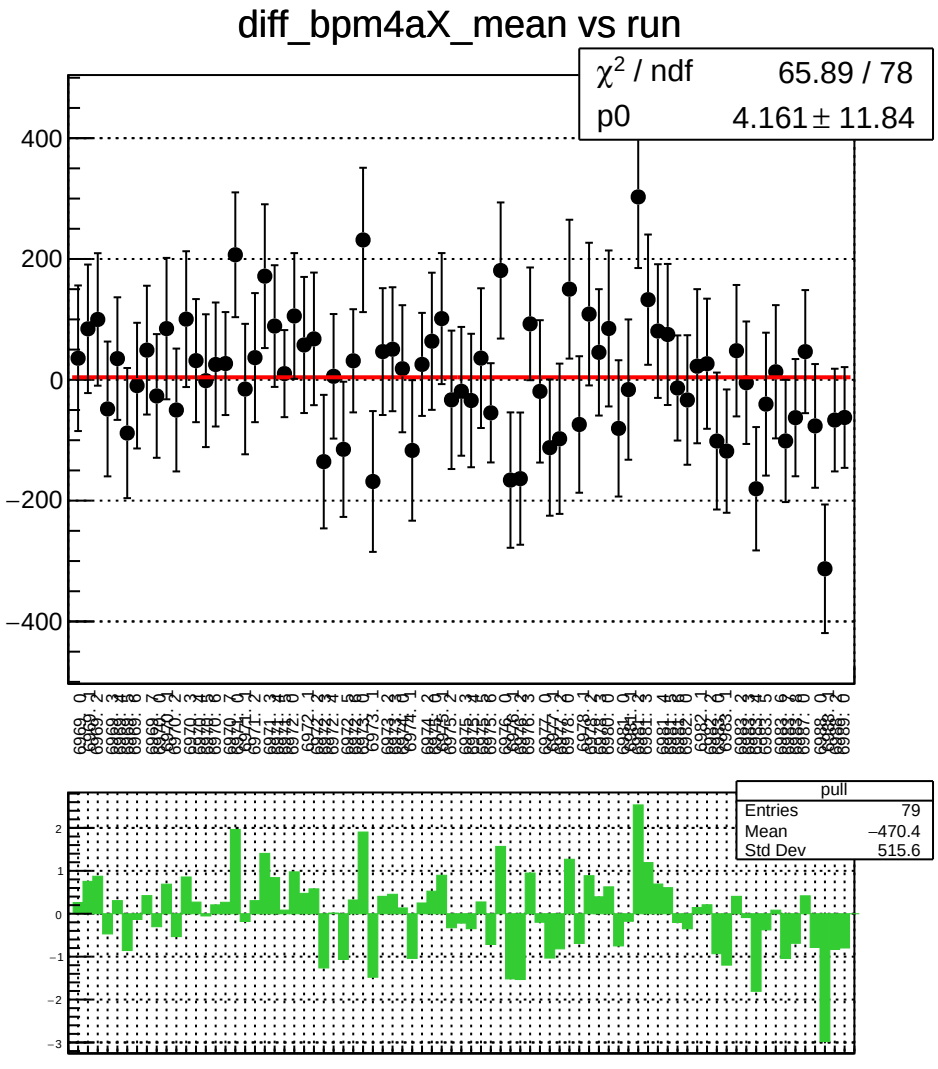
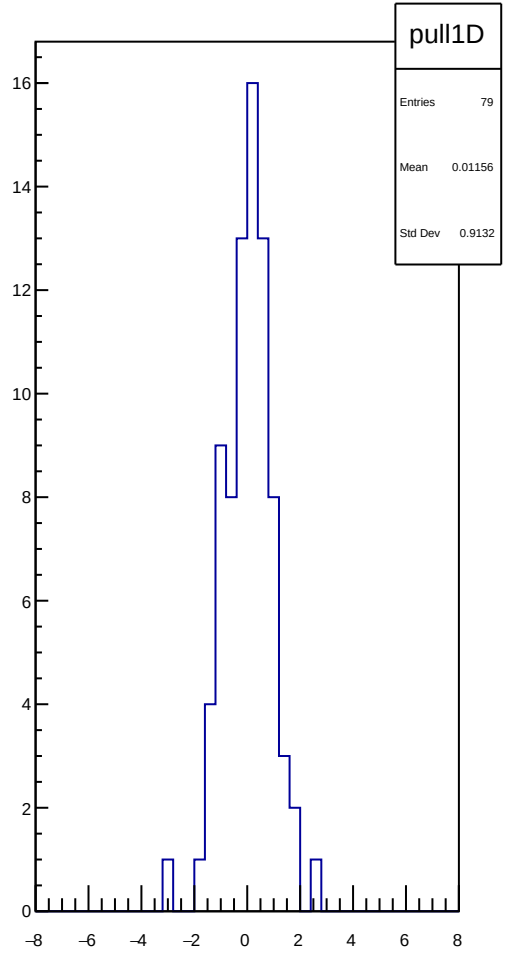
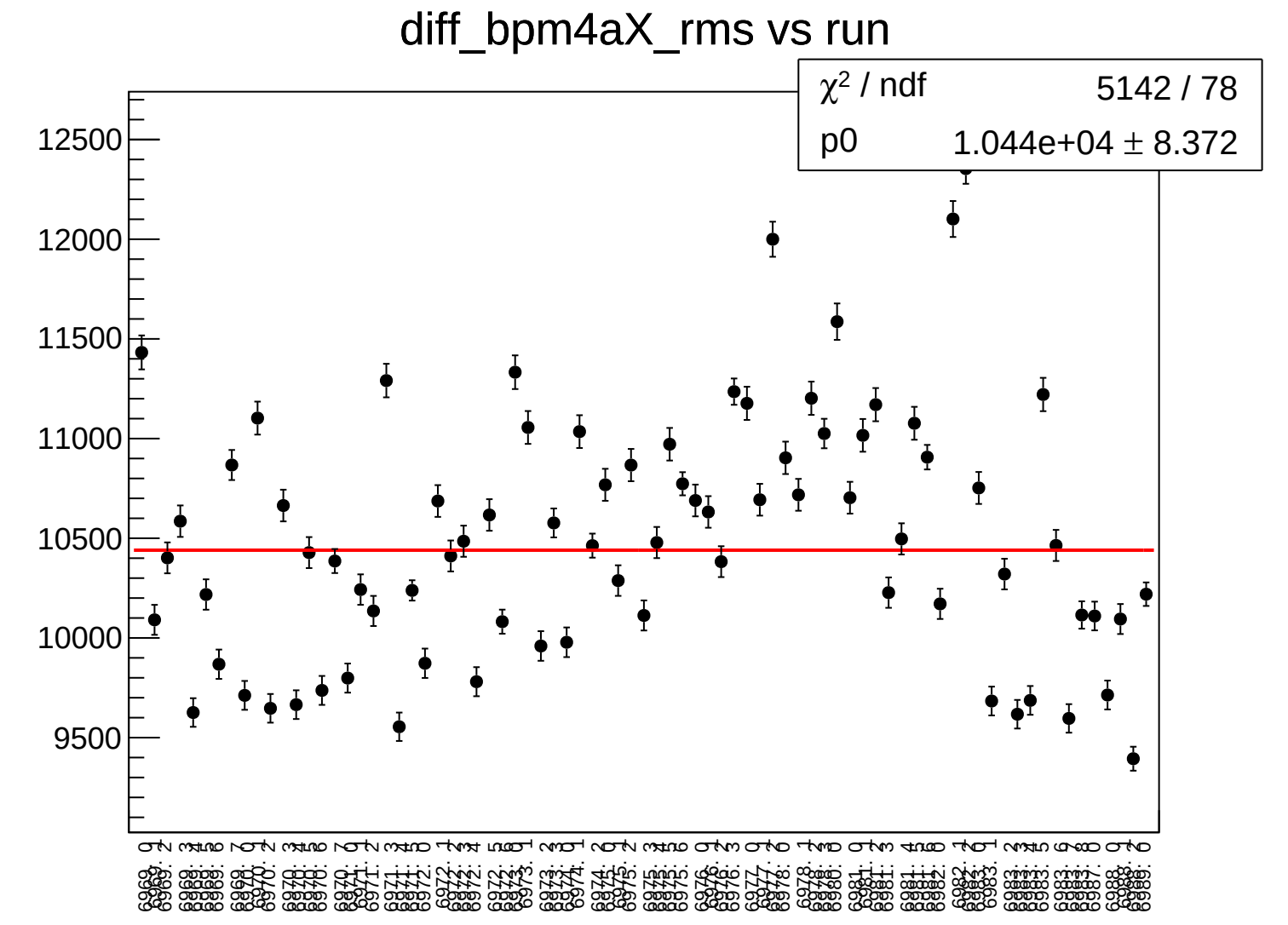
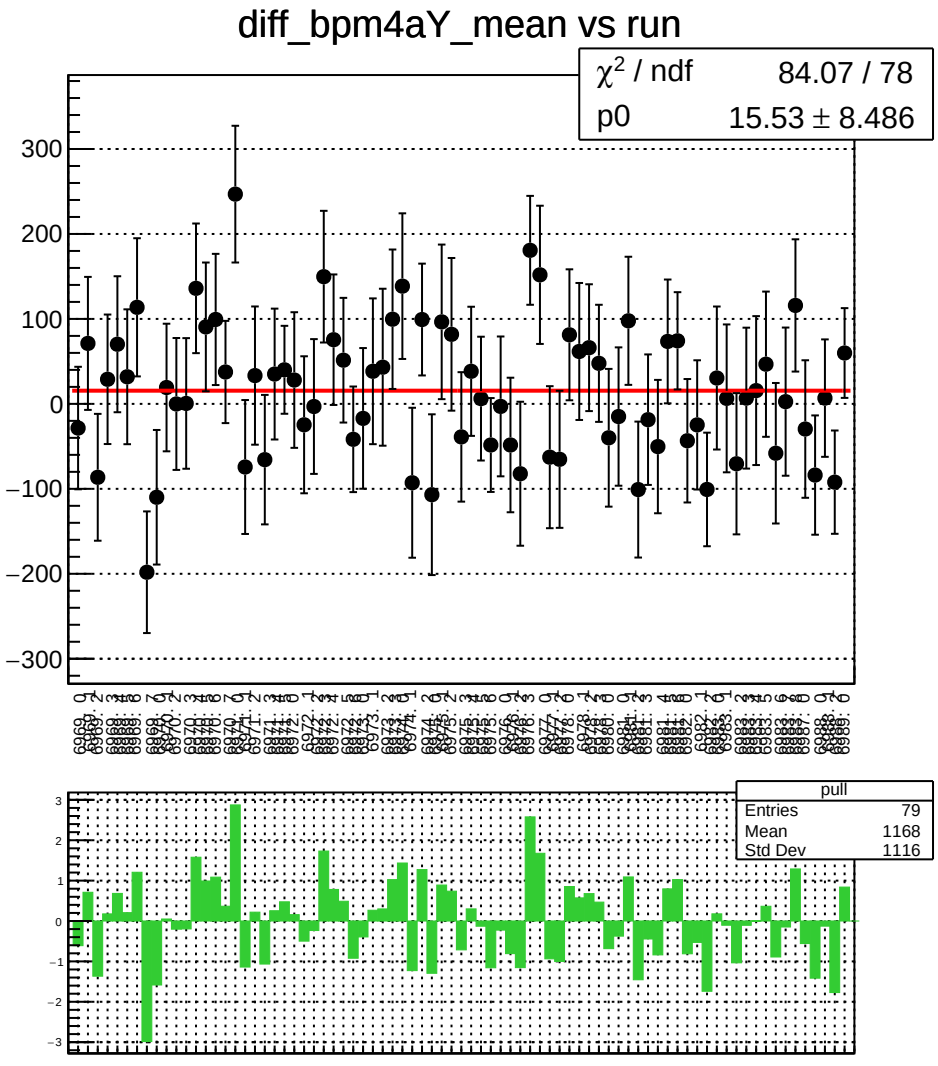
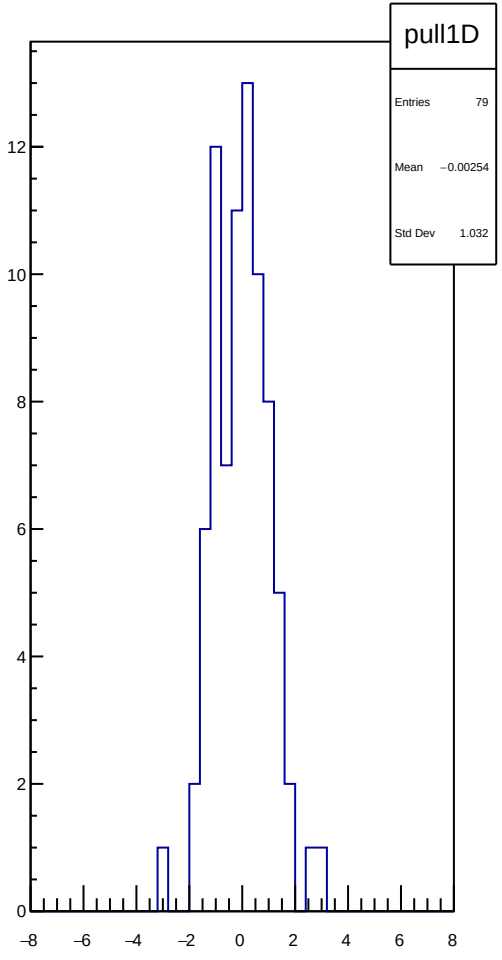
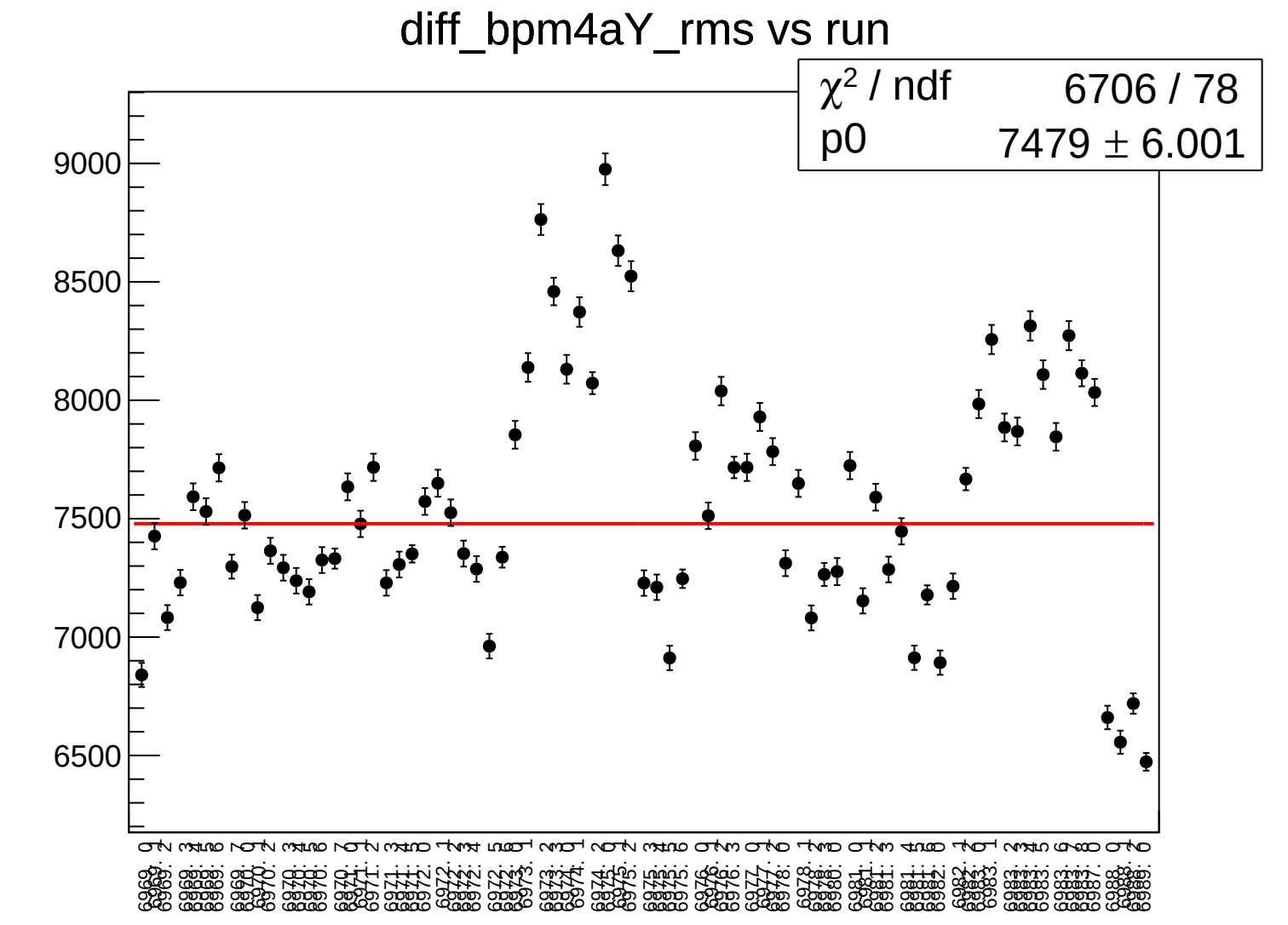

diff_bpm4aX_mean vs run
χ² / ndf 65.89 / 78
p0 4.161 ± 11.84
400
200
0
−200
−400
pull
Entries 79
Mean −470.4
Std Dev 515.6
2
1
0
−1
−2
−3

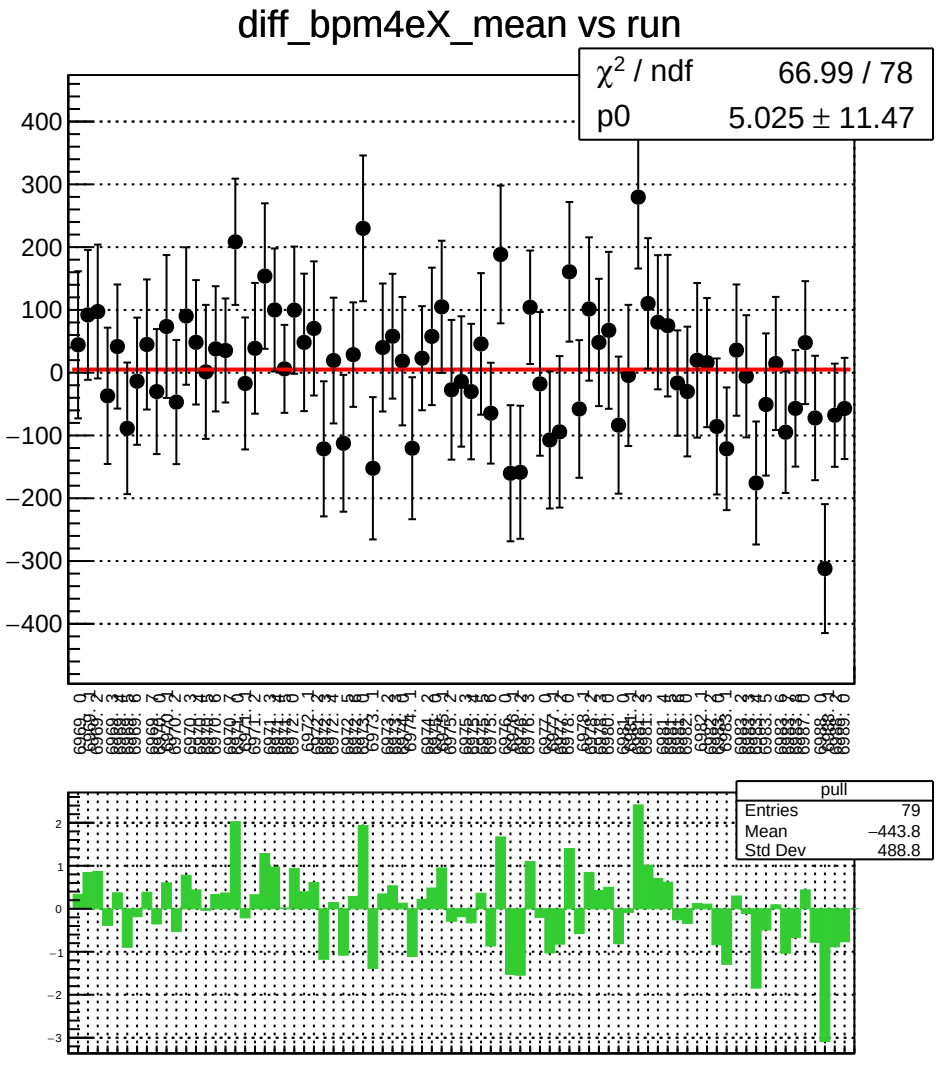

pull1D
Entries 79
Mean 0.01156
Std Dev 0.9132
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

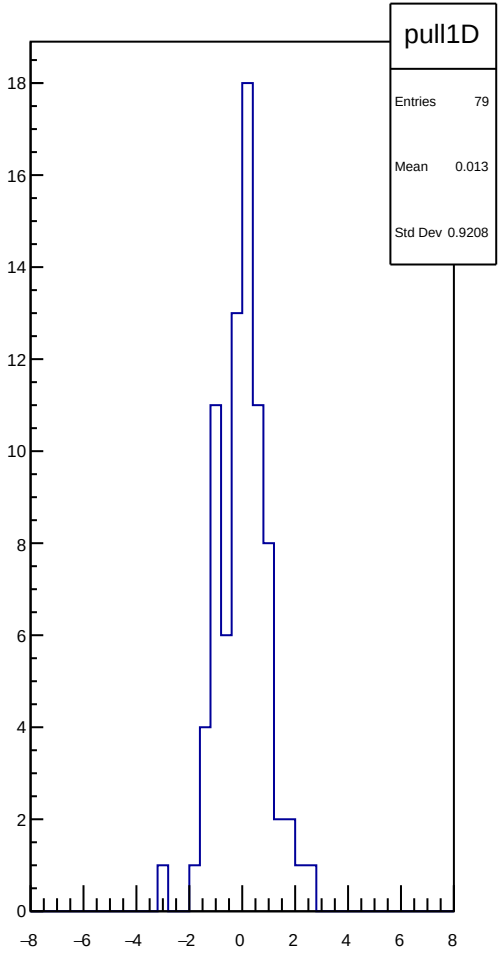

diff_bpm4aX_rms vs run
χ² / ndf 5142 / 78
p0 1.044e+04 ± 8.372
12500
12000
11500
11000
10500
10000
9500

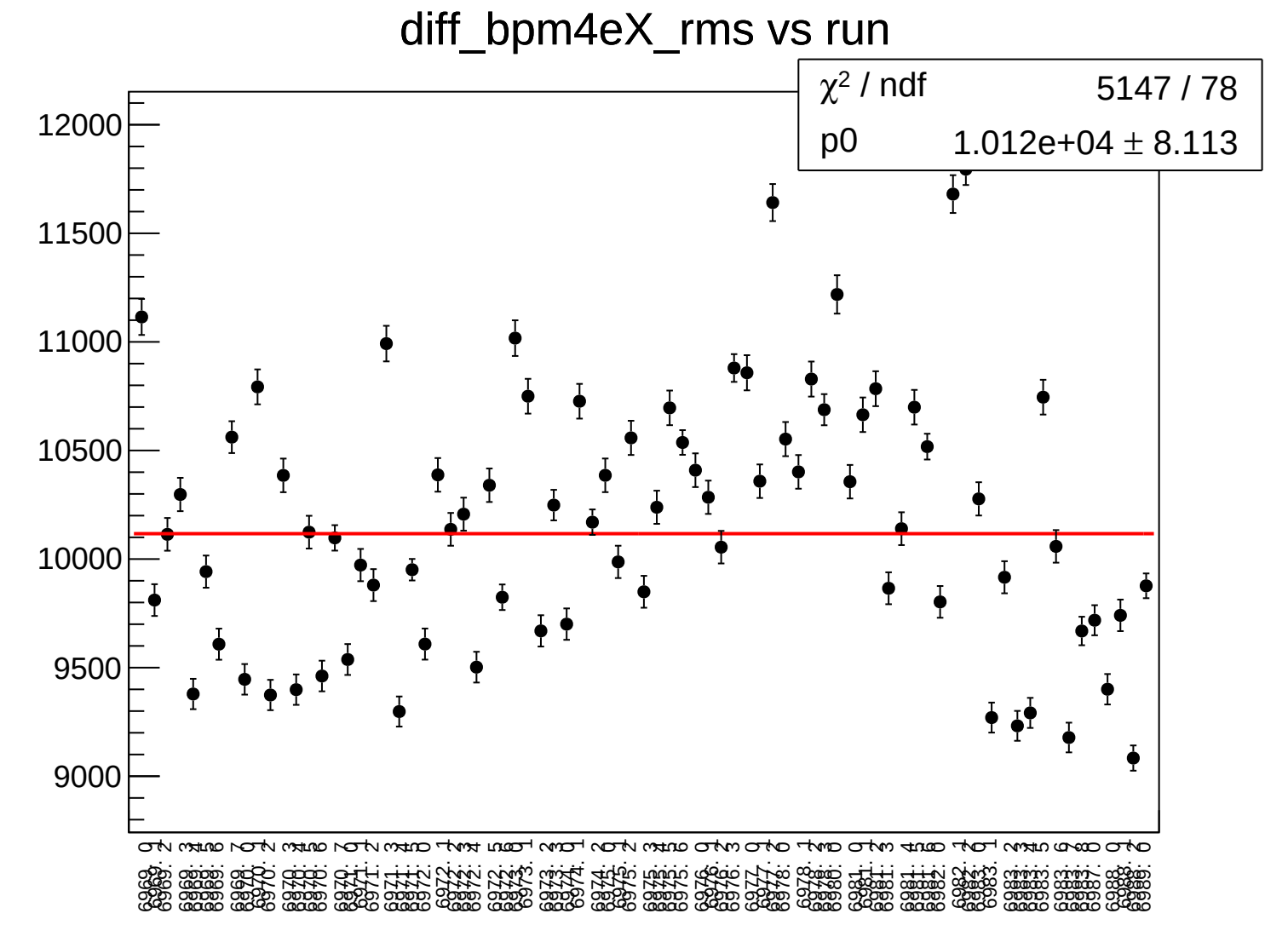

diff_bpm4aY_mean vs run
χ² / ndf 84.07 / 78
p0 15.53 ± 8.486
pull
Entries 79
Mean 1168
Std Dev 1116

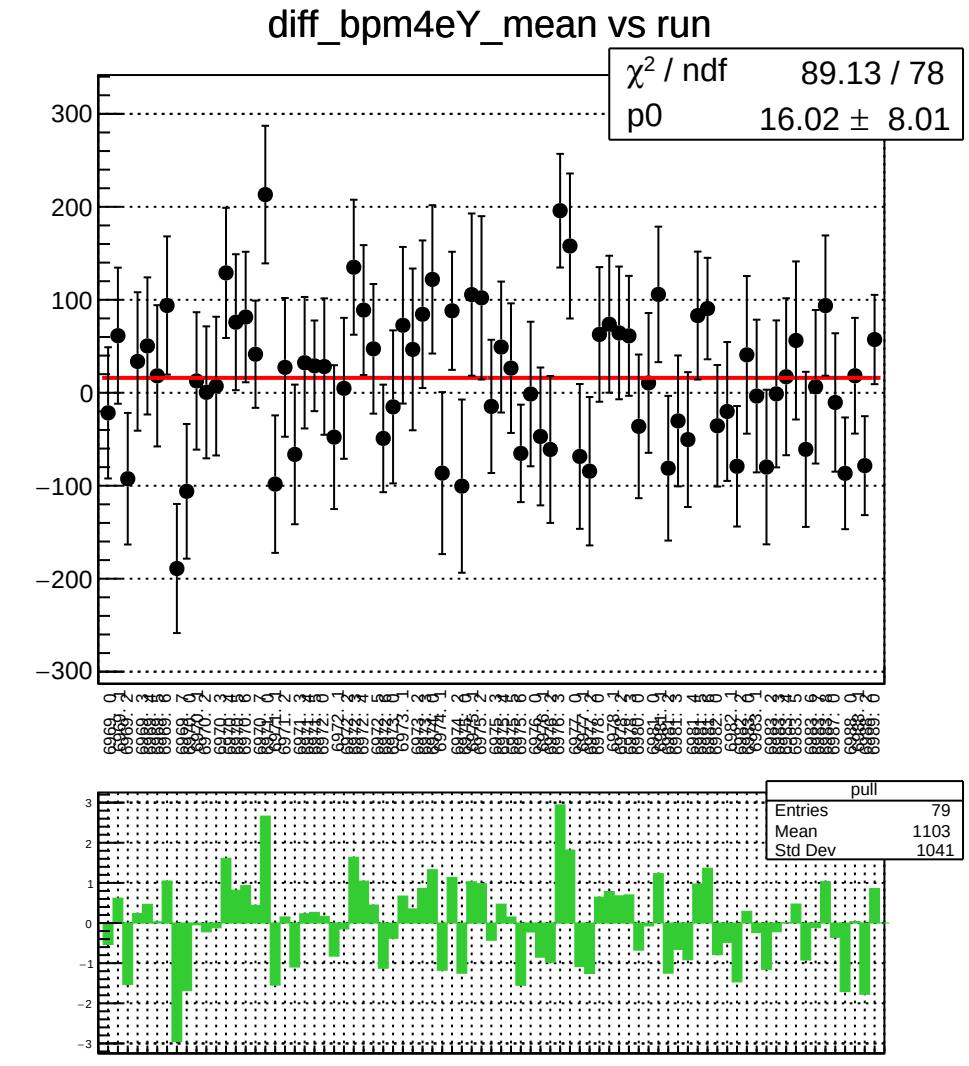

pull1D
Entries 79
Mean −0.00254
Std Dev 1.032

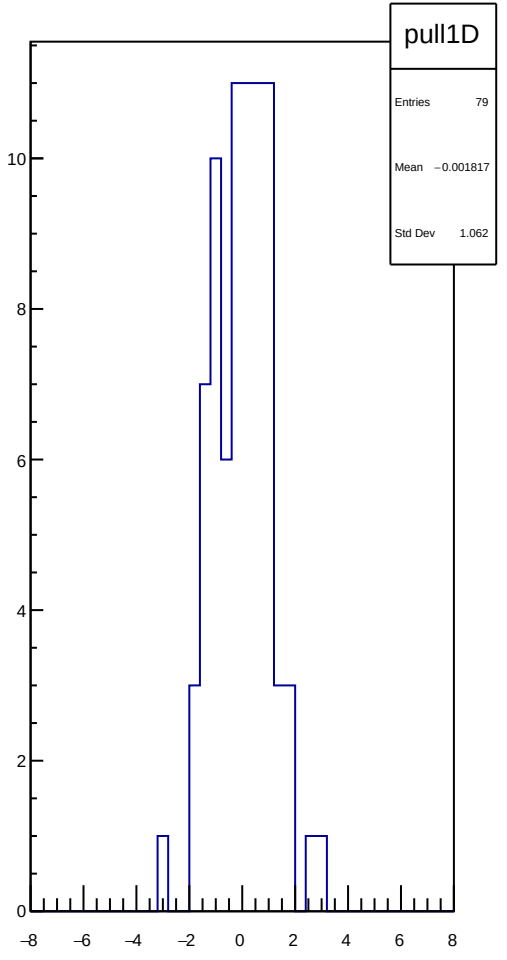

diff_bpm4aY_rms vs run
χ² / ndf 6706 / 78
p0 7479 ± 6.001
9000
8500
8000
7500
7000
6500

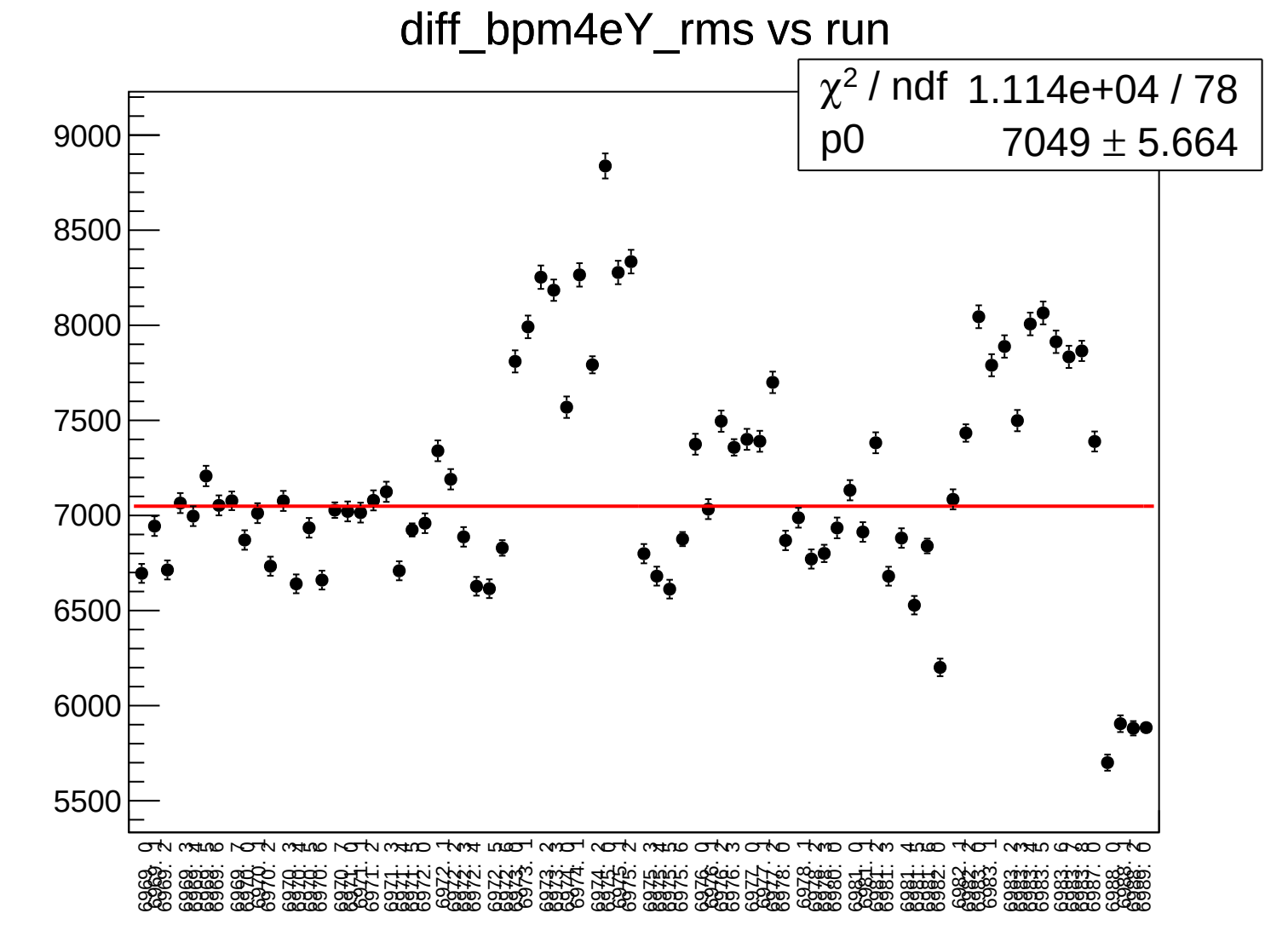

diff_bpm4eX_mean vs run
χ^2 / ndf 66.99 / 78
p0 5.025 ± 11.47
pull
Entries 79
Mean −443.8
Std Dev 488.8

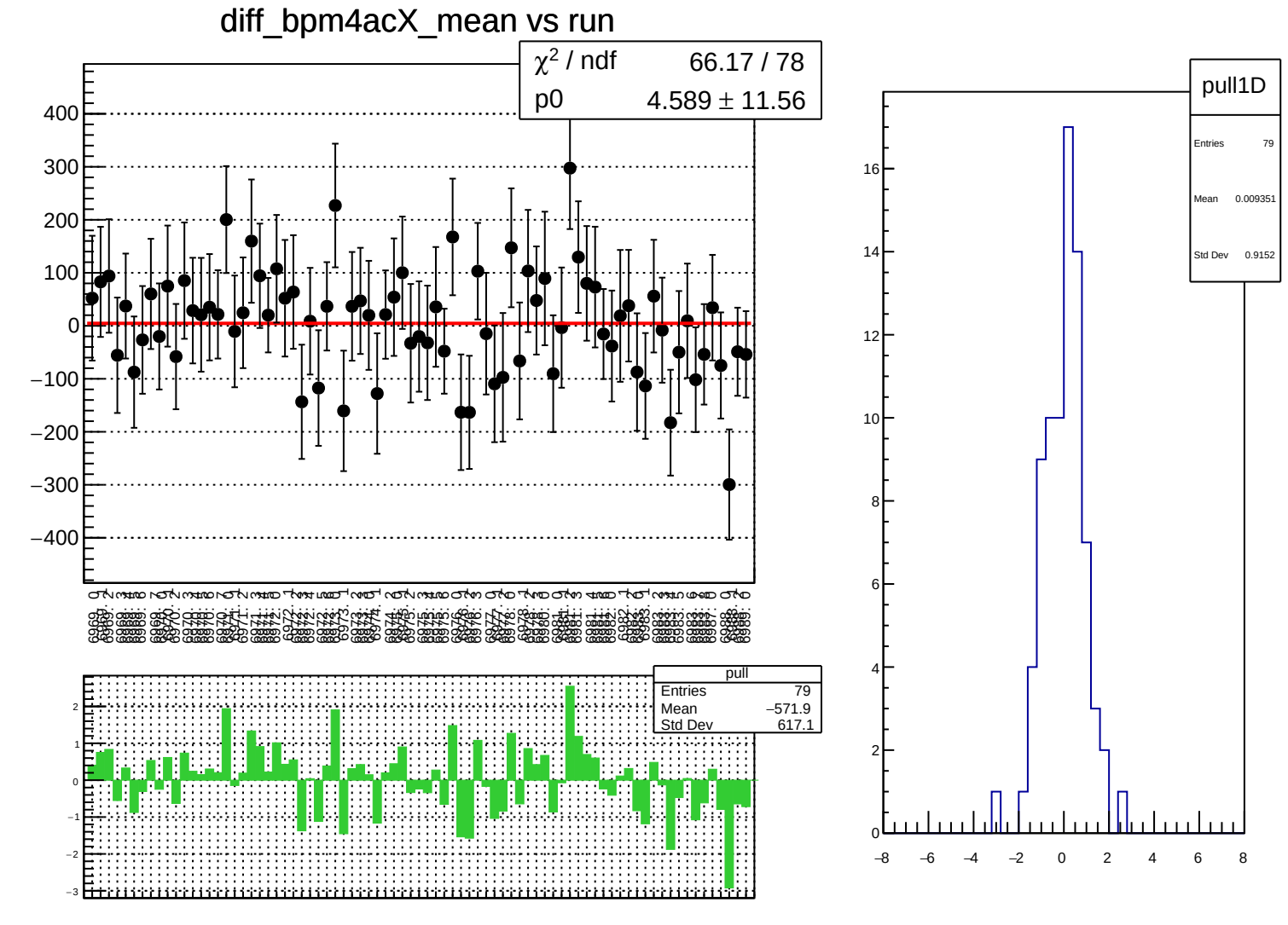

pull1D
Entries 79
Mean 0.013
Std Dev 0.9208

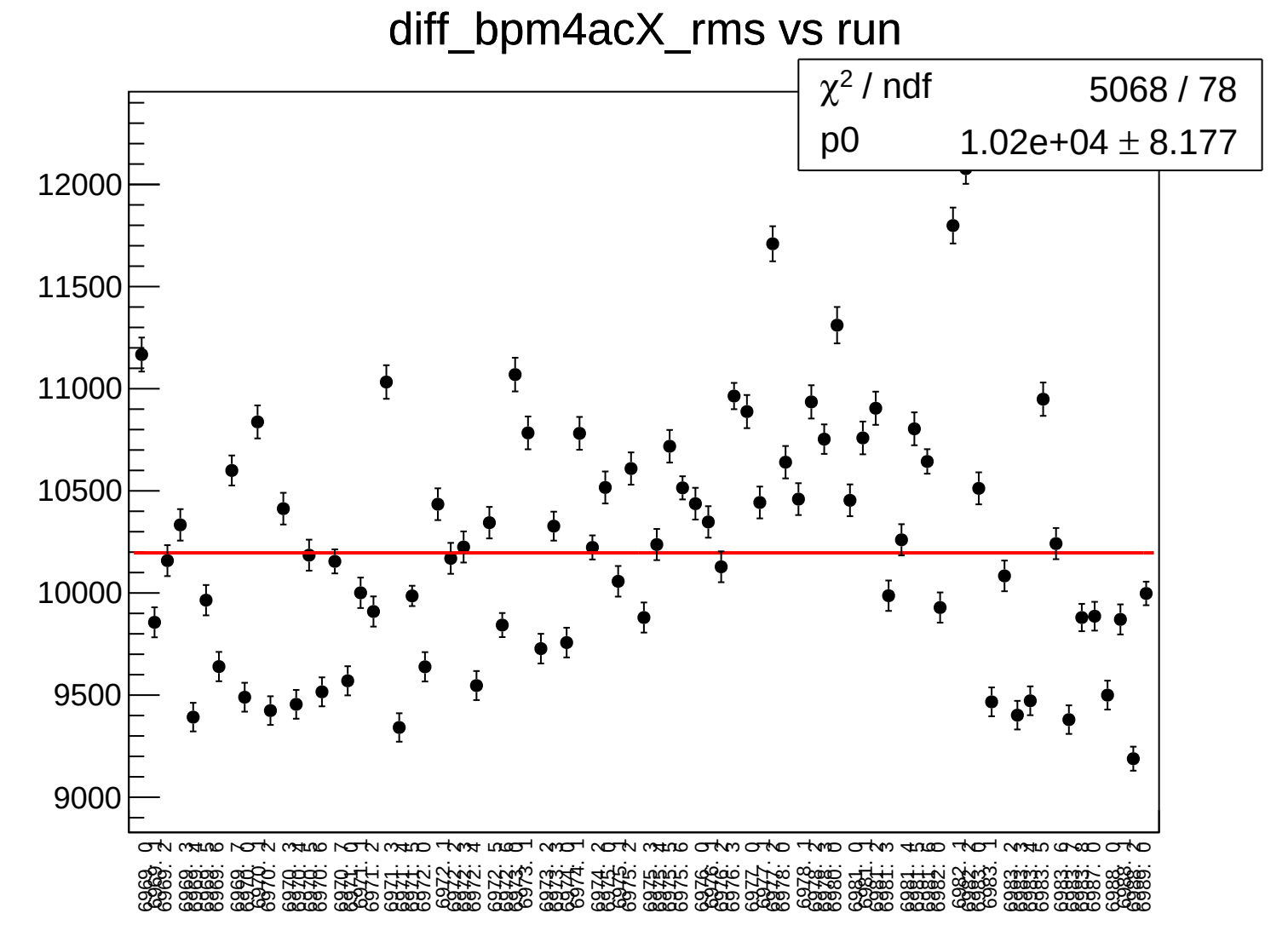

diff_bpm4eX_rms vs run
χ² / ndf 5147 / 78
p0 1.012e+04 ± 8.113
12000
11500
11000
10500
10000
9500
9000

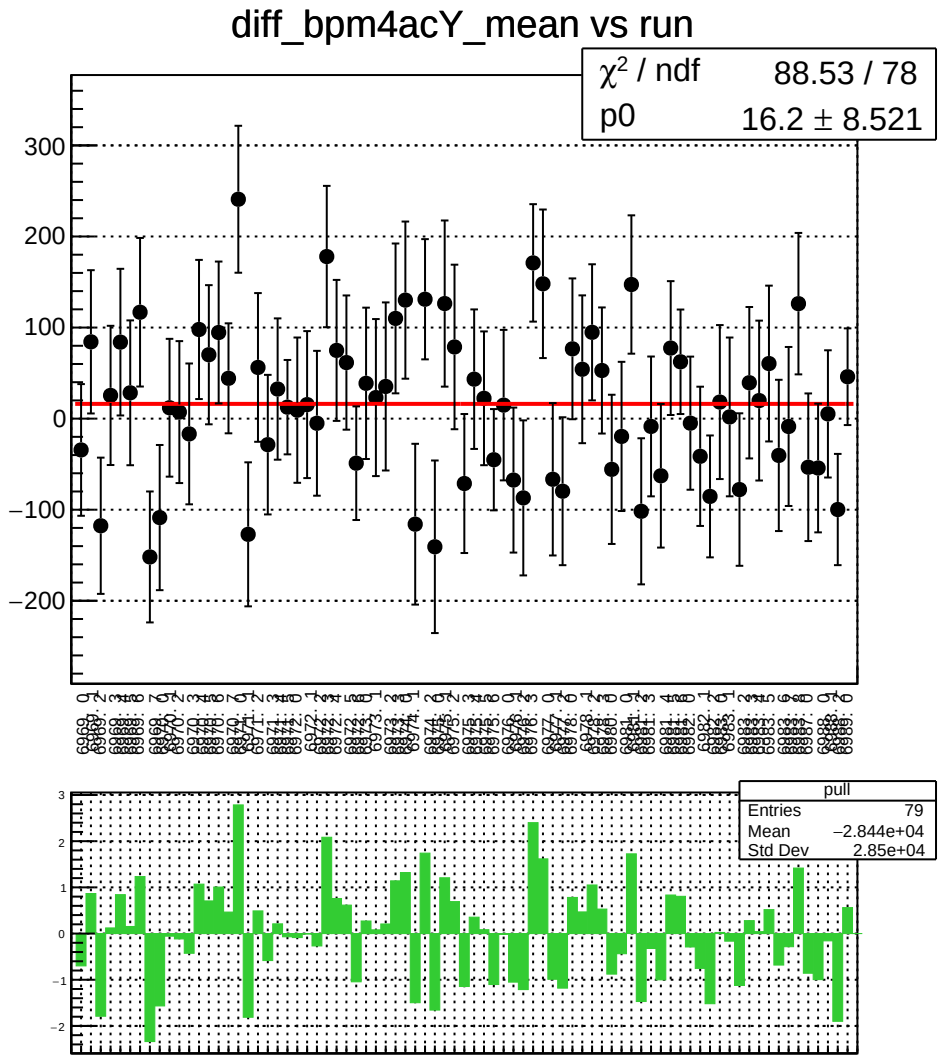

diff_bpm4eY_mean vs run
χ² / ndf 89.13 / 78
p0 16.02 ± 8.01
pull
Entries 79
Mean 1103
Std Dev 1041

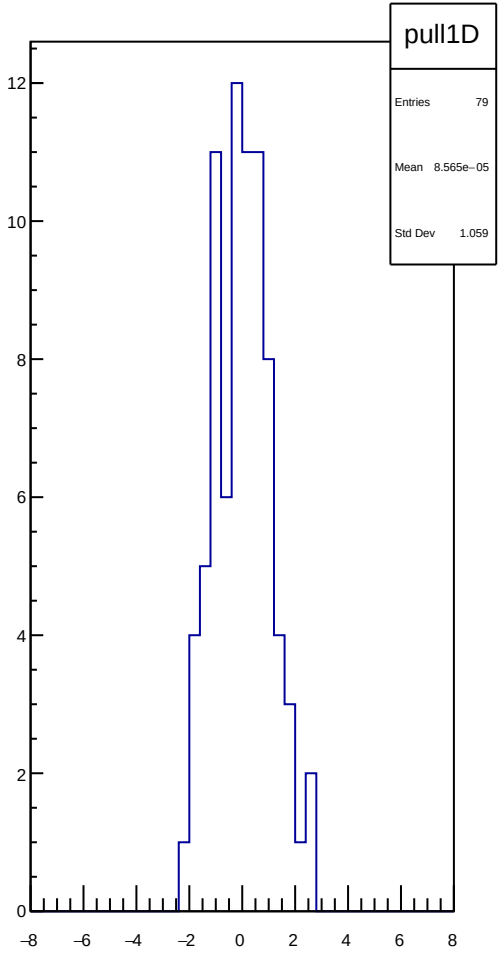

pull1D
Entries 79
Mean −0.001817
Std Dev 1.062

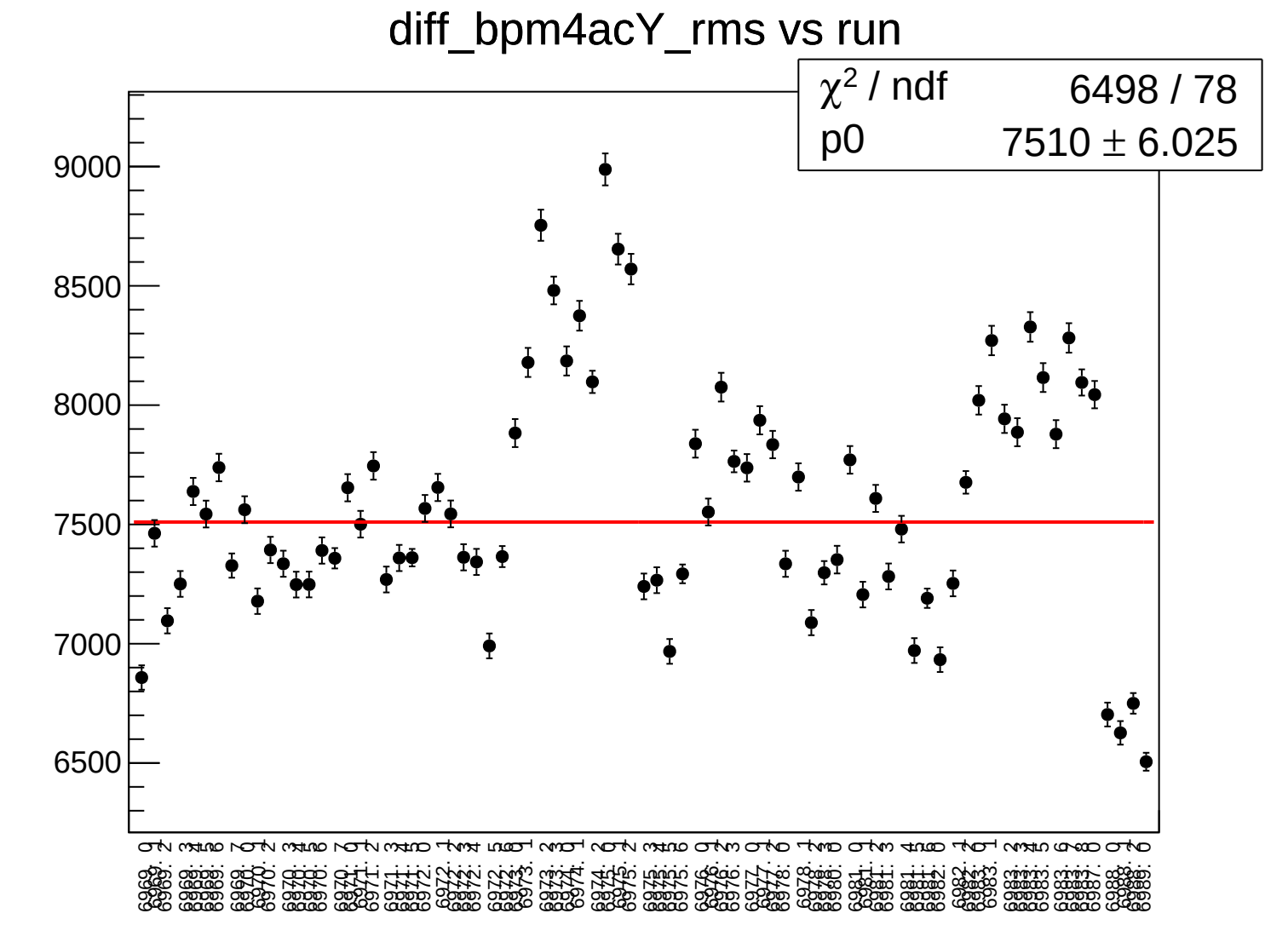

diff_bpm4eY_rms vs run
χ² / ndf 1.114e+04 / 78
p0 7049 ± 5.664
9000
8500
8000
7500
7000
6500
6000
5500

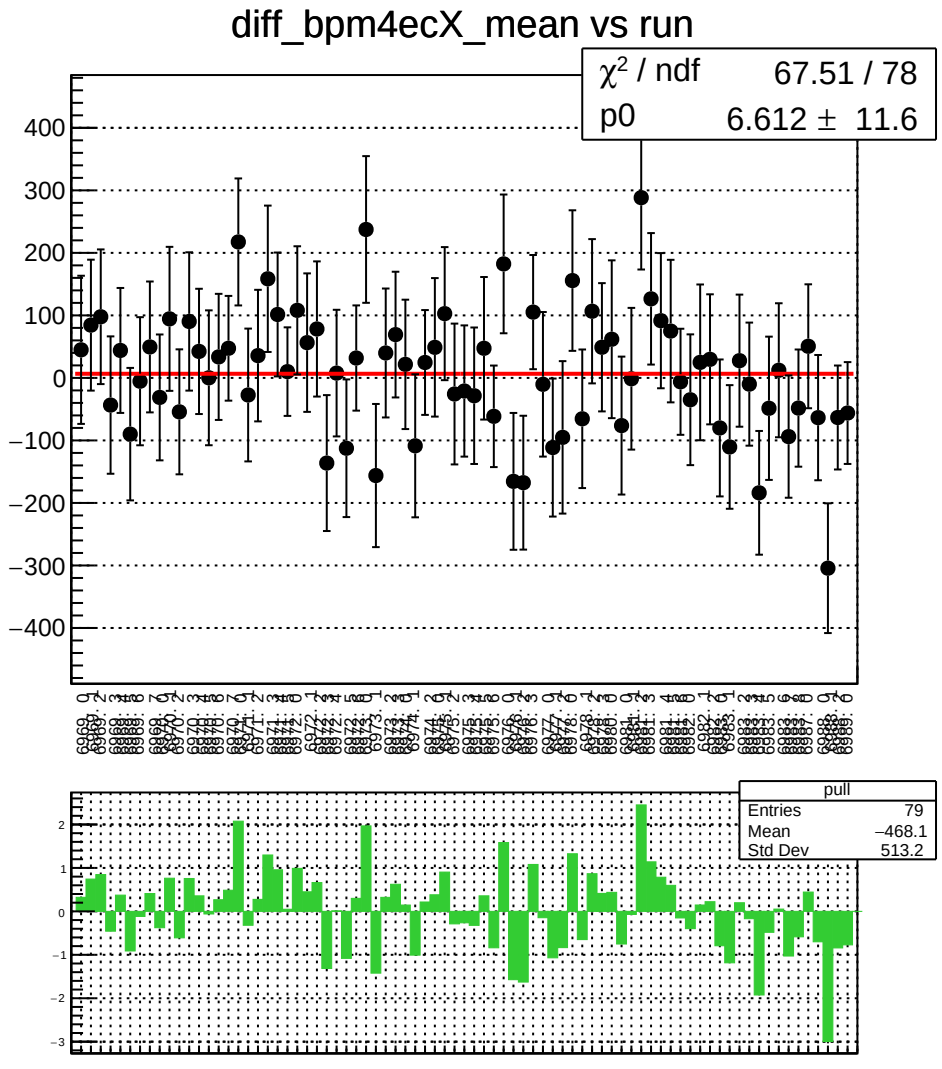

diff_bpm4acX_mean vs run
χ² / ndf 66.17 / 78
p0 4.589 ± 11.56
pull
Entries 79
Mean −571.9
Std Dev 617.1
pull1D
Entries 79
Mean 0.009351
Std Dev 0.9152

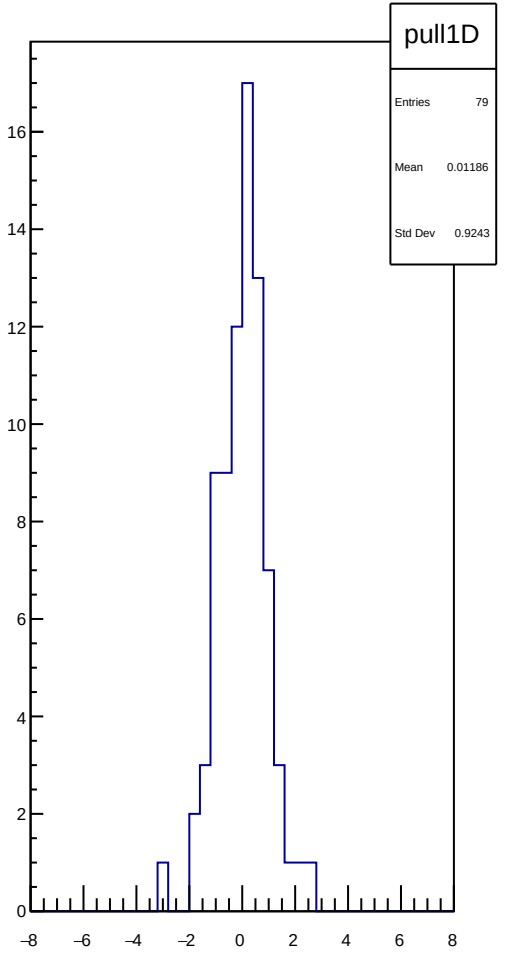

diff_bpm4acX_rms vs run
χ² / ndf 5068 / 78
p0 1.02e+04 ± 8.177
12000
11500
11000
10500
10000
9500
9000

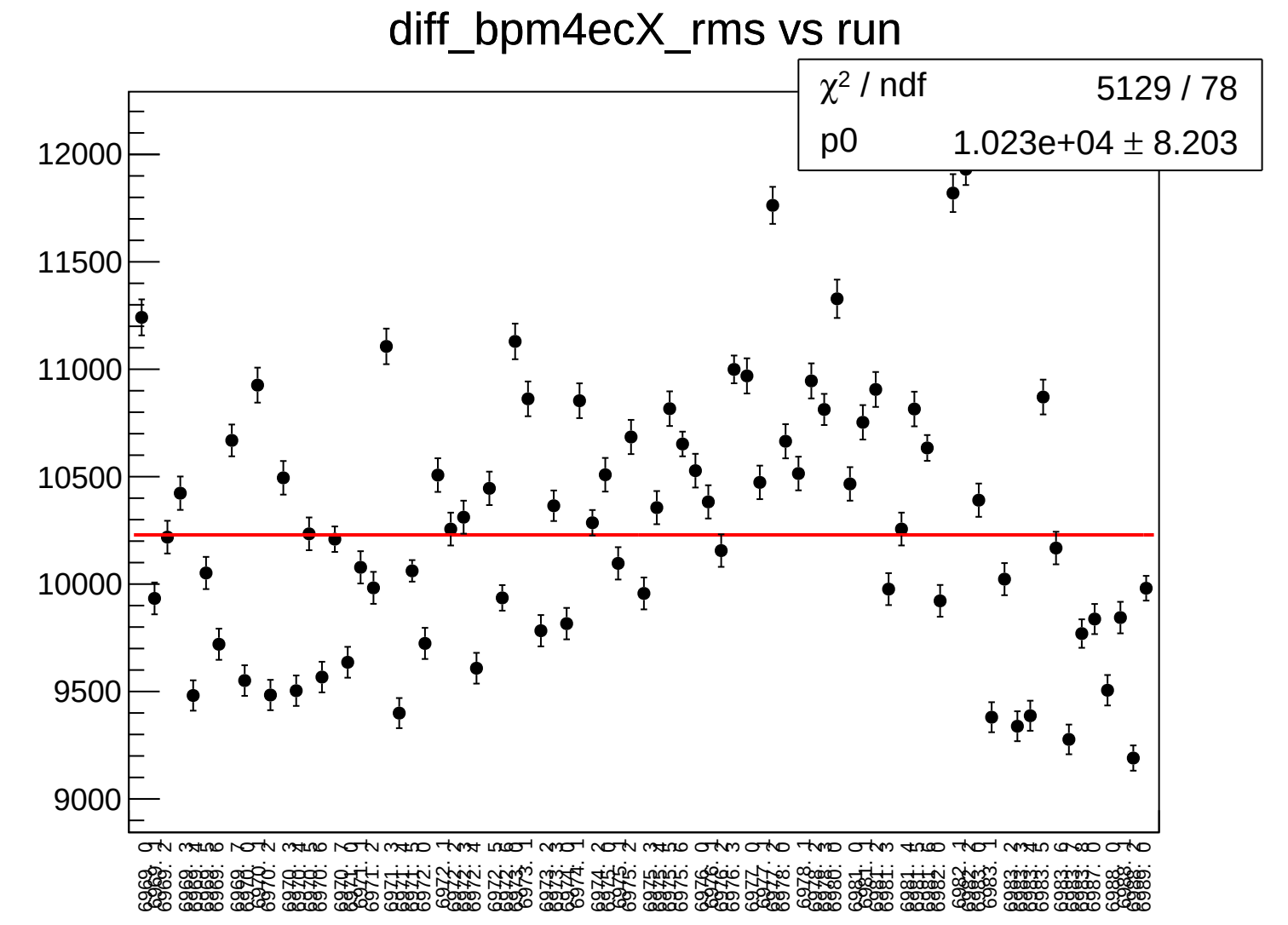

diff_bpm4acY_mean vs run
χ² / ndf 88.53 / 78
p0 16.2 ± 8.521
pull
Entries 79
Mean −2.844e+04
Std Dev 2.85e+04

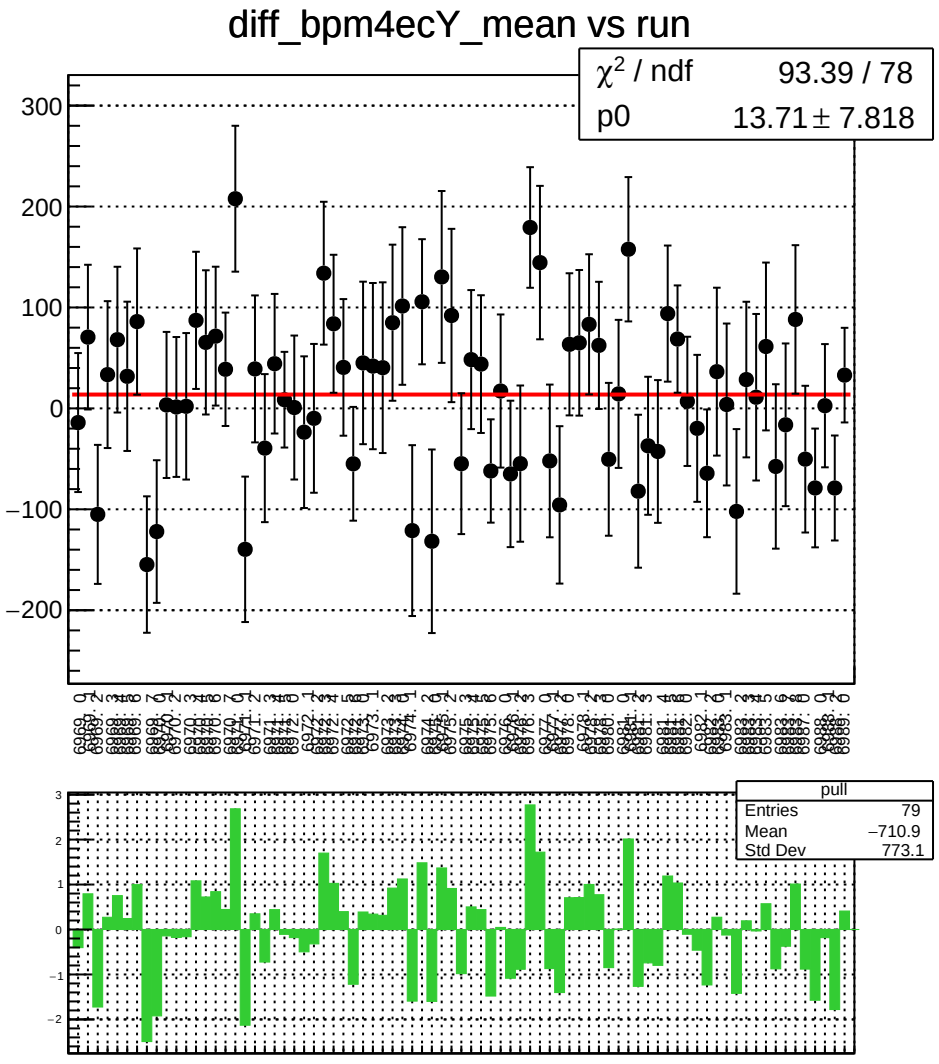

pull1D
Entries 79
Mean 8.565e−05
Std Dev 1.059

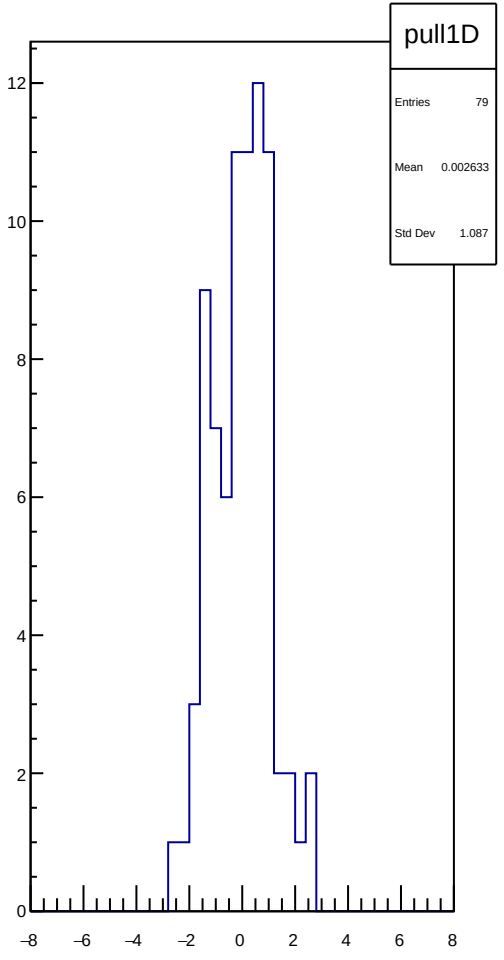

diff_bpm4acY_rms vs run
χ² / ndf 6498 / 78
p0 7510 ± 6.025
9000
8500
8000
7500
7000
6500

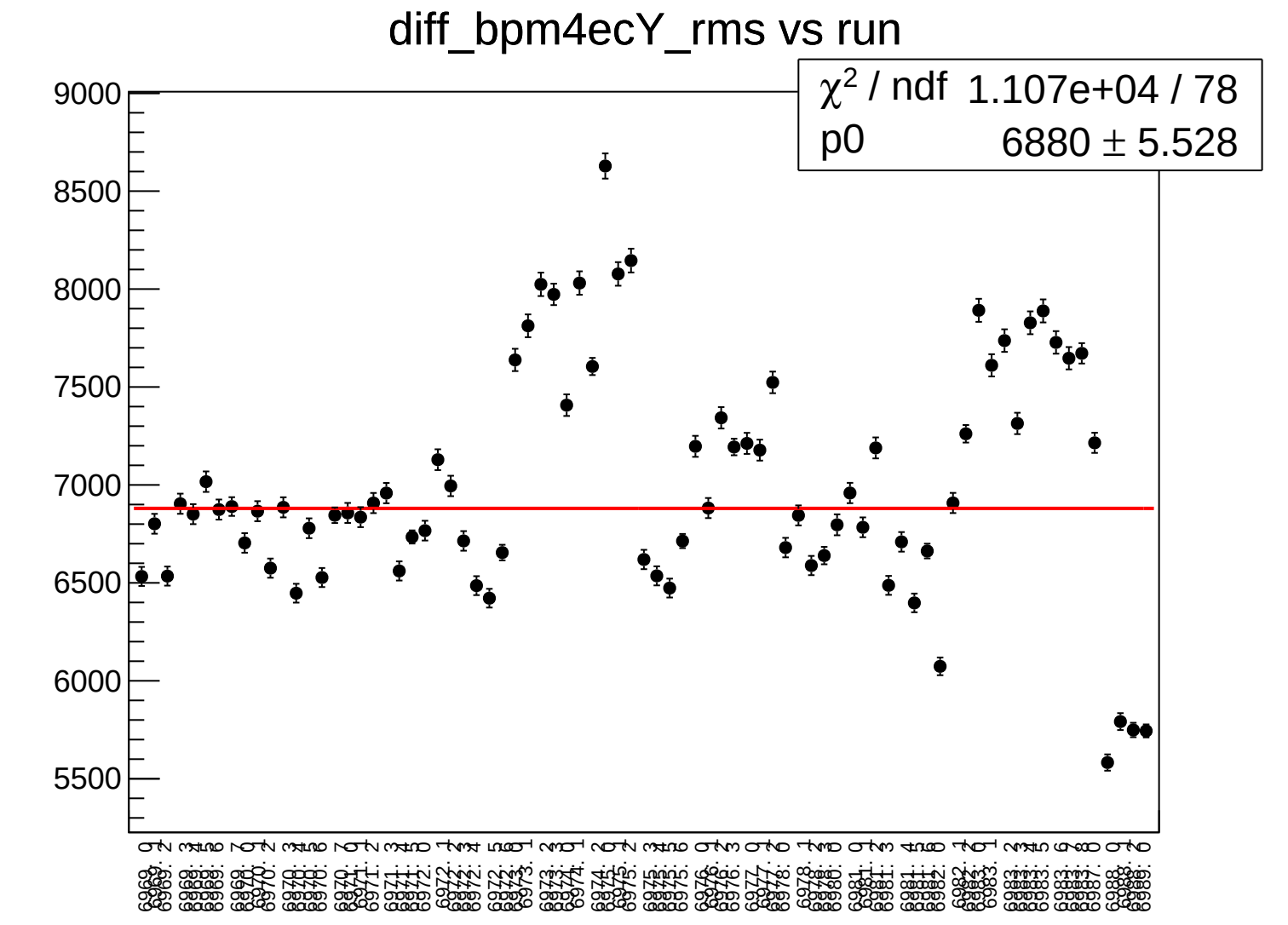

diff_bpm4ecX_mean vs run
χ² / ndf 67.51 / 78
p0 6.612 ± 11.6
pull
Entries 79
Mean −468.1
Std Dev 513.2

