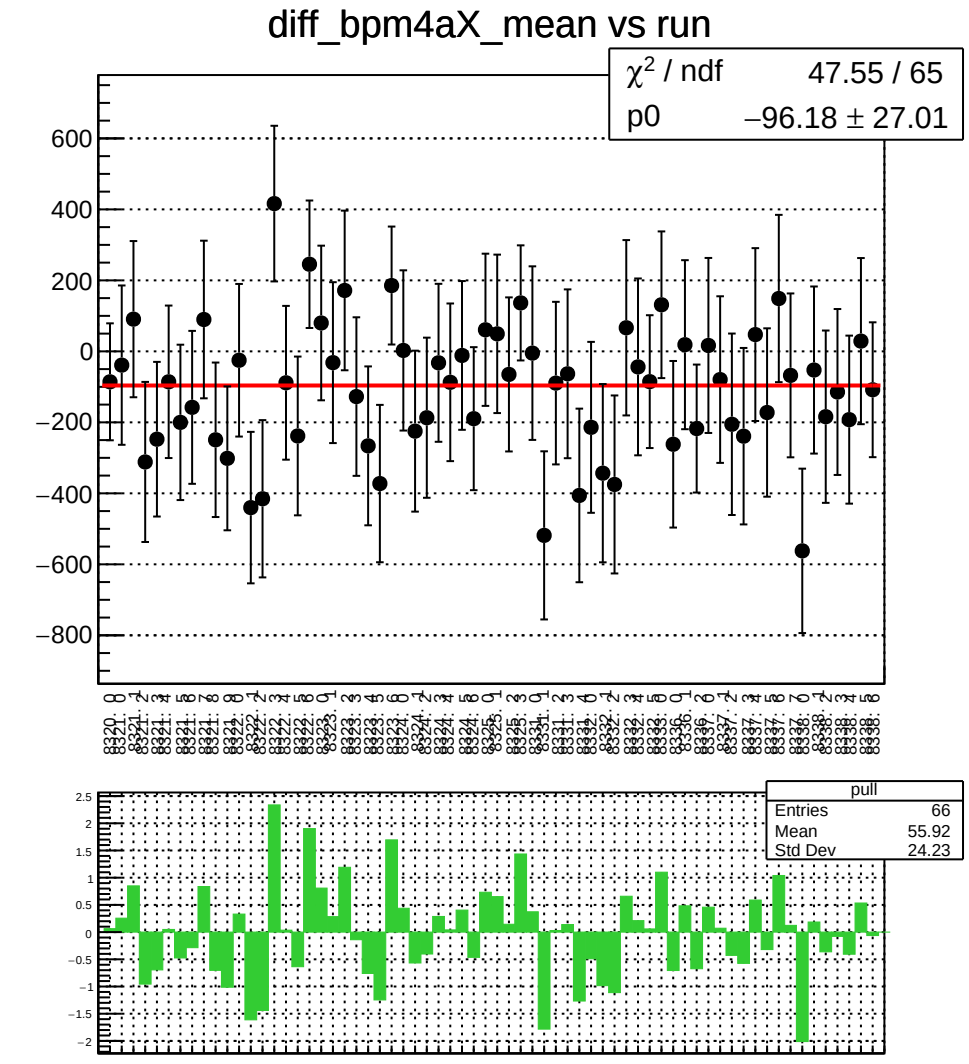
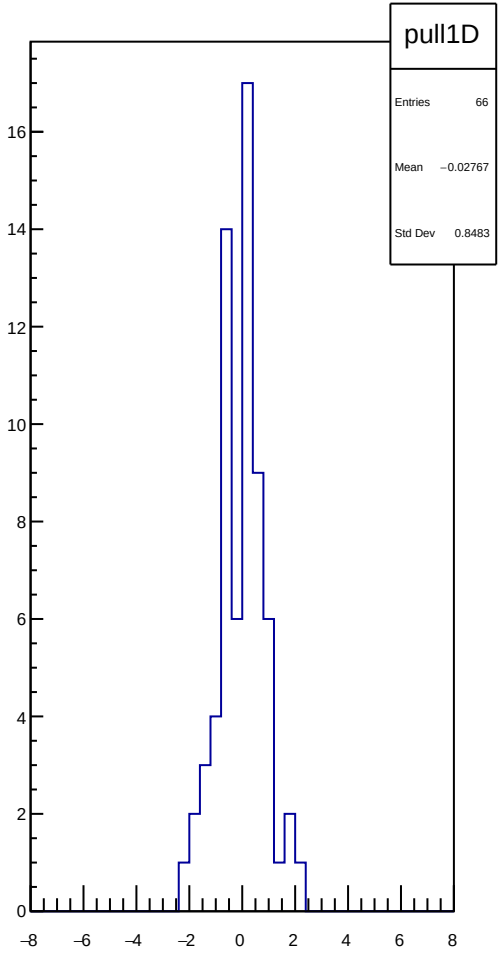
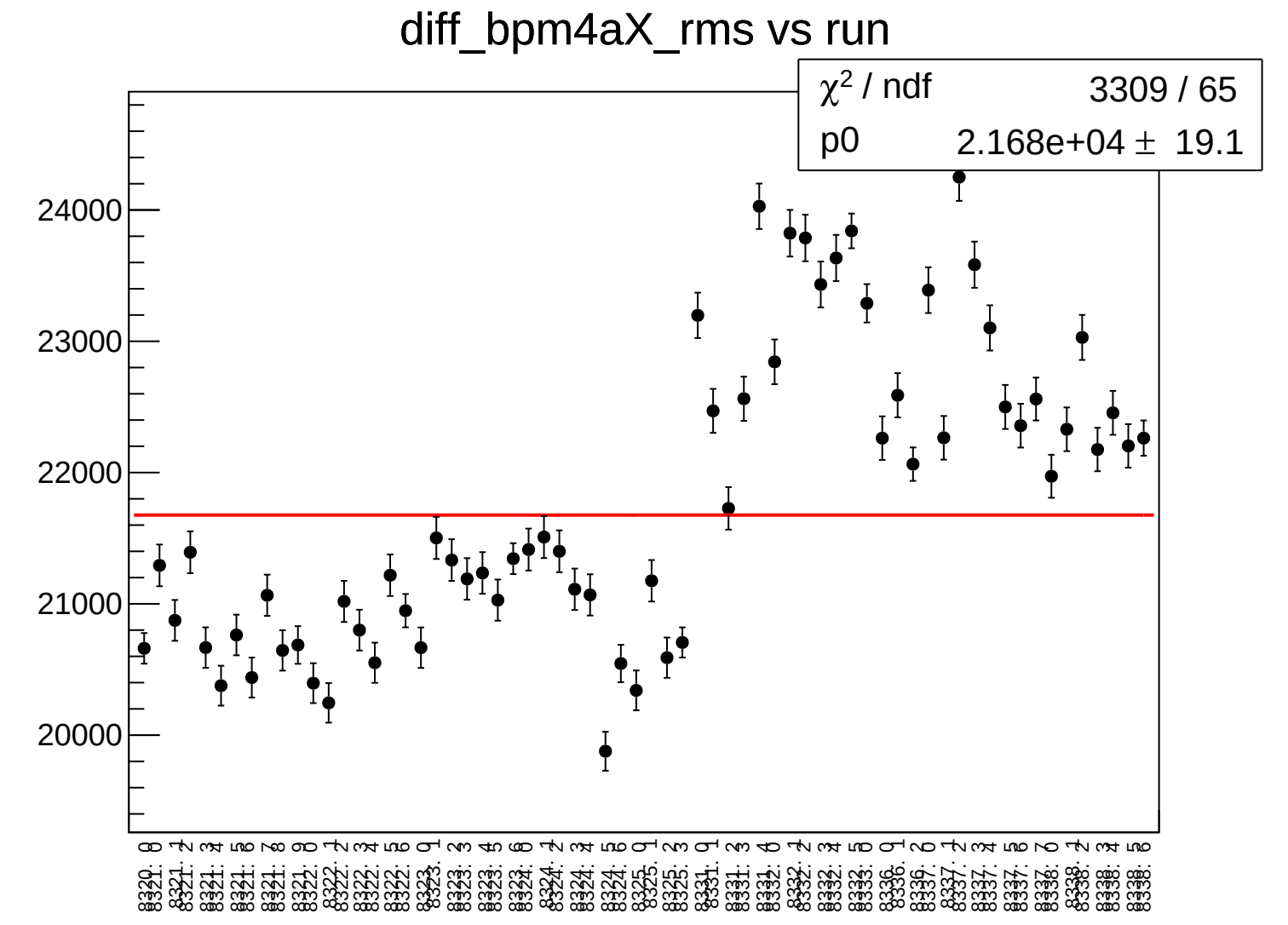
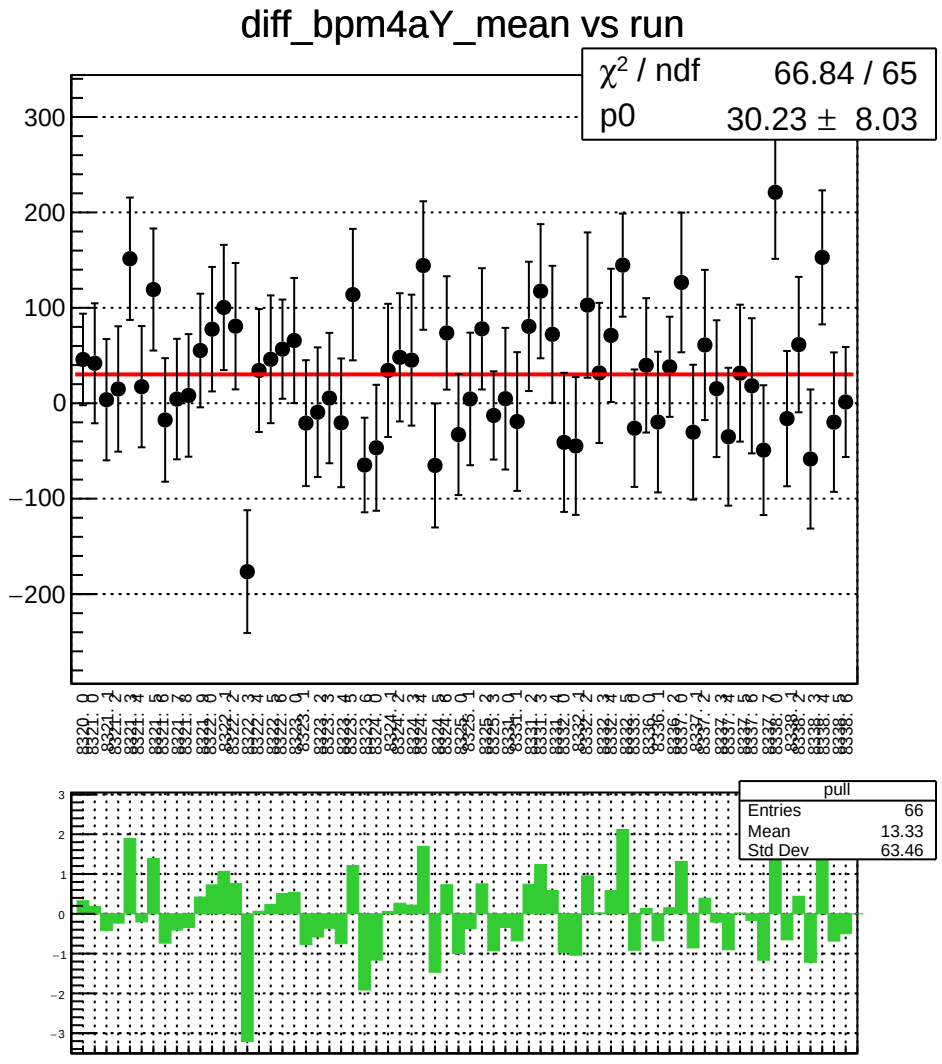
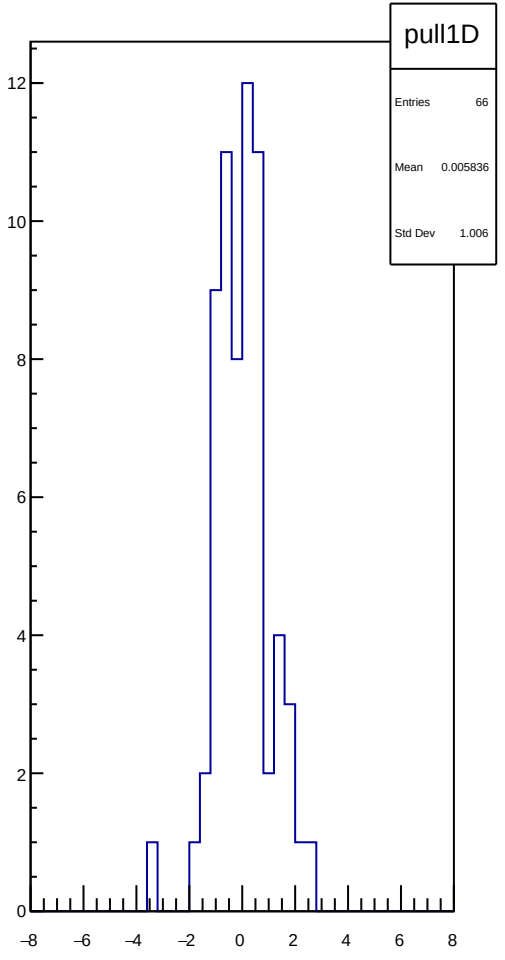
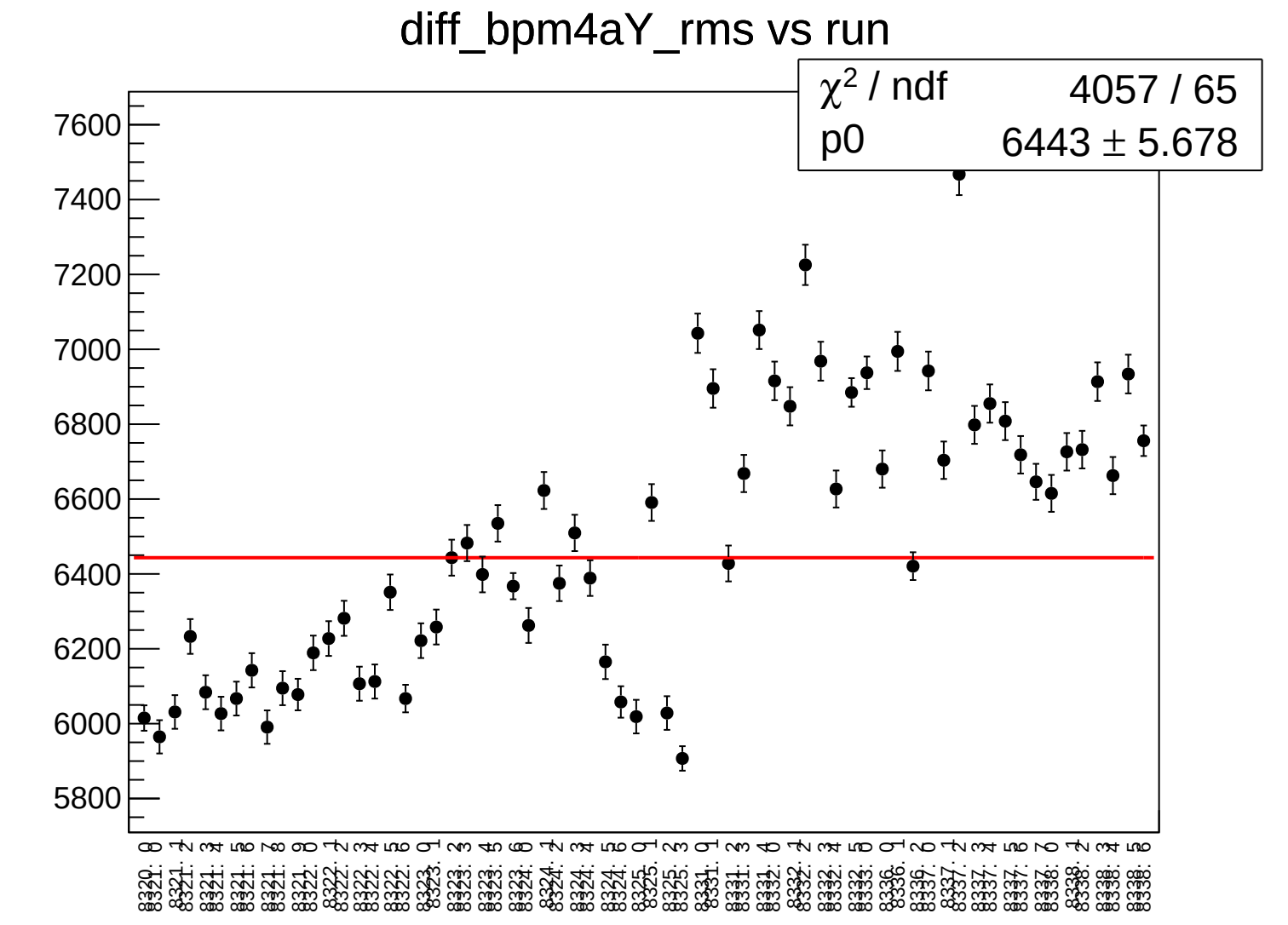

diff_bpm4aX_mean vs run
χ² / ndf 47.55 / 65
p0 −96.18 ± 27.01
pull
Entries 66
Mean 55.92
Std Dev 24.23

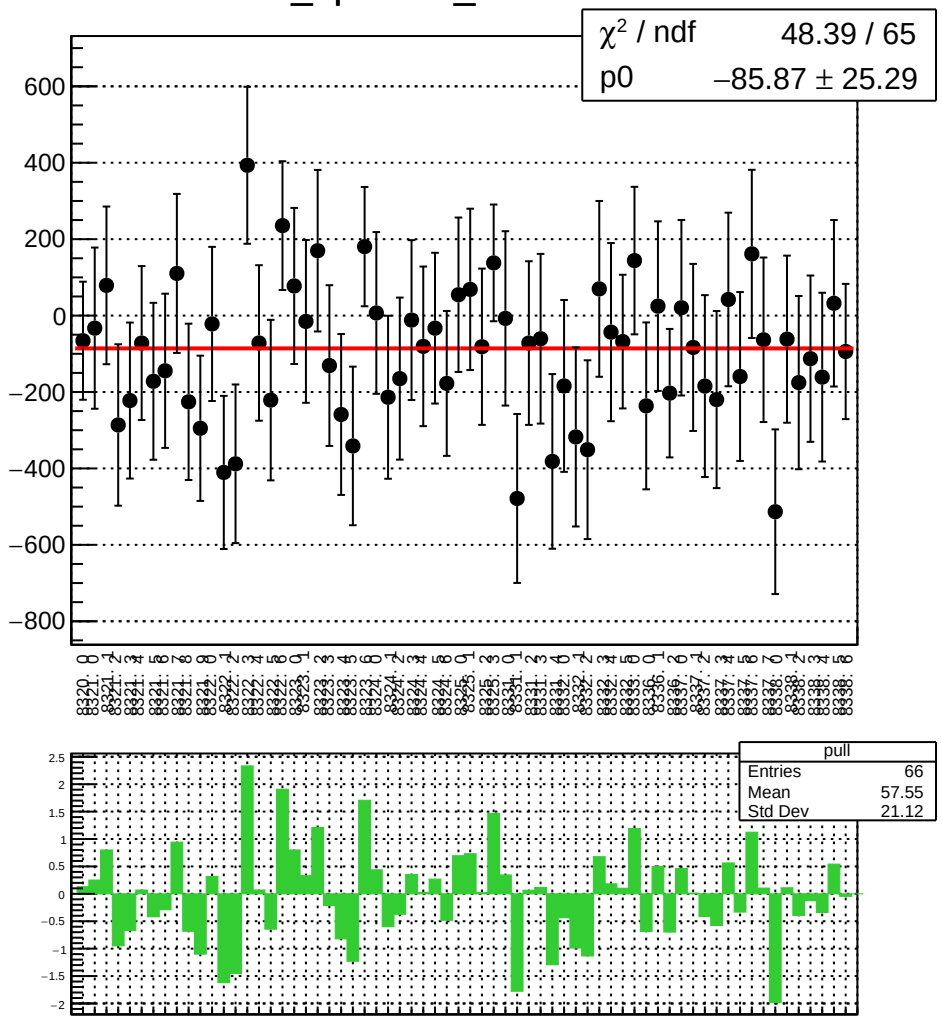

pull1D
Entries 66
Mean −0.02767
Std Dev 0.8483

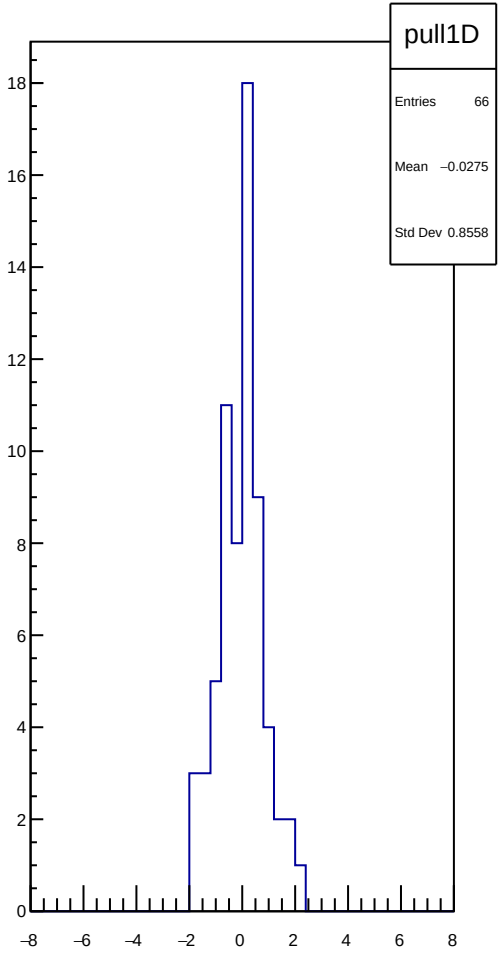

diff_bpm4aX_rms vs run
χ² / ndf 3309 / 65
p0 2.168e+04 ± 19.1
24000
23000
22000
21000
20000

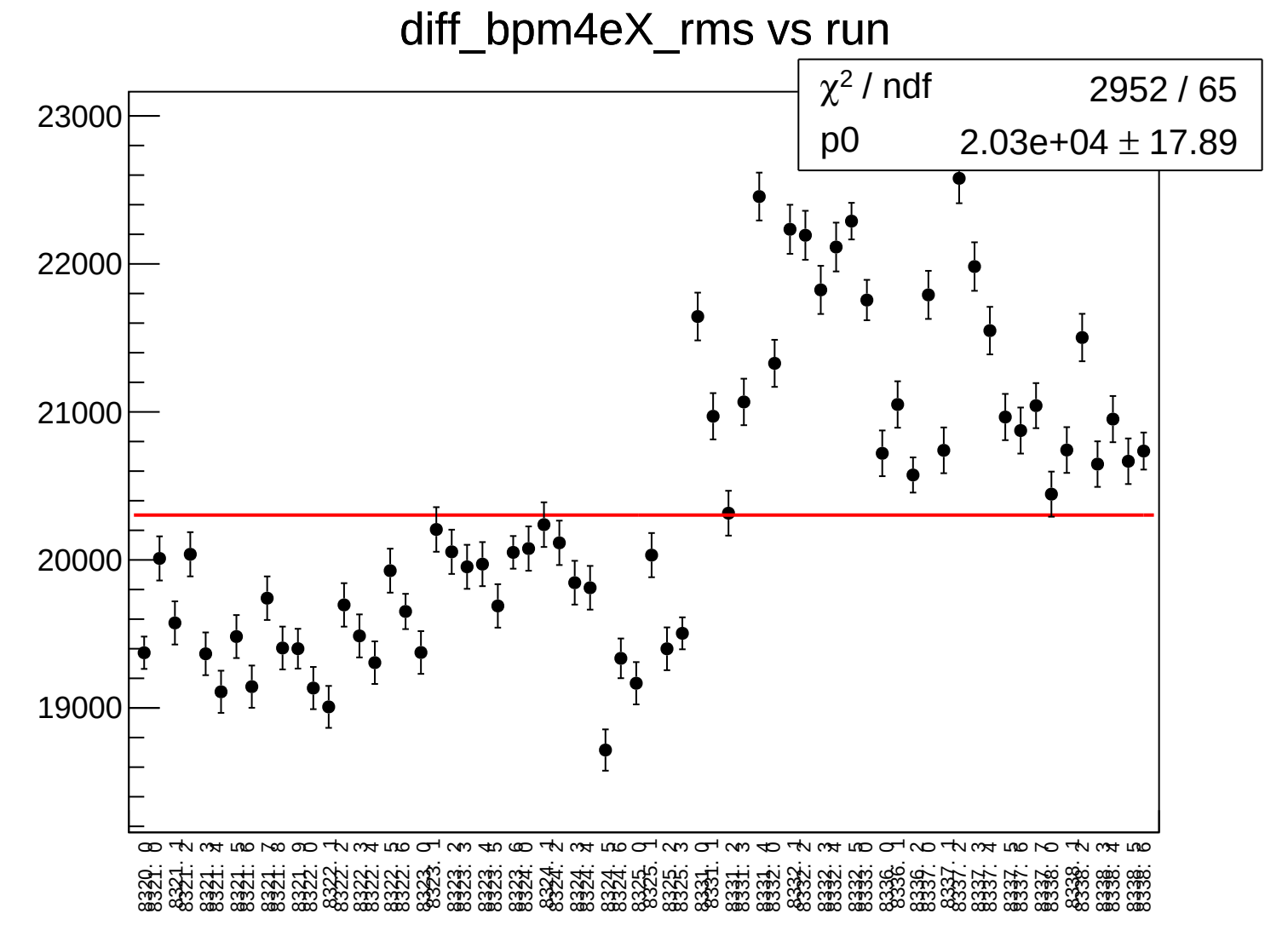

diff_bpm4aY_mean vs run
χ² / ndf 66.84 / 65
p0 30.23 ± 8.03
300
200
100
0
−100
−200
pull
Entries 66
Mean 13.33
Std Dev 63.46
3
2
1
0
−1
−2
−3

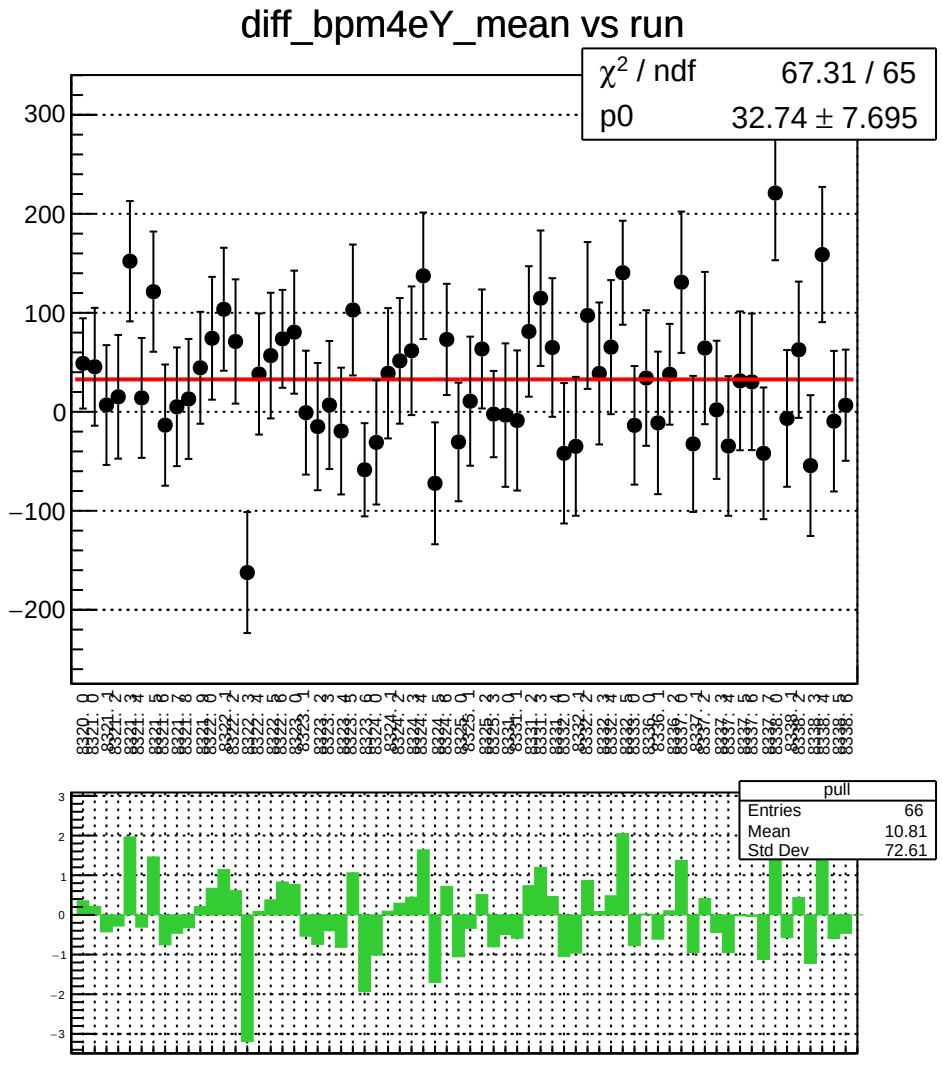

pull1D
Entries 66
Mean 0.005836
Std Dev 1.006
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

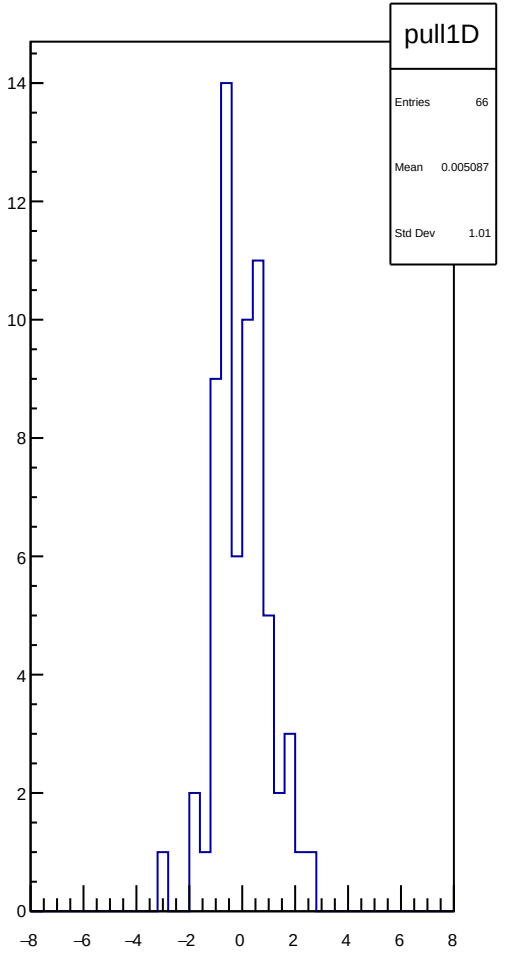

diff_bpm4aY_rms vs run
χ² / ndf 4057 / 65
p0 6443 ± 5.678
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

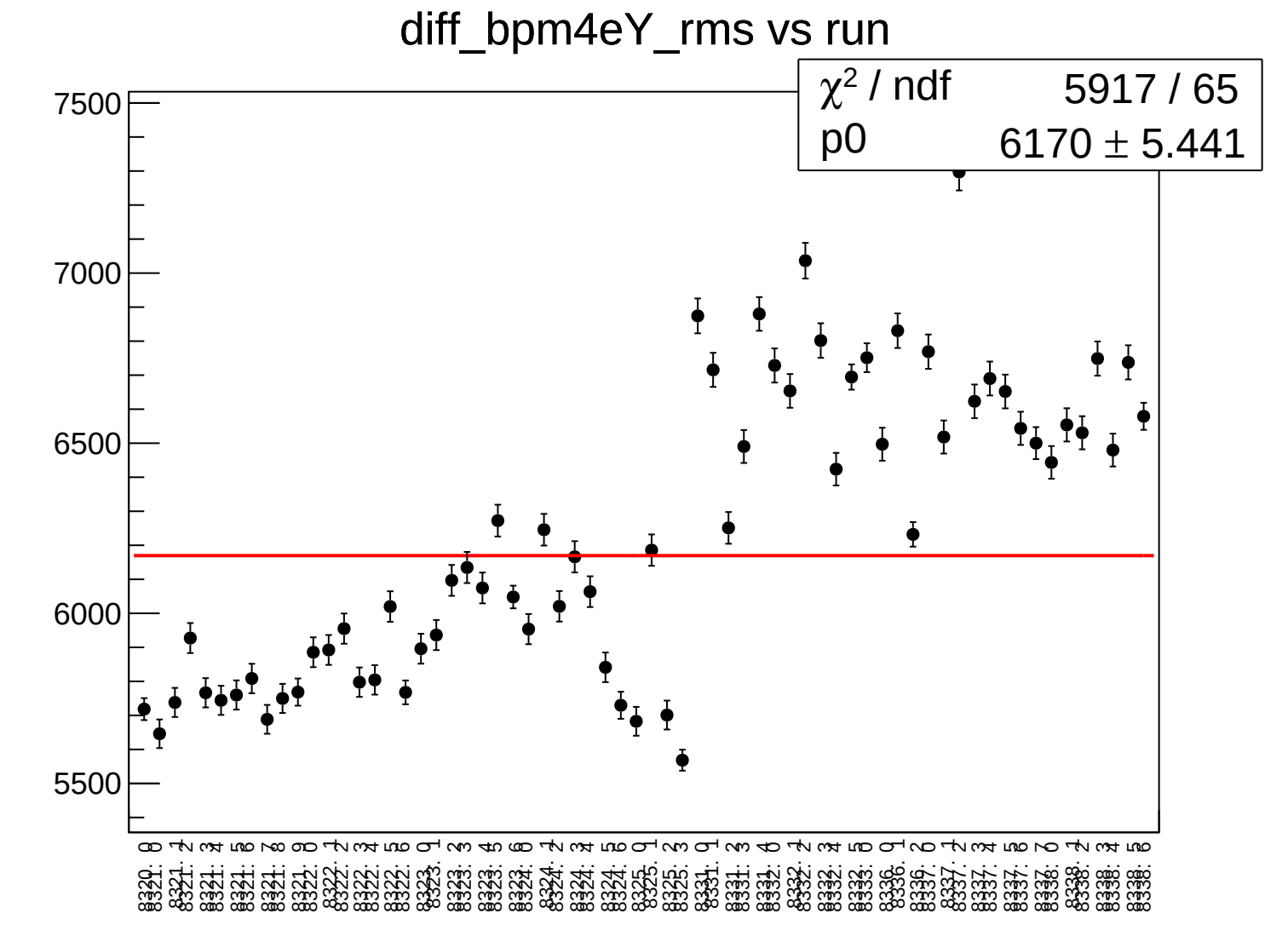

diff_bpm4eX_mean vs run
χ² / ndf 48.39 / 65
p0 −85.87 ± 25.29
pull
Entries 66
Mean 57.55
Std Dev 21.12

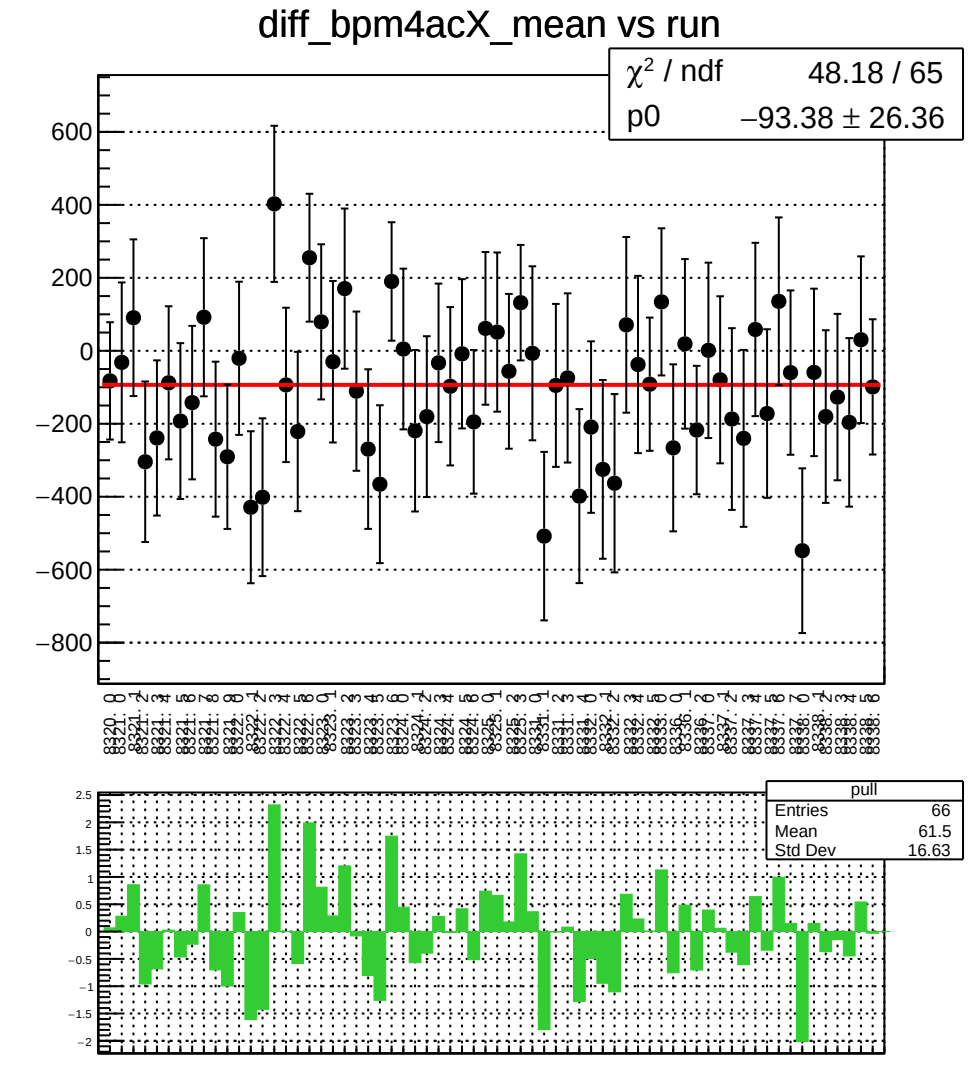

pull1D
Entries 66
Mean −0.0275
Std Dev 0.8558

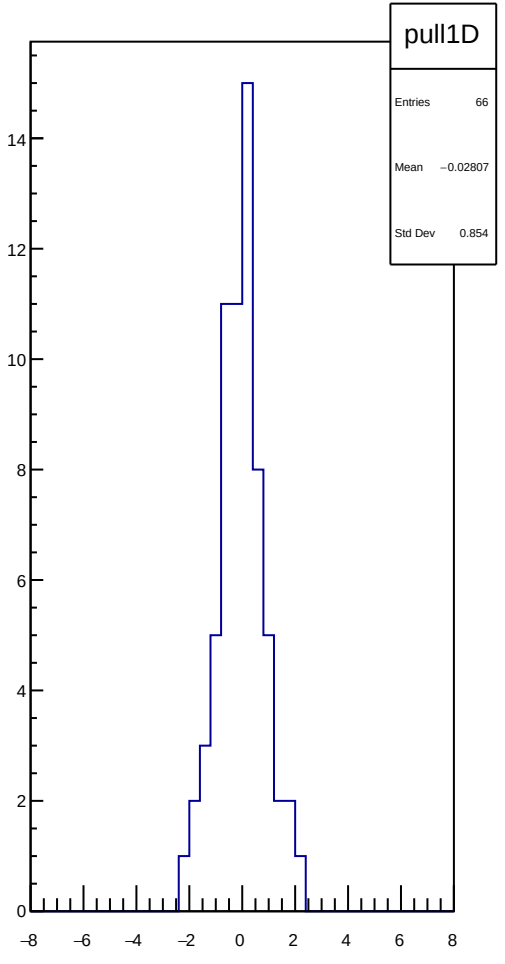

diff_bpm4eX_rms vs run
χ² / ndf 2952 / 65
p0 2.03e+04 ± 17.89
23000
22000
21000
20000
19000

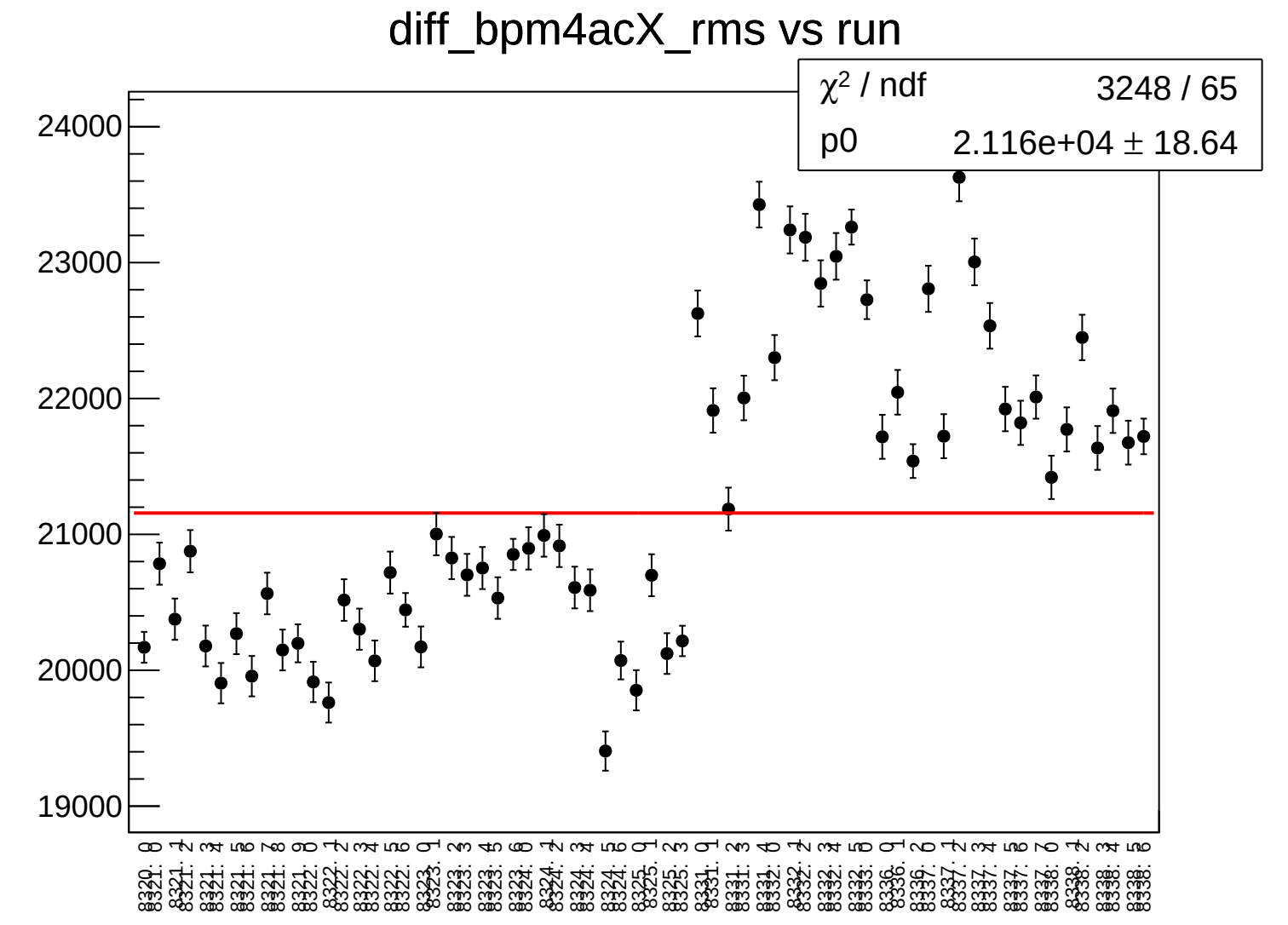

diff_bpm4eY_mean vs run
χ² / ndf 67.31 / 65
p0 32.74 ± 7.695
pull
Entries 66
Mean 10.81
Std Dev 72.61

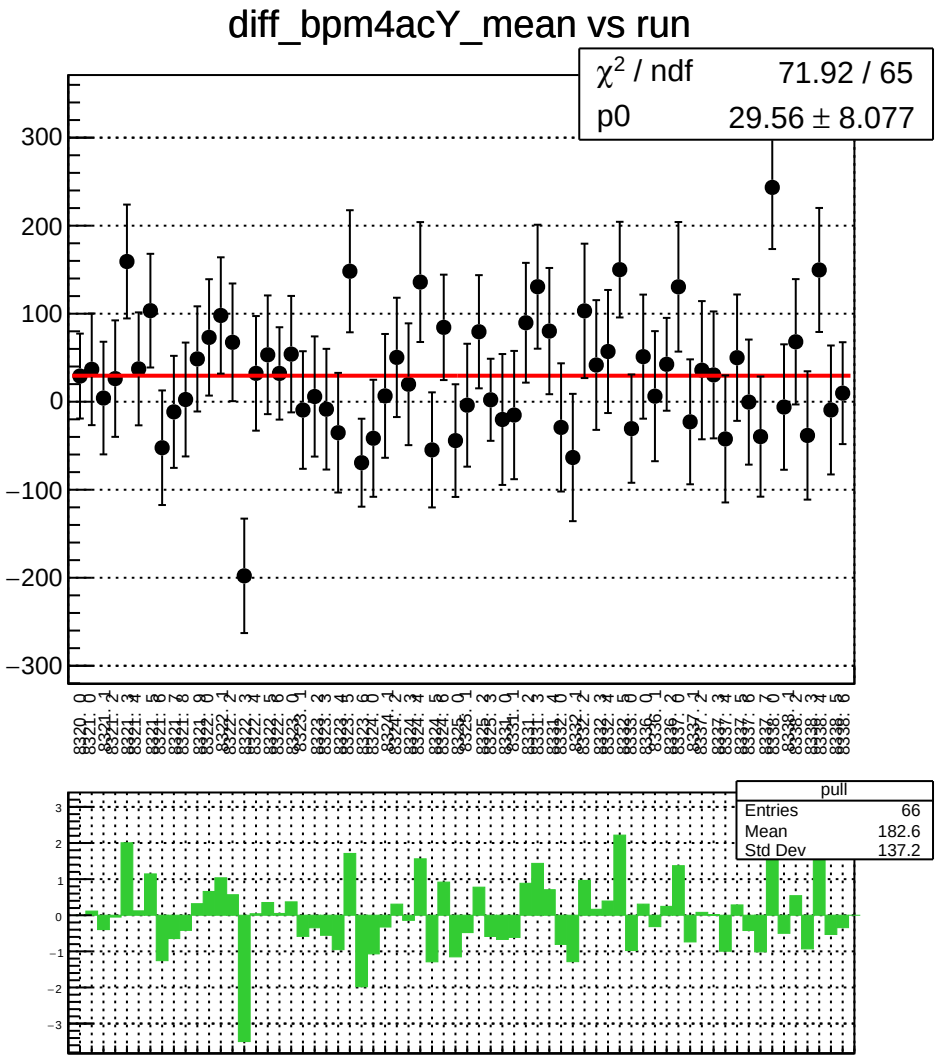

pull1D
Entries 66
Mean 0.005087
Std Dev 1.01

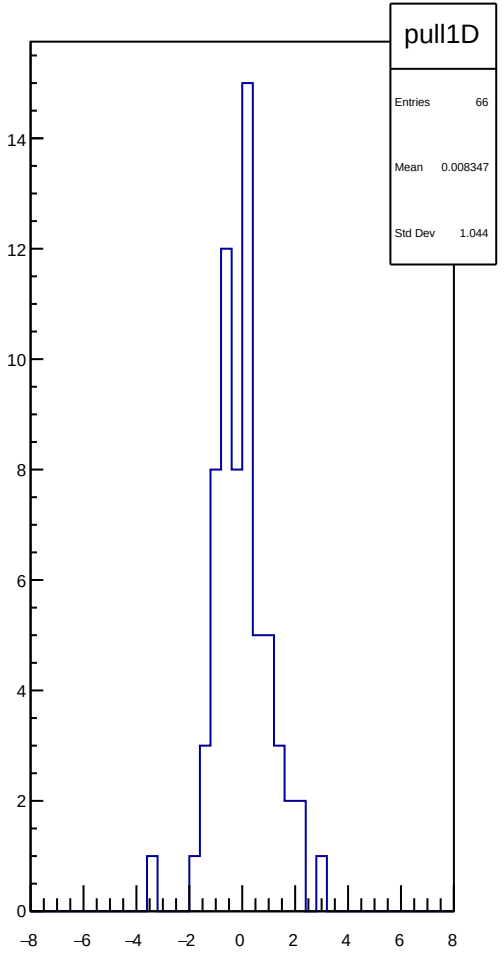

diff_bpm4eY_rms vs run
χ² / ndf 5917 / 65
p0 6170 ± 5.441
7500
7000
6500
6000
5500

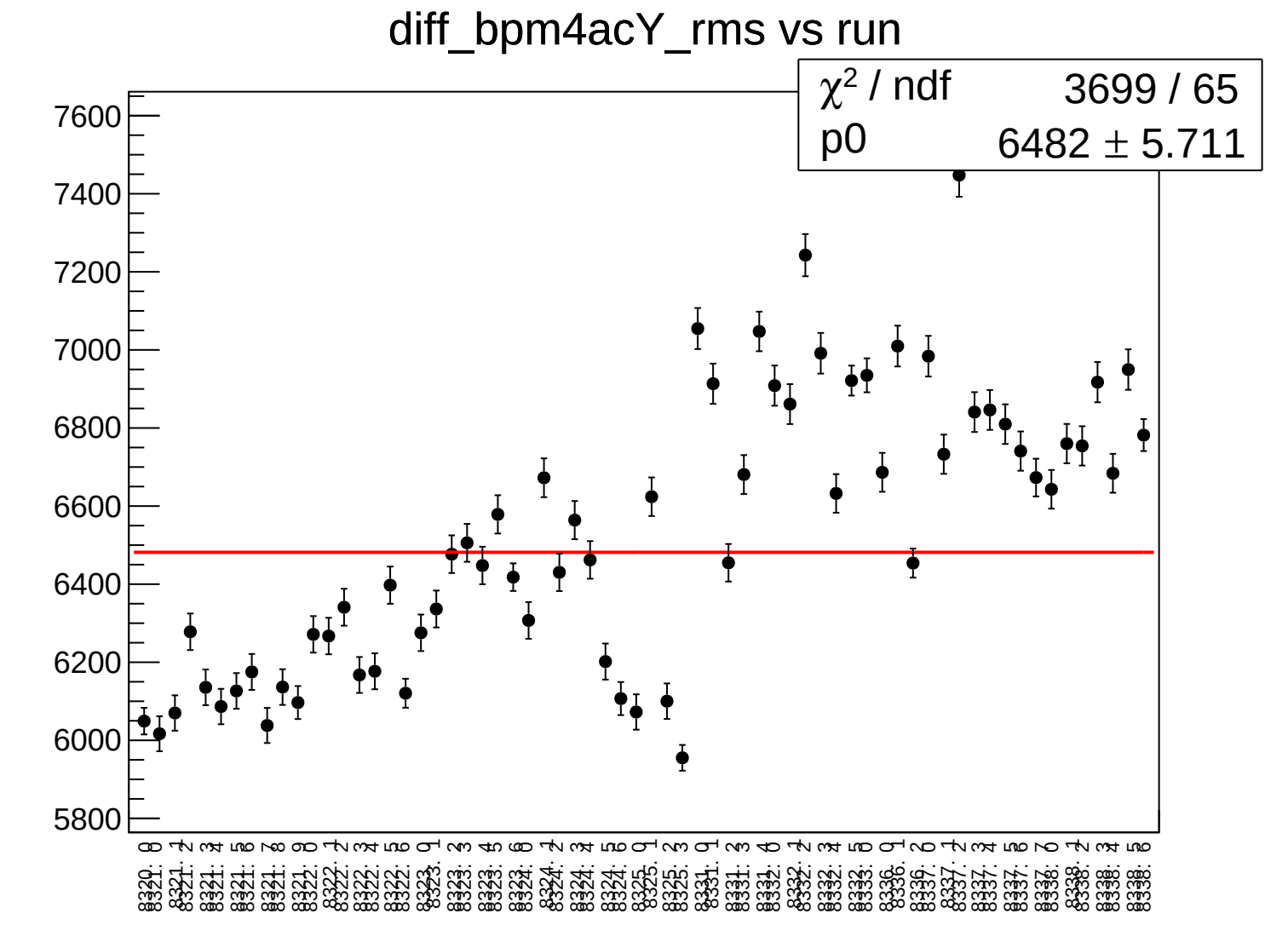

diff_bpm4acX_mean vs run
χ² / ndf 48.18 / 65
p0 −93.38 ± 26.36
pull
Entries 66
Mean 61.5
Std Dev 16.63

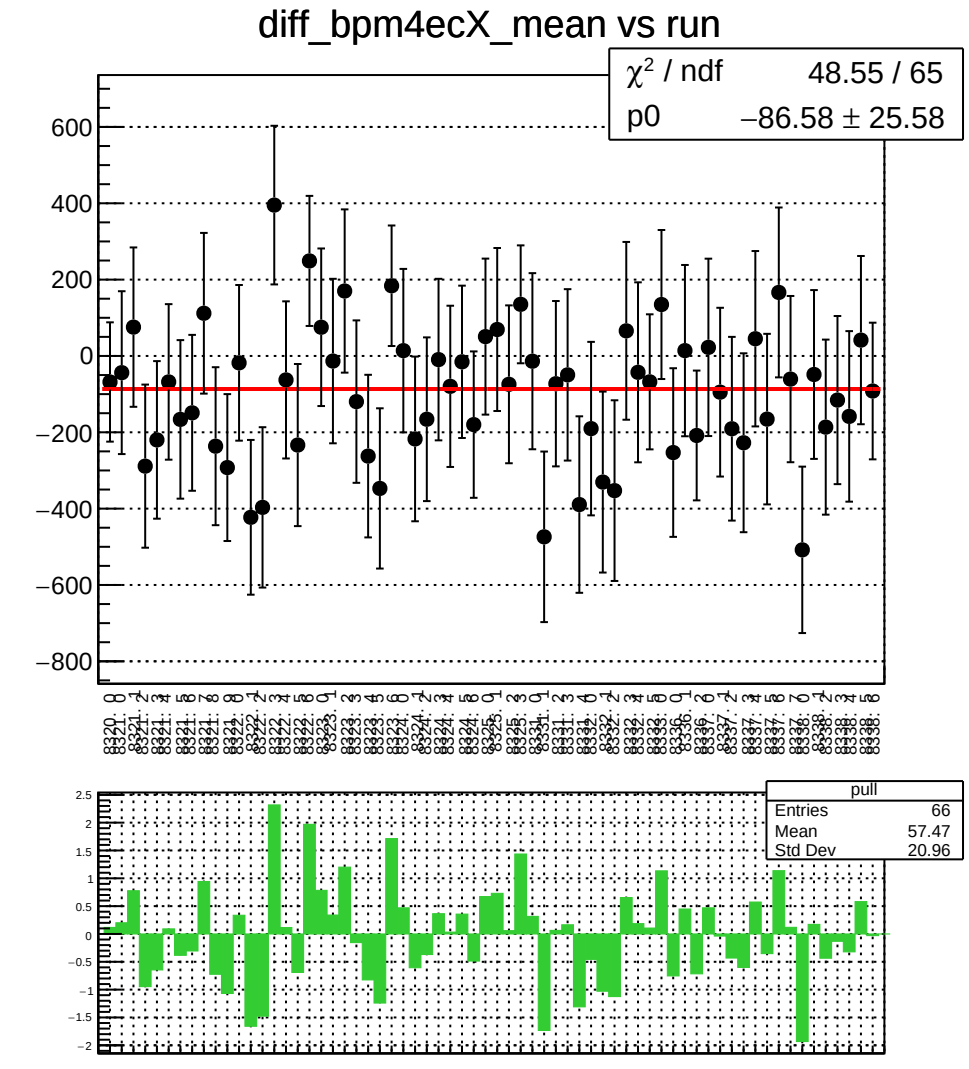

pull1D
Entries 66
Mean −0.02807
Std Dev 0.854

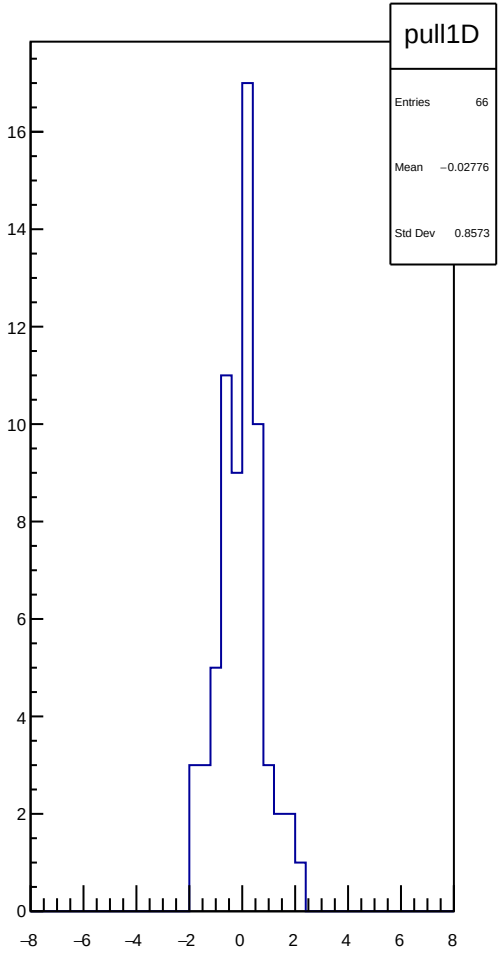

diff_bpm4acX_rms vs run
χ² / ndf 3248 / 65
p0 2.116e+04 ± 18.64
24000
23000
22000
21000
20000
19000

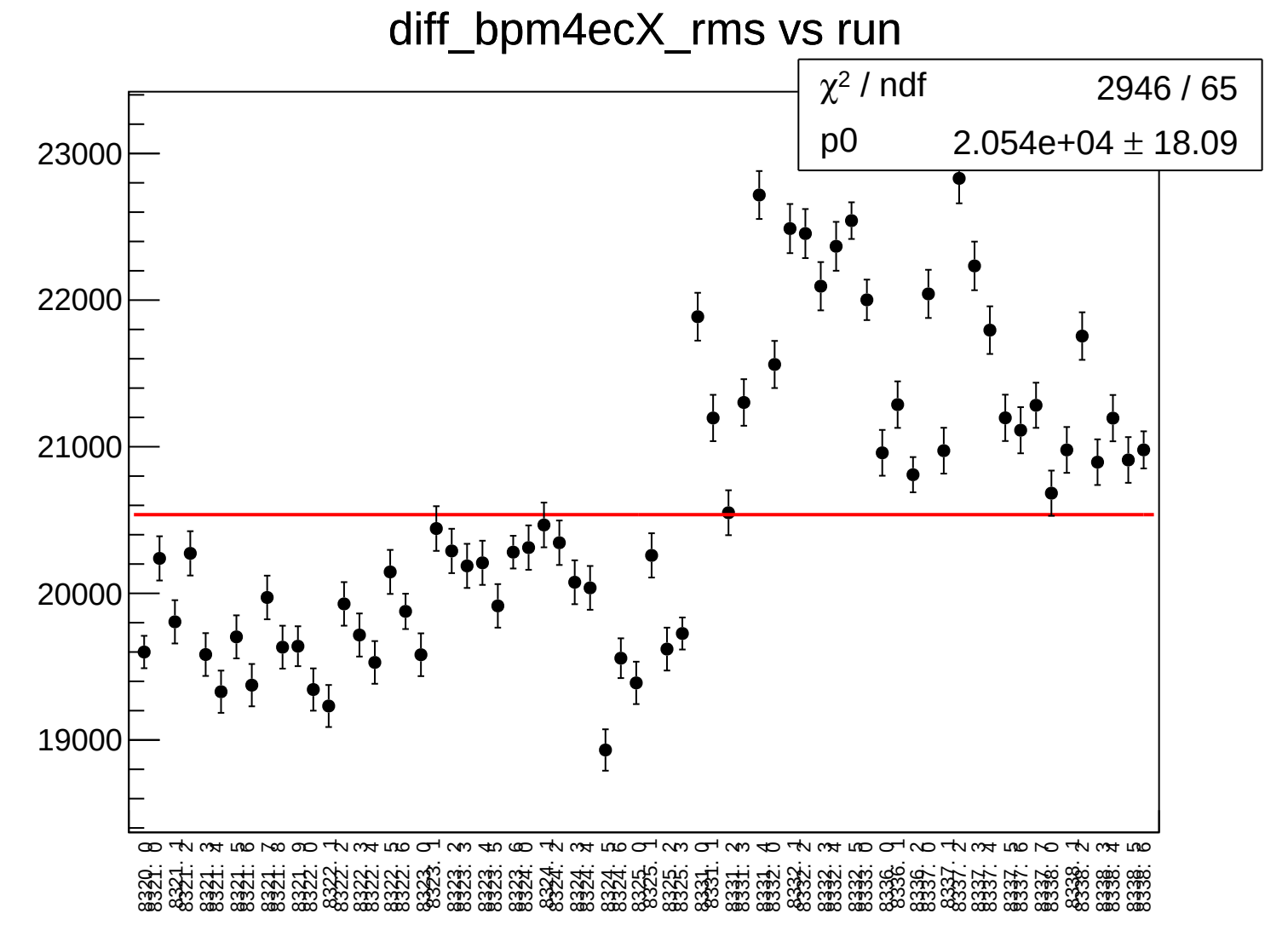

diff_bpm4acY_mean vs run
χ^2 / ndf 71.92 / 65
p0 29.56 ± 8.077
pull
Entries 66
Mean 182.6
Std Dev 137.2

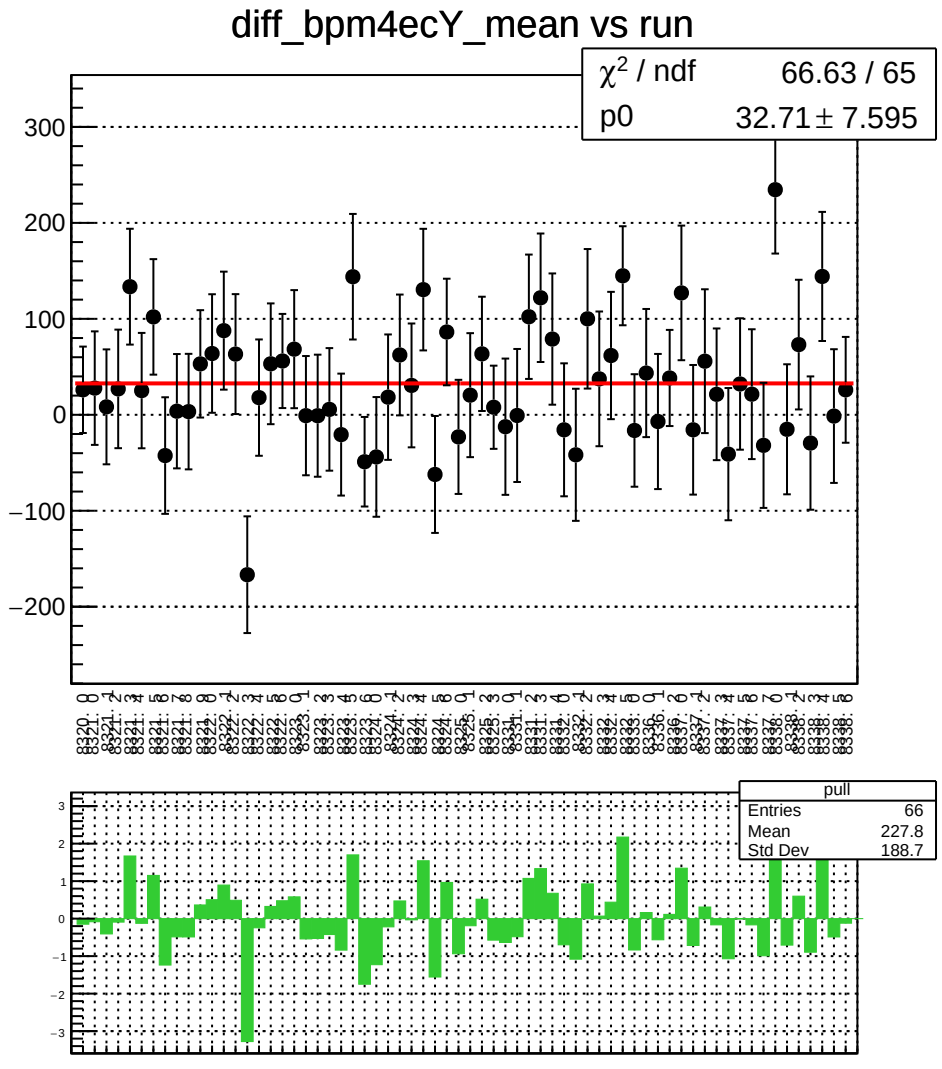

pull1D
Entries 66
Mean 0.008347
Std Dev 1.044

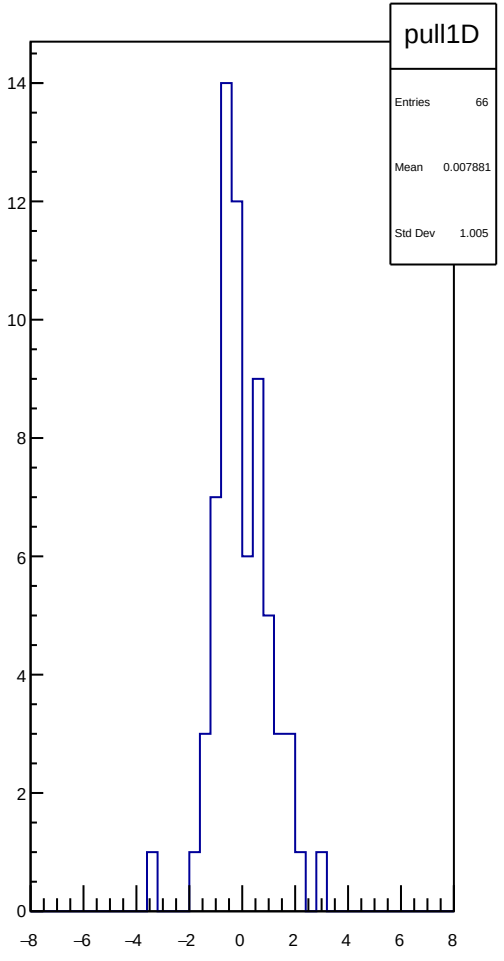

diff_bpm4acY_rms vs run
χ² / ndf 3699 / 65
p0 6482 ± 5.711
7600
7400
7200
7000
6800
6600
6400
6200
6000
5800

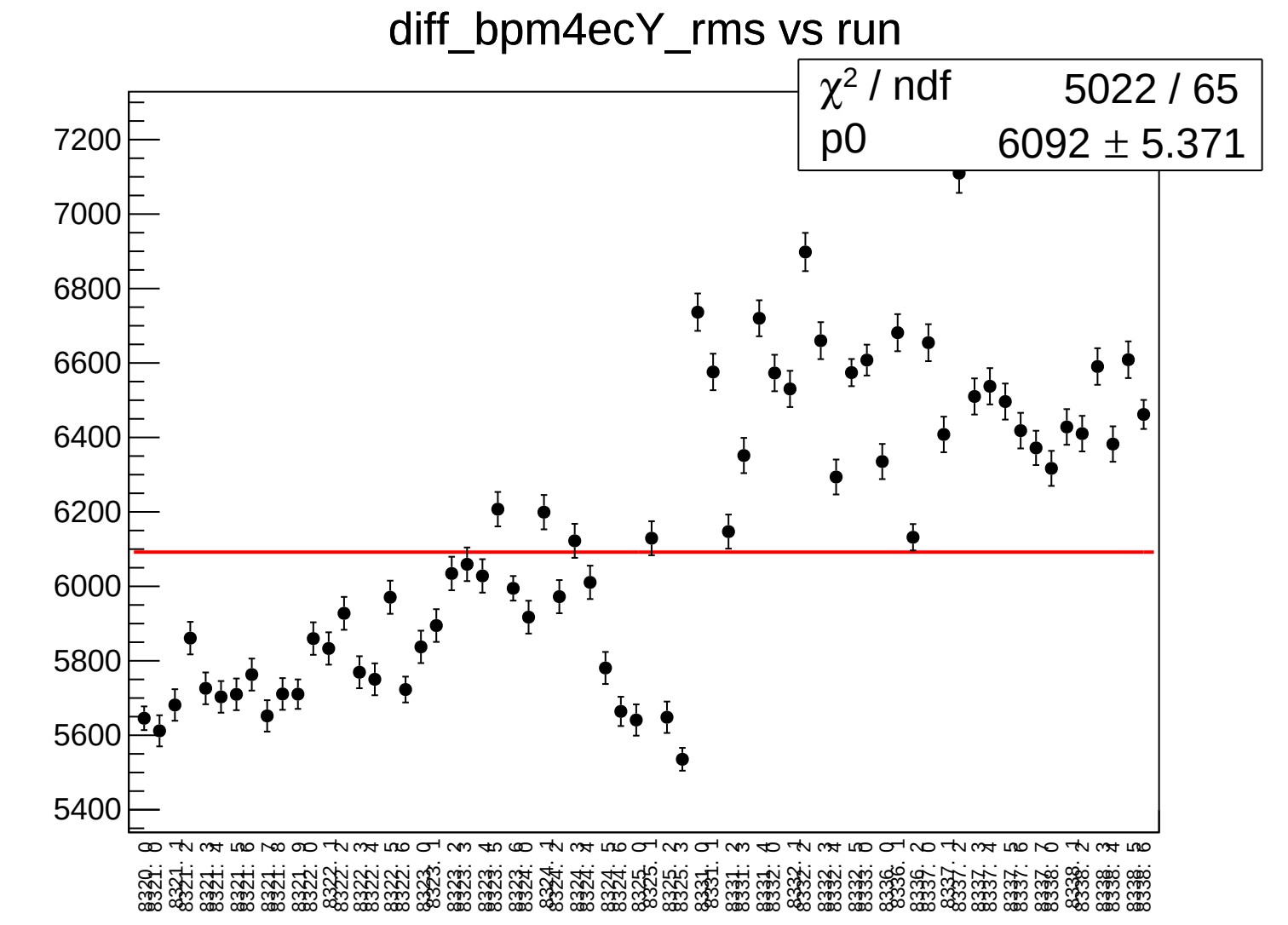

diff_bpm4ecX_mean vs run
χ² / ndf 48.55 / 65
p0 −86.58 ± 25.58
pull
Entries 66
Mean 57.47
Std Dev 20.96

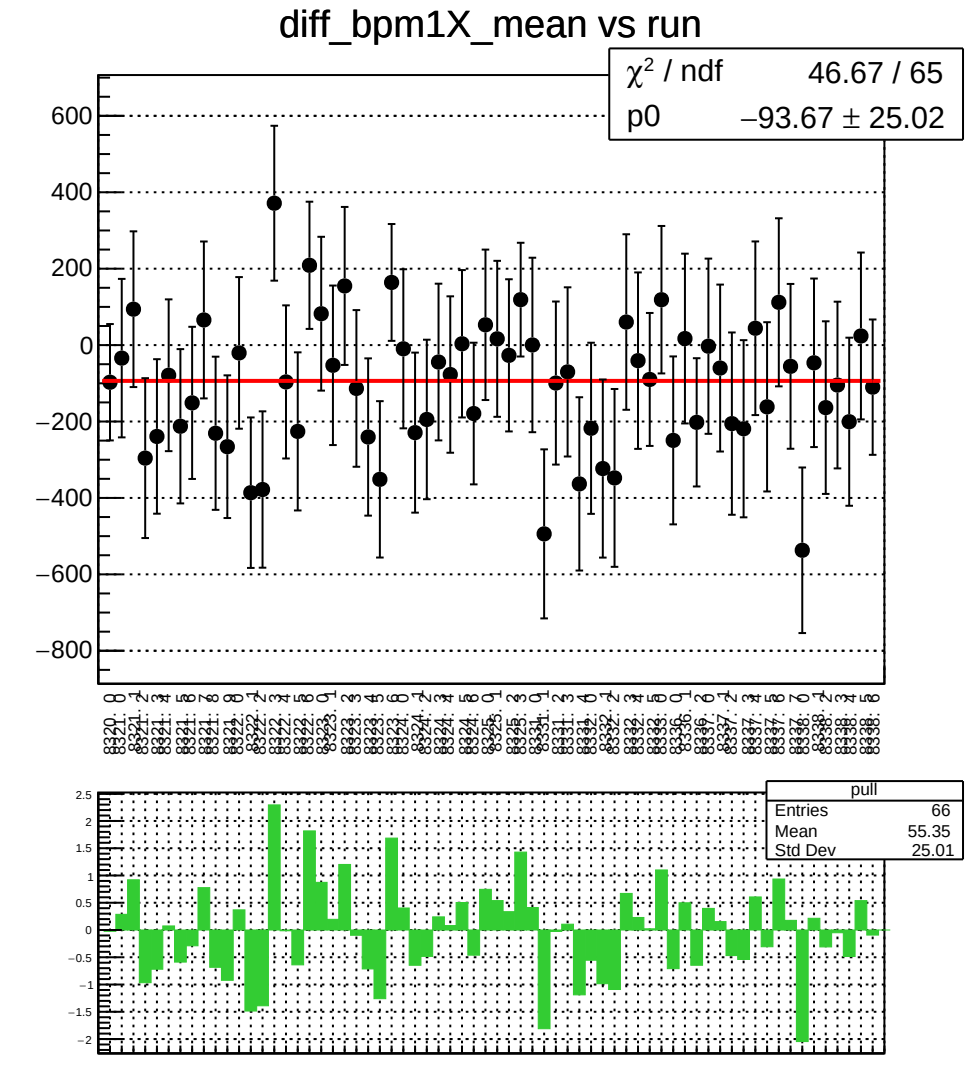

pull1D
Entries 66
Mean −0.02776
Std Dev 0.8573

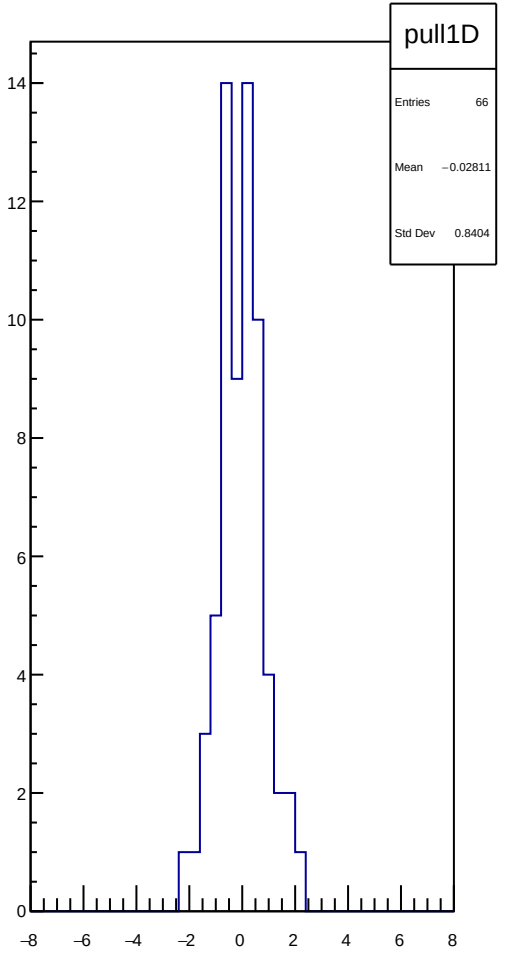

diff_bpm4ecX_rms vs run
χ² / ndf 2946 / 65
p0 2.054e+04 ± 18.09
23000
22000
21000
20000
19000

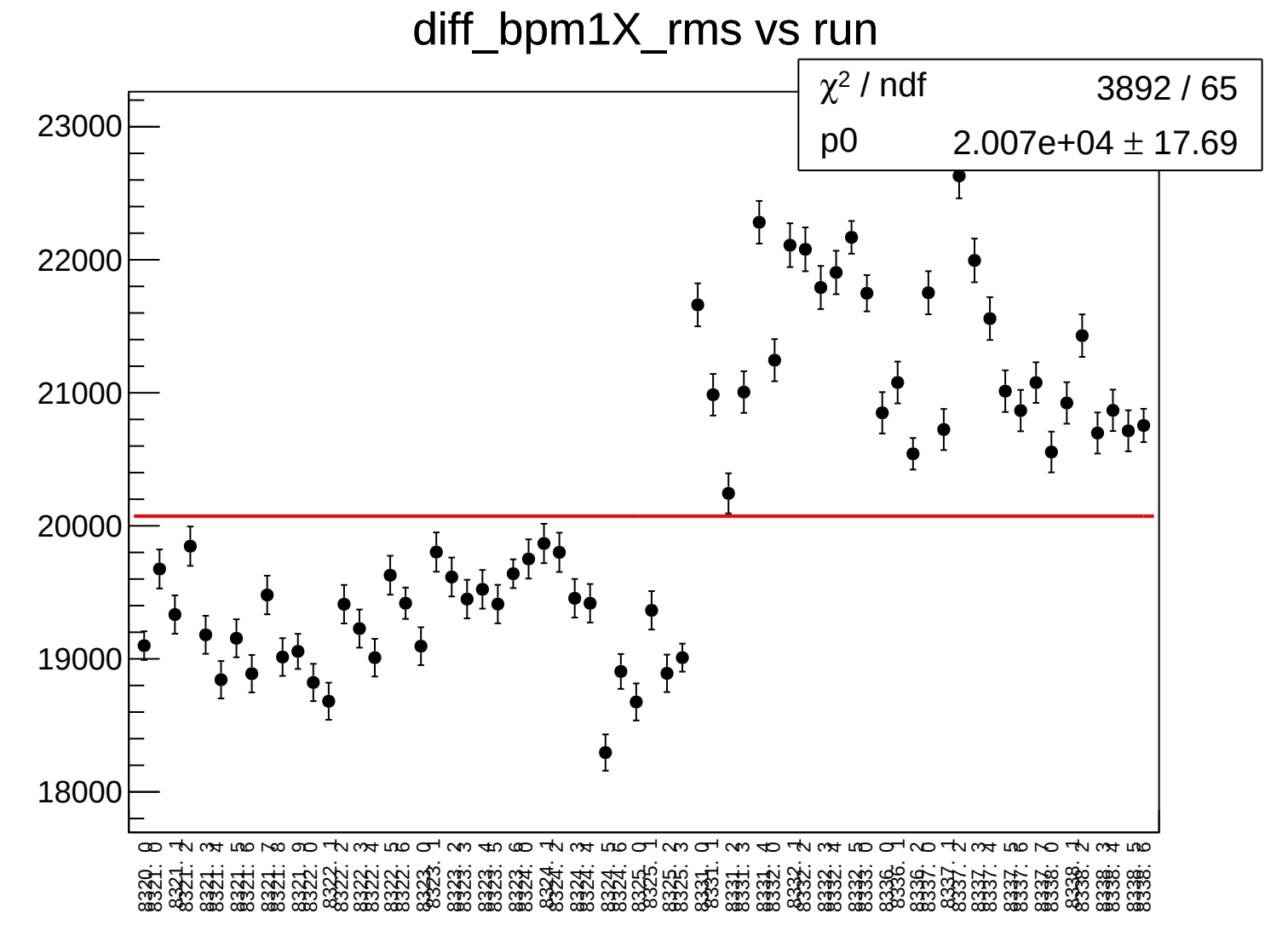

diff_bpm4ecY_mean vs run
χ² / ndf 66.63 / 65
p0 32.71 ± 7.595
300
200
100
0
−100
−200
pull
Entries 66
Mean 227.8
Std Dev 188.7
3
2
1
0
−1
−2
−3

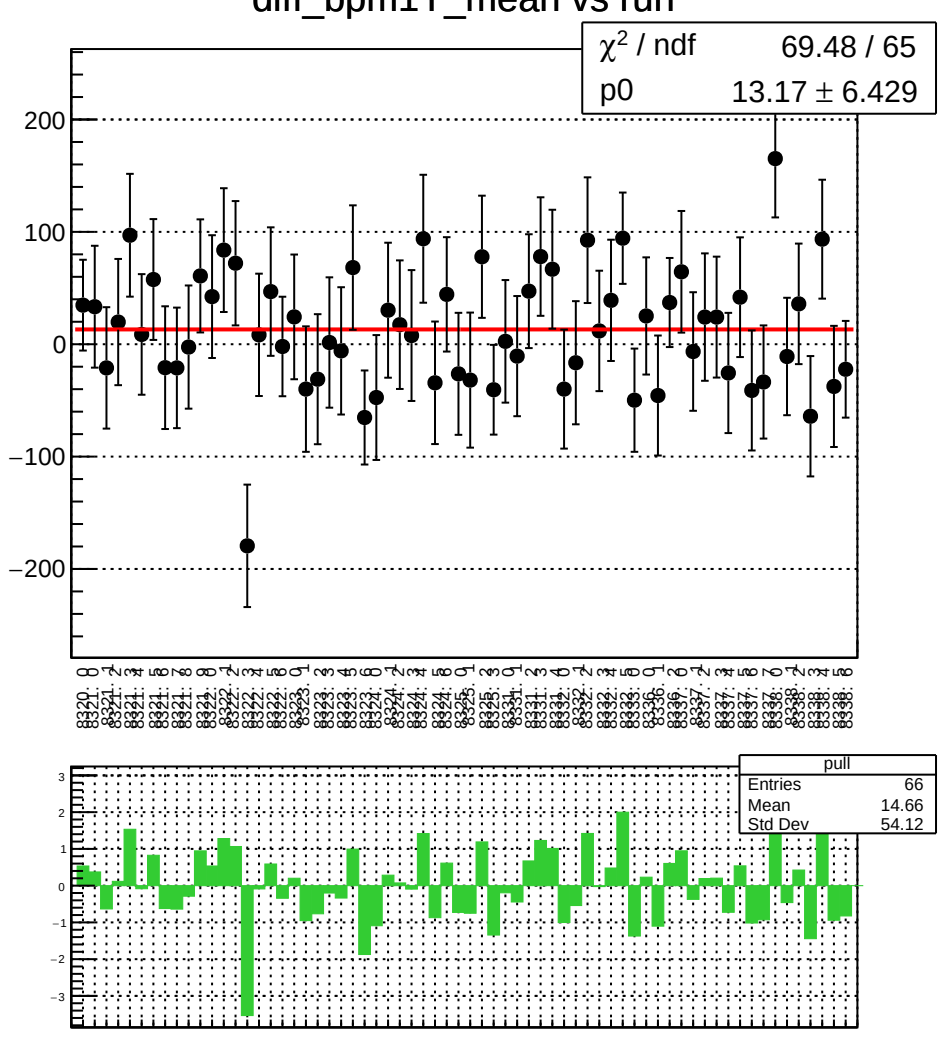

pull1D
Entries 66
Mean 0.007881
Std Dev 1.005
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

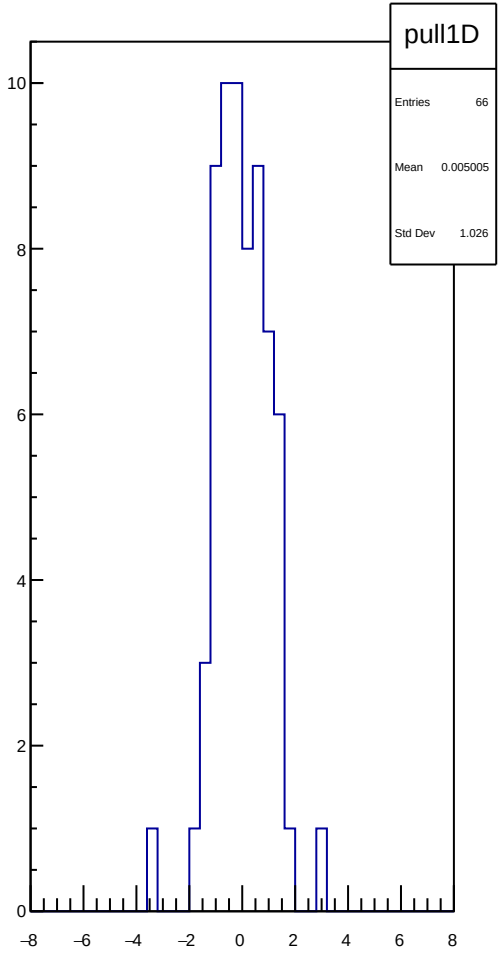

diff_bpm4ecY_rms vs run
χ² / ndf 5022 / 65
p0 6092 ± 5.371
7200
7000
6800
6600
6400
6200
6000
5800
5600
5400

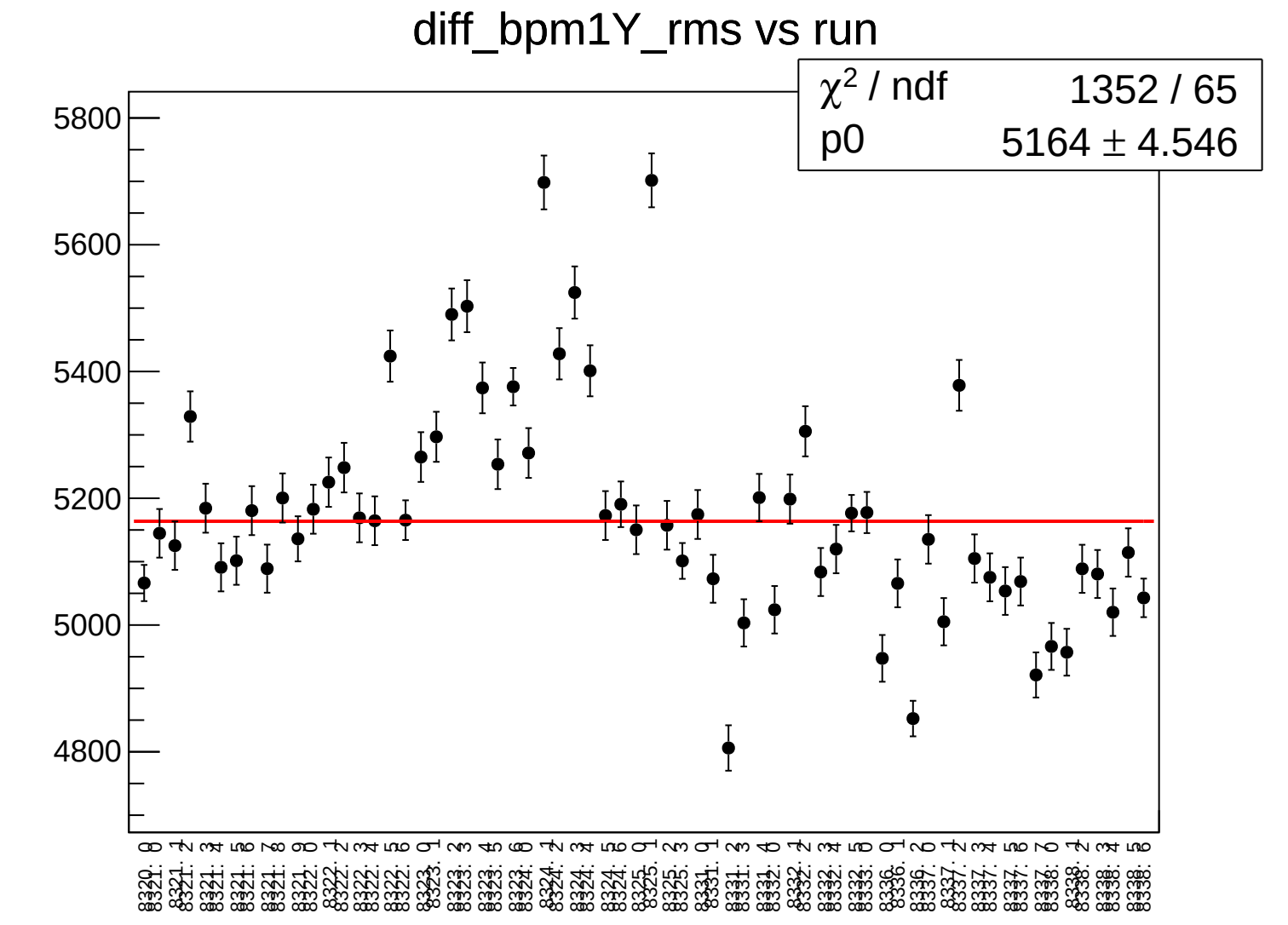

diff_bpm1X_mean vs run
χ² / ndf 46.67 / 65
p0 −93.67 ± 25.02
pull
Entries 66
Mean 55.35
Std Dev 25.01

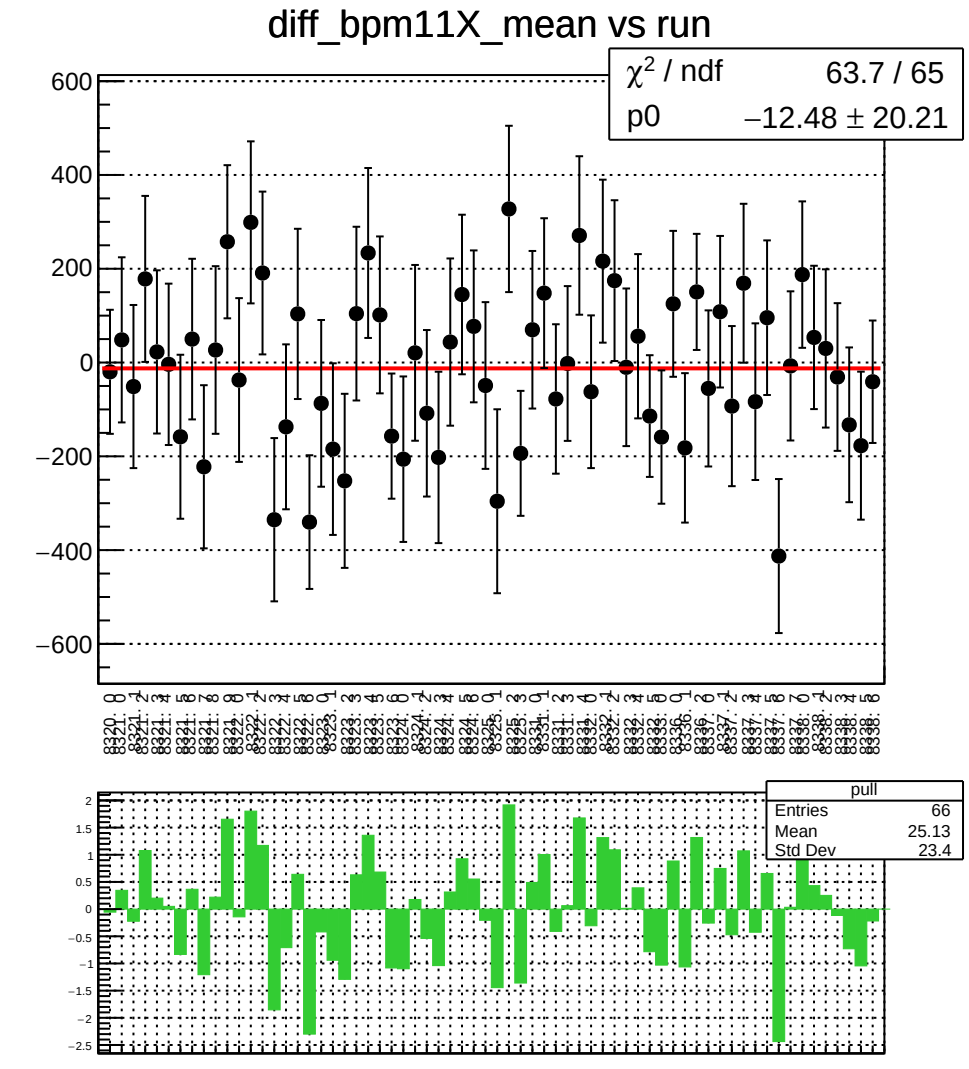

pull1D
Entries 66
Mean −0.02811
Std Dev 0.8404

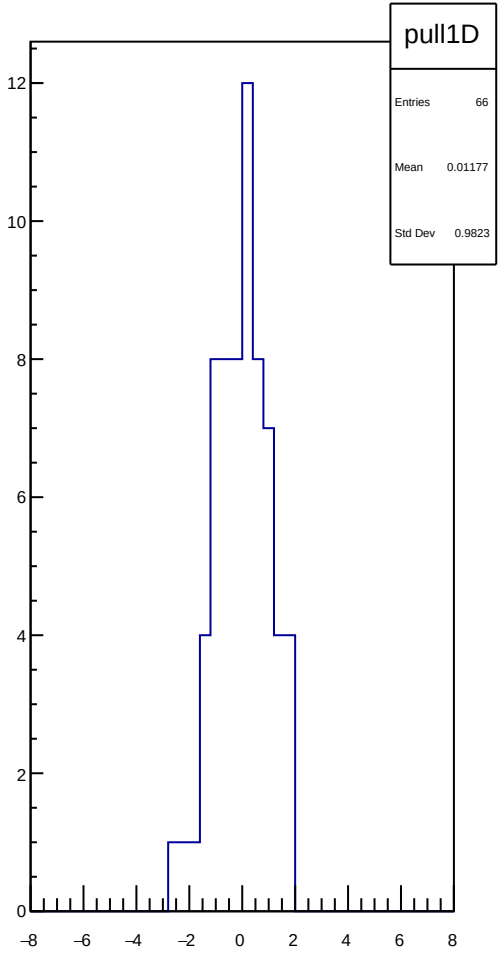

diff_bpm1X_rms vs run
χ² / ndf 3892 / 65
p0 2.007e+04 ± 17.69
23000
22000
21000
20000
19000
18000

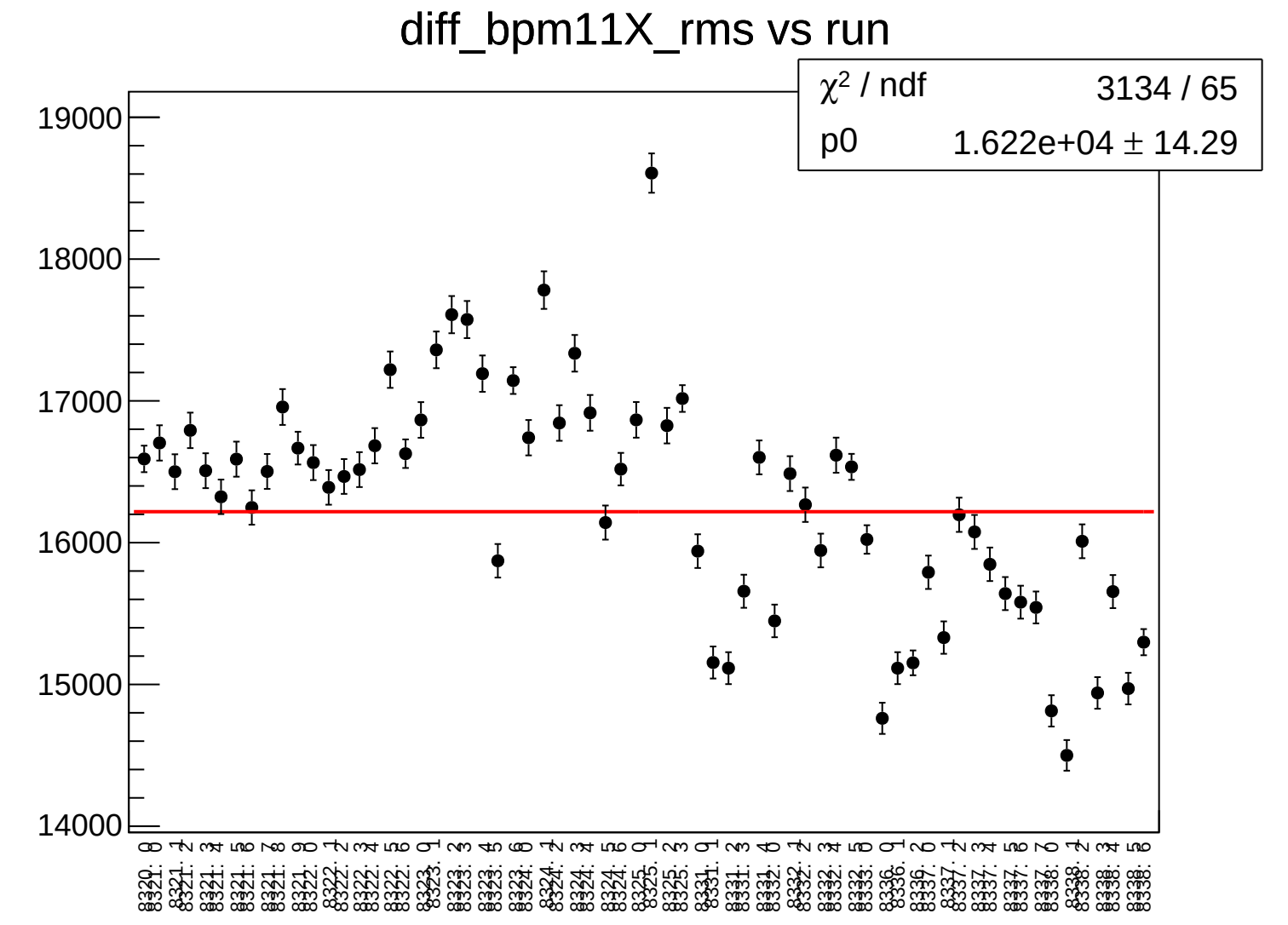

diff_bpm1Y_mean vs run
χ^2 / ndf 69.48 / 65
p0 13.17 ± 6.429
pull
Entries 66
Mean 14.66
Std Dev 54.12

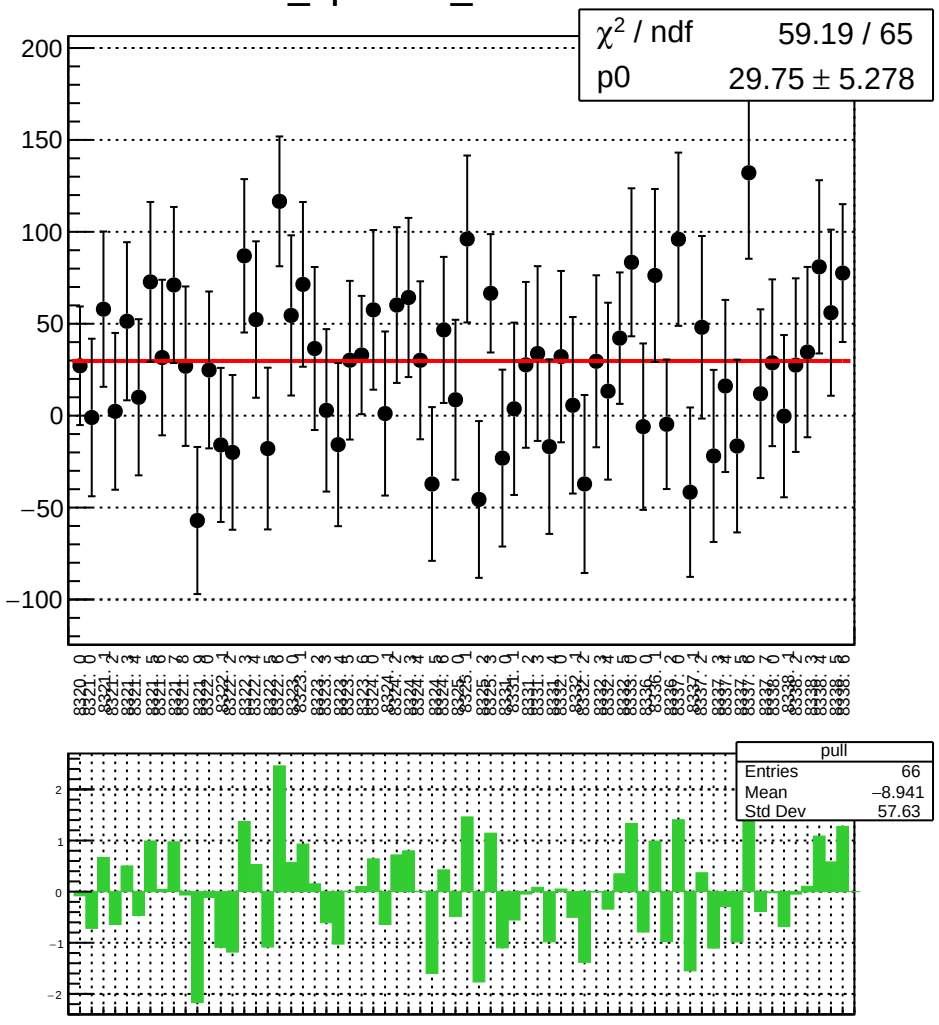

pull1D
Entries 66
Mean 0.005005
Std Dev 1.026

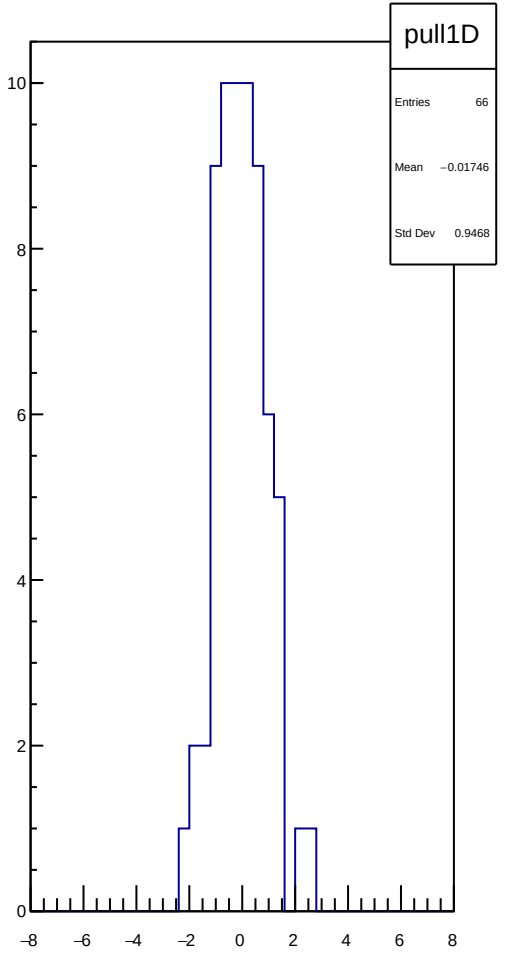

diff_bpm1Y_rms vs run
χ² / ndf 1352 / 65
p0 5164 ± 4.546
5800
5600
5400
5200
5000
4800

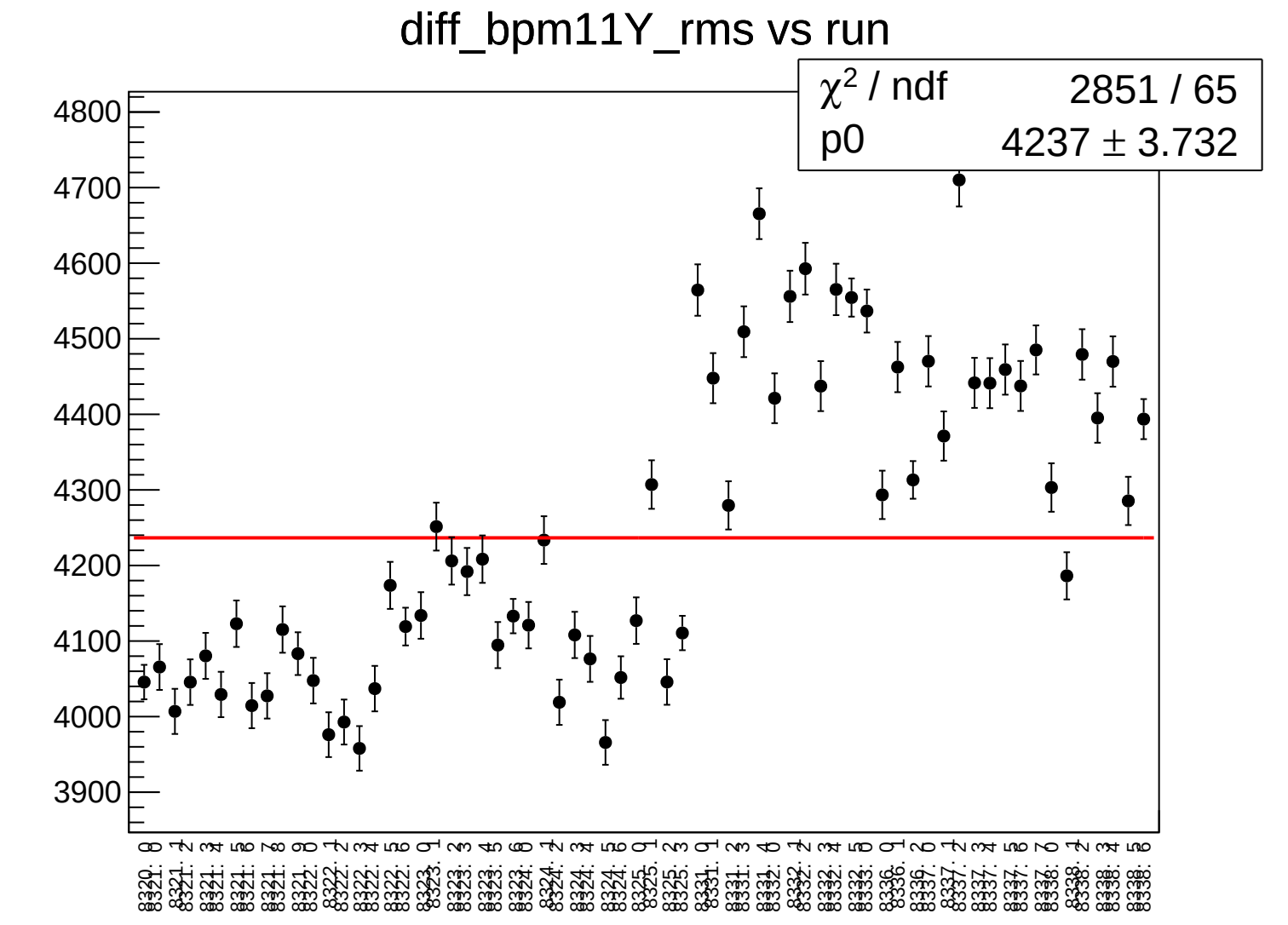

diff_bpm11X_mean vs run
χ^2 / ndf 63.7 / 65
p0 −12.48 ± 20.21
pull
Entries 66
Mean 25.13
Std Dev 23.4

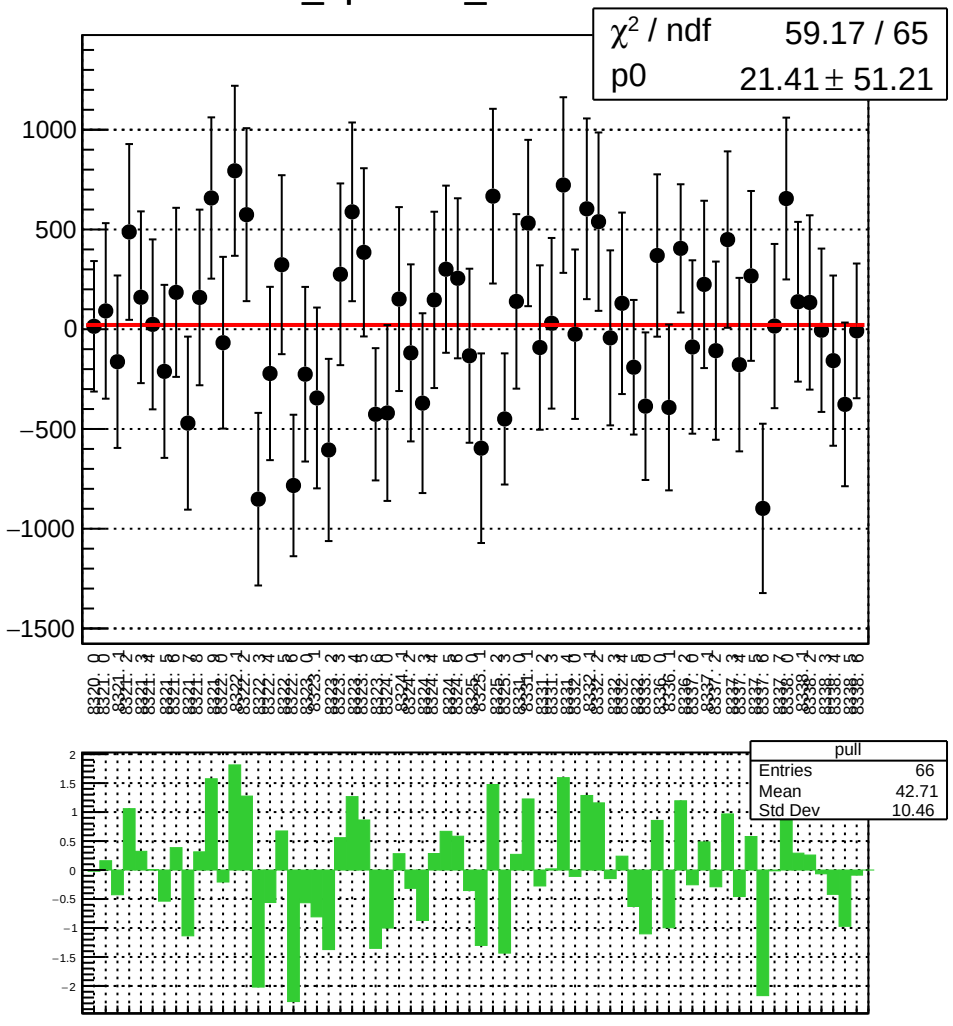

pull1D
Entries 66
Mean 0.01177
Std Dev 0.9823

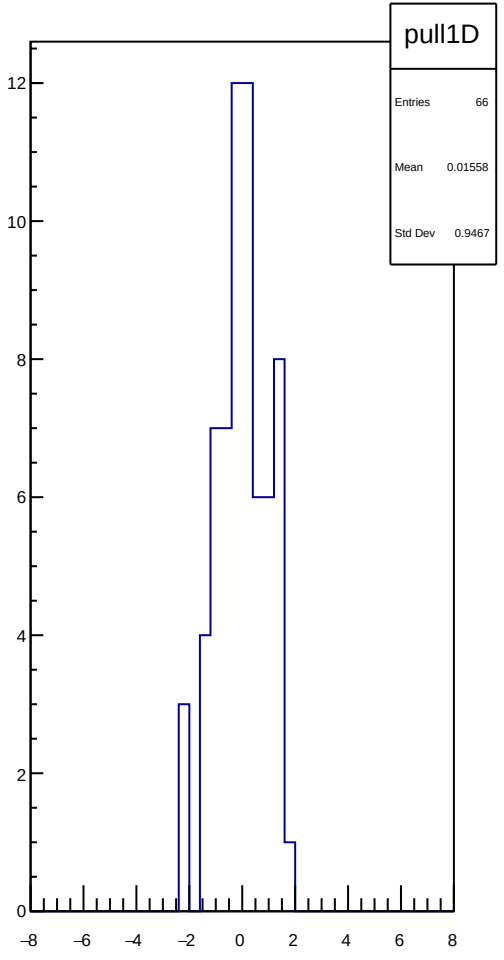

diff_bpm11X_rms vs run
χ² / ndf 3134 / 65
p0 1.622e+04 ± 14.29
19000
18000
17000
16000
15000
14000

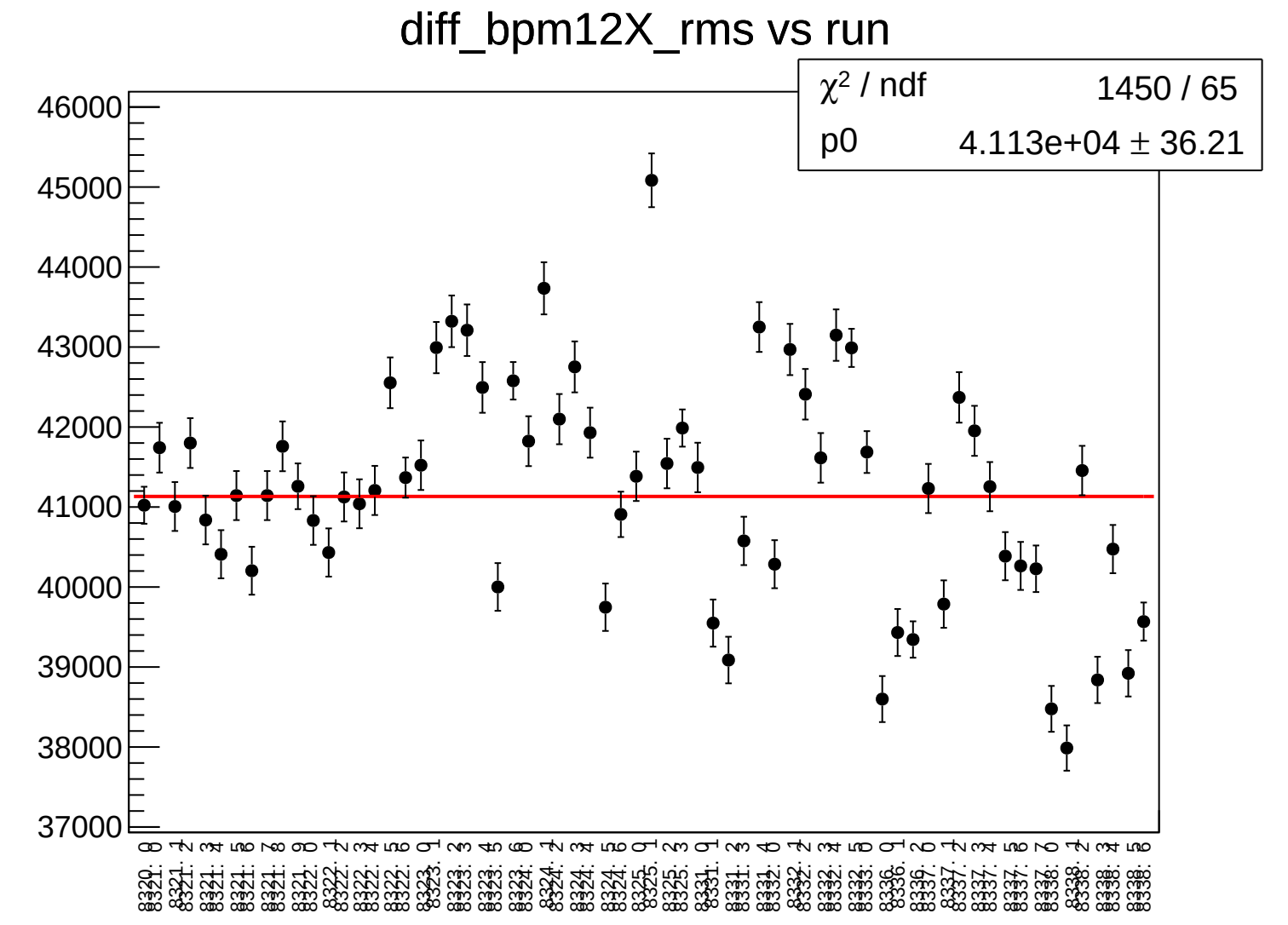

diff_bpm11Y_mean vs run
χ^2 / ndf 59.19 / 65
p0 29.75 ± 5.278
pull
Entries 66
Mean −8.941
Std Dev 57.63

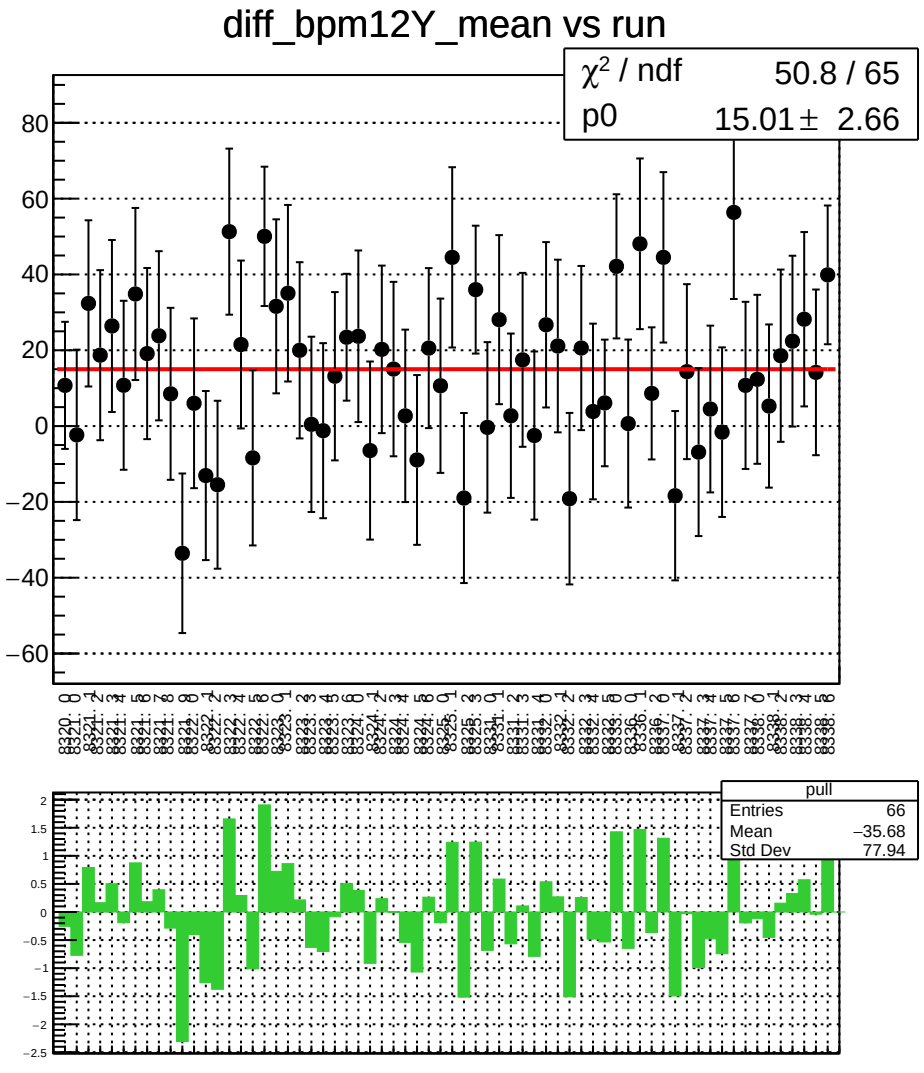

pull1D
Entries 66
Mean −0.01746
Std Dev 0.9468

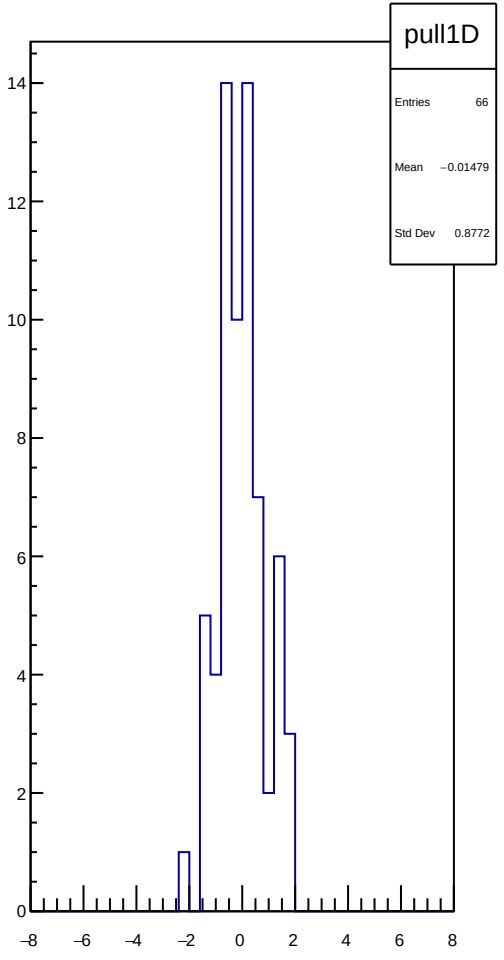

diff_bpm11Y_rms vs run
χ² / ndf 2851 / 65
p0 4237 ± 3.732
4800
4700
4600
4500
4400
4300
4200
4100
4000
3900

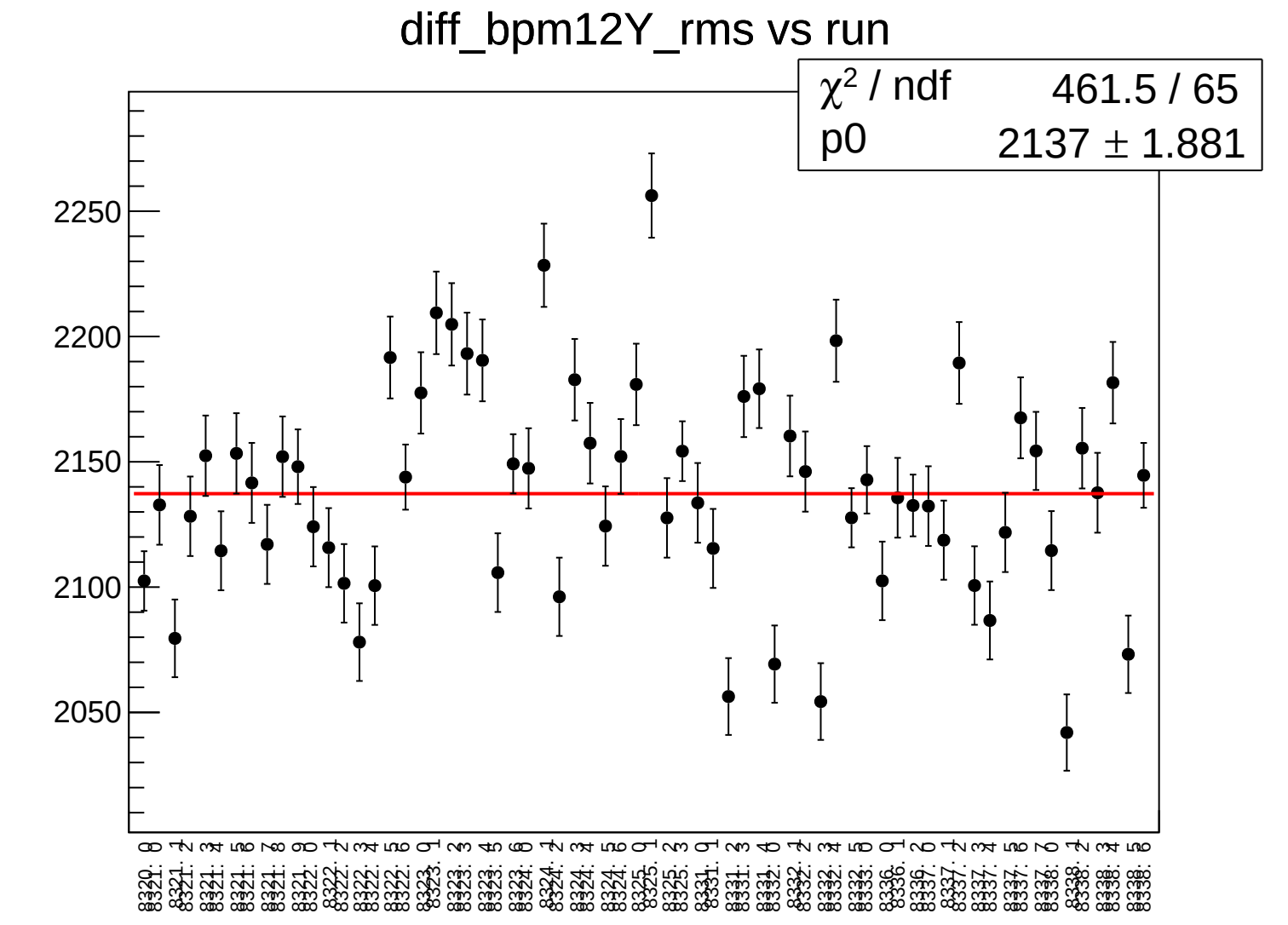

diff_bpm12X_mean vs run
χ^2 / ndf 59.17 / 65
p0 21.41 ± 51.21
pull
Entries 66
Mean 42.71
Std Dev 10.46

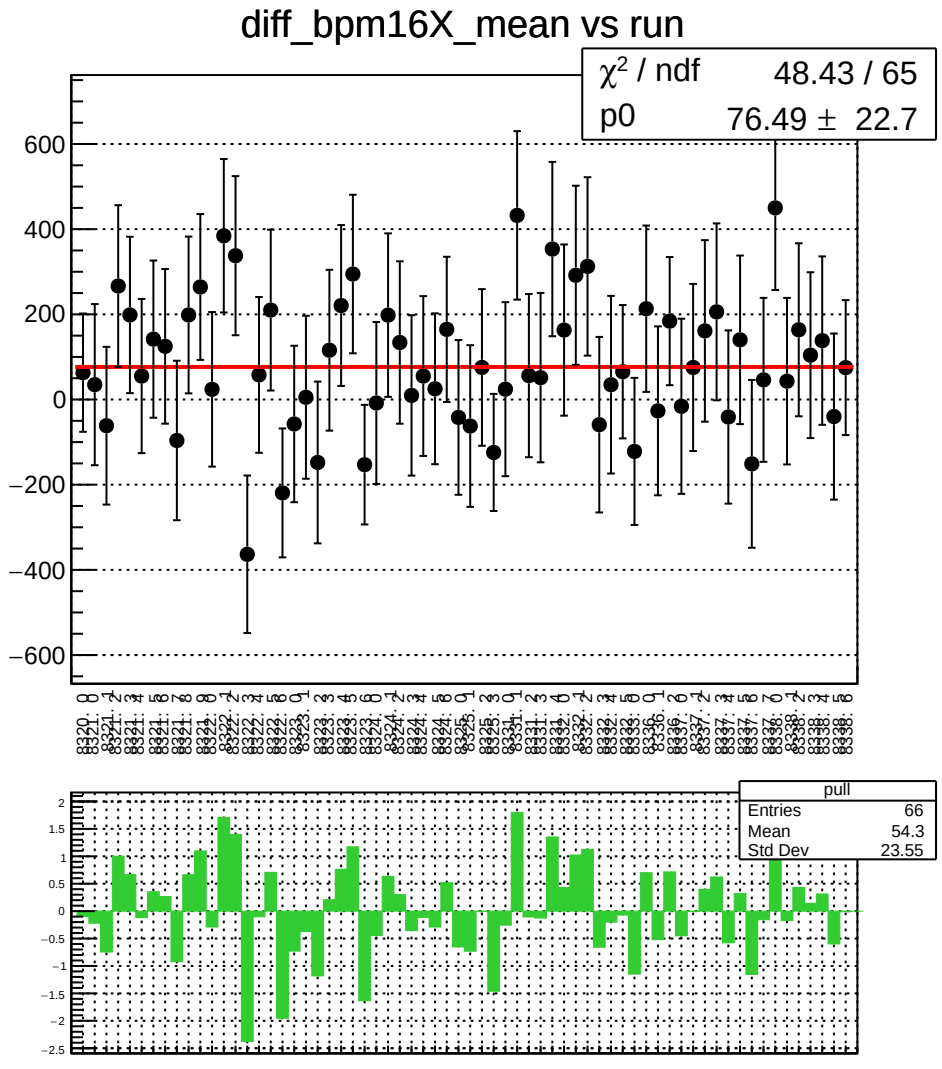

pull1D
Entries 66
Mean 0.01558
Std Dev 0.9467

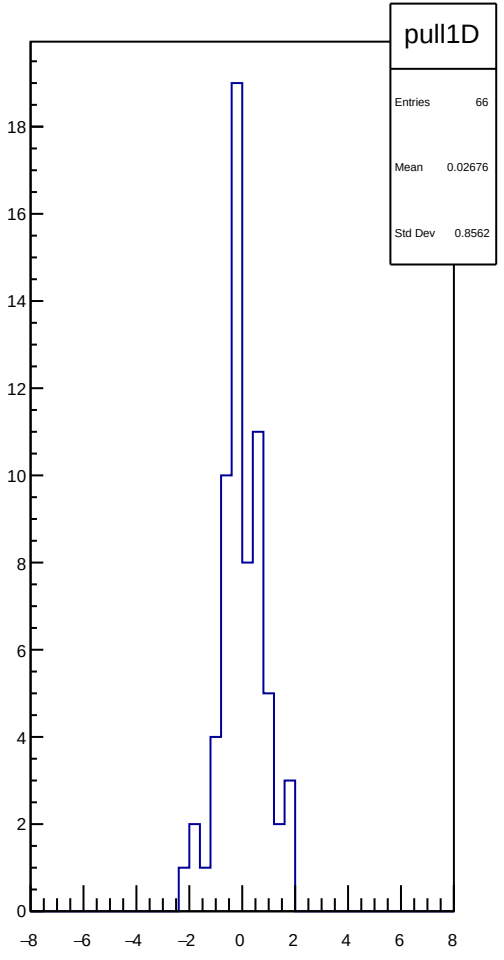

diff_bpm12X_rms vs run
χ² / ndf 1450 / 65
p0 4.113e+04 ± 36.21
46000
45000
44000
43000
42000
41000
40000
39000
38000
37000

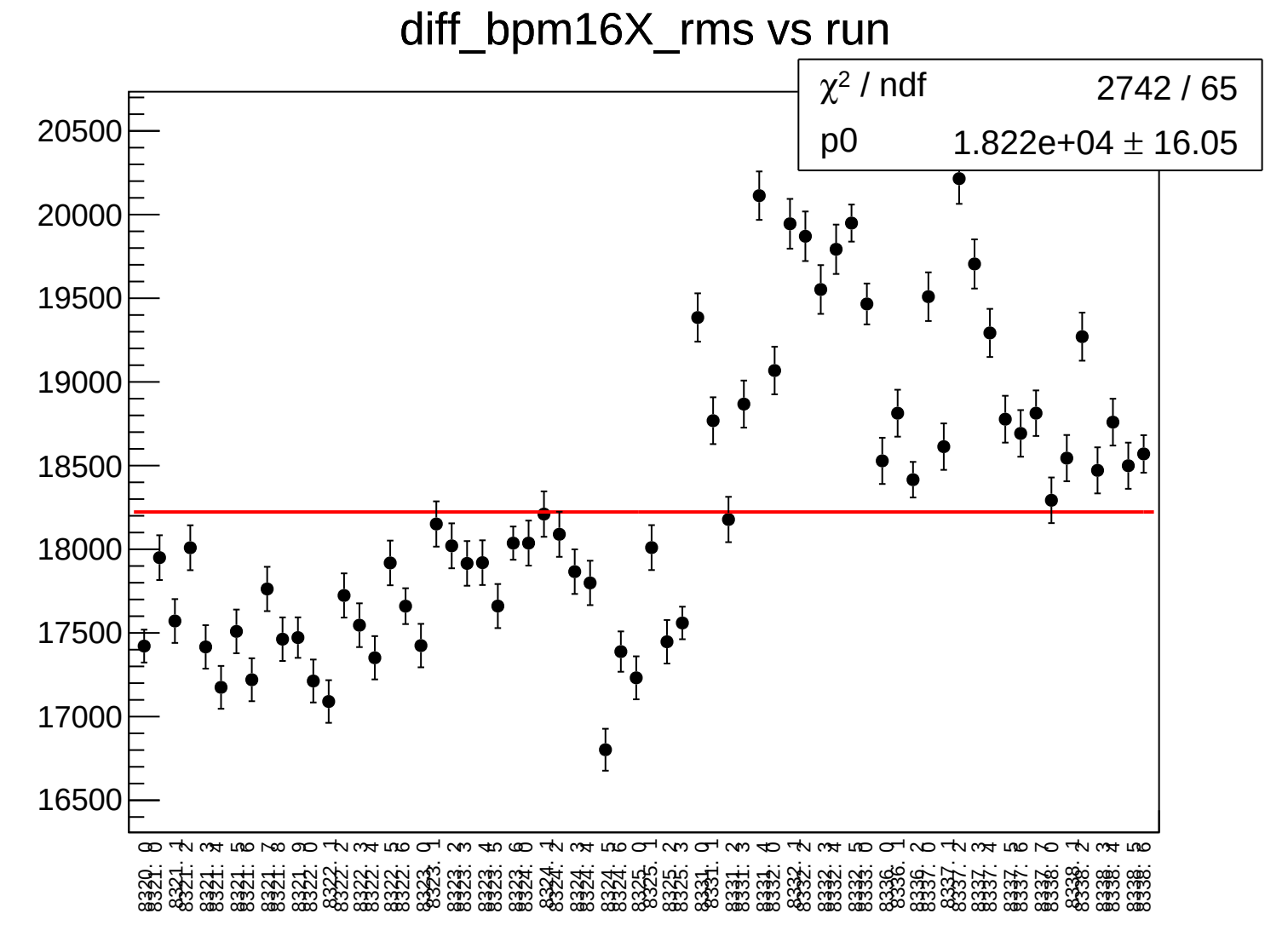

diff_bpm12Y_mean vs run
χ² / ndf 50.8 / 65
p0 15.01 ± 2.66
pull
Entries 66
Mean −35.68
Std Dev 77.94

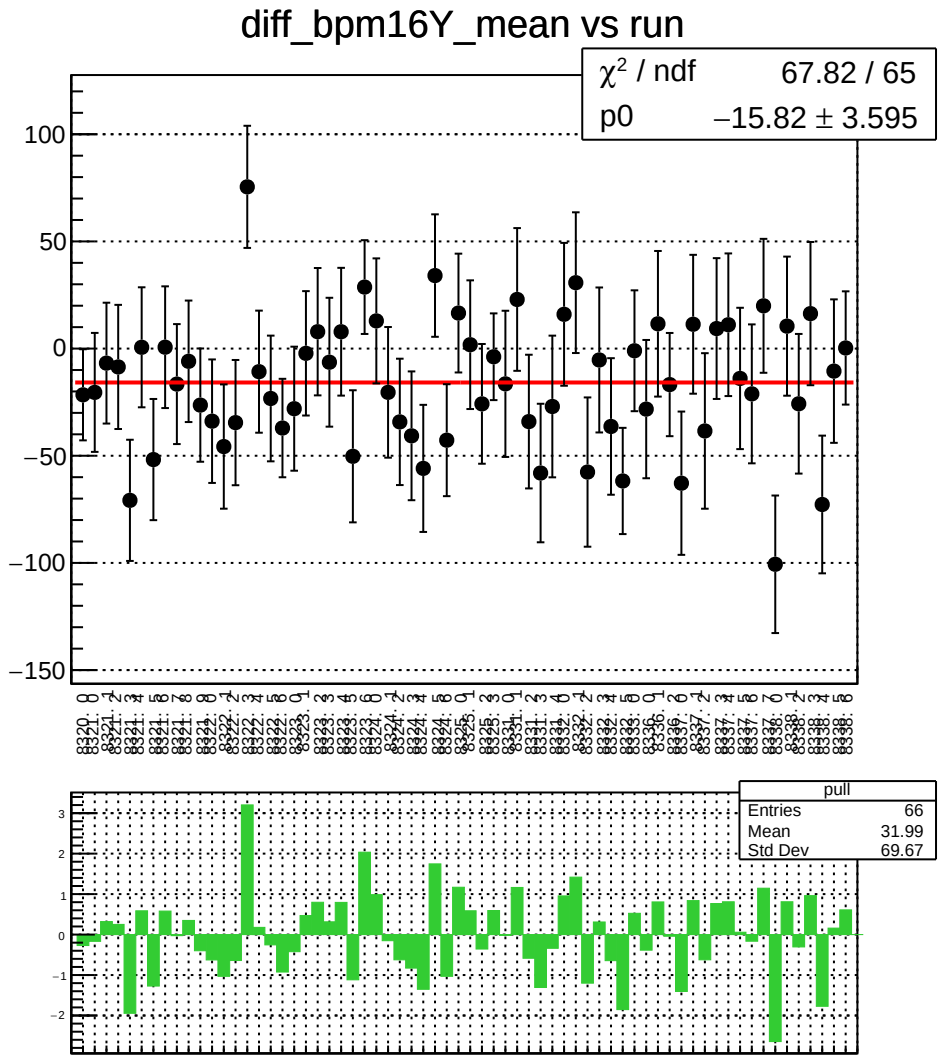

pull1D
Entries 66
Mean −0.01479
Std Dev 0.8772

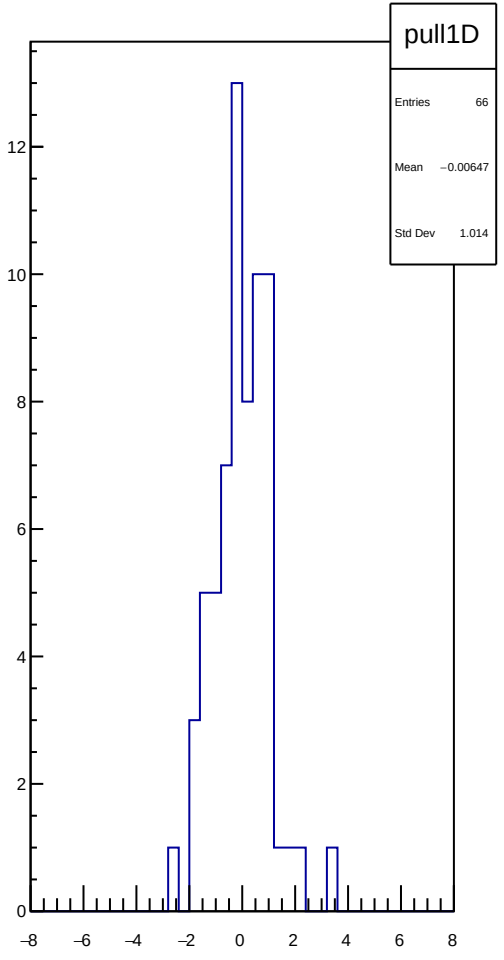

diff_bpm12Y_rms vs run
χ² / ndf 461.5 / 65
p0 2137 ± 1.881
2250
2200
2150
2100
2050

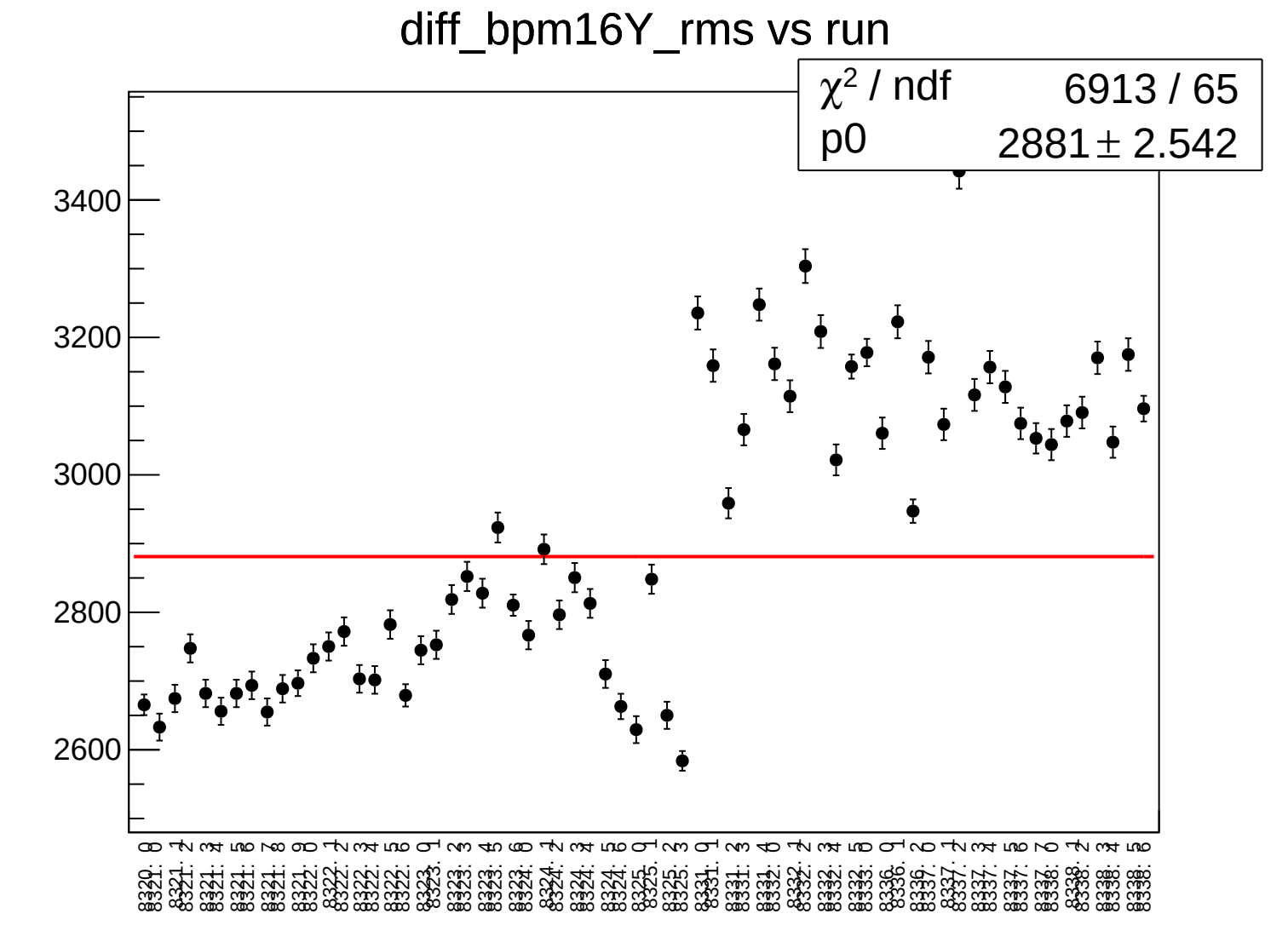

diff_bpm16X_mean vs run
χ² / ndf 48.43 / 65
p0 76.49 ± 22.7
pull
Entries 66
Mean 54.3
Std Dev 23.55

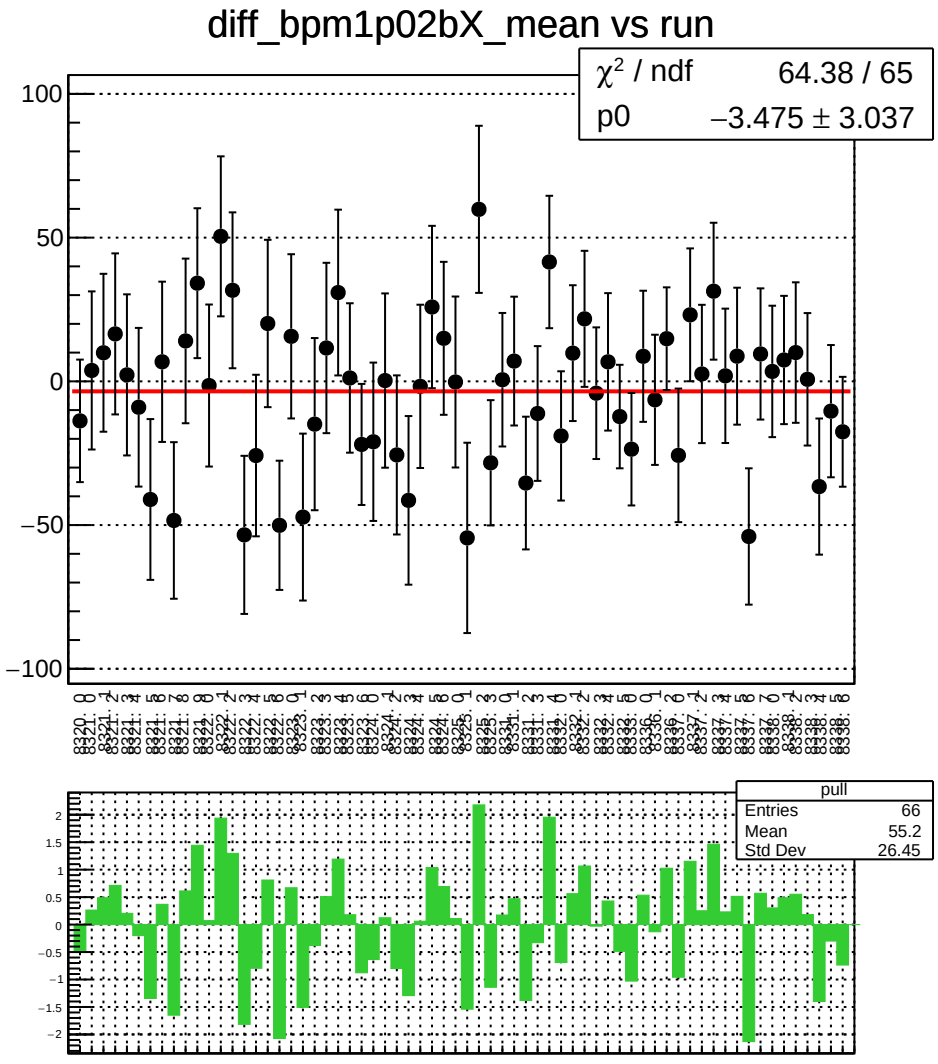

pull1D
Entries 66
Mean 0.02676
Std Dev 0.8562

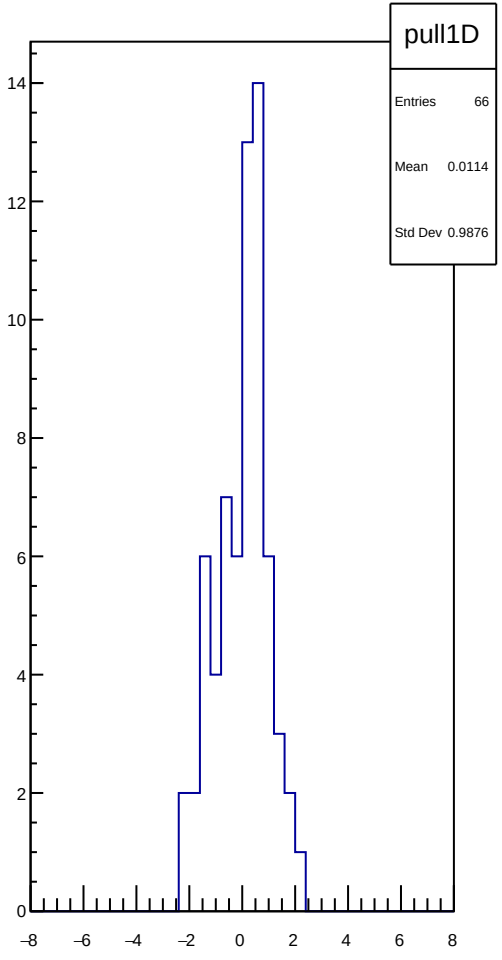

diff_bpm16X_rms vs run
χ² / ndf 2742 / 65
p0 1.822e+04 ± 16.05
20500
20000
19500
19000
18500
18000
17500
17000
16500

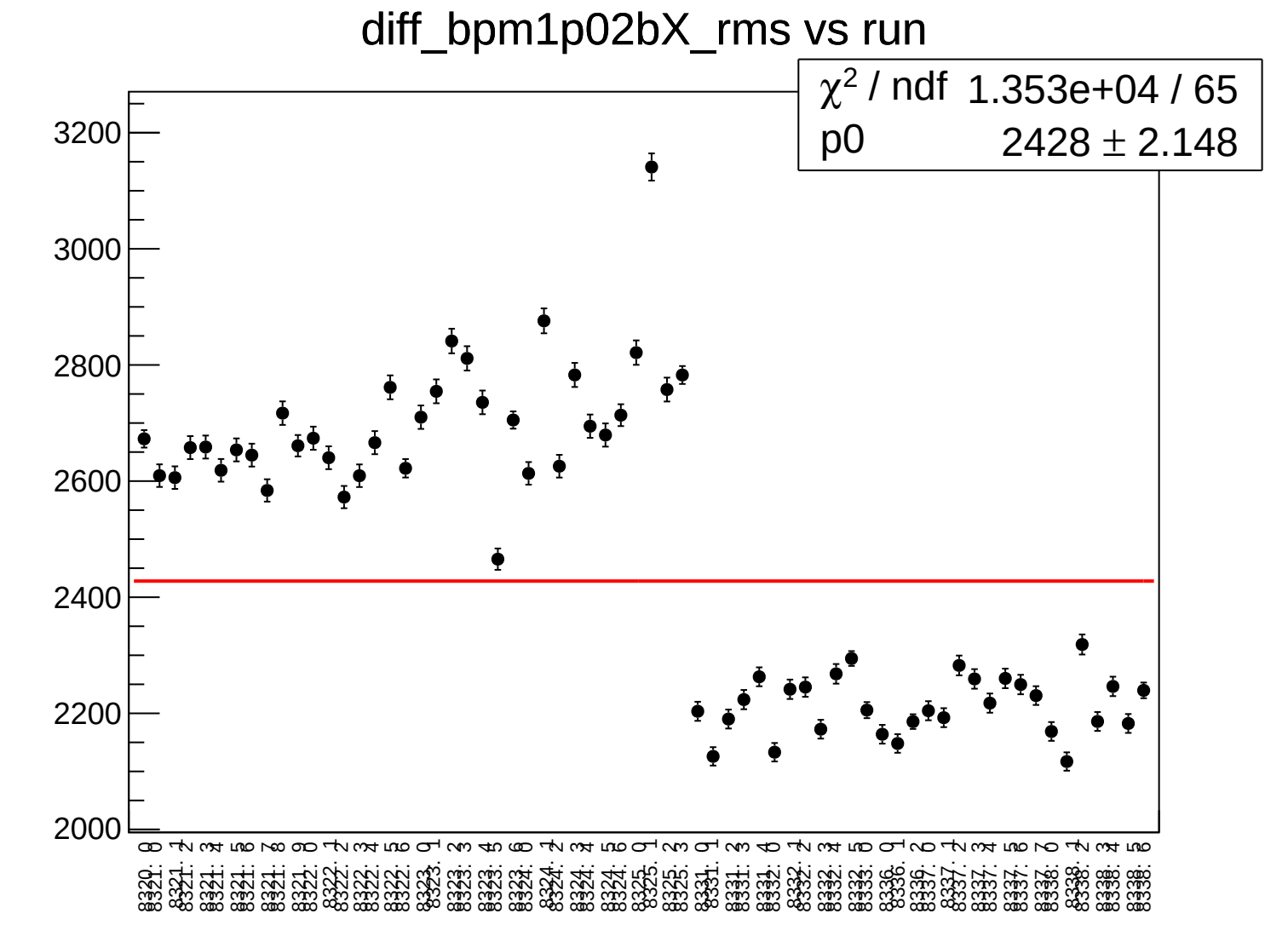

diff_bpm16Y_mean vs run
χ² / ndf 67.82 / 65
p0 −15.82 ± 3.595
100
50
0
−50
−100
−150
pull
Entries 66
Mean 31.99
Std Dev 69.67
3
2
1
0
−1
−2

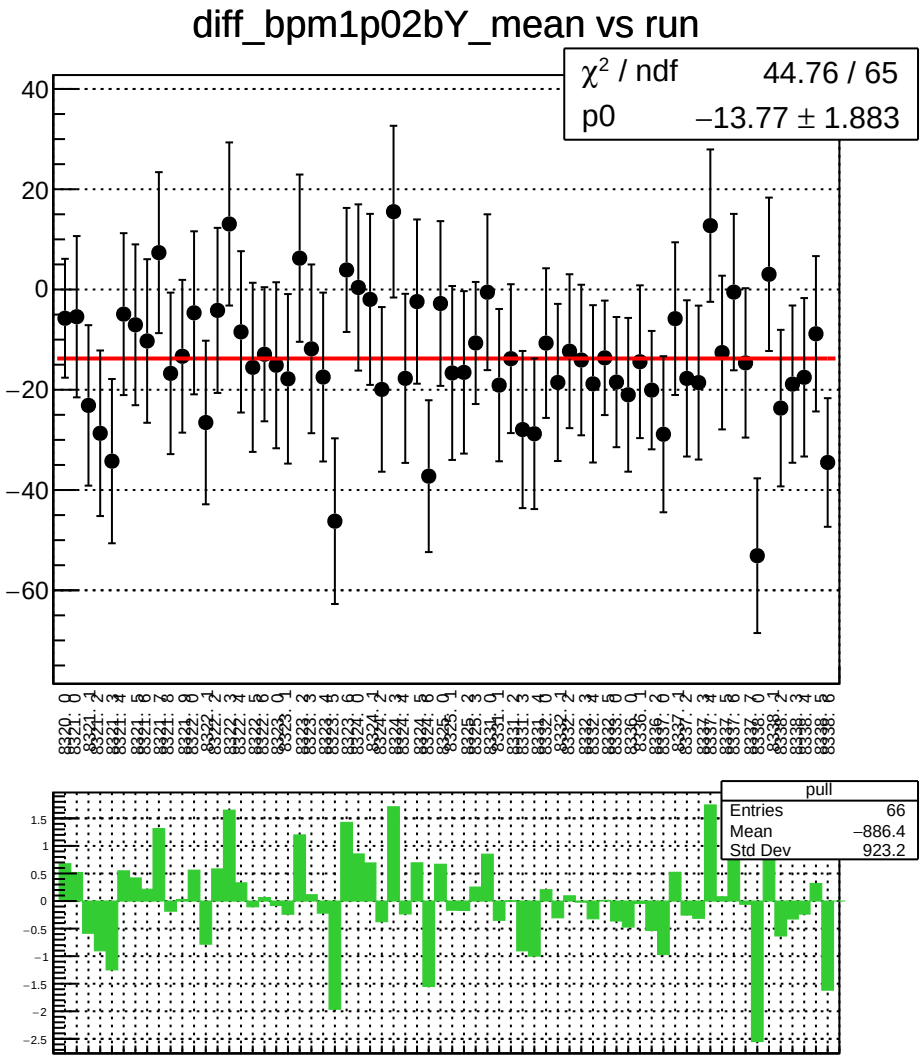

pull1D
Entries 66
Mean −0.00647
Std Dev 1.014
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

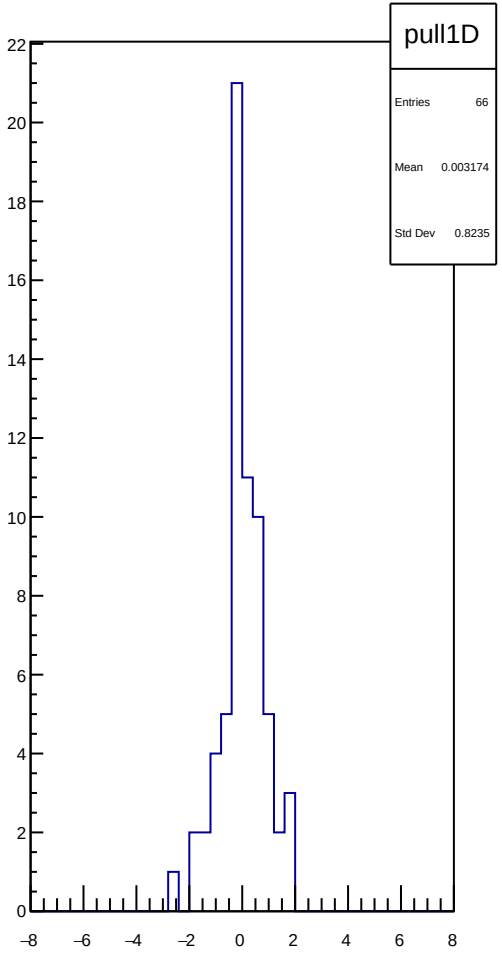

diff_bpm16Y_rms vs run
χ² / ndf 6913 / 65
p0 2881 ± 2.542
3400
3200
3000
2800
2600

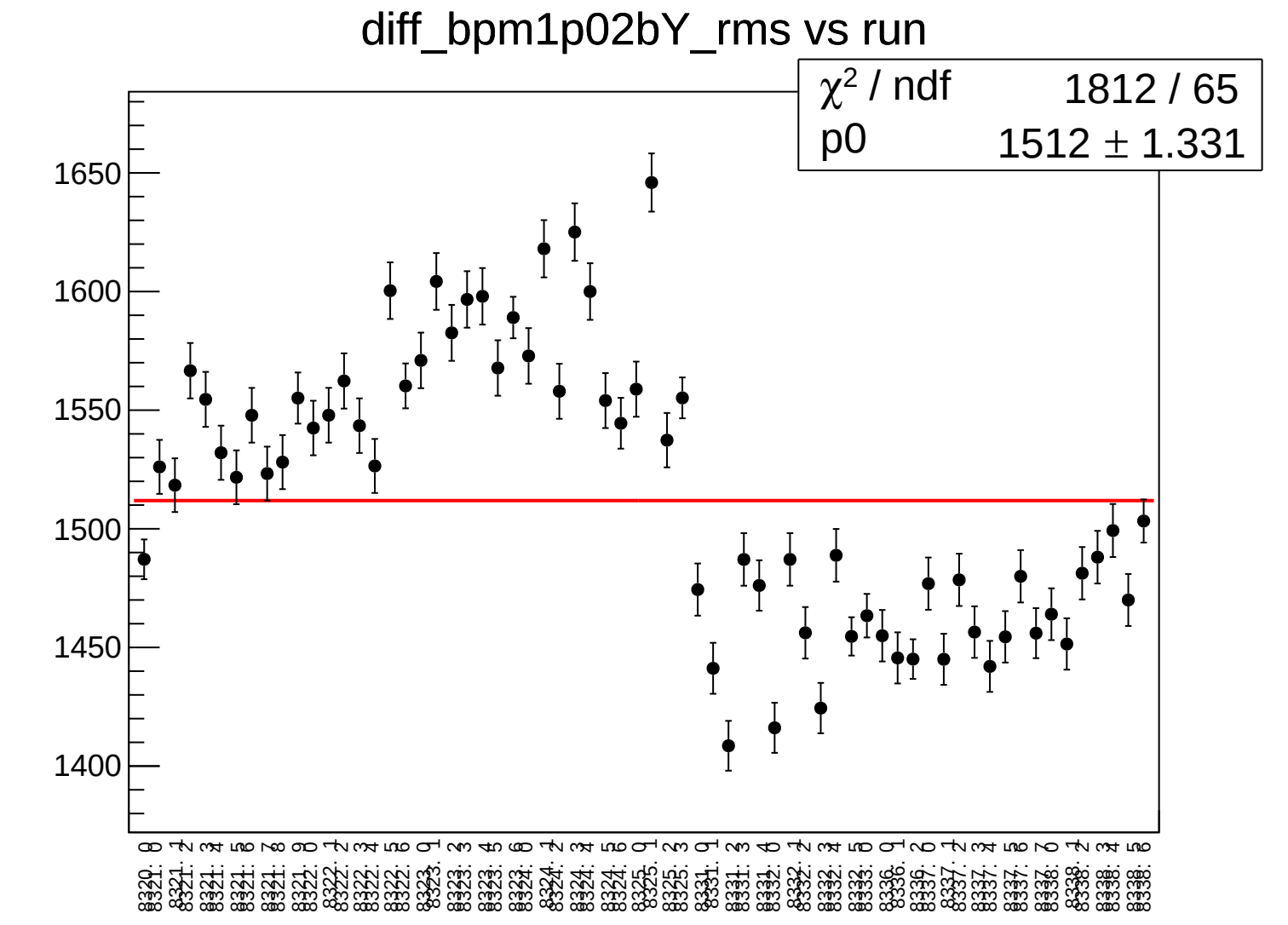

diff_bpm1p02bX_mean vs run
χ² / ndf 64.38 / 65
p0 −3.475 ± 3.037
pull
Entries 66
Mean 55.2
Std Dev 26.45

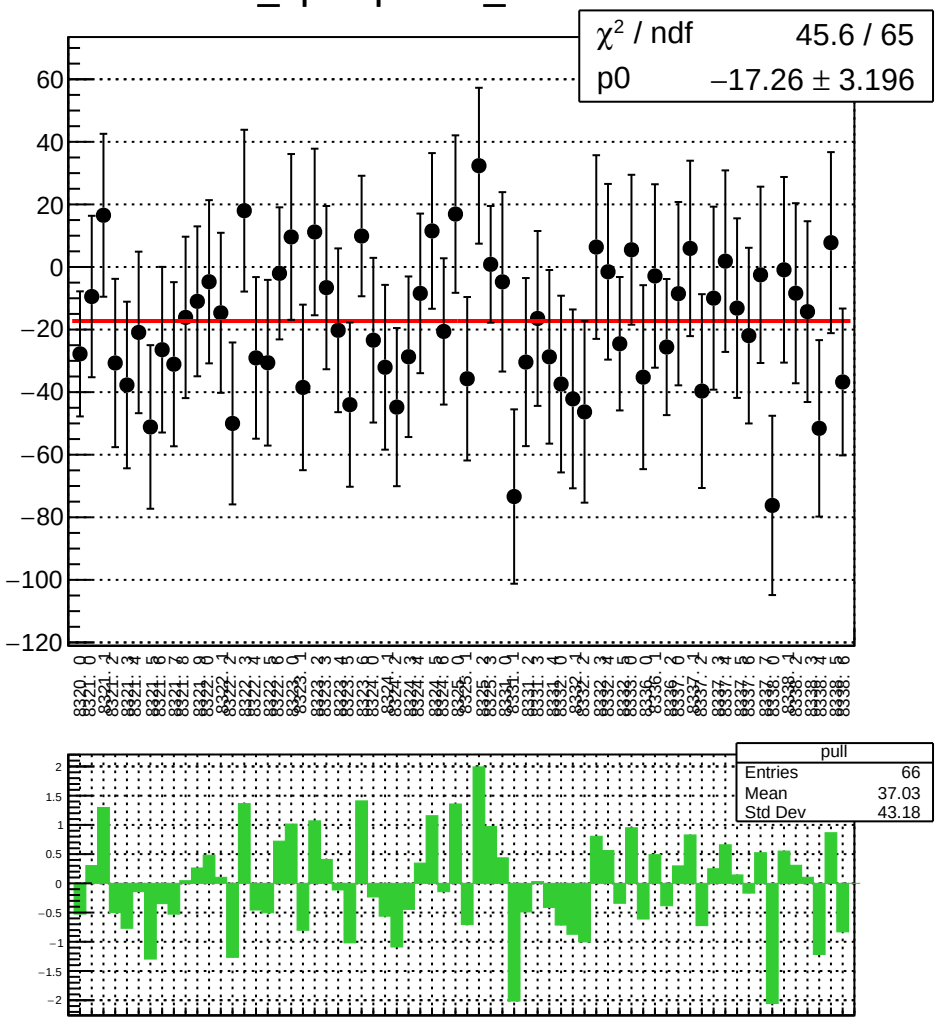

pull1D
Entries 66
Mean 0.0114
Std Dev 0.9876

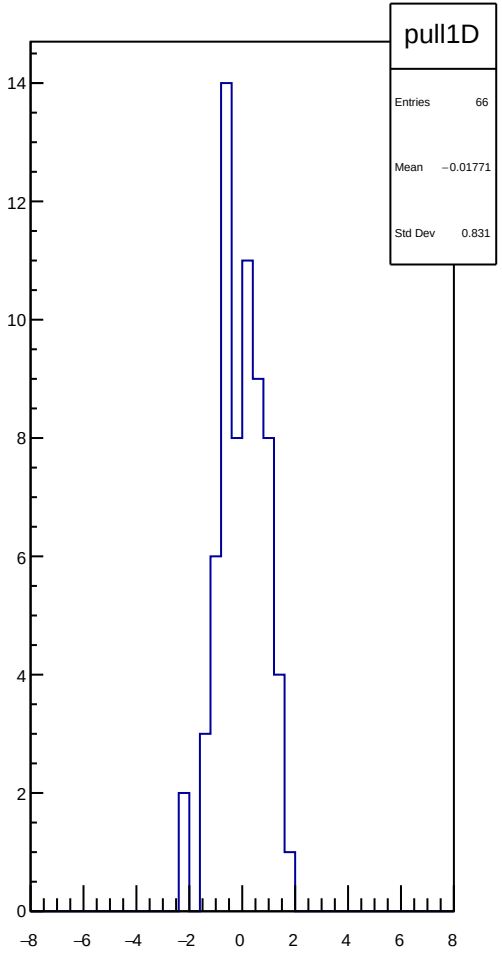

diff_bpm1p02bX_rms vs run
χ² / ndf 1.353e+04 / 65
p0 2428 ± 2.148
3200
3000
2800
2600
2400
2200
2000

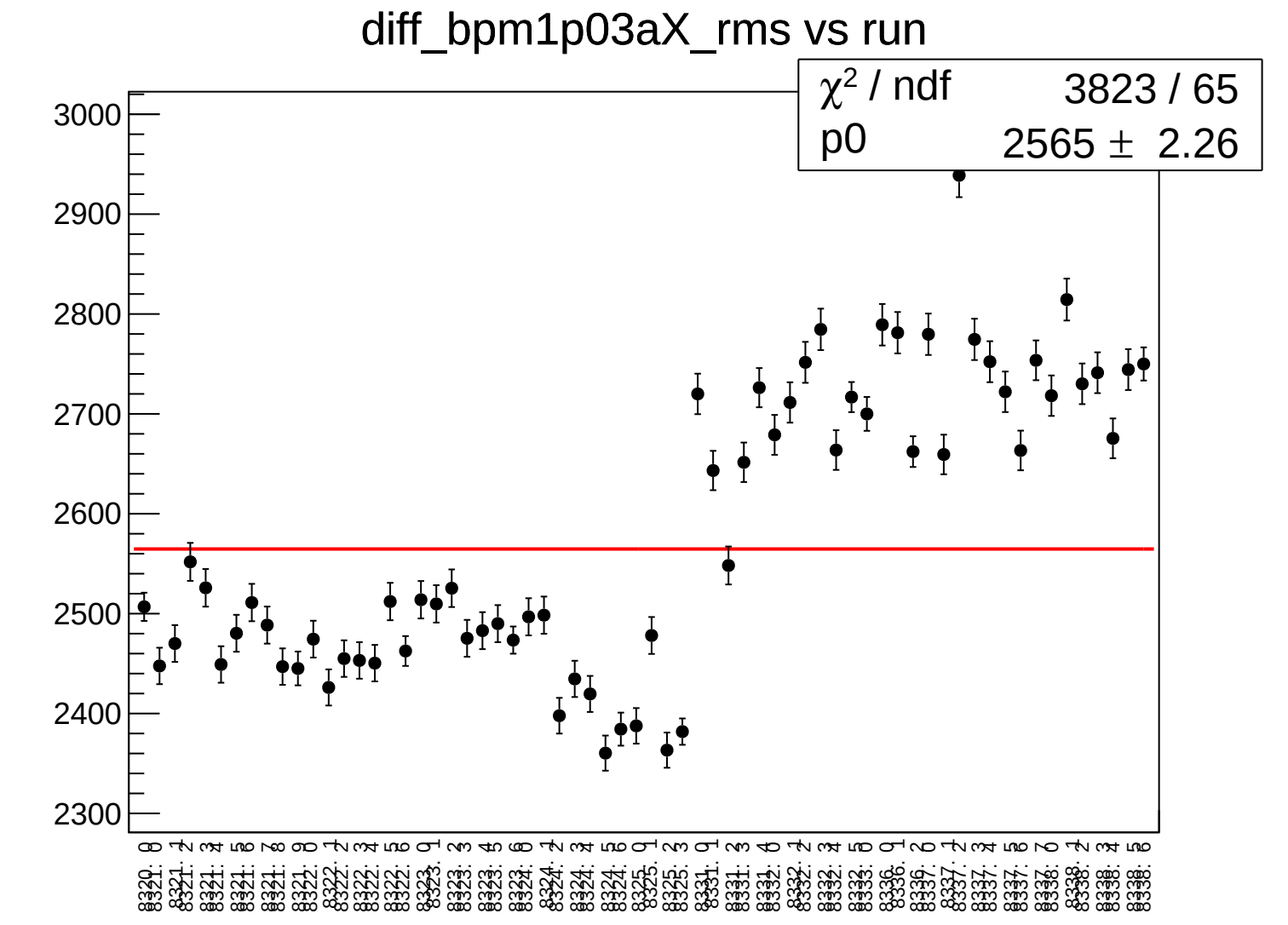

diff_bpm1p02bY_mean vs run
χ² / ndf 44.76 / 65
p0 −13.77 ± 1.883
pull
Entries 66
Mean −886.4
Std Dev 923.2

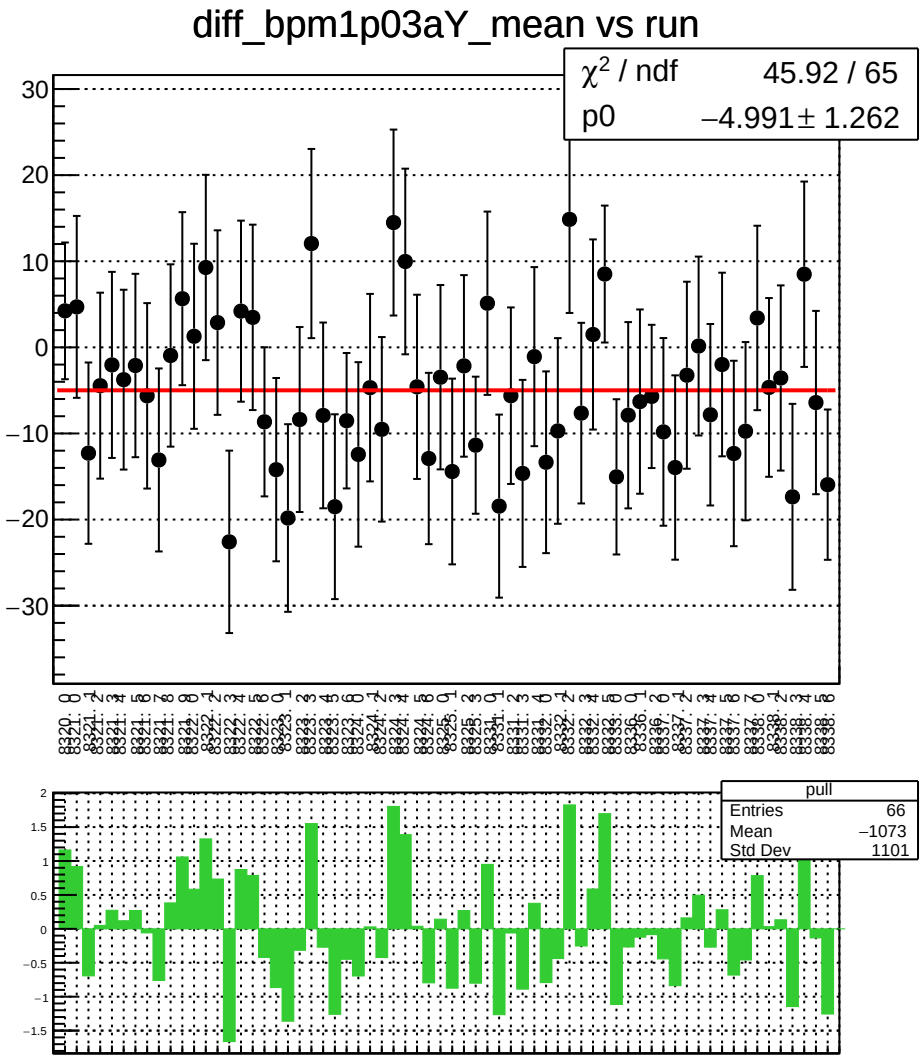

pull1D
Entries 66
Mean 0.003174
Std Dev 0.8235

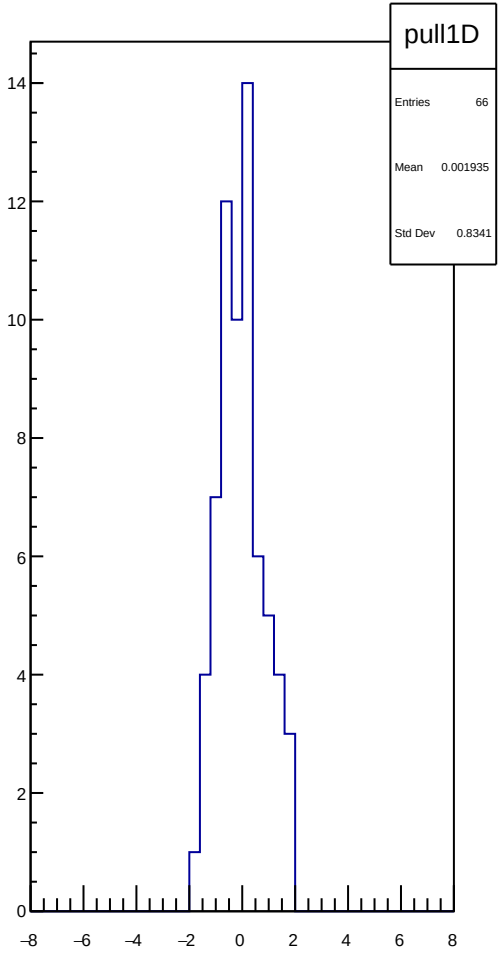

diff_bpm1p02bY_rms vs run
χ² / ndf 1812 / 65
p0 1512 ± 1.331
1650
1600
1550
1500
1450
1400

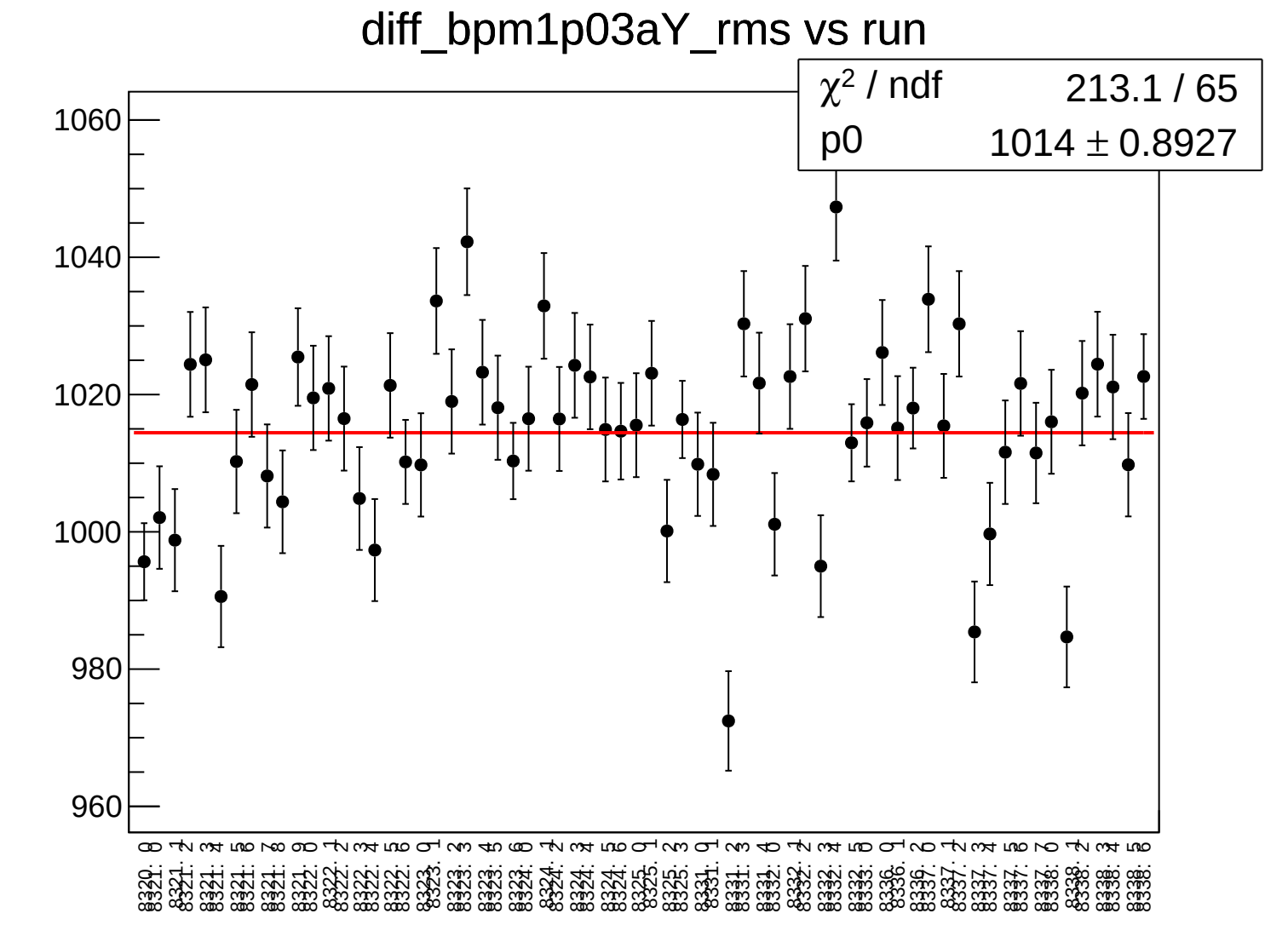

diff_bpm1p03aX_mean vs run
χ² / ndf 45.6 / 65
p0 −17.26 ± 3.196
pull
Entries 66
Mean 37.03
Std Dev 43.18

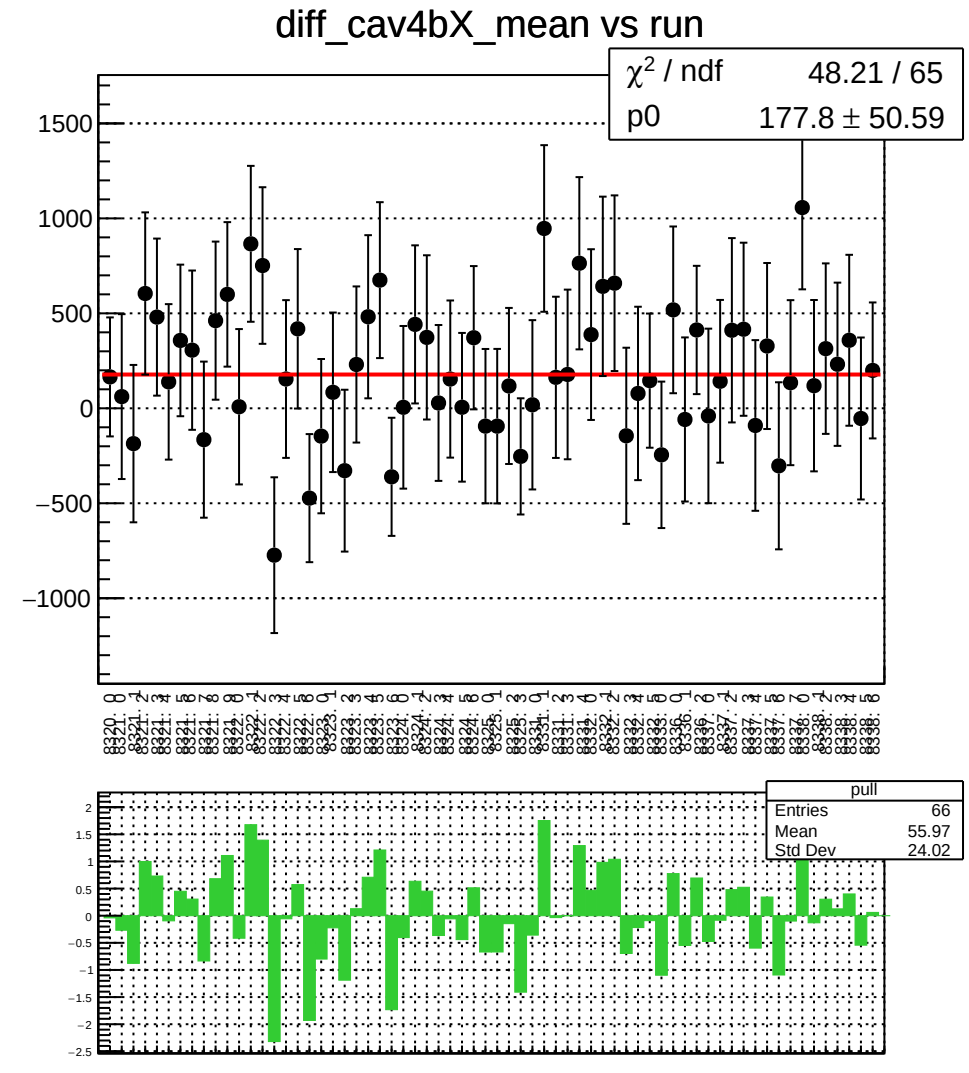

pull1D
Entries 66
Mean −0.01771
Std Dev 0.831

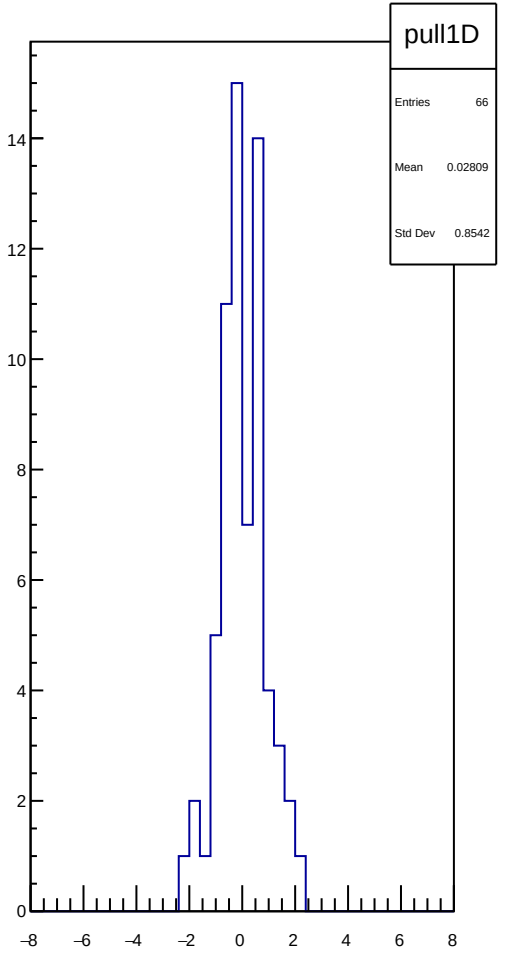

diff_bpm1p03aX_rms vs run
χ² / ndf 3823 / 65
p0 2565 ± 2.26
3000
2900
2800
2700
2600
2500
2400
2300

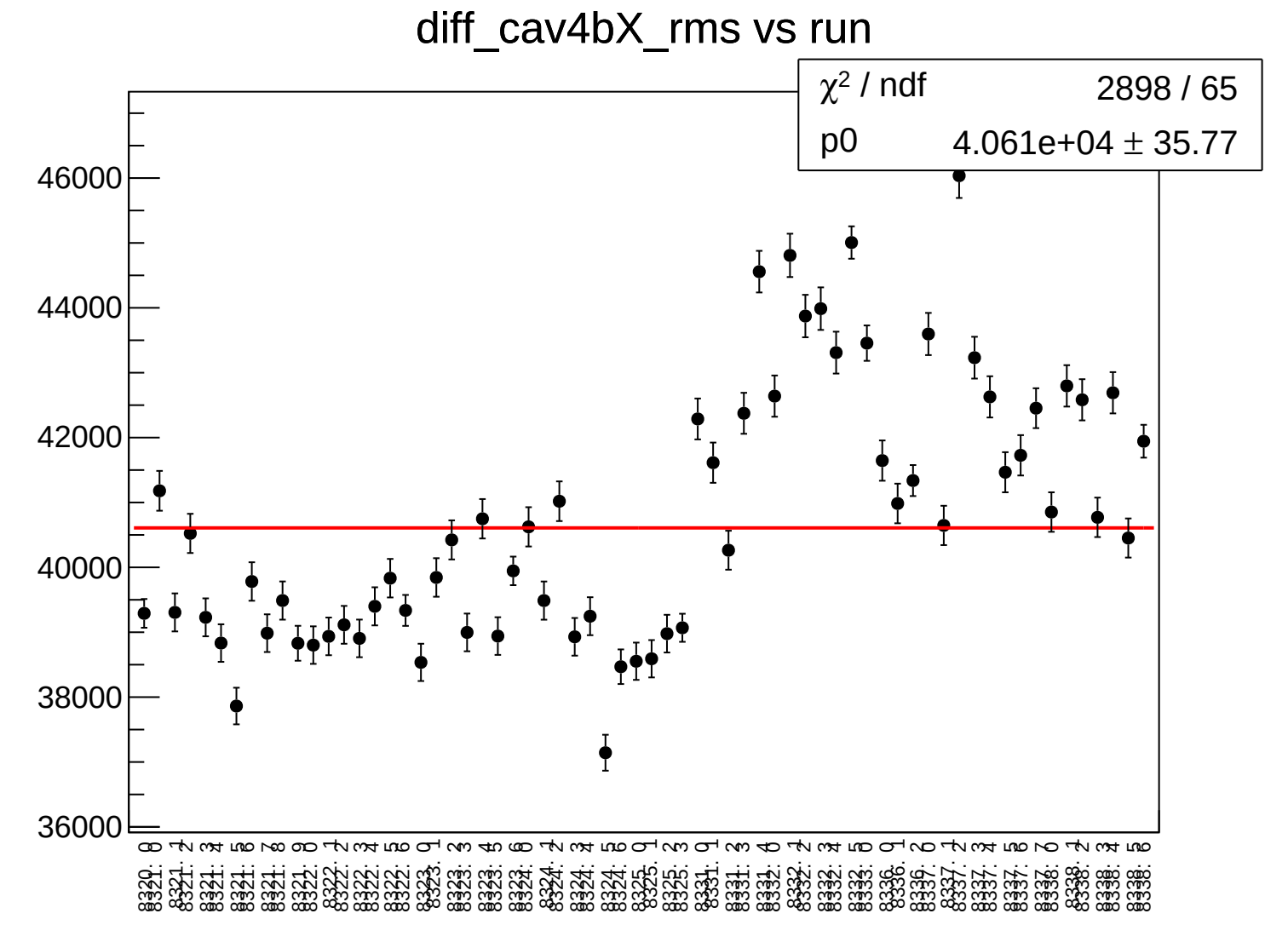

diff_bpm1p03aY_mean vs run
χ² / ndf 45.92 / 65
p0 −4.991 ± 1.262
pull
Entries 66
Mean −1073
Std Dev 1101

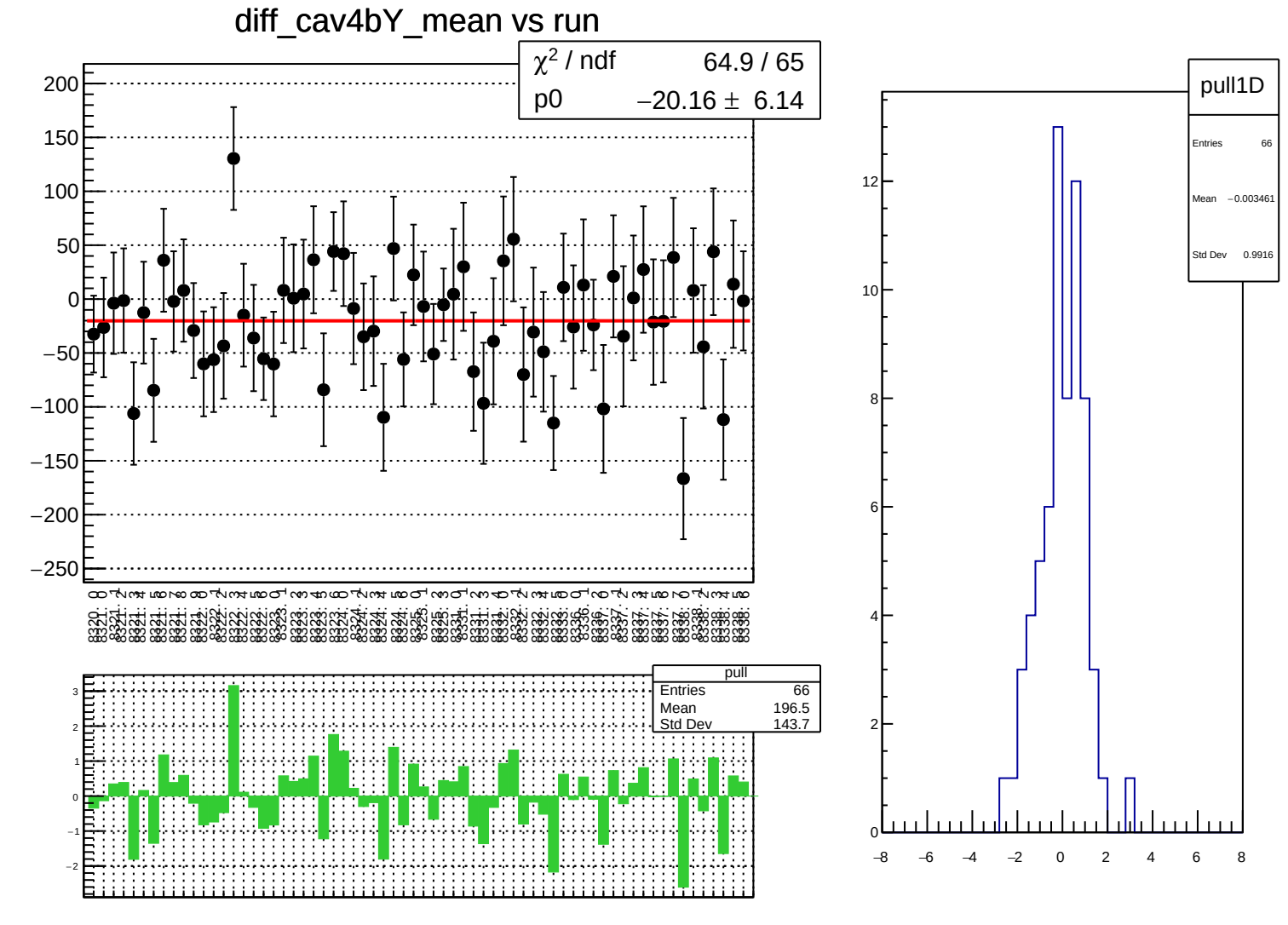

pull1D
Entries 66
Mean 0.001935
Std Dev 0.8341

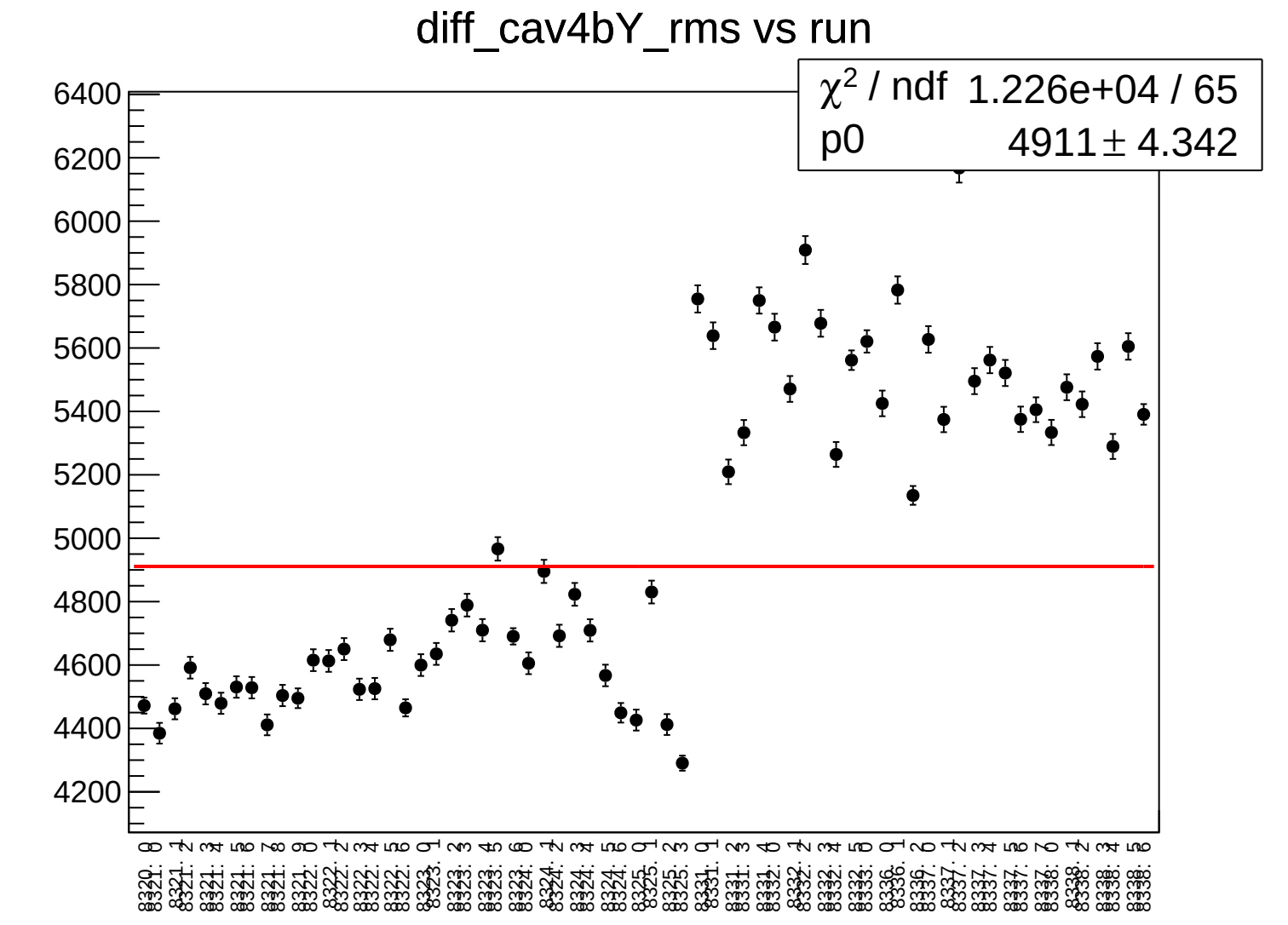

diff_bpm1p03aY_rms vs run
χ² / ndf 213.1 / 65
p0 1014 ± 0.8927
1060
1040
1020
1000
980
960

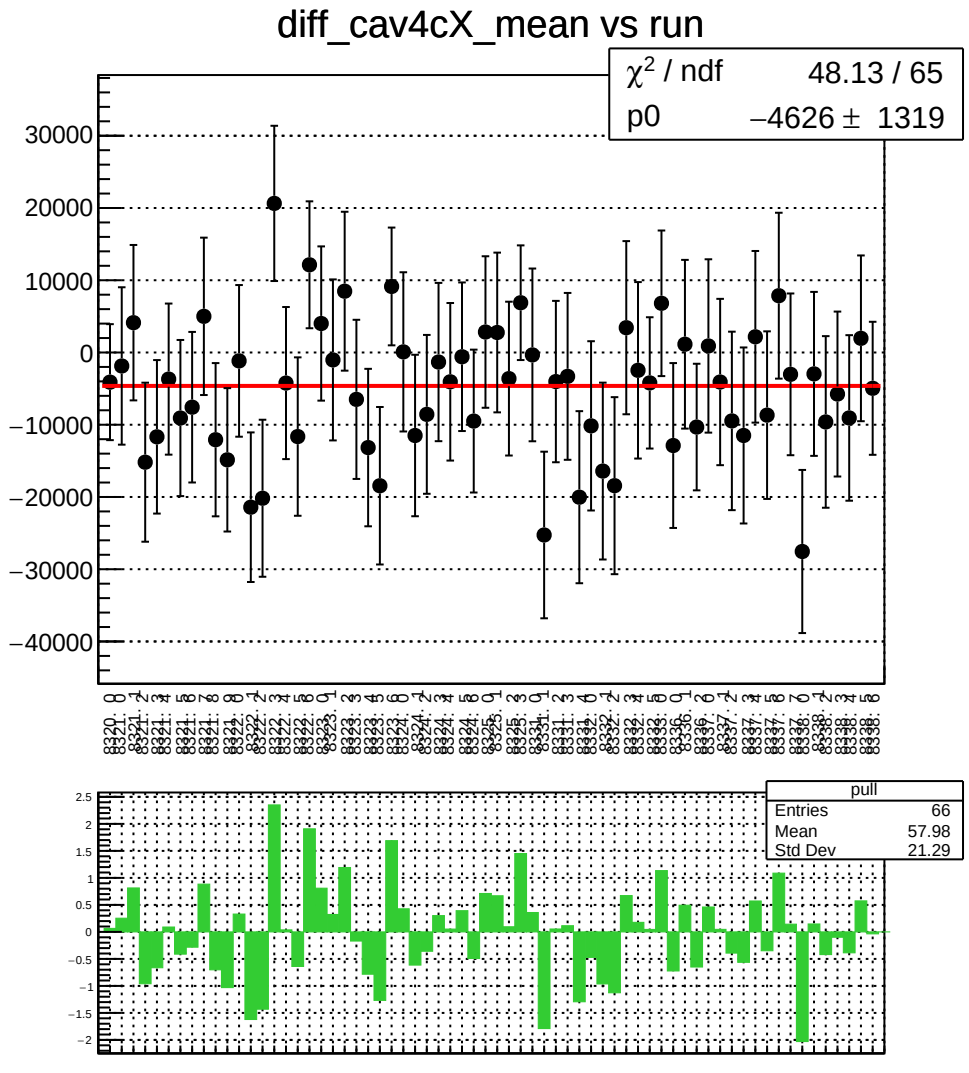

diff_cav4bX_mean vs run
χ^2 / ndf 48.21 / 65
p0 177.8 ± 50.59
1500
1000
500
0
−500
−1000
pull
Entries 66
Mean 55.97
Std Dev 24.02
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

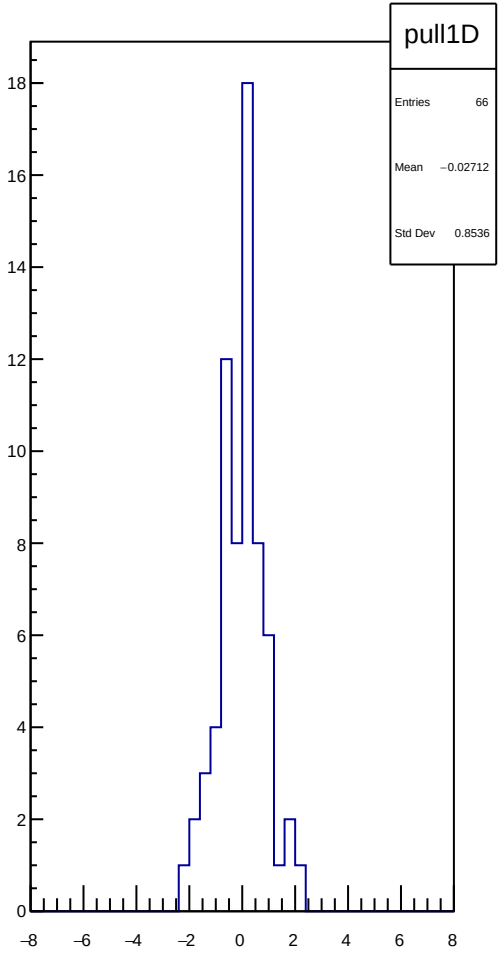

pull1D
Entries 66
Mean 0.02809
Std Dev 0.8542
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

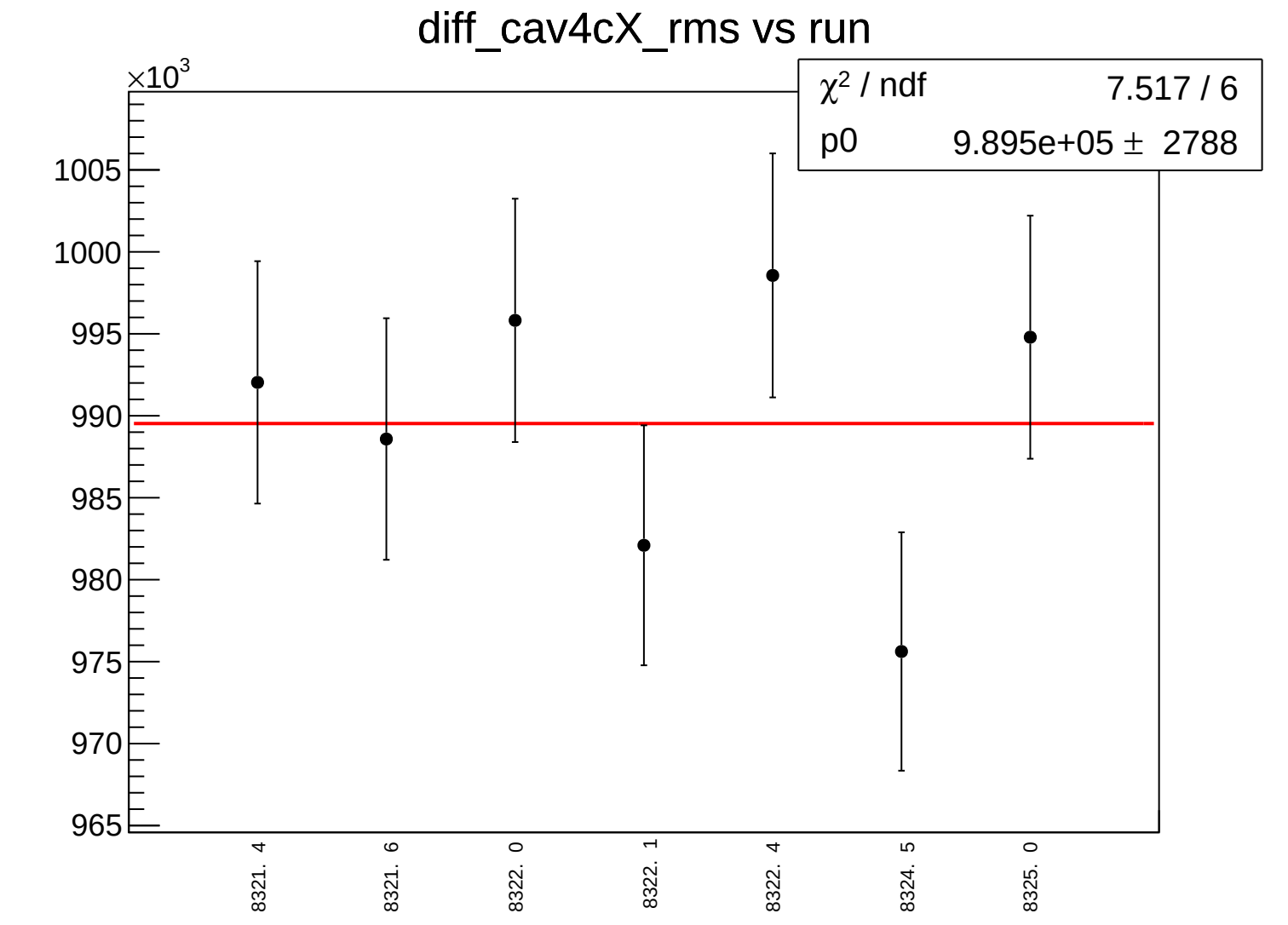

diff_cav4bX_rms vs run
χ² / ndf 2898 / 65
p0 4.061e+04 ± 35.77
46000
44000
42000
40000
38000
36000

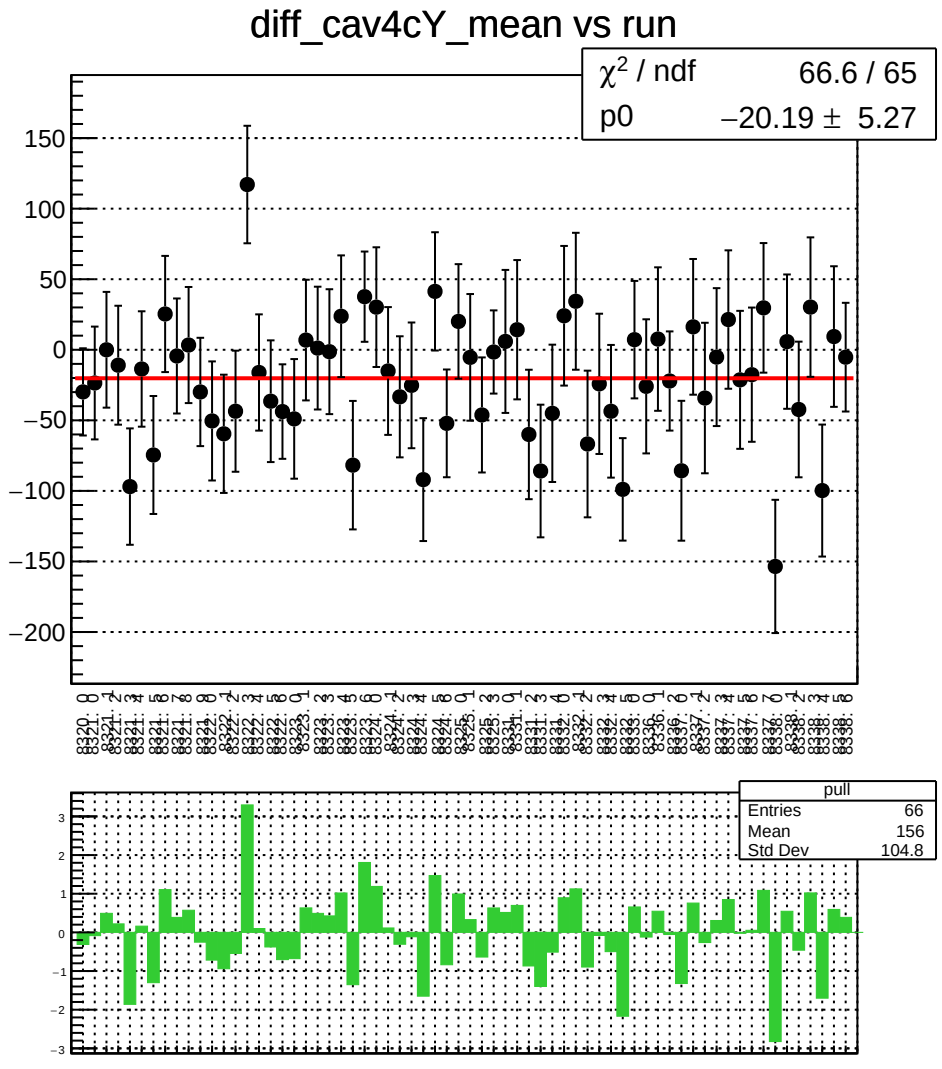

diff_cav4bY_mean vs run
χ² / ndf 64.9 / 65
p0 −20.16 ± 6.14
pull
Entries 66
Mean 196.5
Std Dev 143.7
pull1D
Entries 66
Mean −0.003461
Std Dev 0.9916

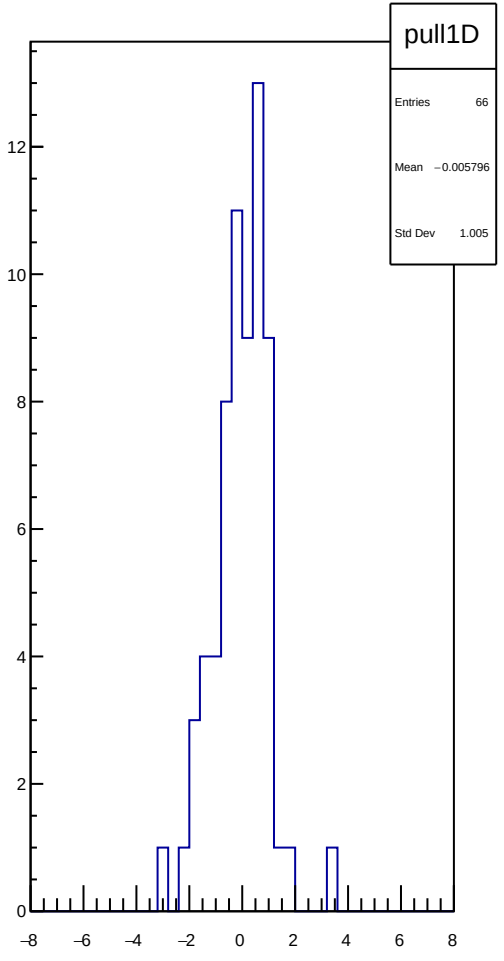

diff_cav4bY_rms vs run
χ² / ndf 1.226e+04 / 65
p0 4911 ± 4.342
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

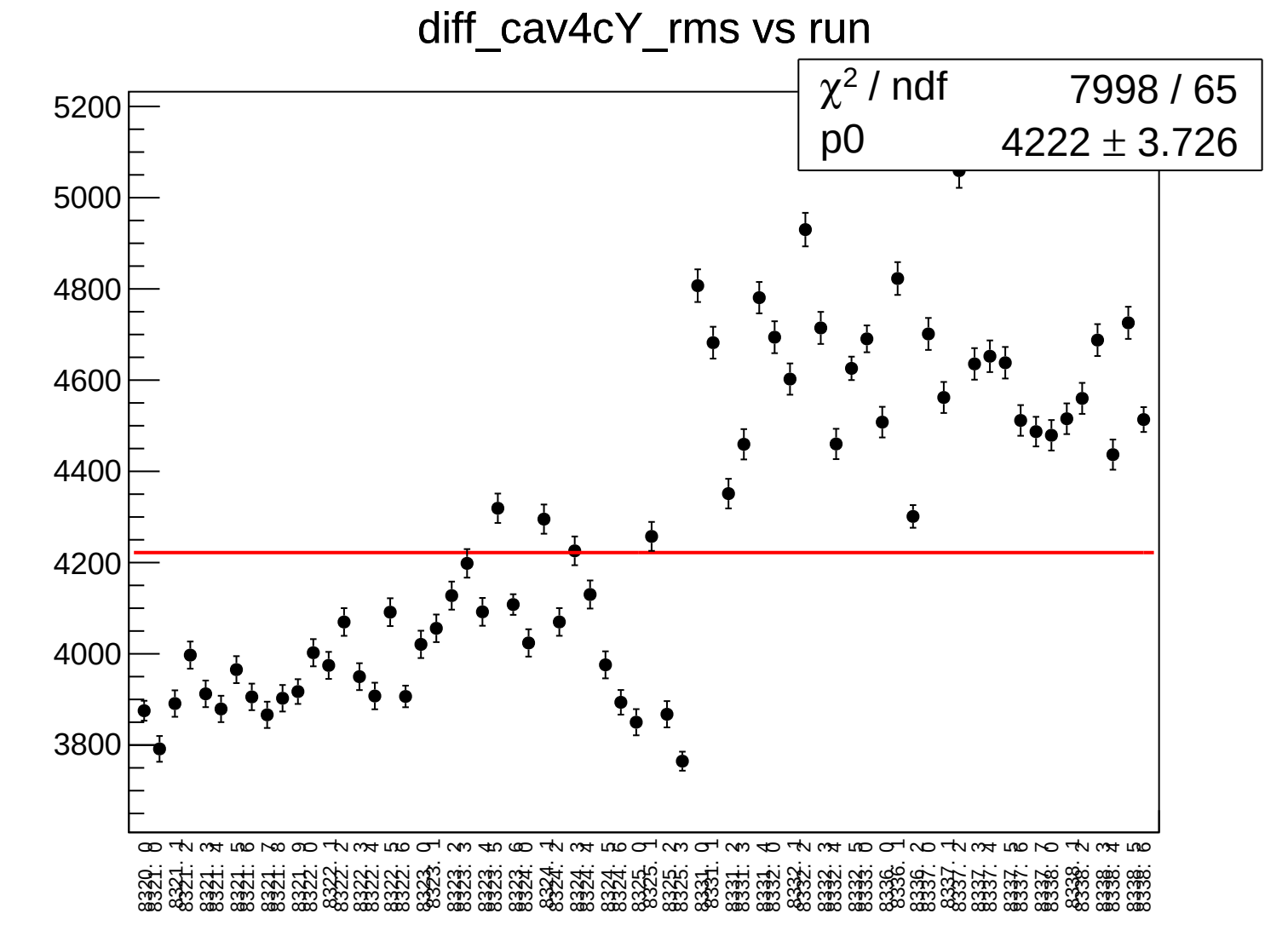

diff_cav4cX_mean vs run
χ² / ndf 48.13 / 65
p0 −4626 ± 1319
30000
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 66
Mean 57.98
Std Dev 21.29
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

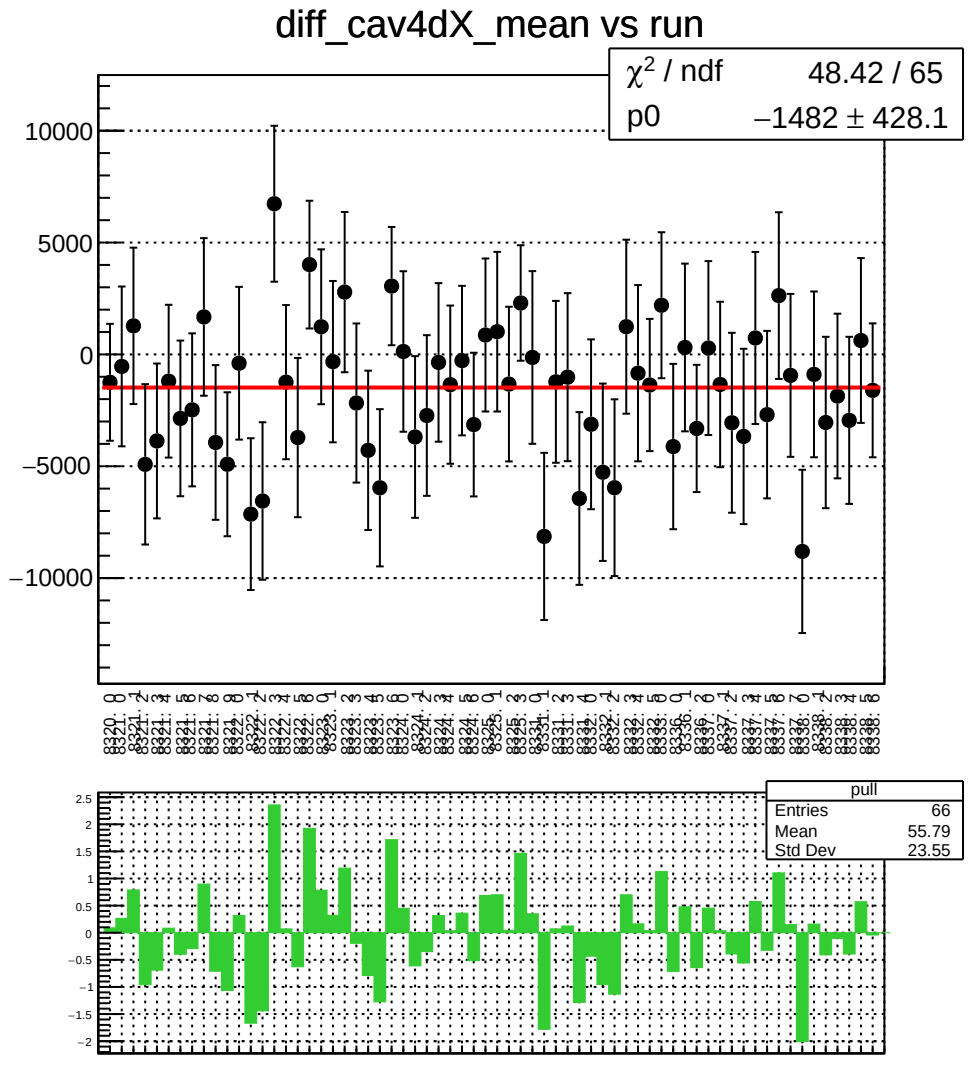

pull1D
Entries 66
Mean −0.02712
Std Dev 0.8536
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

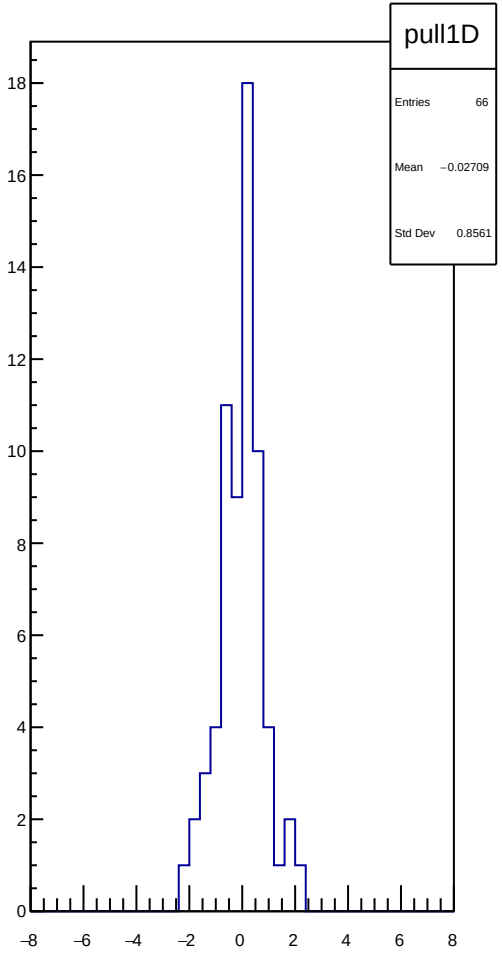

diff_cav4cX_rms vs run
×10^3
χ² / ndf 7.517 / 6
p0 9.895e+05 ± 2788
1005
1000
995
990
985
980
975
970
965
8321. 4
8321. 6
8322. 0
8322. 1
8322. 4
8324. 5
8325. 0

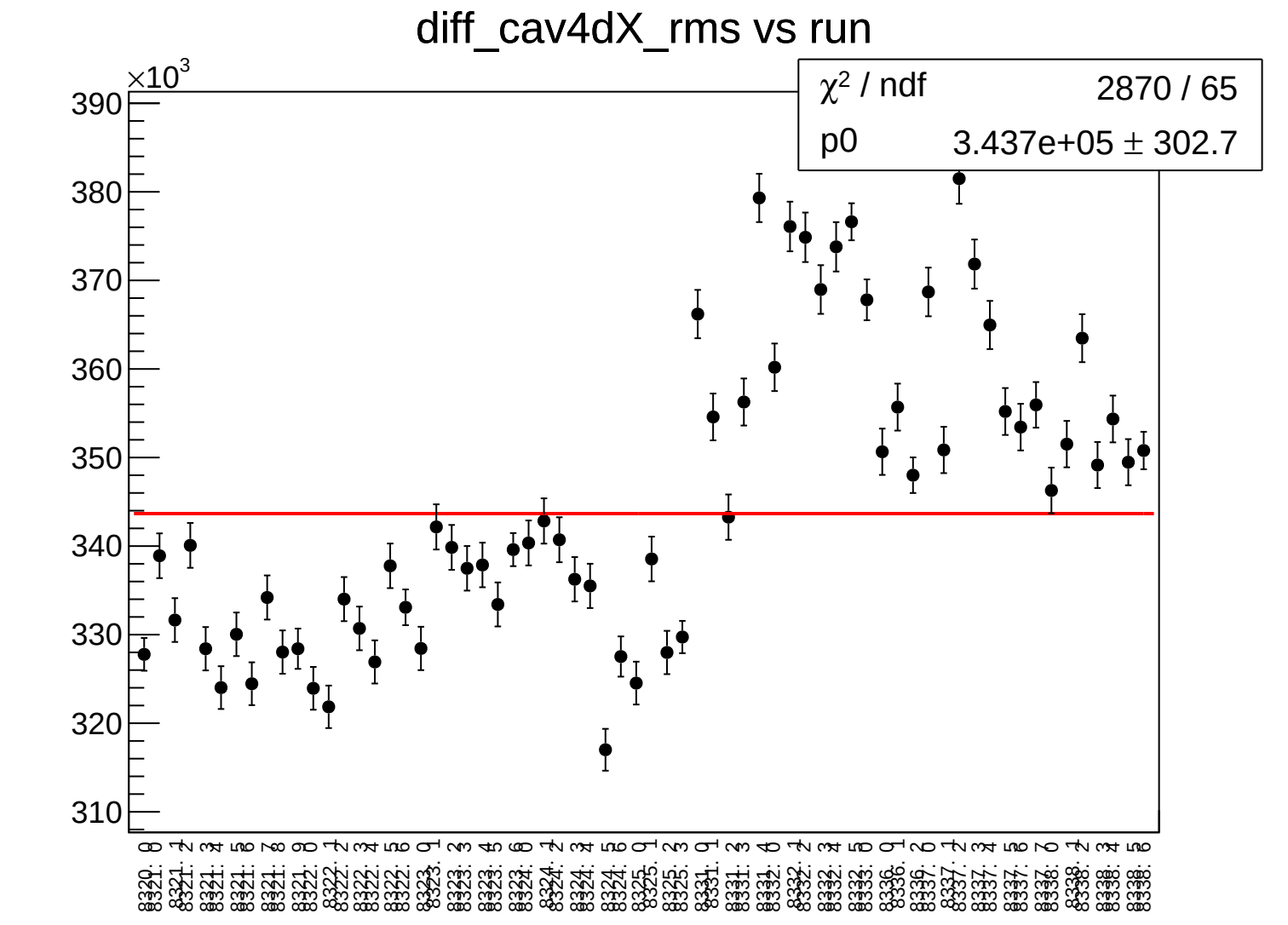

diff_cav4cY_mean vs run
χ² / ndf 66.6 / 65
p0 −20.19 ± 5.27
pull
Entries 66
Mean 156
Std Dev 104.8

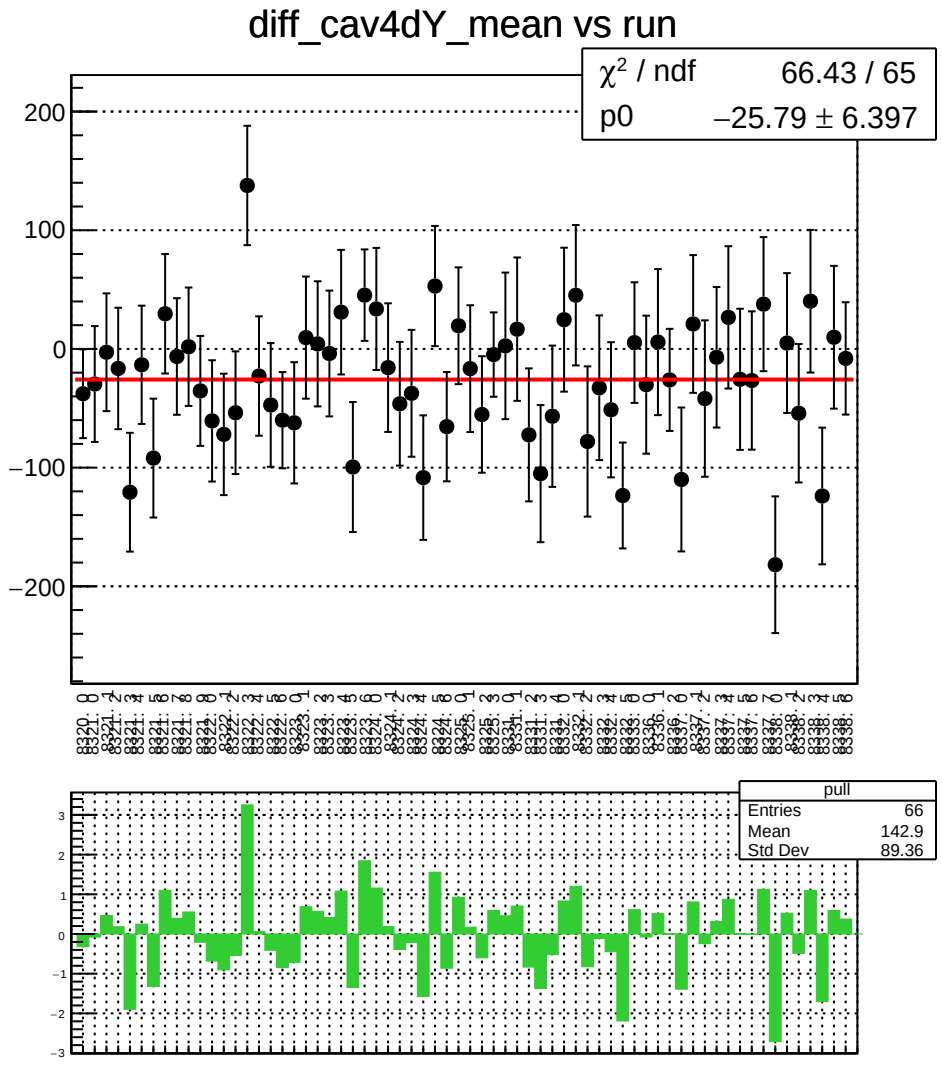

pull1D
Entries 66
Mean −0.005796
Std Dev 1.005

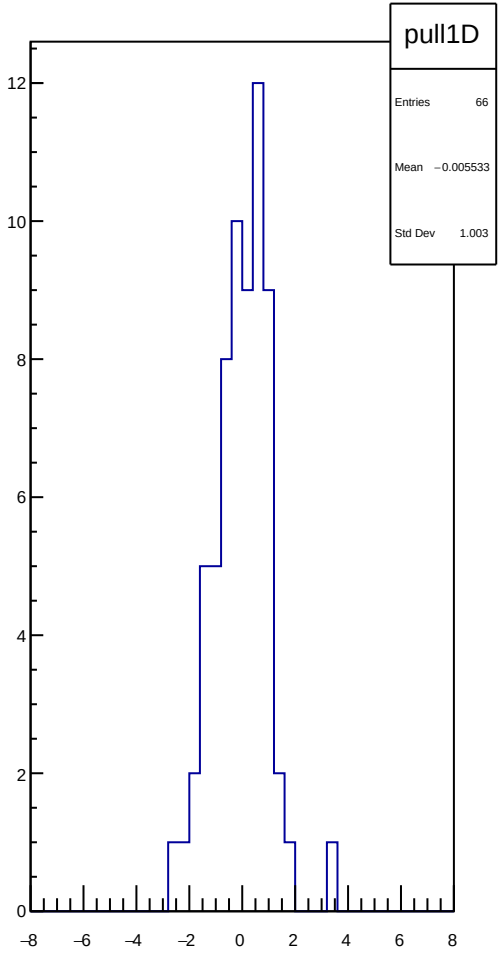

diff_cav4cY_rms vs run
χ² / ndf 7998 / 65
p0 4222 ± 3.726
5200
5000
4800
4600
4400
4200
4000
3800

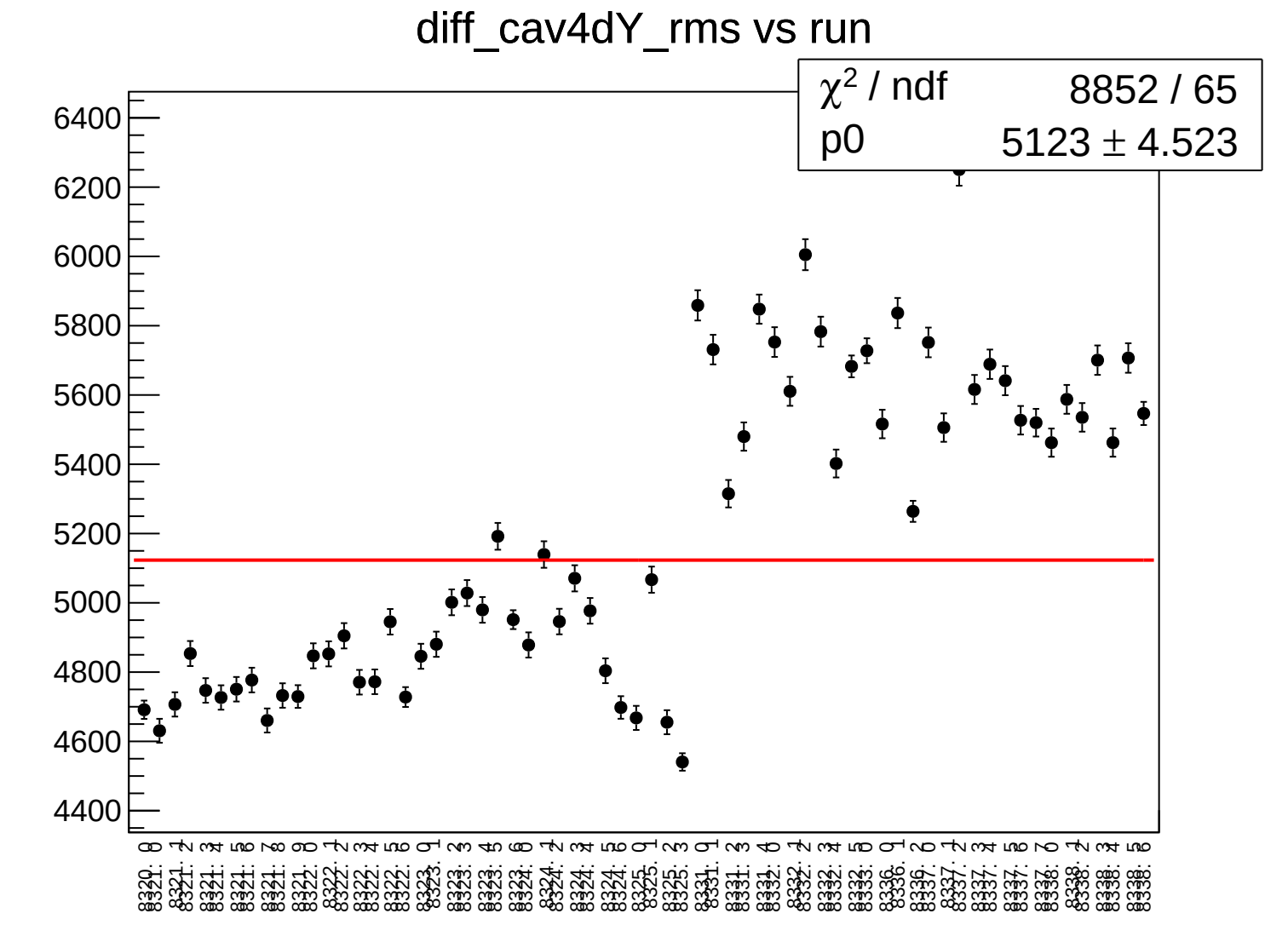

diff_cav4dX_mean vs run
χ² / ndf 48.42 / 65
p0 −1482 ± 428.1
10000
5000
0
−5000
−10000
pull
Entries 66
Mean 55.79
Std Dev 23.55
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

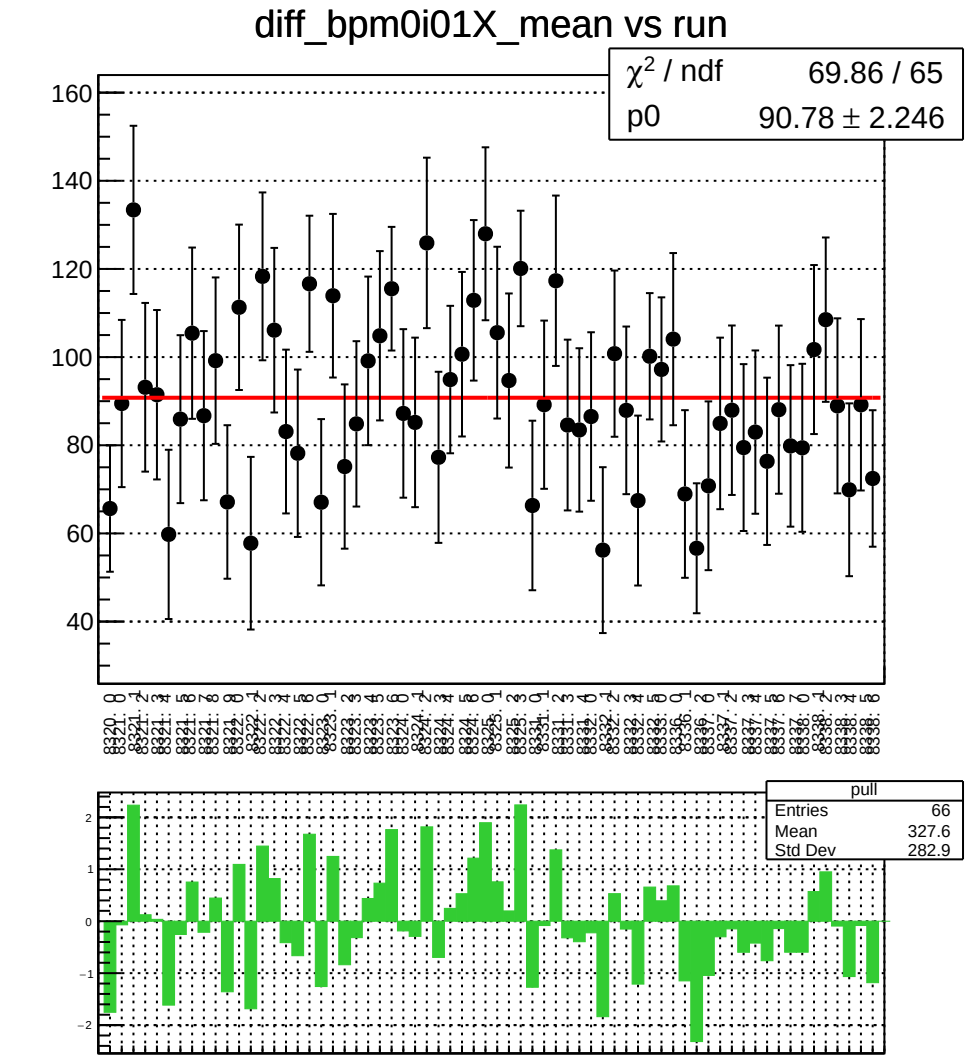

pull1D
Entries 66
Mean −0.02709
Std Dev 0.8561
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

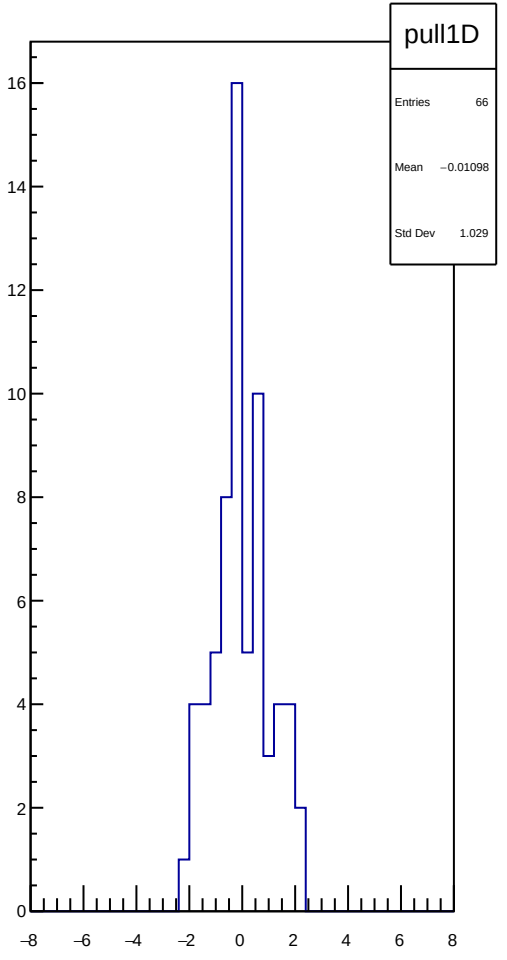

diff_cav4dX_rms vs run
×10^3
390
380
370
360
350
340
330
320
310
χ² / ndf 2870 / 65
p0 3.437e+05 ± 302.7

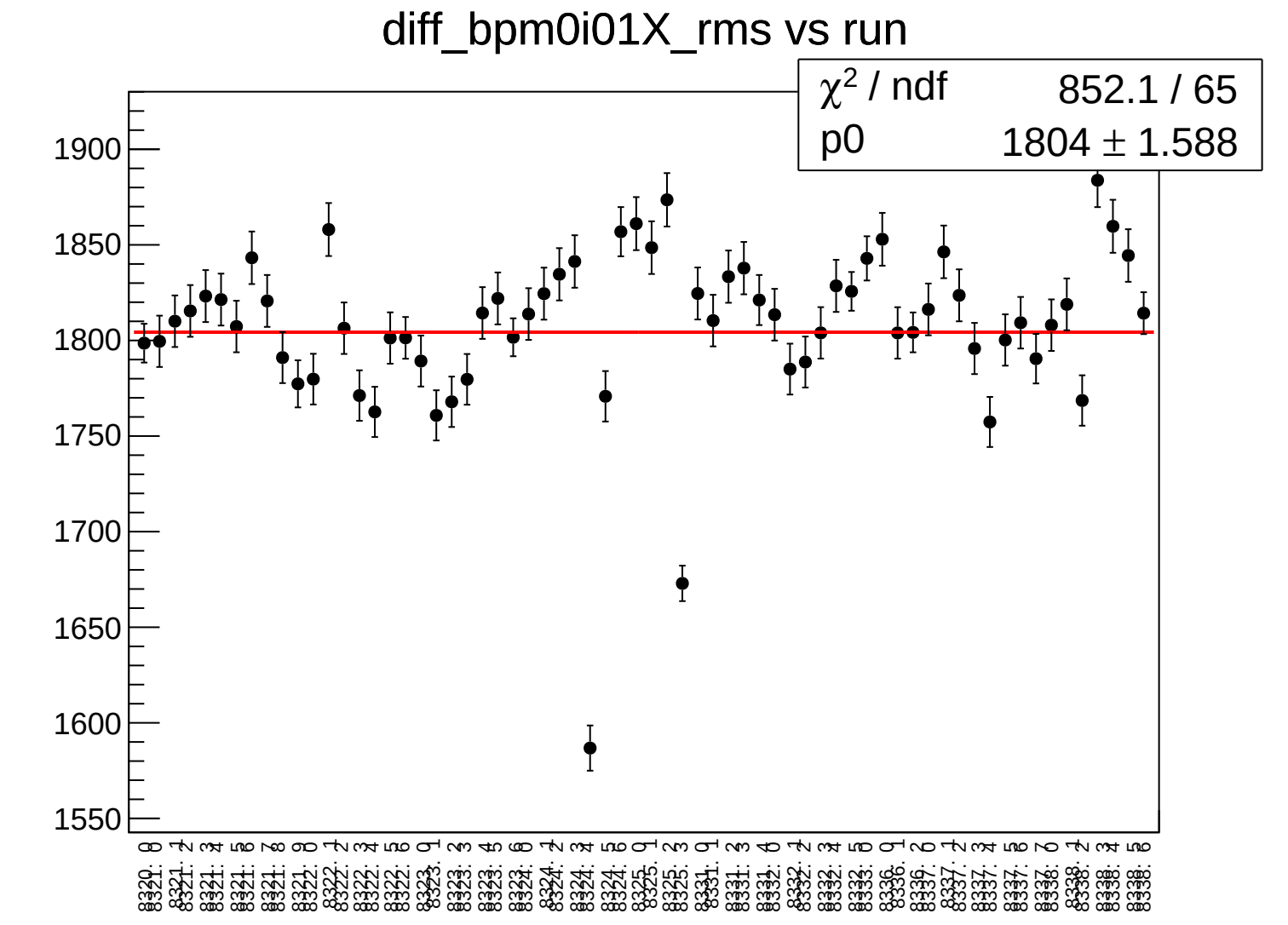

diff_cav4dY_mean vs run
χ^2 / ndf 66.43 / 65
p0 −25.79 ± 6.397
pull
Entries 66
Mean 142.9
Std Dev 89.36

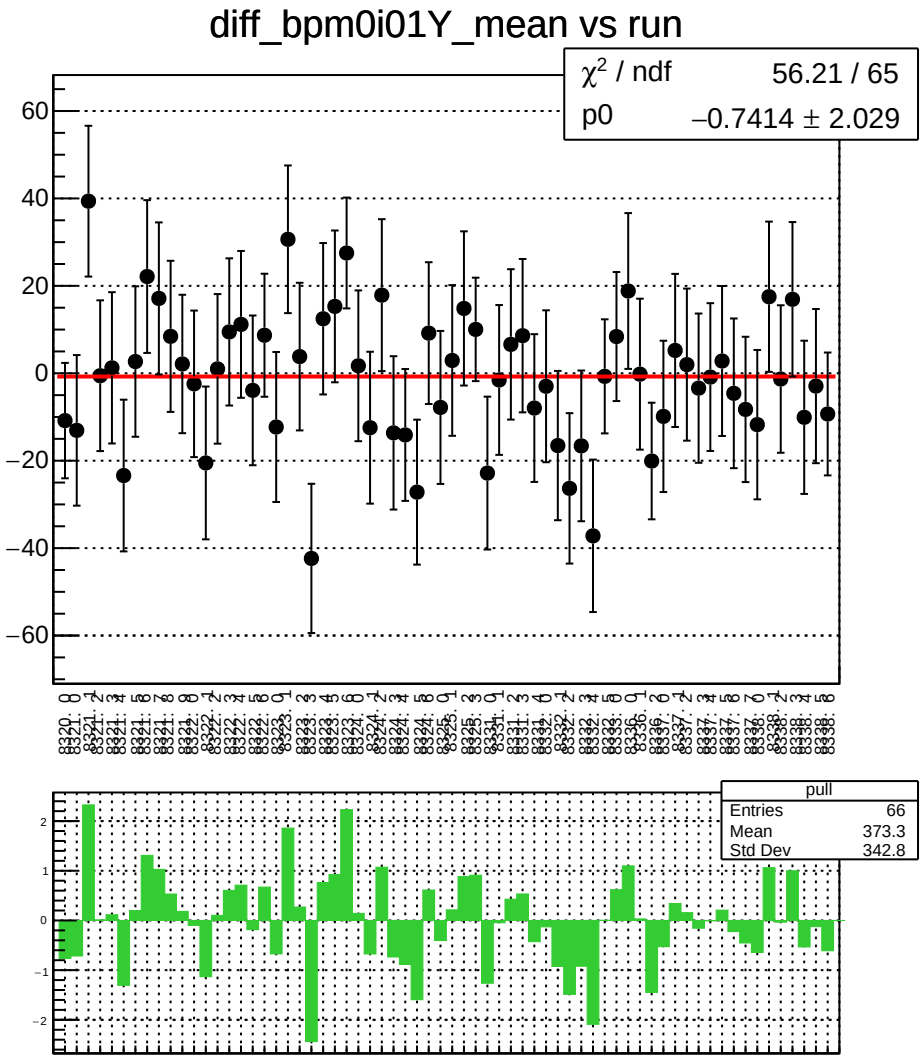

pull1D
Entries 66
Mean −0.005533
Std Dev 1.003

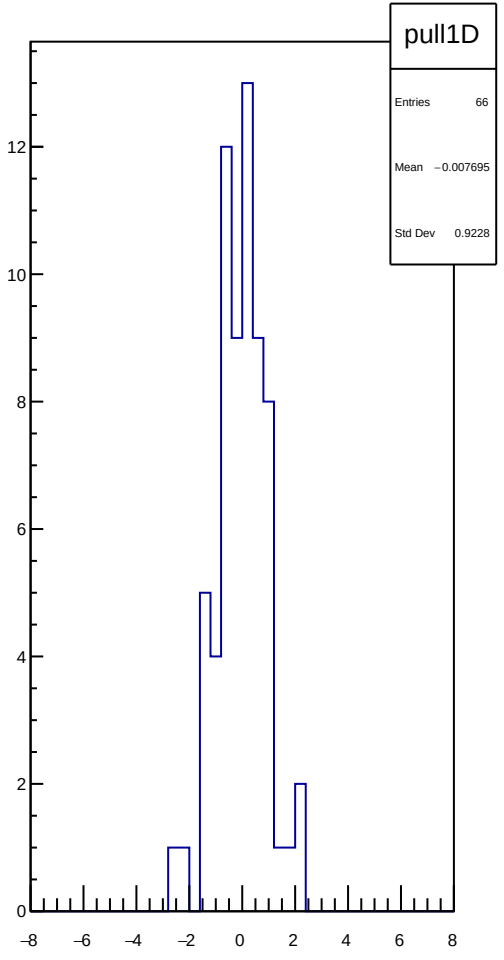

diff_cav4dY_rms vs run
χ² / ndf 8852 / 65
p0 5123 ± 4.523
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400

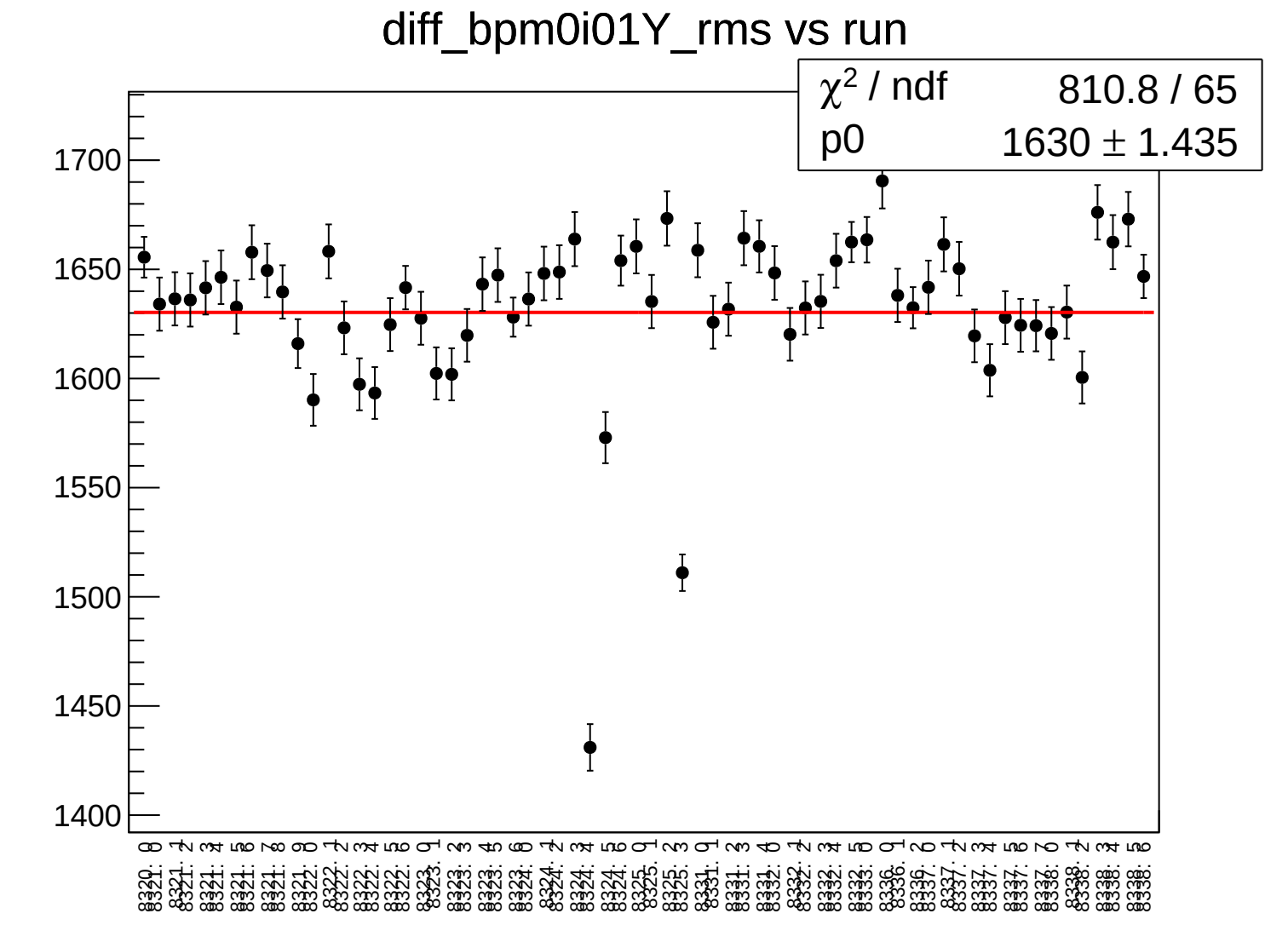

diff_bpm0i01X_mean vs run
χ² / ndf 69.86 / 65
p0 90.78 ± 2.246
pull
Entries 66
Mean 327.6
Std Dev 282.9

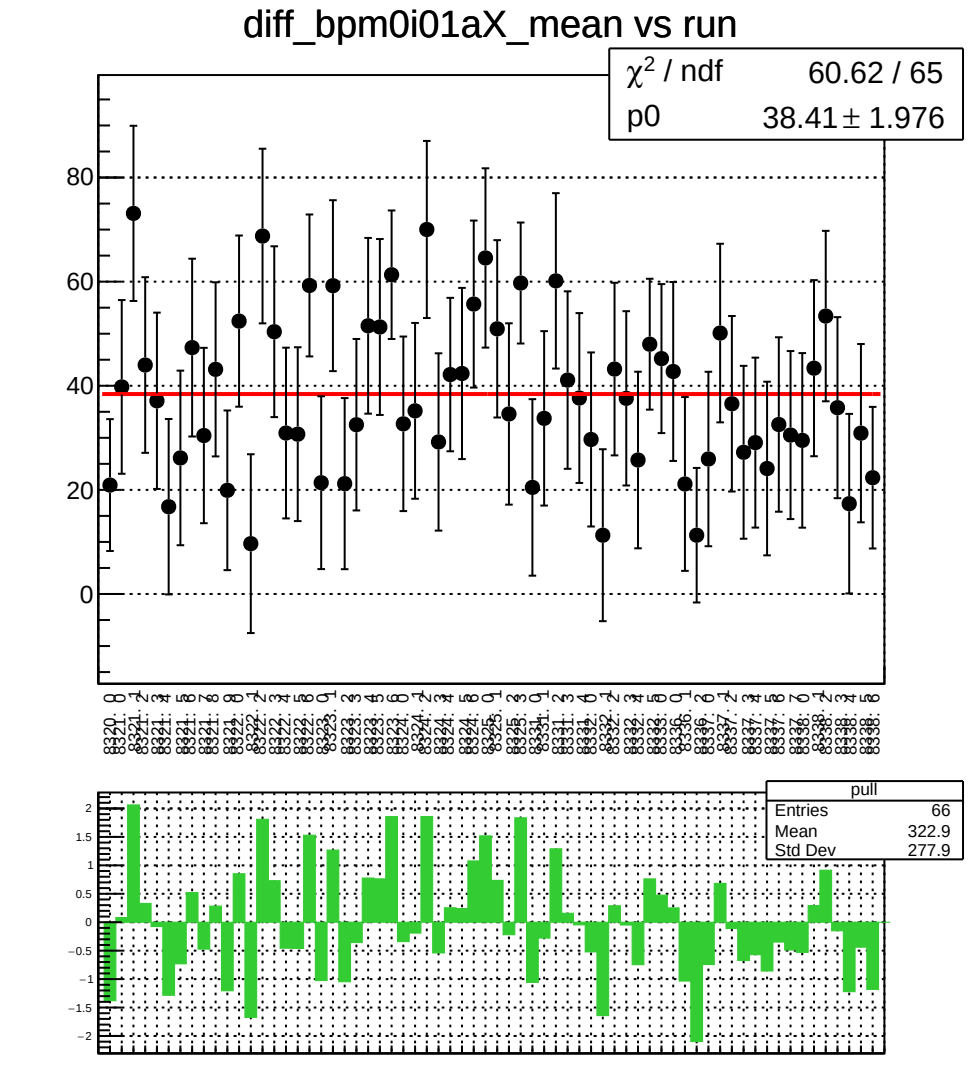

pull1D
Entries 66
Mean −0.01098
Std Dev 1.029

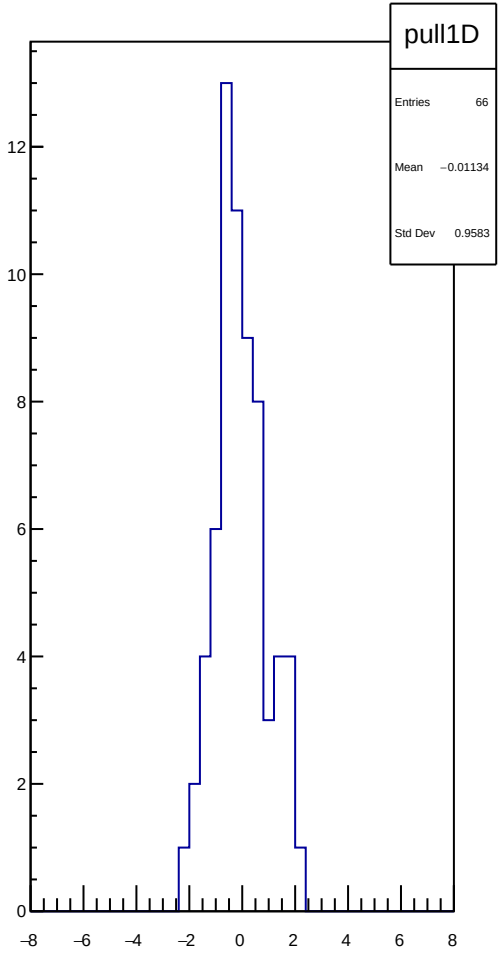

diff_bpm0i01X_rms vs run
χ^2 / ndf 852.1 / 65
p0 1804 ± 1.588
1900
1850
1800
1750
1700
1650
1600
1550

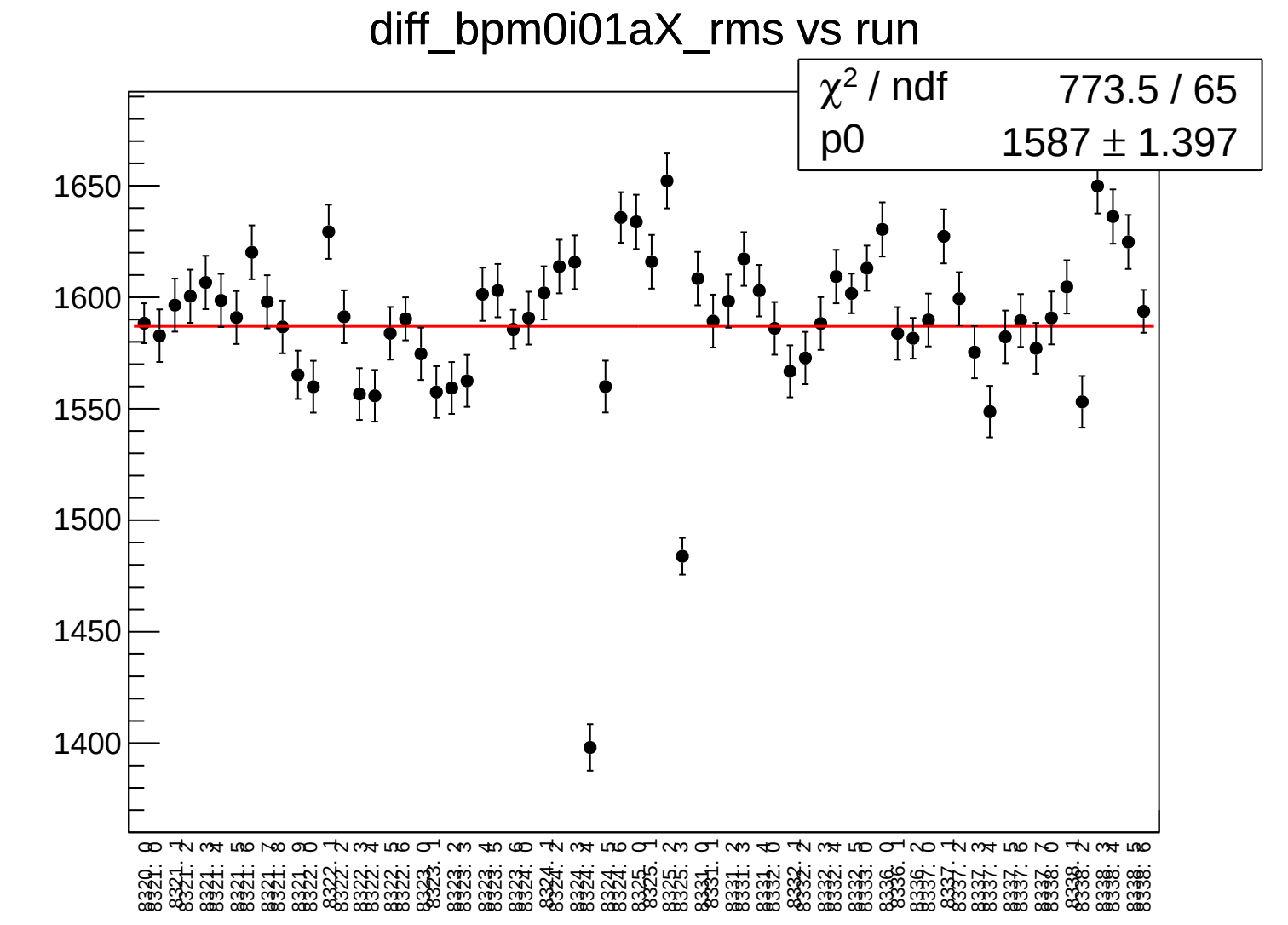

diff_bpm0i01Y_mean vs run
χ² / ndf 56.21 / 65
p0 −0.7414 ± 2.029
pull
Entries 66
Mean 373.3
Std Dev 342.8

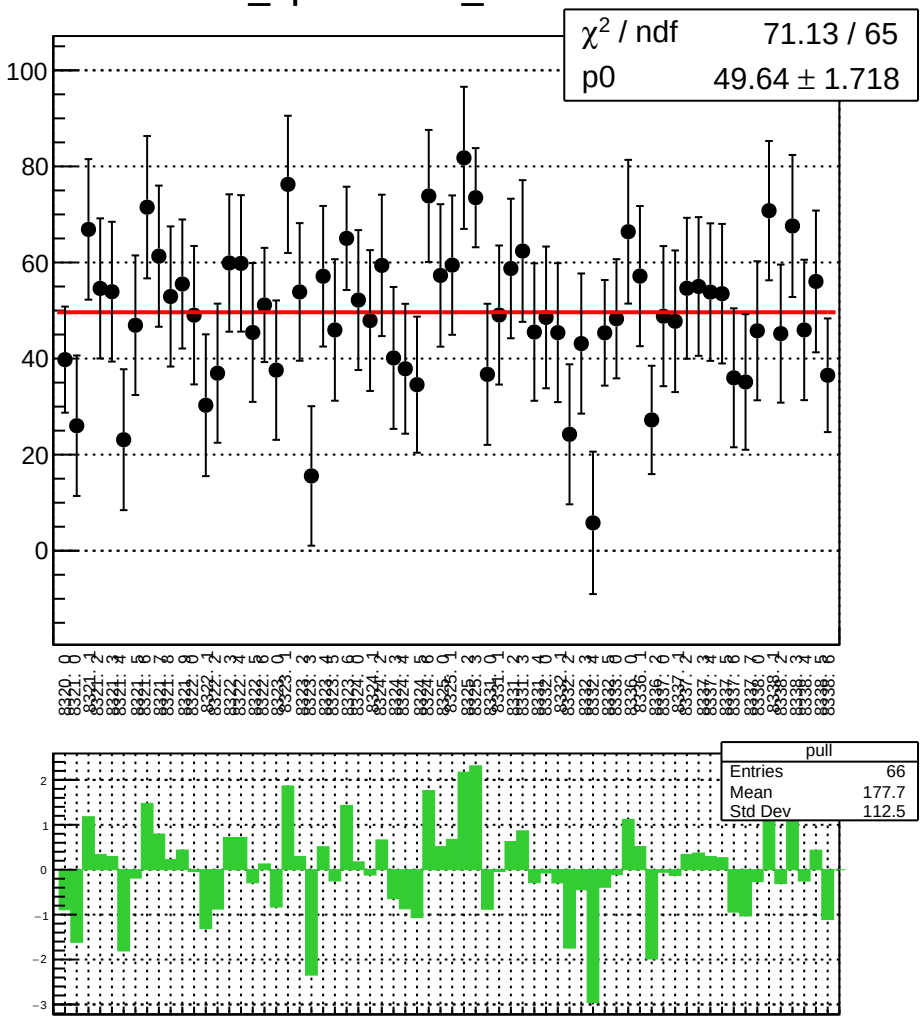

pull1D
Entries 66
Mean −0.007695
Std Dev 0.9228

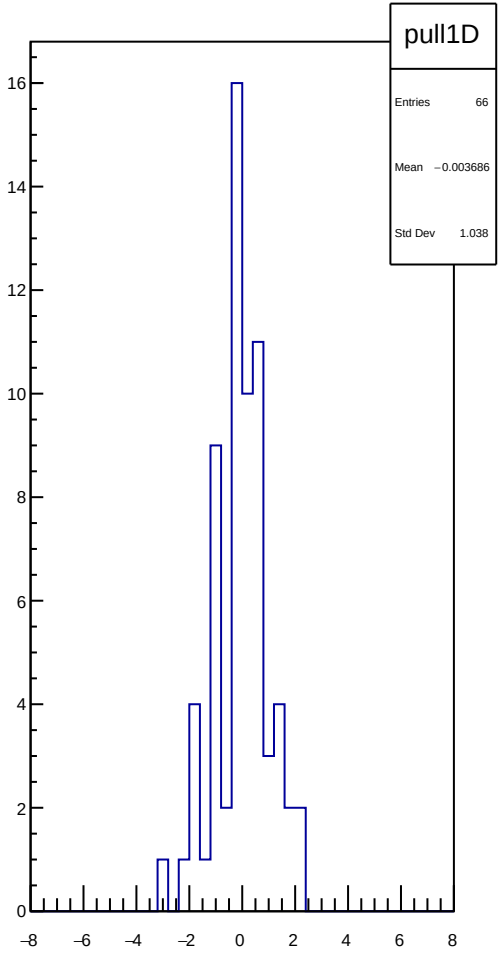

diff_bpm0i01Y_rms vs run
χ² / ndf 810.8 / 65
p0 1630 ± 1.435
1700
1650
1600
1550
1500
1450
1400

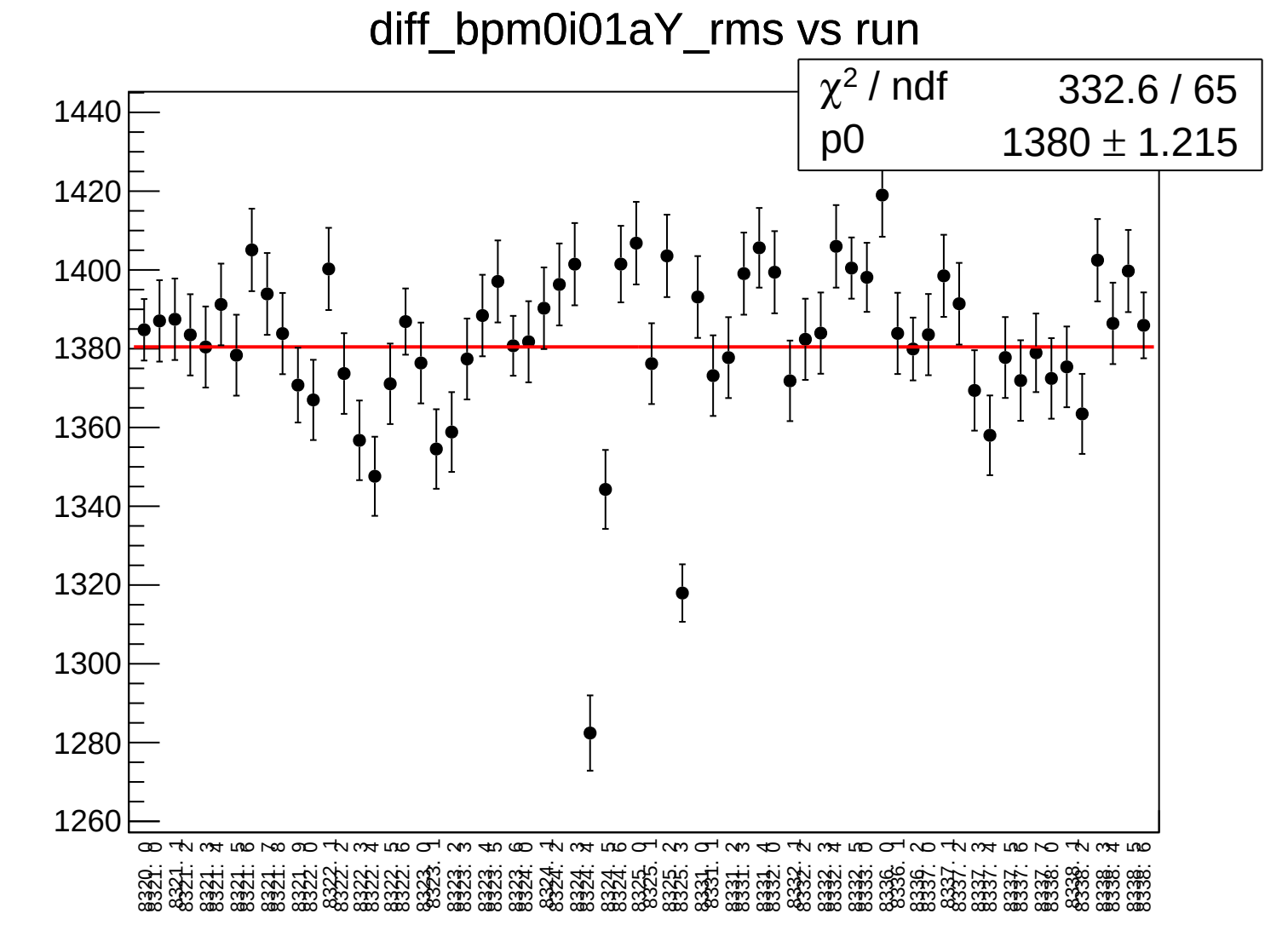

diff_bpm0i01aX_mean vs run
χ² / ndf 60.62 / 65
p0 38.41 ± 1.976
pull
Entries 66
Mean 322.9
Std Dev 277.9

