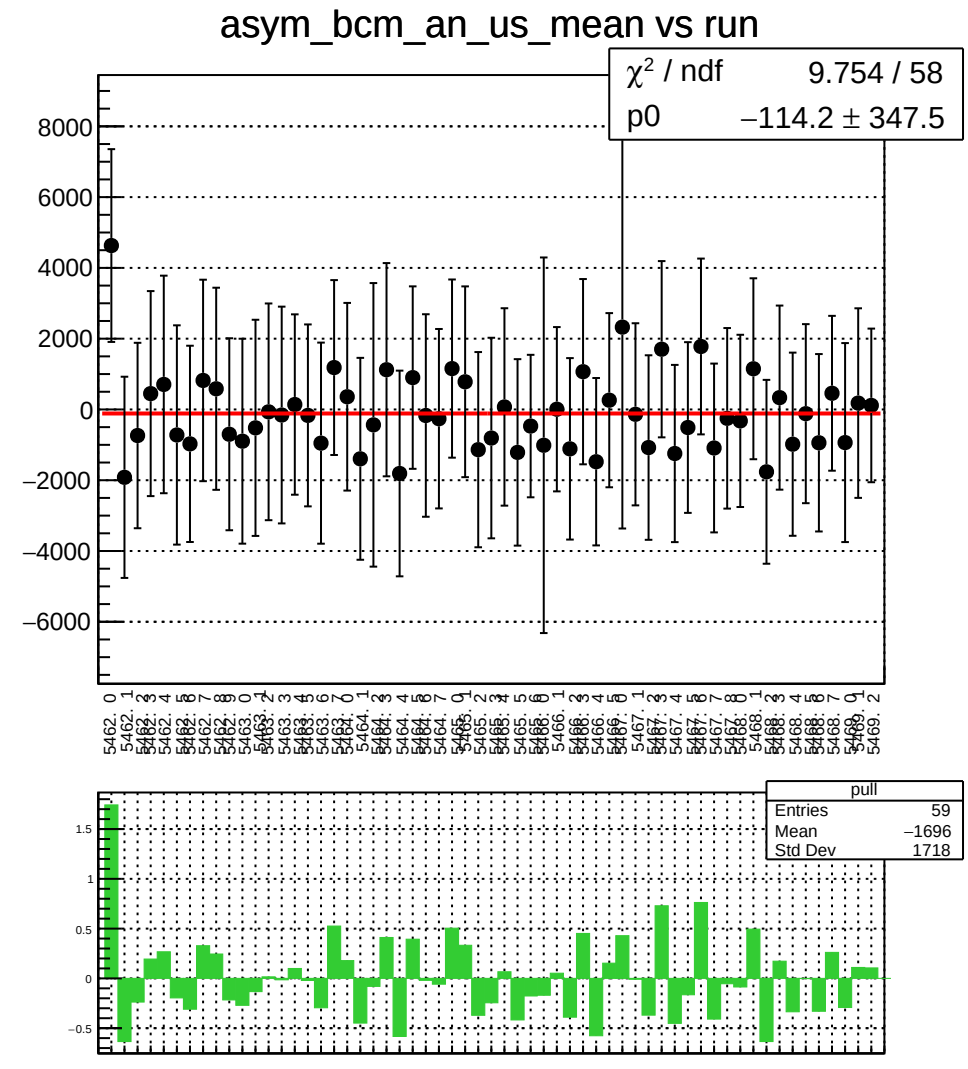

pull1D
Entries 59
Mean 0.001471
Std Dev 0.4176

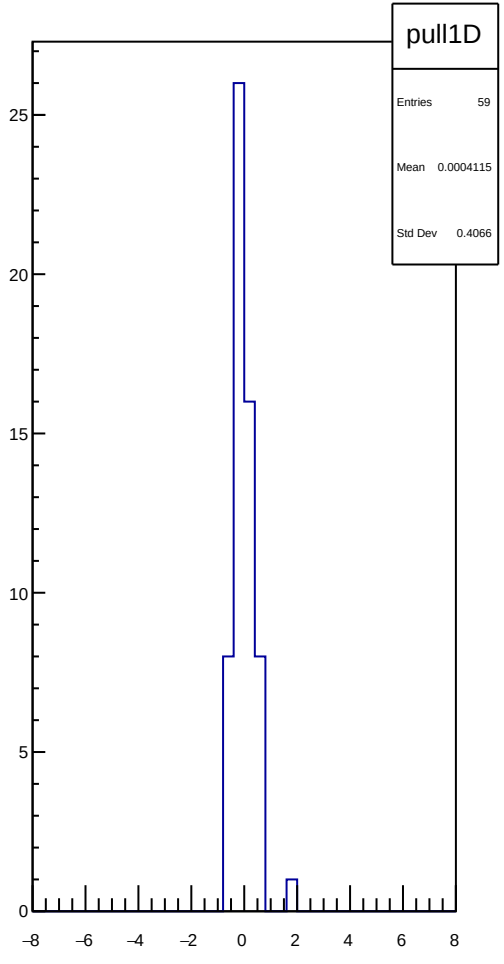

asym_bcm_an_ds_rms vs run
χ² / ndf 1.792e+04 / 58
p0 257.7 ± 0.2441
550
500
450
400
350
300
250
200

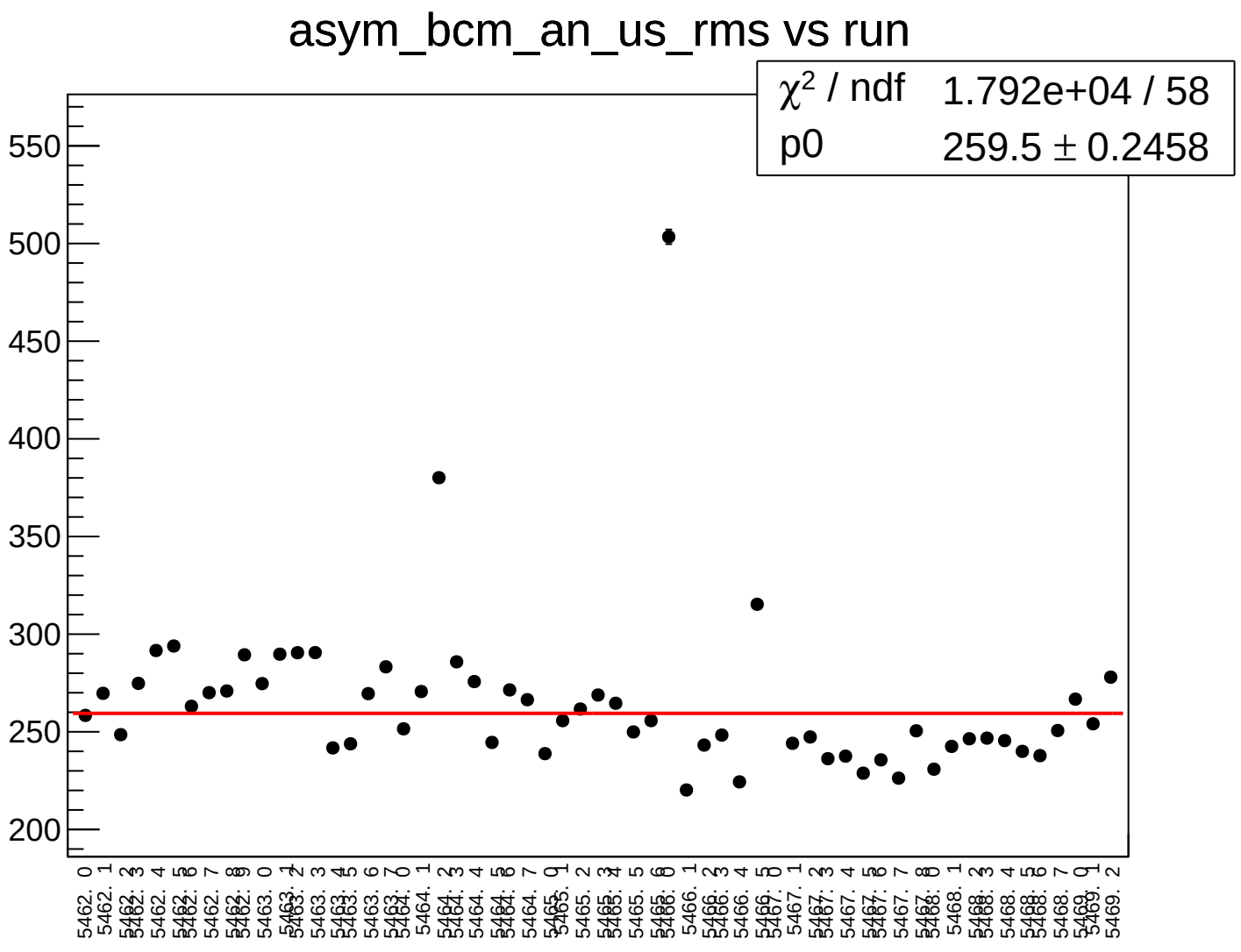

asym_bcm_an_ds3_mean vs run
χ² / ndf 10.06 / 58
p0 −38.82 ± 346.6
pull
Entries 59
Mean −565.9
Std Dev 586.4

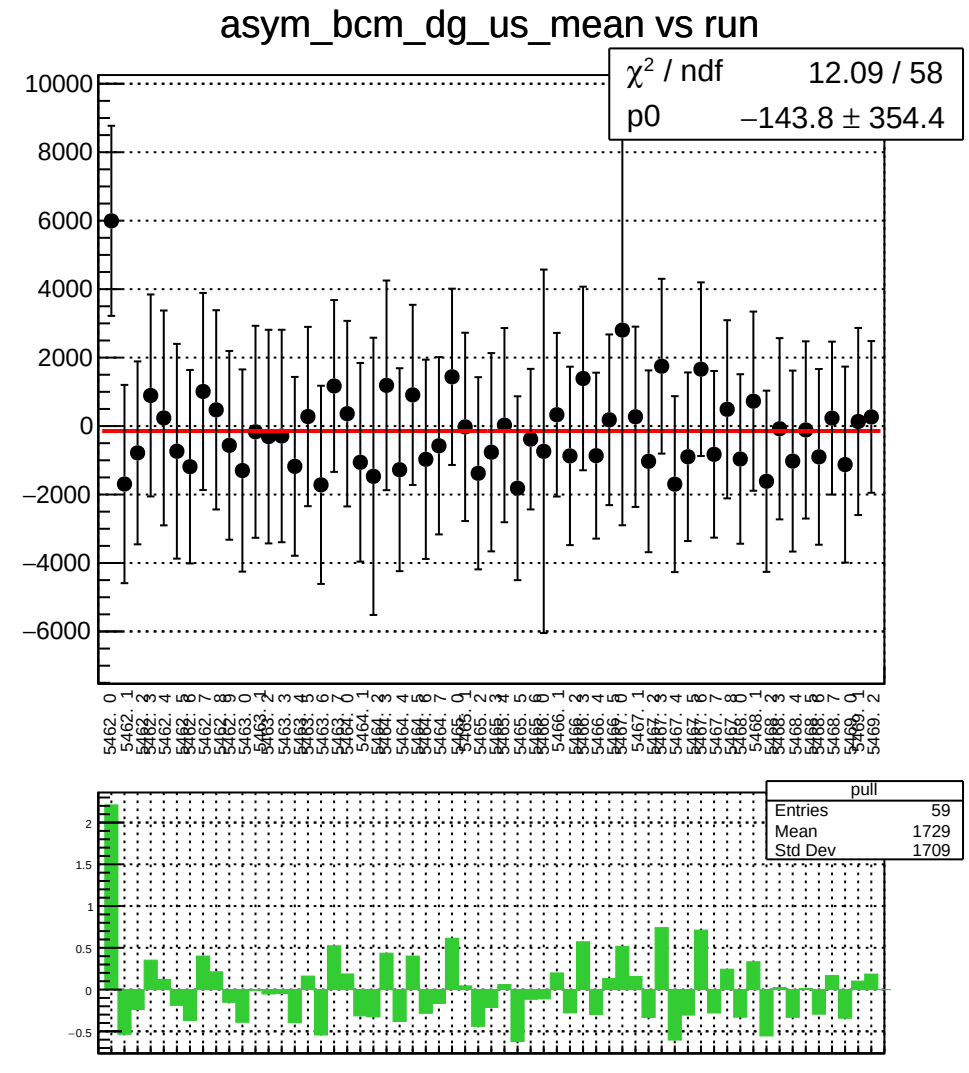

pull1D
Entries 59
Mean 0.0009534
Std Dev 0.4129

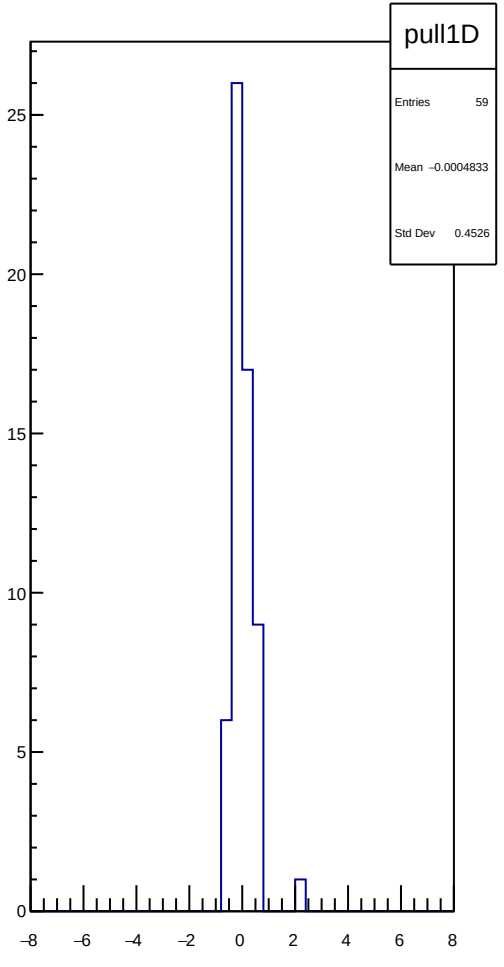

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.803e+04 / 58
p0 258.7 ± 0.2451
550
500
450
400
350
300
250
200

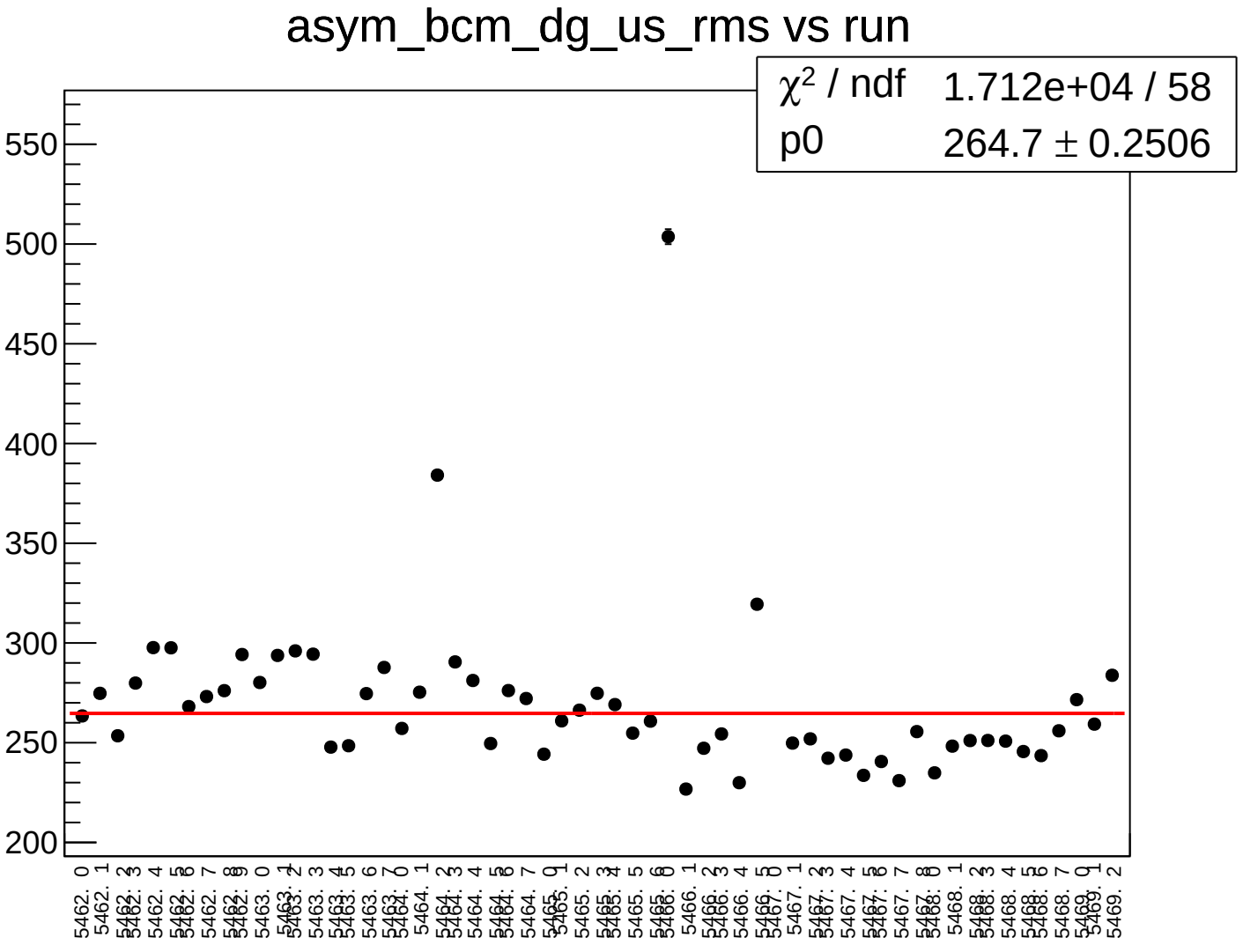

asym_bcm_an_us_mean vs run
χ² / ndf 9.754 / 58
p0 −114.2 ± 347.5
pull
Entries 59
Mean −1696
Std Dev 1718

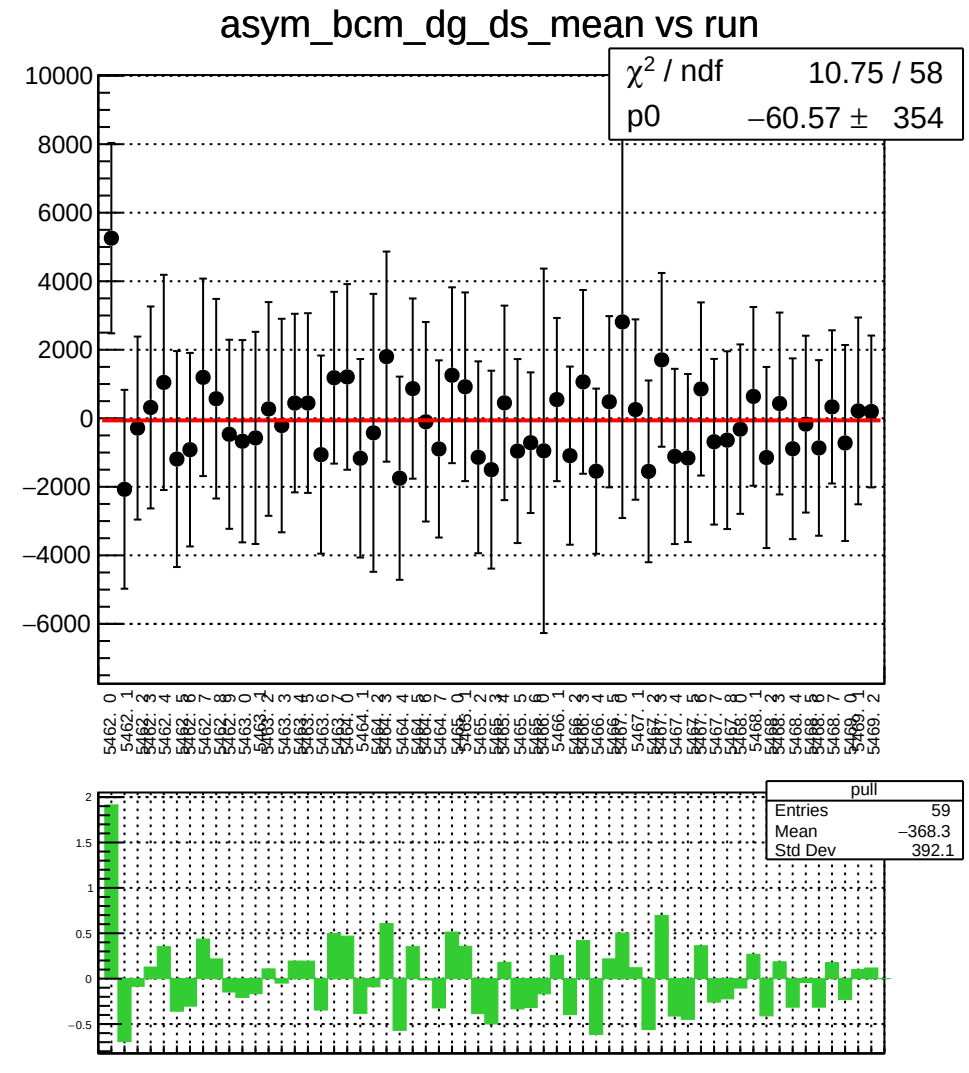

pull1D
Entries 59
Mean 0.0004115
Std Dev 0.4066

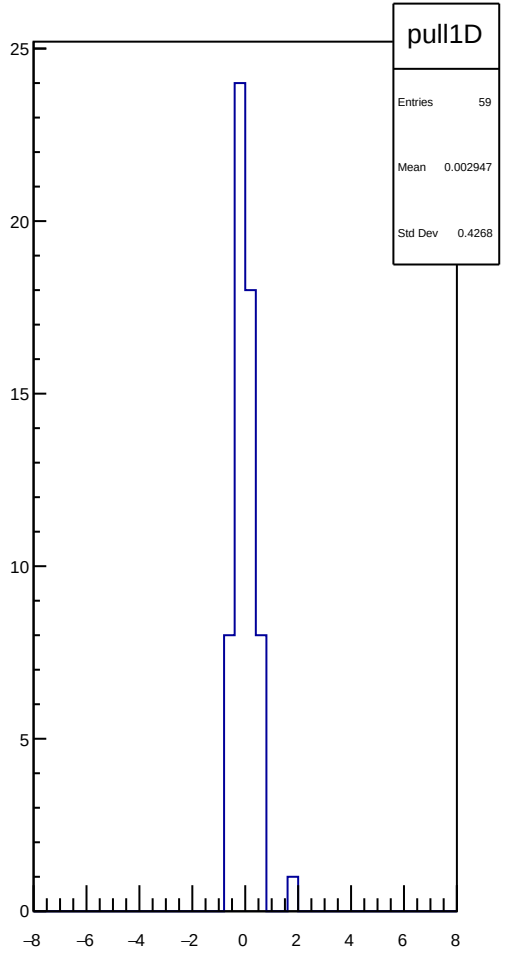

asym_bcm_an_us_rms vs run
χ² / ndf 1.792e+04 / 58
p0 259.5 ± 0.2458
550
500
450
400
350
300
250
200

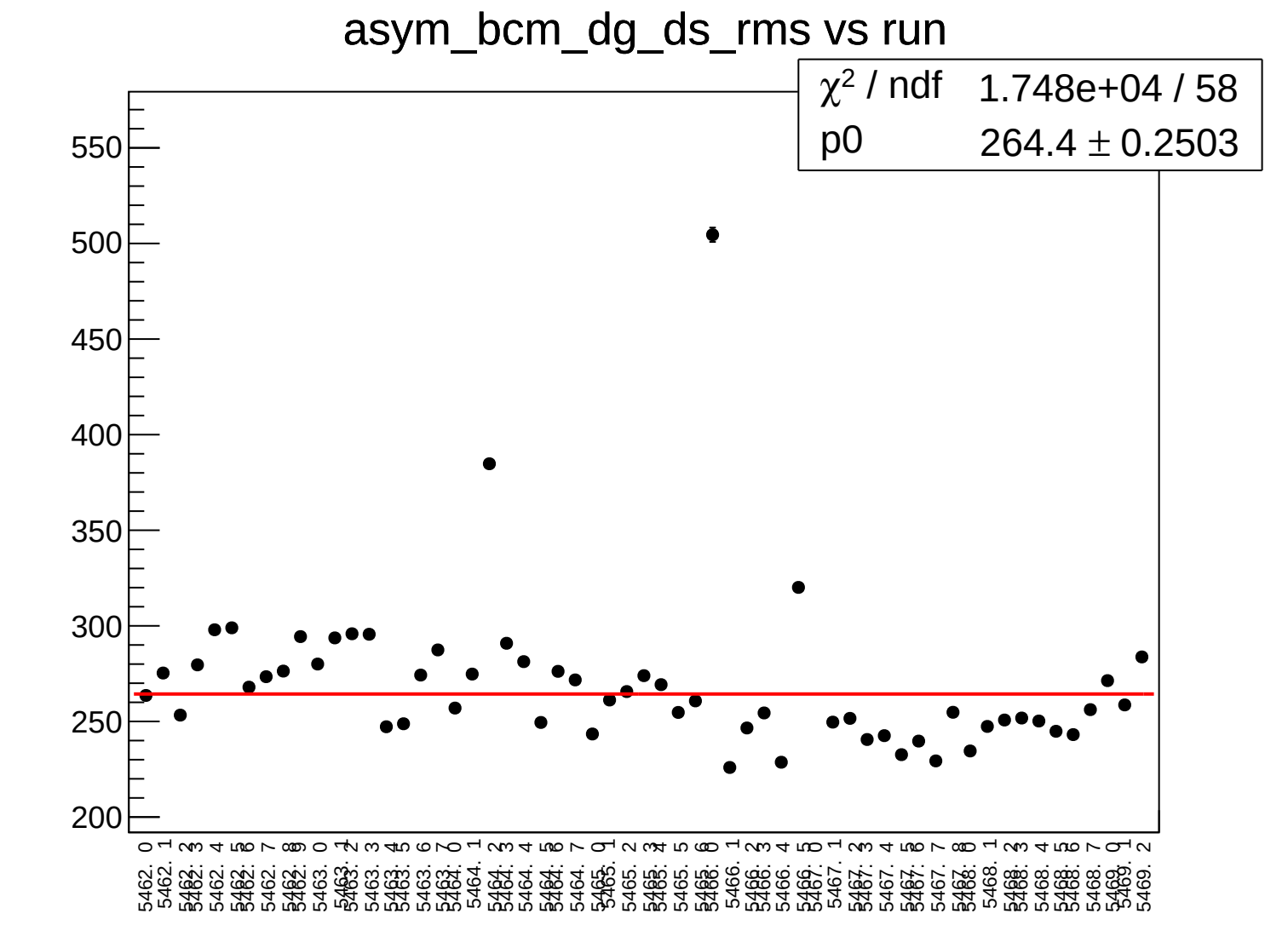

asym_bcm_dg_us_mean vs run
χ² / ndf 12.09 / 58
p0 −143.8 ± 354.4
pull
Entries 59
Mean 1729
Std Dev 1709

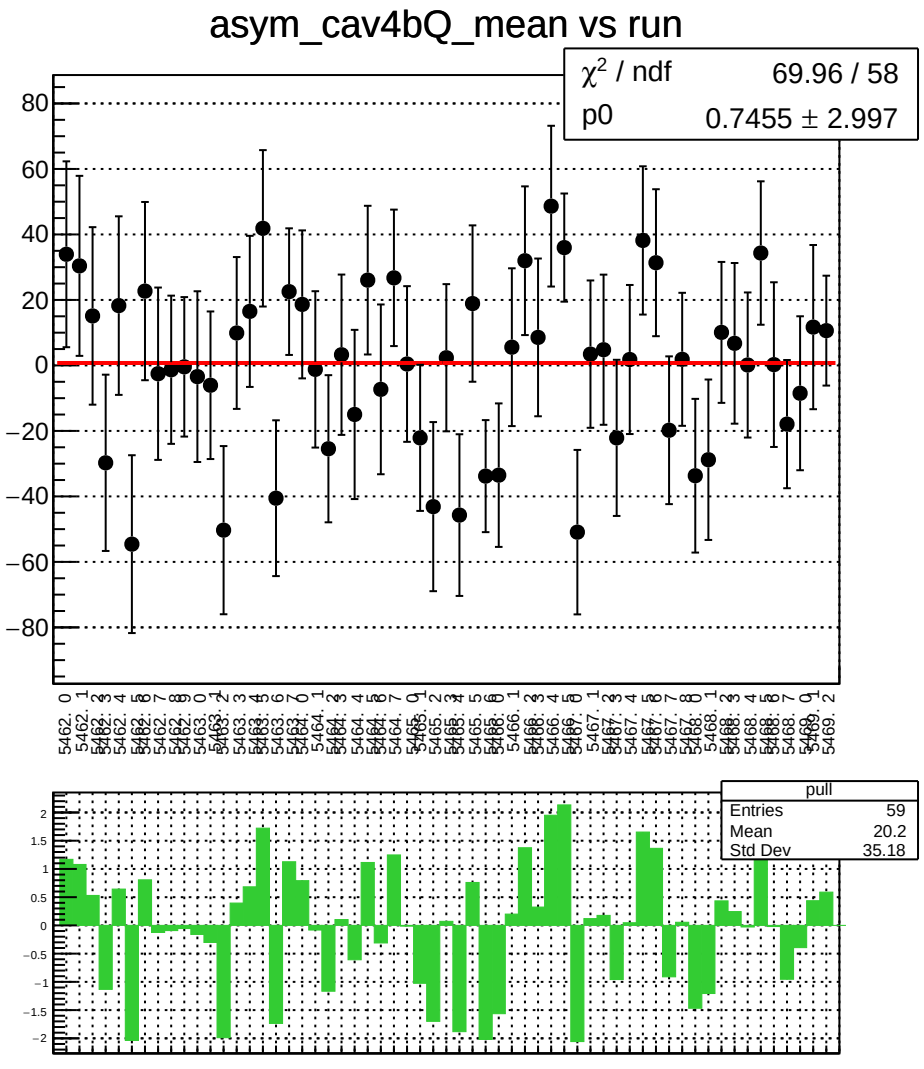

pull1D
Entries 59
Mean −0.0004833
Std Dev 0.4526

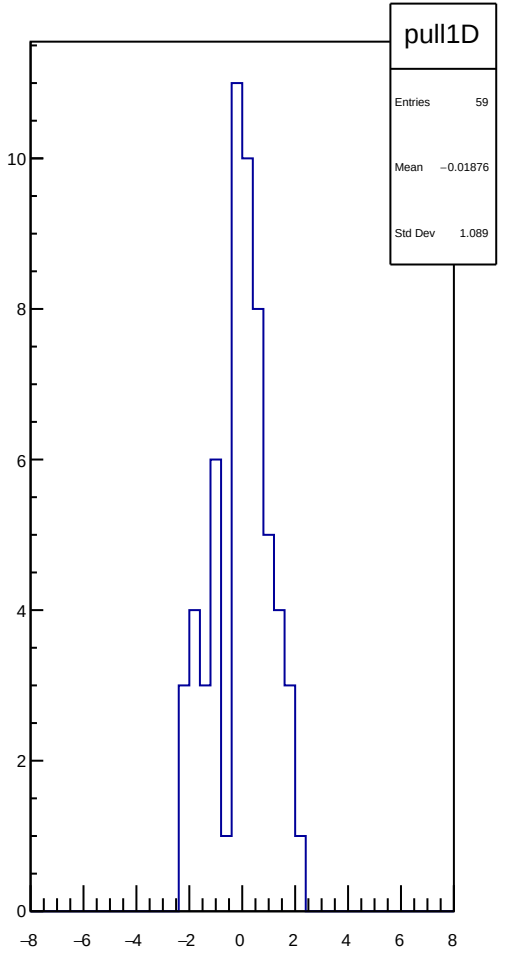

asym_bcm_dg_us_rms vs run
χ² / ndf 1.712e+04 / 58
p0 264.7 ± 0.2506
550
500
450
400
350
300
250
200

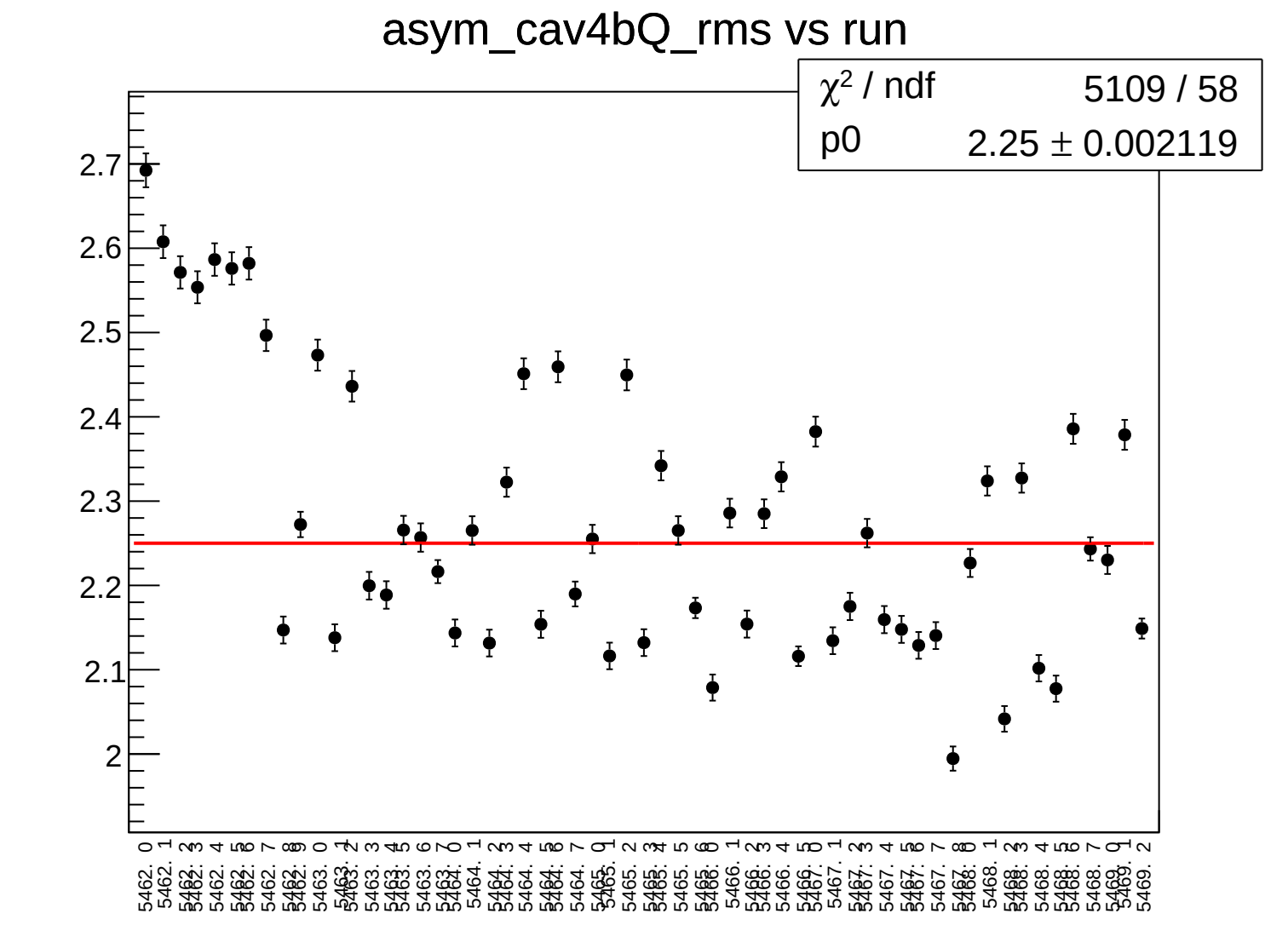

asym_bcm_dg_ds_mean vs run
χ² / ndf 10.75 / 58
p0 −60.57 ± 354
pull
Entries 59
Mean −368.3
Std Dev 392.1

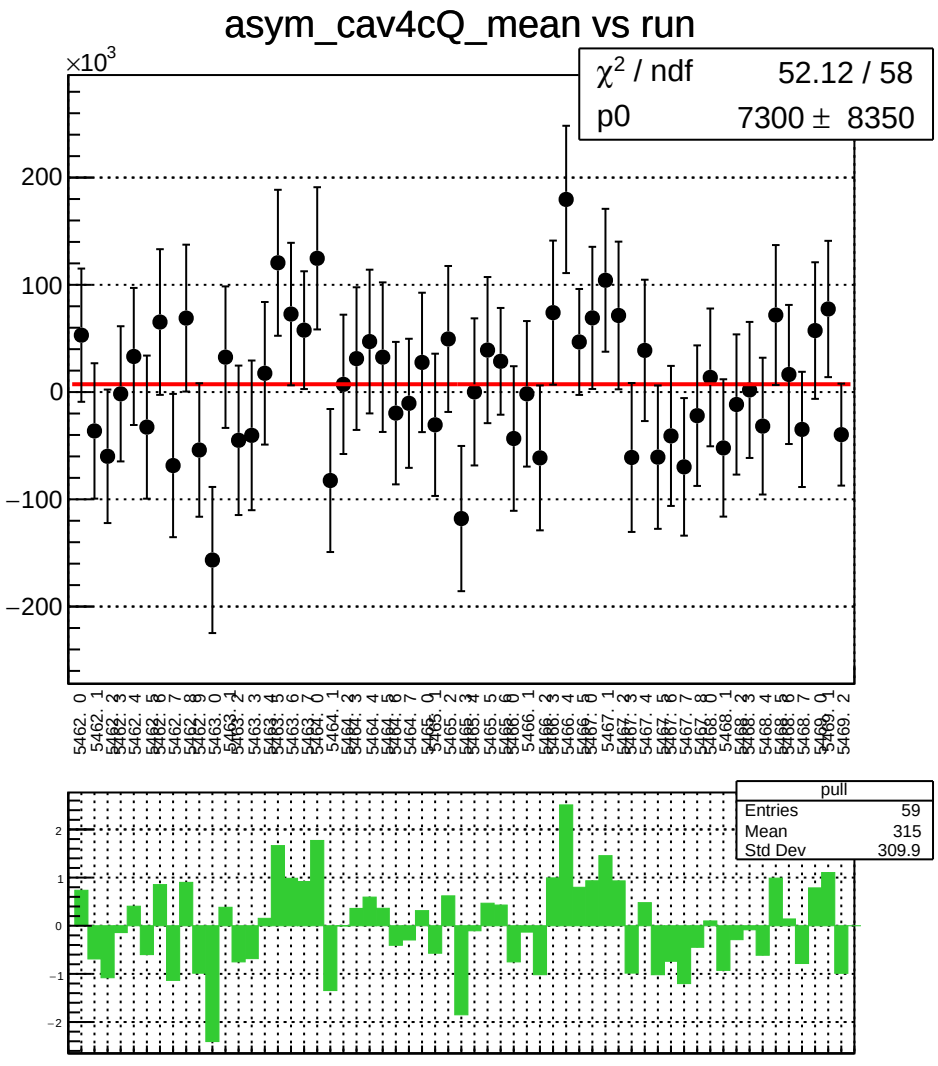

pull1D
Entries 59
Mean 0.002947
Std Dev 0.4268

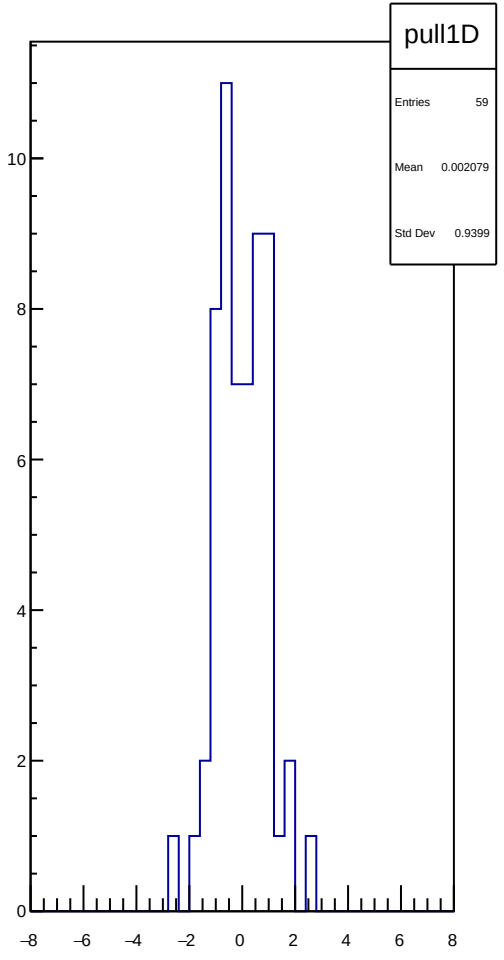

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.748e+04 / 58
p0 264.4 ± 0.2503
550
500
450
400
350
300
250
200

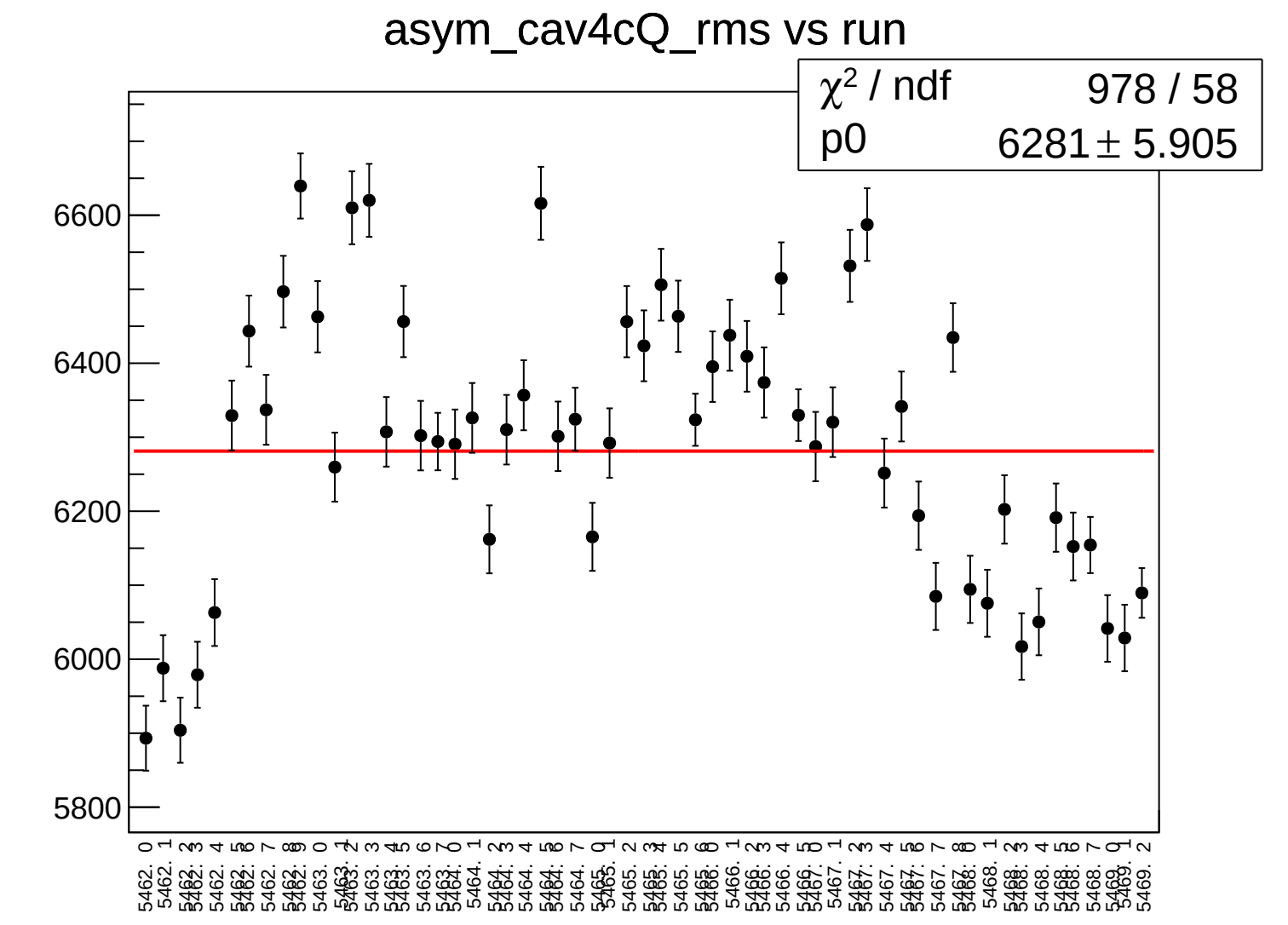

asym_cav4bQ_mean vs run
χ² / ndf 69.96 / 58
p0 0.7455 ± 2.997
pull
Entries 59
Mean 20.2
Std Dev 35.18

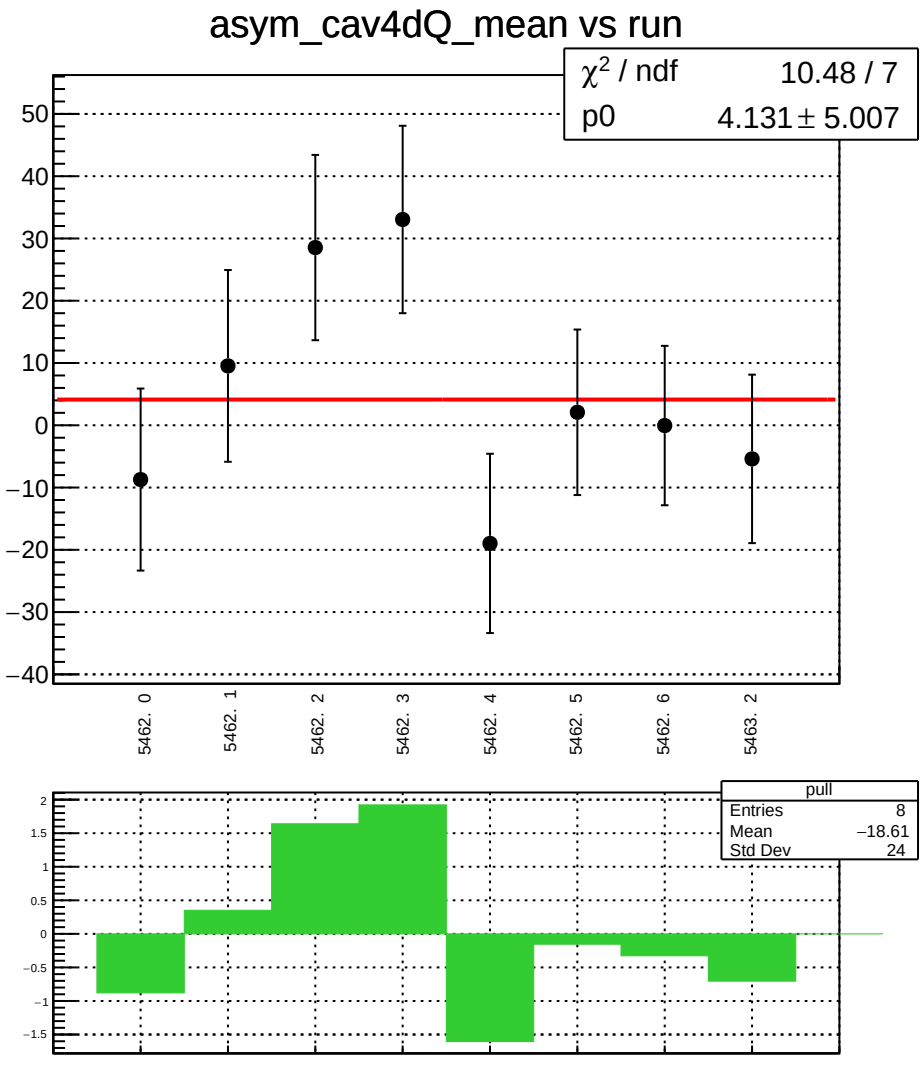

pull1D
Entries 59
Mean −0.01876
Std Dev 1.089

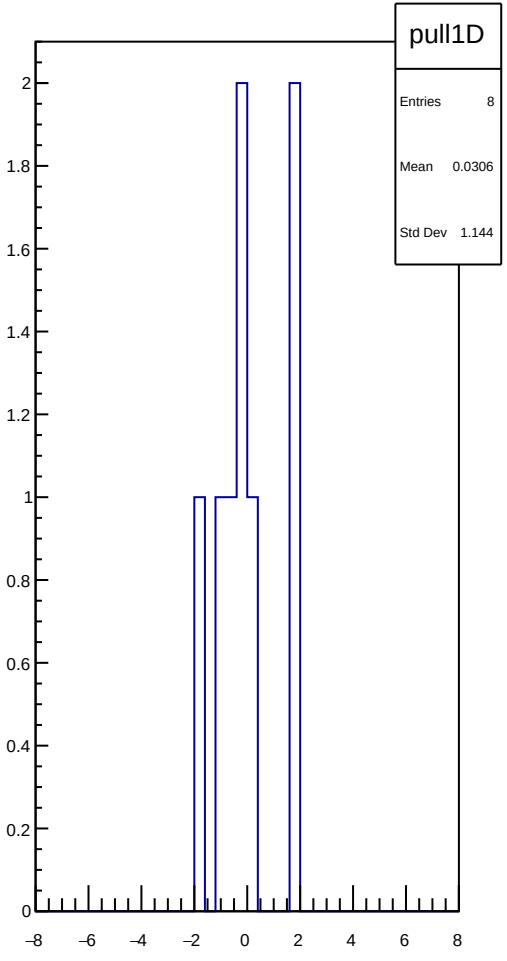

asym_cav4bQ_rms vs run
χ² / ndf 5109 / 58
p0 2.25 ± 0.002119
2.7
2.6
2.5
2.4
2.3
2.2
2.1
2

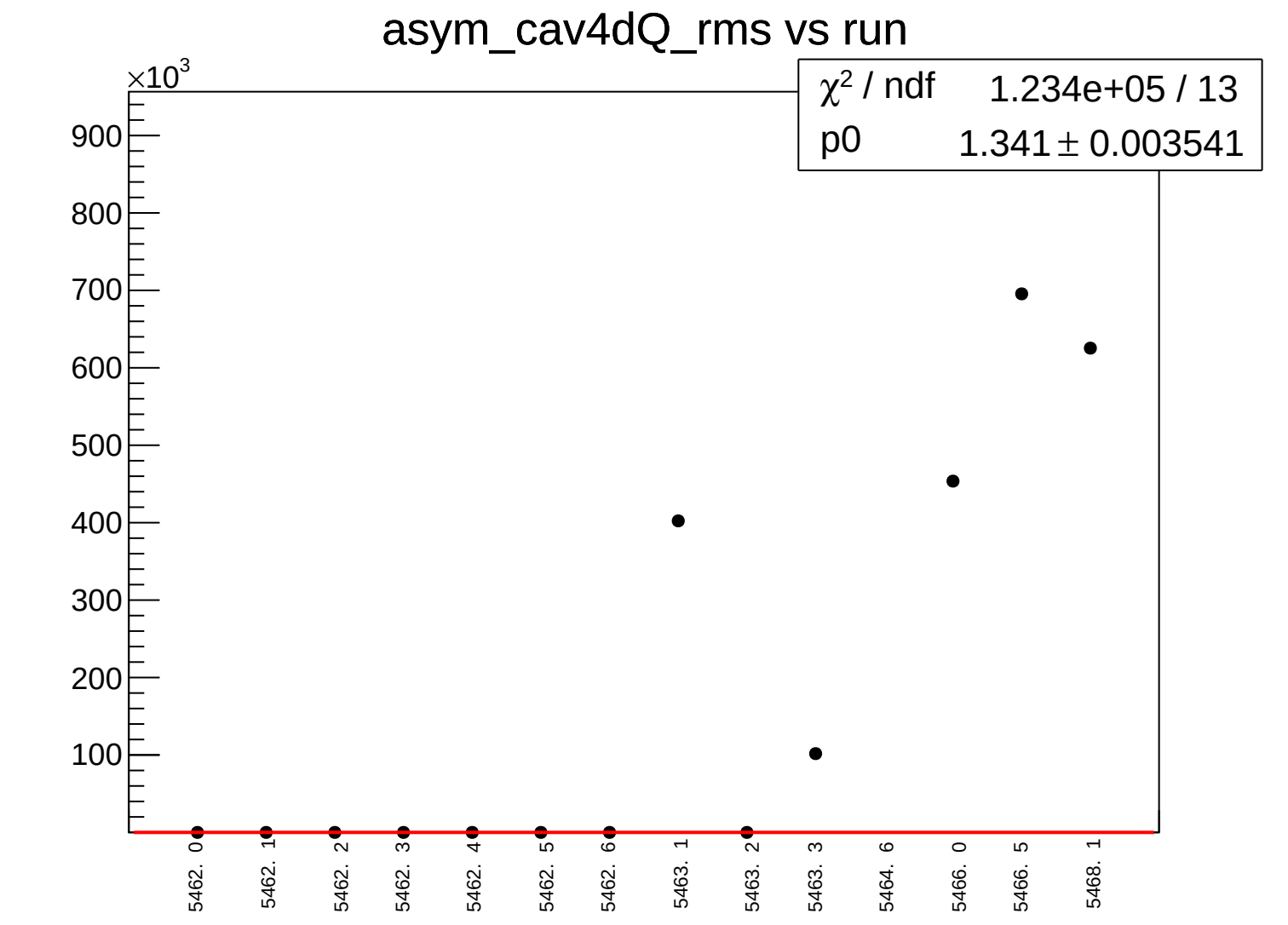

asym_cav4cQ_mean vs run
×10^3
χ^2 / ndf 52.12 / 58
p0 7300 ± 8350
200
100
0
−100
−200
pull
Entries 59
Mean 315
Std Dev 309.9
2
1
0
−1
−2

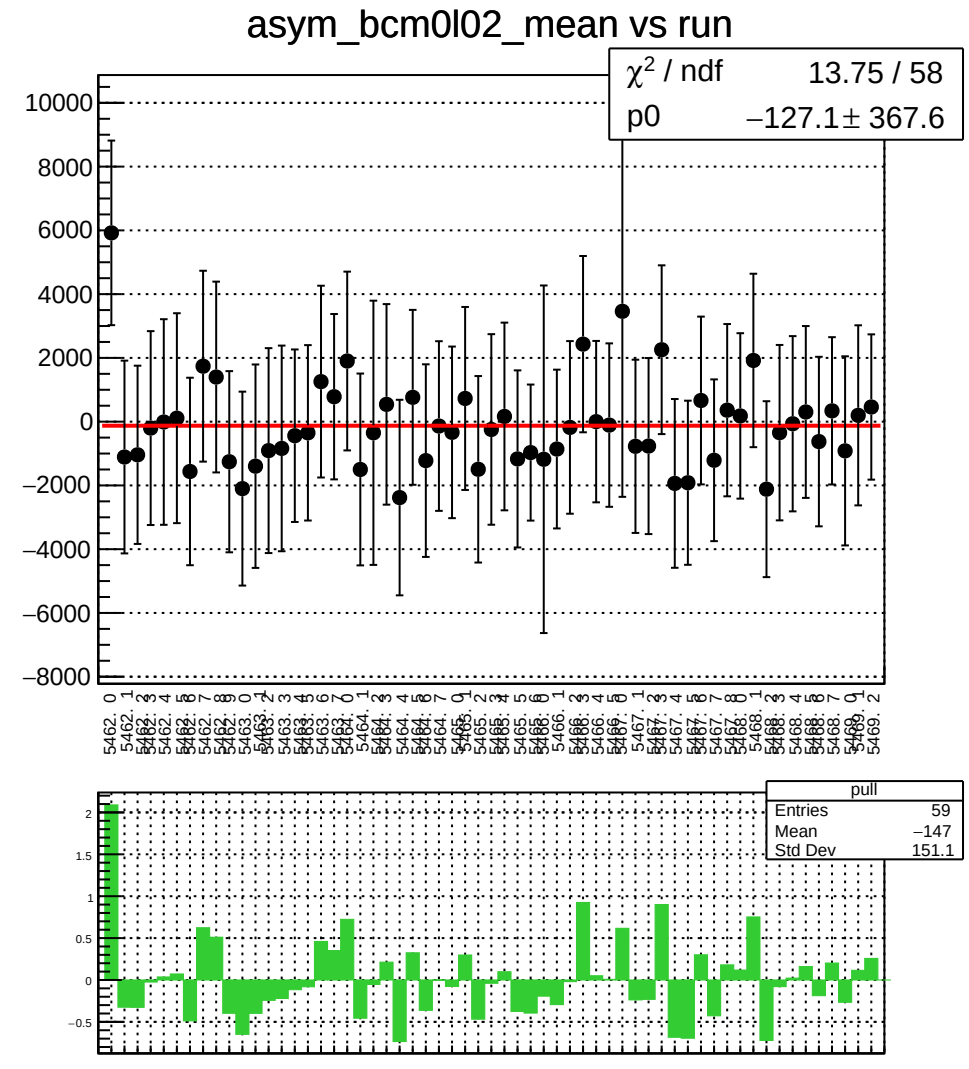

pull1D
Entries 59
Mean 0.002079
Std Dev 0.9399
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

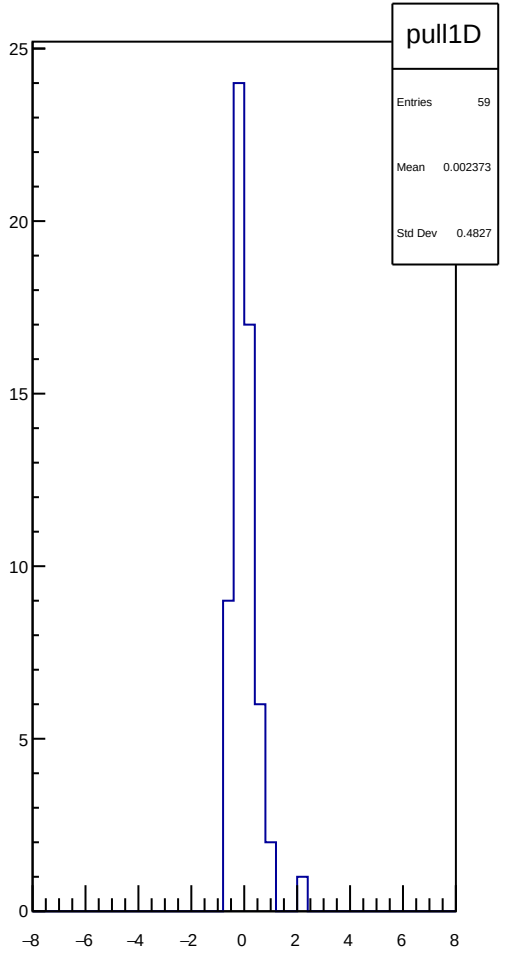

asym_cav4cQ_rms vs run
χ² / ndf 978 / 58
p0 6281 ± 5.905
6600
6400
6200
6000
5800

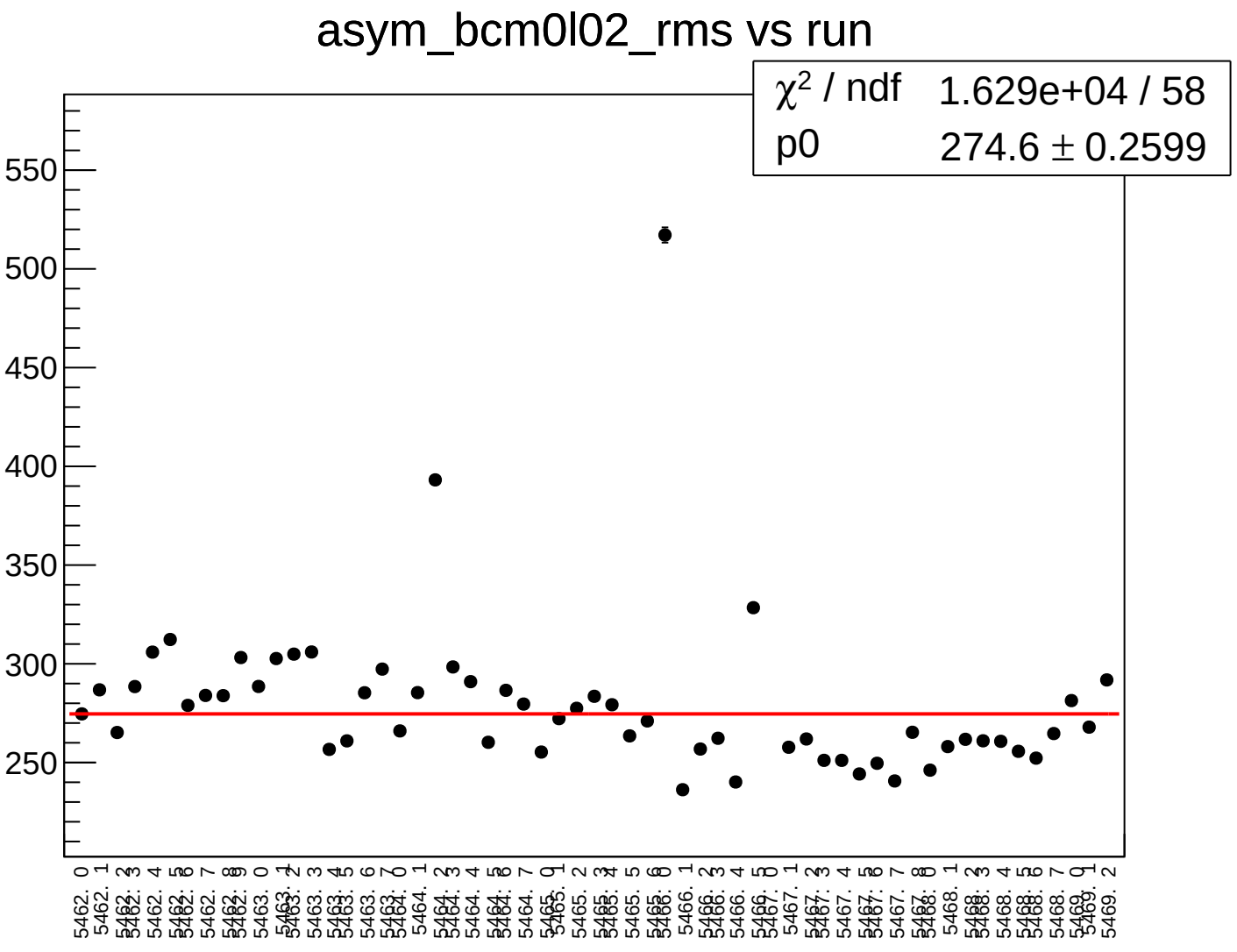

asym_cav4dQ_mean vs run
χ² / ndf 10.48 / 7
p0 4.131 ± 5.007
50
40
30
20
10
0
−10
−20
−30
−40
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5463. 2
pull
Entries 8
Mean −18.61
Std Dev 24
2
1.5
1
0.5
0
−0.5
−1
−1.5

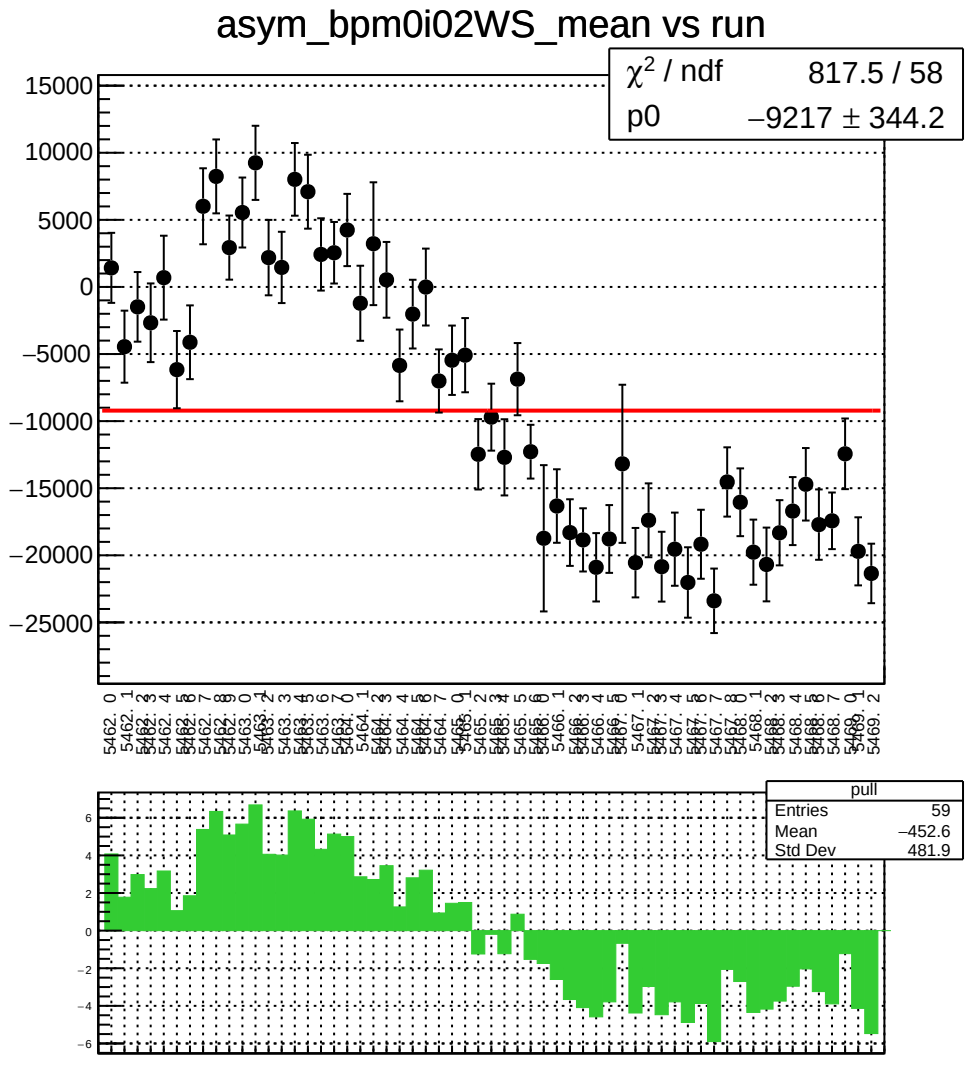

pull1D
Entries 8
Mean 0.0306
Std Dev 1.144
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

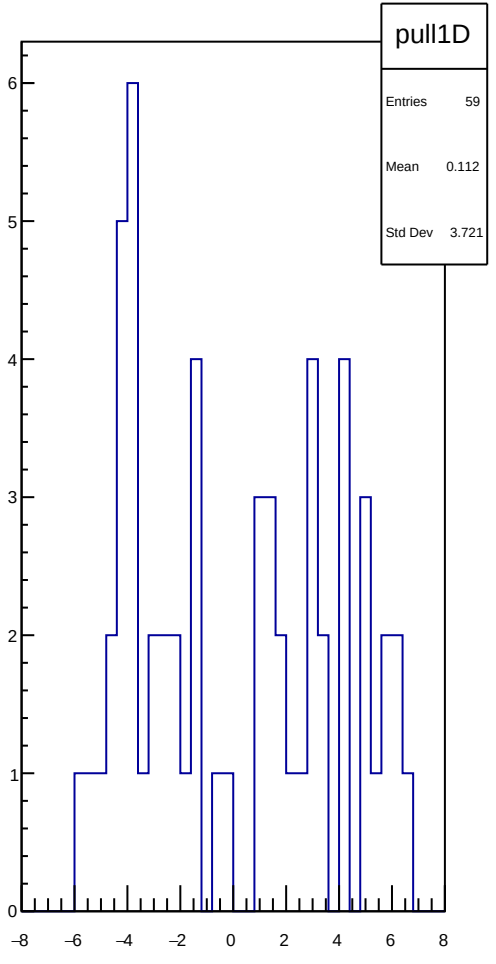

asym_cav4dQ_rms vs run
×10^3
900
800
700
600
500
400
300
200
100
χ² / ndf 1.234e+05 / 13
p0 1.341 ± 0.003541
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5463. 1
5463. 2
5463. 3
5464. 6
5466. 0
5466. 5
5468. 1

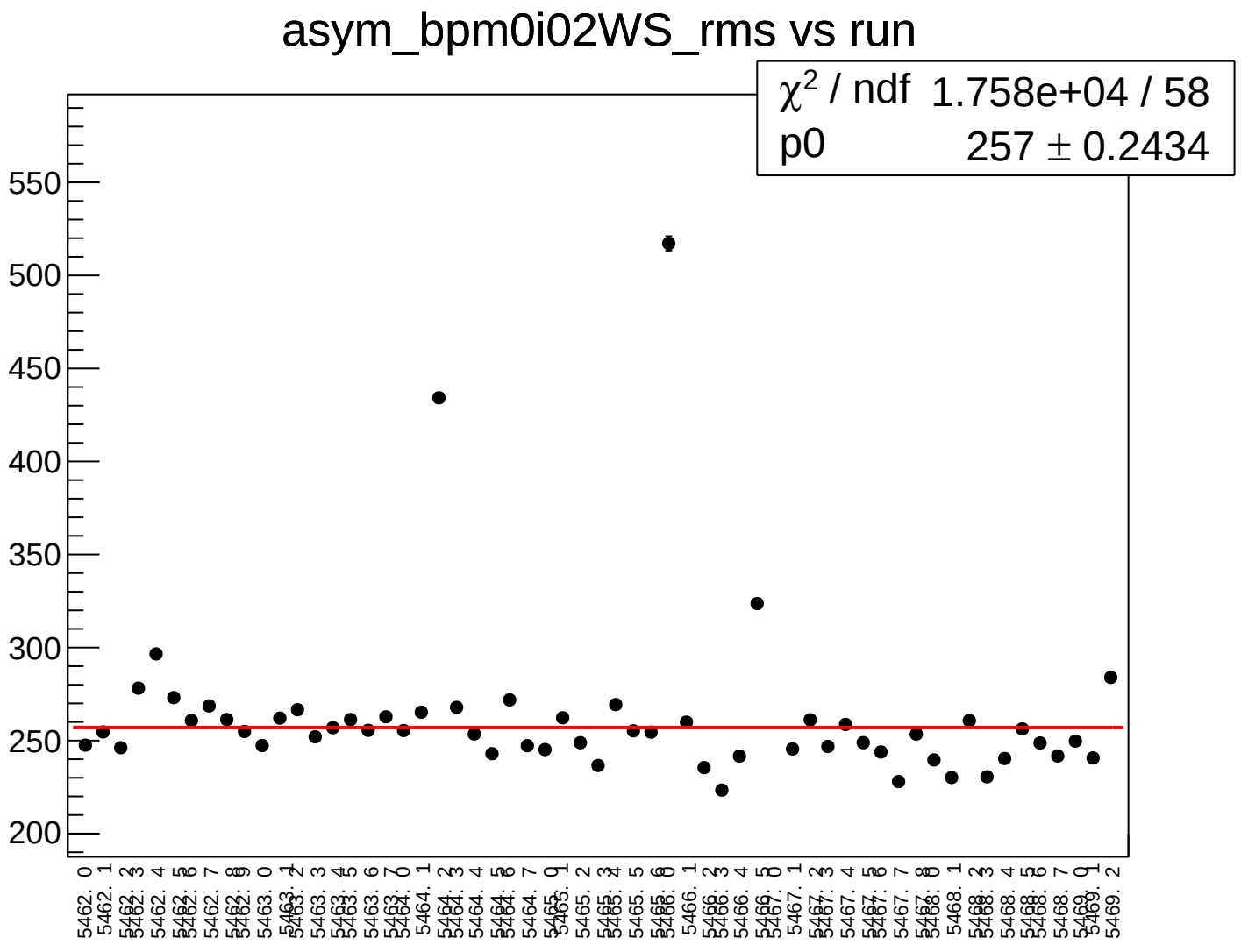

asym_bcm0l02_mean vs run
χ² / ndf 13.75 / 58
p0 −127.1± 367.6
pull
Entries 59
Mean −147
Std Dev 151.1

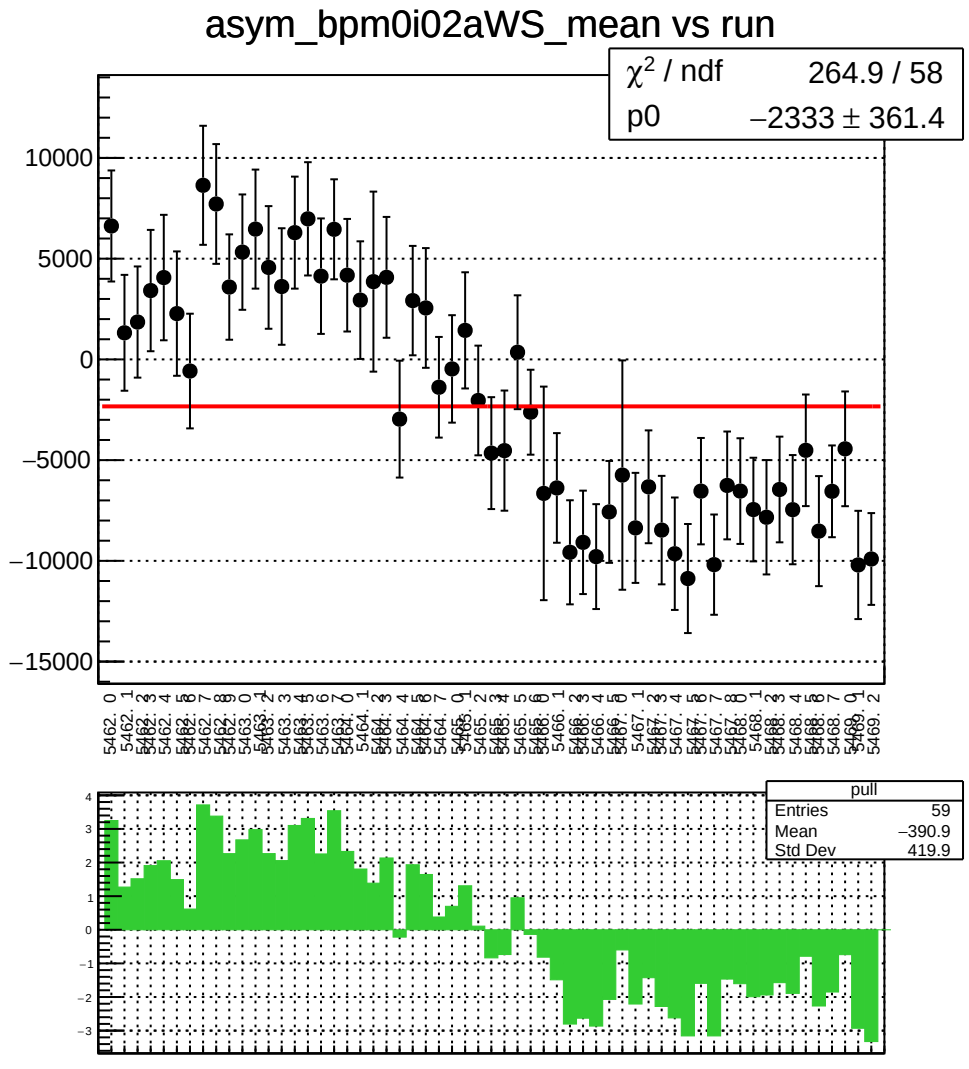

pull1D
Entries 59
Mean 0.002373
Std Dev 0.4827

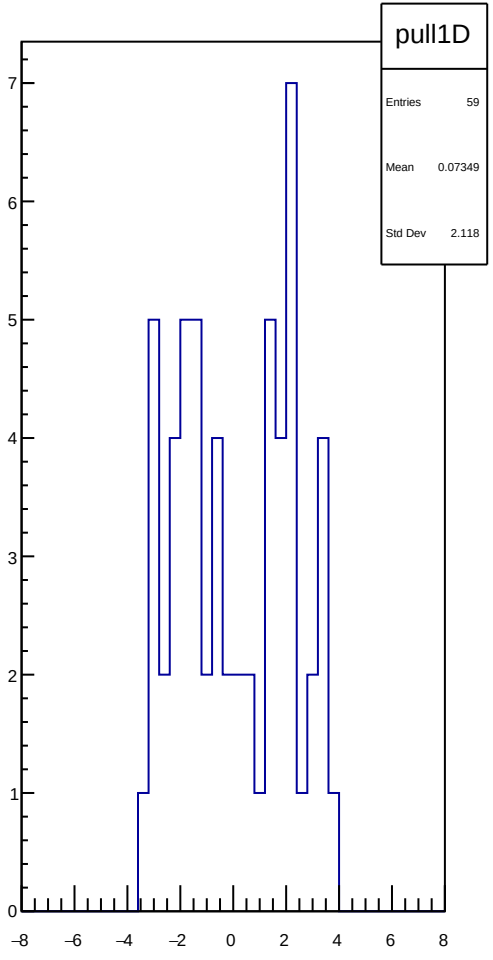

asym_bcm0l02_rms vs run
χ² / ndf 1.629e+04 / 58
p0 274.6 ± 0.2599
550
500
450
400
350
300
250

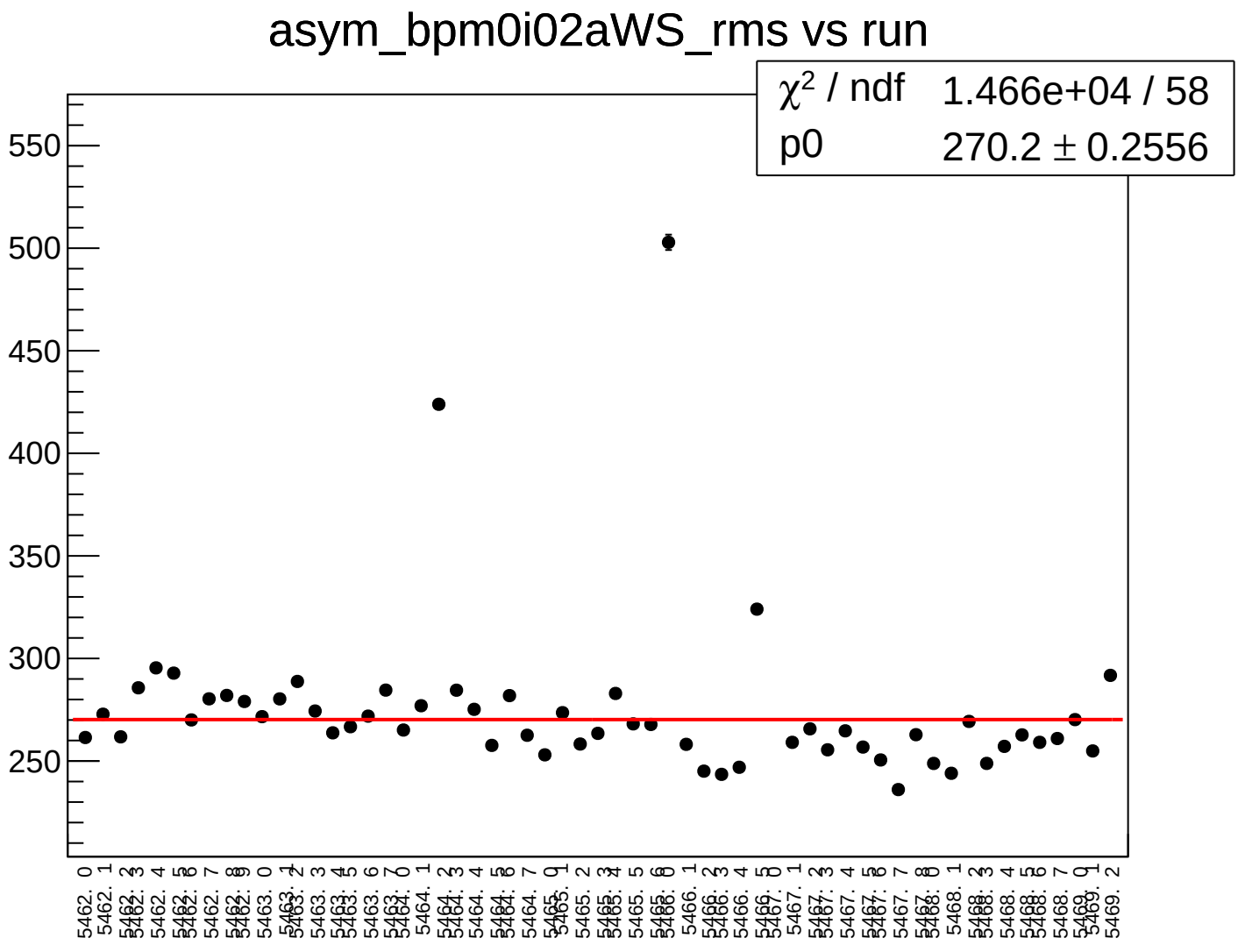

asym_bpm0i02WS_mean vs run
χ² / ndf 817.5 / 58
p0 −9217 ± 344.2
pull
Entries 59
Mean −452.6
Std Dev 481.9

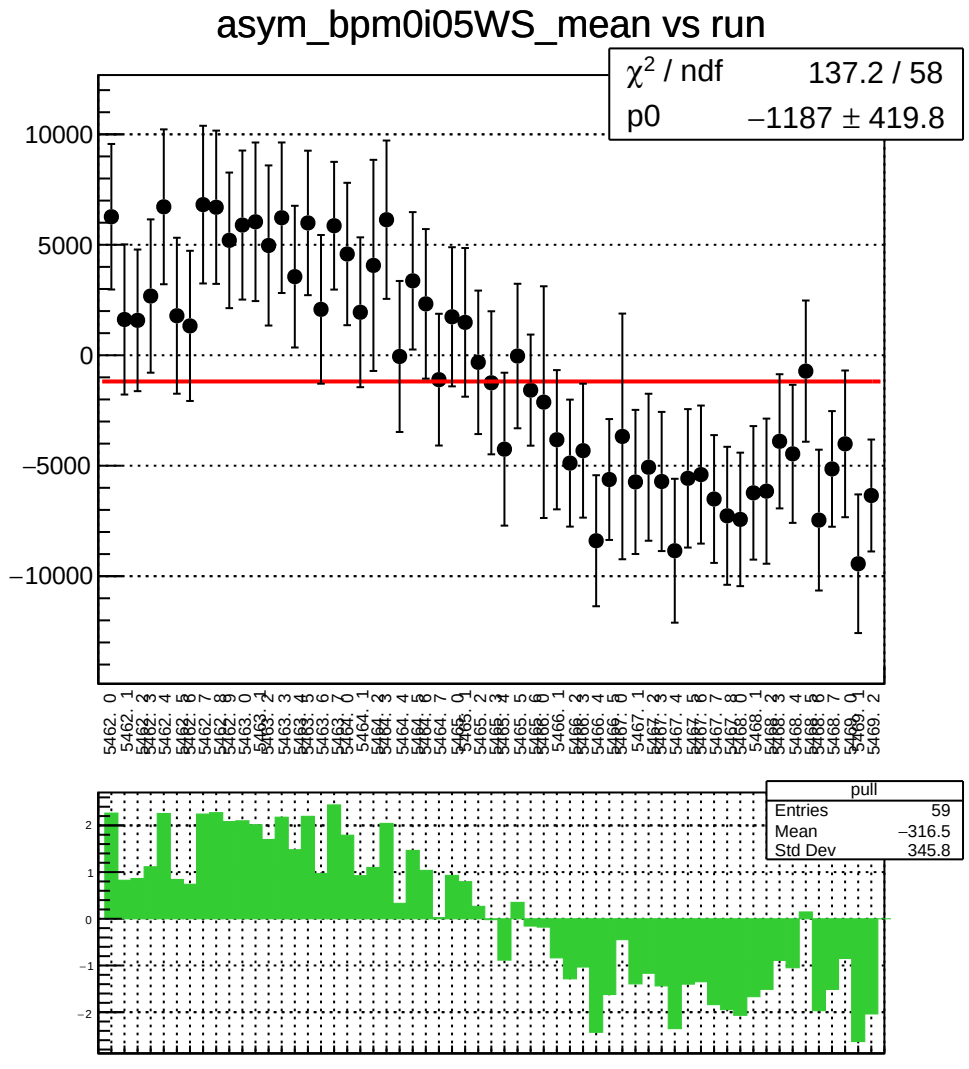

pull1D
Entries 59
Mean 0.112
Std Dev 3.721

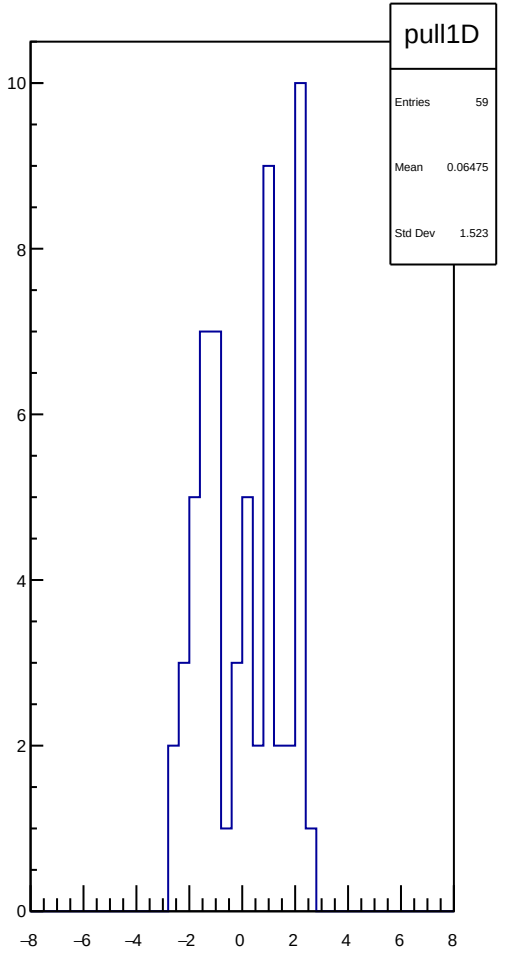

asym_bpm0i02WS_rms vs run
χ² / ndf 1.758e+04 / 58
p0 257 ± 0.2434
550
500
450
400
350
300
250
200

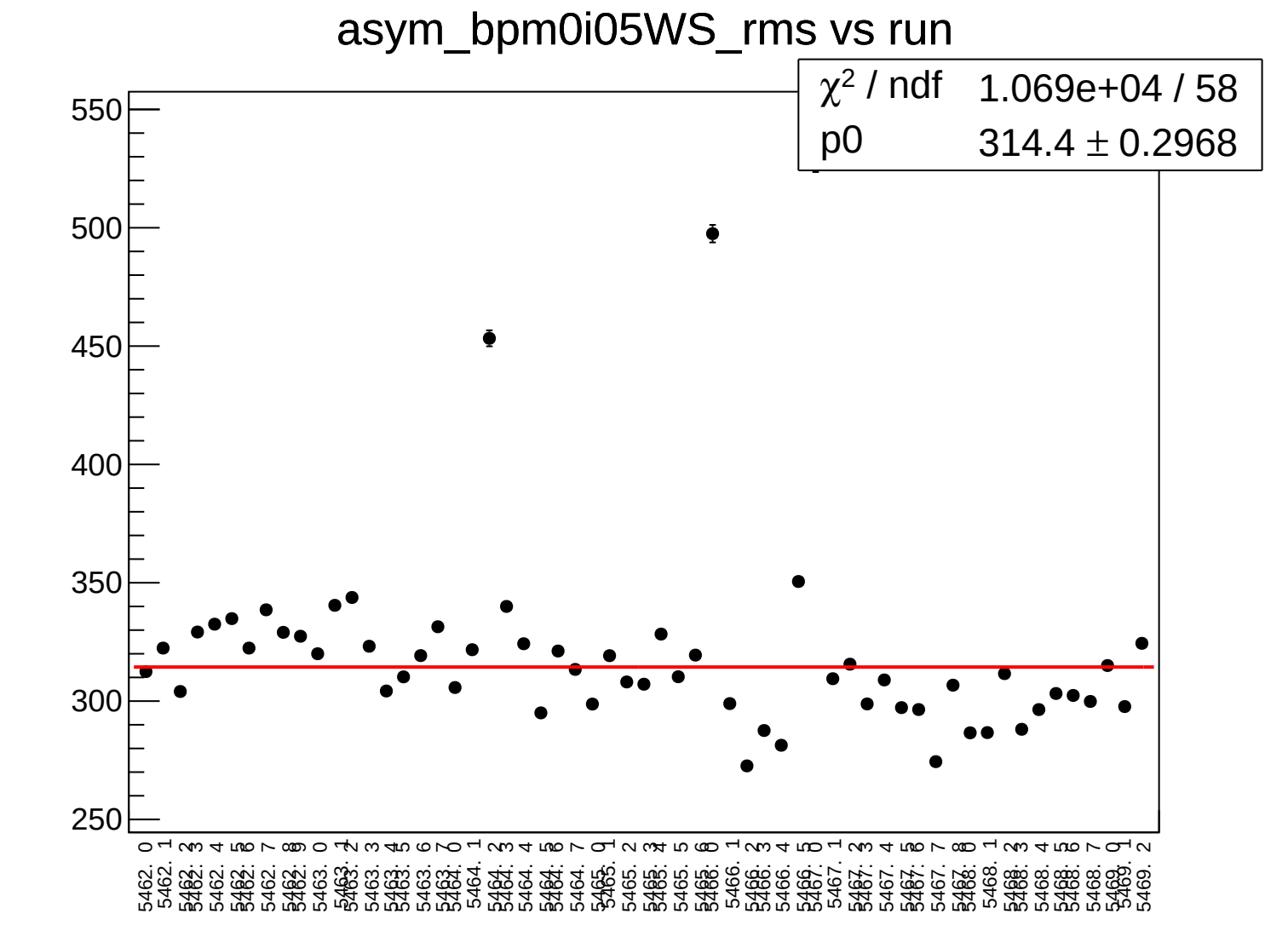

asym_bpm0i02aWS_mean vs run
χ² / ndf 264.9 / 58
p0 −2333 ± 361.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean −390.9
Std Dev 419.9
4
3
2
1
0
−1
−2
−3

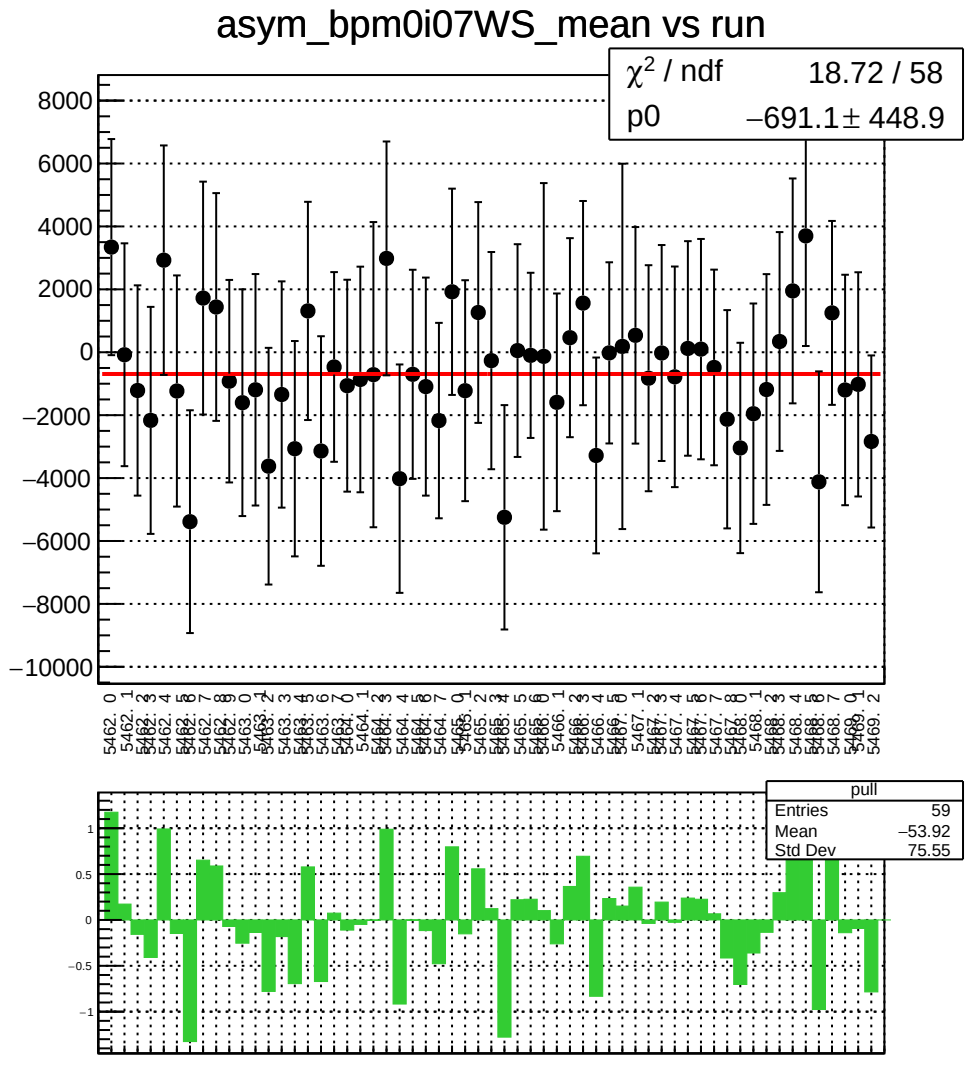

pull1D
Entries 59
Mean 0.07349
Std Dev 2.118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

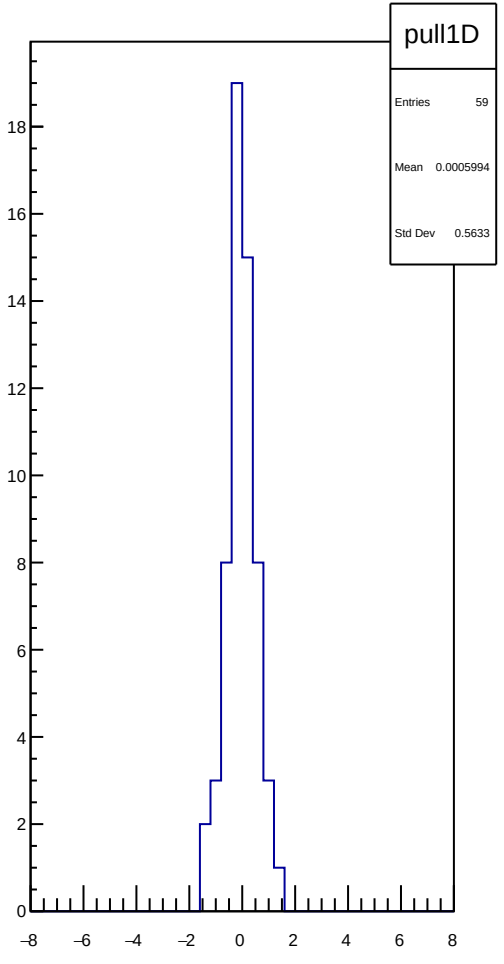

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.466e+04 / 58
p0 270.2 ± 0.2556
550
500
450
400
350
300
250

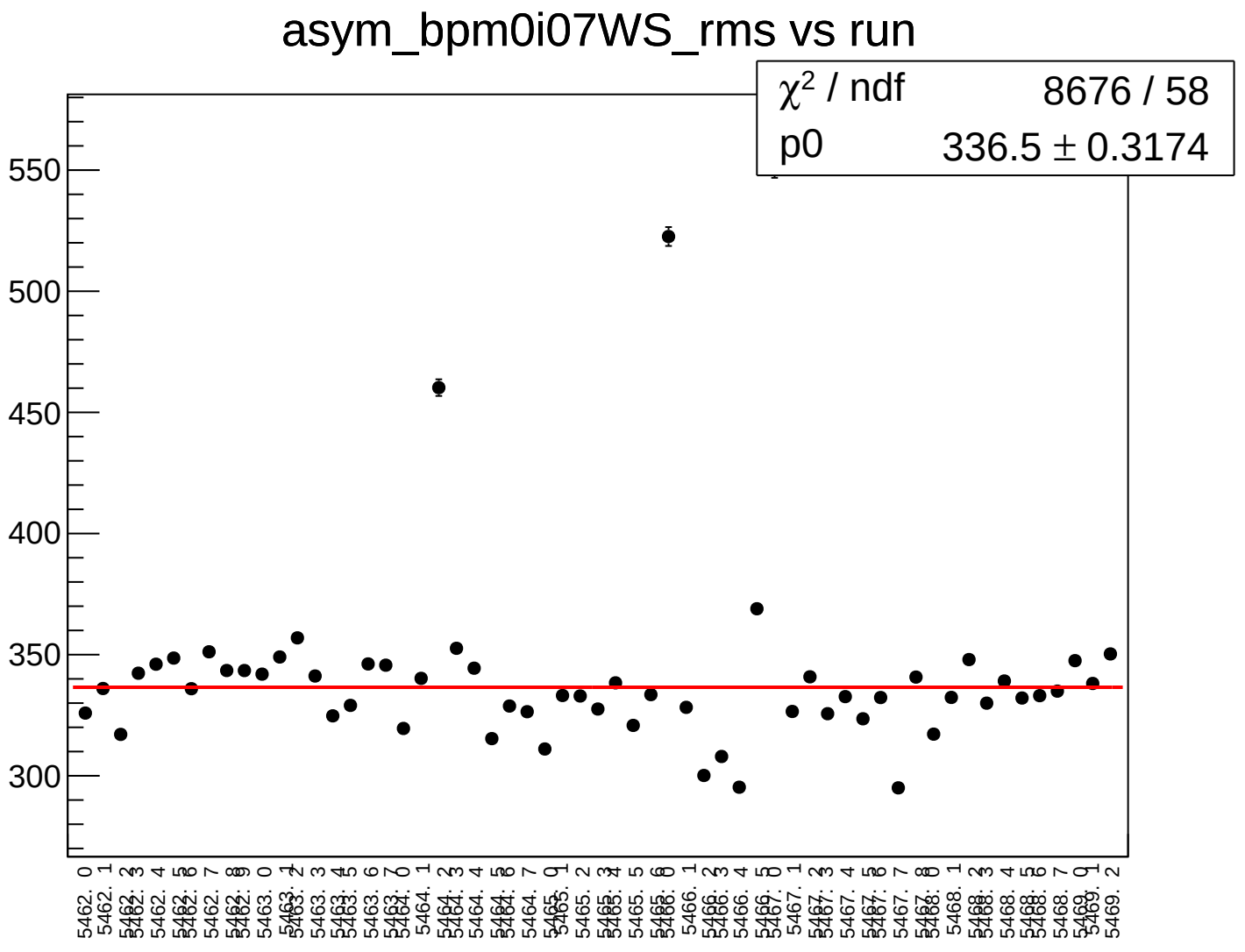

asym_bpm0i05WS_mean vs run
χ^2 / ndf 137.2 / 58
p0 −1187 ± 419.8
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −316.5
Std Dev 345.8
2
1
0
−1
−2

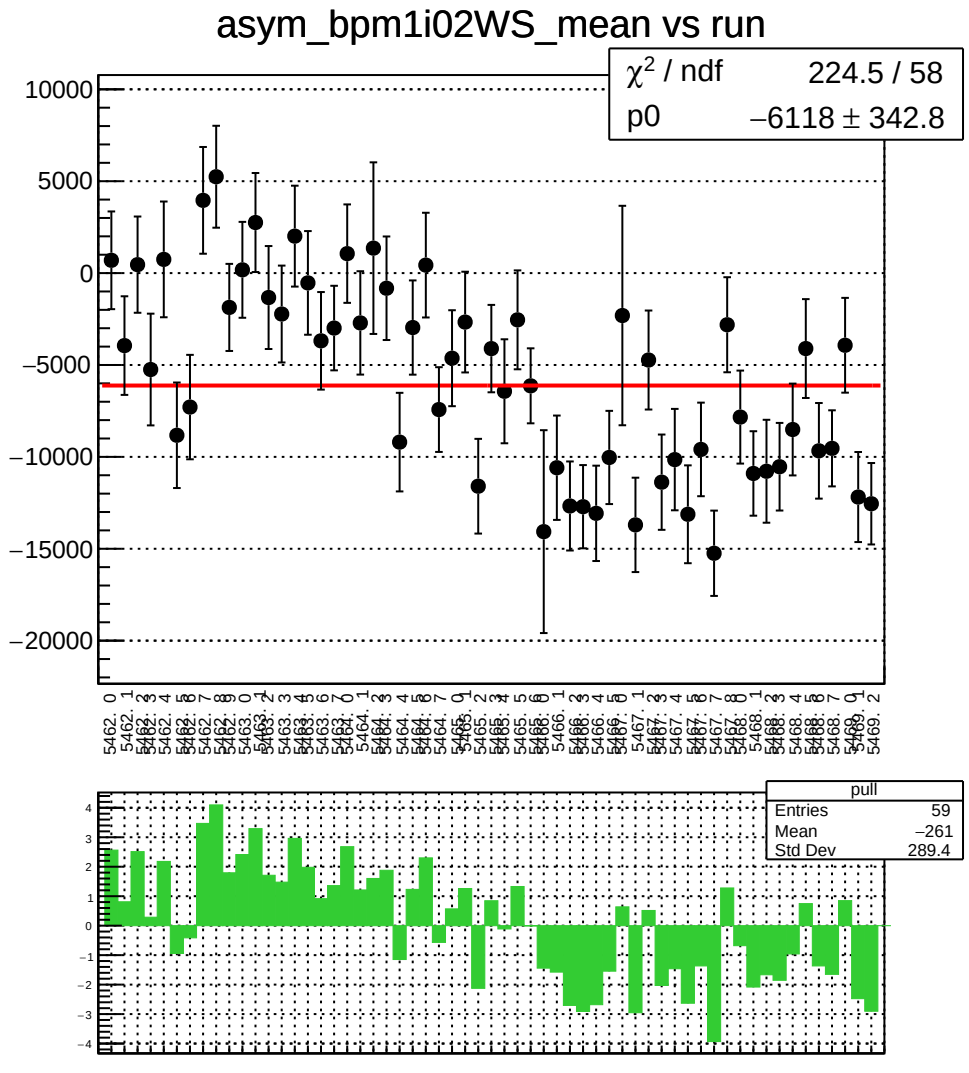

pull1D
Entries 59
Mean 0.06475
Std Dev 1.523
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

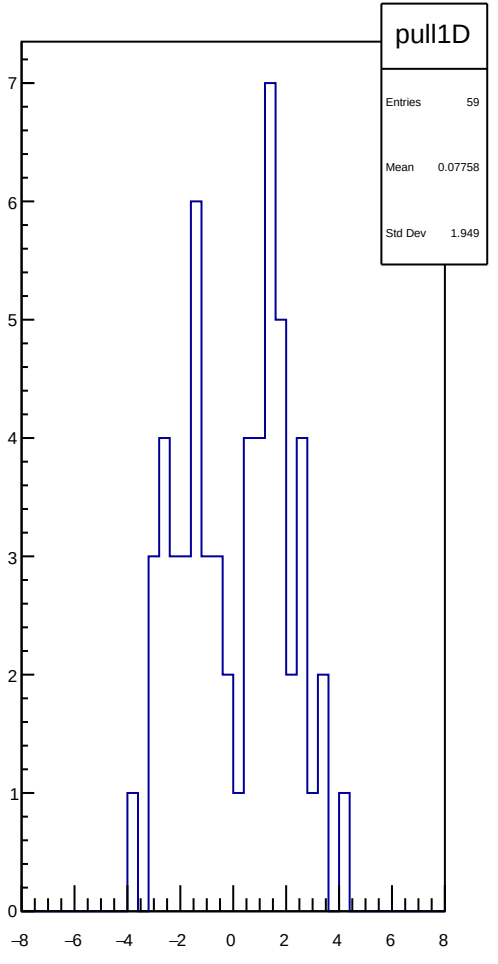

asym_bpm0i05WS_rms vs run
χ² / ndf 1.069e+04 / 58
p0 314.4 ± 0.2968
550
500
450
400
350
300
250

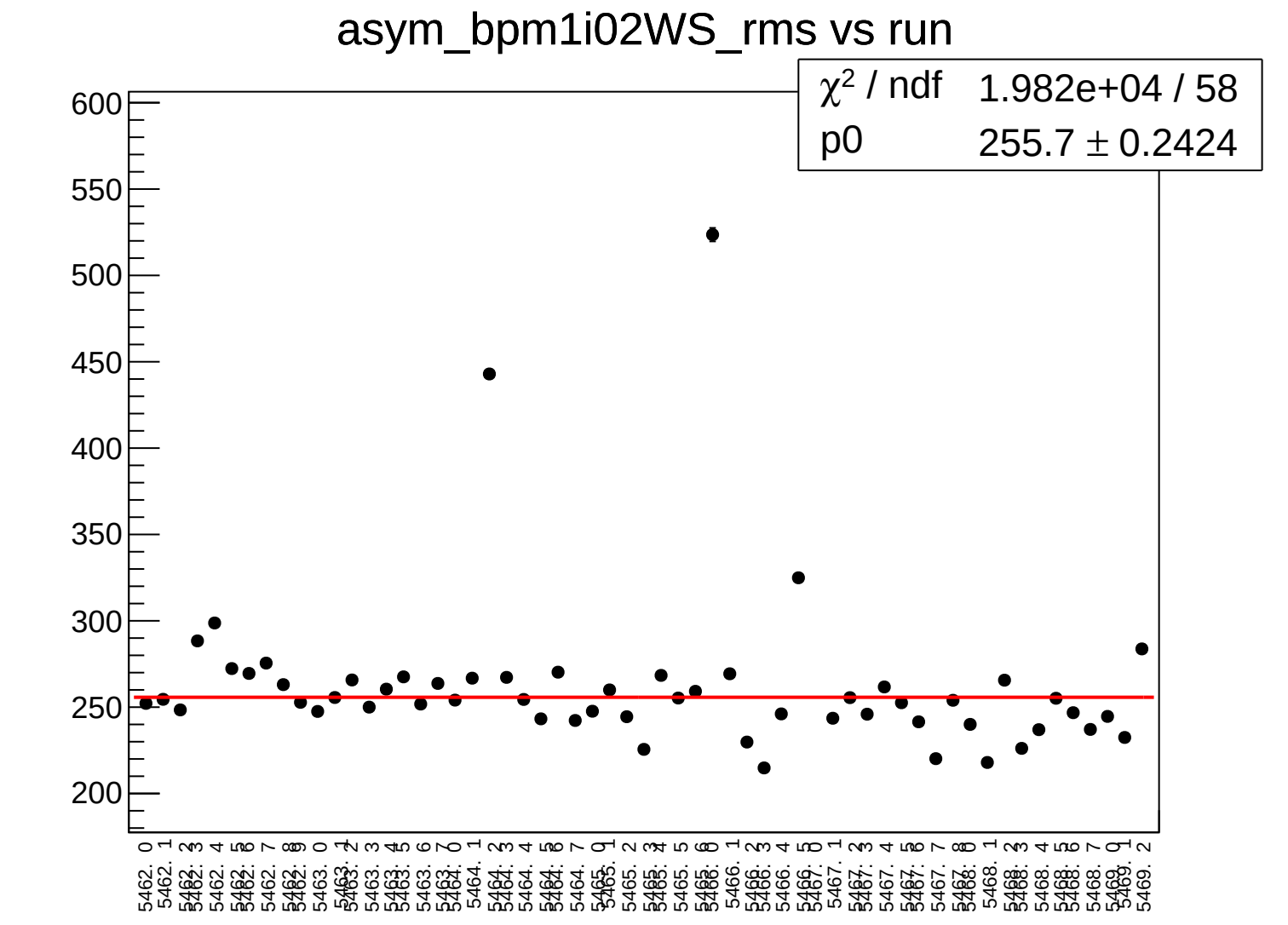

asym_bpm0i07WS_mean vs run
χ² / ndf 18.72 / 58
p0 −691.1 ± 448.9
pull
Entries 59
Mean −53.92
Std Dev 75.55

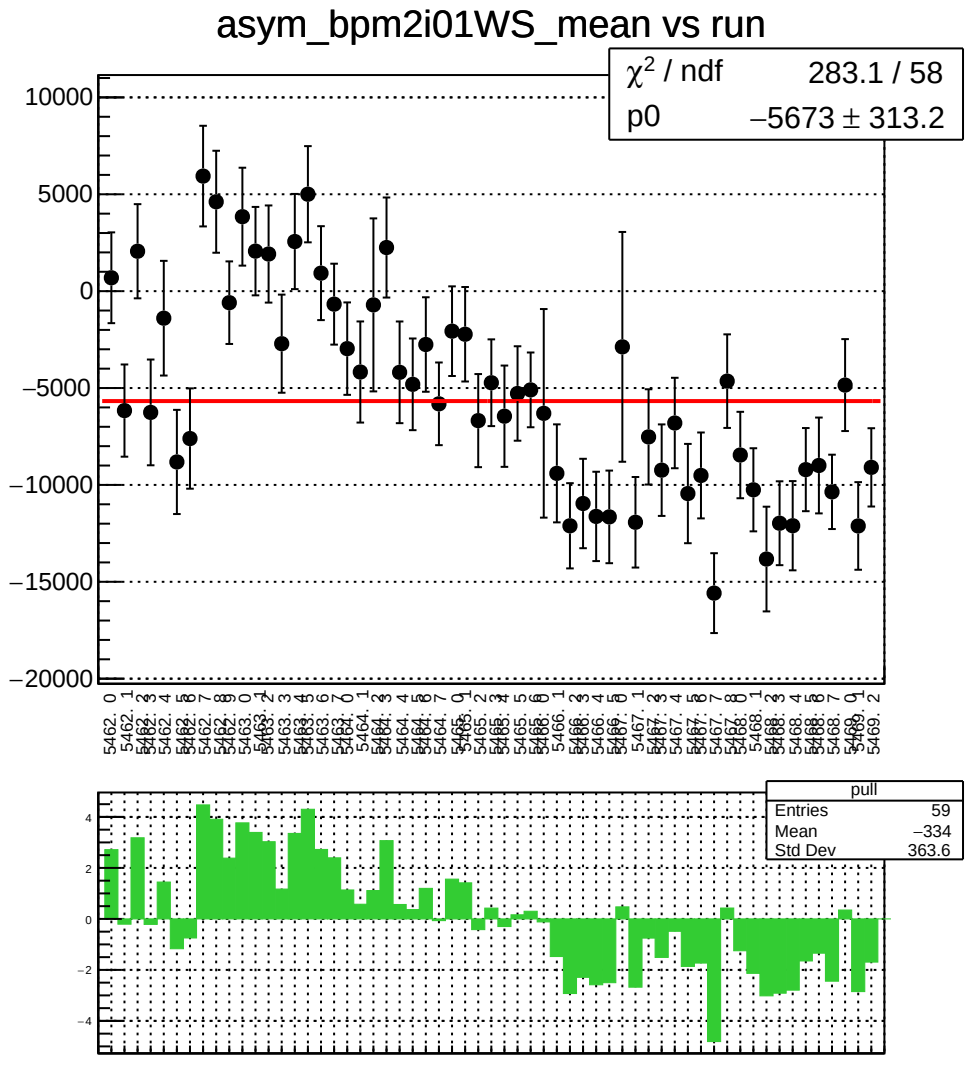

pull1D
Entries 59
Mean 0.0005994
Std Dev 0.5633

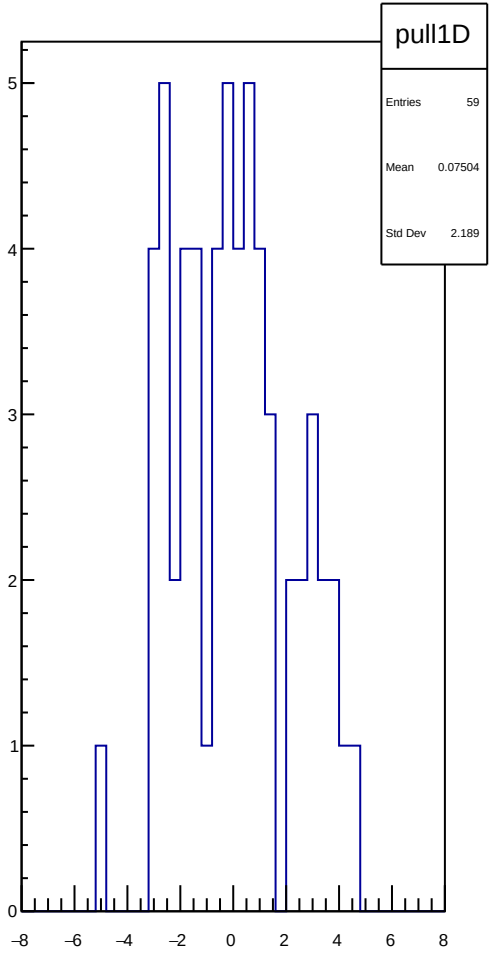

asym_bpm0i07WS_rms vs run
χ^2 / ndf 8676 / 58
p0 336.5 ± 0.3174
550
500
450
400
350
300

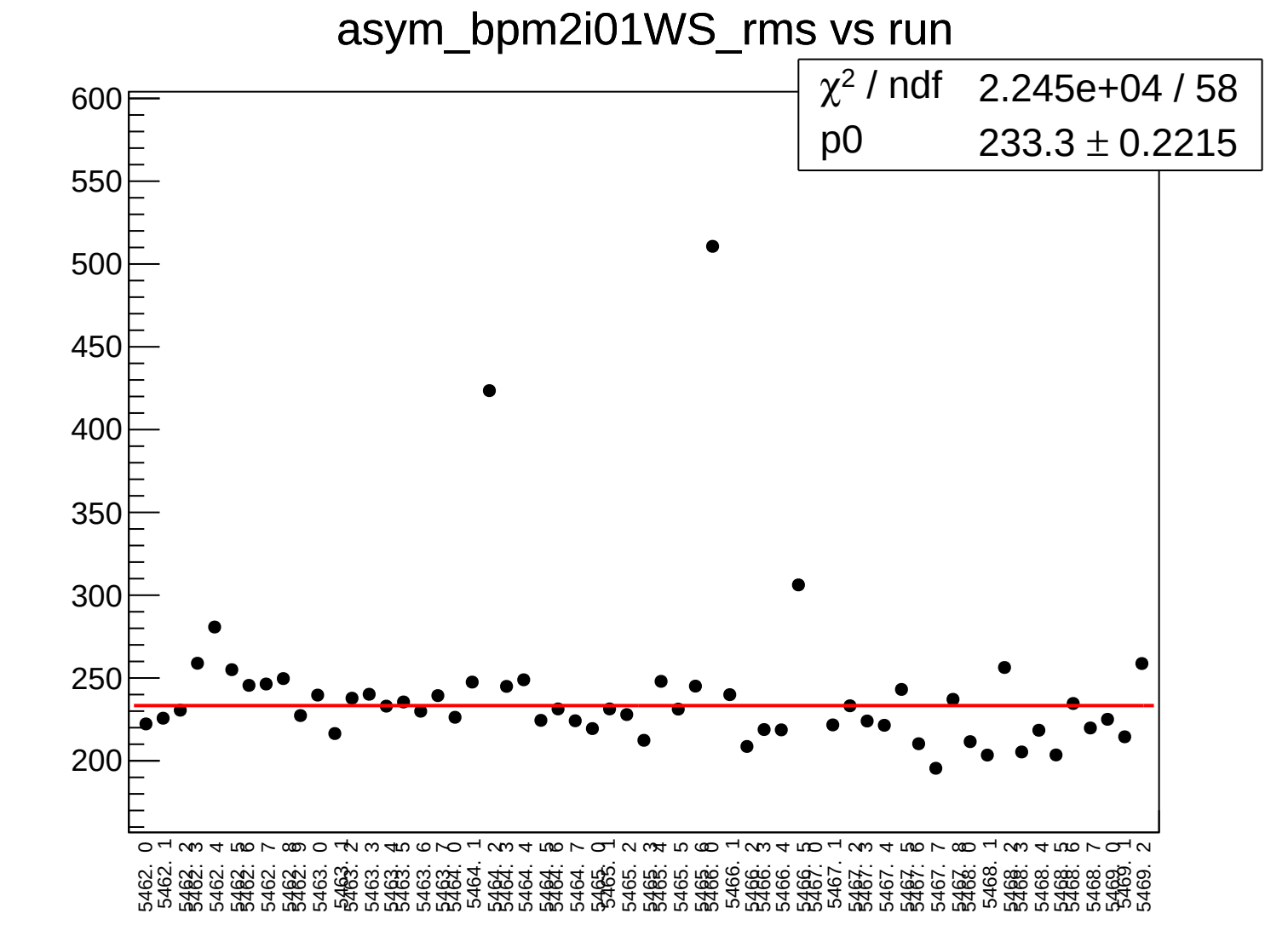

asym_bpm1i02WS_mean vs run
χ² / ndf 224.5 / 58
p0 −6118 ± 342.8
pull
Entries 59
Mean −261
Std Dev 289.4

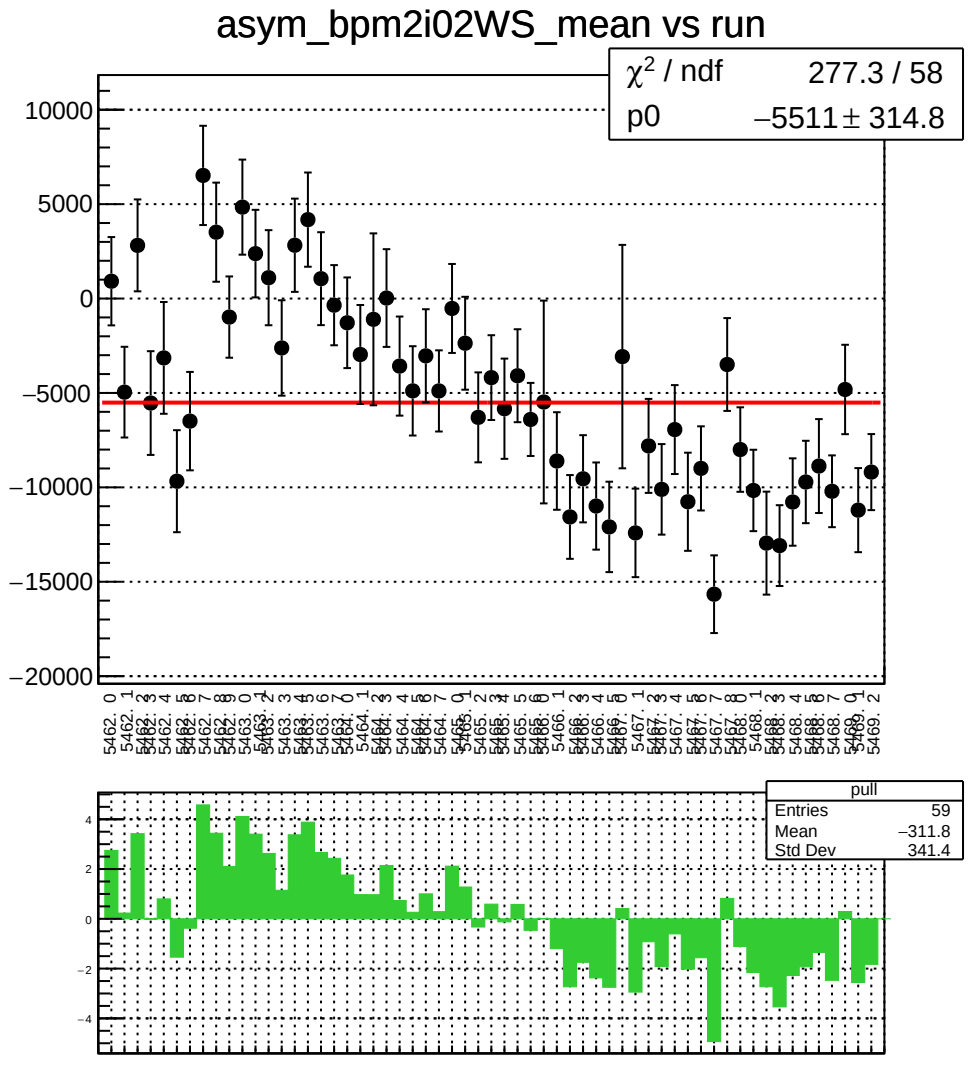

pull1D
Entries 59
Mean 0.07758
Std Dev 1.949

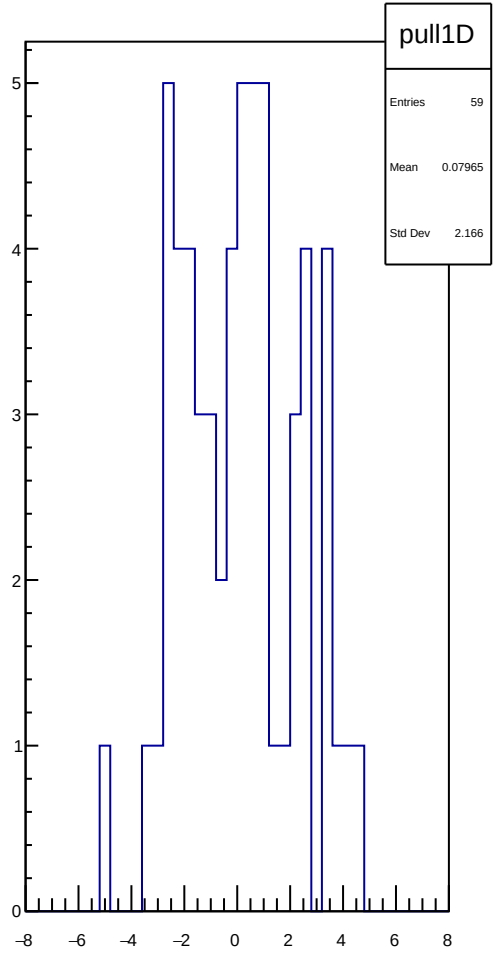

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.982e+04 / 58
p0 255.7 ± 0.2424
600
550
500
450
400
350
300
250
200