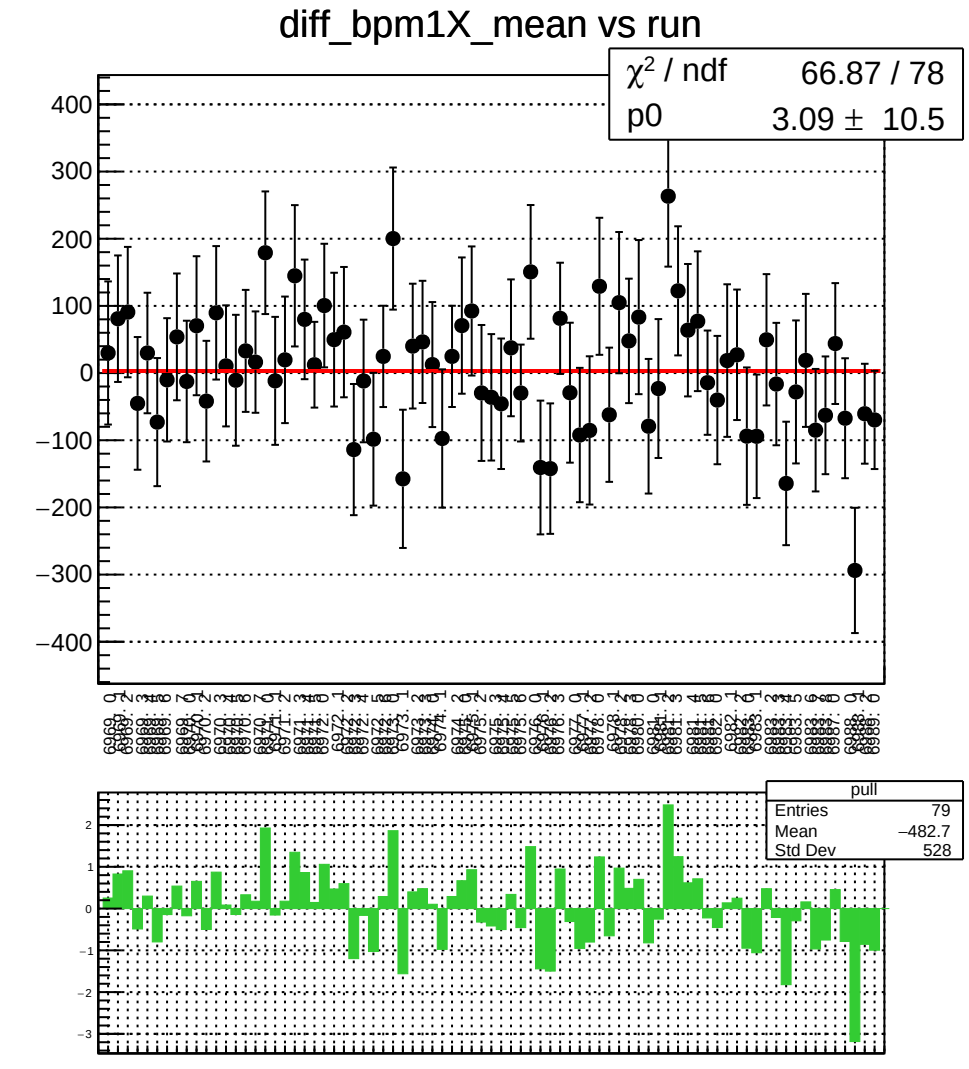

pull1D
Entries 79
Mean 0.01186
Std Dev 0.9243

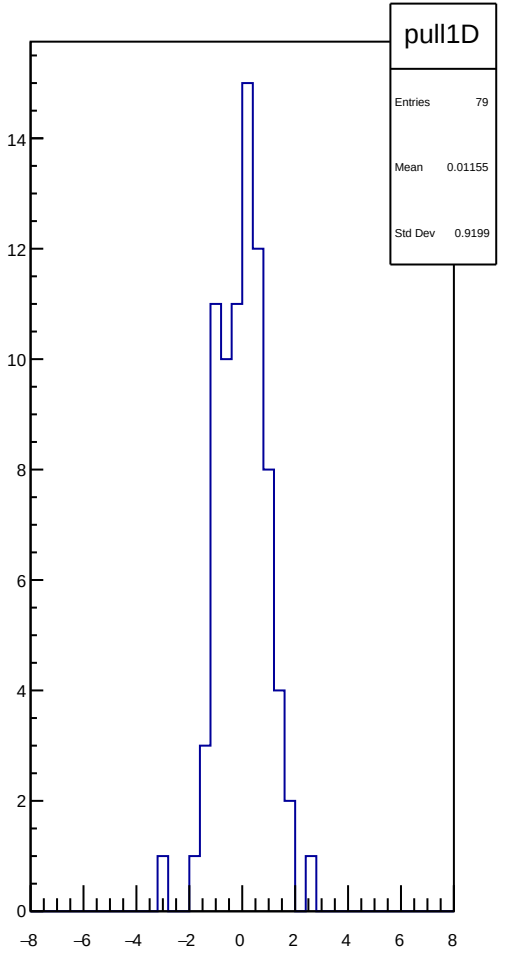

diff_bpm4ecX_rms vs run
χ² / ndf 5129 / 78
p0 1.023e+04 ± 8.203
12000
11500
11000
10500
10000
9500
9000

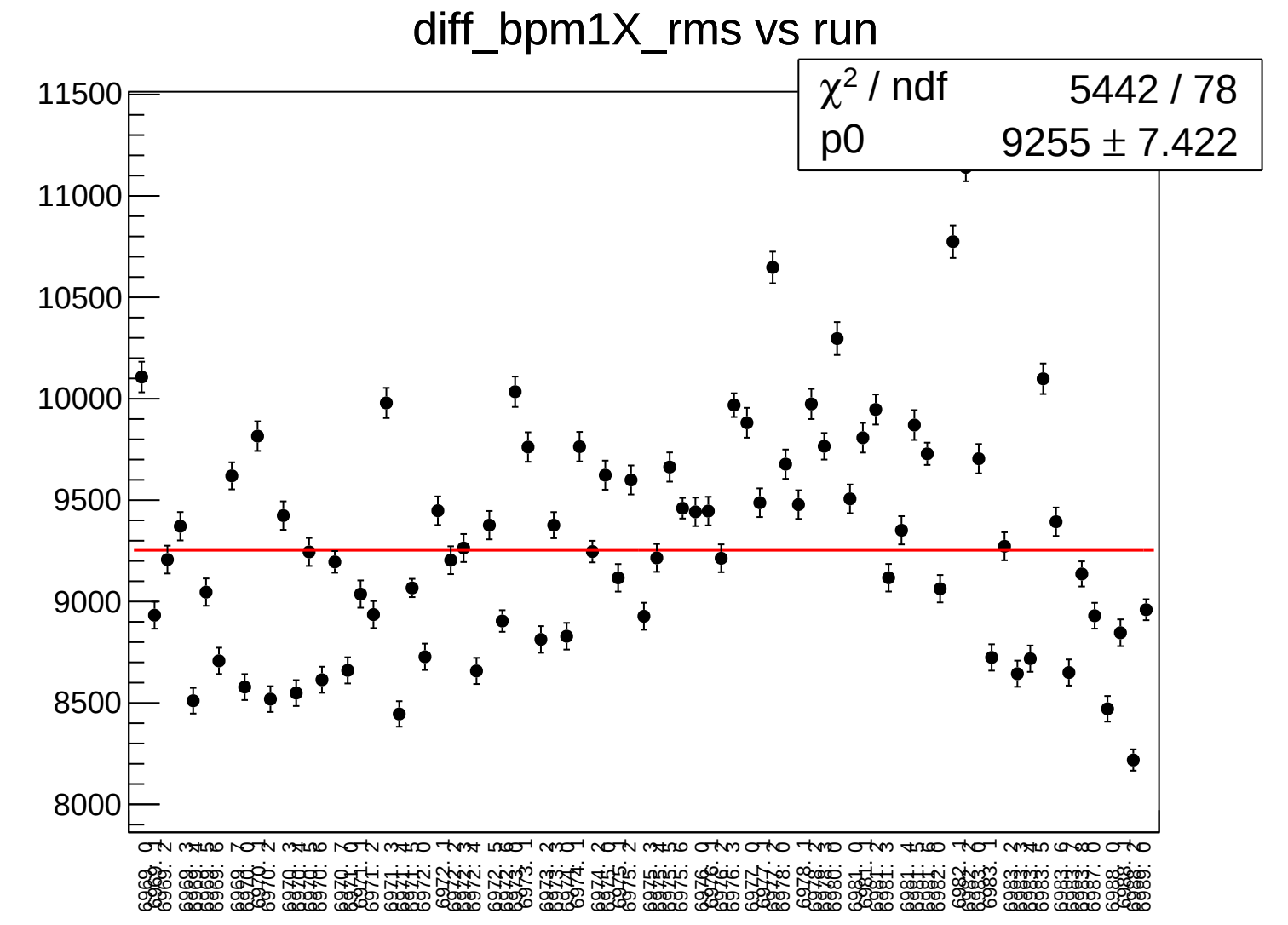

diff_bpm4ecY_mean vs run
χ² / ndf 93.39 / 78
p0 13.71 ± 7.818
pull
Entries 79
Mean −710.9
Std Dev 773.1

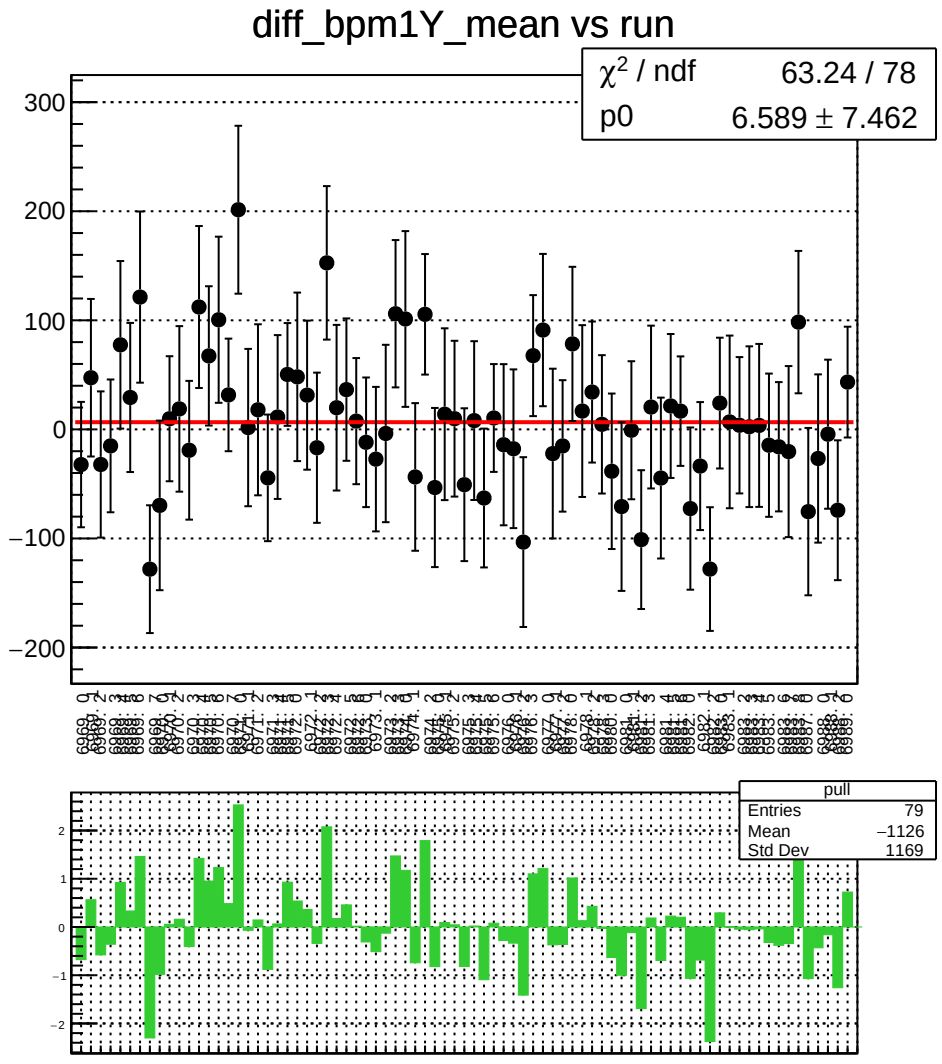

pull1D
Entries 79
Mean 0.002633
Std Dev 1.087

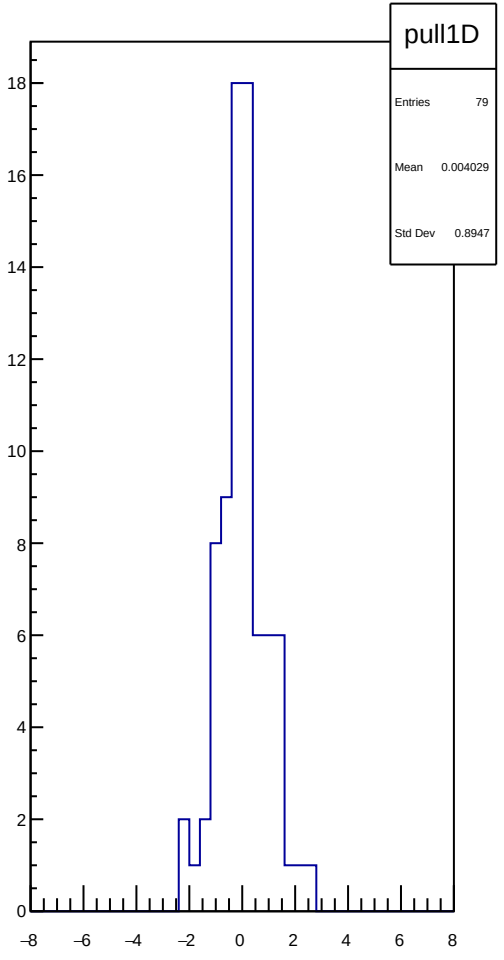

diff_bpm4ecY_rms vs run
χ² / ndf 1.107e+04 / 78
p0 6880 ± 5.528
9000
8500
8000
7500
7000
6500
6000
5500

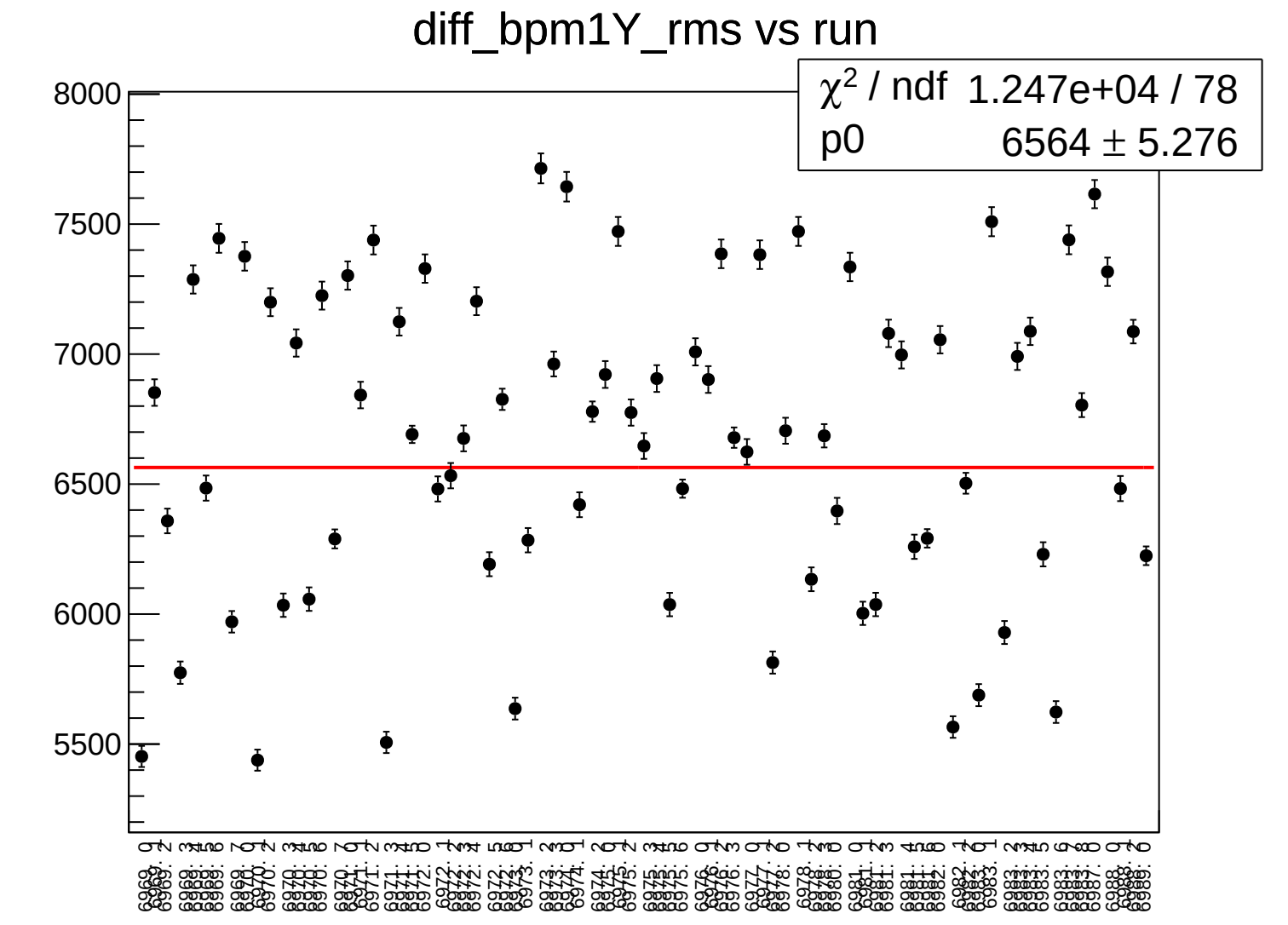

diff_bpm1X_mean vs run
χ² / ndf 66.87 / 78
p0 3.09 ± 10.5
pull
Entries 79
Mean −482.7
Std Dev 528

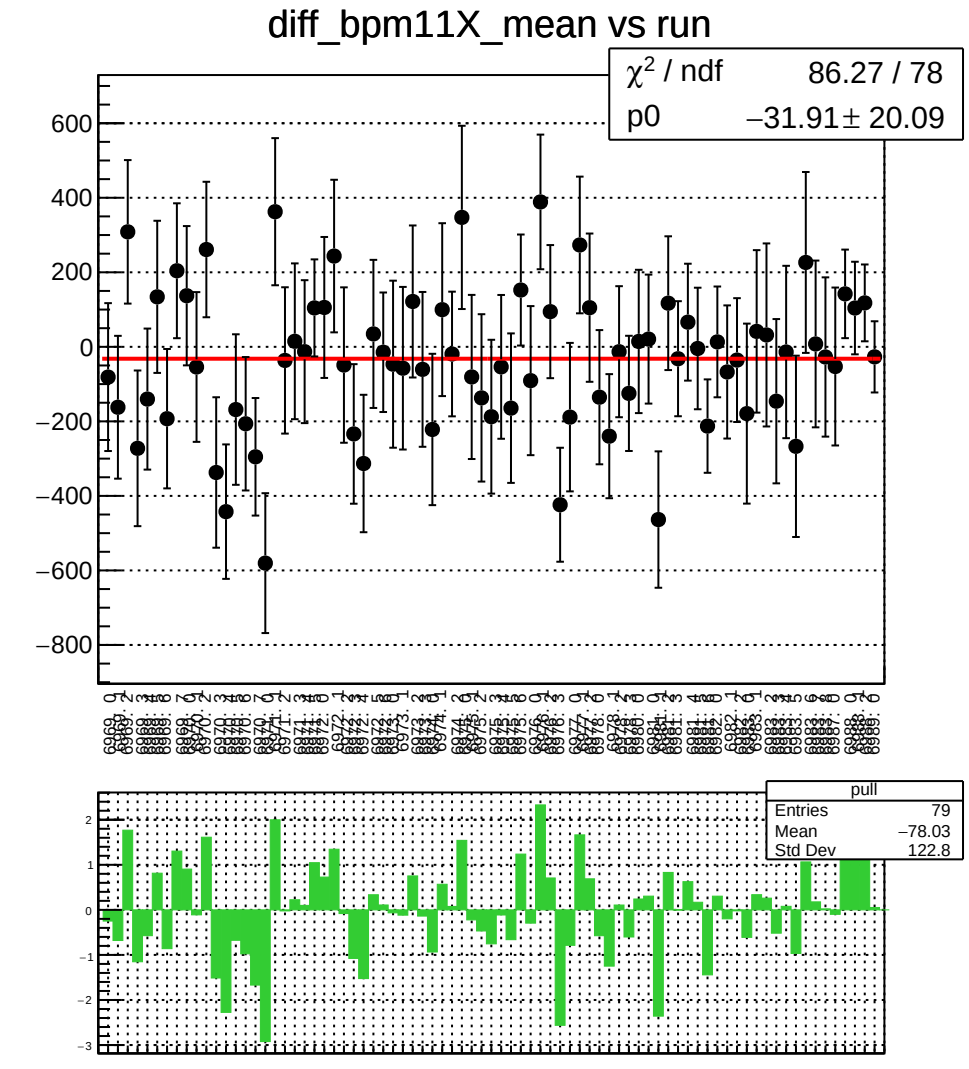

pull1D
Entries 79
Mean 0.01155
Std Dev 0.9199

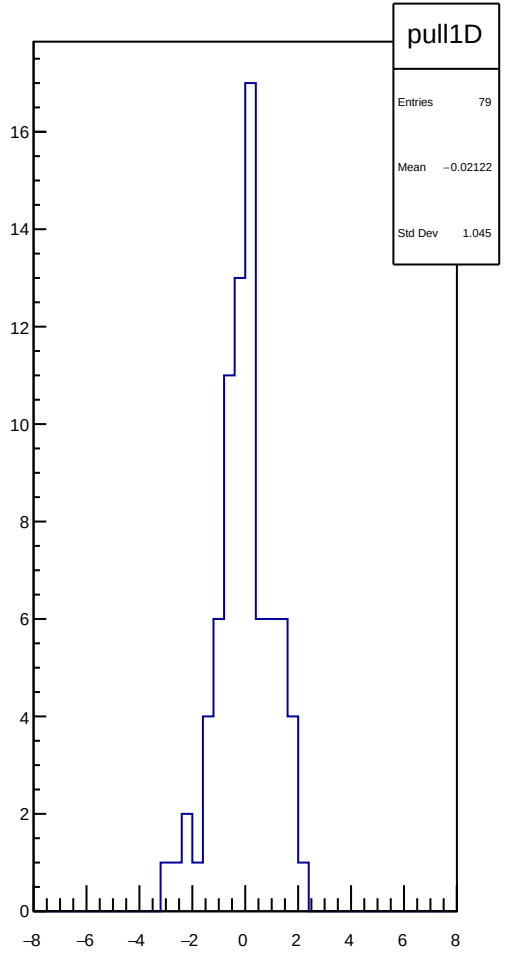

diff_bpm1X_rms vs run
χ^2 / ndf 5442 / 78
p0 9255 ± 7.422
11500
11000
10500
10000
9500
9000
8500
8000

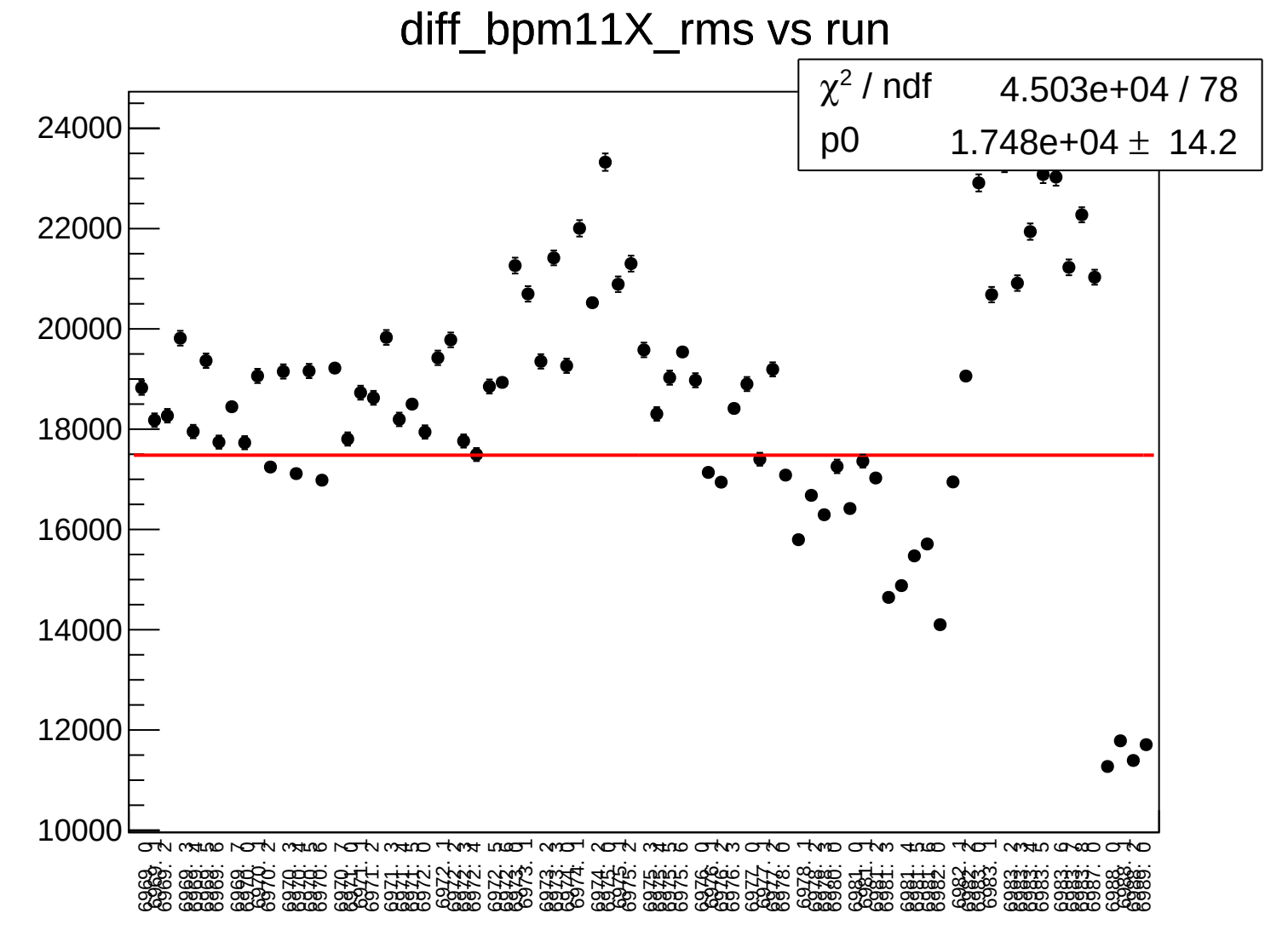

diff_bpm1Y_mean vs run
χ² / ndf 63.24 / 78
p0 6.589 ± 7.462
pull
Entries 79
Mean −1126
Std Dev 1169

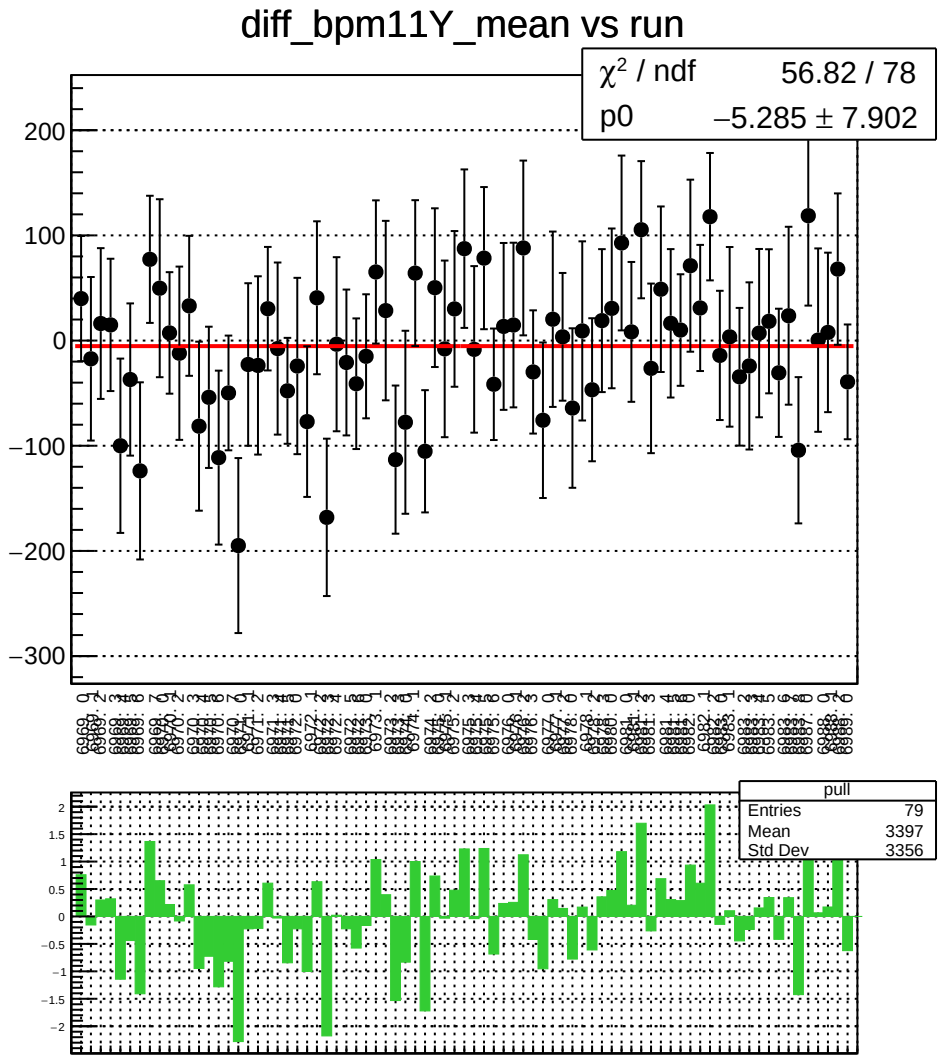

pull1D
Entries 79
Mean 0.004029
Std Dev 0.8947

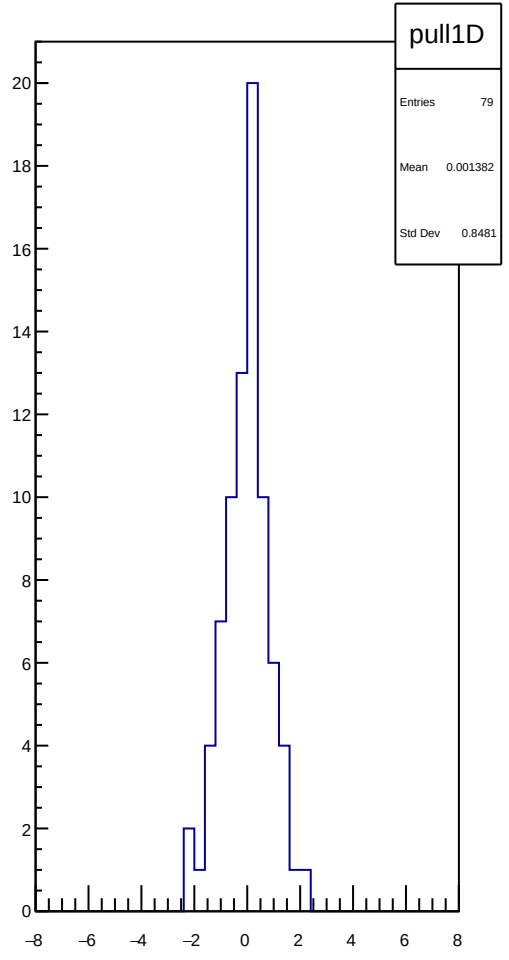

diff_bpm1Y_rms vs run
χ² / ndf 1.247e+04 / 78
p0 6564 ± 5.276
8000
7500
7000
6500
6000
5500

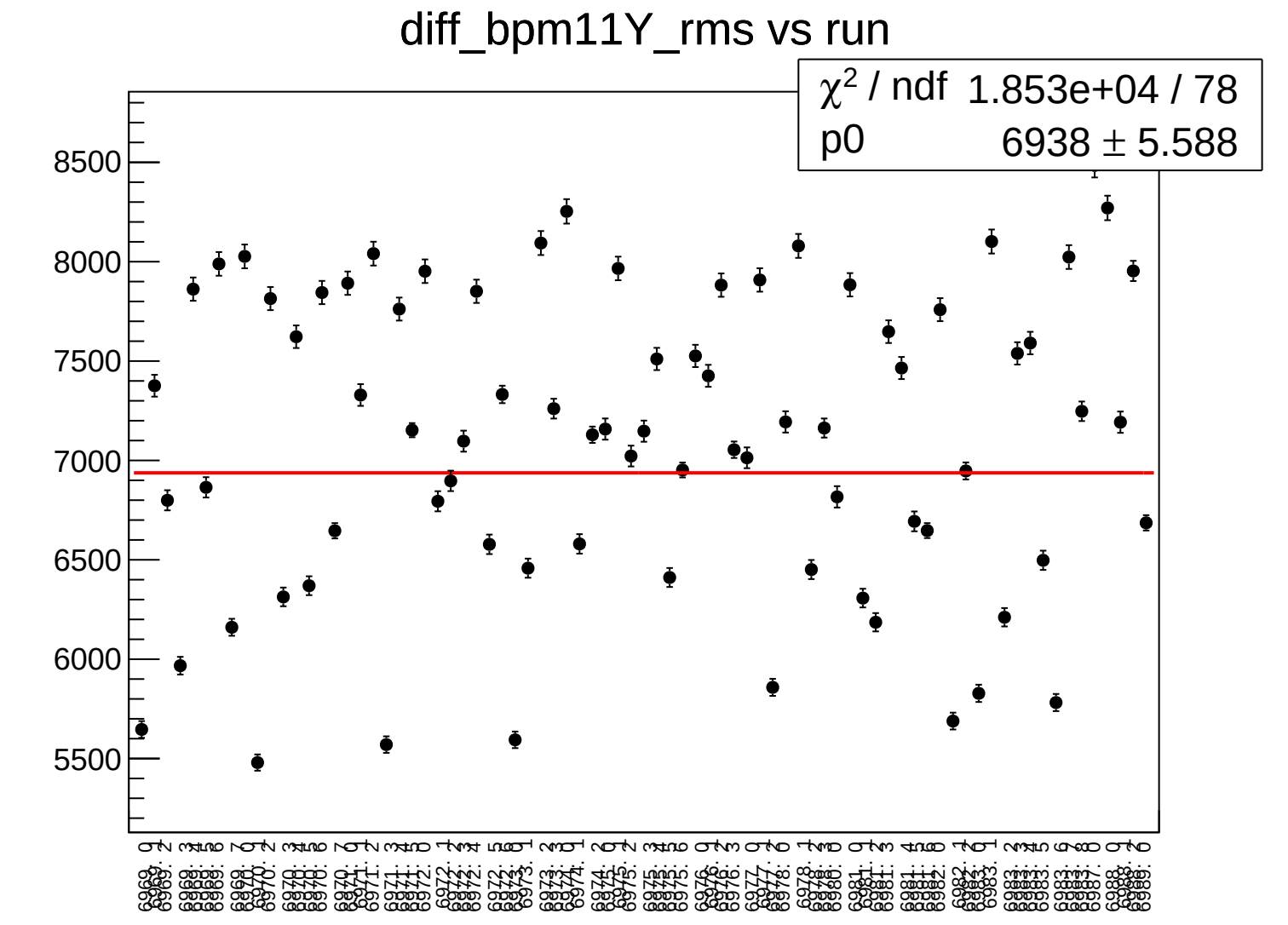

diff_bpm11X_mean vs run
χ² / ndf 86.27 / 78
p0 −31.91 ± 20.09
pull
Entries 79
Mean −78.03
Std Dev 122.8

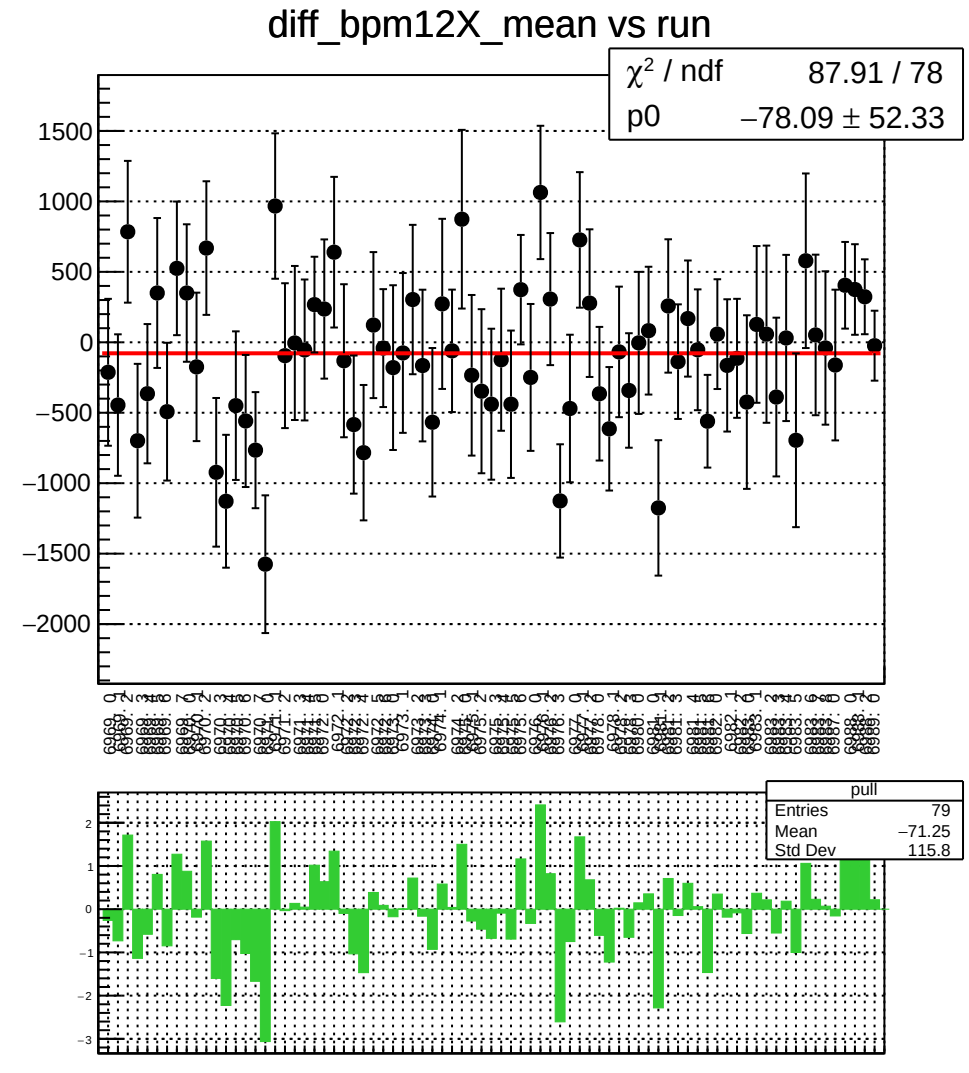

pull1D
Entries 79
Mean −0.02122
Std Dev 1.045

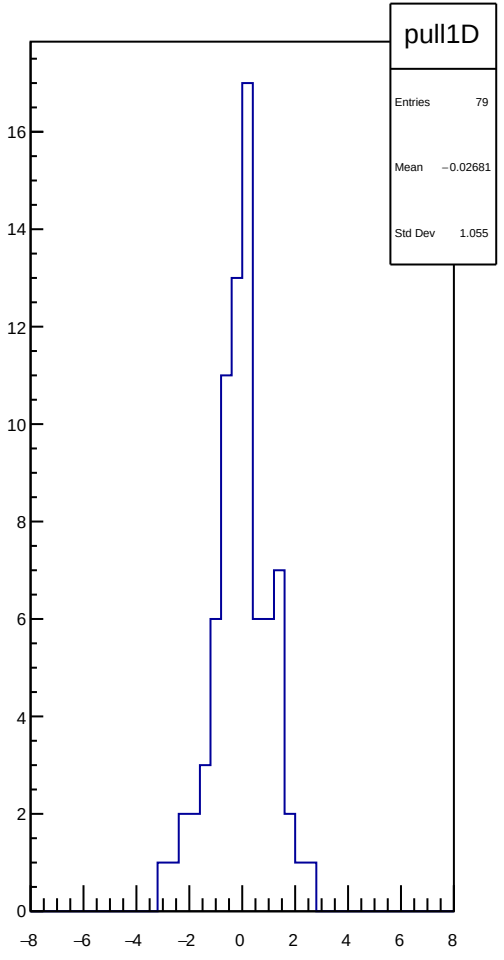

diff_bpm11X_rms vs run
χ² / ndf 4.503e+04 / 78
p0 1.748e+04 ± 14.2
24000
22000
20000
18000
16000
14000
12000
10000

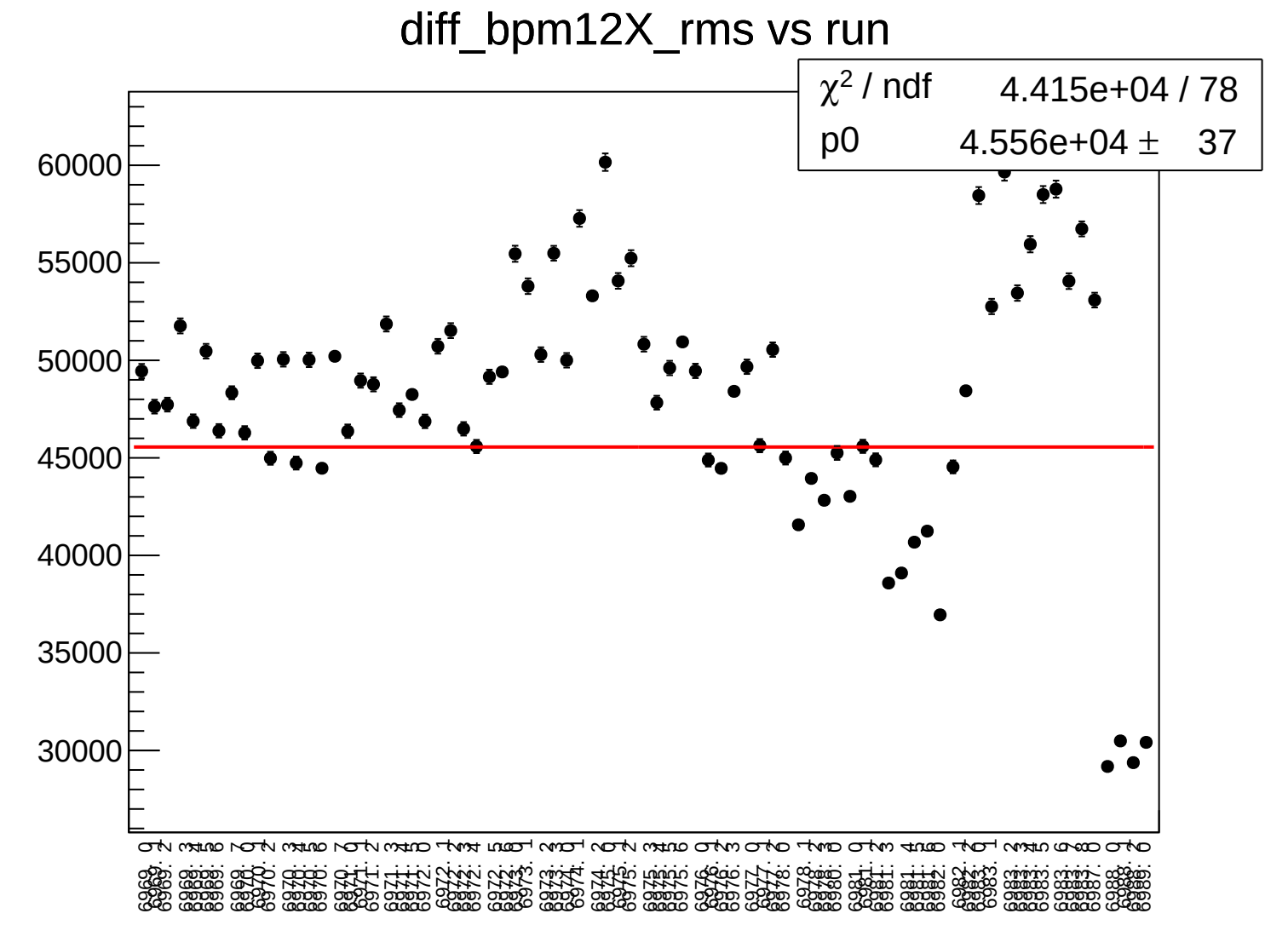

diff_bpm11Y_mean vs run
χ² / ndf 56.82 / 78
p0 −5.285 ± 7.902
200
100
0
−100
−200
−300
pull
Entries 79
Mean 3397
Std Dev 3356
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

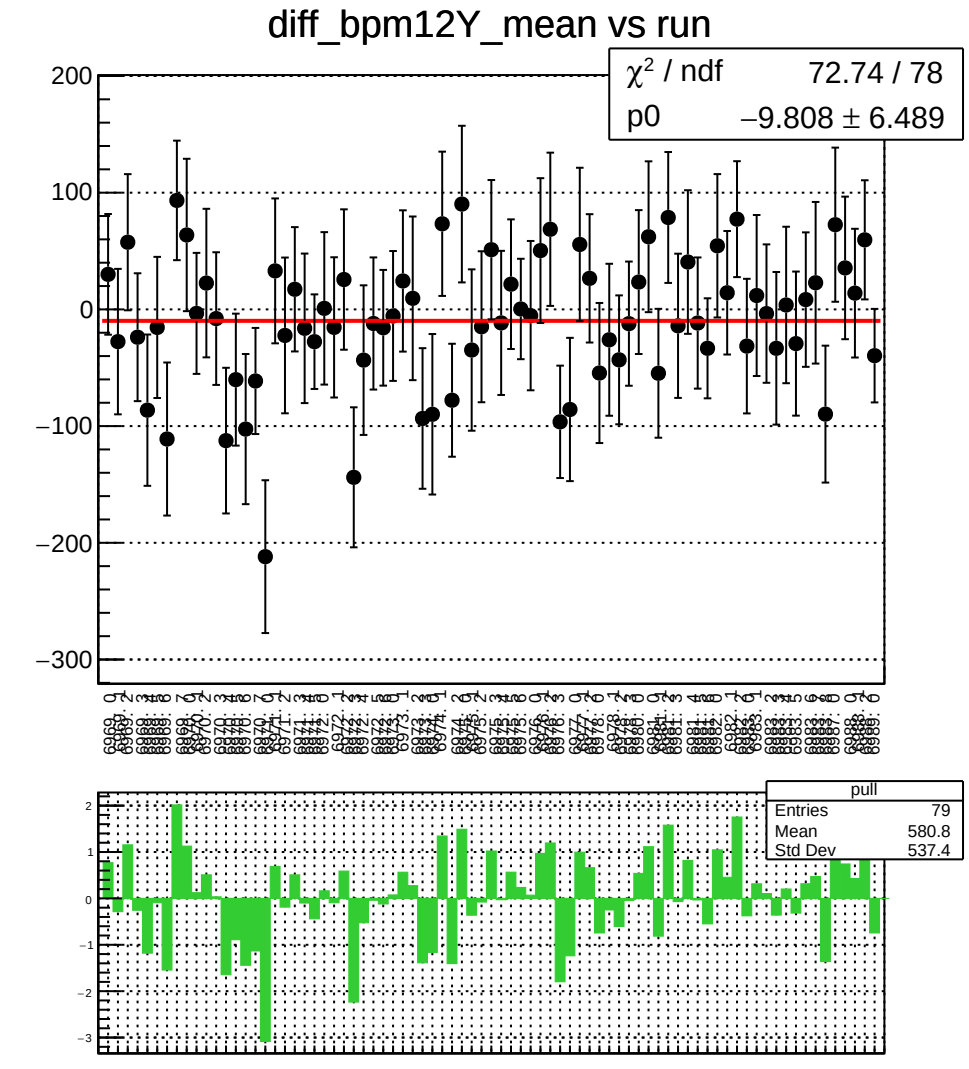

pull1D
Entries 79
Mean 0.001382
Std Dev 0.8481
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

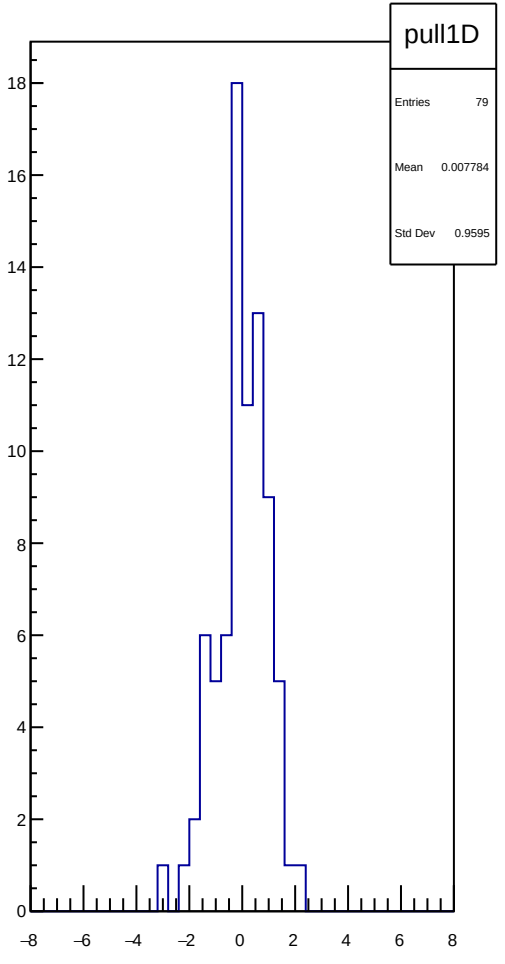

diff_bpm11Y_rms vs run
χ² / ndf 1.853e+04 / 78
p0 6938 ± 5.588
8500
8000
7500
7000
6500
6000
5500

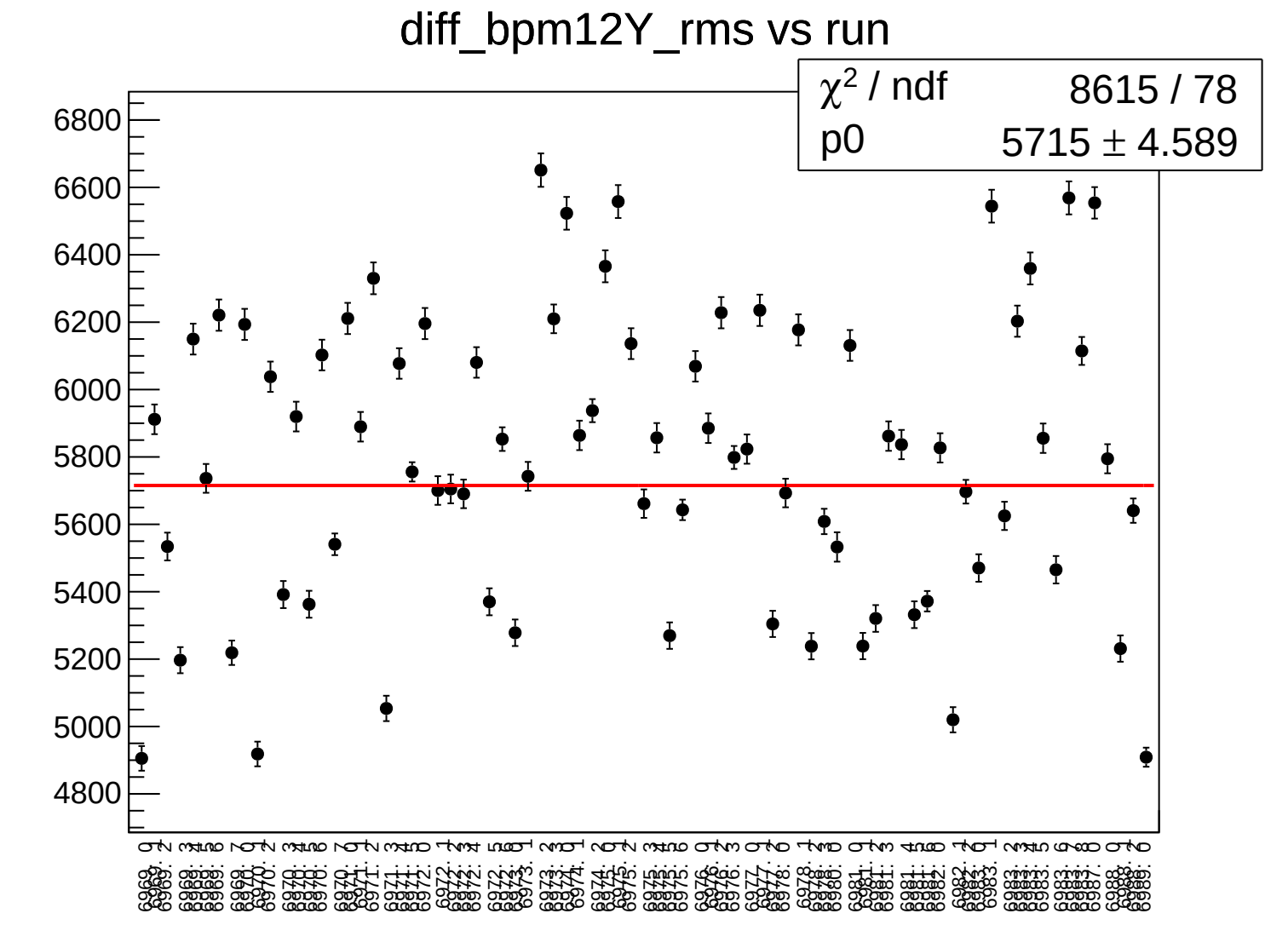

diff_bpm12X_mean vs run
χ² / ndf 87.91 / 78
p0 −78.09 ± 52.33
1500
1000
500
0
−500
−1000
−1500
−2000
pull
Entries 79
Mean −71.25
Std Dev 115.8
2
1
0
−1
−2
−3

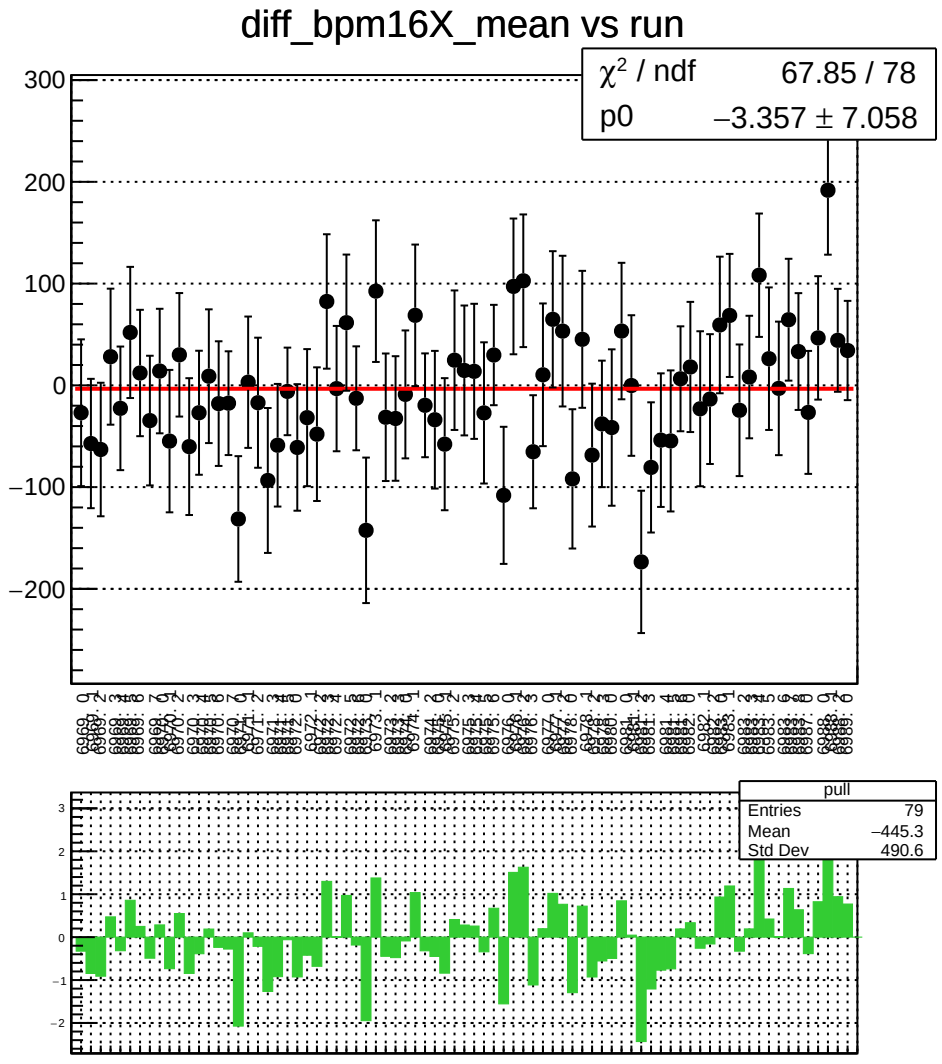

pull1D
Entries 79
Mean −0.02681
Std Dev 1.055
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

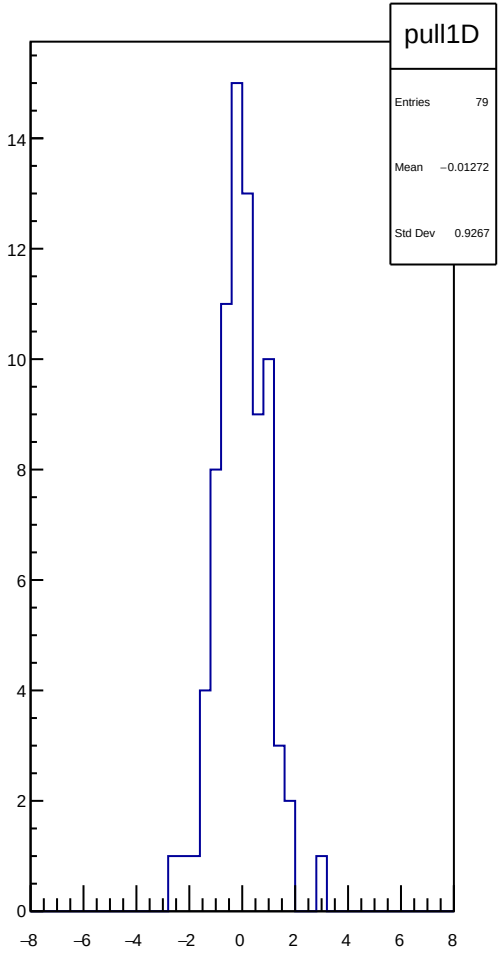

diff_bpm12X_rms vs run
χ² / ndf 4.415e+04 / 78
p0 4.556e+04 ± 37
60000
55000
50000
45000
40000
35000
30000

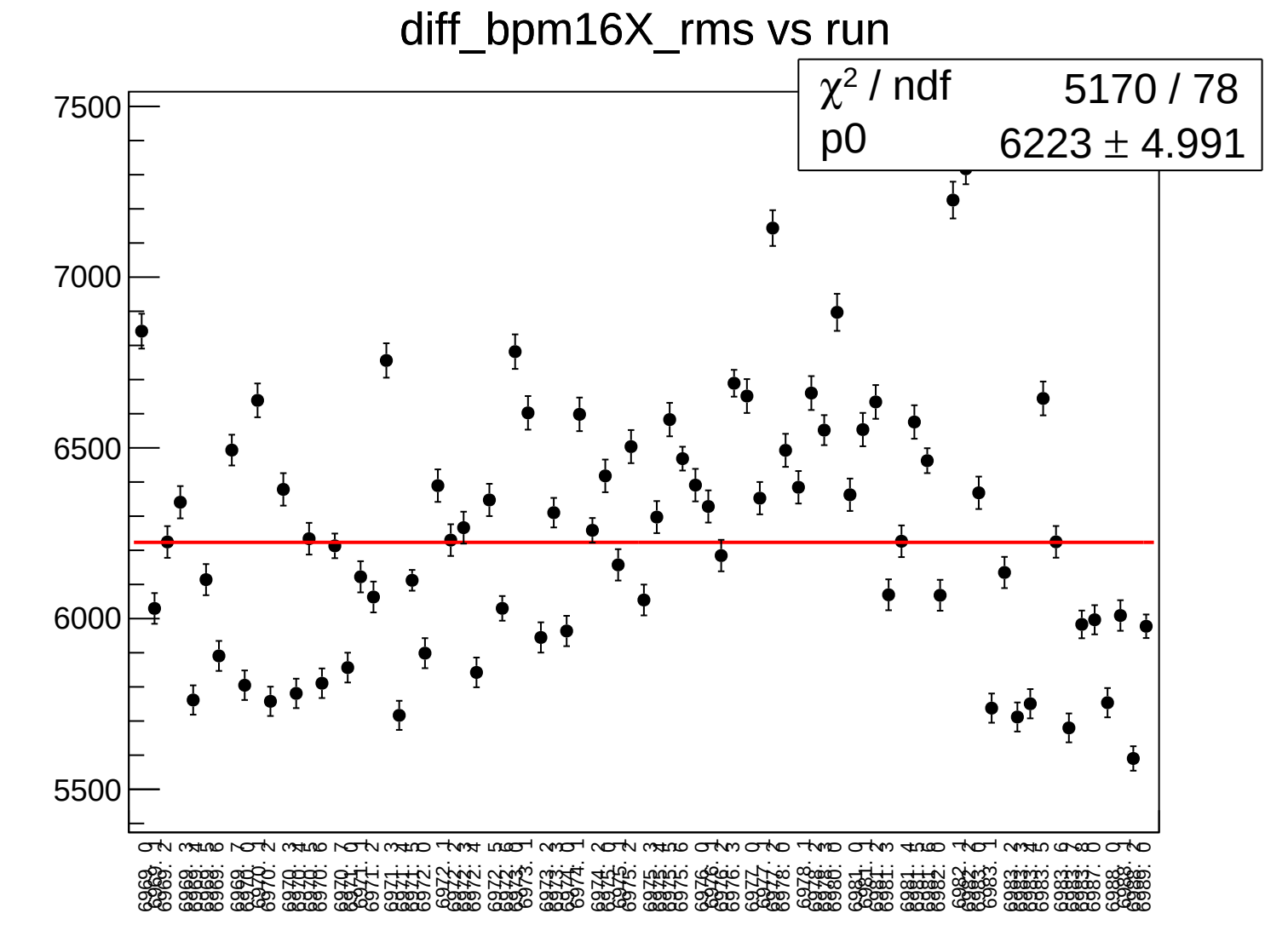

diff_bpm12Y_mean vs run
χ² / ndf 72.74 / 78
p0 −9.808 ± 6.489
pull
Entries 79
Mean 580.8
Std Dev 537.4

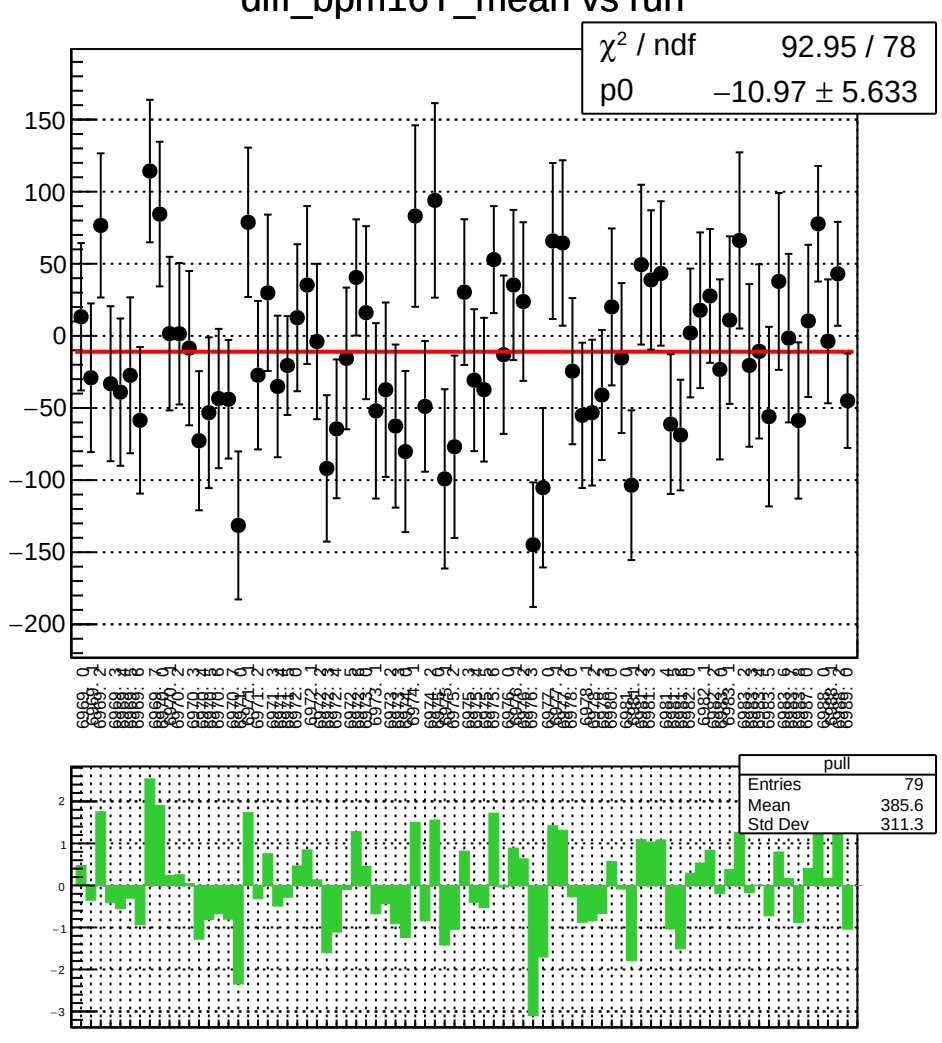

pull1D
Entries 79
Mean 0.007784
Std Dev 0.9595

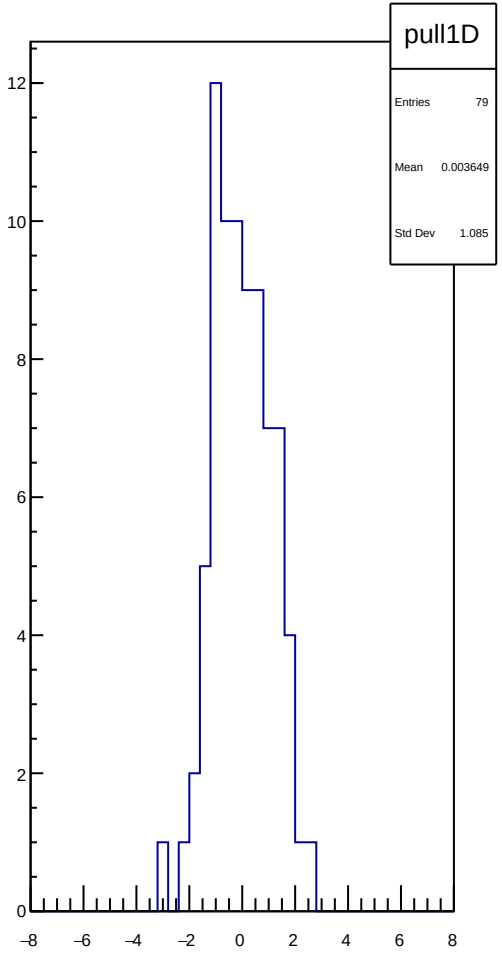

diff_bpm12Y_rms vs run
χ² / ndf 8615 / 78
p0 5715 ± 4.589
6800
6600
6400
6200
6000
5800
5600
5400
5200
5000
4800

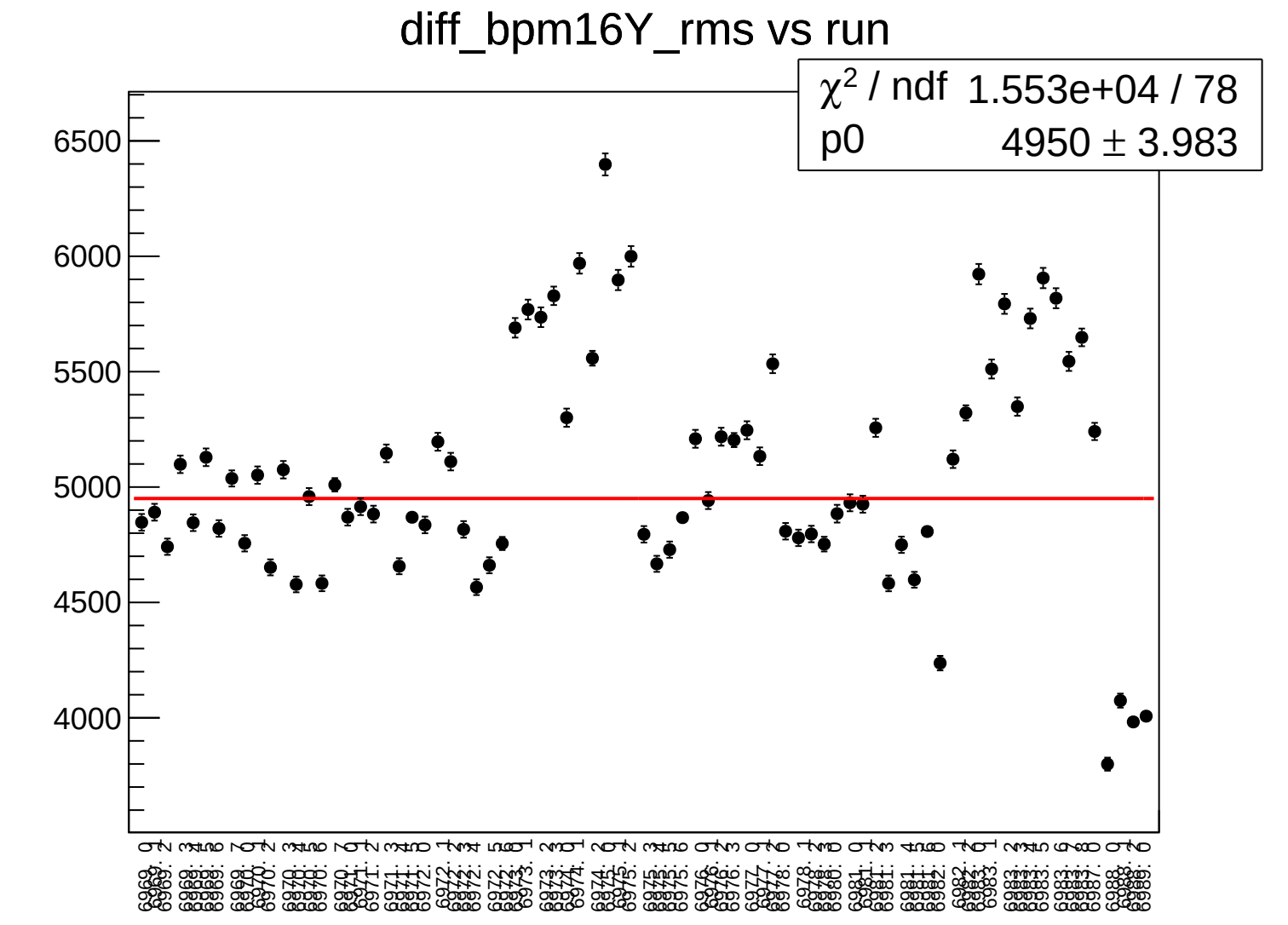

diff_bpm16X_mean vs run
χ² / ndf 67.85 / 78
p0 −3.357 ± 7.058
pull
Entries 79
Mean −445.3
Std Dev 490.6