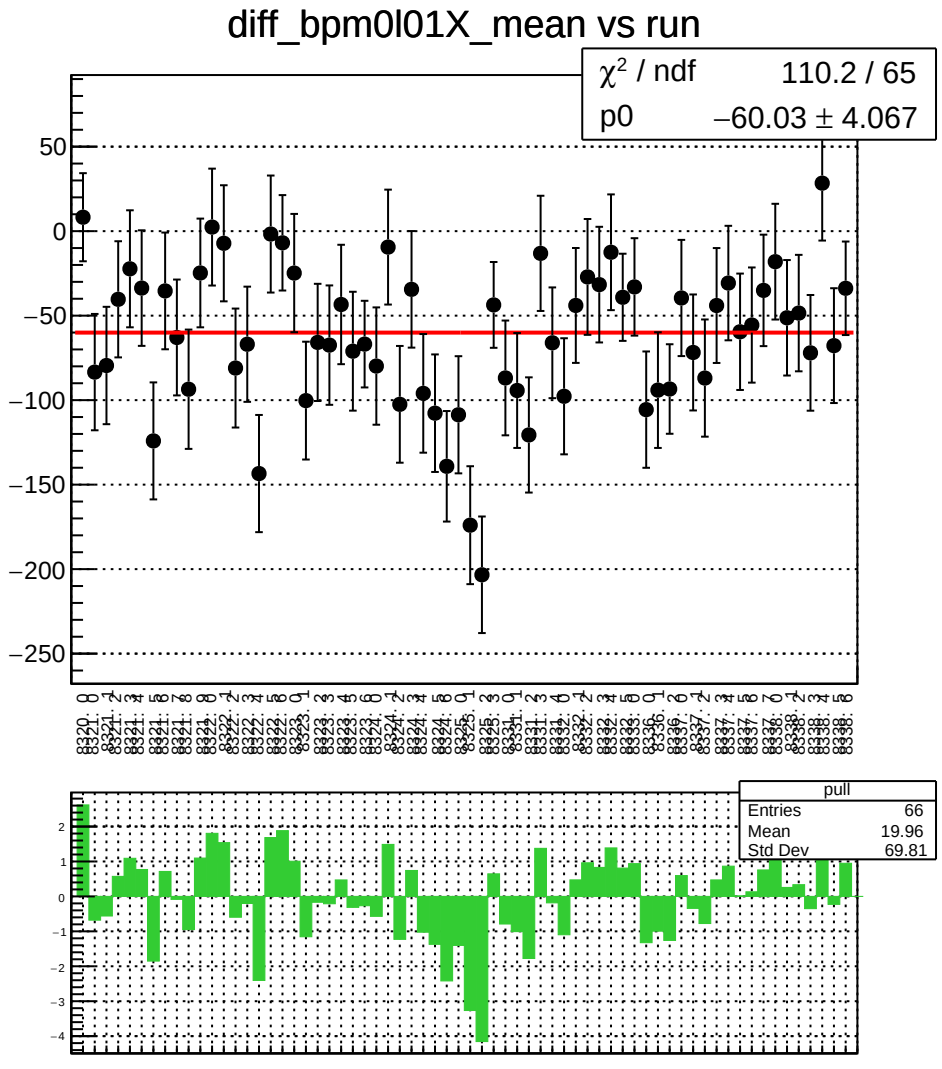

pull1D
Entries 66
Mean −0.01134
Std Dev 0.9583

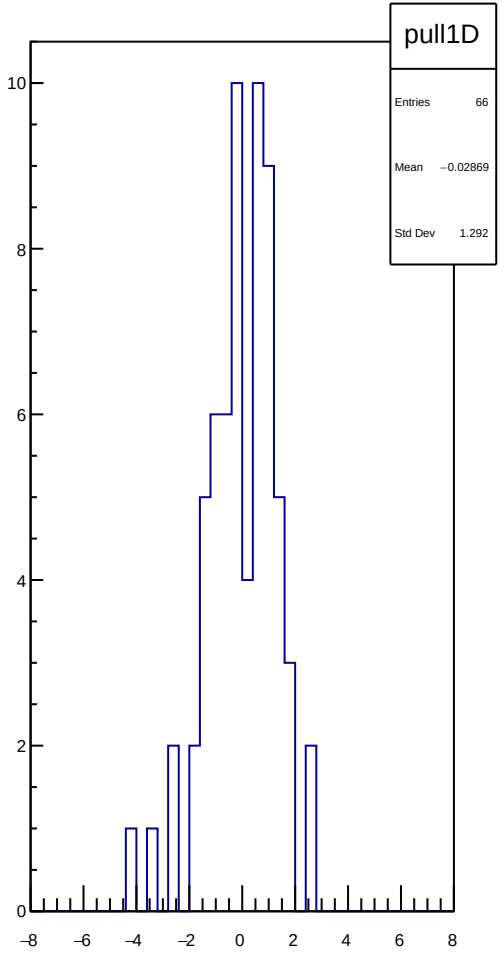

diff_bpm0i01aX_rms vs run
χ² / ndf 773.5 / 65
p0 1587 ± 1.397
1650
1600
1550
1500
1450
1400

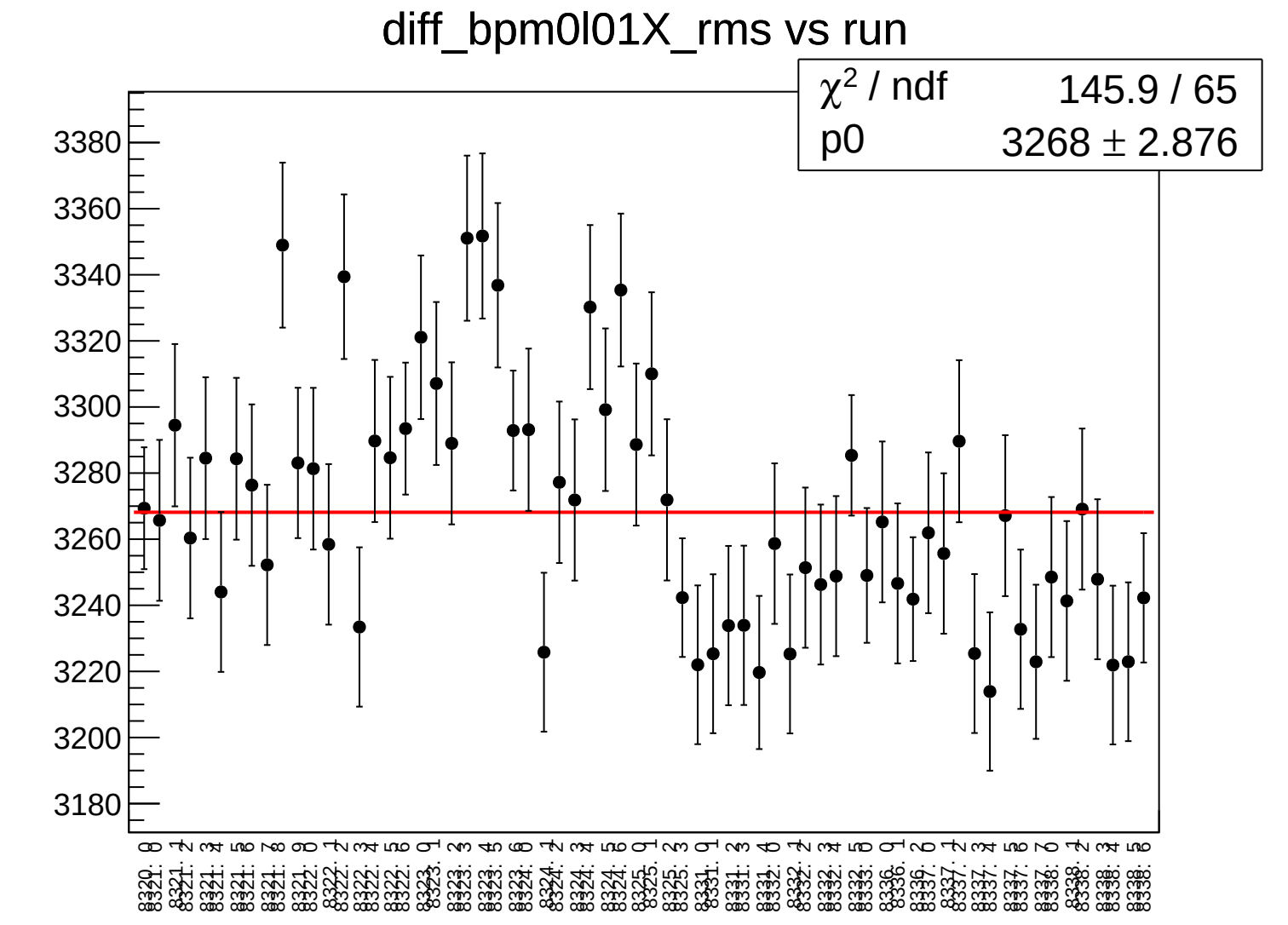

diff_bpm0i01aY_mean vs run
χ² / ndf 71.13 / 65
p0 49.64 ± 1.718
pull
Entries 66
Mean 177.7
Std Dev 112.5

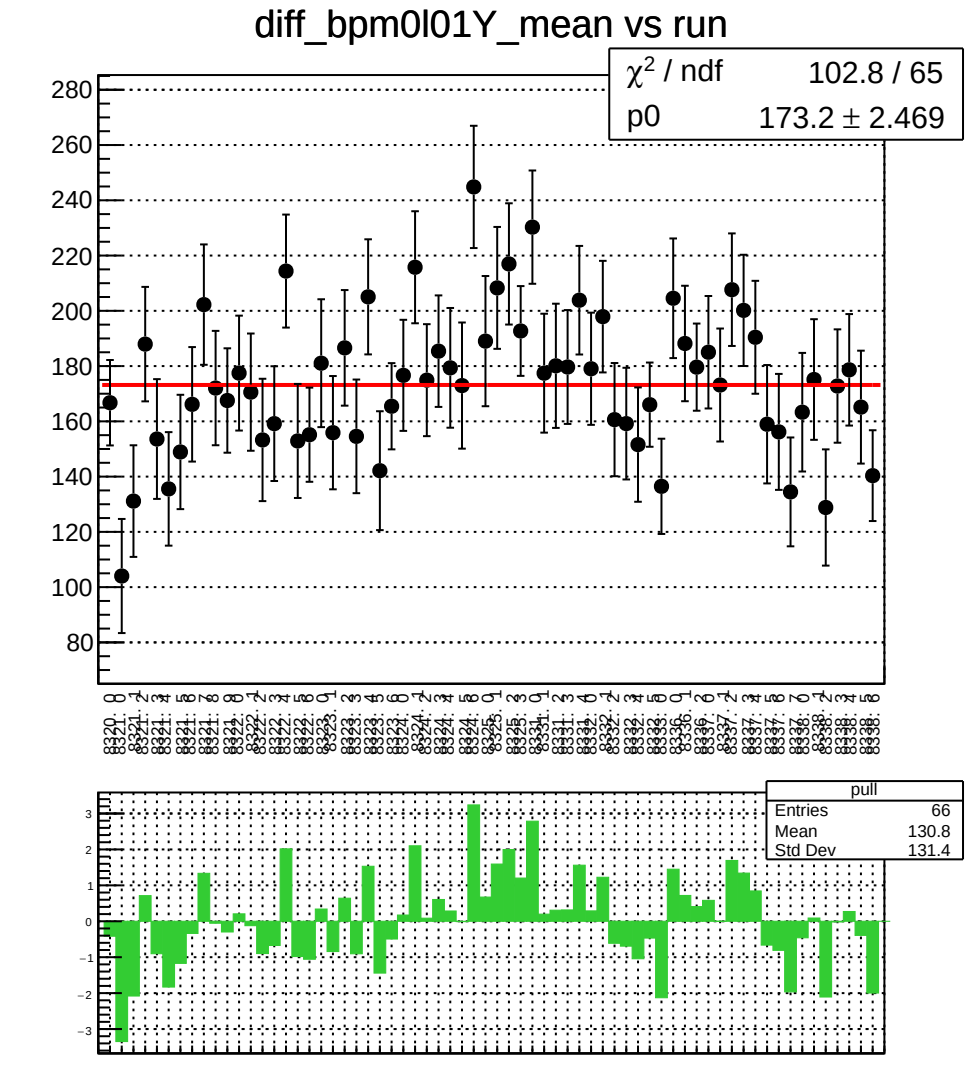

pull1D
Entries 66
Mean −0.003686
Std Dev 1.038

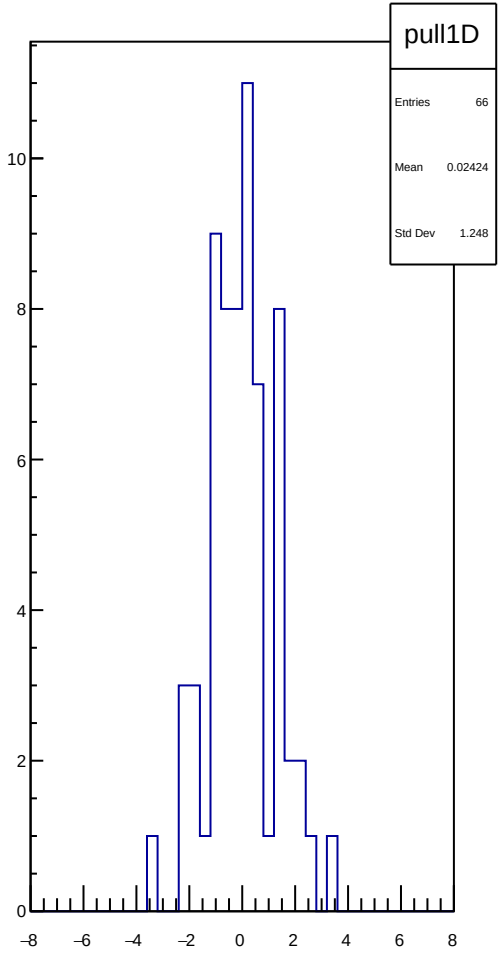

diff_bpm0i01aY_rms vs run
χ² / ndf 332.6 / 65
p0 1380 ± 1.215
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

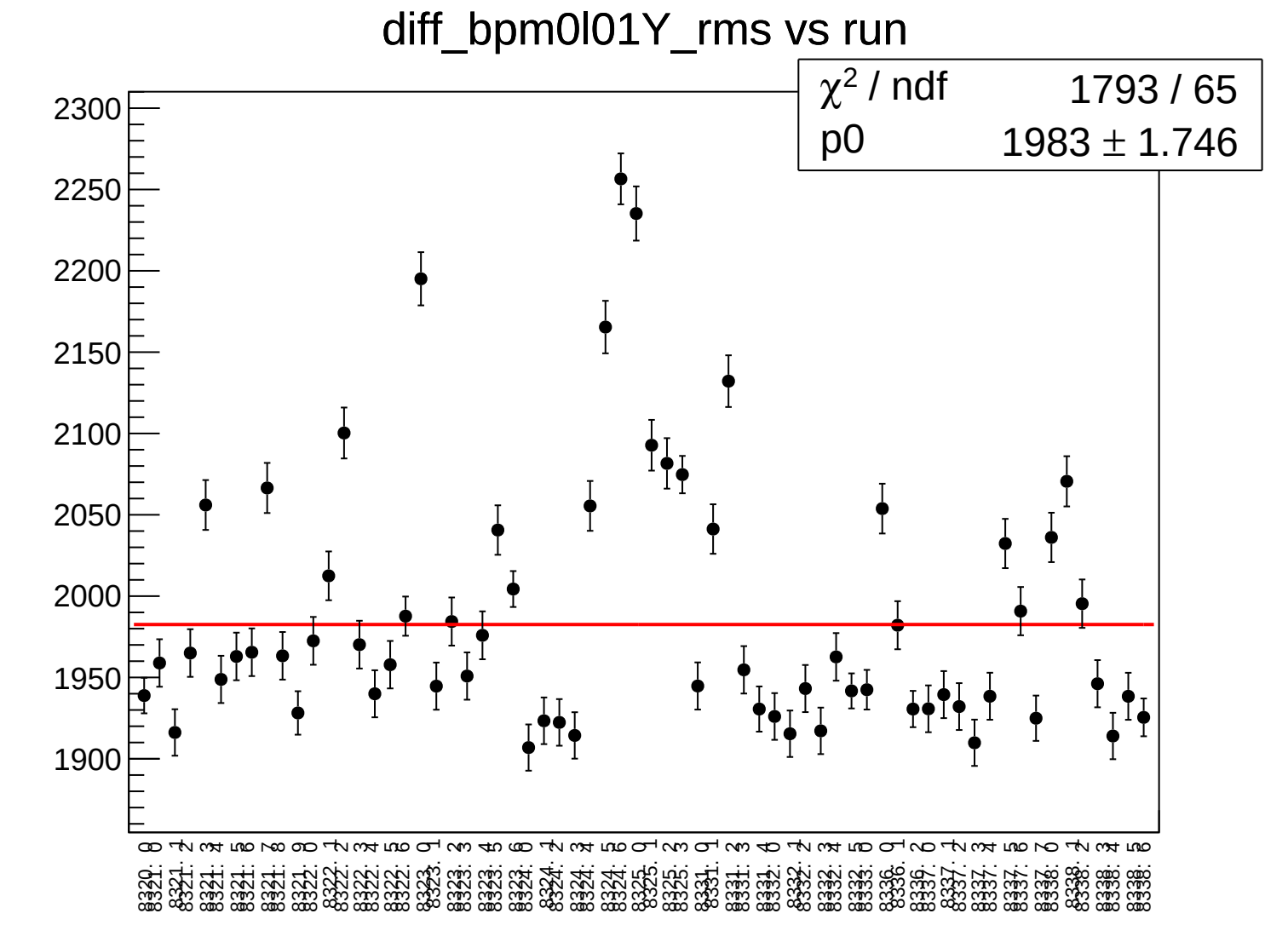

diff_bpm0l01X_mean vs run
χ² / ndf 110.2 / 65
p0 −60.03 ± 4.067
pull
Entries 66
Mean 19.96
Std Dev 69.81

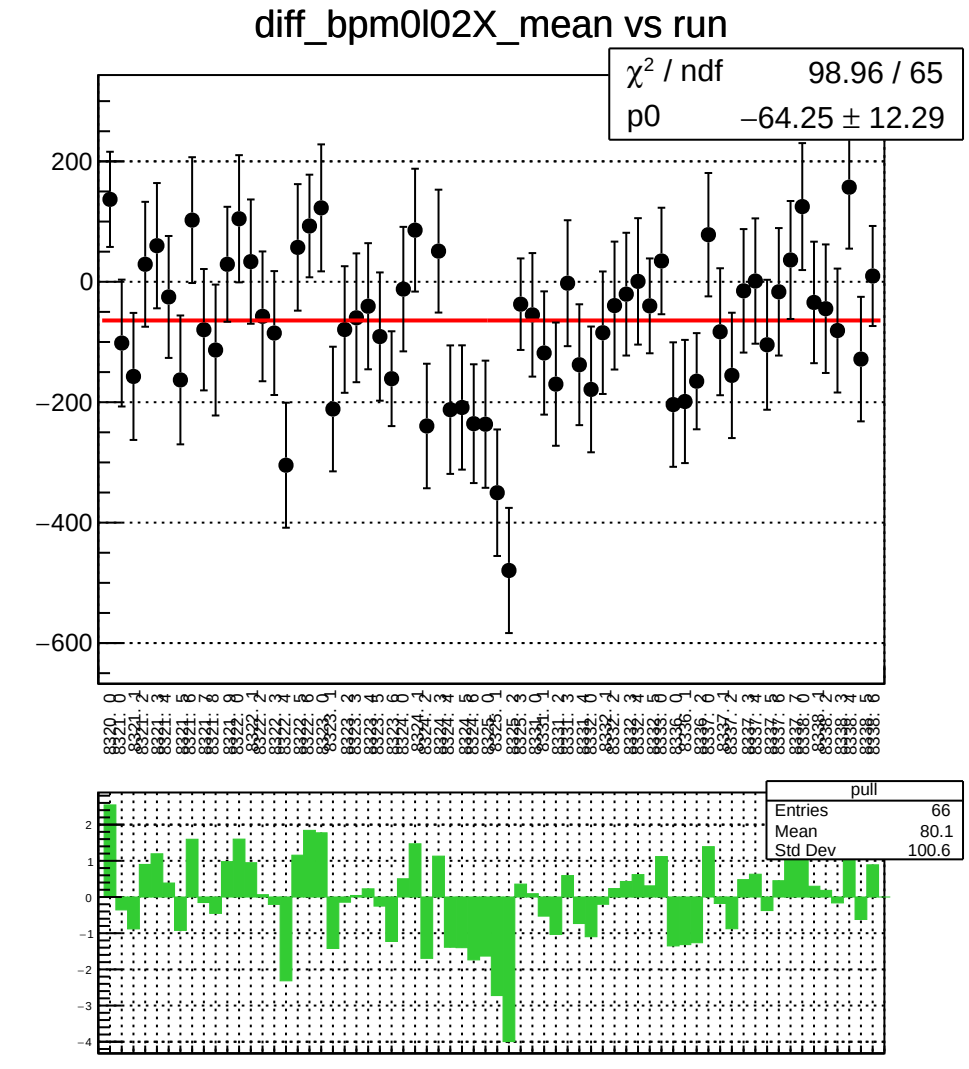

pull1D
Entries 66
Mean −0.02869
Std Dev 1.292

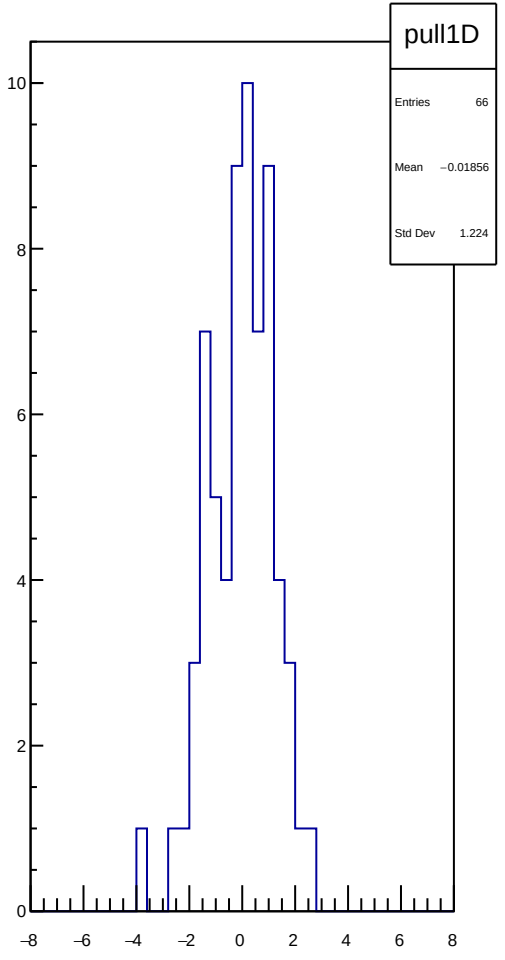

diff_bpm0l01X_rms vs run
χ² / ndf 145.9 / 65
p0 3268 ± 2.876
3380
3360
3340
3320
3300
3280
3260
3240
3220
3200
3180

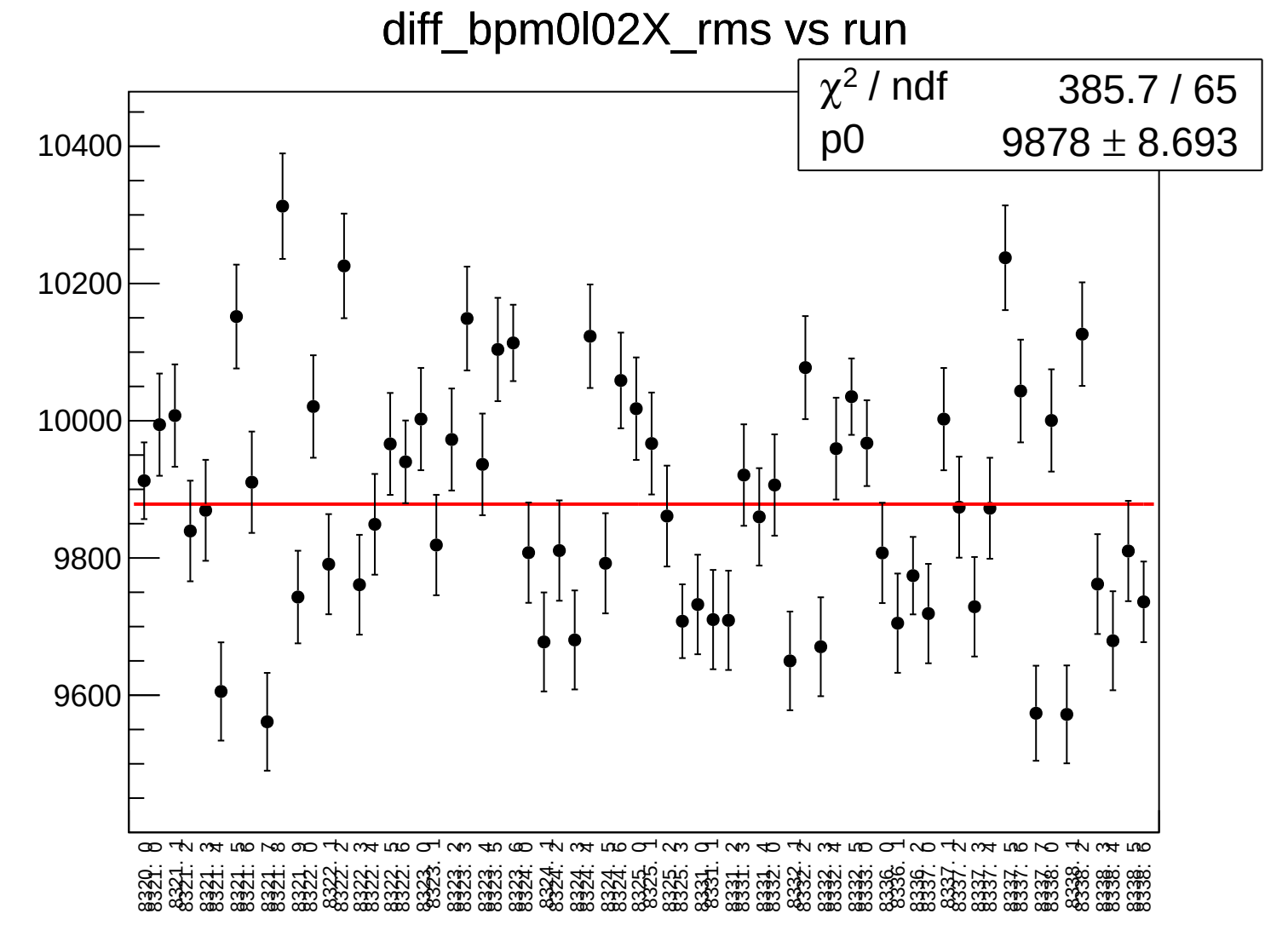

diff_bpm0l01Y_mean vs run
χ^2 / ndf 102.8 / 65
p0 173.2 ± 2.469
pull
Entries 66
Mean 130.8
Std Dev 131.4

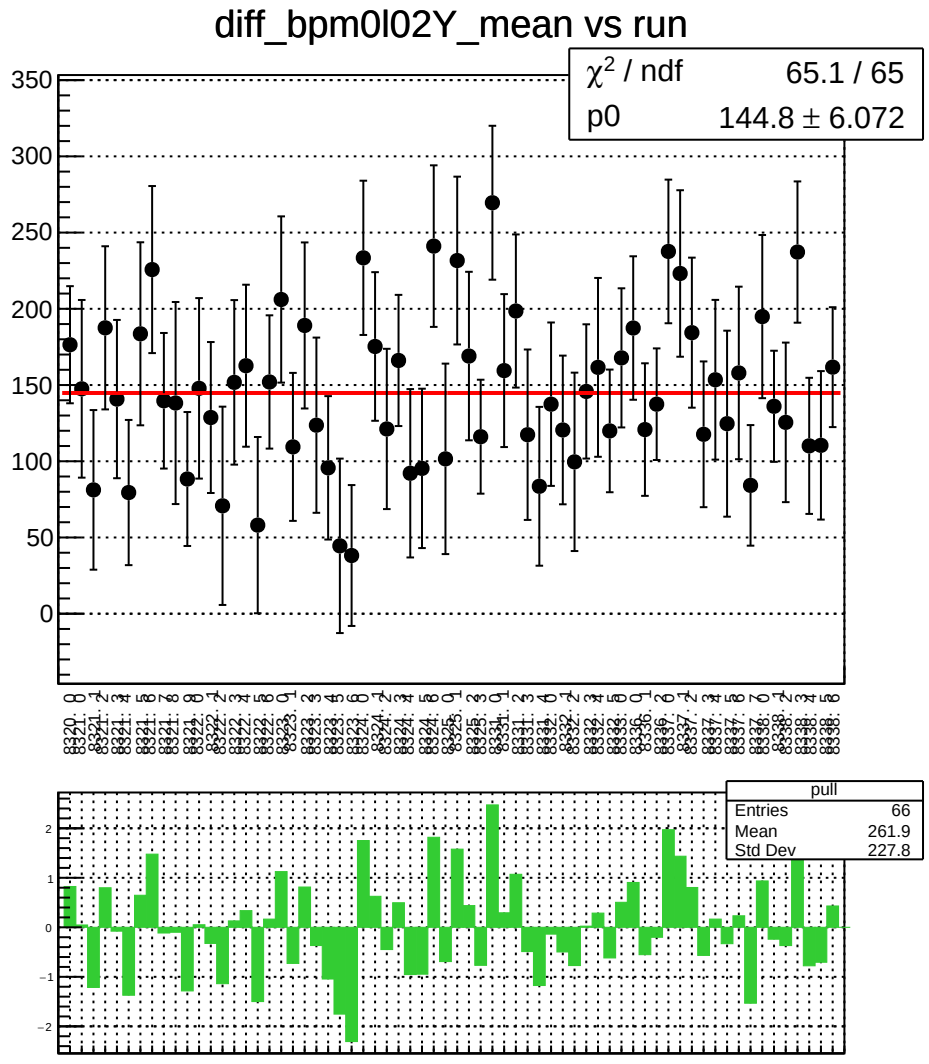

pull1D
Entries 66
Mean 0.02424
Std Dev 1.248

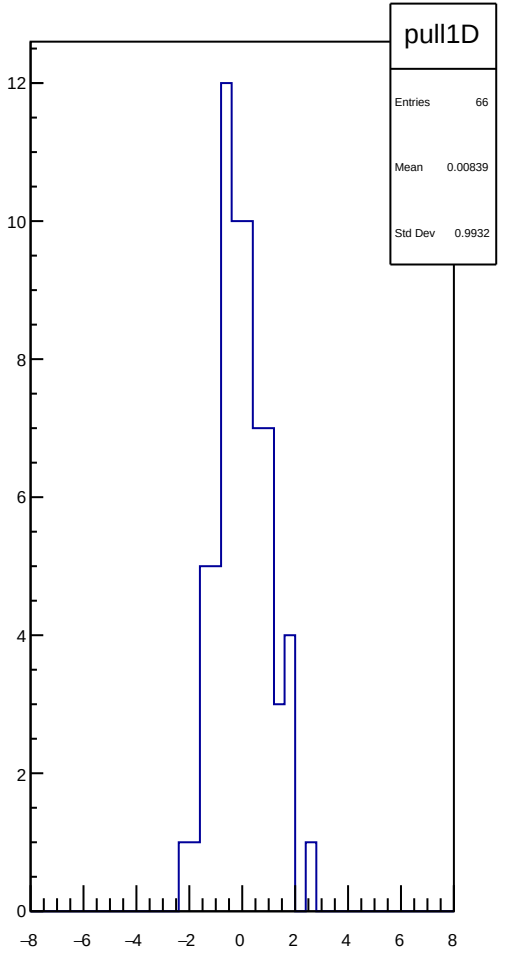

diff_bpm0l01Y_rms vs run
χ² / ndf 1793 / 65
p0 1983 ± 1.746
2300
2250
2200
2150
2100
2050
2000
1950
1900

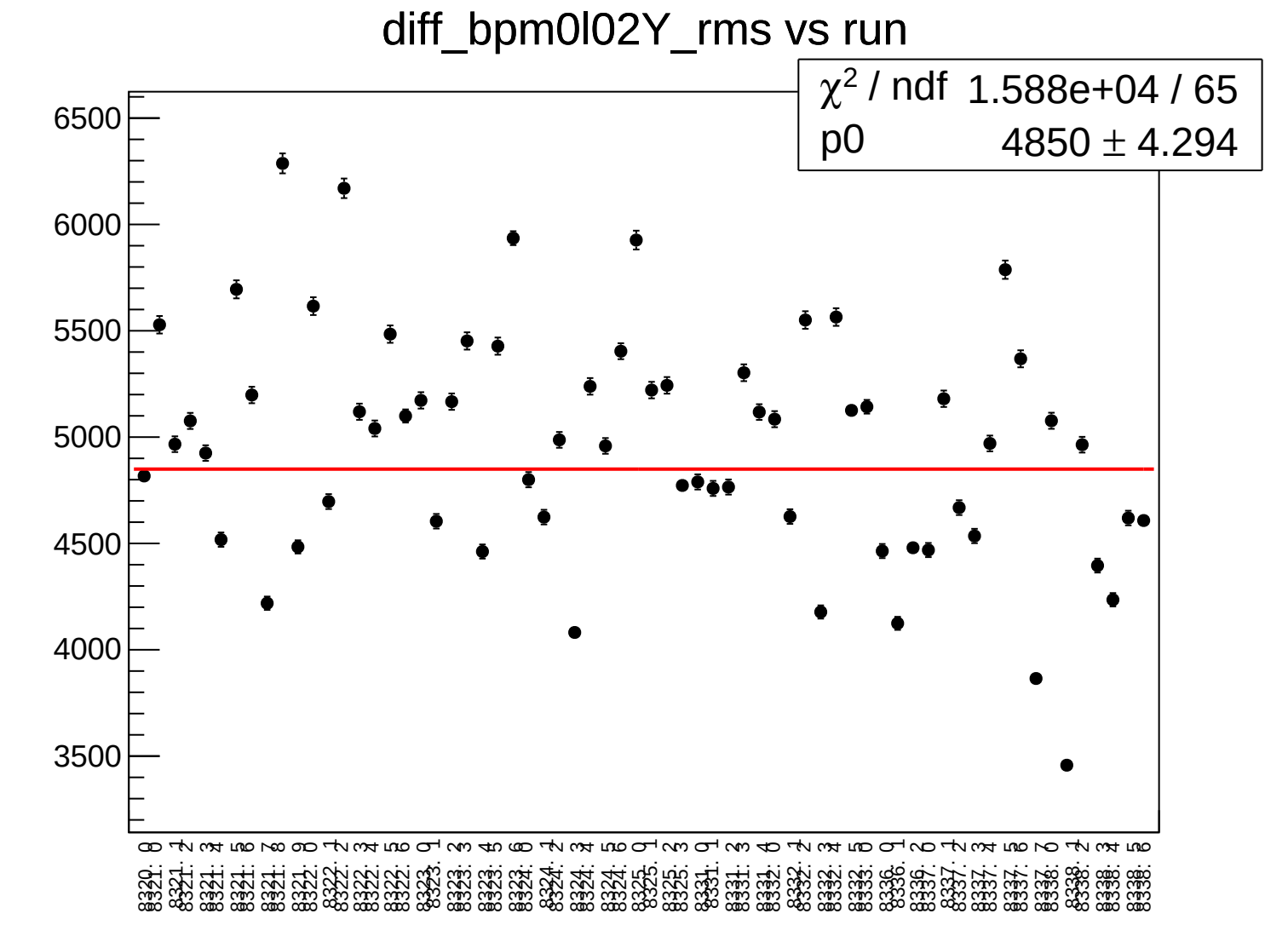

diff_bpm0l02X_mean vs run
χ² / ndf 98.96 / 65
p0 −64.25 ± 12.29
200
0
−200
−400
−600
pull
Entries 66
Mean 80.1
Std Dev 100.6
2
1
0
−1
−2
−3
−4

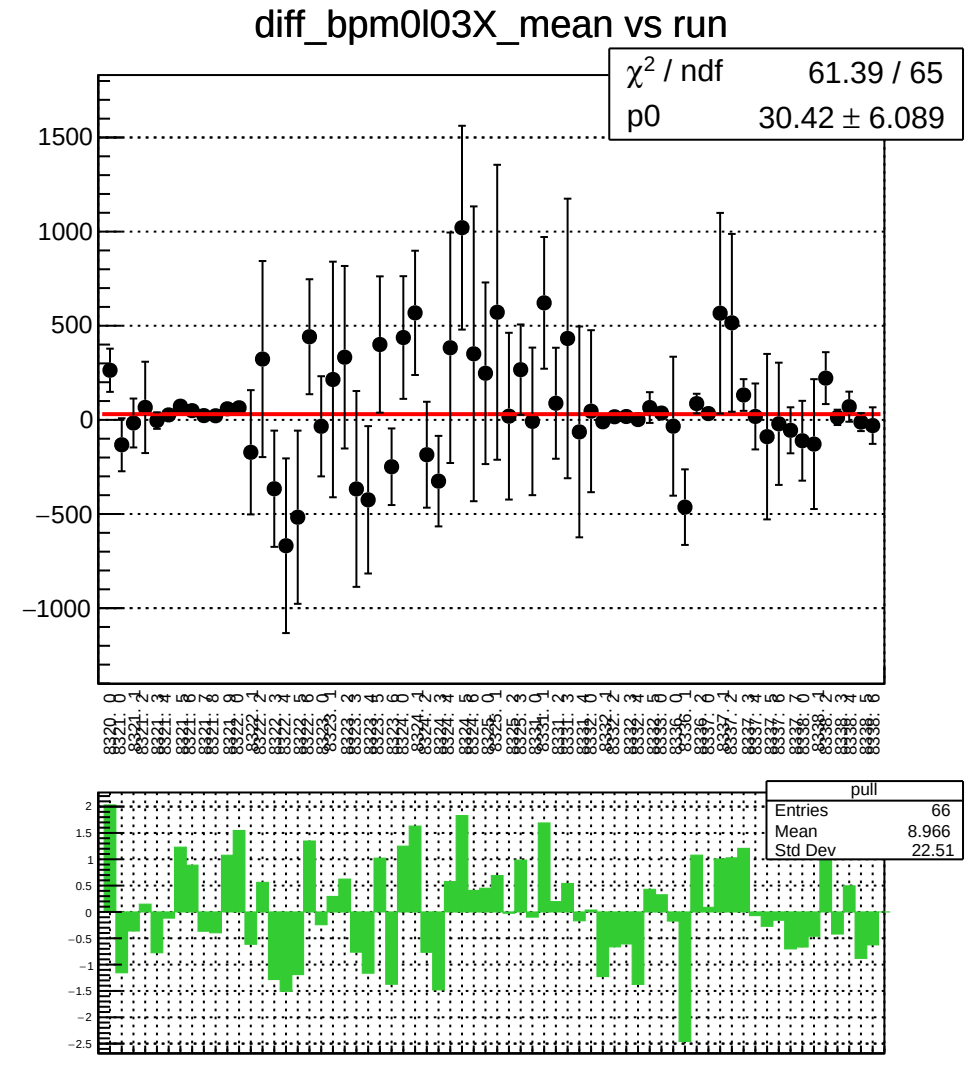

pull1D
Entries 66
Mean −0.01856
Std Dev 1.224
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

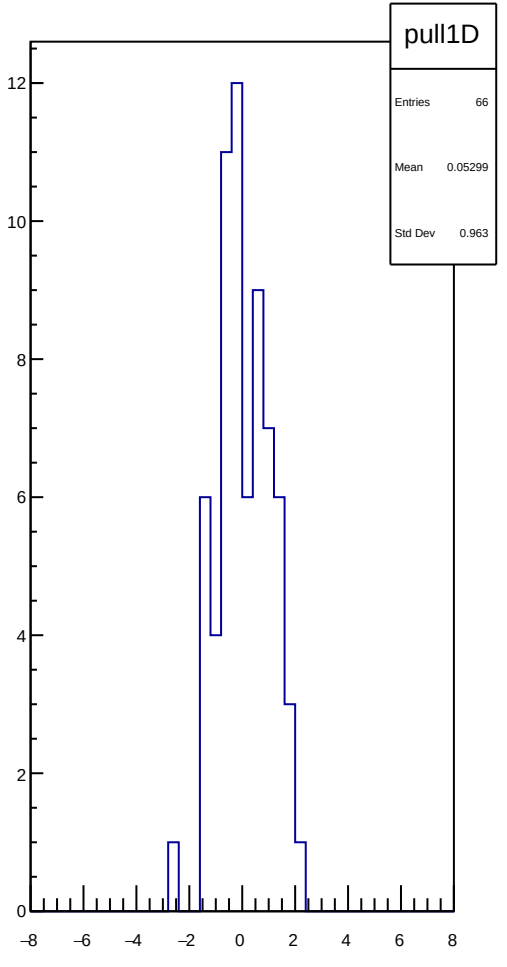

diff_bpm0l02X_rms vs run
χ² / ndf 385.7 / 65
p0 9878 ± 8.693
10400
10200
10000
9800
9600

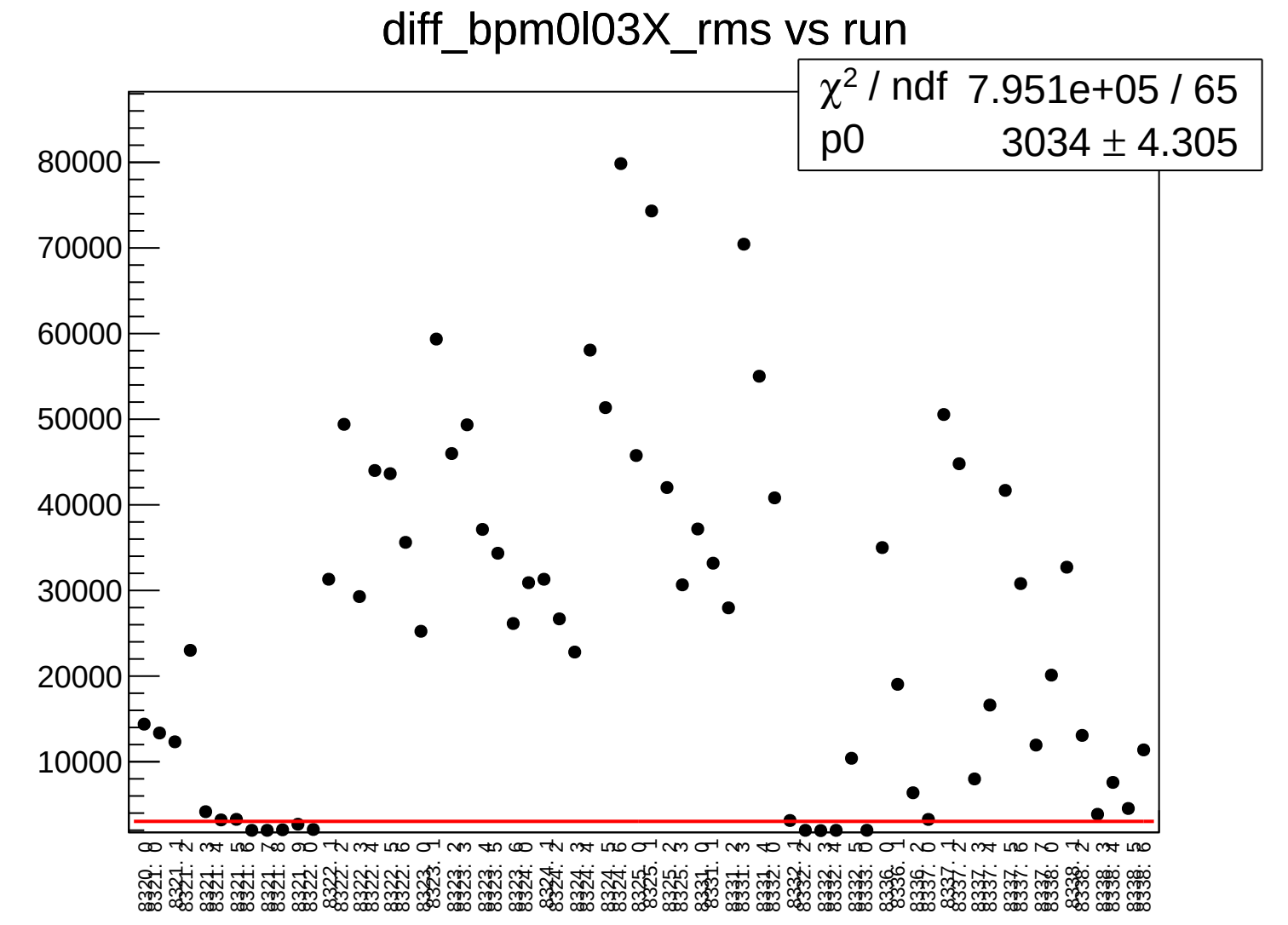

diff_bpm0l02Y_mean vs run
χ^2 / ndf 65.1 / 65
p0 144.8 ± 6.072
pull
Entries 66
Mean 261.9
Std Dev 227.8

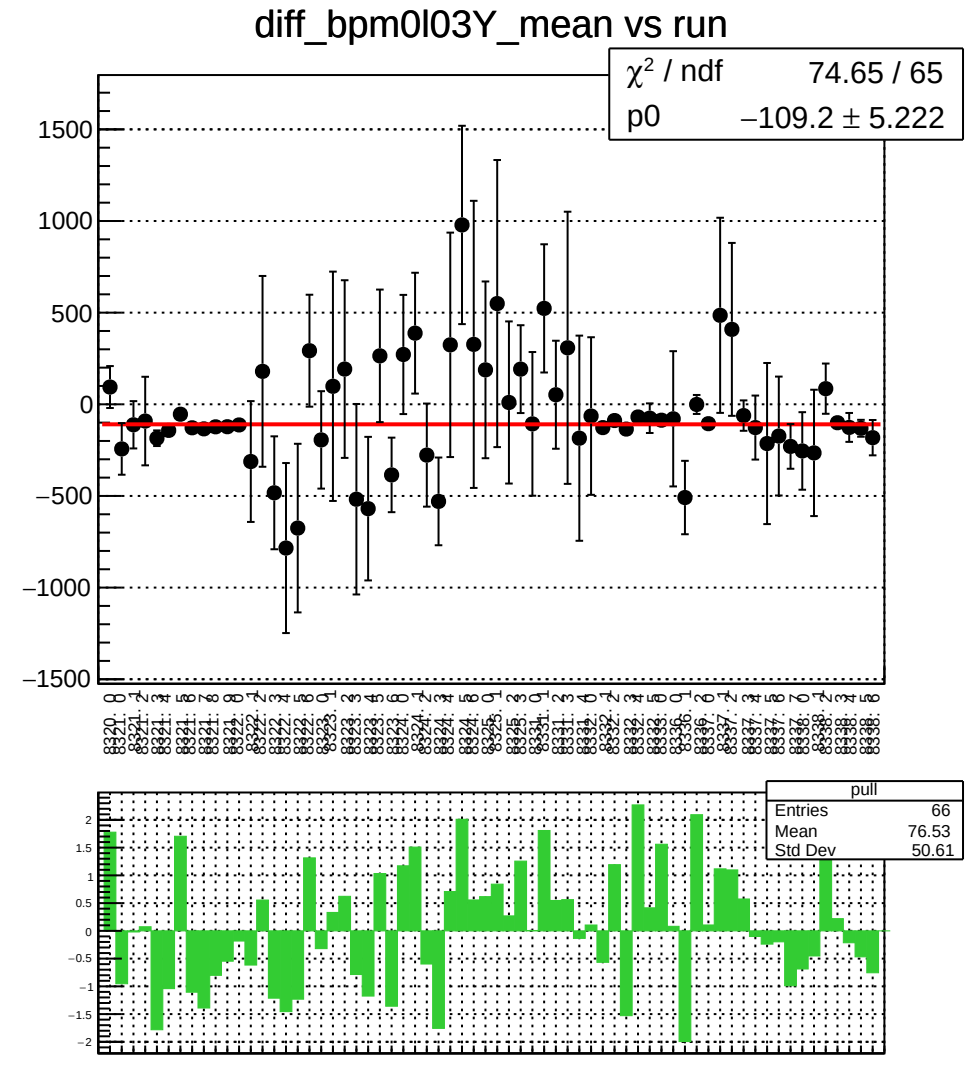

pull1D
Entries 66
Mean 0.00839
Std Dev 0.9932

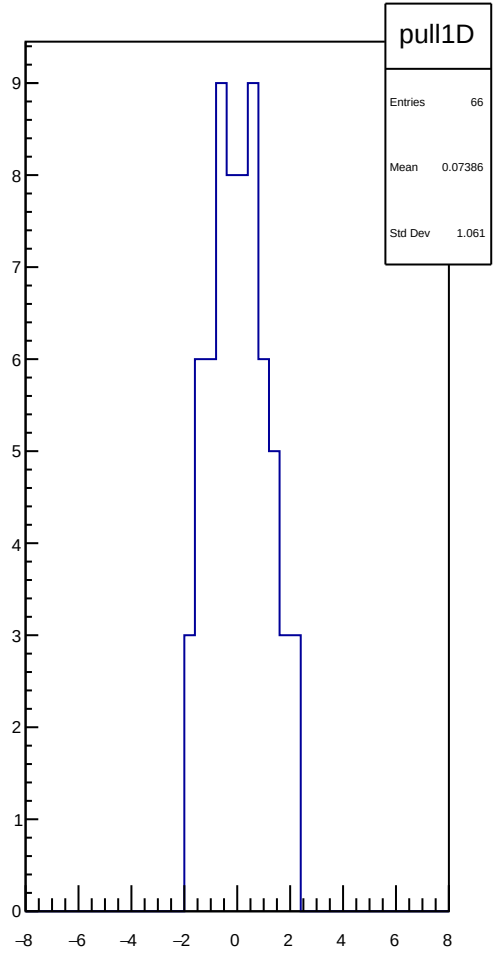

diff_bpm0l02Y_rms vs run
χ² / ndf 1.588e+04 / 65
p0 4850 ± 4.294
6500
6000
5500
5000
4500
4000
3500

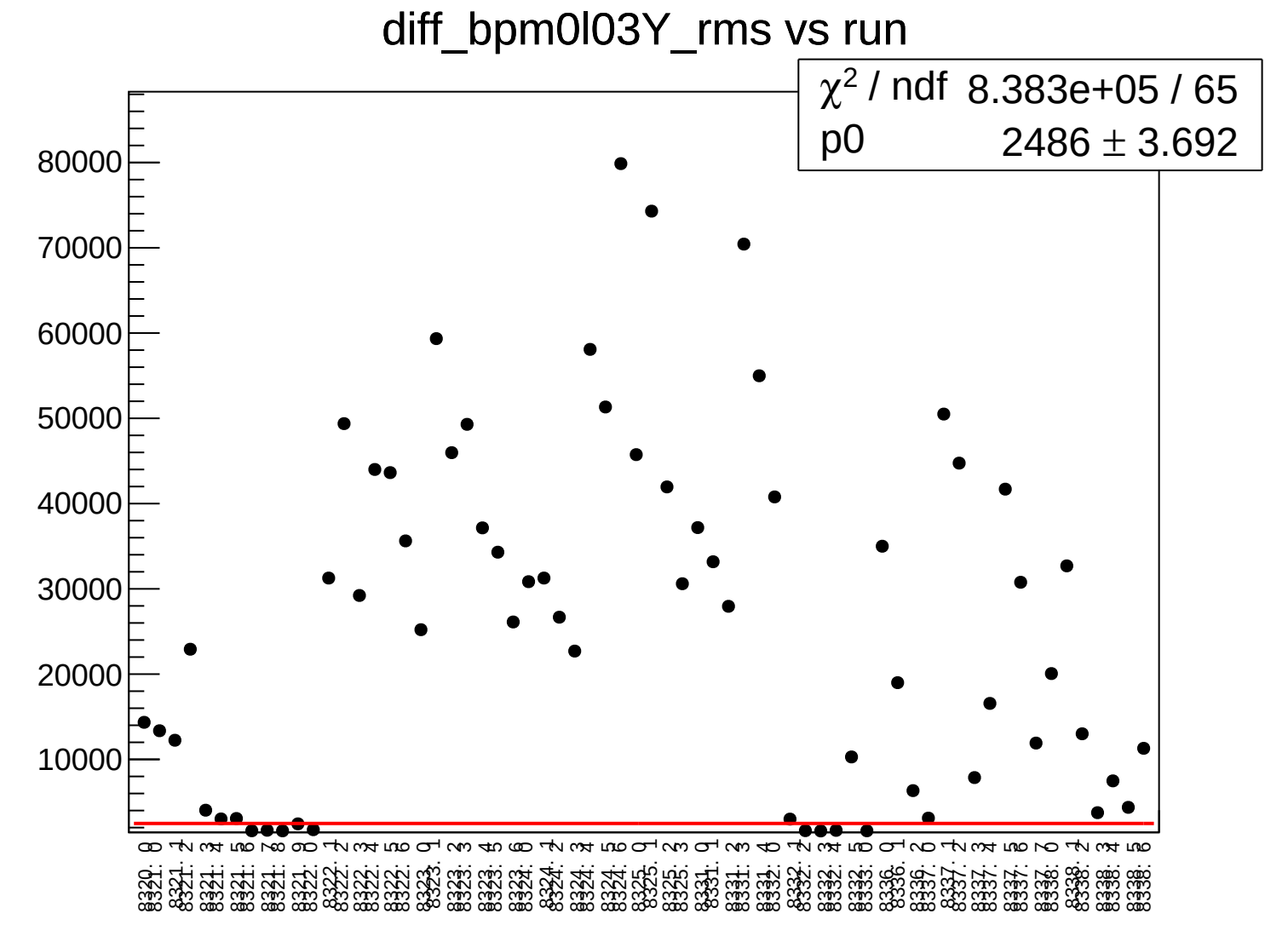

diff_bpm0l03X_mean vs run
χ^2 / ndf 61.39 / 65
p0 30.42 ± 6.089
pull
Entries 66
Mean 8.966
Std Dev 22.51

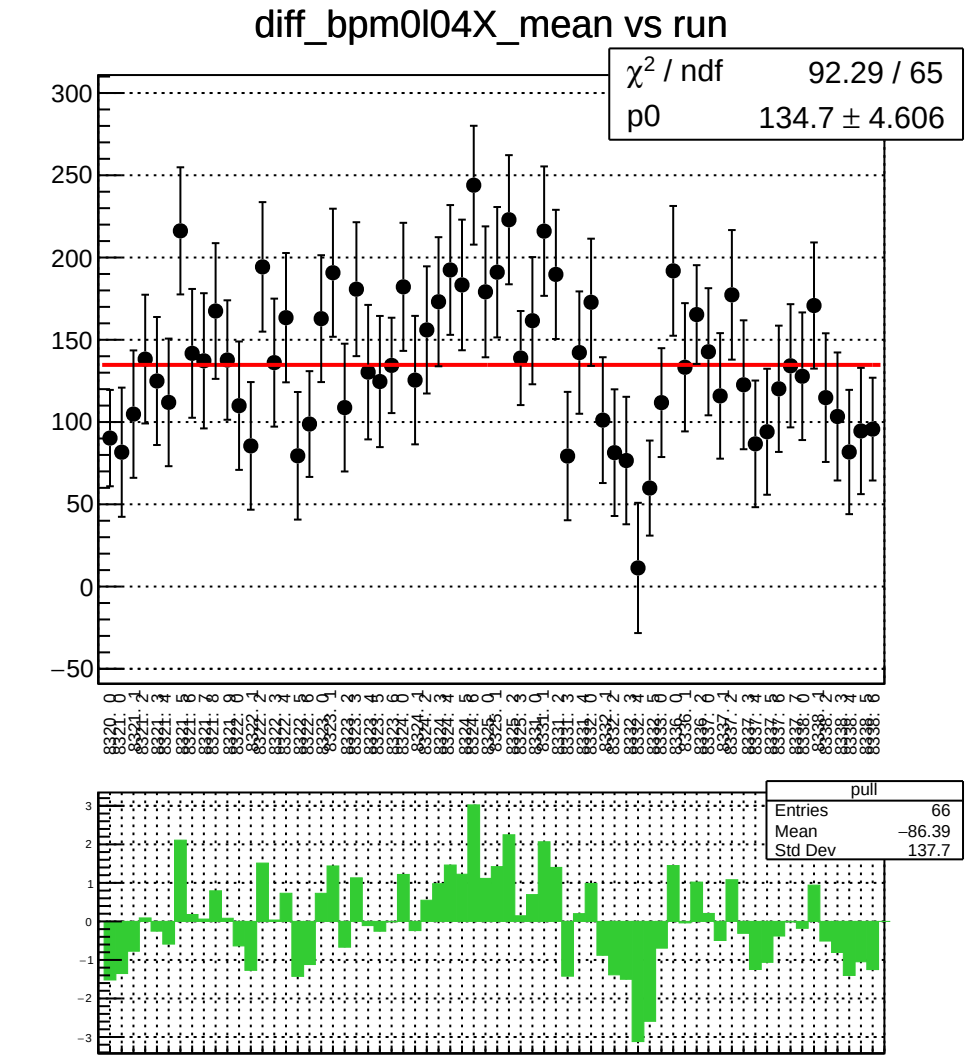

pull1D
Entries 66
Mean 0.05299
Std Dev 0.963

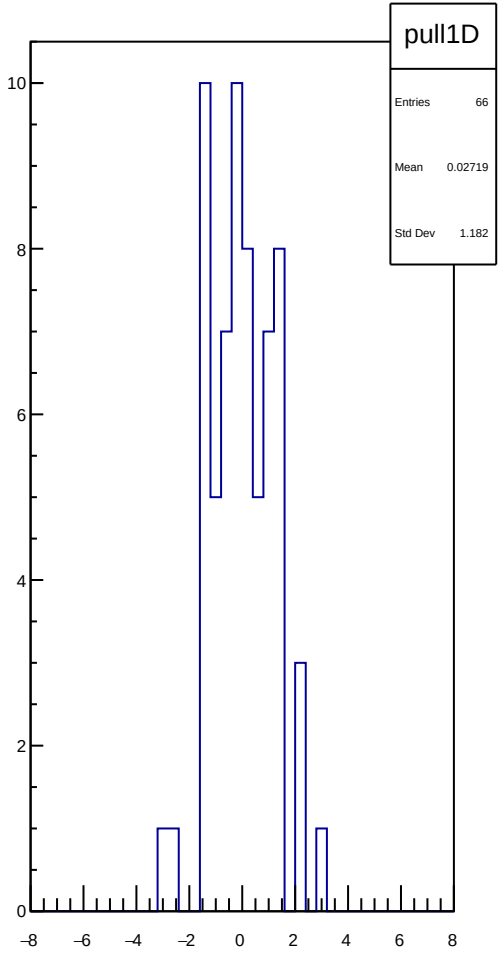

diff_bpm0l03X_rms vs run
χ² / ndf 7.951e+05 / 65
p0 3034 ± 4.305
80000
70000
60000
50000
40000
30000
20000
10000

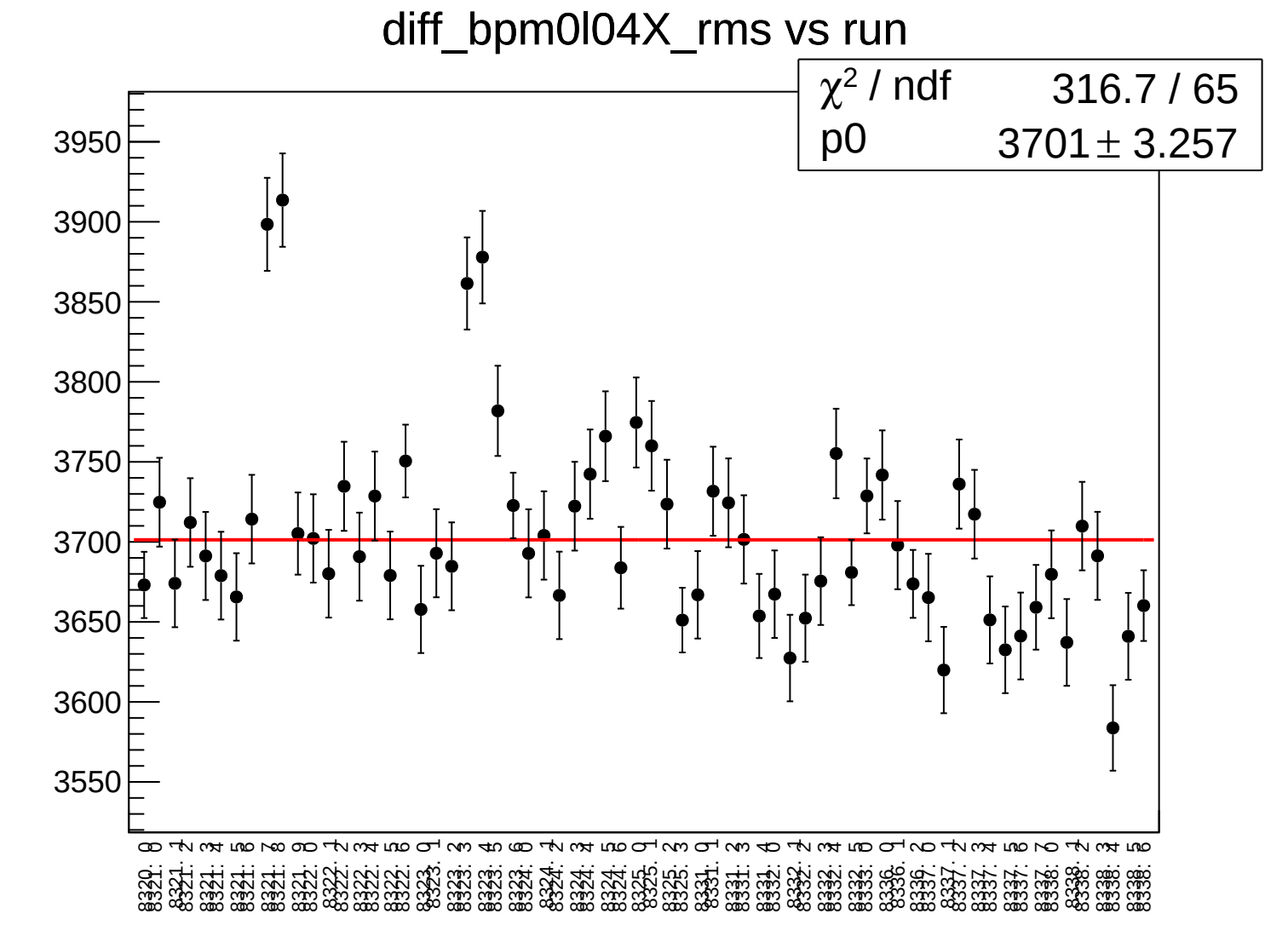

diff_bpm0l03Y_mean vs run
χ² / ndf 74.65 / 65
p0 −109.2 ± 5.222
pull
Entries 66
Mean 76.53
Std Dev 50.61

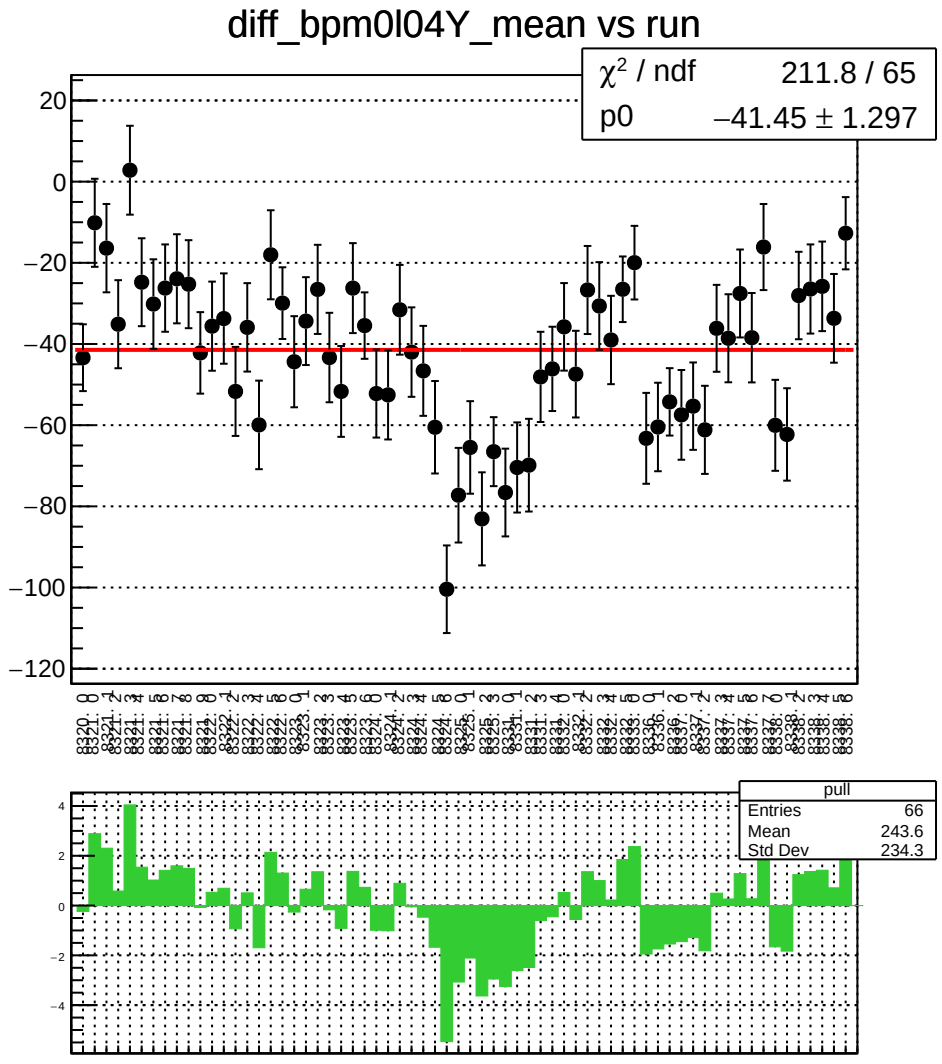

pull1D
Entries 66
Mean 0.07386
Std Dev 1.061

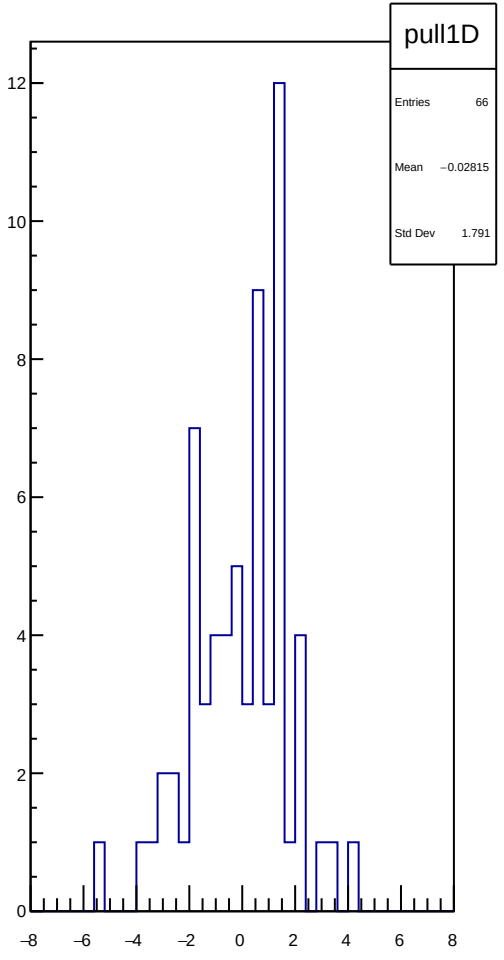

diff_bpm0l03Y_rms vs run
χ² / ndf 8.383e+05 / 65
p0 2486 ± 3.692
80000
70000
60000
50000
40000
30000
20000
10000

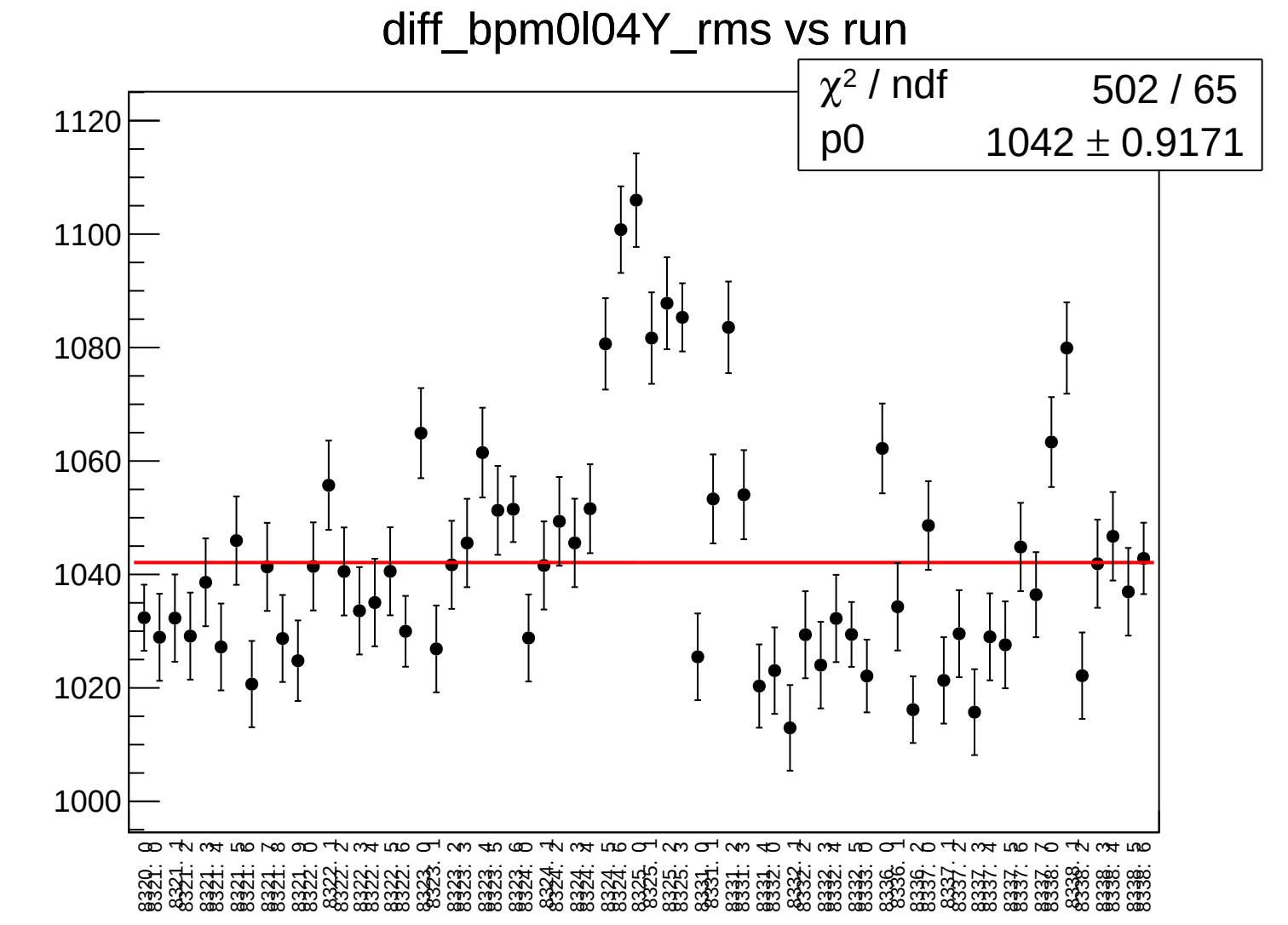

diff_bpm0l04X_mean vs run
χ² / ndf 92.29 / 65
p0 134.7 ± 4.606
pull
Entries 66
Mean −86.39
Std Dev 137.7

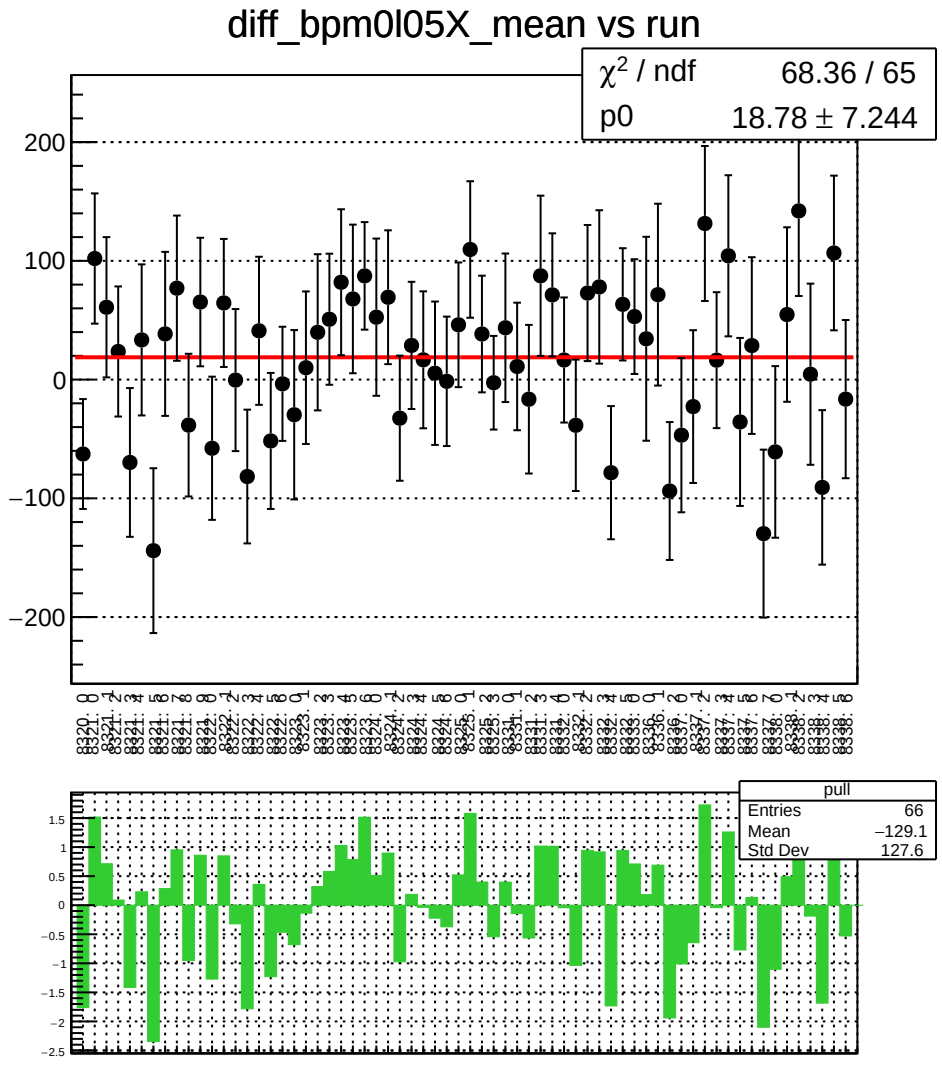

pull1D
Entries 66
Mean 0.02719
Std Dev 1.182

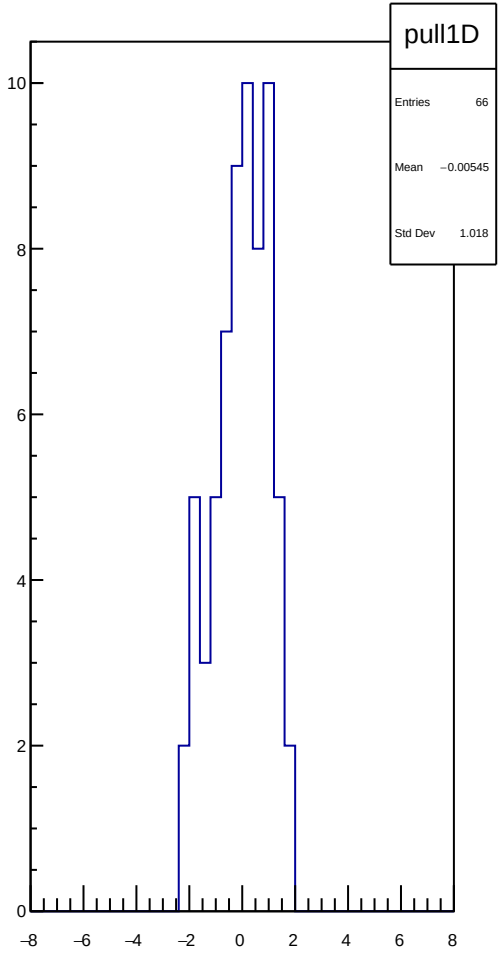

diff_bpm0l04X_rms vs run
χ² / ndf 316.7 / 65
p0 3701 ± 3.257
3950
3900
3850
3800
3750
3700
3650
3600
3550

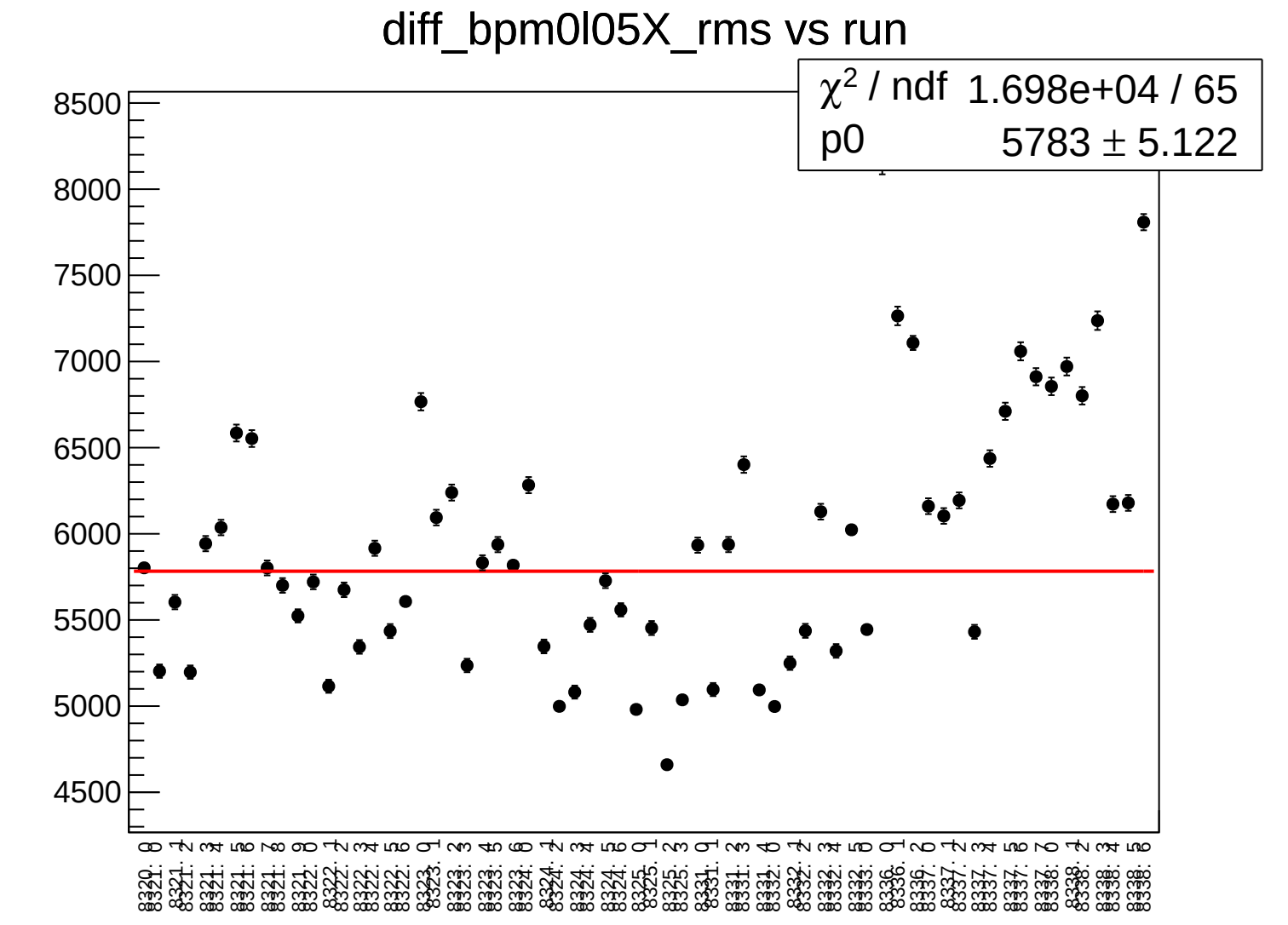

diff_bpm0l04Y_mean vs run
χ² / ndf 211.8 / 65
p0 −41.45 ± 1.297
pull
Entries 66
Mean 243.6
Std Dev 234.3

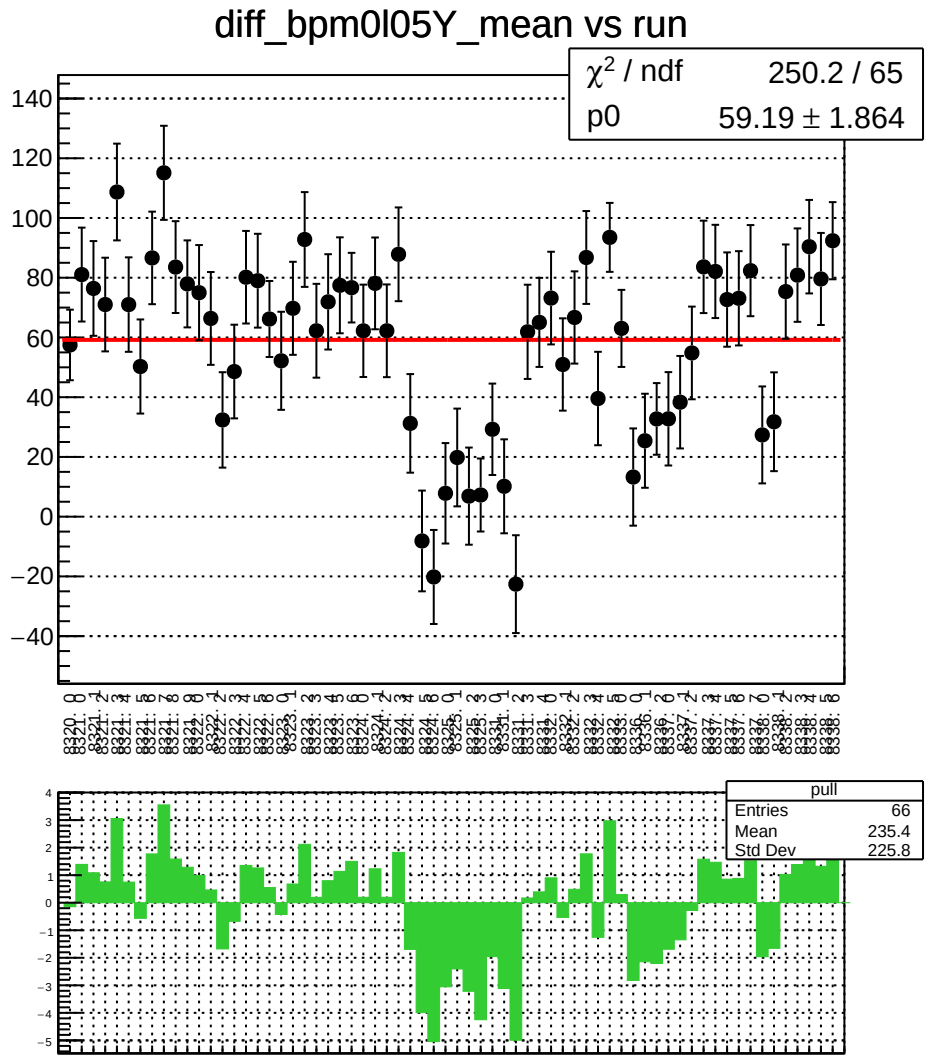

pull1D
Entries 66
Mean −0.02815
Std Dev 1.791

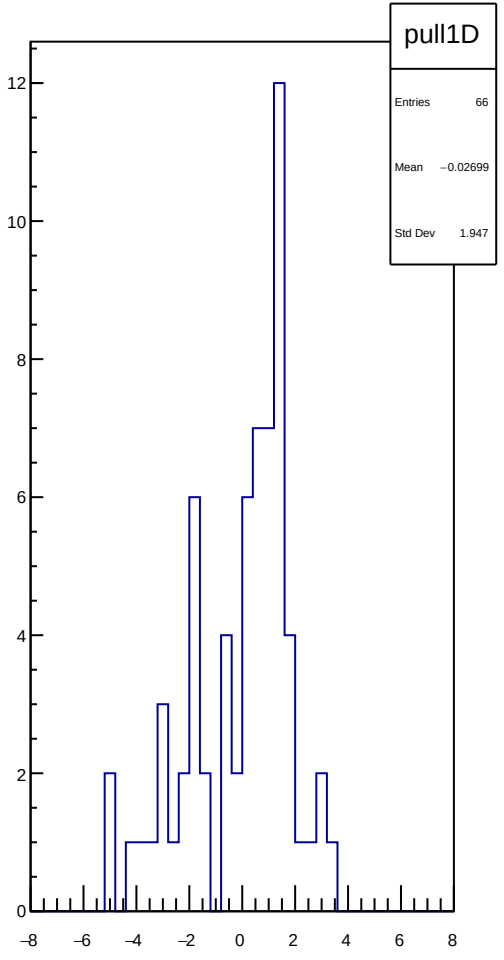

diff_bpm0l04Y_rms vs run
χ² / ndf 502 / 65
p0 1042 ± 0.9171
1120
1100
1080
1060
1040
1020
1000

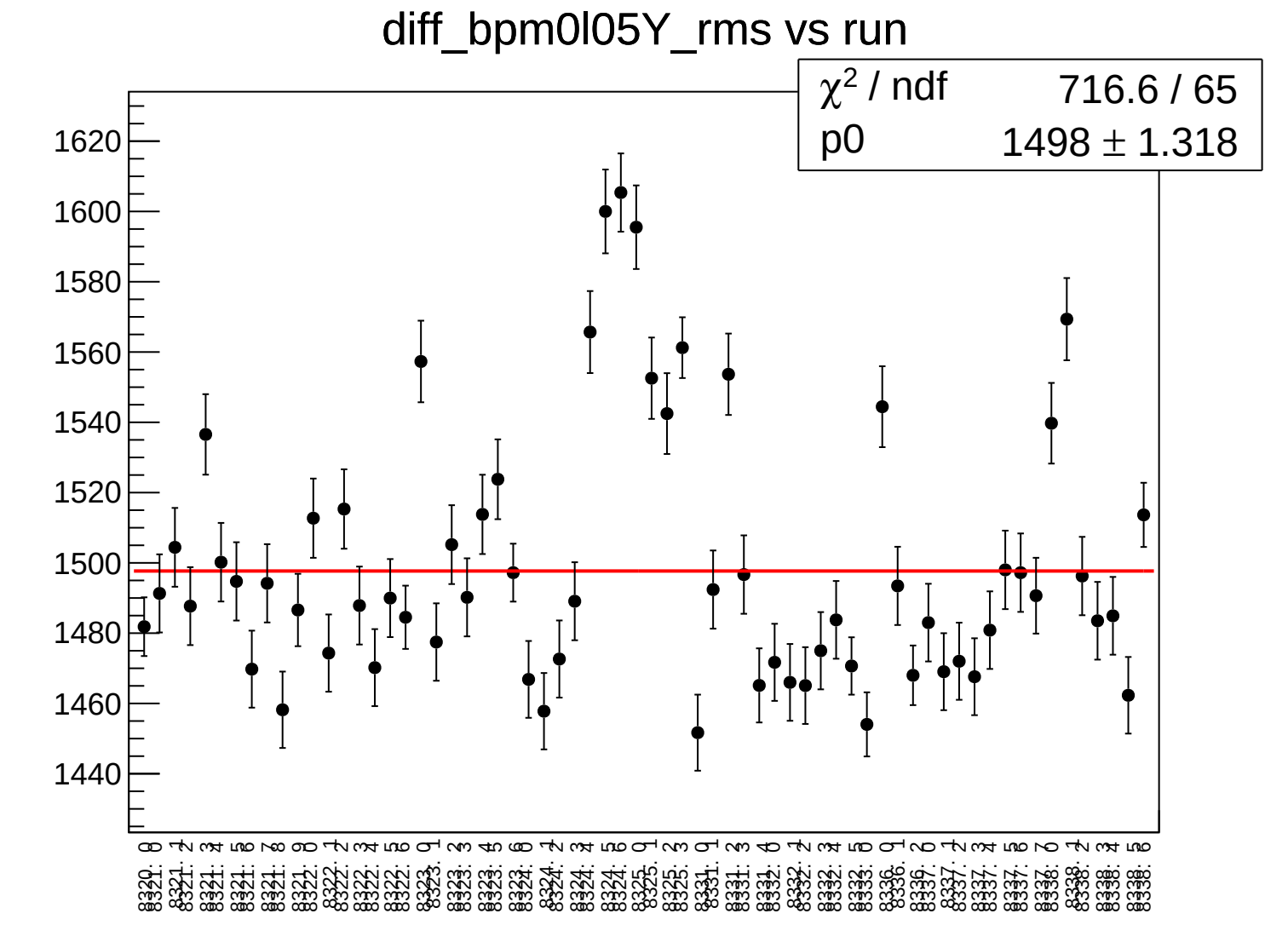

diff_bpm0l05X_mean vs run
χ² / ndf 68.36 / 65
p0 18.78 ± 7.244
pull
Entries 66
Mean −129.1
Std Dev 127.6

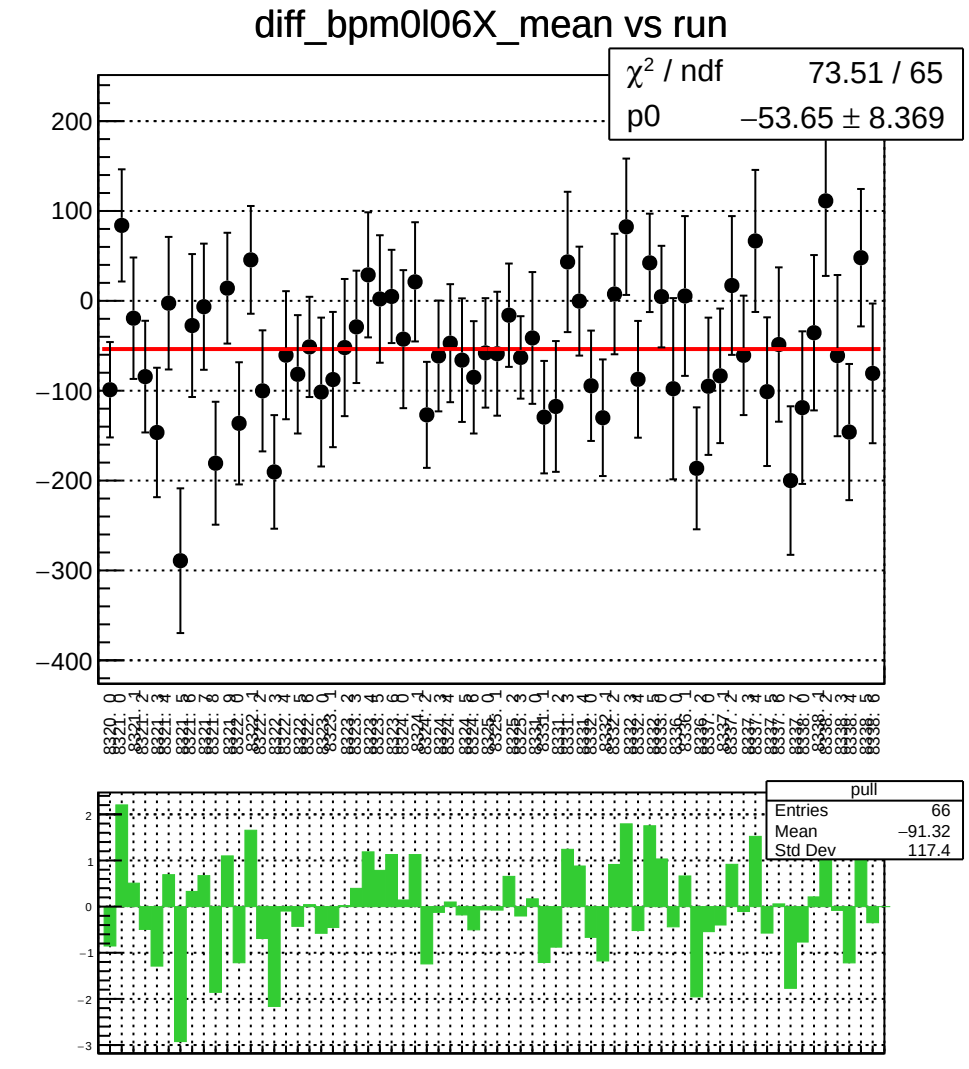

pull1D
Entries 66
Mean −0.00545
Std Dev 1.018

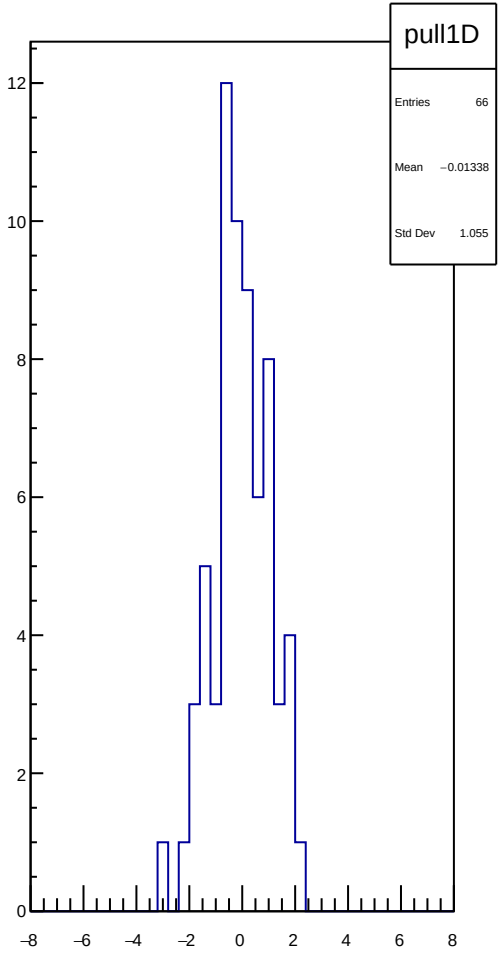

diff_bpm0l05X_rms vs run
χ² / ndf 1.698e+04 / 65
p0 5783 ± 5.122
8500
8000
7500
7000
6500
6000
5500
5000
4500

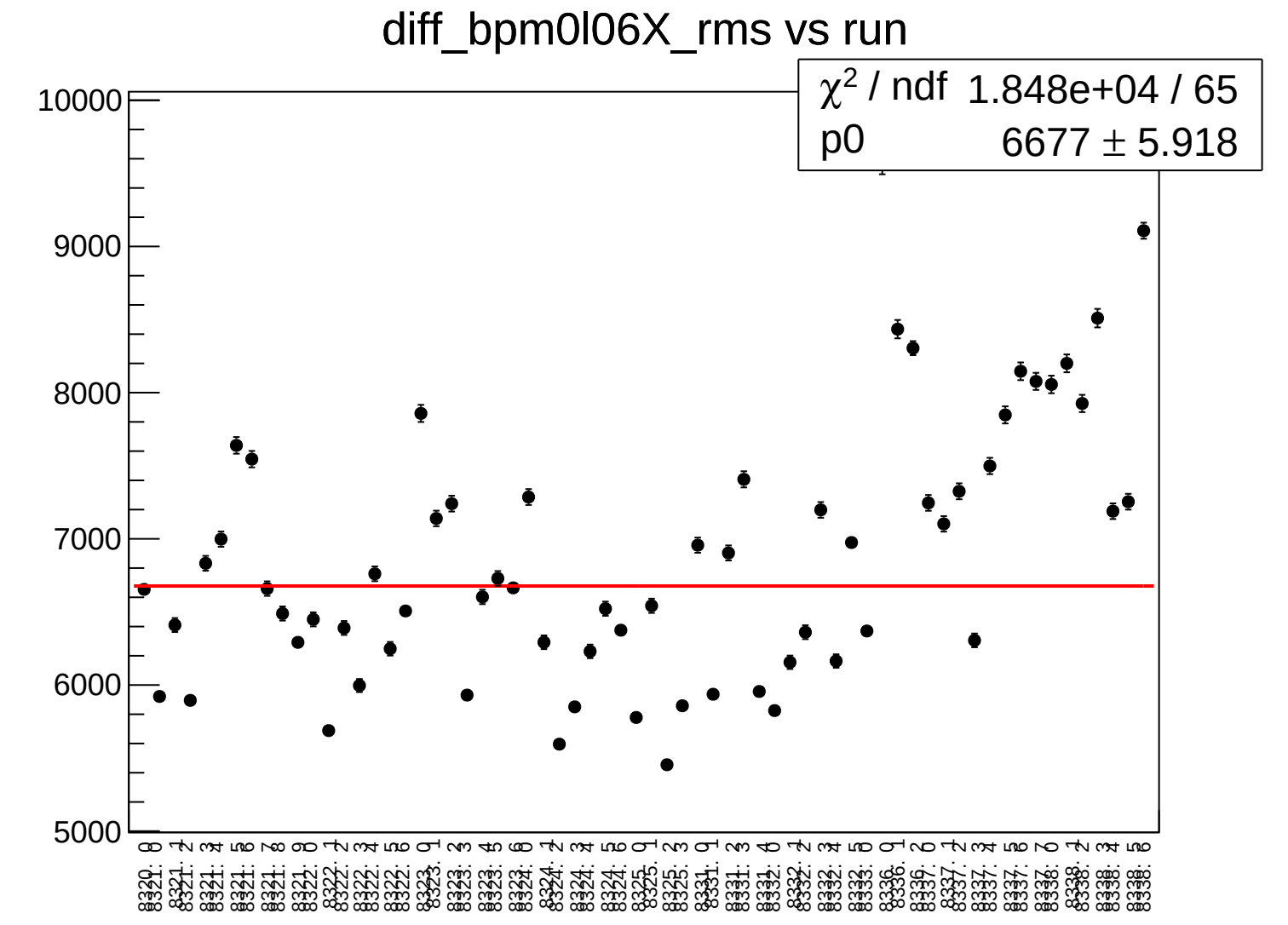

diff_bpm0l05Y_mean vs run
χ² / ndf 250.2 / 65
p0 59.19 ± 1.864
pull
Entries 66
Mean 235.4
Std Dev 225.8

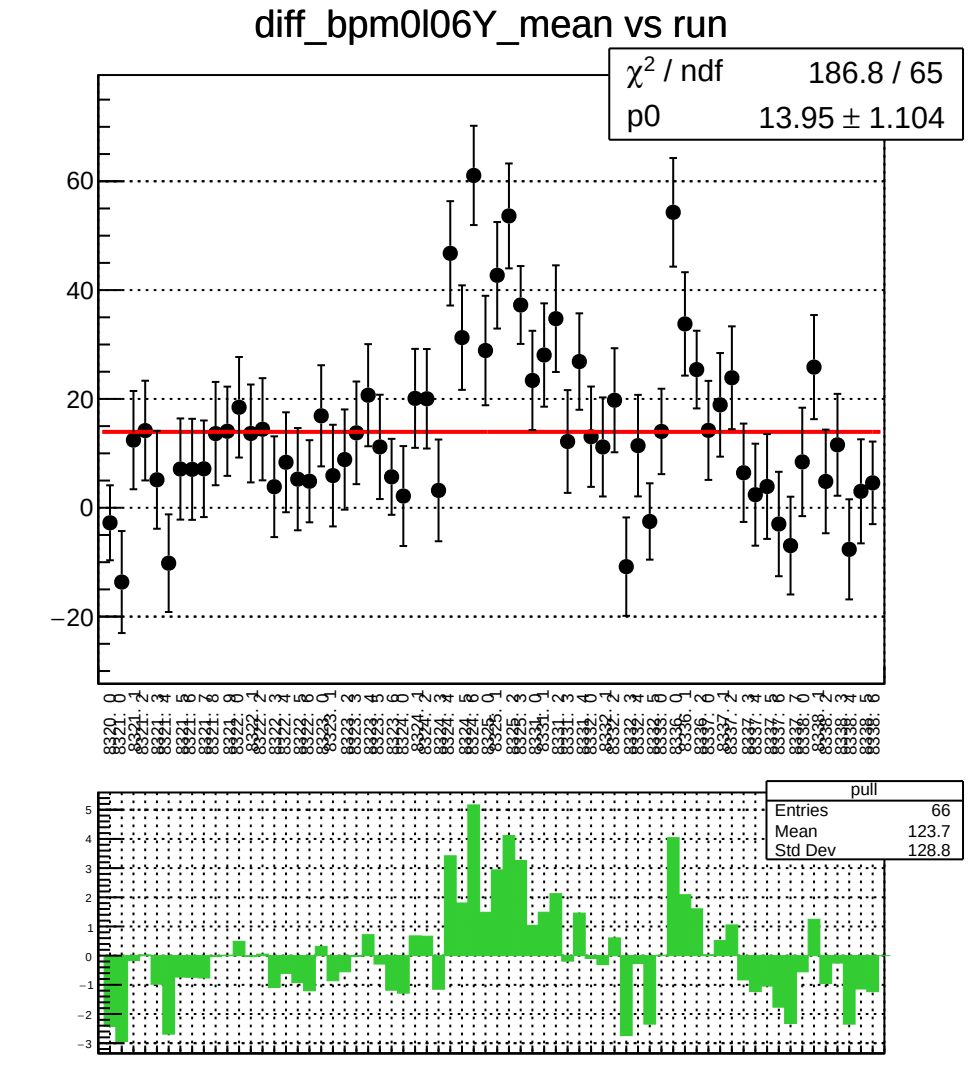

pull1D
Entries 66
Mean −0.02699
Std Dev 1.947

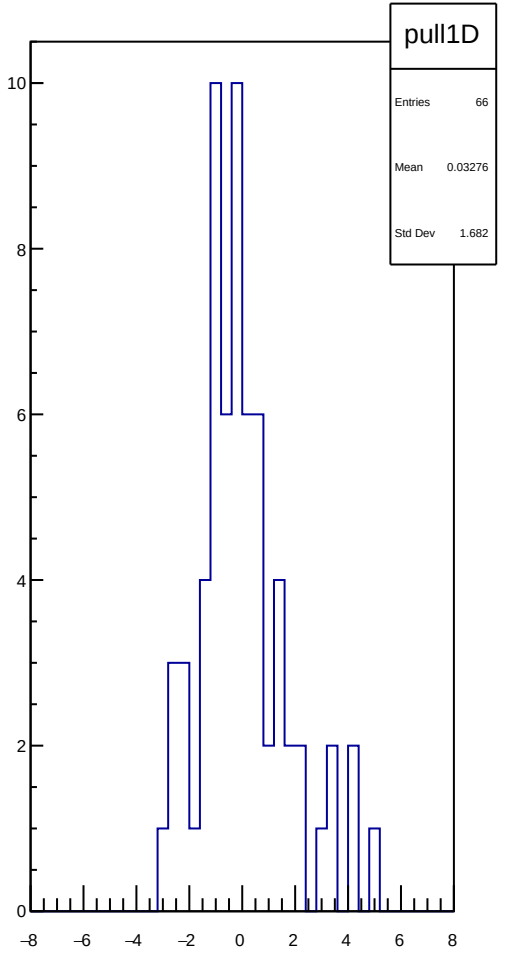

diff_bpm0l05Y_rms vs run
χ² / ndf 716.6 / 65
p0 1498 ± 1.318
1620
1600
1580
1560
1540
1520
1500
1480
1460
1440

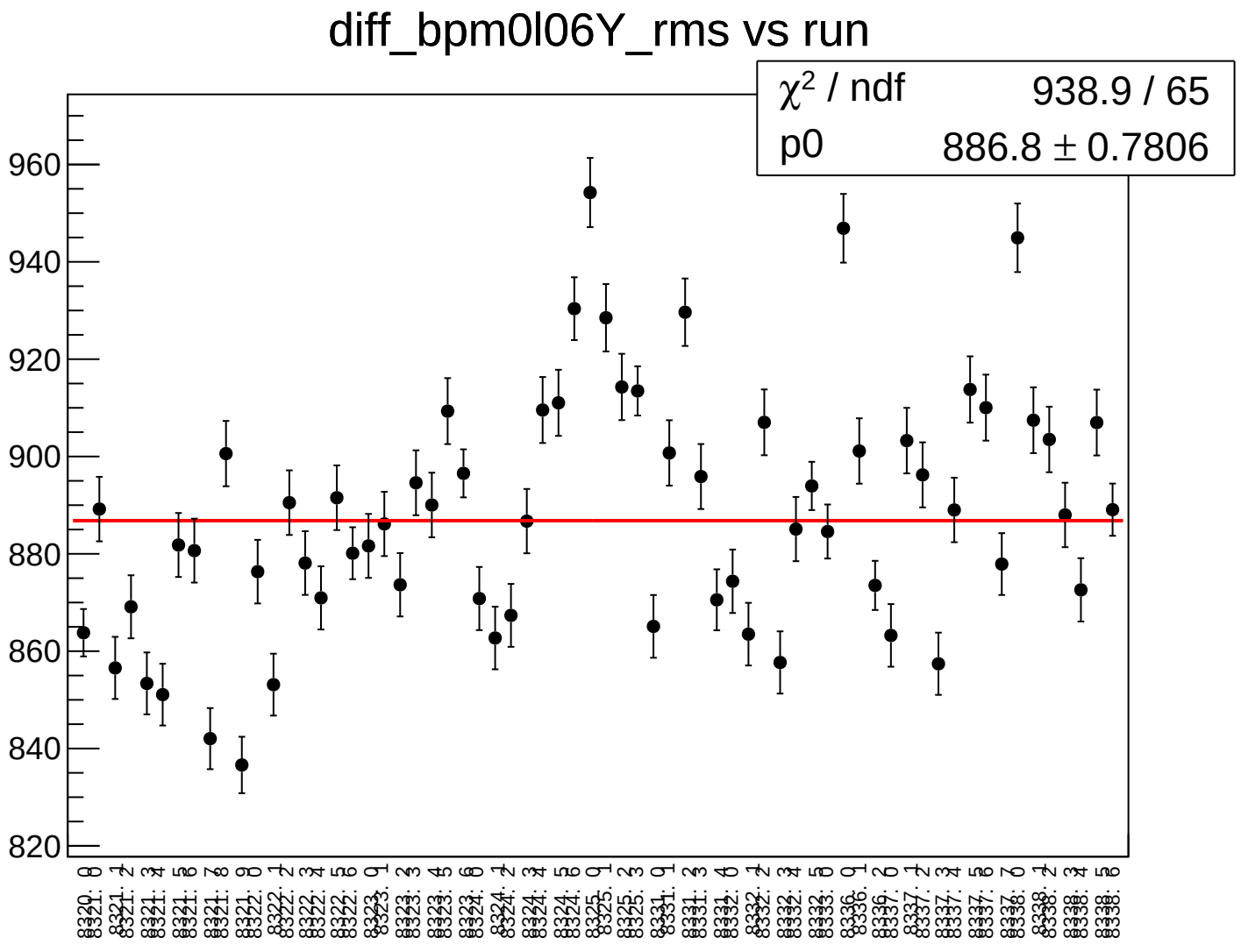

diff_bpm0l06X_mean vs run
χ² / ndf 73.51 / 65
p0 −53.65 ± 8.369
pull
Entries 66
Mean −91.32
Std Dev 117.4

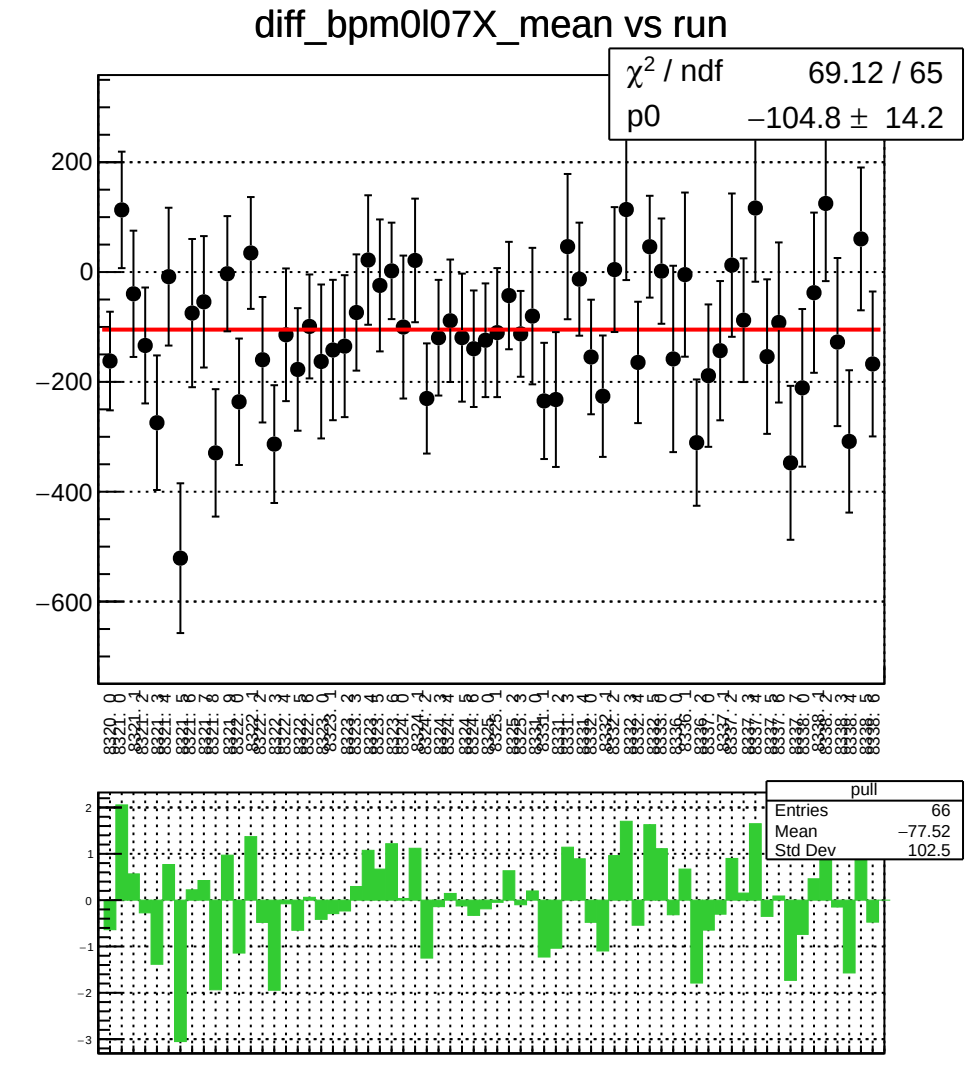

pull1D
Entries 66
Mean −0.01338
Std Dev 1.055

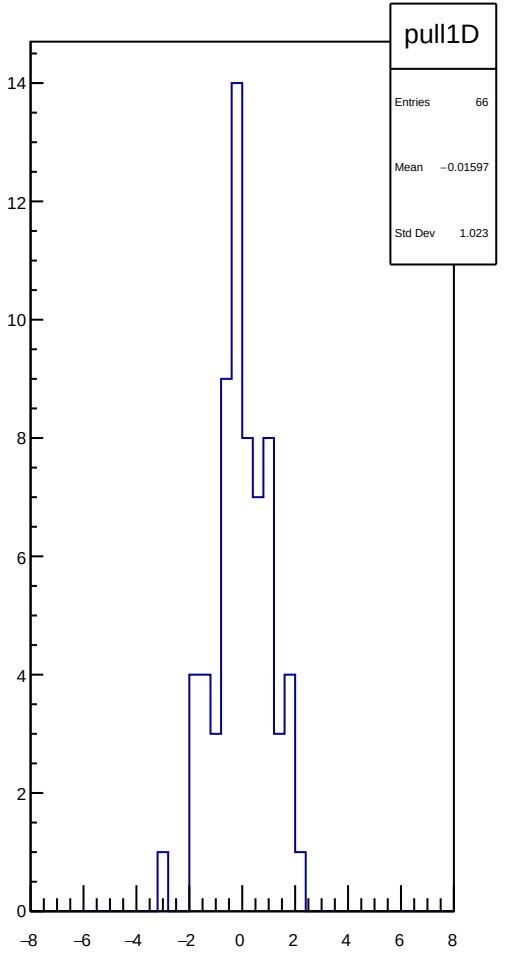

diff_bpm0l06X_rms vs run
χ² / ndf 1.848e+04 / 65
p0 6677 ± 5.918
10000
9000
8000
7000
6000
5000

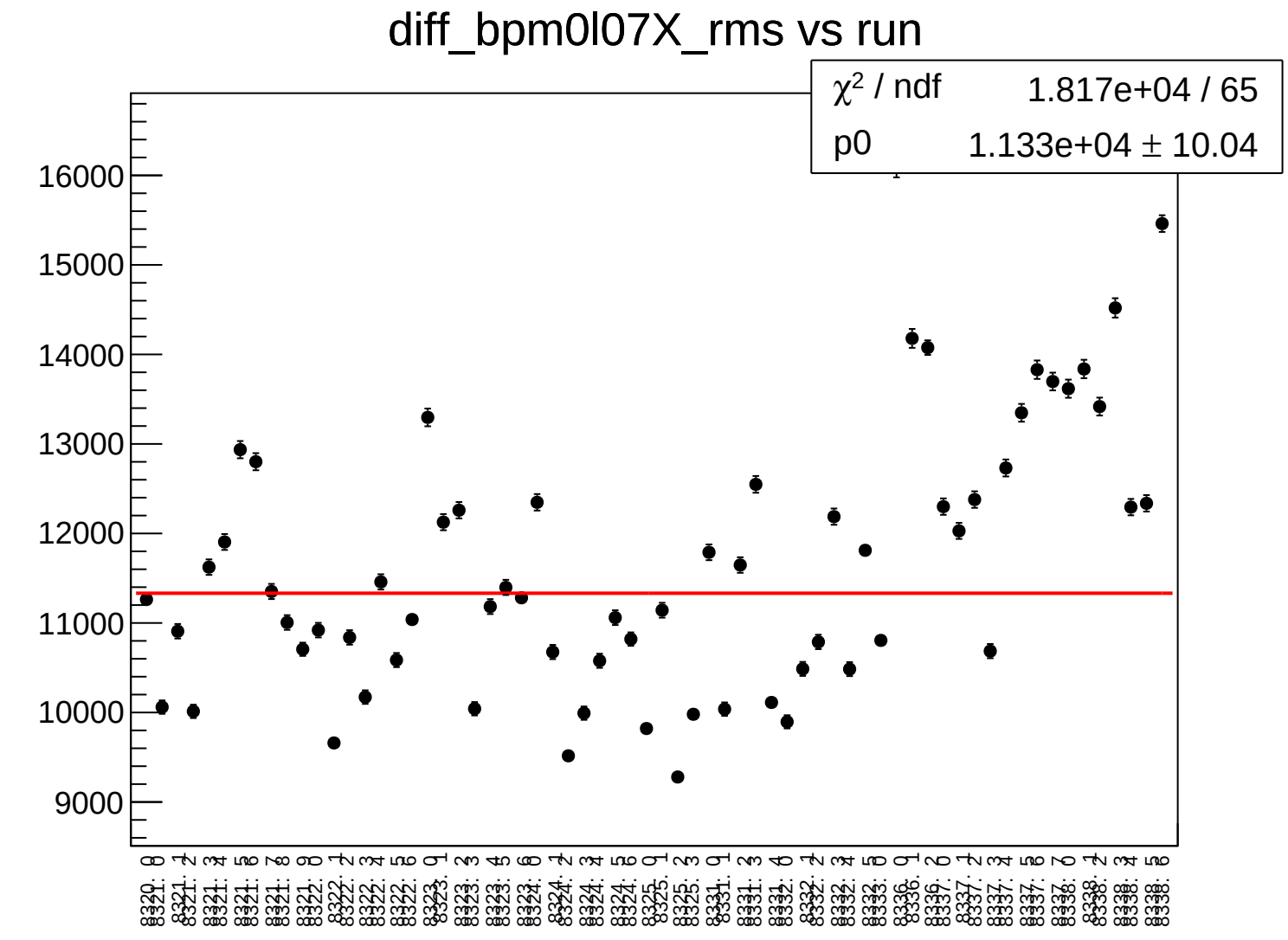

diff_bpm0l06Y_mean vs run
χ² / ndf 186.8 / 65
p0 13.95 ± 1.104
pull
Entries 66
Mean 123.7
Std Dev 128.8

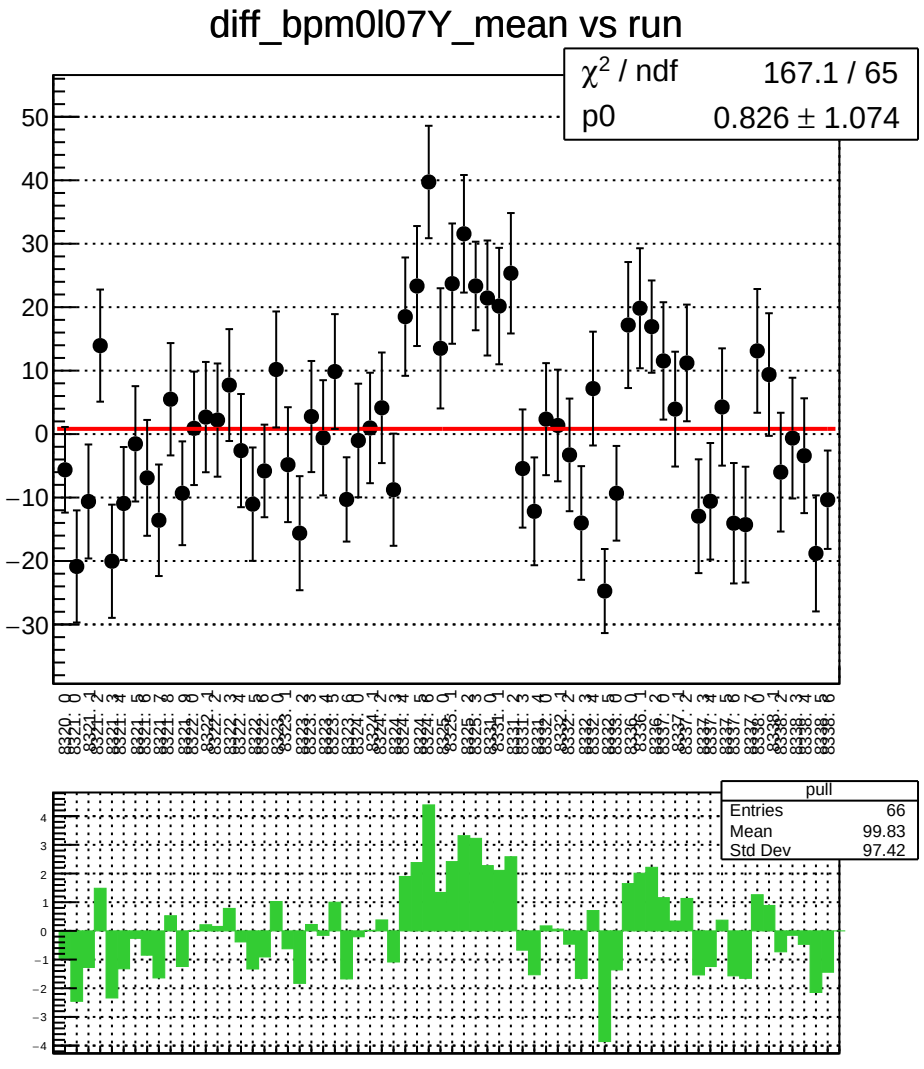

pull1D
Entries 66
Mean 0.03276
Std Dev 1.682

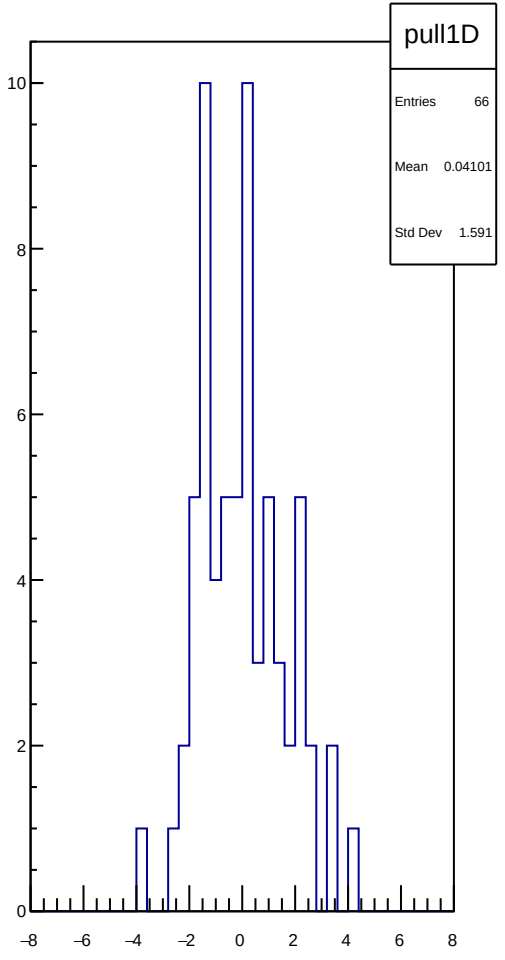

diff_bpm0l06Y_rms vs run
χ² / ndf 938.9 / 65
p0 886.8 ± 0.7806
960
940
920
900
880
860
840
820

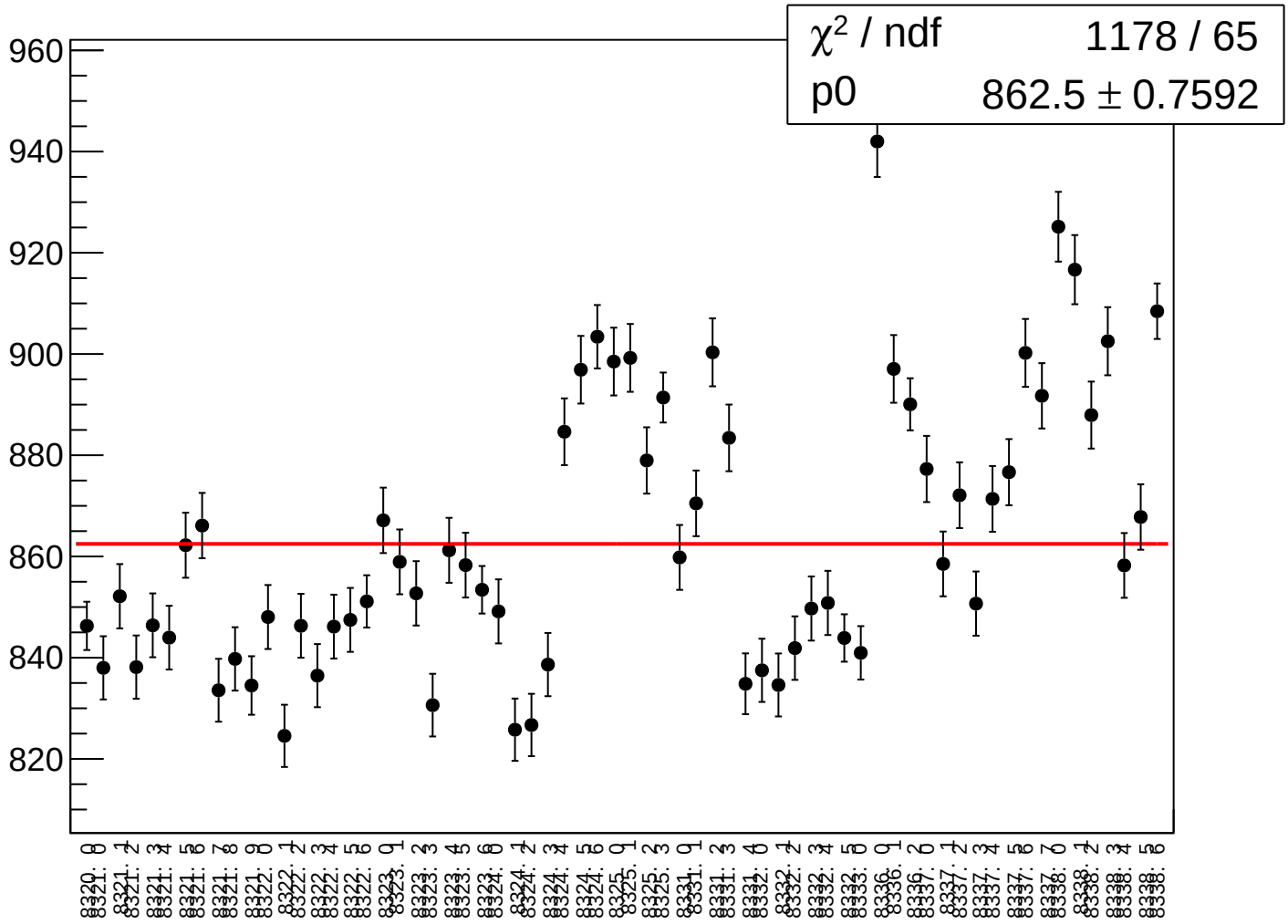

diff_bpm0l07X_mean vs run
χ² / ndf 69.12 / 65
p0 −104.8 ± 14.2
200
0
−200
−400
−600
pull
Entries 66
Mean −77.52
Std Dev 102.5
2
1
0
−1
−2
−3

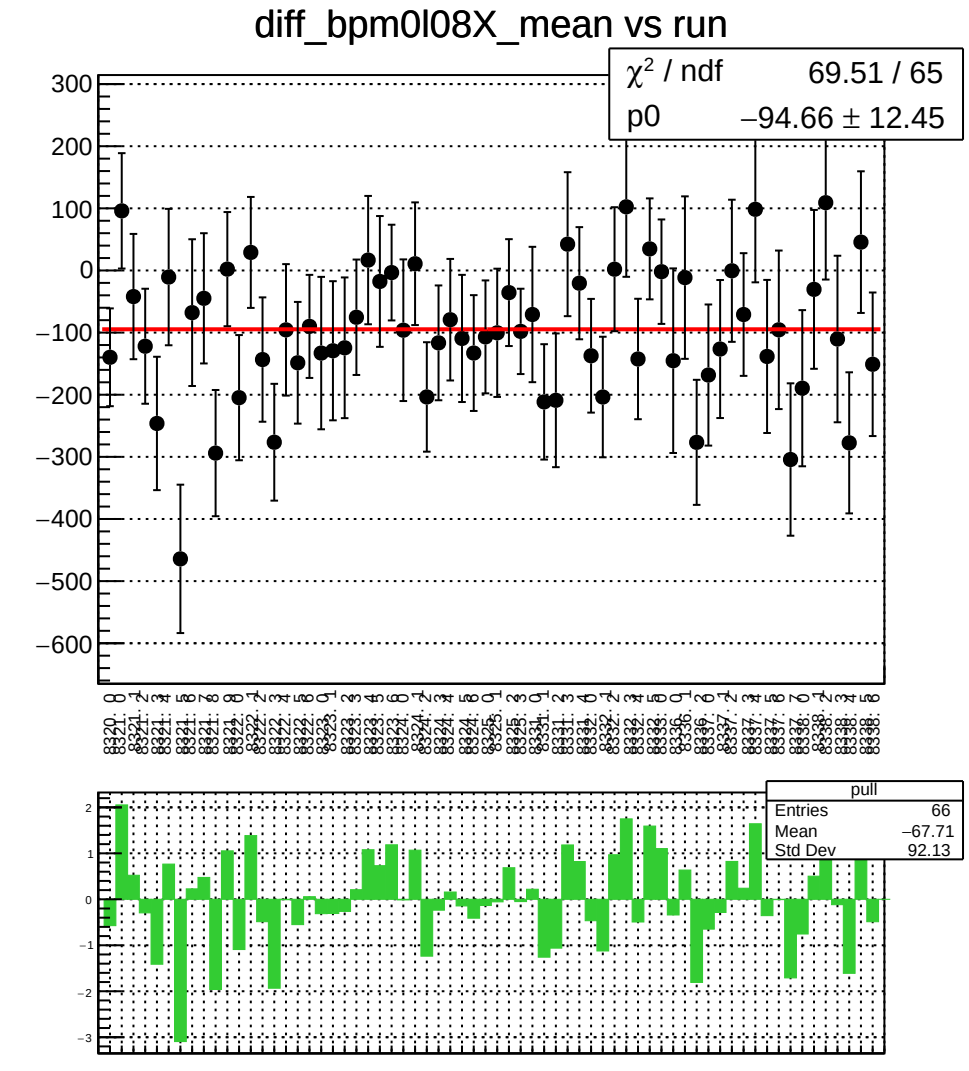

pull1D
Entries 66
Mean −0.01597
Std Dev 1.023
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

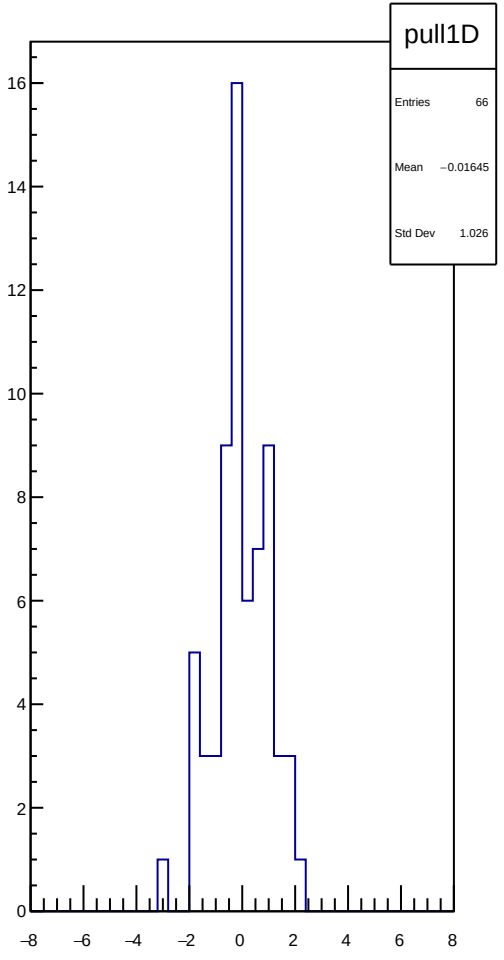

diff_bpm0l07X_rms vs run
χ² / ndf 1.817e+04 / 65
p0 1.133e+04 ± 10.04
16000
15000
14000
13000
12000
11000
10000
9000

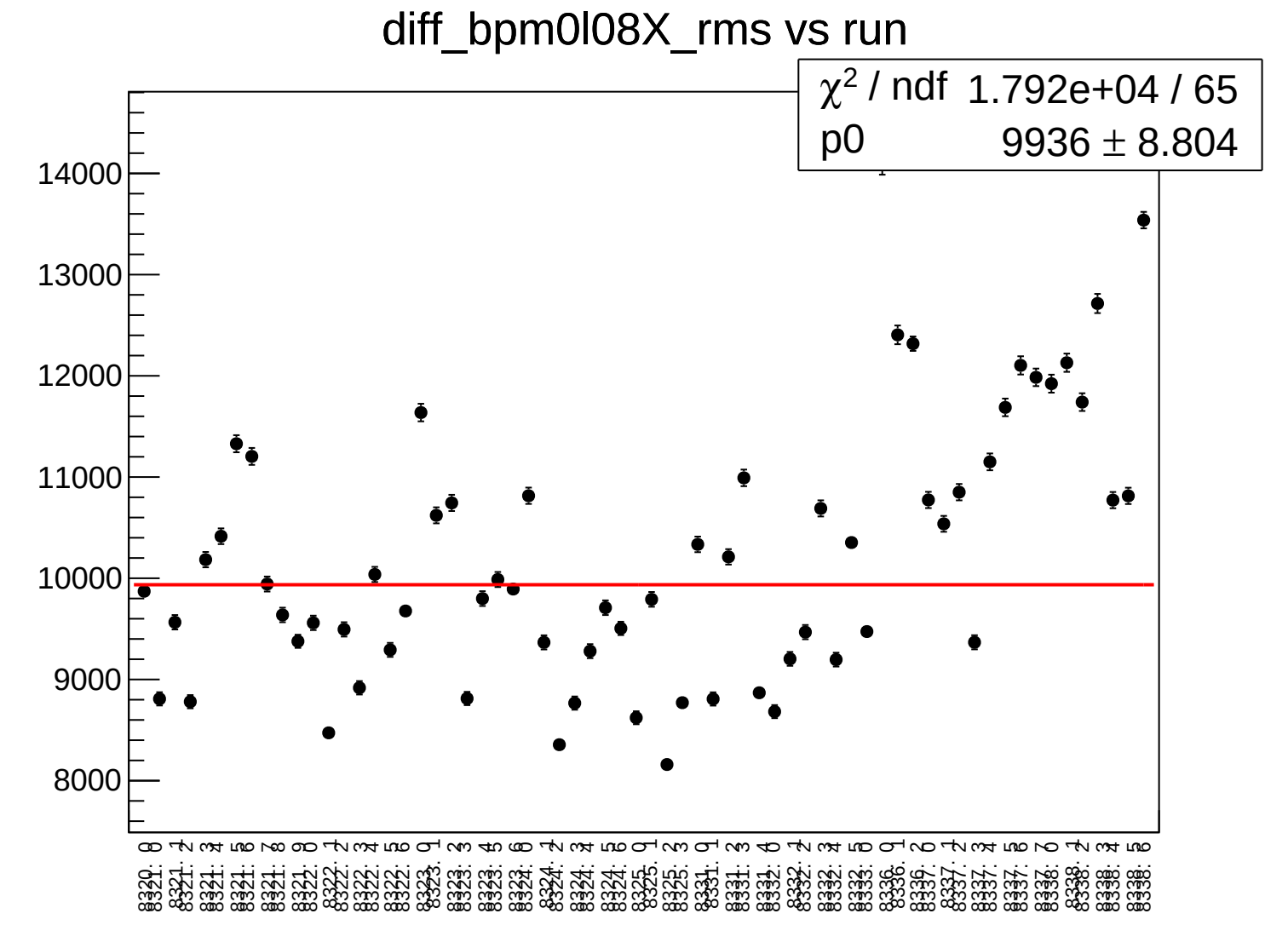

diff_bpm0l07Y_mean vs run
χ^2 / ndf 167.1 / 65
p0 0.826 ± 1.074
pull
Entries 66
Mean 99.83
Std Dev 97.42

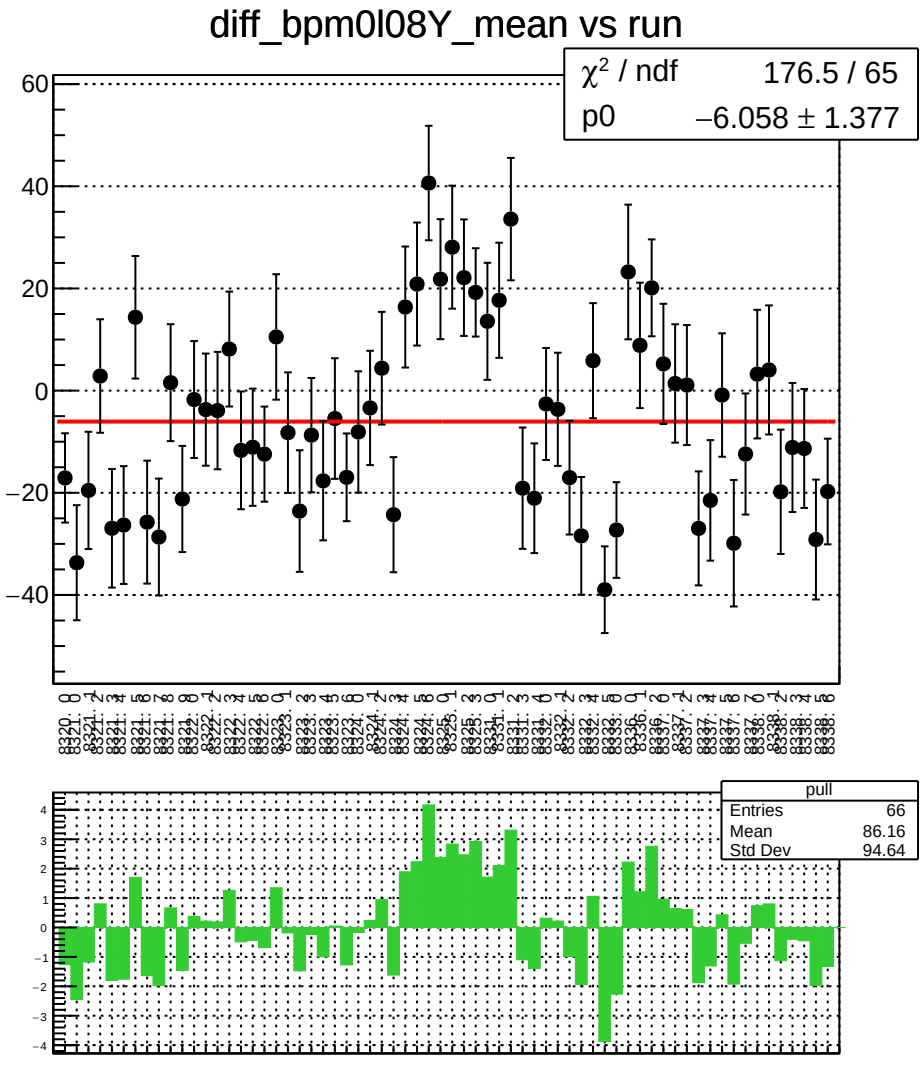

pull1D
Entries 66
Mean 0.04101
Std Dev 1.591

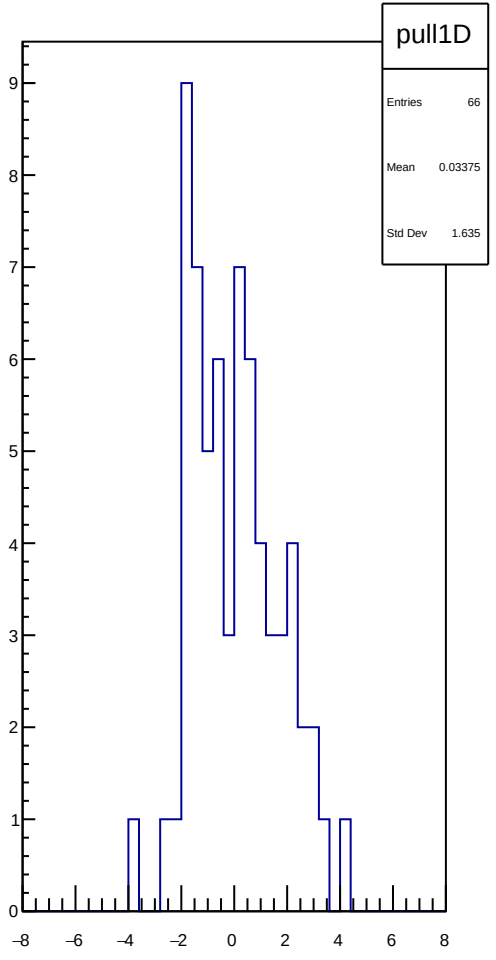

diff_bpm0l07Y_rms vs run
χ² / ndf 1178 / 65
p0 862.5 ± 0.7592
960
940
920
900
880
860
840
820

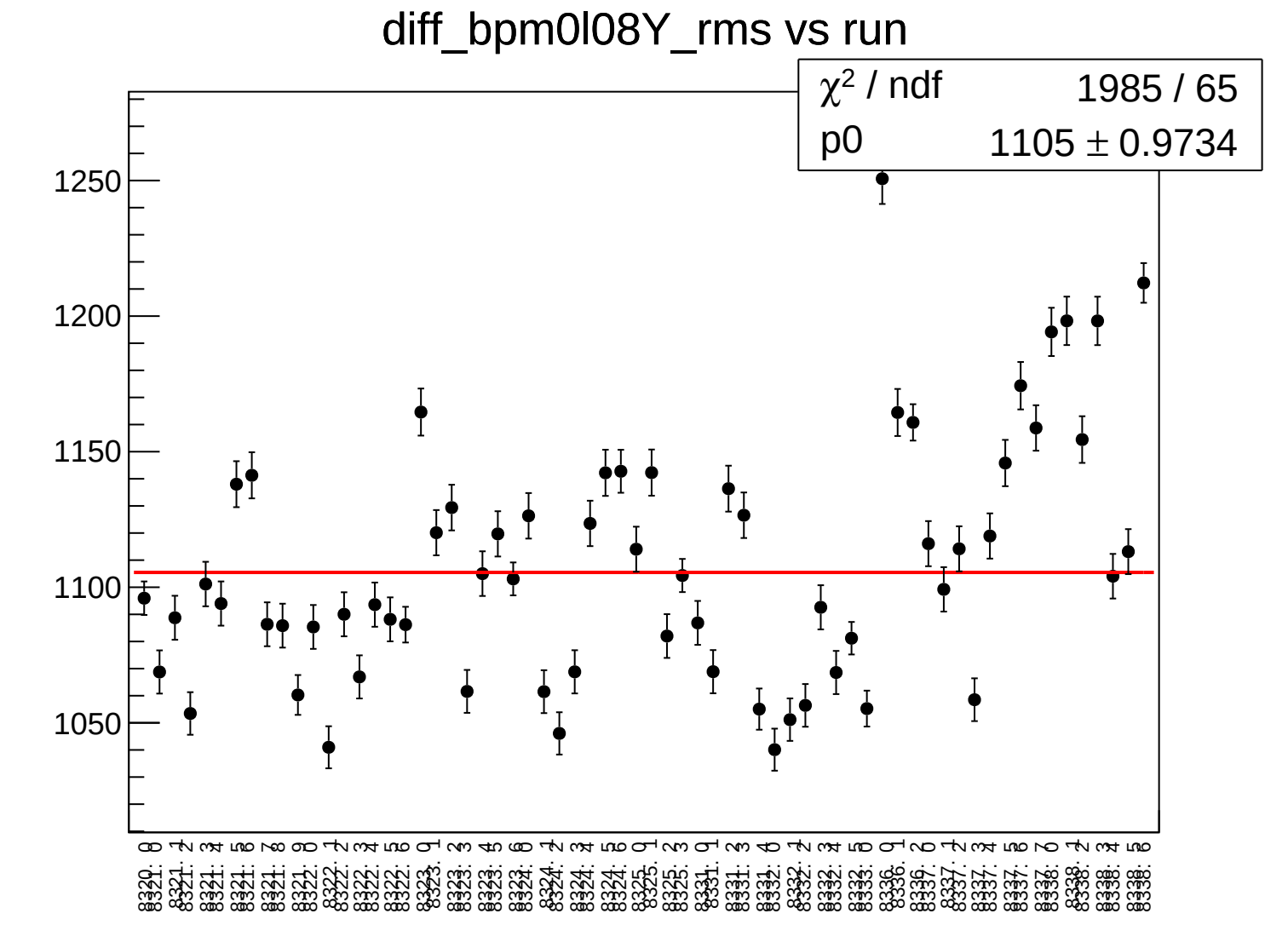

diff_bpm0l08X_mean vs run
χ² / ndf 69.51 / 65
p0 −94.66 ± 12.45
pull
Entries 66
Mean −67.71
Std Dev 92.13

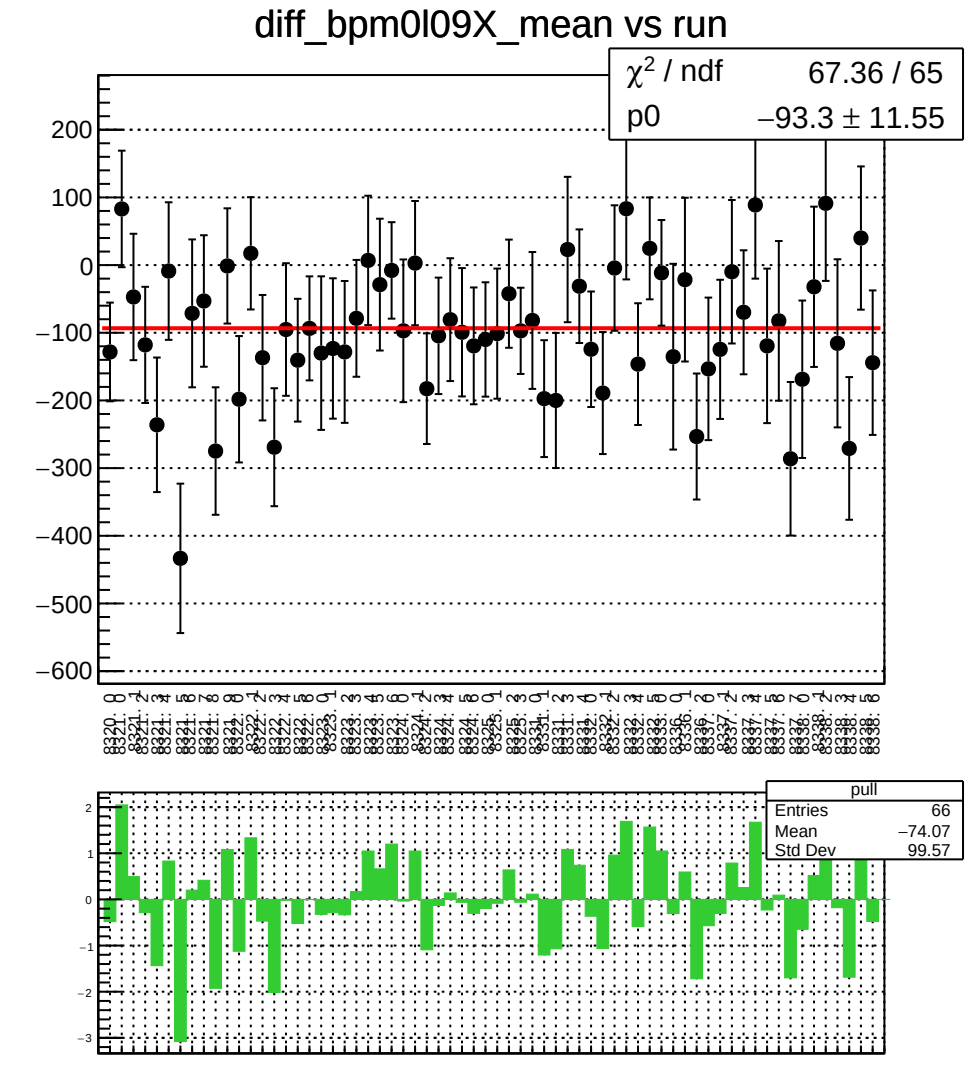

pull1D
Entries 66
Mean −0.01645
Std Dev 1.026

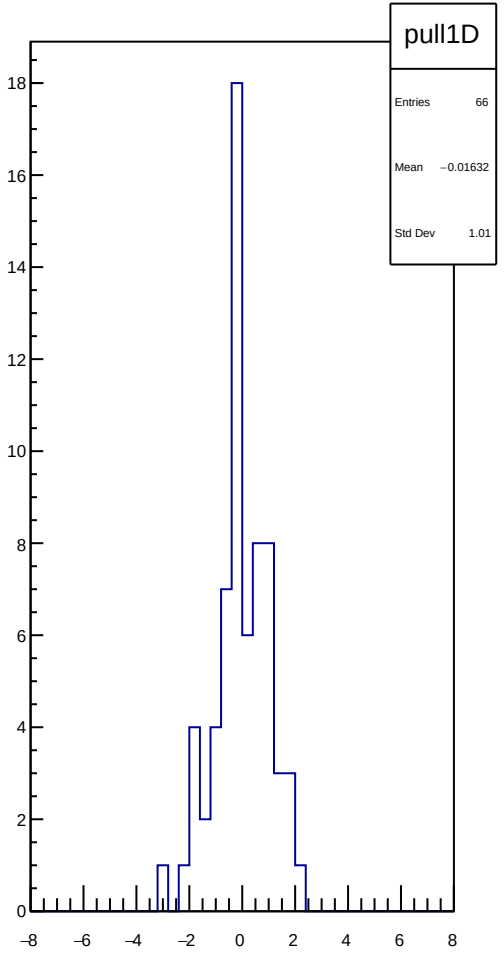

diff_bpm0l08X_rms vs run
χ² / ndf 1.792e+04 / 65
p0 9936 ± 8.804
14000
13000
12000
11000
10000
9000
8000

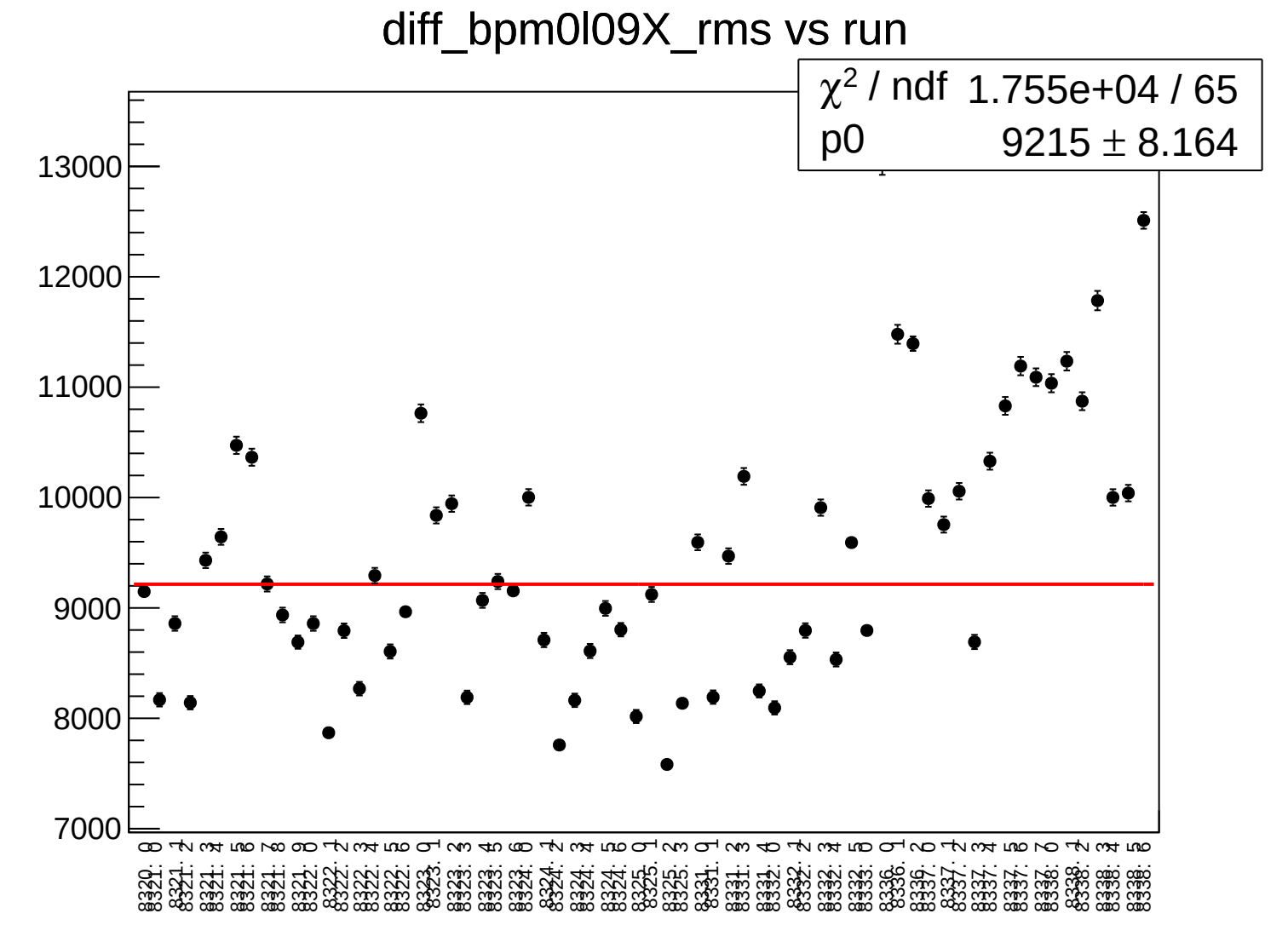

diff_bpm0l08Y_mean vs run
χ² / ndf 176.5 / 65
p0 −6.058 ± 1.377
pull
Entries 66
Mean 86.16
Std Dev 94.64

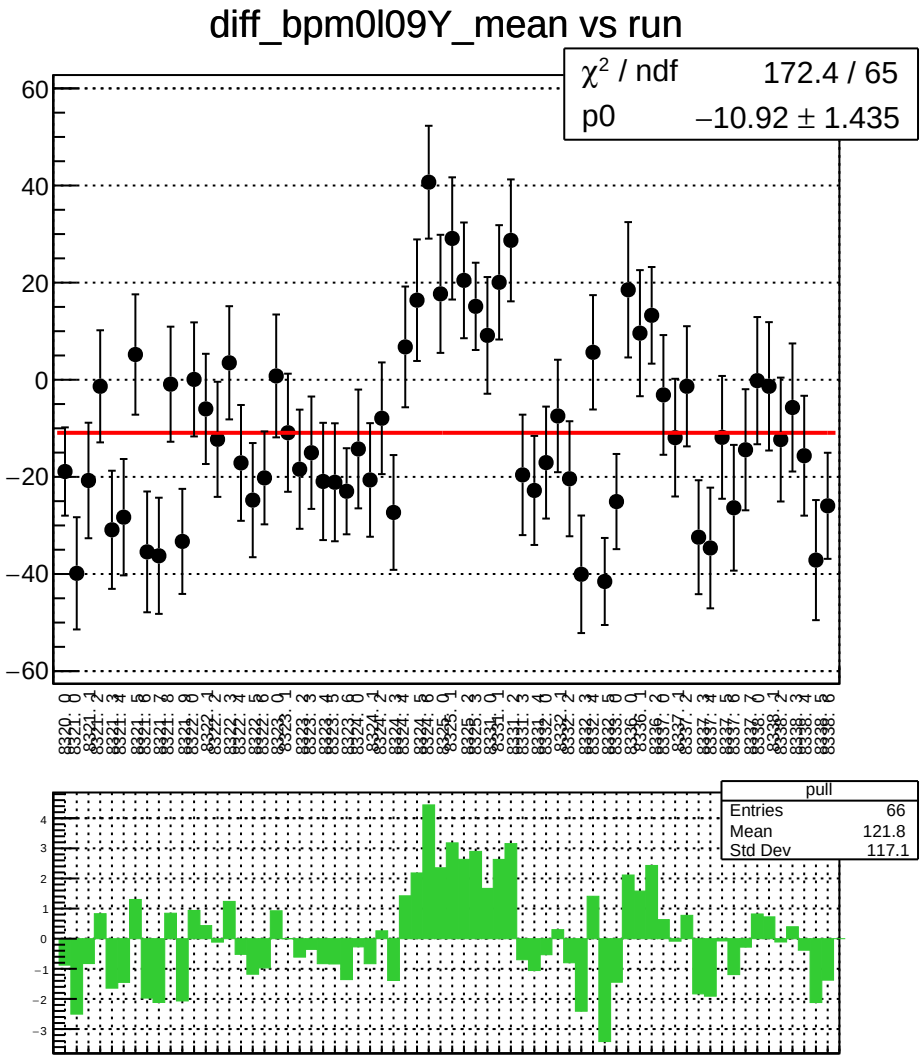

pull1D
Entries 66
Mean 0.03375
Std Dev 1.635

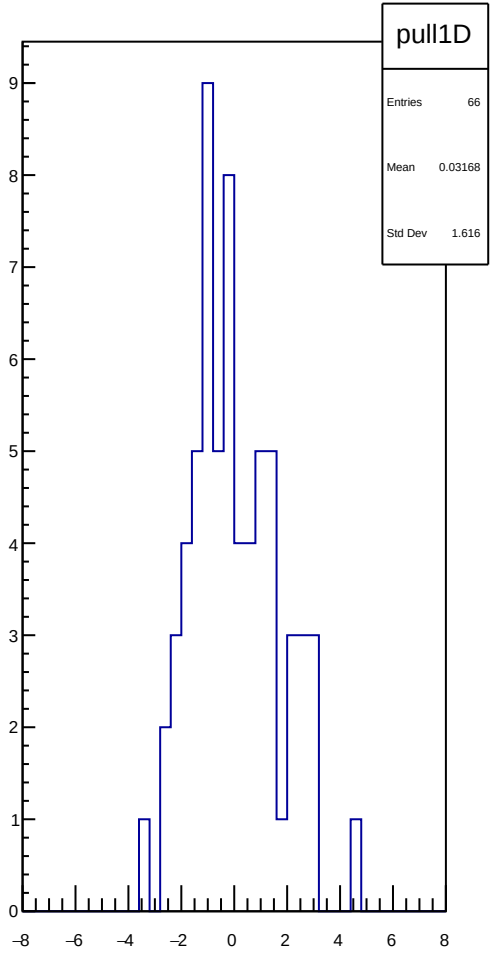

diff_bpm0l08Y_rms vs run
χ² / ndf 1985 / 65
p0 1105 ± 0.9734
1250
1200
1150
1100
1050

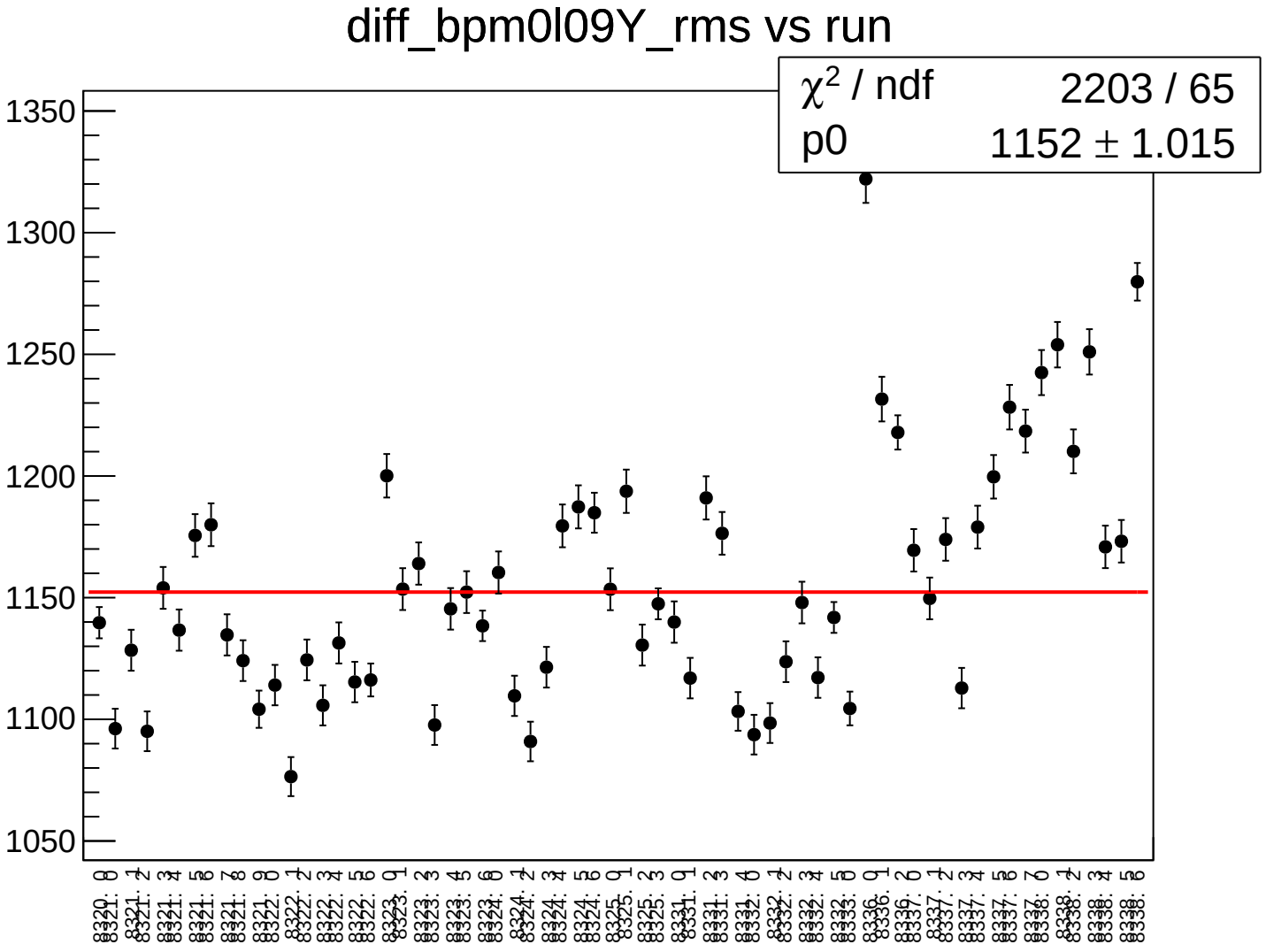

diff_bpm0l09X_mean vs run
χ² / ndf 67.36 / 65
p0 −93.3 ± 11.55
pull
Entries 66
Mean −74.07
Std Dev 99.57

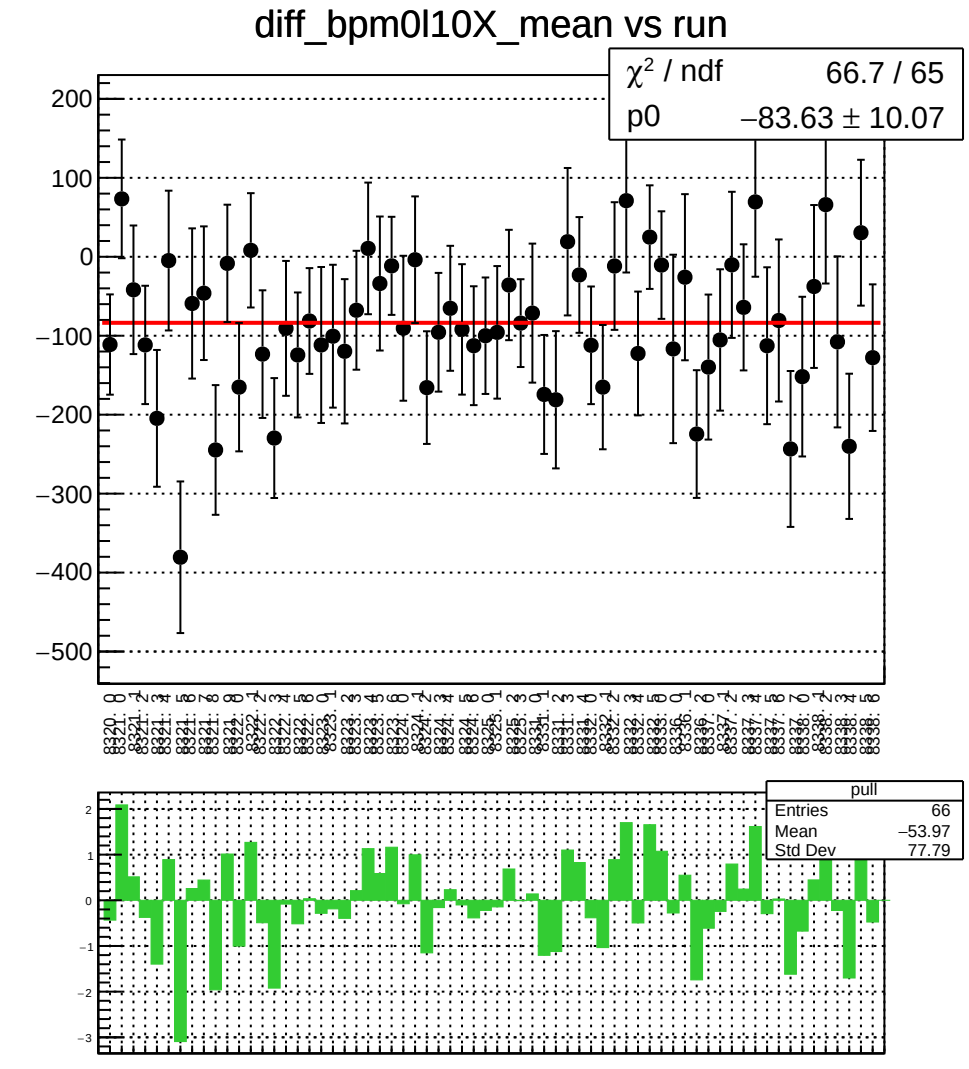

pull1D
Entries 66
Mean −0.01632
Std Dev 1.01

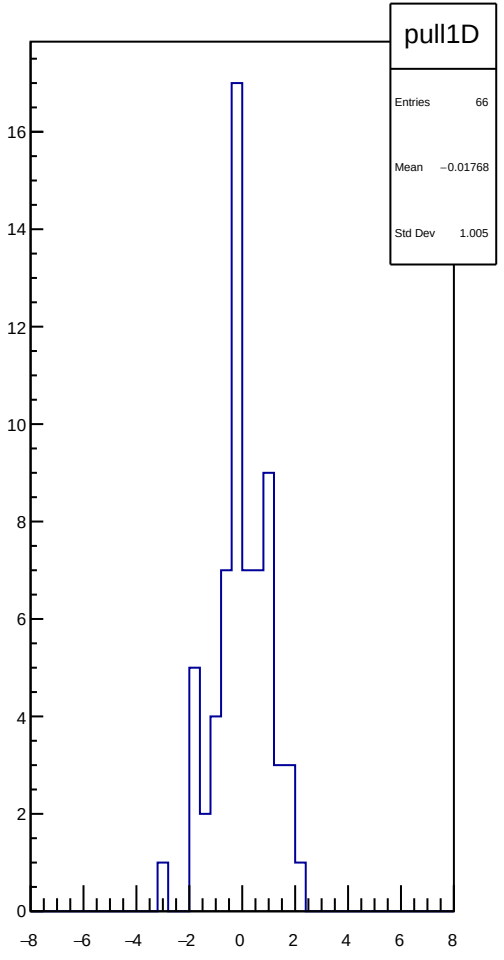

diff_bpm0l09X_rms vs run
χ² / ndf 1.755e+04 / 65
p0 9215 ± 8.164
13000
12000
11000
10000
9000
8000
7000

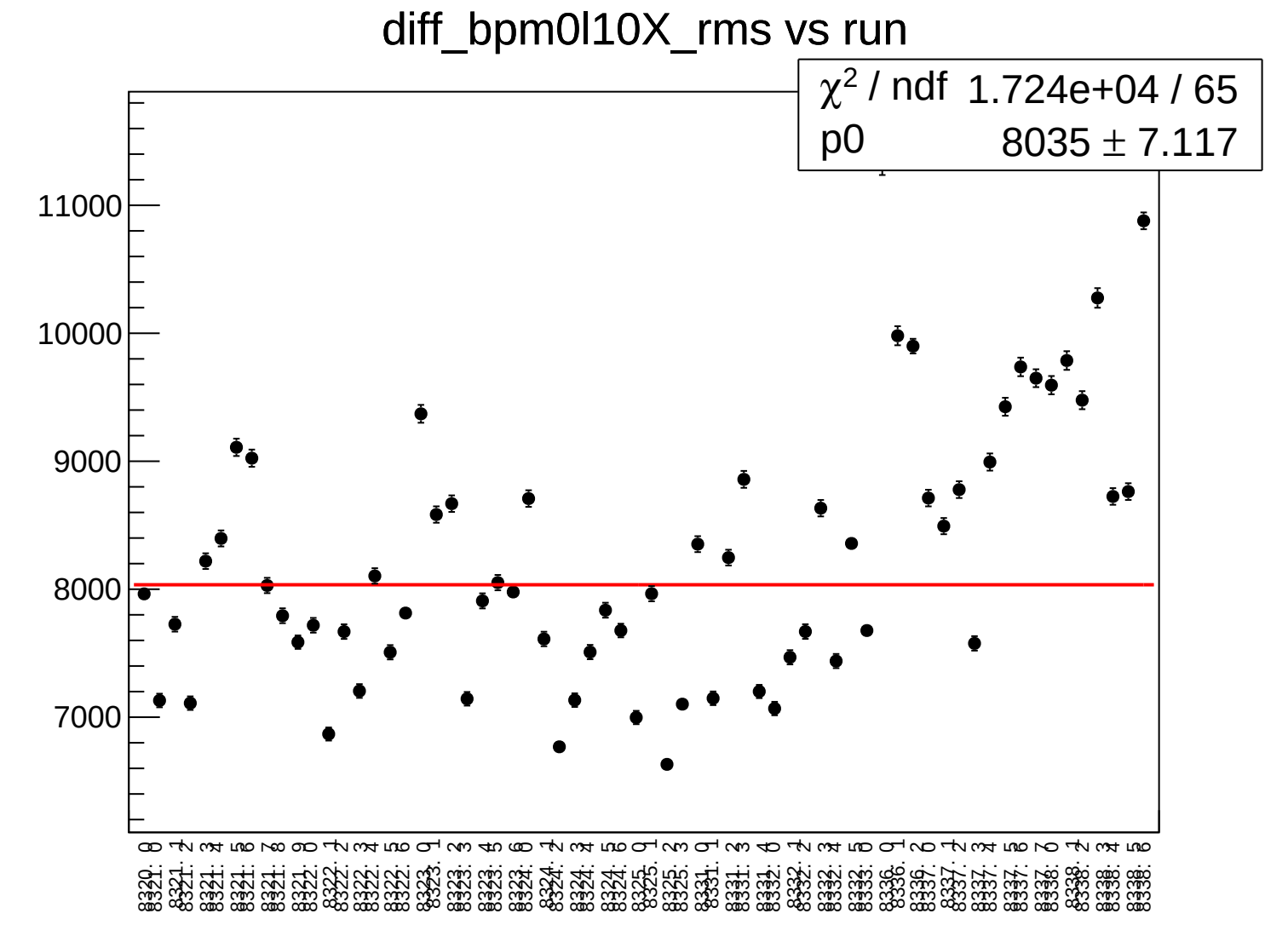

diff_bpm0l09Y_mean vs run
χ² / ndf 172.4 / 65
p0 −10.92 ± 1.435
pull
Entries 66
Mean 121.8
Std Dev 117.1

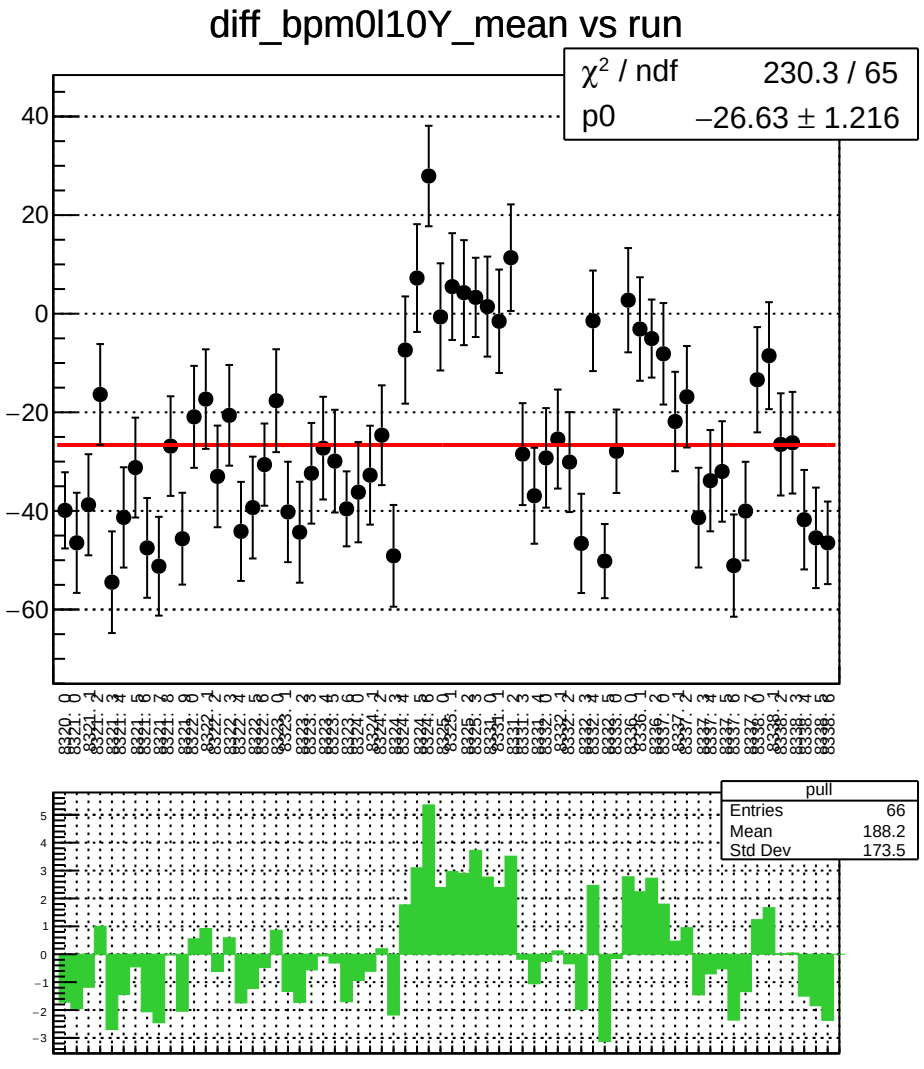

pull1D
Entries 66
Mean 0.03168
Std Dev 1.616

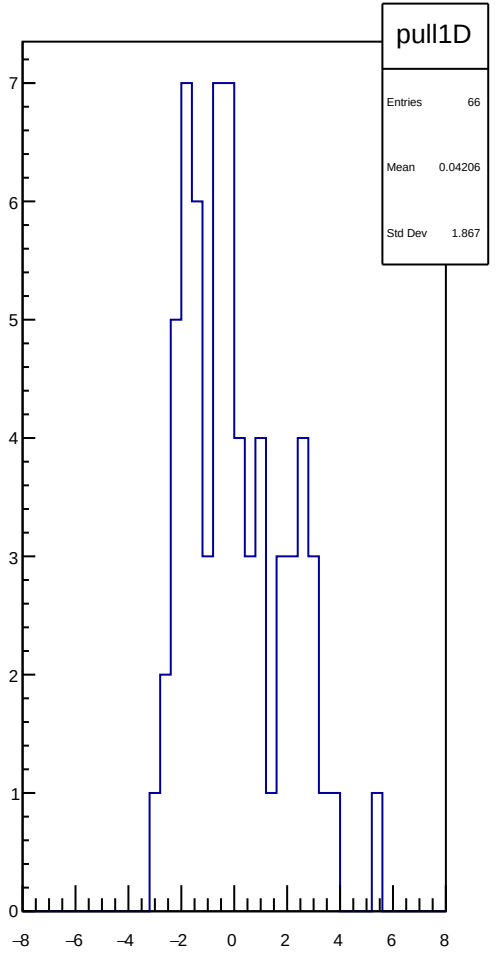

diff_bpm0l09Y_rms vs run
χ² / ndf 2203 / 65
p0 1152 ± 1.015
1350
1300
1250
1200
1150
1100
1050

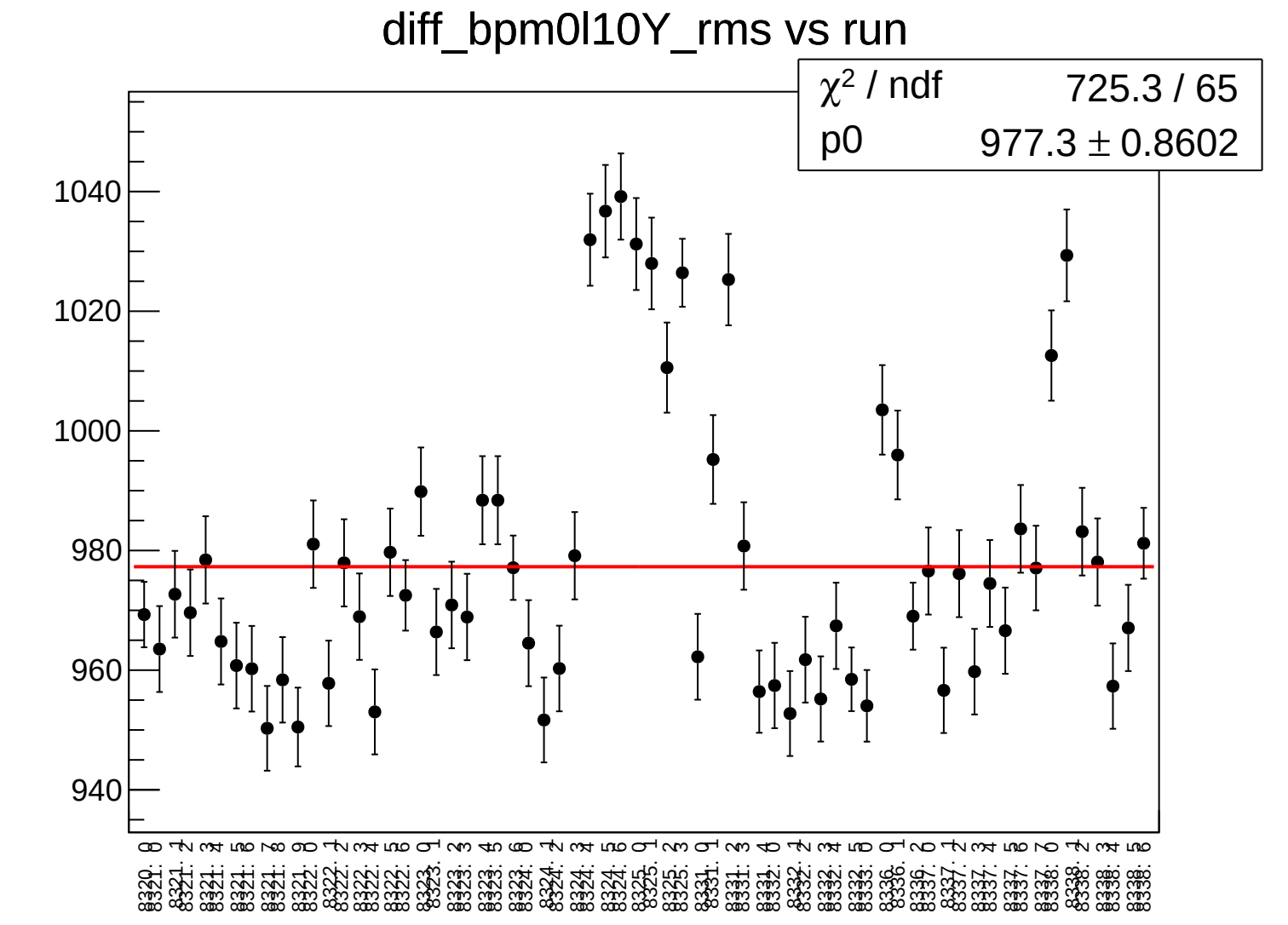

diff_bpm0l10X_mean vs run
χ² / ndf 66.7 / 65
p0 −83.63 ± 10.07
pull
Entries 66
Mean −53.97
Std Dev 77.79

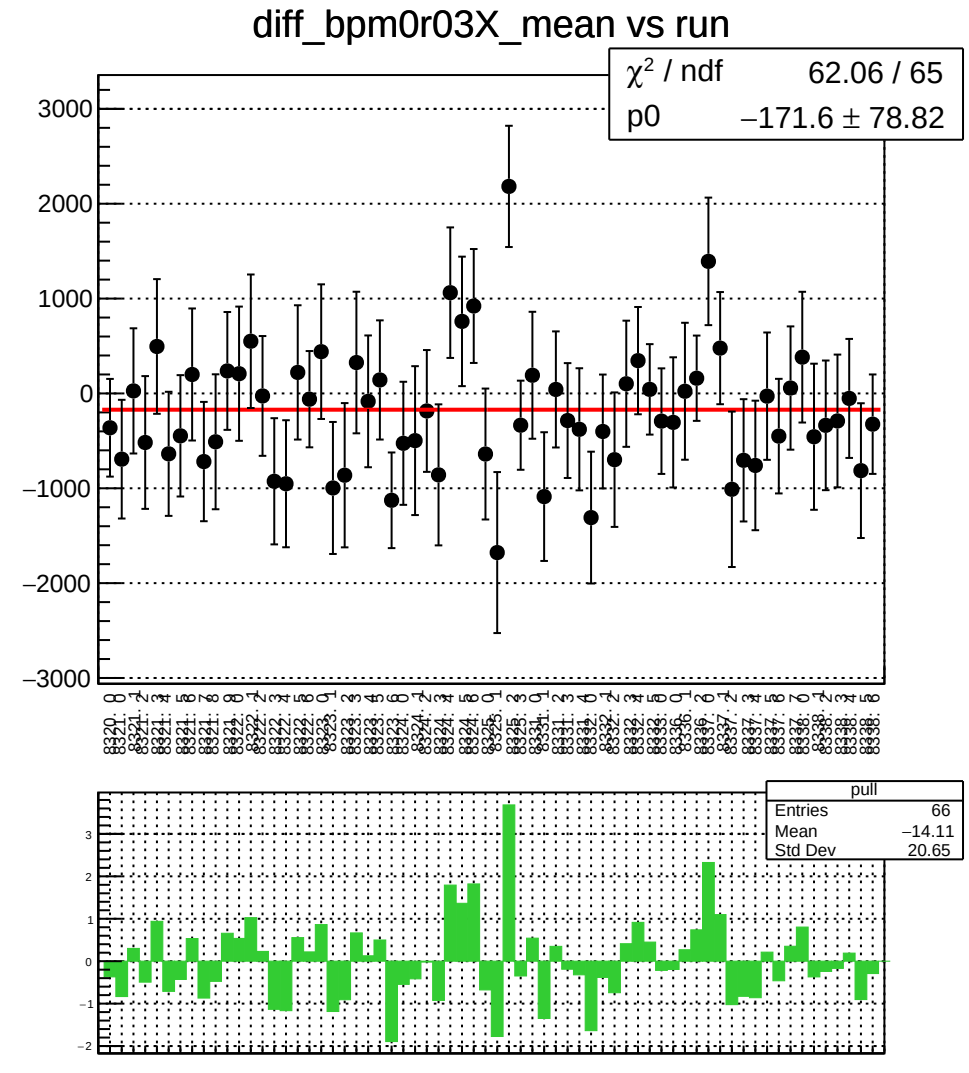

pull1D
Entries 66
Mean −0.01768
Std Dev 1.005

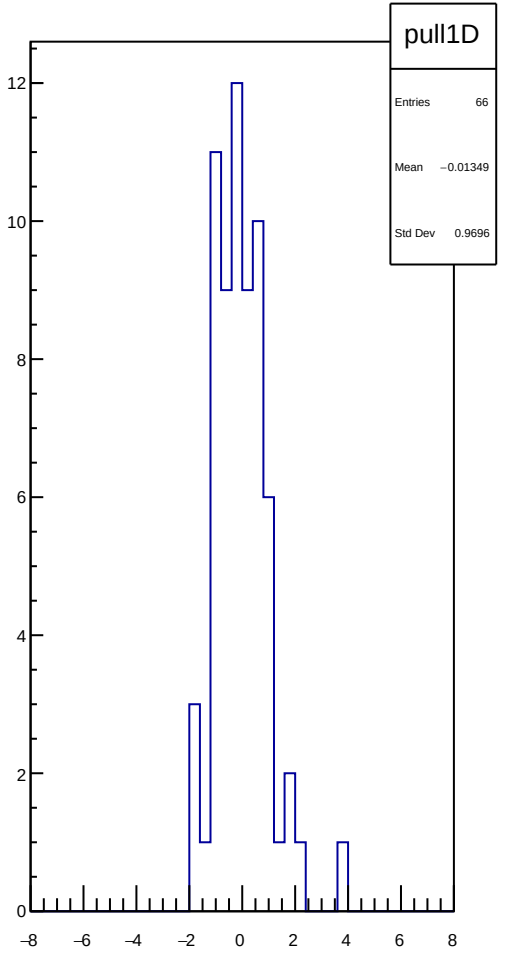

diff_bpm0l10X_rms vs run
χ² / ndf 1.724e+04 / 65
p0 8035 ± 7.117
11000
10000
9000
8000
7000

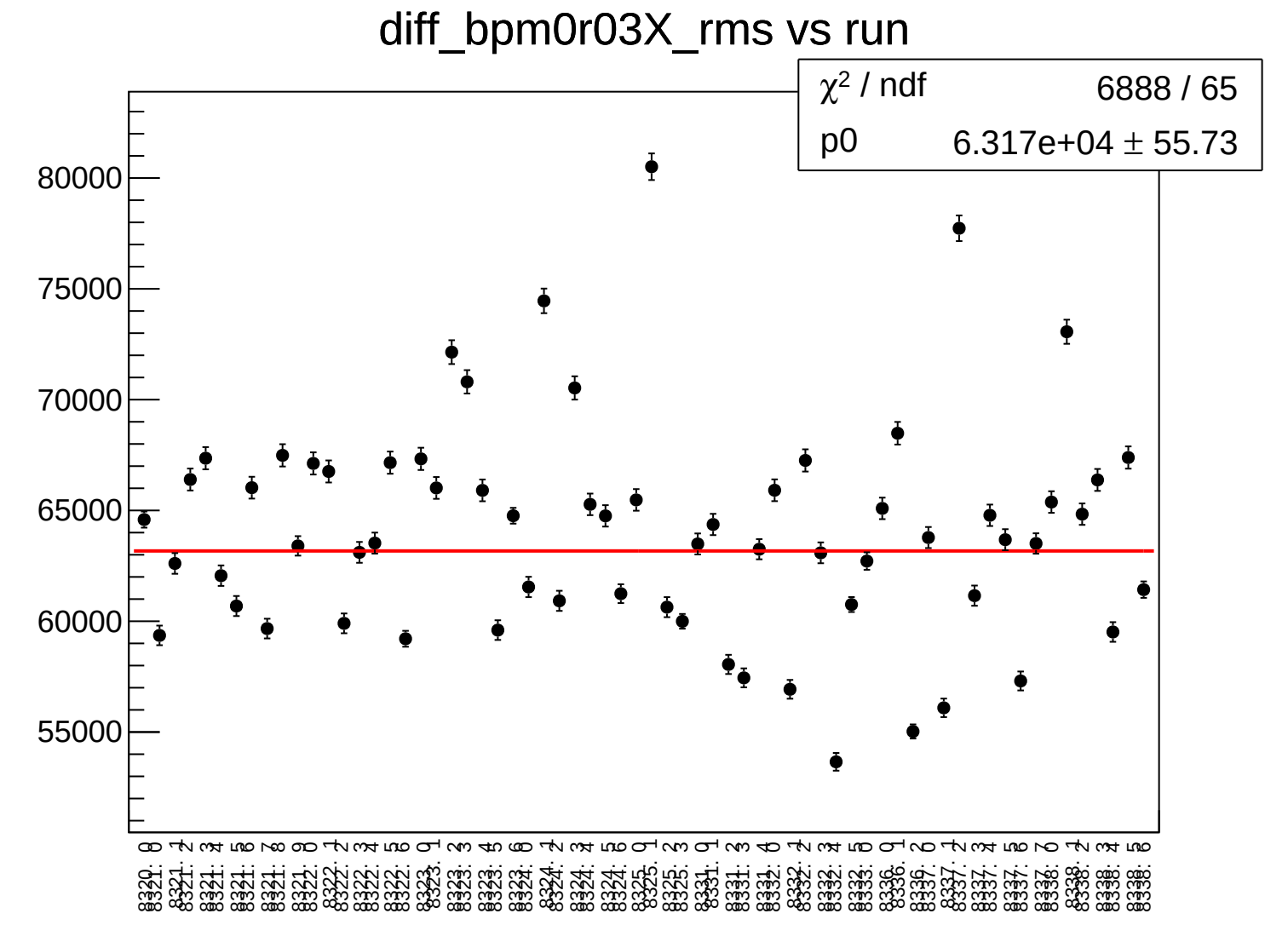

diff_bpm0l10Y_mean vs run
χ² / ndf 230.3 / 65
p0 −26.63 ± 1.216
pull
Entries 66
Mean 188.2
Std Dev 173.5

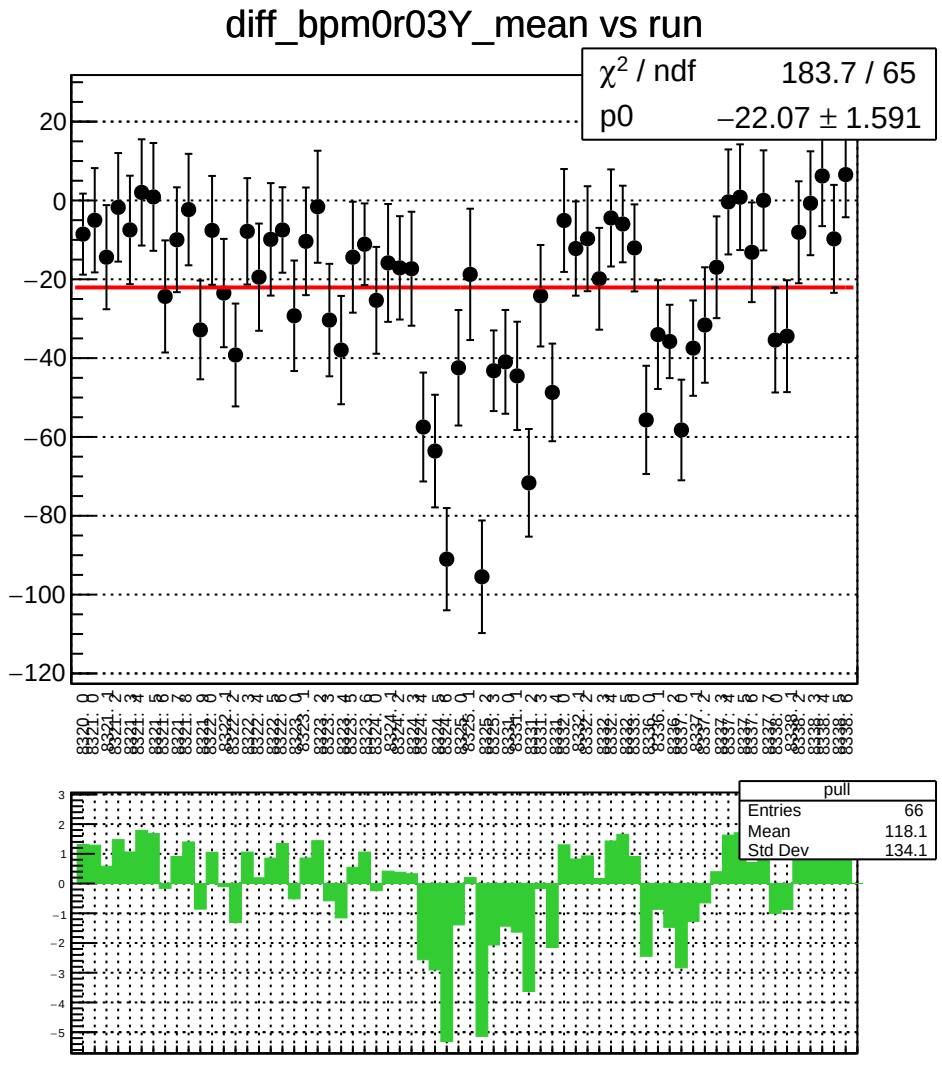

pull1D
Entries 66
Mean 0.04206
Std Dev 1.867

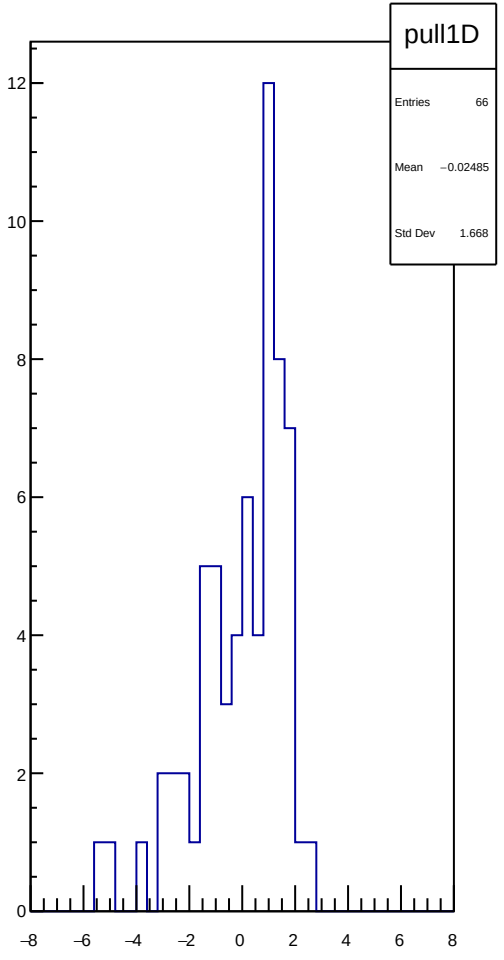

diff_bpm0l10Y_rms vs run
χ² / ndf 725.3 / 65
p0 977.3 ± 0.8602
1040
1020
1000
980
960
940

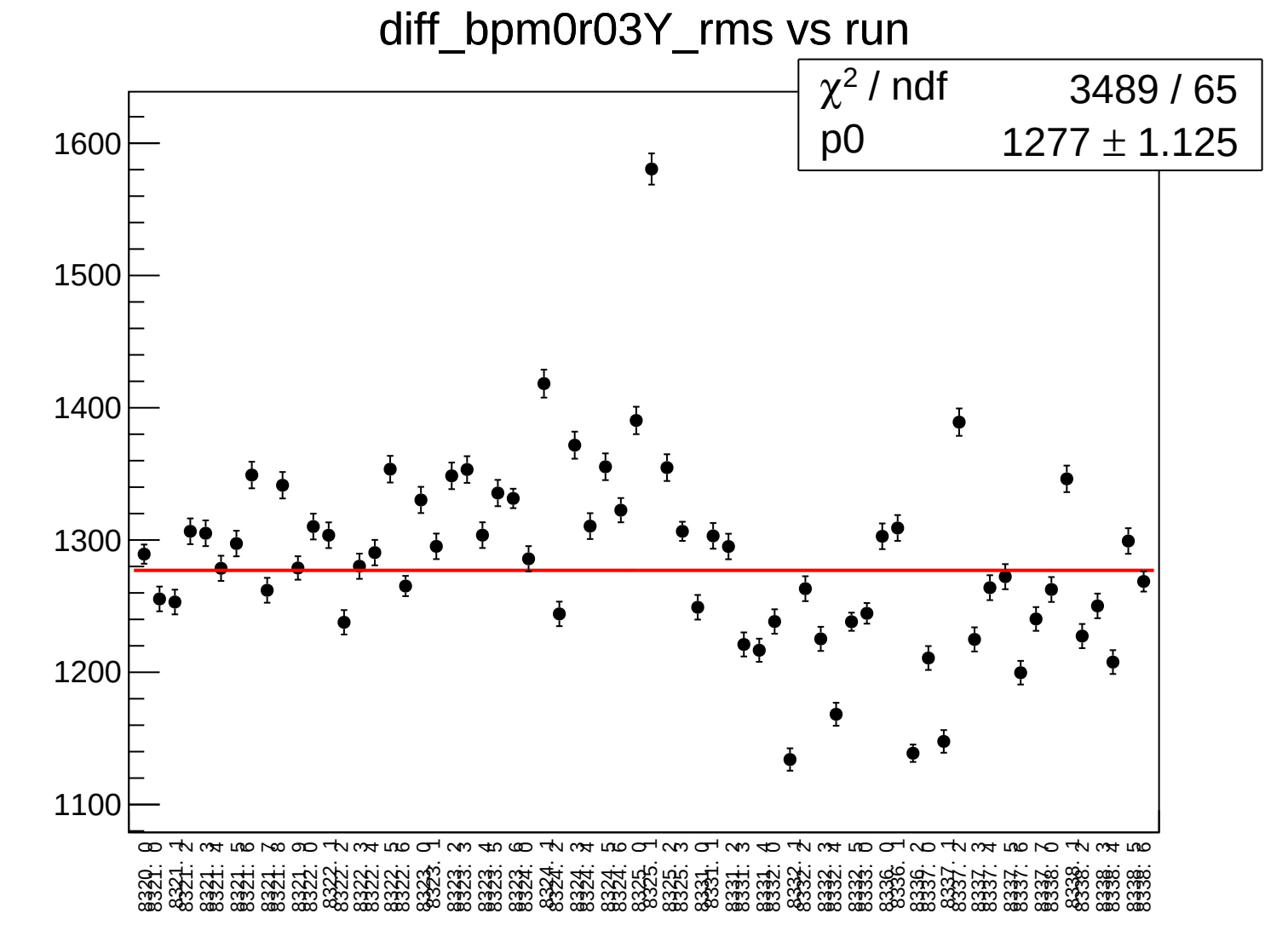

diff_bpm0r03X_mean vs run
χ² / ndf 62.06 / 65
p0 −171.6 ± 78.82
pull
Entries 66
Mean −14.11
Std Dev 20.65

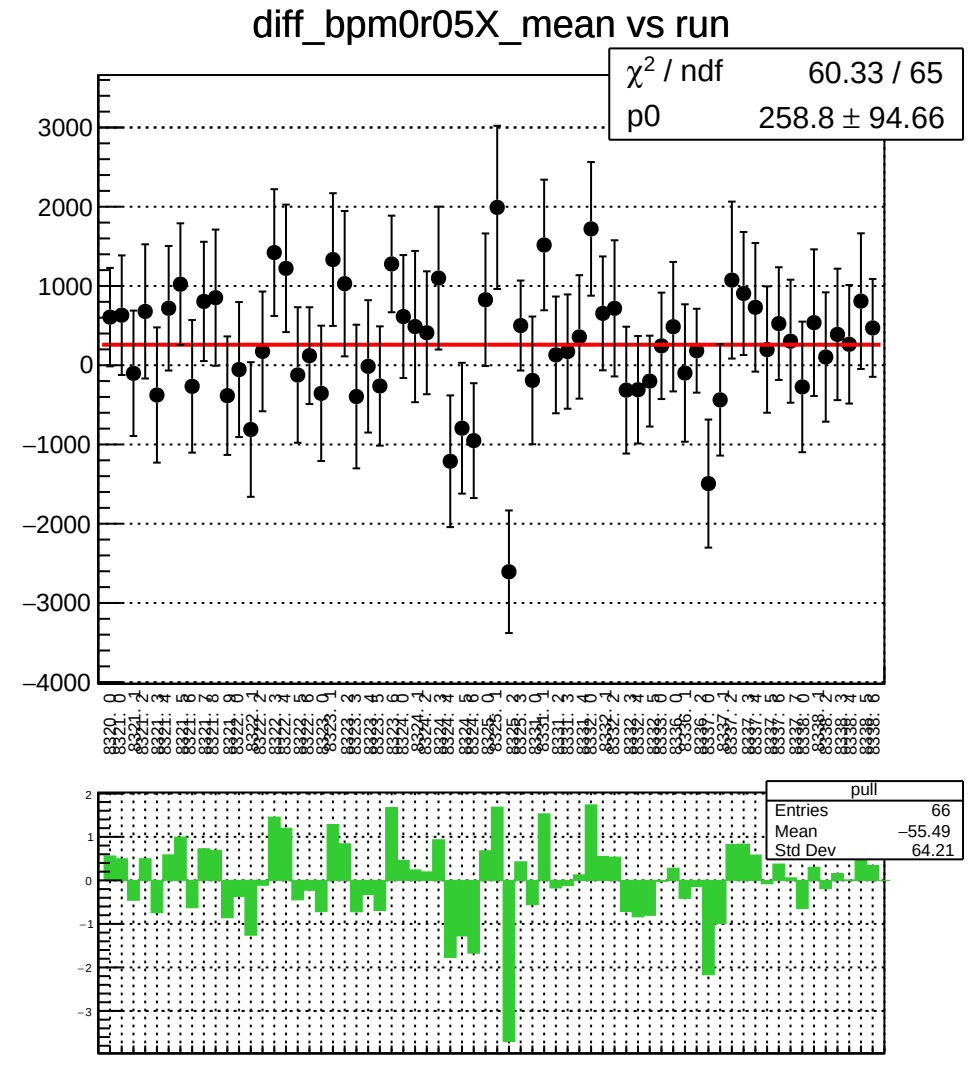

pull1D
Entries 66
Mean −0.01349
Std Dev 0.9696

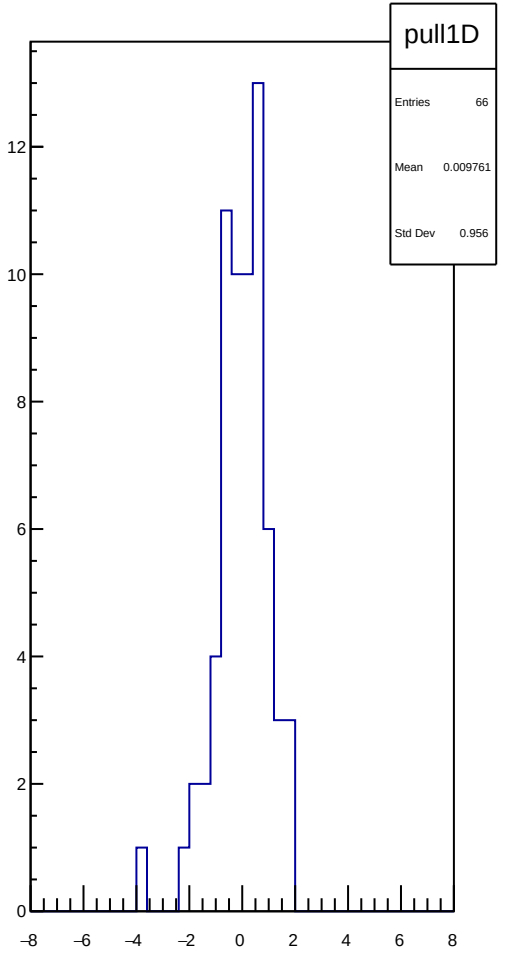

diff_bpm0r03X_rms vs run
χ² / ndf 6888 / 65
p0 6.317e+04 ± 55.73
80000
75000
70000
65000
60000
55000

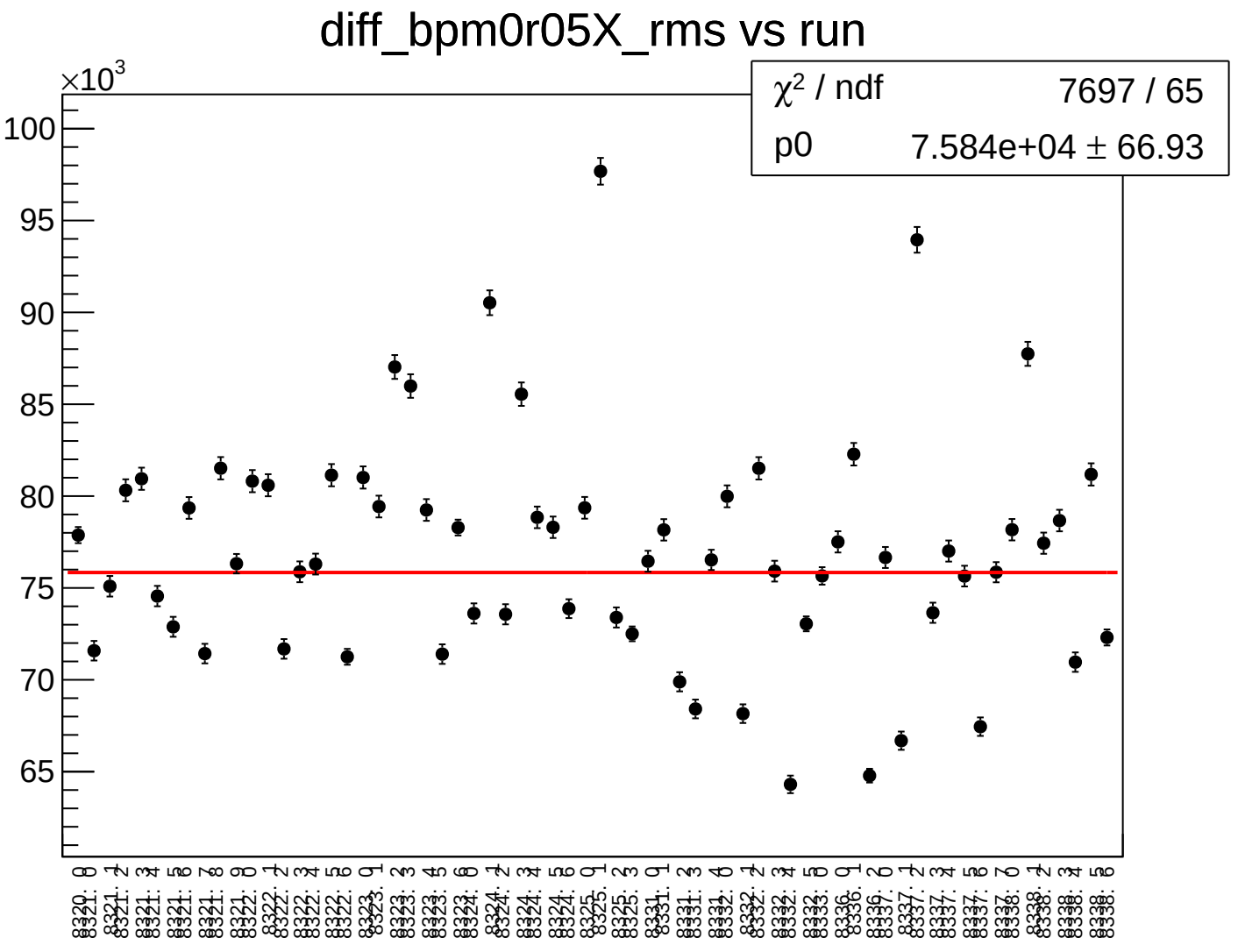

diff_bpm0r03Y_mean vs run
χ² / ndf 183.7 / 65
p0 −22.07 ± 1.591
pull
Entries 66
Mean 118.1
Std Dev 134.1

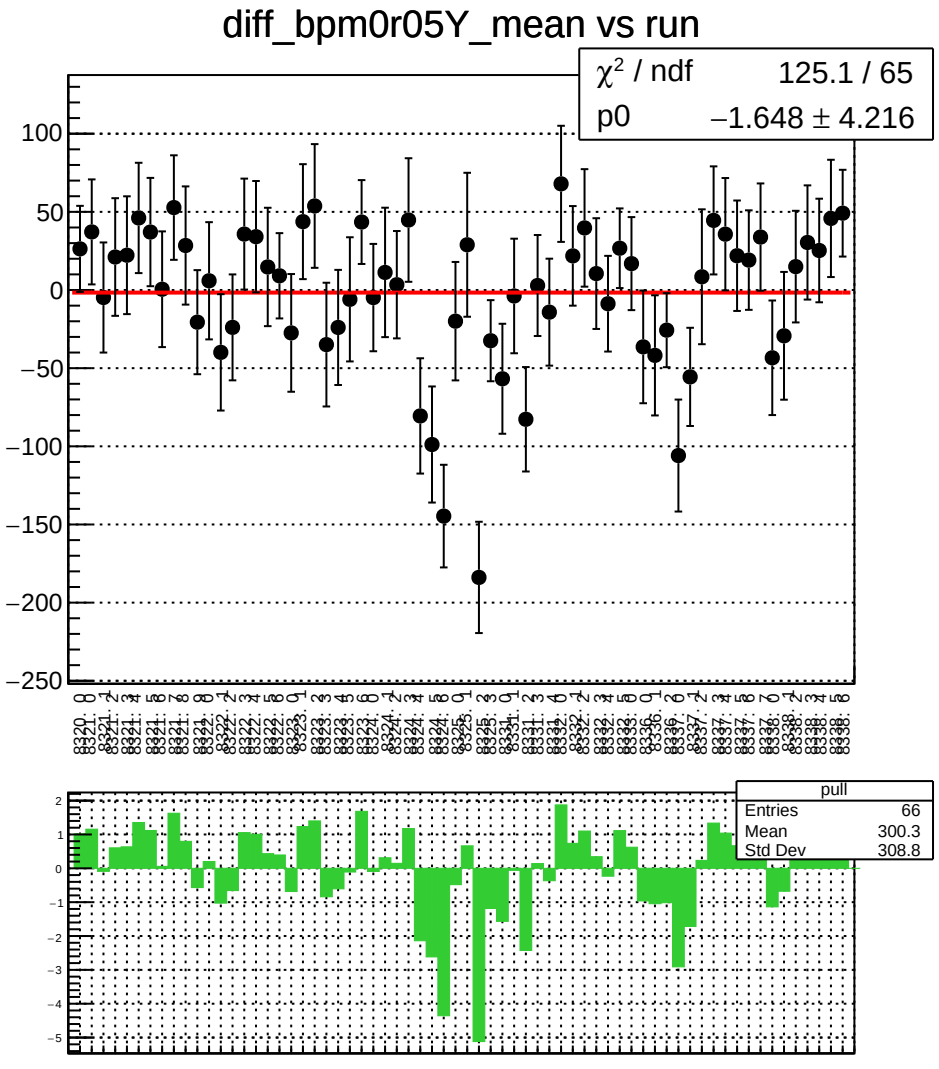

pull1D
Entries 66
Mean −0.02485
Std Dev 1.668

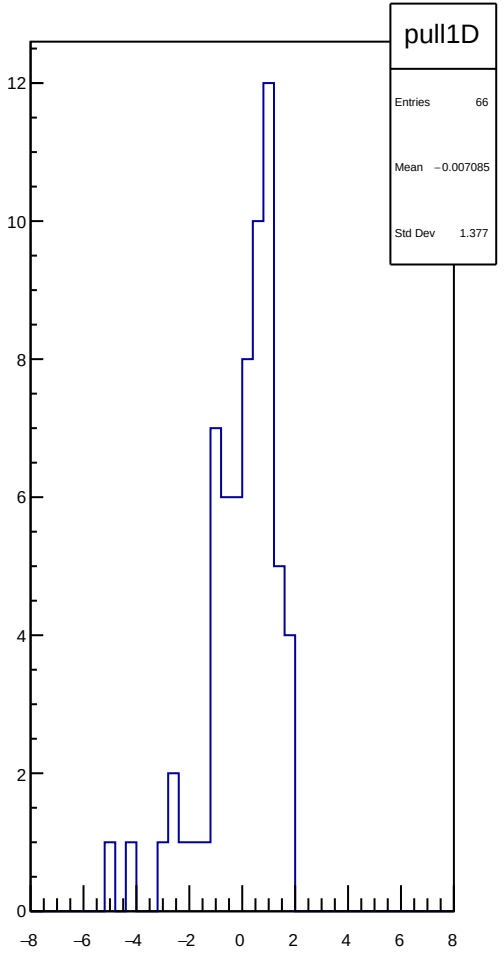

diff_bpm0r03Y_rms vs run
χ² / ndf 3489 / 65
p0 1277 ± 1.125
1600
1500
1400
1300
1200
1100

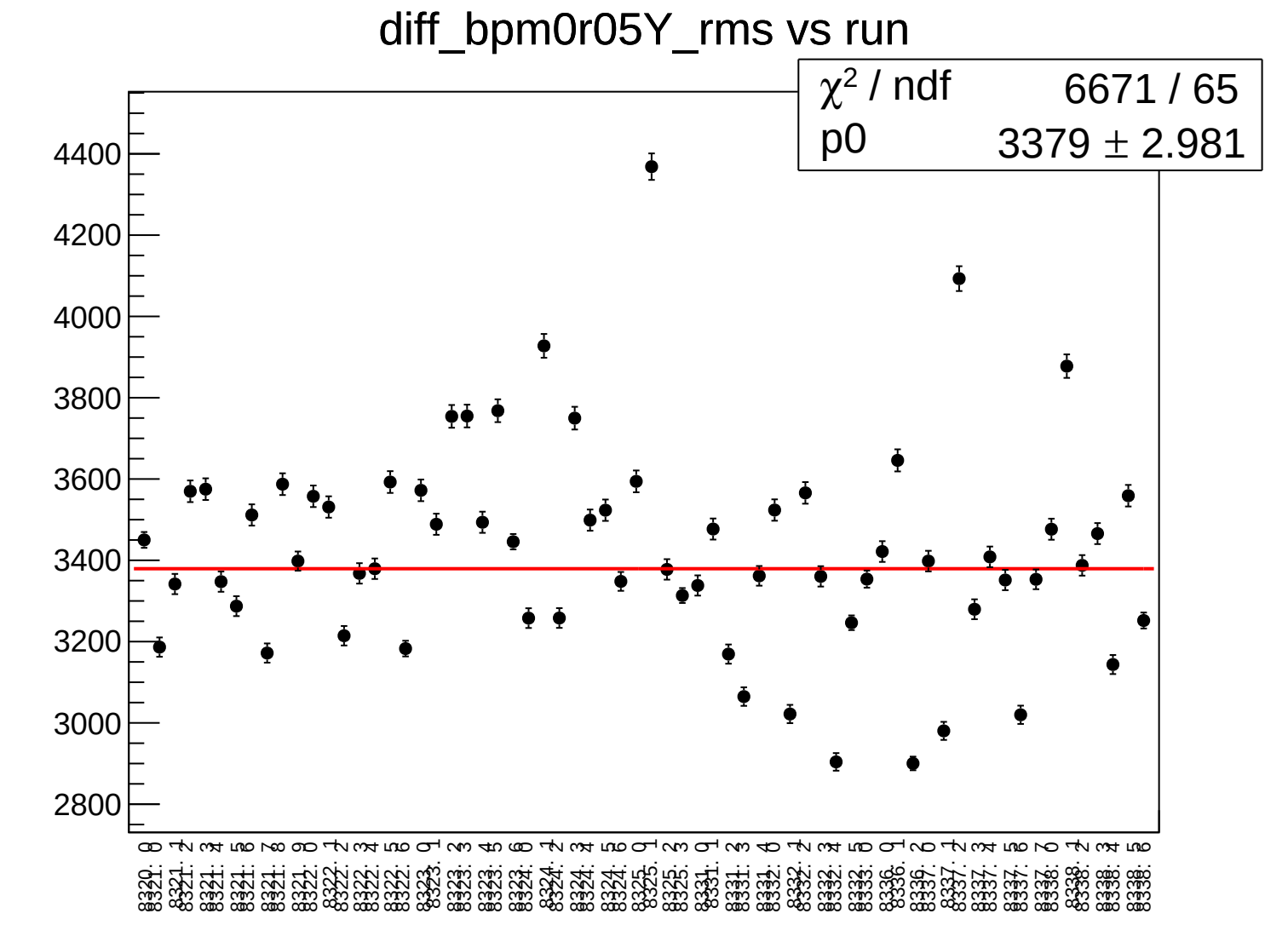

diff_bpm0r05X_mean vs run
χ² / ndf 60.33 / 65
p0 258.8 ± 94.66
pull
Entries 66
Mean −55.49
Std Dev 64.21

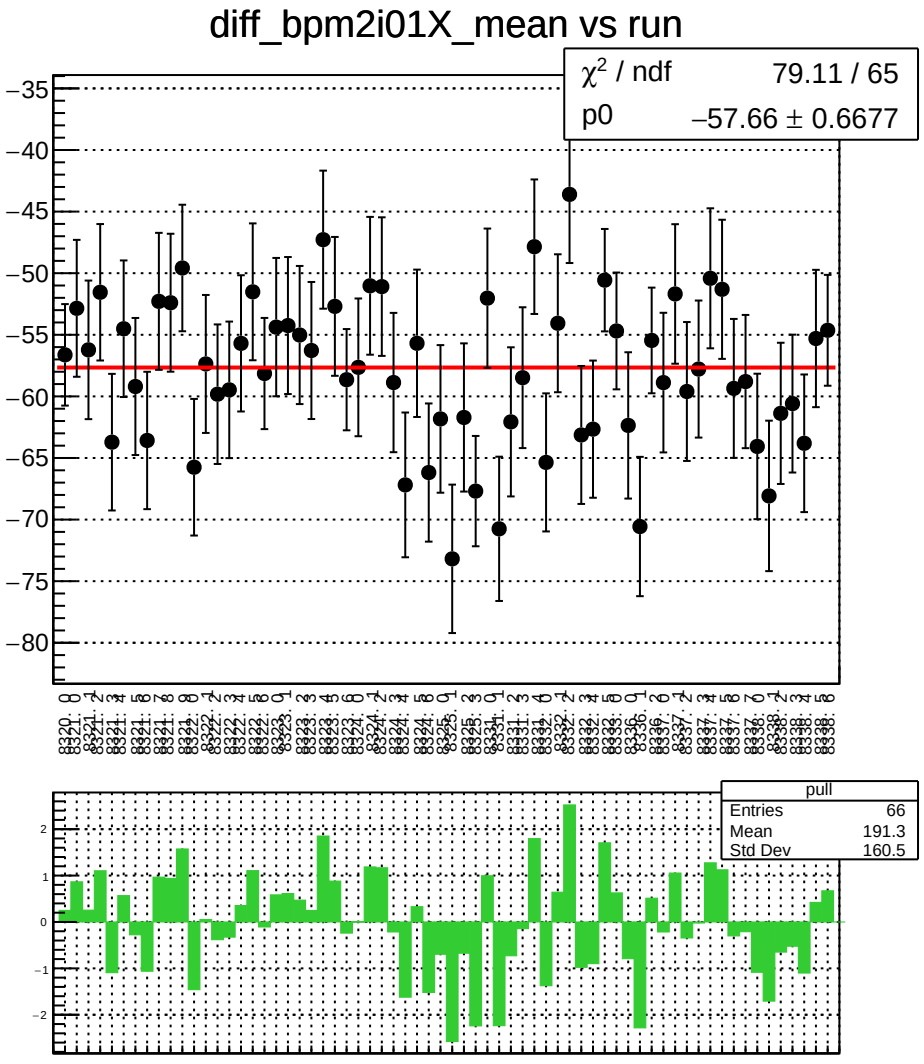

pull1D
Entries 66
Mean 0.009761
Std Dev 0.956

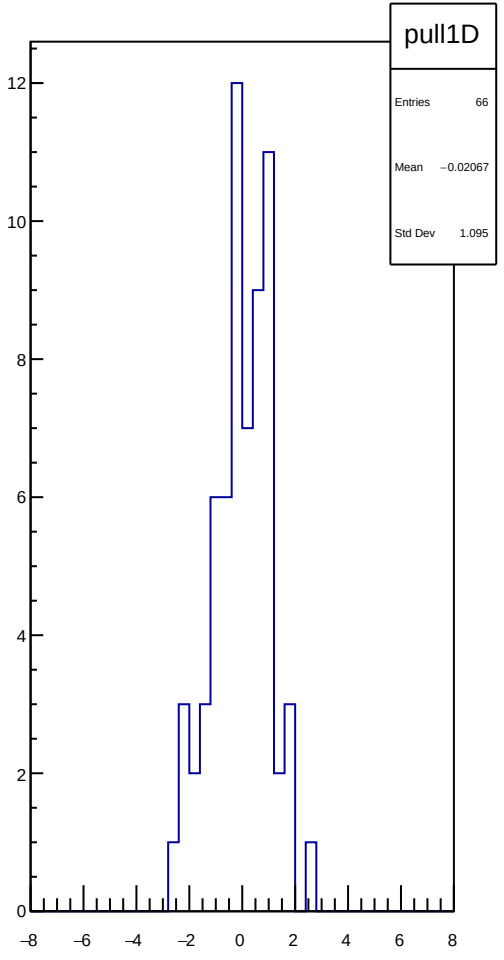

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 7697 / 65
p0 7.584e+04 ± 66.93
100
95
90
85
80
75
70
65

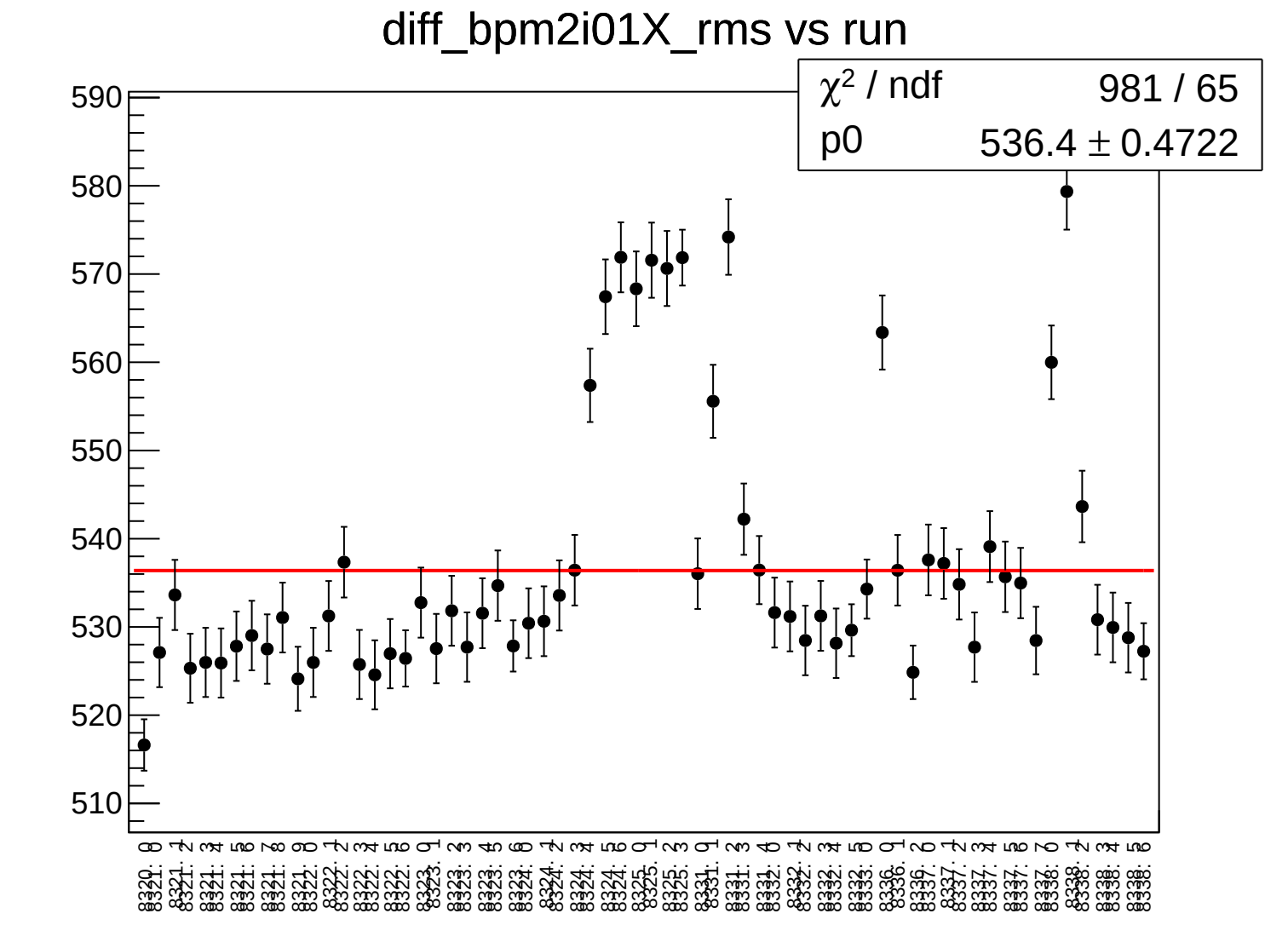

diff_bpm0r05Y_mean vs run
χ² / ndf 125.1 / 65
p0 −1.648 ± 4.216
pull
Entries 66
Mean 300.3
Std Dev 308.8

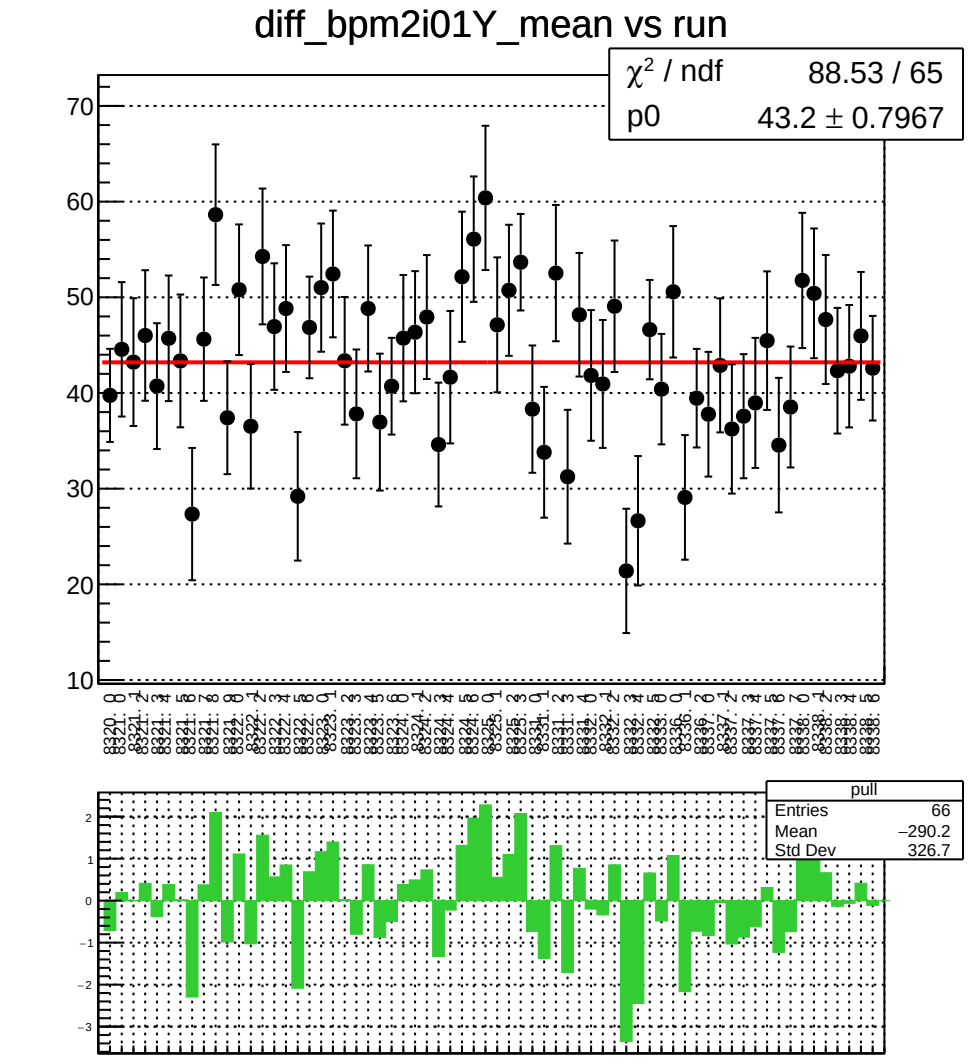

pull1D
Entries 66
Mean −0.007085
Std Dev 1.377

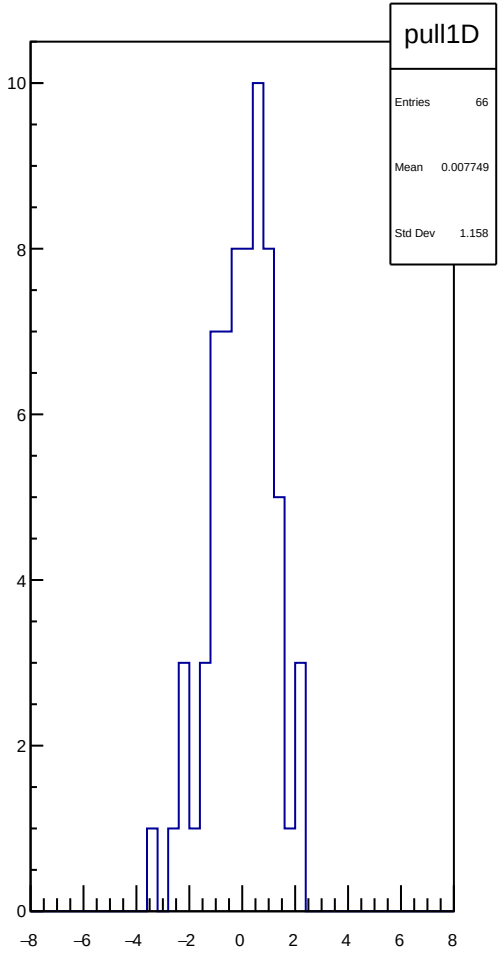

diff_bpm0r05Y_rms vs run
χ² / ndf 6671 / 65
p0 3379 ± 2.981
4400
4200
4000
3800
3600
3400
3200
3000
2800

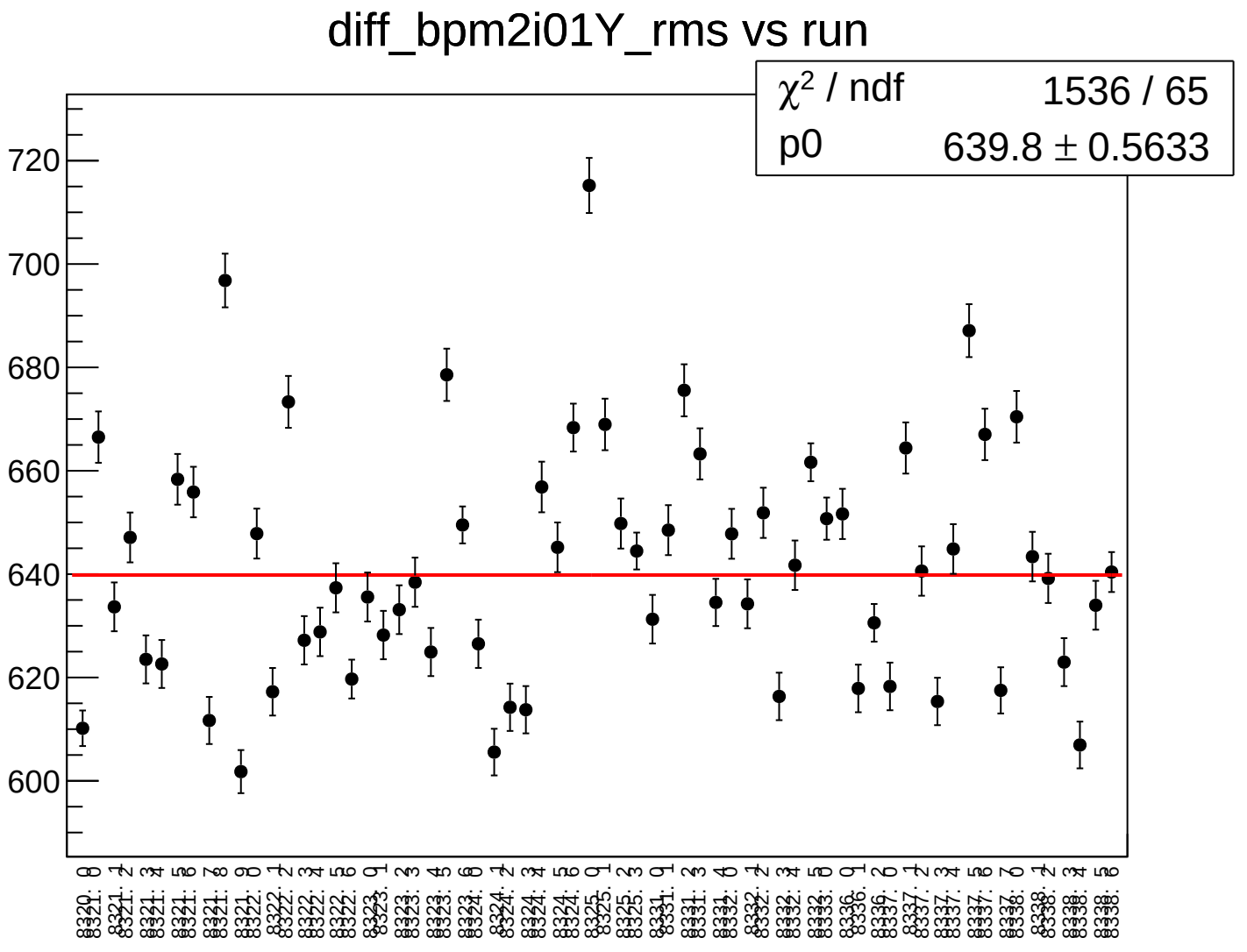

diff_bpm2i01X_mean vs run
χ² / ndf 79.11 / 65
p0 −57.66 ± 0.6677
pull
Entries 66
Mean 191.3
Std Dev 160.5

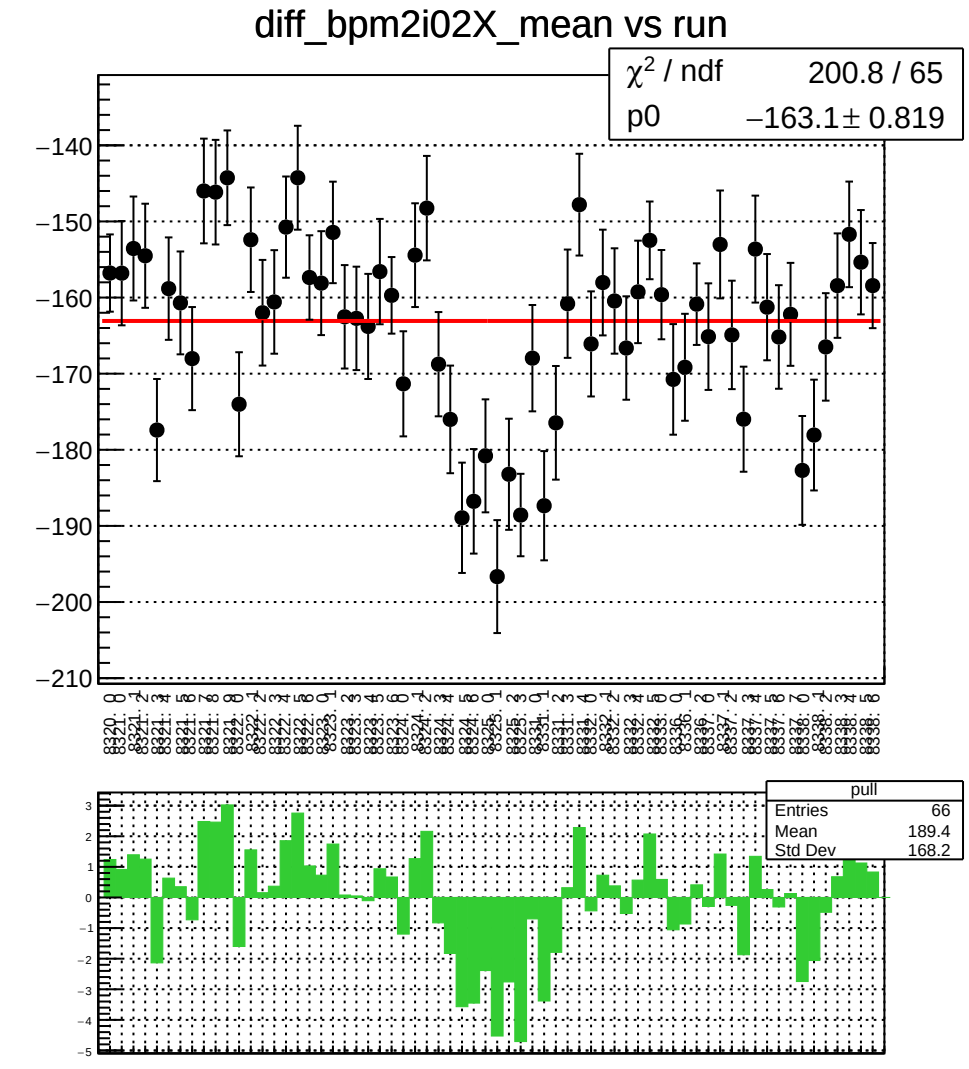

pull1D
Entries 66
Mean −0.02067
Std Dev 1.095

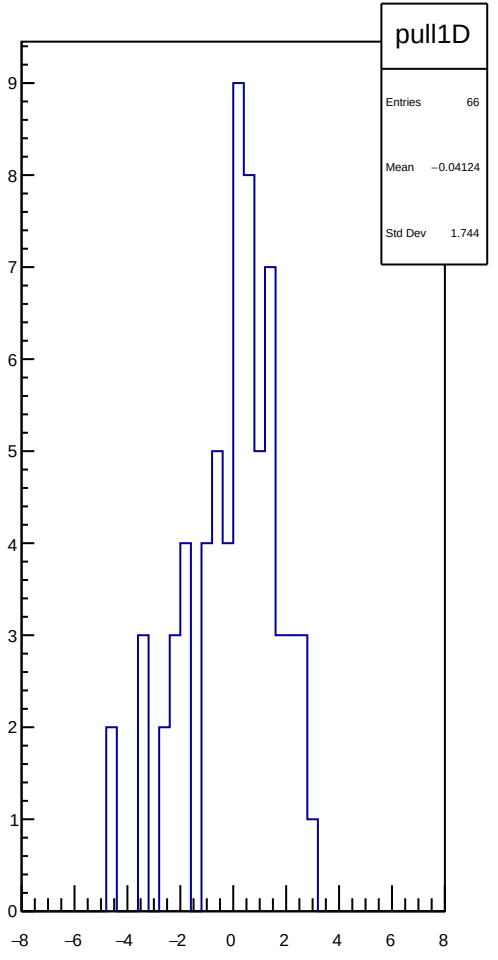

diff_bpm2i01X_rms vs run
χ^2 / ndf 981 / 65
p0 536.4 ± 0.4722
590
580
570
560
550
540
530
520
510

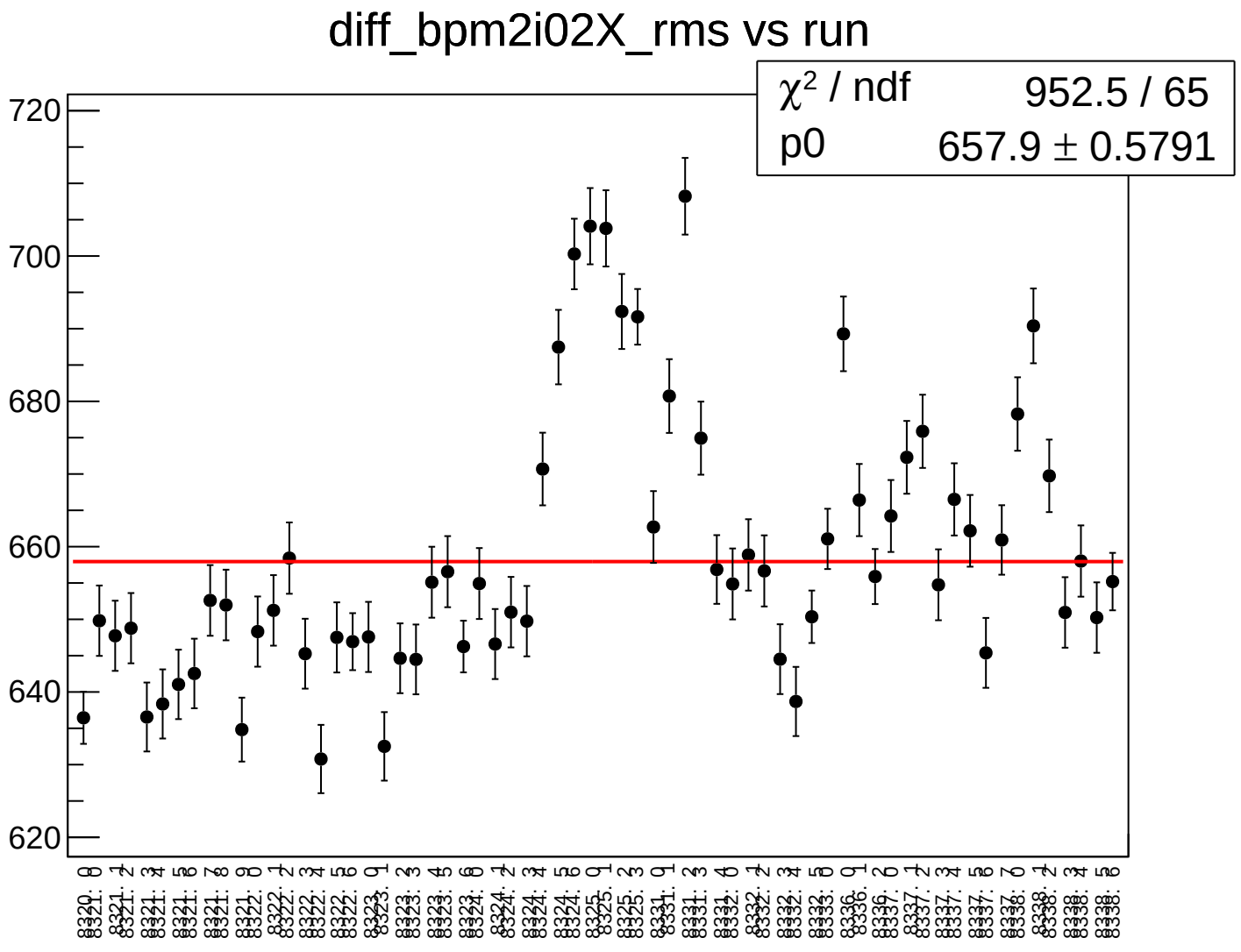

diff_bpm2i01Y_mean vs run
χ² / ndf 88.53 / 65
p0 43.2 ± 0.7967
pull
Entries 66
Mean −290.2
Std Dev 326.7

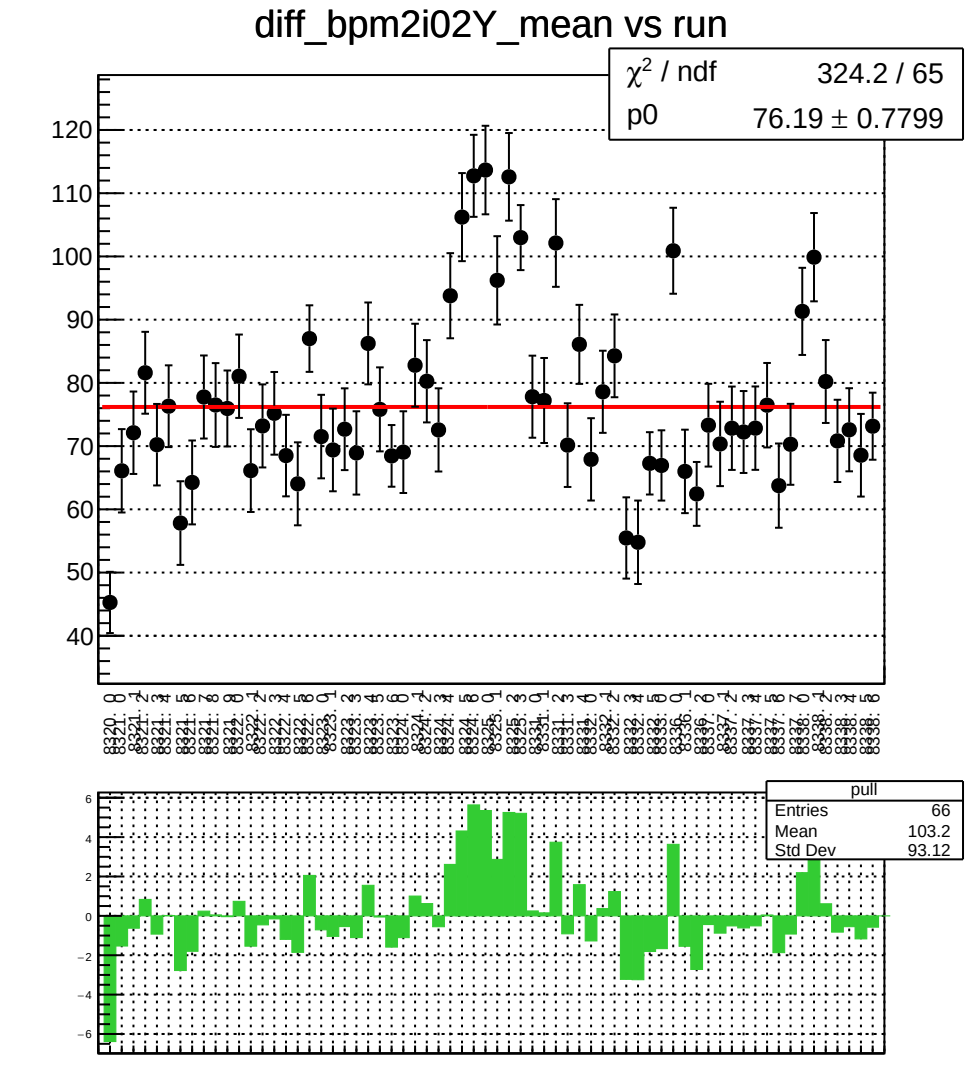

pull1D
Entries 66
Mean 0.007749
Std Dev 1.158

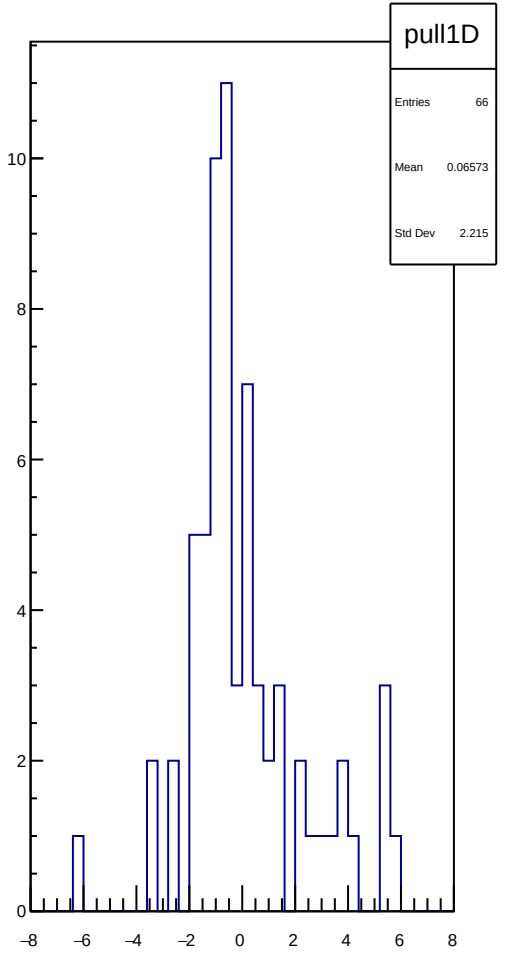

diff_bpm2i01Y_rms vs run
χ² / ndf 1536 / 65
p0 639.8 ± 0.5633
720
700
680
660
640
620
600

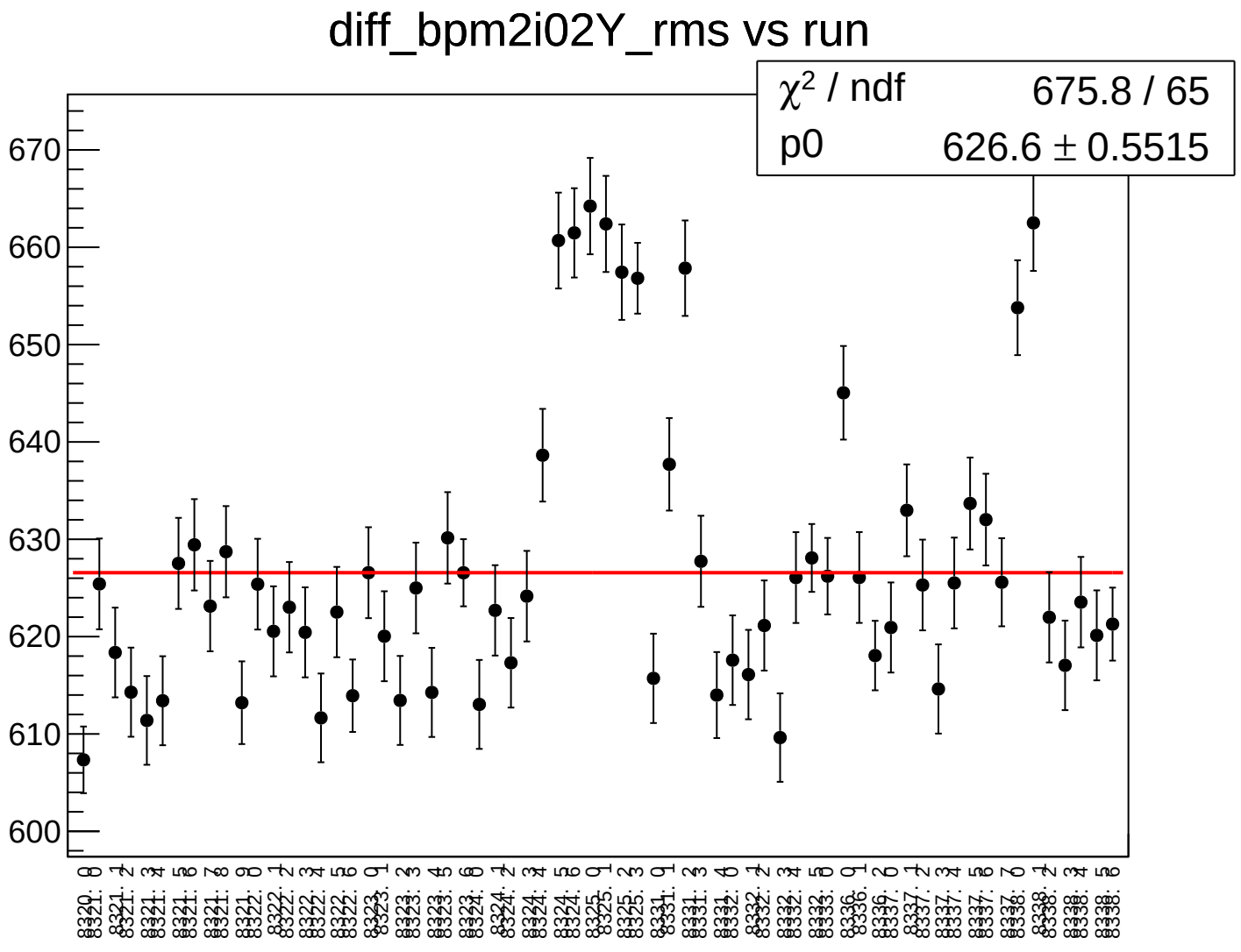

diff_bpm2i02X_mean vs run
χ² / ndf 200.8 / 65
p0 −163.1± 0.819
pull
Entries 66
Mean 189.4
Std Dev 168.2

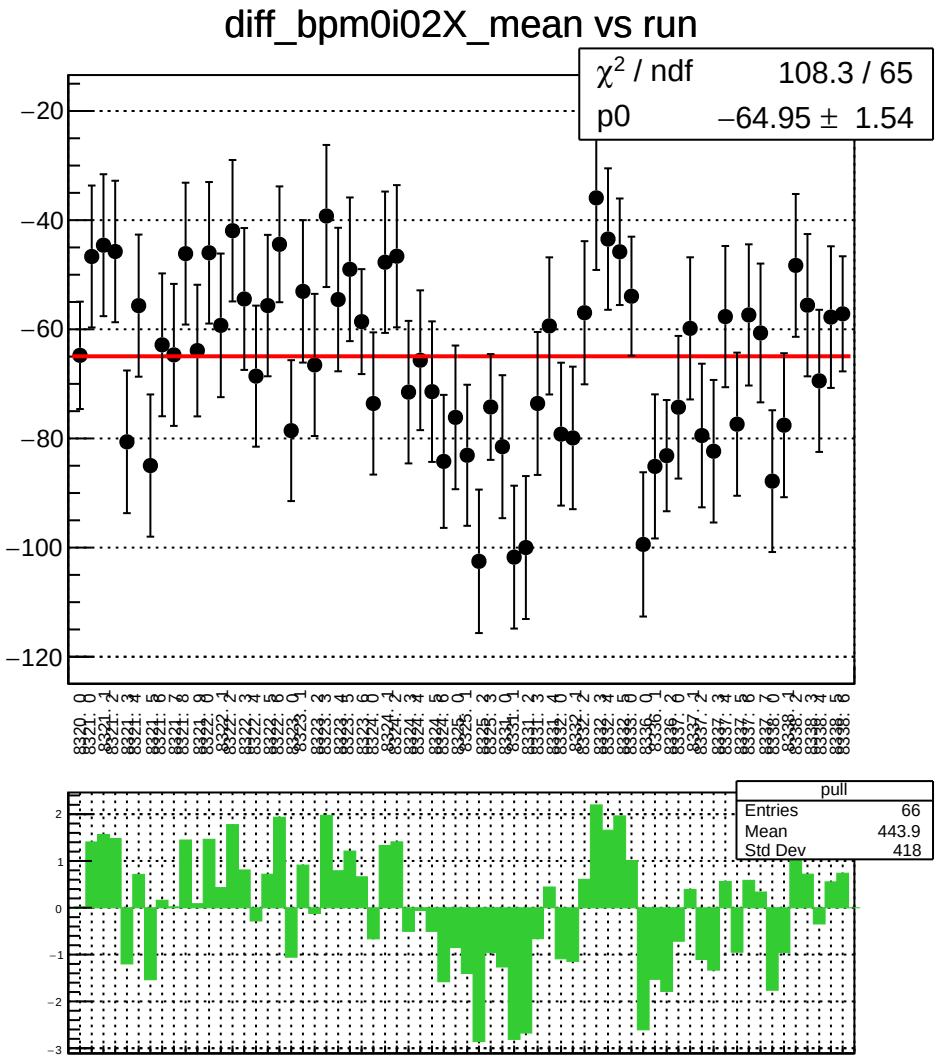

pull1D
Entries 66
Mean −0.04124
Std Dev 1.744

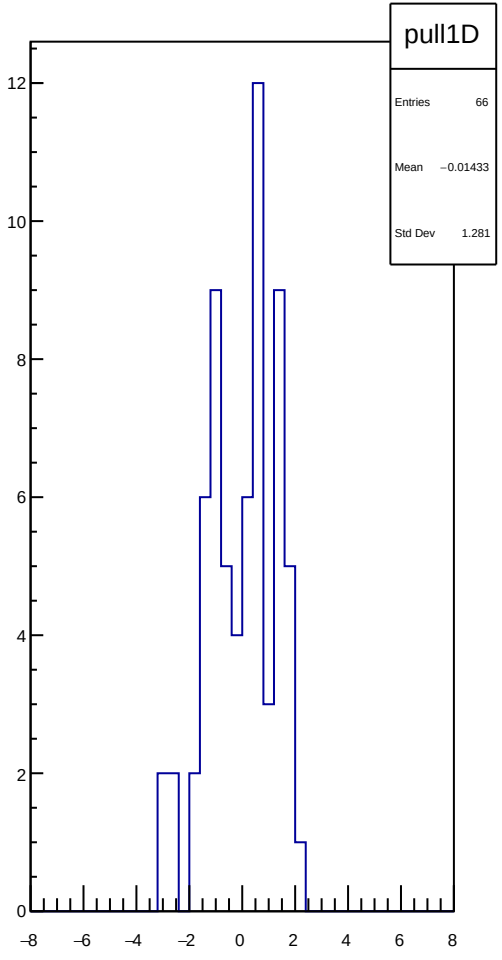

diff_bpm2i02X_rms vs run
χ² / ndf 952.5 / 65
p0 657.9 ± 0.5791
720
700
680
660
640
620

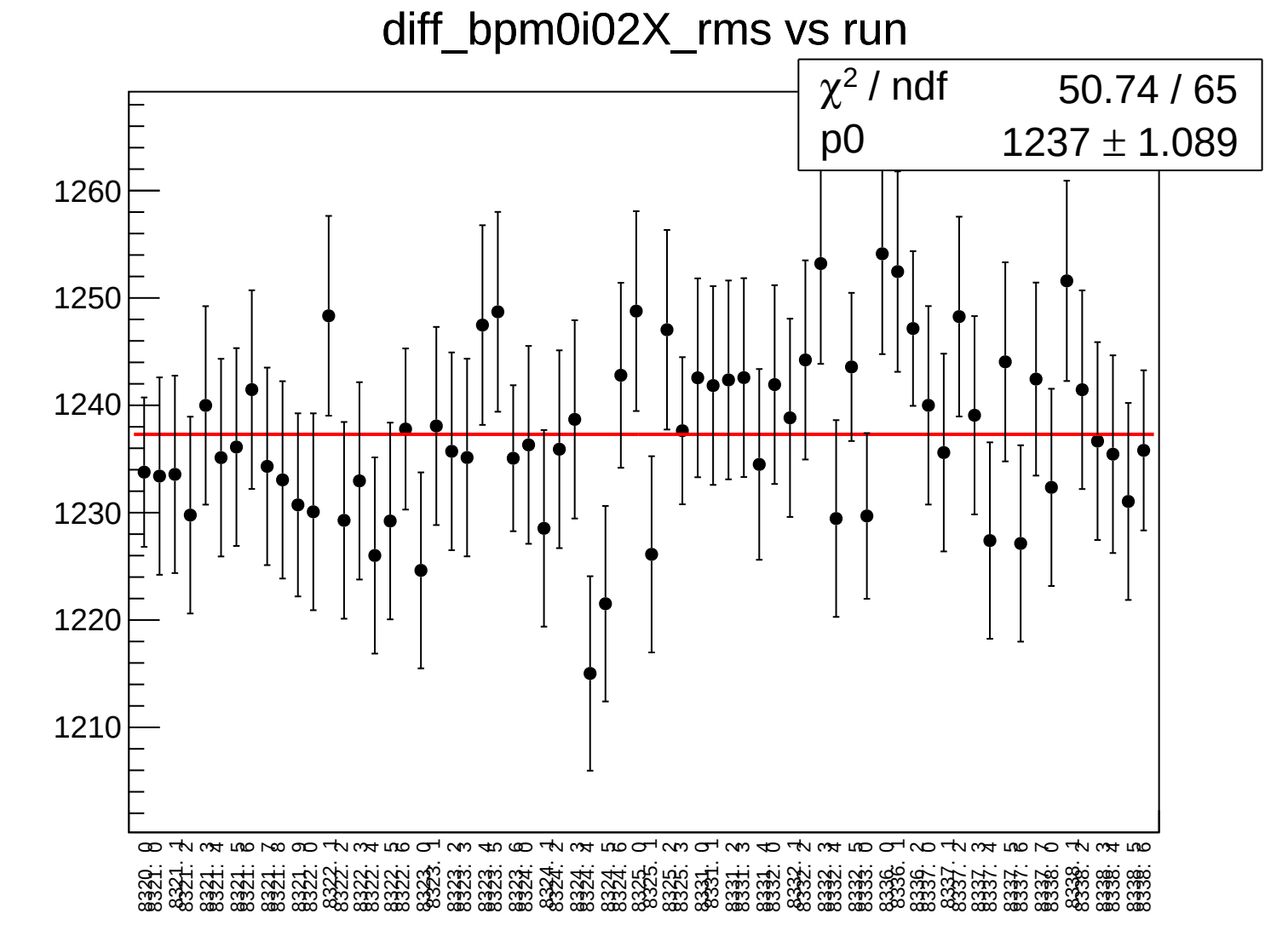

diff_bpm2i02Y_mean vs run
χ² / ndf 324.2 / 65
p0 76.19 ± 0.7799
pull
Entries 66
Mean 103.2
Std Dev 93.12

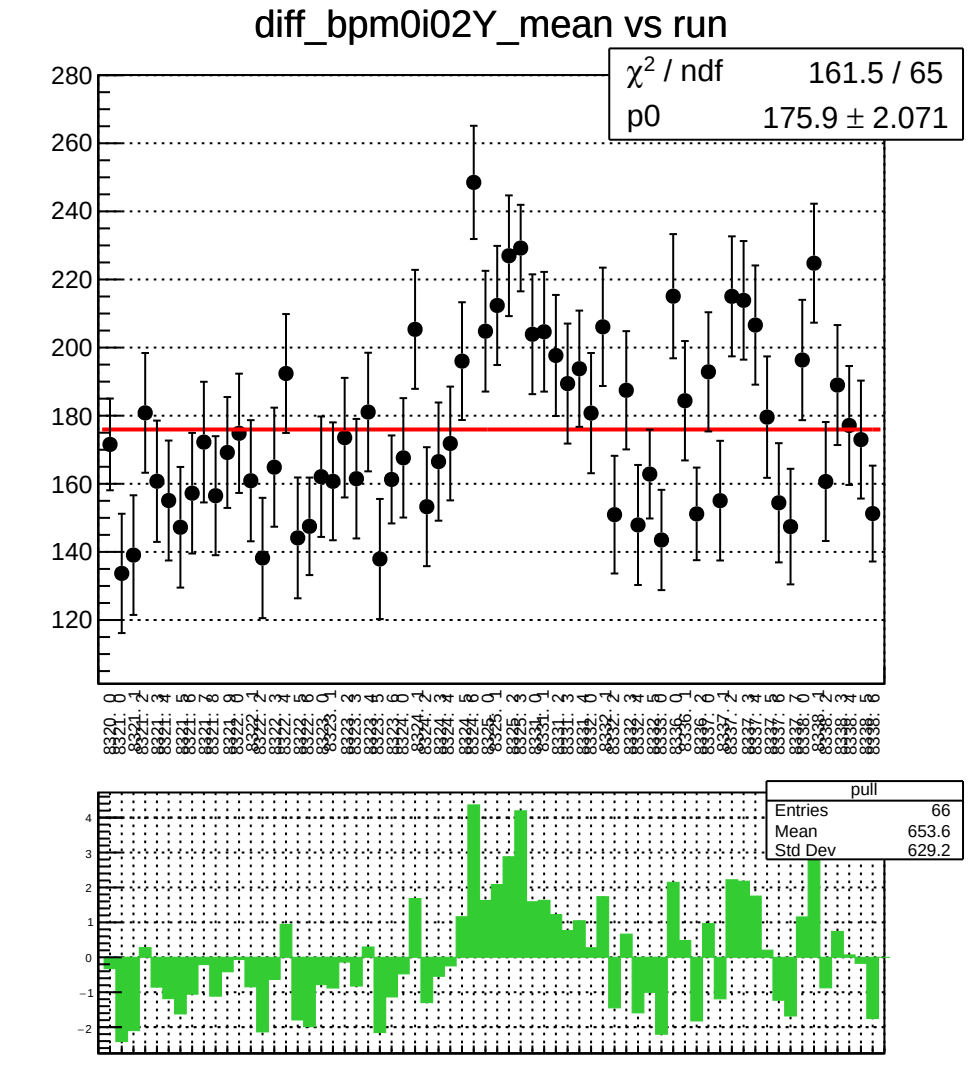

pull1D
Entries 66
Mean 0.06573
Std Dev 2.215

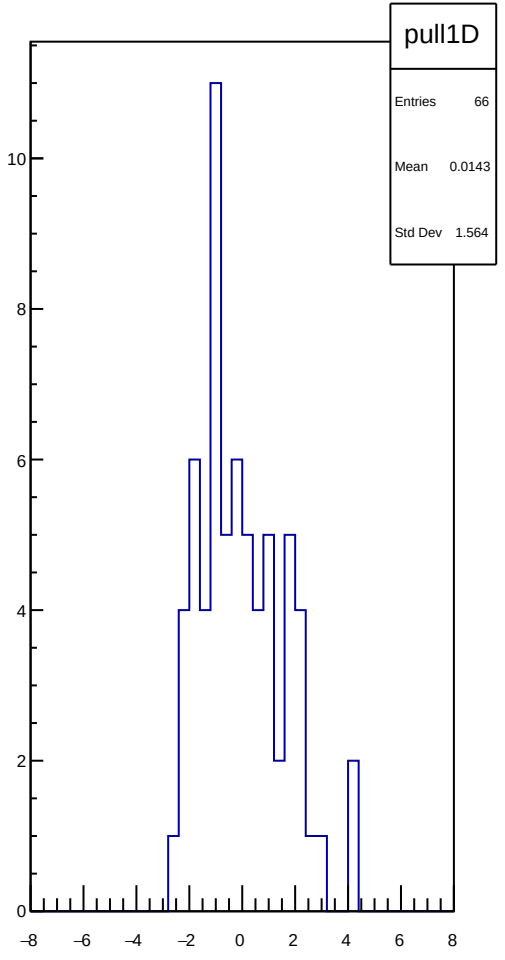

diff_bpm2i02Y_rms vs run
χ² / ndf 675.8 / 65
p0 626.6 ± 0.5515
670
660
650
640
630
620
610
600

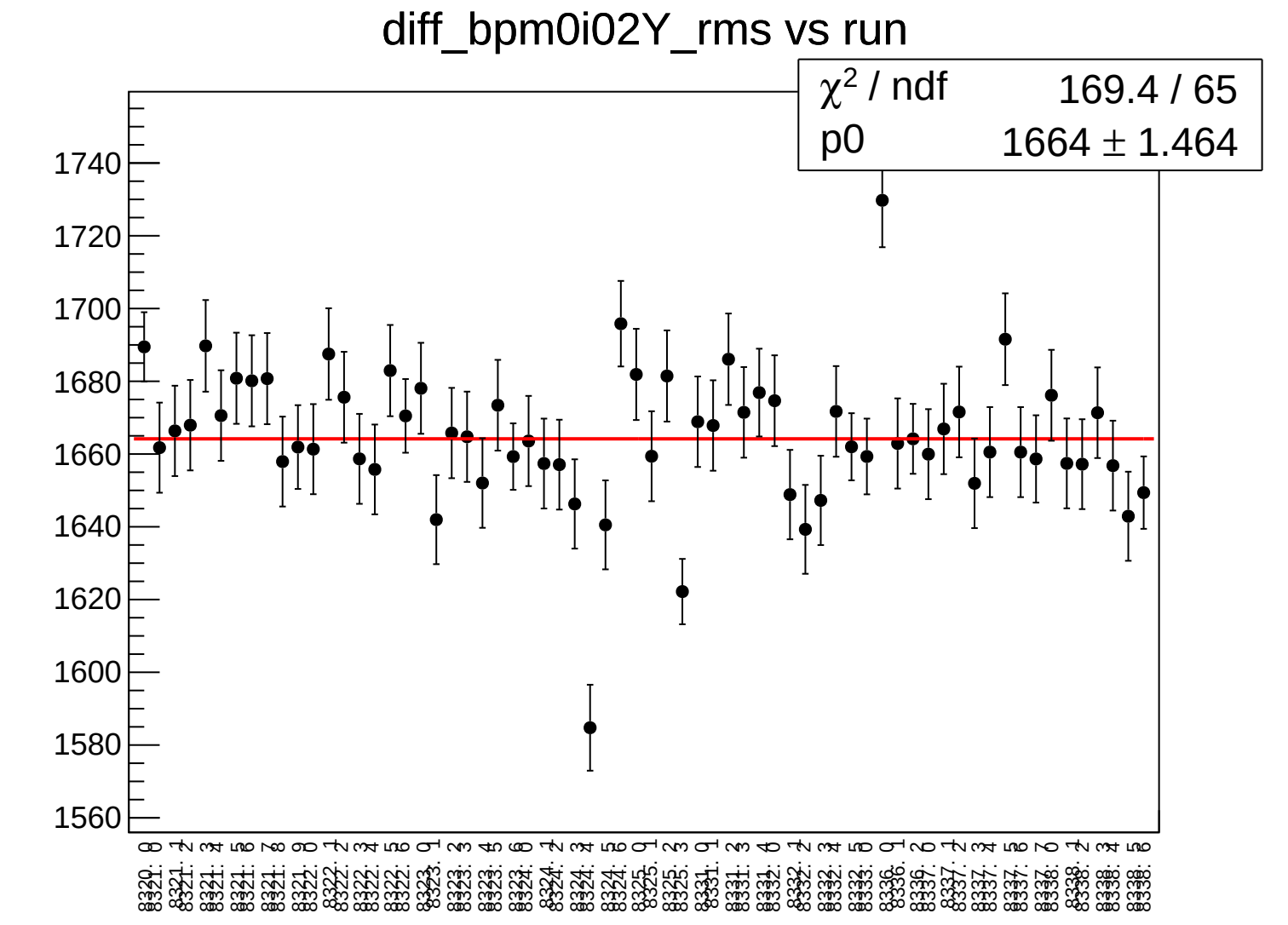

diff_bpm0i02X_mean vs run
χ² / ndf 108.3 / 65
p0 −64.95 ± 1.54
pull
Entries 66
Mean 443.9
Std Dev 418