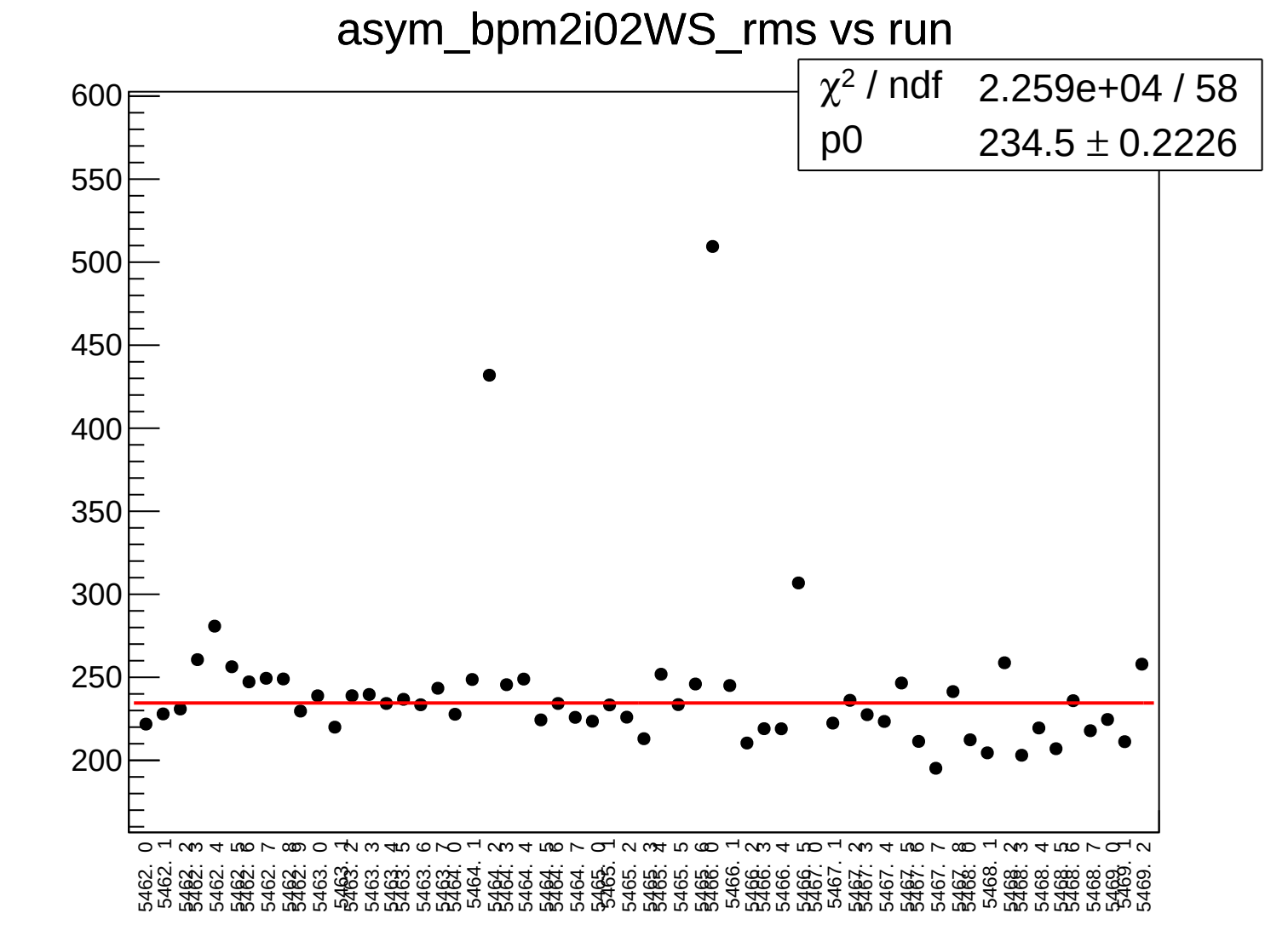

asym_bpm2i01WS_mean vs run
χ² / ndf 283.1 / 58
p0 −5673 ± 313.2
pull
Entries 59
Mean −334
Std Dev 363.6

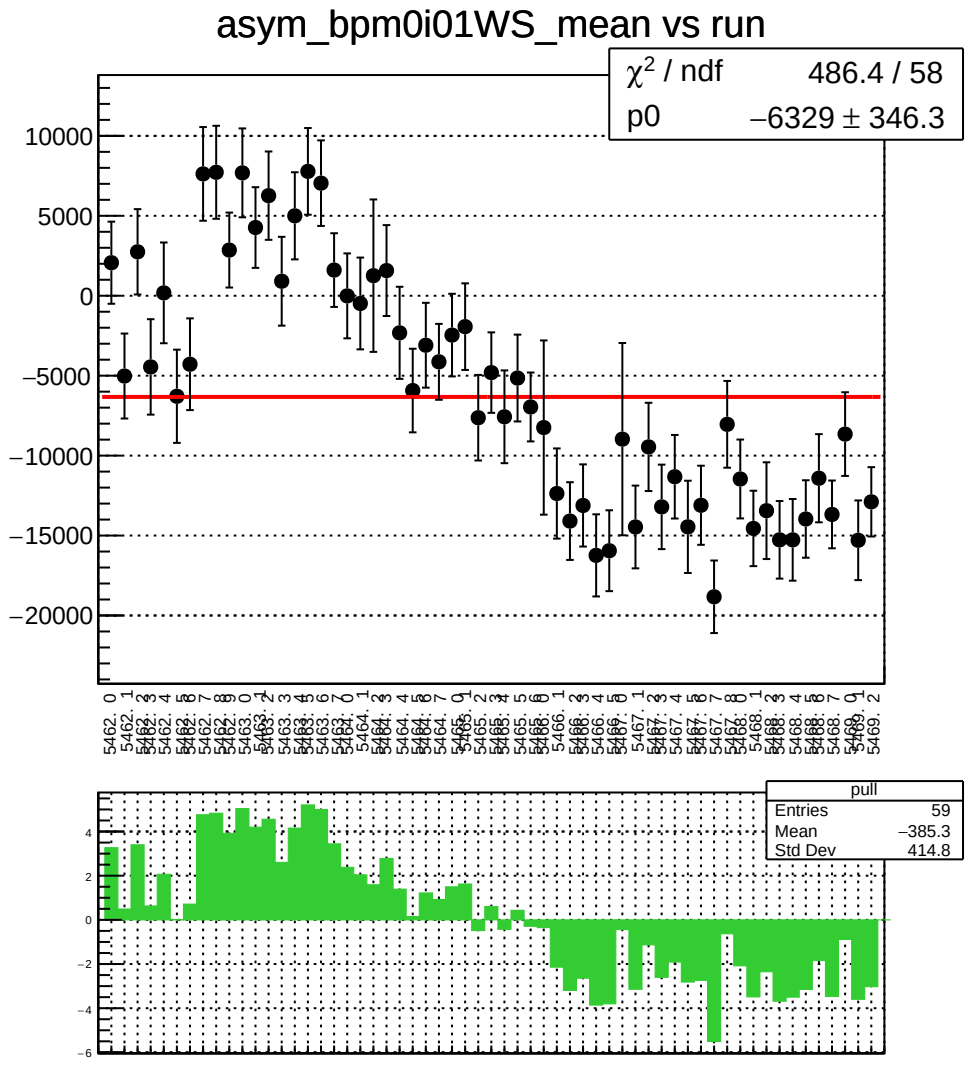

pull1D
Entries 59
Mean 0.07504
Std Dev 2.189

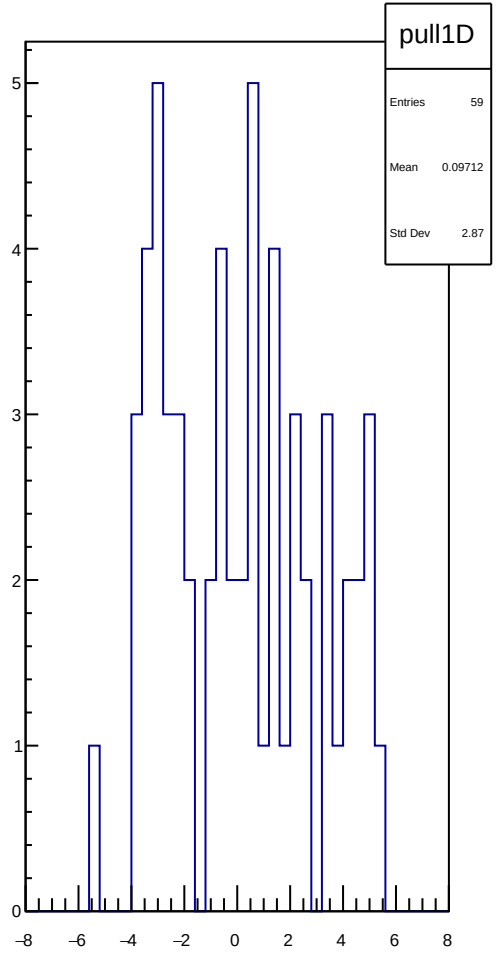

asym_bpm2i01WS_rms vs run
χ^2 / ndf 2.245e+04 / 58
p0 233.3 ± 0.2215
600
550
500
450
400
350
300
250
200

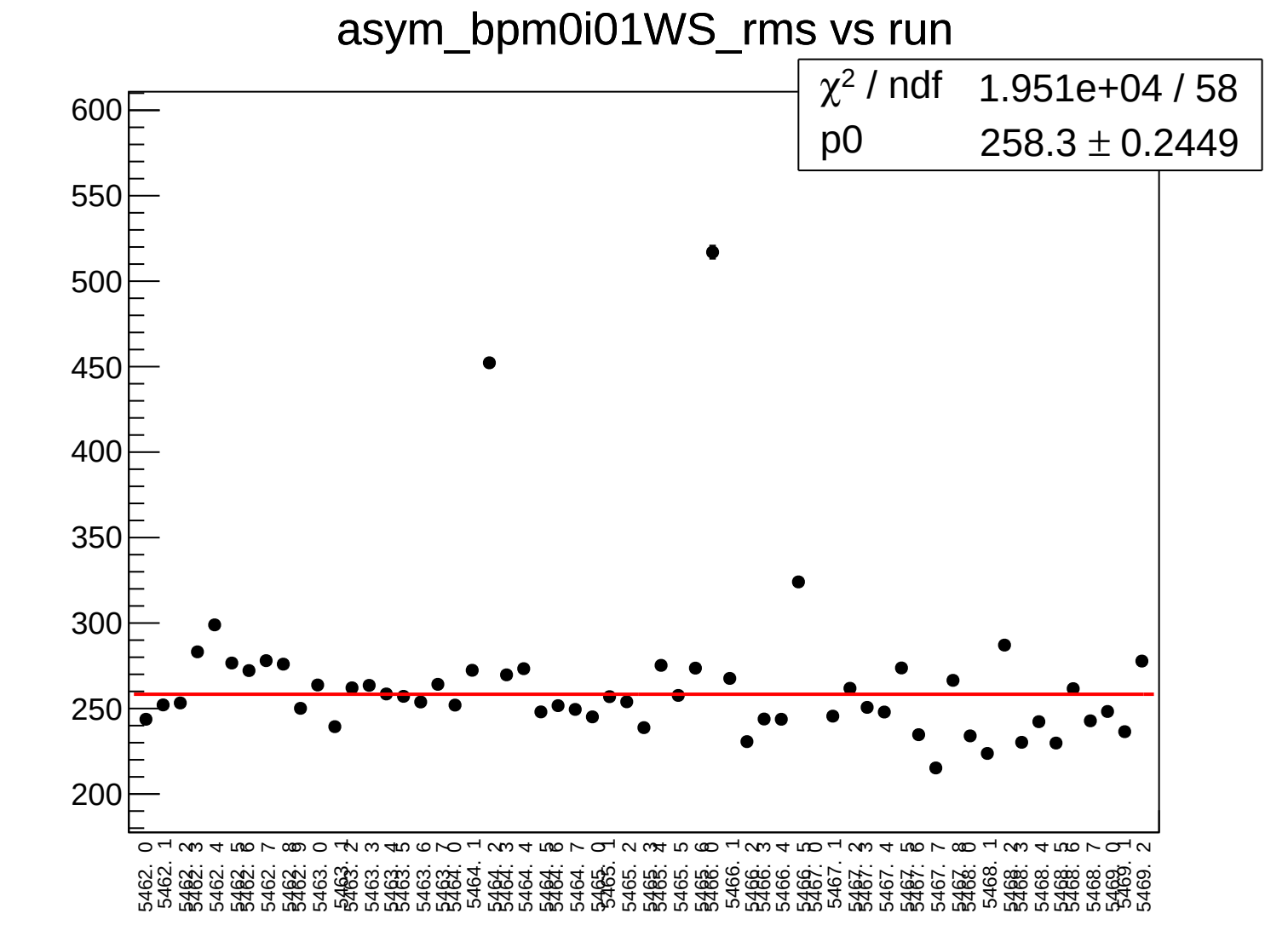

asym_bpm2i02WS_mean vs run
χ² / ndf 277.3 / 58
p0 −5511 ± 314.8
pull
Entries 59
Mean −311.8
Std Dev 341.4

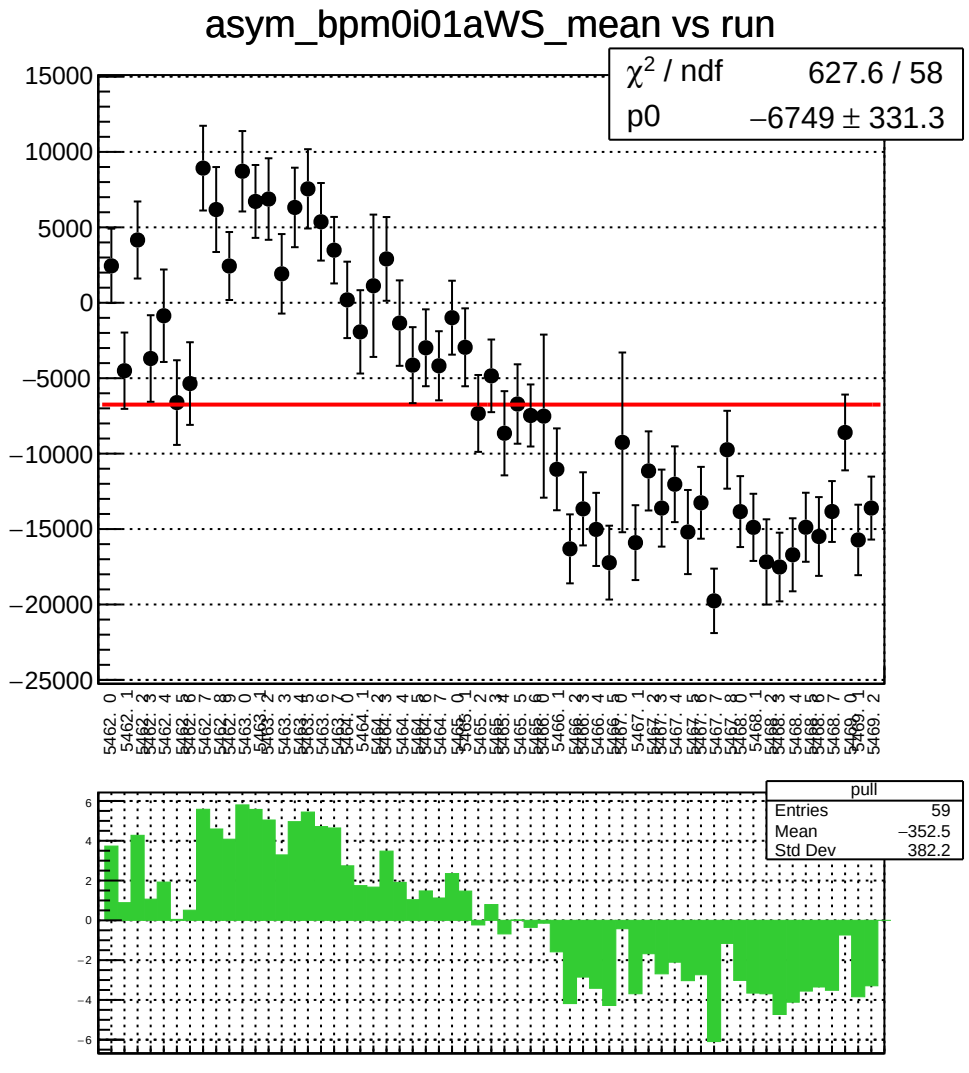

pull1D
Entries 59
Mean 0.07965
Std Dev 2.166

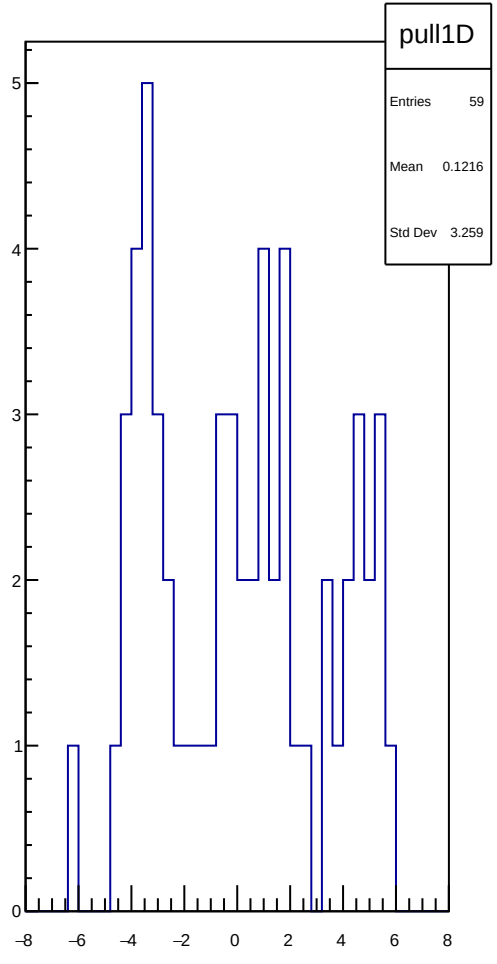

asym_bpm2i02WS_rms vs run
χ^2 / ndf 2.259e+04 / 58
p0 234.5 ± 0.2226
600
550
500
450
400
350
300
250
200

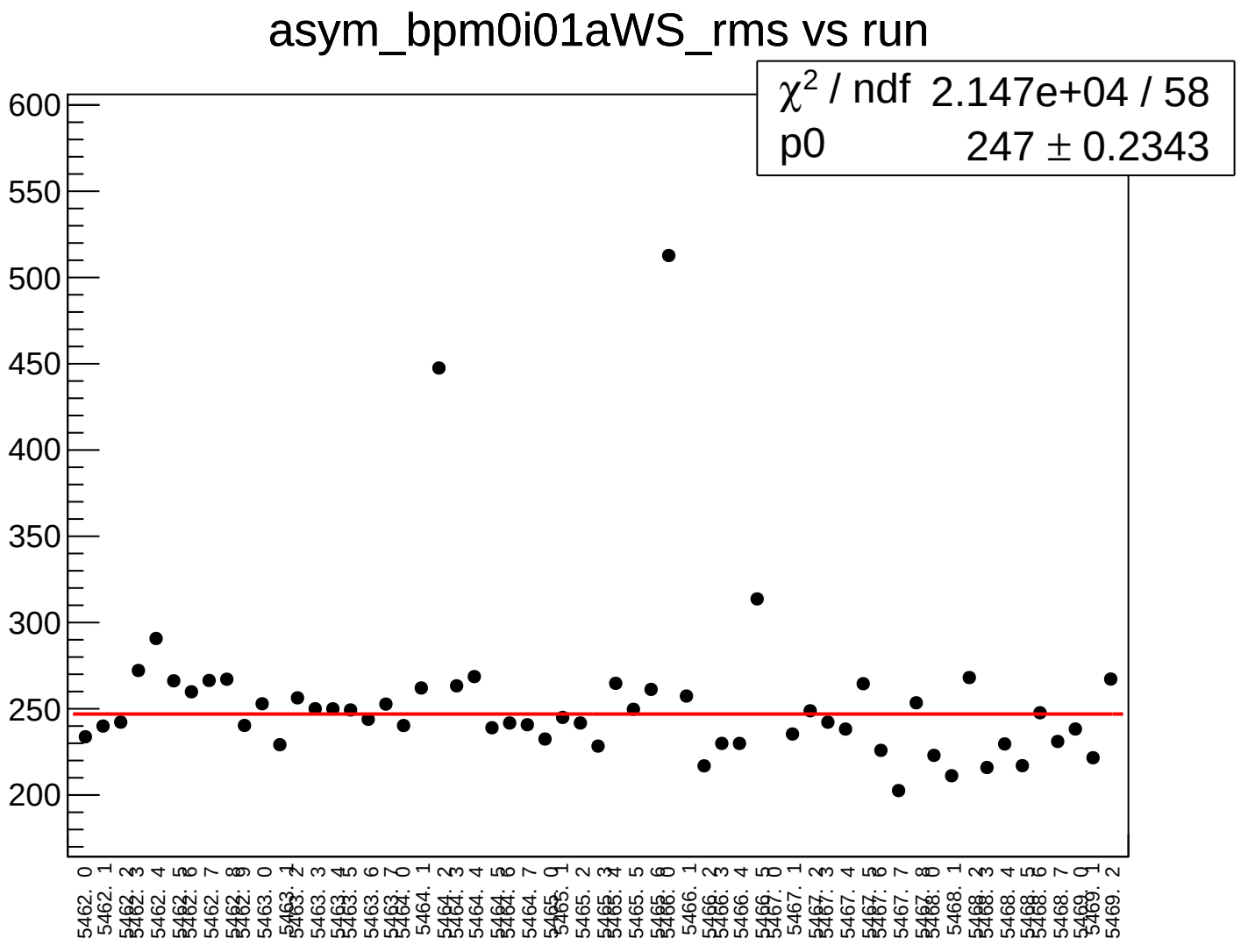

asym_bpm0i01WS_mean vs run
χ² / ndf 486.4 / 58
p0 −6329 ± 346.3
pull
Entries 59
Mean −385.3
Std Dev 414.8

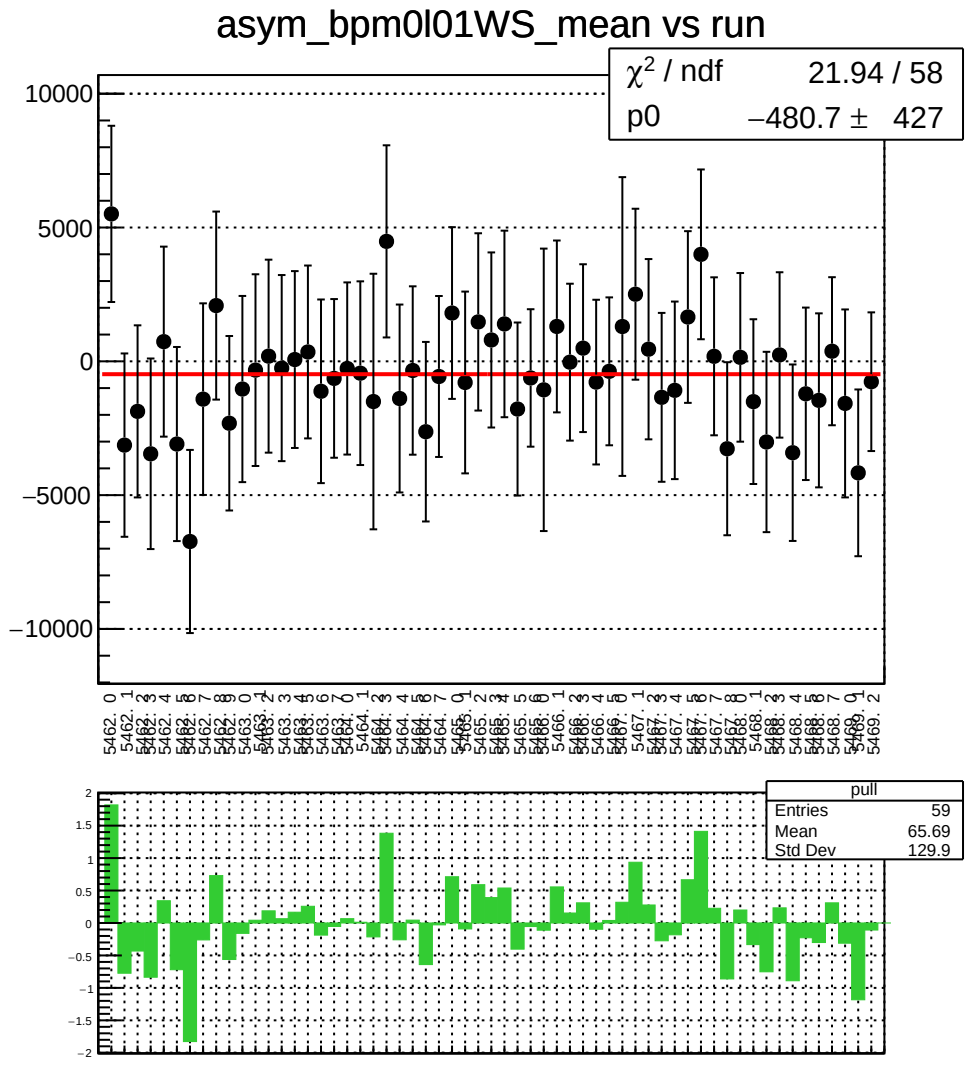

pull1D
Entries 59
Mean 0.09712
Std Dev 2.87

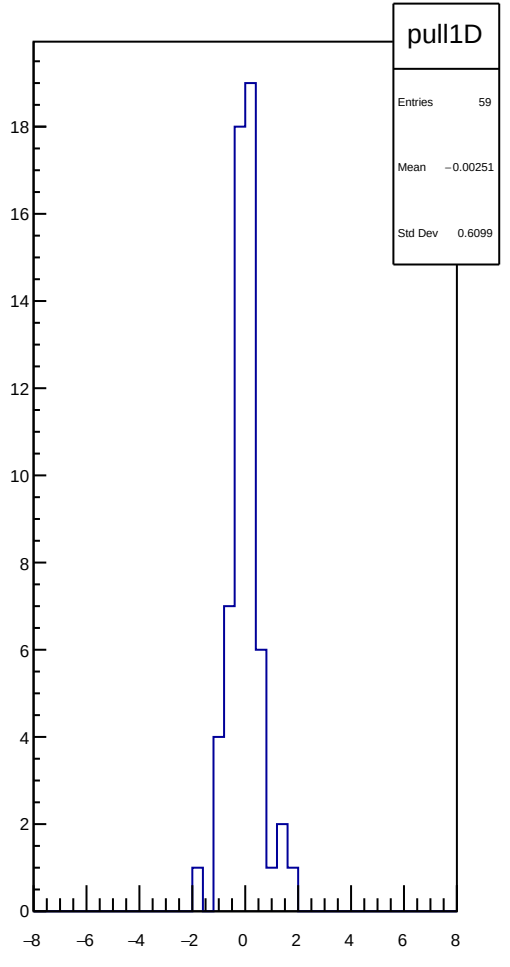

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.951e+04 / 58
p0 258.3 ± 0.2449
600
550
500
450
400
350
300
250
200

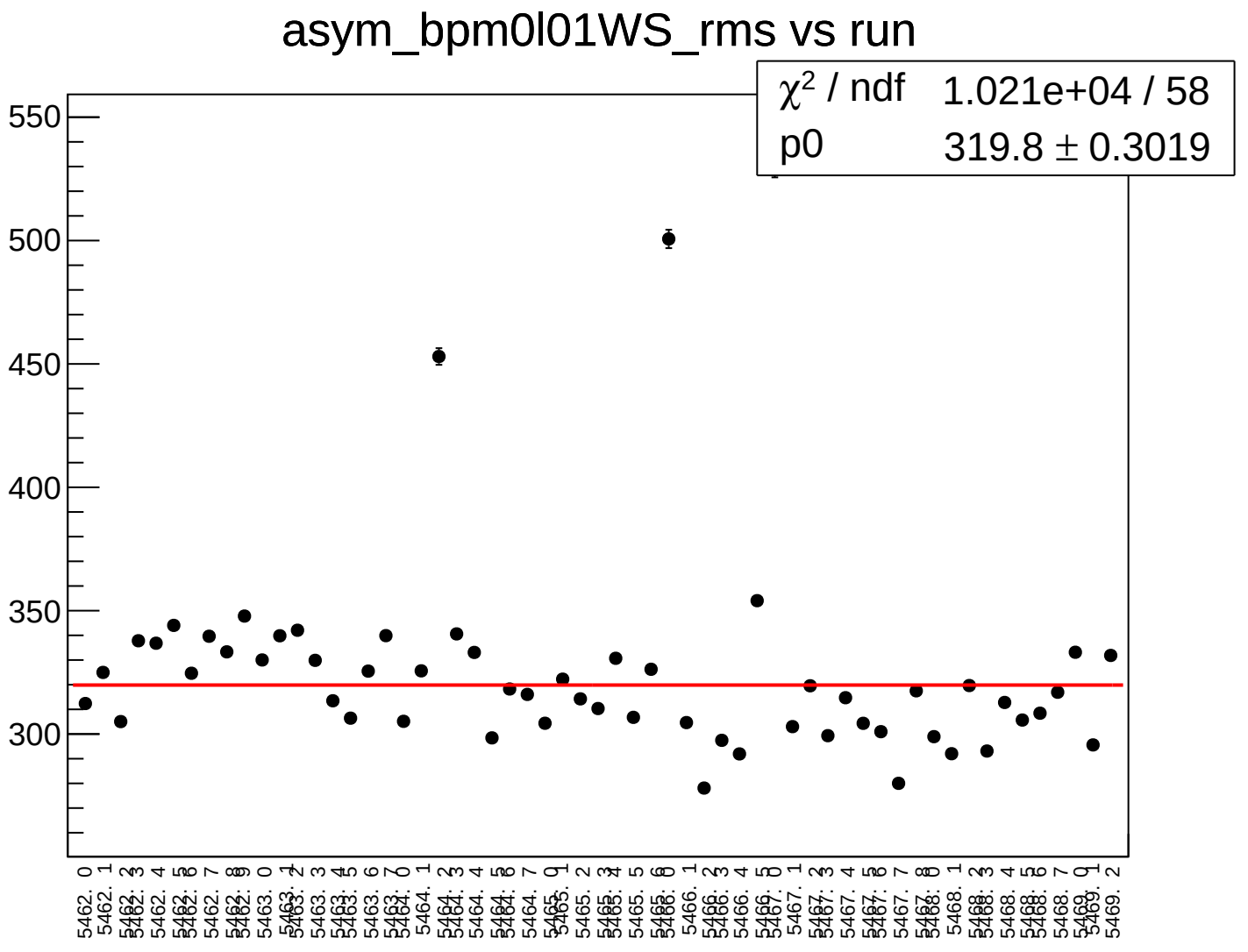

asym_bpm0i01aWS_mean vs run
χ² / ndf 627.6 / 58
p0 −6749 ± 331.3
pull
Entries 59
Mean −352.5
Std Dev 382.2

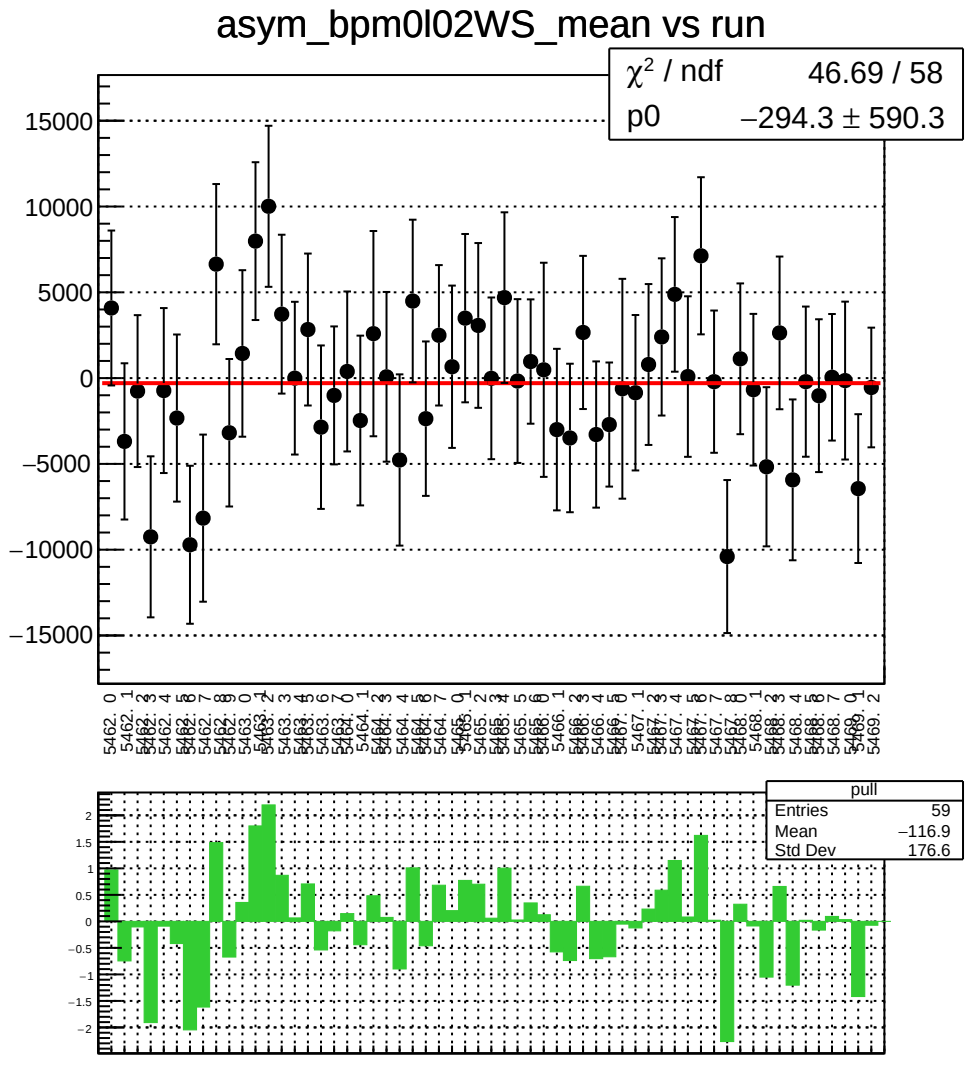

pull1D
Entries 59
Mean 0.1216
Std Dev 3.259

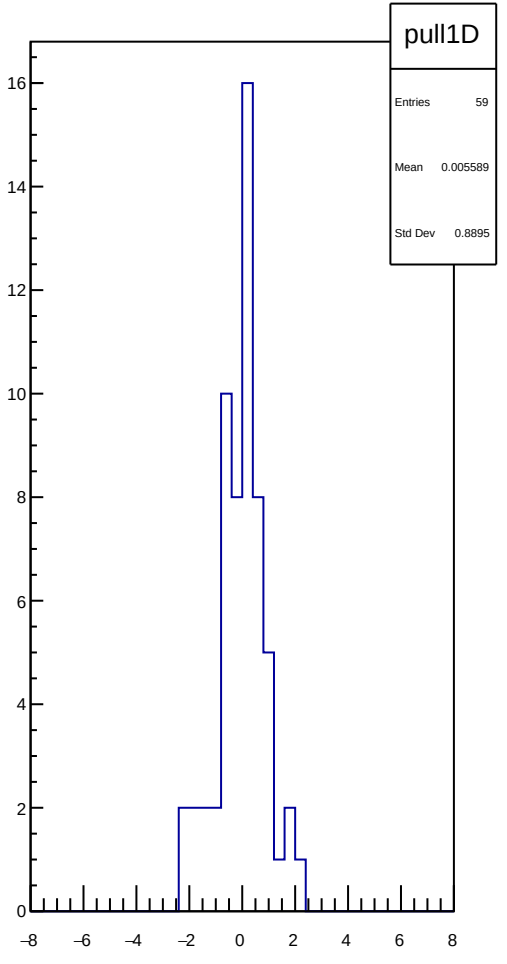

asym_bpm0i01aWS_rms vs run
χ^2 / ndf 2.147e+04 / 58
p0 247 ± 0.2343
600
550
500
450
400
350
300
250
200

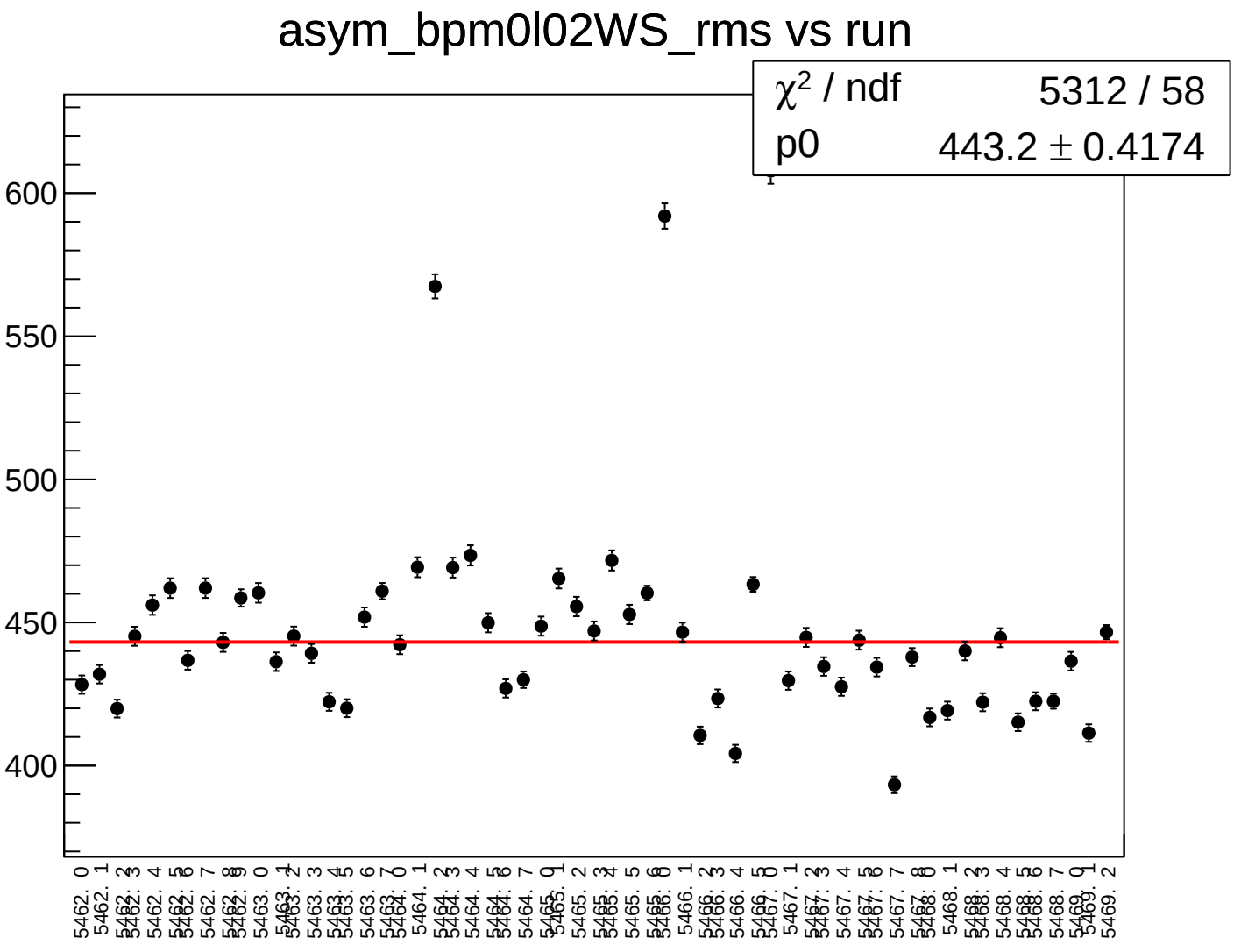

asym_bpm0l01WS_mean vs run
χ² / ndf 21.94 / 58
p0 −480.7 ± 427
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 65.69
Std Dev 129.9
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

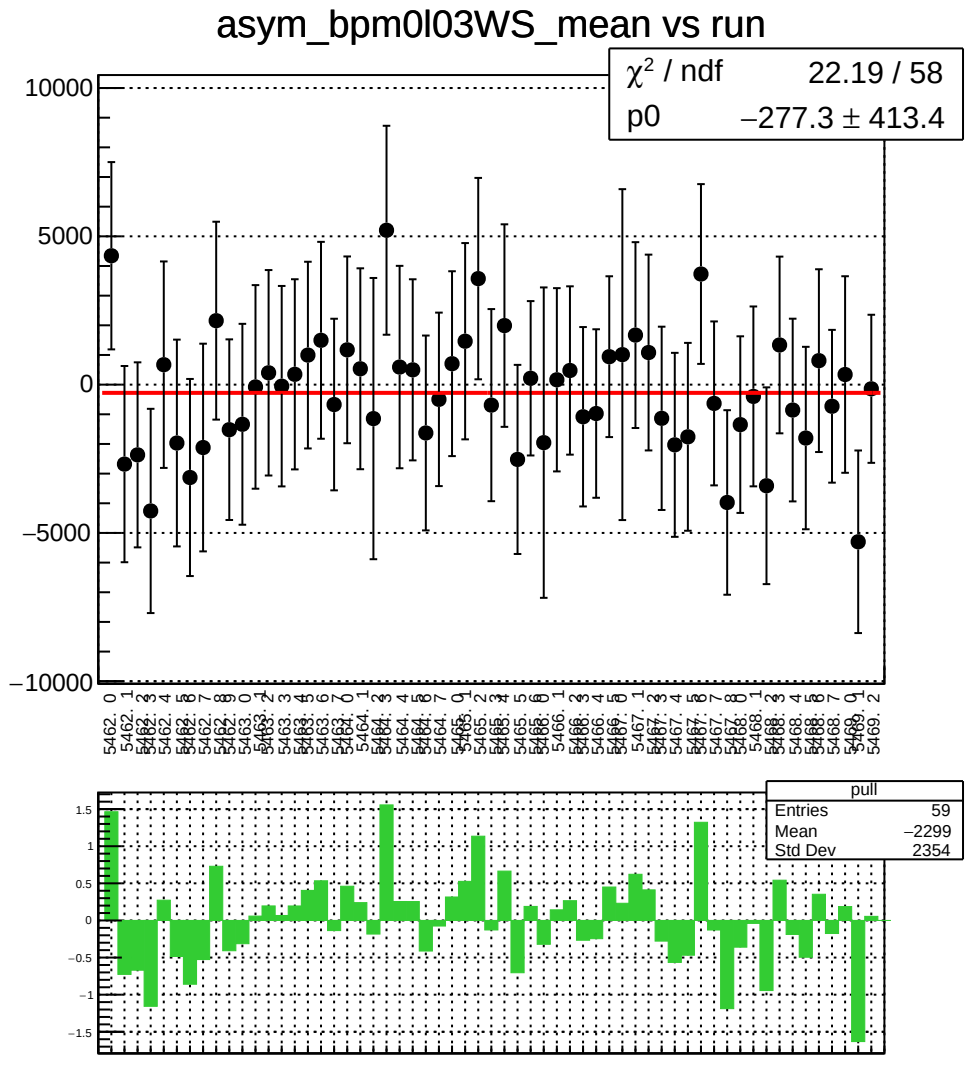

pull1D
Entries 59
Mean −0.00251
Std Dev 0.6099
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

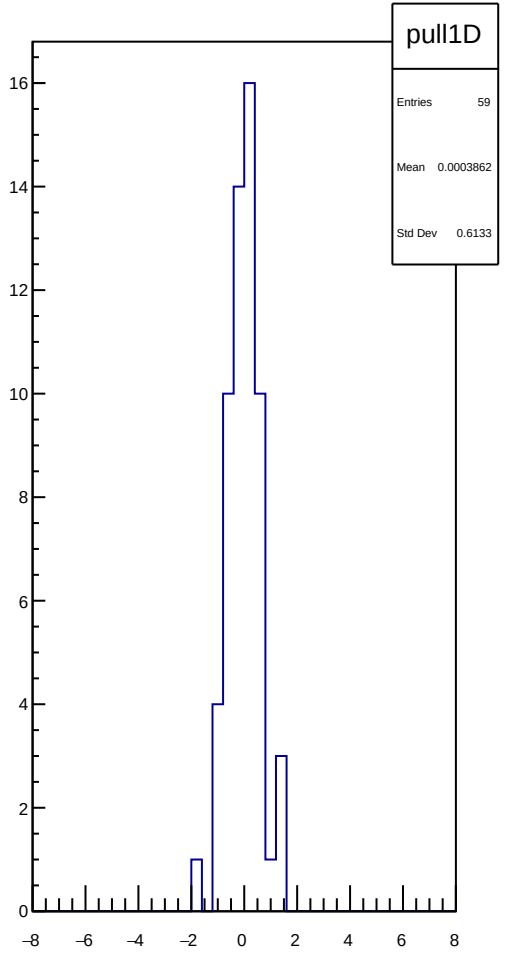

asym_bpm0l01WS_rms vs run
χ² / ndf 1.021e+04 / 58
p0 319.8 ± 0.3019
550
500
450
400
350
300

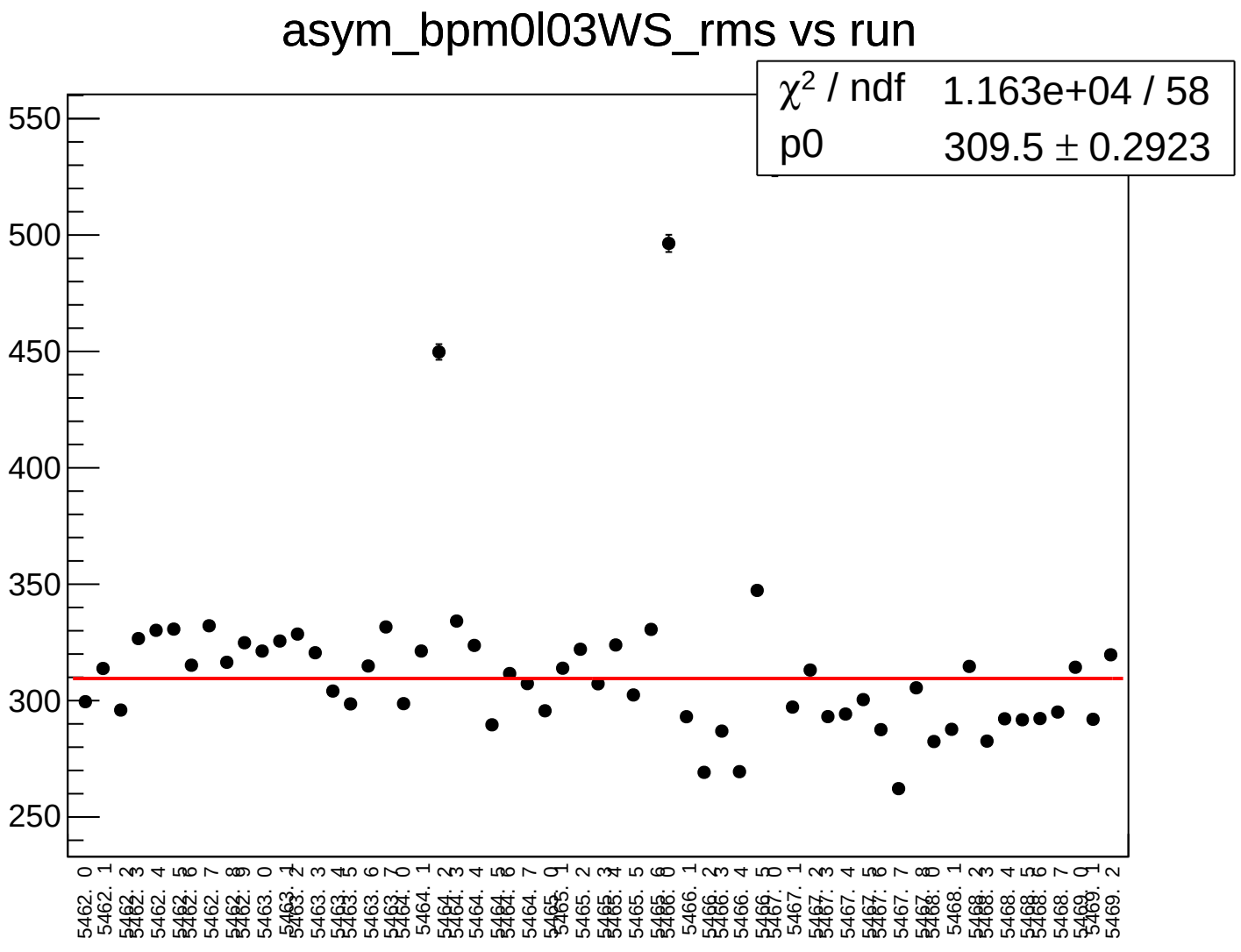

asym_bpm0l02WS_mean vs run
χ² / ndf 46.69 / 58
p0 −294.3 ± 590.3
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean −116.9
Std Dev 176.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

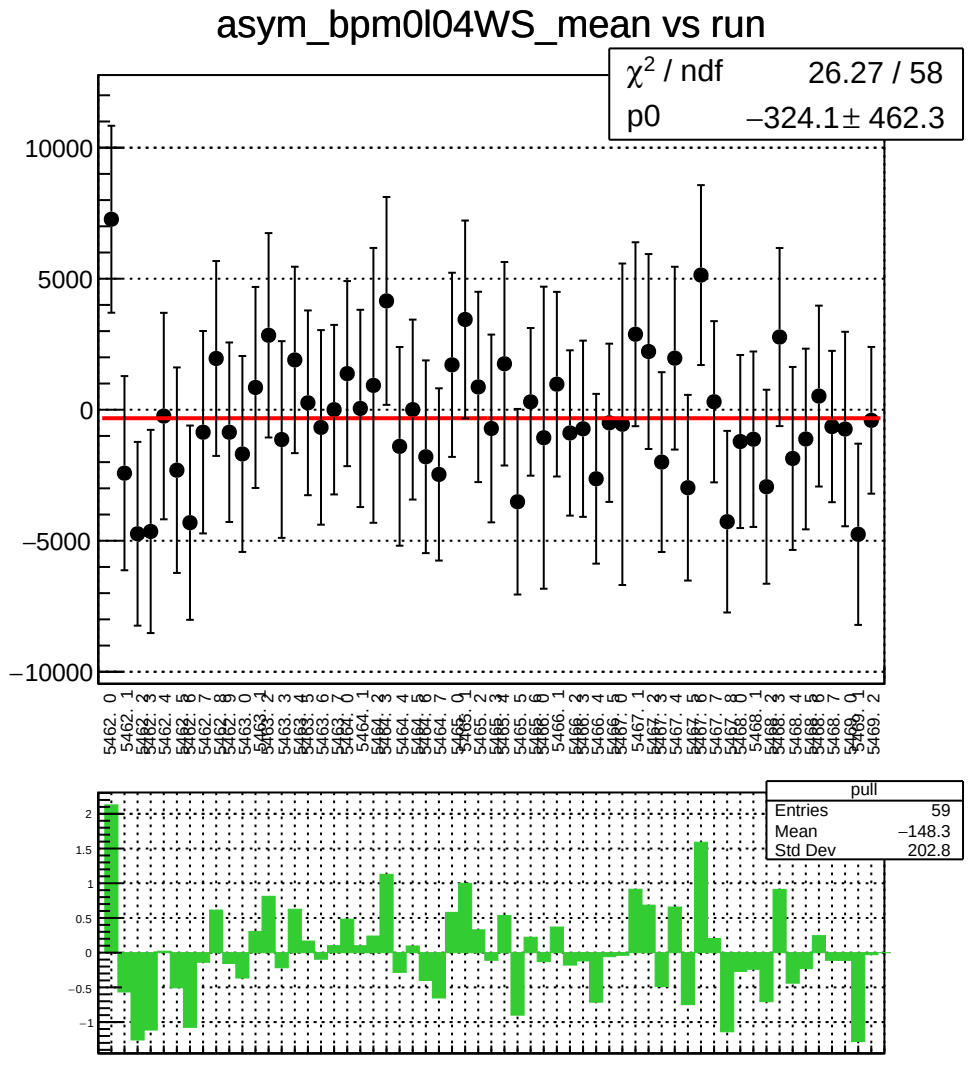

pull1D
Entries 59
Mean 0.005589
Std Dev 0.8895
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

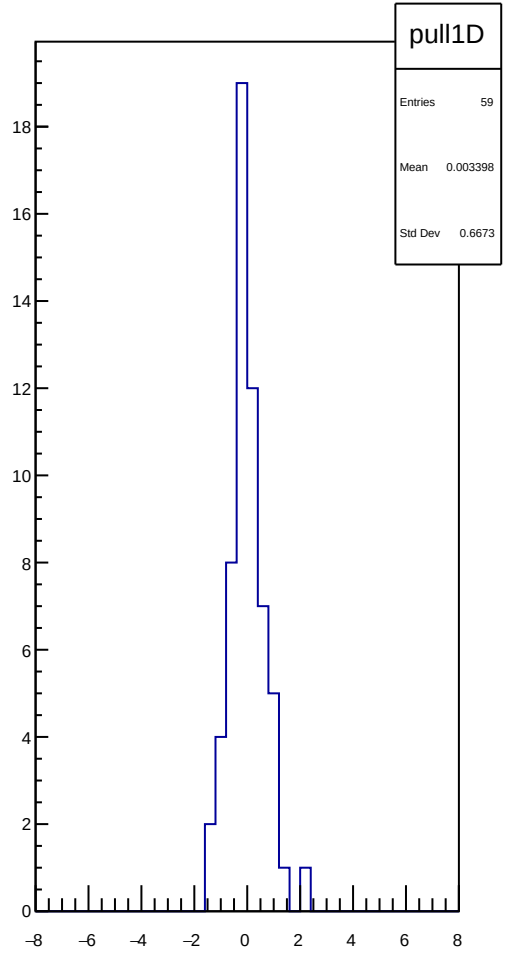

asym_bpm0l02WS_rms vs run
χ² / ndf 5312 / 58
p0 443.2 ± 0.4174
600
550
500
450
400

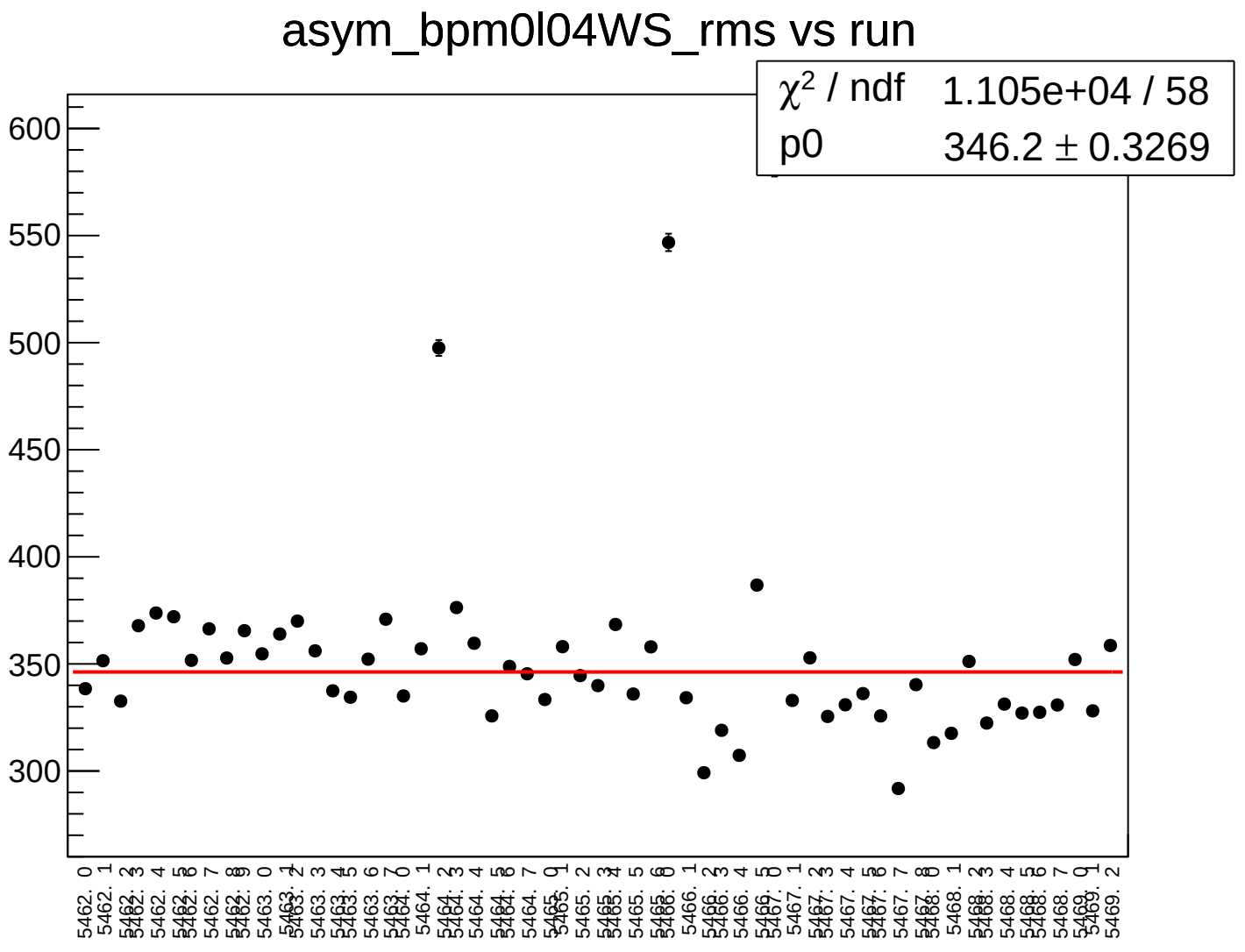

asym_bpm0l03WS_mean vs run
χ² / ndf 22.19 / 58
p0 −277.3 ± 413.4
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −2299
Std Dev 2354
1.5
1
0.5
0
−0.5
−1
−1.5

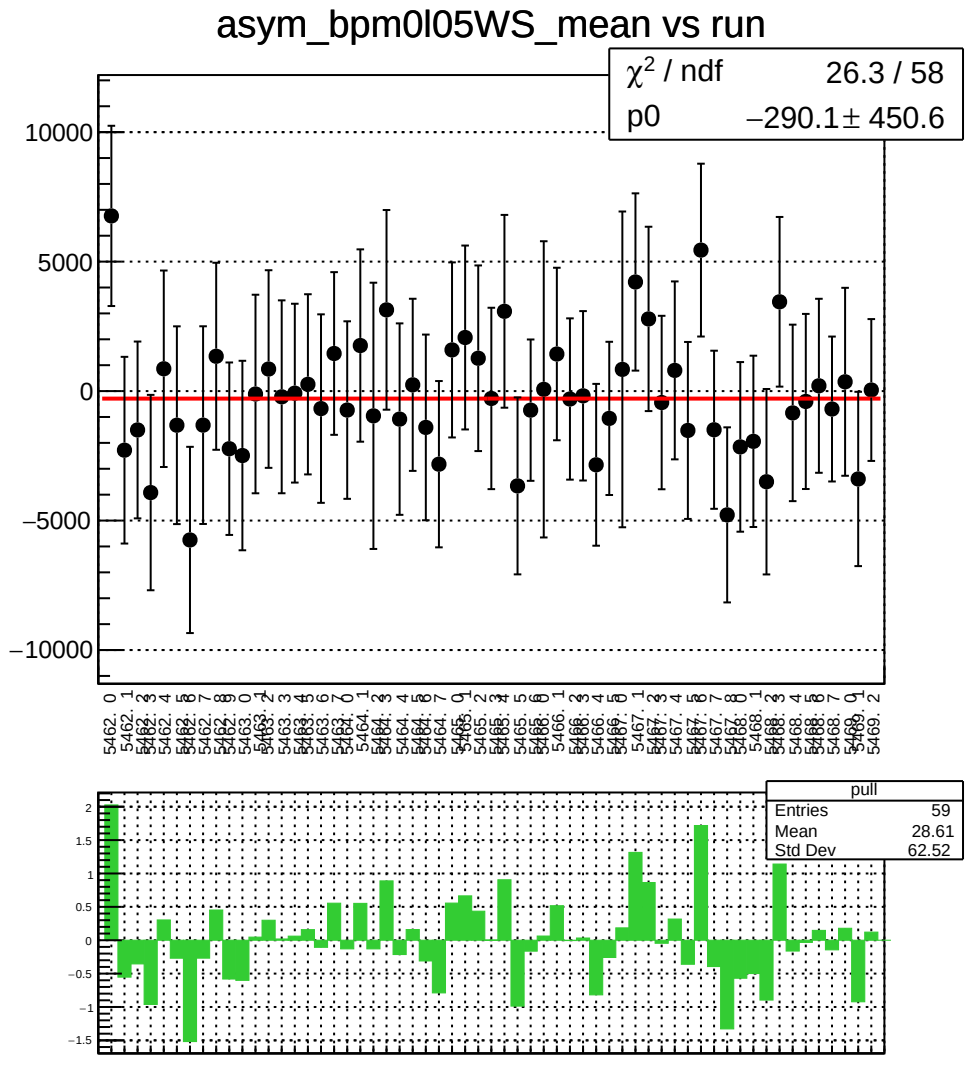

pull1D
Entries 59
Mean 0.0003862
Std Dev 0.6133
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

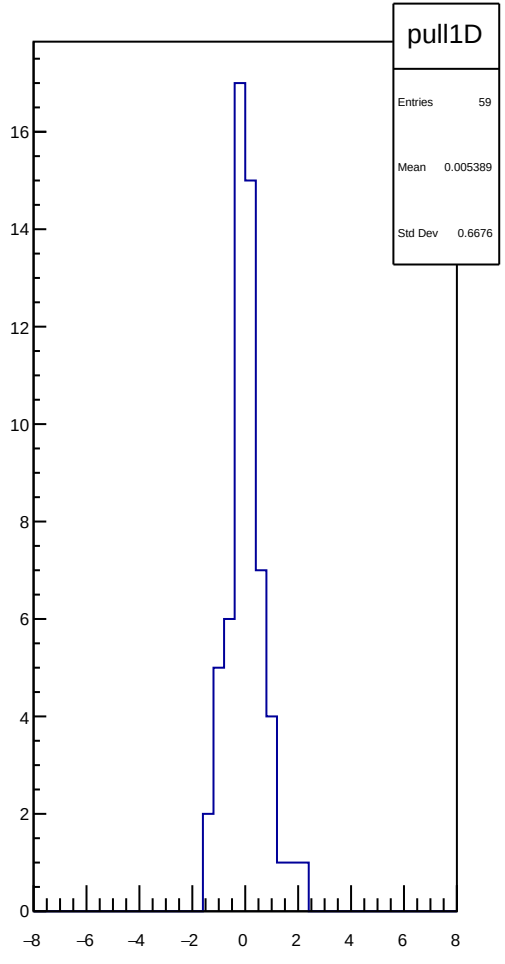

asym_bpm0l03WS_rms vs run
χ² / ndf 1.163e+04 / 58
p0 309.5 ± 0.2923
550
500
450
400
350
300
250

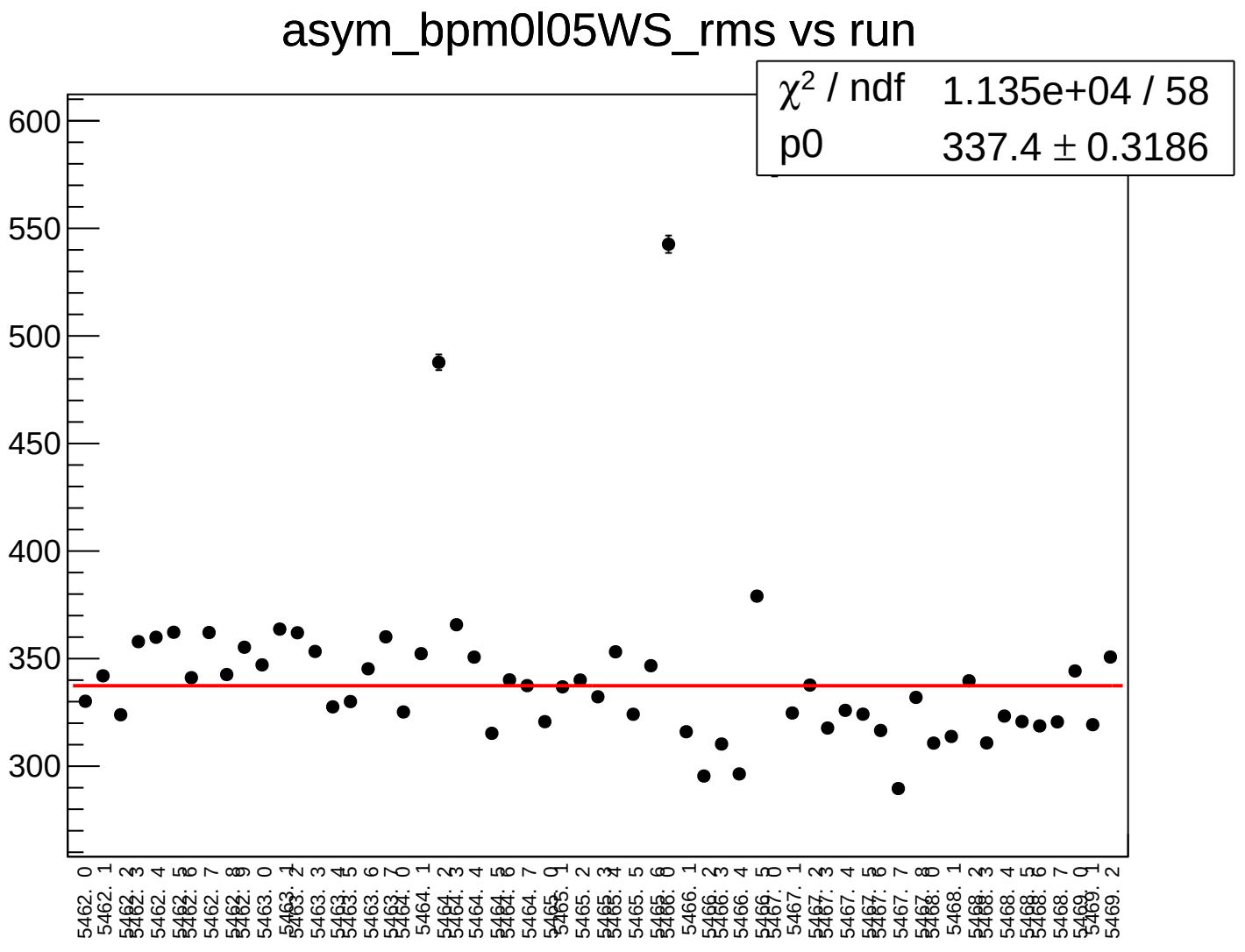

asym_bpm0l04WS_mean vs run
χ² / ndf 26.27 / 58
p0 −324.1± 462.3
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −148.3
Std Dev 202.8
2
1.5
1
0.5
0
−0.5
−1

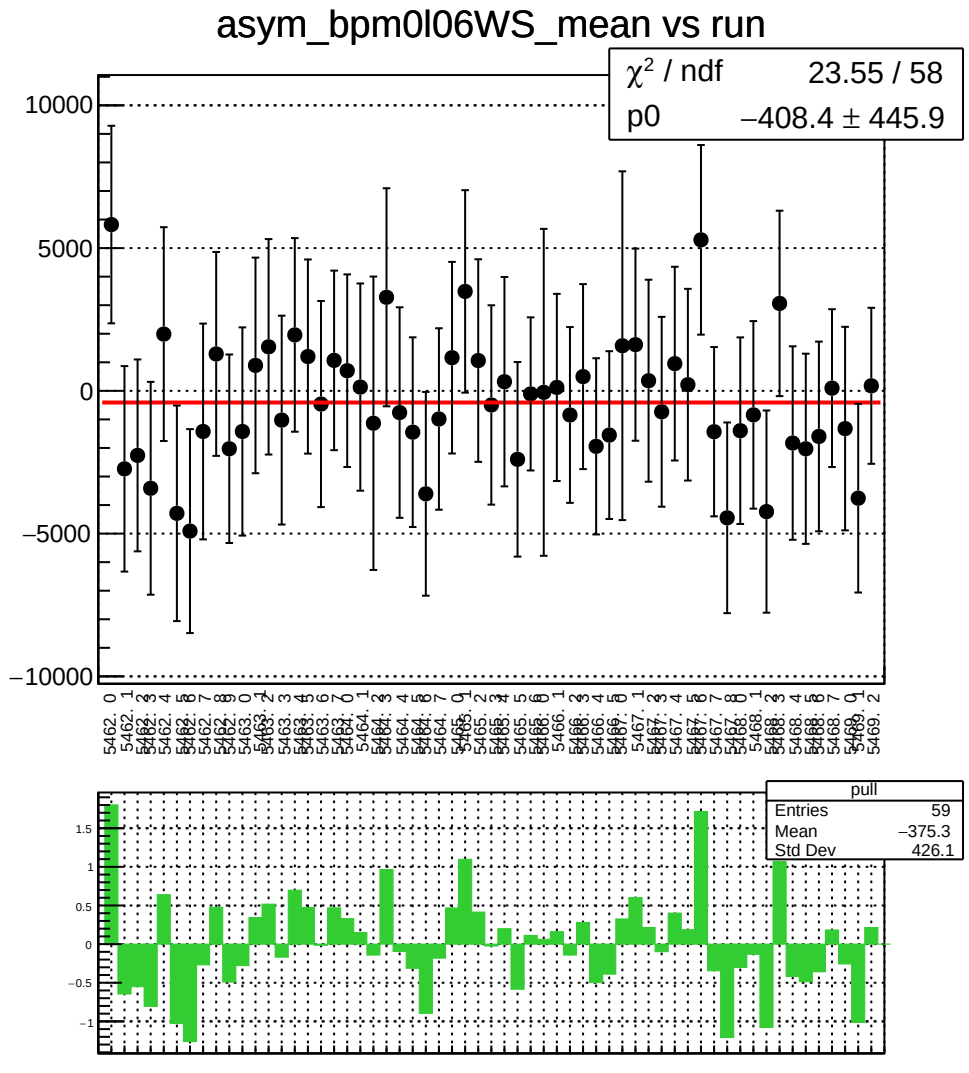

pull1D
Entries 59
Mean 0.003398
Std Dev 0.6673
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

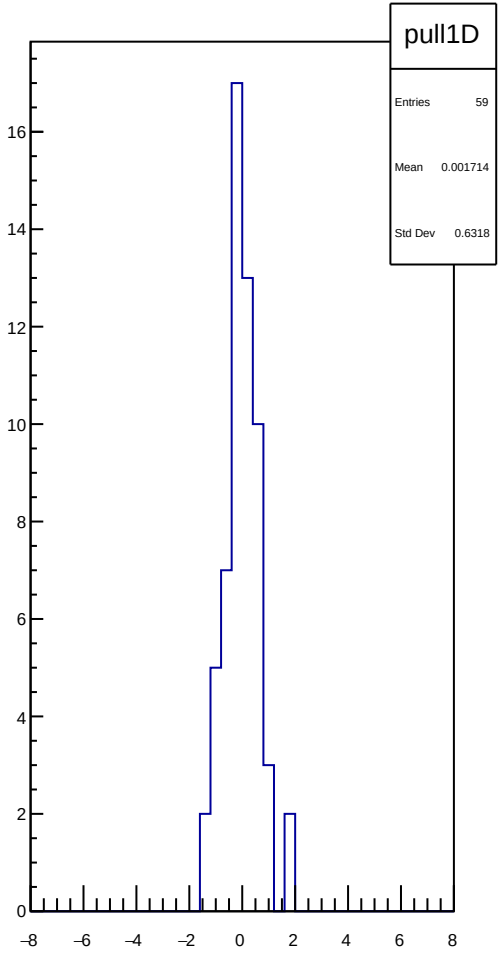

asym_bpm0l04WS_rms vs run
χ² / ndf 1.105e+04 / 58
p0 346.2 ± 0.3269
600
550
500
450
400
350
300

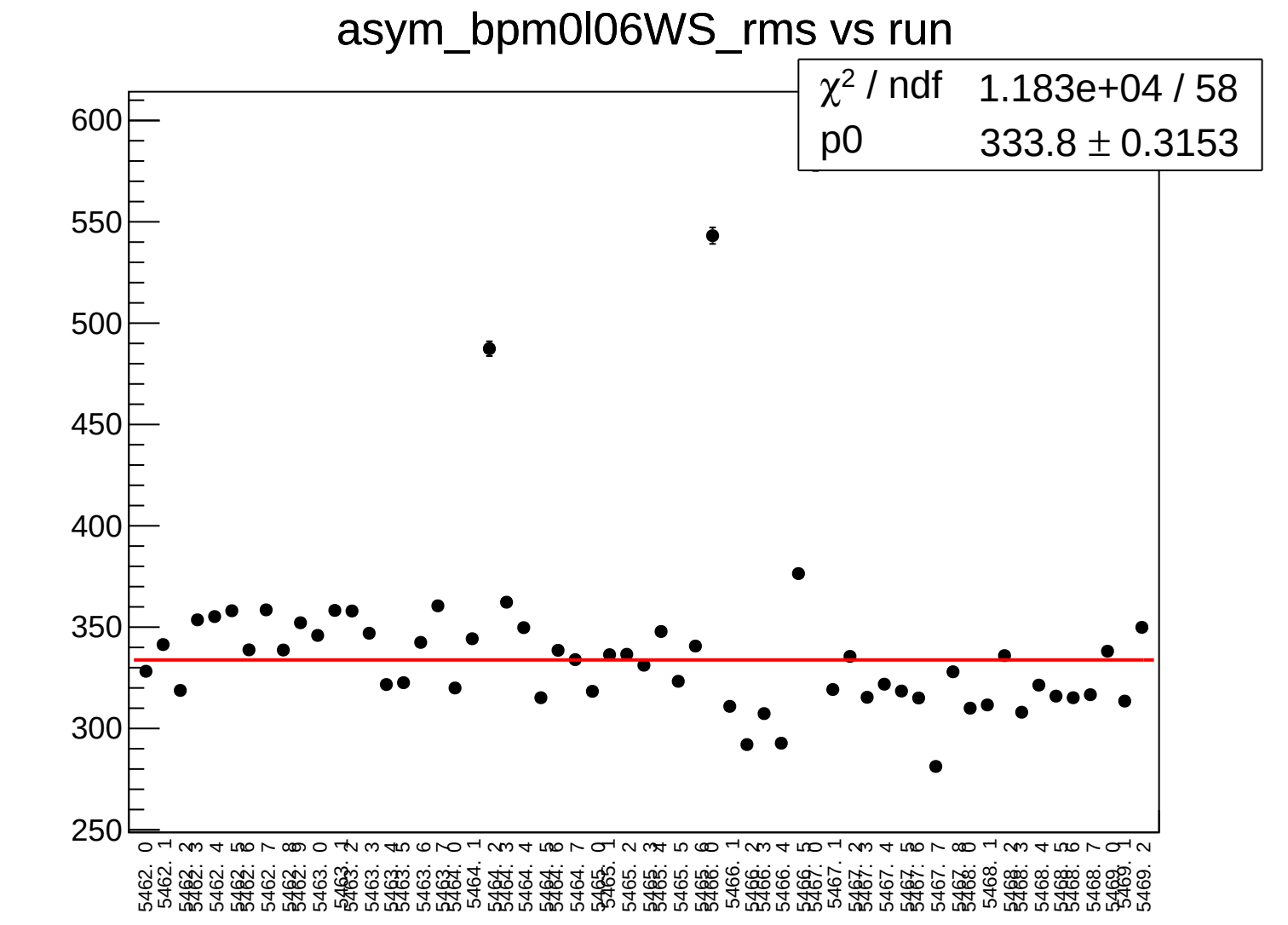

asym_bpm0l05WS_mean vs run
χ² / ndf 26.3 / 58
p0 −290.1 ± 450.6
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 28.61
Std Dev 62.52
2
1.5
1
0.5
0
−0.5
−1
−1.5

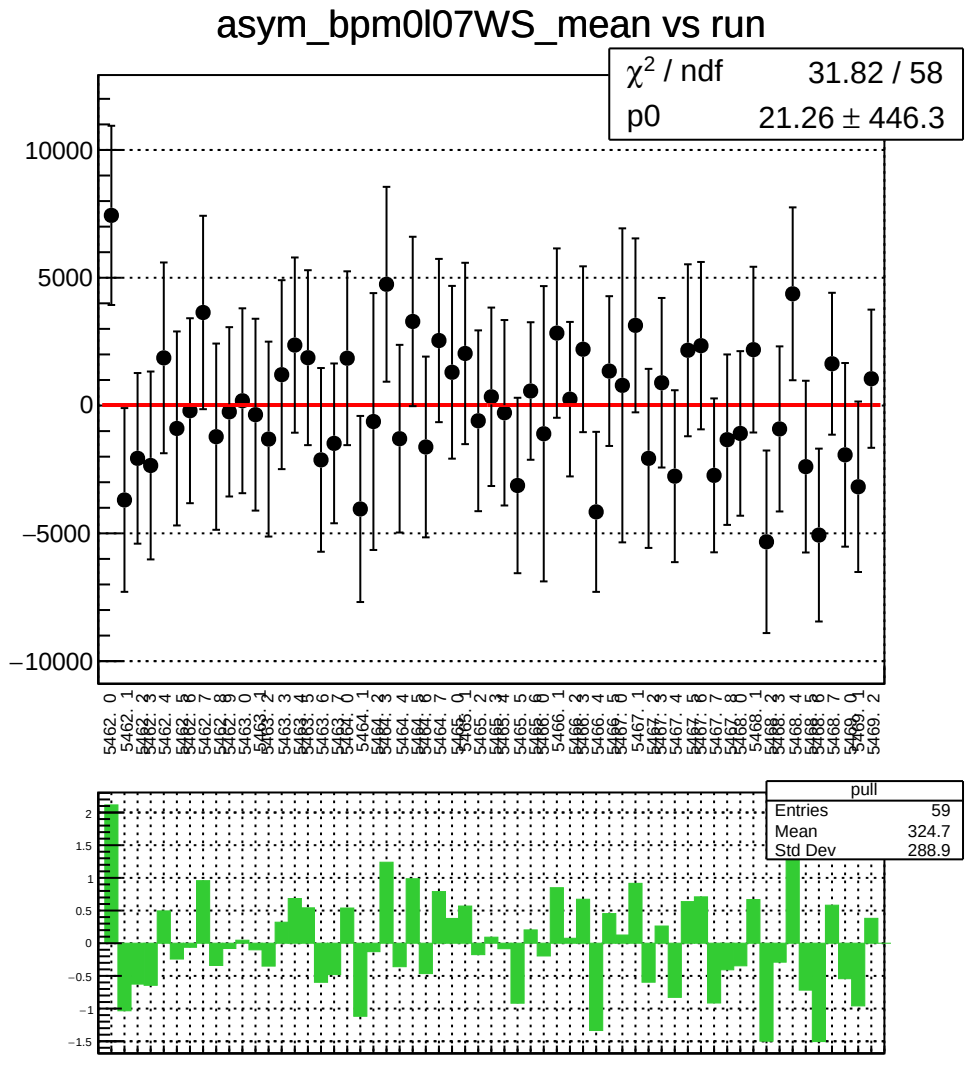

pull1D
Entries 59
Mean 0.005389
Std Dev 0.6676
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

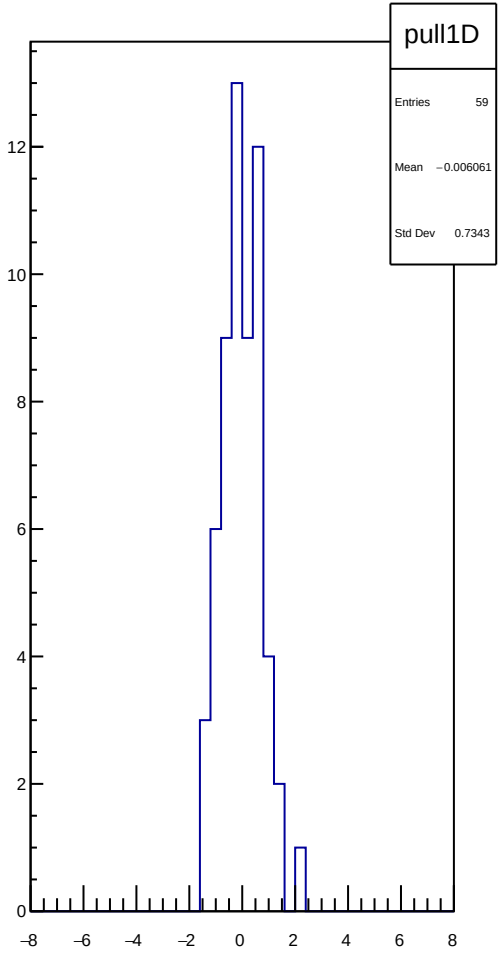

asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.135e+04 / 58
p0 337.4 ± 0.3186
600
550
500
450
400
350
300

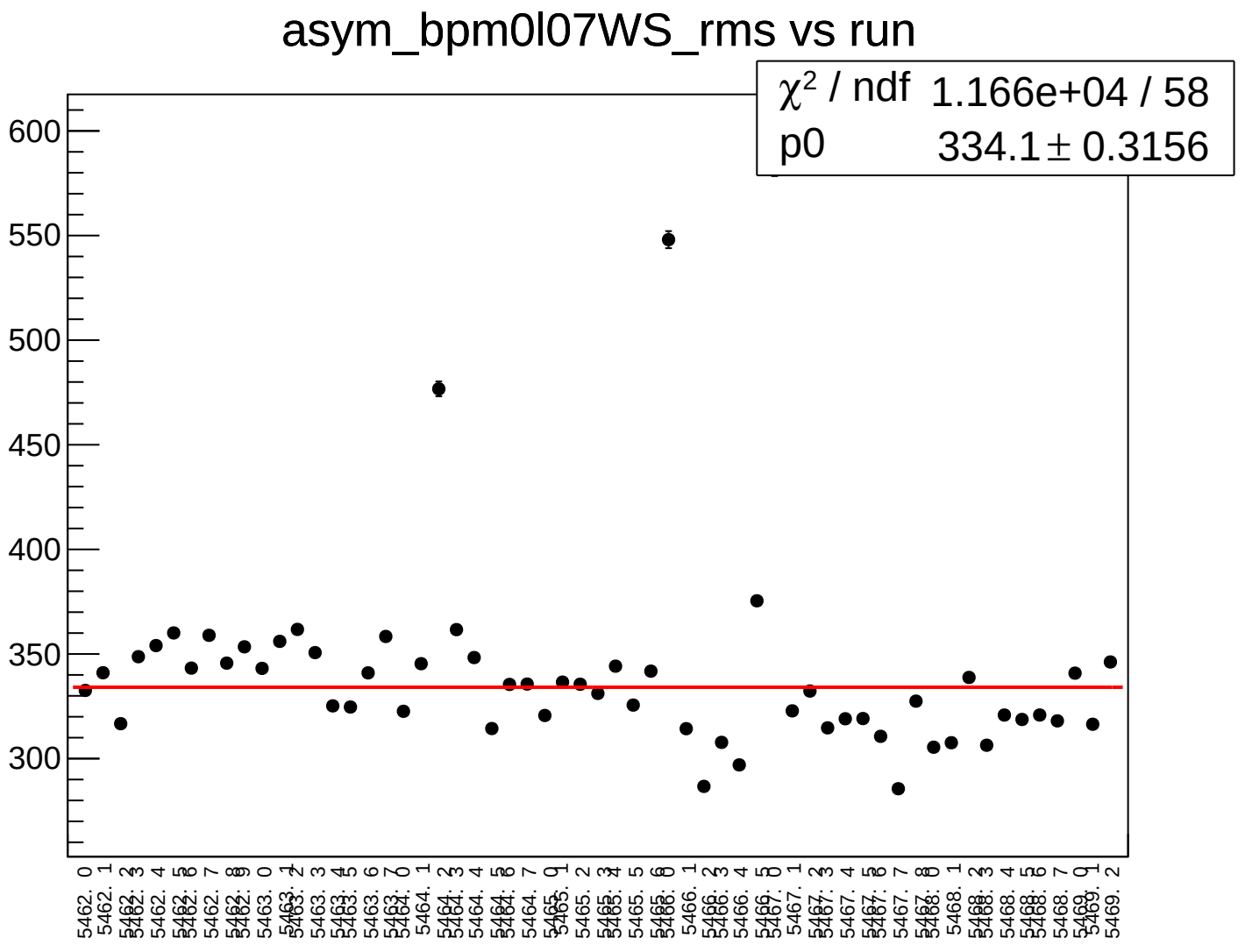

asym_bpm0l06WS_mean vs run
χ² / ndf 23.55 / 58
p0 −408.4 ± 445.9
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −375.3
Std Dev 426.1
1.5
1
0.5
0
−0.5
−1

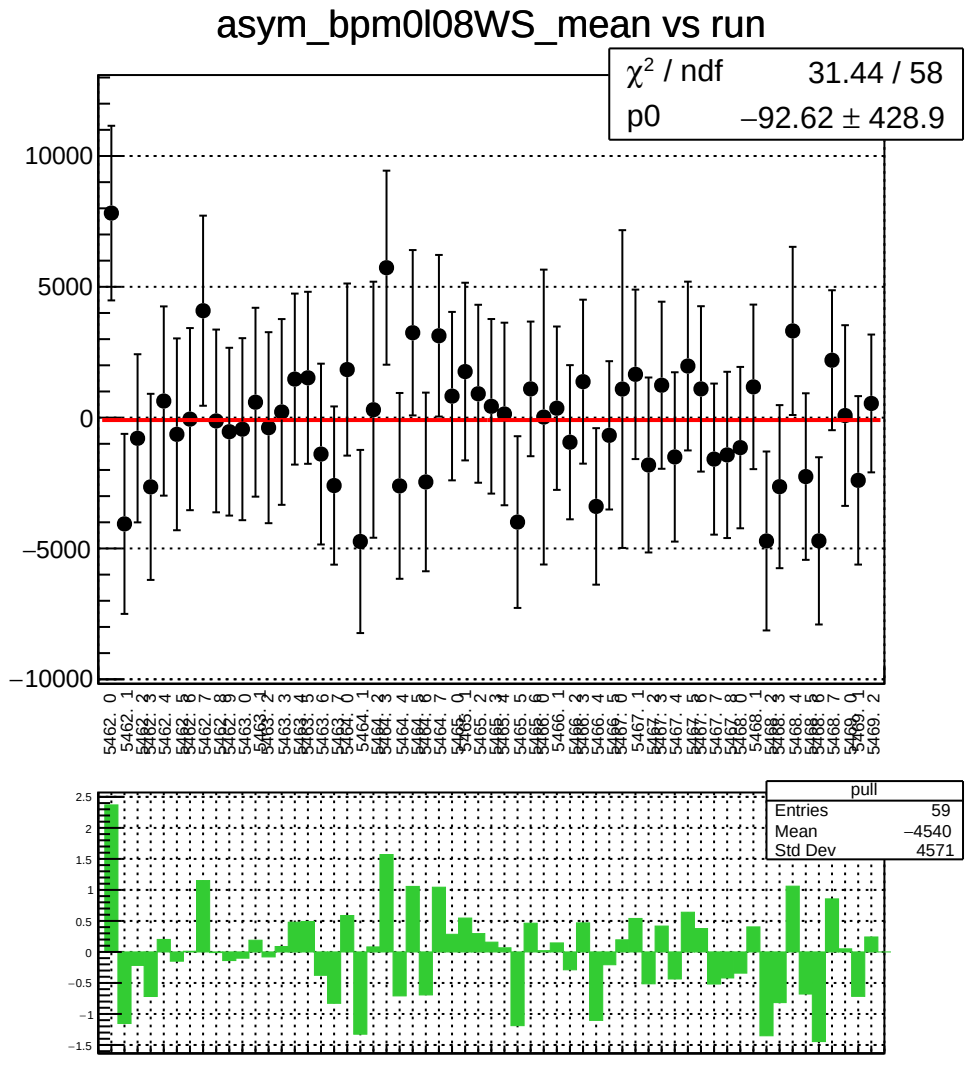

pull1D
Entries 59
Mean 0.001714
Std Dev 0.6318
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

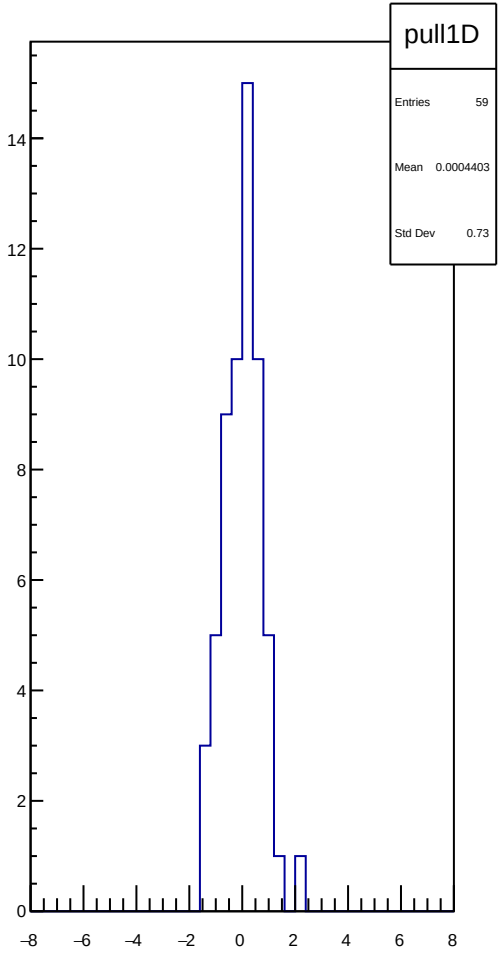

asym_bpm0l06WS_rms vs run
χ² / ndf 1.183e+04 / 58
p0 333.8 ± 0.3153
600
550
500
450
400
350
300
250

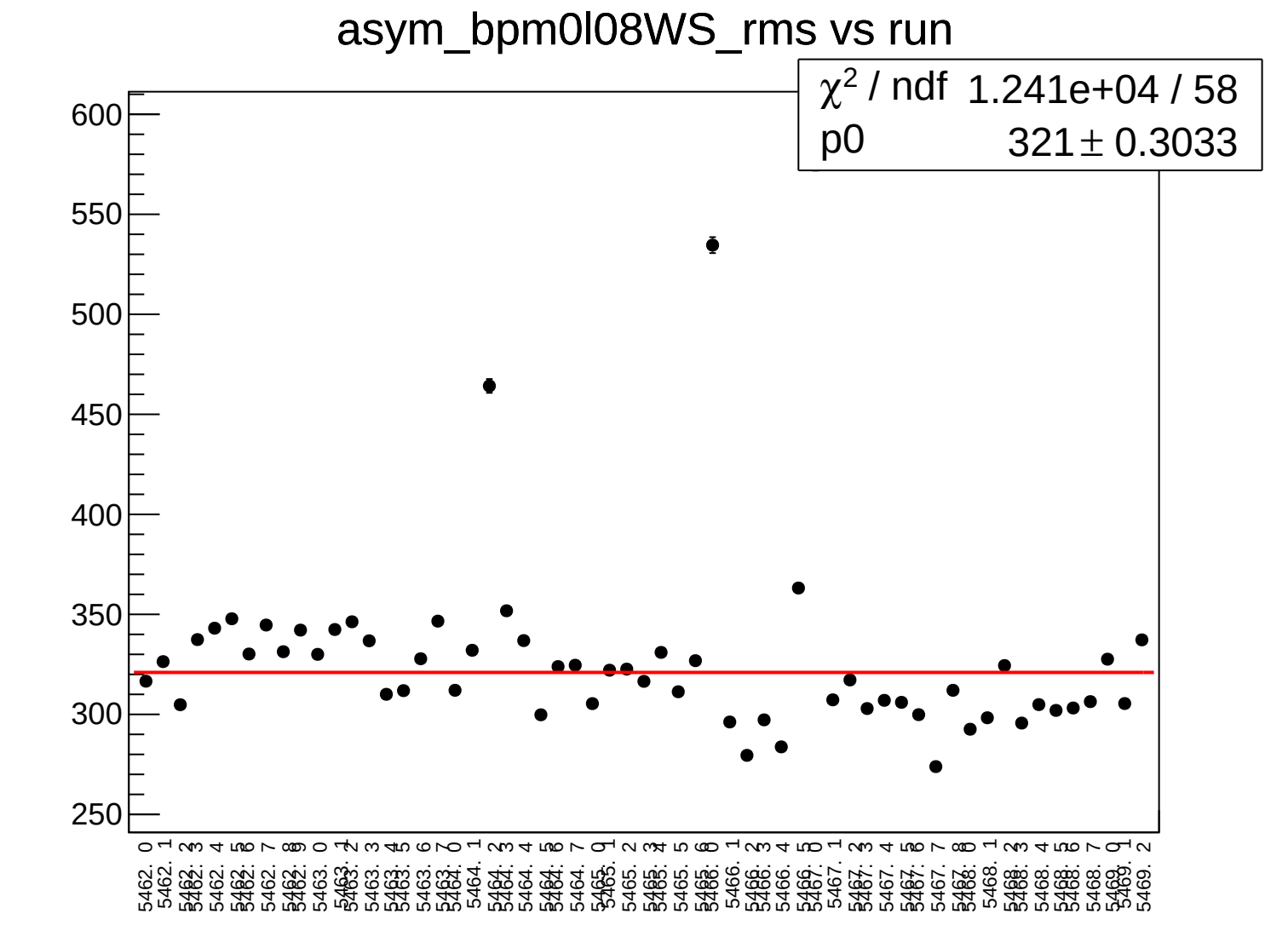

asym_bpm0l07WS_mean vs run
χ^2 / ndf 31.82 / 58
p0 21.26 ± 446.3
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 324.7
Std Dev 288.9
2
1.5
1
0.5
0
−0.5
−1
−1.5

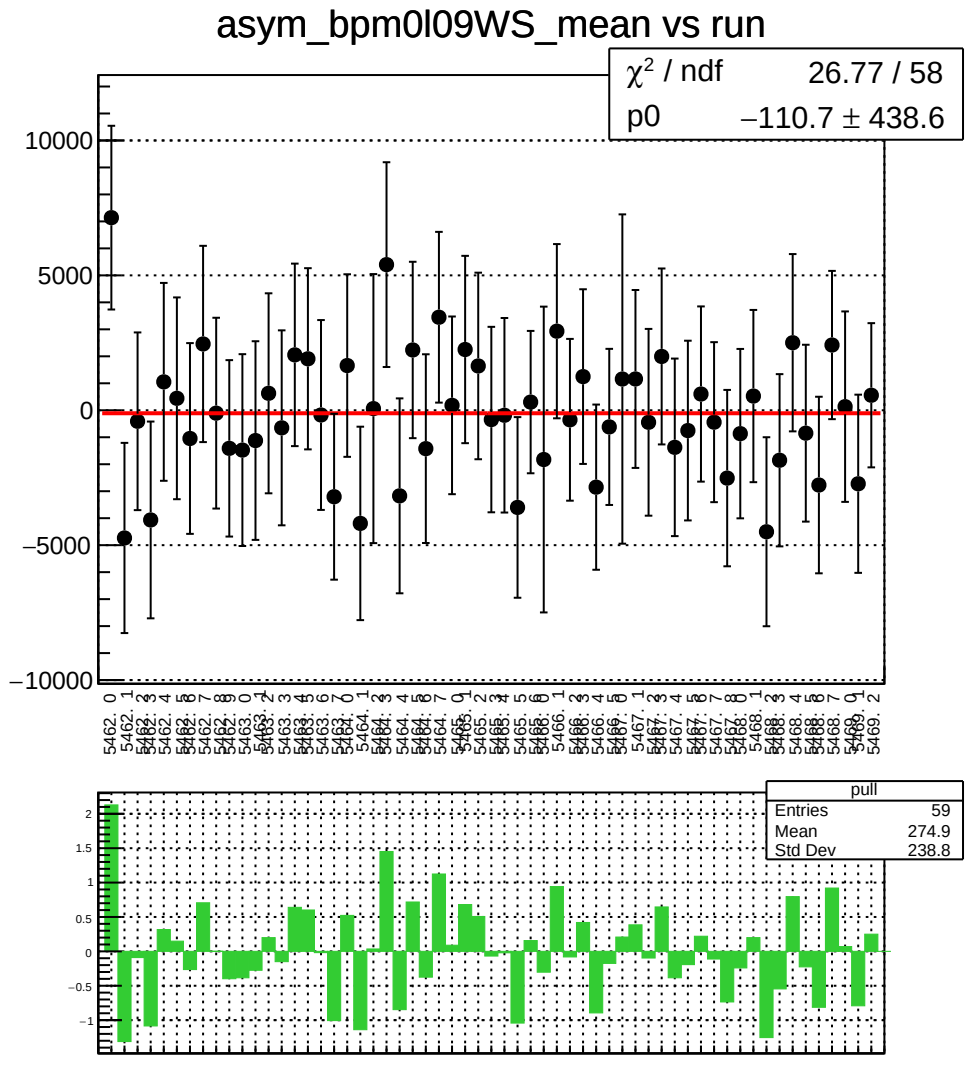

pull1D
Entries 59
Mean −0.006061
Std Dev 0.7343
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

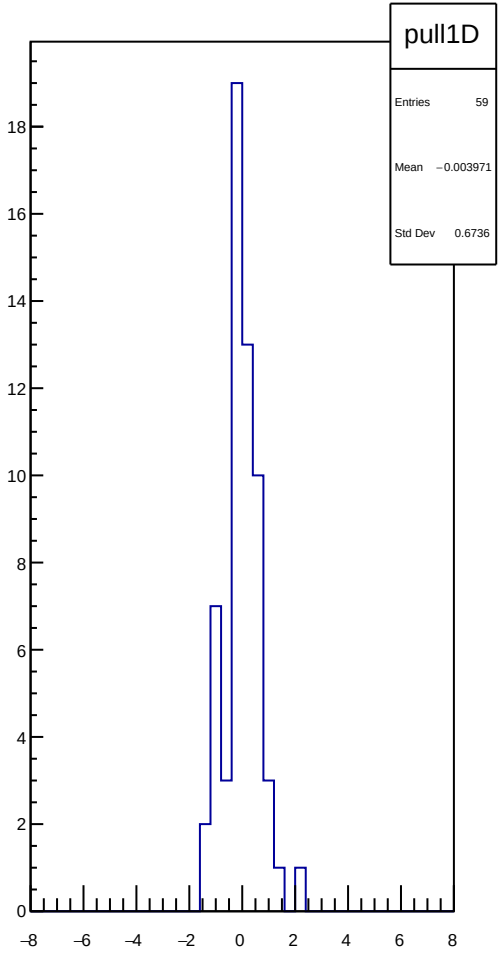

asym_bpm0l07WS_rms vs run
χ² / ndf 1.166e+04 / 58
p0 334.1 ± 0.3156
600
550
500
450
400
350
300

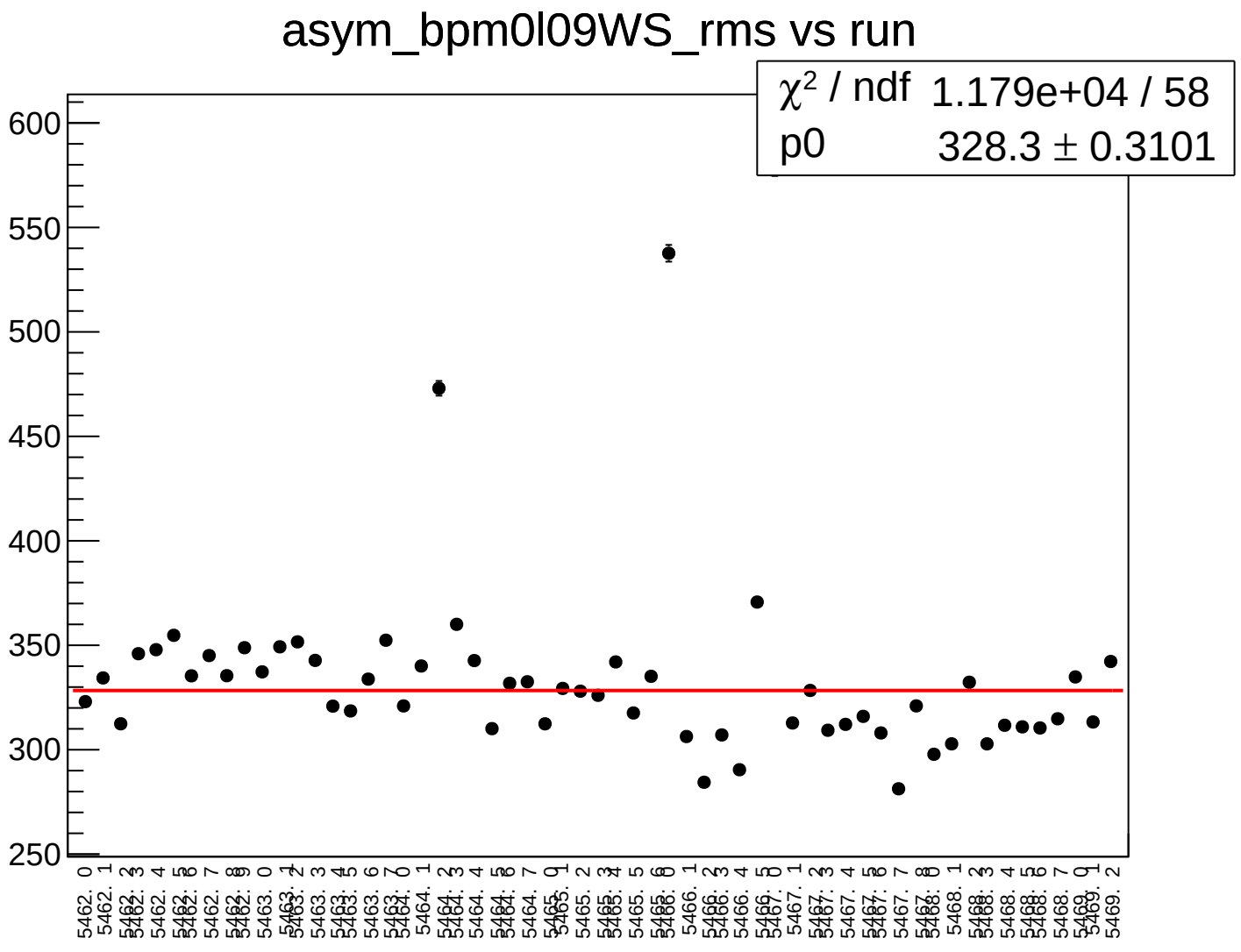

asym_bpm0l08WS_mean vs run
χ² / ndf 31.44 / 58
p0 −92.62 ± 428.9
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −4540
Std Dev 4571
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5

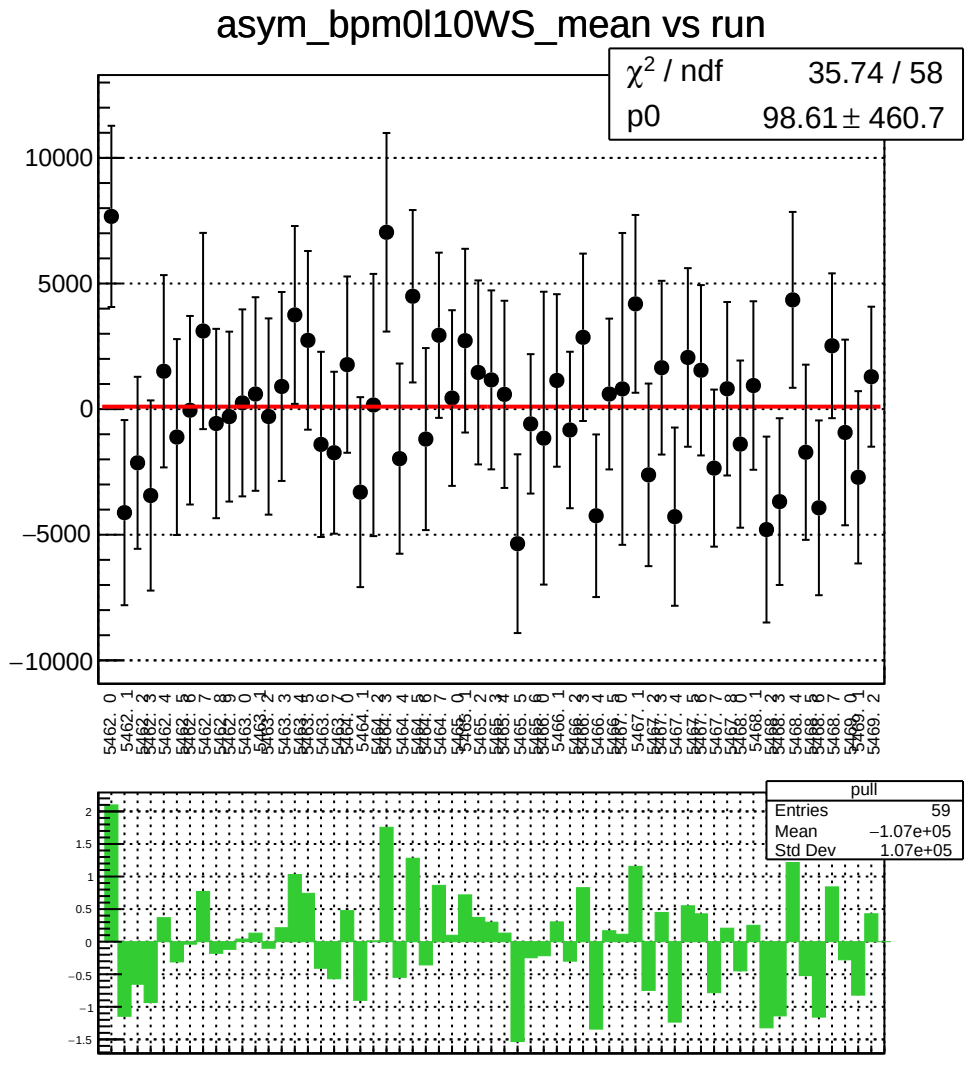

pull1D
Entries 59
Mean 0.0004403
Std Dev 0.73
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

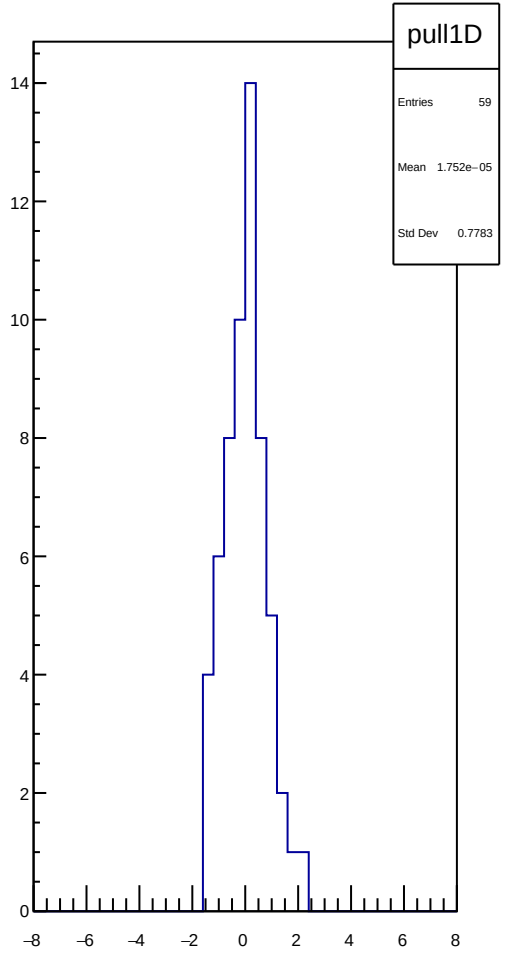

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.241e+04 / 58
p0 321 ± 0.3033
600
550
500
450
400
350
300
250

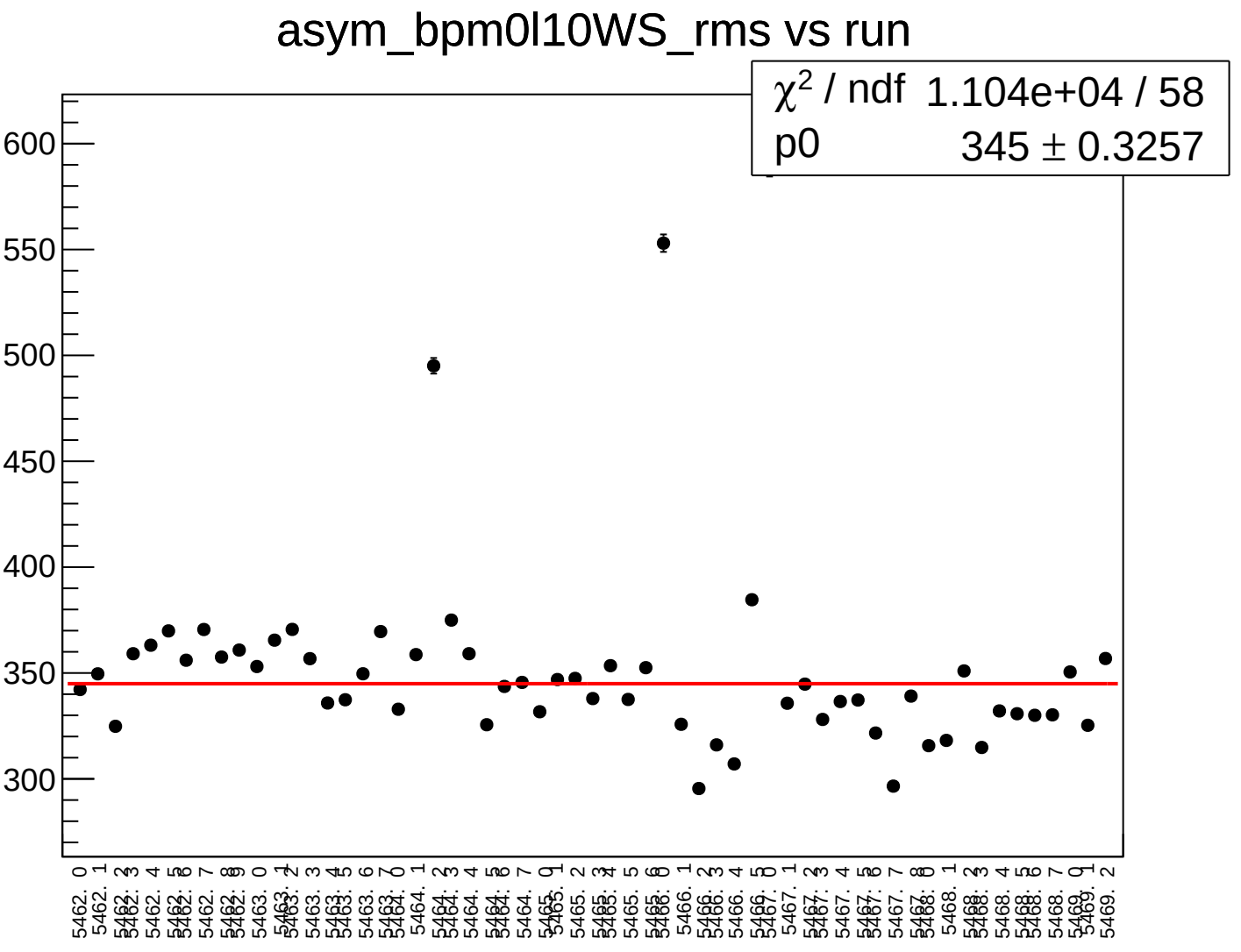

asym_bpm0l09WS_mean vs run
χ² / ndf 26.77 / 58
p0 −110.7 ± 438.6
10000
5000
0
−5000
−10000
pull
Entries 59
Mean 274.9
Std Dev 238.8
2
1.5
1
0.5
0
−0.5
−1

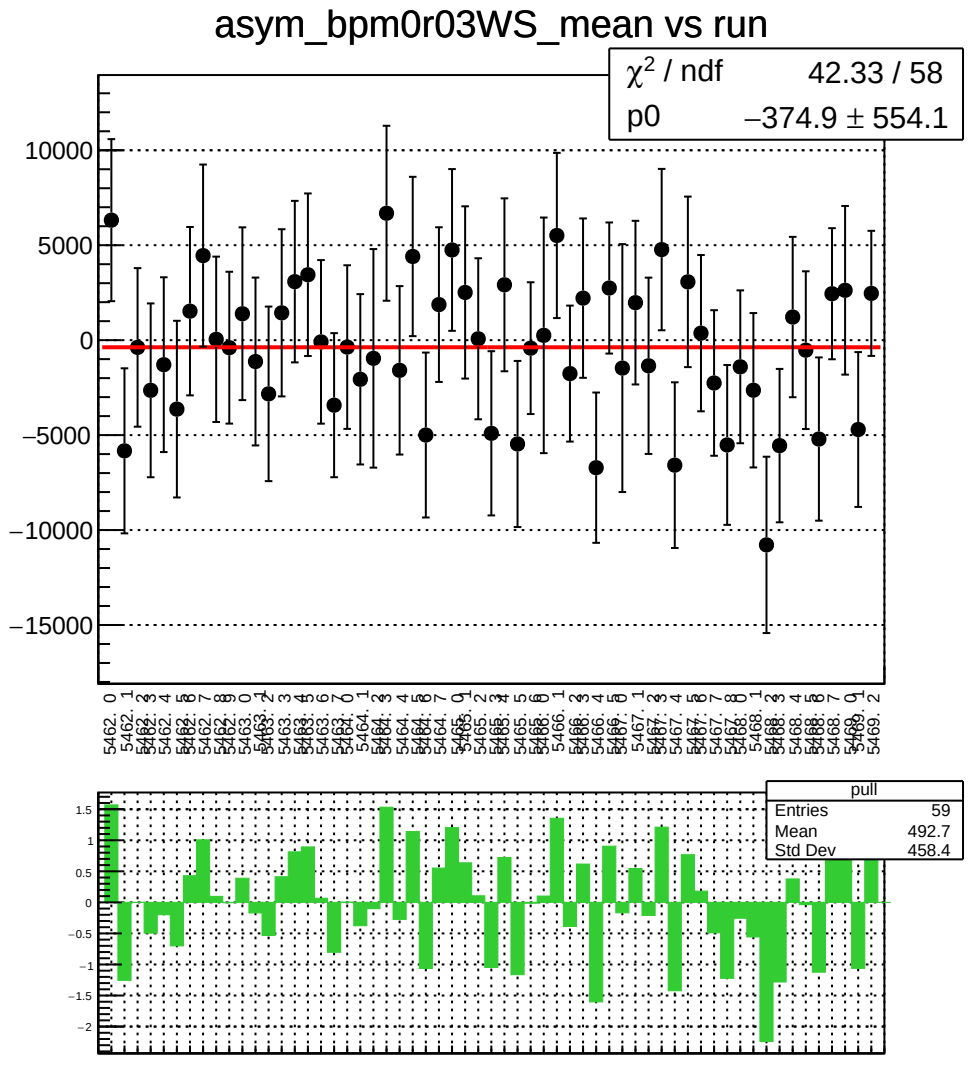

pull1D
Entries 59
Mean −0.003971
Std Dev 0.6736
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

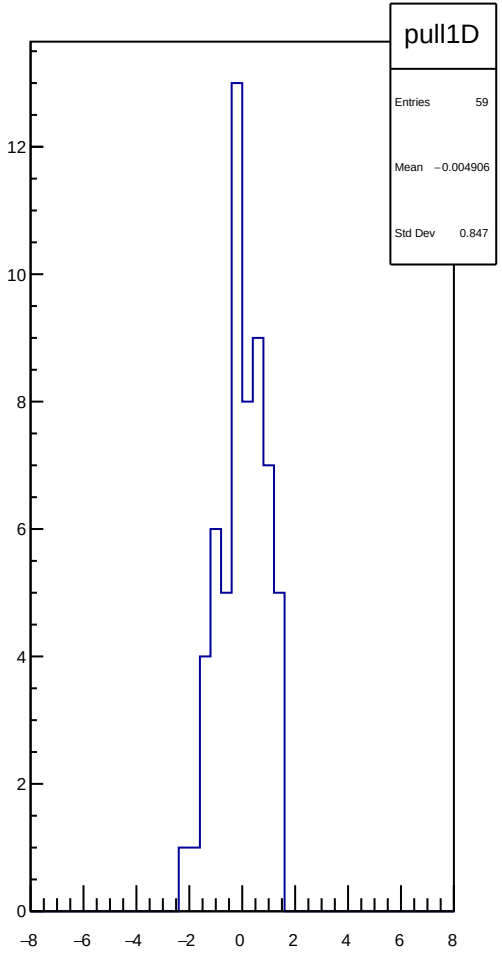

asym_bpm0l09WS_rms vs run
χ² / ndf 1.179e+04 / 58
p0 328.3 ± 0.3101
600
550
500
450
400
350
300
250

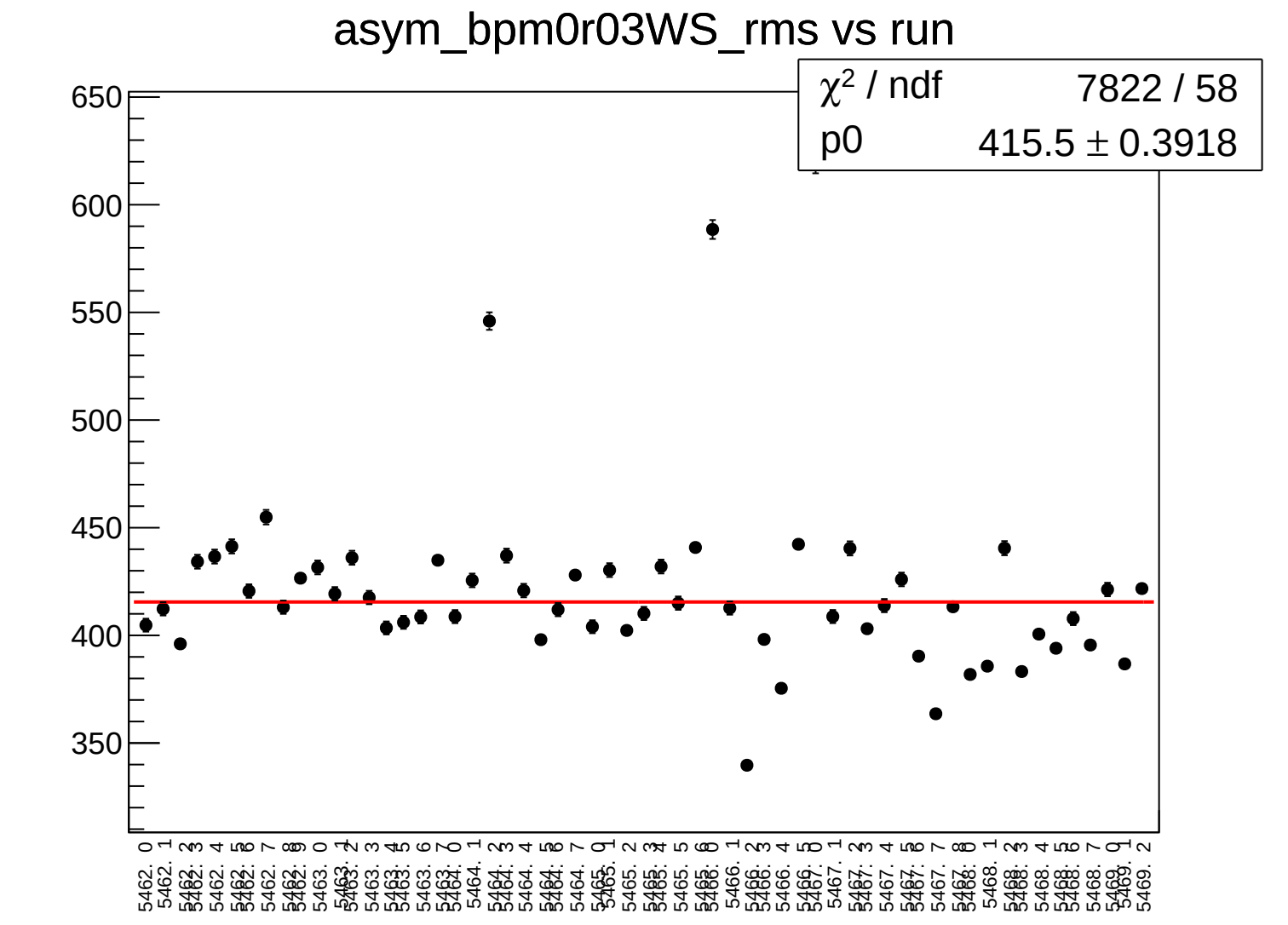

asym_bpm0l10WS_mean vs run
χ^2 / ndf 35.74 / 58
p0 98.61 ± 460.7
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −1.07e+05
Std Dev 1.07e+05
2
1.5
1
0.5
0
−0.5
−1
−1.5