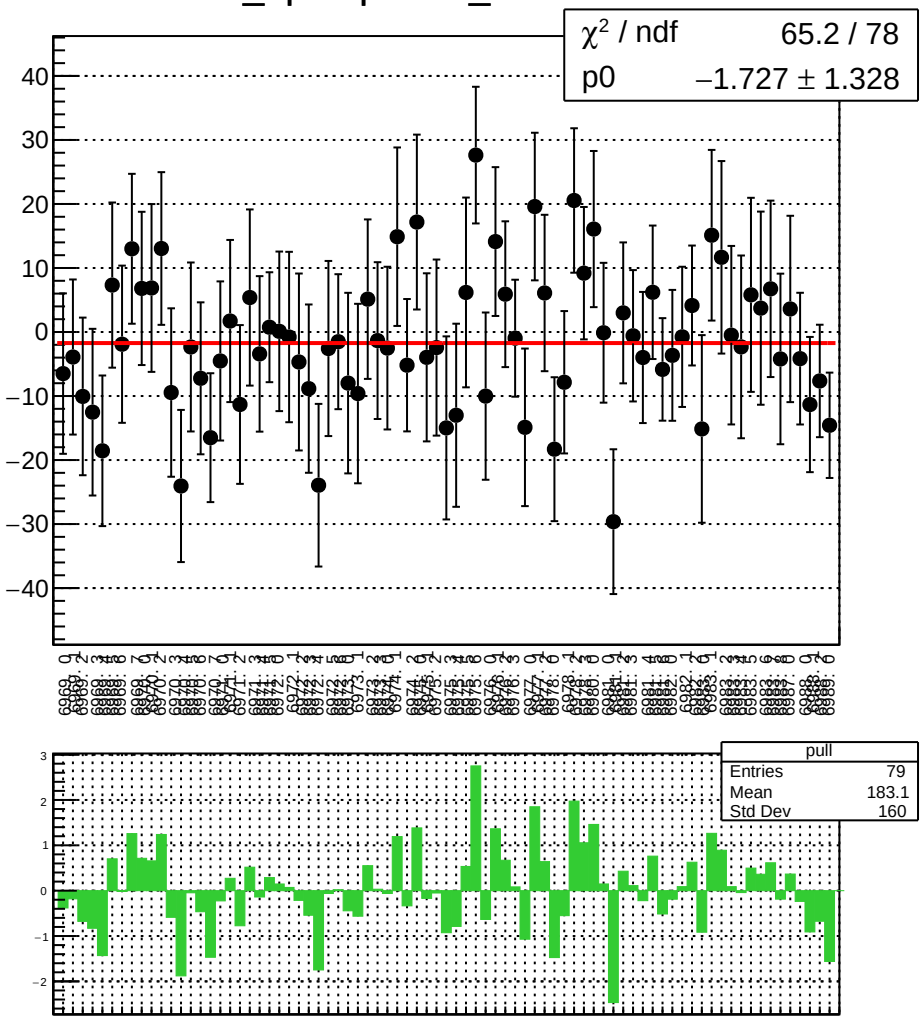

pull1D
Entries 79
Mean −0.01272
Std Dev 0.9267

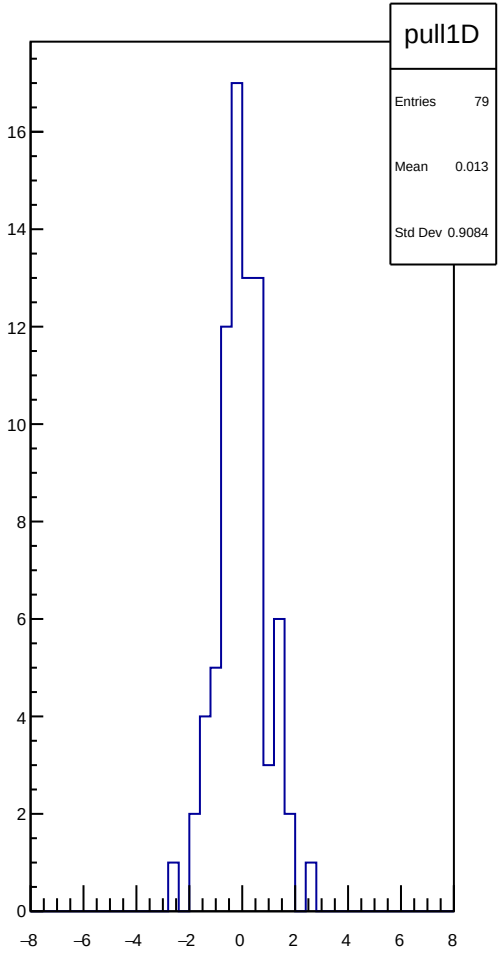

diff_bpm16X_rms vs run
χ² / ndf 5170 / 78
p0 6223 ± 4.991
7500
7000
6500
6000
5500

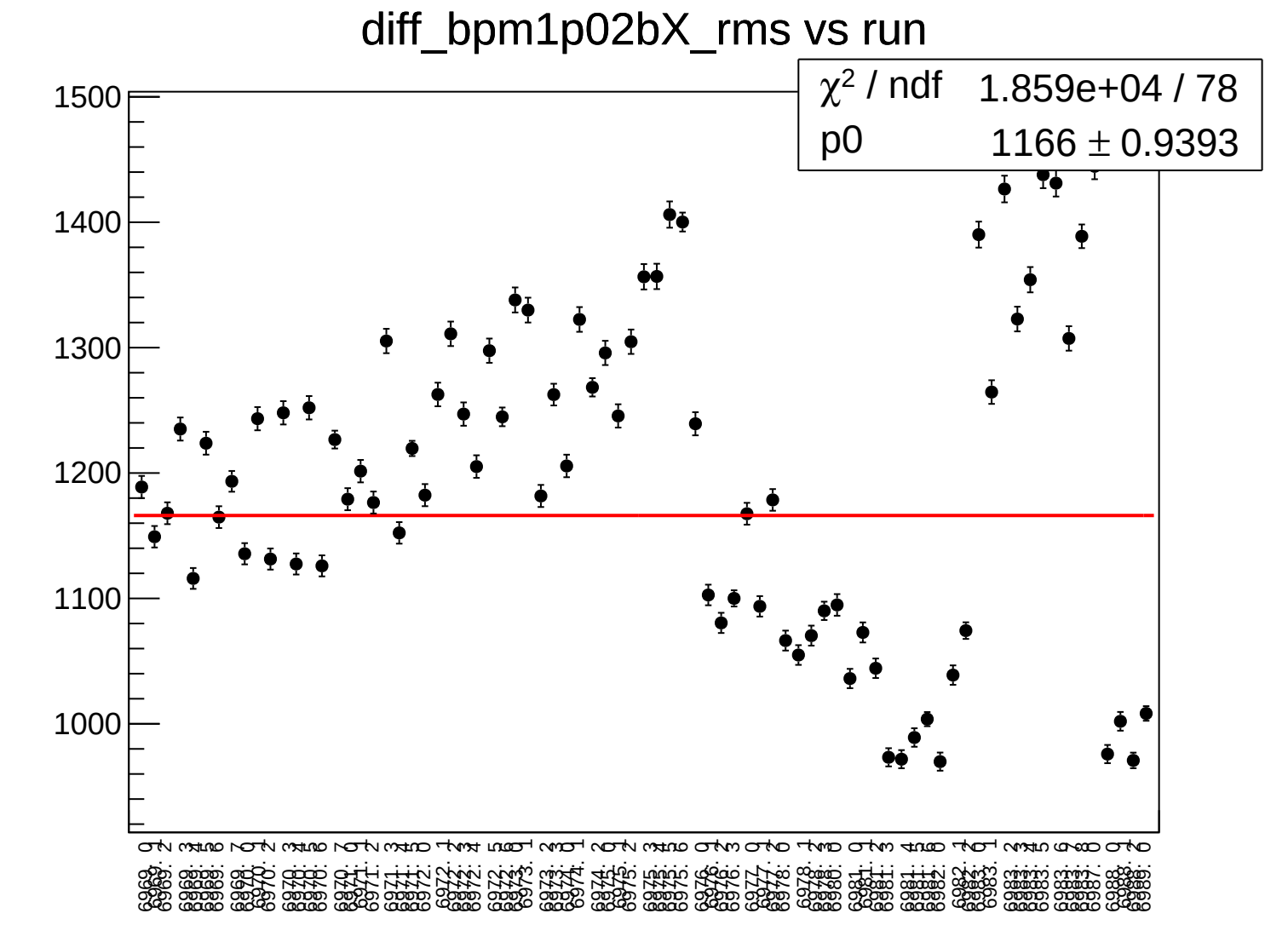

diff_bpm16Y_mean vs run
χ² / ndf 92.95 / 78
p0 −10.97 ± 5.633
pull
Entries 79
Mean 385.6
Std Dev 311.3

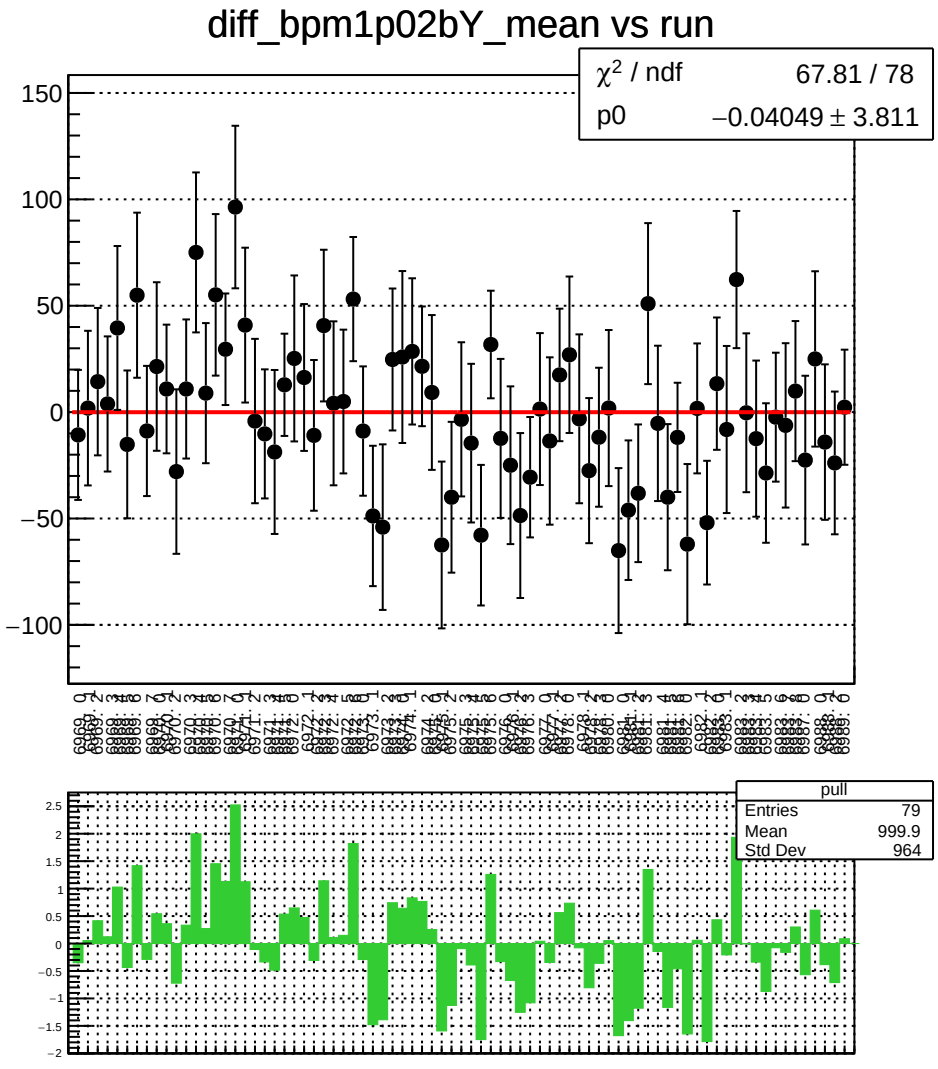

pull1D
Entries 79
Mean 0.003649
Std Dev 1.085

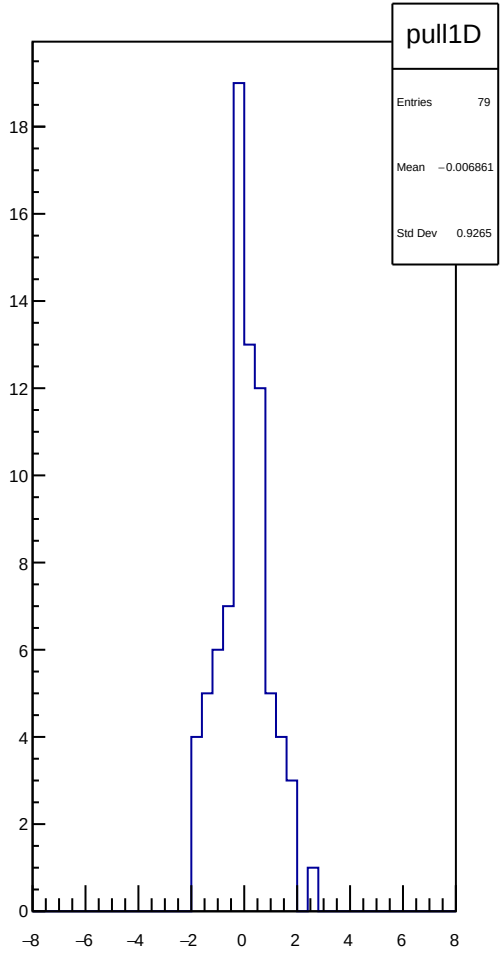

diff_bpm16Y_rms vs run
χ² / ndf 1.553e+04 / 78
p0 4950 ± 3.983
6500
6000
5500
5000
4500
4000

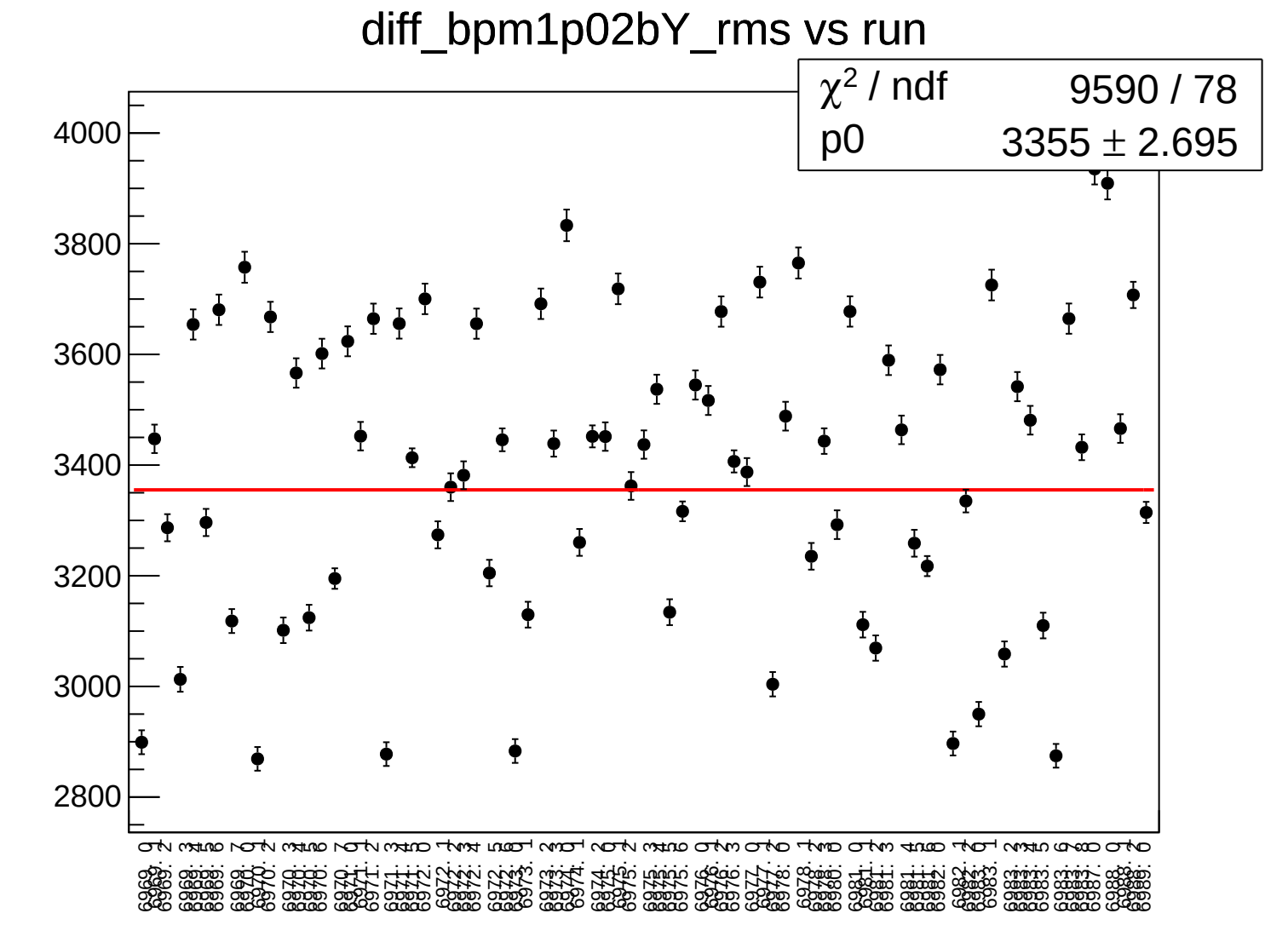

diff_bpm1p02bX_mean vs run
χ² / ndf 65.2 / 78
p0 −1.727 ± 1.328
pull
Entries 79
Mean 183.1
Std Dev 160

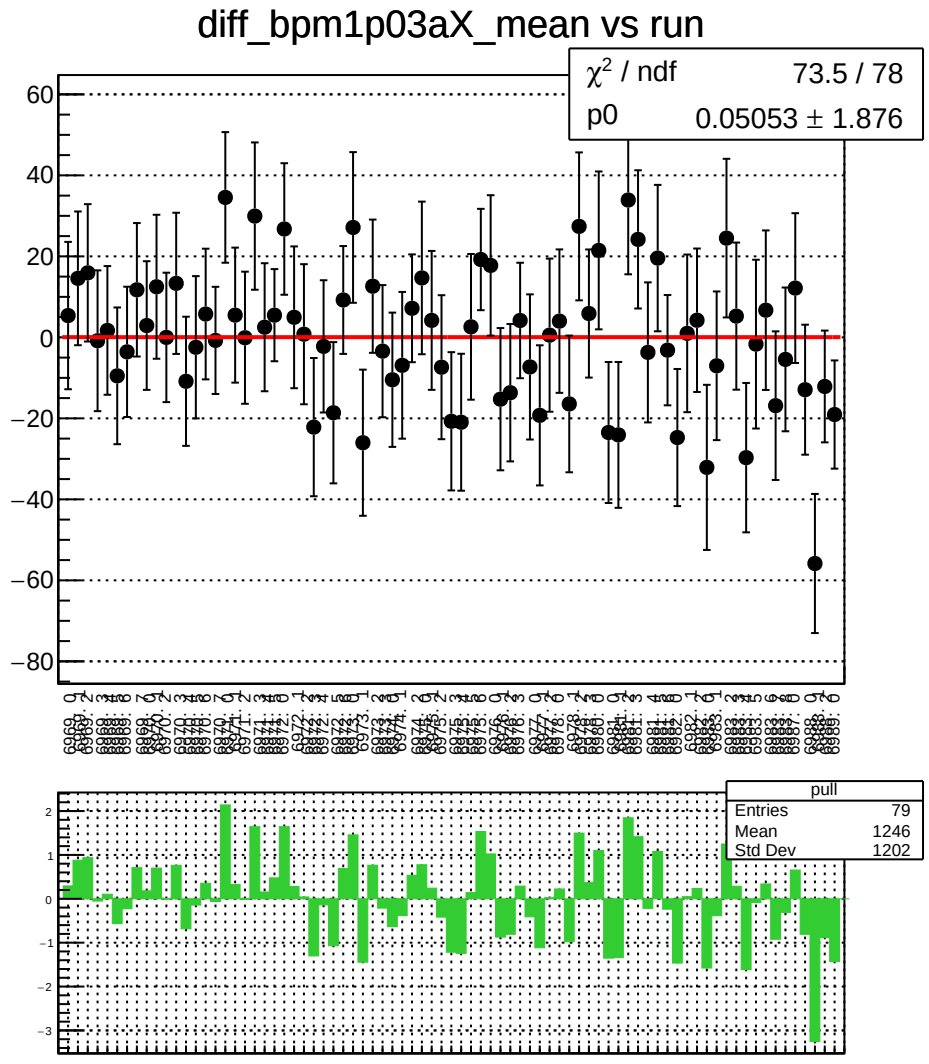

pull1D
Entries 79
Mean 0.013
Std Dev 0.9084

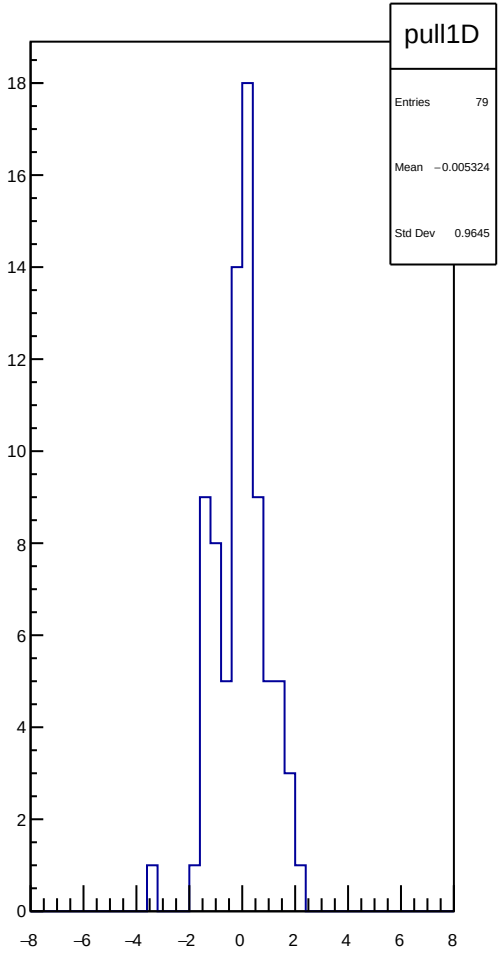

diff_bpm1p02bX_rms vs run
χ² / ndf 1.859e+04 / 78
p0 1166 ± 0.9393
1500
1400
1300
1200
1100
1000

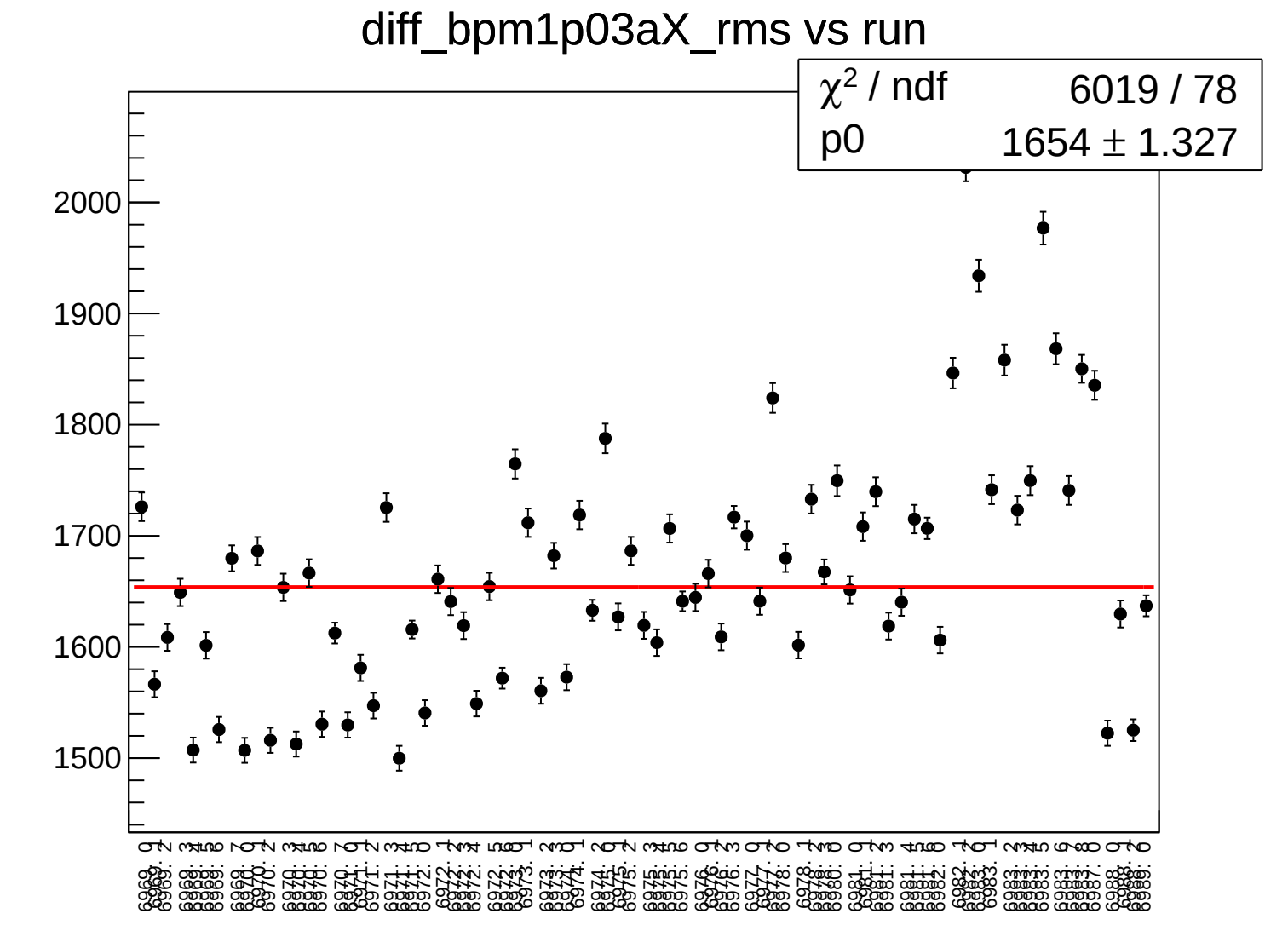

diff_bpm1p02bY_mean vs run
χ² / ndf 67.81 / 78
p0 −0.04049 ± 3.811
150
100
50
0
−50
−100
pull
Entries 79
Mean 999.9
Std Dev 964
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

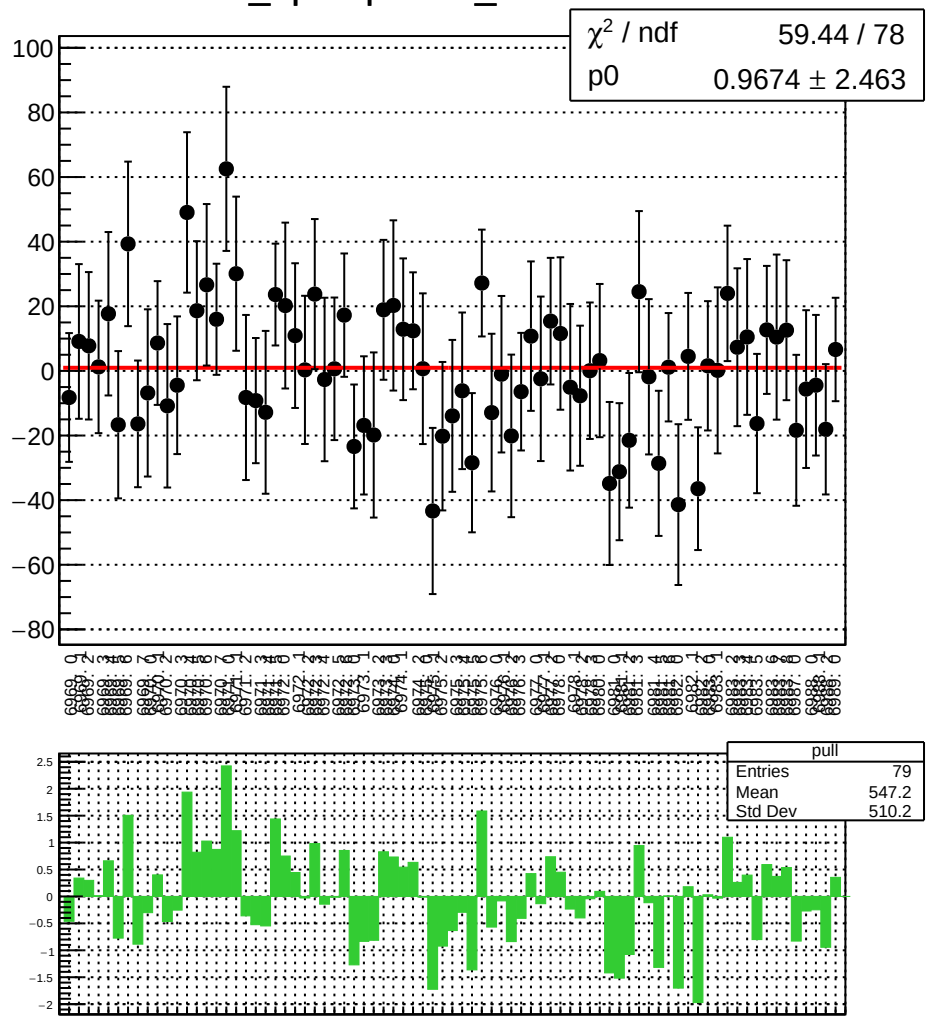

pull1D
Entries 79
Mean −0.006861
Std Dev 0.9265
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

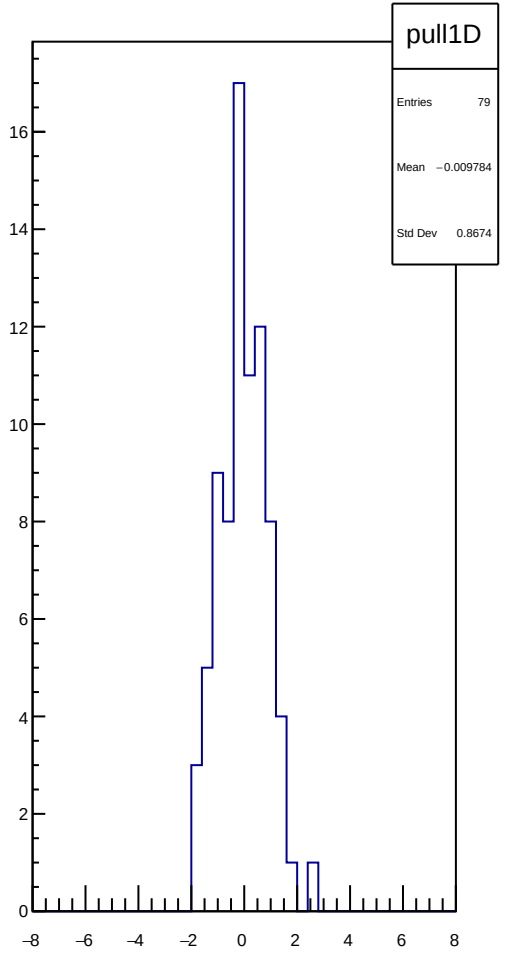

diff_bpm1p02bY_rms vs run
χ² / ndf 9590 / 78
p0 3355 ± 2.695
4000
3800
3600
3400
3200
3000
2800

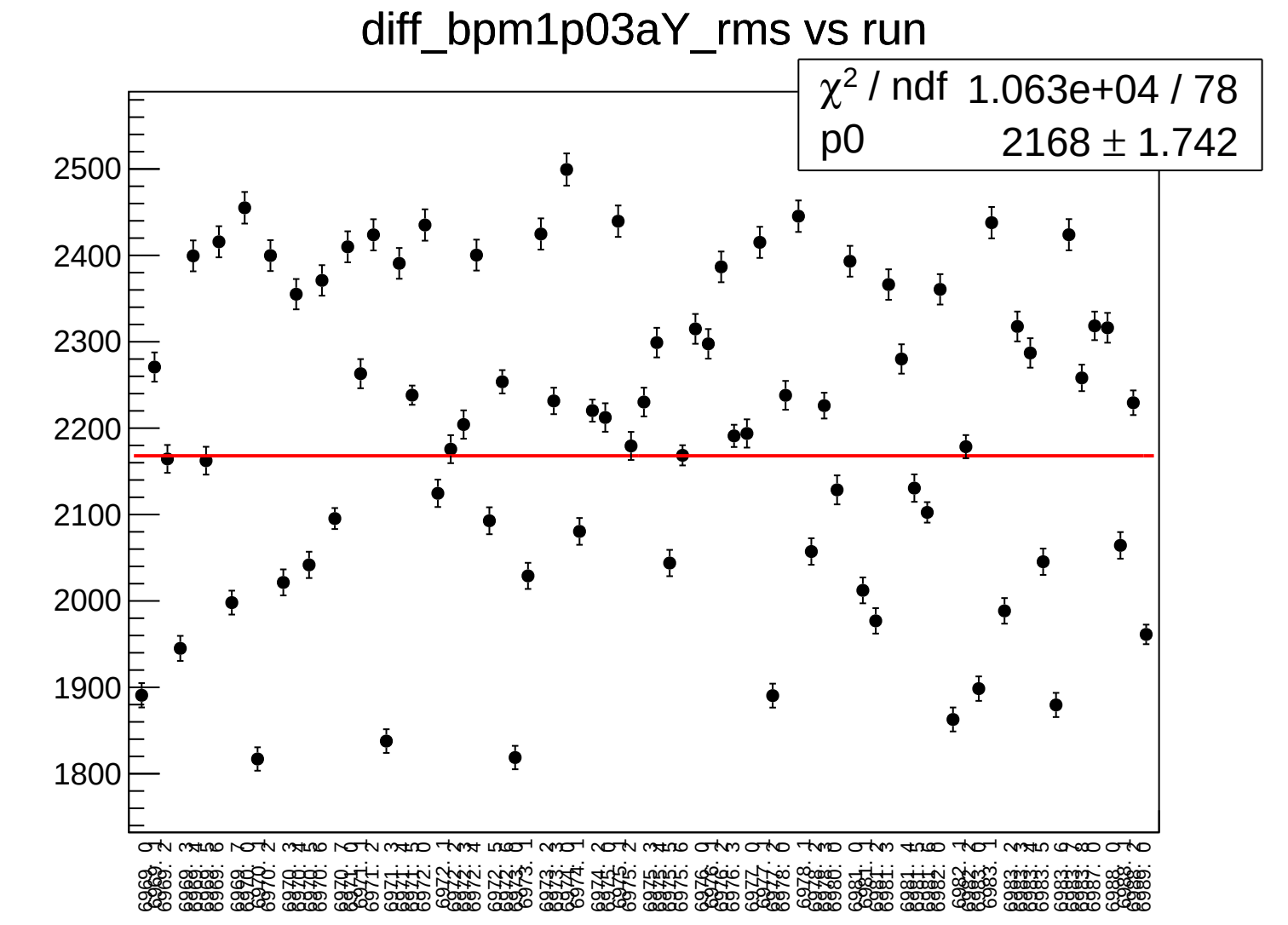

diff_bpm1p03aX_mean vs run
χ² / ndf 73.5 / 78
p0 0.05053 ± 1.876
pull
Entries 79
Mean 1246
Std Dev 1202

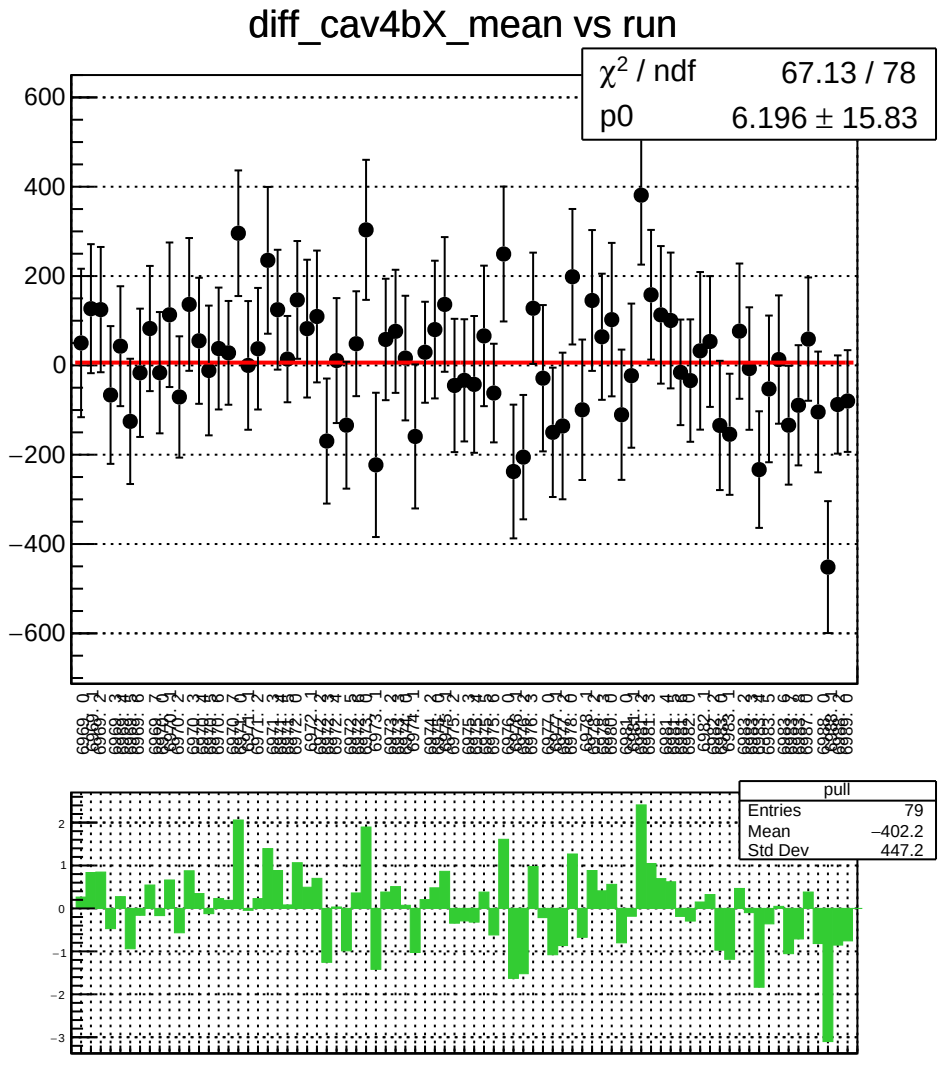

pull1D
Entries 79
Mean −0.005324
Std Dev 0.9645

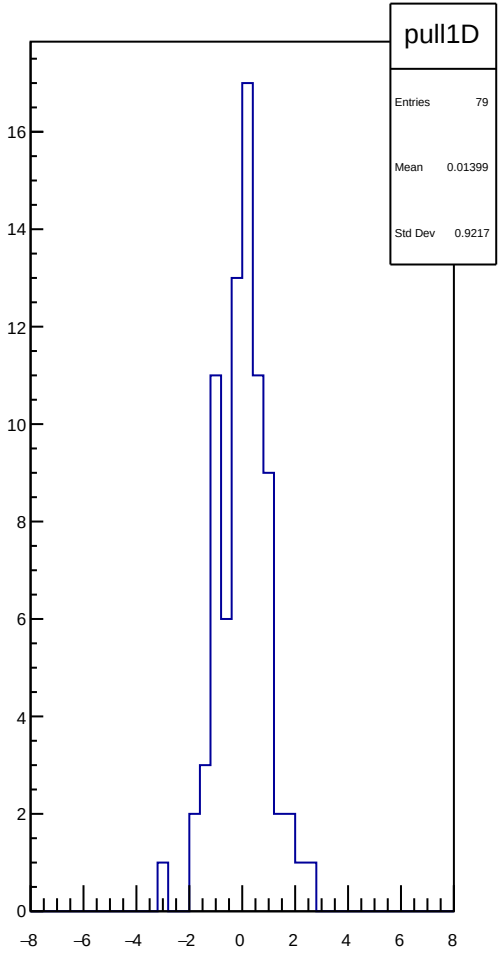

diff_bpm1p03aX_rms vs run
χ² / ndf 6019 / 78
p0 1654 ± 1.327
2000
1900
1800
1700
1600
1500

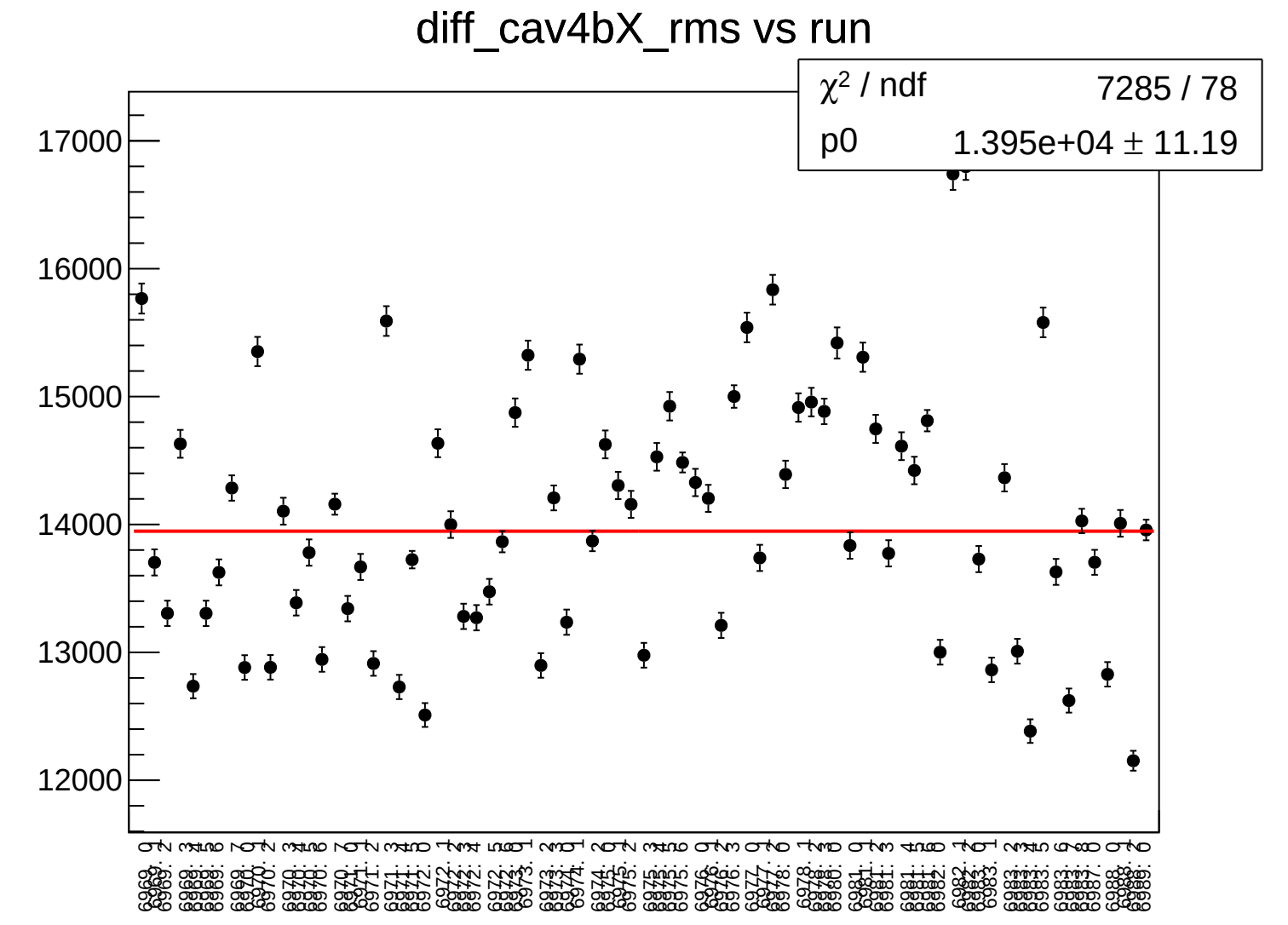

diff_bpm1p03aY_mean vs run
χ² / ndf 59.44 / 78
p0 0.9674 ± 2.463
pull
Entries 79
Mean 547.2
Std Dev 510.2

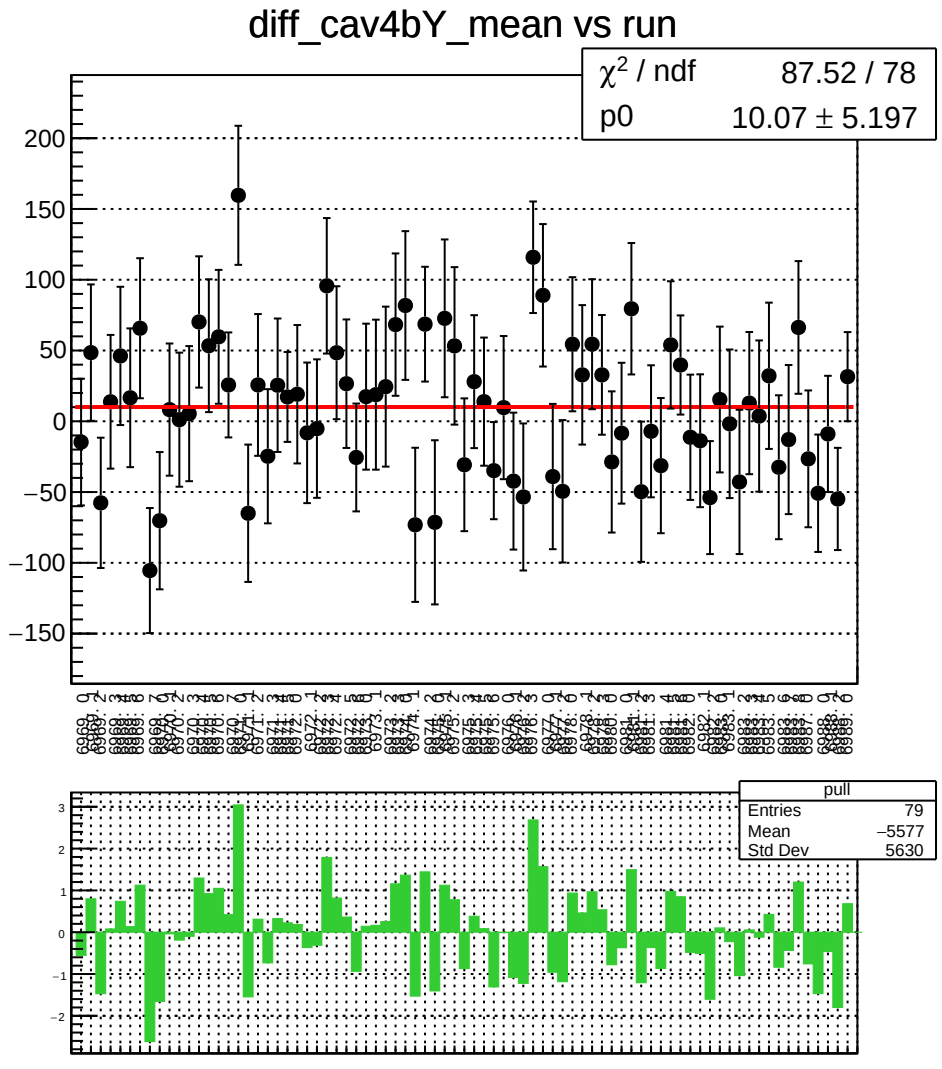

pull1D
Entries 79
Mean −0.009784
Std Dev 0.8674

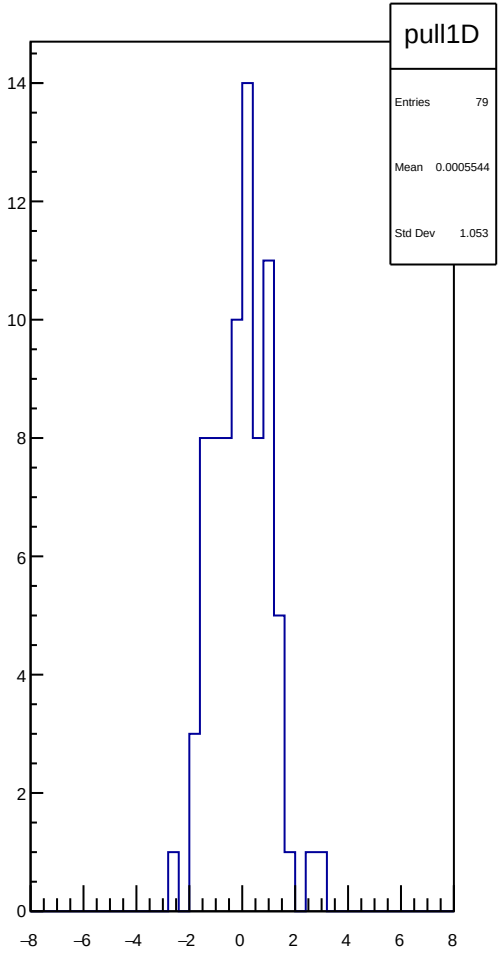

diff_bpm1p03aY_rms vs run
χ² / ndf 1.063e+04 / 78
p0 2168 ± 1.742
2500
2400
2300
2200
2100
2000
1900
1800

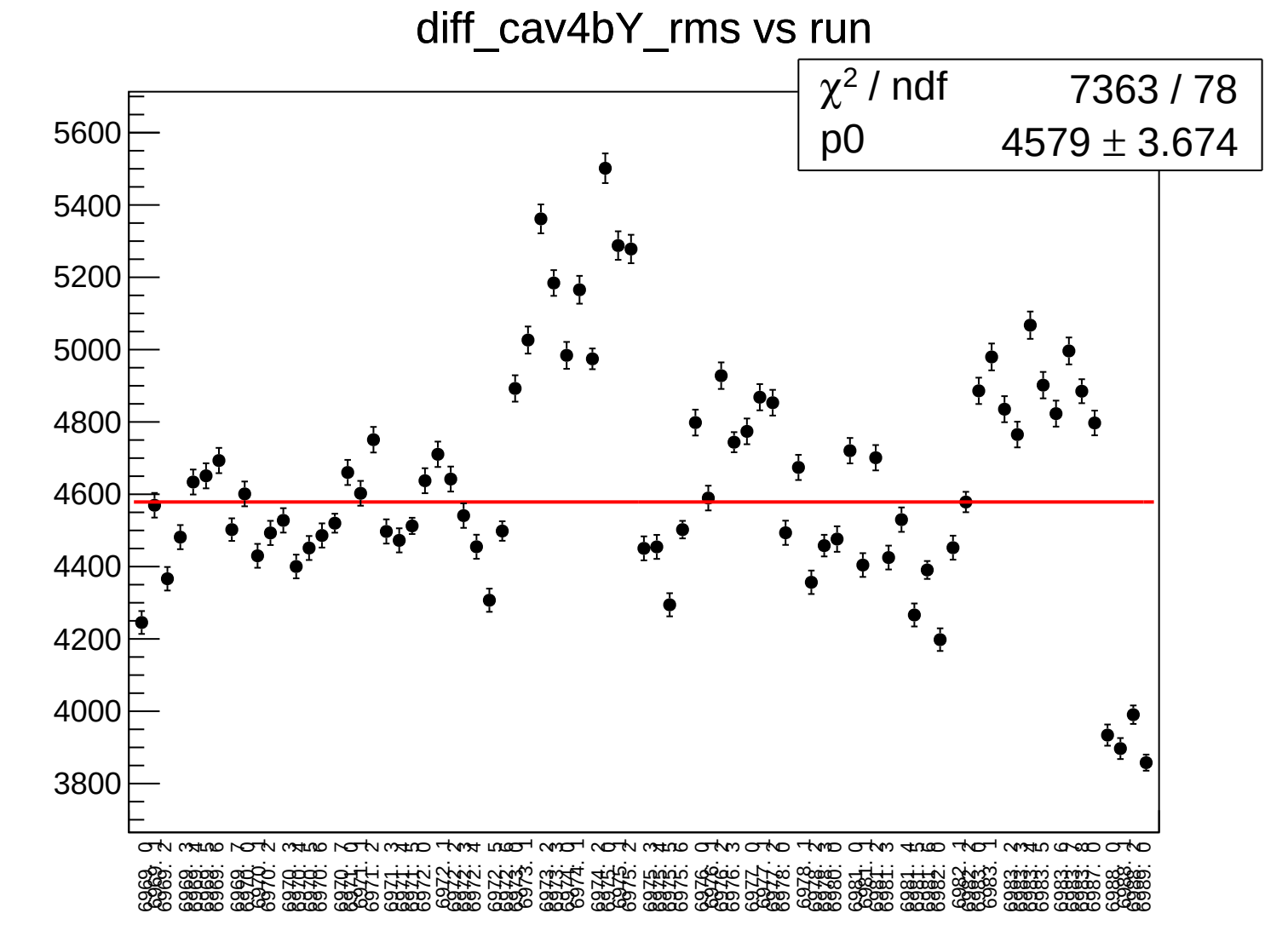

diff_cav4bX_mean vs run
χ^2 / ndf 67.13 / 78
p0 6.196 ± 15.83
pull
Entries 79
Mean −402.2
Std Dev 447.2

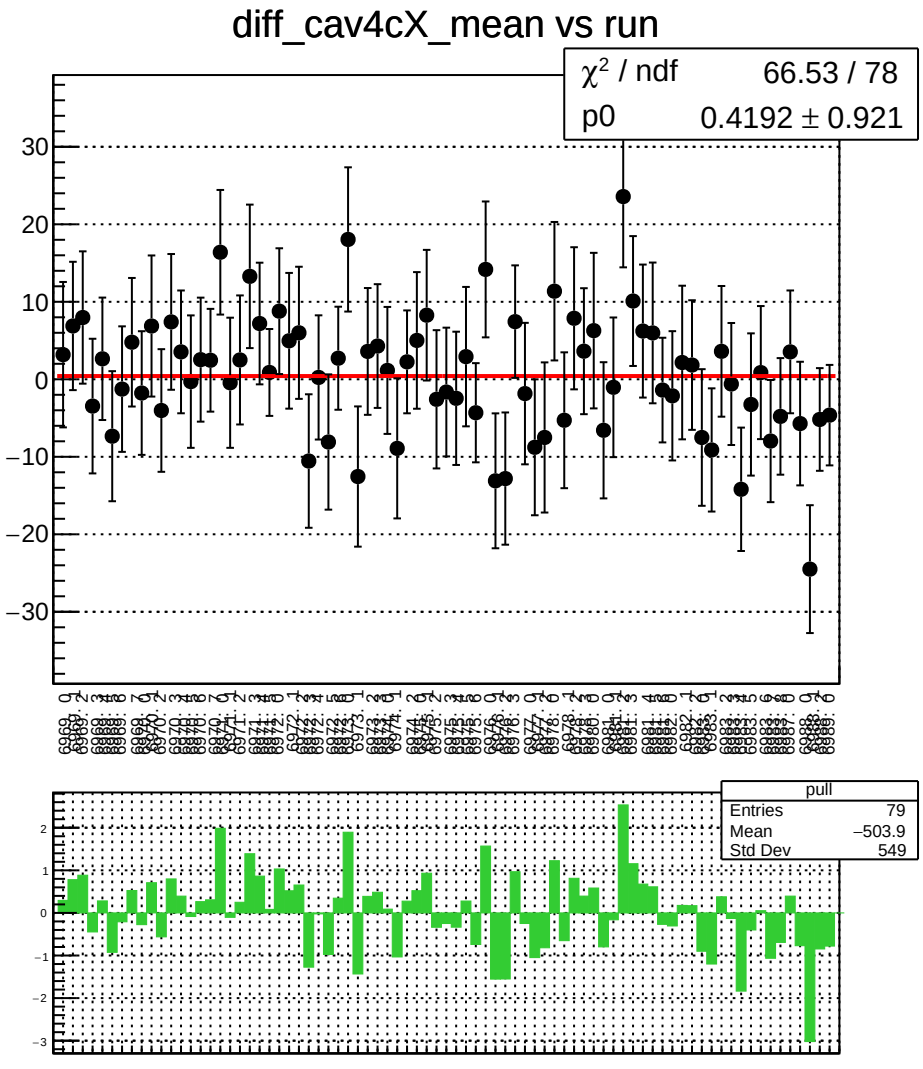

pull1D
Entries 79
Mean 0.01399
Std Dev 0.9217

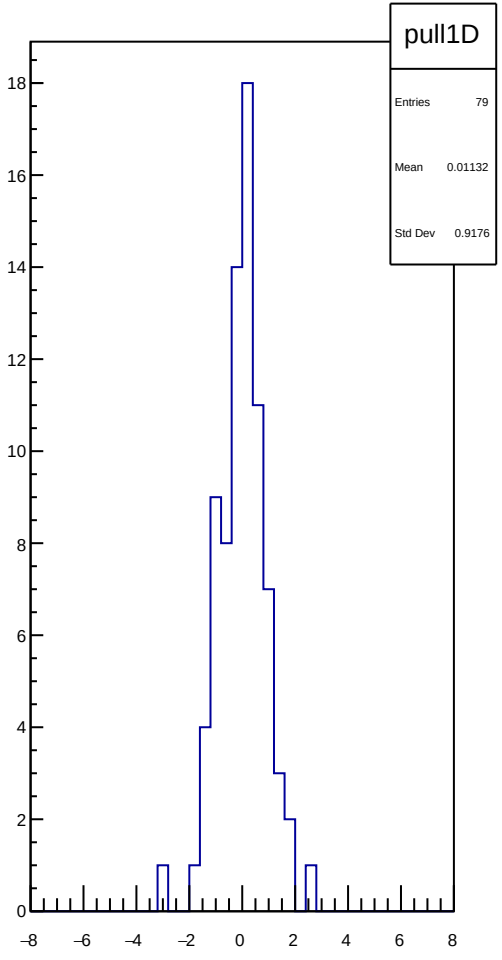

diff_cav4bX_rms vs run
χ² / ndf 7285 / 78
p0 1.395e+04 ± 11.19
17000
16000
15000
14000
13000
12000

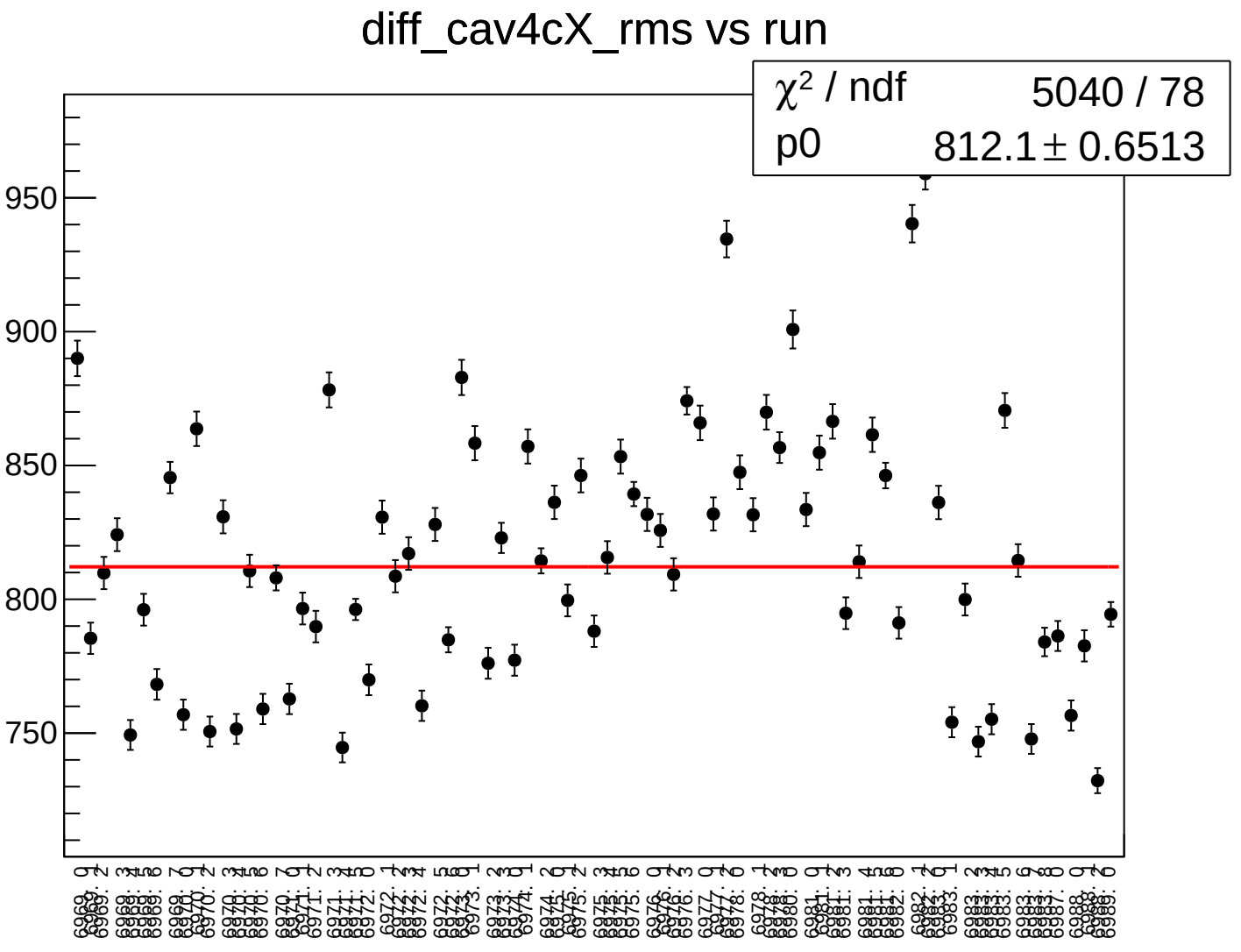

diff_cav4bY_mean vs run
χ² / ndf 87.52 / 78
p0 10.07 ± 5.197
pull
Entries 79
Mean −5577
Std Dev 5630

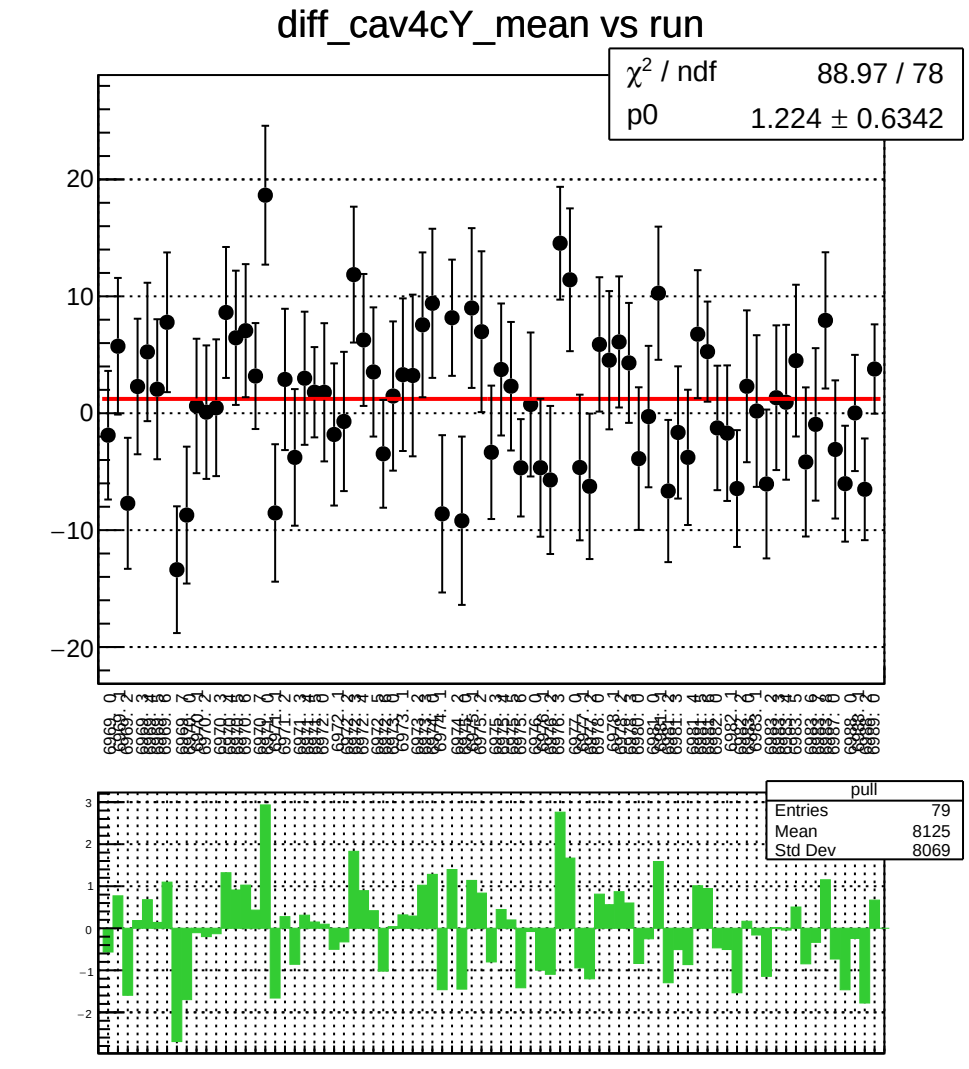

pull1D
Entries 79
Mean 0.0005544
Std Dev 1.053

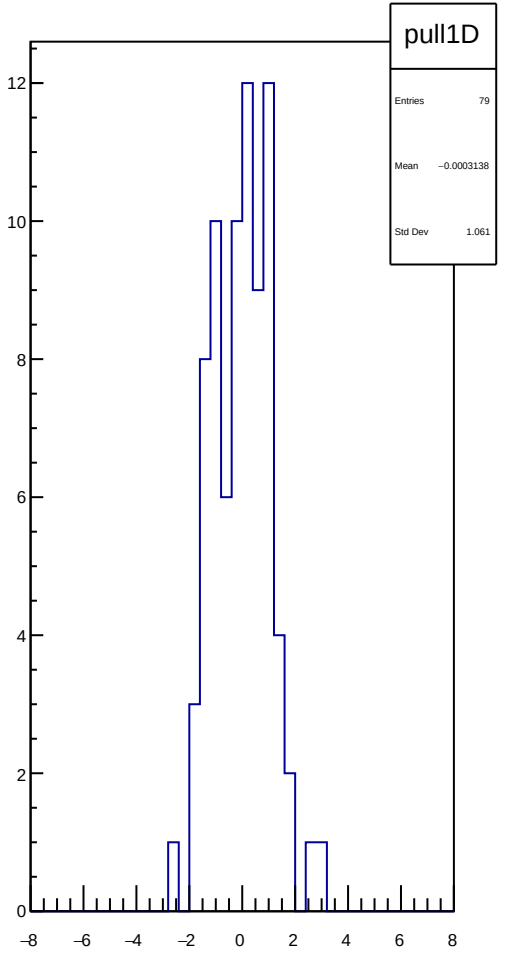

diff_cav4bY_rms vs run
χ² / ndf 7363 / 78
p0 4579 ± 3.674
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

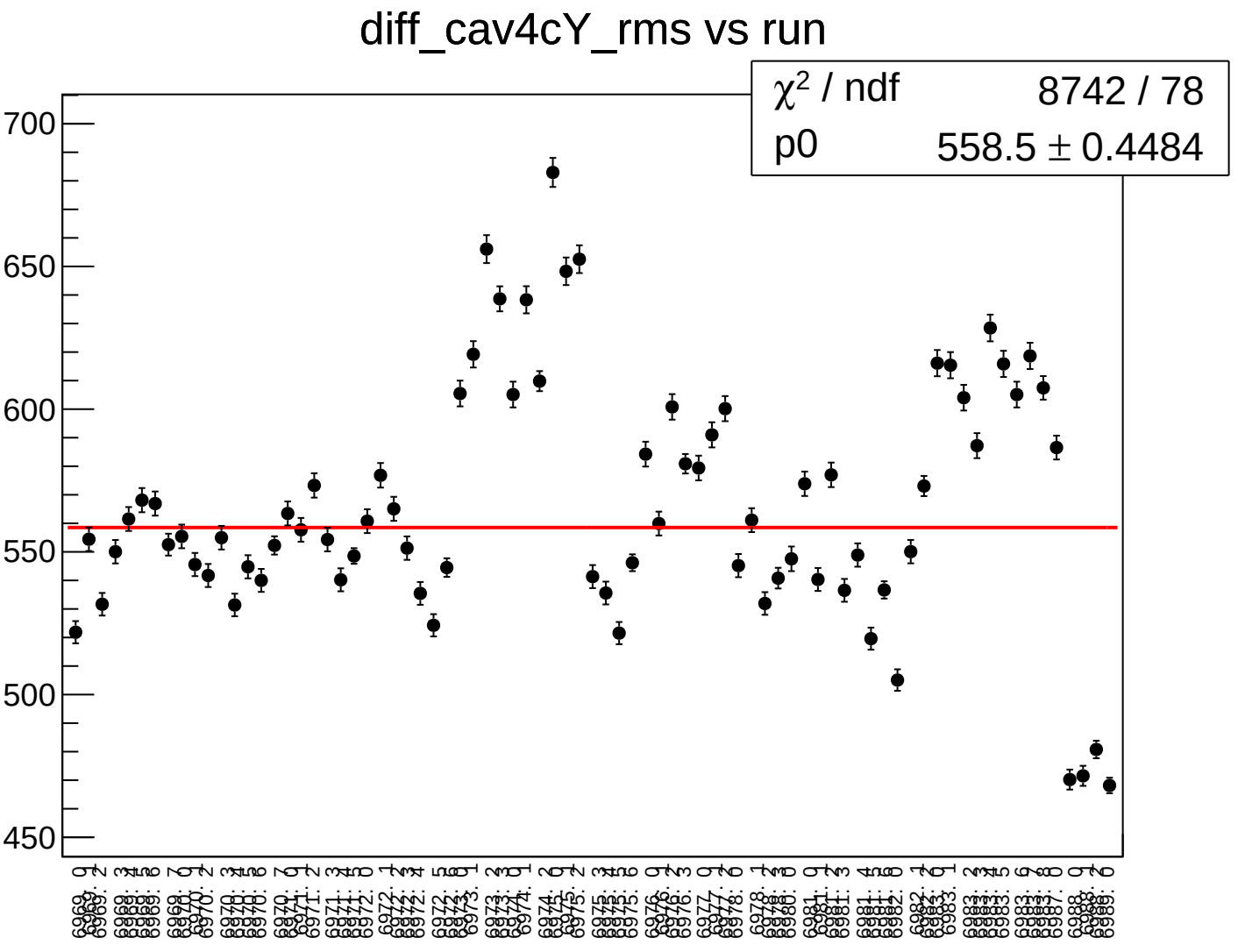

diff_cav4cX_mean vs run
χ² / ndf 66.53 / 78
p0 0.4192 ± 0.921
pull
Entries 79
Mean −503.9
Std Dev 549