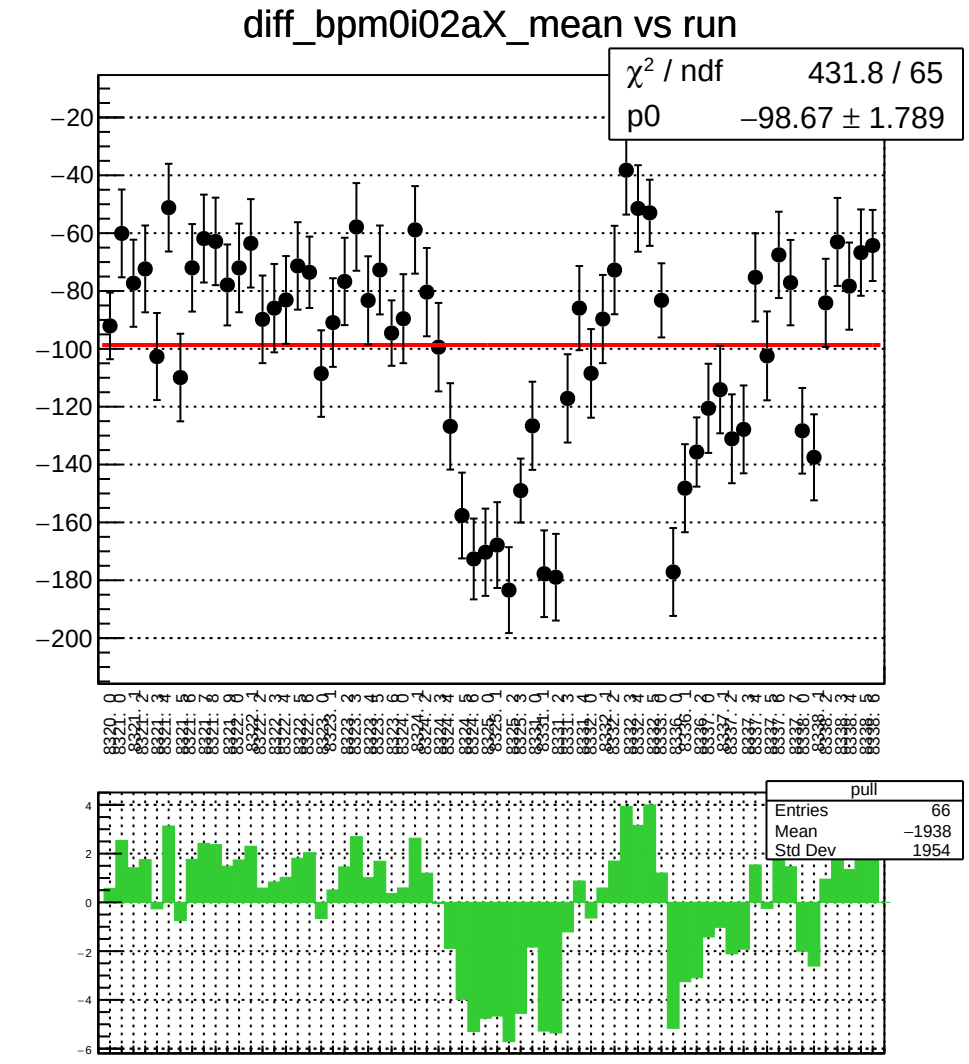

pull1D
Entries 66
Mean −0.01433
Std Dev 1.281

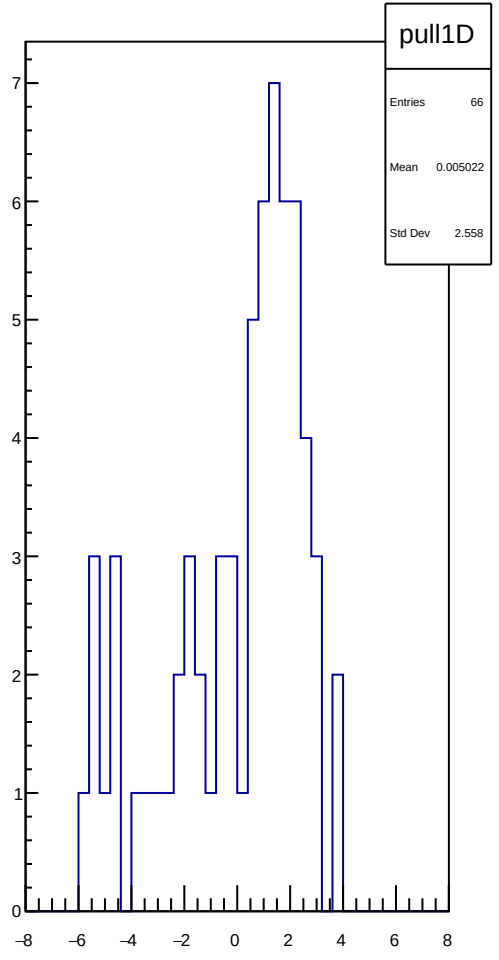

diff_bpm0i02X_rms vs run
χ² / ndf 50.74 / 65
p0 1237 ± 1.089
1260
1250
1240
1230
1220
1210

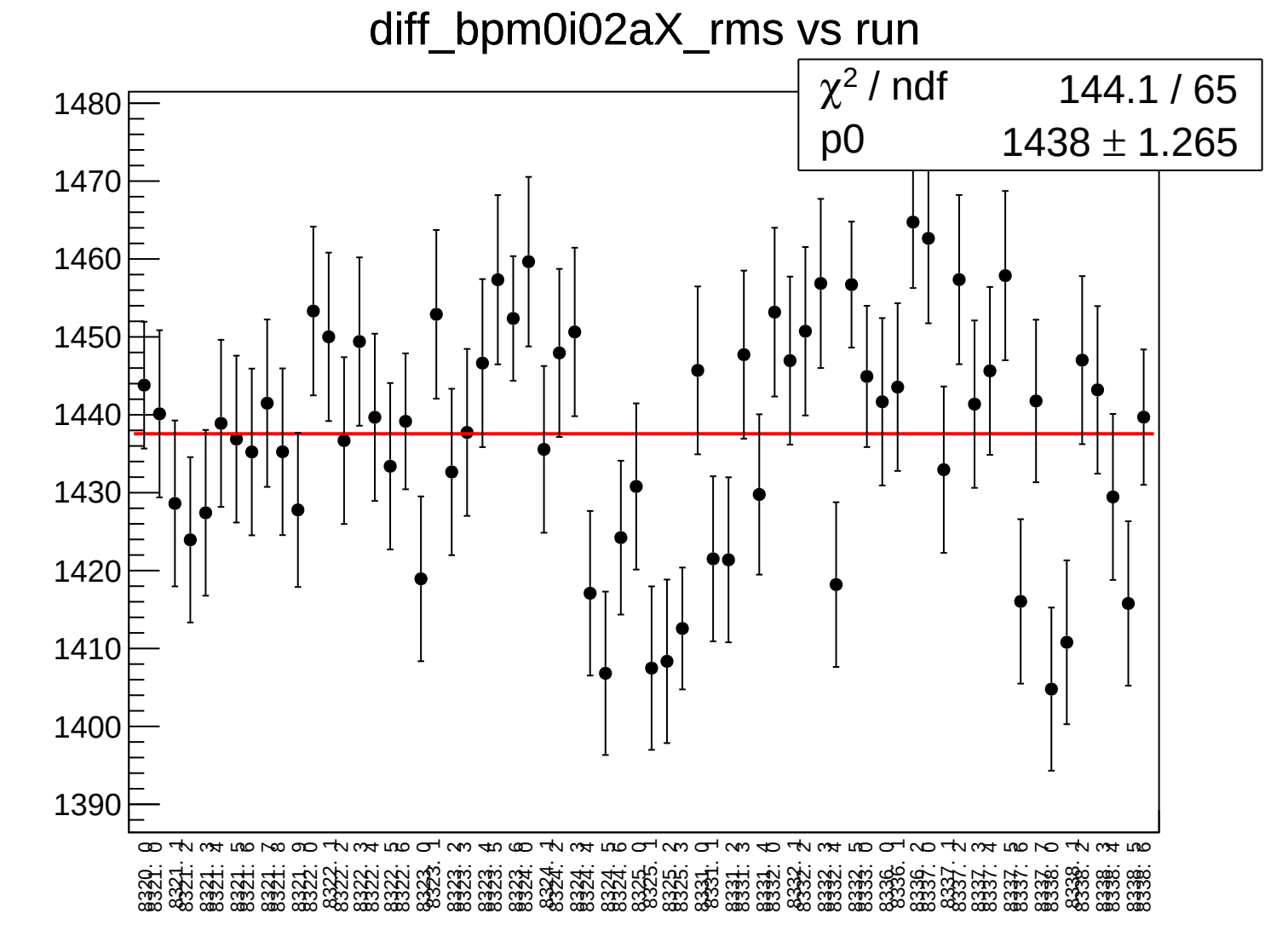

diff_bpm0i02Y_mean vs run
χ^2 / ndf 161.5 / 65
p0 175.9 ± 2.071
pull
Entries 66
Mean 653.6
Std Dev 629.2

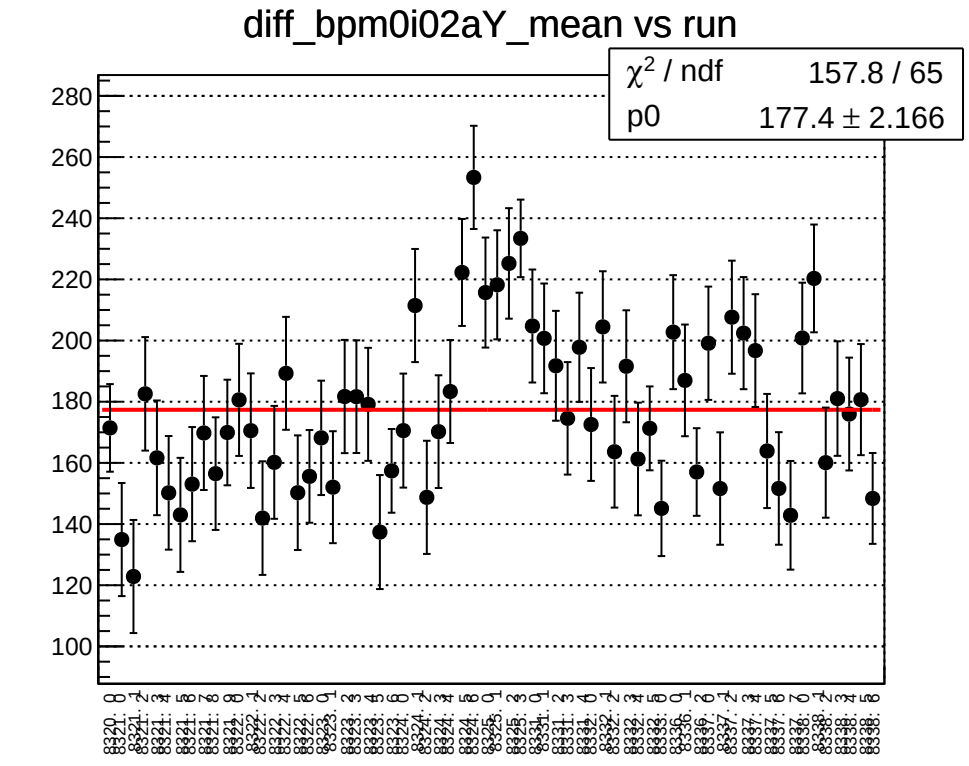

pull1D
Entries 66
Mean 0.0143
Std Dev 1.564

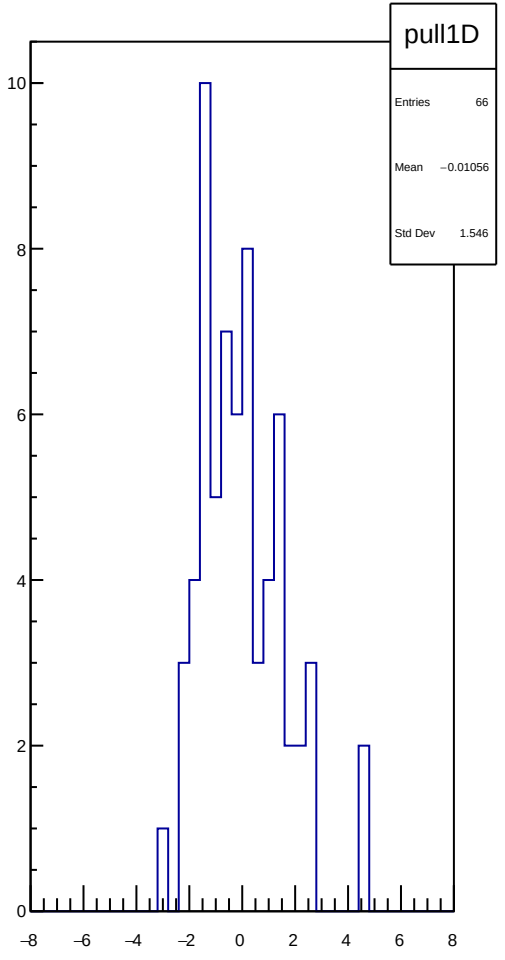

diff_bpm0i02Y_rms vs run
χ² / ndf 169.4 / 65
p0 1664 ± 1.464
1740
1720
1700
1680
1660
1640
1620
1600
1580
1560

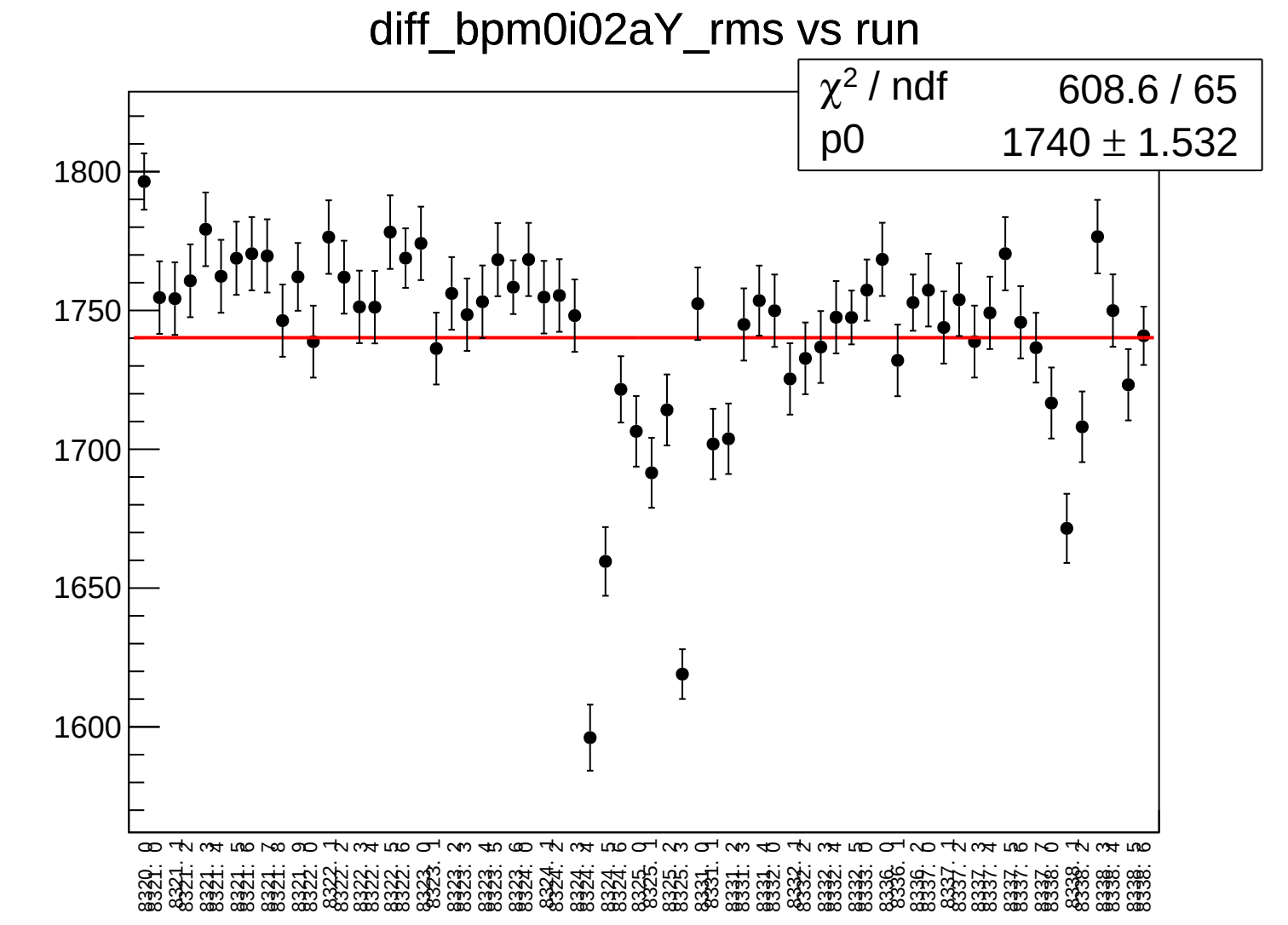

diff_bpm0i02aX_mean vs run
χ² / ndf 431.8 / 65
p0 −98.67 ± 1.789
pull
Entries 66
Mean −1938
Std Dev 1954

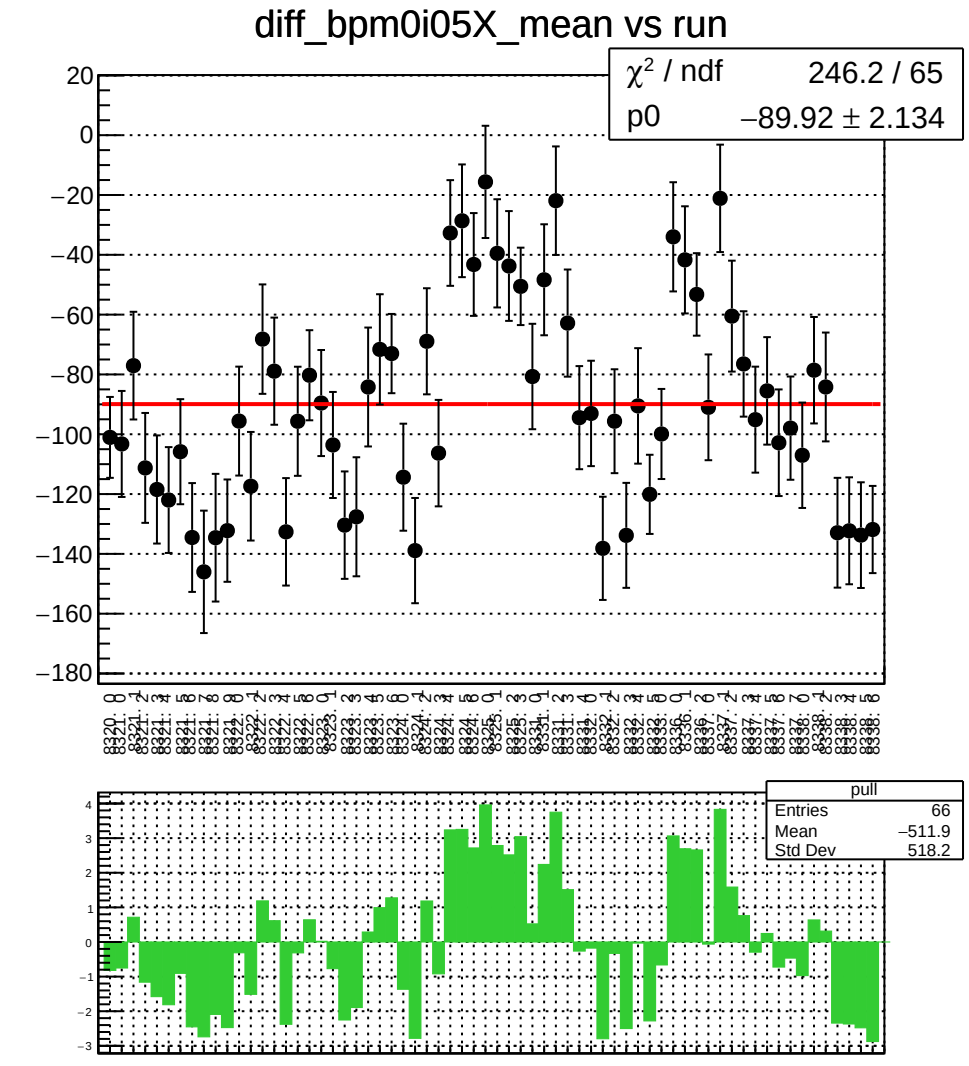

pull1D
Entries 66
Mean 0.005022
Std Dev 2.558

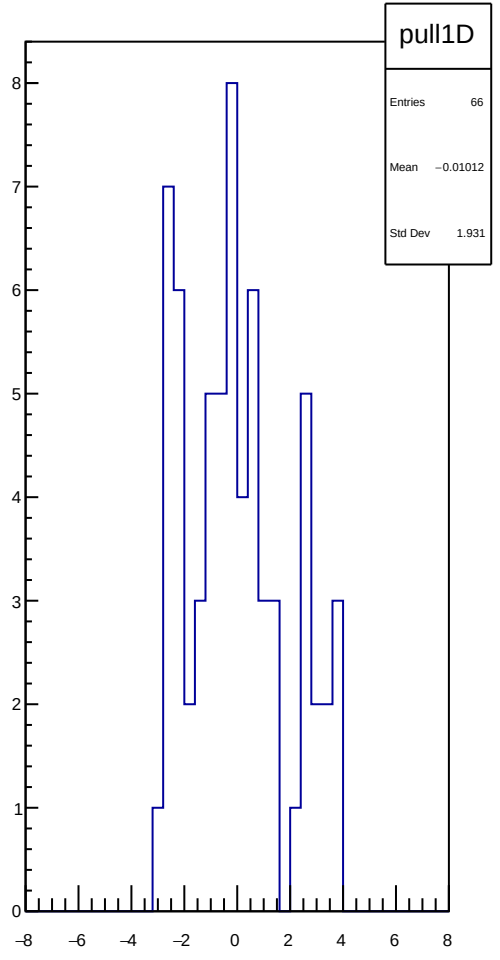

diff_bpm0i02aX_rms vs run
χ² / ndf 144.1 / 65
p0 1438 ± 1.265
1480
1470
1460
1450
1440
1430
1420
1410
1400
1390

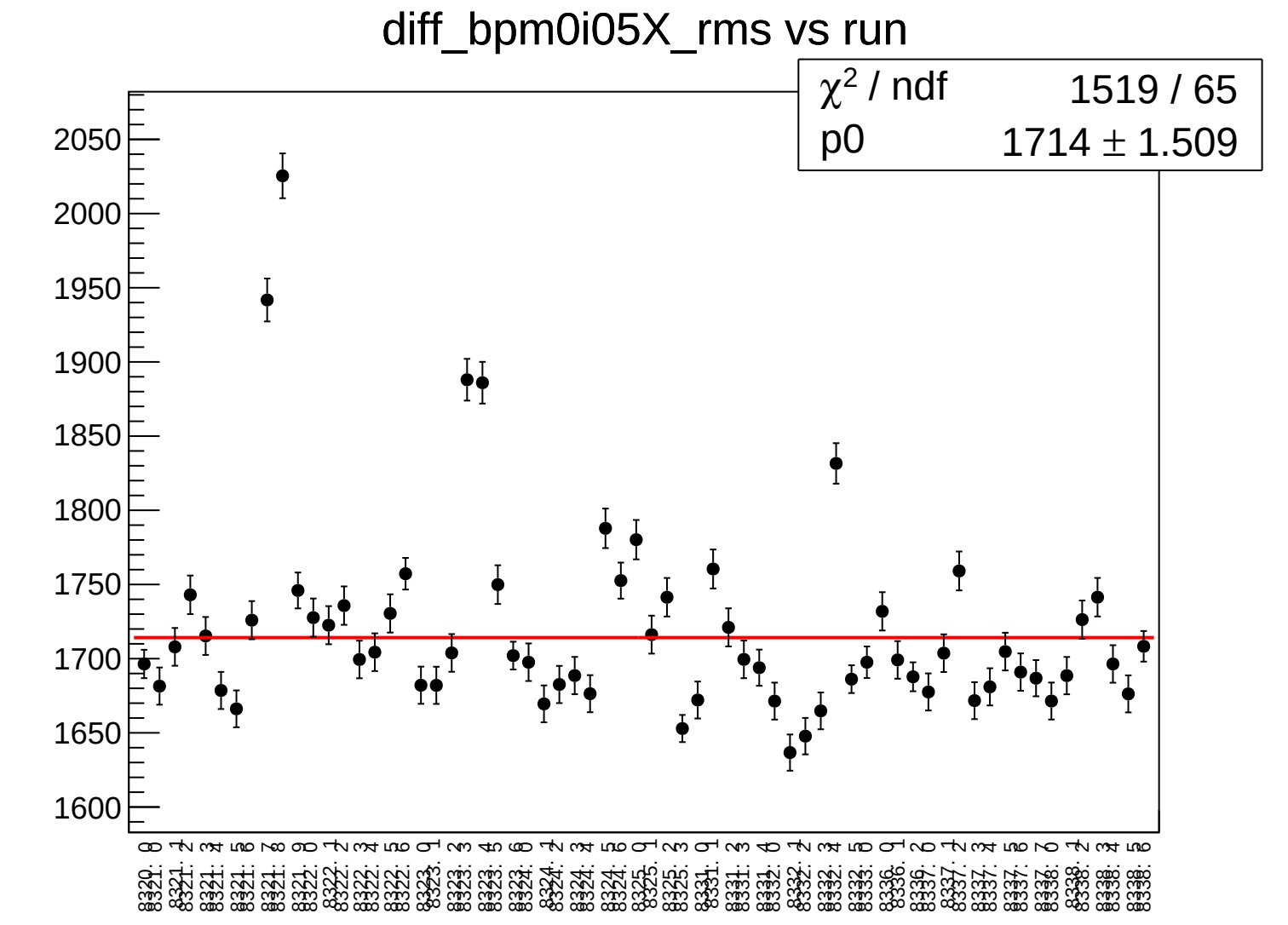

diff_bpm0i02aY_mean vs run
χ^2 / ndf 157.8 / 65
p0 177.4 ± 2.166
pull
Entries 66
Mean −685.5
Std Dev 705.1

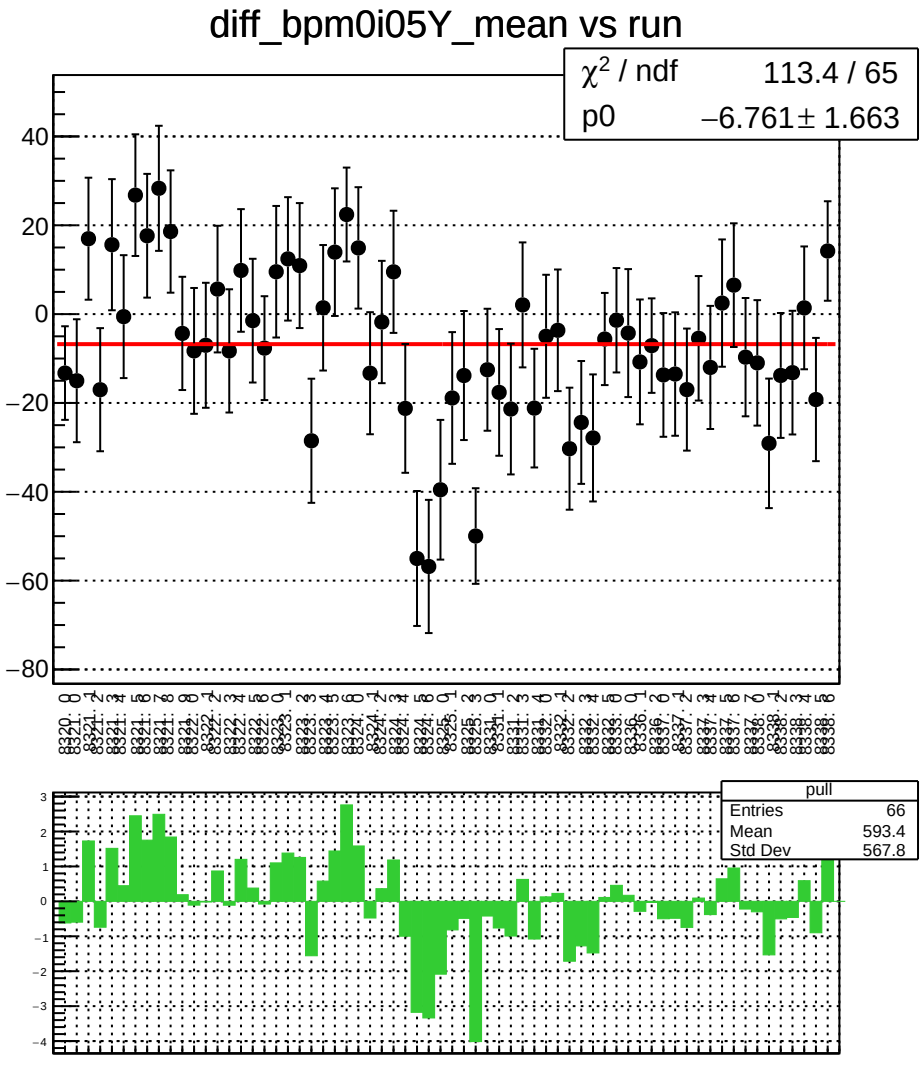

pull1D
Entries 66
Mean −0.01056
Std Dev 1.546

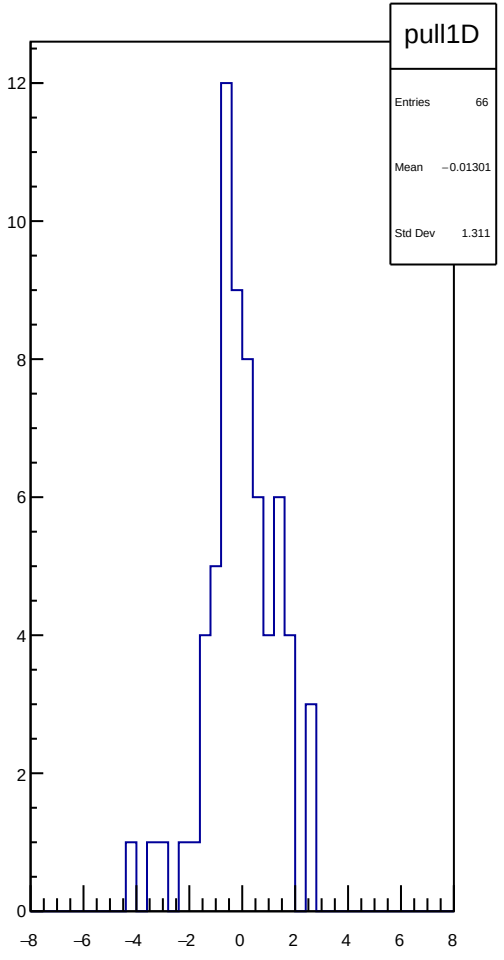

diff_bpm0i02aY_rms vs run
χ² / ndf 608.6 / 65
p0 1740 ± 1.532
1800
1750
1700
1650
1600

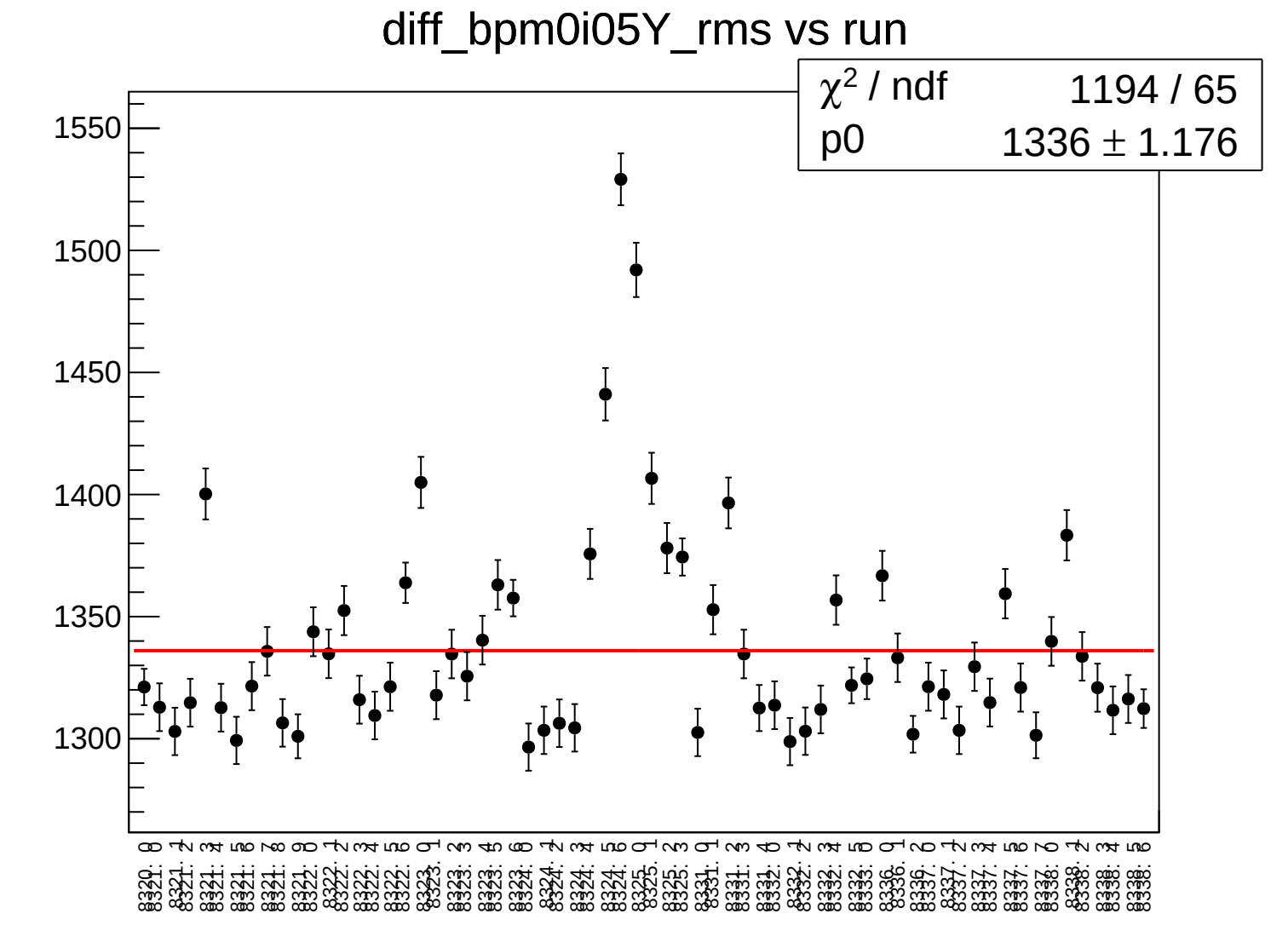

diff_bpm0i05X_mean vs run
χ² / ndf 246.2 / 65
p0 −89.92 ± 2.134
pull
Entries 66
Mean −511.9
Std Dev 518.2

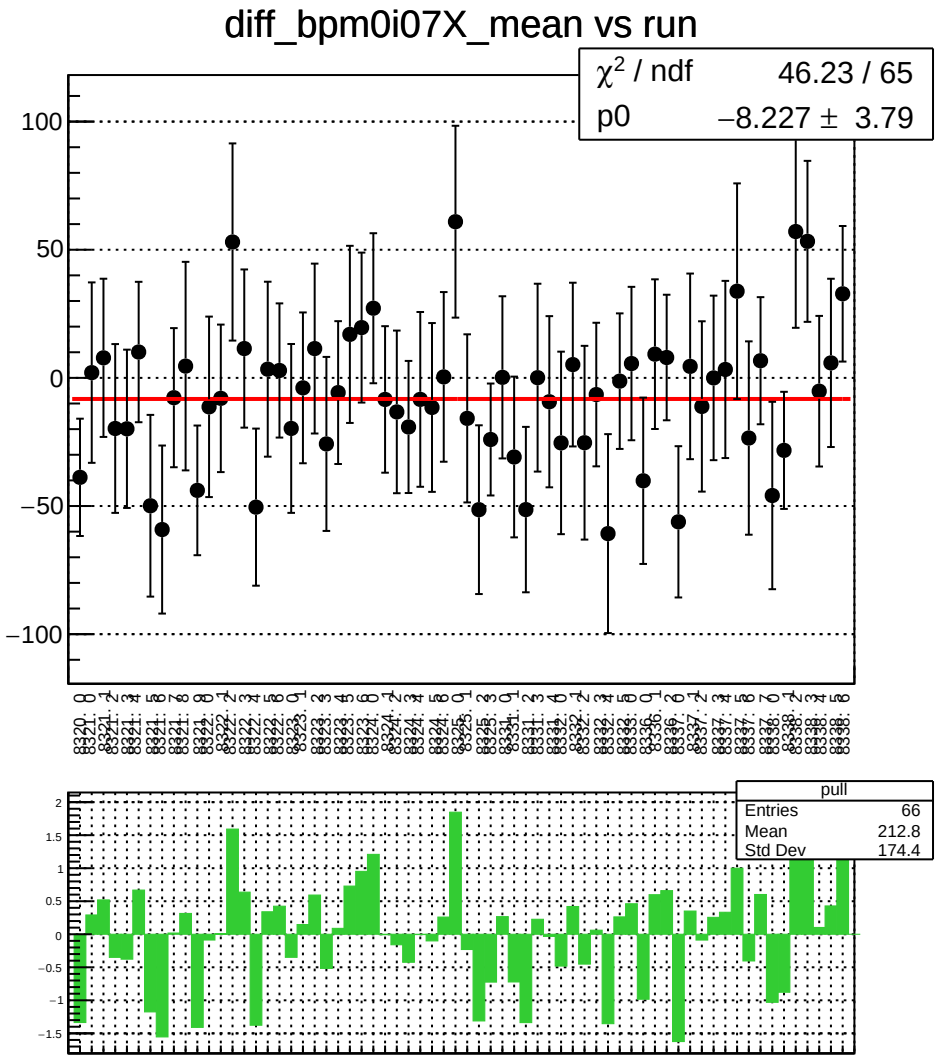

pull1D
Entries 66
Mean −0.01012
Std Dev 1.931

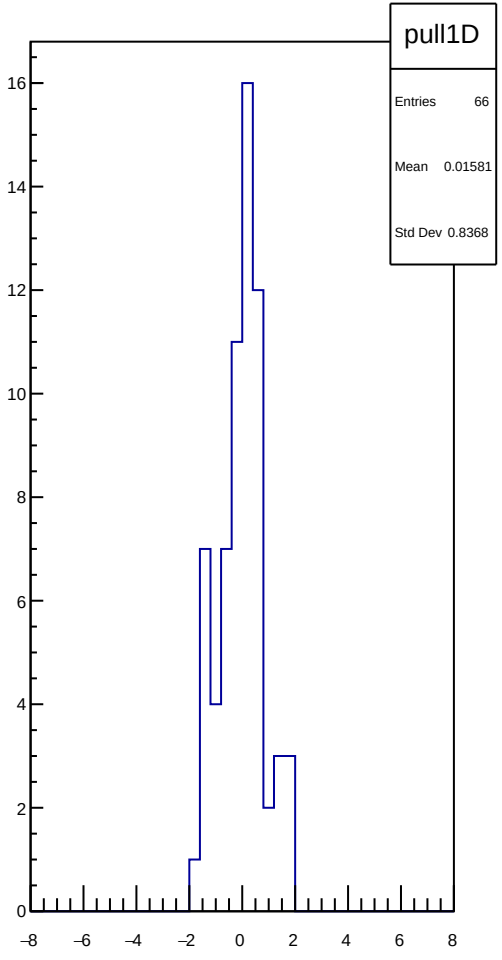

diff_bpm0i05X_rms vs run
χ² / ndf 1519 / 65
p0 1714 ± 1.509
2050
2000
1950
1900
1850
1800
1750
1700
1650
1600

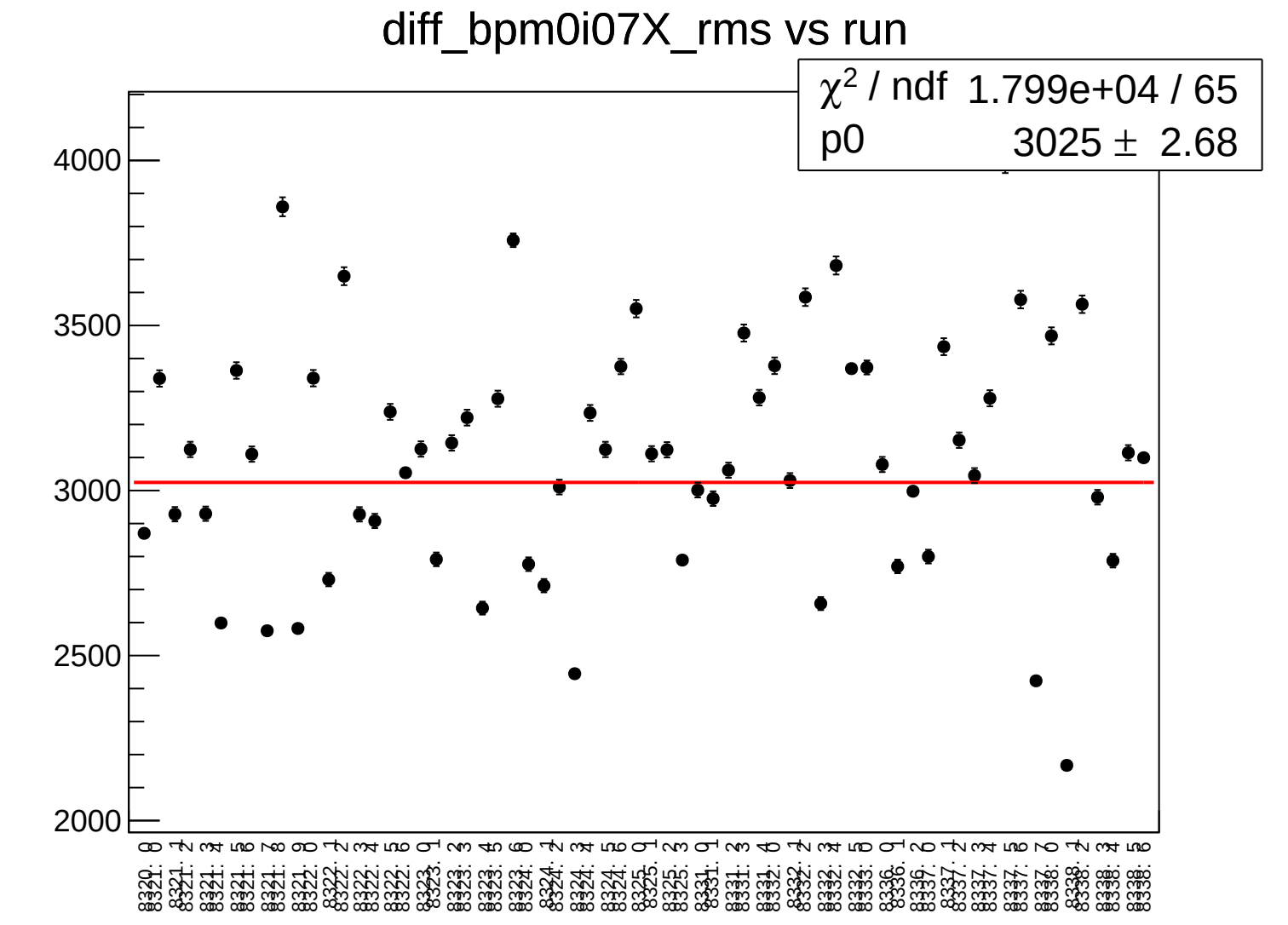

diff_bpm0i05Y_mean vs run
χ² / ndf 113.4 / 65
p0 −6.761 ± 1.663
pull
Entries 66
Mean 593.4
Std Dev 567.8

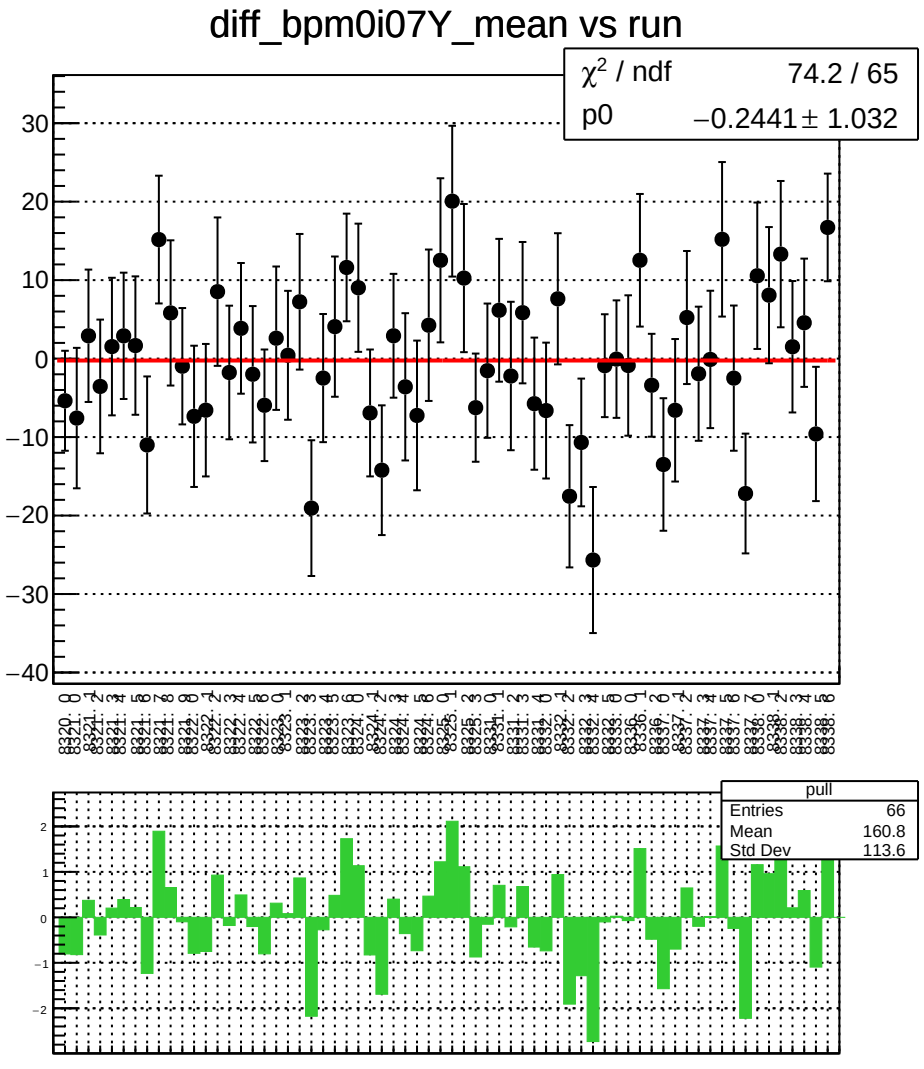

pull1D
Entries 66
Mean −0.01301
Std Dev 1.311

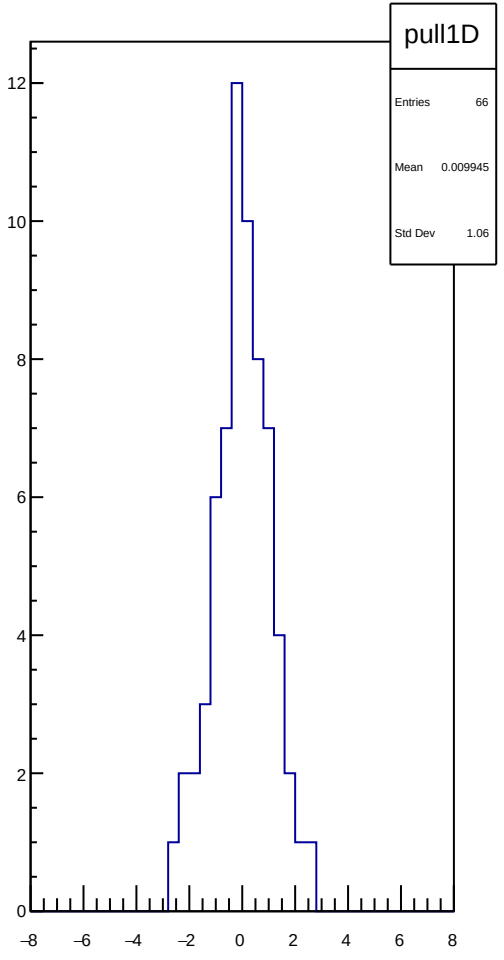

diff_bpm0i05Y_rms vs run
χ² / ndf 1194 / 65
p0 1336 ± 1.176
1550
1500
1450
1400
1350
1300

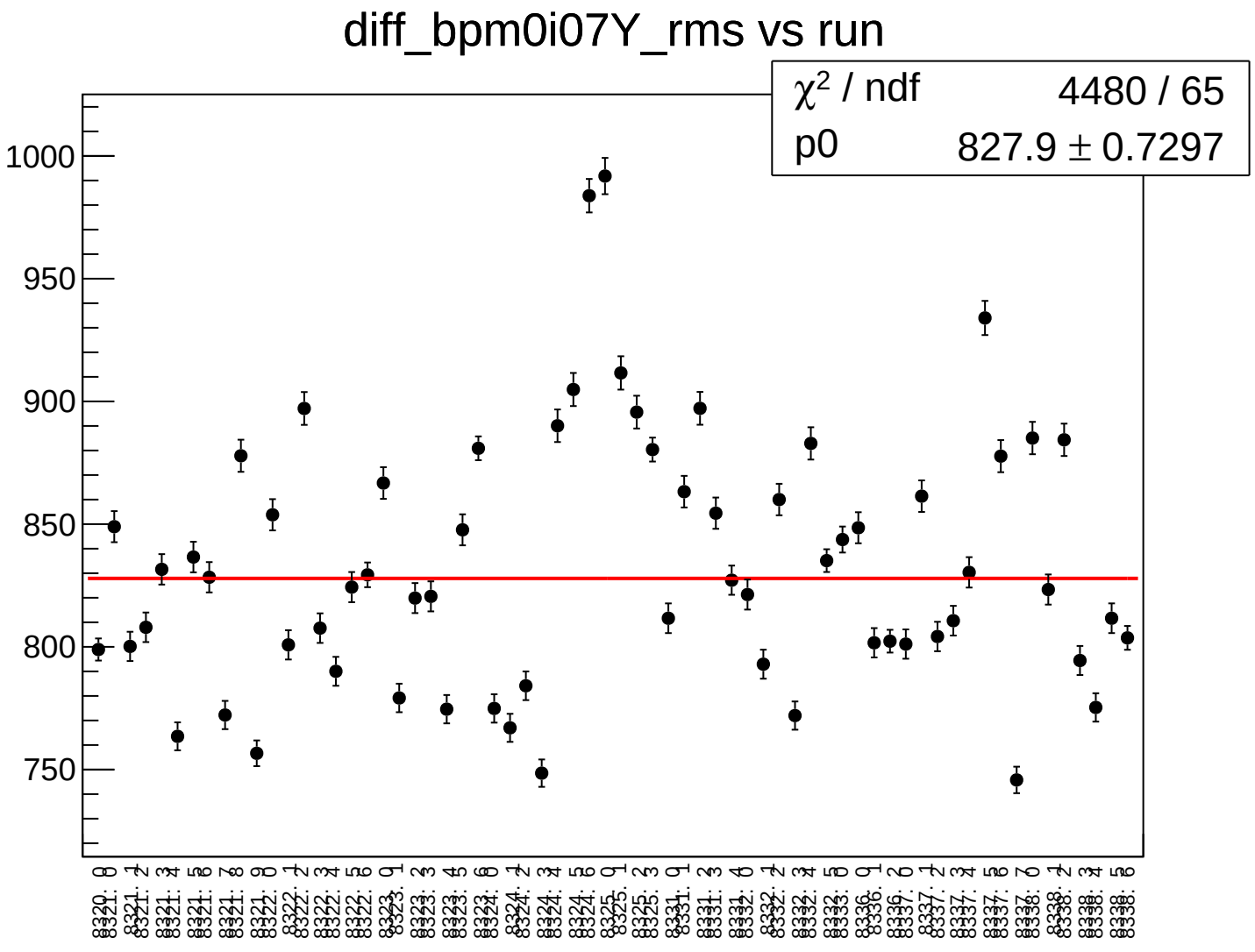

diff_bpm0i07X_mean vs run
χ² / ndf 46.23 / 65
p0 −8.227 ± 3.79
pull
Entries 66
Mean 212.8
Std Dev 174.4

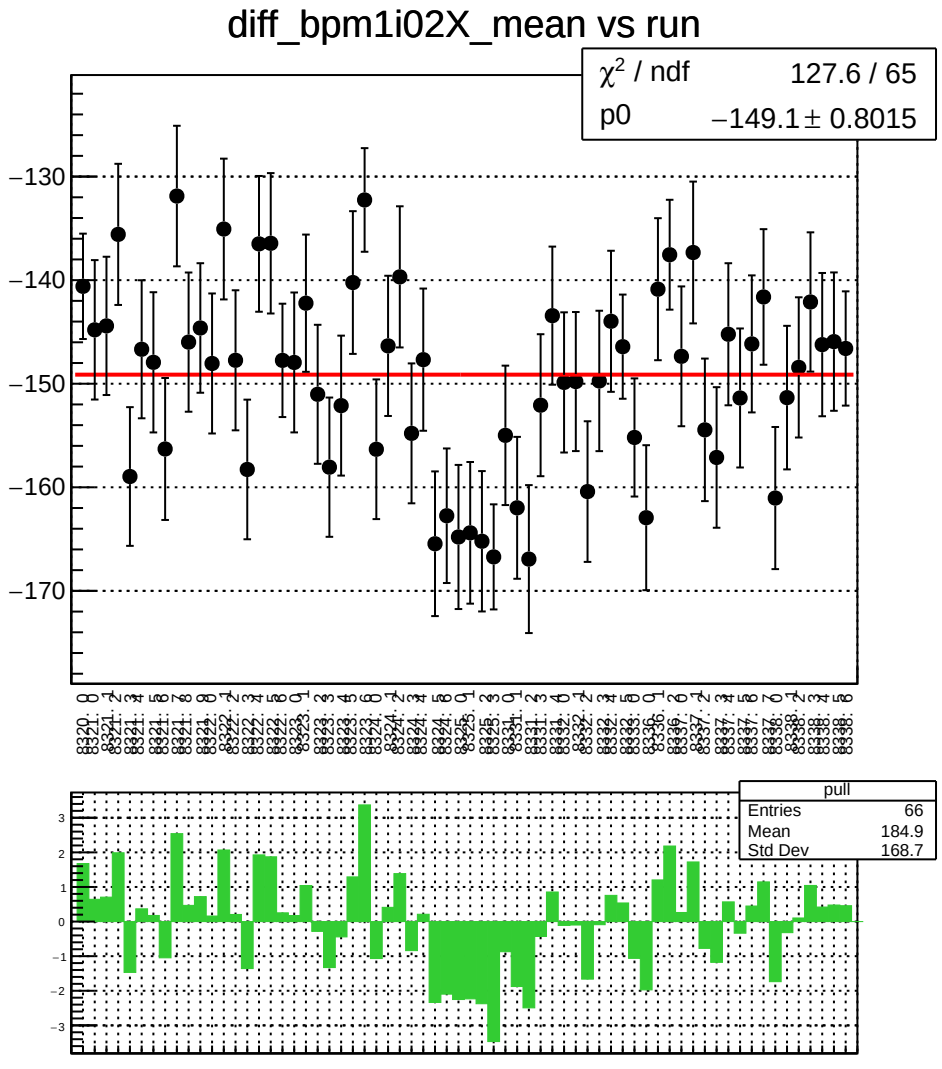

pull1D
Entries 66
Mean 0.01581
Std Dev 0.8368

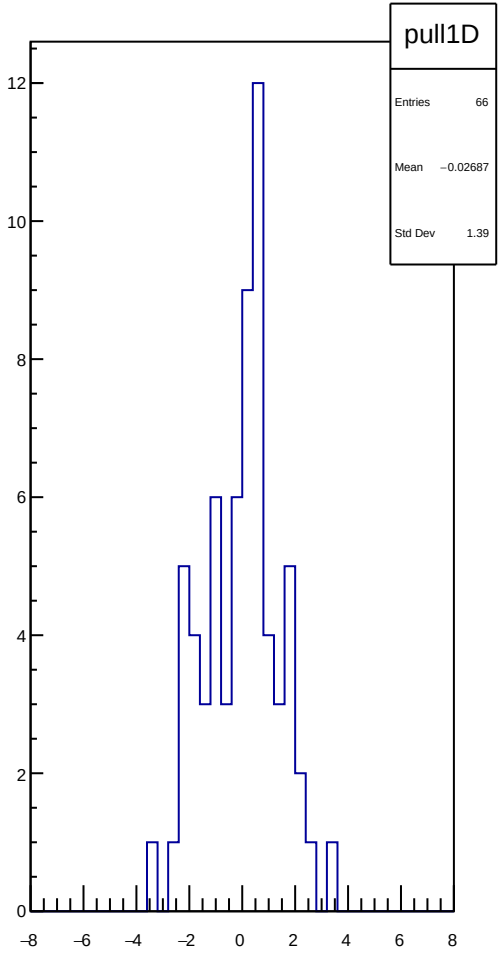

diff_bpm0i07X_rms vs run
χ² / ndf 1.799e+04 / 65
p0 3025 ± 2.68
4000
3500
3000
2500
2000

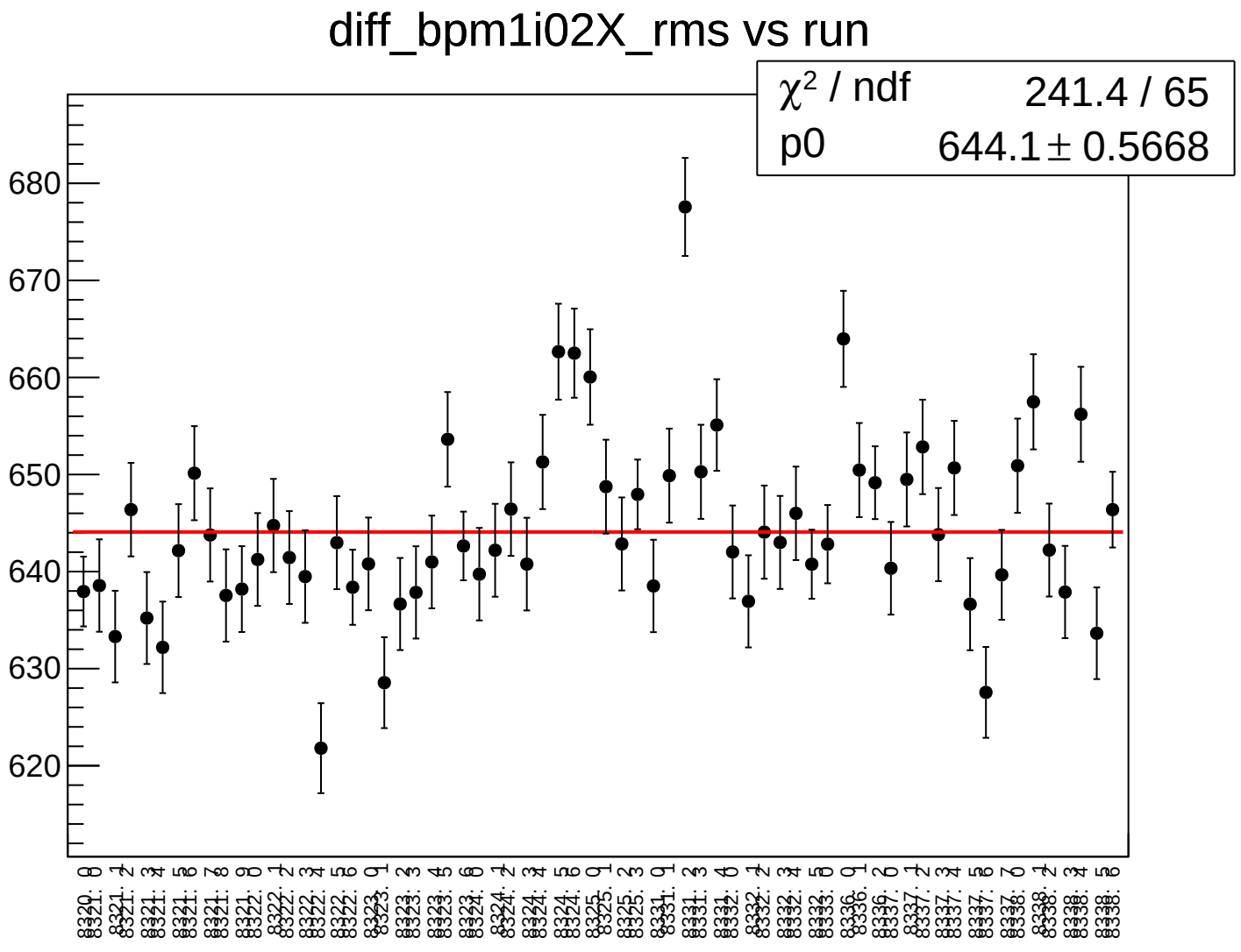

diff_bpm0i07Y_mean vs run
χ^2 / ndf 74.2 / 65
p0 −0.2441 ± 1.032
pull
Entries 66
Mean 160.8
Std Dev 113.6

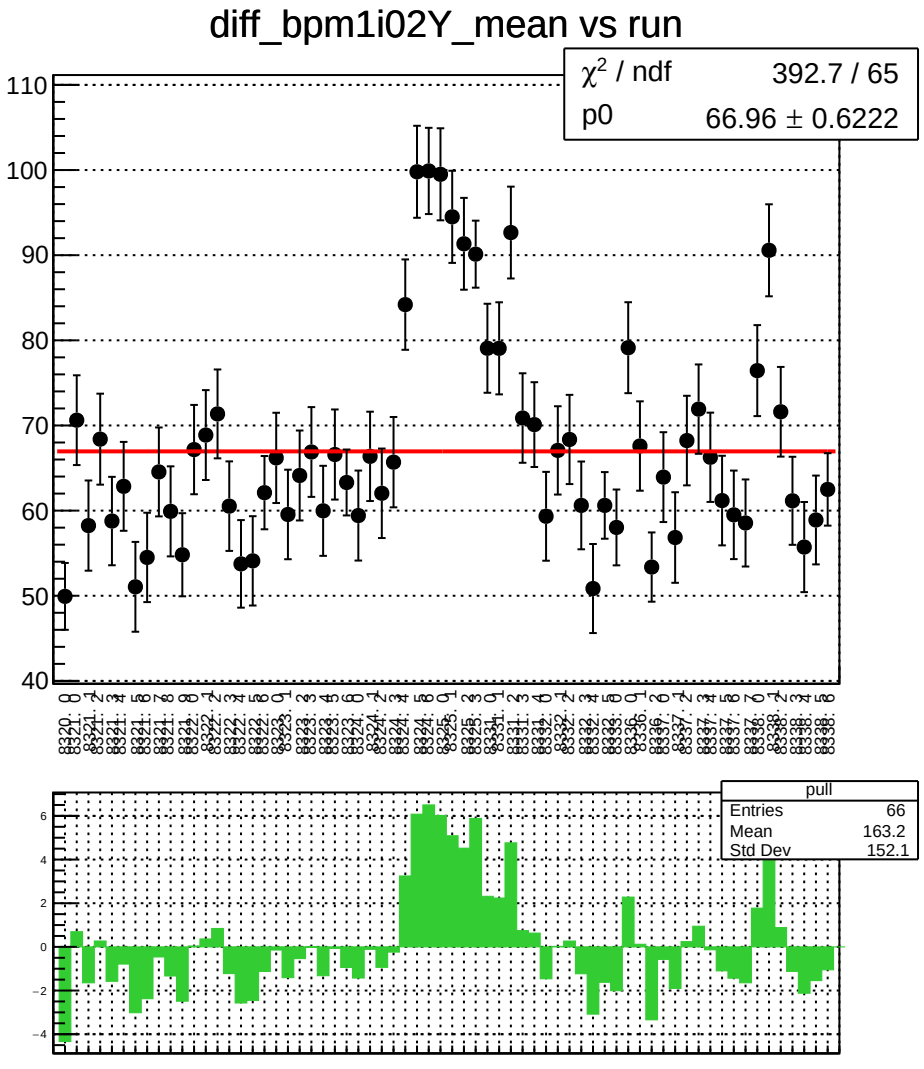

pull1D
Entries 66
Mean 0.009945
Std Dev 1.06

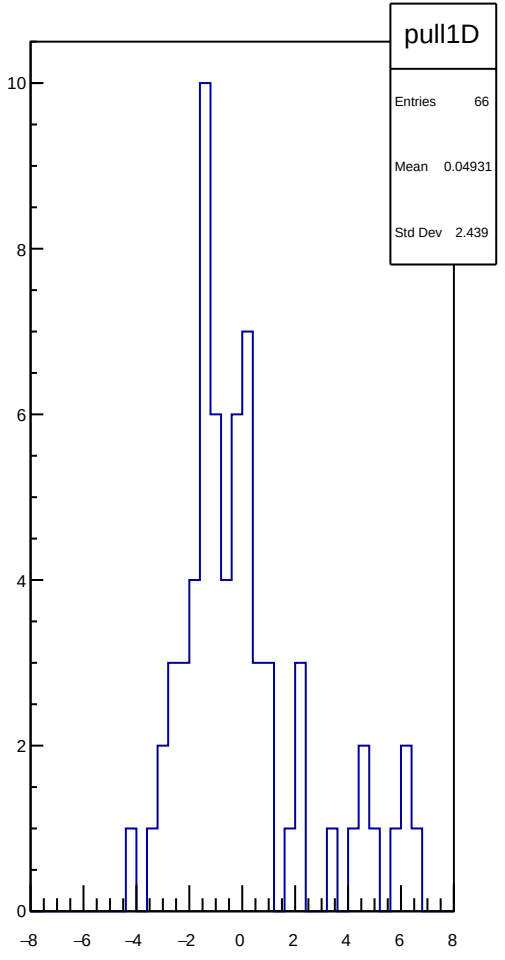

diff_bpm0i07Y_rms vs run
χ² / ndf 4480 / 65
p0 827.9 ± 0.7297
1000
950
900
850
800
750

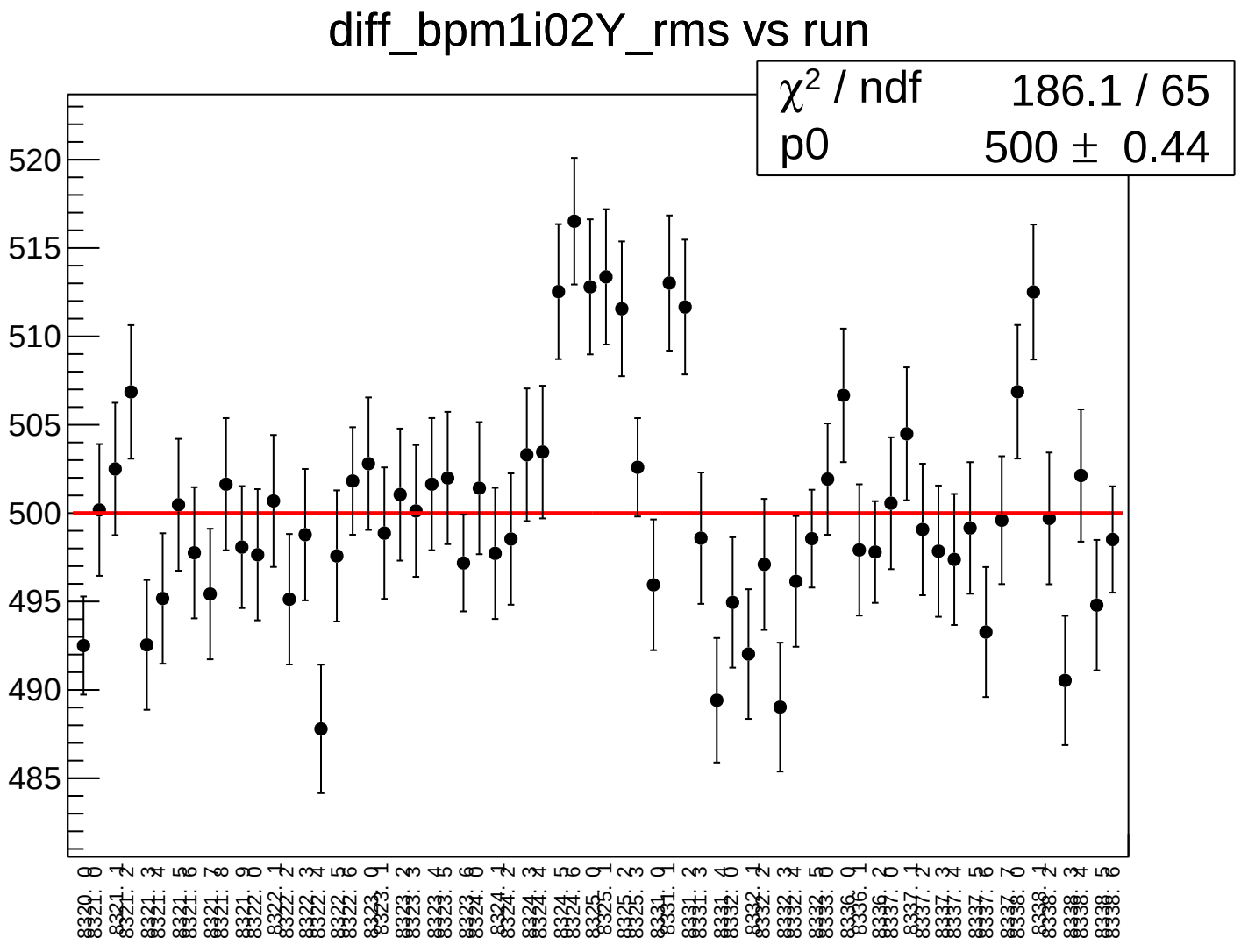

diff_bpm1i02X_mean vs run
χ^2 / ndf 127.6 / 65
p0 −149.1 ± 0.8015
−130
−140
−150
−160
−170
pull
Entries 66
Mean 184.9
Std Dev 168.7
3
2
1
0
−1
−2
−3

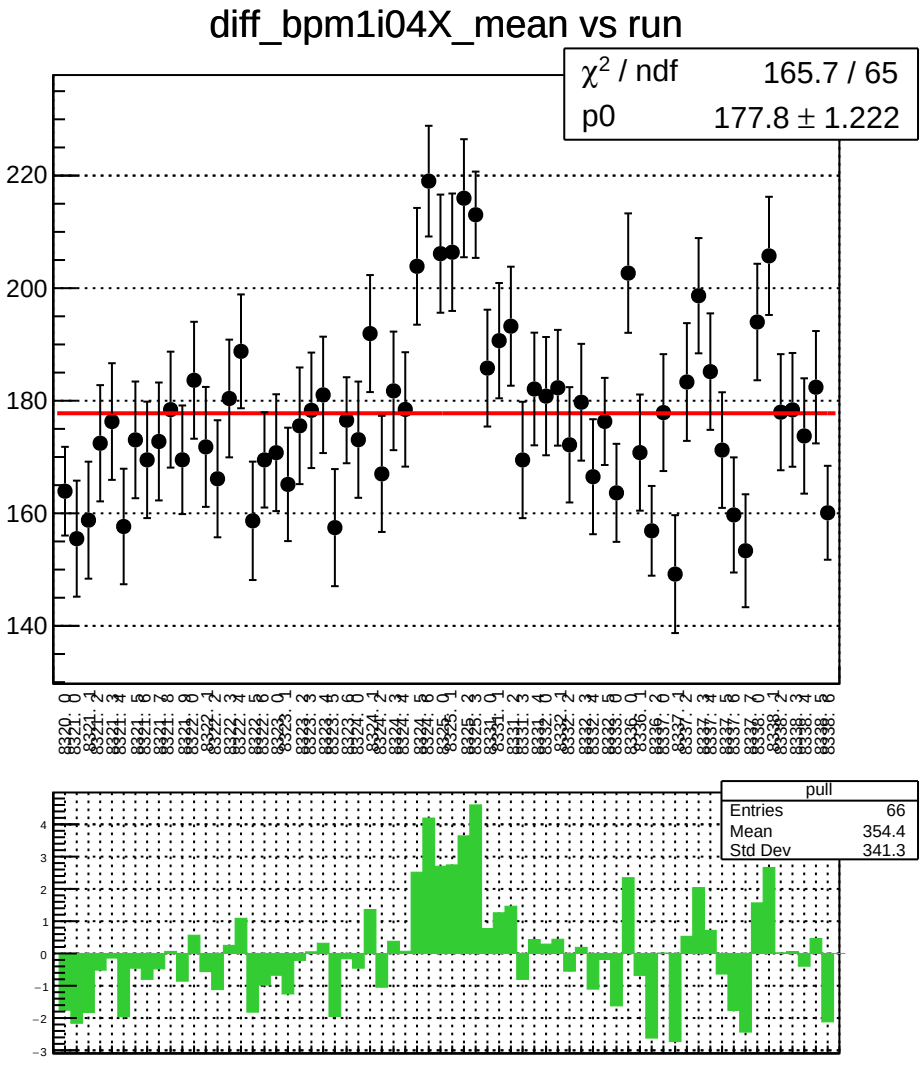

pull1D
Entries 66
Mean −0.02687
Std Dev 1.39
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

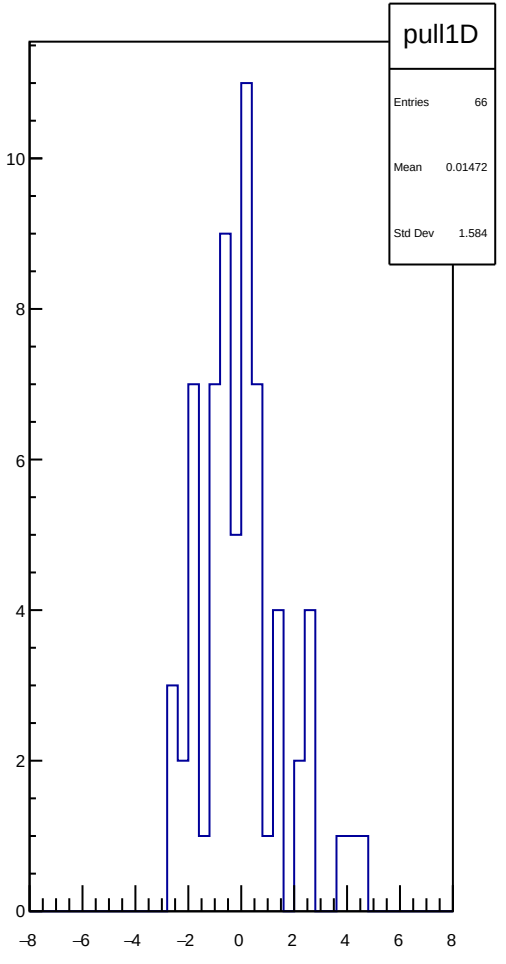

diff_bpm1i02X_rms vs run
χ² / ndf 241.4 / 65
p0 644.1 ± 0.5668
680
670
660
650
640
630
620

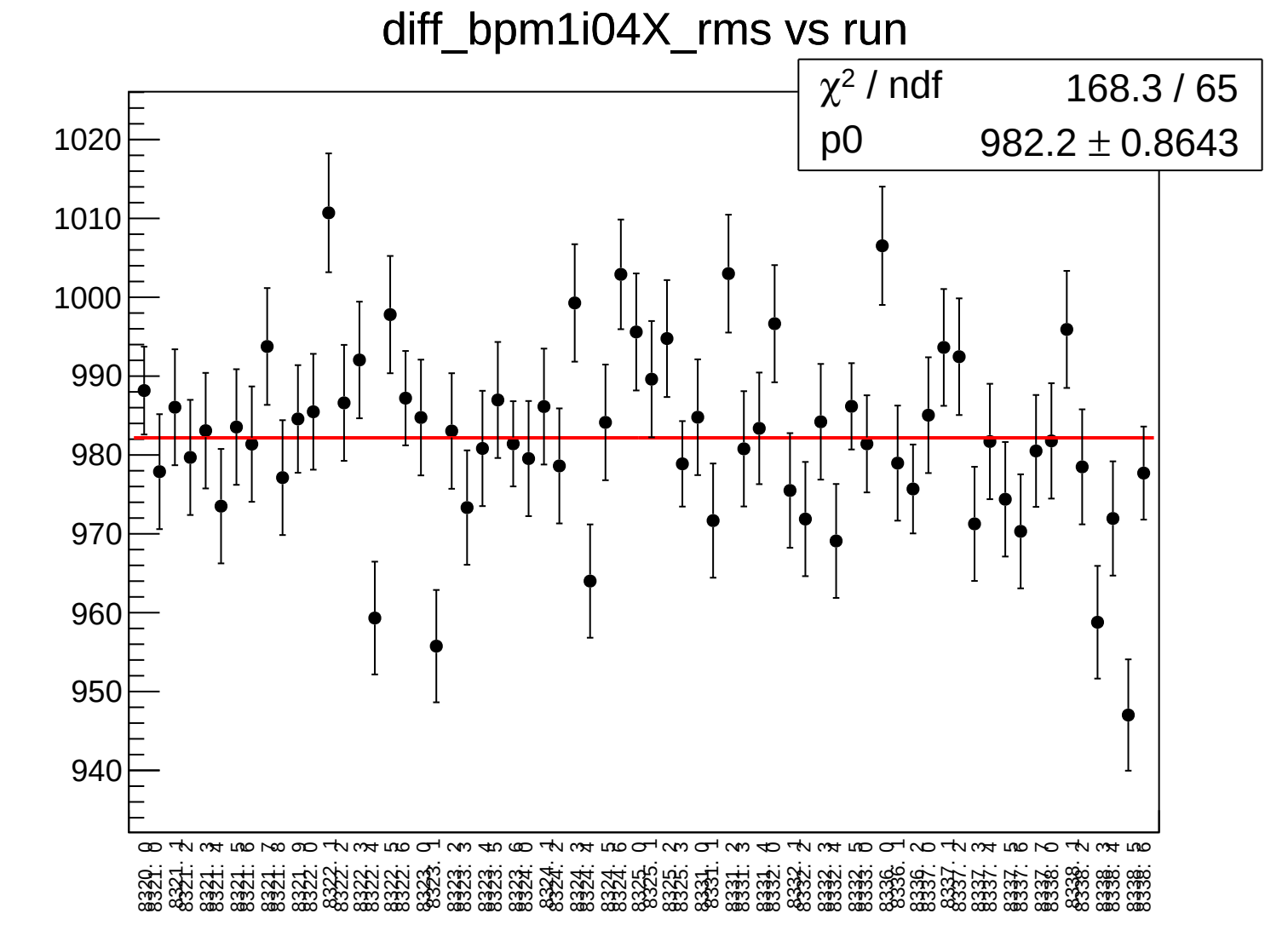

diff_bpm1i02Y_mean vs run
χ² / ndf 392.7 / 65
p0 66.96 ± 0.6222
pull
Entries 66
Mean 163.2
Std Dev 152.1

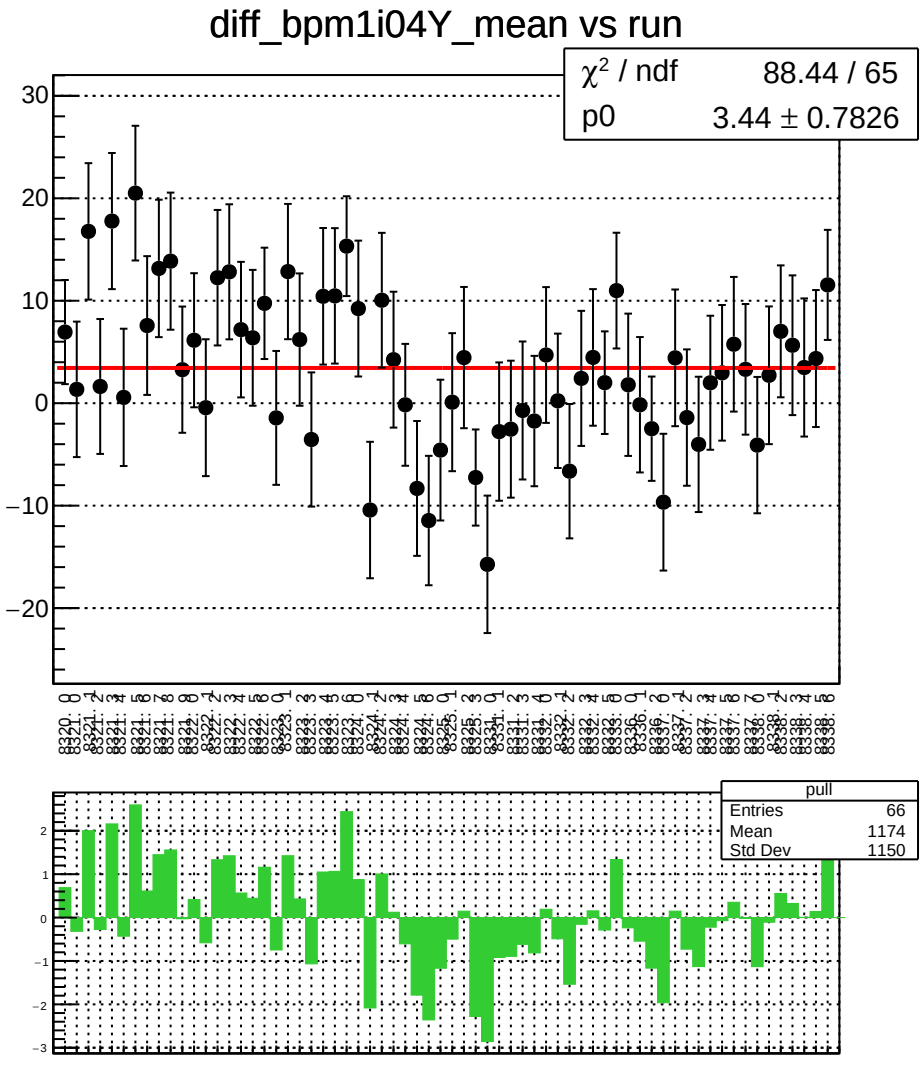

pull1D
Entries 66
Mean 0.04931
Std Dev 2.439

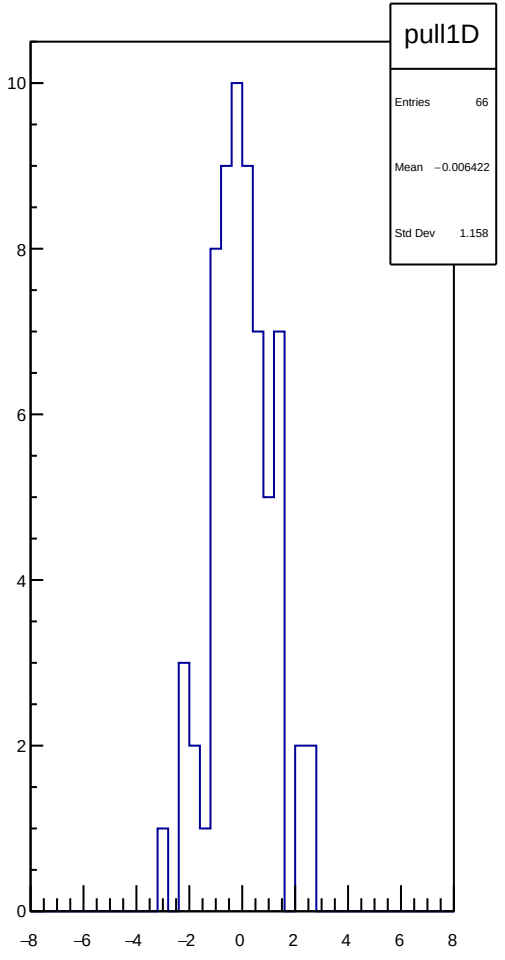

diff_bpm1i02Y_rms vs run
χ² / ndf 186.1 / 65
p0 500 ± 0.44
520
515
510
505
500
495
490
485

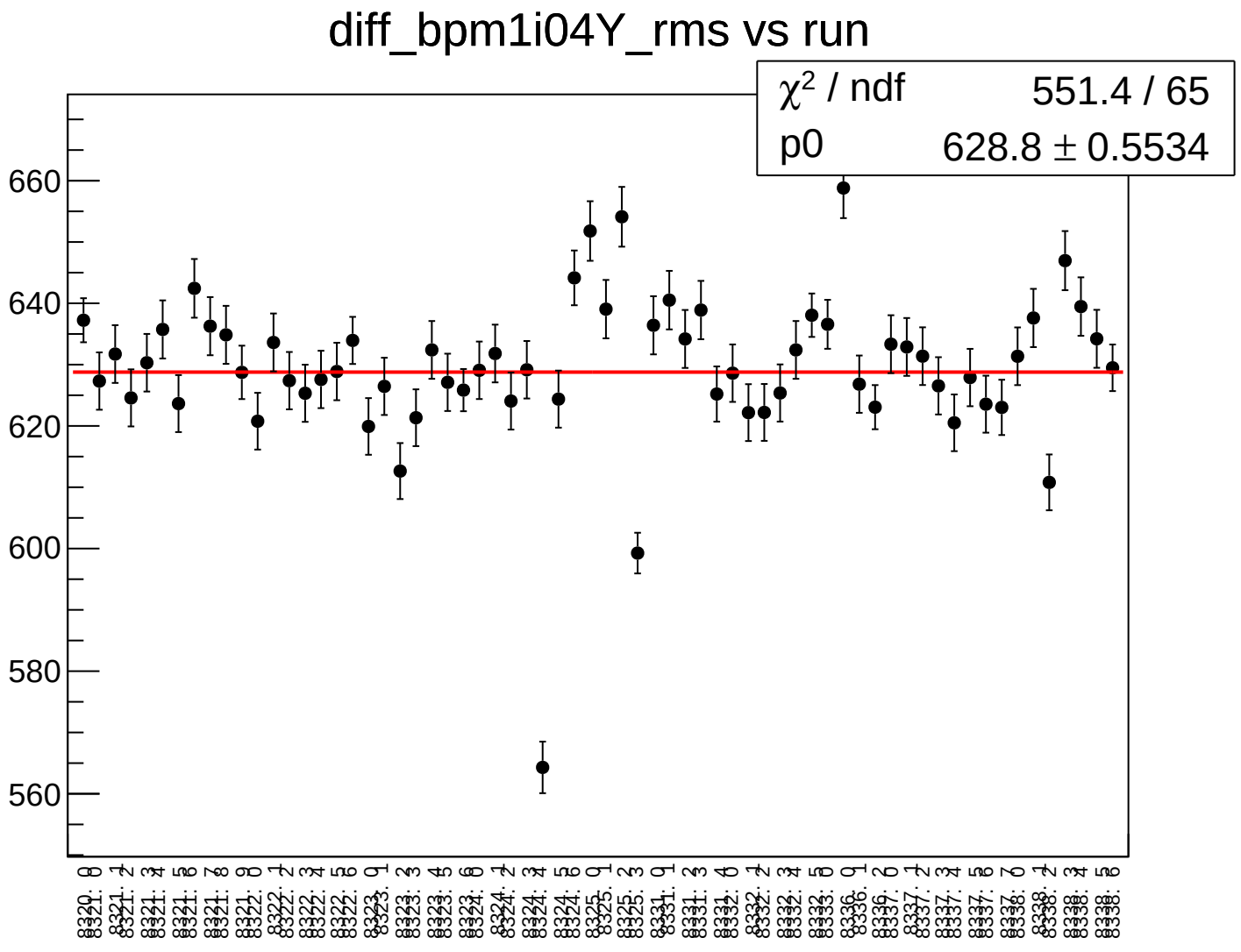

diff_bpm1i04X_mean vs run
χ^2 / ndf 165.7 / 65
p0 177.8 ± 1.222
220
200
180
160
140
pull
Entries 66
Mean 354.4
Std Dev 341.3
4
3
2
1
0
−1
−2
−3

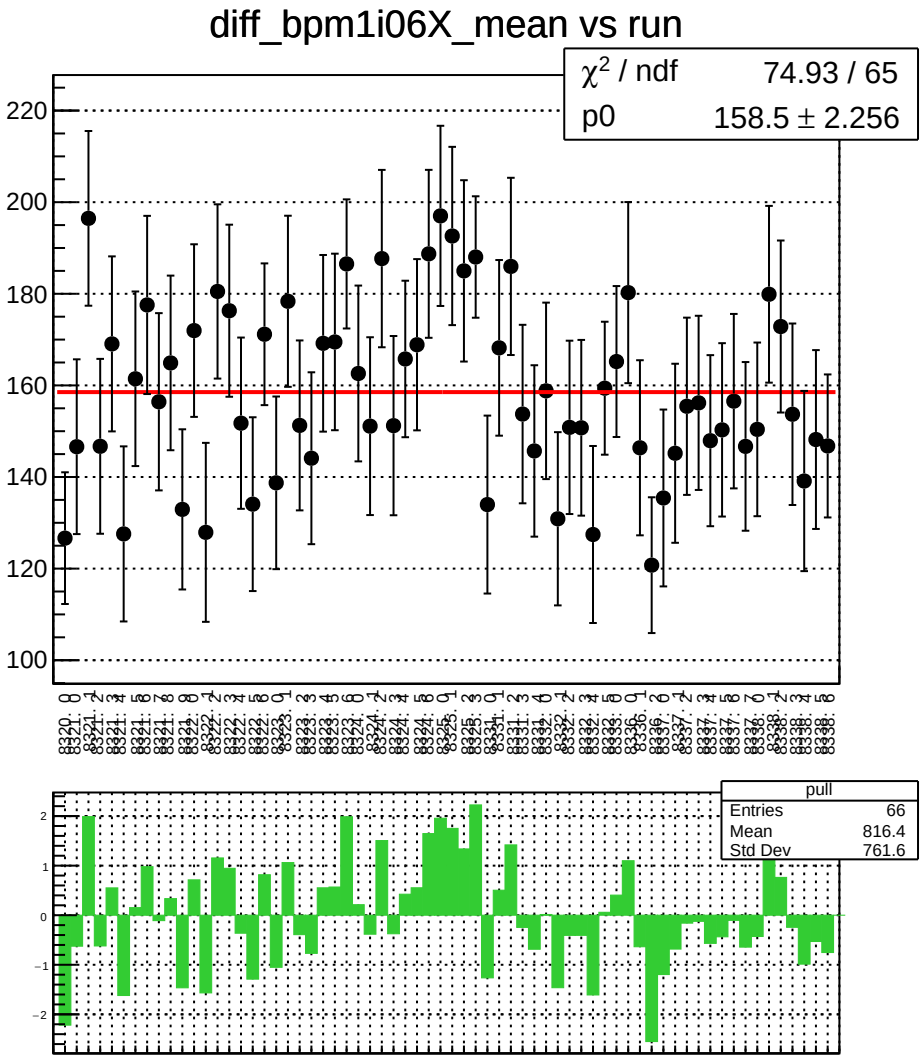

pull1D
Entries 66
Mean 0.01472
Std Dev 1.584
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

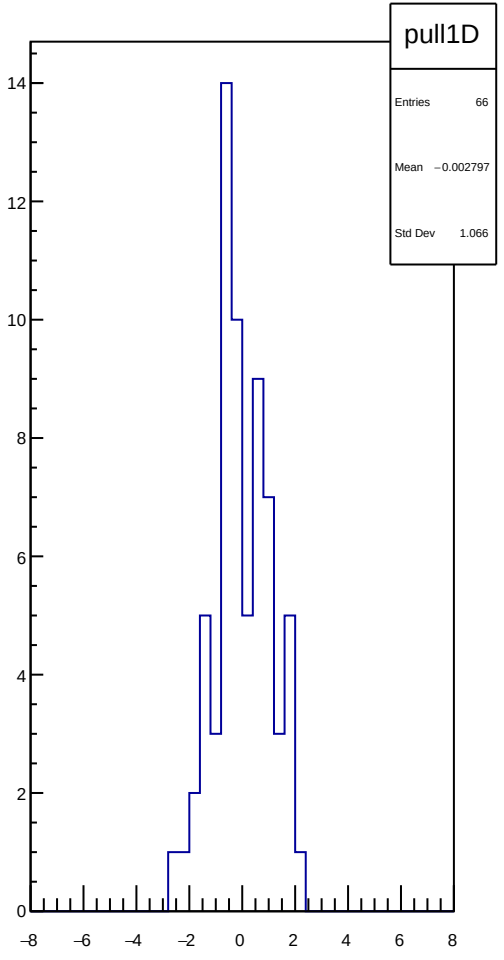

diff_bpm1i04X_rms vs run
χ² / ndf 168.3 / 65
p0 982.2 ± 0.8643
1020
1010
1000
990
980
970
960
950
940

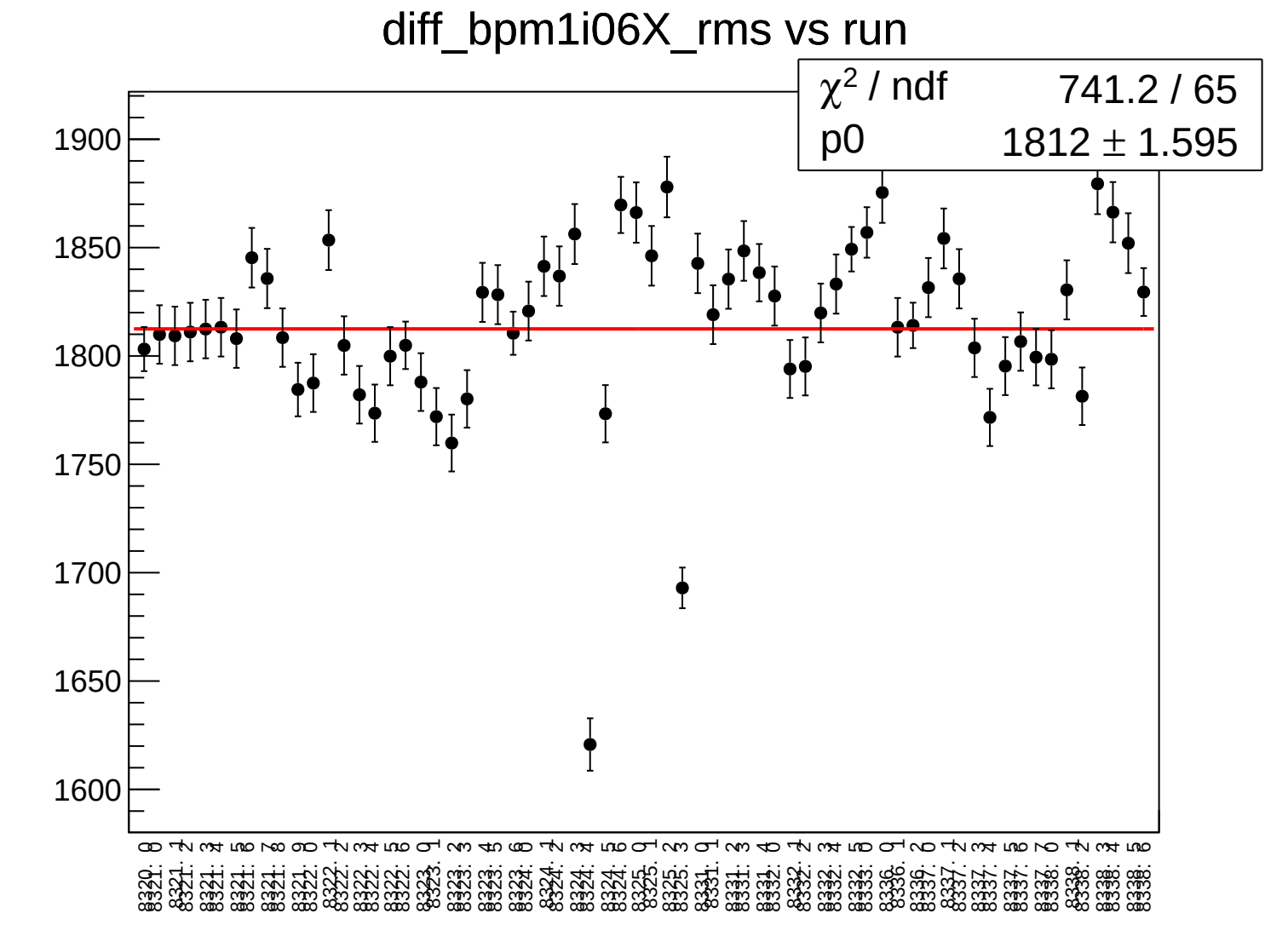

diff_bpm1i04Y_mean vs run
χ² / ndf 88.44 / 65
p0 3.44 ± 0.7826
pull
Entries 66
Mean 1174
Std Dev 1150

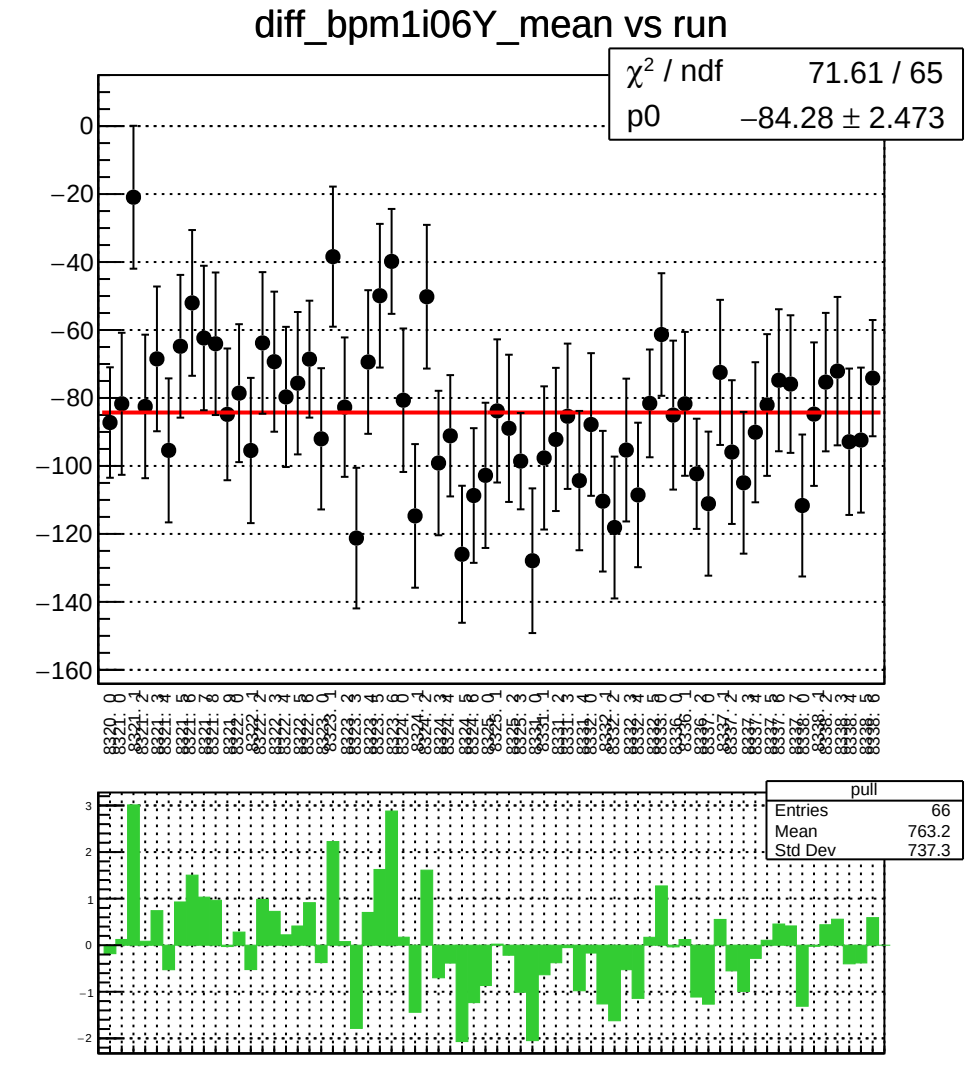

pull1D
Entries 66
Mean −0.006422
Std Dev 1.158

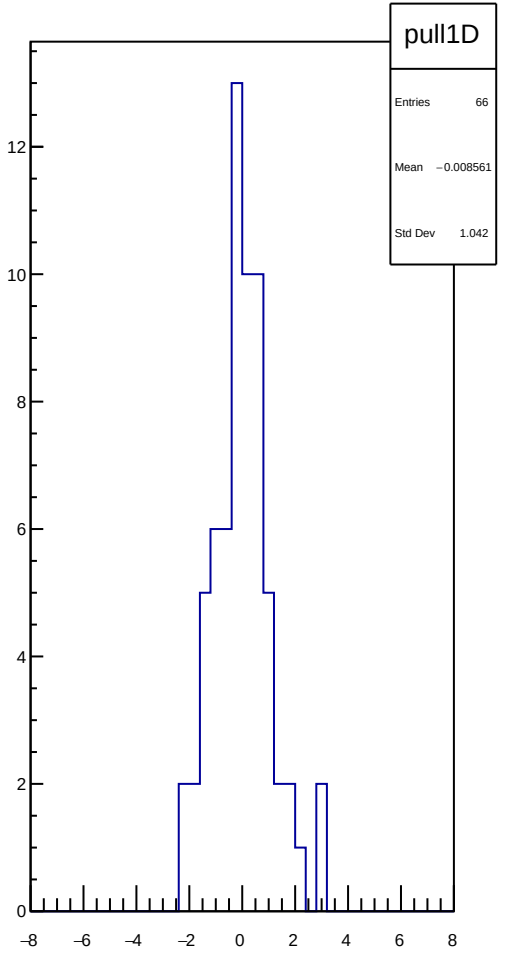

diff_bpm1i04Y_rms vs run
χ² / ndf 551.4 / 65
p0 628.8 ± 0.5534
660
640
620
600
580
560

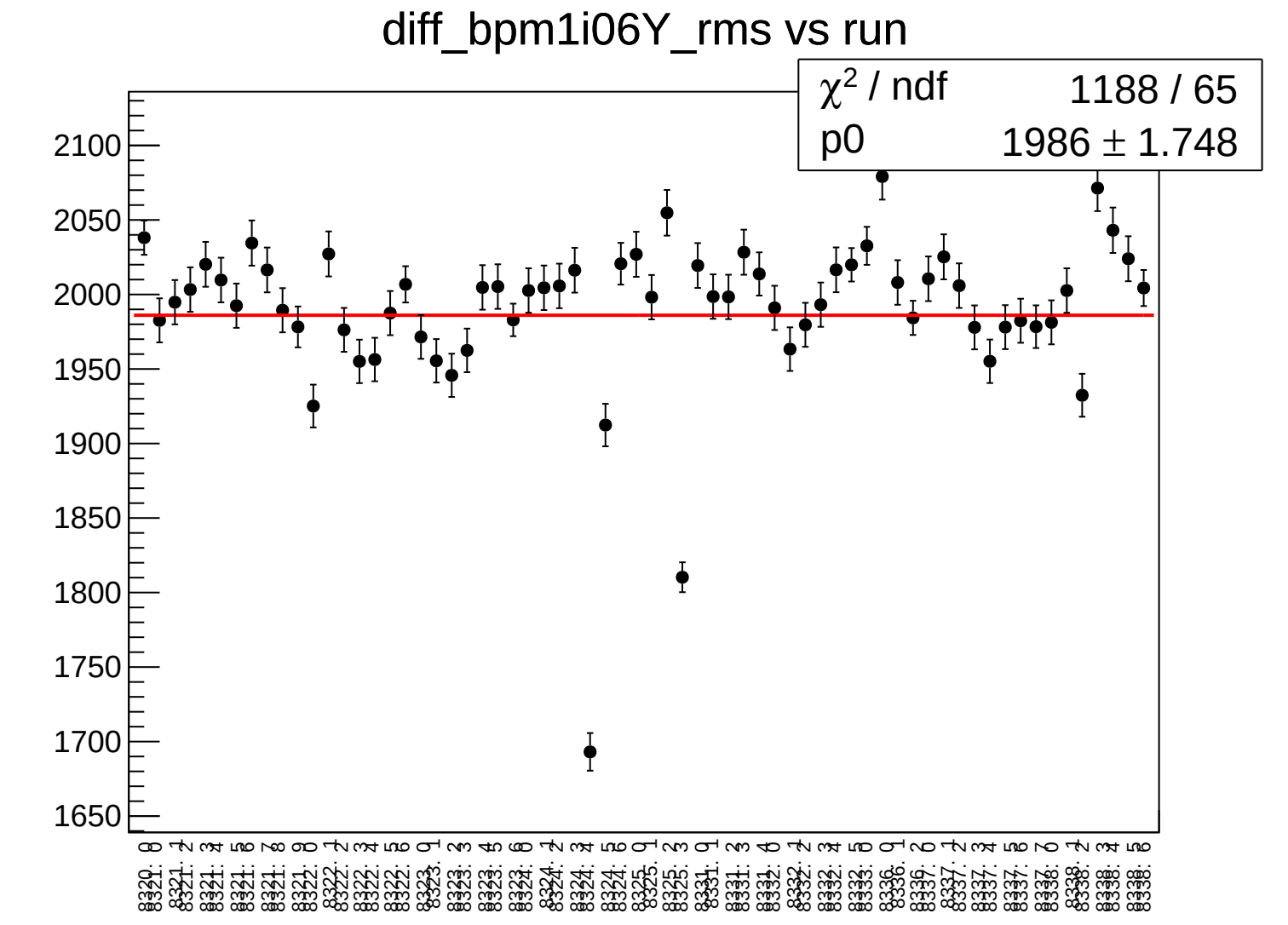

diff_bpm1i06X_mean vs run
χ^2 / ndf 74.93 / 65
p0 158.5 ± 2.256
pull
Entries 66
Mean 816.4
Std Dev 761.6

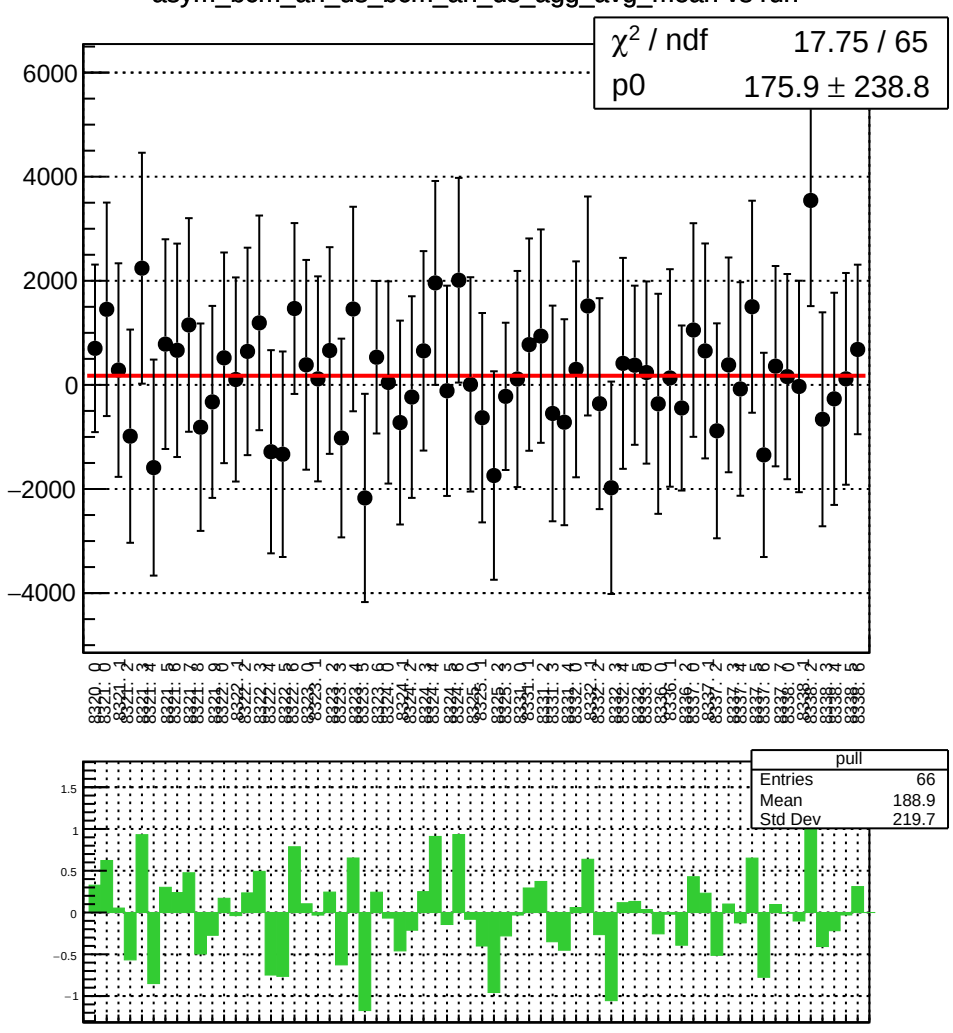

pull1D
Entries 66
Mean −0.002797
Std Dev 1.066

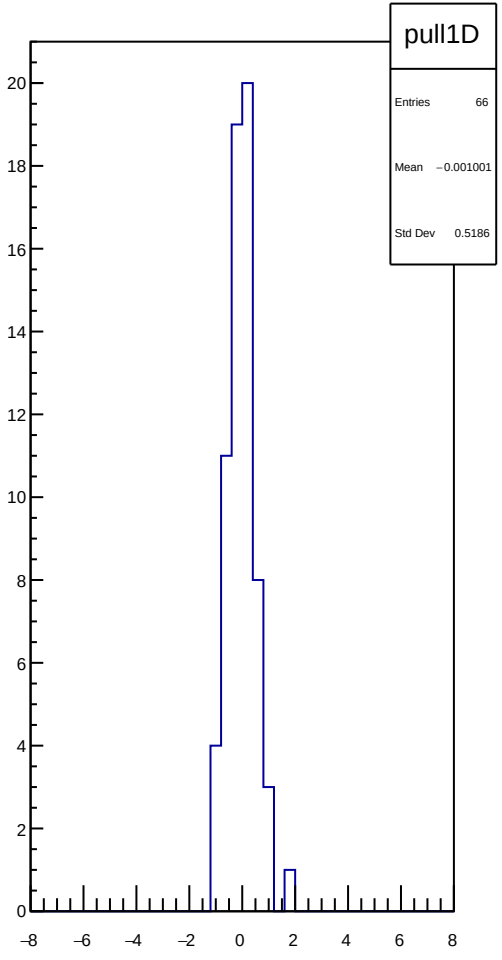

diff_bpm1i06X_rms vs run
χ² / ndf 741.2 / 65
p0 1812 ± 1.595
1900
1850
1800
1750
1700
1650
1600

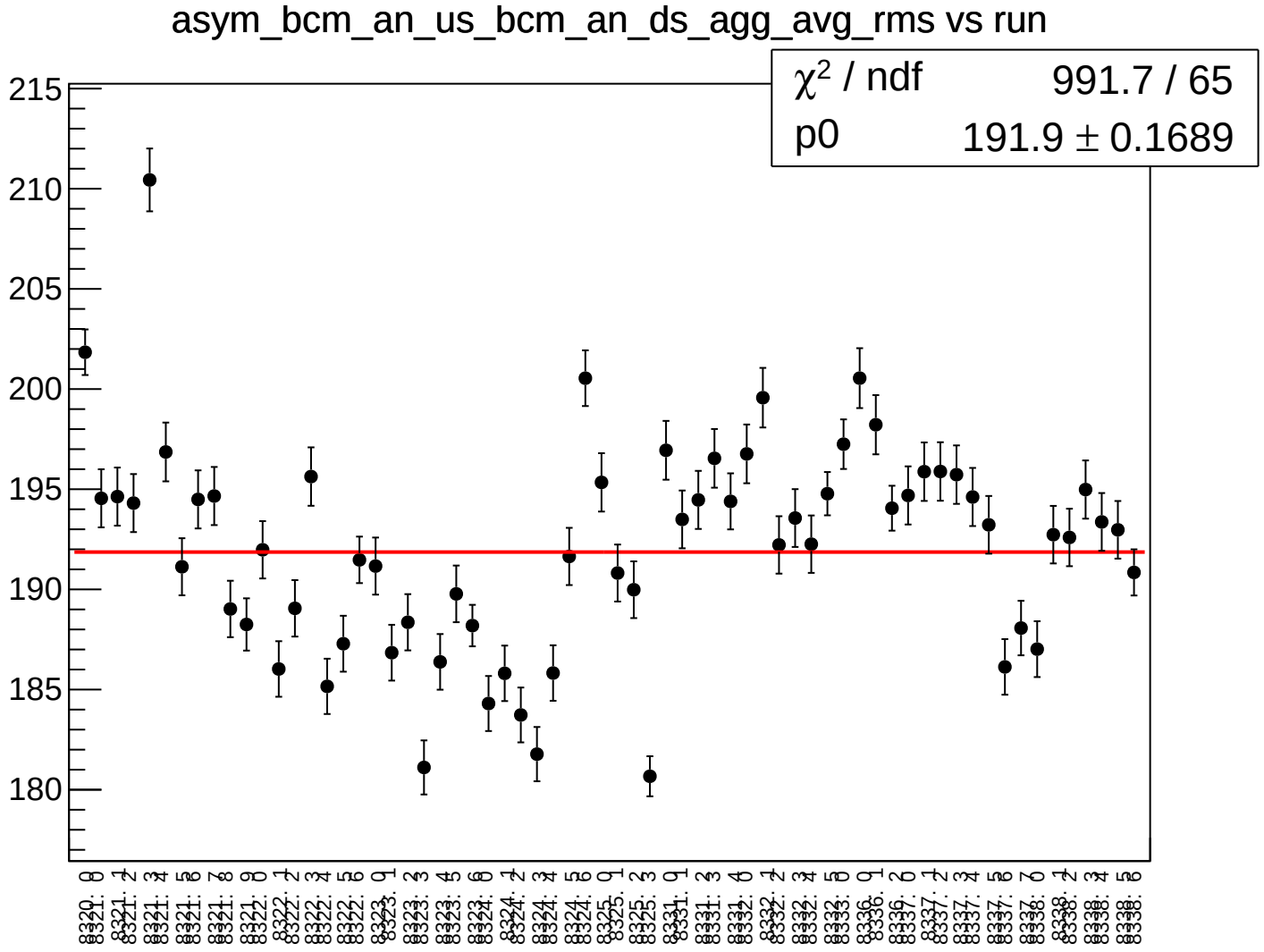

diff_bpm1i06Y_mean vs run
χ² / ndf 71.61 / 65
p0 −84.28 ± 2.473
pull
Entries 66
Mean 763.2
Std Dev 737.3

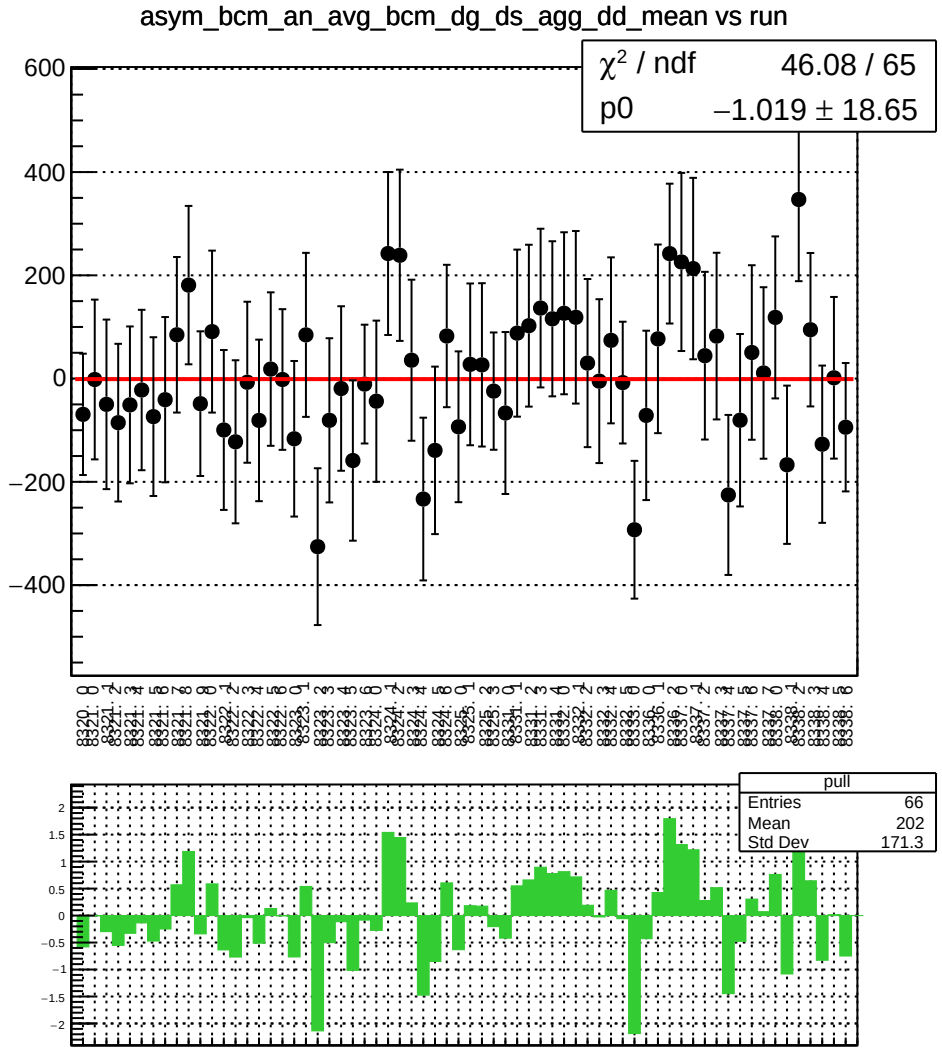

pull1D
Entries 66
Mean −0.008561
Std Dev 1.042

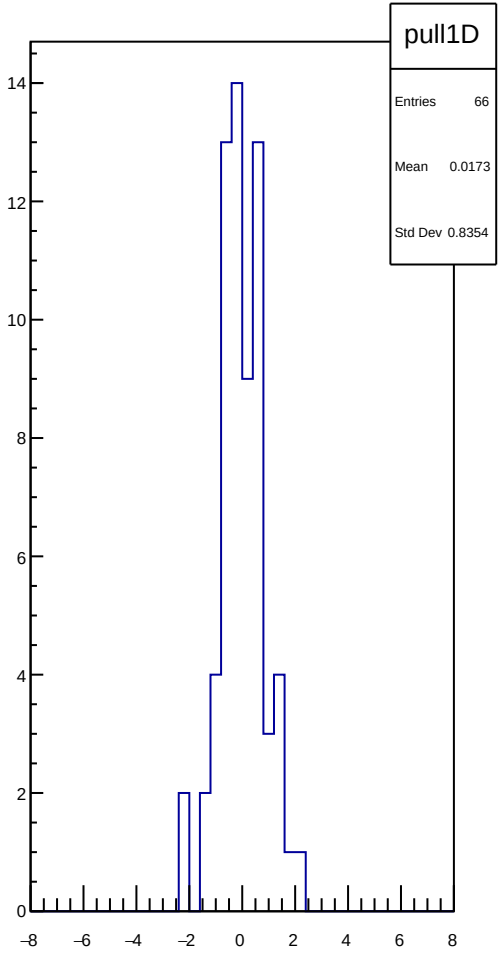

diff_bpm1i06Y_rms vs run
χ² / ndf 1188 / 65
p0 1986 ± 1.748
2100
2050
2000
1950
1900
1850
1800
1750
1700
1650

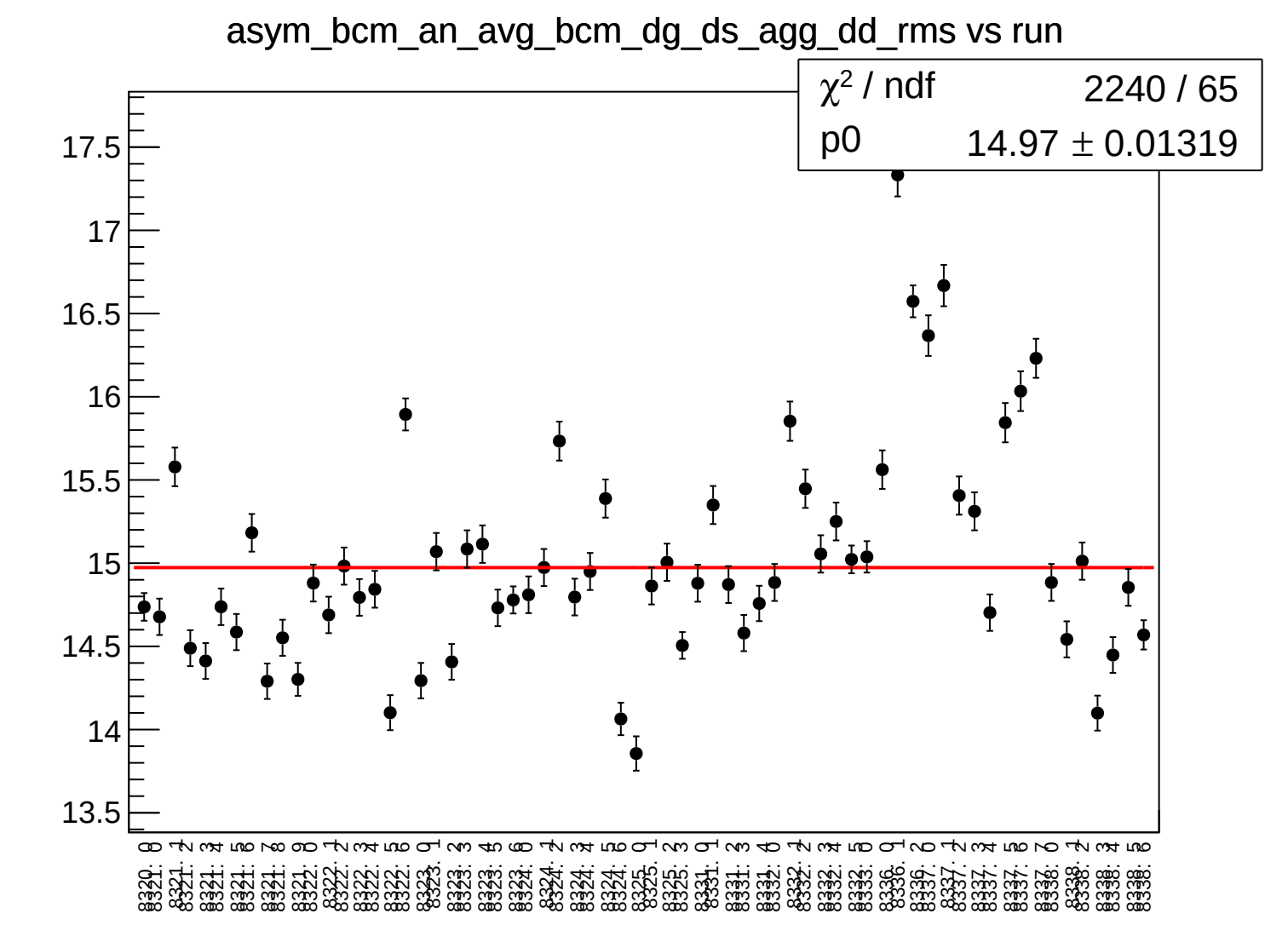

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.75 / 65
p0 175.9 ± 238.8
pull
Entries 66
Mean 188.9
Std Dev 219.7

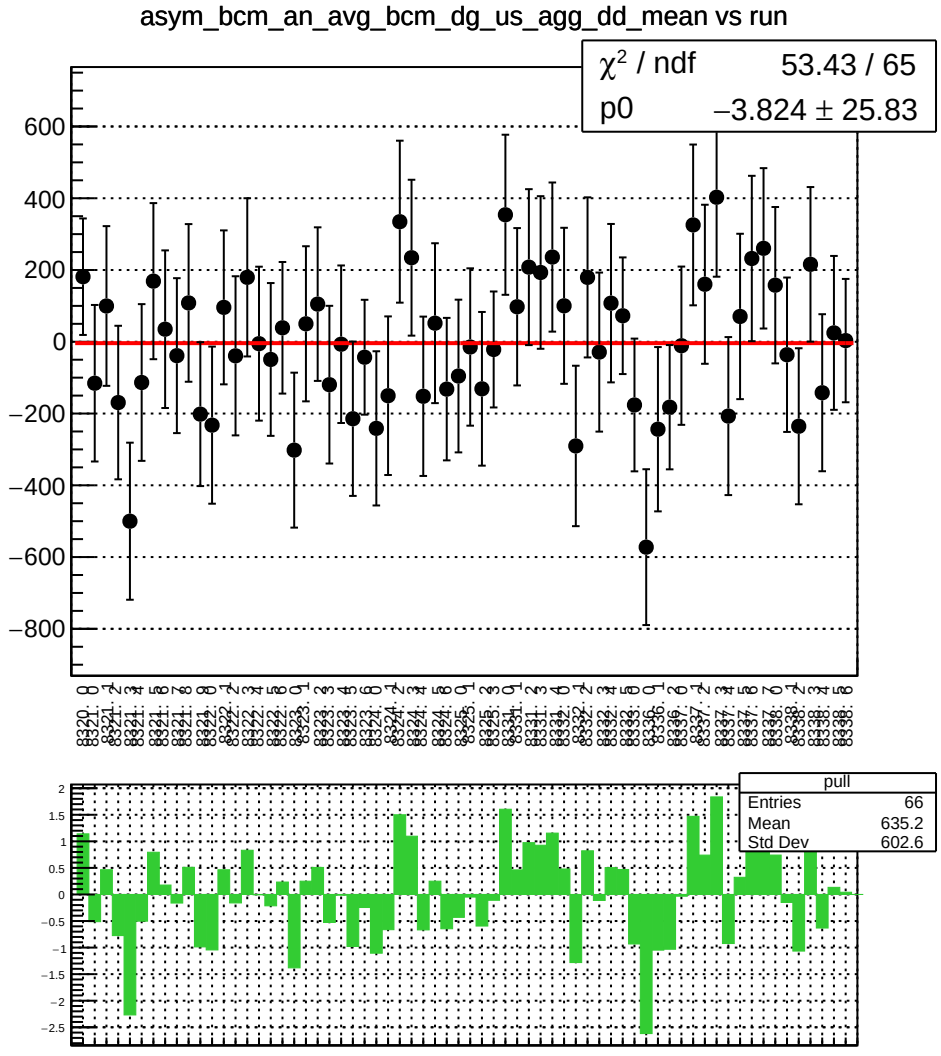

pull1D
Entries 66
Mean −0.001001
Std Dev 0.5186

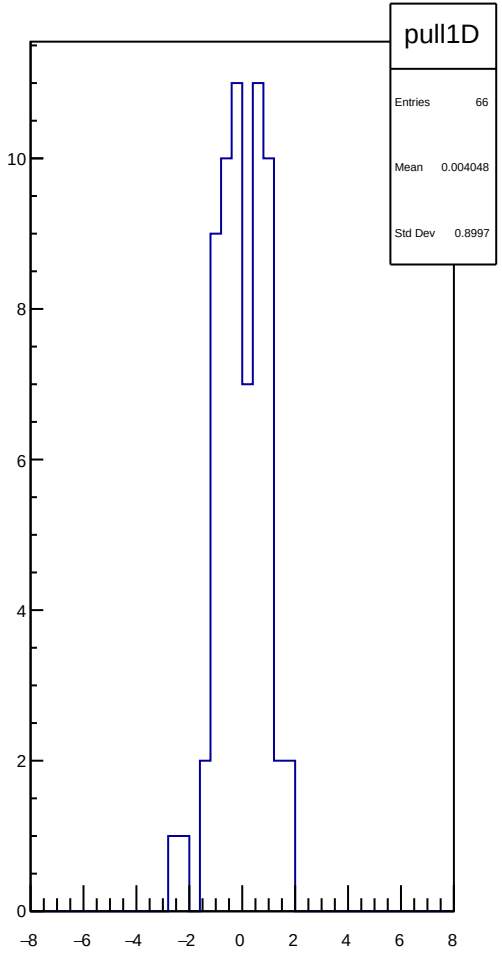

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 991.7 / 65
p0 191.9 ± 0.1689
215
210
205
200
195
190
185
180

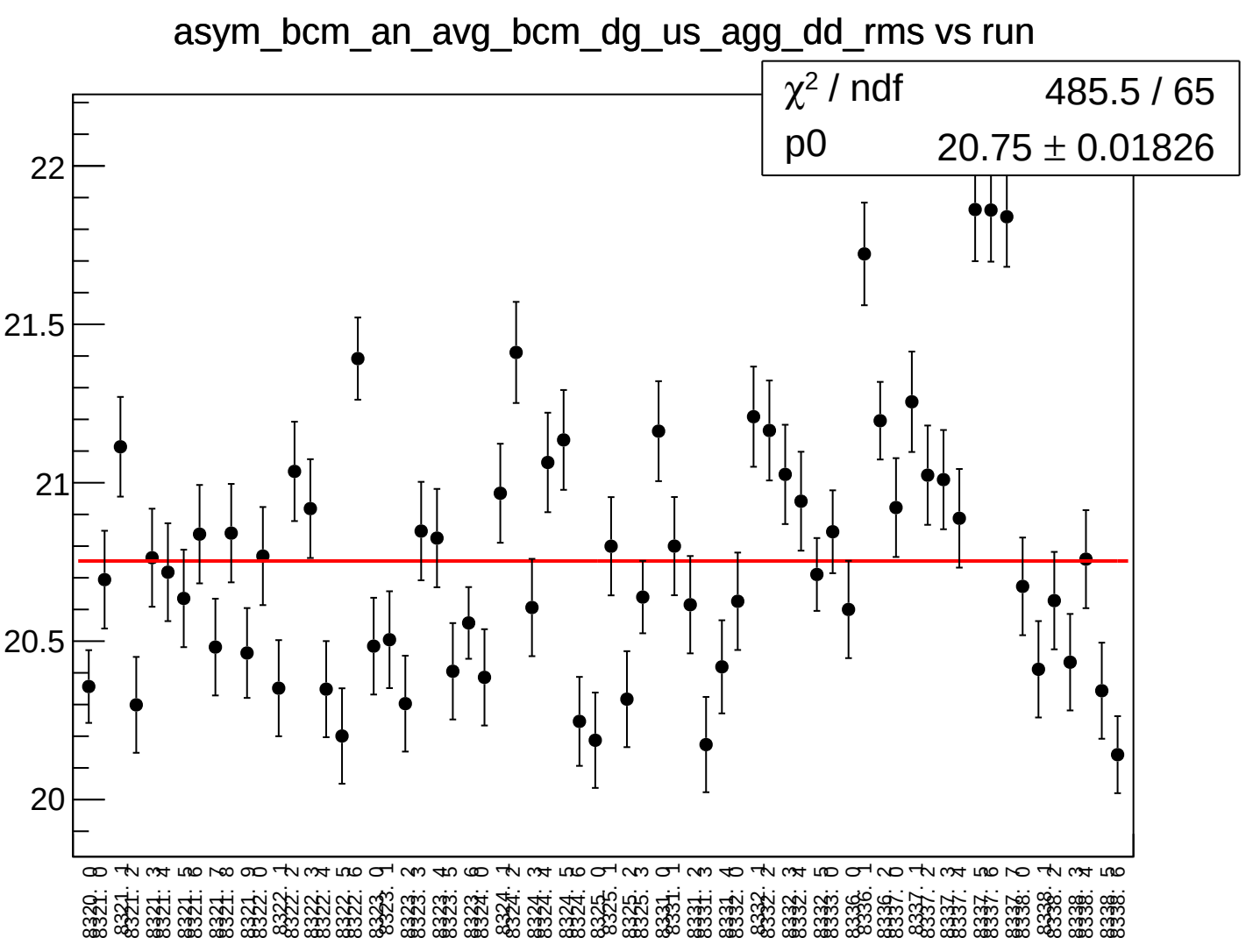

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.08 / 65
p0 −1.019 ± 18.65
pull
Entries 66
Mean 202
Std Dev 171.3

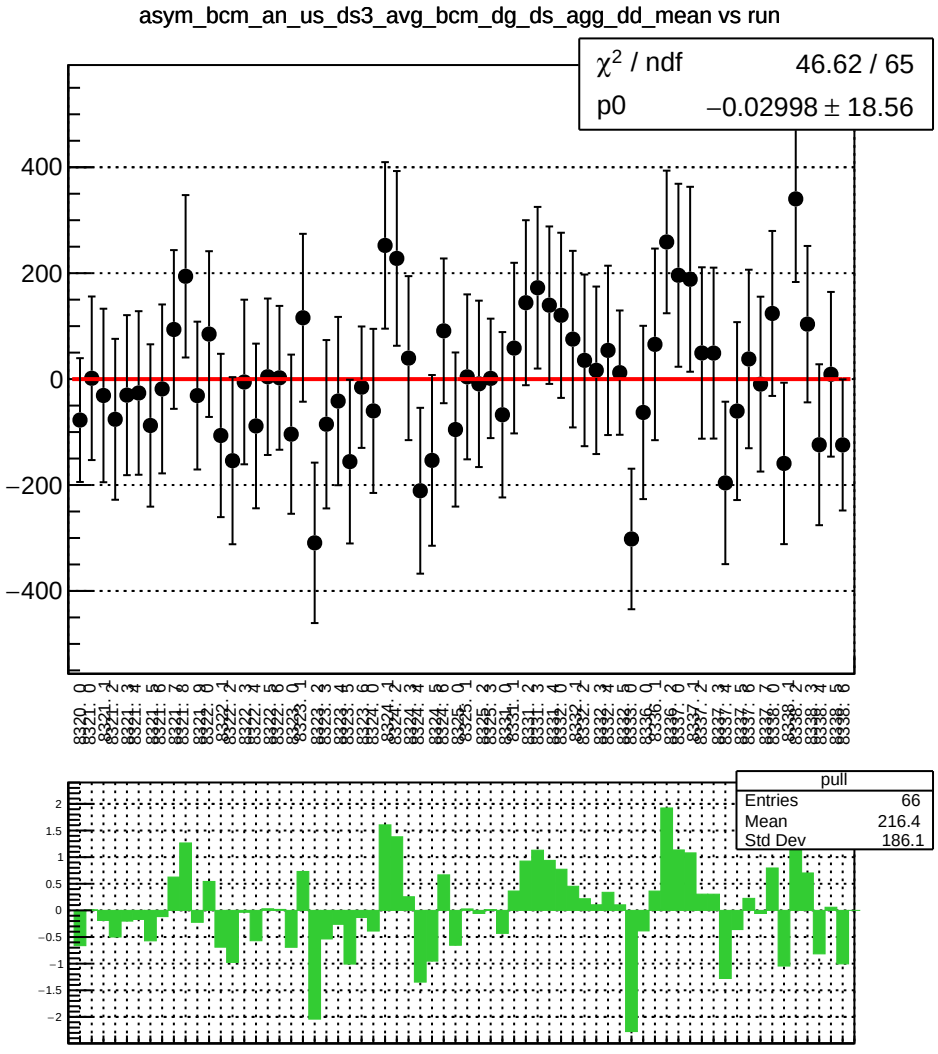

pull1D
Entries 66
Mean 0.0173
Std Dev 0.8354

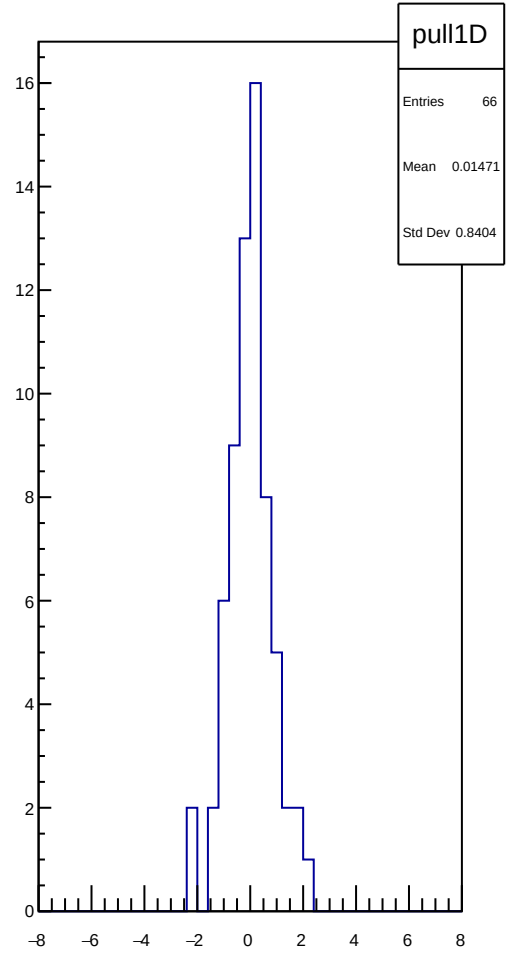

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2240 / 65
p0 14.97 ± 0.01319
17.5
17
16.5
16
15.5
15
14.5
14
13.5

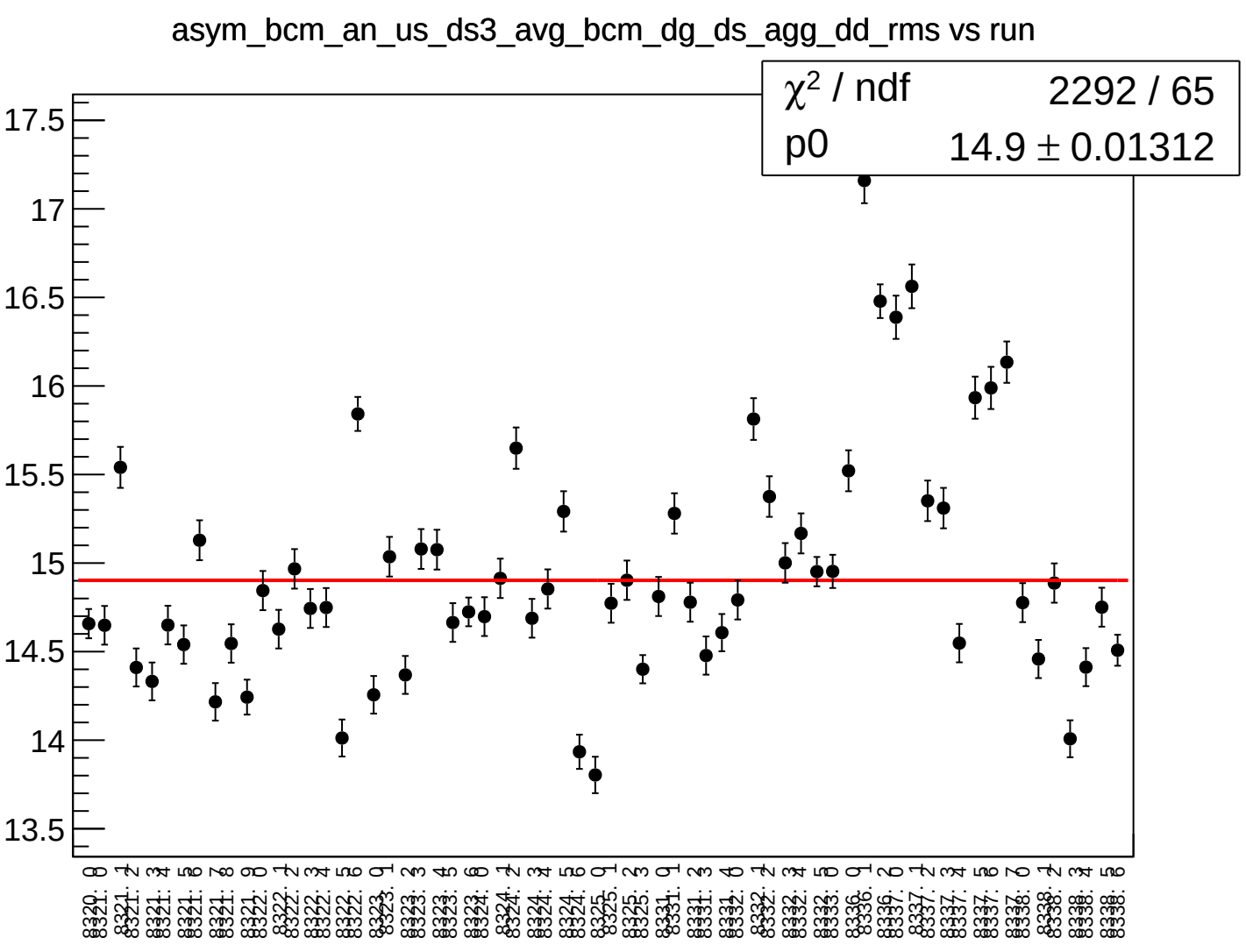

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 53.43 / 65
p0 −3.824 ± 25.83
pull
Entries 66
Mean 635.2
Std Dev 602.6

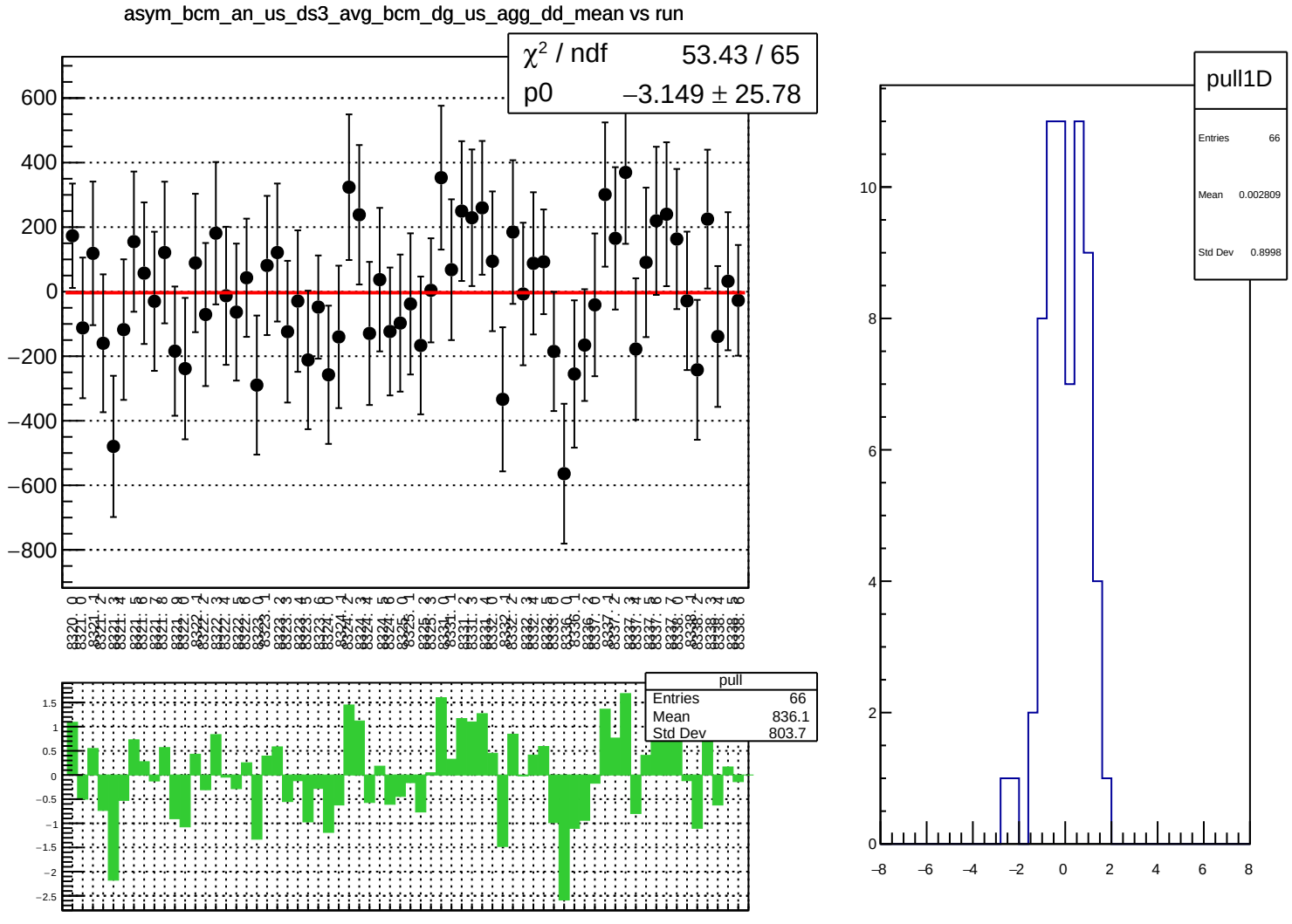

pull1D
Entries 66
Mean 0.004048
Std Dev 0.8997

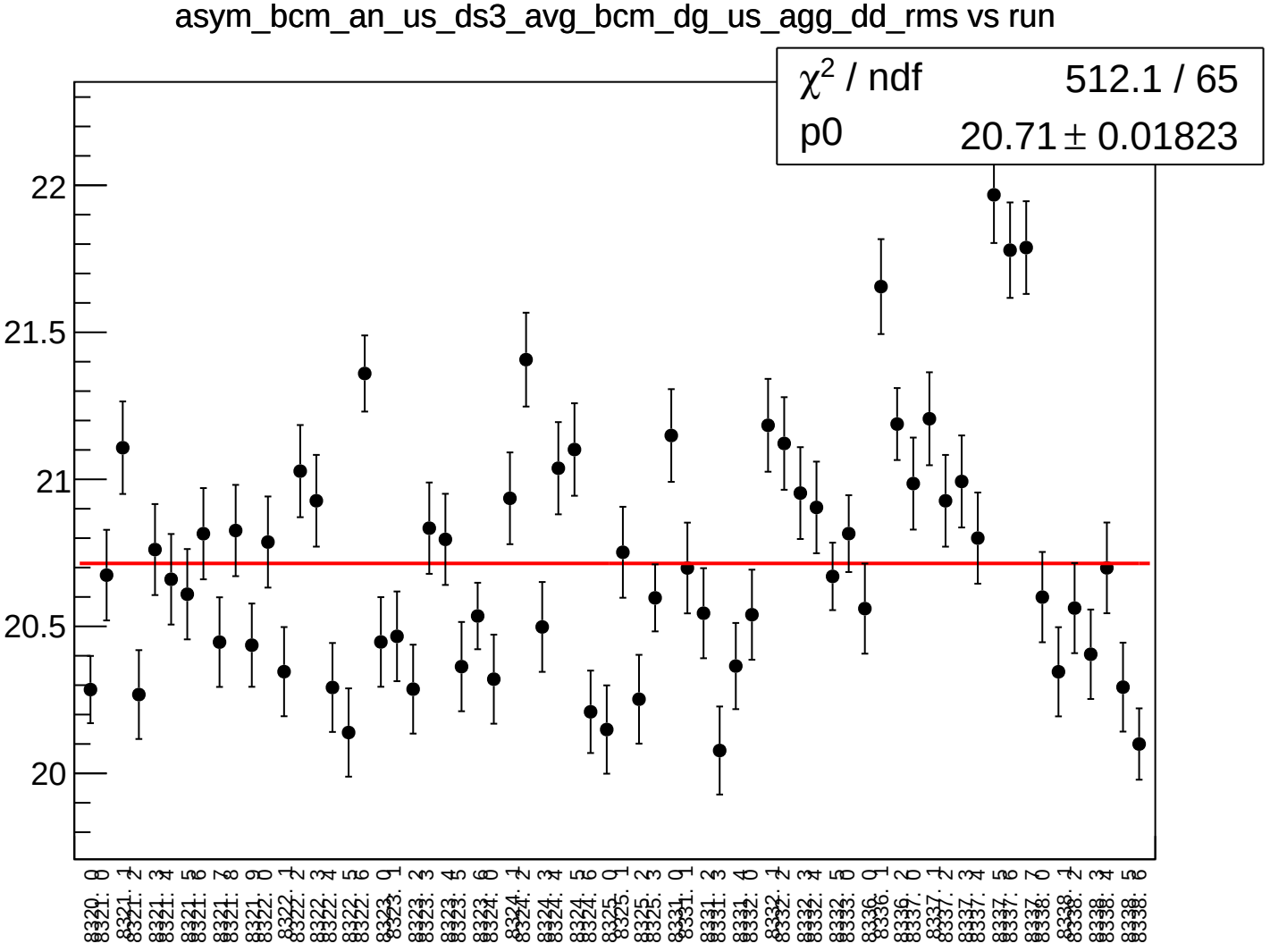

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 485.5 / 65
p0 20.75 ± 0.01826
22
21.5
21
20.5
20

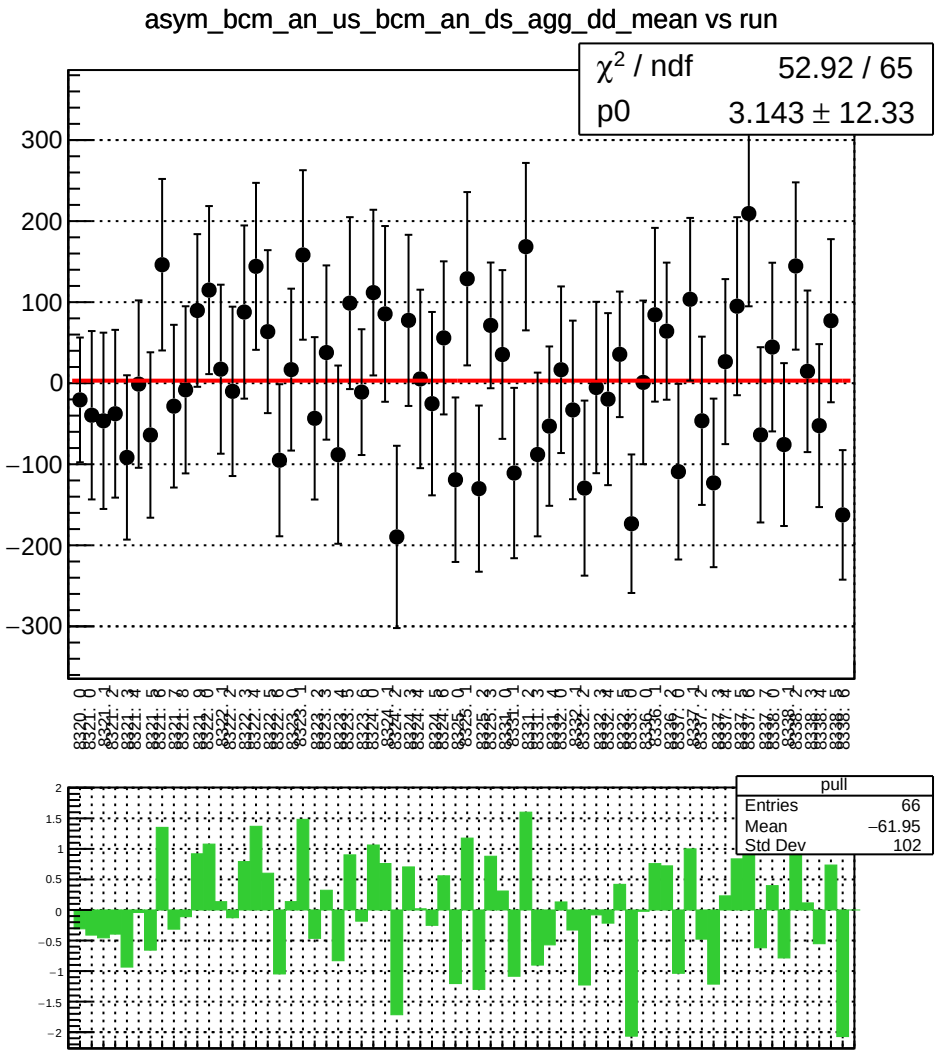

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 46.62 / 65
p0 −0.02998 ± 18.56
400
200
0
−200
−400
pull
Entries 66
Mean 216.4
Std Dev 186.1
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

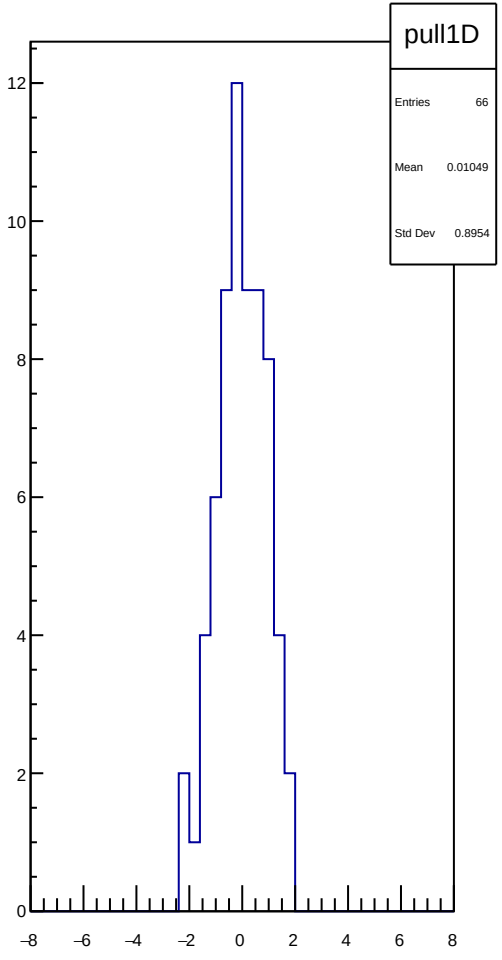

pull1D
Entries 66
Mean 0.01471
Std Dev 0.8404
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

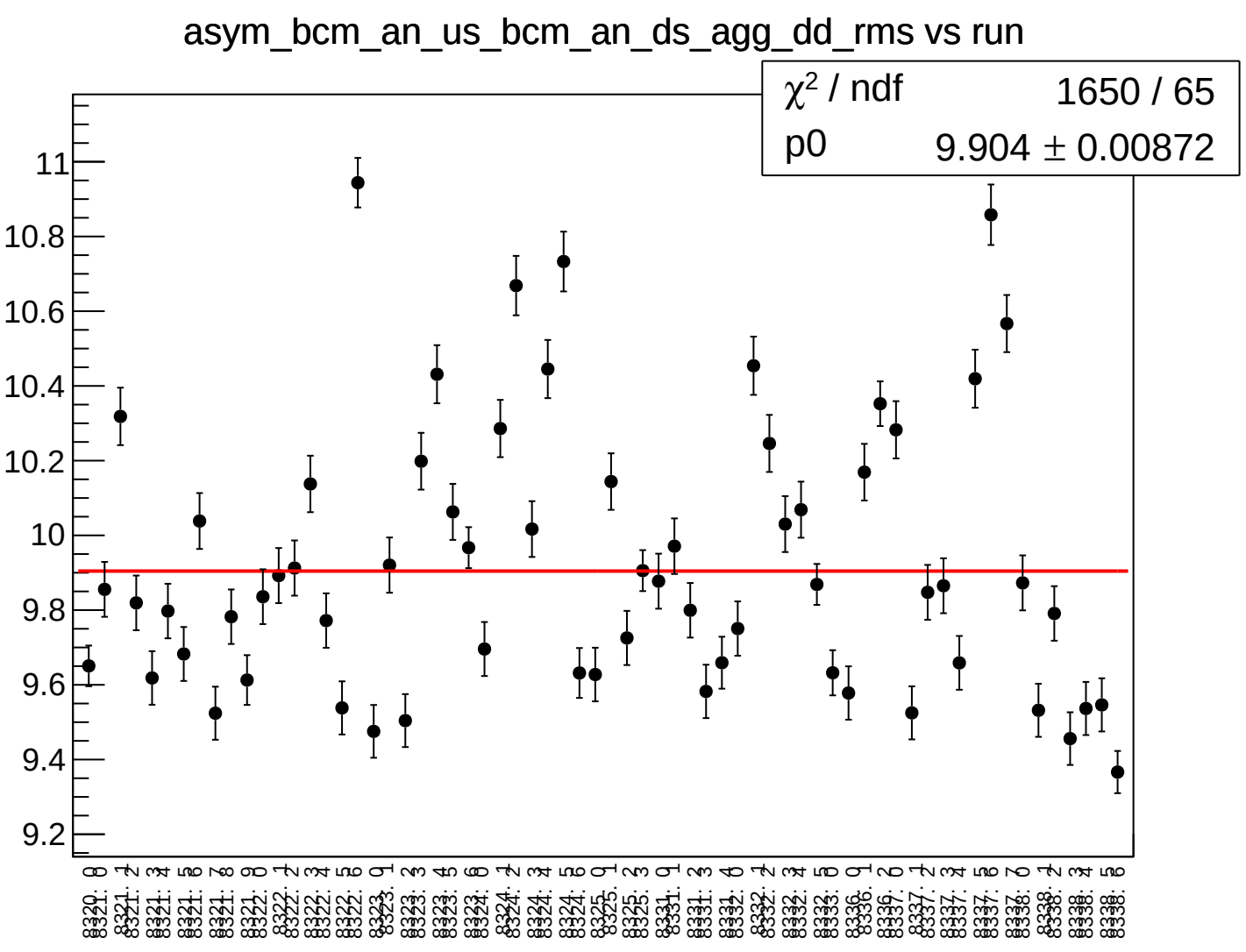

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2292 / 65
p0 14.9 ± 0.01312
17.5
17
16.5
16
15.5
15
14.5
14
13.5

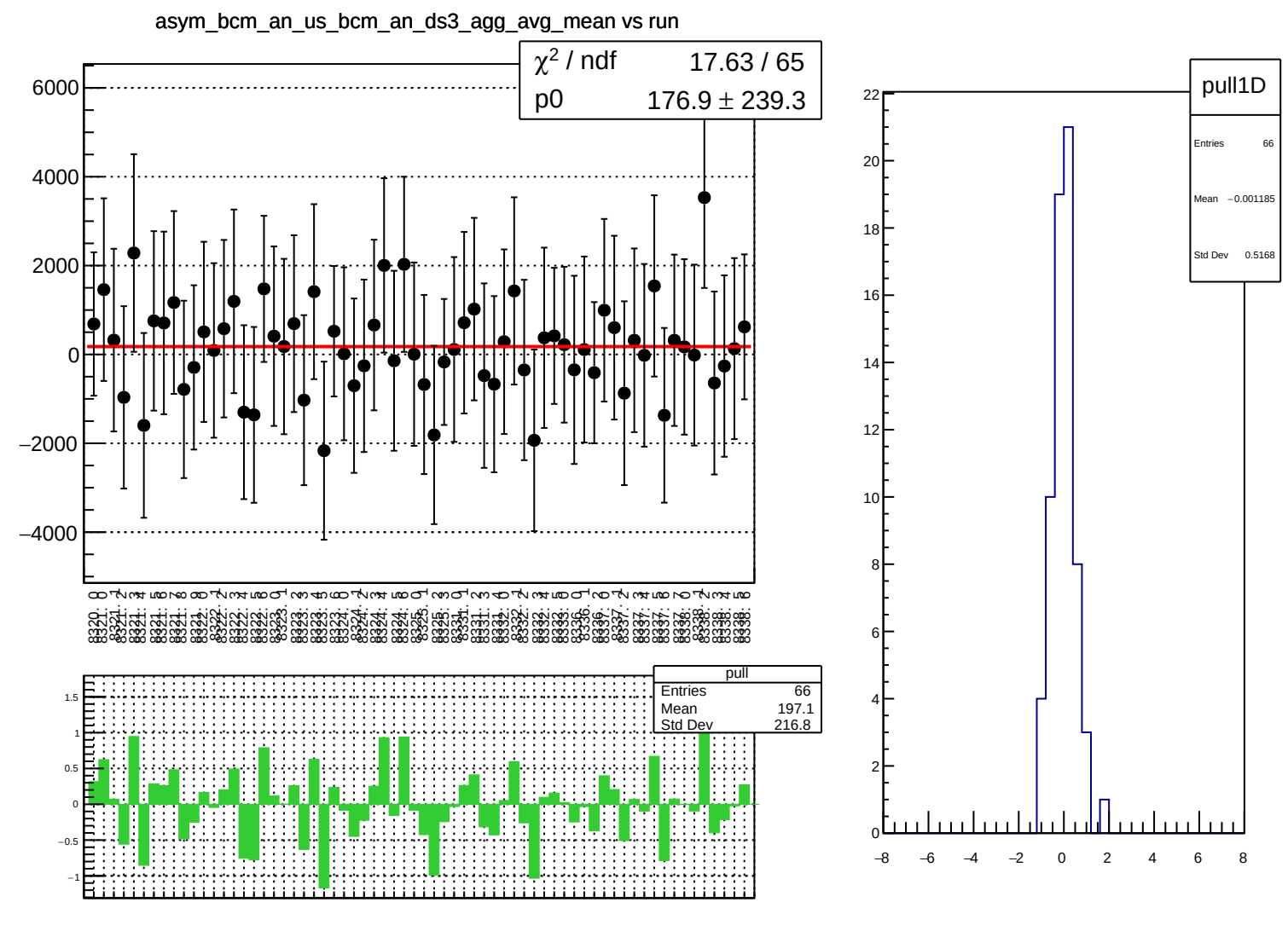

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 53.43 / 65
p0 −3.149 ± 25.78
pull
Entries 66
Mean 836.1
Std Dev 803.7
pull1D
Entries 66
Mean 0.002809
Std Dev 0.8998

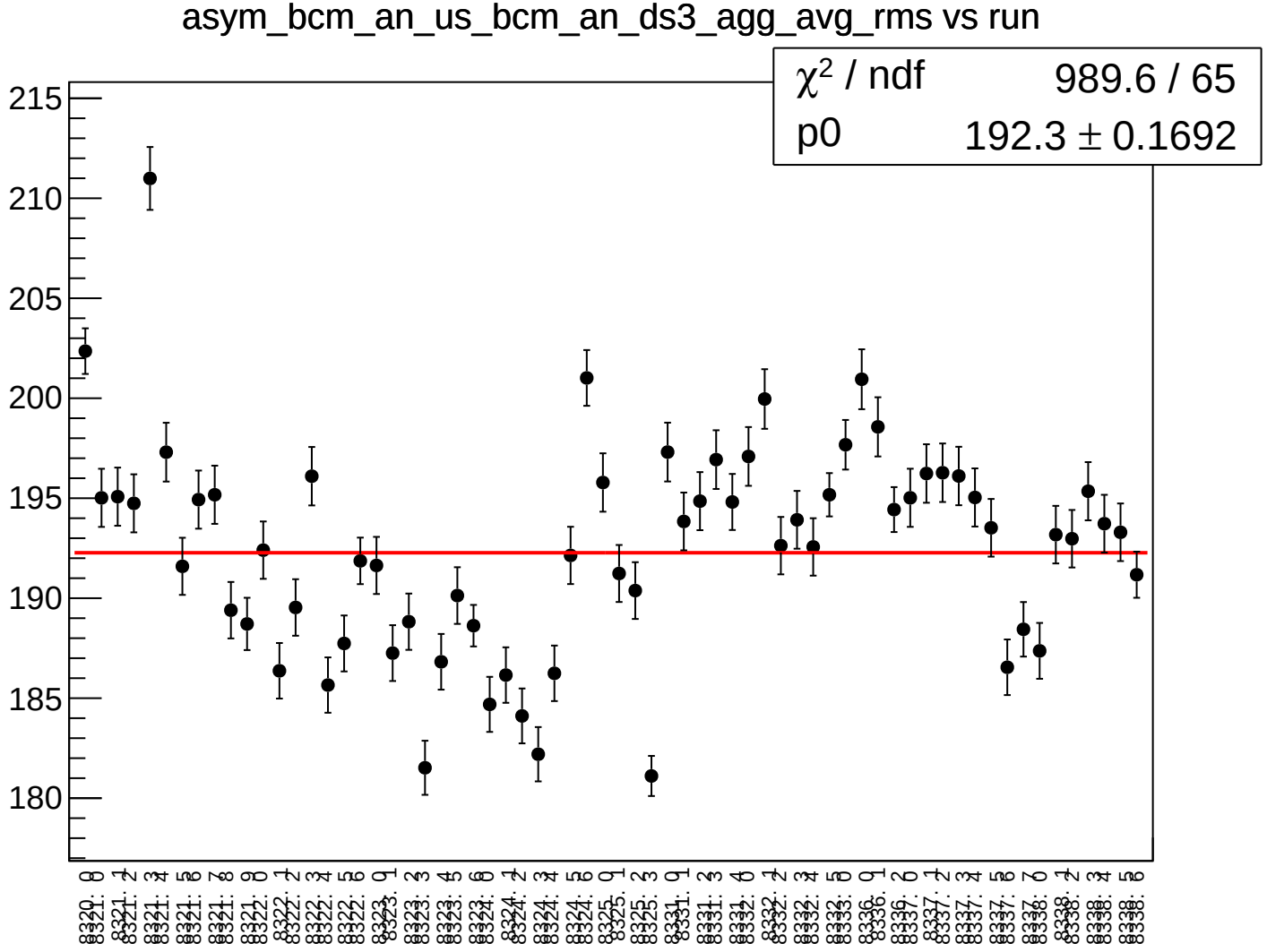

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 512.1 / 65
p0 20.71 ± 0.01823
22
21.5
21
20.5
20

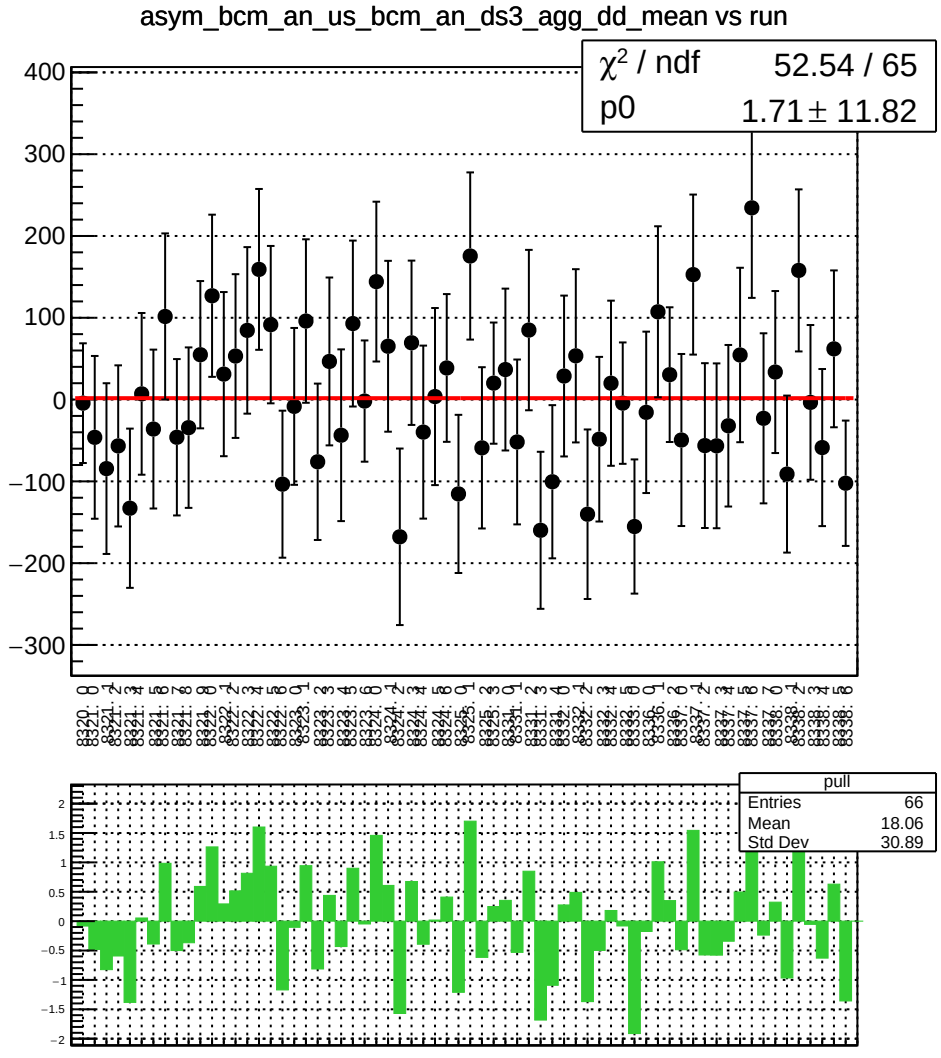

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 52.92 / 65
p0 3.143 ± 12.33
pull
Entries 66
Mean −61.95
Std Dev 102

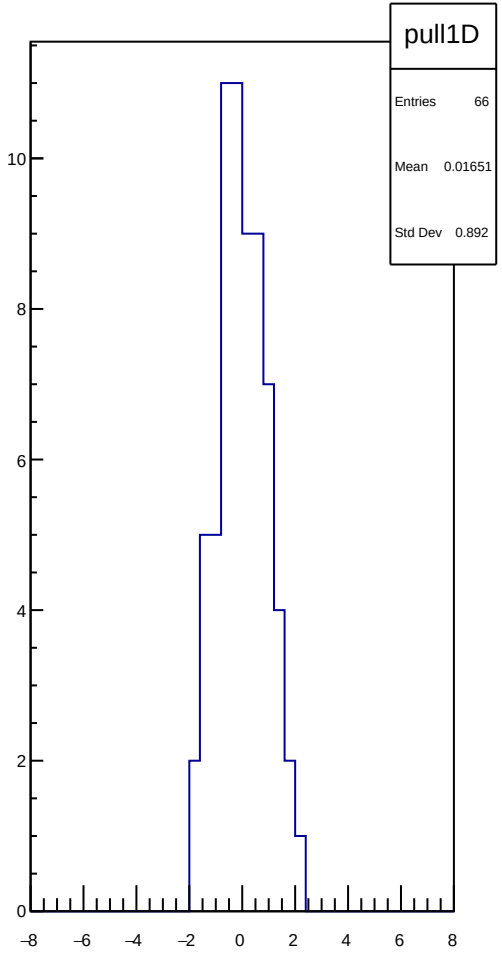

pull1D
Entries 66
Mean 0.01049
Std Dev 0.8954

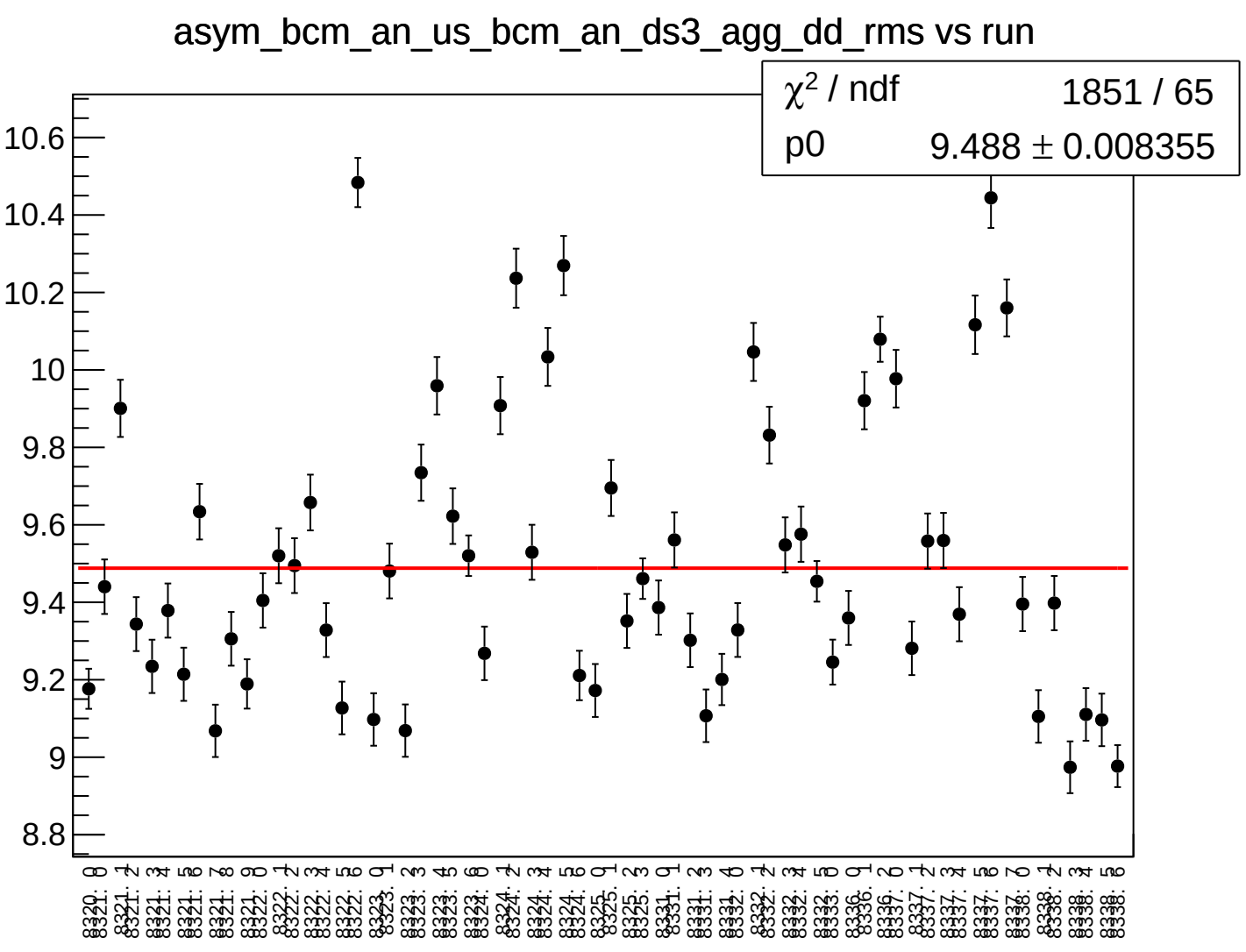

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1650 / 65
p0 9.904 ± 0.00872
11
10.8
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2

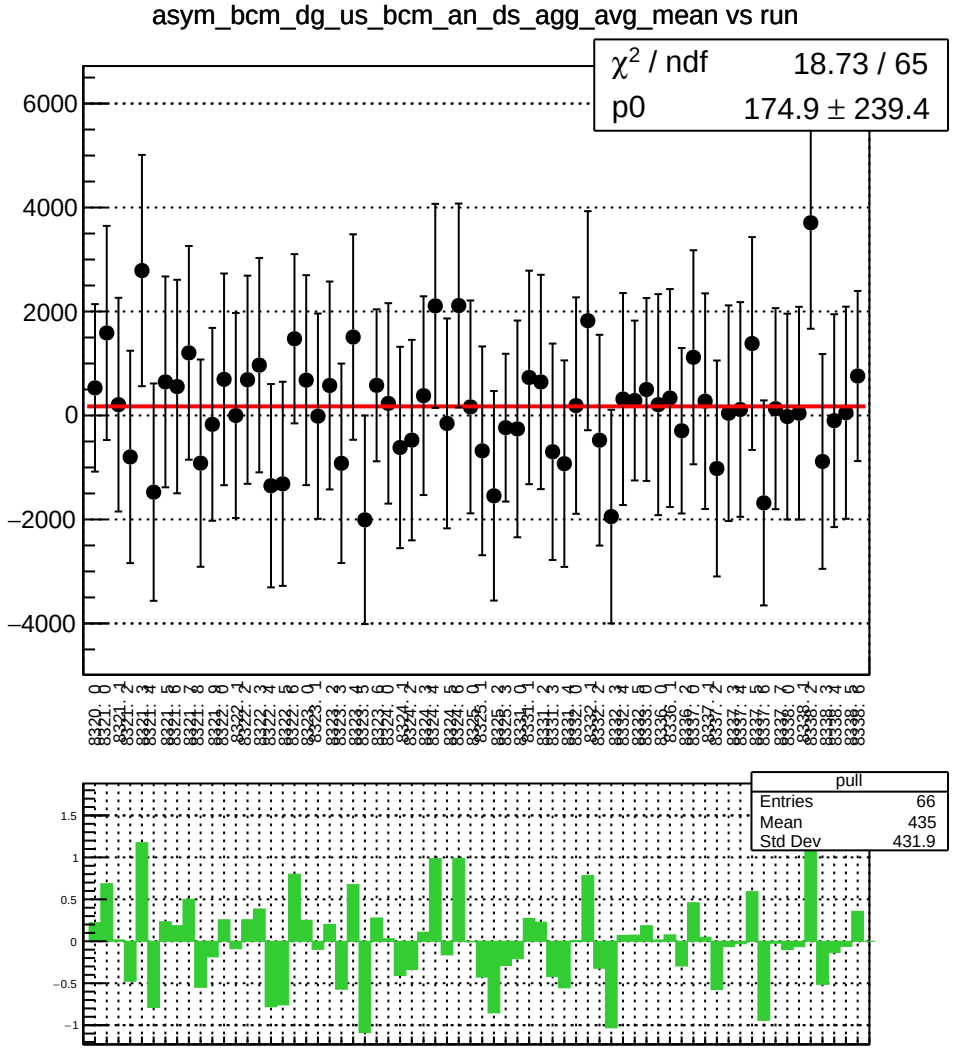

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 17.63 / 65
p0 176.9 ± 239.3
6000
4000
2000
0
−2000
−4000
pull
Entries 66
Mean 197.1
Std Dev 216.8
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 66
Mean −0.001185
Std Dev 0.5168
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

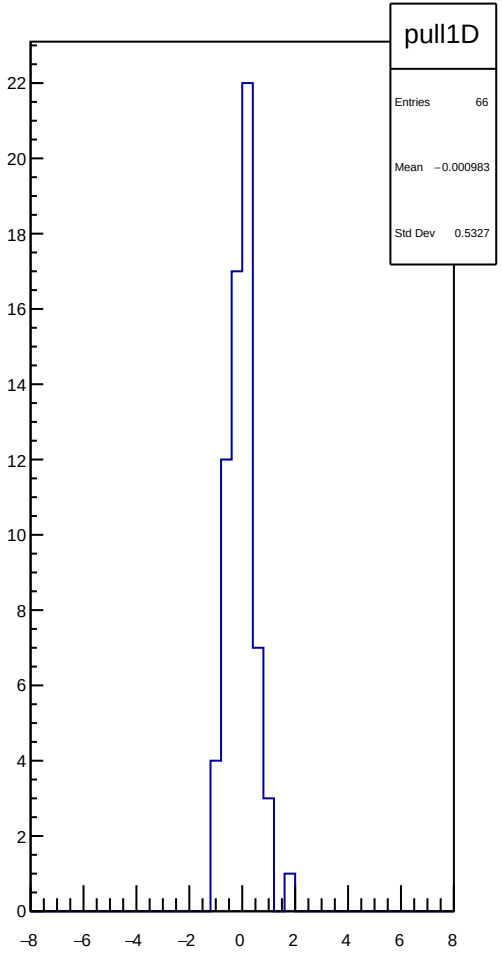

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 989.6 / 65
p0 192.3 ± 0.1692
215
210
205
200
195
190
185
180

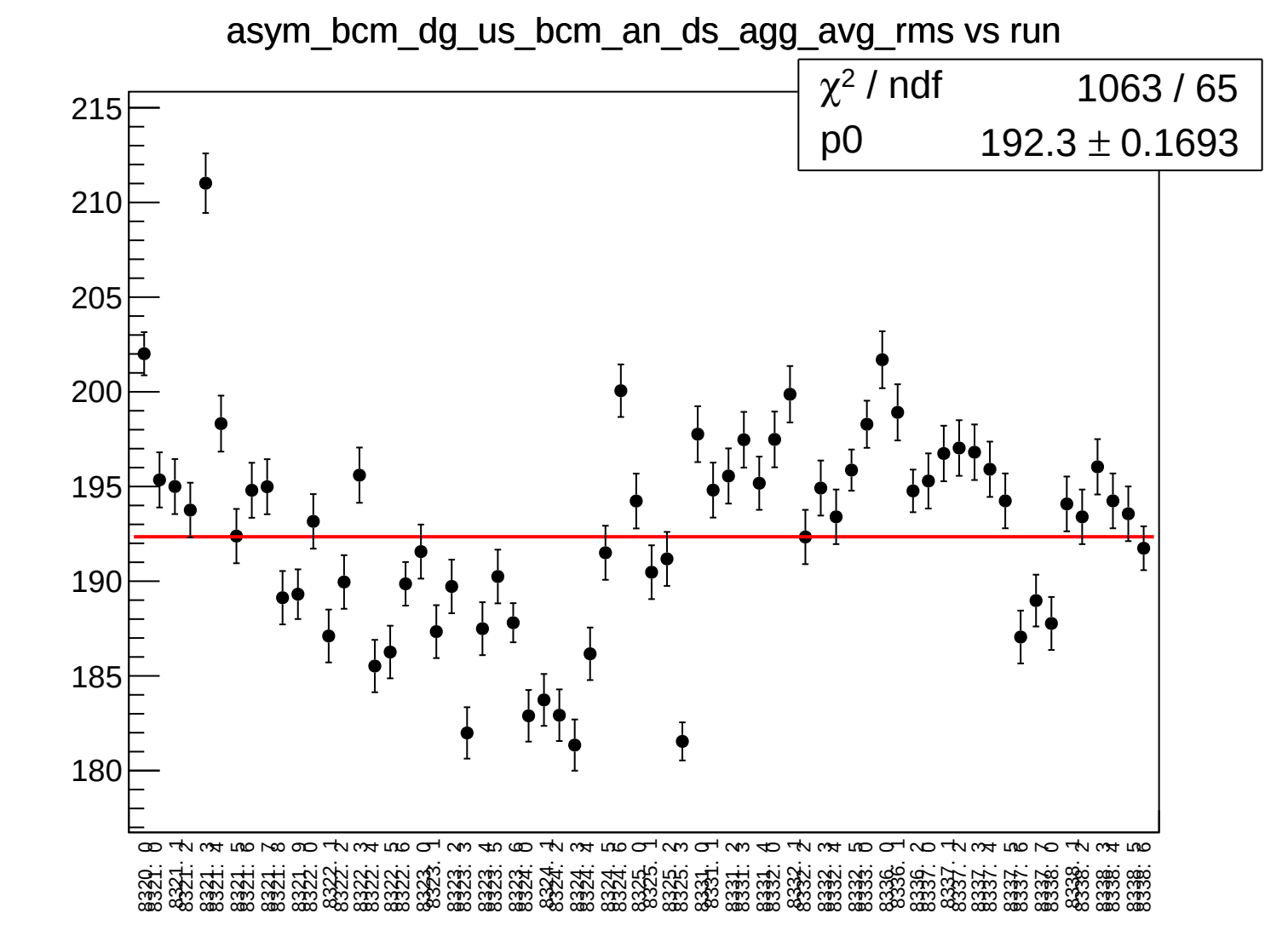

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 52.54 / 65
p0 1.71 ± 11.82
pull
Entries 66
Mean 18.06
Std Dev 30.89

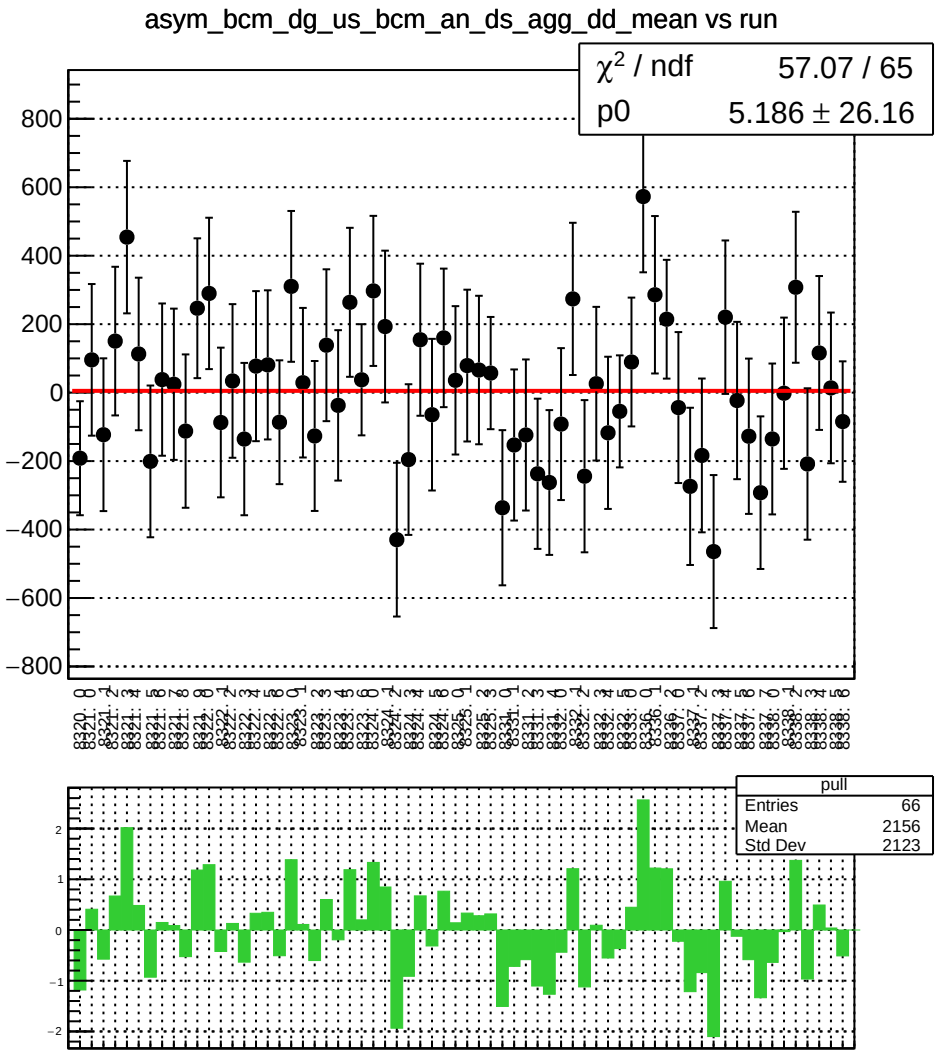

pull1D
Entries 66
Mean 0.01651
Std Dev 0.892

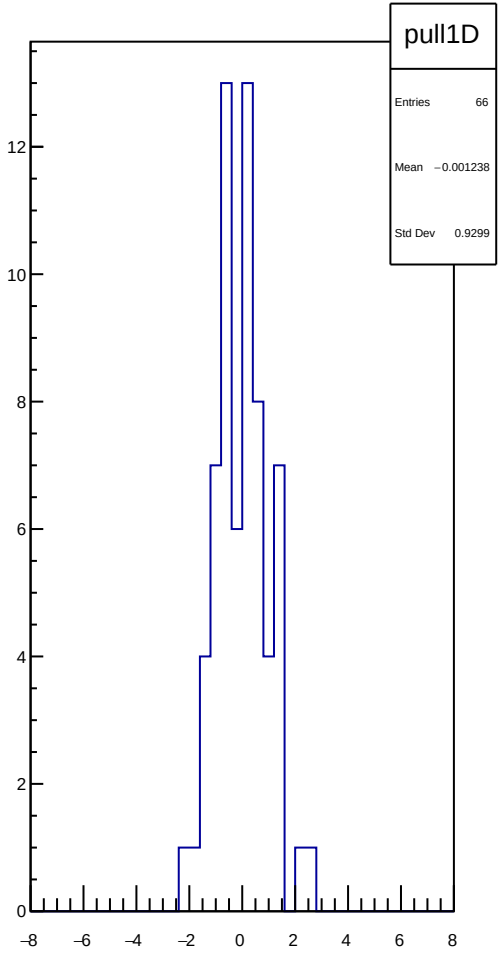

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1851 / 65
p0 9.488 ± 0.008355
10.6
10.4
10.2
10
9.8
9.6
9.4
9.2
9
8.8

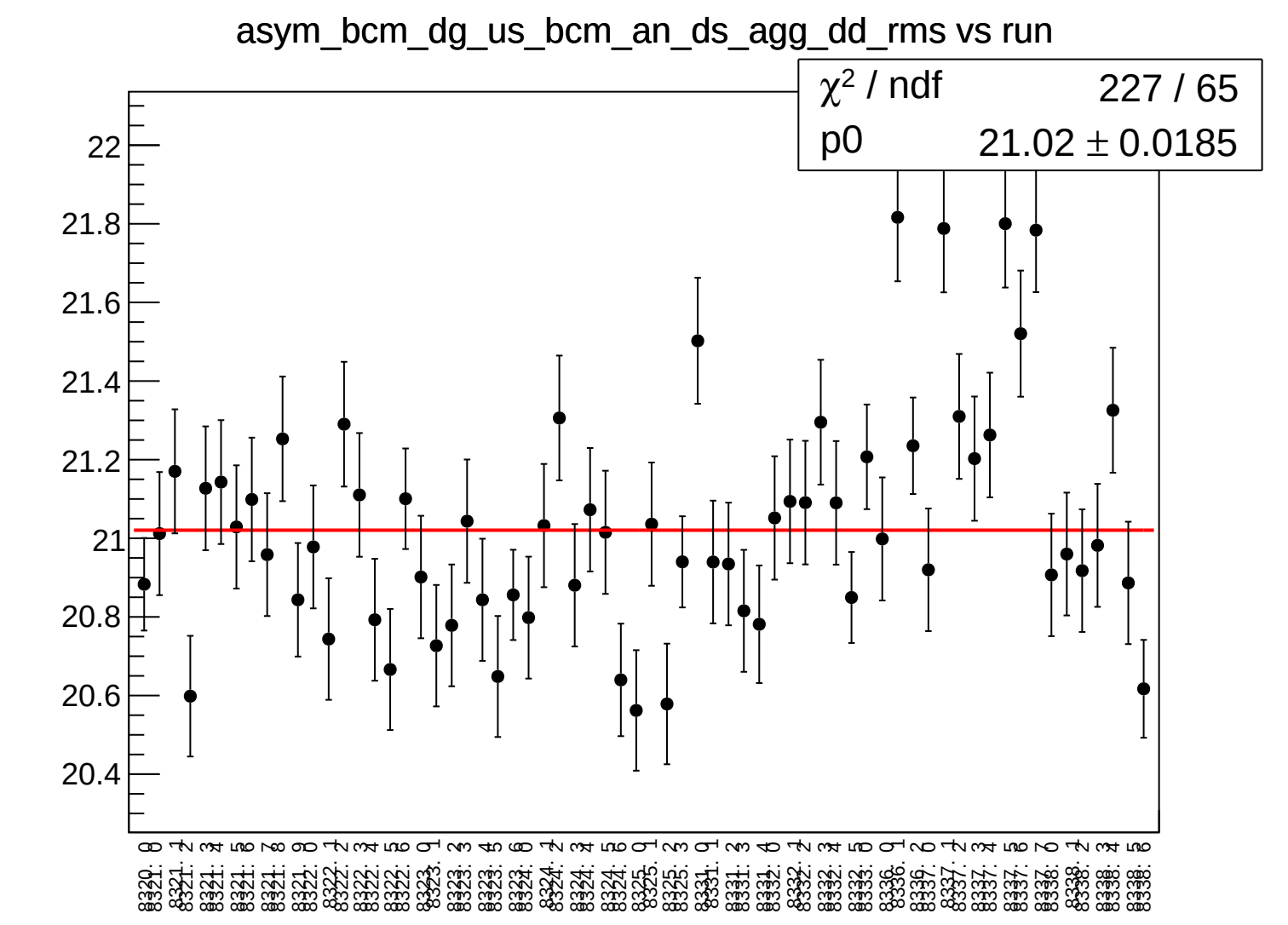

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.73 / 65
p0 174.9 ± 239.4
pull
Entries 66
Mean 435
Std Dev 431.9

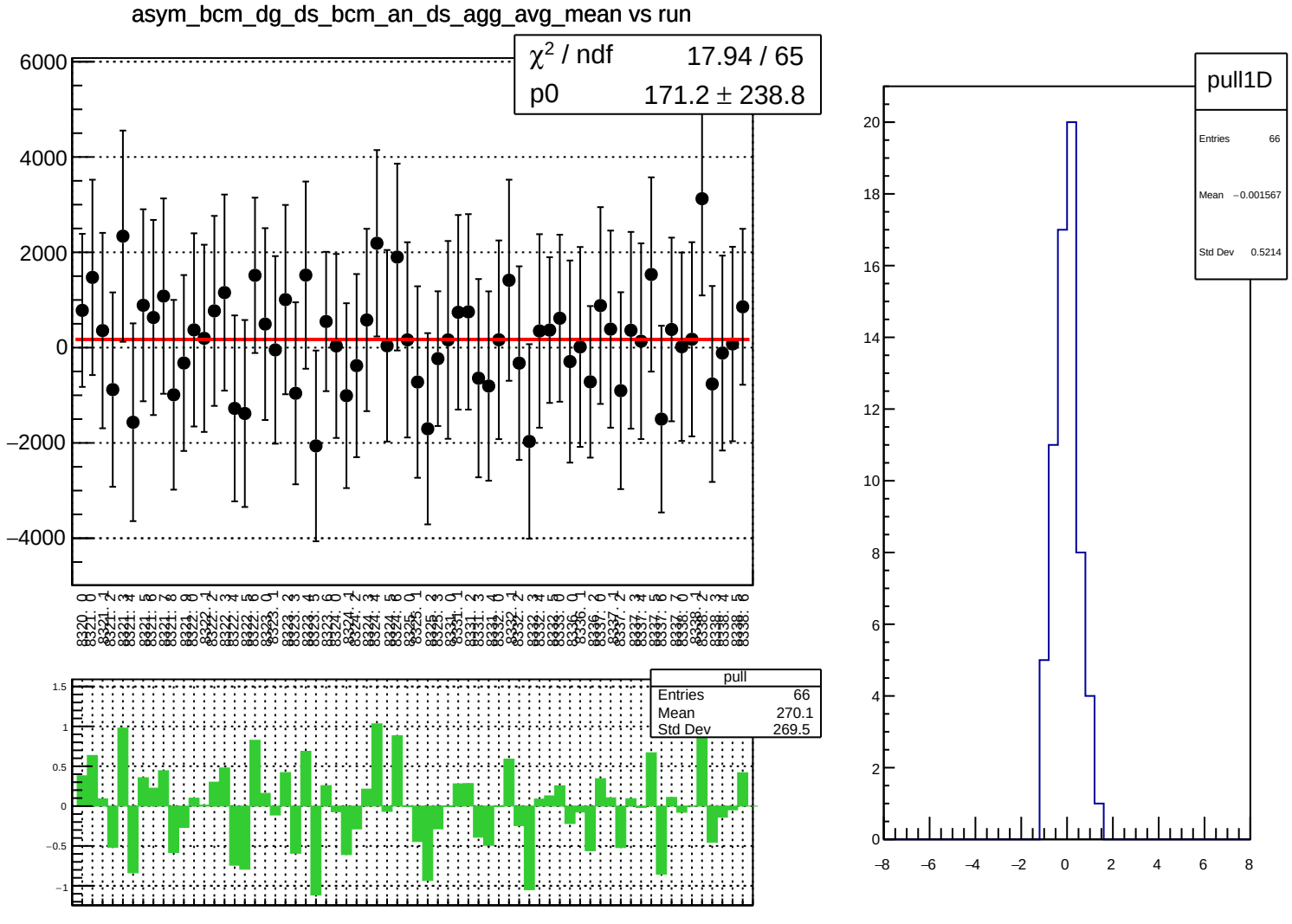

pull1D
Entries 66
Mean −0.000983
Std Dev 0.5327

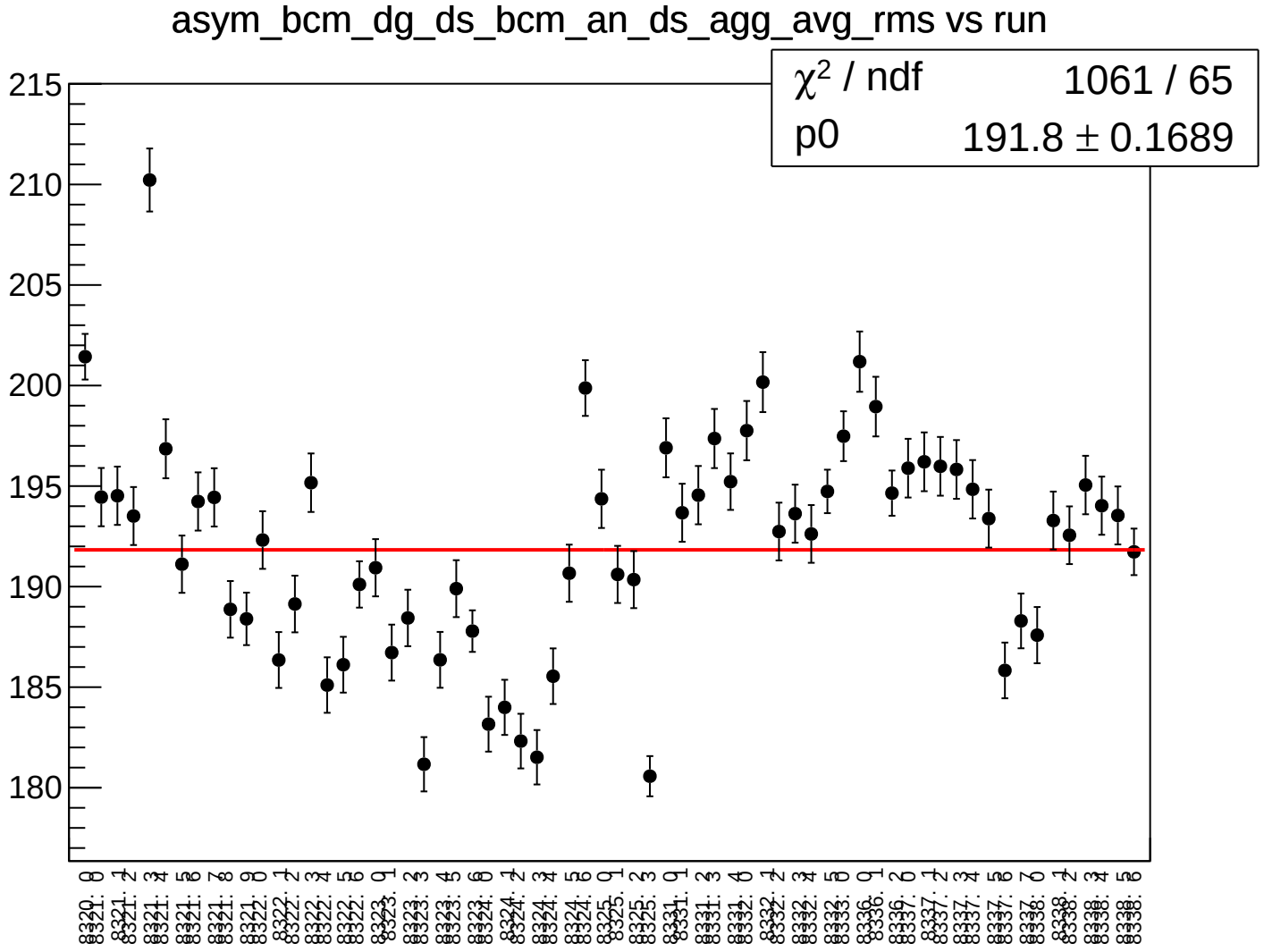

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1063 / 65
p0 192.3 ± 0.1693
215
210
205
200
195
190
185
180

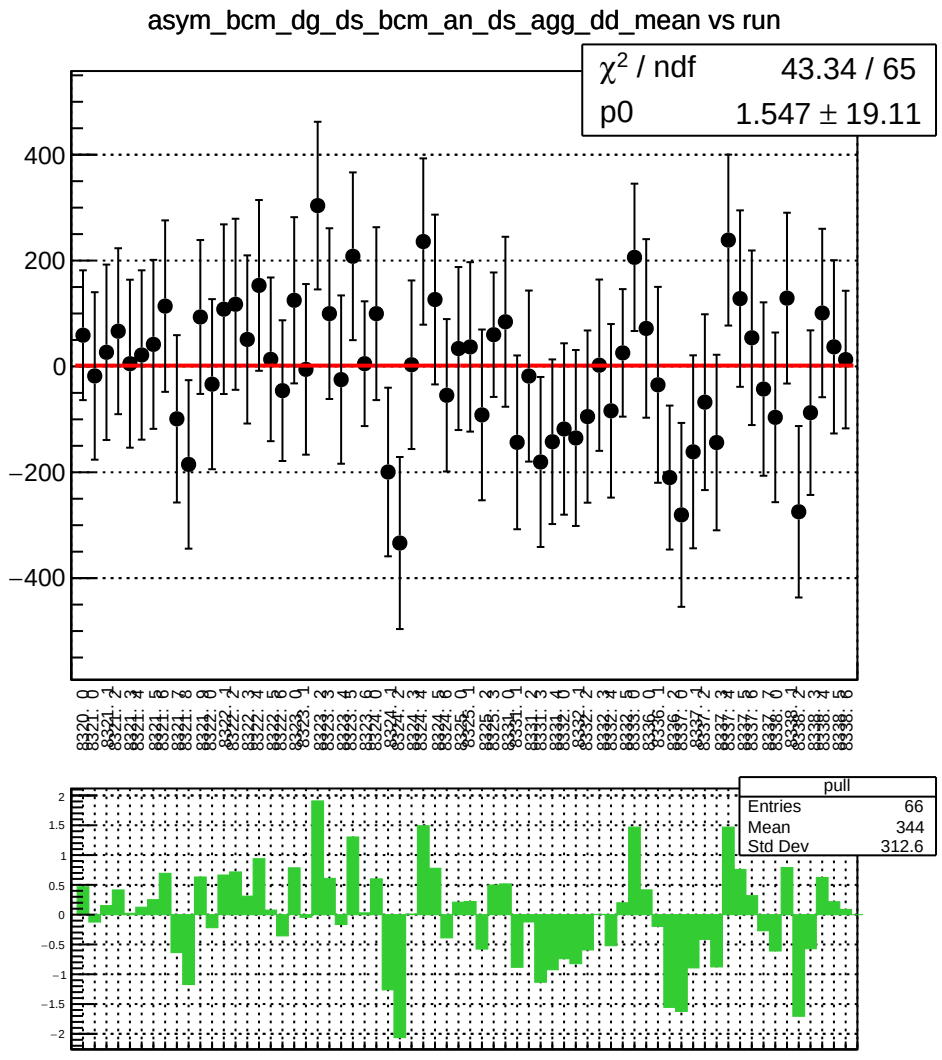

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 57.07 / 65
p0 5.186 ± 26.16
pull
Entries 66
Mean 2156
Std Dev 2123

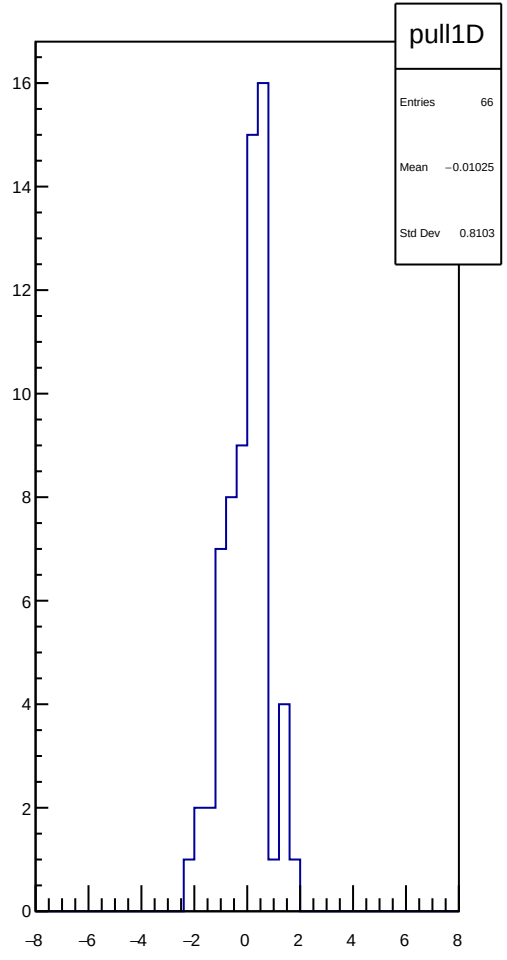

pull1D
Entries 66
Mean −0.001238
Std Dev 0.9299

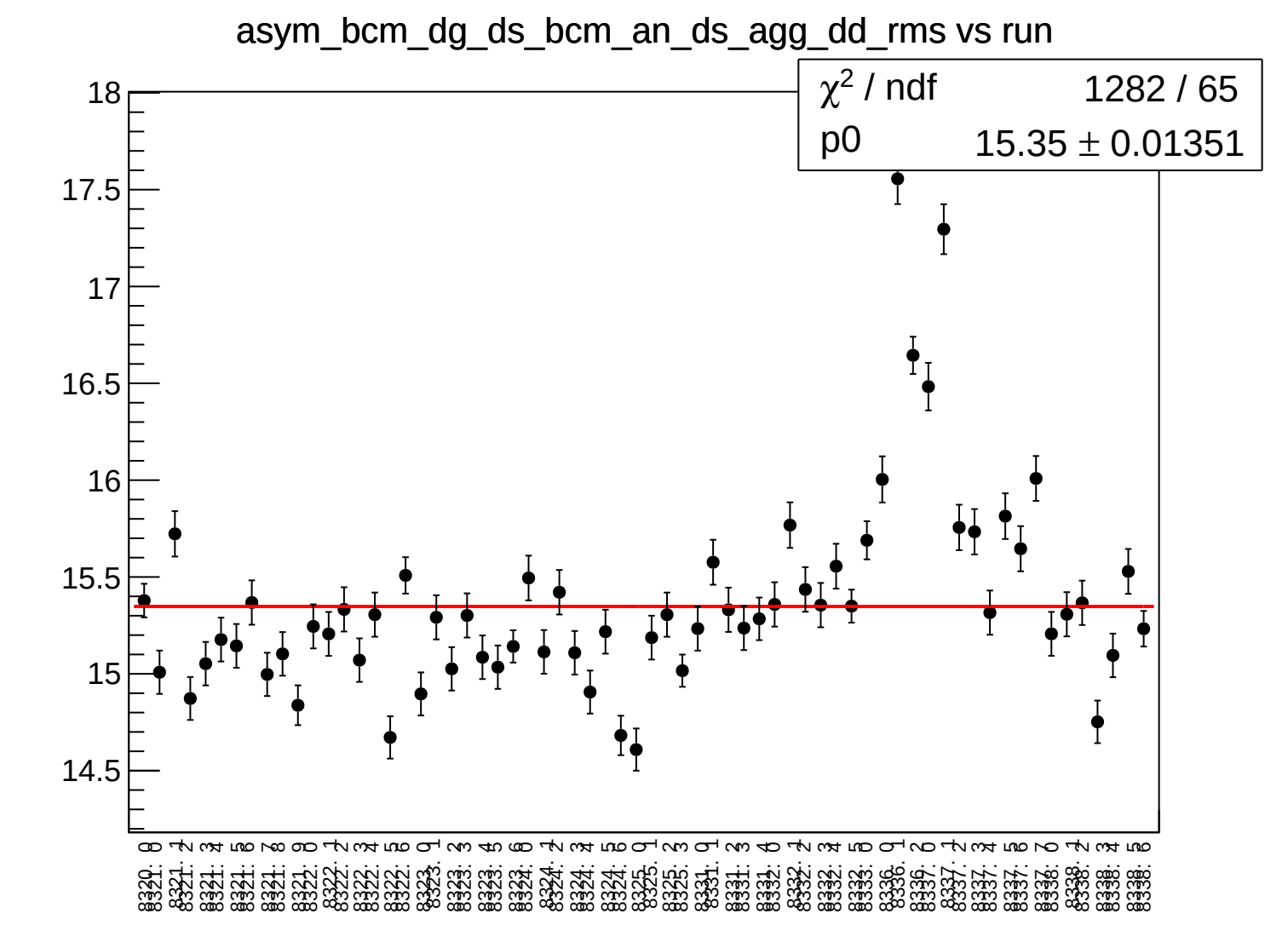

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 227 / 65
p0 21.02 ± 0.0185
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

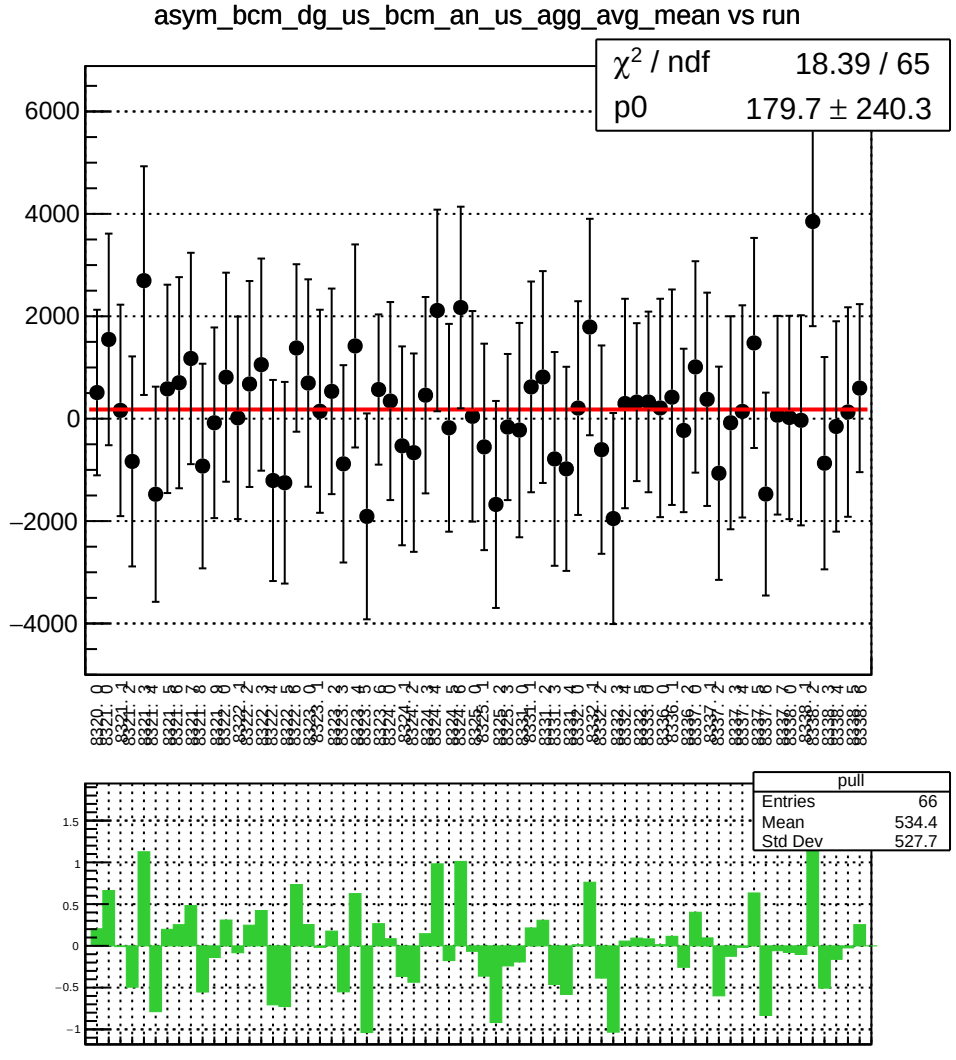

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 17.94 / 65
p0 171.2 ± 238.8
6000
4000
2000
0
−2000
−4000
pull
Entries 66
Mean 270.1
Std Dev 269.5
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 66
Mean −0.001567
Std Dev 0.5214
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

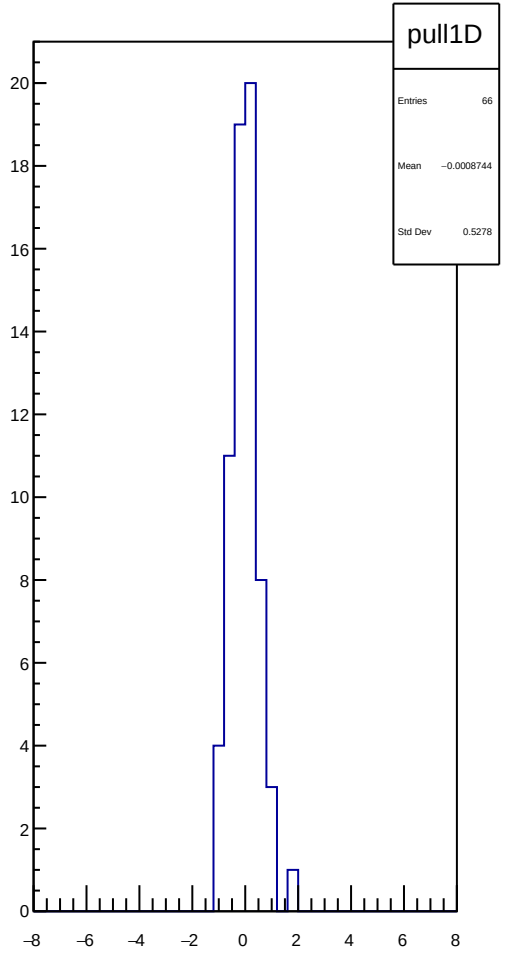

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1061 / 65
p0 191.8 ± 0.1689
215
210
205
200
195
190
185
180

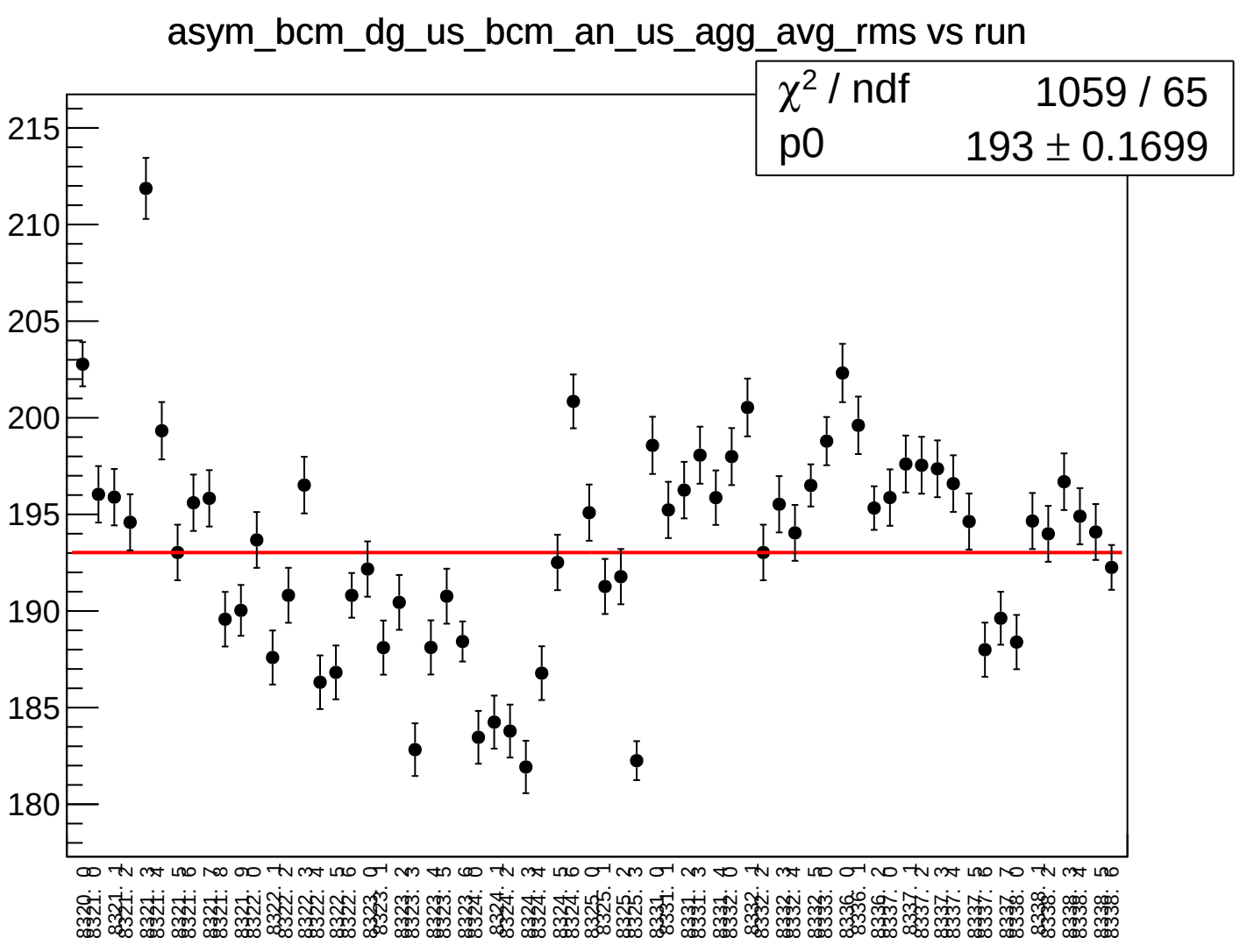

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 43.34 / 65
p0 1.547 ± 19.11
400
200
0
−200
−400
pull
Entries 66
Mean 344
Std Dev 312.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

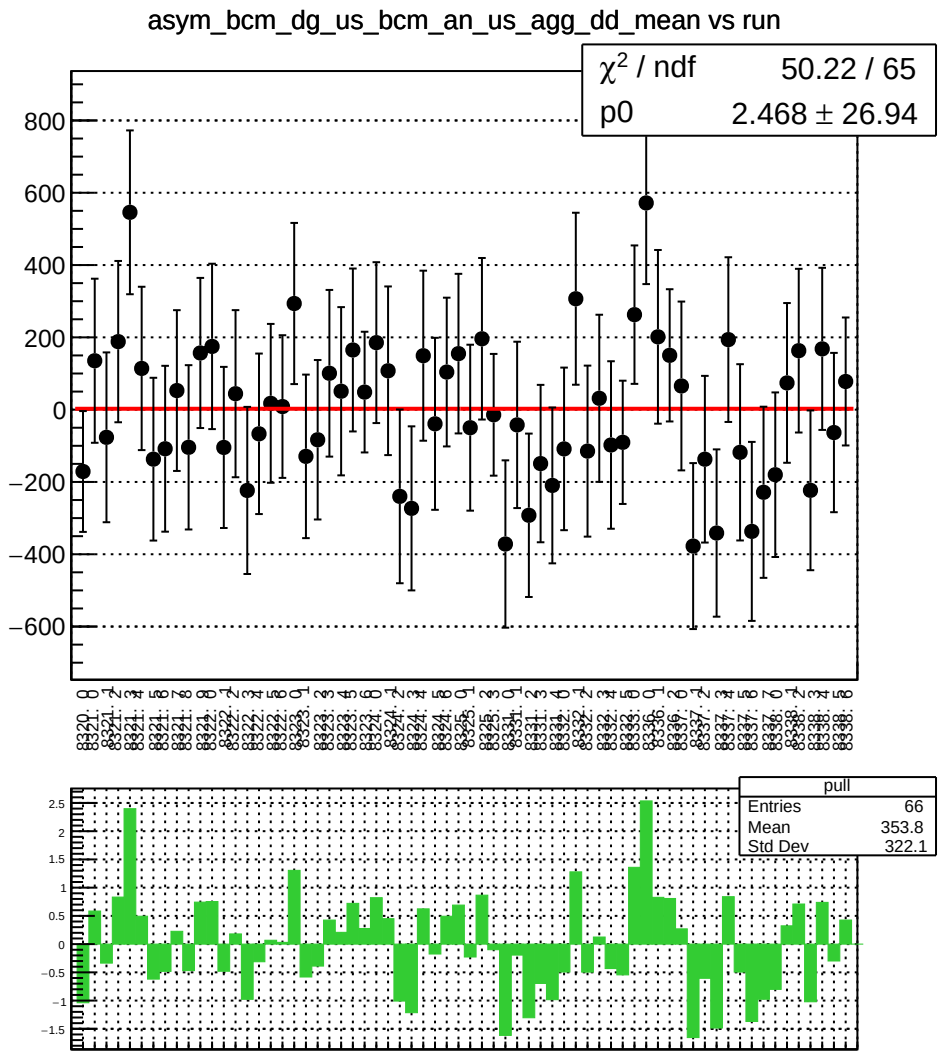

pull1D
Entries 66
Mean −0.01025
Std Dev 0.8103
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

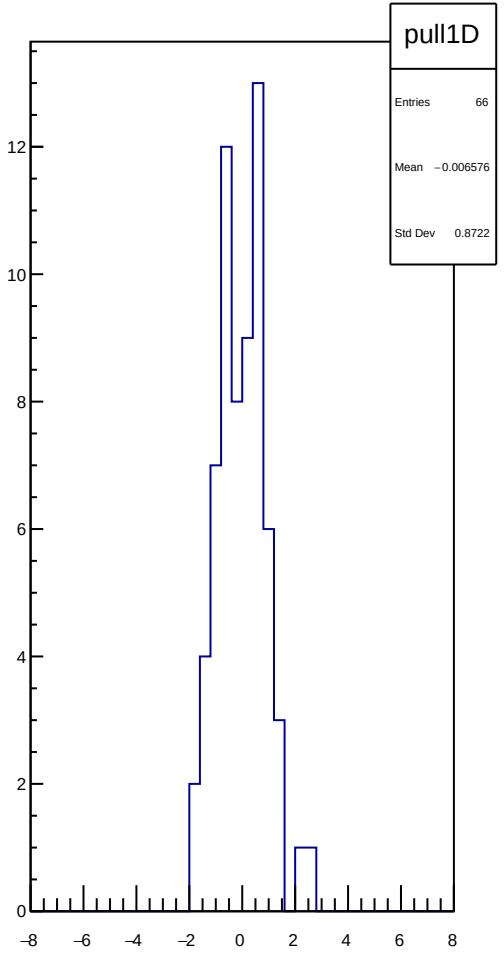

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1282 / 65
p0 15.35 ± 0.01351
18
17.5
17
16.5
16
15.5
15
14.5

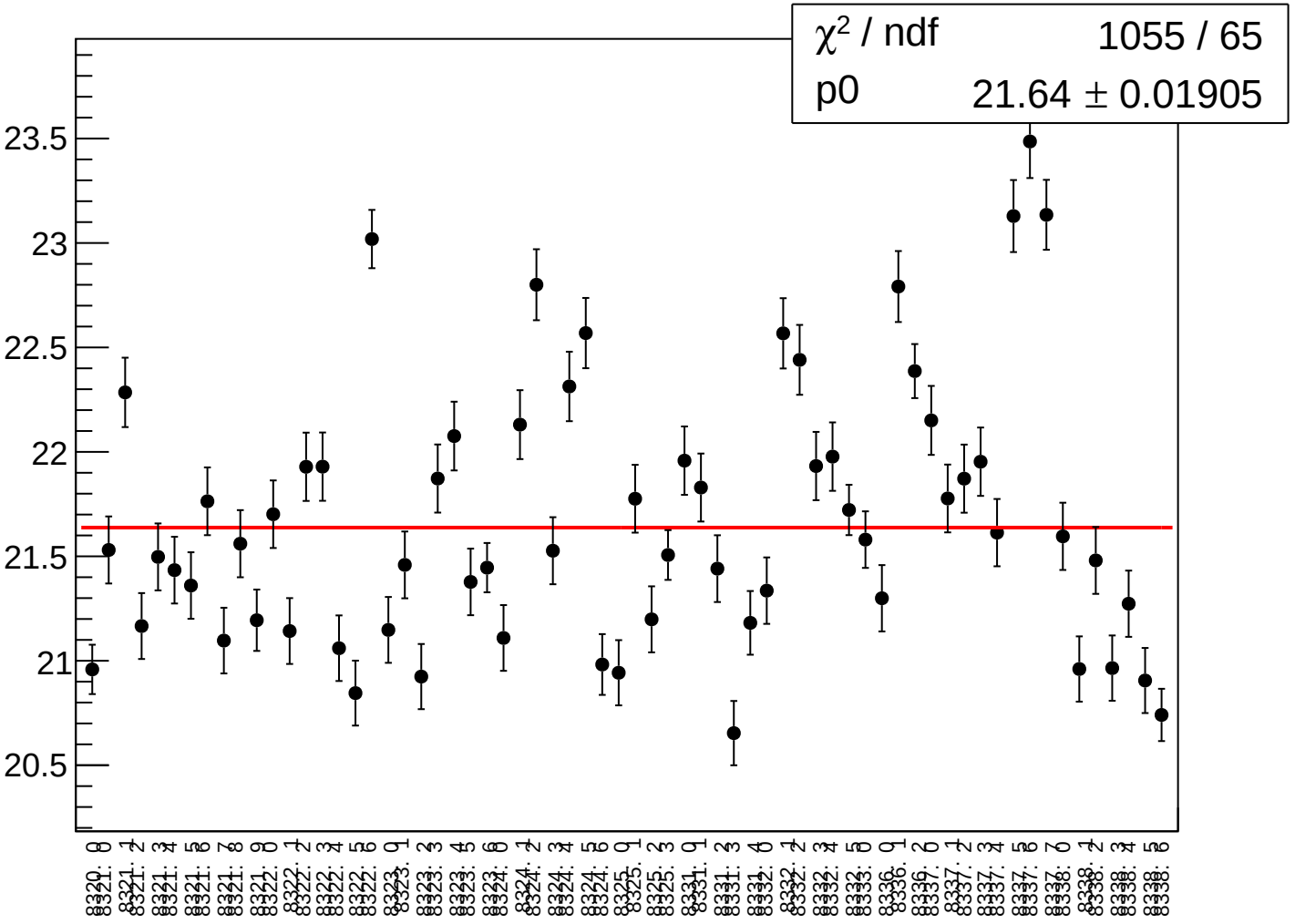

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 18.39 / 65
p0 179.7 ± 240.3
6000
4000
2000
0
−2000
−4000
pull
Entries 66
Mean 534.4
Std Dev 527.7
1.5
1
0.5
0
−0.5
−1

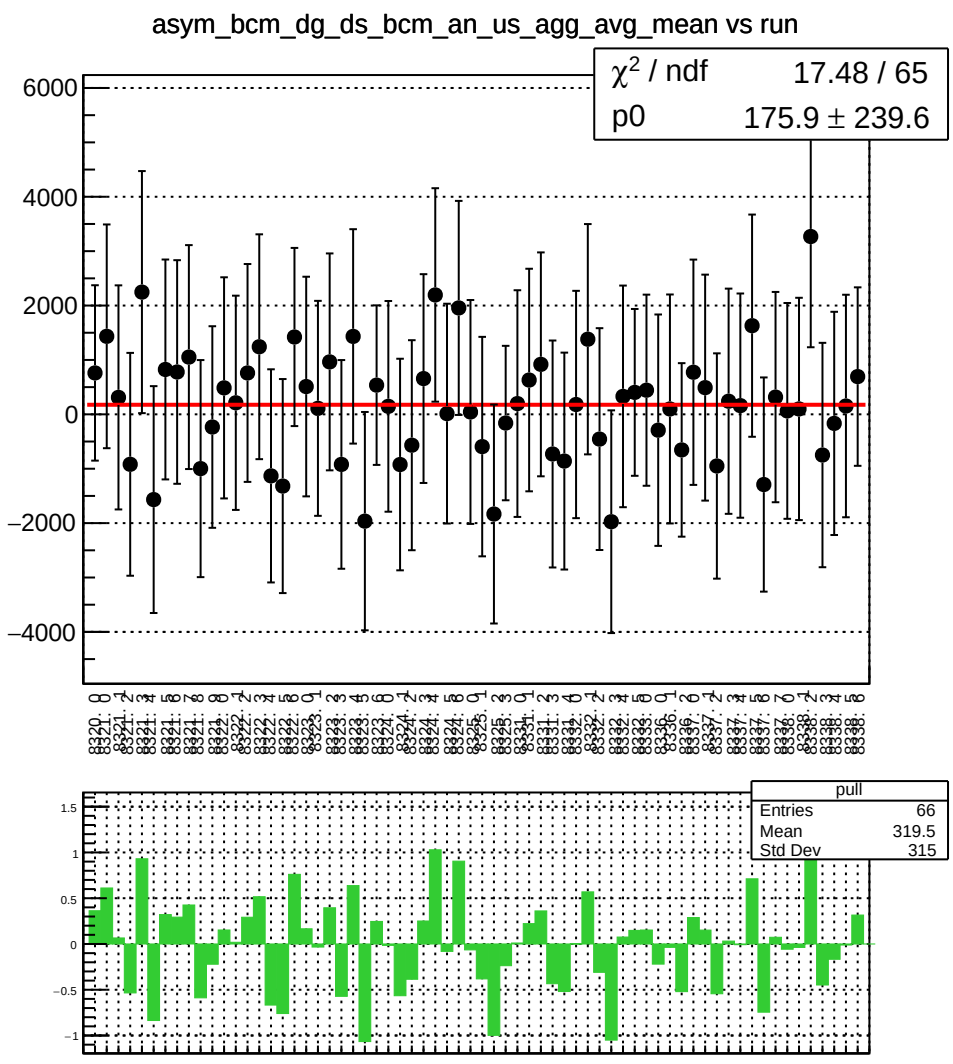

pull1D
Entries 66
Mean −0.0008744
Std Dev 0.5278
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

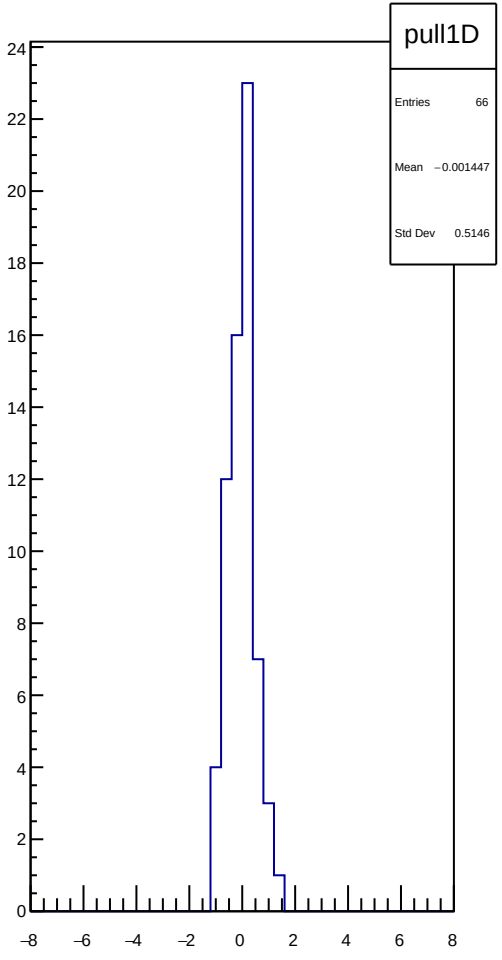

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1059 / 65
p0 193 ± 0.1699
215
210
205
200
195
190
185
180

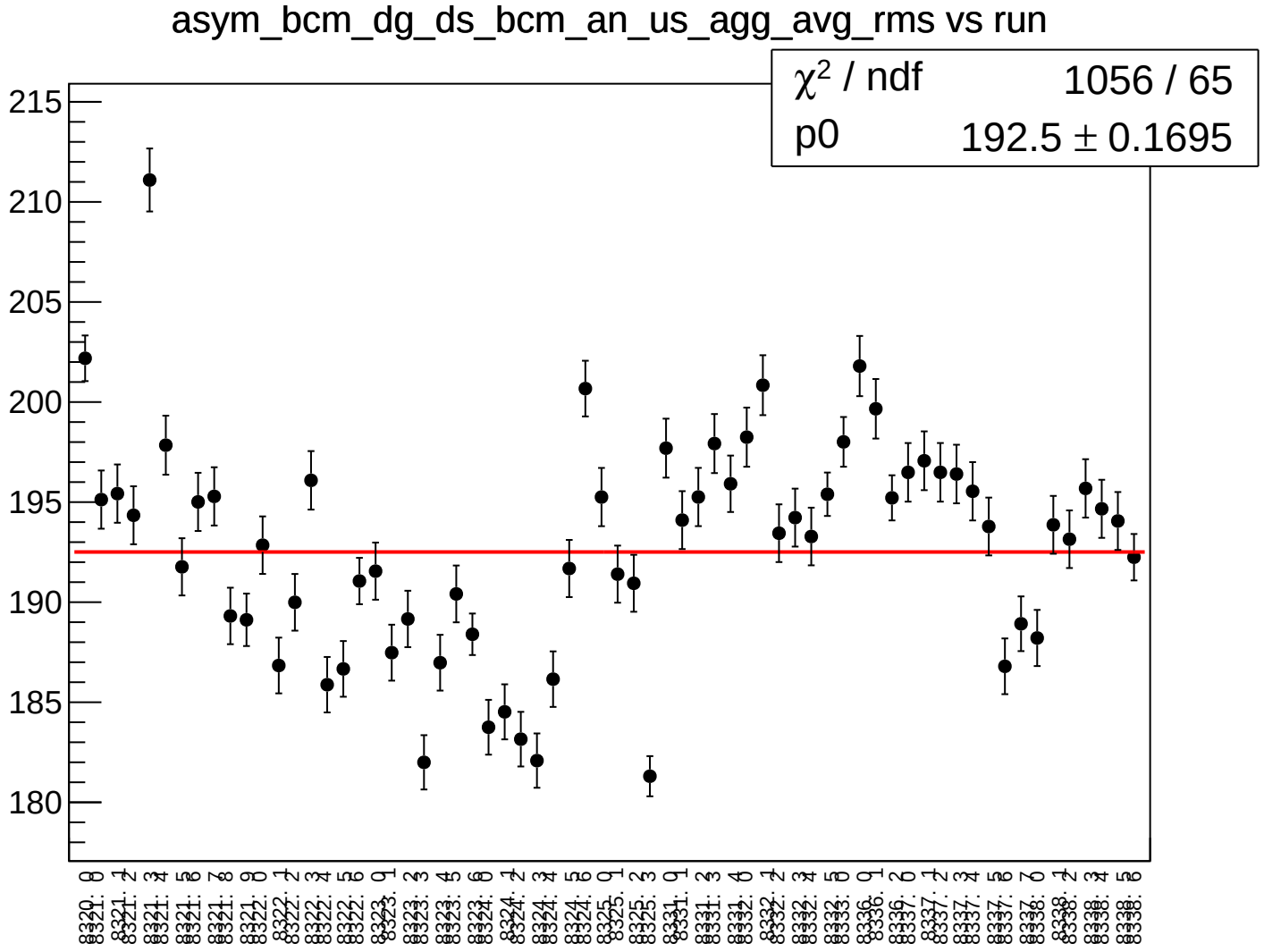

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.22 / 65
p0 2.468 ± 26.94
pull
Entries 66
Mean 353.8
Std Dev 322.1

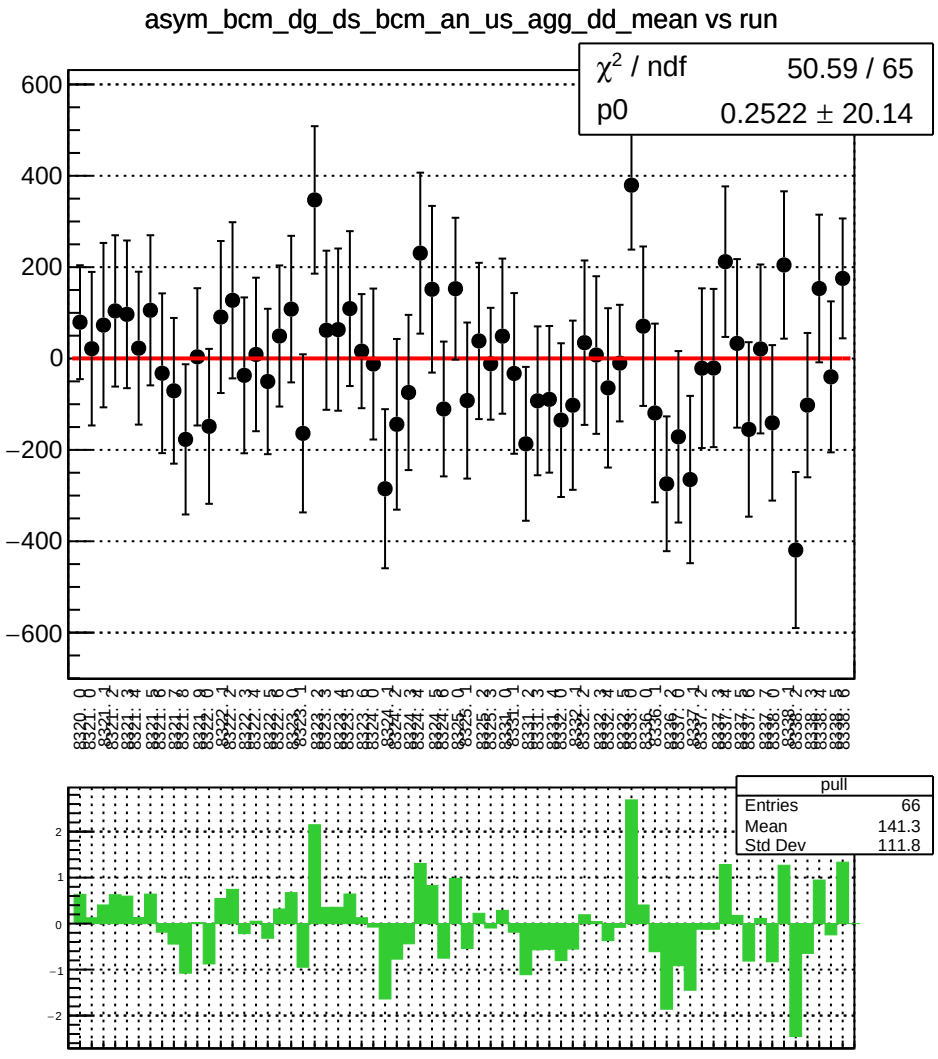

pull1D
Entries 66
Mean −0.006576
Std Dev 0.8722

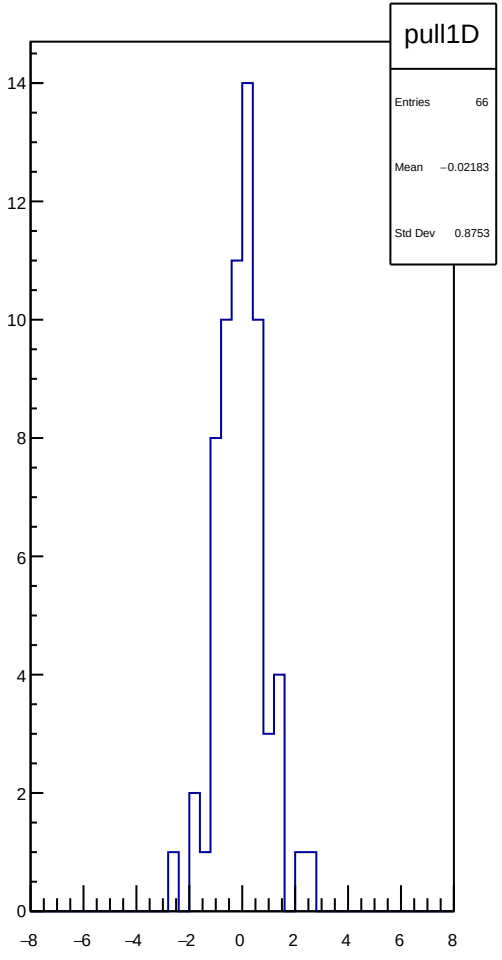

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1055 / 65
p0 21.64 ± 0.01905
23.5
23
22.5
22
21.5
21
20.5

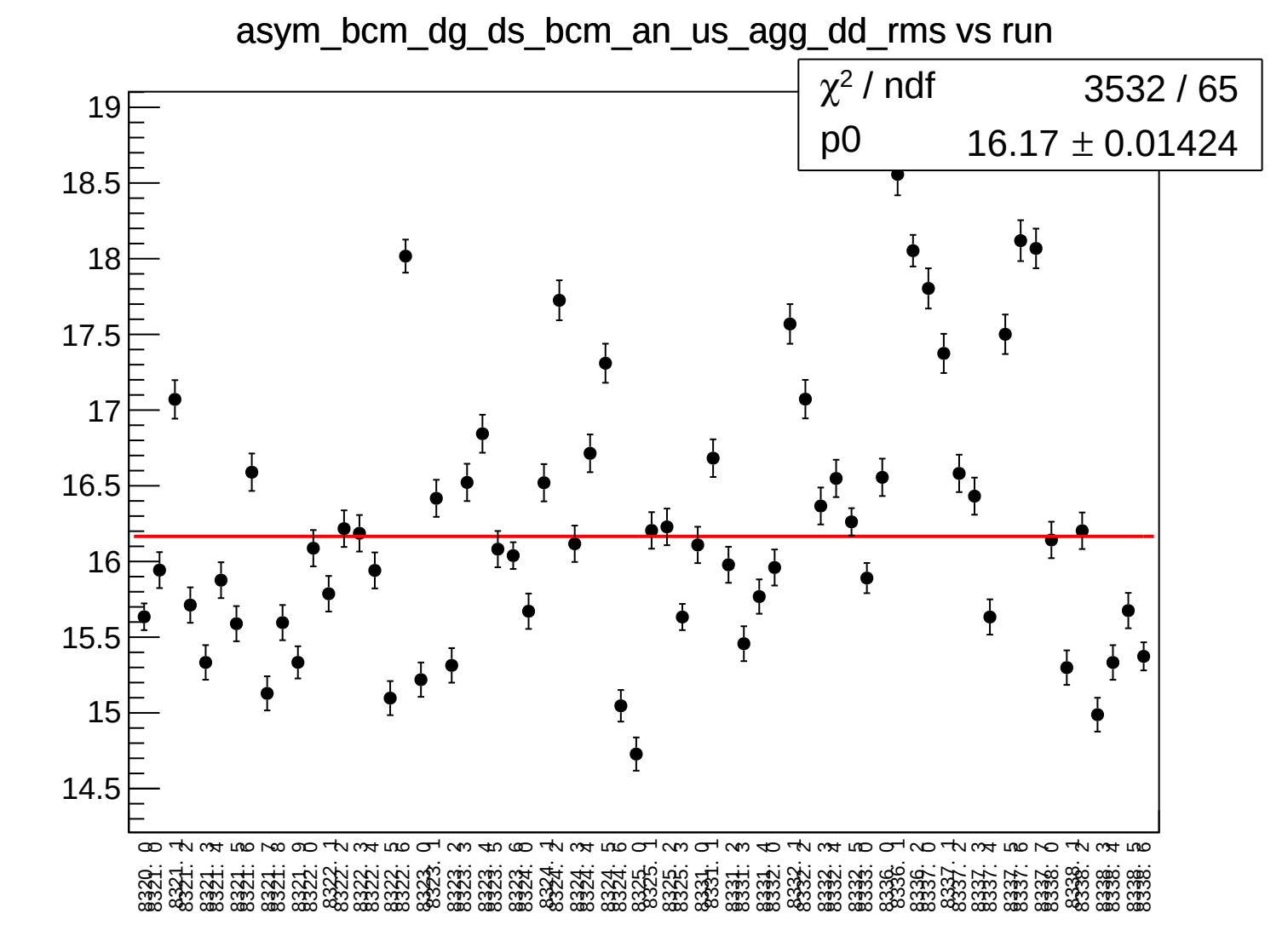

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.48 / 65
p0 175.9 ± 239.6
pull
Entries 66
Mean 319.5
Std Dev 315

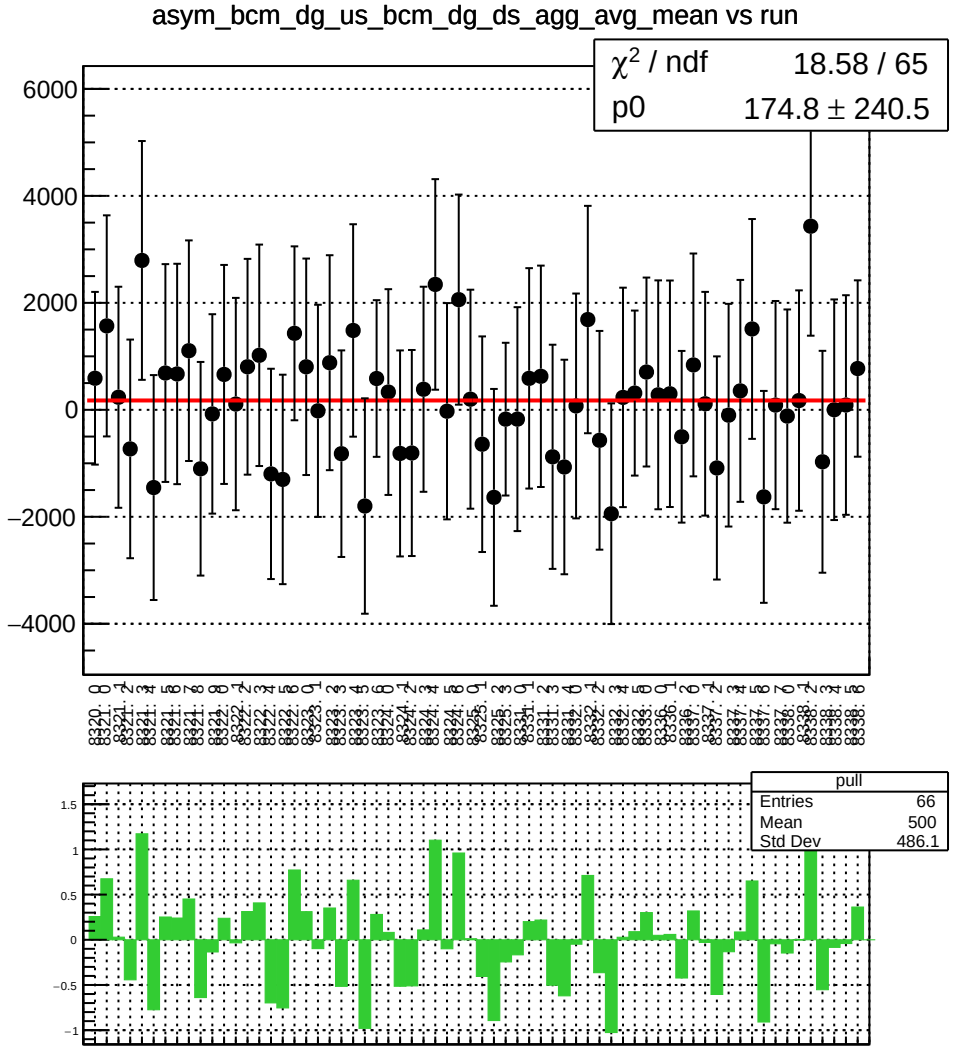

pull1D
Entries 66
Mean −0.001447
Std Dev 0.5146

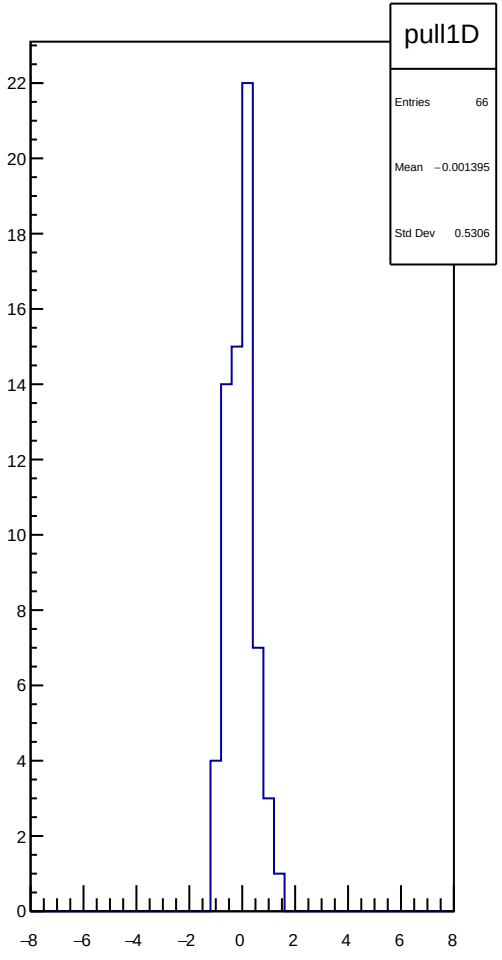

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1056 / 65
p0 192.5 ± 0.1695
215
210
205
200
195
190
185
180

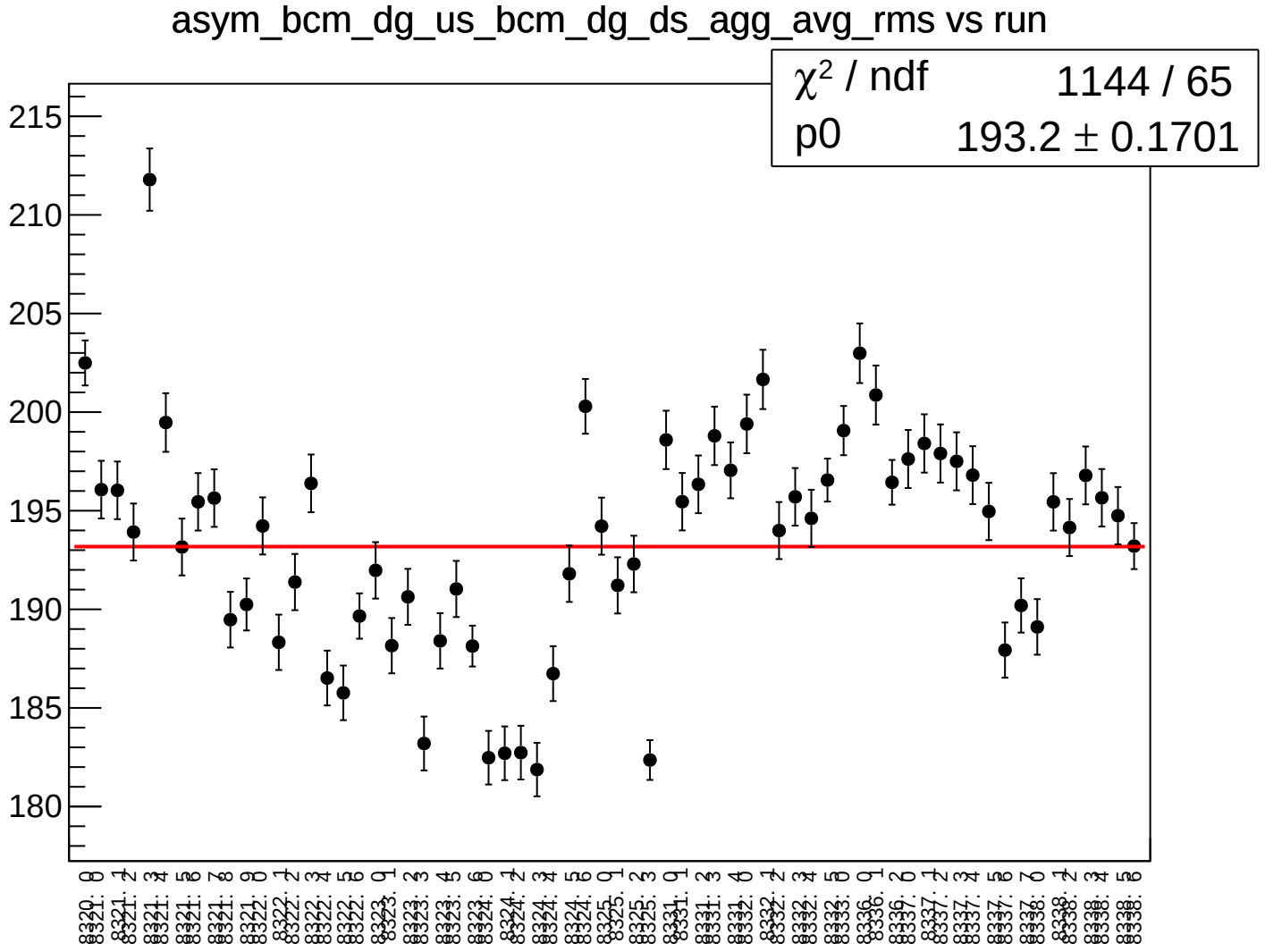

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 50.59 / 65
p0 0.2522 ± 20.14
pull
Entries 66
Mean 141.3
Std Dev 111.8

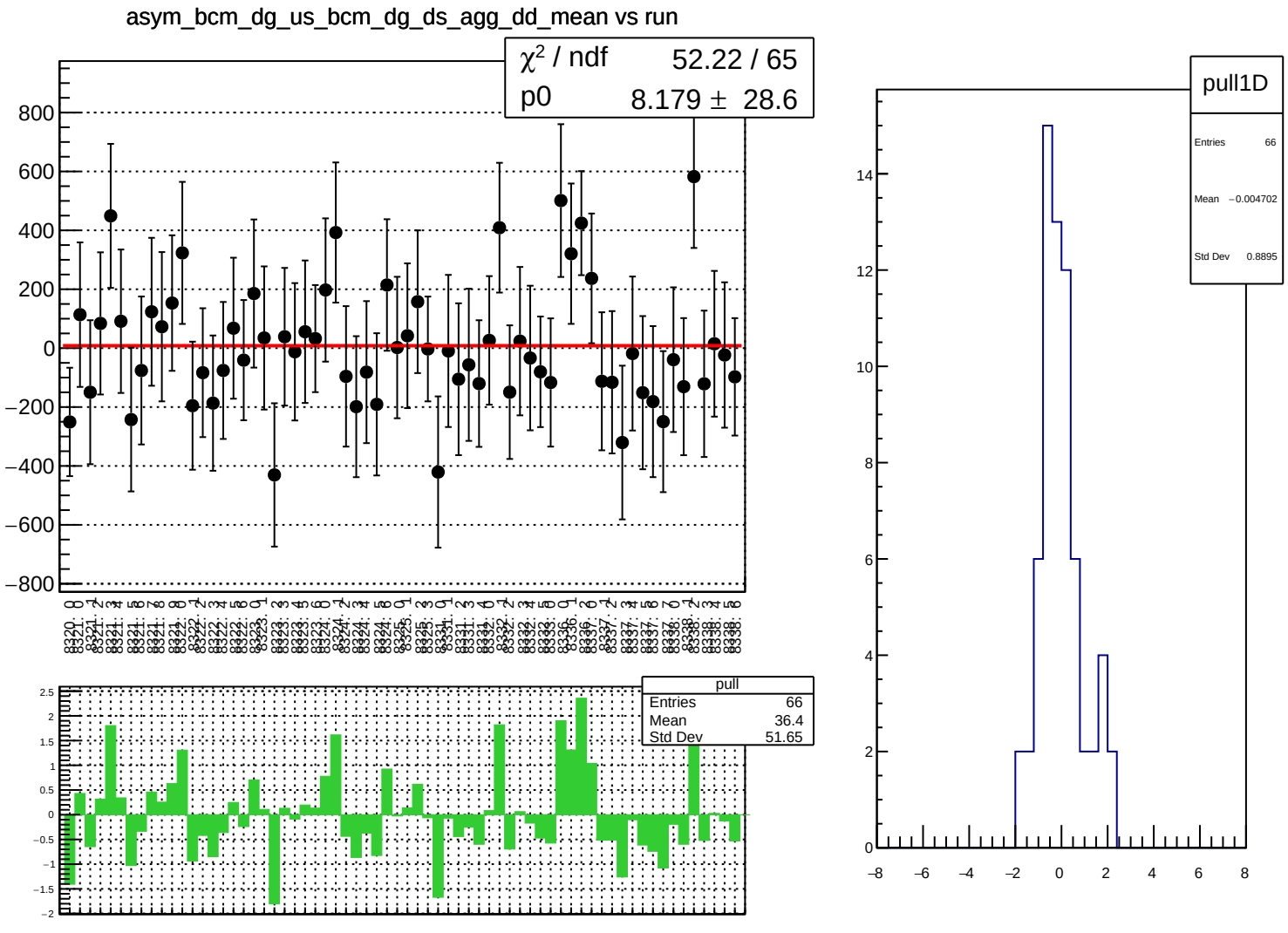

pull1D
Entries 66
Mean −0.02183
Std Dev 0.8753

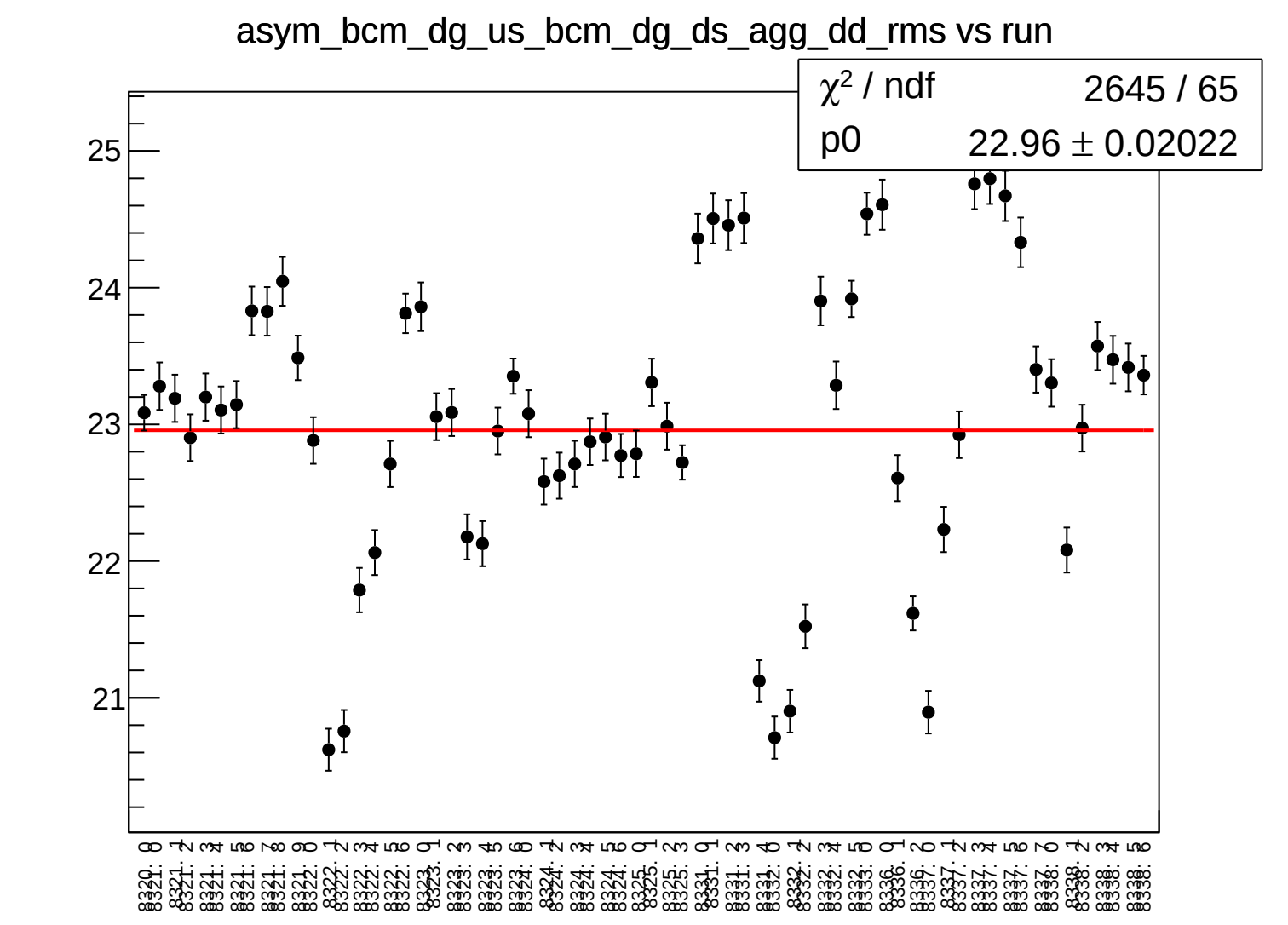

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3532 / 65
p0 16.17 ± 0.01424
19
18.5
18
17.5
17
16.5
16
15.5
15
14.5

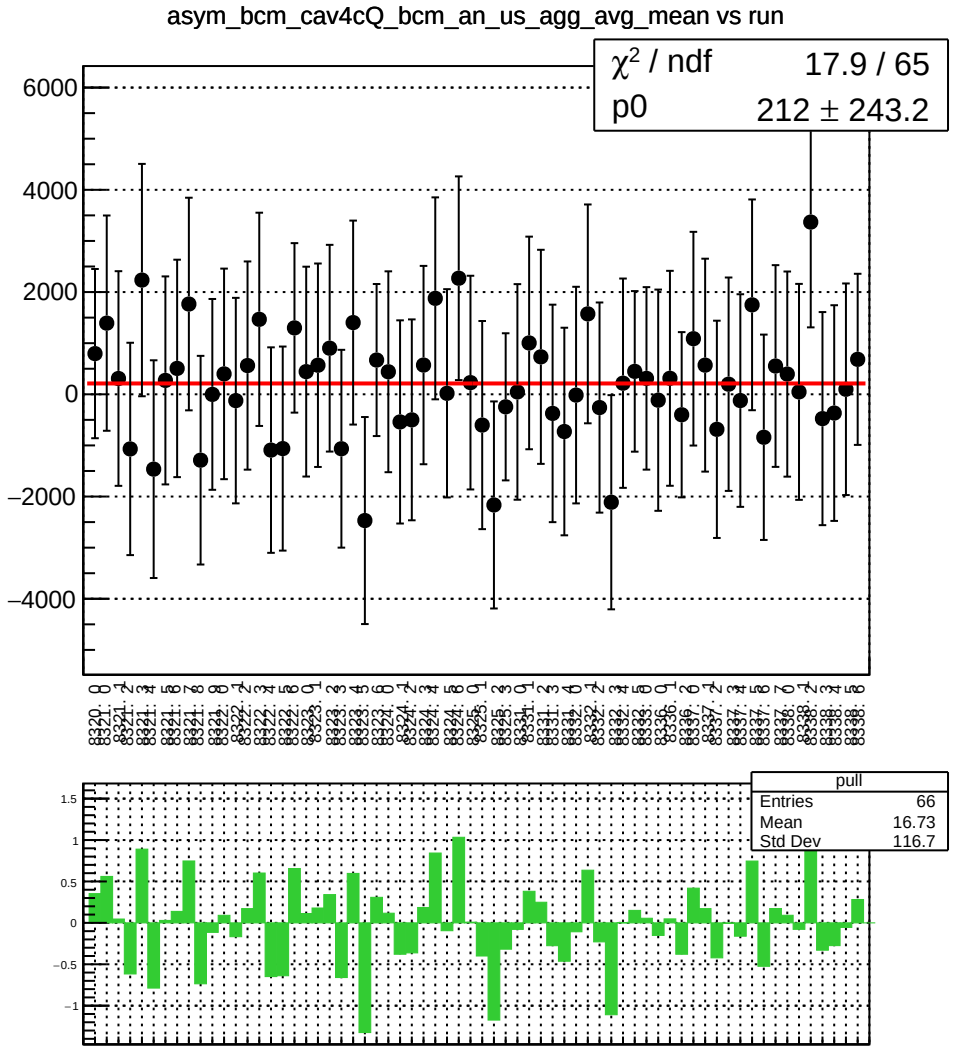

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.58 / 65
p0 174.8 ± 240.5
pull
Entries 66
Mean 500
Std Dev 486.1