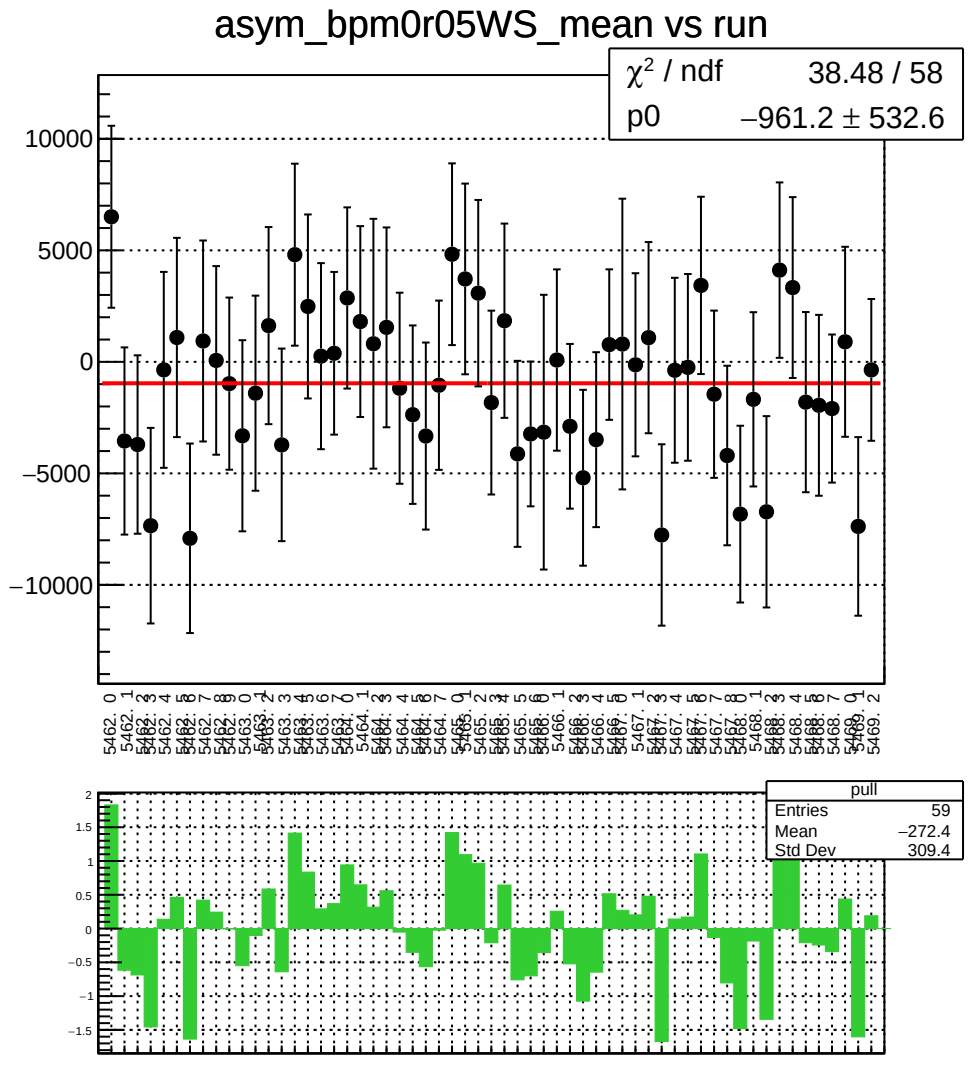

pull1D
Entries 59
Mean 1.752e−05
Std Dev 0.7783
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

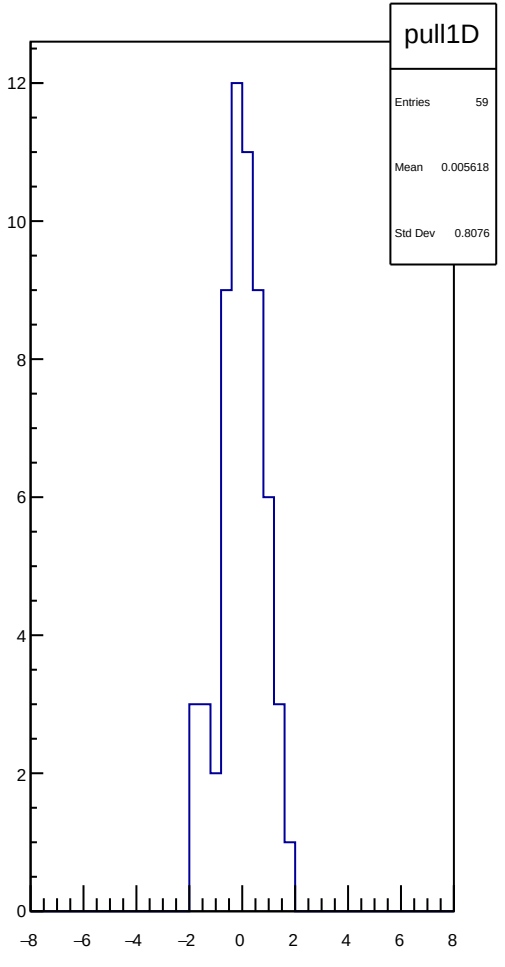

asym_bpm0l10WS_rms vs run
χ^2 / ndf 1.104e+04 / 58
p0 345 ± 0.3257
600
550
500
450
400
350
300

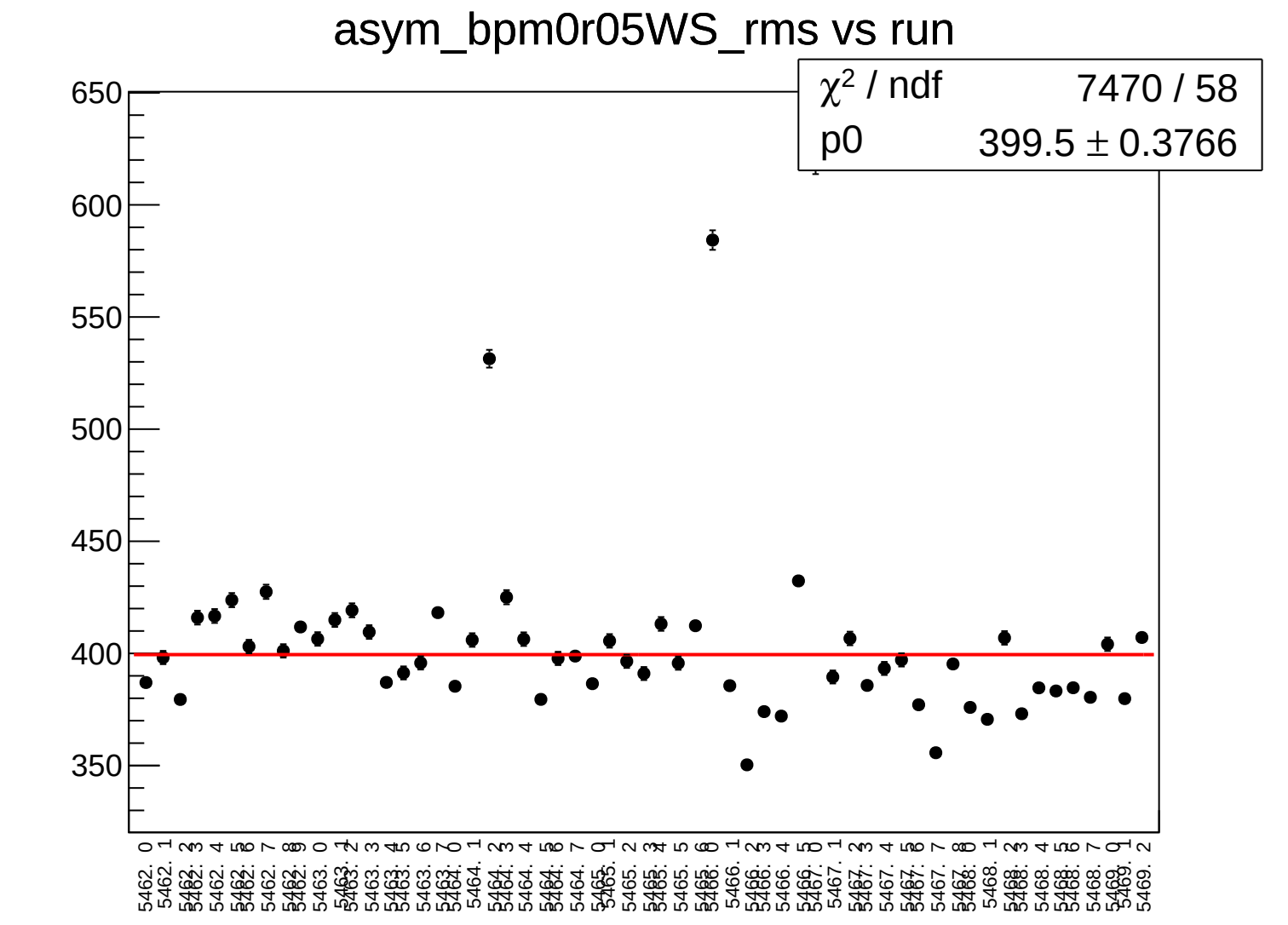

asym_bpm0r03WS_mean vs run
χ² / ndf 42.33 / 58
p0 −374.9 ± 554.1
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean 492.7
Std Dev 458.4
1.5
1
0.5
0
−0.5
−1
−1.5
−2

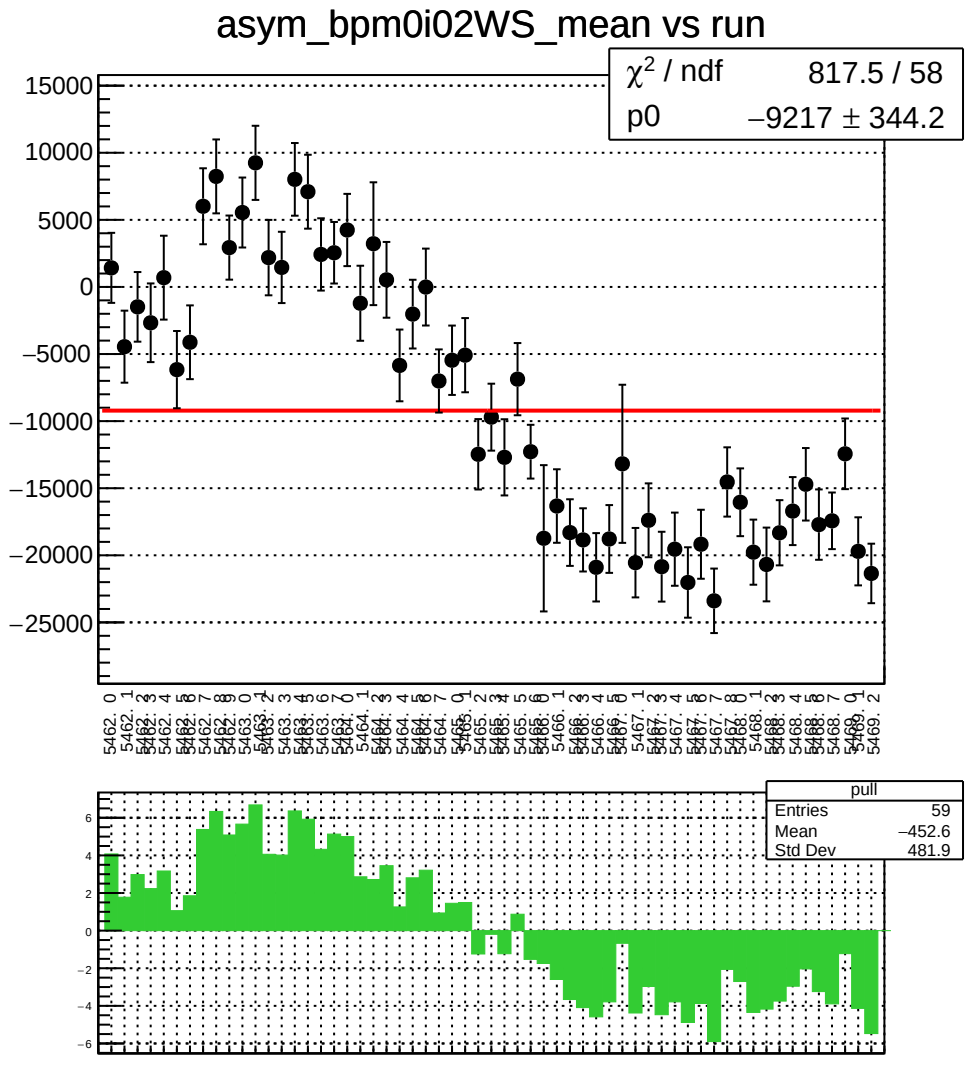

pull1D
Entries 59
Mean −0.004906
Std Dev 0.847
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

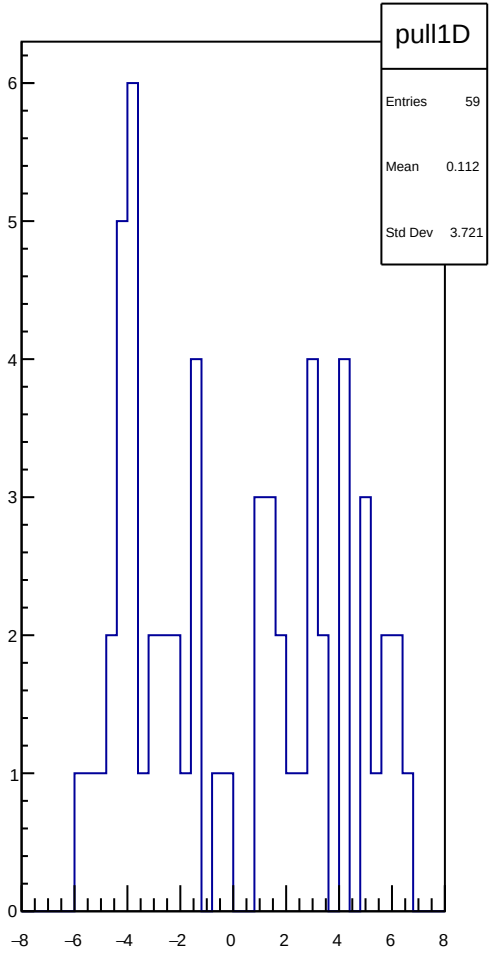

asym_bpm0r03WS_rms vs run
χ² / ndf 7822 / 58
p0 415.5 ± 0.3918
650
600
550
500
450
400
350

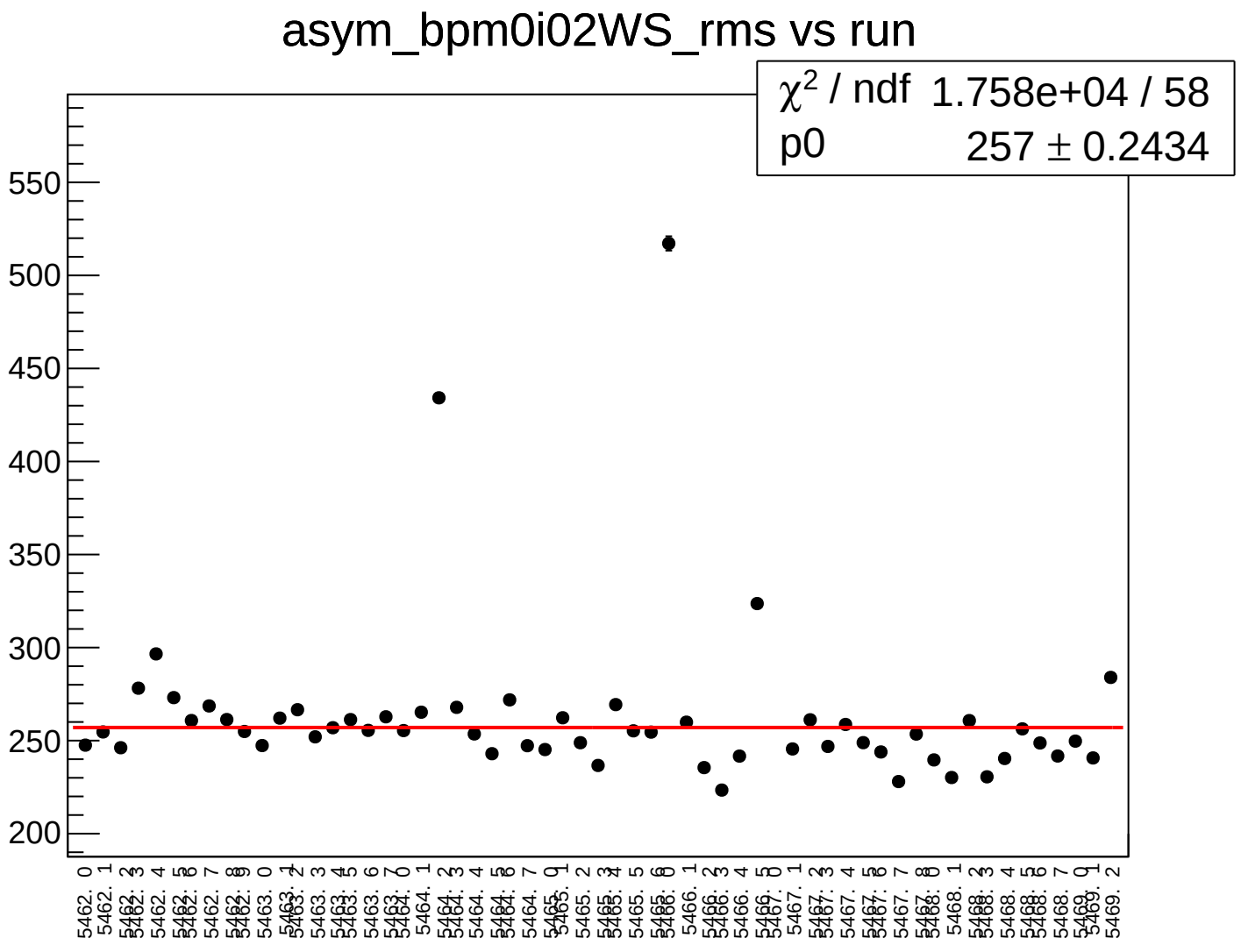

asym_bpm0r05WS_mean vs run
χ² / ndf 38.48 / 58
p0 −961.2 ± 532.6
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −272.4
Std Dev 309.4
2
1.5
1
0.5
0
−0.5
−1
−1.5

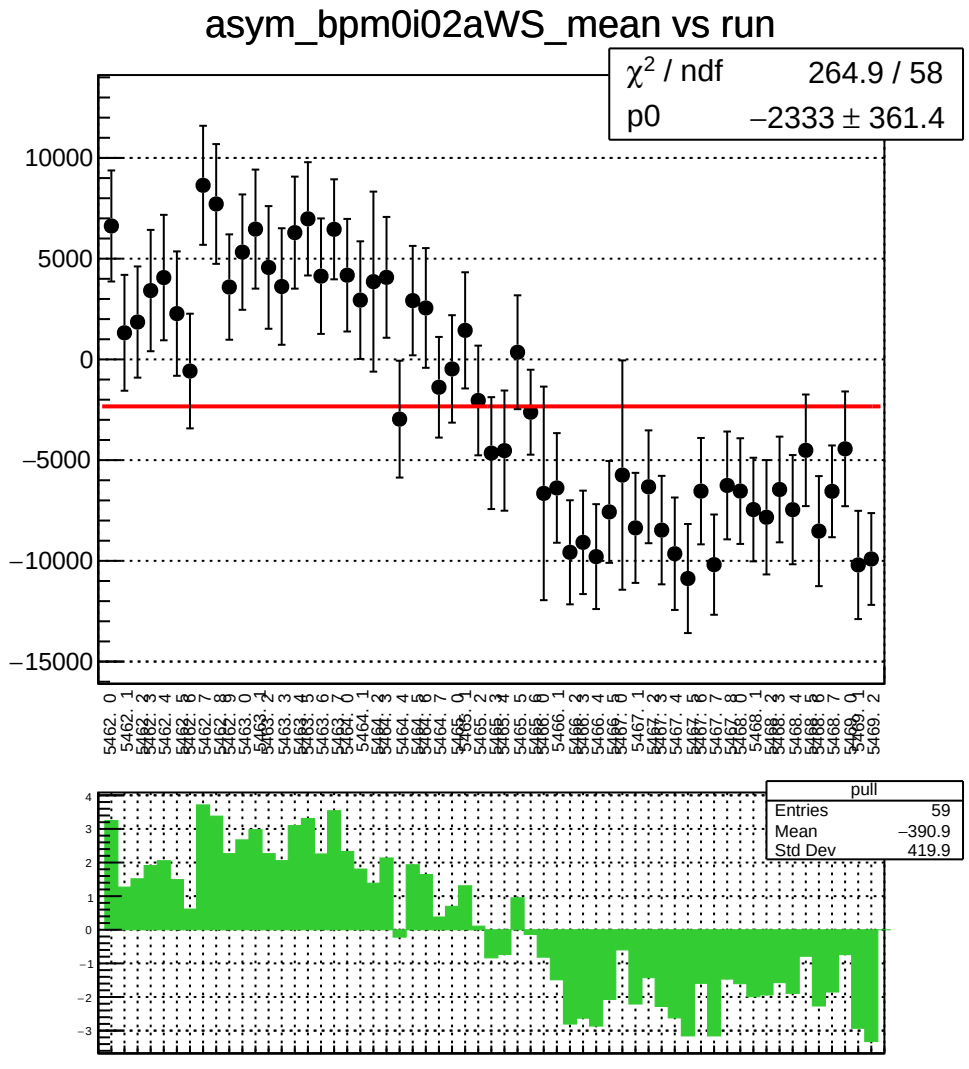

pull1D
Entries 59
Mean 0.005618
Std Dev 0.8076
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

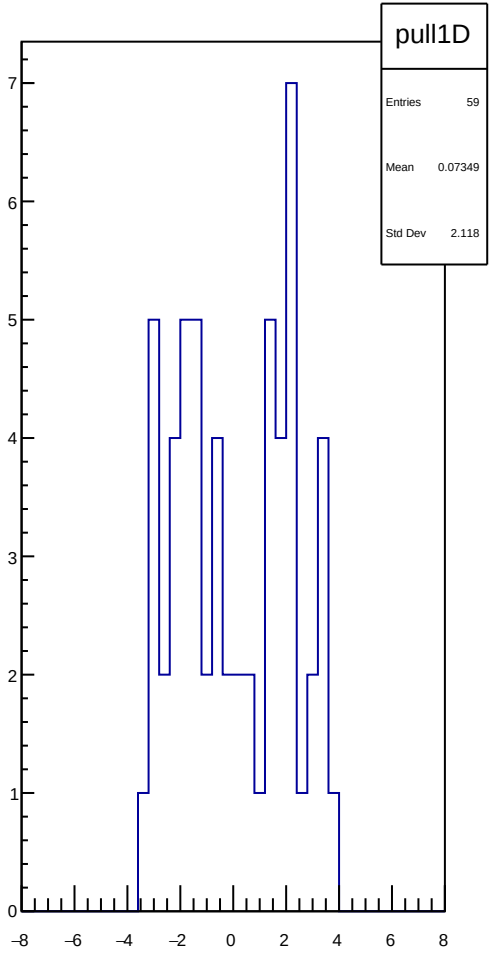

asym_bpm0r05WS_rms vs run
χ² / ndf 7470 / 58
p0 399.5 ± 0.3766
650
600
550
500
450
400
350

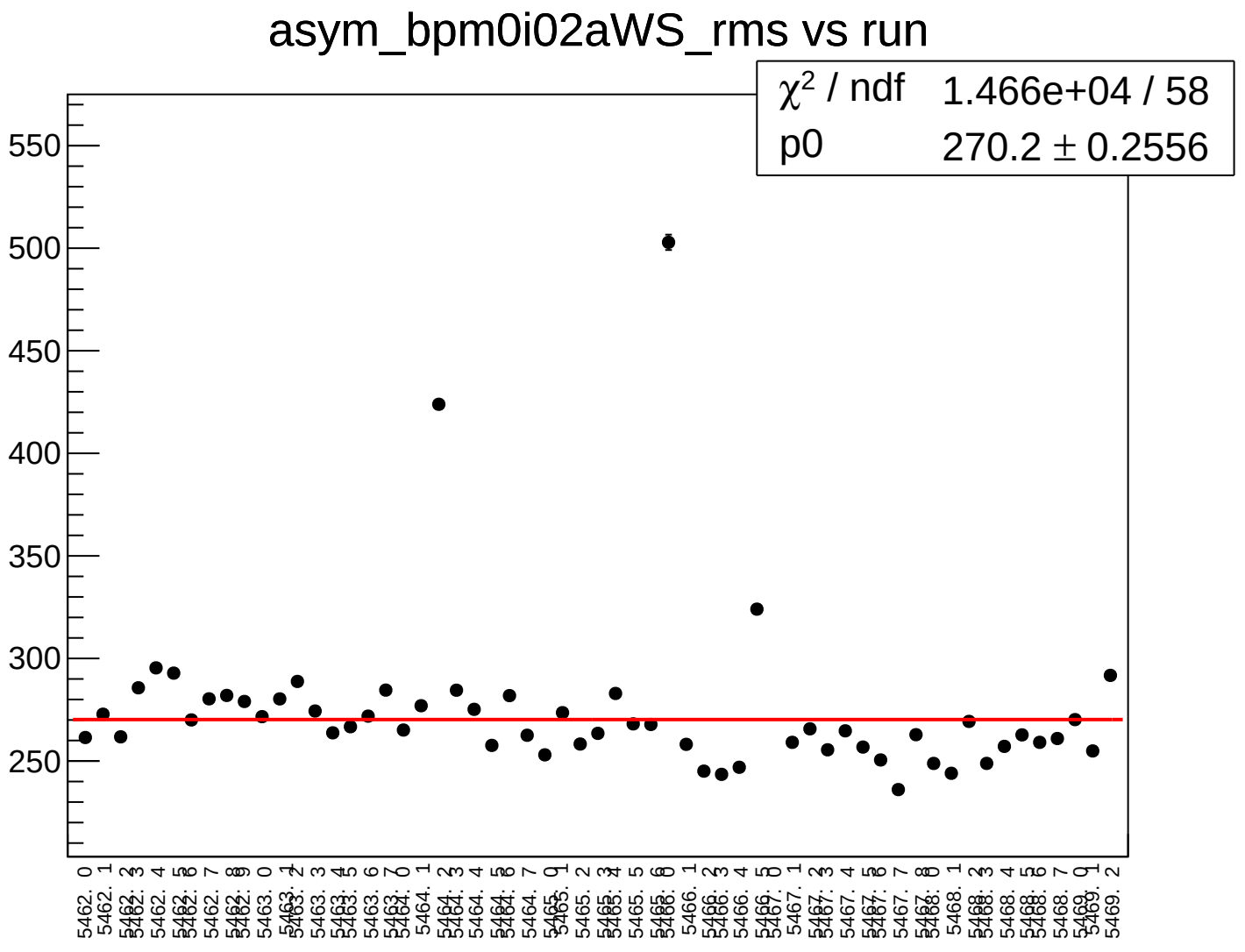

asym_bpm0i02WS_mean vs run
χ² / ndf 817.5 / 58
p0 −9217 ± 344.2
pull
Entries 59
Mean −452.6
Std Dev 481.9

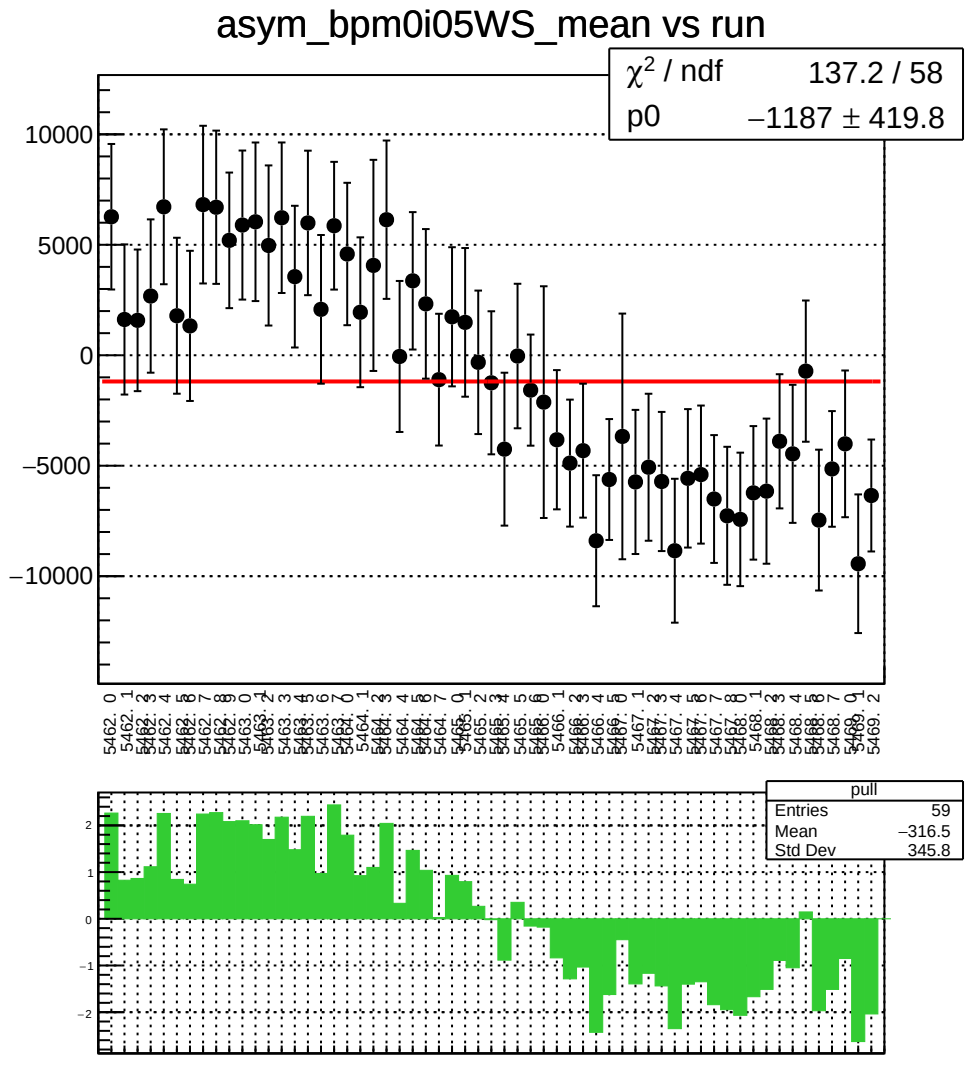

pull1D
Entries 59
Mean 0.112
Std Dev 3.721

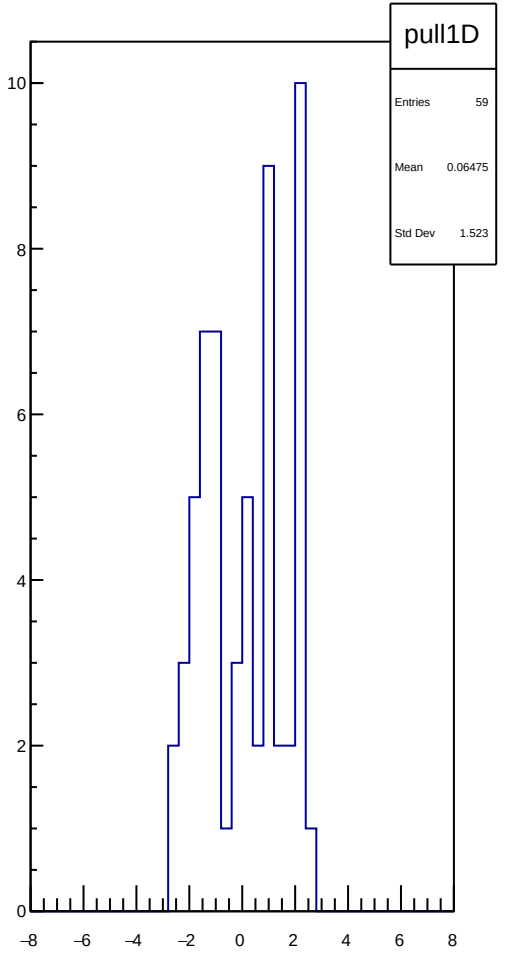

asym_bpm0i02WS_rms vs run
χ² / ndf 1.758e+04 / 58
p0 257 ± 0.2434
550
500
450
400
350
300
250
200

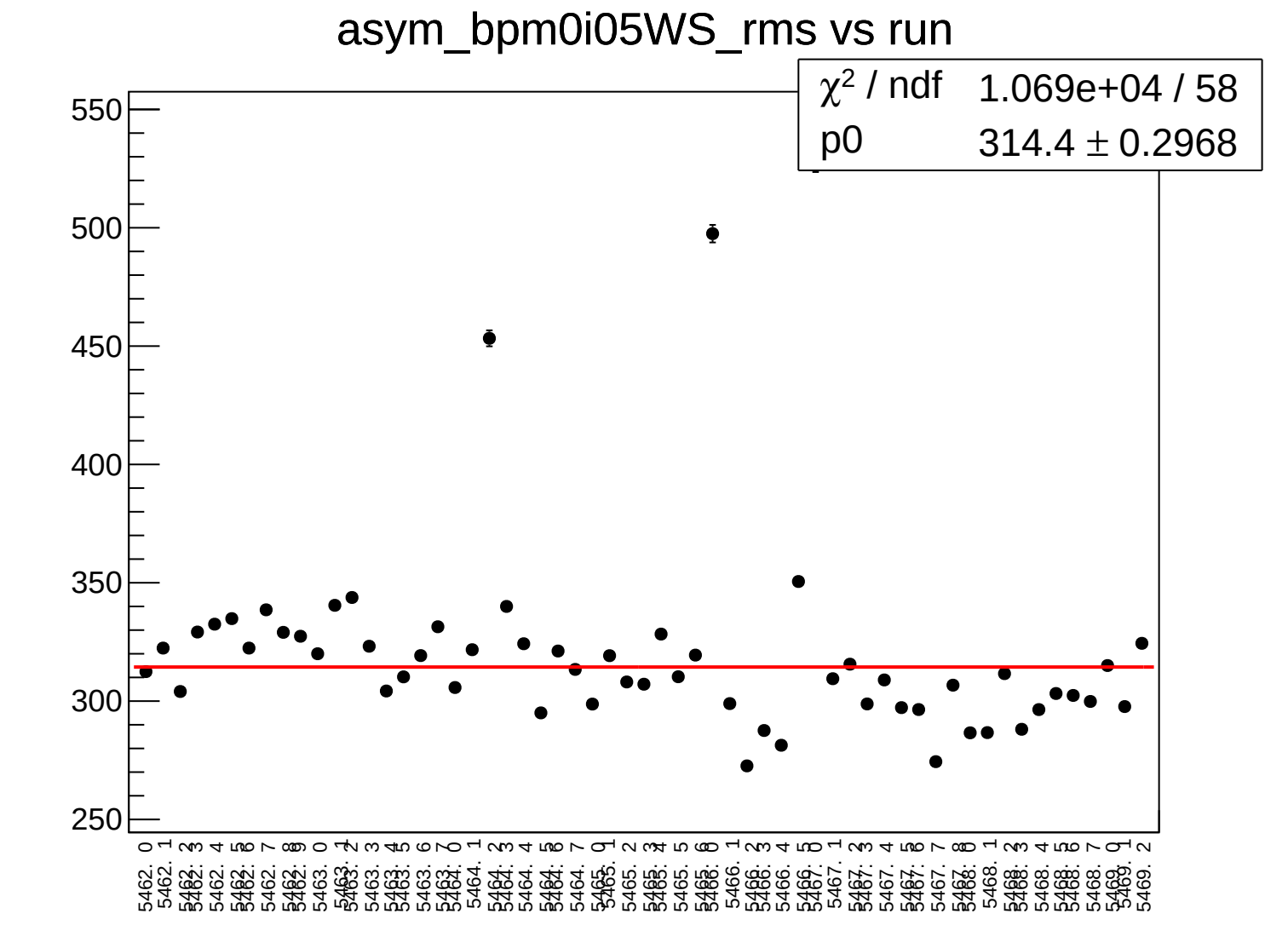

asym_bpm0i02aWS_mean vs run
χ² / ndf 264.9 / 58
p0 −2333 ± 361.4
10000
5000
0
−5000
−10000
−15000
pull
Entries 59
Mean −390.9
Std Dev 419.9
4
3
2
1
0
−1
−2
−3

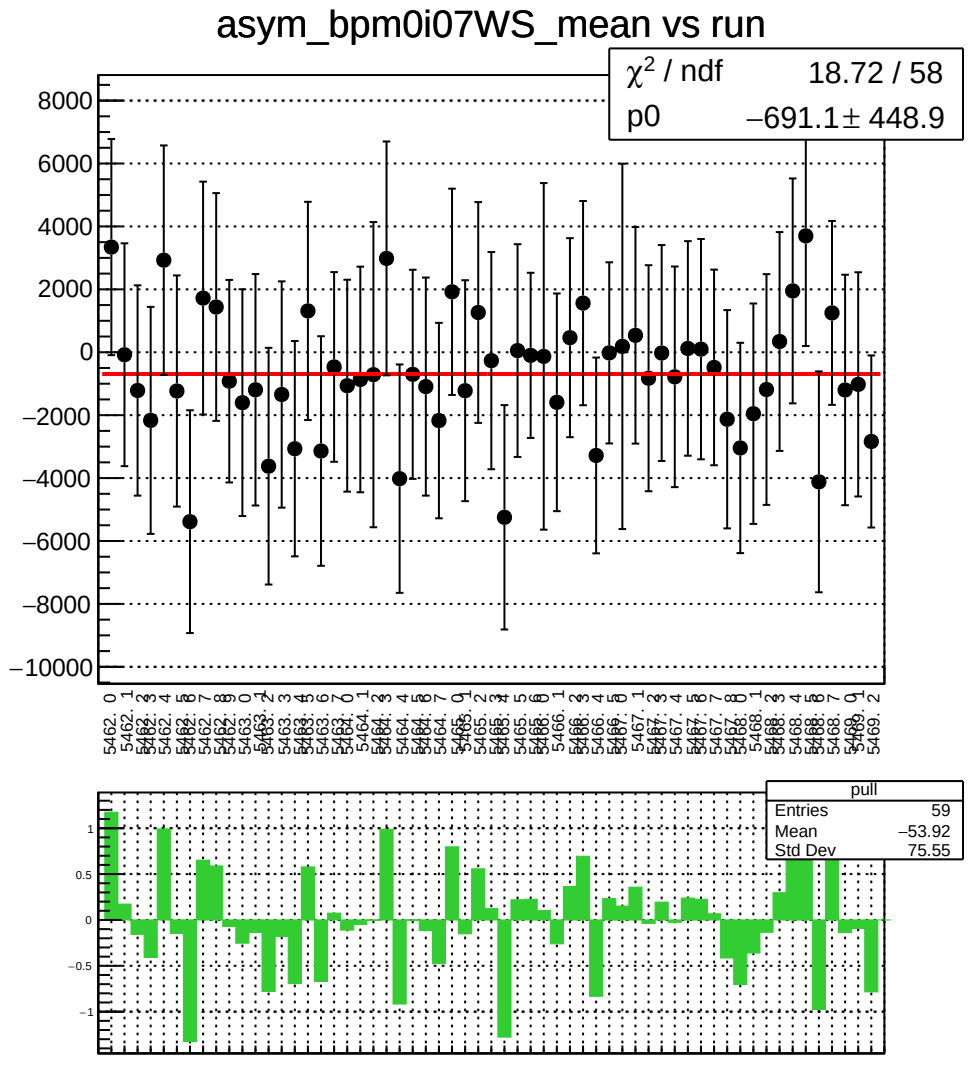

pull1D
Entries 59
Mean 0.07349
Std Dev 2.118
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

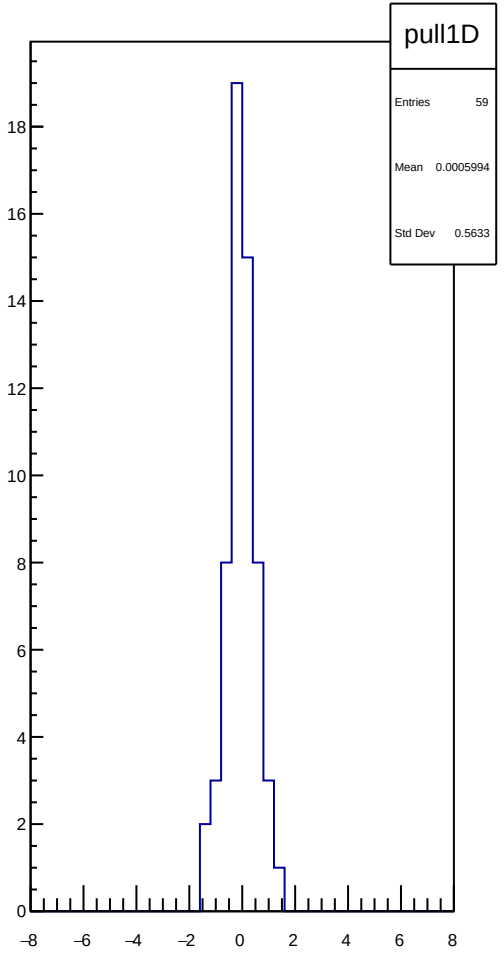

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.466e+04 / 58
p0 270.2 ± 0.2556
550
500
450
400
350
300
250

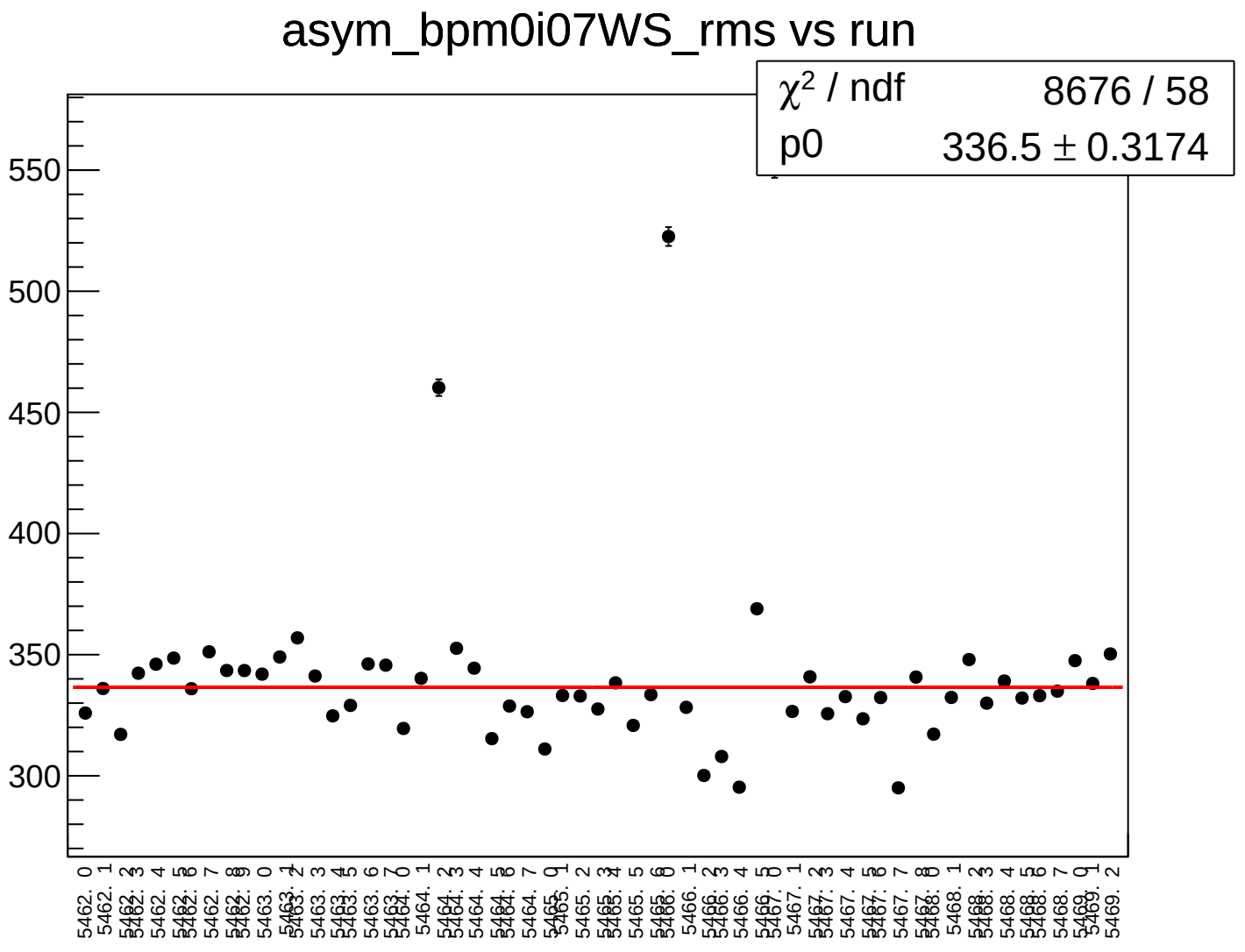

asym_bpm0i05WS_mean vs run
χ^2 / ndf 137.2 / 58
p0 −1187 ± 419.8
10000
5000
0
−5000
−10000
pull
Entries 59
Mean −316.5
Std Dev 345.8
2
1
0
−1
−2

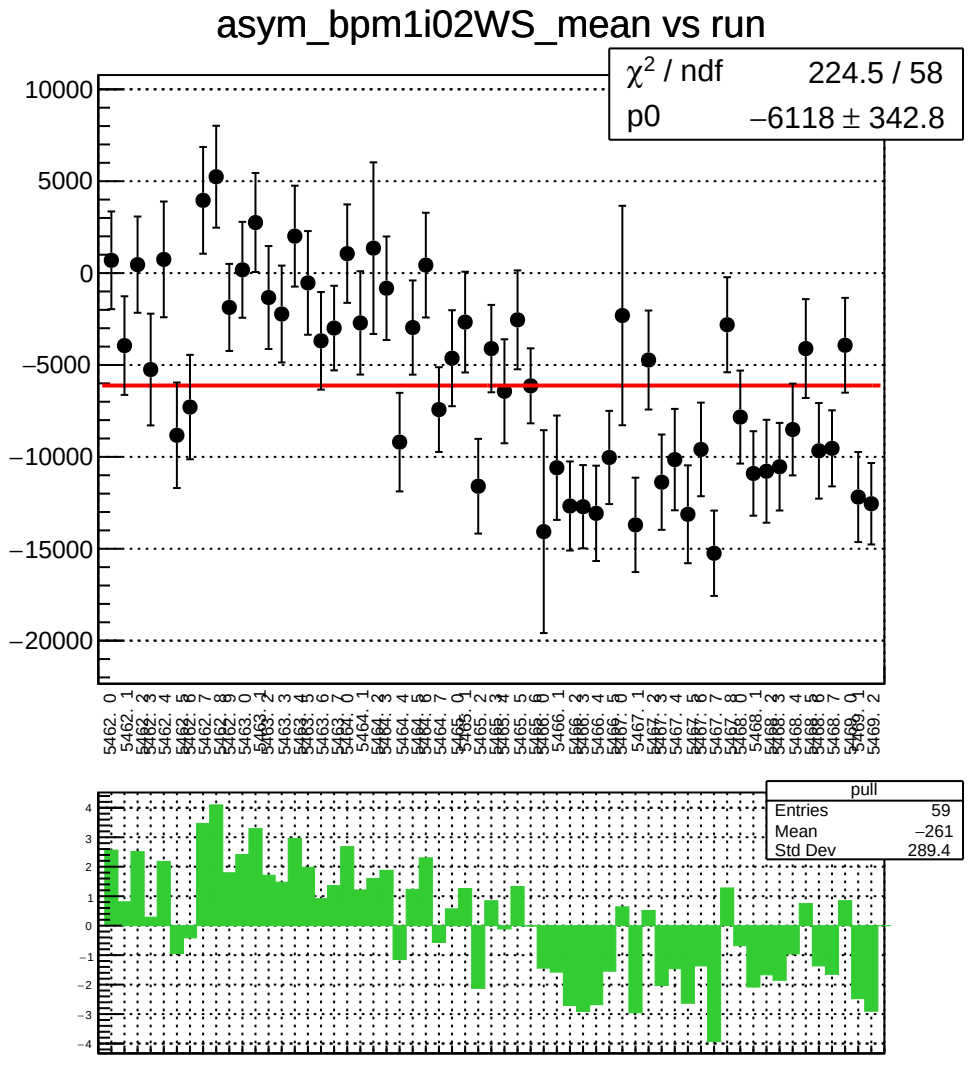

pull1D
Entries 59
Mean 0.06475
Std Dev 1.523
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

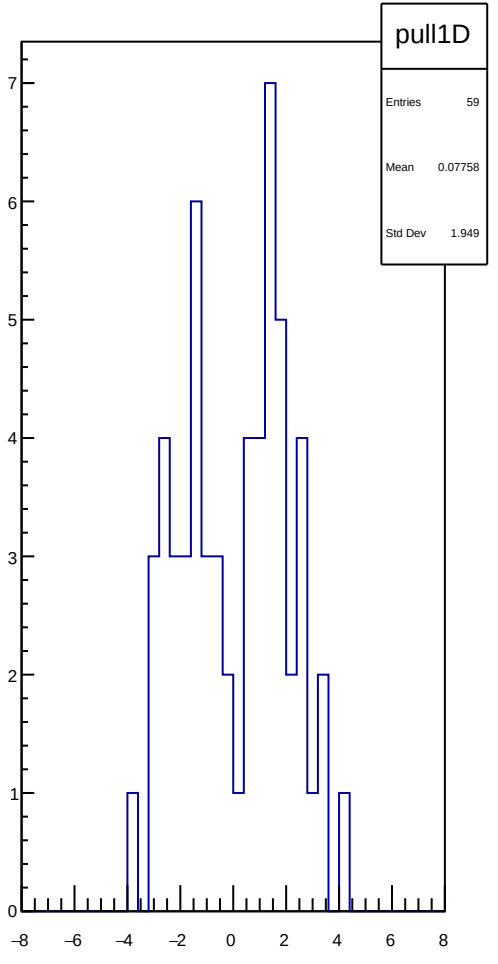

asym_bpm0i05WS_rms vs run
χ² / ndf 1.069e+04 / 58
p0 314.4 ± 0.2968
550
500
450
400
350
300
250

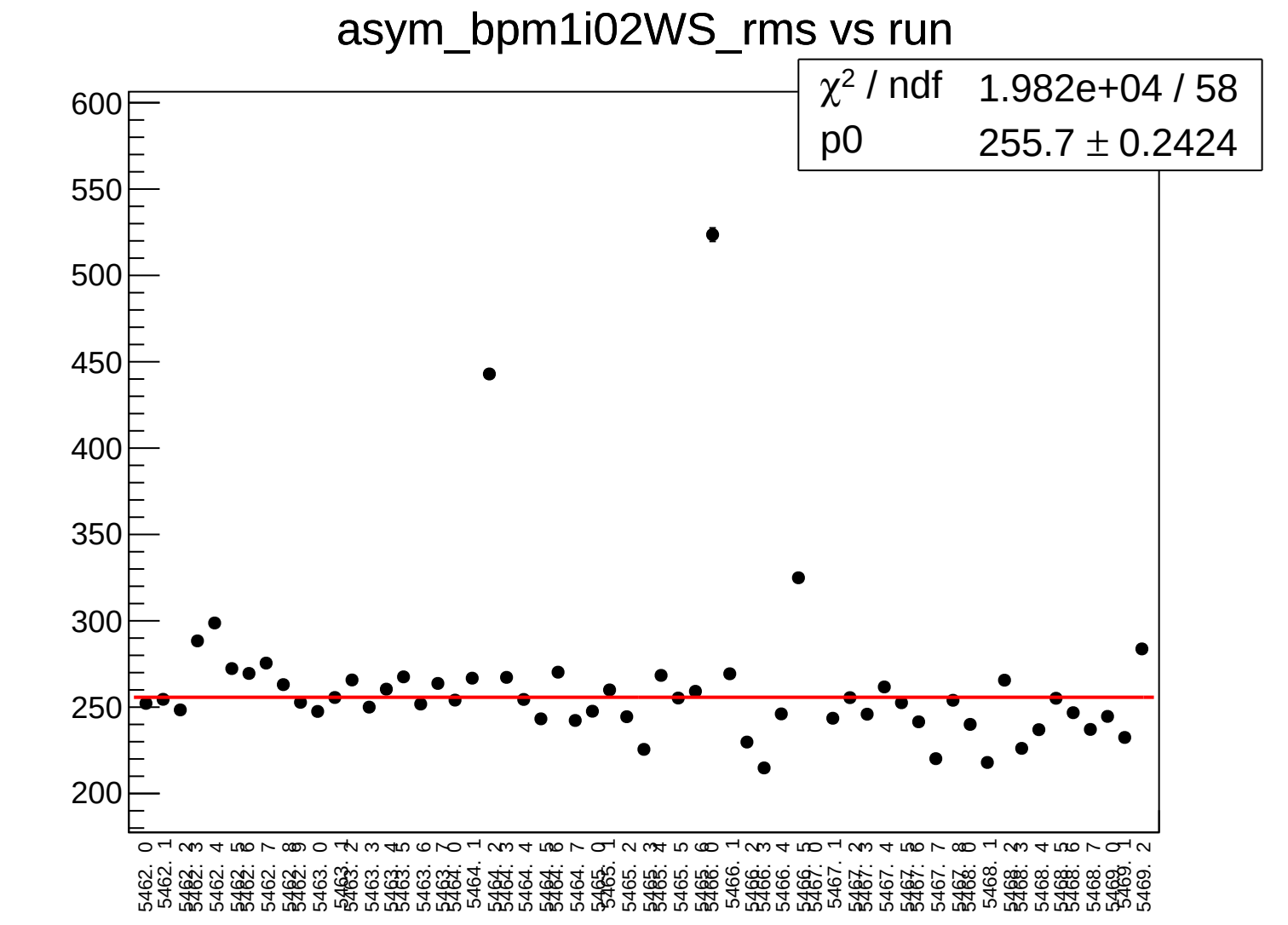

asym_bpm0i07WS_mean vs run
χ² / ndf 18.72 / 58
p0 −691.1 ± 448.9
pull
Entries 59
Mean −53.92
Std Dev 75.55

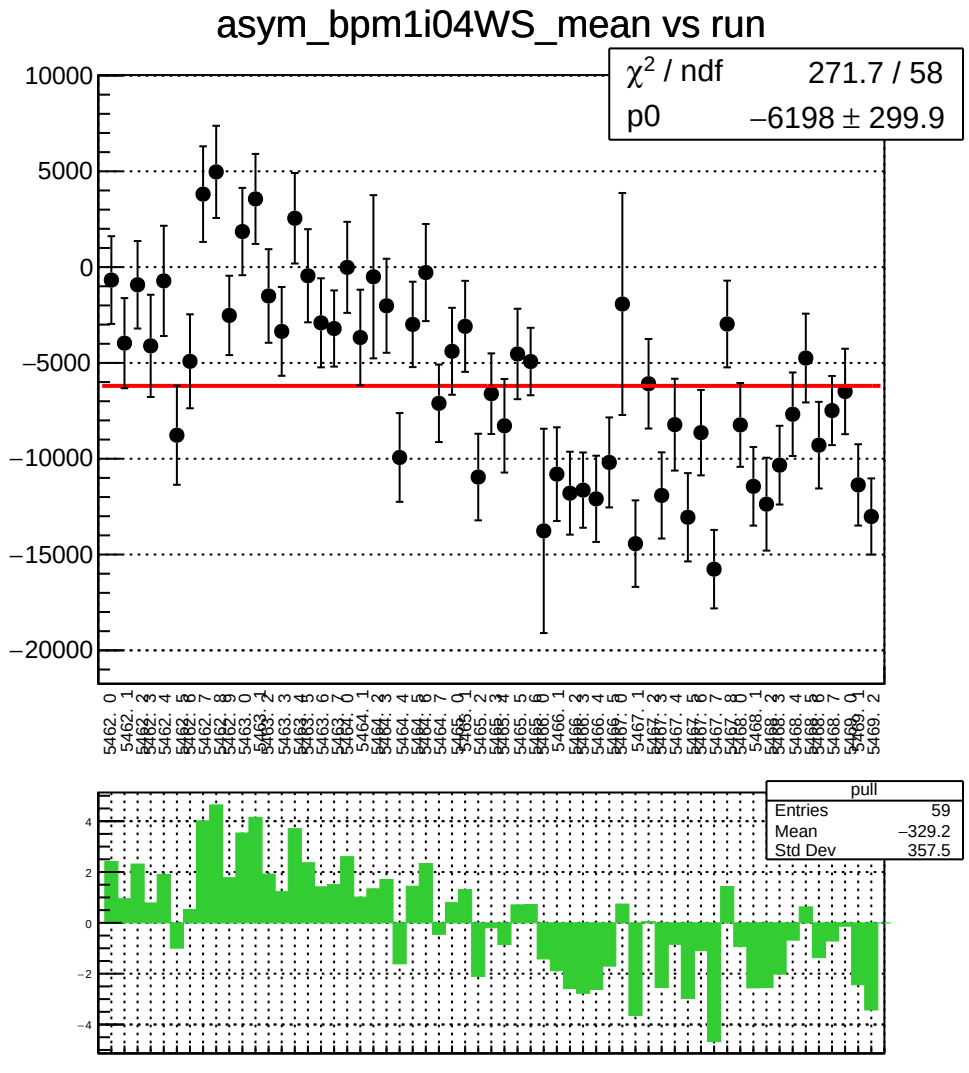

pull1D
Entries 59
Mean 0.0005994
Std Dev 0.5633

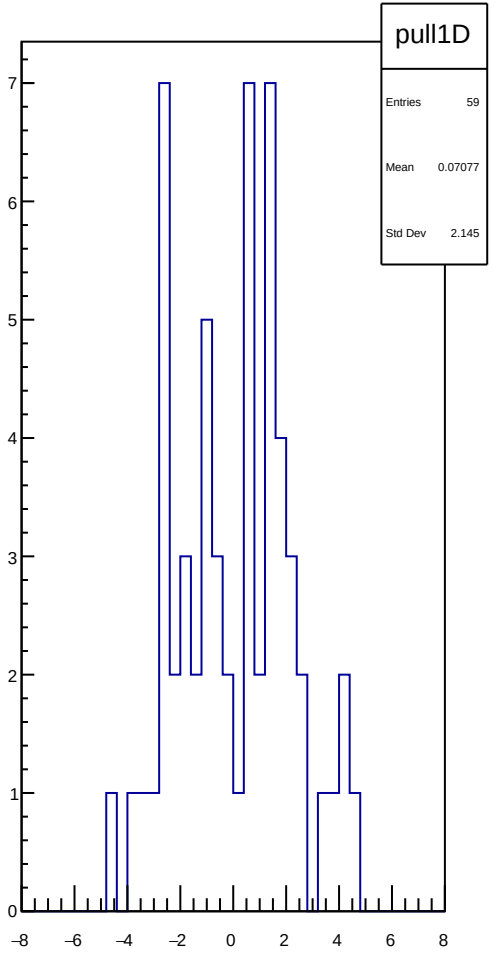

asym_bpm0i07WS_rms vs run
χ^2 / ndf 8676 / 58
p0 336.5 ± 0.3174
550
500
450
400
350
300

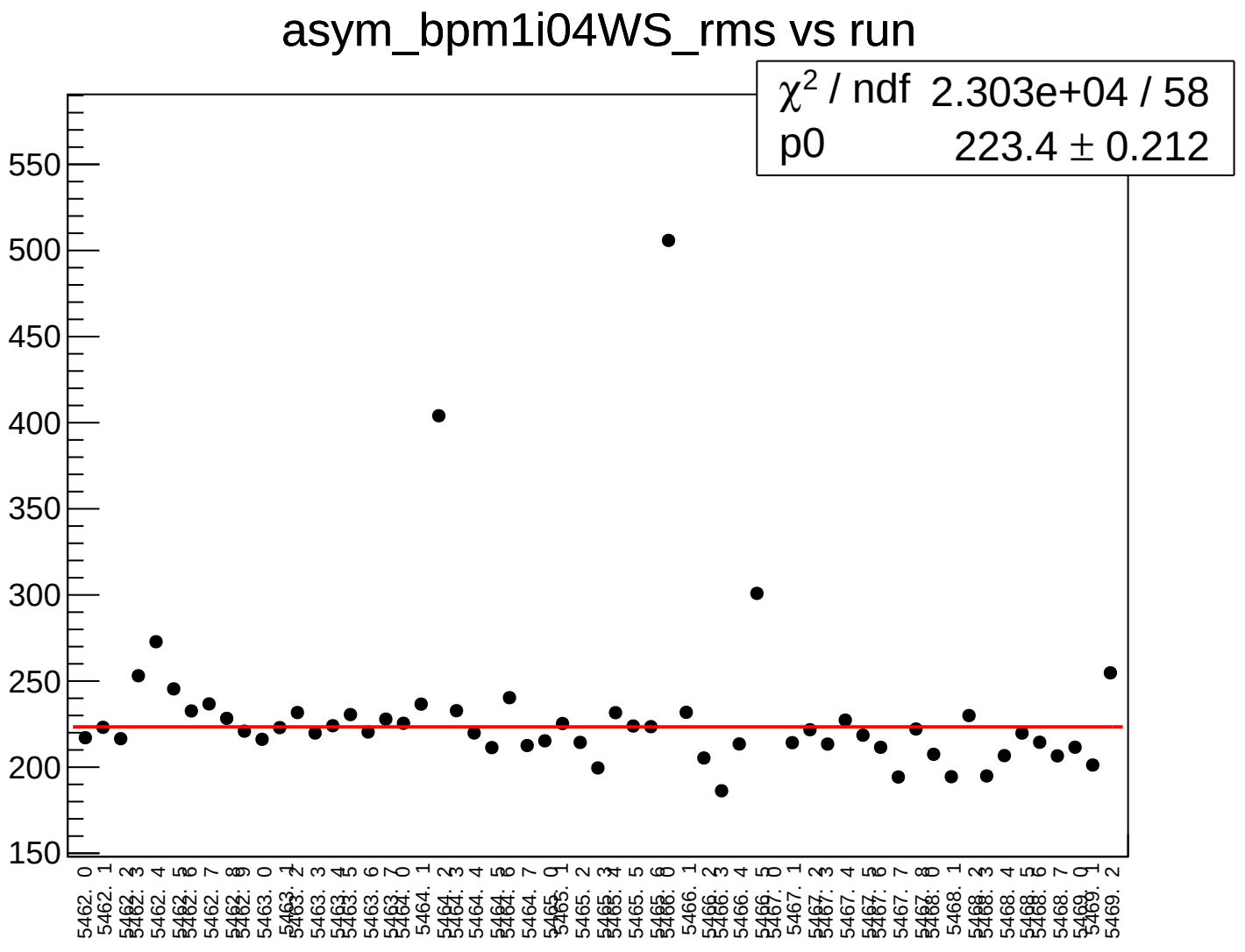

asym_bpm1i02WS_mean vs run
χ² / ndf 224.5 / 58
p0 −6118 ± 342.8
pull
Entries 59
Mean −261
Std Dev 289.4

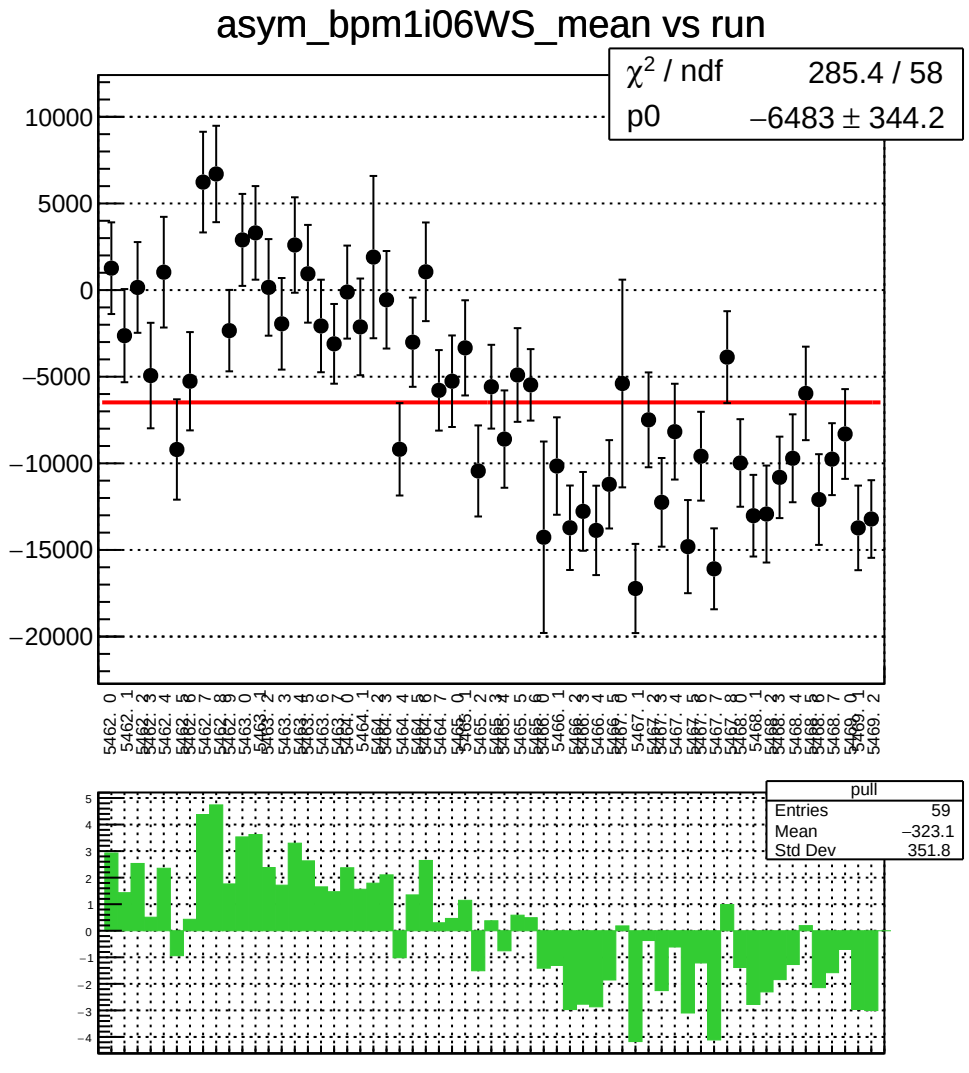

pull1D
Entries 59
Mean 0.07758
Std Dev 1.949

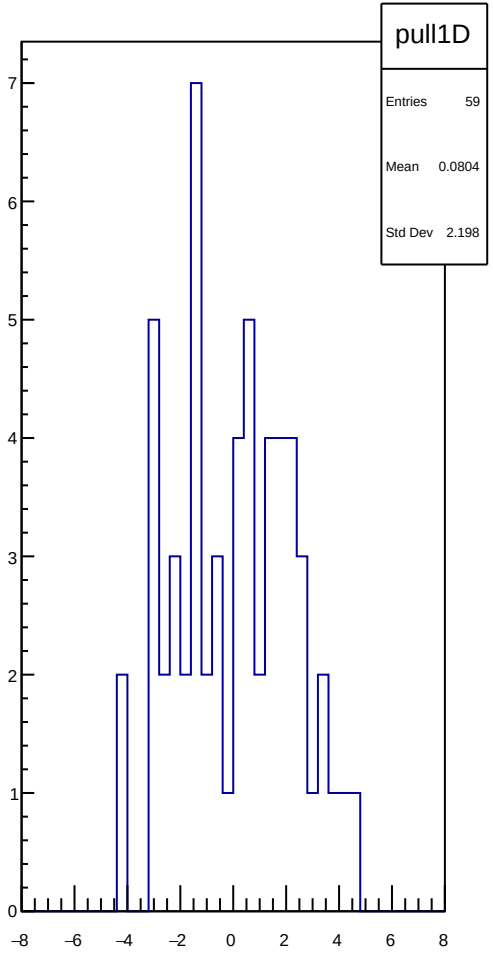

asym_bpm1i02WS_rms vs run
χ^2 / ndf 1.982e+04 / 58
p0 255.7 ± 0.2424
600
550
500
450
400
350
300
250
200

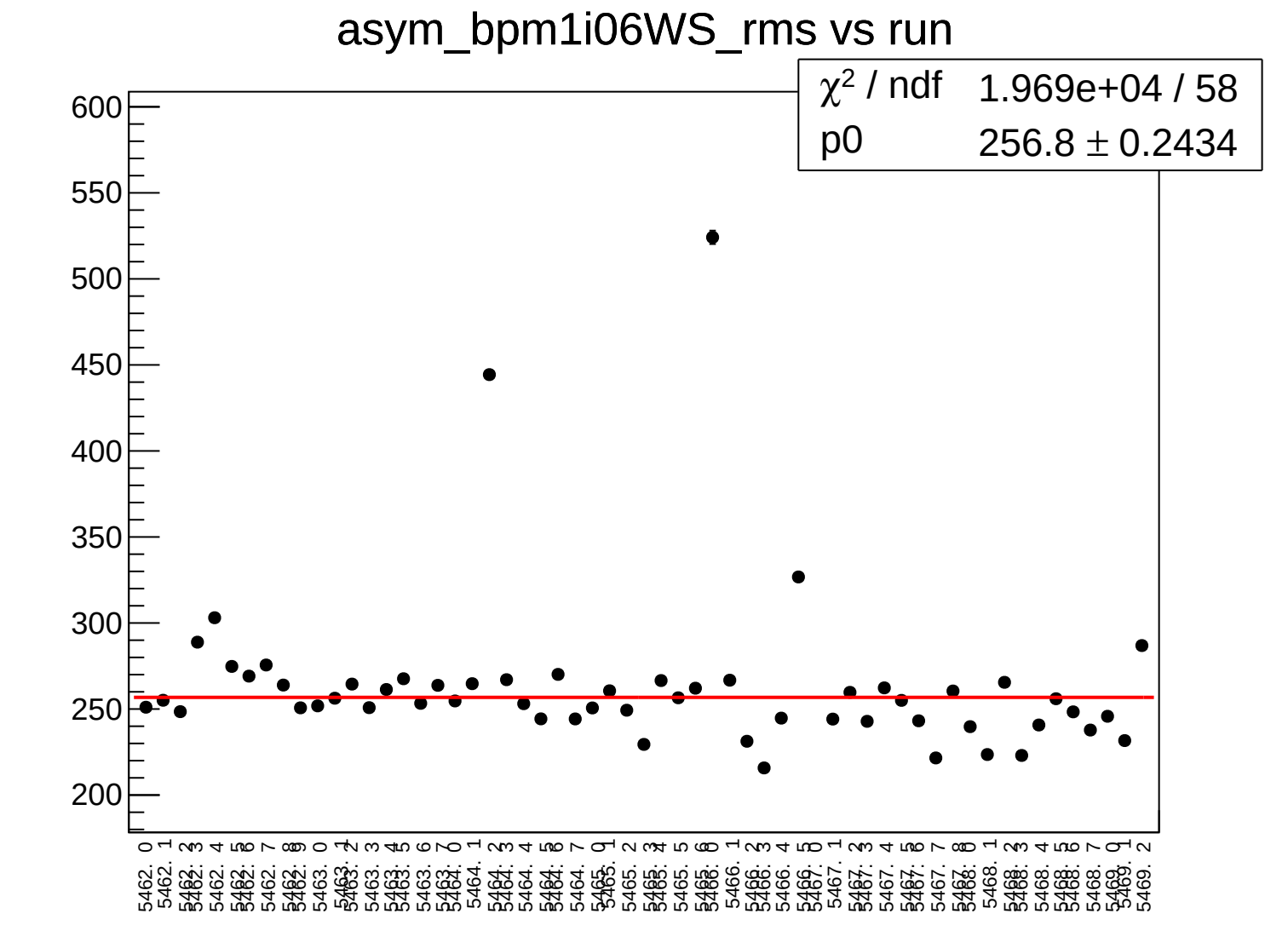

asym_bpm1i04WS_mean vs run
χ² / ndf 271.7 / 58
p0 −6198 ± 299.9
pull
Entries 59
Mean −329.2
Std Dev 357.5

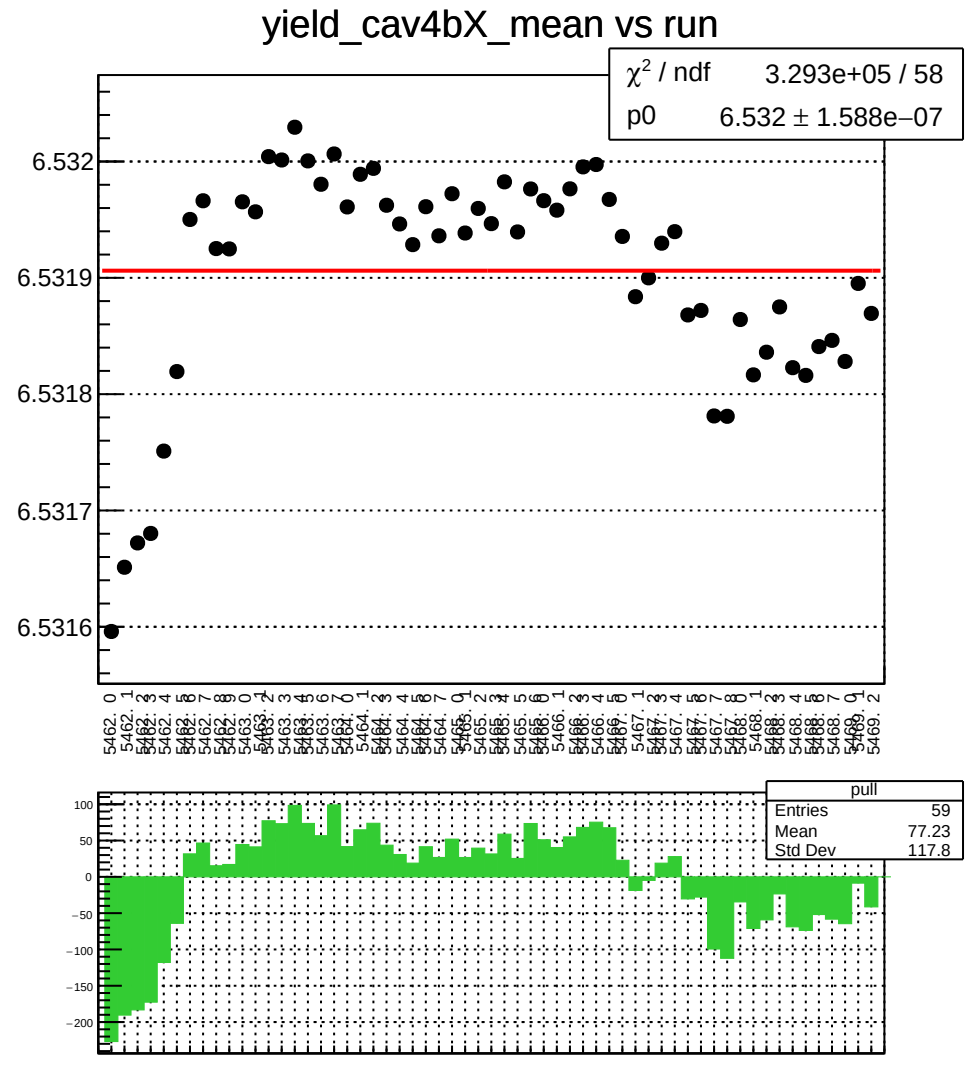

pull1D
Entries 59
Mean 0.07077
Std Dev 2.145

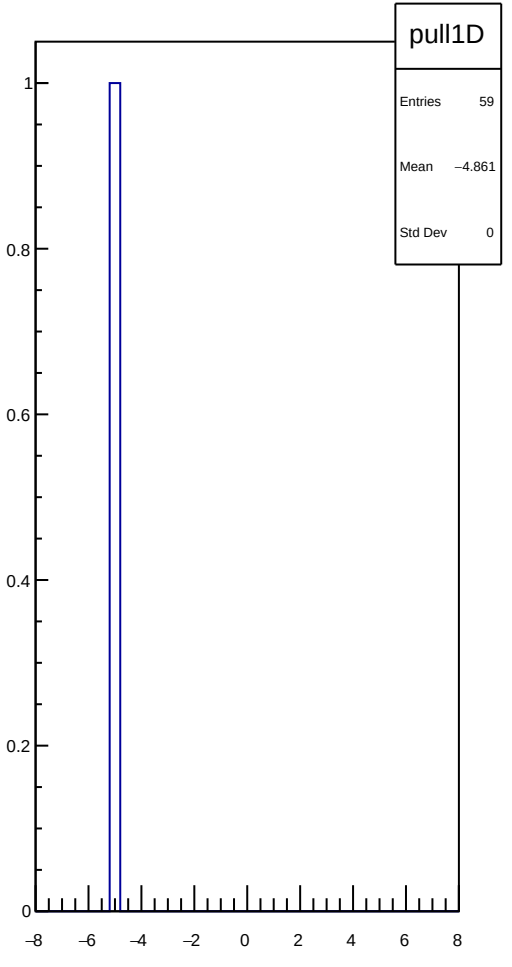

asym_bpm1i04WS_rms vs run
χ² / ndf 2.303e+04 / 58
p0 223.4 ± 0.212
550
500
450
400
350
300
250
200
150

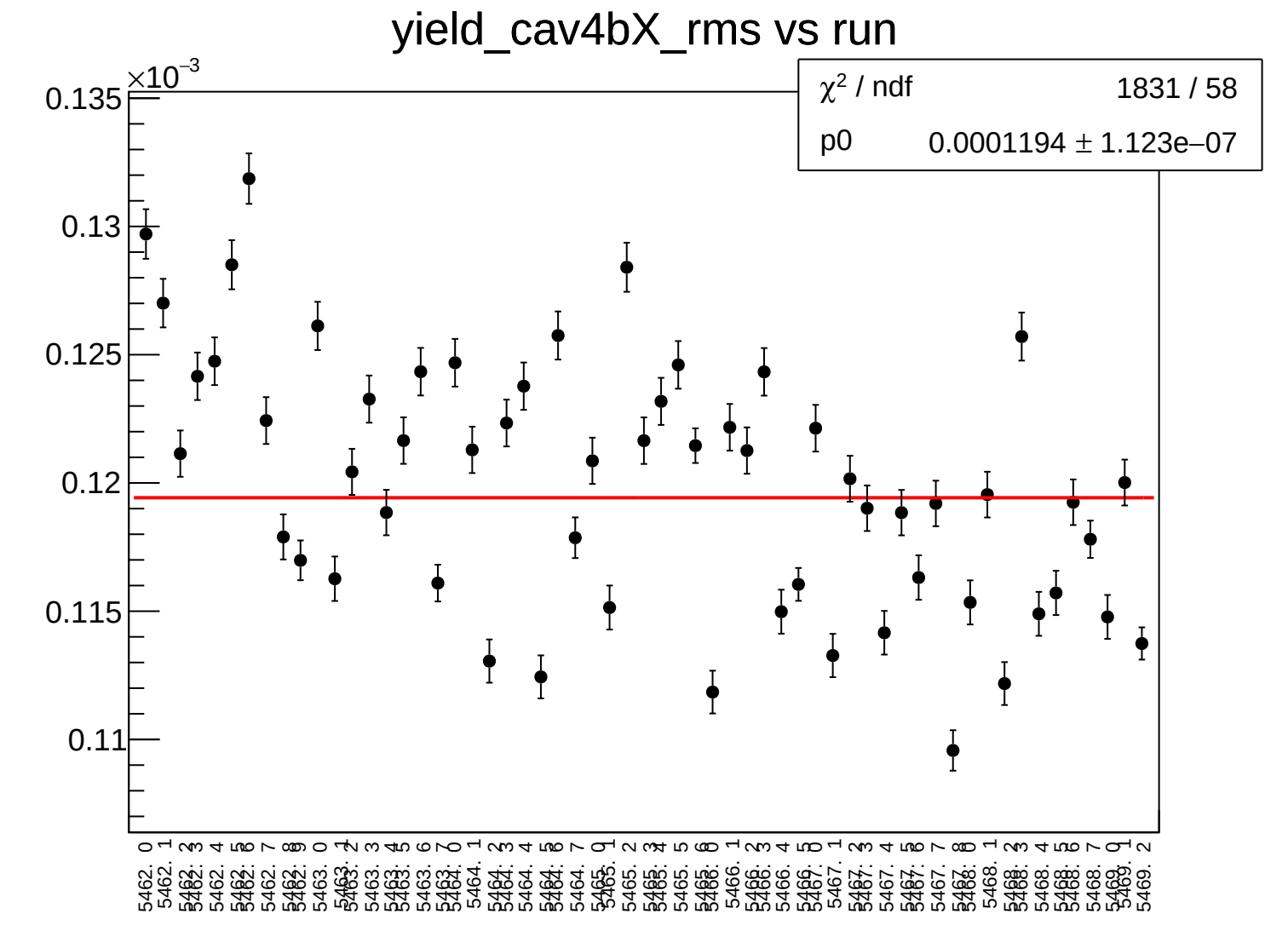

asym_bpm1i06WS_mean vs run
χ² / ndf 285.4 / 58
p0 −6483 ± 344.2
pull
Entries 59
Mean −323.1
Std Dev 351.8

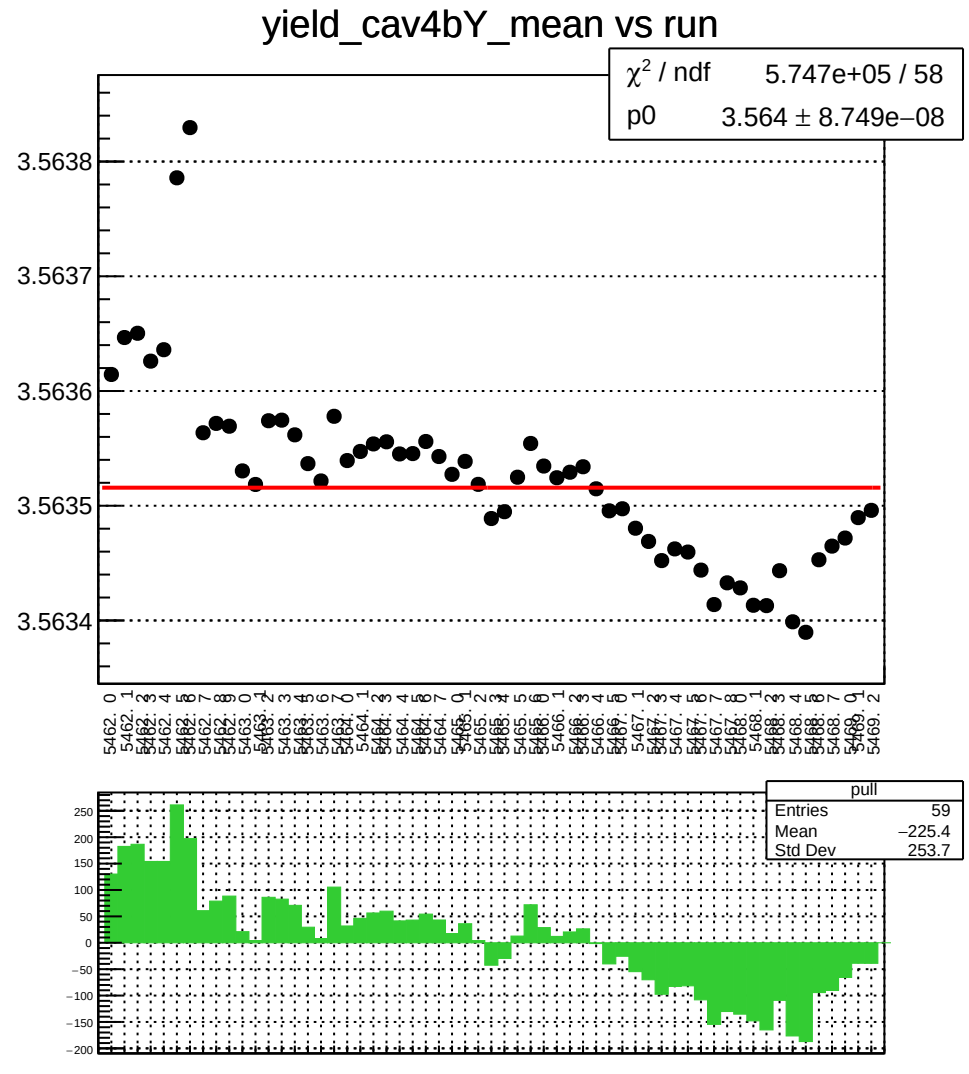

pull1D
Entries 59
Mean 0.0804
Std Dev 2.198

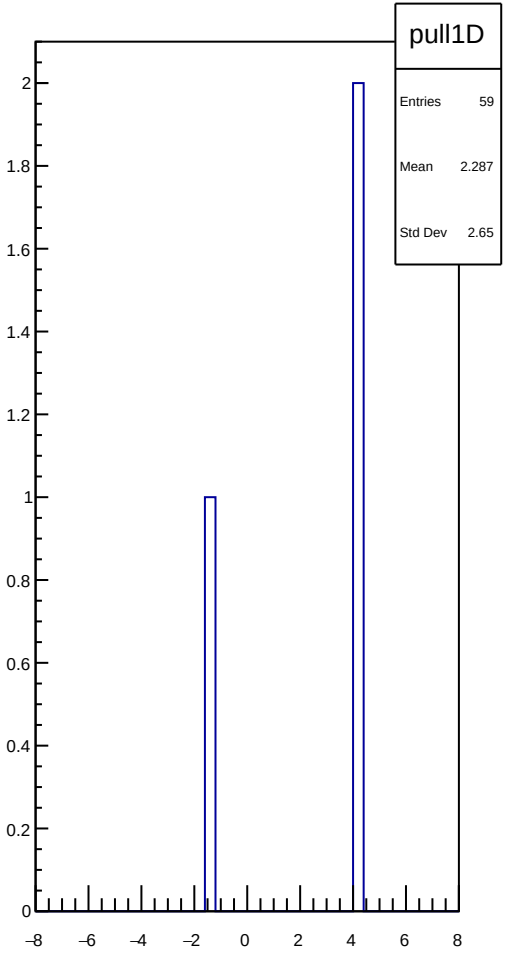

asym_bpm1i06WS_rms vs run
χ^2 / ndf 1.969e+04 / 58
p0 256.8 ± 0.2434
600
550
500
450
400
350
300
250
200

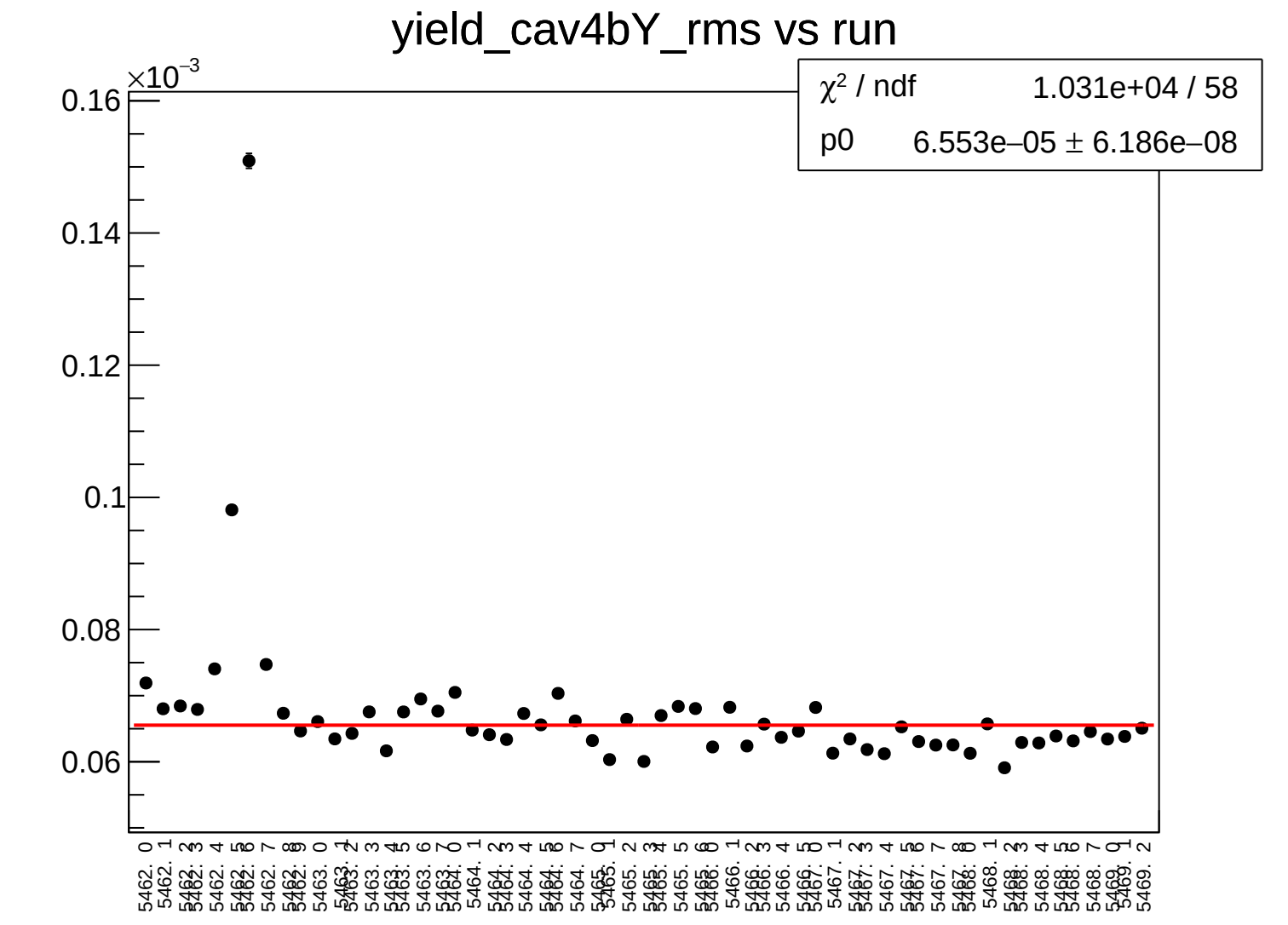

yield_cav4bX_mean vs run
χ² / ndf 3.293e+05 / 58
p0 6.532 ± 1.588e−07
6.532
6.5319
6.5318
6.5317
6.5316
pull
Entries 59
Mean 77.23
Std Dev 117.8
100
50
0
−50
−100
−150
−200

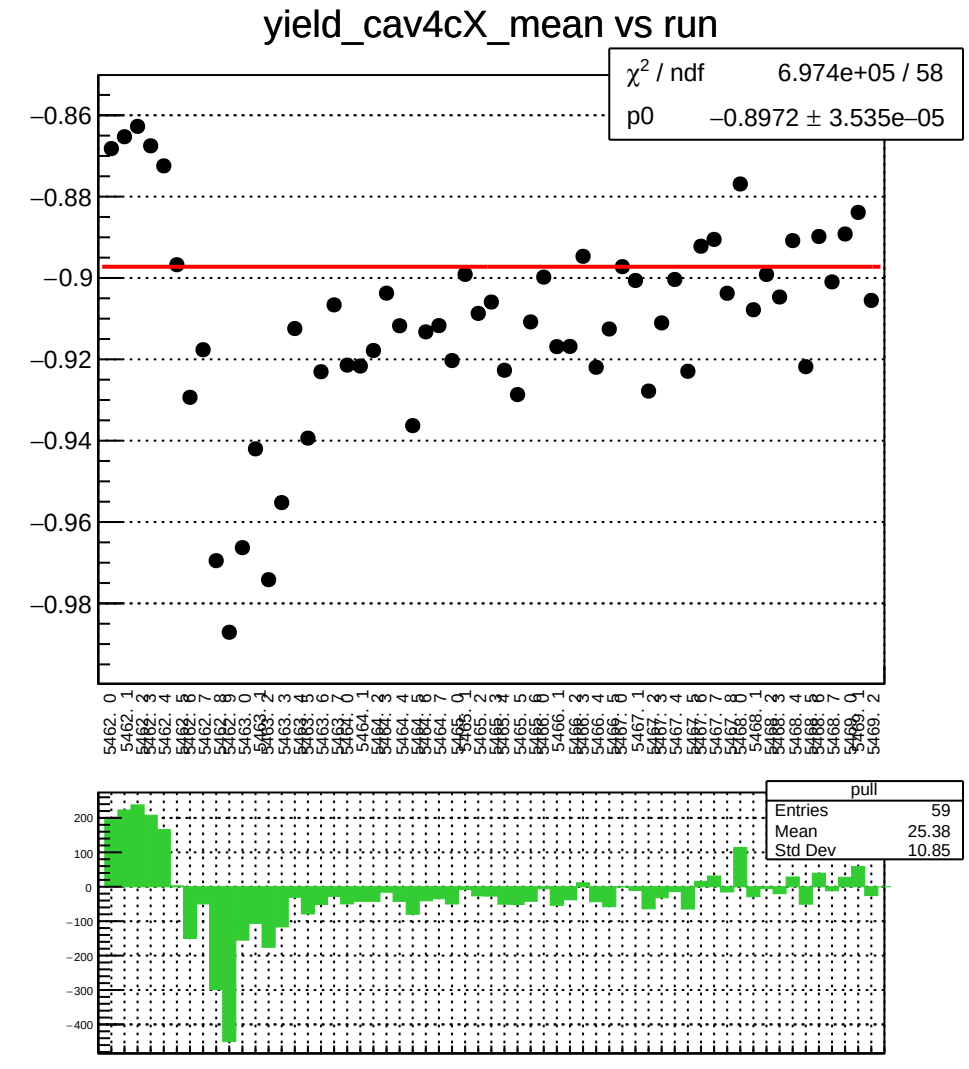

pull1D
Entries 59
Mean −4.861
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

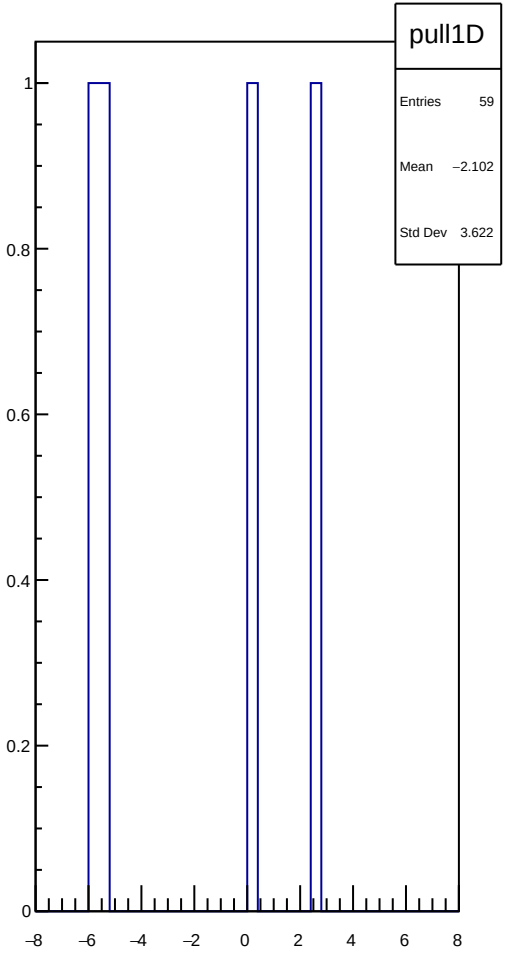

yield_cav4bX_rms vs run
×10⁻³
χ² / ndf 1831 / 58
p0 0.0001194 ± 1.123e−07
0.135
0.13
0.125
0.12
0.115
0.11

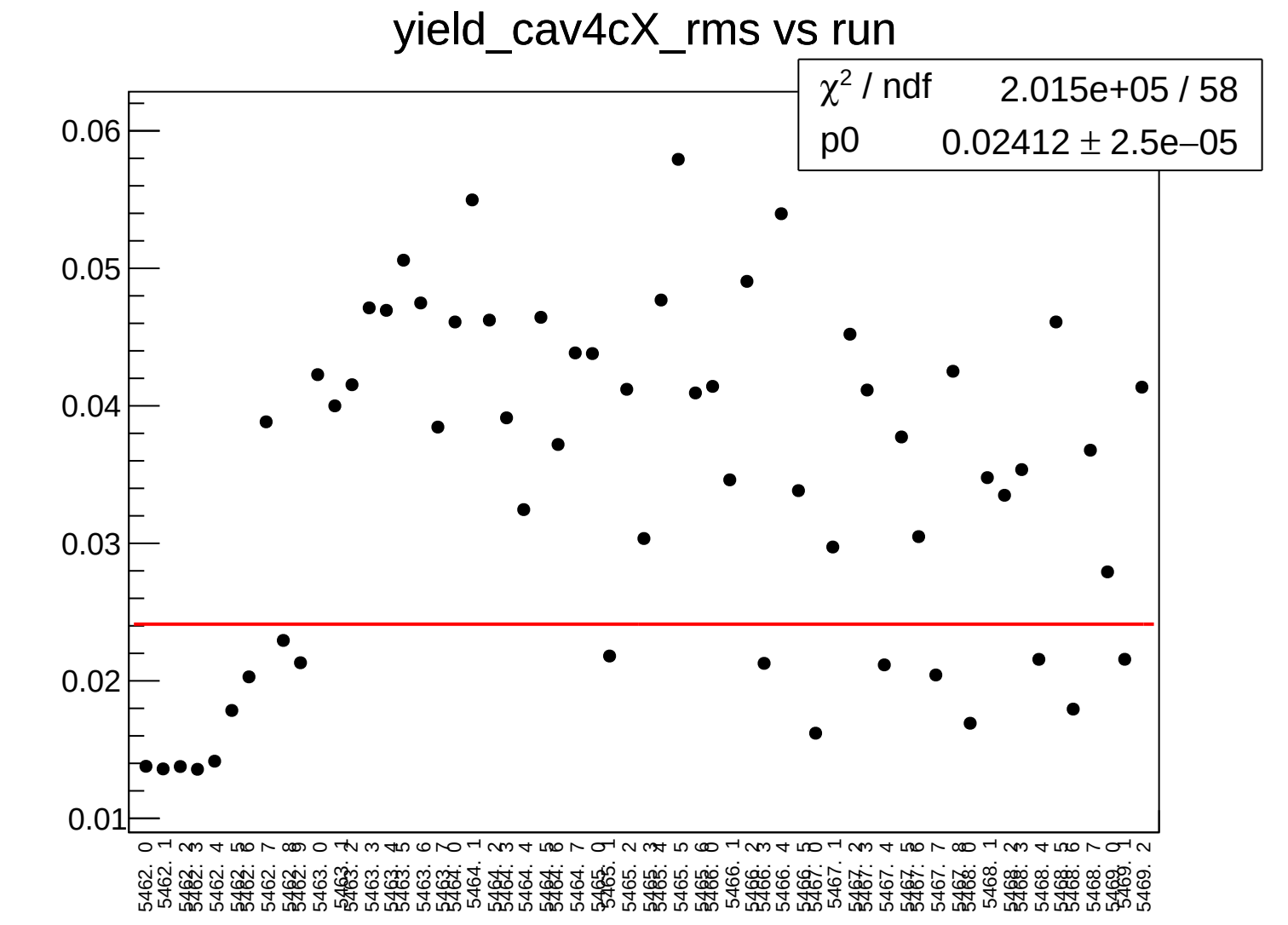

yield_cav4bY_mean vs run
χ² / ndf 5.747e+05 / 58
p0 3.564 ± 8.749e−08
3.5638
3.5637
3.5636
3.5635
3.5634
pull
Entries 59
Mean −225.4
Std Dev 253.7
250
200
150
100
50
0
−50
−100
−150
−200

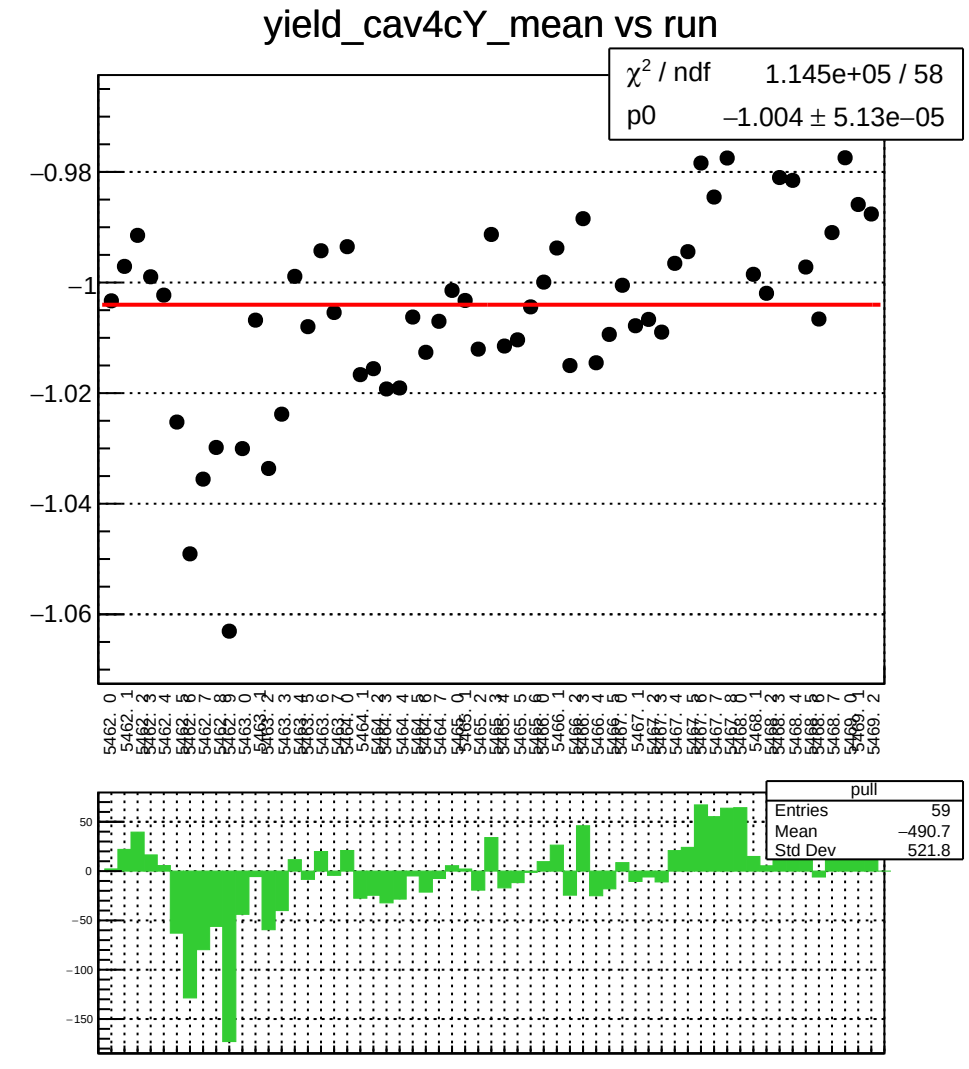

pull1D
Entries 59
Mean 2.287
Std Dev 2.65
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

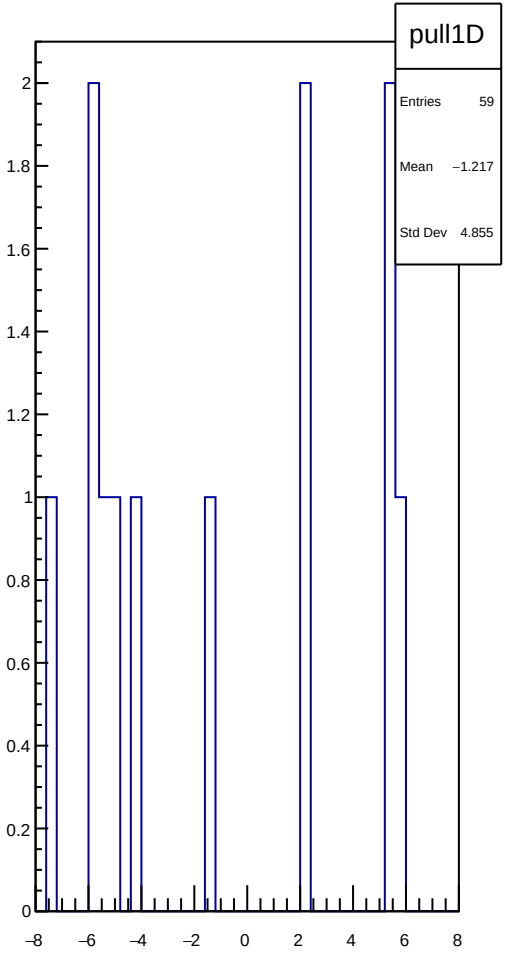

yield_cav4bY_rms vs run
×10⁻³
χ² / ndf 1.031e+04 / 58
p0 6.553e−05 ± 6.186e−08
0.16
0.14
0.12
0.1
0.08
0.06

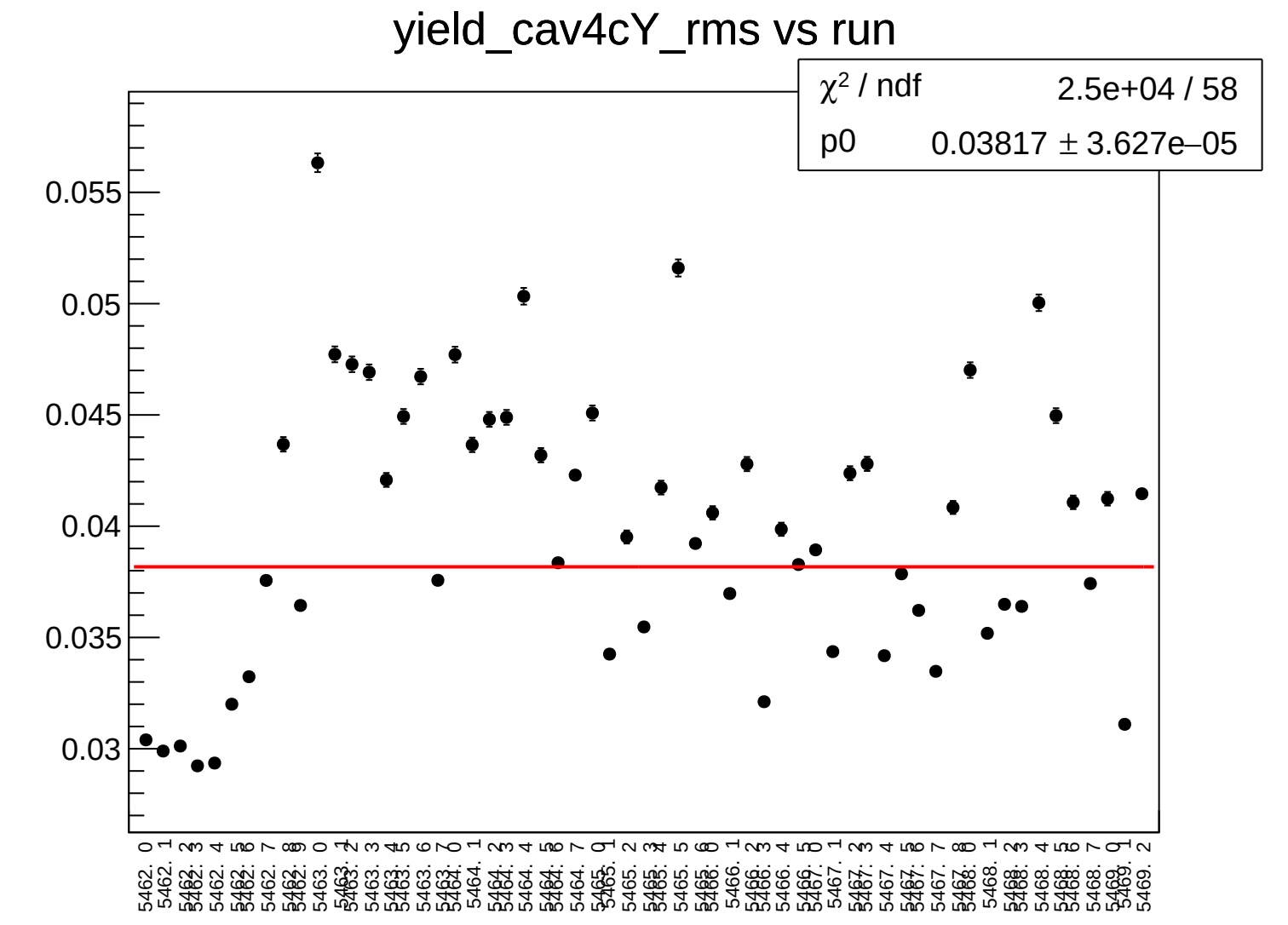

yield_cav4cX_mean vs run
χ² / ndf 6.974e+05 / 58
p0 −0.8972 ± 3.535e−05
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
−0.98
pull
Entries 59
Mean 25.38
Std Dev 10.85
200
100
0
−100
−200
−300
−400

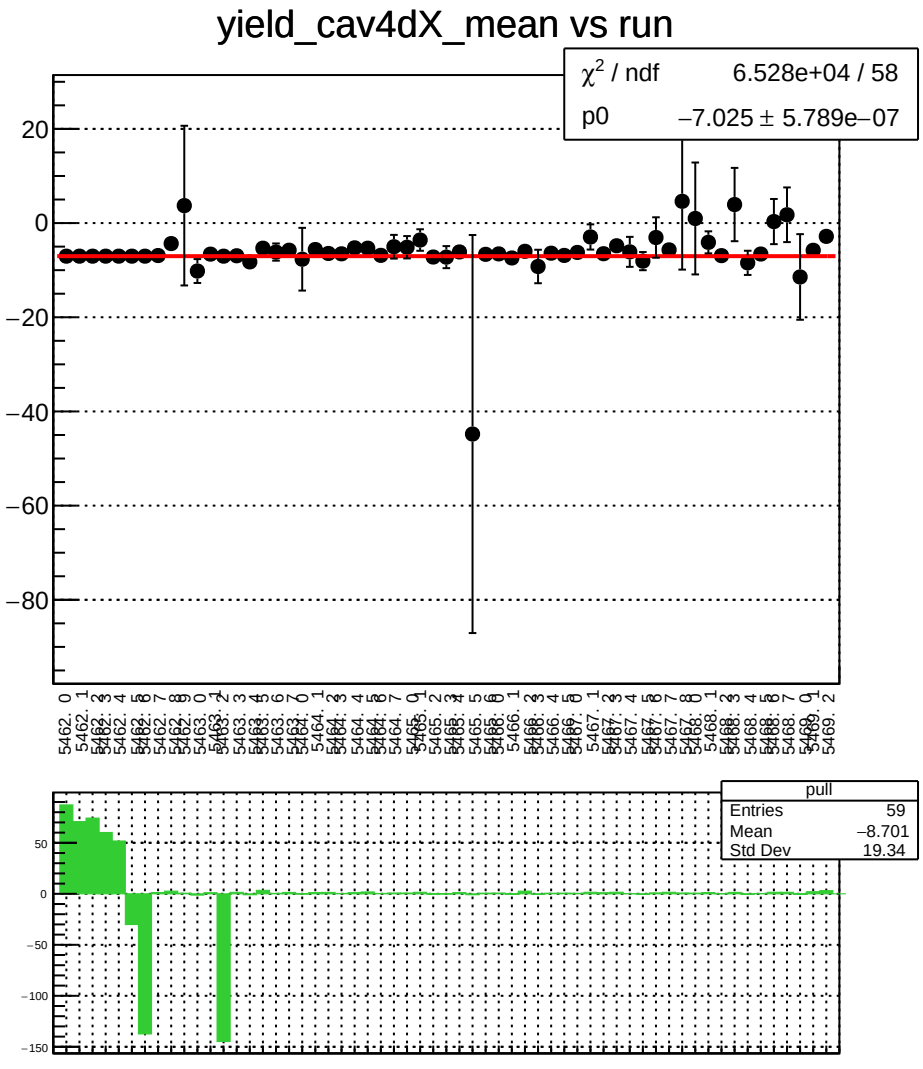

pull1D
Entries 59
Mean −2.102
Std Dev 3.622
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

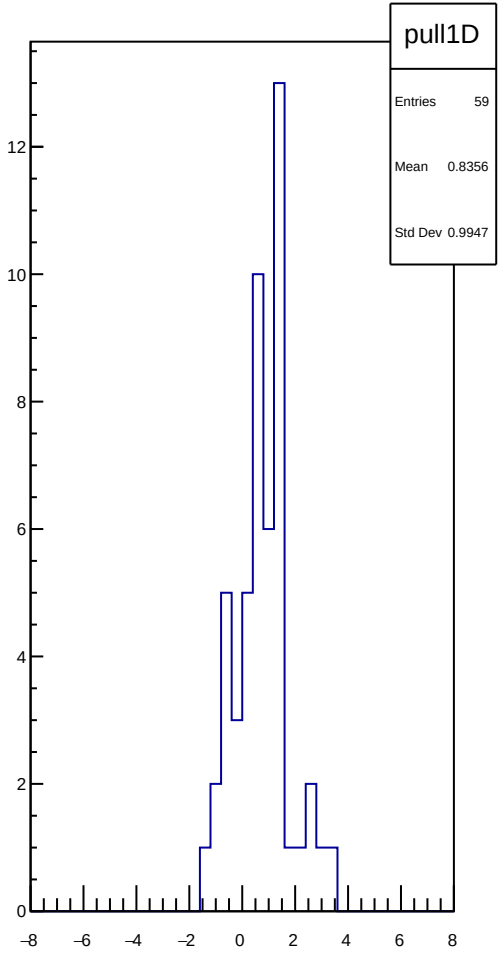

yield_cav4cX_rms vs run
χ² / ndf 2.015e+05 / 58
p0 0.02412 ± 2.5e−05
0.06
0.05
0.04
0.03
0.02
0.01

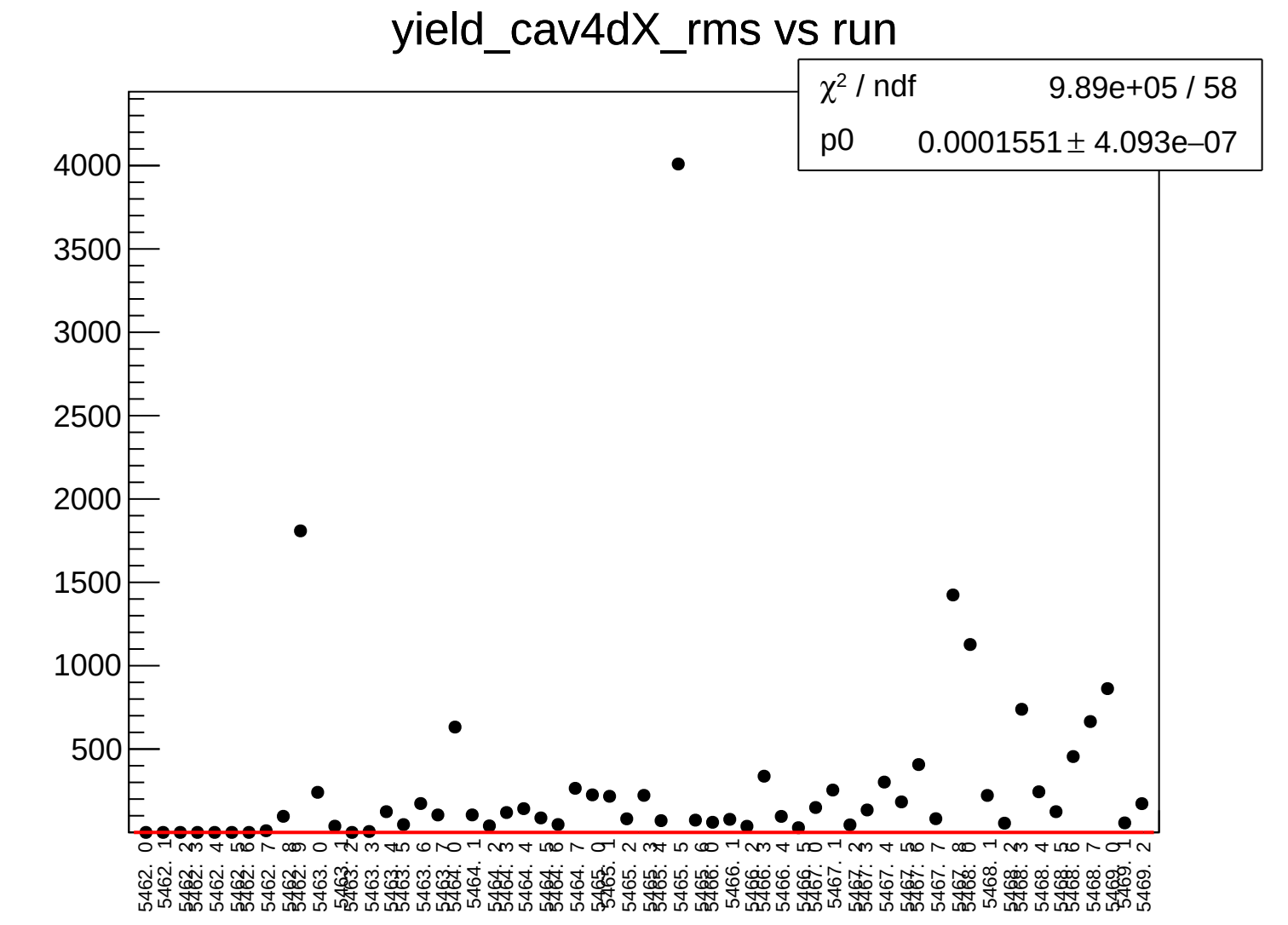

yield_cav4cY_mean vs run
χ² / ndf 1.145e+05 / 58
p0 −1.004 ± 5.13e−05
−0.98
−1
−1.02
−1.04
−1.06
pull
Entries 59
Mean −490.7
Std Dev 521.8
50
0
−50
−100
−150

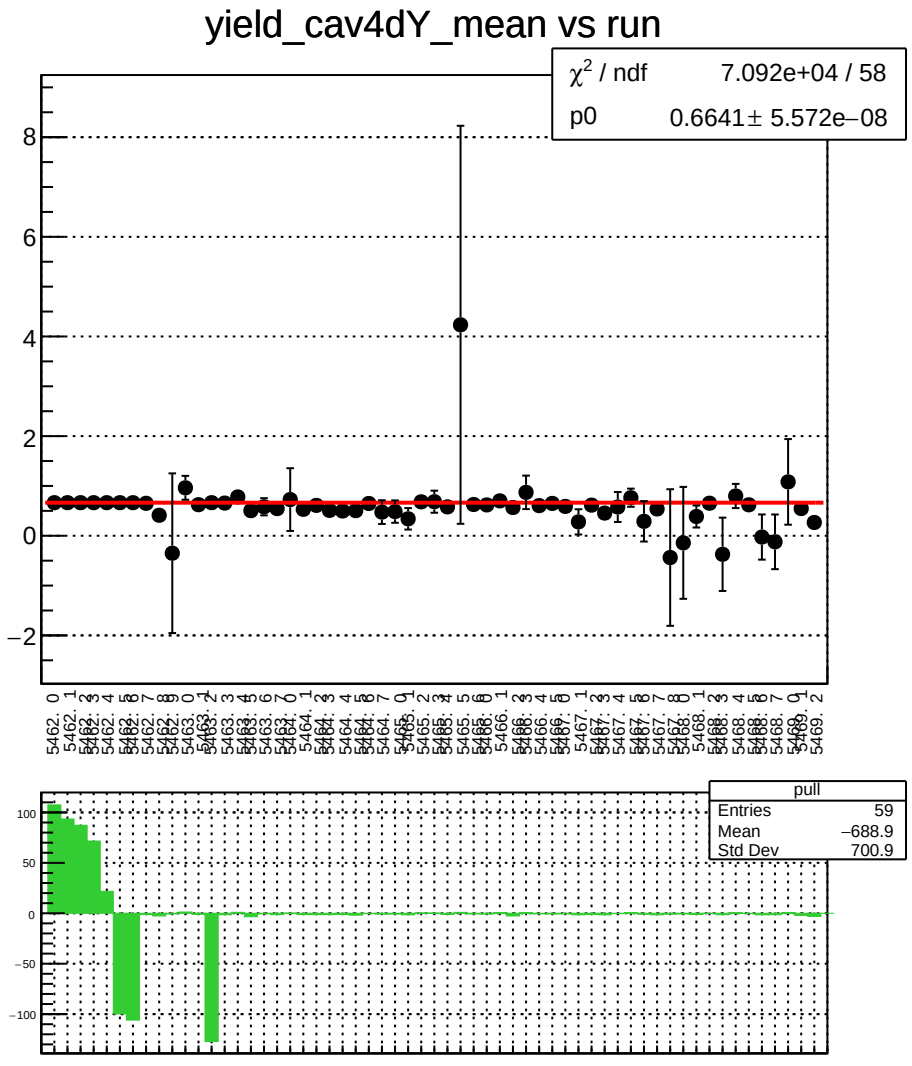

pull1D
Entries 59
Mean −1.217
Std Dev 4.855
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