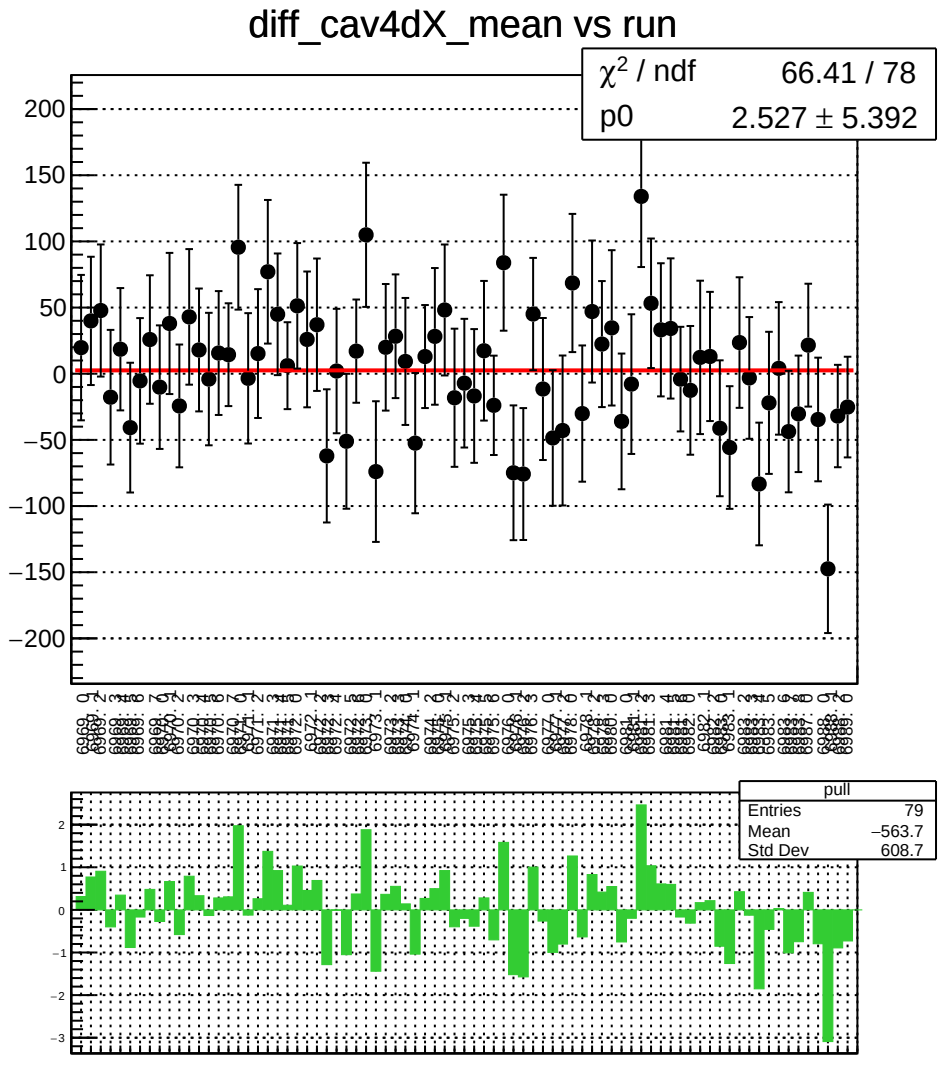

pull1D
Entries 79
Mean 0.01132
Std Dev 0.9176

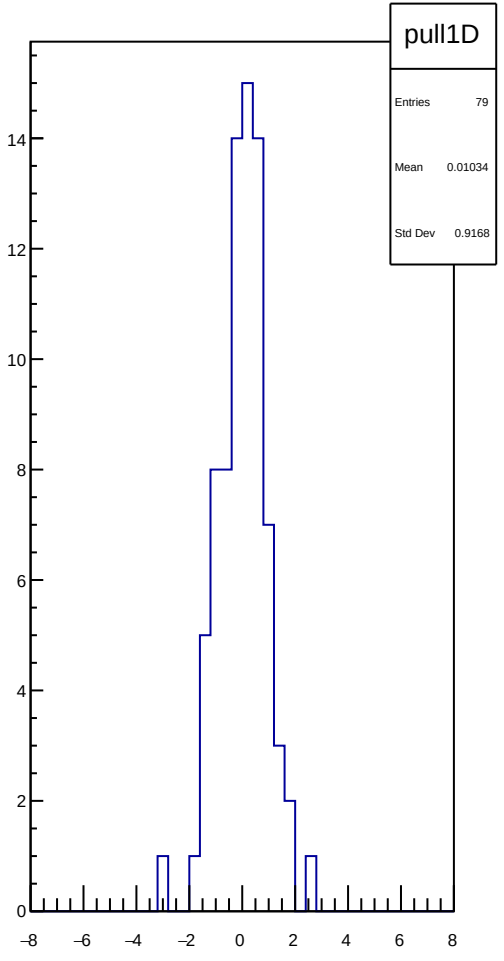

diff_cav4cX_rms vs run
χ² / ndf 5040 / 78
p0 812.1 ± 0.6513
950
900
850
800
750

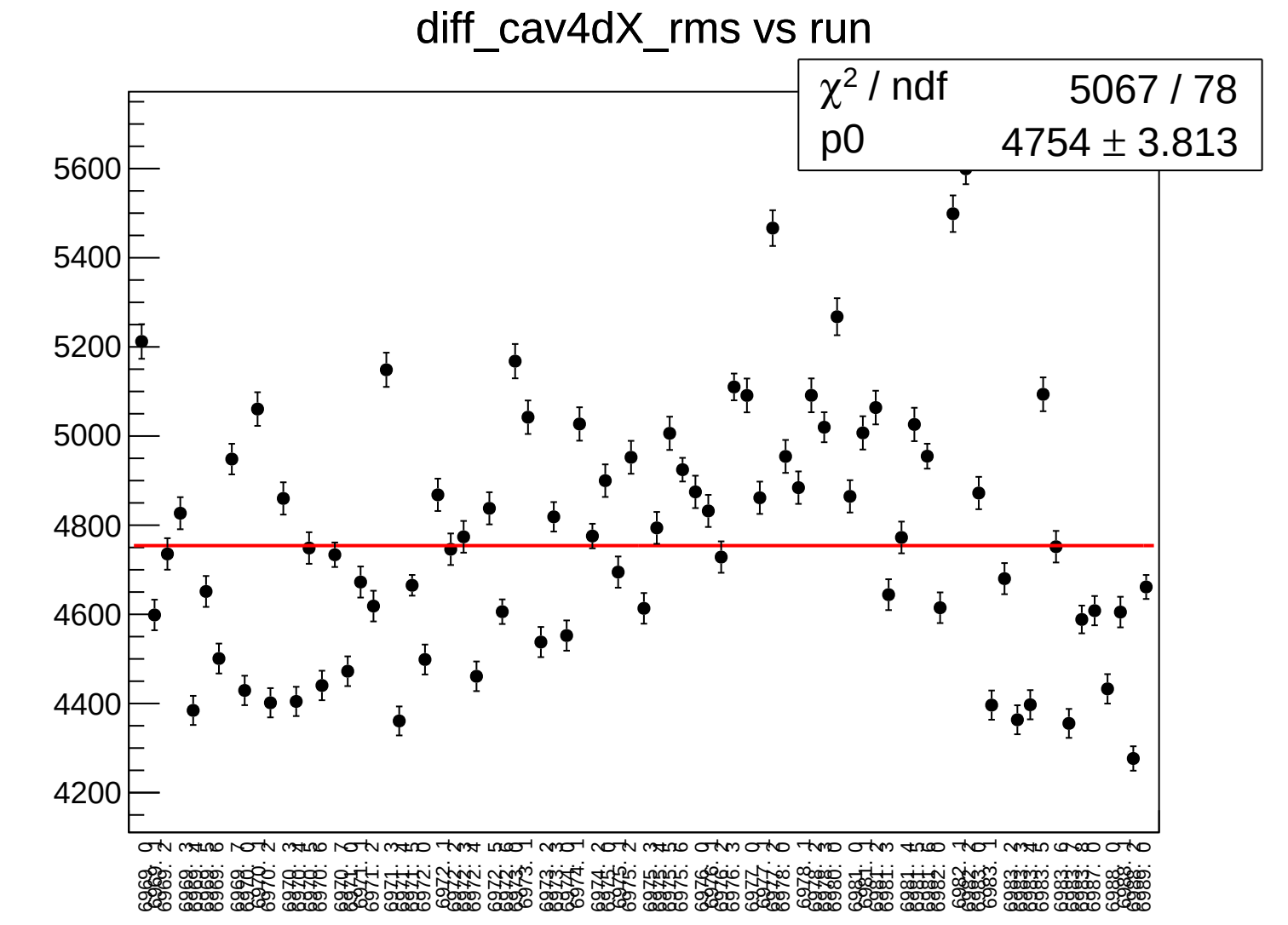

diff_cav4cY_mean vs run
χ² / ndf 88.97 / 78
p0 1.224 ± 0.6342
pull
Entries 79
Mean 8125
Std Dev 8069

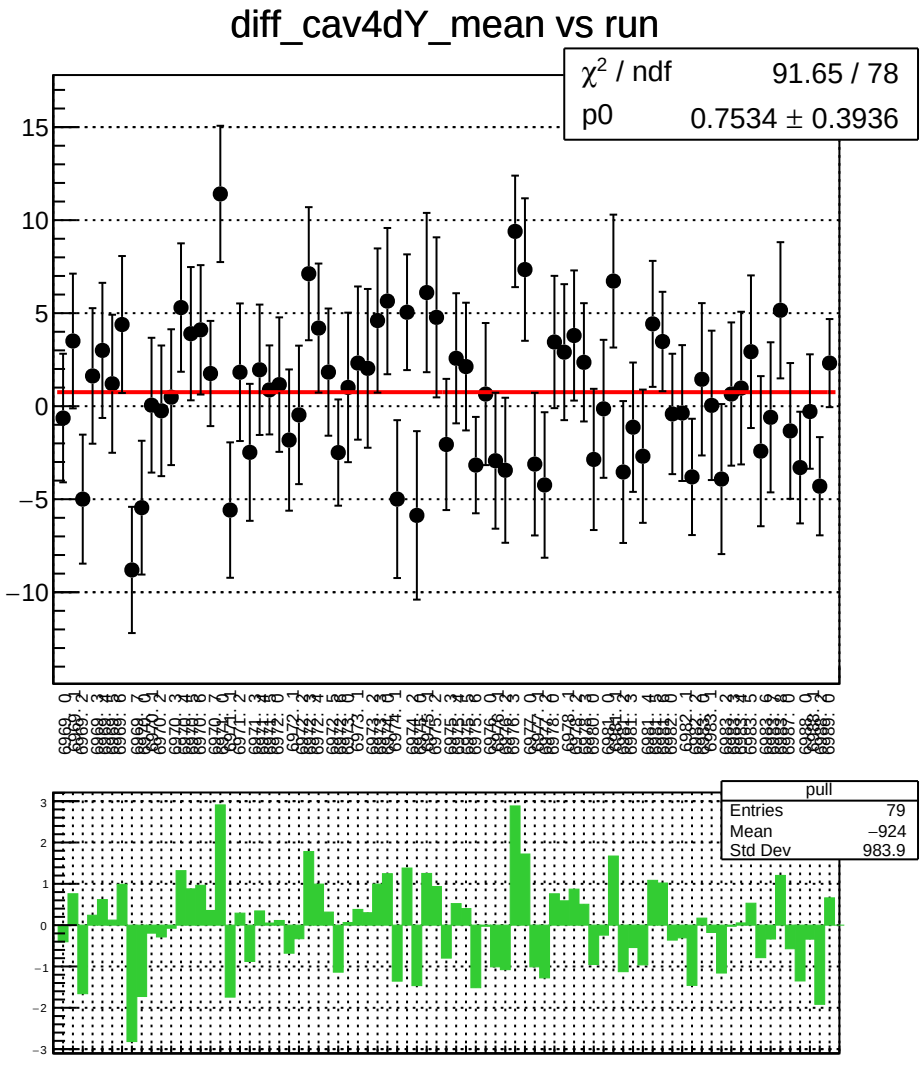

pull1D
Entries 79
Mean −0.0003138
Std Dev 1.061

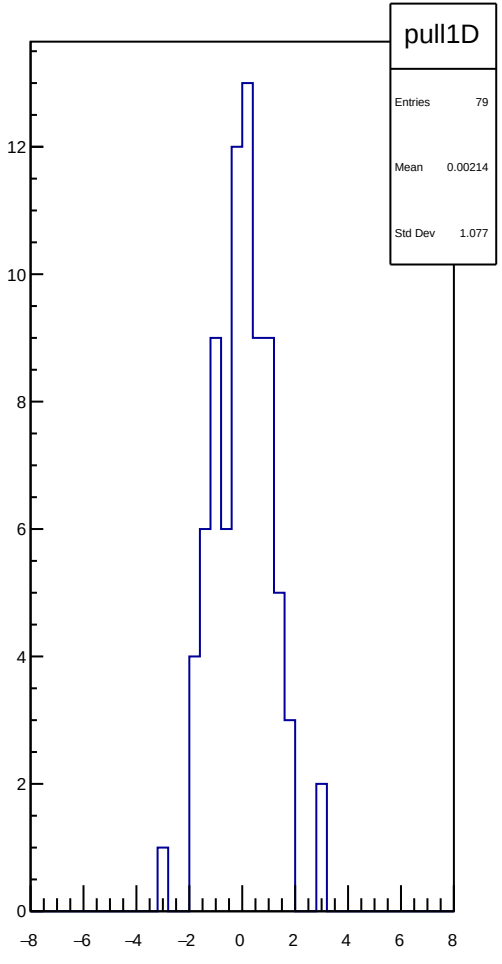

diff_cav4cY_rms vs run
χ² / ndf 8742 / 78
p0 558.5 ± 0.4484
700
650
600
550
500
450

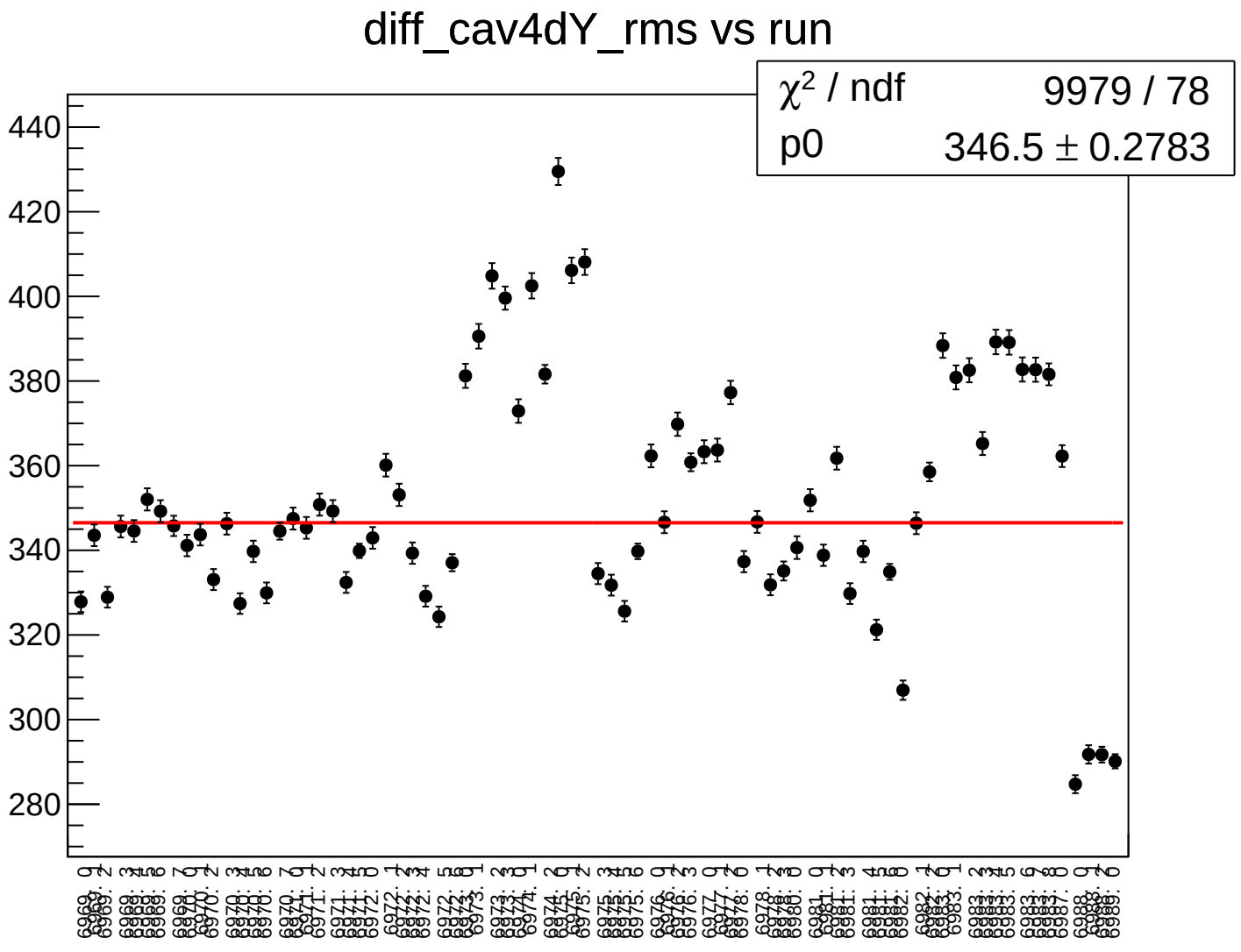

diff_cav4dX_mean vs run
χ² / ndf 66.41 / 78
p0 2.527 ± 5.392
pull
Entries 79
Mean −563.7
Std Dev 608.7

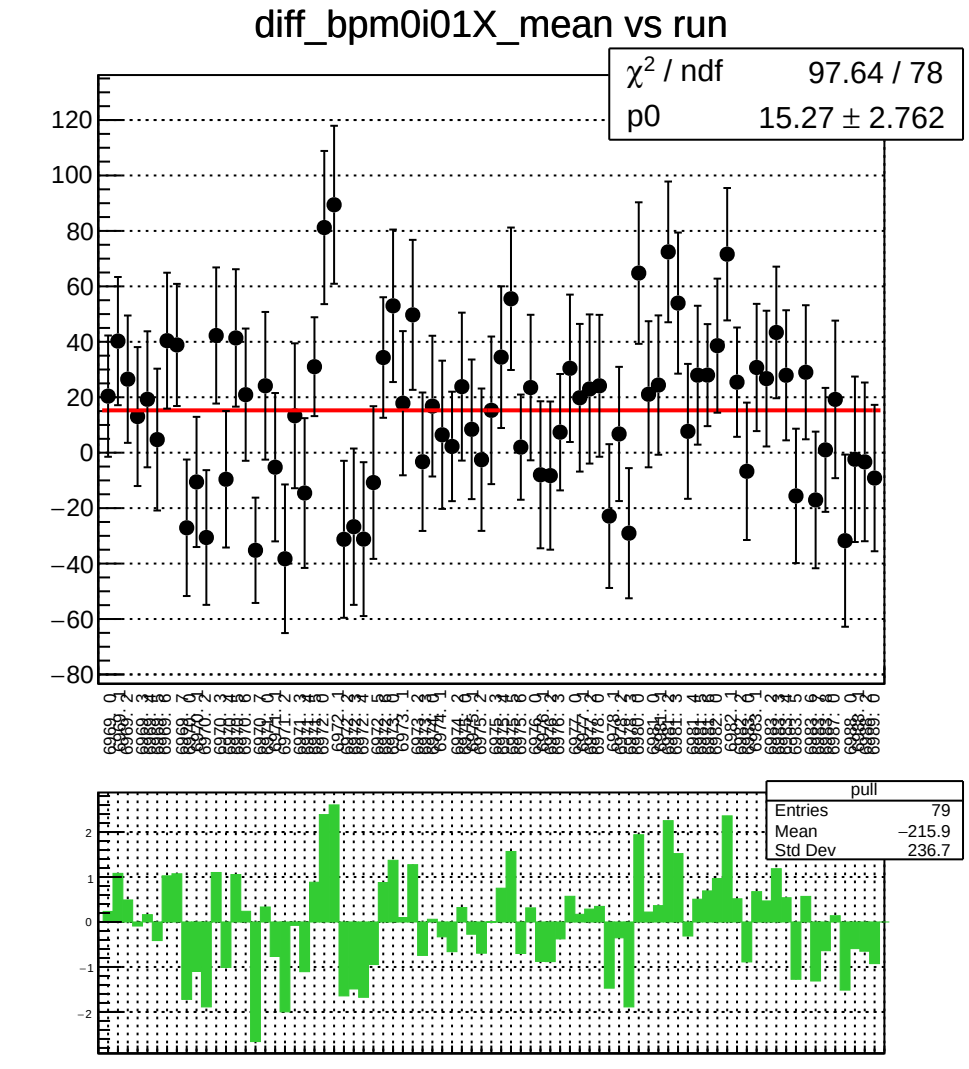

pull1D
Entries 79
Mean 0.01034
Std Dev 0.9168

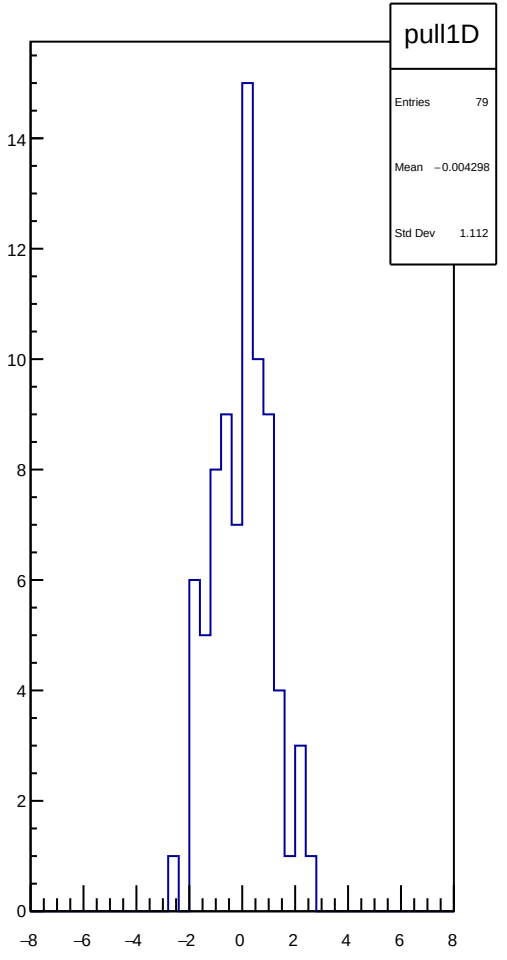

diff_cav4dX_rms vs run
χ^2 / ndf 5067 / 78
p0 4754 ± 3.813
5600
5400
5200
5000
4800
4600
4400
4200

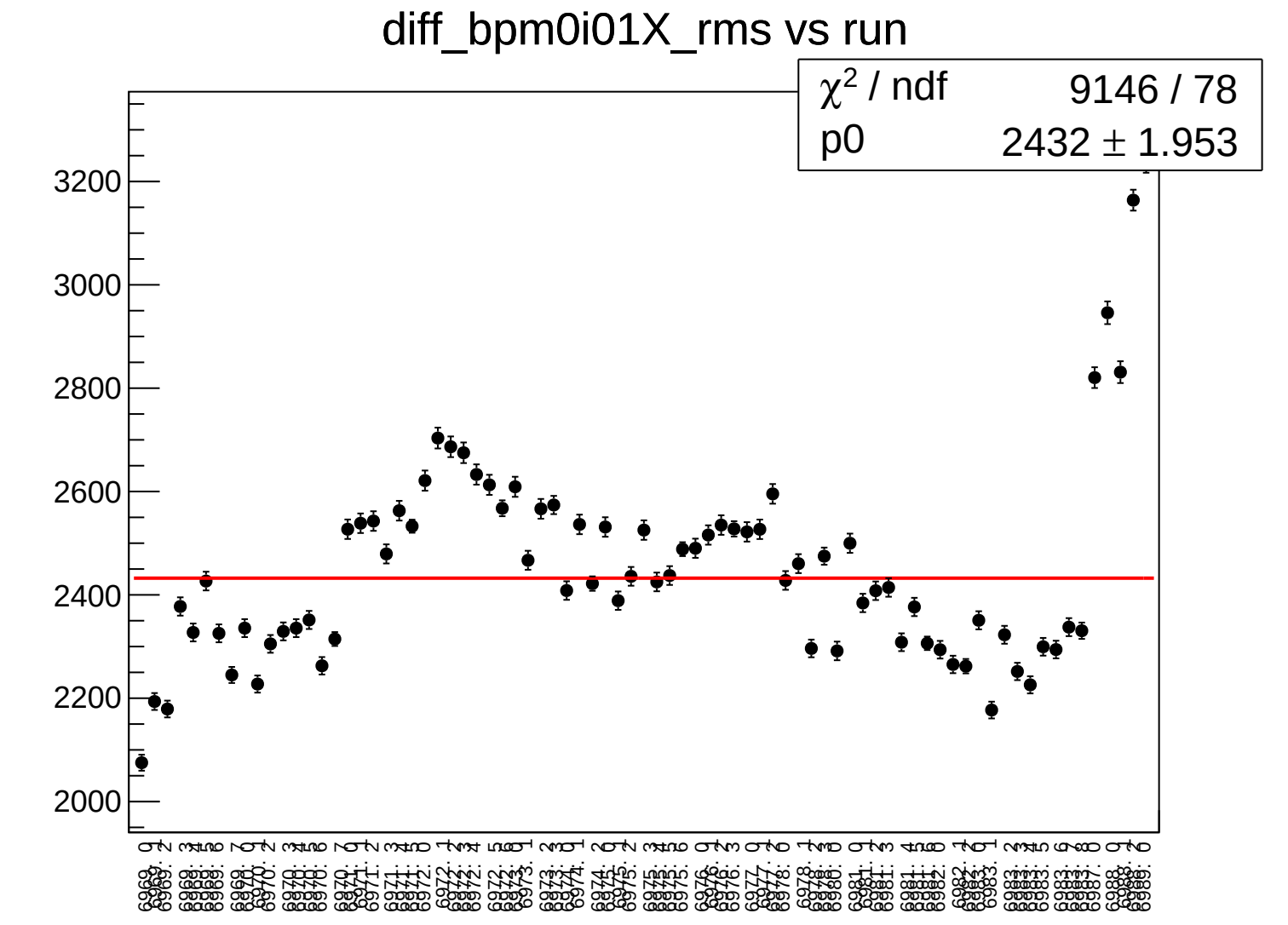

diff_cav4dY_mean vs run
χ^2 / ndf 91.65 / 78
p0 0.7534 ± 0.3936
pull
Entries 79
Mean −924
Std Dev 983.9

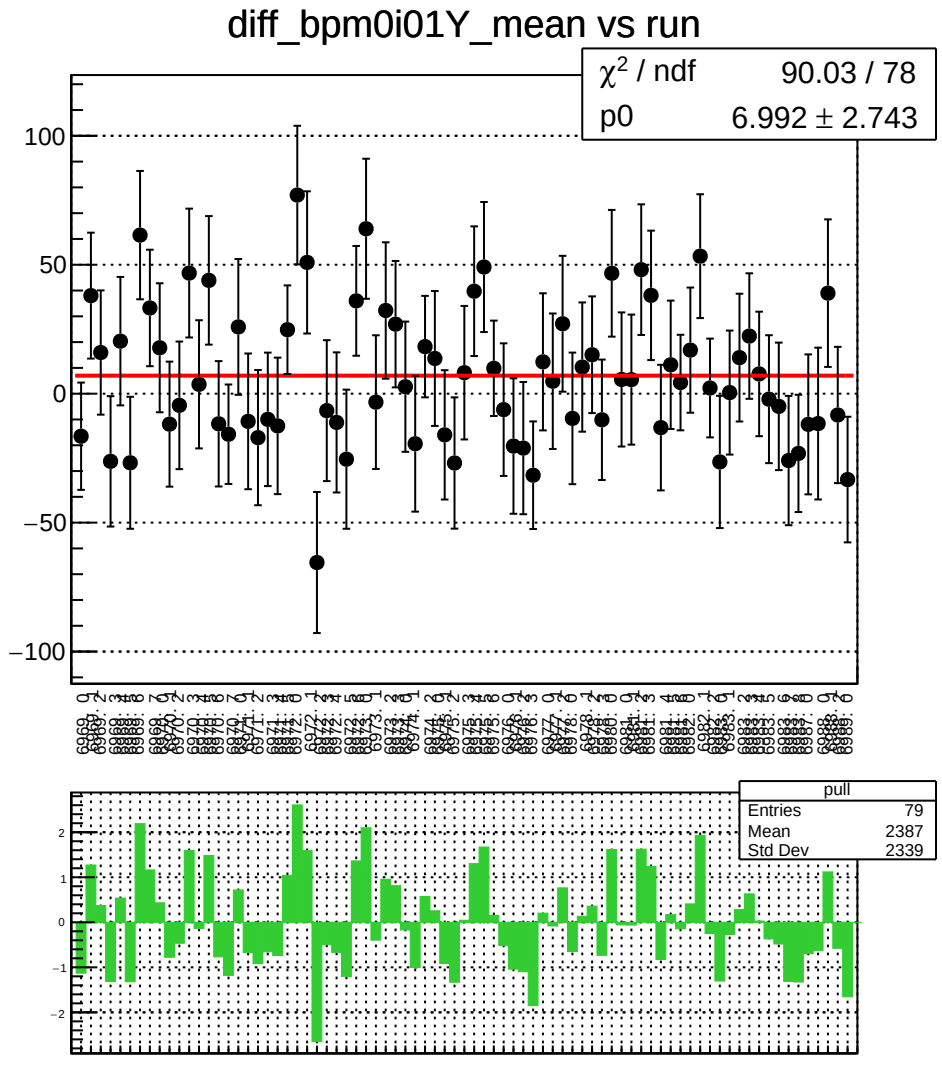

pull1D
Entries 79
Mean 0.00214
Std Dev 1.077

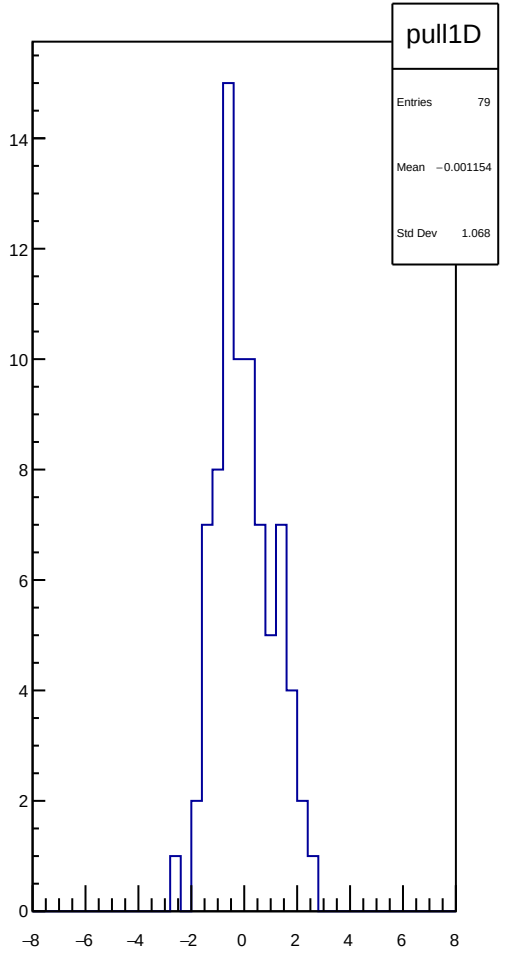

diff_cav4dY_rms vs run
χ^2 / ndf 9979 / 78
p0 346.5 ± 0.2783
440
420
400
380
360
340
320
300
280

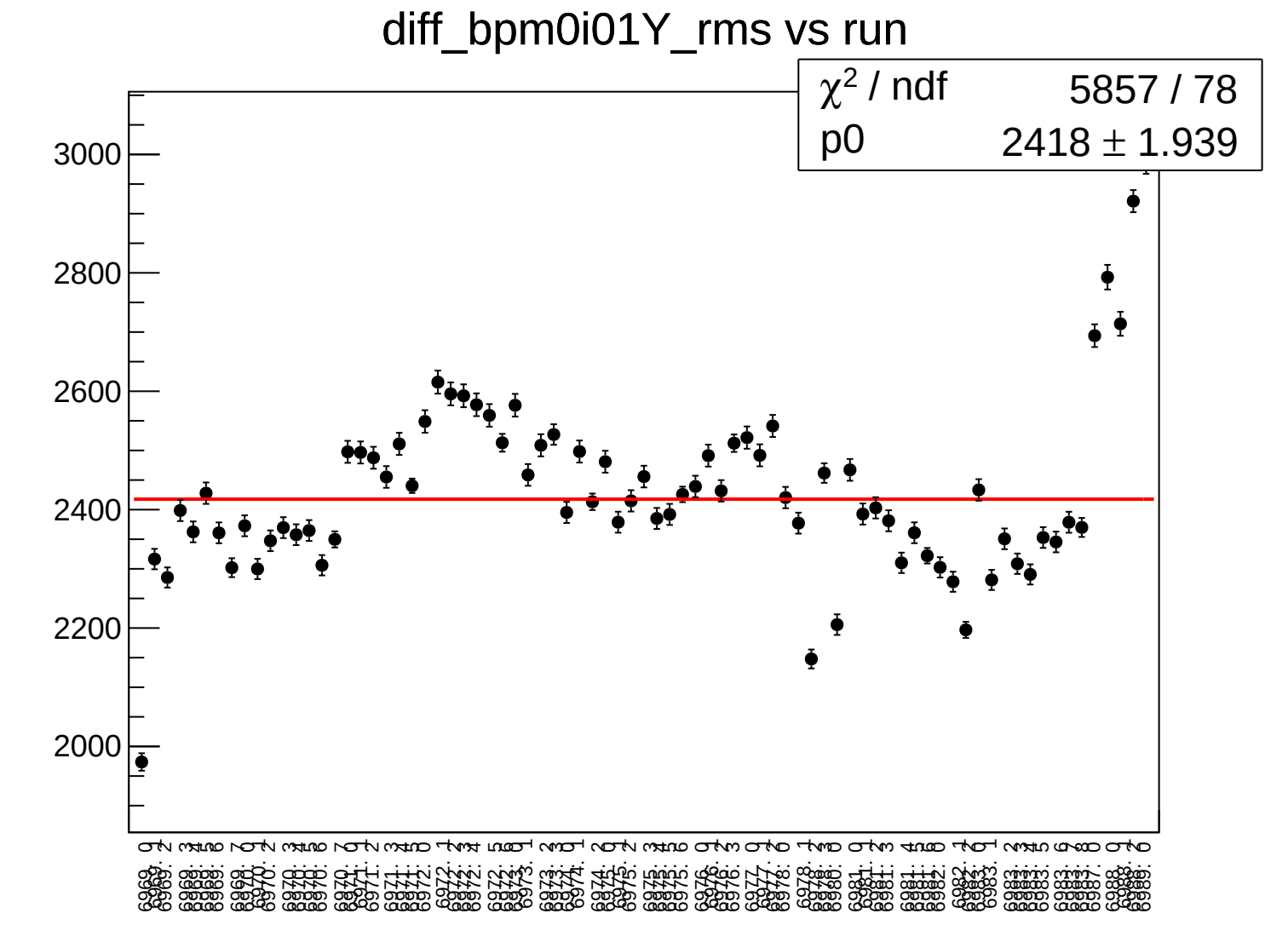

diff_bpm0i01X_mean vs run
χ^2 / ndf 97.64 / 78
p0 15.27 ± 2.762
pull
Entries 79
Mean −215.9
Std Dev 236.7

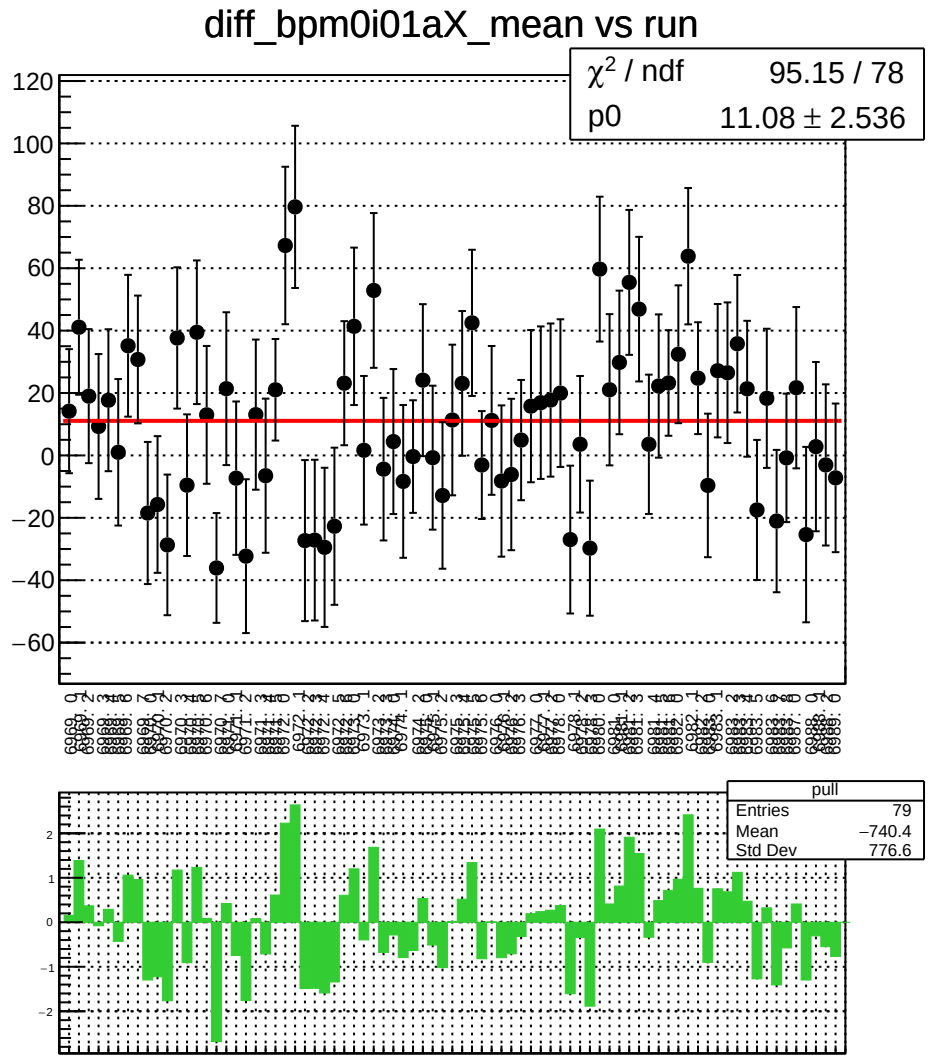

pull1D
Entries 79
Mean −0.004298
Std Dev 1.112

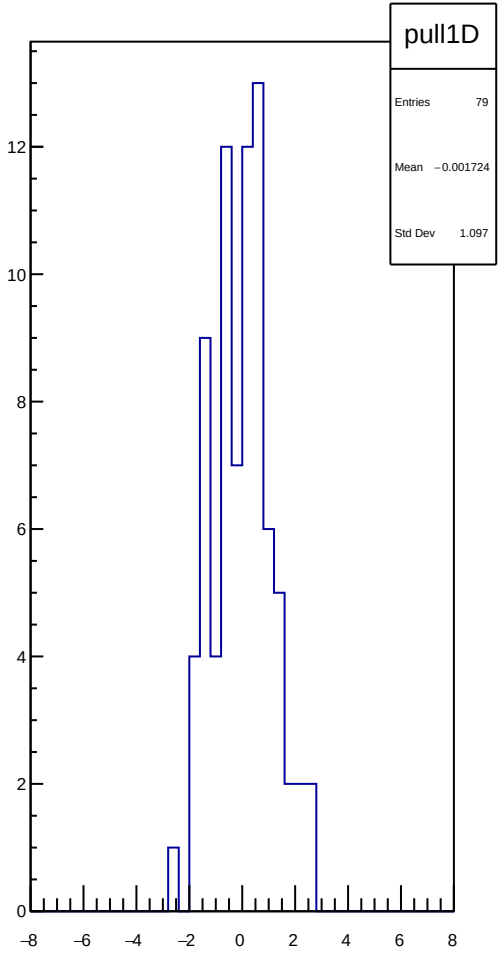

diff_bpm0i01X_rms vs run
χ^2 / ndf 9146 / 78
p0 2432 ± 1.953
3200
3000
2800
2600
2400
2200
2000

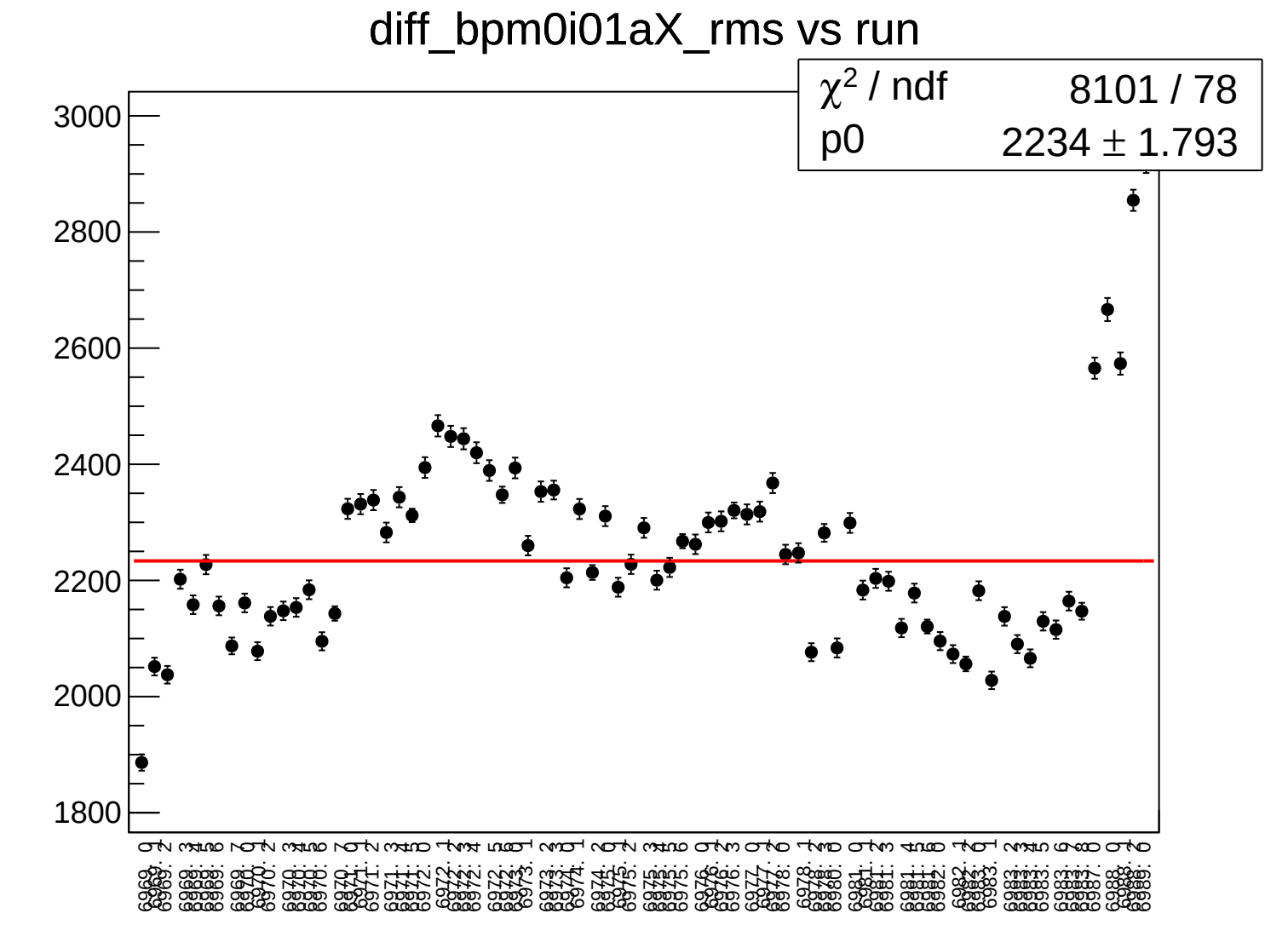

diff_bpm0i01Y_mean vs run
χ² / ndf 90.03 / 78
p0 6.992 ± 2.743
100
50
0
−50
−100
pull
Entries 79
Mean 2387
Std Dev 2339
2
1
0
−1
−2

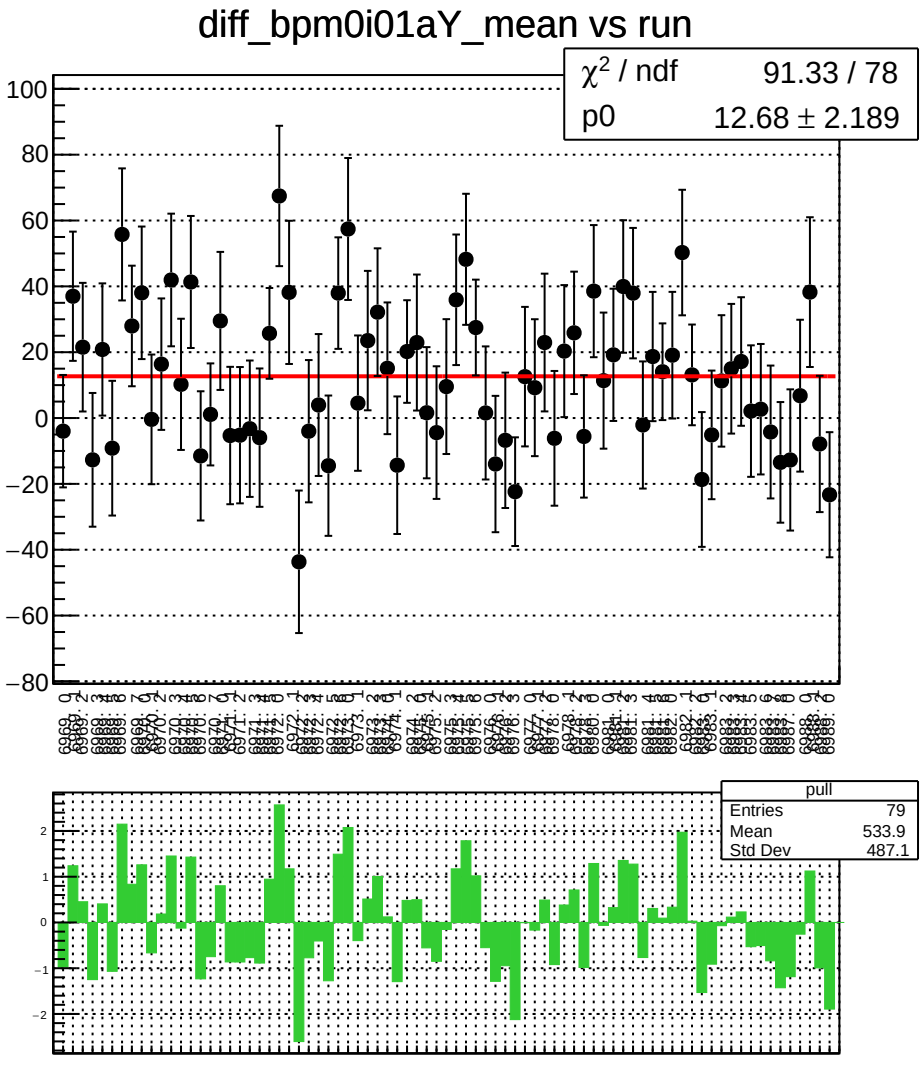

pull1D
Entries 79
Mean −0.001154
Std Dev 1.068
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

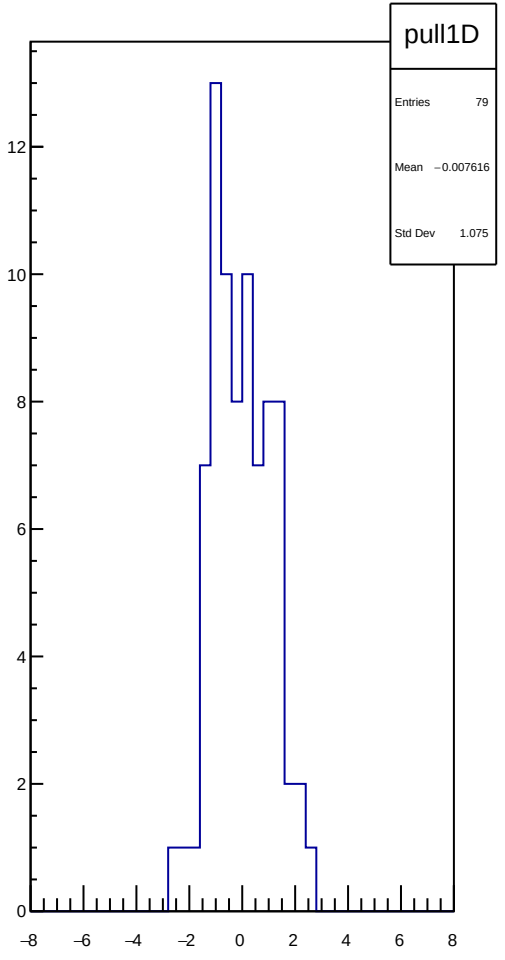

diff_bpm0i01Y_rms vs run
χ² / ndf 5857 / 78
p0 2418 ± 1.939
3000
2800
2600
2400
2200
2000

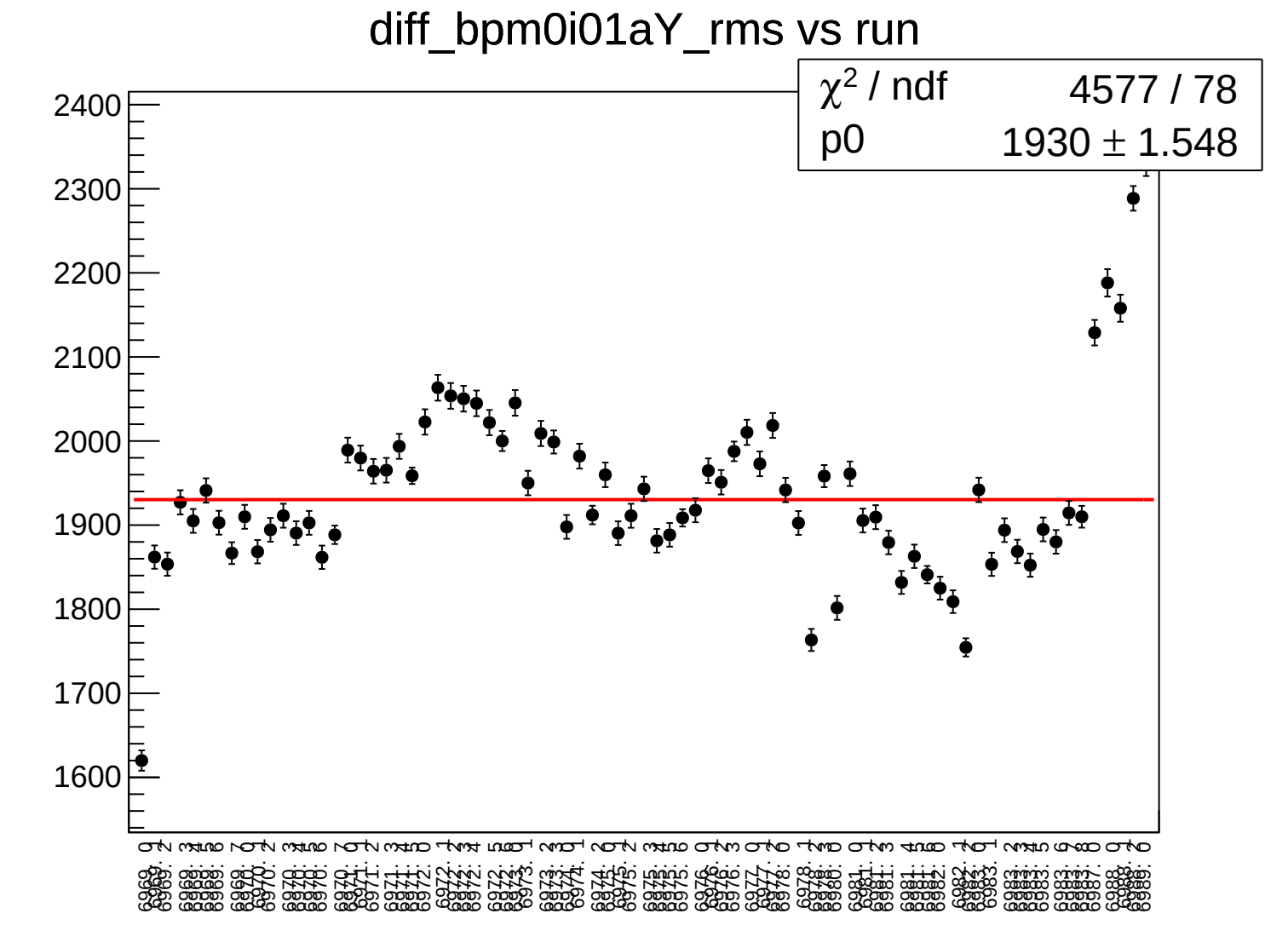

diff_bpm0i01aX_mean vs run
χ² / ndf 95.15 / 78
p0 11.08 ± 2.536
pull
Entries 79
Mean −740.4
Std Dev 776.6

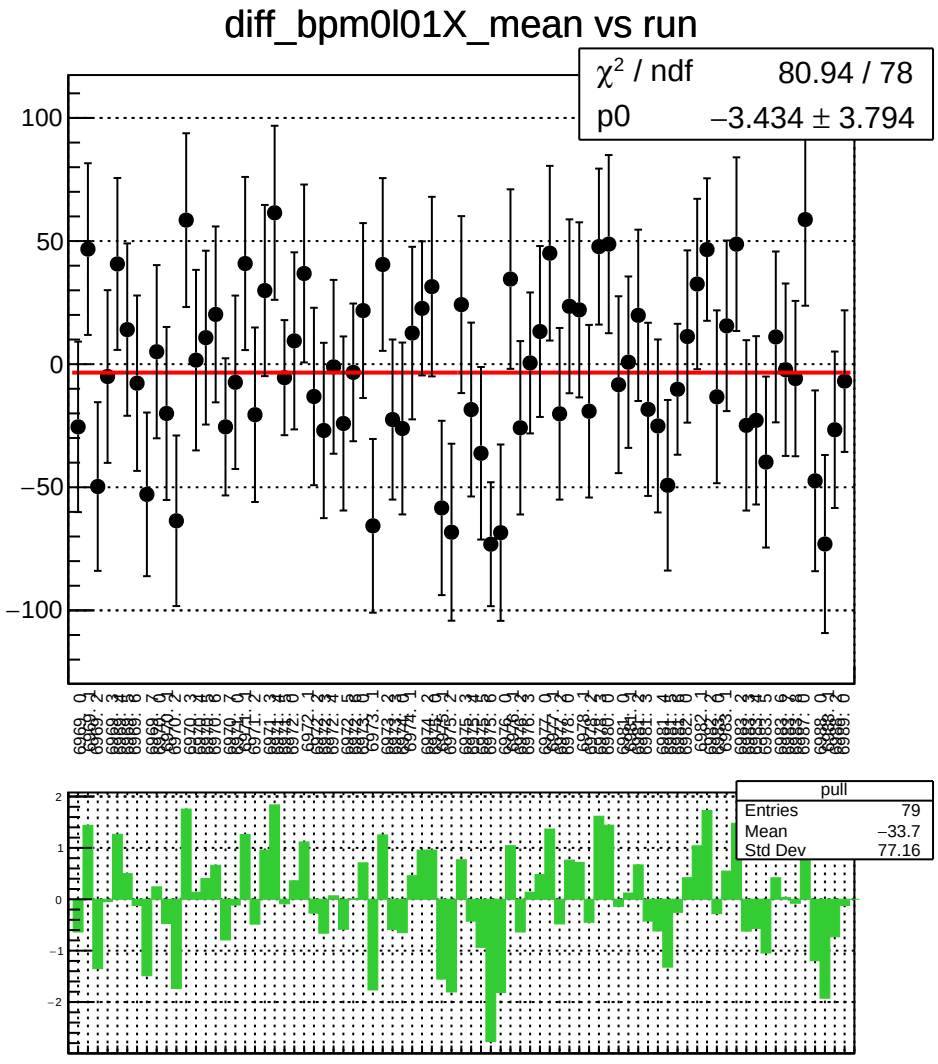

pull1D
Entries 79
Mean −0.001724
Std Dev 1.097

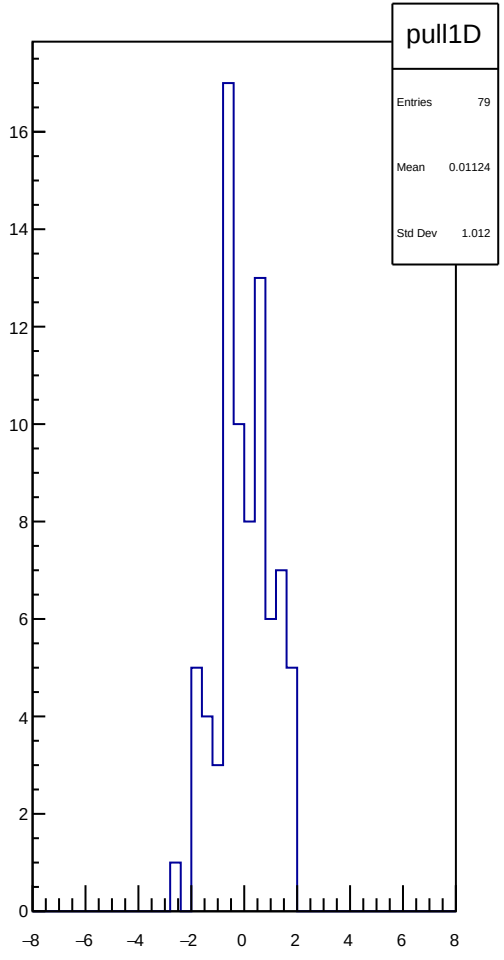

diff_bpm0i01aX_rms vs run
χ² / ndf 8101 / 78
p0 2234 ± 1.793
3000
2800
2600
2400
2200
2000
1800

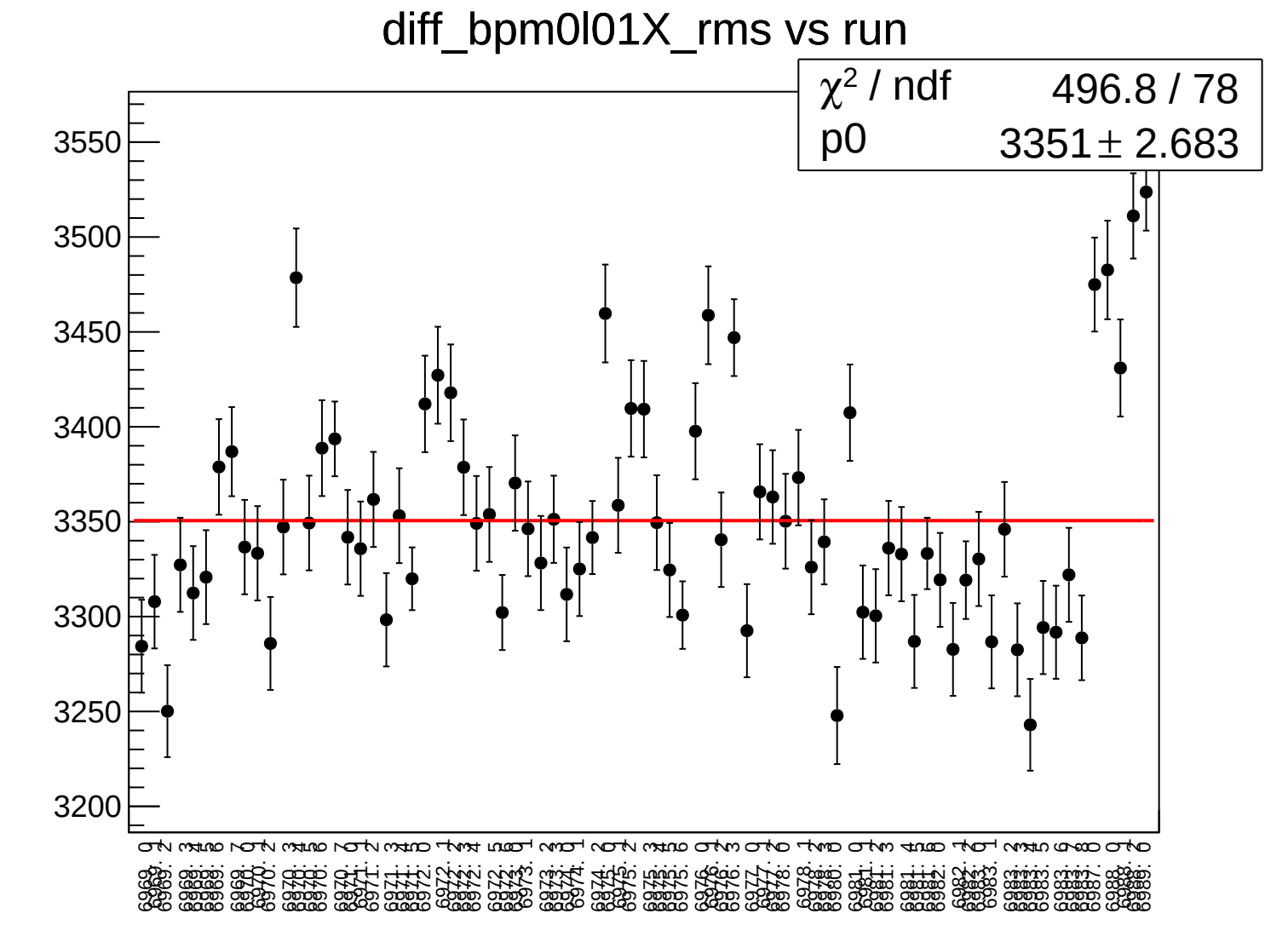

diff_bpm0i01aY_mean vs run
χ^2 / ndf 91.33 / 78
p0 12.68 ± 2.189
pull
Entries 79
Mean 533.9
Std Dev 487.1

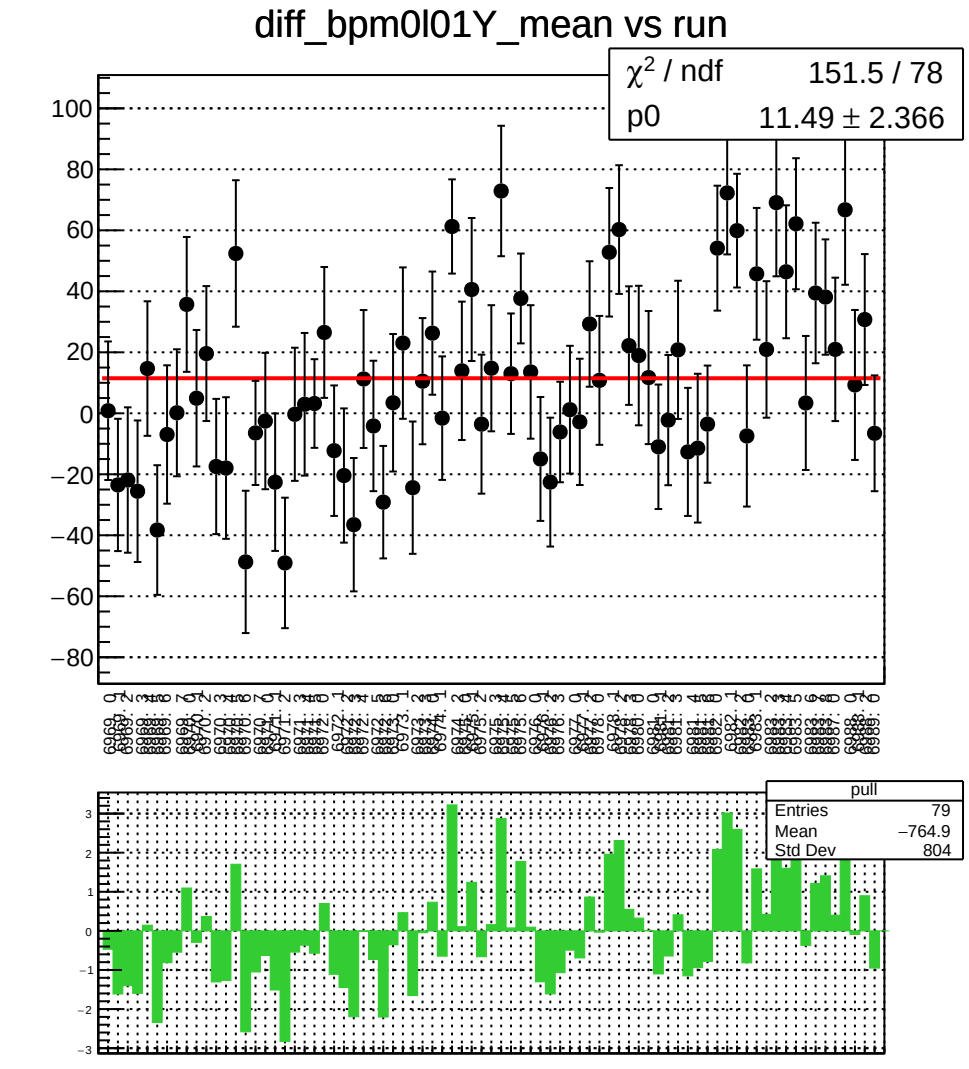

pull1D
Entries 79
Mean −0.007616
Std Dev 1.075

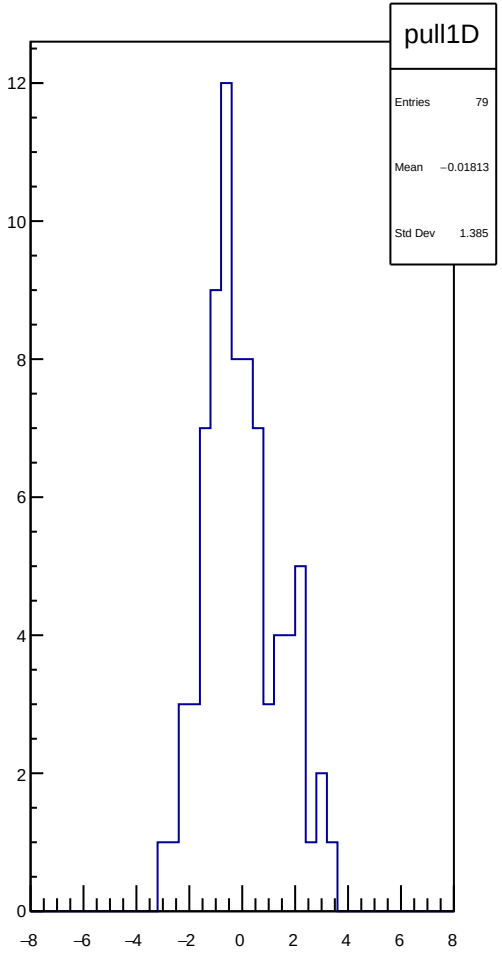

diff_bpm0i01aY_rms vs run
χ² / ndf 4577 / 78
p0 1930 ± 1.548
2400
2300
2200
2100
2000
1900
1800
1700
1600

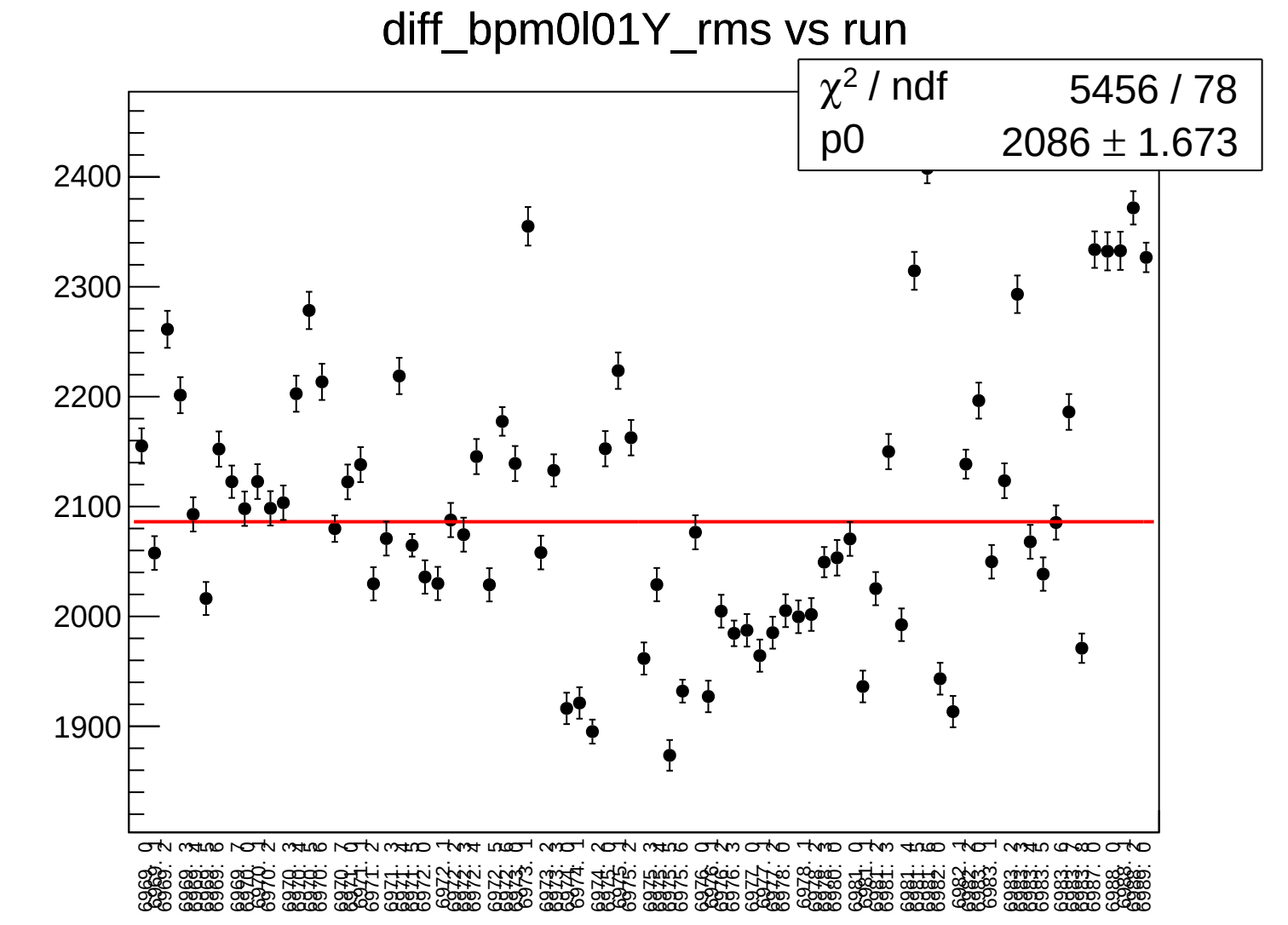

diff_bpm0l01X_mean vs run
χ² / ndf 80.94 / 78
p0 −3.434 ± 3.794
100
50
0
−50
−100
pull
Entries 79
Mean −33.7
Std Dev 77.16
2
1
0
−1
−2