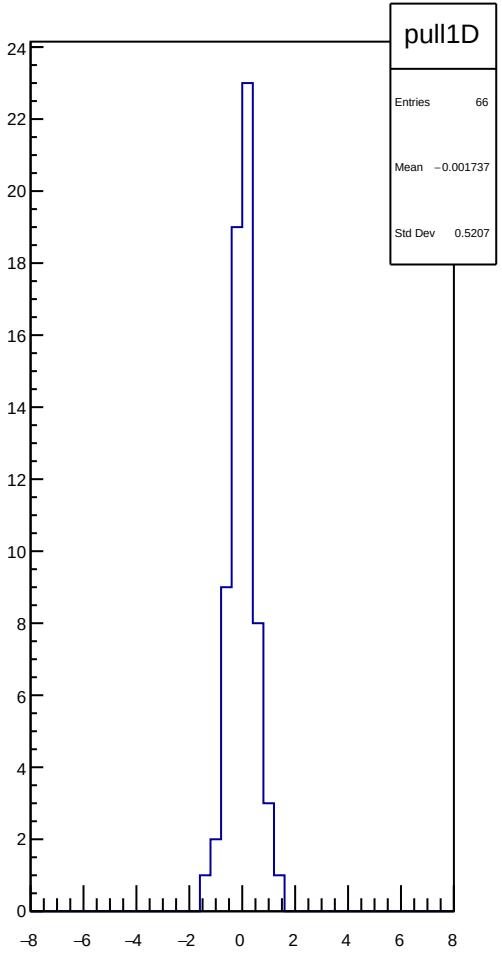

pull1D
Entries 66
Mean −0.001395
Std Dev 0.5306

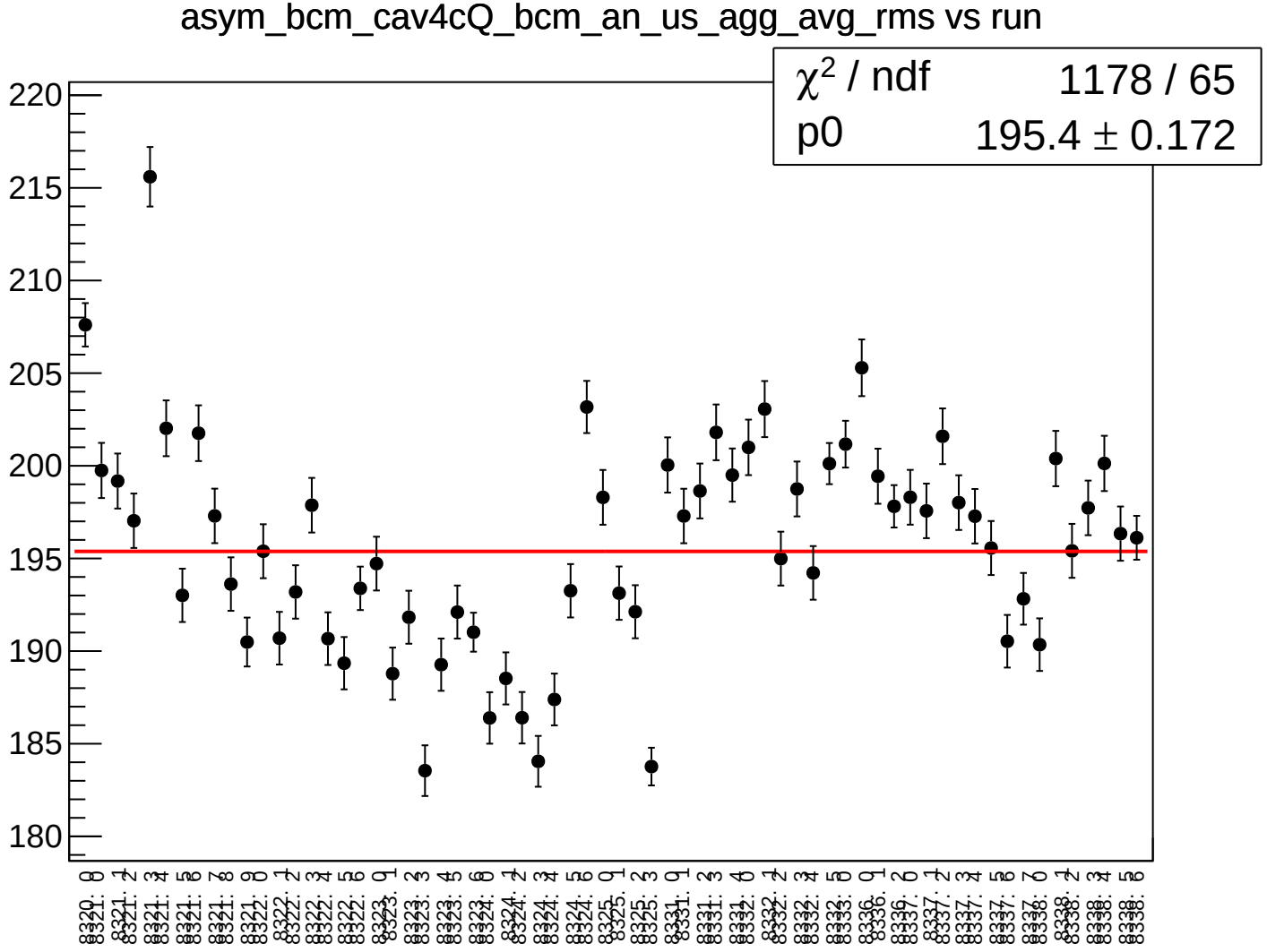

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1144 / 65
p0 193.2 ± 0.1701
215
210
205
200
195
190
185
180

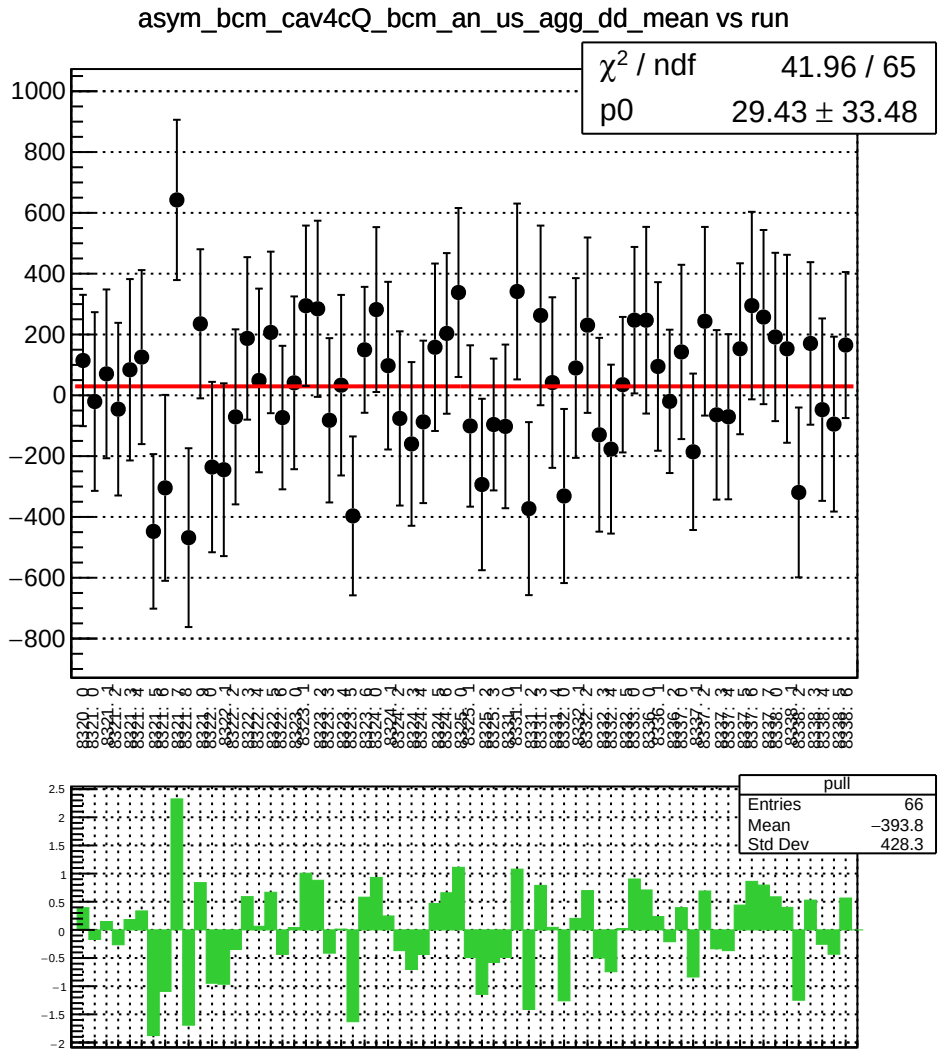

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 52.22 / 65
p0 8.179 ± 28.6
pull
Entries 66
Mean 36.4
Std Dev 51.65
pull1D
Entries 66
Mean −0.004702
Std Dev 0.8895

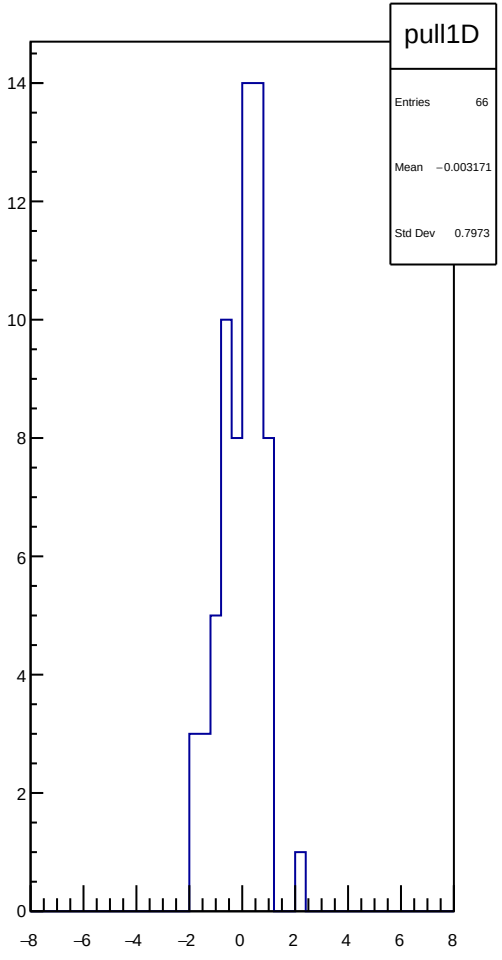

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2645 / 65
p0 22.96 ± 0.02022
25
24
23
22
21

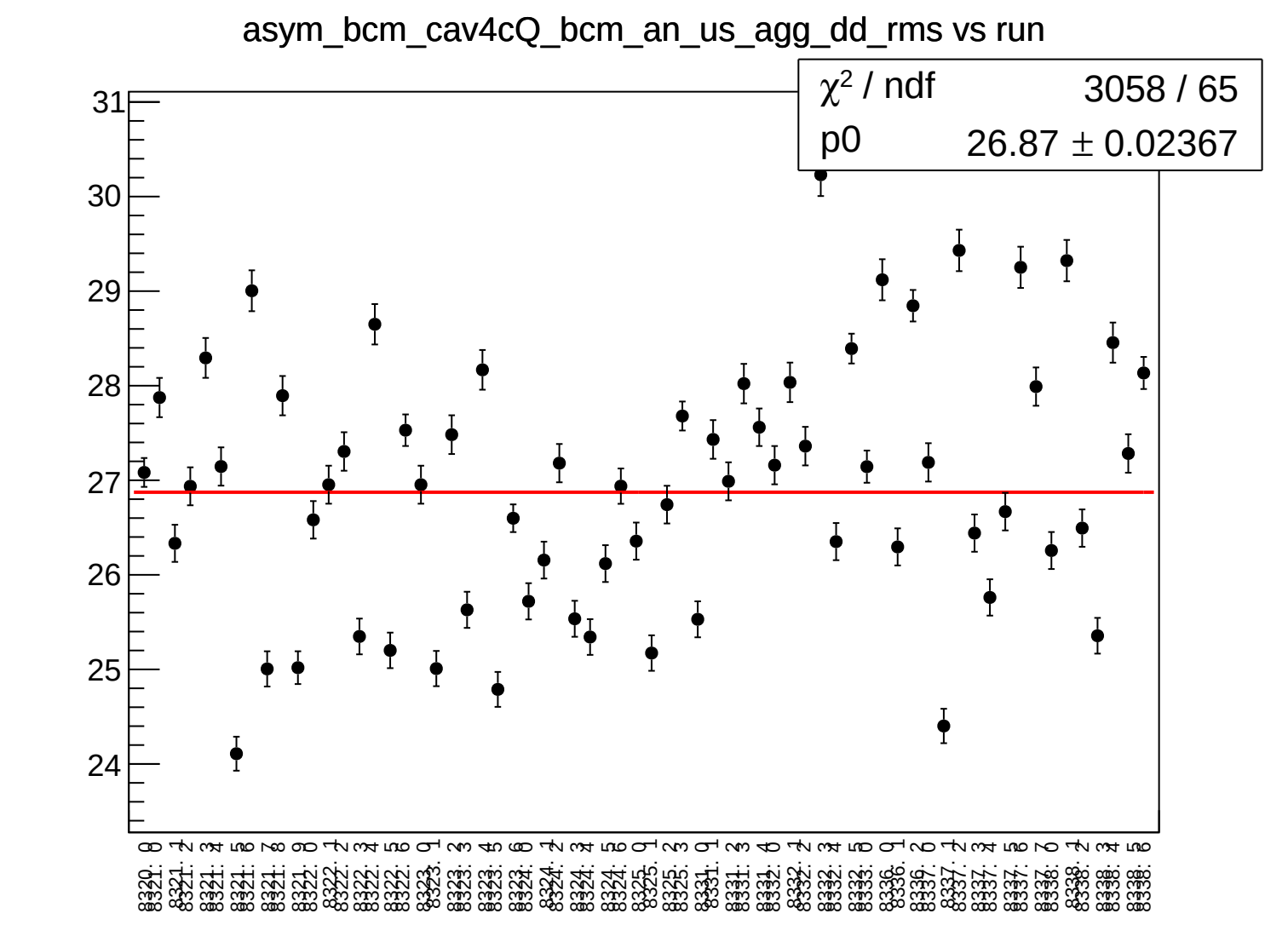

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.9 / 65
p0 212 ± 243.2
pull
Entries 66
Mean 16.73
Std Dev 116.7

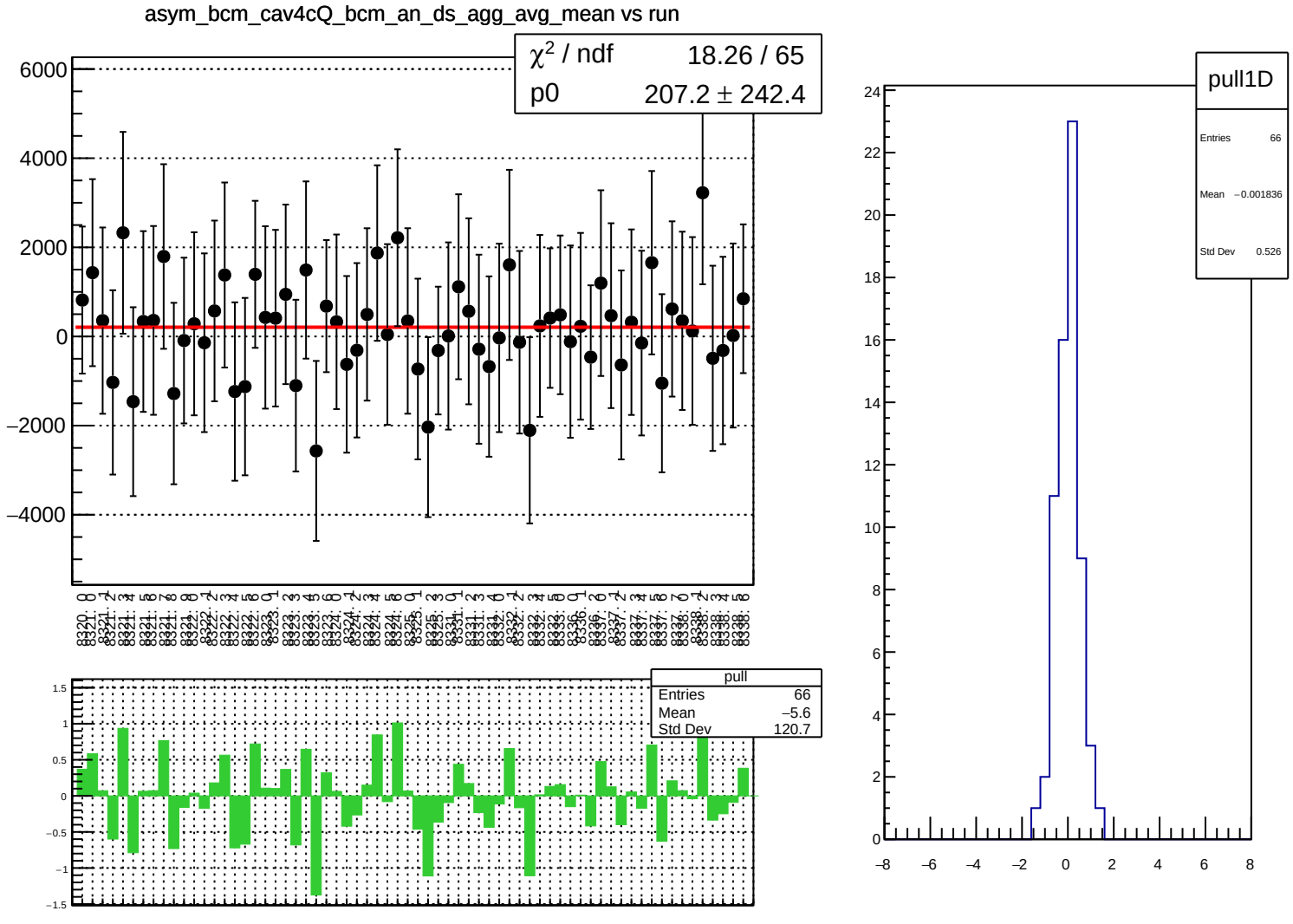

pull1D
Entries 66
Mean −0.001737
Std Dev 0.5207

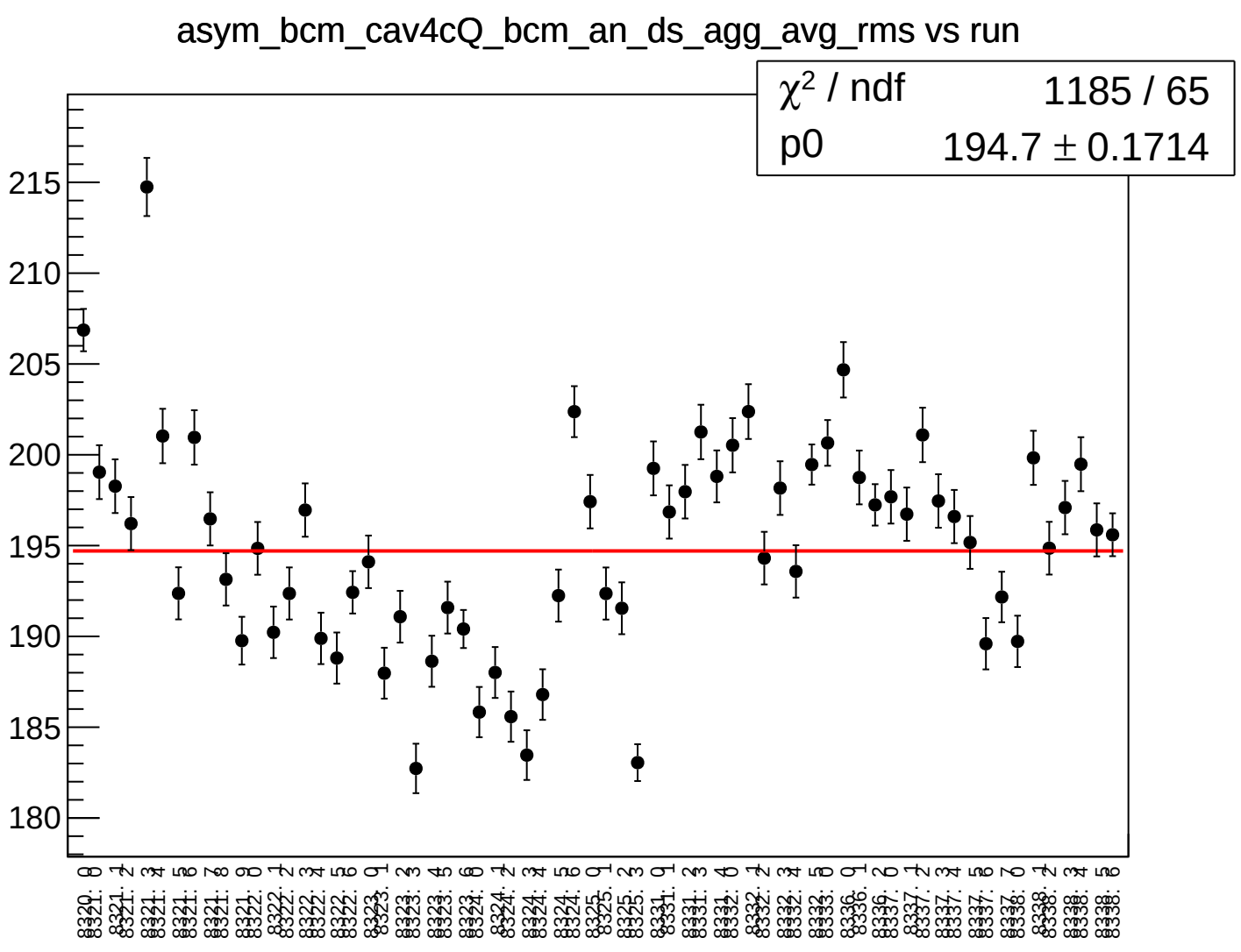

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1178 / 65
p0 195.4 ± 0.172
220
215
210
205
200
195
190
185
180

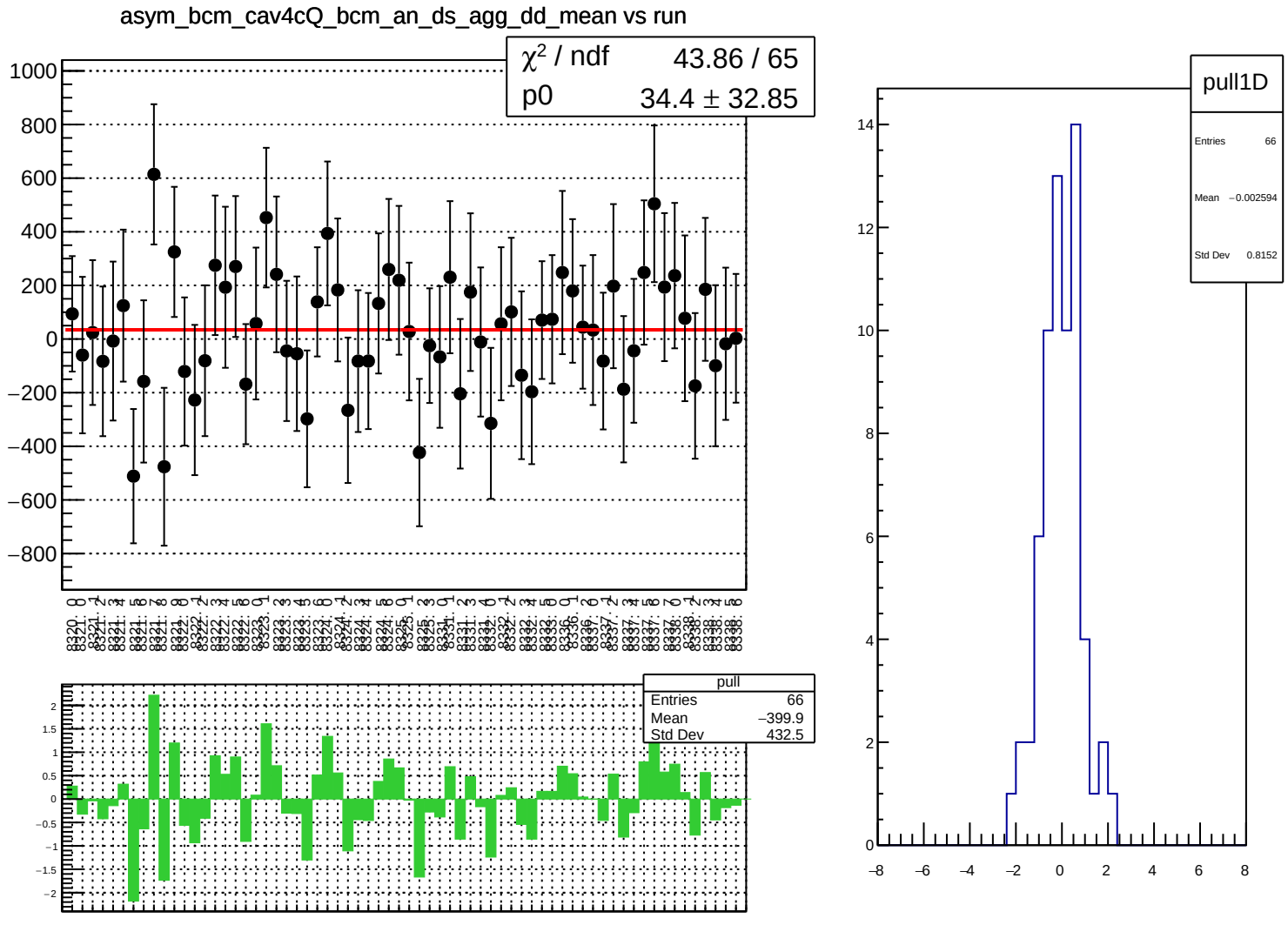

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 41.96 / 65
p0 29.43 ± 33.48
pull
Entries 66
Mean −393.8
Std Dev 428.3

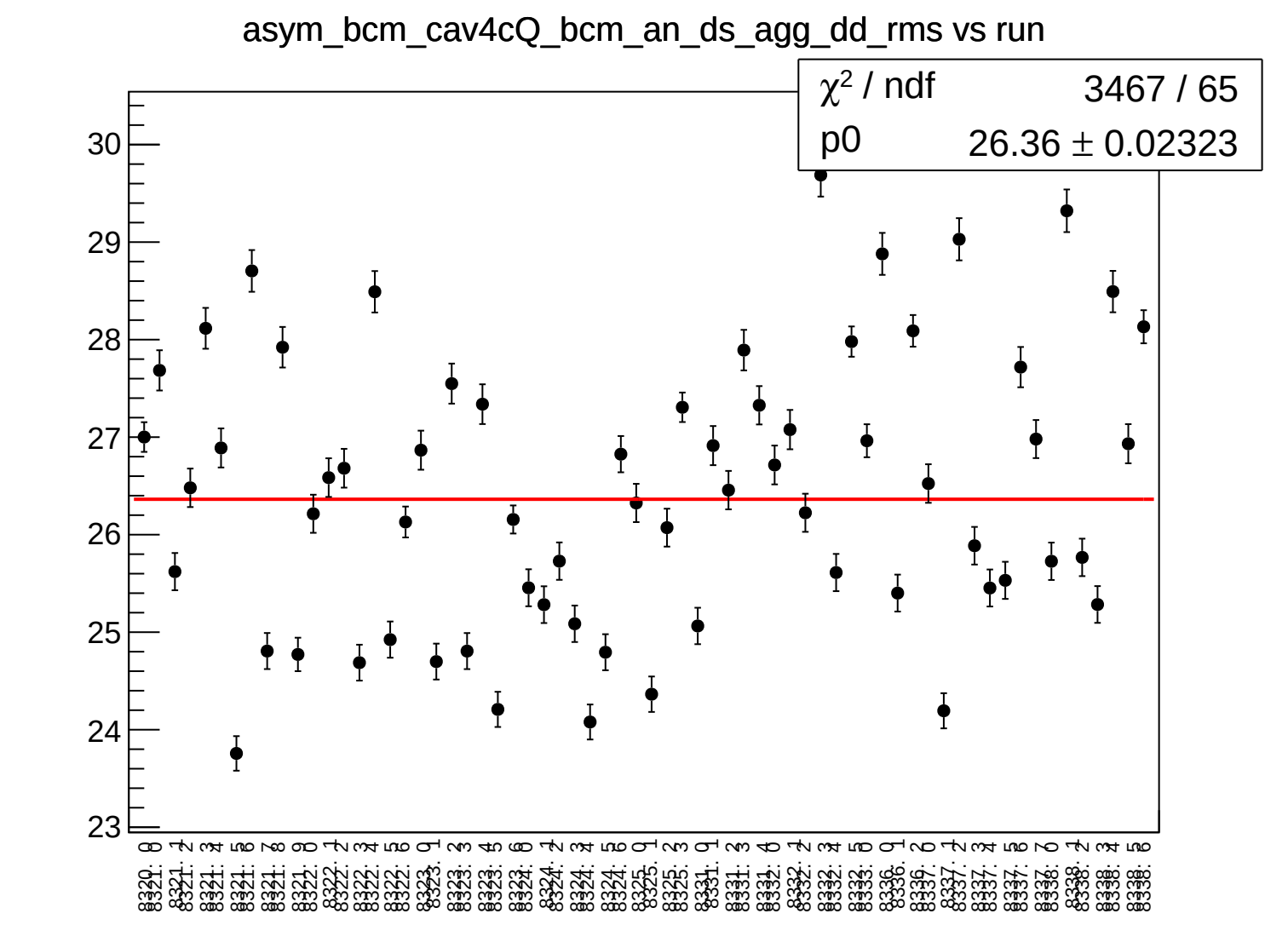

pull1D
Entries 66
Mean −0.003171
Std Dev 0.7973

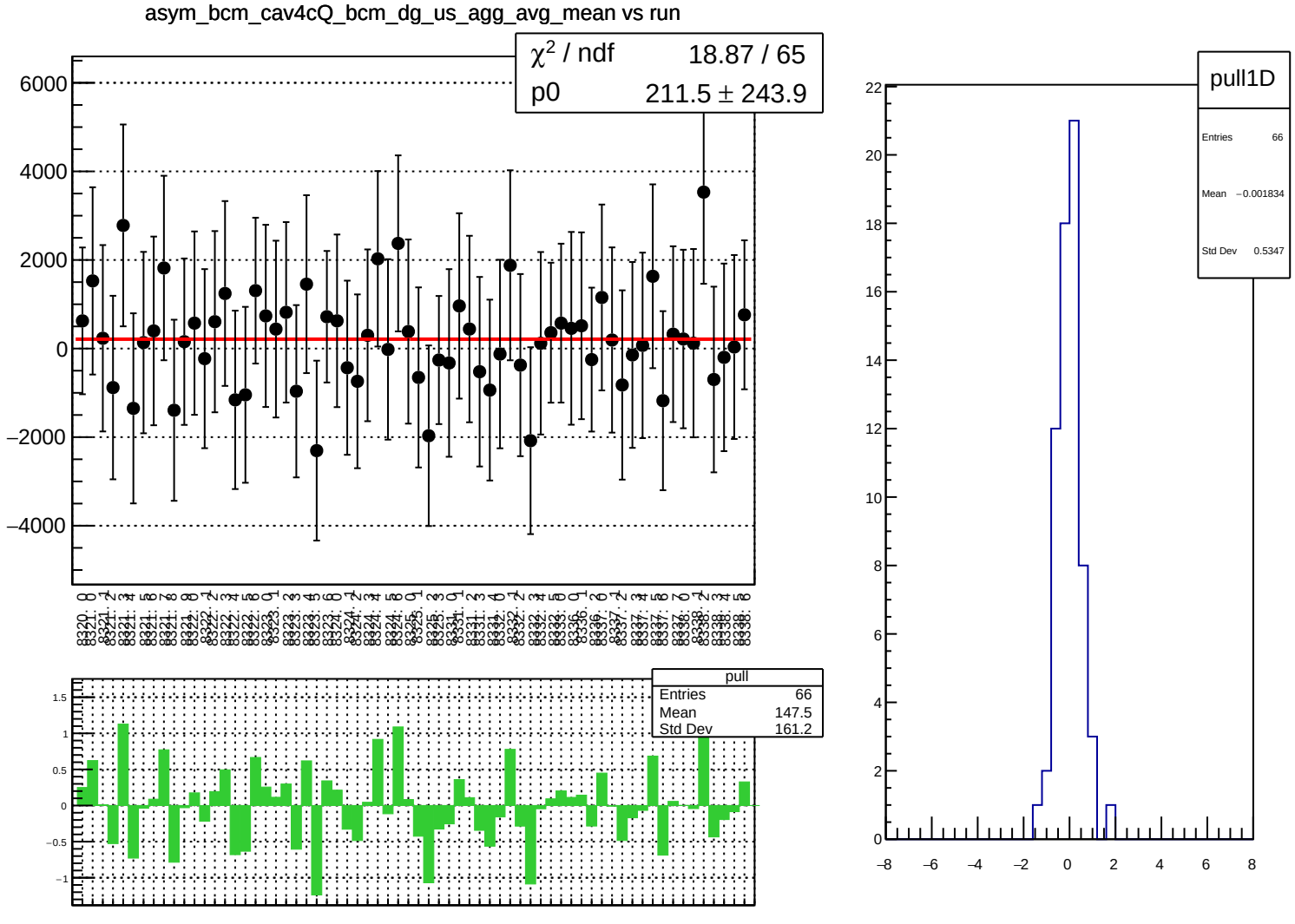

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3058 / 65
p0 26.87 ± 0.02367
31
30
29
28
27
26
25
24

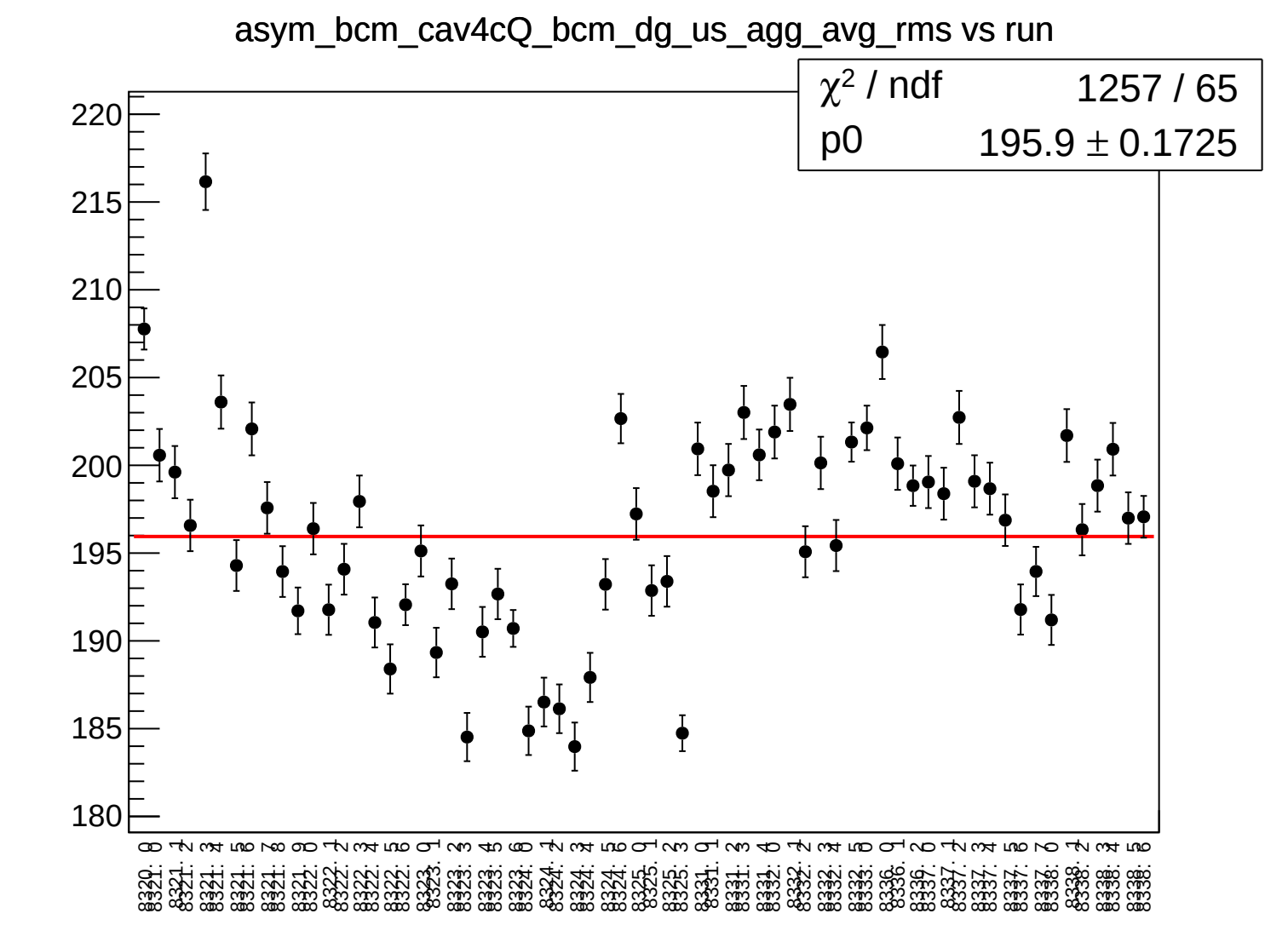

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.26 / 65
p0 207.2 ± 242.4
pull
Entries 66
Mean −5.6
Std Dev 120.7
pull1D
Entries 66
Mean −0.001836
Std Dev 0.526

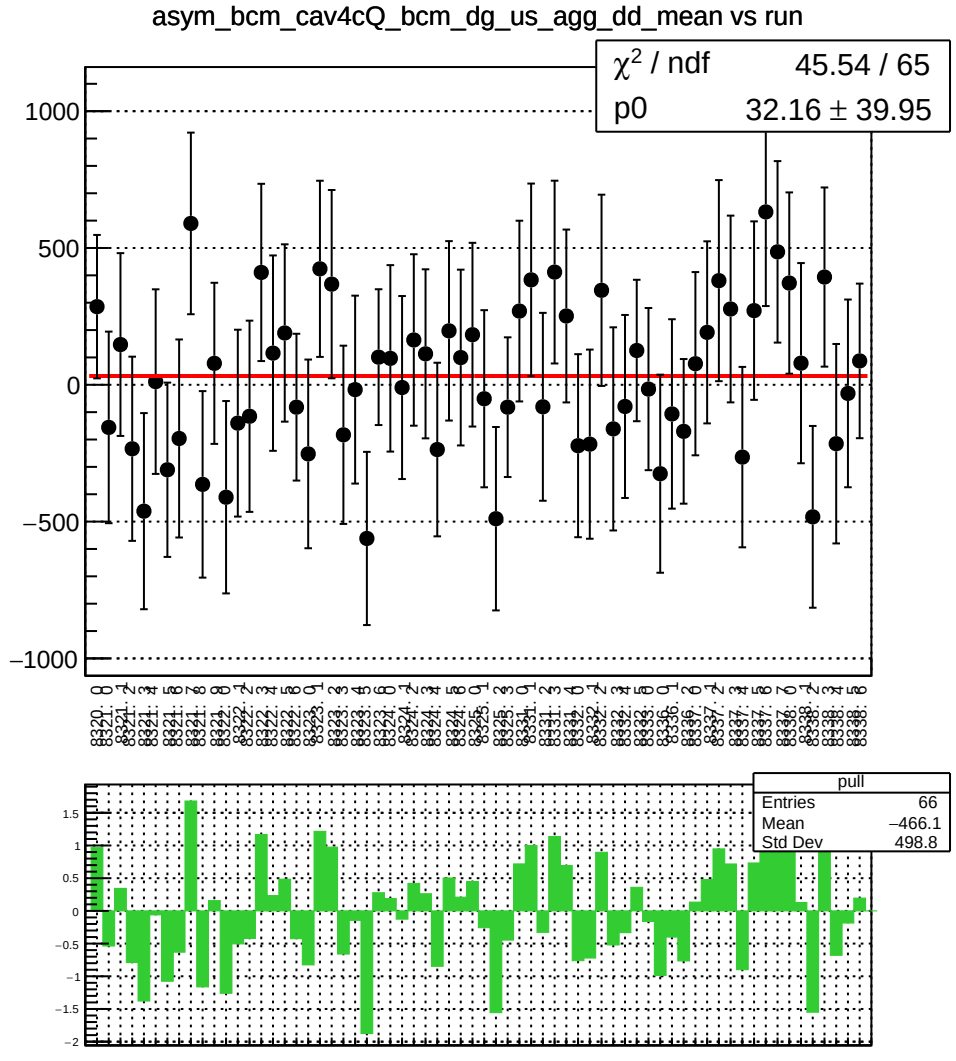

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1185 / 65
p0 194.7 ± 0.1714
215
210
205
200
195
190
185
180

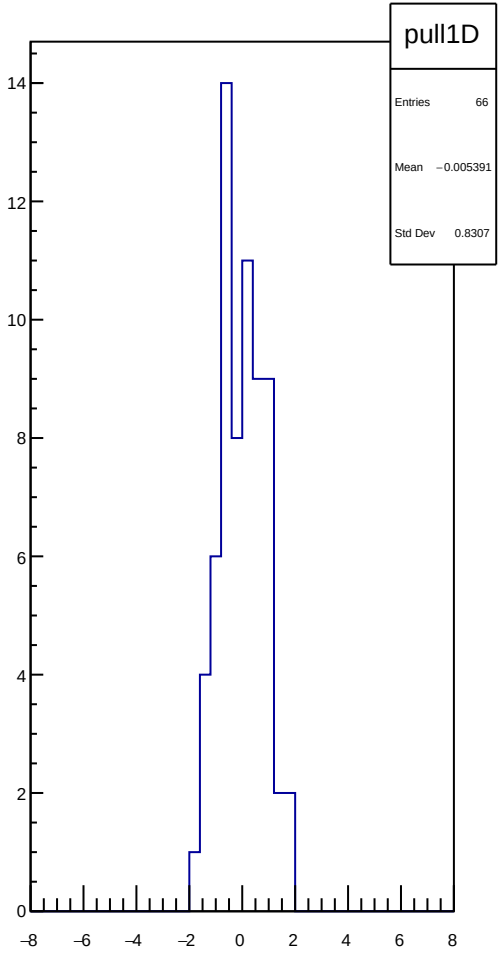

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 43.86 / 65
p0 34.4 ± 32.85
pull
Entries 66
Mean −399.9
Std Dev 432.5
pull1D
Entries 66
Mean −0.002594
Std Dev 0.8152

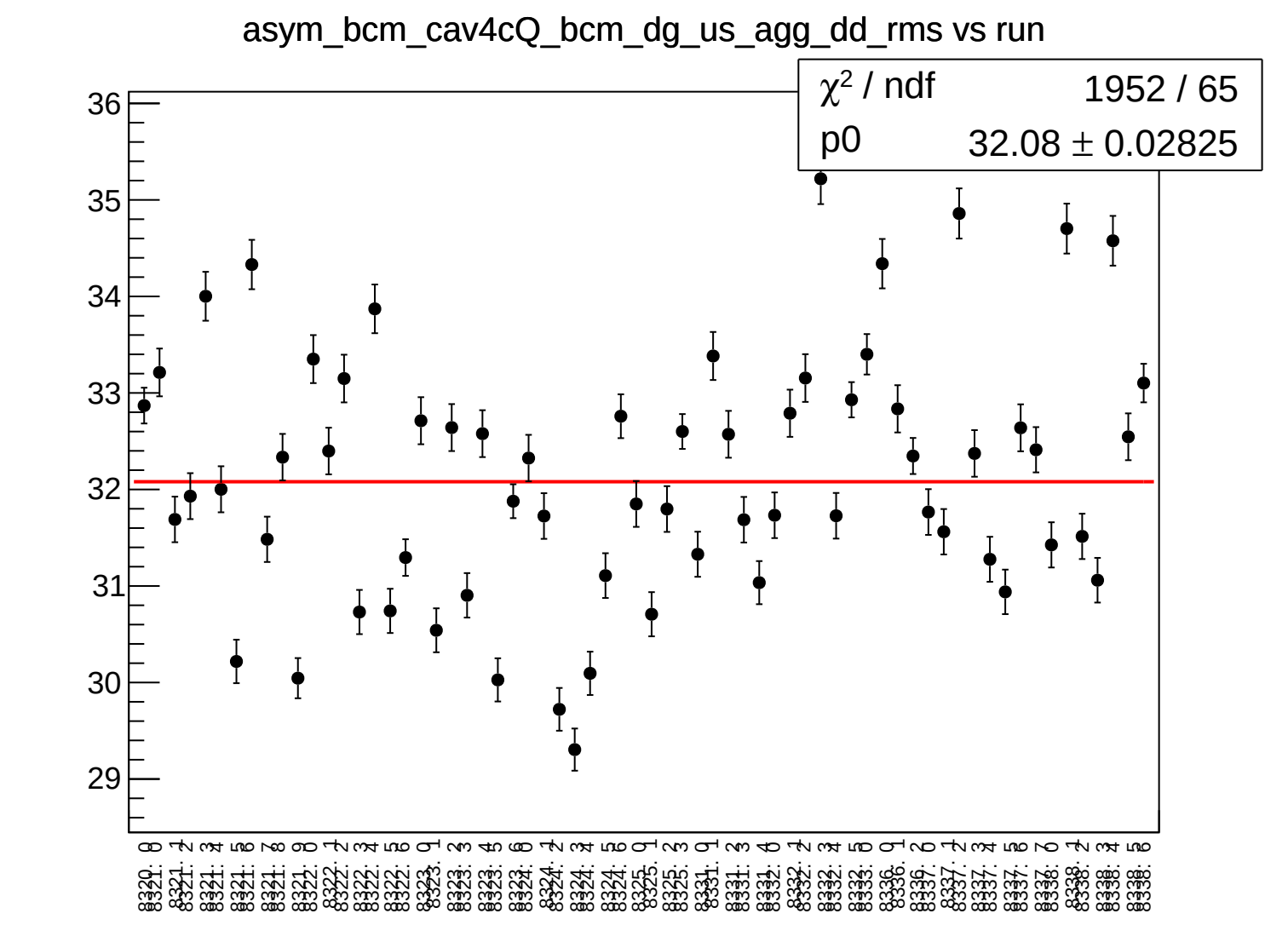

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3467 / 65
p0 26.36 ± 0.02323
30
29
28
27
26
25
24
23

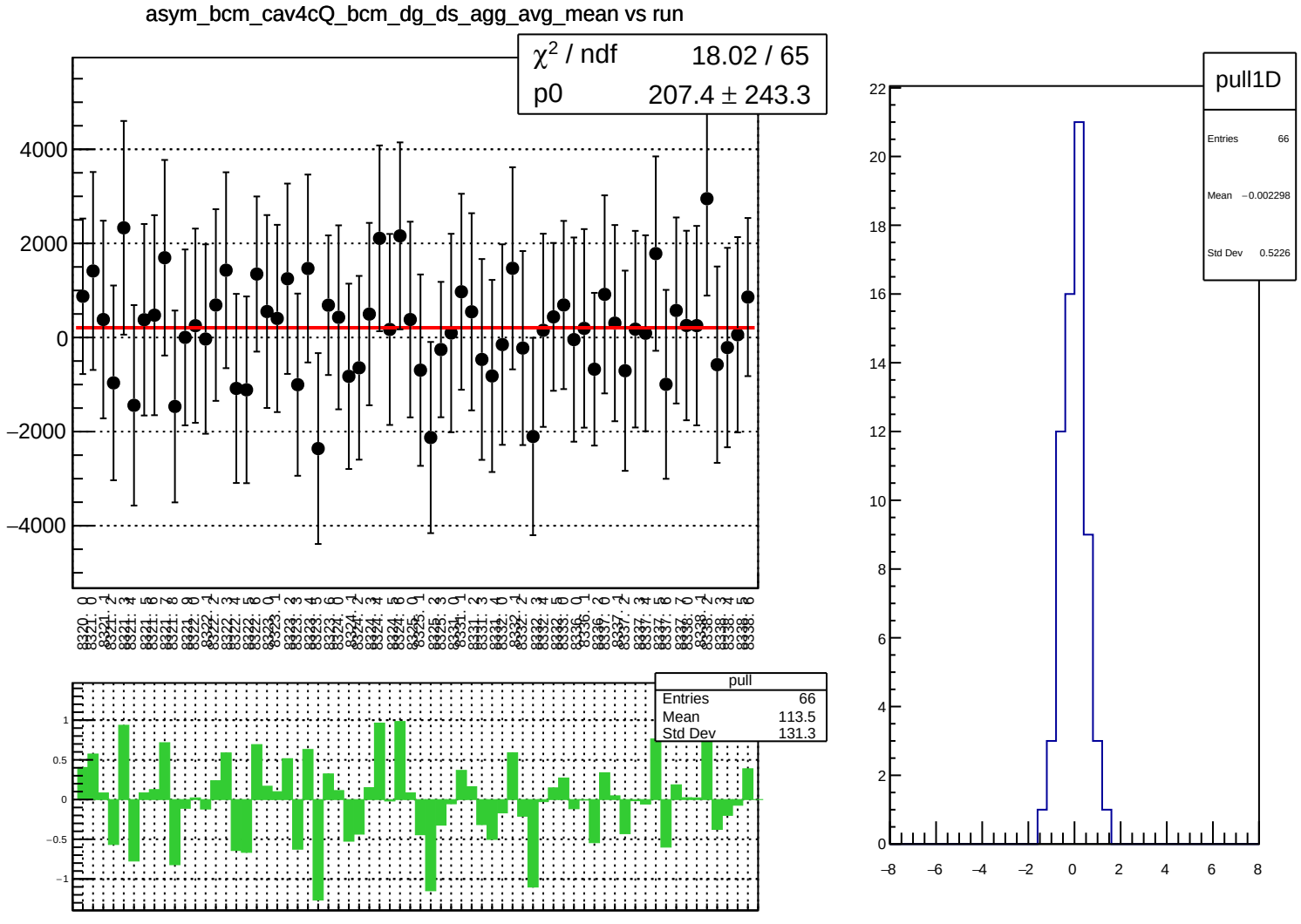

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.87 / 65
p0 211.5 ± 243.9
pull
Entries 66
Mean 147.5
Std Dev 161.2
pull1D
Entries 66
Mean −0.001834
Std Dev 0.5347

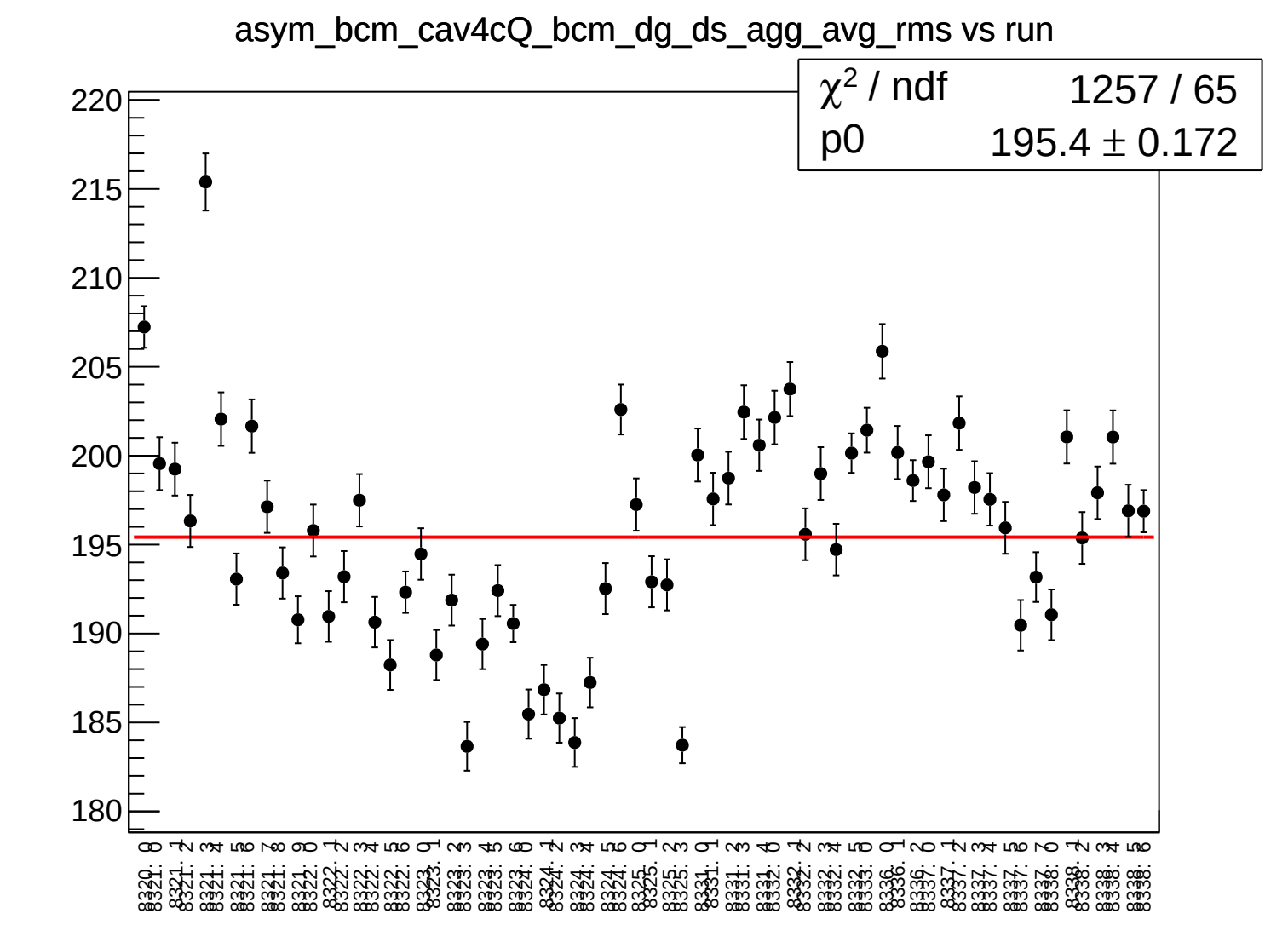

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1257 / 65
p0 195.9 ± 0.1725
220
215
210
205
200
195
190
185
180

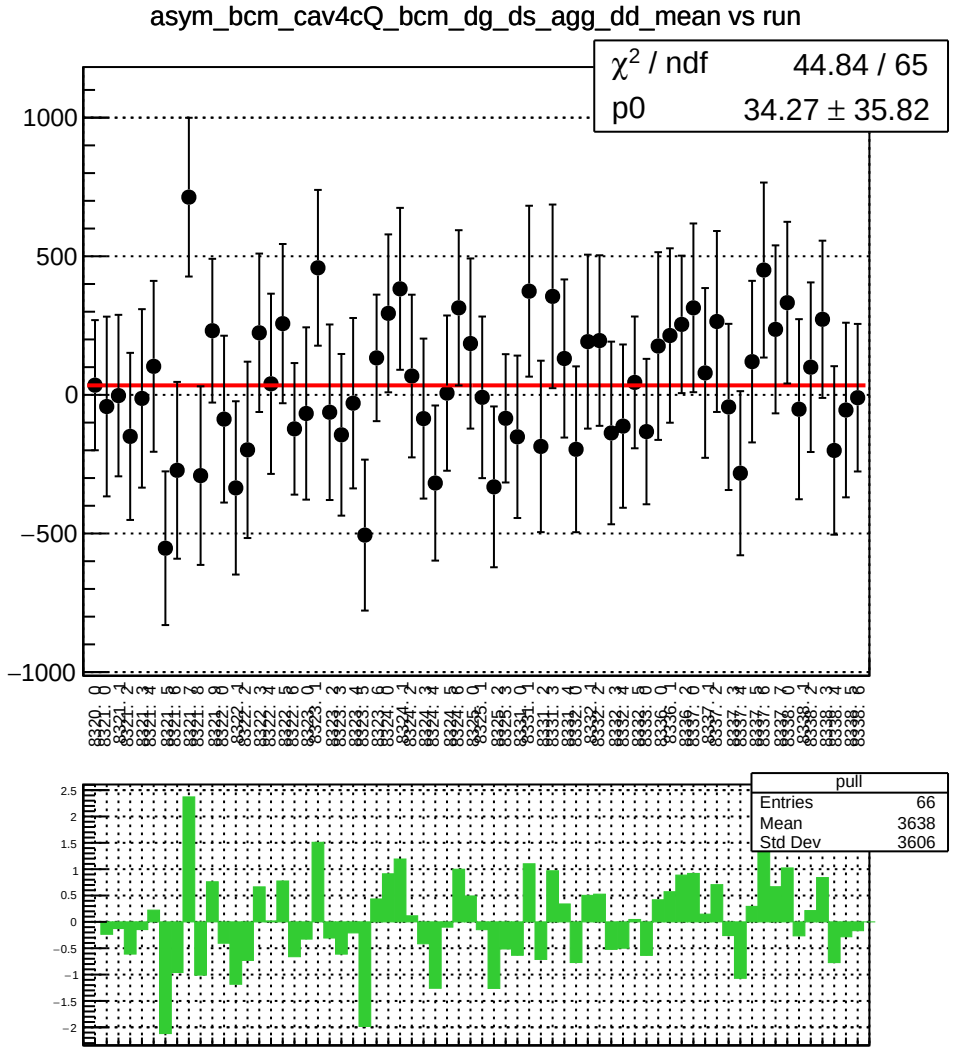

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 45.54 / 65
p0 32.16 ± 39.95
pull
Entries 66
Mean −466.1
Std Dev 498.8

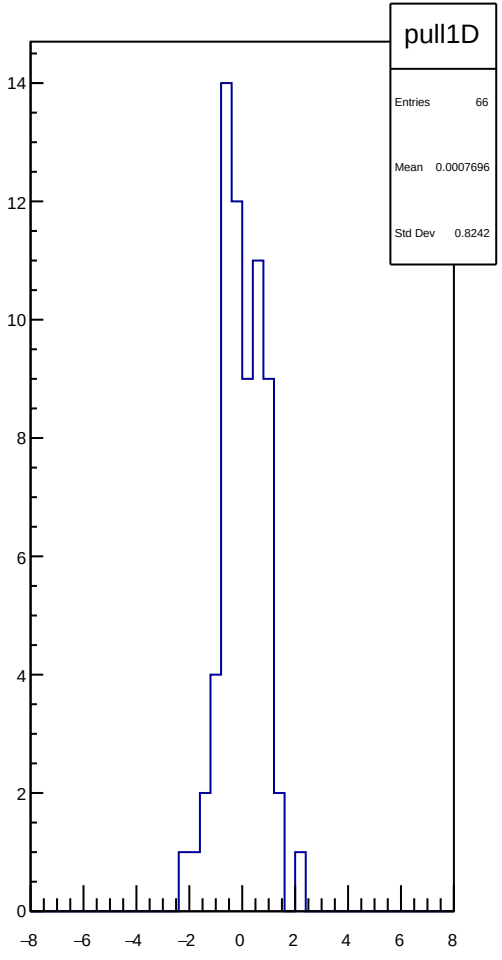

pull1D
Entries 66
Mean −0.005391
Std Dev 0.8307

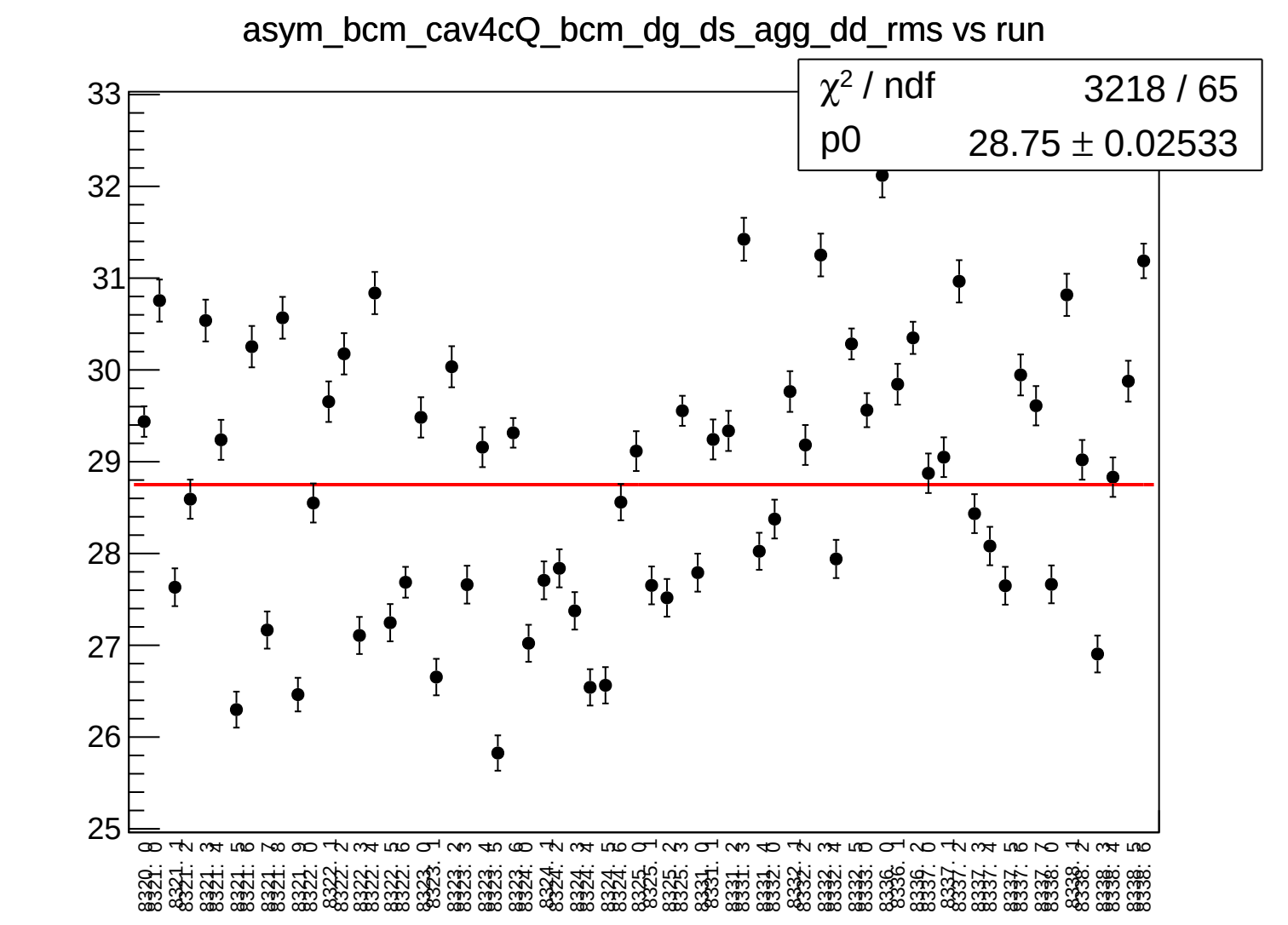

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1952 / 65
p0 32.08 ± 0.02825
36
35
34
33
32
31
30
29

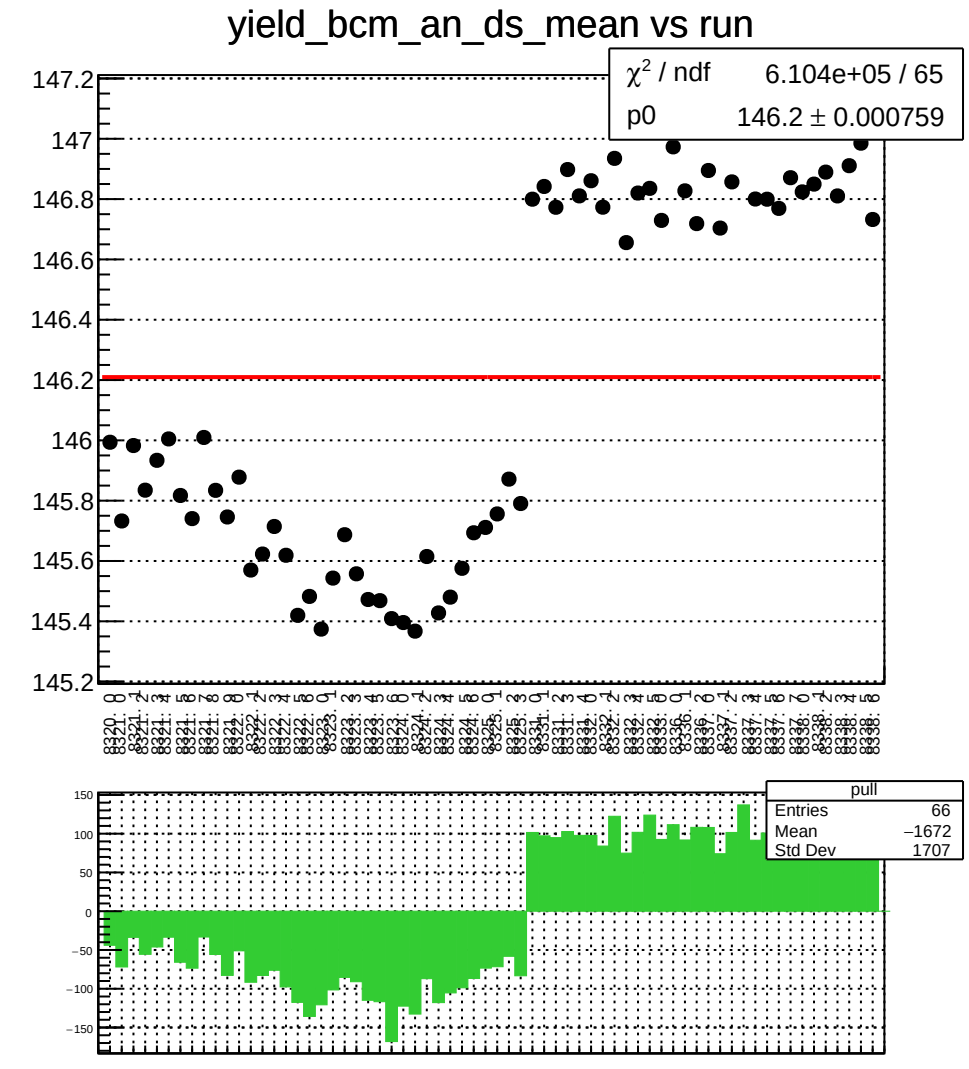

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.02 / 65
p0 207.4 ± 243.3
pull
Entries 66
Mean 113.5
Std Dev 131.3
pull1D
Entries 66
Mean −0.002298
Std Dev 0.5226

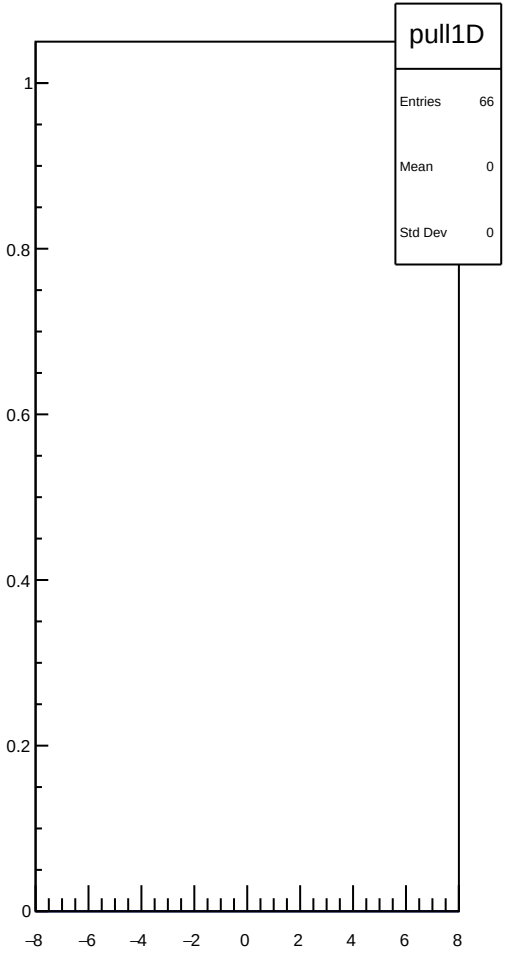

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1257 / 65
p0 195.4 ± 0.172
220
215
210
205
200
195
190
185
180

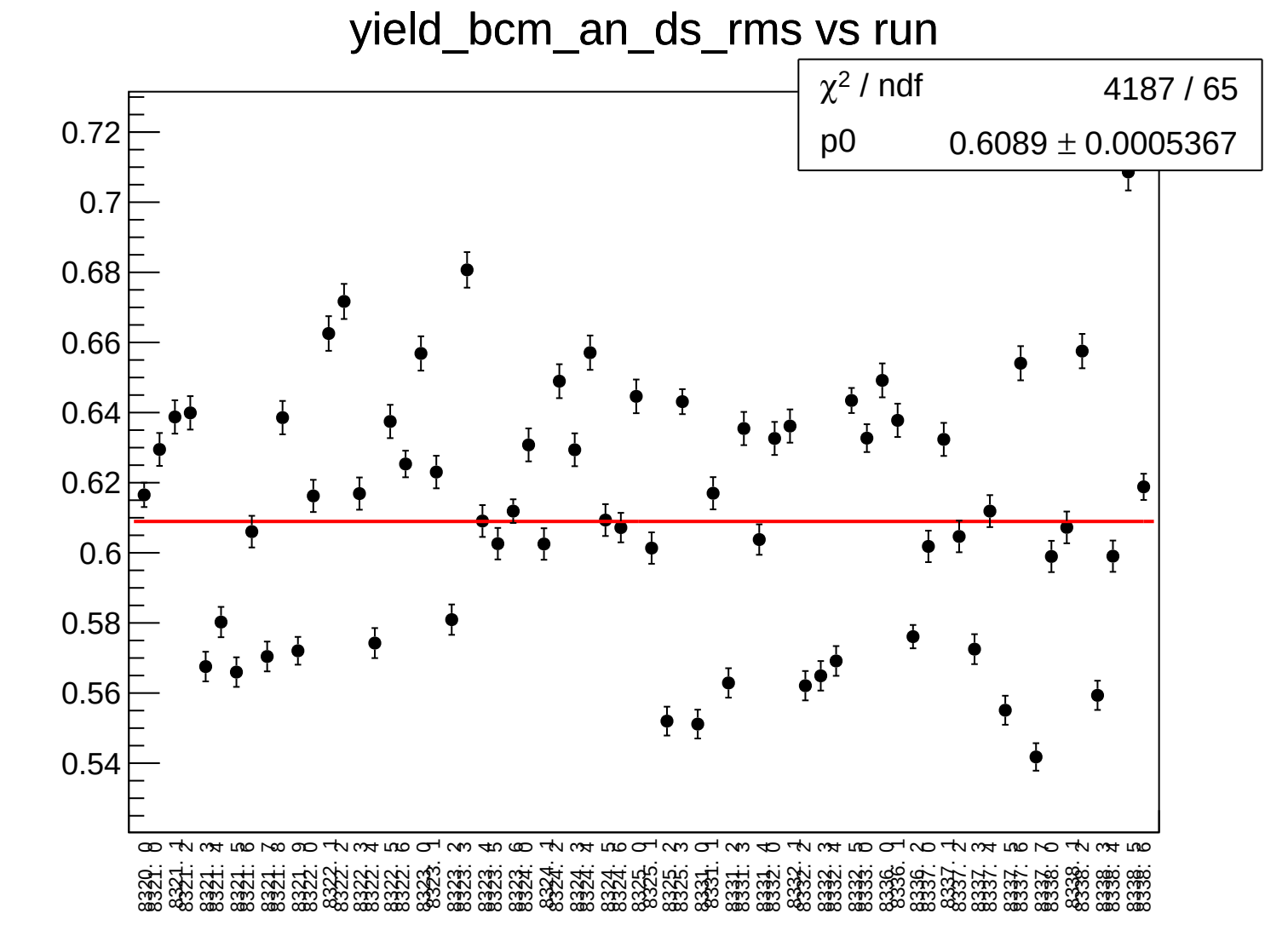

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 44.84 / 65
p0 34.27 ± 35.82
pull
Entries 66
Mean 3638
Std Dev 3606

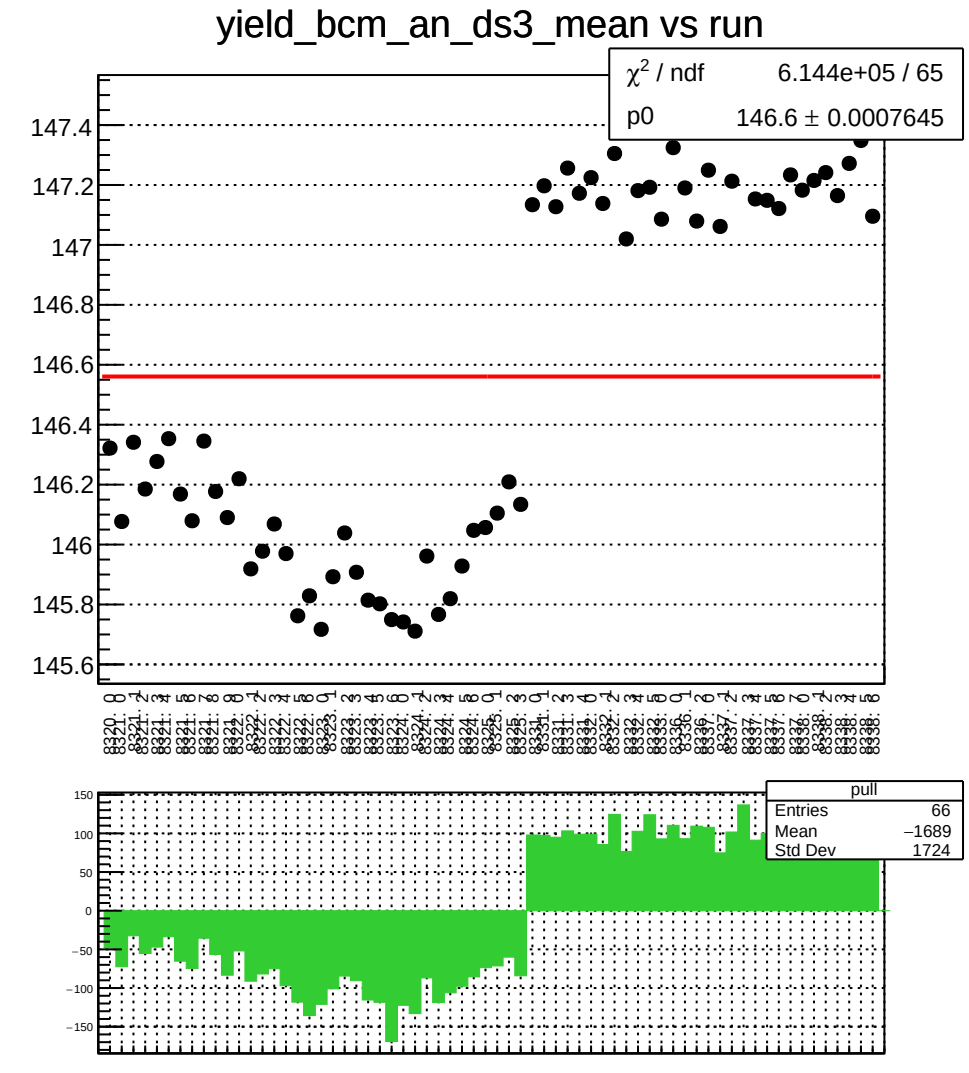

pull1D
Entries 66
Mean 0.0007696
Std Dev 0.8242

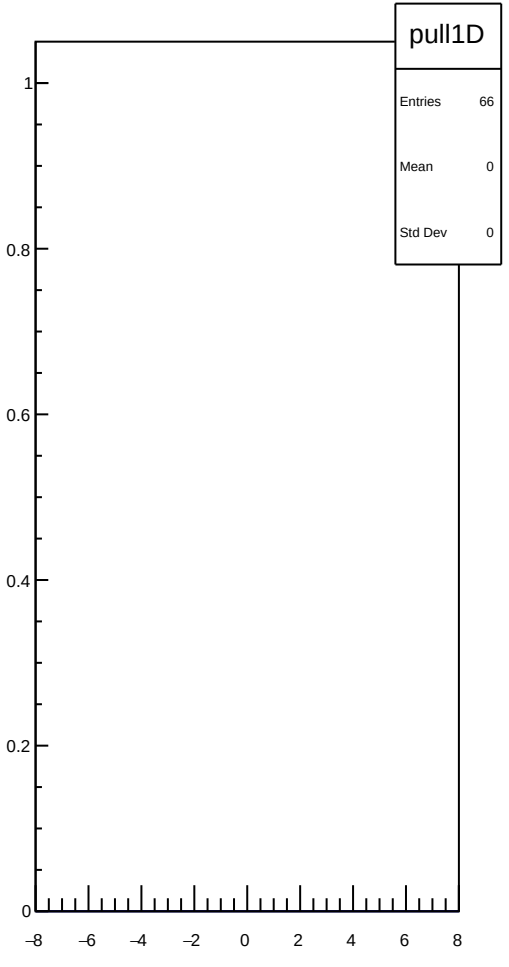

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3218 / 65
p0 28.75 ± 0.02533
33
32
31
30
29
28
27
26
25

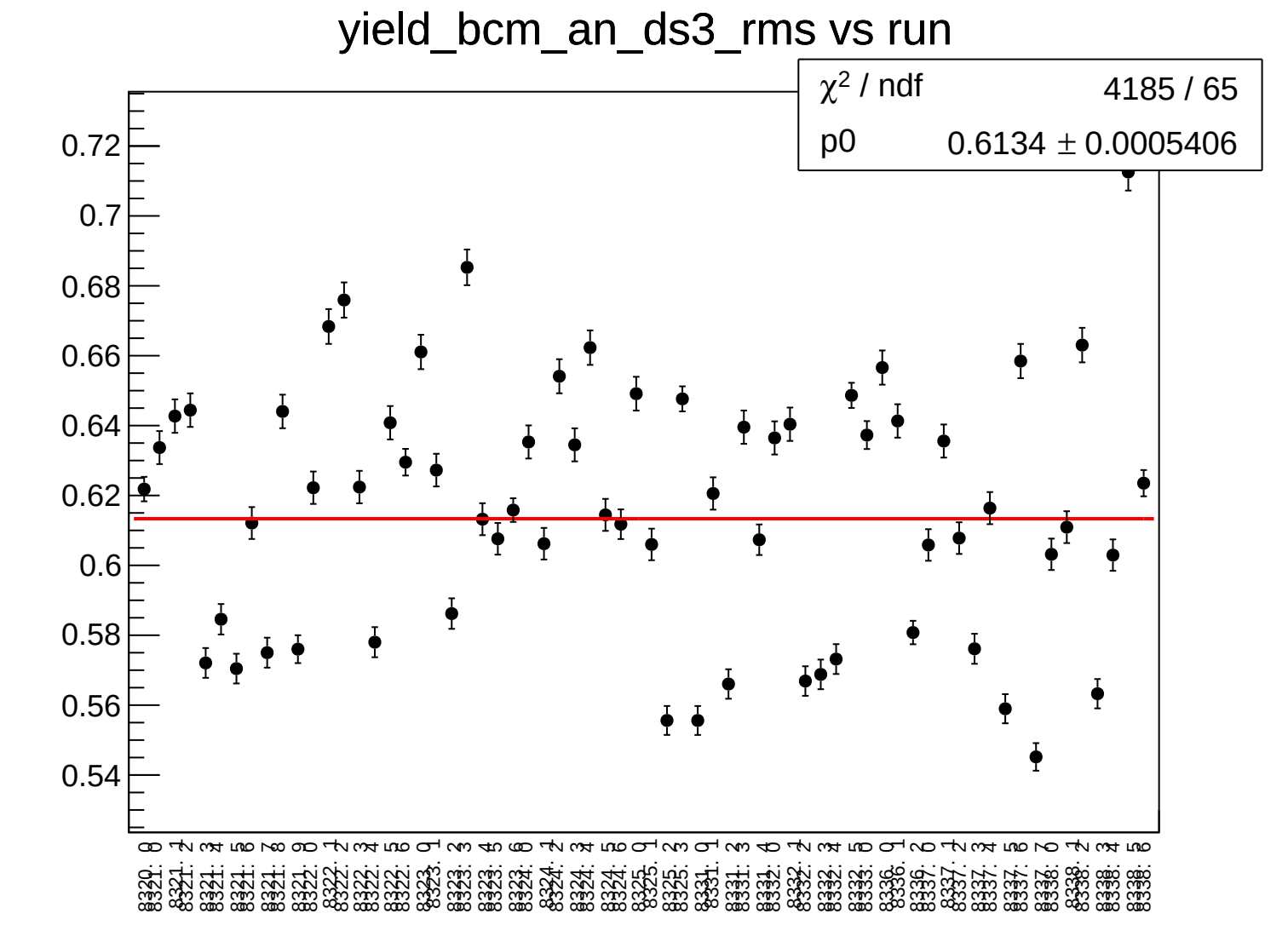

yield_bcm_an_ds_mean vs run
χ² / ndf 6.104e+05 / 65
p0 146.2 ± 0.000759
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
pull
Entries 66
Mean −1672
Std Dev 1707
150
100
50
0
−50
−100
−150

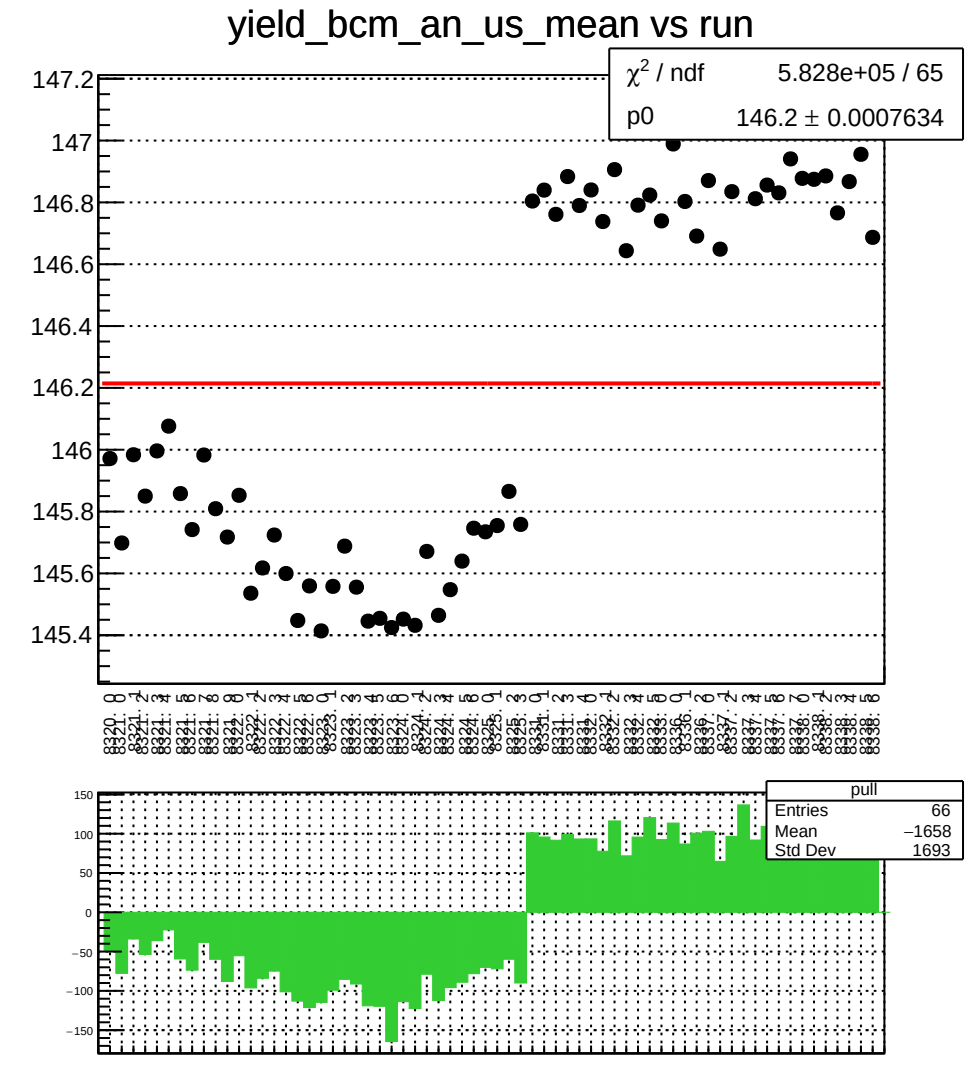

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

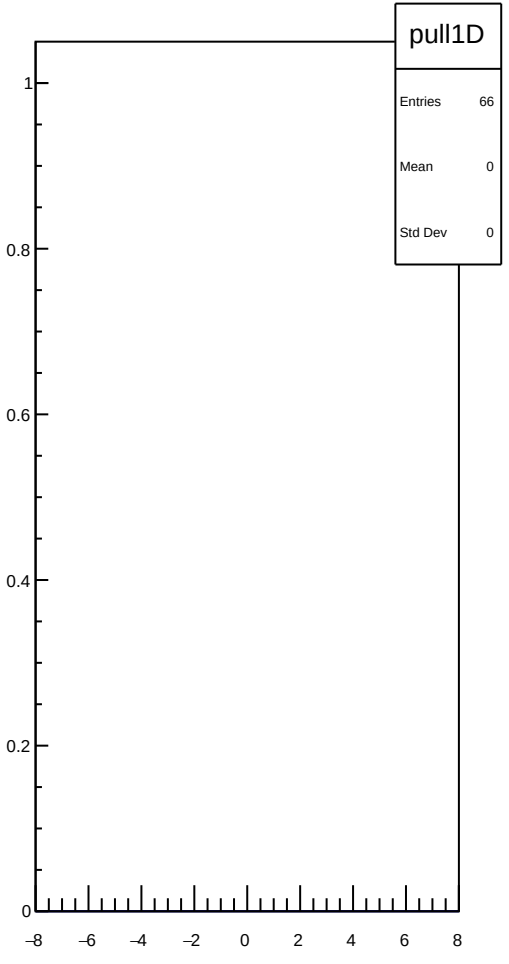

yield_bcm_an_ds_rms vs run
χ² / ndf 4187 / 65
p0 0.6089 ± 0.0005367
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54

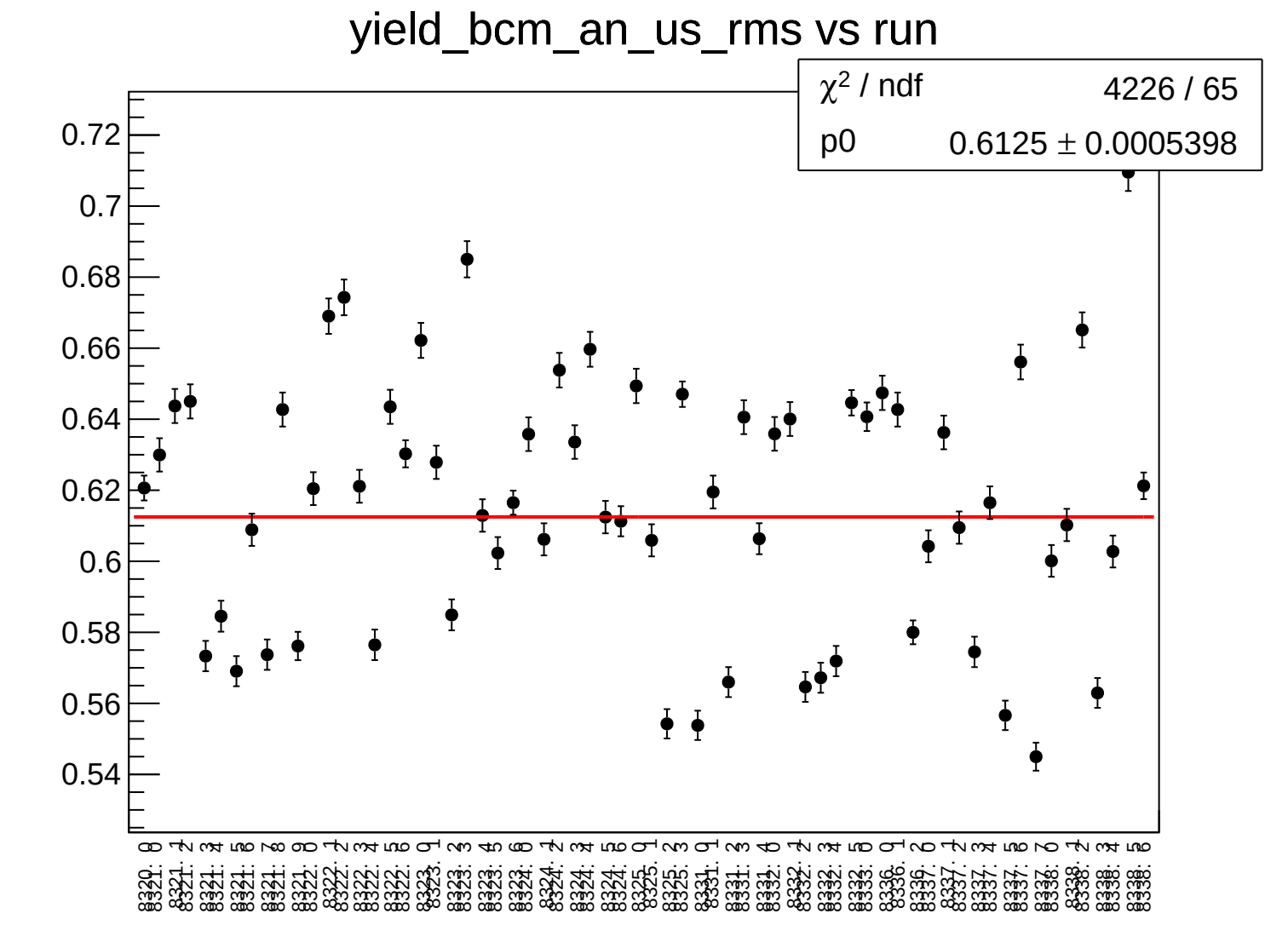

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.144e+05 / 65
p0 146.6 ± 0.0007645
147.4
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
pull
Entries 66
Mean −1689
Std Dev 1724
150
100
50
0
−50
−100
−150

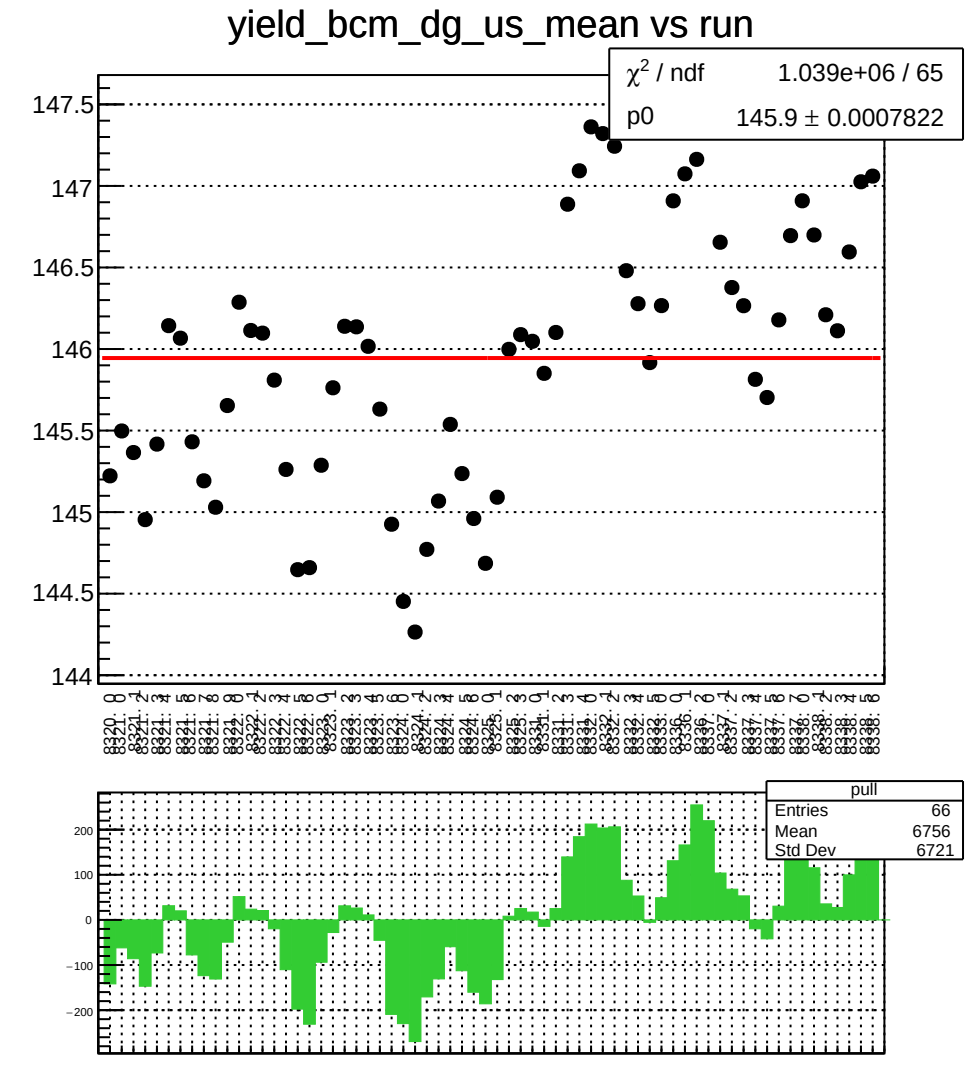

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

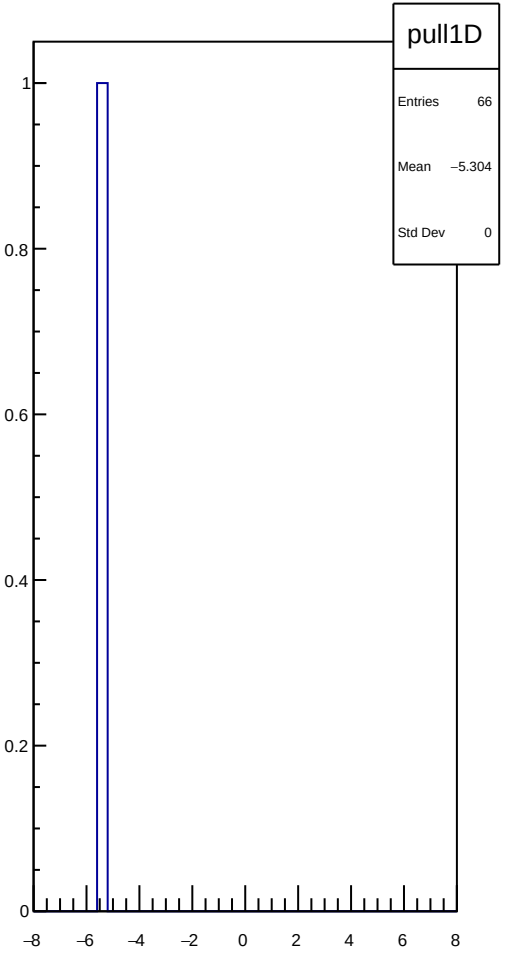

yield_bcm_an_ds3_rms vs run
χ² / ndf 4185 / 65
p0 0.6134 ± 0.0005406
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54

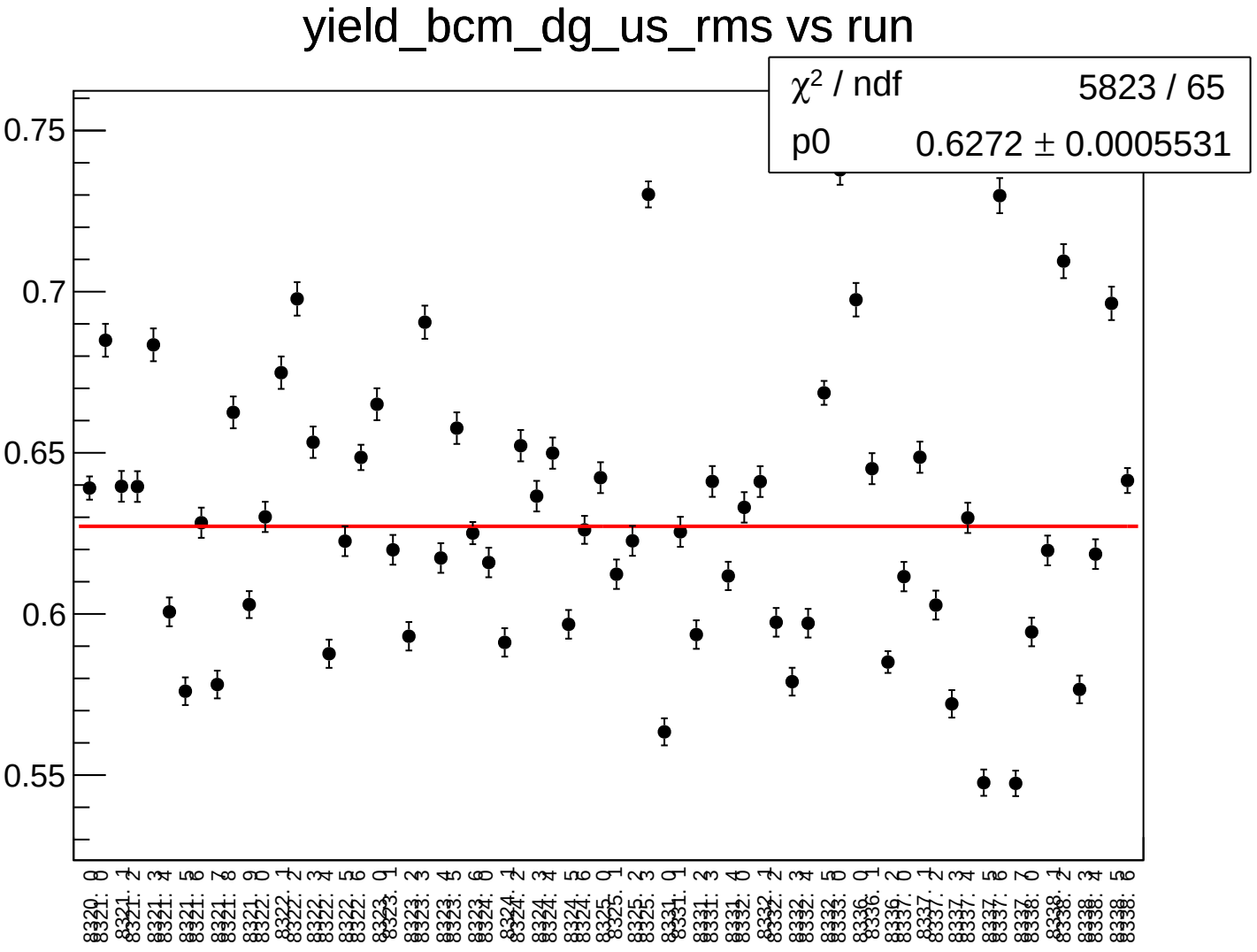

yield_bcm_an_us_mean vs run
χ² / ndf 5.828e+05 / 65
p0 146.2 ± 0.0007634
147.2
147
146.8
146.6
146.4
146.2
146
145.8
145.6
145.4
pull
Entries 66
Mean −1658
Std Dev 1693
150
100
50
0
−50
−100
−150

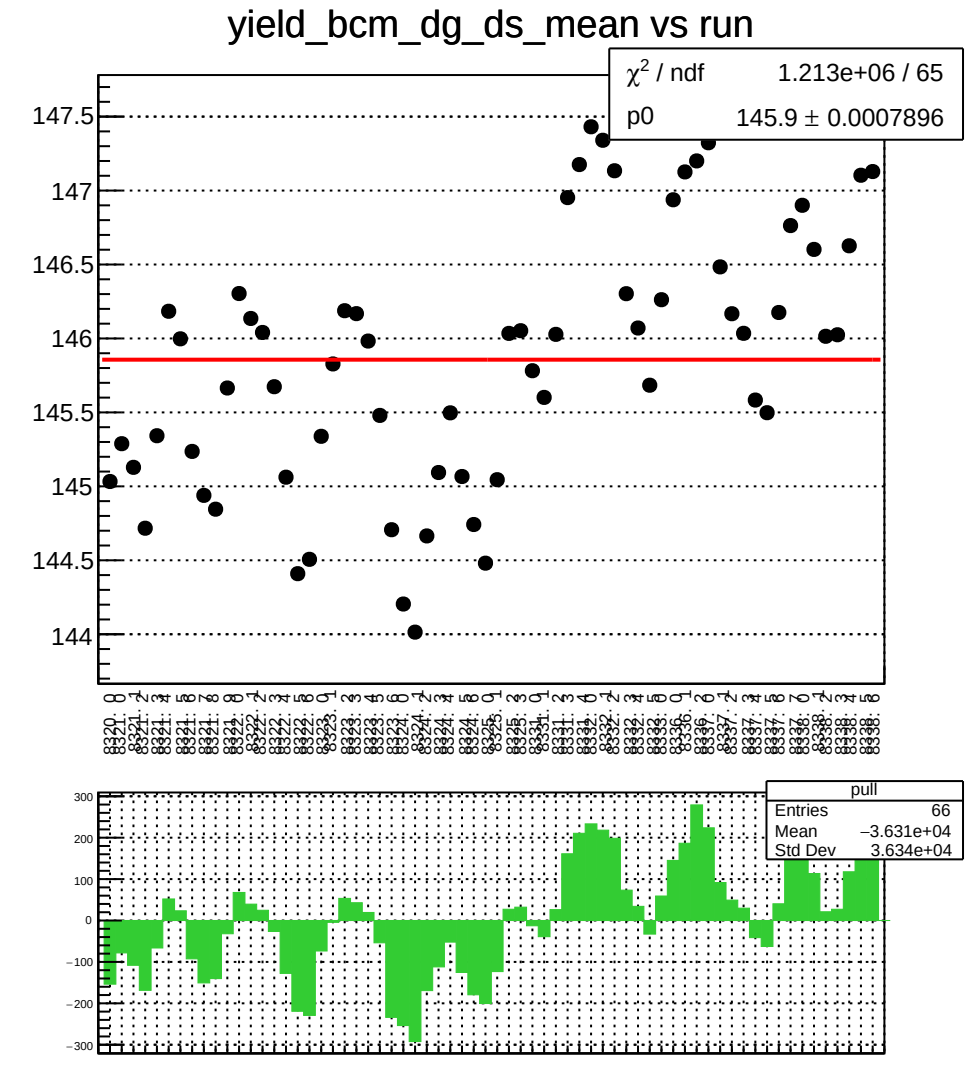

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

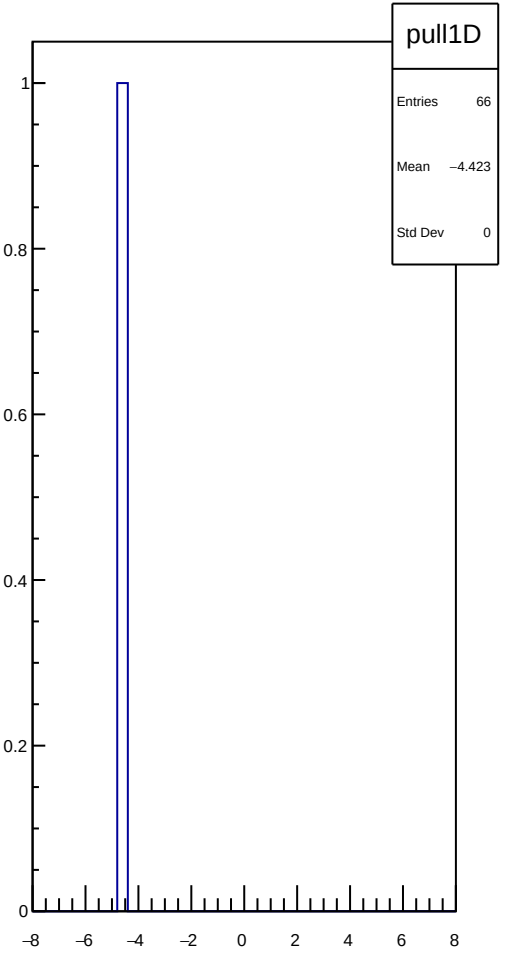

yield_bcm_an_us_rms vs run
χ² / ndf 4226 / 65
p0 0.6125 ± 0.0005398
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54

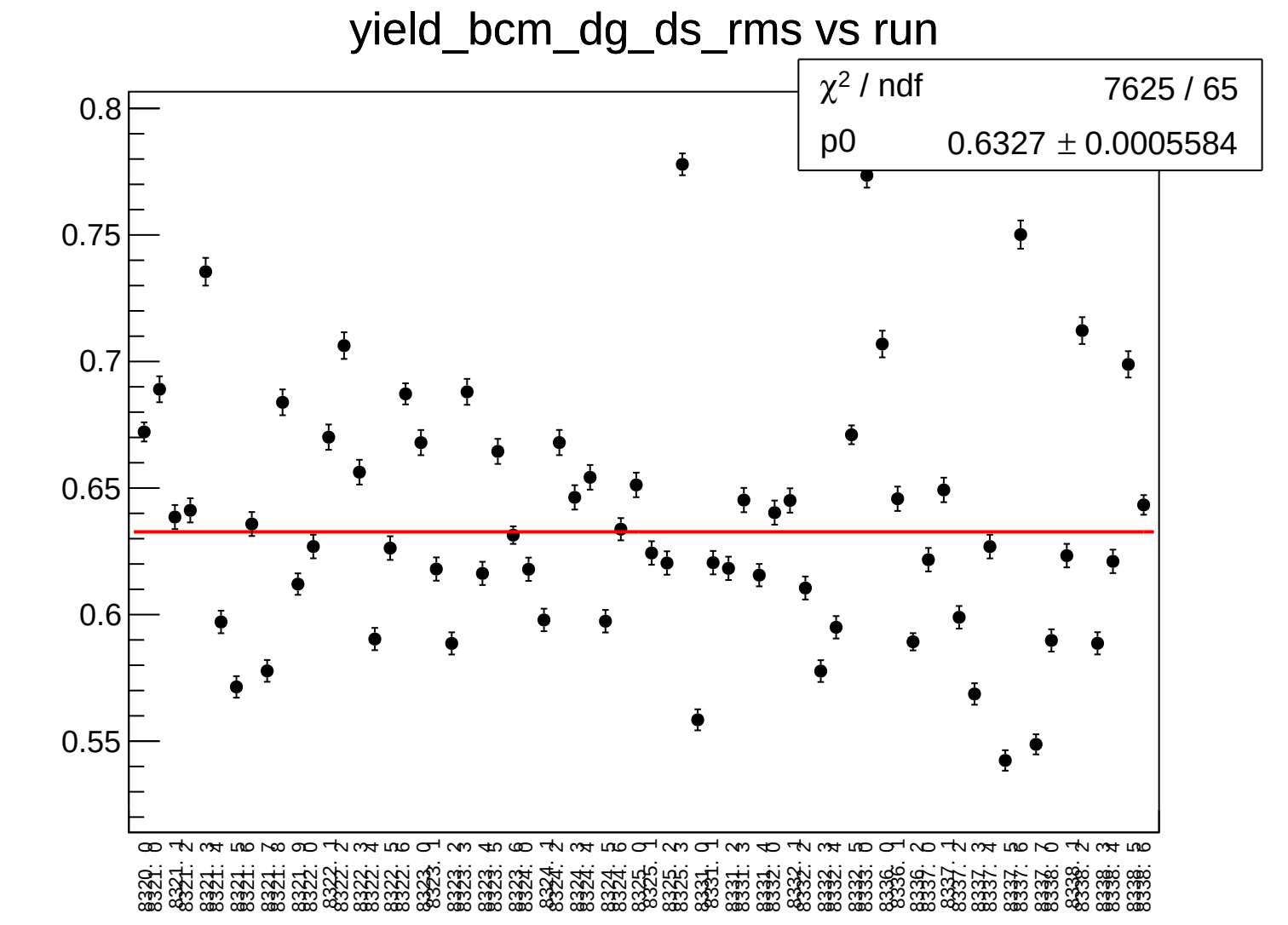

yield_bcm_dg_us_mean vs run
χ² / ndf 1.039e+06 / 65
p0 145.9 ± 0.0007822
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 66
Mean 6756
Std Dev 6721
200
100
0
−100
−200

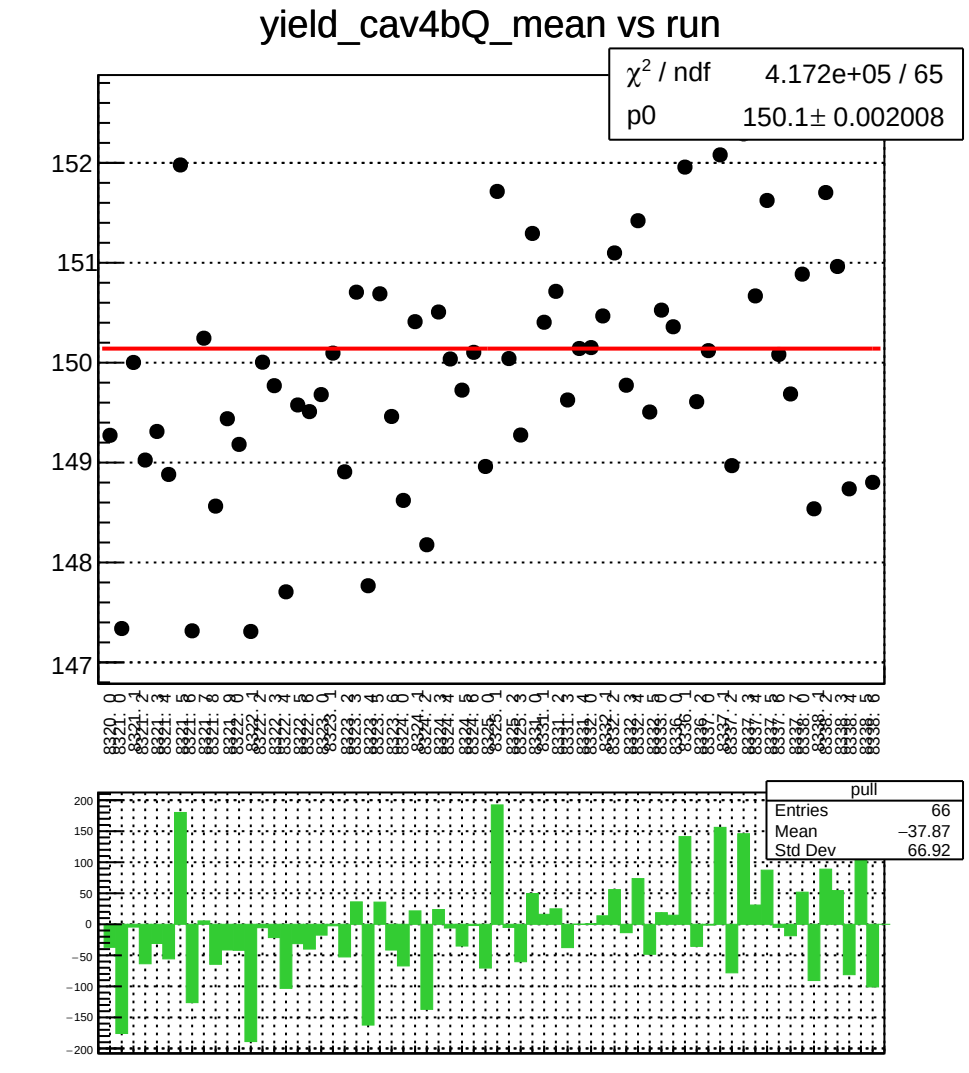

pull1D
Entries 66
Mean −5.304
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

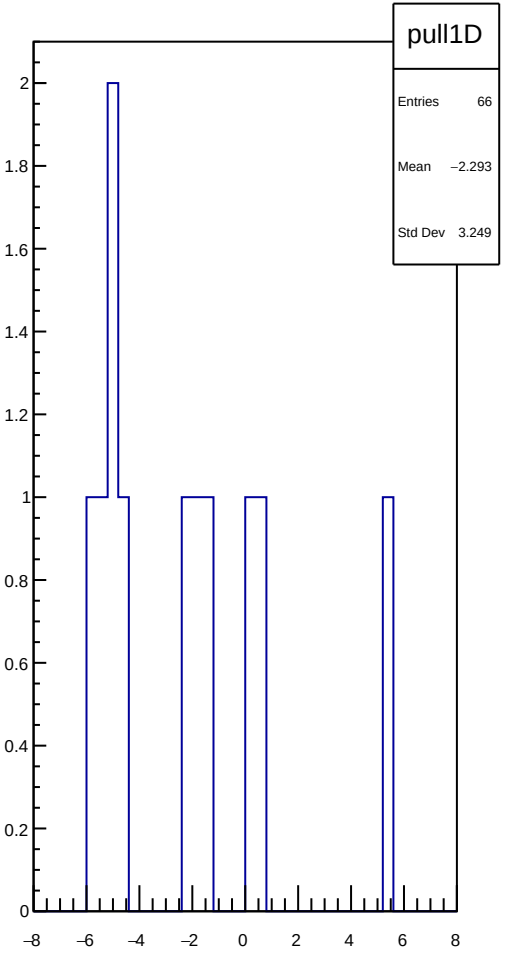

yield_bcm_dg_us_rms vs run
χ² / ndf 5823 / 65
p0 0.6272 ± 0.0005531
0.75
0.7
0.65
0.6
0.55

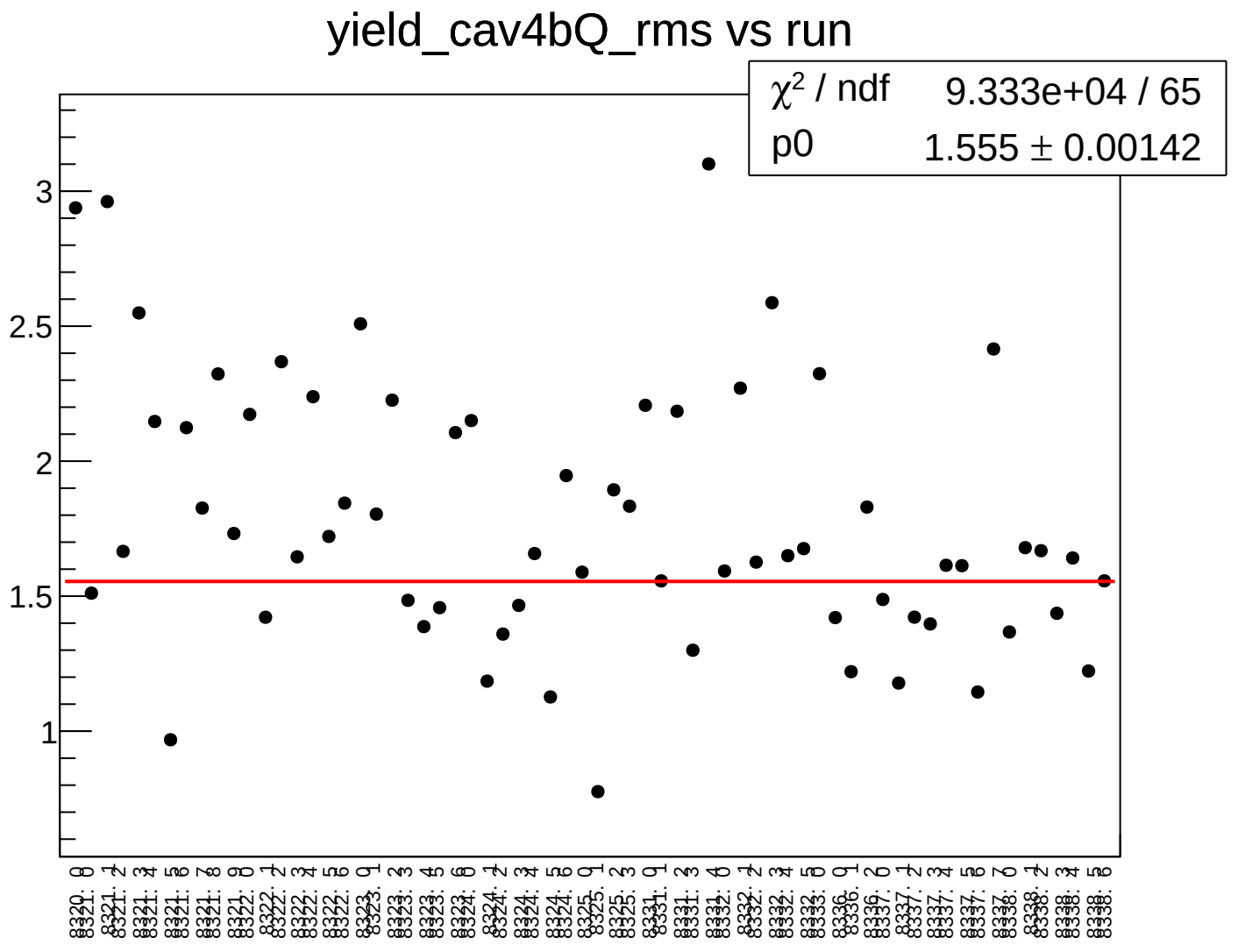

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.213e+06 / 65
p0 145.9 ± 0.0007896
147.5
147
146.5
146
145.5
145
144.5
144
pull
Entries 66
Mean −3.631e+04
Std Dev 3.634e+04
300
200
100
0
−100
−200
−300

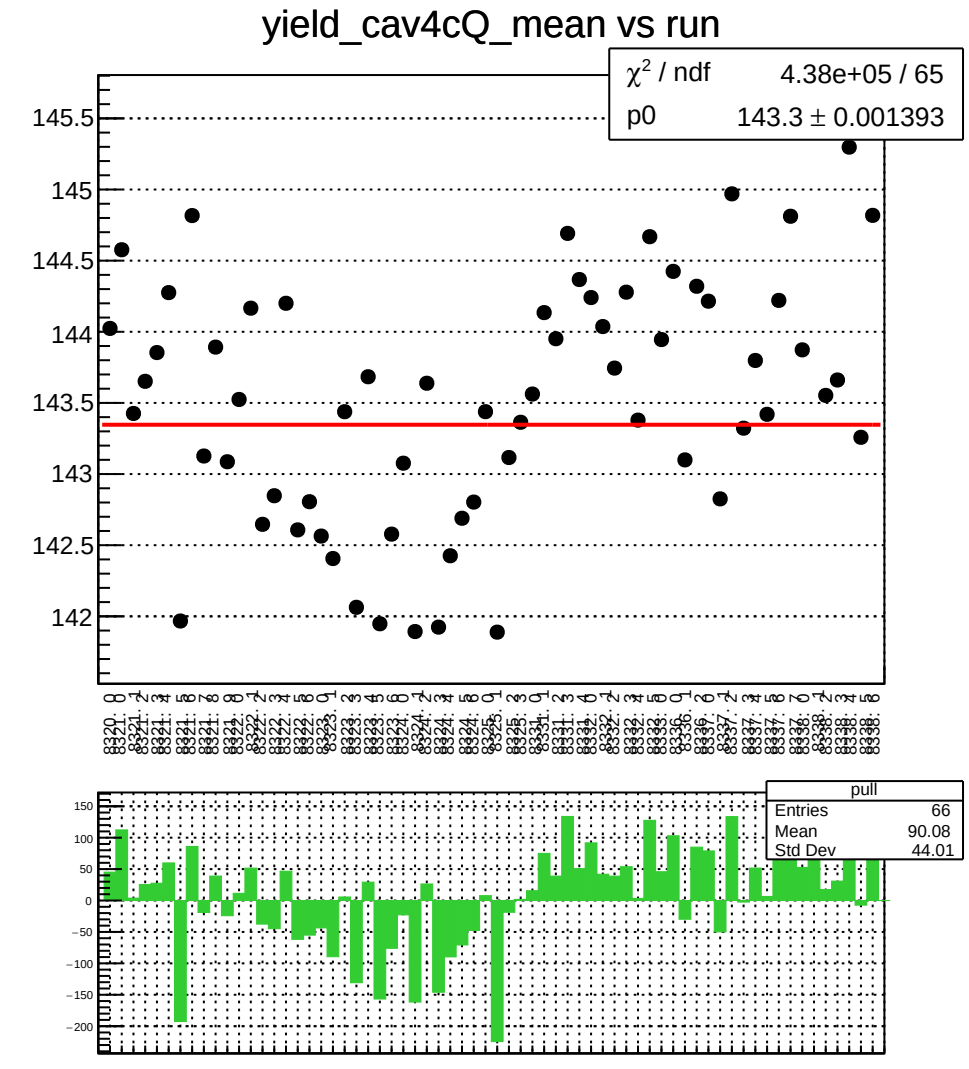

pull1D
Entries 66
Mean −4.423
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

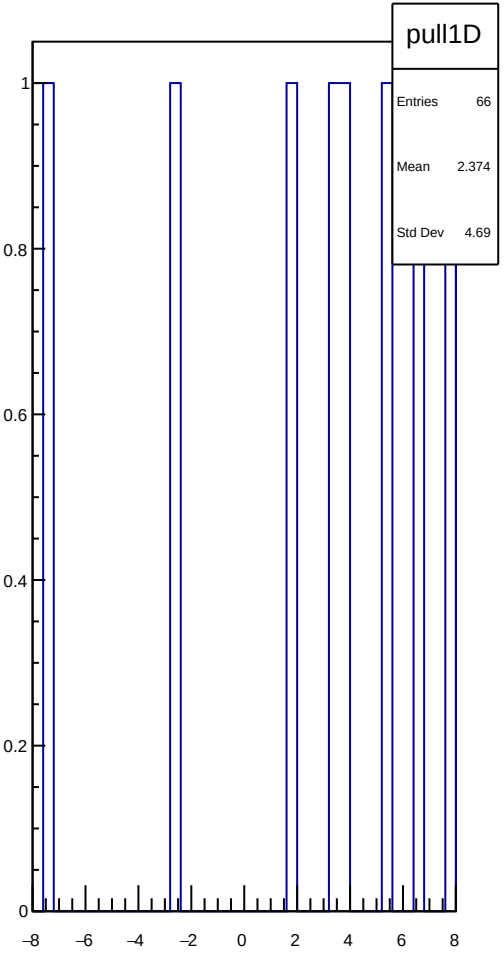

yield_bcm_dg_ds_rms vs run
χ² / ndf 7625 / 65
p0 0.6327 ± 0.0005584
0.8
0.75
0.7
0.65
0.6
0.55

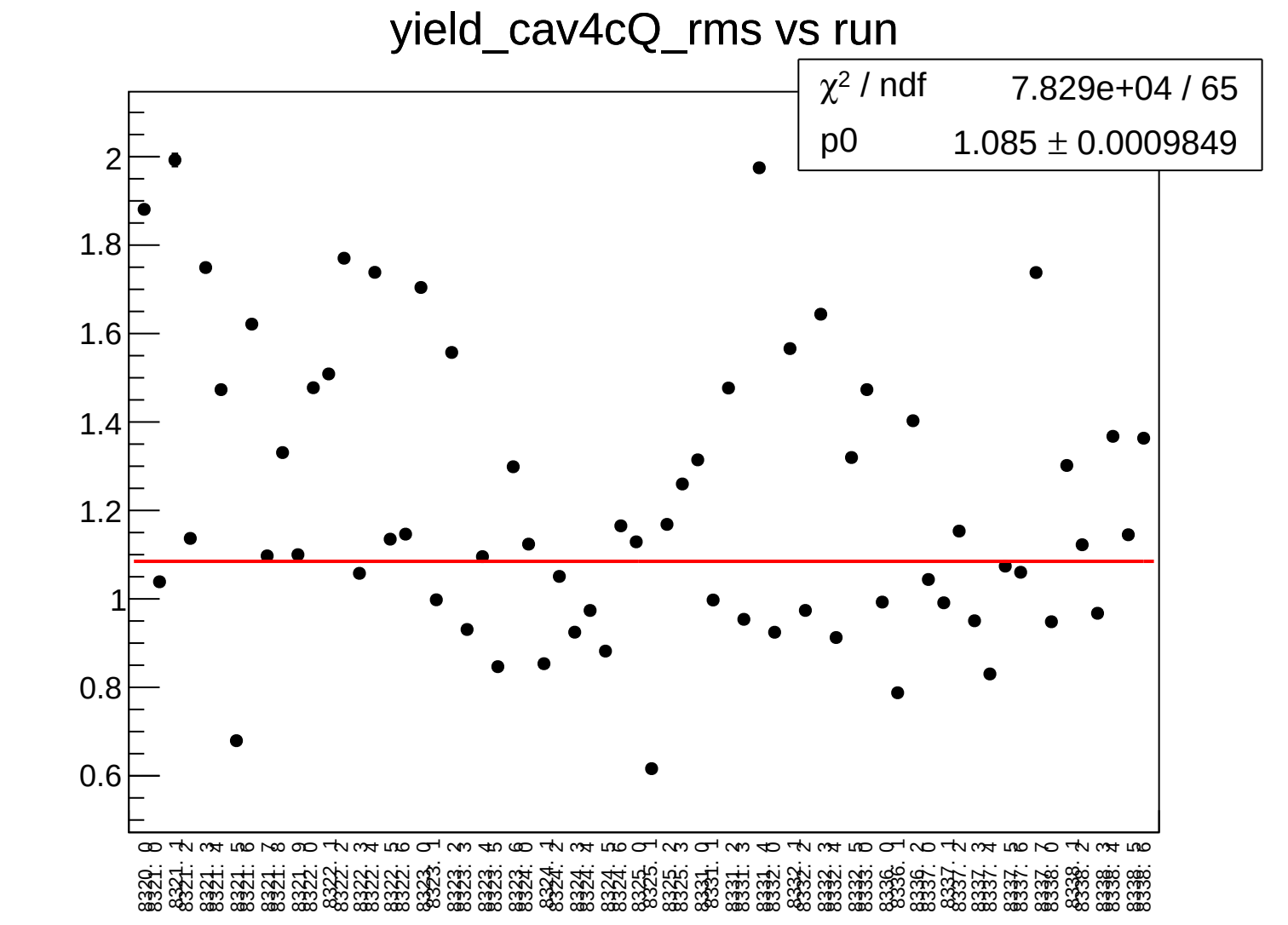

yield_cav4bQ_mean vs run
χ² / ndf 4.172e+05 / 65
p0 150.1± 0.002008
152
151
150
149
148
147
pull
Entries 66
Mean −37.87
Std Dev 66.92
200
150
100
50
0
−50
−100
−150
−200

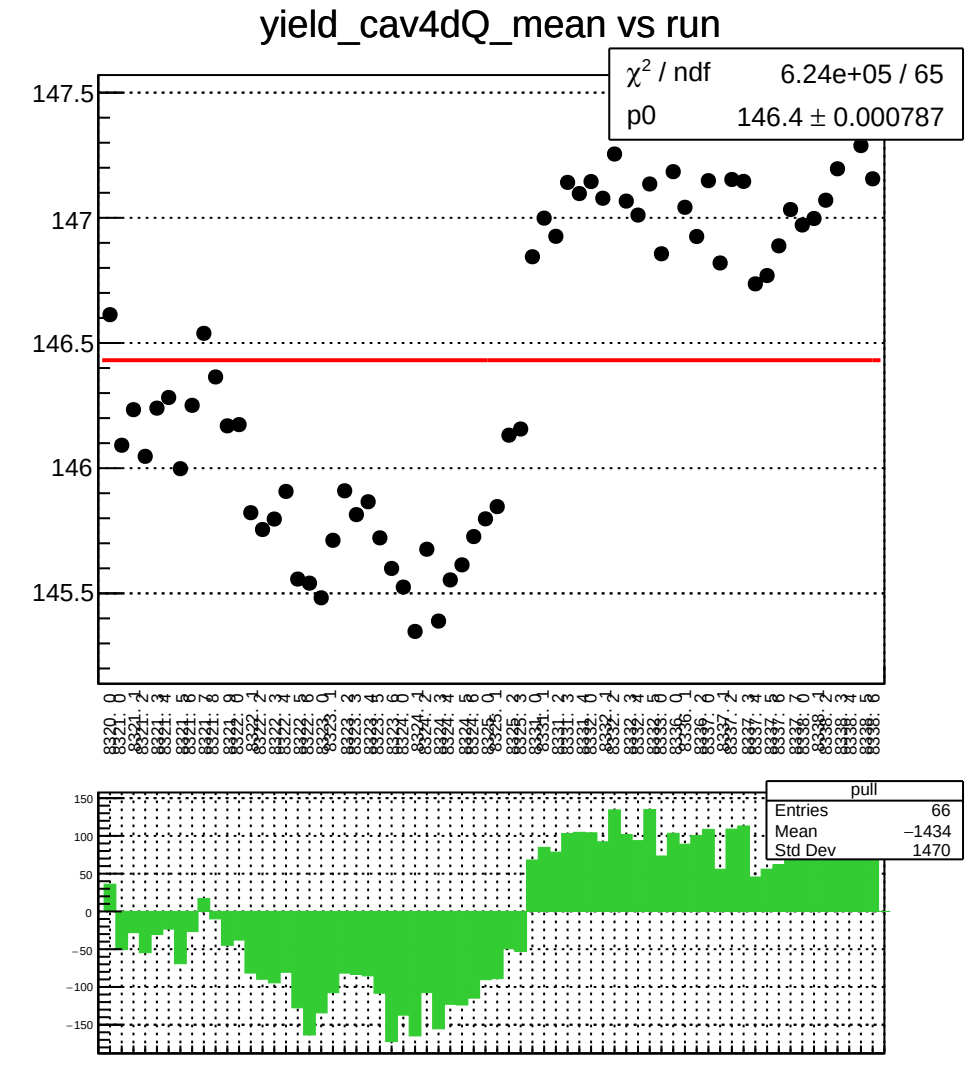

pull1D
Entries 66
Mean −2.293
Std Dev 3.249
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

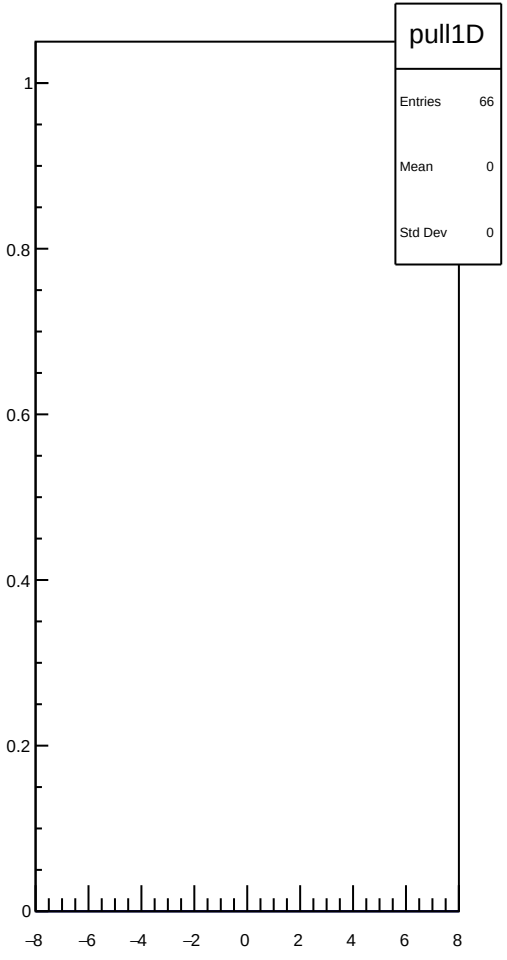

yield_cav4bQ_rms vs run
χ^2 / ndf 9.333e+04 / 65
p0 1.555 ± 0.00142
3
2.5
2
1.5
1

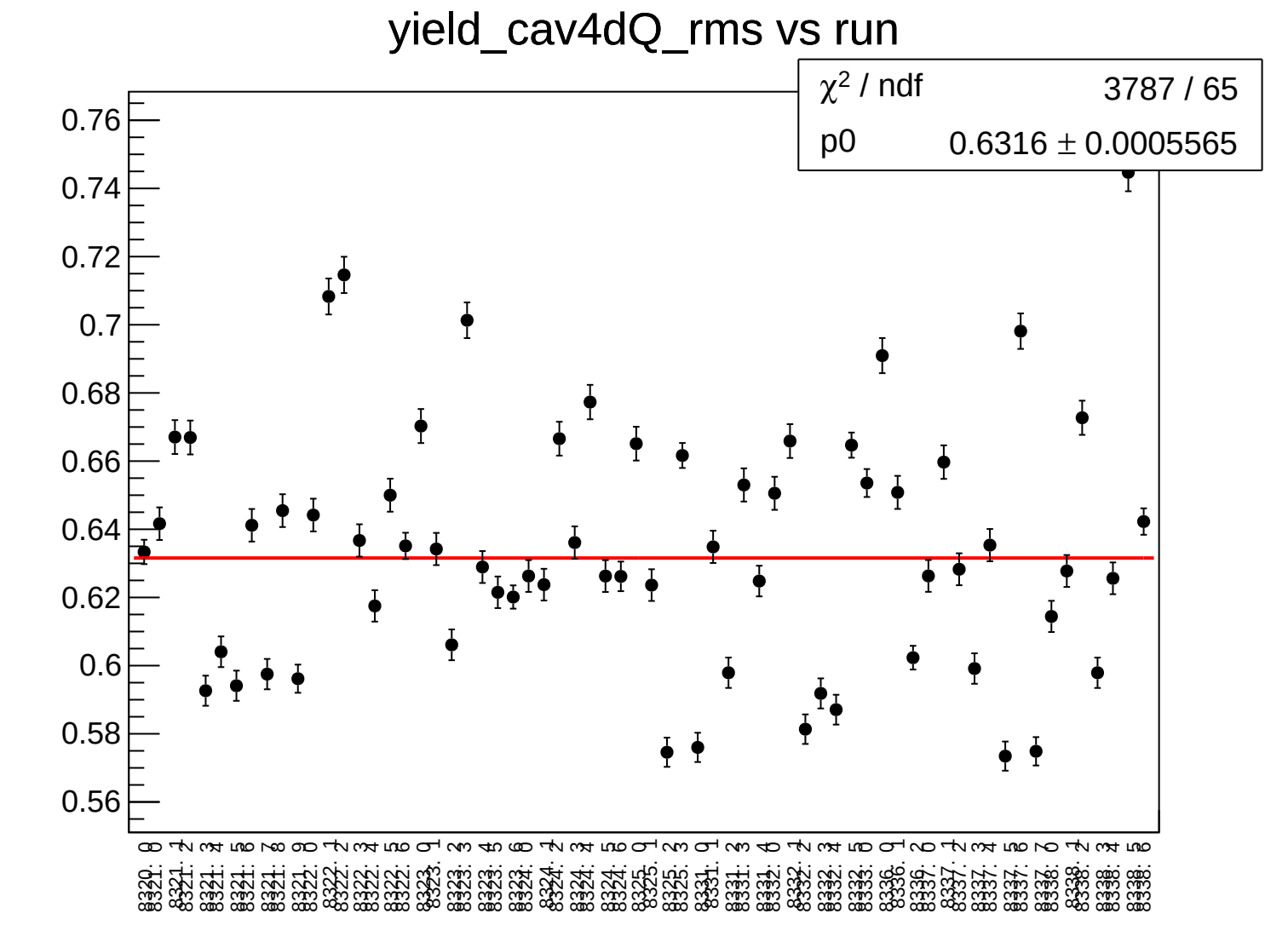

yield_cav4cQ_mean vs run
χ² / ndf 4.38e+05 / 65
p0 143.3 ± 0.001393
145.5
145
144.5
144
143.5
143
142.5
142
pull
Entries 66
Mean 90.08
Std Dev 44.01
150
100
50
0
−50
−100
−150
−200

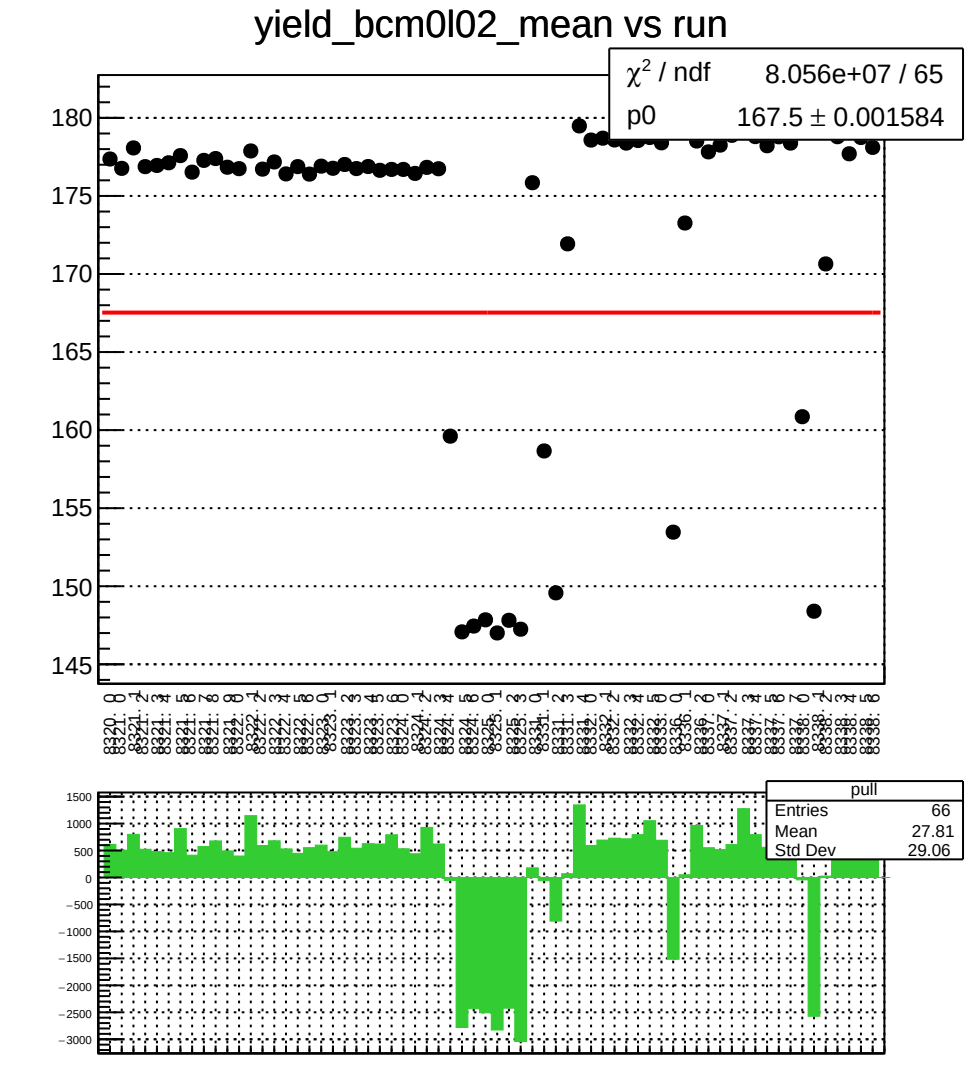

pull1D
Entries 66
Mean 2.374
Std Dev 4.69
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

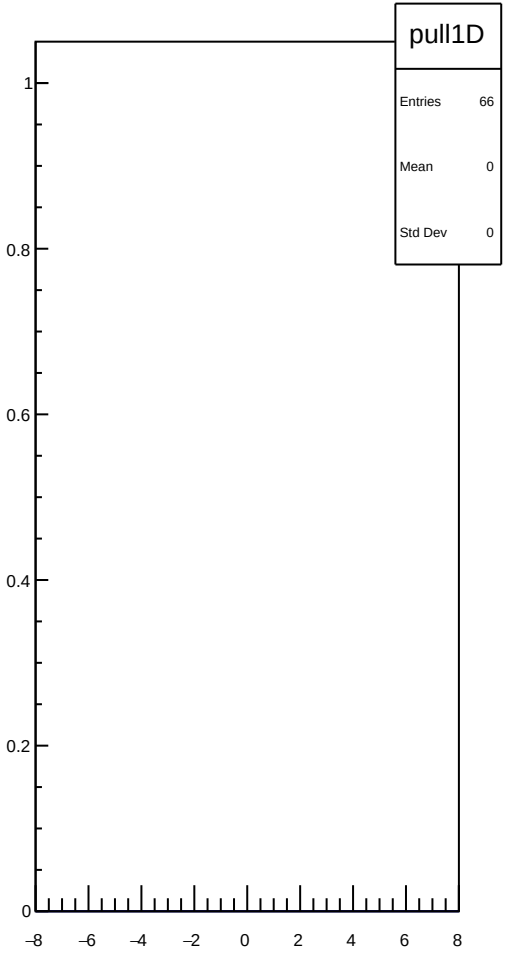

yield_cav4cQ_rms vs run
χ² / ndf 7.829e+04 / 65
p0 1.085 ± 0.0009849
2
1.8
1.6
1.4
1.2
1
0.8
0.6

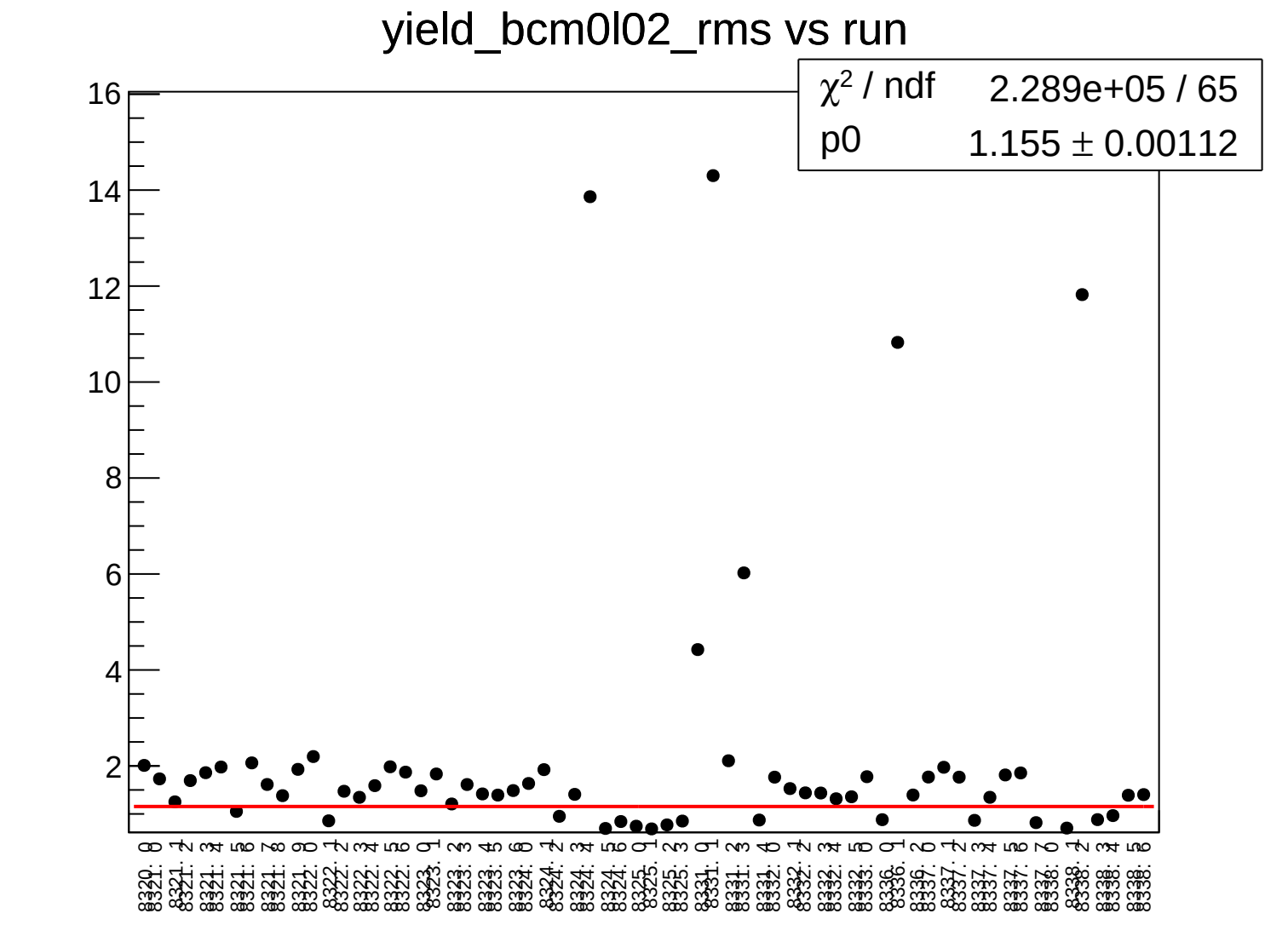

yield_cav4dQ_mean vs run
χ² / ndf 6.24e+05 / 65
p0 146.4 ± 0.000787
147.5
147
146.5
146
145.5
pull
Entries 66
Mean −1434
Std Dev 1470
150
100
50
0
−50
−100
−150

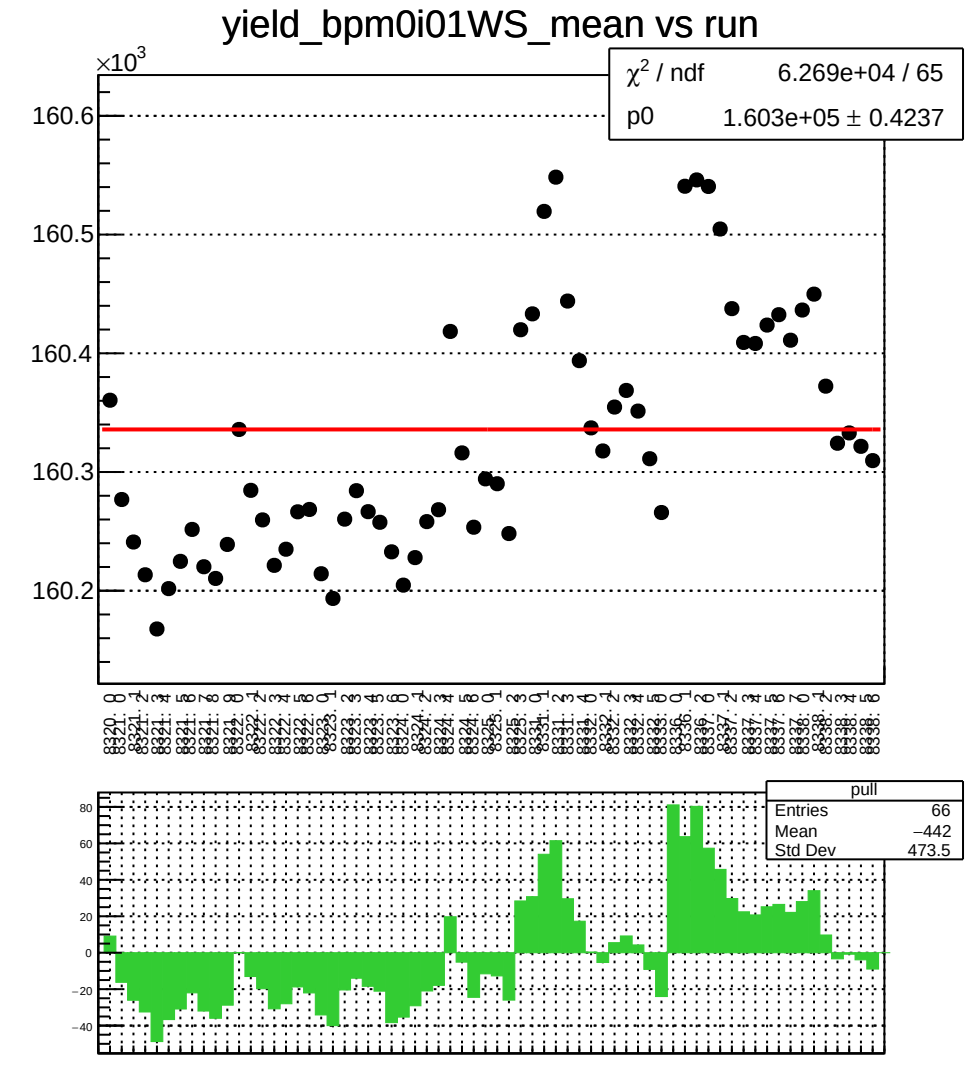

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

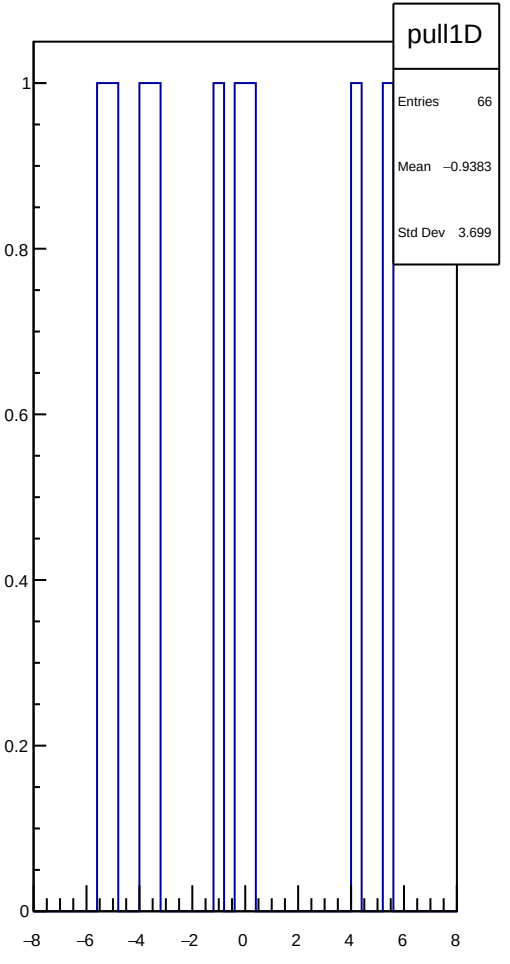

yield_cav4dQ_rms vs run
χ² / ndf 3787 / 65
p0 0.6316 ± 0.0005565
0.76
0.74
0.72
0.7
0.68
0.66
0.64
0.62
0.6
0.58
0.56

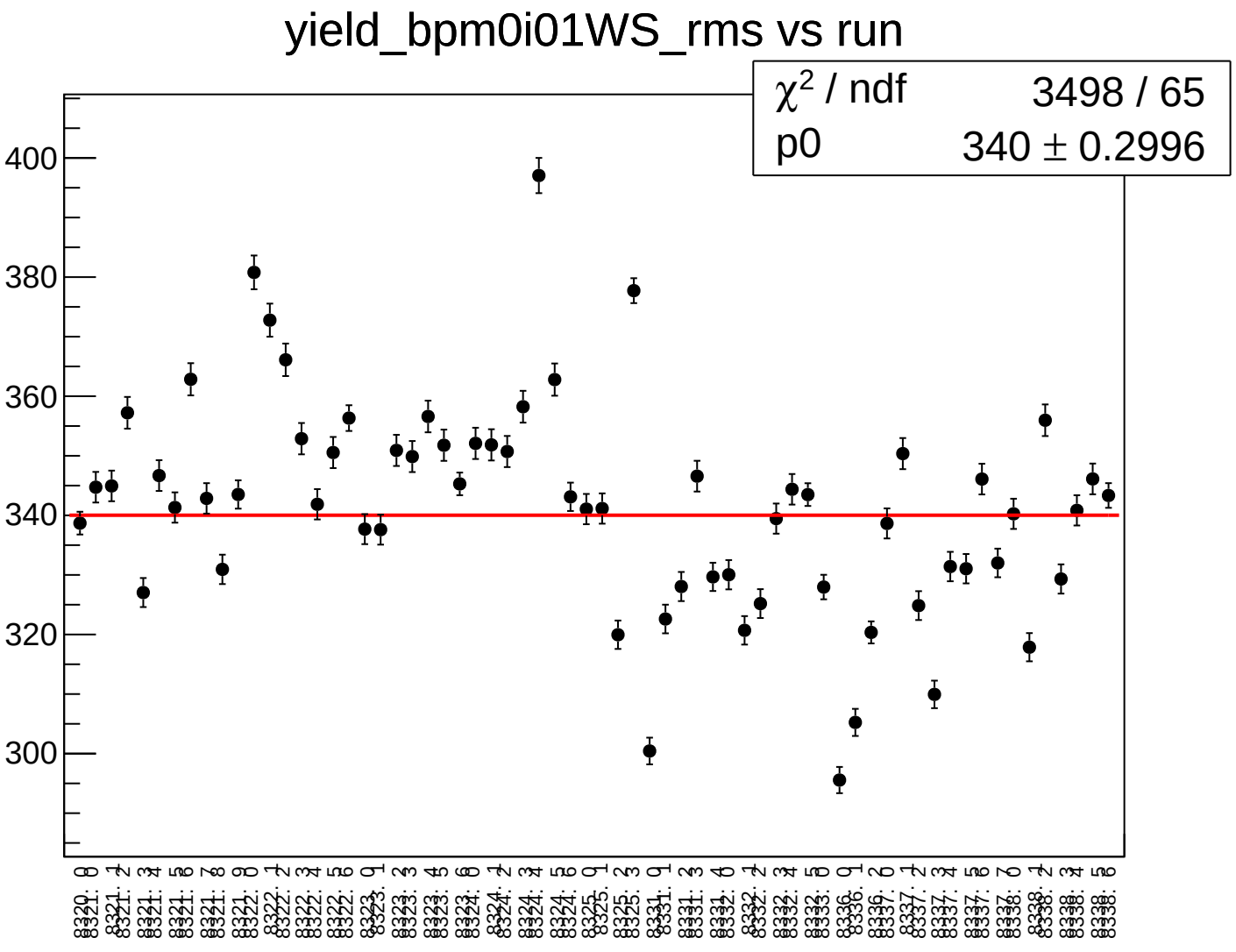

yield_bcm0l02_mean vs run
χ² / ndf 8.056e+07 / 65
p0 167.5 ± 0.001584
pull
Entries 66
Mean 27.81
Std Dev 29.06

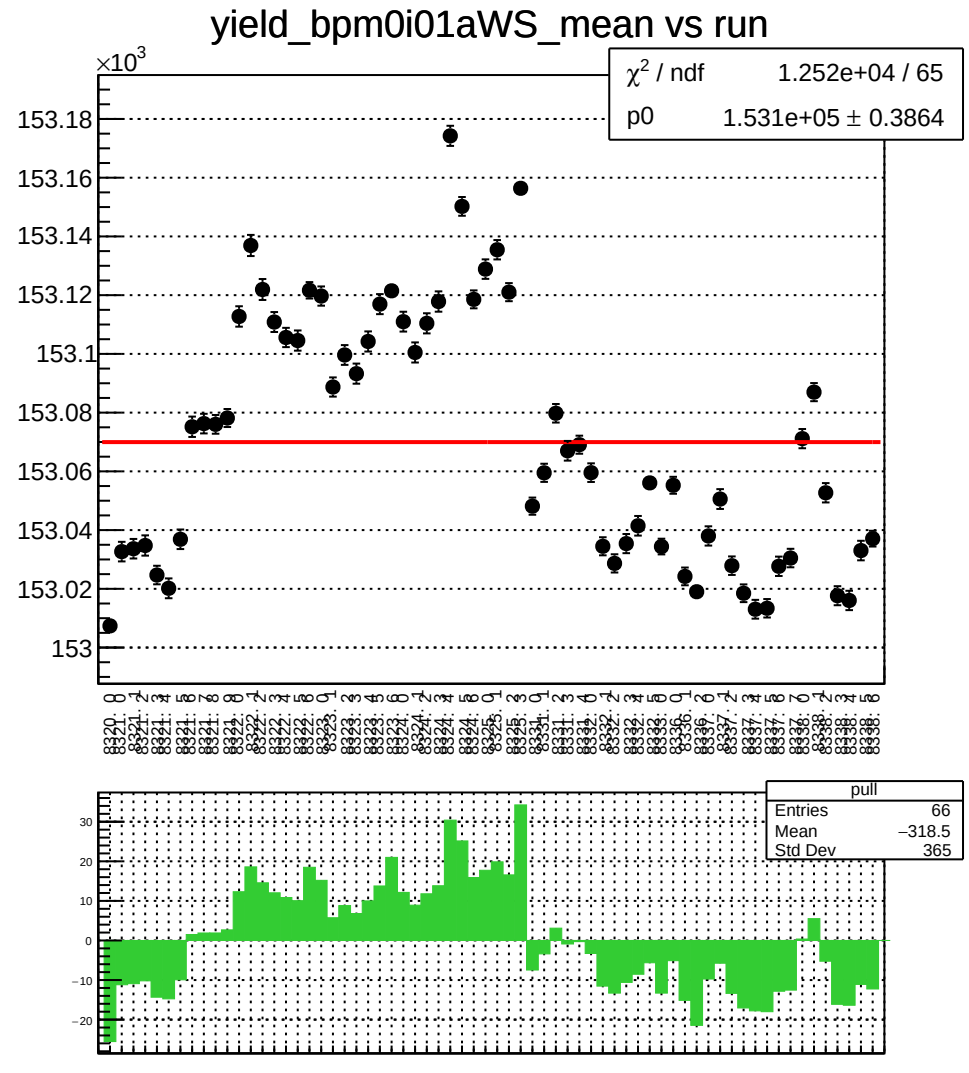

pull1D
Entries 66
Mean 0
Std Dev 0

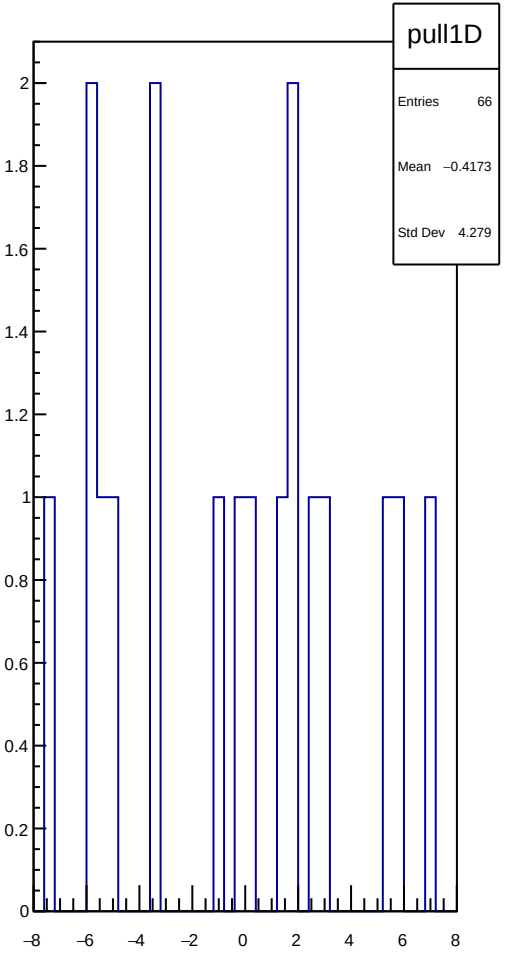

yield_bcm0l02_rms vs run
χ² / ndf 2.289e+05 / 65
p0 1.155 ± 0.00112
16
14
12
10
8
6
4
2

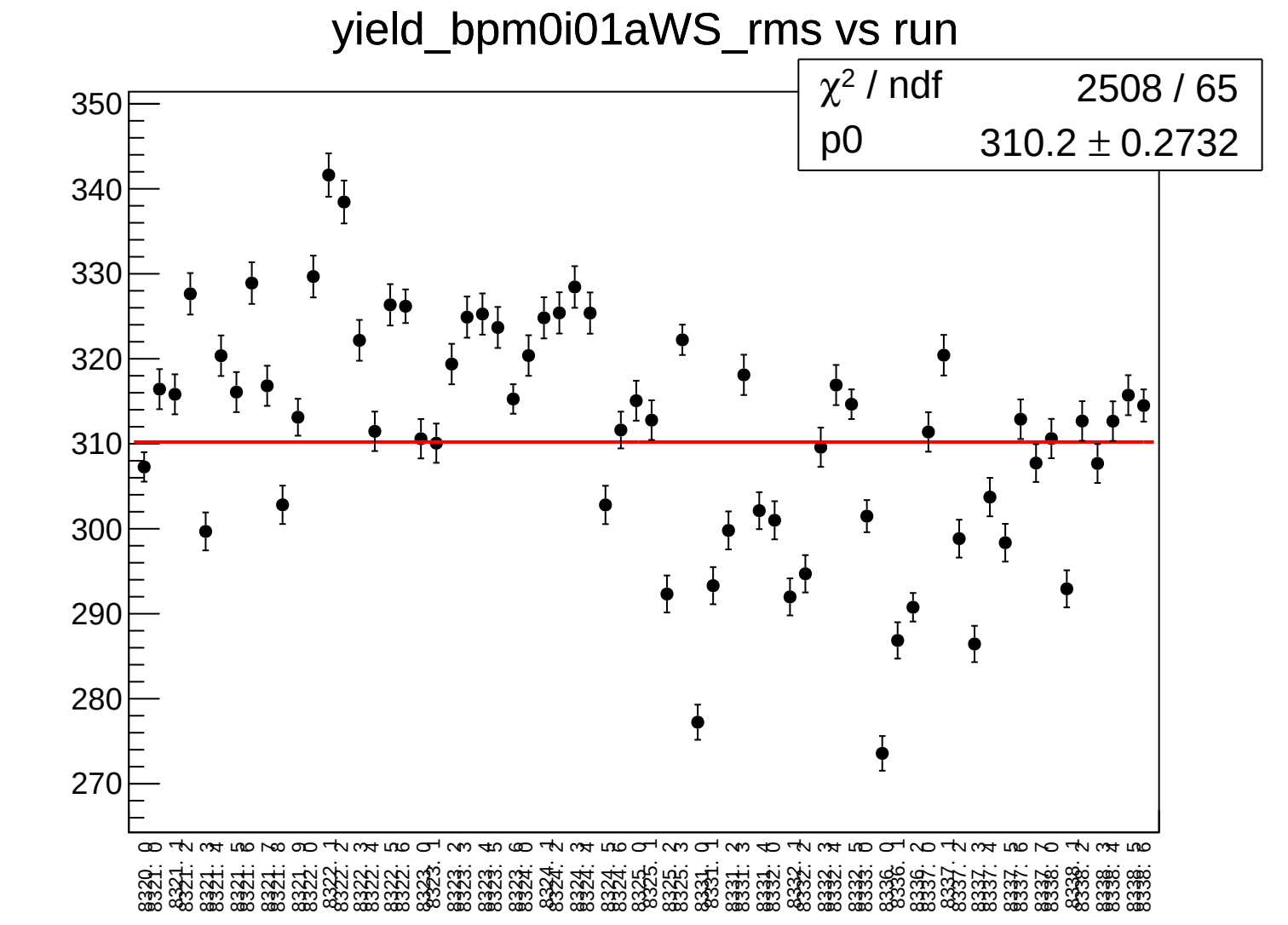

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 6.269e+04 / 65
p0 1.603e+05 ± 0.4237
160.6
160.5
160.4
160.3
160.2
pull
Entries 66
Mean −442
Std Dev 473.5
80
60
40
20
0
−20
−40

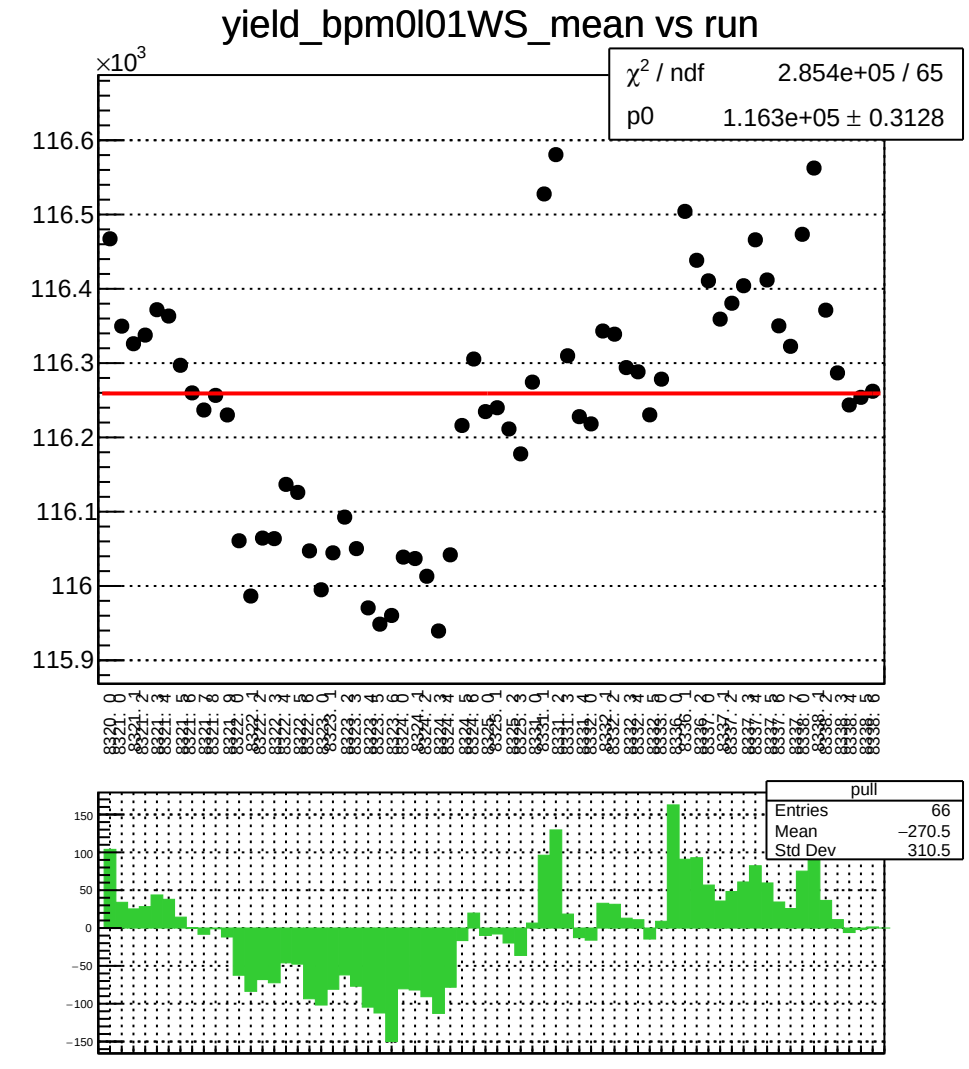

pull1D
Entries 66
Mean −0.9383
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

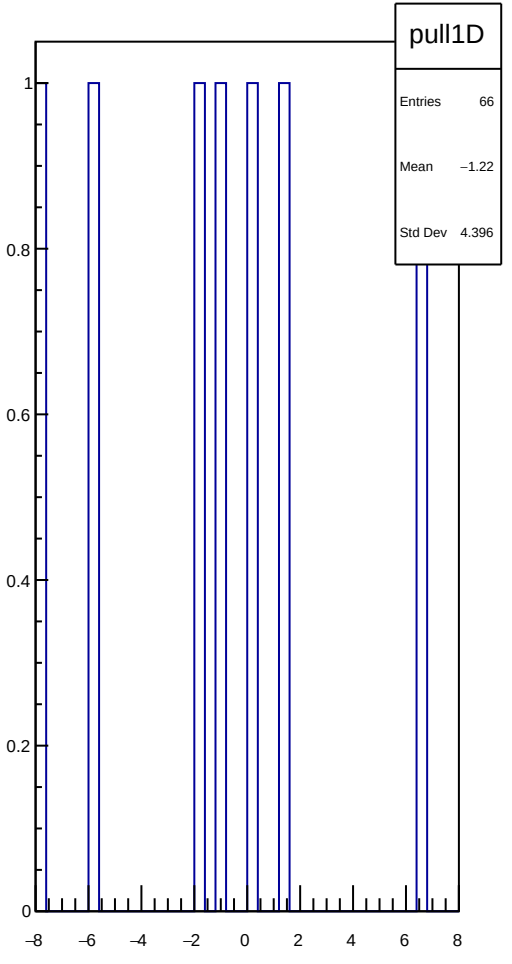

yield_bpm0i01WS_rms vs run
χ² / ndf 3498 / 65
p0 340 ± 0.2996
400
380
360
340
320
300

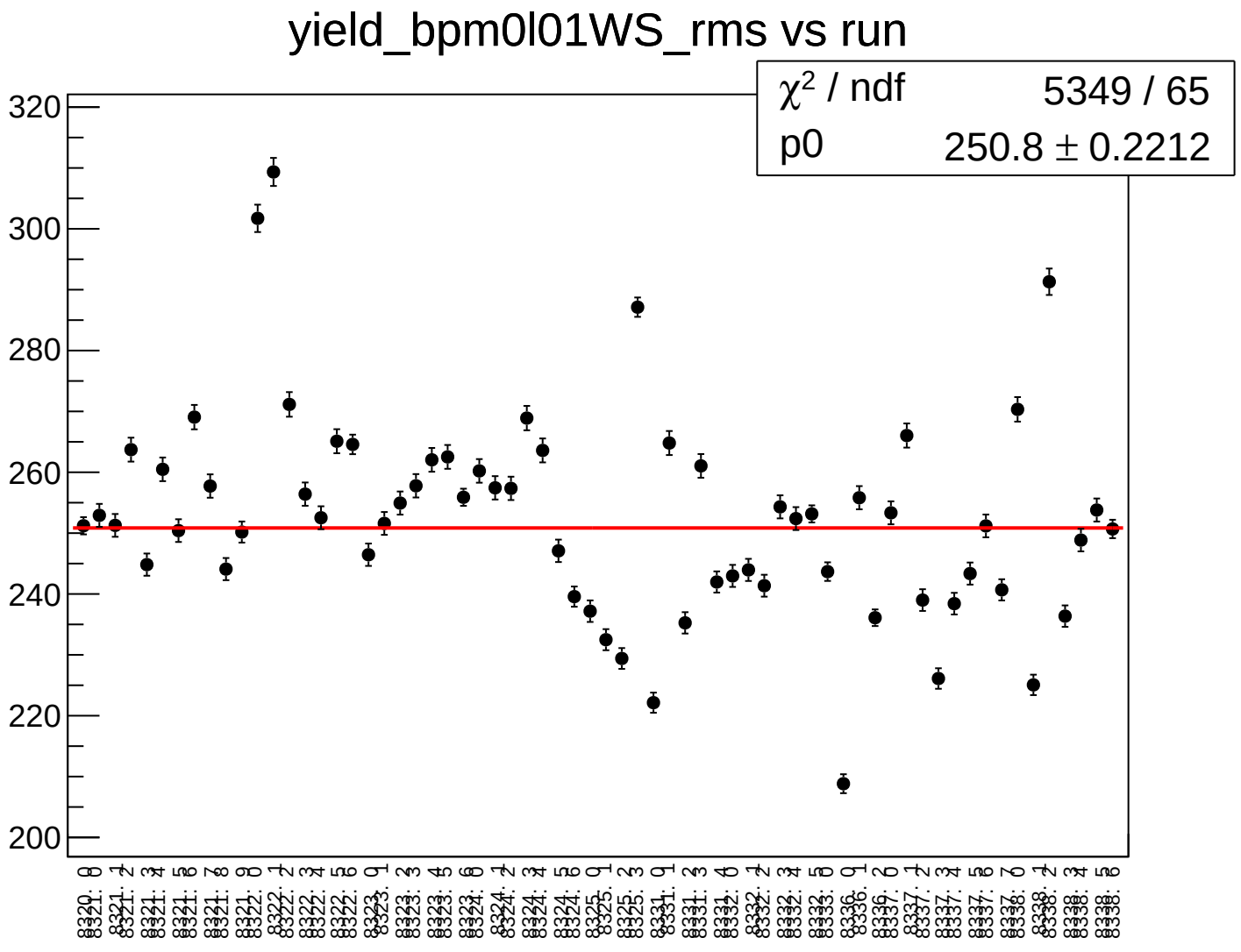

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 1.252e+04 / 65
p0 1.531e+05 ± 0.3864
153.18
153.16
153.14
153.12
153.1
153.08
153.06
153.04
153.02
153
pull
Entries 66
Mean −318.5
Std Dev 365
30
20
10
0
−10
−20

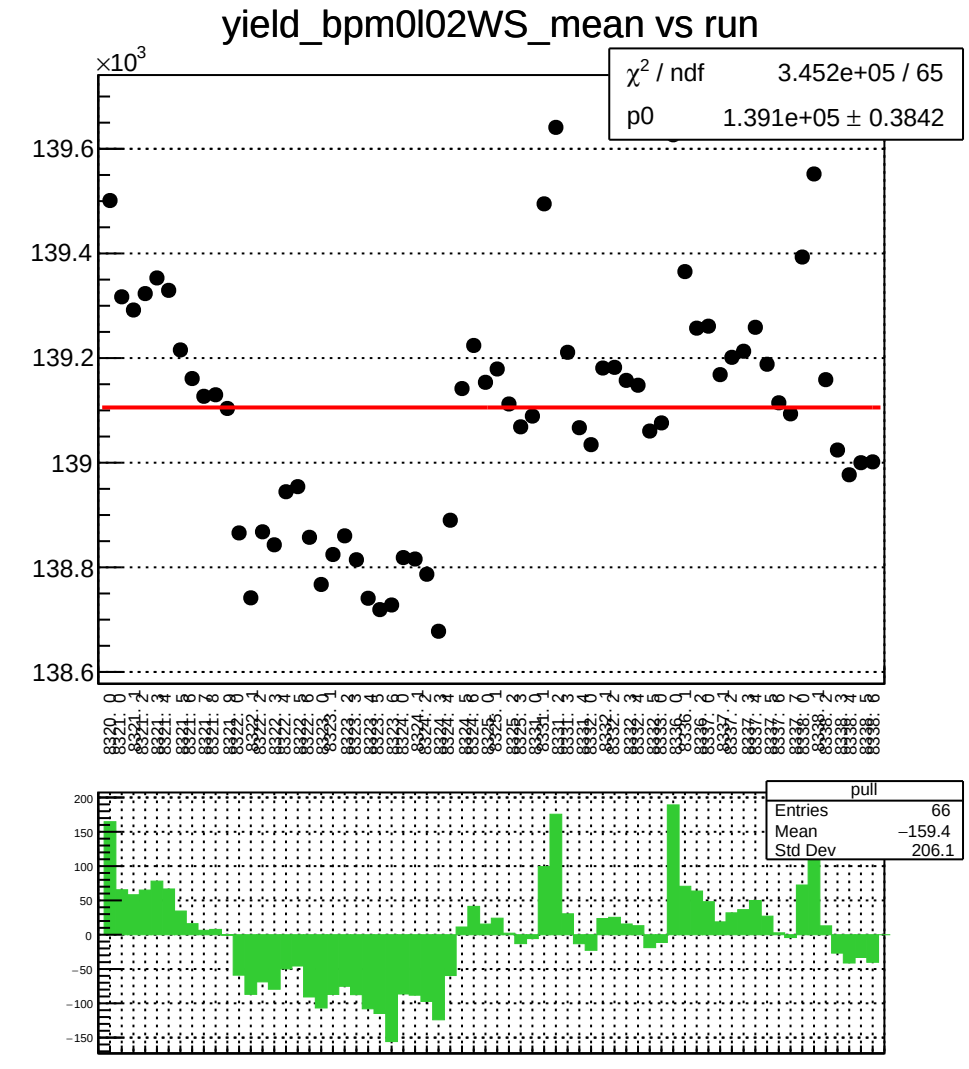

pull1D
Entries 66
Mean −0.4173
Std Dev 4.279
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

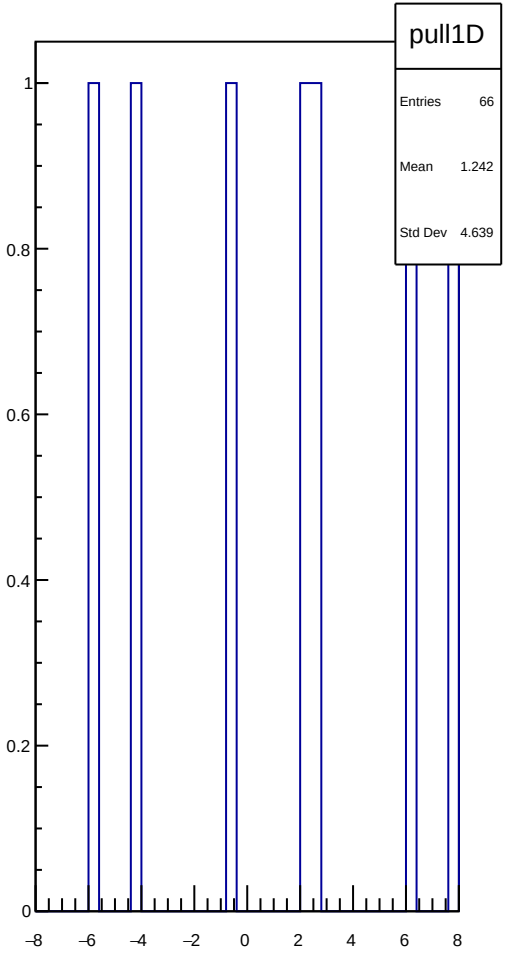

yield_bpm0i01aWS_rms vs run
χ² / ndf 2508 / 65
p0 310.2 ± 0.2732
350
340
330
320
310
300
290
280
270

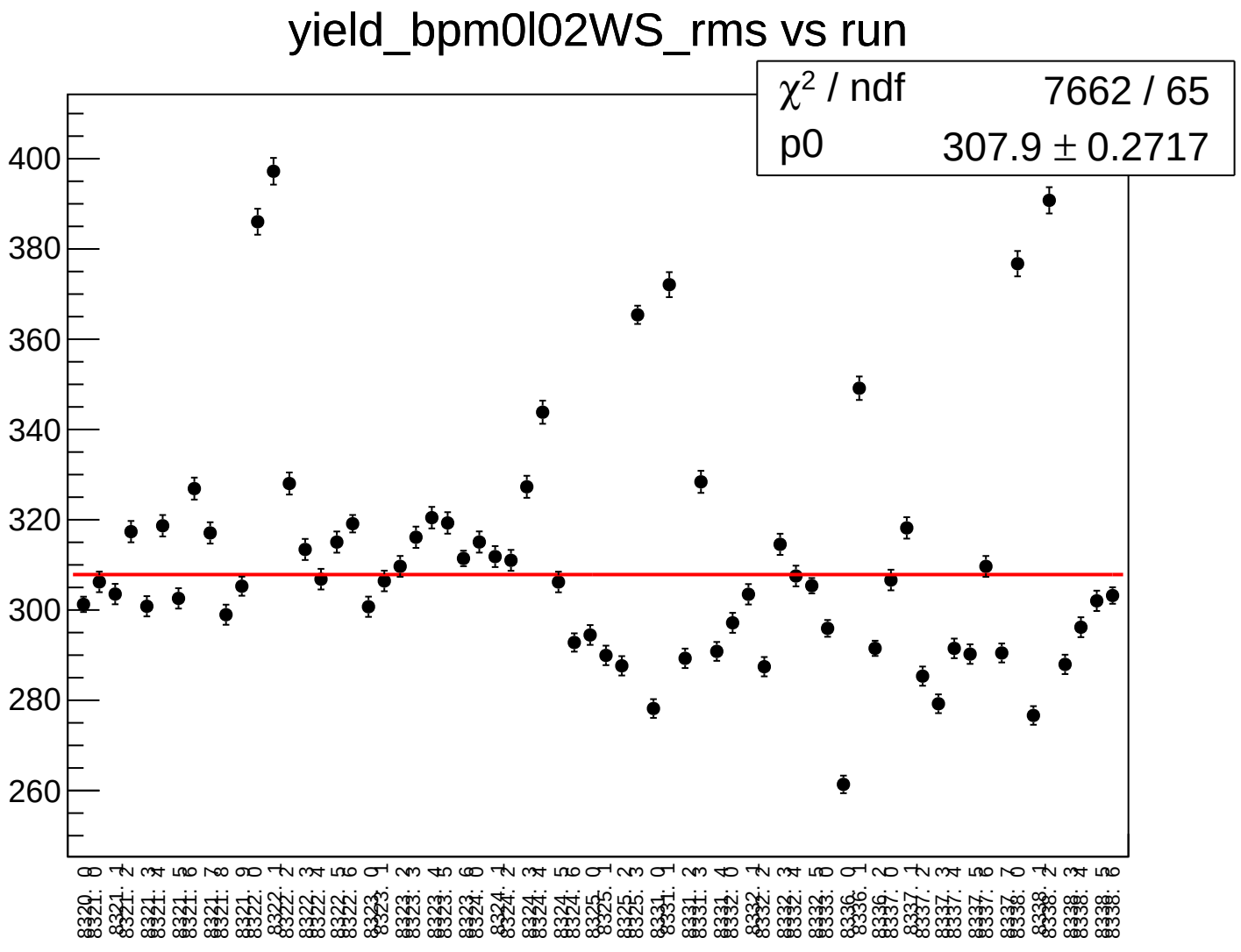

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.854e+05 / 65
p0 1.163e+05 ± 0.3128
116.6
116.5
116.4
116.3
116.2
116.1
116
115.9
pull
Entries 66
Mean −270.5
Std Dev 310.5
150
100
50
0
−50
−100
−150

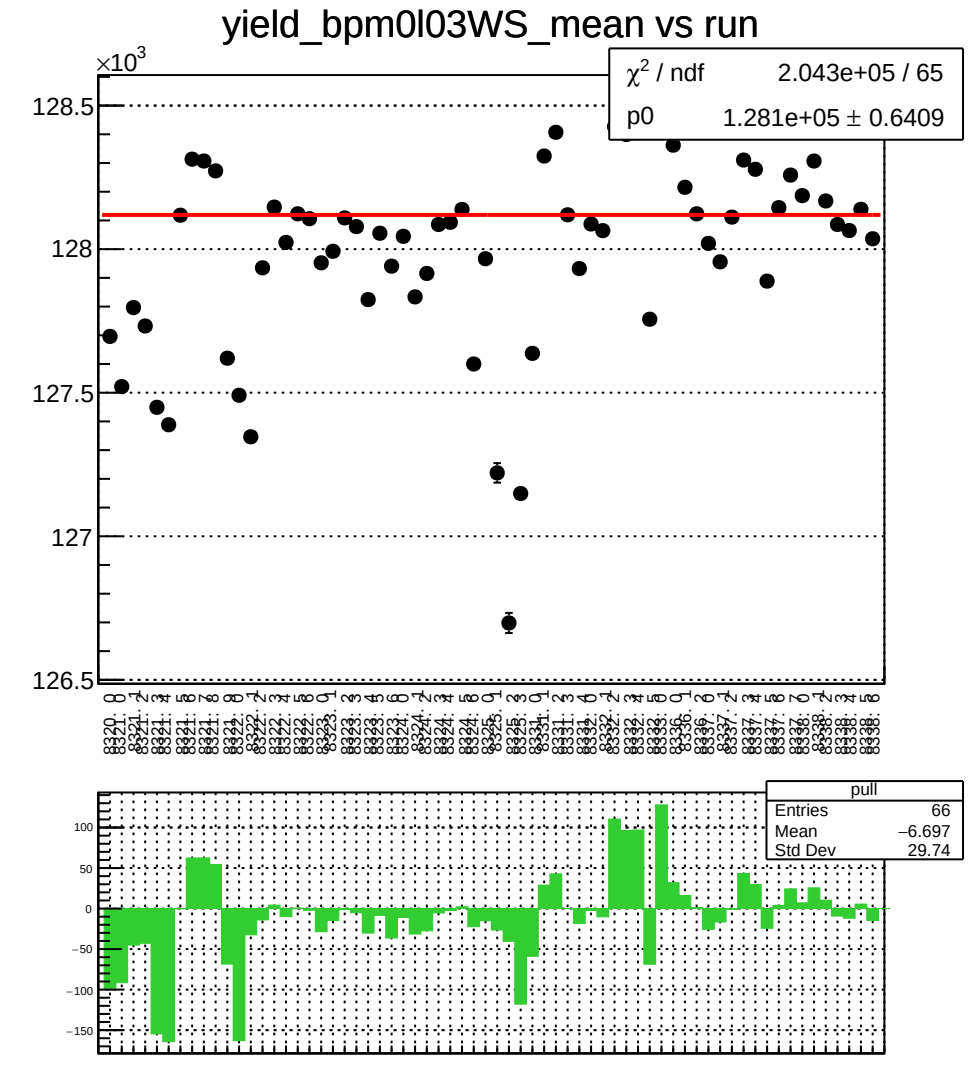

pull1D
Entries 66
Mean −1.22
Std Dev 4.396
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

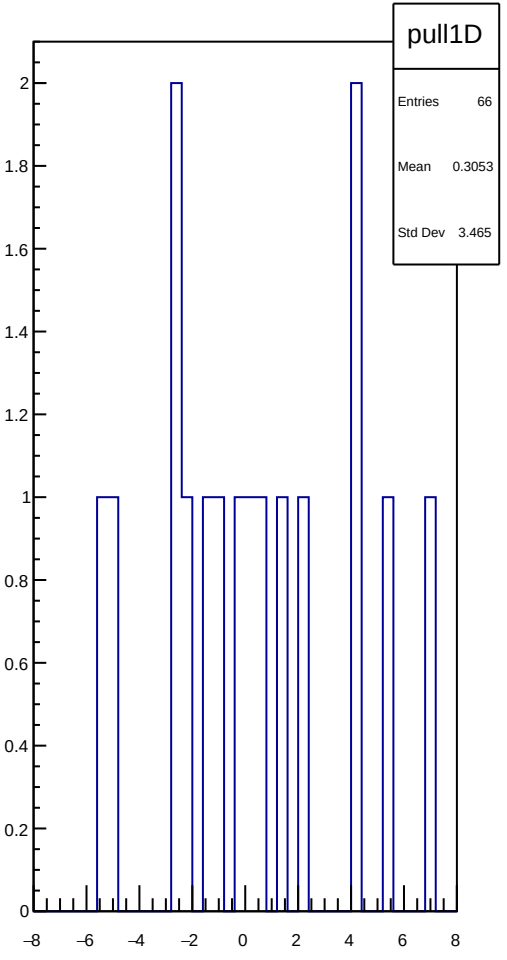

yield_bpm0l01WS_rms vs run
χ² / ndf 5349 / 65
p0 250.8 ± 0.2212
320
300
280
260
240
220
200

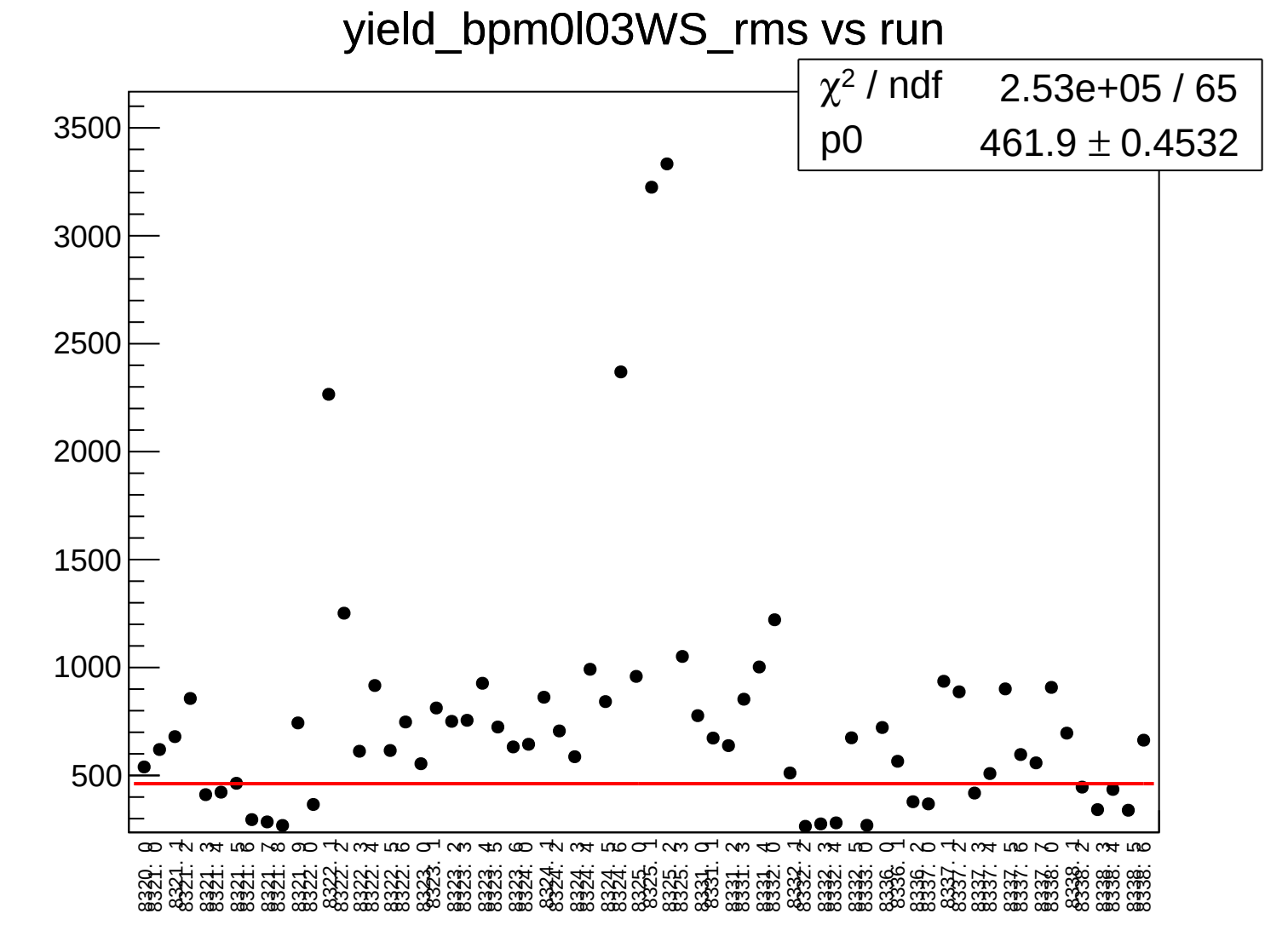

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.452e+05 / 65
p0 1.391e+05 ± 0.3842
139.6
139.4
139.2
139
138.8
138.6
pull
Entries 66
Mean −159.4
Std Dev 206.1
200
150
100
50
0
−50
−100
−150

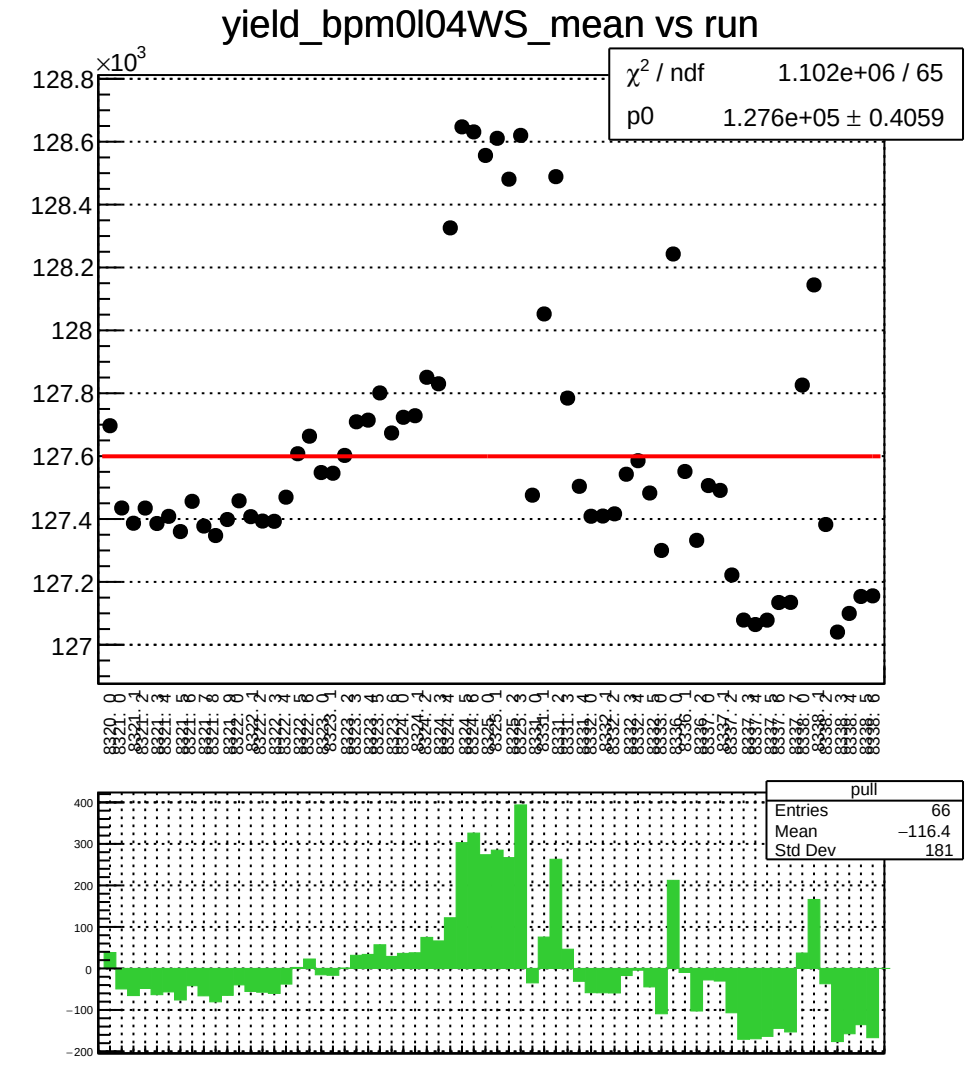

pull1D
Entries 66
Mean 1.242
Std Dev 4.639
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

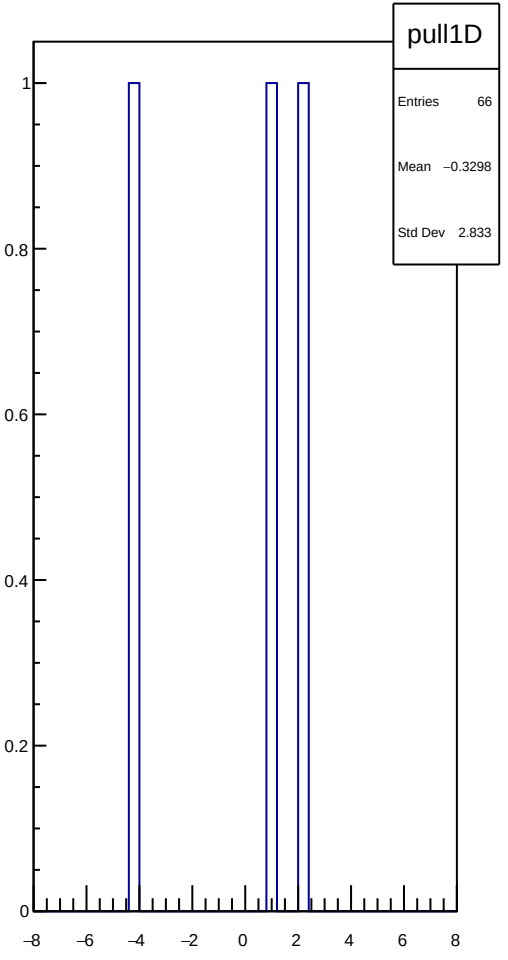

yield_bpm0l02WS_rms vs run
χ² / ndf 7662 / 65
p0 307.9 ± 0.2717
400
380
360
340
320
300
280
260

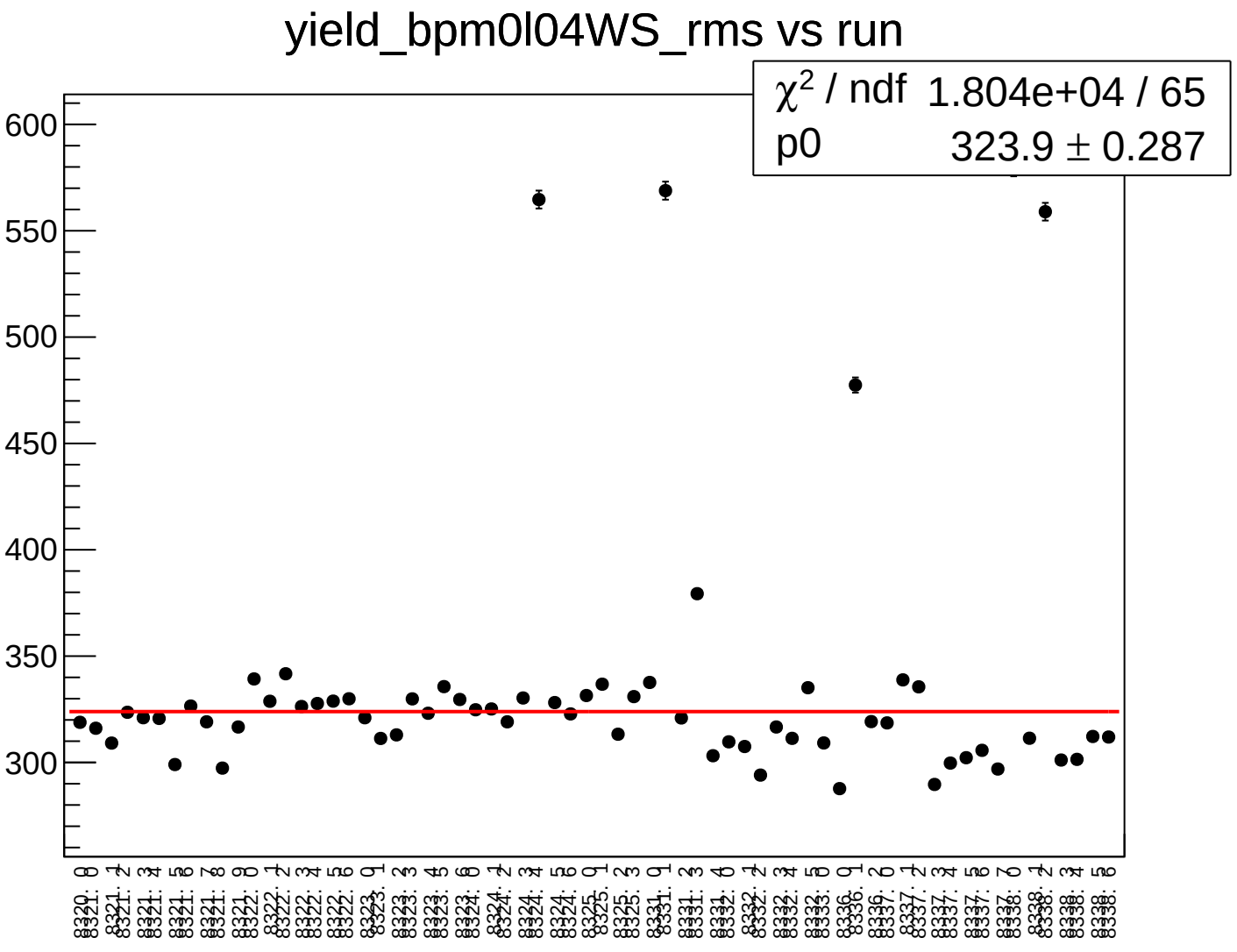

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 2.043e+05 / 65
p0 1.281e+05 ± 0.6409
128.5
128
127.5
127
126.5
pull
Entries 66
Mean −6.697
Std Dev 29.74
100
50
0
−50
−100
−150

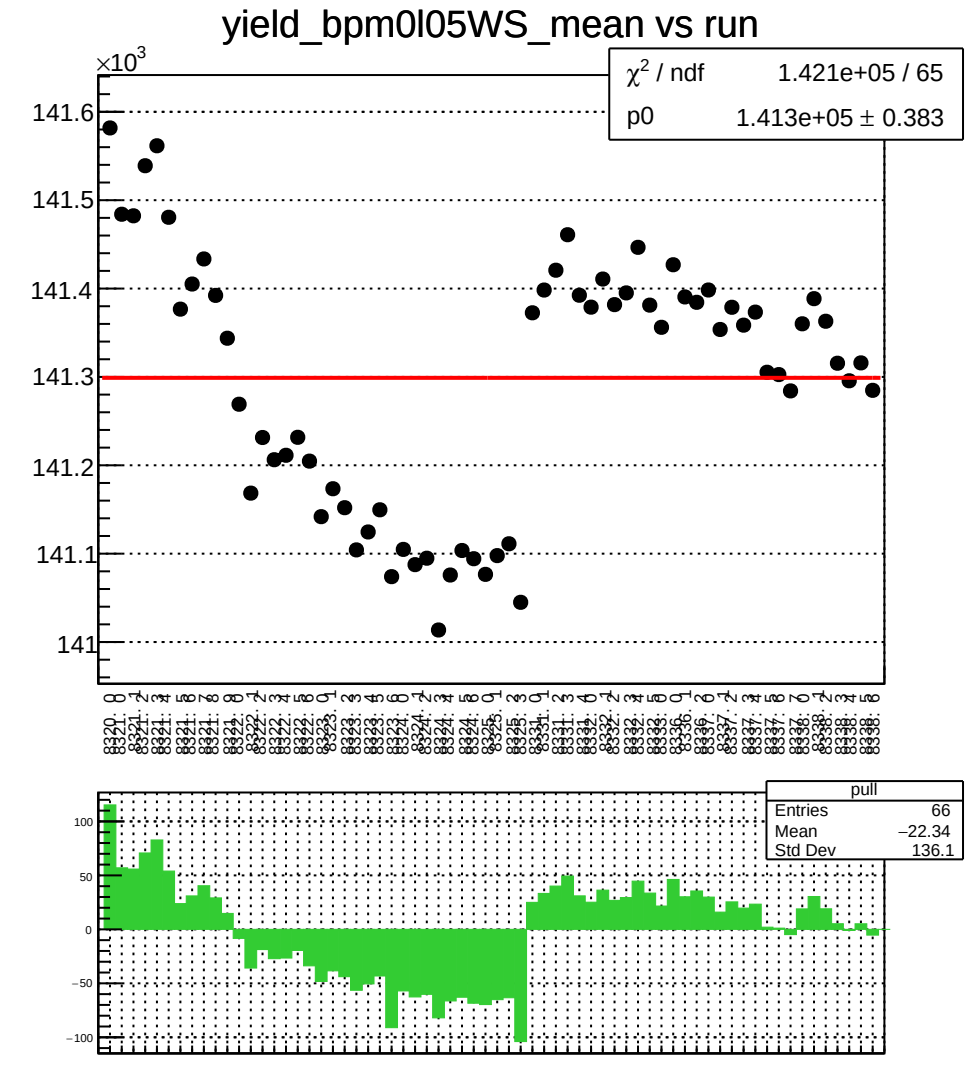

pull1D
Entries 66
Mean 0.3053
Std Dev 3.465
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

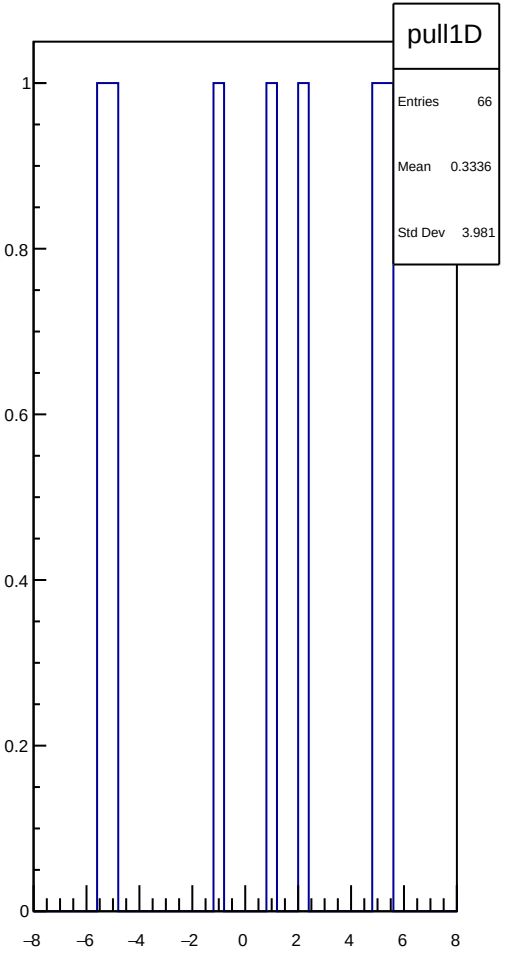

yield_bpm0l03WS_rms vs run
χ² / ndf 2.53e+05 / 65
p0 461.9 ± 0.4532
3500
3000
2500
2000
1500
1000
500

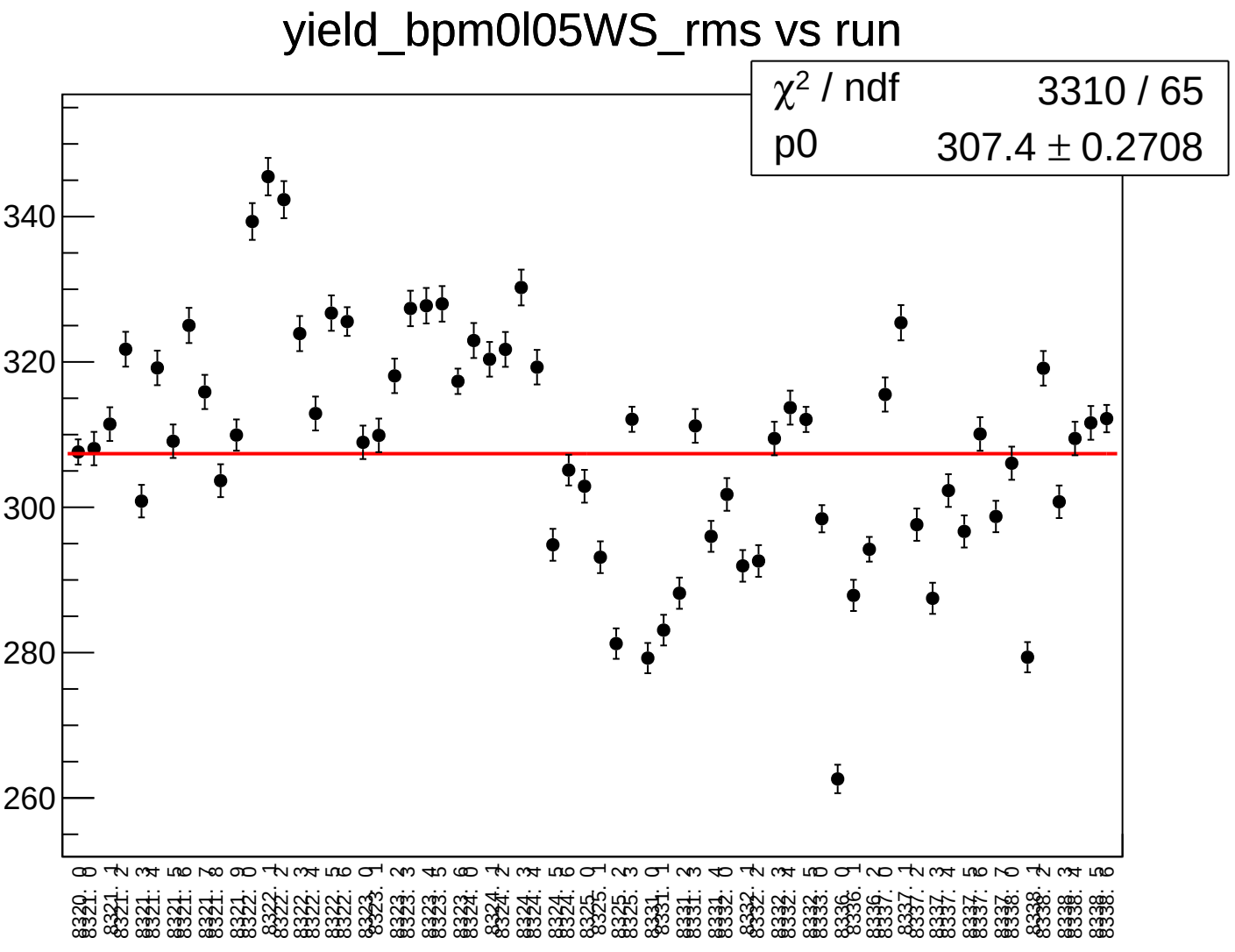

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.102e+06 / 65
p0 1.276e+05 ± 0.4059
128.8
128.6
128.4
128.2
128
127.8
127.6
127.4
127.2
127
pull
Entries 66
Mean −116.4
Std Dev 181
400
300
200
100
0
−100
−200

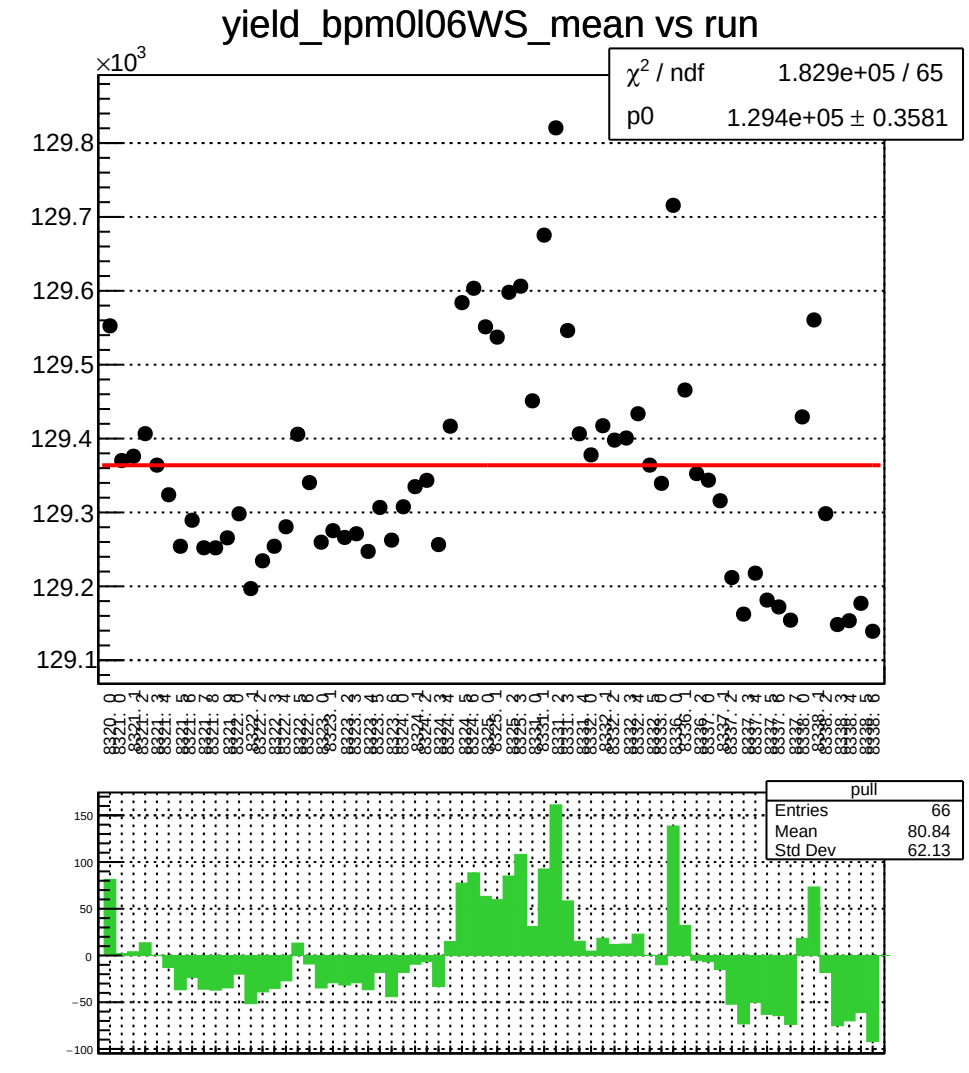

pull1D
Entries 66
Mean −0.3298
Std Dev 2.833
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

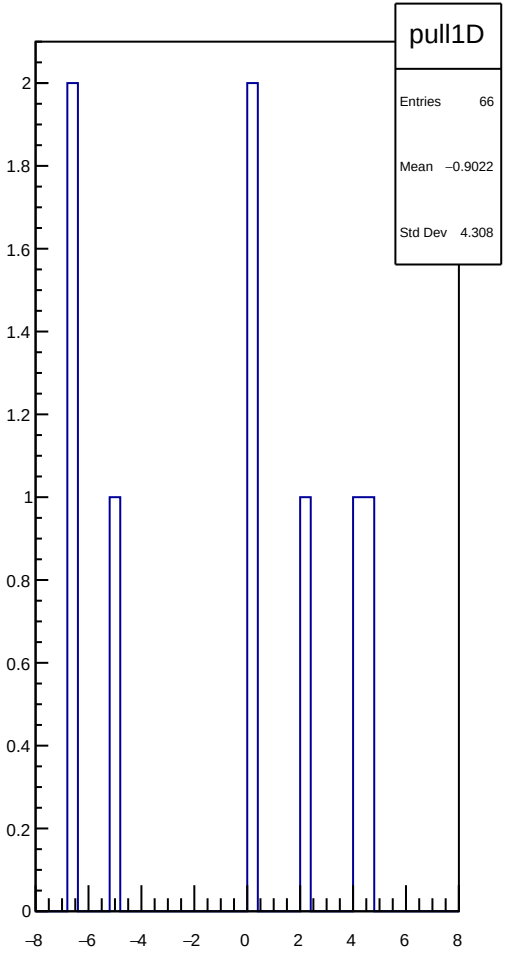

yield_bpm0l04WS_rms vs run
χ² / ndf 1.804e+04 / 65
p0 323.9 ± 0.287
600
550
500
450
400
350
300

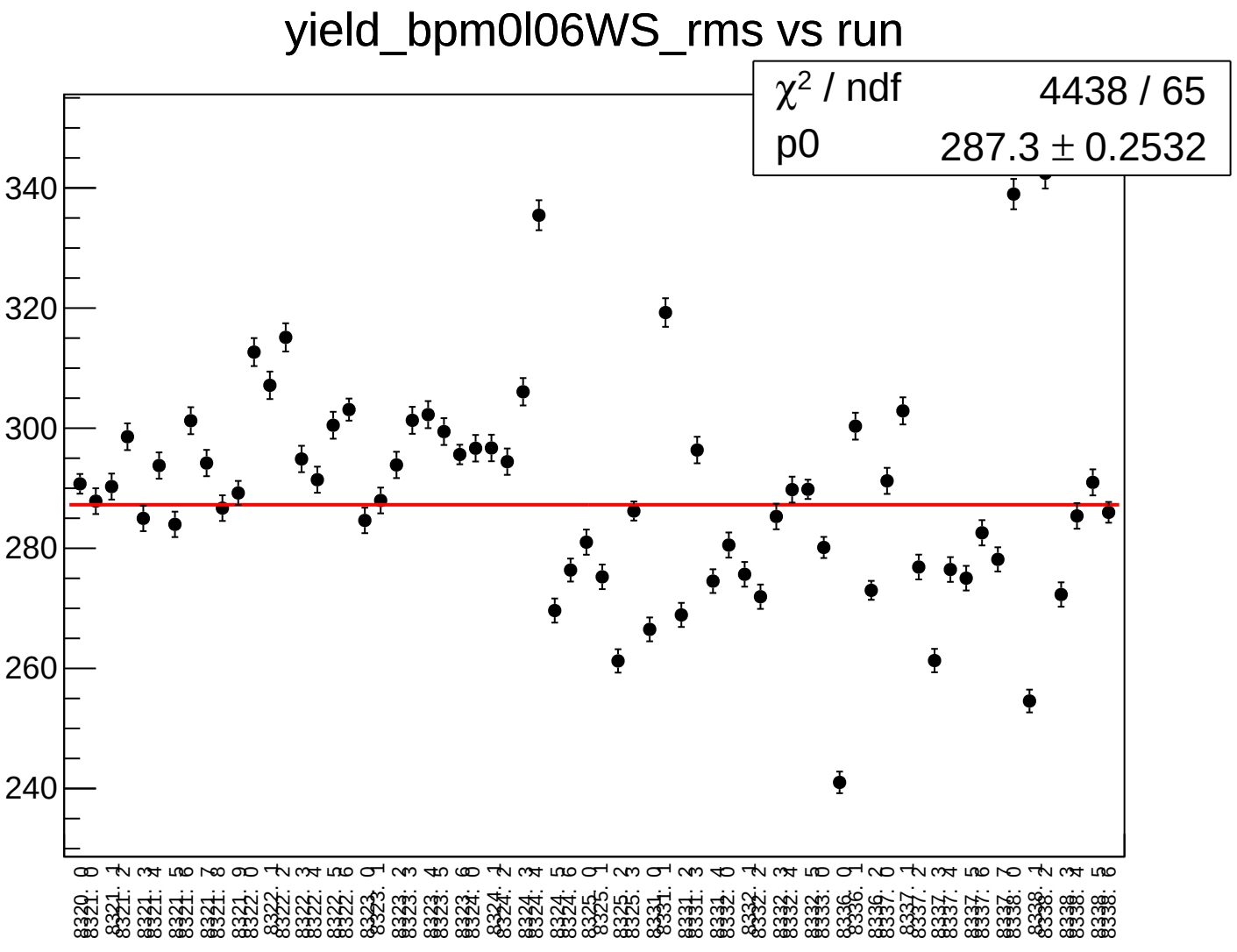

yield_bpm0l05WS_mean vs run
×10^3
χ^2 / ndf 1.421e+05 / 65
p0 1.413e+05 ± 0.383
141.6
141.5
141.4
141.3
141.2
141.1
141
pull
Entries 66
Mean −22.34
Std Dev 136.1
100
50
0
−50
−100

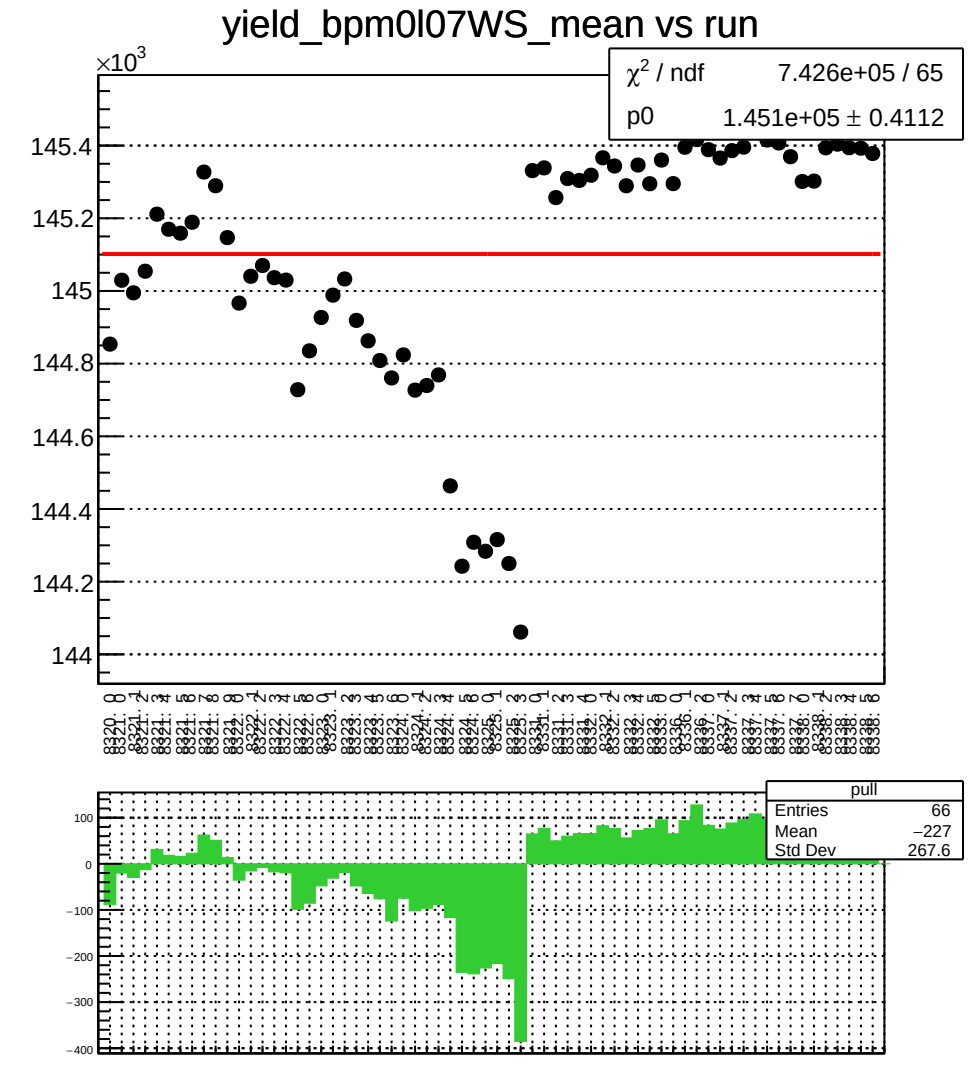

pull1D
Entries 66
Mean 0.3336
Std Dev 3.981
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

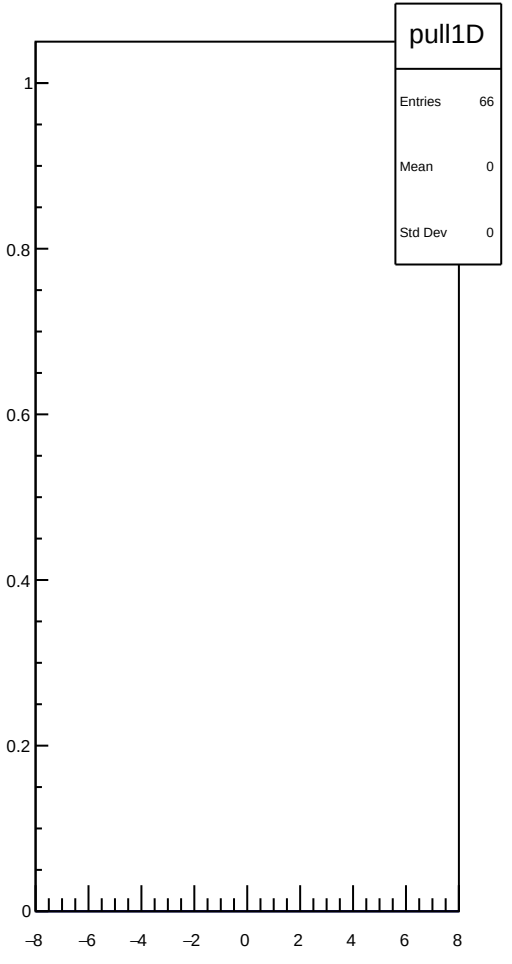

yield_bpm0l05WS_rms vs run
χ² / ndf 3310 / 65
p0 307.4 ± 0.2708
340
320
300
280
260

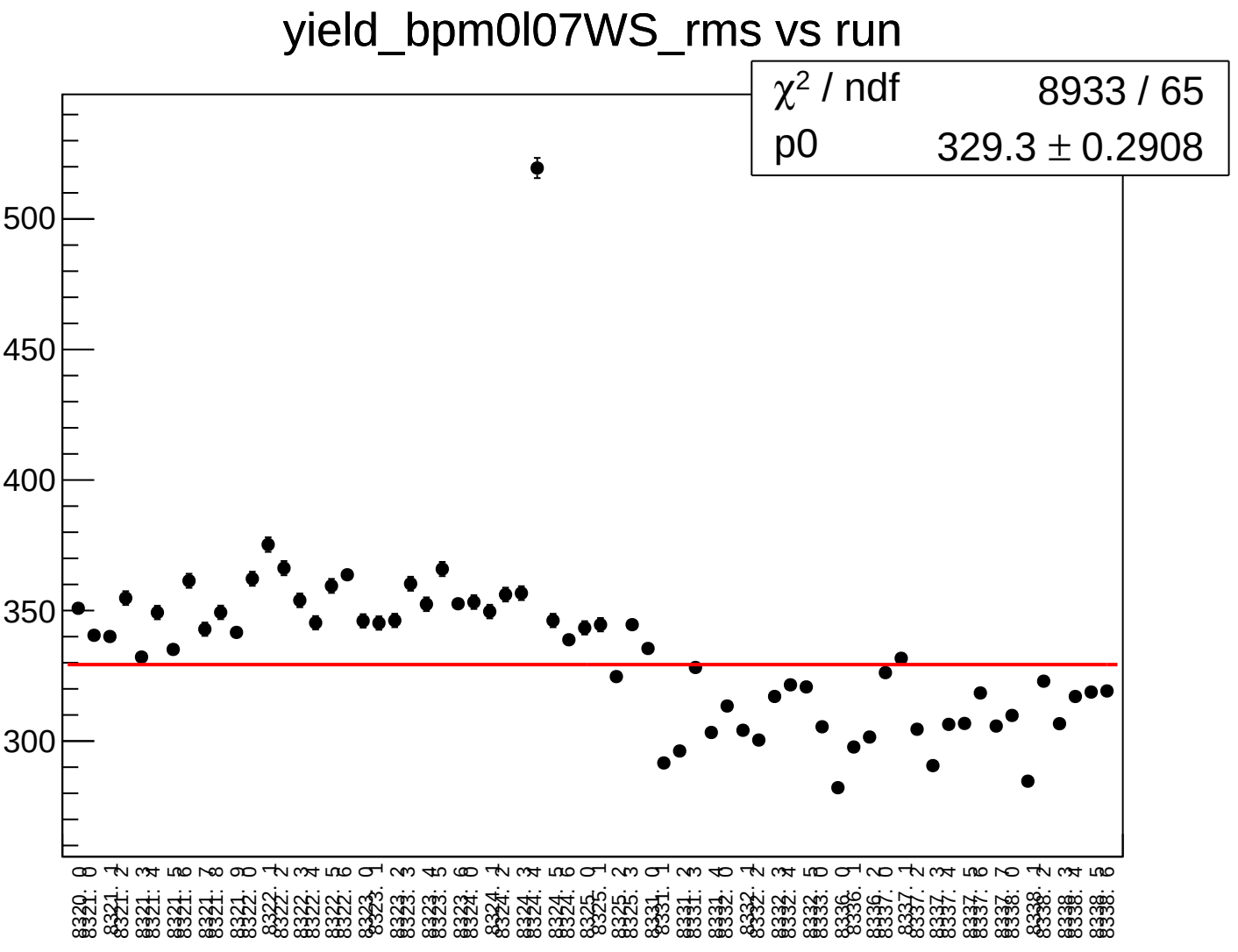

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.829e+05 / 65
p0 1.294e+05 ± 0.3581
129.8
129.7
129.6
129.5
129.4
129.3
129.2
129.1
pull
Entries 66
Mean 80.84
Std Dev 62.13
150
100
50
0
−50
−100

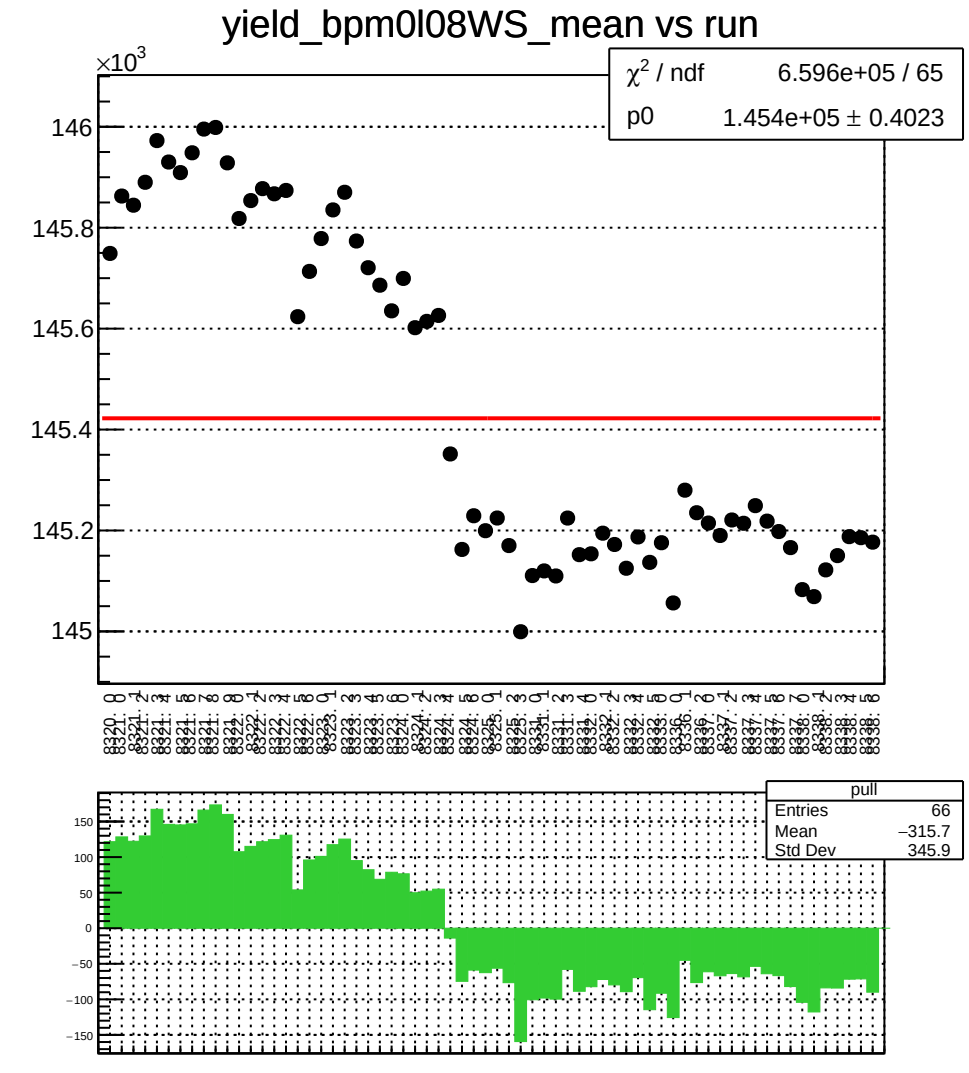

pull1D
Entries 66
Mean −0.9022
Std Dev 4.308
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

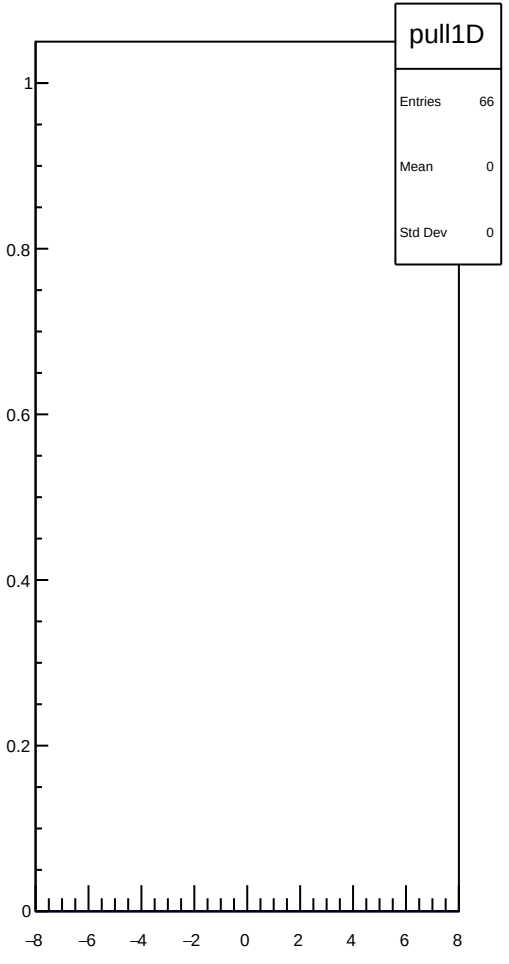

yield_bpm0l06WS_rms vs run
χ² / ndf 4438 / 65
p0 287.3 ± 0.2532
340
320
300
280
260
240

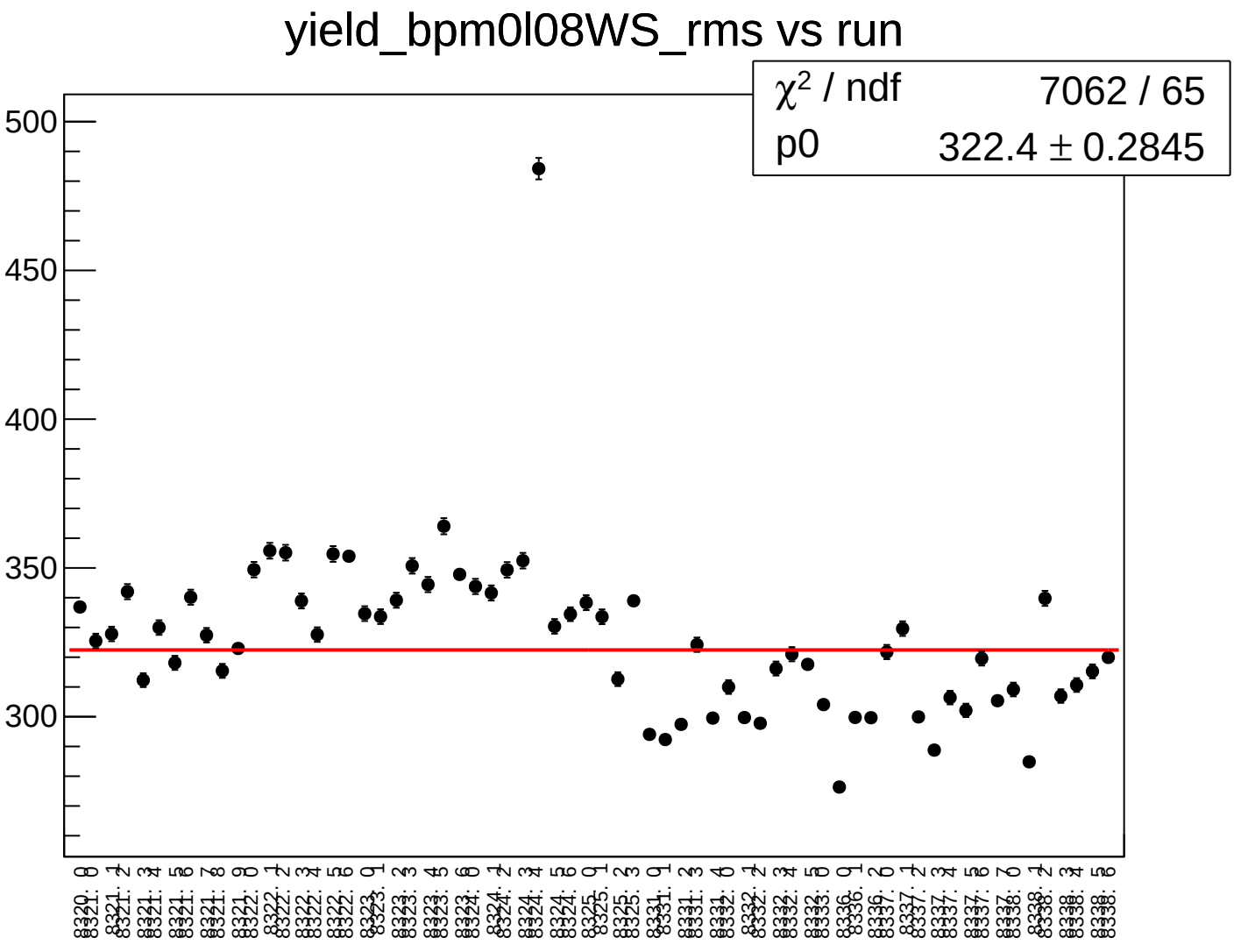

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 7.426e+05 / 65
p0 1.451e+05 ± 0.4112
145.4
145.2
145
144.8
144.6
144.4
144.2
144
pull
Entries 66
Mean −227
Std Dev 267.6
100
0
−100
−200
−300
−400

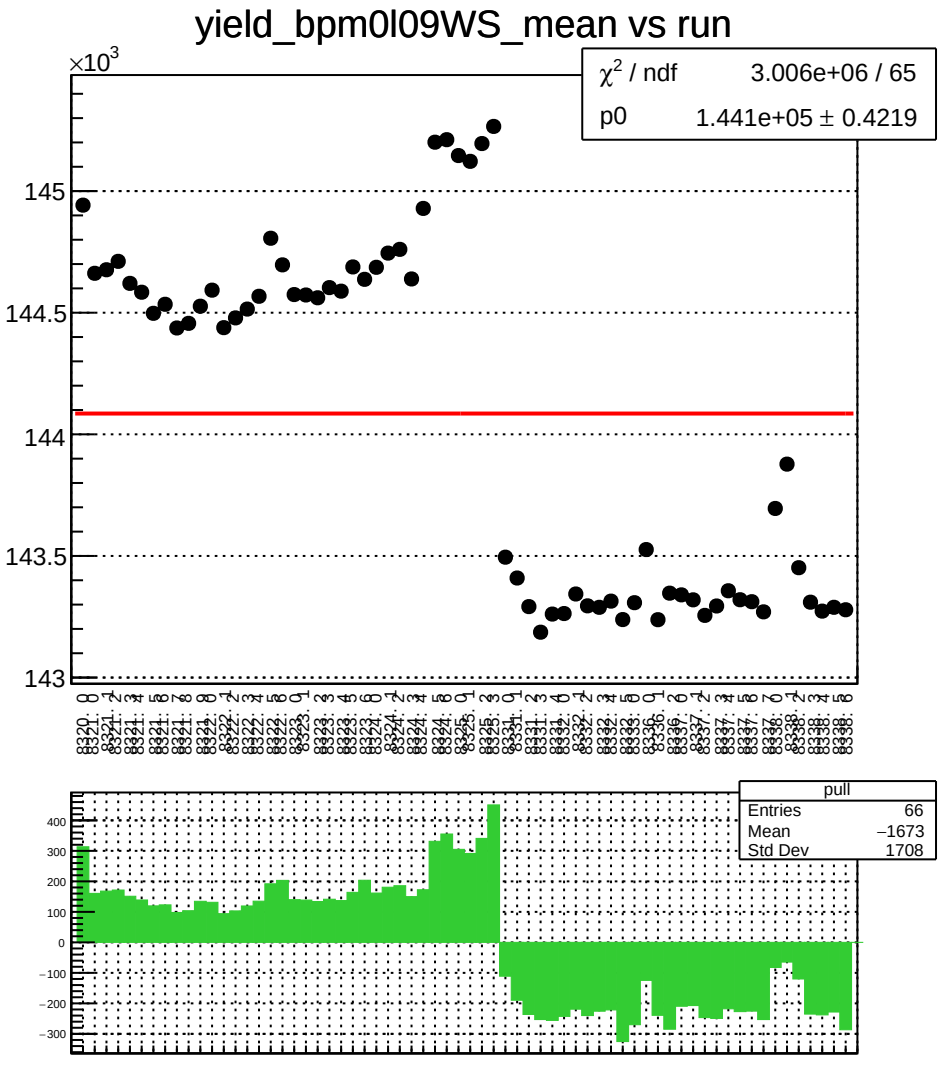

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

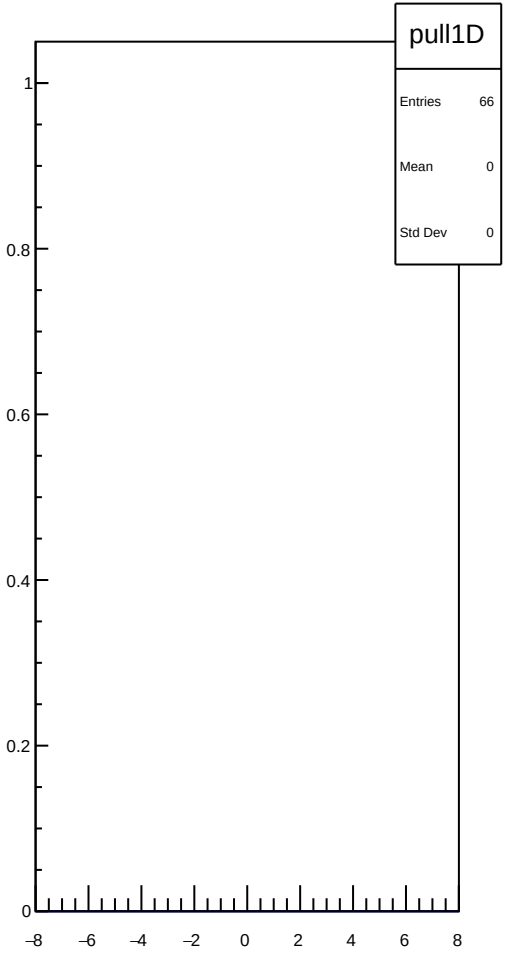

yield_bpm0l07WS_rms vs run
χ² / ndf 8933 / 65
p0 329.3 ± 0.2908
500
450
400
350
300

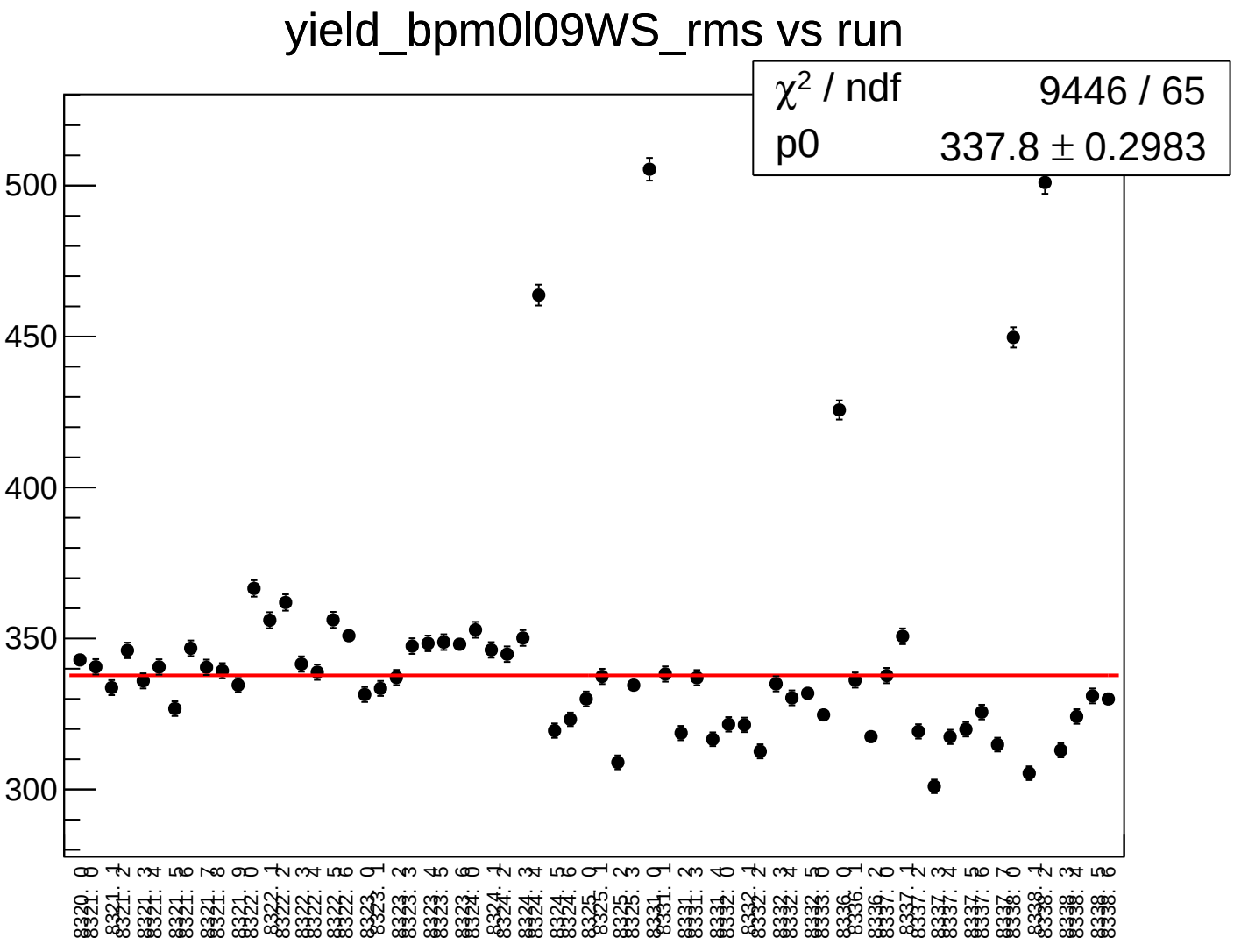

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 6.596e+05 / 65
p0 1.454e+05 ± 0.4023
146
145.8
145.6
145.4
145.2
145
pull
Entries 66
Mean −315.7
Std Dev 345.9
150
100
50
0
−50
−100
−150

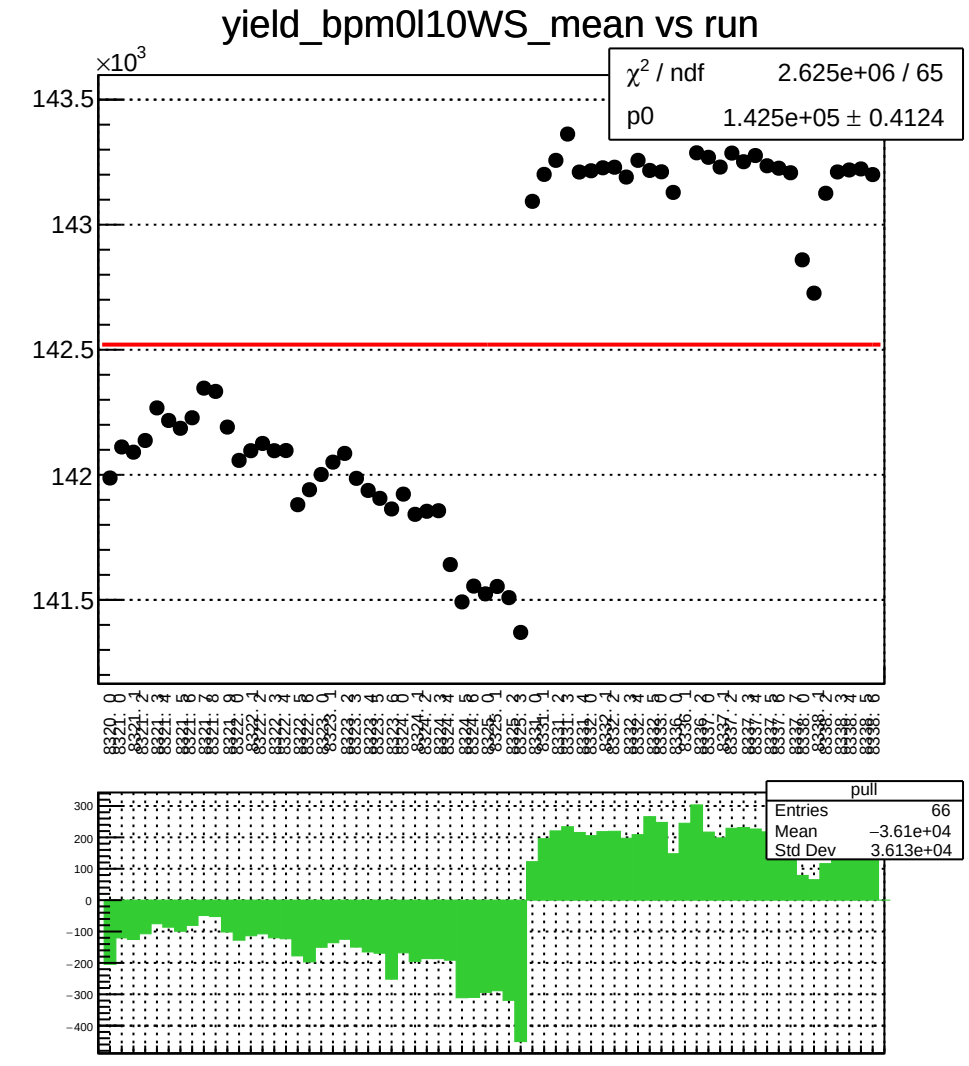

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

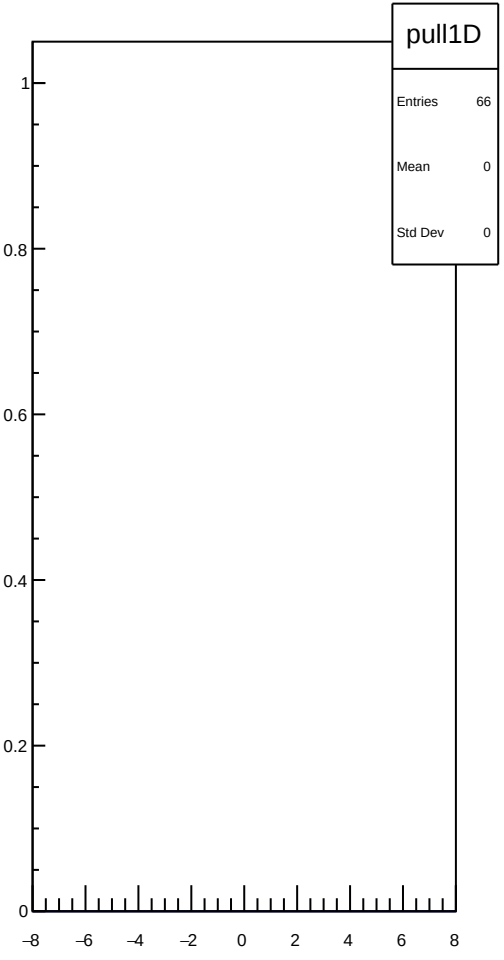

yield_bpm0l08WS_rms vs run
χ² / ndf 7062 / 65
p0 322.4 ± 0.2845
500
450
400
350
300

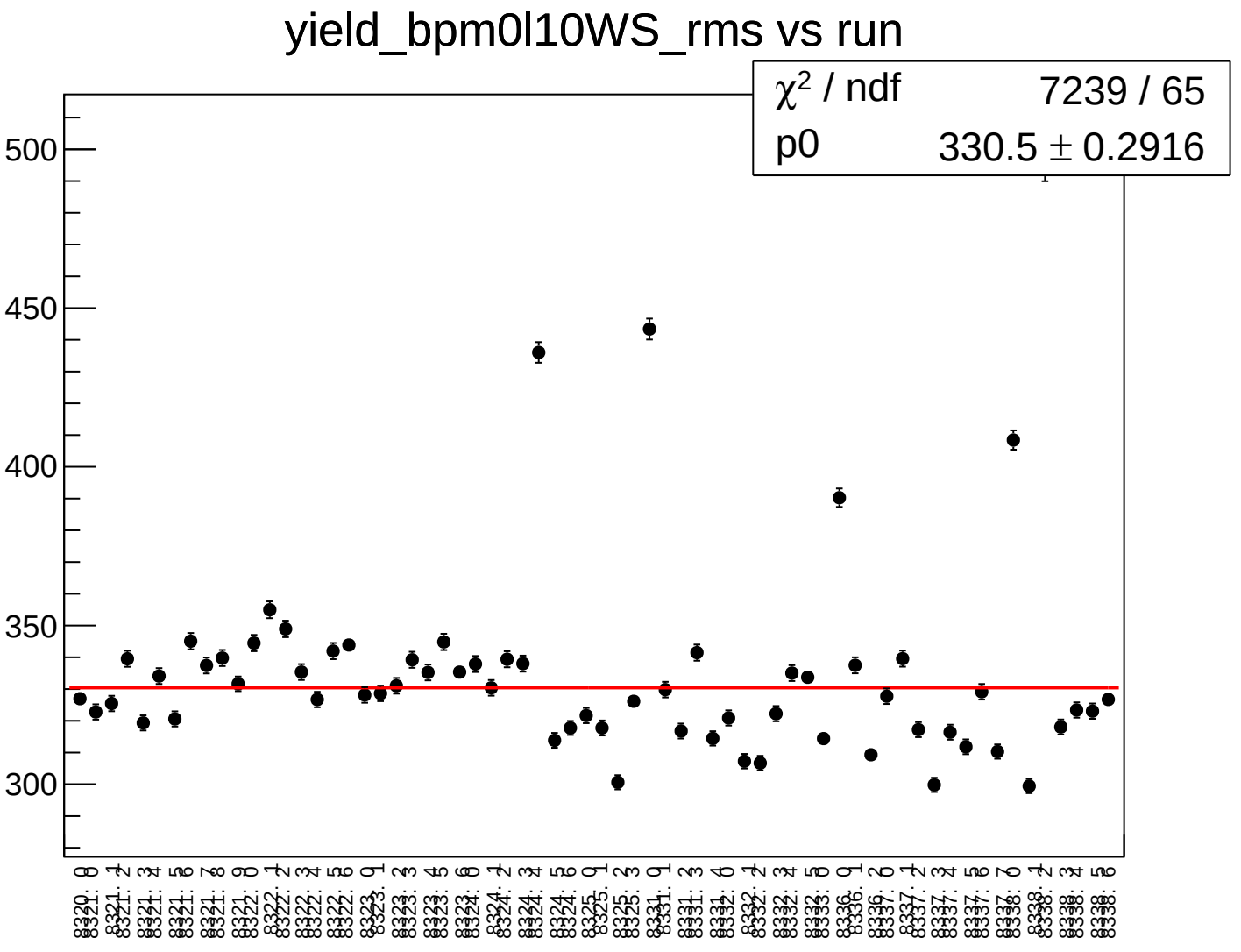

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 3.006e+06 / 65
p0 1.441e+05 ± 0.4219
145
144.5
144
143.5
143
pull
Entries 66
Mean −1673
Std Dev 1708
400
300
200
100
0
−100
−200
−300

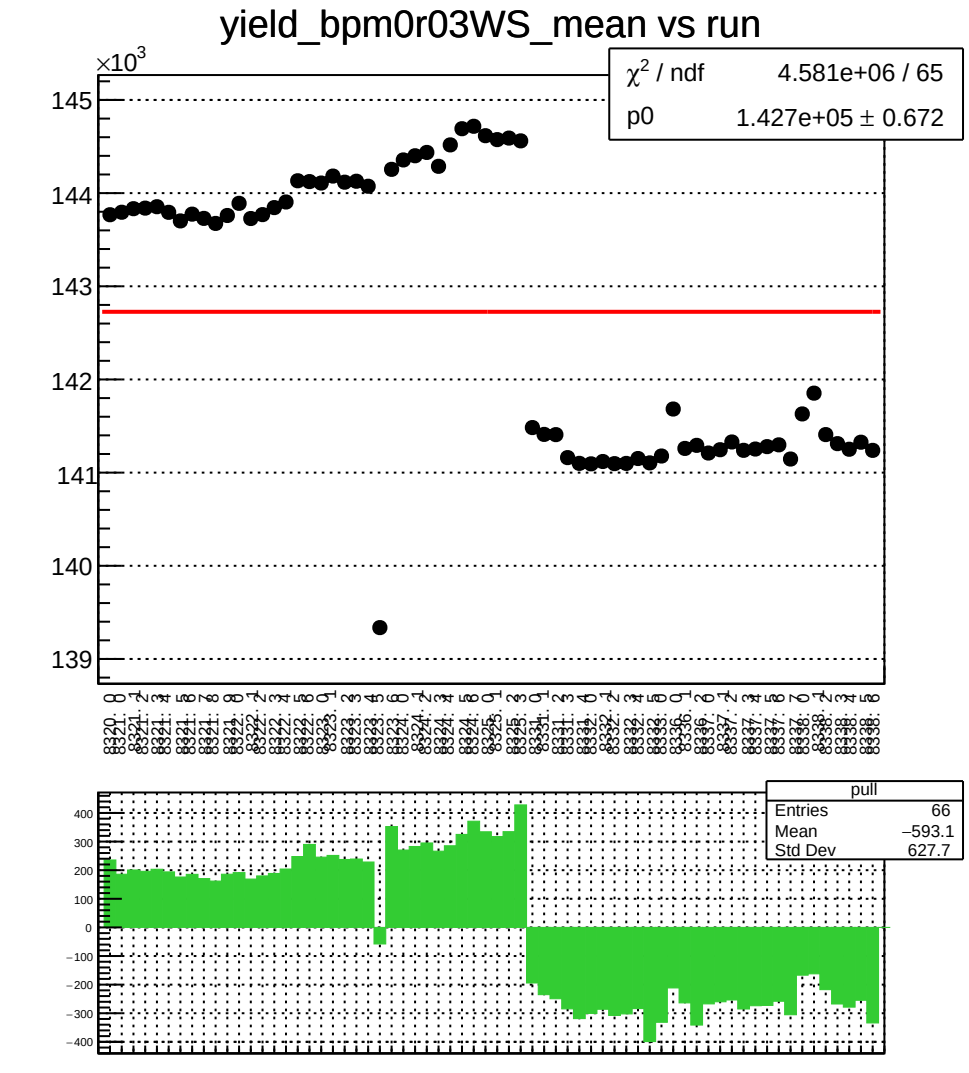

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

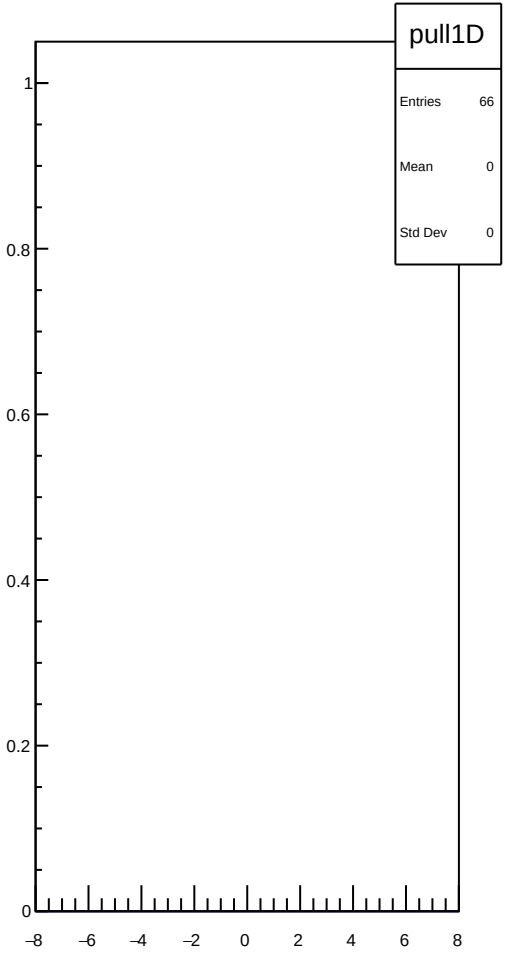

yield_bpm0l09WS_rms vs run
χ² / ndf 9446 / 65
p0 337.8 ± 0.2983
500
450
400
350
300

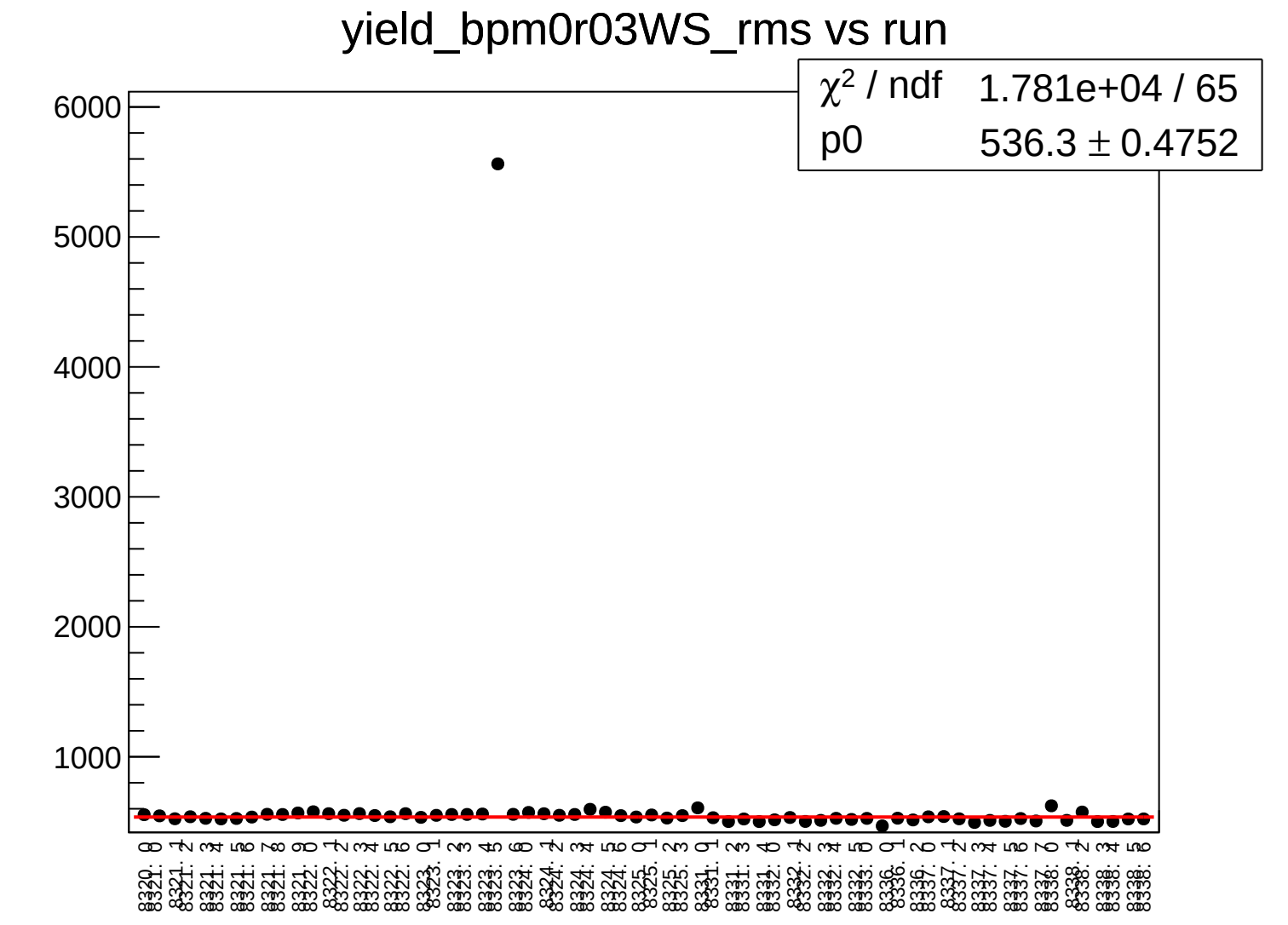

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 2.625e+06 / 65
p0 1.425e+05 ± 0.4124
143.5
143
142.5
142
141.5
pull
Entries 66
Mean −3.61e+04
Std Dev 3.613e+04
300
200
100
0
−100
−200
−300
−400

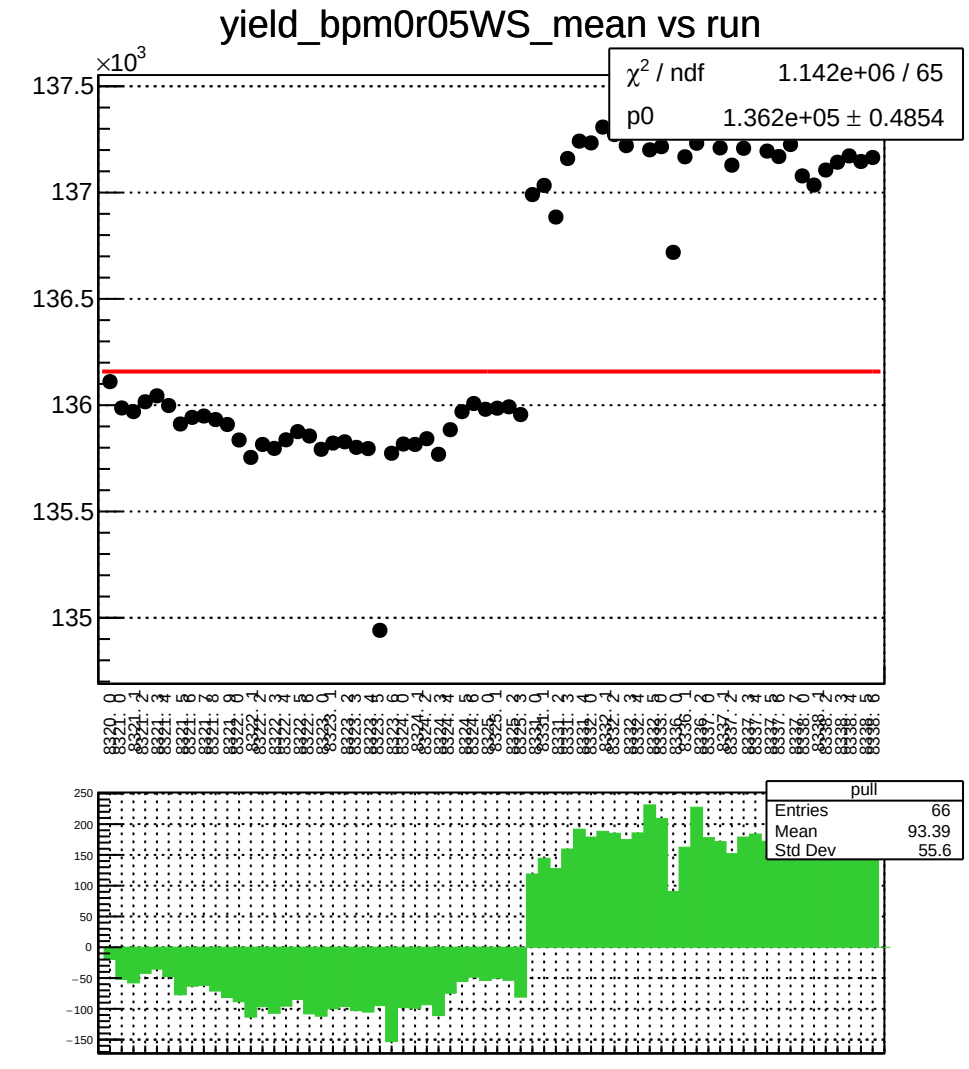

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

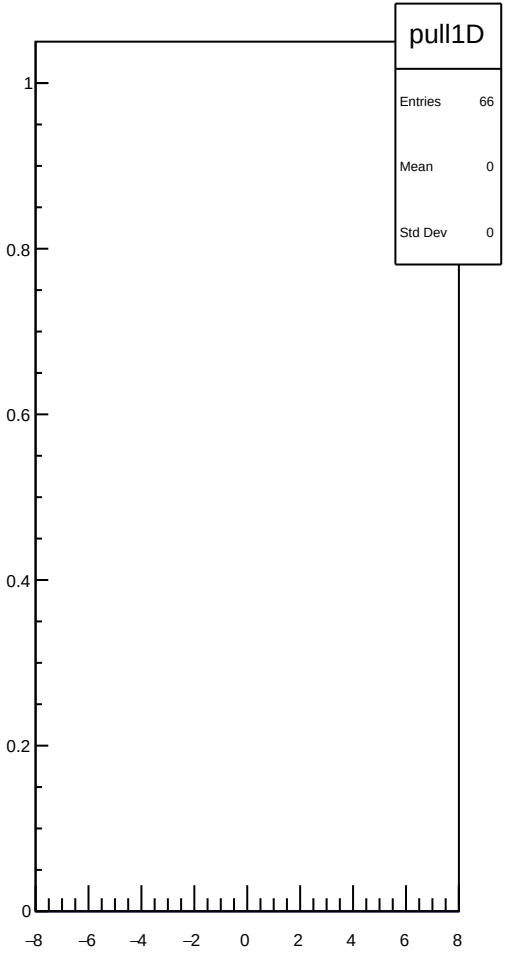

yield_bpm0l10WS_rms vs run
χ² / ndf 7239 / 65
p0 330.5 ± 0.2916
500
450
400
350
300