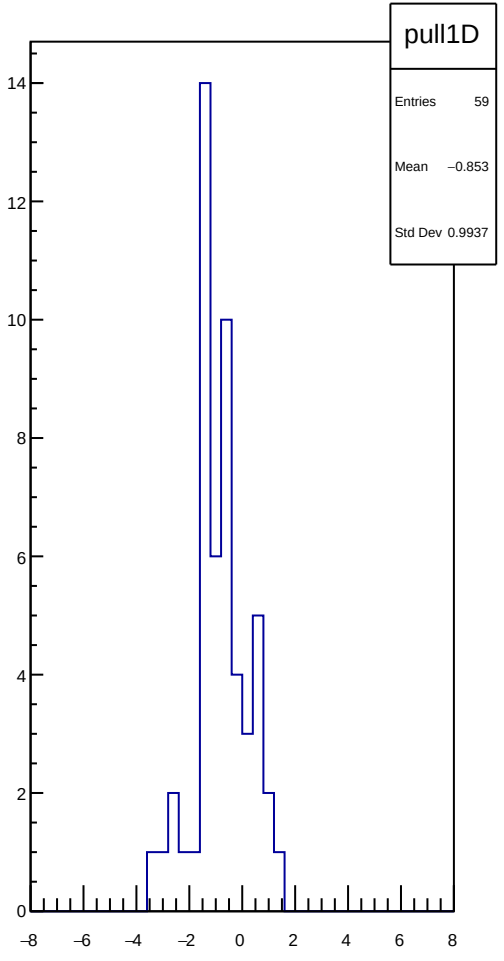

yield_cav4cY_rms vs run
χ² / ndf 2.5e+04 / 58
p0 0.03817 ± 3.627e–05
0.055
0.05
0.045
0.04
0.035
0.03
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

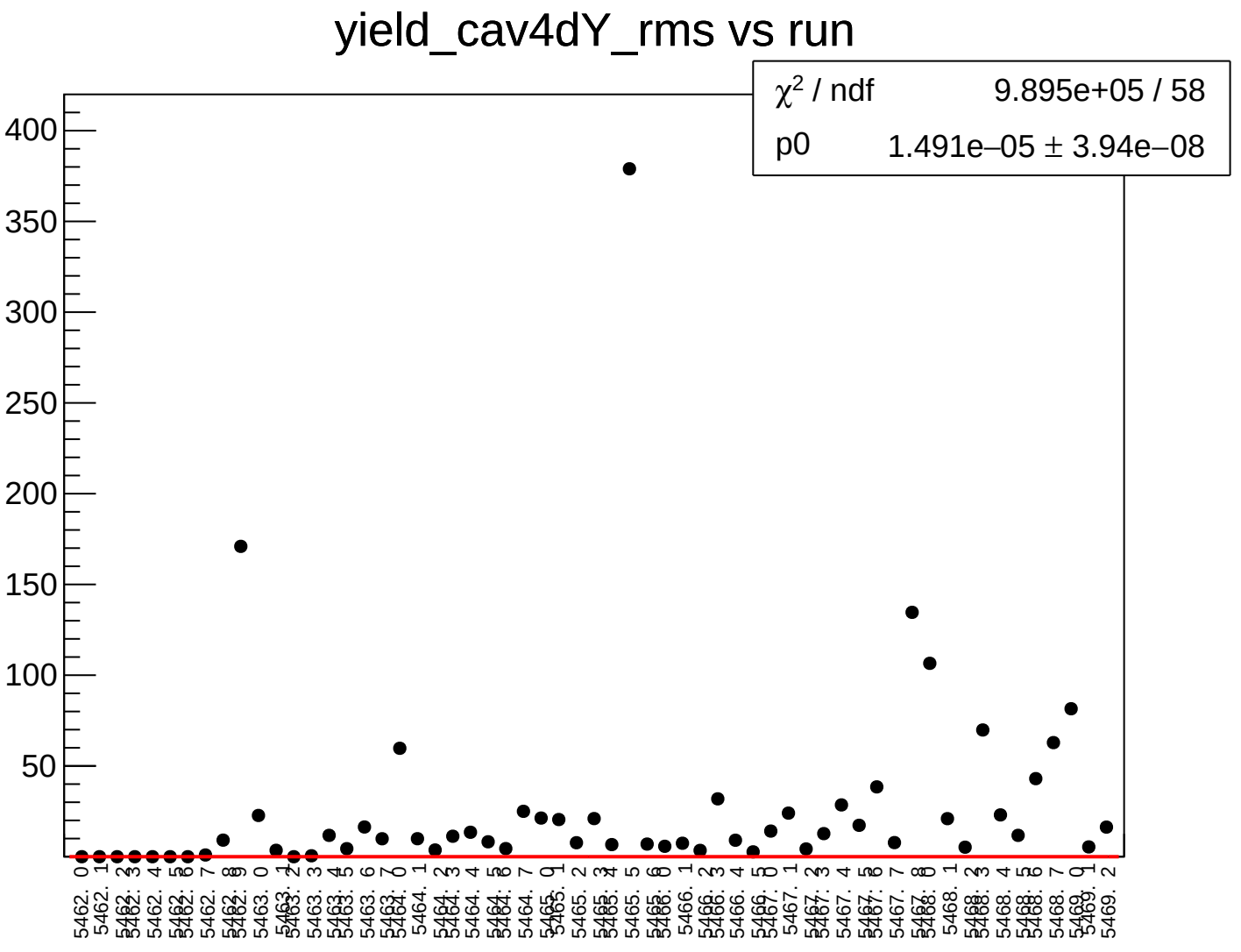

yield_cav4dX_mean vs run
χ² / ndf 6.528e+04 / 58
p0 −7.025 ± 5.789e−07
pull
Entries 59
Mean −8.701
Std Dev 19.34

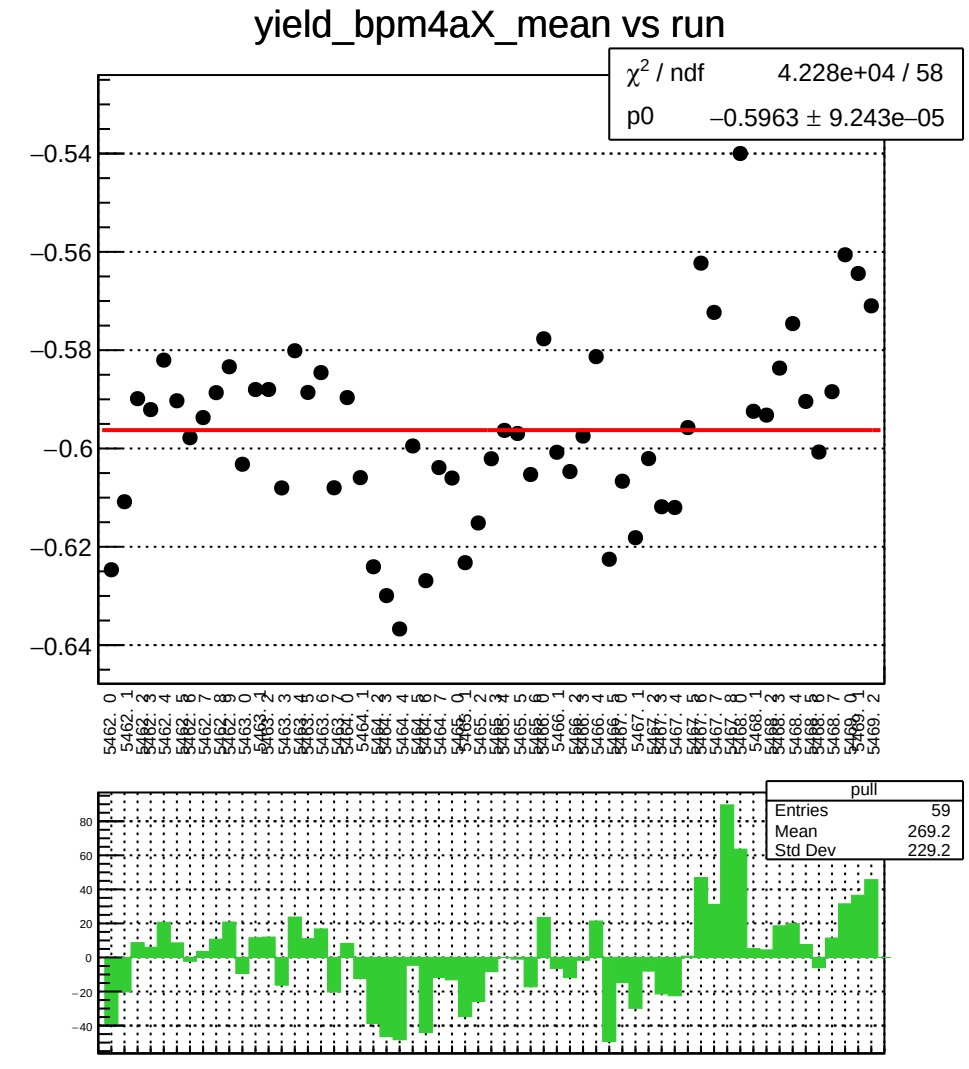

pull1D
Entries 59
Mean 0.8356
Std Dev 0.9947

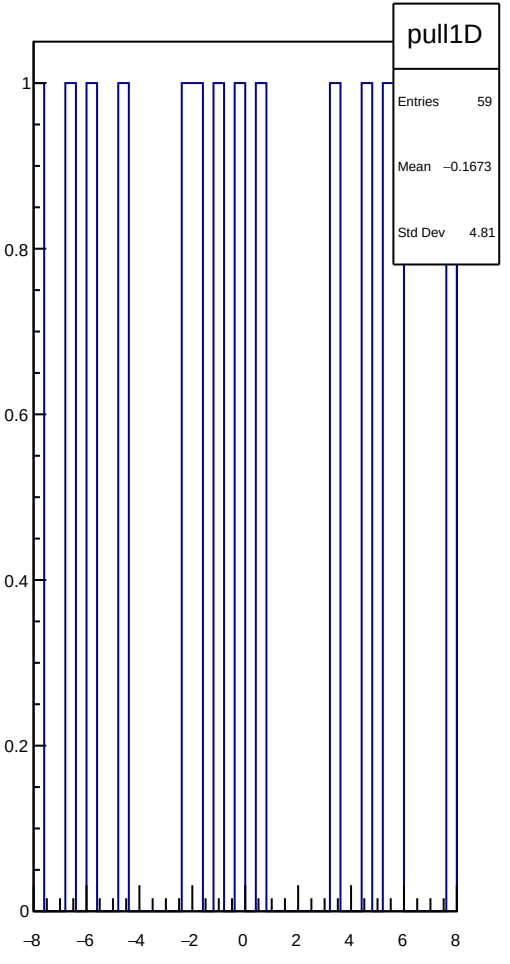

yield_cav4dX_rms vs run
χ² / ndf 9.89e+05 / 58
p0 0.0001551 ± 4.093e−07
4000
3500
3000
2500
2000
1500
1000
500

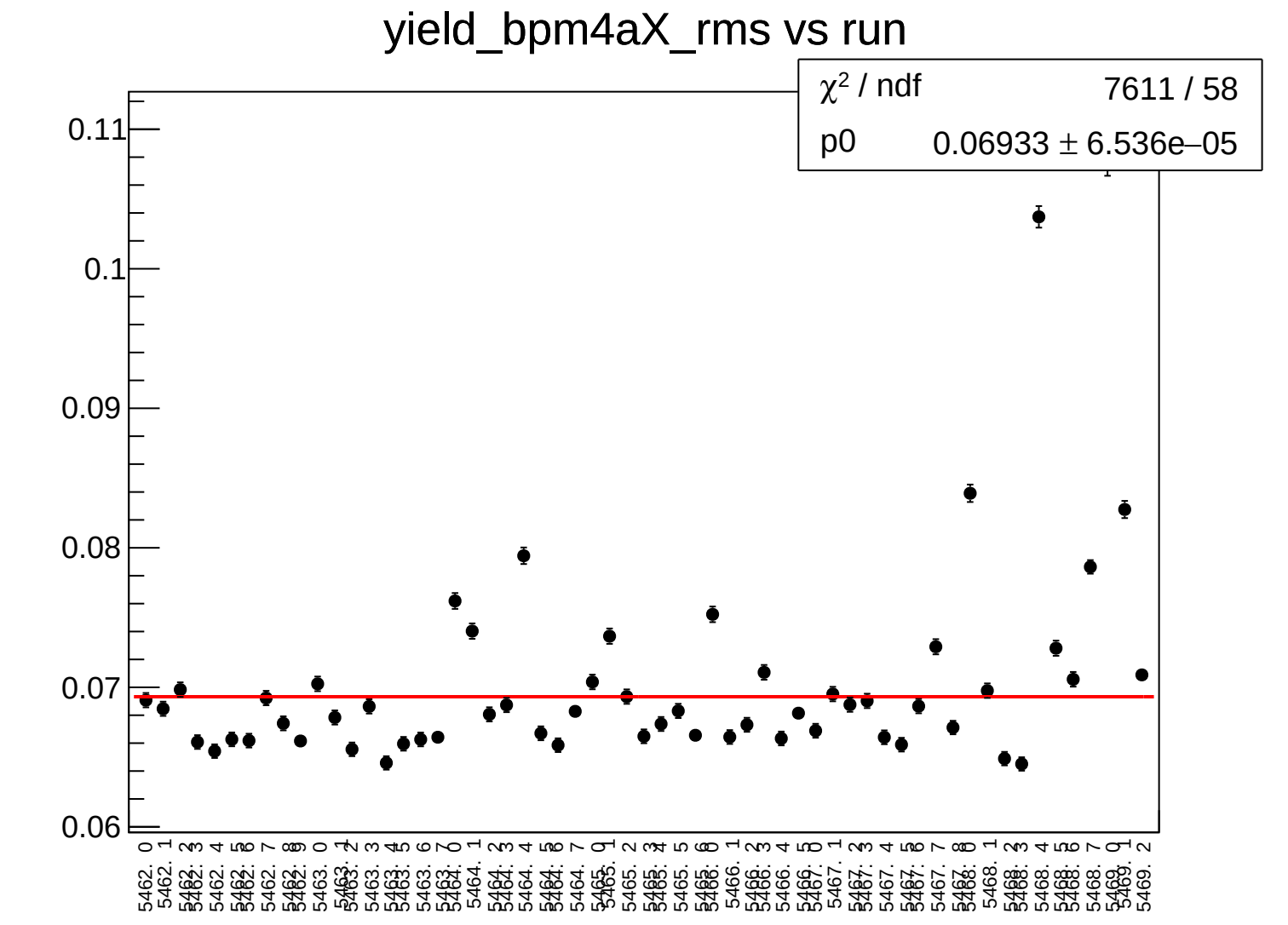

yield_cav4dY_mean vs run
χ² / ndf 7.092e+04 / 58
p0 0.6641 ± 5.572e−08
pull
Entries 59
Mean −688.9
Std Dev 700.9

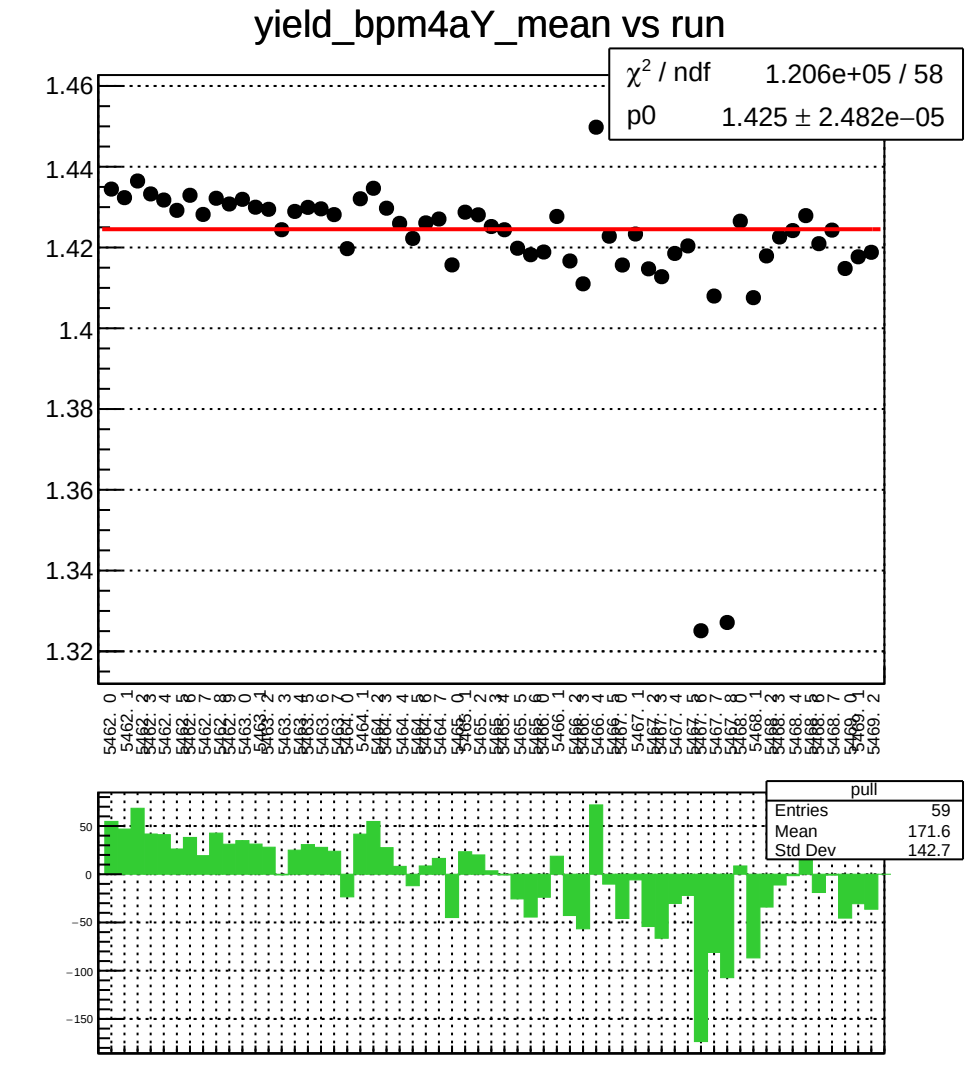

pull1D
Entries 59
Mean −0.853
Std Dev 0.9937

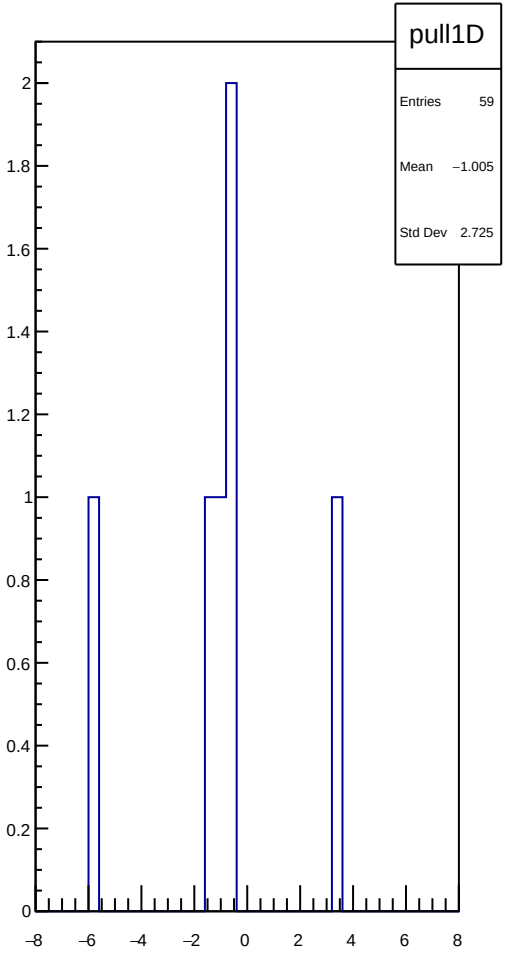

yield_cav4dY_rms vs run
χ^2 / ndf 9.895e+05 / 58
p0 1.491e−05 ± 3.94e−08
400
350
300
250
200
150
100
50

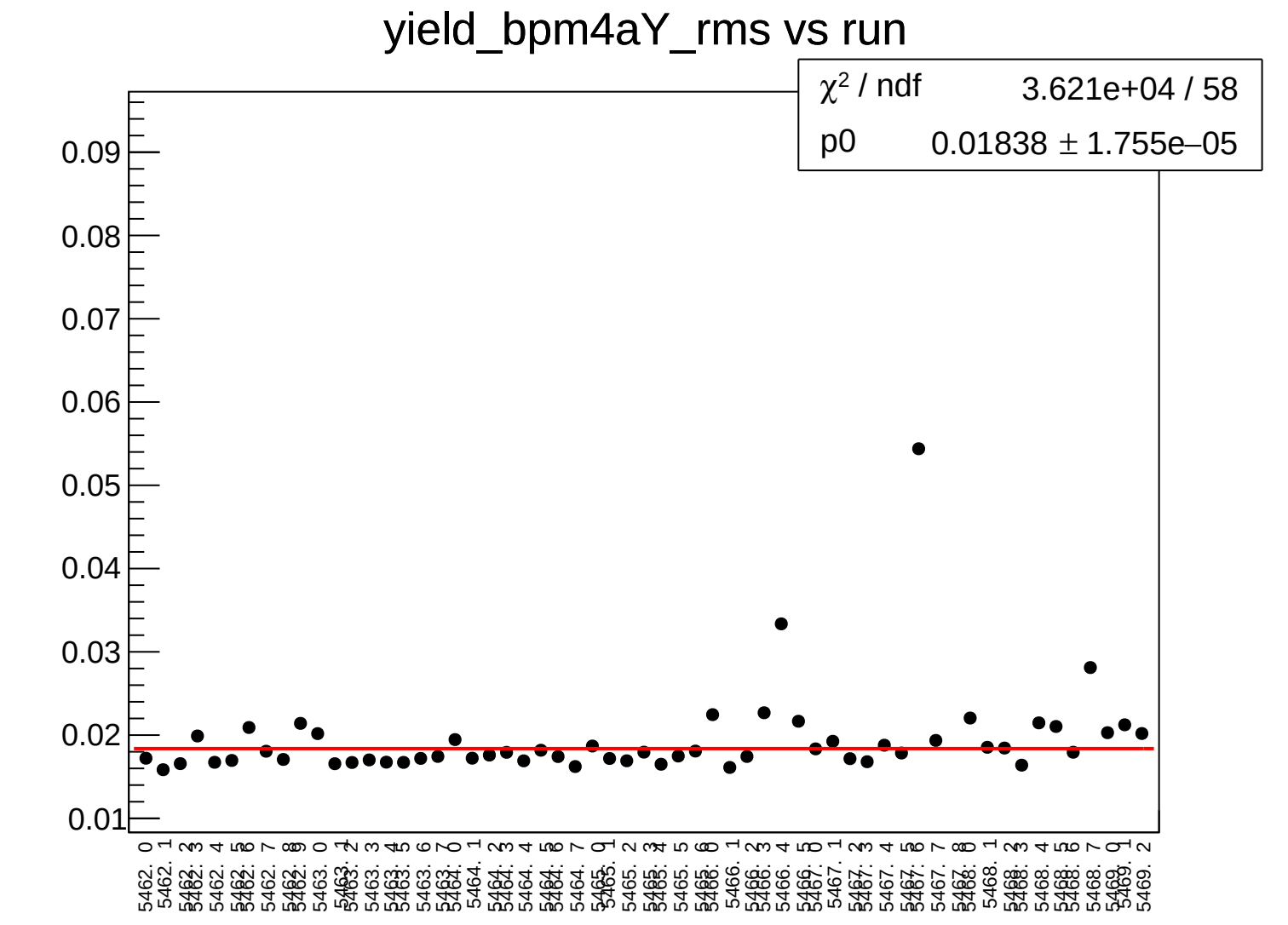

yield_bpm4aX_mean vs run
χ² / ndf 4.228e+04 / 58
p0 −0.5963 ± 9.243e−05
−0.54
−0.56
−0.58
−0.6
−0.62
−0.64
pull
Entries 59
Mean 269.2
Std Dev 229.2
80
60
40
20
0
−20
−40

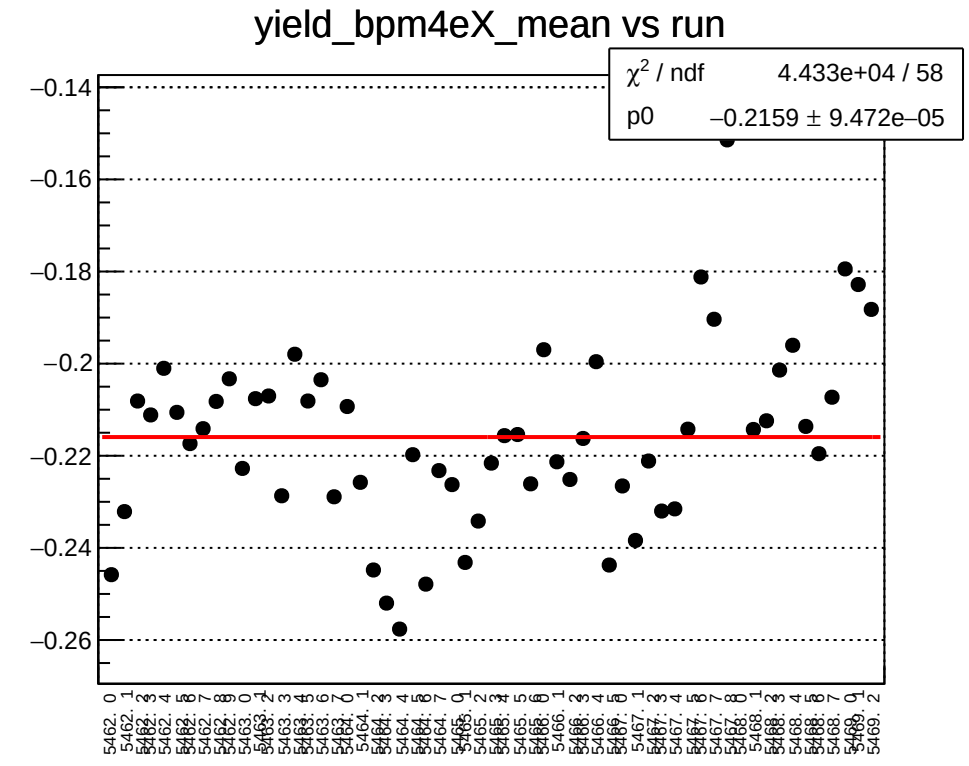

pull1D
Entries 59
Mean −0.1673
Std Dev 4.81
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

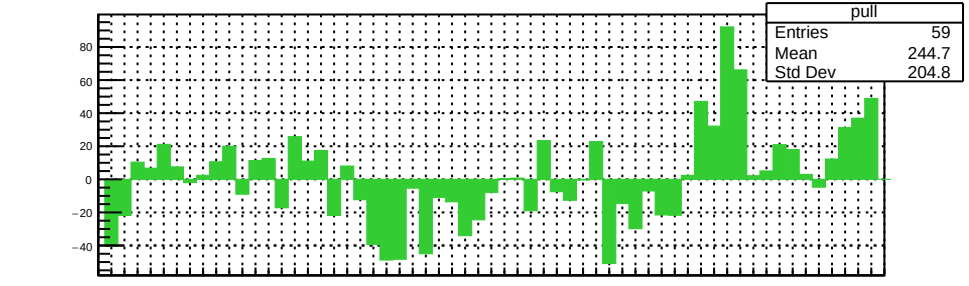

yield_bpm4aX_rms vs run
χ² / ndf 7611 / 58
p0 0.06933 ± 6.536e−05
0.11
0.1
0.09
0.08
0.07
0.06

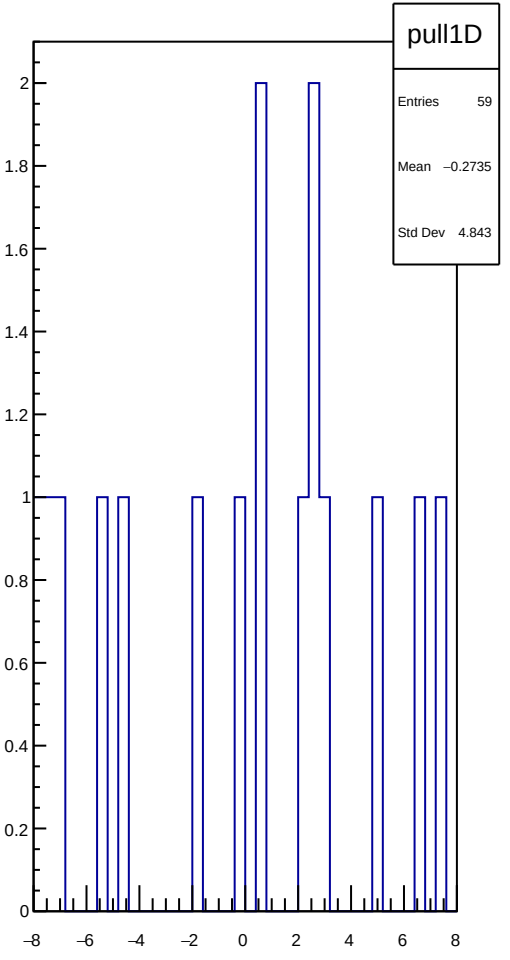

yield_bpm4aY_mean vs run
χ² / ndf 1.206e+05 / 58
p0 1.425 ± 2.482e−05
pull
Entries 59
Mean 171.6
Std Dev 142.7

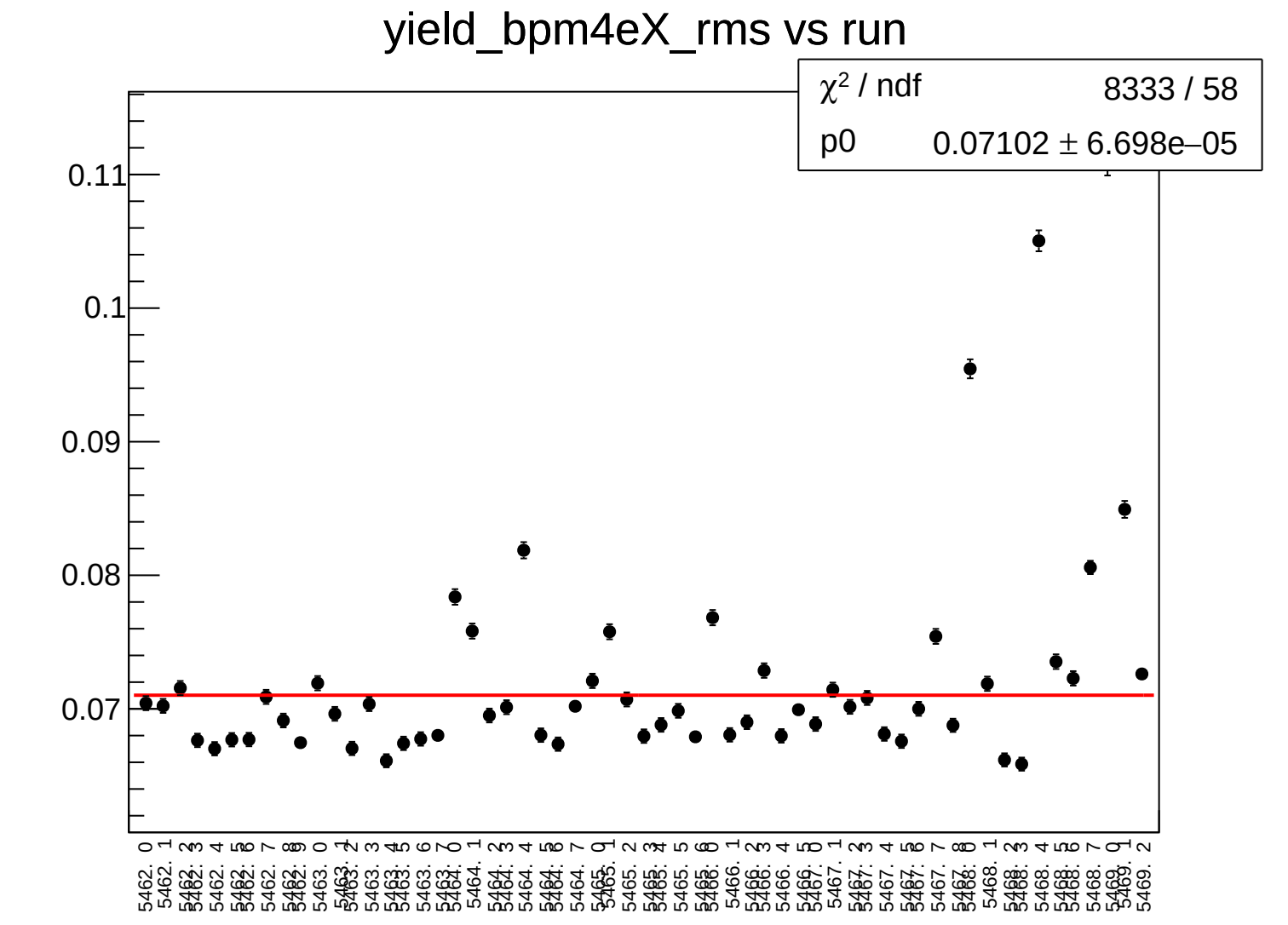

pull1D
Entries 59
Mean −1.005
Std Dev 2.725

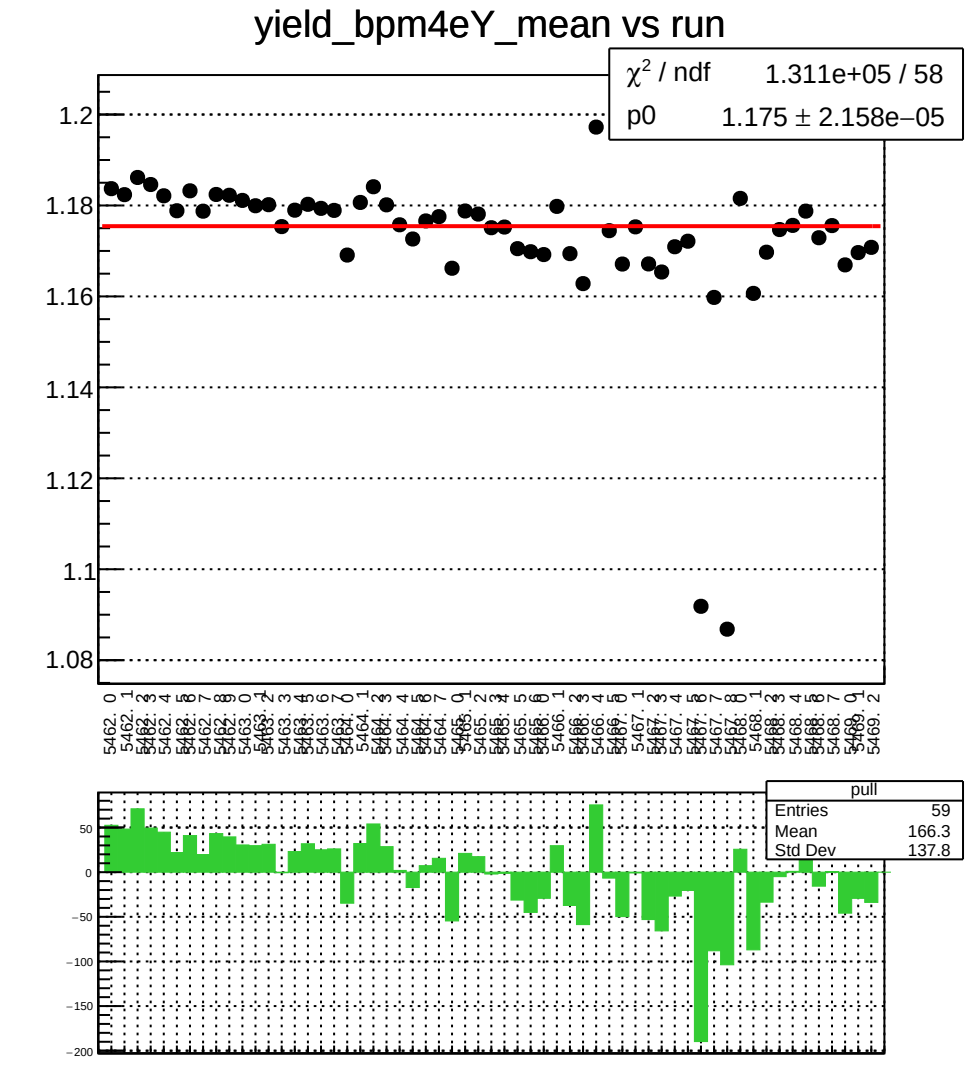

yield_bpm4aY_rms vs run
χ² / ndf 3.621e+04 / 58
p0 0.01838 ± 1.755e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

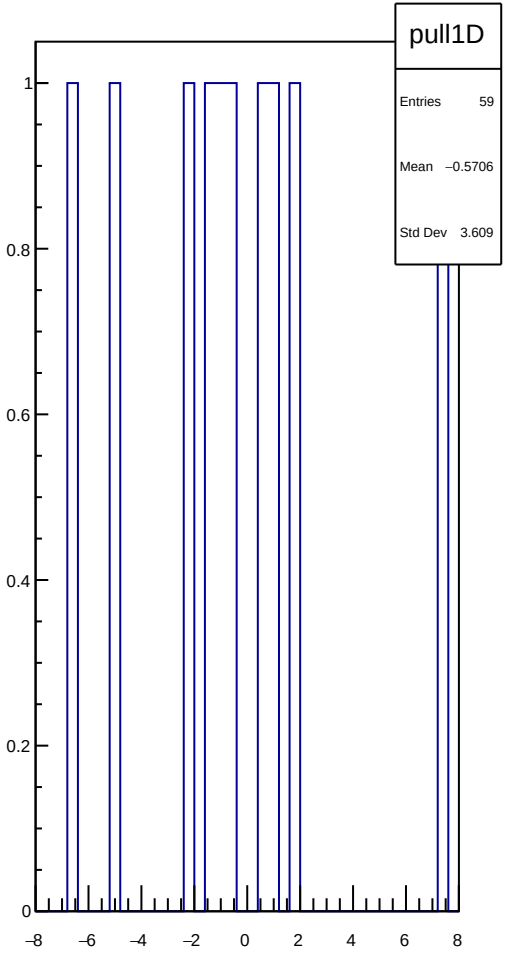

yield_bpm4eX_mean vs run
χ² / ndf 4.433e+04 / 58
p0 −0.2159 ± 9.472e−05
−0.14
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26

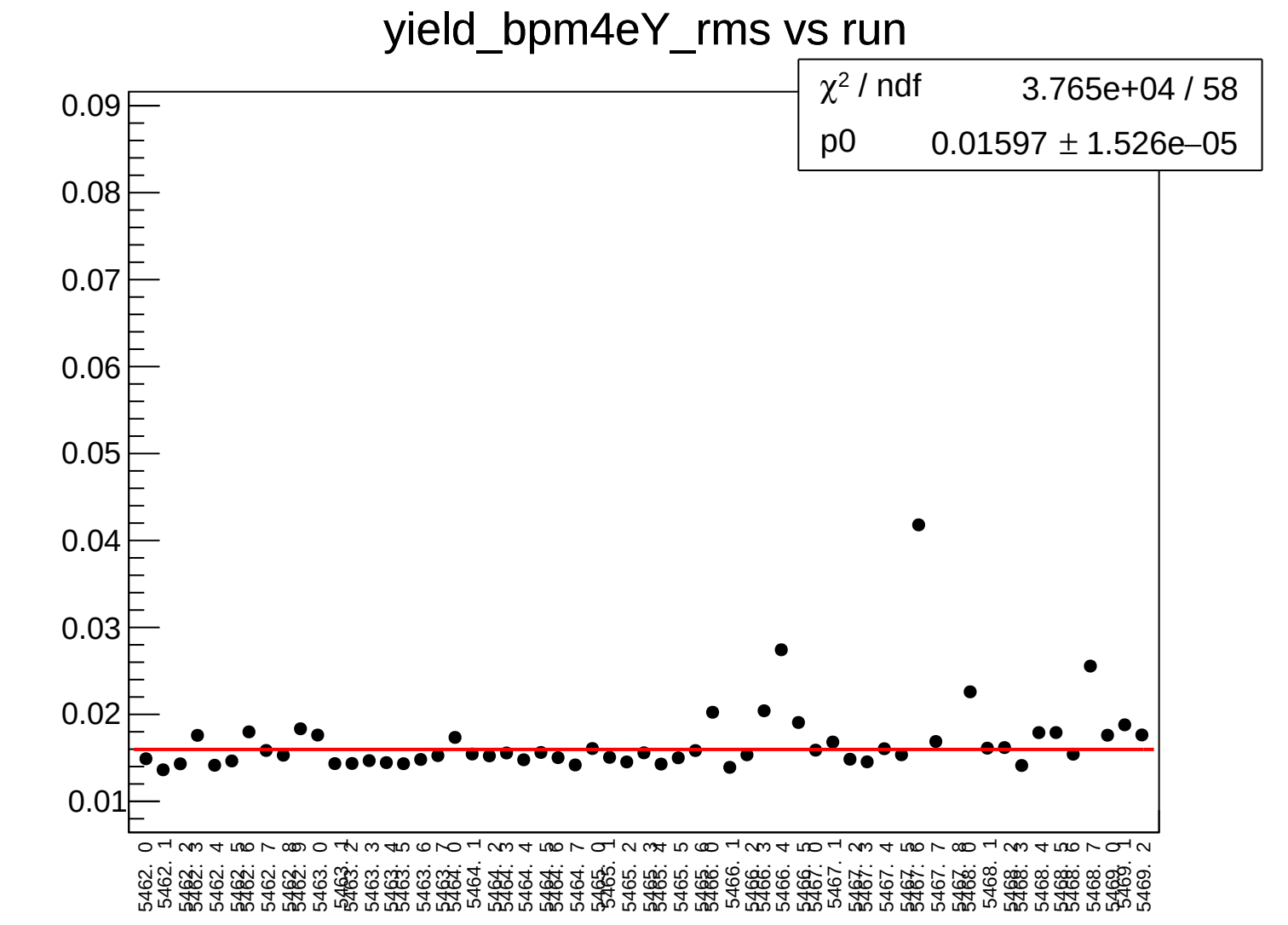

pull
Entries 59
Mean 244.7
Std Dev 204.8
80
60
40
20
0
−20
−40

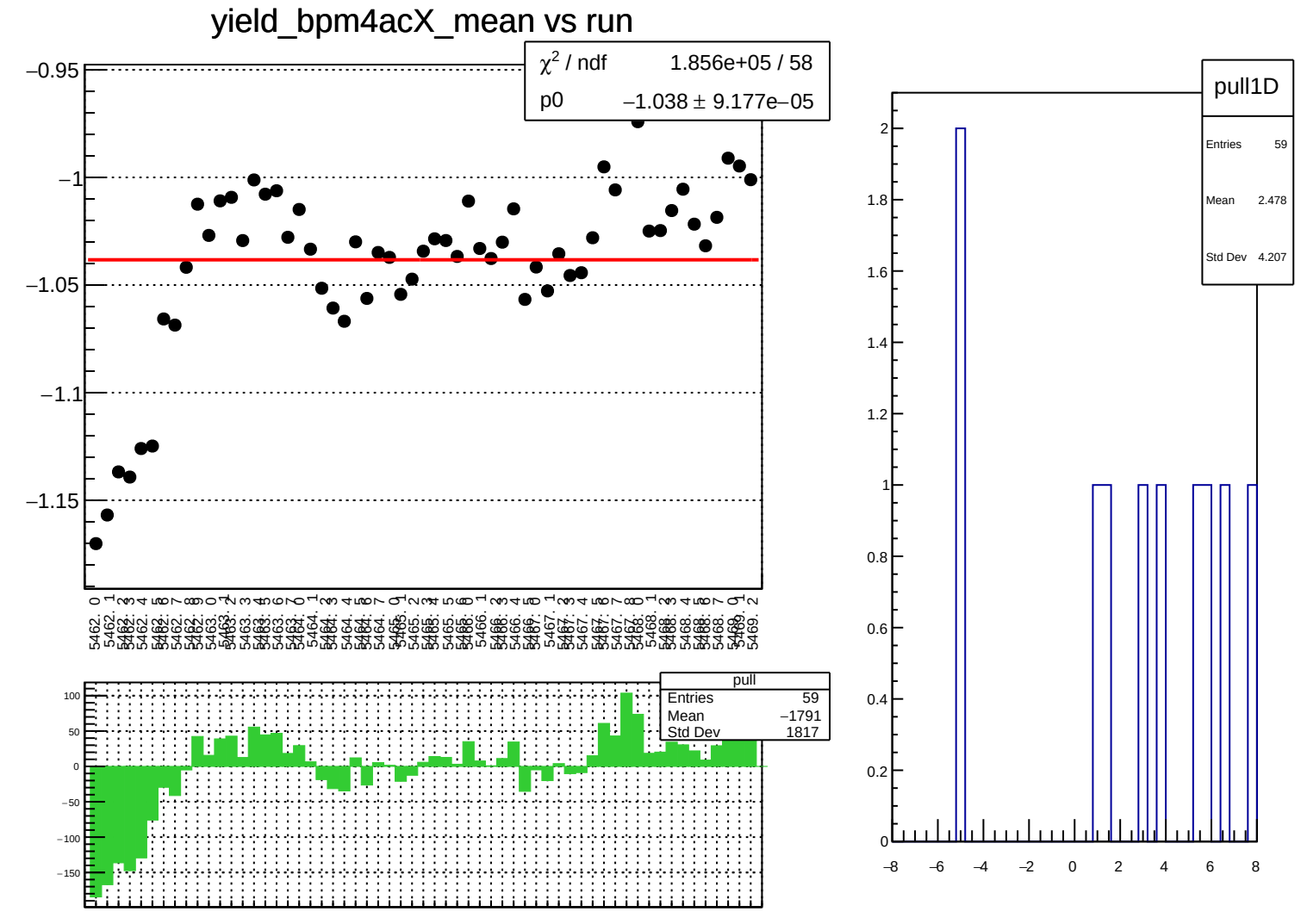

pull1D
Entries 59
Mean −0.2735
Std Dev 4.843
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

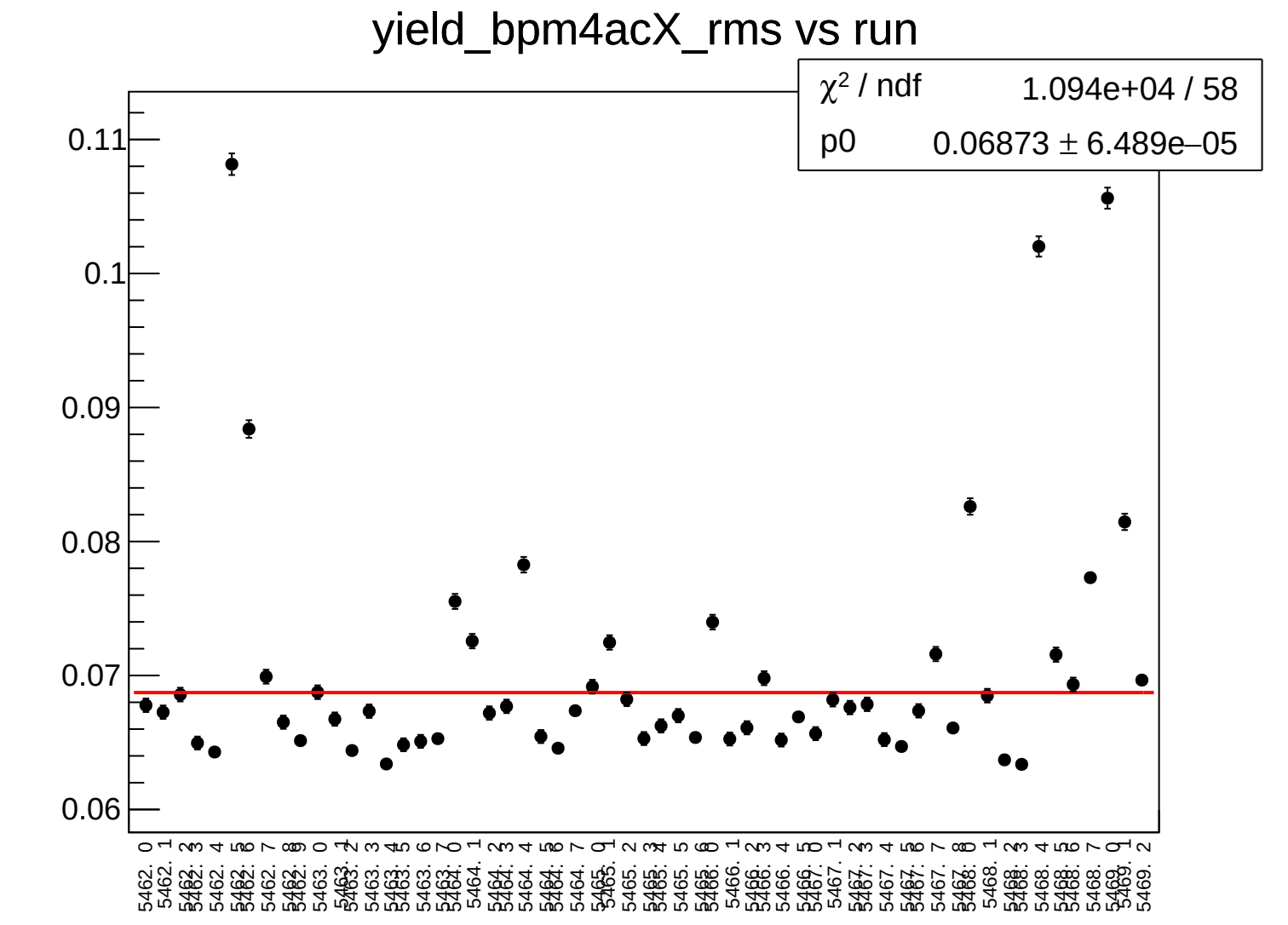

yield_bpm4eX_rms vs run
χ² / ndf 8333 / 58
p0 0.07102 ± 6.698e−05
0.11
0.1
0.09
0.08
0.07

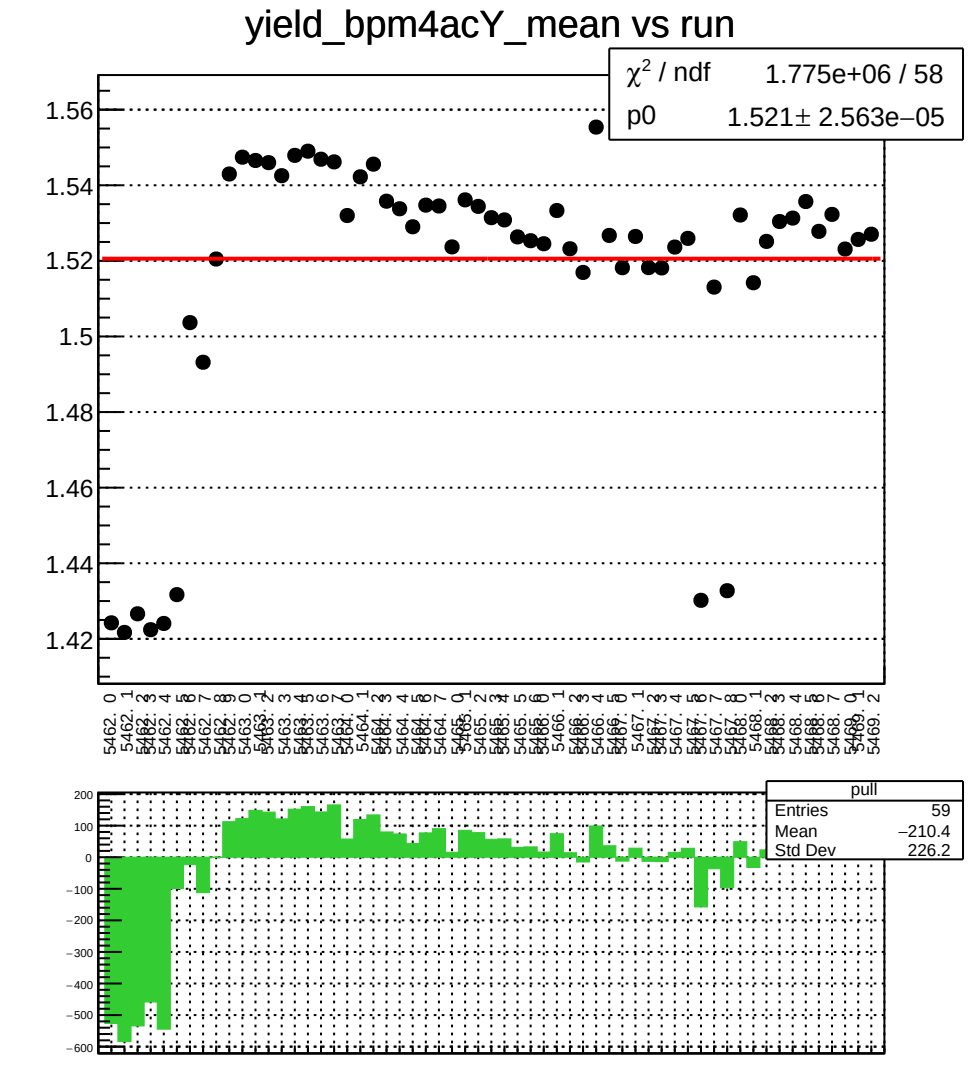

yield_bpm4eY_mean vs run
χ² / ndf 1.311e+05 / 58
p0 1.175 ± 2.158e−05
1.2
1.18
1.16
1.14
1.12
1.1
1.08
pull
Entries 59
Mean 166.3
Std Dev 137.8
50
0
−50
−100
−150
−200

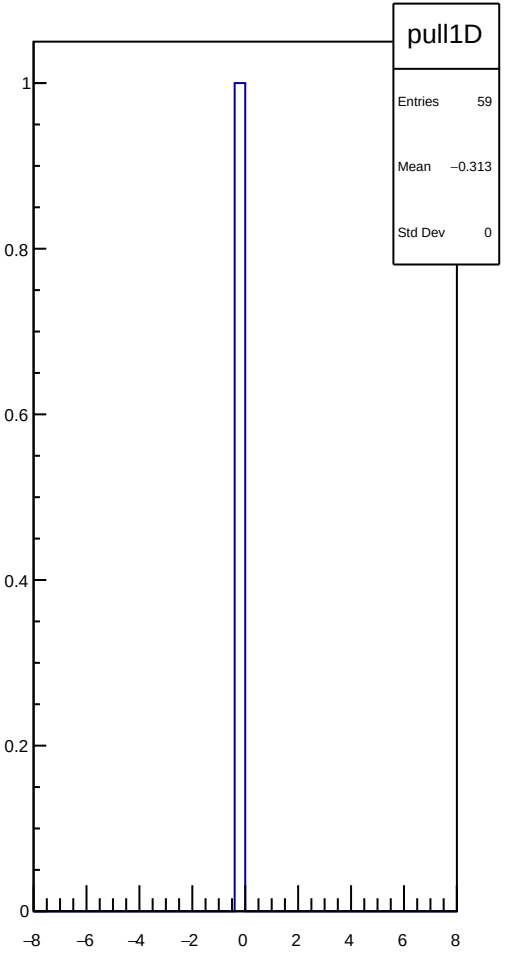

pull1D
Entries 59
Mean −0.5706
Std Dev 3.609
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

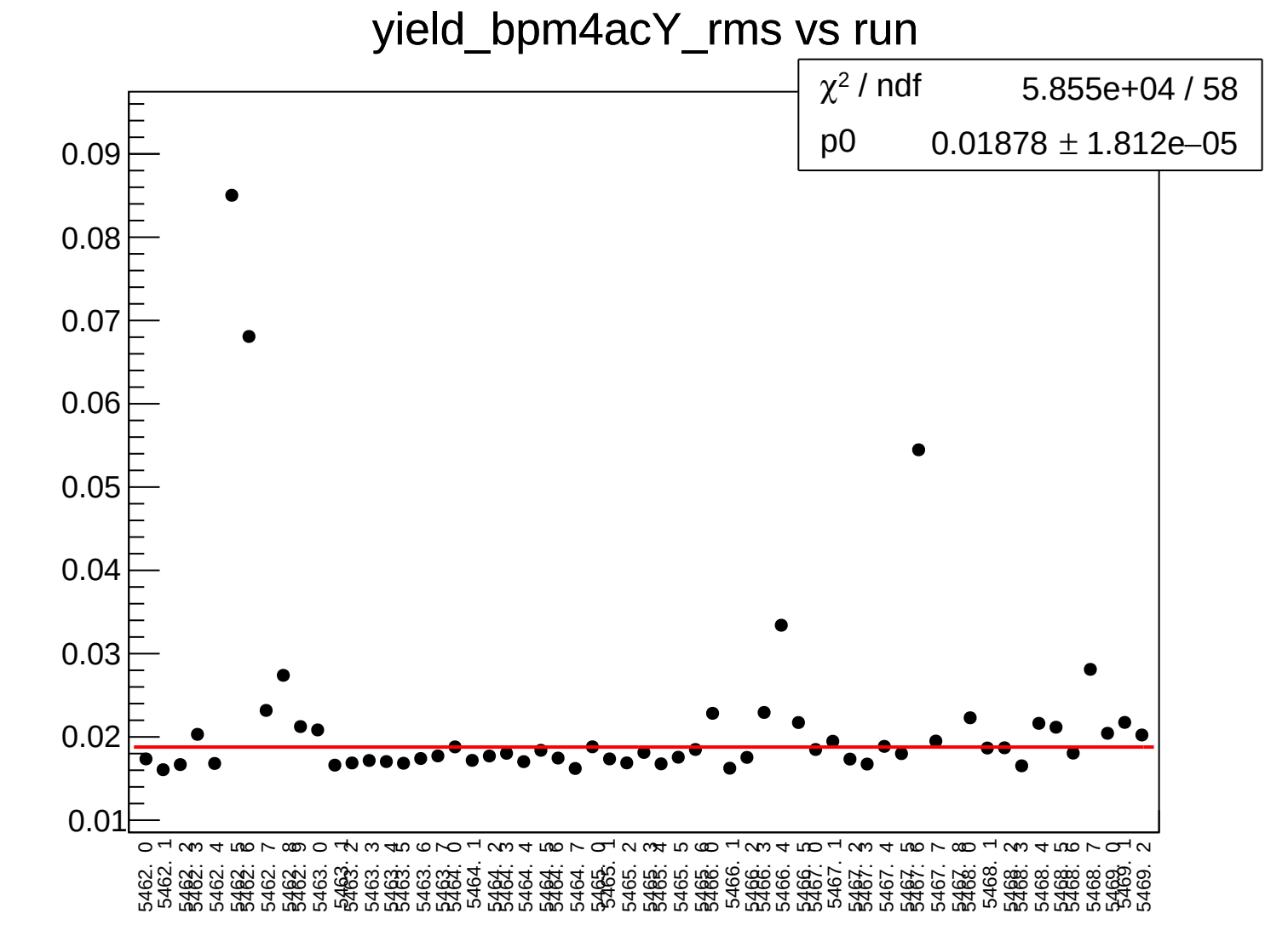

yield_bpm4eY_rms vs run
χ² / ndf 3.765e+04 / 58
p0 0.01597 ± 1.526e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

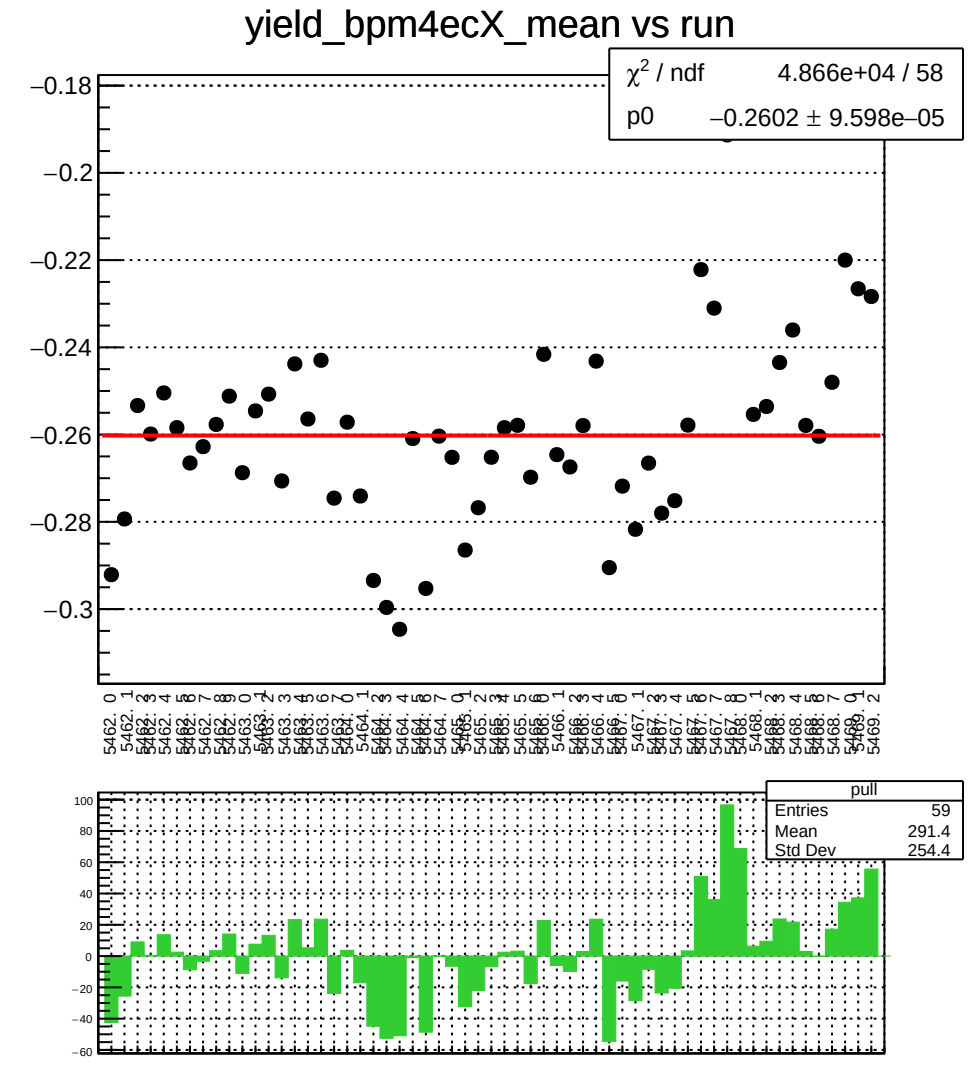

yield_bpm4acX_mean vs run
χ² / ndf 1.856e+05 / 58
p0 −1.038 ± 9.177e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 59
Mean −1791
Std Dev 1817
100
50
0
−50
−100
−150
pull1D
Entries 59
Mean 2.478
Std Dev 4.207
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

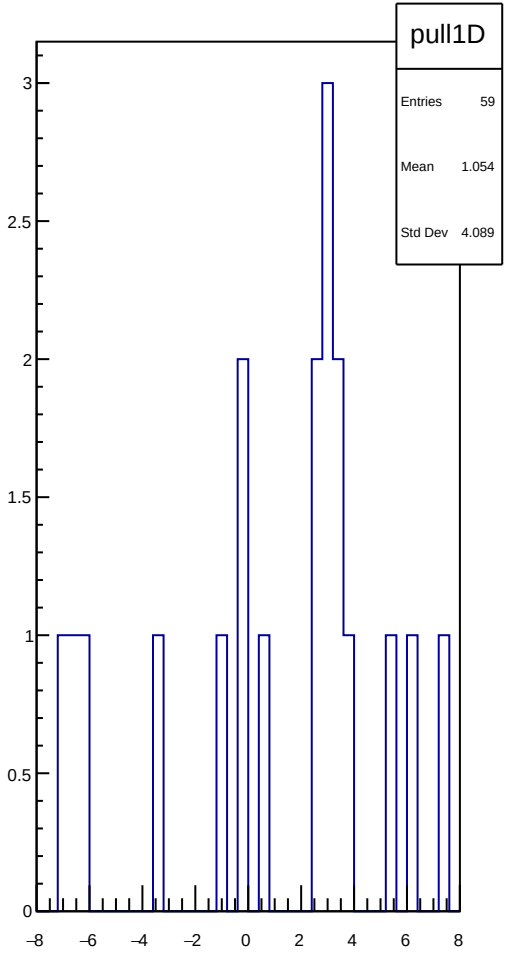

yield_bpm4acX_rms vs run
χ² / ndf 1.094e+04 / 58
p0 0.06873 ± 6.489e–05
0.11
0.1
0.09
0.08
0.07
0.06

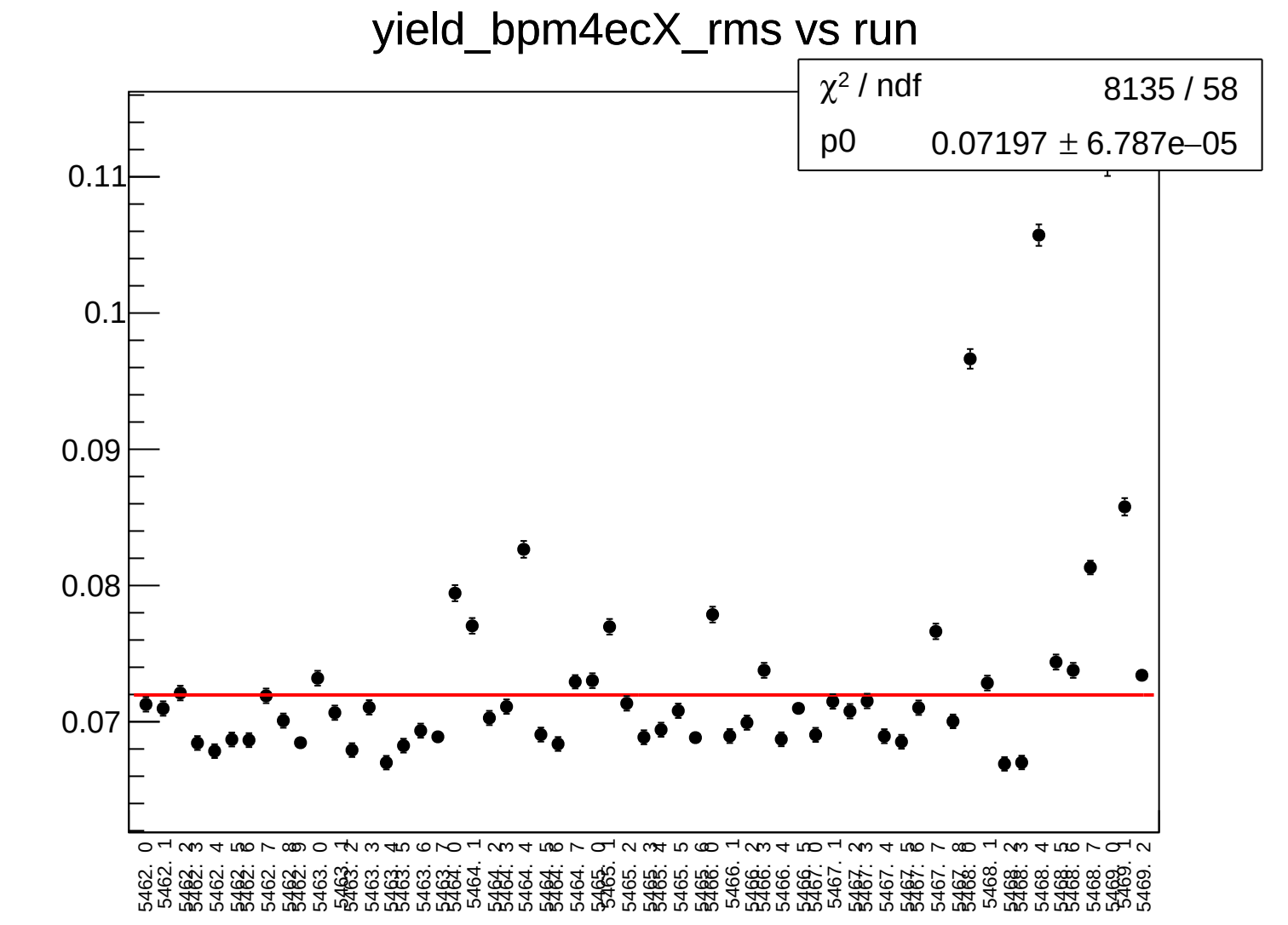

yield_bpm4acY_mean vs run
χ² / ndf 1.775e+06 / 58
p0 1.521± 2.563e−05
pull
Entries 59
Mean −210.4
Std Dev 226.2

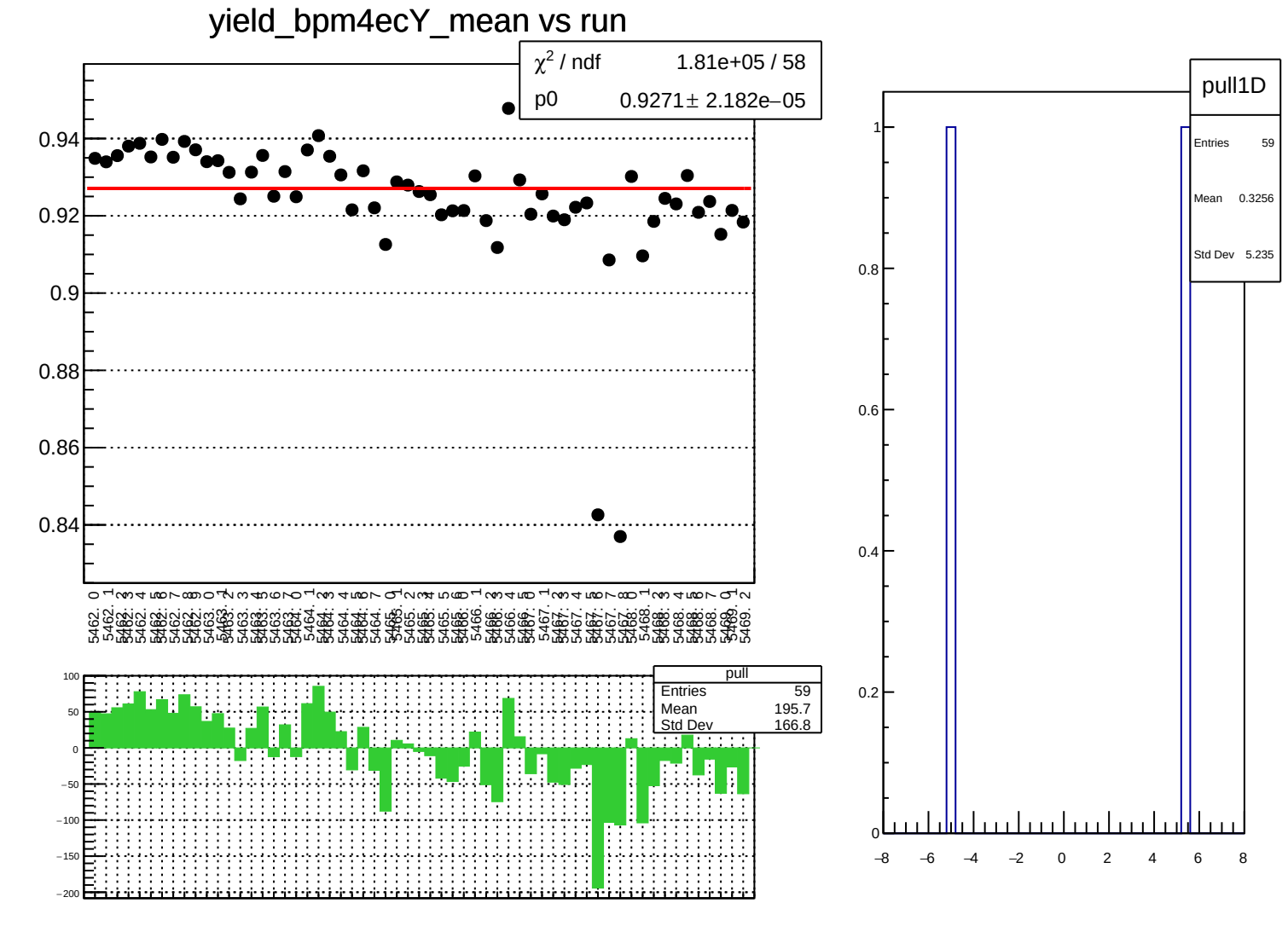

pull1D
Entries 59
Mean −0.313
Std Dev 0

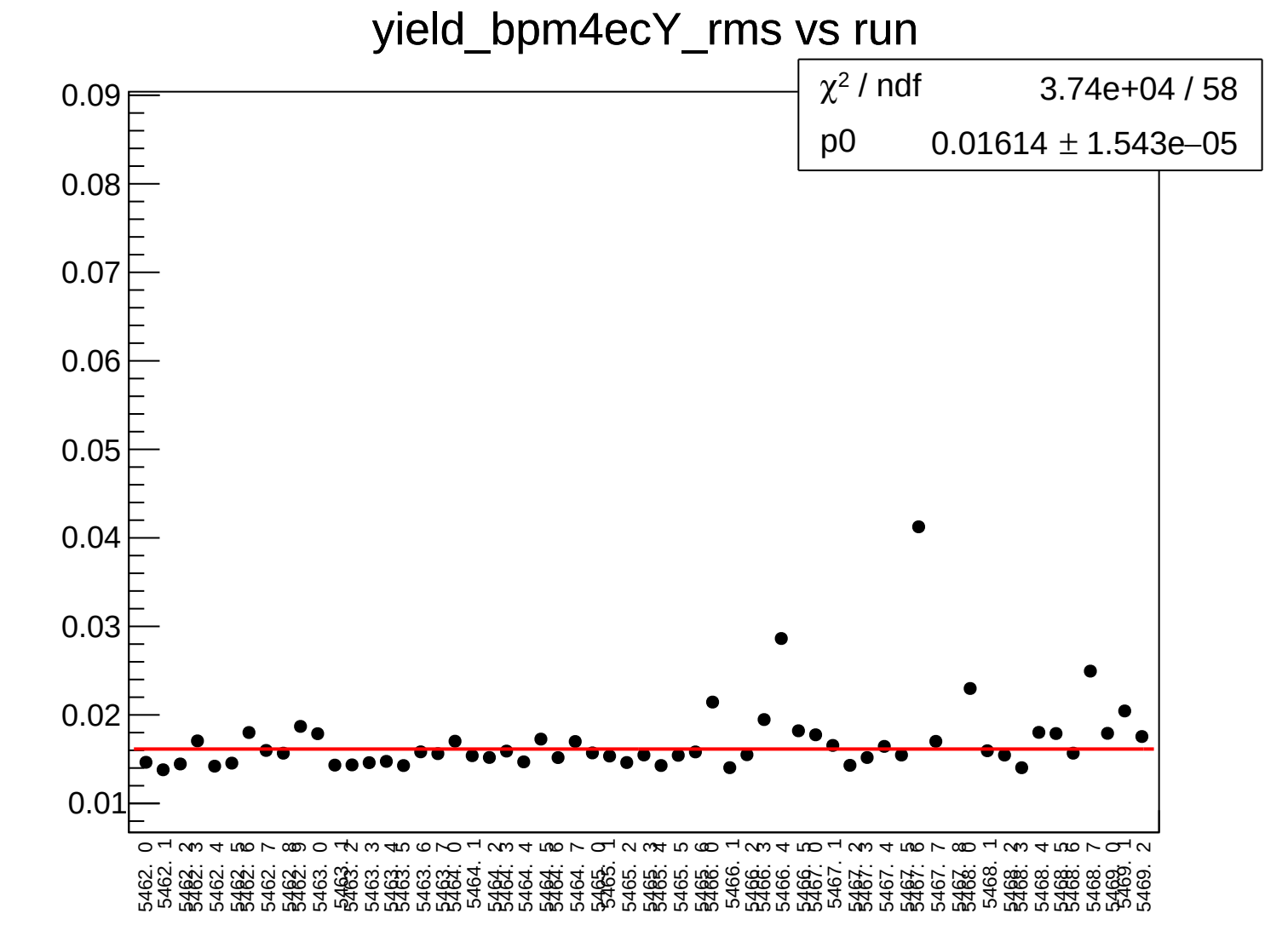

yield_bpm4acY_rms vs run
χ² / ndf 5.855e+04 / 58
p0 0.01878 ± 1.812e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

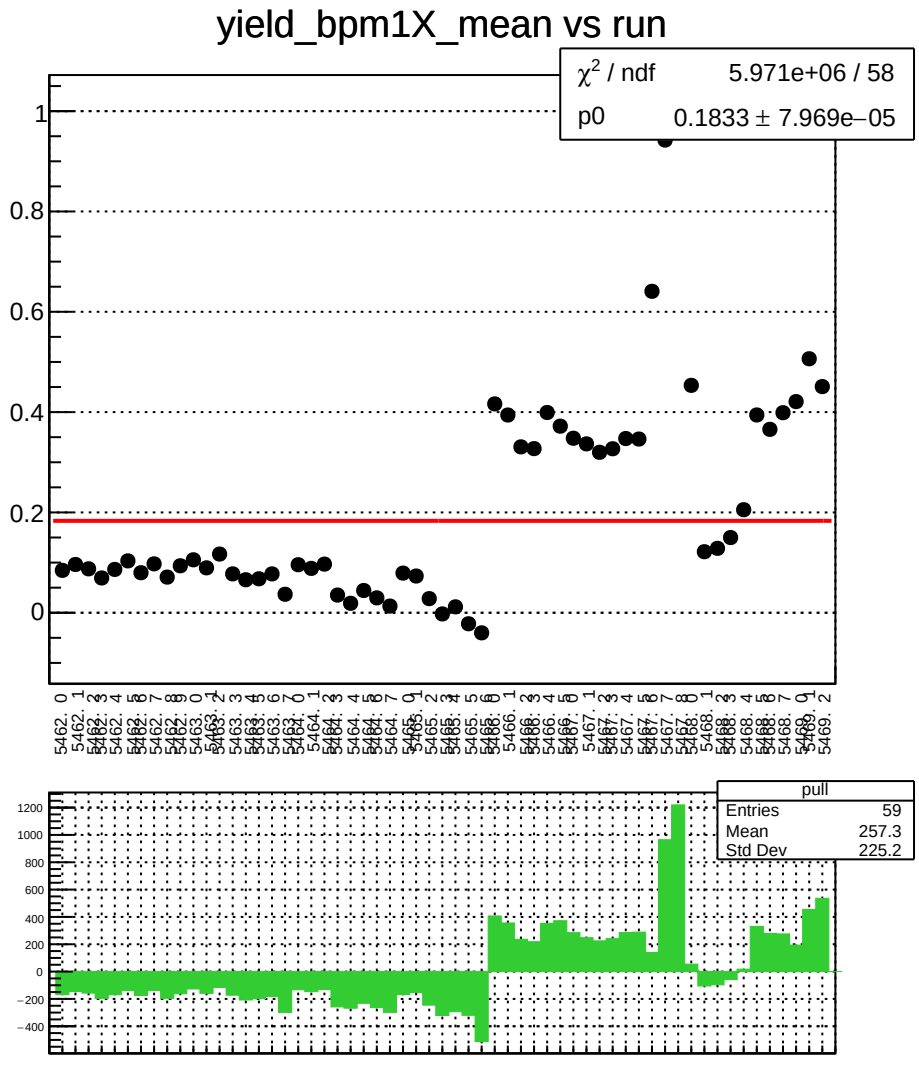

yield_bpm4ecX_mean vs run
χ² / ndf 4.866e+04 / 58
p0 −0.2602 ± 9.598e−05
pull
Entries 59
Mean 291.4
Std Dev 254.4

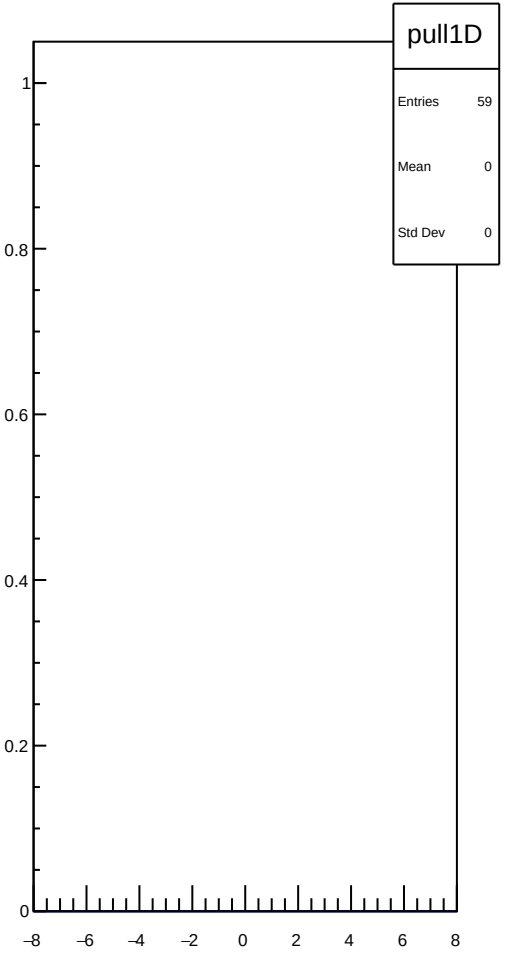

pull1D
Entries 59
Mean 1.054
Std Dev 4.089

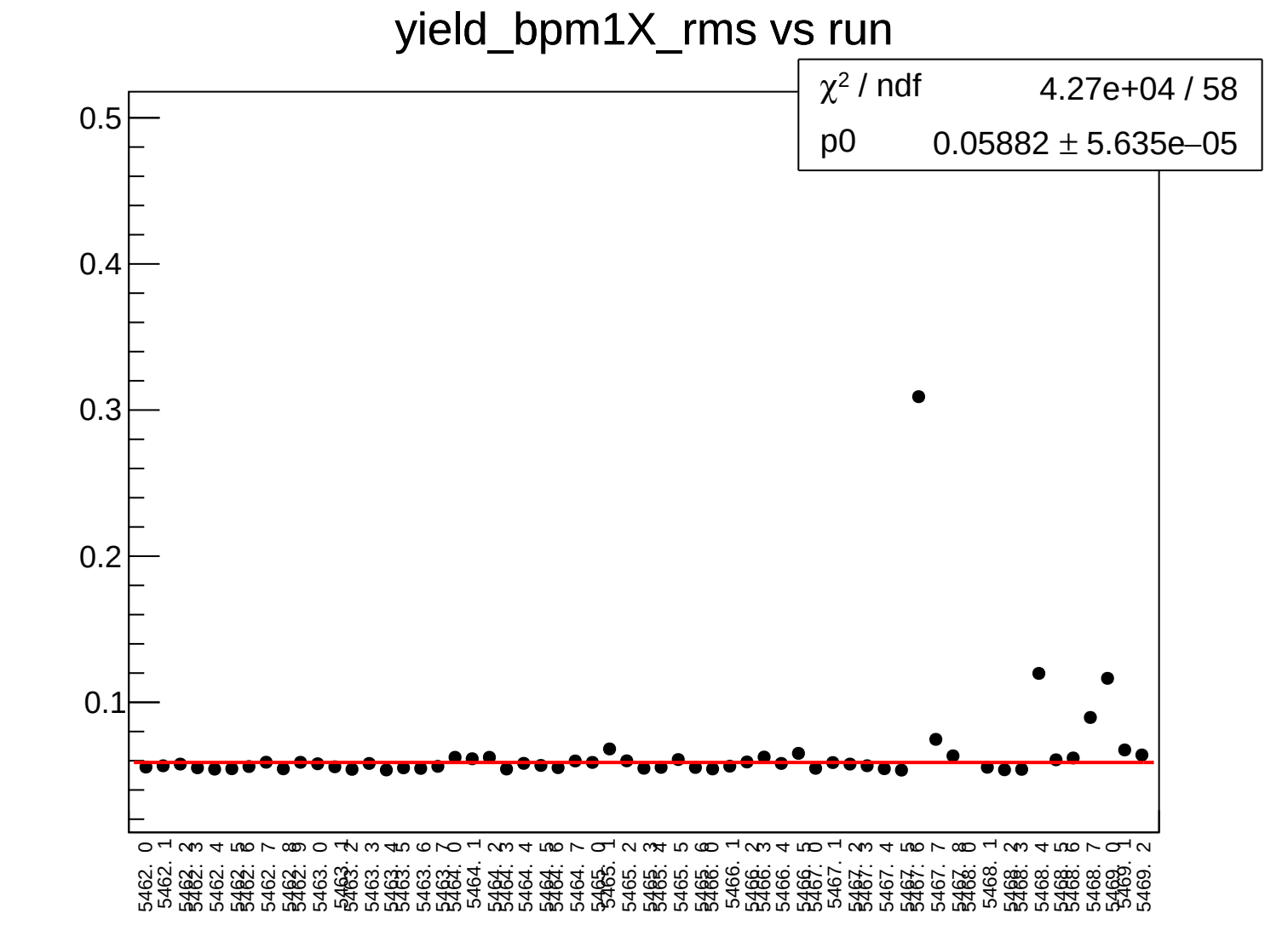

yield_bpm4ecX_rms vs run
χ² / ndf 8135 / 58
p0 0.07197 ± 6.787e–05
0.11
0.1
0.09
0.08
0.07

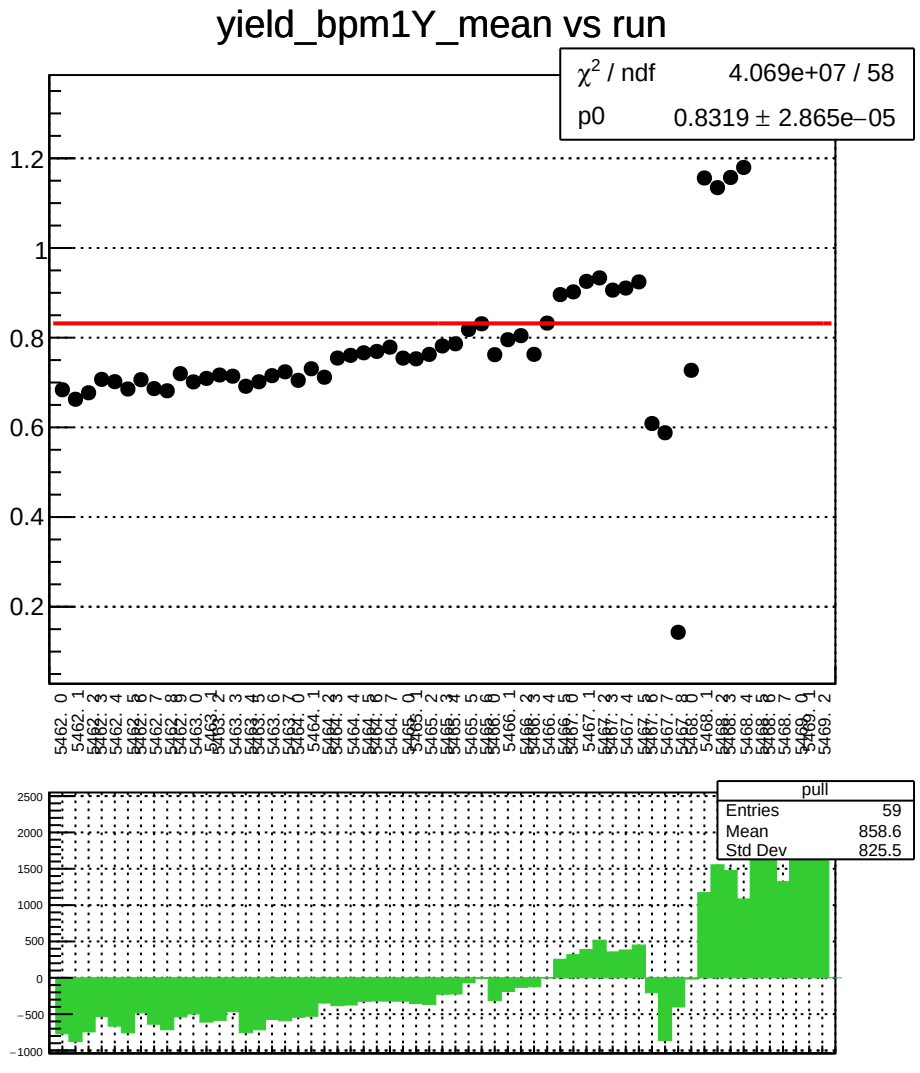

yield_bpm4ecY_mean vs run
χ² / ndf 1.81e+05 / 58
p0 0.9271 ± 2.182e−05
0.94
0.92
0.9
0.88
0.86
0.84
pull
Entries 59
Mean 195.7
Std Dev 166.8
100
50
0
−50
−100
−150
−200
pull1D
Entries 59
Mean 0.3256
Std Dev 5.235
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

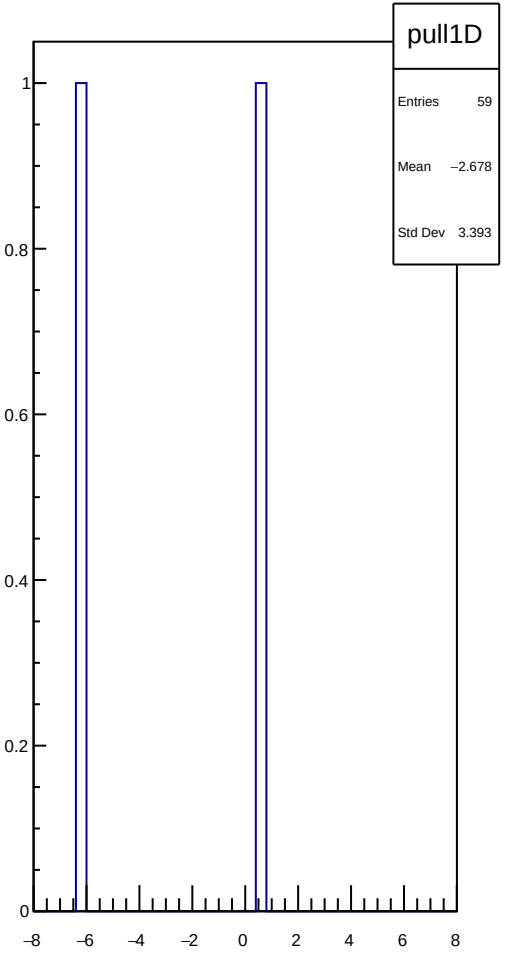

yield_bpm4ecY_rms vs run
χ² / ndf 3.74e+04 / 58
p0 0.01614 ± 1.543e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

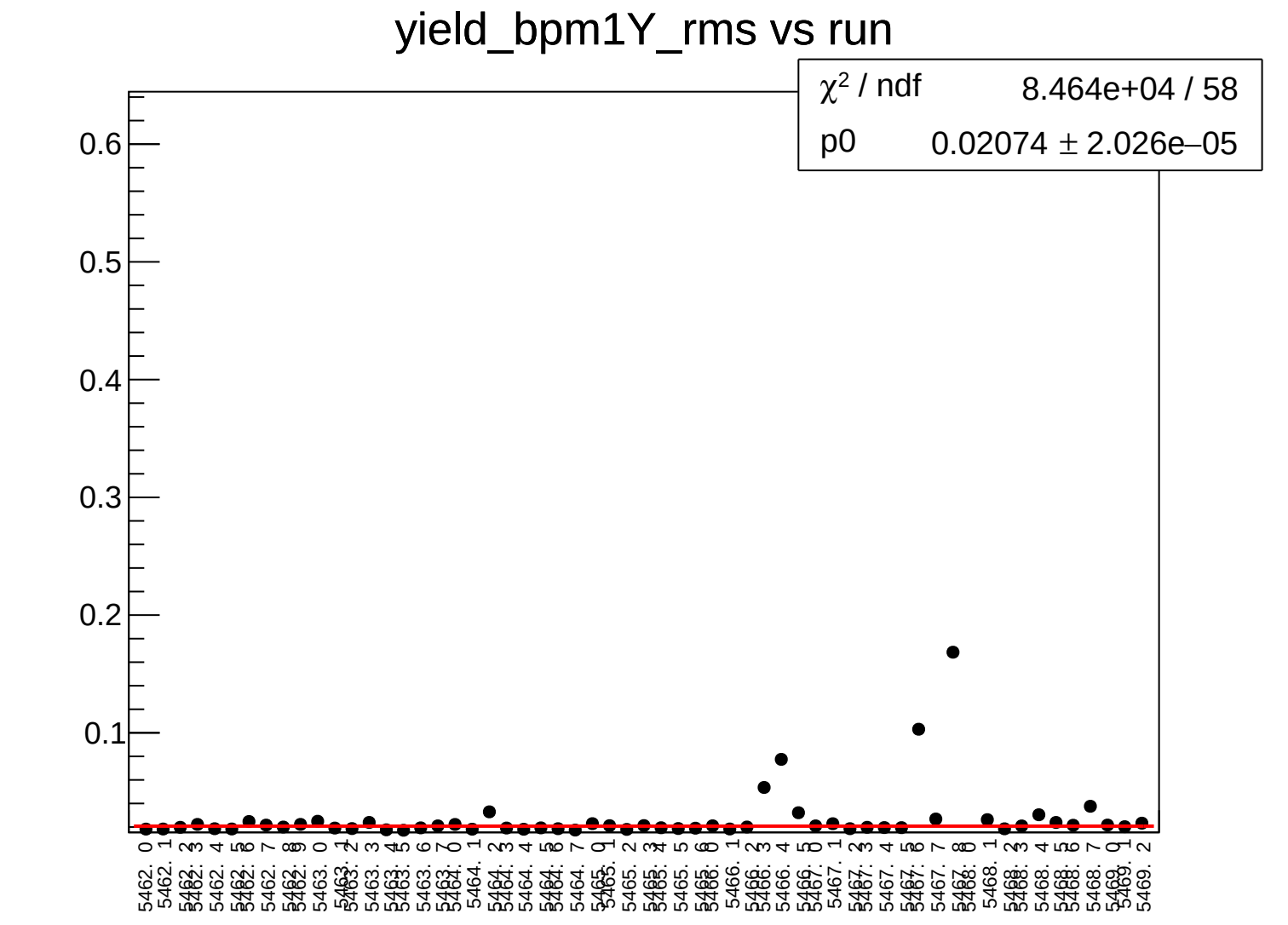

yield_bpm1X_mean vs run
χ² / ndf 5.971e+06 / 58
p0 0.1833 ± 7.969e−05
pull
Entries 59
Mean 257.3
Std Dev 225.2

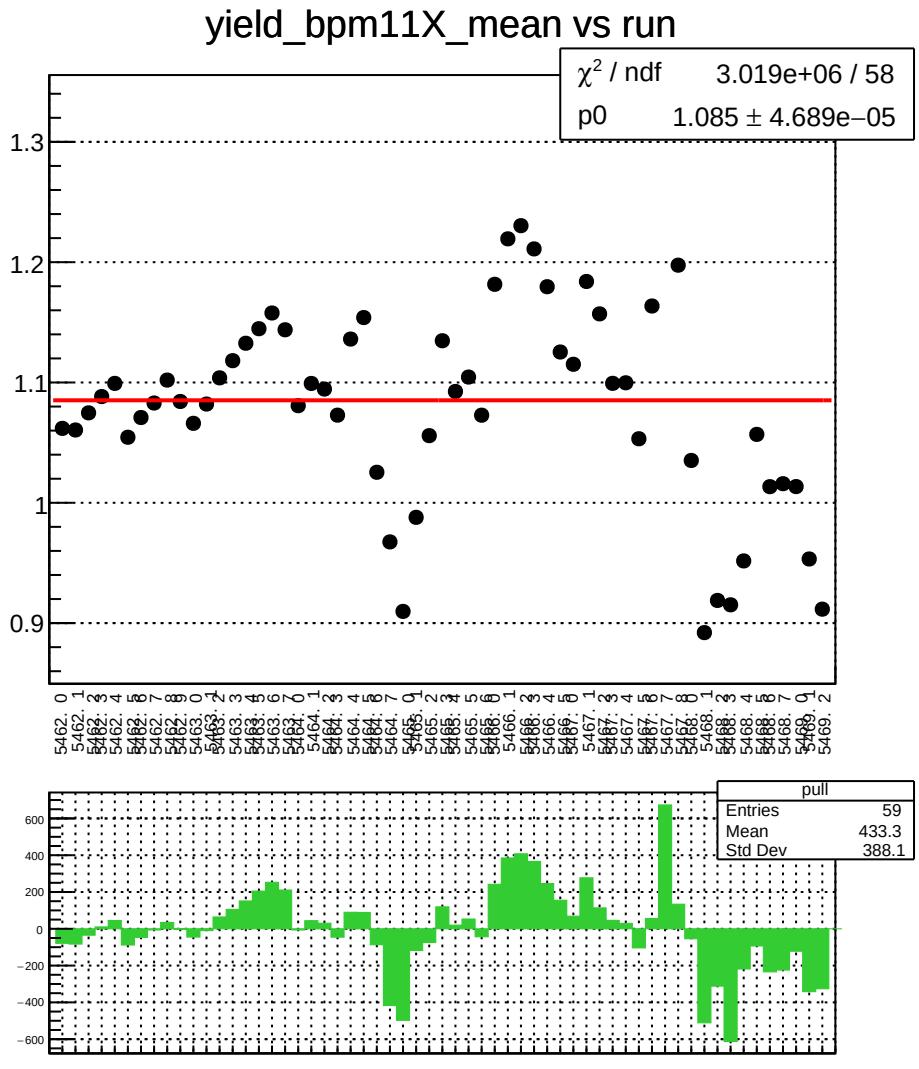

pull1D
Entries 59
Mean 0
Std Dev 0

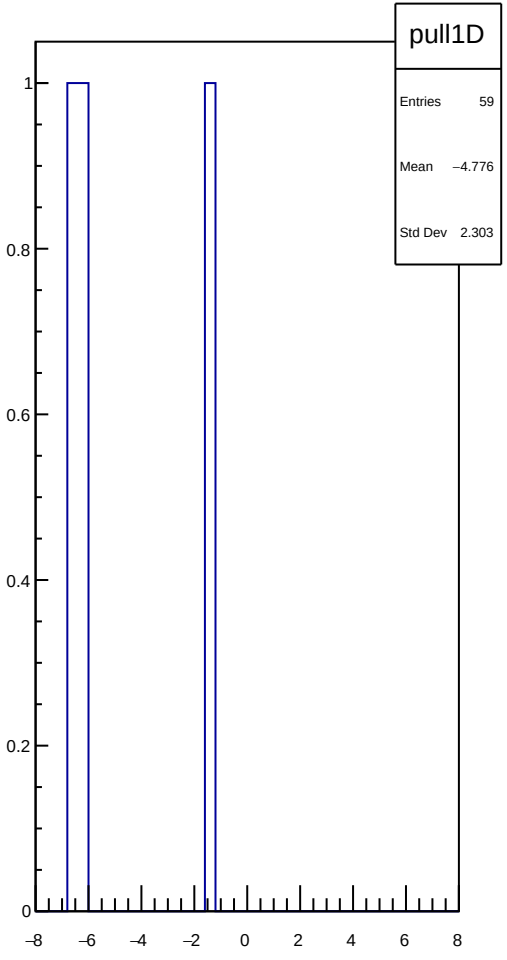

yield_bpm1X_rms vs run
χ² / ndf 4.27e+04 / 58
p0 0.05882 ± 5.635e–05
0.5
0.4
0.3
0.2
0.1

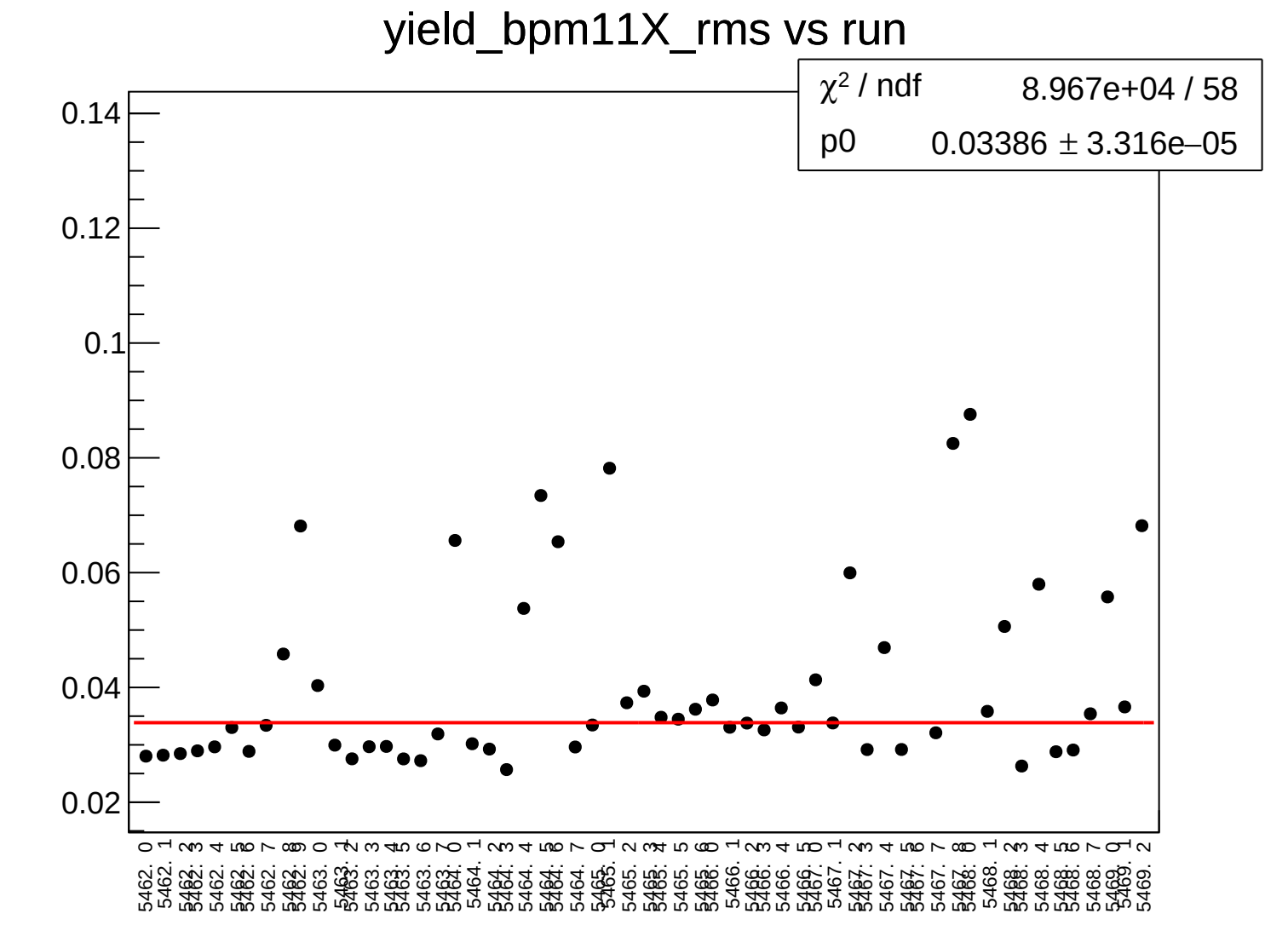

yield_bpm1Y_mean vs run
χ² / ndf 4.069e+07 / 58
p0 0.8319 ± 2.865e−05
pull
Entries 59
Mean 858.6
Std Dev 825.5

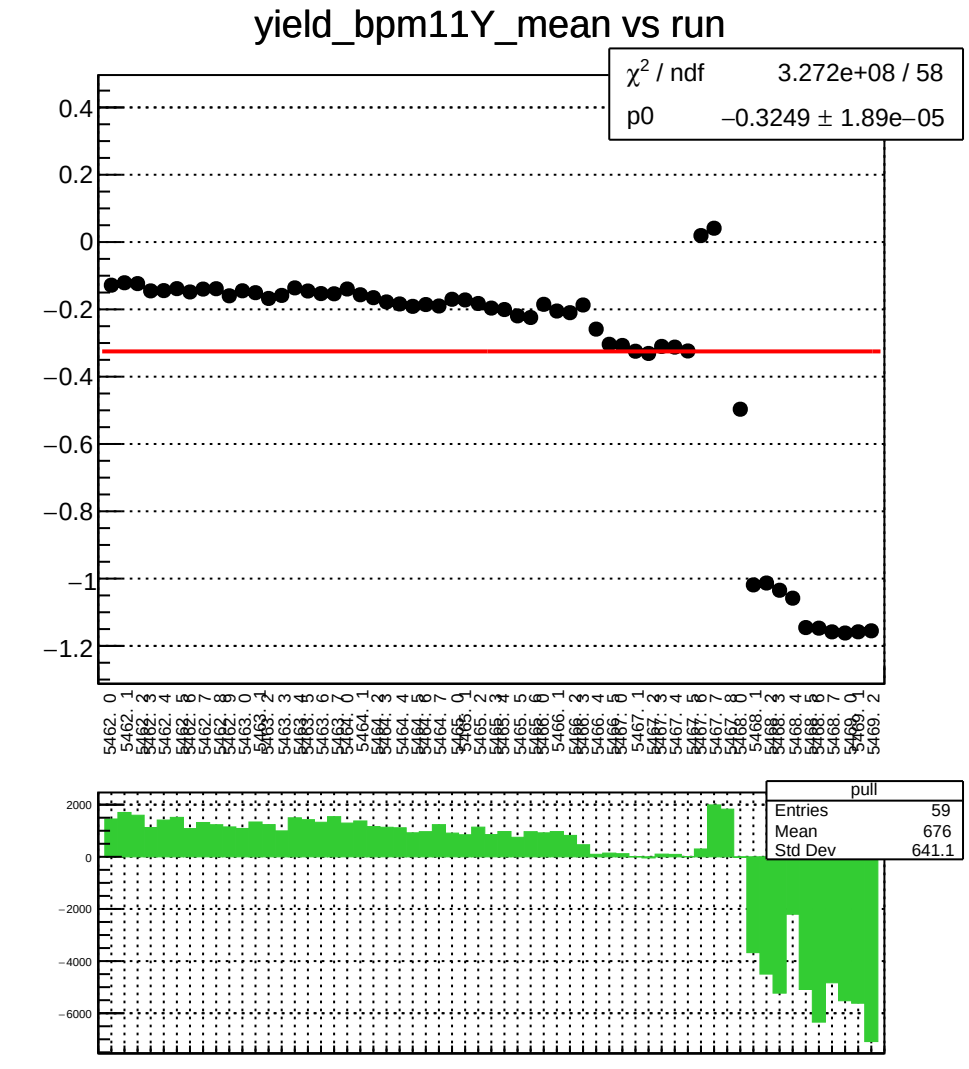

pull1D
Entries 59
Mean −2.678
Std Dev 3.393

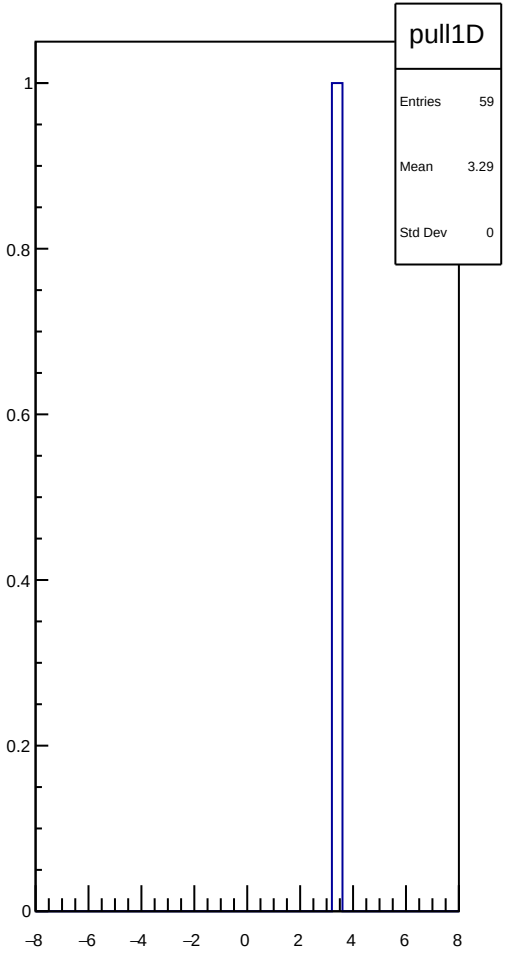

yield_bpm1Y_rms vs run
χ² / ndf 8.464e+04 / 58
p0 0.02074 ± 2.026e−05
0.6
0.5
0.4
0.3
0.2
0.1

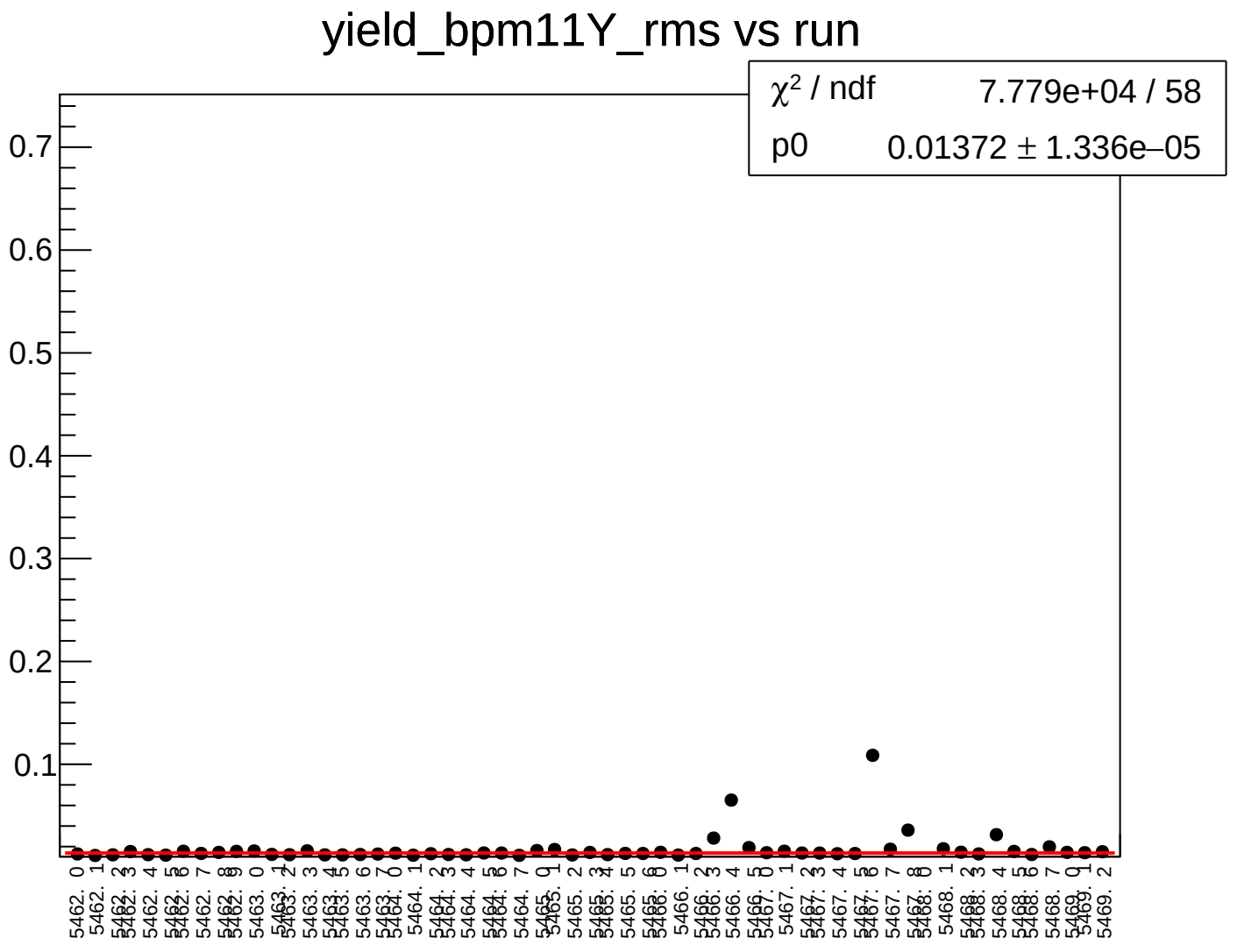

yield_bpm11X_mean vs run
χ² / ndf 3.019e+06 / 58
p0 1.085 ± 4.689e−05
1.3
1.2
1.1
1
0.9
pull
Entries 59
Mean 433.3
Std Dev 388.1
600
400
200
0
−200
−400
−600

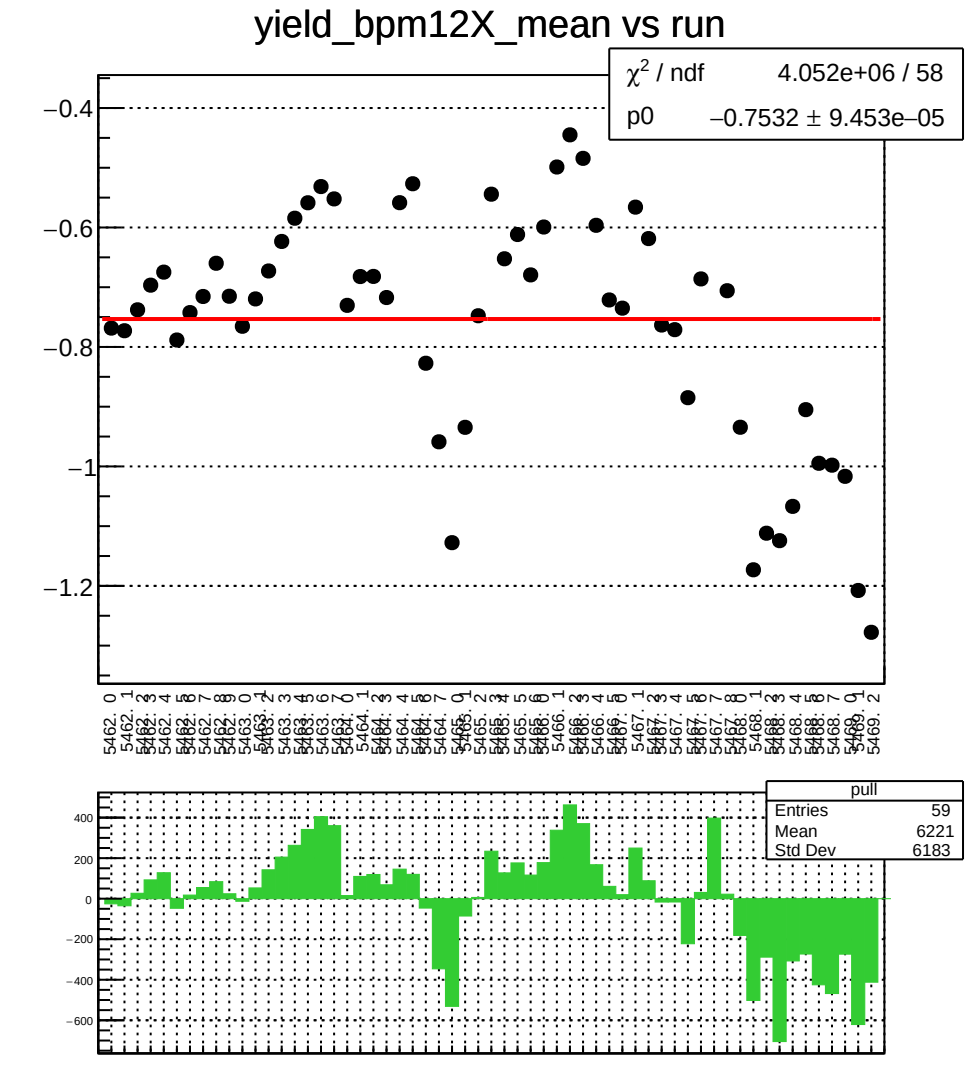

pull1D
Entries 59
Mean −4.776
Std Dev 2.303
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

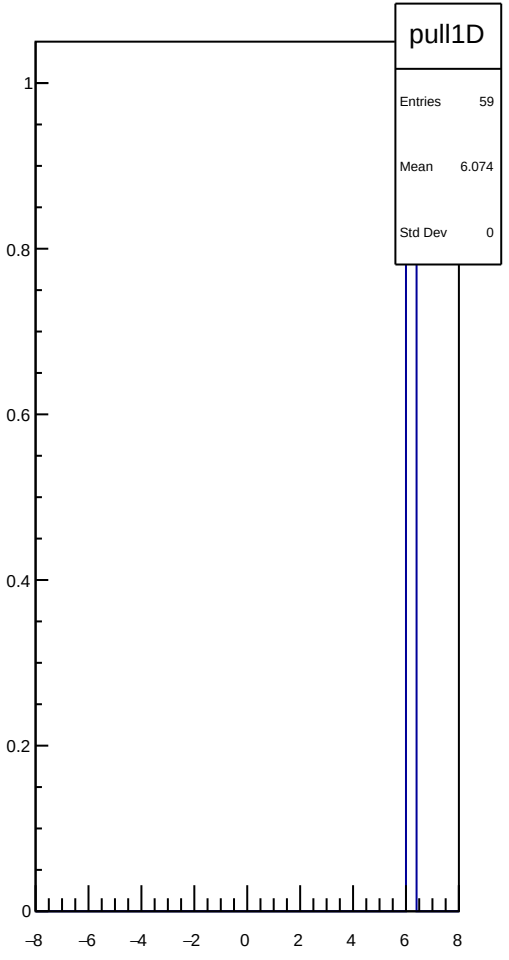

yield_bpm11X_rms vs run
χ² / ndf 8.967e+04 / 58
p0 0.03386 ± 3.316e–05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