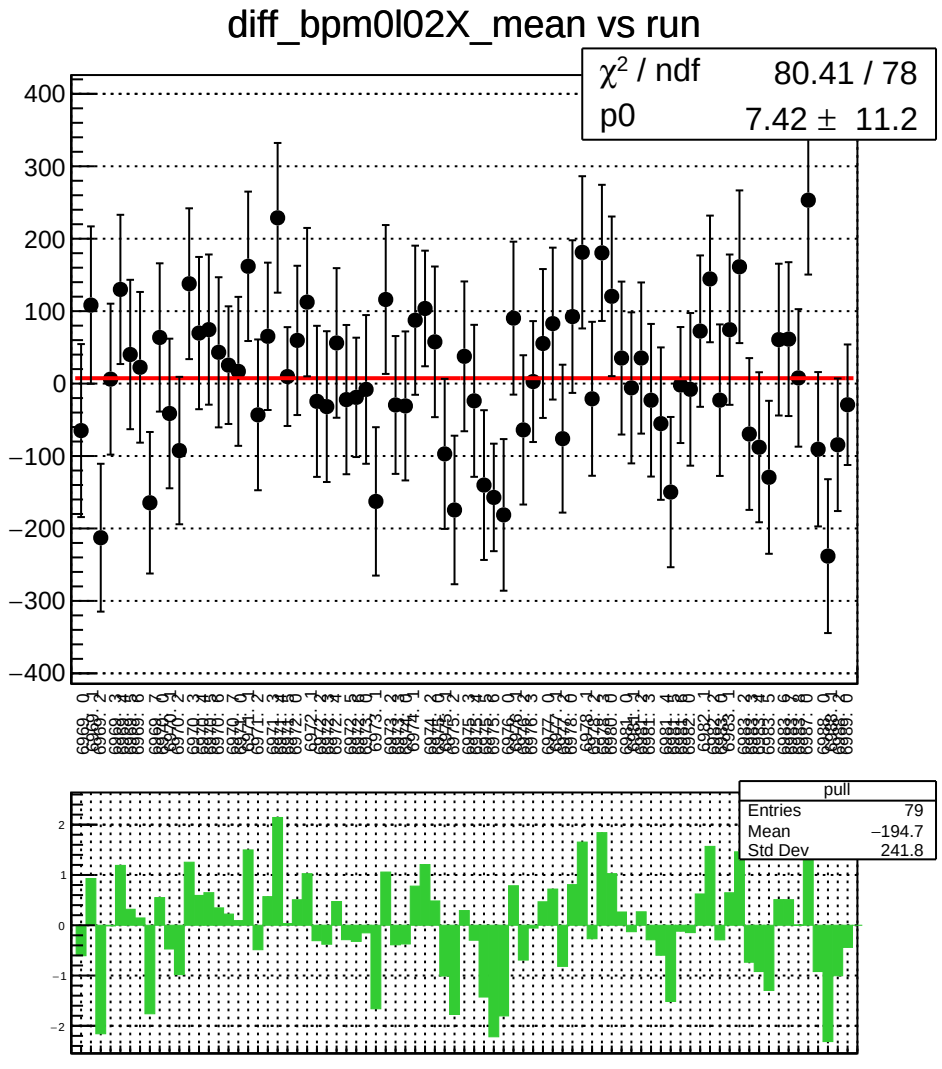

pull1D
Entries 79
Mean 0.01124
Std Dev 1.012
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

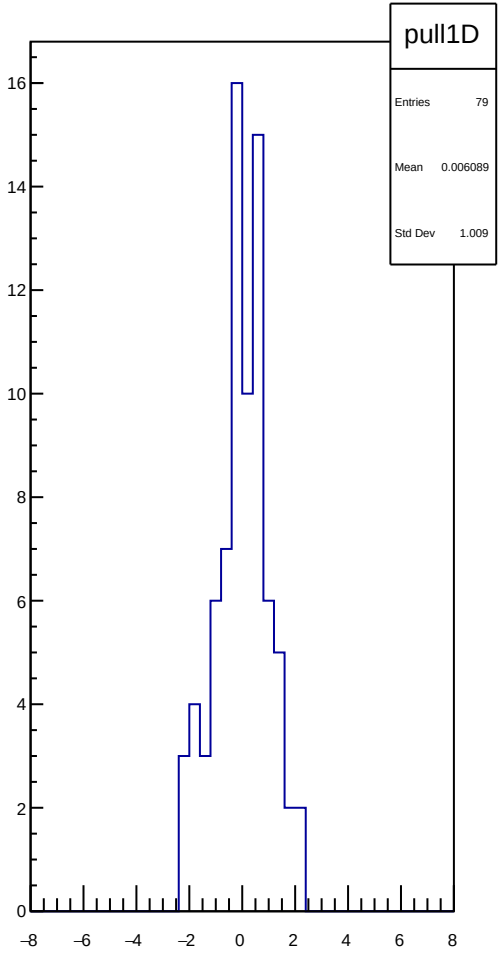

diff_bpm0l01X_rms vs run
χ² / ndf 496.8 / 78
p0 3351 ± 2.683
3550
3500
3450
3400
3350
3300
3250
3200

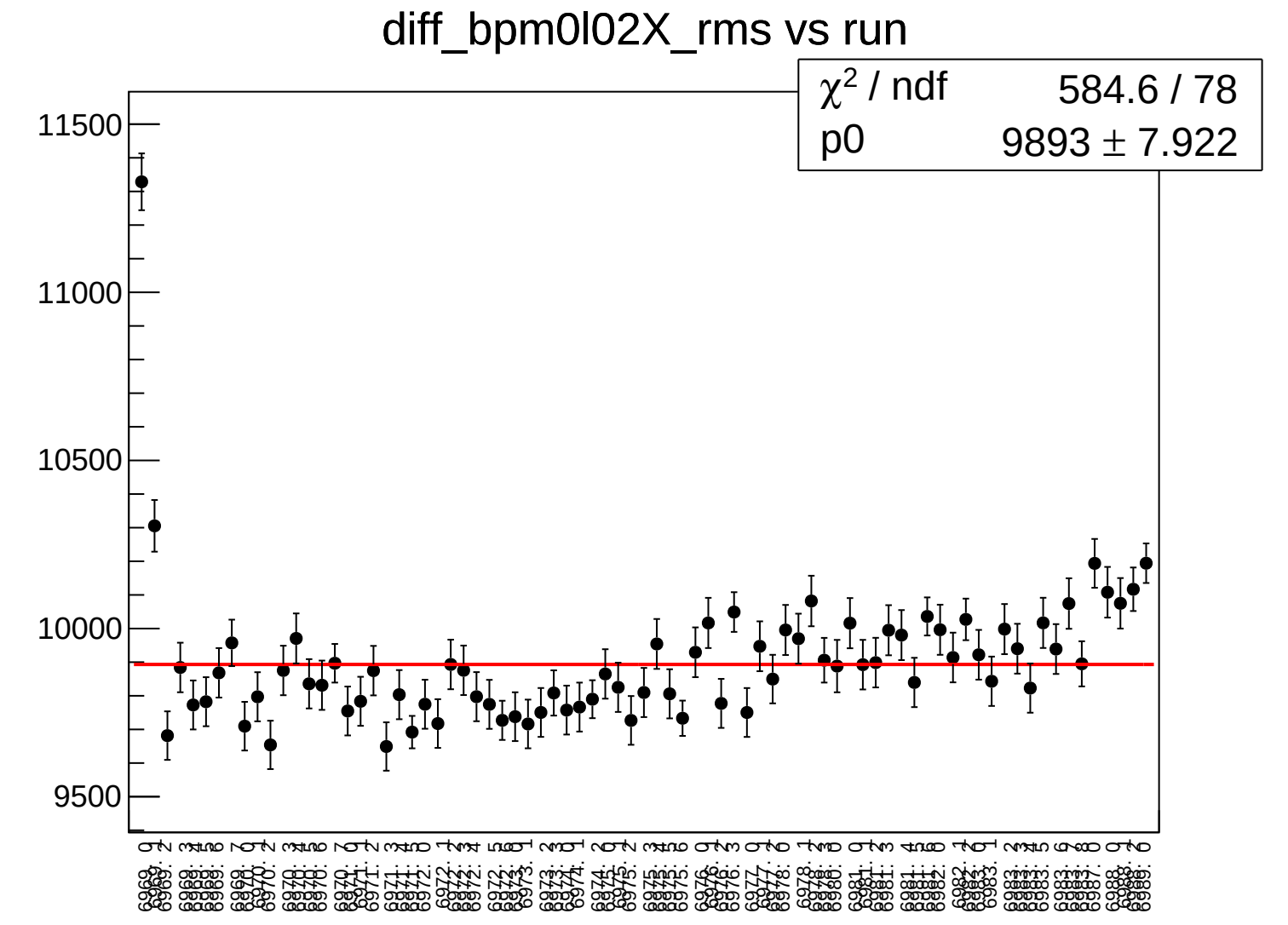

diff_bpm0l01Y_mean vs run
χ² / ndf 151.5 / 78
p0 11.49 ± 2.366
pull
Entries 79
Mean −764.9
Std Dev 804

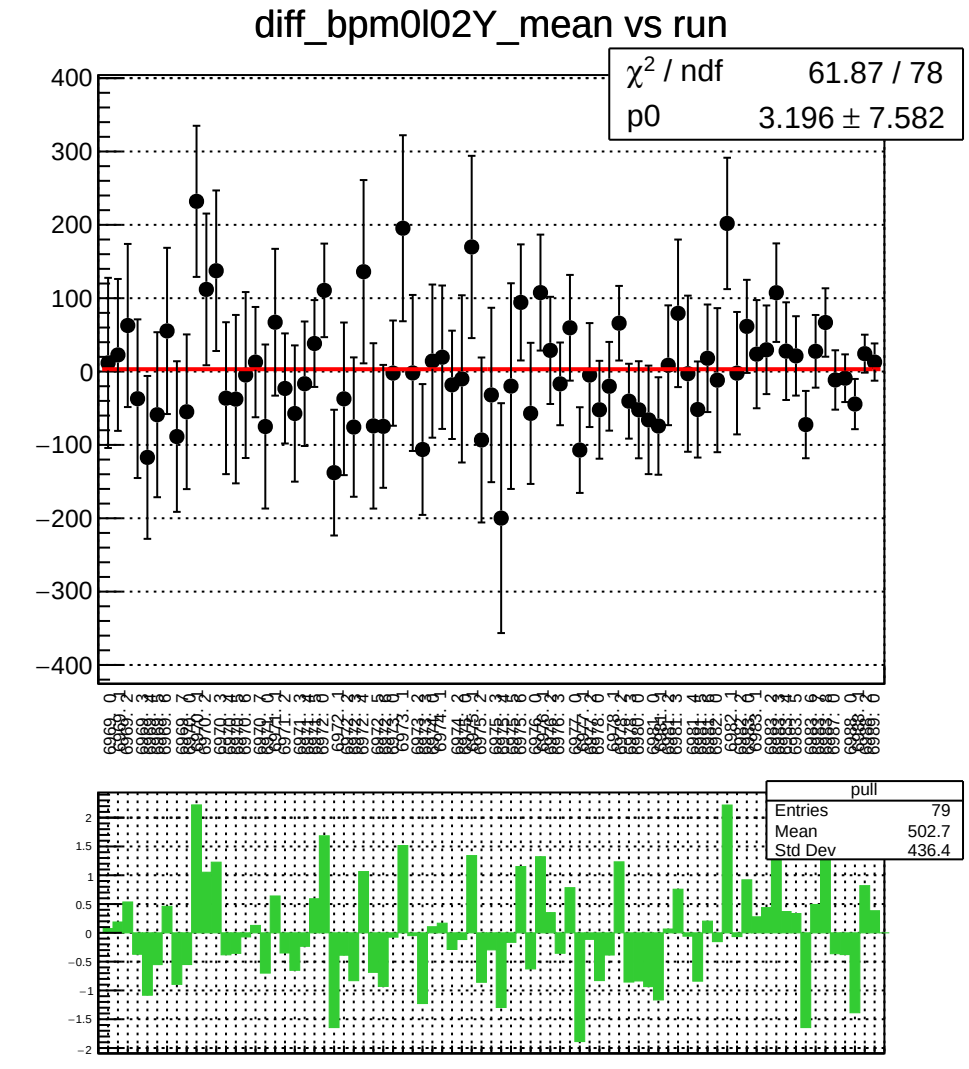

pull1D
Entries 79
Mean −0.01813
Std Dev 1.385

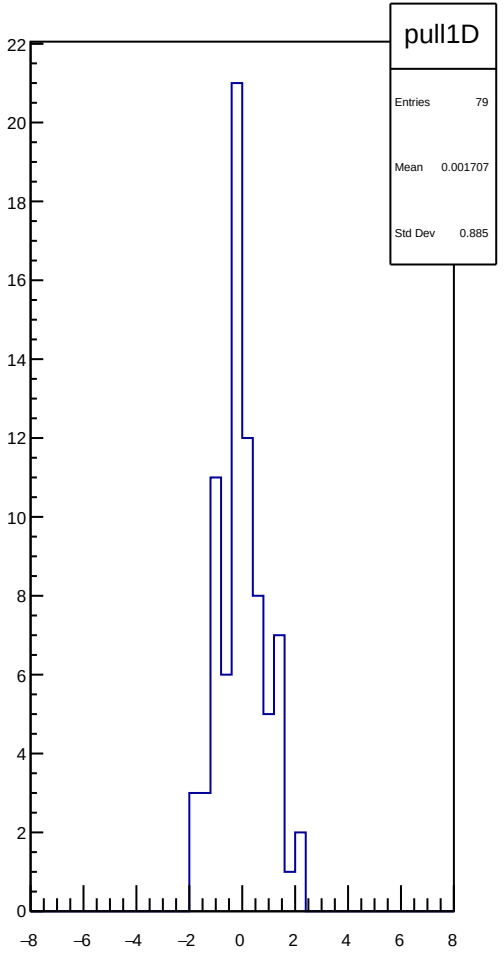

diff_bpm0l01Y_rms vs run
χ² / ndf 5456 / 78
p0 2086 ± 1.673
2400
2300
2200
2100
2000
1900

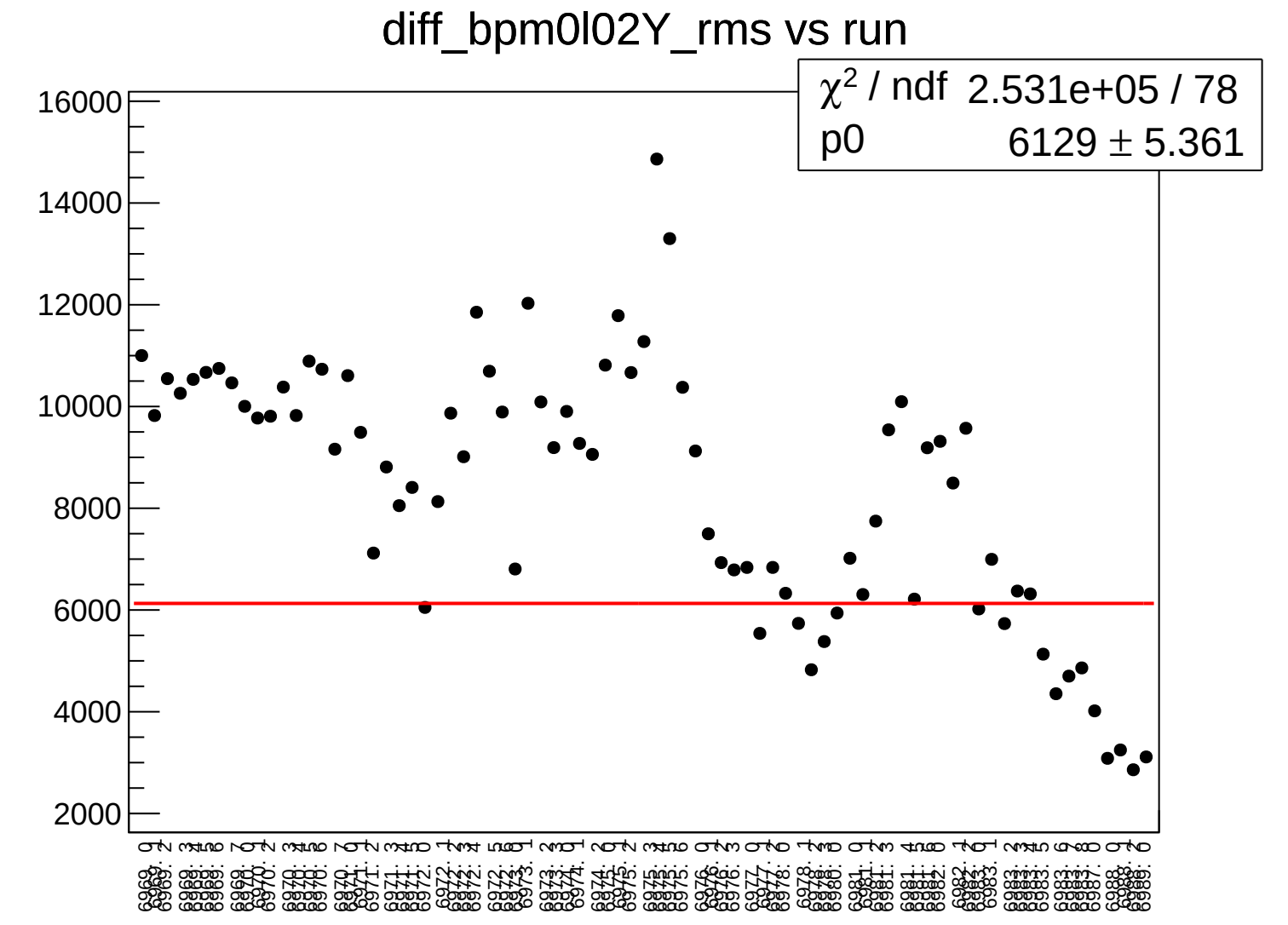

diff_bpm0l02X_mean vs run
χ² / ndf 80.41 / 78
p0 7.42 ± 11.2
pull
Entries 79
Mean −194.7
Std Dev 241.8

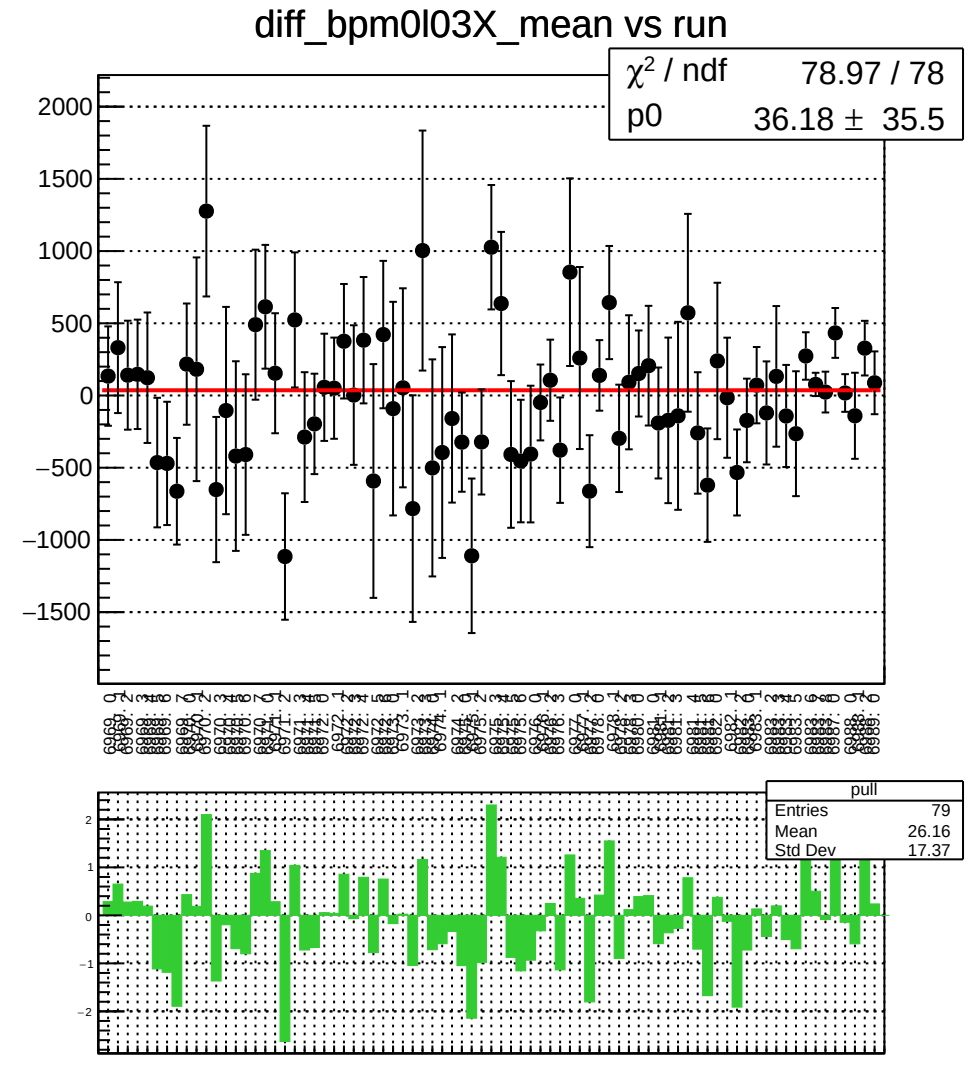

pull1D
Entries 79
Mean 0.006089
Std Dev 1.009

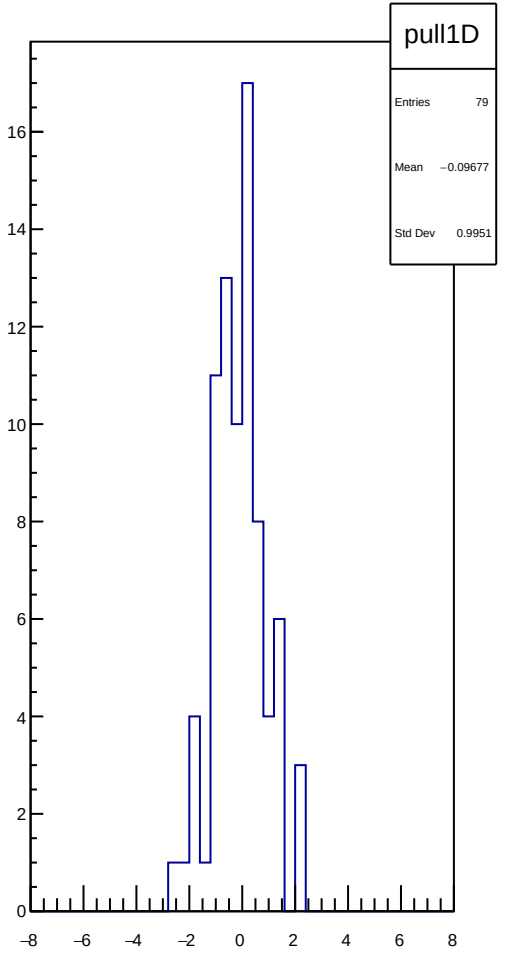

diff_bpm0l02X_rms vs run
χ² / ndf 584.6 / 78
p0 9893 ± 7.922
11500
11000
10500
10000
9500

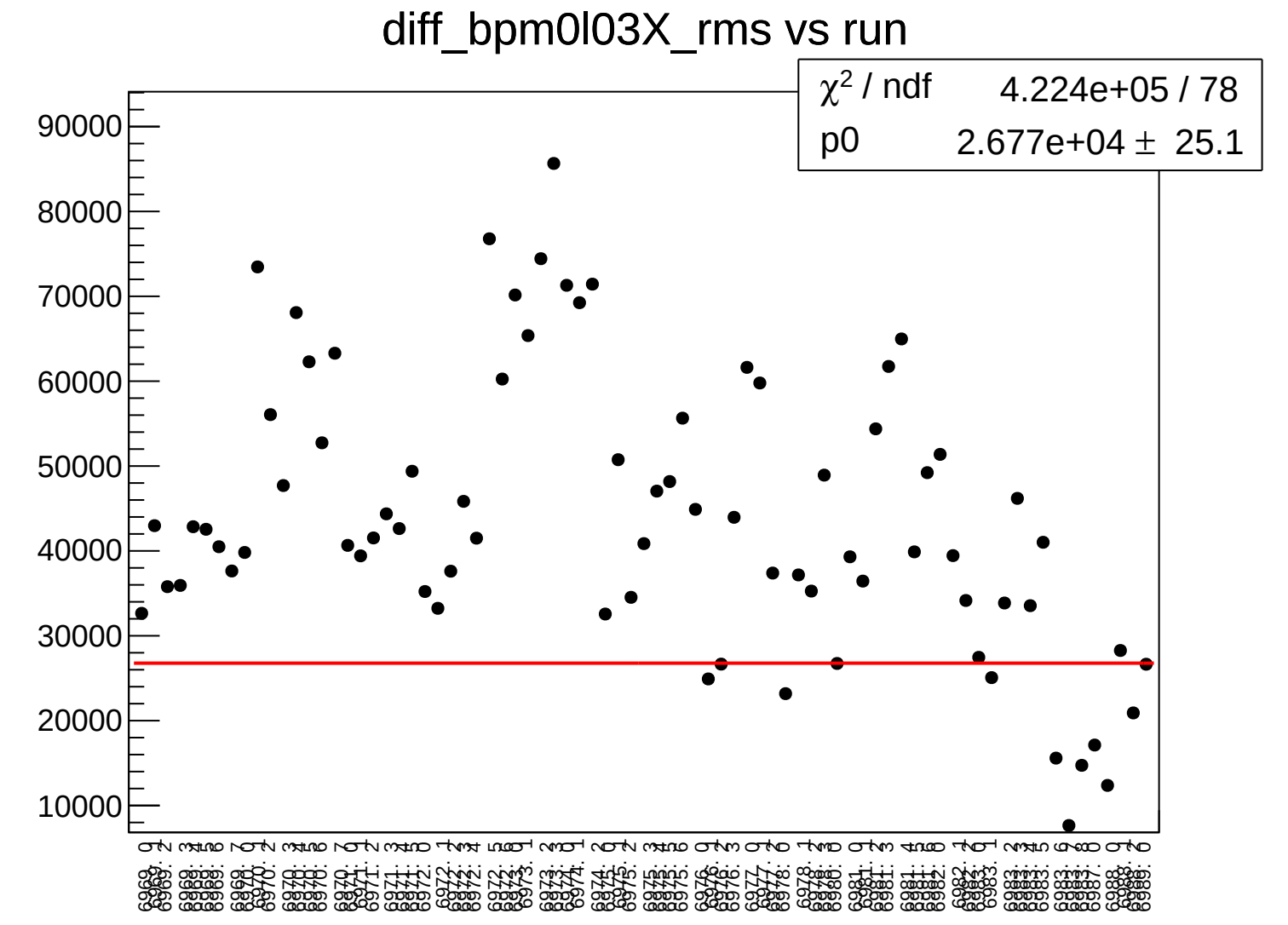

diff_bpm0l02Y_mean vs run
χ^2 / ndf 61.87 / 78
p0 3.196 ± 7.582
pull
Entries 79
Mean 502.7
Std Dev 436.4

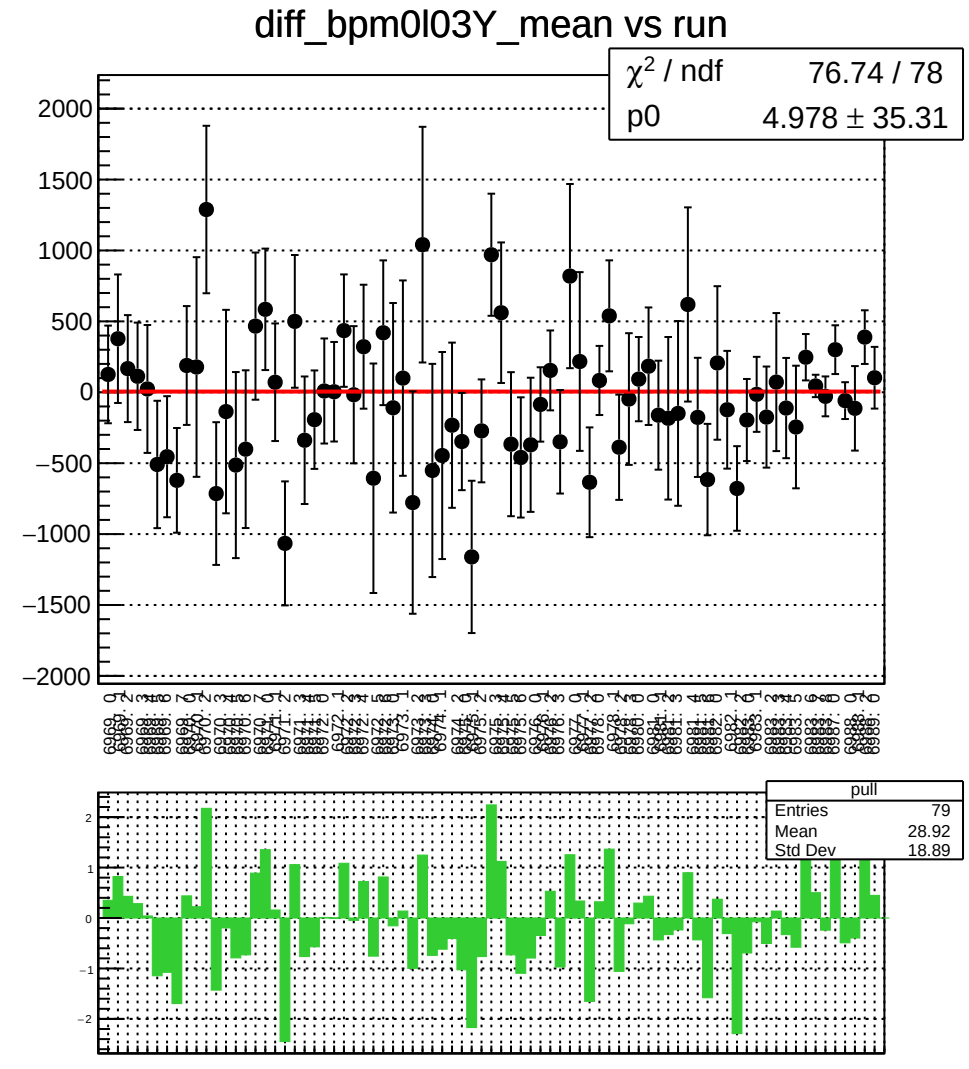

pull1D
Entries 79
Mean 0.001707
Std Dev 0.885

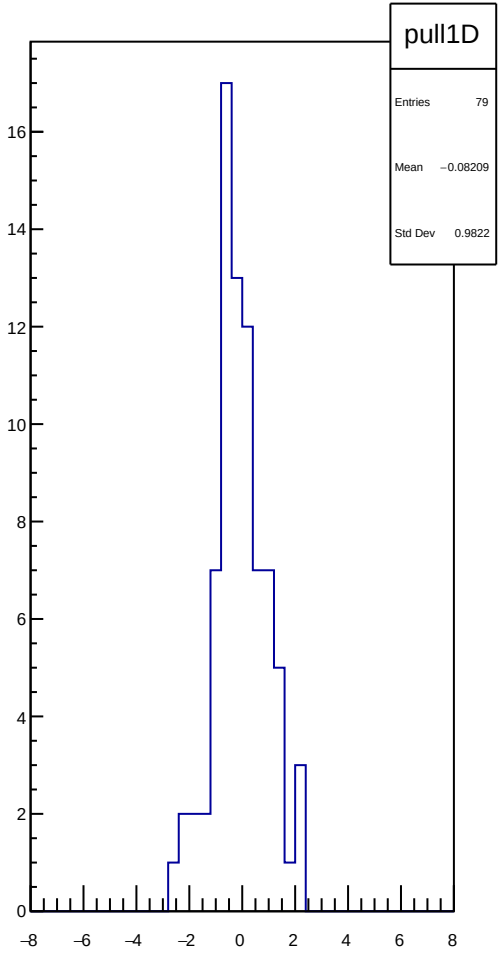

diff_bpm0l02Y_rms vs run
χ² / ndf 2.531e+05 / 78
p0 6129 ± 5.361
16000
14000
12000
10000
8000
6000
4000
2000

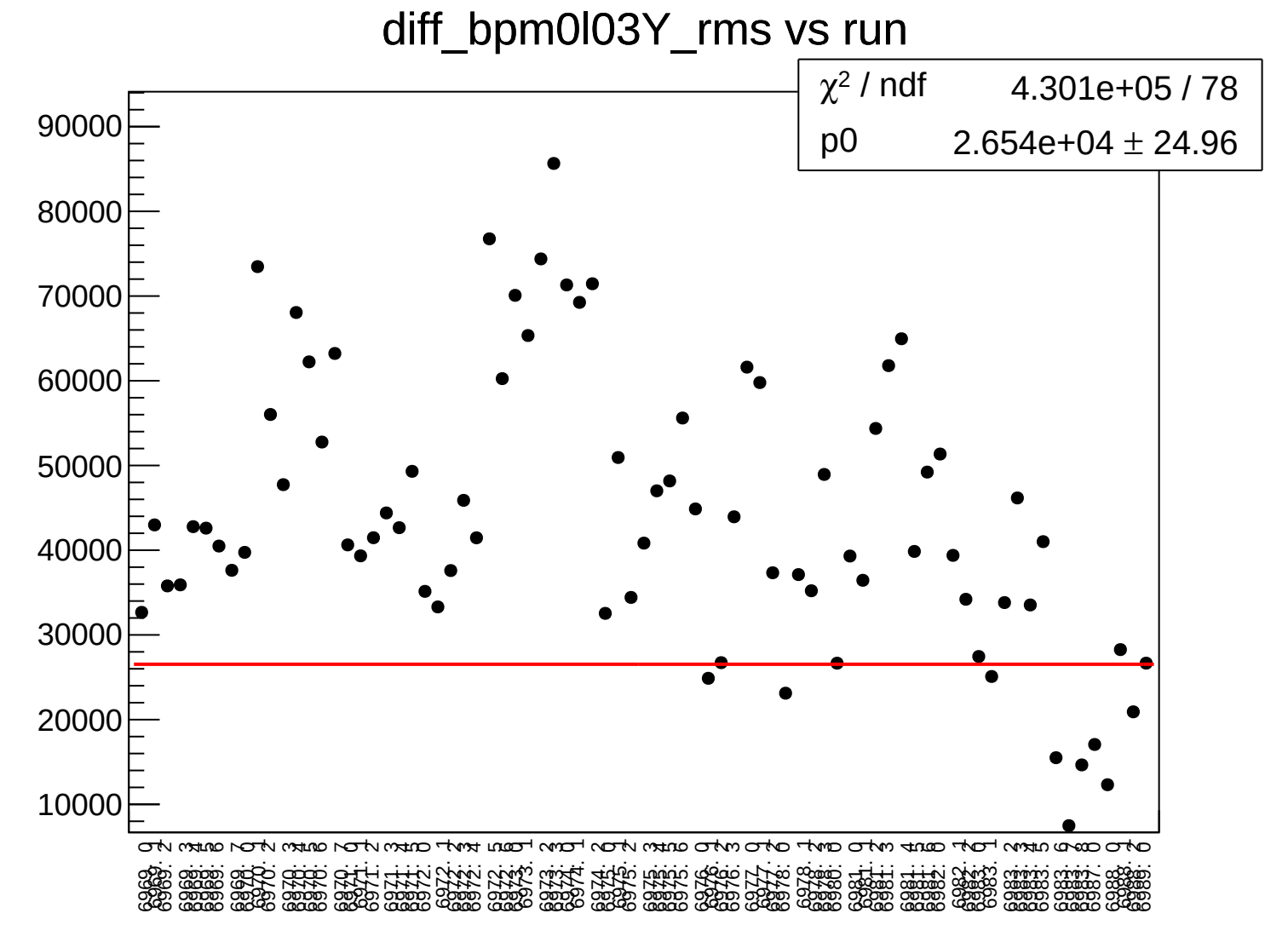

diff_bpm0l03X_mean vs run
χ² / ndf 78.97 / 78
p0 36.18 ± 35.5
pull
Entries 79
Mean 26.16
Std Dev 17.37

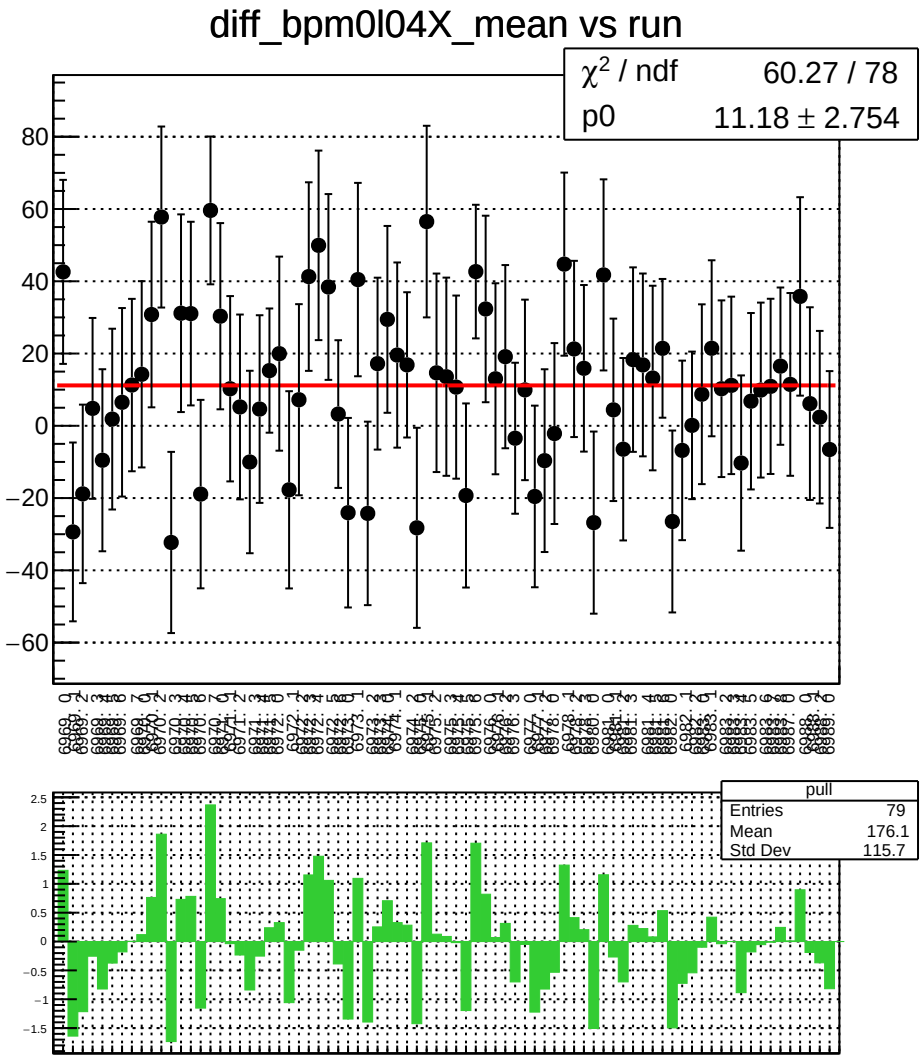

pull1D
Entries 79
Mean −0.09677
Std Dev 0.9951

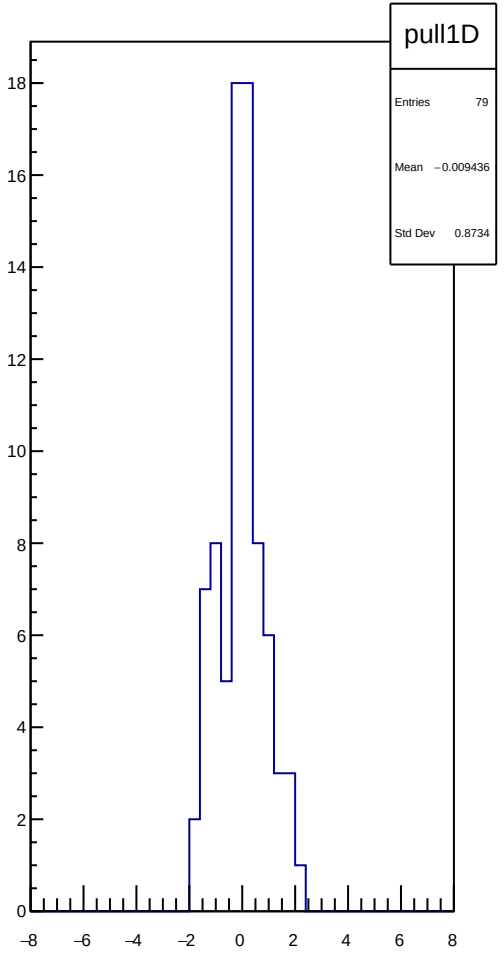

diff_bpm0l03X_rms vs run
χ² / ndf 4.224e+05 / 78
p0 2.677e+04 ± 25.1
90000
80000
70000
60000
50000
40000
30000
20000
10000

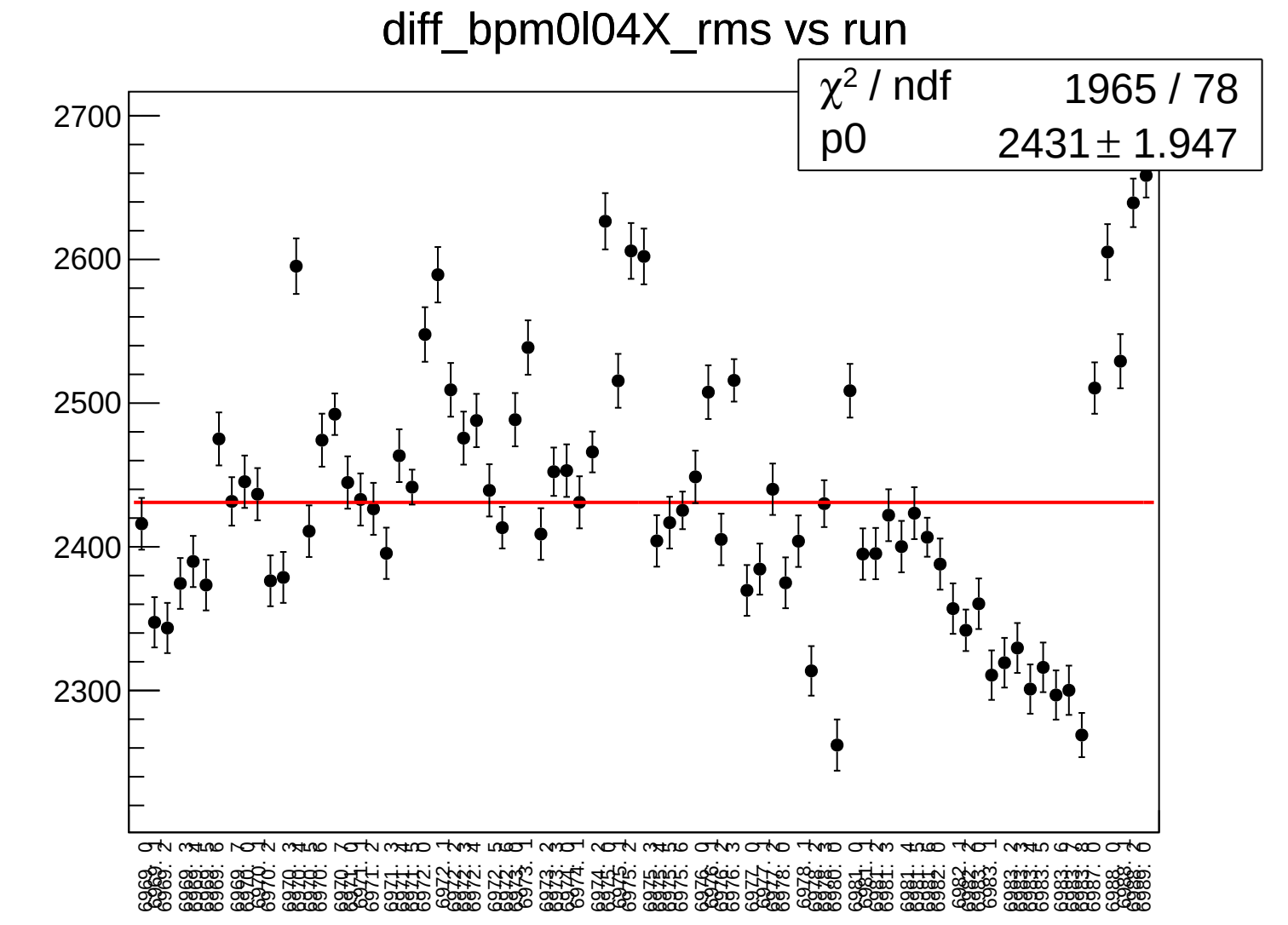

diff_bpm0l03Y_mean vs run
χ² / ndf 76.74 / 78
p0 4.978 ± 35.31
pull
Entries 79
Mean 28.92
Std Dev 18.89

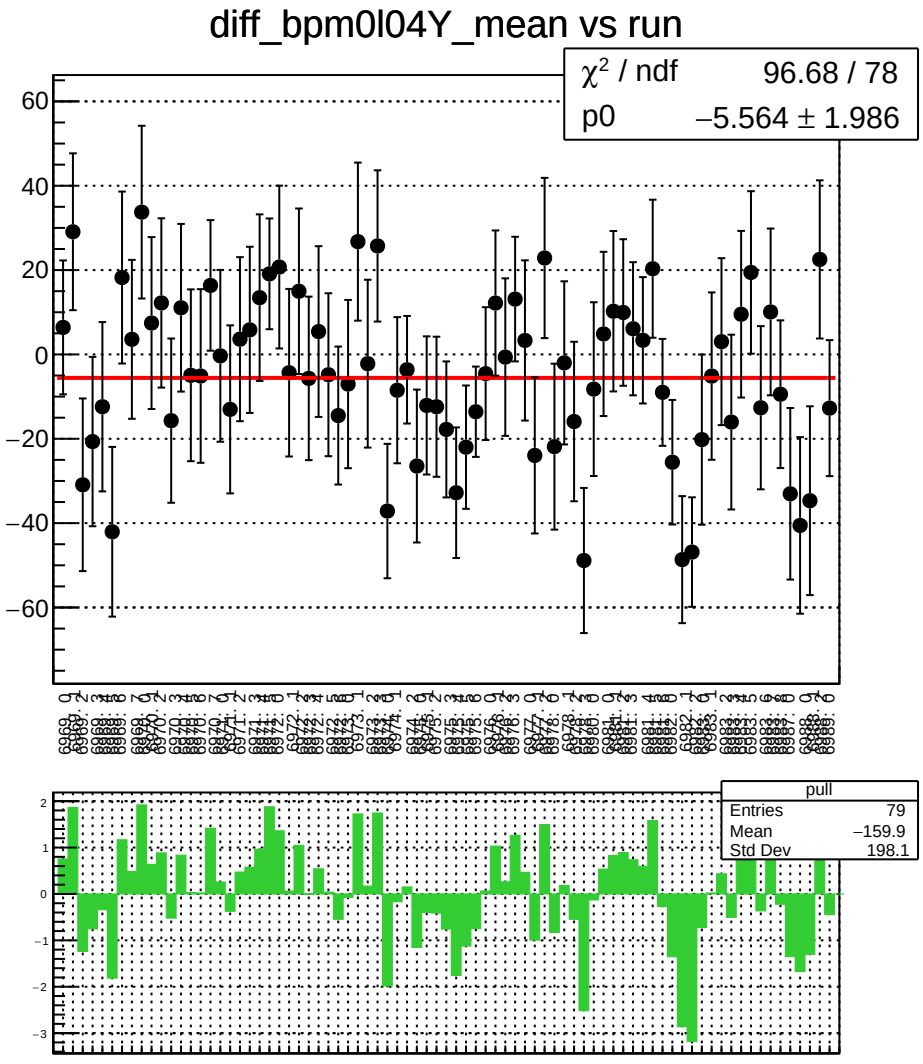

pull1D
Entries 79
Mean −0.08209
Std Dev 0.9822

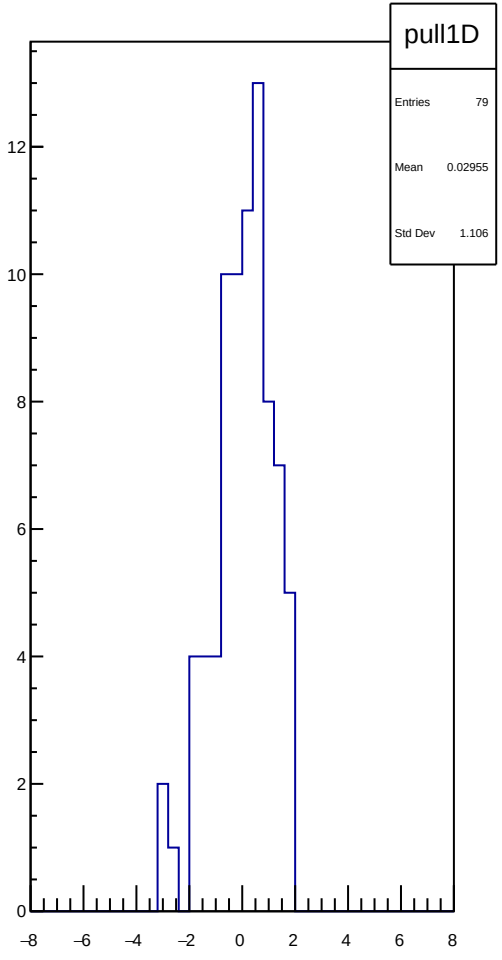

diff_bpm0l03Y_rms vs run
χ² / ndf 4.301e+05 / 78
p0 2.654e+04 ± 24.96
90000
80000
70000
60000
50000
40000
30000
20000
10000

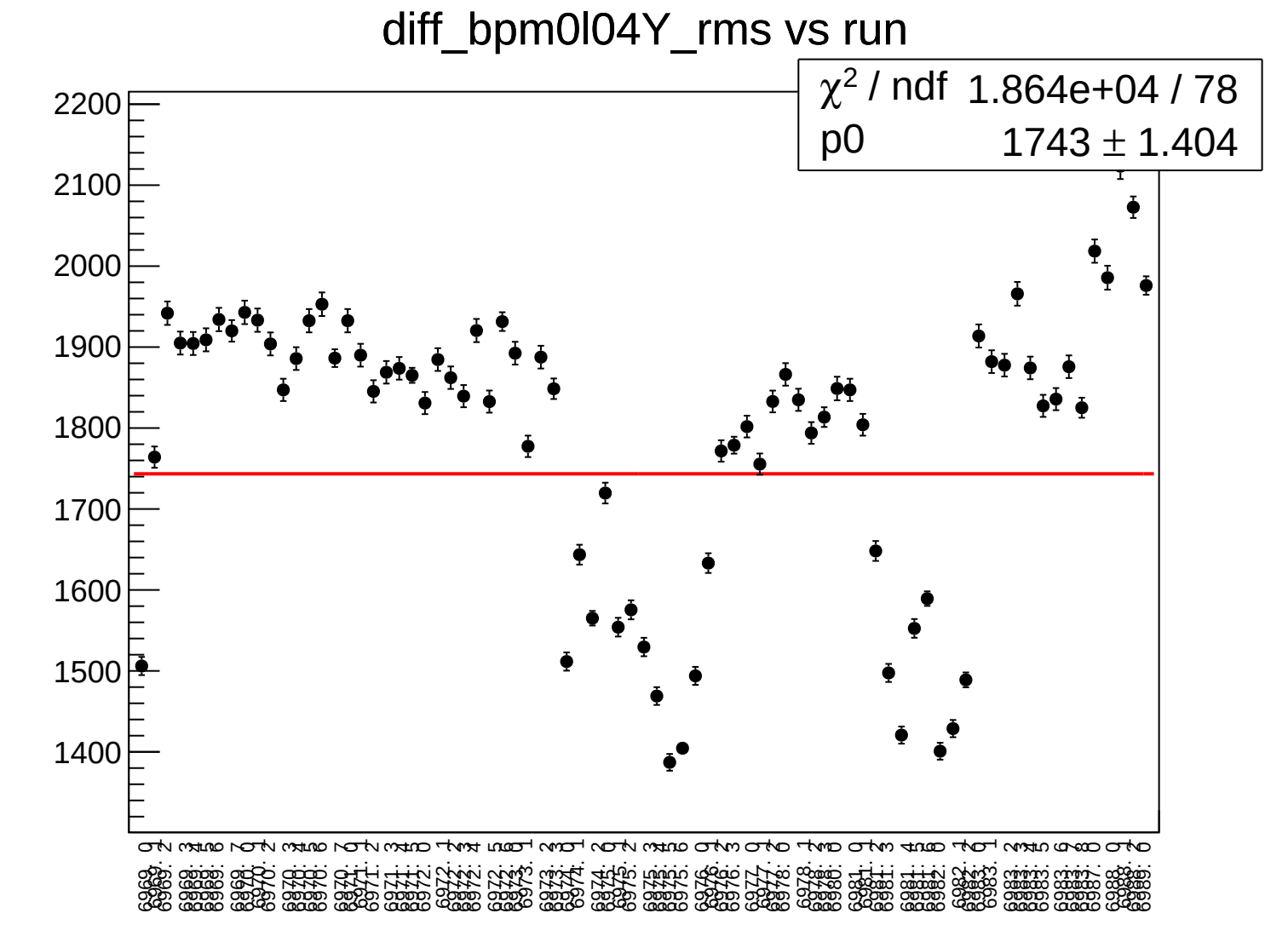

diff_bpm0l04X_mean vs run
χ^2 / ndf 60.27 / 78
p0 11.18 ± 2.754
pull
Entries 79
Mean 176.1
Std Dev 115.7

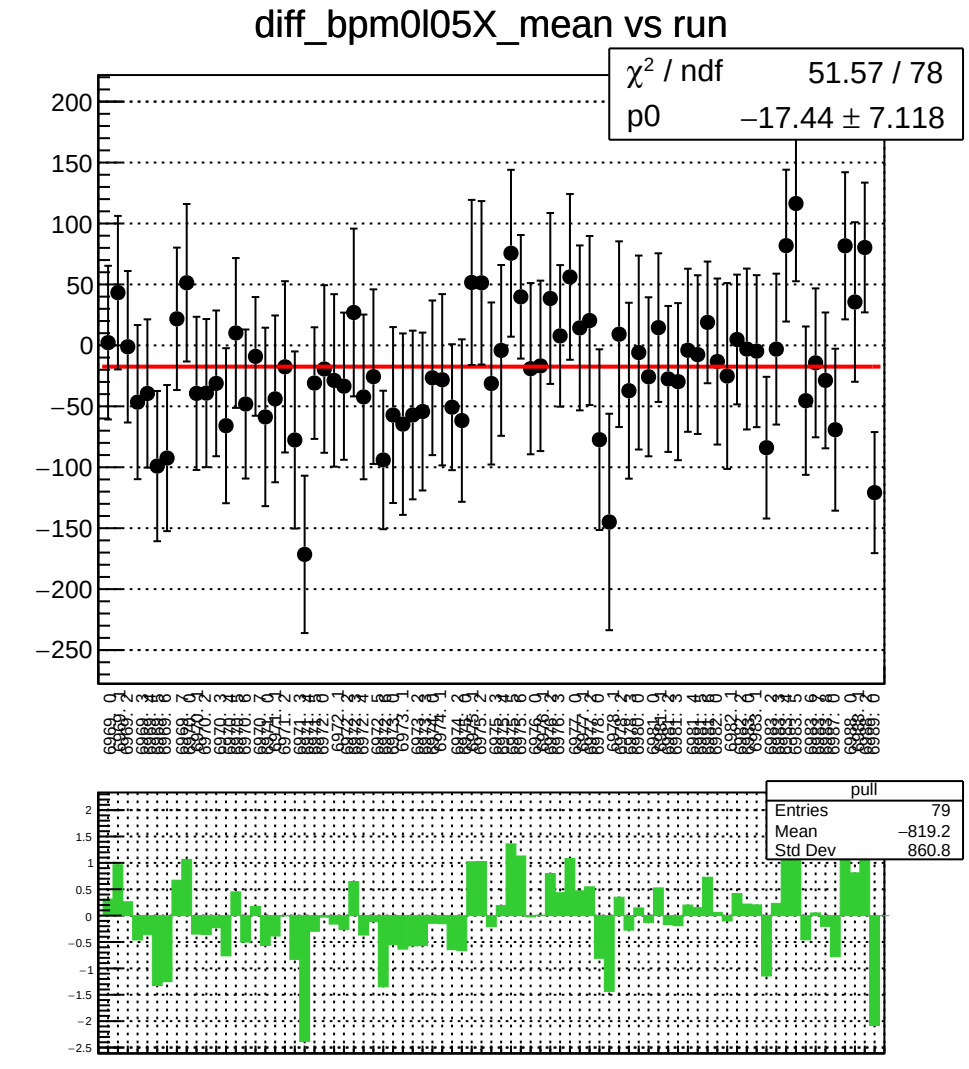

pull1D
Entries 79
Mean −0.009436
Std Dev 0.8734

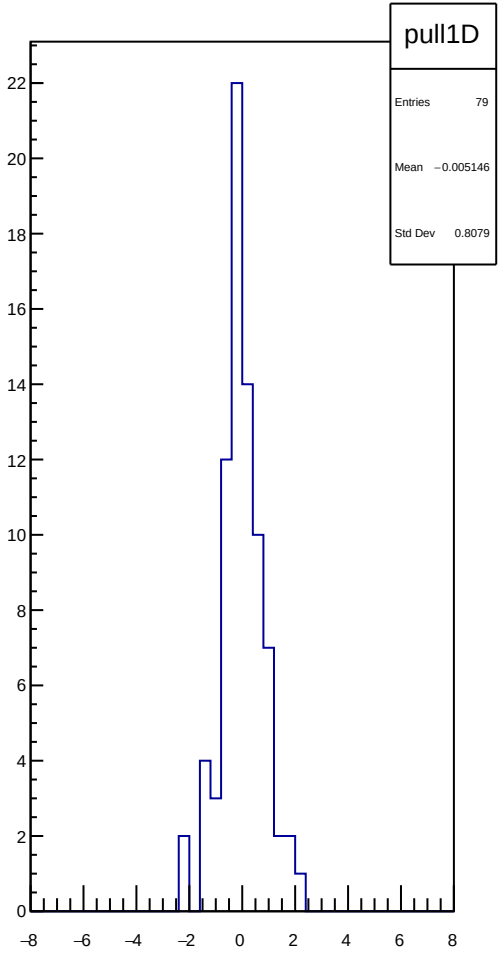

diff_bpm0l04X_rms vs run
χ² / ndf 1965 / 78
p0 2431 ± 1.947
2700
2600
2500
2400
2300

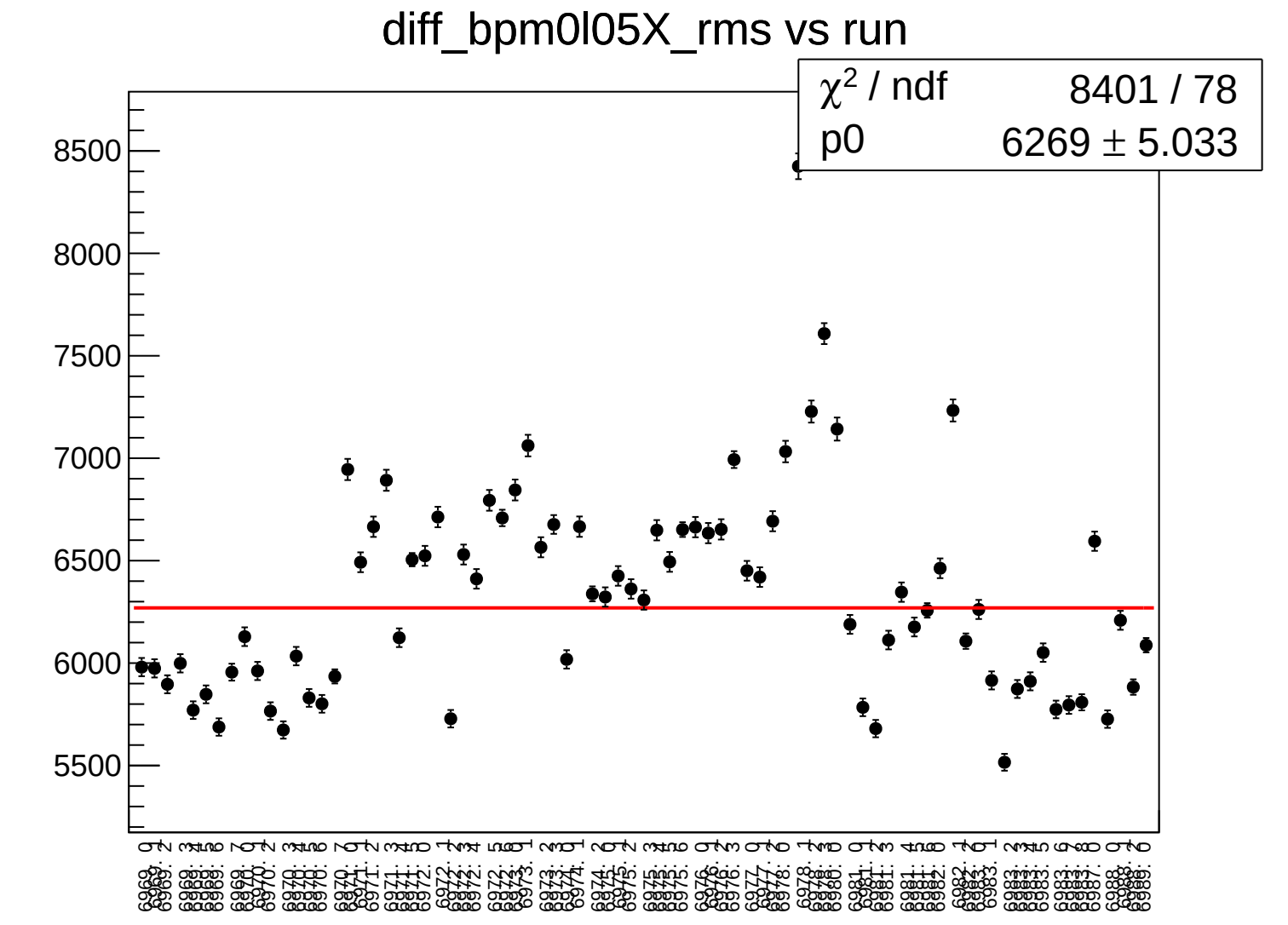

diff_bpm0l04Y_mean vs run
χ² / ndf 96.68 / 78
p0 −5.564 ± 1.986
pull
Entries 79
Mean −159.9
Std Dev 198.1

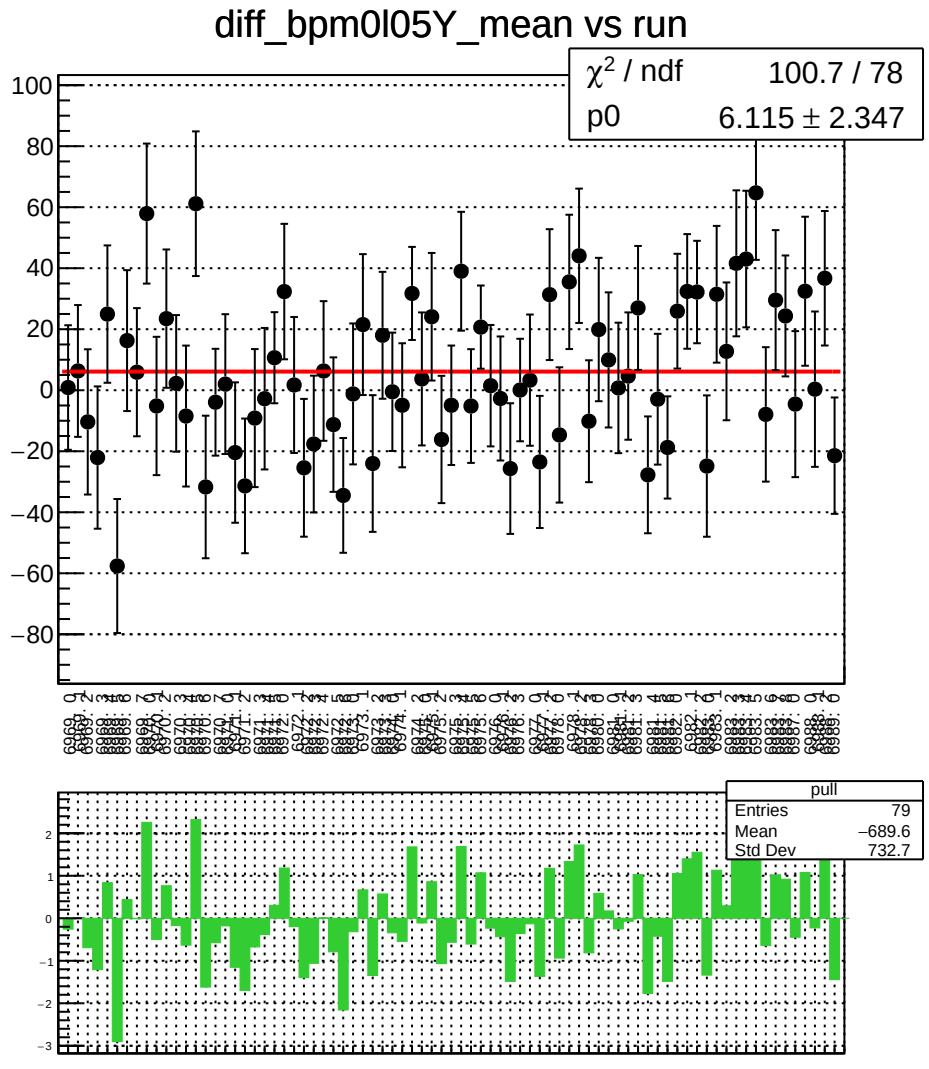

pull1D
Entries 79
Mean 0.02955
Std Dev 1.106

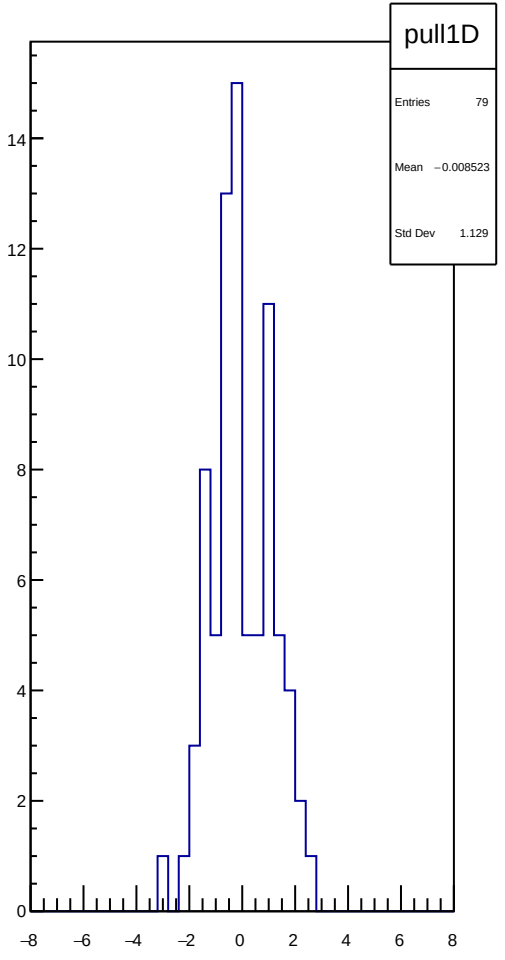

diff_bpm0l04Y_rms vs run
χ² / ndf 1.864e+04 / 78
p0 1743 ± 1.404
2200
2100
2000
1900
1800
1700
1600
1500
1400