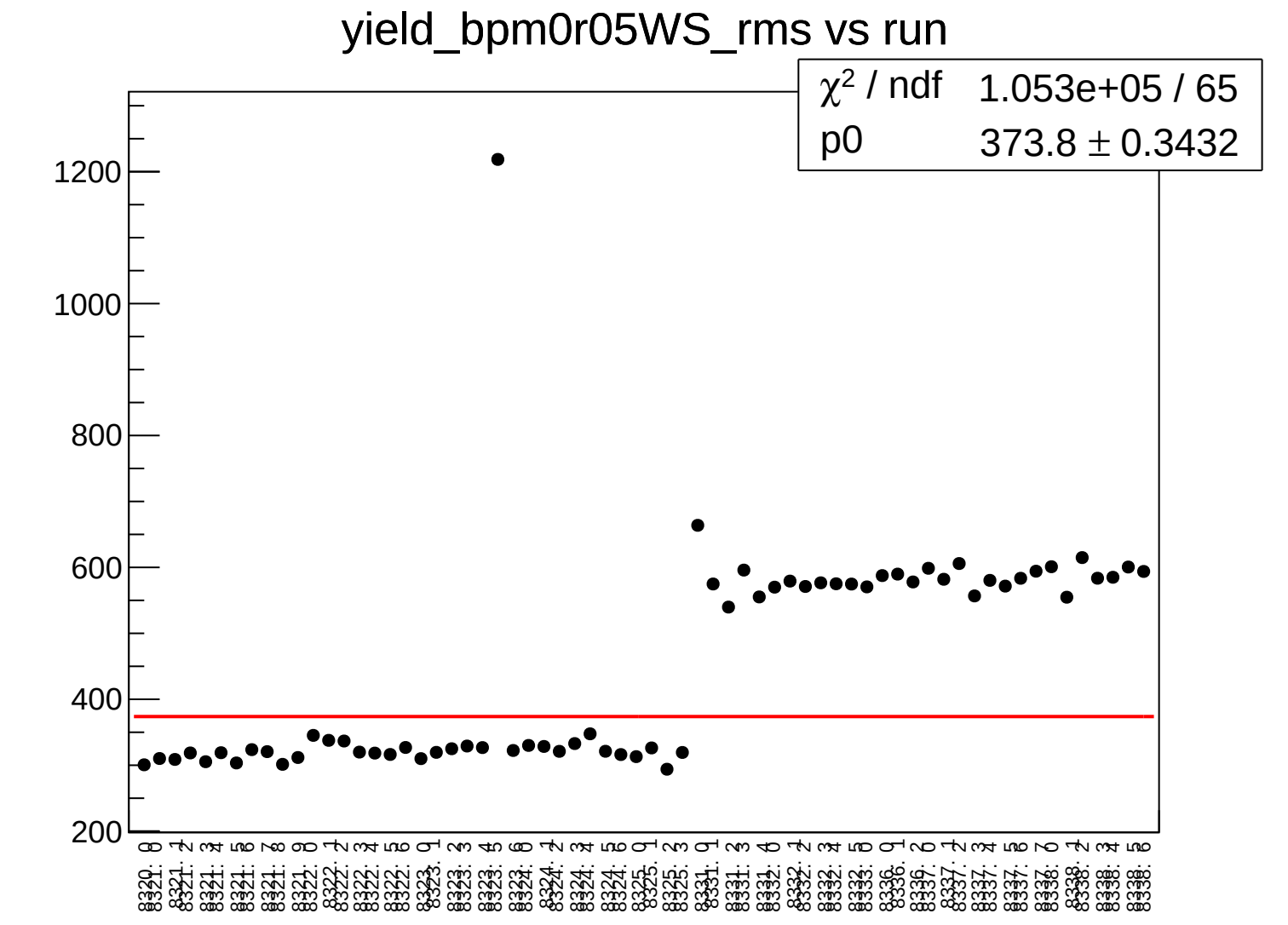

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 4.581e+06 / 65
p0 1.427e+05 ± 0.672
145
144
143
142
141
140
139
pull
Entries 66
Mean −593.1
Std Dev 627.7
400
300
200
100
0
−100
−200
−300
−400

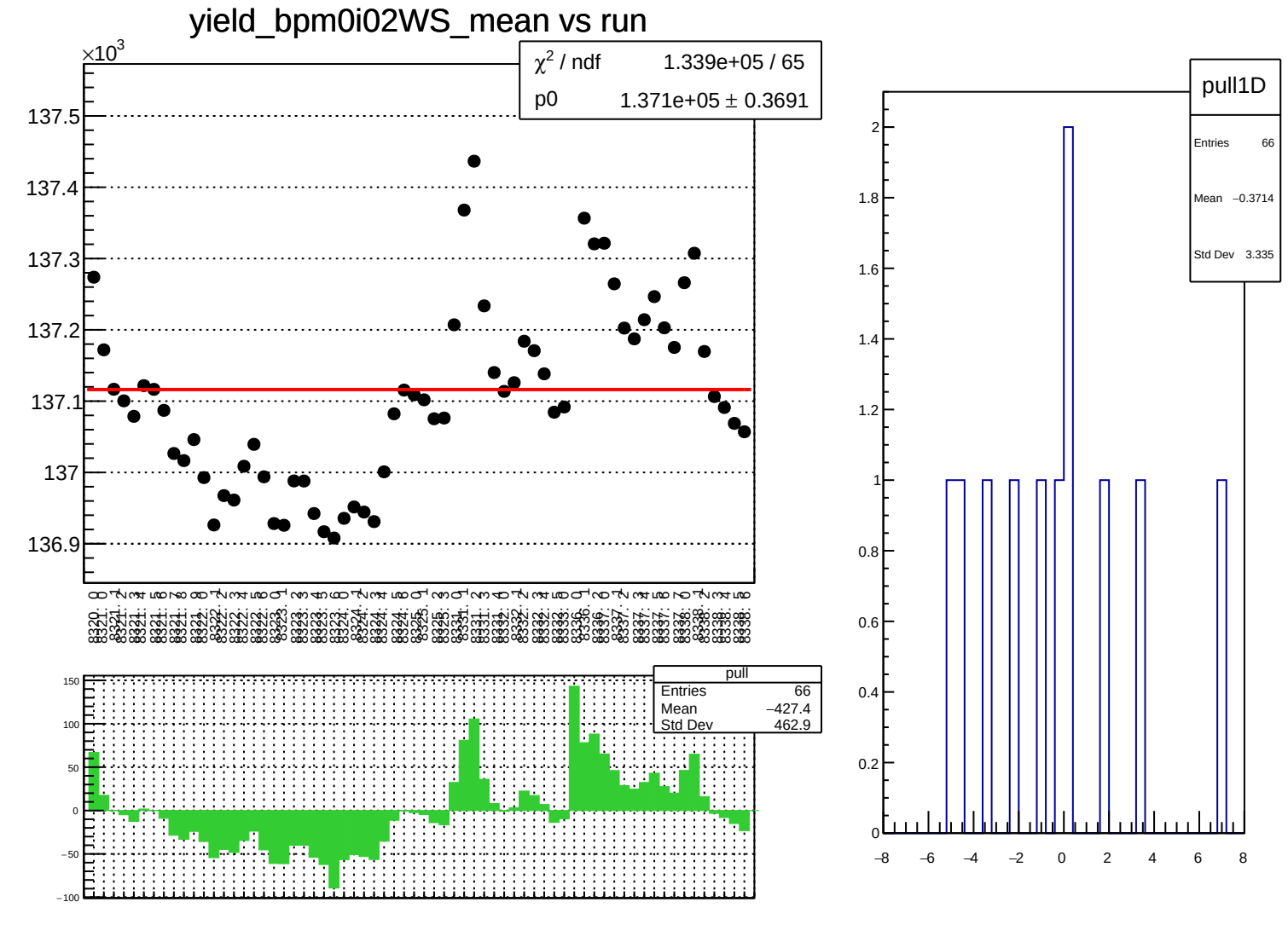

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

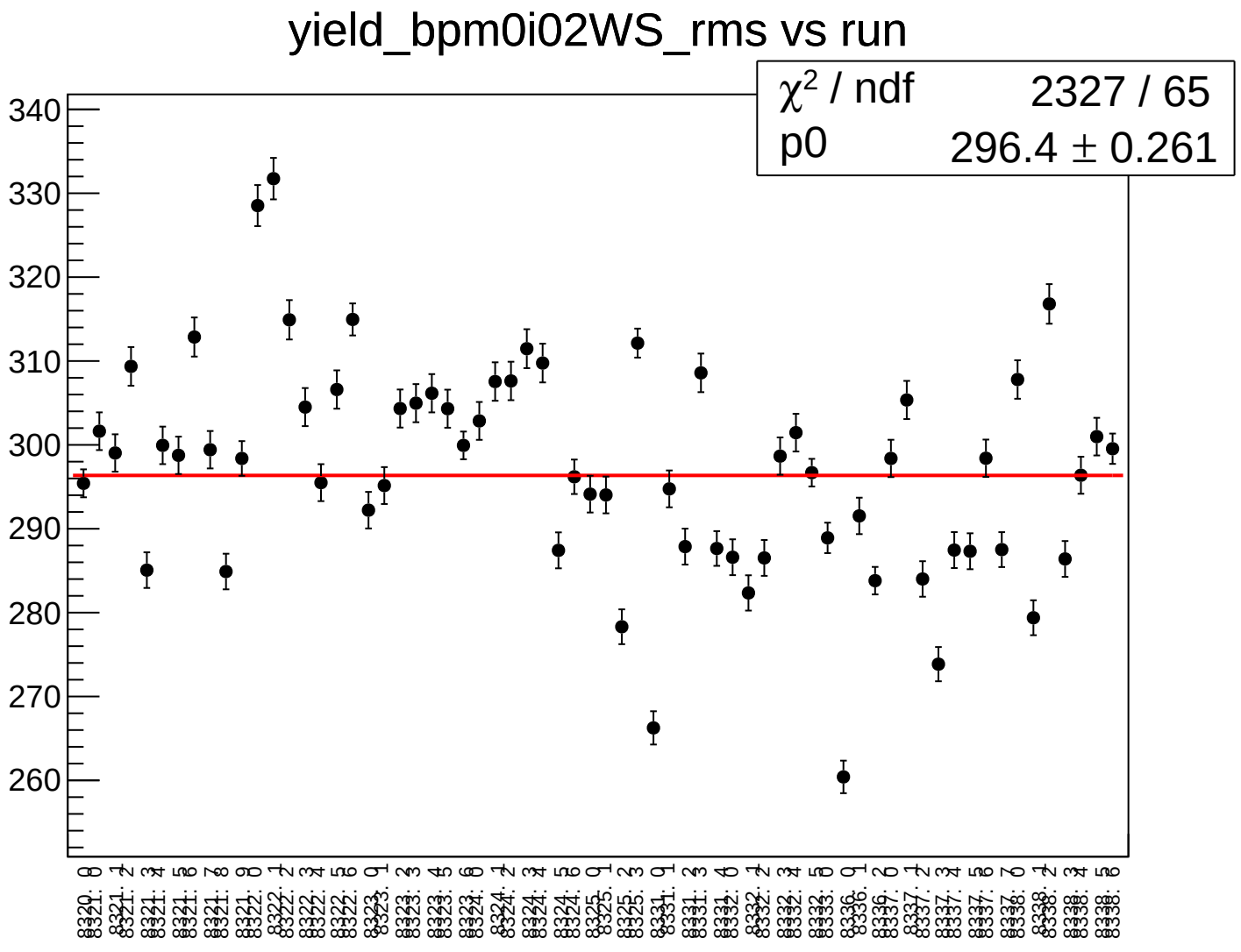

yield_bpm0r03WS_rms vs run
χ² / ndf 1.781e+04 / 65
p0 536.3 ± 0.4752
6000
5000
4000
3000
2000
1000

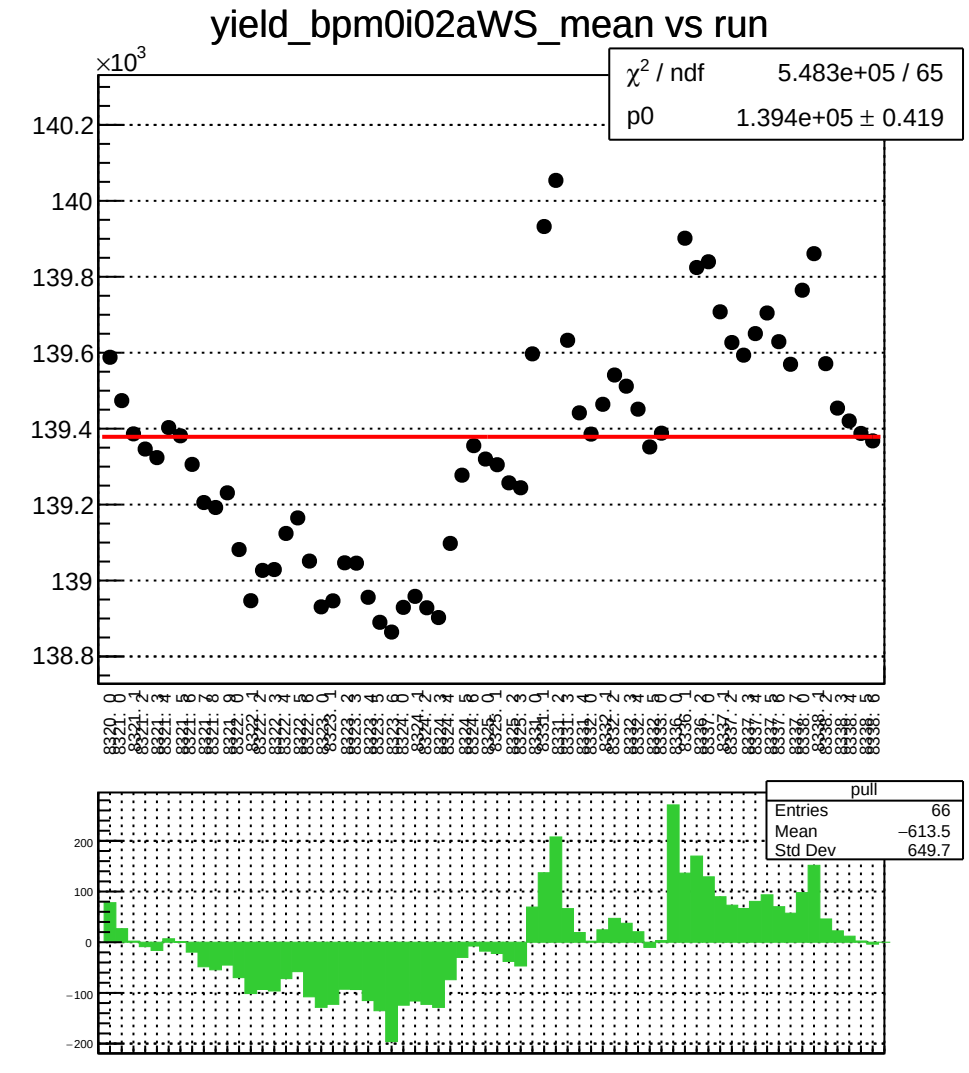

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.142e+06 / 65
p0 1.362e+05 ± 0.4854
137.5
137
136.5
136
135.5
135
pull
Entries 66
Mean 93.39
Std Dev 55.6
250
200
150
100
50
0
−50
−100
−150

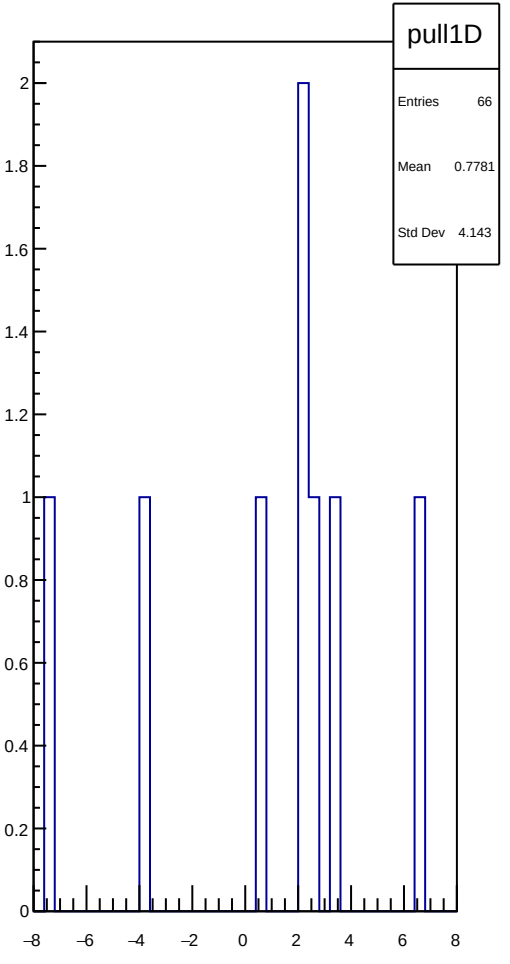

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

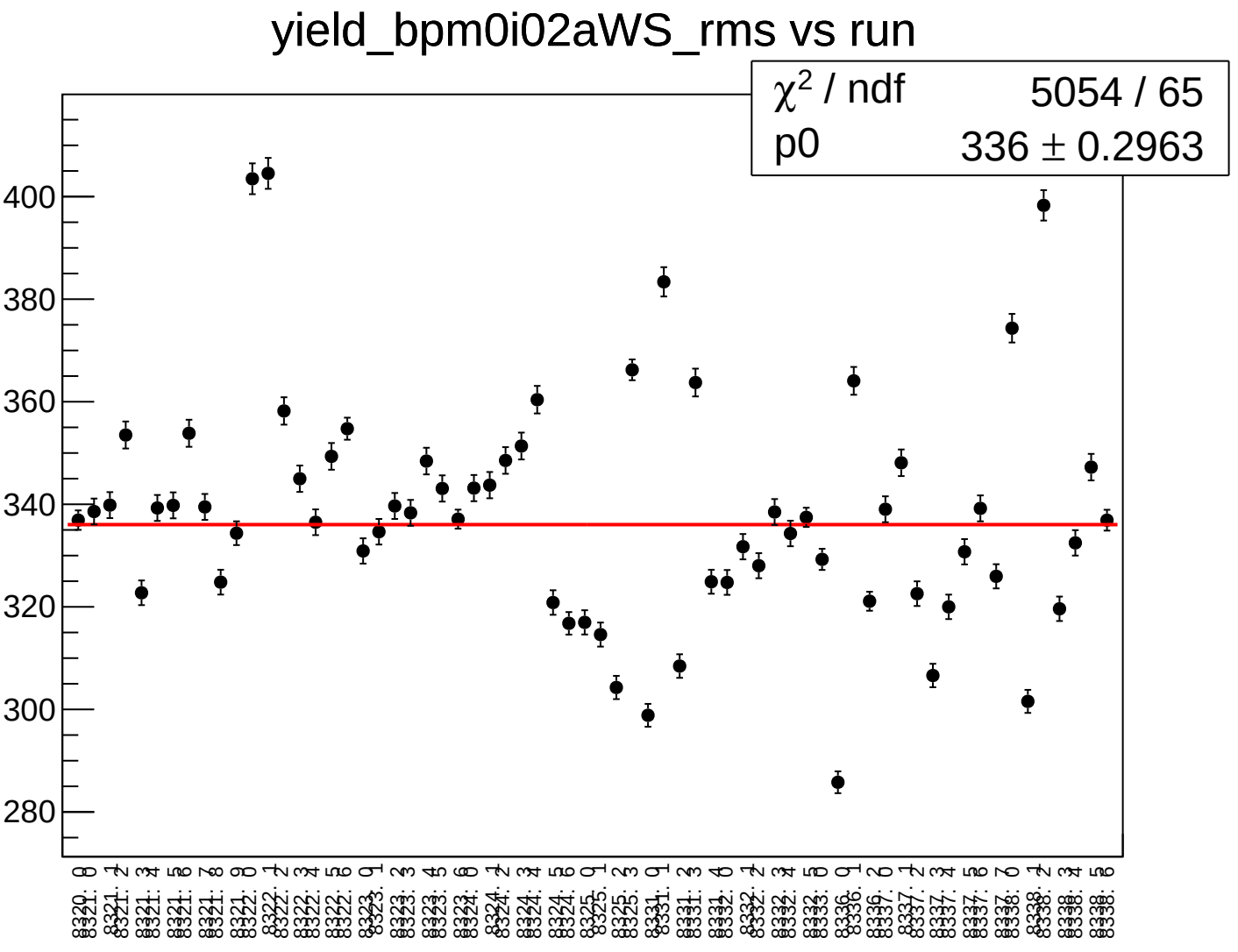

yield_bpm0r05WS_rms vs run
χ² / ndf 1.053e+05 / 65
p0 373.8 ± 0.3432
1200
1000
800
600
400
200

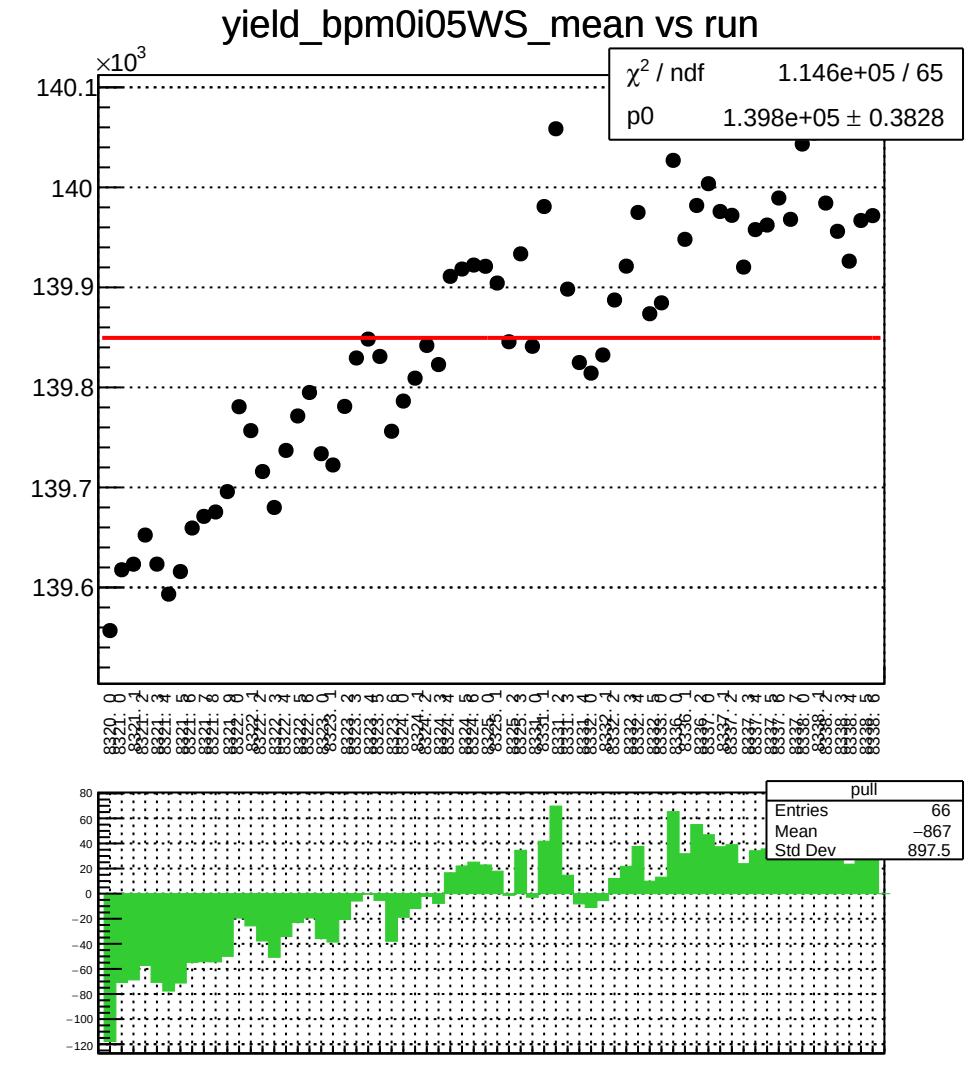

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.339e+05 / 65
p0 1.371e+05 ± 0.3691
137.5
137.4
137.3
137.2
137.1
137
136.9
pull
Entries 66
Mean −427.4
Std Dev 462.9
150
100
50
0
−50
−100
pull1D
Entries 66
Mean −0.3714
Std Dev 3.335
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

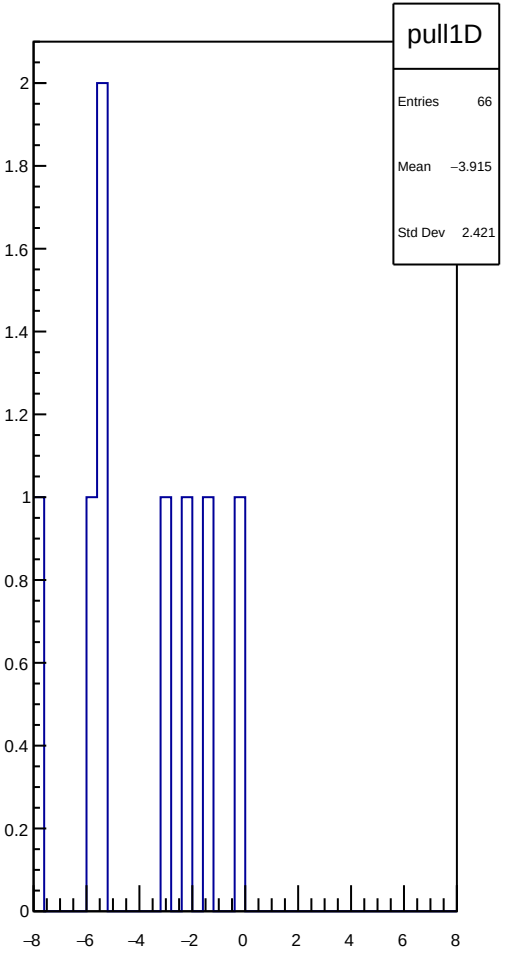

yield_bpm0i02WS_rms vs run
χ² / ndf 2327 / 65
p0 296.4 ± 0.261
340
330
320
310
300
290
280
270
260

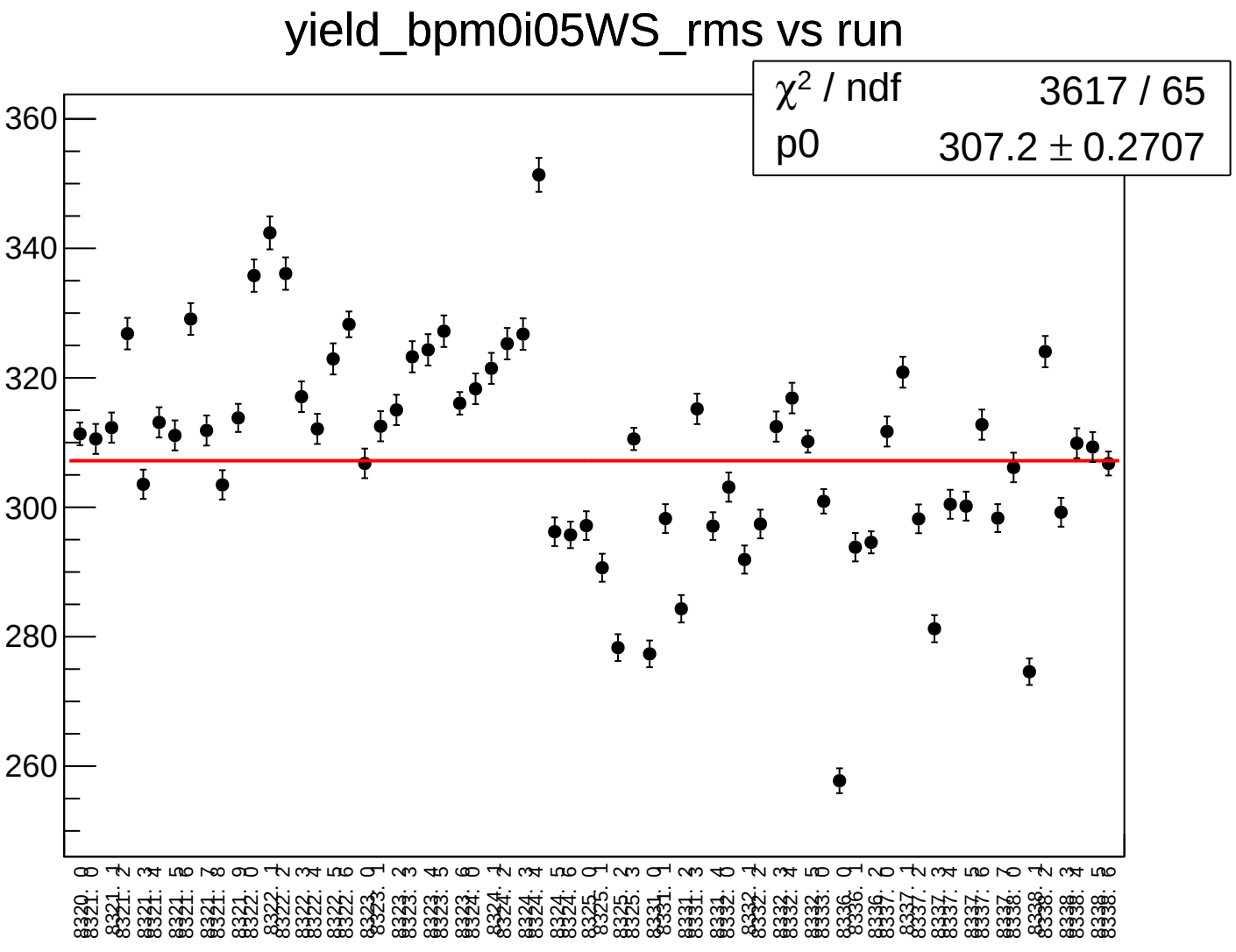

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 5.483e+05 / 65
p0 1.394e+05 ± 0.419
140.2
140
139.8
139.6
139.4
139.2
139
138.8
pull
Entries 66
Mean −613.5
Std Dev 649.7
200
100
0
−100
−200

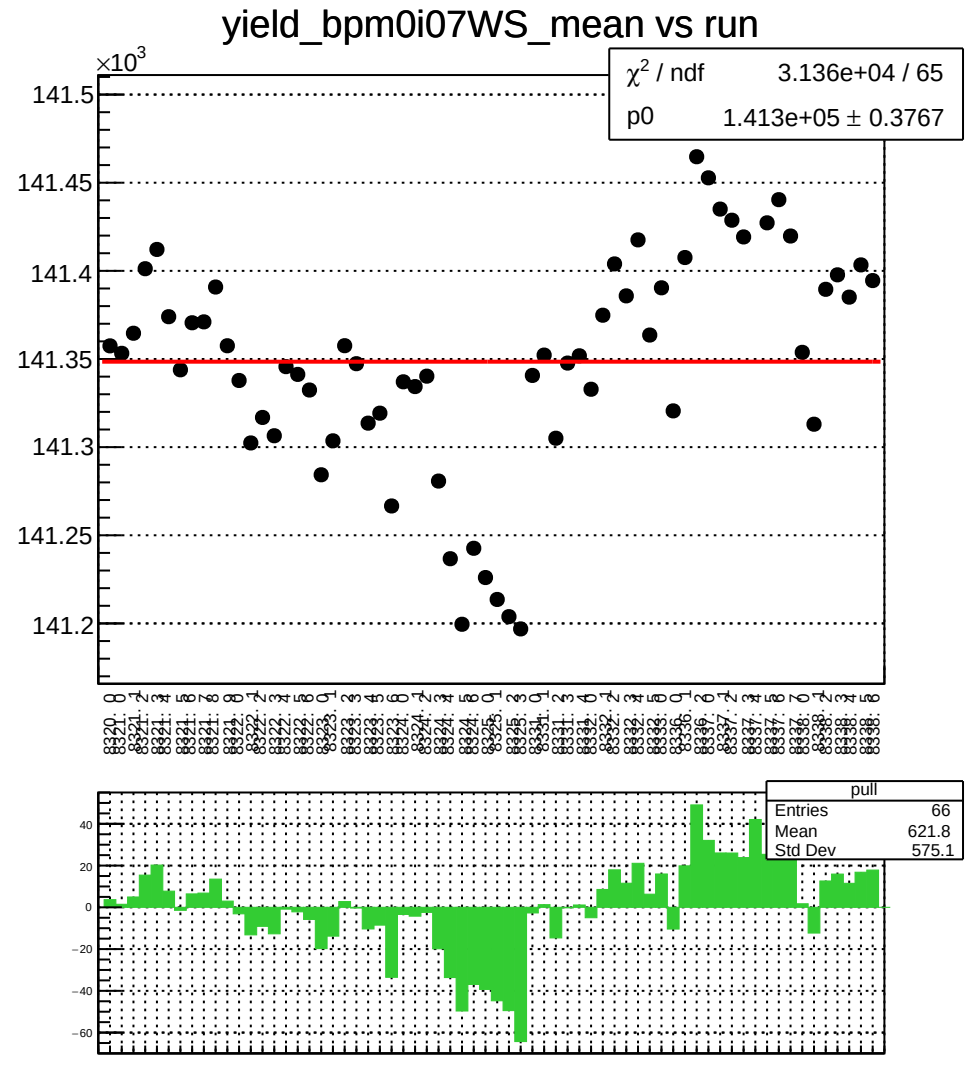

pull1D
Entries 66
Mean 0.7781
Std Dev 4.143
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

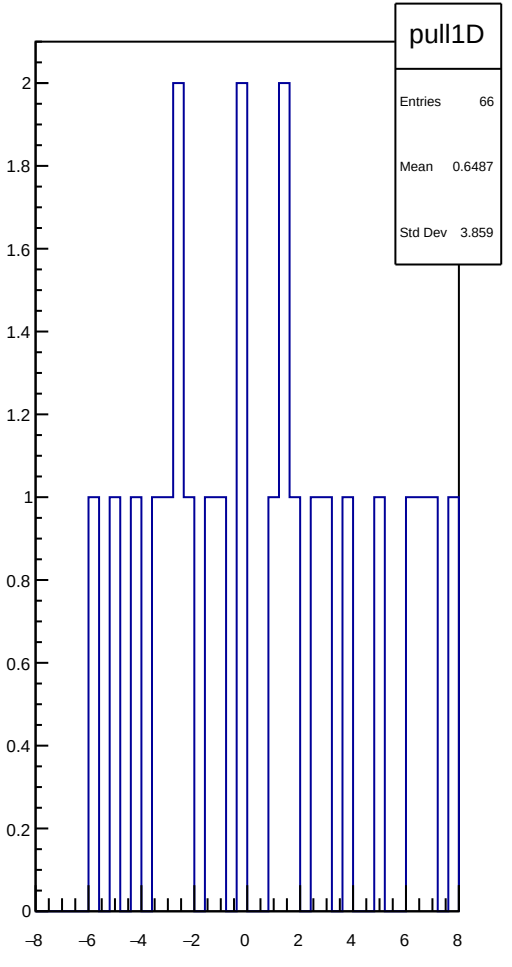

yield_bpm0i02aWS_rms vs run
χ² / ndf 5054 / 65
p0 336 ± 0.2963
400
380
360
340
320
300
280

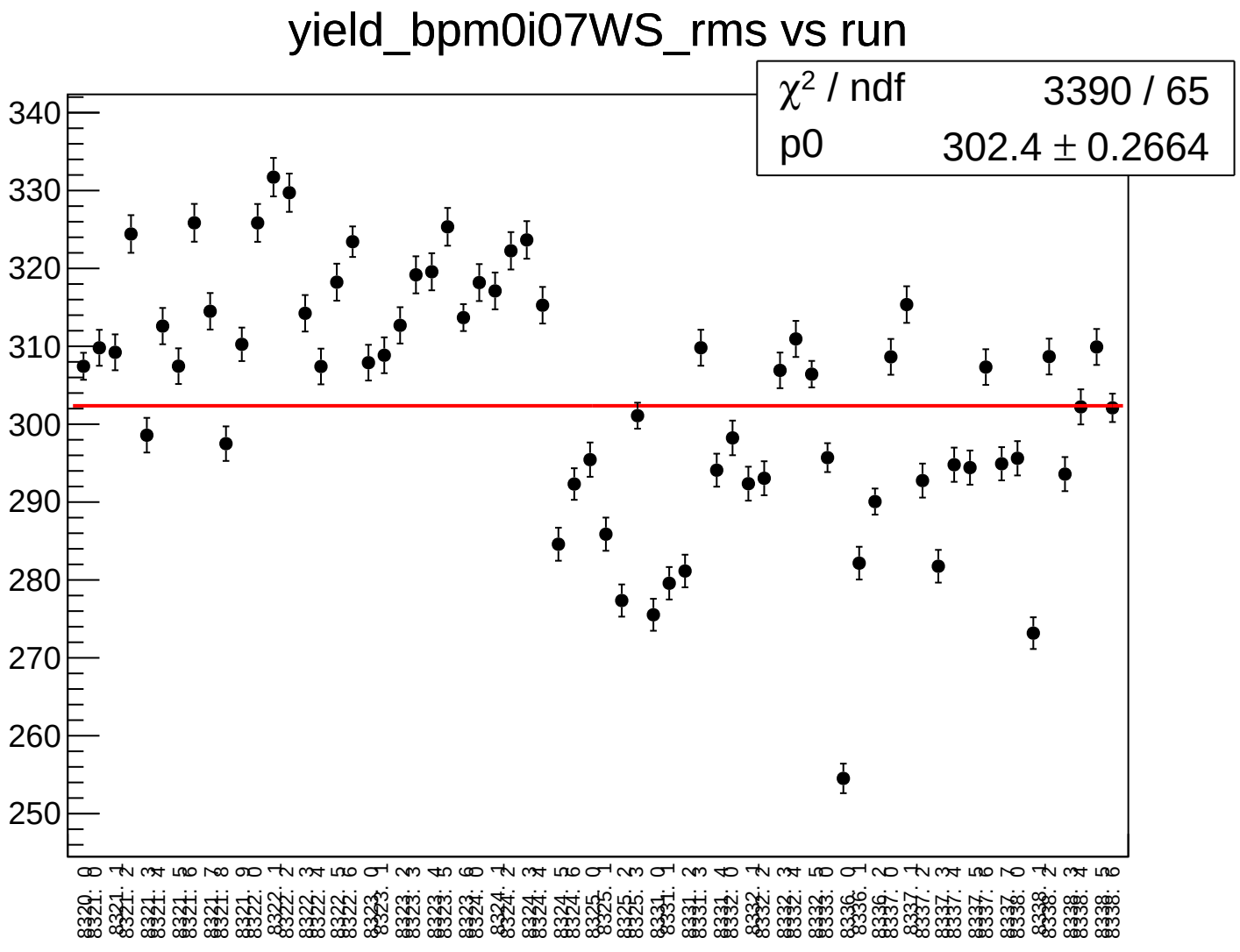

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 1.146e+05 / 65
p0 1.398e+05 ± 0.3828
140.1
140
139.9
139.8
139.7
139.6
pull
Entries 66
Mean −867
Std Dev 897.5

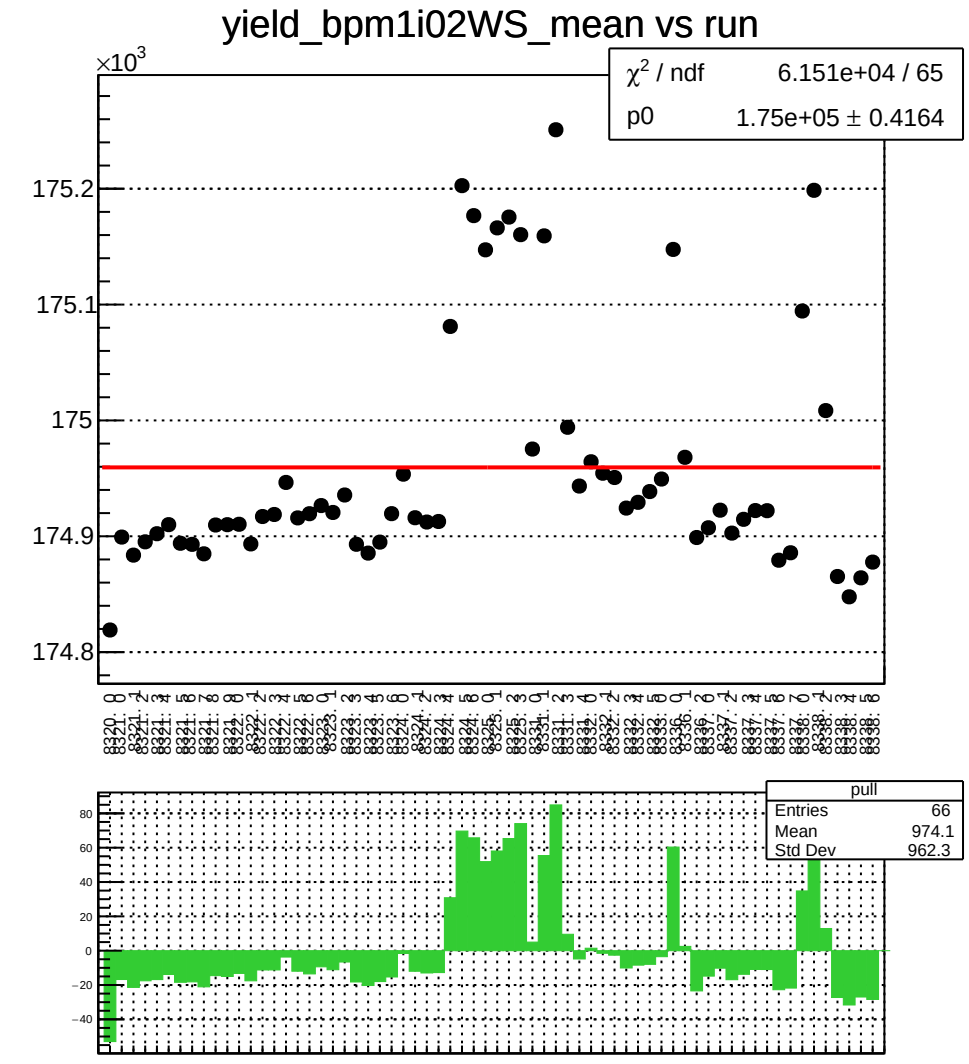

pull1D
Entries 66
Mean −3.915
Std Dev 2.421

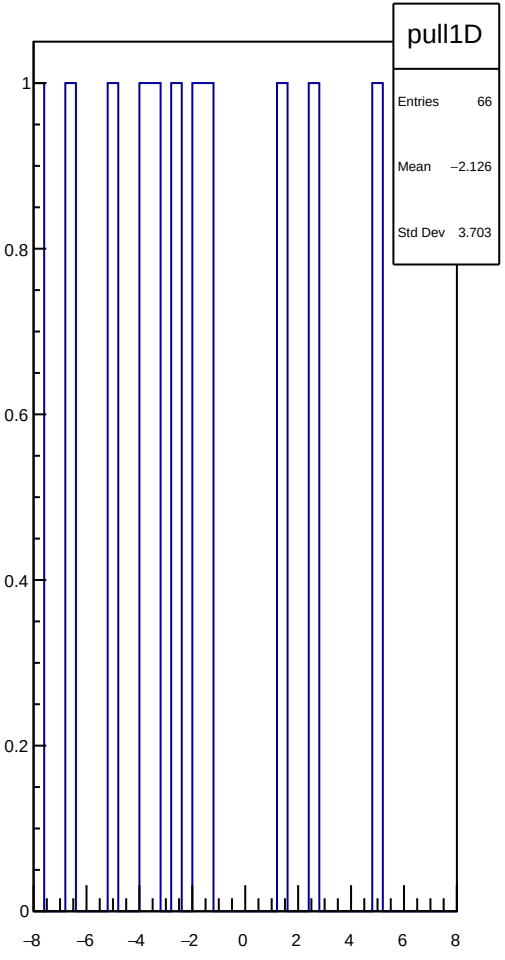

yield_bpm0i05WS_rms vs run
χ² / ndf 3617 / 65
p0 307.2 ± 0.2707
360
340
320
300
280
260

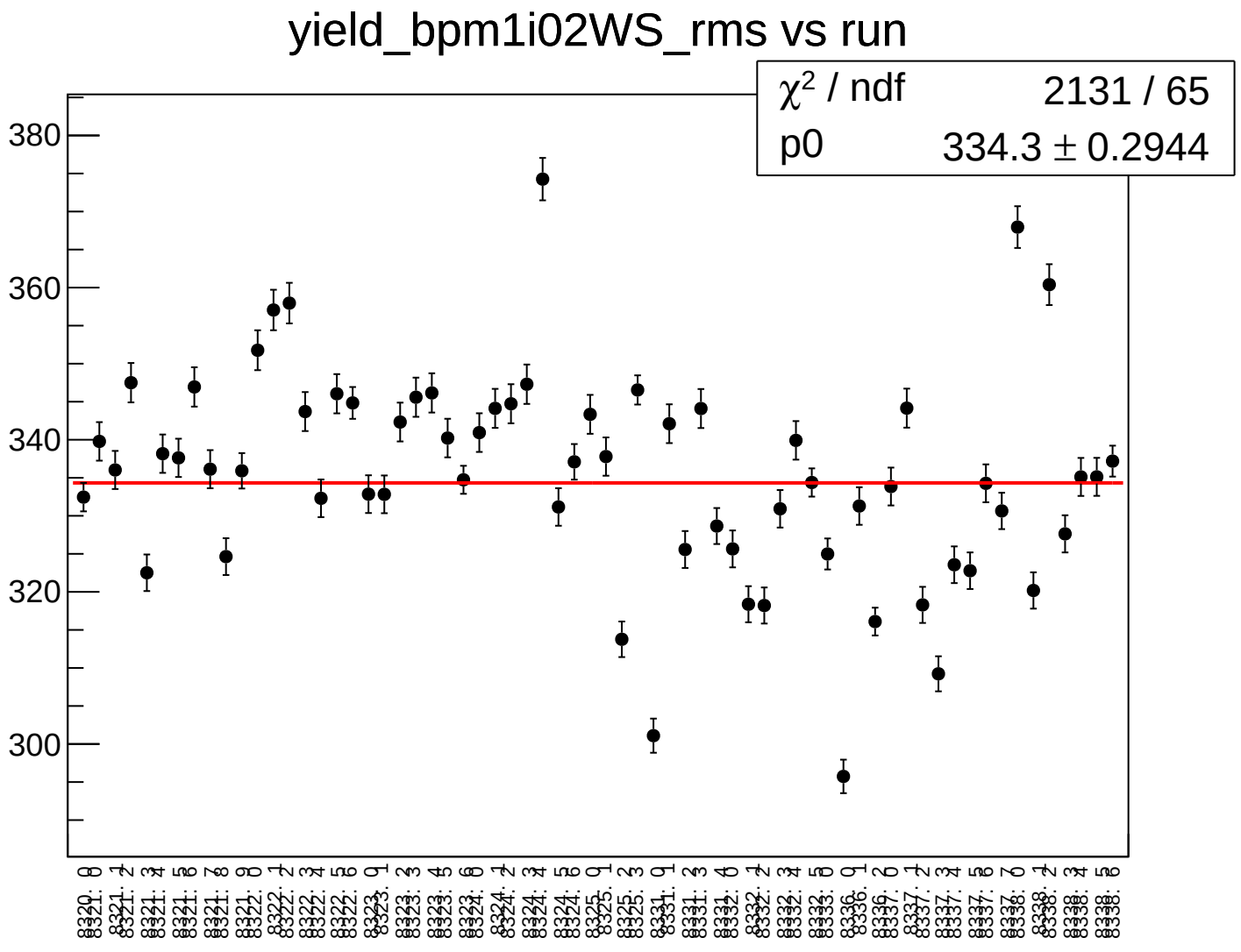

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.136e+04 / 65
p0 1.413e+05 ± 0.3767
141.5
141.45
141.4
141.35
141.3
141.25
141.2
pull
Entries 66
Mean 621.8
Std Dev 575.1
40
20
0
−20
−40
−60

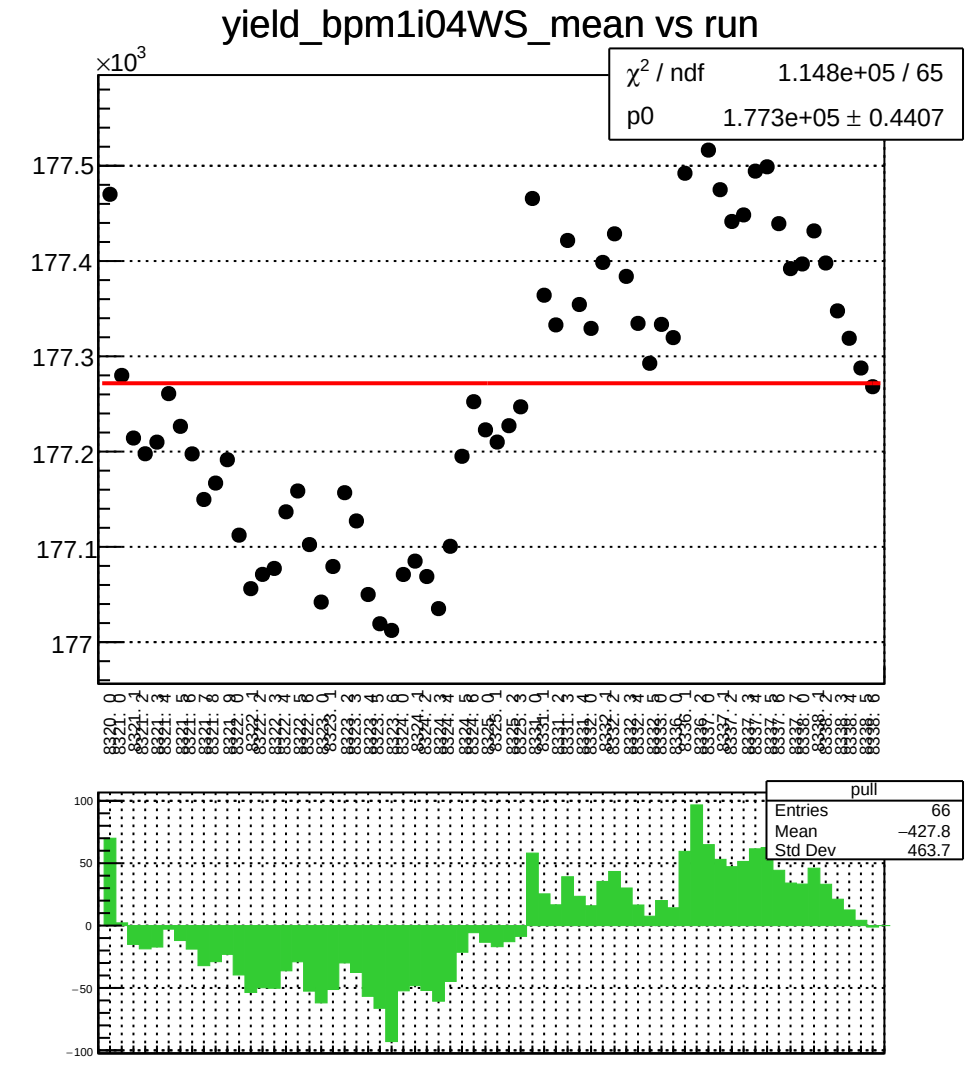

pull1D
Entries 66
Mean 0.6487
Std Dev 3.859
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

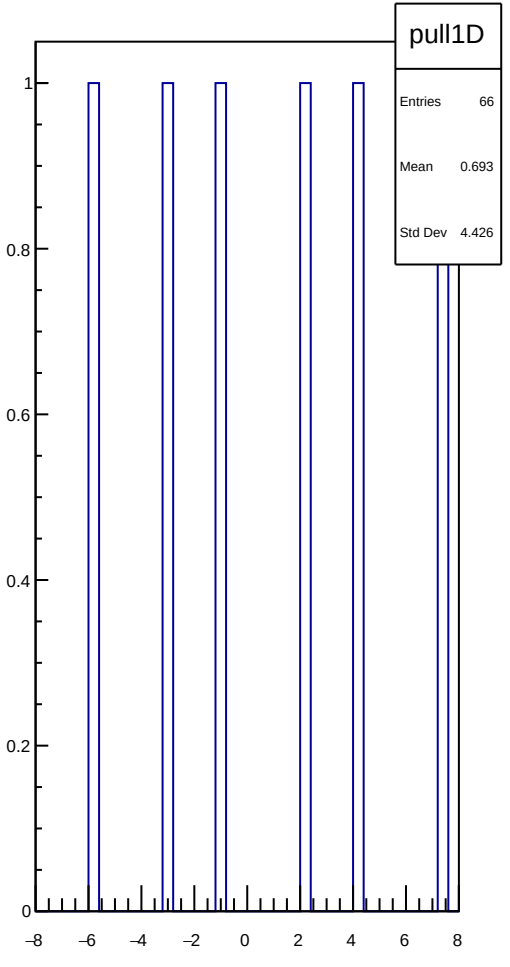

yield_bpm0i07WS_rms vs run
χ² / ndf 3390 / 65
p0 302.4 ± 0.2664
340
330
320
310
300
290
280
270
260
250

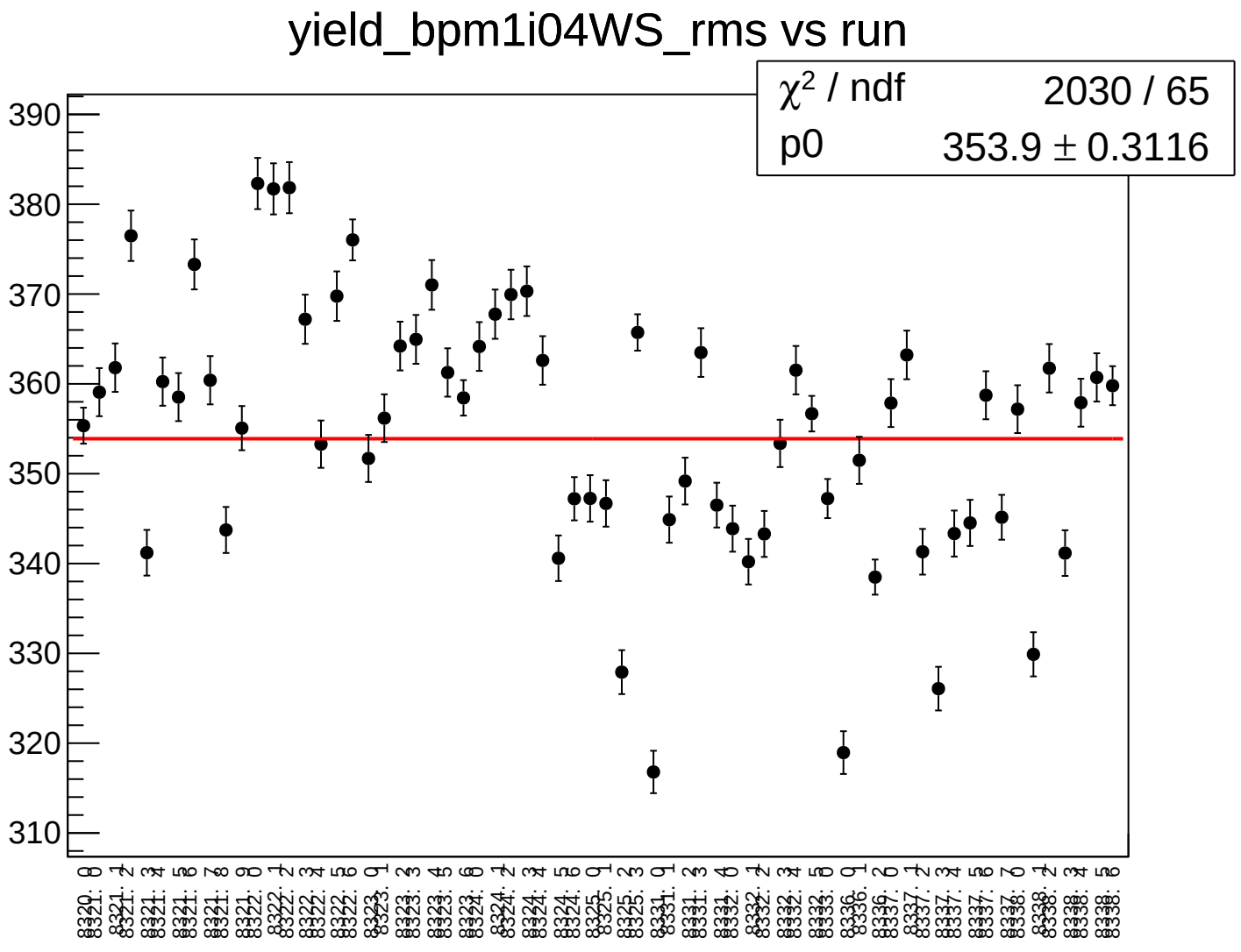

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 6.151e+04 / 65
p0 1.75e+05 ± 0.4164
175.2
175.1
175
174.9
174.8
pull
Entries 66
Mean 974.1
Std Dev 962.3
80
60
40
20
0
−20
−40

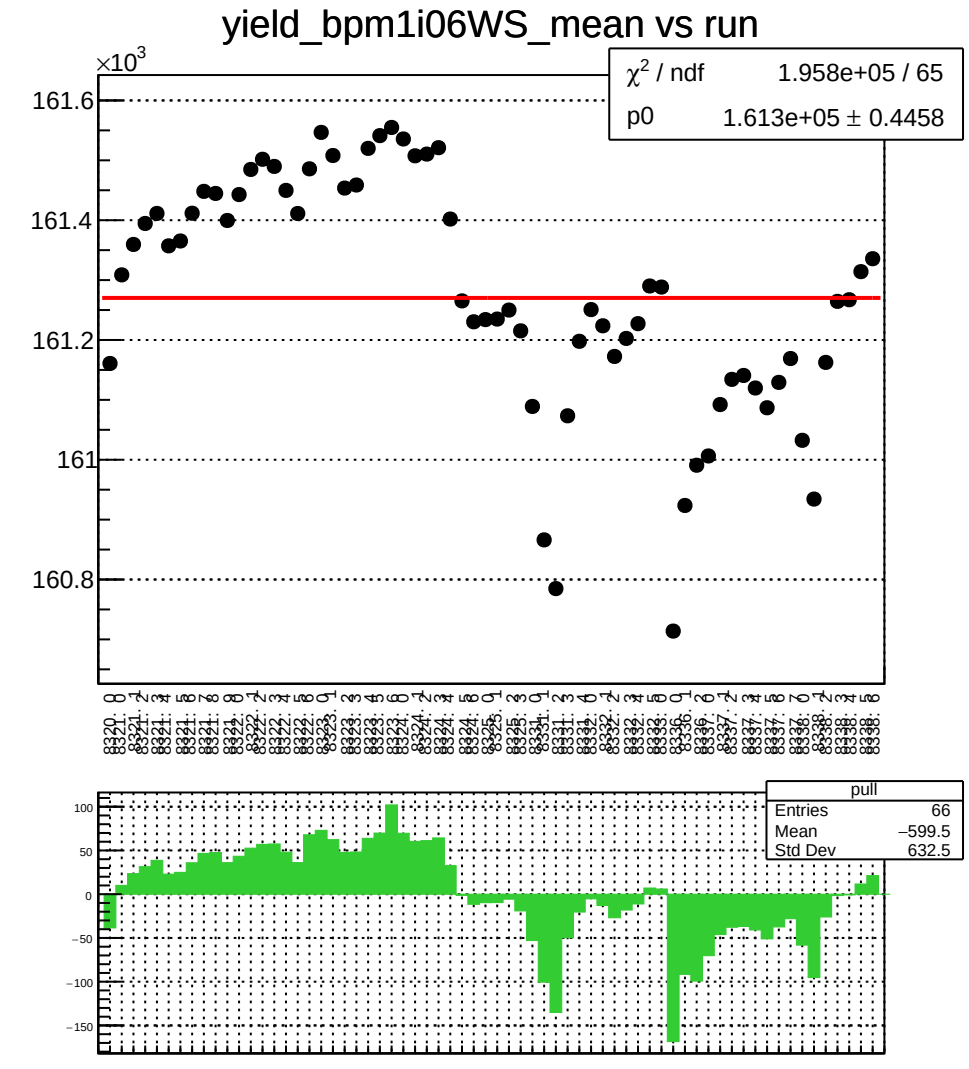

pull1D
Entries 66
Mean −2.126
Std Dev 3.703
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

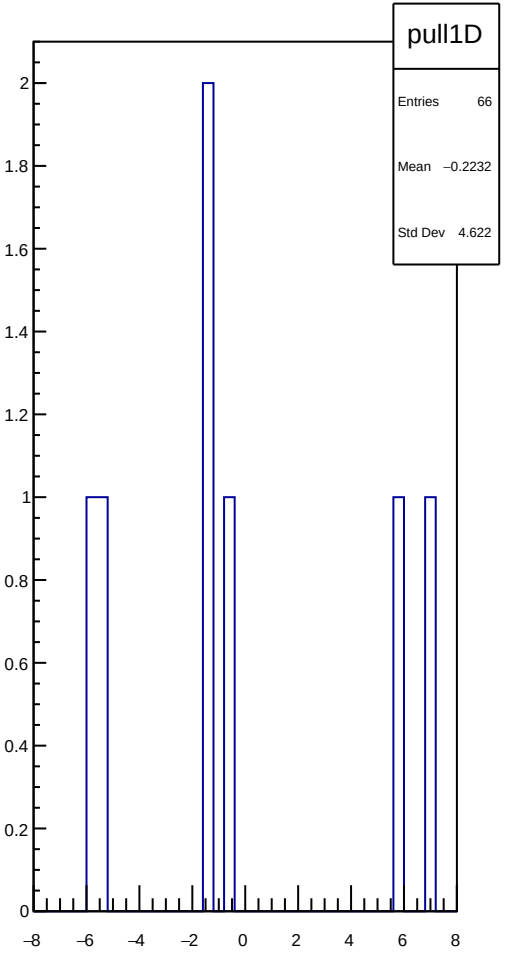

yield_bpm1i02WS_rms vs run
χ² / ndf 2131 / 65
p0 334.3 ± 0.2944
380
360
340
320
300

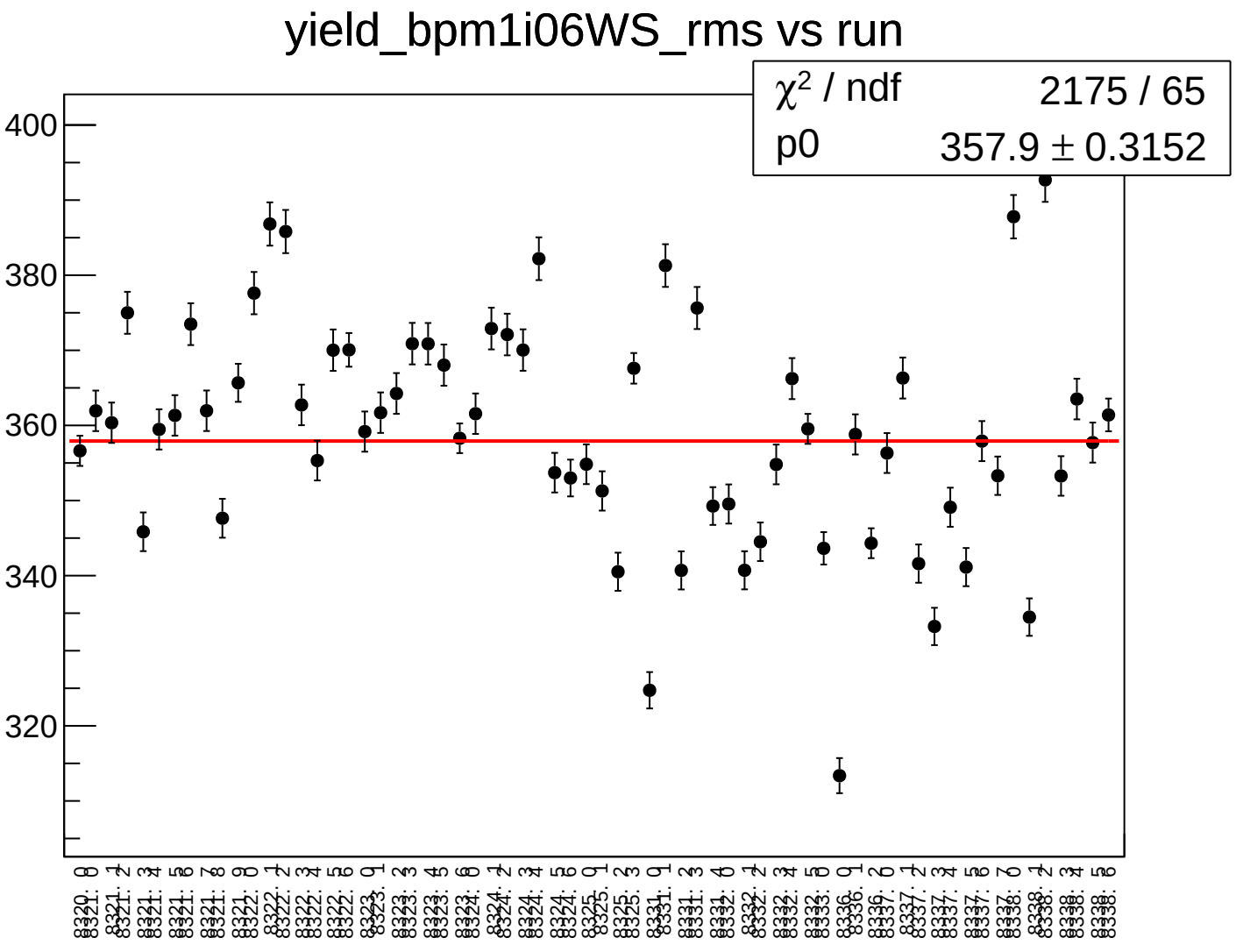

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 1.148e+05 / 65
p0 1.773e+05 ± 0.4407
177.5
177.4
177.3
177.2
177.1
177
pull
Entries 66
Mean −427.8
Std Dev 463.7
100
50
0
−50
−100

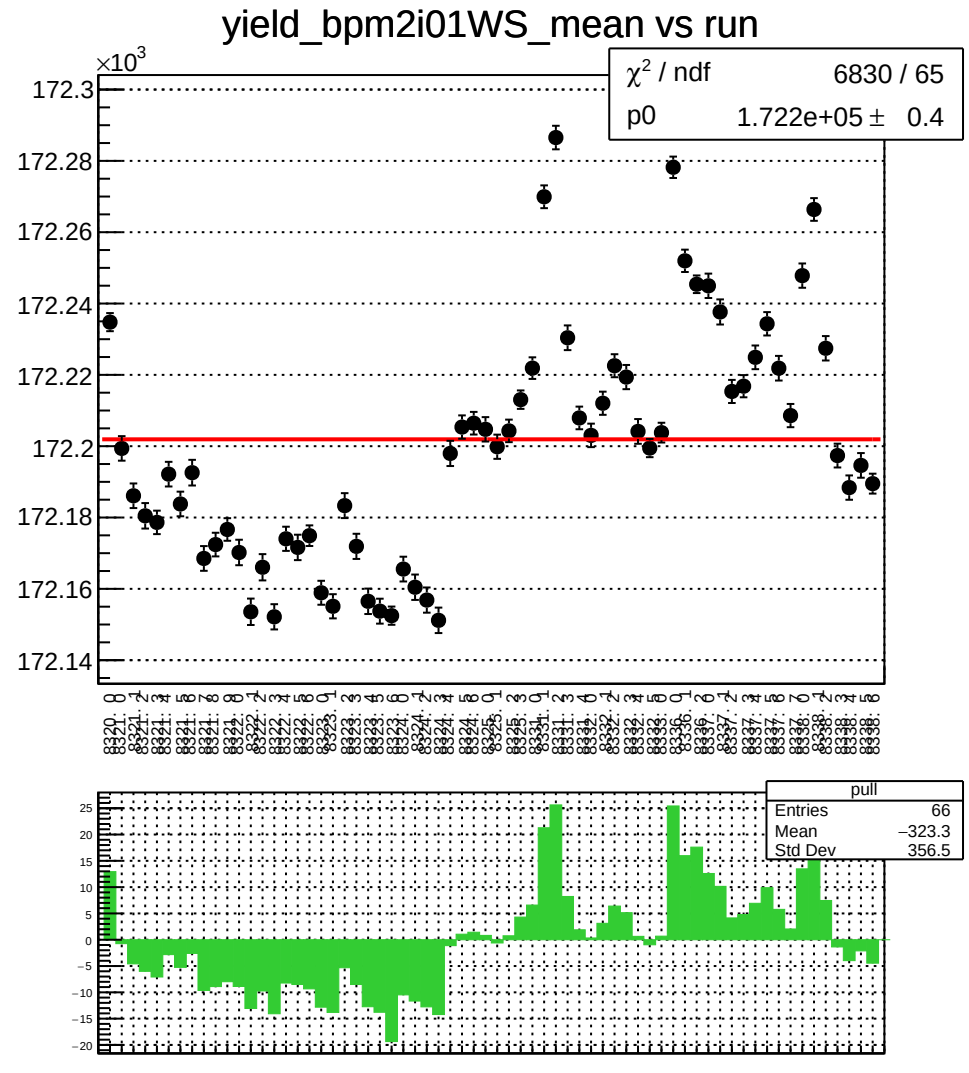

pull1D
Entries 66
Mean 0.693
Std Dev 4.426
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

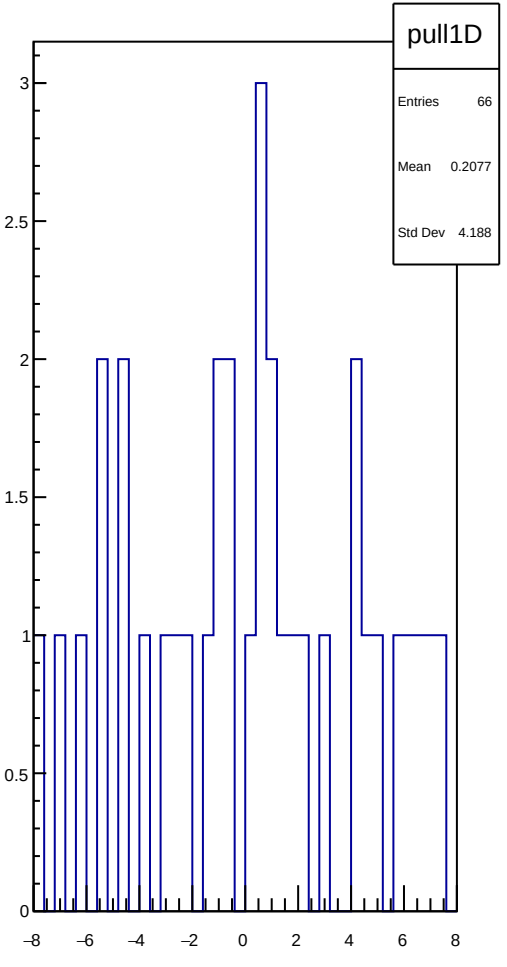

yield_bpm1i04WS_rms vs run
χ² / ndf 2030 / 65
p0 353.9 ± 0.3116
390
380
370
360
350
340
330
320
310

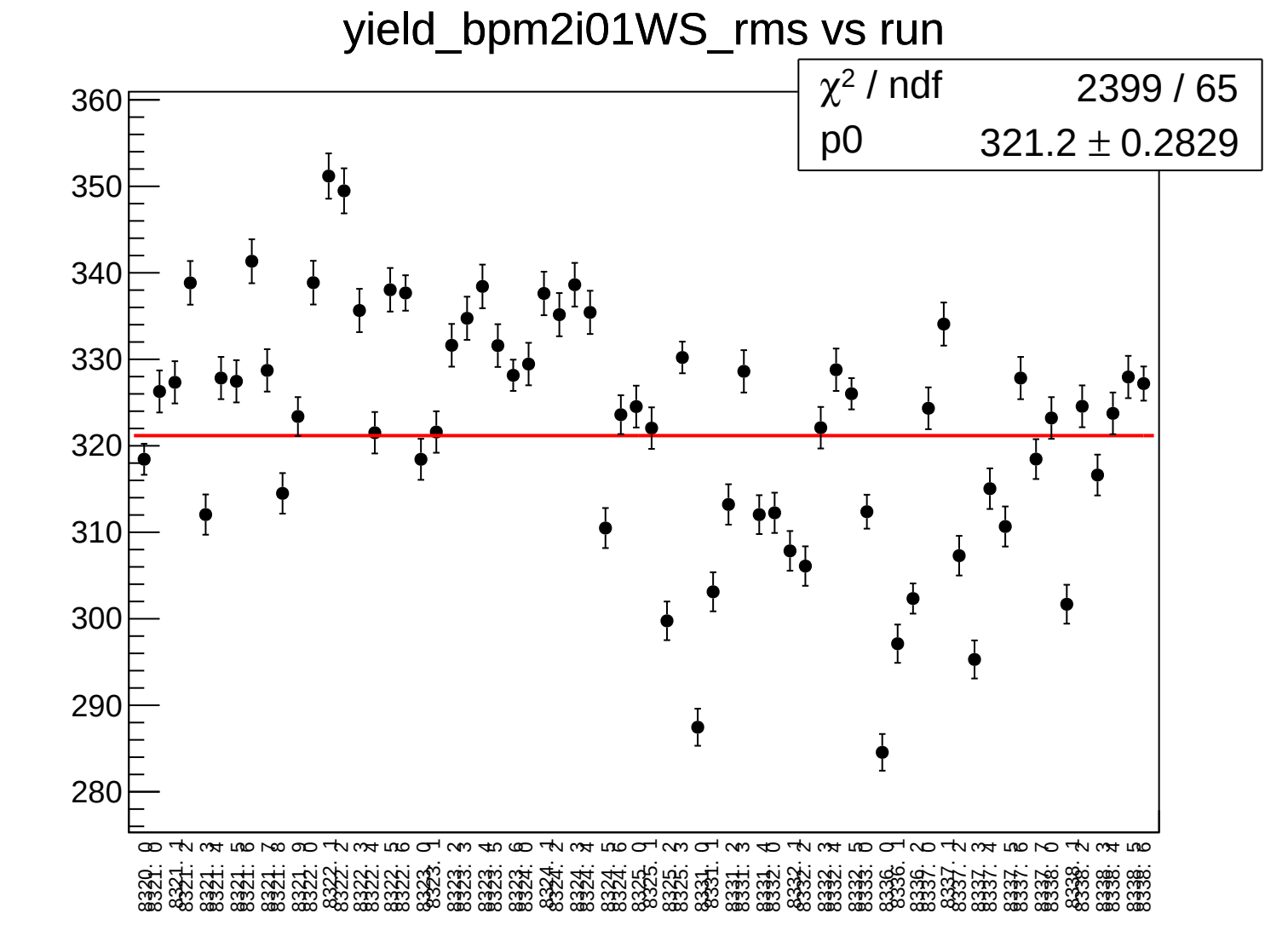

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.958e+05 / 65
p0 1.613e+05 ± 0.4458
161.6
161.4
161.2
161
160.8
pull
Entries 66
Mean −599.5
Std Dev 632.5
100
50
0
−50
−100
−150

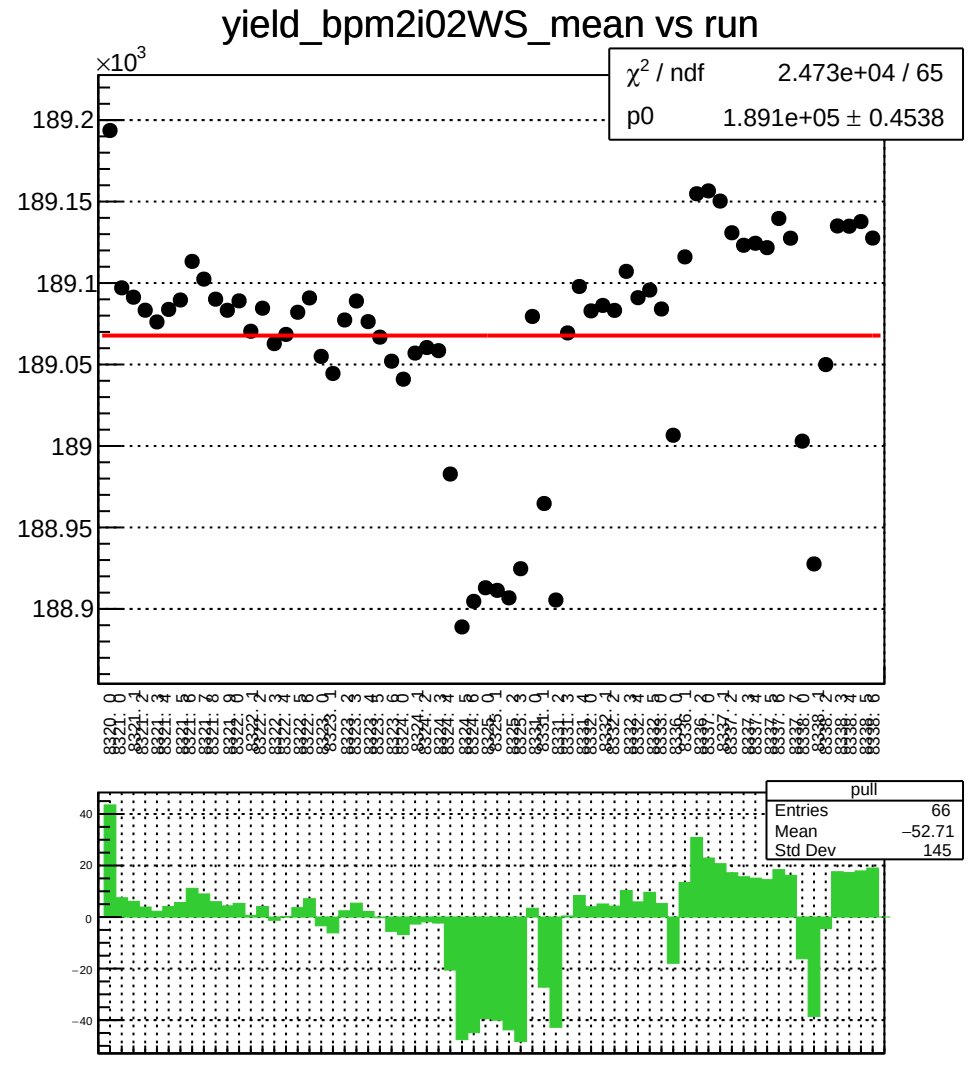

pull1D
Entries 66
Mean −0.2232
Std Dev 4.622
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

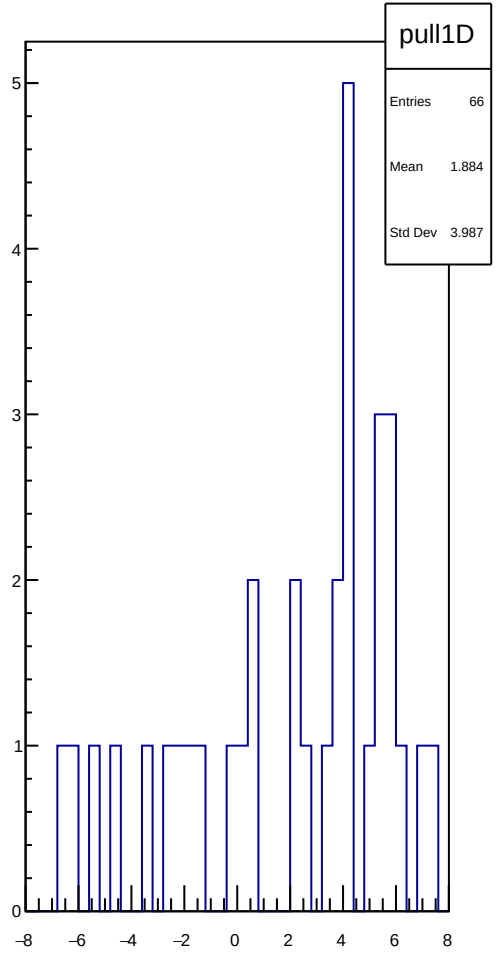

yield_bpm1i06WS_rms vs run
χ² / ndf 2175 / 65
p0 357.9 ± 0.3152
400
380
360
340
320

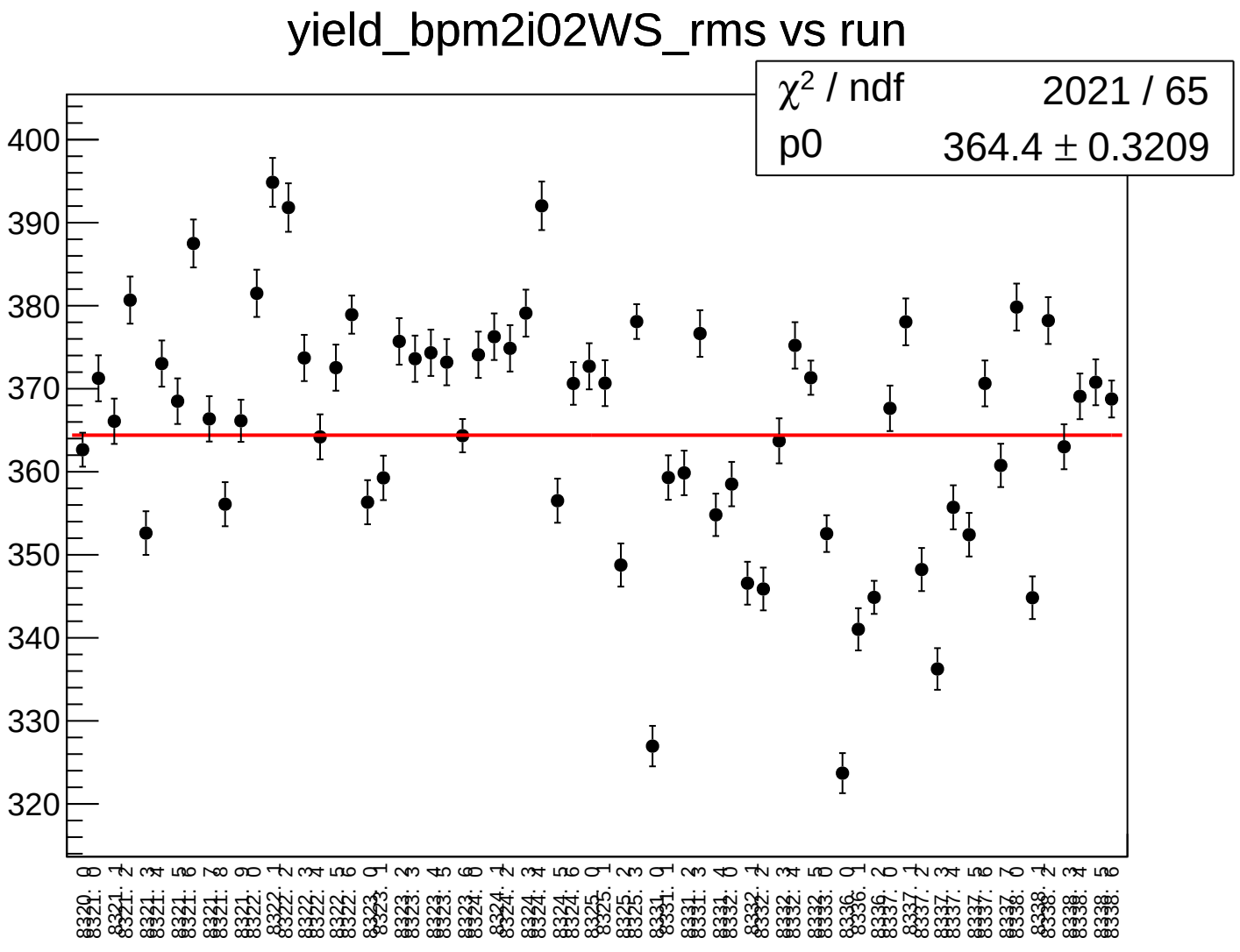

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 6830 / 65
p0 1.722e+05 ± 0.4
172.3
172.28
172.26
172.24
172.22
172.2
172.18
172.16
172.14
pull
Entries 66
Mean −323.3
Std Dev 356.5
25
20
15
10
5
0
−5
−10
−15
−20

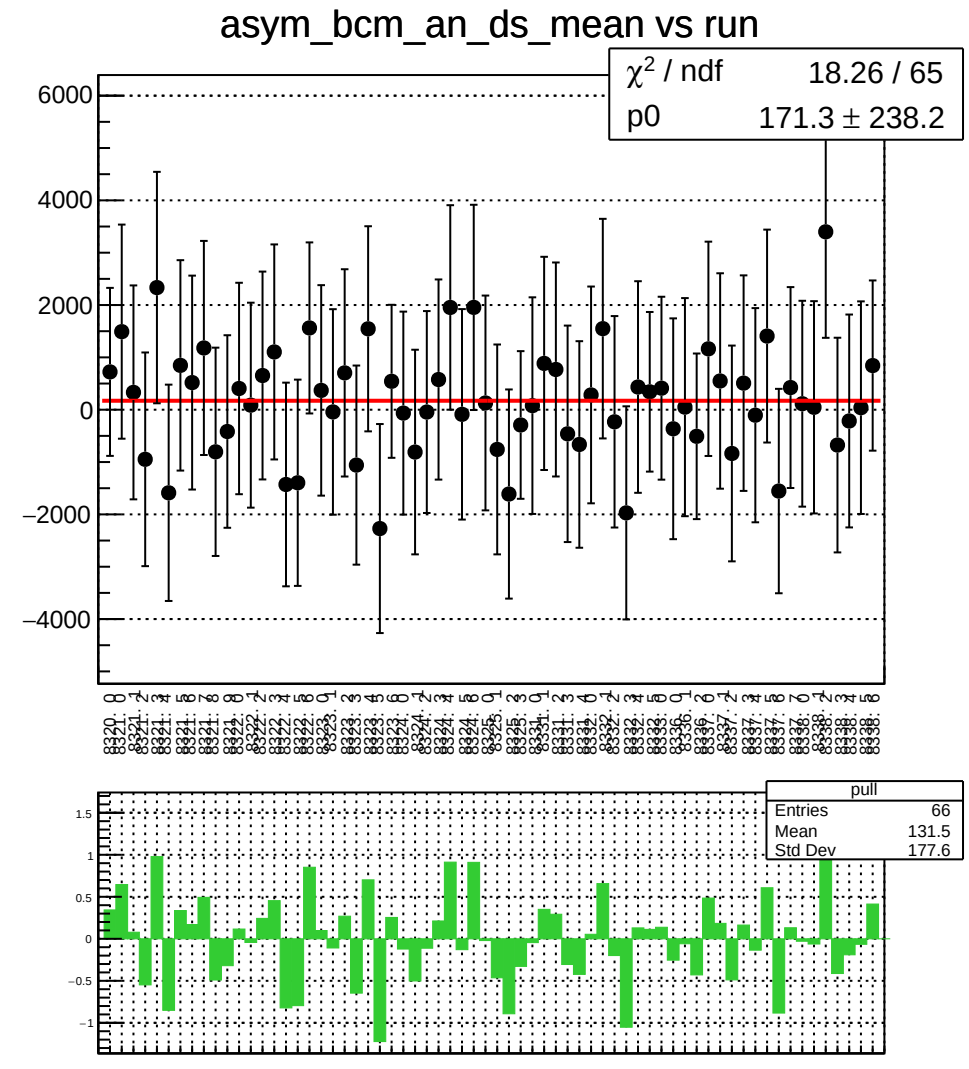

pull1D
Entries 66
Mean 0.2077
Std Dev 4.188
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

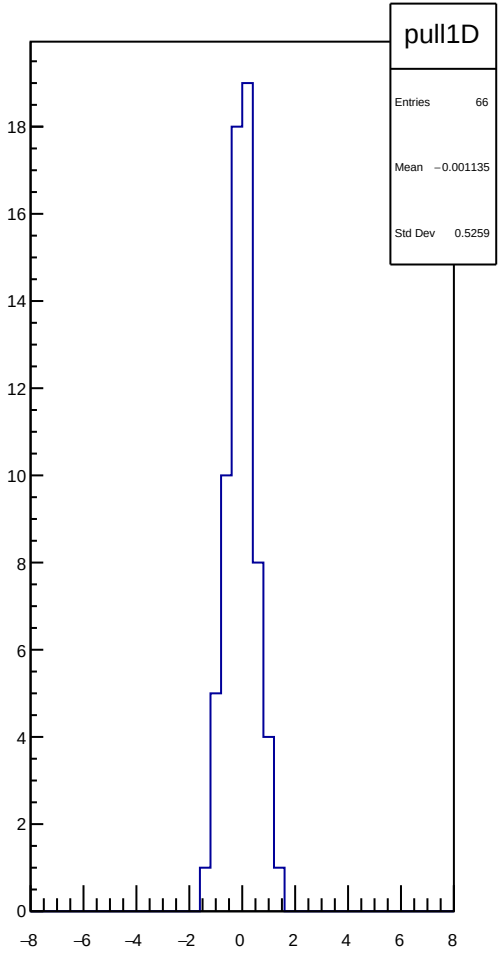

yield_bpm2i01WS_rms vs run
χ² / ndf 2399 / 65
p0 321.2 ± 0.2829
360
350
340
330
320
310
300
290
280

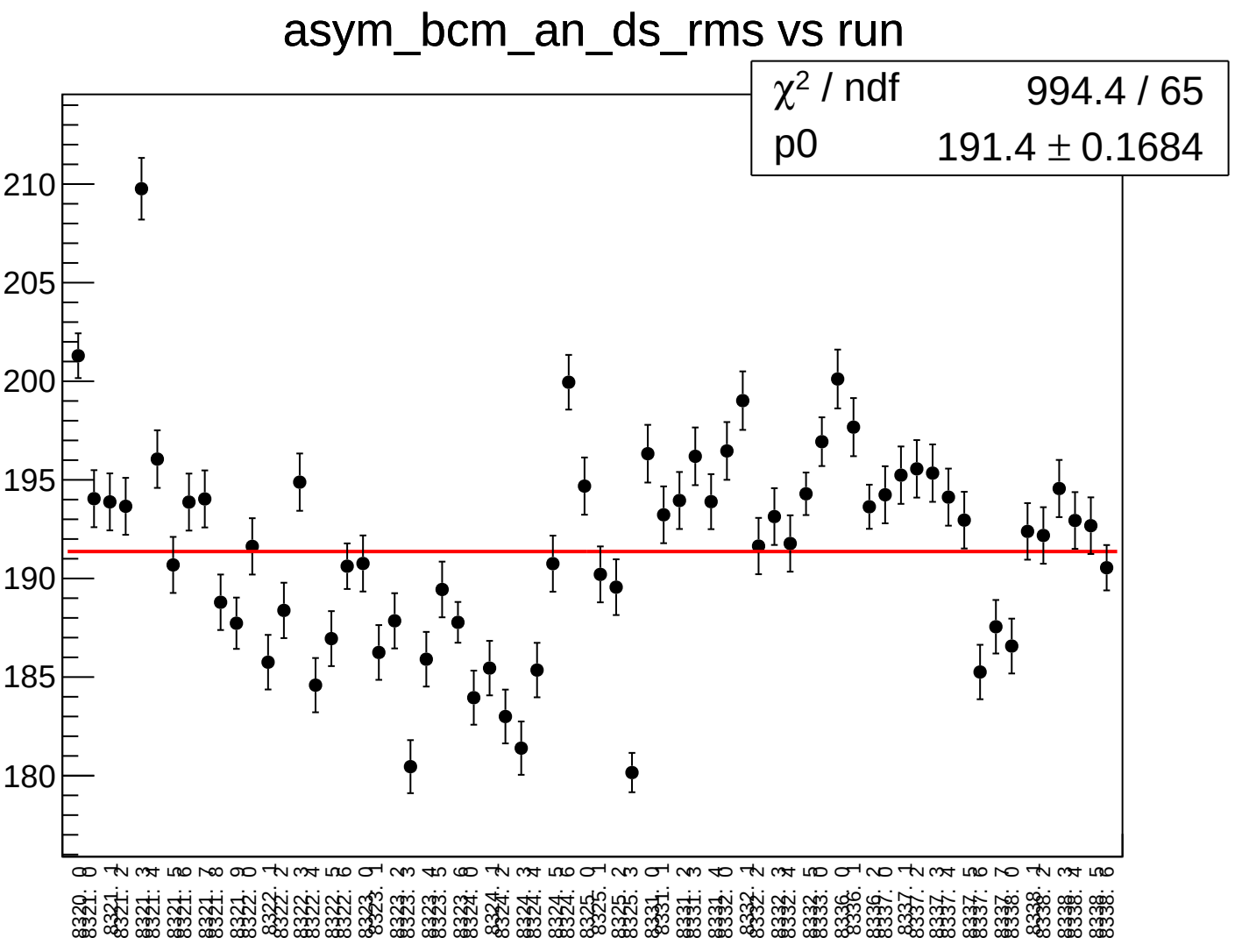

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.473e+04 / 65
p0 1.891e+05 ± 0.4538
189.2
189.15
189.1
189.05
189
188.95
188.9
pull
Entries 66
Mean −52.71
Std Dev 145
40
20
0
−20
−40

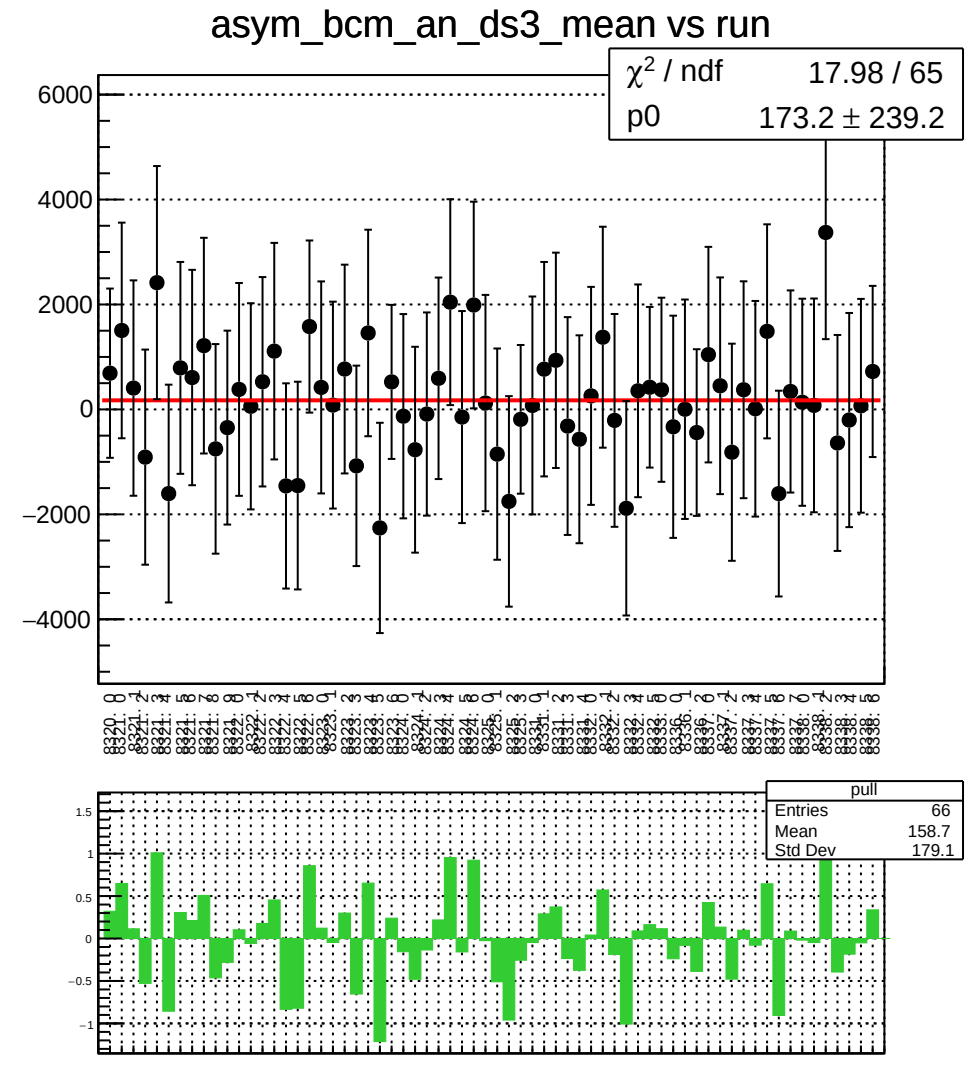

pull1D
Entries 66
Mean 1.884
Std Dev 3.987
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

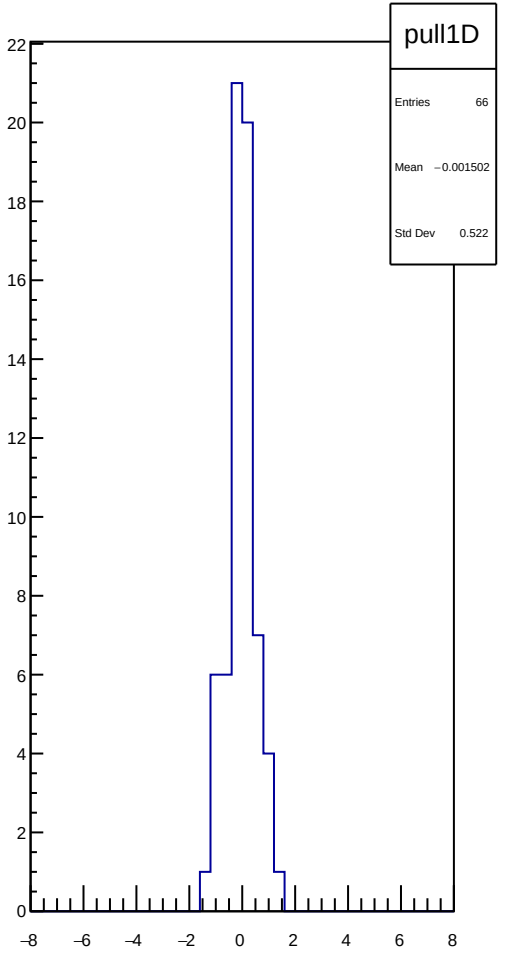

yield_bpm2i02WS_rms vs run
χ² / ndf 2021 / 65
p0 364.4 ± 0.3209
400
390
380
370
360
350
340
330
320

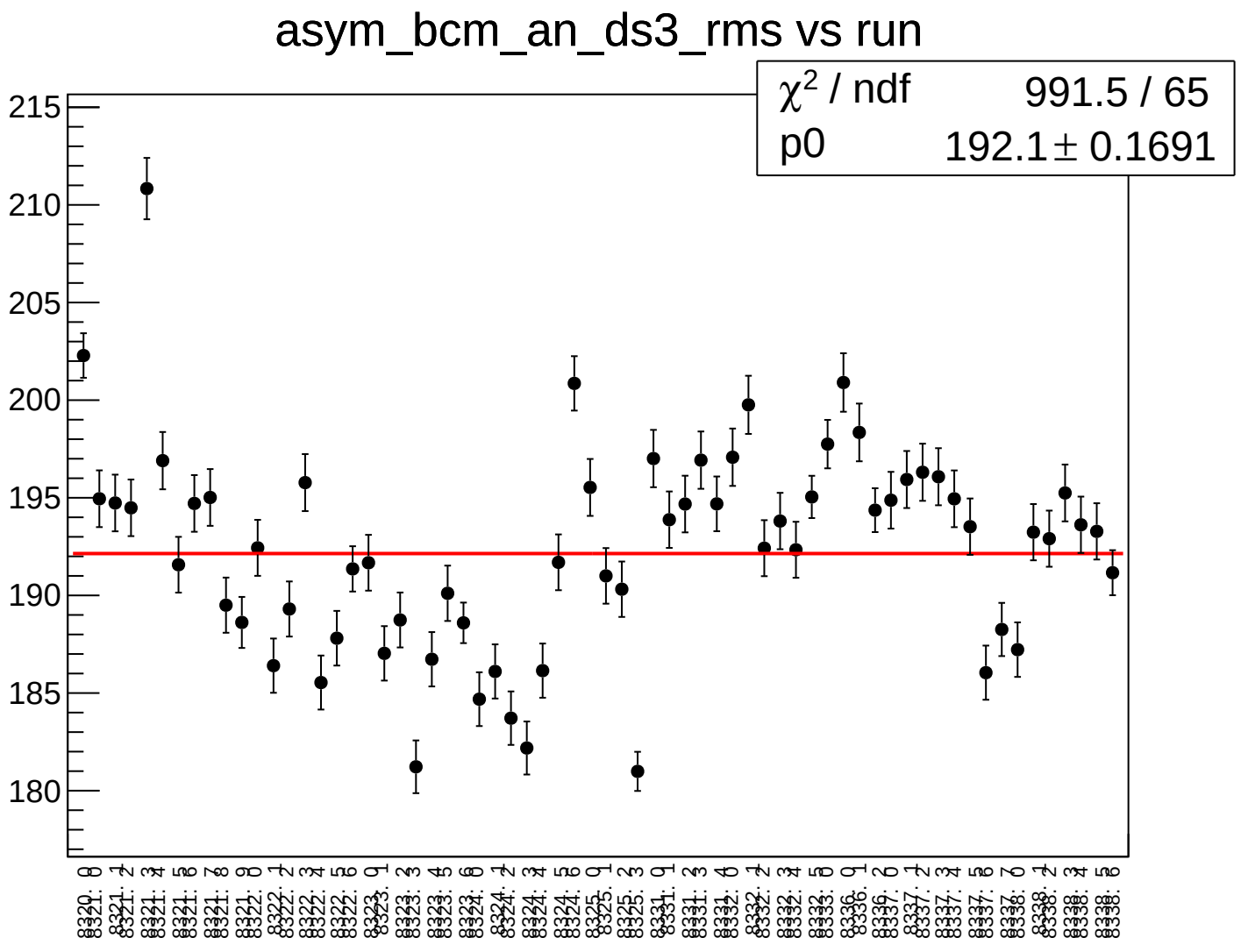

asym_bcm_an_ds_mean vs run
χ² / ndf 18.26 / 65
p0 171.3 ± 238.2
pull
Entries 66
Mean 131.5
Std Dev 177.6

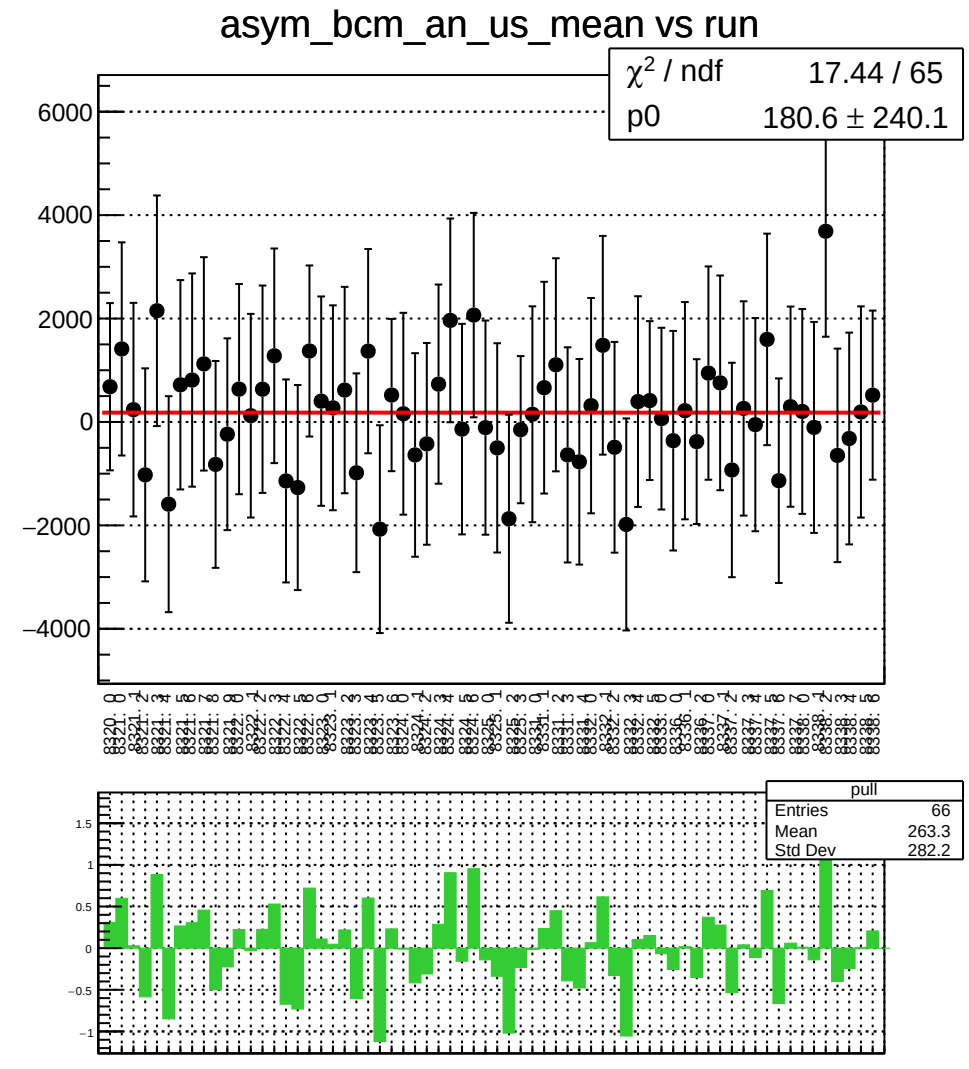

pull1D
Entries 66
Mean −0.001135
Std Dev 0.5259

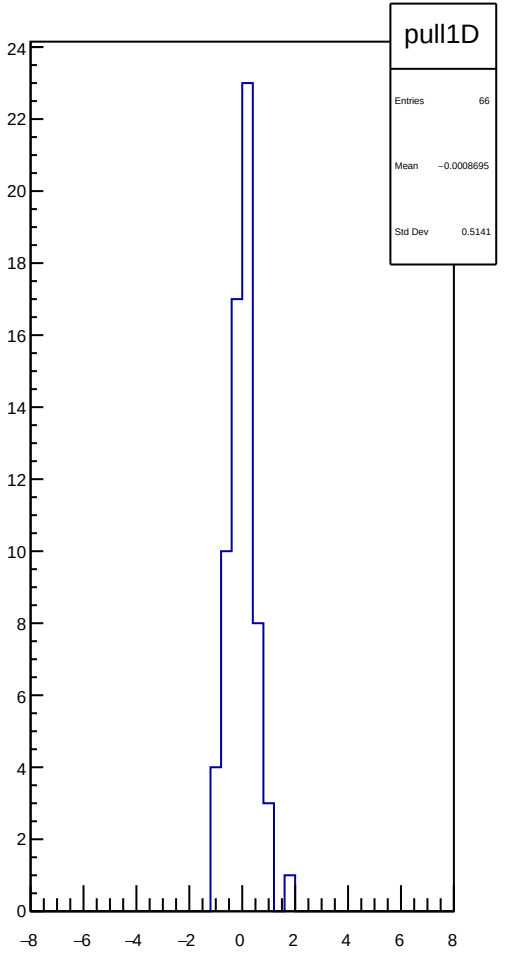

asym_bcm_an_ds_rms vs run
χ² / ndf 994.4 / 65
p0 191.4 ± 0.1684
210
205
200
195
190
185
180

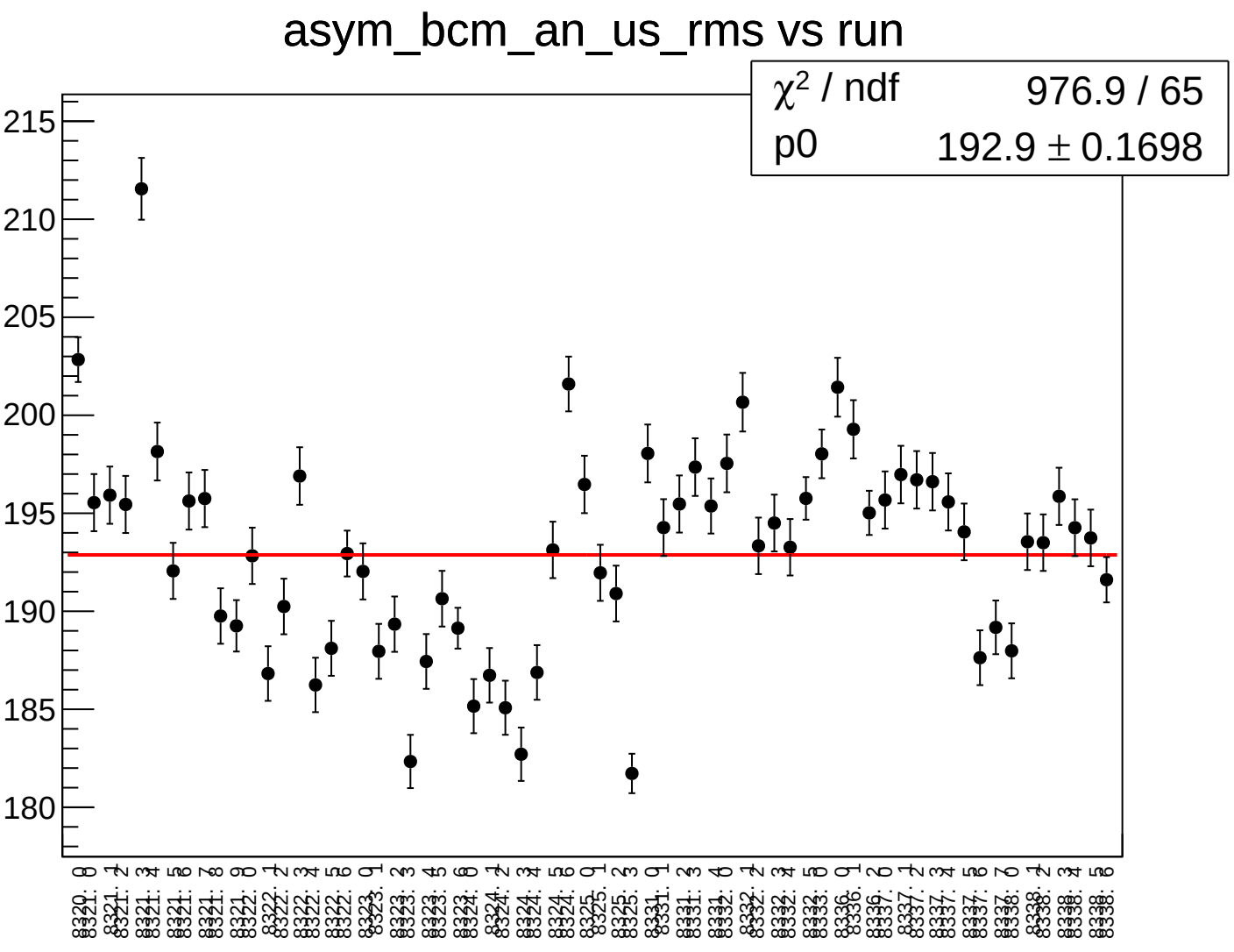

asym_bcm_an_ds3_mean vs run
χ² / ndf 17.98 / 65
p0 173.2 ± 239.2
6000
4000
2000
0
−2000
−4000
pull
Entries 66
Mean 158.7
Std Dev 179.1
1.5
1
0.5
0
−0.5
−1

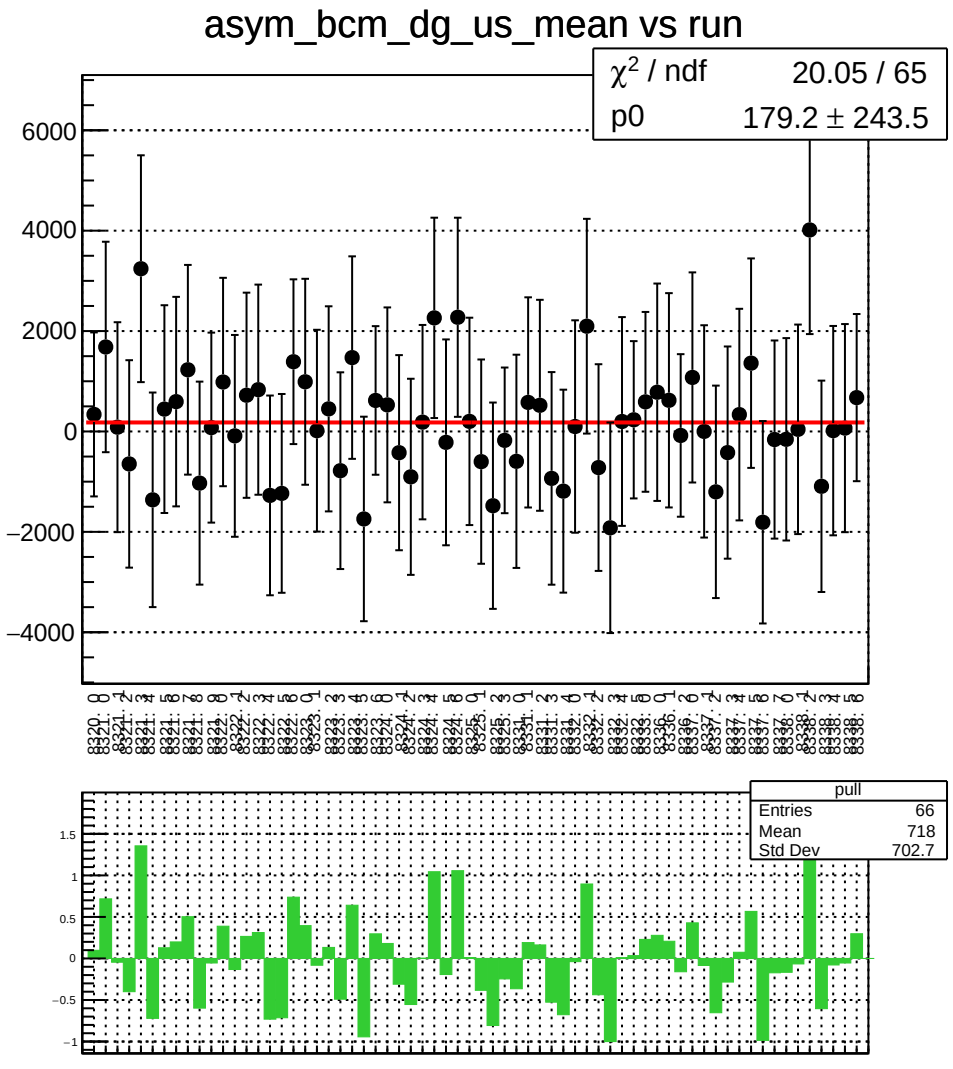

pull1D
Entries 66
Mean −0.001502
Std Dev 0.522
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

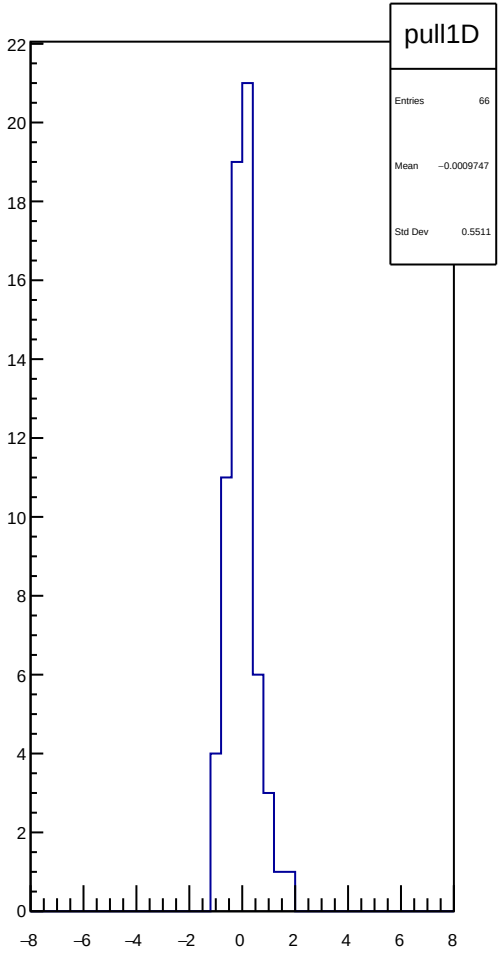

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 991.5 / 65
p0 192.1 ± 0.1691
215
210
205
200
195
190
185
180

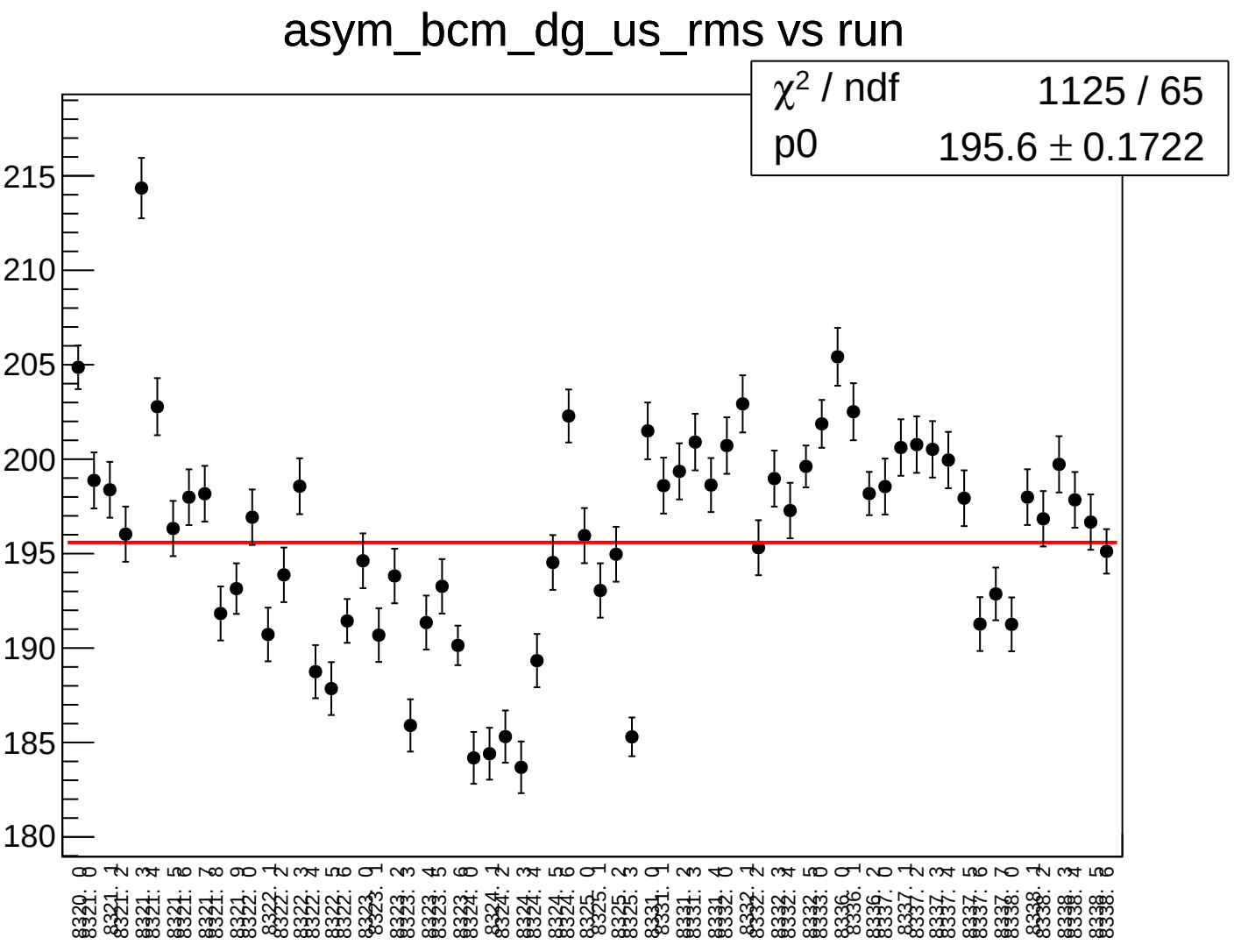

asym_bcm_an_us_mean vs run
χ² / ndf 17.44 / 65
p0 180.6 ± 240.1
pull
Entries 66
Mean 263.3
Std Dev 282.2

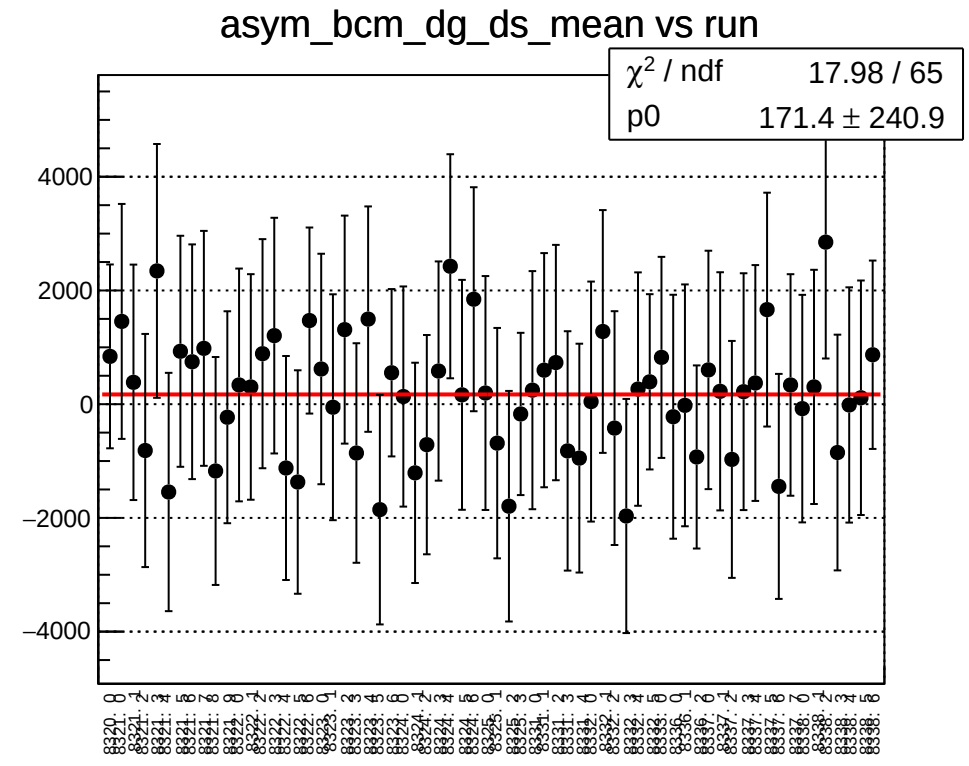

pull1D
Entries 66
Mean −0.0008695
Std Dev 0.5141

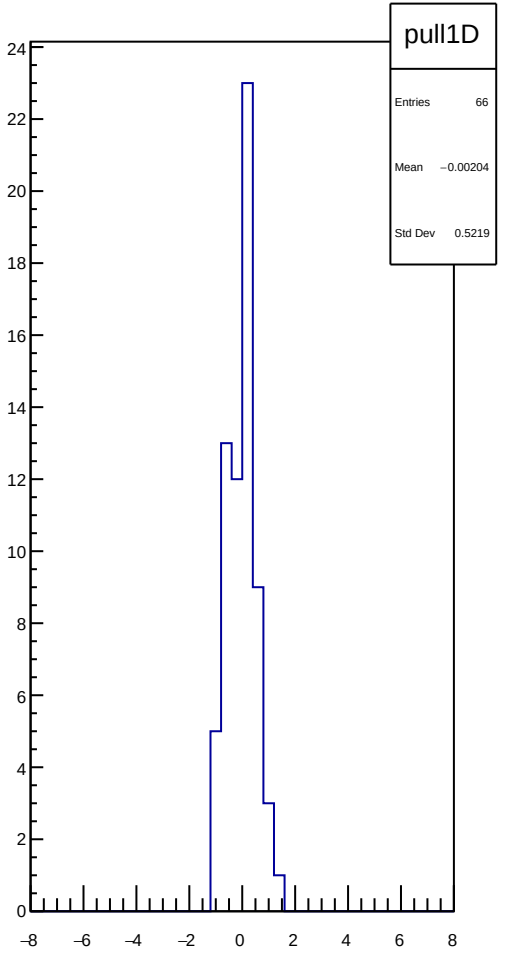

asym_bcm_an_us_rms vs run
χ² / ndf 976.9 / 65
p0 192.9 ± 0.1698
215
210
205
200
195
190
185
180

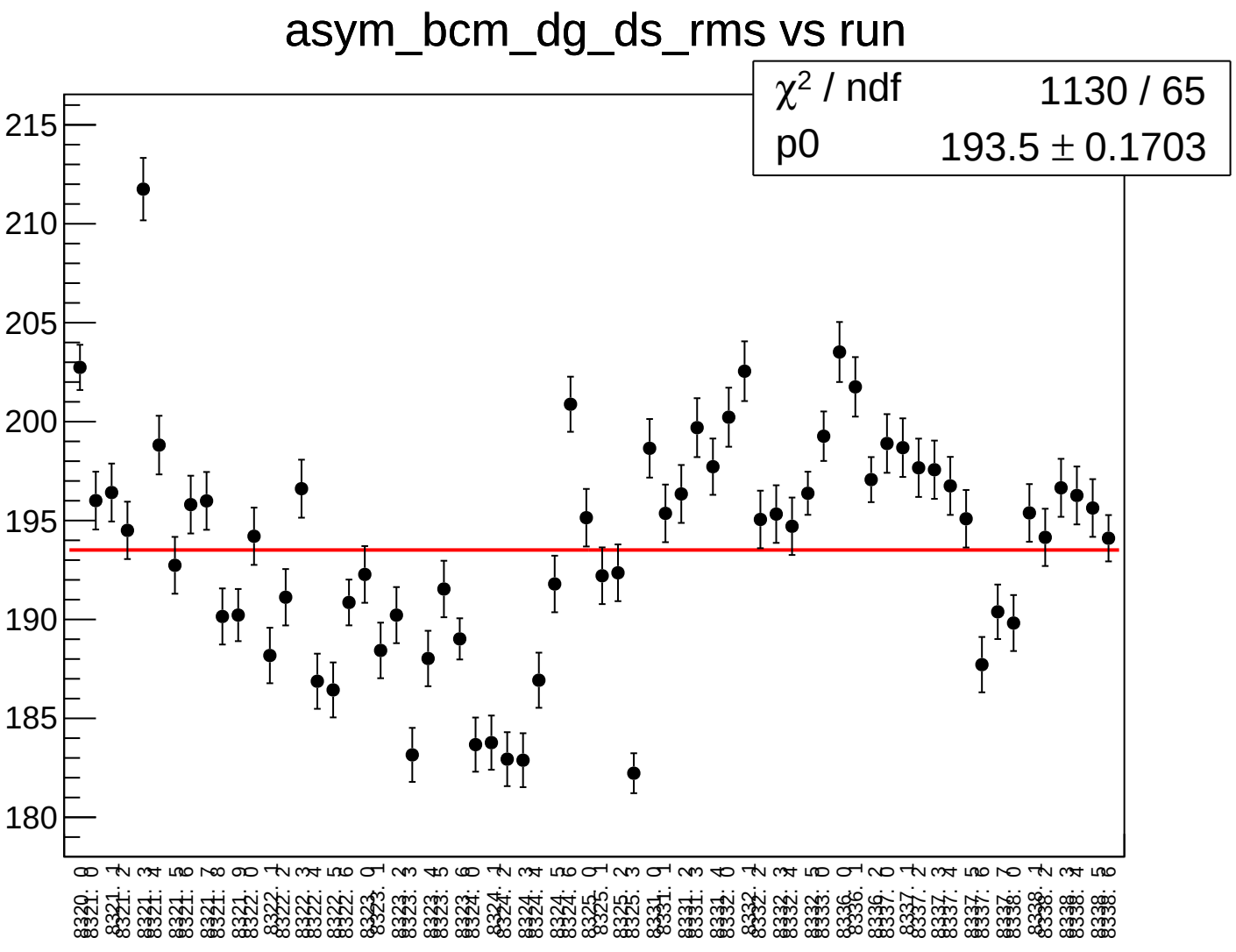

asym_bcm_dg_us_mean vs run
χ² / ndf 20.05 / 65
p0 179.2 ± 243.5
pull
Entries 66
Mean 718
Std Dev 702.7

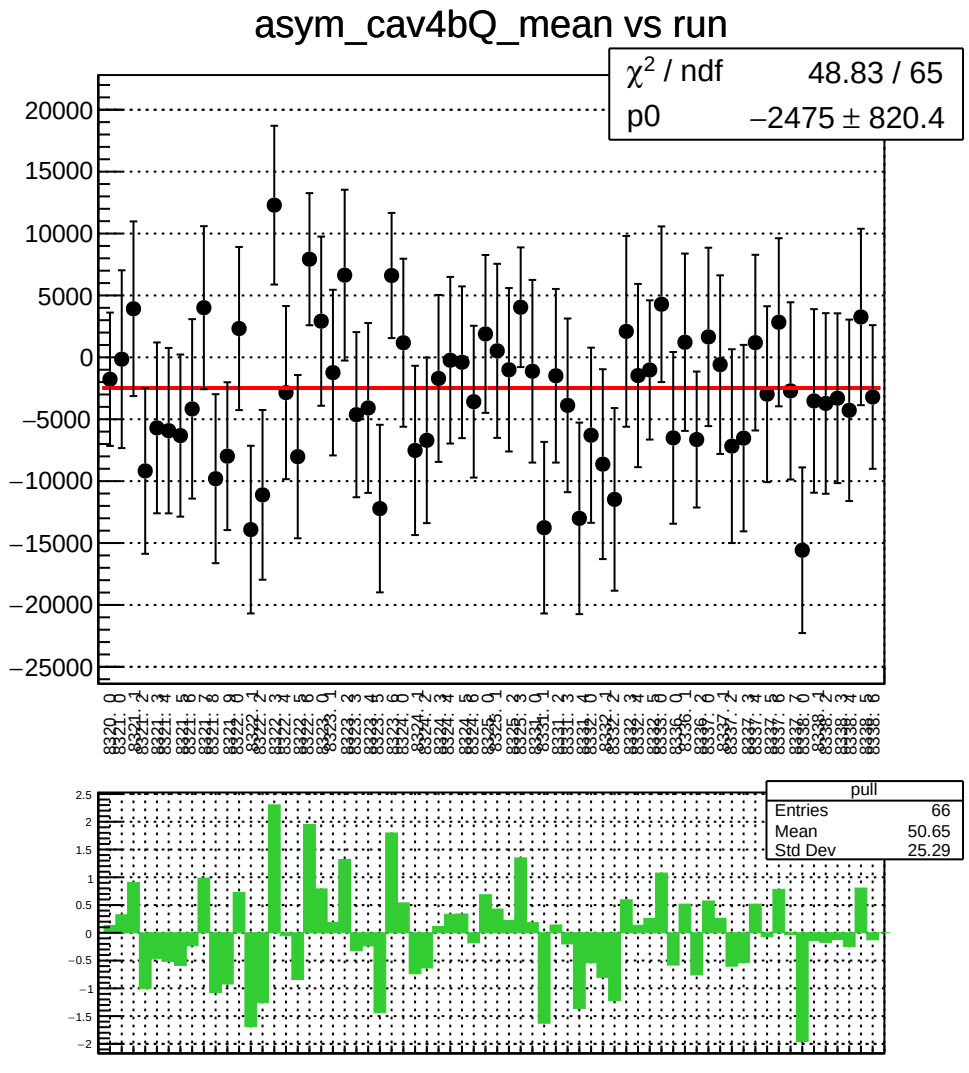

pull1D
Entries 66
Mean −0.0009747
Std Dev 0.5511

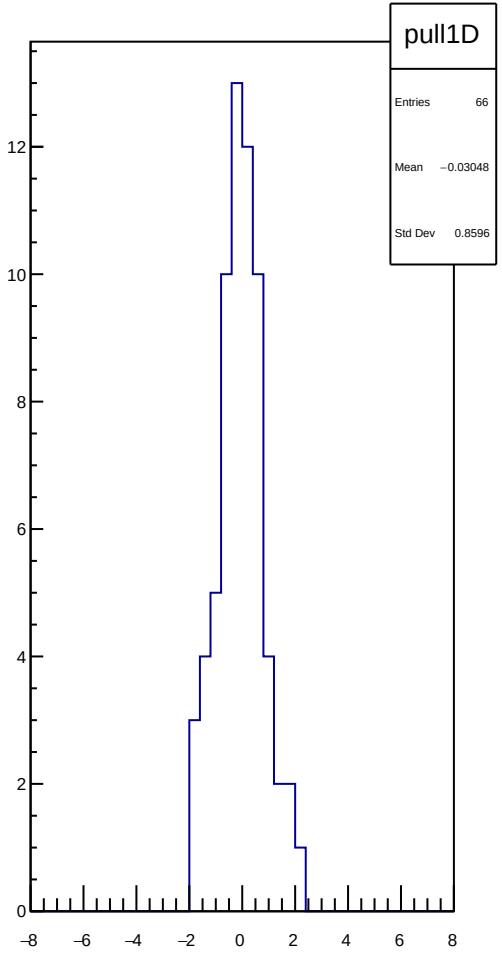

asym_bcm_dg_us_rms vs run
χ² / ndf 1125 / 65
p0 195.6 ± 0.1722
215
210
205
200
195
190
185
180

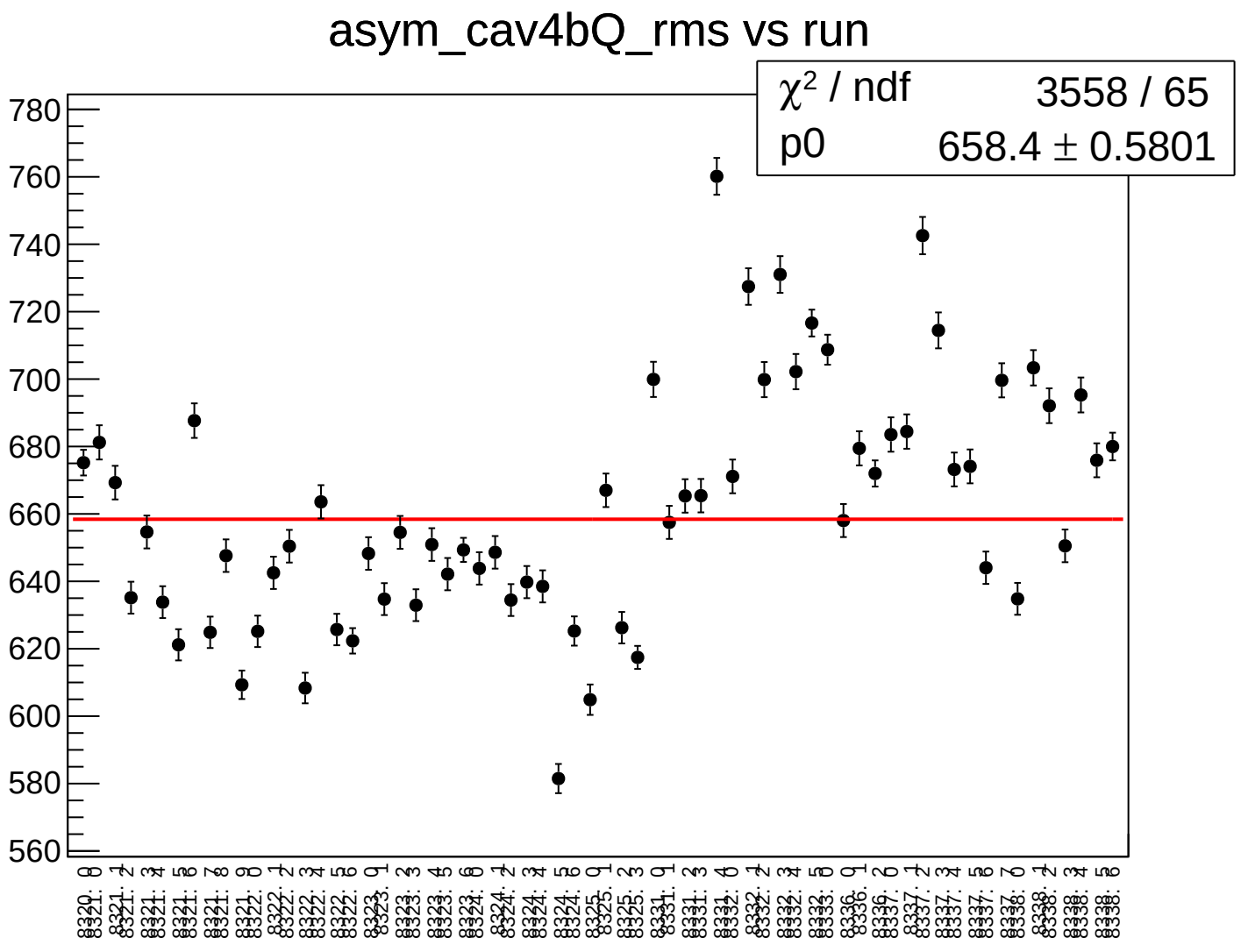

asym_bcm_dg_ds_mean vs run
χ² / ndf 17.98 / 65
p0 171.4 ± 240.9
4000
2000
0
−2000
−4000
pull
Entries 66
Mean 339.7
Std Dev 327.1
1
0.5
0
−0.5
−1

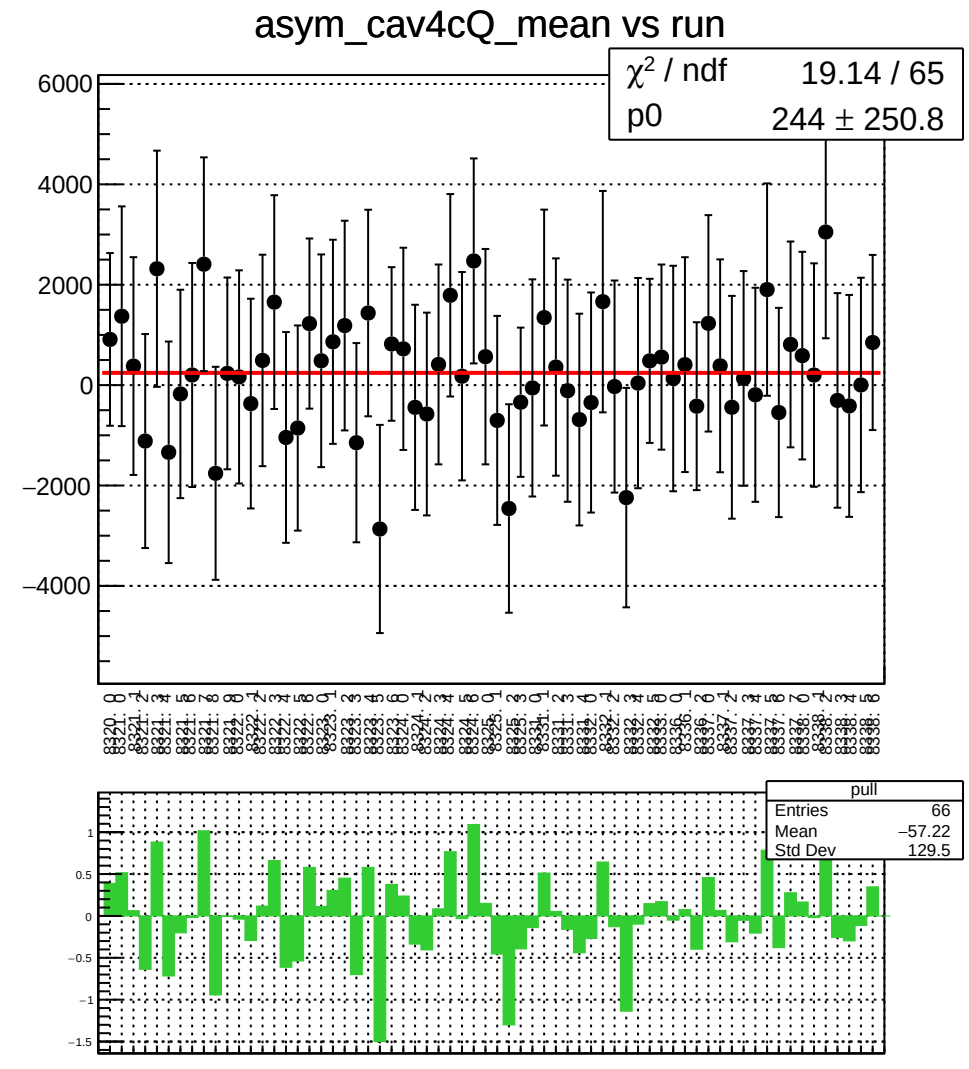

pull1D
Entries 66
Mean −0.00204
Std Dev 0.5219
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

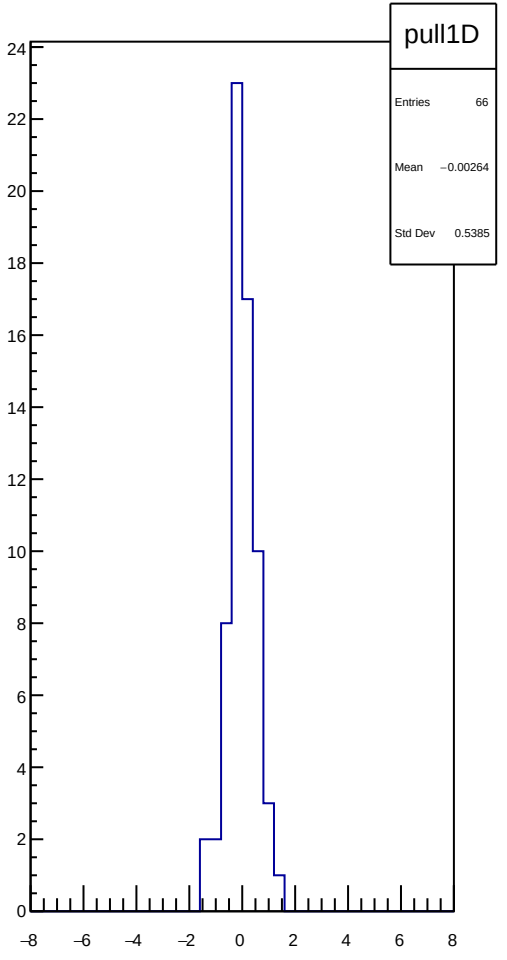

asym_bcm_dg_ds_rms vs run
χ² / ndf 1130 / 65
p0 193.5 ± 0.1703
215
210
205
200
195
190
185
180

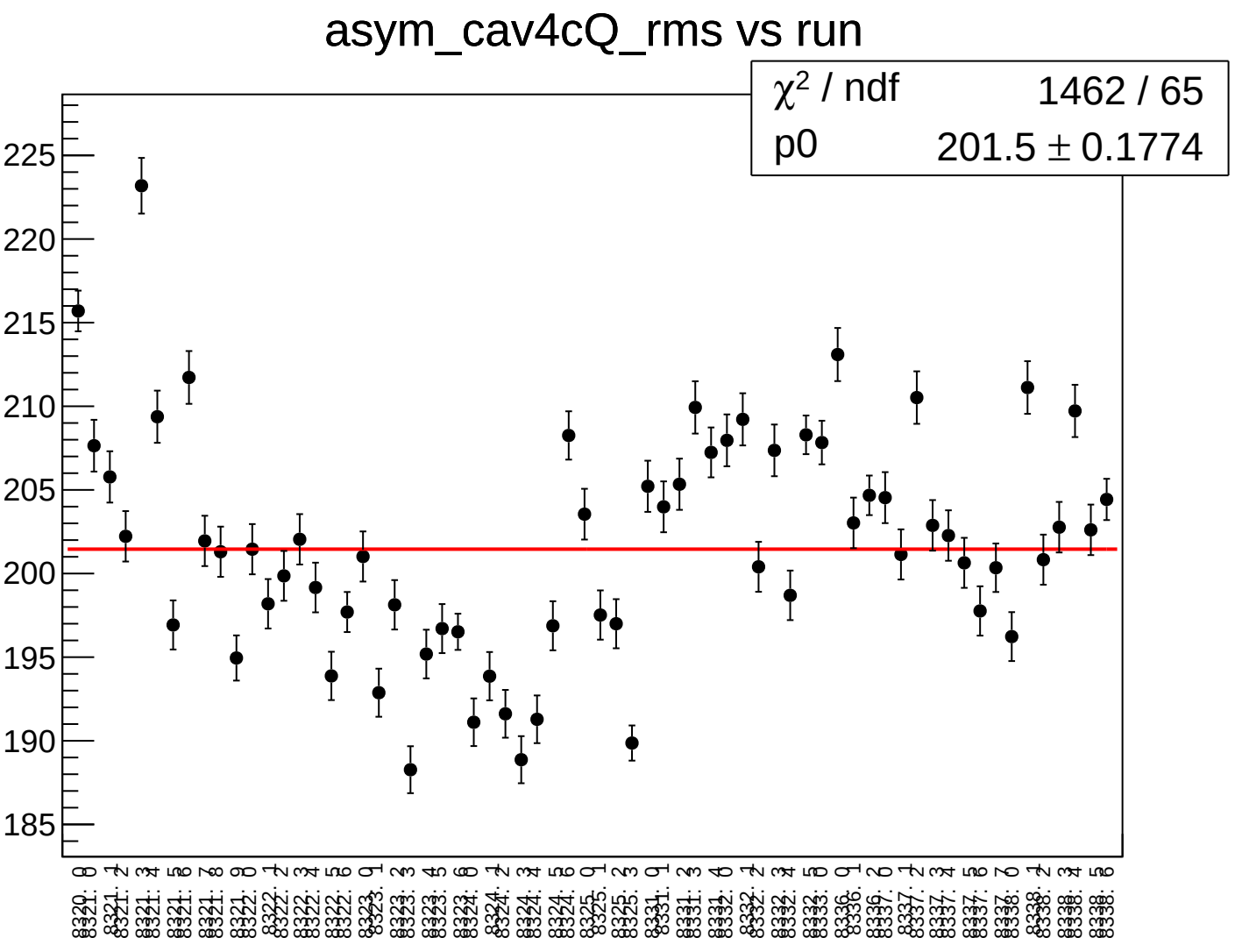

asym_cav4bQ_mean vs run
χ² / ndf 48.83 / 65
p0 −2475 ± 820.4
pull
Entries 66
Mean 50.65
Std Dev 25.29

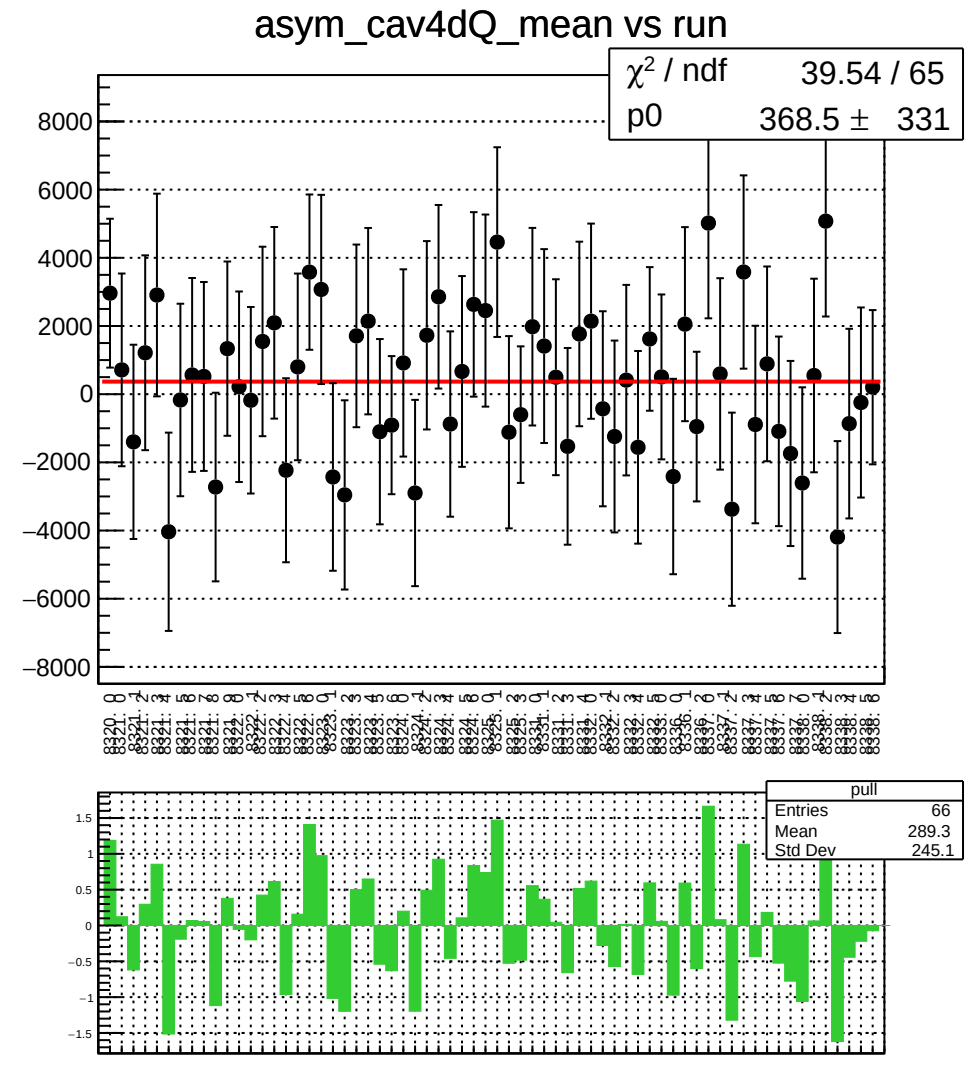

pull1D
Entries 66
Mean −0.03048
Std Dev 0.8596

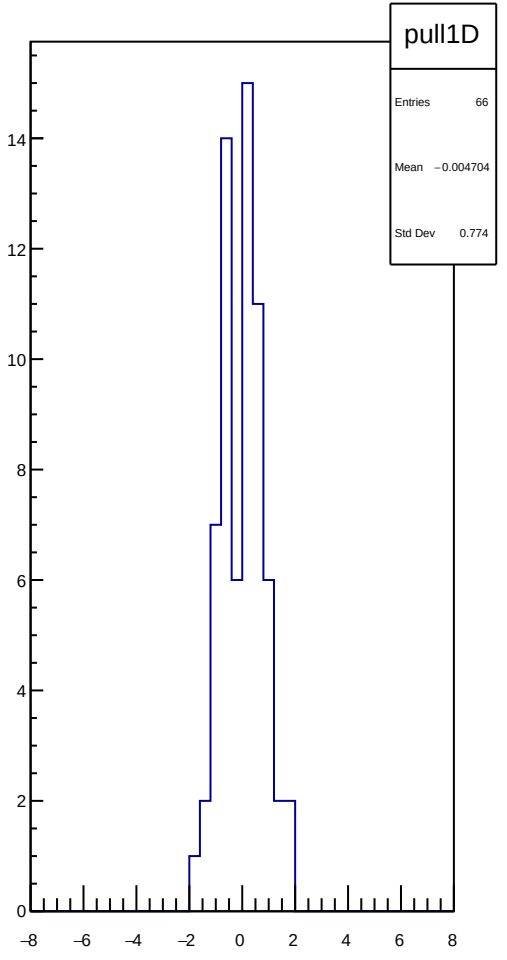

asym_cav4bQ_rms vs run
χ² / ndf 3558 / 65
p0 658.4 ± 0.5801
780
760
740
720
700
680
660
640
620
600
580
560

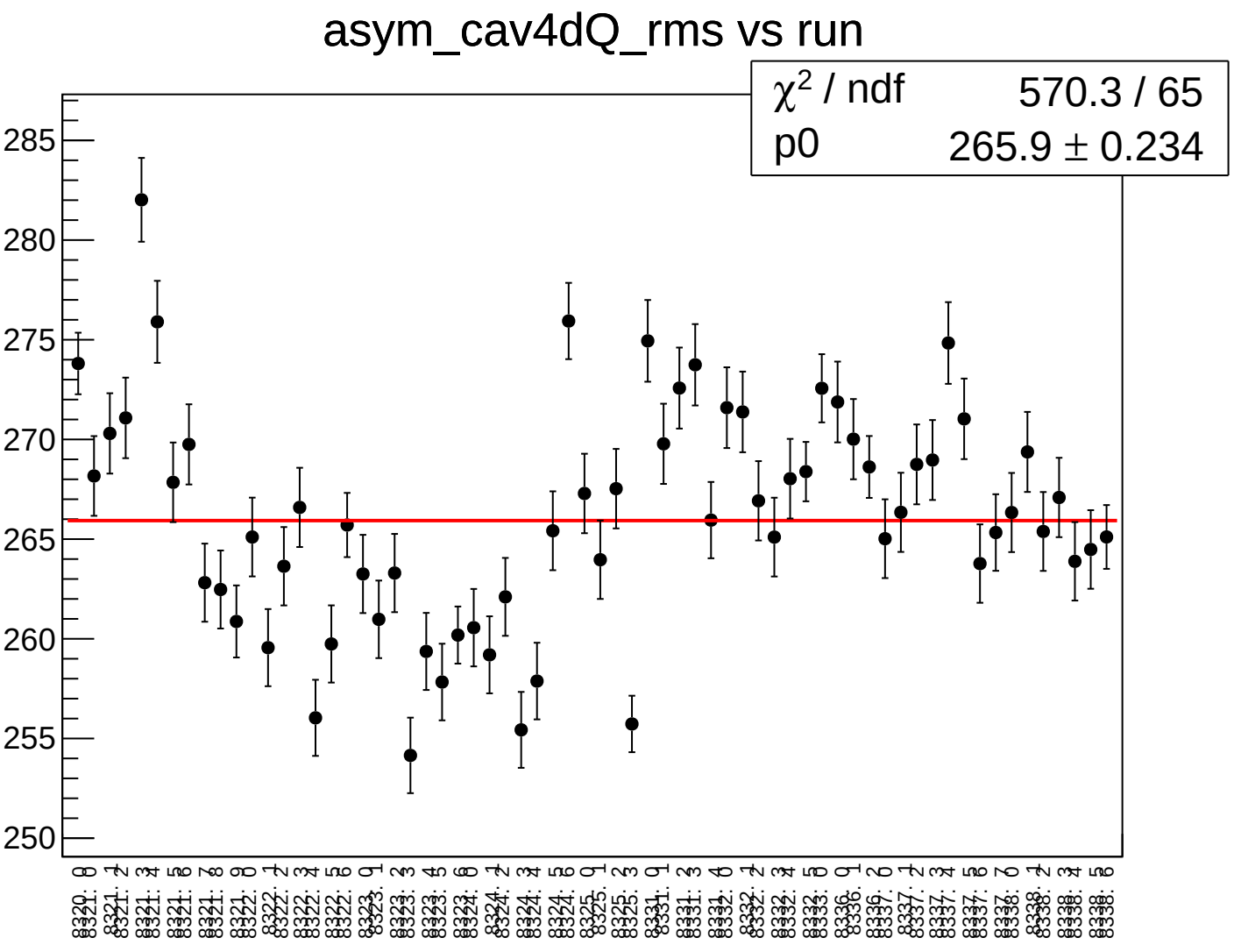

asym_cav4cQ_mean vs run
χ² / ndf 19.14 / 65
p0 244 ± 250.8
pull
Entries 66
Mean −57.22
Std Dev 129.5

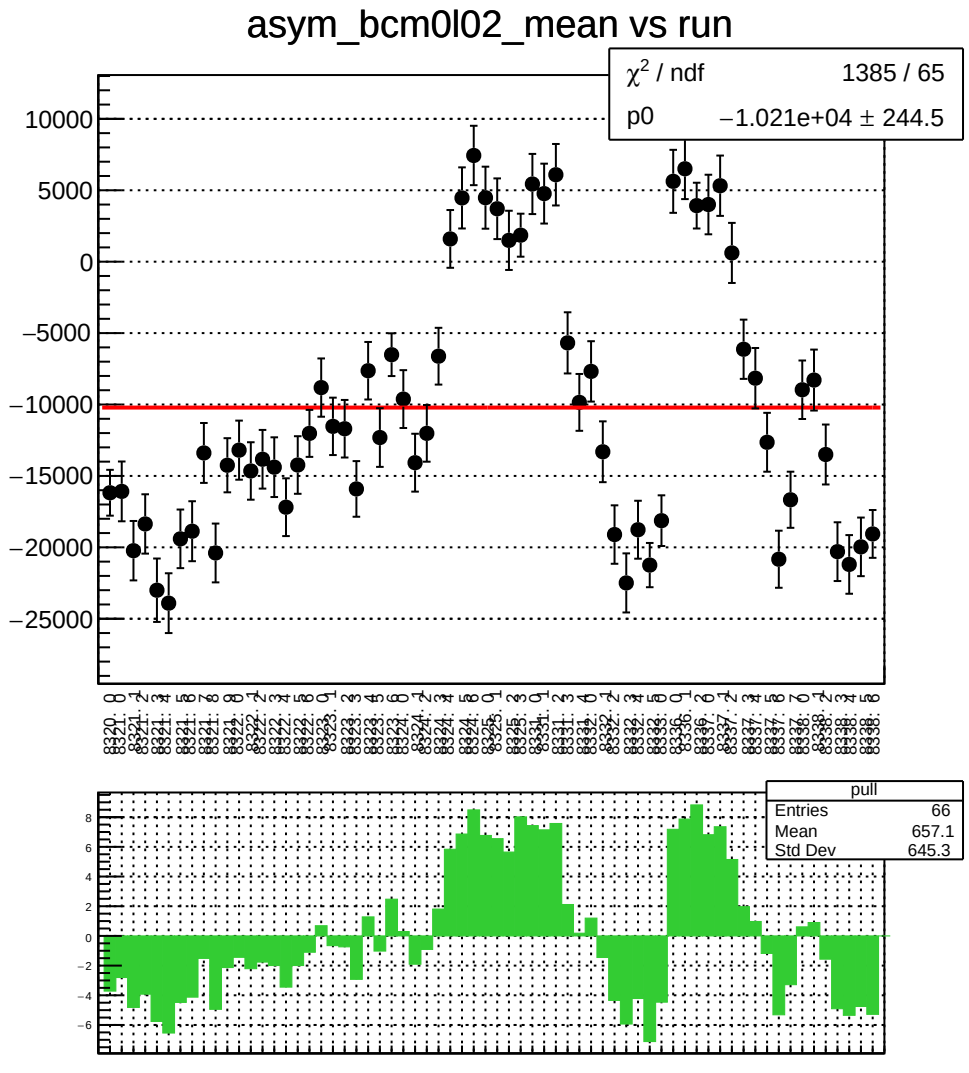

pull1D
Entries 66
Mean −0.00264
Std Dev 0.5385

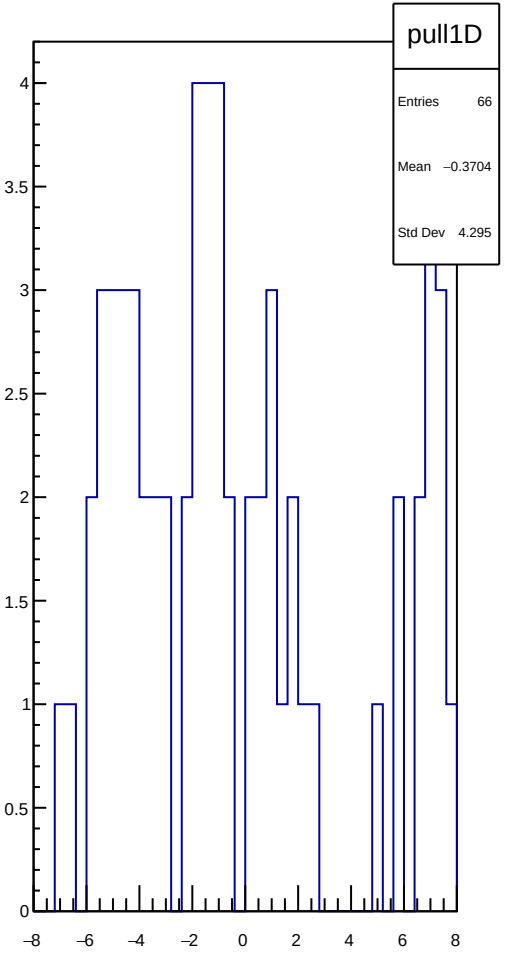

asym_cav4cQ_rms vs run
χ² / ndf 1462 / 65
p0 201.5 ± 0.1774
225
220
215
210
205
200
195
190
185

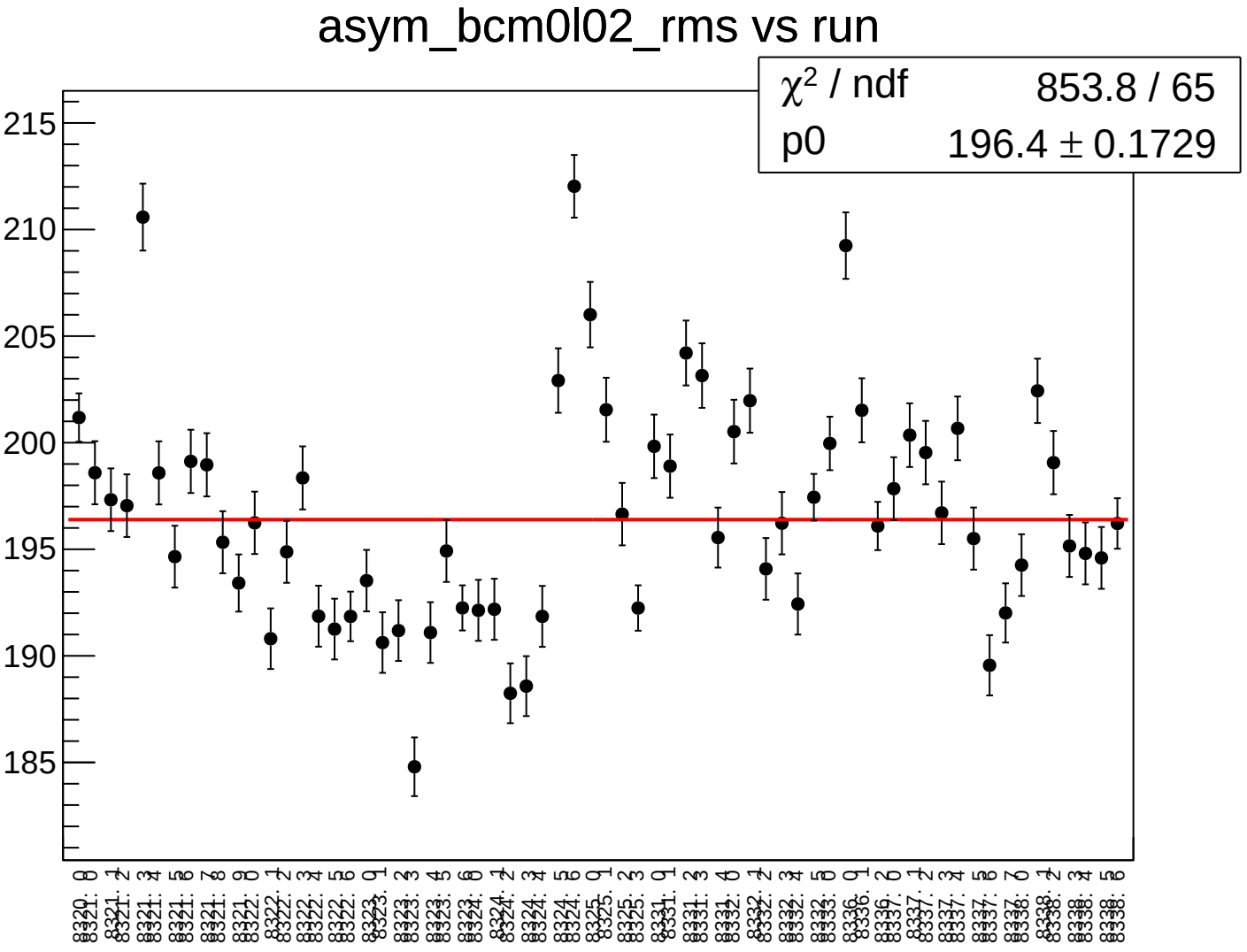

asym_cav4dQ_mean vs run
χ² / ndf 39.54 / 65
p0 368.5 ± 331
pull
Entries 66
Mean 289.3
Std Dev 245.1

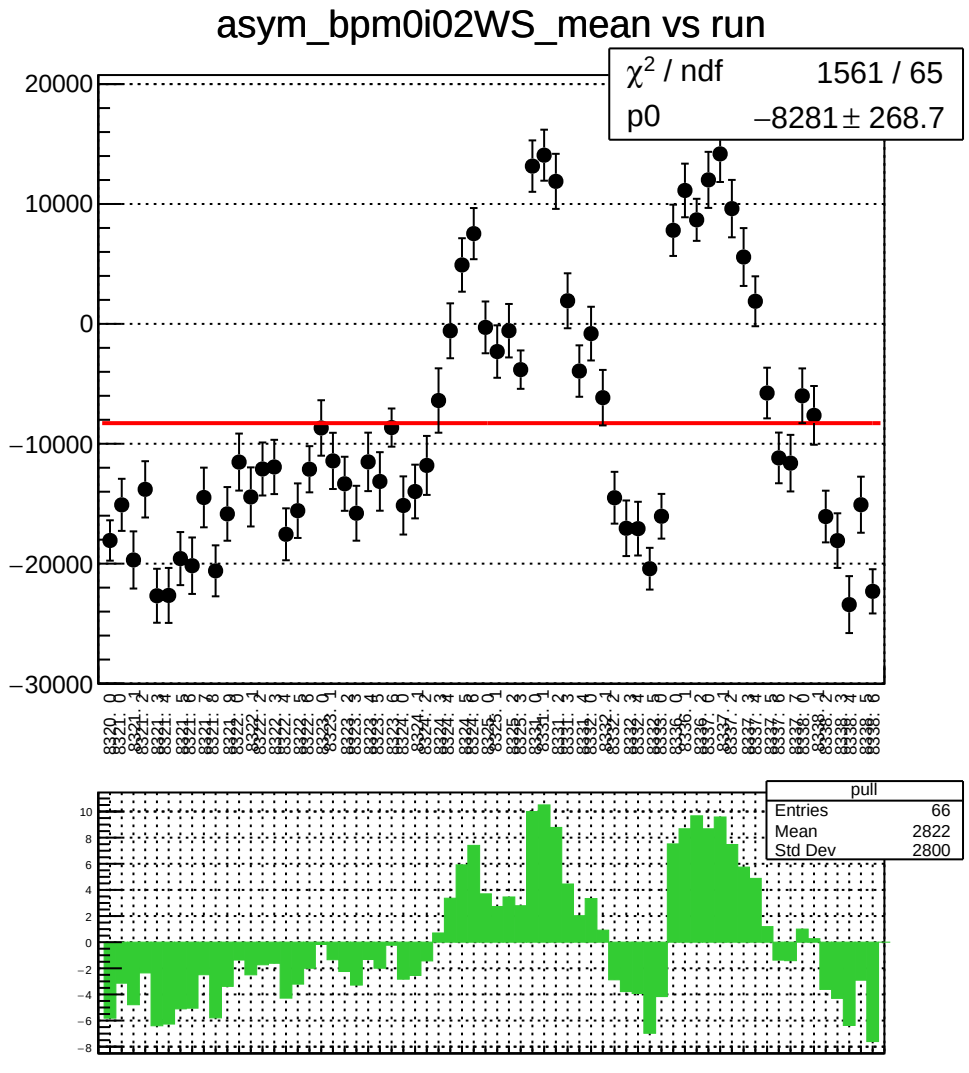

pull1D
Entries 66
Mean −0.004704
Std Dev 0.774

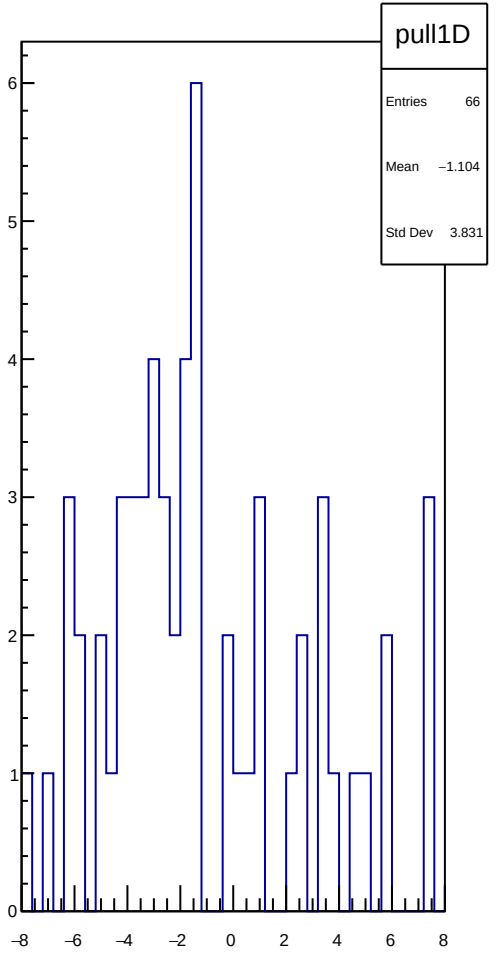

asym_cav4dQ_rms vs run
χ² / ndf 570.3 / 65
p0 265.9 ± 0.234
285
280
275
270
265
260
255
250

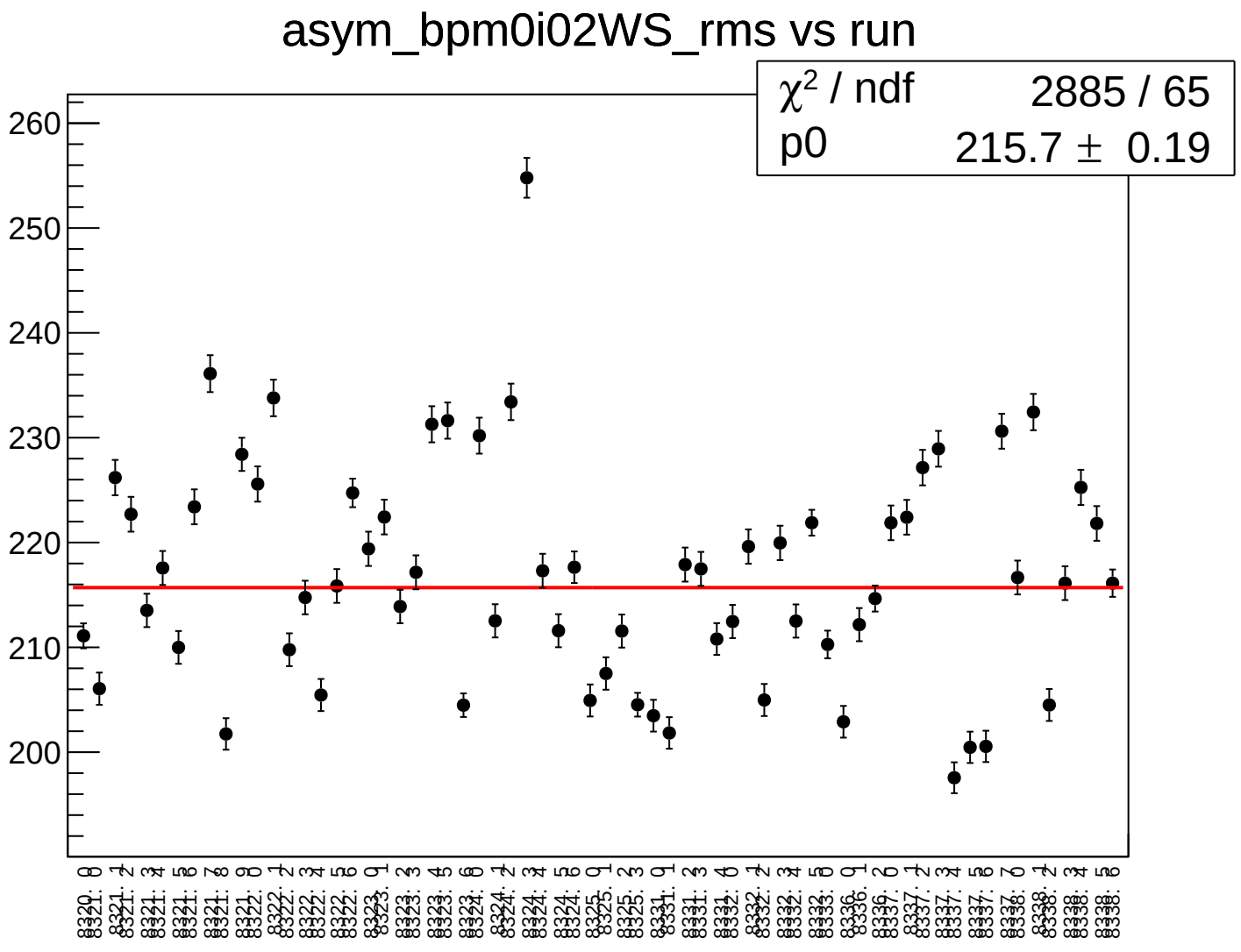

asym_bcm0l02_mean vs run
χ² / ndf 1385 / 65
p0 −1.021e+04 ± 244.5
pull
Entries 66
Mean 657.1
Std Dev 645.3

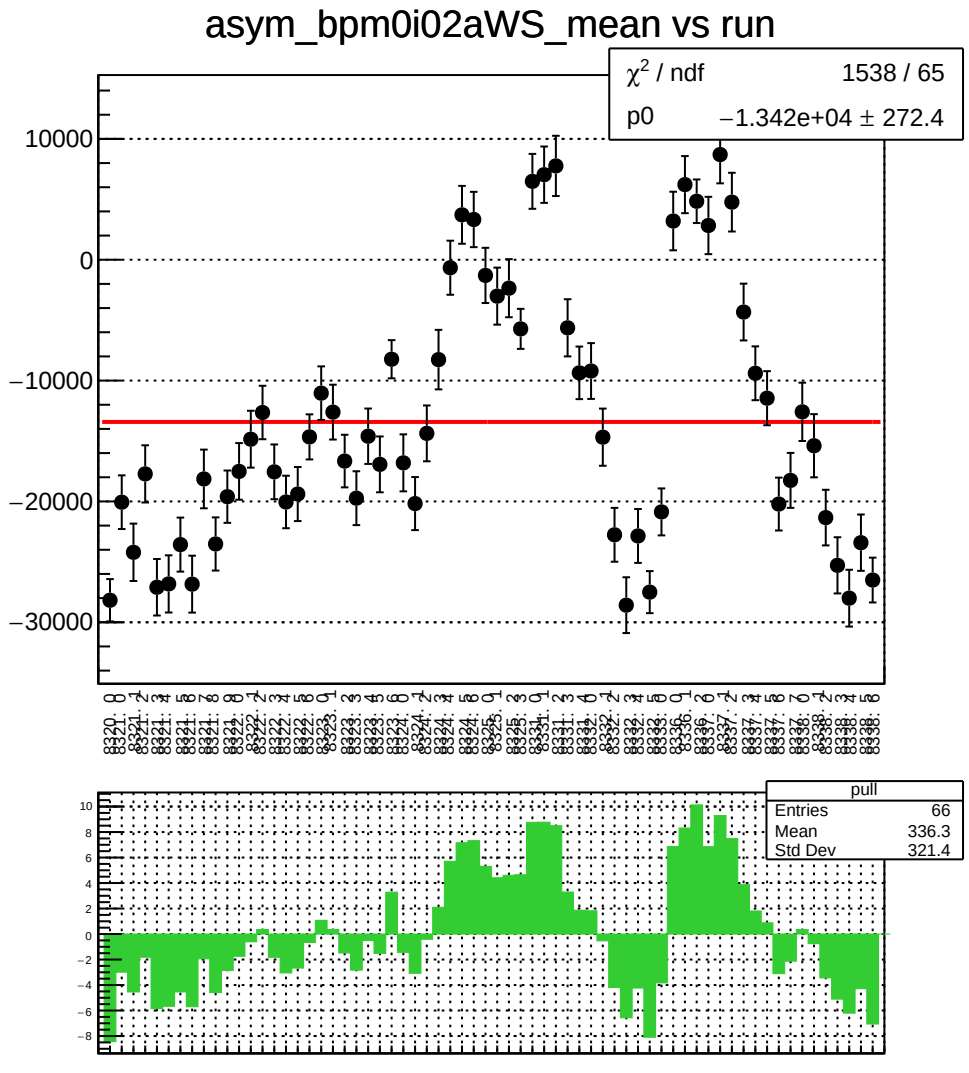

pull1D
Entries 66
Mean −0.3704
Std Dev 4.295

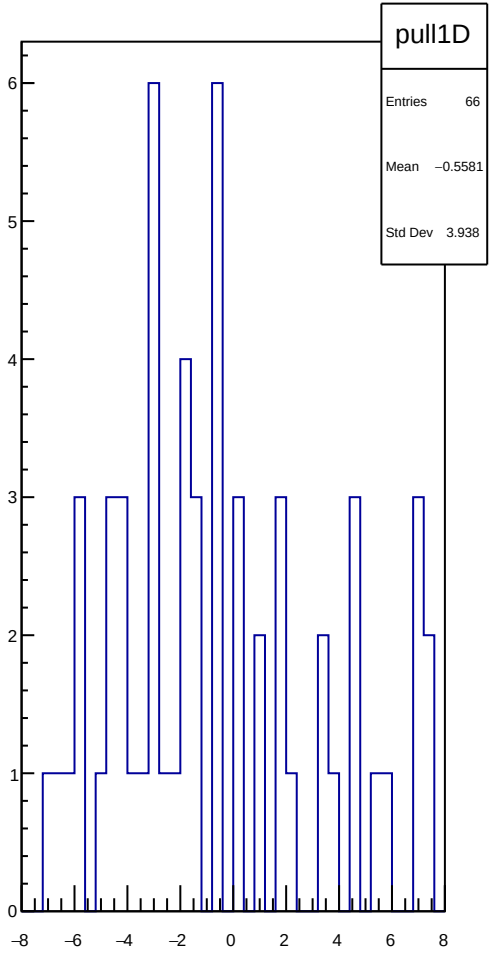

asym_bcm0l02_rms vs run
χ² / ndf 853.8 / 65
p0 196.4 ± 0.1729
215
210
205
200
195
190
185

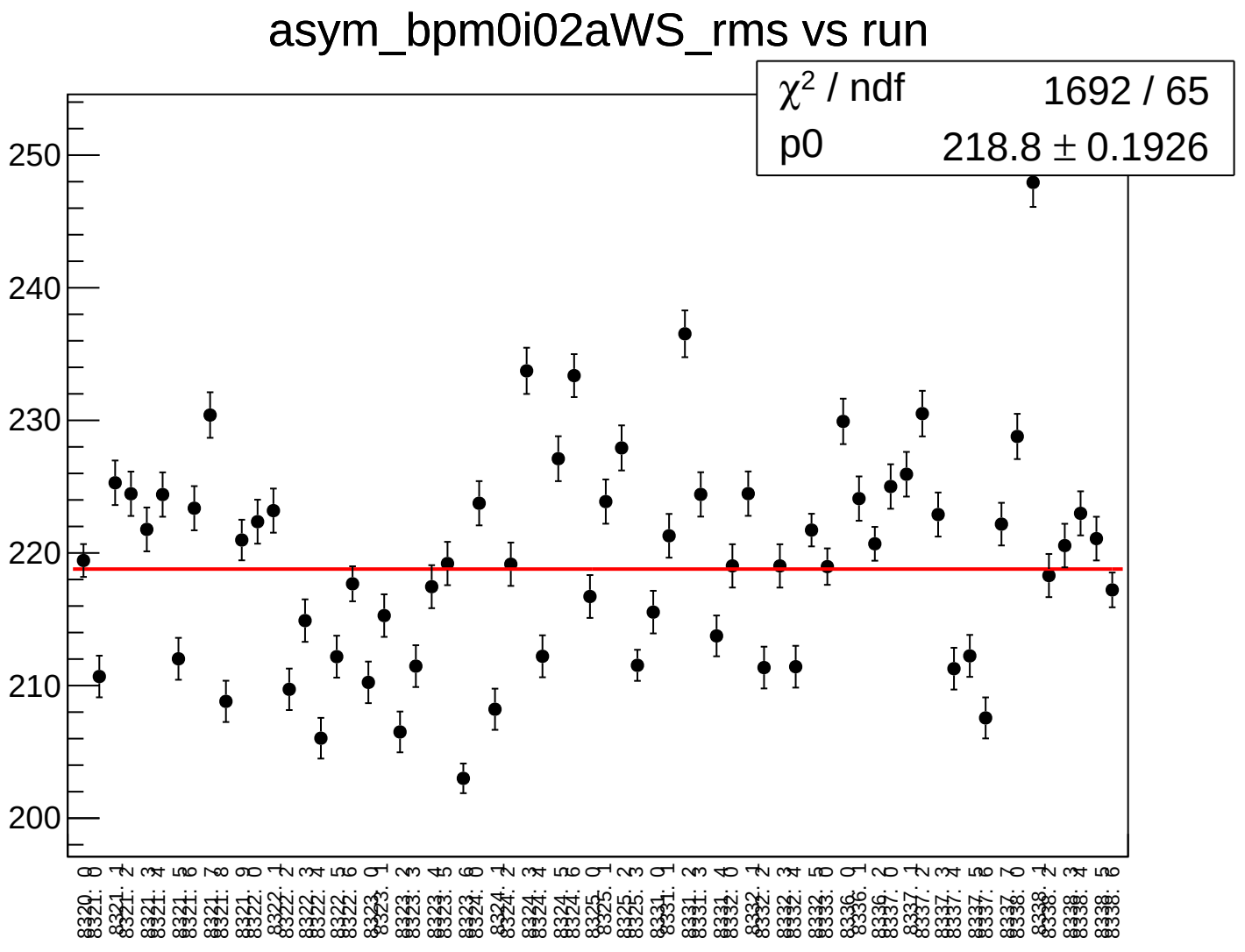

asym_bpm0i02WS_mean vs run
χ² / ndf 1561 / 65
p0 −8281 ± 268.7
pull
Entries 66
Mean 2822
Std Dev 2800

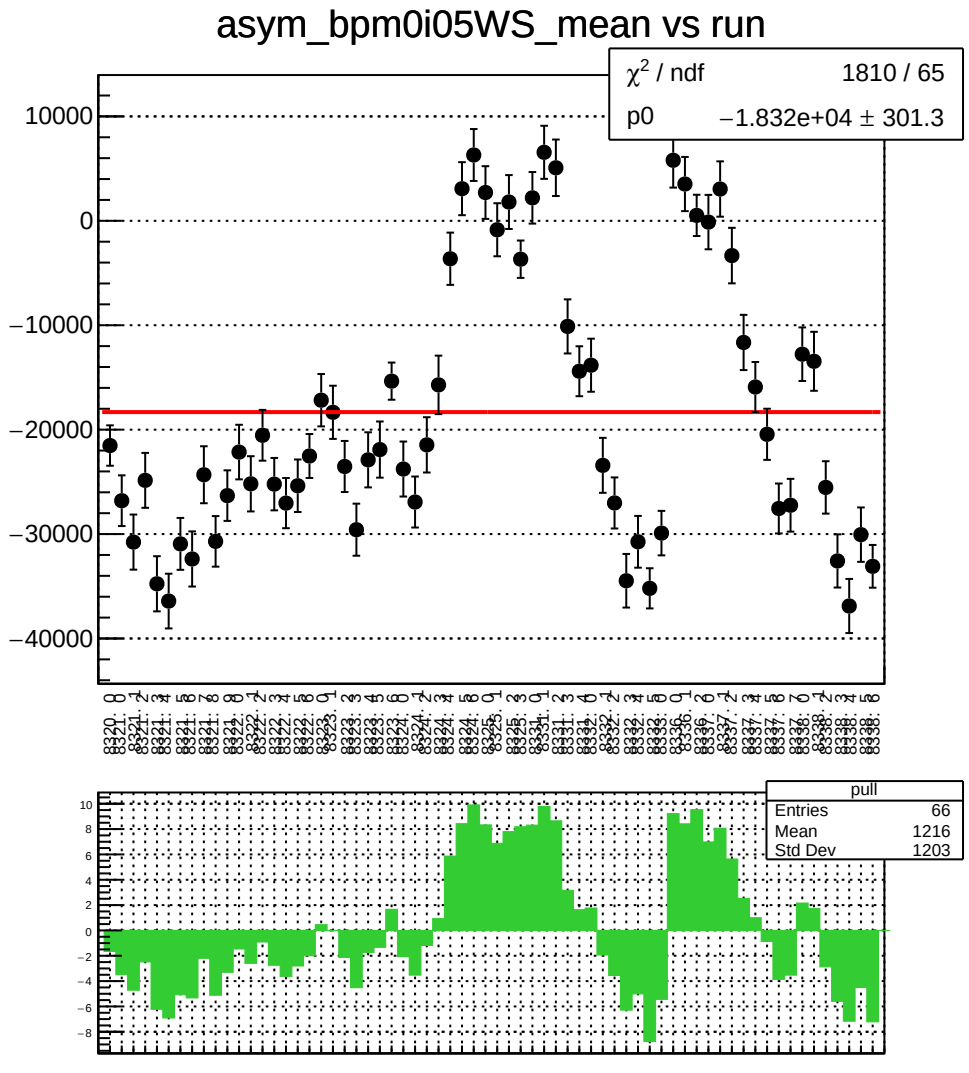

pull1D
Entries 66
Mean −1.104
Std Dev 3.831

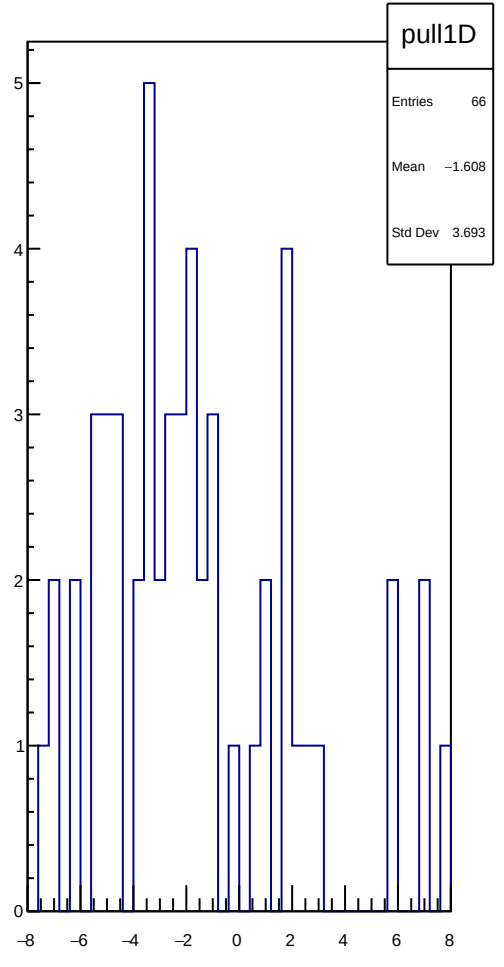

asym_bpm0i02WS_rms vs run
χ² / ndf 2885 / 65
p0 215.7 ± 0.19
260
250
240
230
220
210
200

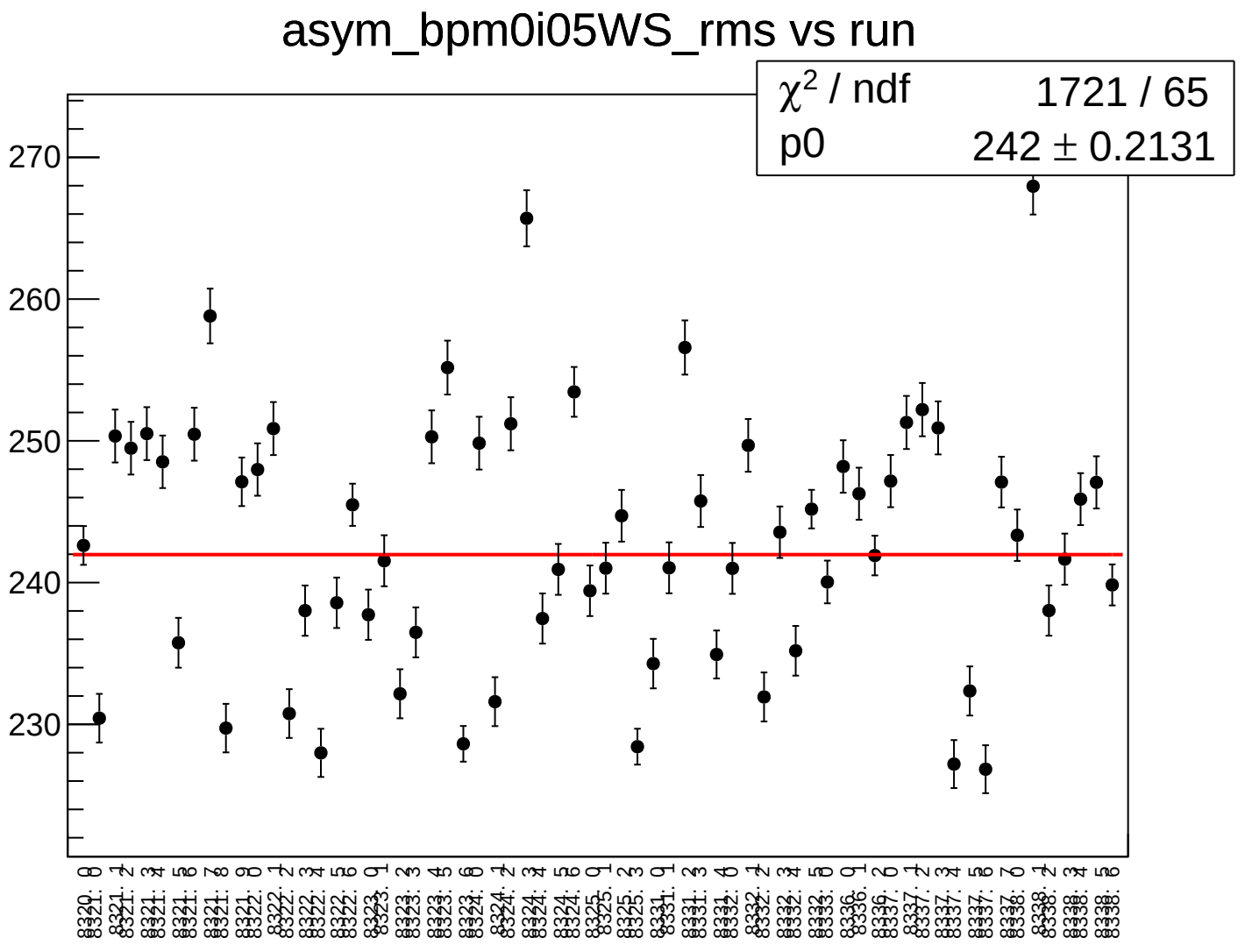

asym_bpm0i02aWS_mean vs run
χ² / ndf 1538 / 65
p0 −1.342e+04 ± 272.4
pull
Entries 66
Mean 336.3
Std Dev 321.4

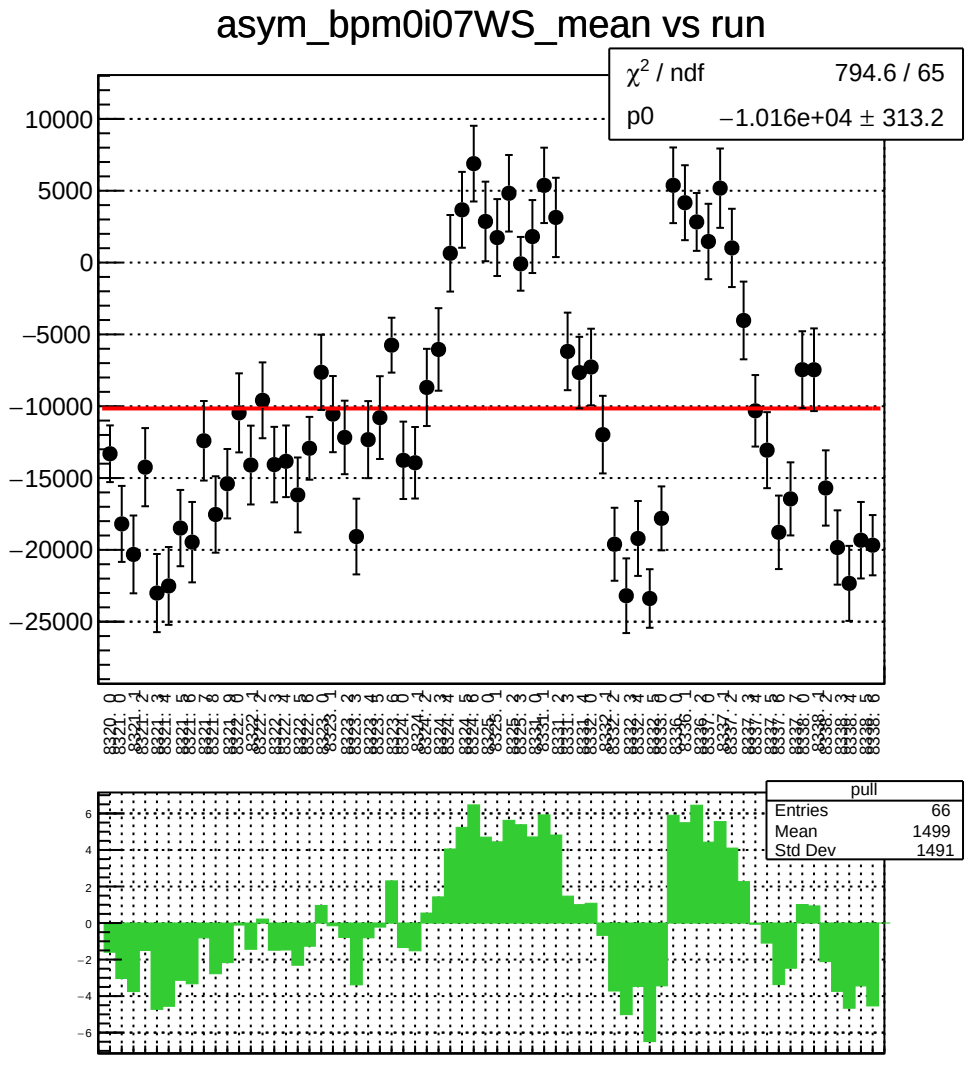

pull1D
Entries 66
Mean −0.5581
Std Dev 3.938

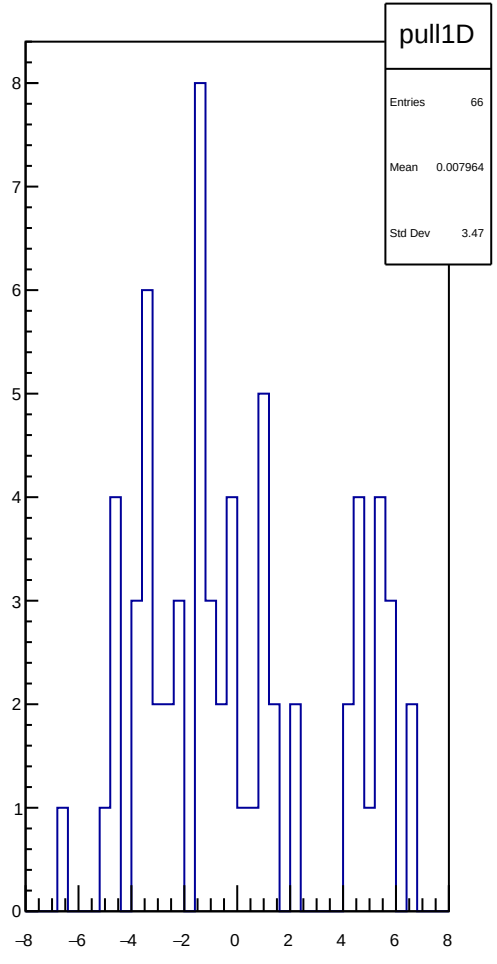

asym_bpm0i02aWS_rms vs run
χ² / ndf 1692 / 65
p0 218.8 ± 0.1926
250
240
230
220
210
200

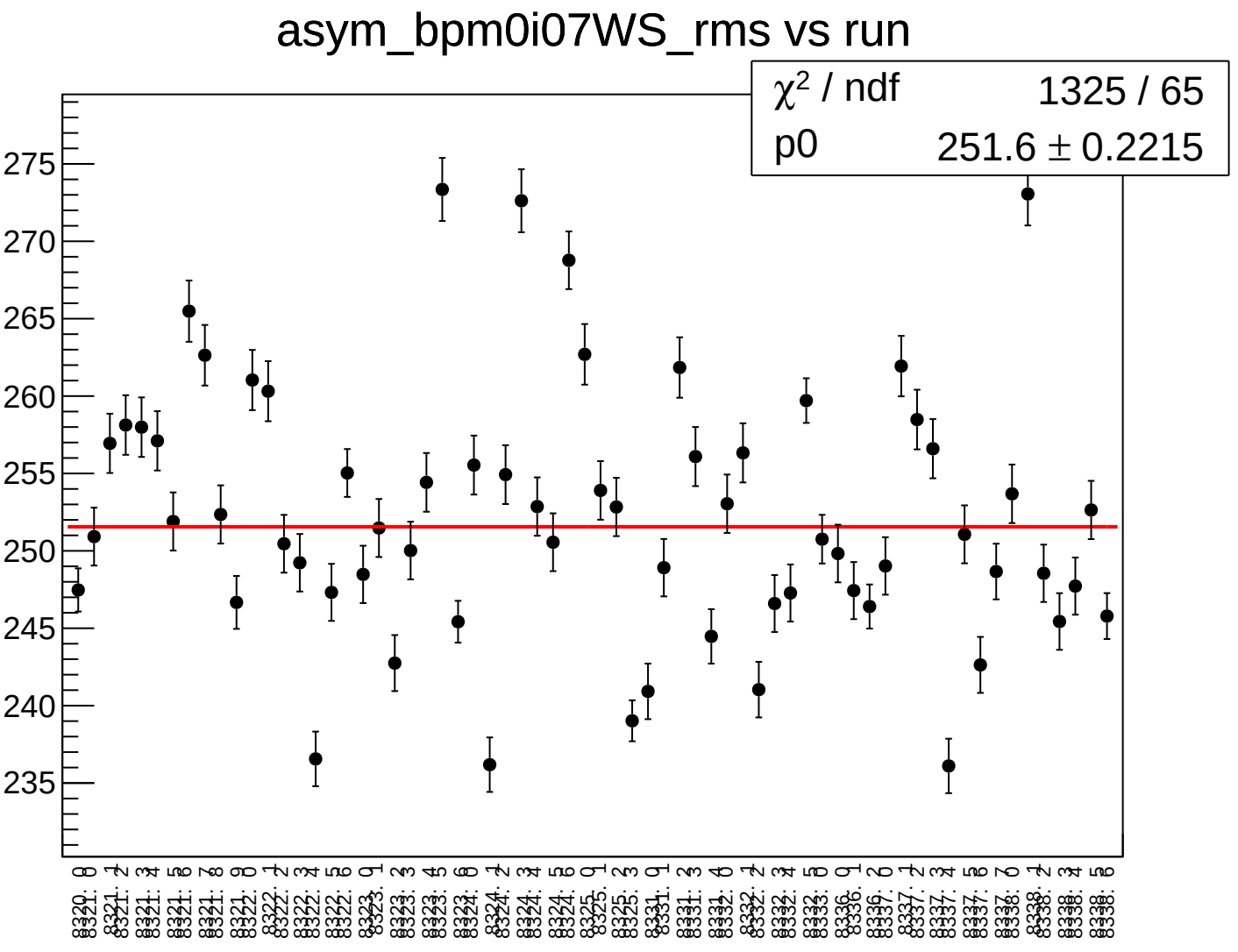

asym_bpm0i05WS_mean vs run
χ² / ndf 1810 / 65
p0 −1.832e+04 ± 301.3
10000
0
−10000
−20000
−30000
−40000
pull
Entries 66
Mean 1216
Std Dev 1203

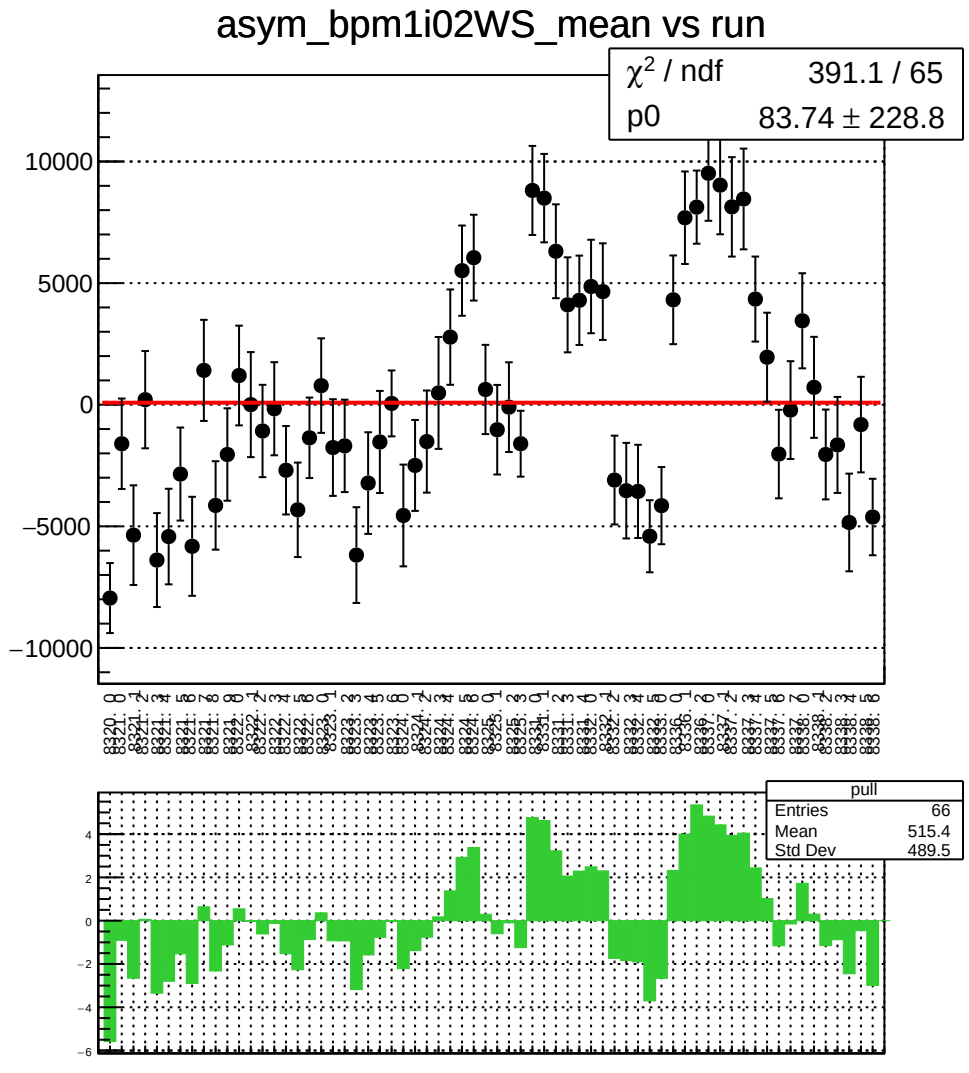

pull1D
Entries 66
Mean −1.608
Std Dev 3.693

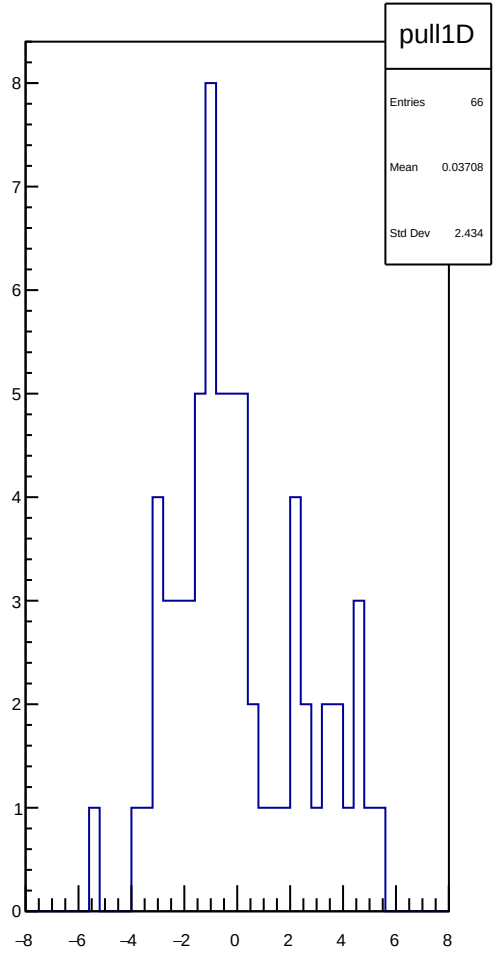

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1721 / 65
p0 242 ± 0.2131
270
260
250
240
230

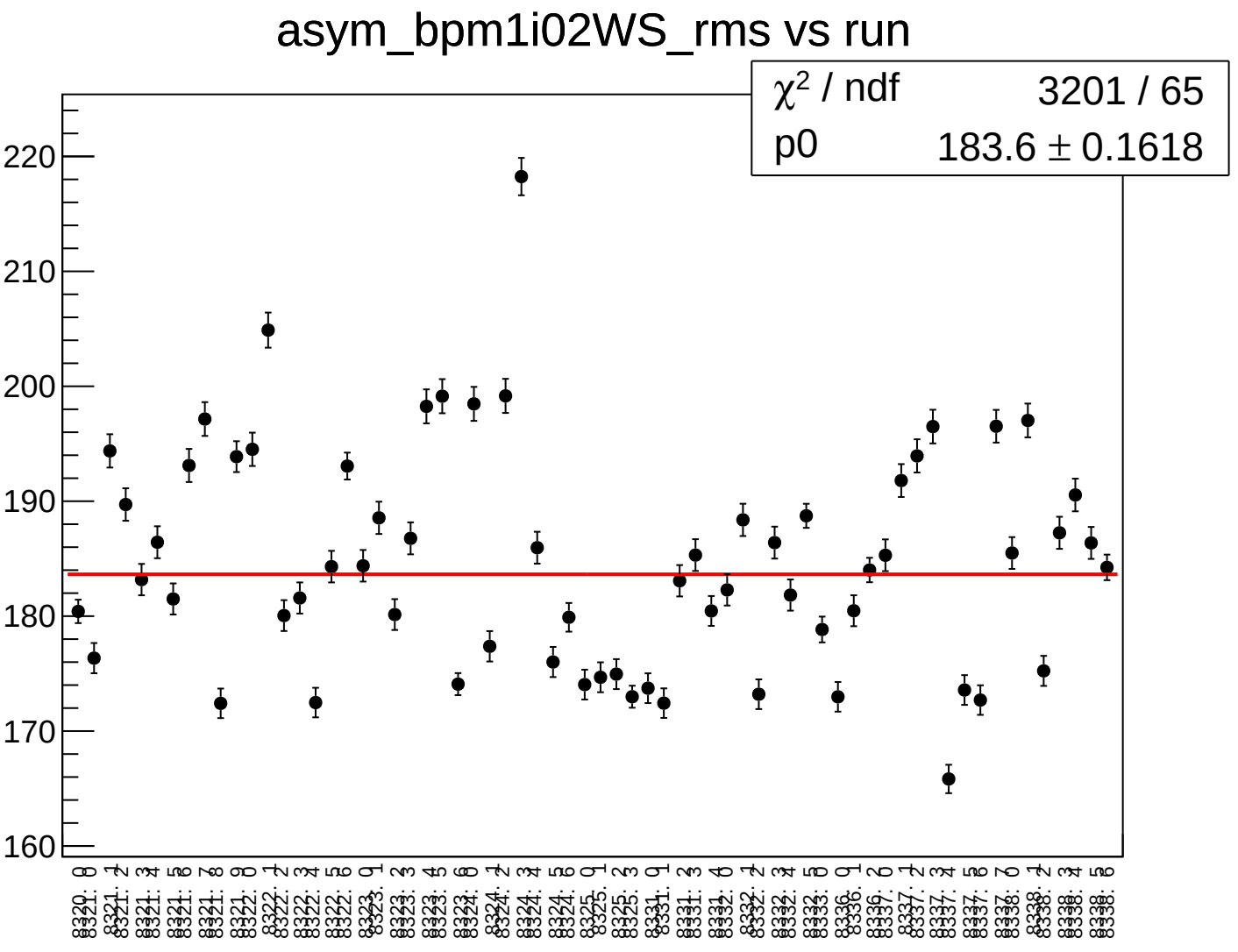

asym_bpm0i07WS_mean vs run
χ² / ndf 794.6 / 65
p0 −1.016e+04 ± 313.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 66
Mean 1499
Std Dev 1491

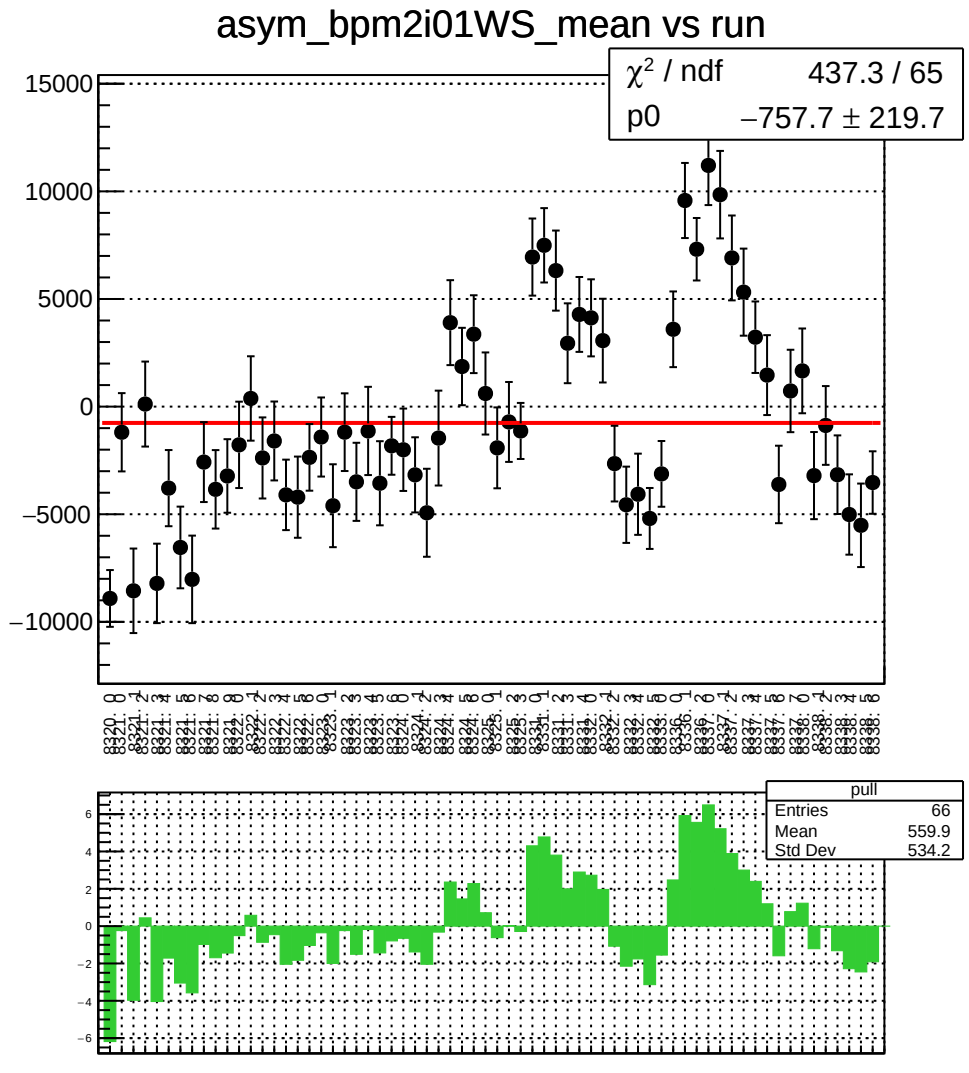

pull1D
Entries 66
Mean 0.007964
Std Dev 3.47

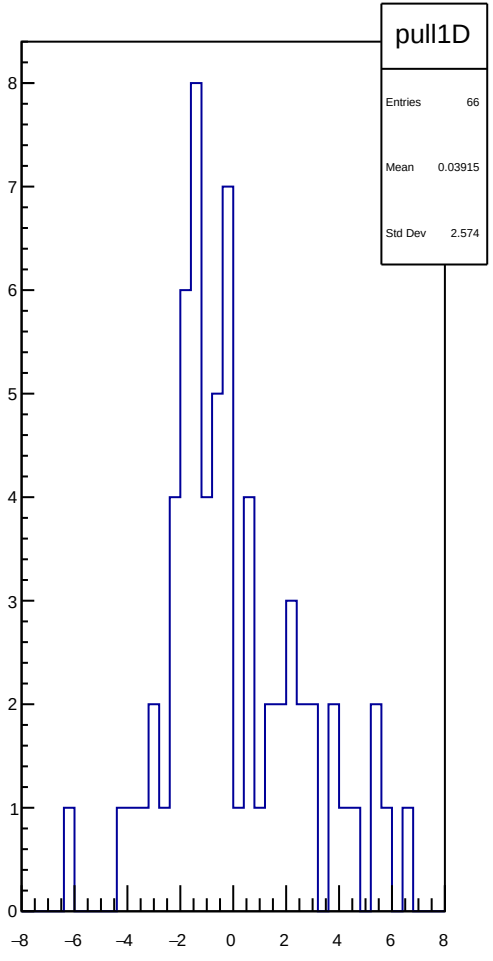

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1325 / 65
p0 251.6 ± 0.2215
275
270
265
260
255
250
245
240
235

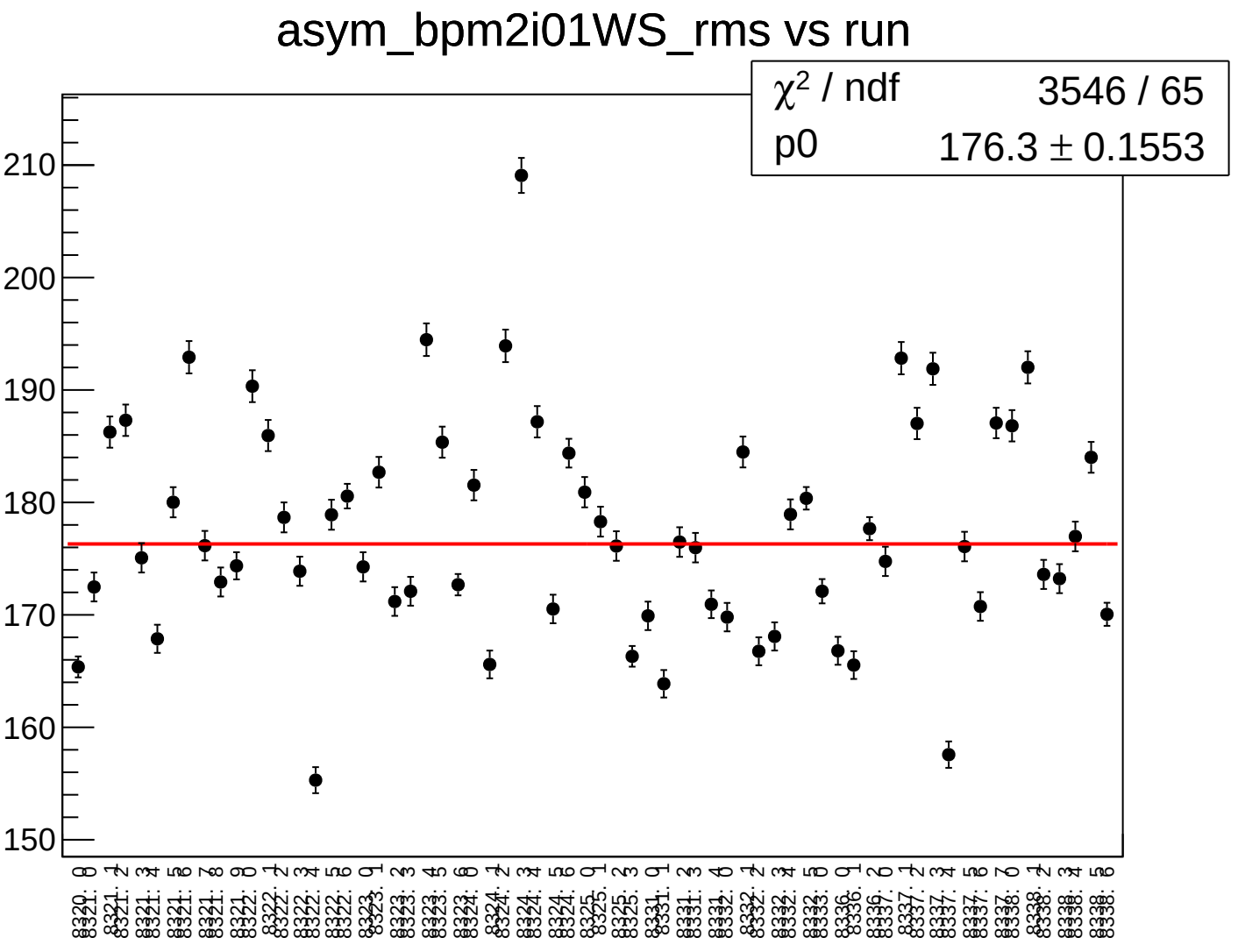

asym_bpm1i02WS_mean vs run
χ² / ndf 391.1 / 65
p0 83.74 ± 228.8
pull
Entries 66
Mean 515.4
Std Dev 489.5

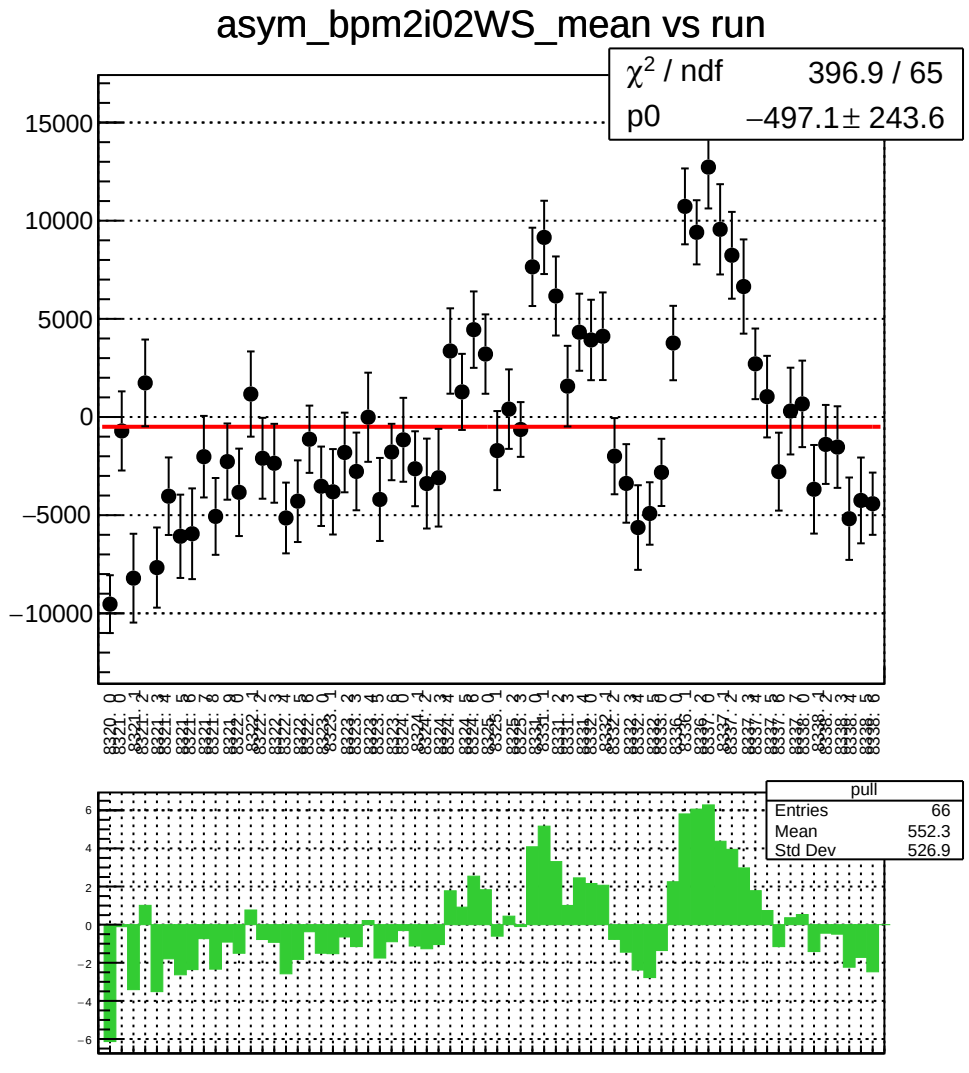

pull1D
Entries 66
Mean 0.03708
Std Dev 2.434

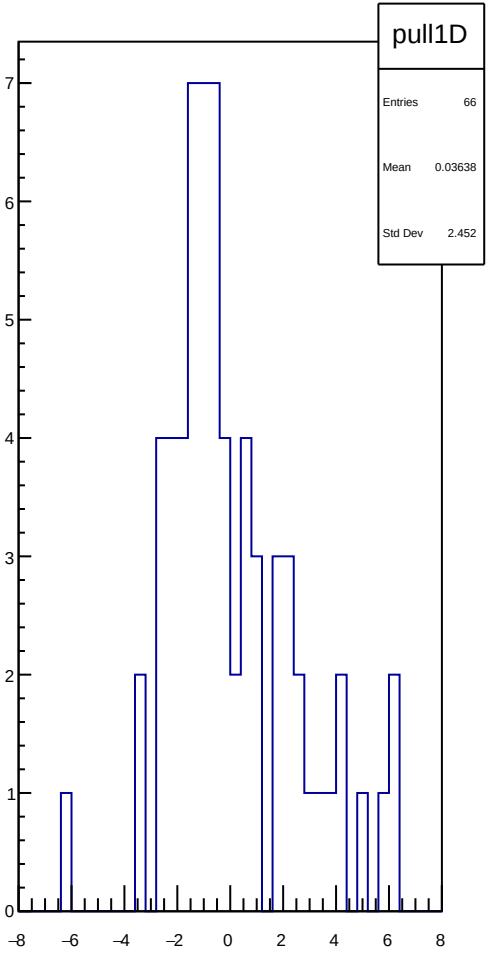

asym_bpm1i02WS_rms vs run
χ² / ndf 3201 / 65
p0 183.6 ± 0.1618
220
210
200
190
180
170
160

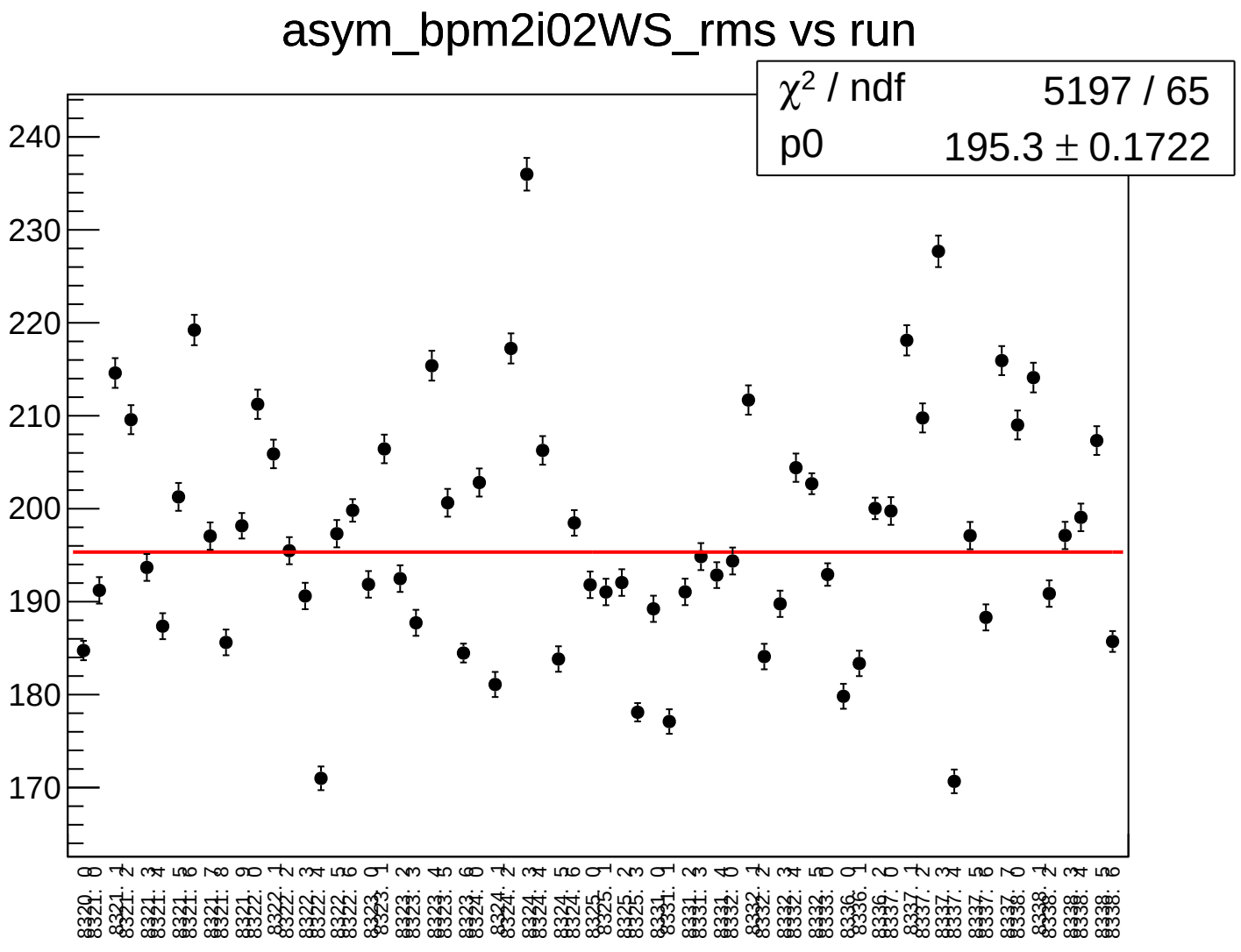

asym_bpm2i01WS_mean vs run
χ² / ndf 437.3 / 65
p0 −757.7 ± 219.7
15000
10000
5000
0
−5000
−10000
pull
Entries 66
Mean 559.9
Std Dev 534.2
6
4
2
0
−2
−4
−6

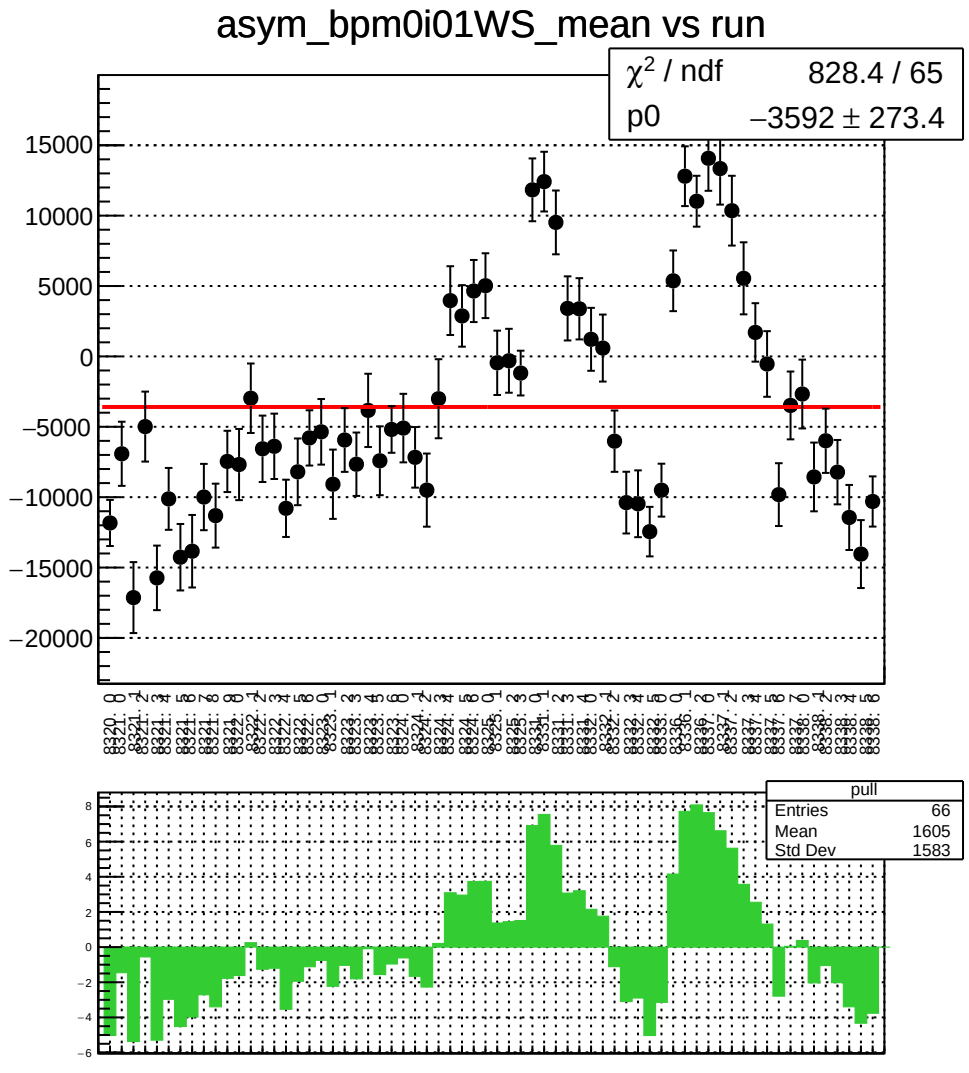

pull1D
Entries 66
Mean 0.03915
Std Dev 2.574
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

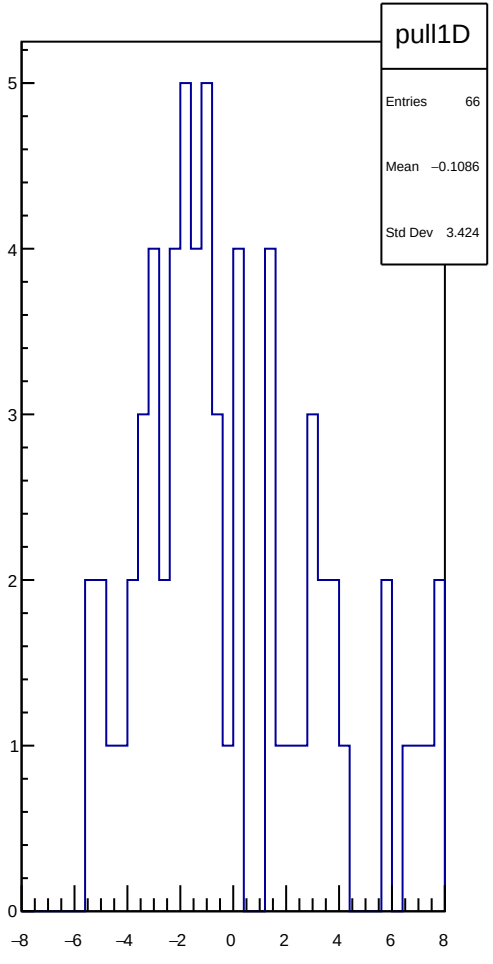

asym_bpm2i01WS_rms vs run
χ² / ndf 3546 / 65
p0 176.3 ± 0.1553
210
200
190
180
170
160
150

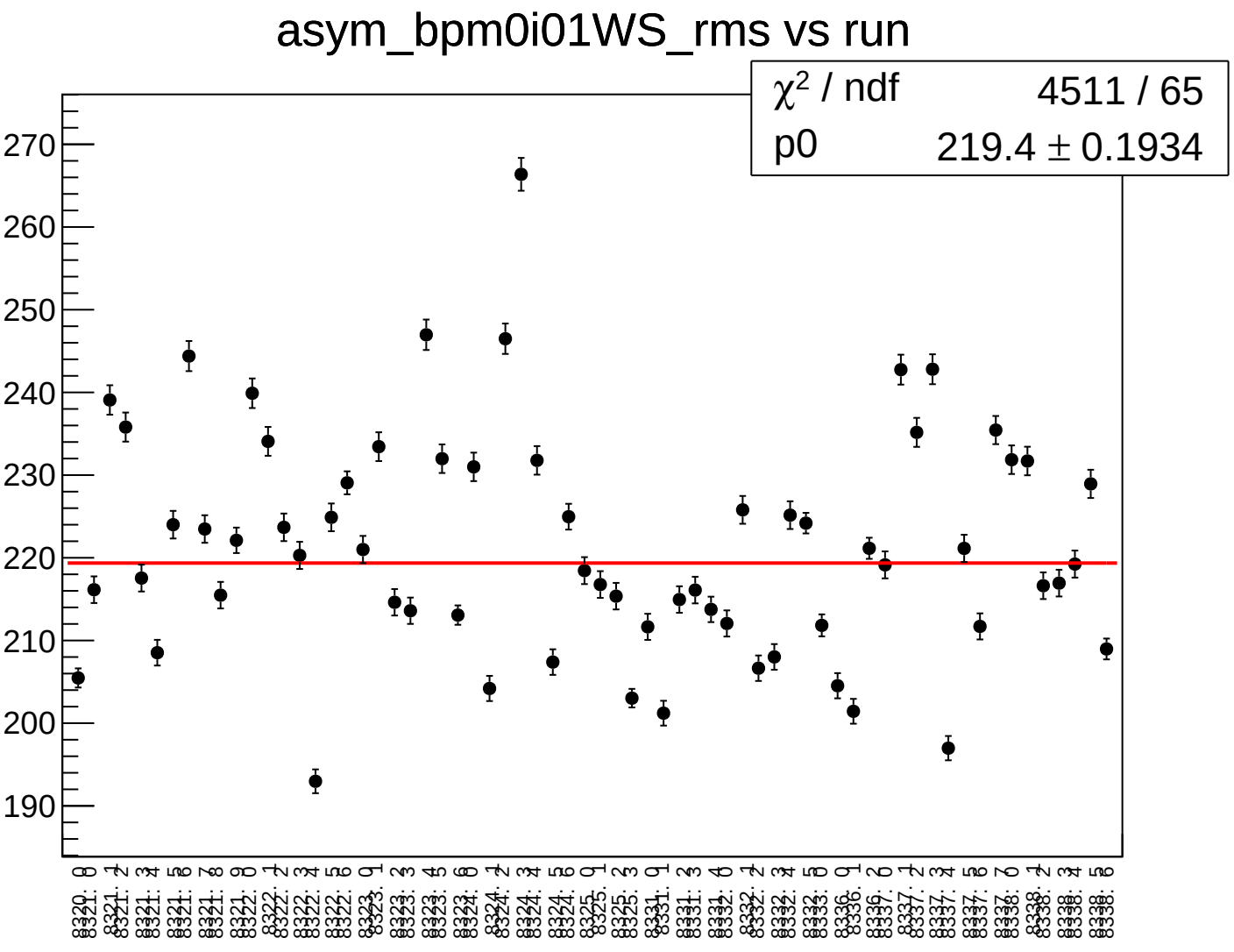

asym_bpm2i02WS_mean vs run
χ² / ndf 396.9 / 65
p0 −497.1± 243.6
15000
10000
5000
0
−5000
−10000
pull
Entries 66
Mean 552.3
Std Dev 526.9
6
4
2
0
−2
−4
−6

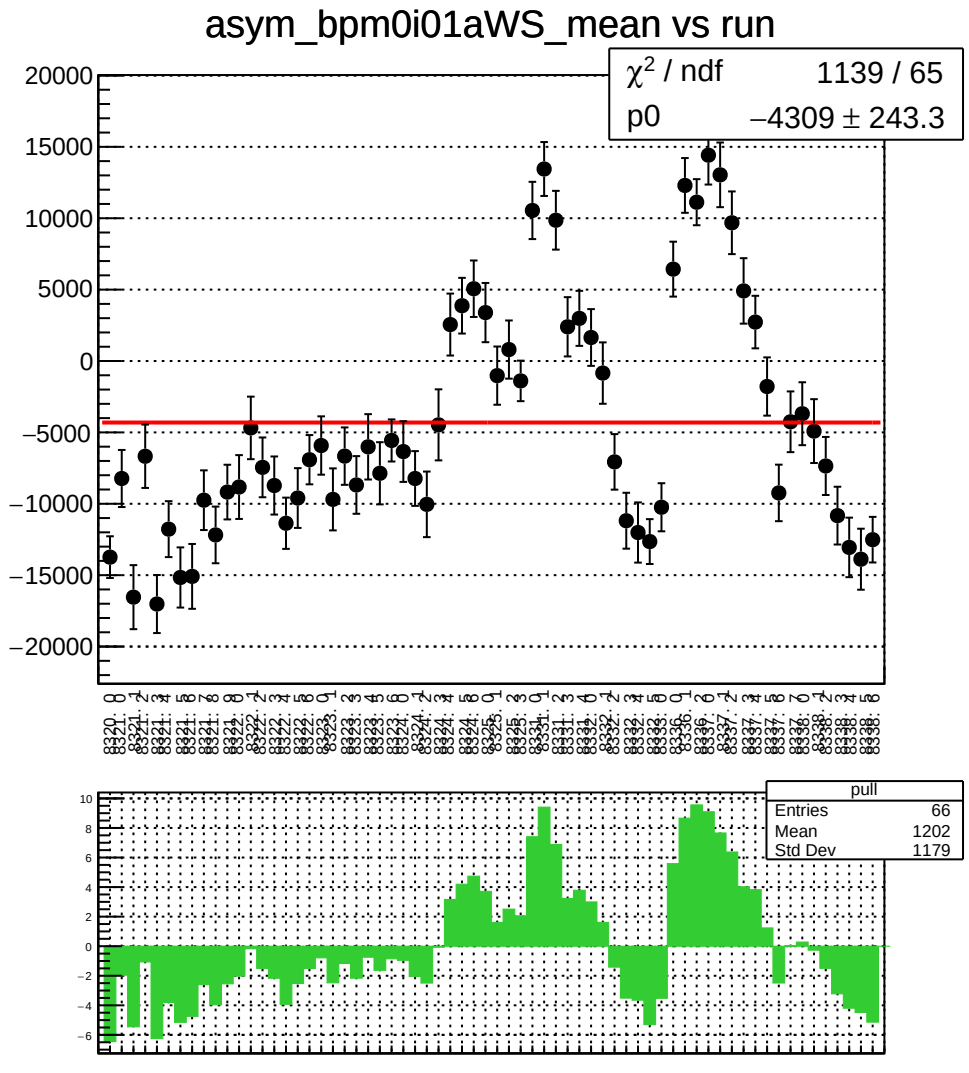

pull1D
Entries 66
Mean 0.03638
Std Dev 2.452
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

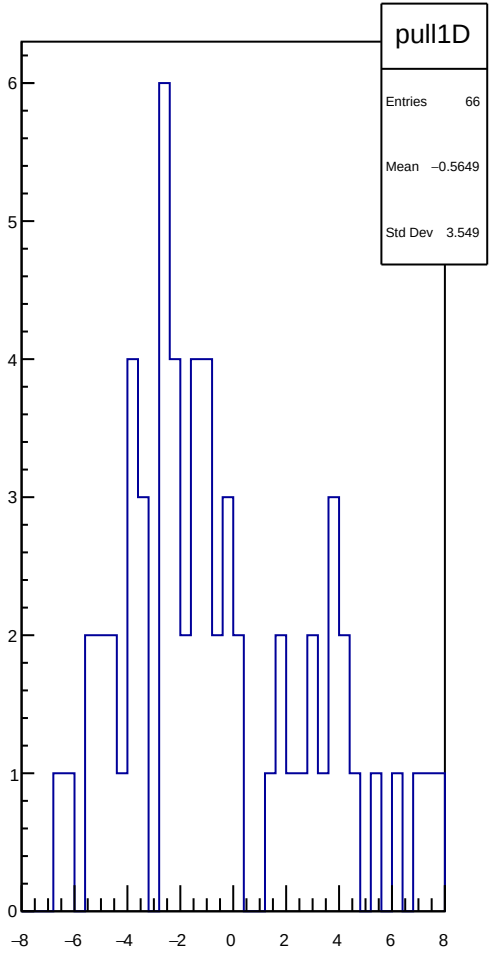

asym_bpm2i02WS_rms vs run
χ^2 / ndf 5197 / 65
p0 195.3 ± 0.1722
240
230
220
210
200
190
180
170

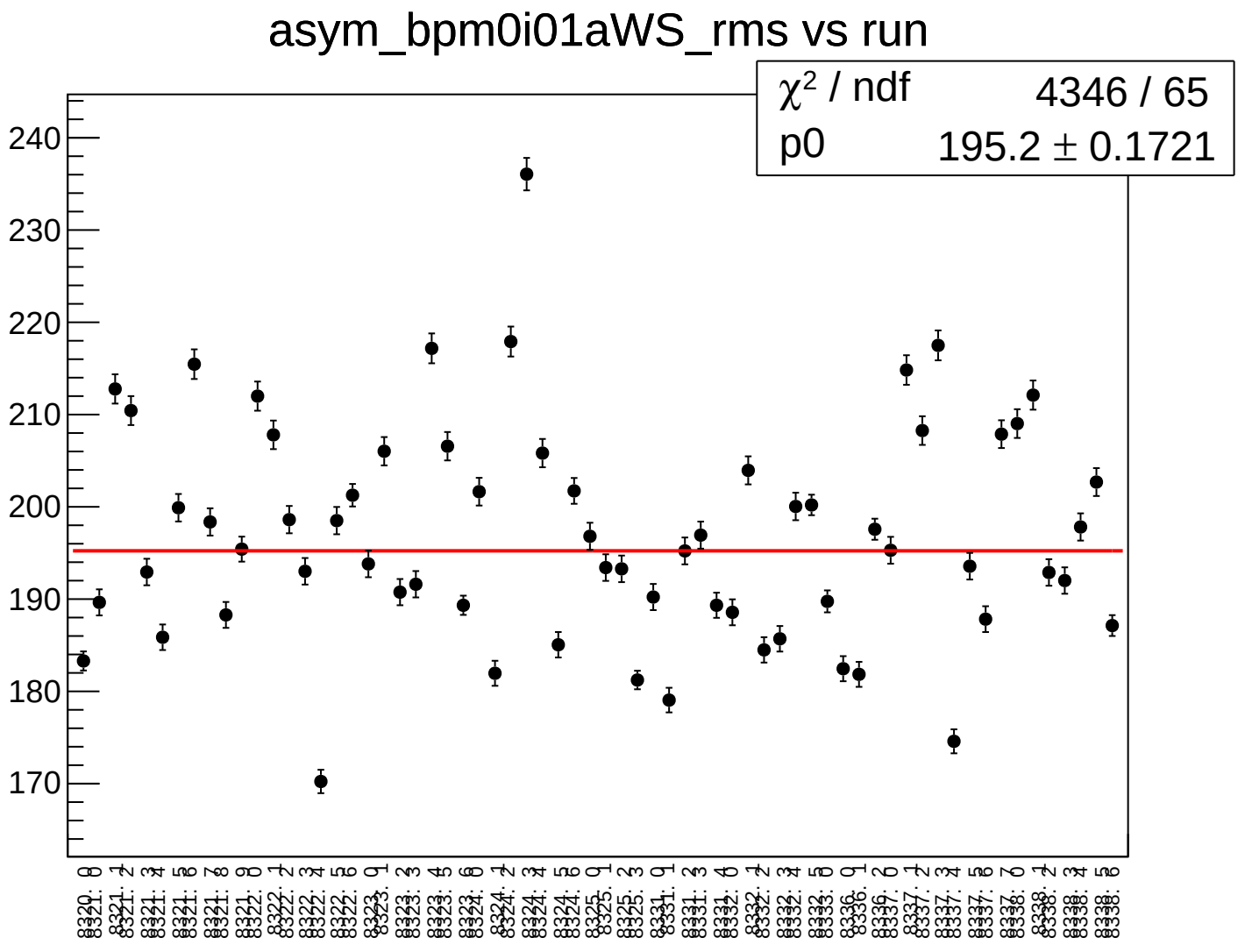

asym_bpm0i01WS_mean vs run
χ² / ndf 828.4 / 65
p0 −3592 ± 273.4
pull
Entries 66
Mean 1605
Std Dev 1583

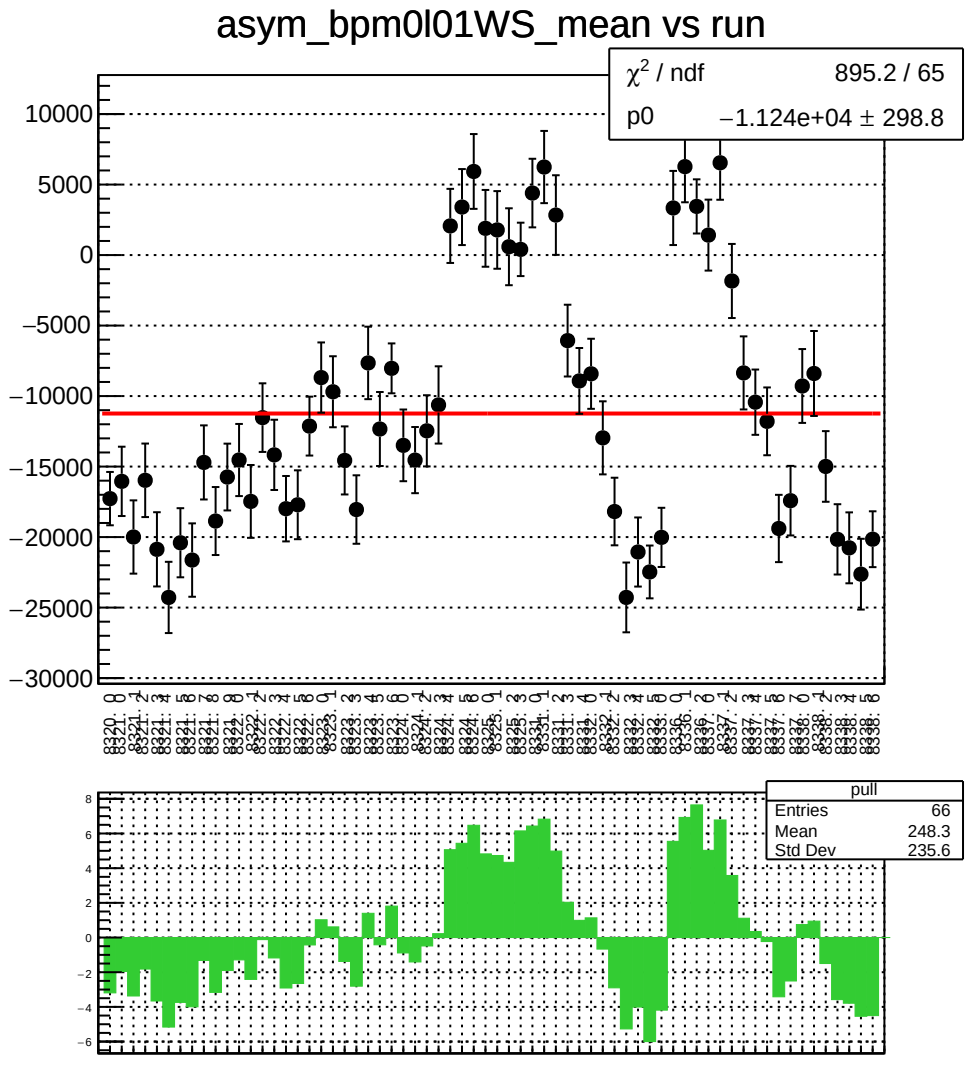

pull1D
Entries 66
Mean −0.1086
Std Dev 3.424

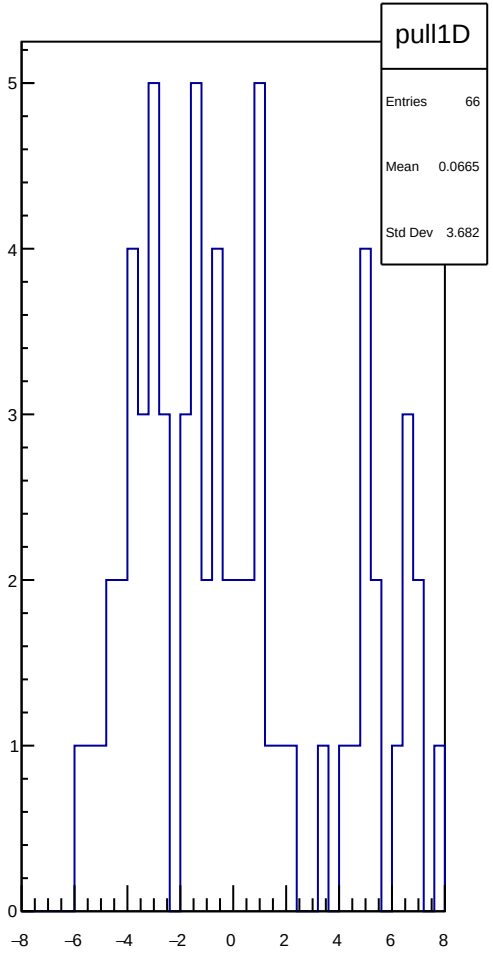

asym_bpm0i01WS_rms vs run
χ² / ndf 4511 / 65
p0 219.4 ± 0.1934
270
260
250
240
230
220
210
200
190

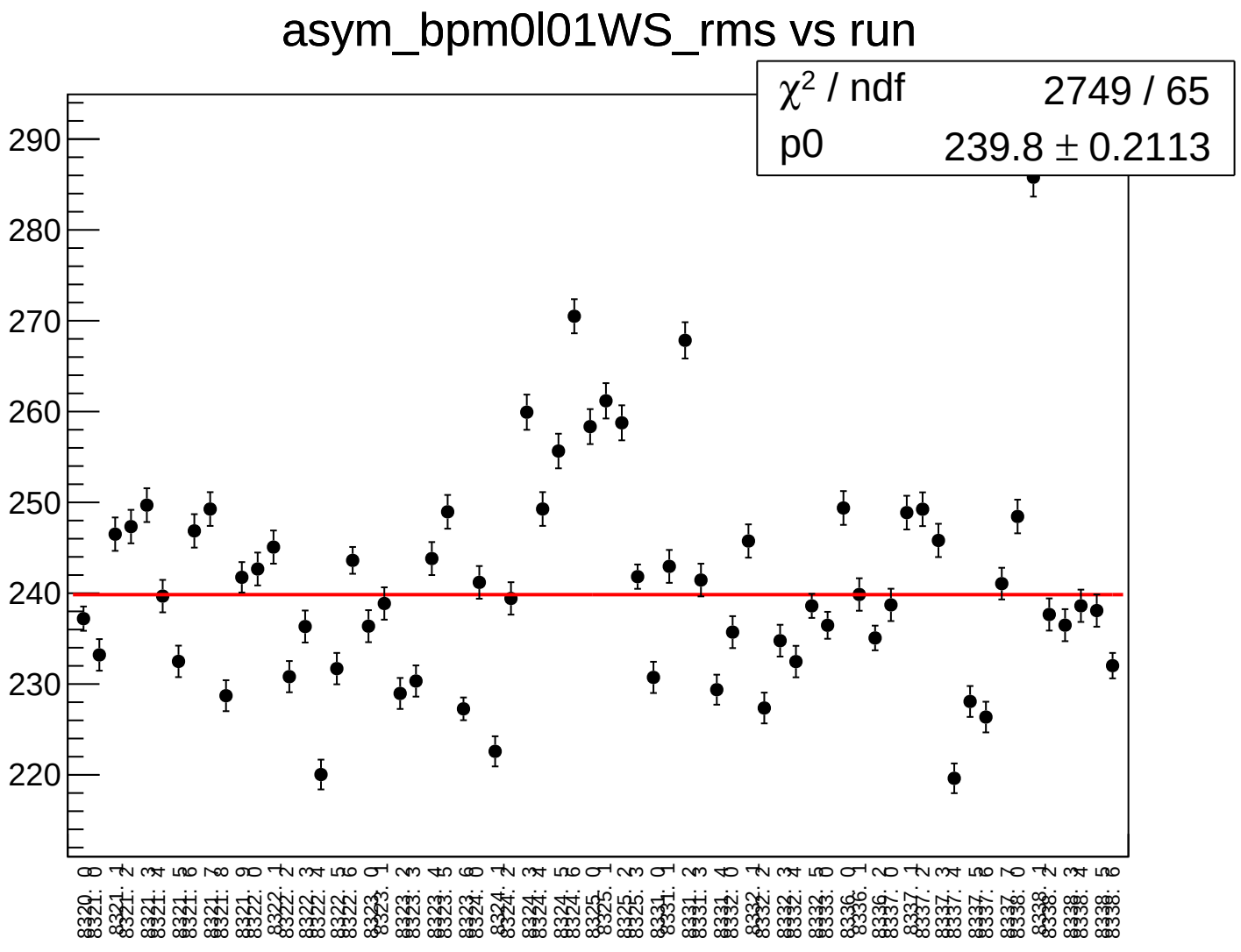

asym_bpm0i01aWS_mean vs run
χ² / ndf 1139 / 65
p0 −4309 ± 243.3
pull
Entries 66
Mean 1202
Std Dev 1179

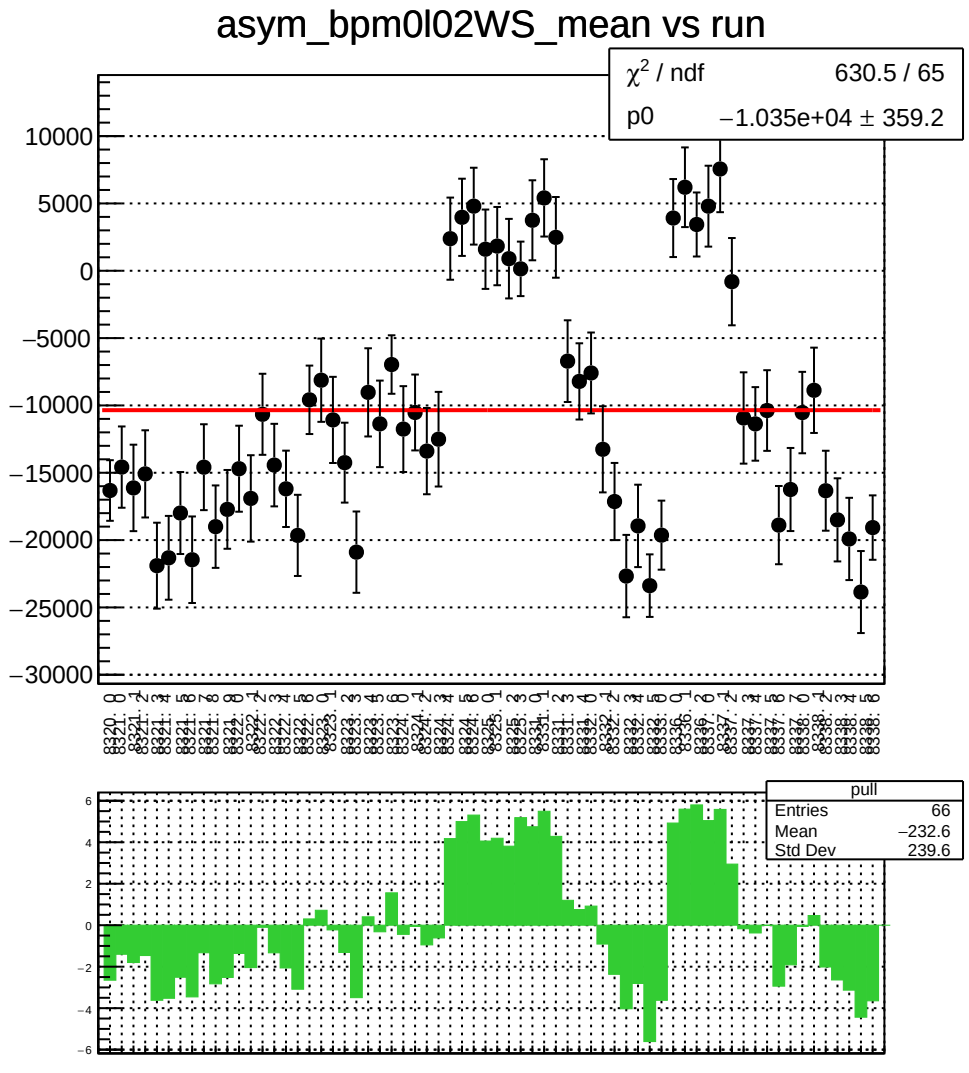

pull1D
Entries 66
Mean −0.5649
Std Dev 3.549

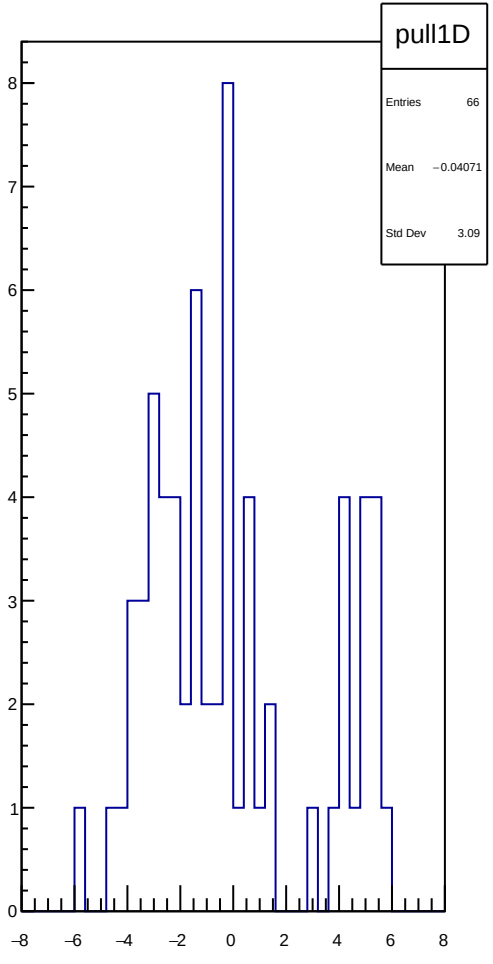

asym_bpm0i01aWS_rms vs run
χ² / ndf 4346 / 65
p0 195.2 ± 0.1721
240
230
220
210
200
190
180
170

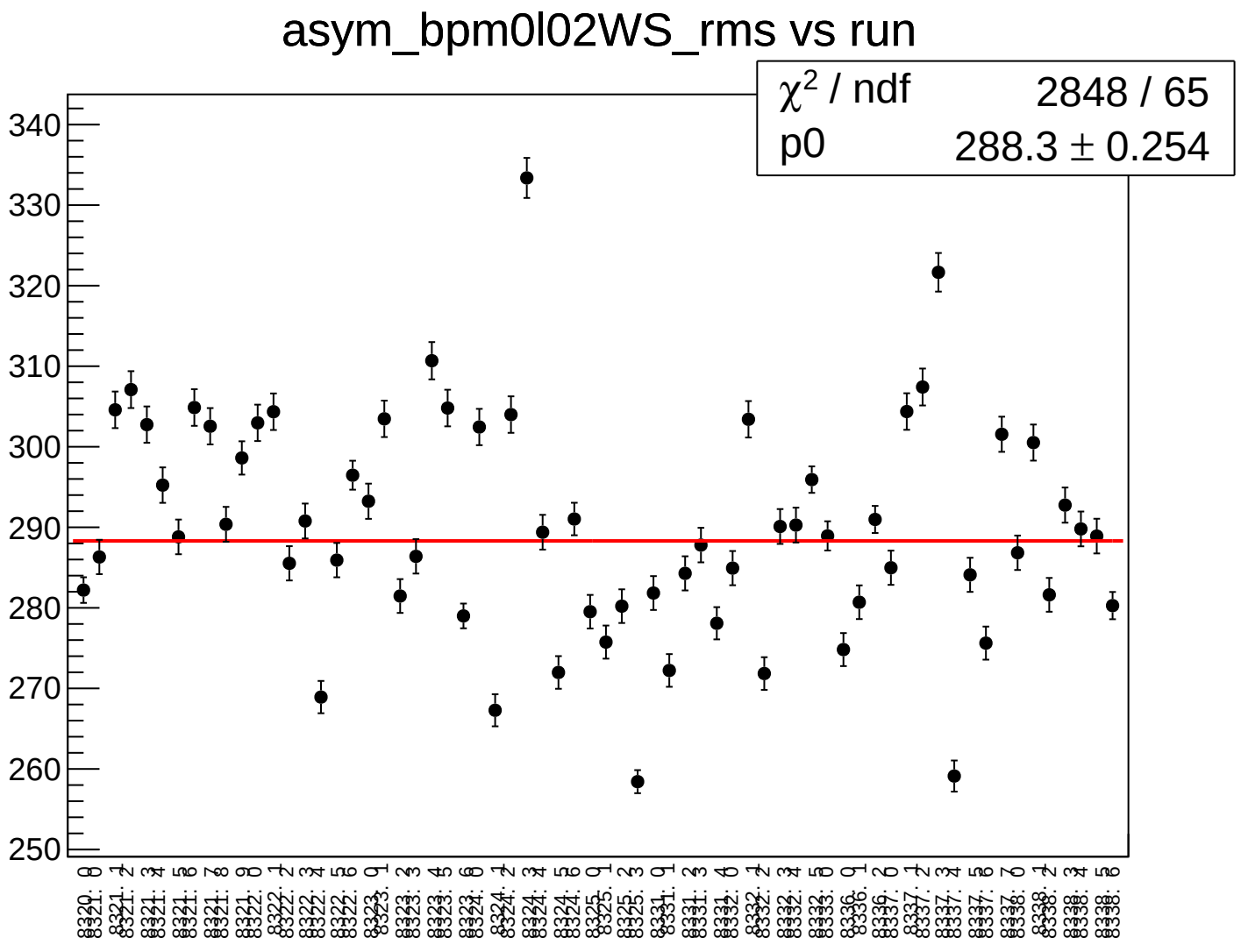

asym_bpm0l01WS_mean vs run
χ² / ndf 895.2 / 65
p0 −1.124e+04 ± 298.8
pull
Entries 66
Mean 248.3
Std Dev 235.6

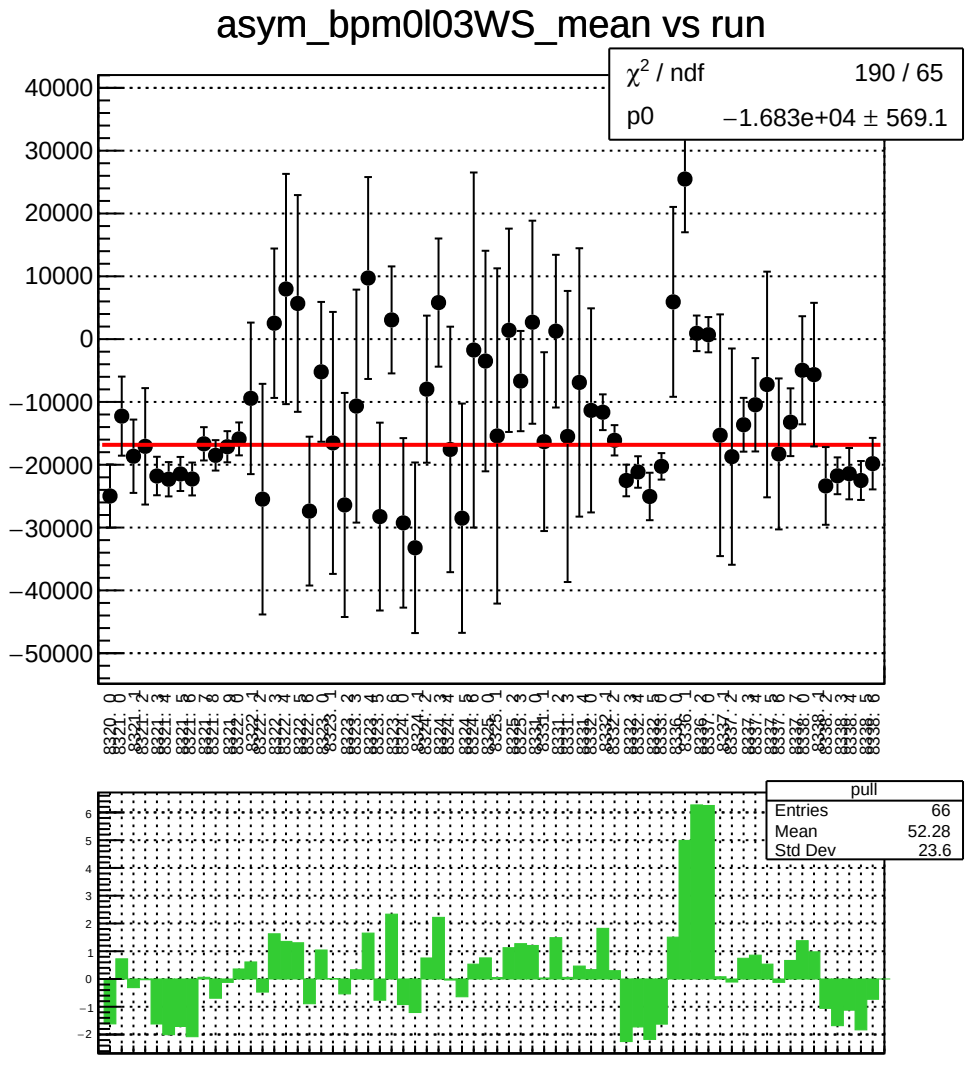

pull1D
Entries 66
Mean 0.0665
Std Dev 3.682

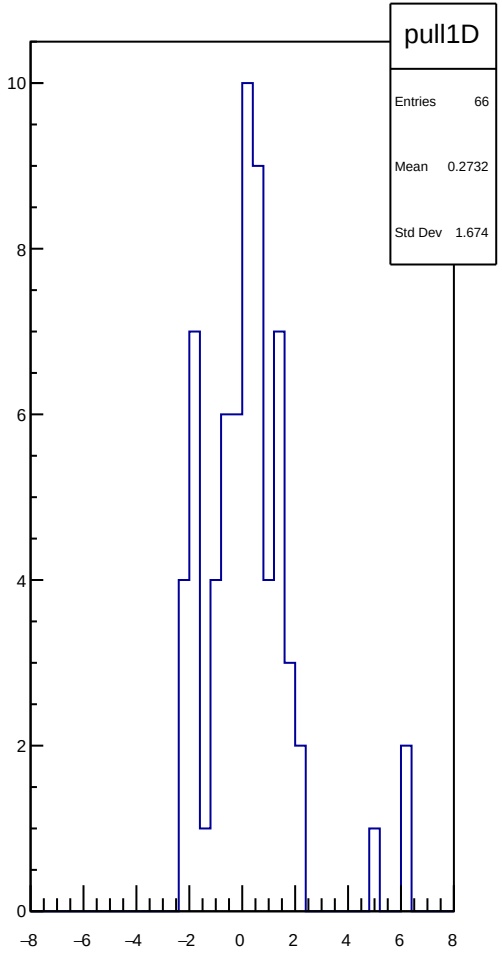

asym_bpm0l01WS_rms vs run
χ² / ndf 2749 / 65
p0 239.8 ± 0.2113
290
280
270
260
250
240
230
220