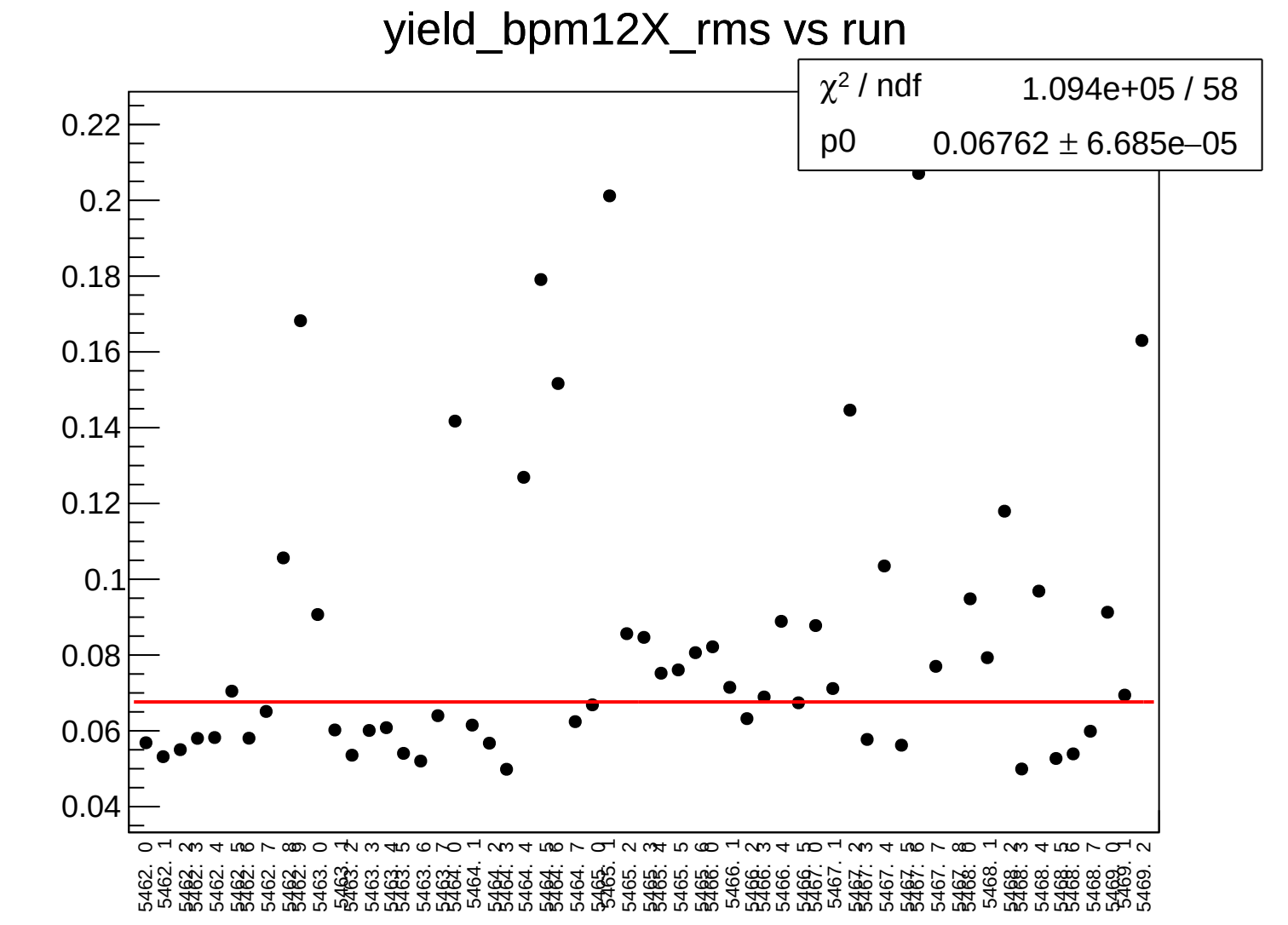

yield_bpm11Y_mean vs run
χ² / ndf 3.272e+08 / 58
p0 −0.3249 ± 1.89e−05
pull
Entries 59
Mean 676
Std Dev 641.1

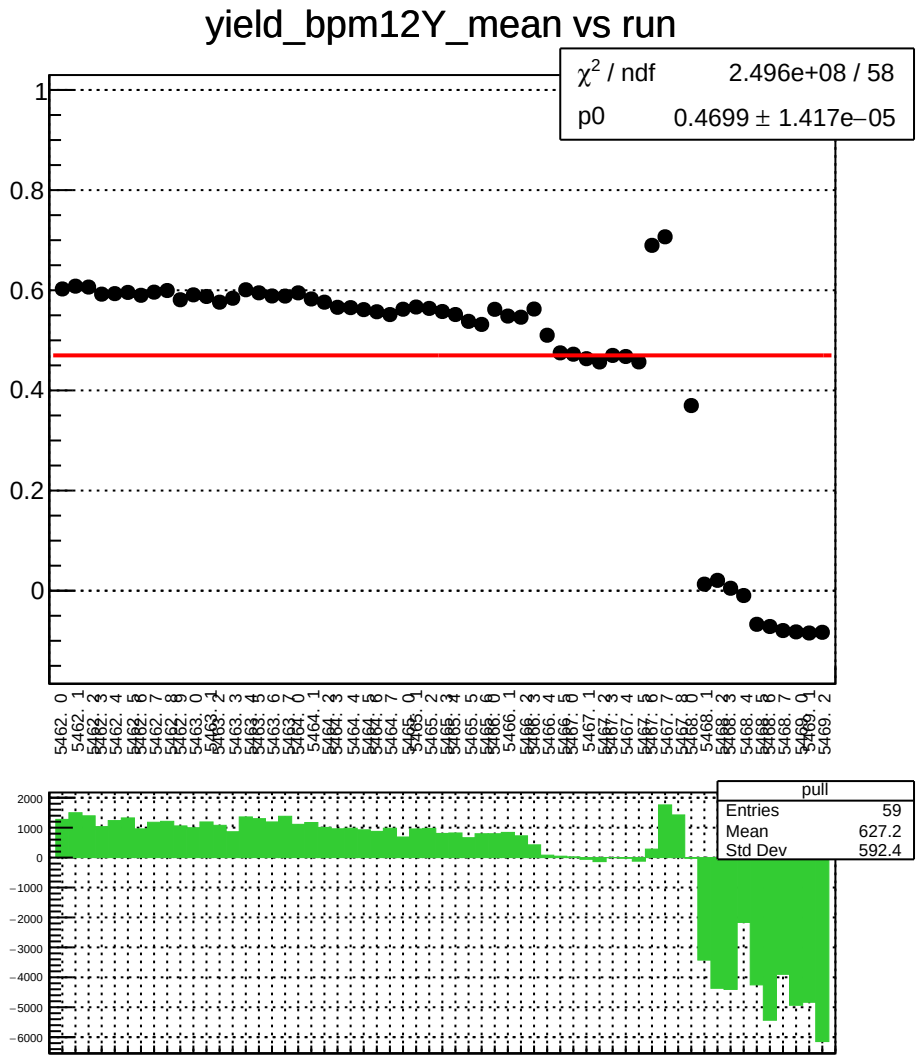

pull1D
Entries 59
Mean 3.29
Std Dev 0

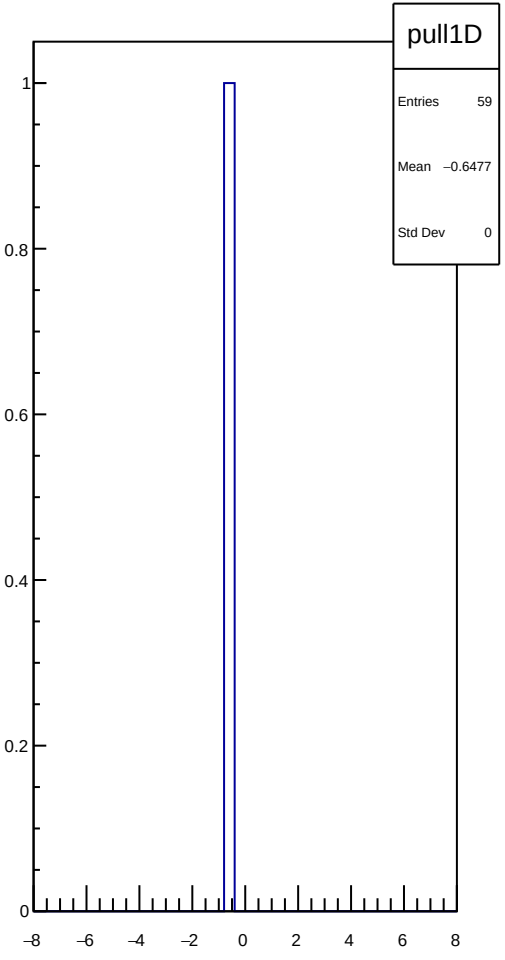

yield_bpm11Y_rms vs run
χ² / ndf 7.779e+04 / 58
p0 0.01372 ± 1.336e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

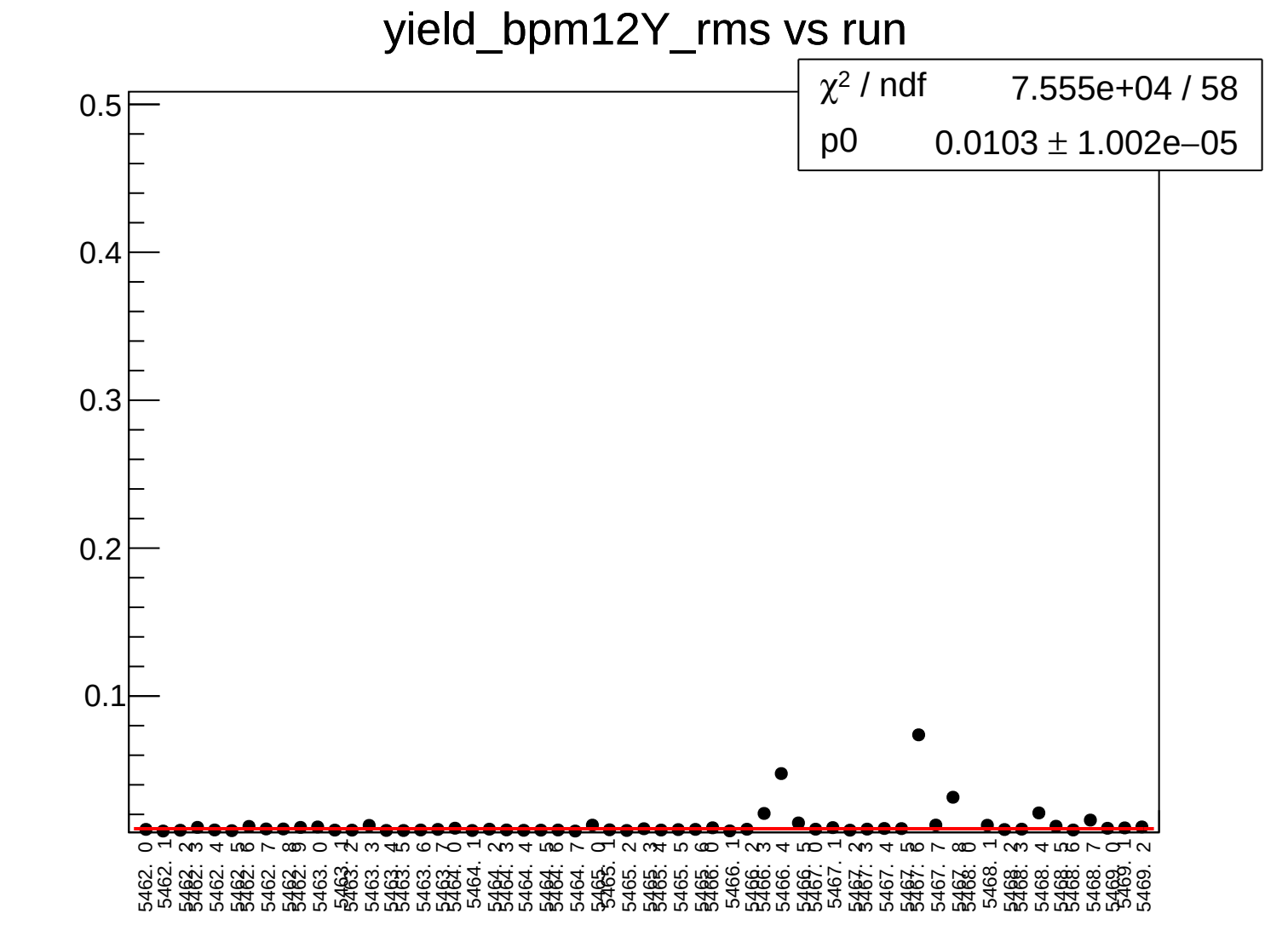

yield_bpm12X_mean vs run
χ² / ndf 4.052e+06 / 58
p0 −0.7532 ± 9.453e−05
−0.4
−0.6
−0.8
−1
−1.2
pull
Entries 59
Mean 6221
Std Dev 6183
400
200
0
−200
−400
−600

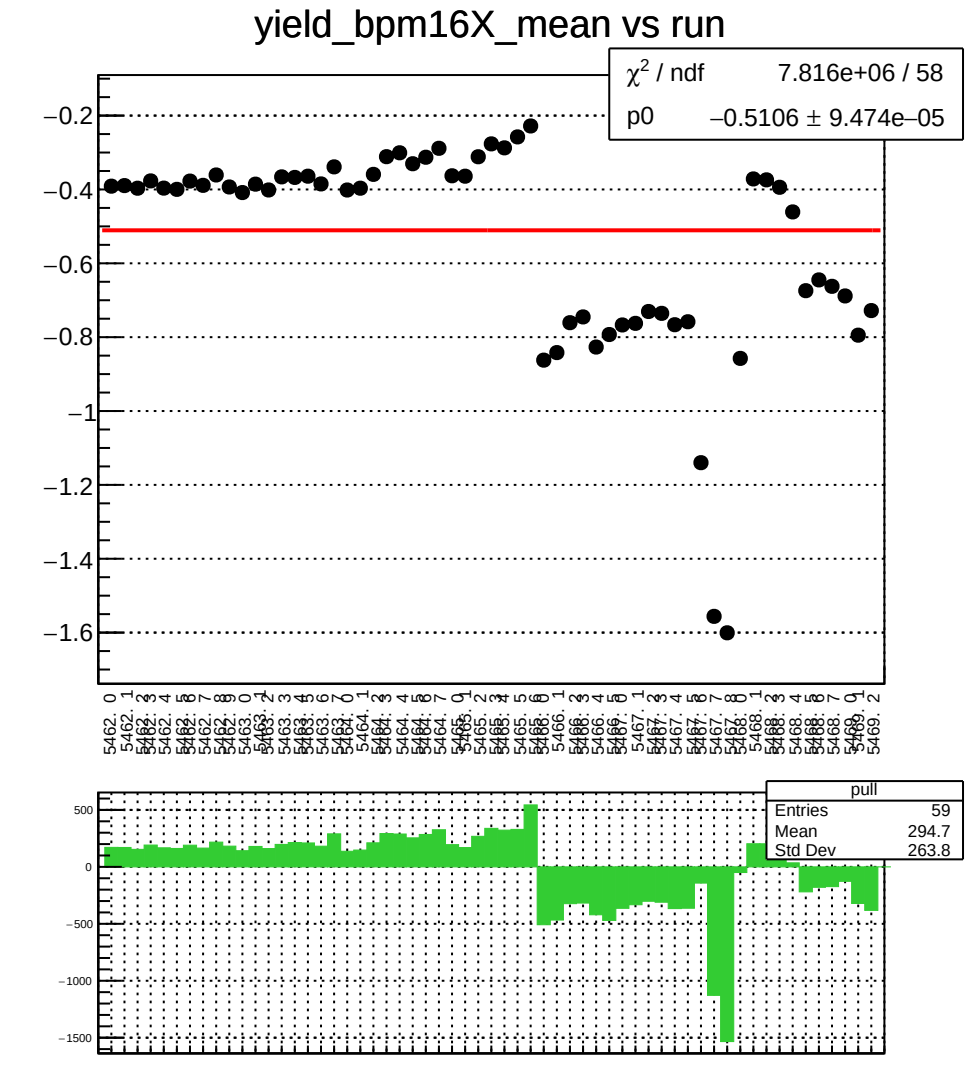

pull1D
Entries 59
Mean 6.074
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

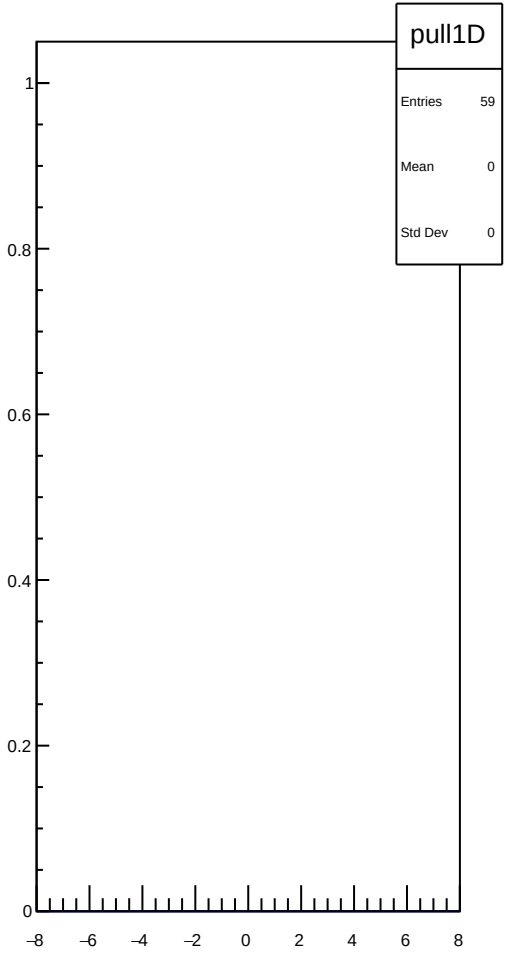

yield_bpm12X_rms vs run
χ² / ndf 1.094e+05 / 58
p0 0.06762 ± 6.685e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5464. 8
5464. 9
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5465. 7
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5466. 6
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5467. 9
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

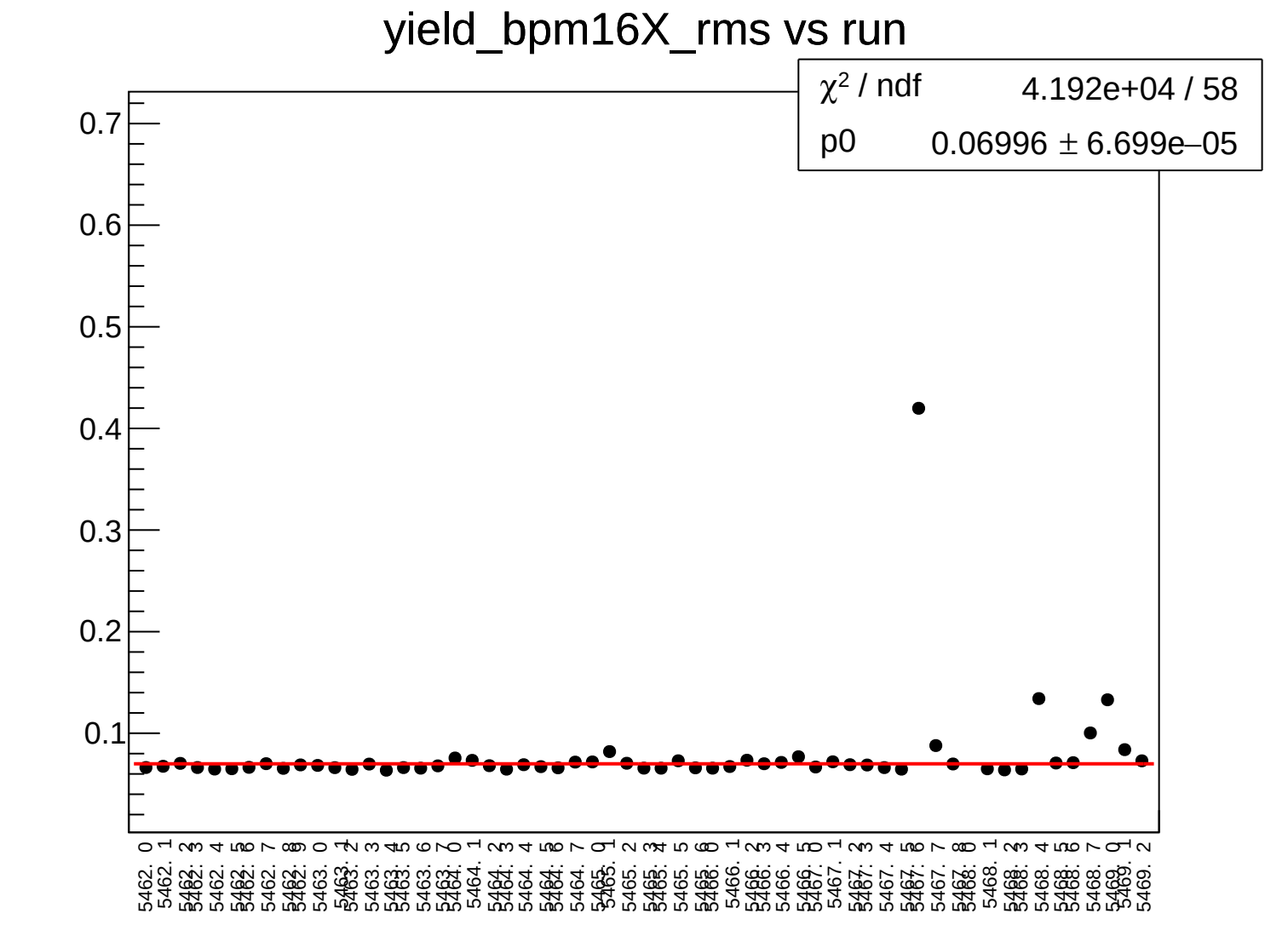

yield_bpm12Y_mean vs run
χ² / ndf 2.496e+08 / 58
p0 0.4699 ± 1.417e−05
pull
Entries 59
Mean 627.2
Std Dev 592.4

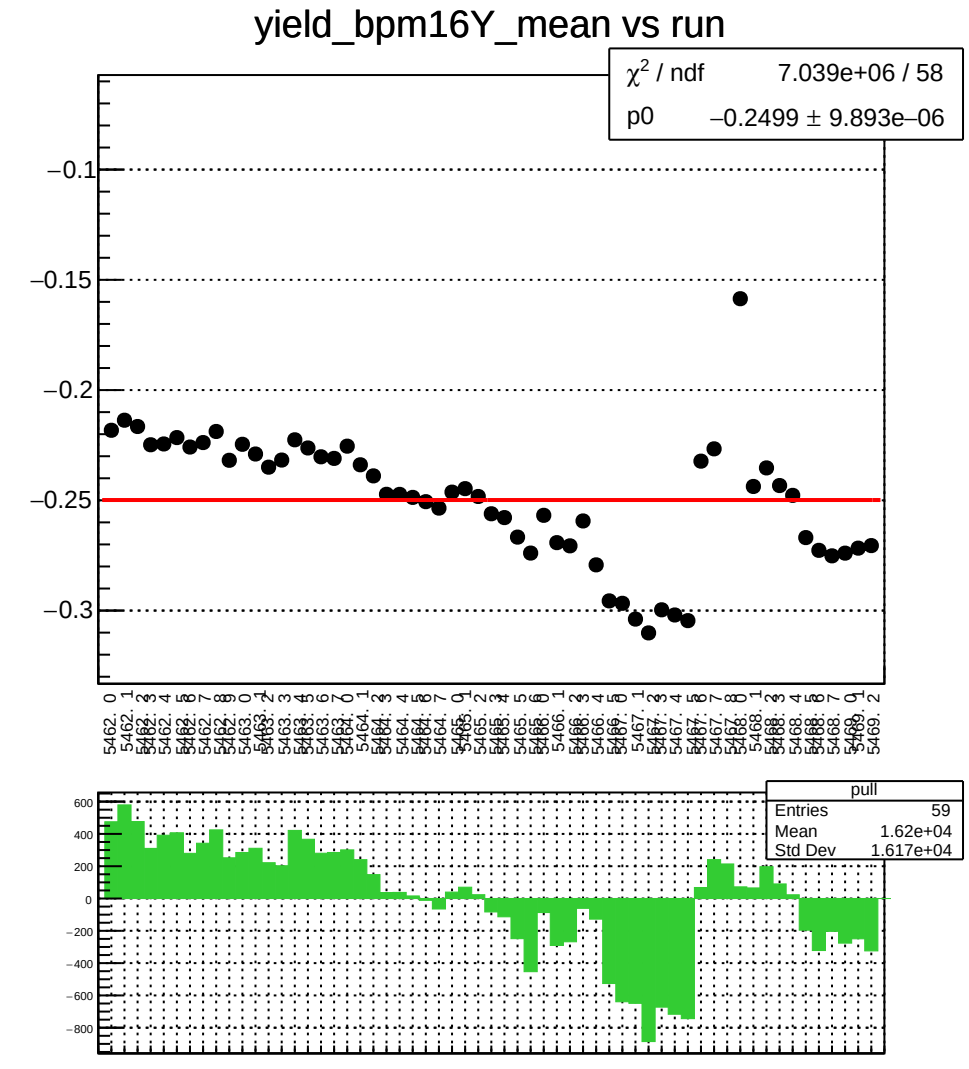

pull1D
Entries 59
Mean −0.6477
Std Dev 0

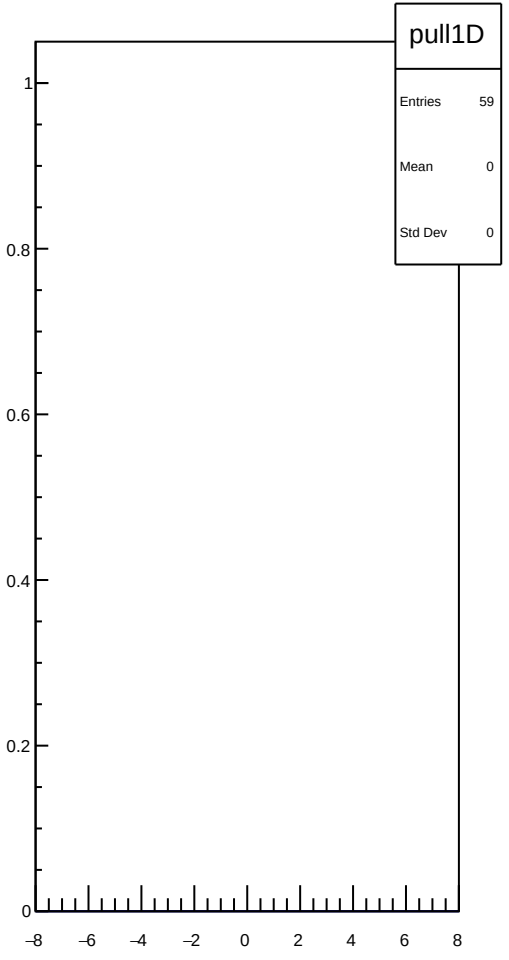

yield_bpm12Y_rms vs run
χ² / ndf 7.555e+04 / 58
p0 0.0103 ± 1.002e−05
0.5
0.4
0.3
0.2
0.1

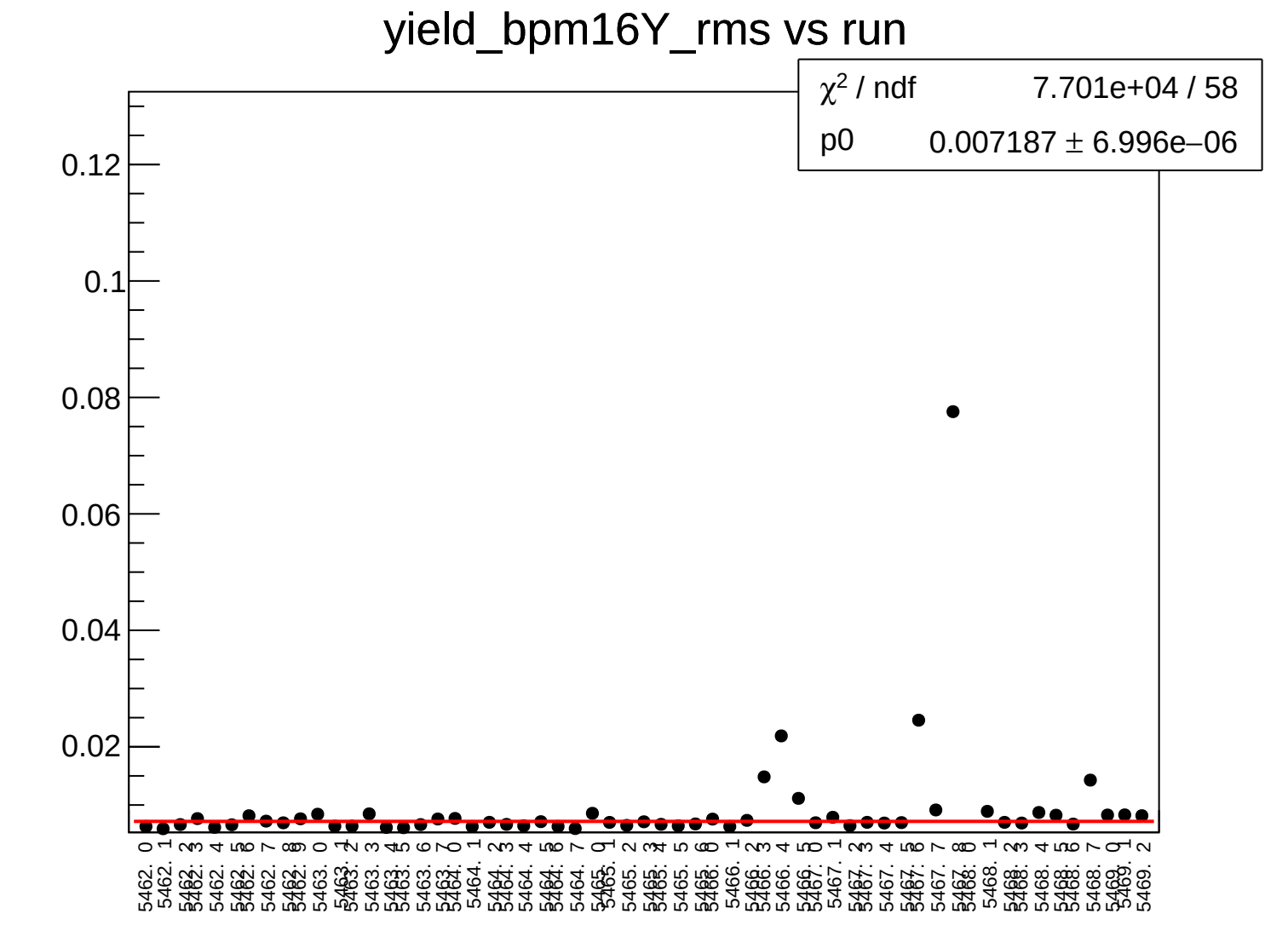

yield_bpm16X_mean vs run
χ² / ndf 7.816e+06 / 58
p0 −0.5106 ± 9.474e−05
pull
Entries 59
Mean 294.7
Std Dev 263.8

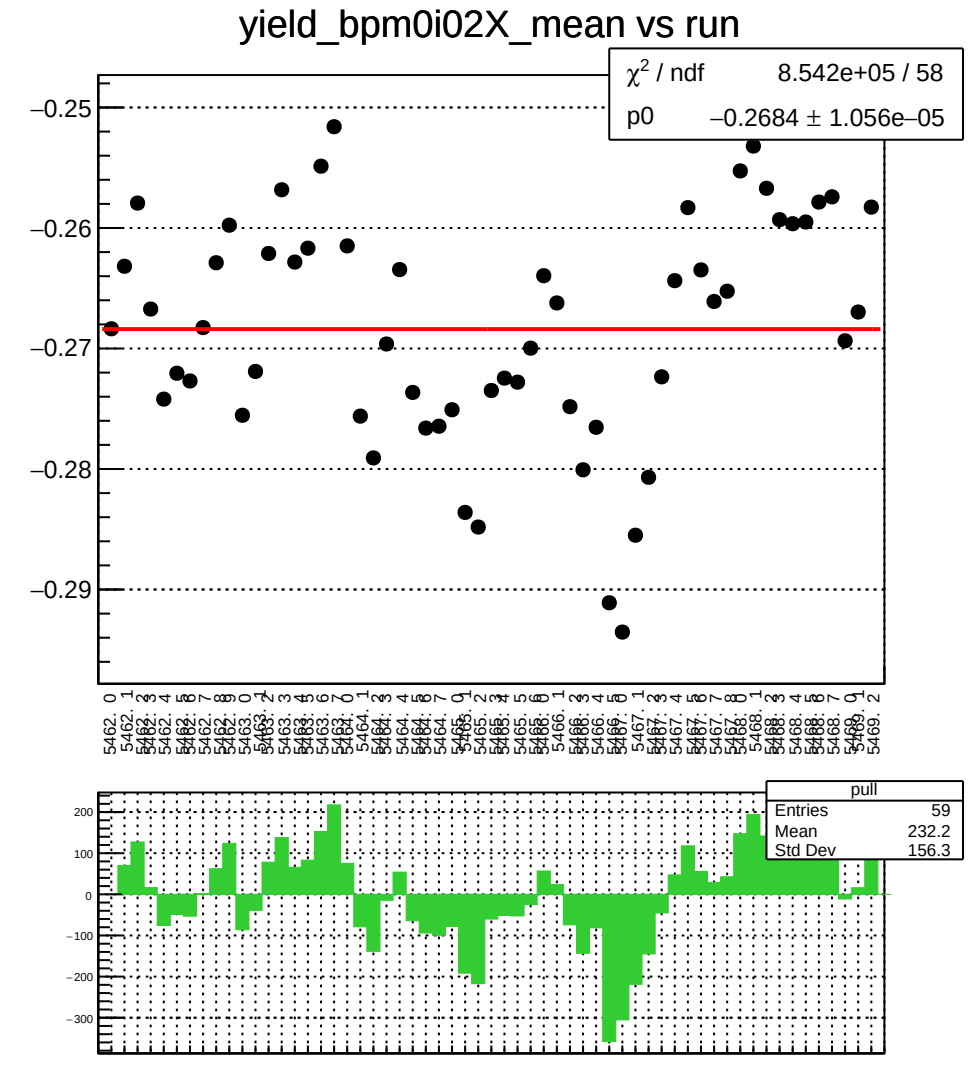

pull1D
Entries 59
Mean 0
Std Dev 0

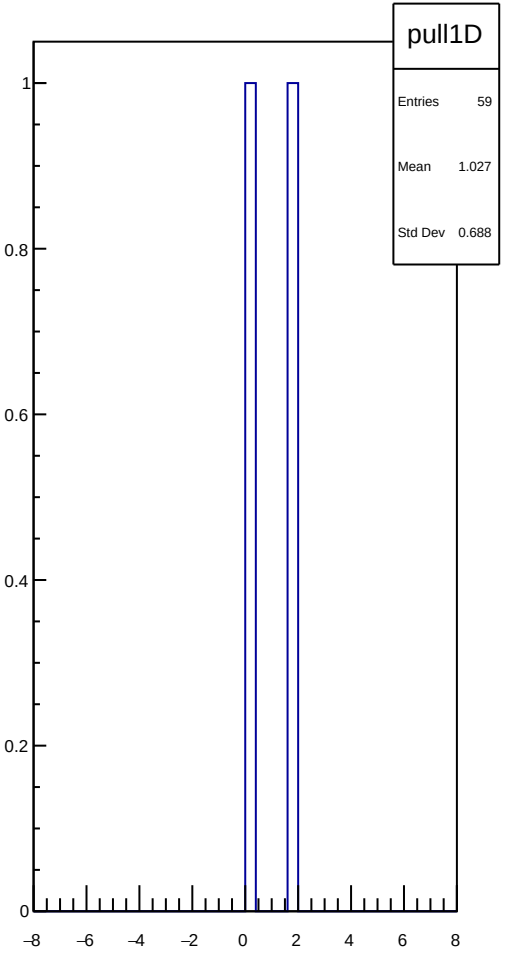

yield_bpm16X_rms vs run
χ² / ndf 4.192e+04 / 58
p0 0.06996 ± 6.699e–05
0.7
0.6
0.5
0.4
0.3
0.2
0.1

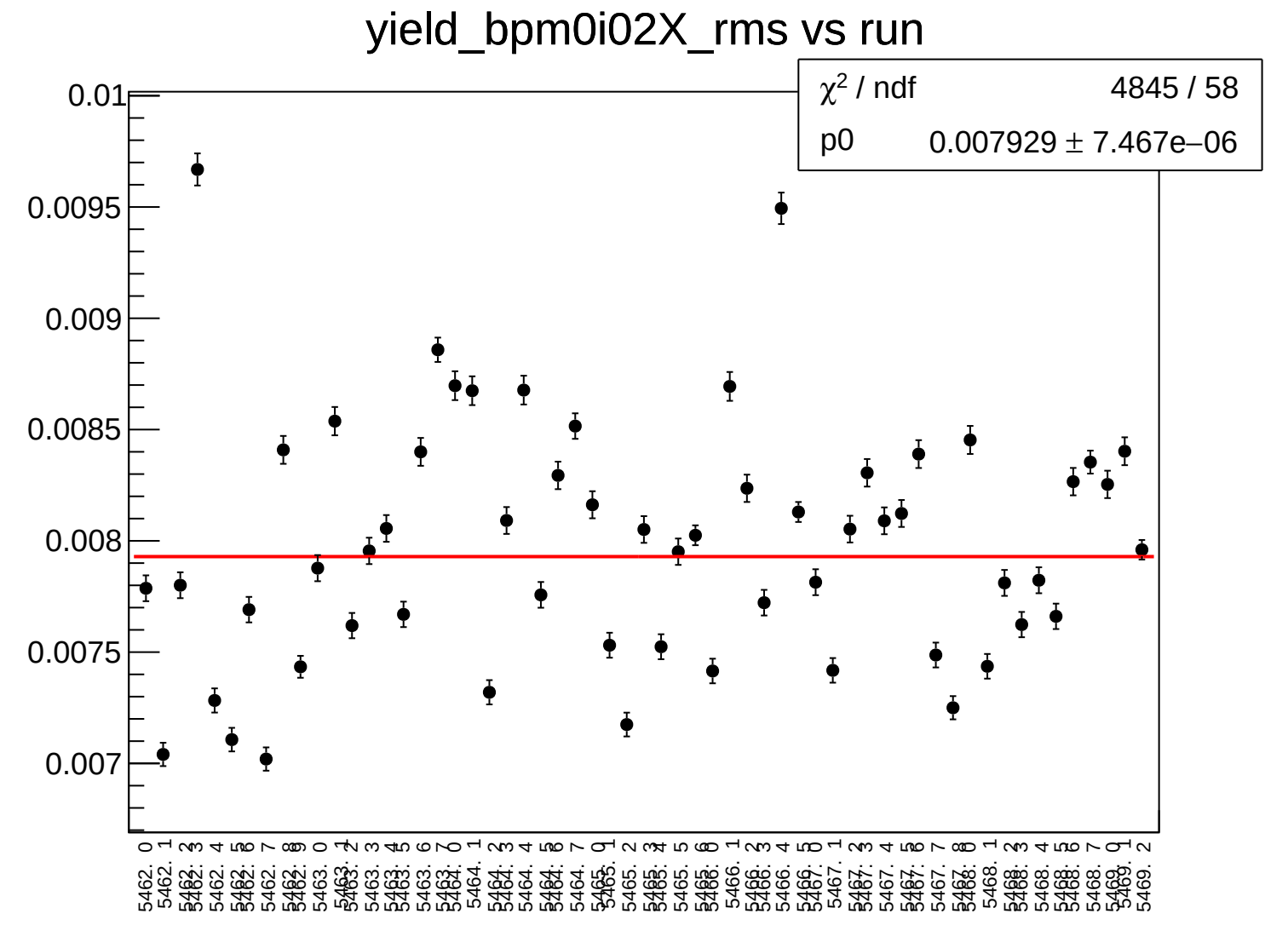

yield_bpm16Y_mean vs run
χ² / ndf 7.039e+06 / 58
p0 −0.2499 ± 9.893e−06
−0.1
−0.15
−0.2
−0.25
−0.3
pull
Entries 59
Mean 1.62e+04
Std Dev 1.617e+04
600
400
200
0
−200
−400
−600
−800

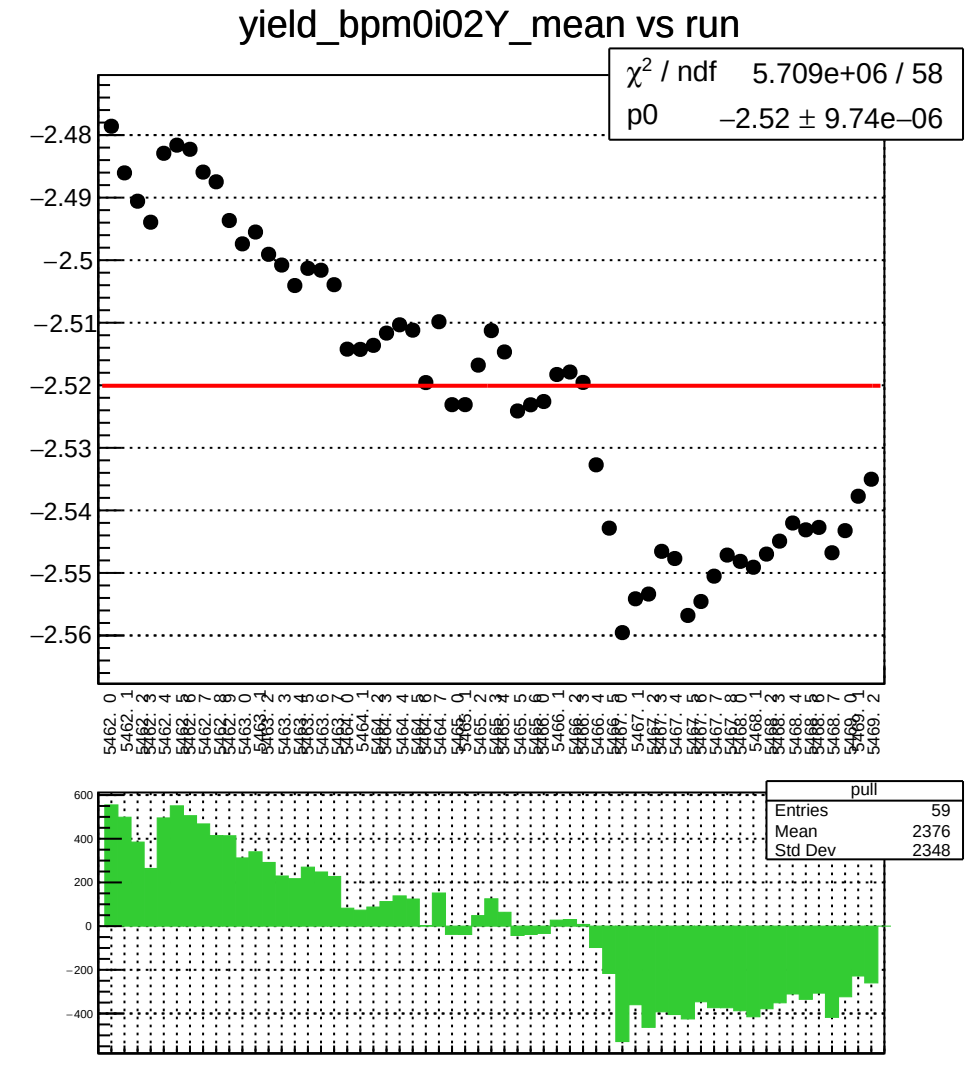

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

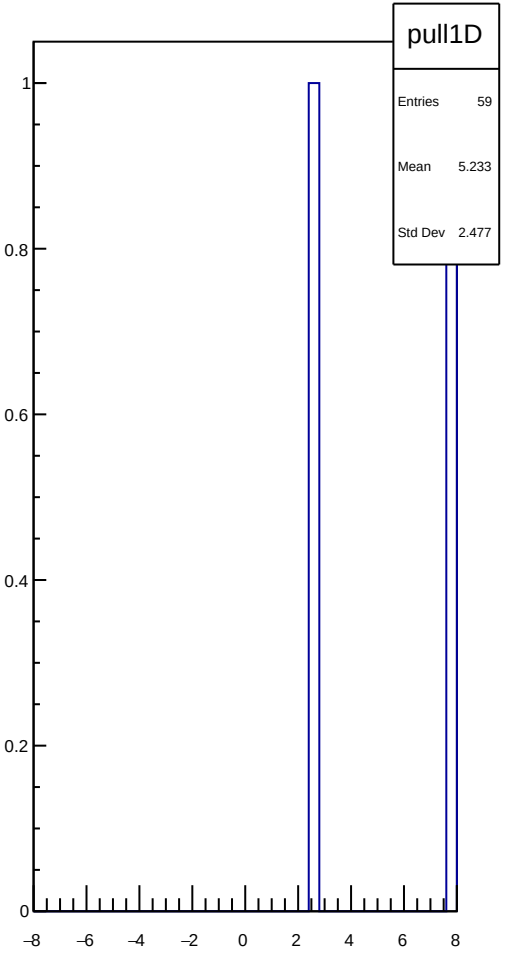

yield_bpm16Y_rms vs run
χ² / ndf 7.701e+04 / 58
p0 0.007187 ± 6.996e−06
0.12
0.1
0.08
0.06
0.04
0.02

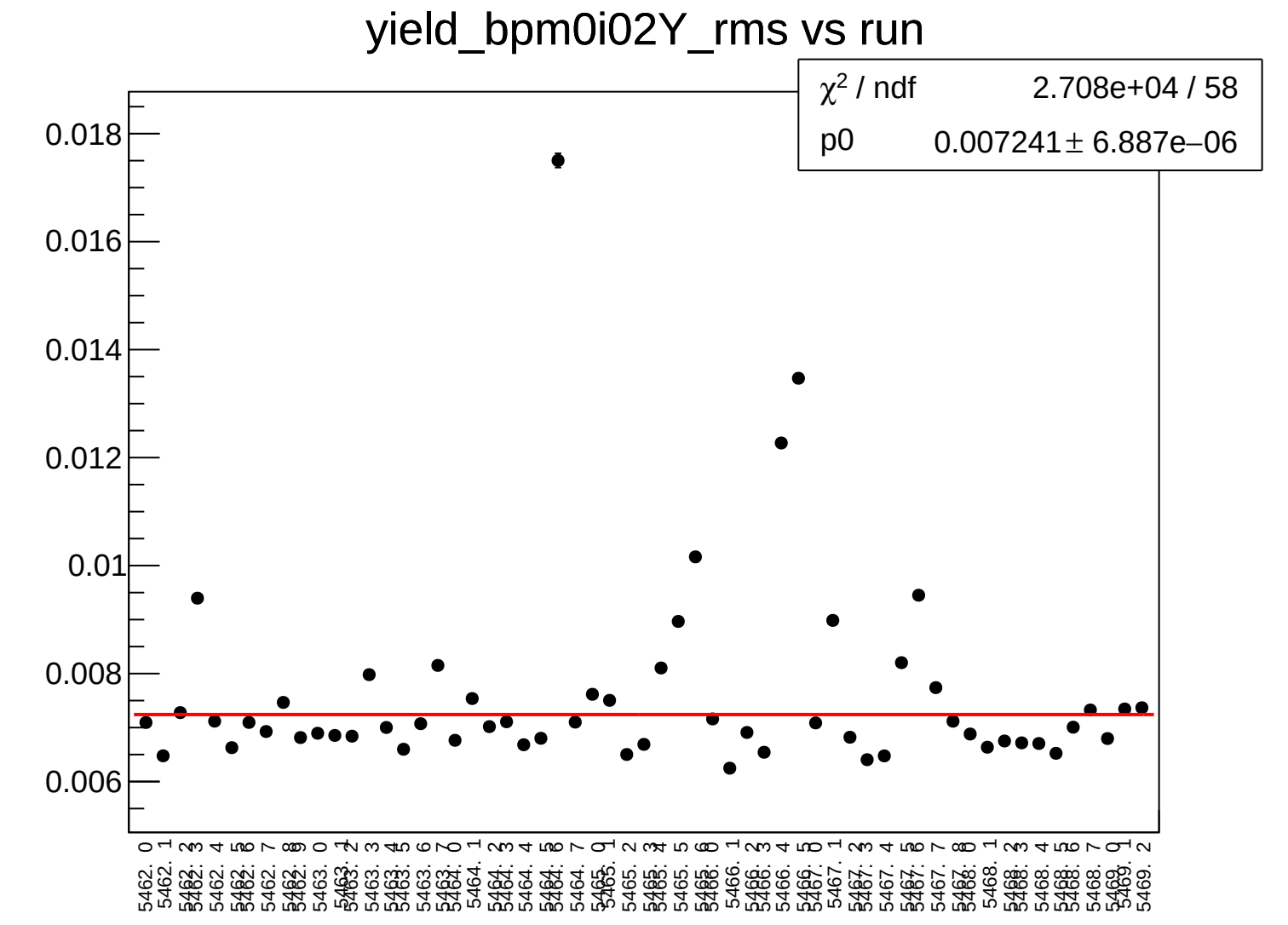

yield_bpm0i02X_mean vs run
χ² / ndf 8.542e+05 / 58
p0 −0.2684 ± 1.056e−05
−0.25
−0.26
−0.27
−0.28
−0.29
pull
Entries 59
Mean 232.2
Std Dev 156.3
200
100
0
−100
−200
−300

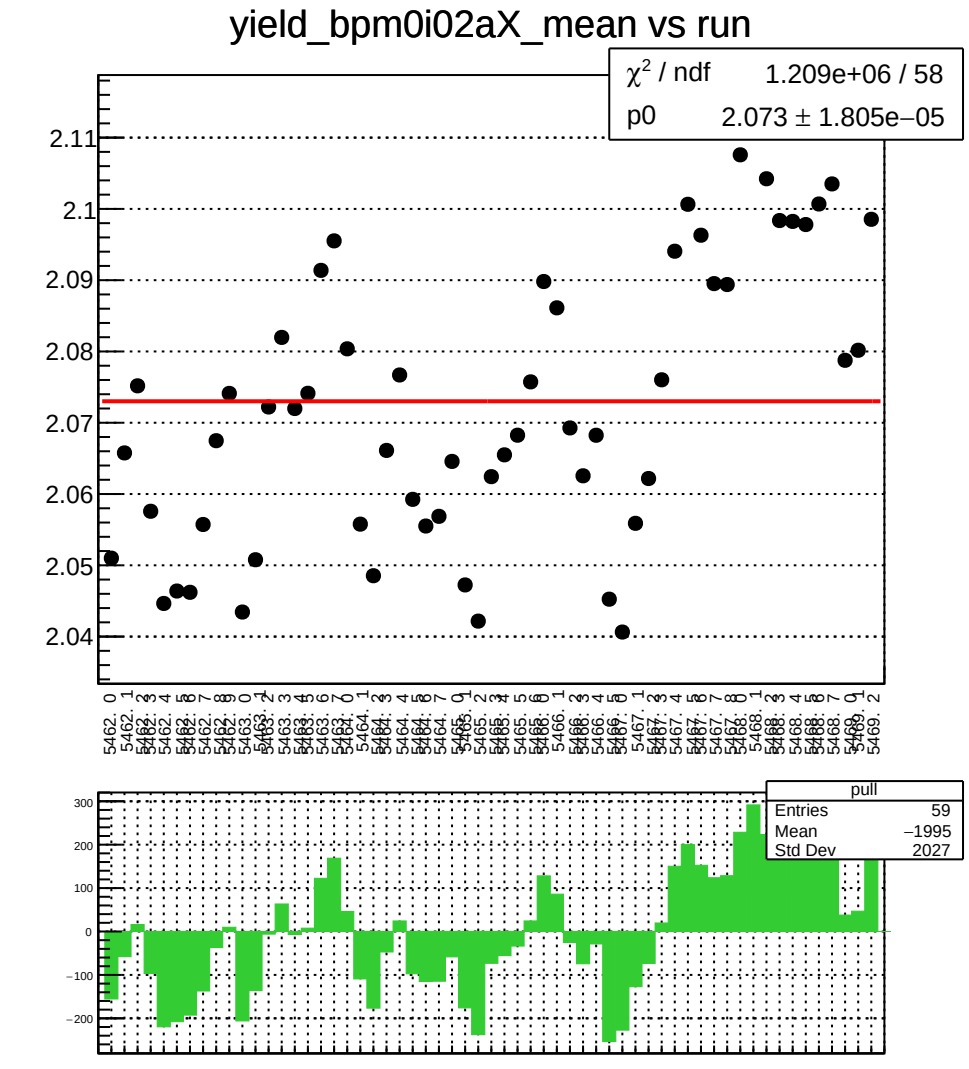

pull1D
Entries 59
Mean 1.027
Std Dev 0.688
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

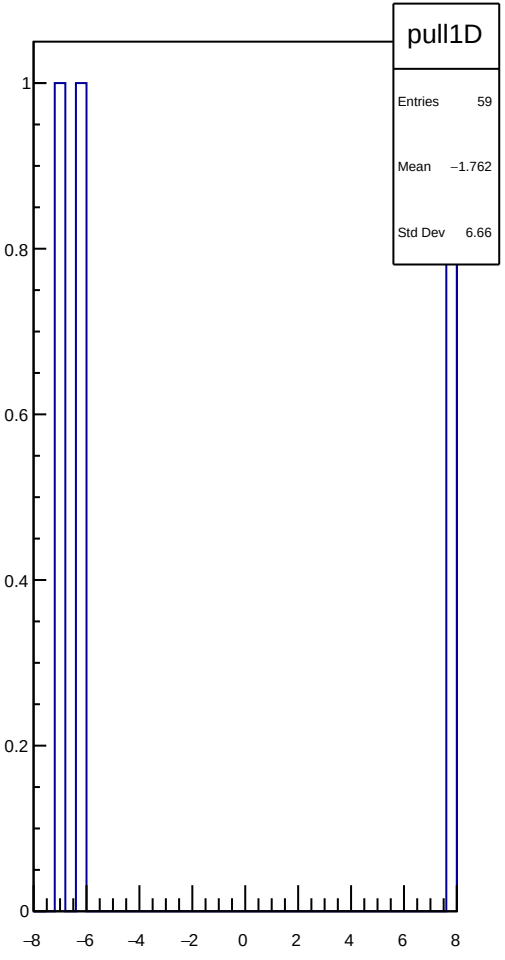

yield_bpm0i02X_rms vs run
χ² / ndf 4845 / 58
p0 0.007929 ± 7.467e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007

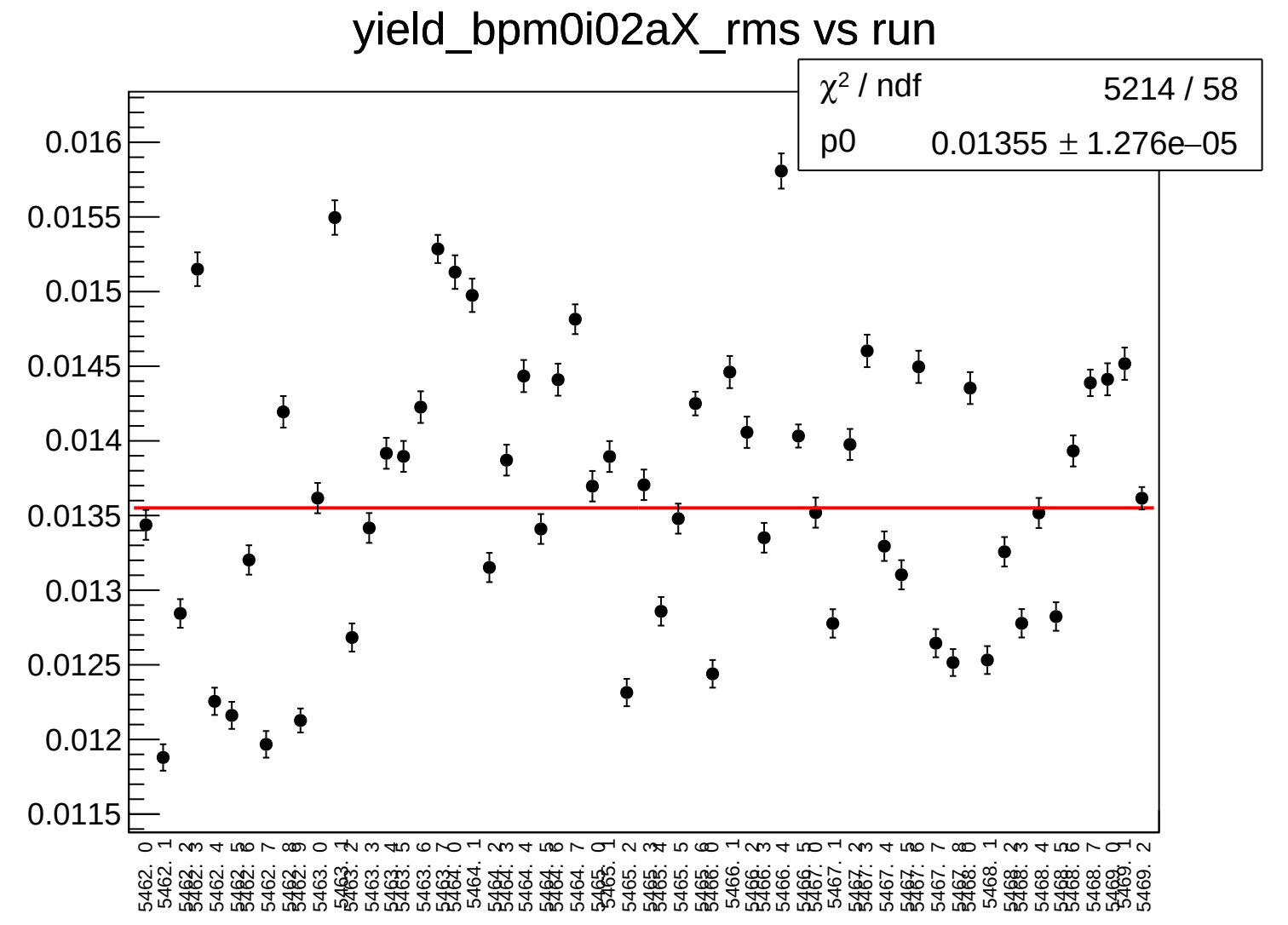

yield_bpm0i02Y_mean vs run
χ² / ndf 5.709e+06 / 58
p0 −2.52 ± 9.74e−06
−2.48
−2.49
−2.5
−2.51
−2.52
−2.53
−2.54
−2.55
−2.56
pull
Entries 59
Mean 2376
Std Dev 2348
600
400
200
0
−200
−400

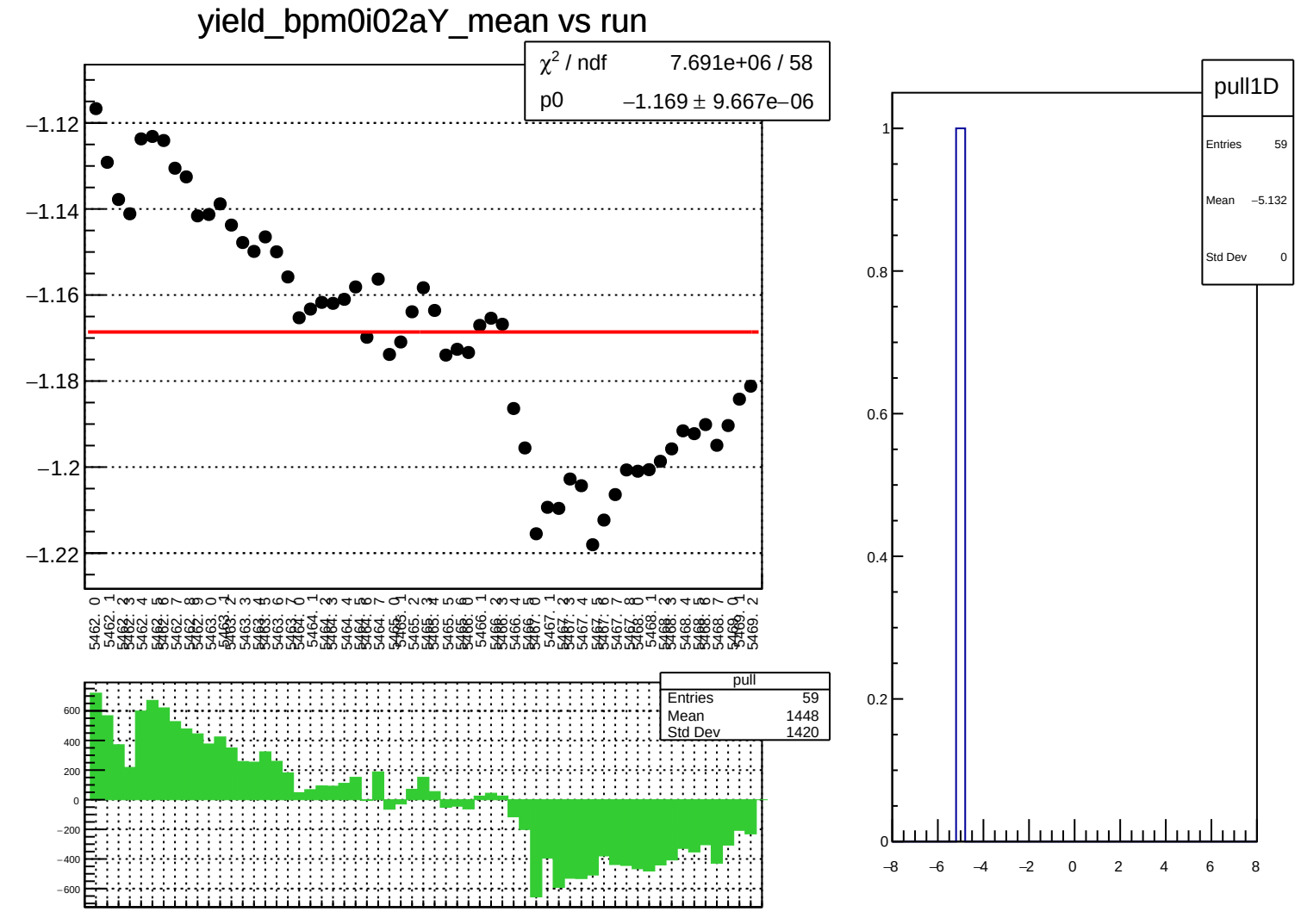

pull1D
Entries 59
Mean 5.233
Std Dev 2.477
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

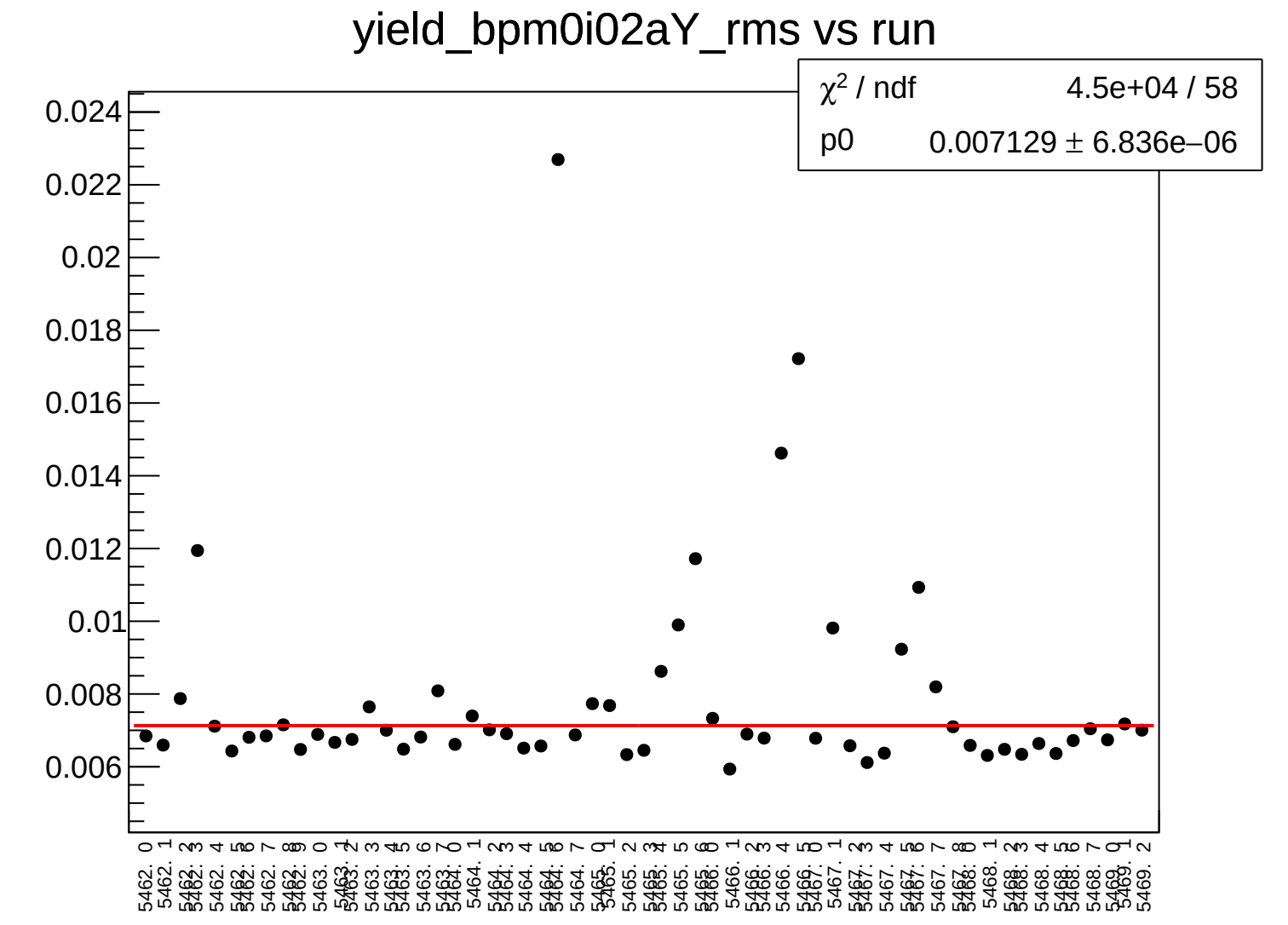

yield_bpm0i02Y_rms vs run
χ² / ndf 2.708e+04 / 58
p0 0.007241 ± 6.887e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

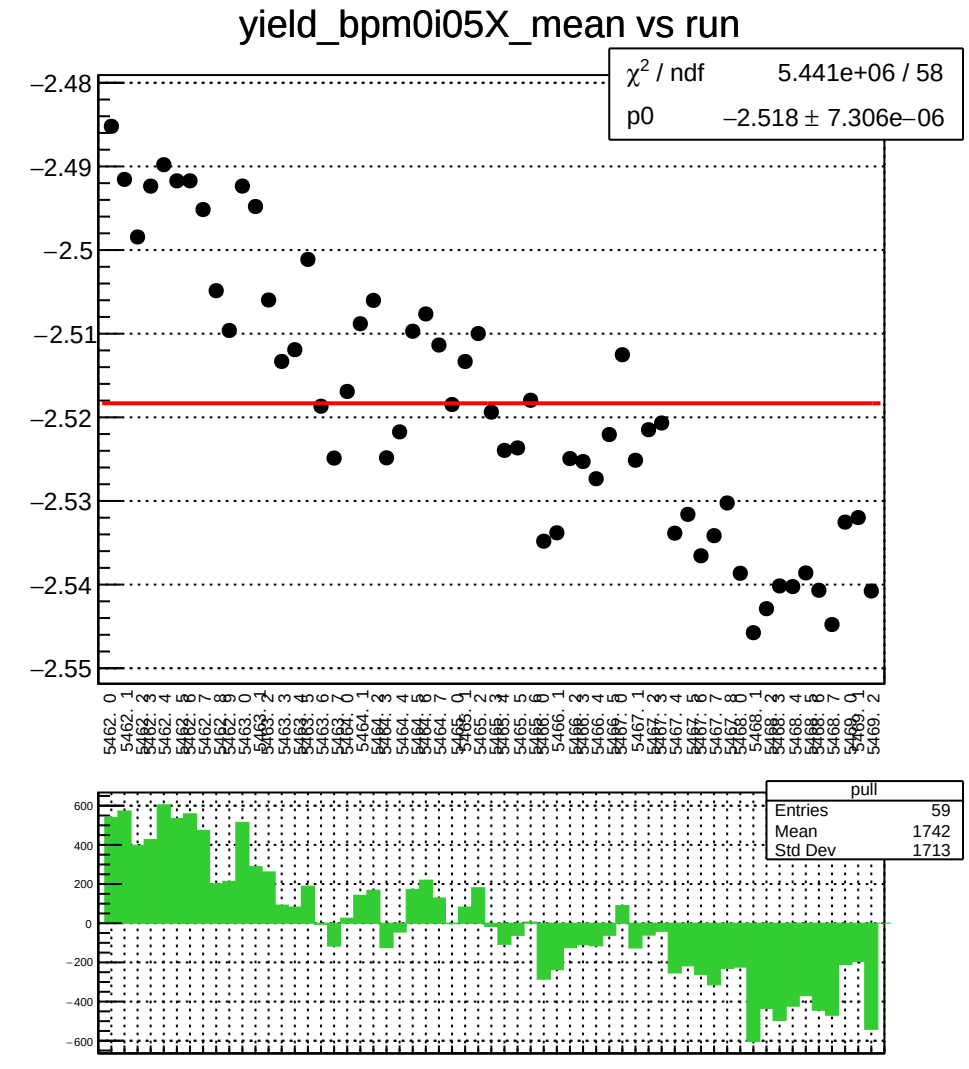

yield_bpm0i02aX_mean vs run
χ² / ndf 1.209e+06 / 58
p0 2.073 ± 1.805e−05
pull
Entries 59
Mean −1995
Std Dev 2027

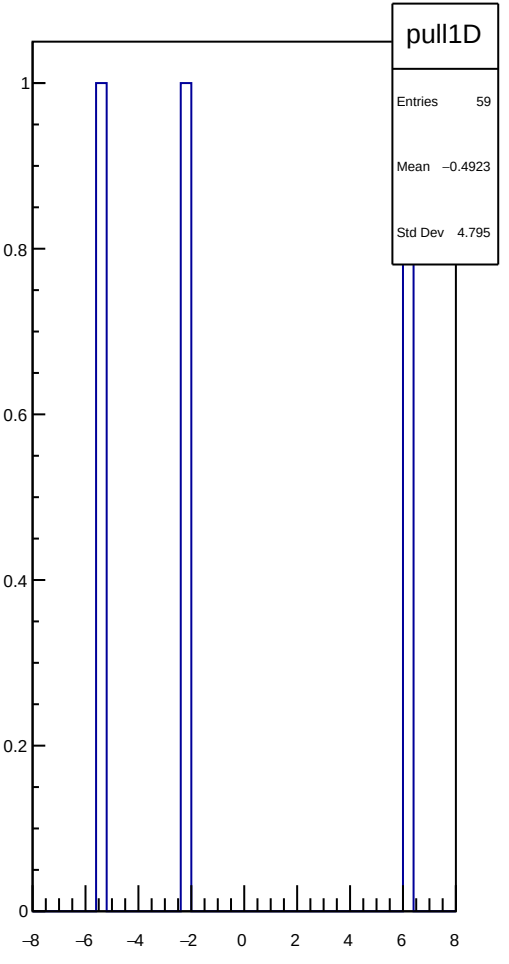

pull1D
Entries 59
Mean −1.762
Std Dev 6.66

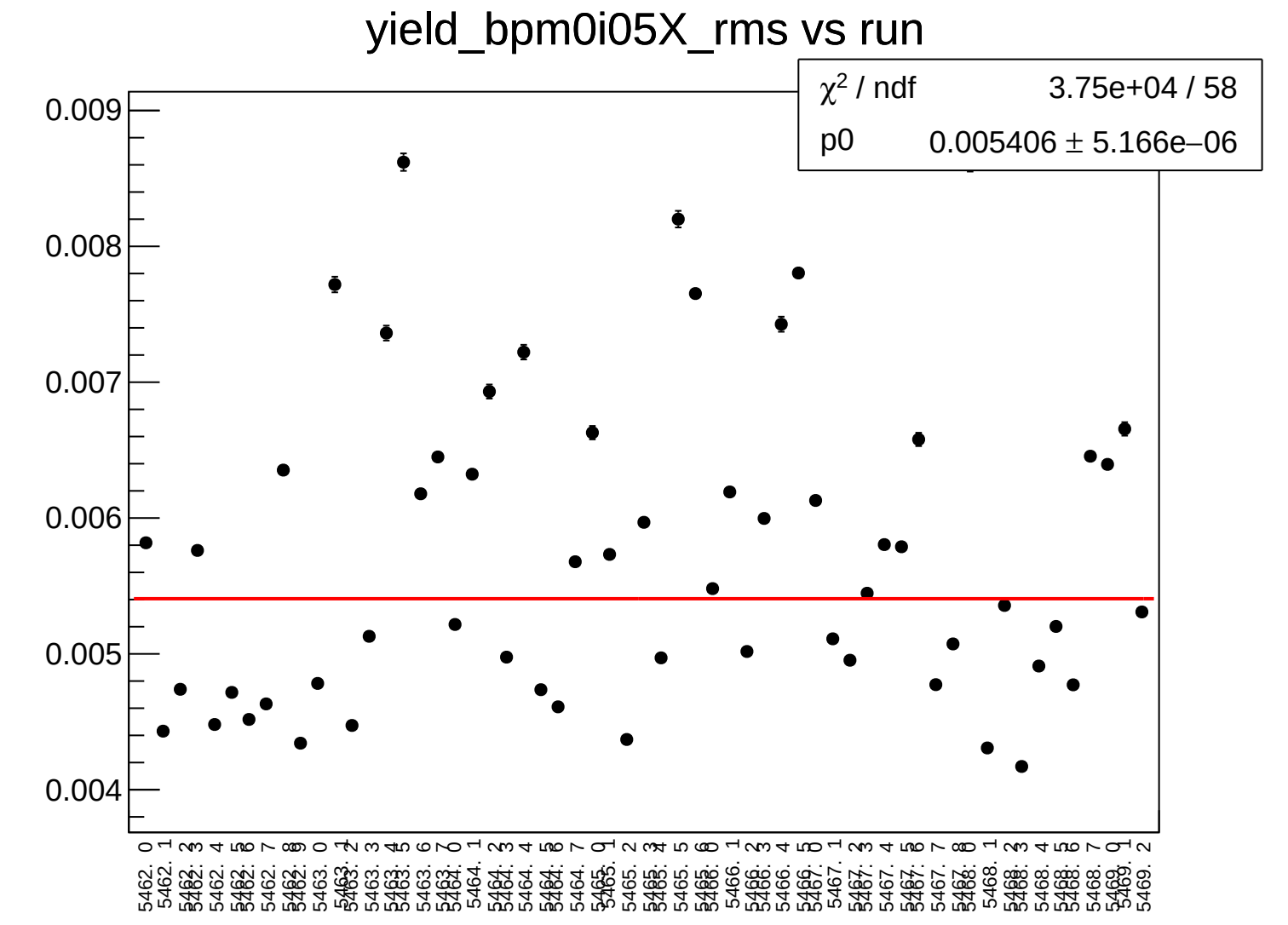

yield_bpm0i02aX_rms vs run
χ² / ndf 5214 / 58
p0 0.01355 ± 1.276e–05
0.016
0.0155
0.015
0.0145
0.014
0.0135
0.013
0.0125
0.012
0.0115

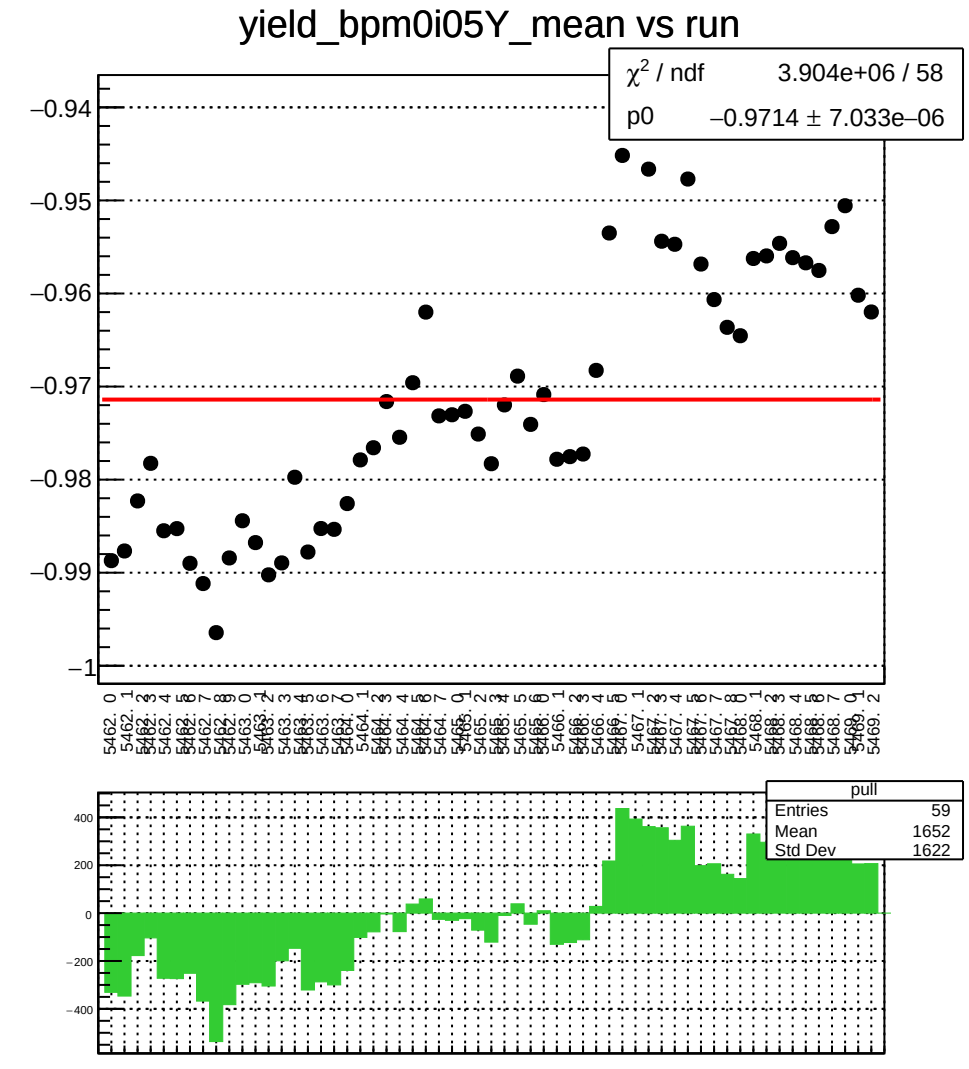

yield_bpm0i02aY_mean vs run
χ² / ndf 7.691e+06 / 58
p0 −1.169 ± 9.667e−06
−1.12
−1.14
−1.16
−1.18
−1.2
−1.22
pull
Entries 59
Mean 1448
Std Dev 1420
600
400
200
0
−200
−400
−600
pull1D
Entries 59
Mean −5.132
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

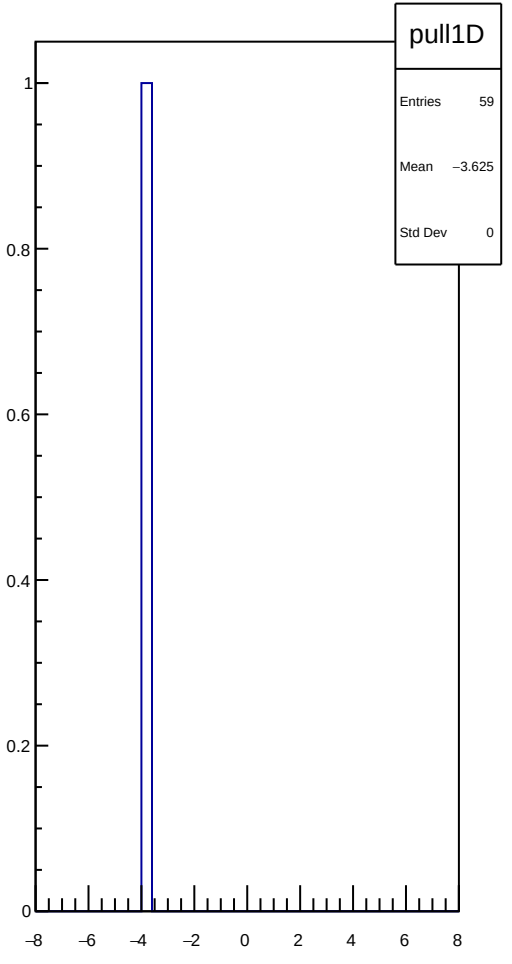

yield_bpm0i02aY_rms vs run
χ² / ndf 4.5e+04 / 58
p0 0.007129 ± 6.836e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

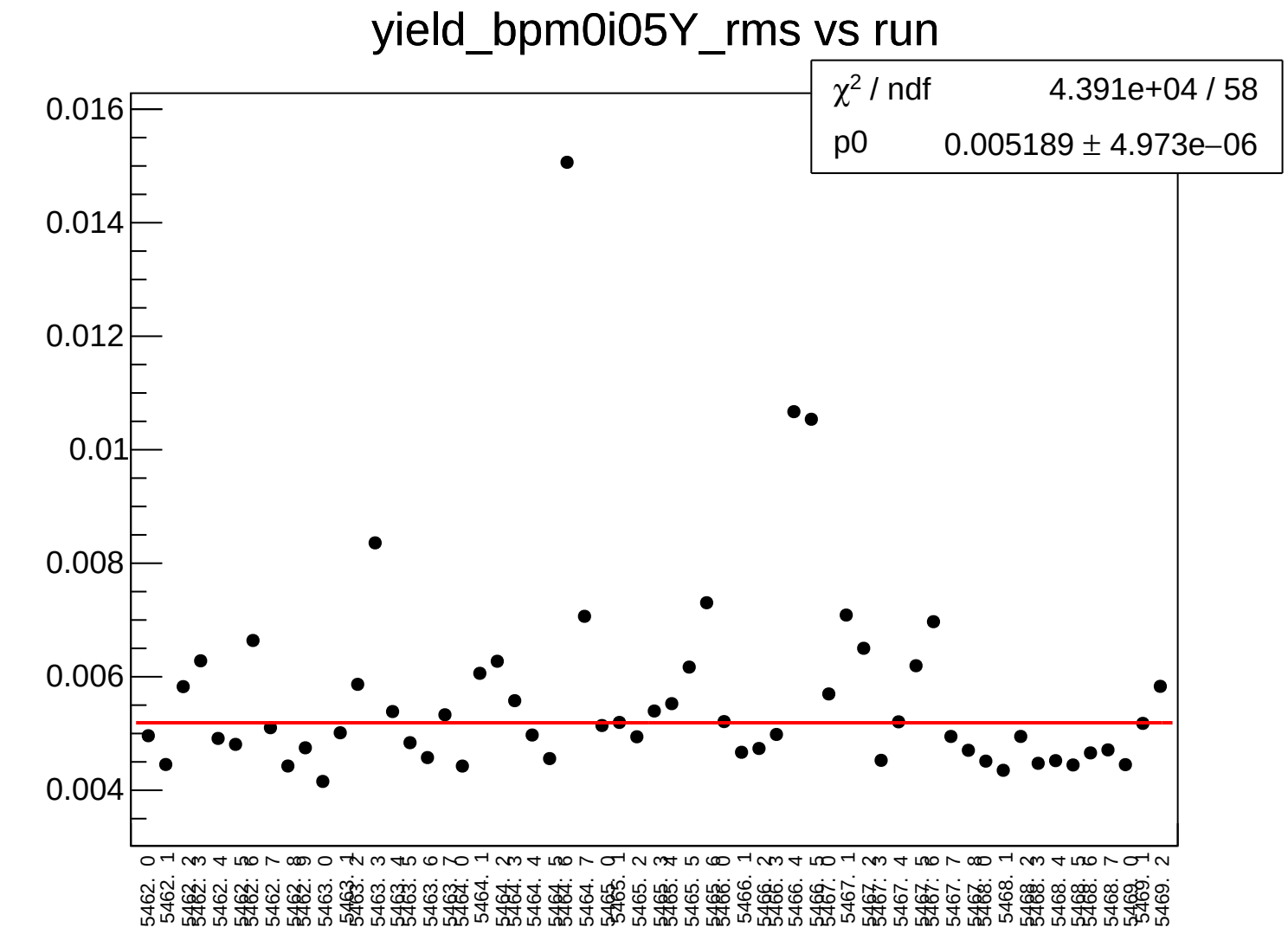

yield_bpm0i05X_mean vs run
χ² / ndf 5.441e+06 / 58
p0 −2.518 ± 7.306e−06
−2.48
−2.49
−2.5
−2.51
−2.52
−2.53
−2.54
−2.55
pull
Entries 59
Mean 1742
Std Dev 1713
600
400
200
0
−200
−400
−600

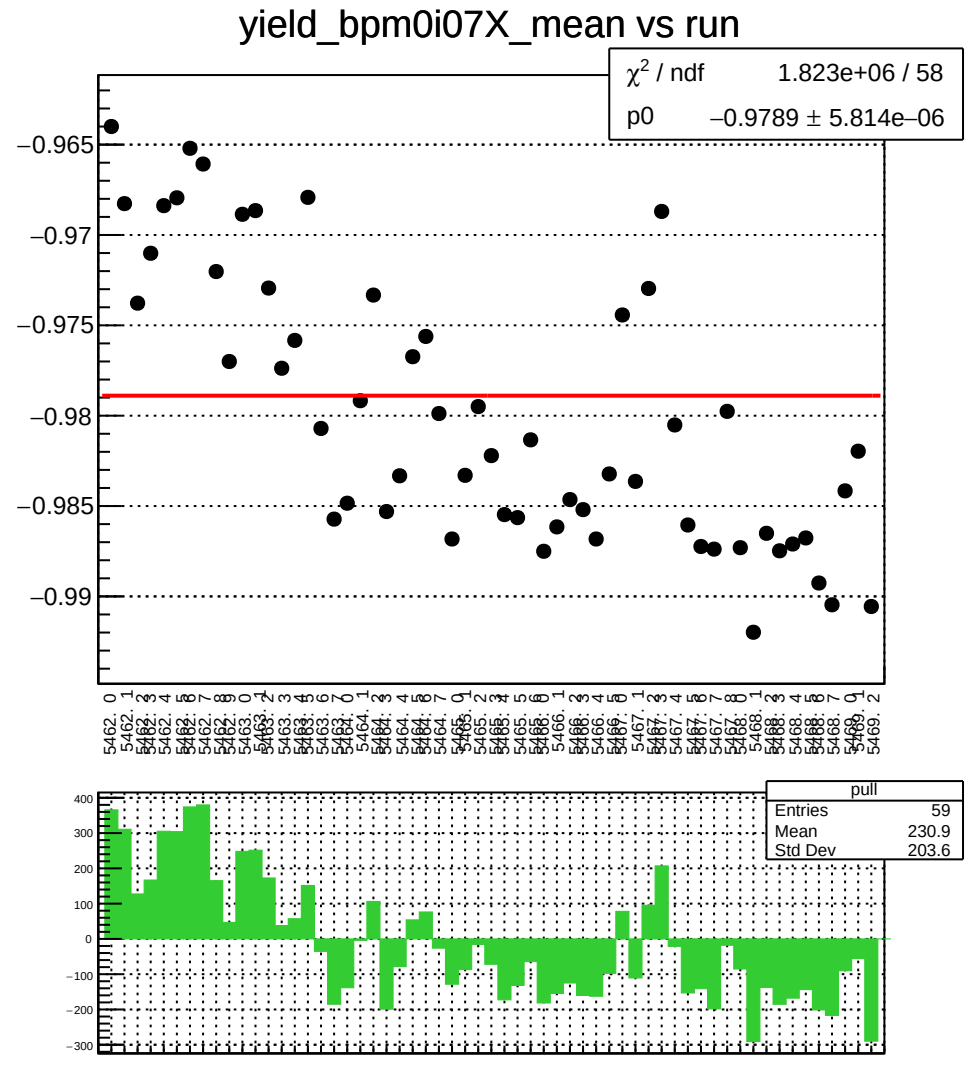

pull1D
Entries 59
Mean −0.4923
Std Dev 4.795
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

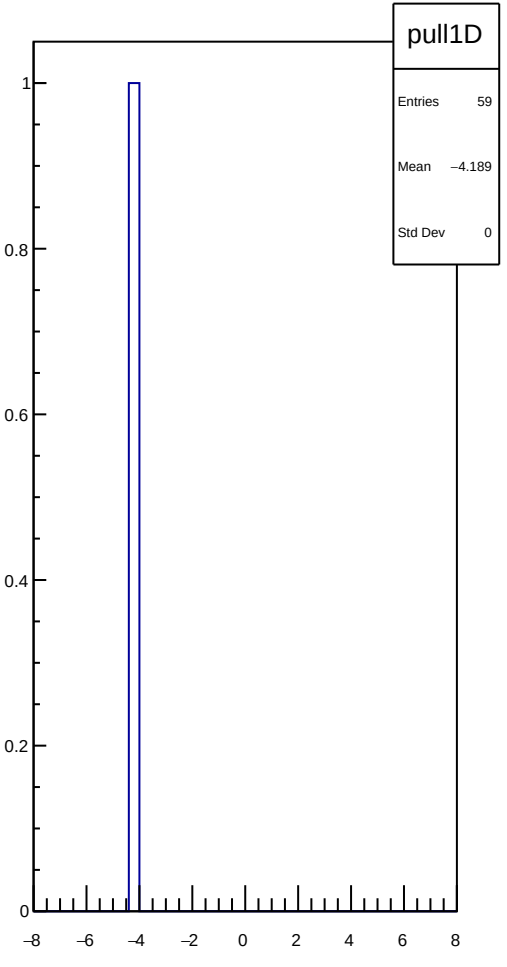

yield_bpm0i05X_rms vs run
χ² / ndf 3.75e+04 / 58
p0 0.005406 ± 5.166e−06
0.009
0.008
0.007
0.006
0.005
0.004

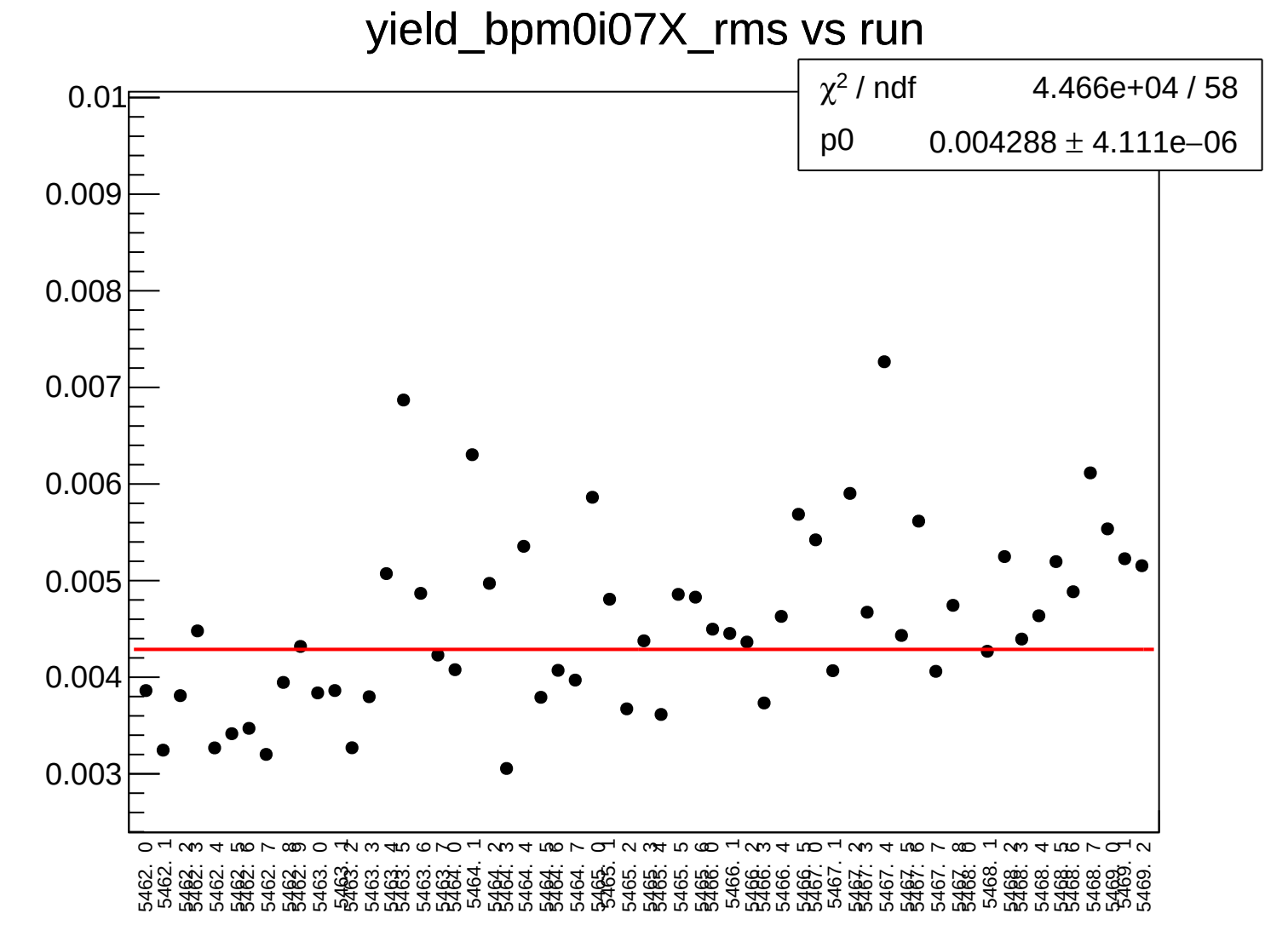

yield_bpm0i05Y_mean vs run
χ² / ndf 3.904e+06 / 58
p0 −0.9714 ± 7.033e−06
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
−1
pull
Entries 59
Mean 1652
Std Dev 1622
400
200
0
−200
−400

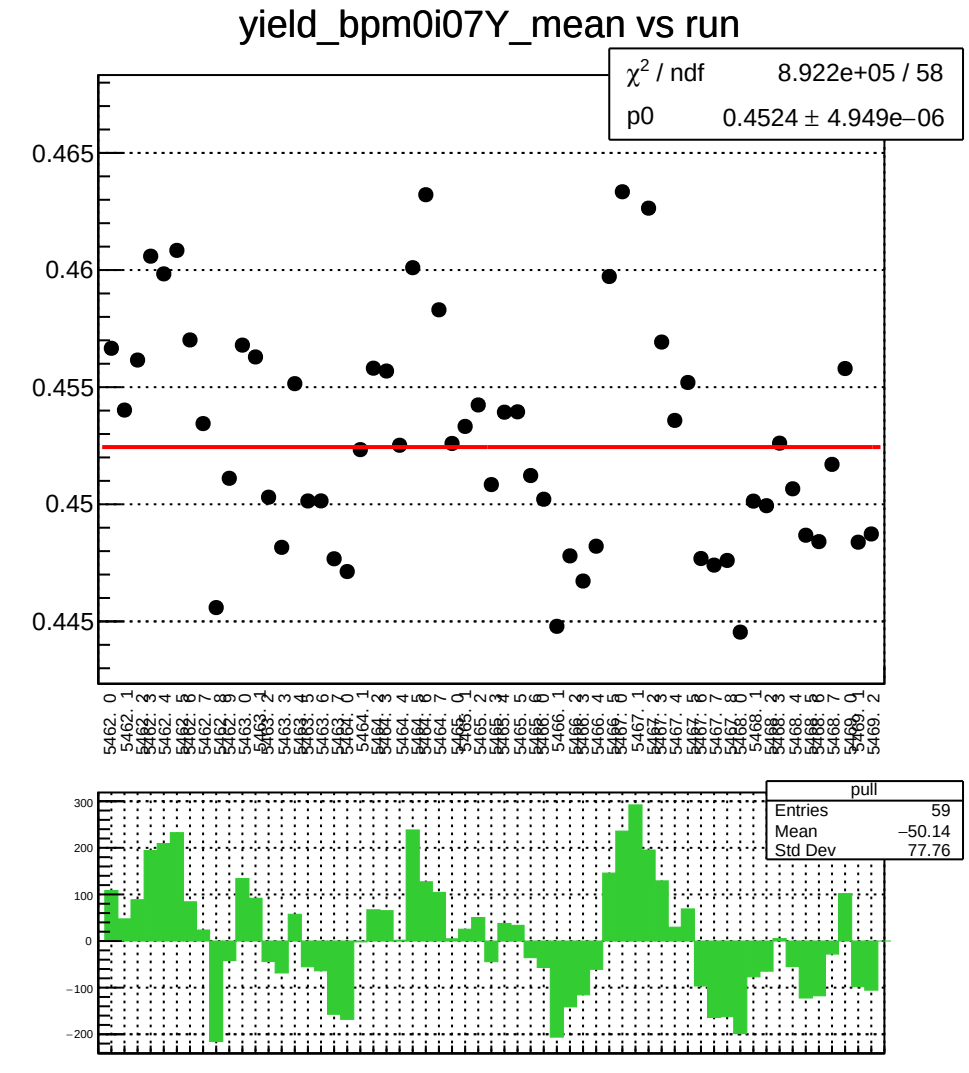

pull1D
Entries 59
Mean −3.625
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

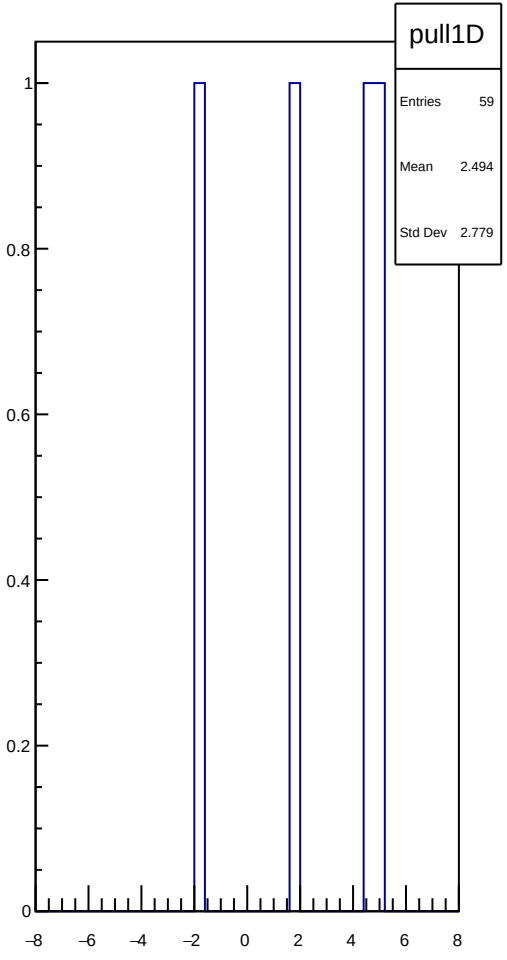

yield_bpm0i05Y_rms vs run
χ² / ndf 4.391e+04 / 58
p0 0.005189 ± 4.973e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

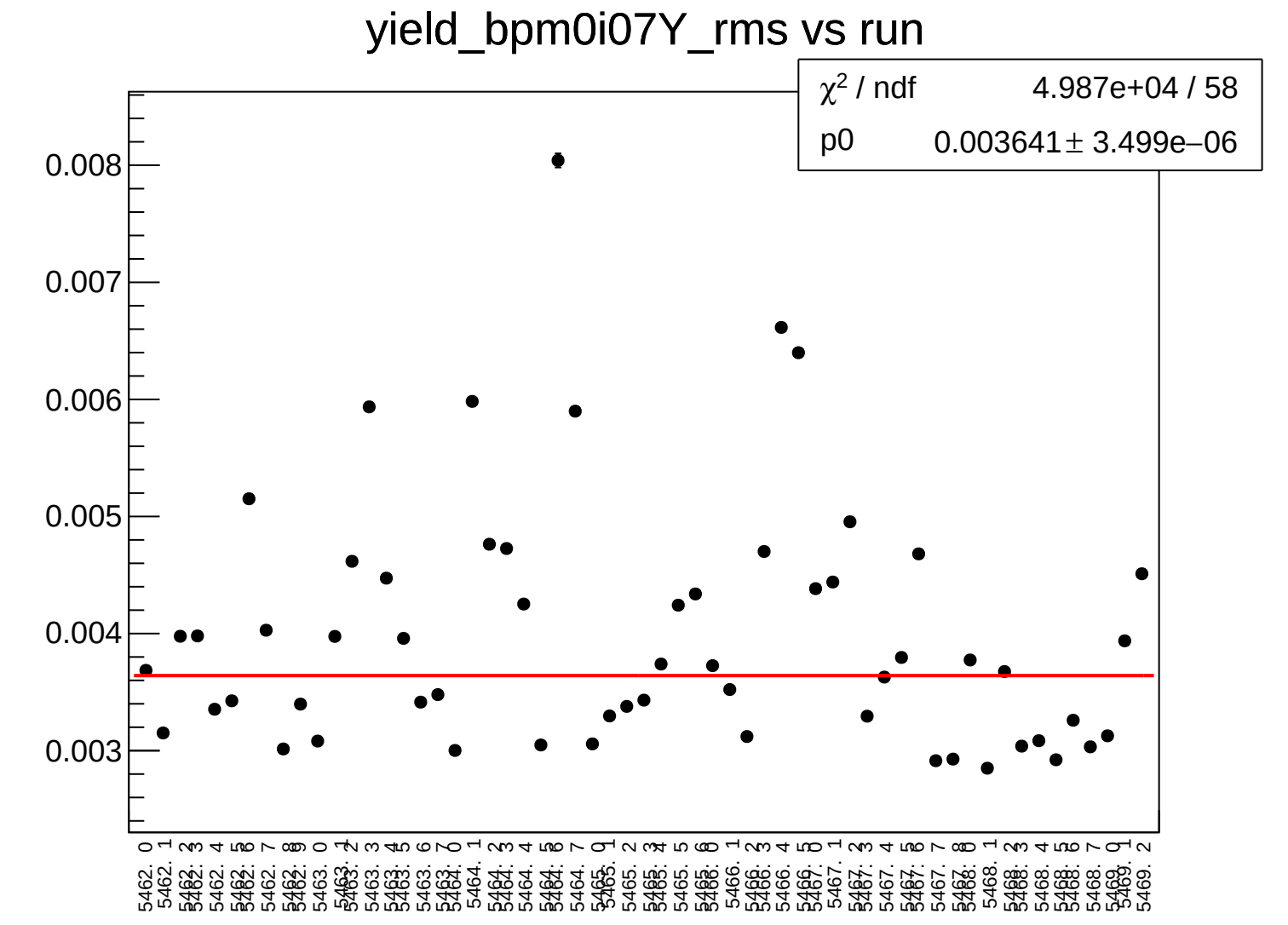

yield_bpm0i07X_mean vs run
χ² / ndf 1.823e+06 / 58
p0 −0.9789 ± 5.814e−06
−0.965
−0.97
−0.975
−0.98
−0.985
−0.99
pull
Entries 59
Mean 230.9
Std Dev 203.6
400
300
200
100
0
−100
−200
−300

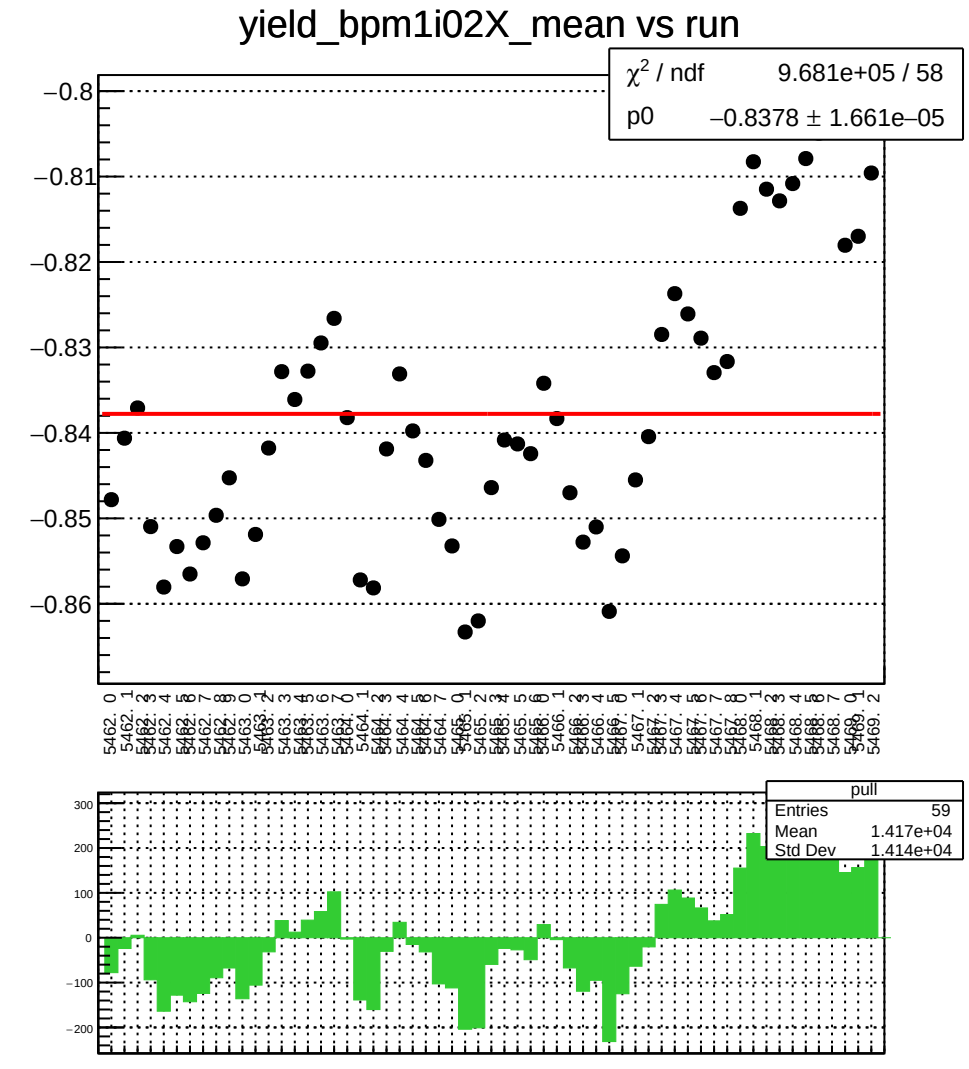

pull1D
Entries 59
Mean −4.189
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

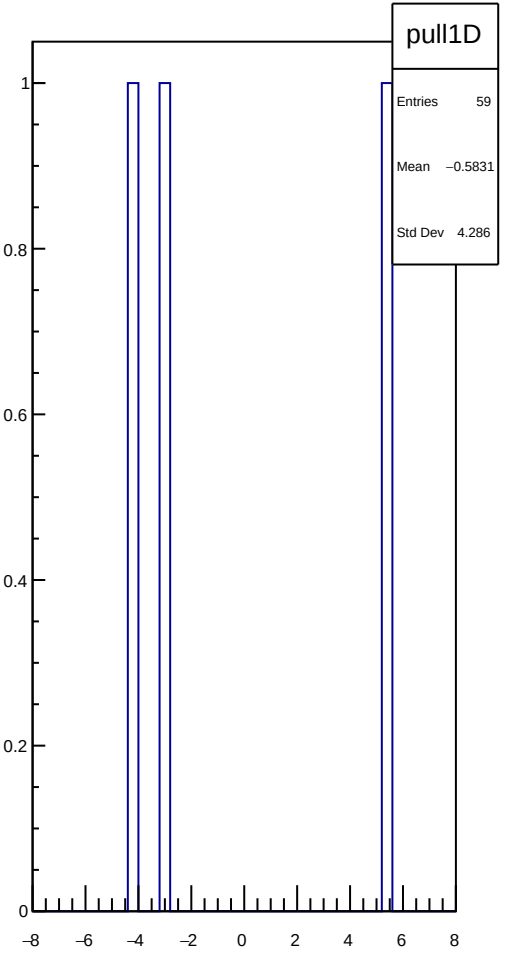

yield_bpm0i07X_rms vs run
χ² / ndf 4.466e+04 / 58
p0 0.004288 ± 4.111e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

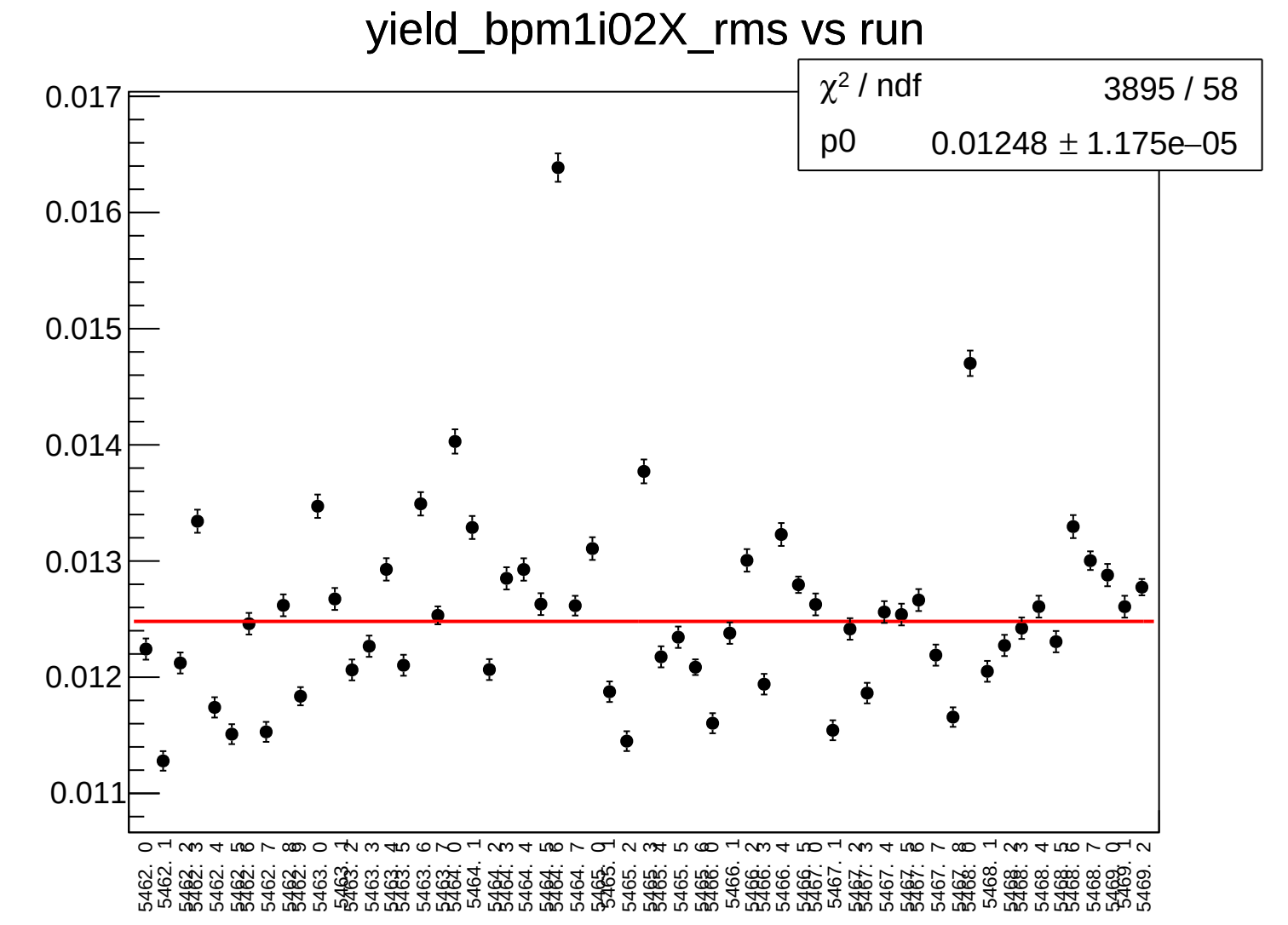

yield_bpm0i07Y_mean vs run
χ² / ndf 8.922e+05 / 58
p0 0.4524 ± 4.949e−06
0.465
0.46
0.455
0.45
0.445
pull
Entries 59
Mean −50.14
Std Dev 77.76
300
200
100
0
−100
−200

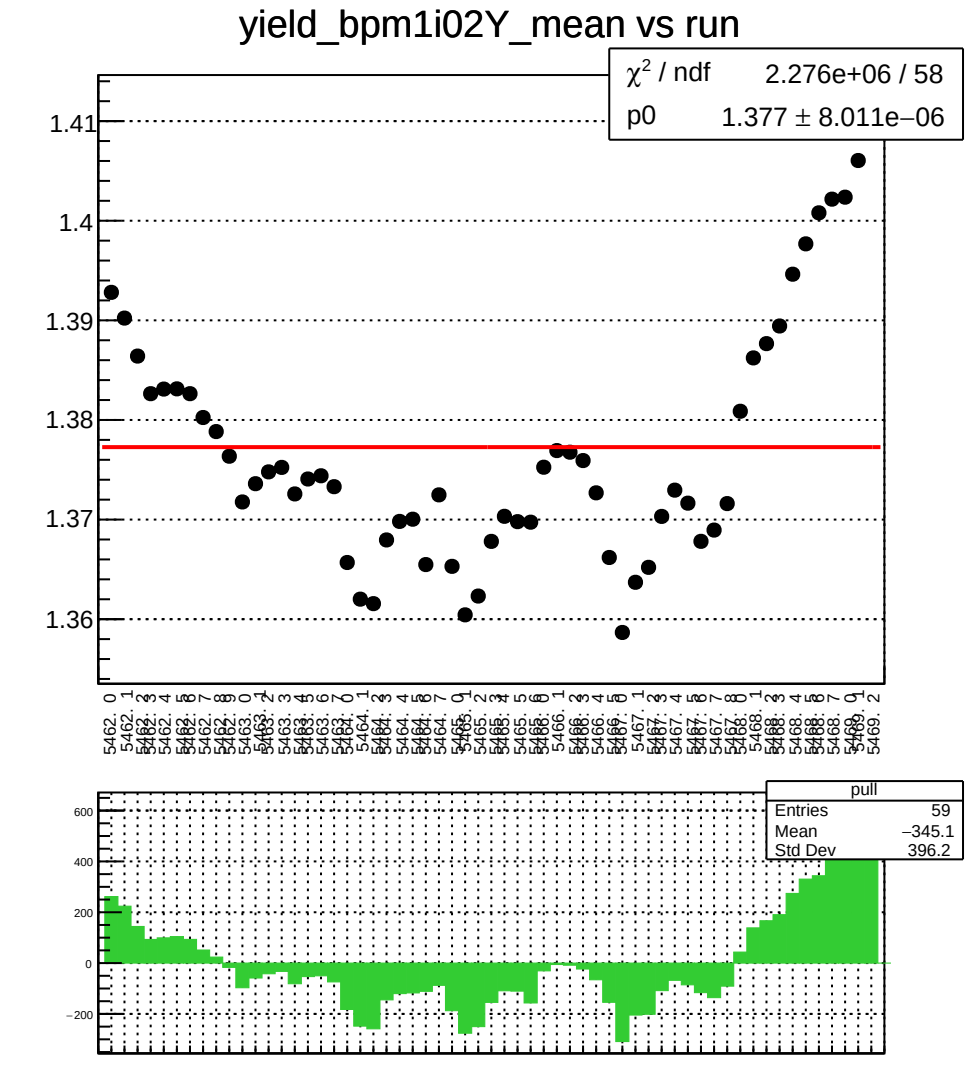

pull1D
Entries 59
Mean 2.494
Std Dev 2.779
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

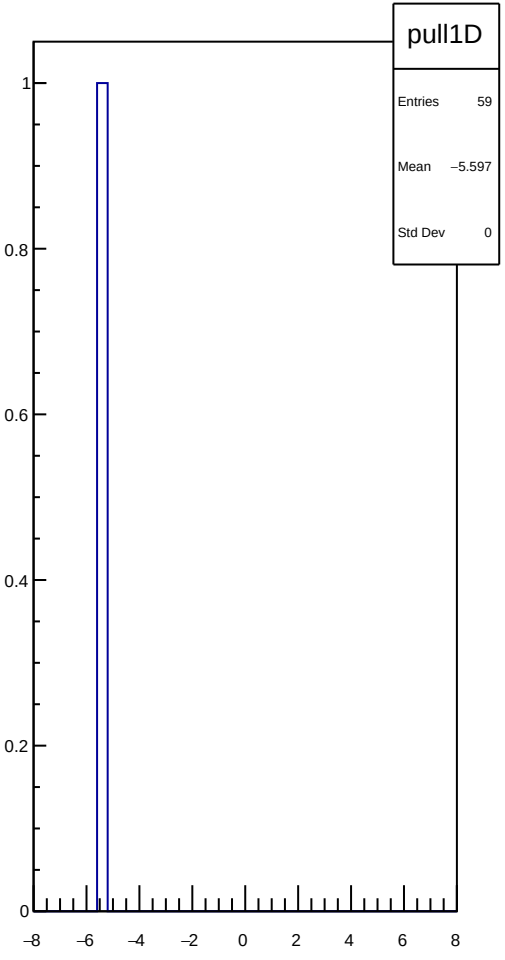

yield_bpm0i07Y_rms vs run
χ² / ndf 4.987e+04 / 58
p0 0.003641 ± 3.499e−06
0.008
0.007
0.006
0.005
0.004
0.003

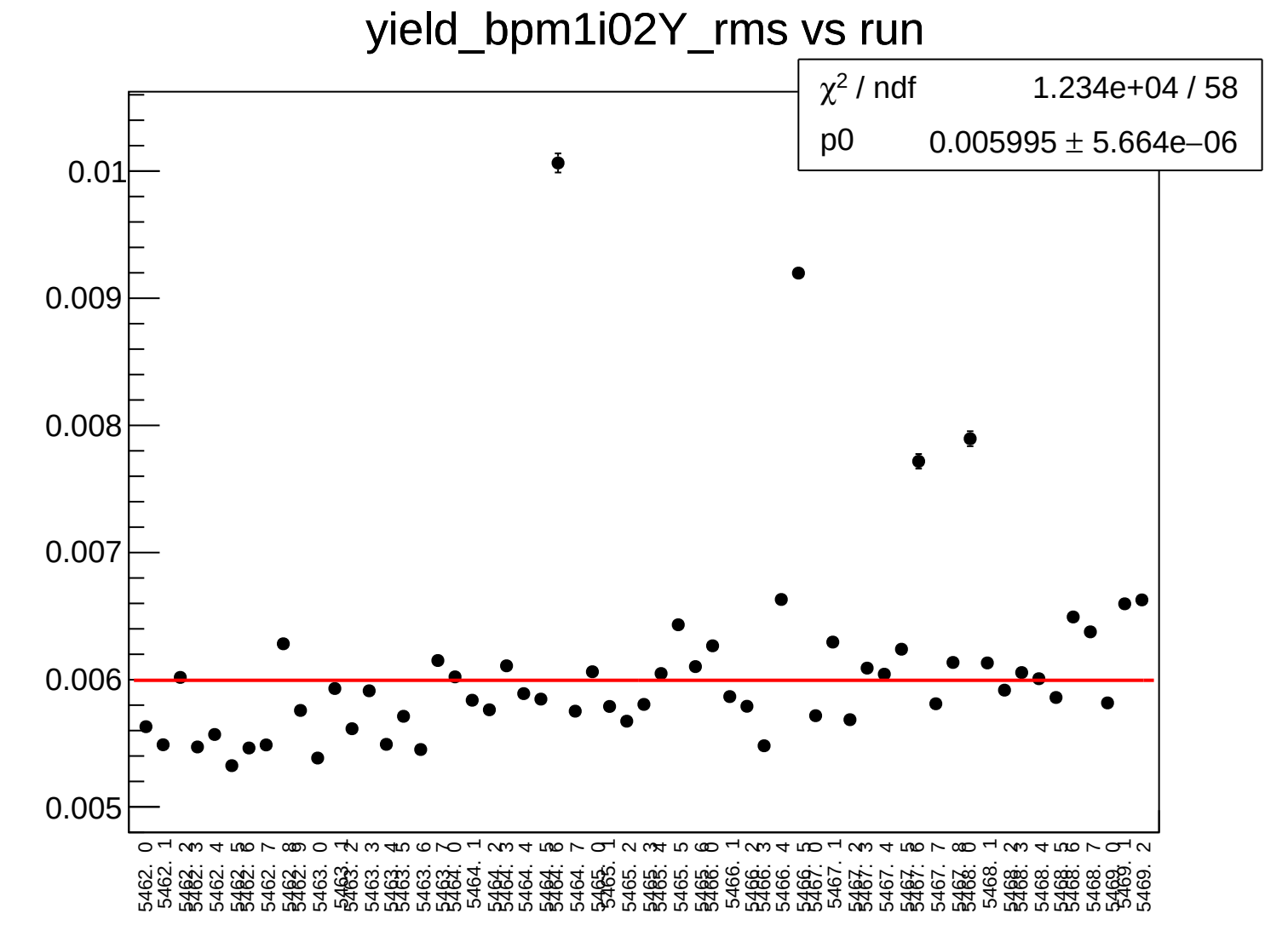

yield_bpm1i02X_mean vs run
χ² / ndf 9.681e+05 / 58
p0 −0.8378 ± 1.661e−05
pull
Entries 59
Mean 1.417e+04
Std Dev 1.414e+04