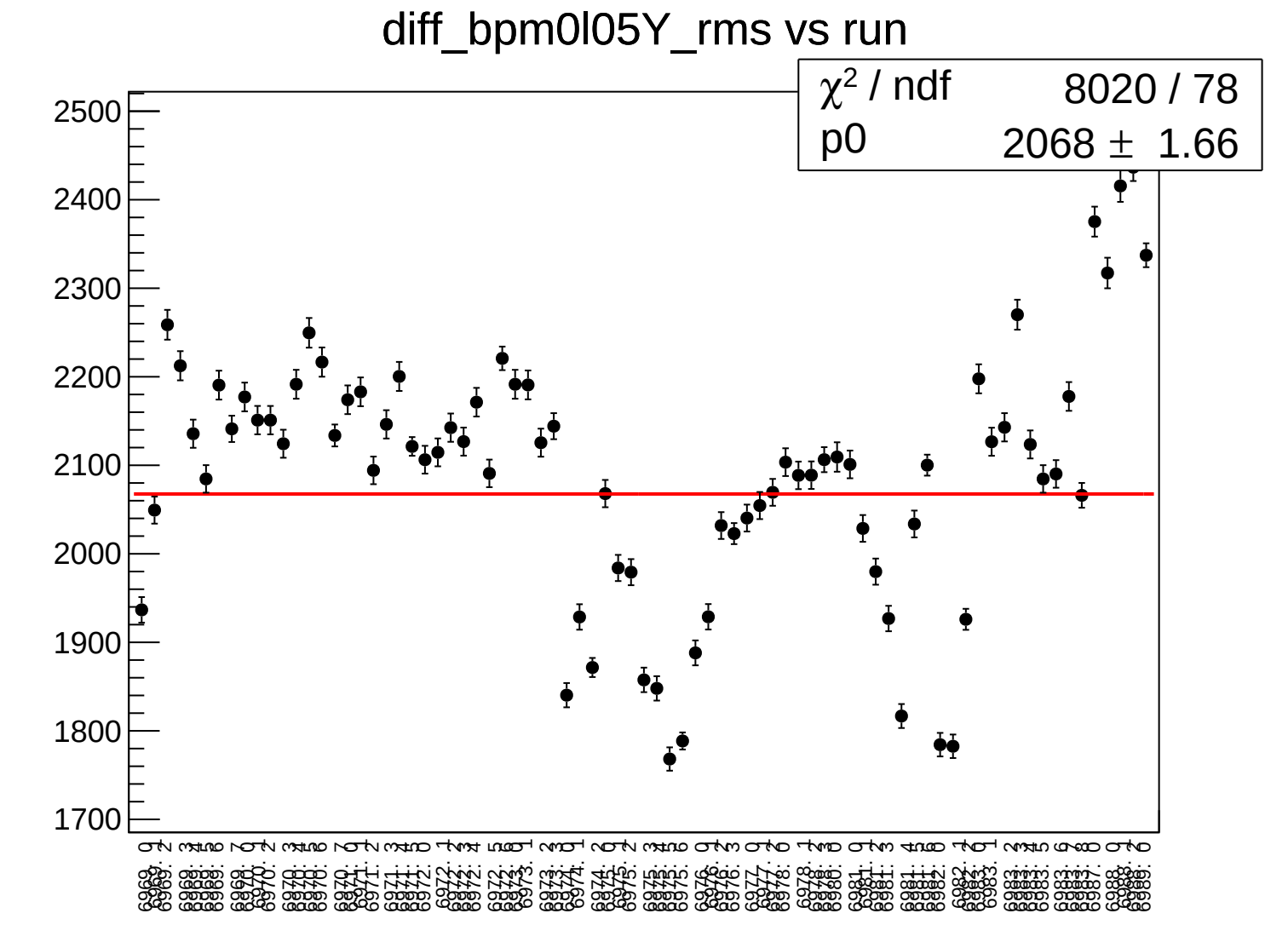

diff_bpm0l05X_mean vs run
χ² / ndf 51.57 / 78
p0 −17.44 ± 7.118
pull
Entries 79
Mean −819.2
Std Dev 860.8

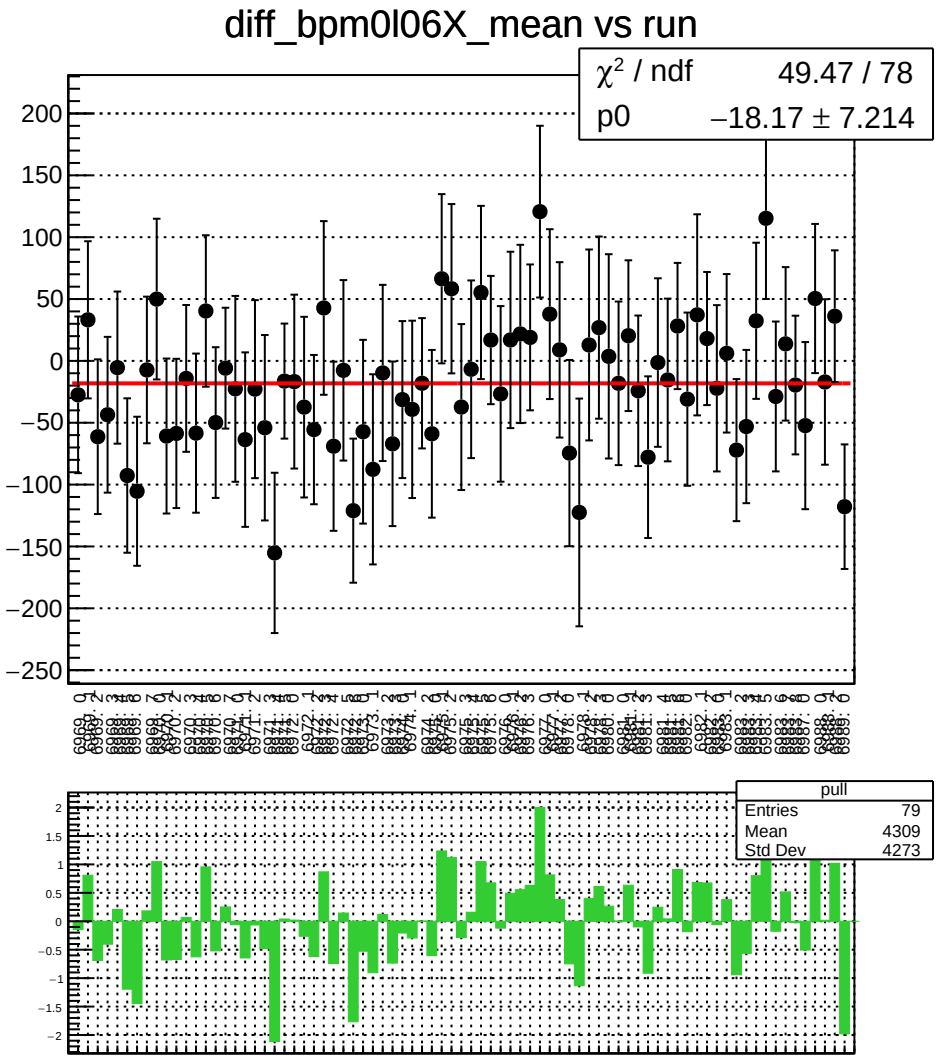

pull1D
Entries 79
Mean −0.005146
Std Dev 0.8079

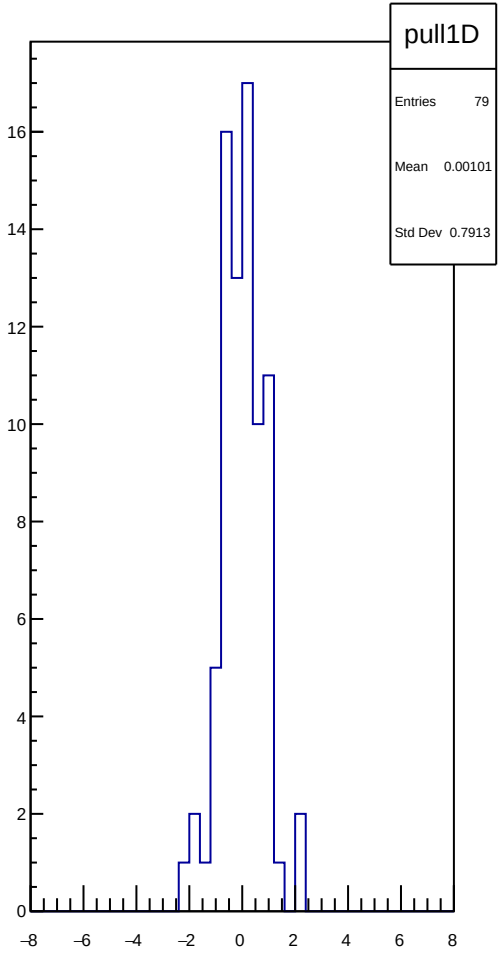

diff_bpm0l05X_rms vs run
χ² / ndf 8401 / 78
p0 6269 ± 5.033
8500
8000
7500
7000
6500
6000
5500

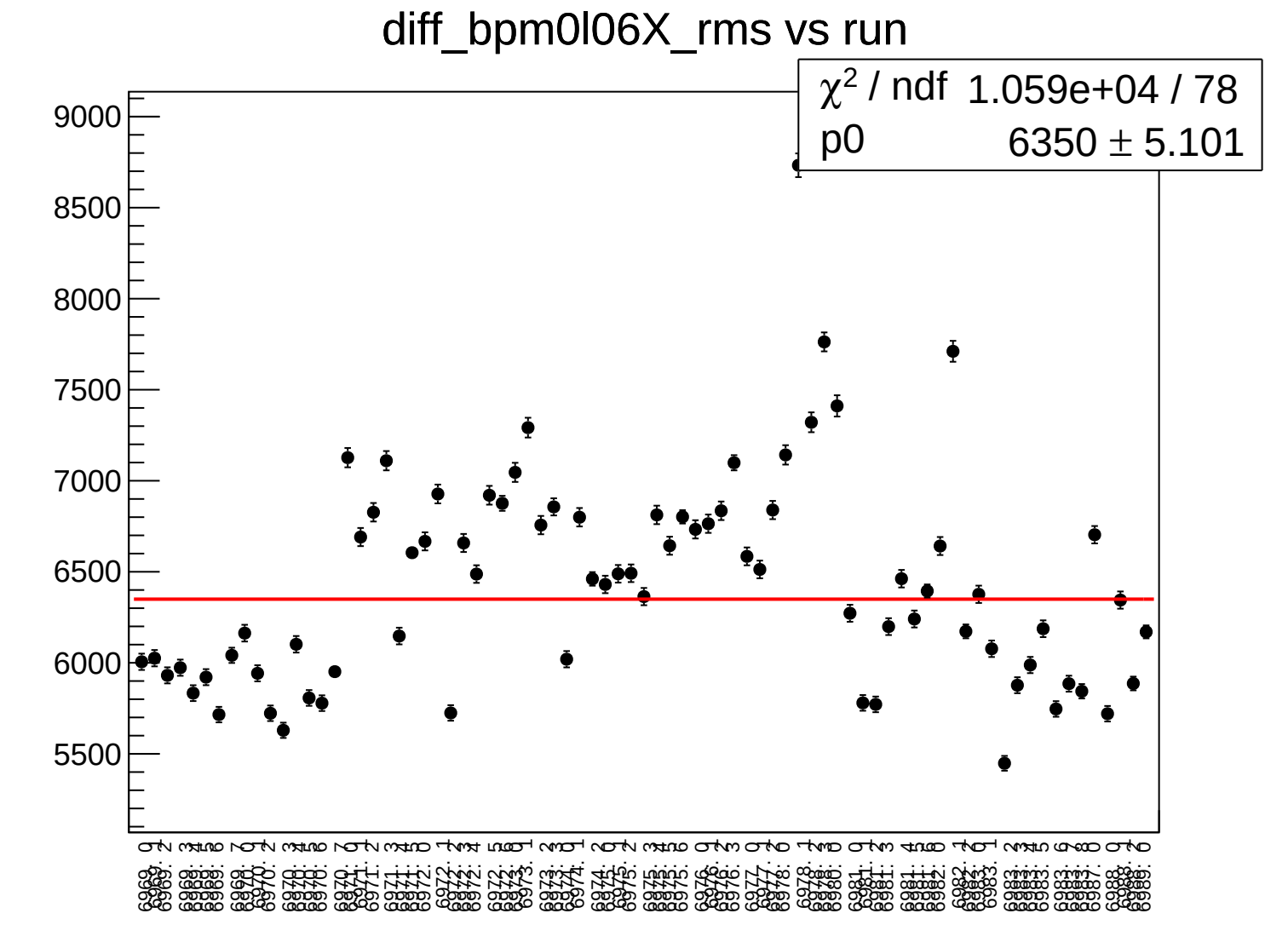

diff_bpm0l05Y_mean vs run
χ² / ndf 100.7 / 78
p0 6.115 ± 2.347
pull
Entries 79
Mean −689.6
Std Dev 732.7

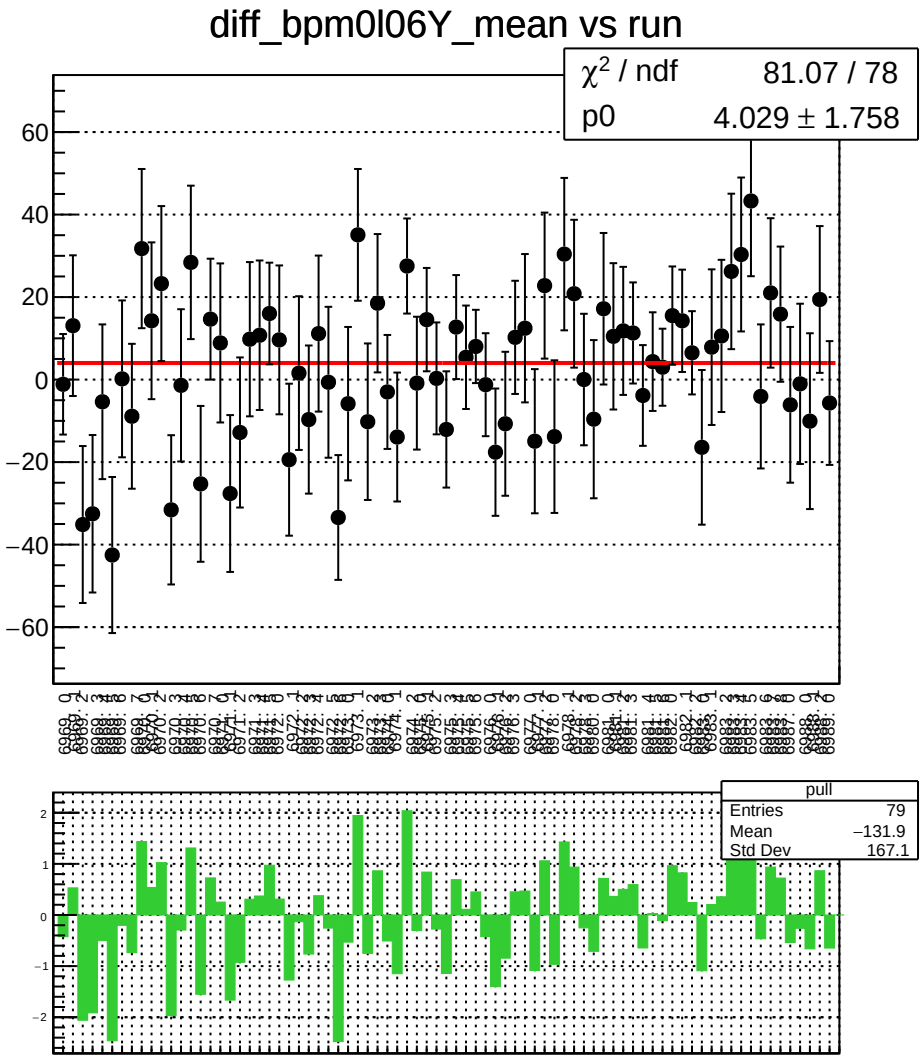

pull1D
Entries 79
Mean −0.008523
Std Dev 1.129

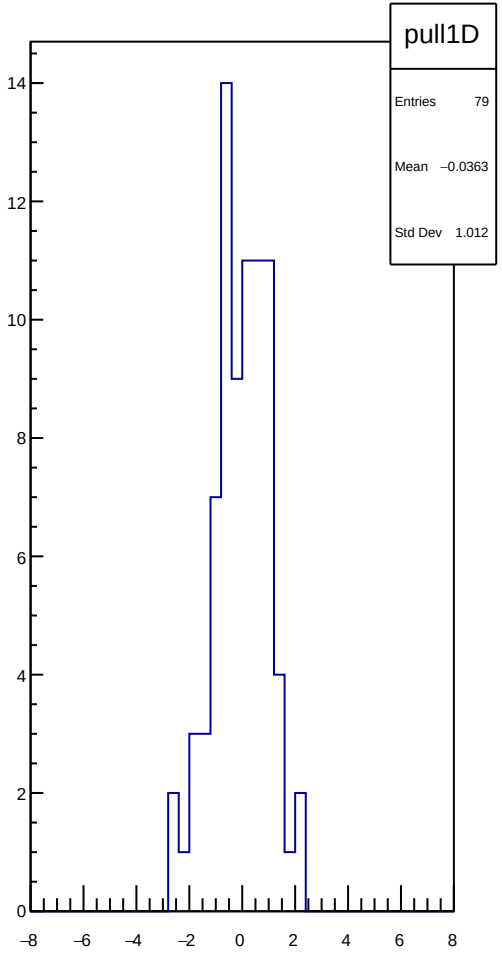

diff_bpm0l05Y_rms vs run
χ² / ndf 8020 / 78
p0 2068 ± 1.66
2500
2400
2300
2200
2100
2000
1900
1800
1700

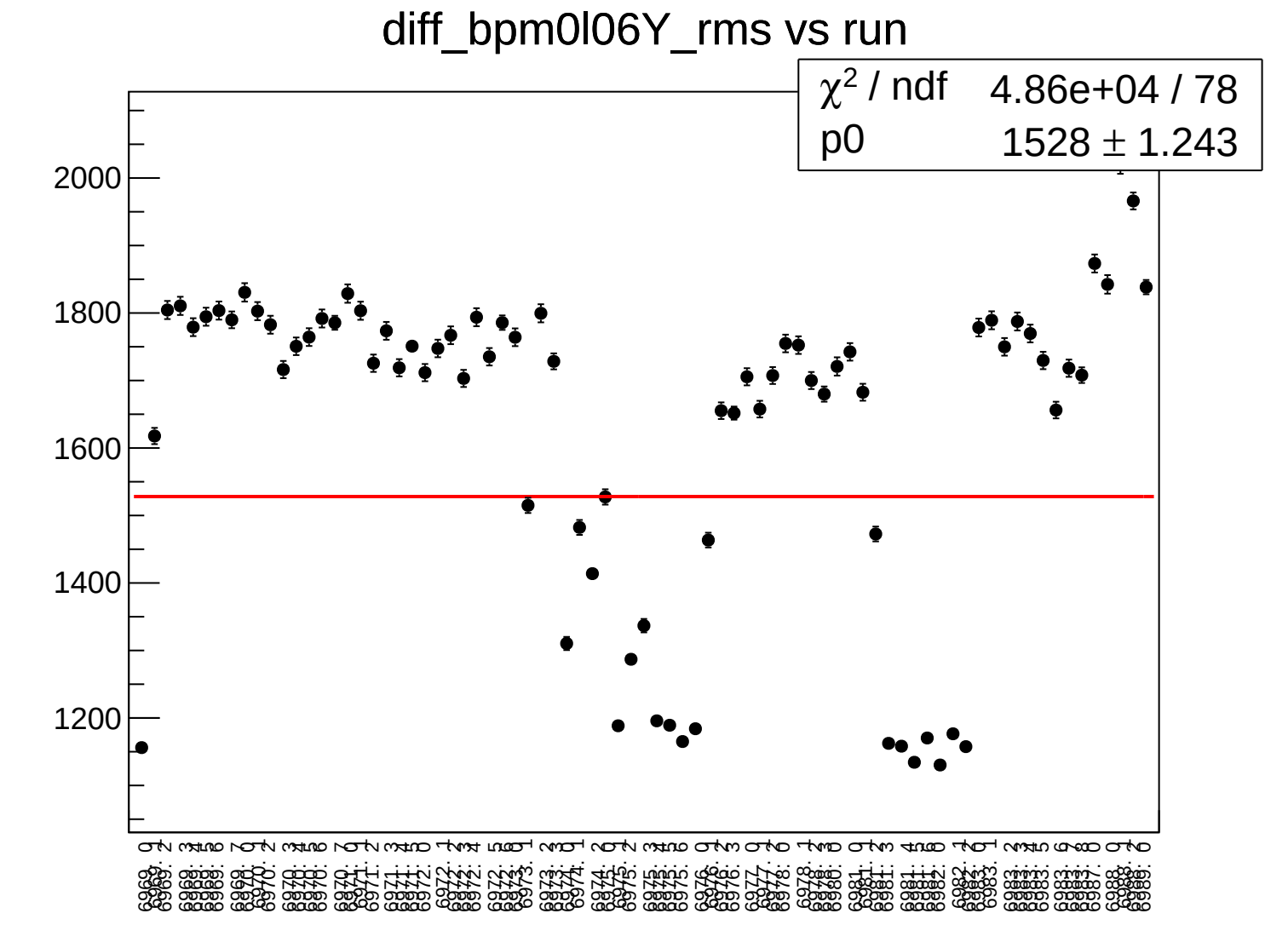

diff_bpm0l06X_mean vs run
χ² / ndf 49.47 / 78
p0 −18.17 ± 7.214
pull
Entries 79
Mean 4309
Std Dev 4273

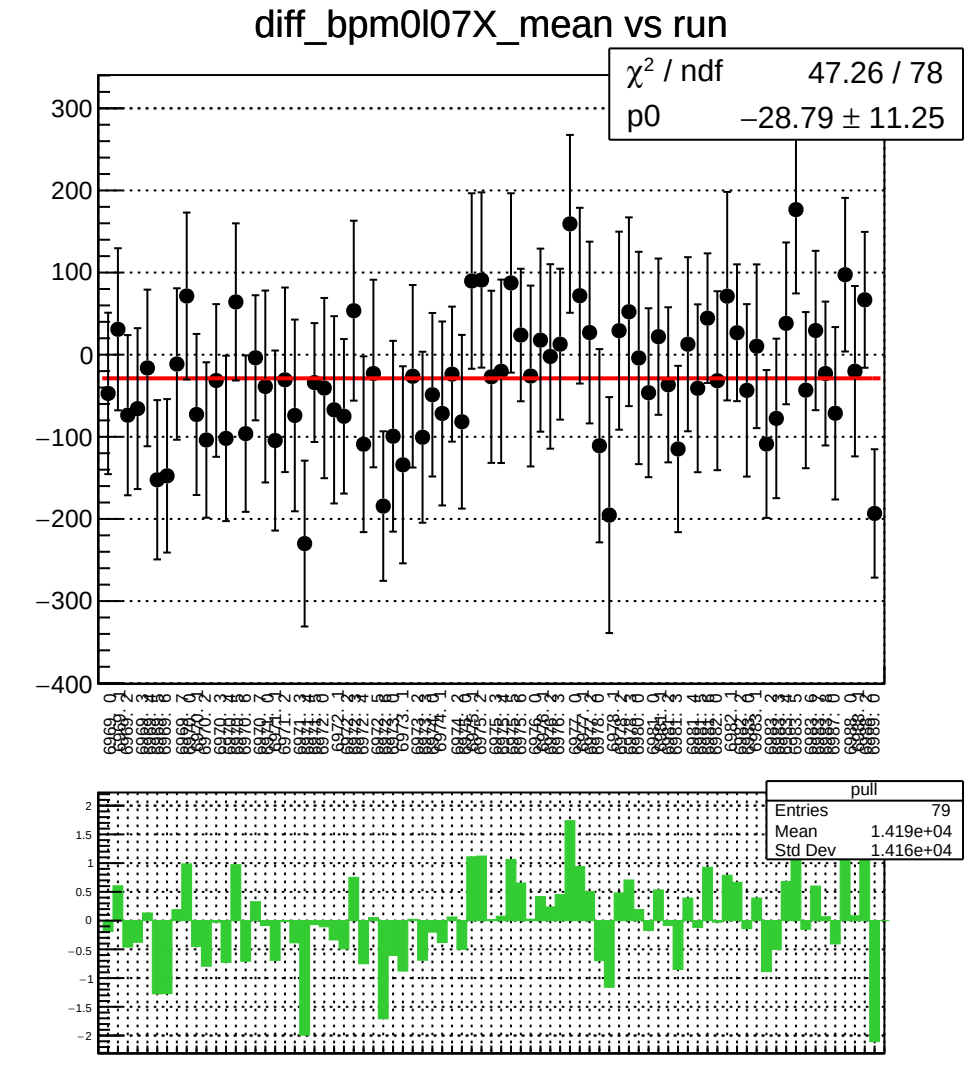

pull1D
Entries 79
Mean 0.00101
Std Dev 0.7913

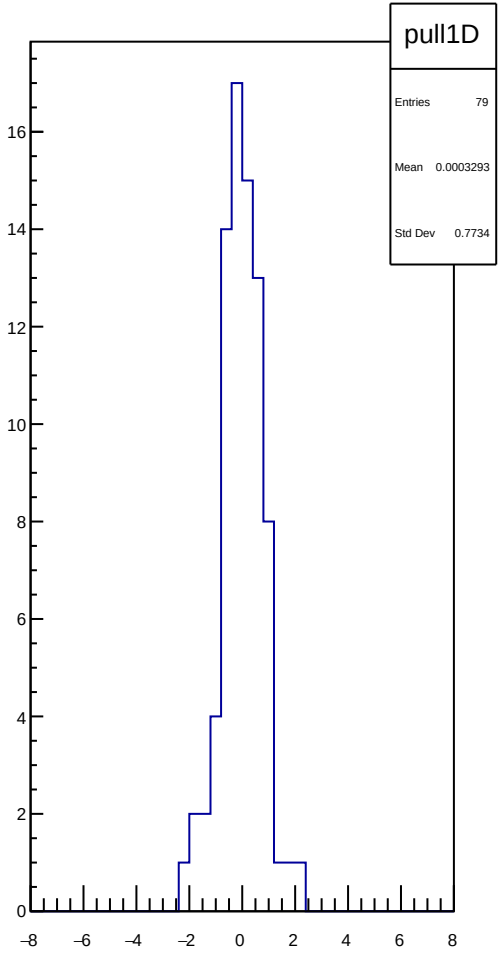

diff_bpm0l06X_rms vs run
χ² / ndf 1.059e+04 / 78
p0 6350 ± 5.101
9000
8500
8000
7500
7000
6500
6000
5500

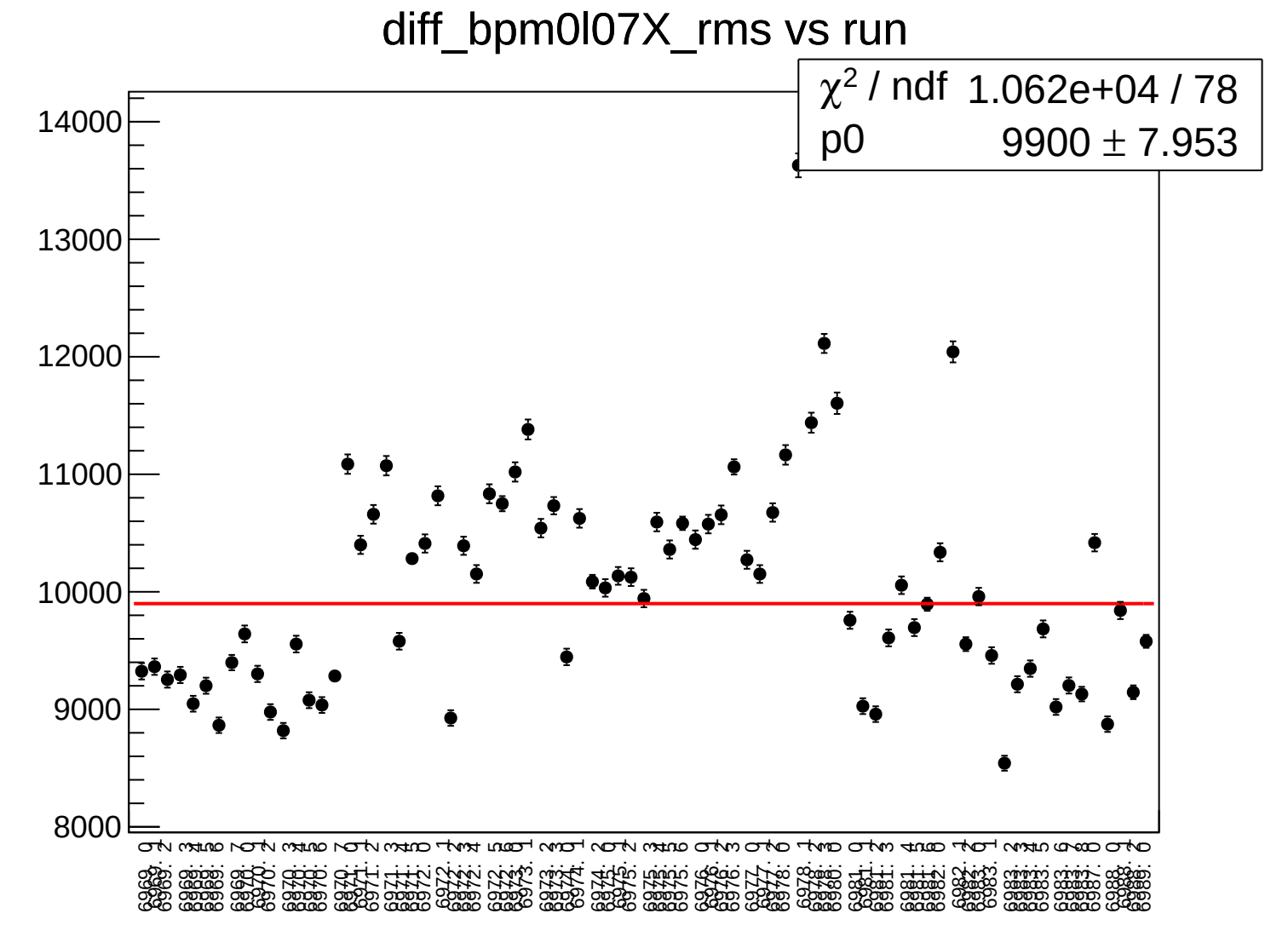

diff_bpm0l06Y_mean vs run
χ² / ndf 81.07 / 78
p0 4.029 ± 1.758
pull
Entries 79
Mean −131.9
Std Dev 167.1

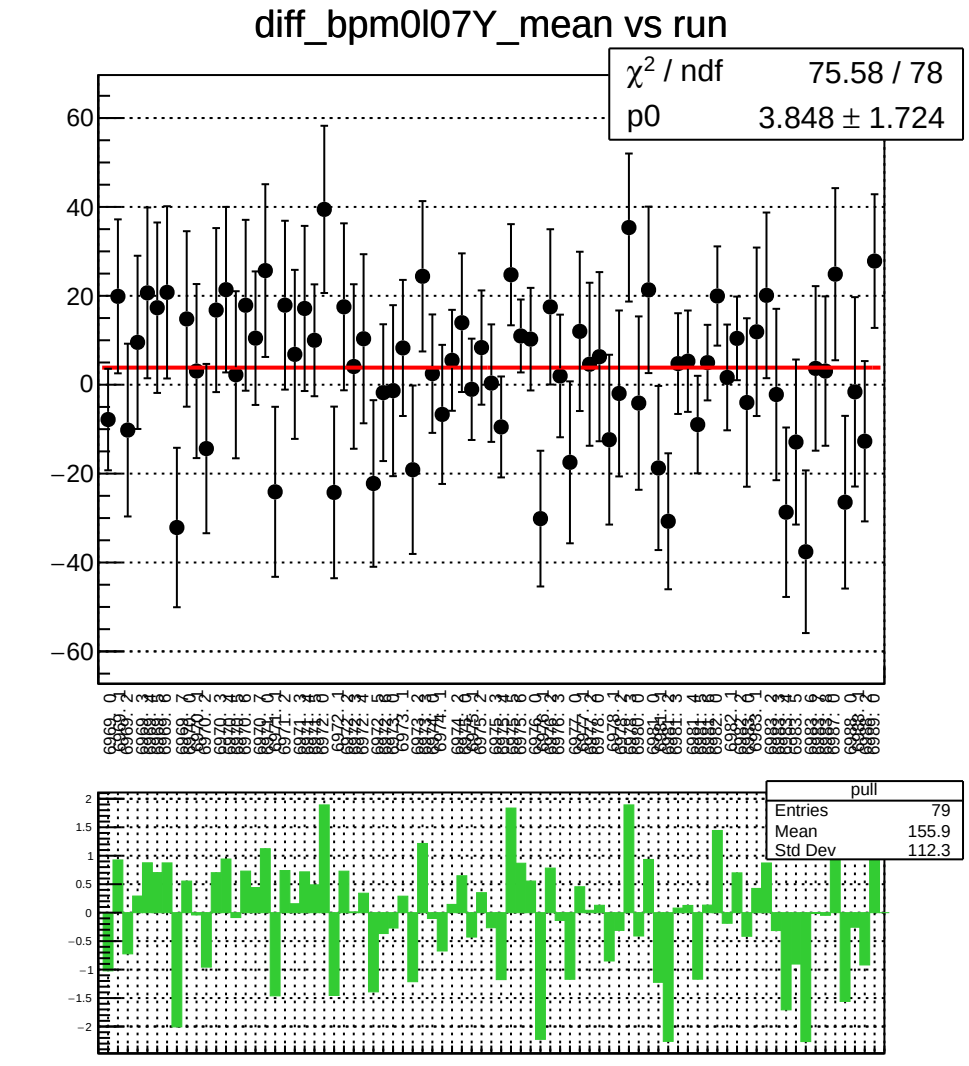

pull1D
Entries 79
Mean −0.0363
Std Dev 1.012

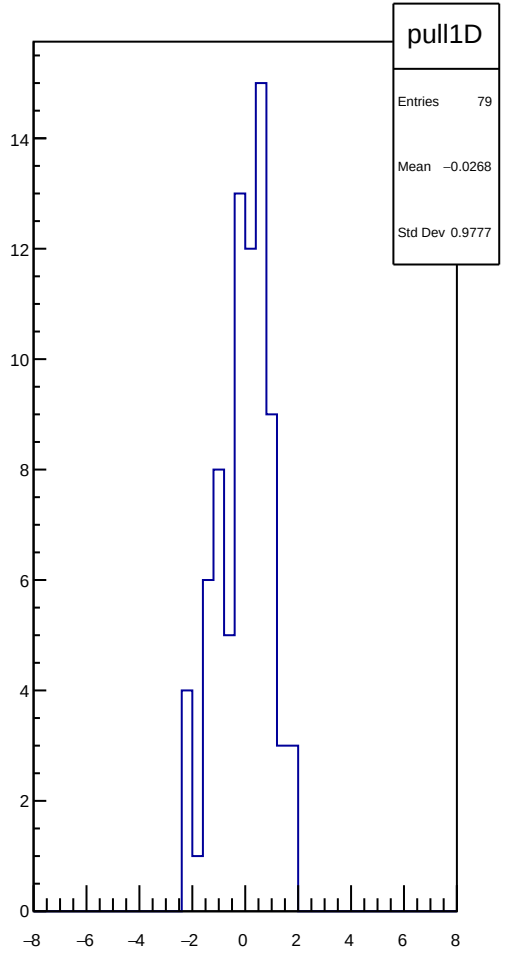

diff_bpm0l06Y_rms vs run
χ² / ndf 4.86e+04 / 78
p0 1528 ± 1.243
2000
1800
1600
1400
1200

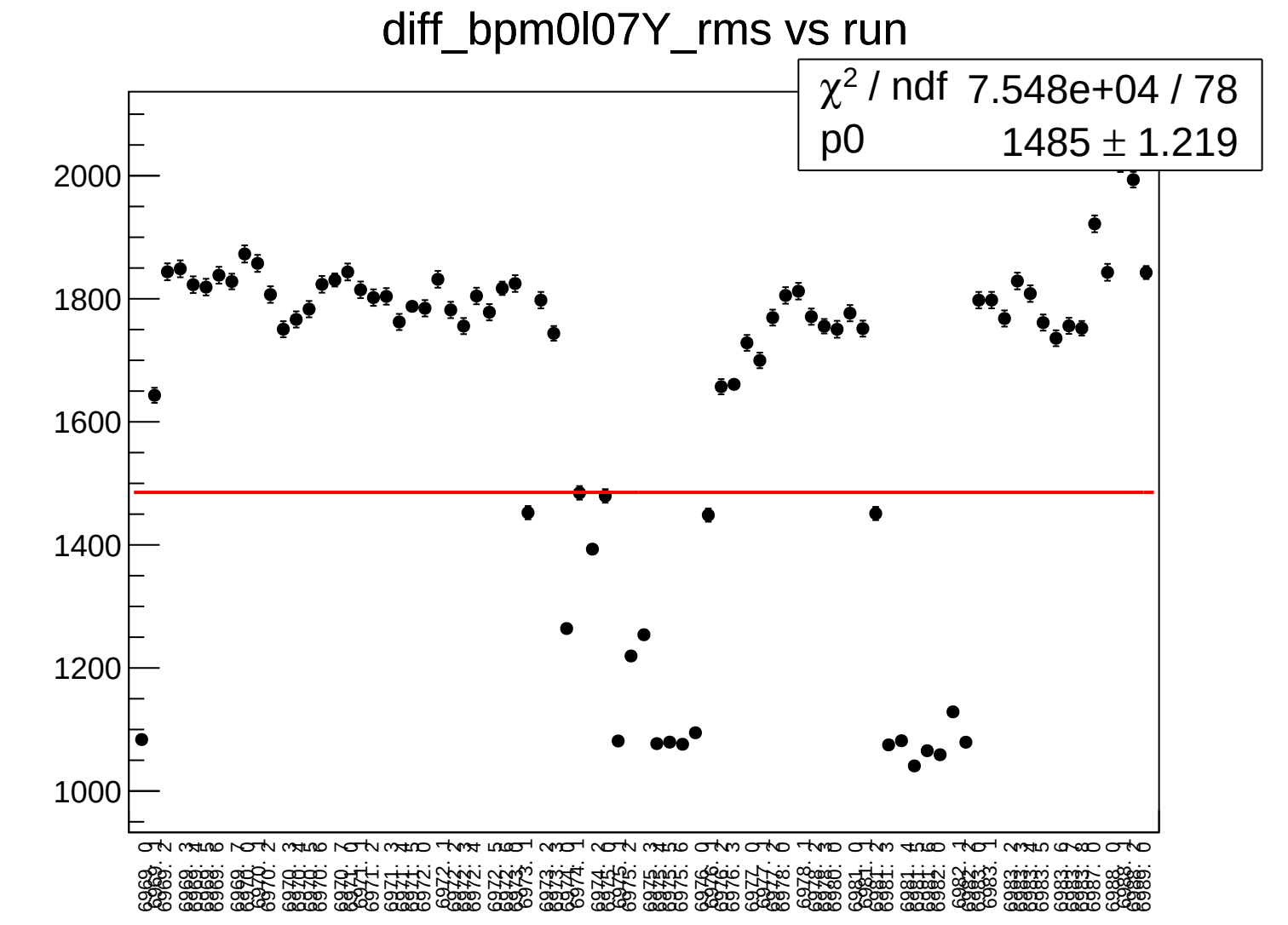

diff_bpm0l07X_mean vs run
χ² / ndf 47.26 / 78
p0 −28.79 ± 11.25
pull
Entries 79
Mean 1.419e+04
Std Dev 1.416e+04

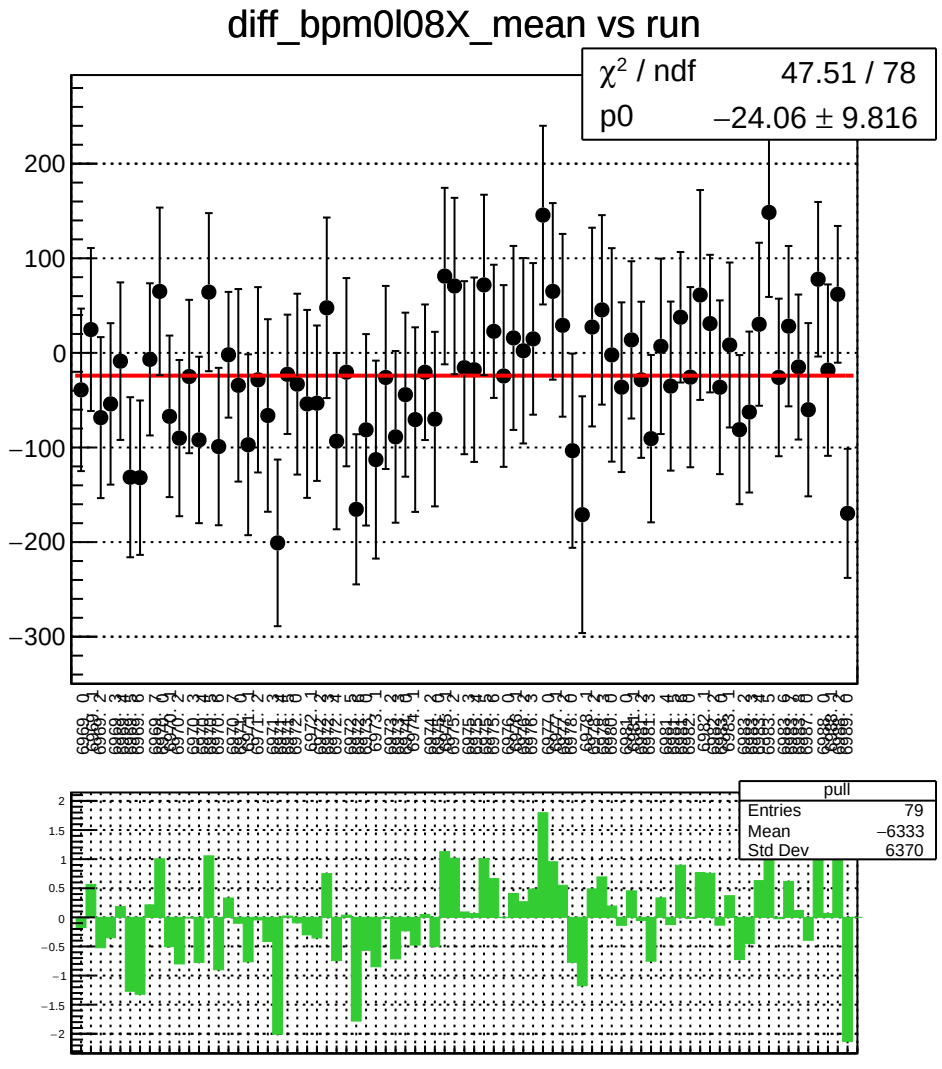

pull1D
Entries 79
Mean 0.0003293
Std Dev 0.7734

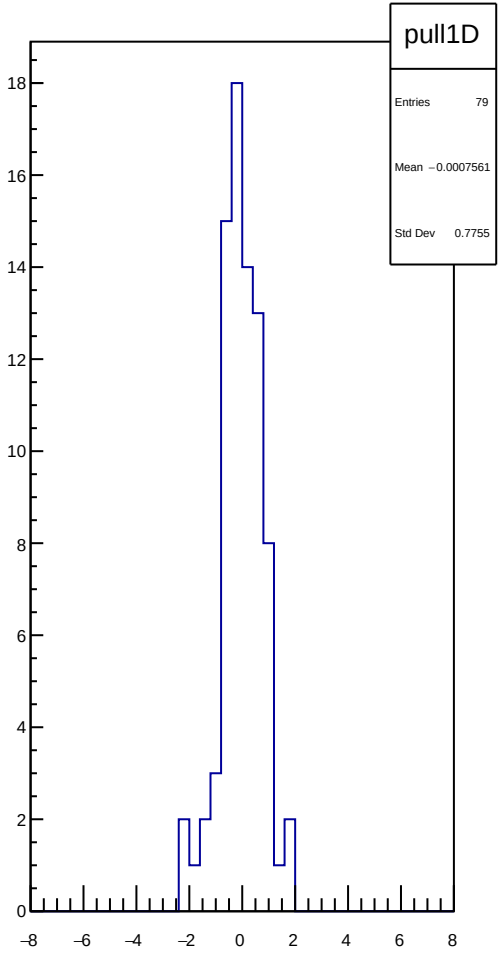

diff_bpm0l07X_rms vs run
χ² / ndf 1.062e+04 / 78
p0 9900 ± 7.953
14000
13000
12000
11000
10000
9000
8000

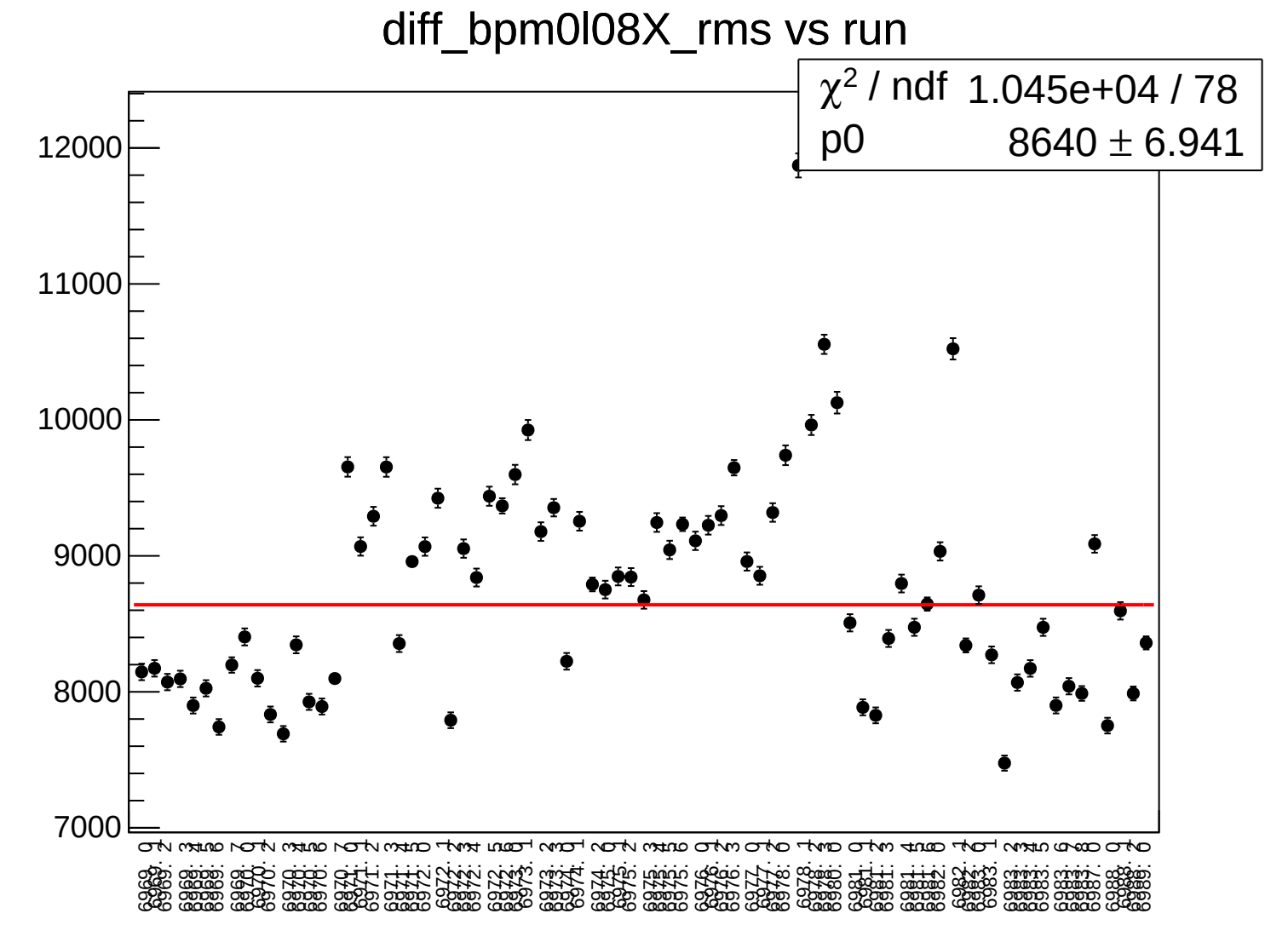

diff_bpm0l07Y_mean vs run
χ² / ndf 75.58 / 78
p0 3.848 ± 1.724
pull
Entries 79
Mean 155.9
Std Dev 112.3

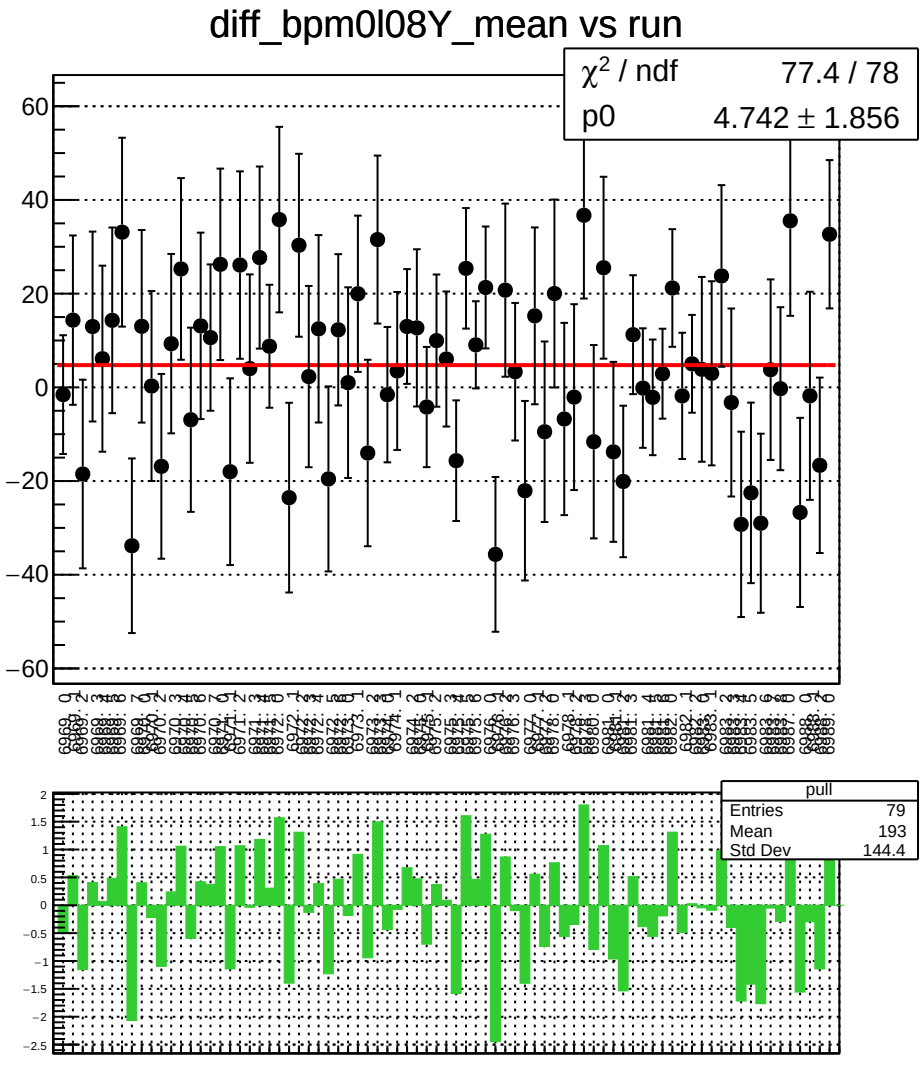

pull1D
Entries 79
Mean −0.0268
Std Dev 0.9777

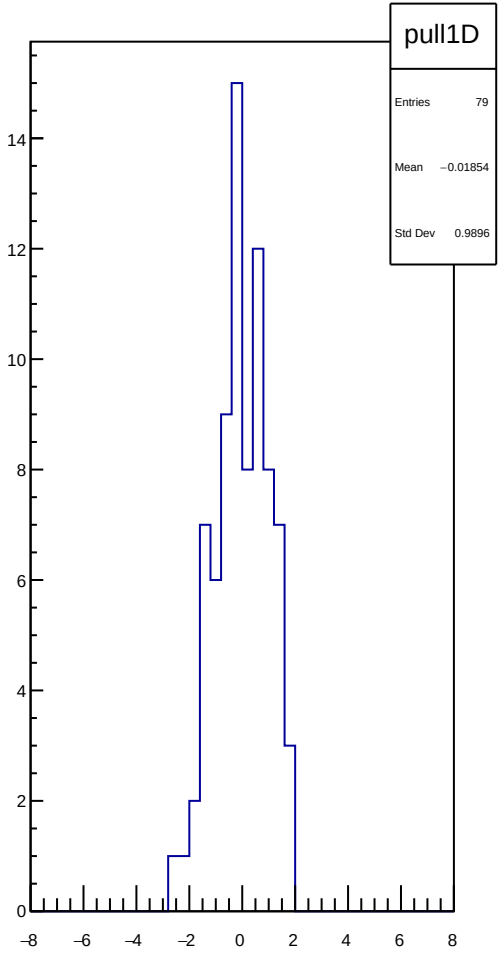

diff_bpm0l07Y_rms vs run
χ² / ndf 7.548e+04 / 78
p0 1485 ± 1.219
2000
1800
1600
1400
1200
1000

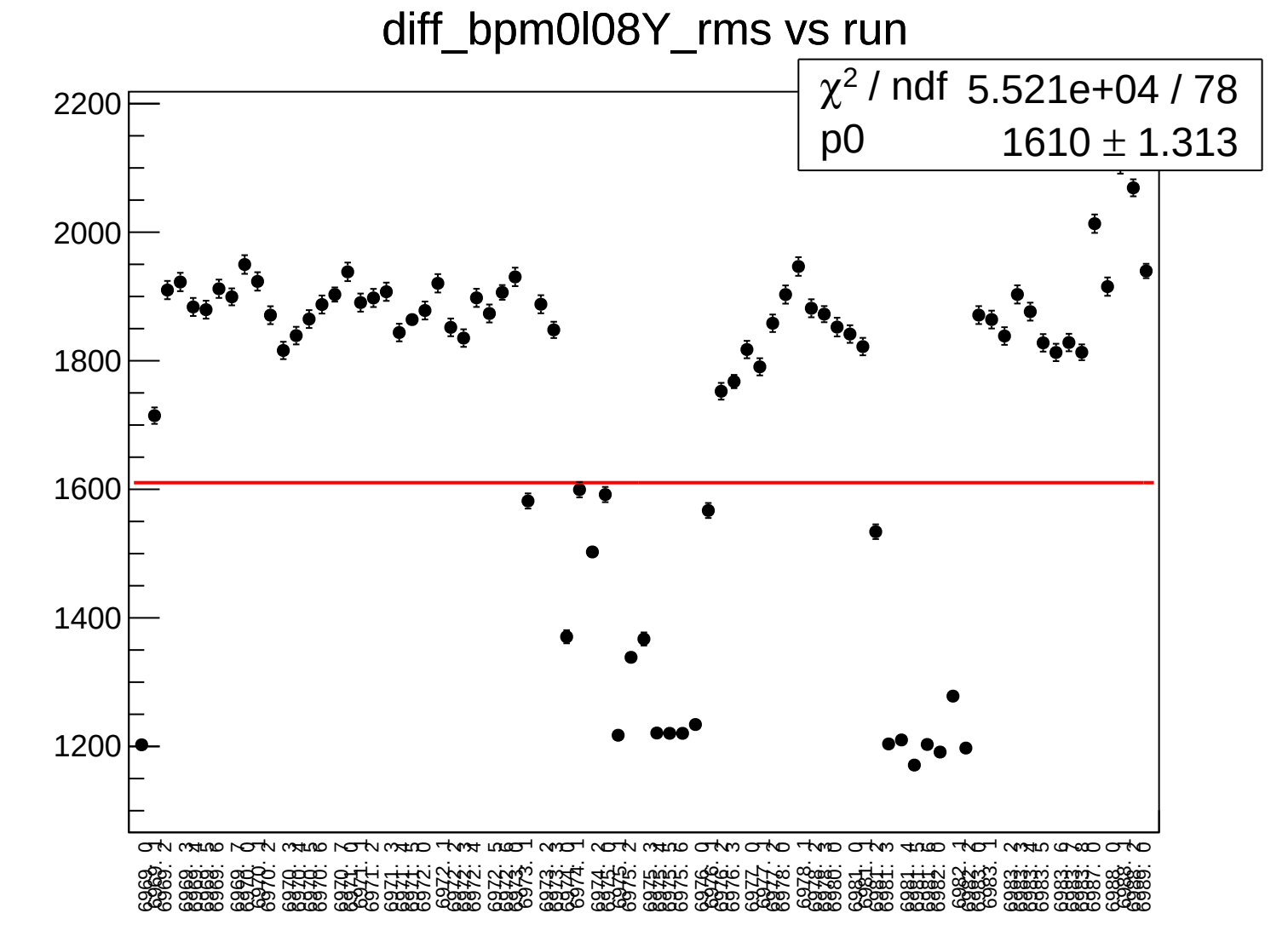

diff_bpm0l08X_mean vs run
χ² / ndf 47.51 / 78
p0 −24.06 ± 9.816
pull
Entries 79
Mean −6333
Std Dev 6370

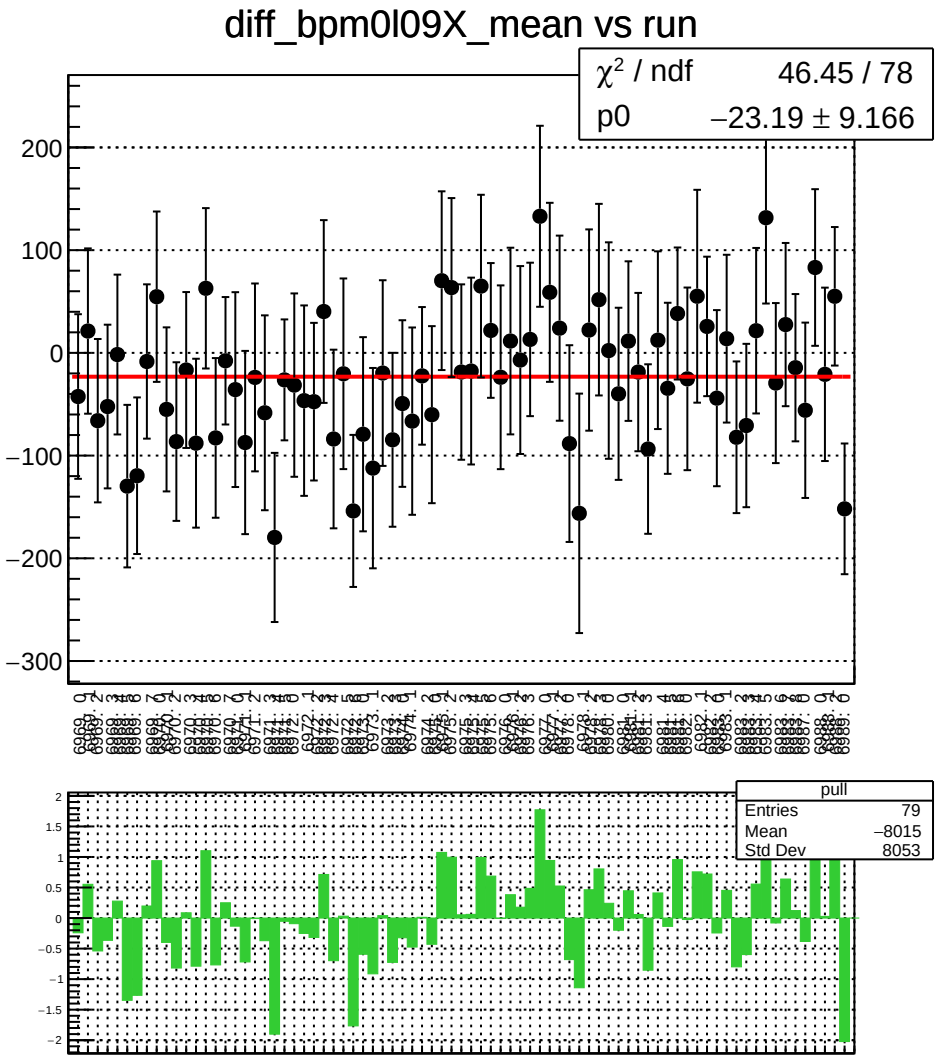

pull1D
Entries 79
Mean −0.0007561
Std Dev 0.7755

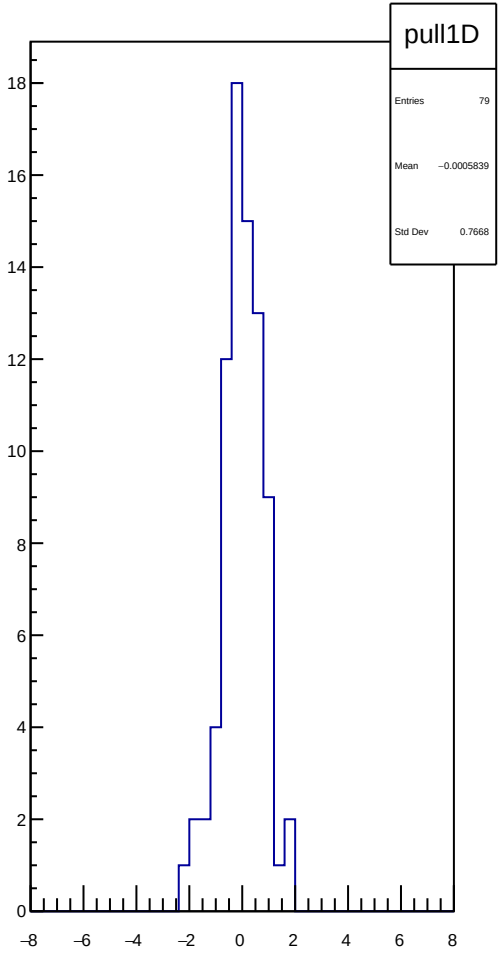

diff_bpm0l08X_rms vs run
χ² / ndf 1.045e+04 / 78
p0 8640 ± 6.941
12000
11000
10000
9000
8000
7000

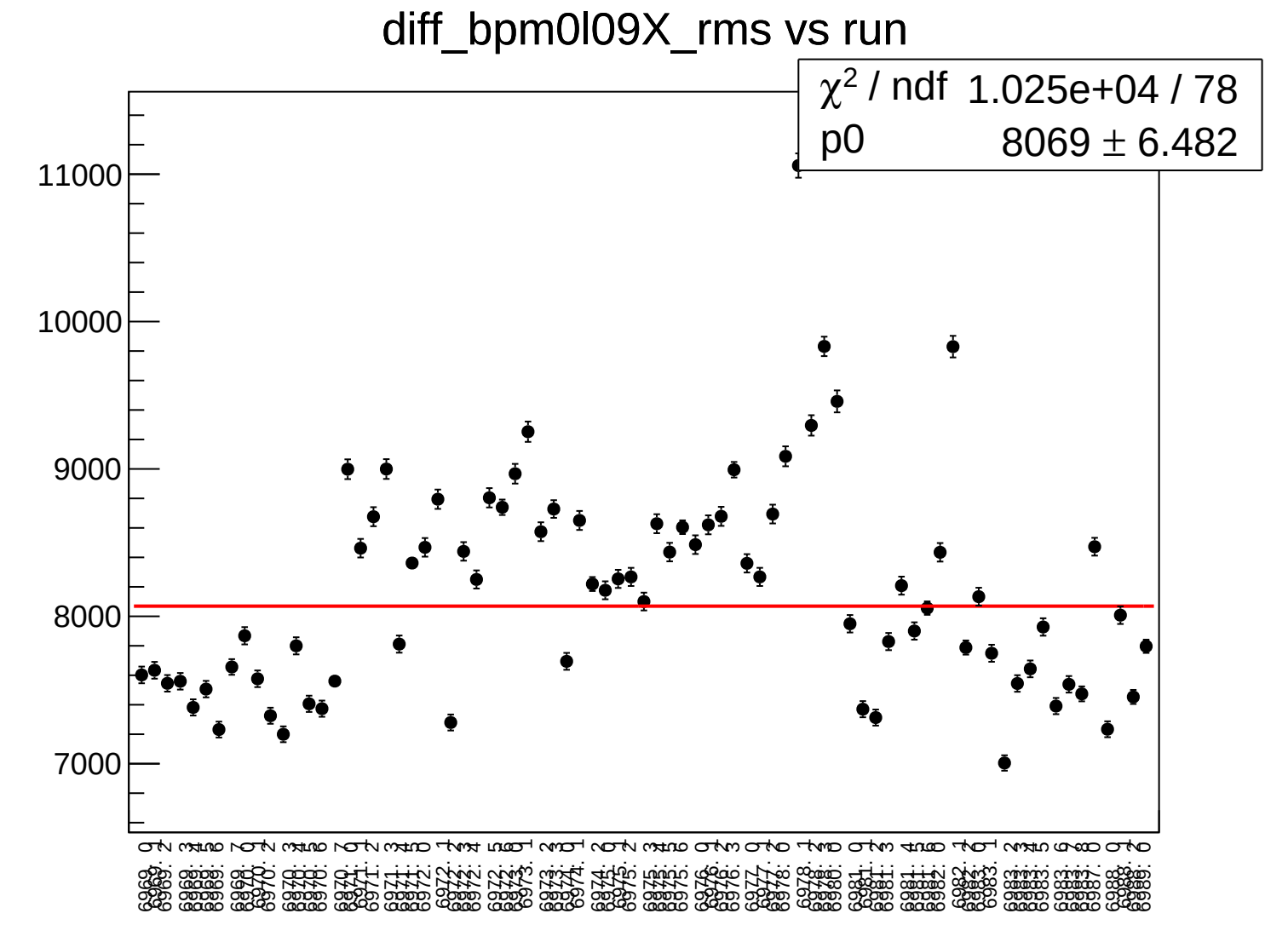

diff_bpm0l08Y_mean vs run
χ^2 / ndf 77.4 / 78
p0 4.742 ± 1.856
pull
Entries 79
Mean 193
Std Dev 144.4

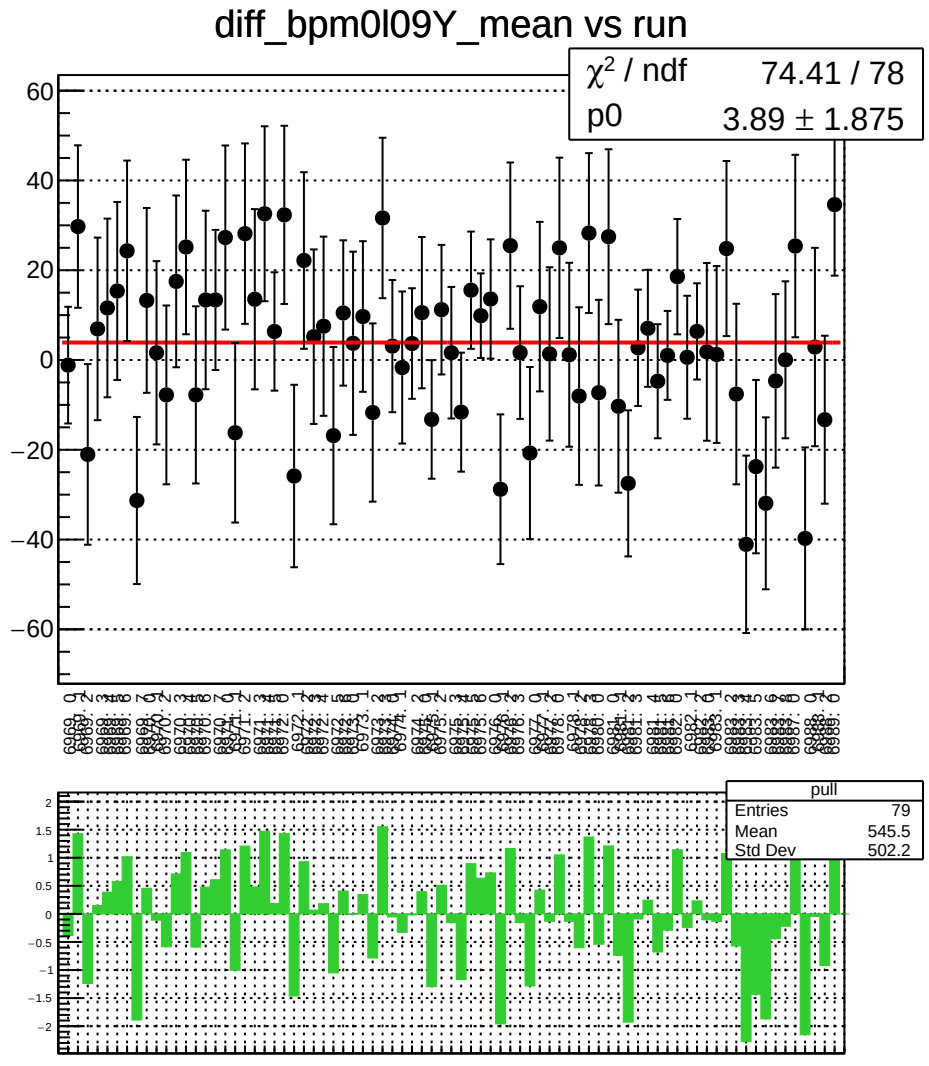

pull1D
Entries 79
Mean −0.01854
Std Dev 0.9896

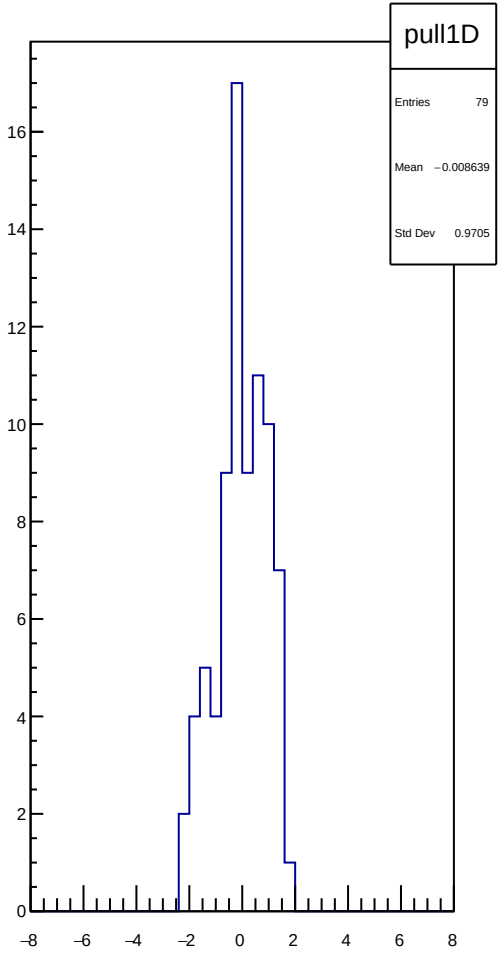

diff_bpm0l08Y_rms vs run
χ² / ndf 5.521e+04 / 78
p0 1610 ± 1.313
2200
2000
1800
1600
1400
1200