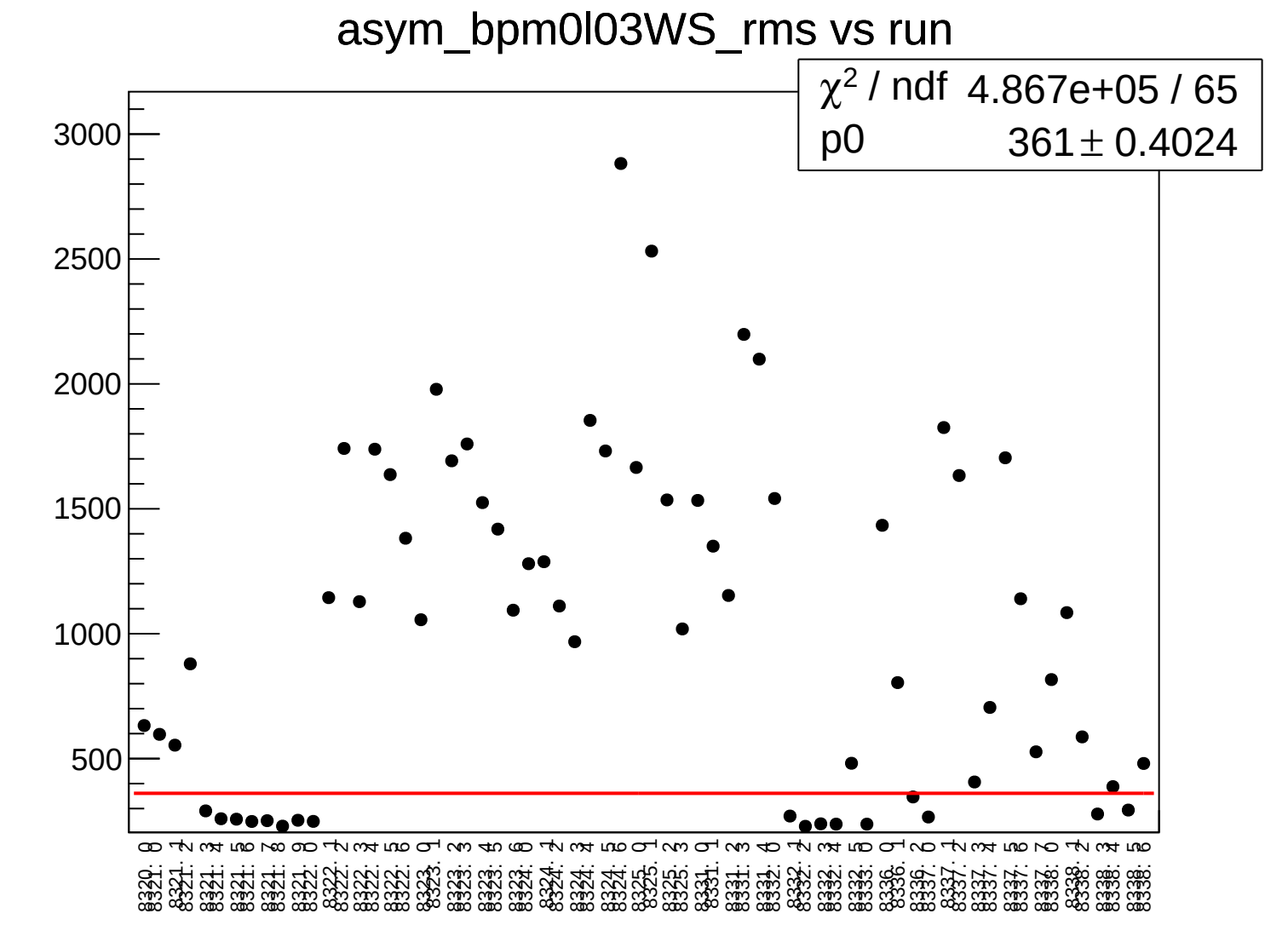

asym_bpm0l02WS_mean vs run
χ² / ndf 630.5 / 65
p0 −1.035e+04 ± 359.2
pull
Entries 66
Mean −232.6
Std Dev 239.6

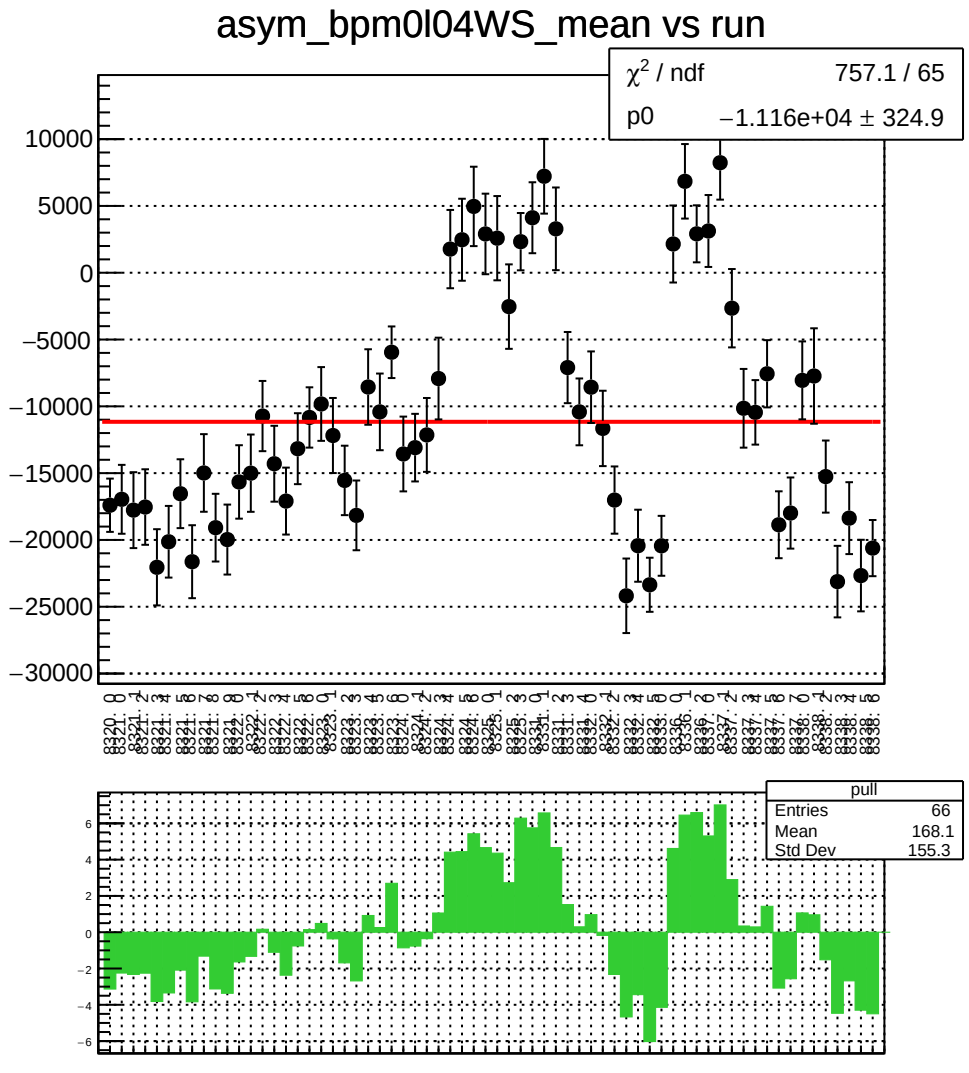

pull1D
Entries 66
Mean −0.04071
Std Dev 3.09

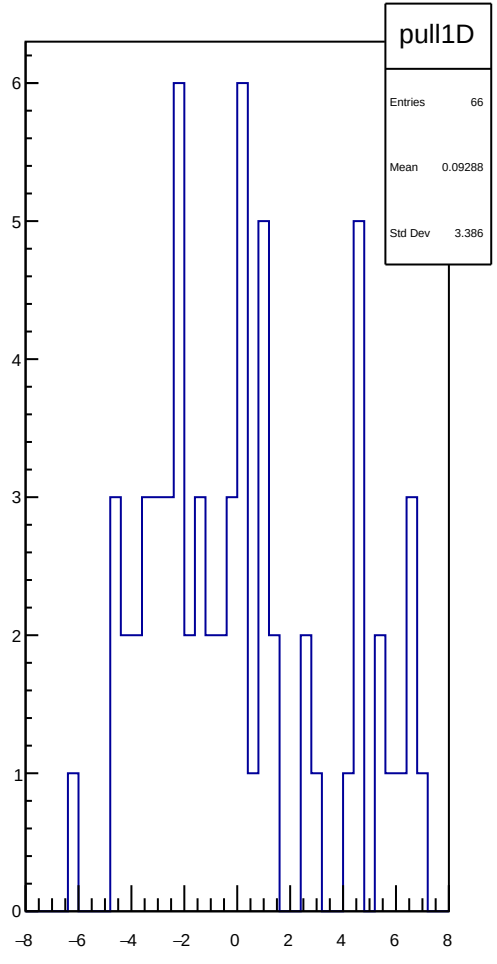

asym_bpm0l02WS_rms vs run
χ² / ndf 2848 / 65
p0 288.3 ± 0.254
340
330
320
310
300
290
280
270
260
250

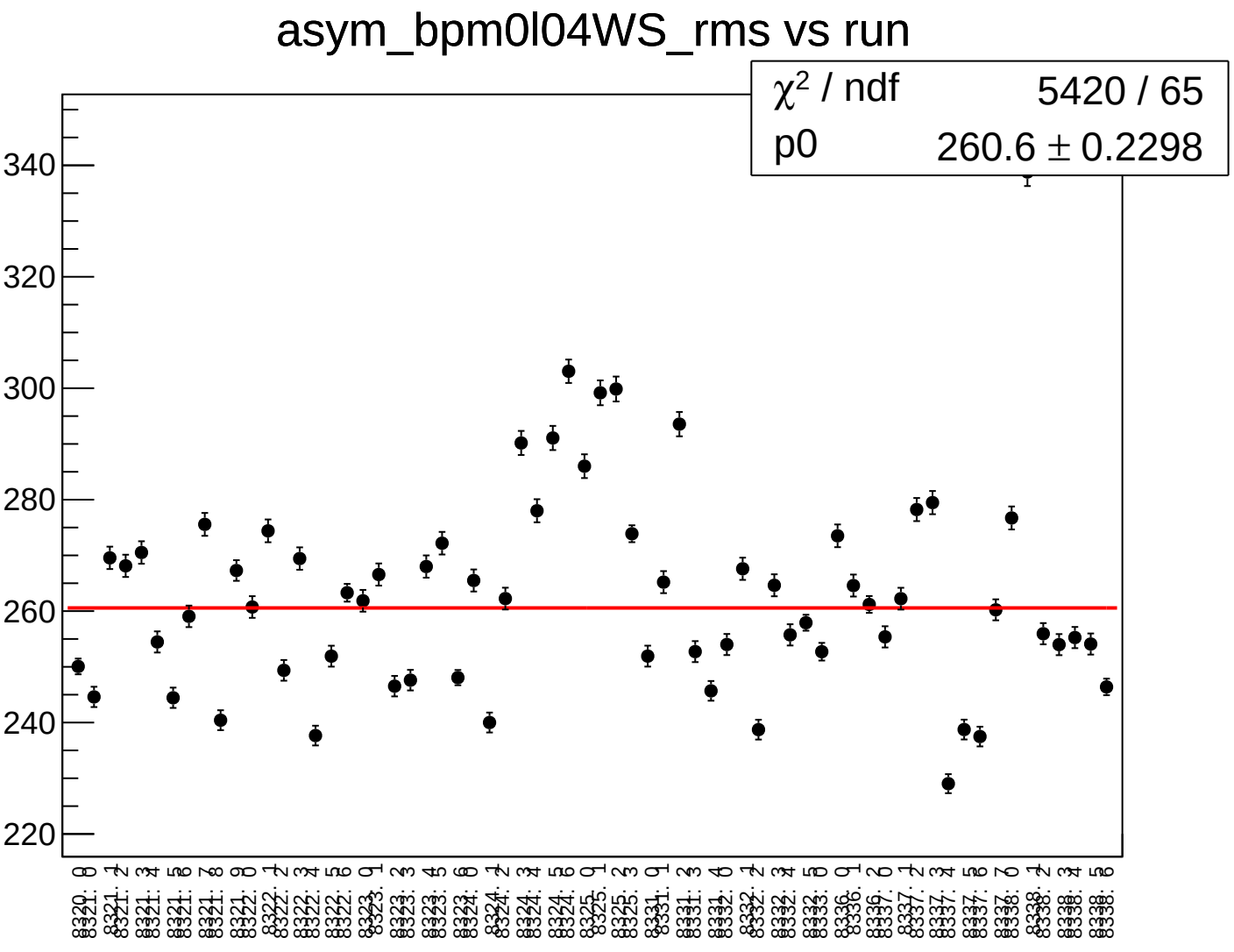

asym_bpm0l03WS_mean vs run
χ² / ndf 190 / 65
p0 −1.683e+04 ± 569.1
pull
Entries 66
Mean 52.28
Std Dev 23.6

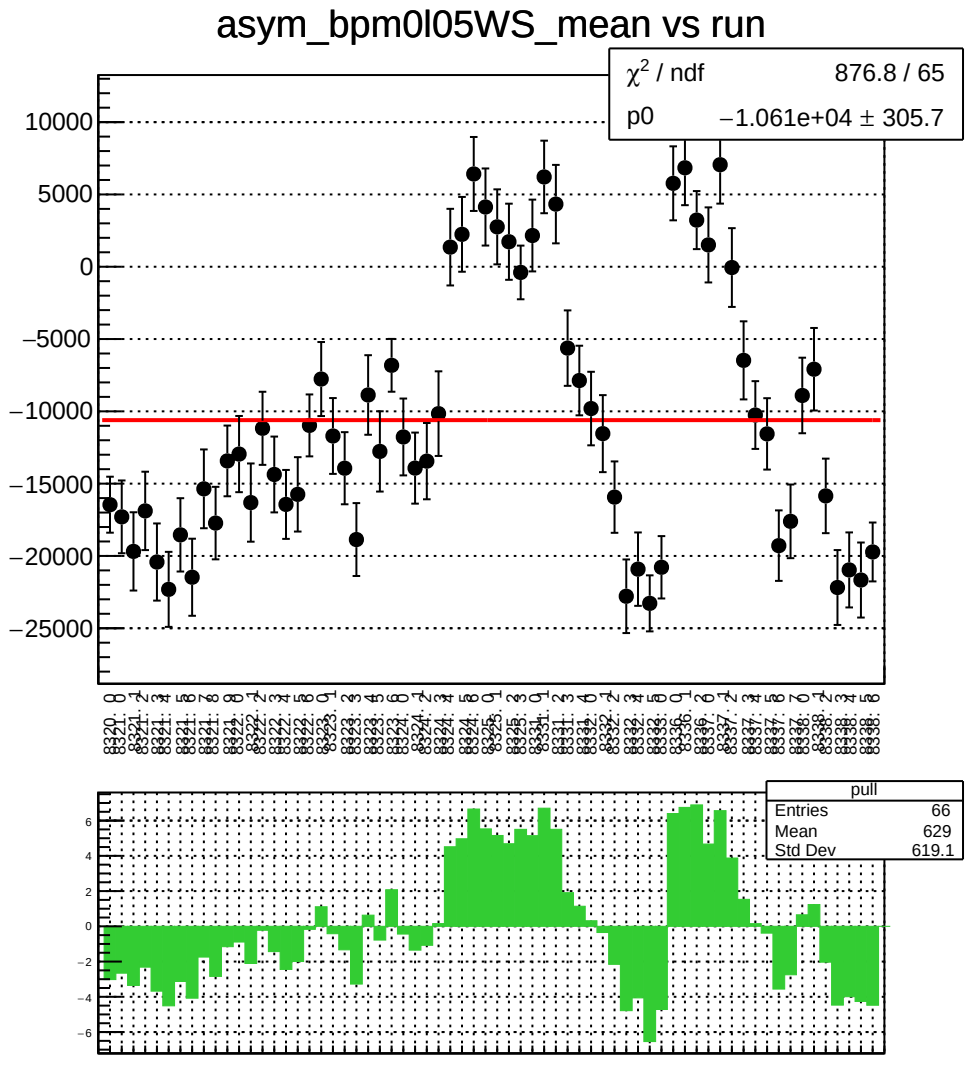

pull1D
Entries 66
Mean 0.2732
Std Dev 1.674

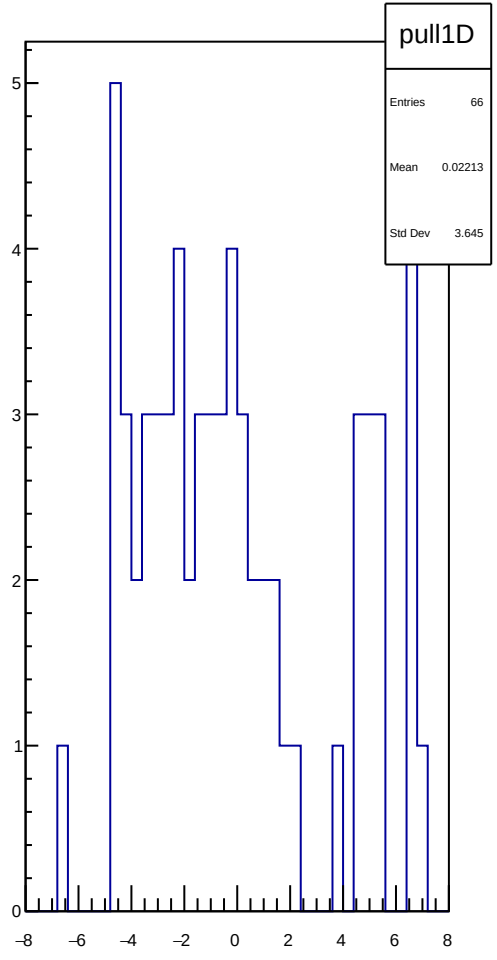

asym_bpm0l03WS_rms vs run
χ² / ndf 4.867e+05 / 65
p0 361 ± 0.4024
3000
2500
2000
1500
1000
500

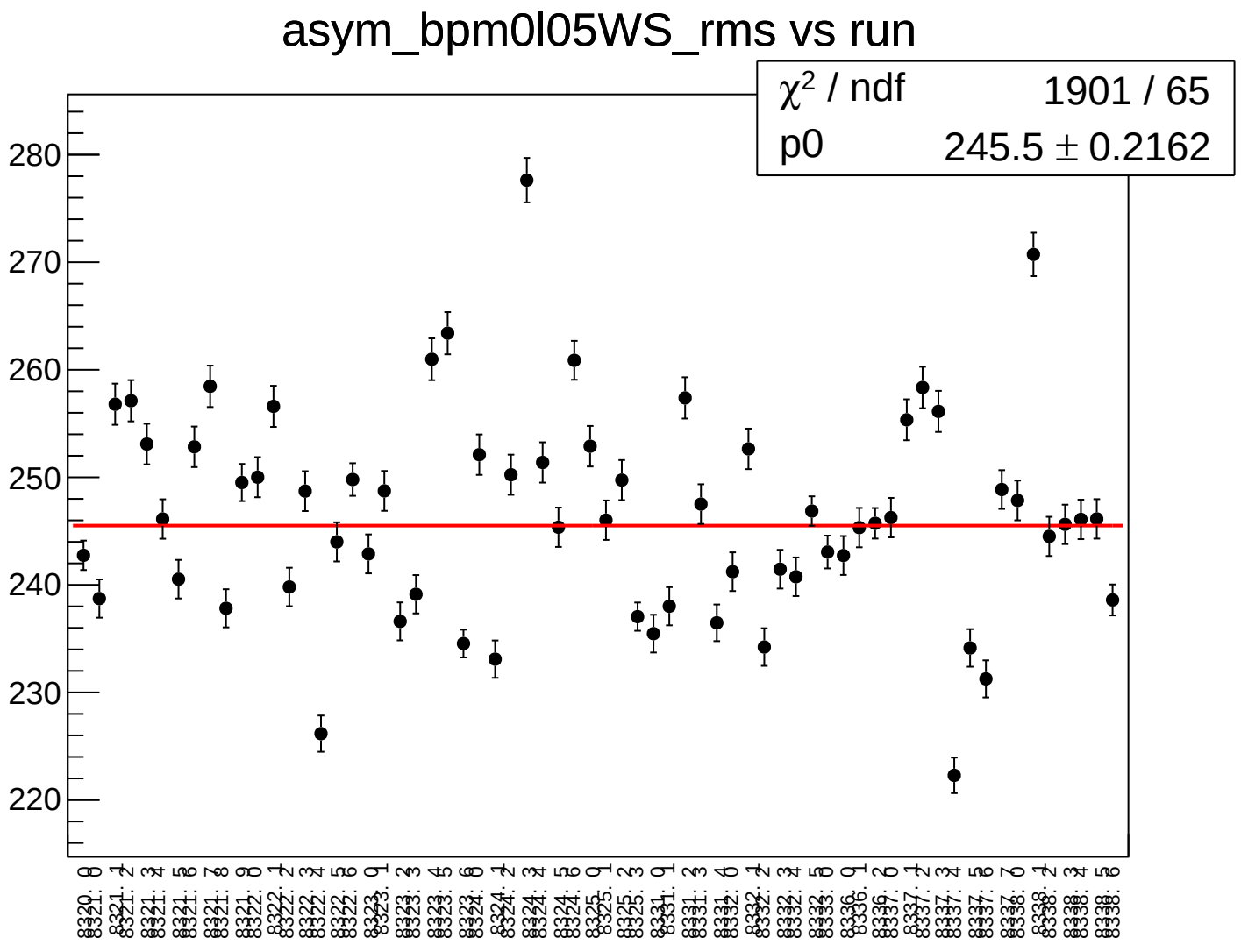

asym_bpm0l04WS_mean vs run
χ² / ndf 757.1 / 65
p0 −1.116e+04 ± 324.9
pull
Entries 66
Mean 168.1
Std Dev 155.3

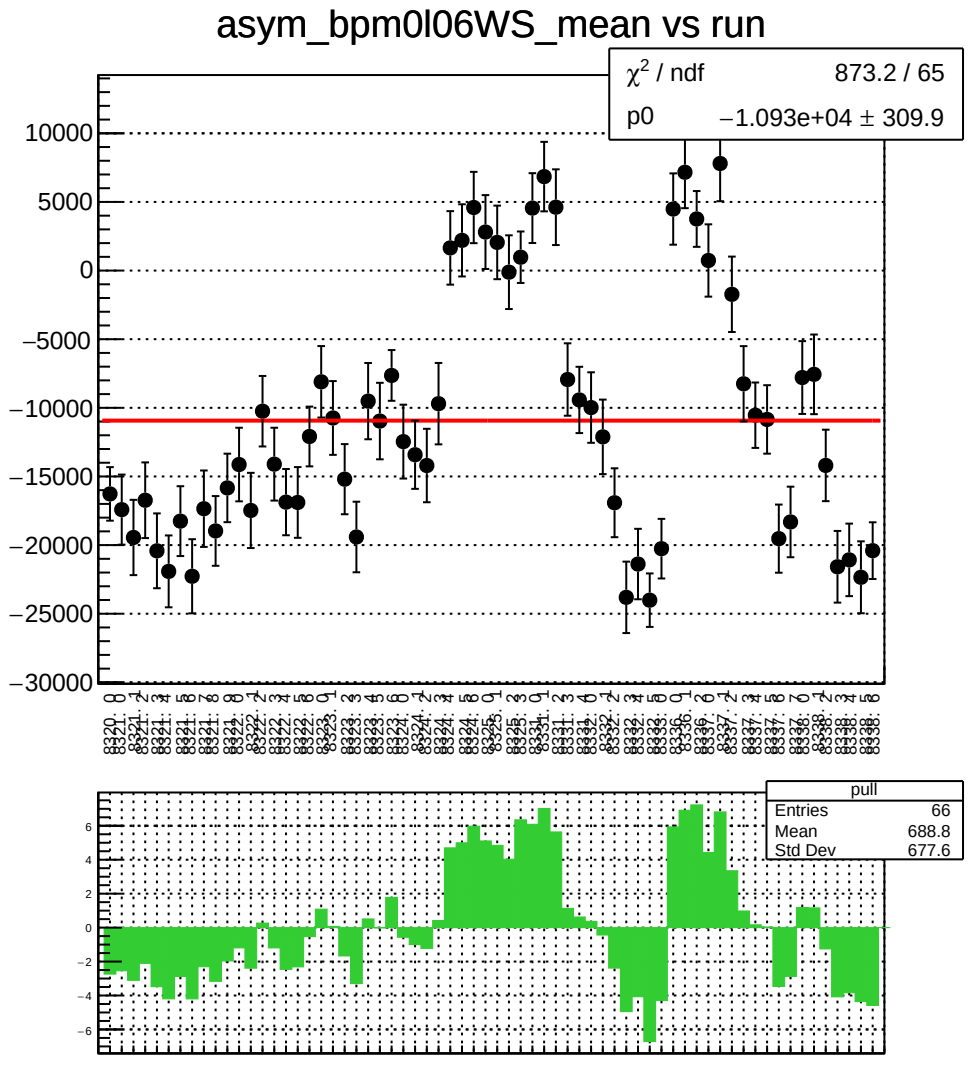

pull1D
Entries 66
Mean 0.09288
Std Dev 3.386

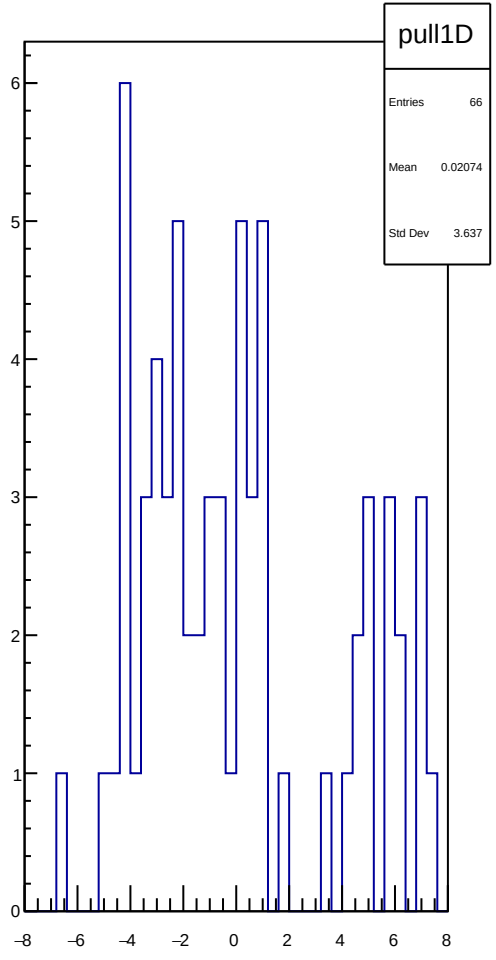

asym_bpm0l04WS_rms vs run
χ² / ndf 5420 / 65
p0 260.6 ± 0.2298
340
320
300
280
260
240
220

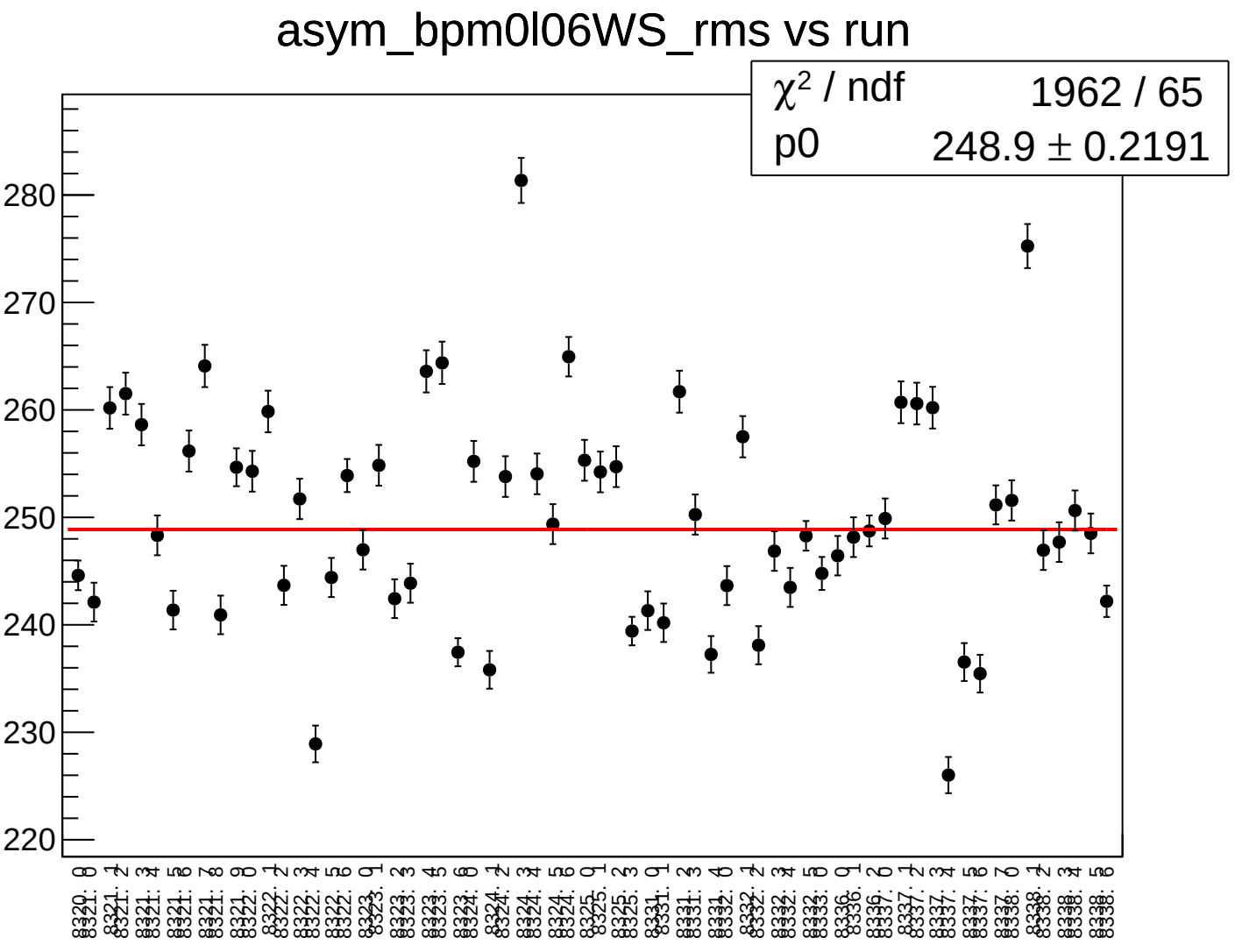

asym_bpm0l05WS_mean vs run
χ² / ndf 876.8 / 65
p0 −1.061e+04 ± 305.7
pull
Entries 66
Mean 629
Std Dev 619.1

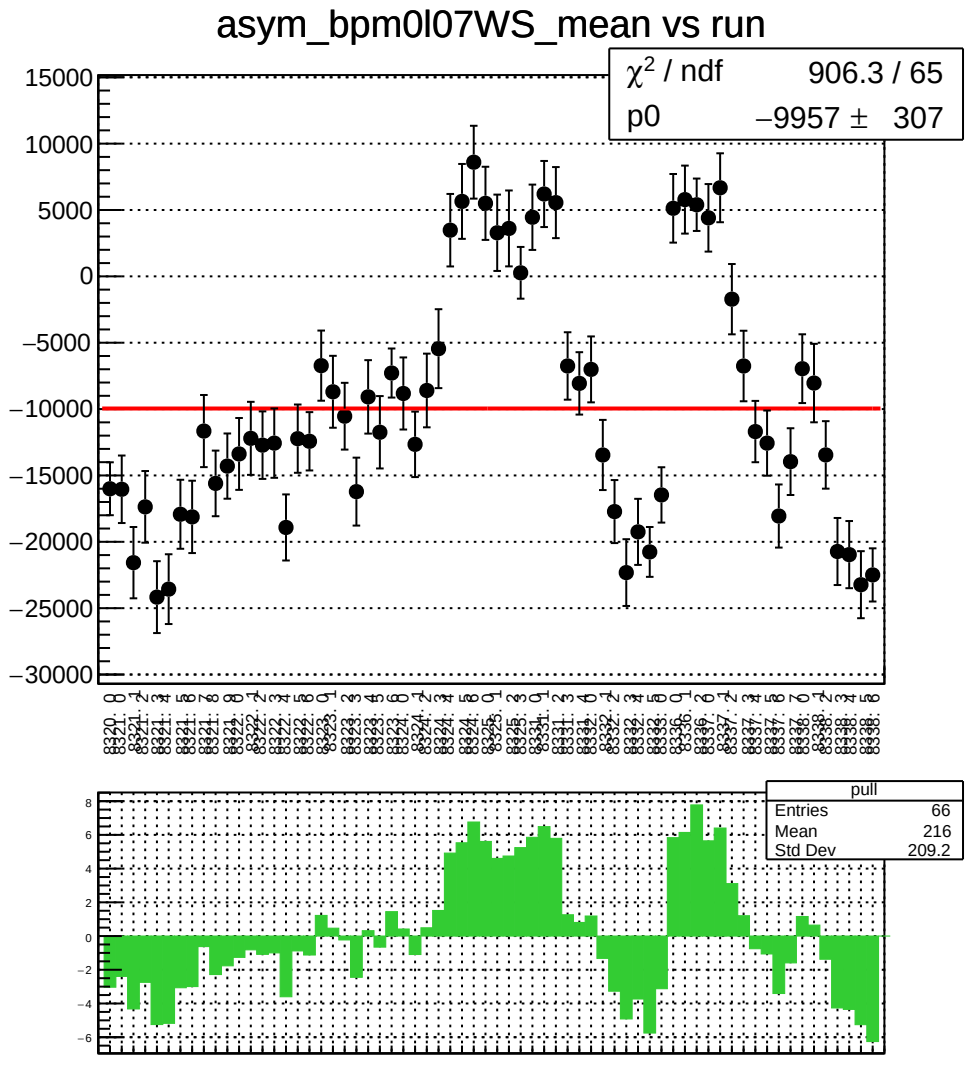

pull1D
Entries 66
Mean 0.02213
Std Dev 3.645

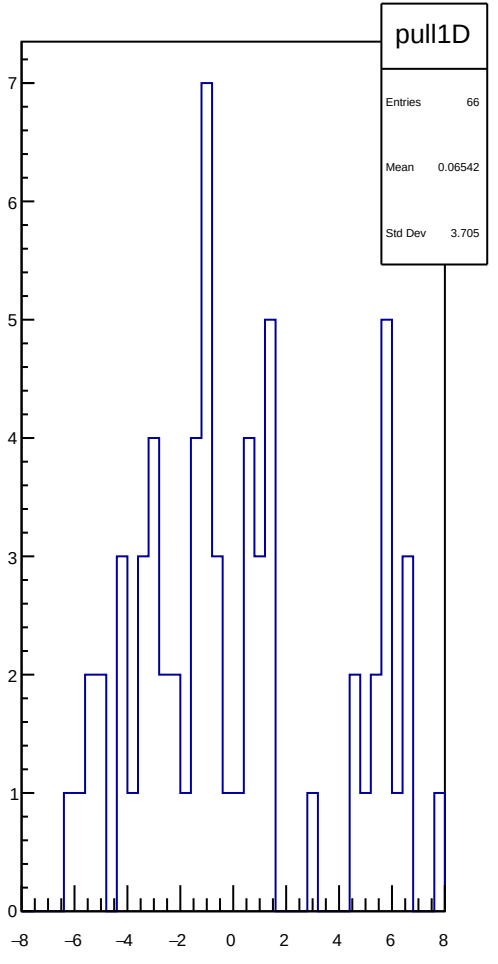

asym_bpm0l05WS_rms vs run
χ² / ndf 1901 / 65
p0 245.5 ± 0.2162
280
270
260
250
240
230
220

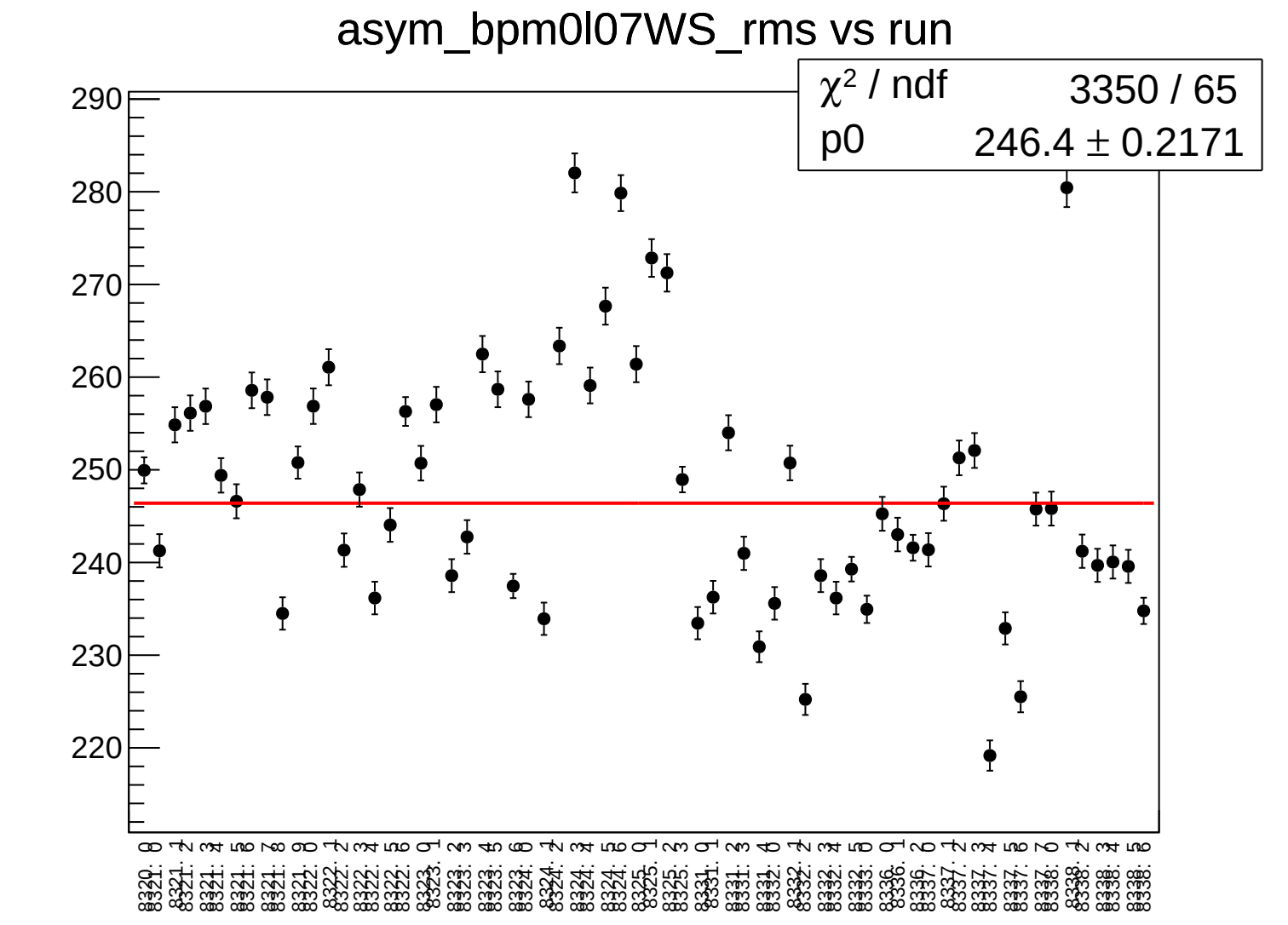

asym_bpm0l06WS_mean vs run
χ² / ndf 873.2 / 65
p0 −1.093e+04 ± 309.9
pull
Entries 66
Mean 688.8
Std Dev 677.6

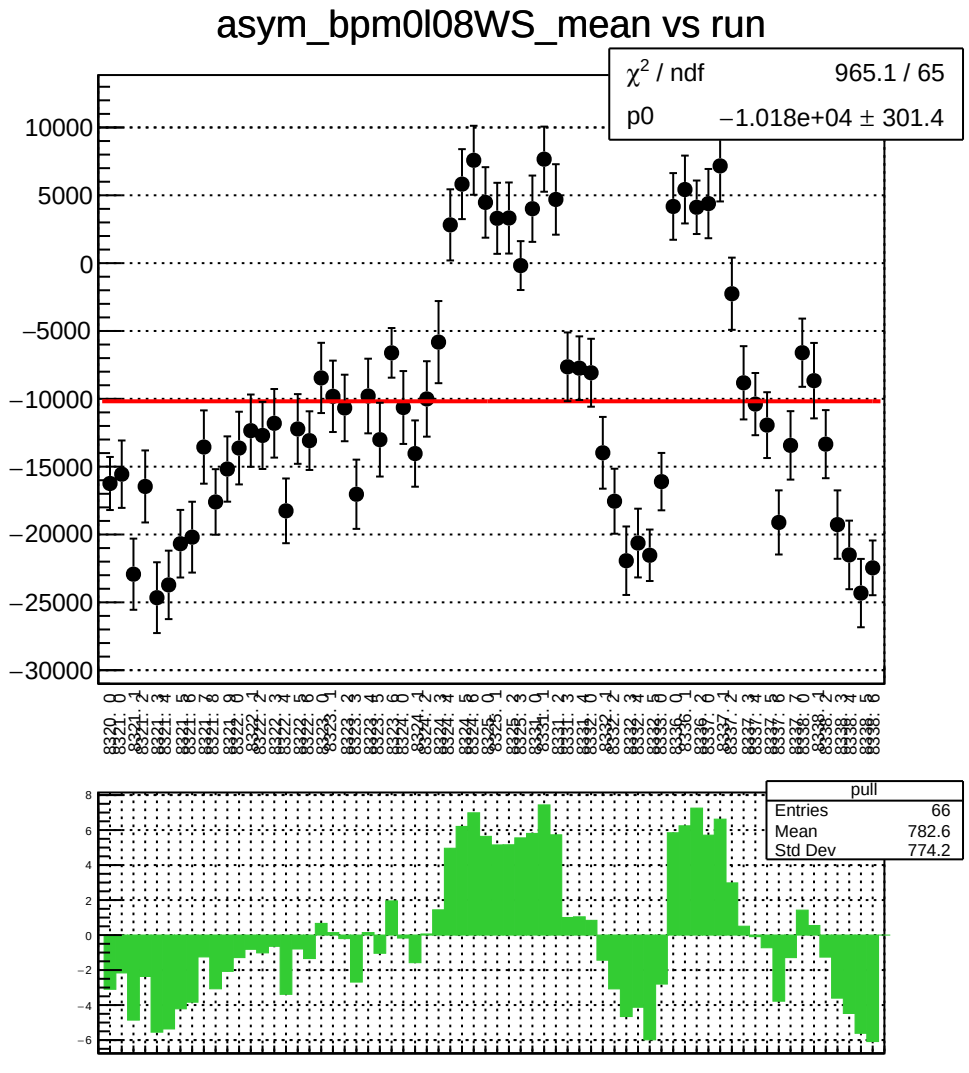

pull1D
Entries 66
Mean 0.02074
Std Dev 3.637

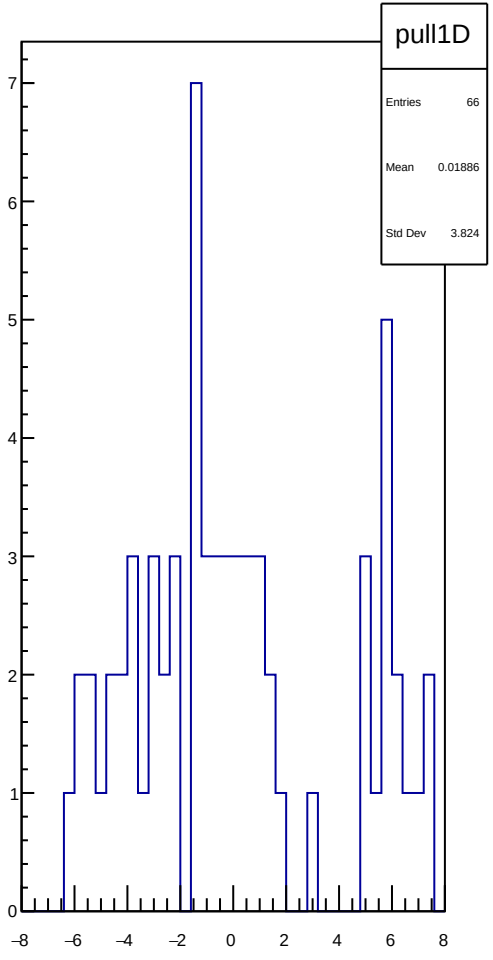

asym_bpm0l06WS_rms vs run
χ² / ndf 1962 / 65
p0 248.9 ± 0.2191
280
270
260
250
240
230
220

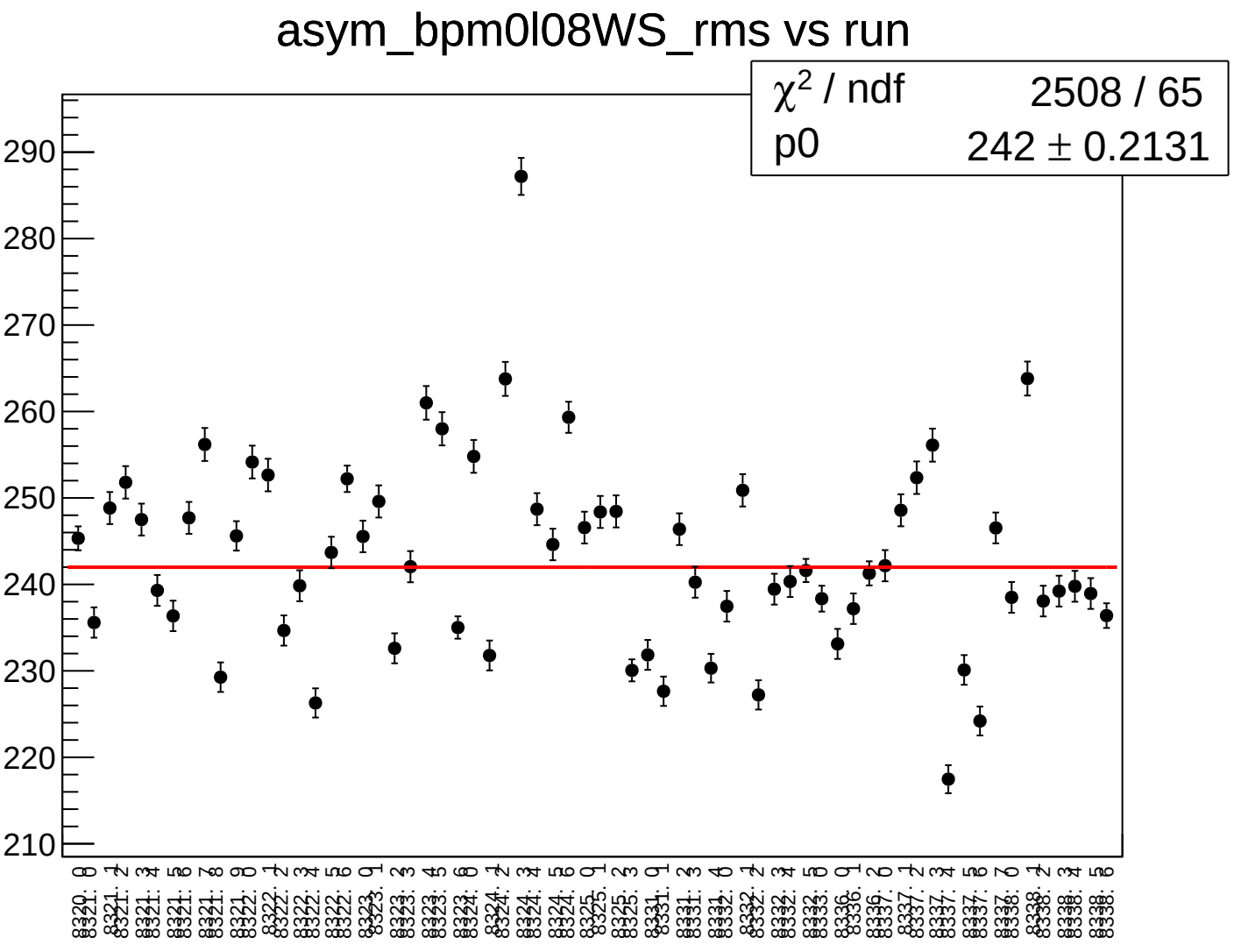

asym_bpm0l07WS_mean vs run
χ² / ndf 906.3 / 65
p0 −9957 ± 307
pull
Entries 66
Mean 216
Std Dev 209.2

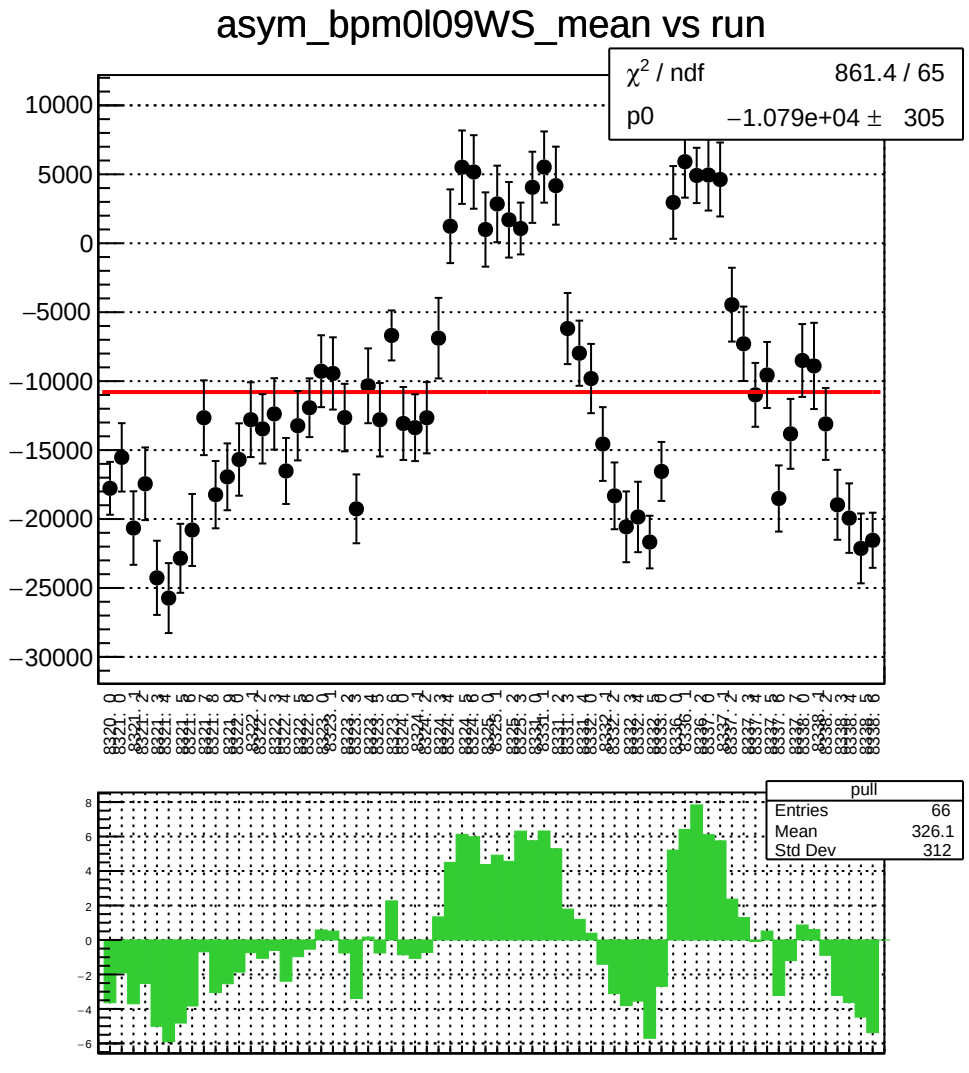

pull1D
Entries 66
Mean 0.06542
Std Dev 3.705

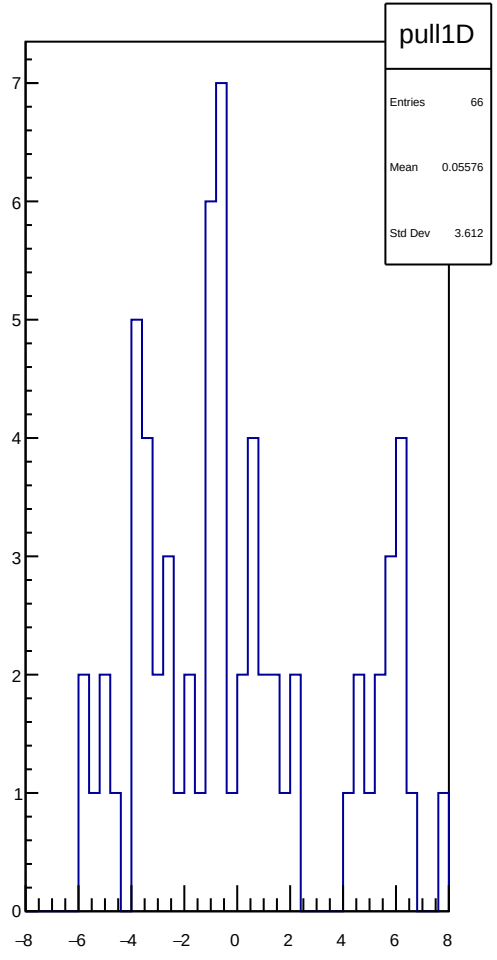

asym_bpm0l07WS_rms vs run
χ² / ndf 3350 / 65
p0 246.4 ± 0.2171
290
280
270
260
250
240
230
220

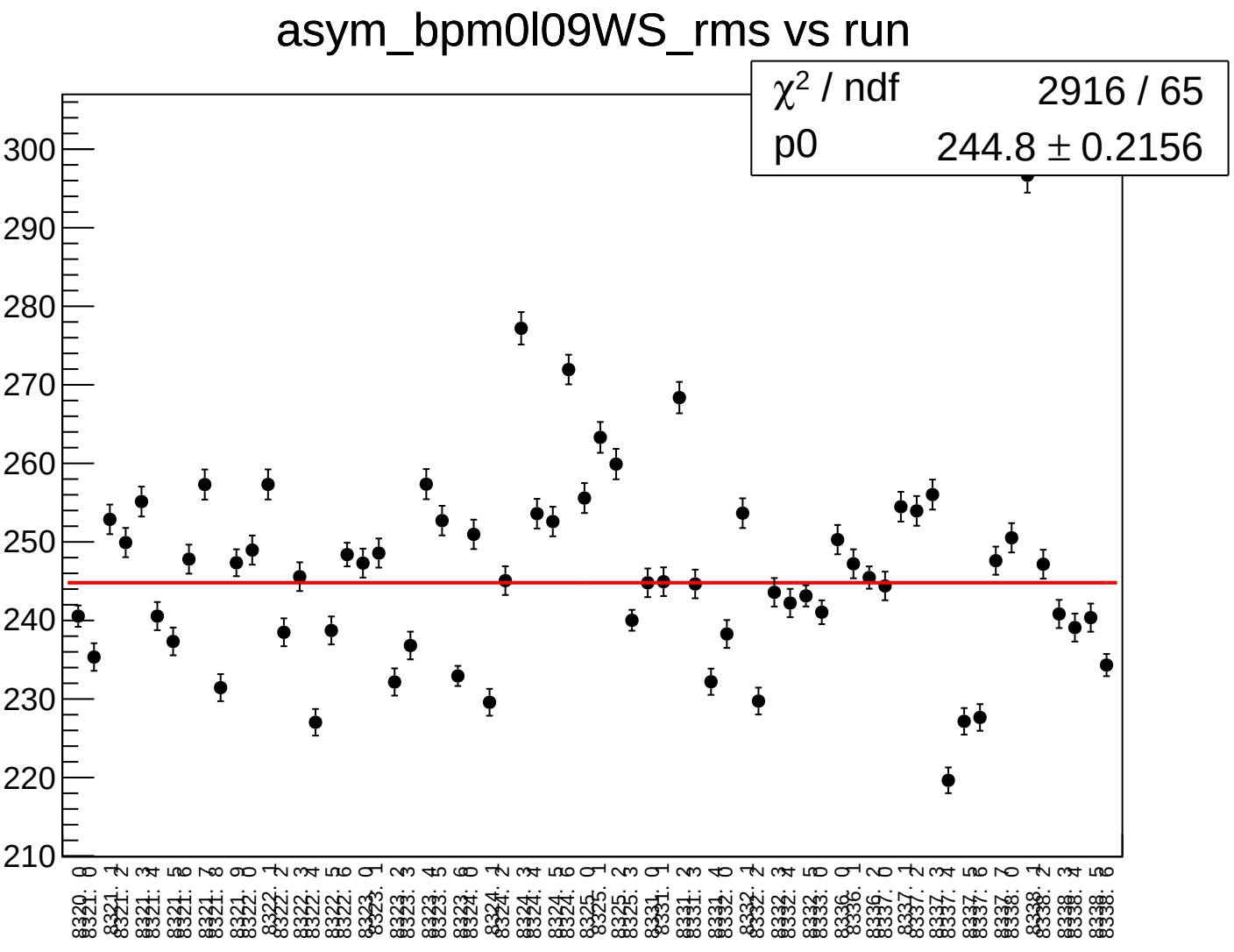

asym_bpm0l08WS_mean vs run
χ² / ndf 965.1 / 65
p0 −1.018e+04 ± 301.4
pull
Entries 66
Mean 782.6
Std Dev 774.2

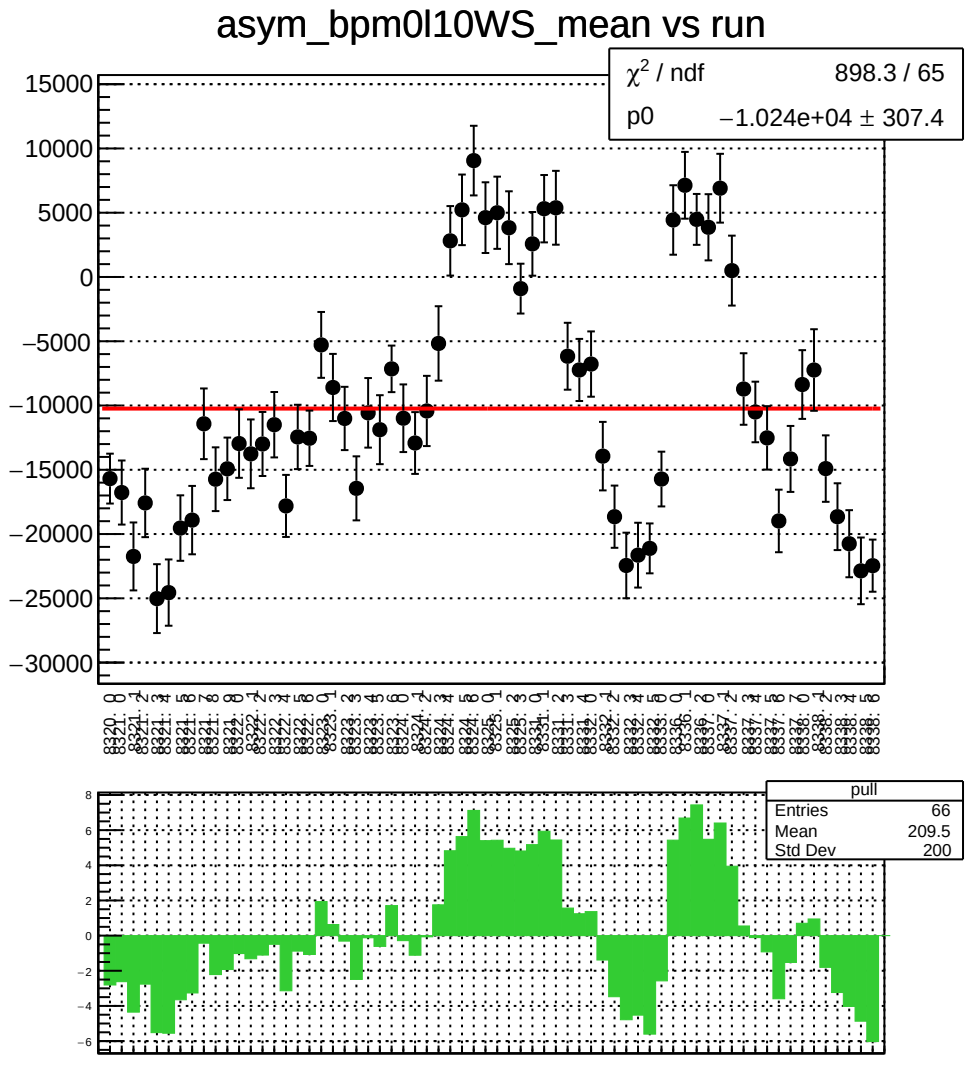

pull1D
Entries 66
Mean 0.01886
Std Dev 3.824

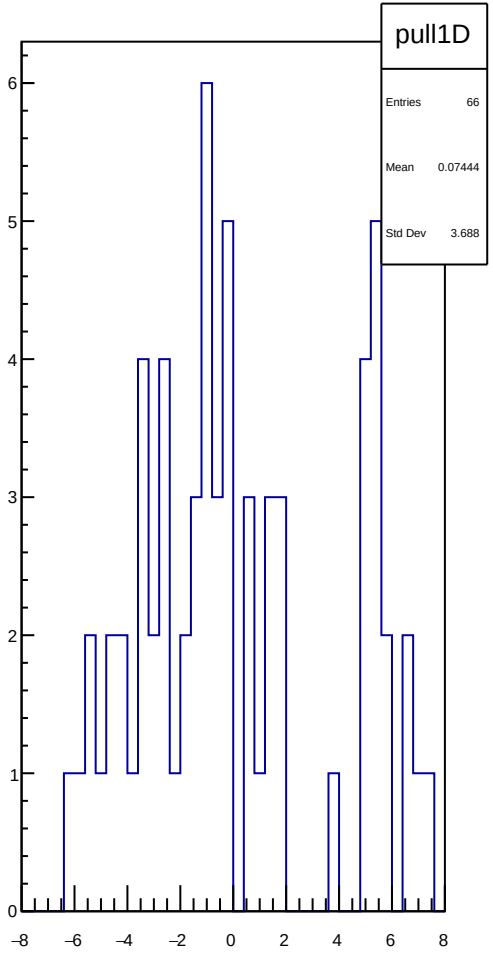

asym_bpm0l08WS_rms vs run
χ^2 / ndf 2508 / 65
p0 242 ± 0.2131
290
280
270
260
250
240
230
220
210

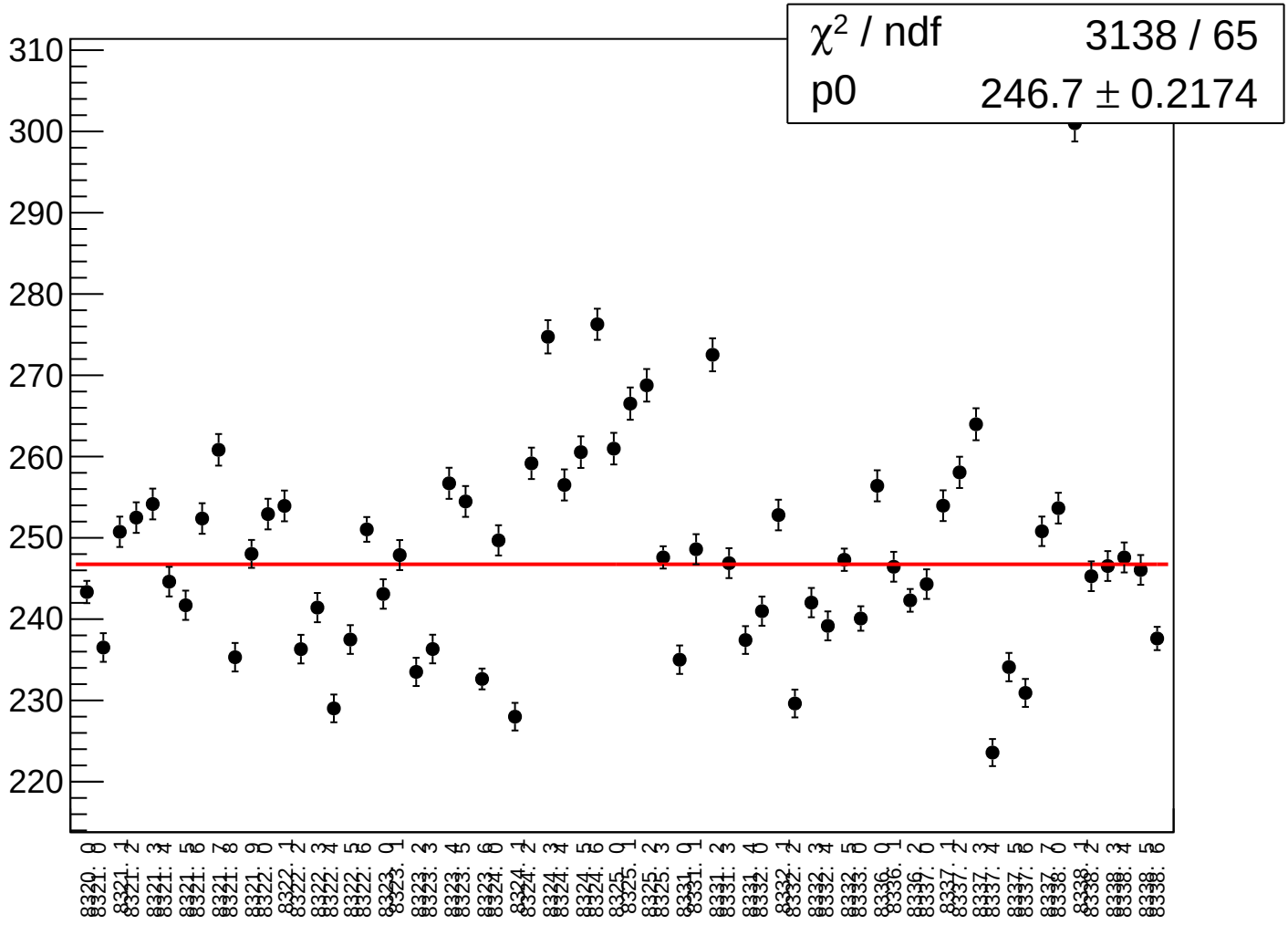

asym_bpm0l09WS_mean vs run
χ² / ndf 861.4 / 65
p0 −1.079e+04 ± 305
pull
Entries 66
Mean 326.1
Std Dev 312

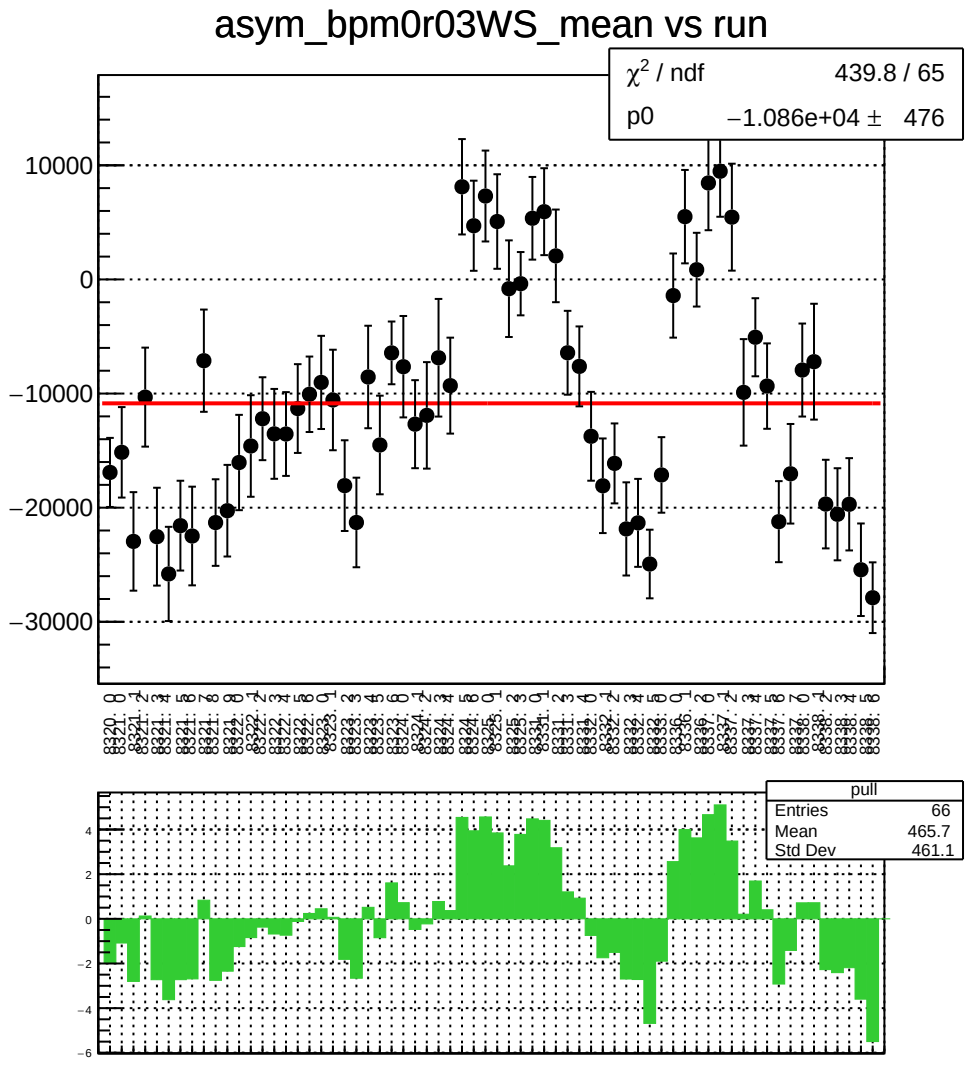

pull1D
Entries 66
Mean 0.05576
Std Dev 3.612

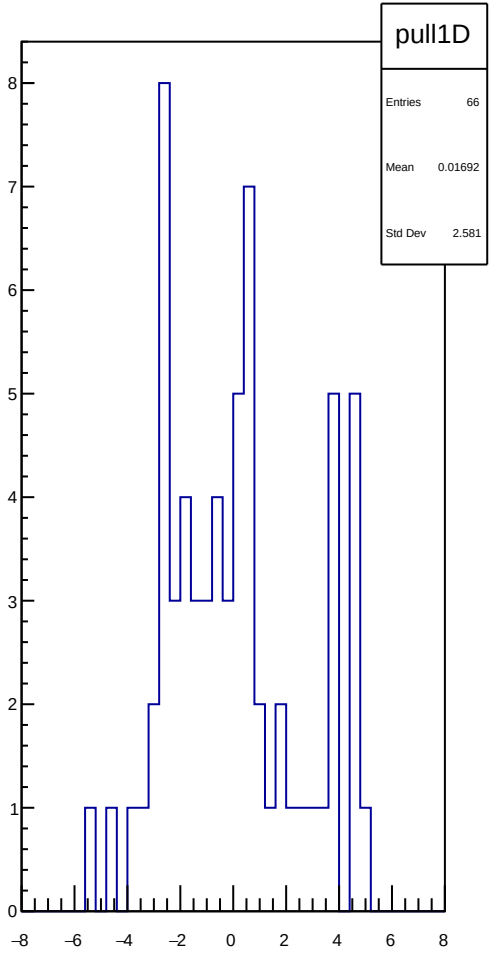

asym_bpm0l09WS_rms vs run
χ² / ndf 2916 / 65
p0 244.8 ± 0.2156
300
290
280
270
260
250
240
230
220
210

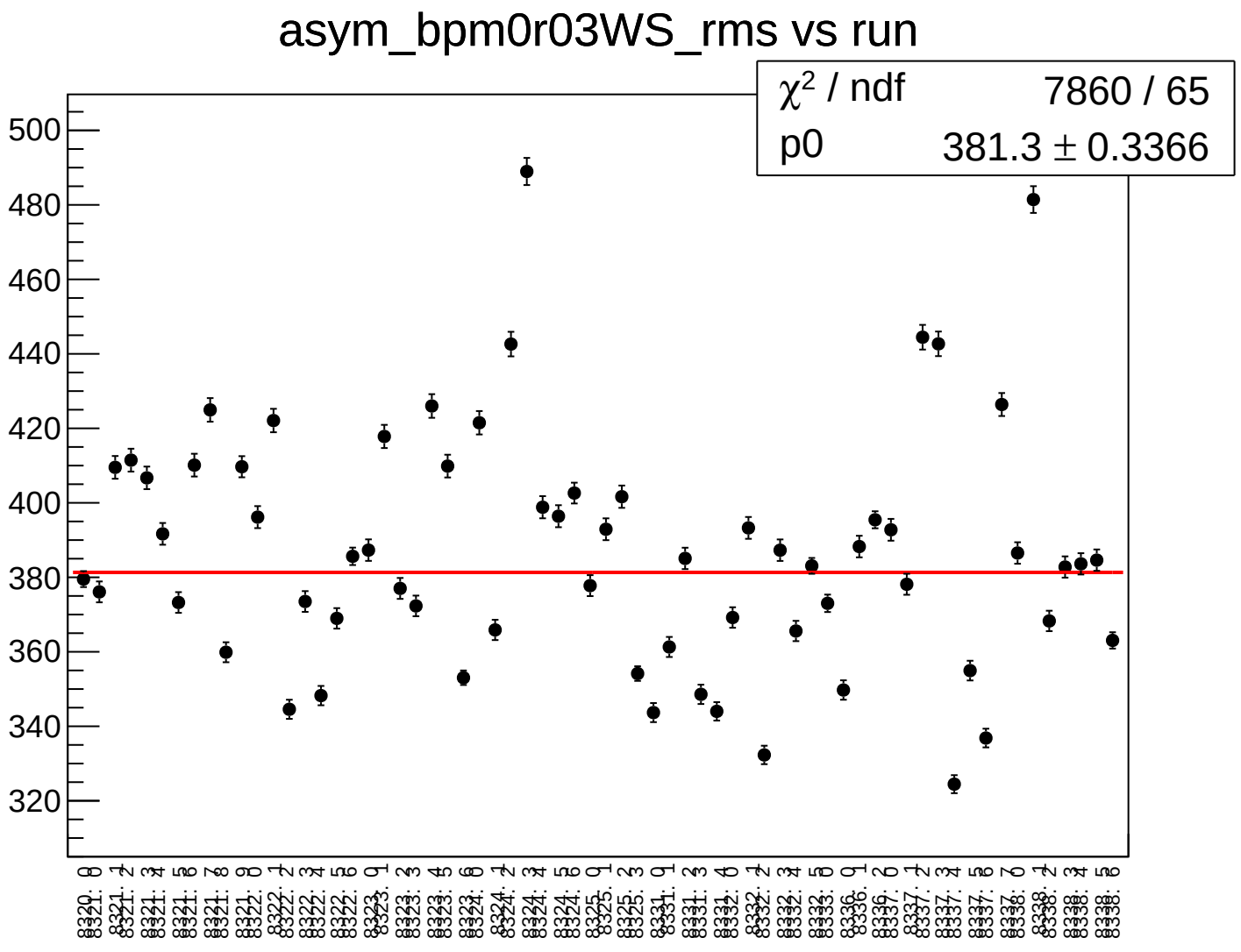

asym_bpm0l10WS_mean vs run
χ² / ndf 898.3 / 65
p0 −1.024e+04 ± 307.4
pull
Entries 66
Mean 209.5
Std Dev 200

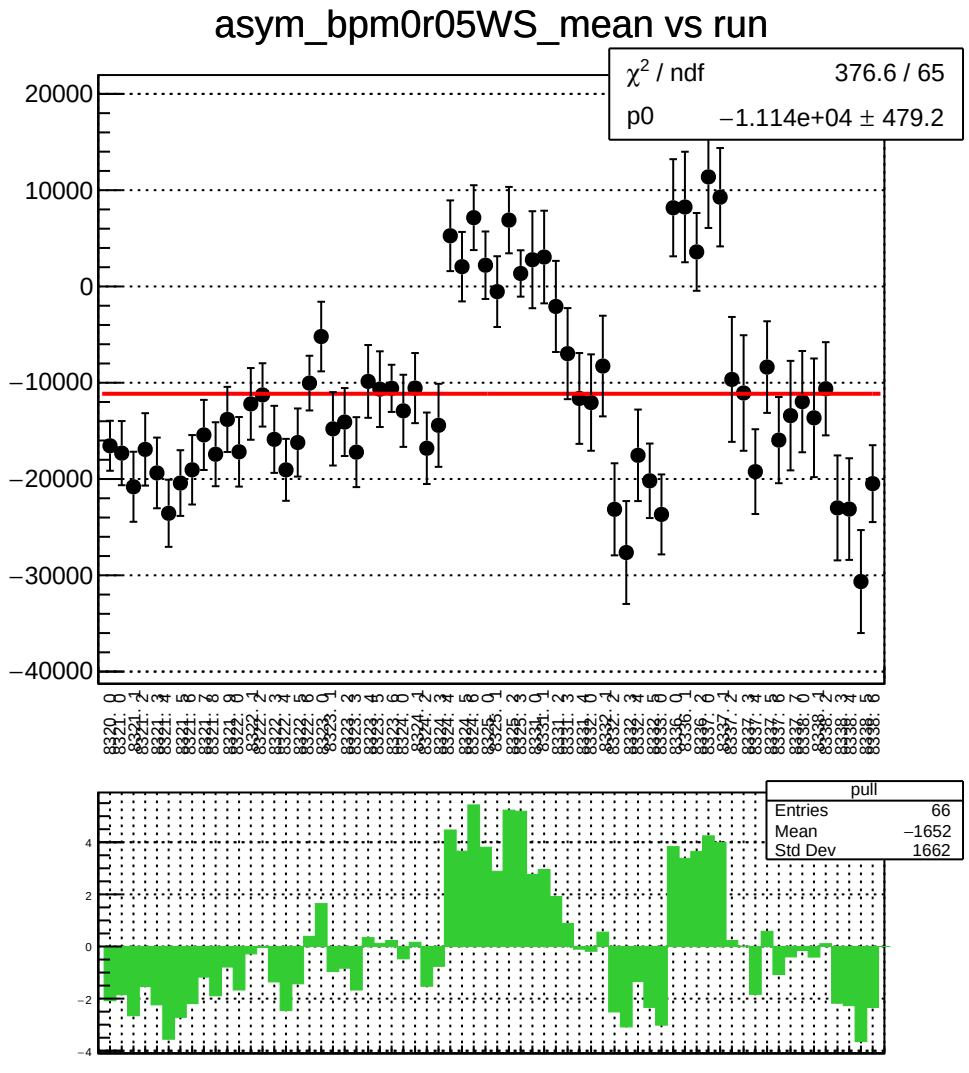

pull1D
Entries 66
Mean 0.07444
Std Dev 3.688

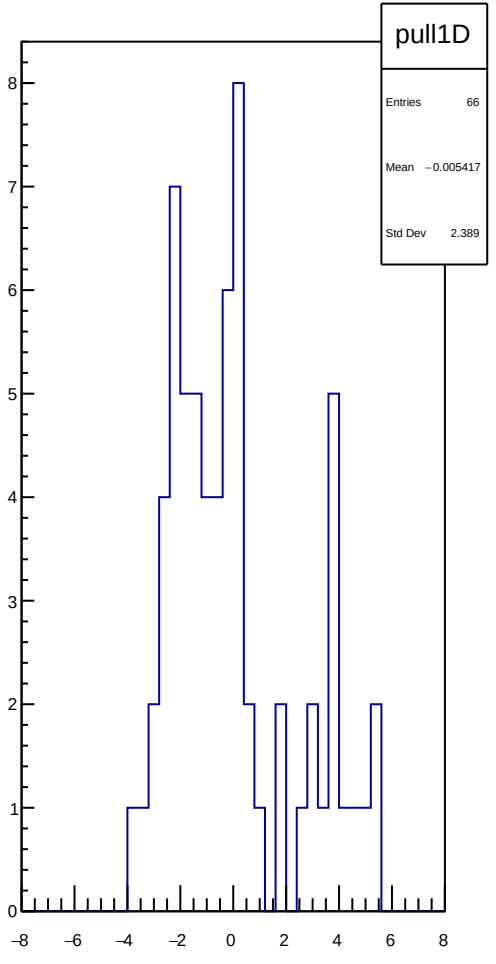

asym_bpm0l10WS_rms vs run
χ^2 / ndf 3138 / 65
p0 246.7 ± 0.2174
310
300
290
280
270
260
250
240
230
220

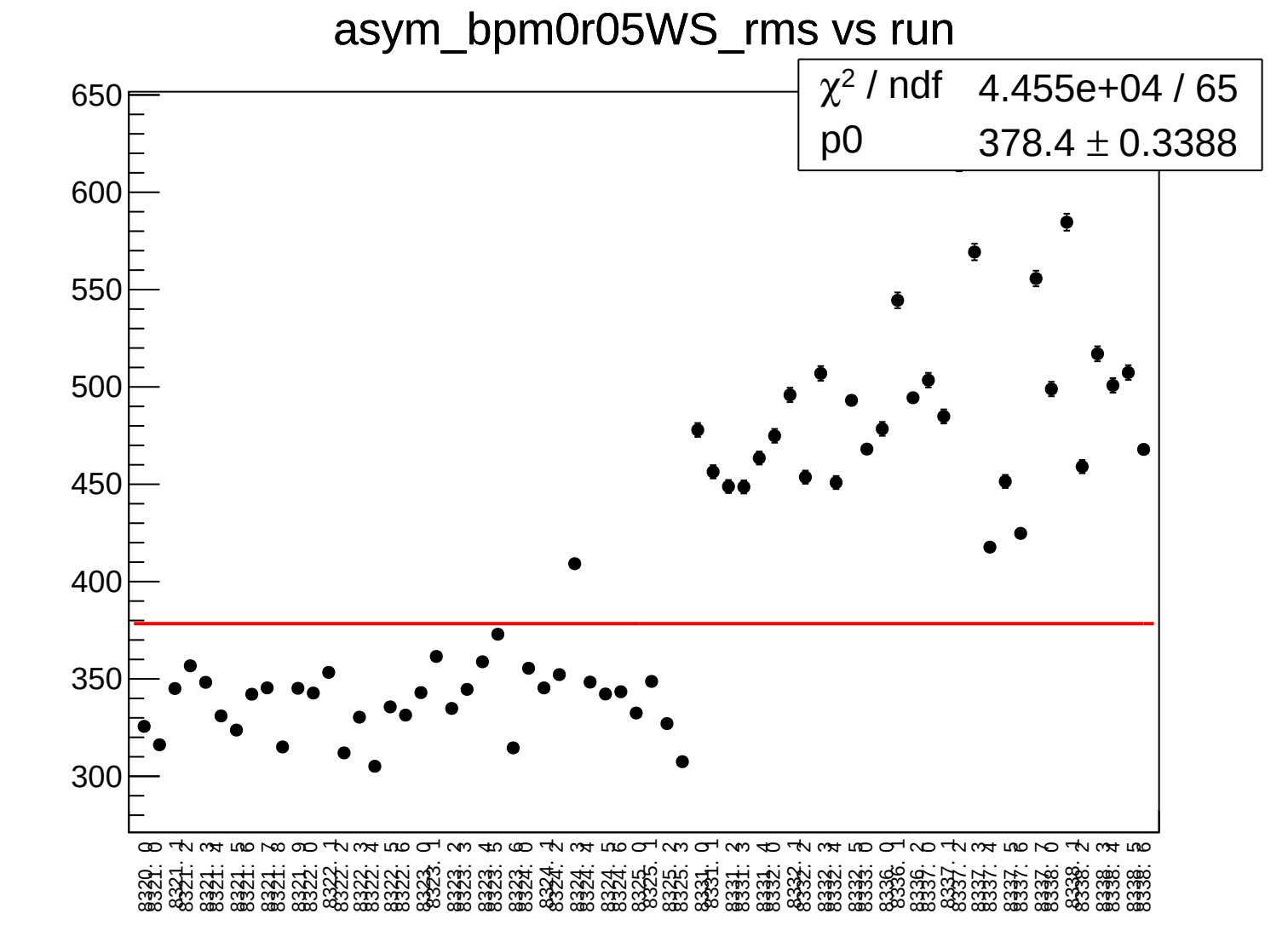

asym_bpm0r03WS_mean vs run
χ² / ndf 439.8 / 65
p0 −1.086e+04 ± 476
10000
0
−10000
−20000
−30000
pull
Entries 66
Mean 465.7
Std Dev 461.1
4
2
0
−2
−4
−6

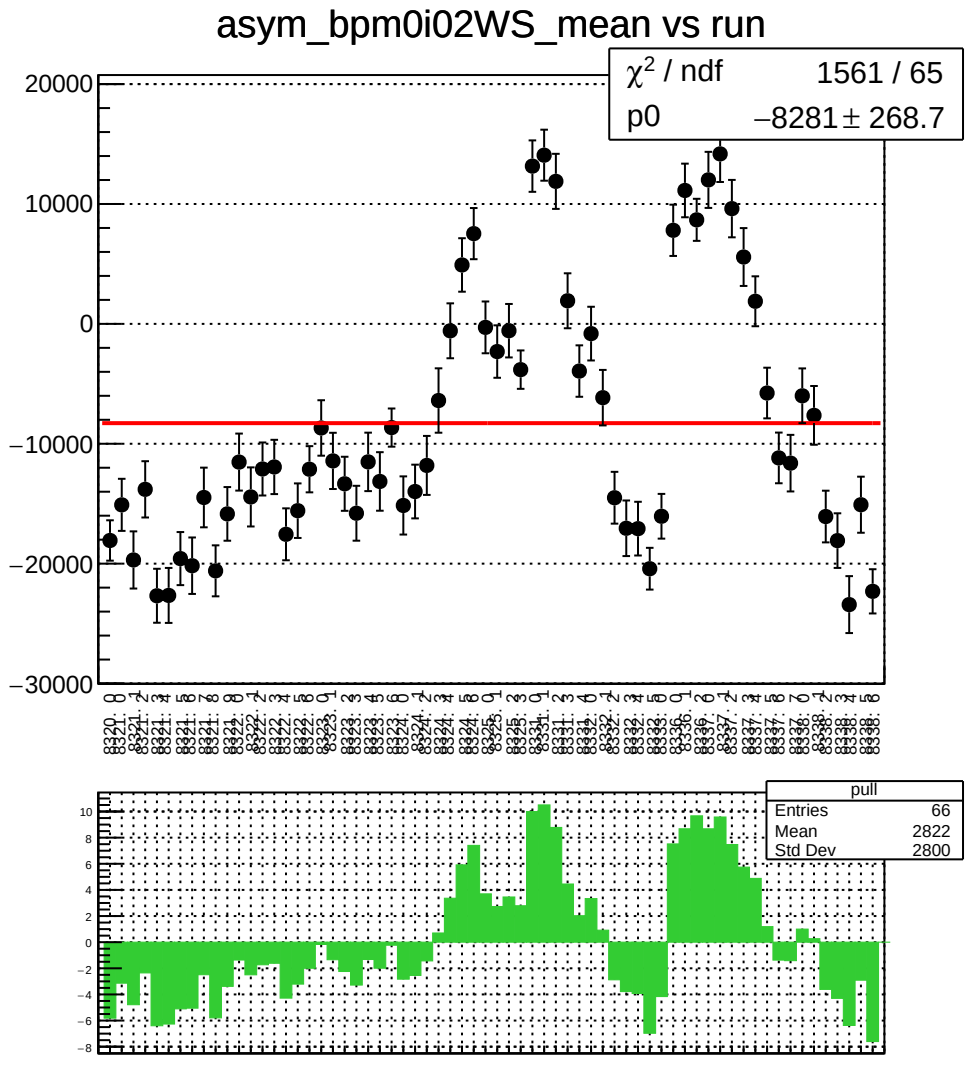

pull1D
Entries 66
Mean 0.01692
Std Dev 2.581
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

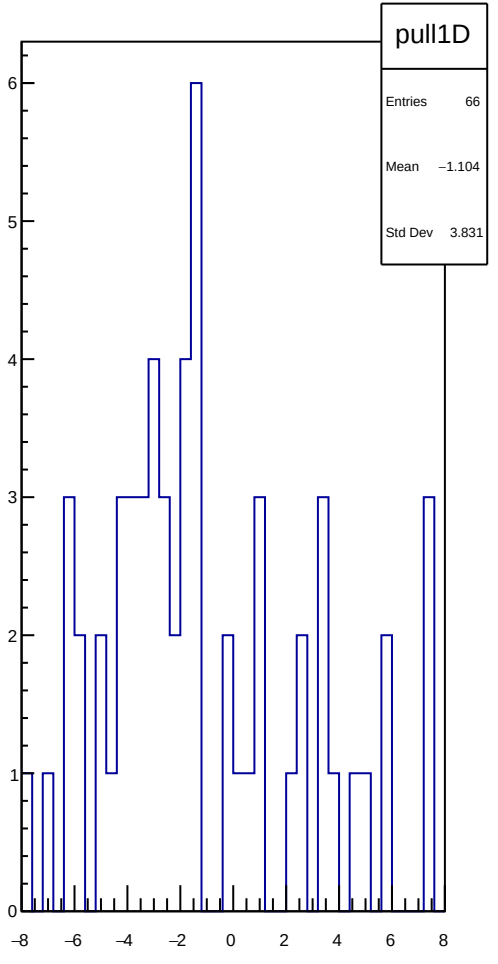

asym_bpm0r03WS_rms vs run
χ² / ndf 7860 / 65
p0 381.3 ± 0.3366
500
480
460
440
420
400
380
360
340
320

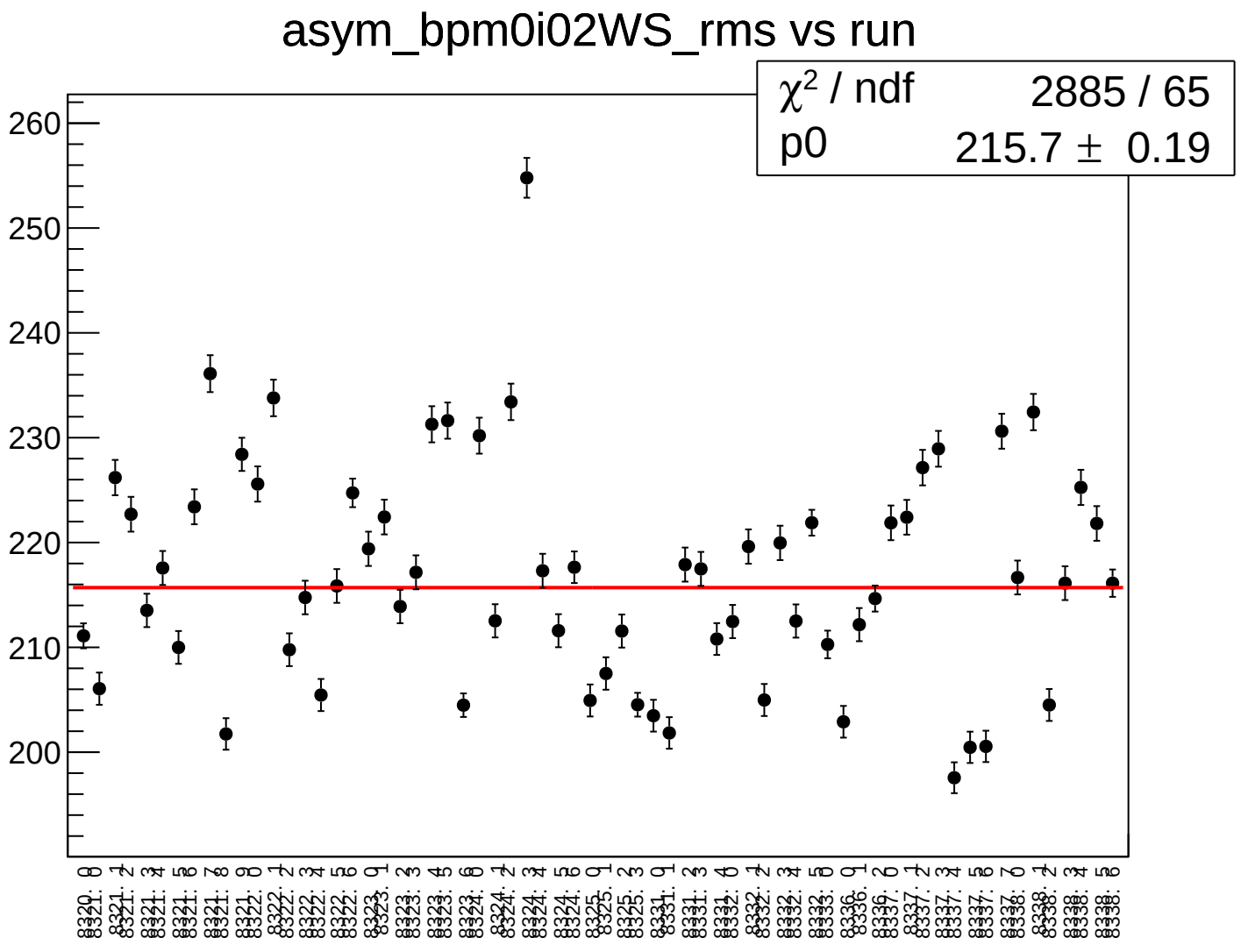

asym_bpm0r05WS_mean vs run
χ² / ndf 376.6 / 65
p0 −1.114e+04 ± 479.2
pull
Entries 66
Mean −1652
Std Dev 1662

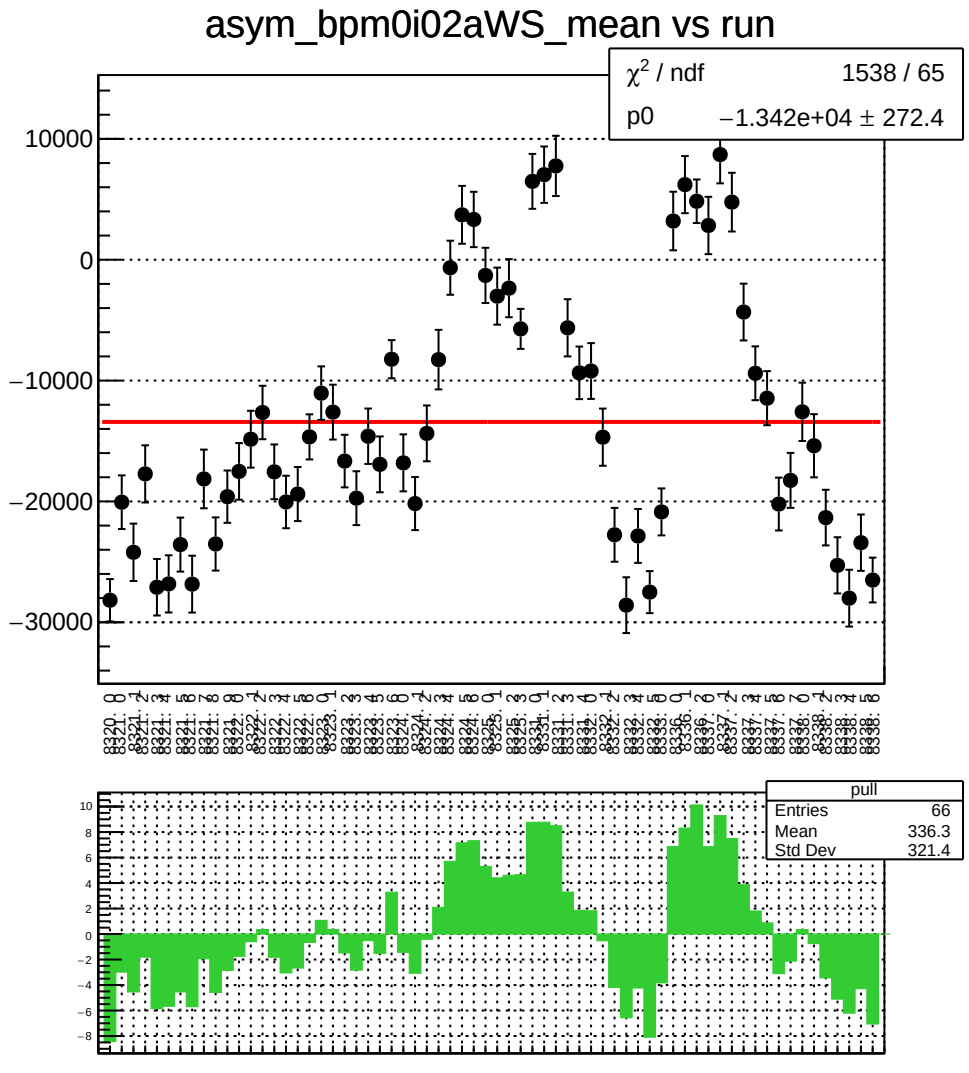

pull1D
Entries 66
Mean −0.005417
Std Dev 2.389

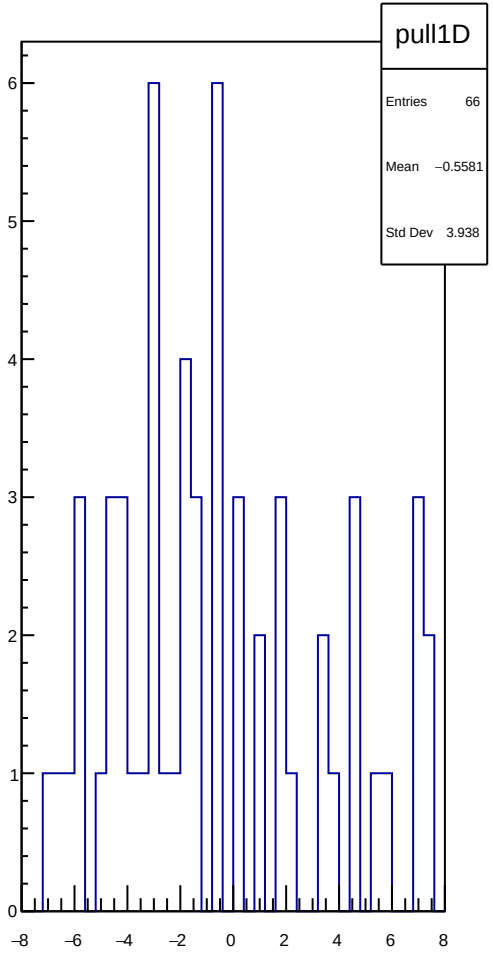

asym_bpm0r05WS_rms vs run
χ² / ndf 4.455e+04 / 65
p0 378.4 ± 0.3388
650
600
550
500
450
400
350
300

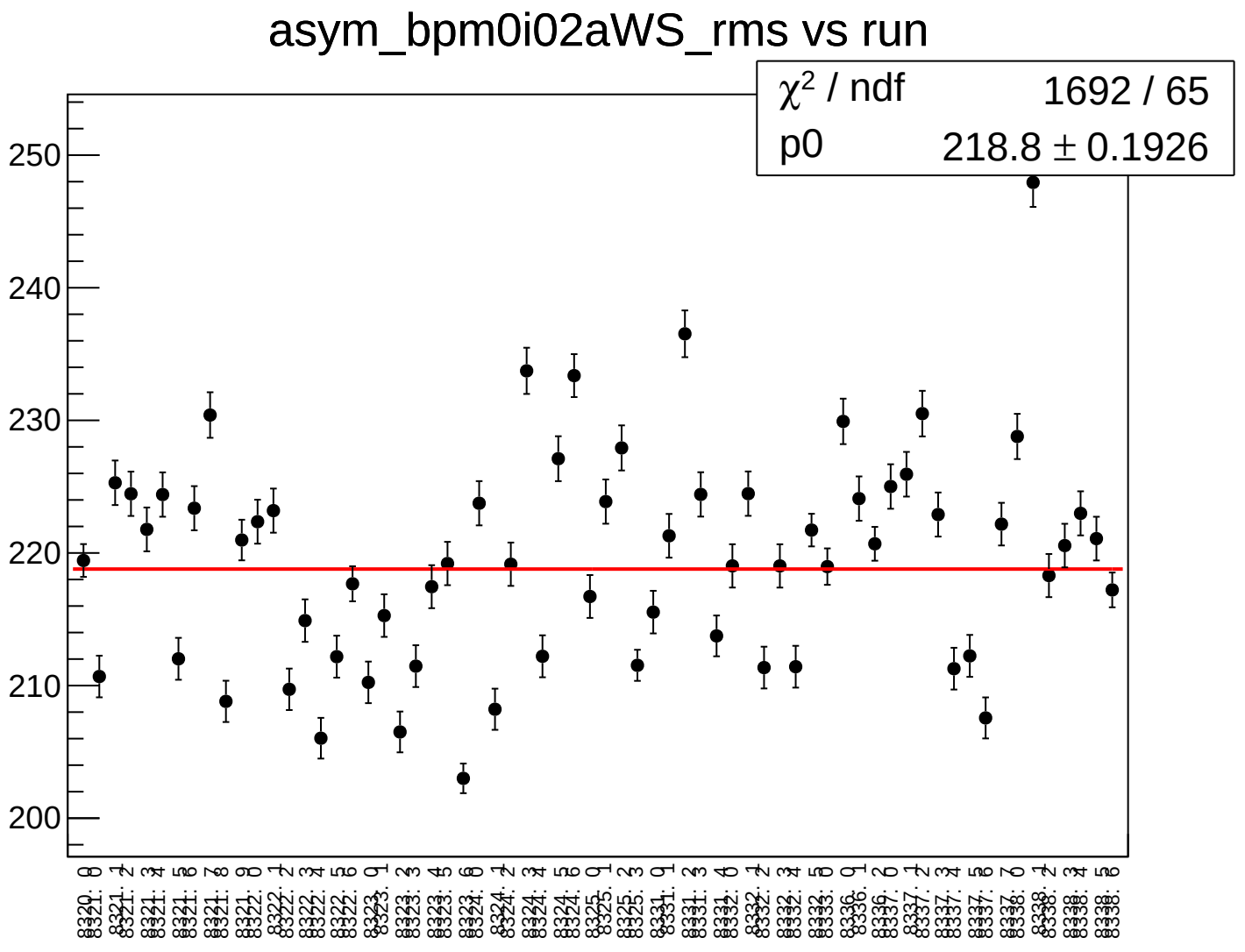

asym_bpm0i02WS_mean vs run
χ² / ndf 1561 / 65
p0 −8281 ± 268.7
pull
Entries 66
Mean 2822
Std Dev 2800

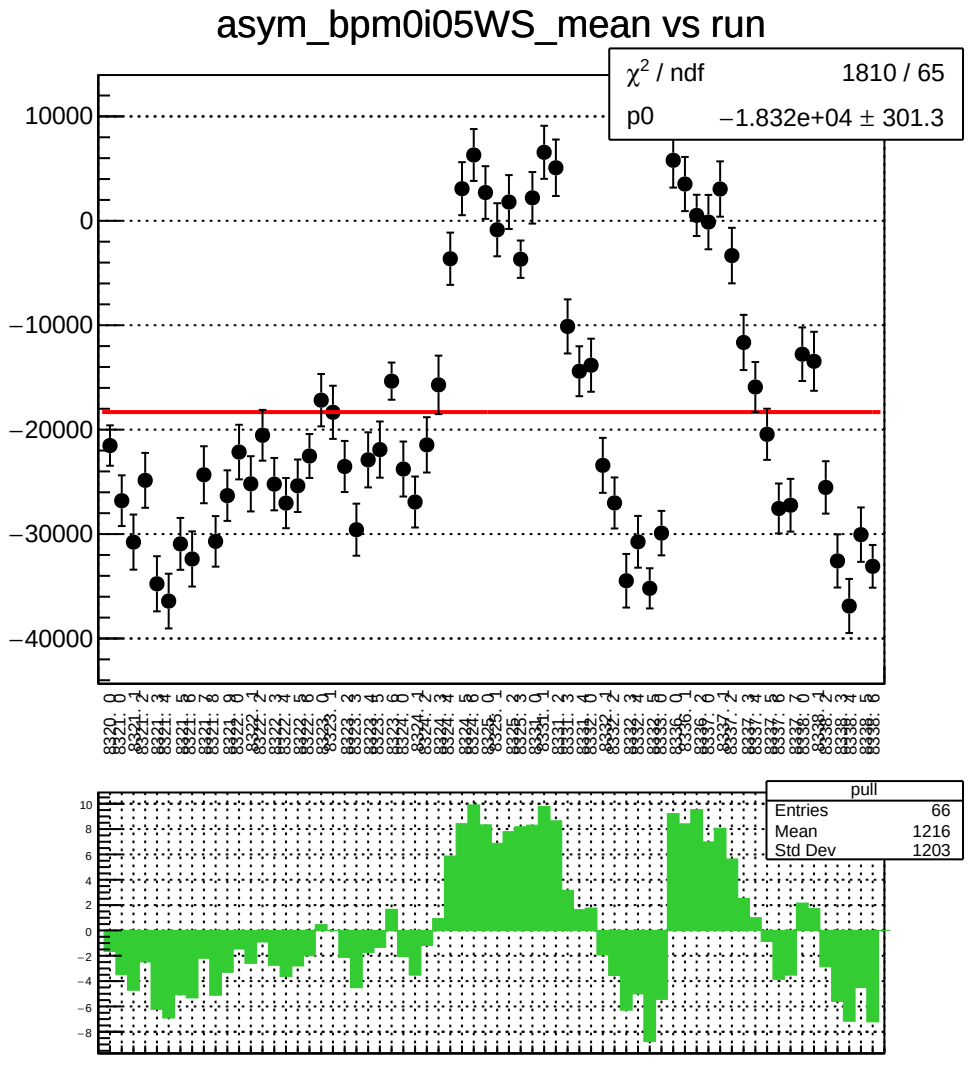

pull1D
Entries 66
Mean −1.104
Std Dev 3.831

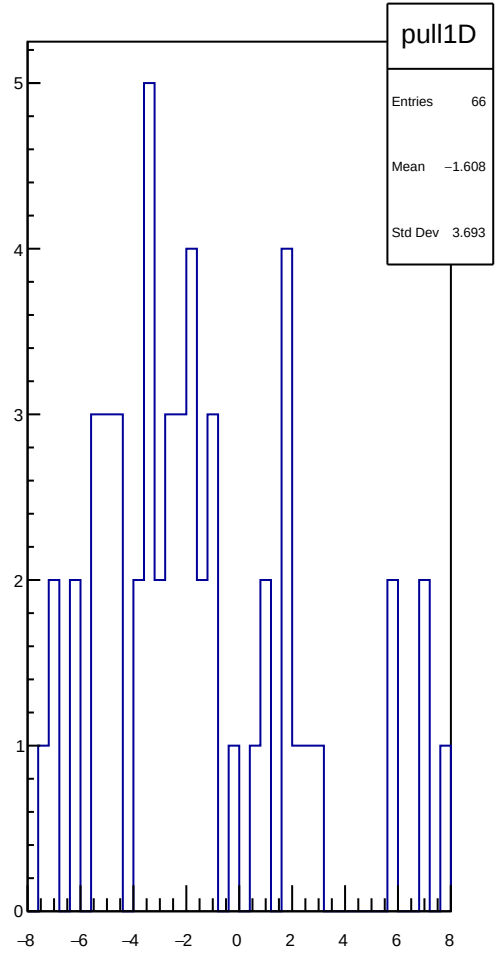

asym_bpm0i02WS_rms vs run
χ² / ndf 2885 / 65
p0 215.7 ± 0.19
260
250
240
230
220
210
200

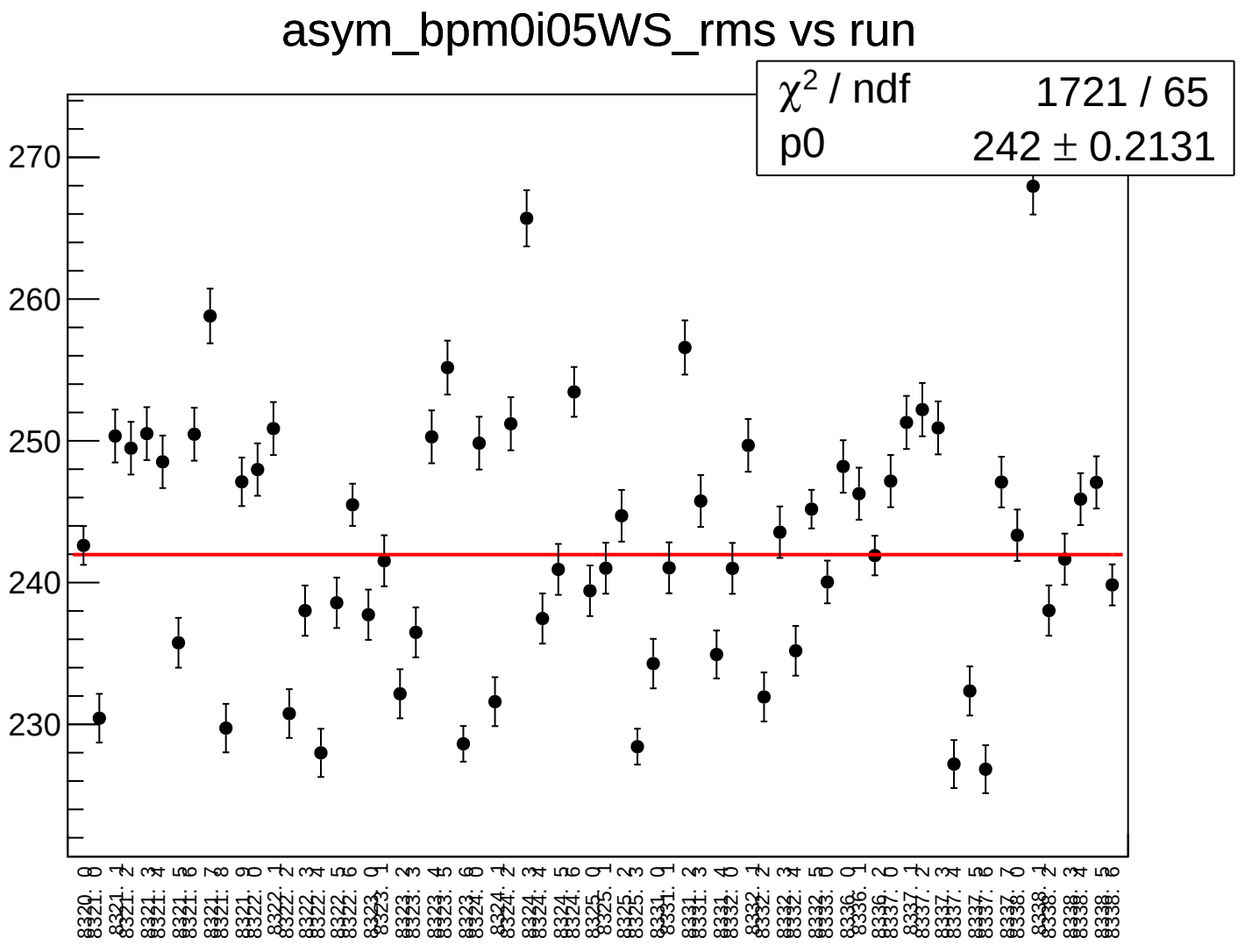

asym_bpm0i02aWS_mean vs run
χ² / ndf 1538 / 65
p0 −1.342e+04 ± 272.4
pull
Entries 66
Mean 336.3
Std Dev 321.4

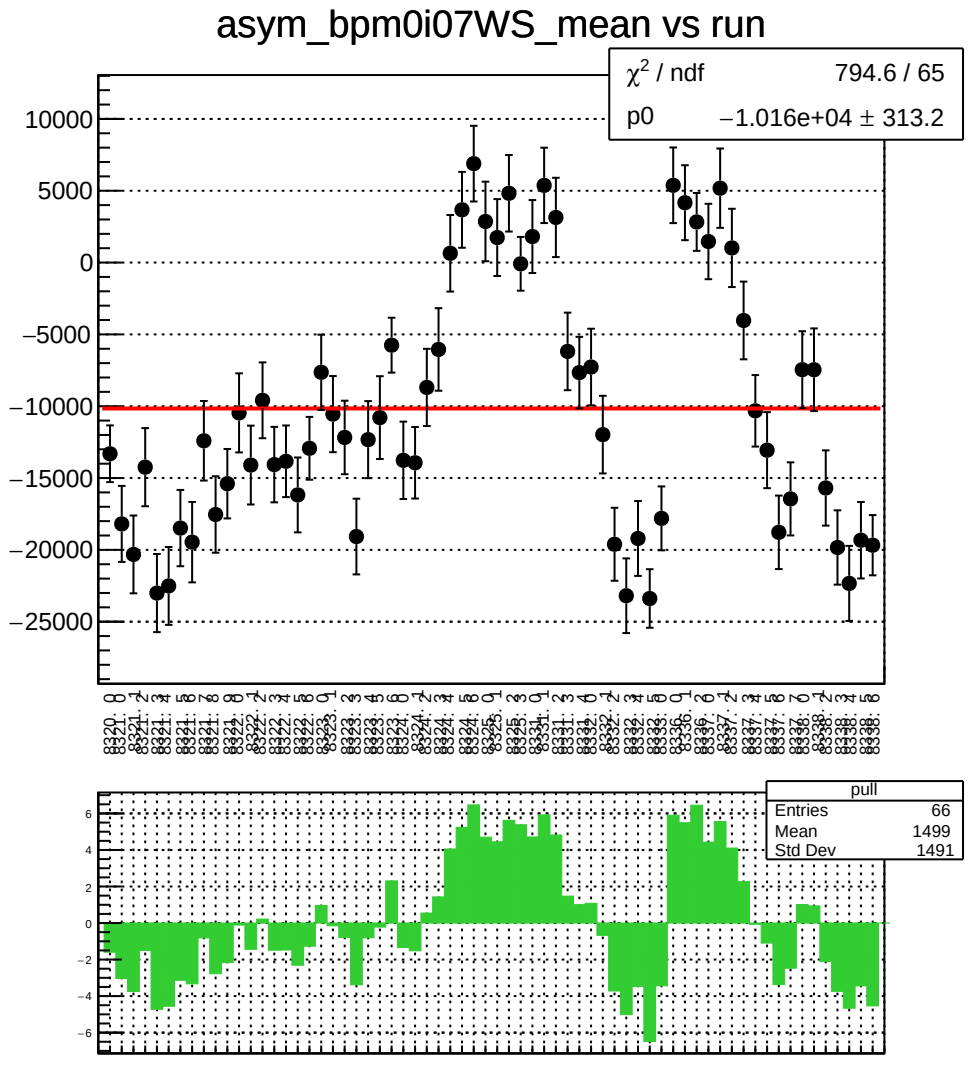

pull1D
Entries 66
Mean −0.5581
Std Dev 3.938

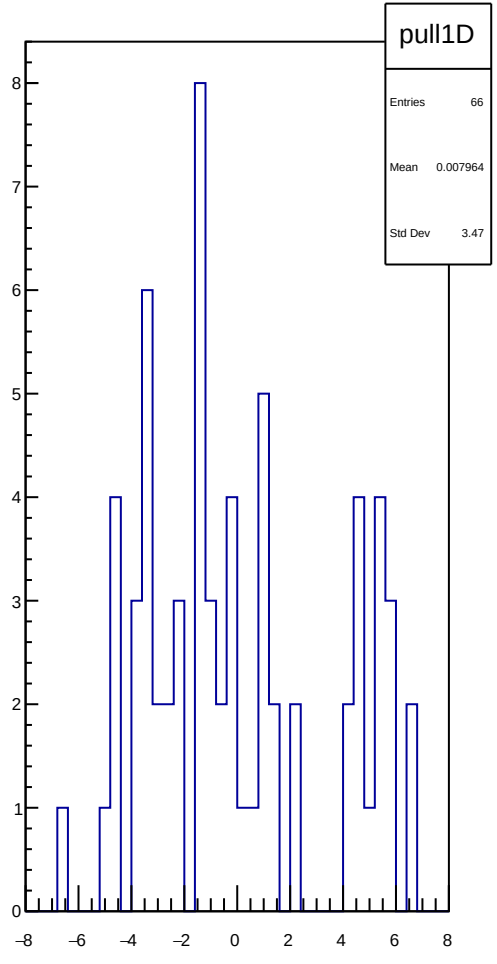

asym_bpm0i02aWS_rms vs run
χ² / ndf 1692 / 65
p0 218.8 ± 0.1926
250
240
230
220
210
200

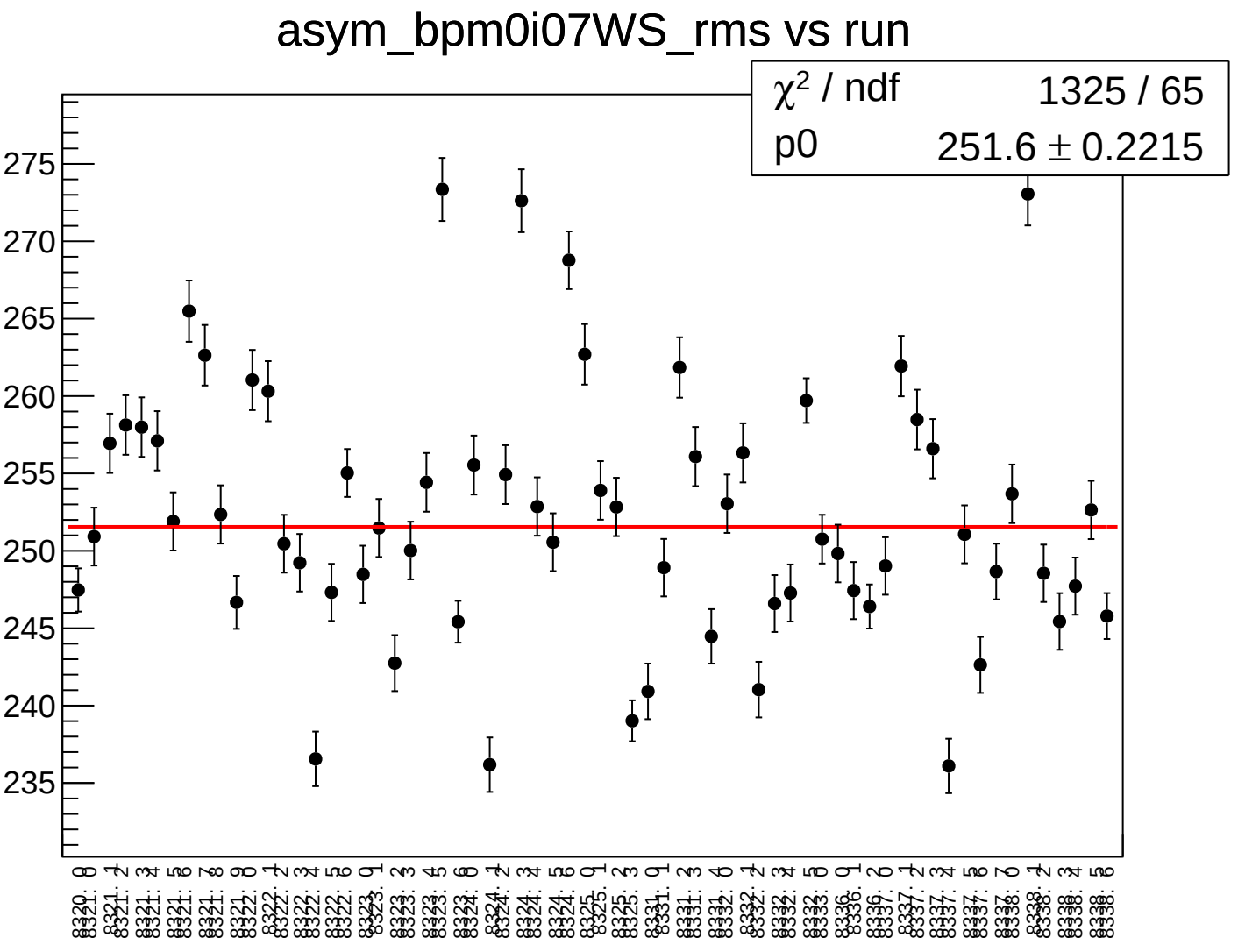

asym_bpm0i05WS_mean vs run
χ² / ndf 1810 / 65
p0 −1.832e+04 ± 301.3
10000
0
−10000
−20000
−30000
−40000
pull
Entries 66
Mean 1216
Std Dev 1203

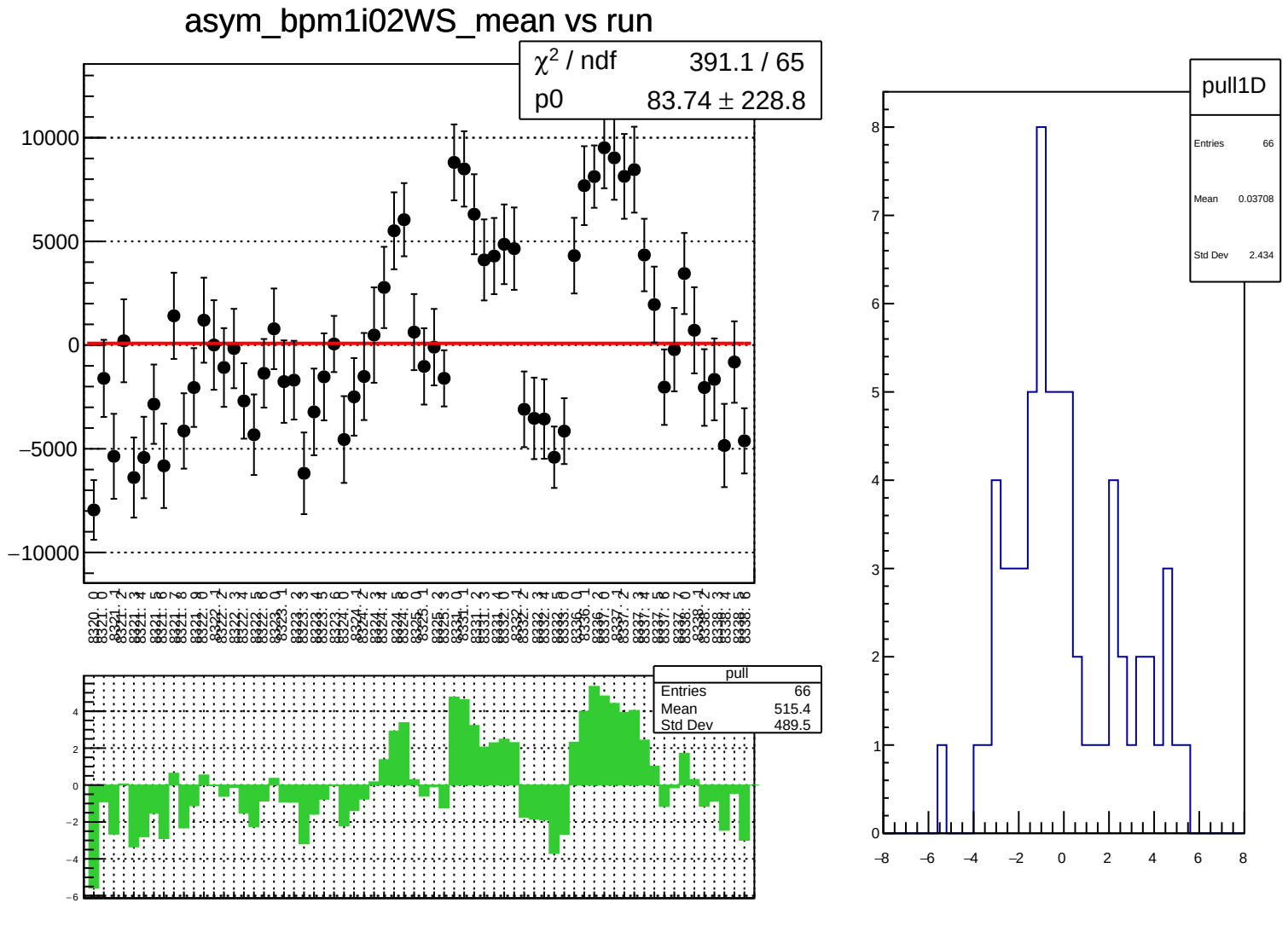

pull1D
Entries 66
Mean −1.608
Std Dev 3.693

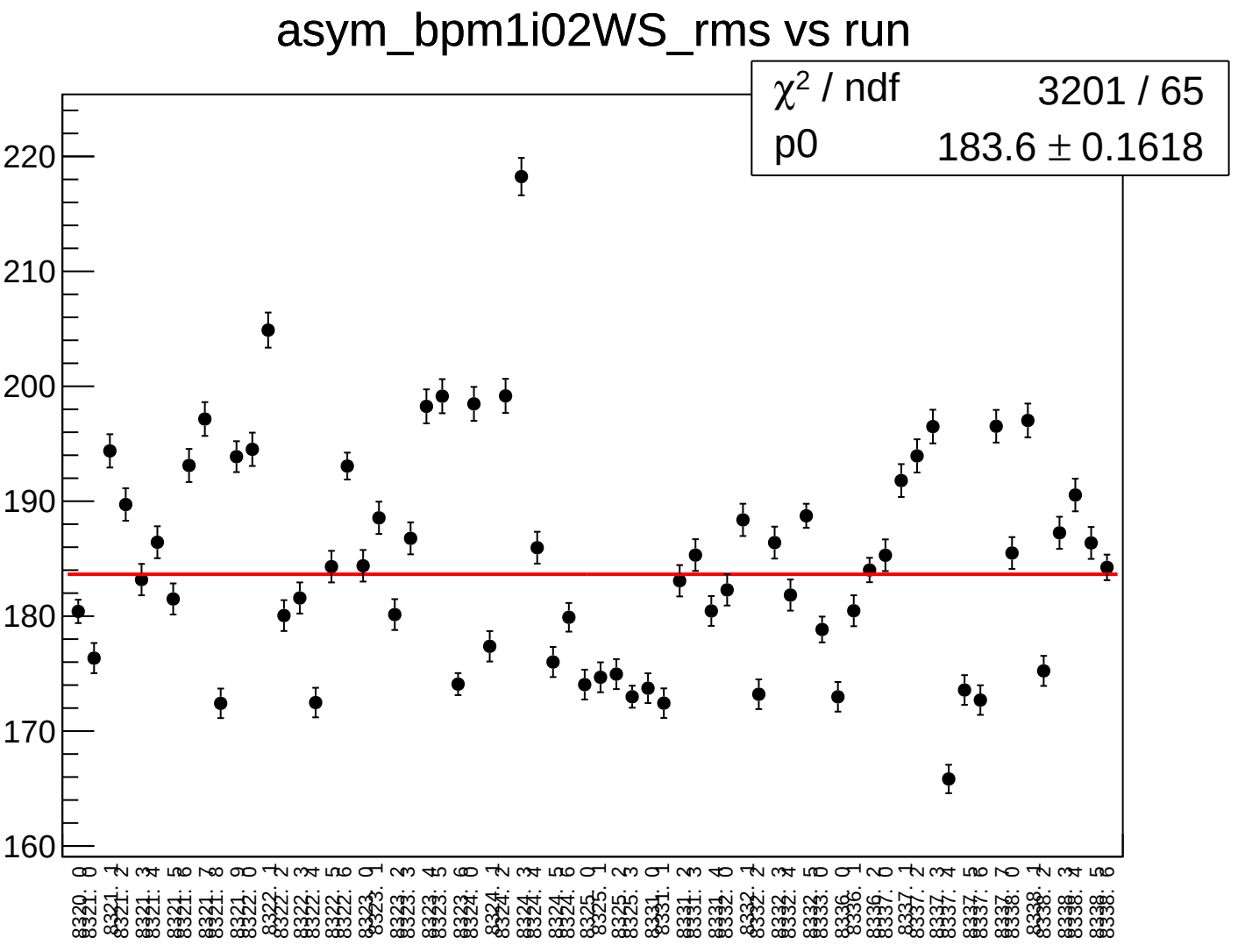

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1721 / 65
p0 242 ± 0.2131
270
260
250
240
230

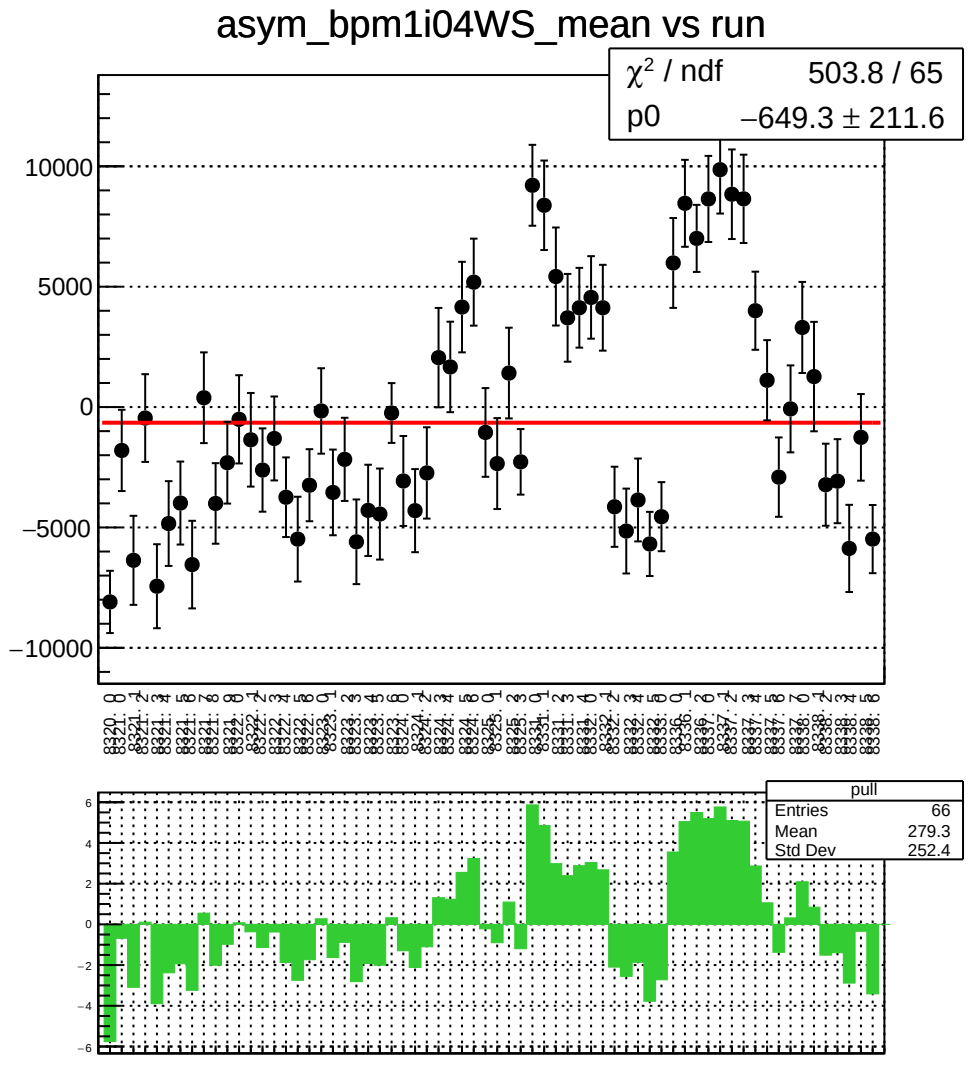

asym_bpm0i07WS_mean vs run
χ² / ndf 794.6 / 65
p0 −1.016e+04 ± 313.2
10000
5000
0
−5000
−10000
−15000
−20000
−25000
pull
Entries 66
Mean 1499
Std Dev 1491

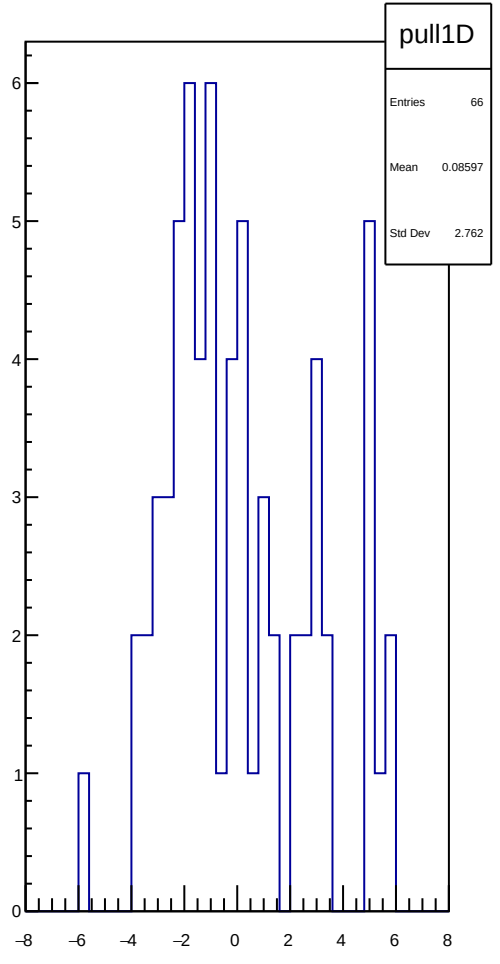

pull1D
Entries 66
Mean 0.007964
Std Dev 3.47

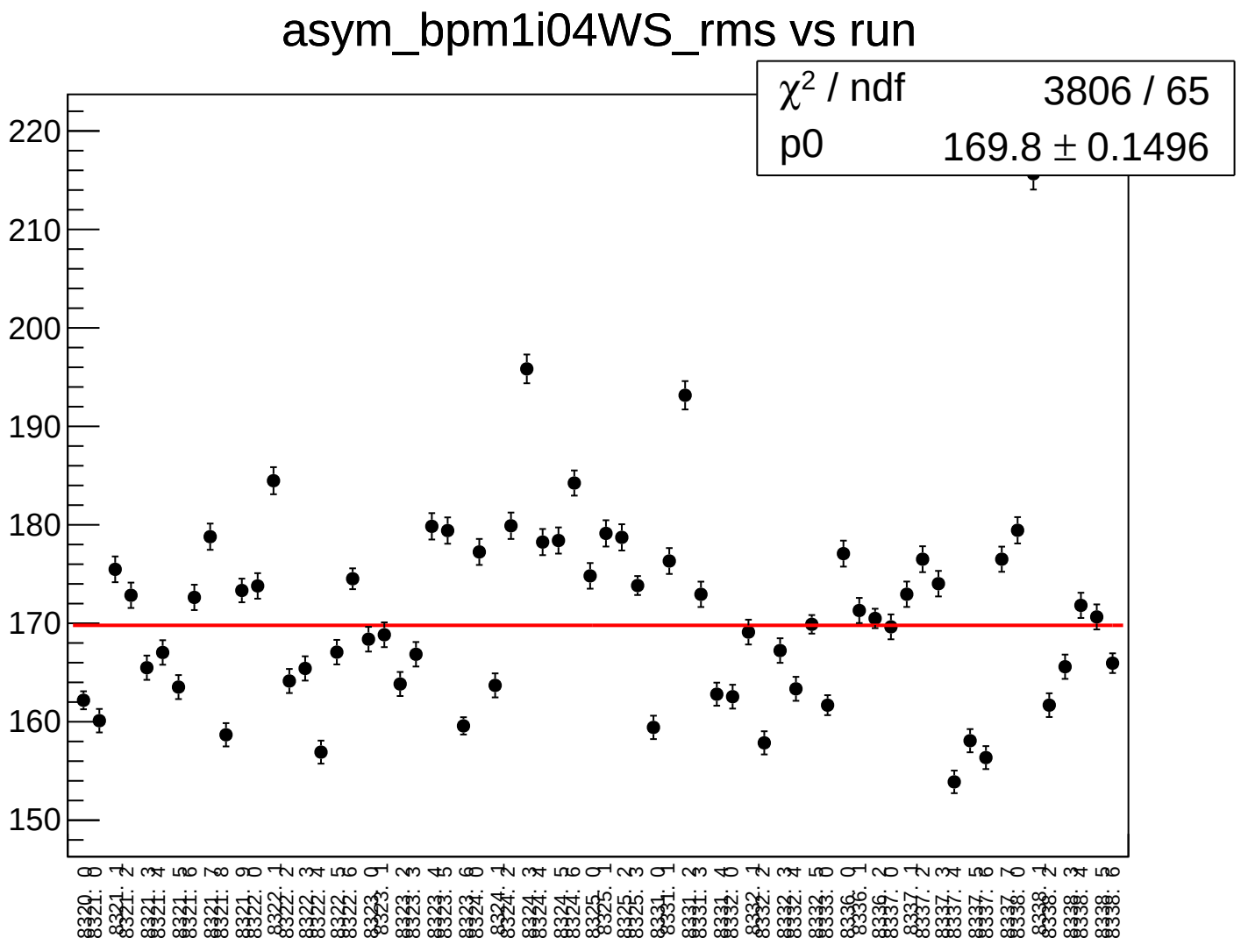

asym_bpm0i07WS_rms vs run
χ^2 / ndf 1325 / 65
p0 251.6 ± 0.2215
275
270
265
260
255
250
245
240
235

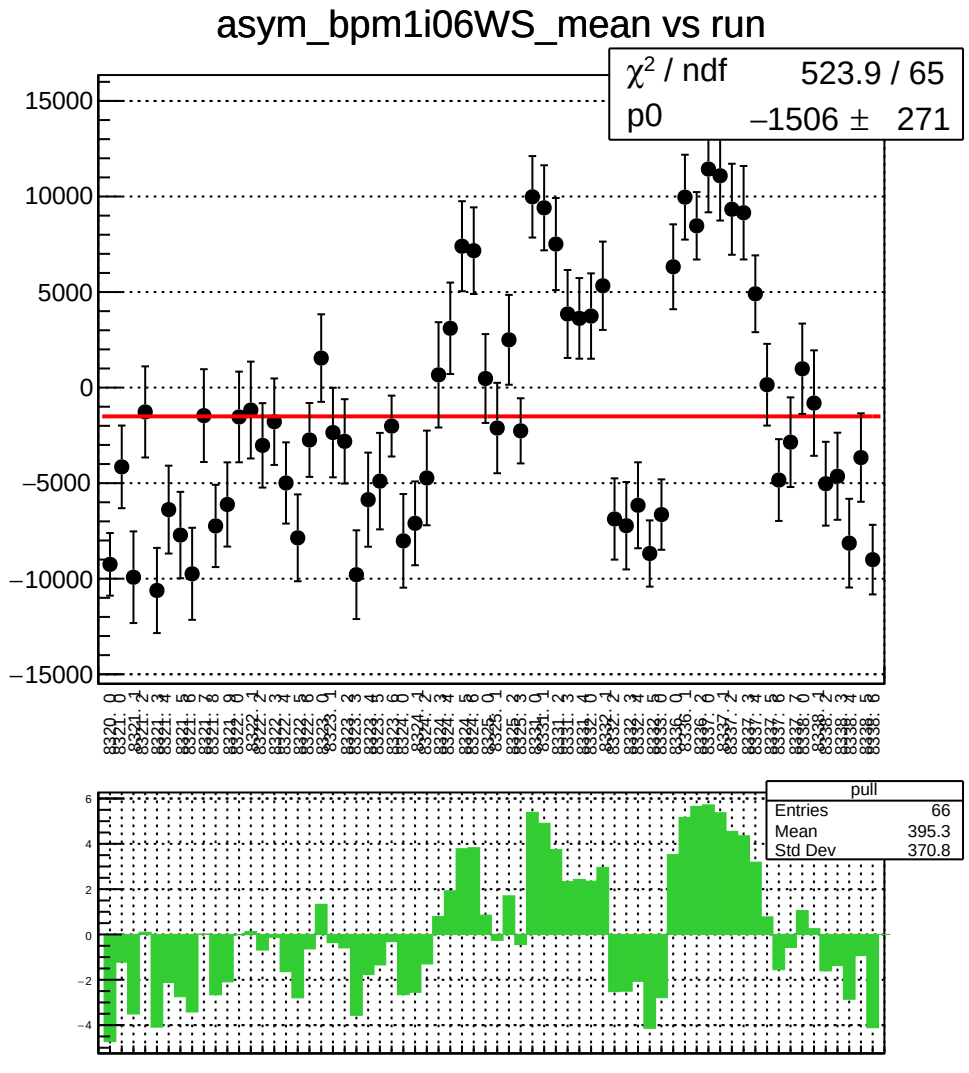

asym_bpm1i02WS_mean vs run
χ² / ndf 391.1 / 65
p0 83.74 ± 228.8
pull
Entries 66
Mean 515.4
Std Dev 489.5
pull1D
Entries 66
Mean 0.03708
Std Dev 2.434

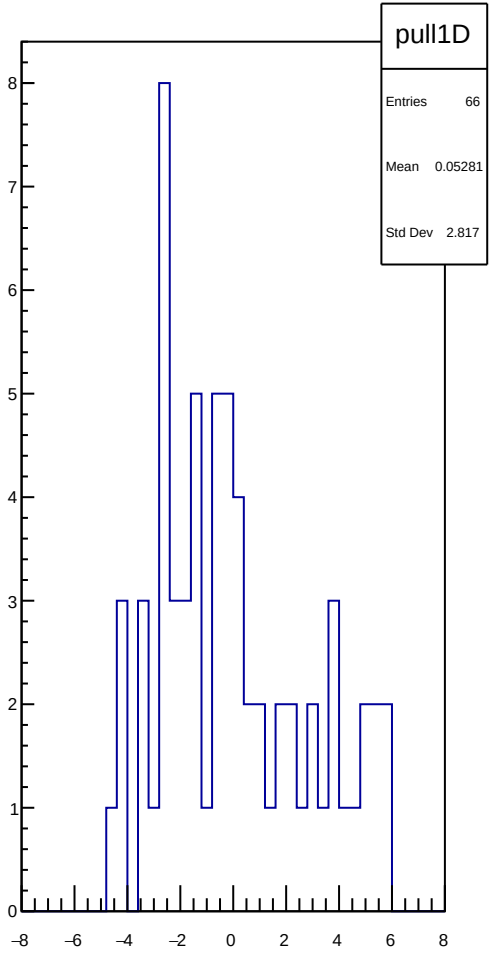

asym_bpm1i02WS_rms vs run
χ² / ndf 3201 / 65
p0 183.6 ± 0.1618
220
210
200
190
180
170
160

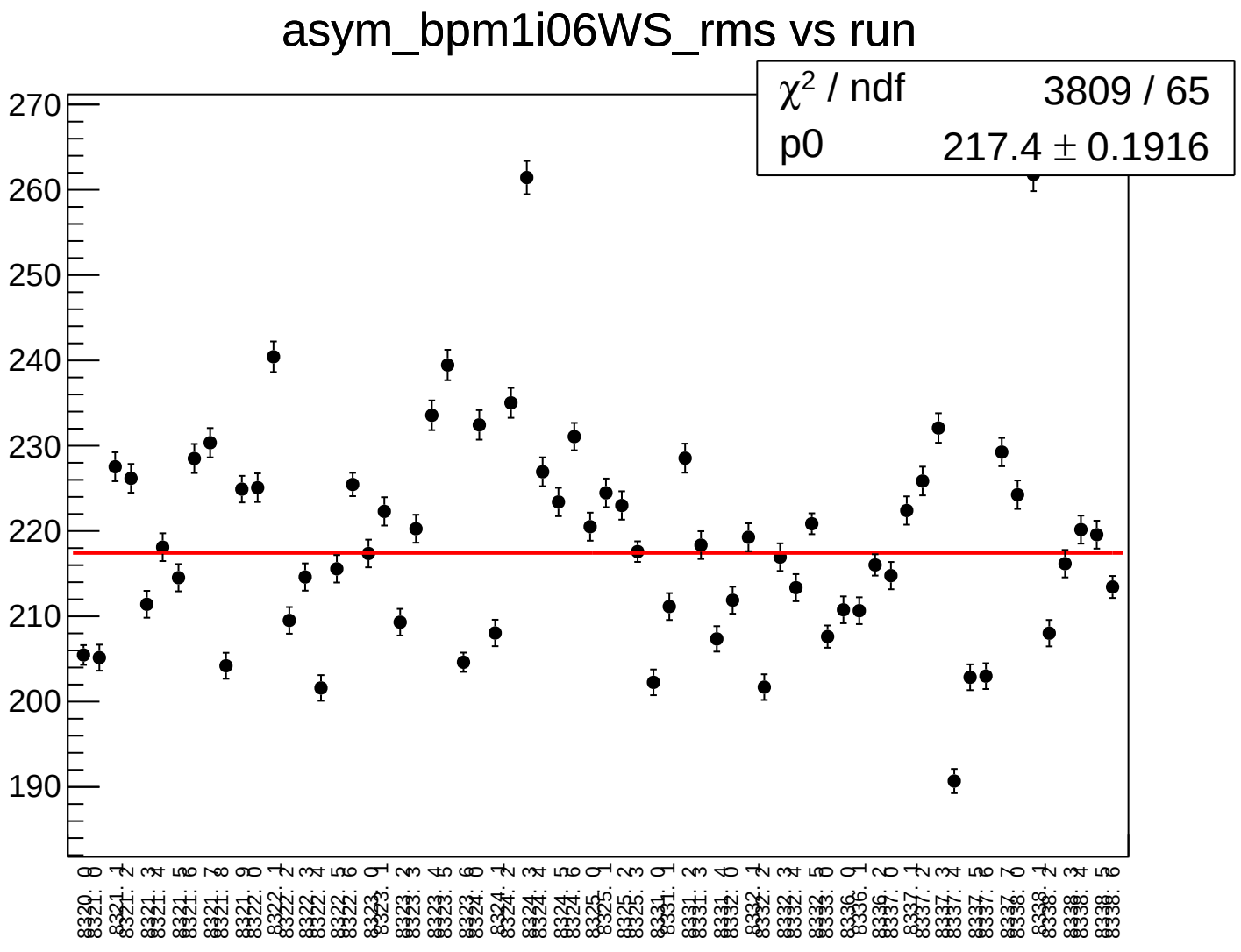

asym_bpm1i04WS_mean vs run
χ² / ndf 503.8 / 65
p0 −649.3 ± 211.6
10000
5000
0
−5000
−10000
pull
Entries 66
Mean 279.3
Std Dev 252.4

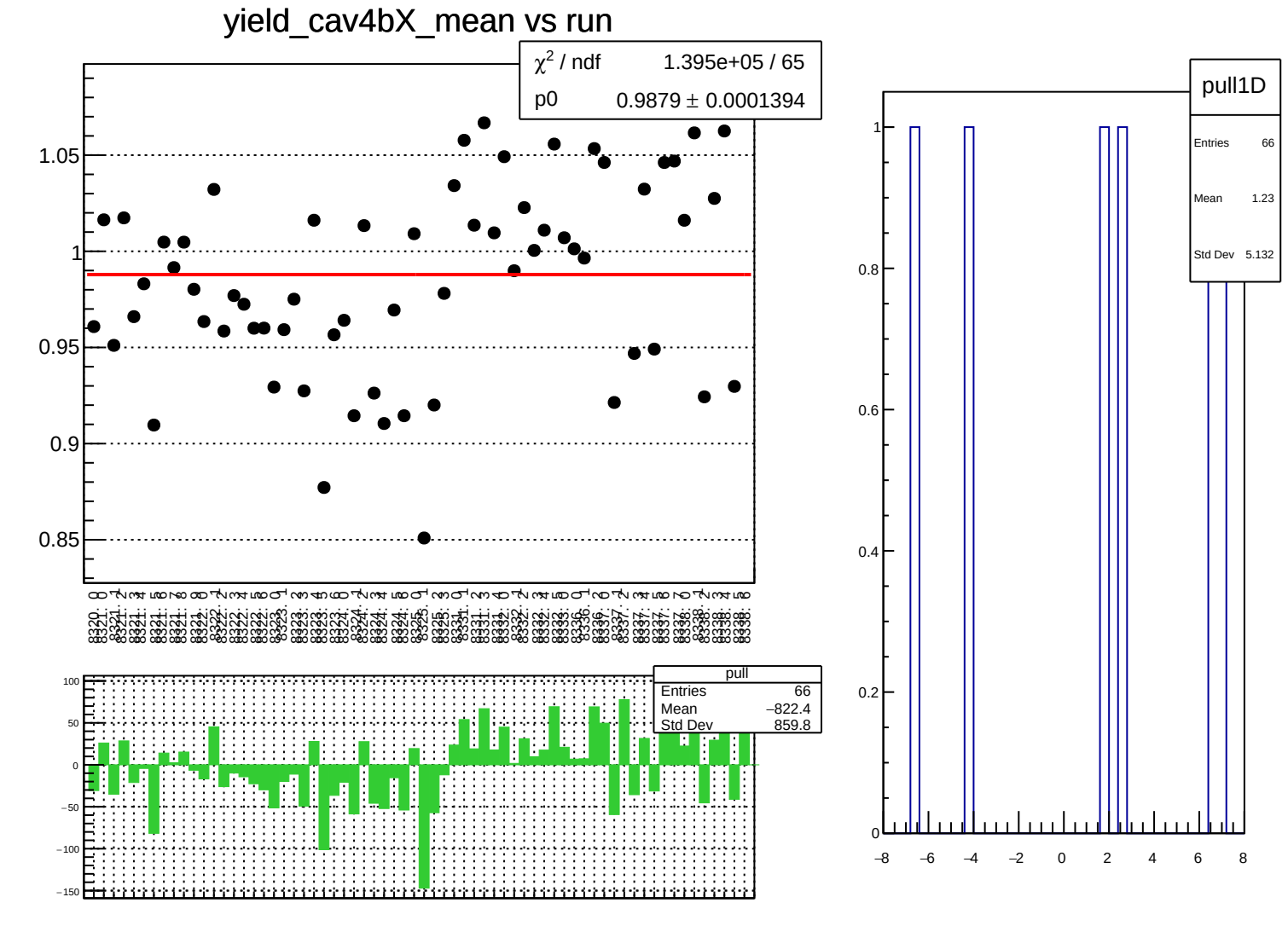

pull1D
Entries 66
Mean 0.08597
Std Dev 2.762

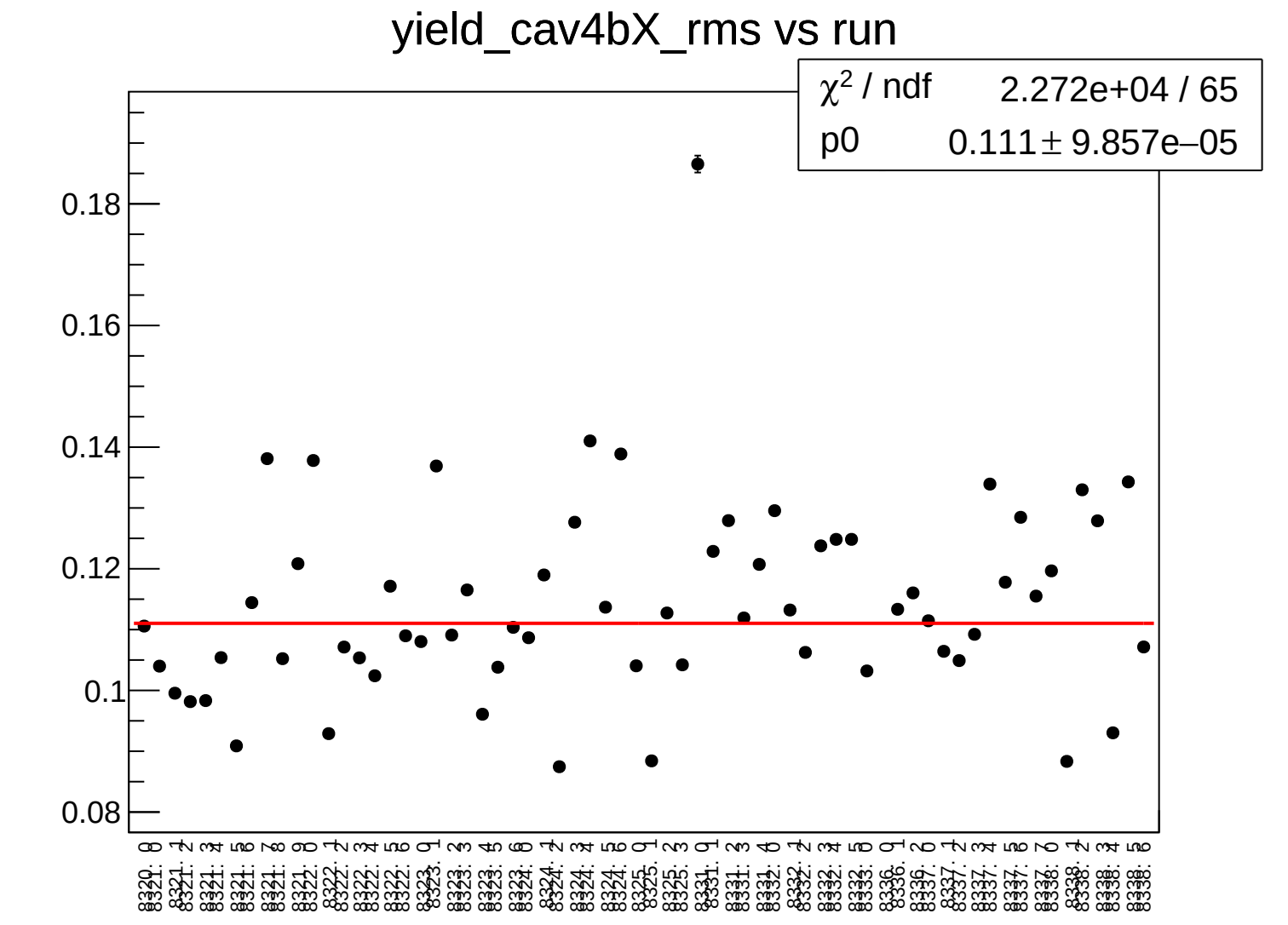

asym_bpm1i04WS_rms vs run
χ² / ndf 3806 / 65
p0 169.8 ± 0.1496
220
210
200
190
180
170
160
150

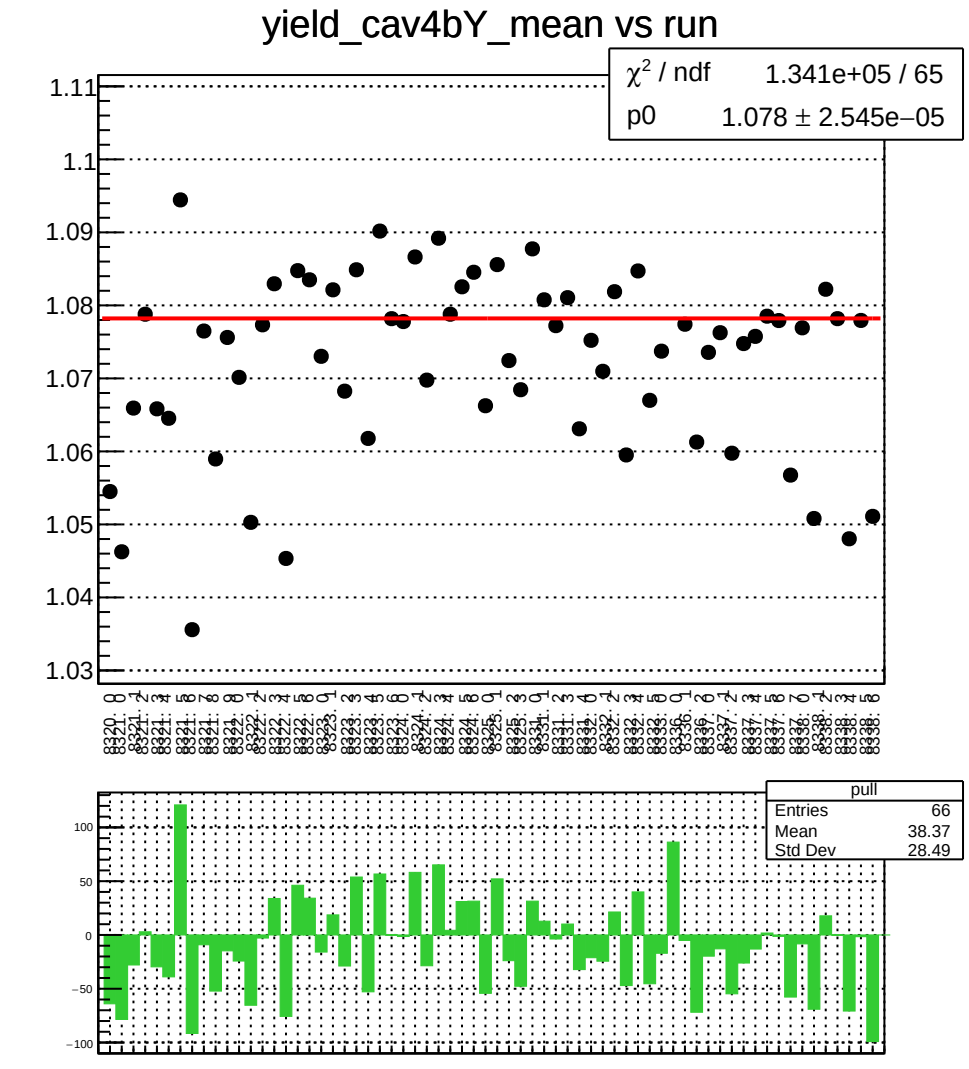

asym_bpm1i06WS_mean vs run
χ² / ndf 523.9 / 65
p0 −1506 ± 271
pull
Entries 66
Mean 395.3
Std Dev 370.8

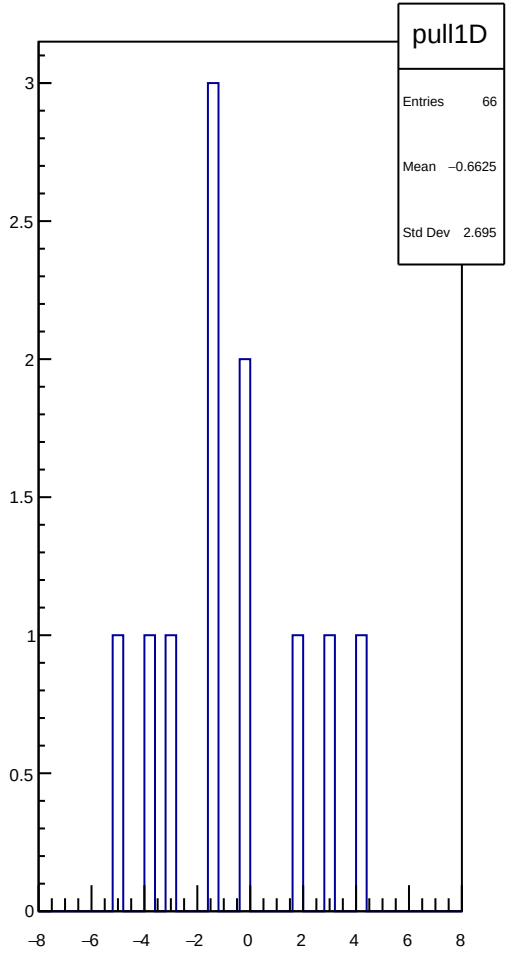

pull1D
Entries 66
Mean 0.05281
Std Dev 2.817

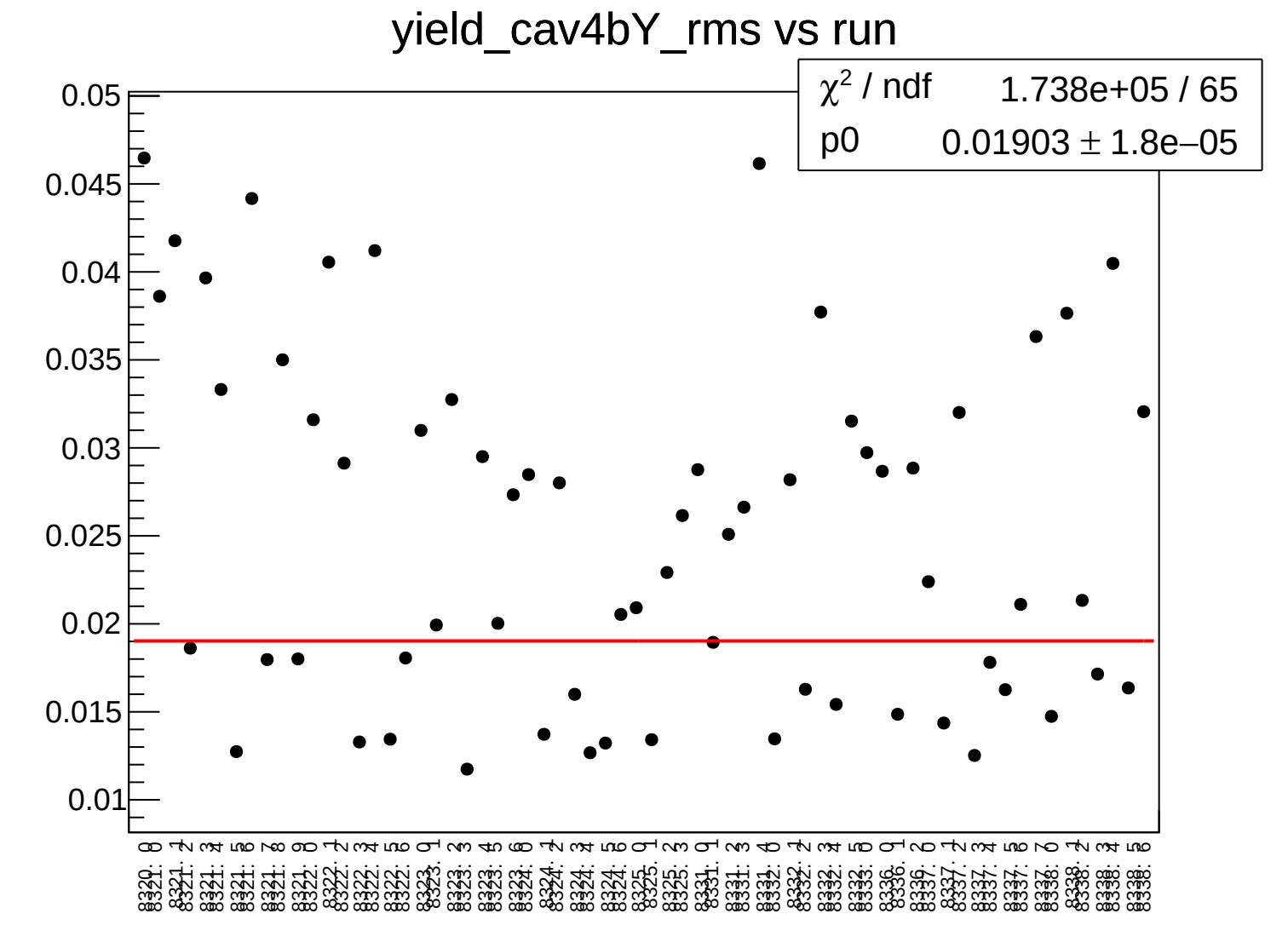

asym_bpm1i06WS_rms vs run
χ² / ndf 3809 / 65
p0 217.4 ± 0.1916
270
260
250
240
230
220
210
200
190

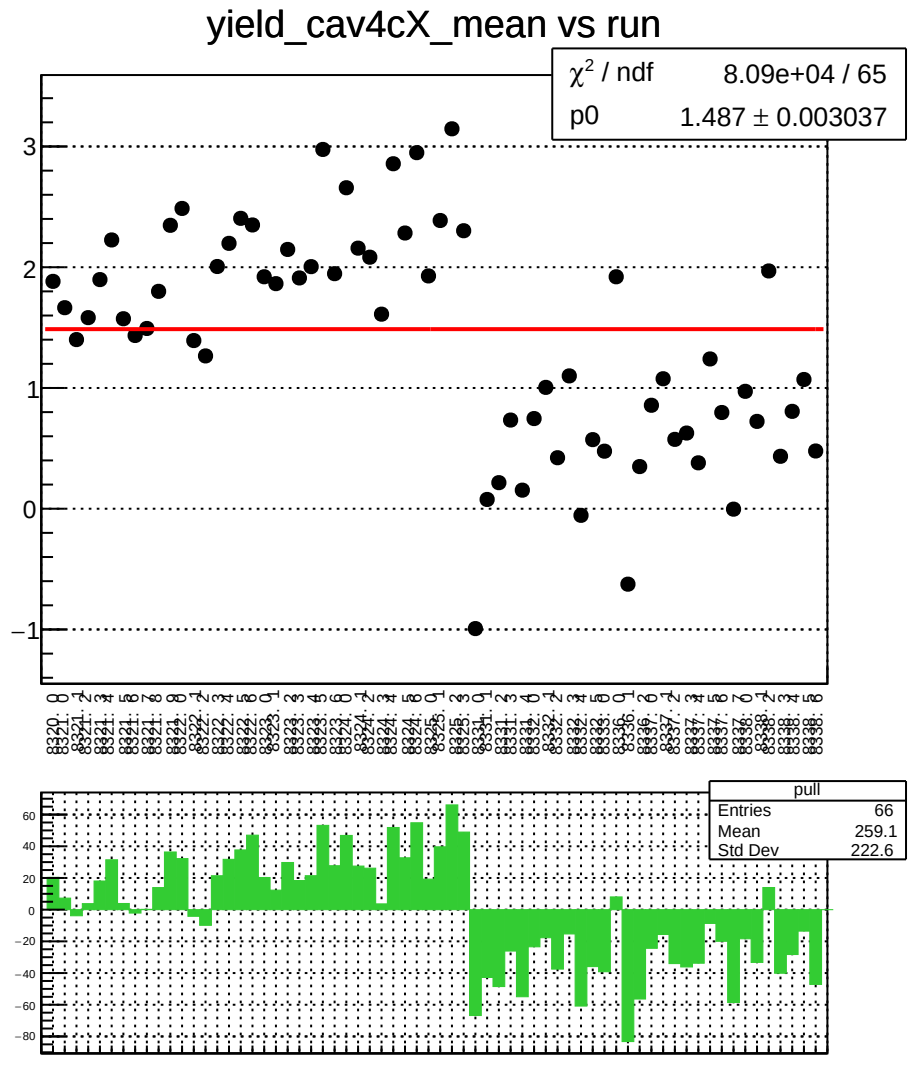

yield_cav4bX_mean vs run
χ² / ndf 1.395e+05 / 65
p0 0.9879 ± 0.0001394
1.05
1
0.95
0.9
0.85
pull
Entries 66
Mean −822.4
Std Dev 859.8
100
50
0
−50
−100
−150
pull1D
Entries 66
Mean 1.23
Std Dev 5.132
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

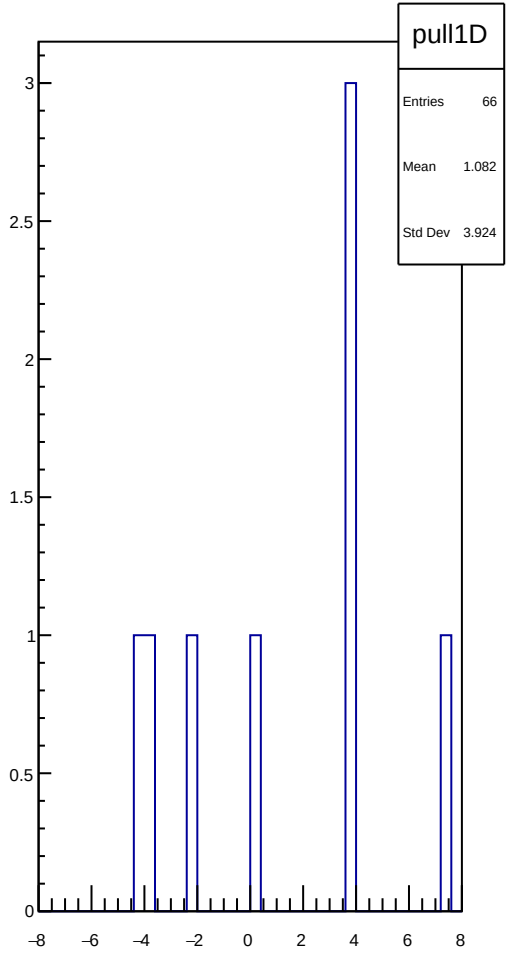

yield_cav4bX_rms vs run
χ² / ndf 2.272e+04 / 65
p0 0.111 ± 9.857e–05
0.18
0.16
0.14
0.12
0.1
0.08

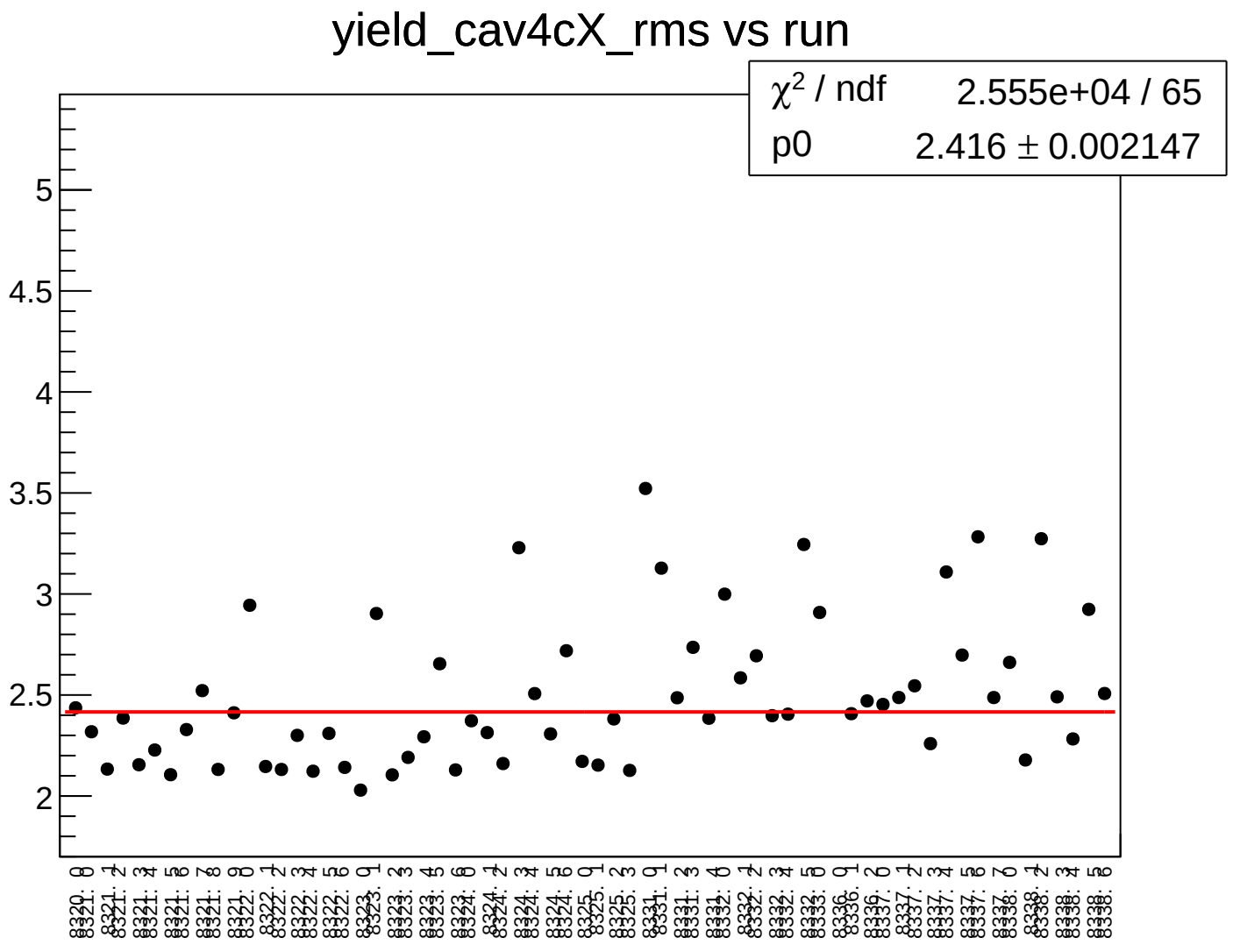

yield_cav4bY_mean vs run
χ² / ndf 1.341e+05 / 65
p0 1.078 ± 2.545e−05
pull
Entries 66
Mean 38.37
Std Dev 28.49

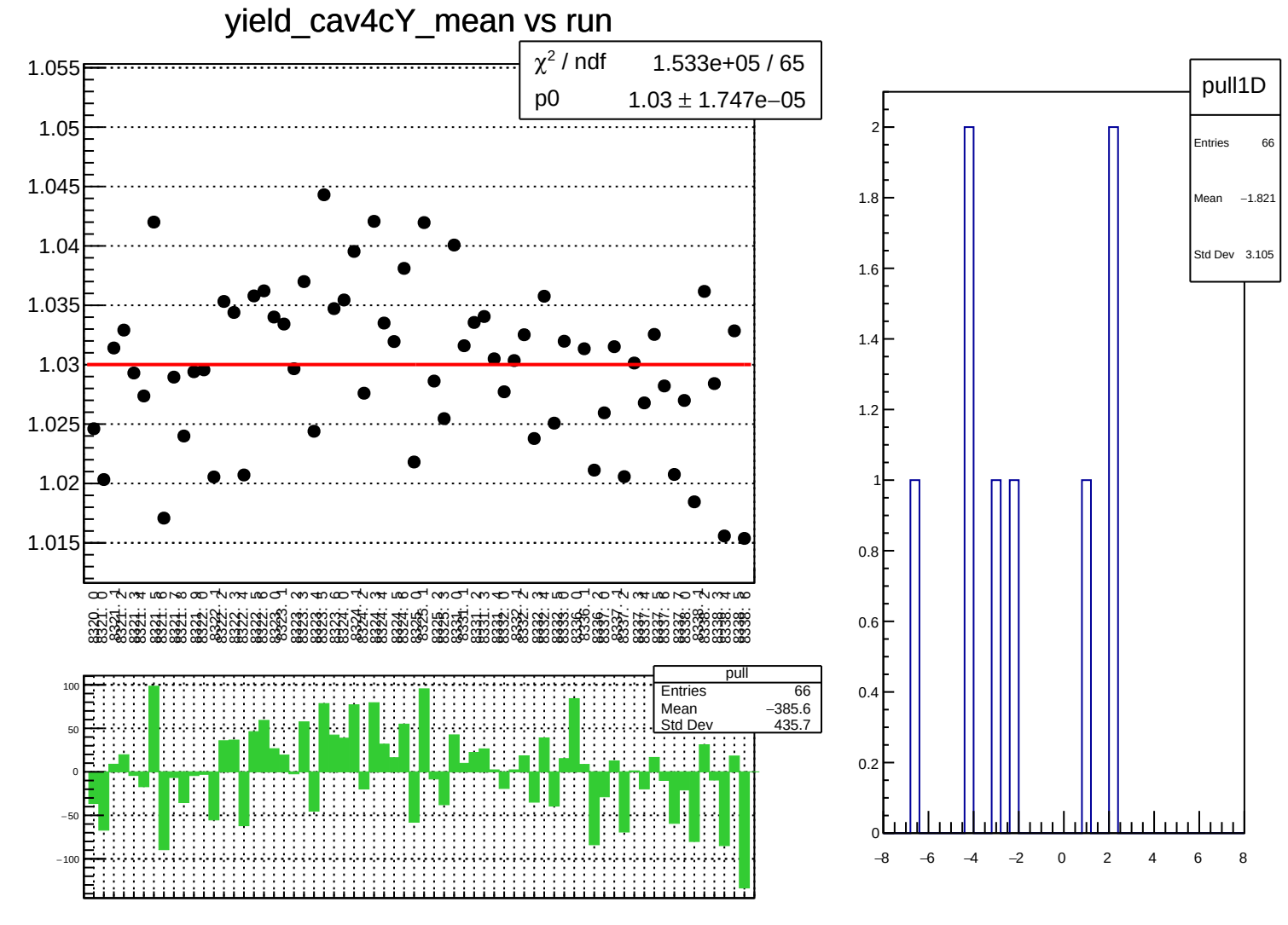

pull1D
Entries 66
Mean −0.6625
Std Dev 2.695

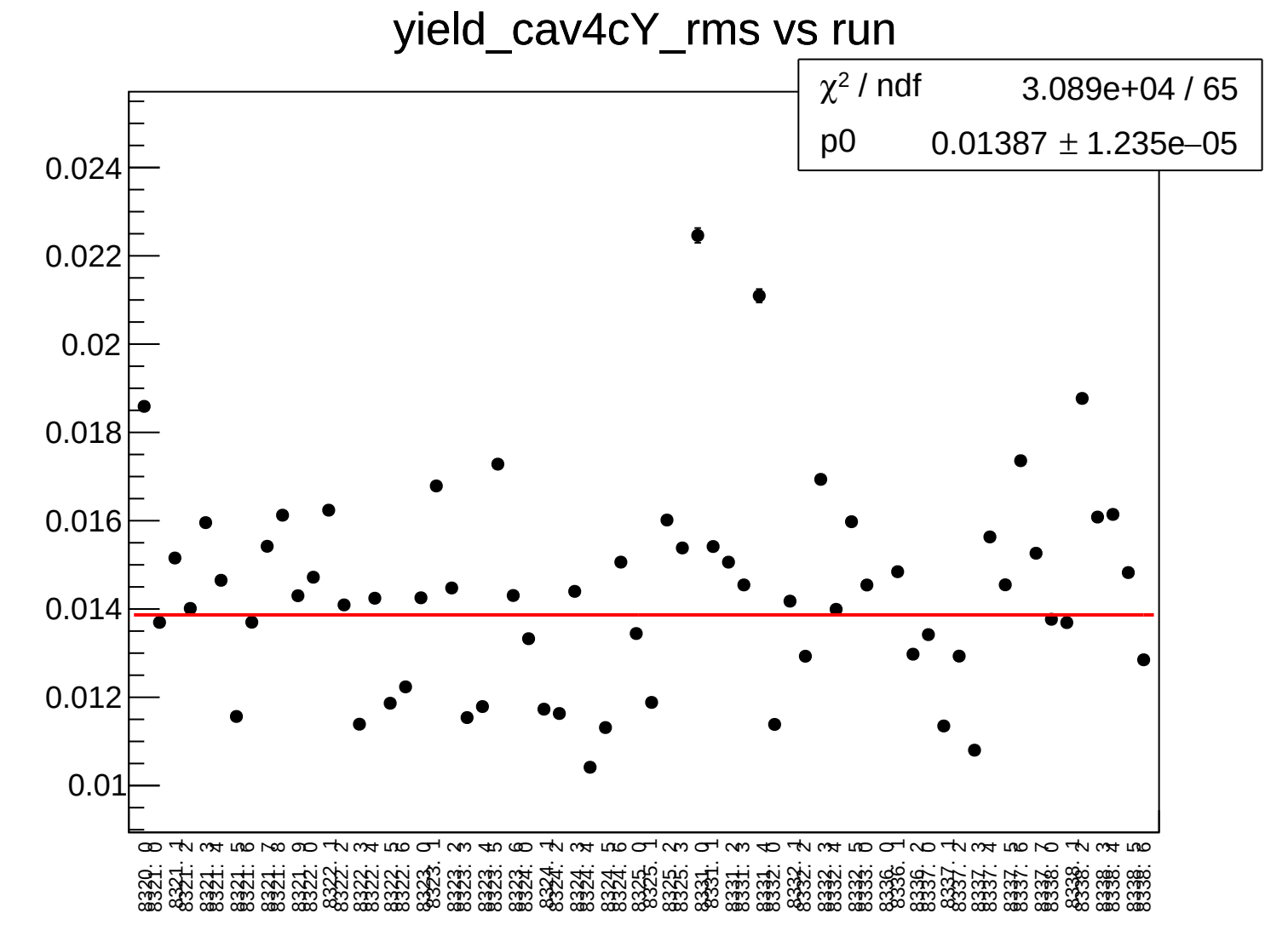

yield_cav4bY_rms vs run
χ² / ndf 1.738e+05 / 65
p0 0.01903 ± 1.8e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

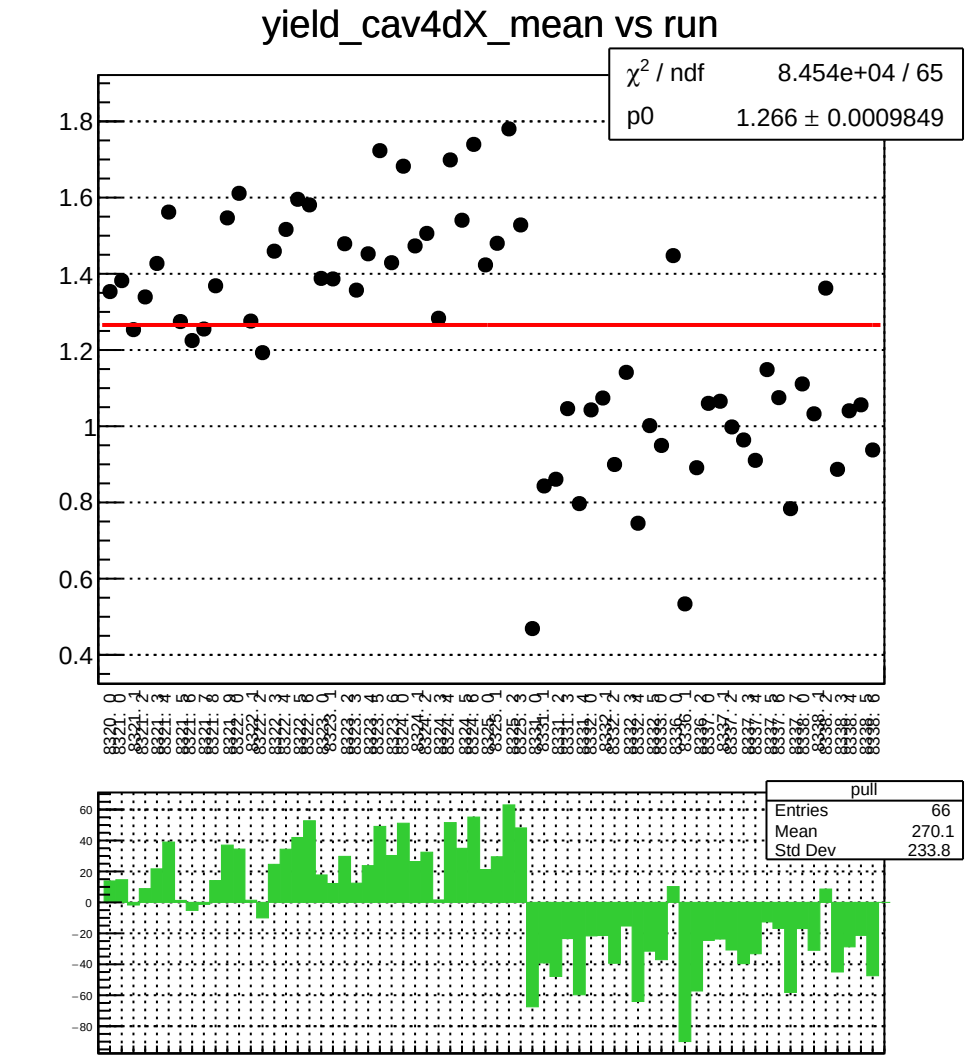

yield_cav4cX_mean vs run
χ² / ndf 8.09e+04 / 65
p0 1.487 ± 0.003037
pull
Entries 66
Mean 259.1
Std Dev 222.6

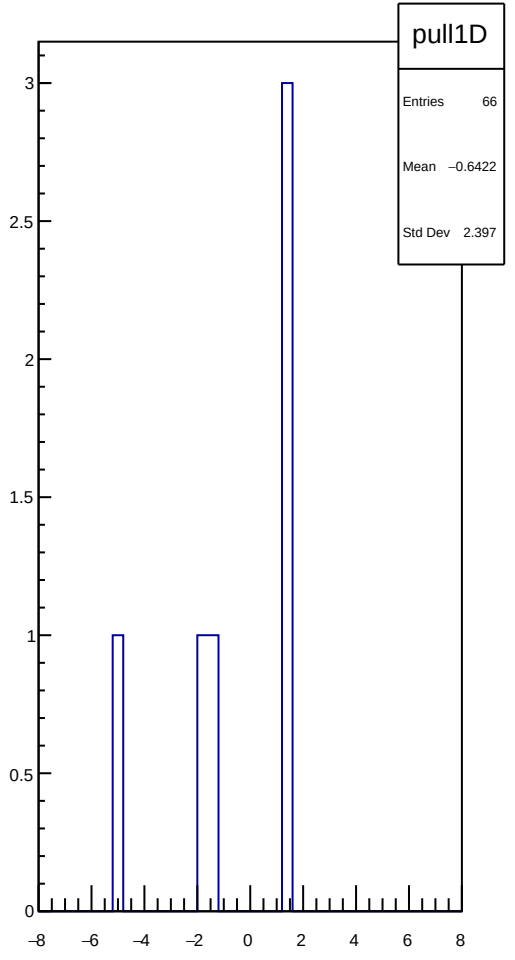

pull1D
Entries 66
Mean 1.082
Std Dev 3.924

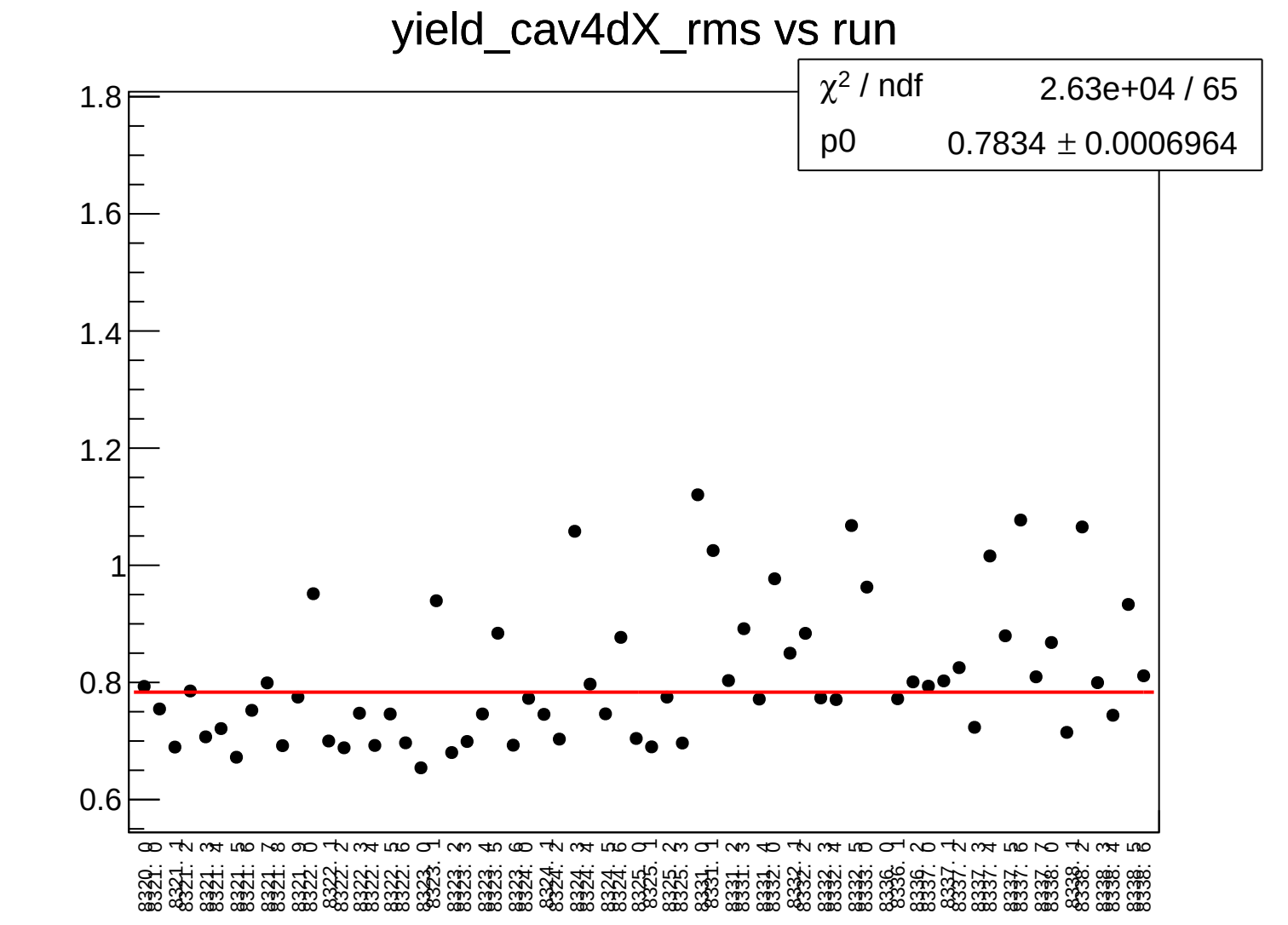

yield_cav4cX_rms vs run
χ^2 / ndf 2.555e+04 / 65
p0 2.416 ± 0.002147
5
4.5
4
3.5
3
2.5
2

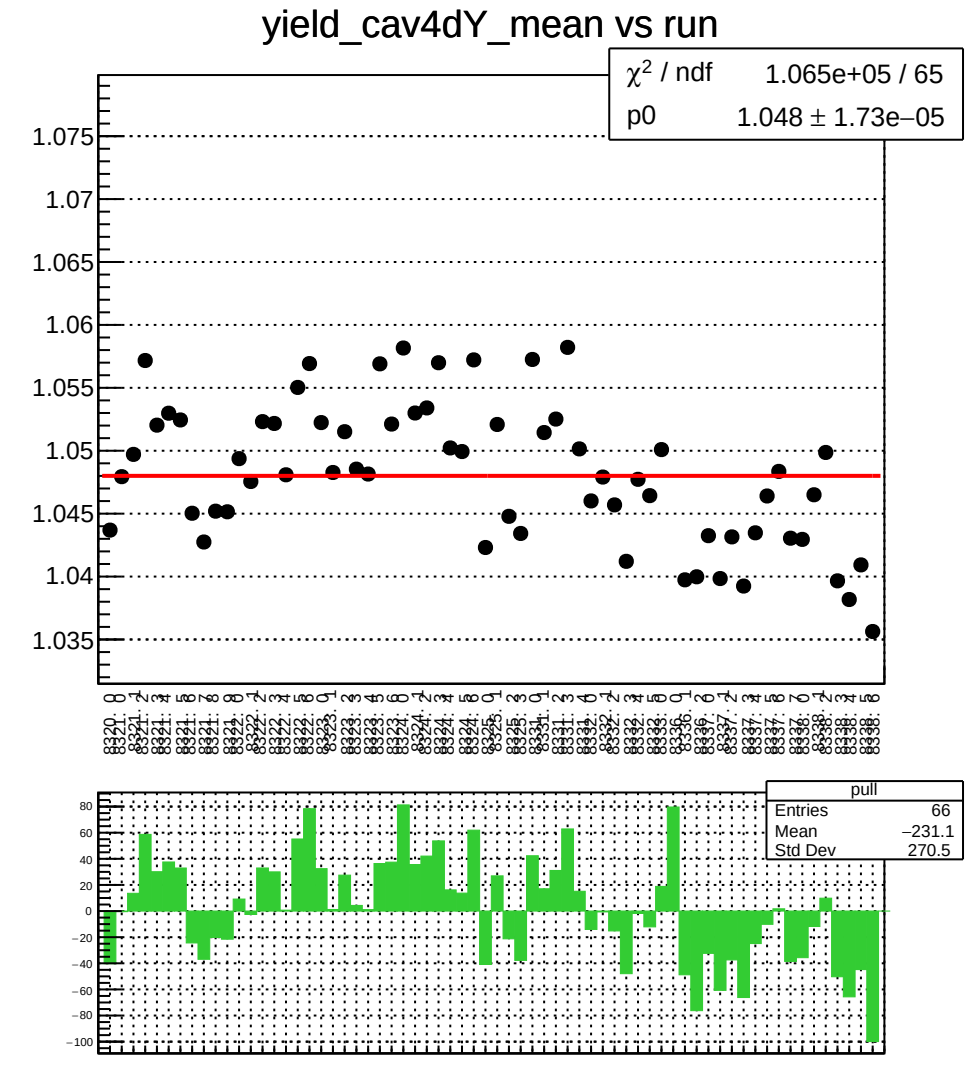

yield_cav4cY_mean vs run
χ² / ndf 1.533e+05 / 65
p0 1.03 ± 1.747e−05
1.055
1.05
1.045
1.04
1.035
1.03
1.025
1.02
1.015
pull
Entries 66
Mean −385.6
Std Dev 435.7
100
50
0
−50
−100
pull1D
Entries 66
Mean −1.821
Std Dev 3.105
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

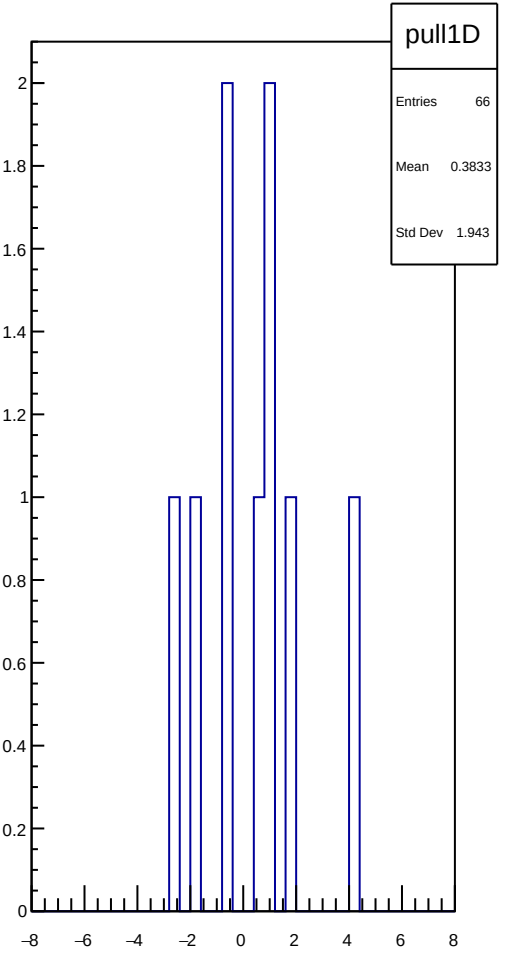

yield_cav4cY_rms vs run
χ² / ndf 3.089e+04 / 65
p0 0.01387 ± 1.235e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

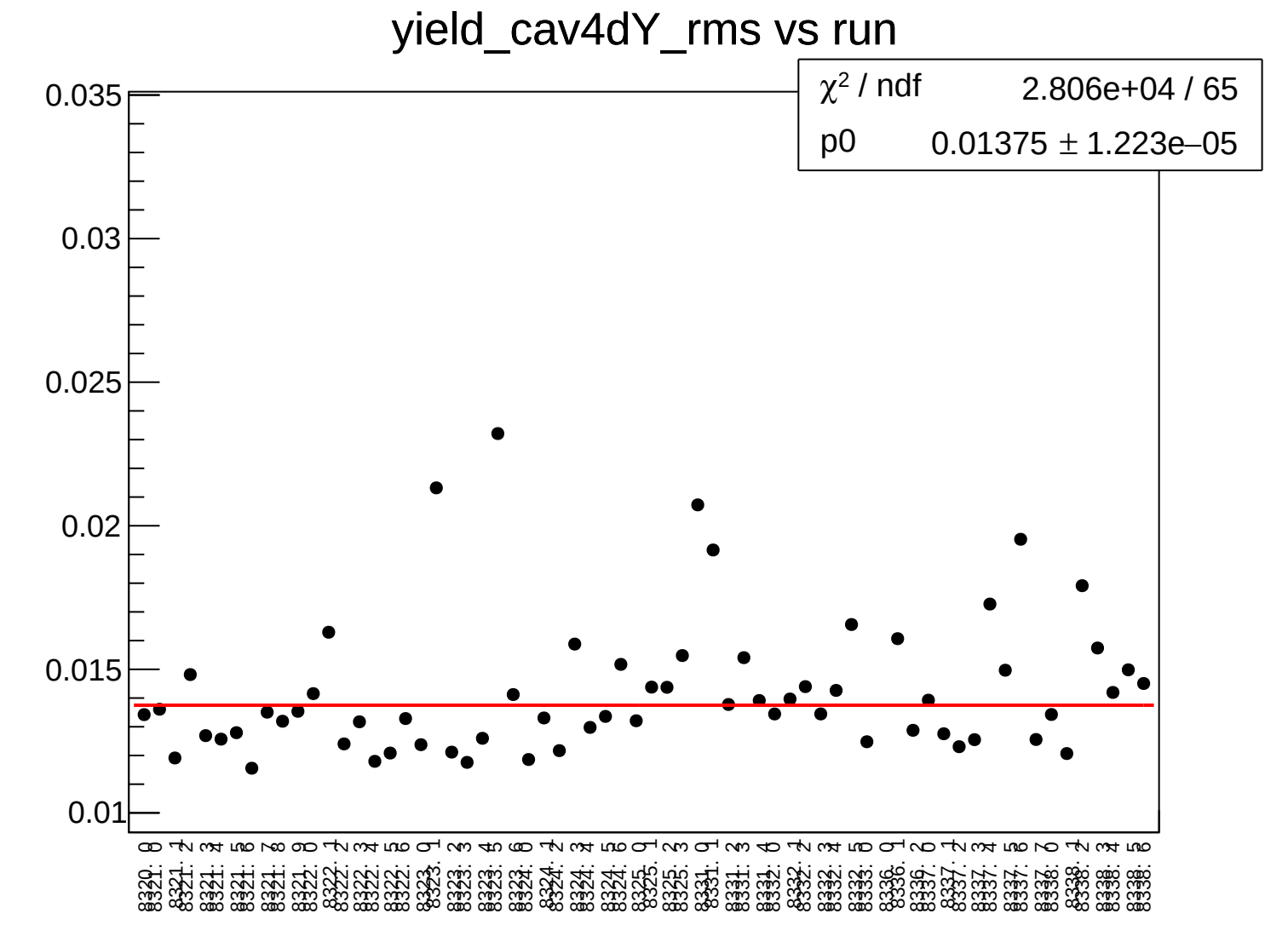

yield_cav4dX_mean vs run
χ² / ndf 8.454e+04 / 65
p0 1.266 ± 0.0009849
pull
Entries 66
Mean 270.1
Std Dev 233.8

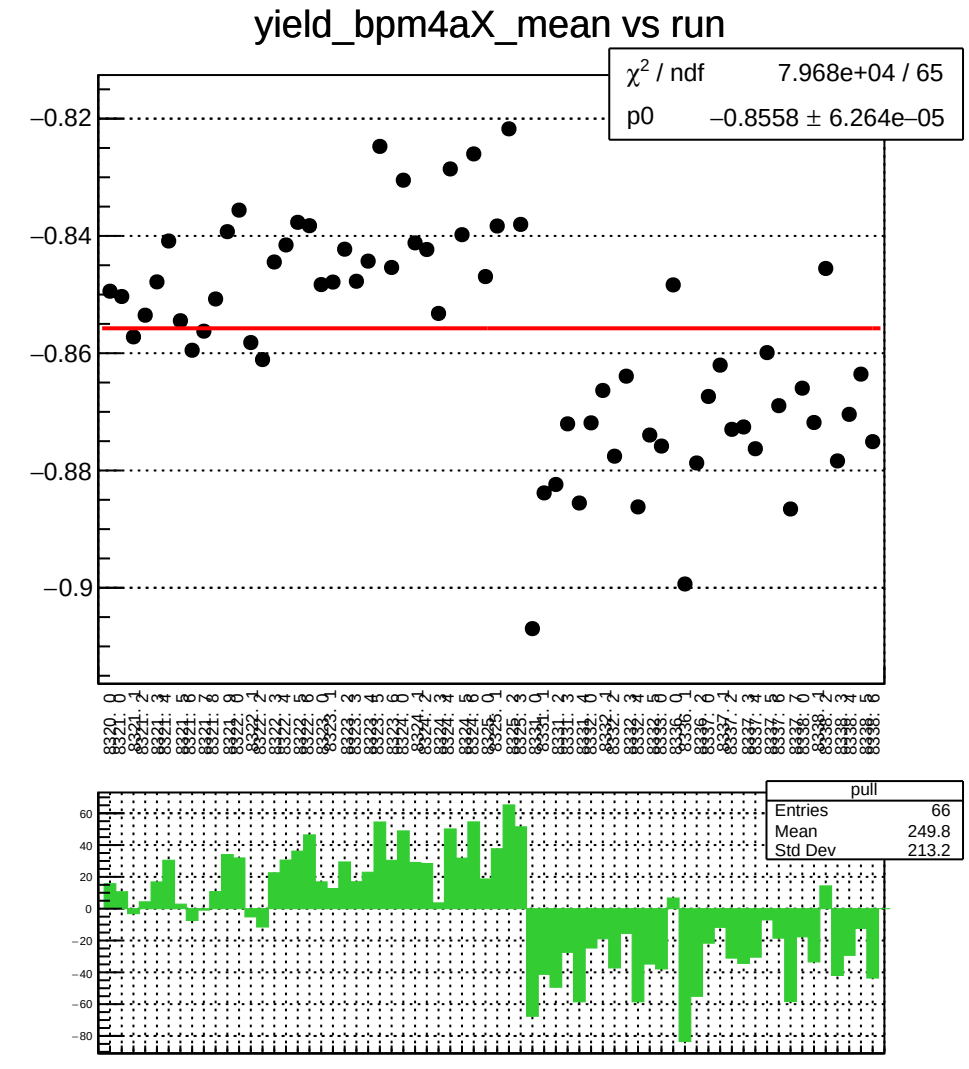

pull1D
Entries 66
Mean −0.6422
Std Dev 2.397

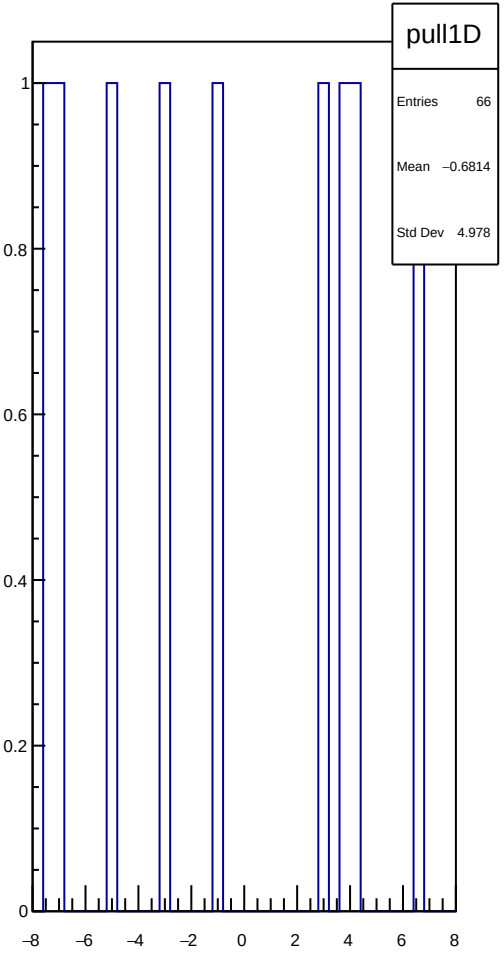

yield_cav4dX_rms vs run
χ² / ndf 2.63e+04 / 65
p0 0.7834 ± 0.0006964
1.8
1.6
1.4
1.2
1
0.8
0.6

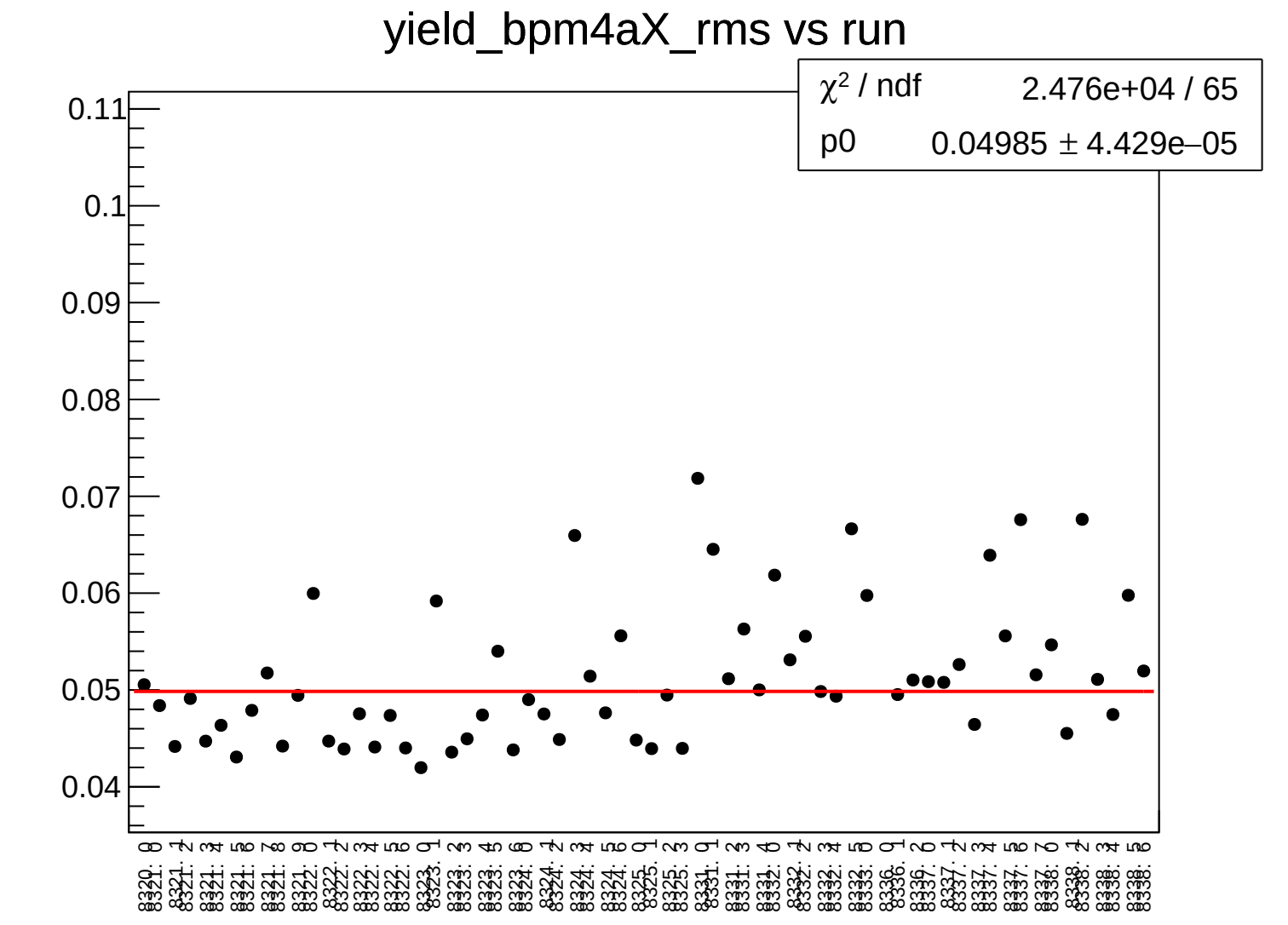

yield_cav4dY_mean vs run
χ² / ndf 1.065e+05 / 65
p0 1.048 ± 1.73e−05
pull
Entries 66
Mean −231.1
Std Dev 270.5

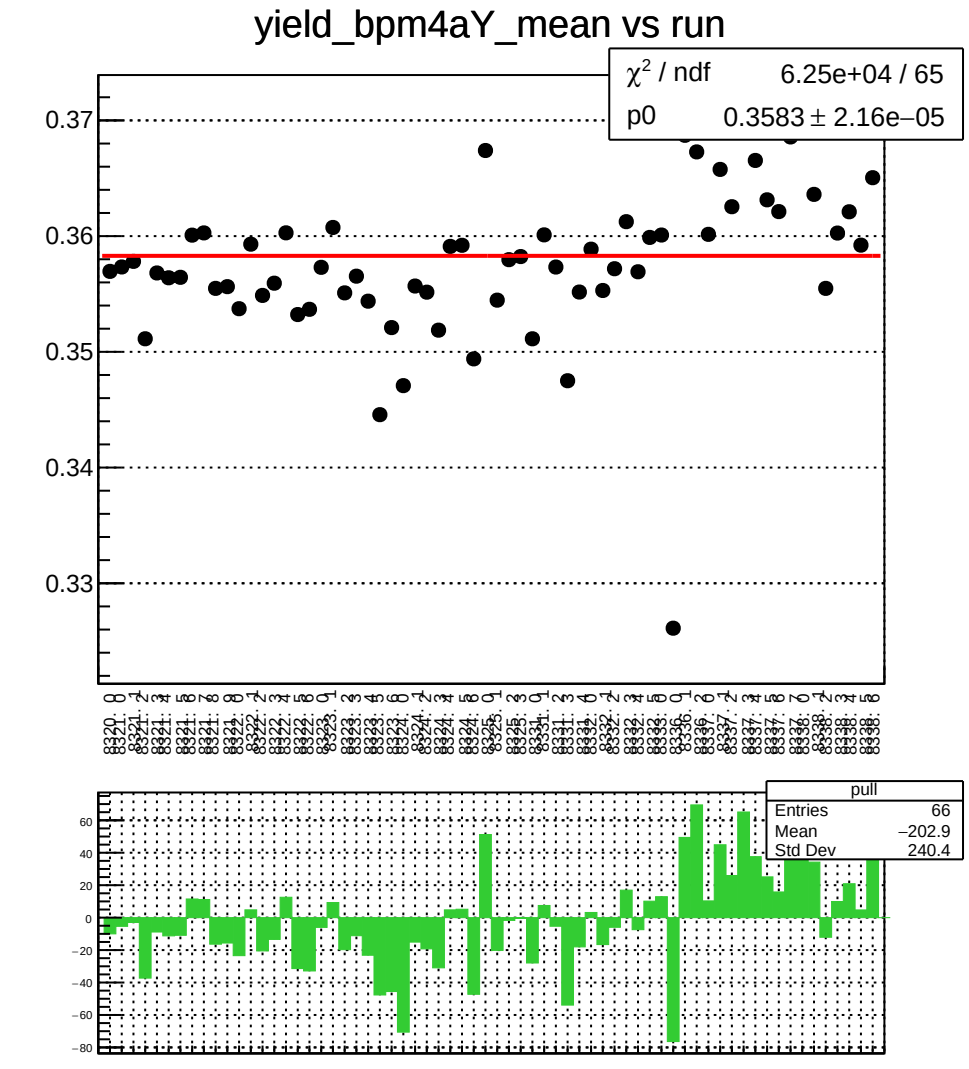

pull1D
Entries 66
Mean 0.3833
Std Dev 1.943

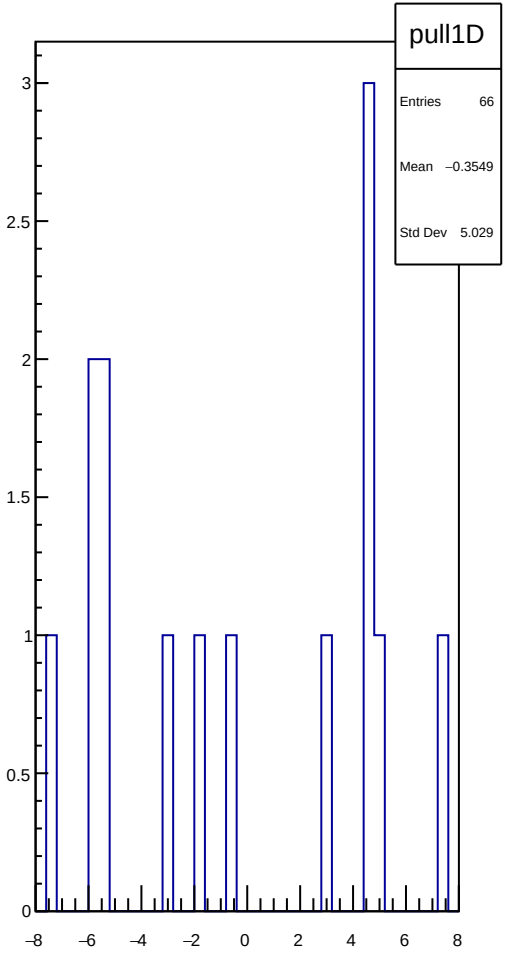

yield_cav4dY_rms vs run
χ² / ndf 2.806e+04 / 65
p0 0.01375 ± 1.223e−05
0.035
0.03
0.025
0.02
0.015
0.01

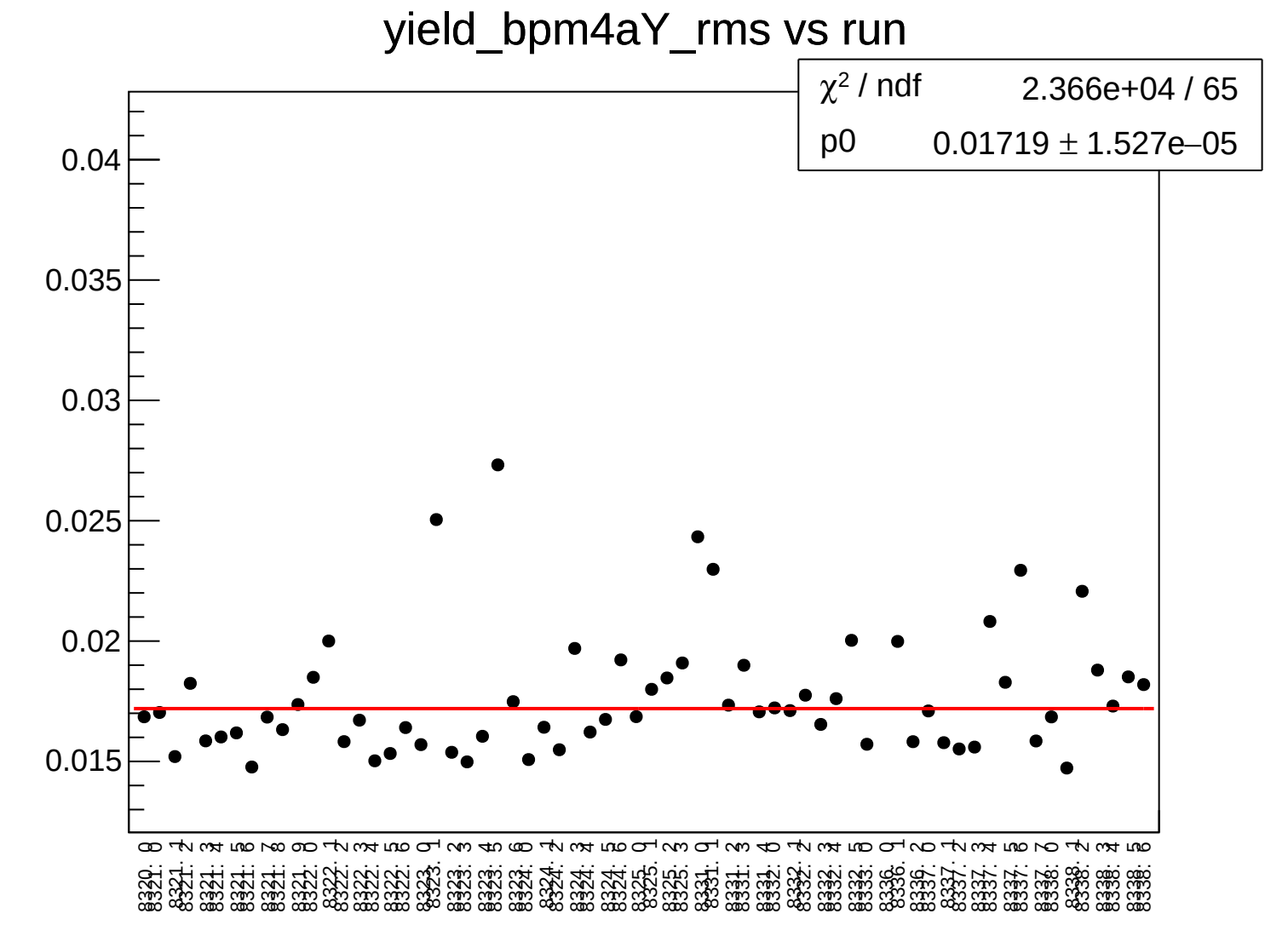

yield_bpm4aX_mean vs run
χ² / ndf 7.968e+04 / 65
p0 −0.8558 ± 6.264e−05
−0.82
−0.84
−0.86
−0.88
−0.9
pull
Entries 66
Mean 249.8
Std Dev 213.2
60
40
20
0
−20
−40
−60
−80

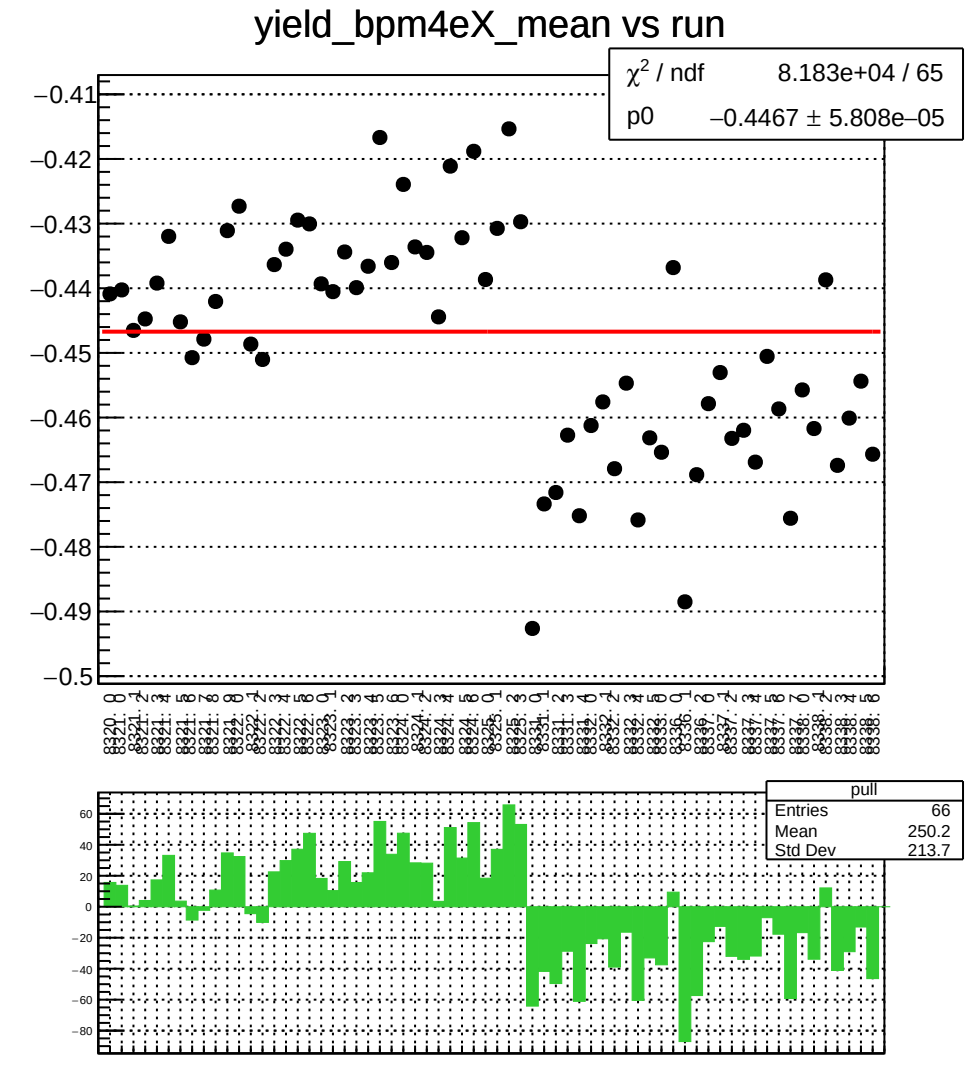

pull1D
Entries 66
Mean −0.6814
Std Dev 4.978
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

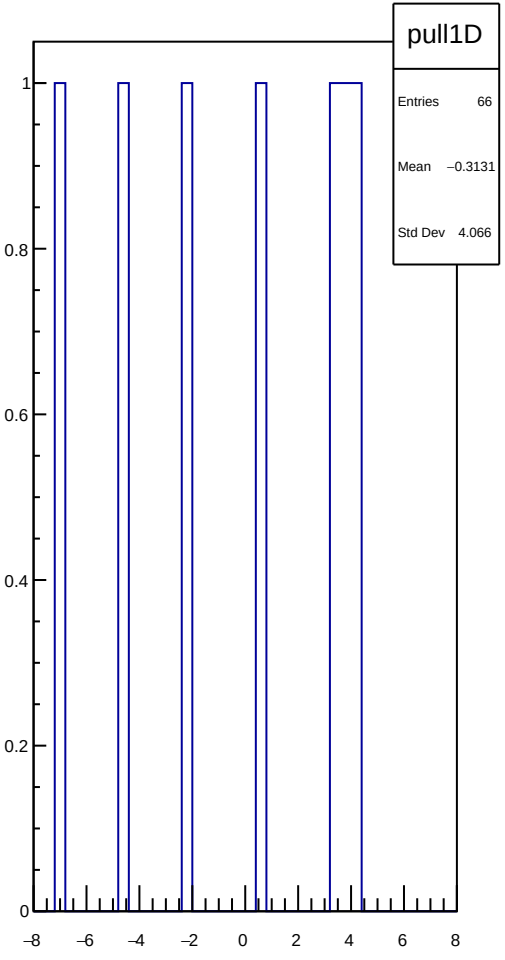

yield_bpm4aX_rms vs run
χ² / ndf 2.476e+04 / 65
p0 0.04985 ± 4.429e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

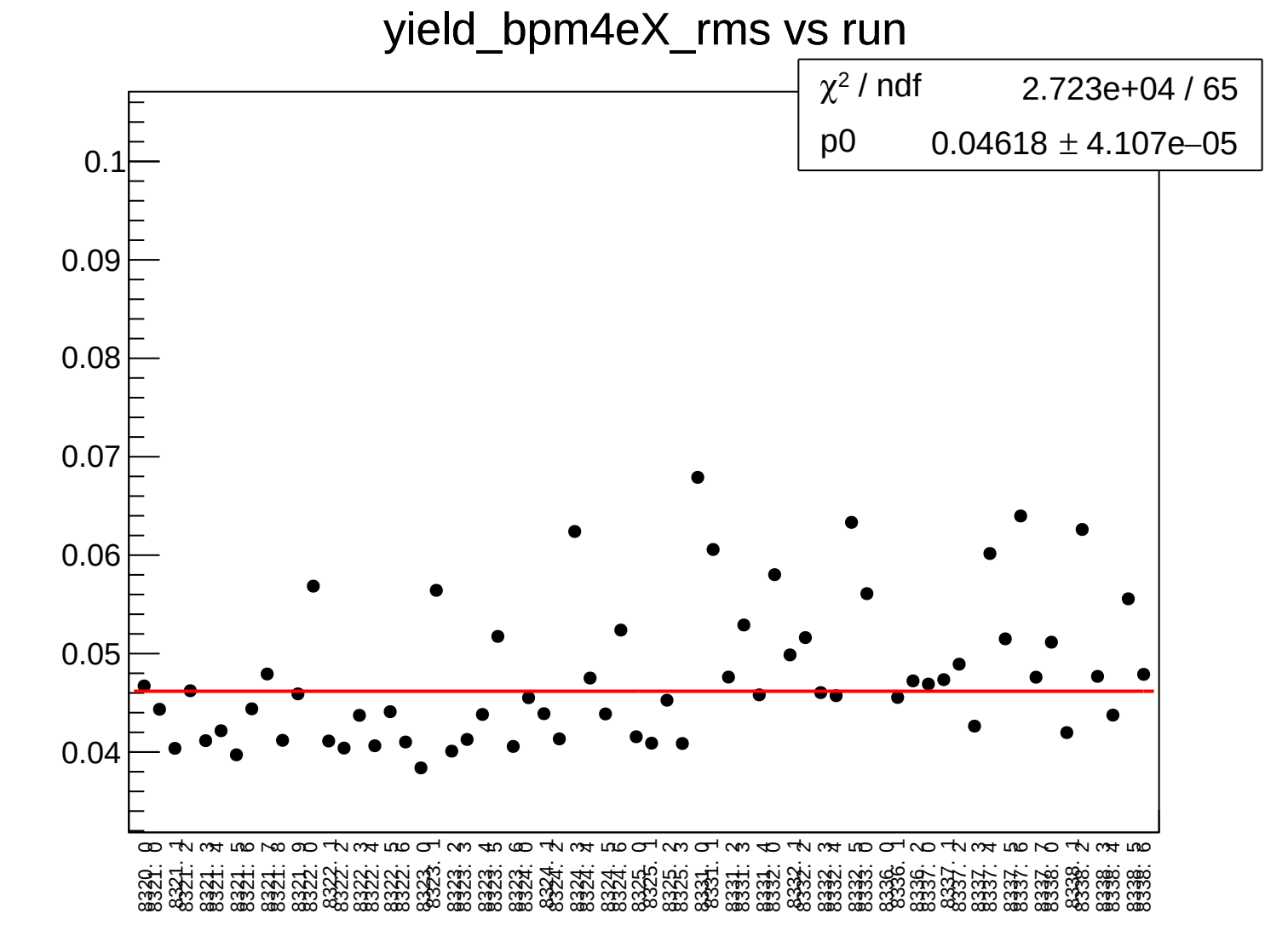

yield_bpm4aY_mean vs run
χ² / ndf 6.25e+04 / 65
p0 0.3583 ± 2.16e−05
0.37
0.36
0.35
0.34
0.33
pull
Entries 66
Mean −202.9
Std Dev 240.4
60
40
20
0
−20
−40
−60
−80

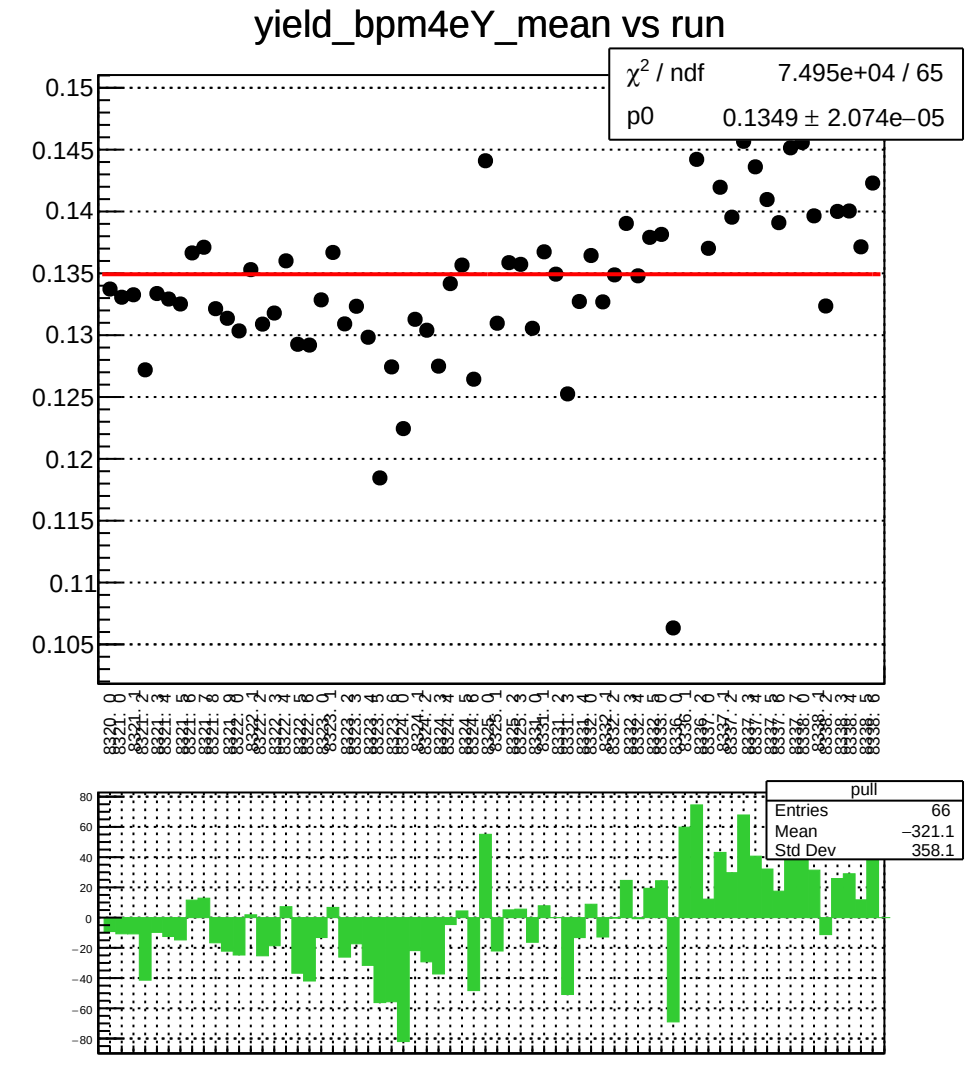

pull1D
Entries 66
Mean −0.3549
Std Dev 5.029
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

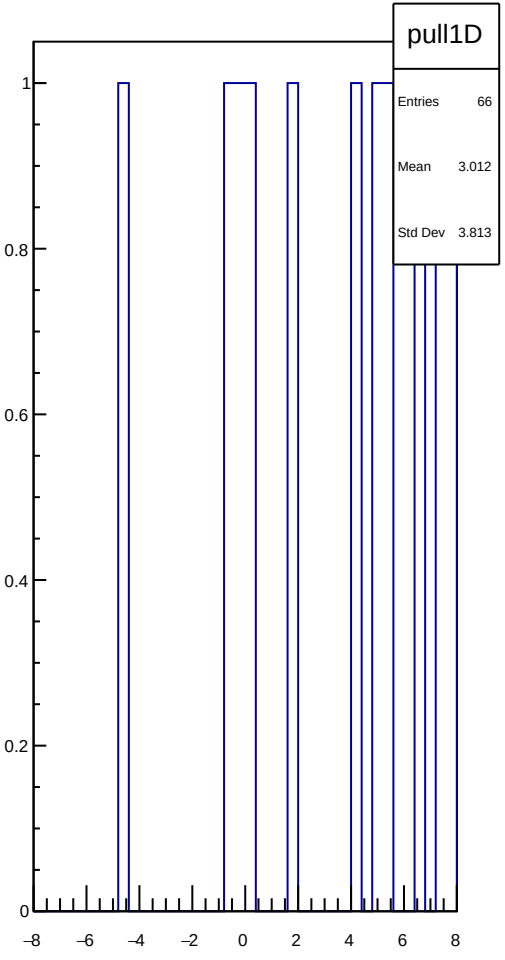

yield_bpm4aY_rms vs run
χ² / ndf 2.366e+04 / 65
p0 0.01719 ± 1.527e–05
0.04
0.035
0.03
0.025
0.02
0.015

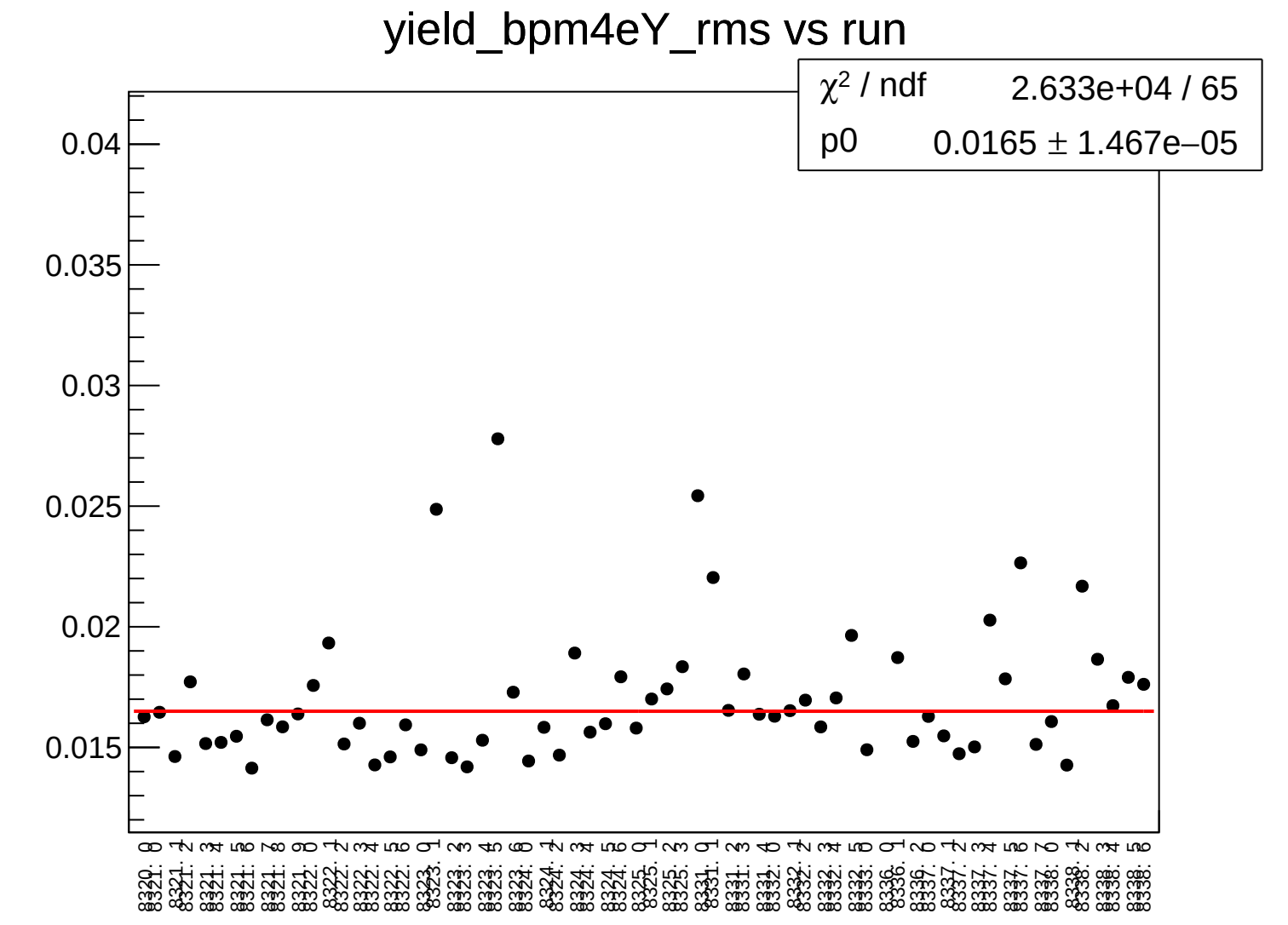

yield_bpm4eX_mean vs run
χ² / ndf 8.183e+04 / 65
p0 −0.4467 ± 5.808e−05
pull
Entries 66
Mean 250.2
Std Dev 213.7

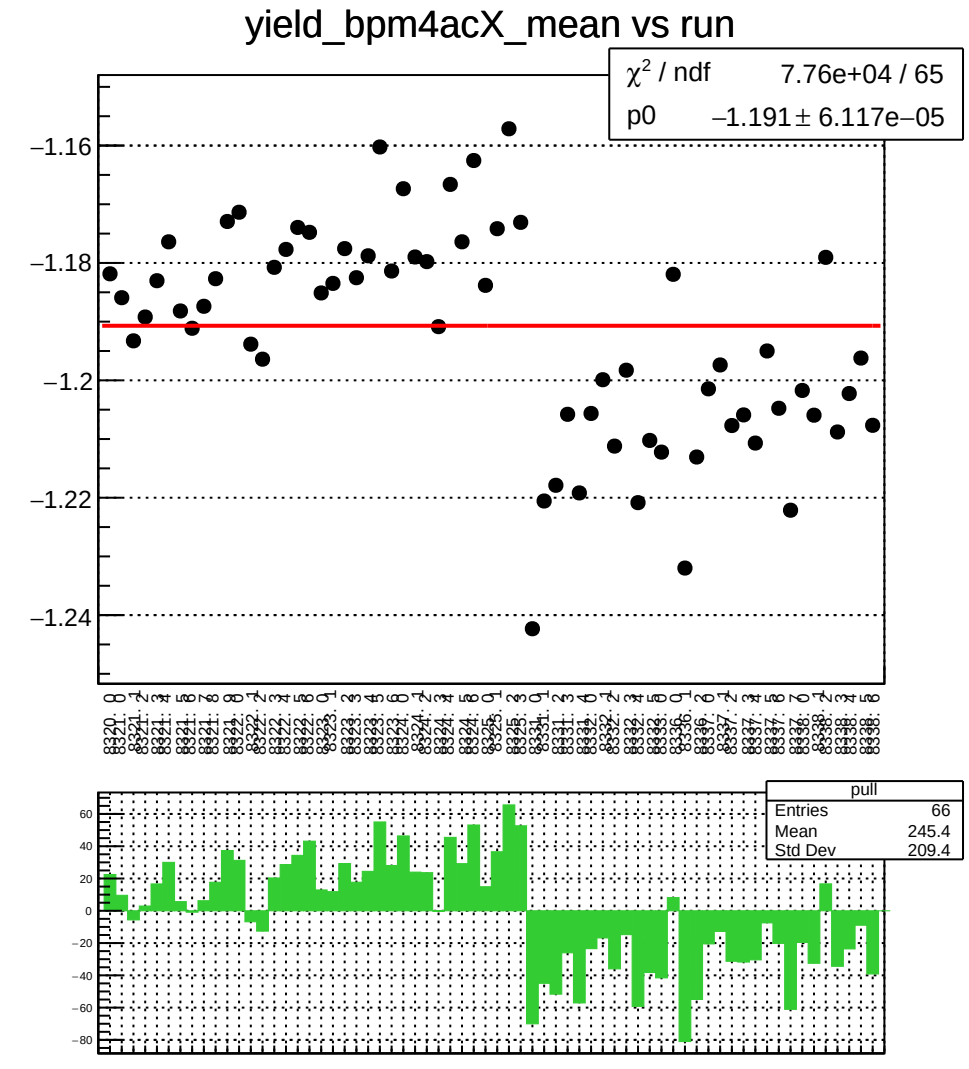

pull1D
Entries 66
Mean −0.3131
Std Dev 4.066

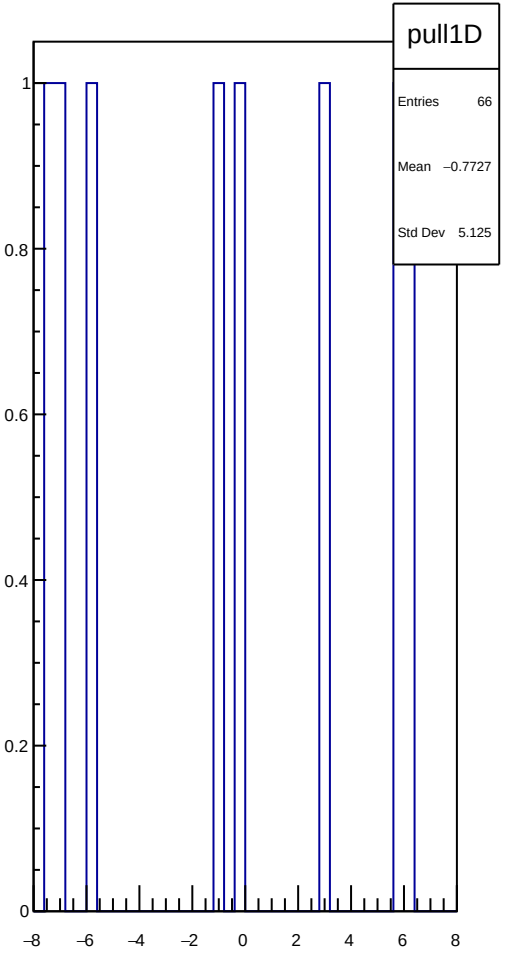

yield_bpm4eX_rms vs run
χ² / ndf 2.723e+04 / 65
p0 0.04618 ± 4.107e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

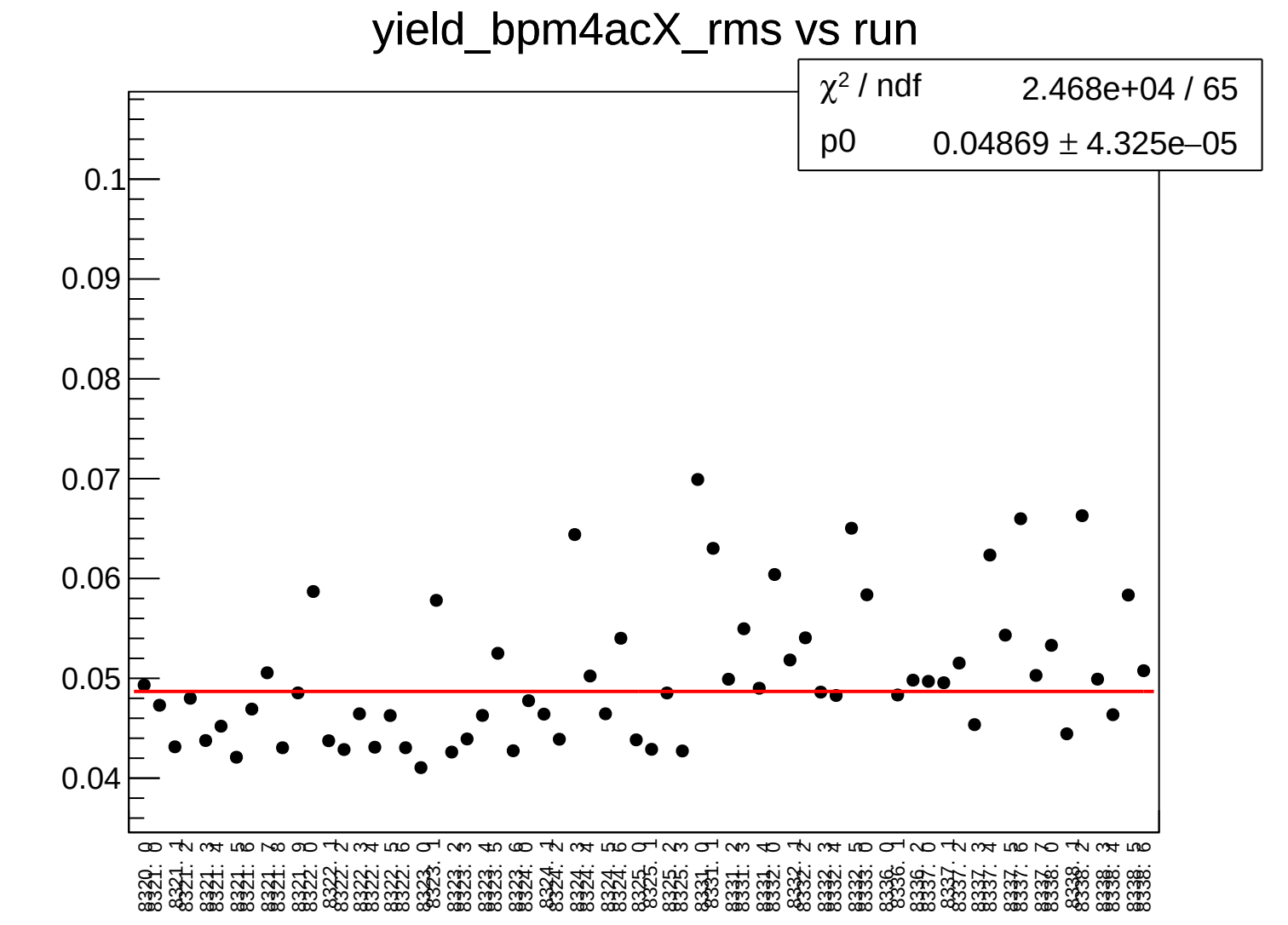

yield_bpm4eY_mean vs run
χ² / ndf 7.495e+04 / 65
p0 0.1349 ± 2.074e−05
pull
Entries 66
Mean −321.1
Std Dev 358.1

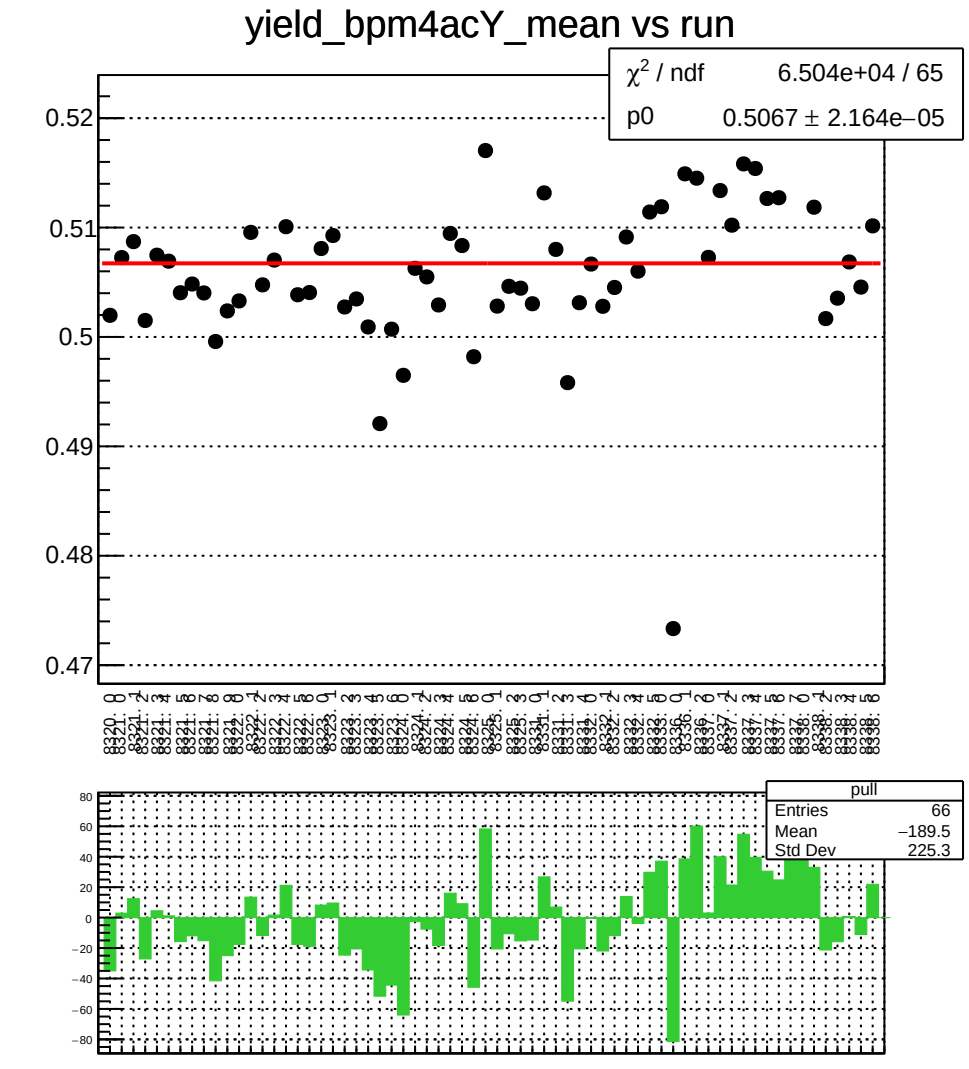

pull1D
Entries 66
Mean 3.012
Std Dev 3.813

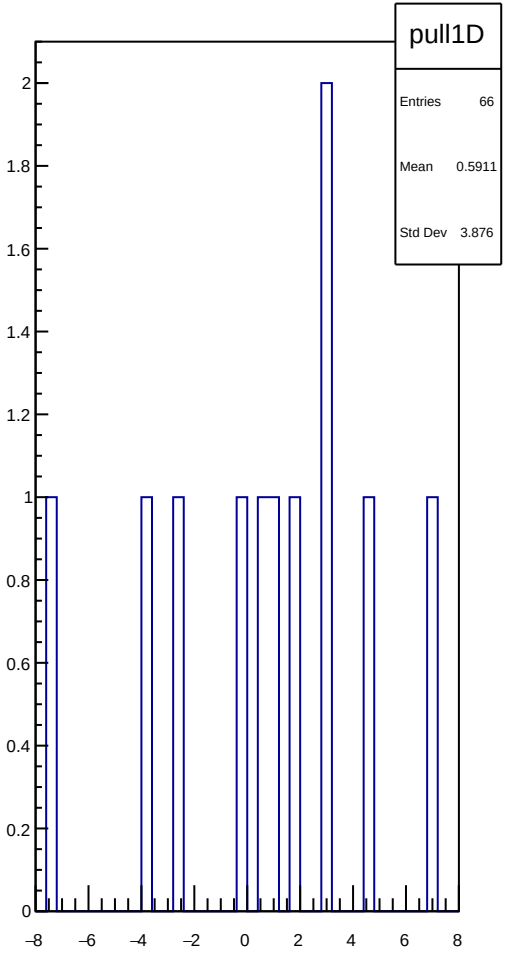

yield_bpm4eY_rms vs run
χ² / ndf 2.633e+04 / 65
p0 0.0165 ± 1.467e−05
0.04
0.035
0.03
0.025
0.02
0.015

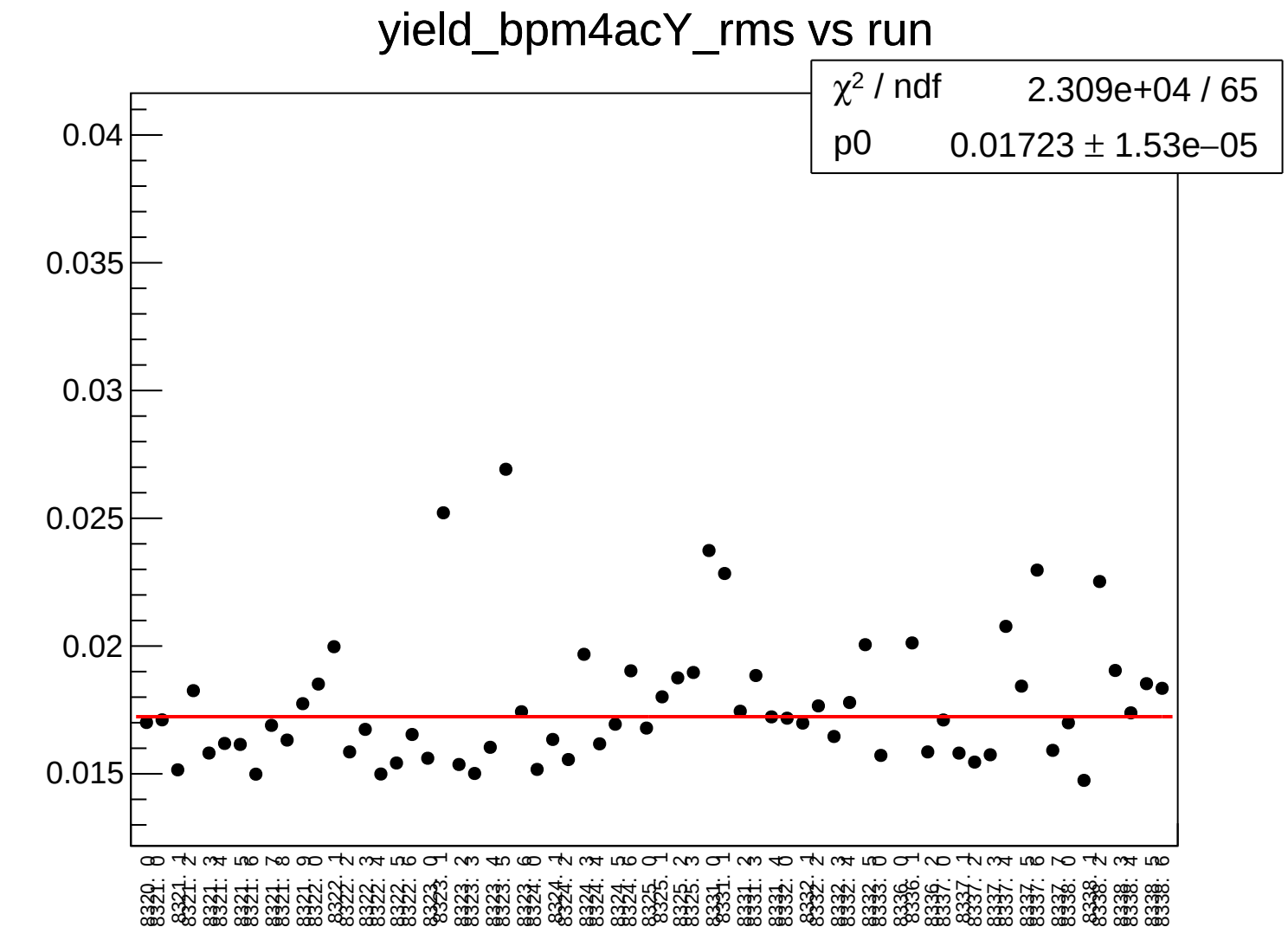

yield_bpm4acX_mean vs run
χ² / ndf 7.76e+04 / 65
p0 −1.191 ± 6.117e−05
−1.16
−1.18
−1.2
−1.22
−1.24
pull
Entries 66
Mean 245.4
Std Dev 209.4
60
40
20
0
−20
−40
−60
−80

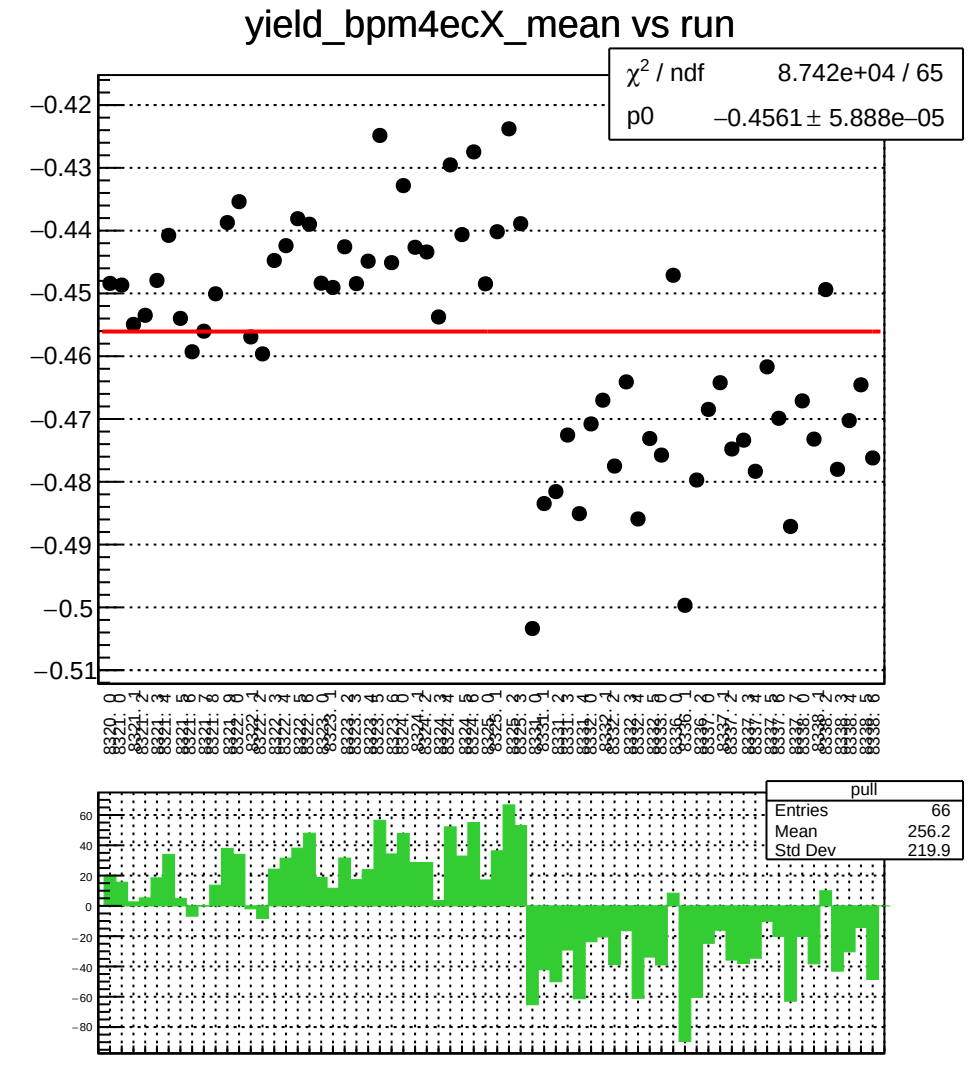

pull1D
Entries 66
Mean −0.7727
Std Dev 5.125
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

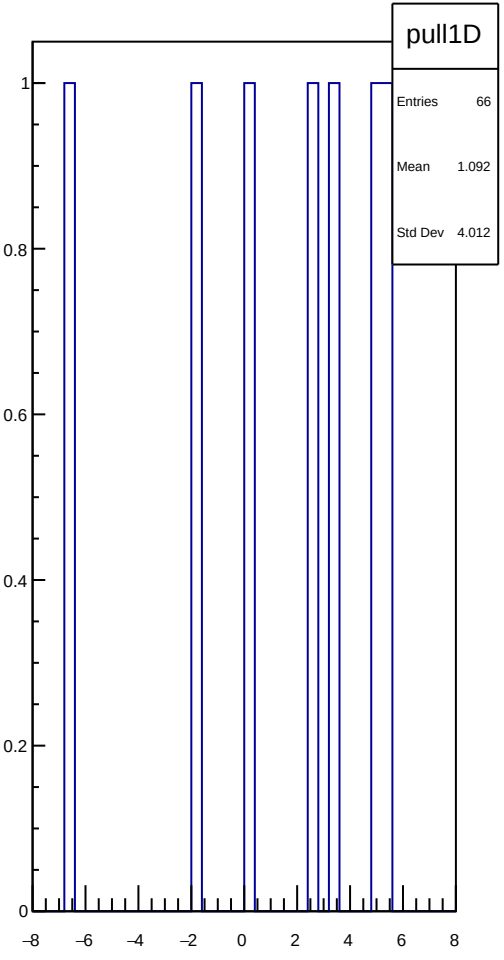

yield_bpm4acX_rms vs run
χ² / ndf 2.468e+04 / 65
p0 0.04869 ± 4.325e−05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

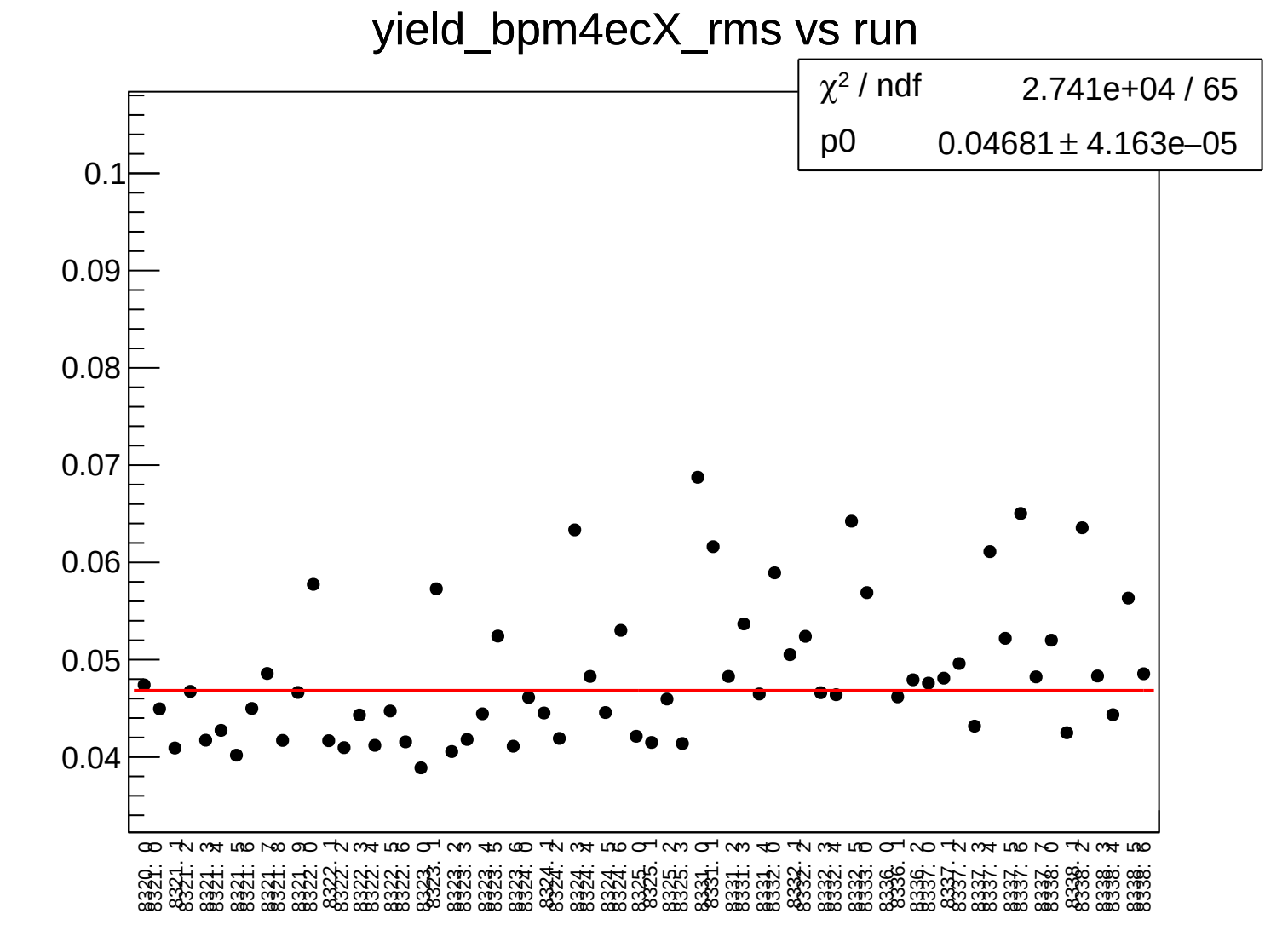

yield_bpm4acY_mean vs run
χ² / ndf 6.504e+04 / 65
p0 0.5067 ± 2.164e−05
0.52
0.51
0.5
0.49
0.48
0.47
pull
Entries 66
Mean −189.5
Std Dev 225.3
80
60
40
20
0
−20
−40
−60
−80

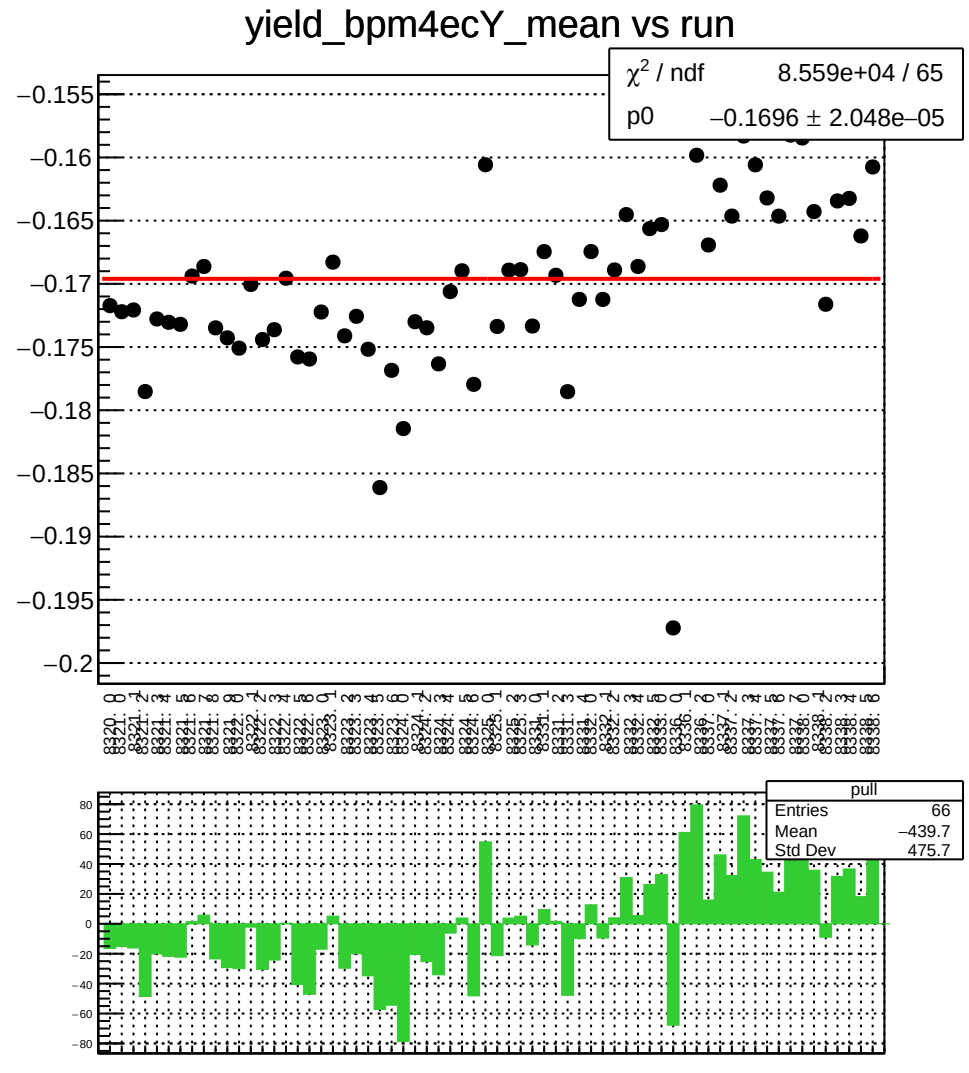

pull1D
Entries 66
Mean 0.5911
Std Dev 3.876
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