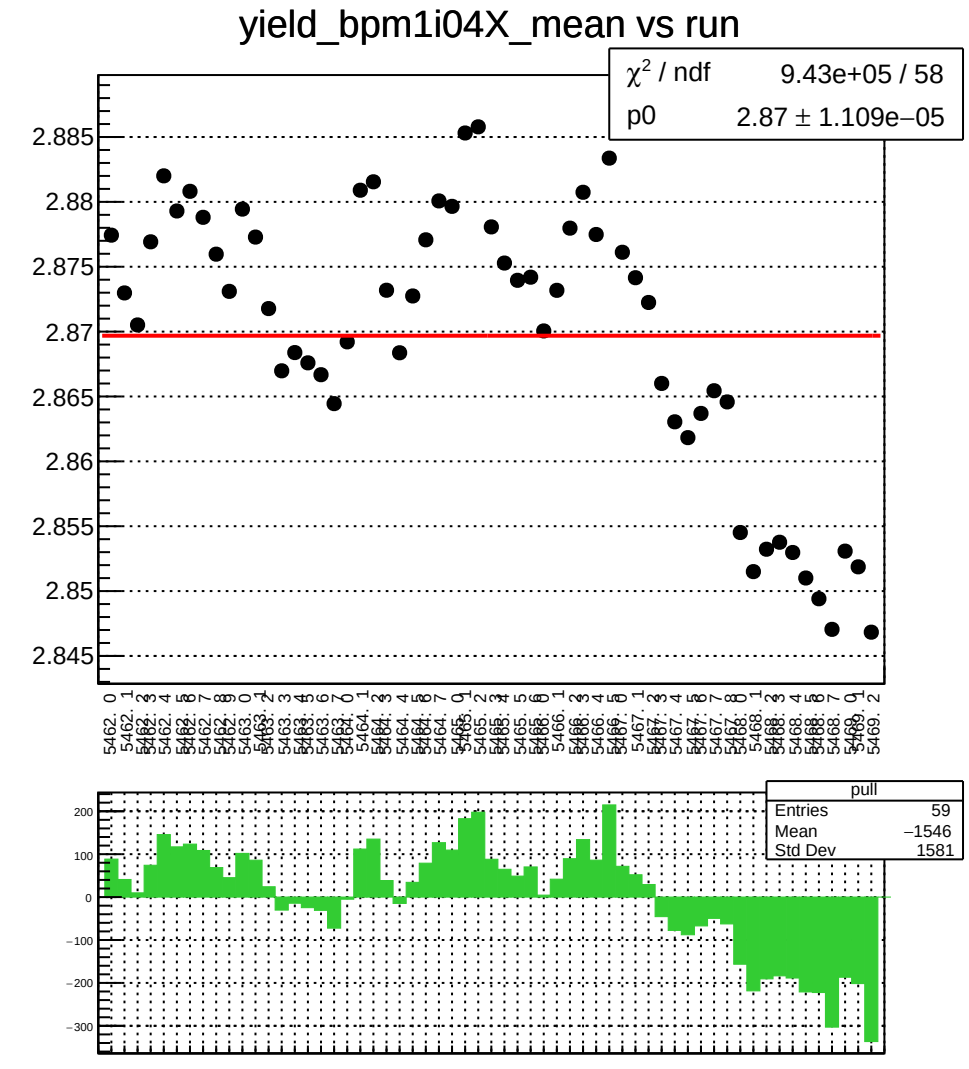

pull1D
Entries 59
Mean −0.5831
Std Dev 4.286

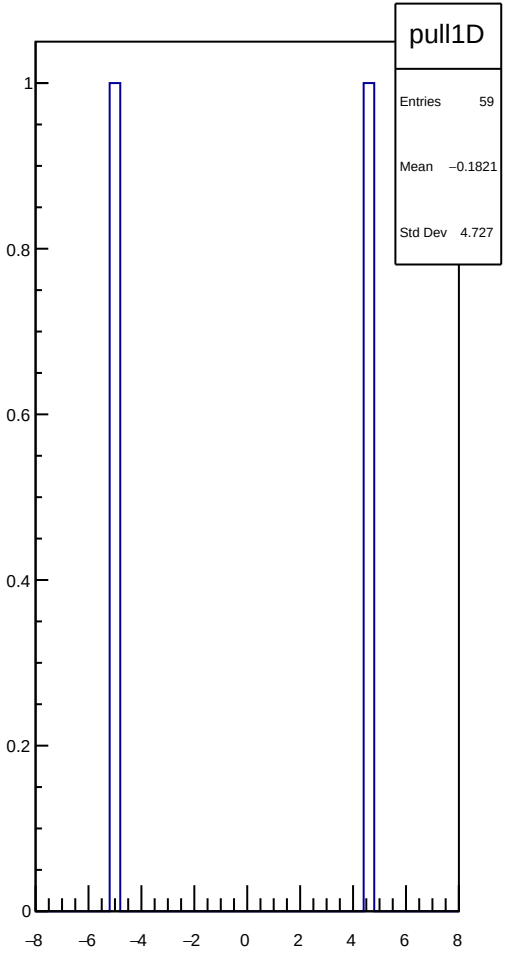

yield_bpm1i02X_rms vs run
χ² / ndf 3895 / 58
p0 0.01248 ± 1.175e–05
0.017
0.016
0.015
0.014
0.013
0.012
0.011

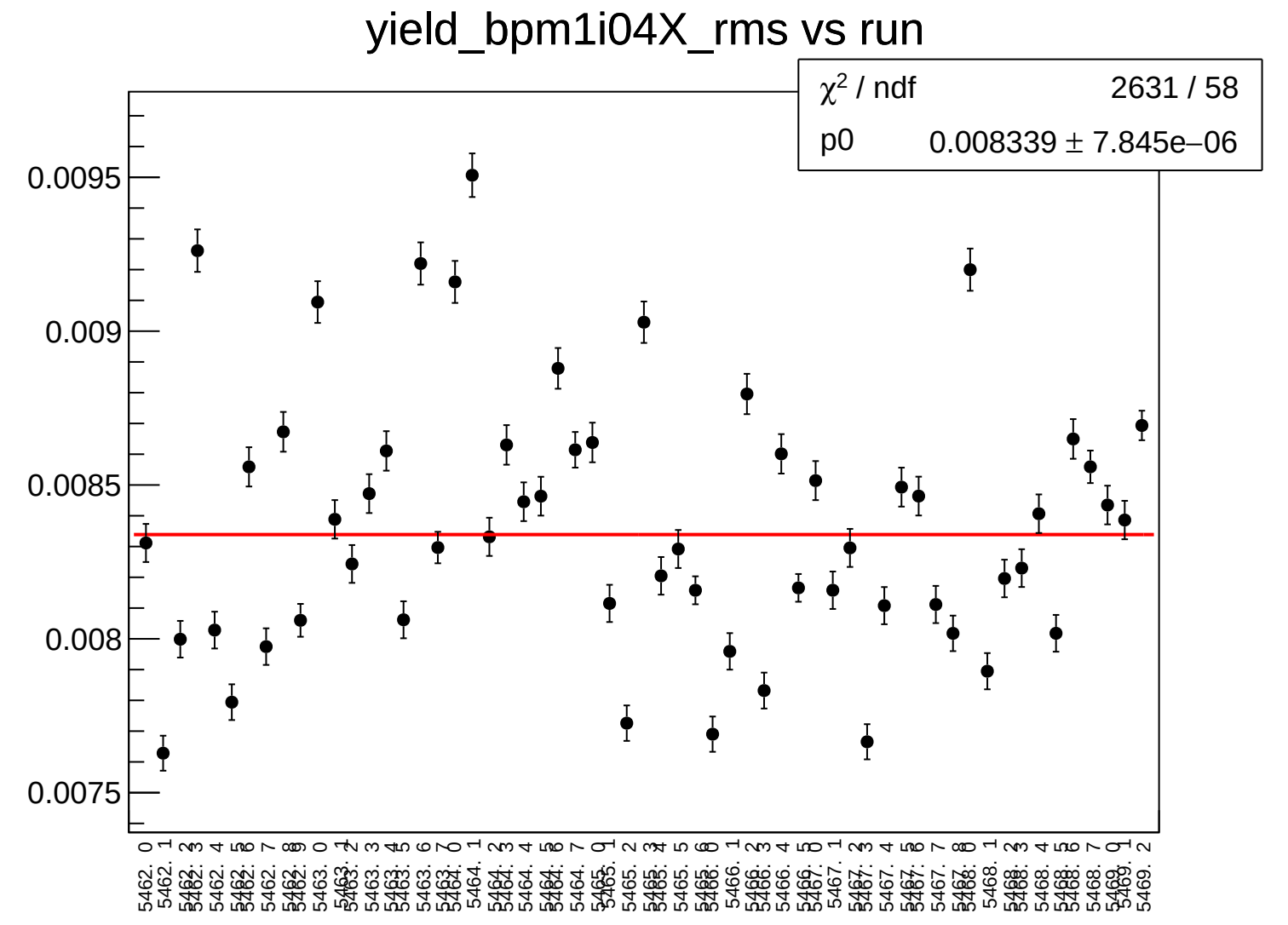

yield_bpm1i02Y_mean vs run
χ² / ndf 2.276e+06 / 58
p0 1.377 ± 8.011e−06
1.41
1.4
1.39
1.38
1.37
1.36
pull
Entries 59
Mean −345.1
Std Dev 396.2
600
400
200
0
−200

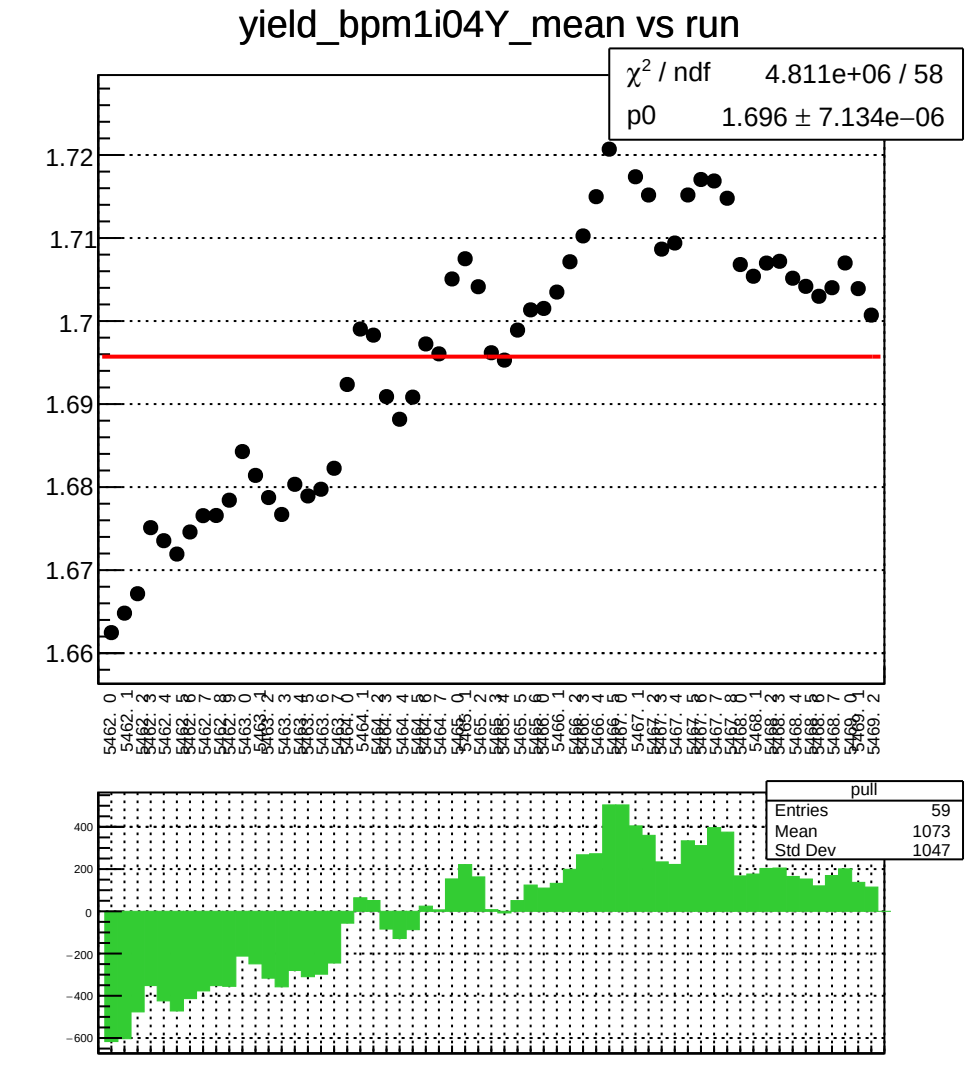

pull1D
Entries 59
Mean −5.597
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

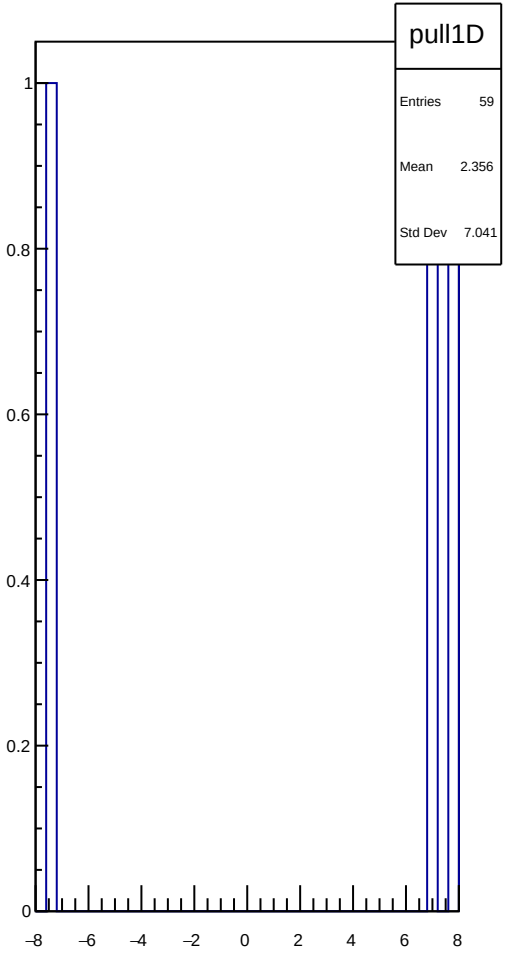

yield_bpm1i02Y_rms vs run
χ² / ndf 1.234e+04 / 58
p0 0.005995 ± 5.664e−06
0.01
0.009
0.008
0.007
0.006
0.005

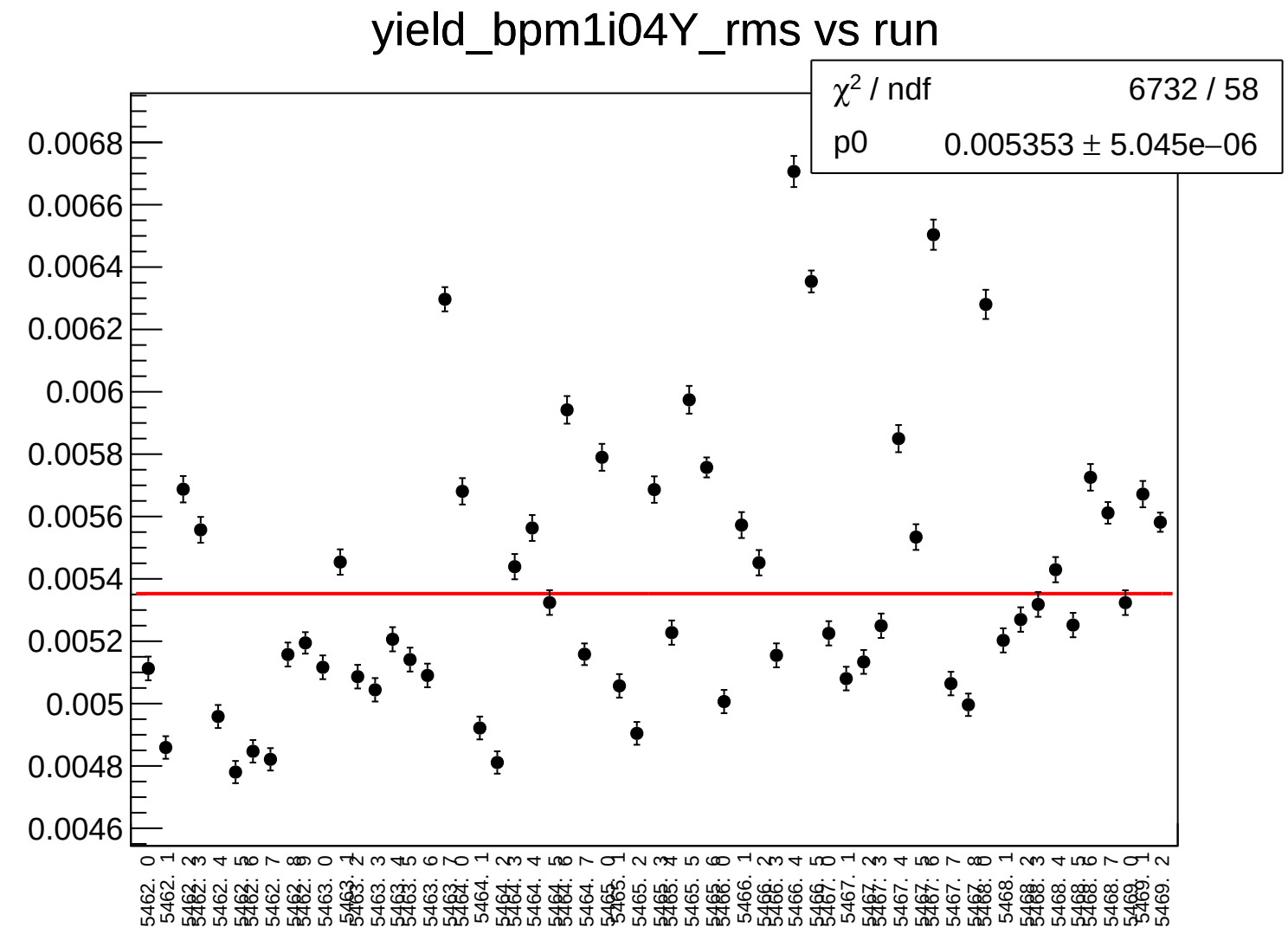

yield_bpm1i04X_mean vs run
χ² / ndf 9.43e+05 / 58
p0 2.87 ± 1.109e−05
2.885
2.88
2.875
2.87
2.865
2.86
2.855
2.85
2.845
pull
Entries 59
Mean −1546
Std Dev 1581
200
100
0
−100
−200
−300

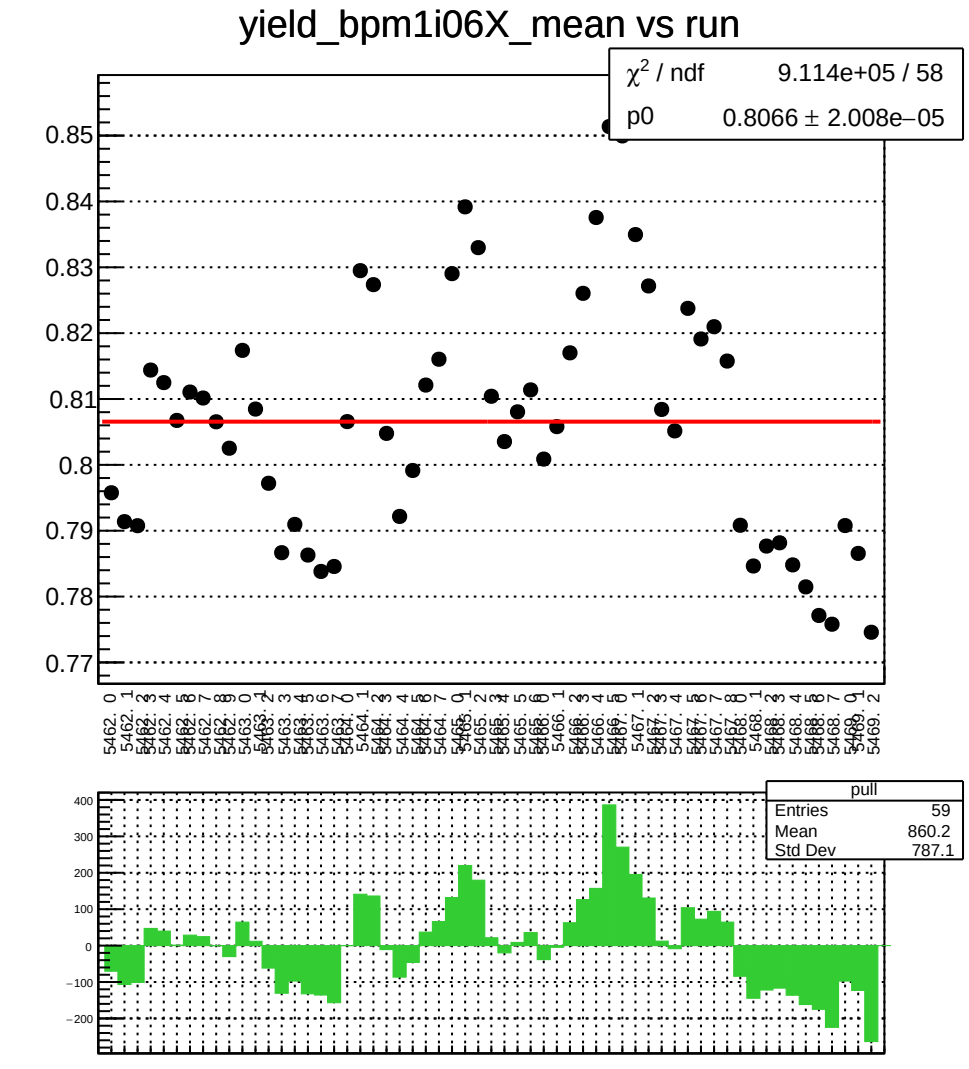

pull1D
Entries 59
Mean −0.1821
Std Dev 4.727
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

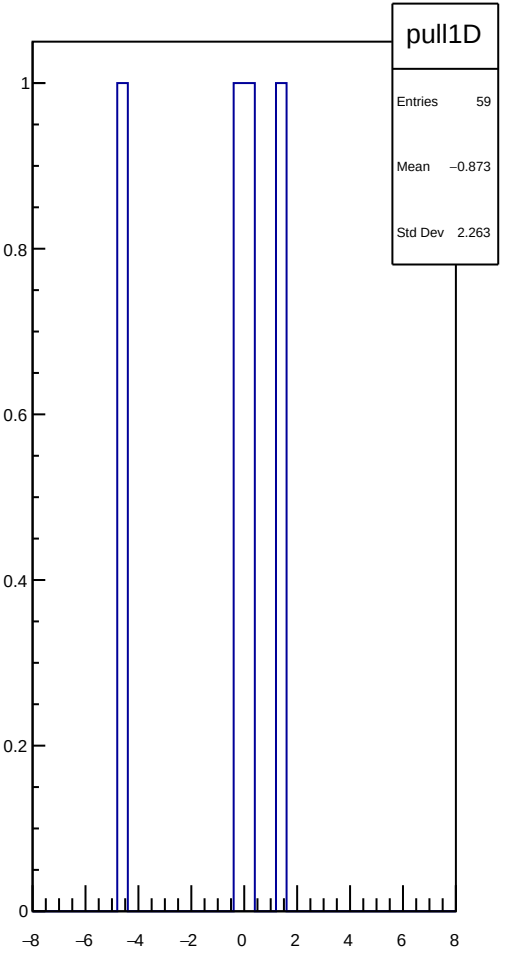

yield_bpm1i04X_rms vs run
χ² / ndf 2631 / 58
p0 0.008339 ± 7.845e−06
0.0095
0.009
0.0085
0.008
0.0075

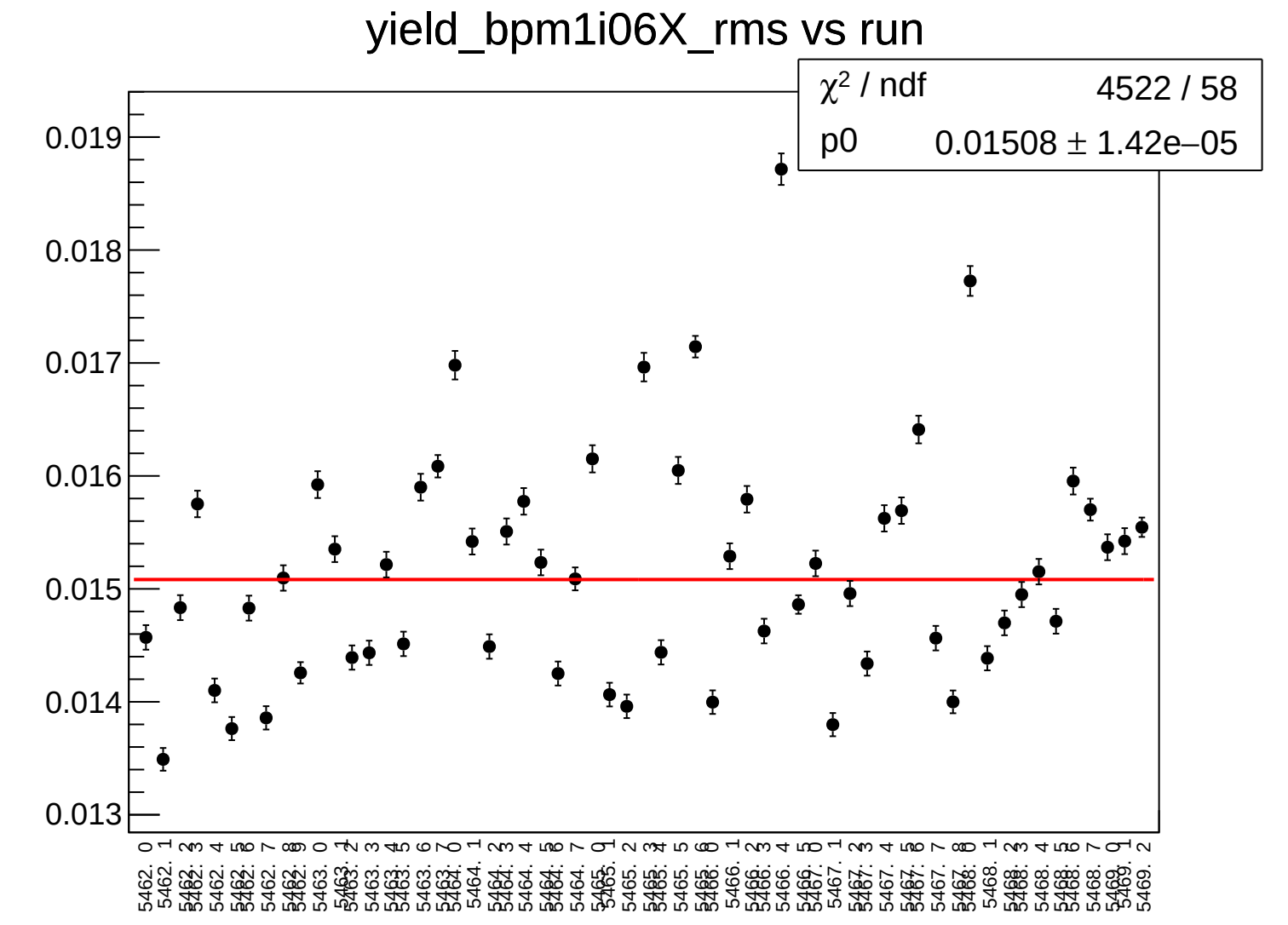

yield_bpm1i04Y_mean vs run
χ² / ndf 4.811e+06 / 58
p0 1.696 ± 7.134e−06
1.72
1.71
1.7
1.69
1.68
1.67
1.66
pull
Entries 59
Mean 1073
Std Dev 1047
400
200
0
−200
−400
−600

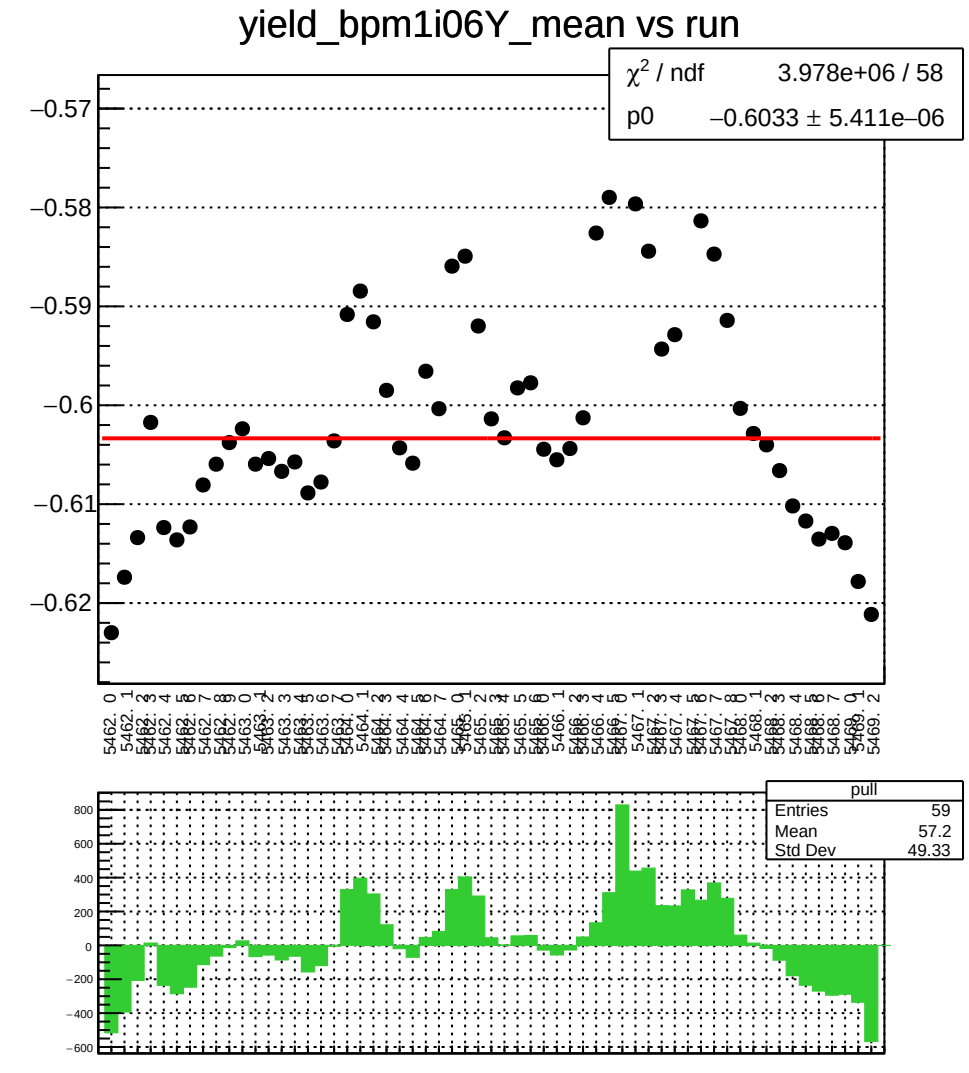

pull1D
Entries 59
Mean 2.356
Std Dev 7.041
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

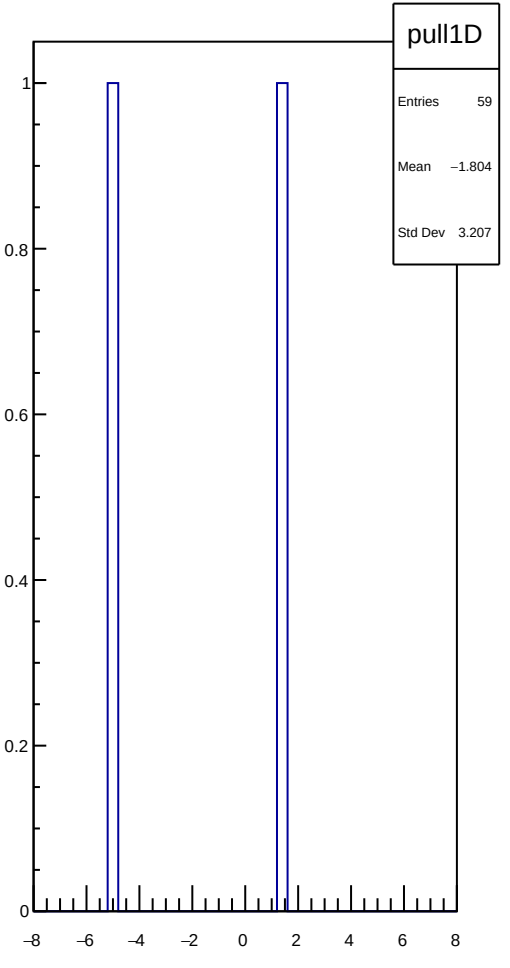

yield_bpm1i04Y_rms vs run
χ² / ndf 6732 / 58
p0 0.005353 ± 5.045e−06
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052
0.005
0.0048
0.0046

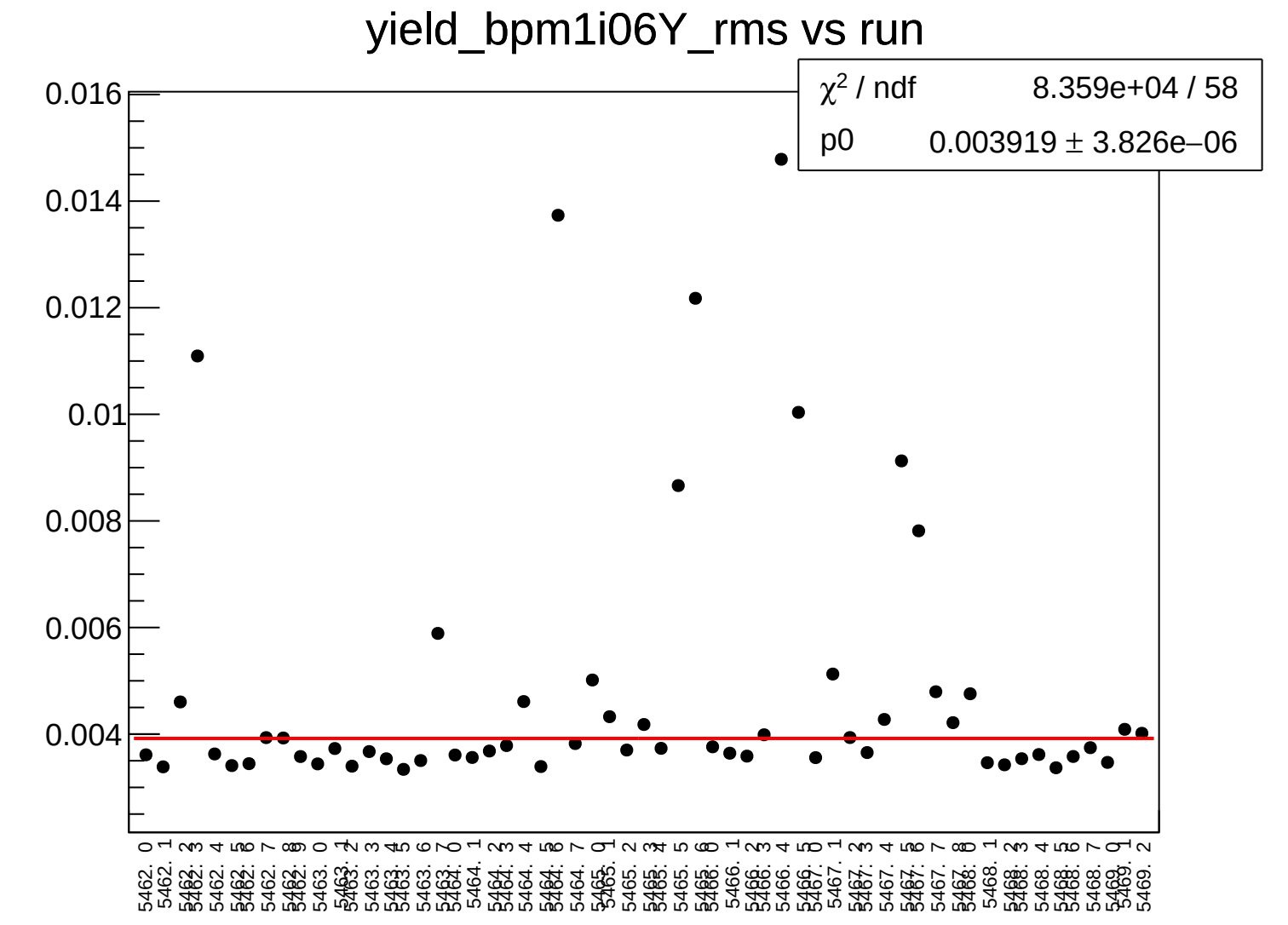

yield_bpm1i06X_mean vs run
χ² / ndf 9.114e+05 / 58
p0 0.8066 ± 2.008e−05
0.85
0.84
0.83
0.82
0.81
0.8
0.79
0.78
0.77
pull
Entries 59
Mean 860.2
Std Dev 787.1
400
300
200
100
0
−100
−200

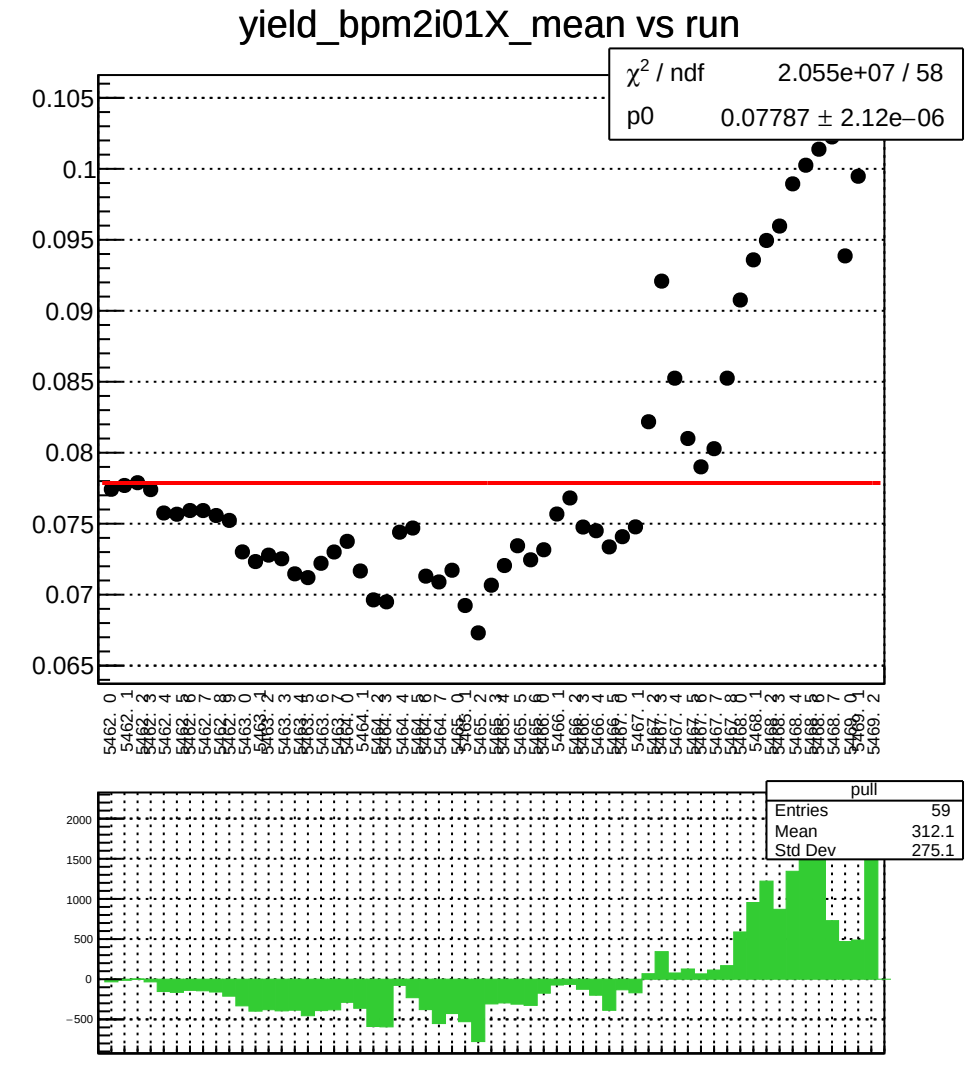

pull1D
Entries 59
Mean −0.873
Std Dev 2.263
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

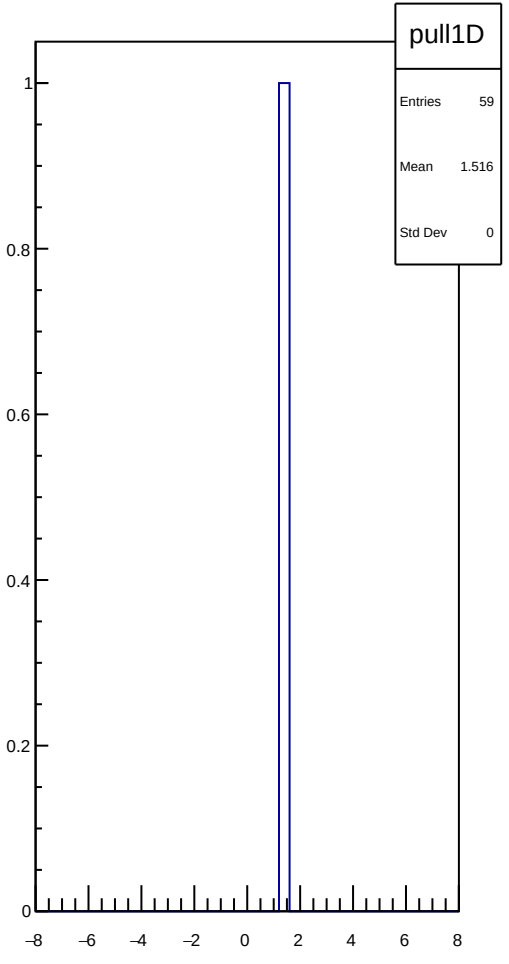

yield_bpm1i06X_rms vs run
χ² / ndf 4522 / 58
p0 0.01508 ± 1.42e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013

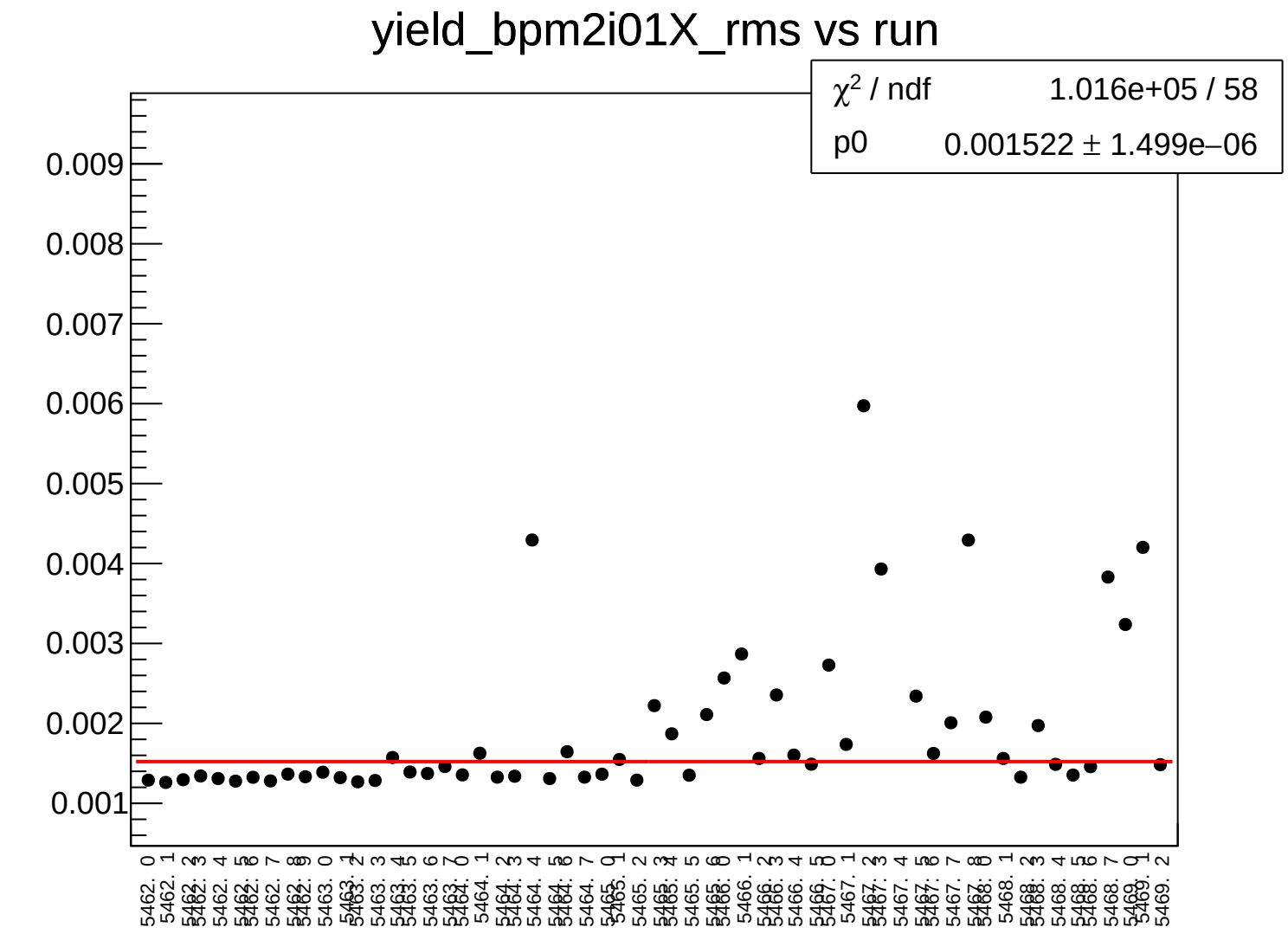

yield_bpm1i06Y_mean vs run
χ² / ndf 3.978e+06 / 58
p0 −0.6033 ± 5.411e−06
−0.57
−0.58
−0.59
−0.6
−0.61
−0.62
pull
Entries 59
Mean 57.2
Std Dev 49.33
800
600
400
200
0
−200
−400
−600

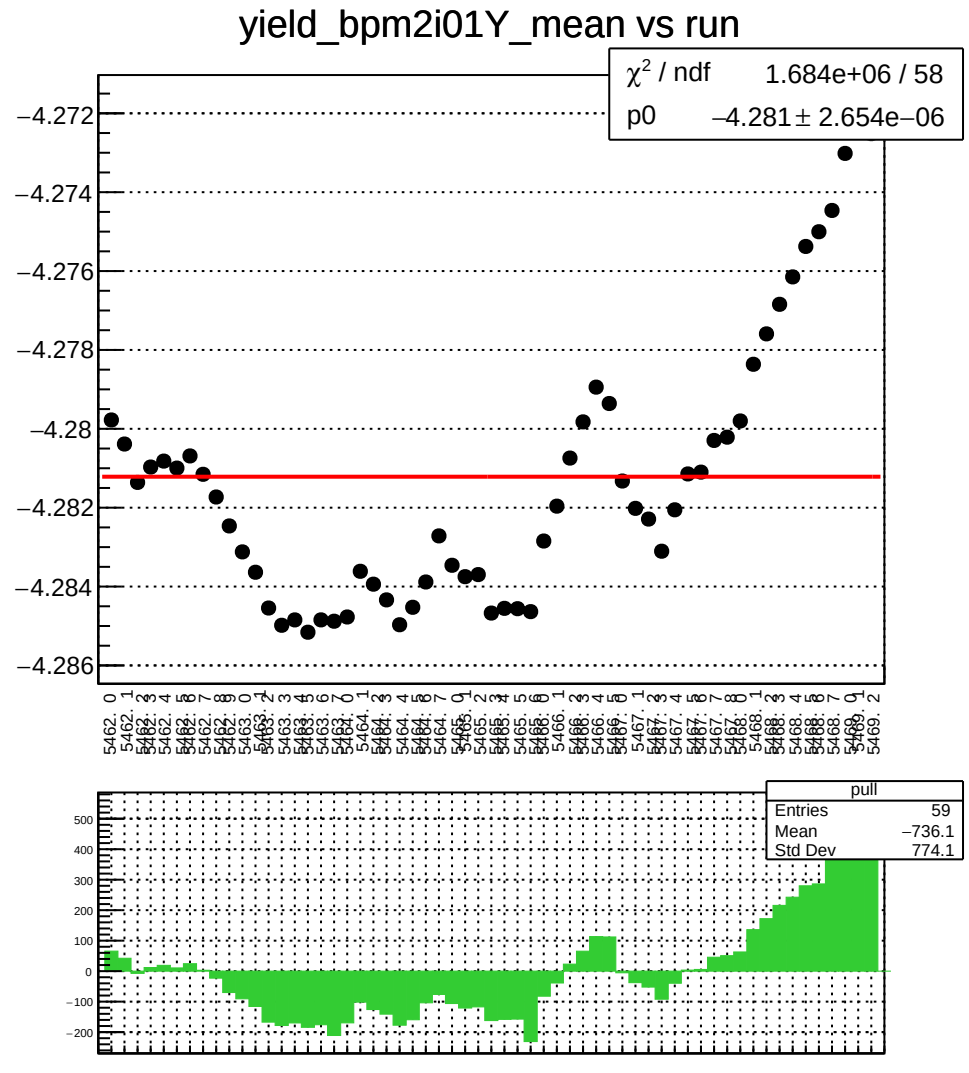

pull1D
Entries 59
Mean −1.804
Std Dev 3.207
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

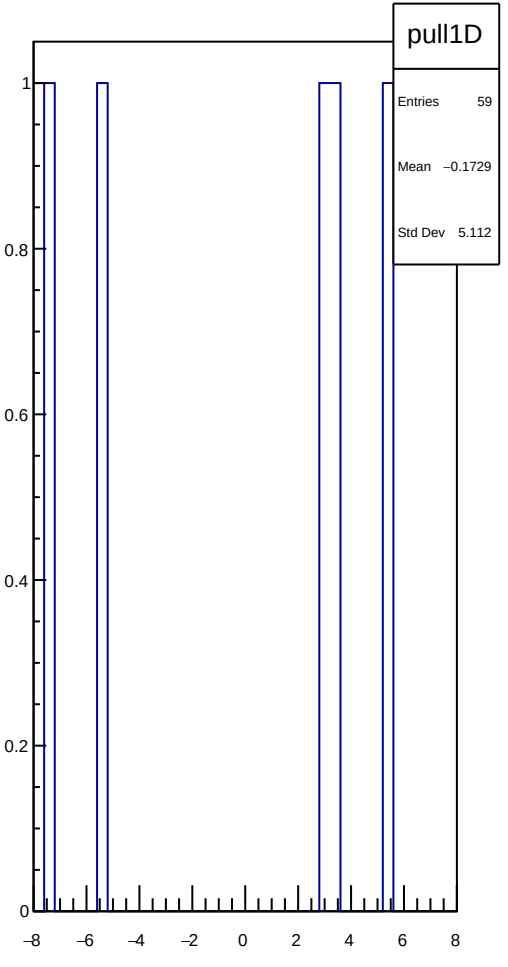

yield_bpm1i06Y_rms vs run
χ² / ndf 8.359e+04 / 58
p0 0.003919 ± 3.826e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

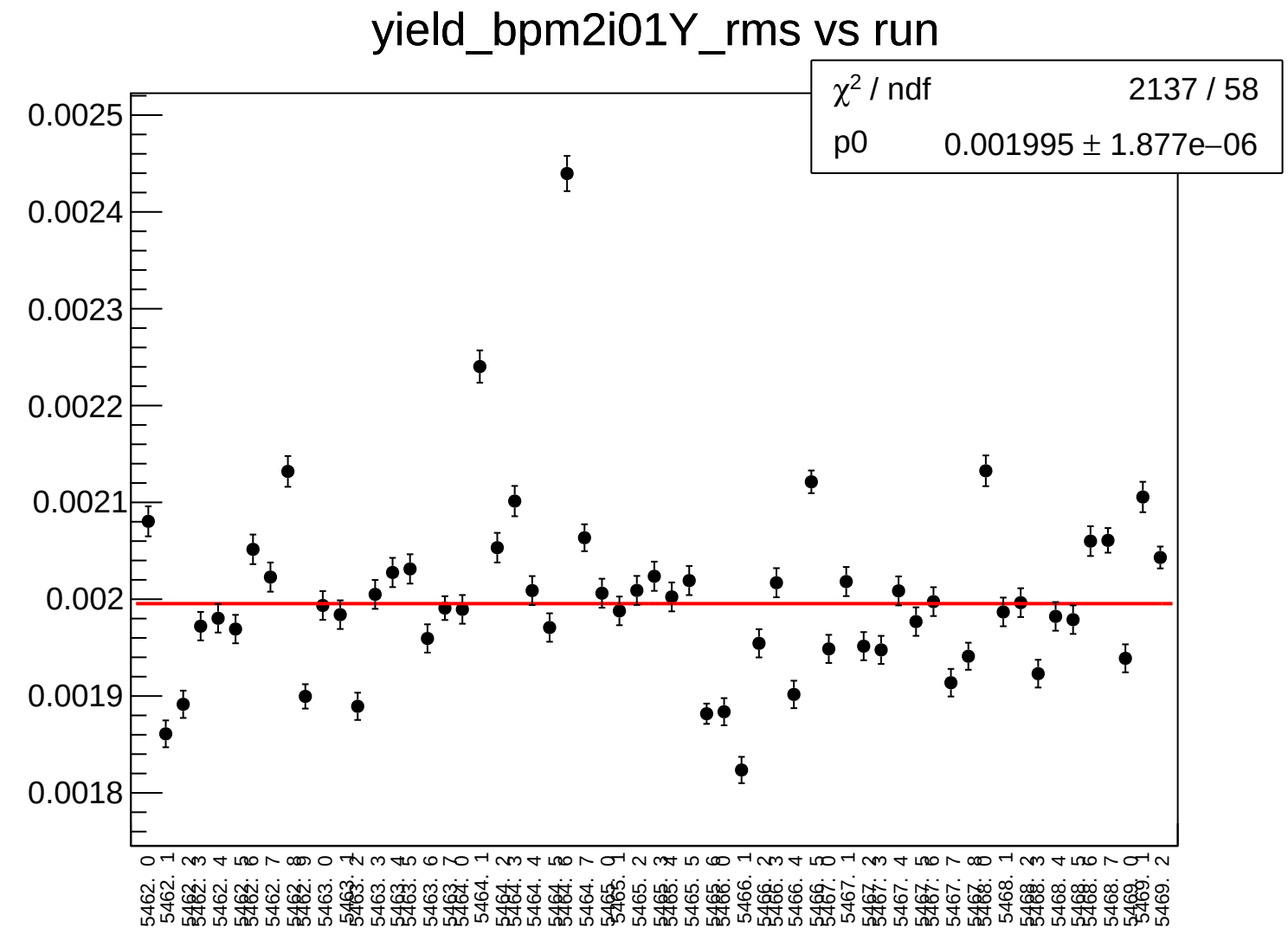

yield_bpm2i01X_mean vs run
χ² / ndf 2.055e+07 / 58
p0 0.07787 ± 2.12e−06
pull
Entries 59
Mean 312.1
Std Dev 275.1

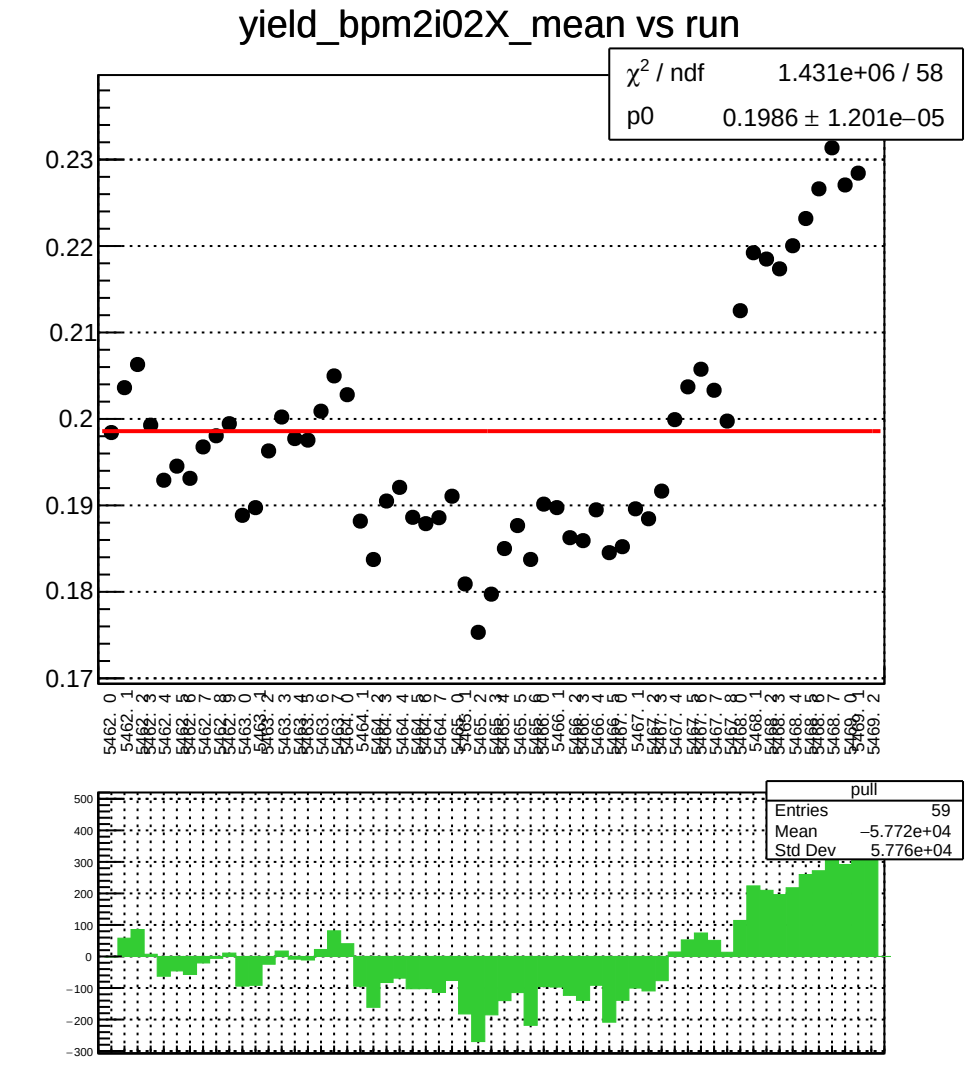

pull1D
Entries 59
Mean 1.516
Std Dev 0

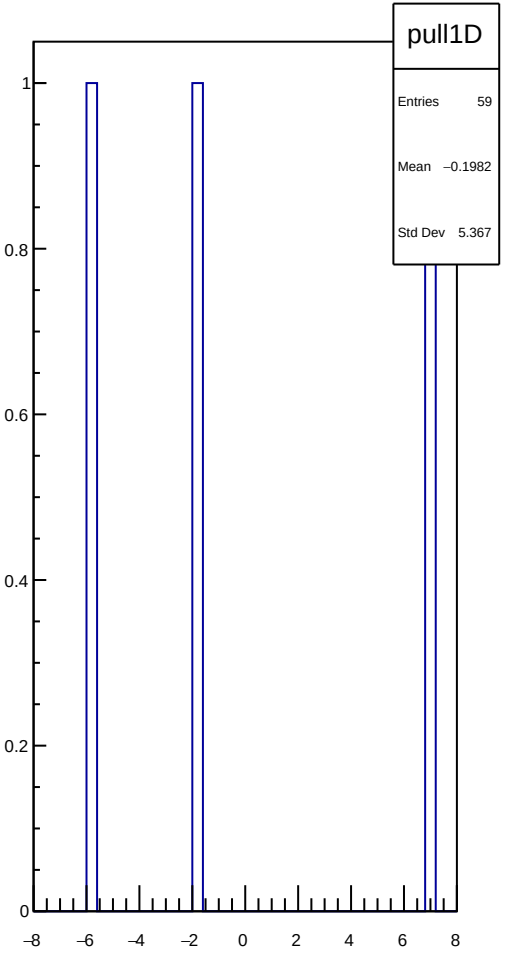

yield_bpm2i01X_rms vs run
χ² / ndf 1.016e+05 / 58
p0 0.001522 ± 1.499e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001

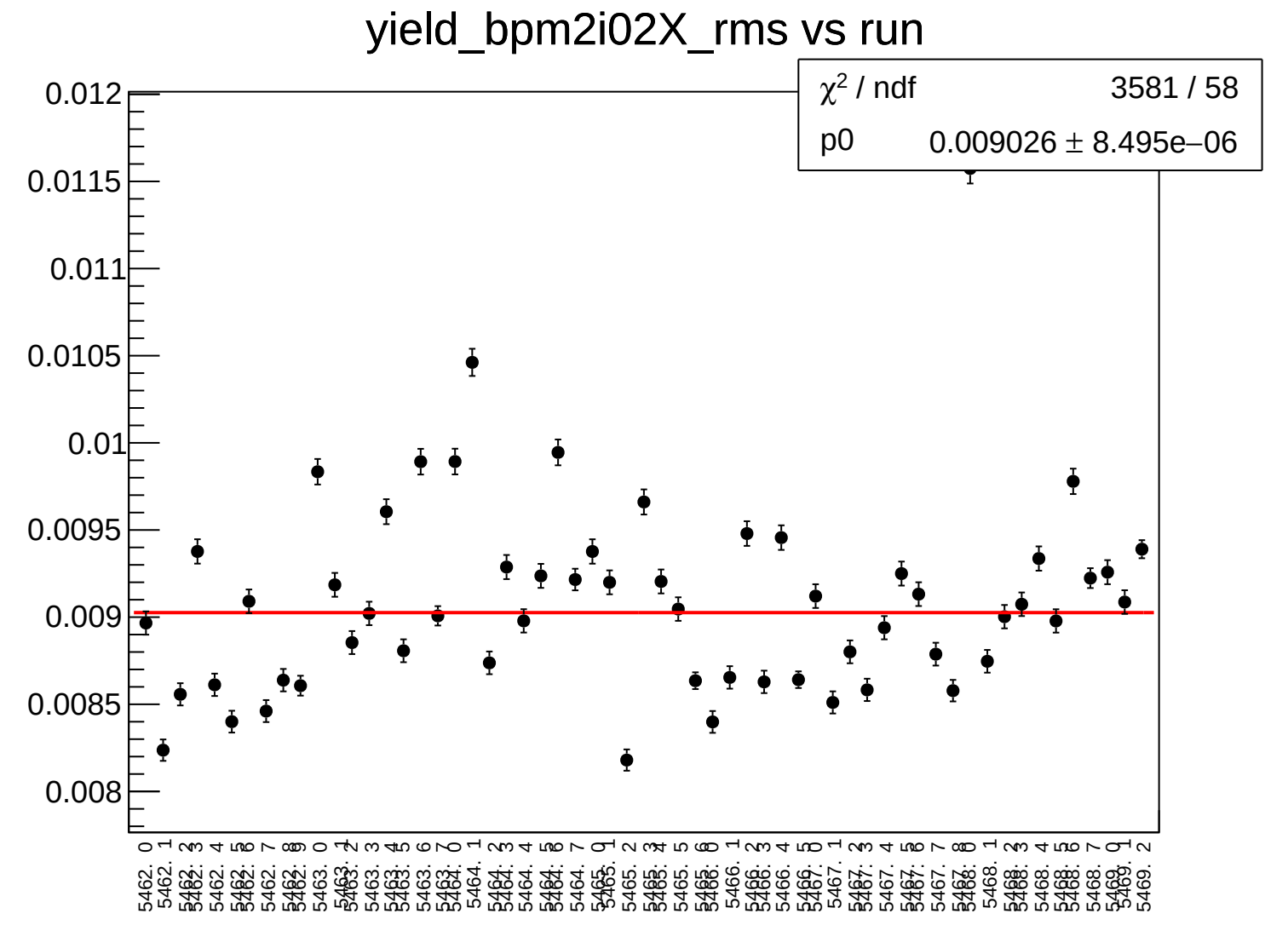

yield_bpm2i01Y_mean vs run
χ² / ndf 1.684e+06 / 58
p0 −4.281 ± 2.654e−06
−4.272
−4.274
−4.276
−4.278
−4.28
−4.282
−4.284
−4.286
pull
Entries 59
Mean −736.1
Std Dev 774.1
500
400
300
200
100
0
−100
−200

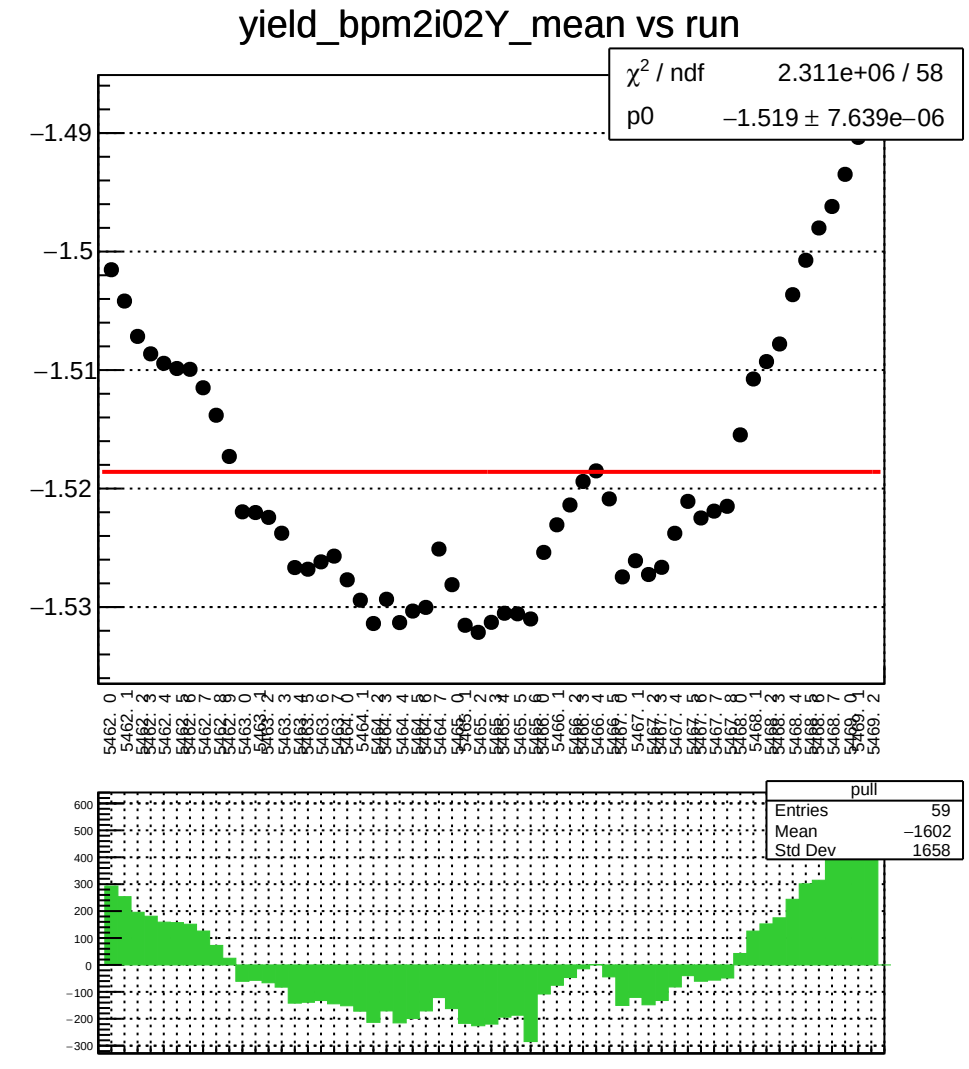

pull1D
Entries 59
Mean −0.1729
Std Dev 5.112
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

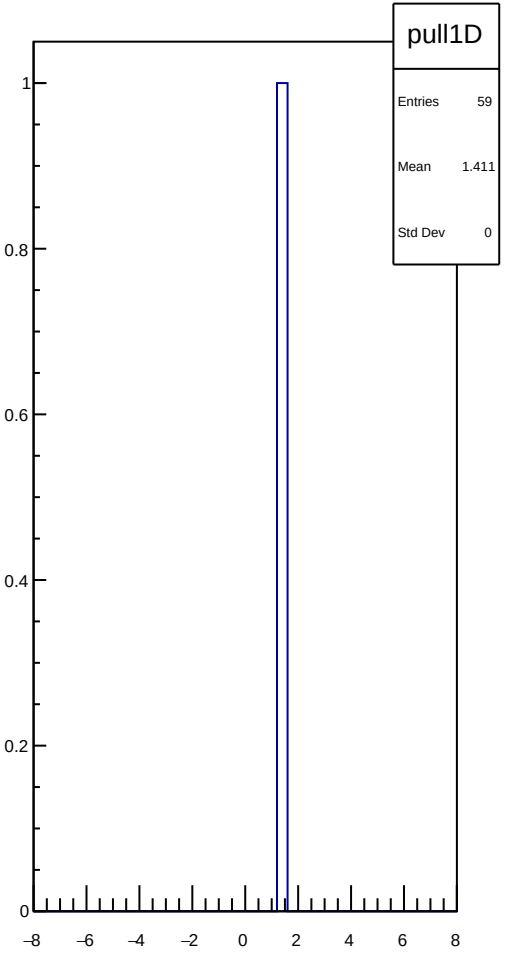

yield_bpm2i01Y_rms vs run
χ² / ndf 2137 / 58
p0 0.001995 ± 1.877e−06
0.0025
0.0024
0.0023
0.0022
0.0021
0.002
0.0019
0.0018

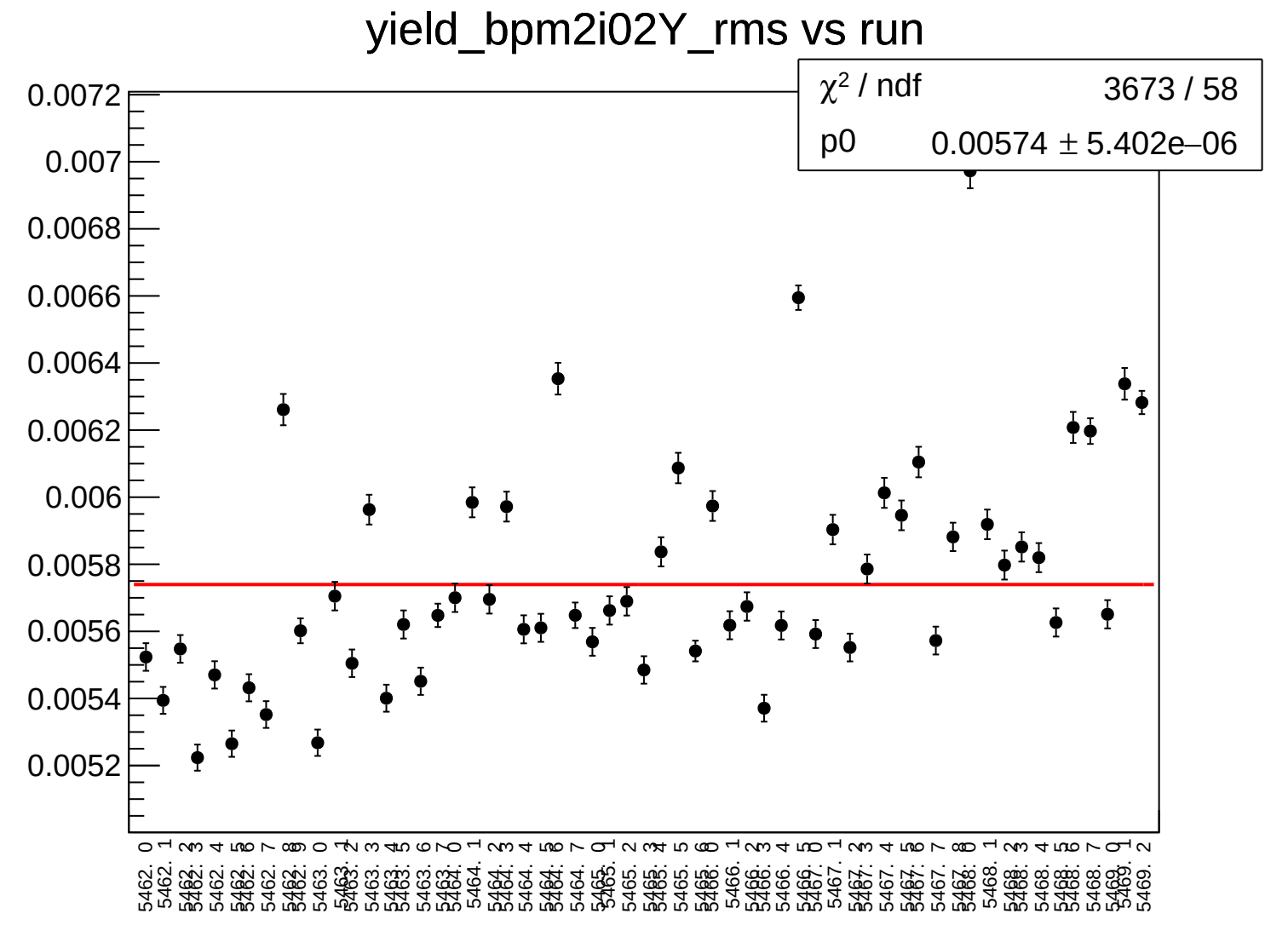

yield_bpm2i02X_mean vs run
χ² / ndf 1.431e+06 / 58
p0 0.1986 ± 1.201e−05
0.23
0.22
0.21
0.2
0.19
0.18
0.17
pull
Entries 59
Mean −5.772e+04
Std Dev 5.776e+04
500
400
300
200
100
0
−100
−200
−300

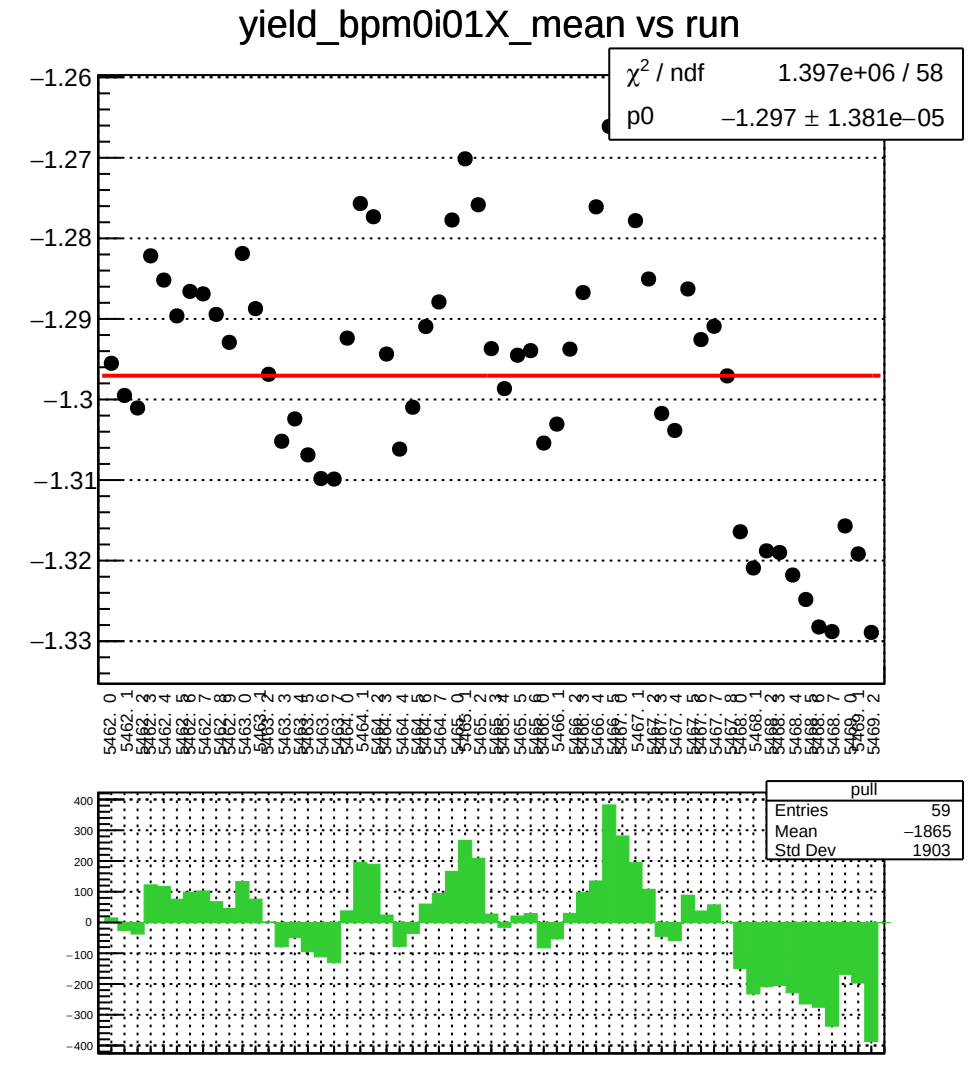

pull1D
Entries 59
Mean −0.1982
Std Dev 5.367
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

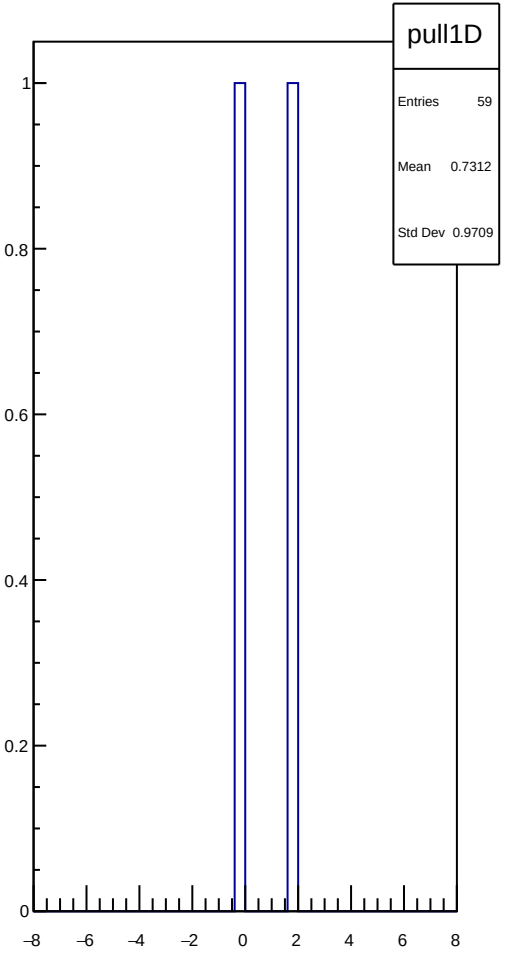

yield_bpm2i02X_rms vs run
χ² / ndf 3581 / 58
p0 0.009026 ± 8.495e−06
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009
0.0085
0.008

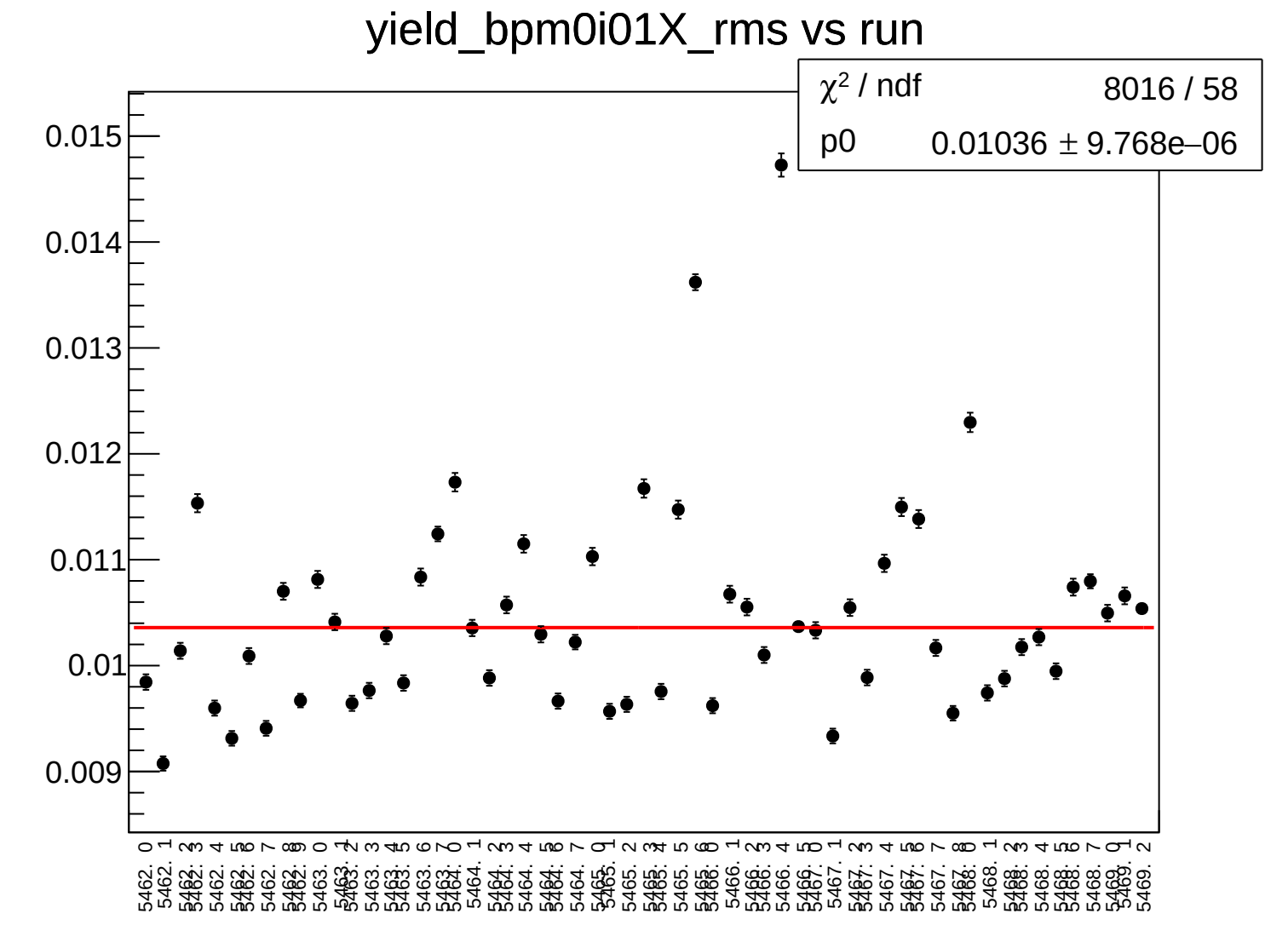

yield_bpm2i02Y_mean vs run
χ² / ndf 2.311e+06 / 58
p0 −1.519 ± 7.639e−06
−1.49
−1.5
−1.51
−1.52
−1.53
pull
Entries 59
Mean −1602
Std Dev 1658
600
500
400
300
200
100
0
−100
−200
−300

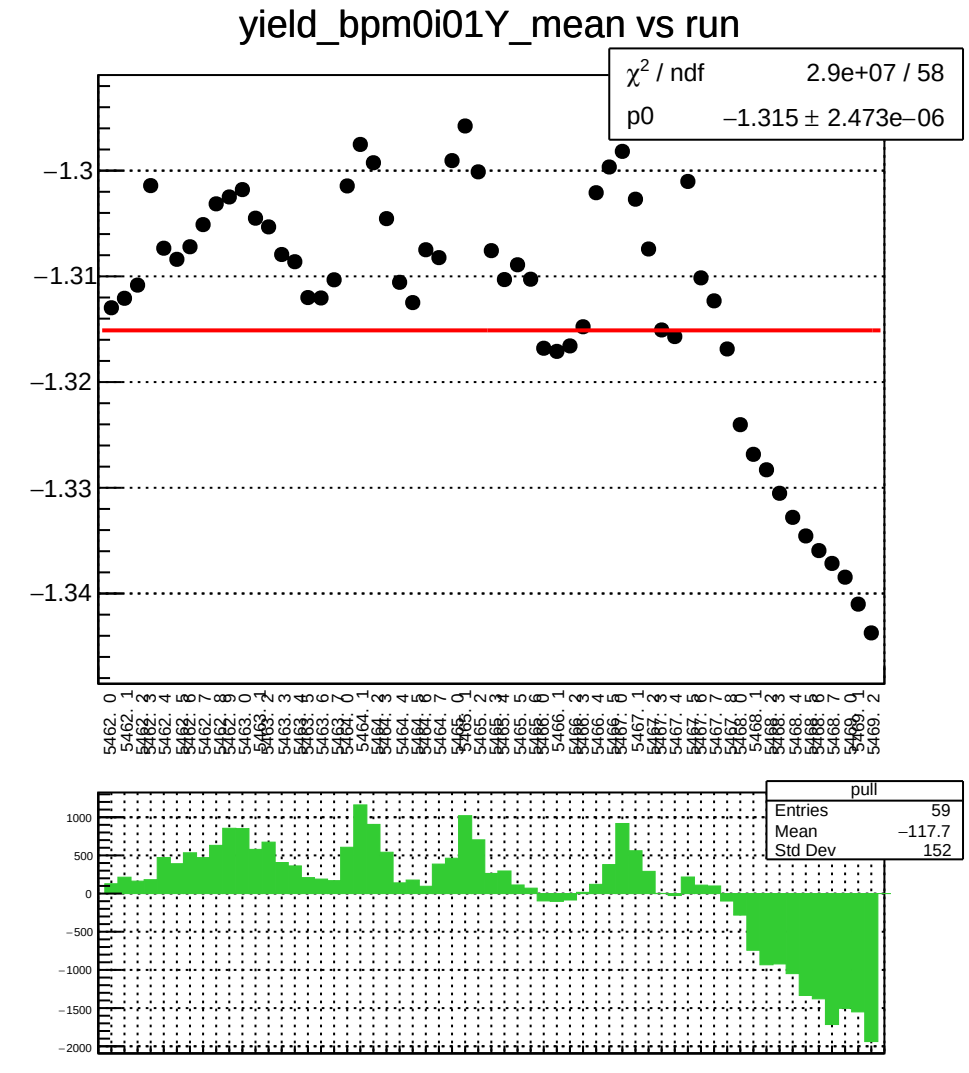

pull1D
Entries 59
Mean 1.411
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

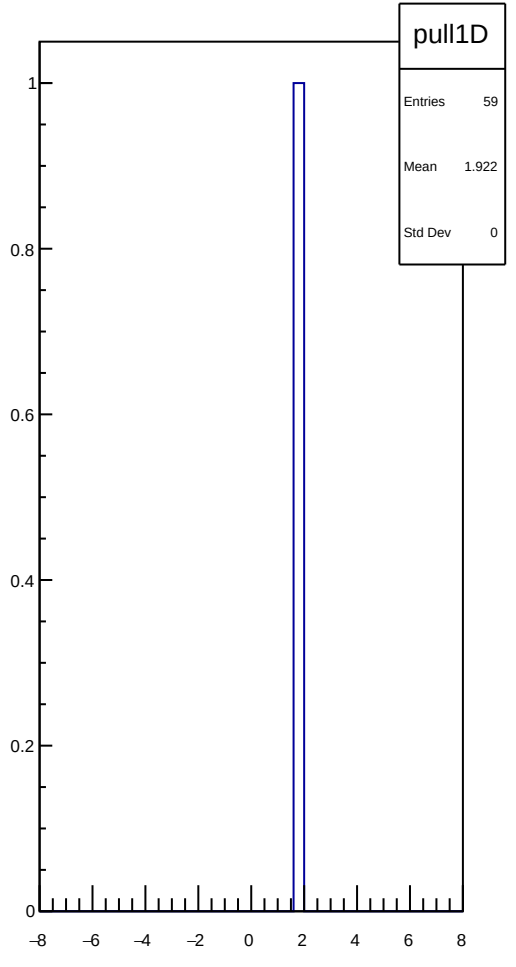

yield_bpm2i02Y_rms vs run
χ² / ndf 3673 / 58
p0 0.00574 ± 5.402e–06
0.0072
0.007
0.0068
0.0066
0.0064
0.0062
0.006
0.0058
0.0056
0.0054
0.0052

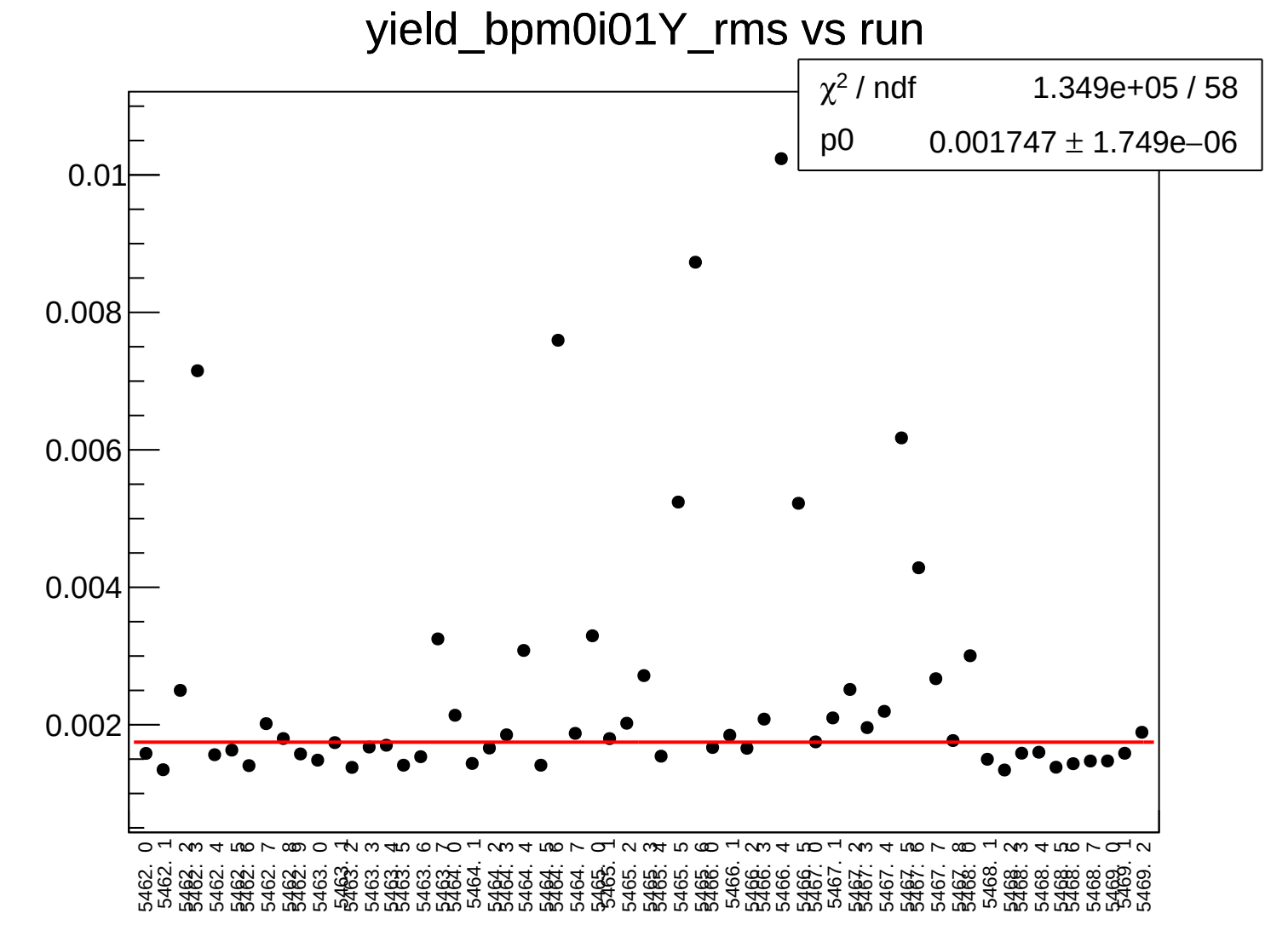

yield_bpm0i01X_mean vs run
χ² / ndf 1.397e+06 / 58
p0 −1.297 ± 1.381e−05
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
−1.32
−1.33
pull
Entries 59
Mean −1865
Std Dev 1903
400
300
200
100
0
−100
−200
−300
−400

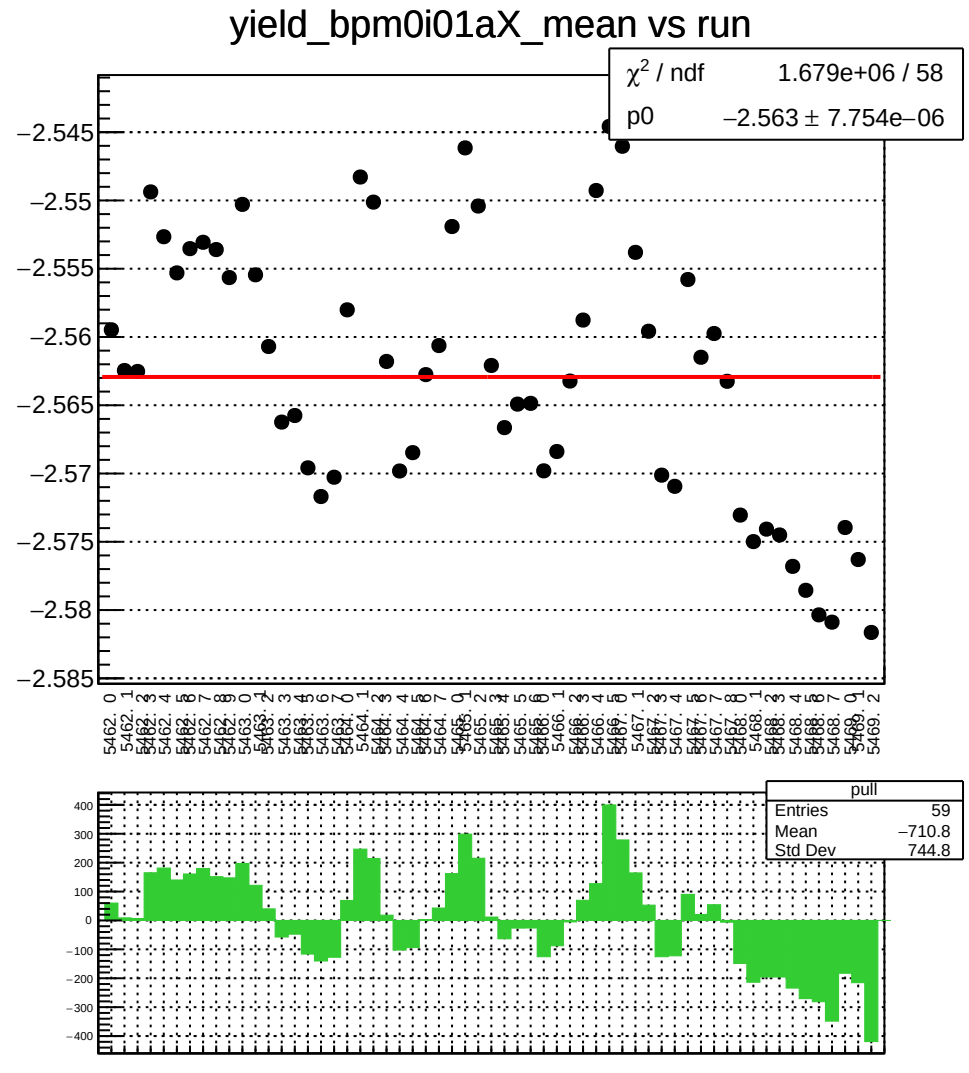

pull1D
Entries 59
Mean 0.7312
Std Dev 0.9709
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

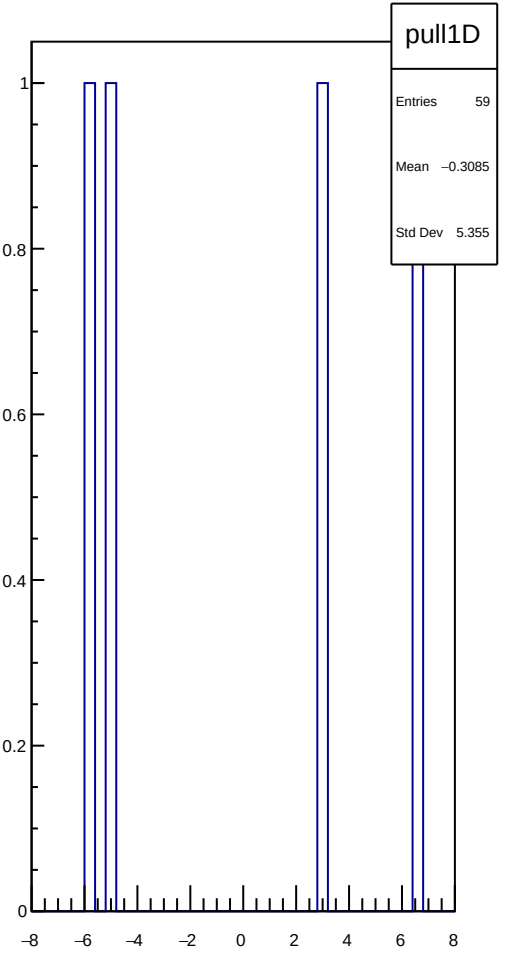

yield_bpm0i01X_rms vs run
χ² / ndf 8016 / 58
p0 0.01036 ± 9.768e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

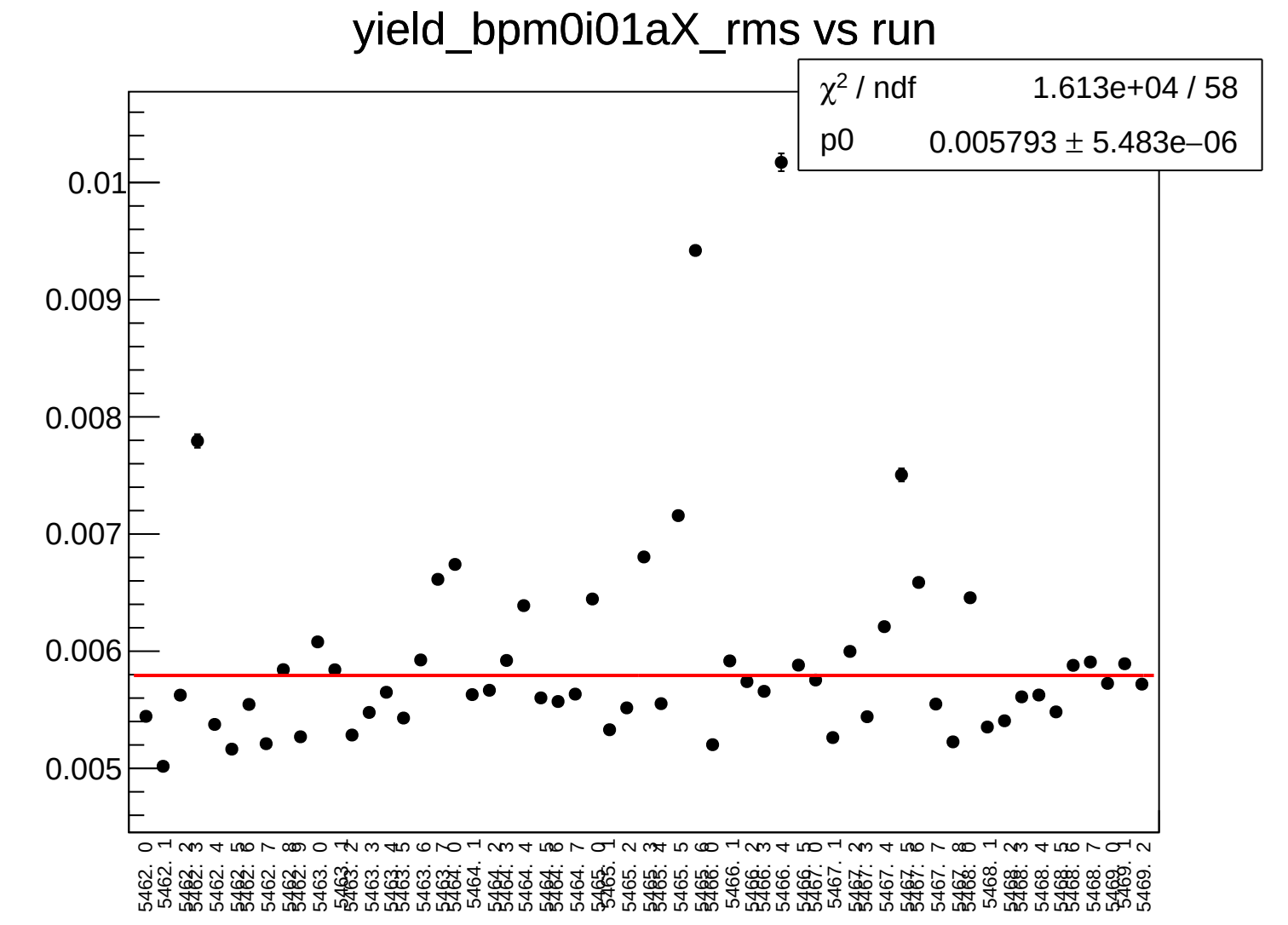

yield_bpm0i01Y_mean vs run
χ² / ndf 2.9e+07 / 58
p0 −1.315 ± 2.473e−06
−1.3
−1.31
−1.32
−1.33
−1.34
pull
Entries 59
Mean −117.7
Std Dev 152
1000
500
0
−500
−1000
−1500
−2000

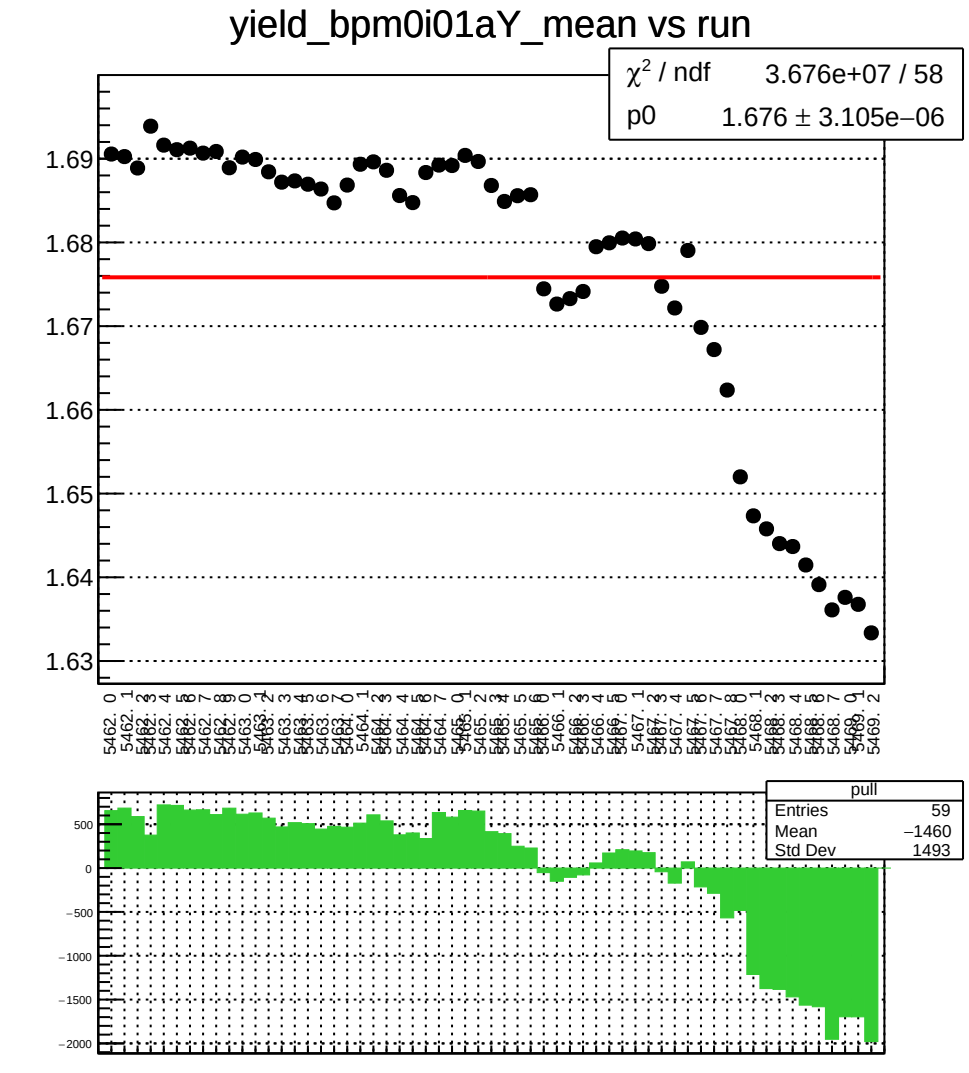

pull1D
Entries 59
Mean 1.922
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

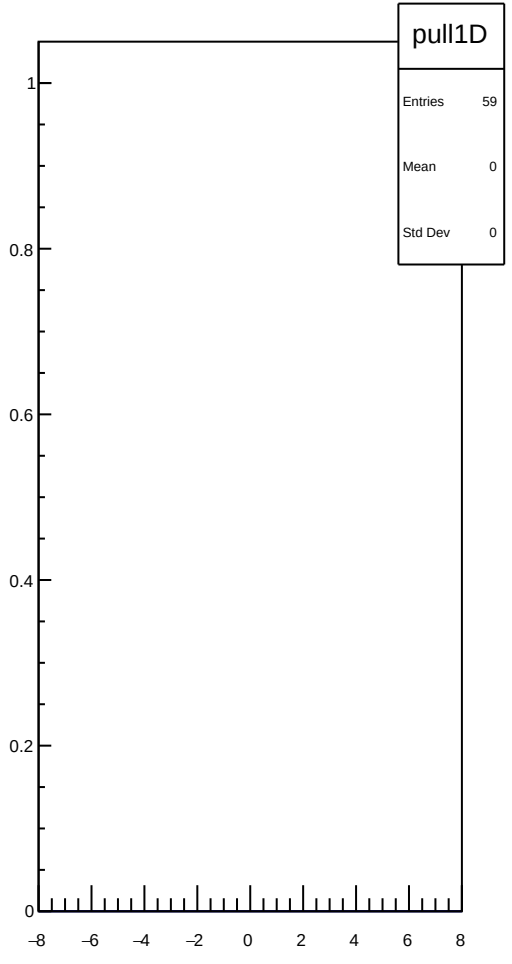

yield_bpm0i01Y_rms vs run
χ² / ndf 1.349e+05 / 58
p0 0.001747 ± 1.749e−06
0.01
0.008
0.006
0.004
0.002

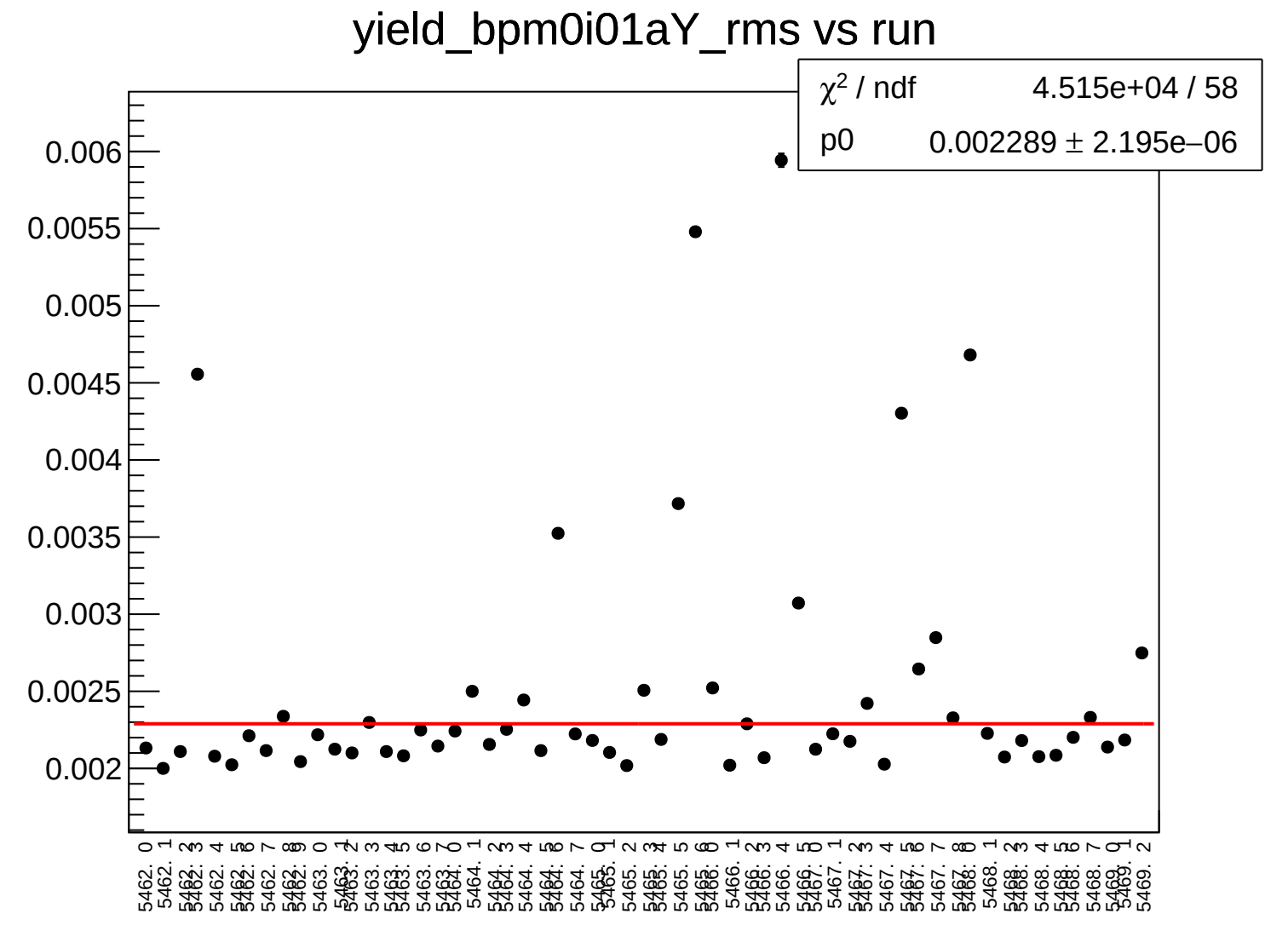

yield_bpm0i01aX_mean vs run
χ² / ndf 1.679e+06 / 58
p0 −2.563 ± 7.754e−06
−2.545
−2.55
−2.555
−2.56
−2.565
−2.57
−2.575
−2.58
−2.585
pull
Entries 59
Mean −710.8
Std Dev 744.8
400
300
200
100
0
−100
−200
−300
−400

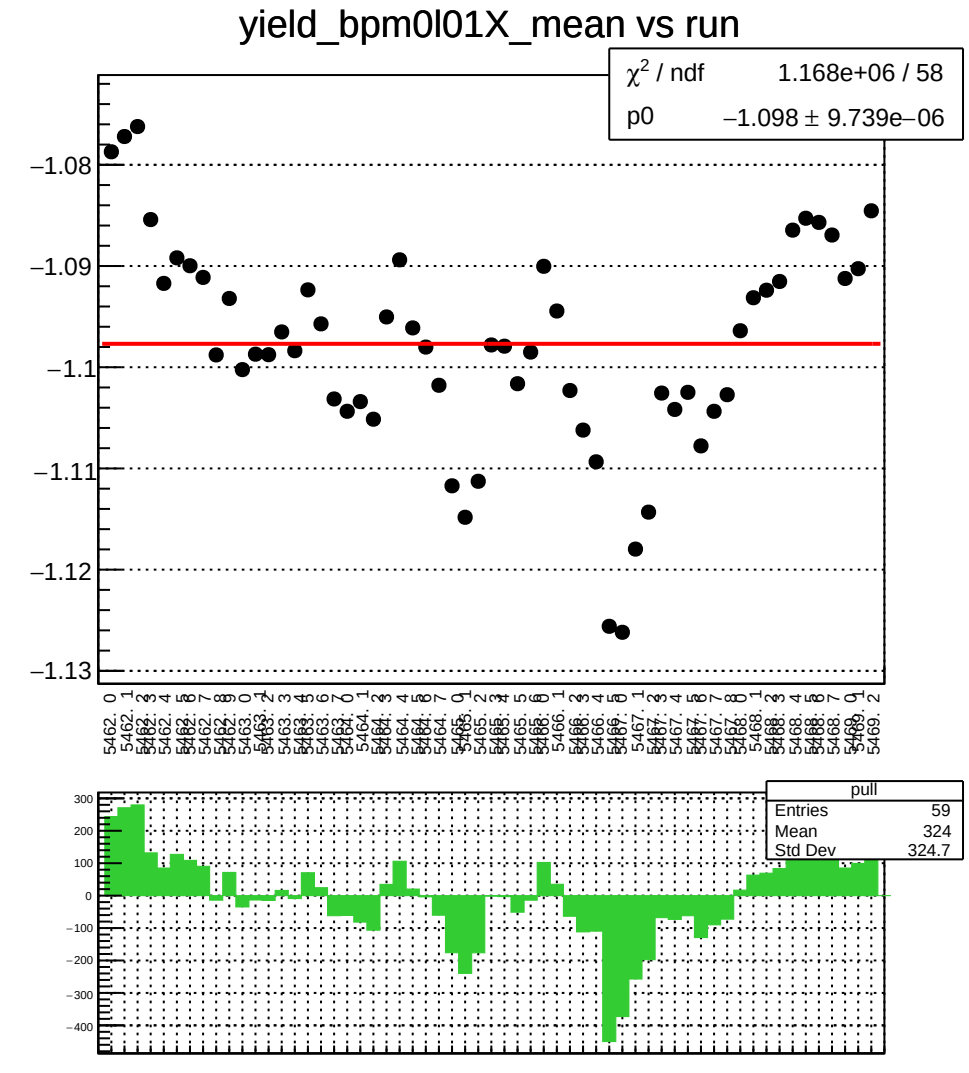

pull1D
Entries 59
Mean −0.3085
Std Dev 5.355
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

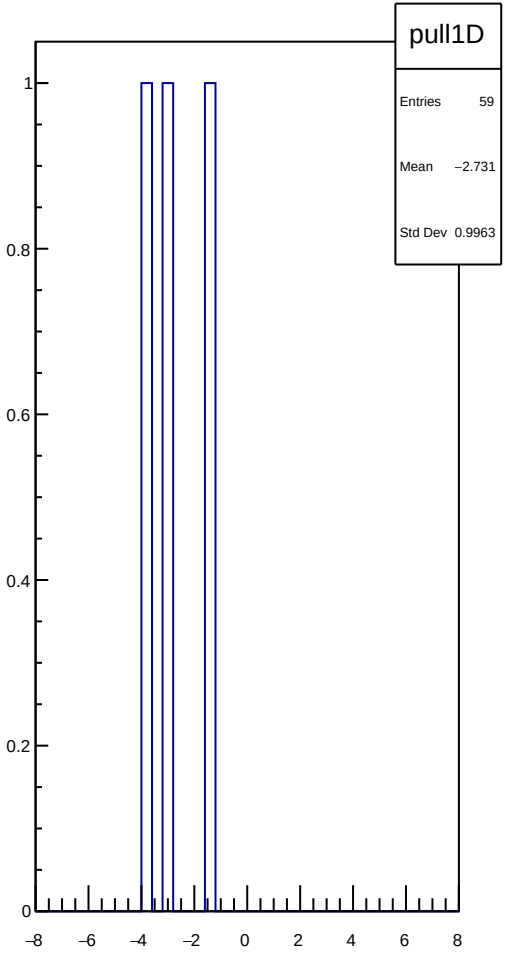

yield_bpm0i01aX_rms vs run
χ² / ndf 1.613e+04 / 58
p0 0.005793 ± 5.483e−06
0.01
0.009
0.008
0.007
0.006
0.005
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

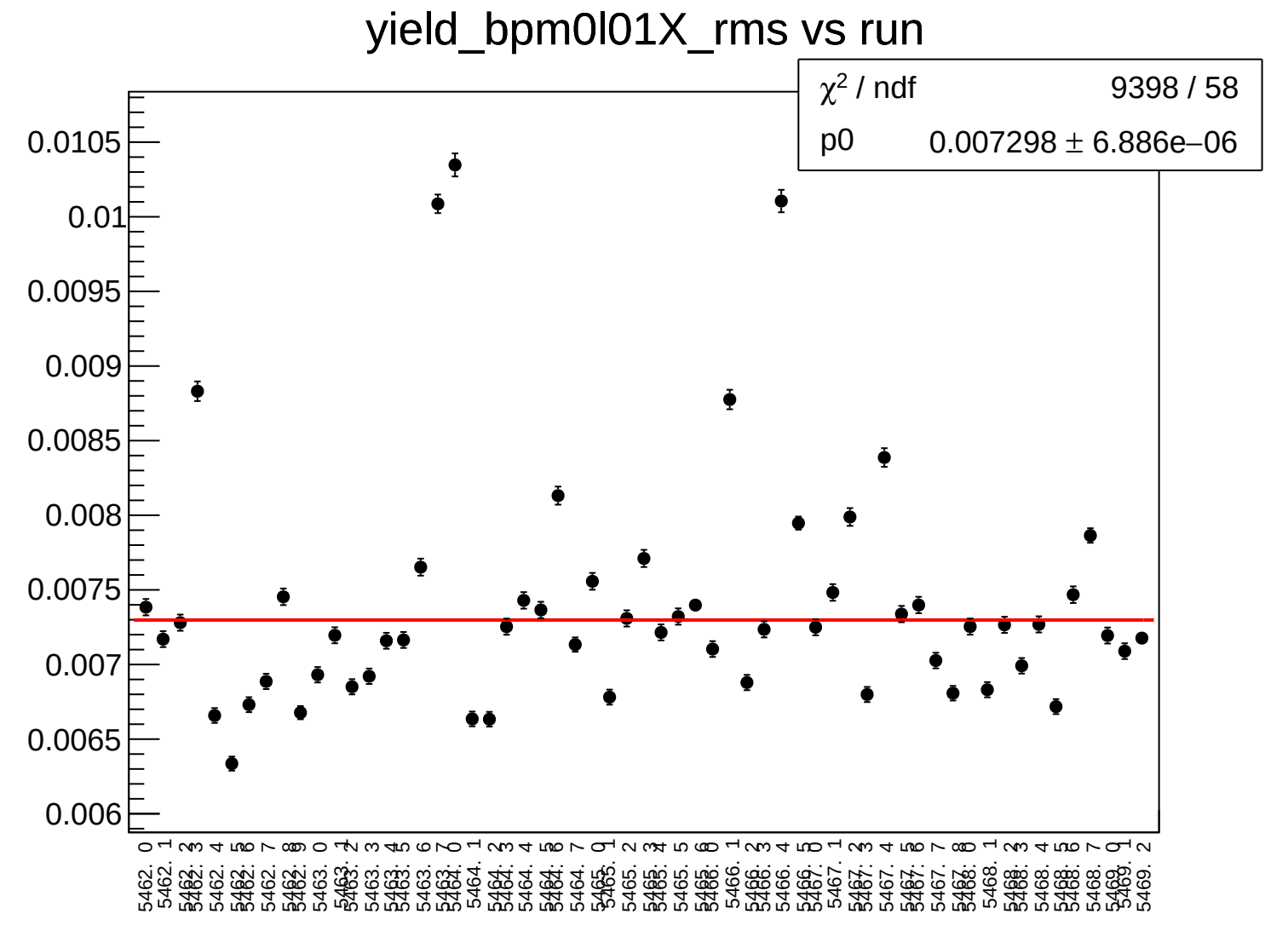

yield_bpm0i01aY_mean vs run
χ² / ndf 3.676e+07 / 58
p0 1.676 ± 3.105e−06
1.69
1.68
1.67
1.66
1.65
1.64
1.63
pull
Entries 59
Mean −1460
Std Dev 1493
500
0
−500
−1000
−1500
−2000