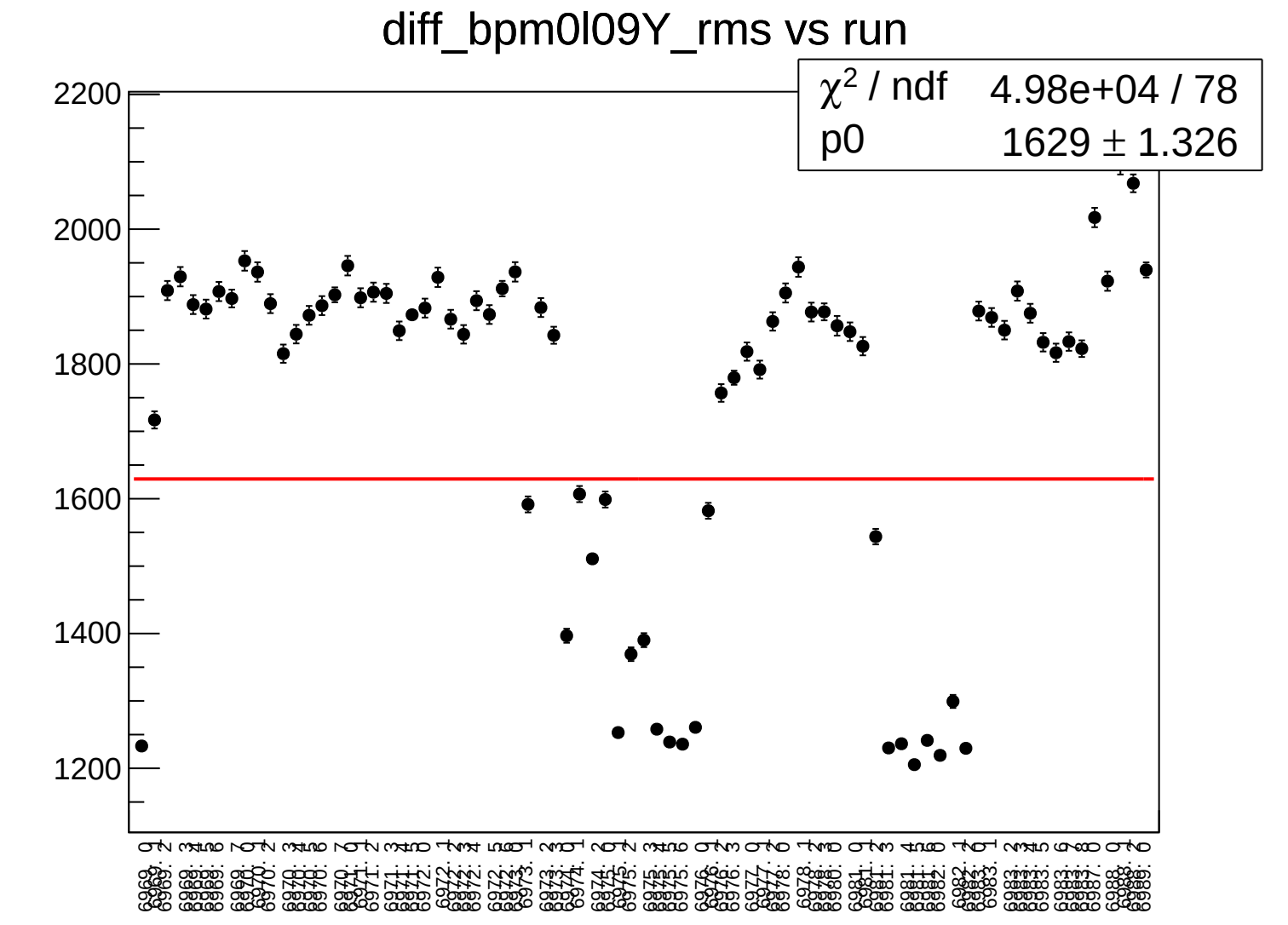

diff_bpm0l09X_mean vs run
χ² / ndf 46.45 / 78
p0 −23.19 ± 9.166
pull
Entries 79
Mean −8015
Std Dev 8053

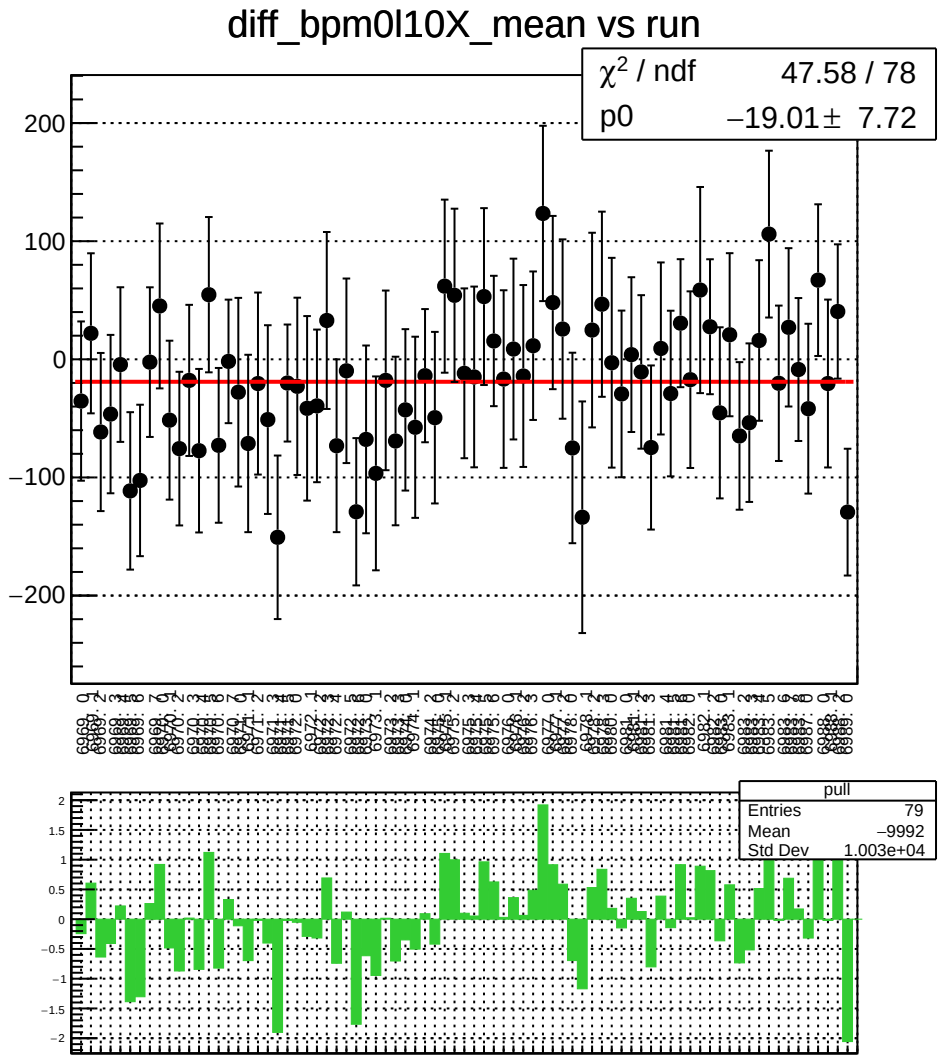

pull1D
Entries 79
Mean −0.0005839
Std Dev 0.7668

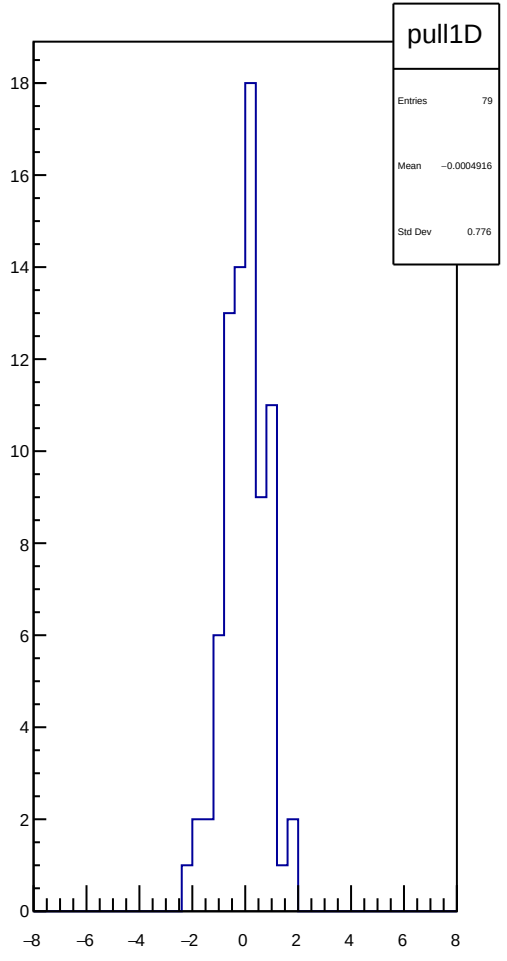

diff_bpm0l09X_rms vs run
χ² / ndf 1.025e+04 / 78
p0 8069 ± 6.482
11000
10000
9000
8000
7000

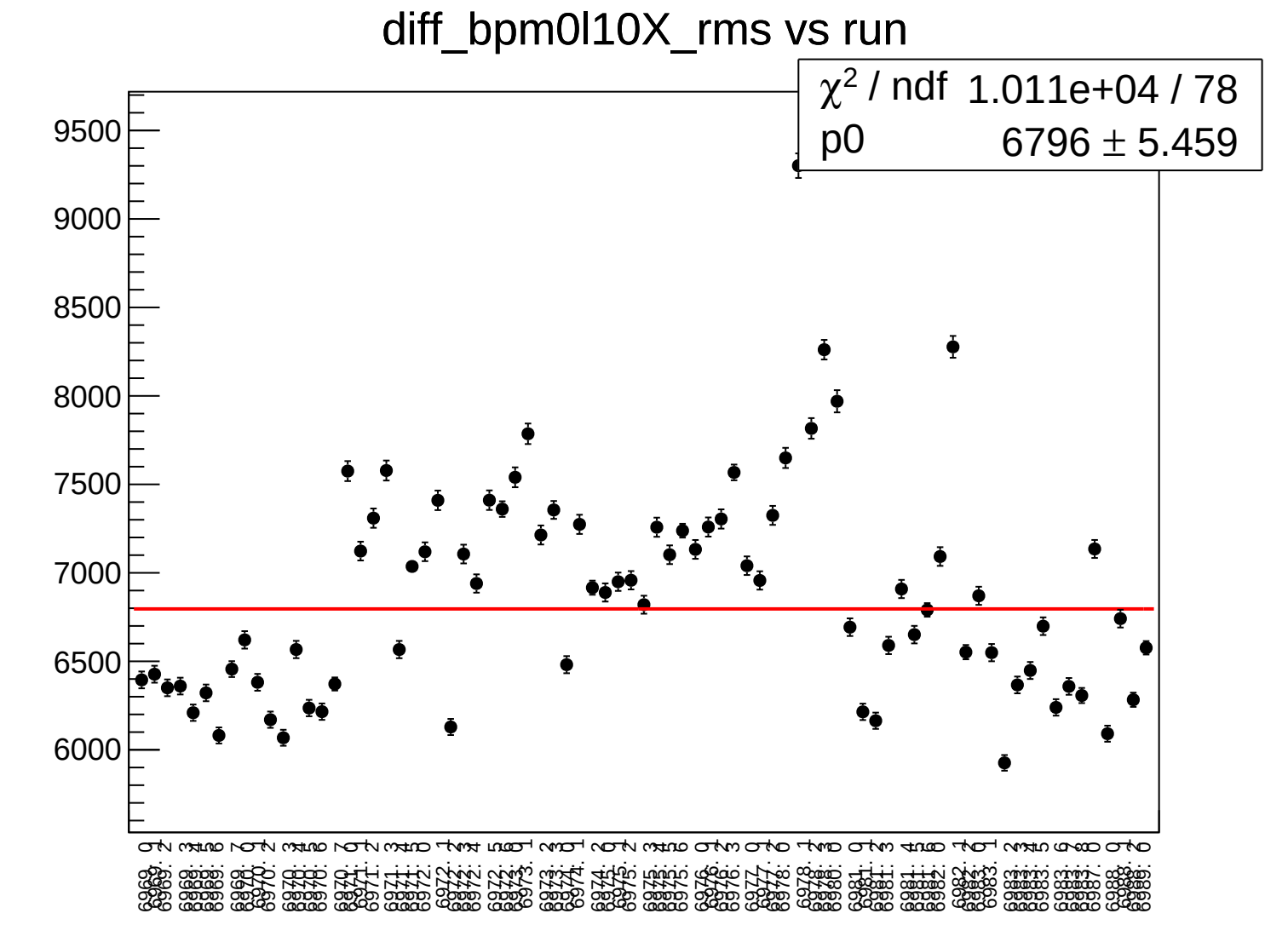

diff_bpm0l09Y_mean vs run
χ² / ndf 74.41 / 78
p0 3.89 ± 1.875
pull
Entries 79
Mean 545.5
Std Dev 502.2

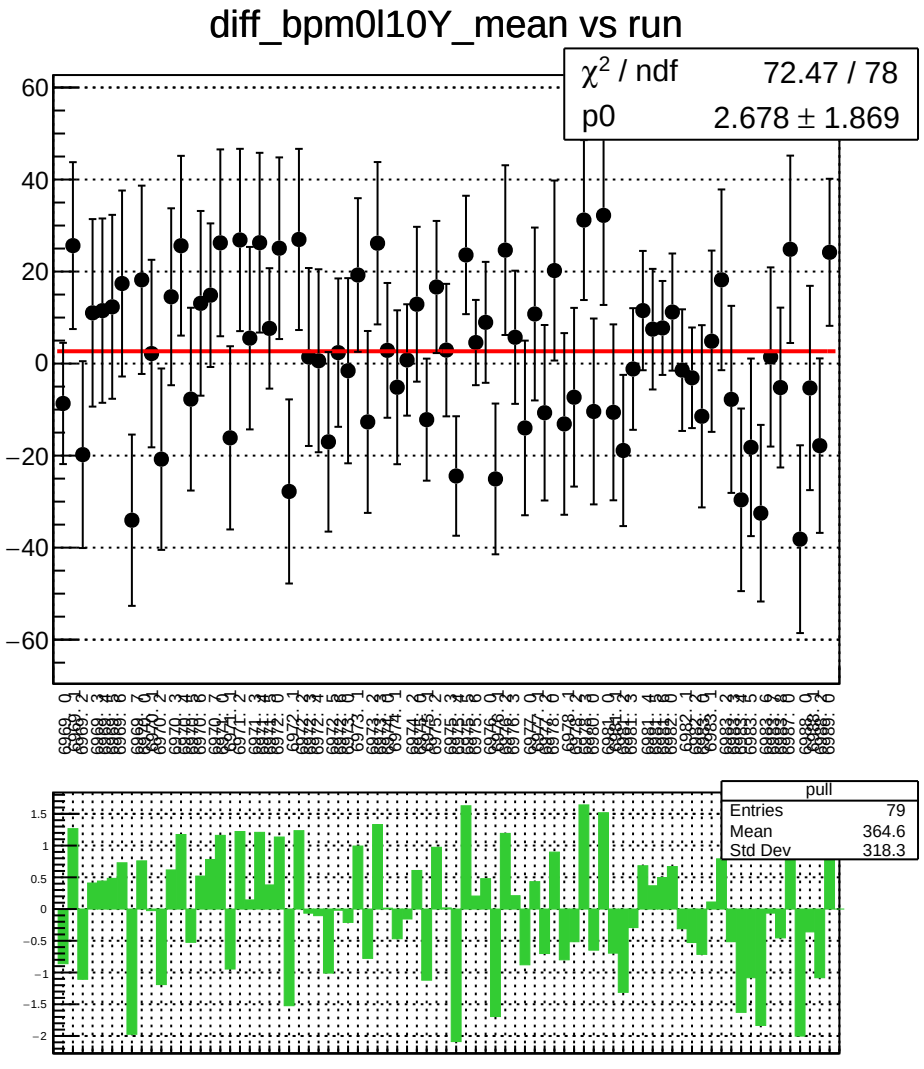

pull1D
Entries 79
Mean −0.008639
Std Dev 0.9705

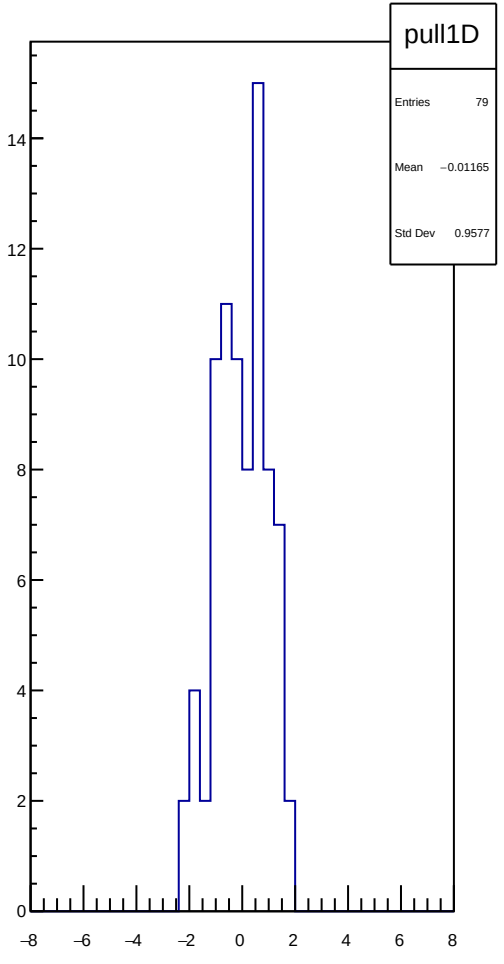

diff_bpm0l09Y_rms vs run
χ² / ndf 4.98e+04 / 78
p0 1629 ± 1.326
2200
2000
1800
1600
1400
1200

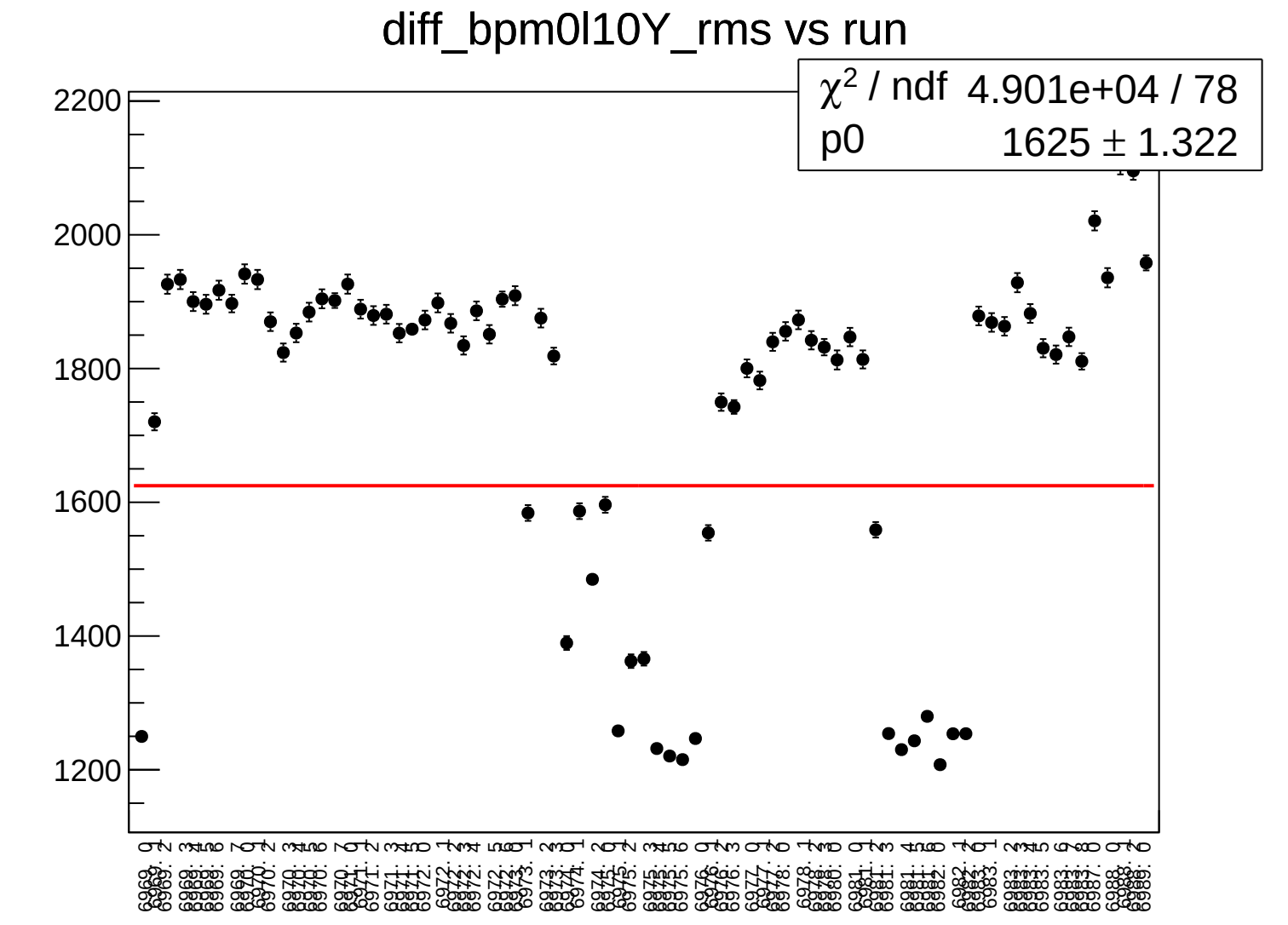

diff_bpm0l10X_mean vs run
χ^2 / ndf 47.58 / 78
p0 −19.01± 7.72
200
100
0
−100
−200
pull
Entries 79
Mean −9992
Std Dev 1.003e+04
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

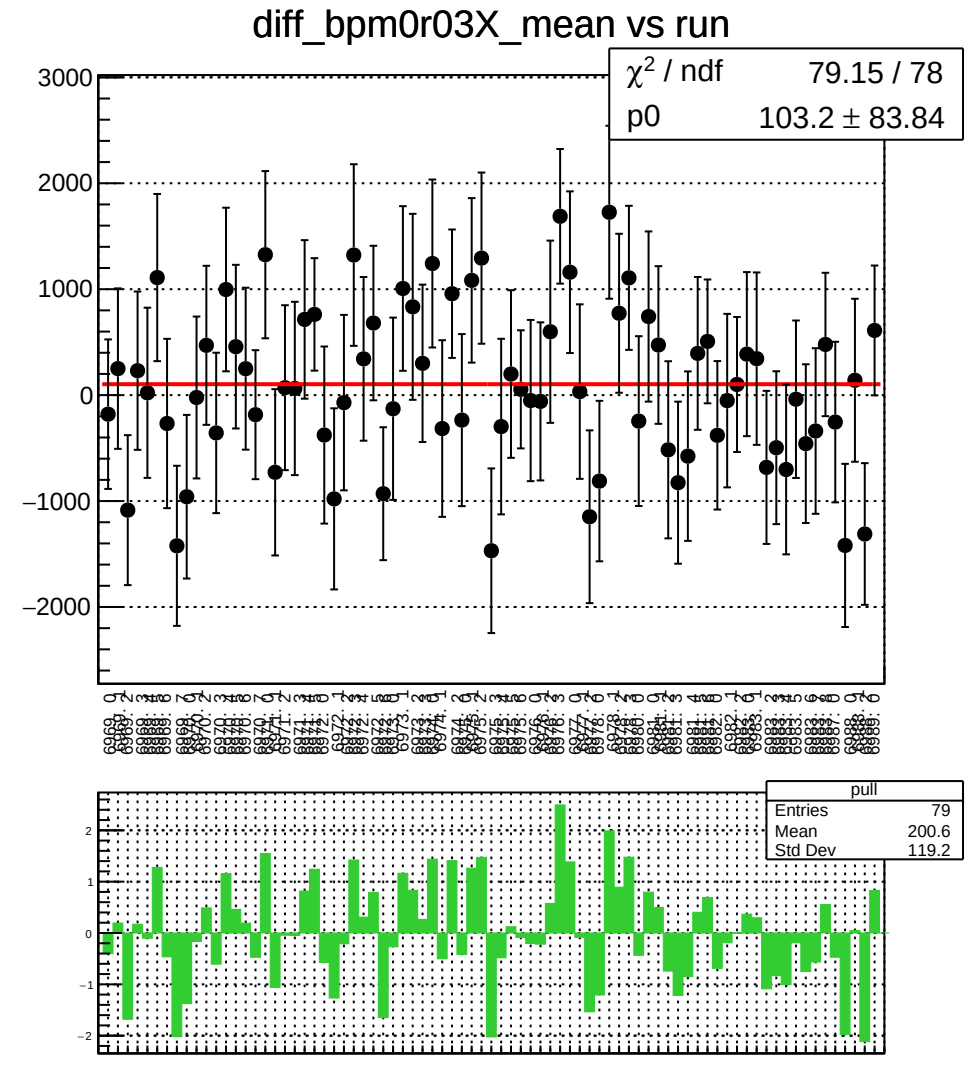

pull1D
Entries 79
Mean −0.0004916
Std Dev 0.776
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

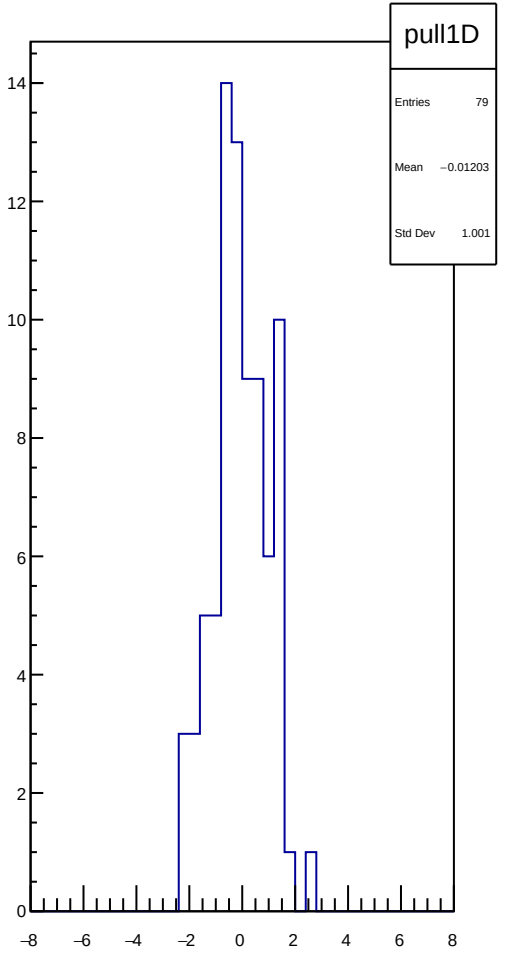

diff_bpm0l10X_rms vs run
χ² / ndf 1.011e+04 / 78
p0 6796 ± 5.459
9500
9000
8500
8000
7500
7000
6500
6000

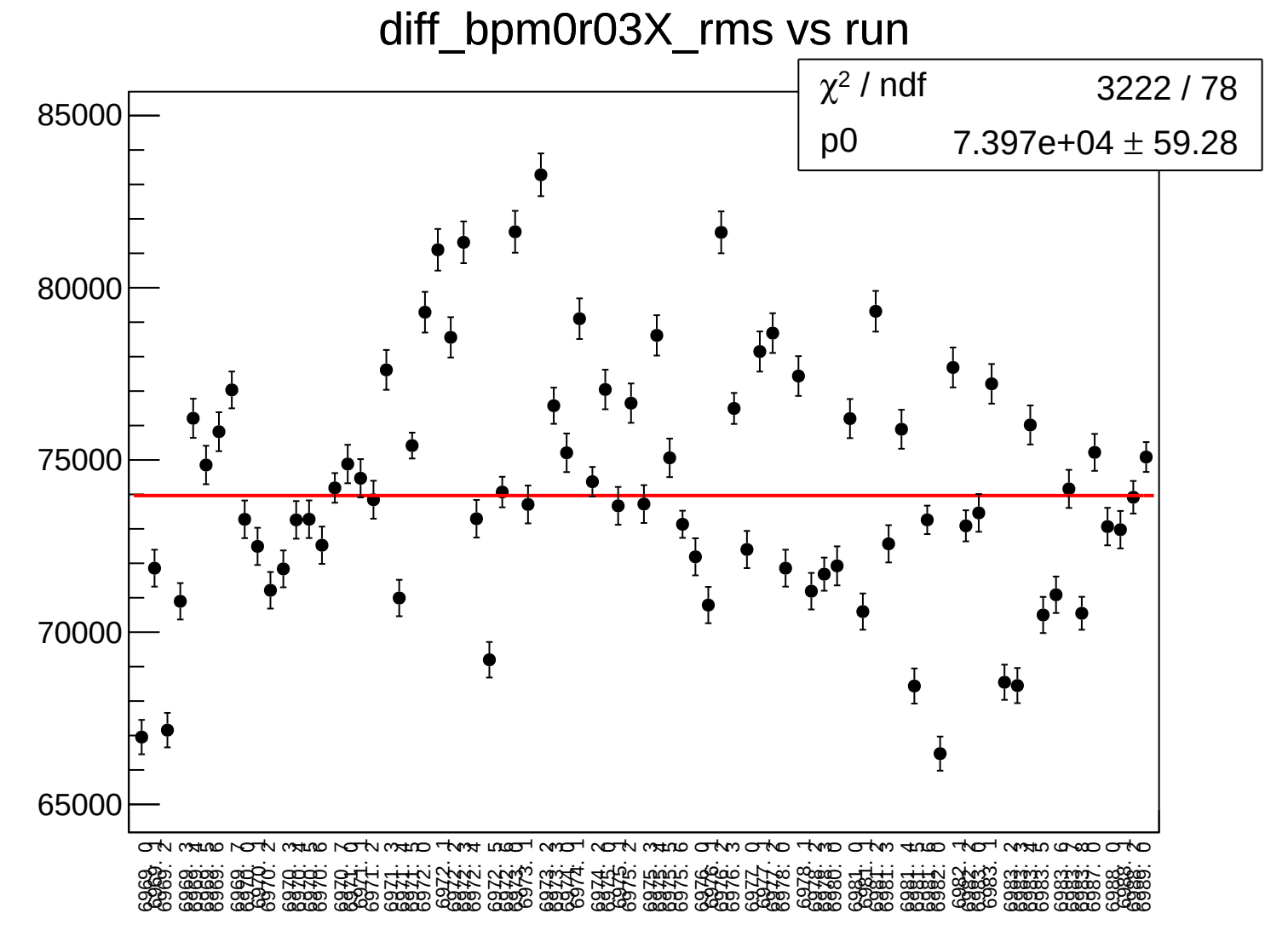

diff_bpm0l10Y_mean vs run
χ² / ndf 72.47 / 78
p0 2.678 ± 1.869
pull
Entries 79
Mean 364.6
Std Dev 318.3

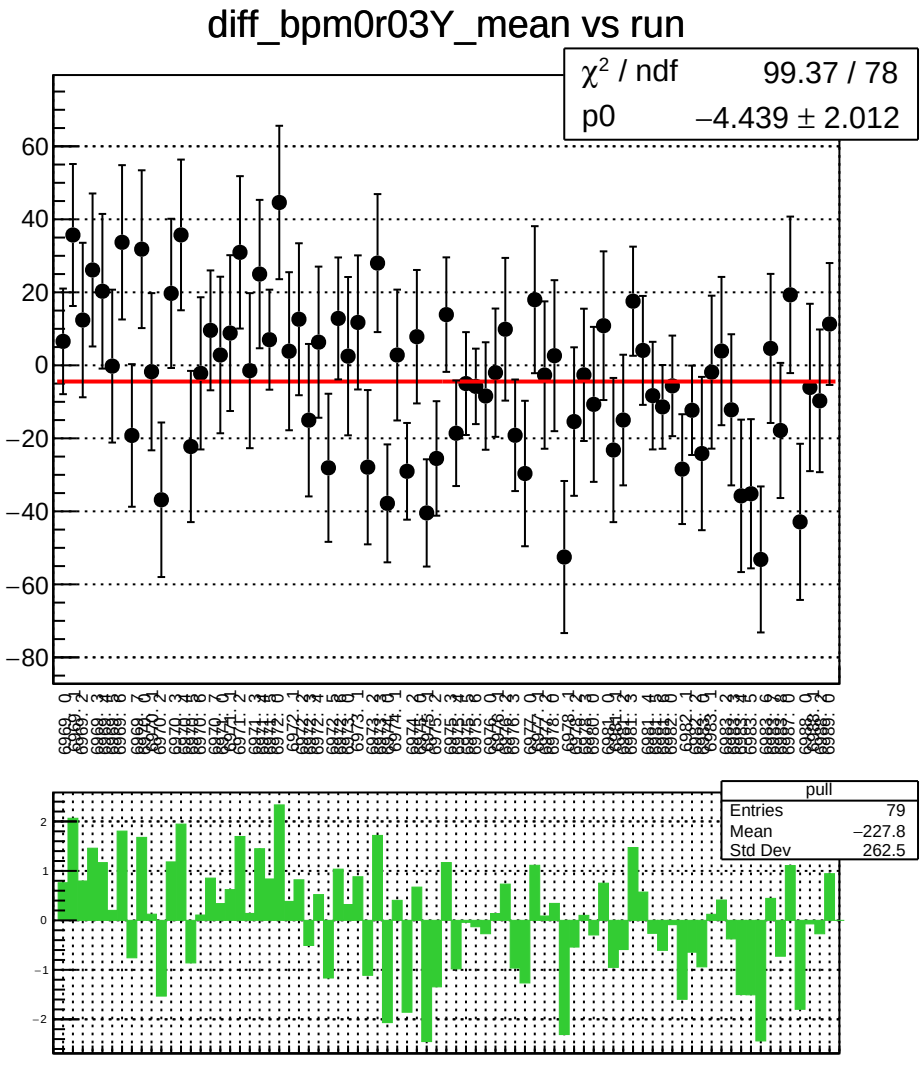

pull1D
Entries 79
Mean −0.01165
Std Dev 0.9577

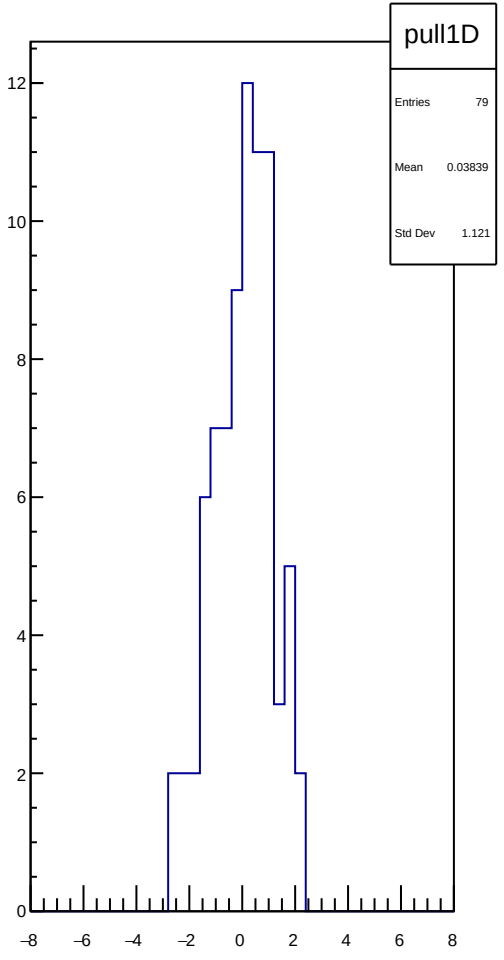

diff_bpm0l10Y_rms vs run
χ² / ndf 4.901e+04 / 78
p0 1625 ± 1.322
2200
2000
1800
1600
1400
1200

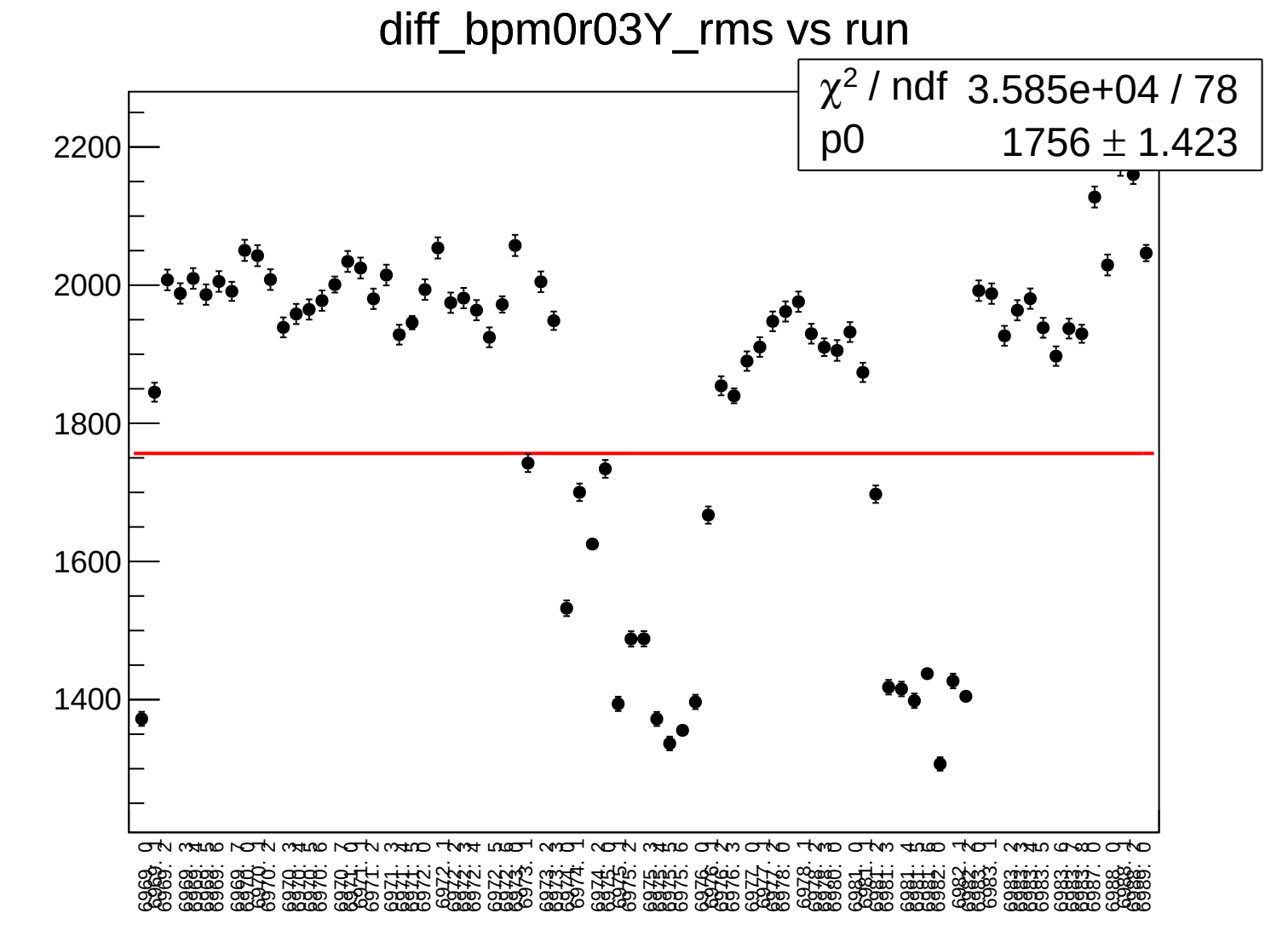

diff_bpm0r03X_mean vs run
χ^2 / ndf 79.15 / 78
p0 103.2 ± 83.84
pull
Entries 79
Mean 200.6
Std Dev 119.2

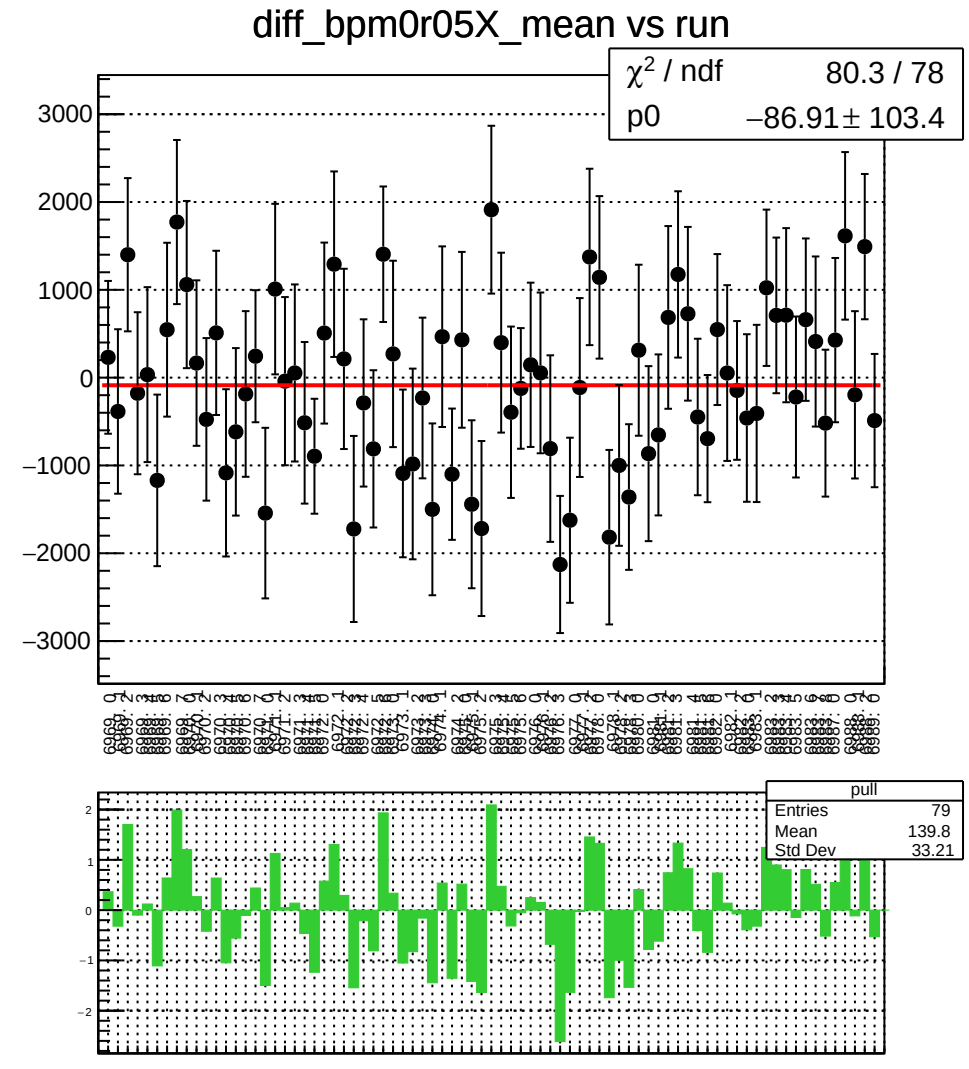

pull1D
Entries 79
Mean −0.01203
Std Dev 1.001

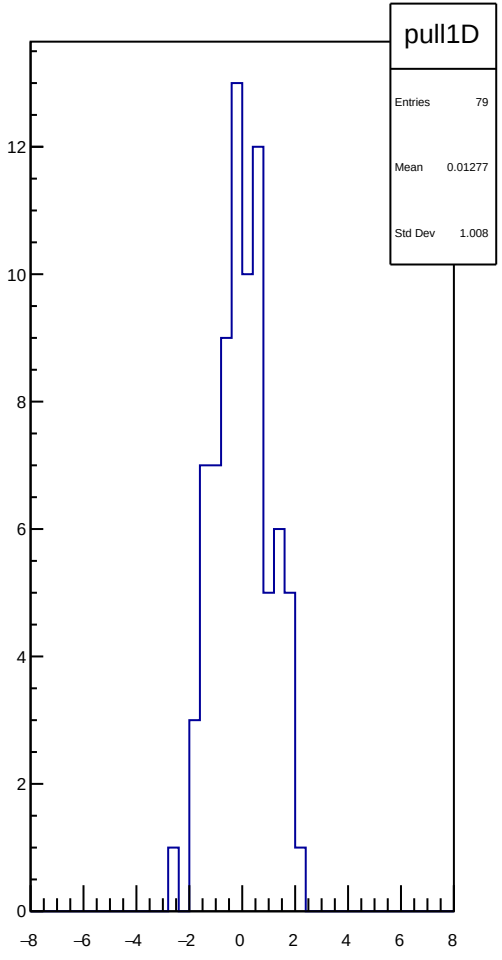

diff_bpm0r03X_rms vs run
χ² / ndf 3222 / 78
p0 7.397e+04 ± 59.28
85000
80000
75000
70000
65000

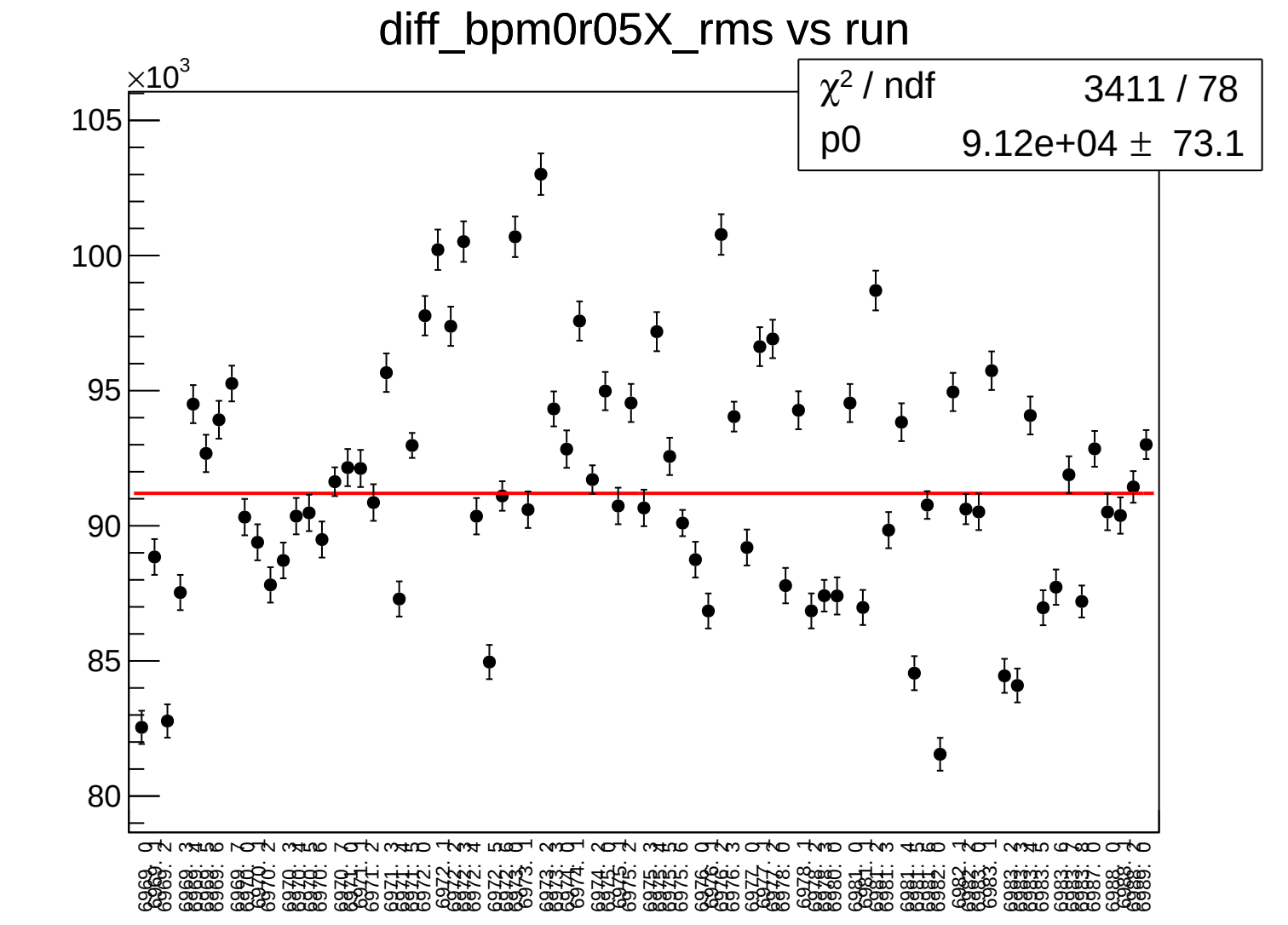

diff_bpm0r03Y_mean vs run
χ² / ndf 99.37 / 78
p0 −4.439 ± 2.012
pull
Entries 79
Mean −227.8
Std Dev 262.5

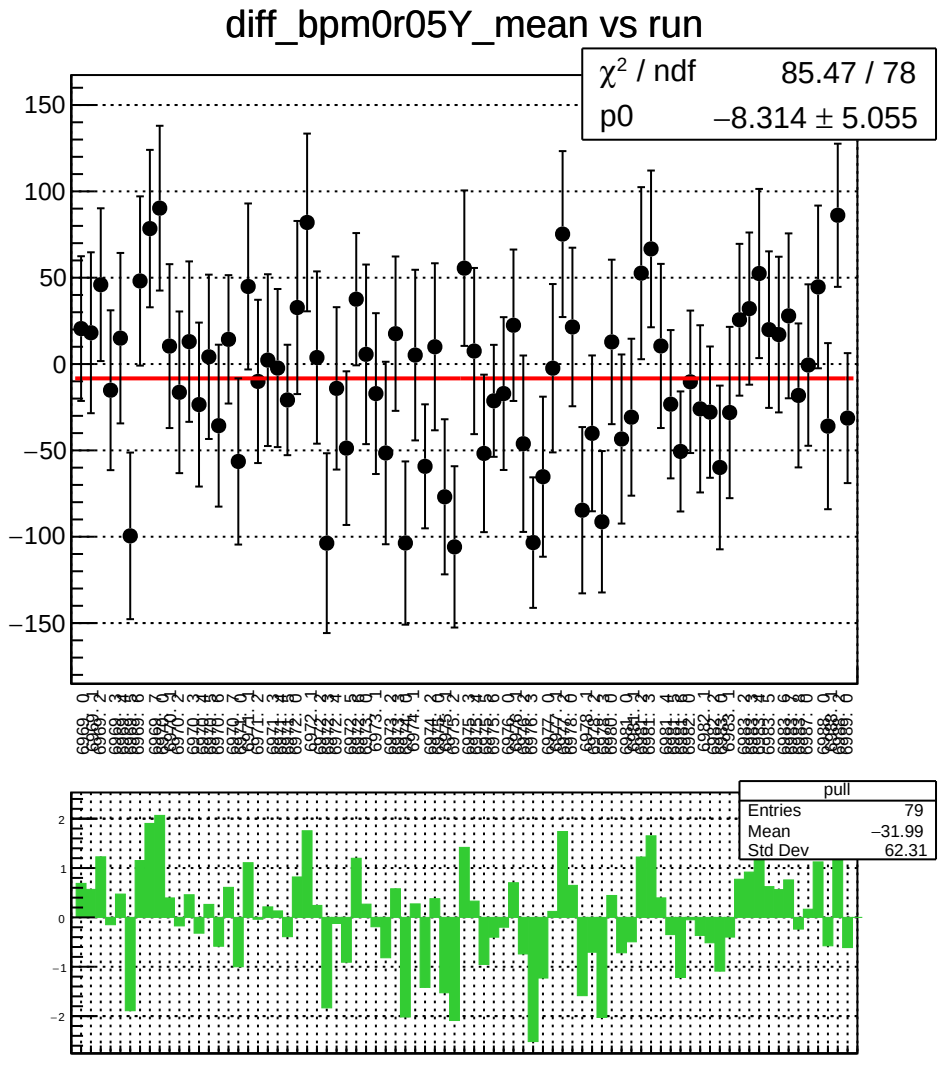

pull1D
Entries 79
Mean 0.03839
Std Dev 1.121

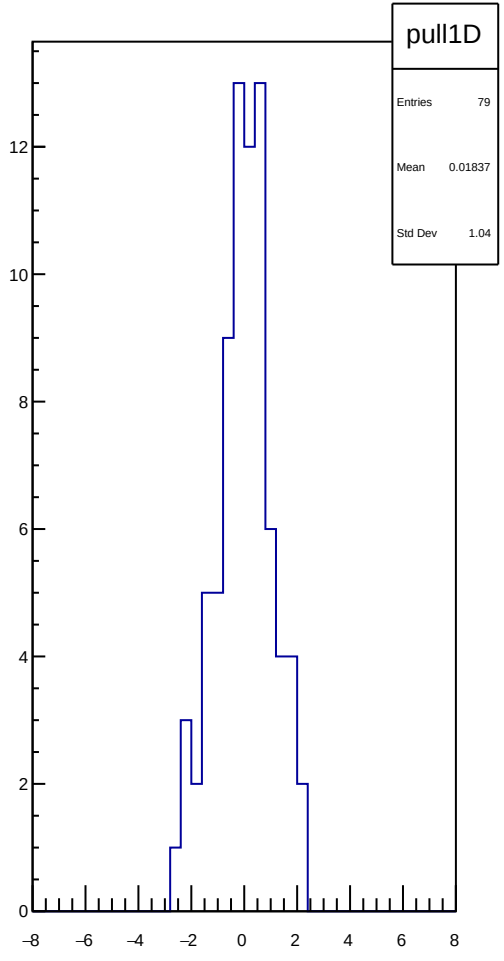

diff_bpm0r03Y_rms vs run
χ² / ndf 3.585e+04 / 78
p0 1756 ± 1.423
2200
2000
1800
1600
1400

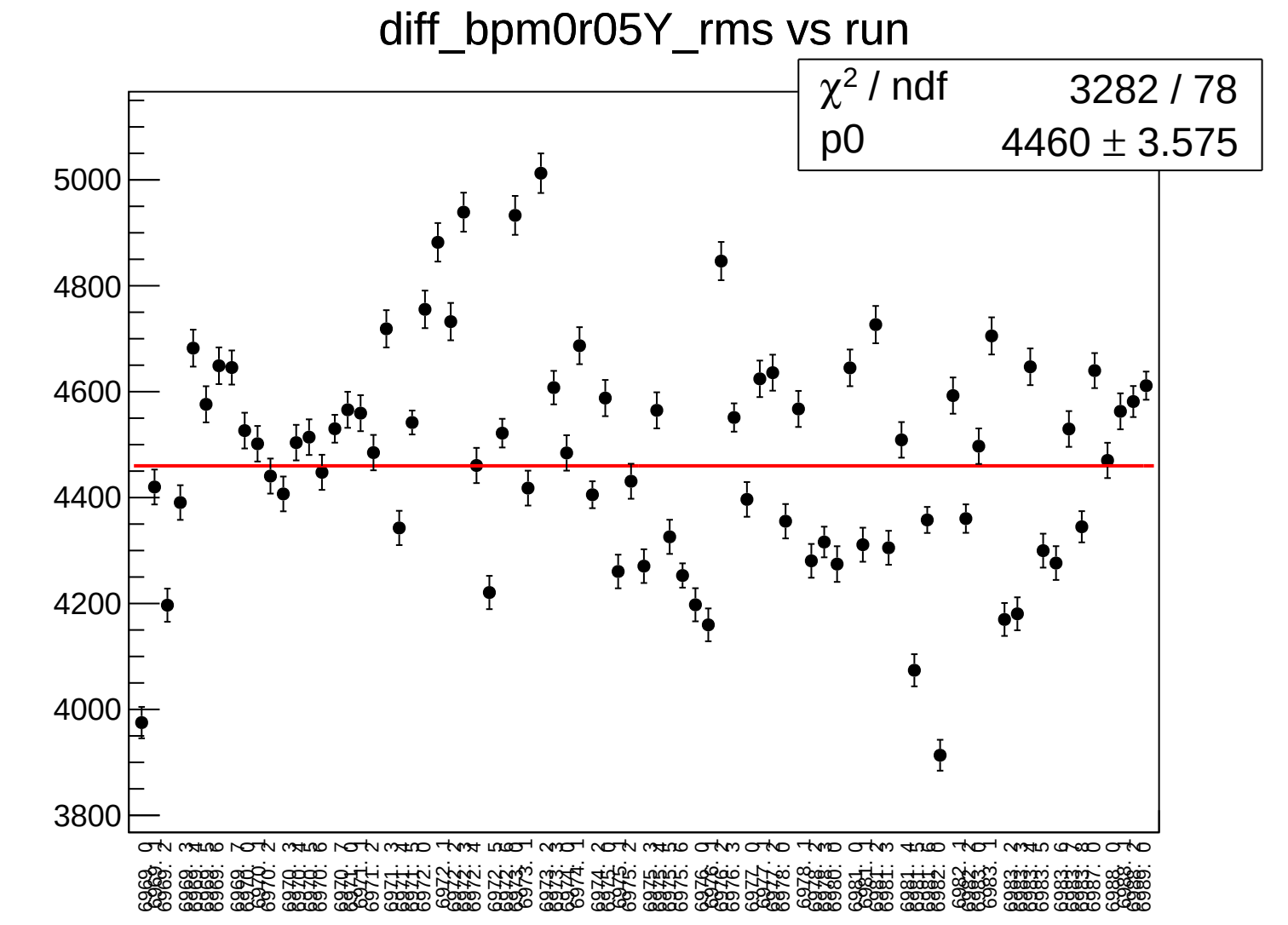

diff_bpm0r05X_mean vs run
χ² / ndf 80.3 / 78
p0 −86.91 ± 103.4
3000
2000
1000
0
−1000
−2000
−3000
pull
Entries 79
Mean 139.8
Std Dev 33.21
2
1
0
−1
−2

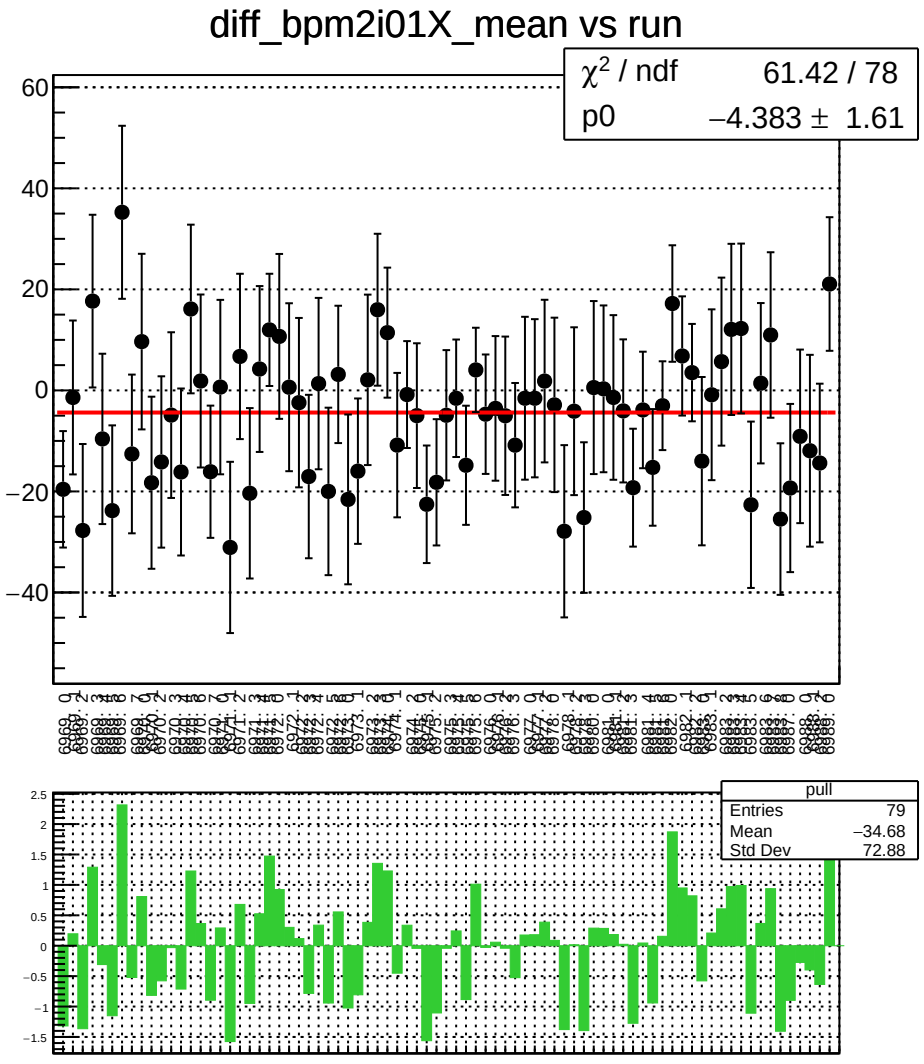

pull1D
Entries 79
Mean 0.01277
Std Dev 1.008
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

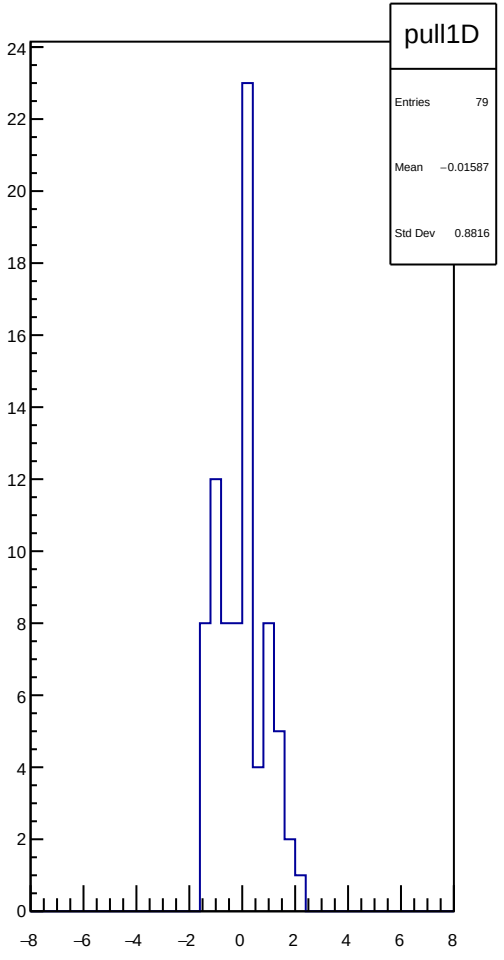

diff_bpm0r05X_rms vs run
×10^3
χ² / ndf 3411 / 78
p0 9.12e+04 ± 73.1
105
100
95
90
85
80

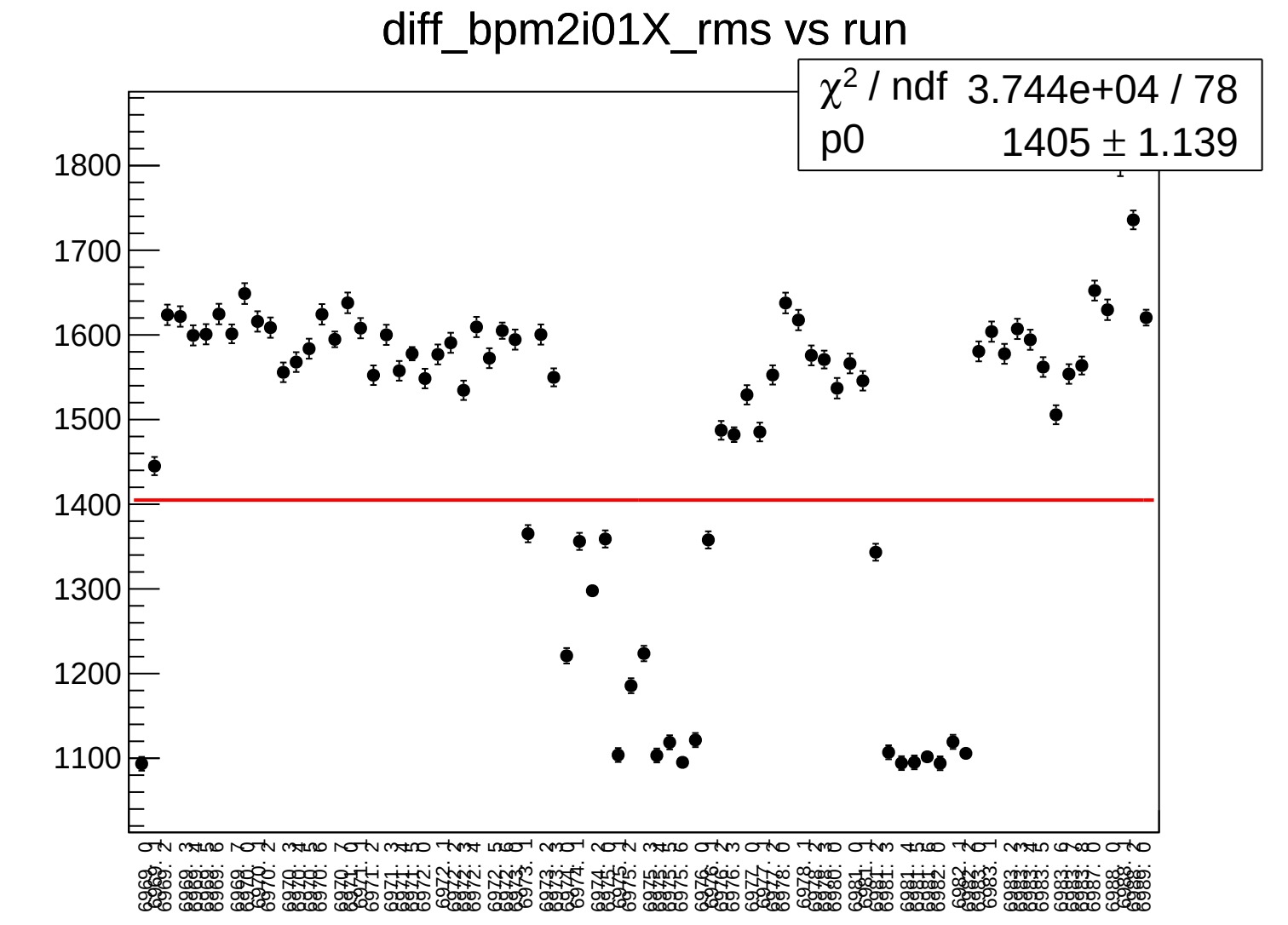

diff_bpm0r05Y_mean vs run
χ² / ndf 85.47 / 78
p0 −8.314 ± 5.055
150
100
50
0
−50
−100
−150
pull
Entries 79
Mean −31.99
Std Dev 62.31
2
1
0
−1
−2

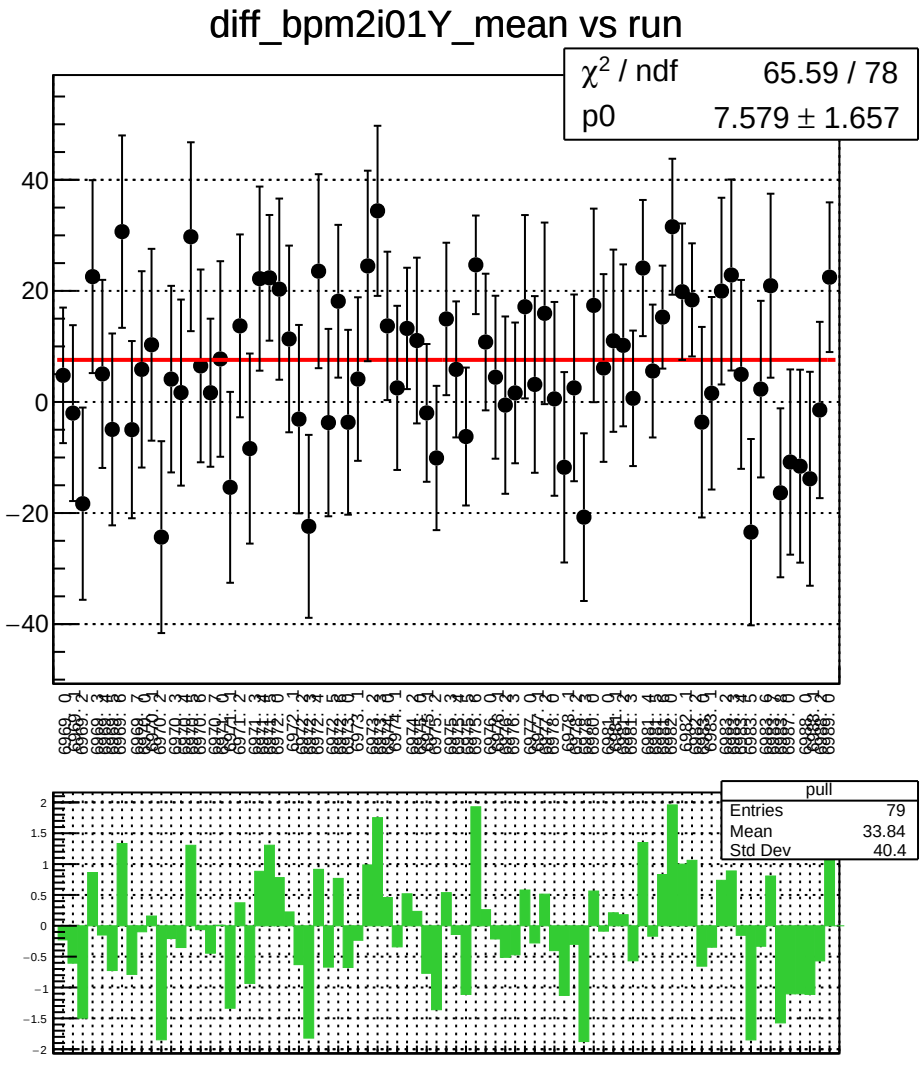

pull1D
Entries 79
Mean 0.01837
Std Dev 1.04
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

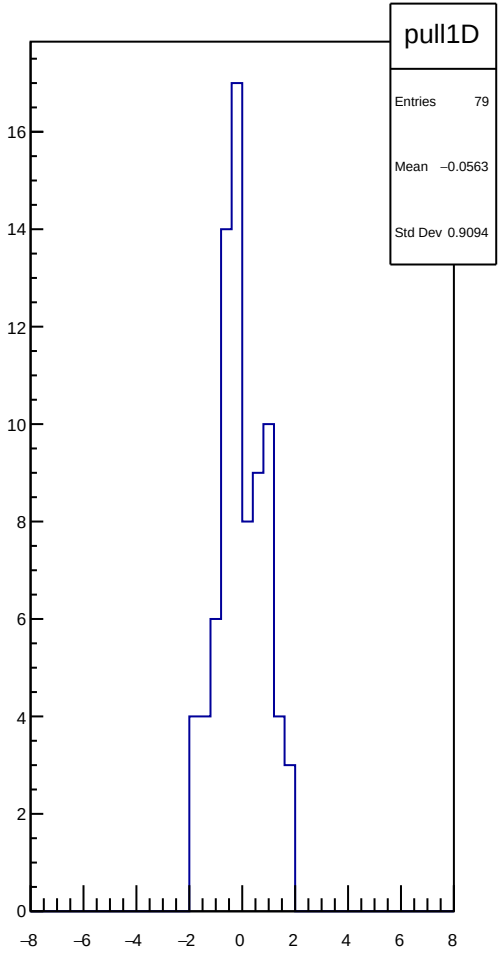

diff_bpm0r05Y_rms vs run
χ² / ndf 3282 / 78
p0 4460 ± 3.575
5000
4800
4600
4400
4200
4000
3800