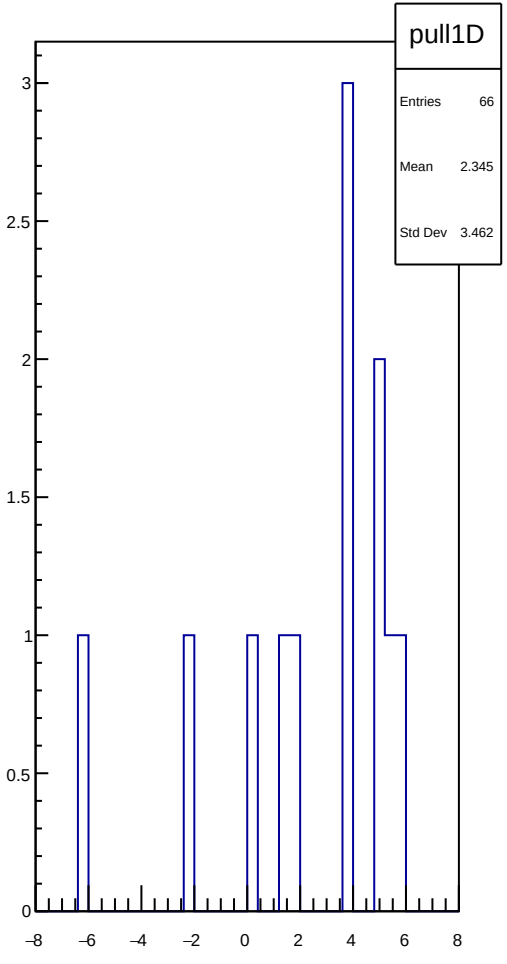

yield_bpm4acY_rms vs run
χ² / ndf 2.309e+04 / 65
p0 0.01723 ± 1.53e−05
0.04
0.035
0.03
0.025
0.02
0.015

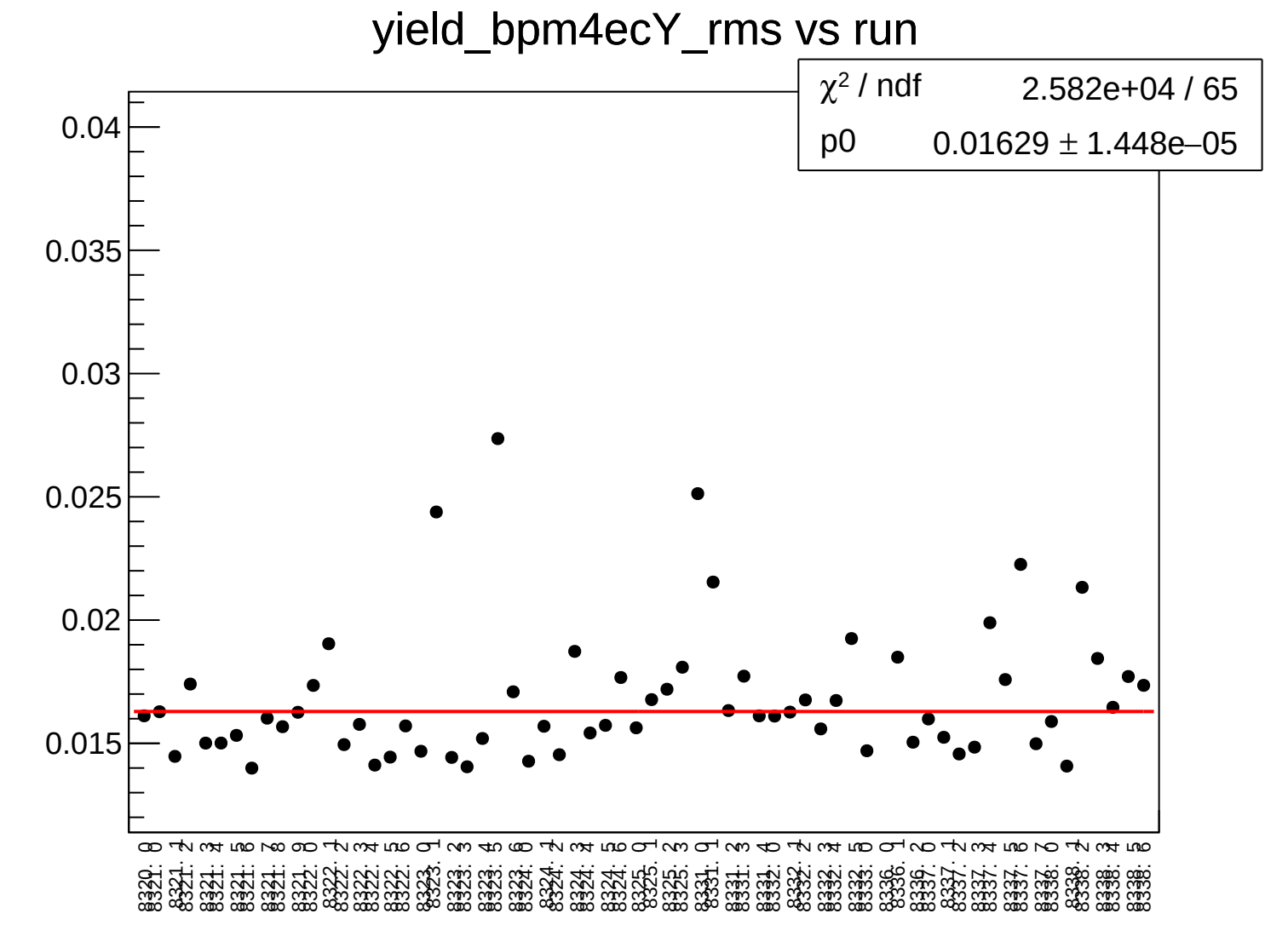

yield_bpm4ecX_mean vs run
χ² / ndf 8.742e+04 / 65
p0 −0.4561 ± 5.888e−05
pull
Entries 66
Mean 256.2
Std Dev 219.9

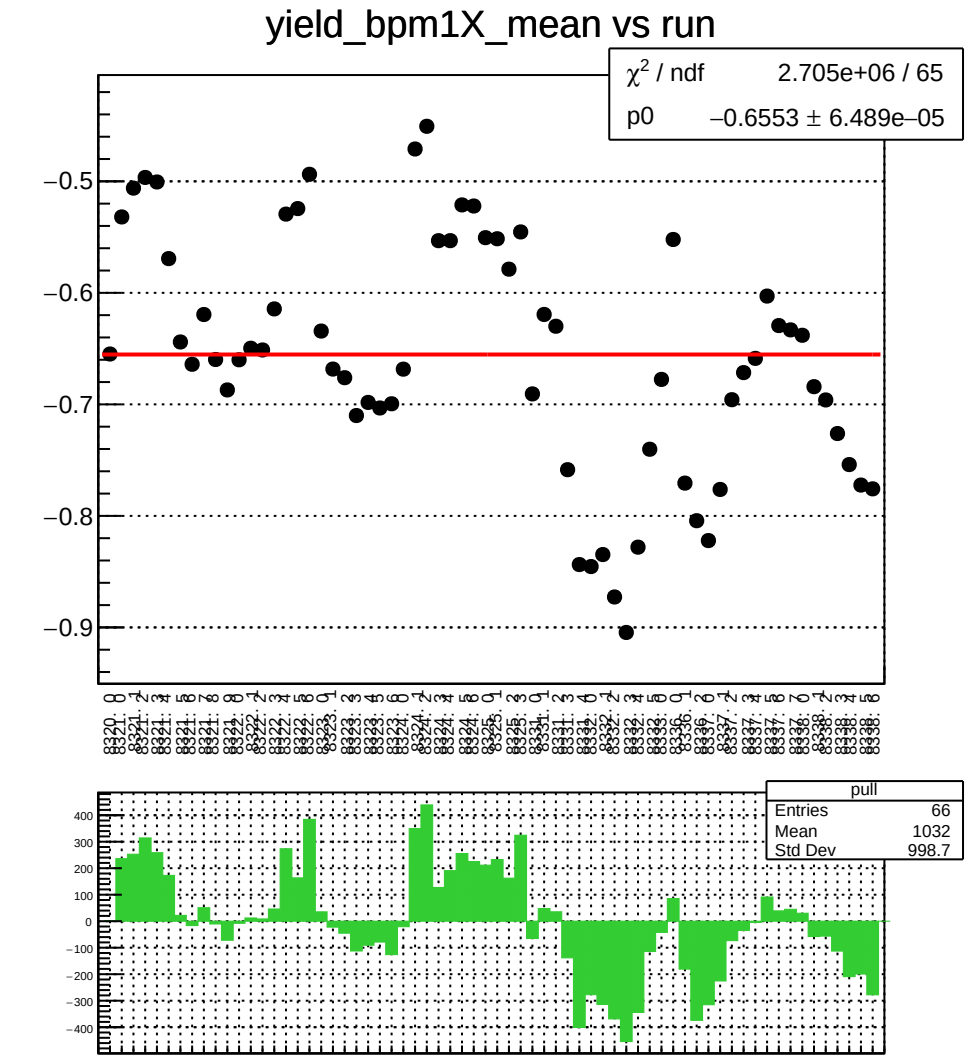

pull1D
Entries 66
Mean 1.092
Std Dev 4.012

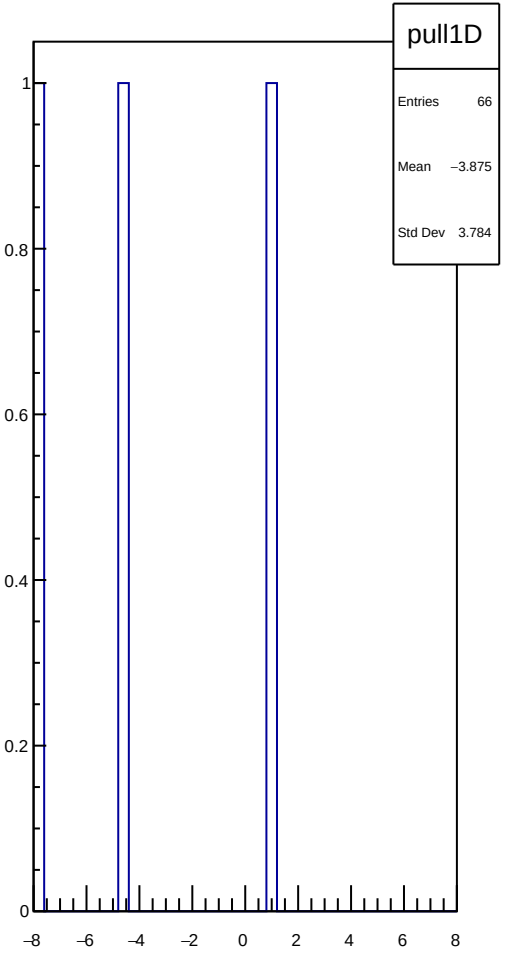

yield_bpm4ecX_rms vs run
χ² / ndf 2.741e+04 / 65
p0 0.04681 ± 4.163e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04

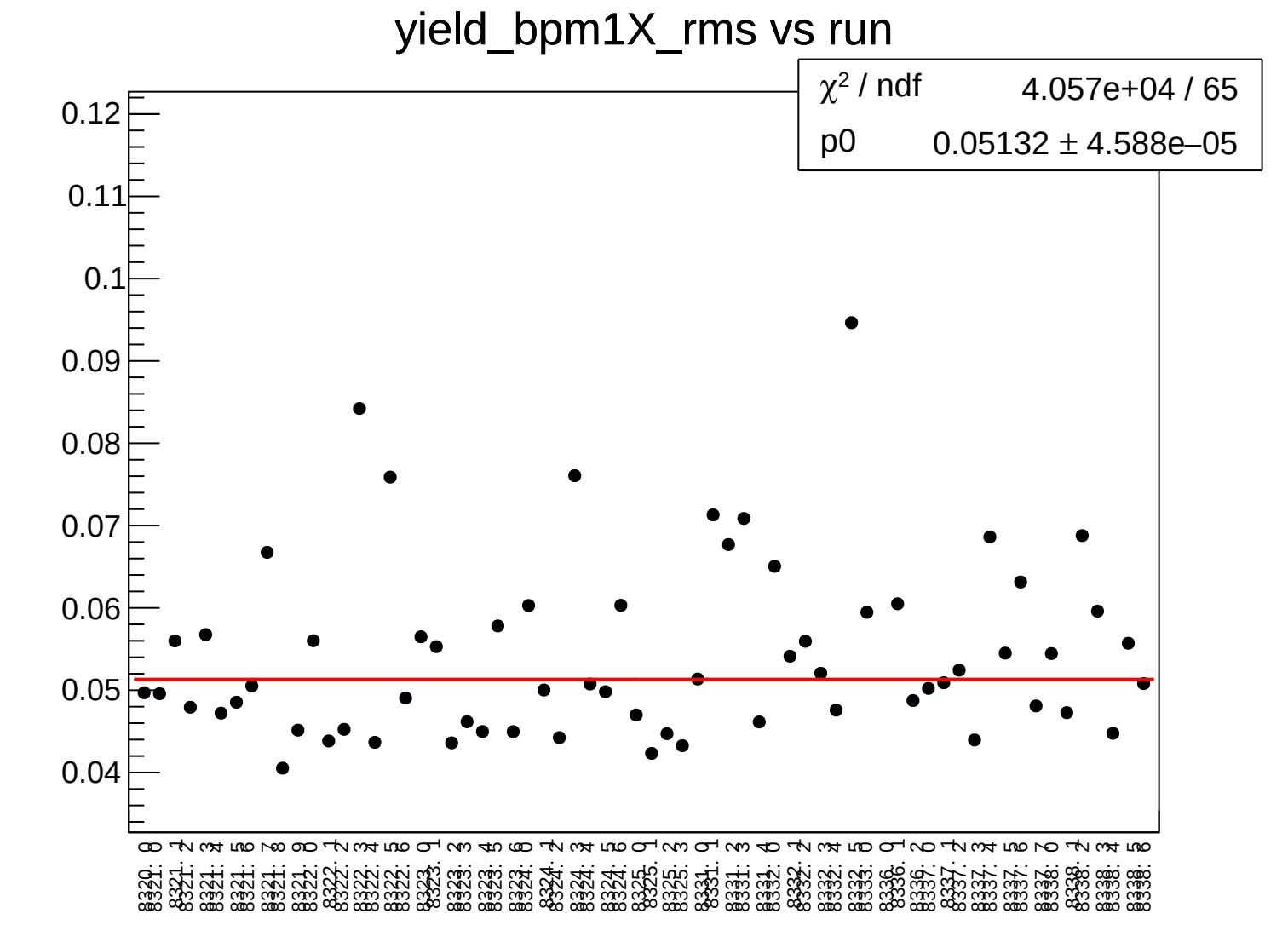

yield_bpm4ecY_mean vs run
χ² / ndf 8.559e+04 / 65
p0 −0.1696 ± 2.048e−05
pull
Entries 66
Mean −439.7
Std Dev 475.7

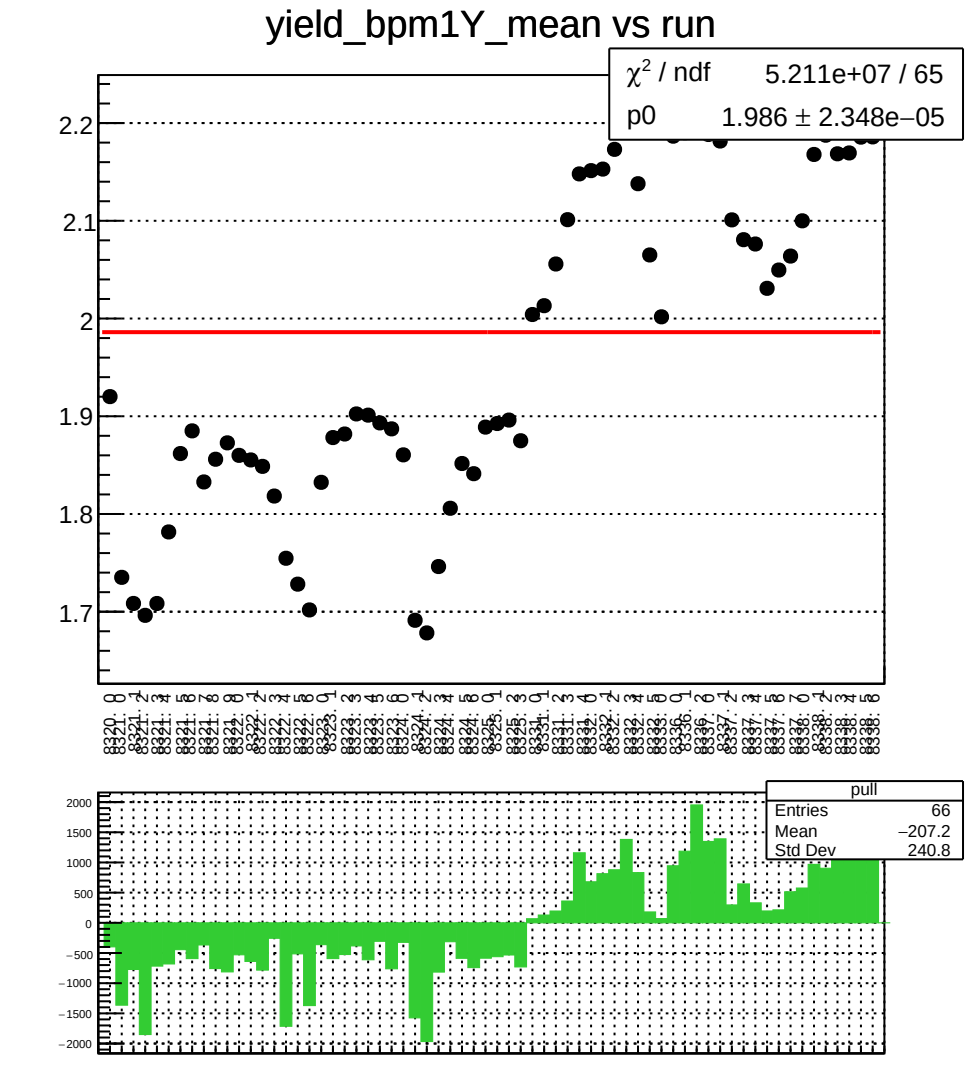

pull1D
Entries 66
Mean 2.345
Std Dev 3.462

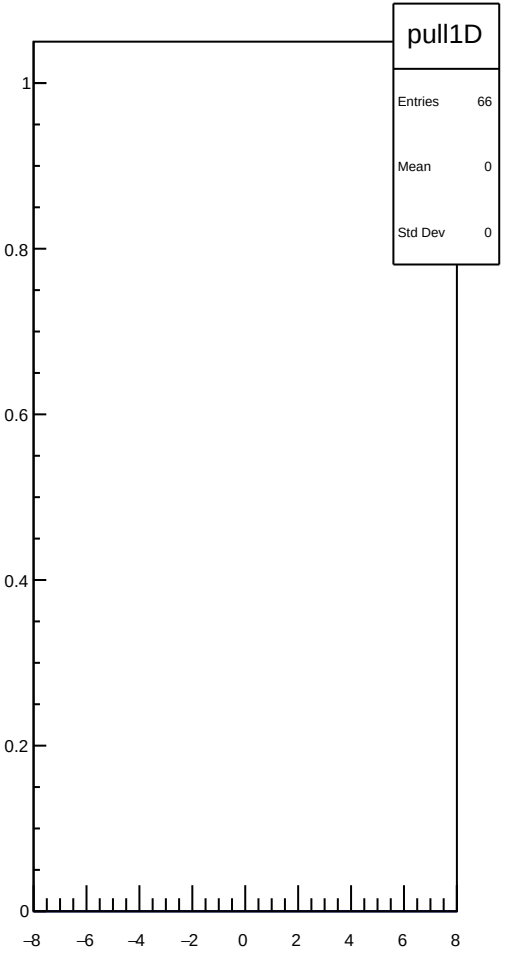

yield_bpm4ecY_rms vs run
χ² / ndf 2.582e+04 / 65
p0 0.01629 ± 1.448e−05
0.04
0.035
0.03
0.025
0.02
0.015

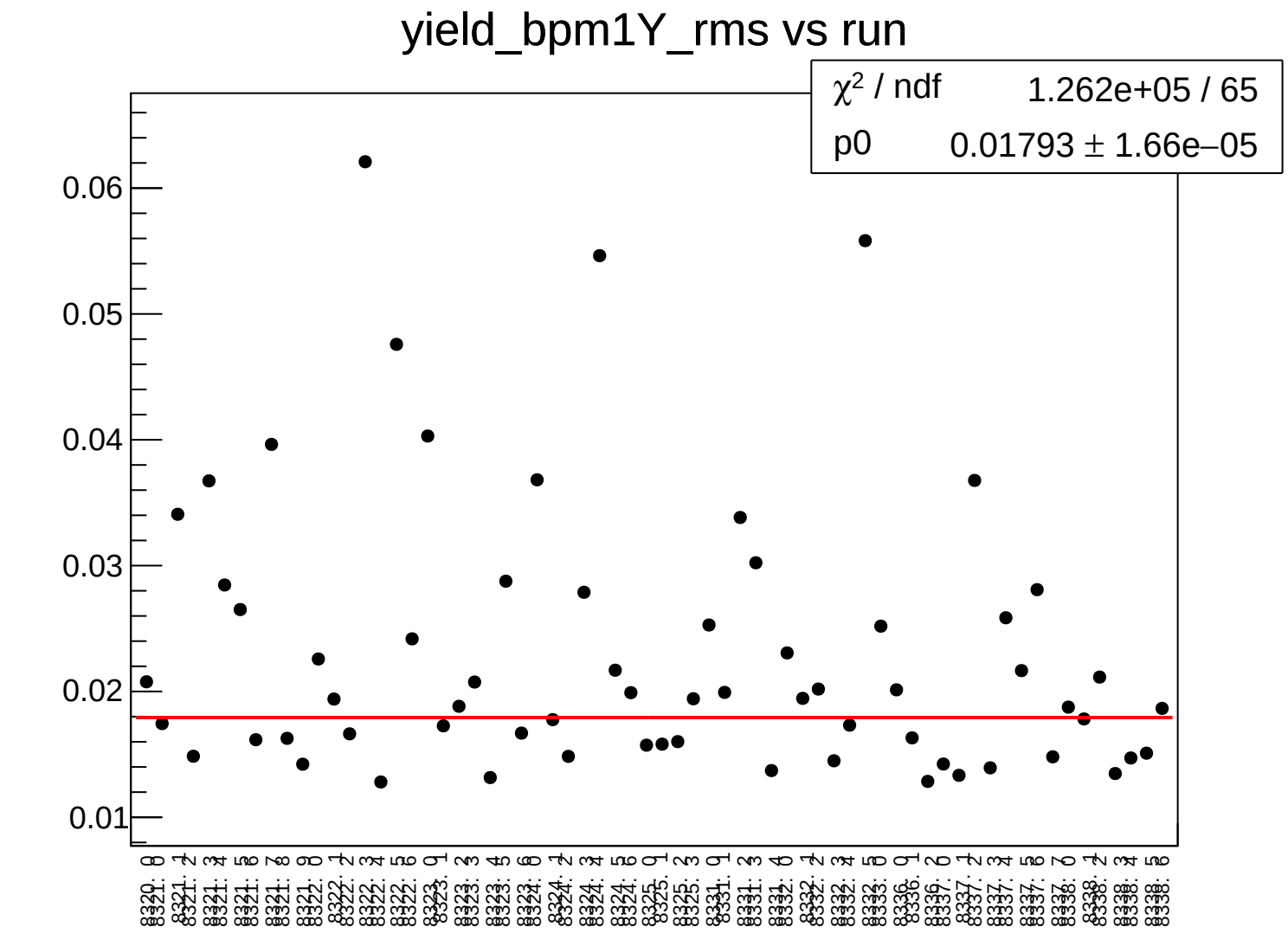

yield_bpm1X_mean vs run
χ² / ndf 2.705e+06 / 65
p0 −0.6553 ± 6.489e−05
−0.5
−0.6
−0.7
−0.8
−0.9
pull
Entries 66
Mean 1032
Std Dev 998.7
400
300
200
100
0
−100
−200
−300
−400

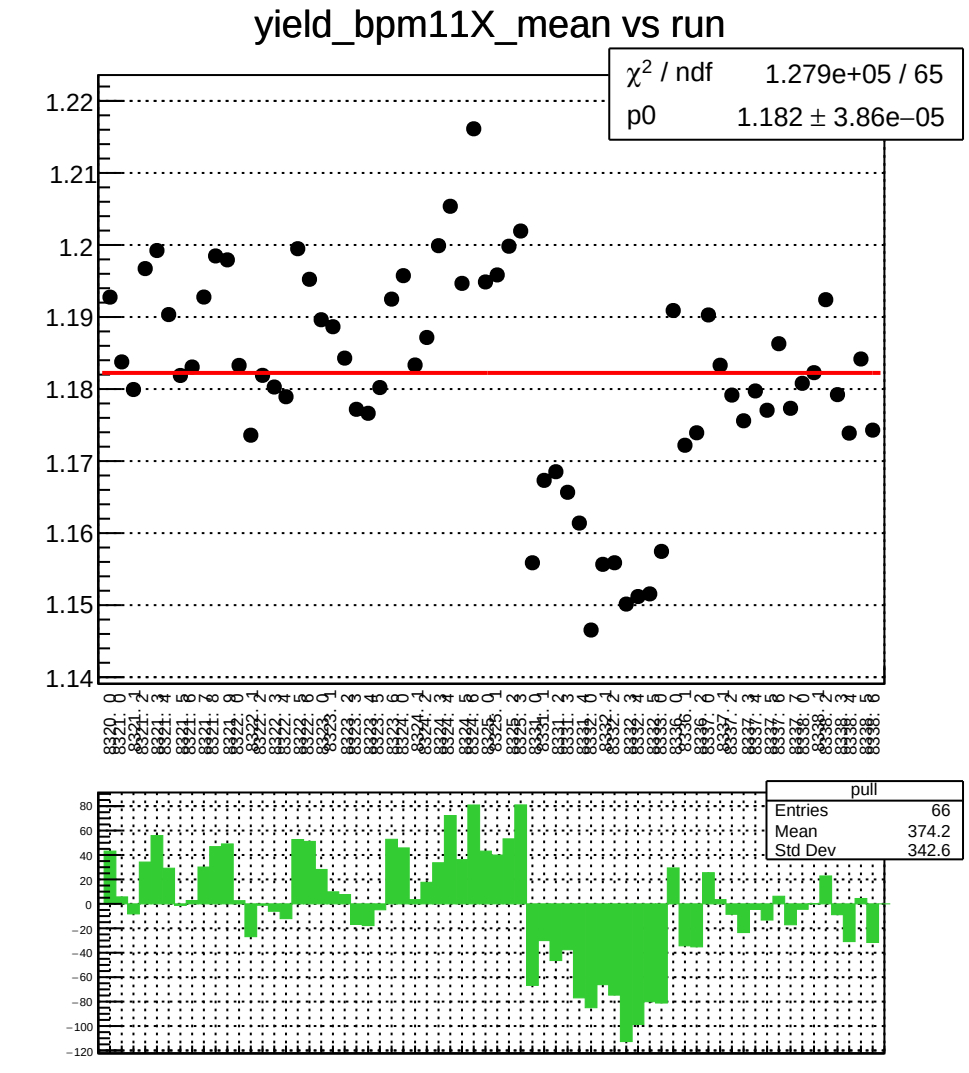

pull1D
Entries 66
Mean −3.875
Std Dev 3.784
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

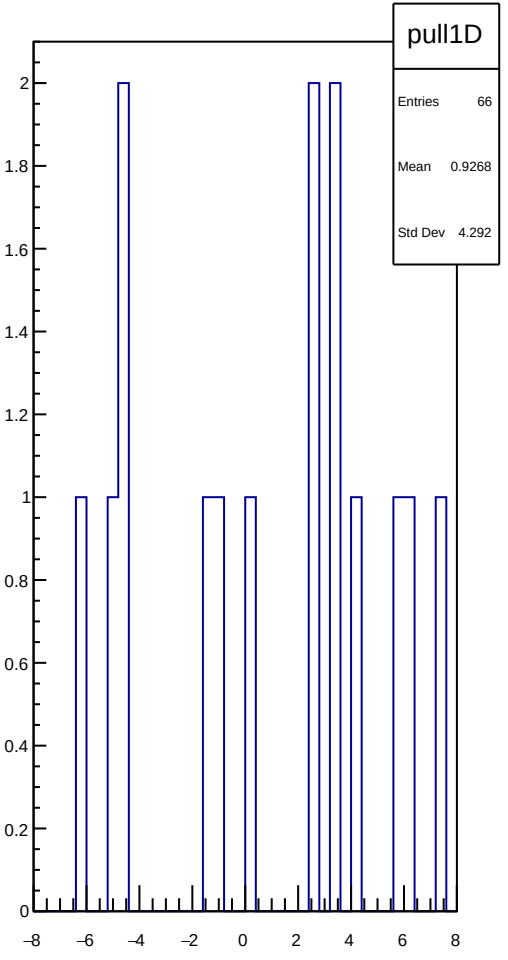

yield_bpm1X_rms vs run
χ² / ndf 4.057e+04 / 65
p0 0.05132 ± 4.588e−05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

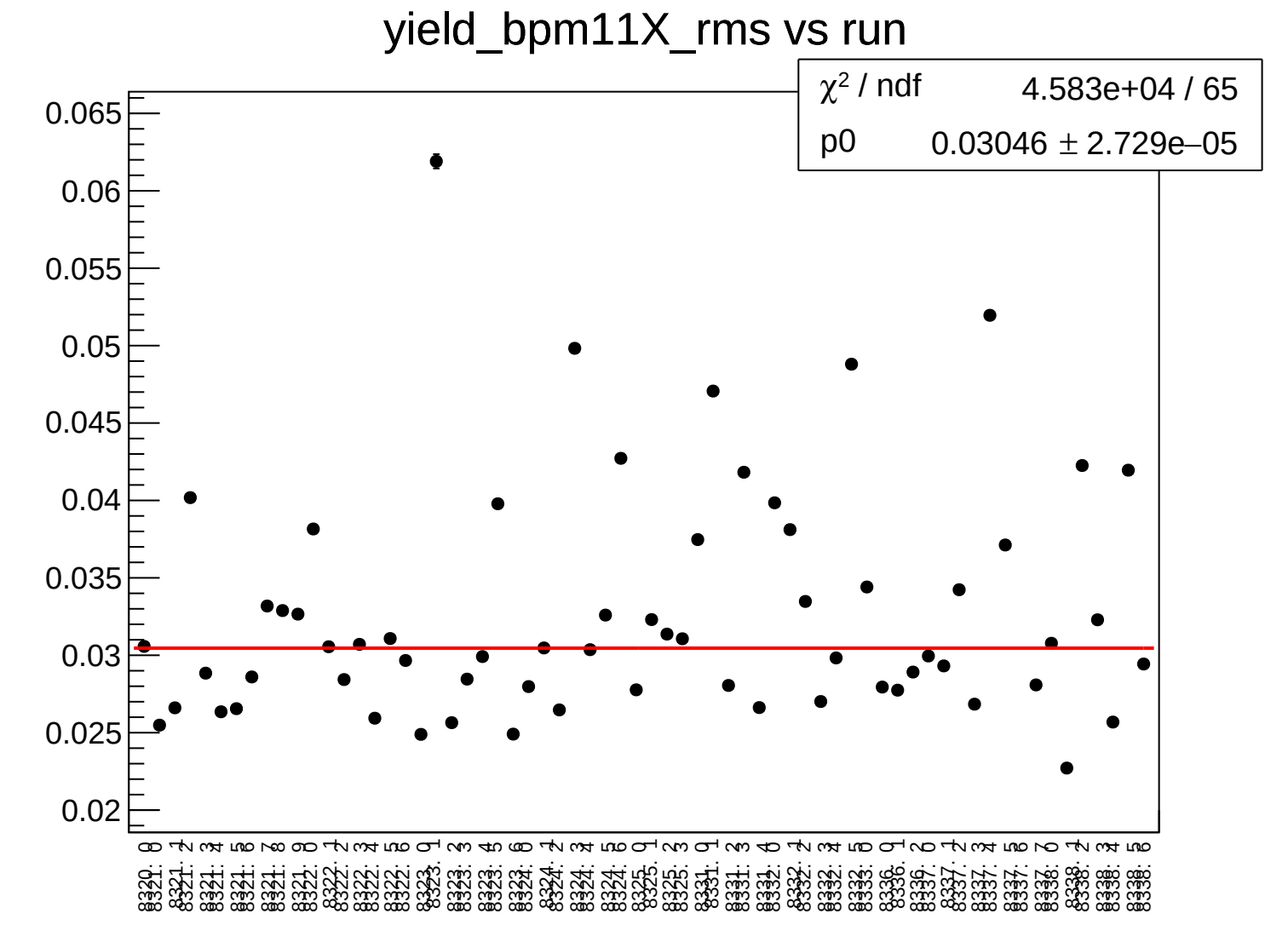

yield_bpm1Y_mean vs run
χ² / ndf 5.211e+07 / 65
p0 1.986 ± 2.348e−05
pull
Entries 66
Mean −207.2
Std Dev 240.8

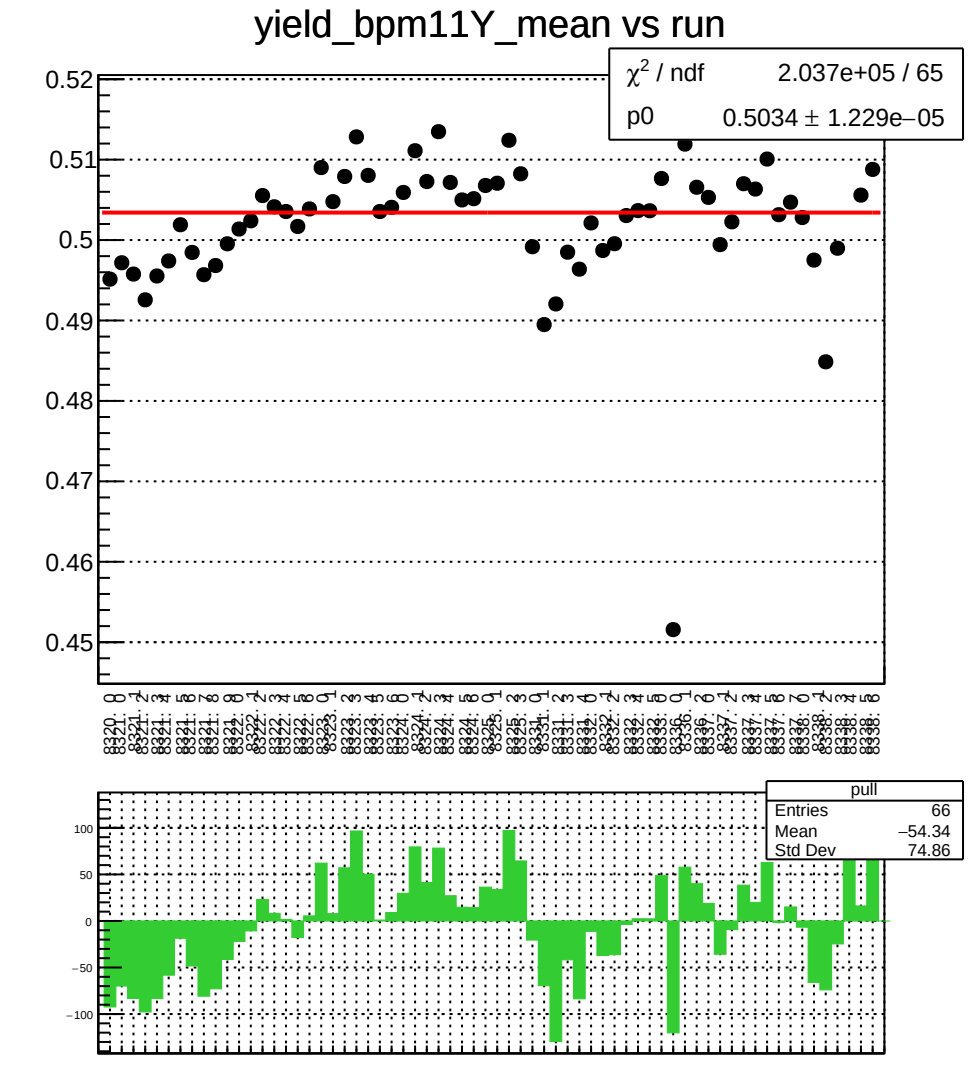

pull1D
Entries 66
Mean 0
Std Dev 0

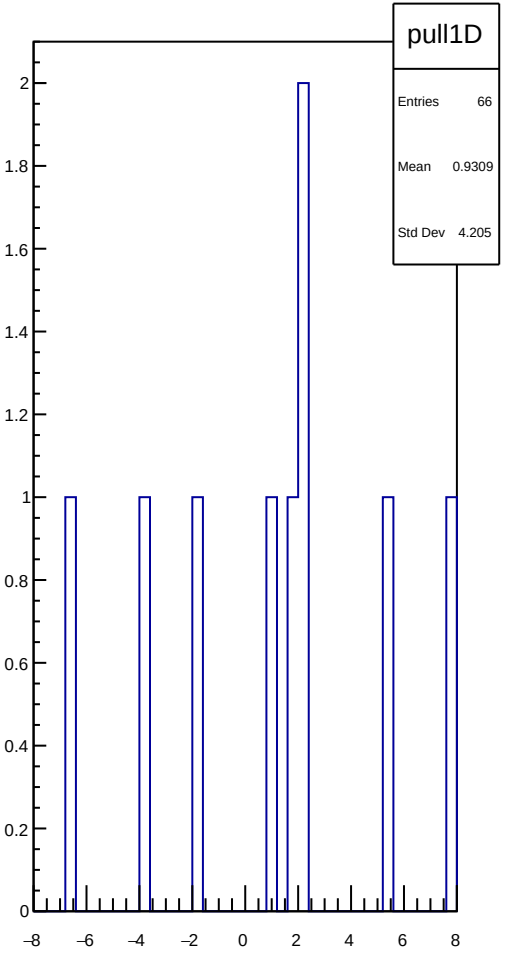

yield_bpm1Y_rms vs run
χ² / ndf 1.262e+05 / 65
p0 0.01793 ± 1.66e−05
0.06
0.05
0.04
0.03
0.02
0.01

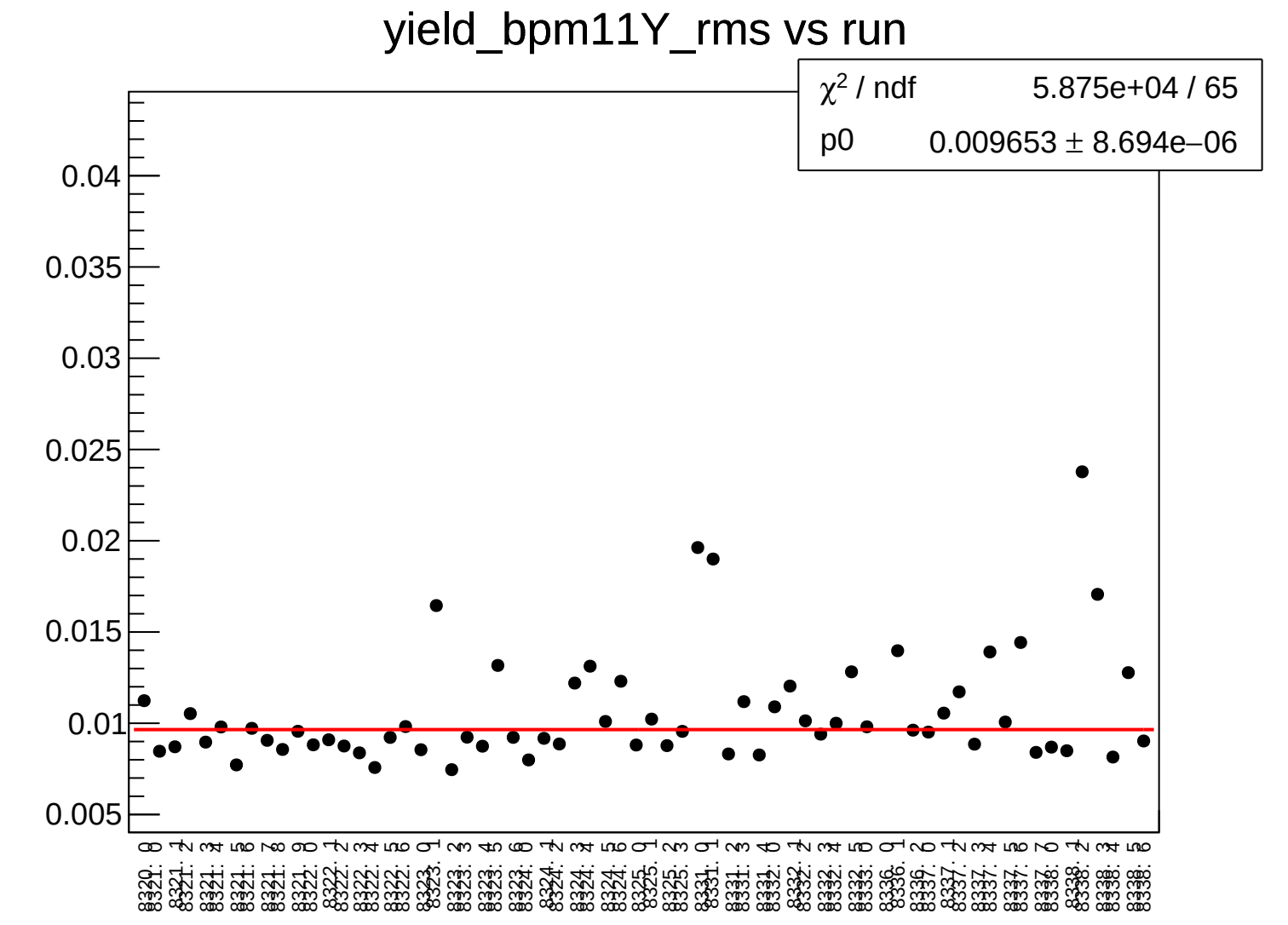

yield_bpm11X_mean vs run
χ² / ndf 1.279e+05 / 65
p0 1.182 ± 3.86e−05
pull
Entries 66
Mean 374.2
Std Dev 342.6

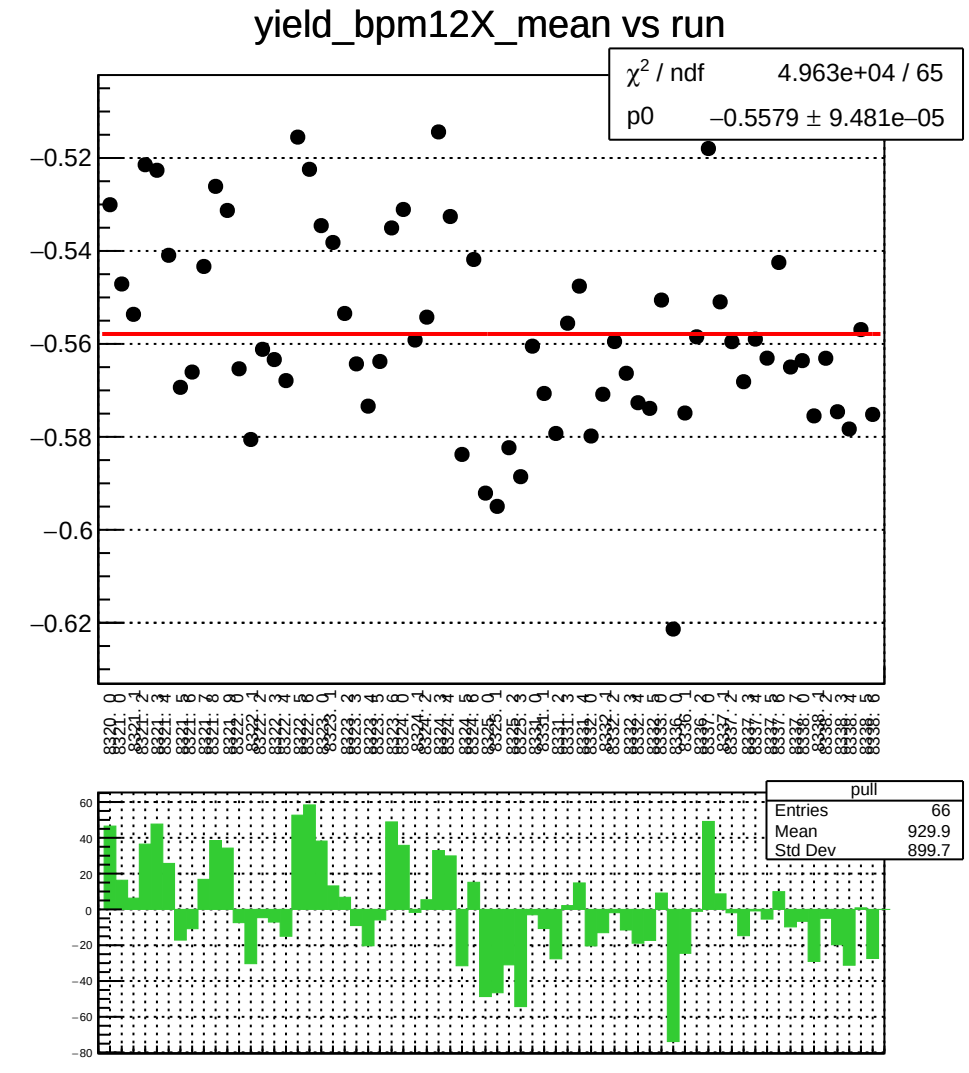

pull1D
Entries 66
Mean 0.9268
Std Dev 4.292

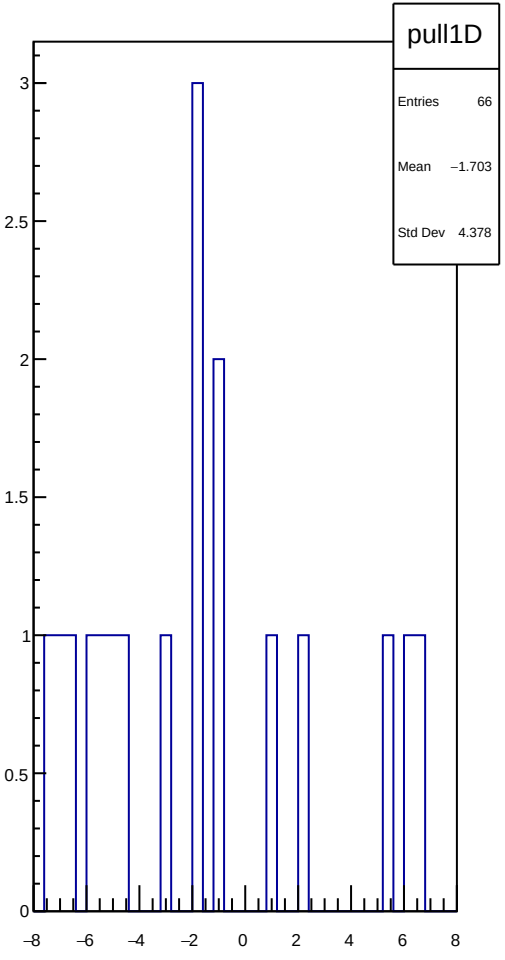

yield_bpm11X_rms vs run
χ² / ndf 4.583e+04 / 65
p0 0.03046 ± 2.729e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02

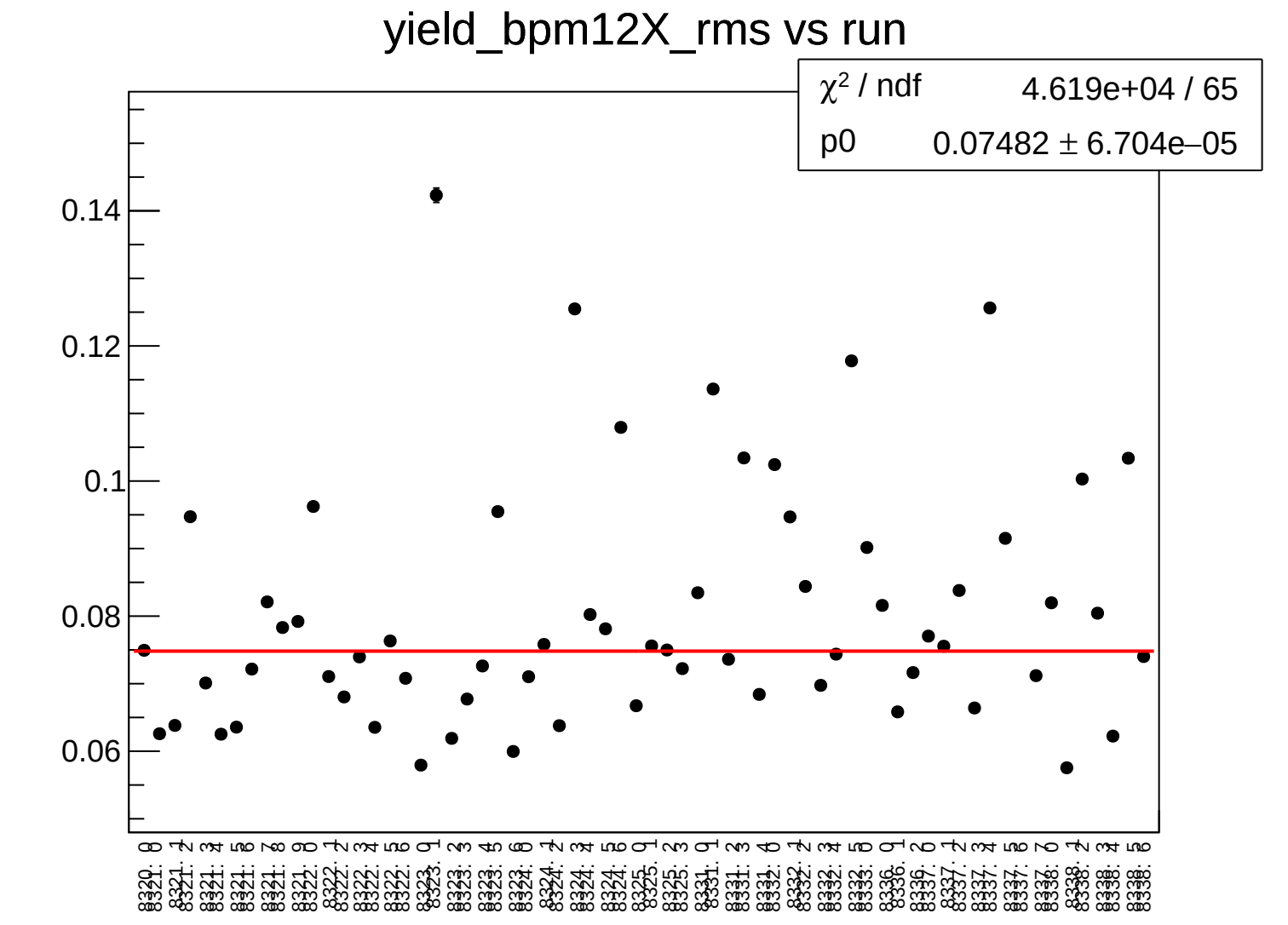

yield_bpm11Y_mean vs run
χ² / ndf 2.037e+05 / 65
p0 0.5034 ± 1.229e−05
pull
Entries 66
Mean −54.34
Std Dev 74.86

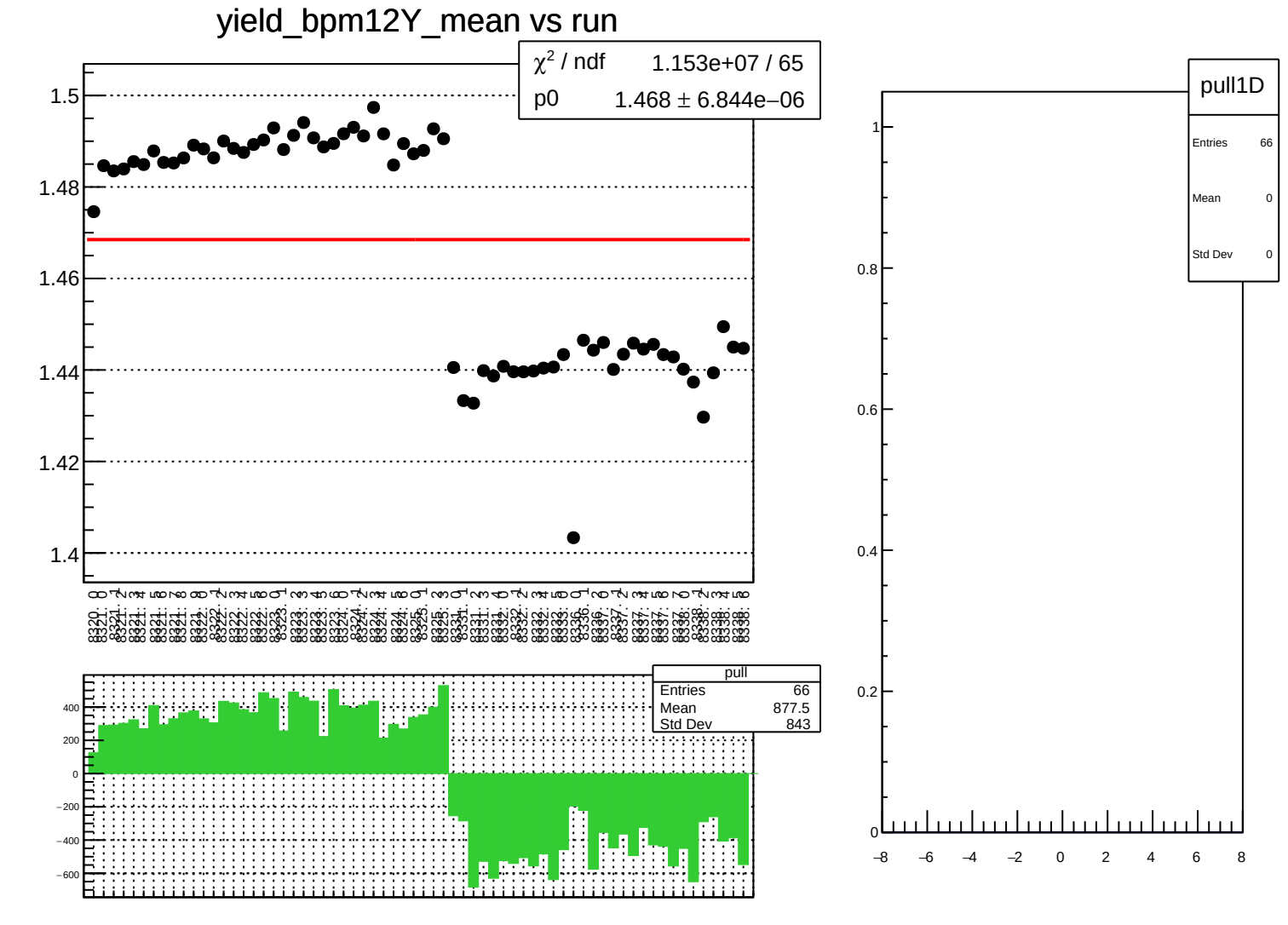

pull1D
Entries 66
Mean 0.9309
Std Dev 4.205

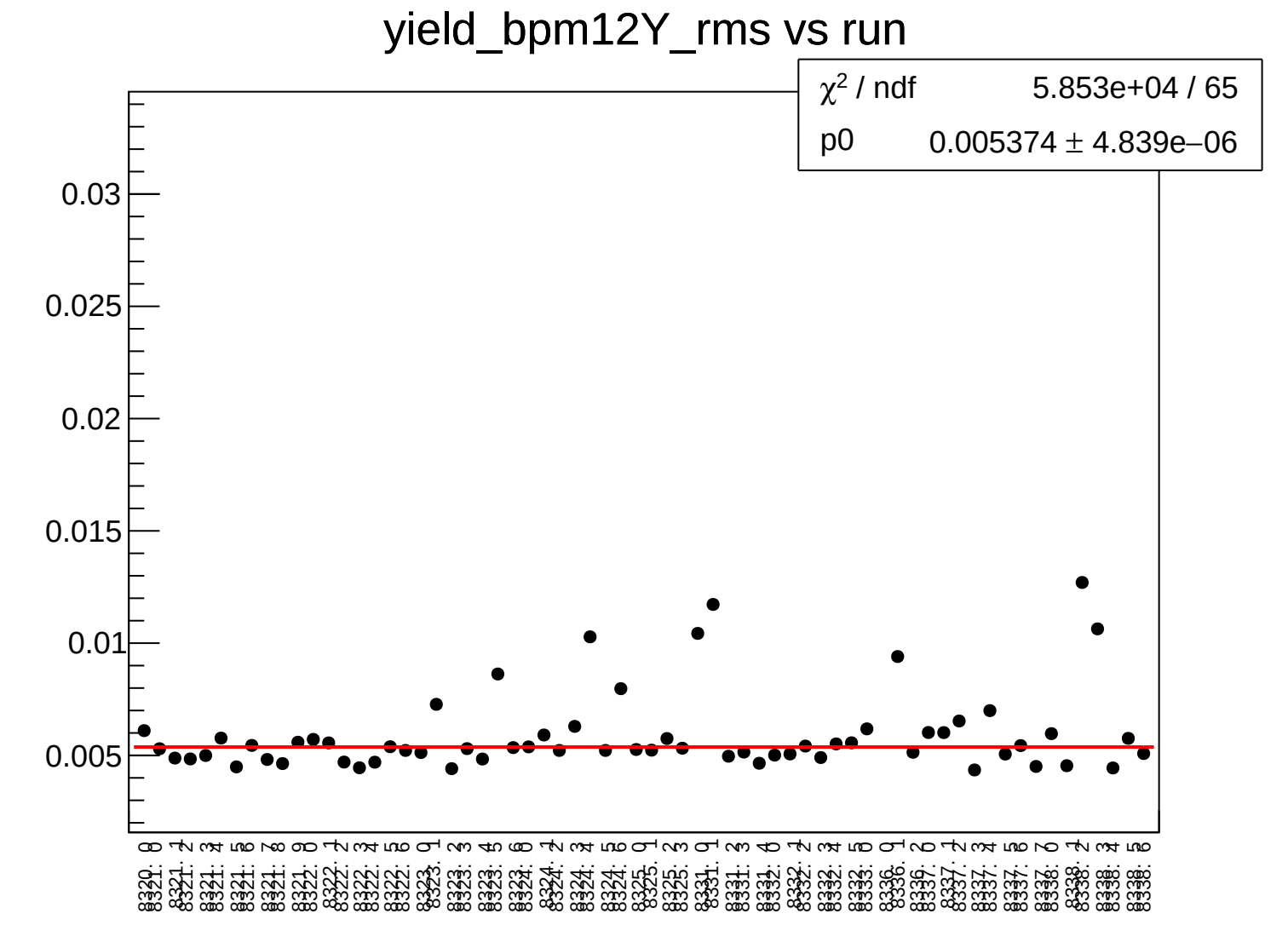

yield_bpm11Y_rms vs run
χ² / ndf 5.875e+04 / 65
p0 0.009653 ± 8.694e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

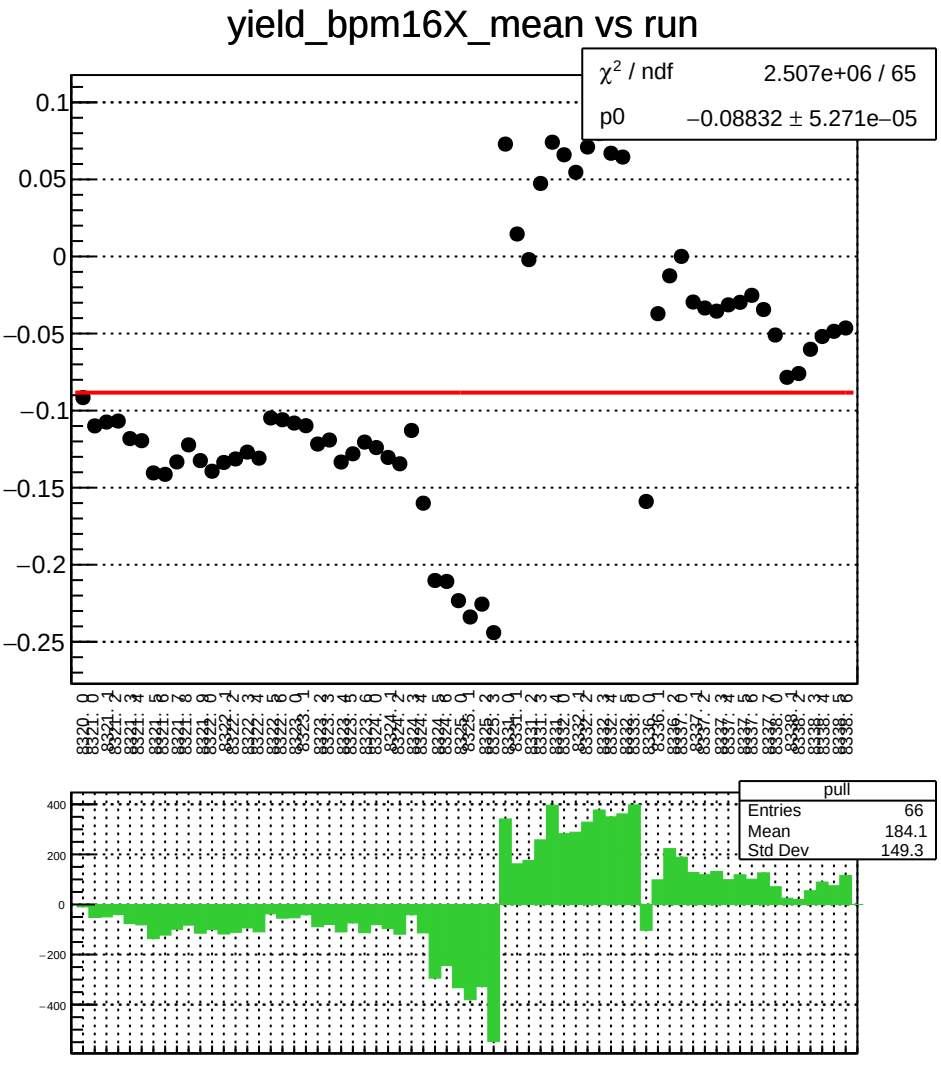

yield_bpm12X_mean vs run
χ² / ndf 4.963e+04 / 65
p0 −0.5579 ± 9.481e−05
−0.52
−0.54
−0.56
−0.58
−0.6
−0.62
pull
Entries 66
Mean 929.9
Std Dev 899.7
60
40
20
0
−20
−40
−60
−80

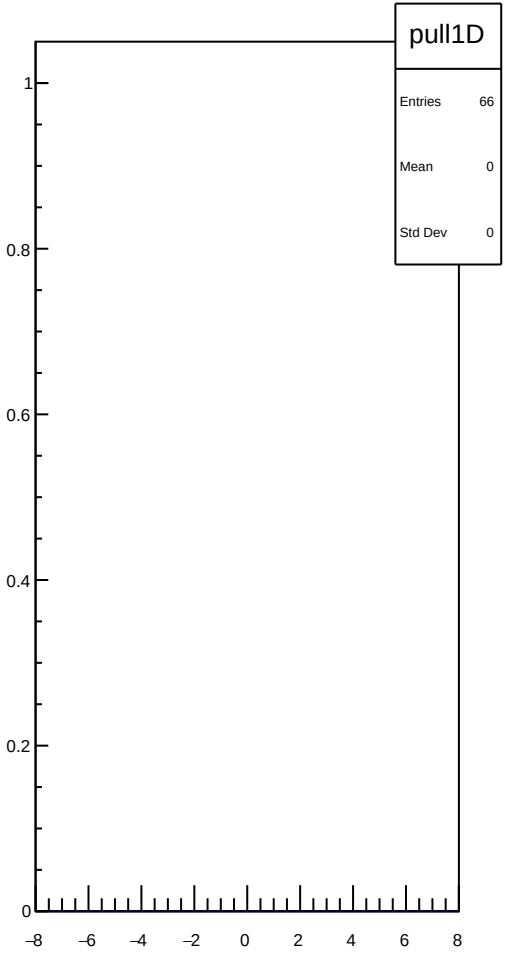

pull1D
Entries 66
Mean −1.703
Std Dev 4.378
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

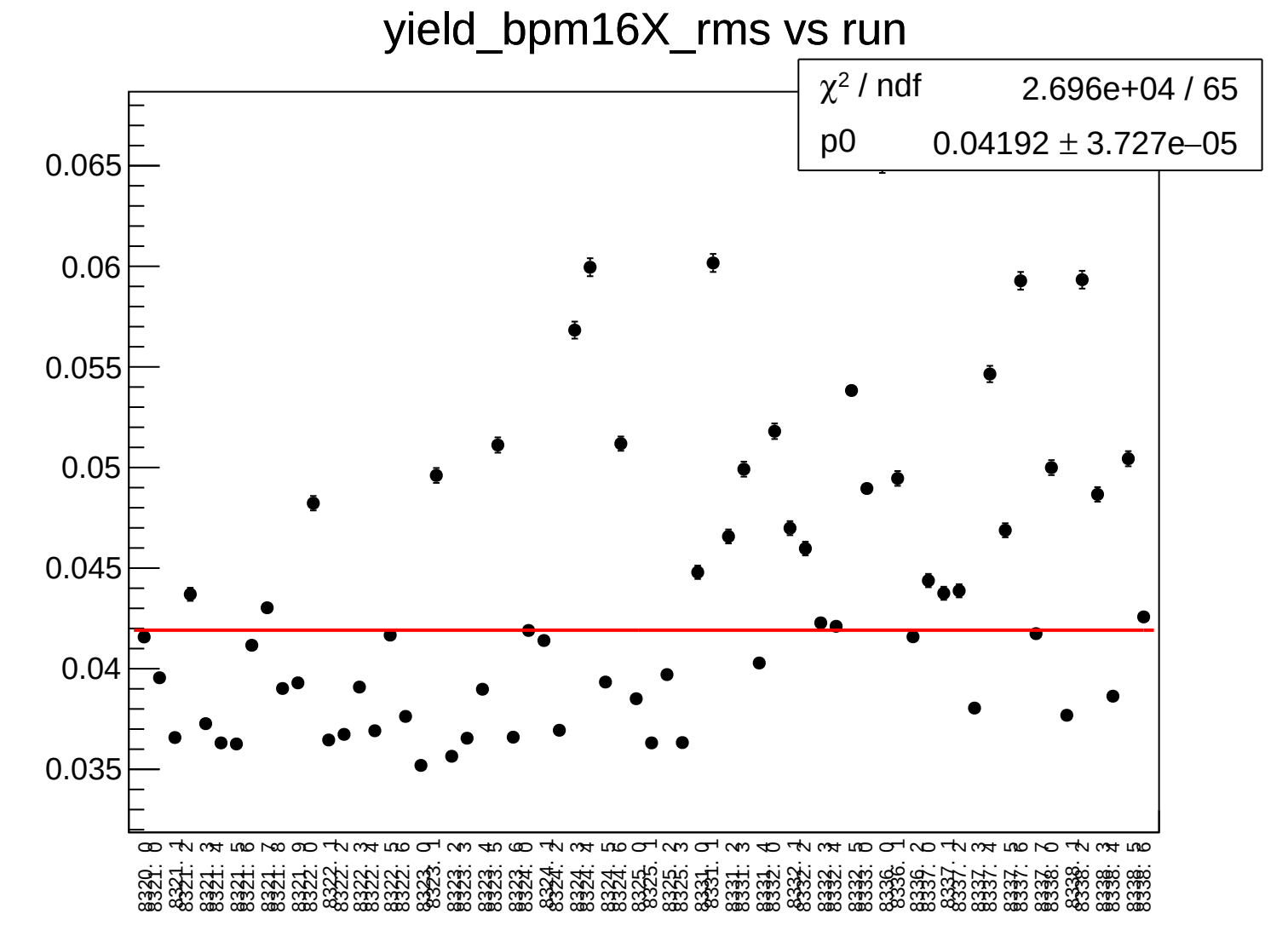

yield_bpm12X_rms vs run
χ² / ndf 4.619e+04 / 65
p0 0.07482 ± 6.704e–05
0.14
0.12
0.1
0.08
0.06

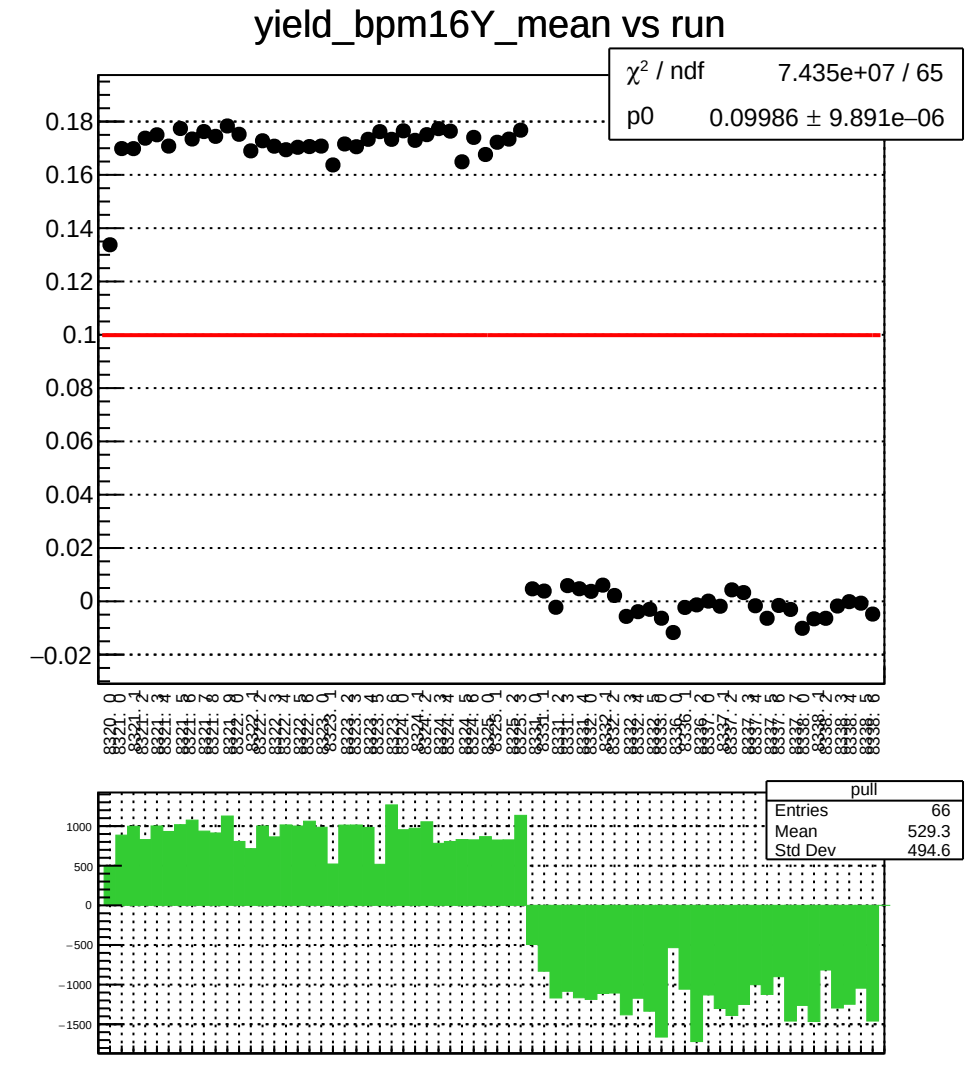

yield_bpm12Y_mean vs run
χ² / ndf 1.153e+07 / 65
p0 1.468 ± 6.844e−06
1.5
1.48
1.46
1.44
1.42
1.4
pull
Entries 66
Mean 877.5
Std Dev 843
400
200
0
−200
−400
−600
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

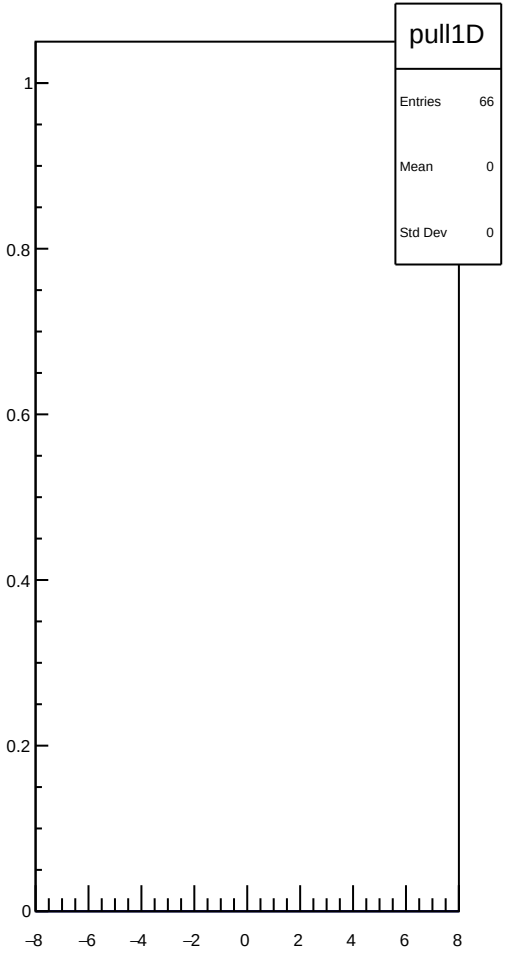

yield_bpm12Y_rms vs run
χ² / ndf 5.853e+04 / 65
p0 0.005374 ± 4.839e−06
0.03
0.025
0.02
0.015
0.01
0.005

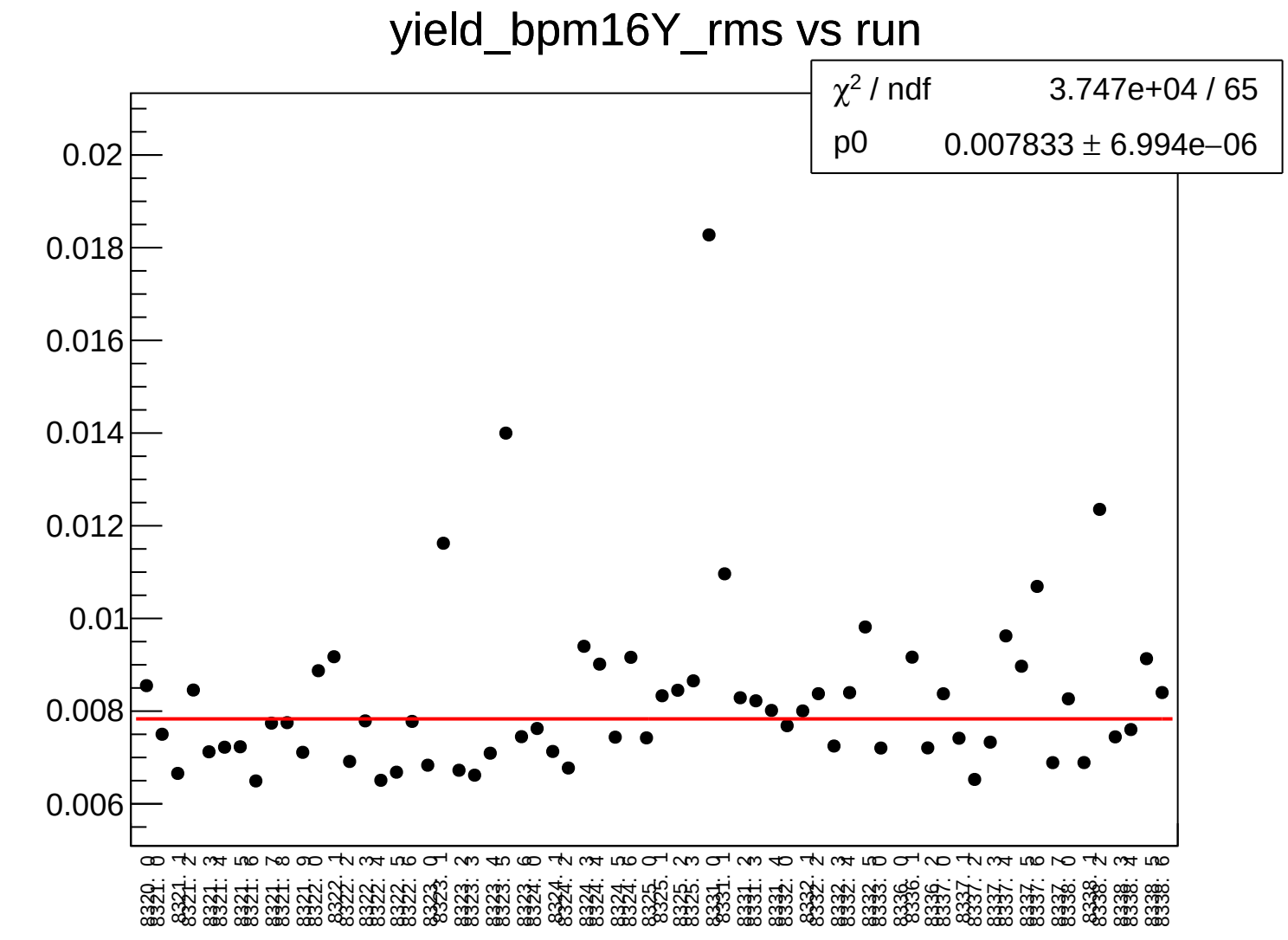

yield_bpm16X_mean vs run
χ² / ndf 2.507e+06 / 65
p0 −0.08832 ± 5.271e−05
pull
Entries 66
Mean 184.1
Std Dev 149.3

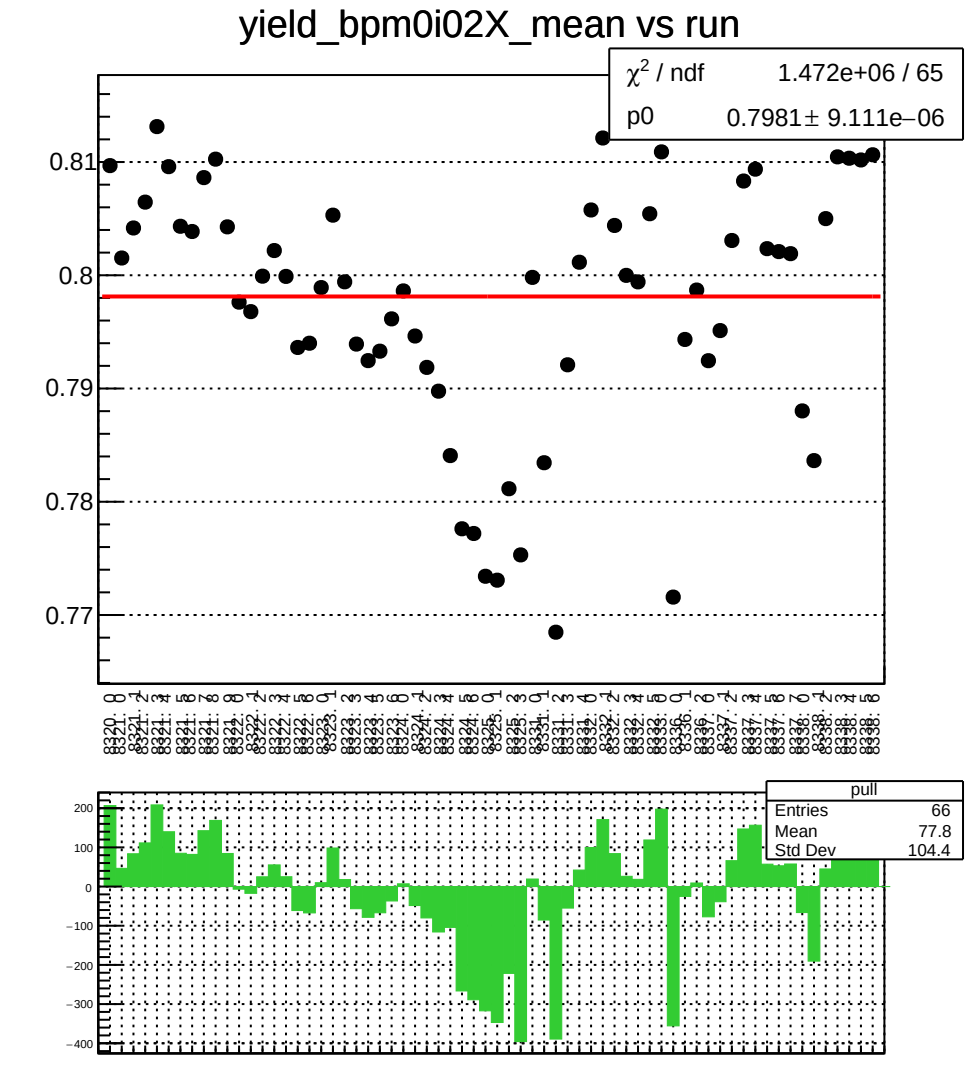

pull1D
Entries 66
Mean 0
Std Dev 0

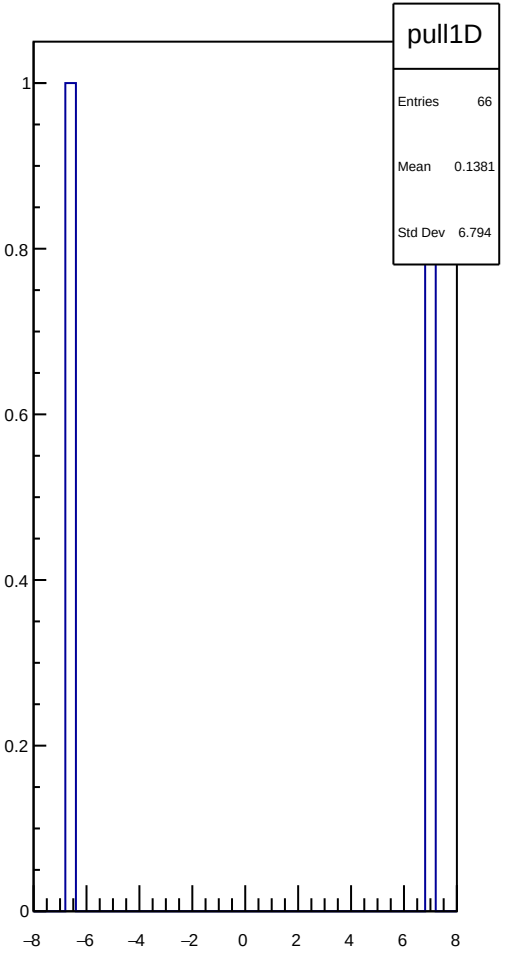

yield_bpm16X_rms vs run
χ² / ndf 2.696e+04 / 65
p0 0.04192 ± 3.727e–05
0.065
0.06
0.055
0.05
0.045
0.04
0.035

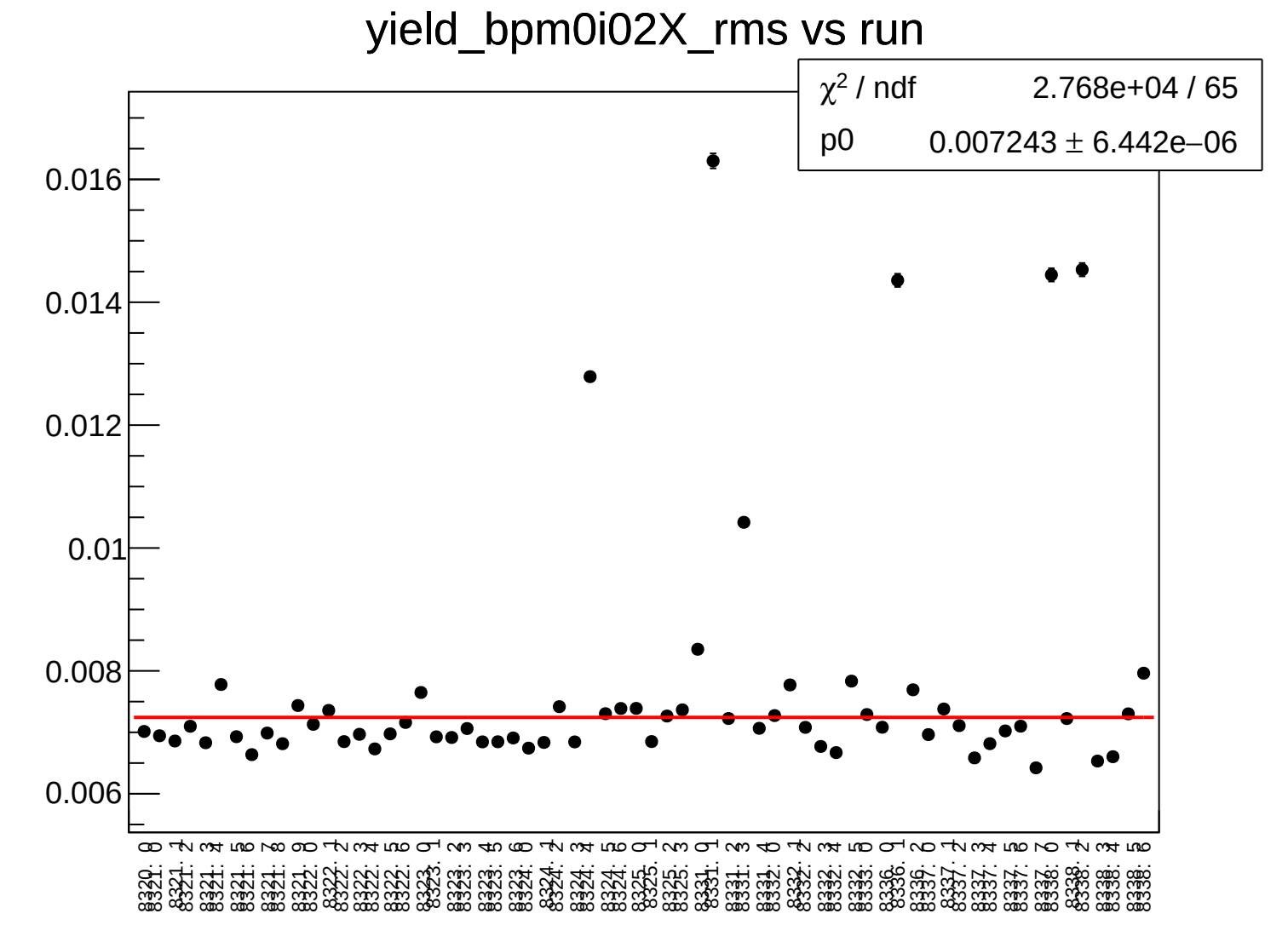

yield_bpm16Y_mean vs run
χ² / ndf 7.435e+07 / 65
p0 0.09986 ± 9.891e−06
pull
Entries 66
Mean 529.3
Std Dev 494.6

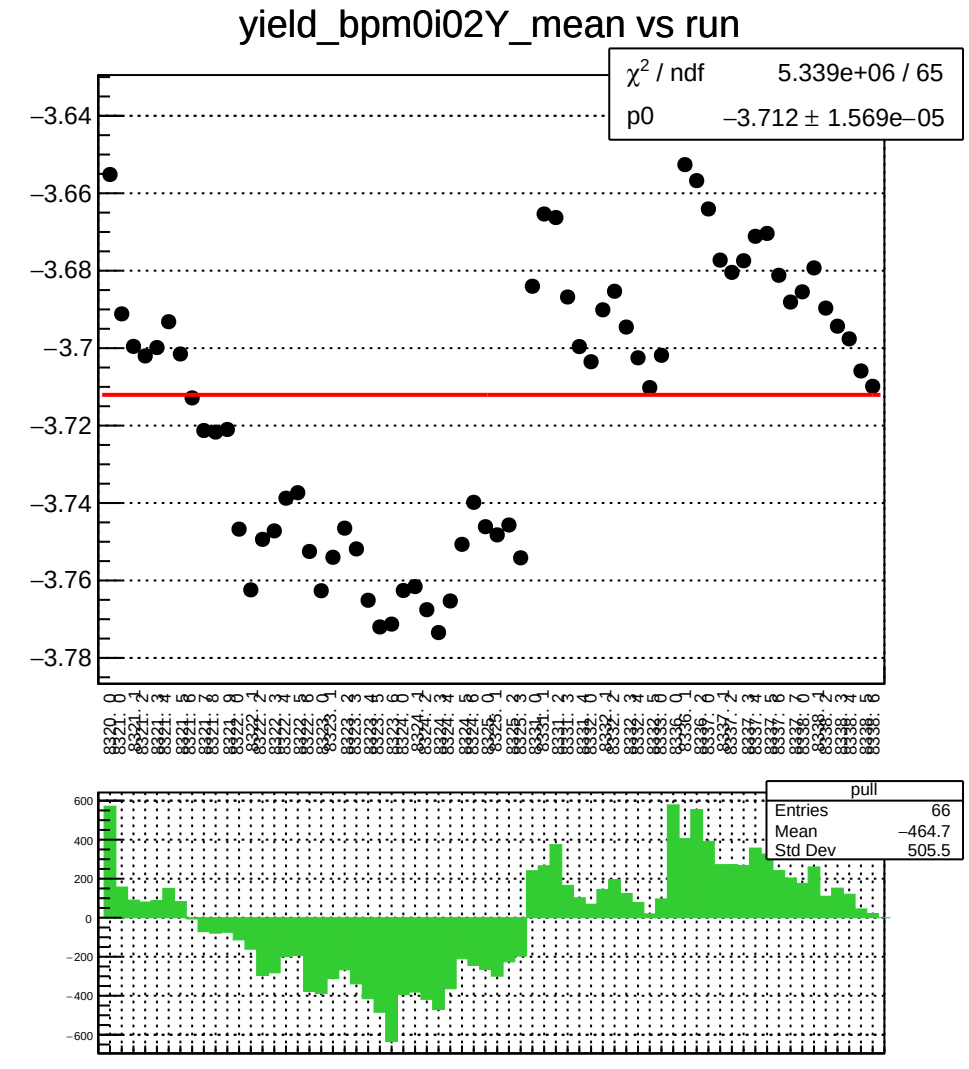

pull1D
Entries 66
Mean 0
Std Dev 0

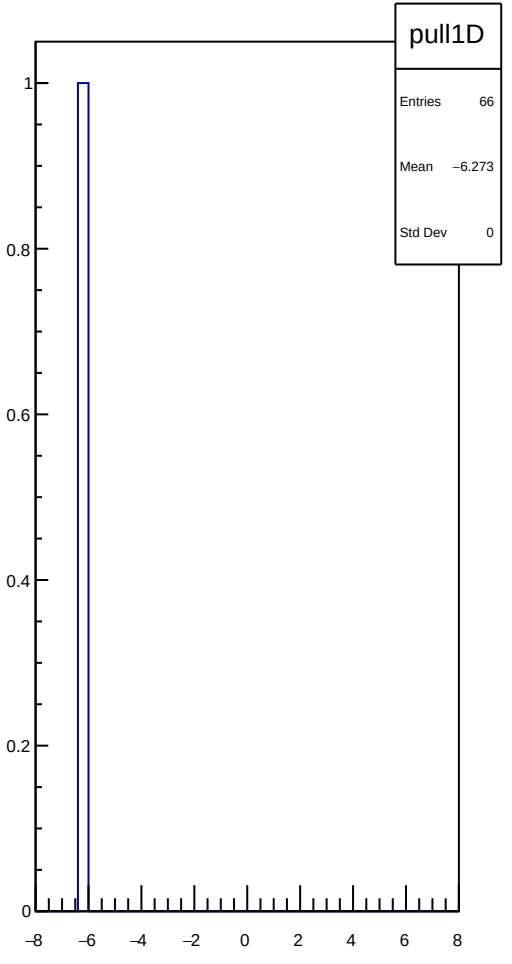

yield_bpm16Y_rms vs run
χ² / ndf 3.747e+04 / 65
p0 0.007833 ± 6.994e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

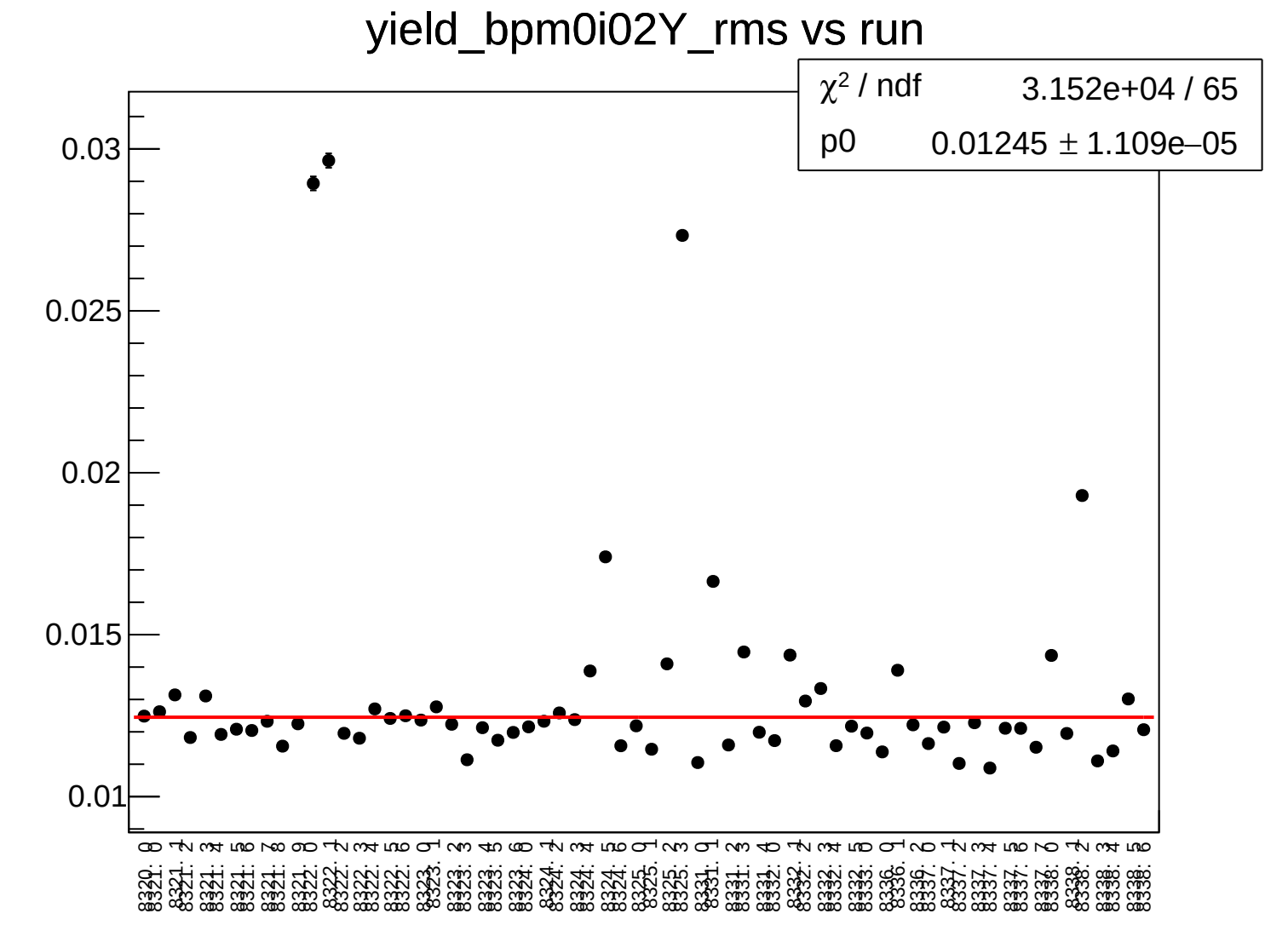

yield_bpm0i02X_mean vs run
χ² / ndf 1.472e+06 / 65
p0 0.7981 ± 9.111e−06
0.81
0.8
0.79
0.78
0.77
pull
Entries 66
Mean 77.8
Std Dev 104.4
200
100
0
−100
−200
−300
−400

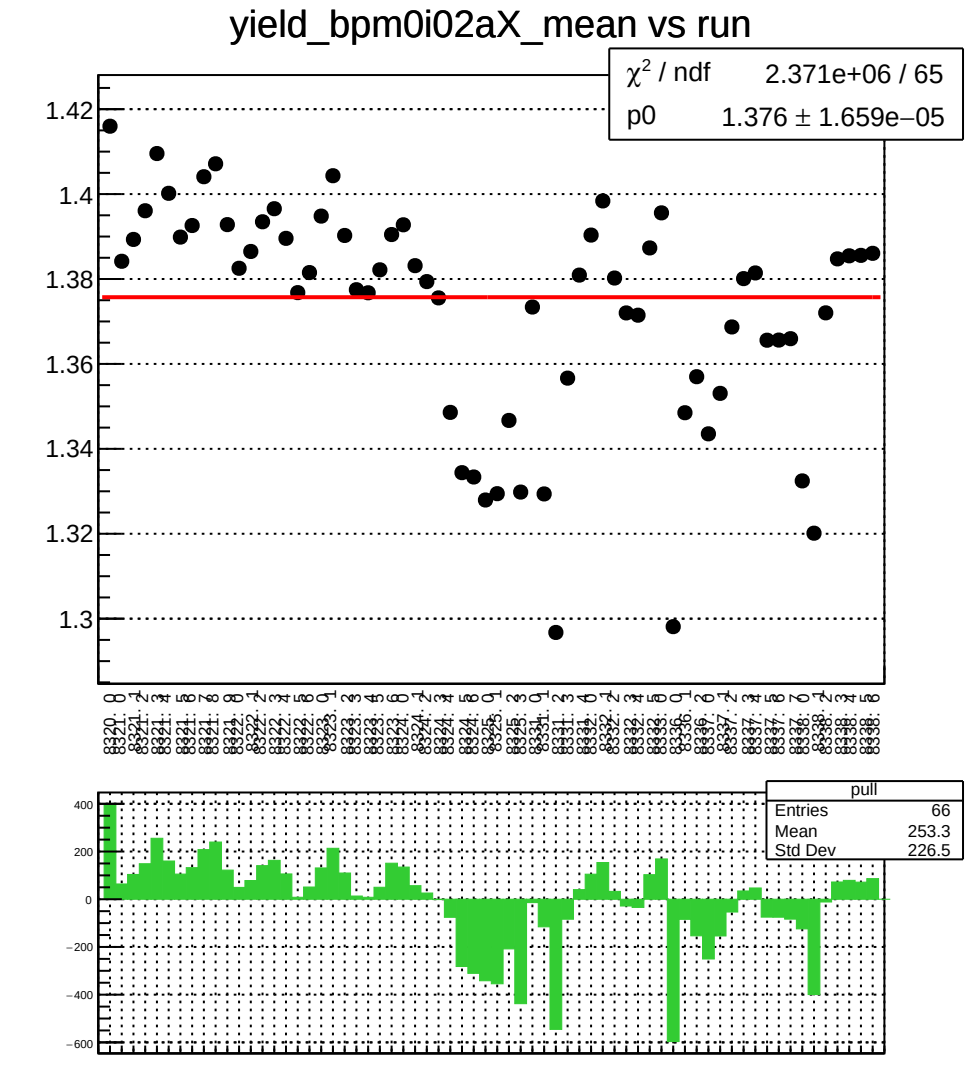

pull1D
Entries 66
Mean 0.1381
Std Dev 6.794
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

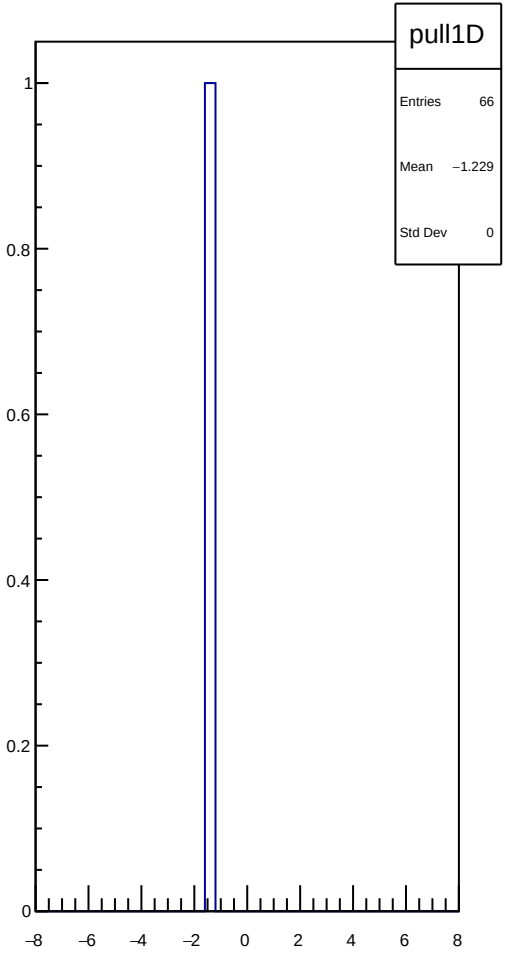

yield_bpm0i02X_rms vs run
χ² / ndf 2.768e+04 / 65
p0 0.007243 ± 6.442e−06
0.016
0.014
0.012
0.01
0.008
0.006

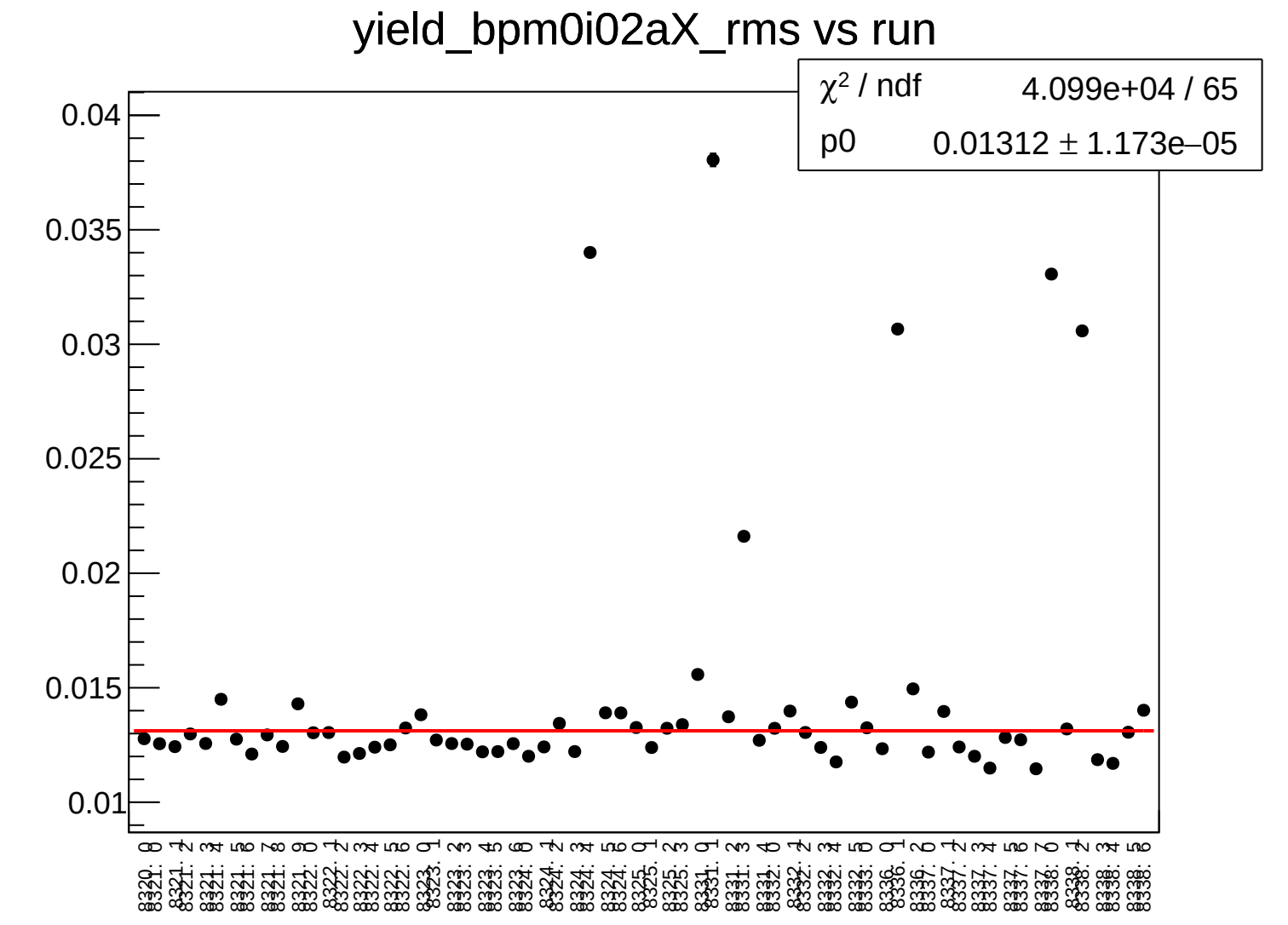

yield_bpm0i02Y_mean vs run
χ² / ndf 5.339e+06 / 65
p0 −3.712 ± 1.569e−05
−3.64
−3.66
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
pull
Entries 66
Mean −464.7
Std Dev 505.5
600
400
200
0
−200
−400
−600

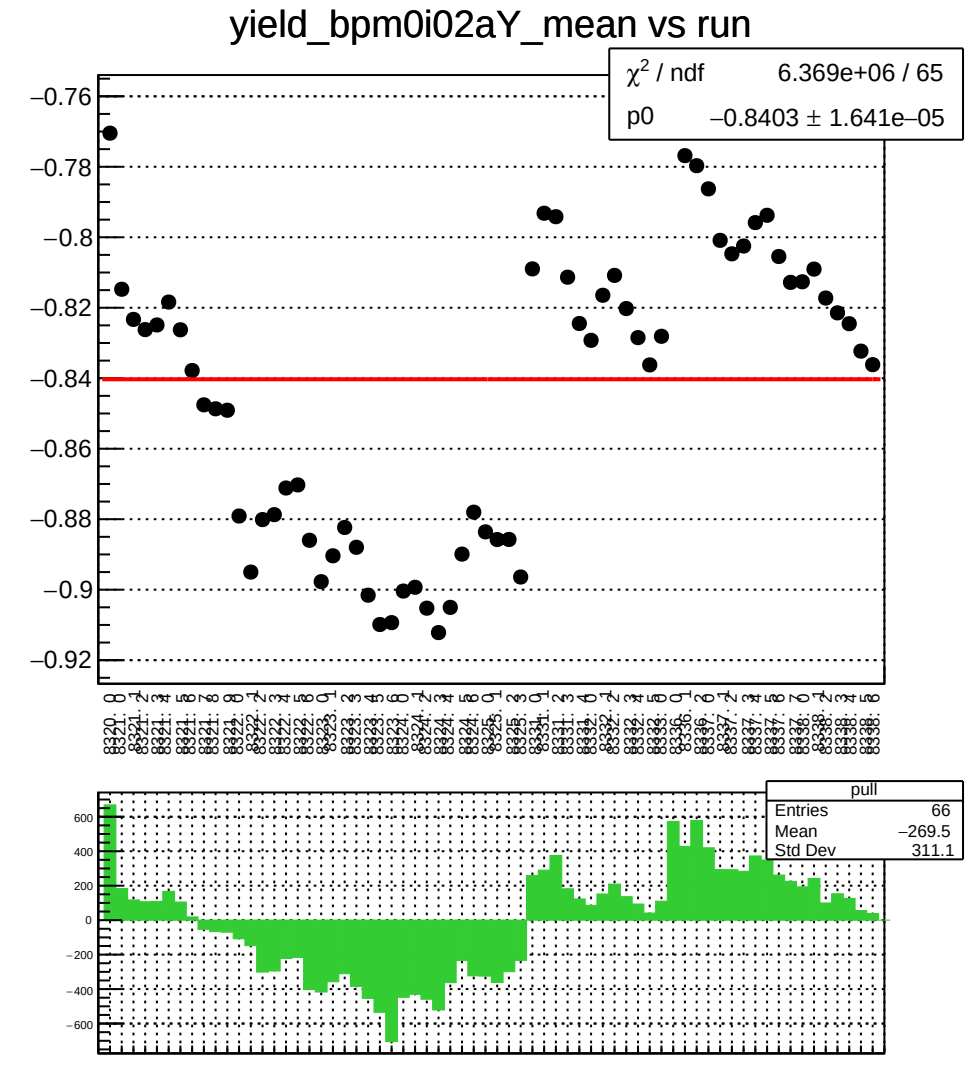

pull1D
Entries 66
Mean −6.273
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

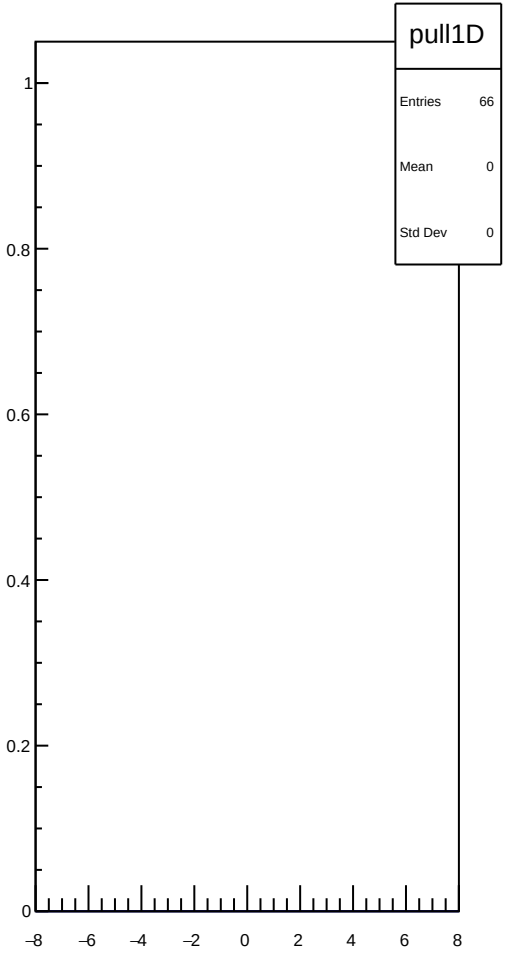

yield_bpm0i02Y_rms vs run
χ² / ndf 3.152e+04 / 65
p0 0.01245 ± 1.109e–05
0.03
0.025
0.02
0.015
0.01

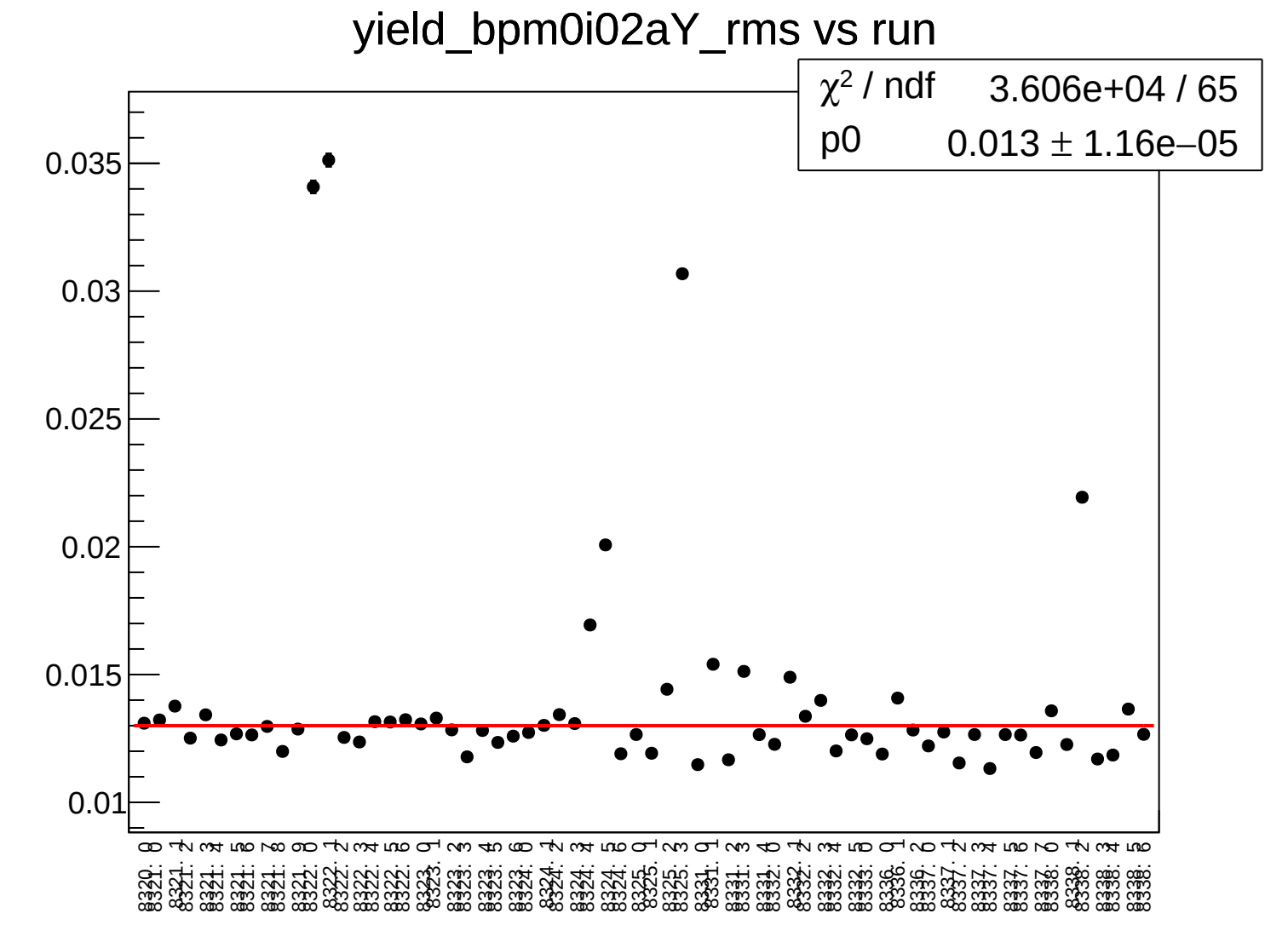

yield_bpm0i02aX_mean vs run
χ² / ndf 2.371e+06 / 65
p0 1.376 ± 1.659e−05
1.42
1.4
1.38
1.36
1.34
1.32
1.3
pull
Entries 66
Mean 253.3
Std Dev 226.5
400
200
0
−200
−400
−600

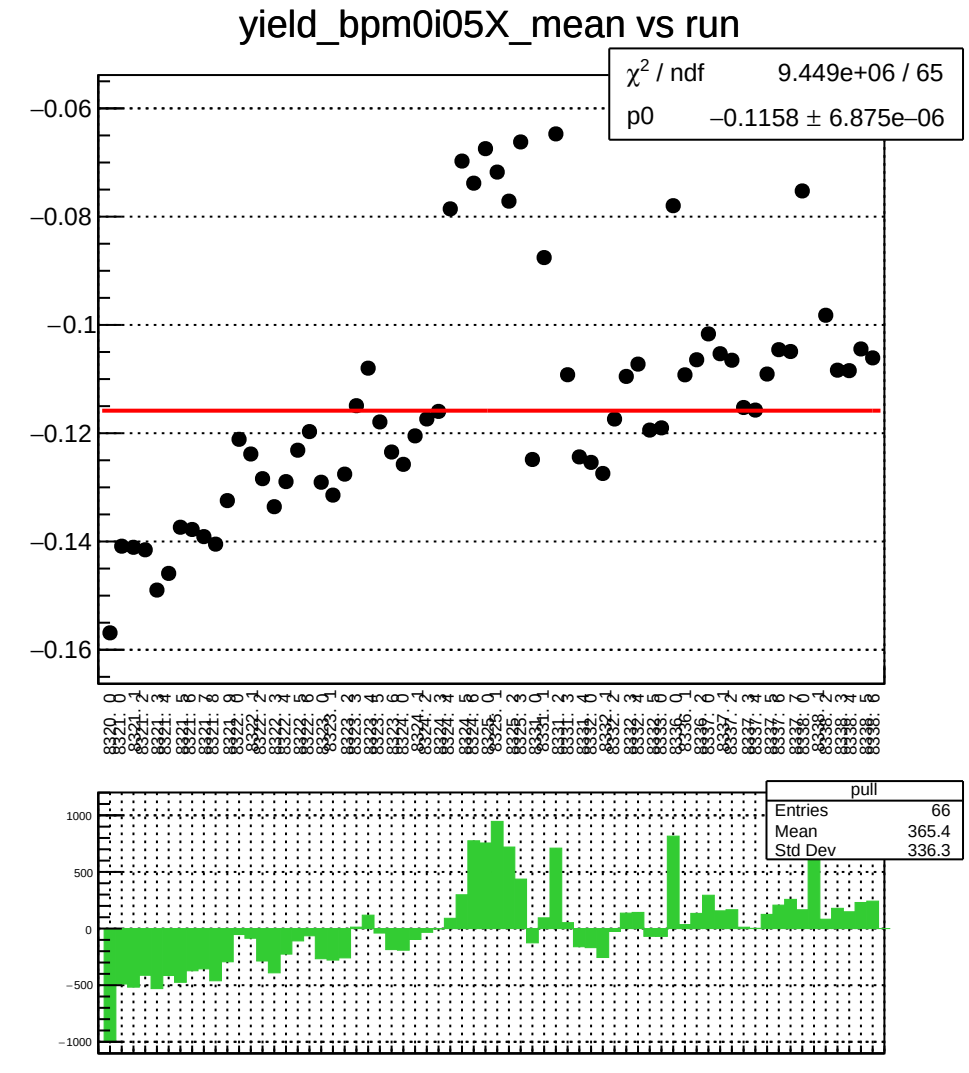

pull1D
Entries 66
Mean −1.229
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

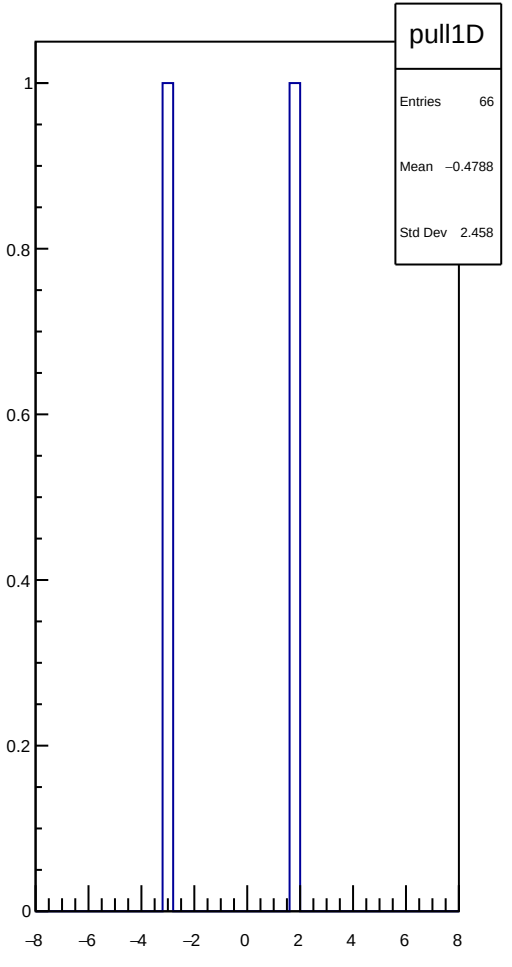

yield_bpm0i02aX_rms vs run
χ² / ndf 4.099e+04 / 65
p0 0.01312 ± 1.173e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

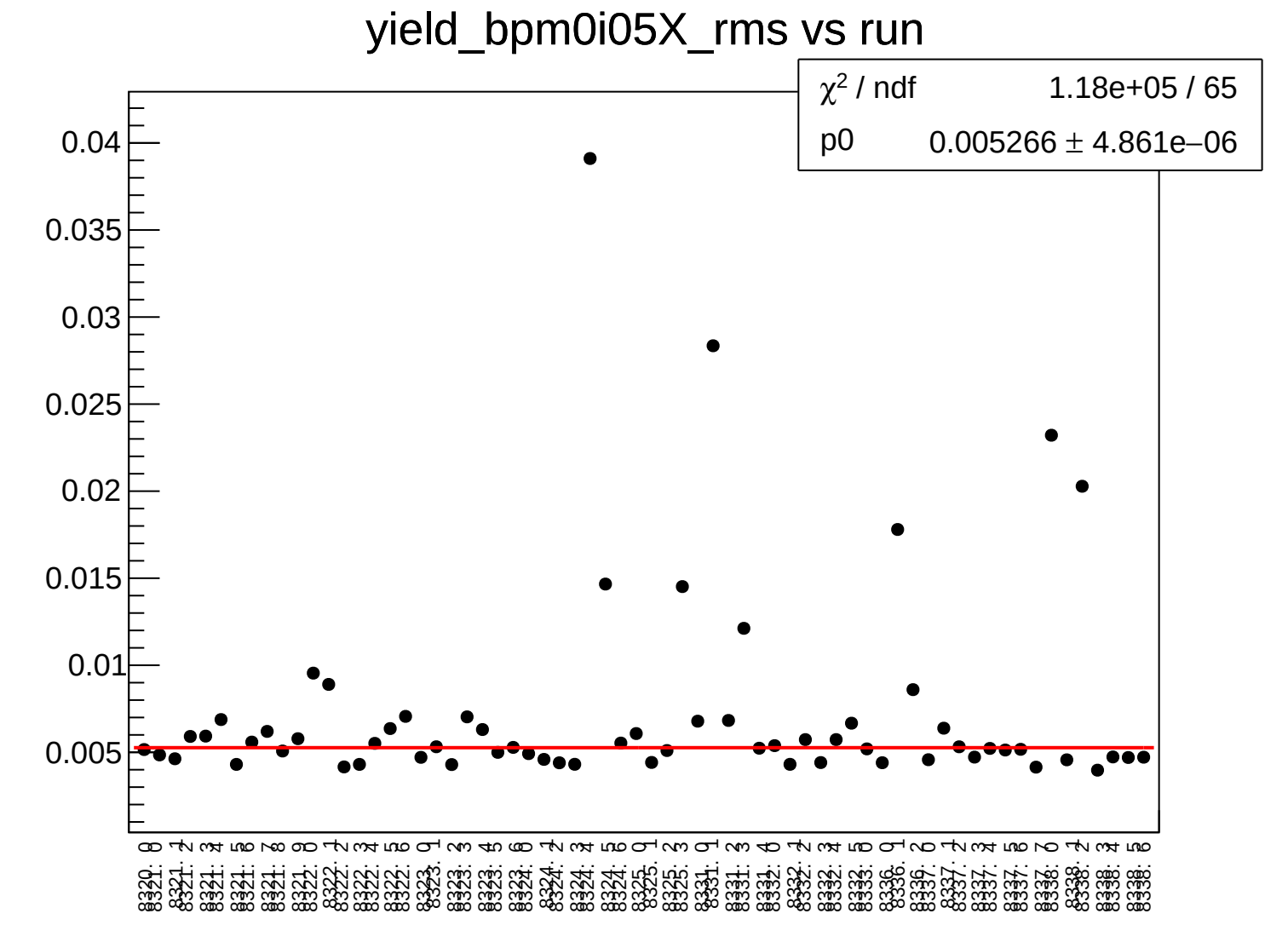

yield_bpm0i02aY_mean vs run
χ² / ndf 6.369e+06 / 65
p0 −0.8403 ± 1.641e−05
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 66
Mean −269.5
Std Dev 311.1
600
400
200
0
−200
−400
−600

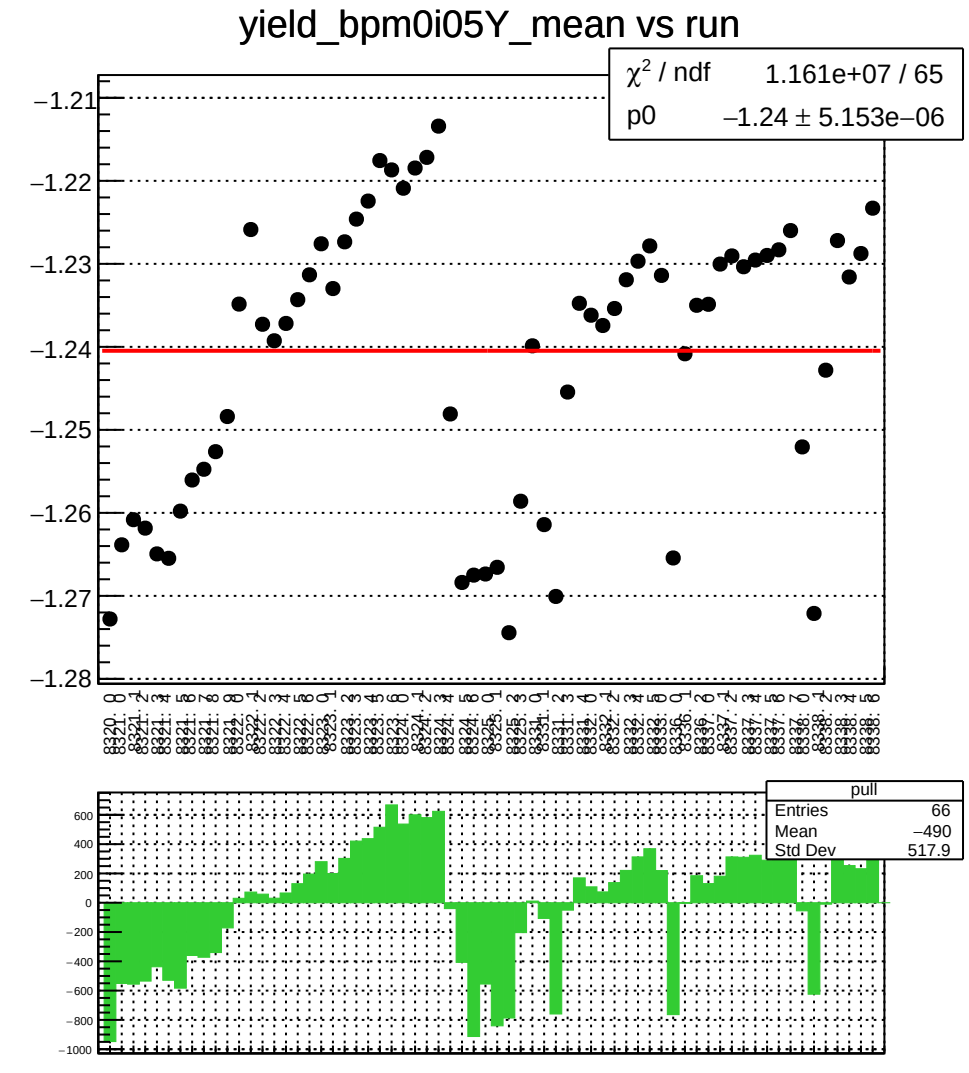

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

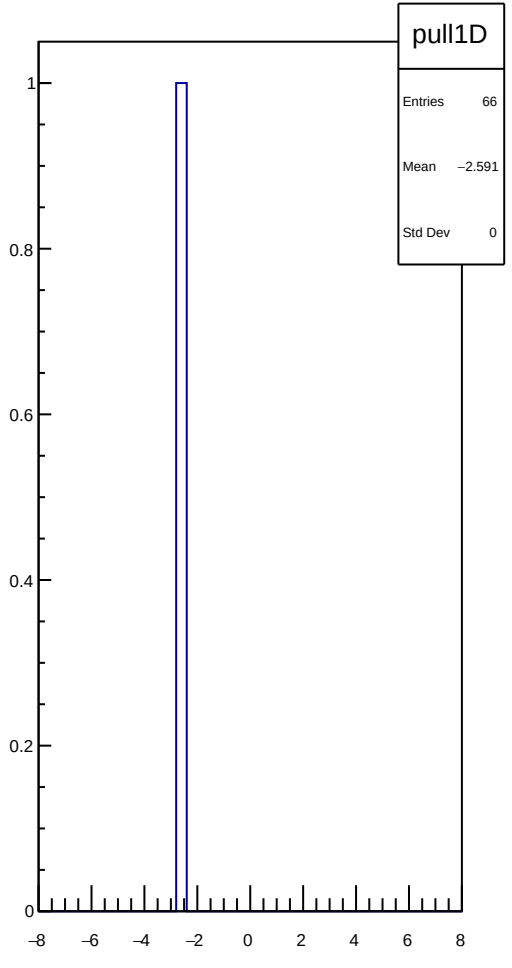

yield_bpm0i02aY_rms vs run
χ² / ndf 3.606e+04 / 65
p0 0.013 ± 1.16e−05
0.035
0.03
0.025
0.02
0.015
0.01

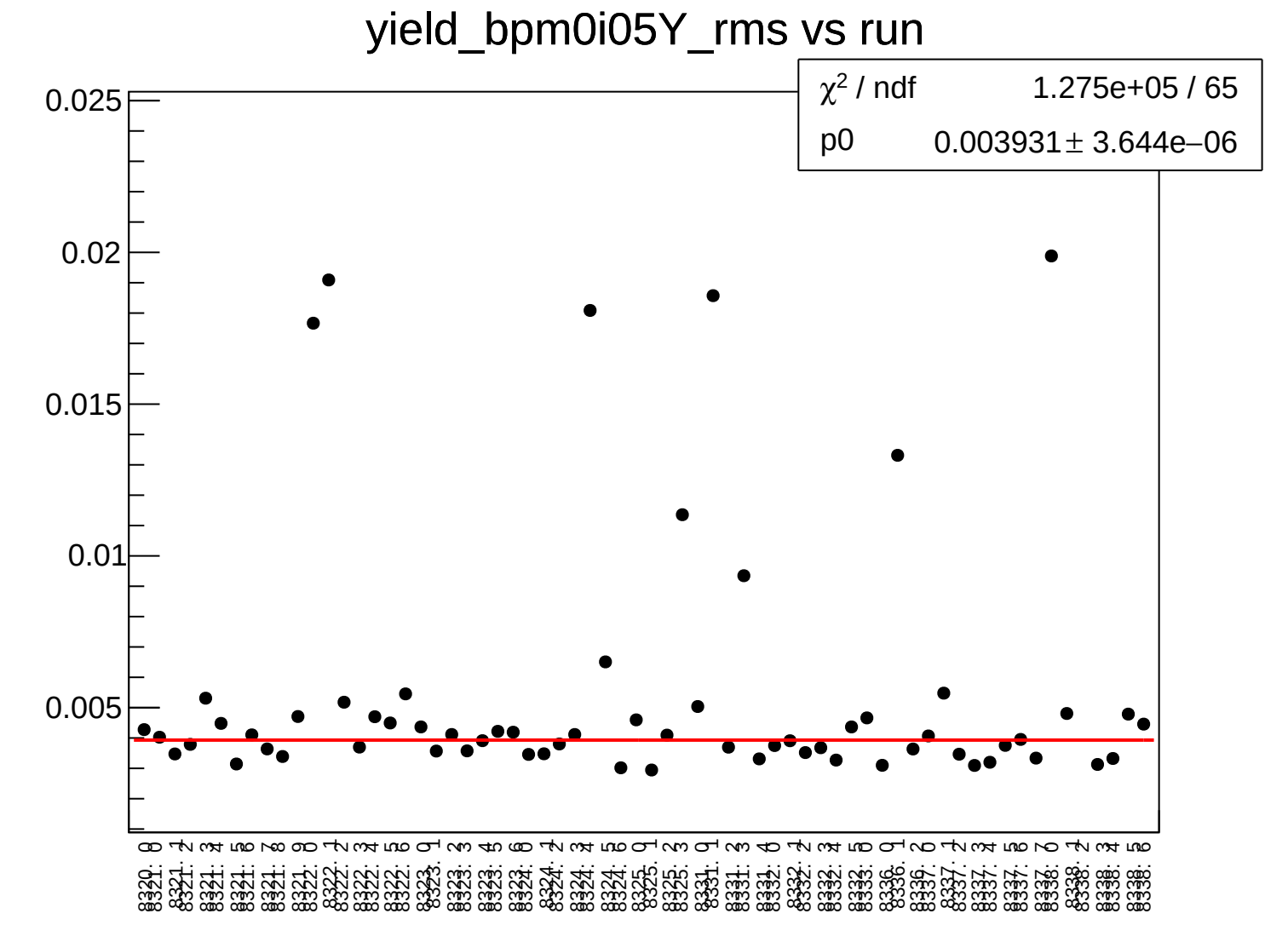

yield_bpm0i05X_mean vs run
χ² / ndf 9.449e+06 / 65
p0 −0.1158 ± 6.875e−06
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
pull
Entries 66
Mean 365.4
Std Dev 336.3
1000
500
0
−500
−1000

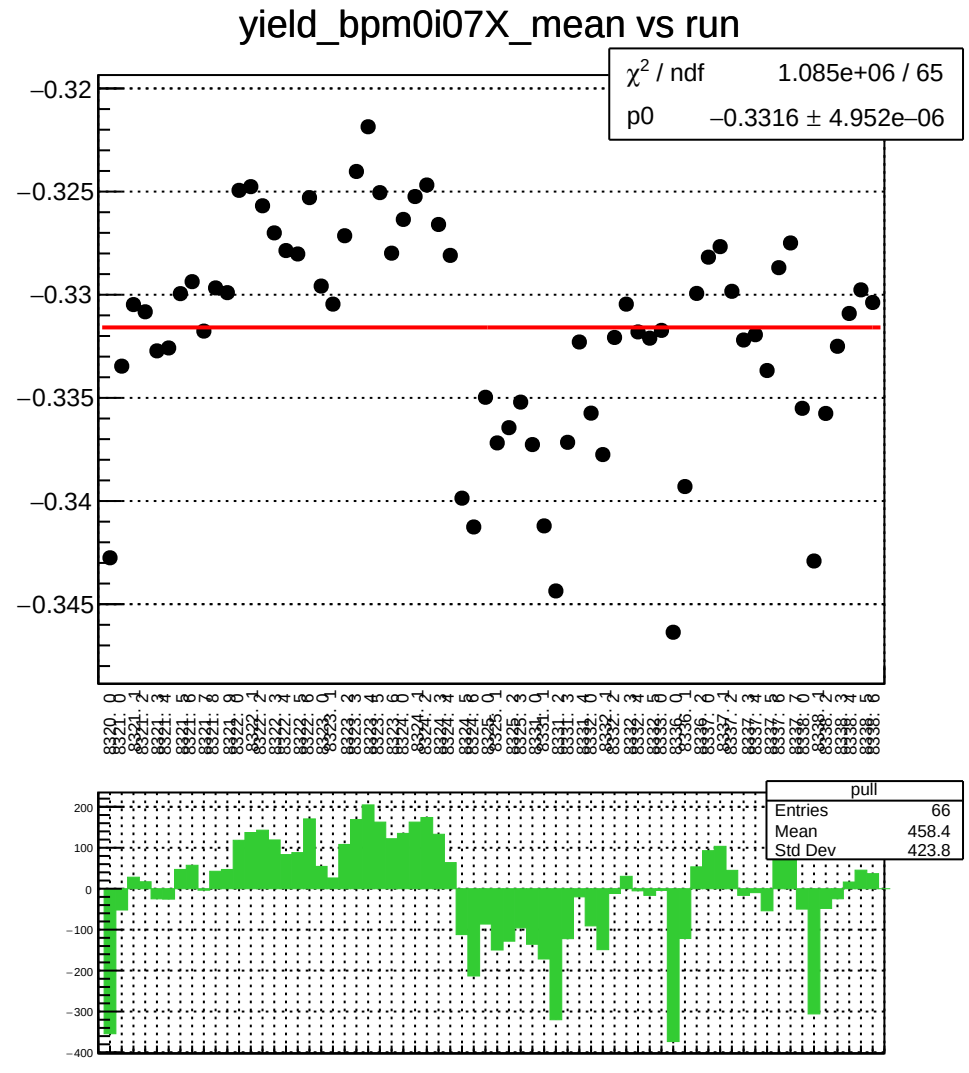

pull1D
Entries 66
Mean −0.4788
Std Dev 2.458
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

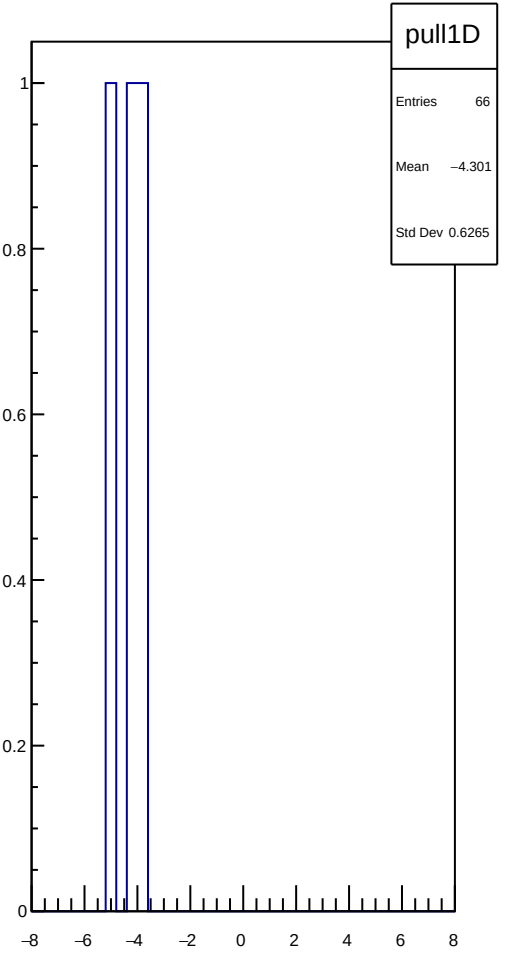

yield_bpm0i05X_rms vs run
χ² / ndf 1.18e+05 / 65
p0 0.005266 ± 4.861e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

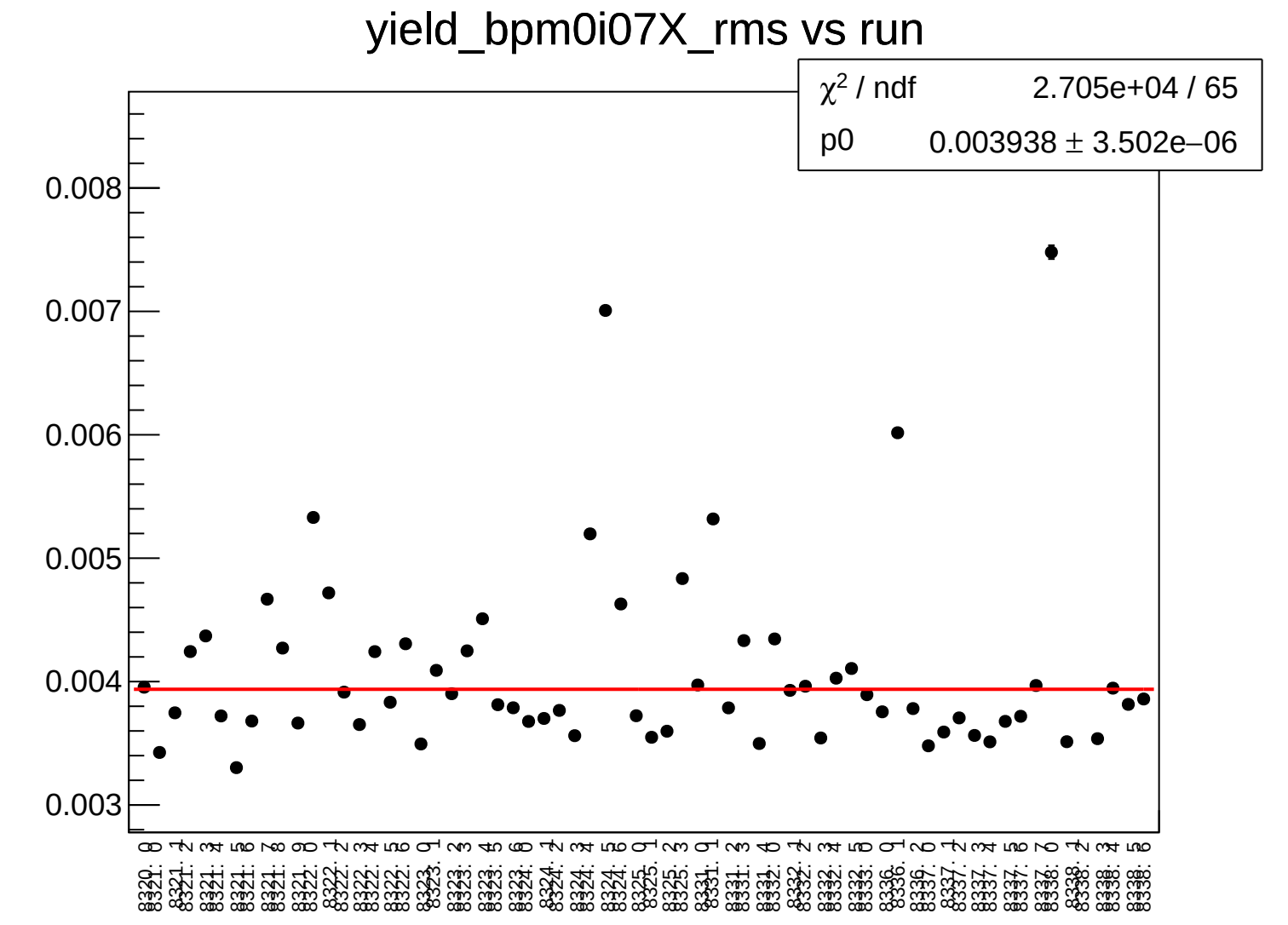

yield_bpm0i05Y_mean vs run
χ² / ndf 1.161e+07 / 65
p0 −1.24 ± 5.153e−06
pull
Entries 66
Mean −490
Std Dev 517.9

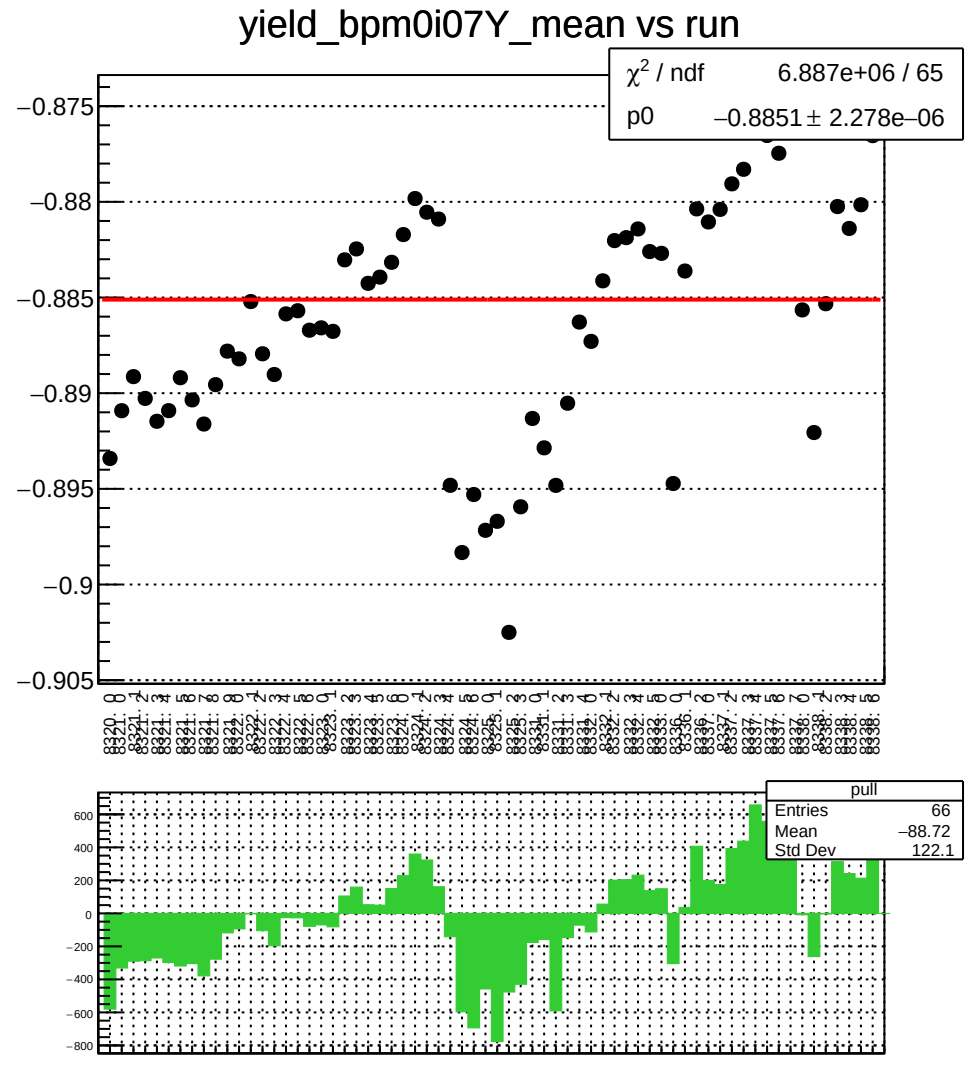

pull1D
Entries 66
Mean −2.591
Std Dev 0

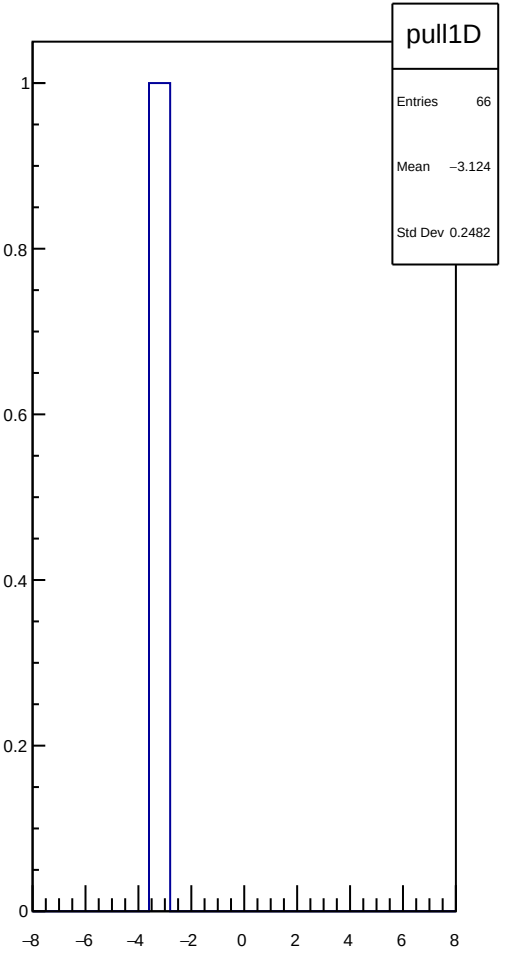

yield_bpm0i05Y_rms vs run
χ² / ndf 1.275e+05 / 65
p0 0.003931 ± 3.644e−06
0.025
0.02
0.015
0.01
0.005

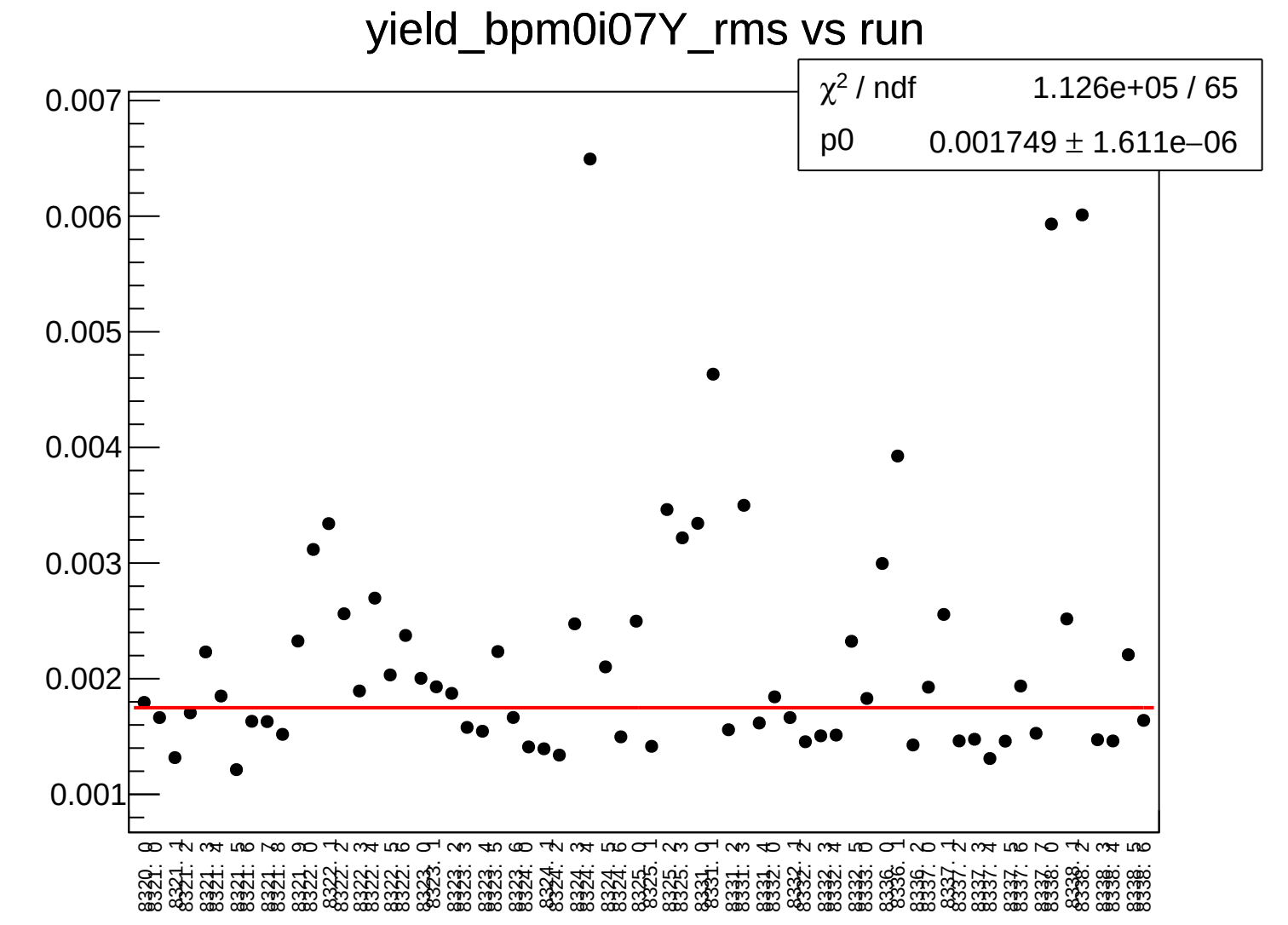

yield_bpm0i07X_mean vs run
χ² / ndf 1.085e+06 / 65
p0 −0.3316 ± 4.952e−06
−0.32
−0.325
−0.33
−0.335
−0.34
−0.345
pull
Entries 66
Mean 458.4
Std Dev 423.8
200
100
0
−100
−200
−300
−400

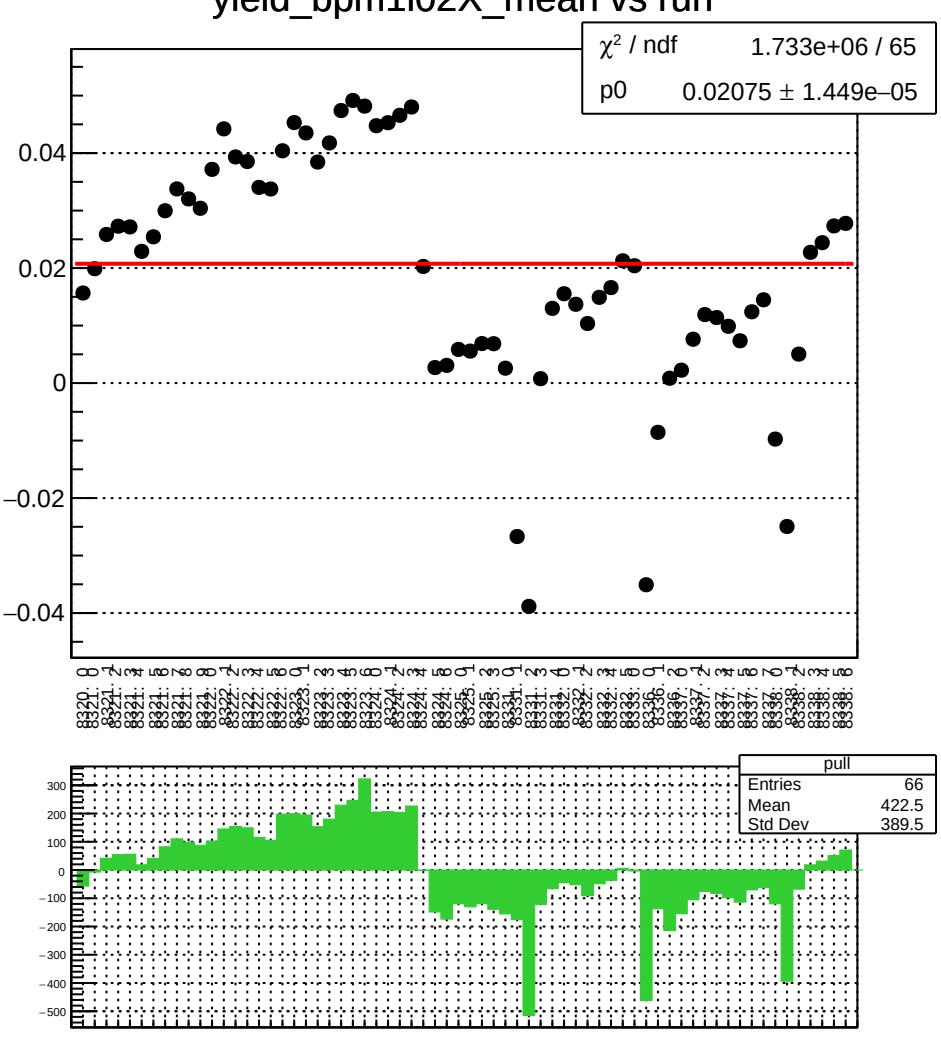

pull1D
Entries 66
Mean −4.301
Std Dev 0.6265
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

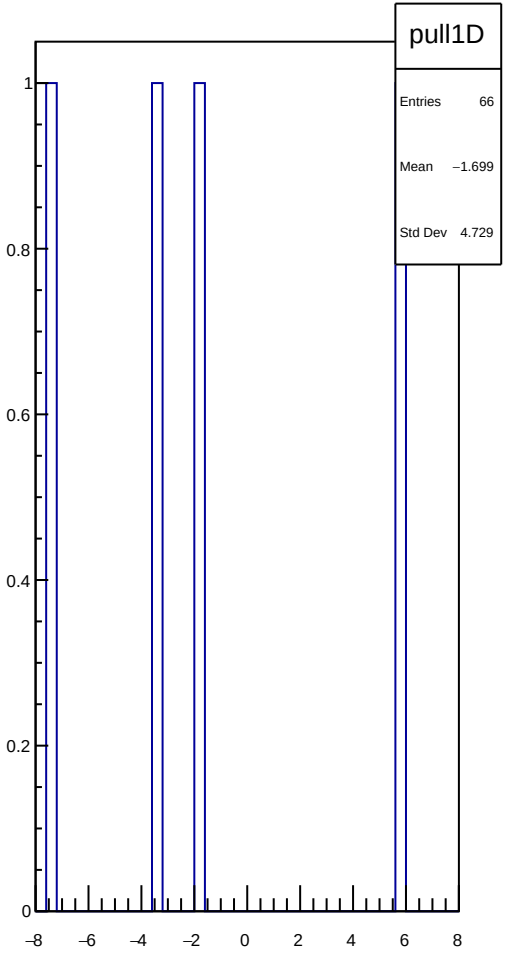

yield_bpm0i07X_rms vs run
χ² / ndf 2.705e+04 / 65
p0 0.003938 ± 3.502e−06
0.008
0.007
0.006
0.005
0.004
0.003

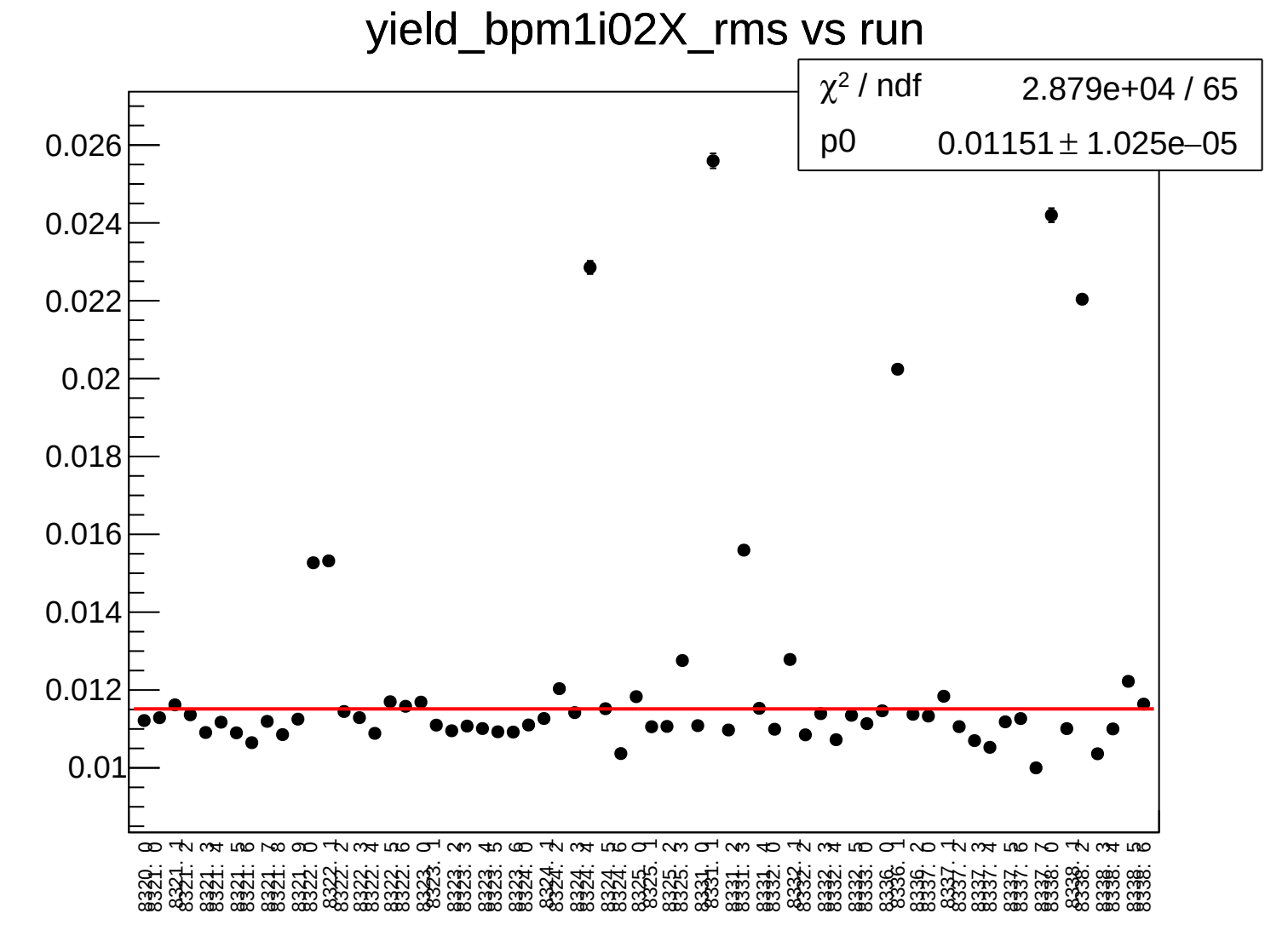

yield_bpm0i07Y_mean vs run
χ² / ndf 6.887e+06 / 65
p0 −0.8851 ± 2.278e−06
−0.875
−0.88
−0.885
−0.89
−0.895
−0.9
−0.905
pull
Entries 66
Mean −88.72
Std Dev 122.1
600
400
200
0
−200
−400
−600
−800

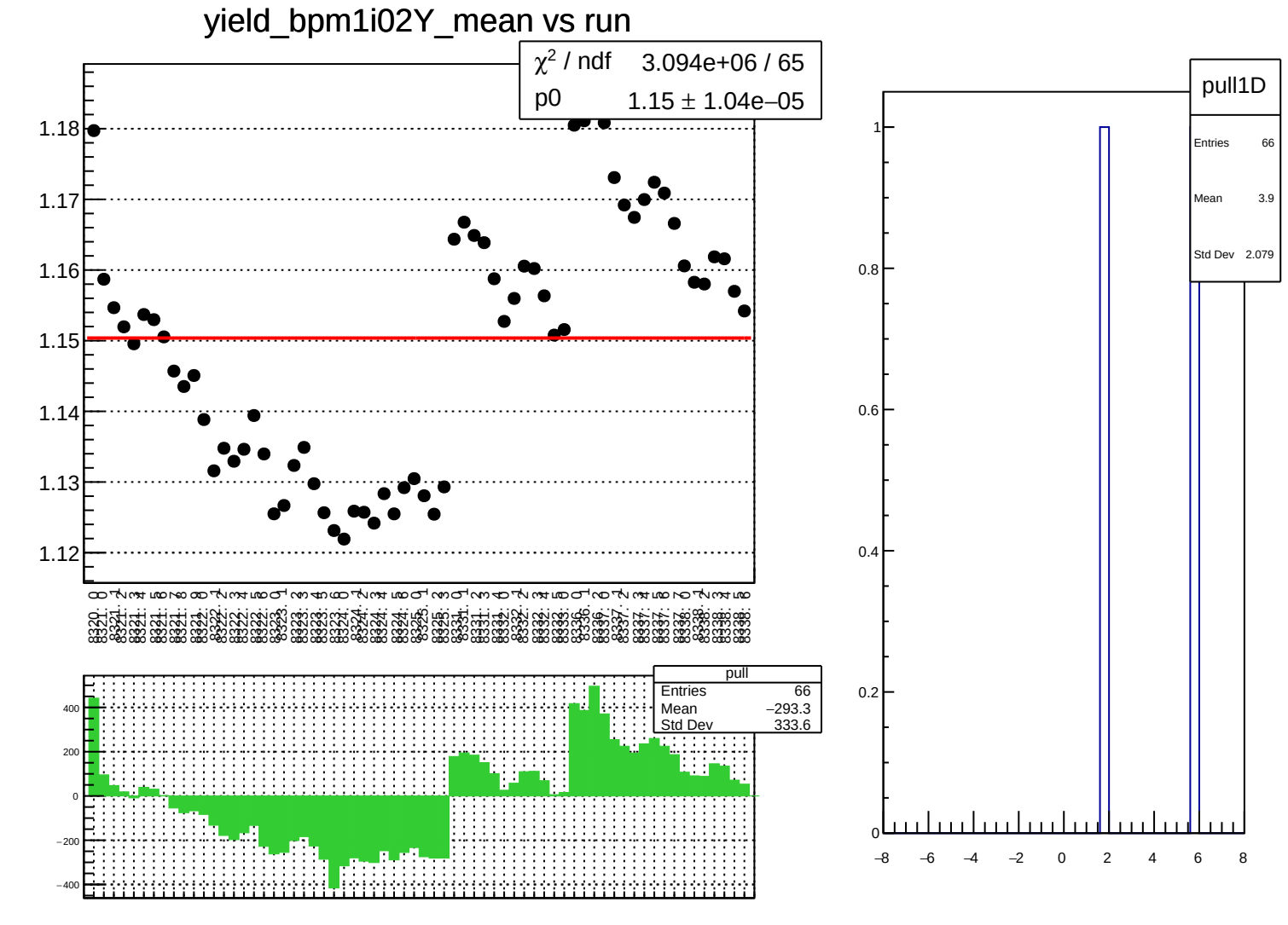

pull1D
Entries 66
Mean −3.124
Std Dev 0.2482
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

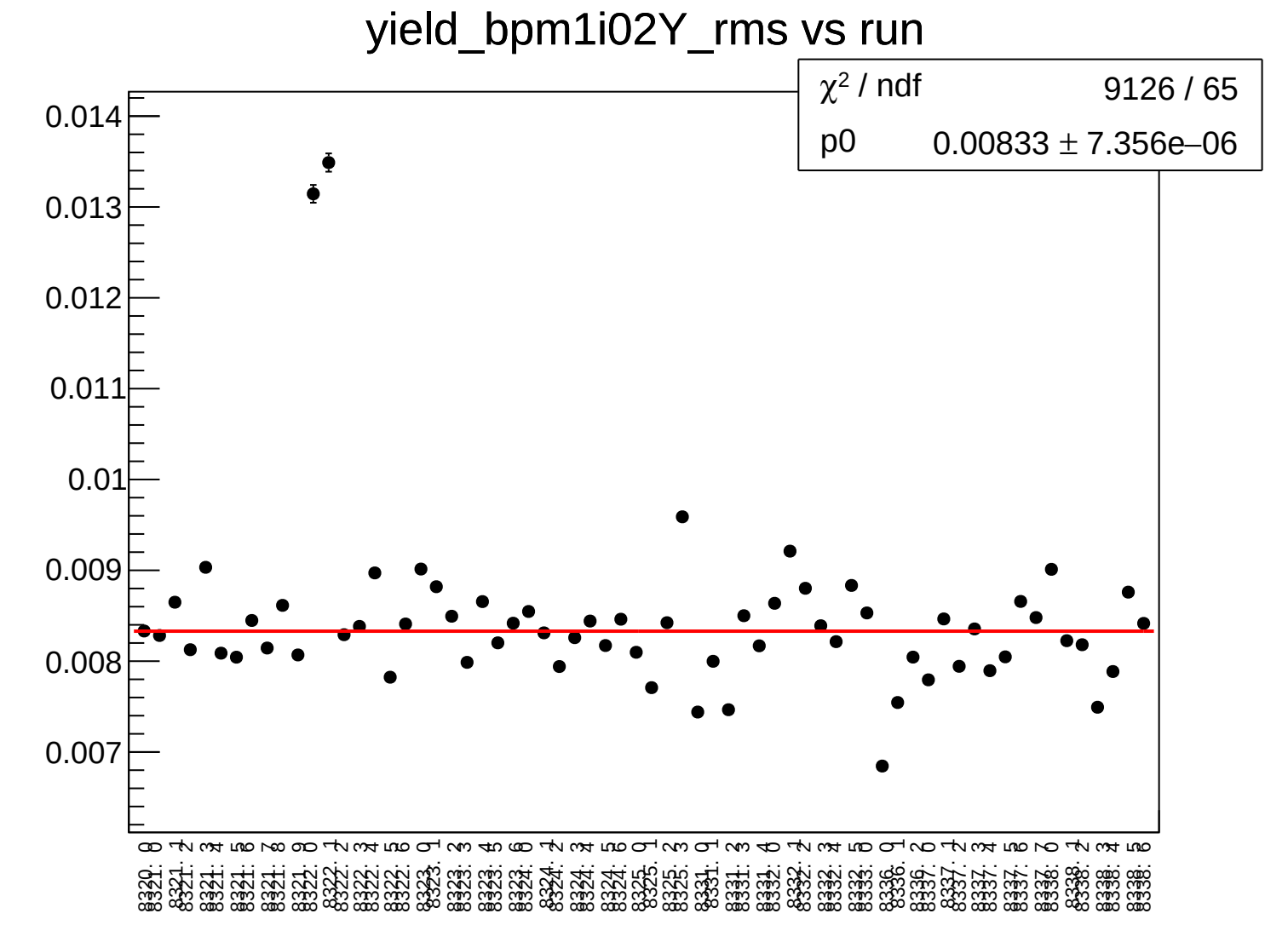

yield_bpm0i07Y_rms vs run
χ² / ndf 1.126e+05 / 65
p0 0.001749 ± 1.611e−06
0.007
0.006
0.005
0.004
0.003
0.002
0.001

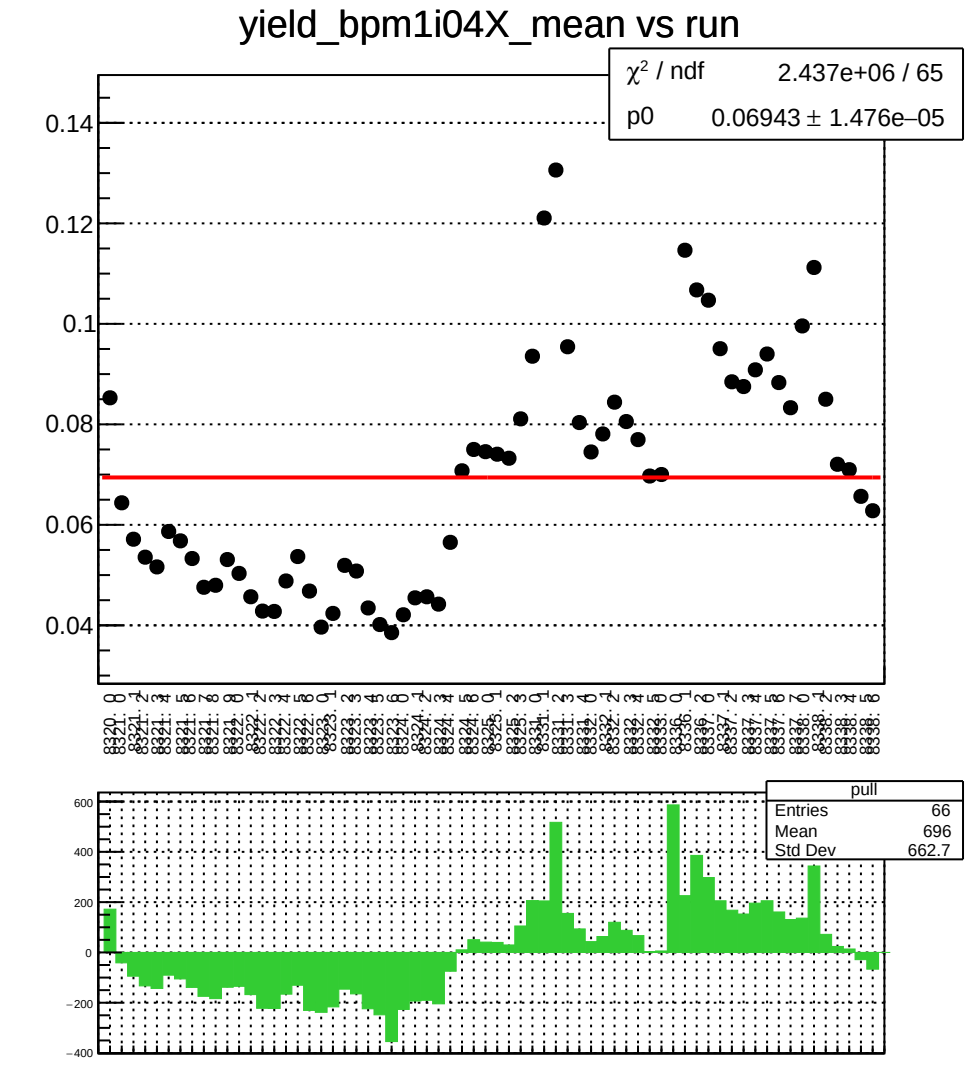

yield_bpm1i02X_mean vs run
χ² / ndf 1.733e+06 / 65
p0 0.02075 ± 1.449e–05
0.04
0.02
0
–0.02
–0.04
pull
Entries 66
Mean 422.5
Std Dev 389.5
300
200
100
0
–100
–200
–300
–400
–500

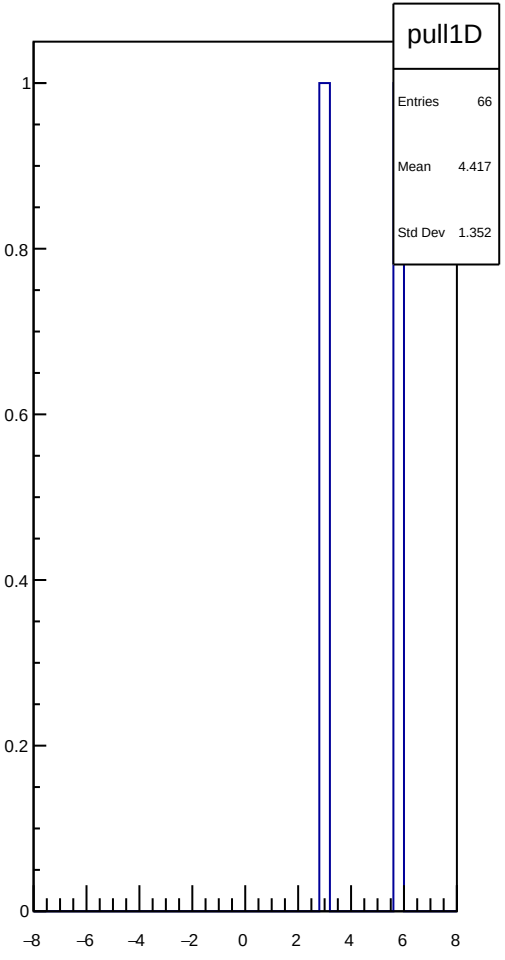

pull1D
Entries 66
Mean –1.699
Std Dev 4.729
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

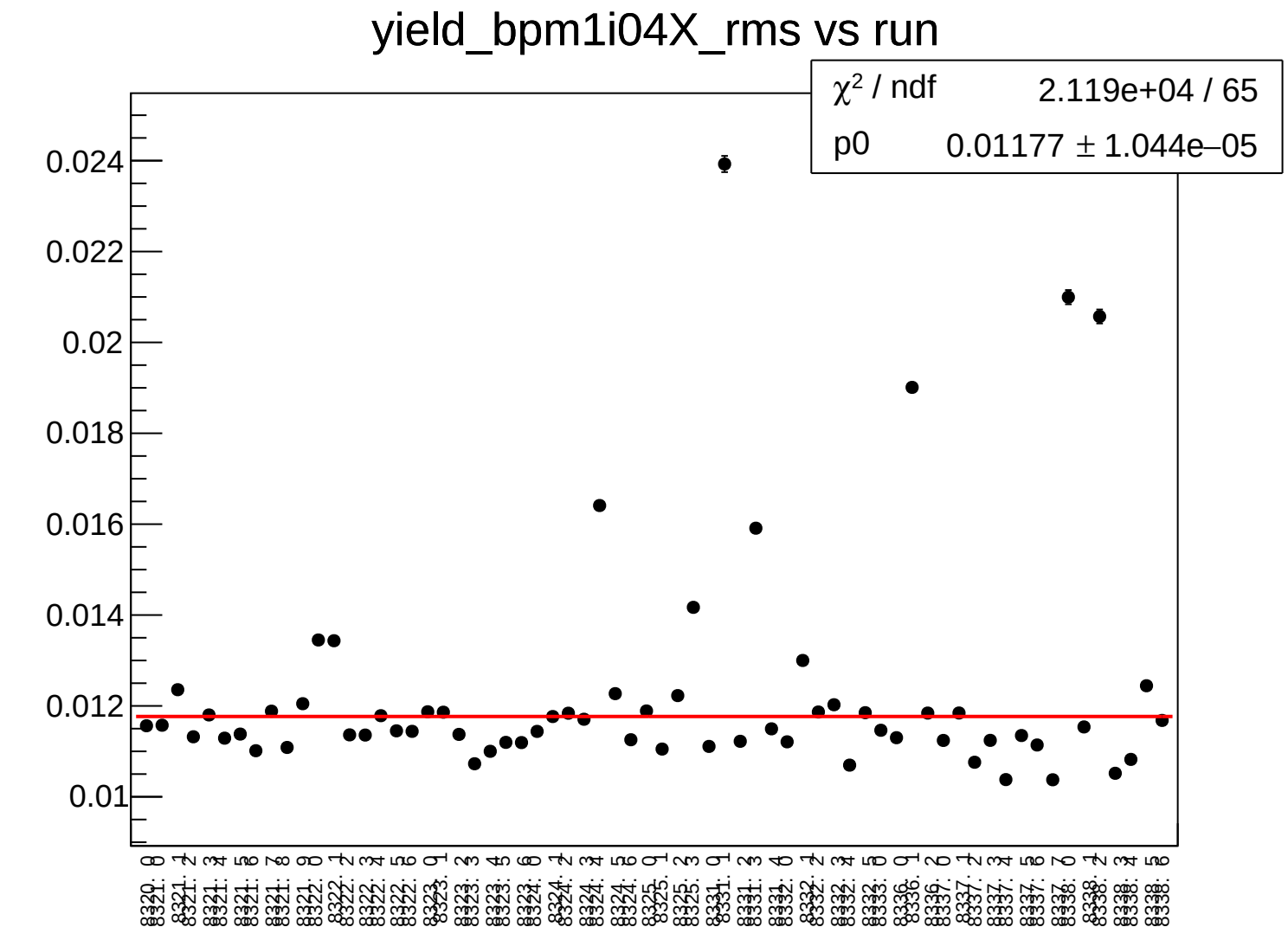

yield_bpm1i02X_rms vs run
χ² / ndf 2.879e+04 / 65
p0 0.01151 ± 1.025e–05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

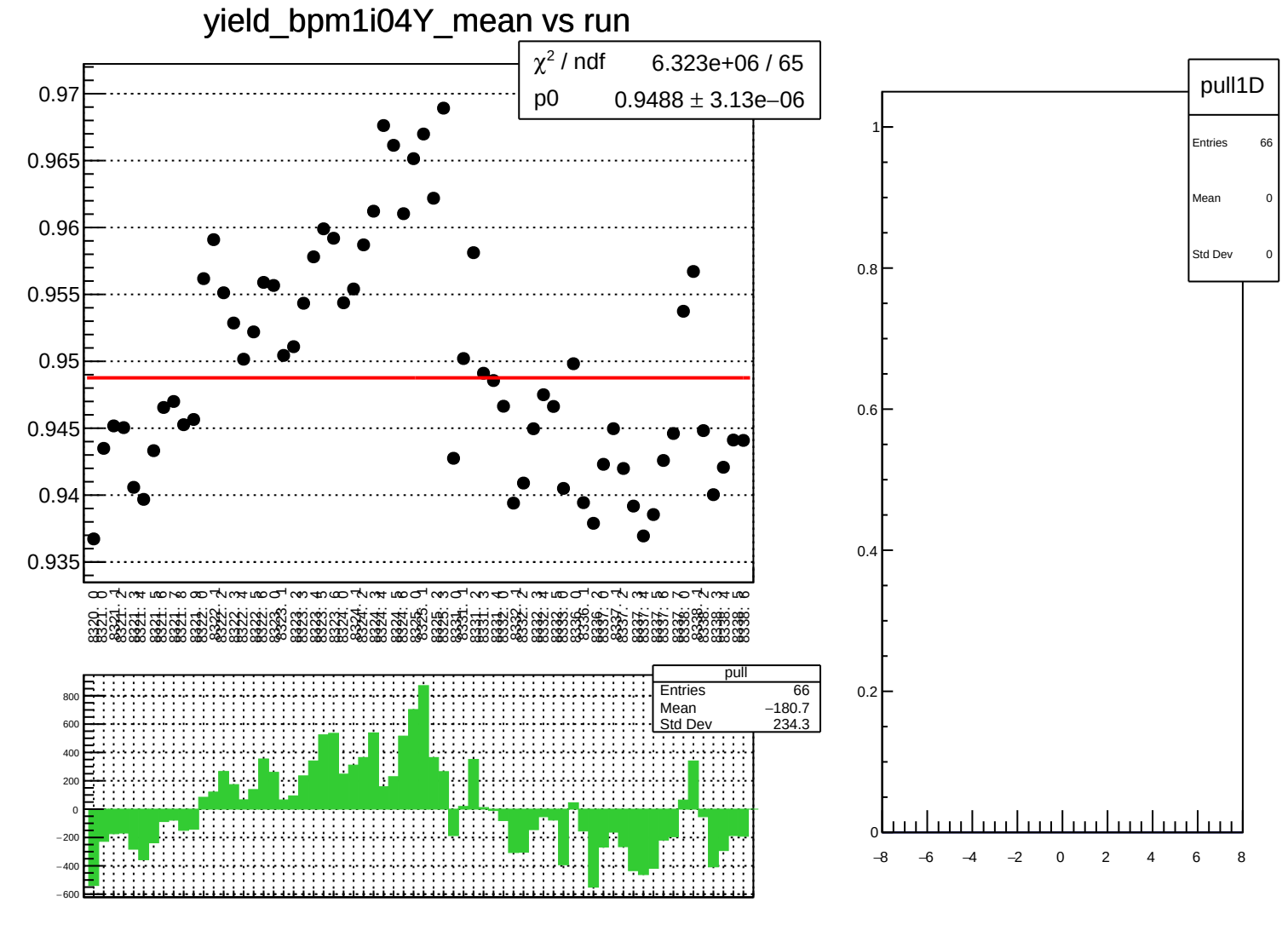

yield_bpm1i02Y_mean vs run
χ² / ndf 3.094e+06 / 65
p0 1.15 ± 1.04e−05
1.18
1.17
1.16
1.15
1.14
1.13
1.12
pull
Entries 66
Mean −293.3
Std Dev 333.6
400
200
0
−200
−400
pull1D
Entries 66
Mean 3.9
Std Dev 2.079
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

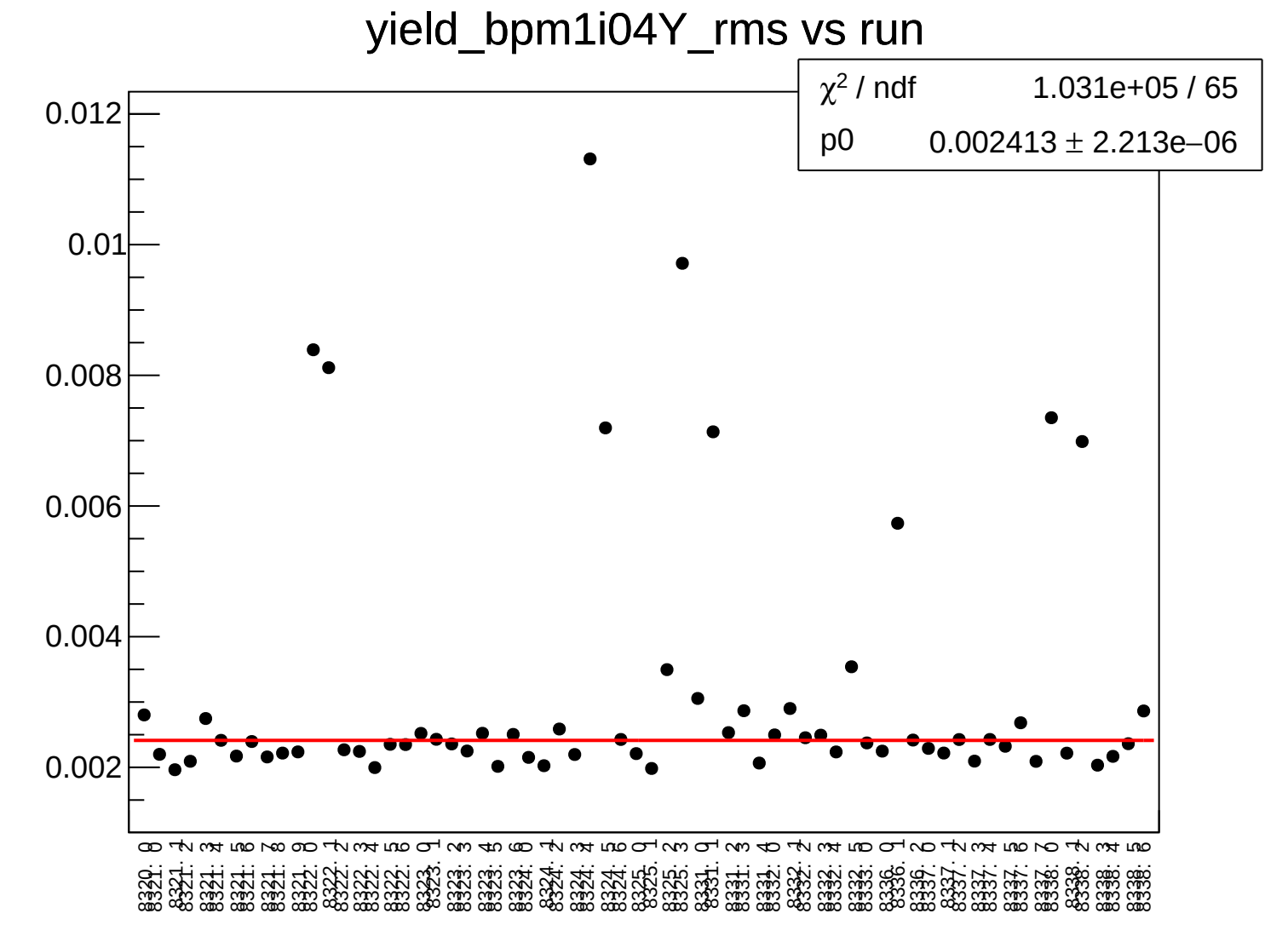

yield_bpm1i02Y_rms vs run
χ² / ndf 9126 / 65
p0 0.00833 ± 7.356e–06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

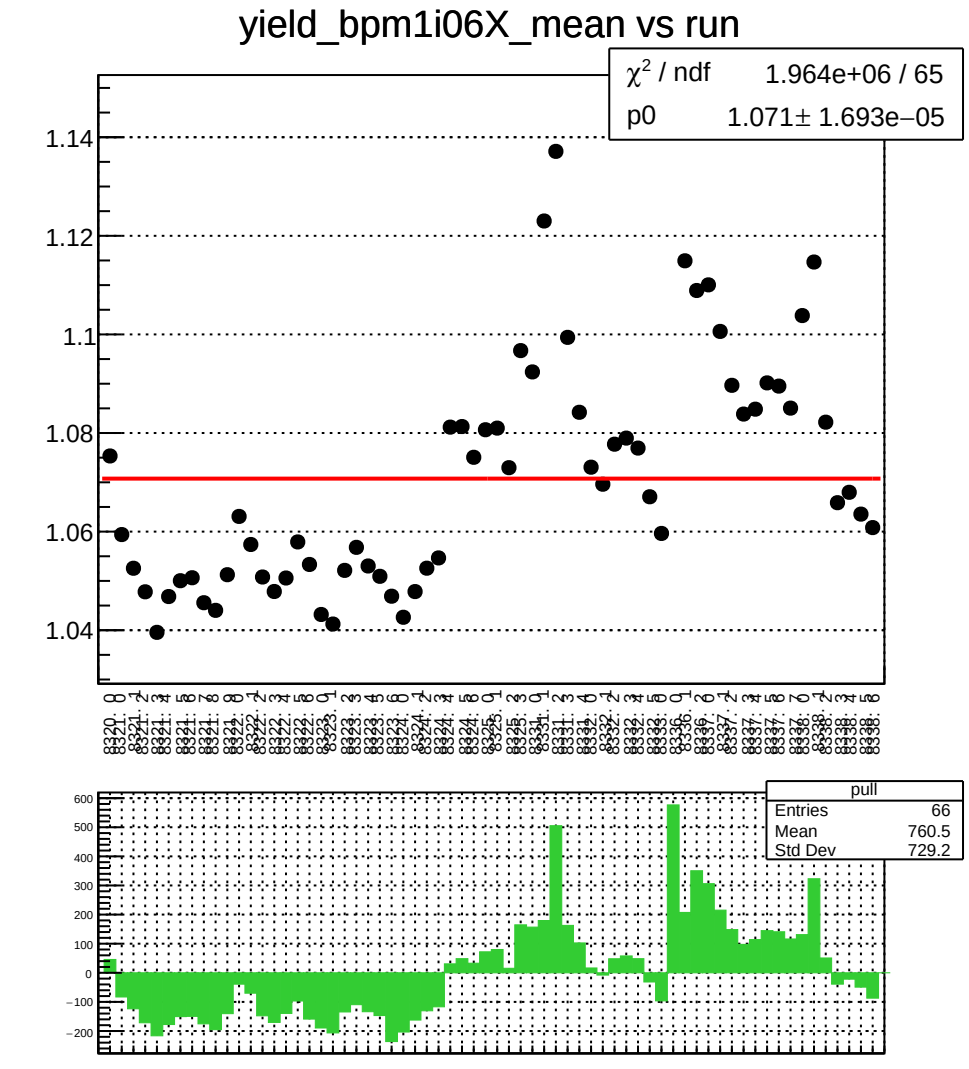

yield_bpm1i04X_mean vs run
χ² / ndf 2.437e+06 / 65
p0 0.06943 ± 1.476e−05
0.14
0.12
0.1
0.08
0.06
0.04
pull
Entries 66
Mean 696
Std Dev 662.7
600
400
200
0
−200
−400

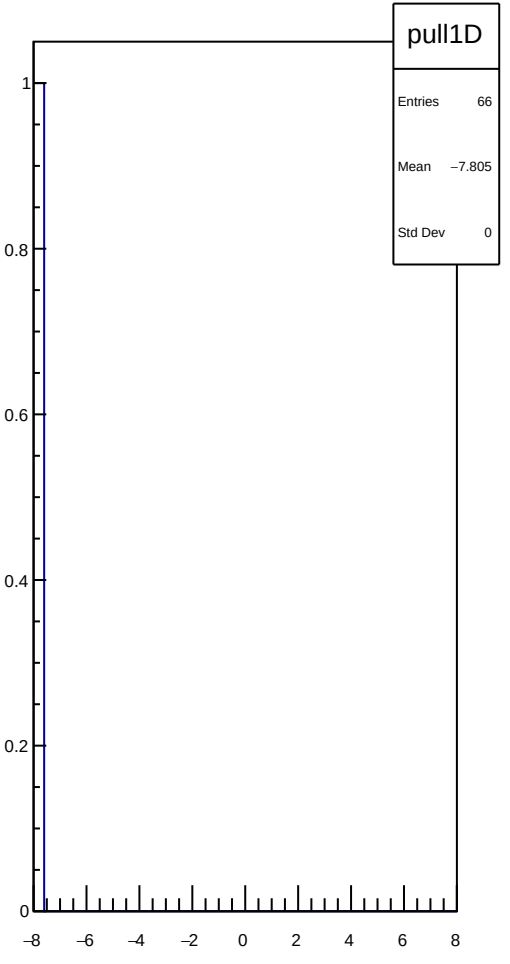

pull1D
Entries 66
Mean 4.417
Std Dev 1.352
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

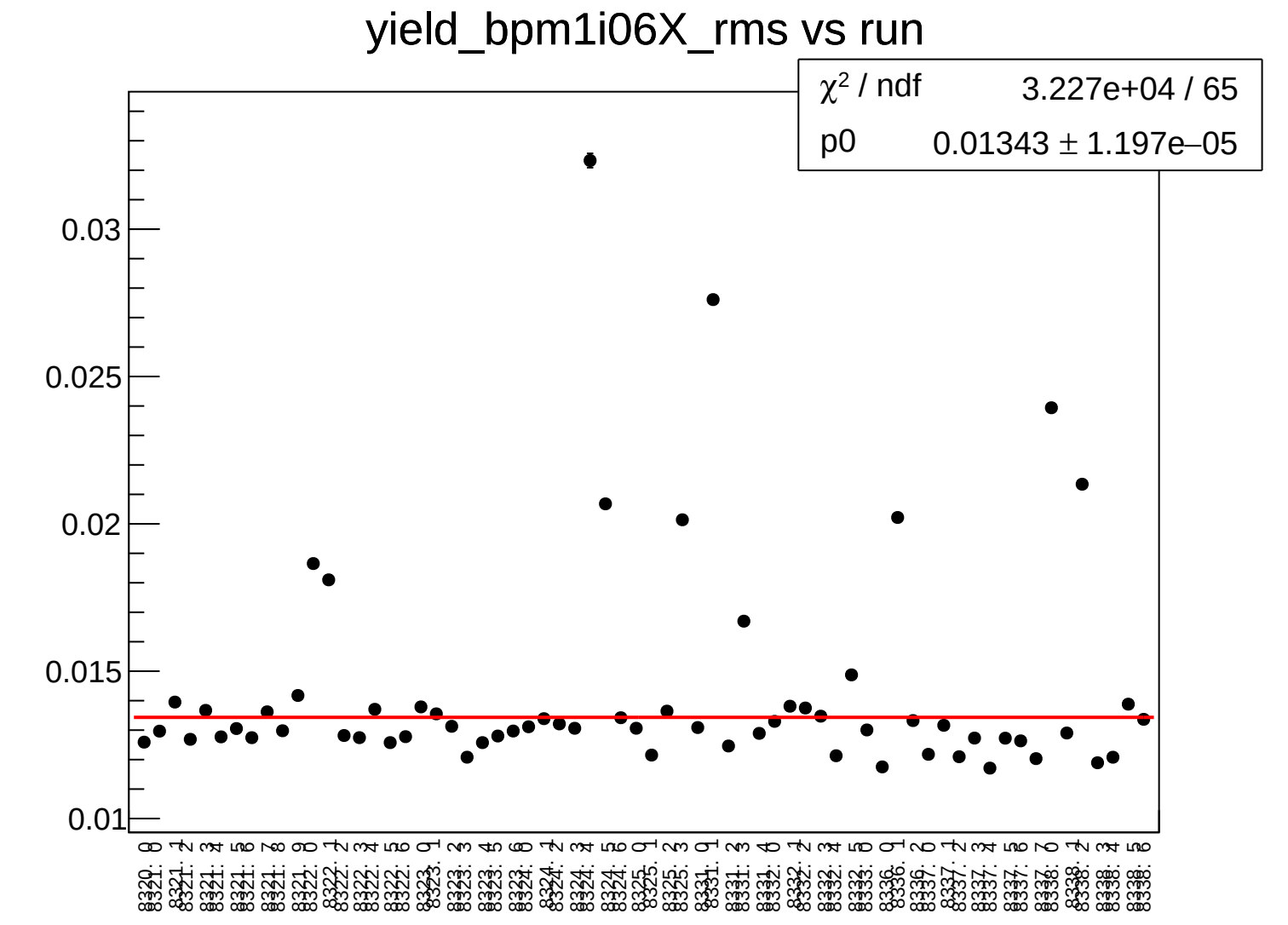

yield_bpm1i04X_rms vs run
χ² / ndf 2.119e+04 / 65
p0 0.01177 ± 1.044e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

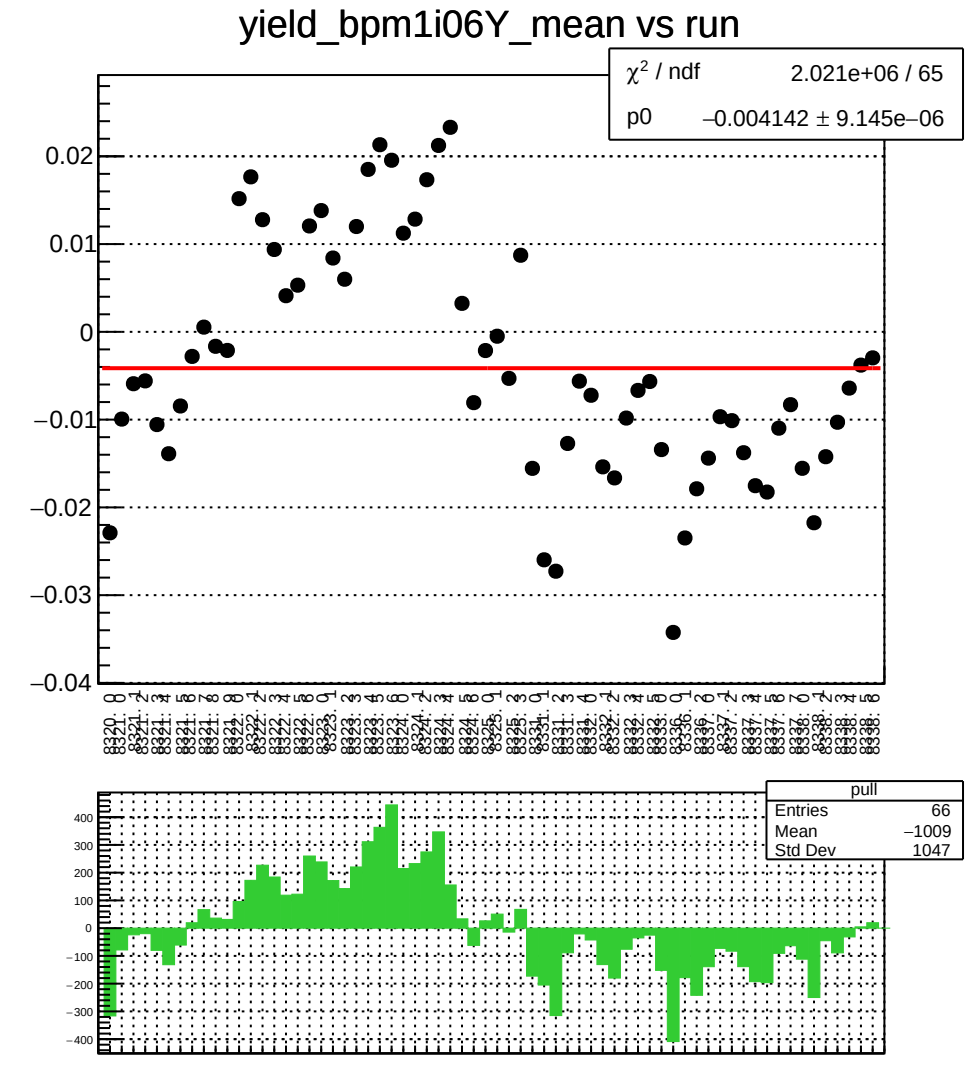

yield_bpm1i04Y_mean vs run
χ² / ndf 6.323e+06 / 65
p0 0.9488 ± 3.13e−06
0.97
0.965
0.96
0.955
0.95
0.945
0.94
0.935
pull
Entries 66
Mean −180.7
Std Dev 234.3
800
600
400
200
0
−200
−400
−600
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

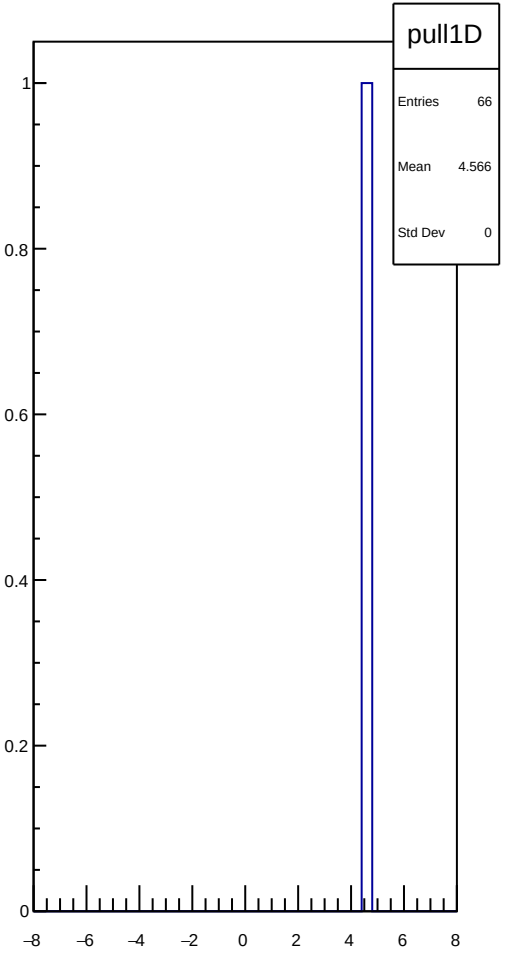

yield_bpm1i04Y_rms vs run
χ² / ndf 1.031e+05 / 65
p0 0.002413 ± 2.213e−06
0.012
0.01
0.008
0.006
0.004
0.002

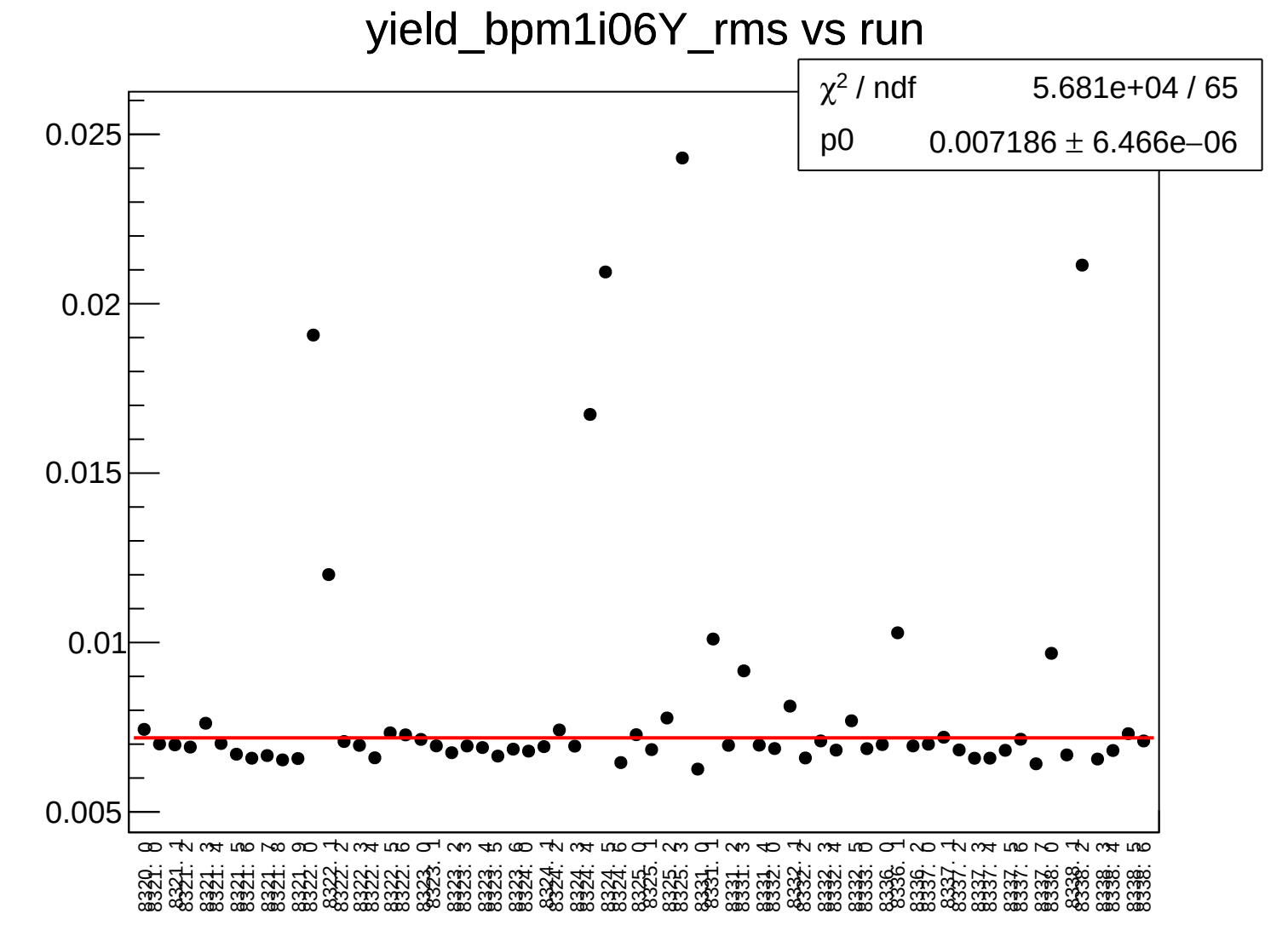

yield_bpm1i06X_mean vs run
χ² / ndf 1.964e+06 / 65
p0 1.071± 1.693e−05
1.14
1.12
1.1
1.08
1.06
1.04
pull
Entries 66
Mean 760.5
Std Dev 729.2
600
500
400
300
200
100
0
−100
−200

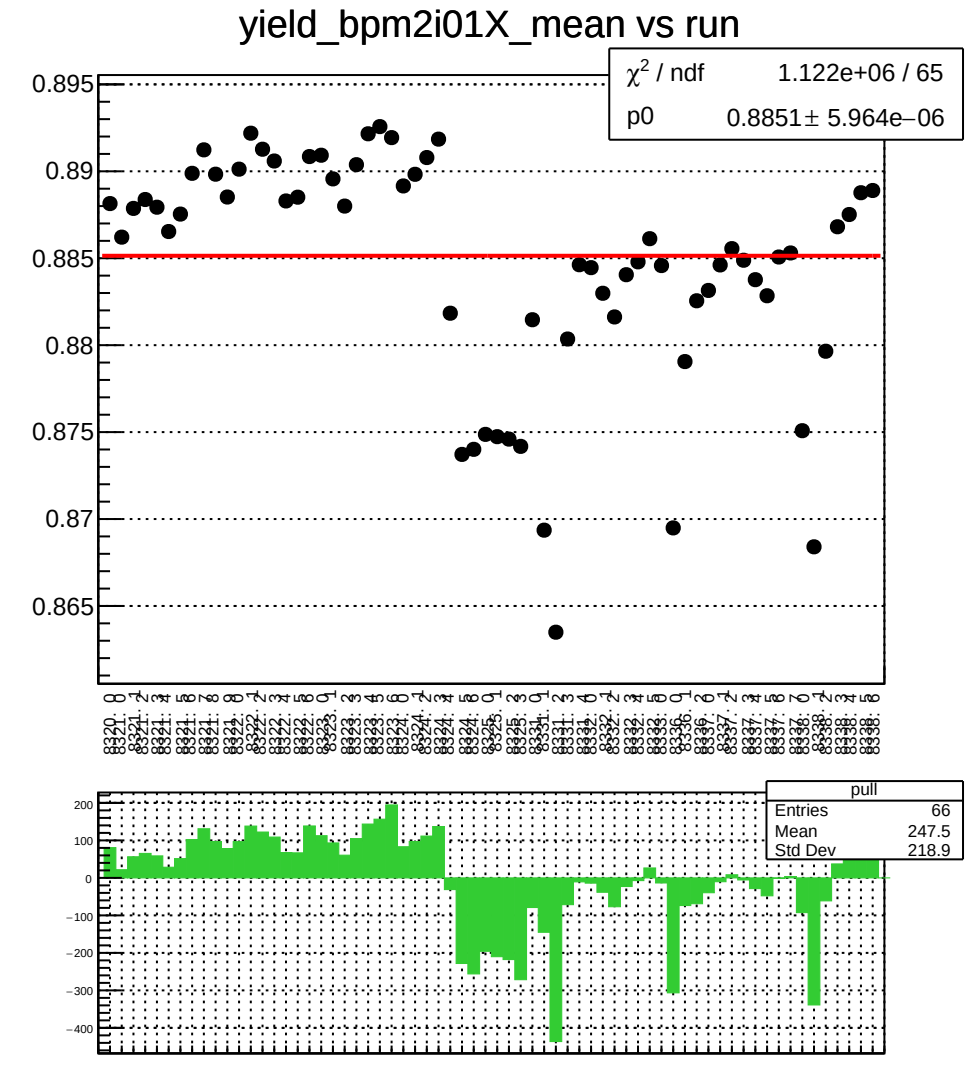

pull1D
Entries 66
Mean −7.805
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

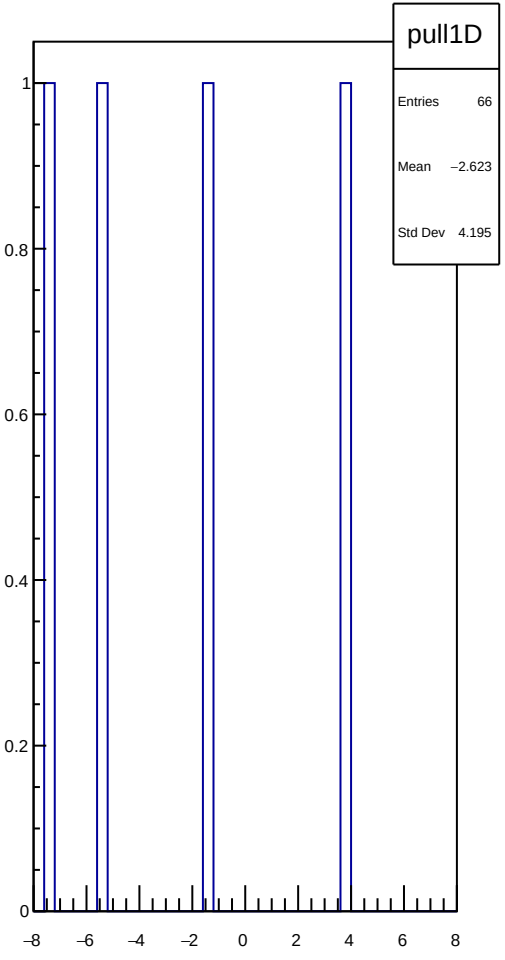

yield_bpm1i06X_rms vs run
χ² / ndf 3.227e+04 / 65
p0 0.01343 ± 1.197e–05
0.03
0.025
0.02
0.015
0.01

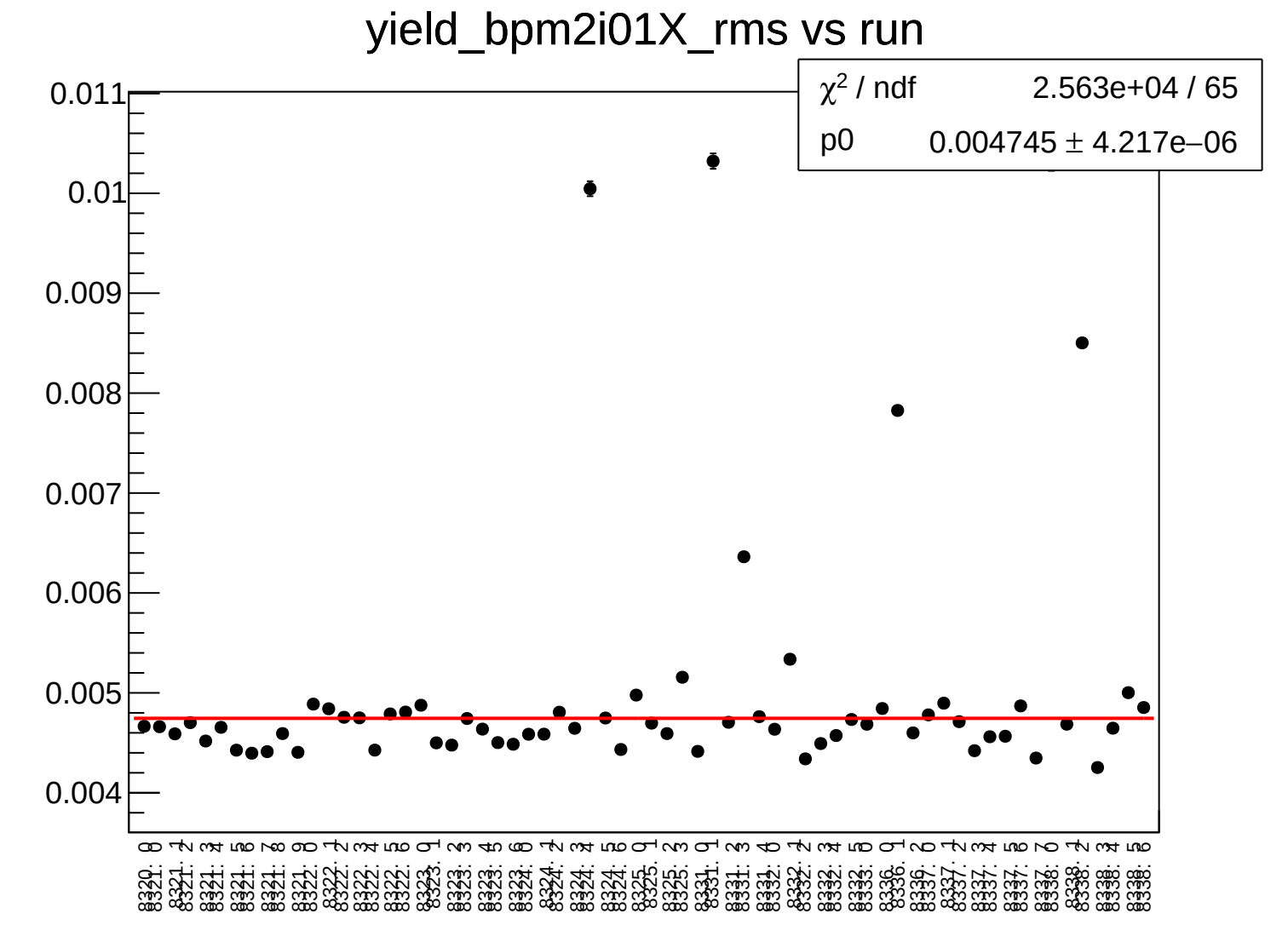

yield_bpm1i06Y_mean vs run
χ² / ndf 2.021e+06 / 65
p0 −0.004142 ± 9.145e−06
pull
Entries 66
Mean −1009
Std Dev 1047

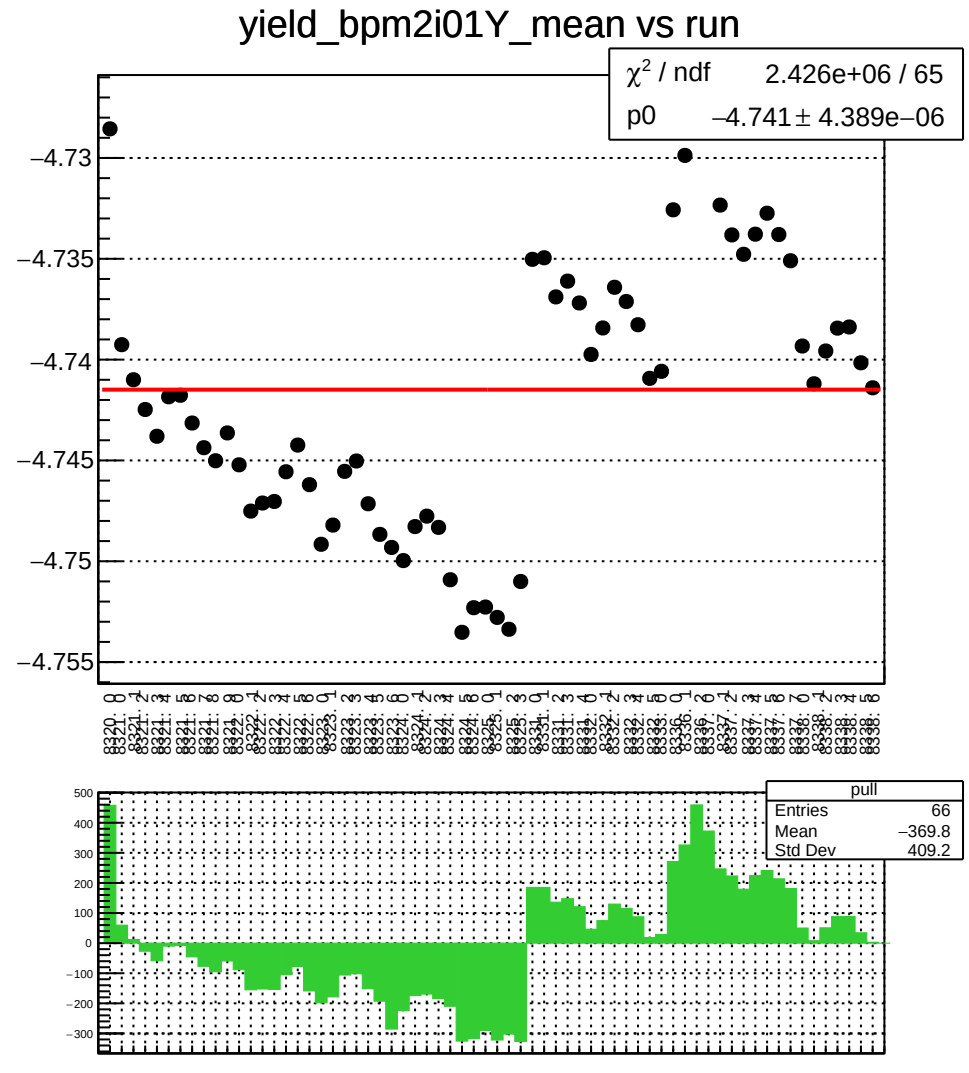

pull1D
Entries 66
Mean 4.566
Std Dev 0

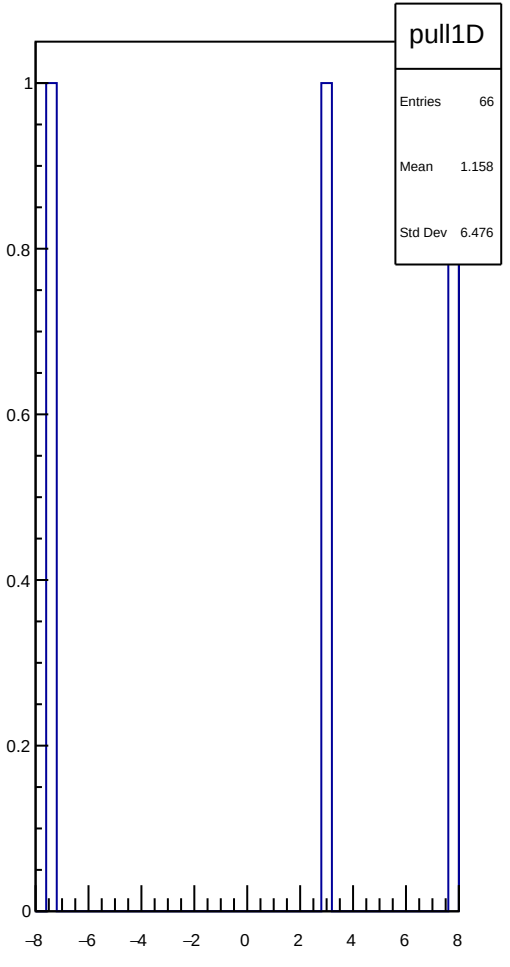

yield_bpm1i06Y_rms vs run
χ² / ndf 5.681e+04 / 65
p0 0.007186 ± 6.466e−06
0.025
0.02
0.015
0.01
0.005

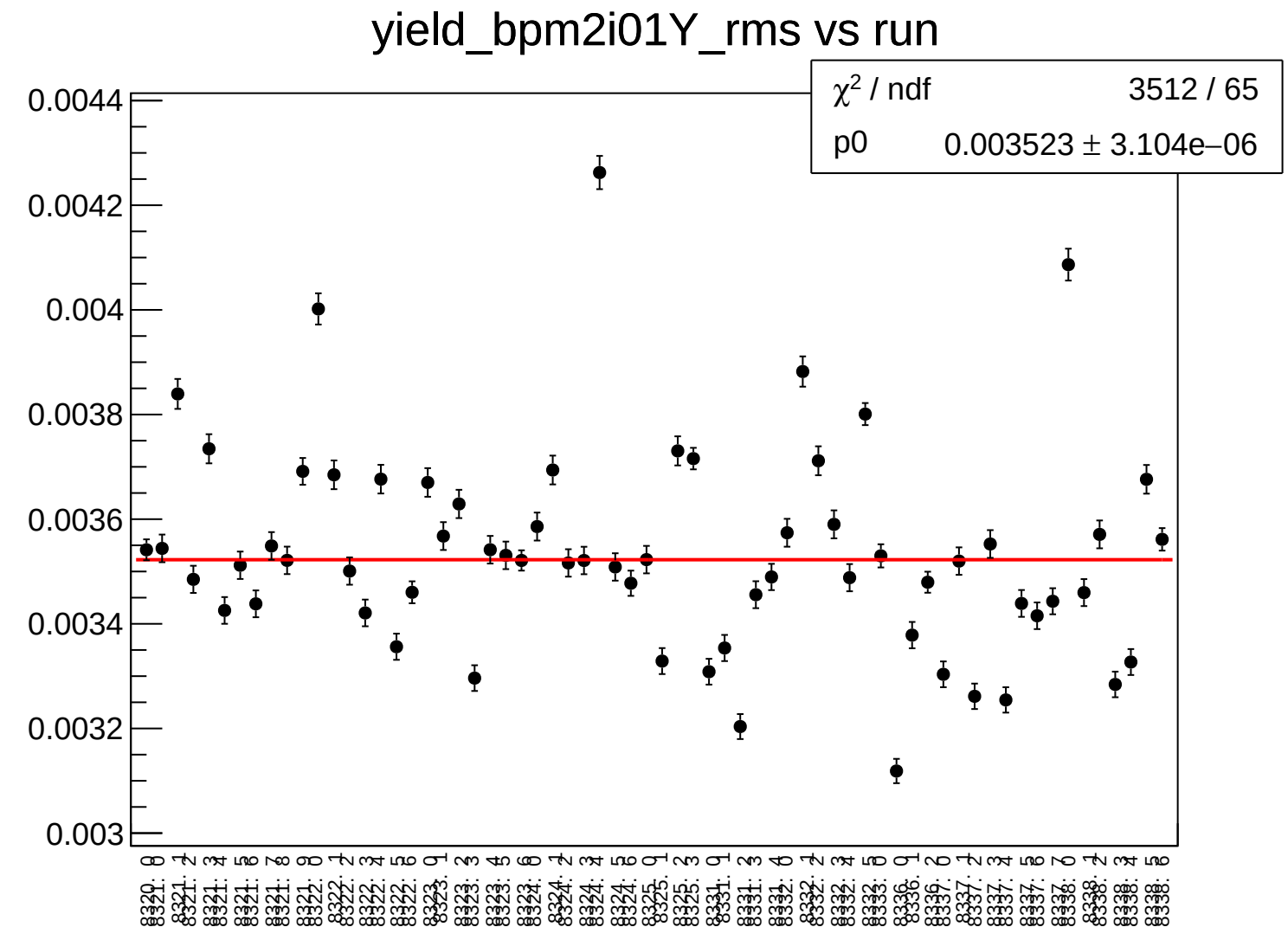

yield_bpm2i01X_mean vs run
χ² / ndf 1.122e+06 / 65
p0 0.8851 ± 5.964e−06
0.895
0.89
0.885
0.88
0.875
0.87
0.865
pull
Entries 66
Mean 247.5
Std Dev 218.9
200
100
0
−100
−200
−300
−400

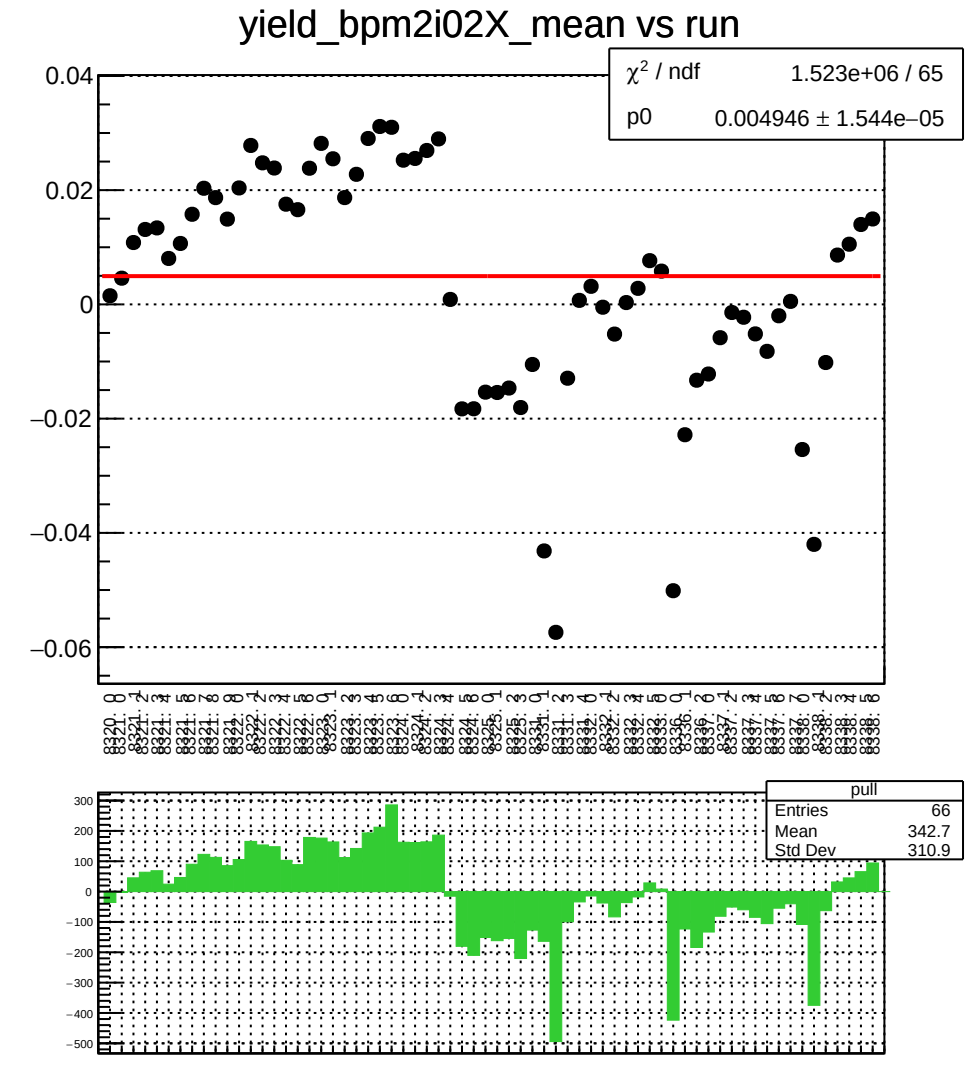

pull1D
Entries 66
Mean −2.623
Std Dev 4.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

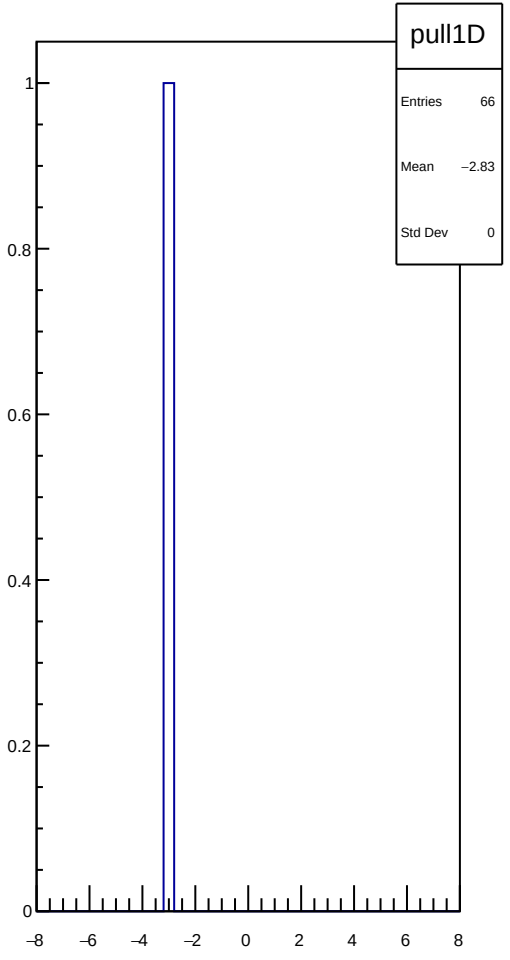

yield_bpm2i01X_rms vs run
χ² / ndf 2.563e+04 / 65
p0 0.004745 ± 4.217e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

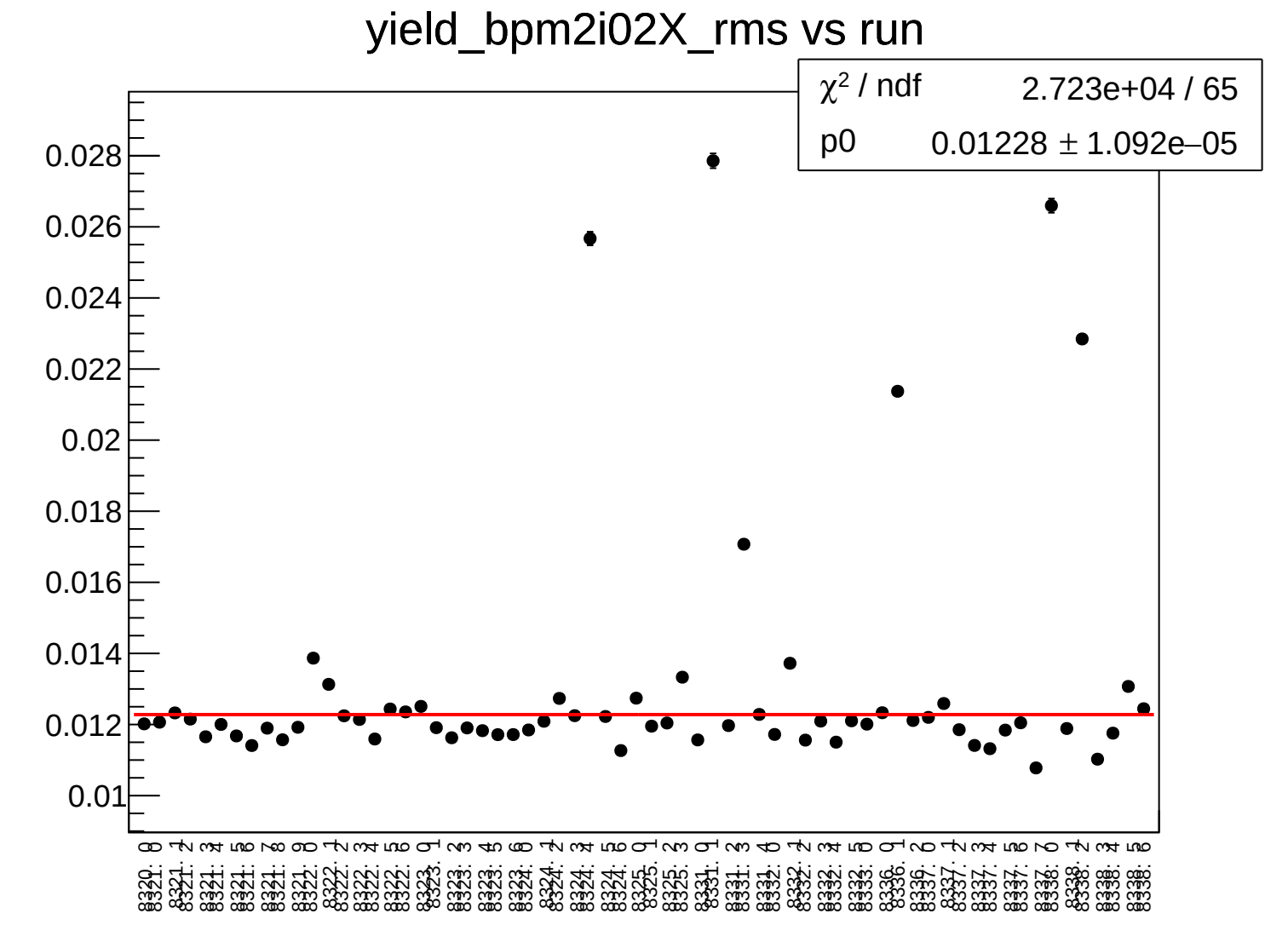

yield_bpm2i01Y_mean vs run
χ² / ndf 2.426e+06 / 65
p0 −4.741 ± 4.389e−06
−4.73
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 66
Mean −369.8
Std Dev 409.2
500
400
300
200
100
0
−100
−200
−300

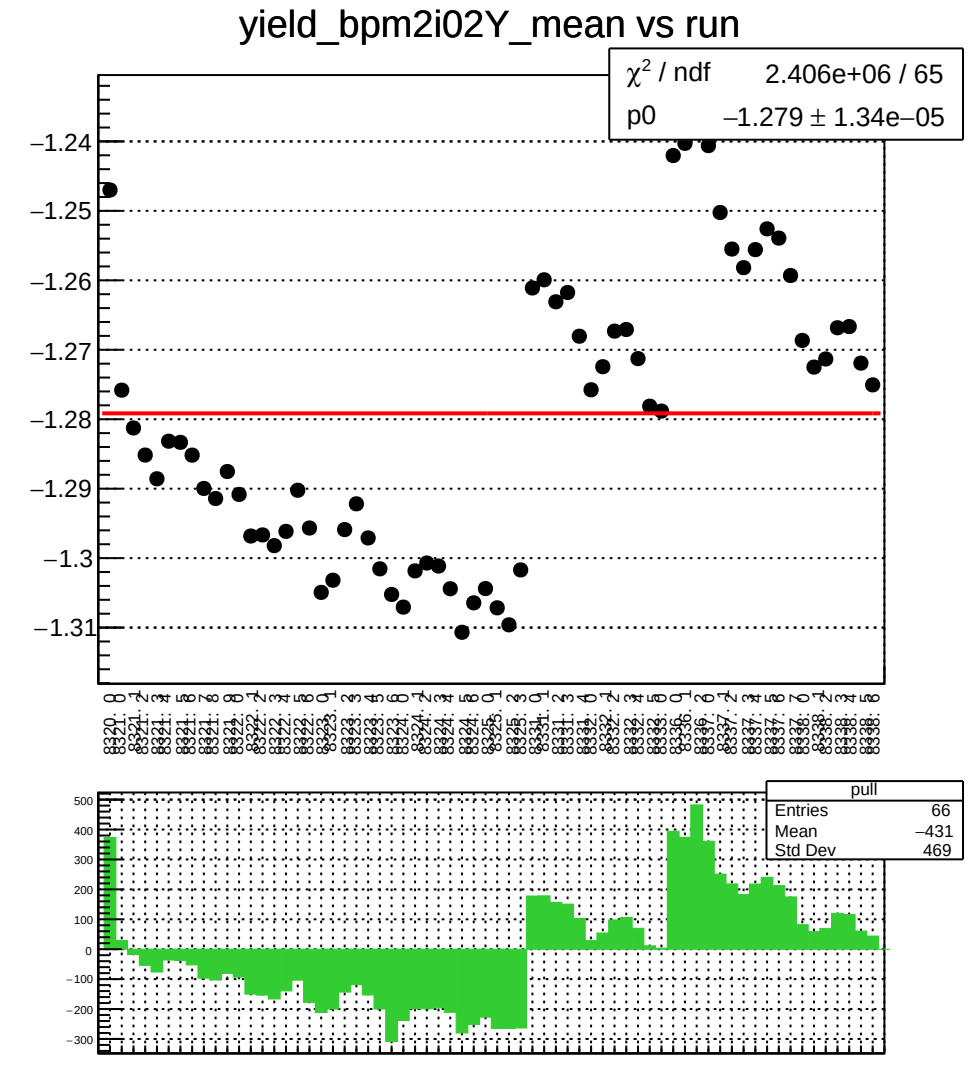

pull1D
Entries 66
Mean 1.158
Std Dev 6.476
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

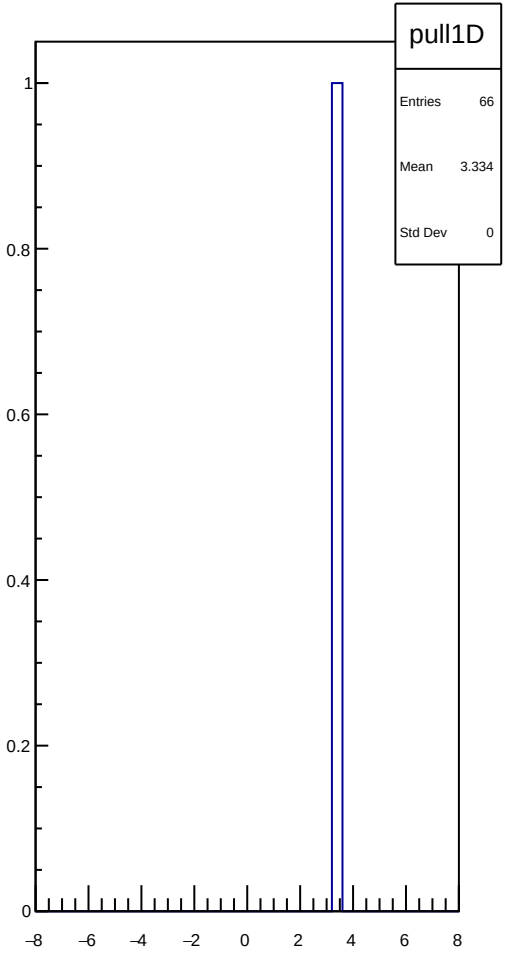

yield_bpm2i01Y_rms vs run
χ² / ndf 3512 / 65
p0 0.003523 ± 3.104e−06
0.0044
0.0042
0.004
0.0038
0.0036
0.0034
0.0032
0.003

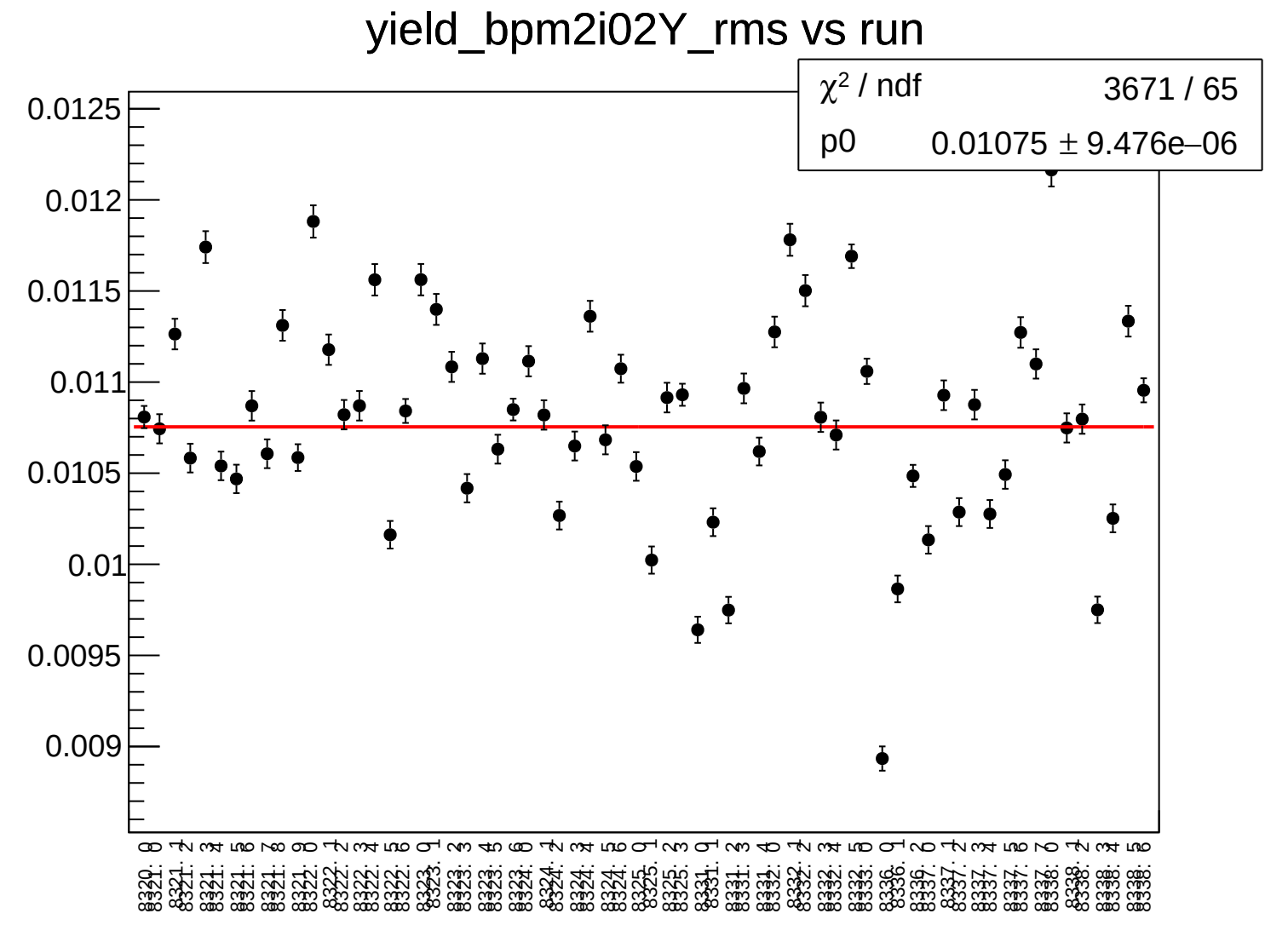

yield_bpm2i02X_mean vs run
χ² / ndf 1.523e+06 / 65
p0 0.004946 ± 1.544e−05
pull
Entries 66
Mean 342.7
Std Dev 310.9

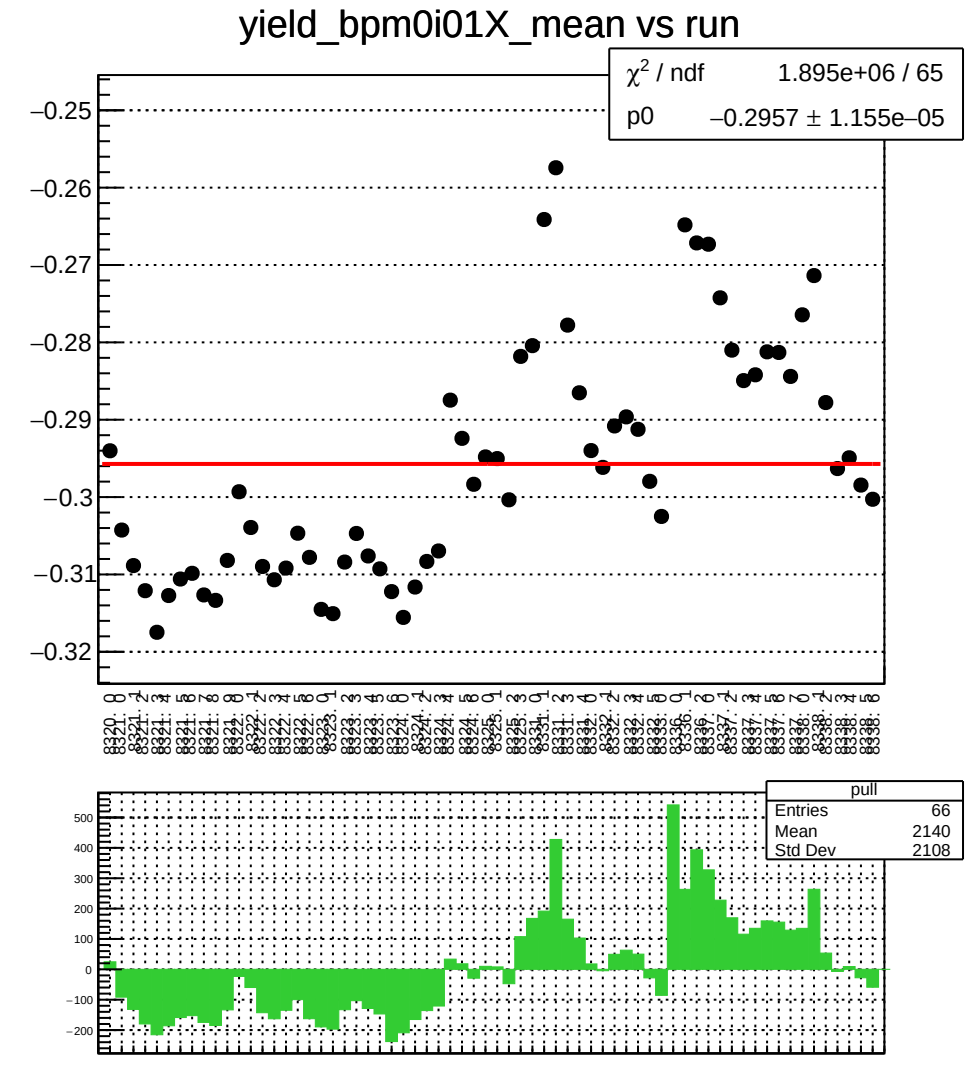

pull1D
Entries 66
Mean −2.83
Std Dev 0

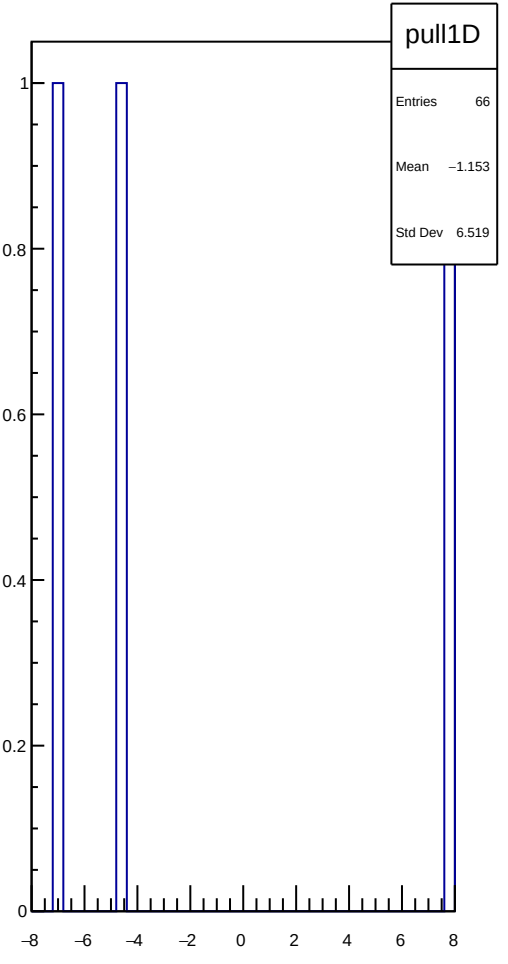

yield_bpm2i02X_rms vs run
χ² / ndf 2.723e+04 / 65
p0 0.01228 ± 1.092e−05
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

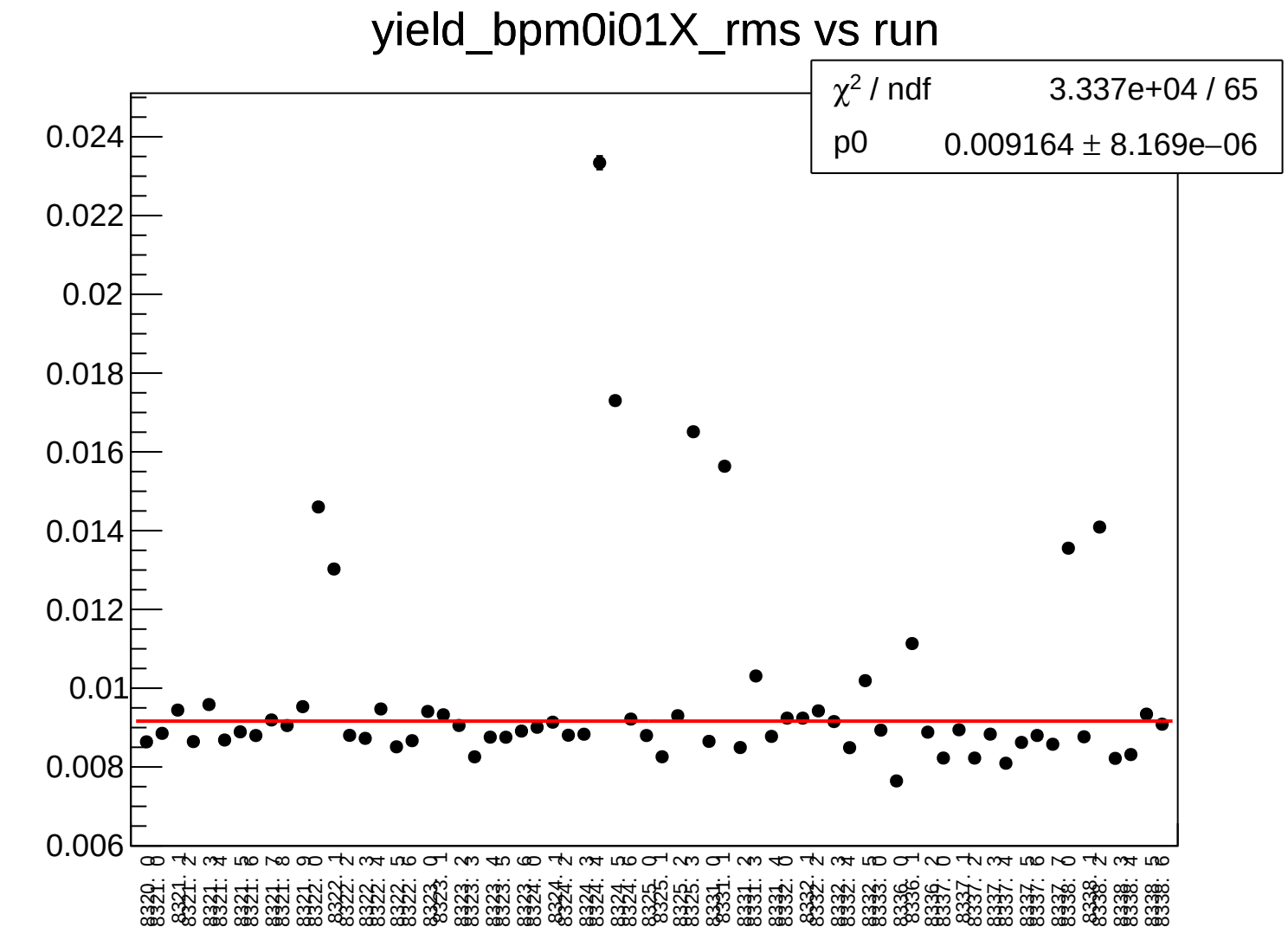

yield_bpm2i02Y_mean vs run
χ² / ndf 2.406e+06 / 65
p0 −1.279 ± 1.34e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
pull
Entries 66
Mean −431
Std Dev 469
500
400
300
200
100
0
−100
−200
−300

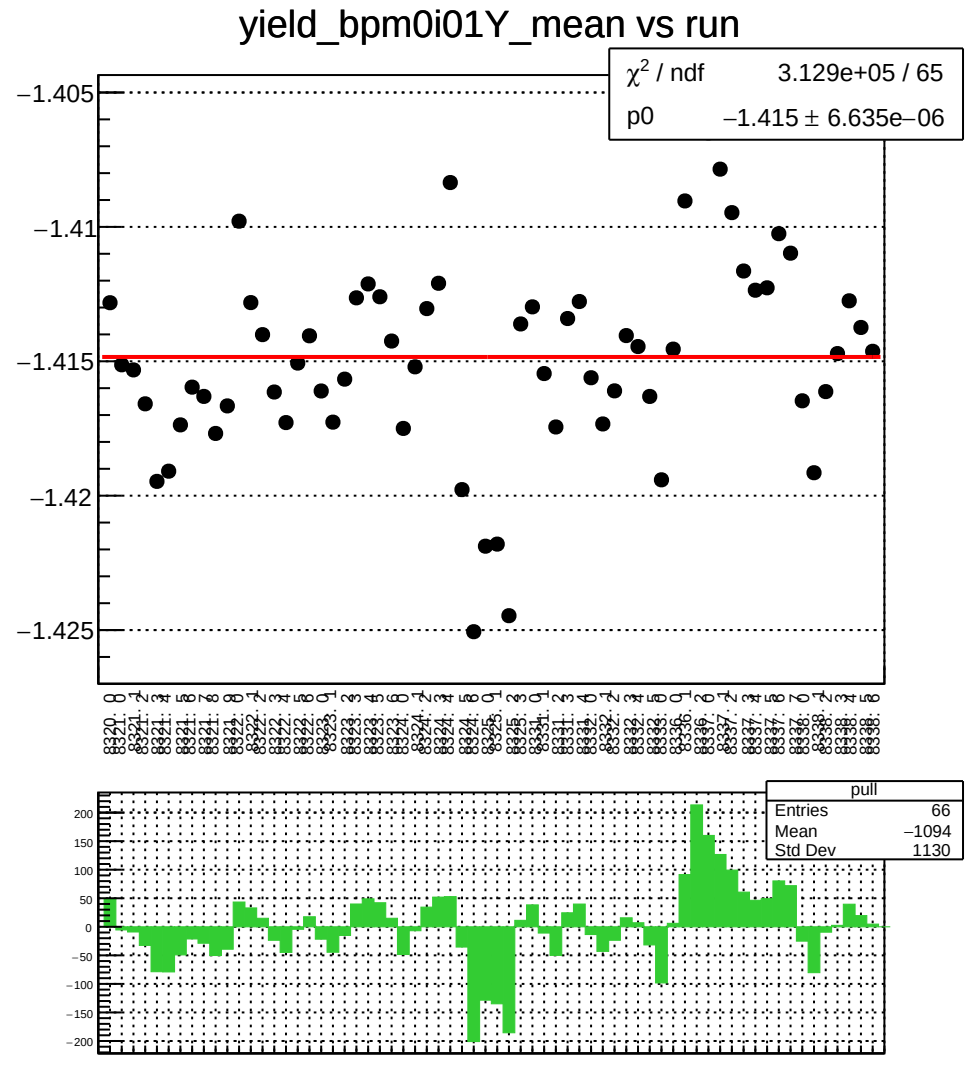

pull1D
Entries 66
Mean 3.334
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

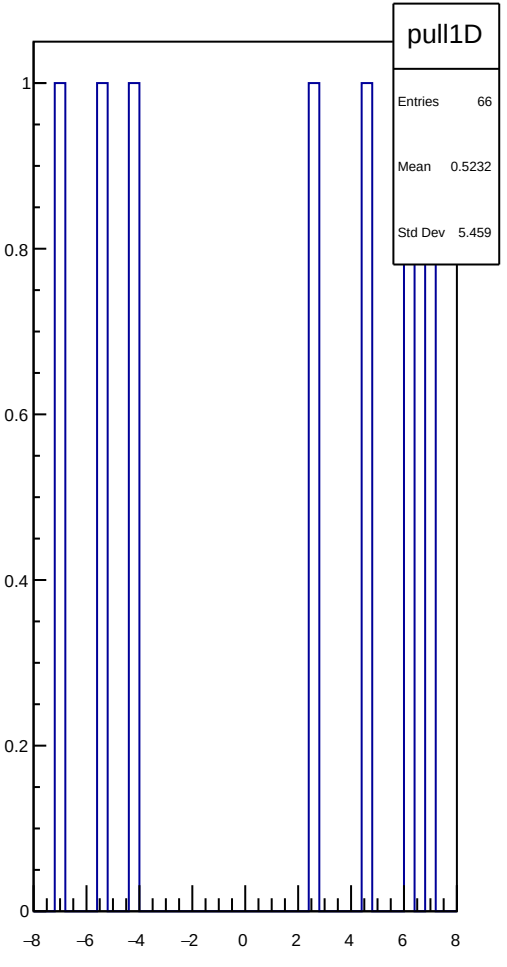

yield_bpm2i02Y_rms vs run
χ² / ndf 3671 / 65
p0 0.01075 ± 9.476e–06
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095
0.009

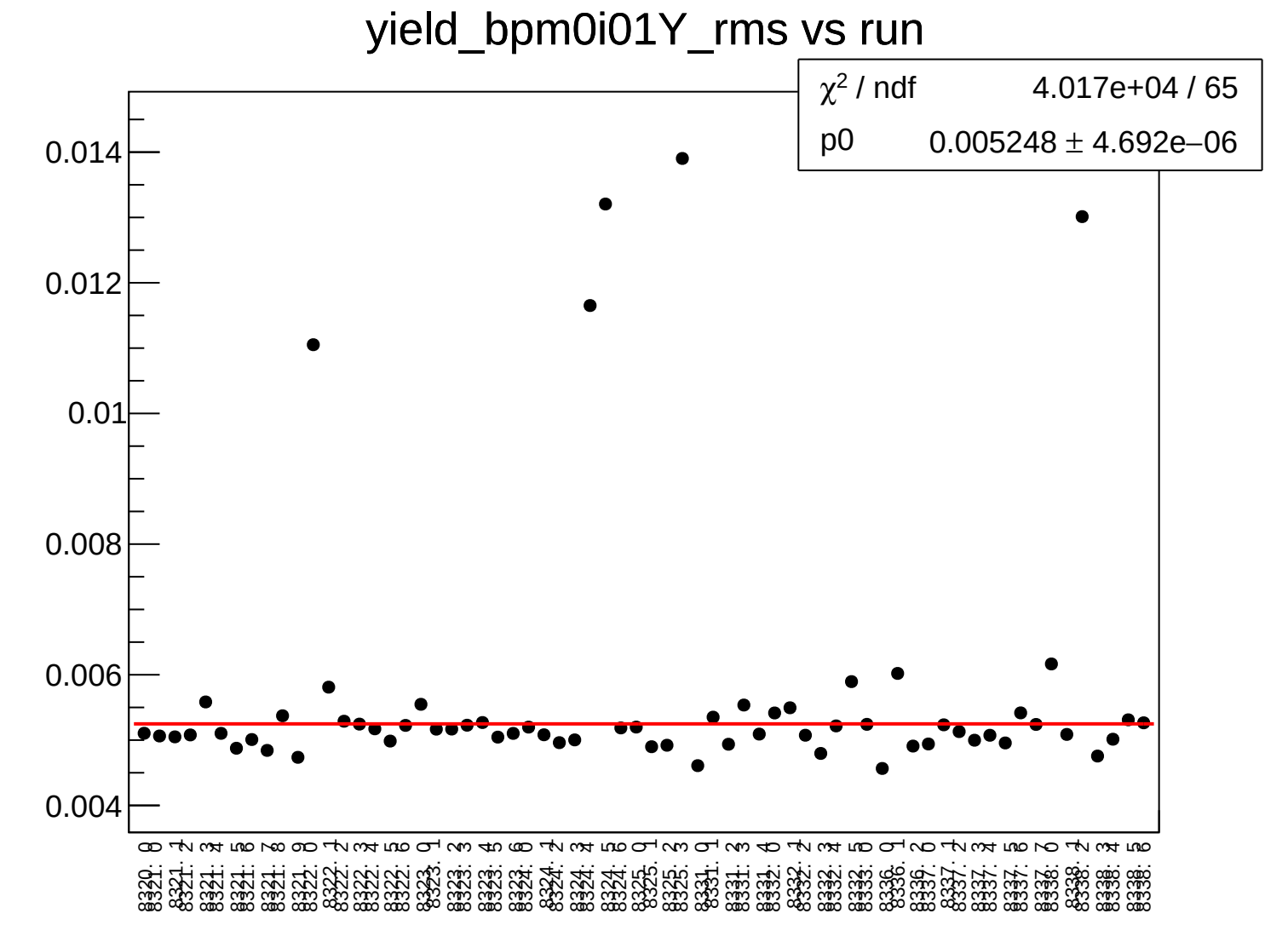

yield_bpm0i01X_mean vs run
χ² / ndf 1.895e+06 / 65
p0 −0.2957 ± 1.155e−05
−0.25
−0.26
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 66
Mean 2140
Std Dev 2108
500
400
300
200
100
0
−100
−200

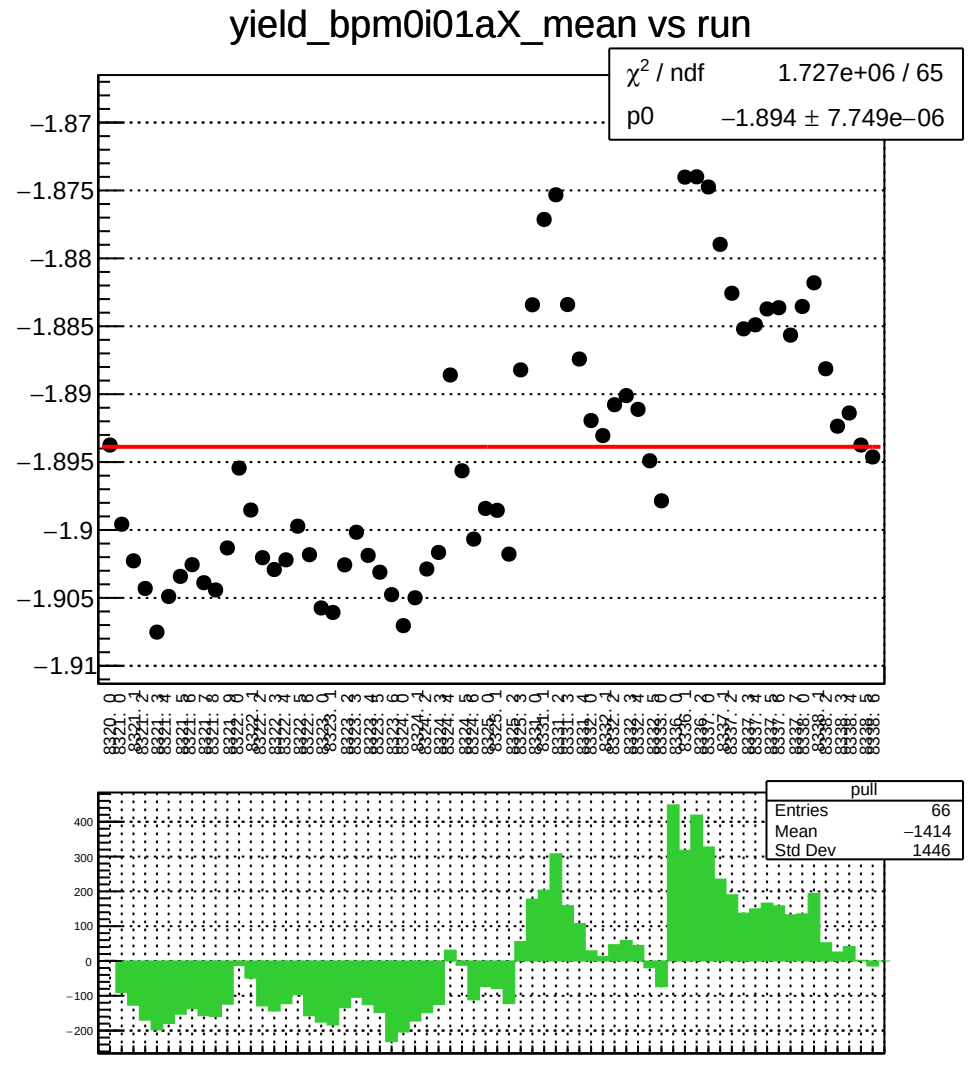

pull1D
Entries 66
Mean −1.153
Std Dev 6.519
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

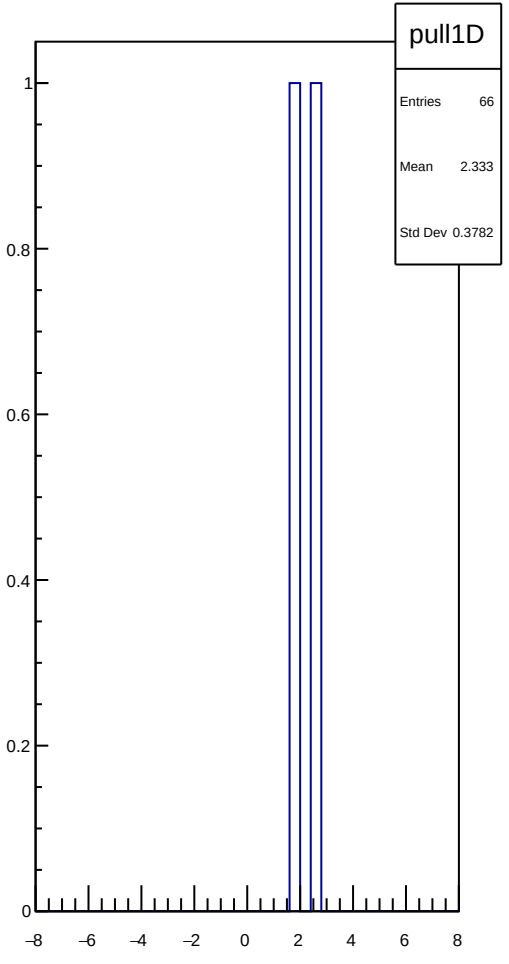

yield_bpm0i01X_rms vs run
χ² / ndf 3.337e+04 / 65
p0 0.009164 ± 8.169e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

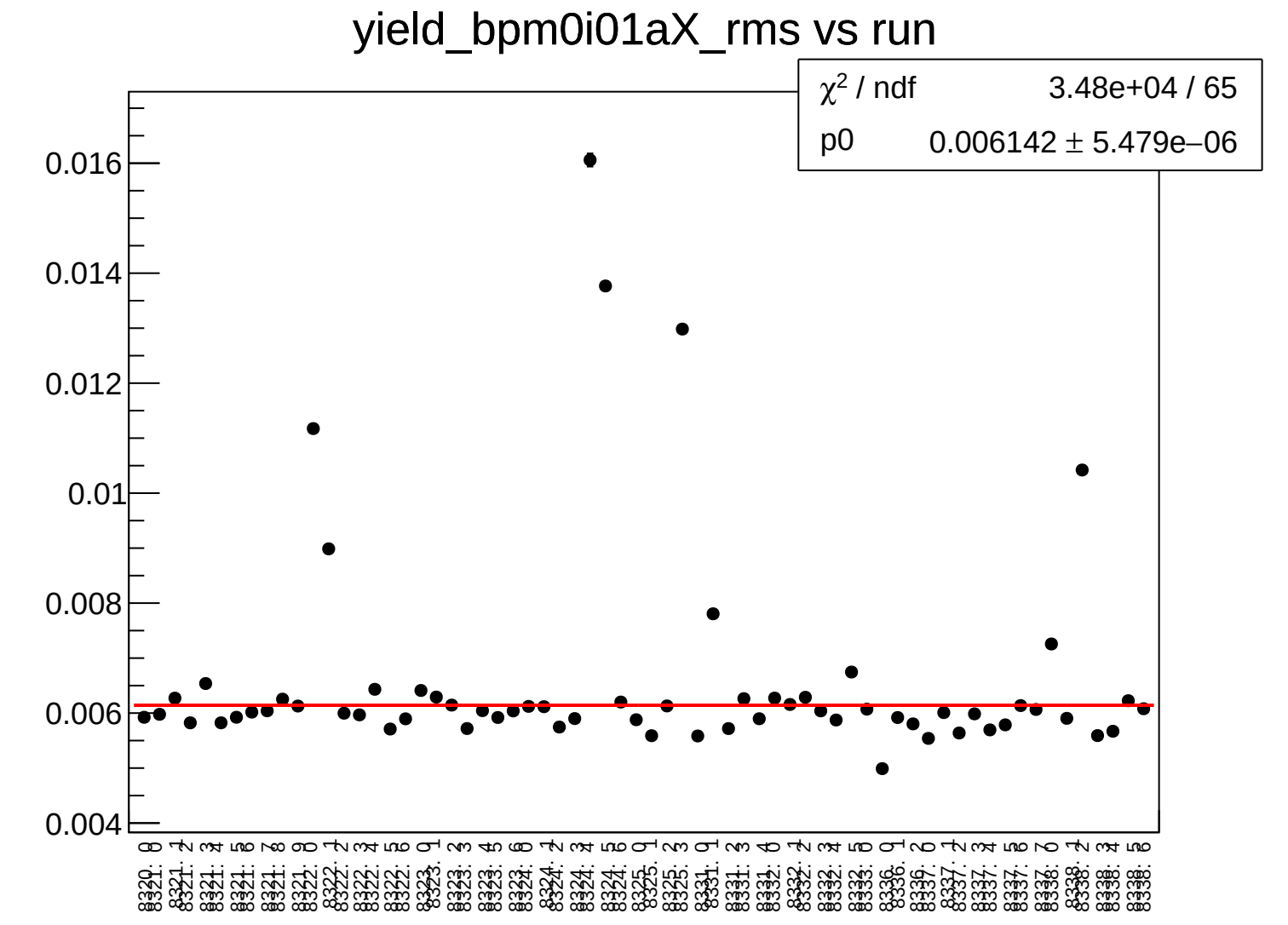

yield_bpm0i01Y_mean vs run
χ² / ndf 3.129e+05 / 65
p0 −1.415 ± 6.635e−06
−1.405
−1.41
−1.415
−1.42
−1.425
pull
Entries 66
Mean −1094
Std Dev 1130
200
150
100
50
0
−50
−100
−150
−200