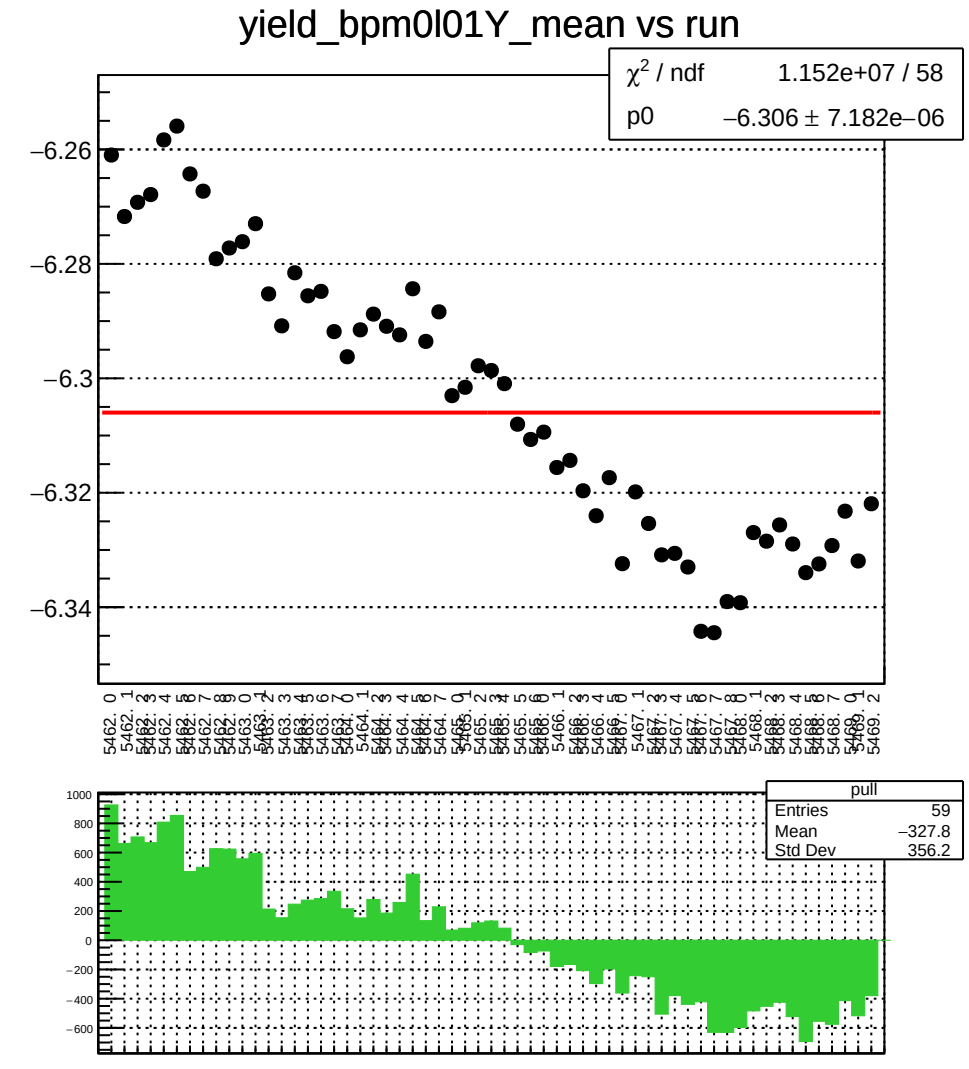

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

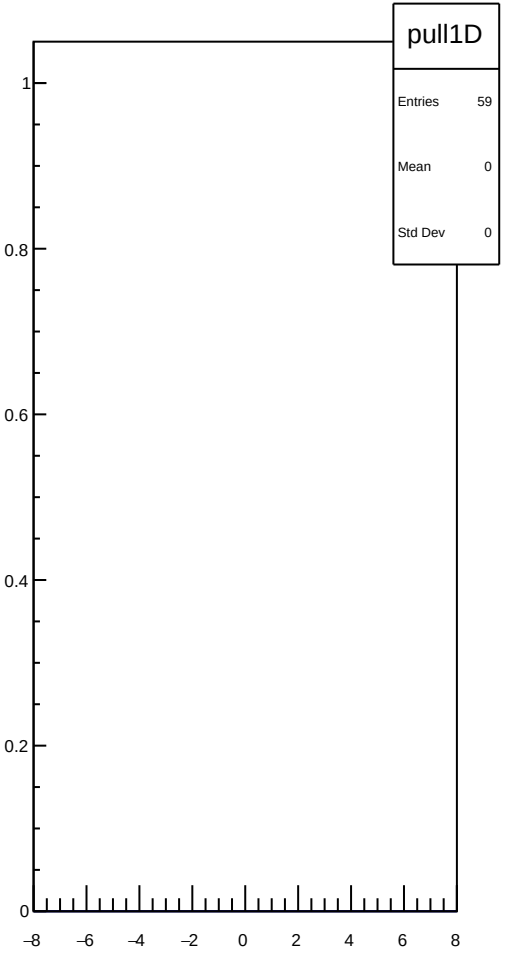

yield_bpm0i01aY_rms vs run
χ² / ndf 4.515e+04 / 58
p0 0.002289 ± 2.195e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

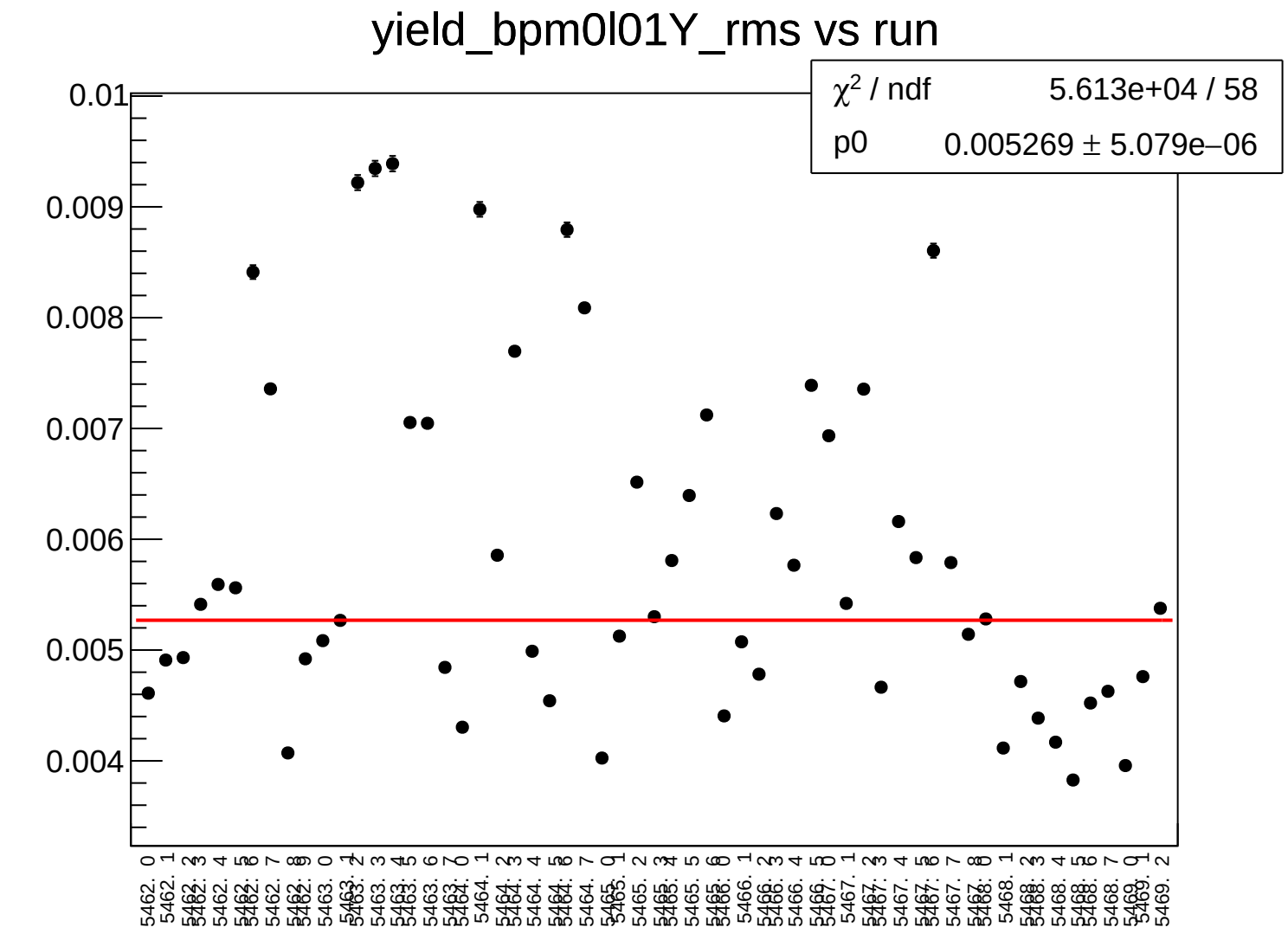

yield_bpm0l01X_mean vs run
χ² / ndf 1.168e+06 / 58
p0 −1.098 ± 9.739e−06
−1.08
−1.09
−1.1
−1.11
−1.12
−1.13
pull
Entries 59
Mean 324
Std Dev 324.7
300
200
100
0
−100
−200
−300
−400

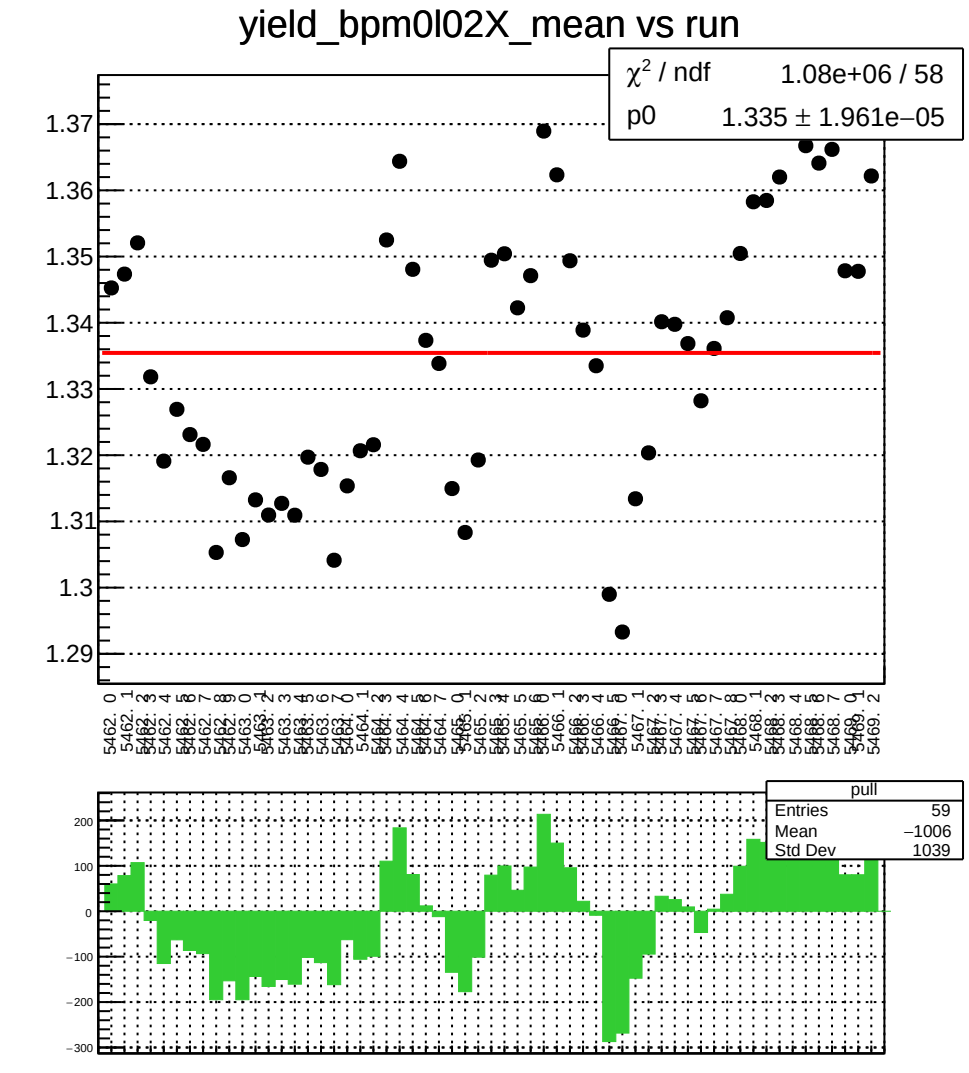

pull1D
Entries 59
Mean −2.731
Std Dev 0.9963
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

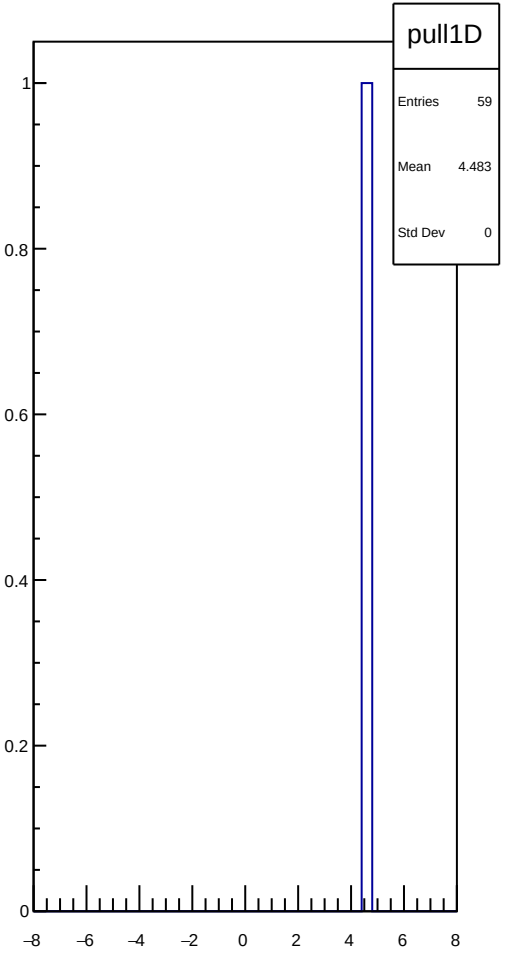

yield_bpm0l01X_rms vs run
χ^2 / ndf 9398 / 58
p0 0.007298 ± 6.886e−06
0.0105
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006

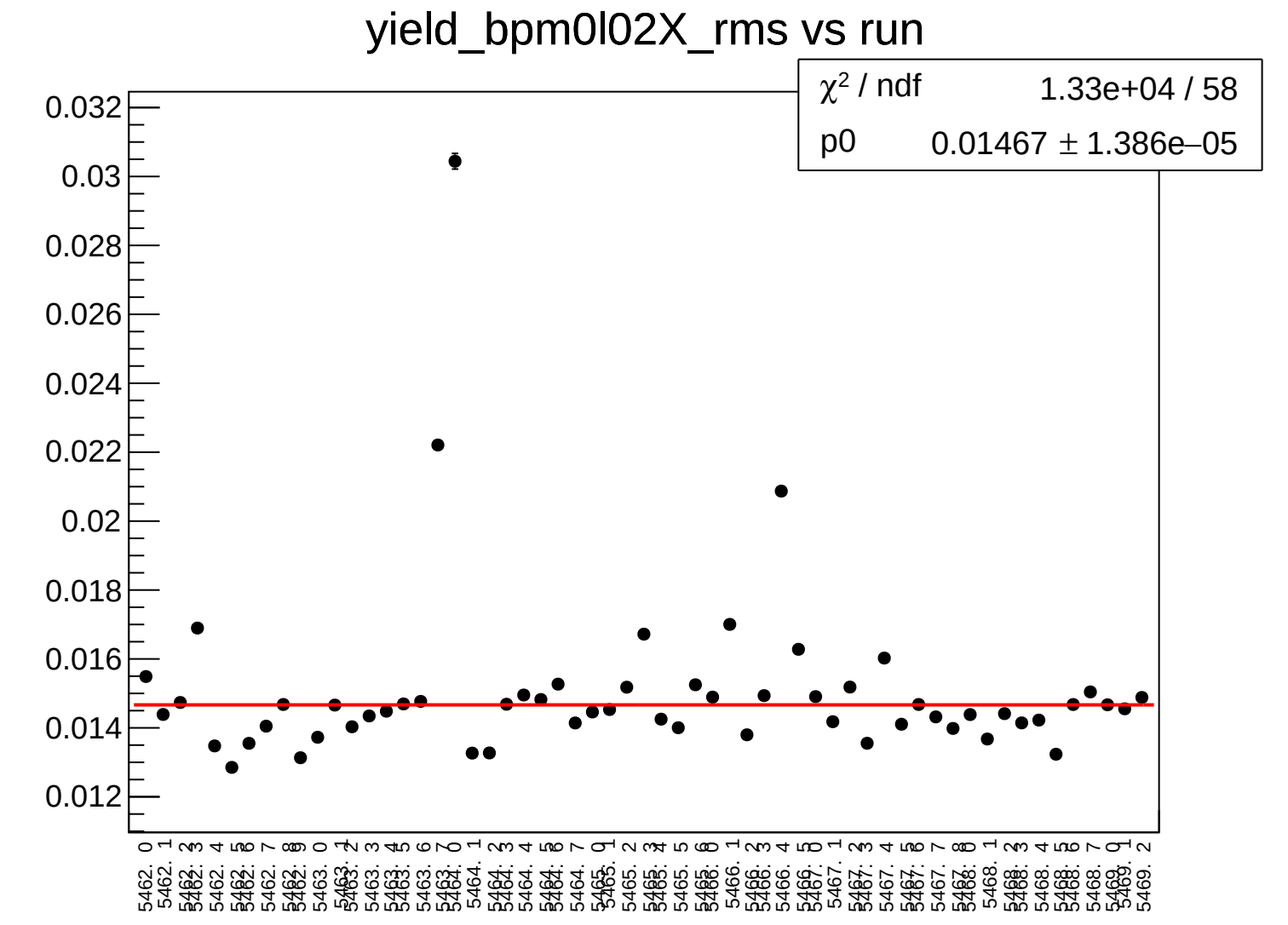

yield_bpm0l01Y_mean vs run
χ² / ndf 1.152e+07 / 58
p0 −6.306 ± 7.182e−06
−6.26
−6.28
−6.3
−6.32
−6.34
pull
Entries 59
Mean −327.8
Std Dev 356.2
1000
800
600
400
200
0
−200
−400
−600

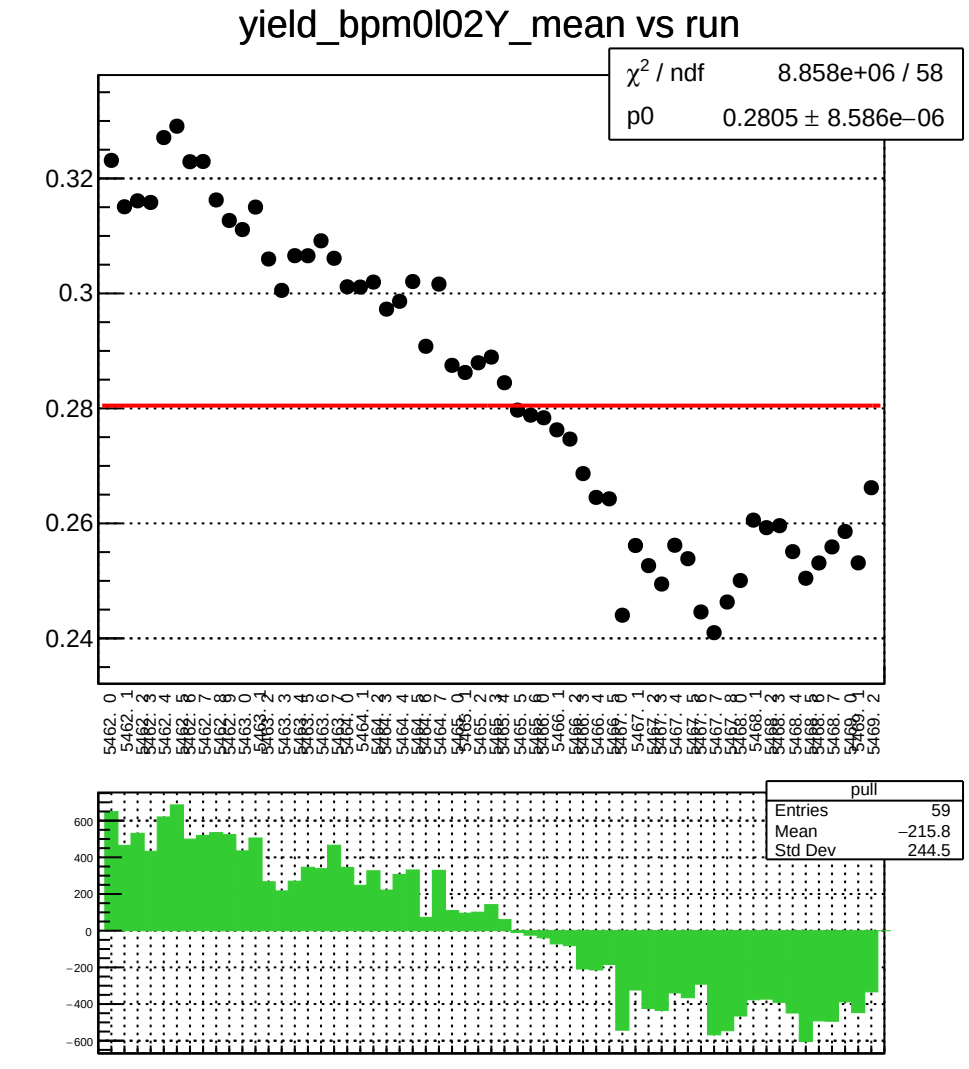

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

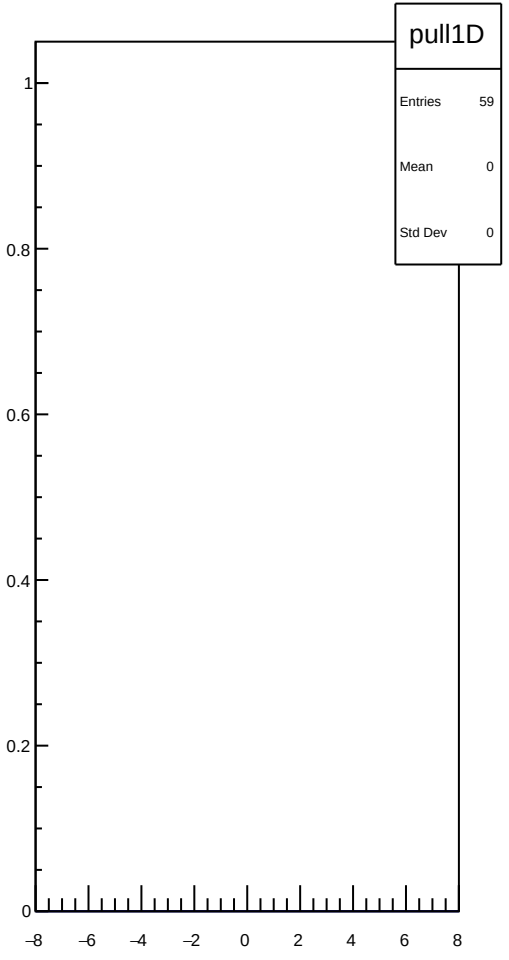

yield_bpm0l01Y_rms vs run
χ² / ndf 5.613e+04 / 58
p0 0.005269 ± 5.079e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004

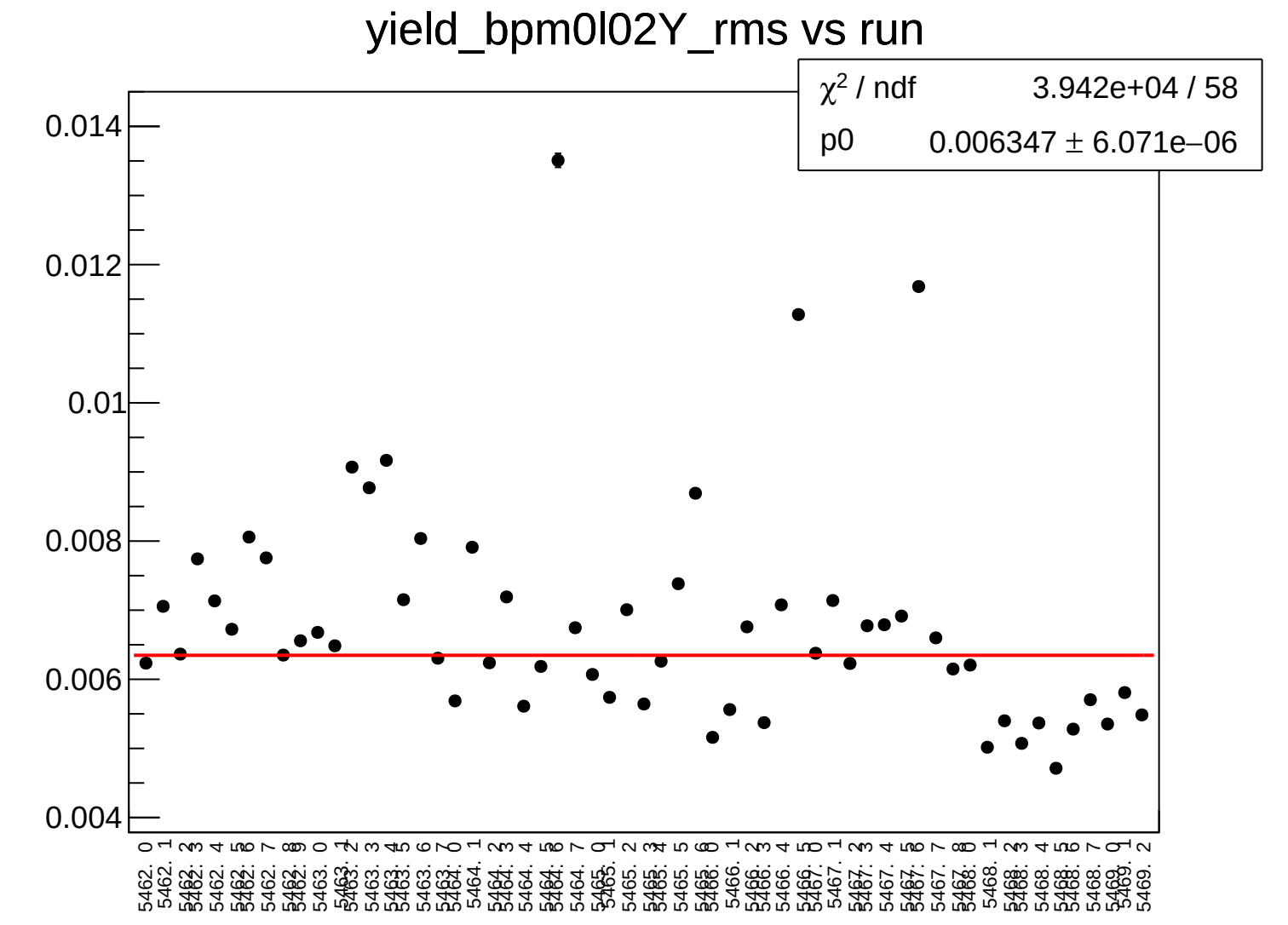

yield_bpm0l02X_mean vs run
χ² / ndf 1.08e+06 / 58
p0 1.335 ± 1.961e−05
pull
Entries 59
Mean −1006
Std Dev 1039

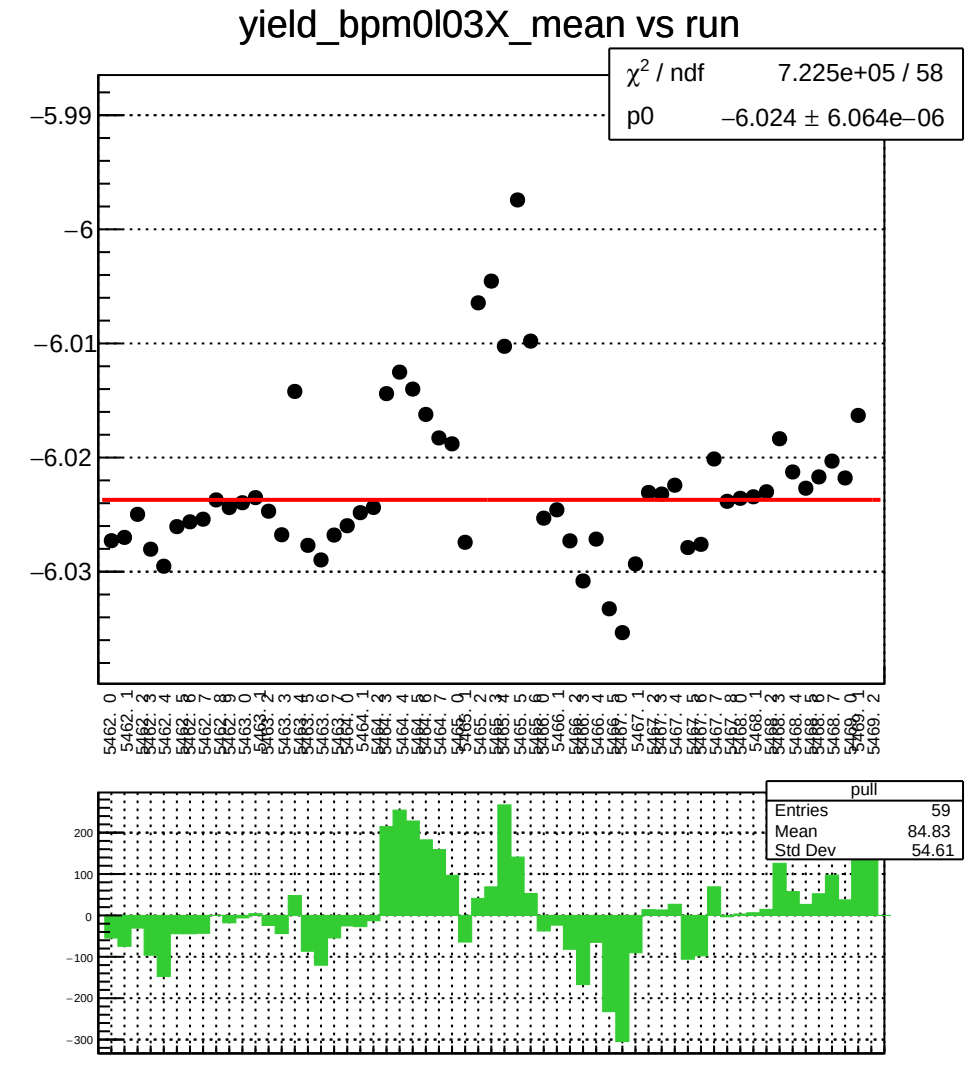

pull1D
Entries 59
Mean 4.483
Std Dev 0

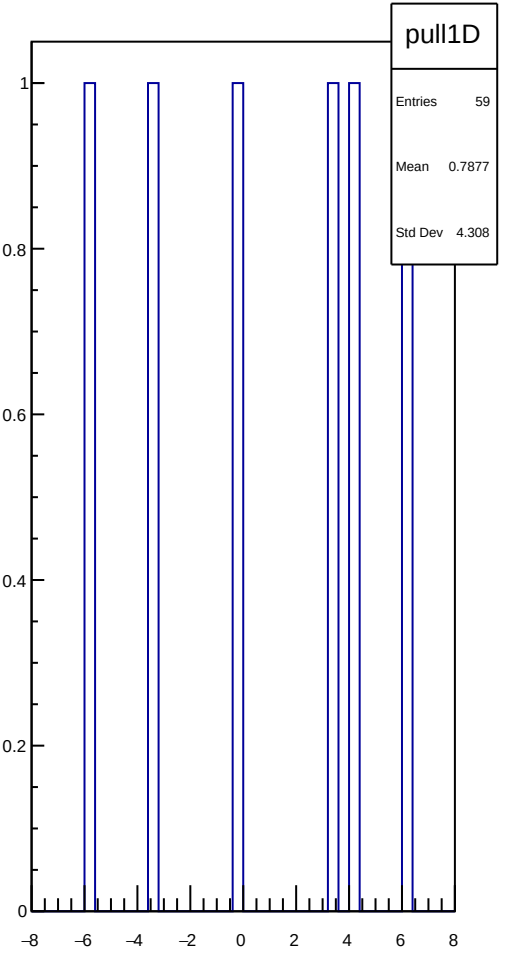

yield_bpm0l02X_rms vs run
χ² / ndf 1.33e+04 / 58
p0 0.01467 ± 1.386e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

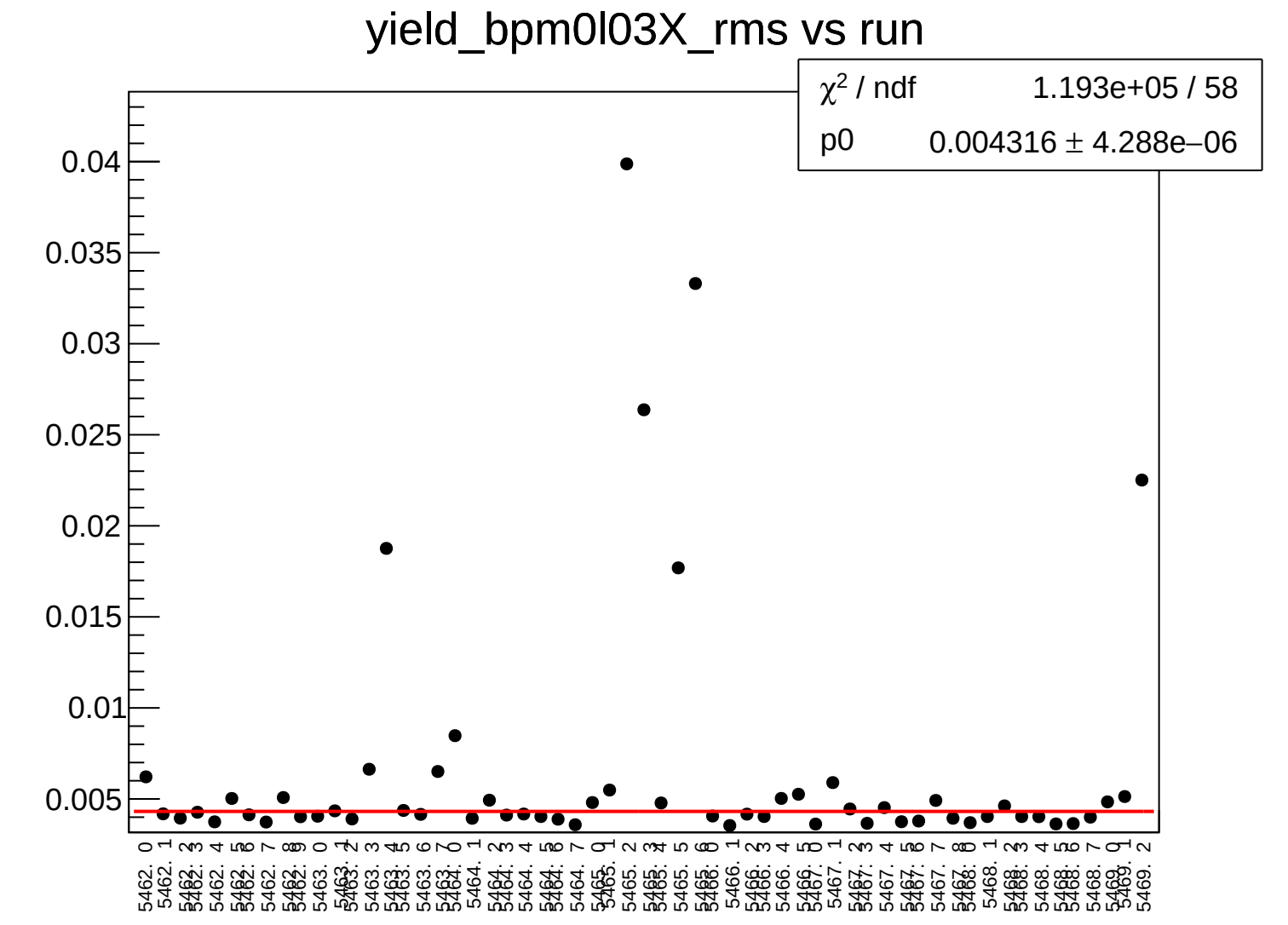

yield_bpm0l02Y_mean vs run
χ² / ndf 8.858e+06 / 58
p0 0.2805 ± 8.586e−06
0.32
0.3
0.28
0.26
0.24
pull
Entries 59
Mean −215.8
Std Dev 244.5
600
400
200
0
−200
−400
−600

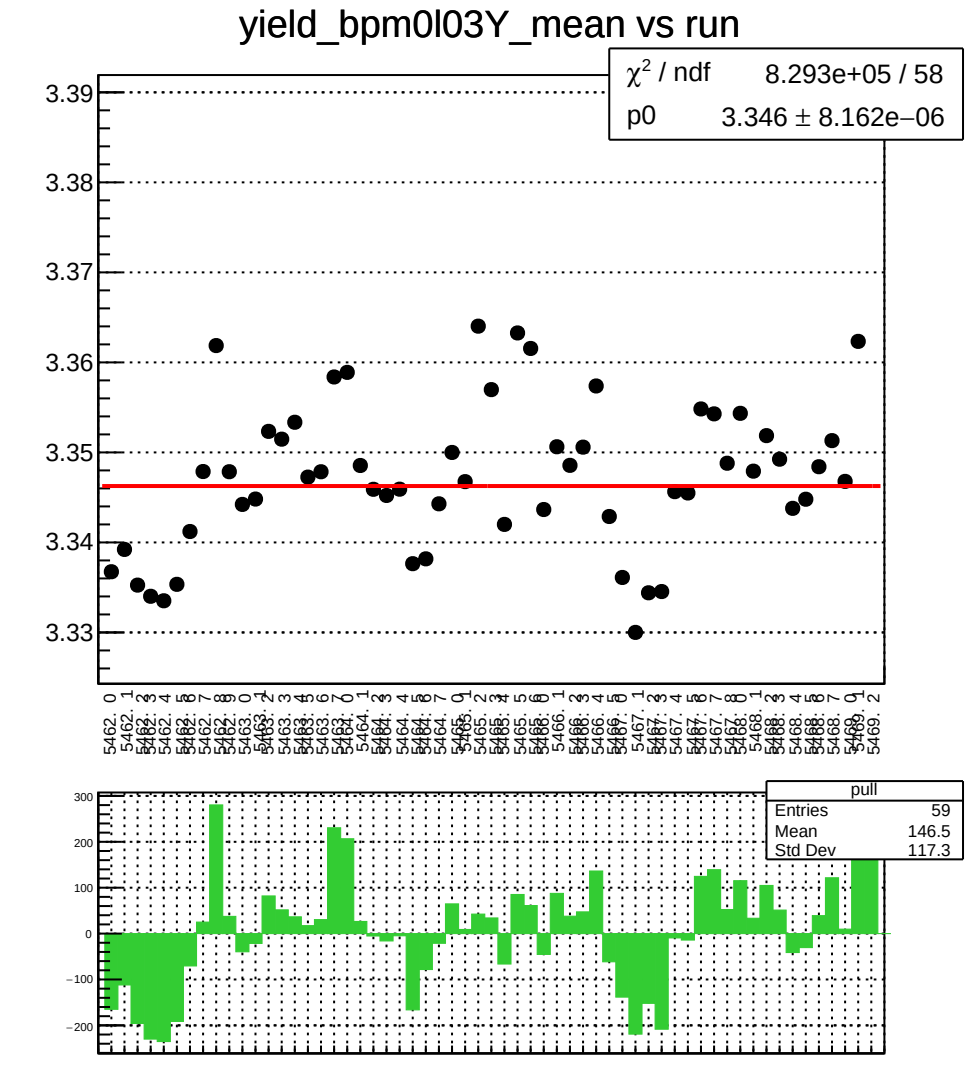

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

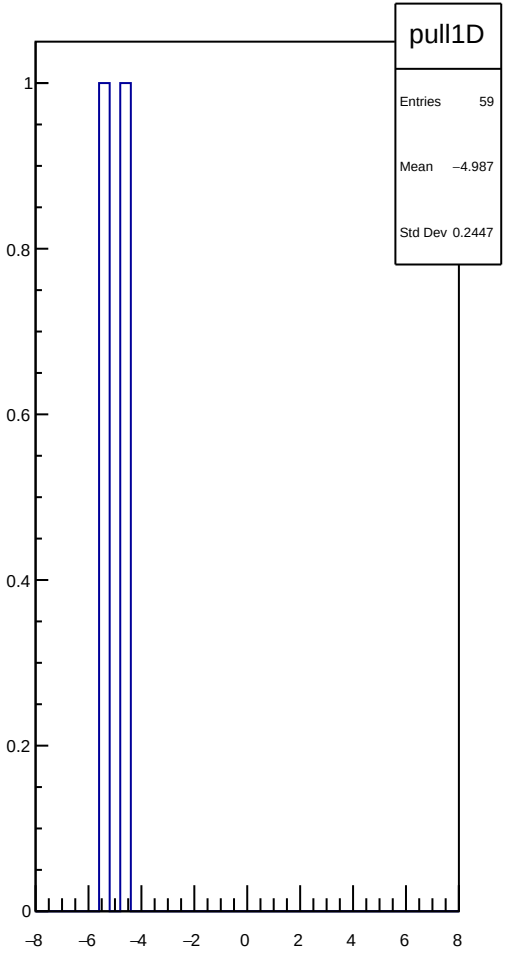

yield_bpm0l02Y_rms vs run
χ² / ndf 3.942e+04 / 58
p0 0.006347 ± 6.071e−06
0.014
0.012
0.01
0.008
0.006
0.004

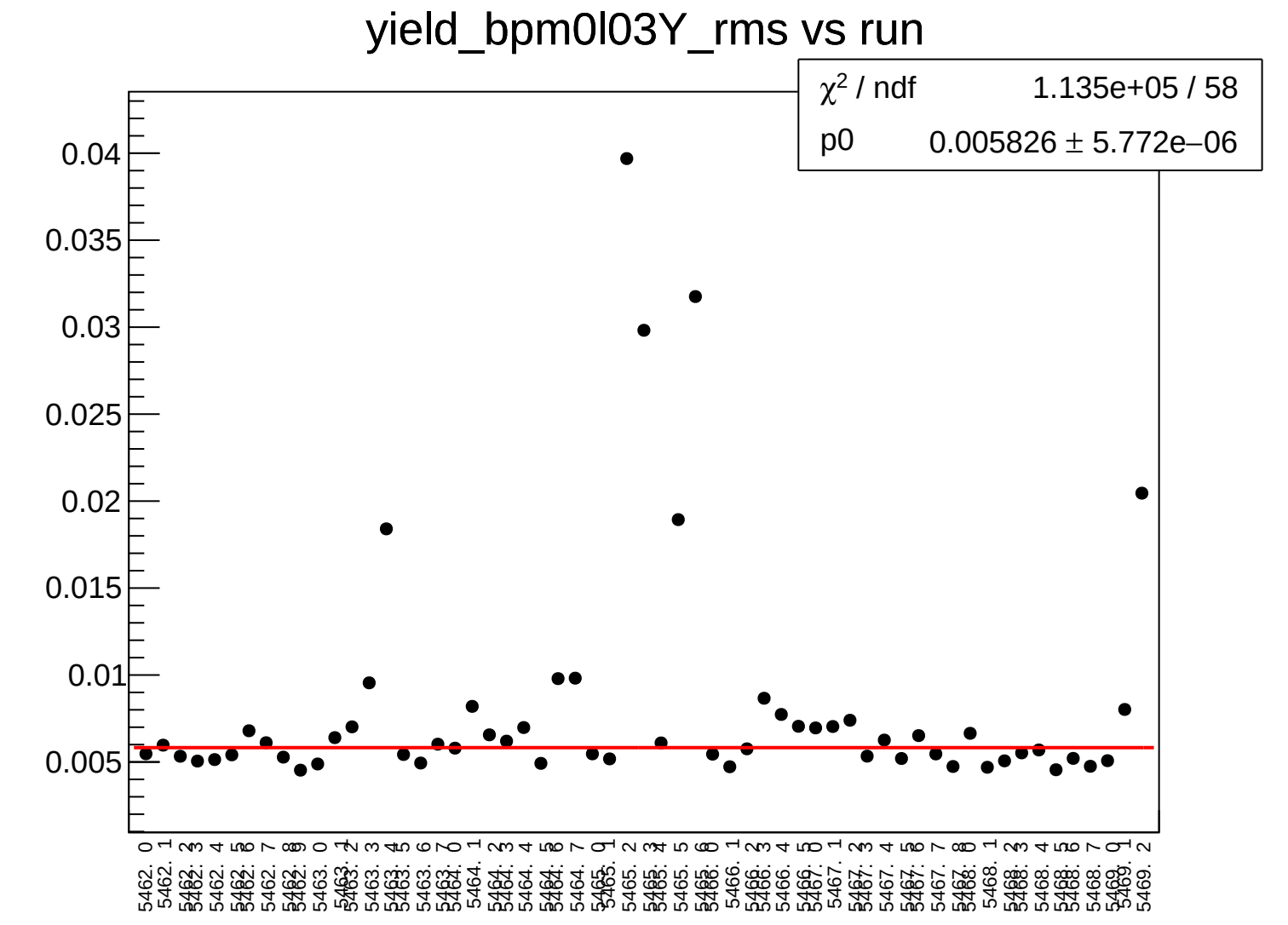

yield_bpm0l03X_mean vs run
χ² / ndf 7.225e+05 / 58
p0 −6.024 ± 6.064e−06
−5.99
−6
−6.01
−6.02
−6.03
pull
Entries 59
Mean 84.83
Std Dev 54.61
200
100
0
−100
−200
−300

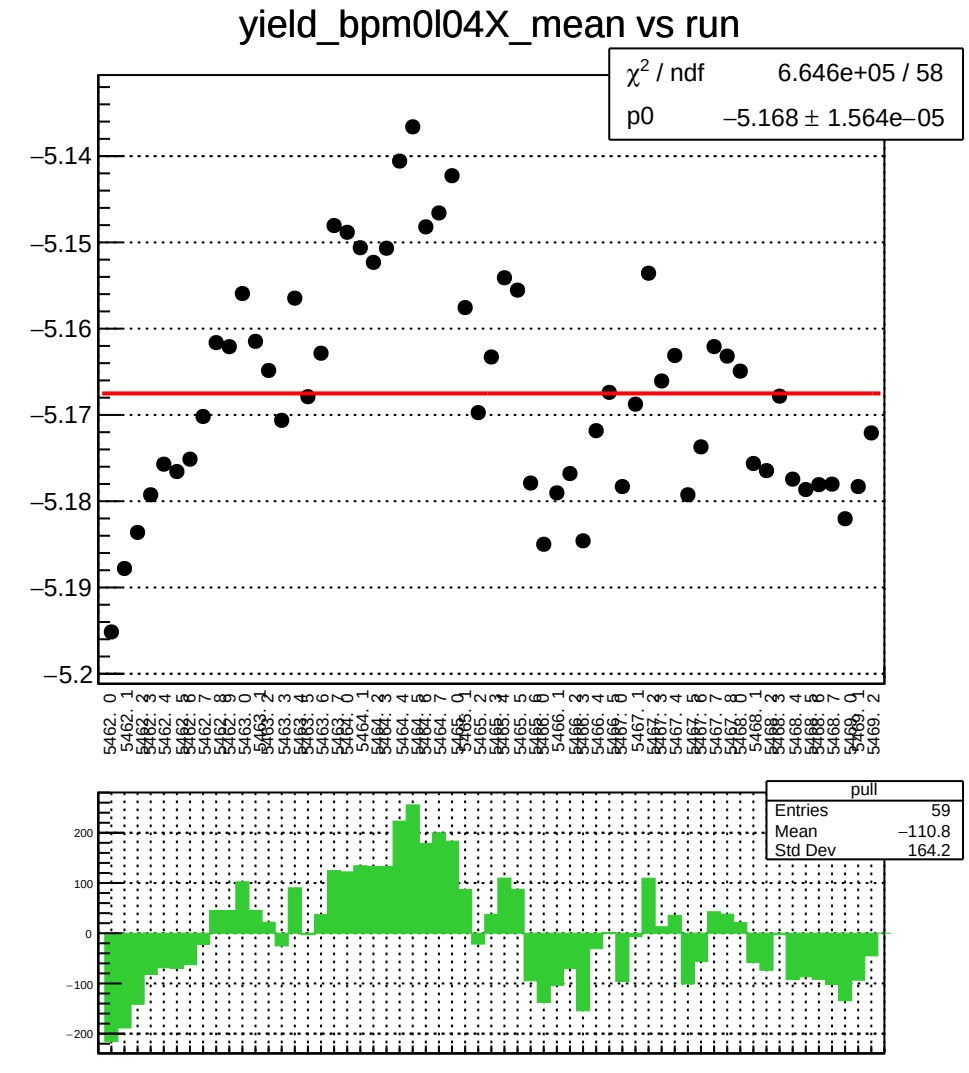

pull1D
Entries 59
Mean 0.7877
Std Dev 4.308
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

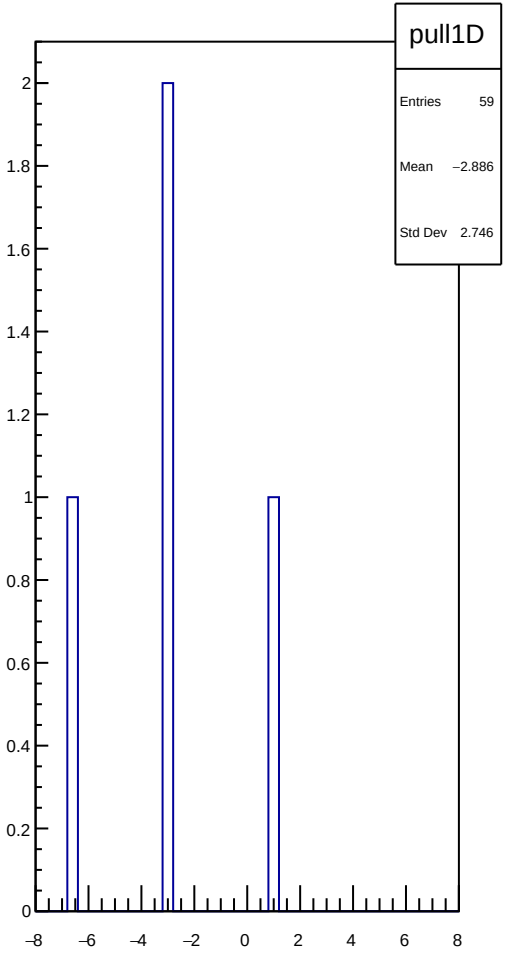

yield_bpm0l03X_rms vs run
χ² / ndf 1.193e+05 / 58
p0 0.004316 ± 4.288e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

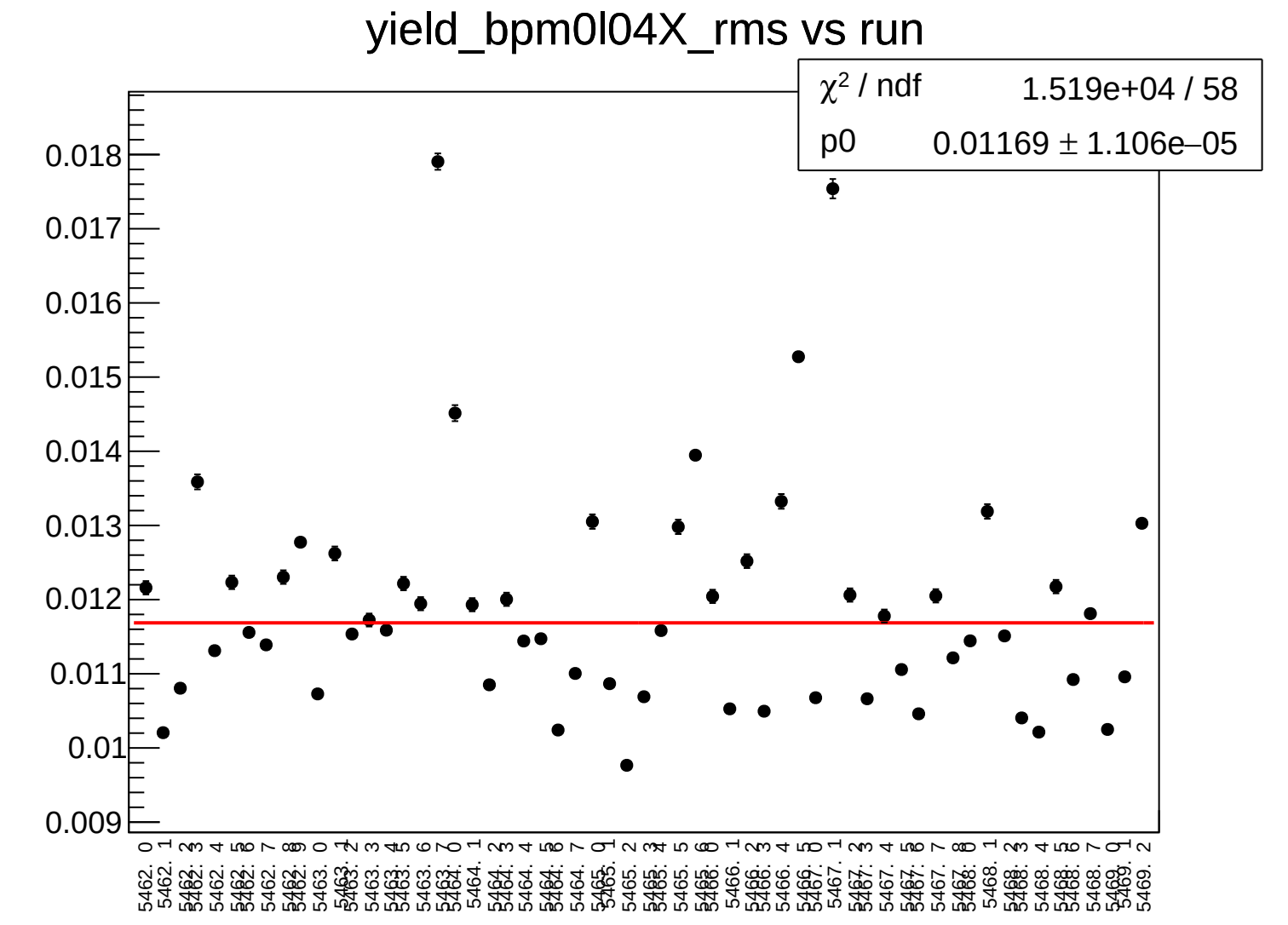

yield_bpm0l03Y_mean vs run
χ² / ndf 8.293e+05 / 58
p0 3.346 ± 8.162e−06
3.39
3.38
3.37
3.36
3.35
3.34
3.33
pull
Entries 59
Mean 146.5
Std Dev 117.3
300
200
100
0
−100
−200

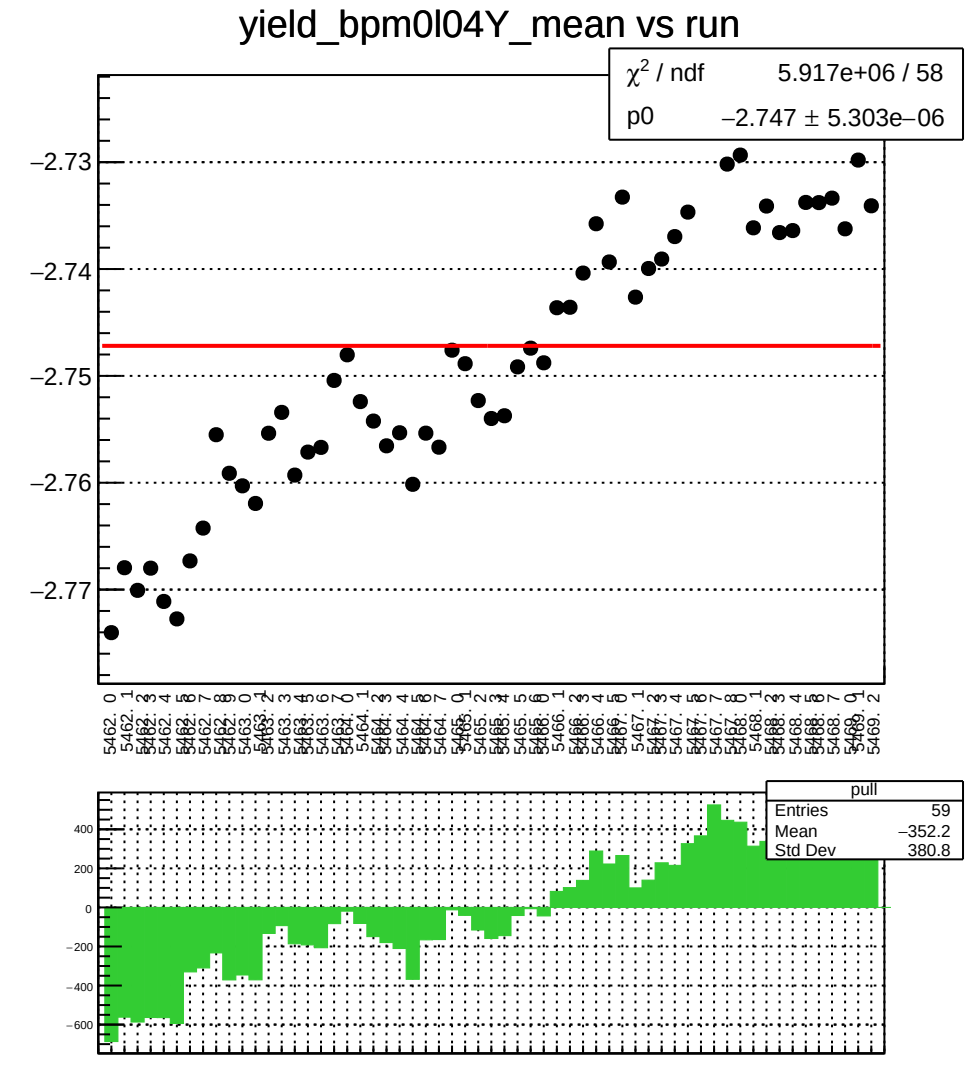

pull1D
Entries 59
Mean −4.987
Std Dev 0.2447
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

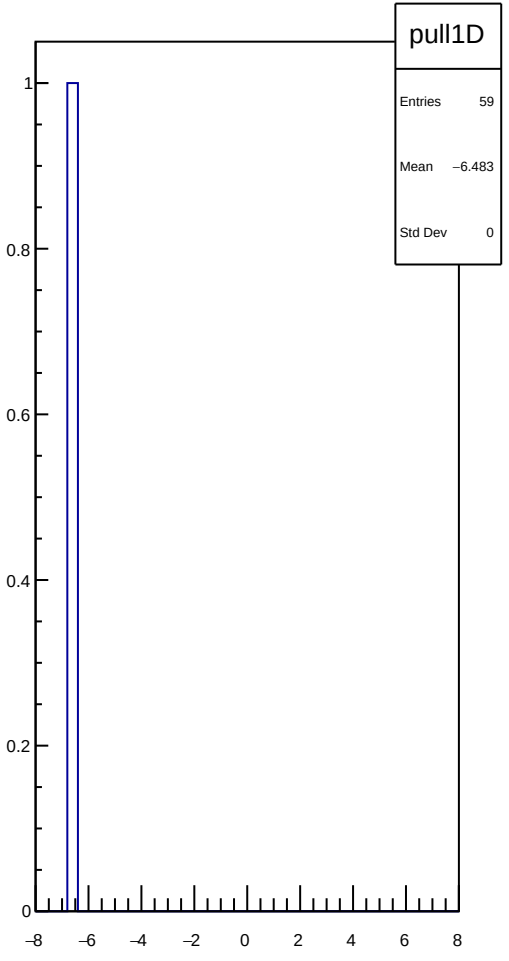

yield_bpm0l03Y_rms vs run
χ² / ndf 1.135e+05 / 58
p0 0.005826 ± 5.772e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

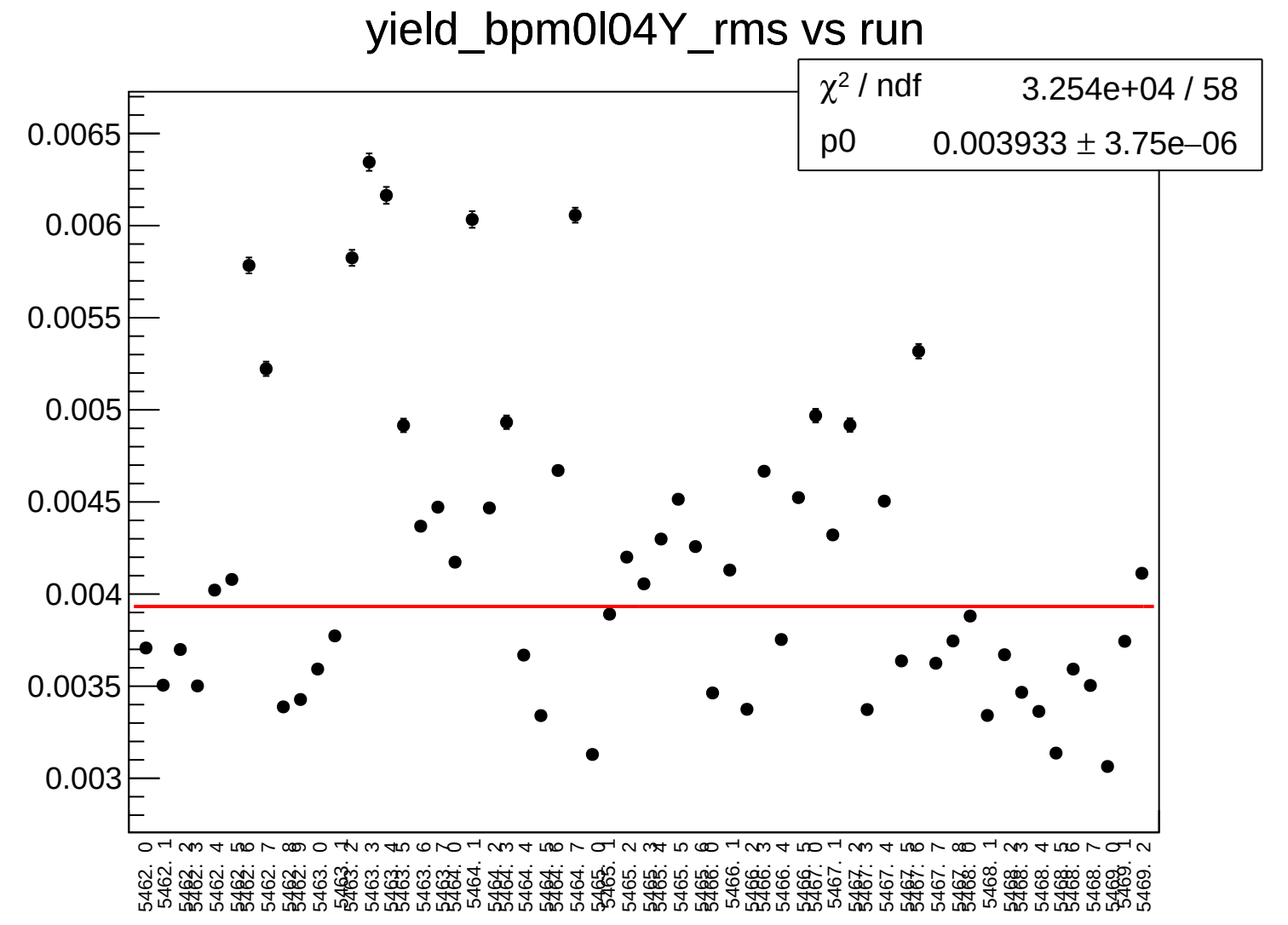

yield_bpm0l04X_mean vs run
χ² / ndf 6.646e+05 / 58
p0 −5.168 ± 1.564e−05
−5.14
−5.15
−5.16
−5.17
−5.18
−5.19
−5.2
pull
Entries 59
Mean −110.8
Std Dev 164.2
200
100
0
−100
−200

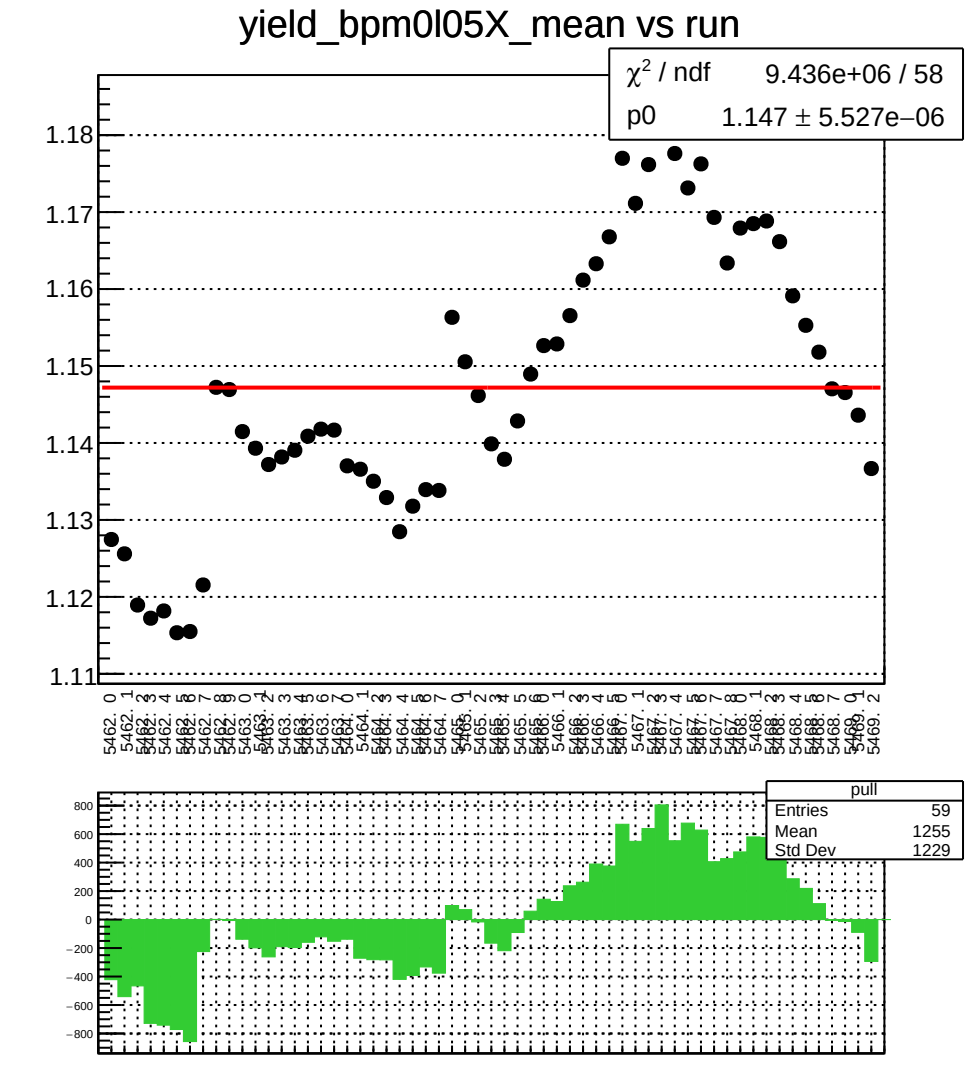

pull1D
Entries 59
Mean −2.886
Std Dev 2.746
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

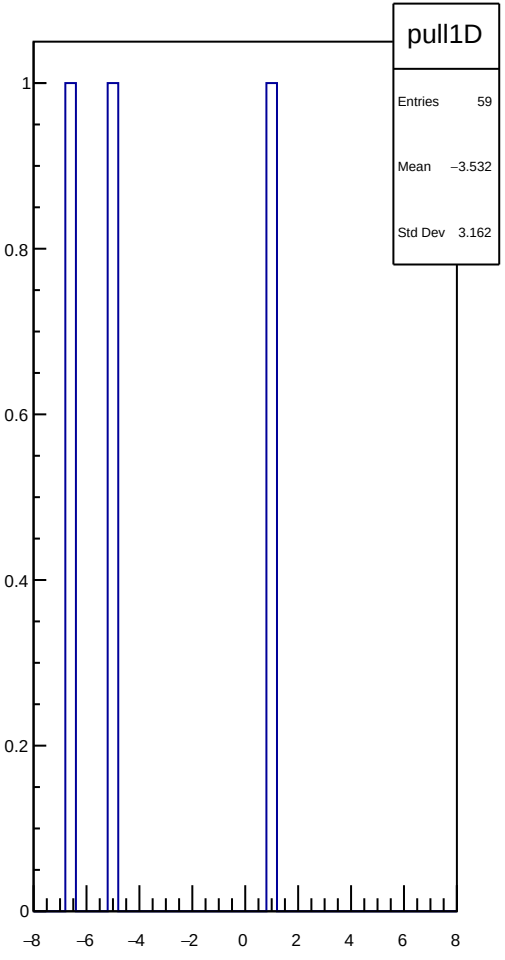

yield_bpm0l04X_rms vs run
χ² / ndf 1.519e+04 / 58
p0 0.01169 ± 1.106e–05
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011
0.01
0.009

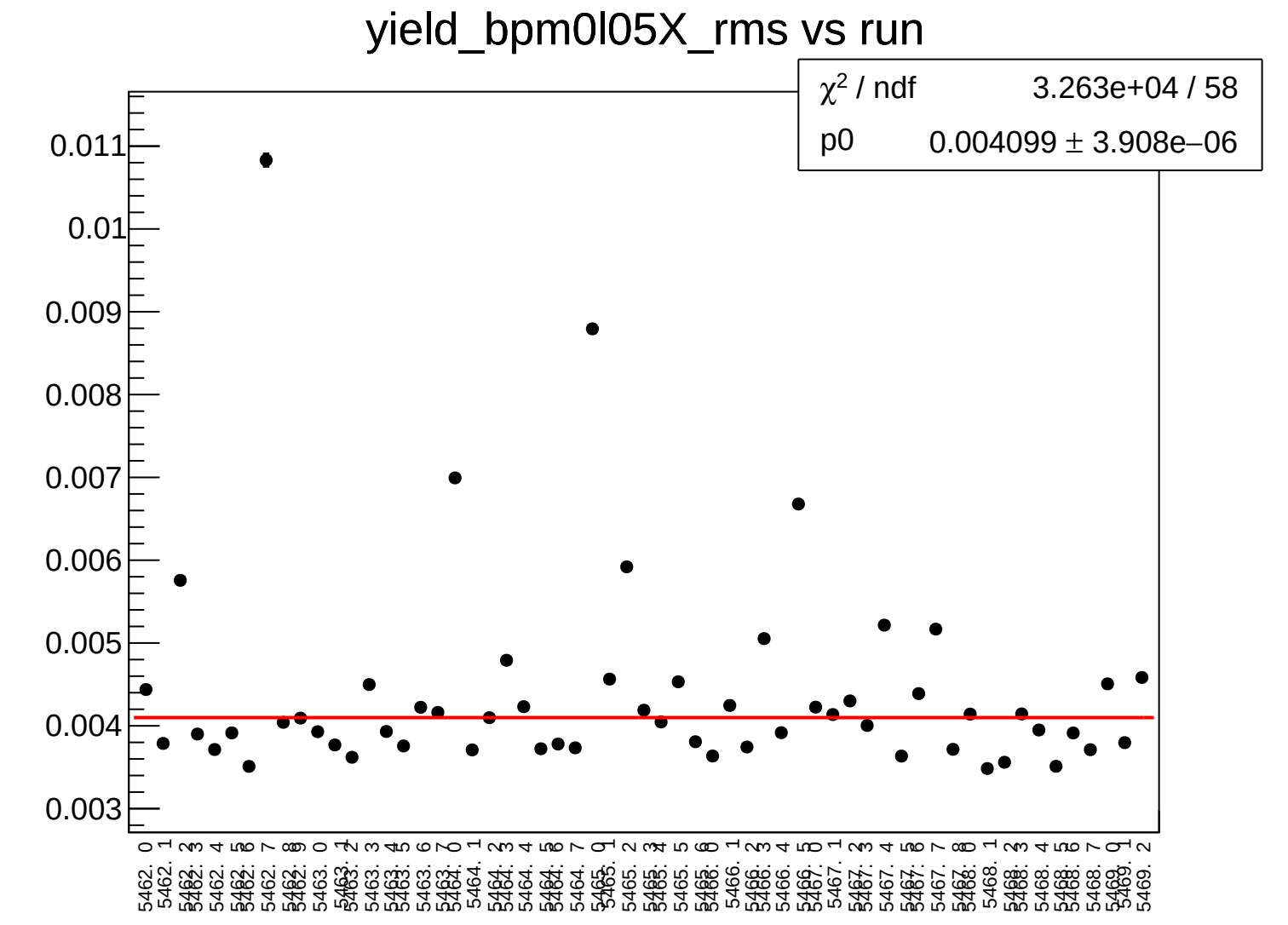

yield_bpm0l04Y_mean vs run
χ² / ndf 5.917e+06 / 58
p0 −2.747 ± 5.303e−06
−2.73
−2.74
−2.75
−2.76
−2.77
pull
Entries 59
Mean −352.2
Std Dev 380.8
400
200
0
−200
−400
−600

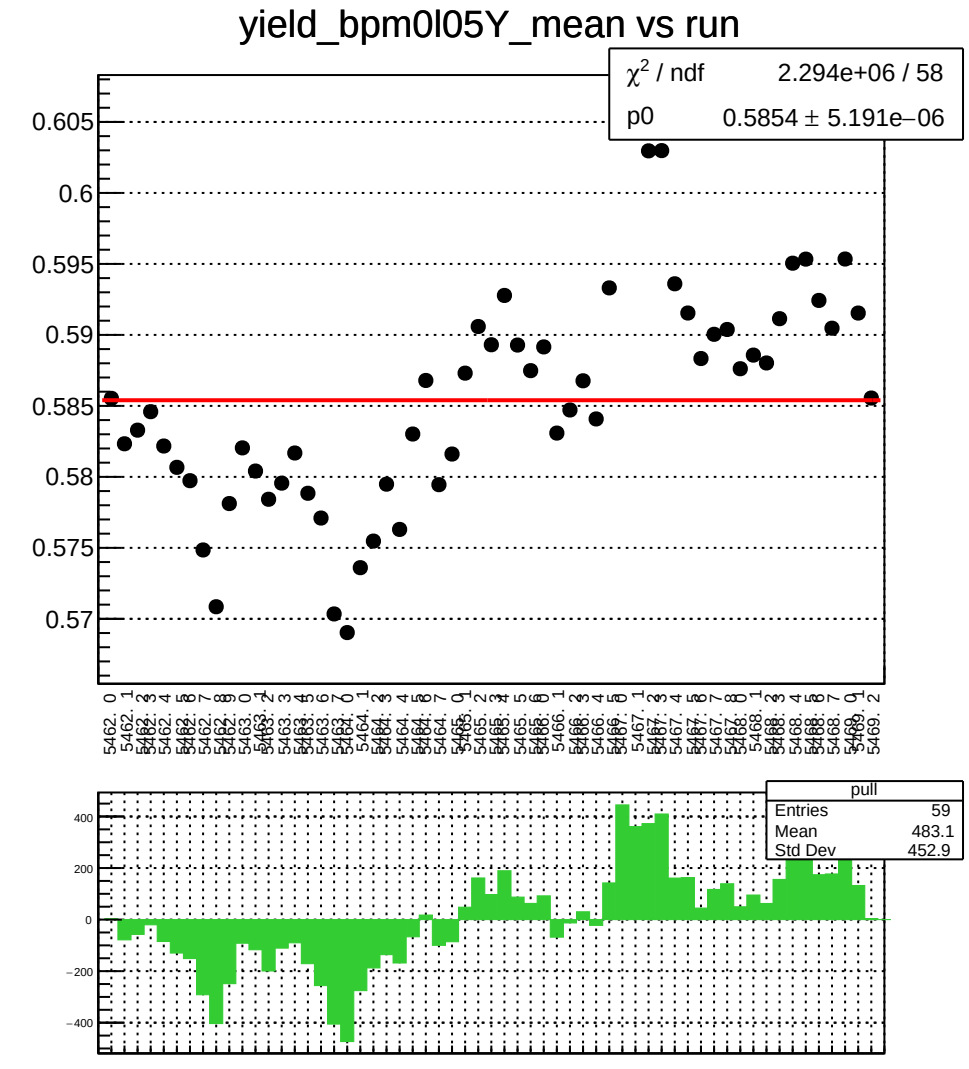

pull1D
Entries 59
Mean −6.483
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

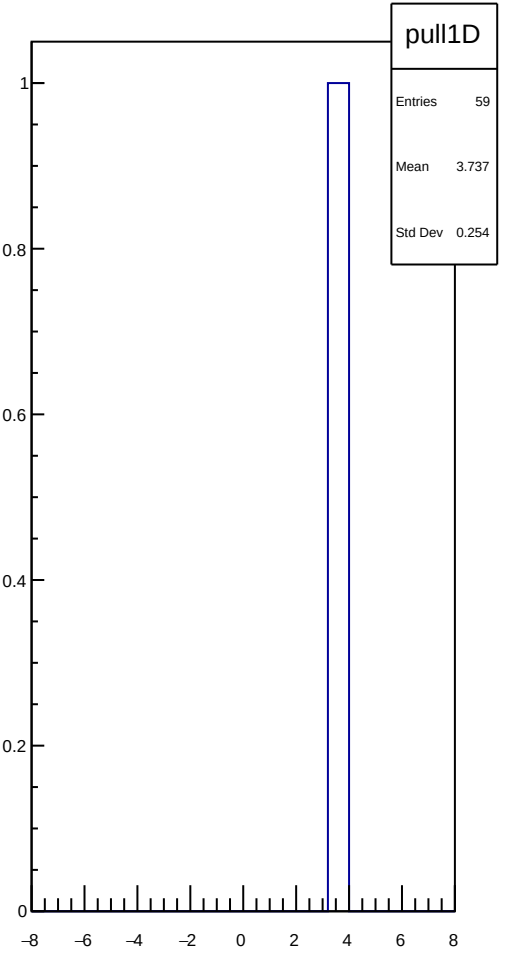

yield_bpm0l04Y_rms vs run
χ² / ndf 3.254e+04 / 58
p0 0.003933 ± 3.75e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

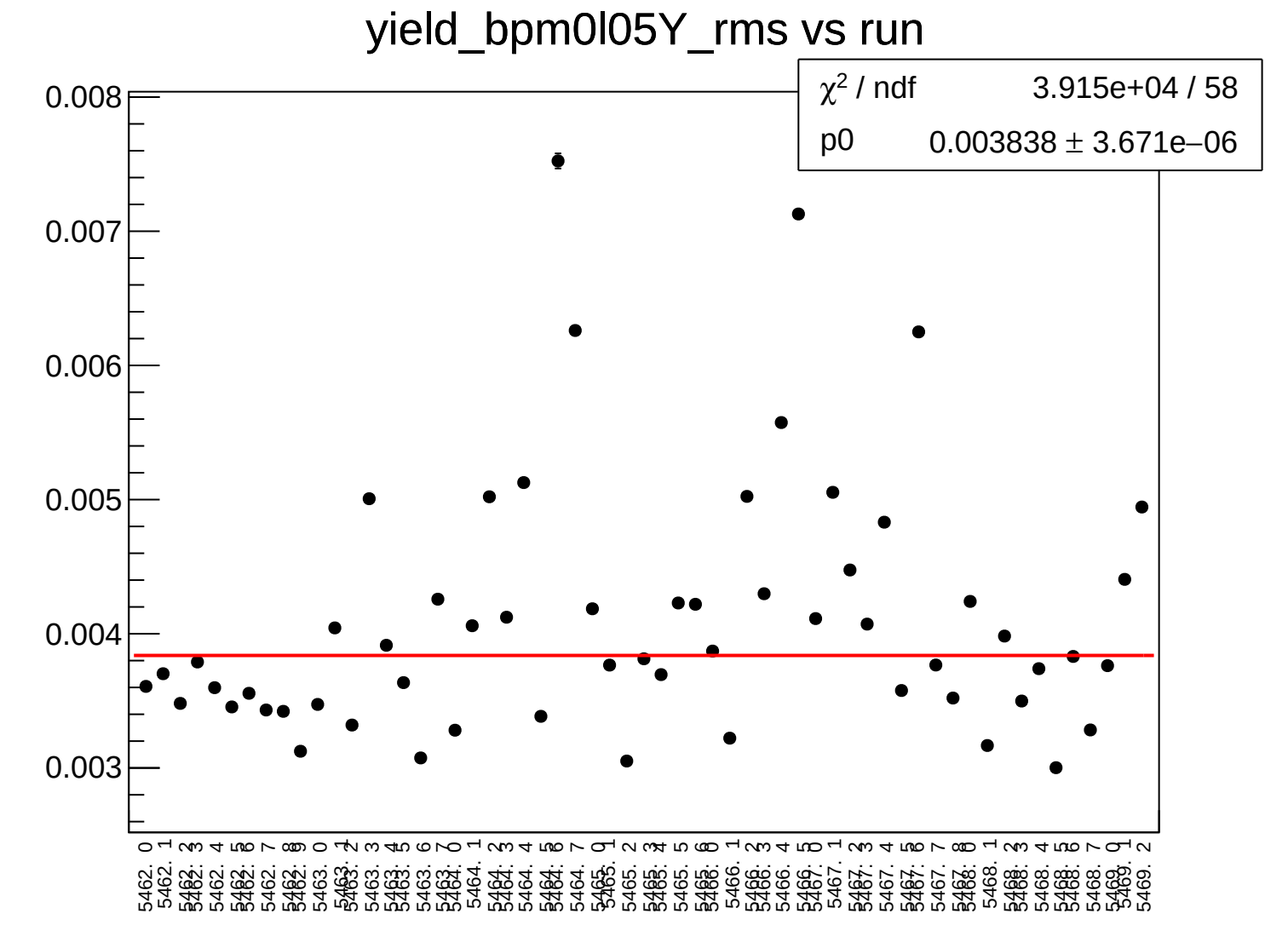

yield_bpm0l05X_mean vs run
χ² / ndf 9.436e+06 / 58
p0 1.147 ± 5.527e−06
pull
Entries 59
Mean 1255
Std Dev 1229

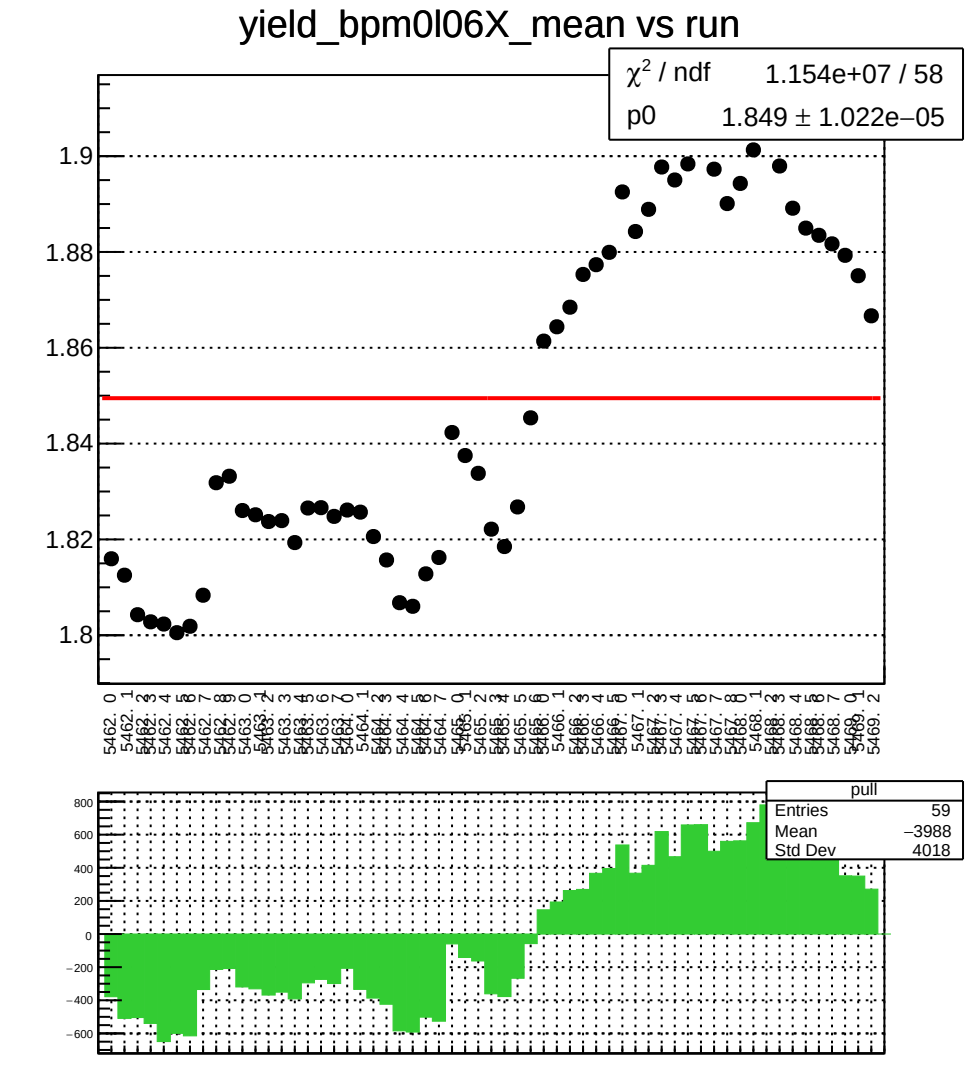

pull1D
Entries 59
Mean −3.532
Std Dev 3.162

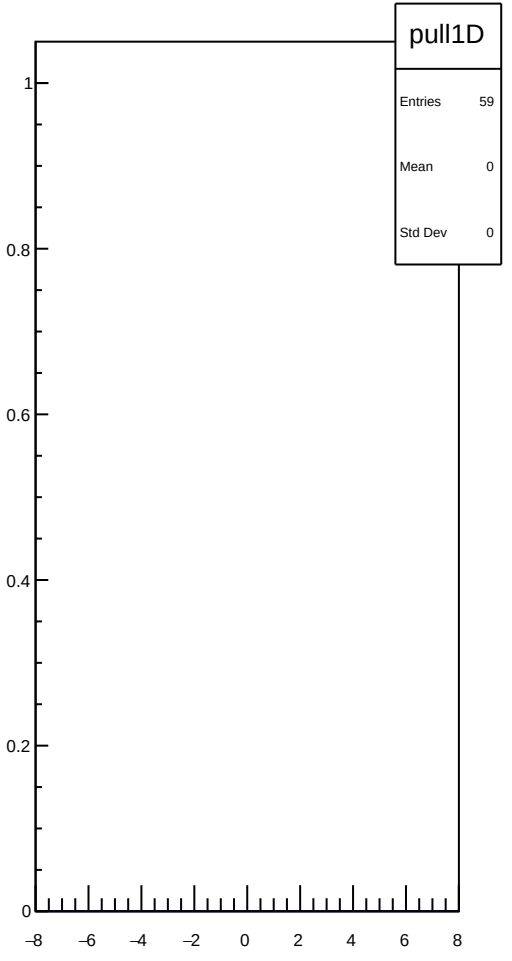

yield_bpm0l05X_rms vs run
χ² / ndf 3.263e+04 / 58
p0 0.004099 ± 3.908e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

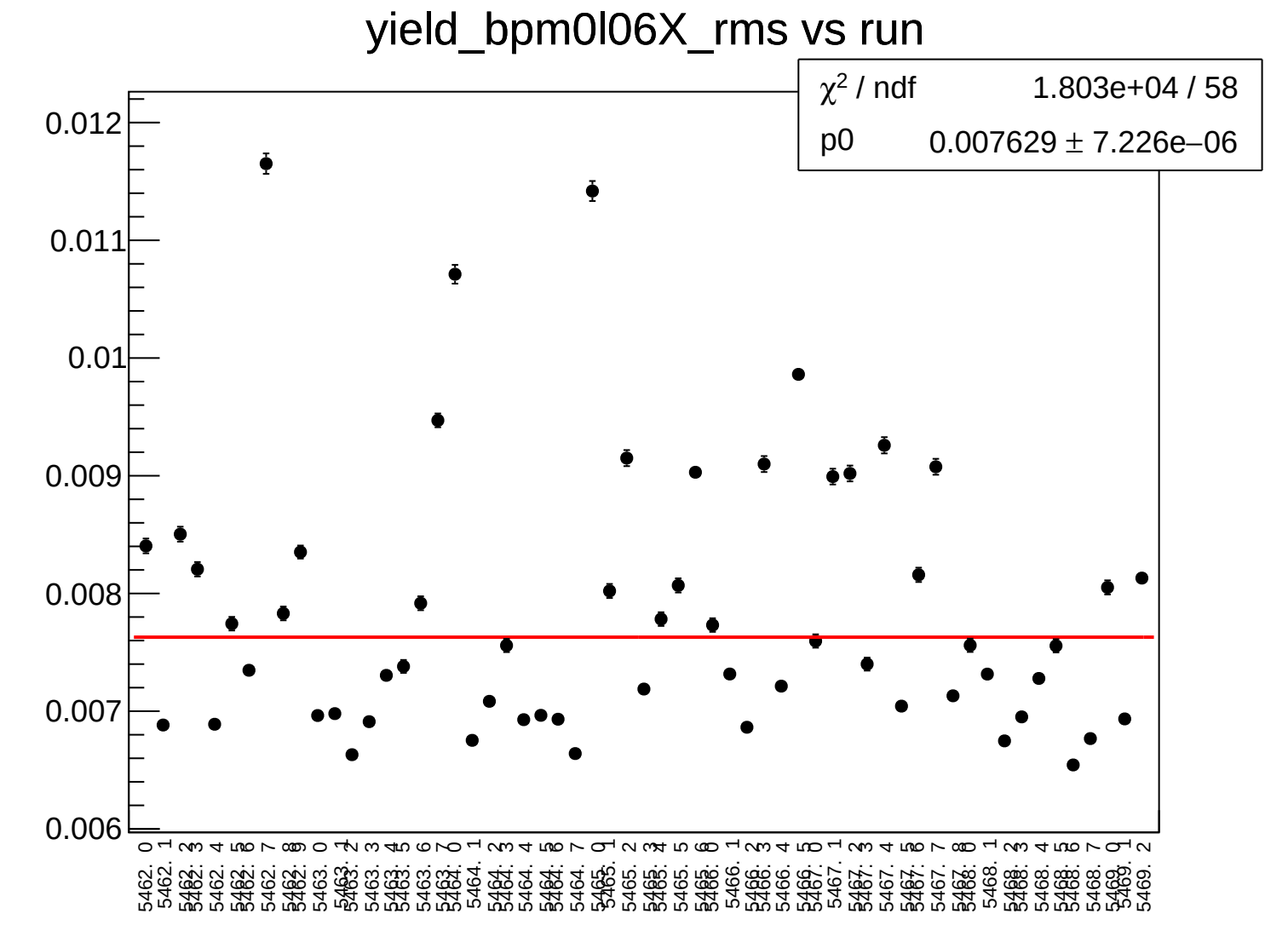

yield_bpm0l05Y_mean vs run
χ² / ndf 2.294e+06 / 58
p0 0.5854 ± 5.191e−06
0.605
0.6
0.595
0.59
0.585
0.58
0.575
0.57
pull
Entries 59
Mean 483.1
Std Dev 452.9
400
200
0
−200
−400

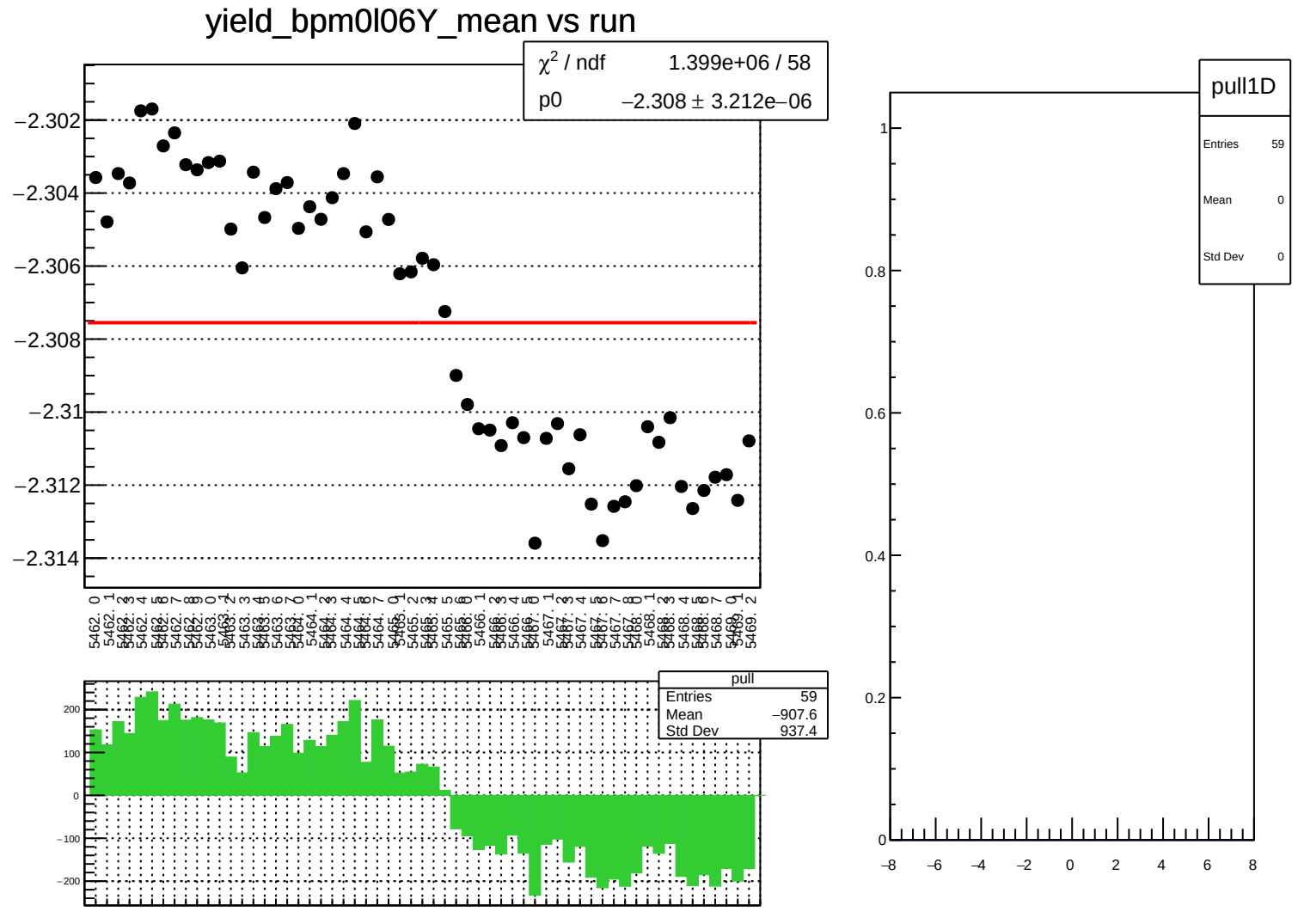

pull1D
Entries 59
Mean 3.737
Std Dev 0.254
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

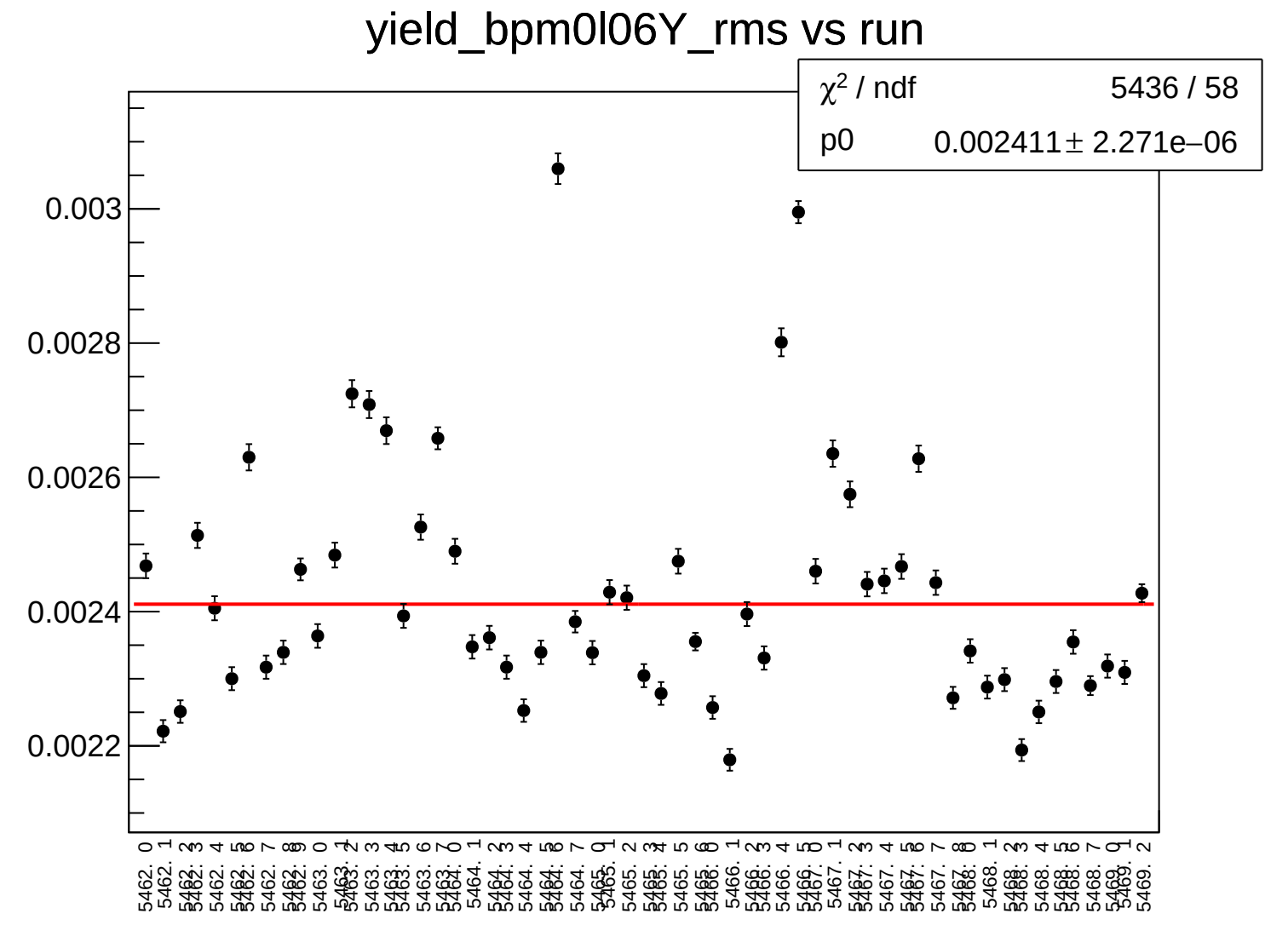

yield_bpm0l05Y_rms vs run
χ² / ndf 3.915e+04 / 58
p0 0.003838 ± 3.671e−06
0.008
0.007
0.006
0.005
0.004
0.003

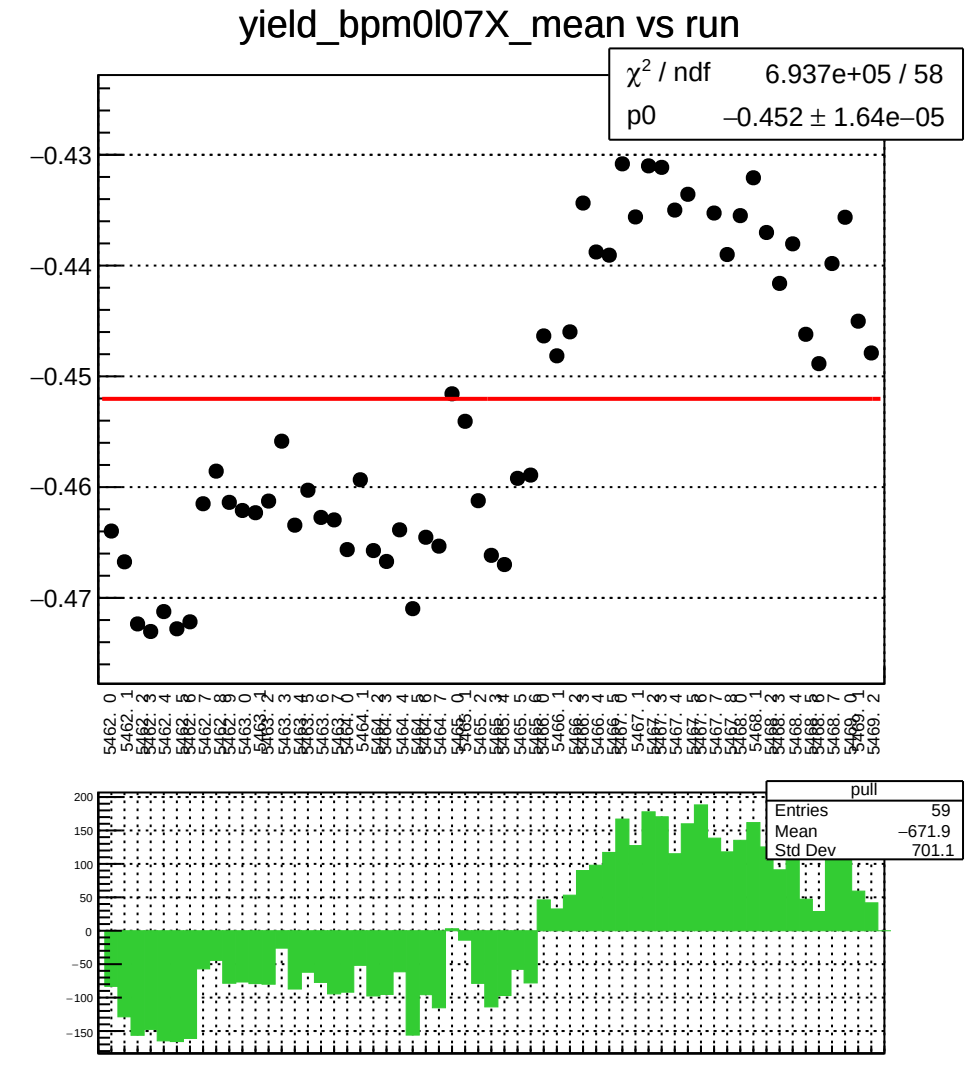

yield_bpm0l06X_mean vs run
χ² / ndf 1.154e+07 / 58
p0 1.849 ± 1.022e−05
pull
Entries 59
Mean −3988
Std Dev 4018

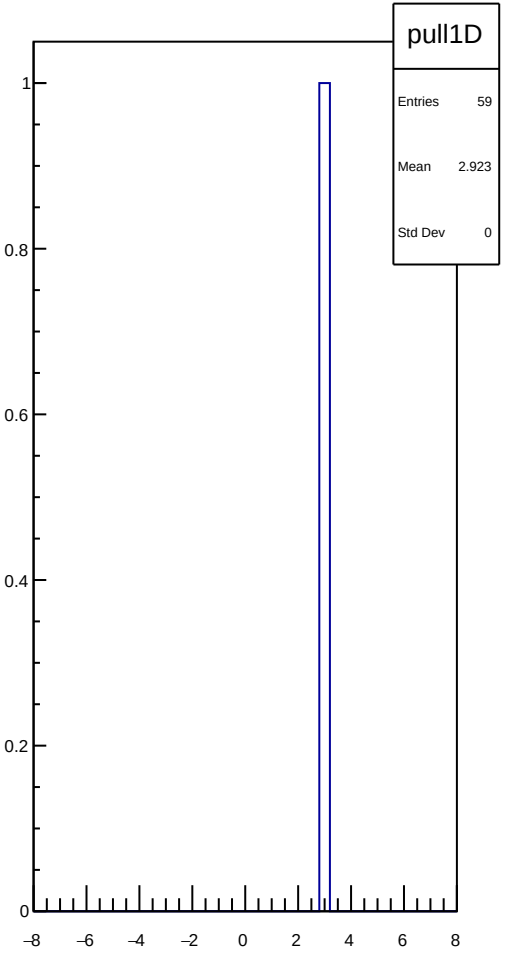

pull1D
Entries 59
Mean 0
Std Dev 0

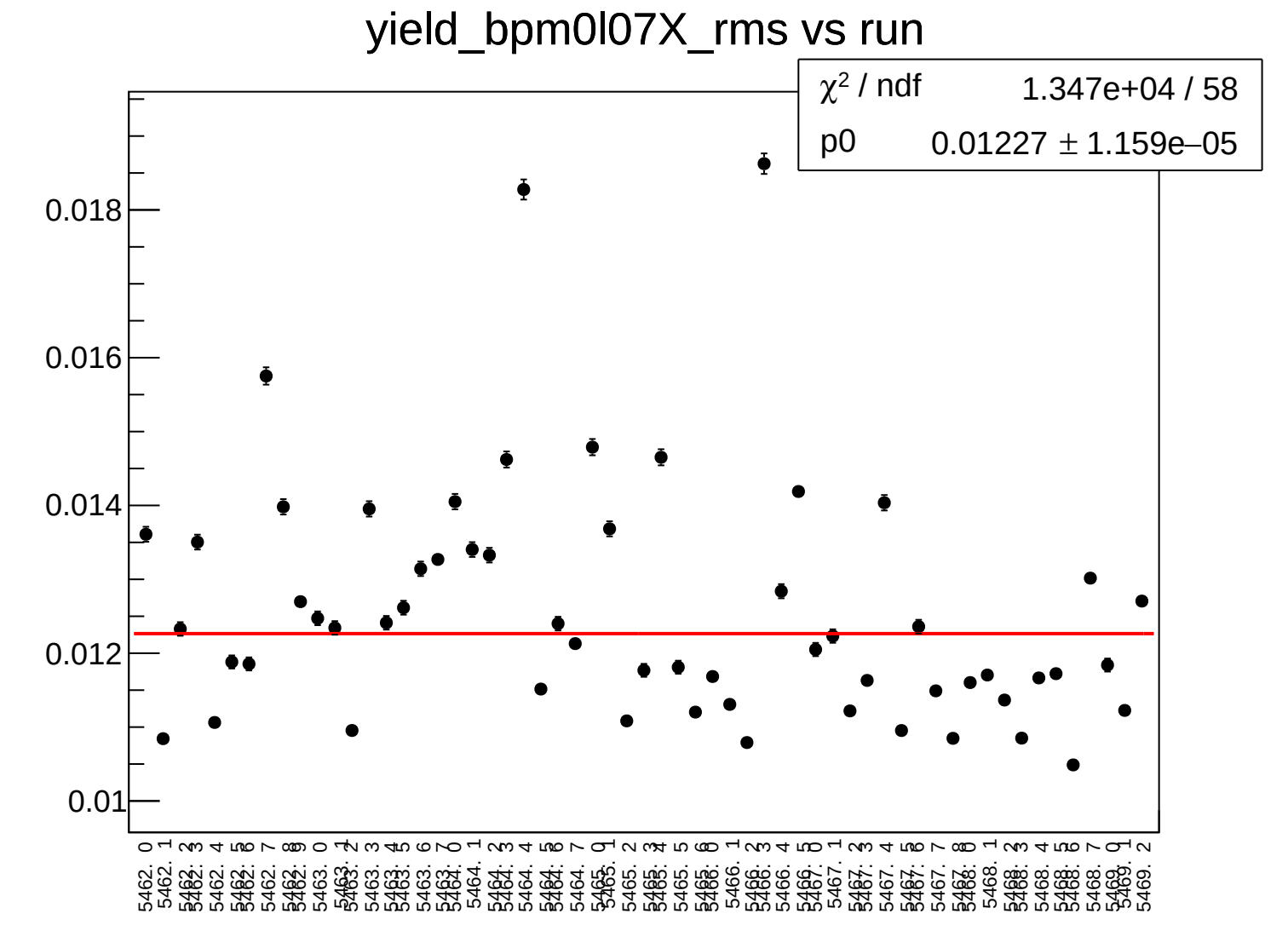

yield_bpm0l06X_rms vs run
χ² / ndf 1.803e+04 / 58
p0 0.007629 ± 7.226e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006

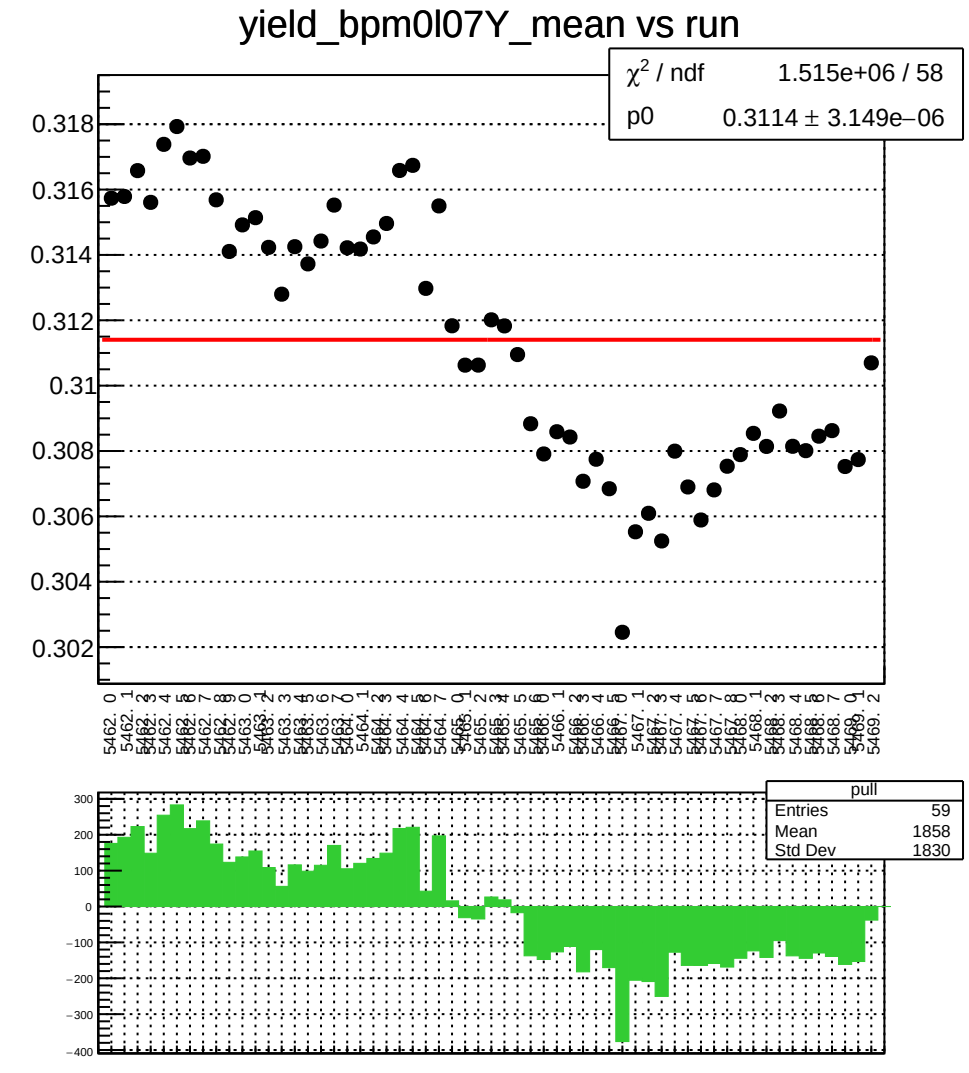

yield_bpm0l06Y_mean vs run
χ² / ndf 1.399e+06 / 58
p0 −2.308 ± 3.212e−06
−2.302
−2.304
−2.306
−2.308
−2.31
−2.312
−2.314
pull
Entries 59
Mean −907.6
Std Dev 937.4
200
100
0
−100
−200
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

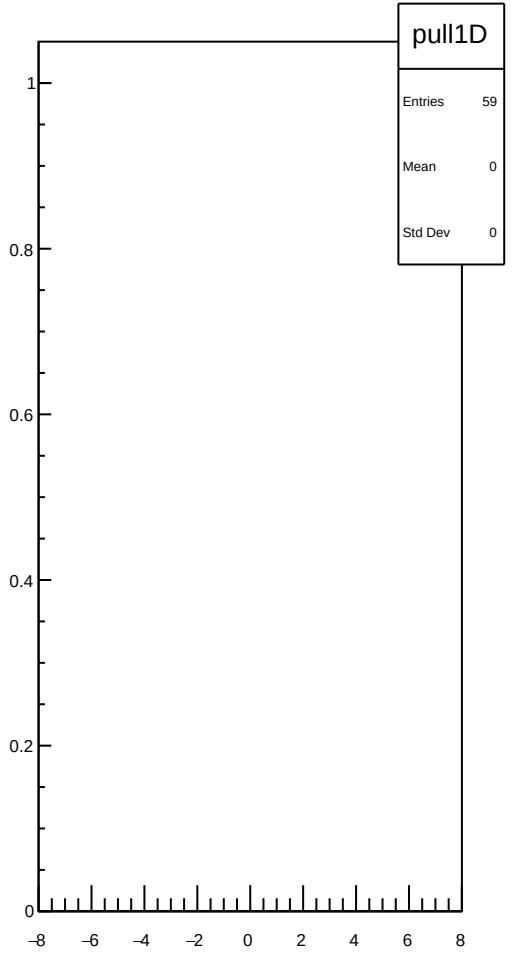

yield_bpm0l06Y_rms vs run
χ² / ndf 5436 / 58
p0 0.002411 ± 2.271e−06
0.003
0.0028
0.0026
0.0024
0.0022

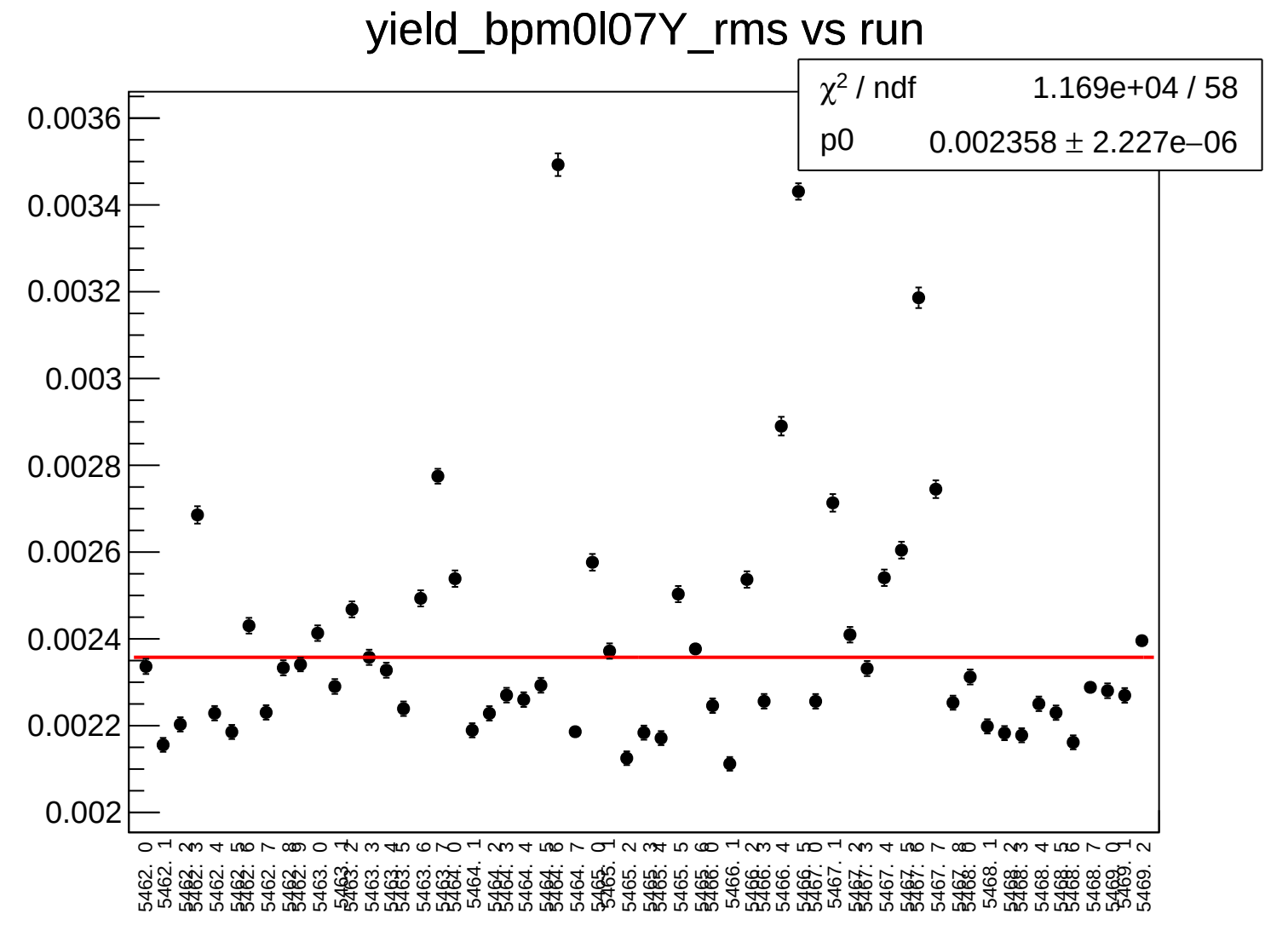

yield_bpm0l07X_mean vs run
χ² / ndf 6.937e+05 / 58
p0 –0.452 ± 1.64e–05
–0.43
–0.44
–0.45
–0.46
–0.47
pull
Entries 59
Mean –671.9
Std Dev 701.1
200
150
100
50
0
–50
–100
–150

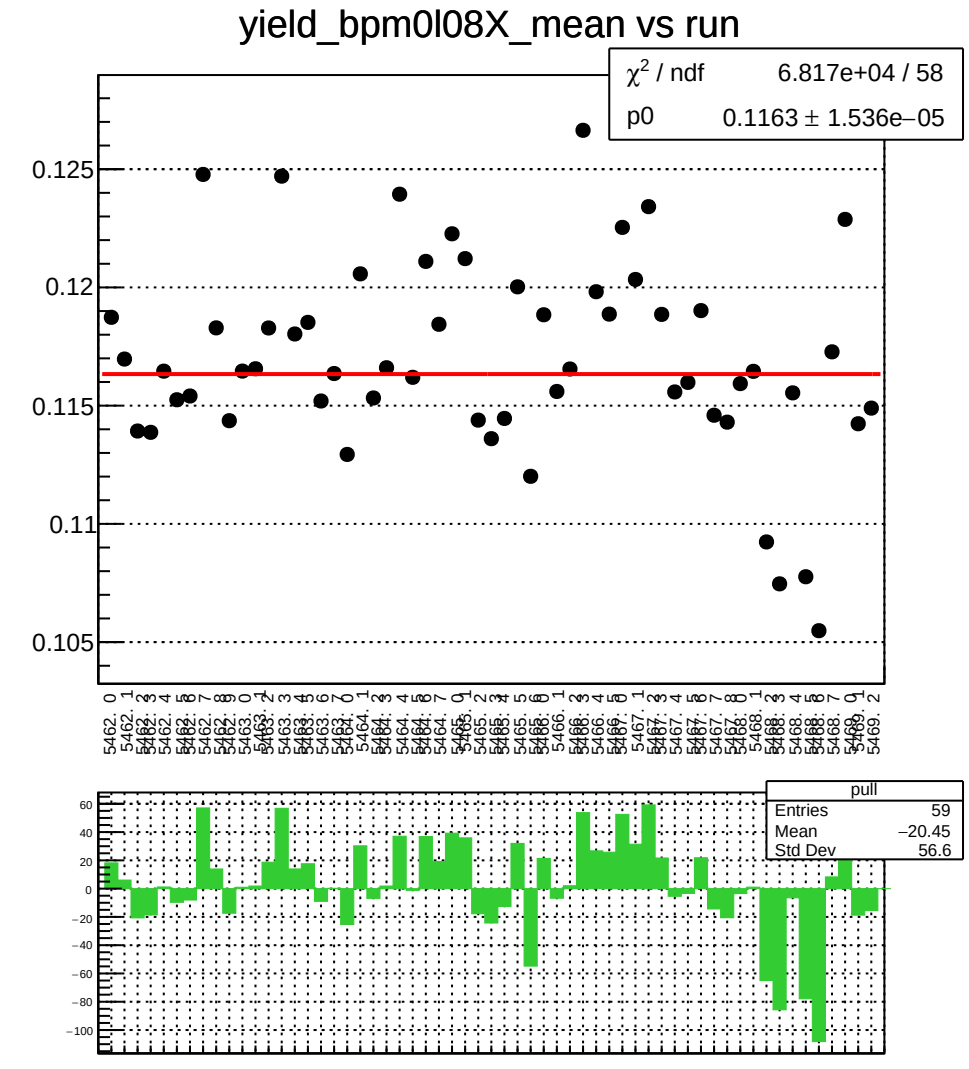

pull1D
Entries 59
Mean 2.923
Std Dev 0
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

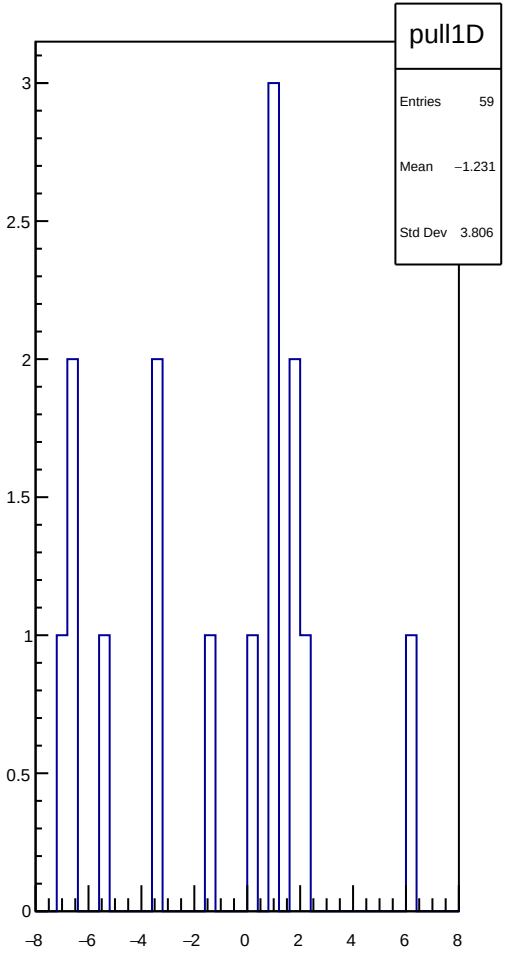

yield_bpm0l07X_rms vs run
χ² / ndf 1.347e+04 / 58
p0 0.01227 ± 1.159e–05
0.018
0.016
0.014
0.012
0.01