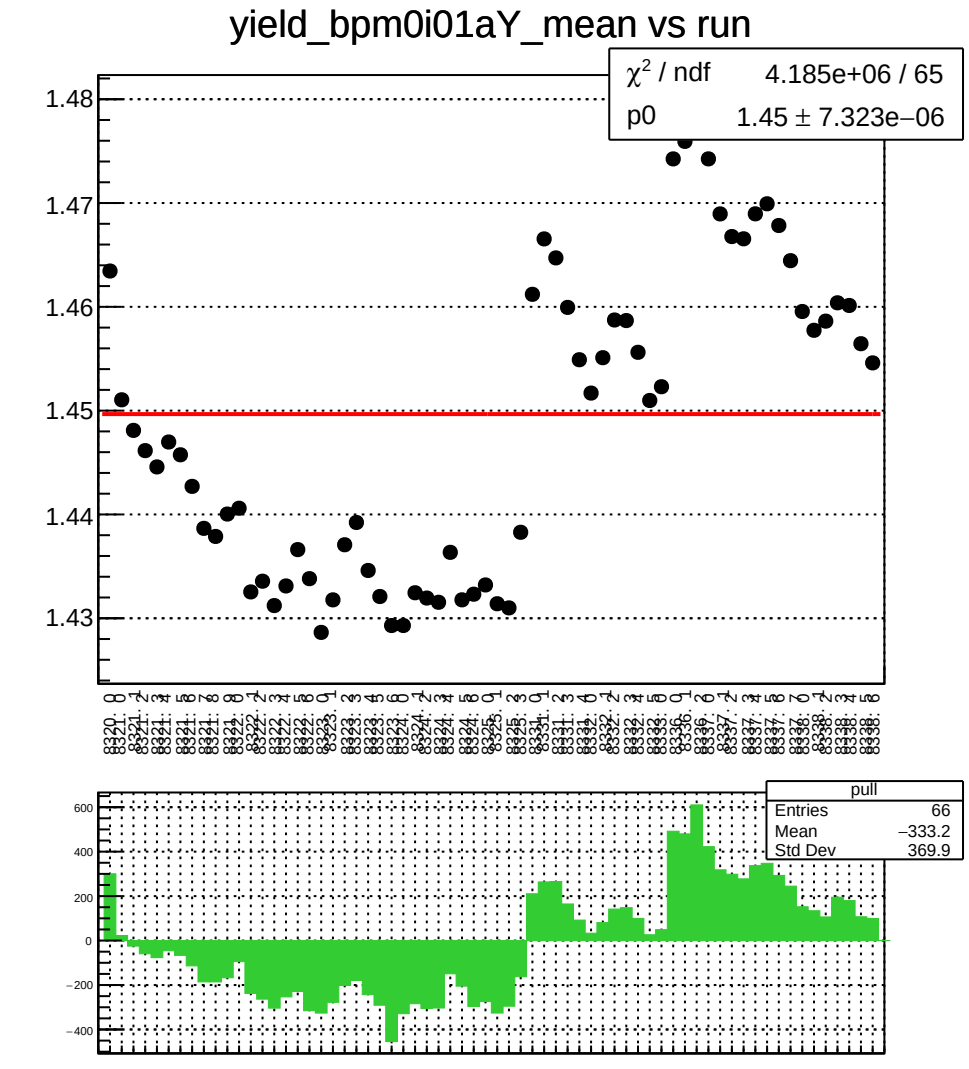

pull1D
Entries 66
Mean 0.5232
Std Dev 5.459
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

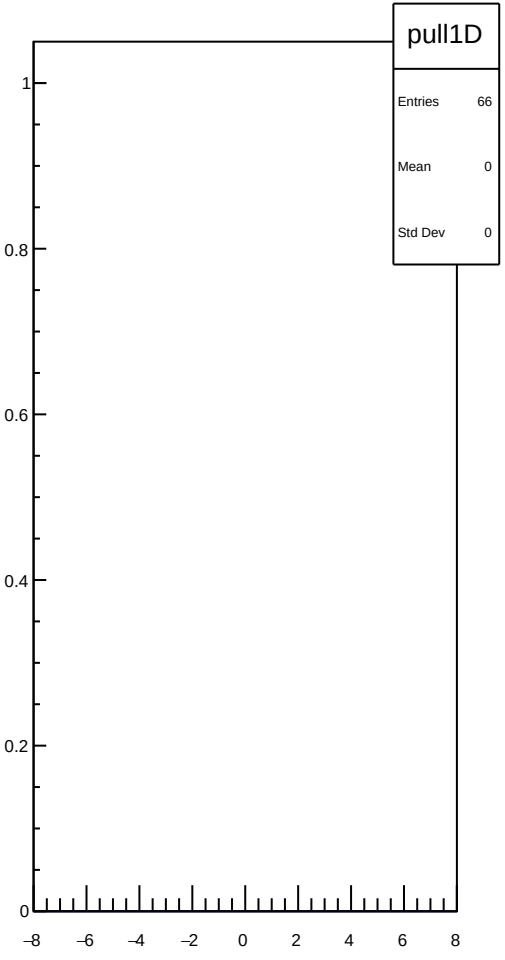

yield_bpm0i01Y_rms vs run
χ² / ndf 4.017e+04 / 65
p0 0.005248 ± 4.692e−06
0.014
0.012
0.01
0.008
0.006
0.004

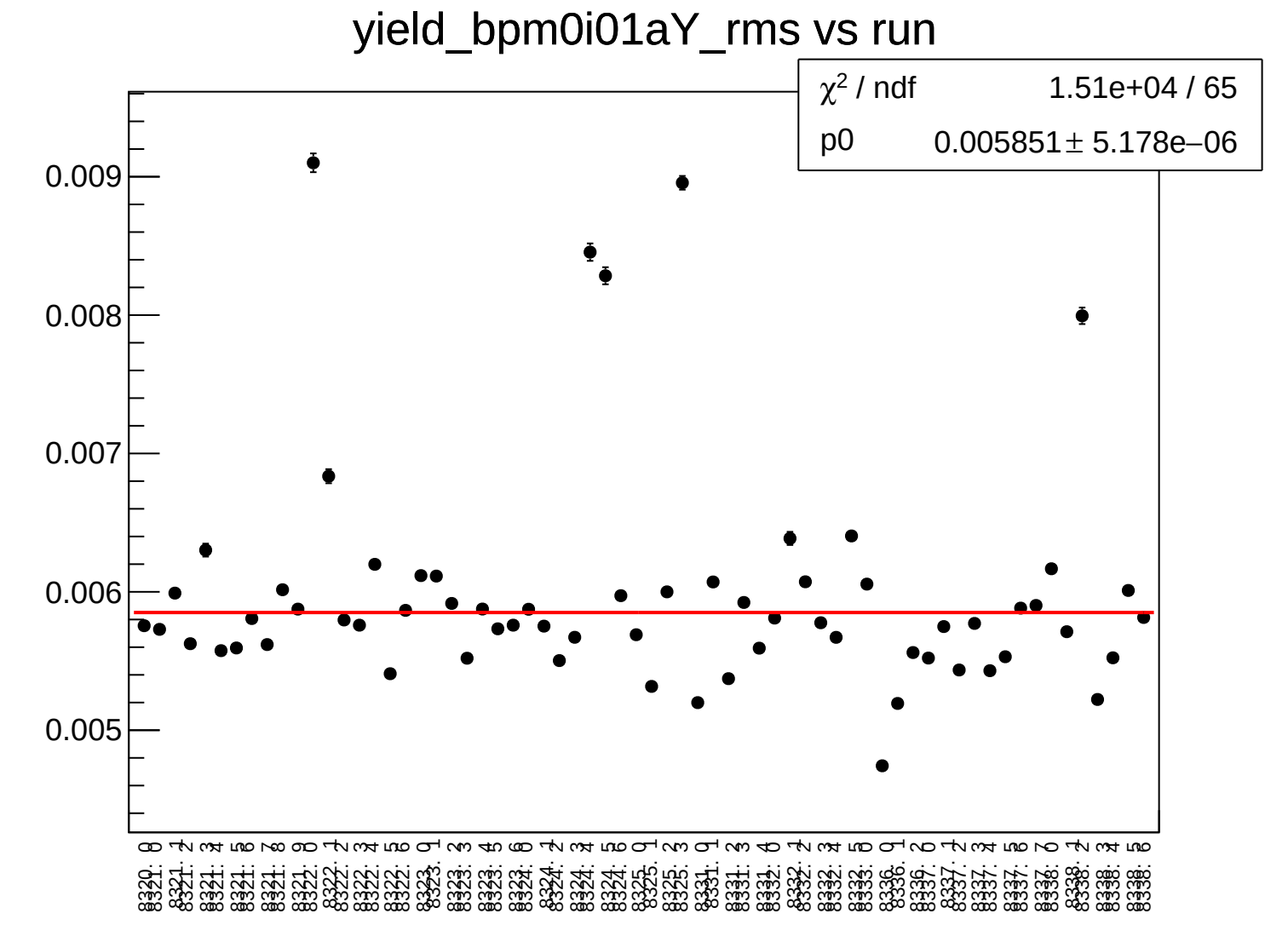

yield_bpm0i01aX_mean vs run
χ² / ndf 1.727e+06 / 65
p0 −1.894 ± 7.749e−06
−1.87
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
−1.91
pull
Entries 66
Mean −1414
Std Dev 1446
400
300
200
100
0
−100
−200

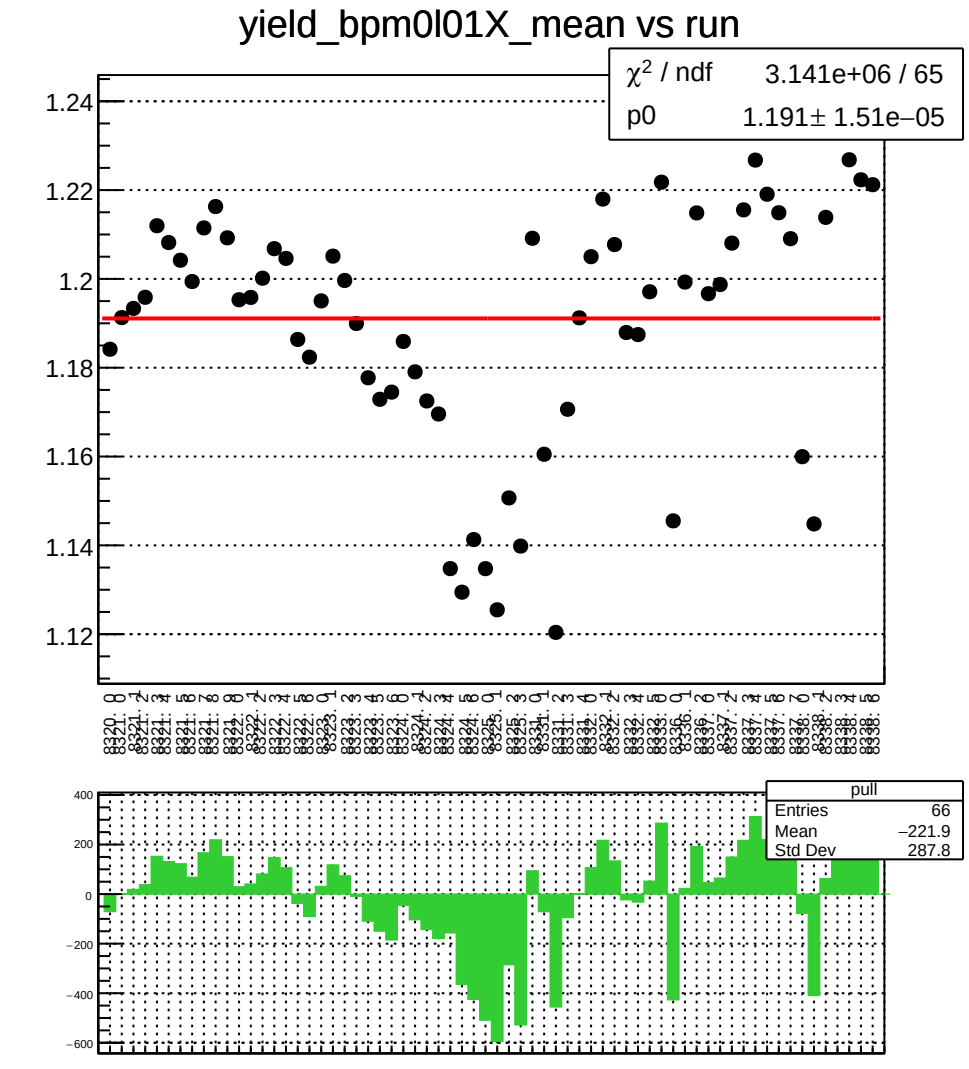

pull1D
Entries 66
Mean 2.333
Std Dev 0.3782
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

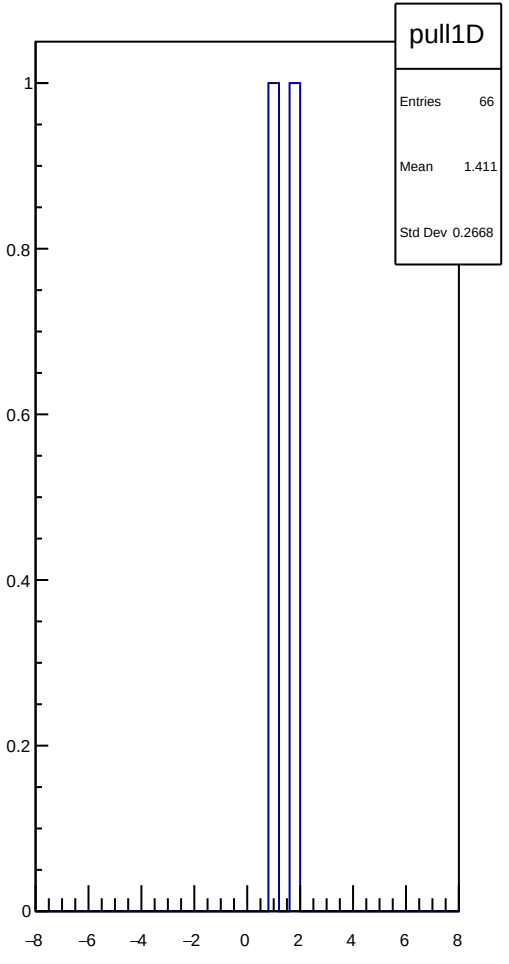

yield_bpm0i01aX_rms vs run
χ² / ndf 3.48e+04 / 65
p0 0.006142 ± 5.479e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

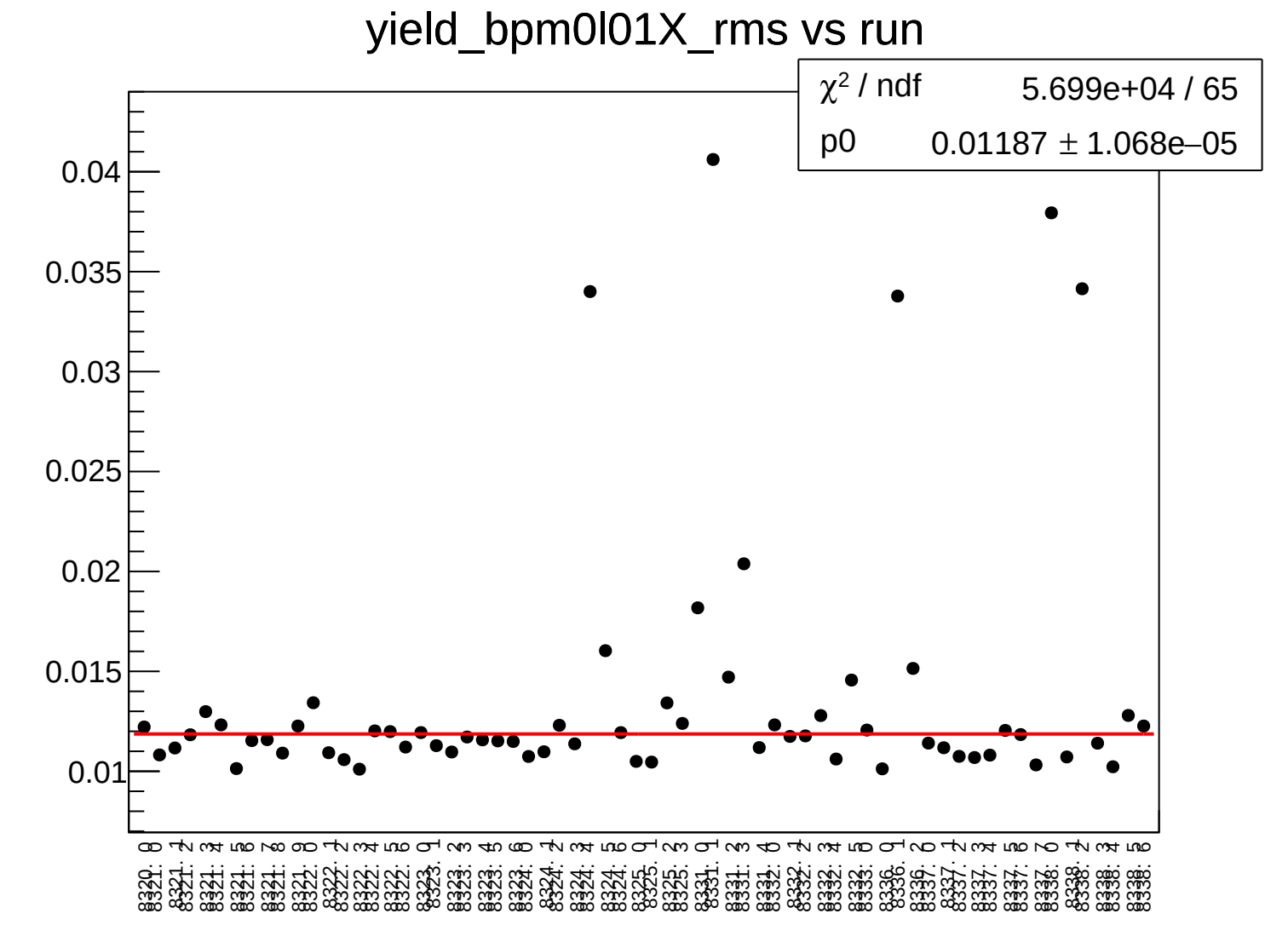

yield_bpm0i01aY_mean vs run
χ² / ndf 4.185e+06 / 65
p0 1.45 ± 7.323e−06
1.48
1.47
1.46
1.45
1.44
1.43
pull
Entries 66
Mean −333.2
Std Dev 369.9
600
400
200
0
−200
−400

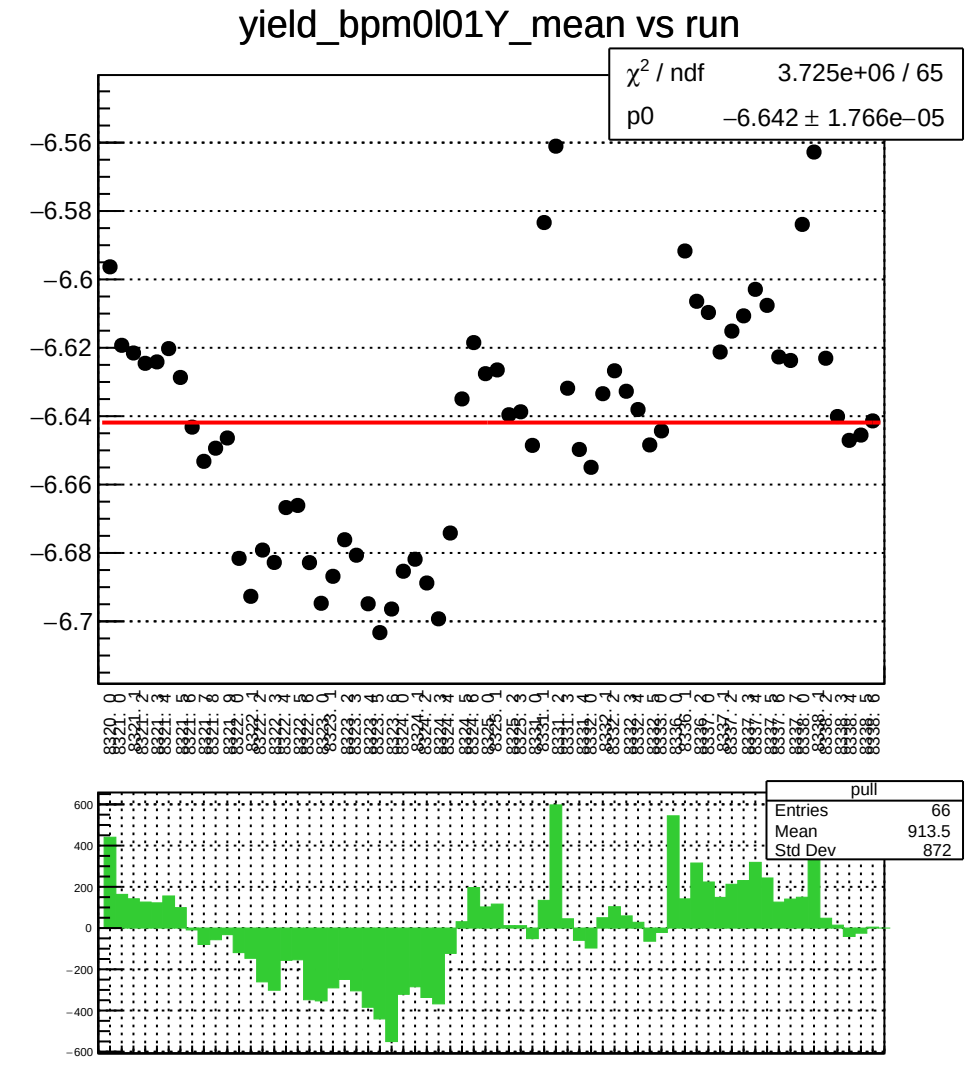

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

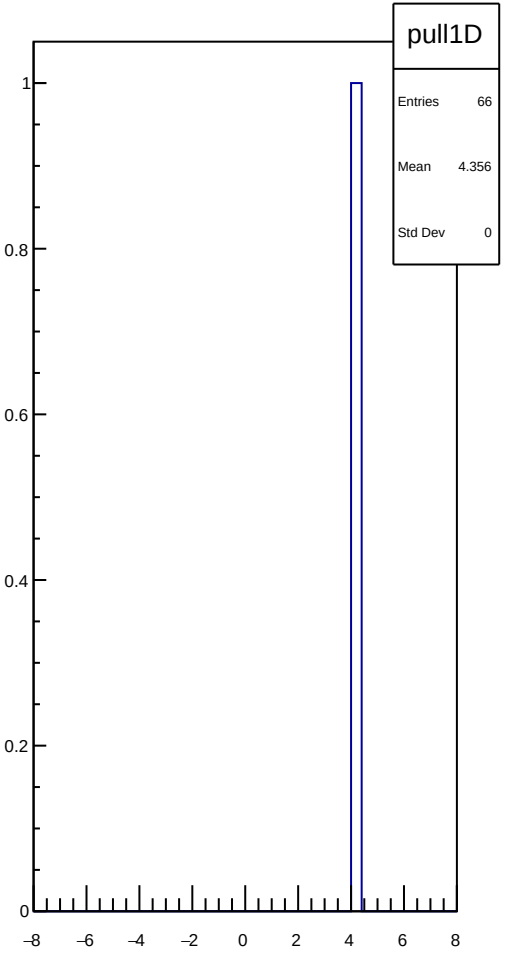

yield_bpm0i01aY_rms vs run
χ² / ndf 1.51e+04 / 65
p0 0.005851 ± 5.178e−06
0.009
0.008
0.007
0.006
0.005

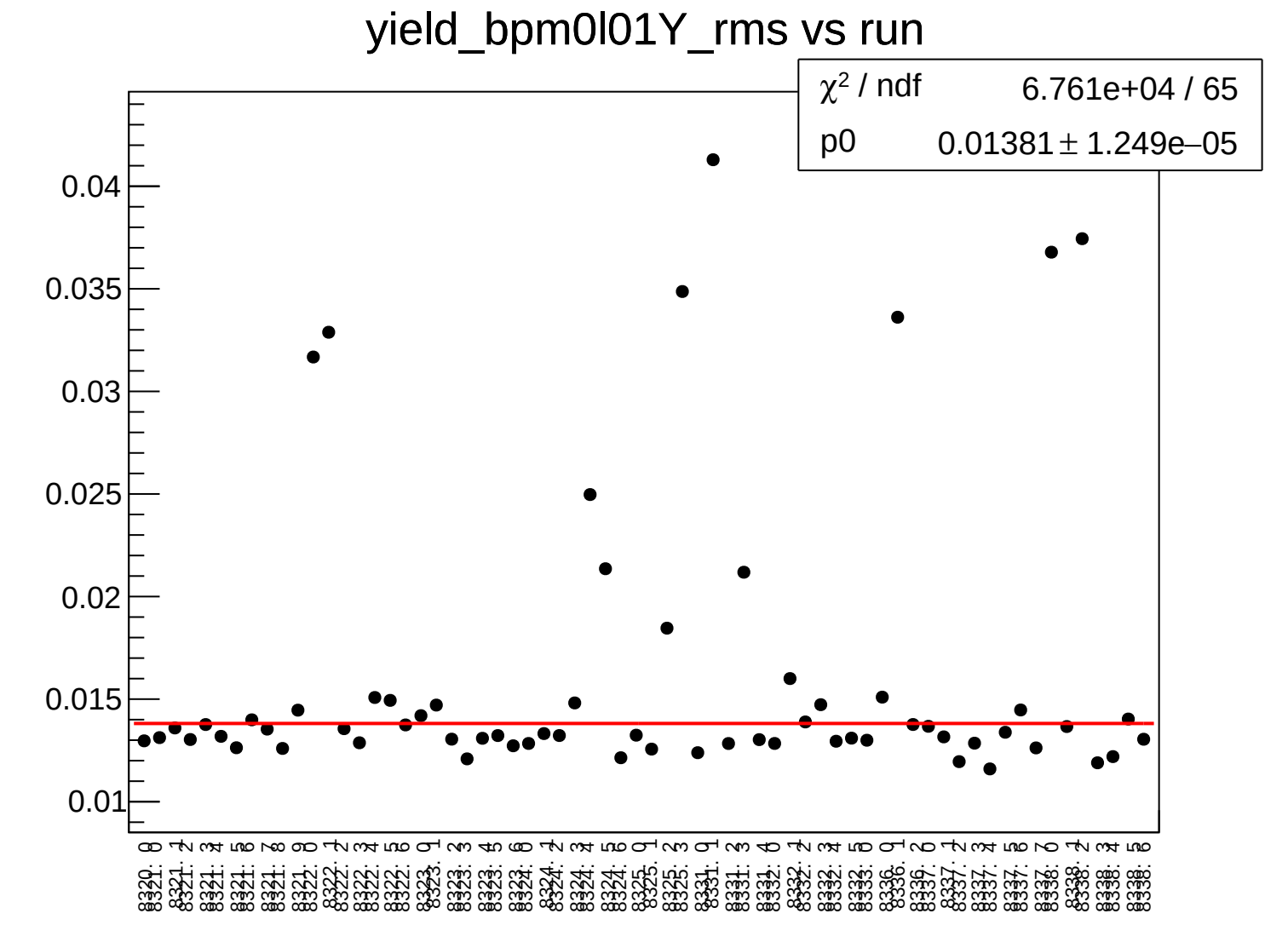

yield_bpm0l01X_mean vs run
χ² / ndf 3.141e+06 / 65
p0 1.191± 1.51e−05
1.24
1.22
1.2
1.18
1.16
1.14
1.12
pull
Entries 66
Mean −221.9
Std Dev 287.8
400
200
0
−200
−400
−600

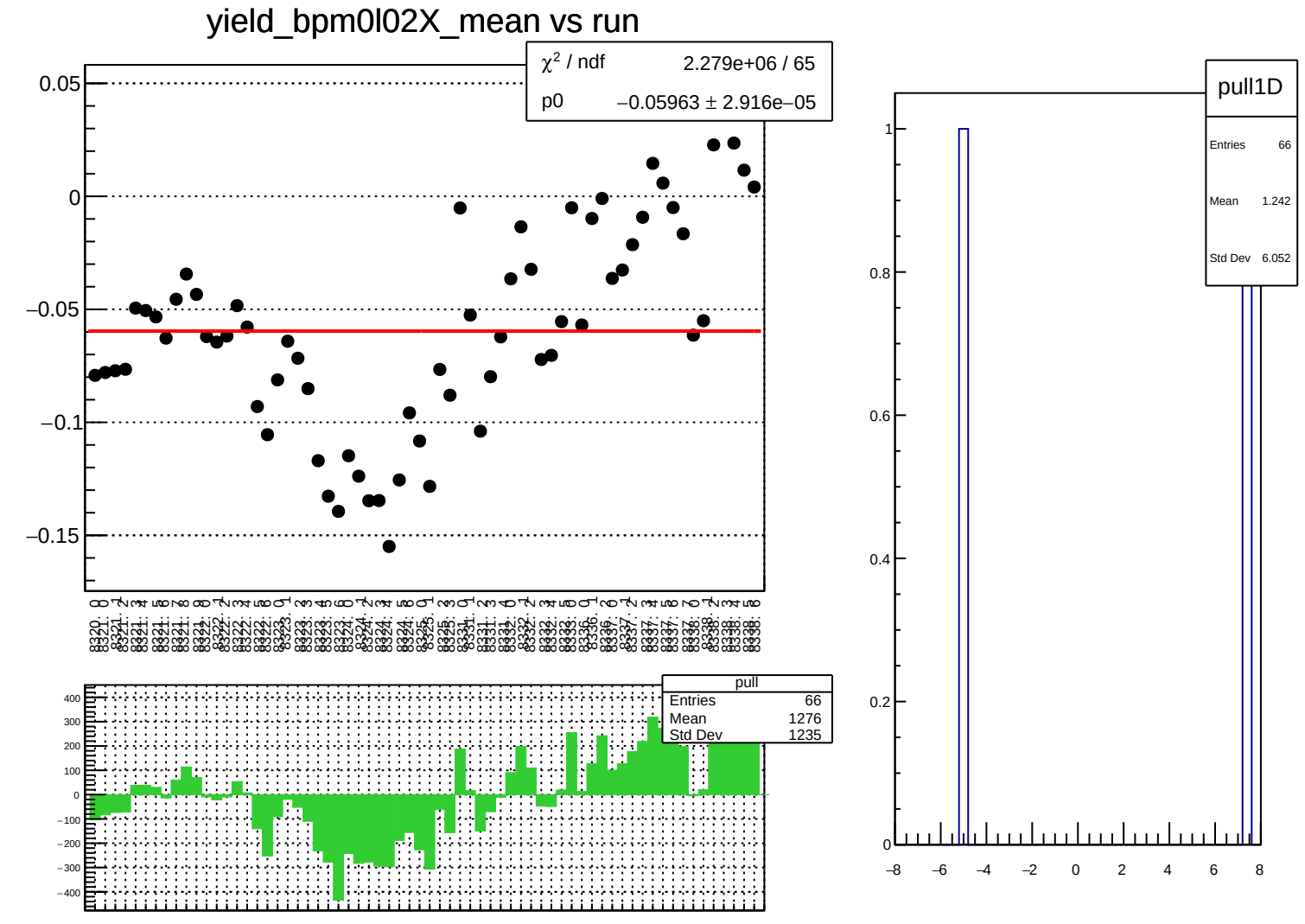

pull1D
Entries 66
Mean 1.411
Std Dev 0.2668
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

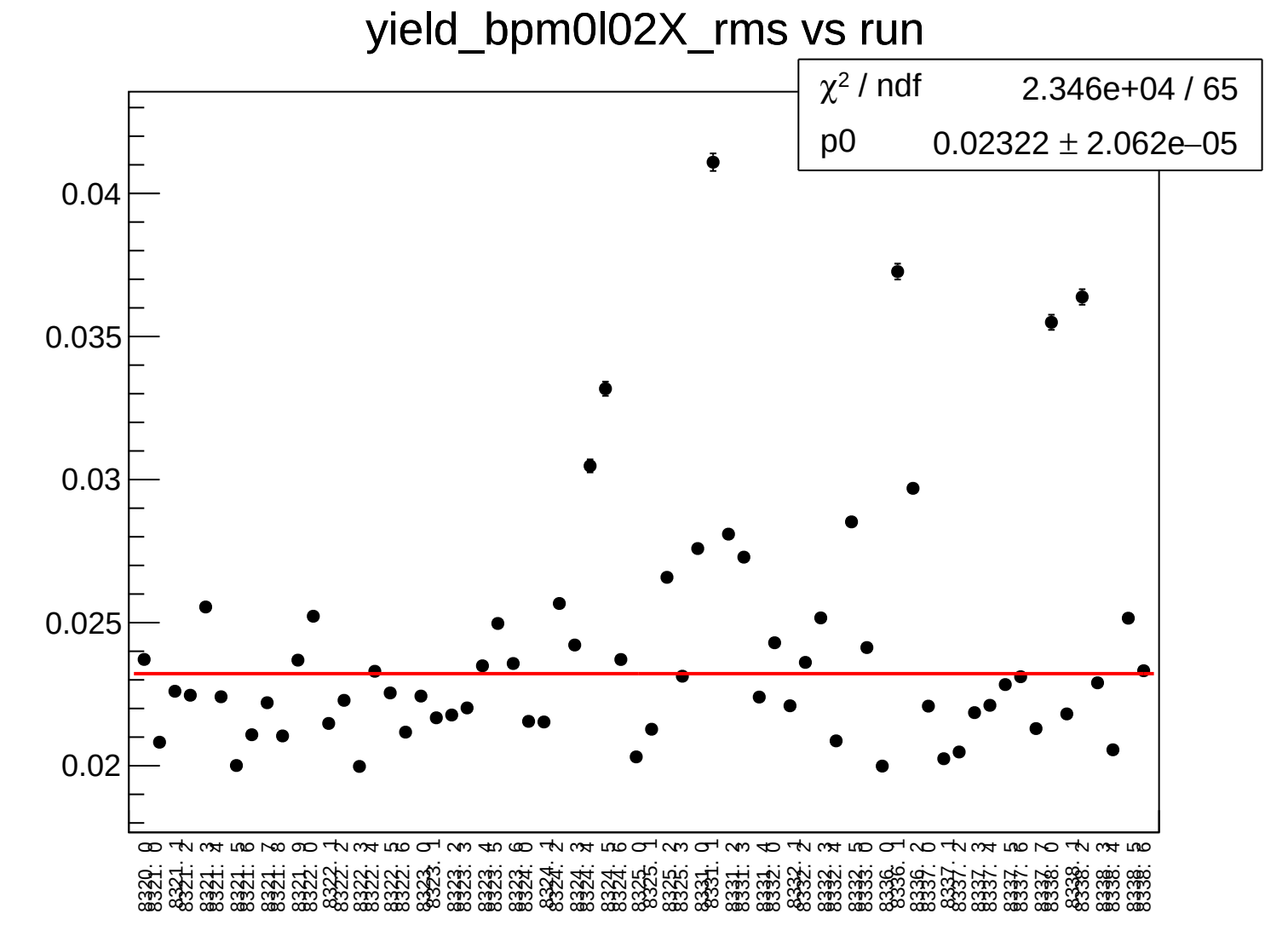

yield_bpm0l01X_rms vs run
χ² / ndf 5.699e+04 / 65
p0 0.01187 ± 1.068e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

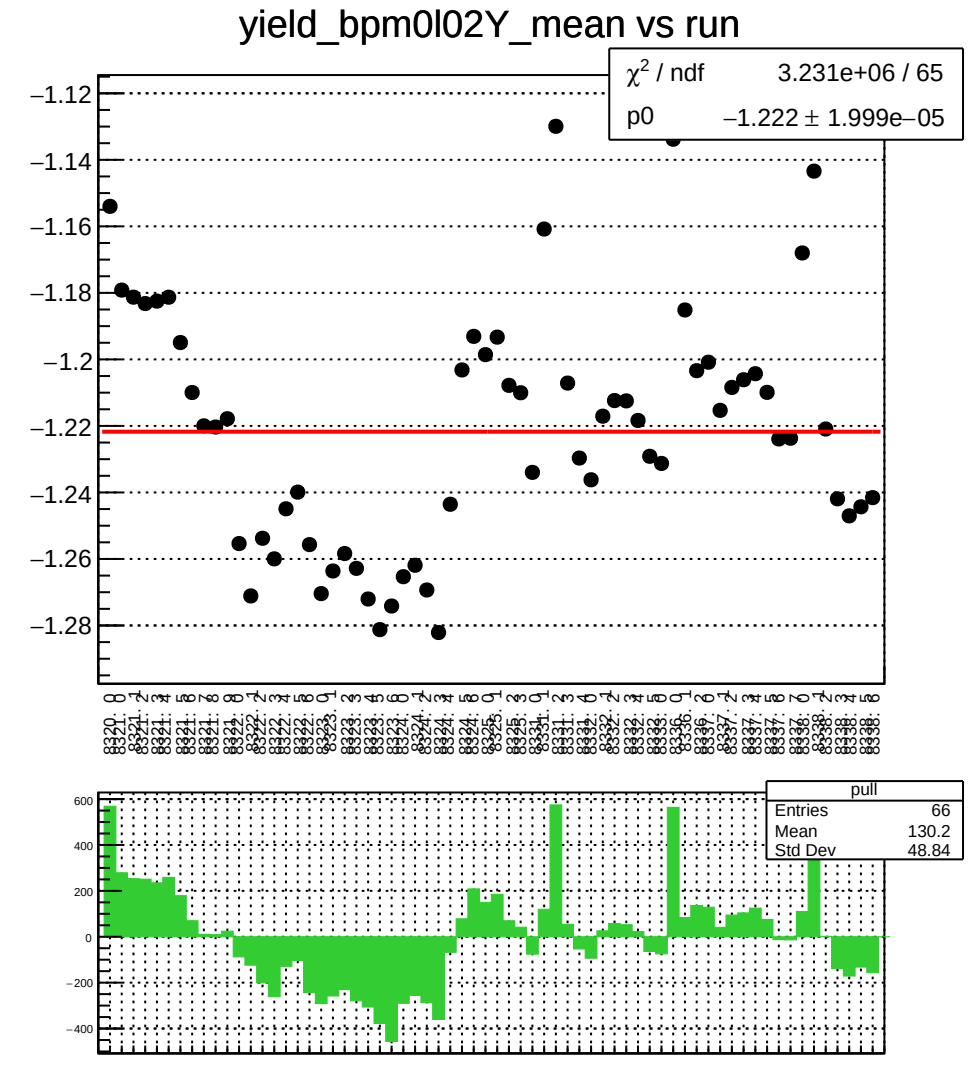

yield_bpm0l01Y_mean vs run
χ² / ndf 3.725e+06 / 65
p0 −6.642 ± 1.766e−05
−6.56
−6.58
−6.6
−6.62
−6.64
−6.66
−6.68
−6.7
pull
Entries 66
Mean 913.5
Std Dev 872
600
400
200
0
−200
−400
−600

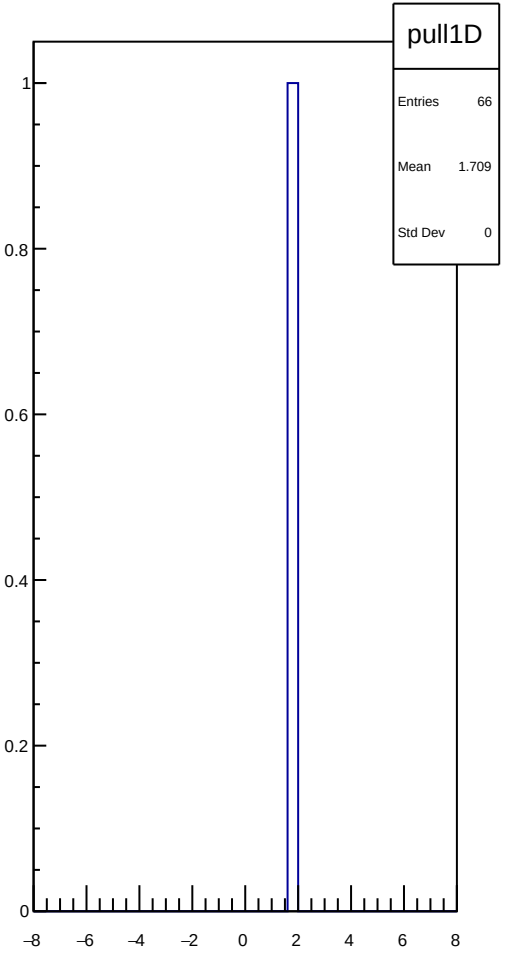

pull1D
Entries 66
Mean 4.356
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

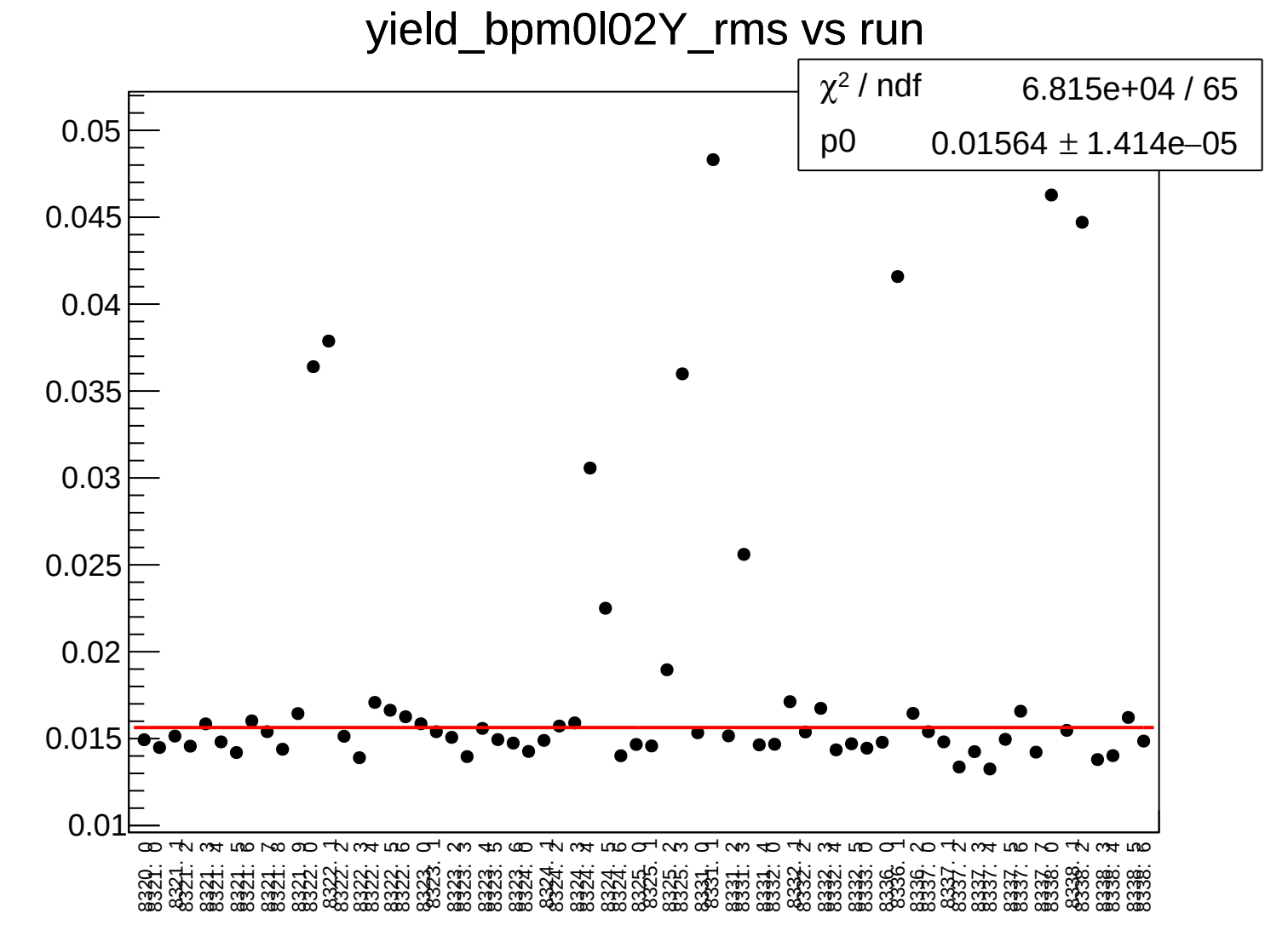

yield_bpm0l01Y_rms vs run
χ² / ndf 6.761e+04 / 65
p0 0.01381 ± 1.249e–05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

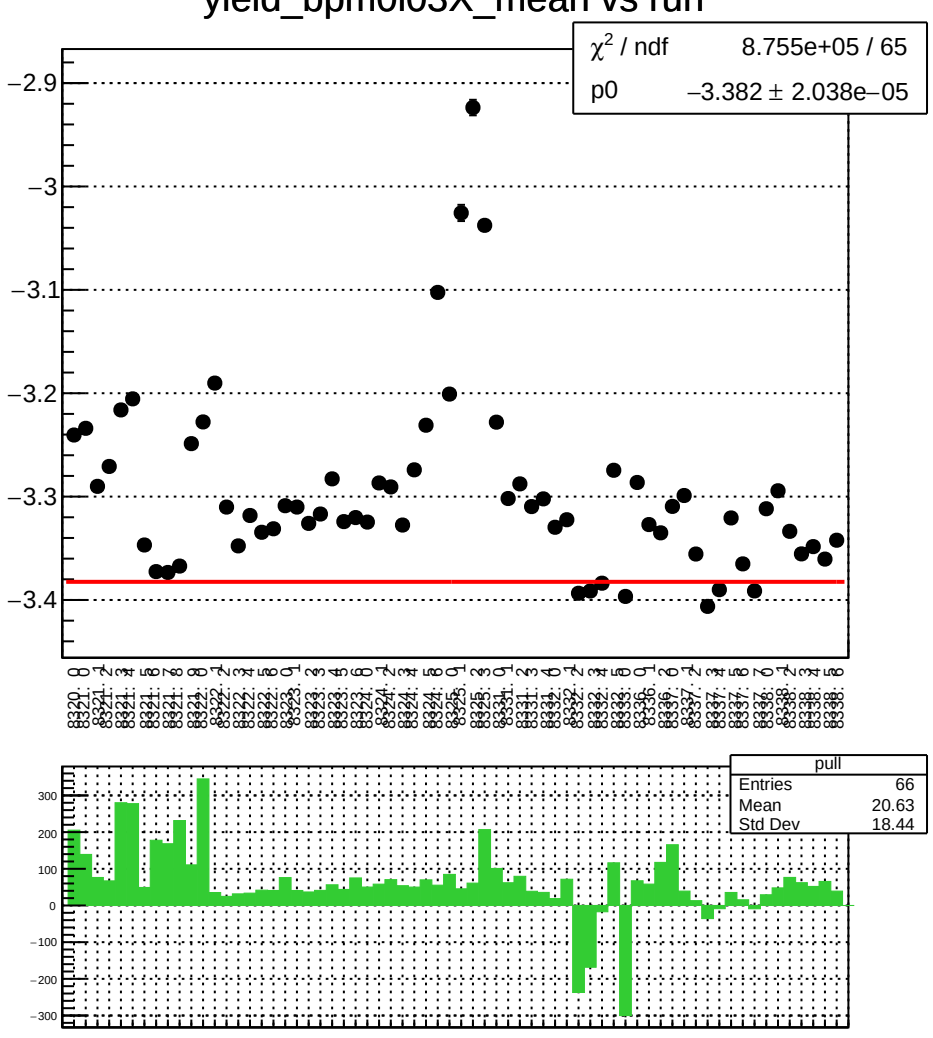

yield_bpm0l02X_mean vs run
χ² / ndf 2.279e+06 / 65
p0 −0.05963 ± 2.916e−05
0.05
0
−0.05
−0.1
−0.15
pull
Entries 66
Mean 1276
Std Dev 1235
400
300
200
100
0
−100
−200
−300
−400
pull1D
Entries 66
Mean 1.242
Std Dev 6.052
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

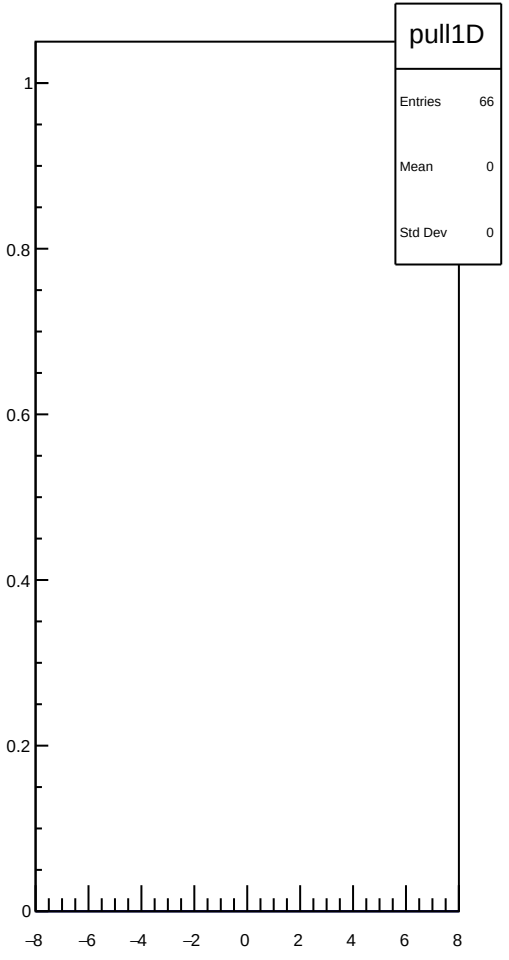

yield_bpm0l02X_rms vs run
χ² / ndf 2.346e+04 / 65
p0 0.02322 ± 2.062e−05
0.04
0.035
0.03
0.025
0.02

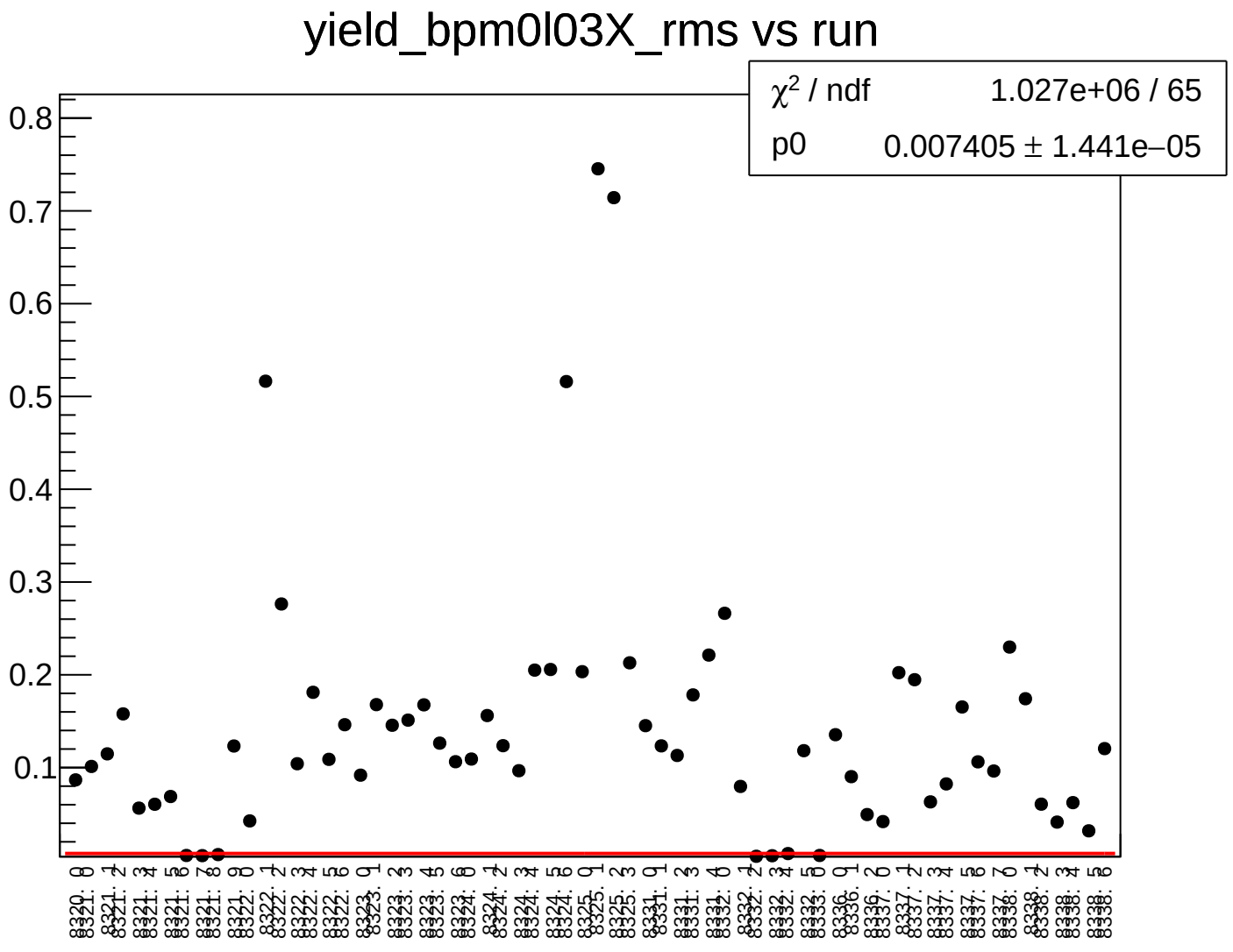

yield_bpm0l02Y_mean vs run
χ² / ndf 3.231e+06 / 65
p0 −1.222 ± 1.999e−05
pull
Entries 66
Mean 130.2
Std Dev 48.84

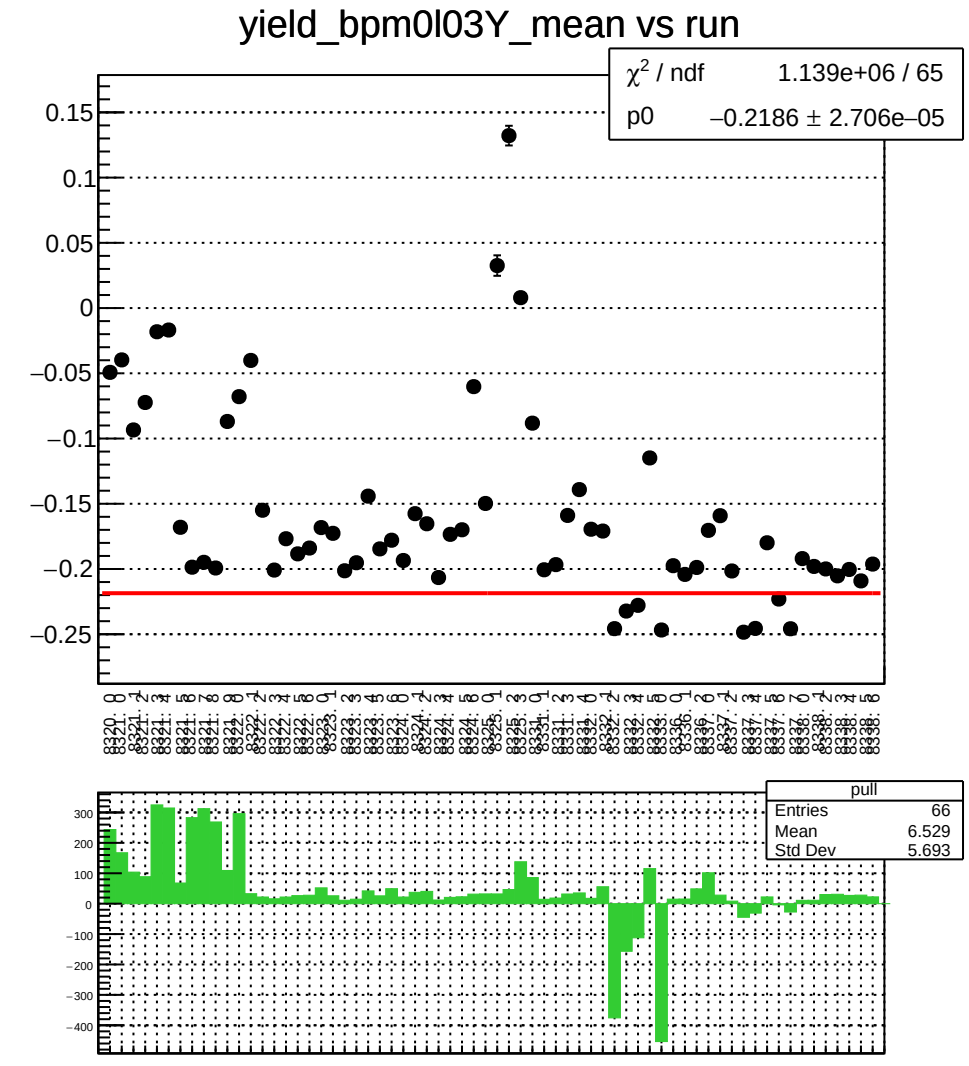

pull1D
Entries 66
Mean 1.709
Std Dev 0

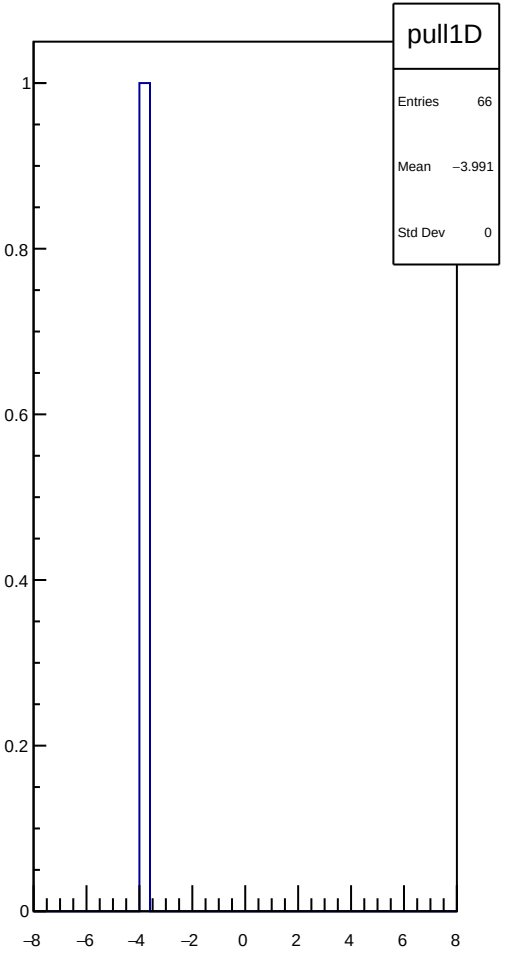

yield_bpm0l02Y_rms vs run
χ² / ndf 6.815e+04 / 65
p0 0.01564 ± 1.414e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

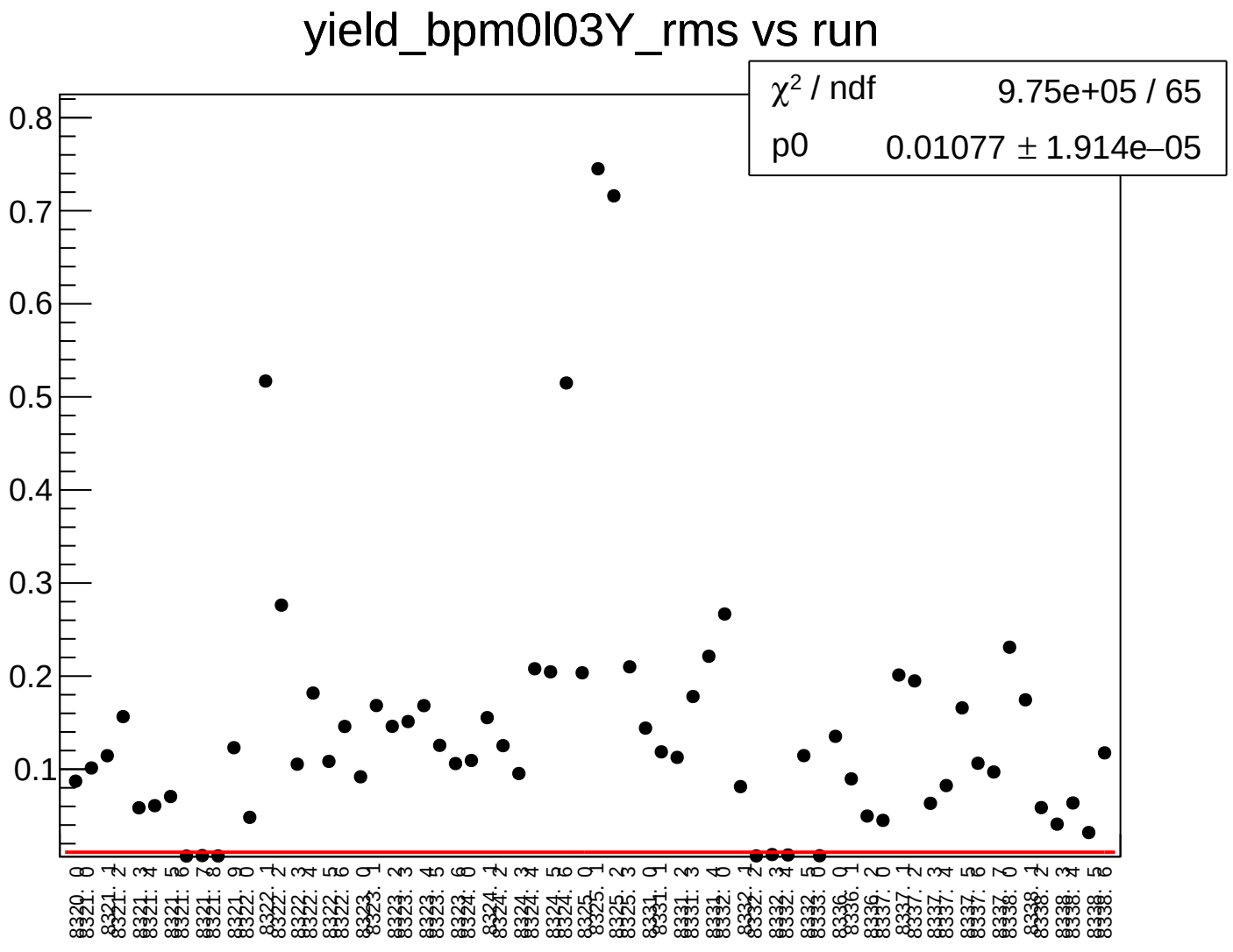

yield_bpm0l03X_mean vs run
χ² / ndf 8.755e+05 / 65
p0 −3.382 ± 2.038e−05
−2.9
−3
−3.1
−3.2
−3.3
−3.4
pull
Entries 66
Mean 20.63
Std Dev 18.44
300
200
100
0
−100
−200
−300

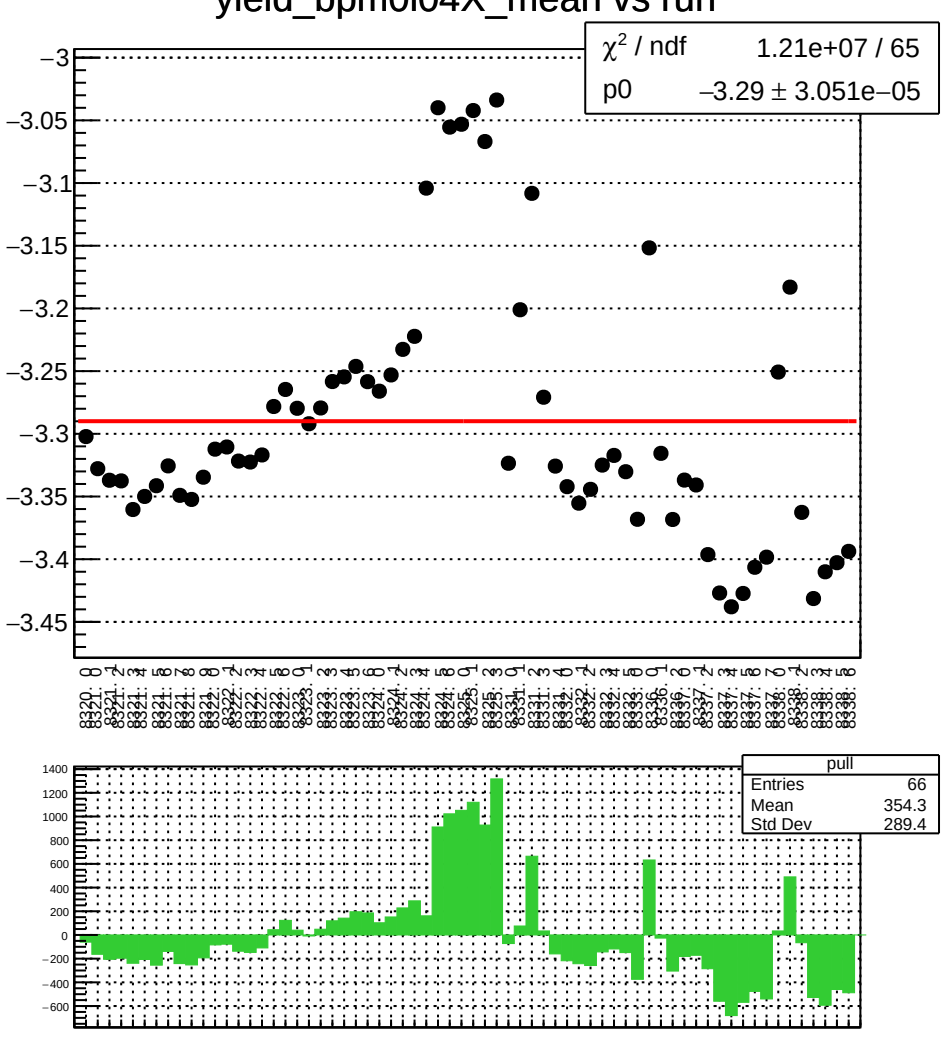

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

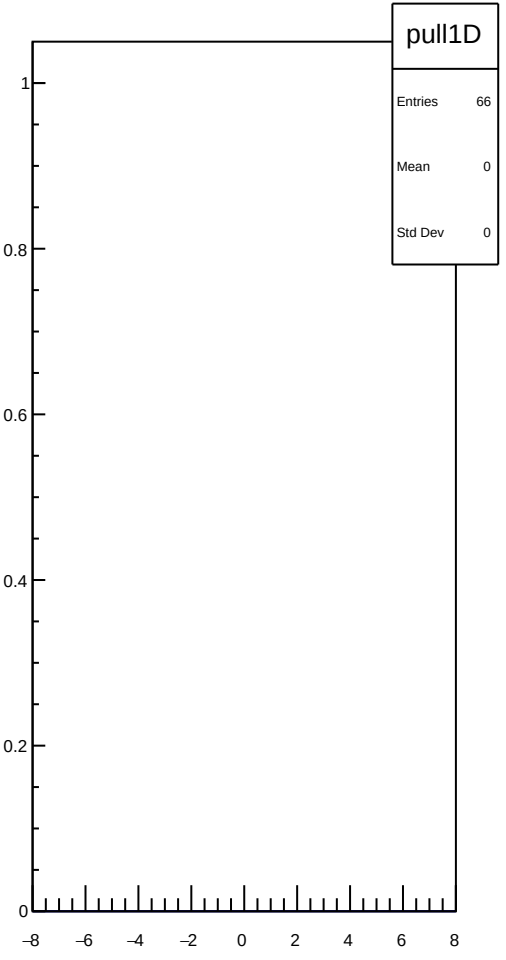

yield_bpm0l03X_rms vs run
χ² / ndf 1.027e+06 / 65
p0 0.007405 ± 1.441e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

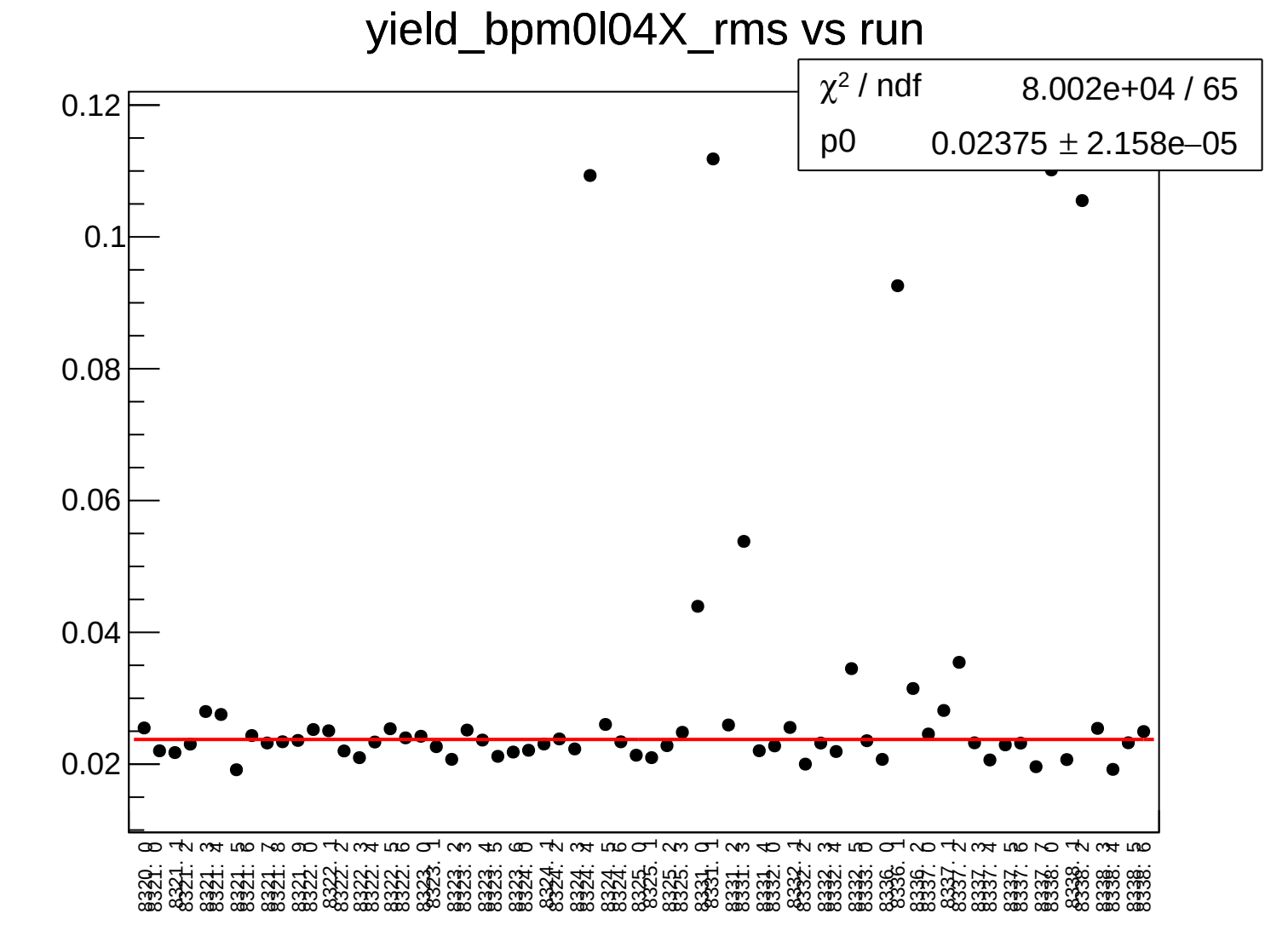

yield_bpm0l03Y_mean vs run
χ² / ndf 1.139e+06 / 65
p0 −0.2186 ± 2.706e−05
pull
Entries 66
Mean 6.529
Std Dev 5.693

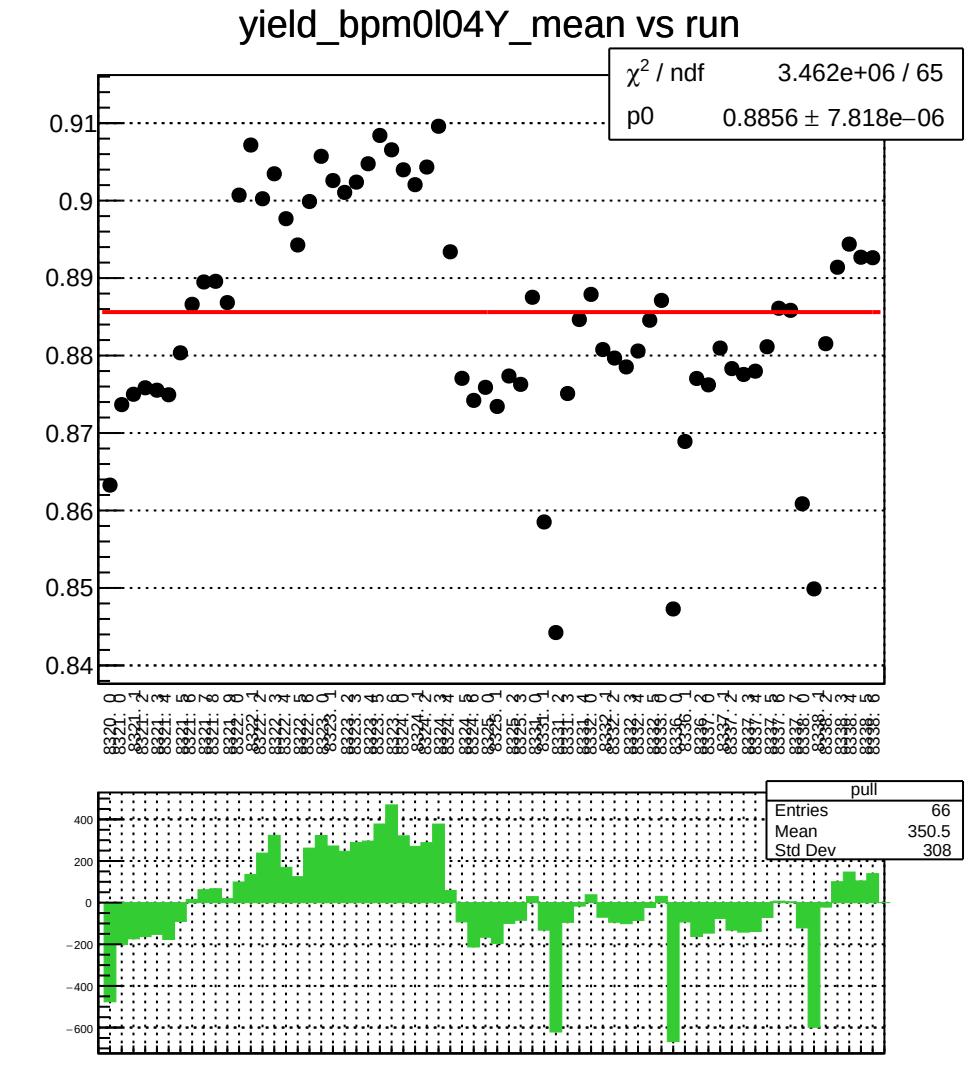

pull1D
Entries 66
Mean −3.991
Std Dev 0

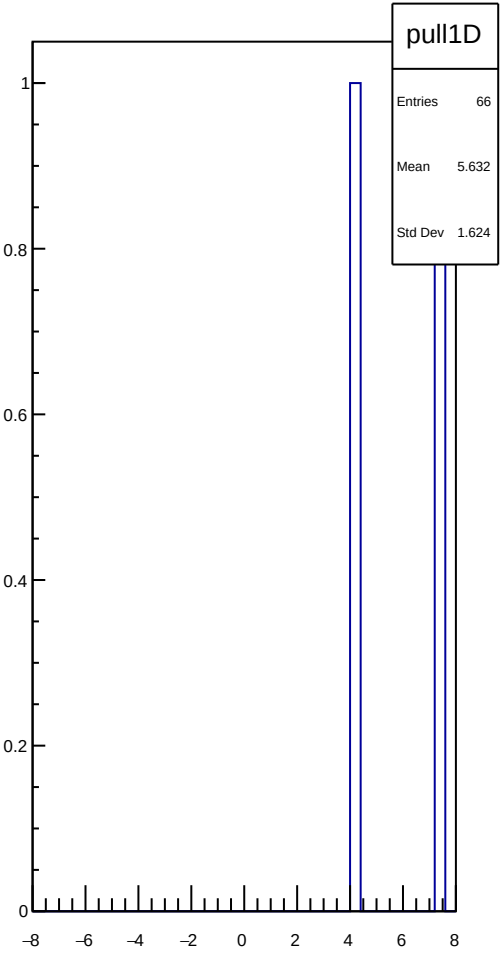

yield_bpm0l03Y_rms vs run
χ² / ndf 9.75e+05 / 65
p0 0.01077 ± 1.914e−05
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1

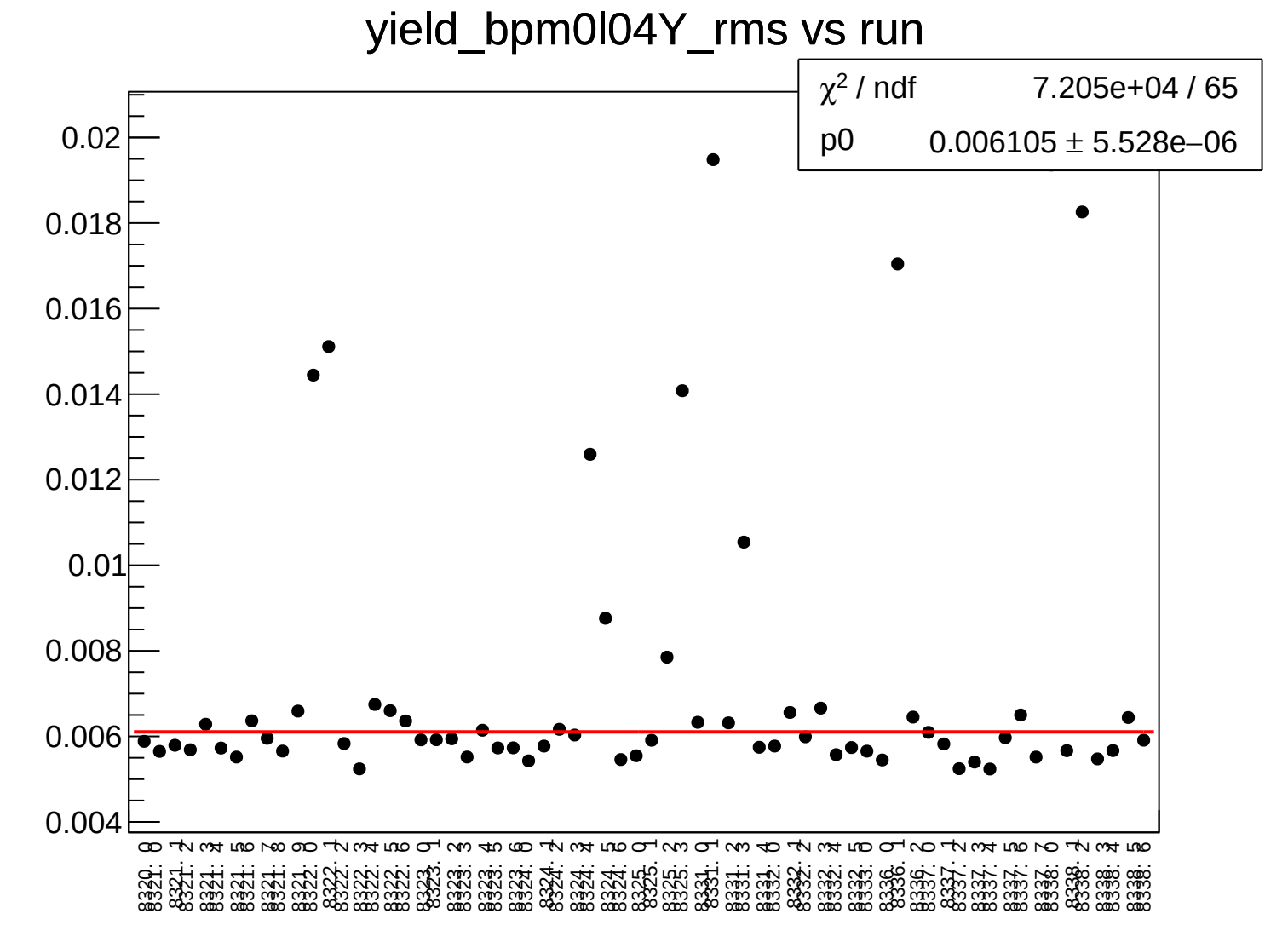

yield_bpm0l04X_mean vs run
χ² / ndf 1.21e+07 / 65
p0 −3.29 ± 3.051e−05
pull
Entries 66
Mean 354.3
Std Dev 289.4

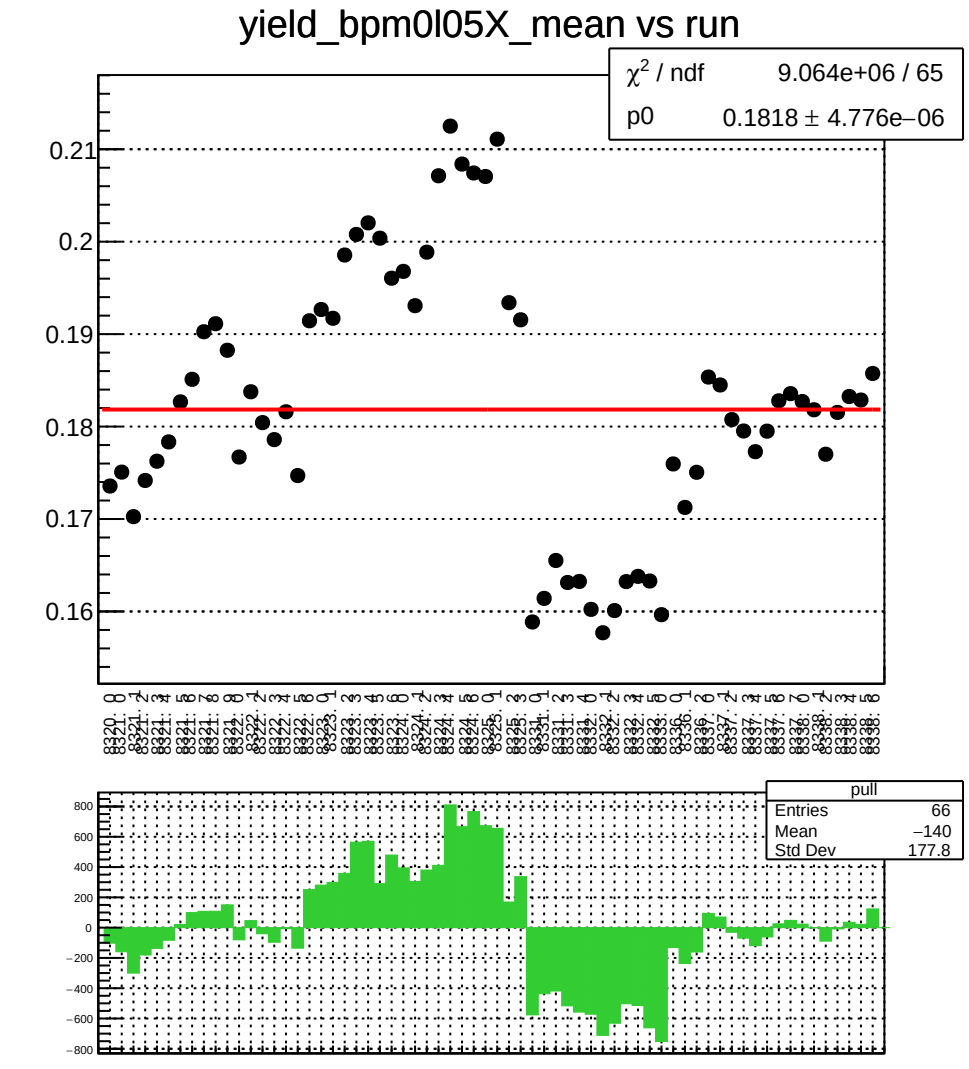

pull1D
Entries 66
Mean 0
Std Dev 0

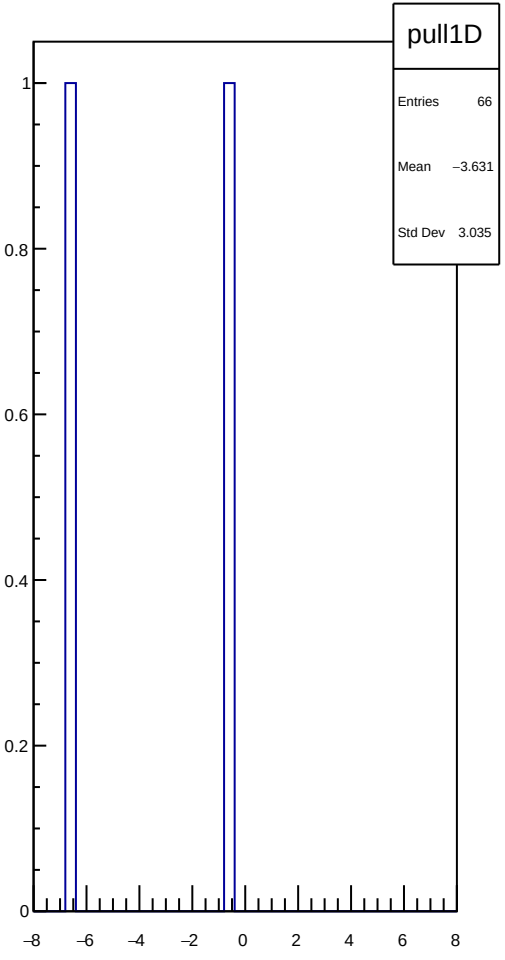

yield_bpm0l04X_rms vs run
χ² / ndf 8.002e+04 / 65
p0 0.02375 ± 2.158e–05
0.12
0.1
0.08
0.06
0.04
0.02

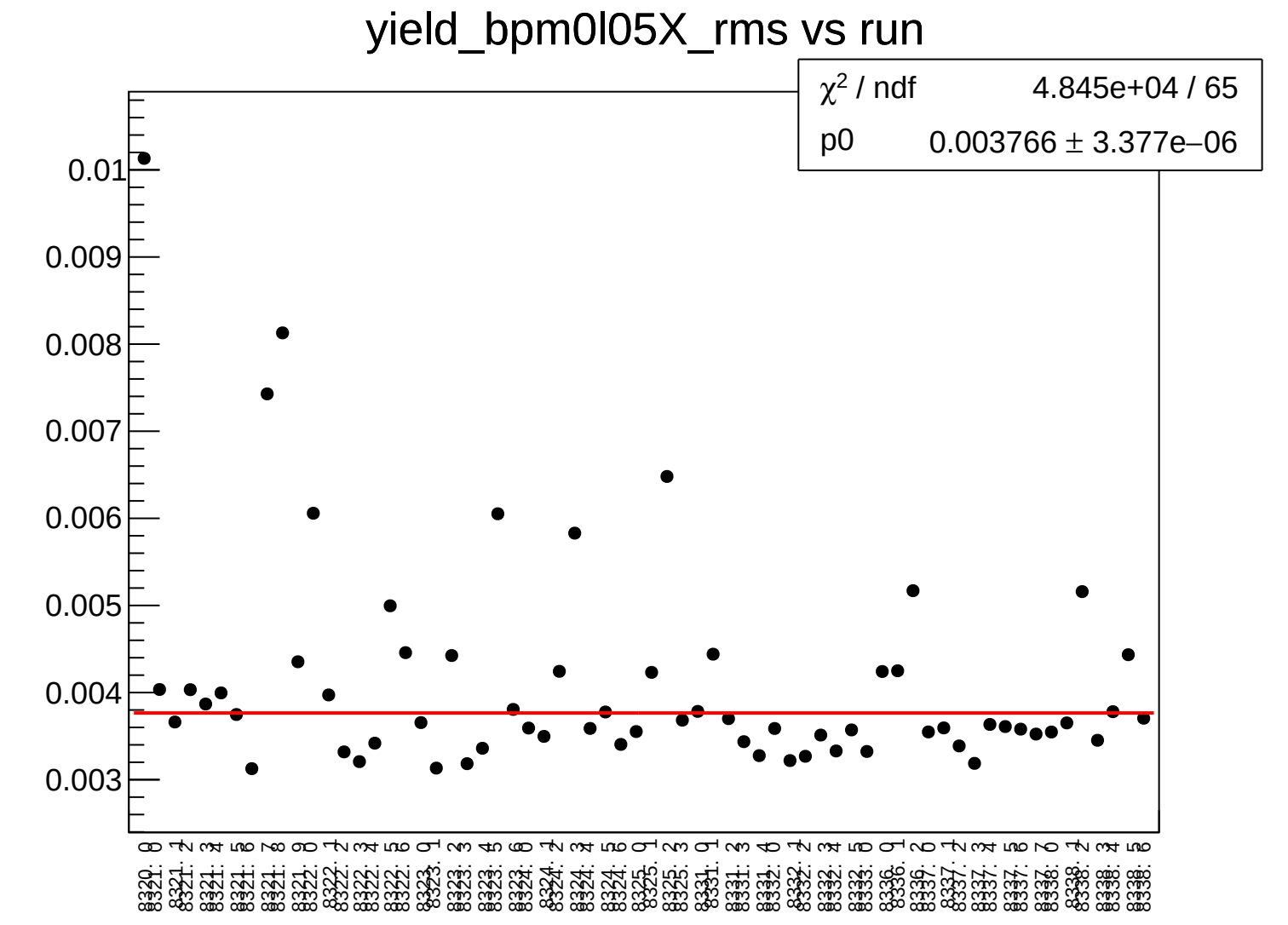

yield_bpm0l04Y_mean vs run
χ² / ndf 3.462e+06 / 65
p0 0.8856 ± 7.818e−06
0.91
0.9
0.89
0.88
0.87
0.86
0.85
0.84
pull
Entries 66
Mean 350.5
Std Dev 308
400
200
0
−200
−400
−600

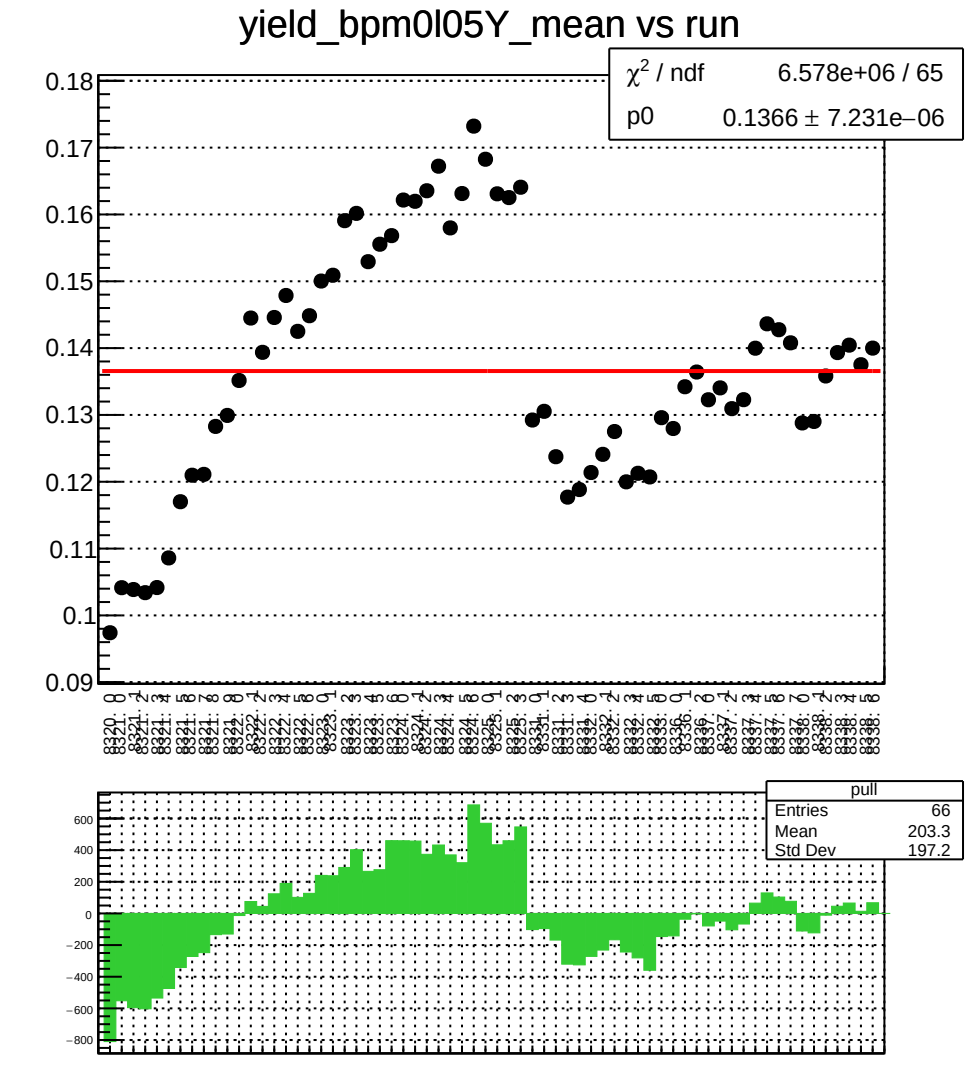

pull1D
Entries 66
Mean 5.632
Std Dev 1.624
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

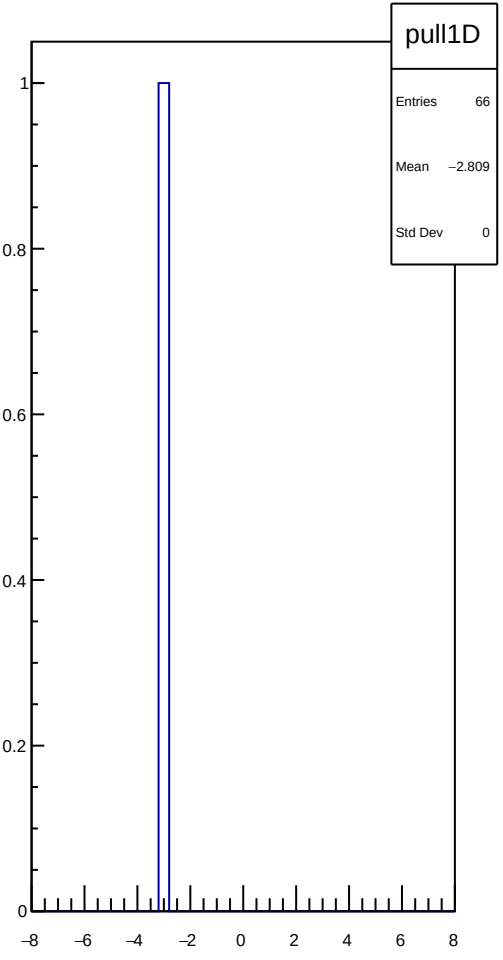

yield_bpm0l04Y_rms vs run
χ² / ndf 7.205e+04 / 65
p0 0.006105 ± 5.528e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

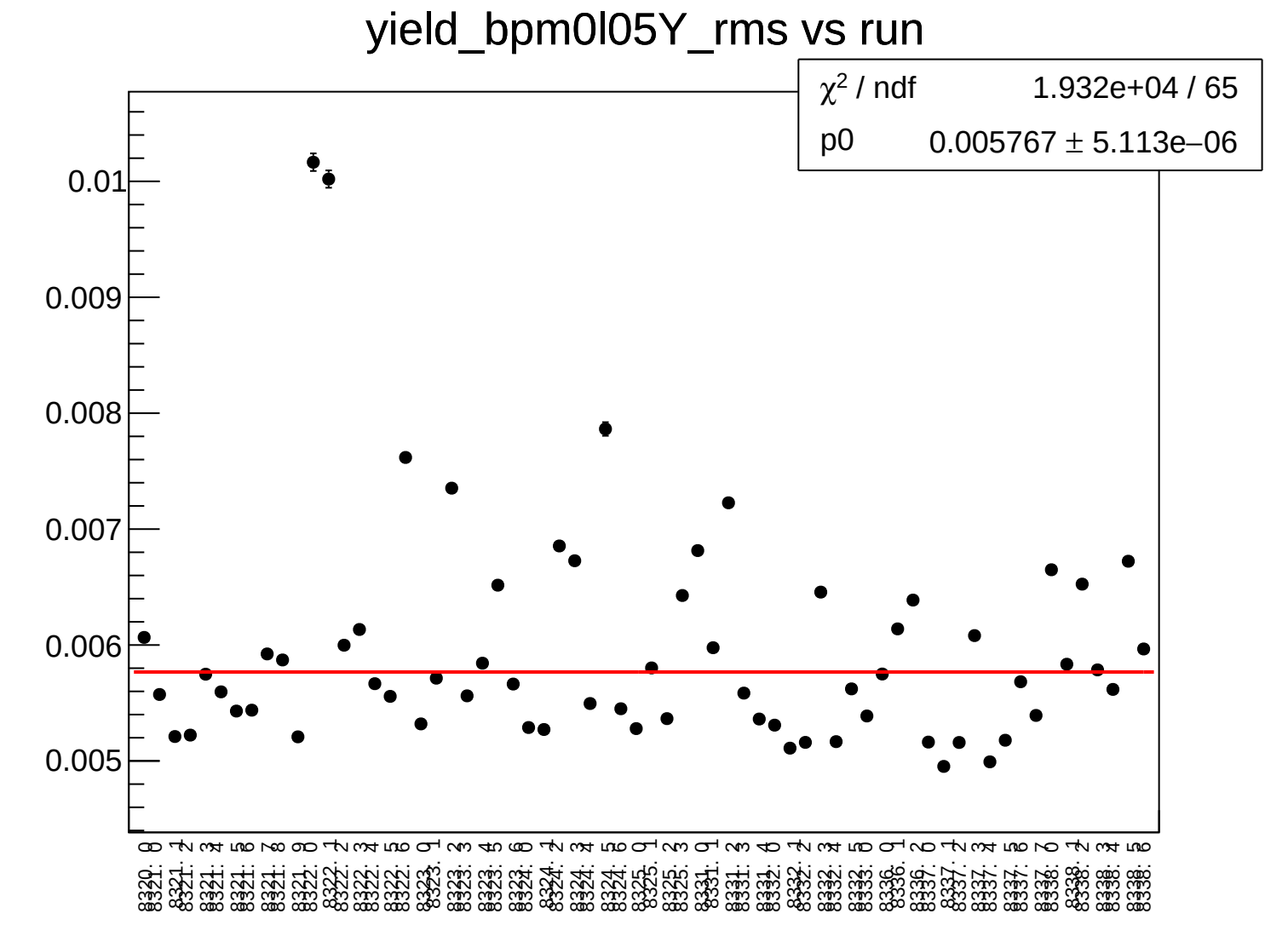

yield_bpm0l05X_mean vs run
χ² / ndf 9.064e+06 / 65
p0 0.1818 ± 4.776e−06
0.21
0.2
0.19
0.18
0.17
0.16
pull
Entries 66
Mean −140
Std Dev 177.8
800
600
400
200
0
−200
−400
−600
−800

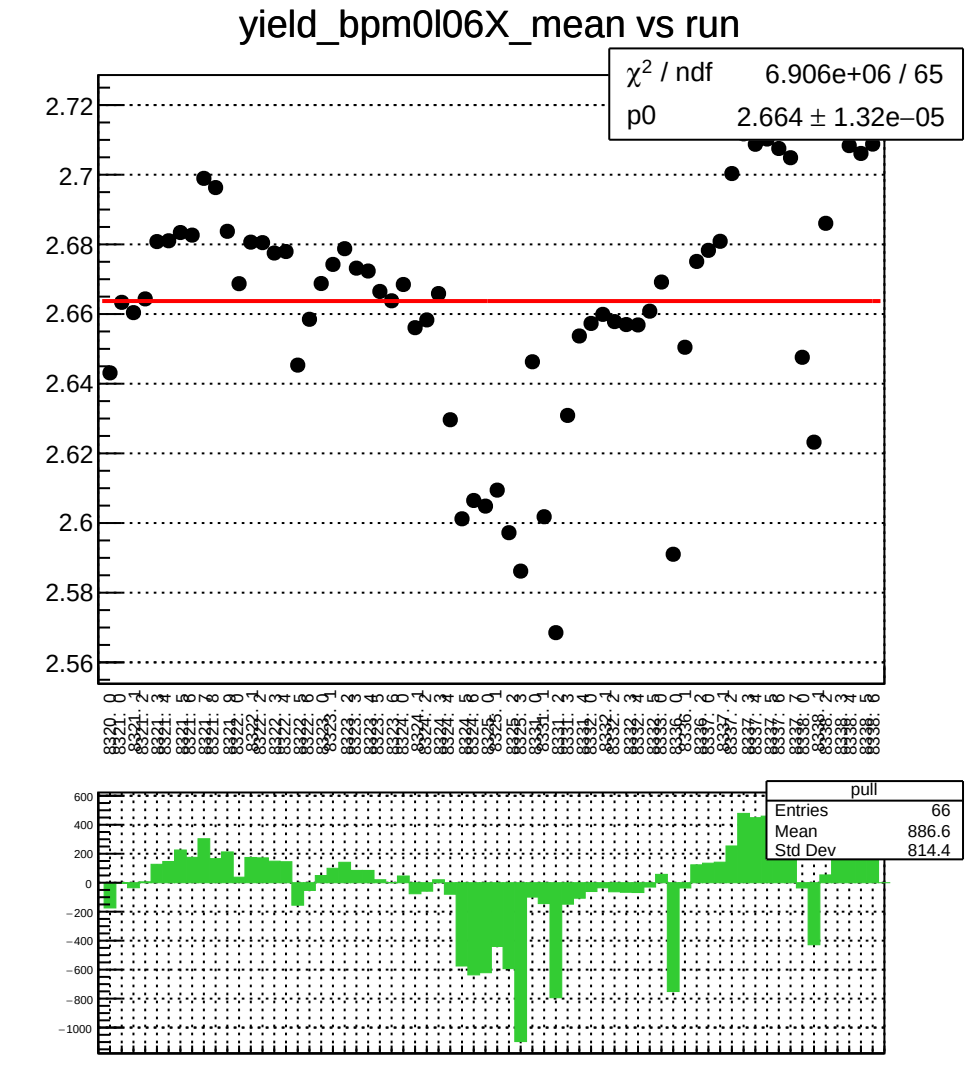

pull1D
Entries 66
Mean −3.631
Std Dev 3.035
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

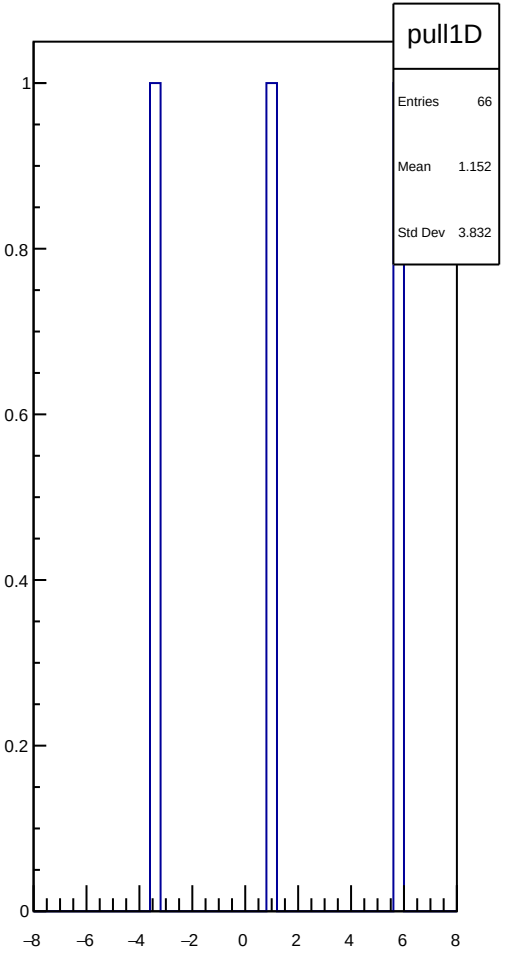

yield_bpm0l05X_rms vs run
χ^2 / ndf 4.845e+04 / 65
p0 0.003766 ± 3.377e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

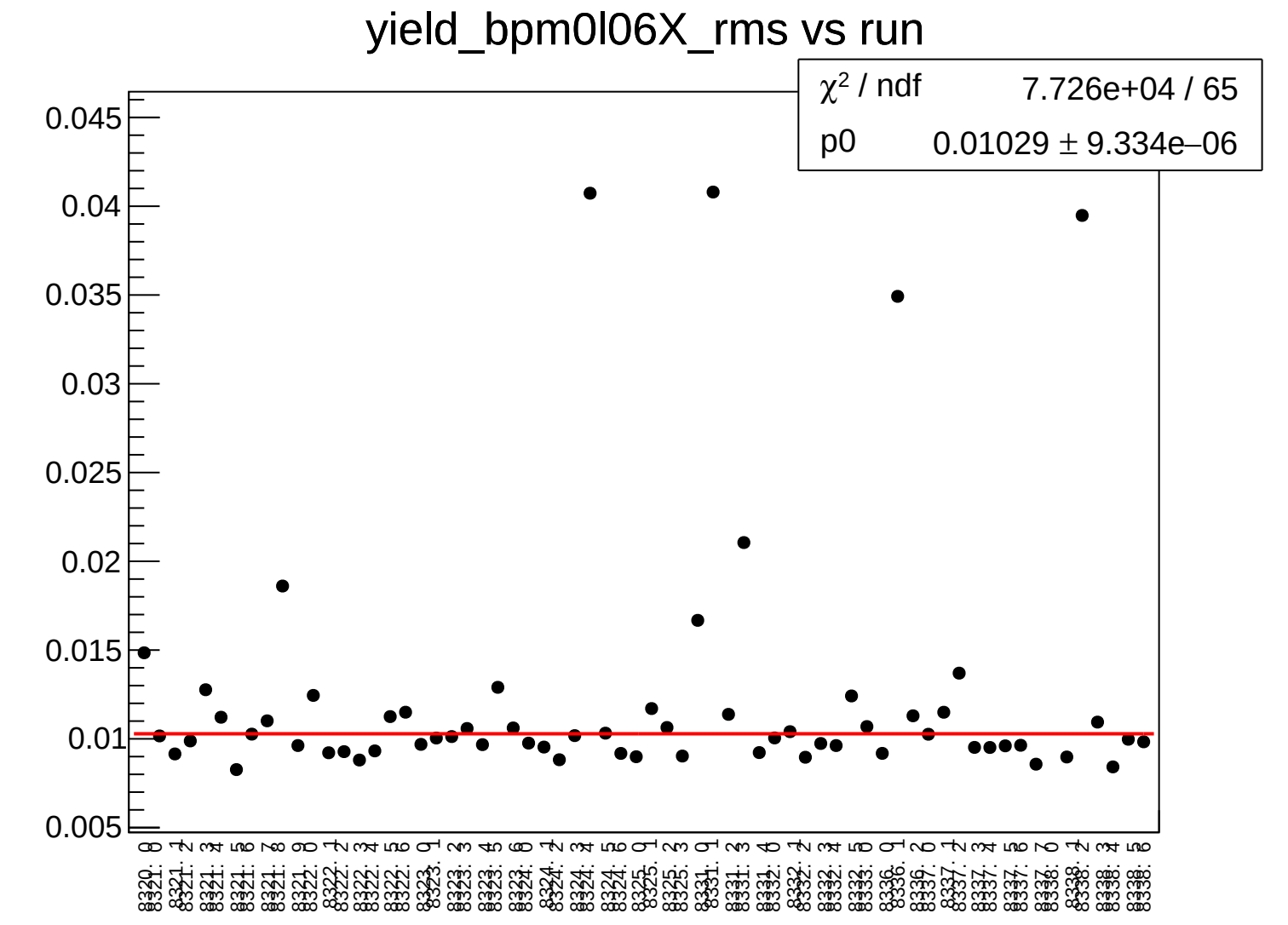

yield_bpm0l05Y_mean vs run
χ² / ndf 6.578e+06 / 65
p0 0.1366 ± 7.231e−06
pull
Entries 66
Mean 203.3
Std Dev 197.2

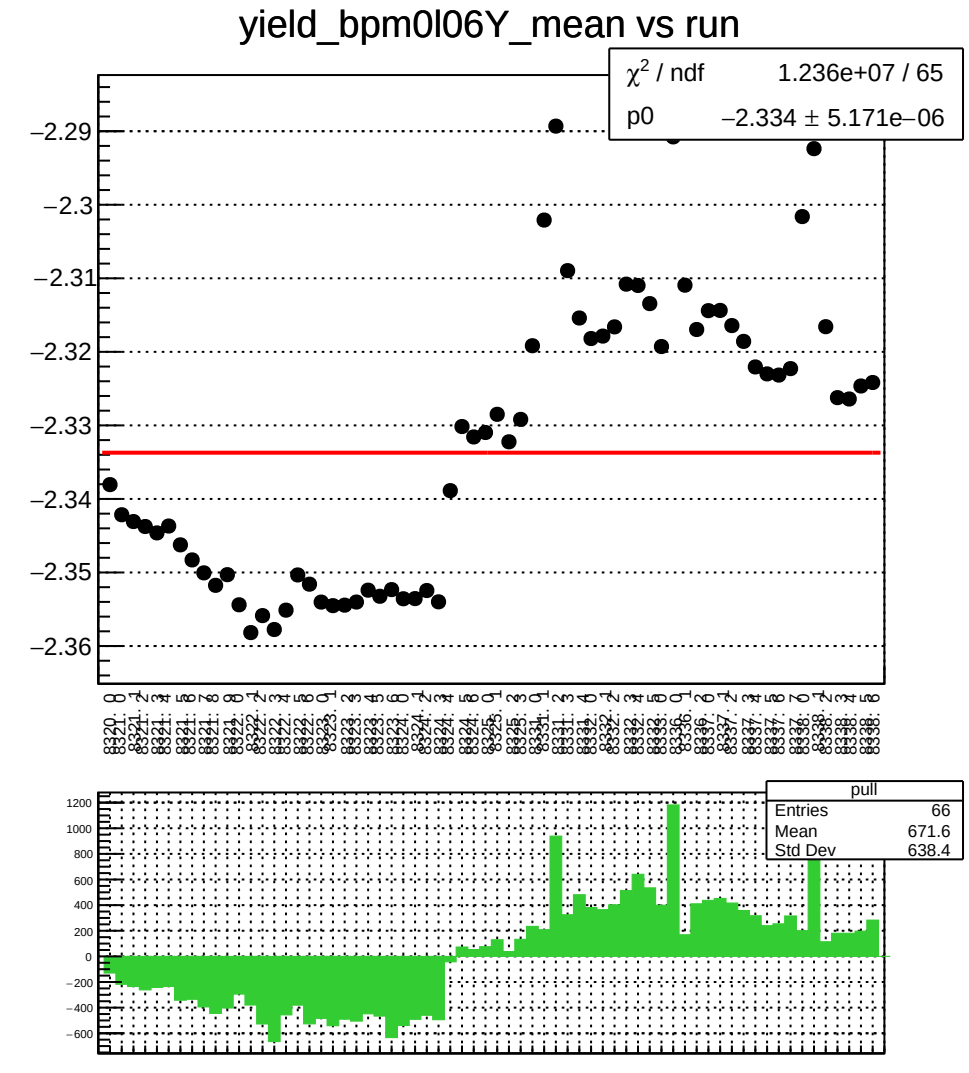

pull1D
Entries 66
Mean −2.809
Std Dev 0

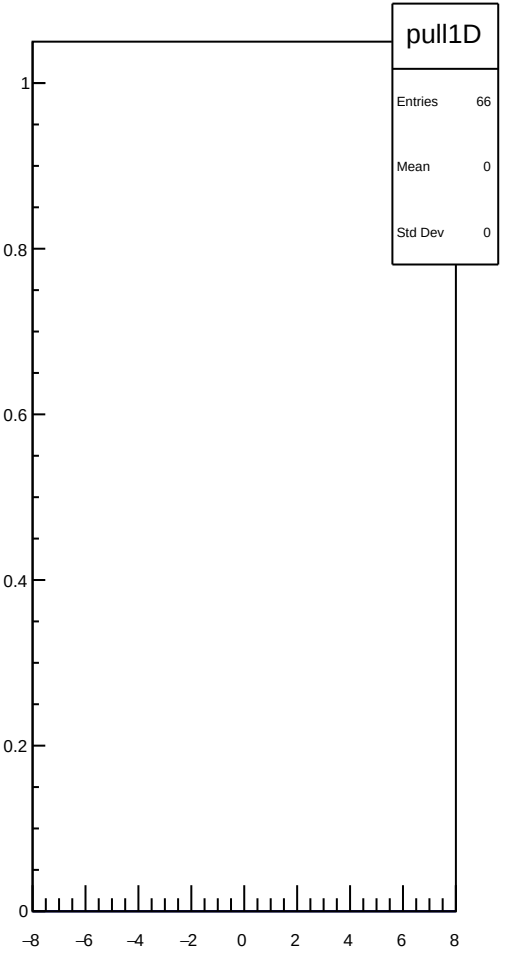

yield_bpm0l05Y_rms vs run
χ² / ndf 1.932e+04 / 65
p0 0.005767 ± 5.113e−06
0.01
0.009
0.008
0.007
0.006
0.005

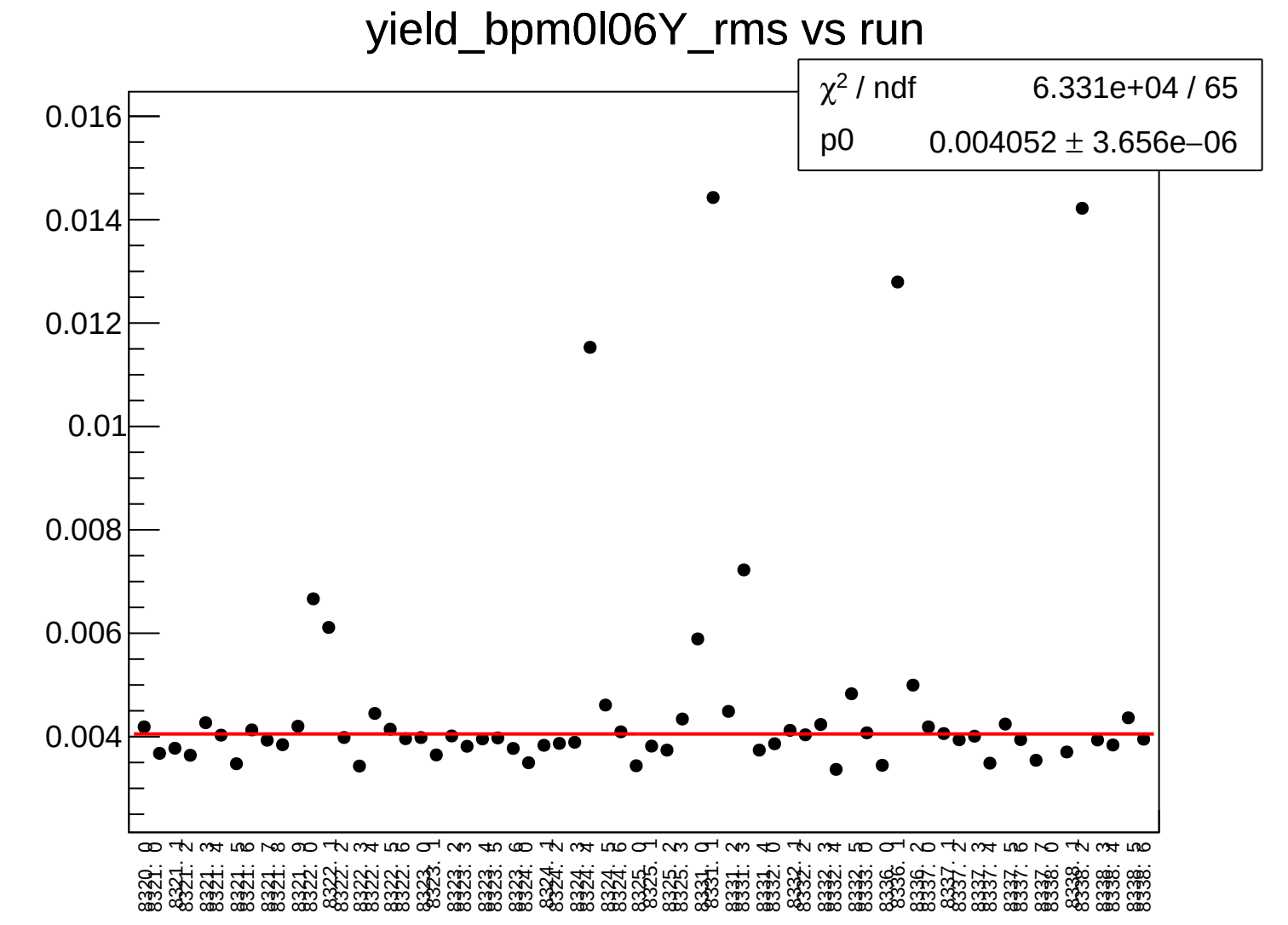

yield_bpm0l06X_mean vs run
χ² / ndf 6.906e+06 / 65
p0 2.664 ± 1.32e−05
pull
Entries 66
Mean 886.6
Std Dev 814.4

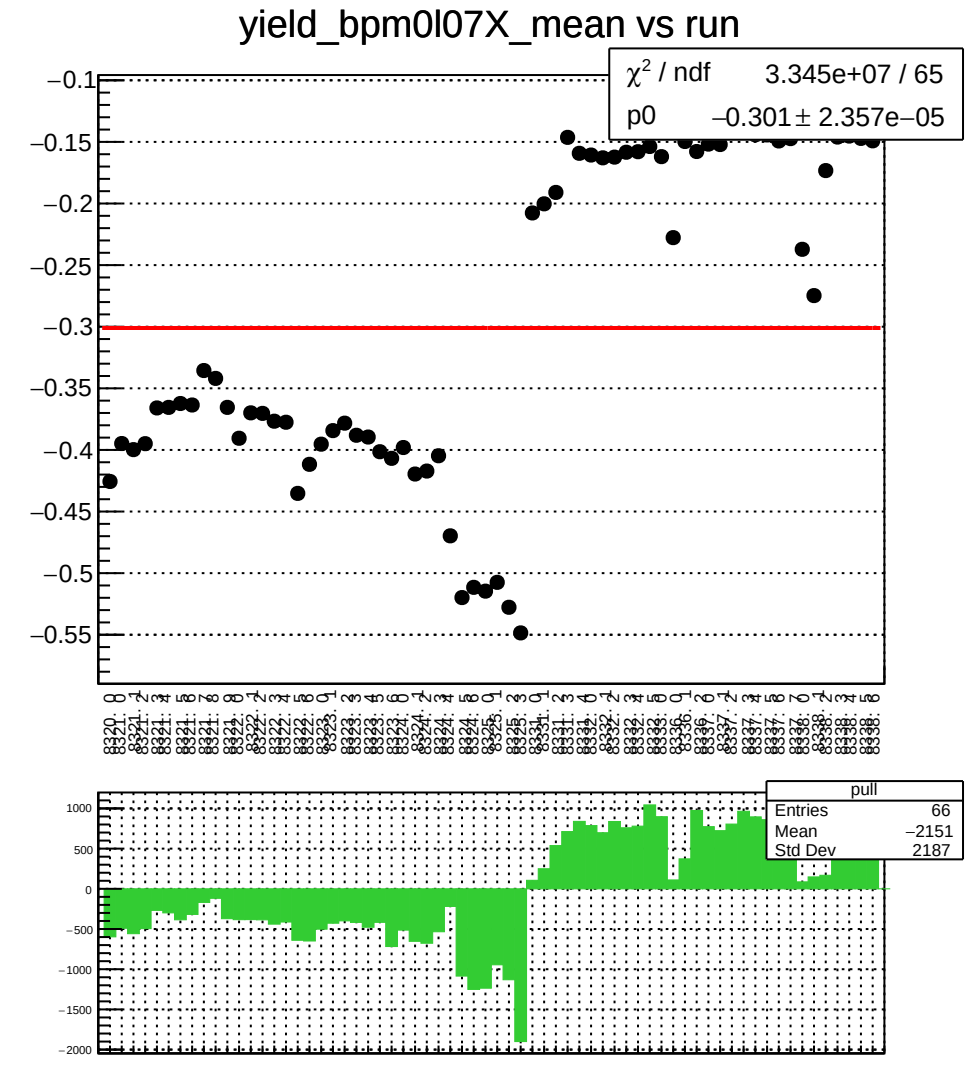

pull1D
Entries 66
Mean 1.152
Std Dev 3.832

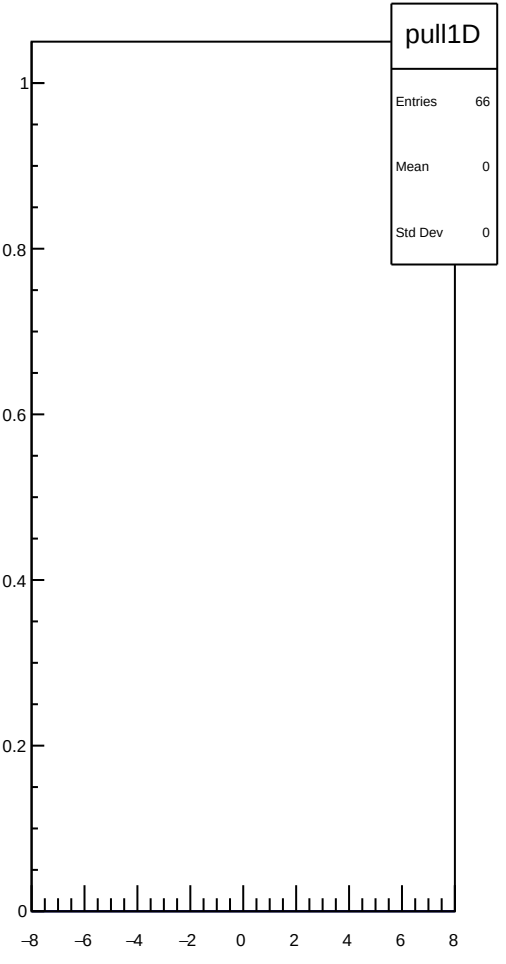

yield_bpm0l06X_rms vs run
χ² / ndf 7.726e+04 / 65
p0 0.01029 ± 9.334e–06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

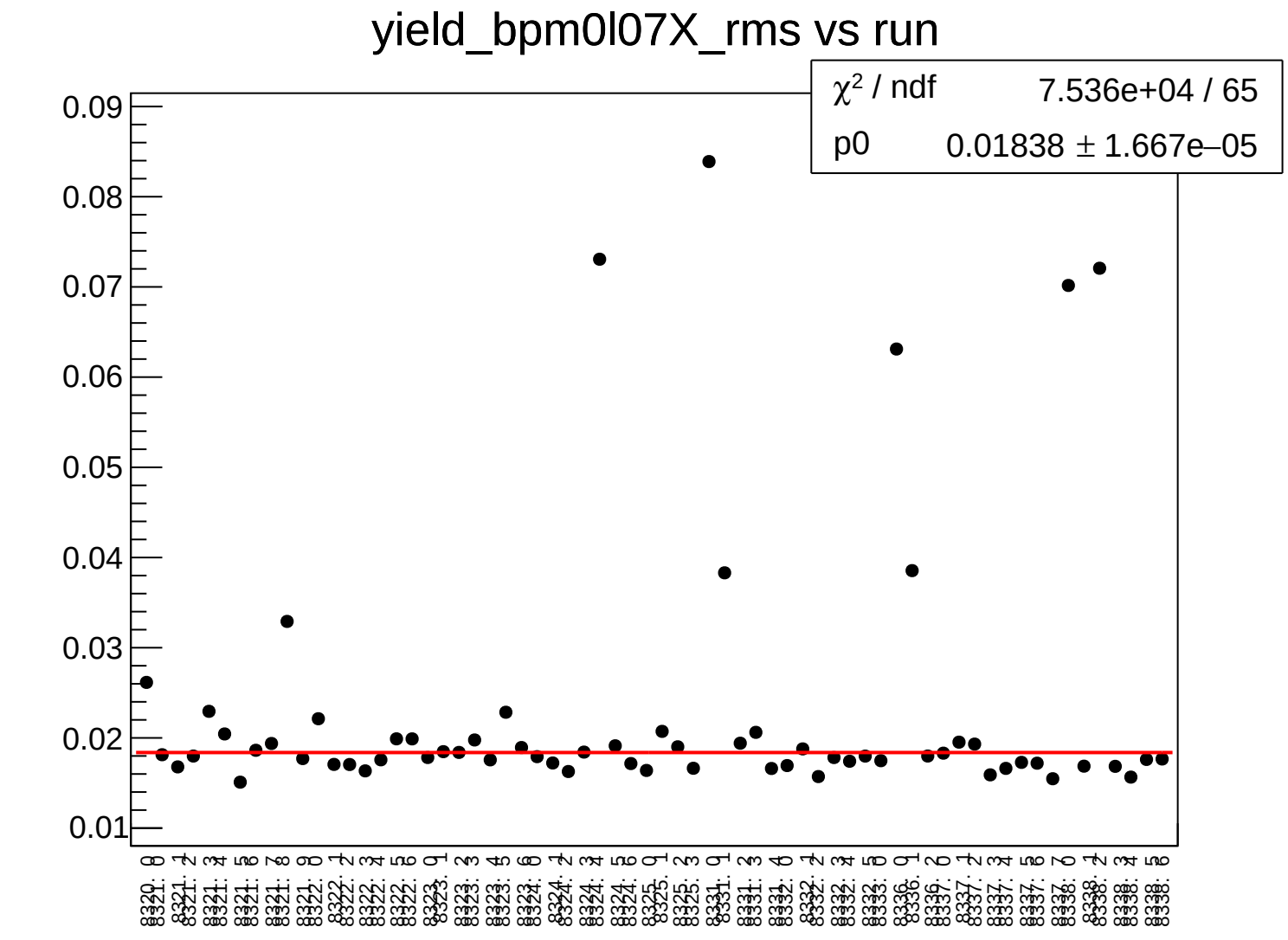

yield_bpm0l06Y_mean vs run
χ² / ndf 1.236e+07 / 65
p0 −2.334 ± 5.171e−06
−2.29
−2.3
−2.31
−2.32
−2.33
−2.34
−2.35
−2.36
pull
Entries 66
Mean 671.6
Std Dev 638.4
1200
1000
800
600
400
200
0
−200
−400
−600

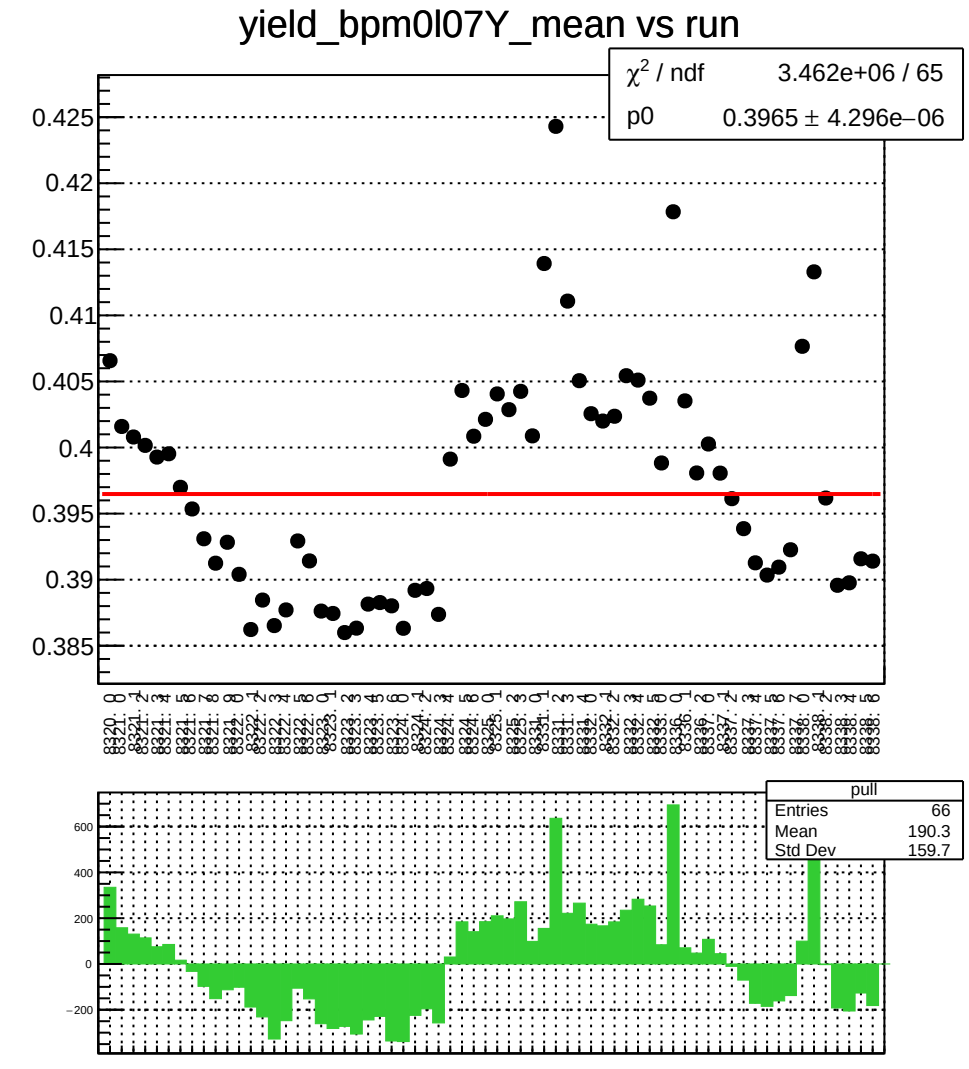

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

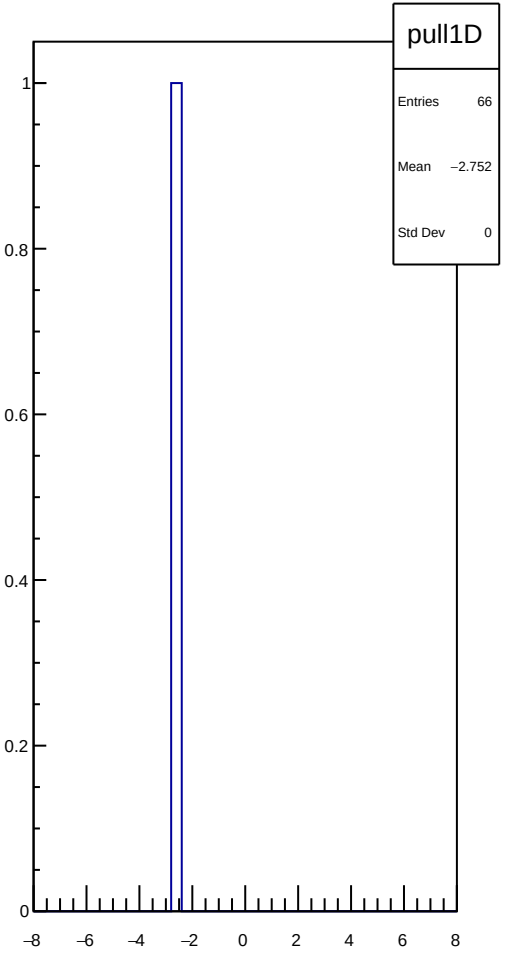

yield_bpm0l06Y_rms vs run
χ² / ndf 6.331e+04 / 65
p0 0.004052 ± 3.656e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

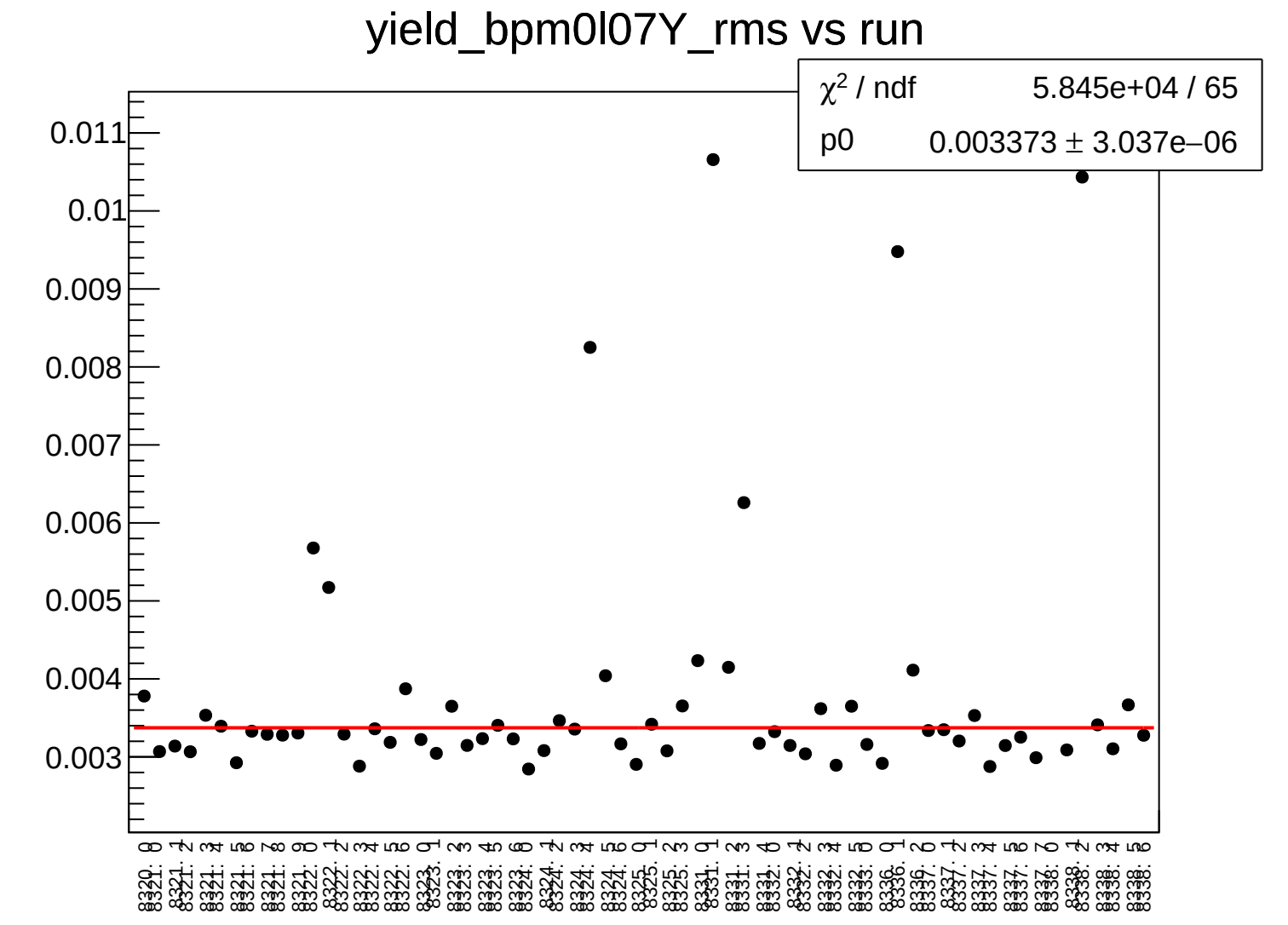

yield_bpm0l07X_mean vs run
χ² / ndf 3.345e+07 / 65
p0 −0.301 ± 2.357e−05
pull
Entries 66
Mean −2151
Std Dev 2187

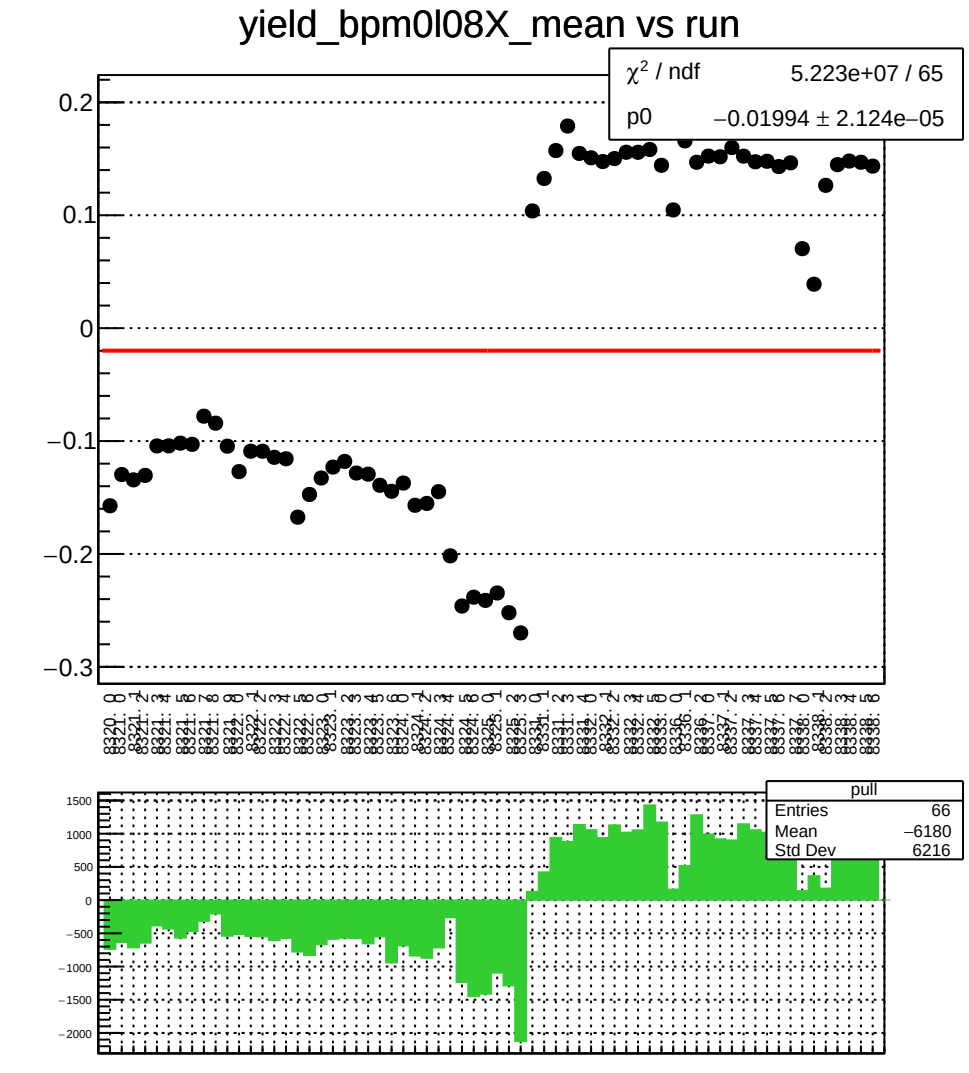

pull1D
Entries 66
Mean 0
Std Dev 0

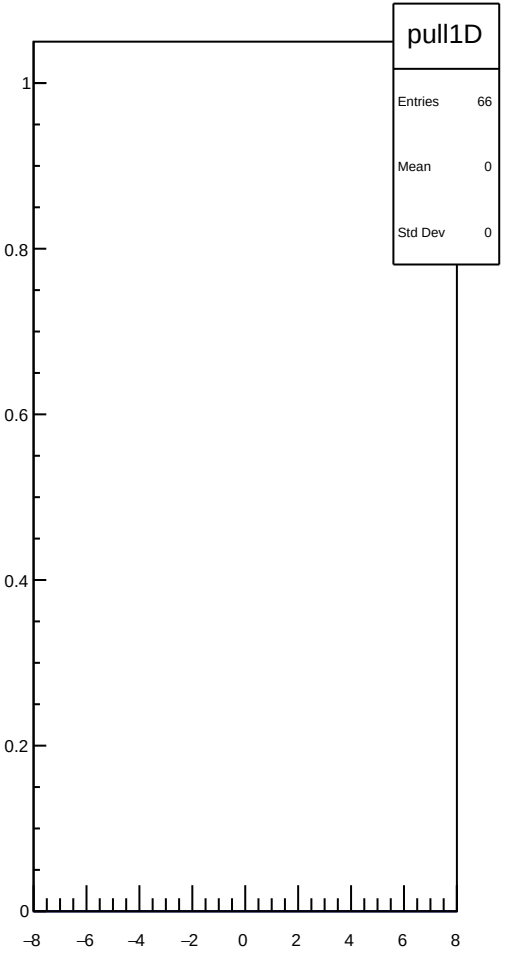

yield_bpm0l07X_rms vs run
χ² / ndf 7.536e+04 / 65
p0 0.01838 ± 1.667e−05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

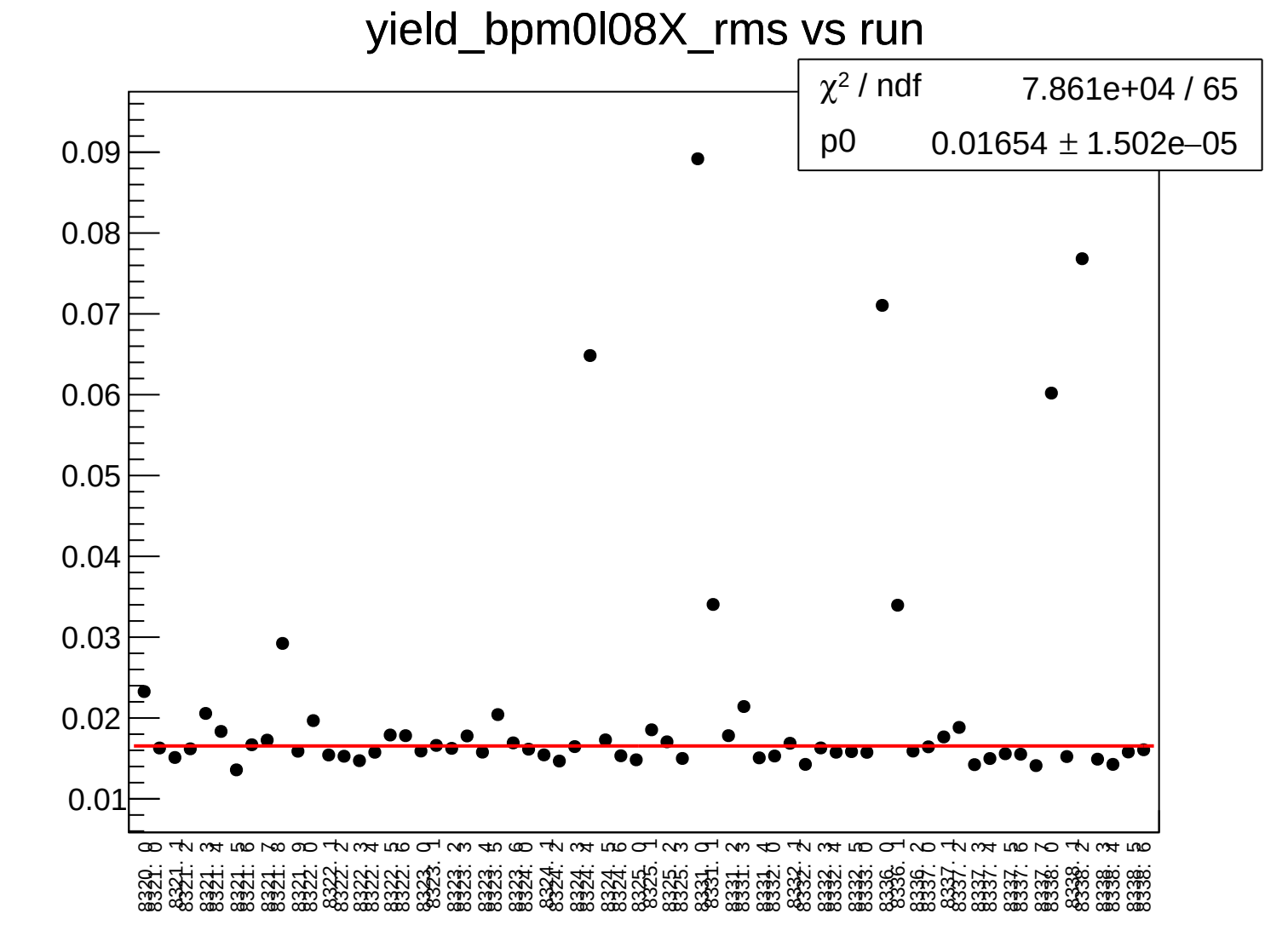

yield_bpm0l07Y_mean vs run
χ² / ndf 3.462e+06 / 65
p0 0.3965 ± 4.296e−06
pull
Entries 66
Mean 190.3
Std Dev 159.7

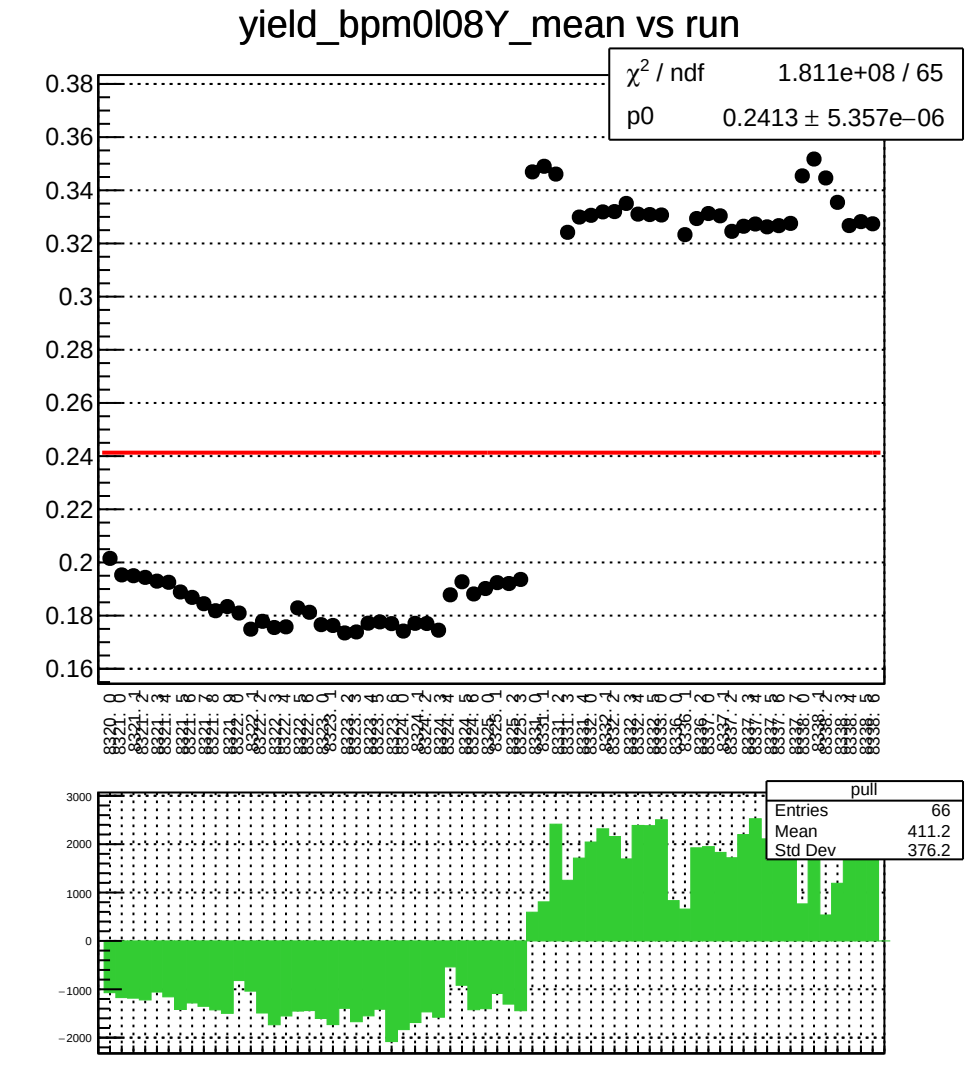

pull1D
Entries 66
Mean −2.752
Std Dev 0

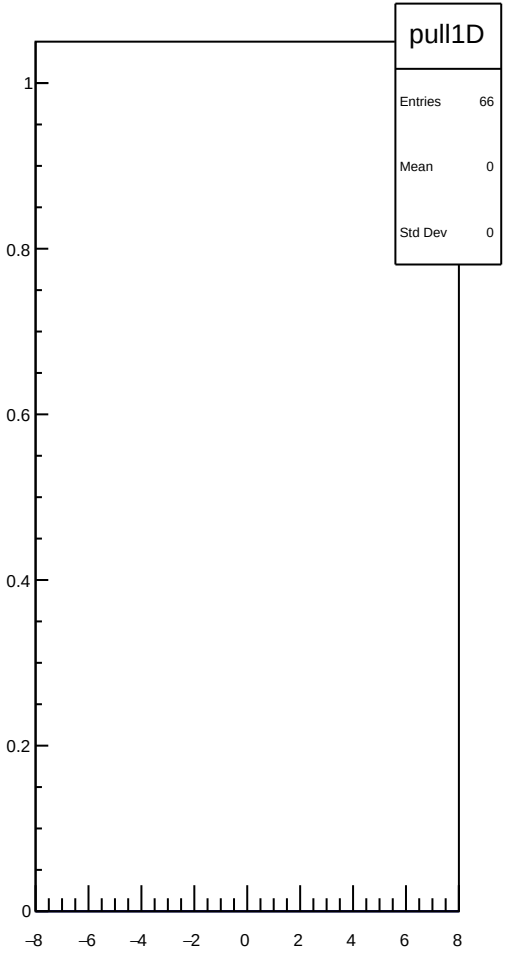

yield_bpm0l07Y_rms vs run
χ^2 / ndf 5.845e+04 / 65
p0 0.003373 ± 3.037e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

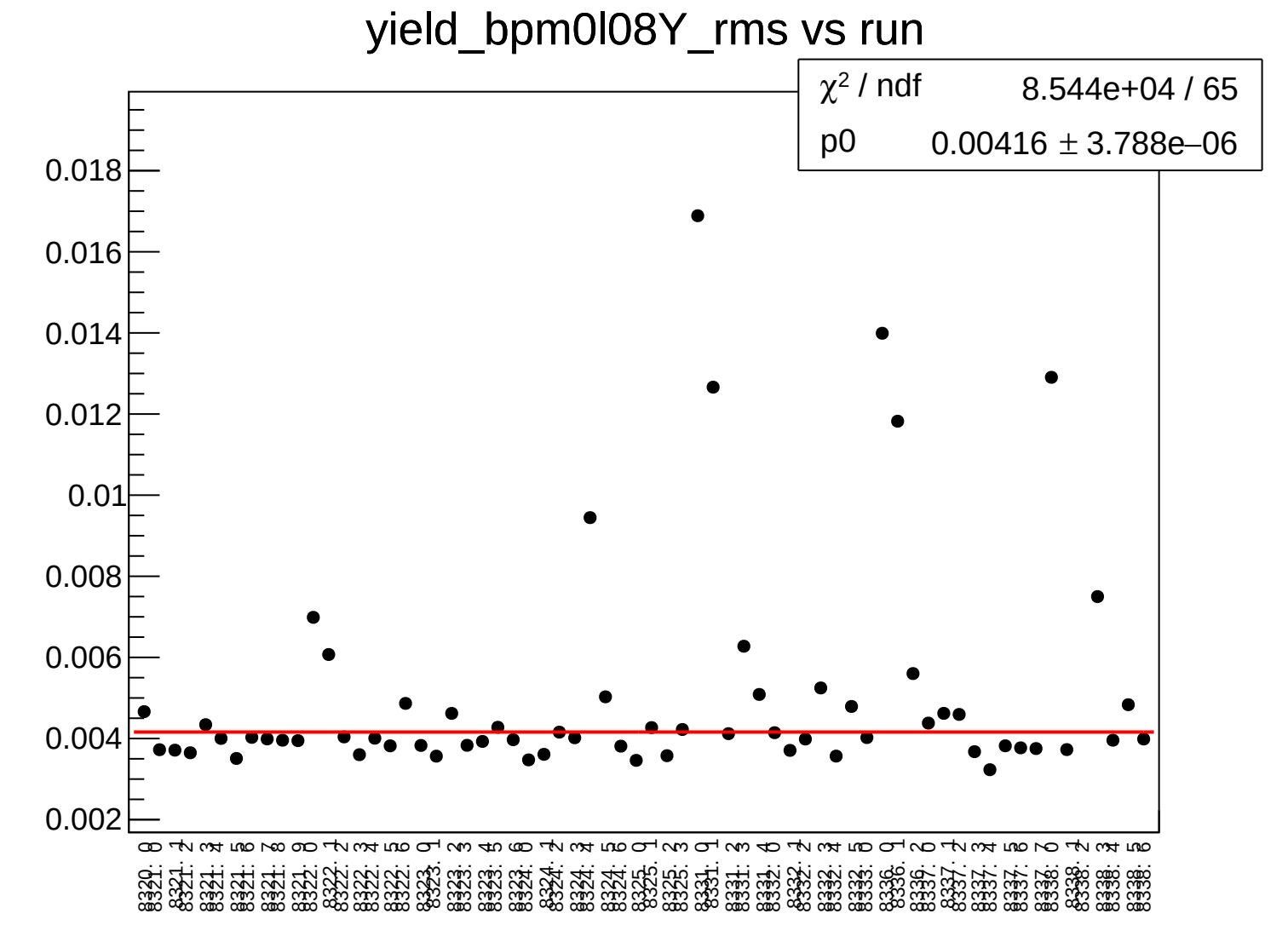

yield_bpm0l08X_mean vs run
χ² / ndf 5.223e+07 / 65
p0 −0.01994 ± 2.124e−05
pull
Entries 66
Mean −6180
Std Dev 6216

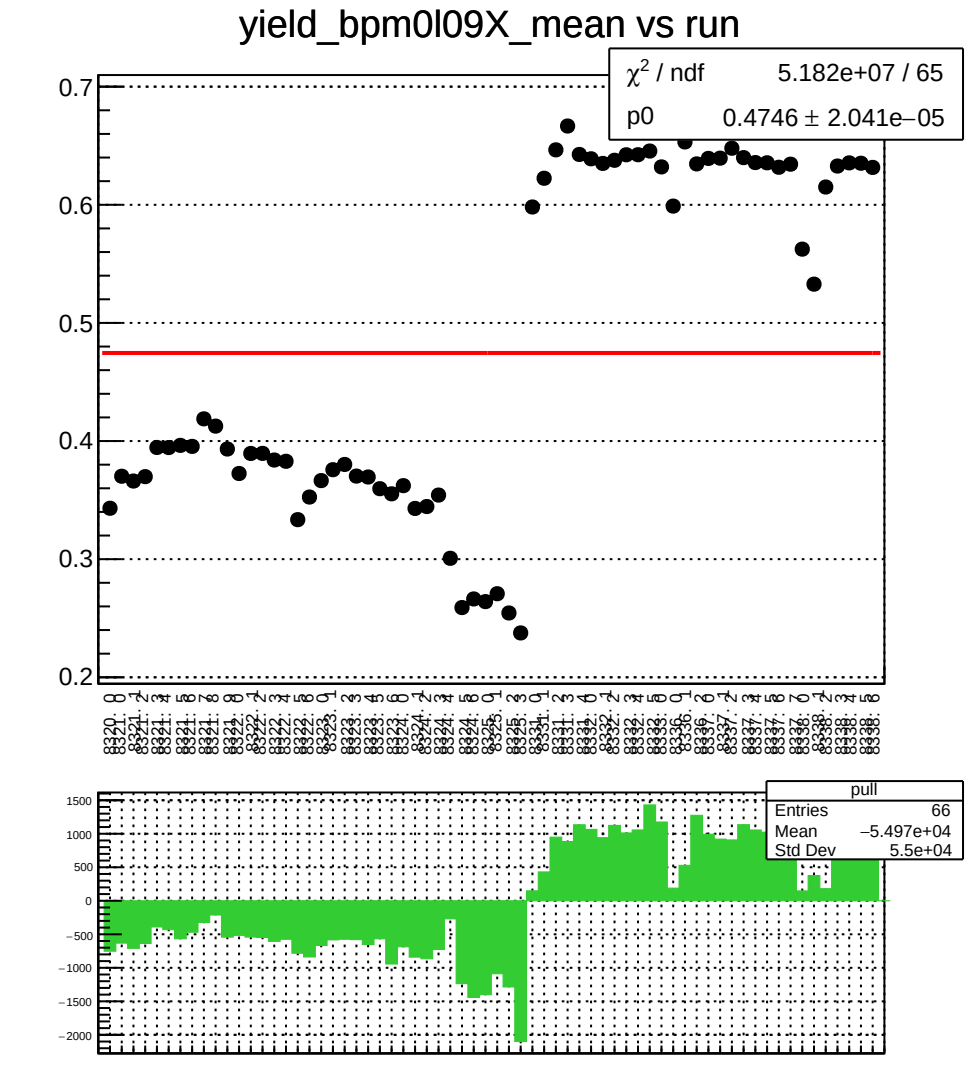

pull1D
Entries 66
Mean 0
Std Dev 0

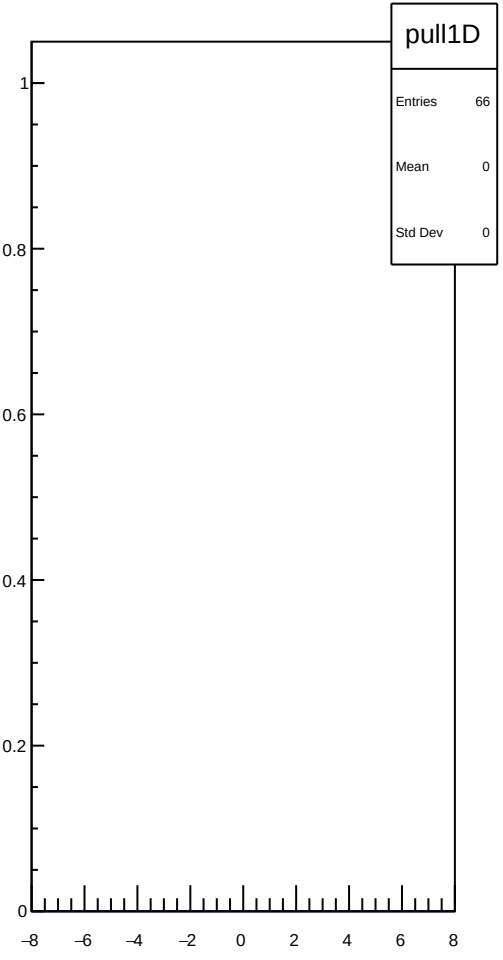

yield_bpm0l08X_rms vs run
χ² / ndf 7.861e+04 / 65
p0 0.01654 ± 1.502e–05
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

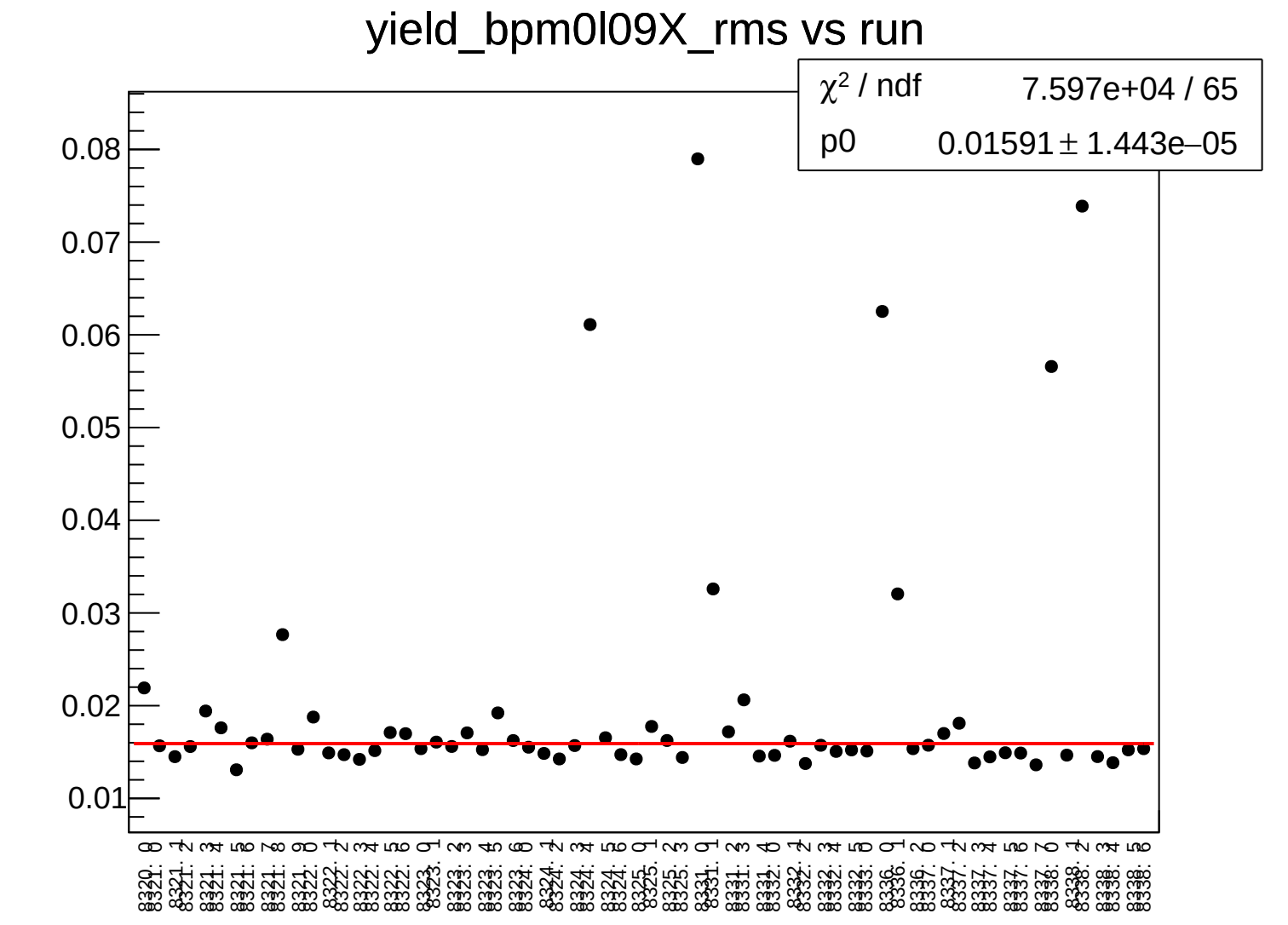

yield_bpm0l08Y_mean vs run
χ² / ndf 1.811e+08 / 65
p0 0.2413 ± 5.357e−06
pull
Entries 66
Mean 411.2
Std Dev 376.2

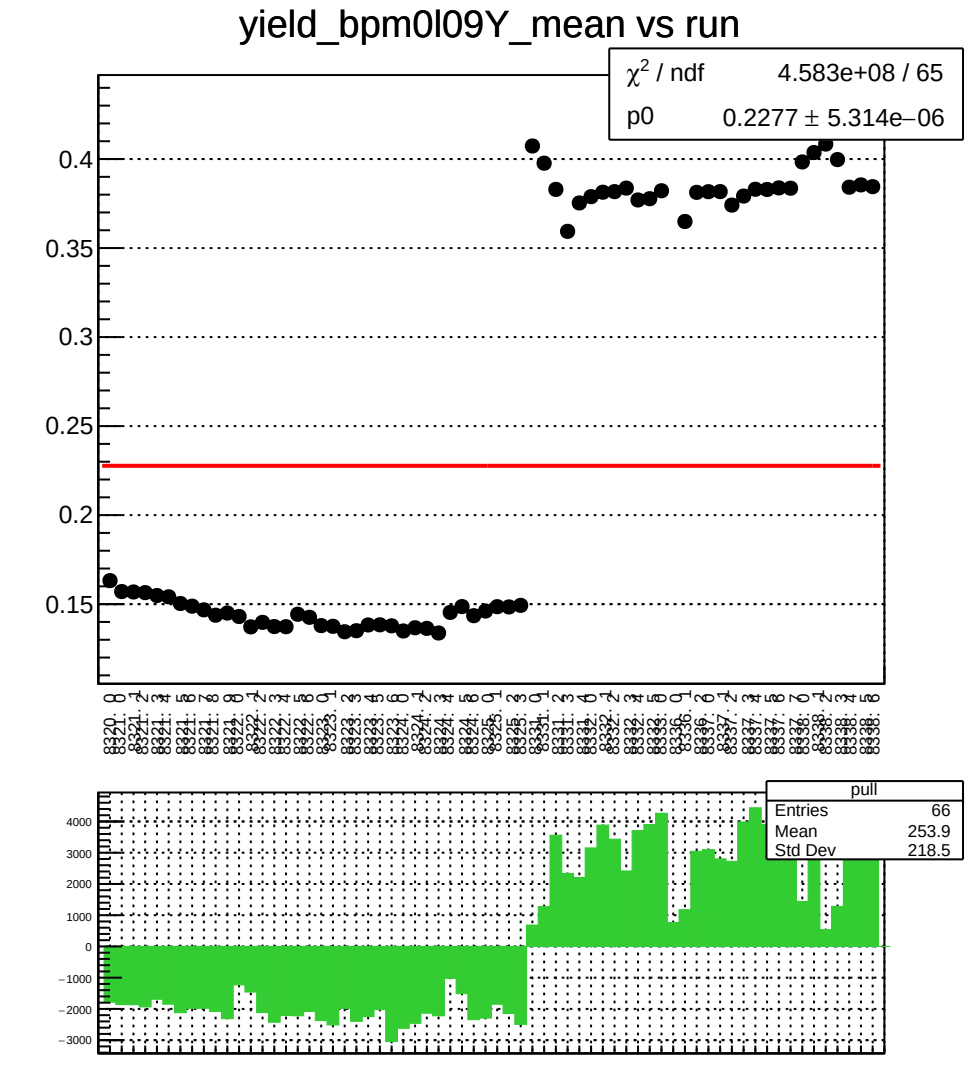

pull1D
Entries 66
Mean 0
Std Dev 0

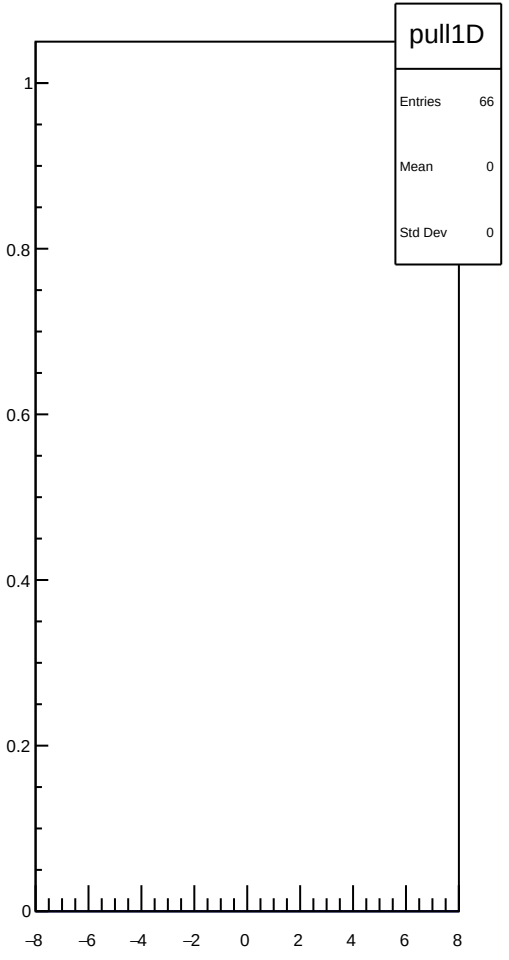

yield_bpm0l08Y_rms vs run
χ² / ndf 8.544e+04 / 65
p0 0.00416 ± 3.788e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

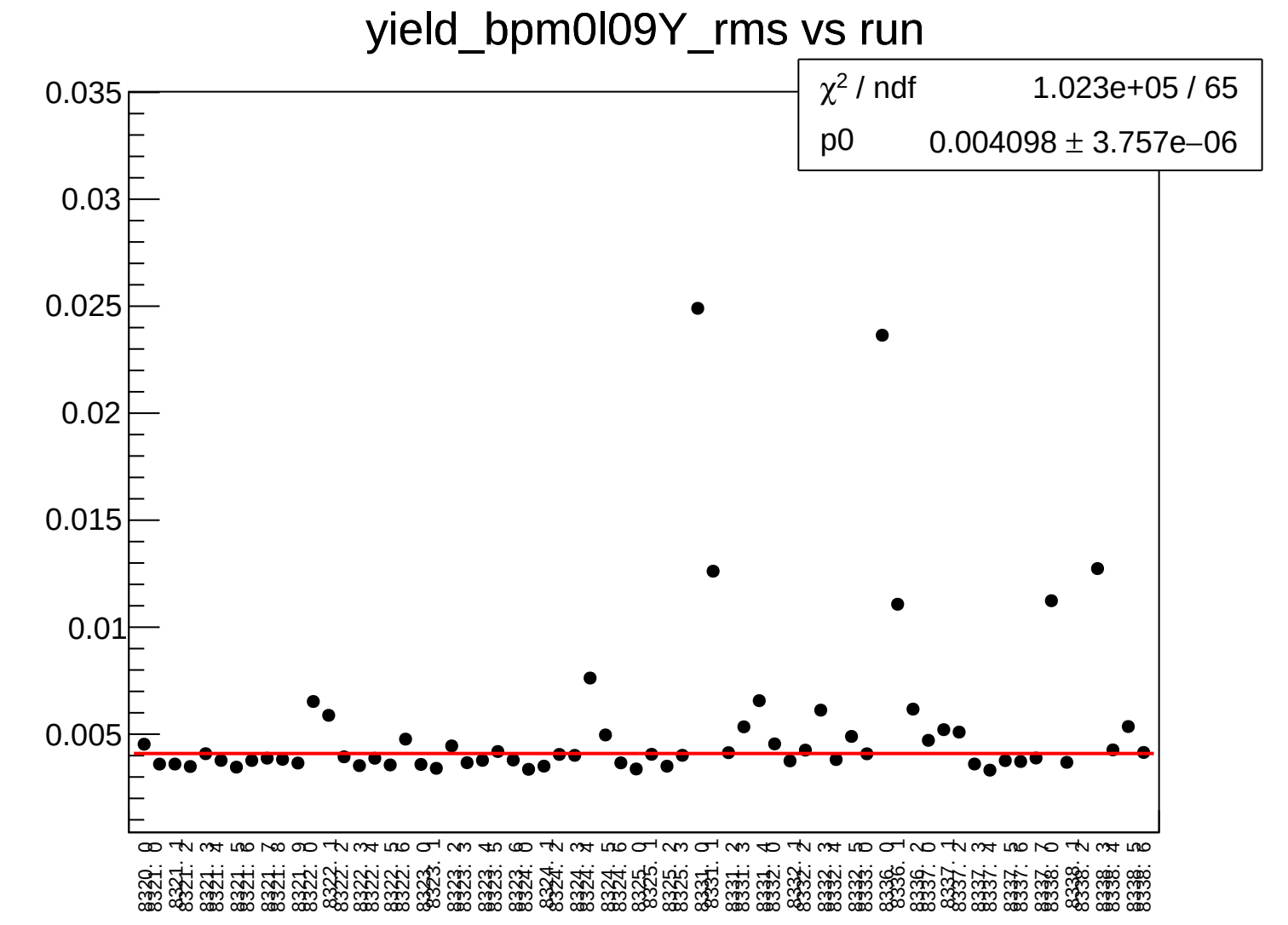

yield_bpm0l09X_mean vs run
χ² / ndf 5.182e+07 / 65
p0 0.4746 ± 2.041e−05
pull
Entries 66
Mean −5.497e+04
Std Dev 5.5e+04

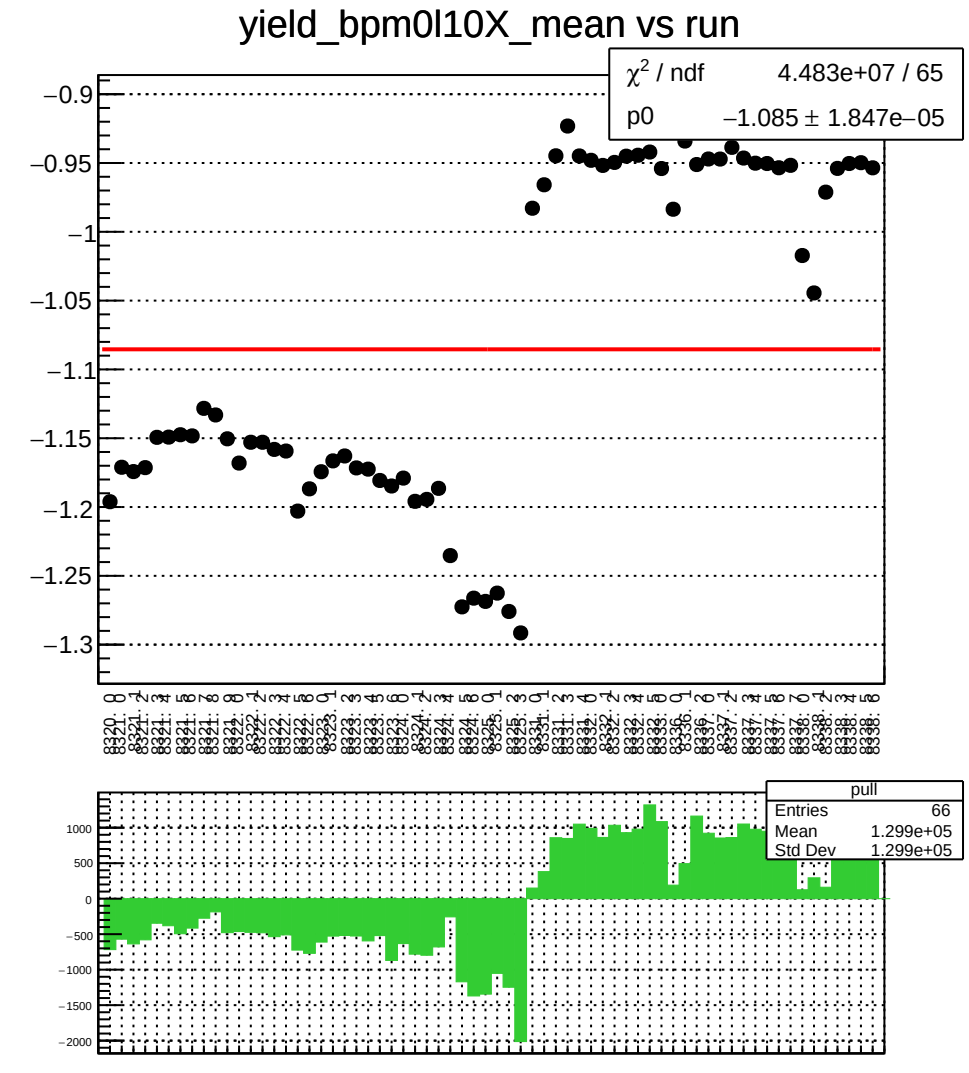

pull1D
Entries 66
Mean 0
Std Dev 0

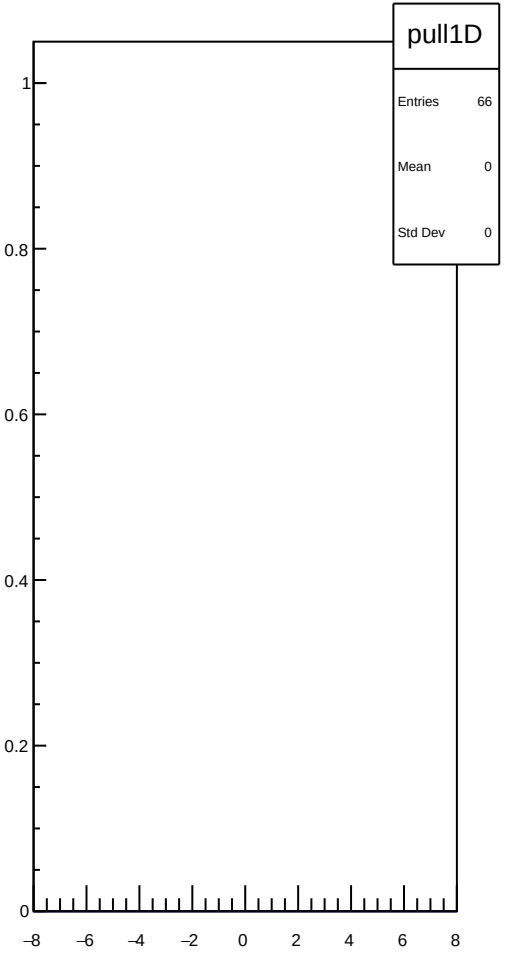

yield_bpm0l09X_rms vs run
χ² / ndf 7.597e+04 / 65
p0 0.01591 ± 1.443e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

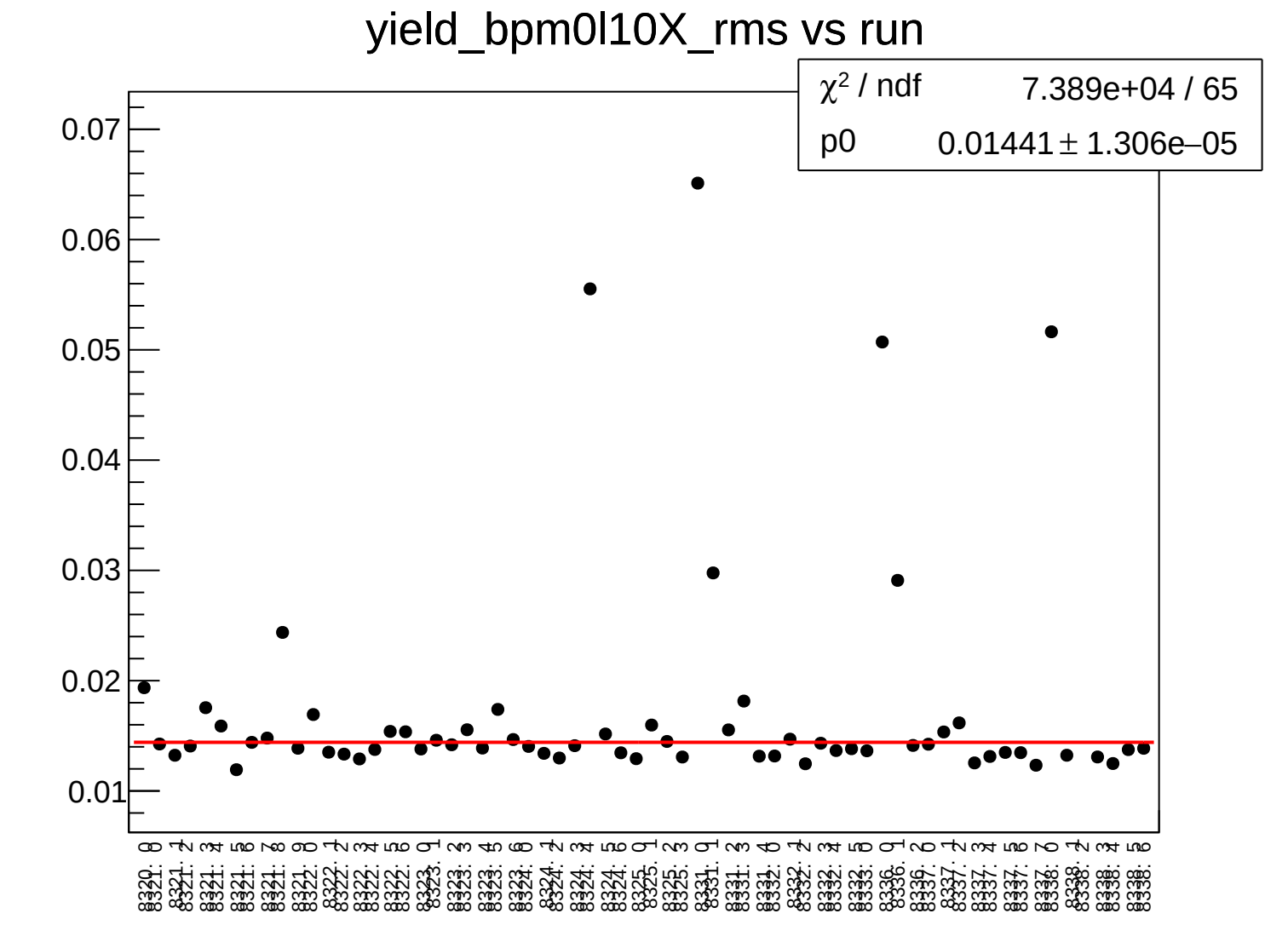

yield_bpm0l09Y_mean vs run
χ² / ndf 4.583e+08 / 65
p0 0.2277 ± 5.314e−06
0.4
0.35
0.3
0.25
0.2
0.15
pull
Entries 66
Mean 253.9
Std Dev 218.5
4000
3000
2000
1000
0
−1000
−2000
−3000

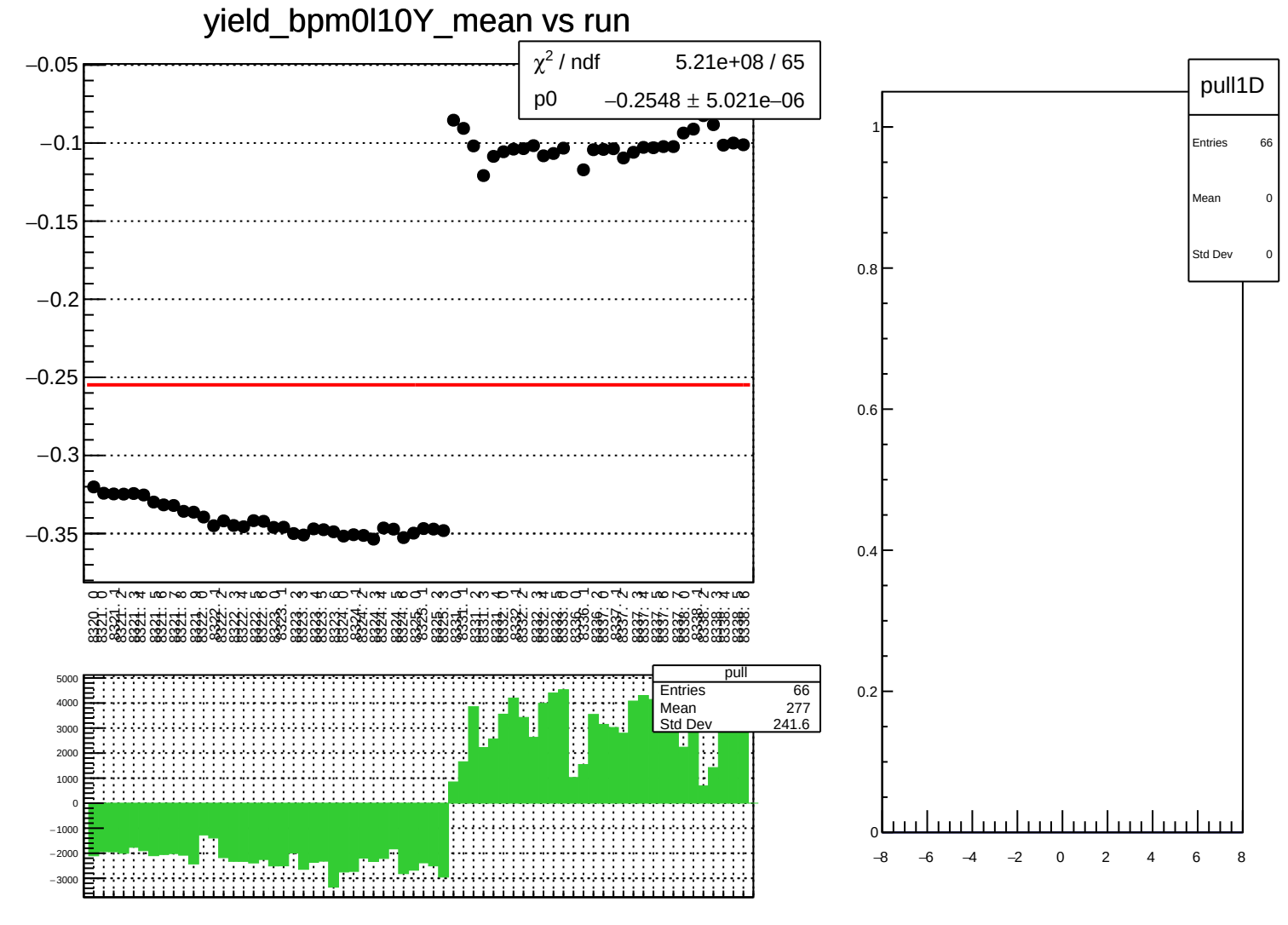

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

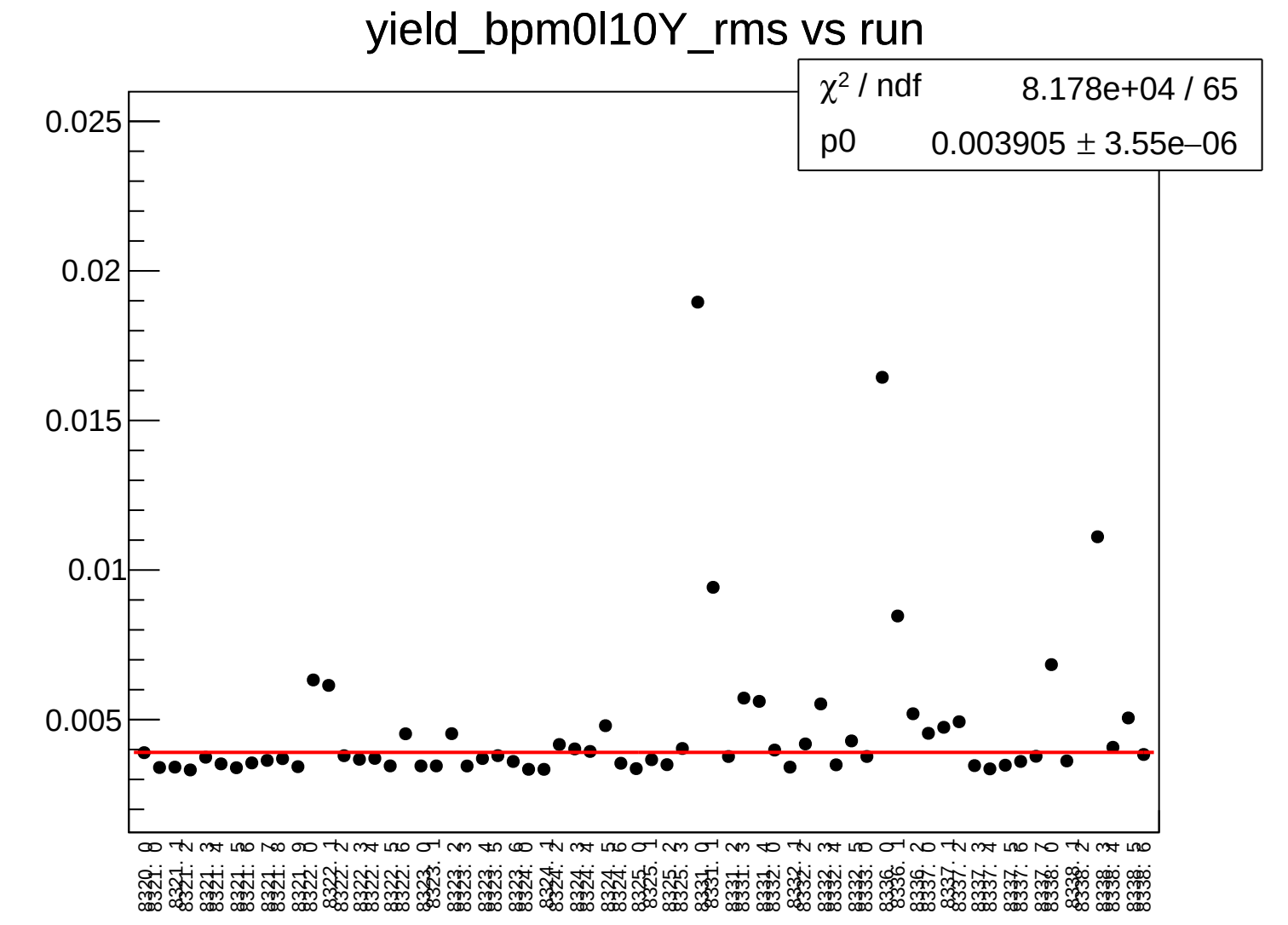

yield_bpm0l09Y_rms vs run
χ² / ndf 1.023e+05 / 65
p0 0.004098 ± 3.757e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

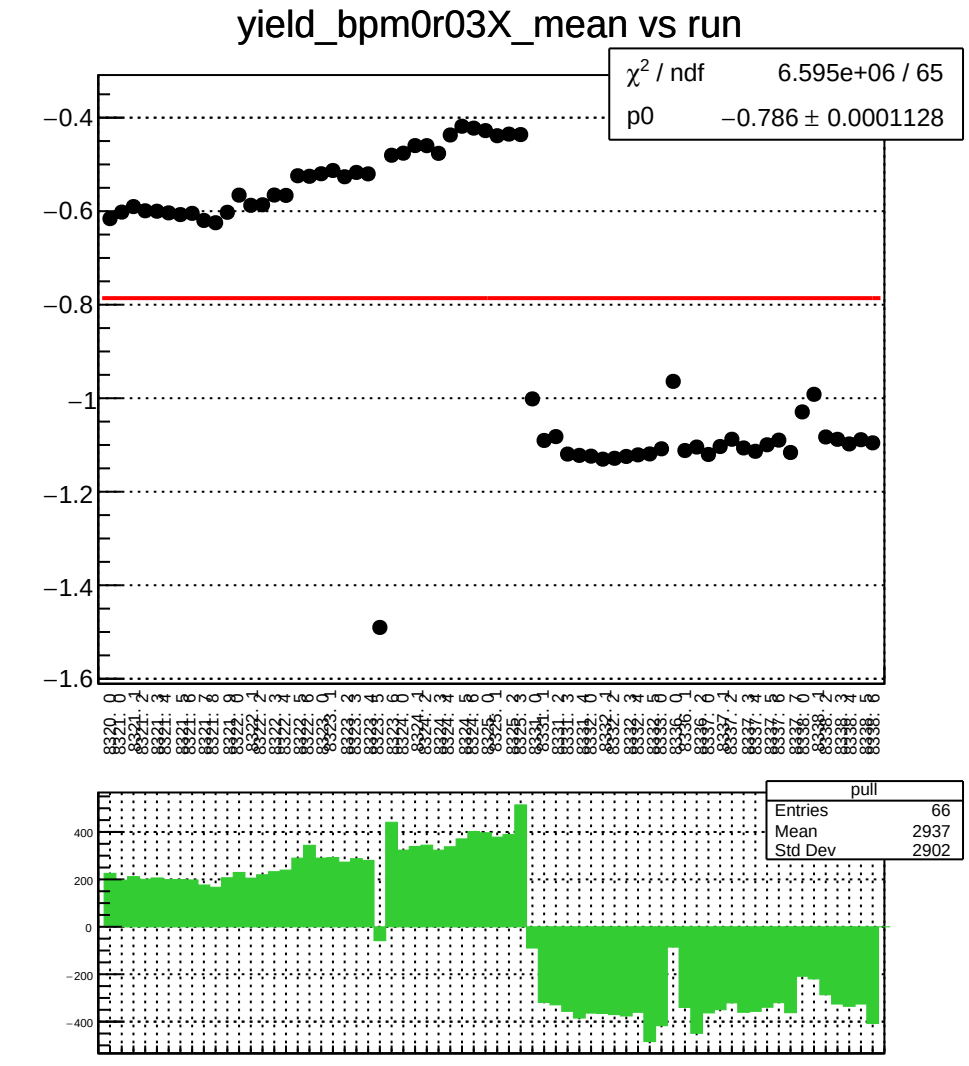

yield_bpm0l10X_mean vs run
χ² / ndf 4.483e+07 / 65
p0 −1.085 ± 1.847e−05
pull
Entries 66
Mean 1.299e+05
Std Dev 1.299e+05

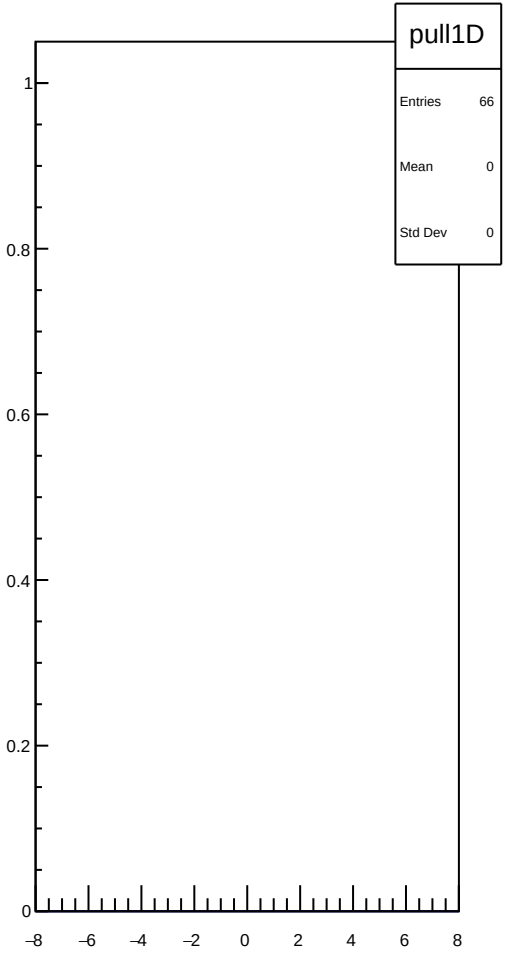

pull1D
Entries 66
Mean 0
Std Dev 0

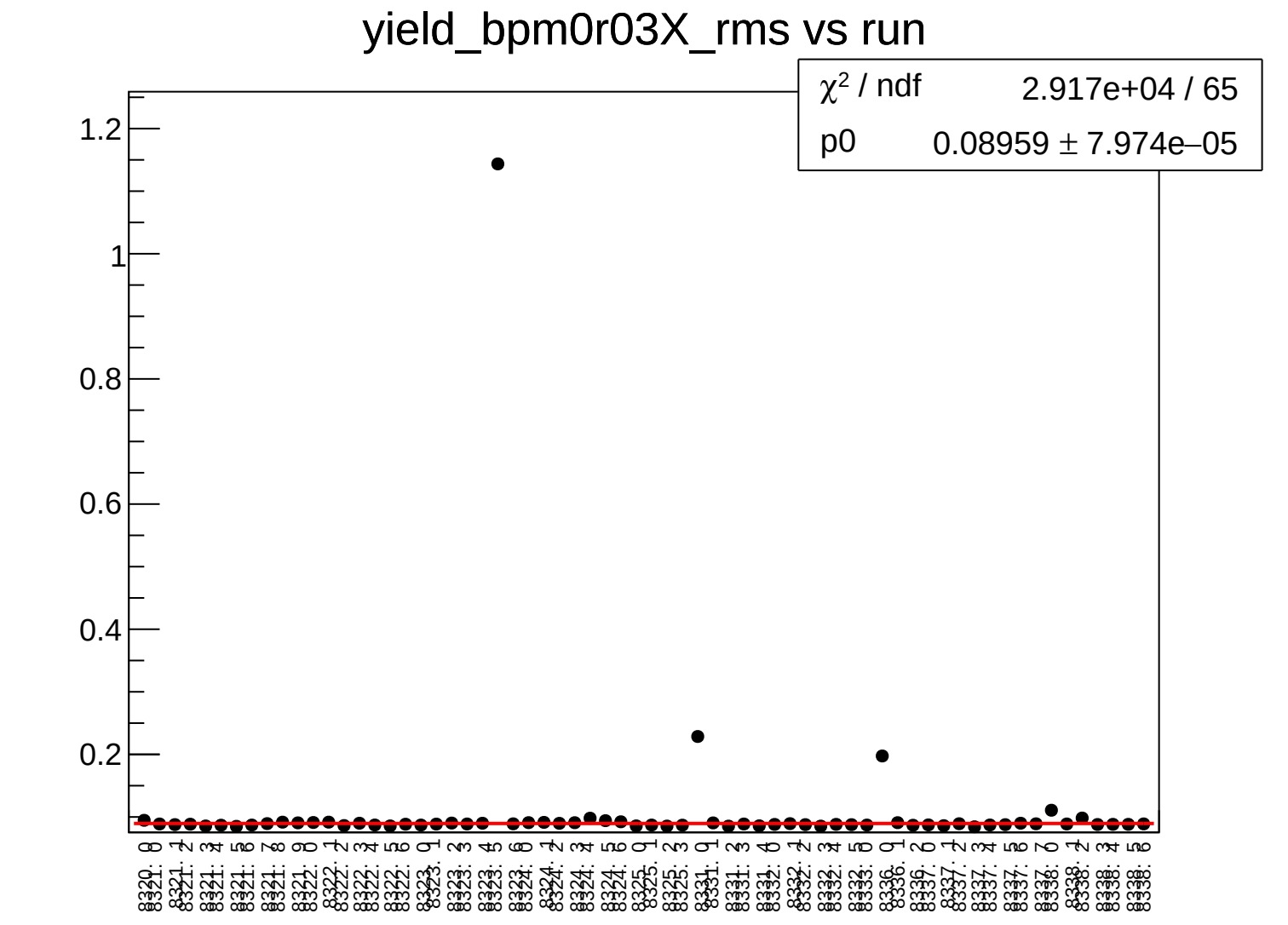

yield_bpm0l10X_rms vs run
χ² / ndf 7.389e+04 / 65
p0 0.01441 ± 1.306e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

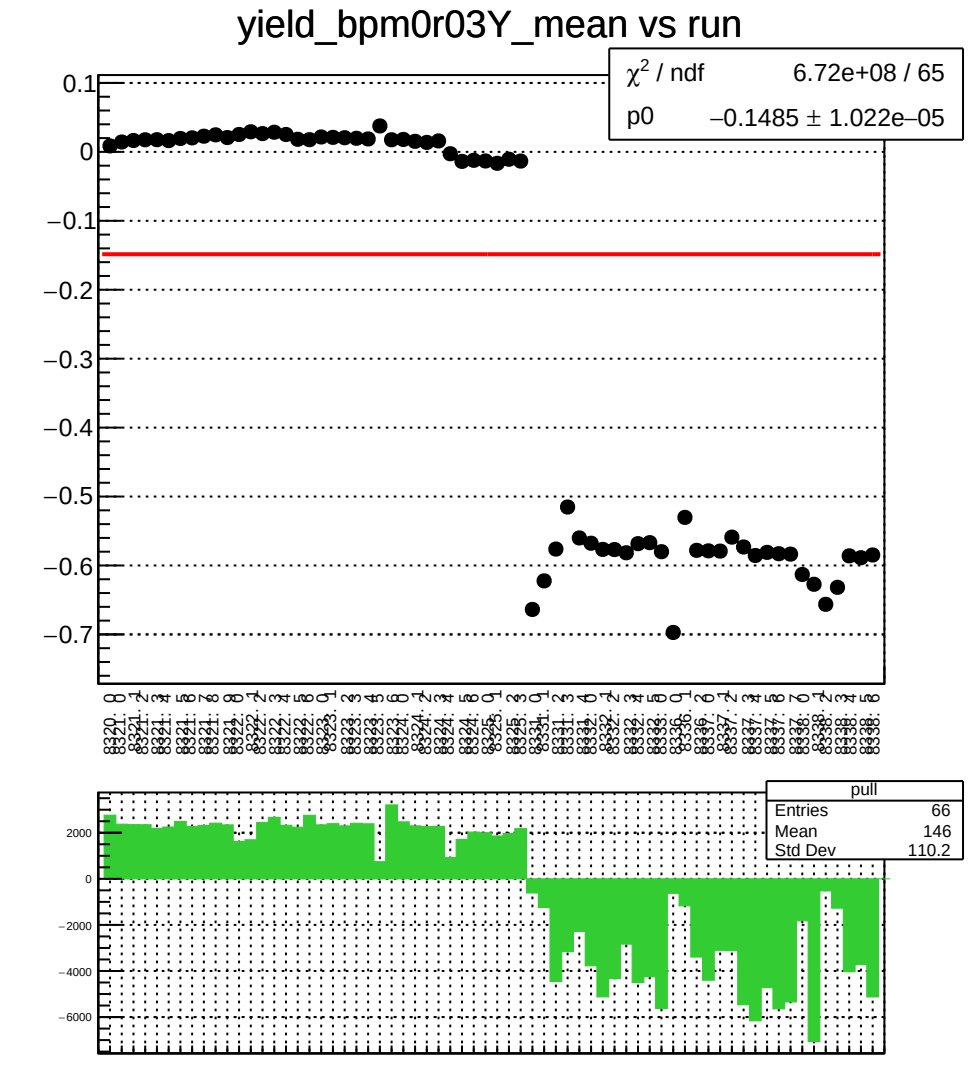

yield_bpm0l10Y_mean vs run
χ² / ndf 5.21e+08 / 65
p0 −0.2548 ± 5.021e−06
pull
Entries 66
Mean 277
Std Dev 241.6
pull1D
Entries 66
Mean 0
Std Dev 0

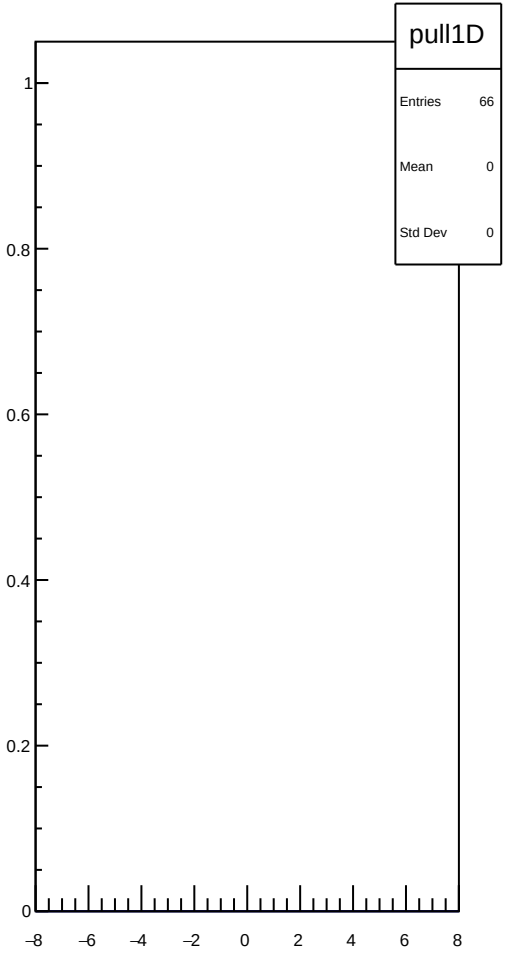

yield_bpm0l10Y_rms vs run
χ² / ndf 8.178e+04 / 65
p0 0.003905 ± 3.55e−06
0.025
0.02
0.015
0.01
0.005

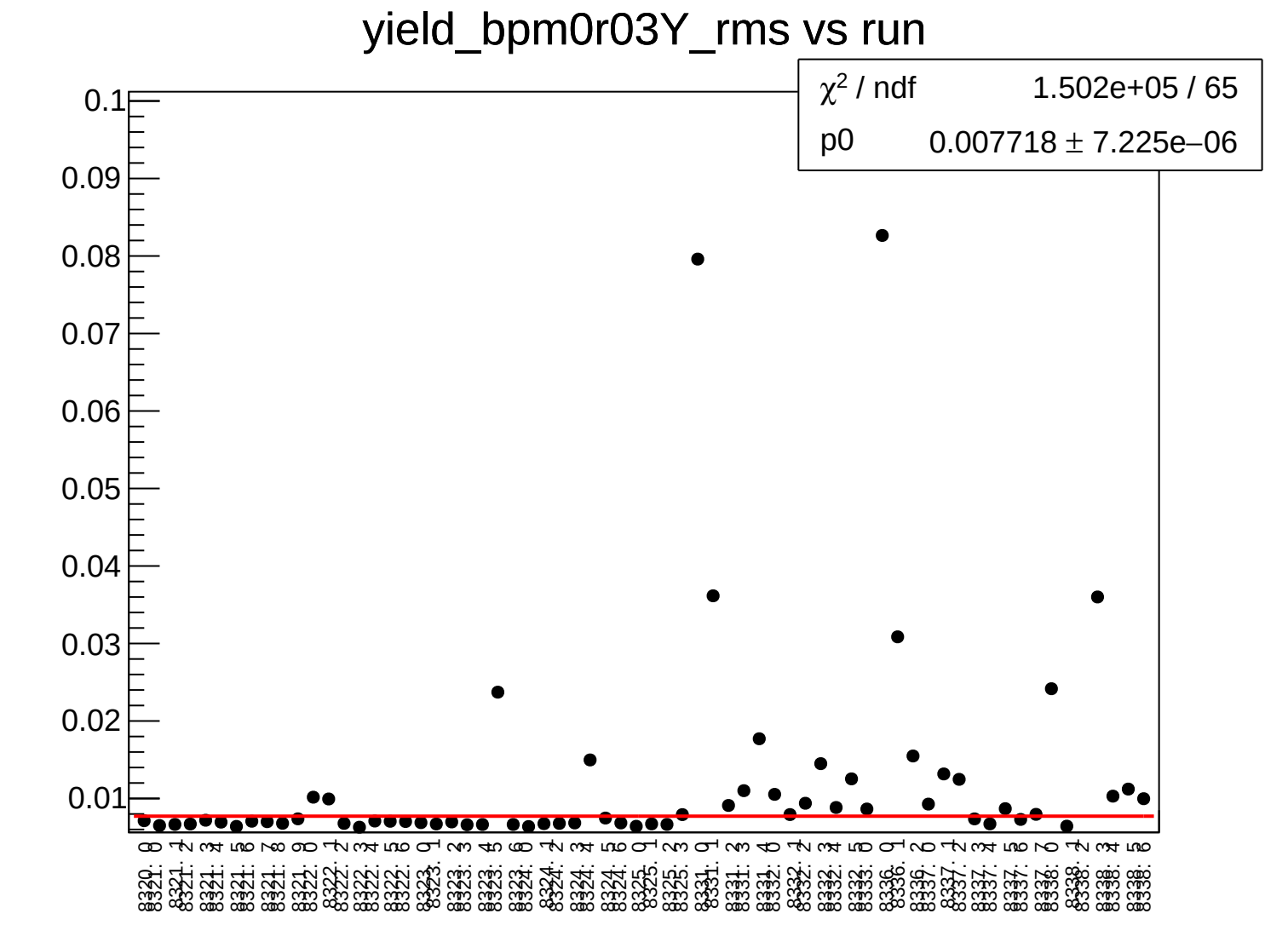

yield_bpm0r03X_mean vs run
χ² / ndf 6.595e+06 / 65
p0 −0.786 ± 0.0001128
pull
Entries 66
Mean 2937
Std Dev 2902

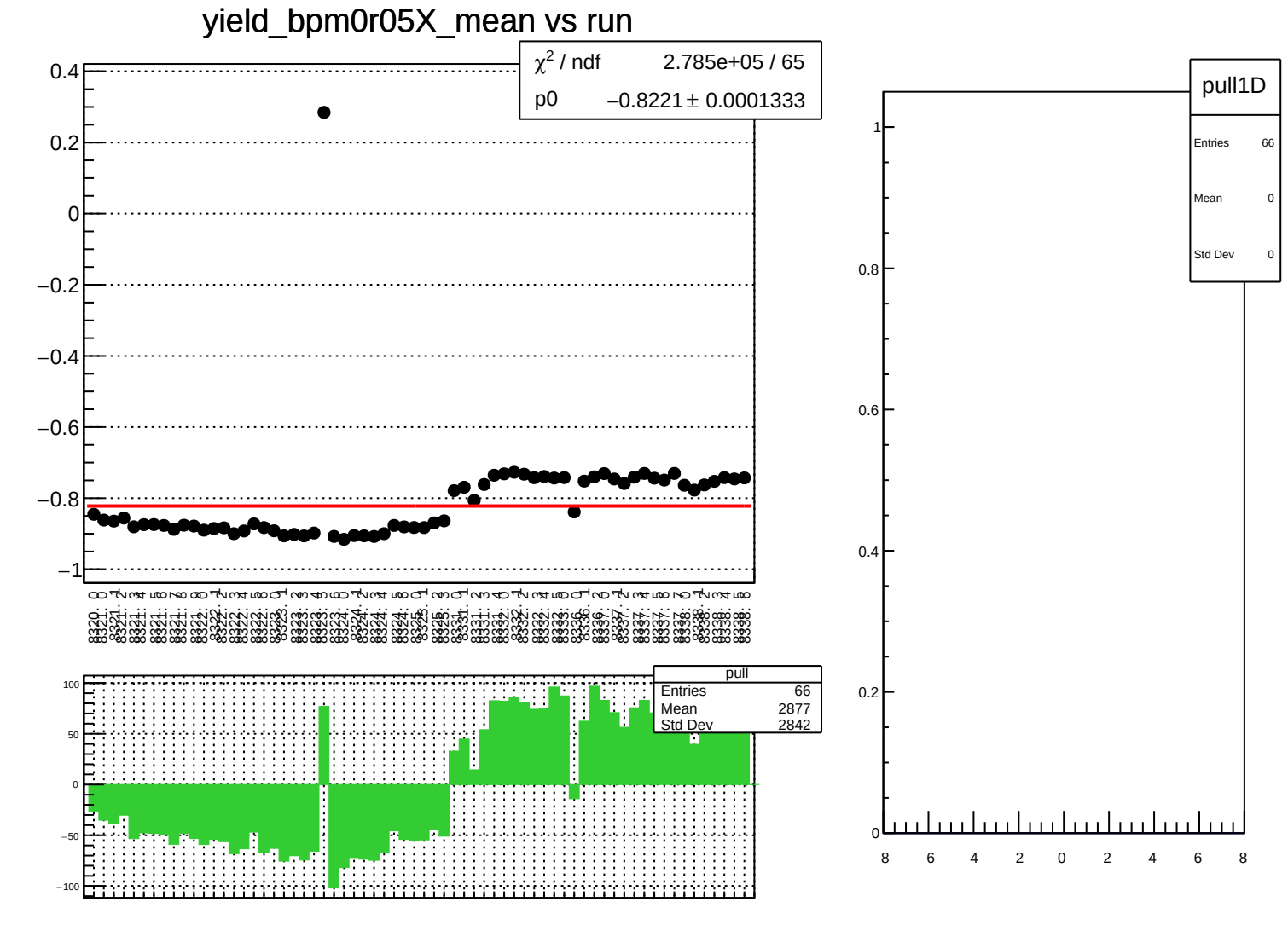

pull1D
Entries 66
Mean 0
Std Dev 0

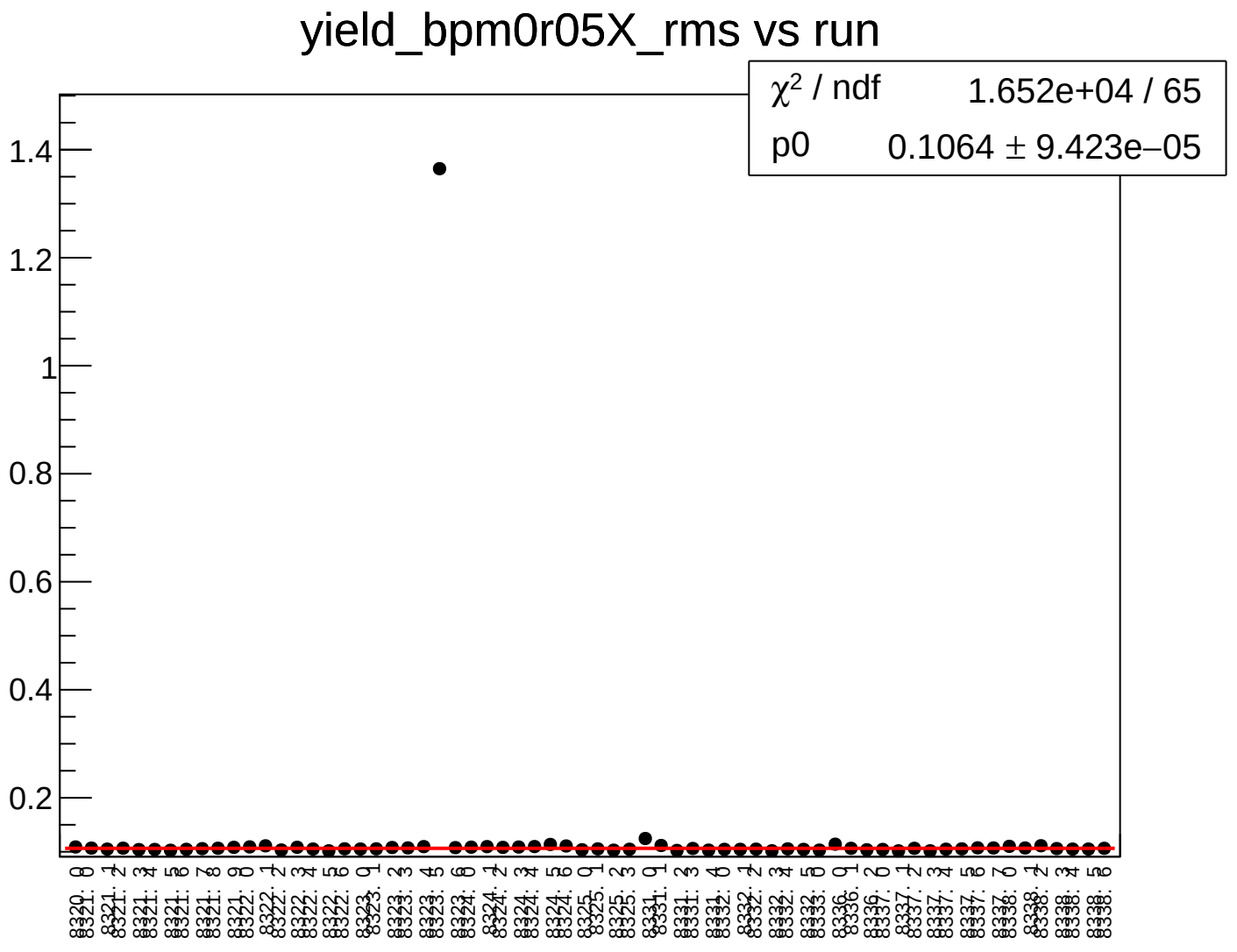

yield_bpm0r03X_rms vs run
χ² / ndf 2.917e+04 / 65
p0 0.08959 ± 7.974e−05
1.2
1
0.8
0.6
0.4
0.2

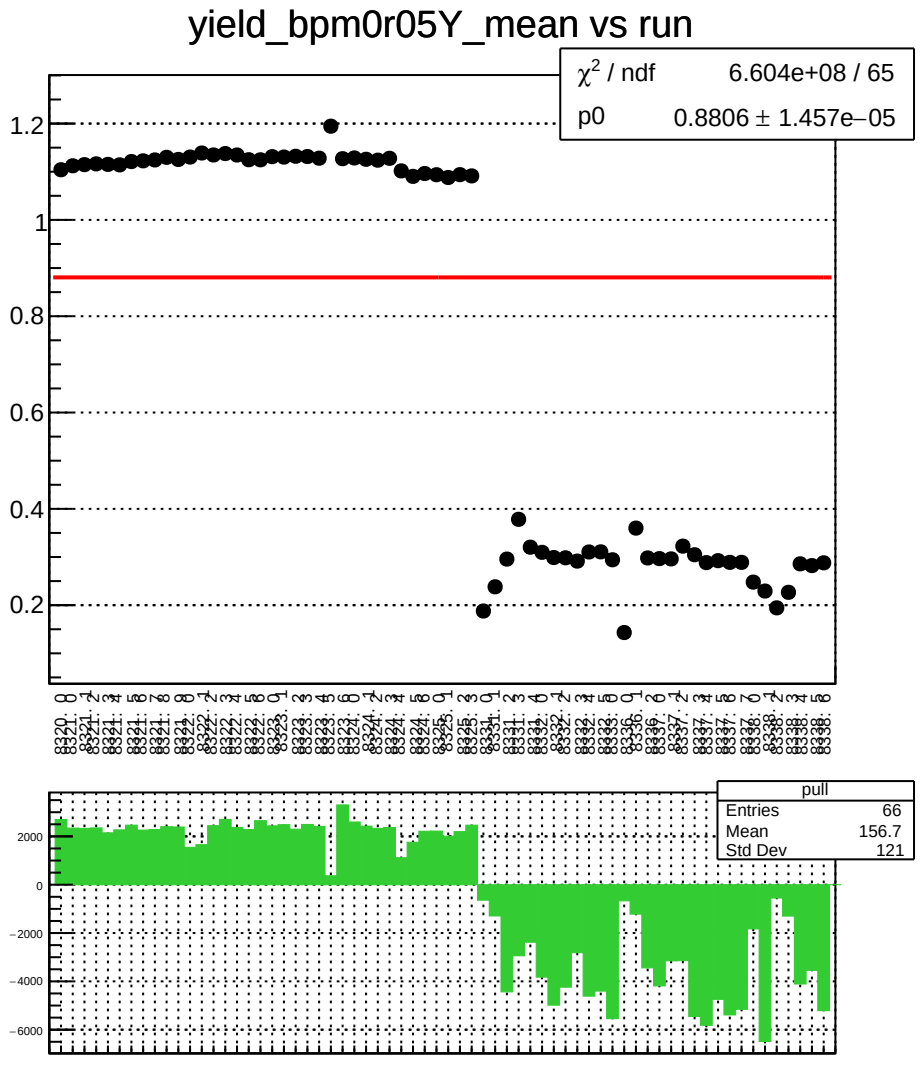

yield_bpm0r03Y_mean vs run
χ² / ndf 6.72e+08 / 65
p0 −0.1485 ± 1.022e−05
pull
Entries 66
Mean 146
Std Dev 110.2

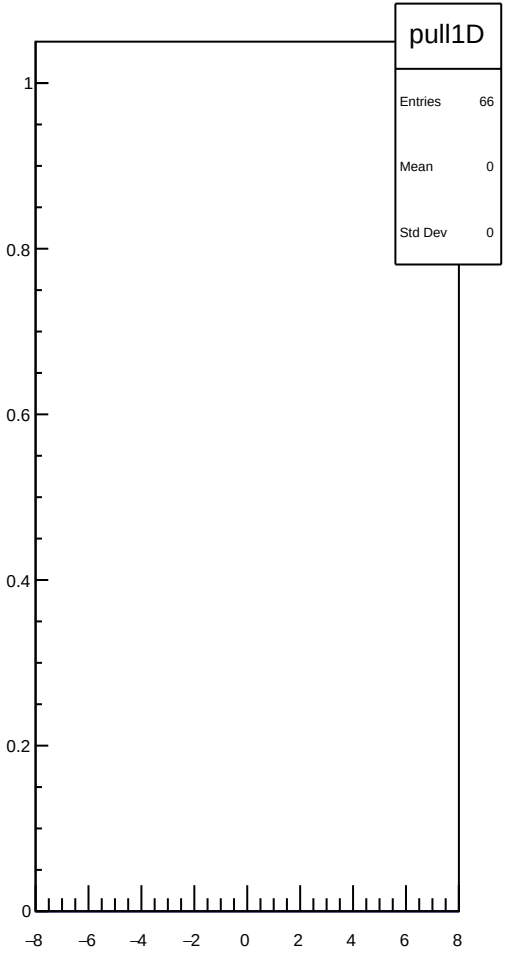

pull1D
Entries 66
Mean 0
Std Dev 0

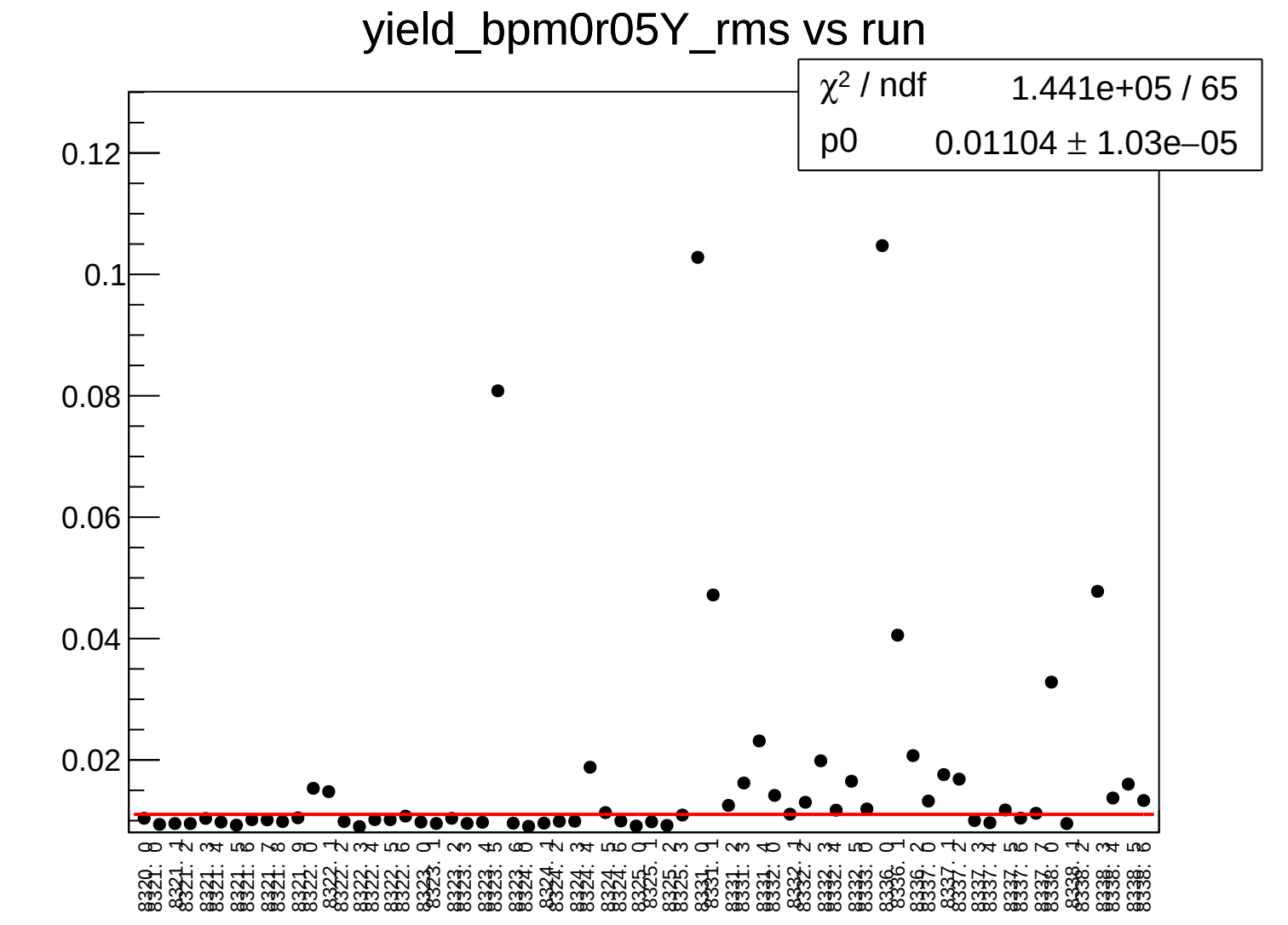

yield_bpm0r03Y_rms vs run
χ² / ndf 1.502e+05 / 65
p0 0.007718 ± 7.225e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

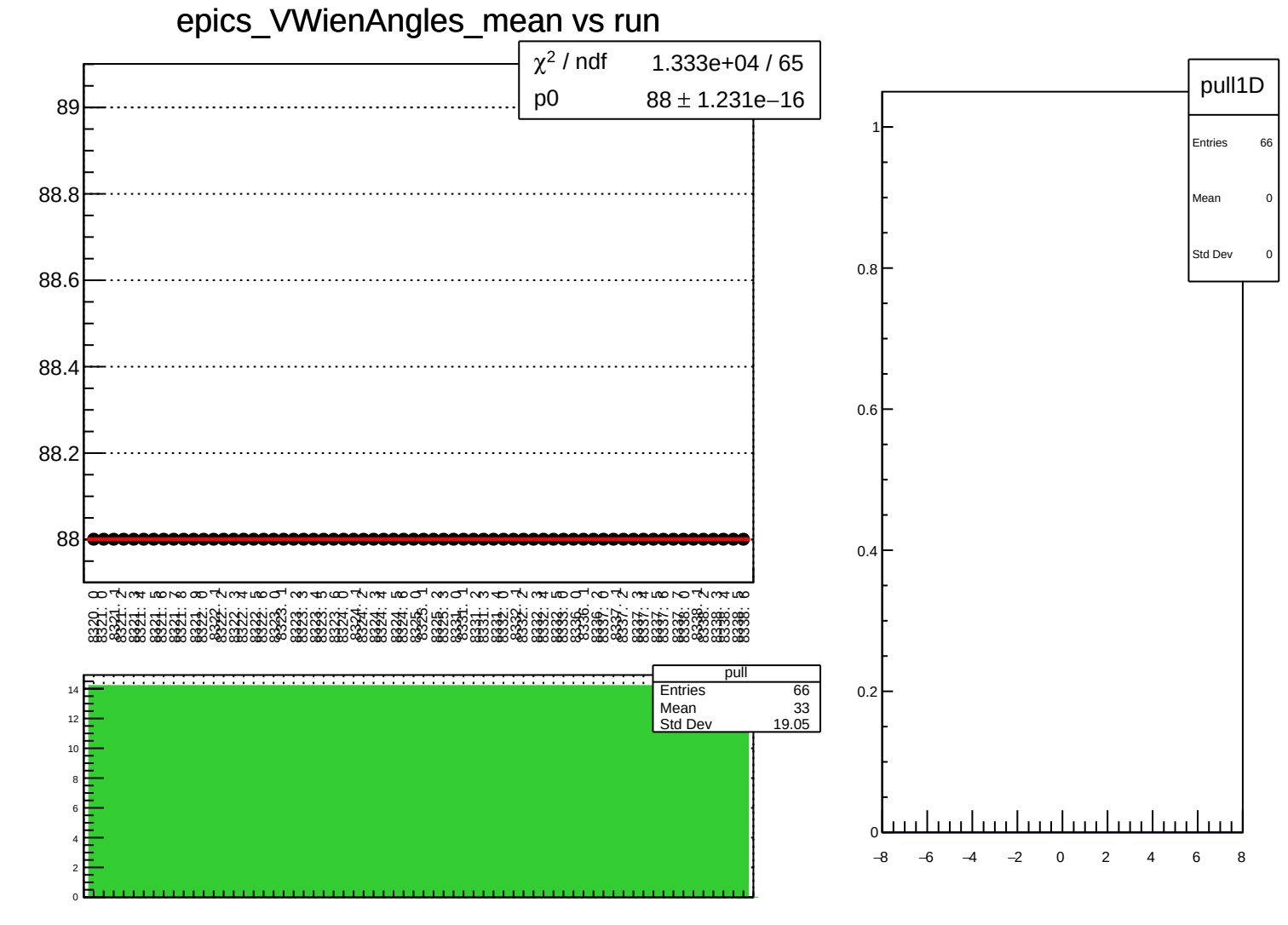

yield_bpm0r05X_mean vs run
χ² / ndf 2.785e+05 / 65
p0 −0.8221 ± 0.0001333
pull
Entries 66
Mean 2877
Std Dev 2842
pull1D
Entries 66
Mean 0
Std Dev 0

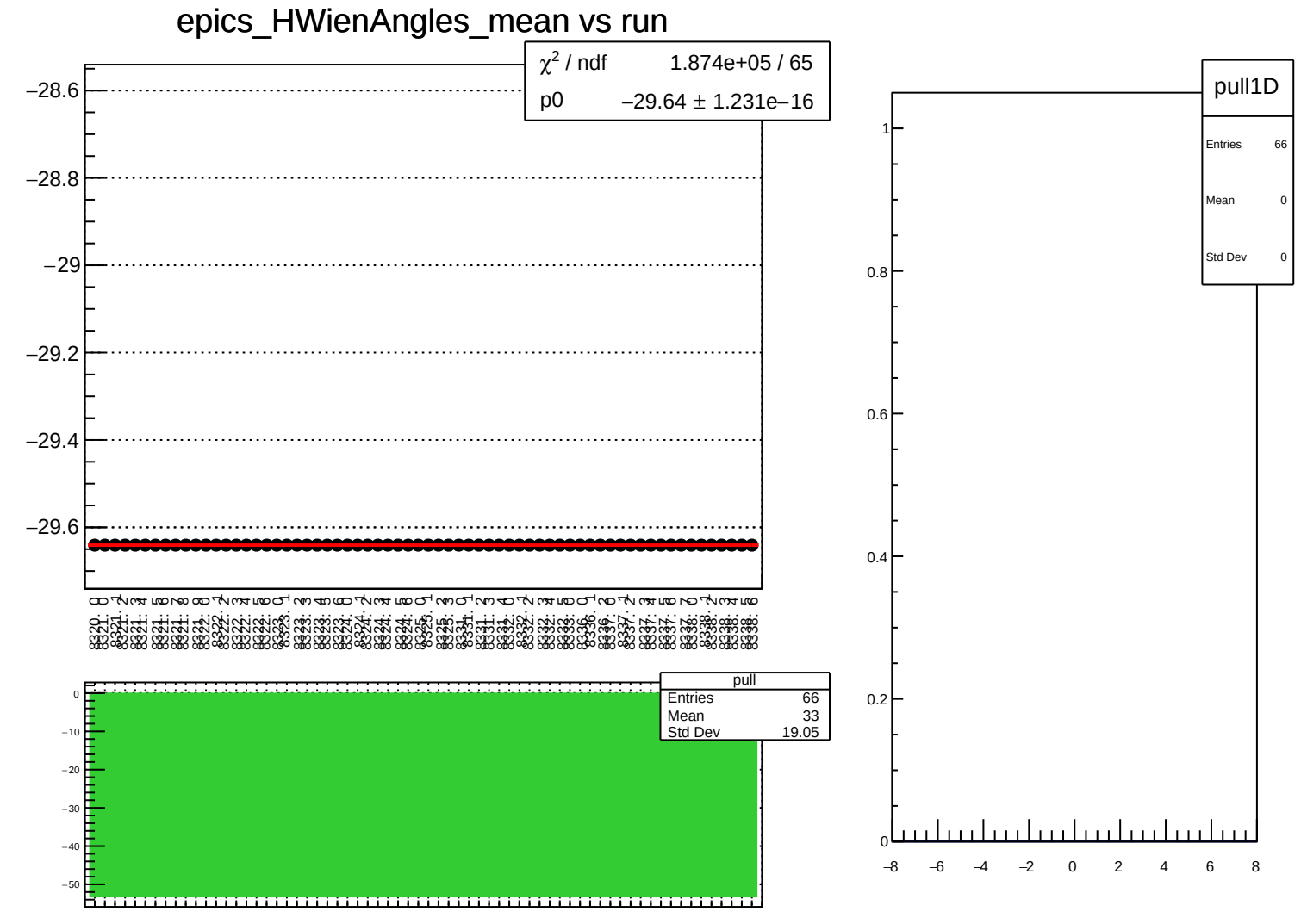

yield_bpm0r05X_rms vs run
χ² / ndf 1.652e+04 / 65
p0 0.1064 ± 9.423e−05
1.4
1.2
1
0.8
0.6
0.4
0.2

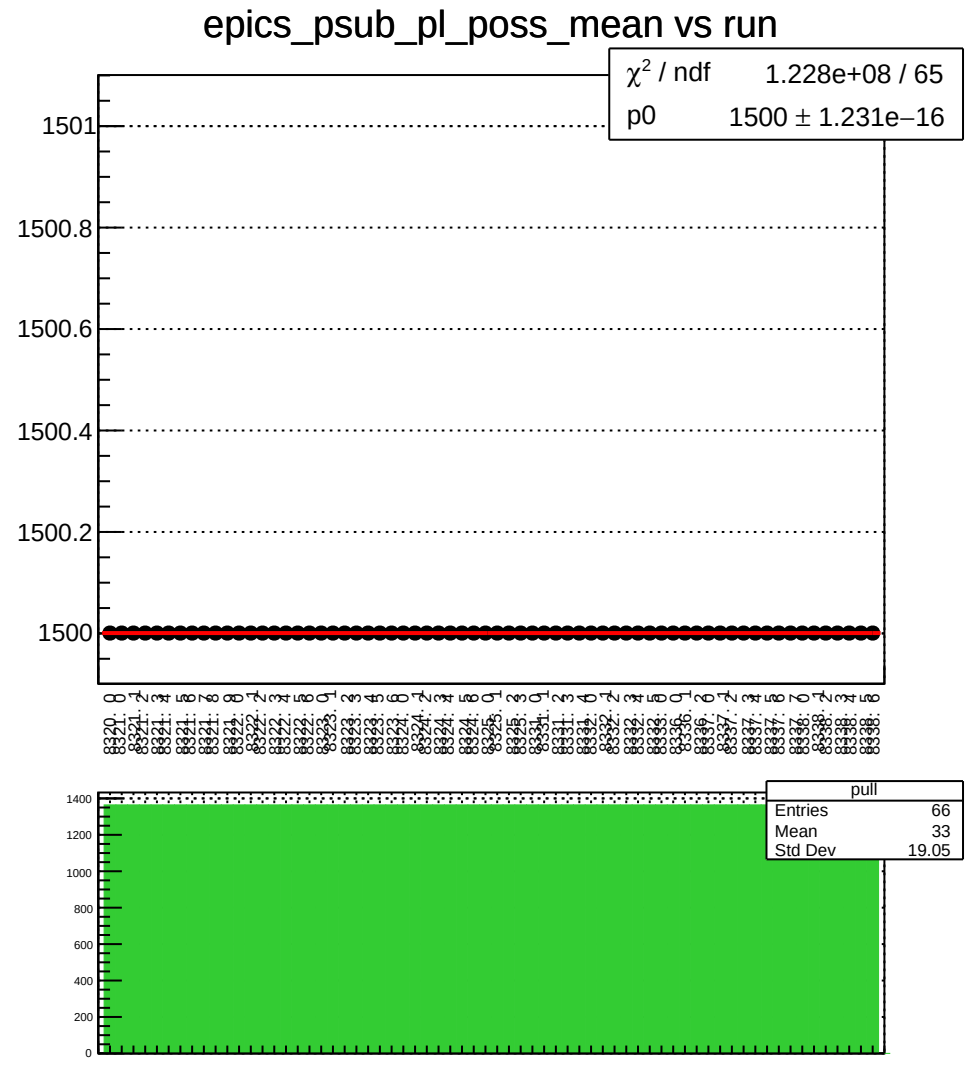

yield_bpm0r05Y_mean vs run
χ² / ndf 6.604e+08 / 65
p0 0.8806 ± 1.457e−05
1.2
1
0.8
0.6
0.4
0.2
pull
Entries 66
Mean 156.7
Std Dev 121
2000
0
−2000
−4000
−6000

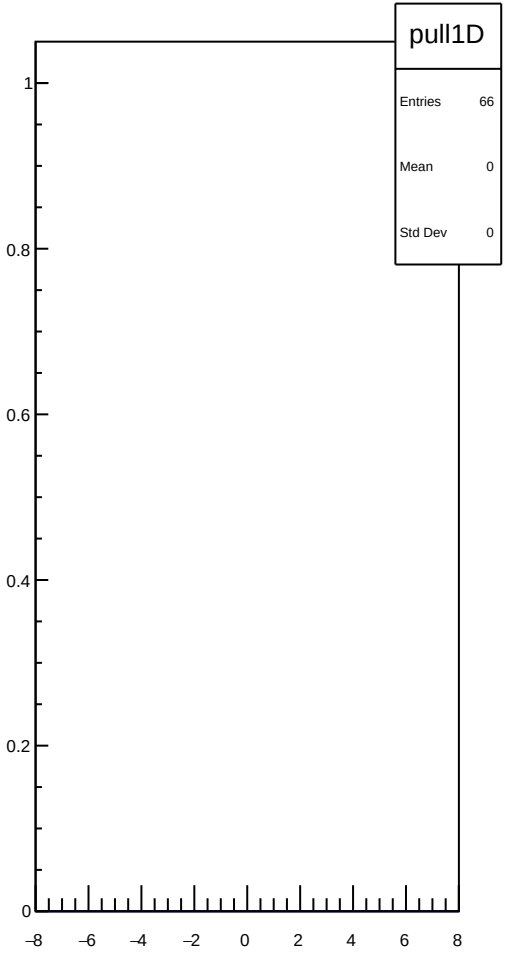

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

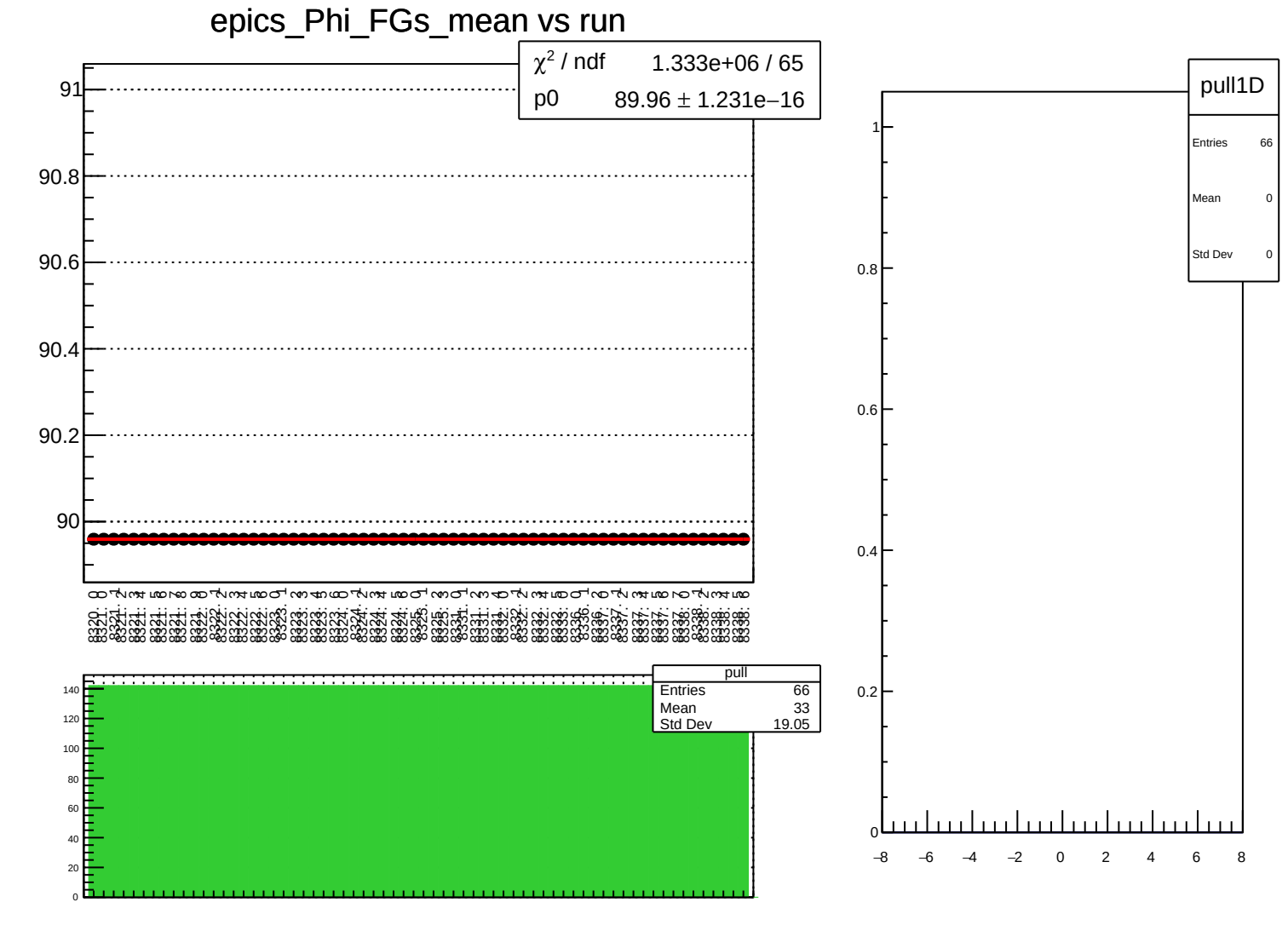

yield_bpm0r05Y_rms vs run
χ² / ndf 1.441e+05 / 65
p0 0.01104 ± 1.03e−05
0.12
0.1
0.08
0.06
0.04
0.02

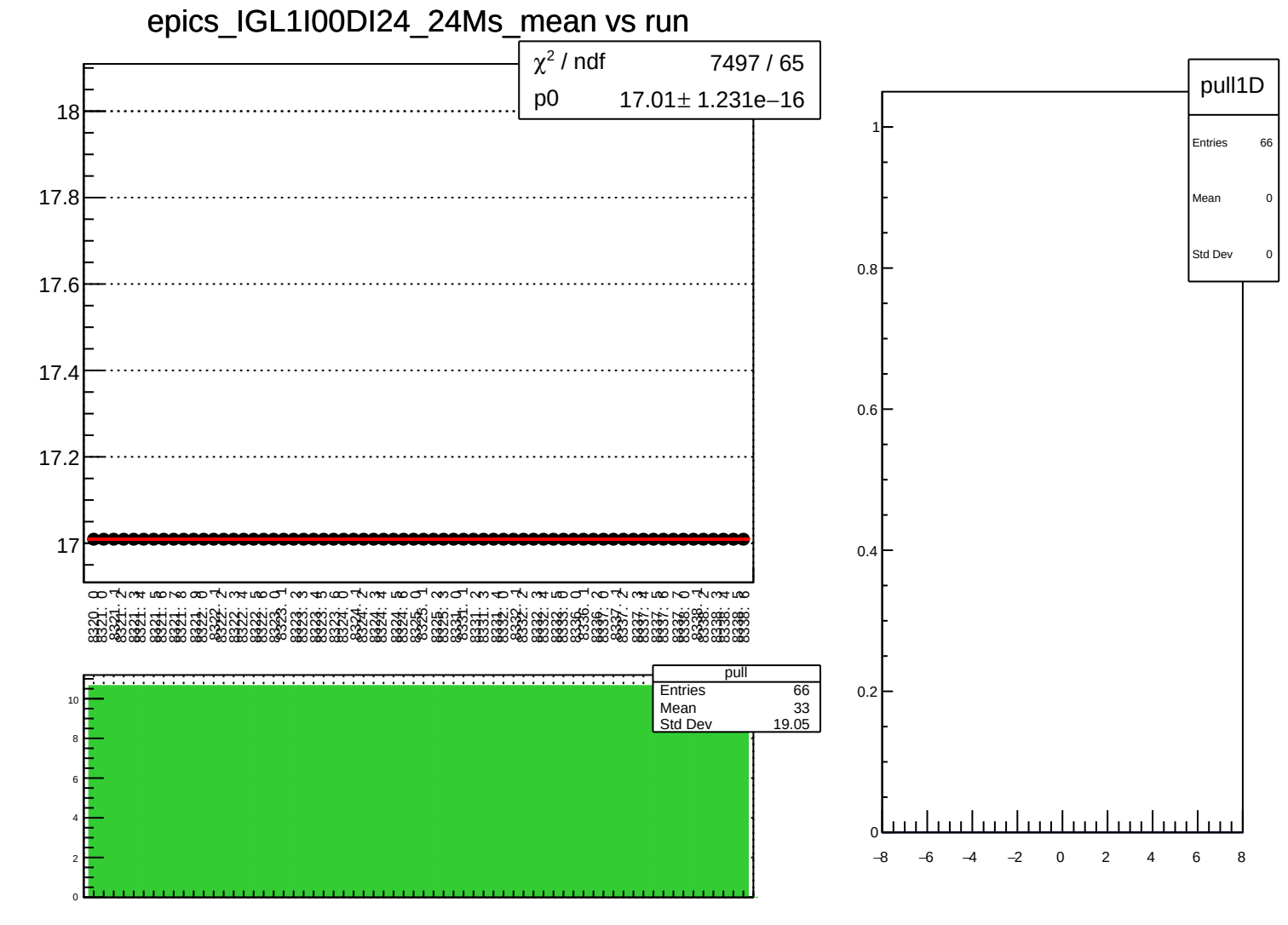

epics_VWienAngles_mean vs run
χ² / ndf 1.333e+04 / 65
p0 88 ± 1.231e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 66
Mean 33
Std Dev 19.05
14
12
10
8
6
4
2
0
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

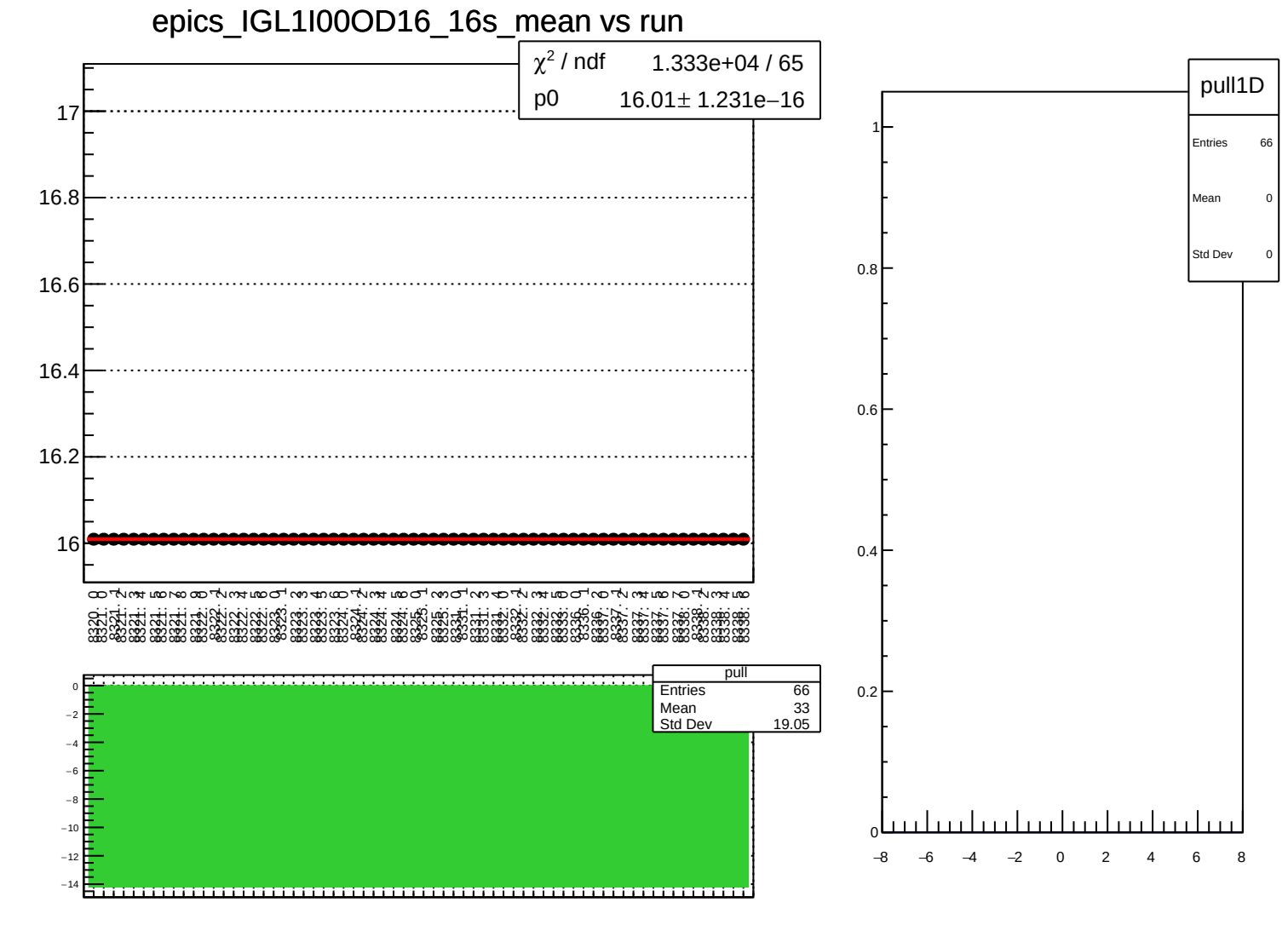

epics_HWienAngles_mean vs run
χ² / ndf 1.874e+05 / 65
p0 −29.64 ± 1.231e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 66
Mean 33
Std Dev 19.05
0
−10
−20
−30
−40
−50
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

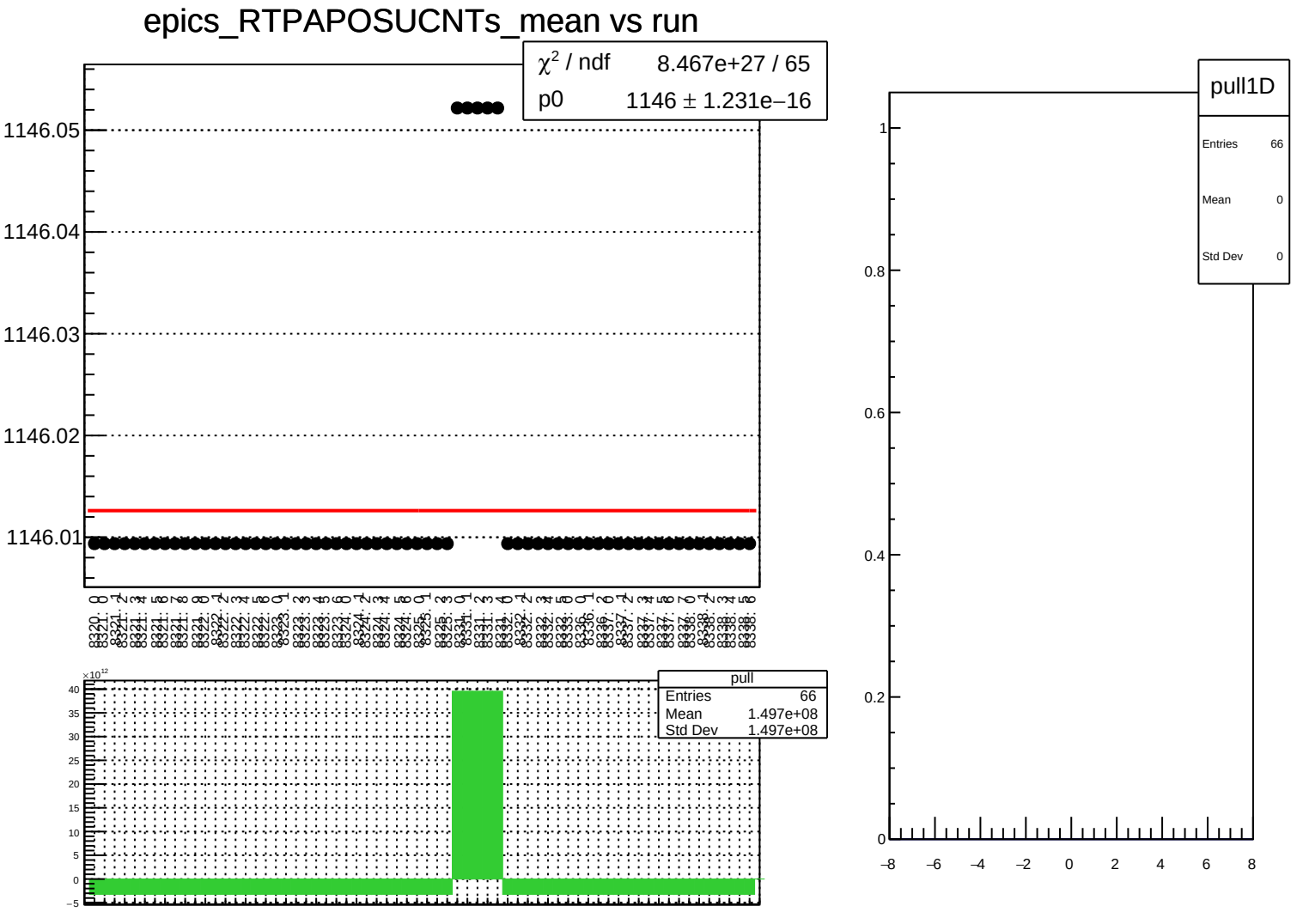

epics_psub_pl_poss_mean vs run
χ² / ndf 1.228e+08 / 65
p0 1500 ± 1.231e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 66
Mean 33
Std Dev 19.05
1400
1200
1000
800
600
400
200
0

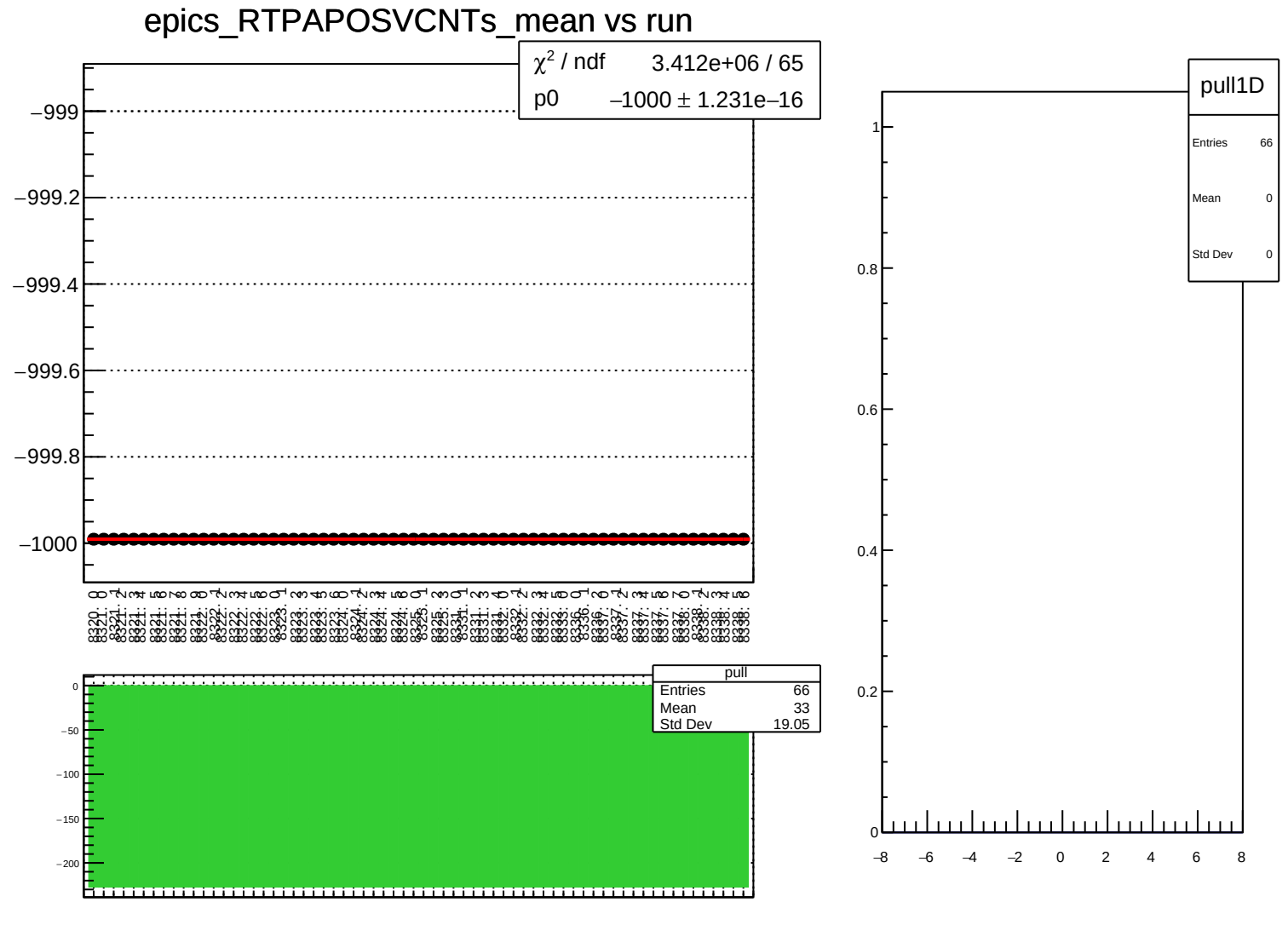

pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

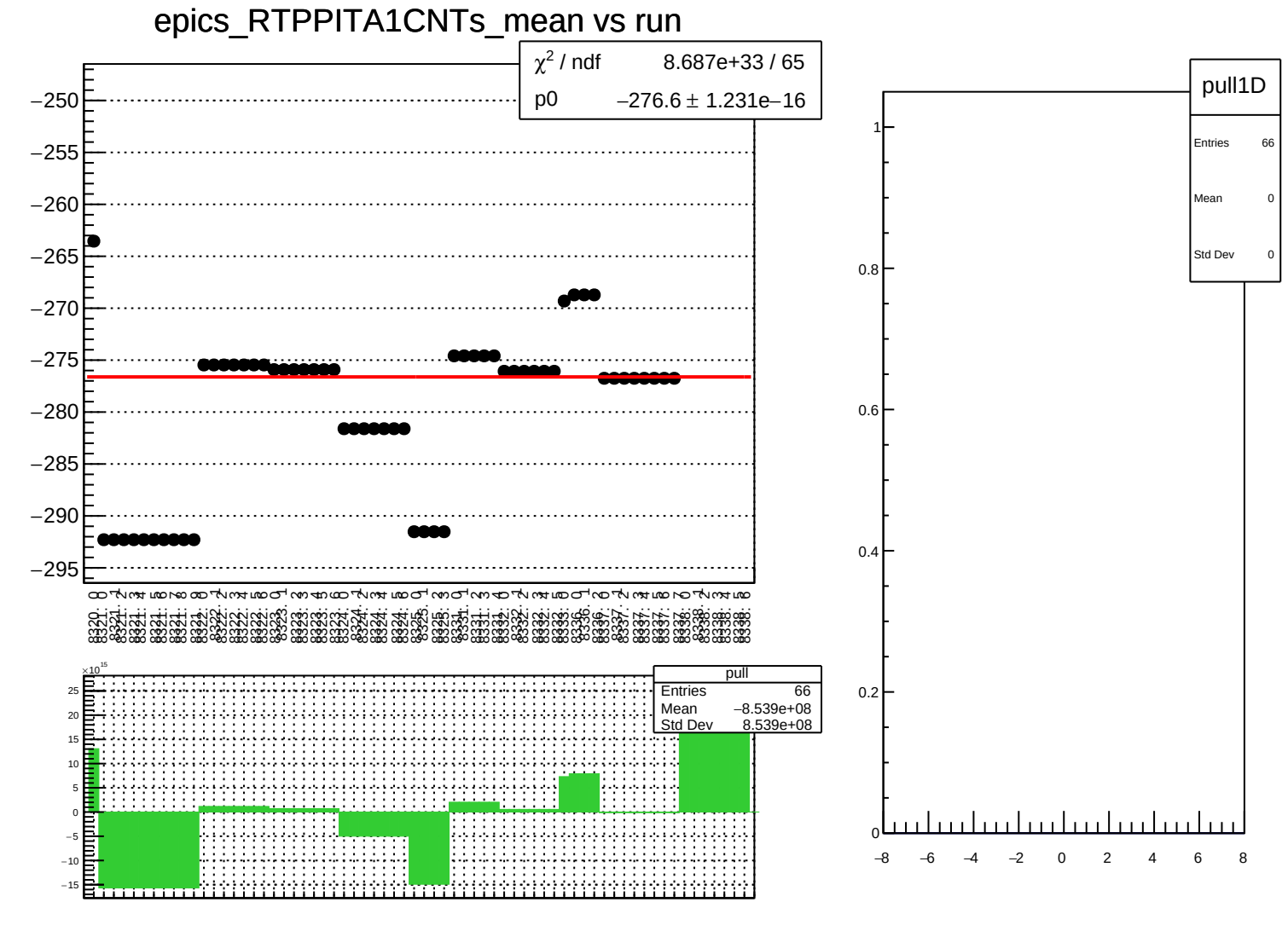

epics_Phi_FGs_mean vs run
χ² / ndf 1.333e+06 / 65
p0 89.96 ± 1.231e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 66
Mean 33
Std Dev 19.05
140
120
100
80
60
40
20
0
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

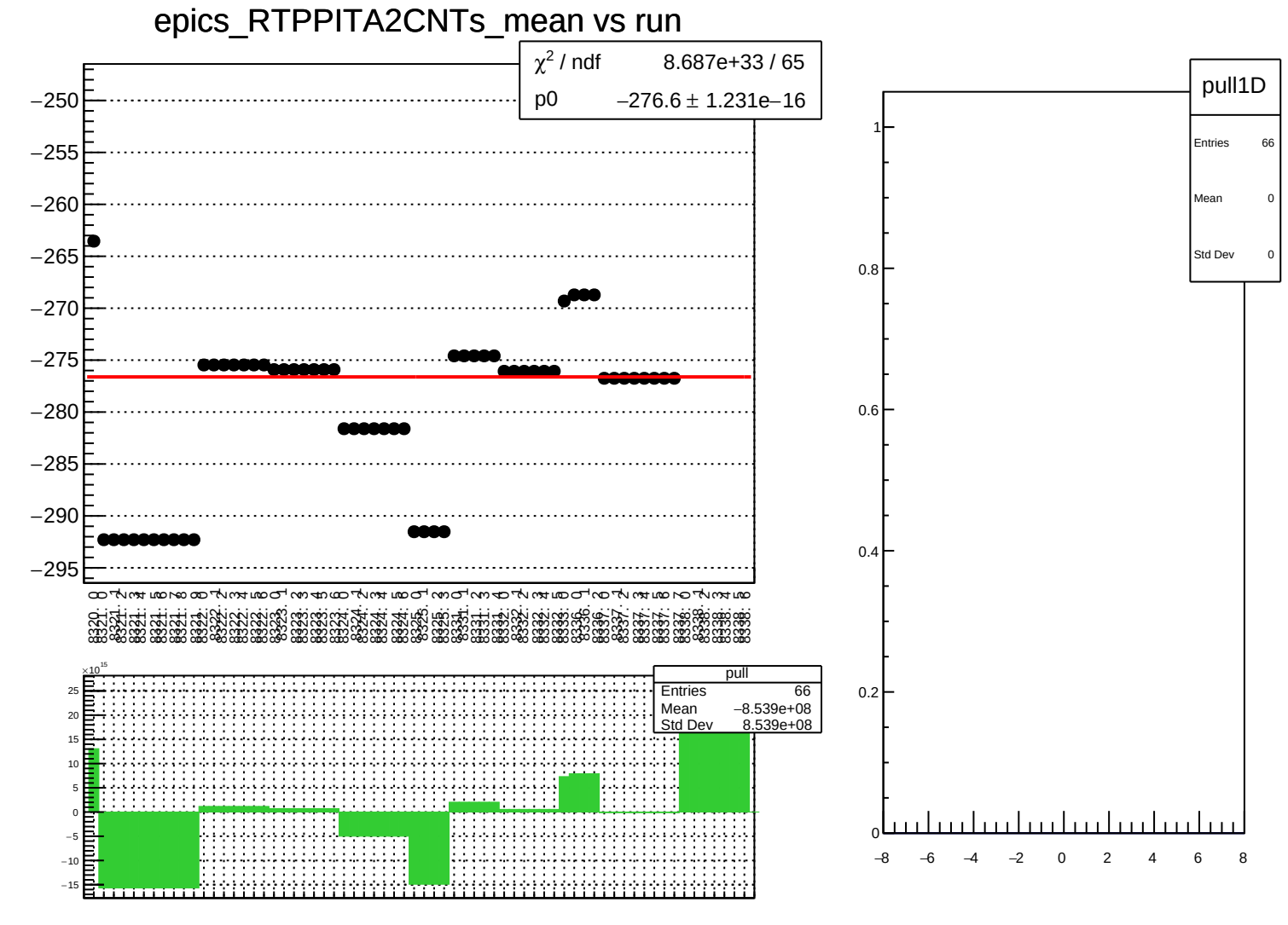

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 7497 / 65
p0 17.01± 1.231e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 66
Mean 33
Std Dev 19.05
10
8
6
4
2
0
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 1.333e+04 / 65
p0 16.01± 1.231e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 66
Mean 33
Std Dev 19.05
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 8.467e+27 / 65
p0 1146 ± 1.231e−16
1146.05
1146.04
1146.03
1146.02
1146.01
pull
Entries 66
Mean 1.497e+08
Std Dev 1.497e+08
×10¹²
40
35
30
25
20
15
10
5
0
−5
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 3.412e+06 / 65
p0 −1000 ± 1.231e−16
−999
−999.2
−999.4
−999.6
−999.8
−1000
pull
Entries 66
Mean 33
Std Dev 19.05
0
−50
−100
−150
−200
pull1D
Entries 66
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPPITA1CNTs_mean vs run
χ² / ndf 8.687e+33 / 65
p0 −276.6 ± 1.231e−16
pull
Entries 66
Mean −8.539e+08
Std Dev 8.539e+08
pull1D
Entries 66
Mean 0
Std Dev 0


epics_RTPPITA2CNTs_mean vs run
χ² / ndf 8.687e+33 / 65
p0 −276.6 ± 1.231e−16
pull
Entries 66
Mean −8.539e+08
Std Dev 8.539e+08
pull1D
Entries 66
Mean 0
Std Dev 0