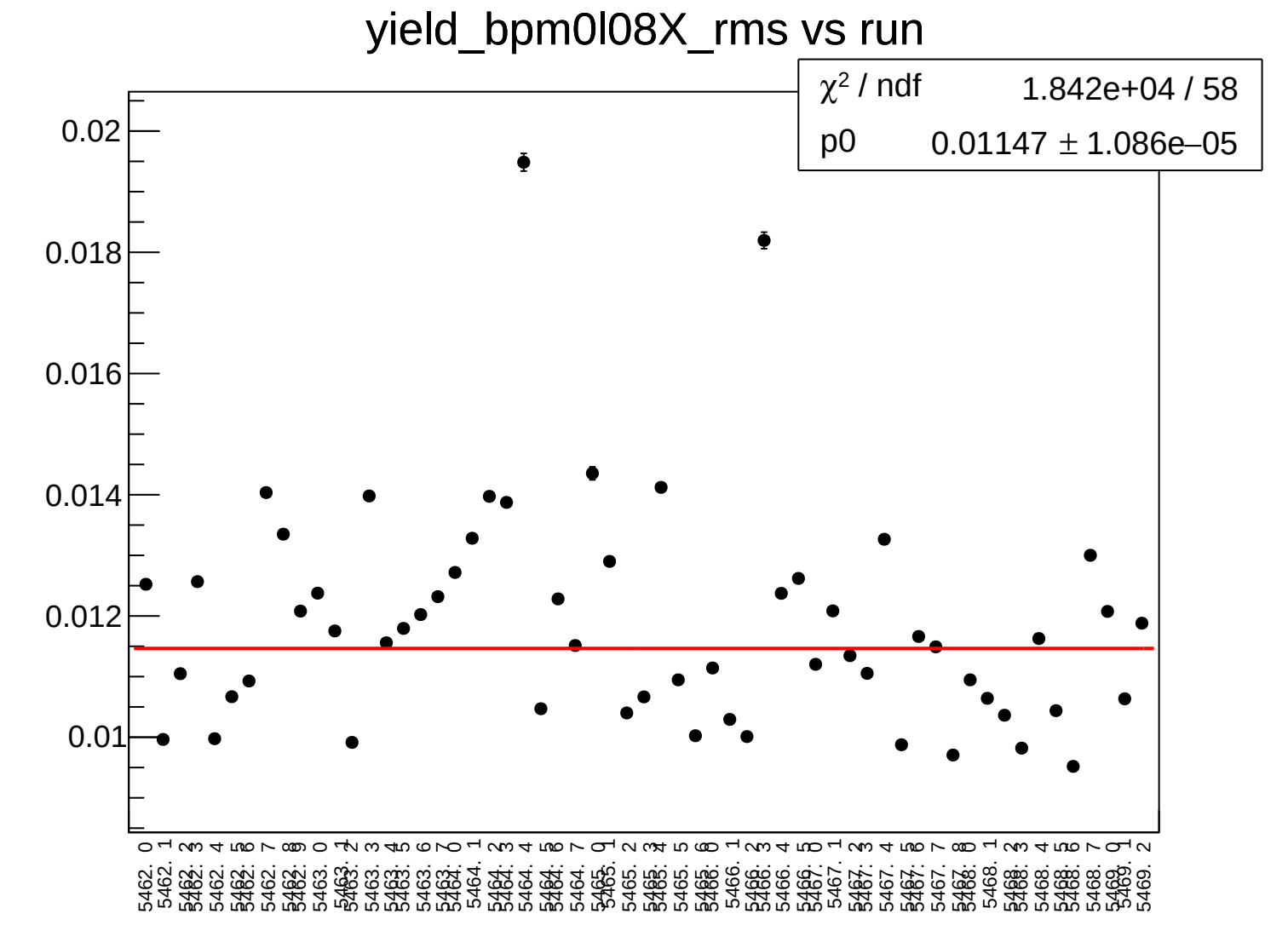

yield_bpm0l07Y_mean vs run
χ² / ndf 1.515e+06 / 58
p0 0.3114 ± 3.149e−06
0.318
0.316
0.314
0.312
0.31
0.308
0.306
0.304
0.302
pull
Entries 59
Mean 1858
Std Dev 1830
300
200
100
0
−100
−200
−300
−400

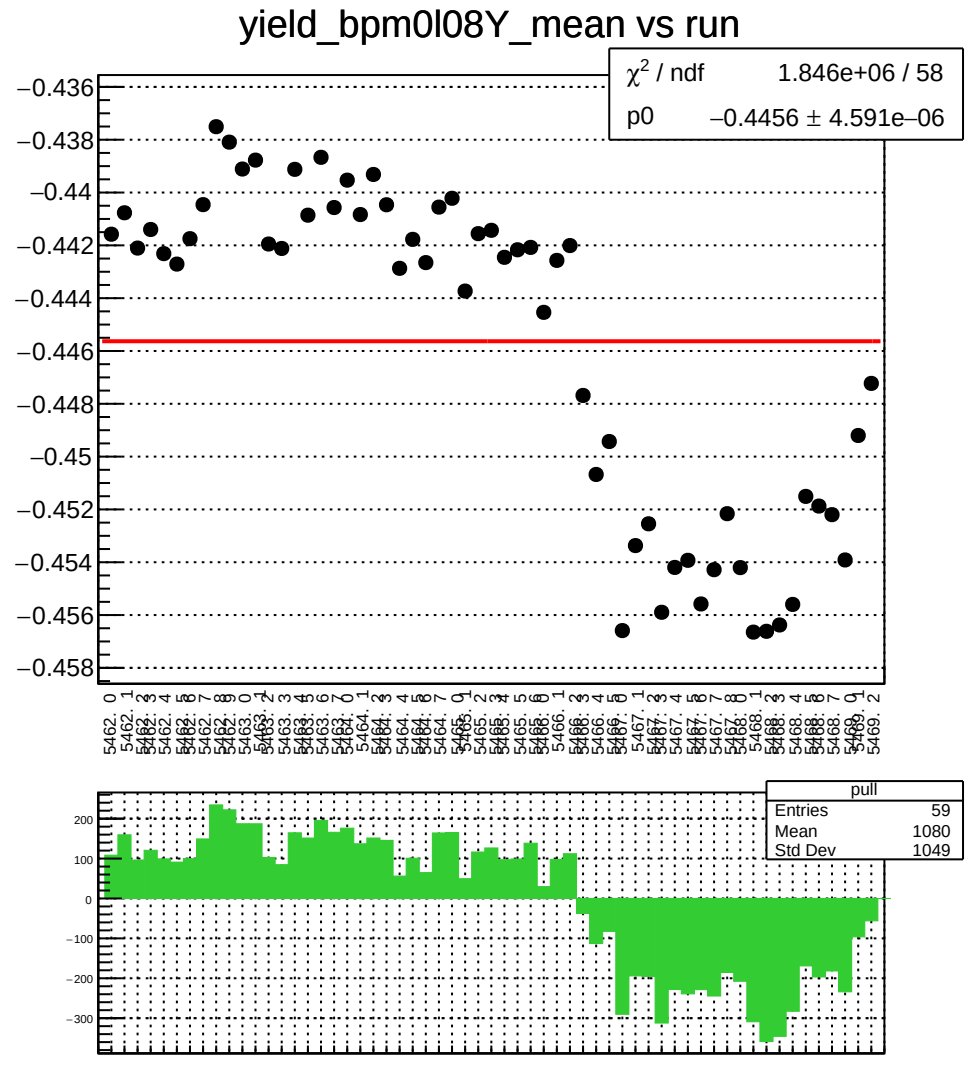

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

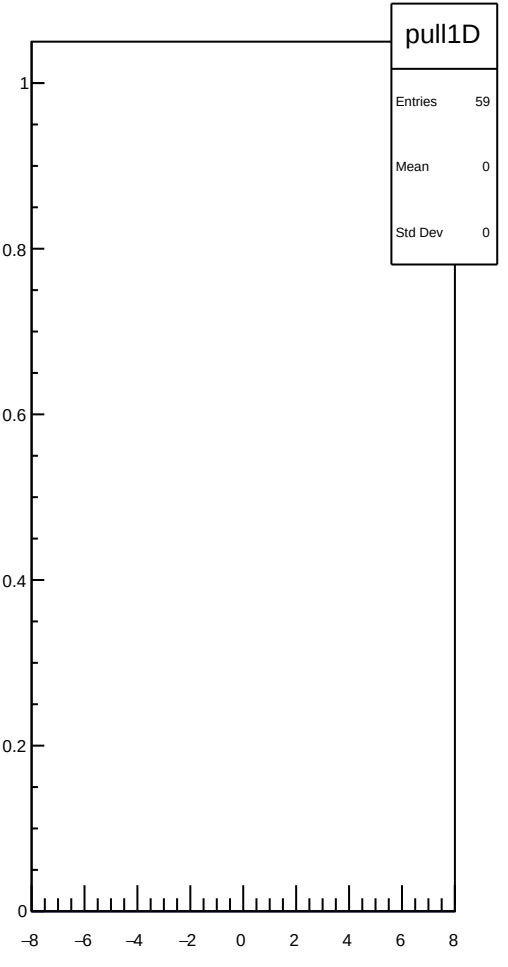

yield_bpm0l07Y_rms vs run
χ² / ndf 1.169e+04 / 58
p0 0.002358 ± 2.227e−06
0.0036
0.0034
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002

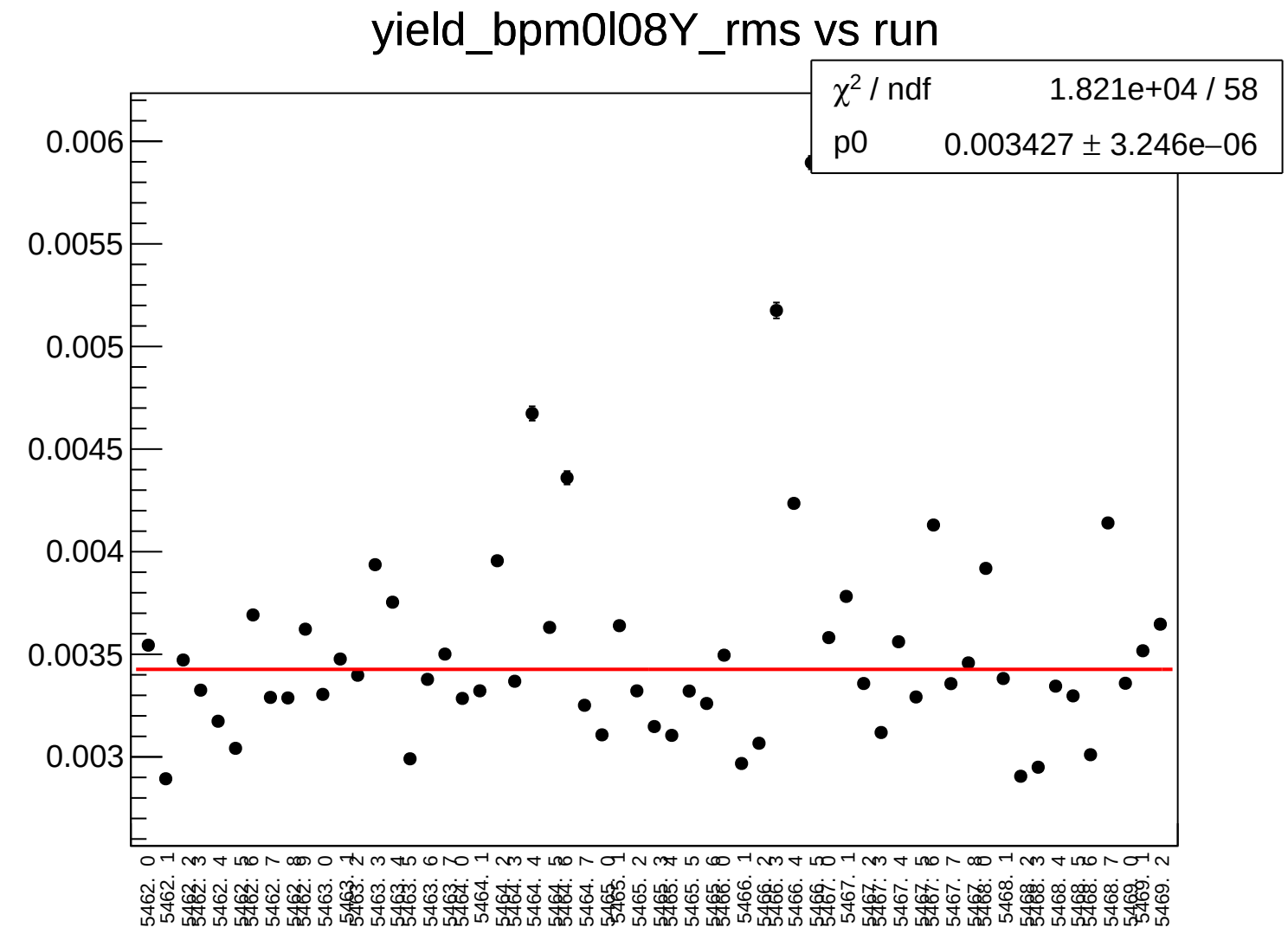

yield_bpm0l08X_mean vs run
χ² / ndf 6.817e+04 / 58
p0 0.1163 ± 1.536e−05
0.125
0.12
0.115
0.11
0.105
pull
Entries 59
Mean −20.45
Std Dev 56.6
60
40
20
0
−20
−40
−60
−80
−100

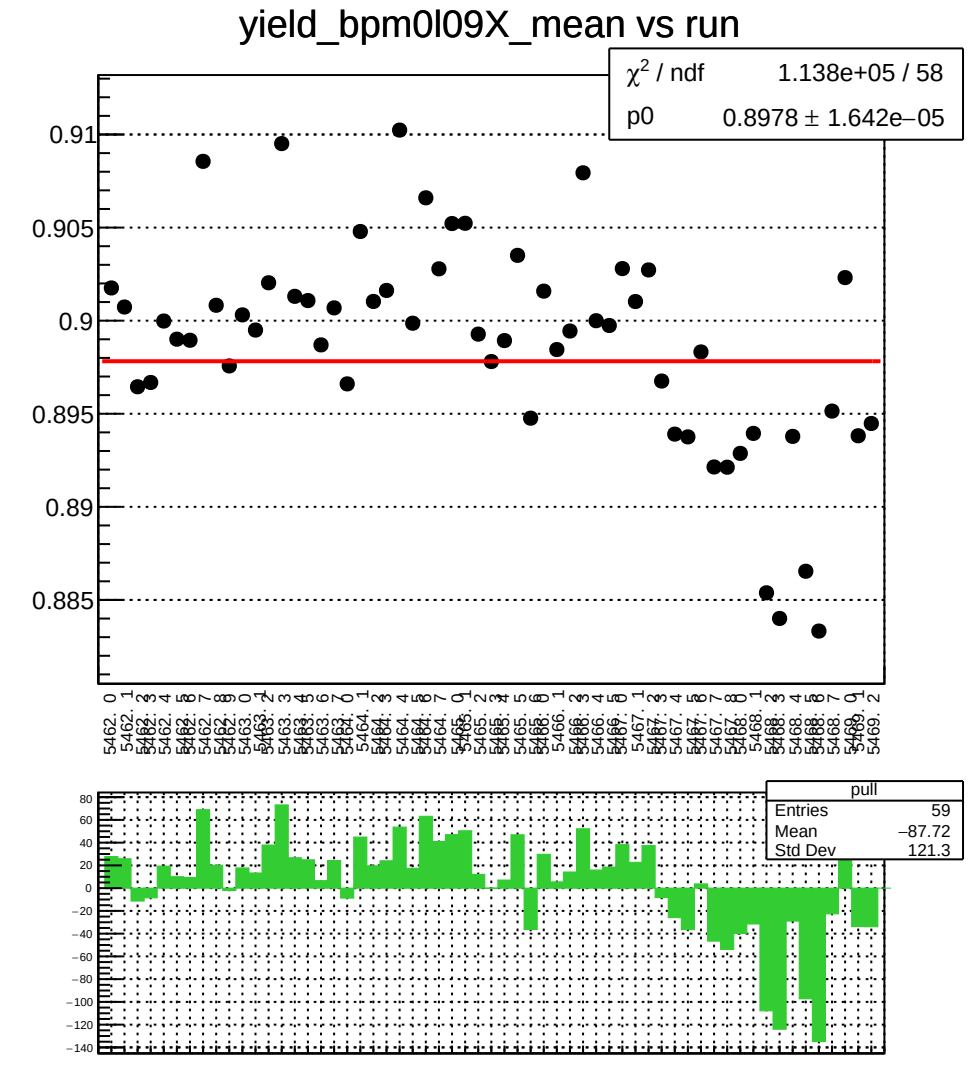

pull1D
Entries 59
Mean −1.231
Std Dev 3.806
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

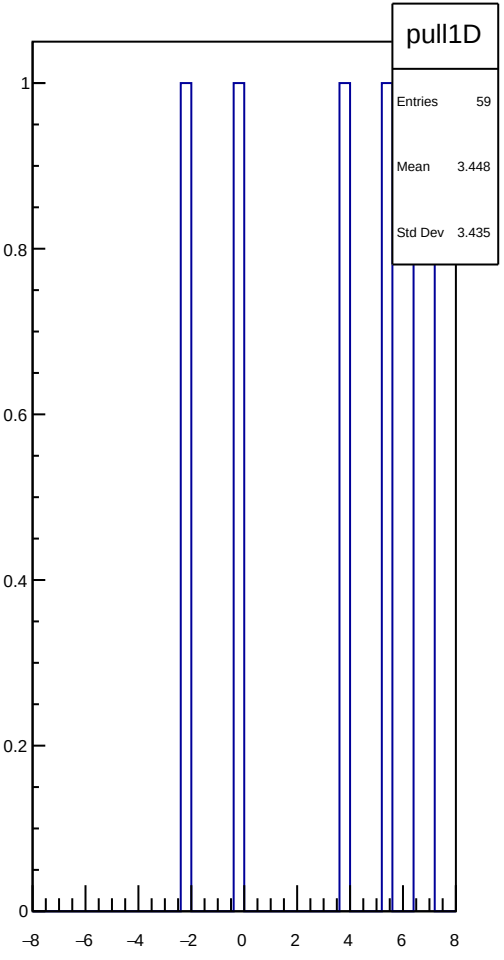

yield_bpm0l08X_rms vs run
χ² / ndf 1.842e+04 / 58
p0 0.01147 ± 1.086e–05
0.02
0.018
0.016
0.014
0.012
0.01
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

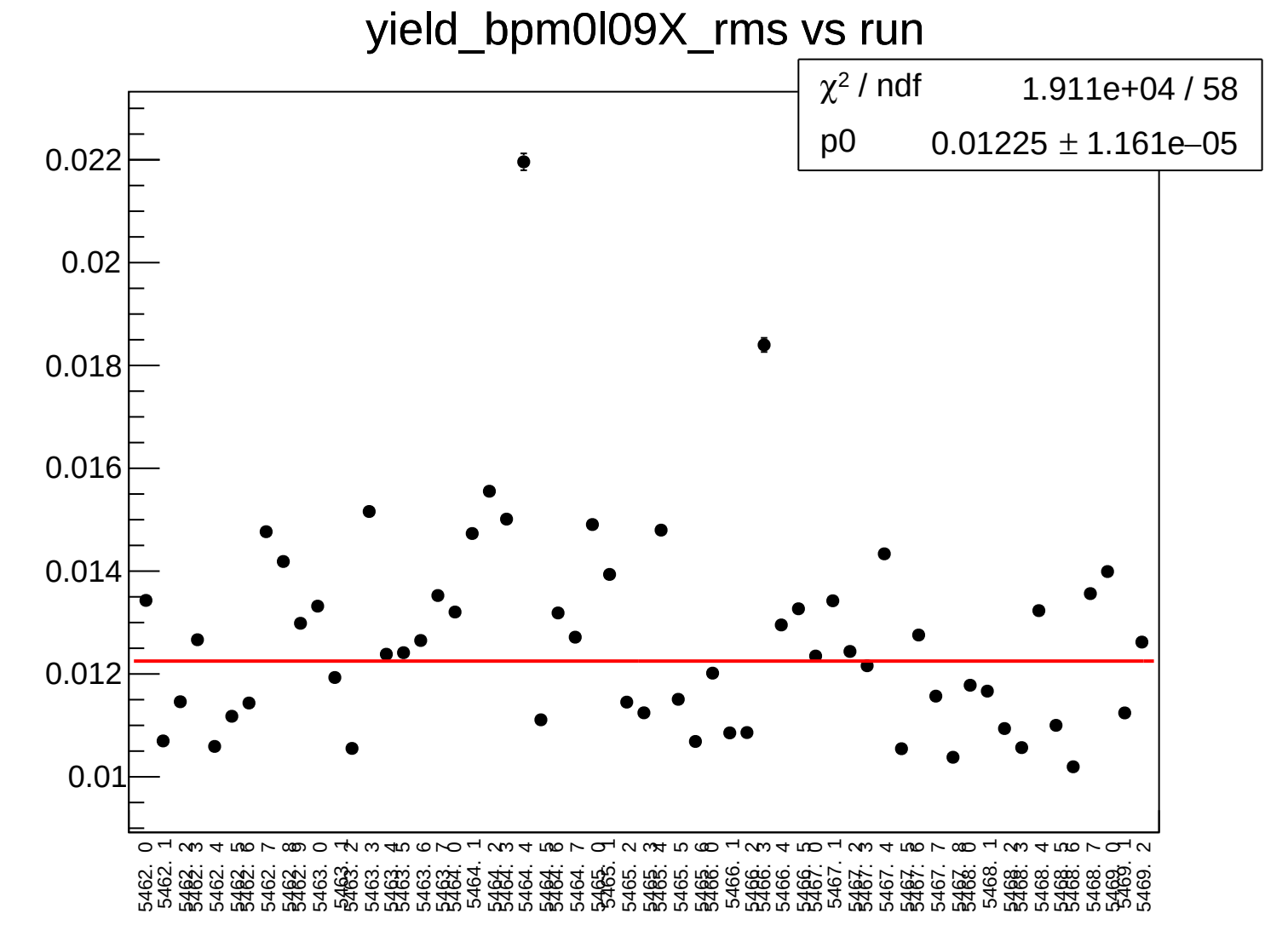

yield_bpm0l08Y_mean vs run
χ² / ndf 1.846e+06 / 58
p0 −0.4456 ± 4.591e−06
−0.436
−0.438
−0.44
−0.442
−0.444
−0.446
−0.448
−0.45
−0.452
−0.454
−0.456
−0.458
pull
Entries 59
Mean 1080
Std Dev 1049
200
100
0
−100
−200
−300

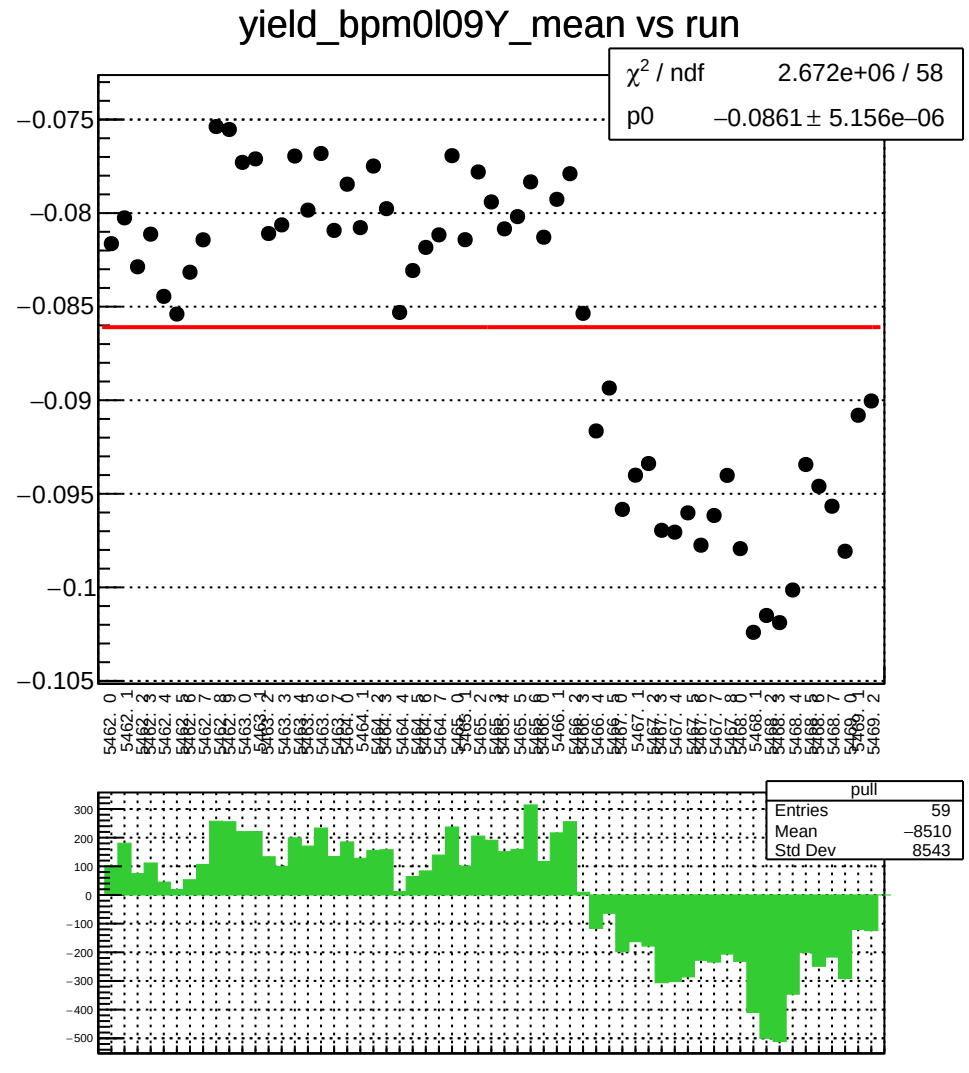

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

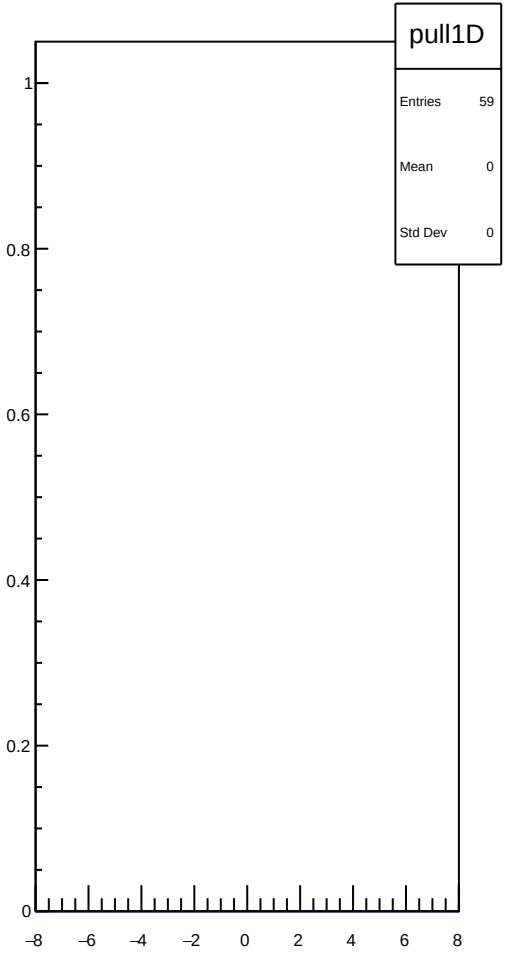

yield_bpm0l08Y_rms vs run
χ² / ndf 1.821e+04 / 58
p0 0.003427 ± 3.246e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003

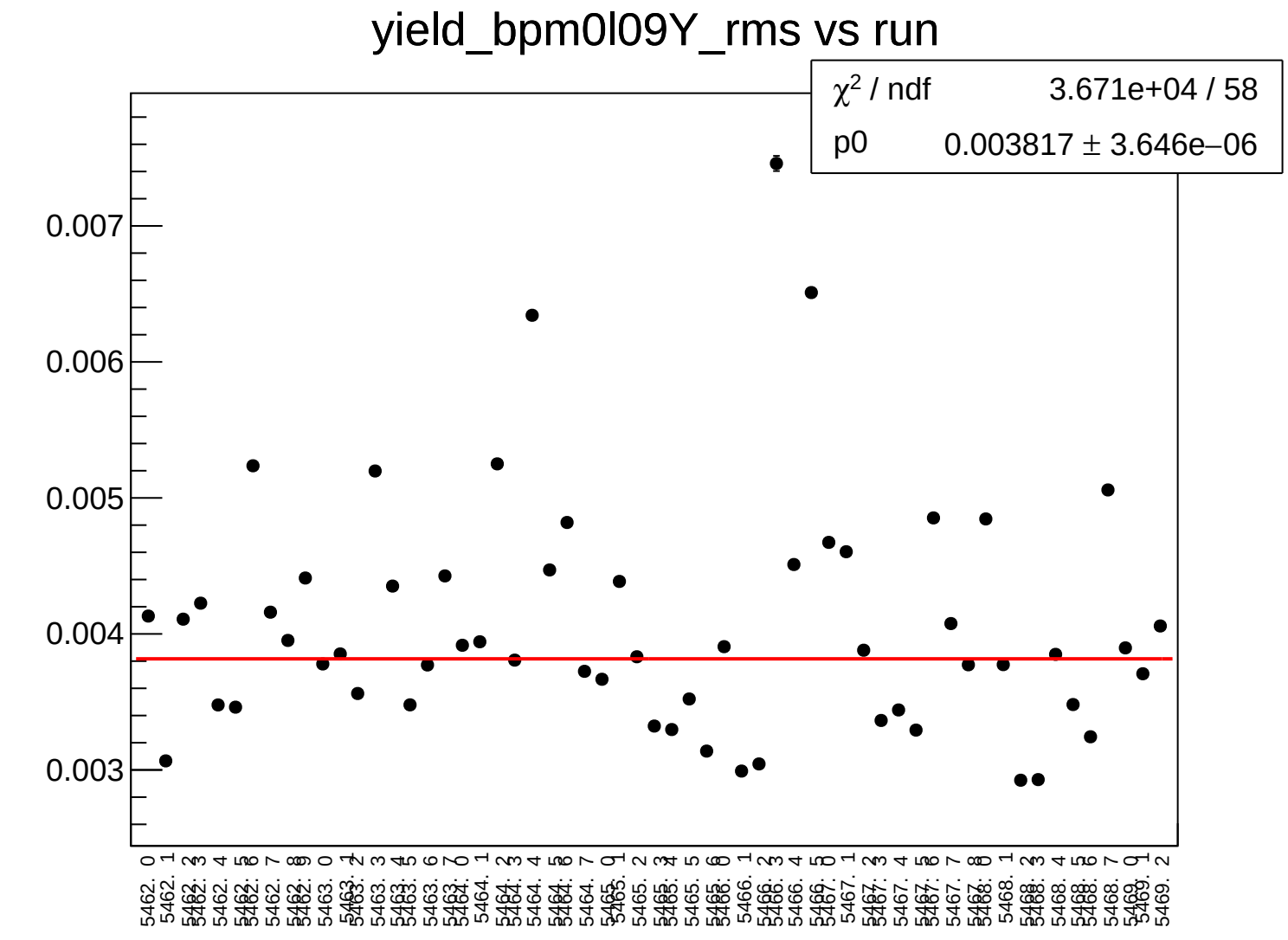

yield_bpm0l09X_mean vs run
χ² / ndf 1.138e+05 / 58
p0 0.8978 ± 1.642e−05
0.91
0.905
0.9
0.895
0.89
0.885
pull
Entries 59
Mean −87.72
Std Dev 121.3
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

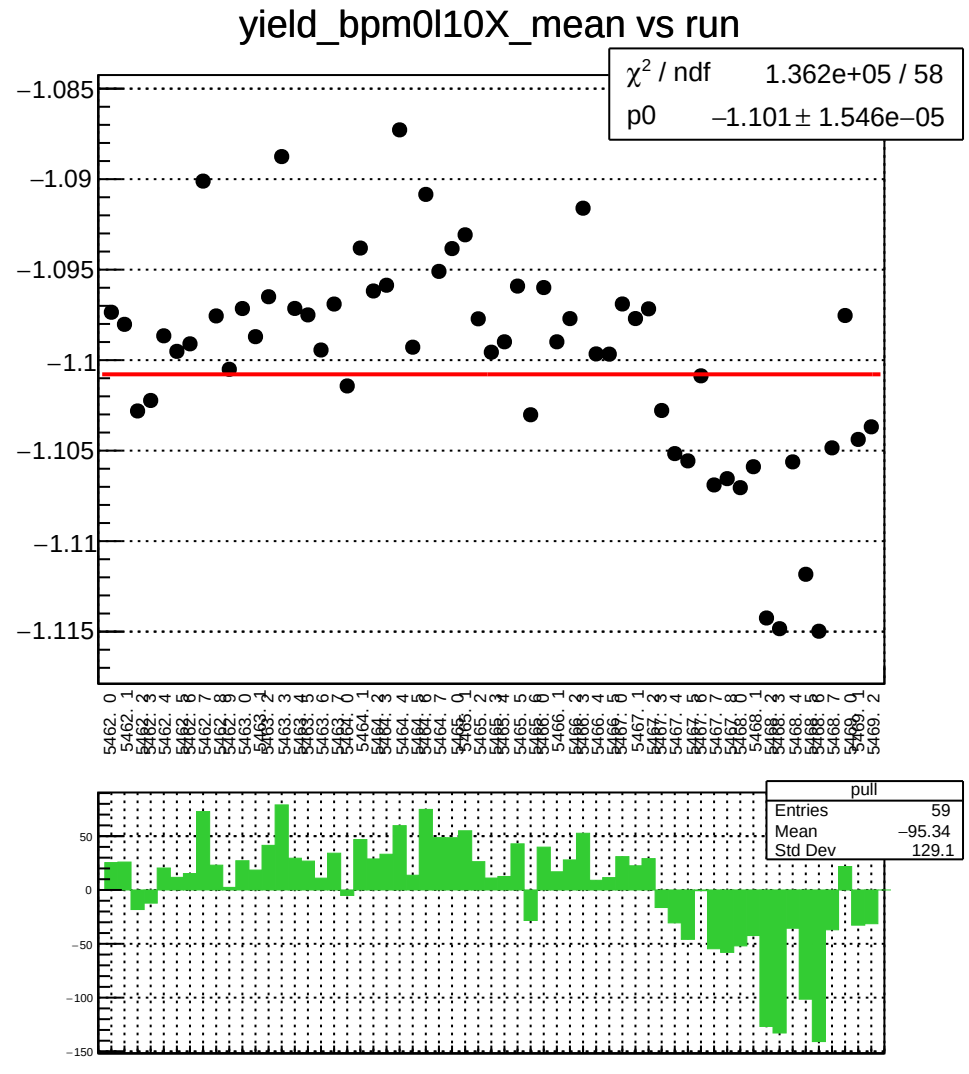

pull1D
Entries 59
Mean 3.448
Std Dev 3.435
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

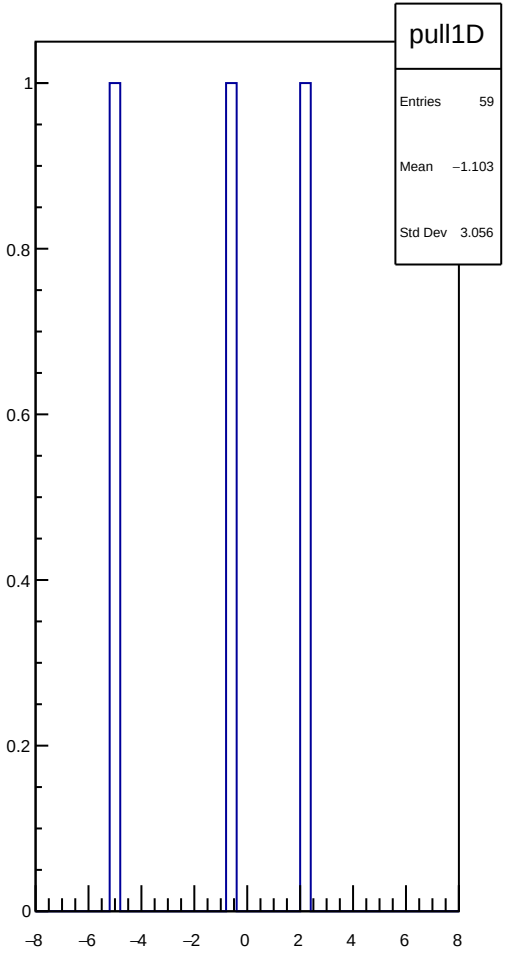

yield_bpm0l09X_rms vs run
χ² / ndf 1.911e+04 / 58
p0 0.01225 ± 1.161e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01
5462. 0
5462. 1
5462. 2
5462. 3
5462. 4
5462. 5
5462. 6
5462. 7
5462. 8
5462. 9
5463. 0
5463. 1
5463. 2
5463. 3
5463. 4
5463. 5
5463. 6
5463. 7
5464. 0
5464. 1
5464. 2
5464. 3
5464. 4
5464. 5
5464. 6
5464. 7
5465. 0
5465. 1
5465. 2
5465. 3
5465. 4
5465. 5
5465. 6
5466. 0
5466. 1
5466. 2
5466. 3
5466. 4
5466. 5
5467. 0
5467. 1
5467. 2
5467. 3
5467. 4
5467. 5
5467. 6
5467. 7
5467. 8
5468. 0
5468. 1
5468. 2
5468. 3
5468. 4
5468. 5
5468. 6
5468. 7
5469. 0
5469. 1
5469. 2

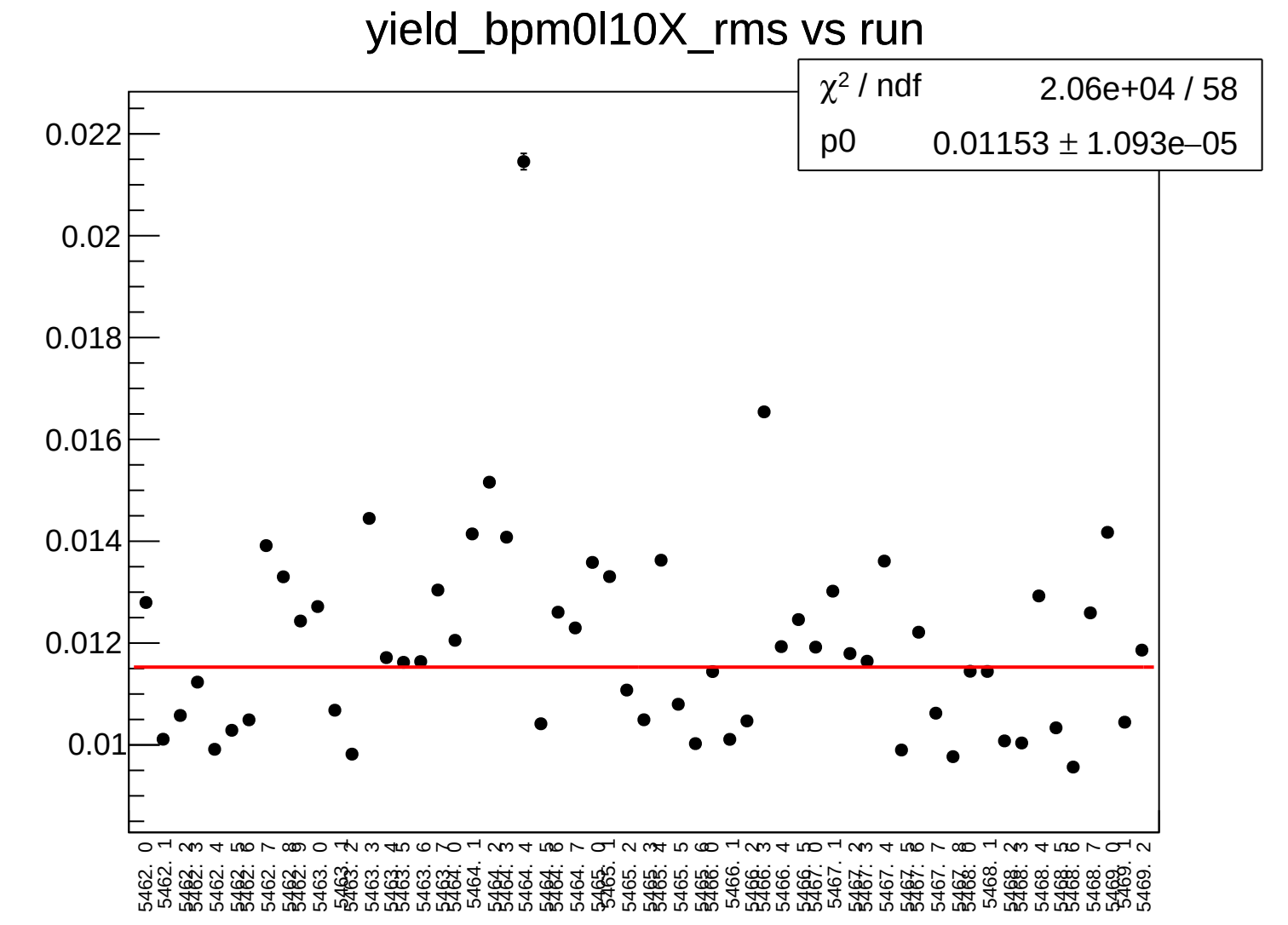

yield_bpm0l09Y_mean vs run
χ² / ndf 2.672e+06 / 58
p0 −0.0861 ± 5.156e−06
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
−0.105
pull
Entries 59
Mean −8510
Std Dev 8543
300
200
100
0
−100
−200
−300
−400
−500

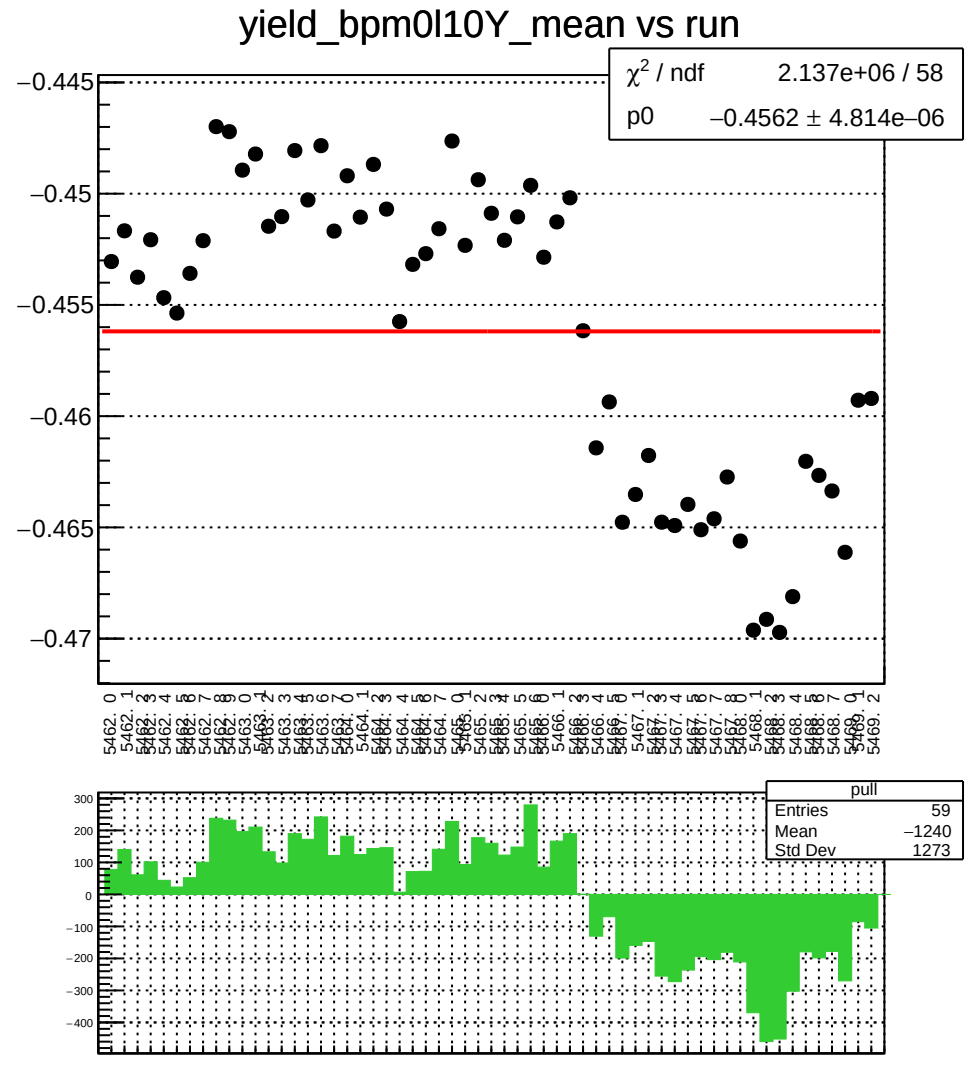

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

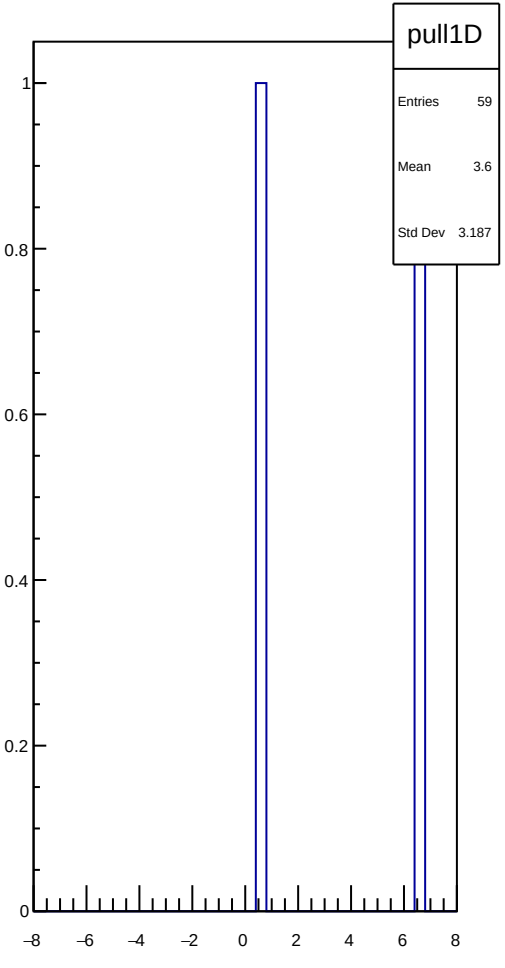

yield_bpm0l09Y_rms vs run
χ² / ndf 3.671e+04 / 58
p0 0.003817 ± 3.646e−06
0.007
0.006
0.005
0.004
0.003

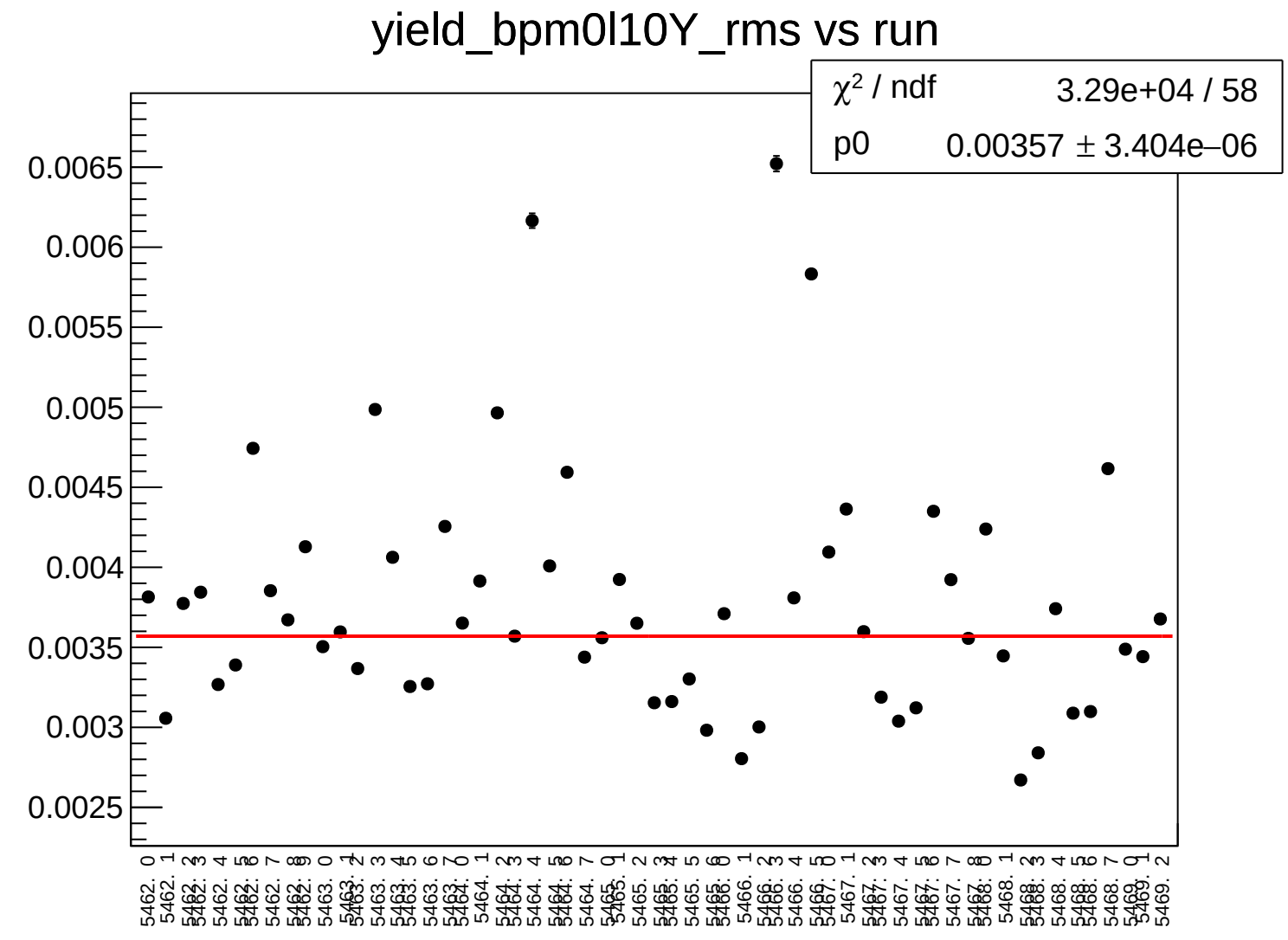

yield_bpm0l10X_mean vs run
χ² / ndf 1.362e+05 / 58
p0 −1.101 ± 1.546e−05
−1.085
−1.09
−1.095
−1.1
−1.105
−1.11
−1.115
pull
Entries 59
Mean −95.34
Std Dev 129.1
50
0
−50
−100
−150

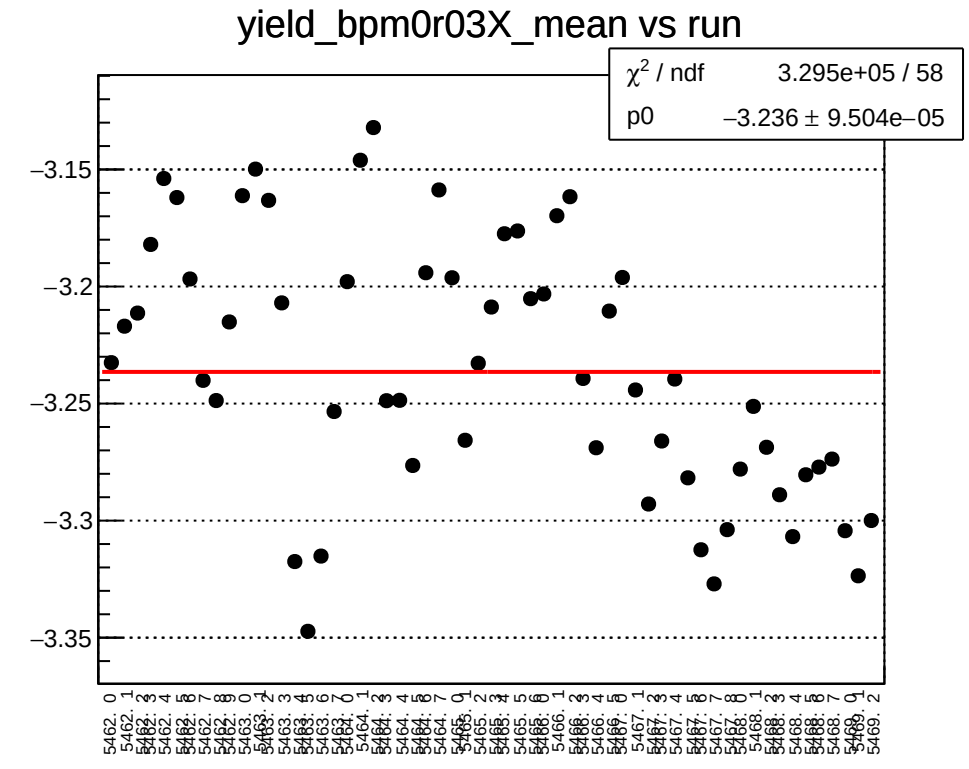

pull1D
Entries 59
Mean −1.103
Std Dev 3.056
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

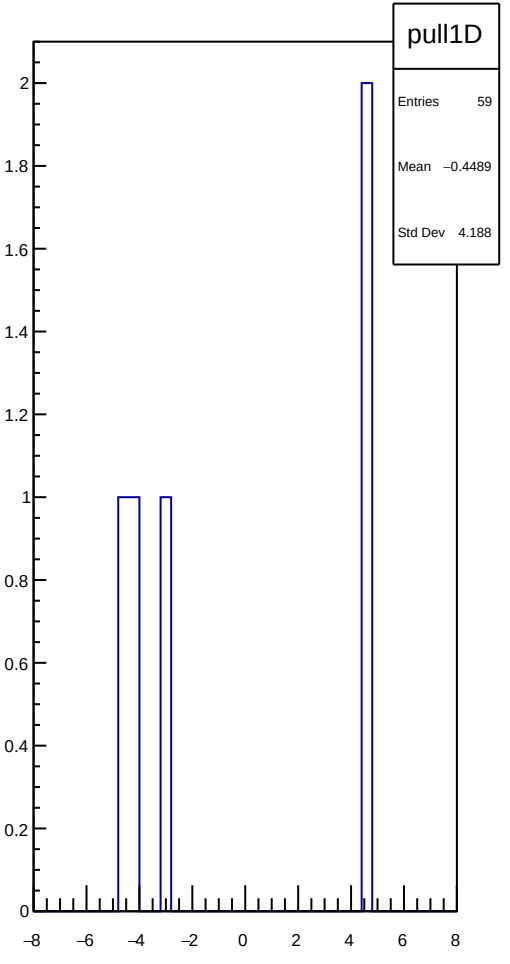

yield_bpm0l10X_rms vs run
χ² / ndf 2.06e+04 / 58
p0 0.01153 ± 1.093e−05
0.022
0.02
0.018
0.016
0.014
0.012
0.01

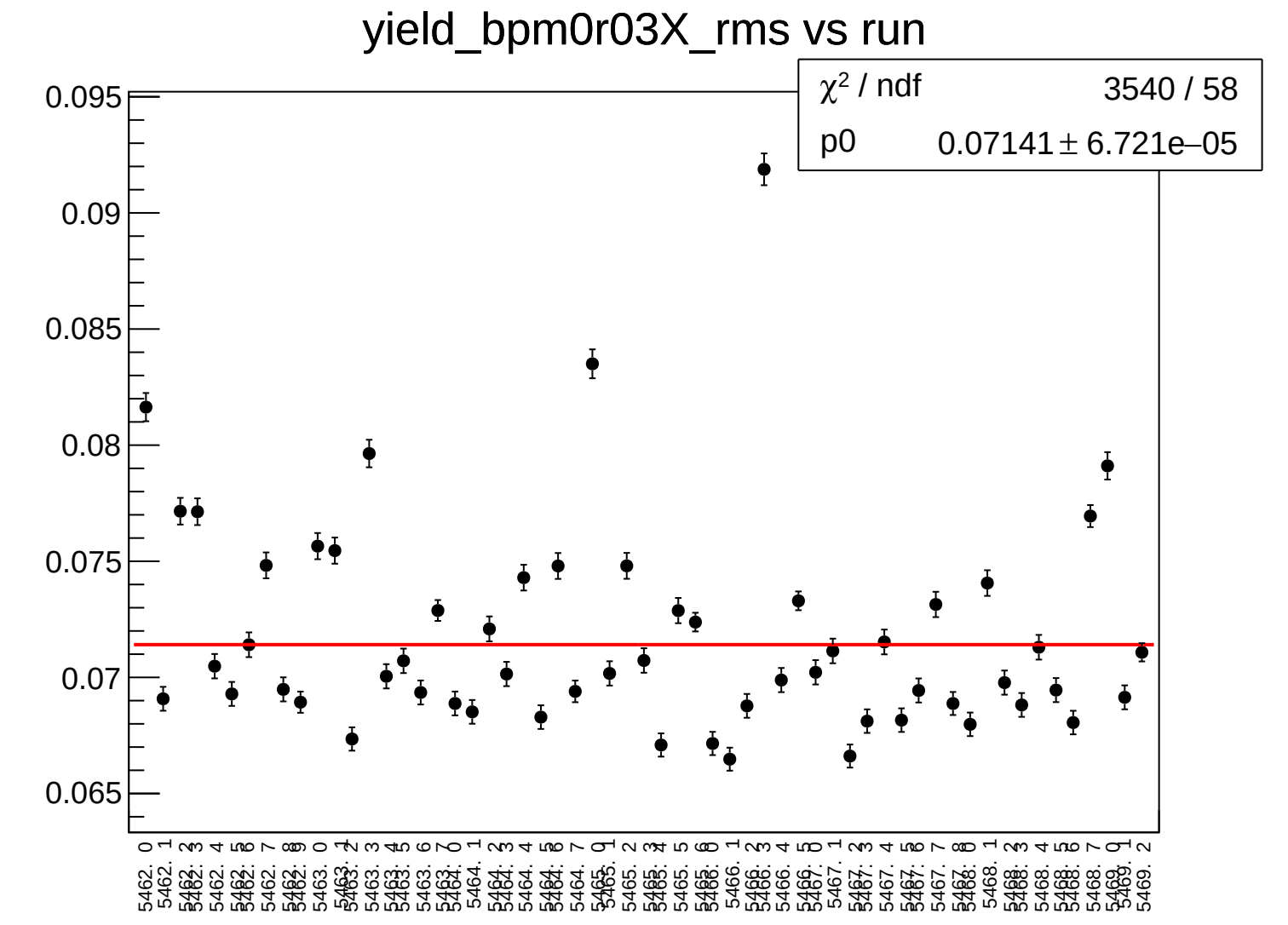

yield_bpm0l10Y_mean vs run
χ² / ndf 2.137e+06 / 58
p0 −0.4562 ± 4.814e−06
−0.445
−0.45
−0.455
−0.46
−0.465
−0.47
pull
Entries 59
Mean −1240
Std Dev 1273
300
200
100
0
−100
−200
−300
−400

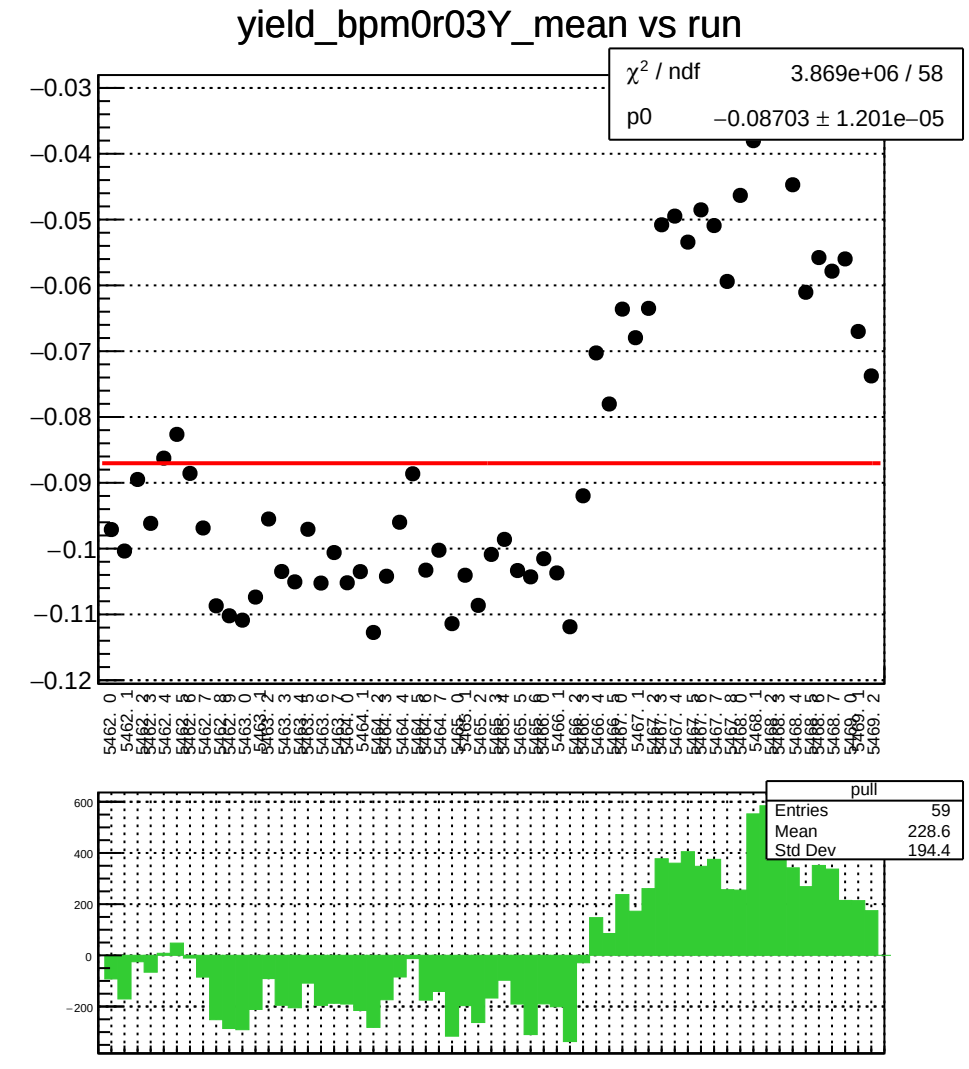

pull1D
Entries 59
Mean 3.6
Std Dev 3.187
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

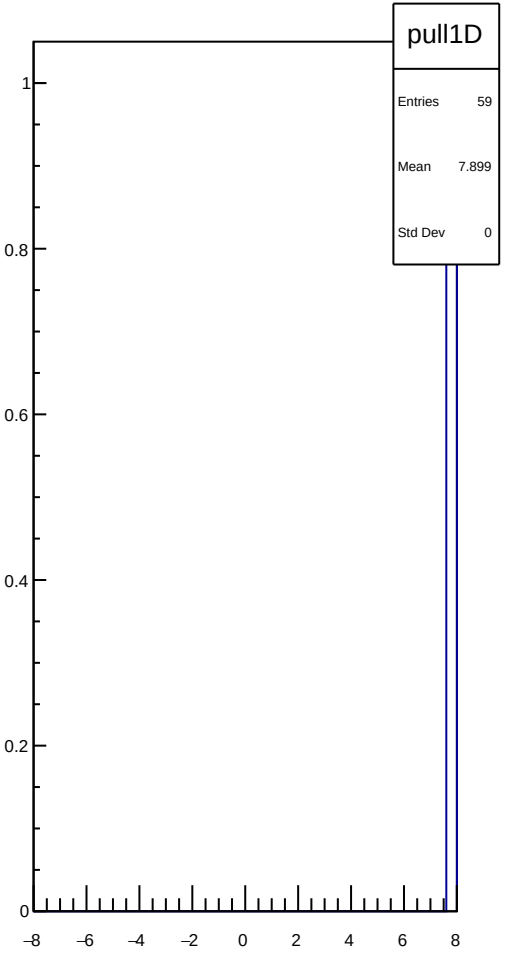

yield_bpm0l10Y_rms vs run
χ² / ndf 3.29e+04 / 58
p0 0.00357 ± 3.404e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

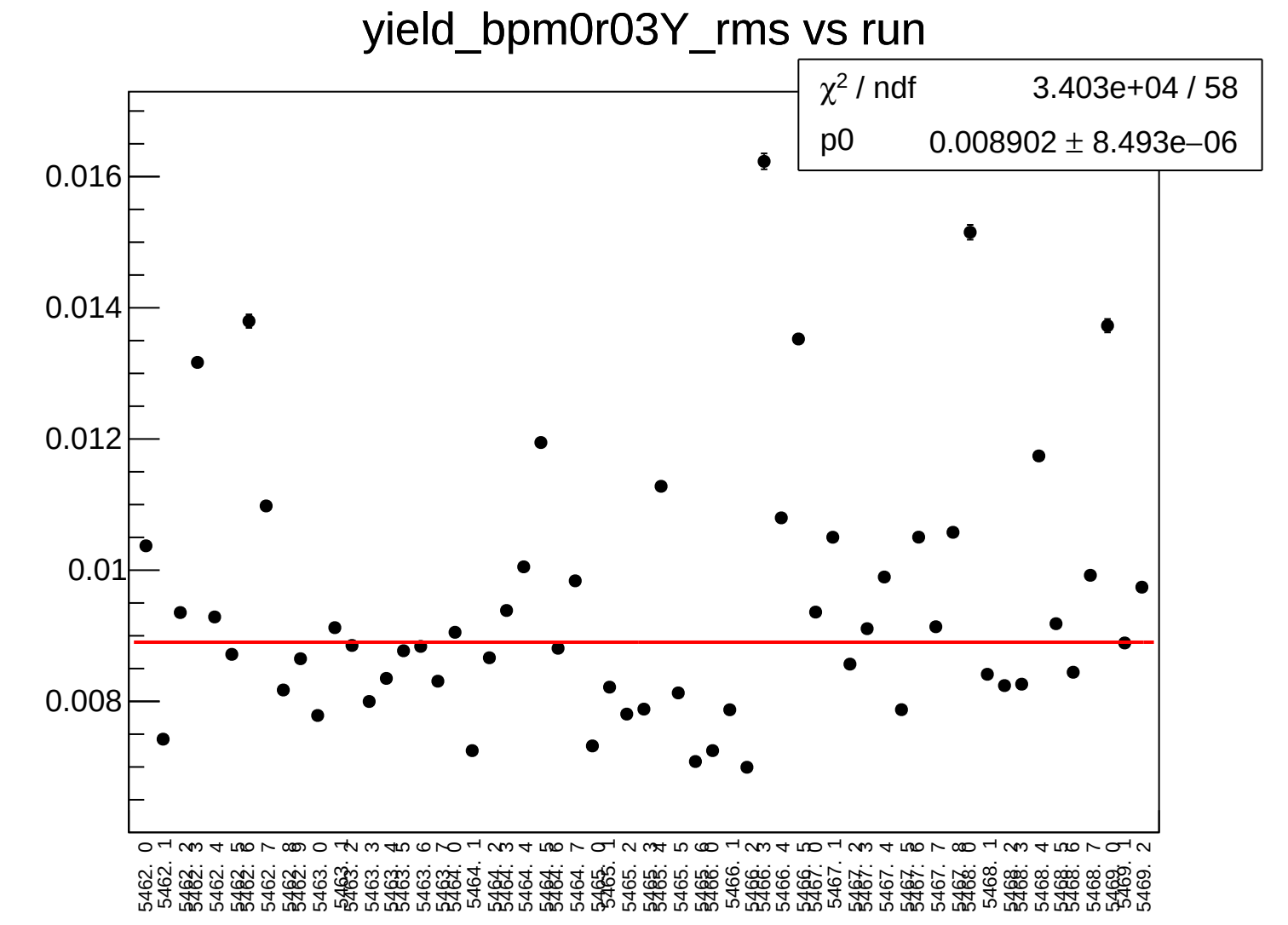

yield_bpm0r03X_mean vs run
χ² / ndf 3.295e+05 / 58
p0 −3.236 ± 9.504e−05
−3.15
−3.2
−3.25
−3.3
−3.35
pull
Entries 59
Mean −1340
Std Dev 1373
150
100
50
0
−50
−100
−150

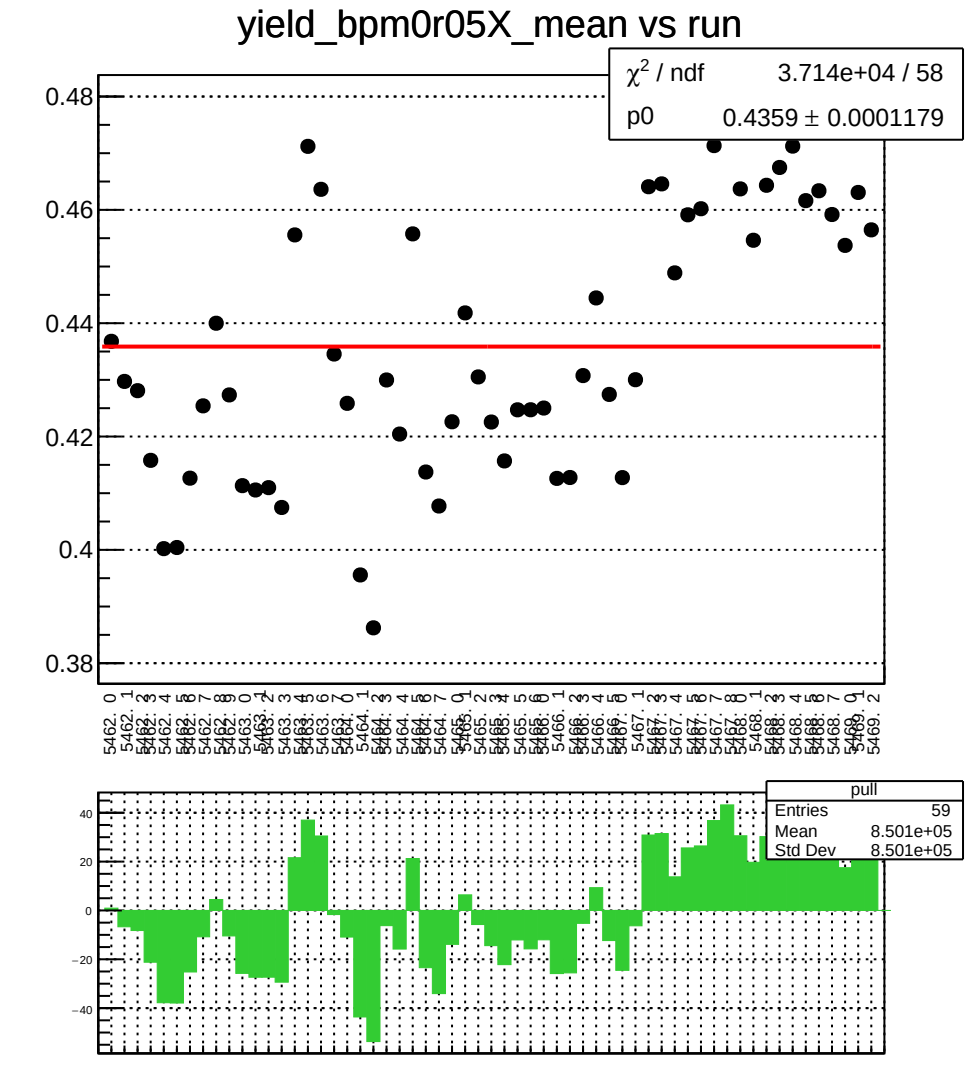

pull1D
Entries 59
Mean −0.4489
Std Dev 4.188
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

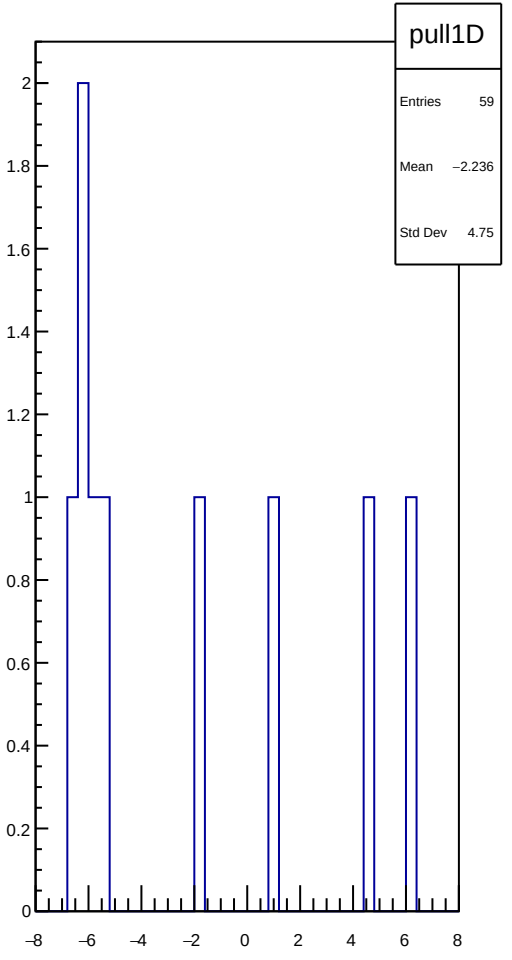

yield_bpm0r03X_rms vs run
χ² / ndf 3540 / 58
p0 0.07141 ± 6.721e–05
0.095
0.09
0.085
0.08
0.075
0.07
0.065

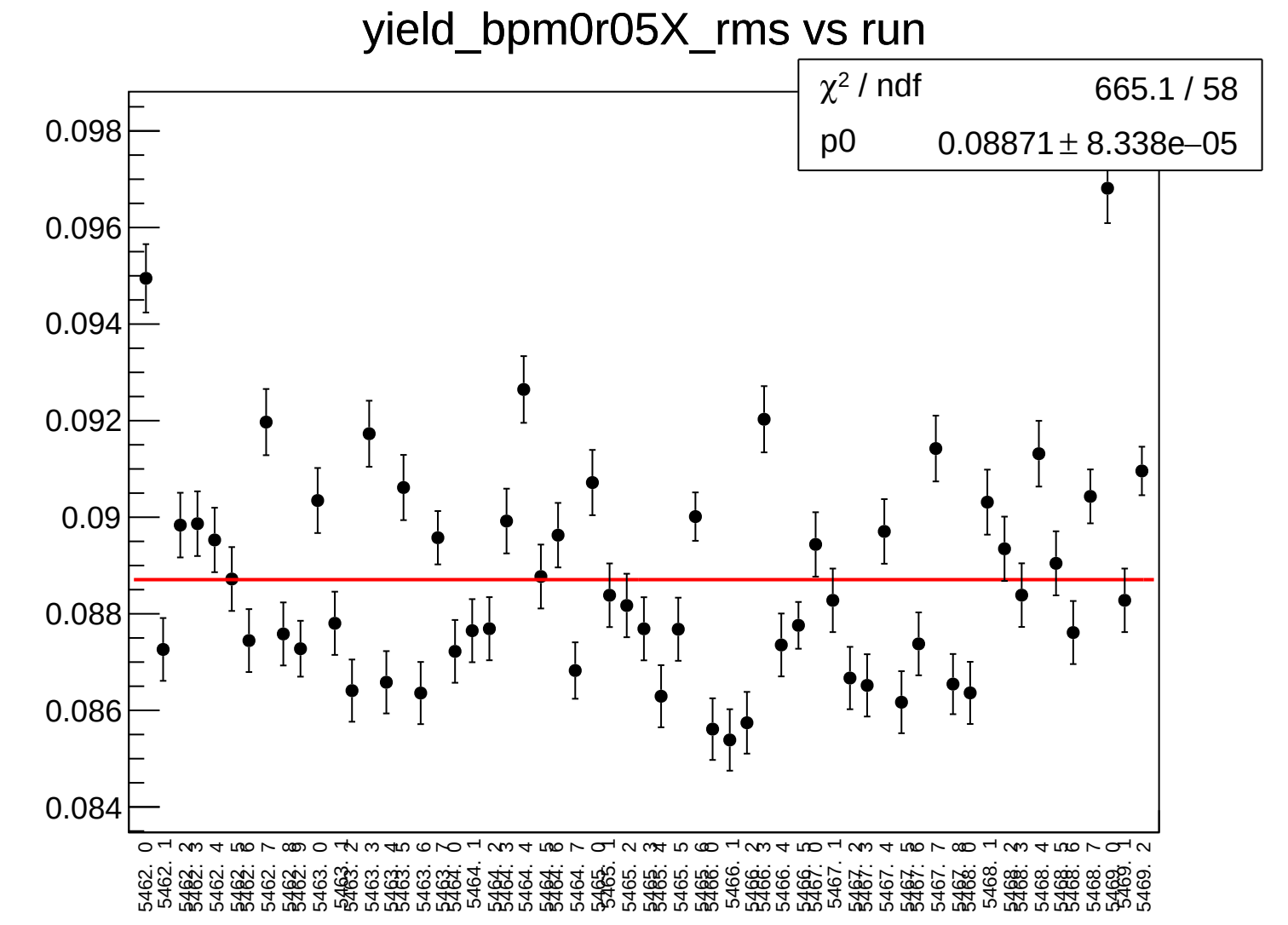

yield_bpm0r03Y_mean vs run
χ² / ndf 3.869e+06 / 58
p0 −0.08703 ± 1.201e−05
pull
Entries 59
Mean 228.6
Std Dev 194.4

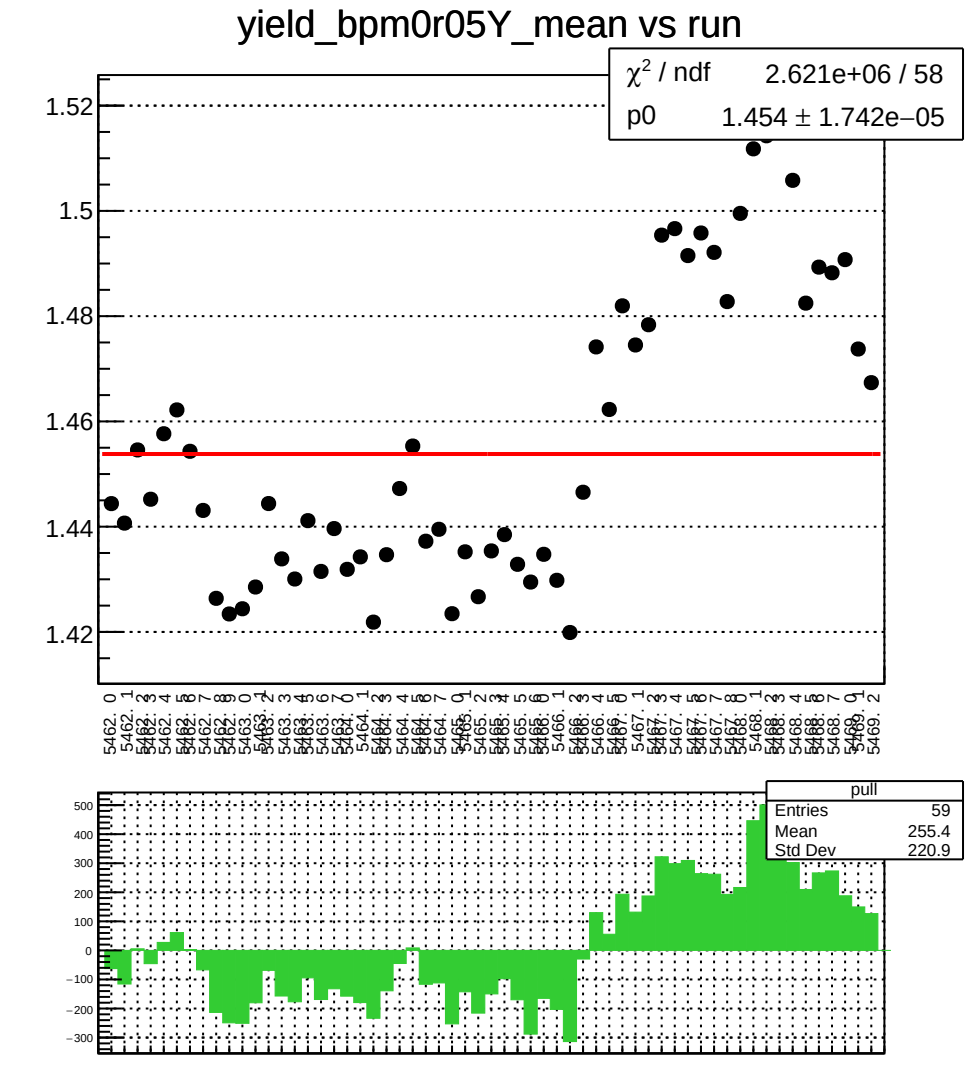

pull1D
Entries 59
Mean 7.899
Std Dev 0

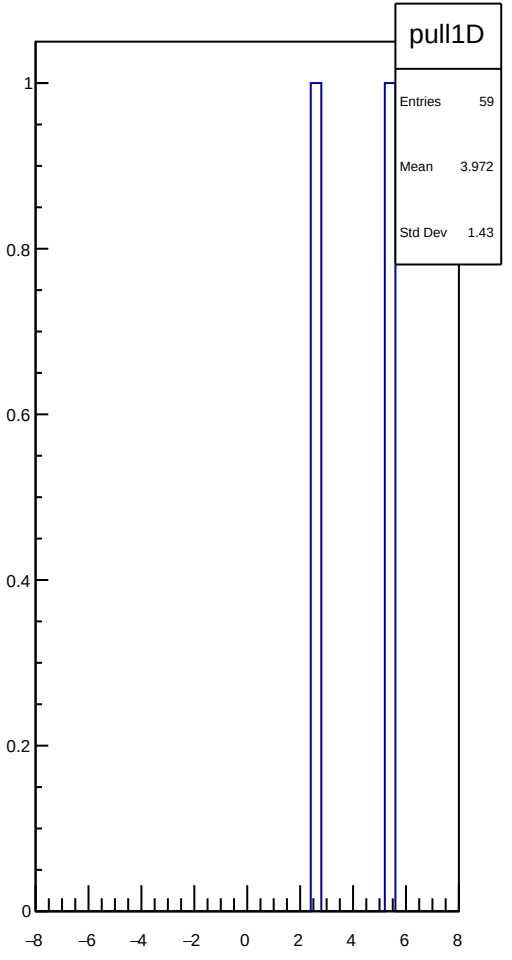

yield_bpm0r03Y_rms vs run
χ² / ndf 3.403e+04 / 58
p0 0.008902 ± 8.493e−06
0.016
0.014
0.012
0.01
0.008

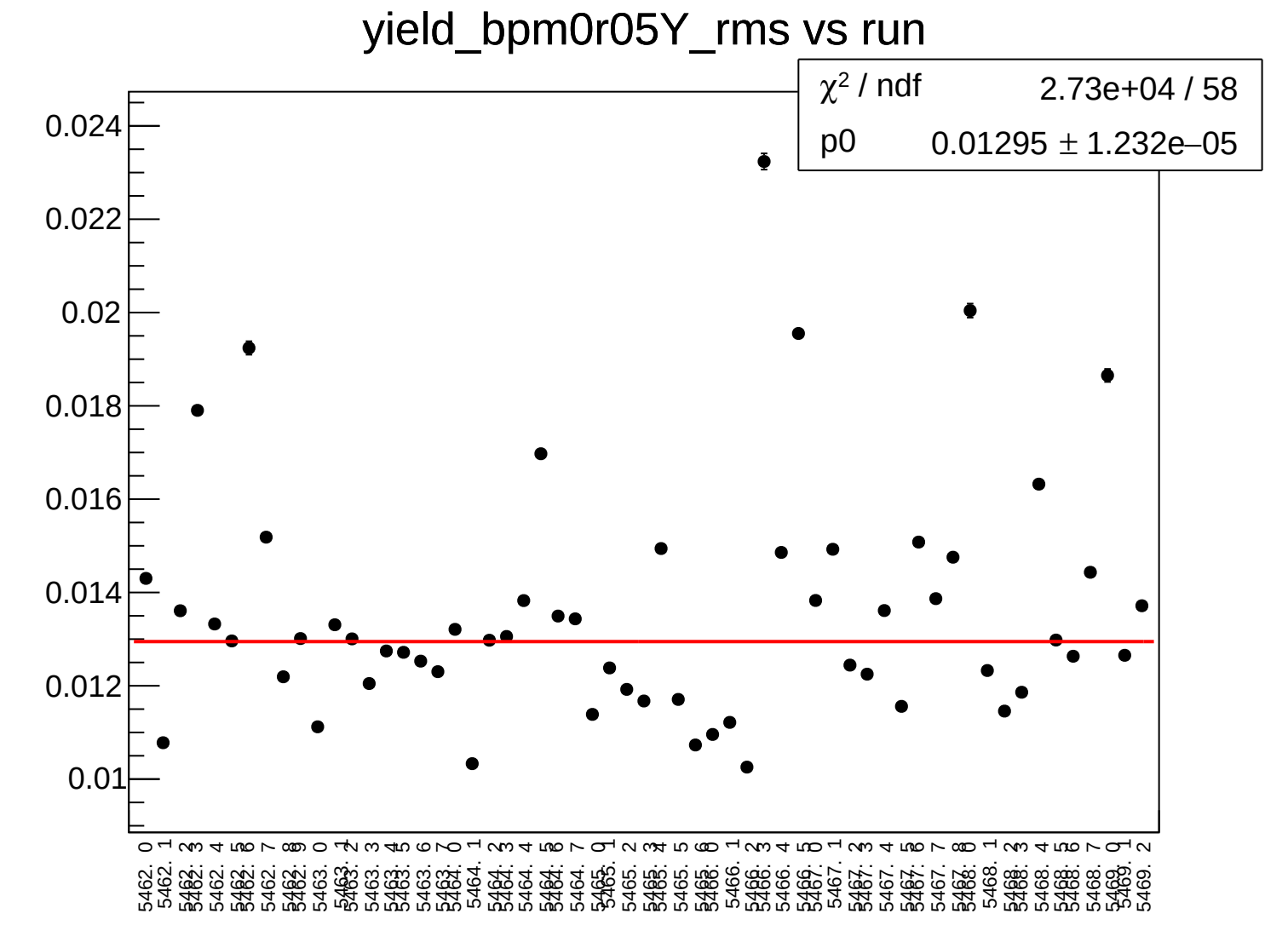

yield_bpm0r05X_mean vs run
χ² / ndf 3.714e+04 / 58
p0 0.4359 ± 0.0001179
0.48
0.46
0.44
0.42
0.4
0.38
pull
Entries 59
Mean 8.501e+05
Std Dev 8.501e+05
40
20
0
−20
−40

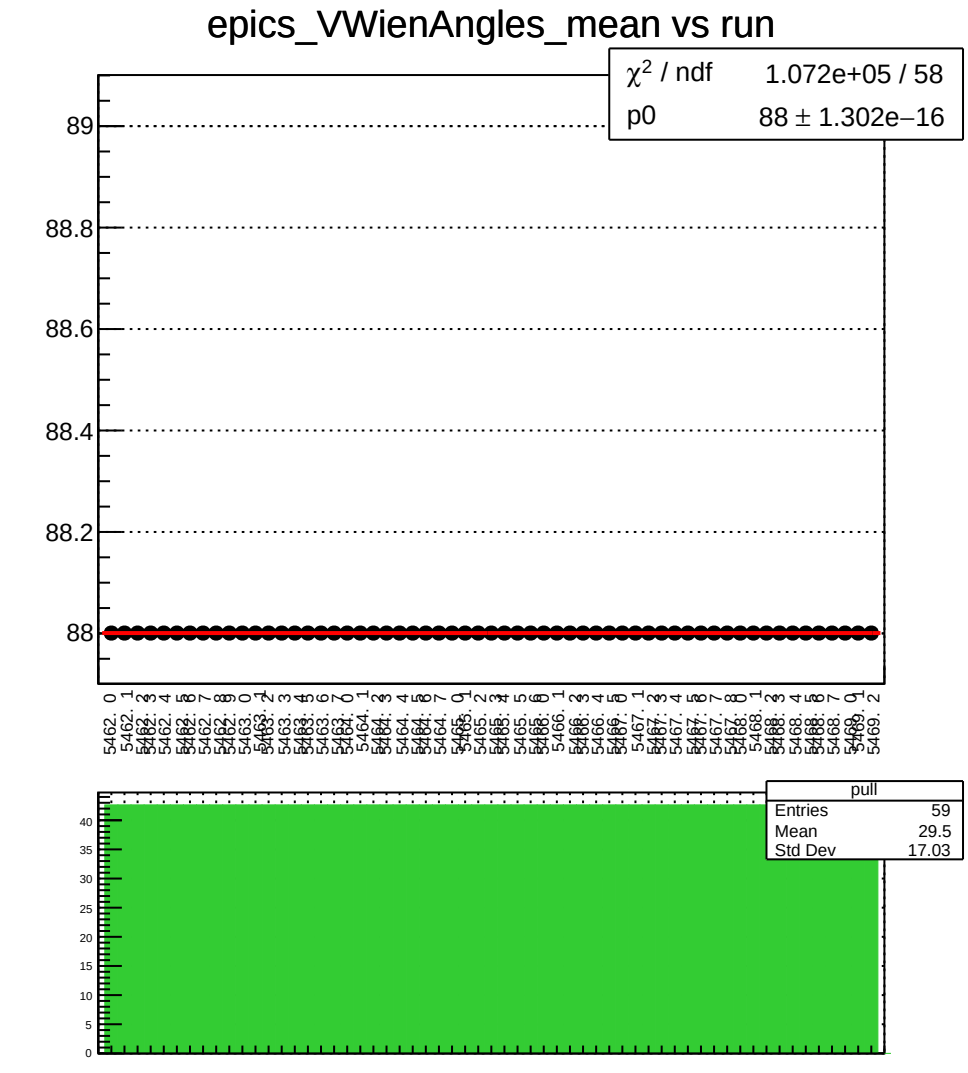

pull1D
Entries 59
Mean −2.236
Std Dev 4.75
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

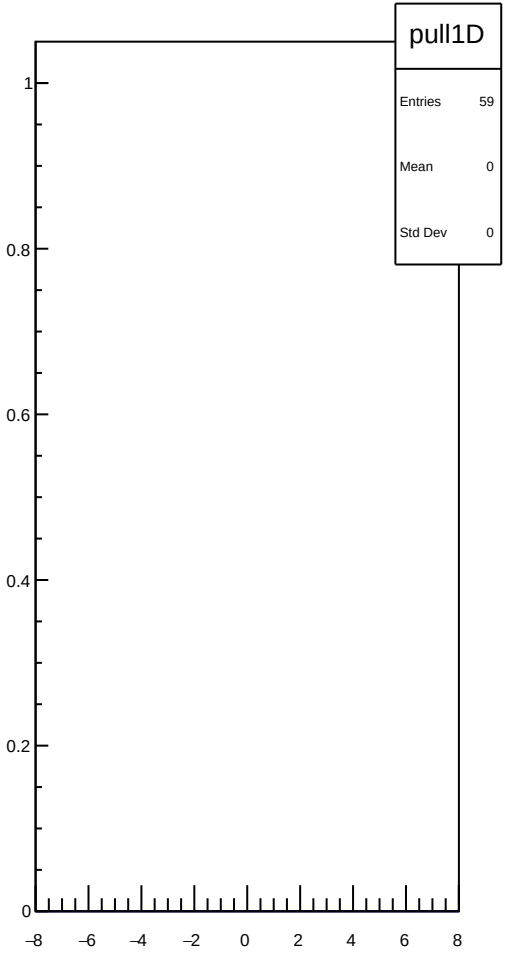

yield_bpm0r05X_rms vs run
χ² / ndf 665.1 / 58
p0 0.08871 ± 8.338e–05
0.098
0.096
0.094
0.092
0.09
0.088
0.086
0.084

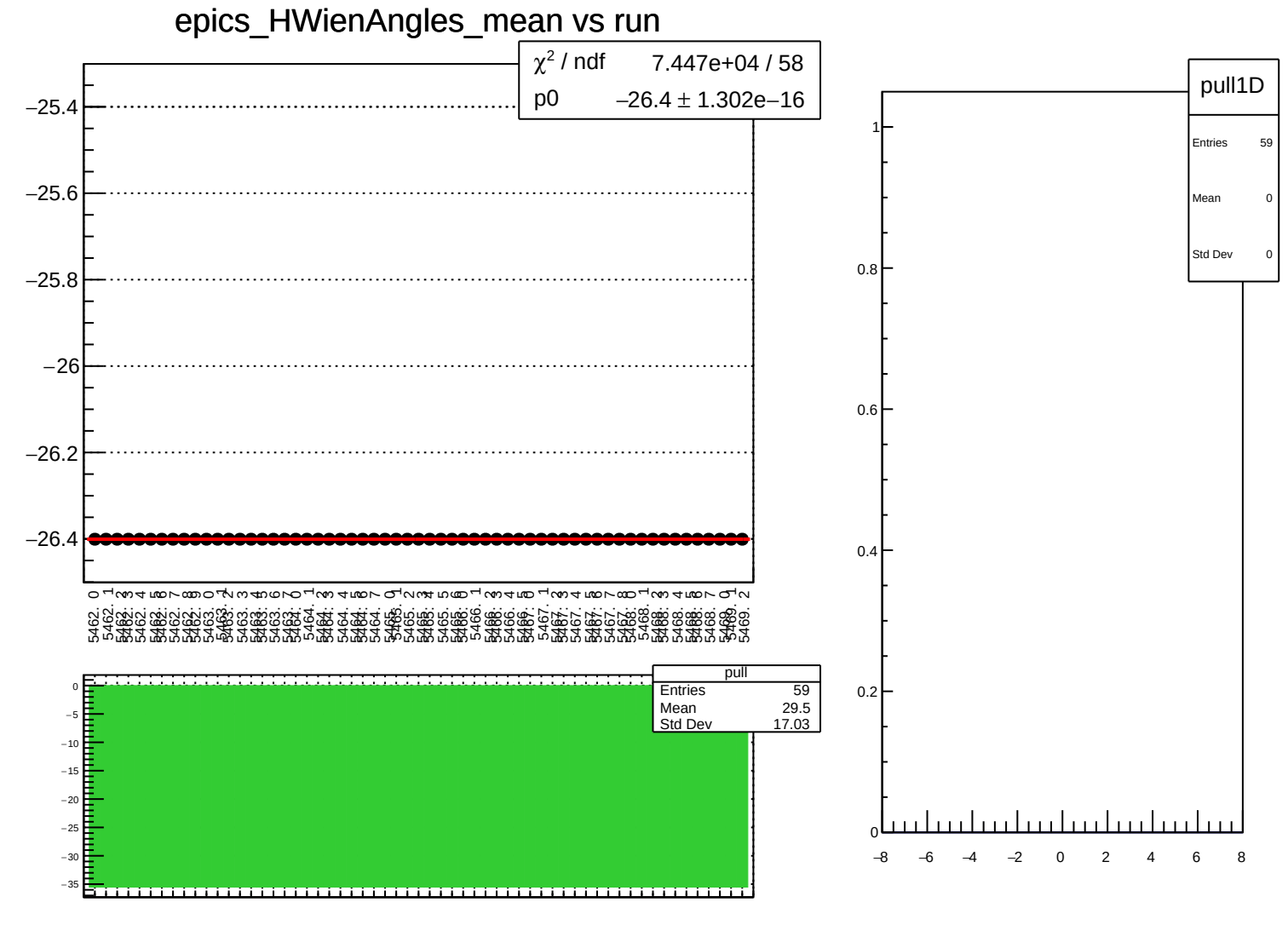

yield_bpm0r05Y_mean vs run
χ² / ndf 2.621e+06 / 58
p0 1.454 ± 1.742e−05
1.52
1.5
1.48
1.46
1.44
1.42
pull
Entries 59
Mean 255.4
Std Dev 220.9
500
400
300
200
100
0
−100
−200
−300

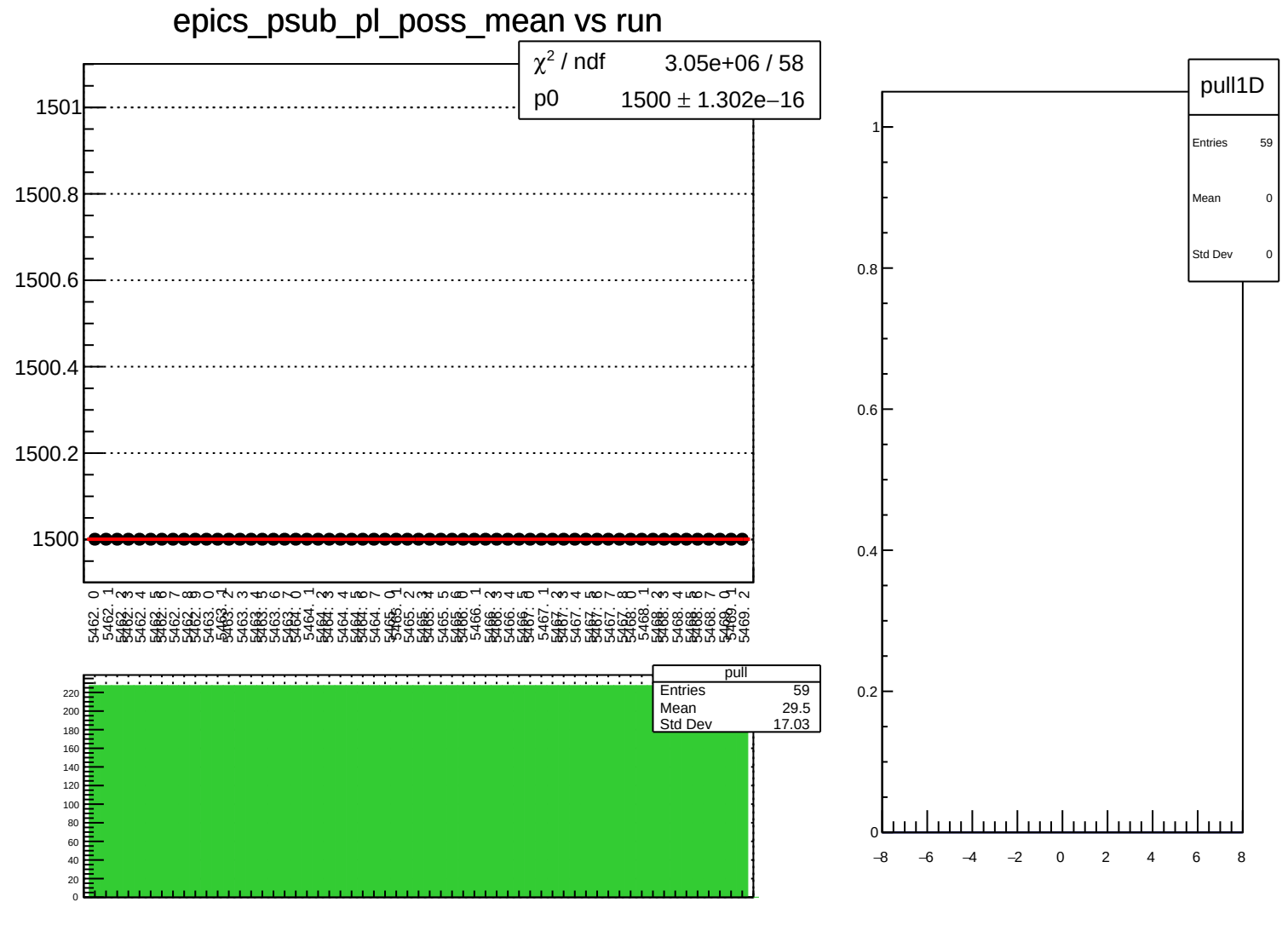

pull1D
Entries 59
Mean 3.972
Std Dev 1.43
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

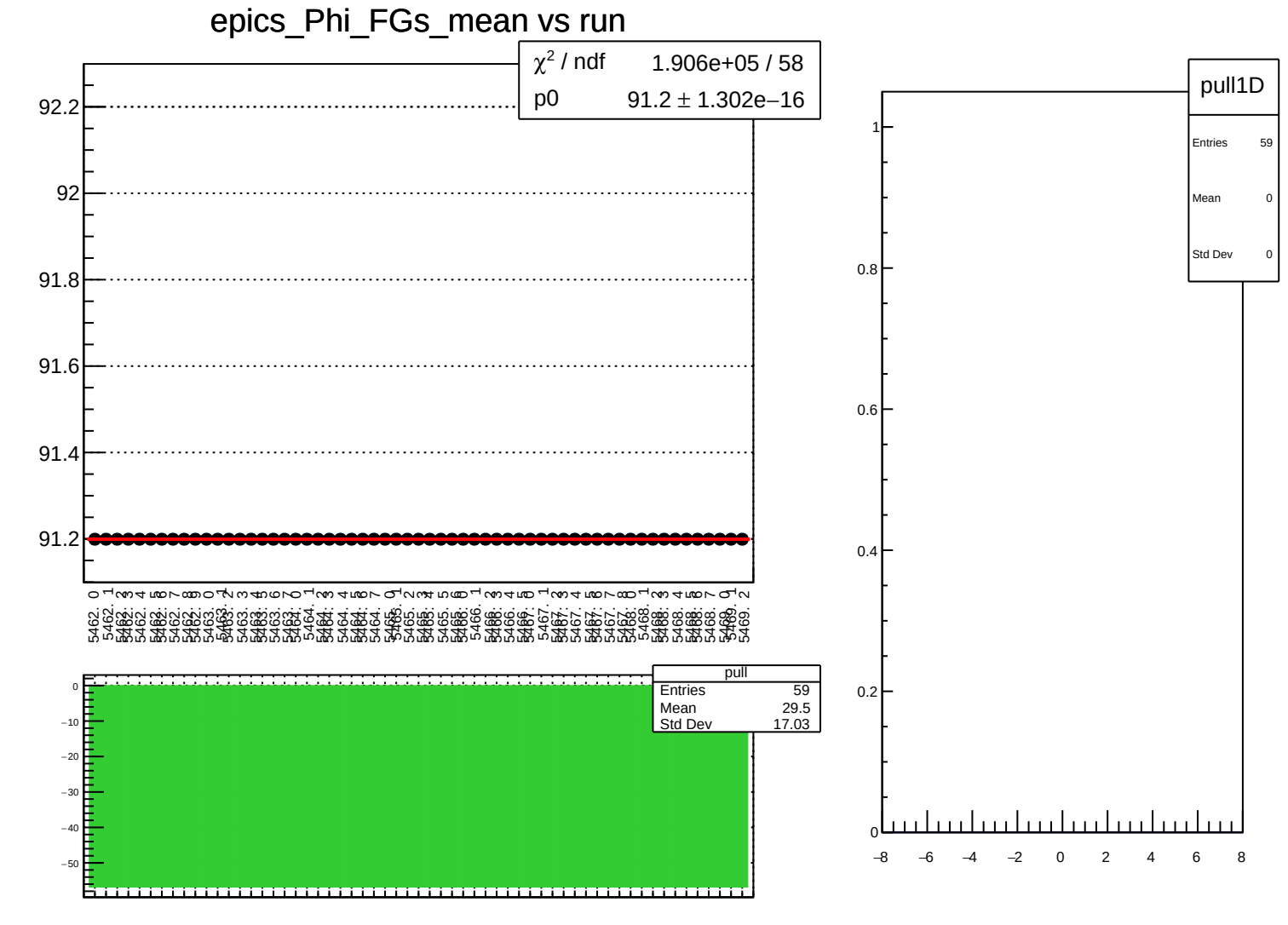

yield_bpm0r05Y_rms vs run
χ² / ndf 2.73e+04 / 58
p0 0.01295 ± 1.232e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

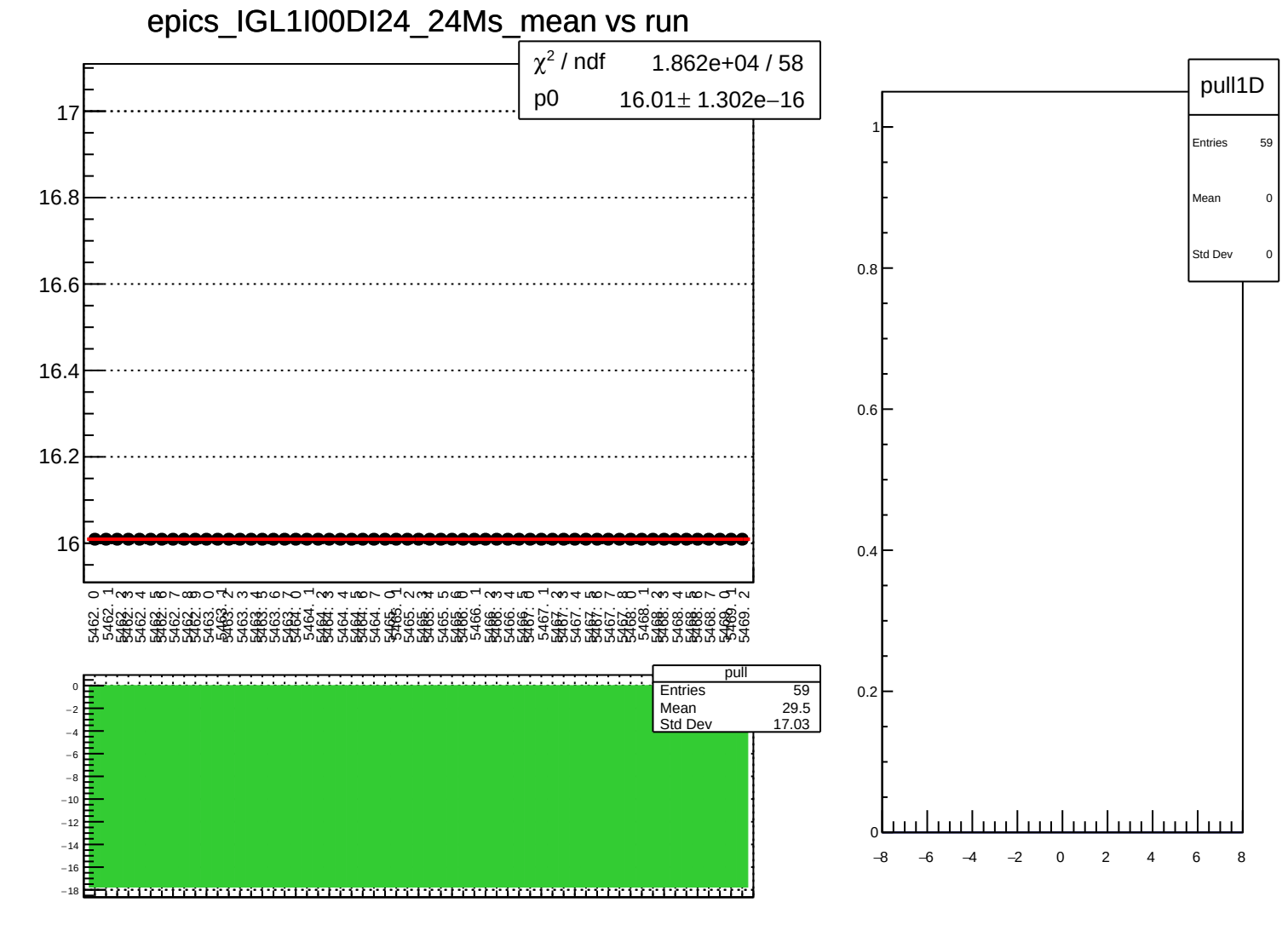

epics_VWienAngles_mean vs run
χ² / ndf 1.072e+05 / 58
p0 88 ± 1.302e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 59
Mean 29.5
Std Dev 17.03
40
35
30
25
20
15
10
5
0

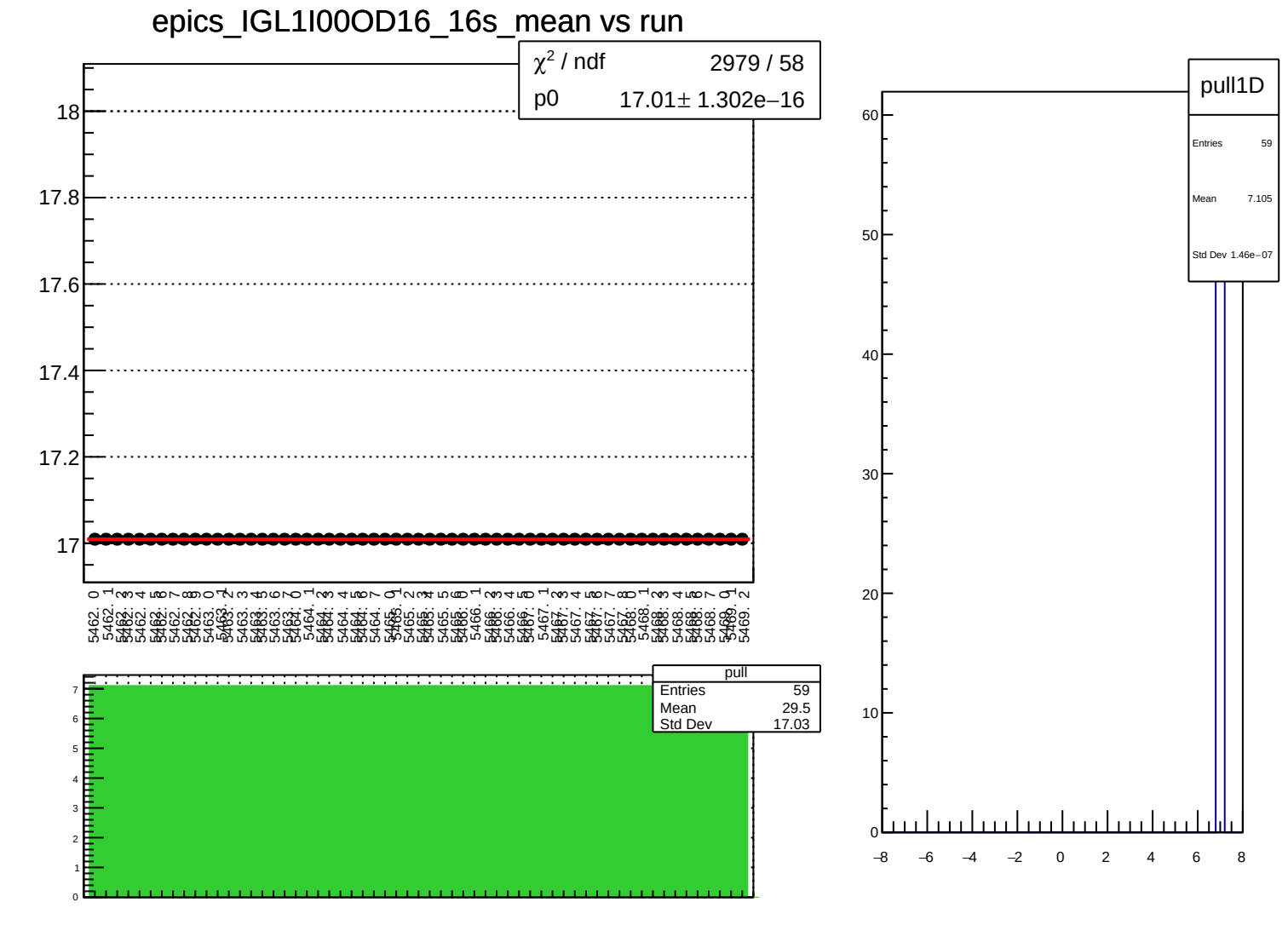

pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

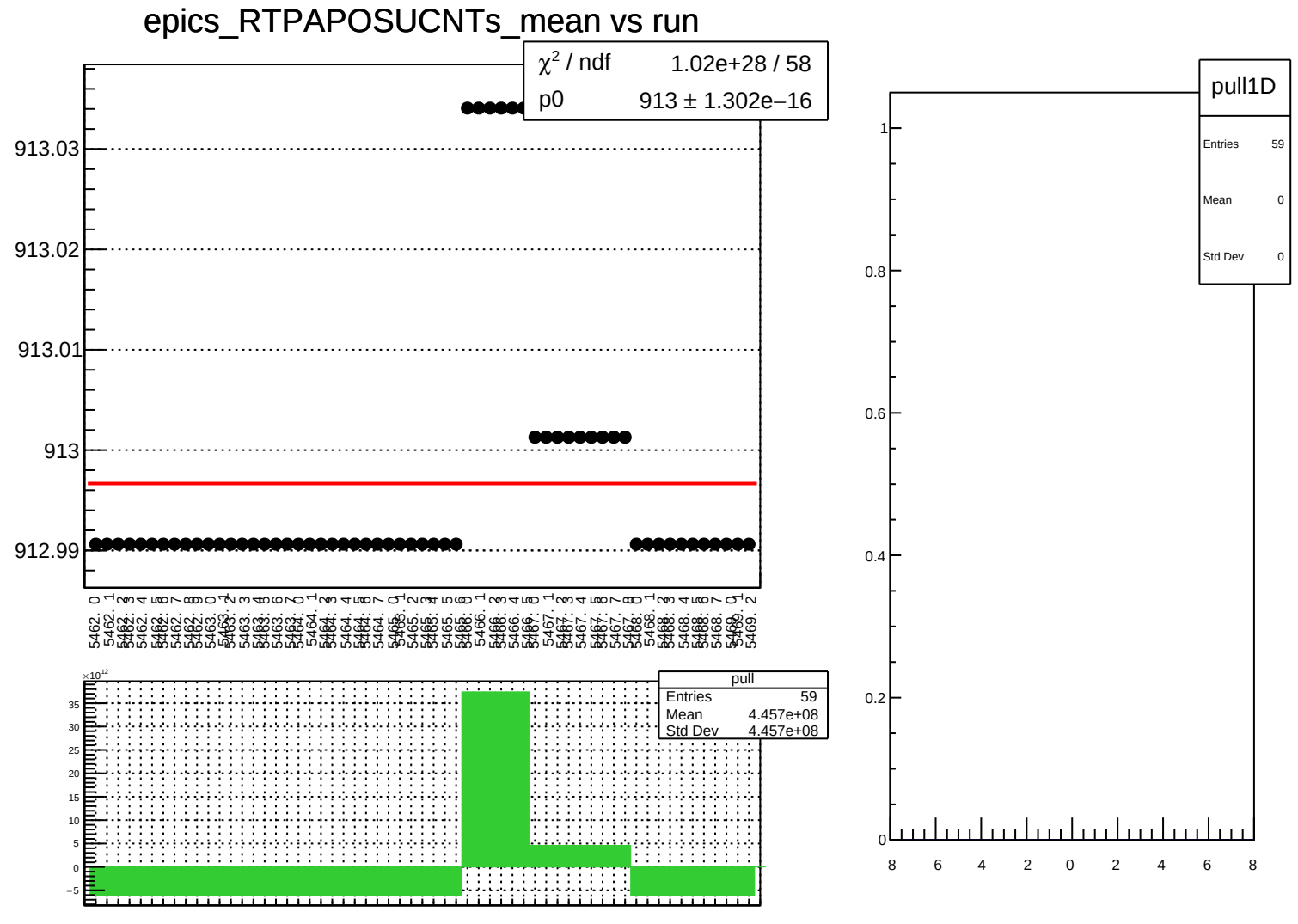

epics_HWienAngles_mean vs run
χ² / ndf 7.447e+04 / 58
p0 −26.4 ± 1.302e−16
−25.4
−25.6
−25.8
−26
−26.2
−26.4
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−5
−10
−15
−20
−25
−30
−35
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

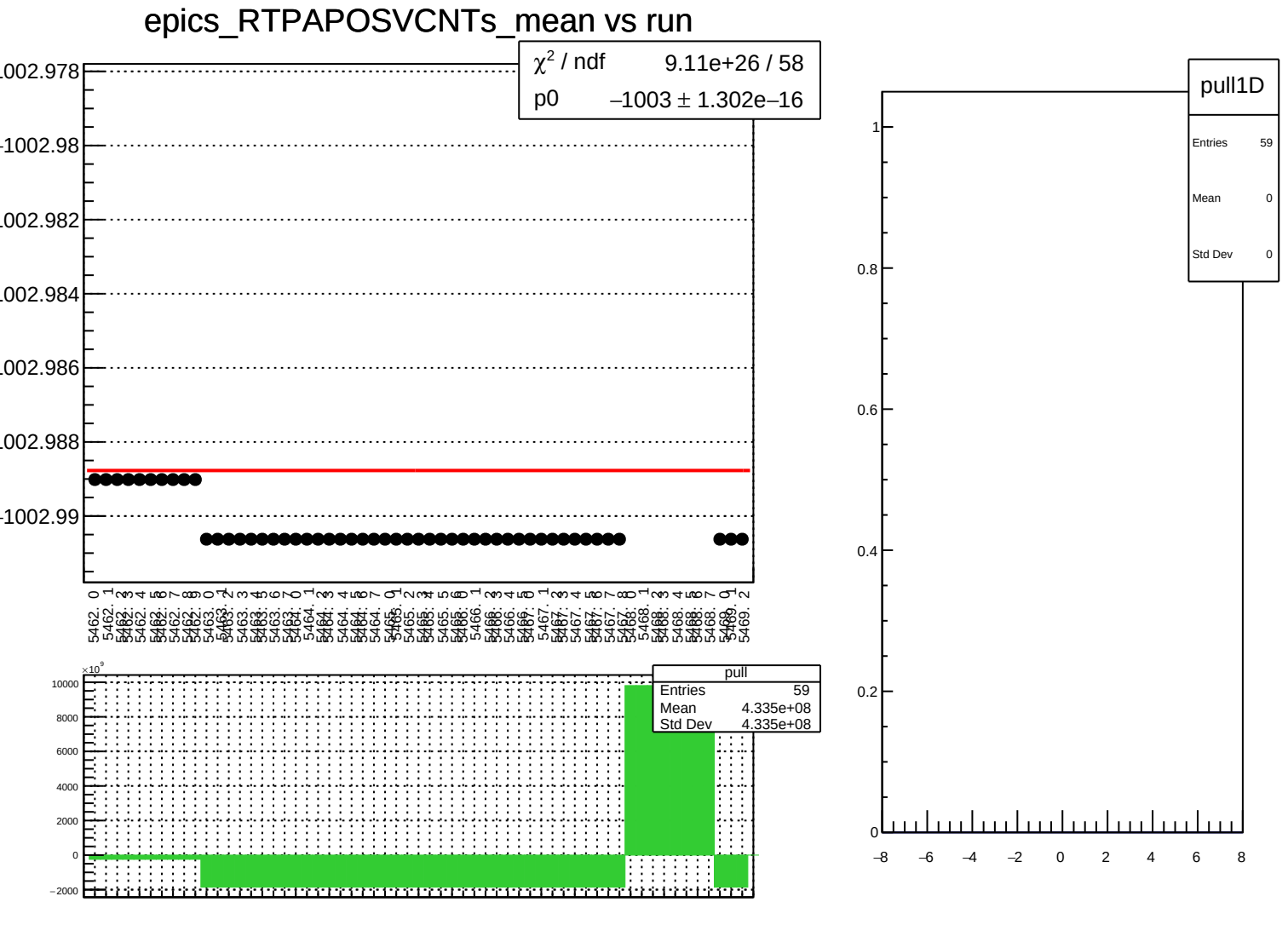

epics_psub_pl_poss_mean vs run
χ² / ndf 3.05e+06 / 58
p0 1500 ± 1.302e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 59
Mean 29.5
Std Dev 17.03
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


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


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.862e+04 / 58
p0 16.01± 1.302e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 59
Mean 29.5
Std Dev 17.03
0
−2
−4
−6
−8
−10
−12
−14
−16
−18
pull1D
Entries 59
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 2979 / 58
p0 17.01± 1.302e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 59
Mean 29.5
Std Dev 17.03
pull1D
Entries 59
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_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.02e+28 / 58
p0 913 ± 1.302e−16
913.03
913.02
913.01
913
912.99
pull
Entries 59
Mean 4.457e+08
Std Dev 4.457e+08
pull1D
Entries 59
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 9.11e+26 / 58
p0 −1003 ± 1.302e−16
pull
Entries 59
Mean 4.335e+08
Std Dev 4.335e+08
pull1D
Entries 59
Mean 0
Std Dev 0