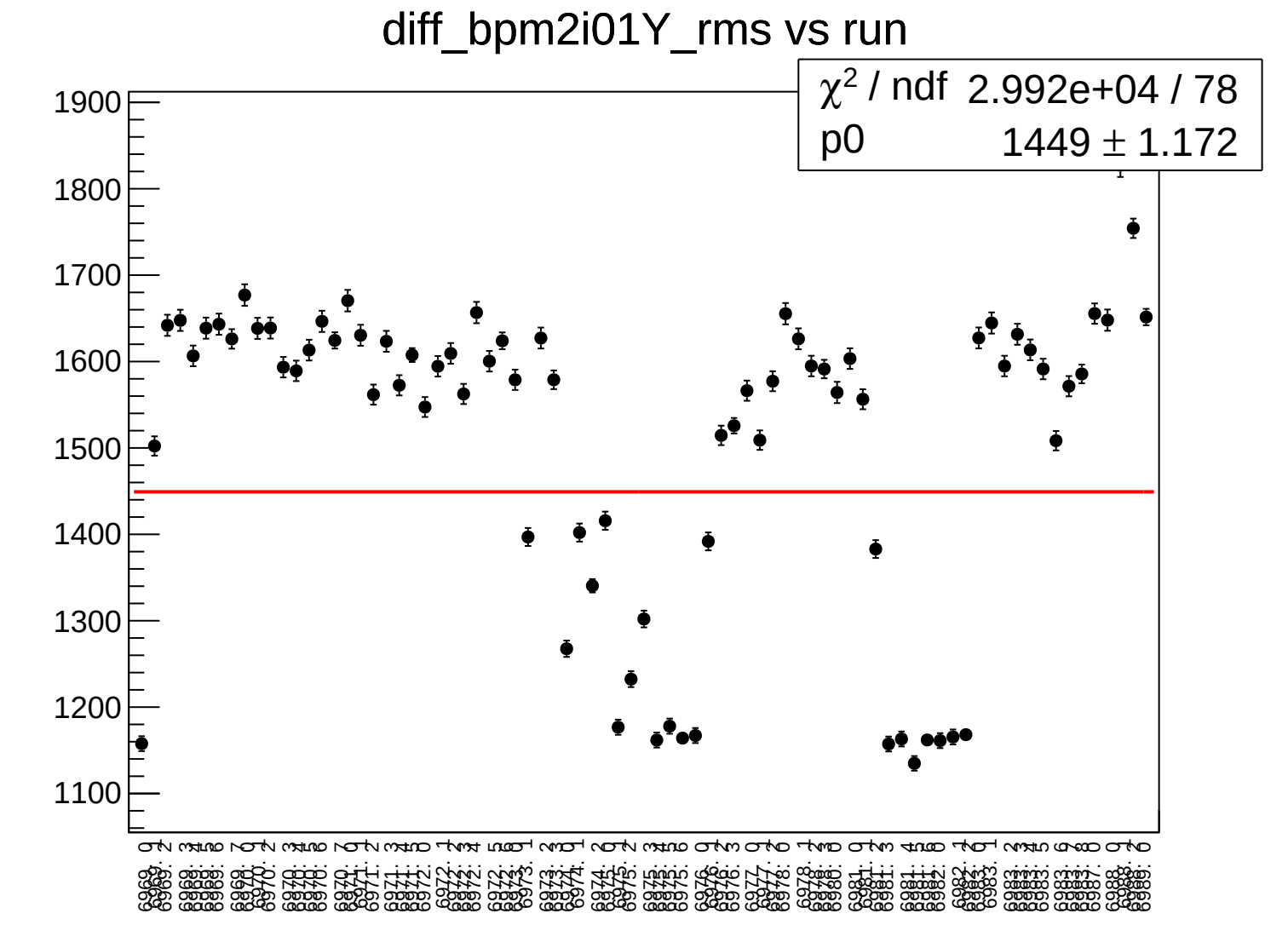

diff_bpm2i01X_mean vs run
χ^2 / ndf 61.42 / 78
p0 −4.383 ± 1.61
pull
Entries 79
Mean −34.68
Std Dev 72.88

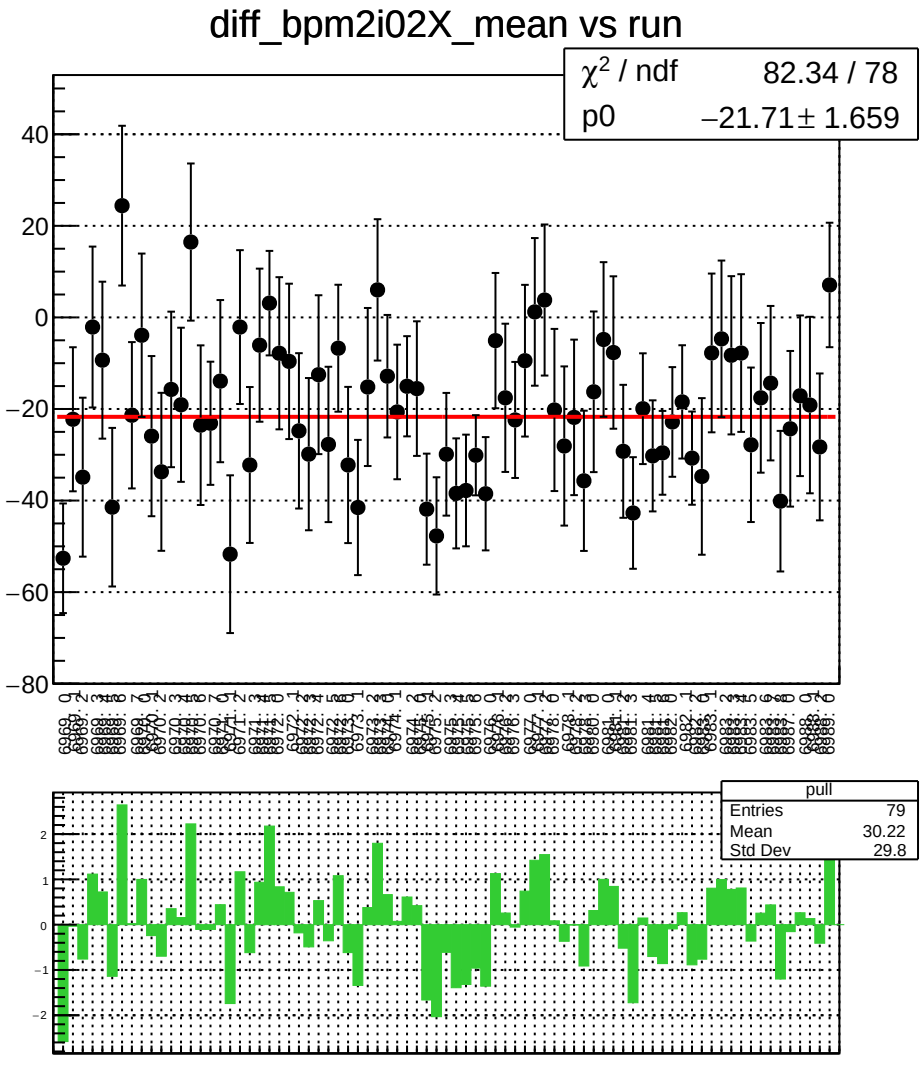

pull1D
Entries 79
Mean −0.01587
Std Dev 0.8816

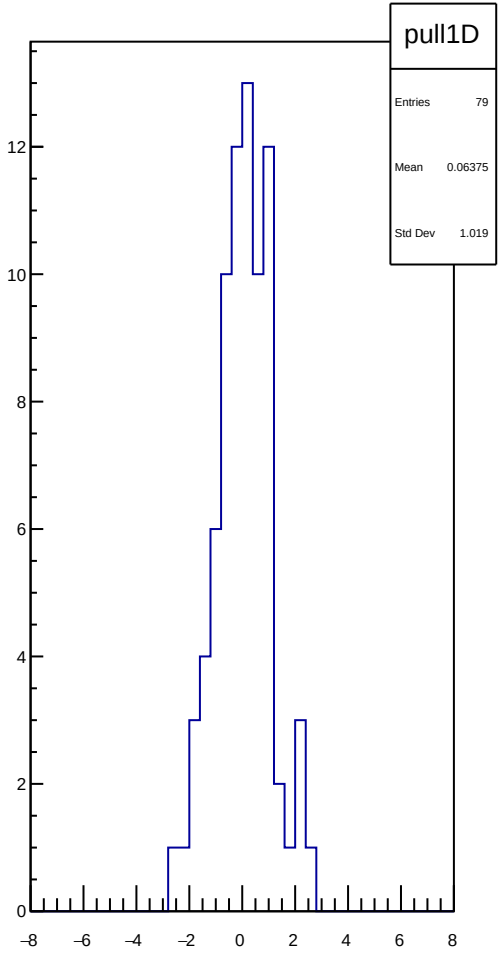

diff_bpm2i01X_rms vs run
χ² / ndf 3.744e+04 / 78
p0 1405 ± 1.139
1800
1700
1600
1500
1400
1300
1200
1100

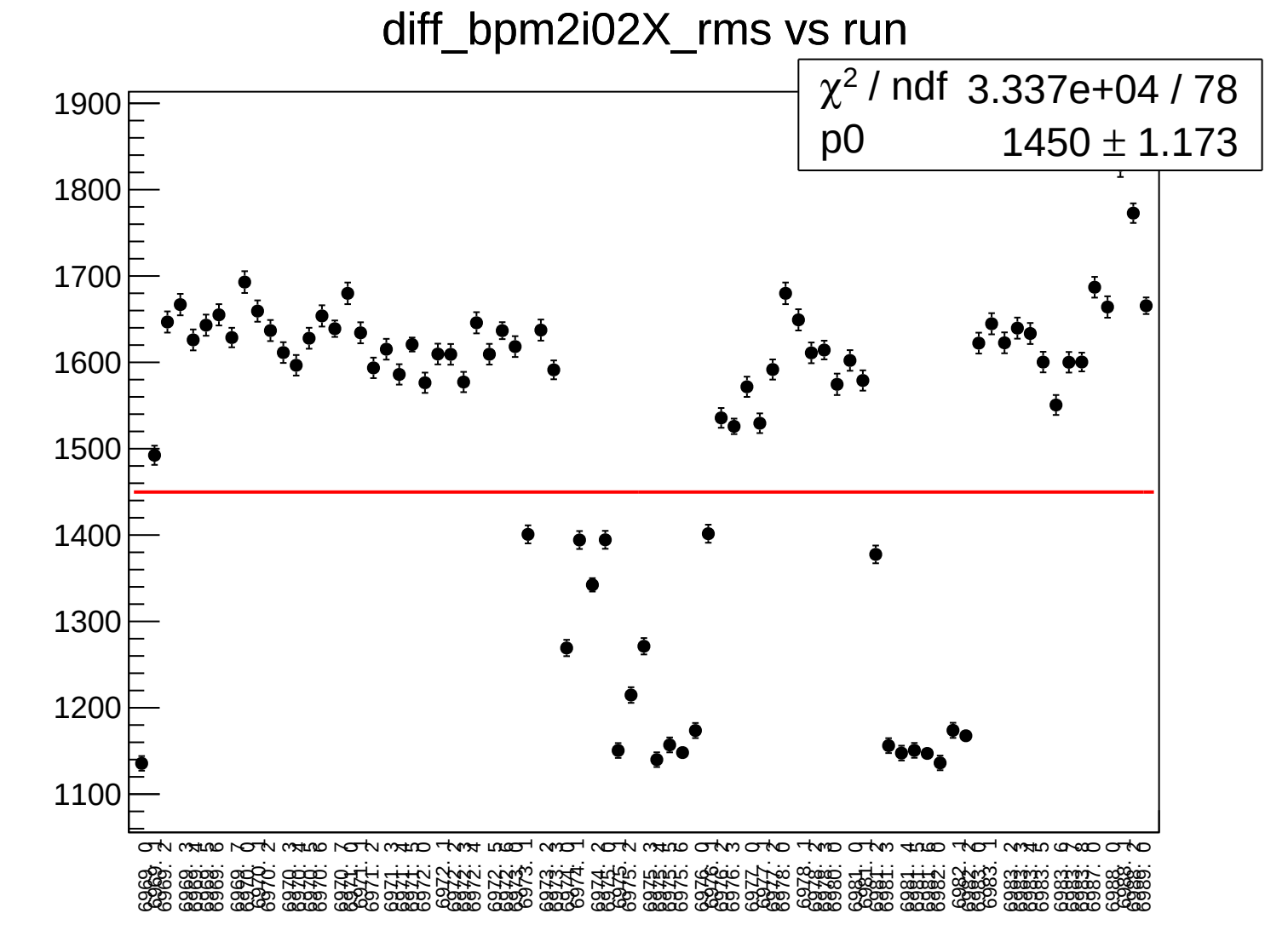

diff_bpm2i01Y_mean vs run
χ² / ndf 65.59 / 78
p0 7.579 ± 1.657
pull
Entries 79
Mean 33.84
Std Dev 40.4

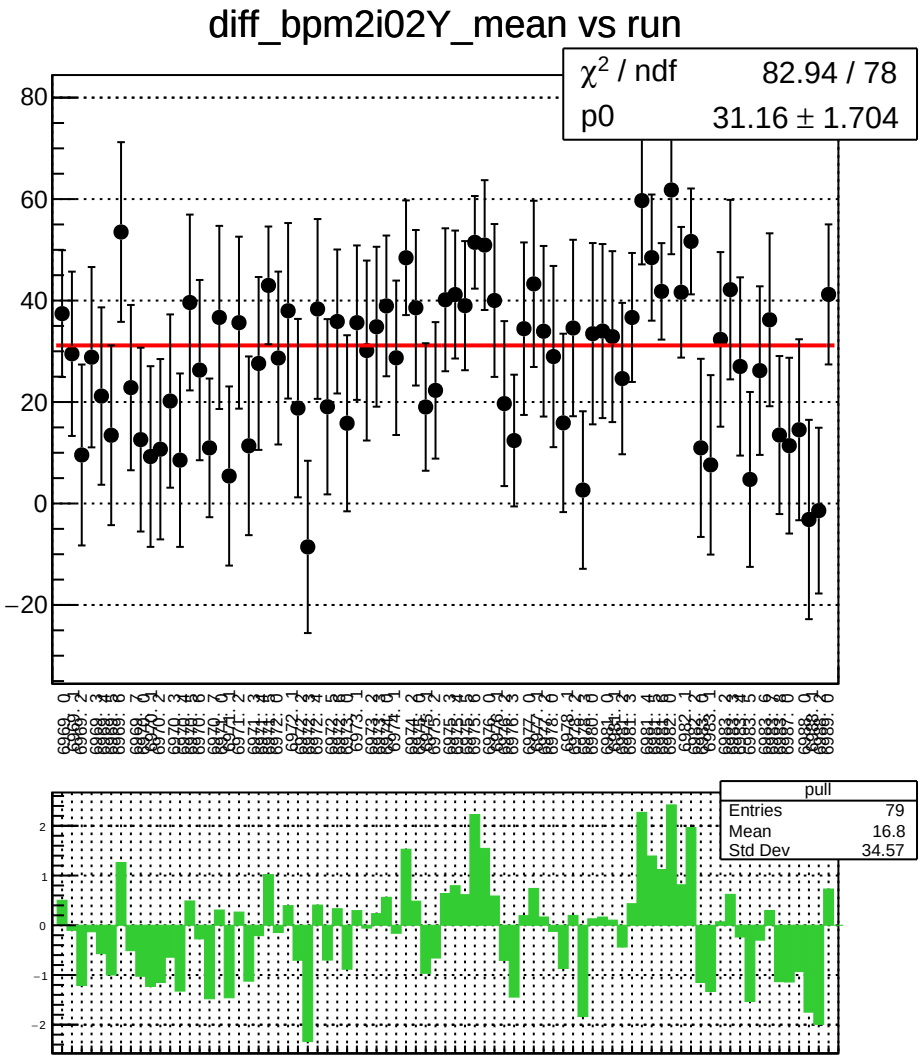

pull1D
Entries 79
Mean −0.0563
Std Dev 0.9094

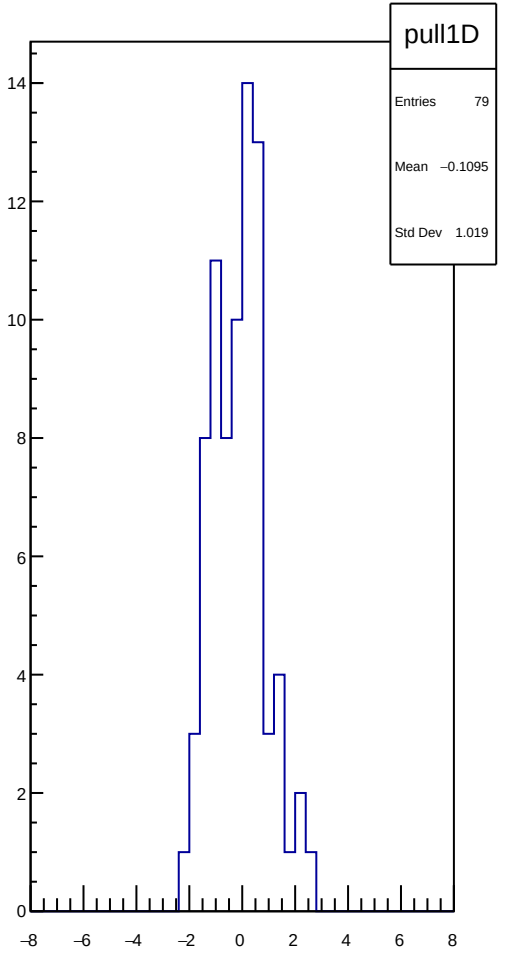

diff_bpm2i01Y_rms vs run
χ² / ndf 2.992e+04 / 78
p0 1449 ± 1.172
1900
1800
1700
1600
1500
1400
1300
1200
1100

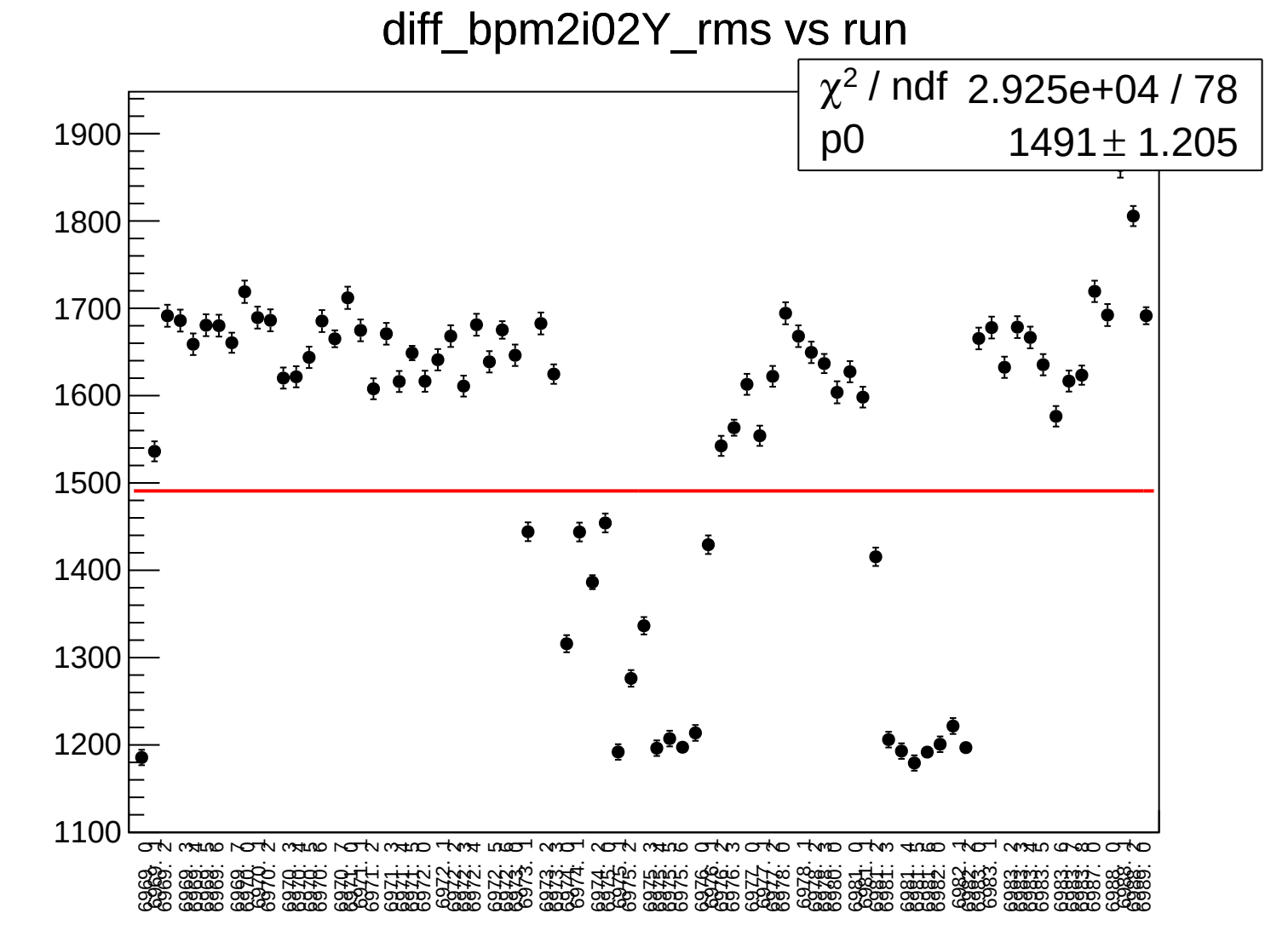

diff_bpm2i02X_mean vs run
χ² / ndf 82.34 / 78
p0 −21.71± 1.659
pull
Entries 79
Mean 30.22
Std Dev 29.8

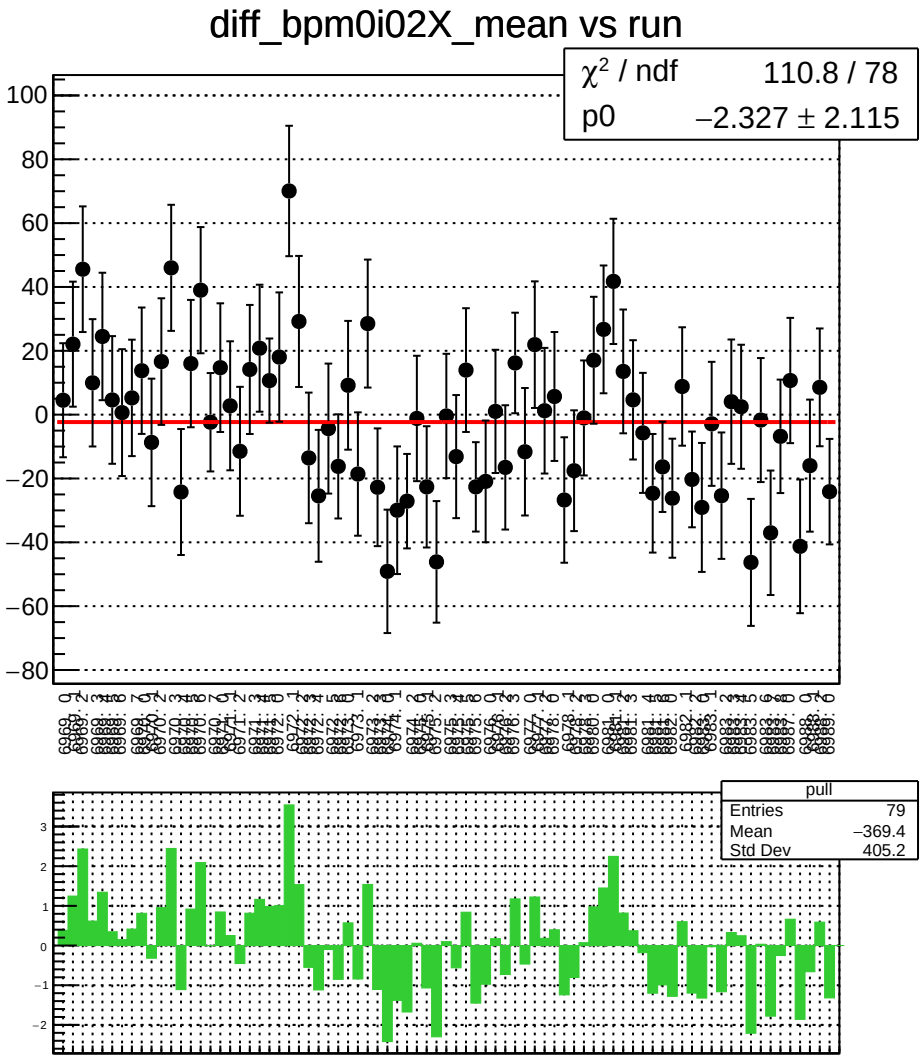

pull1D
Entries 79
Mean 0.06375
Std Dev 1.019

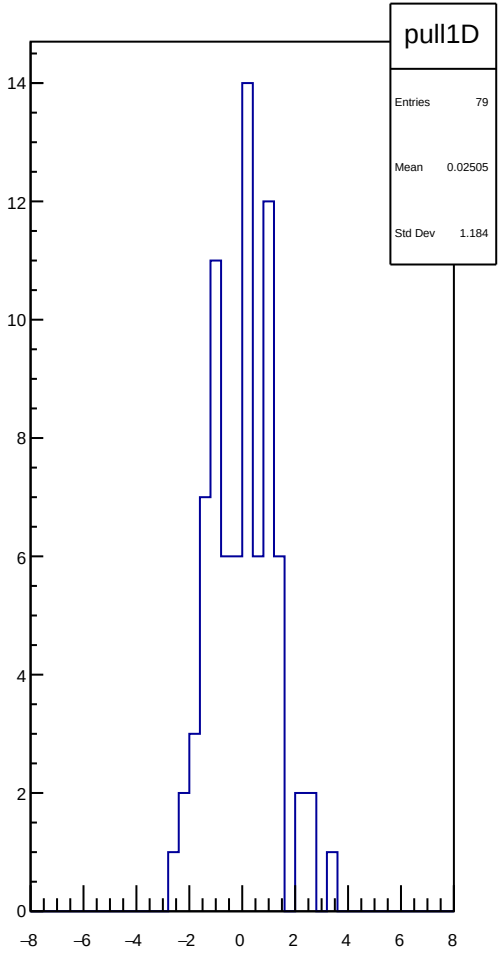

diff_bpm2i02X_rms vs run
χ² / ndf 3.337e+04 / 78
p0 1450 ± 1.173
1900
1800
1700
1600
1500
1400
1300
1200
1100

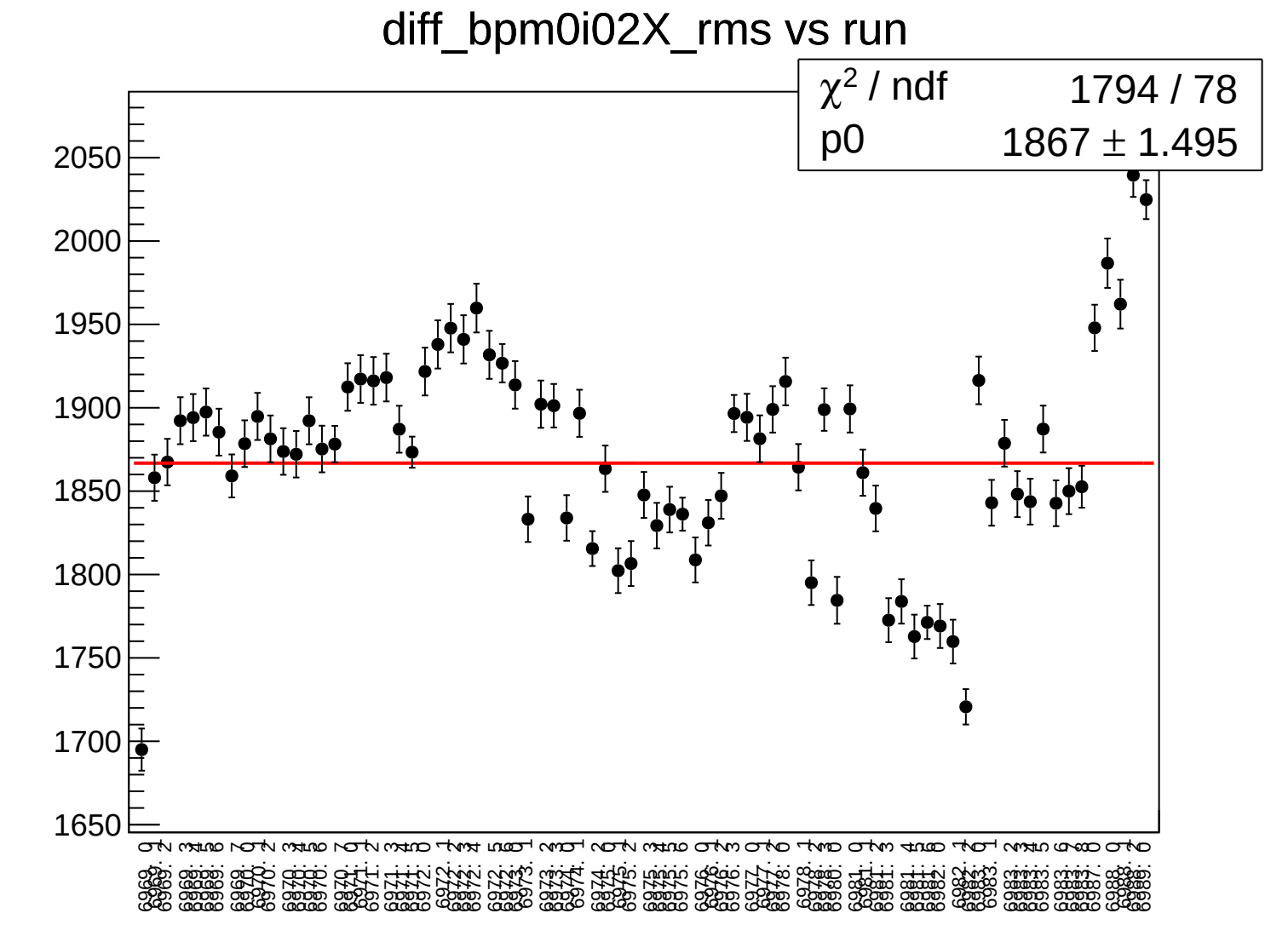

diff_bpm2i02Y_mean vs run
χ² / ndf 82.94 / 78
p0 31.16 ± 1.704
pull
Entries 79
Mean 16.8
Std Dev 34.57

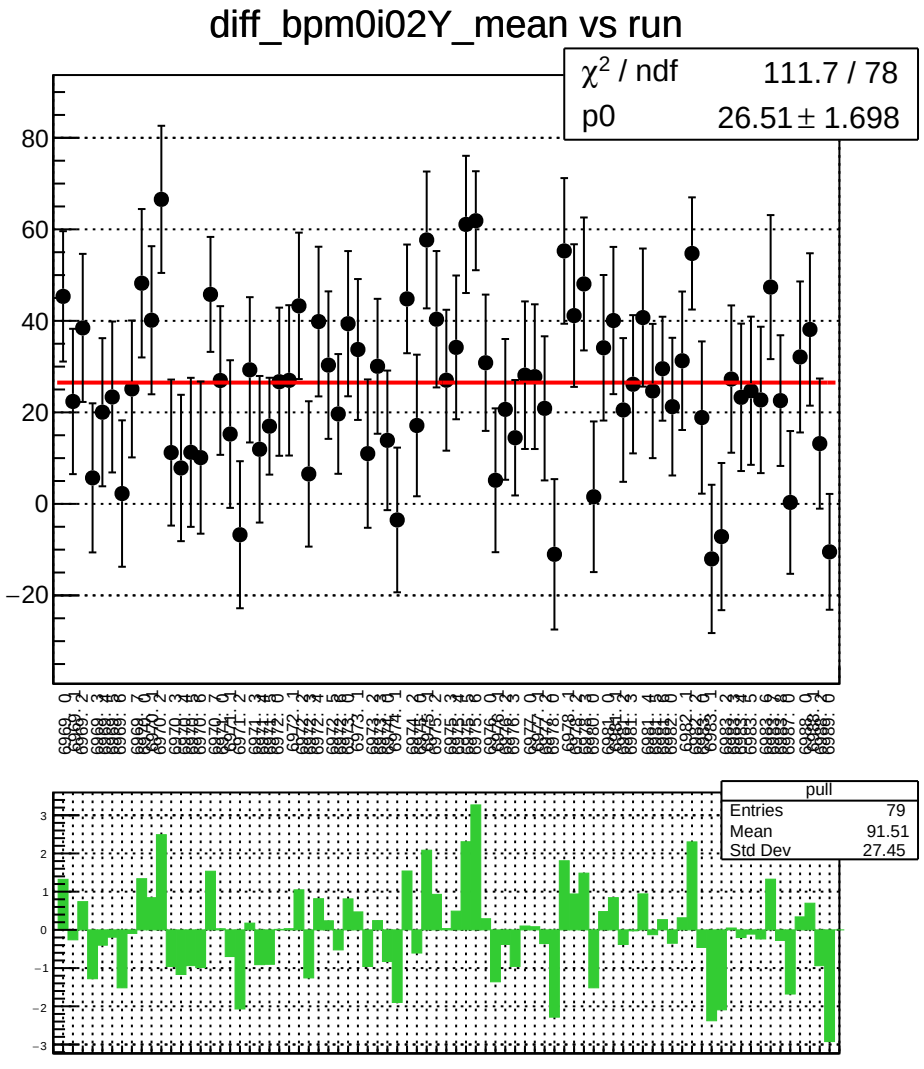

pull1D
Entries 79
Mean −0.1095
Std Dev 1.019

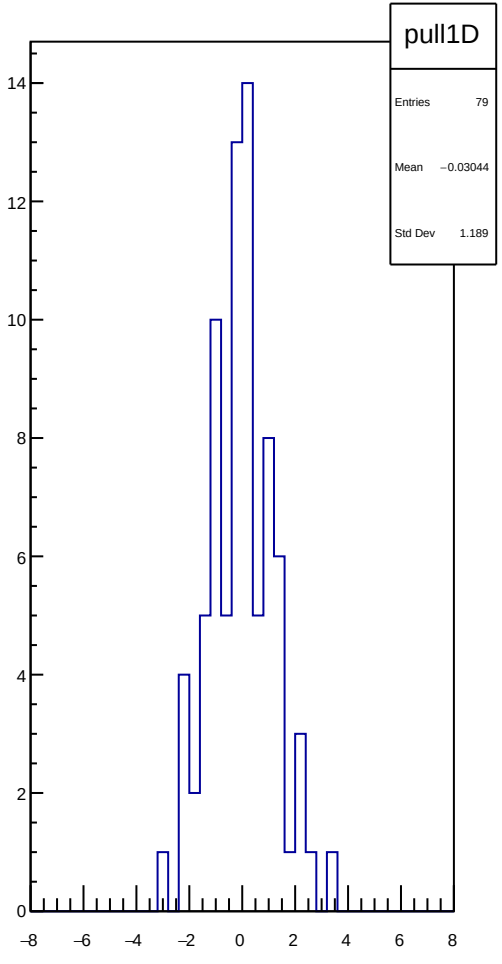

diff_bpm2i02Y_rms vs run
χ² / ndf 2.925e+04 / 78
p0 1491 ± 1.205
1900
1800
1700
1600
1500
1400
1300
1200
1100

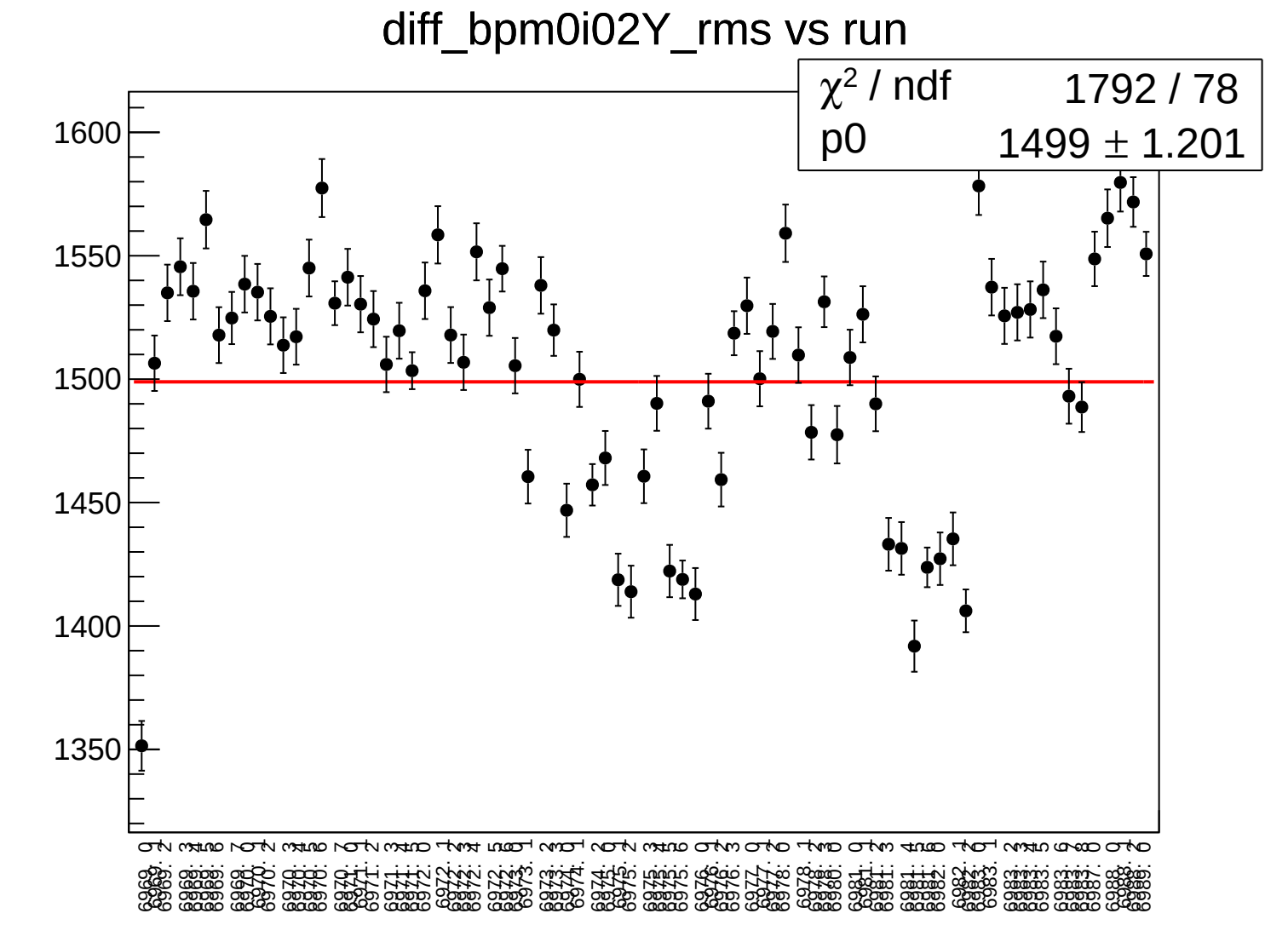

diff_bpm0i02X_mean vs run
χ² / ndf 110.8 / 78
p0 −2.327 ± 2.115
pull
Entries 79
Mean −369.4
Std Dev 405.2

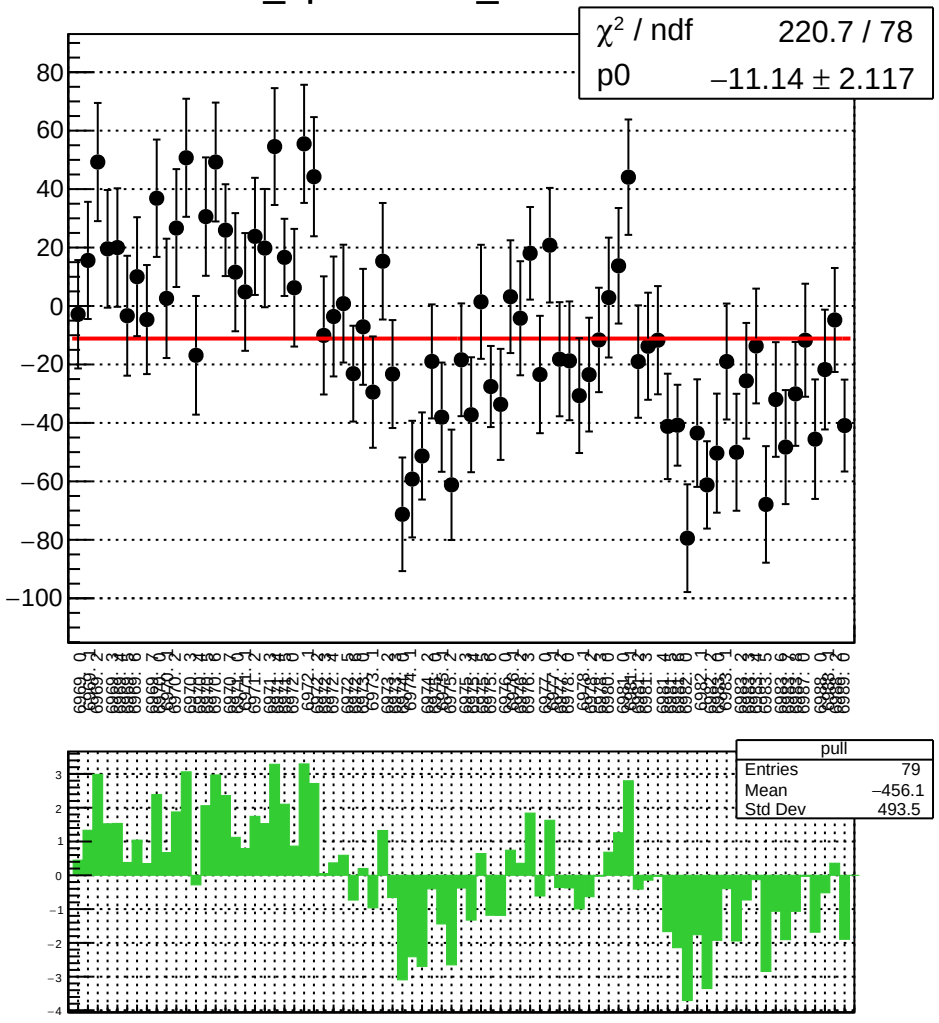

pull1D
Entries 79
Mean 0.02505
Std Dev 1.184

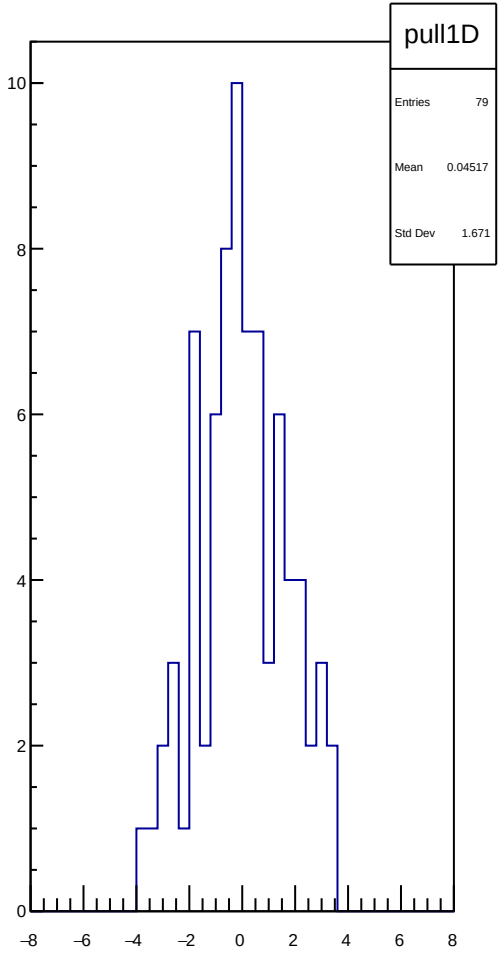

diff_bpm0i02X_rms vs run
χ² / ndf 1794 / 78
p0 1867 ± 1.495
2050
2000
1950
1900
1850
1800
1750
1700
1650

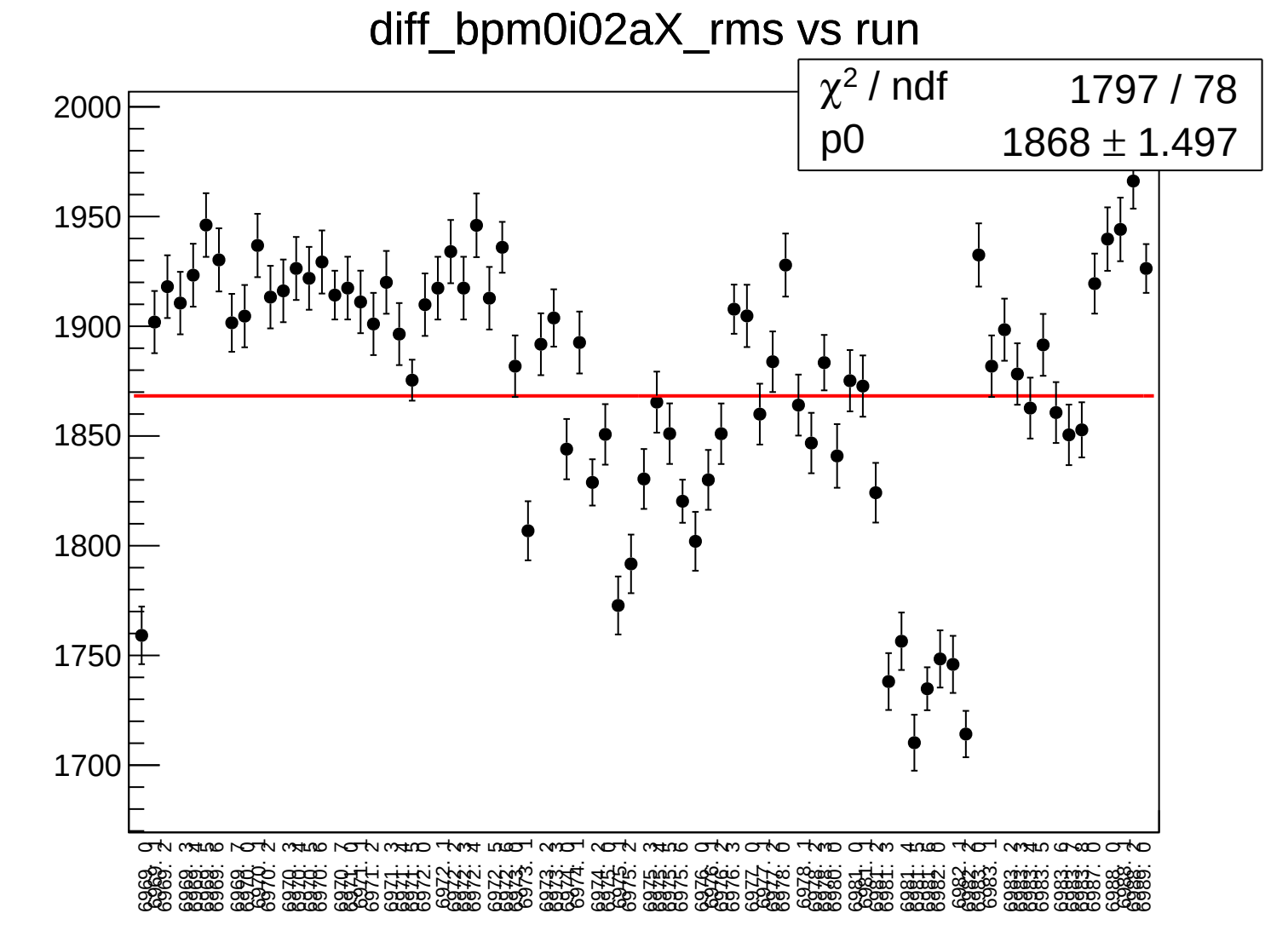

diff_bpm0i02Y_mean vs run
χ^2 / ndf 111.7 / 78
p0 26.51 ± 1.698
pull
Entries 79
Mean 91.51
Std Dev 27.45

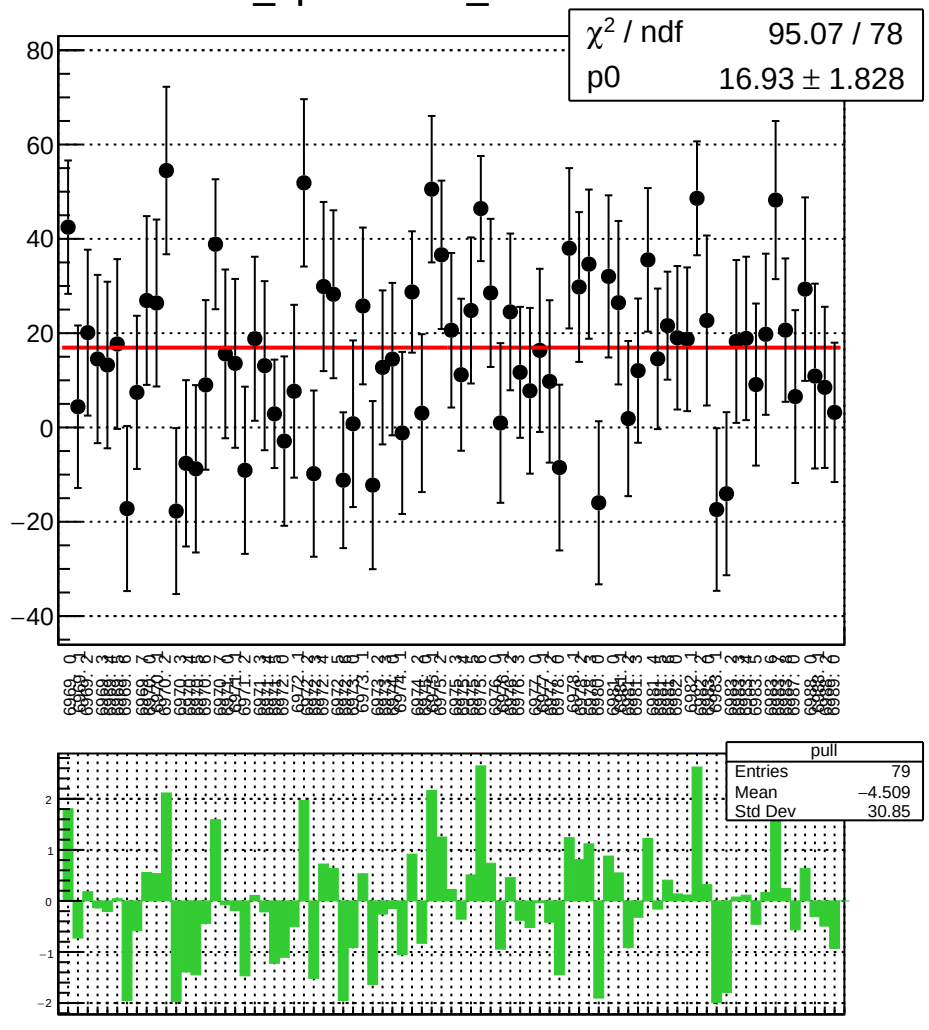

pull1D
Entries 79
Mean −0.03044
Std Dev 1.189

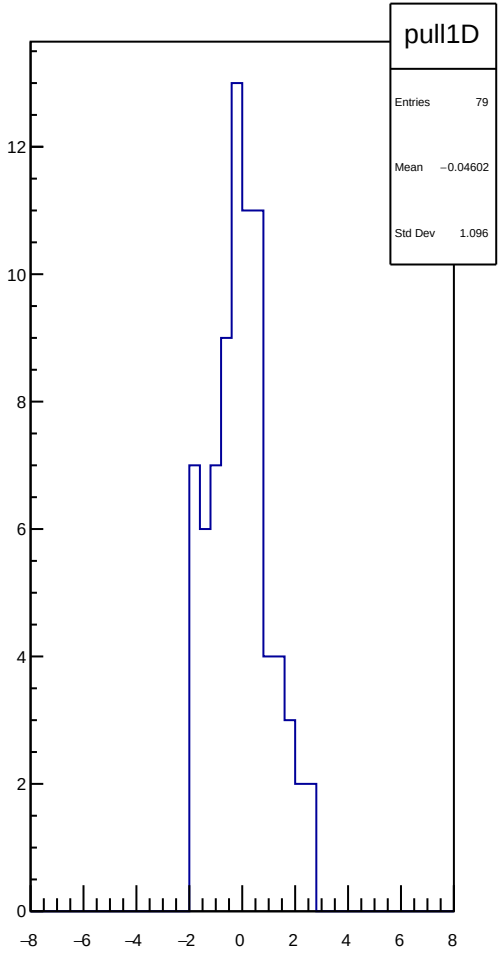

diff_bpm0i02Y_rms vs run
χ² / ndf 1792 / 78
p0 1499 ± 1.201
1600
1550
1500
1450
1400
1350

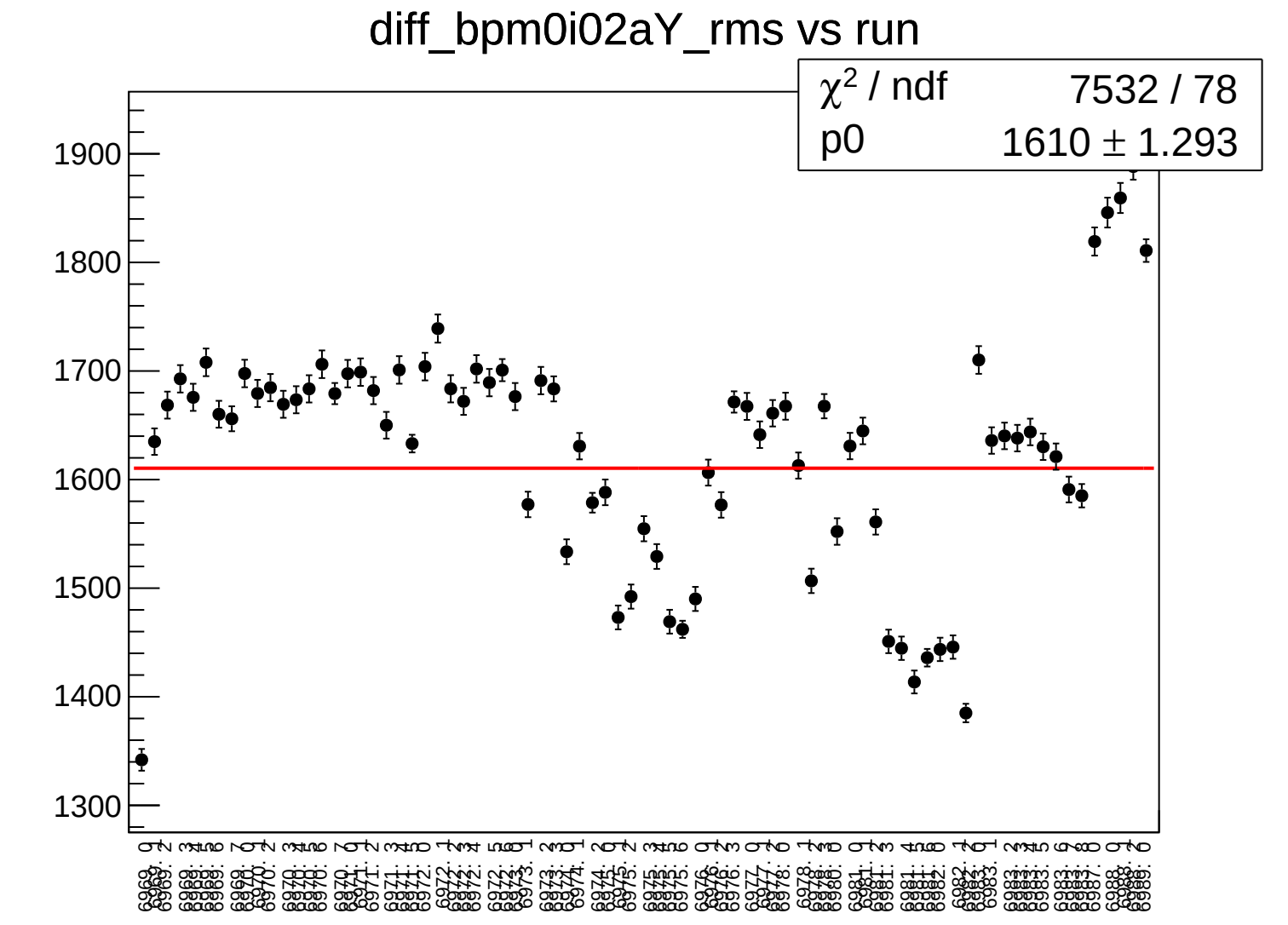

diff_bpm0i02aX_mean vs run
χ² / ndf 220.7 / 78
p0 −11.14 ± 2.117
pull
Entries 79
Mean −456.1
Std Dev 493.5

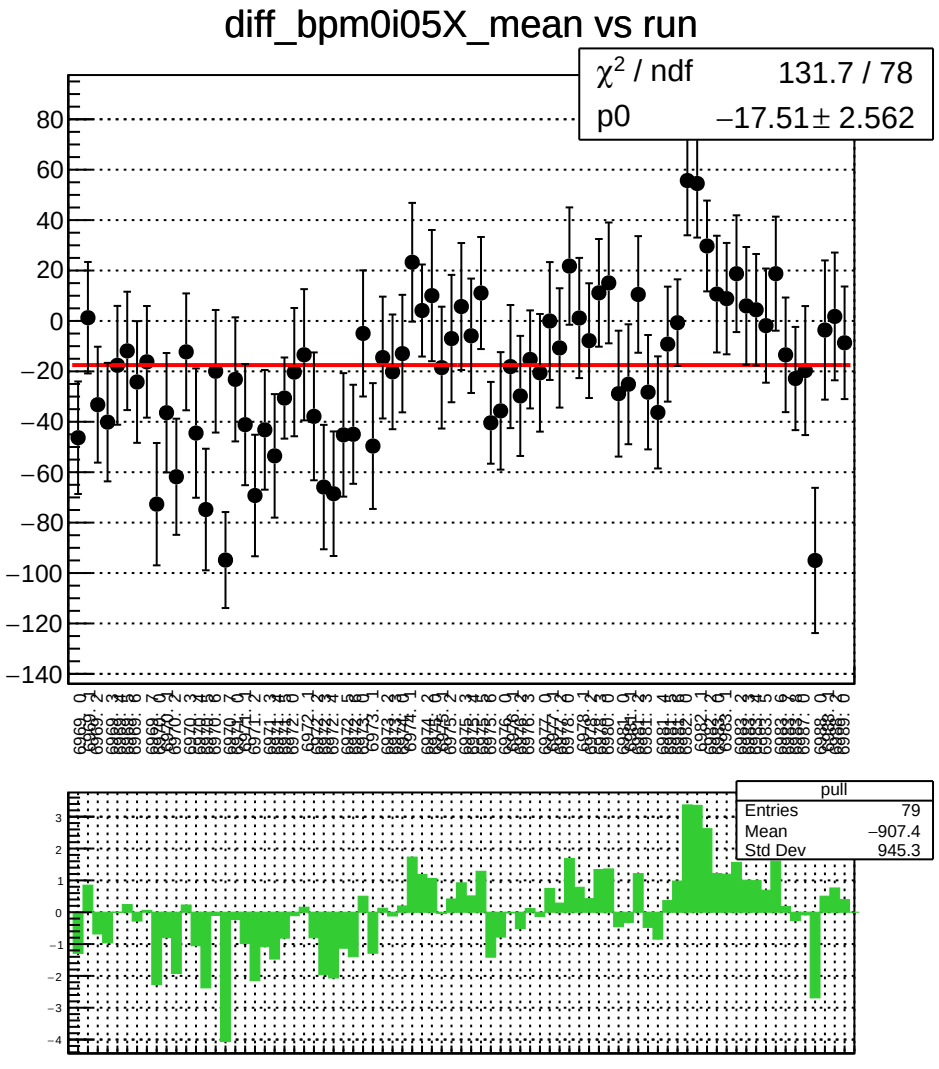

pull1D
Entries 79
Mean 0.04517
Std Dev 1.671

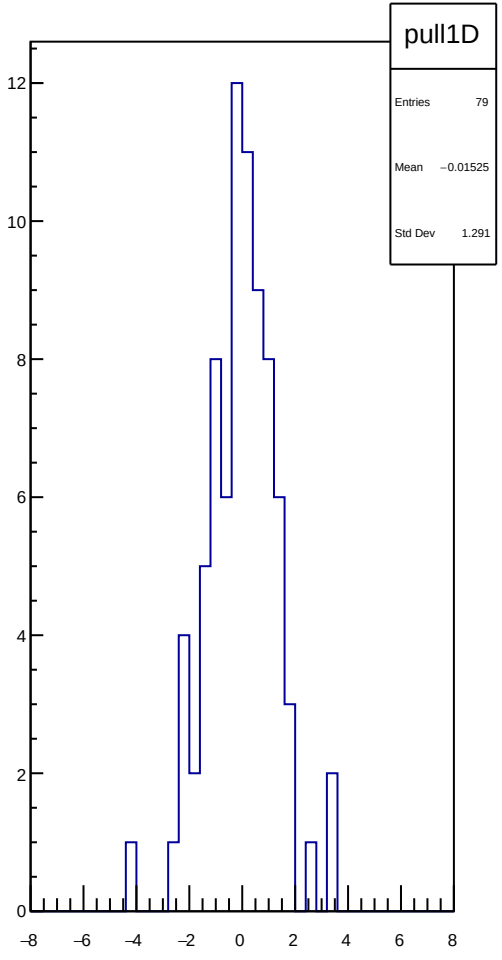

diff_bpm0i02aX_rms vs run
χ² / ndf 1797 / 78
p0 1868 ± 1.497
2000
1950
1900
1850
1800
1750
1700

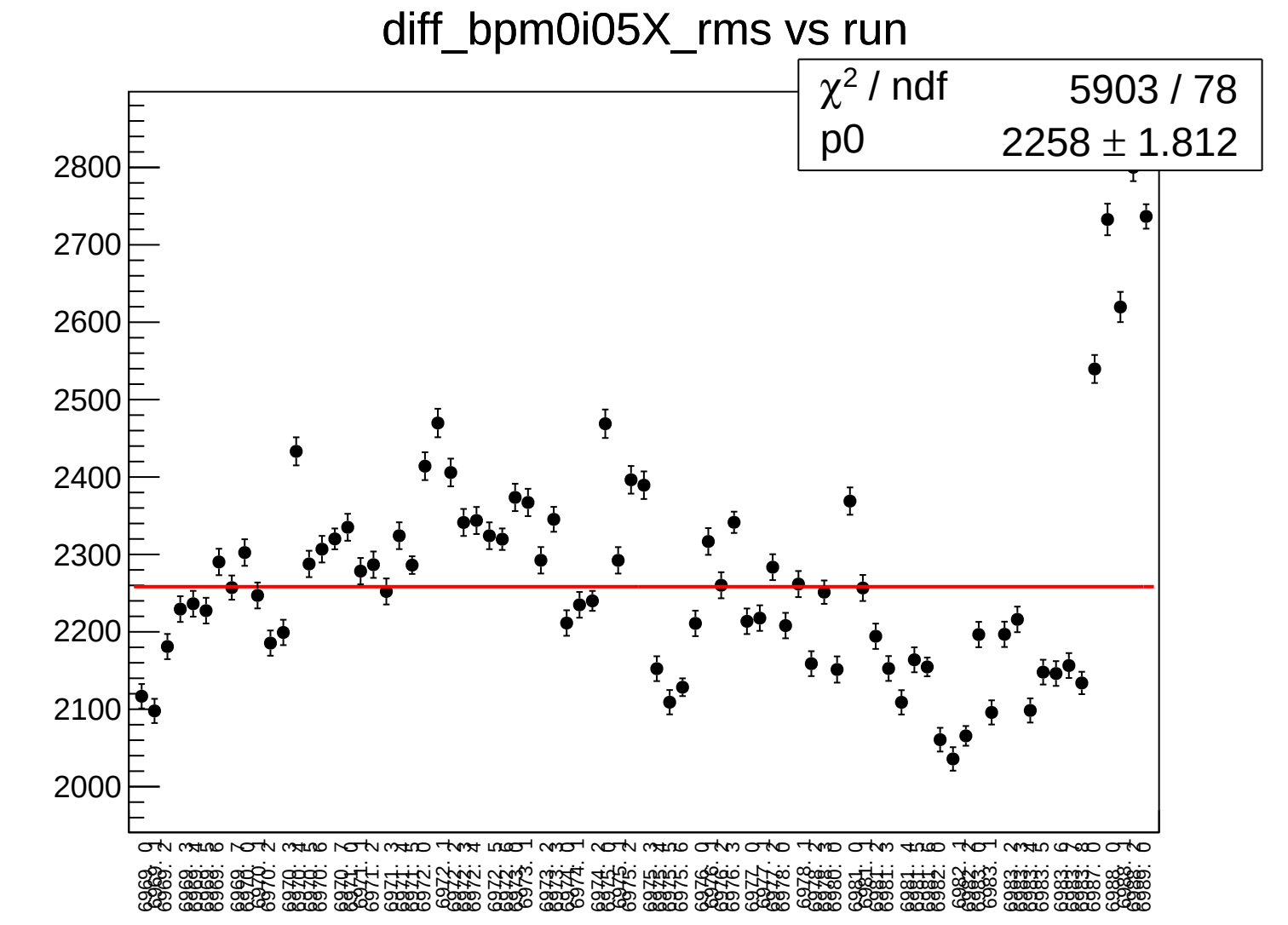

diff_bpm0i02aY_mean vs run
χ² / ndf 95.07 / 78
p0 16.93 ± 1.828
pull
Entries 79
Mean −4.509
Std Dev 30.85

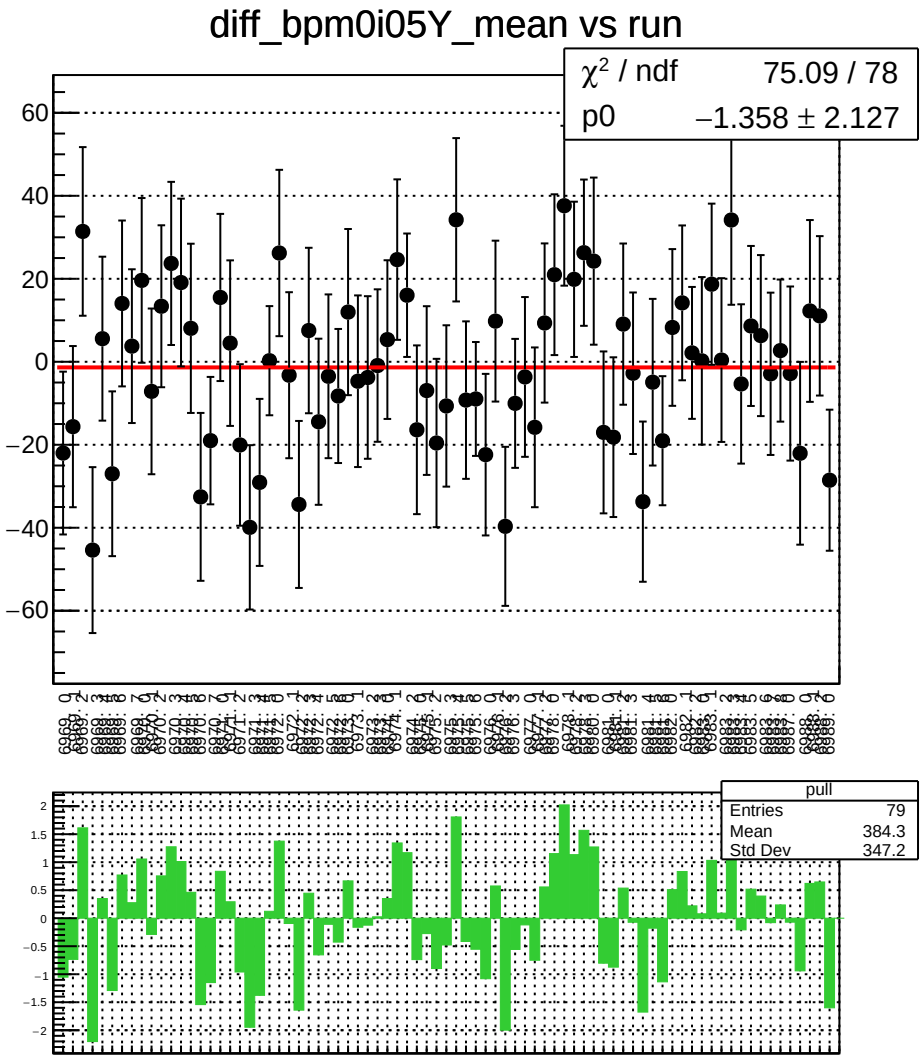

pull1D
Entries 79
Mean −0.04602
Std Dev 1.096

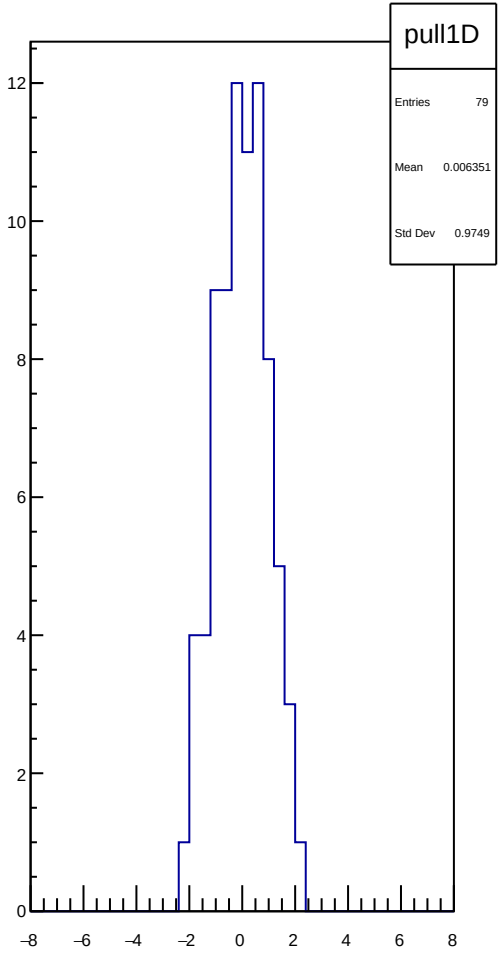

diff_bpm0i02aY_rms vs run
χ² / ndf 7532 / 78
p0 1610 ± 1.293
1900
1800
1700
1600
1500
1400
1300

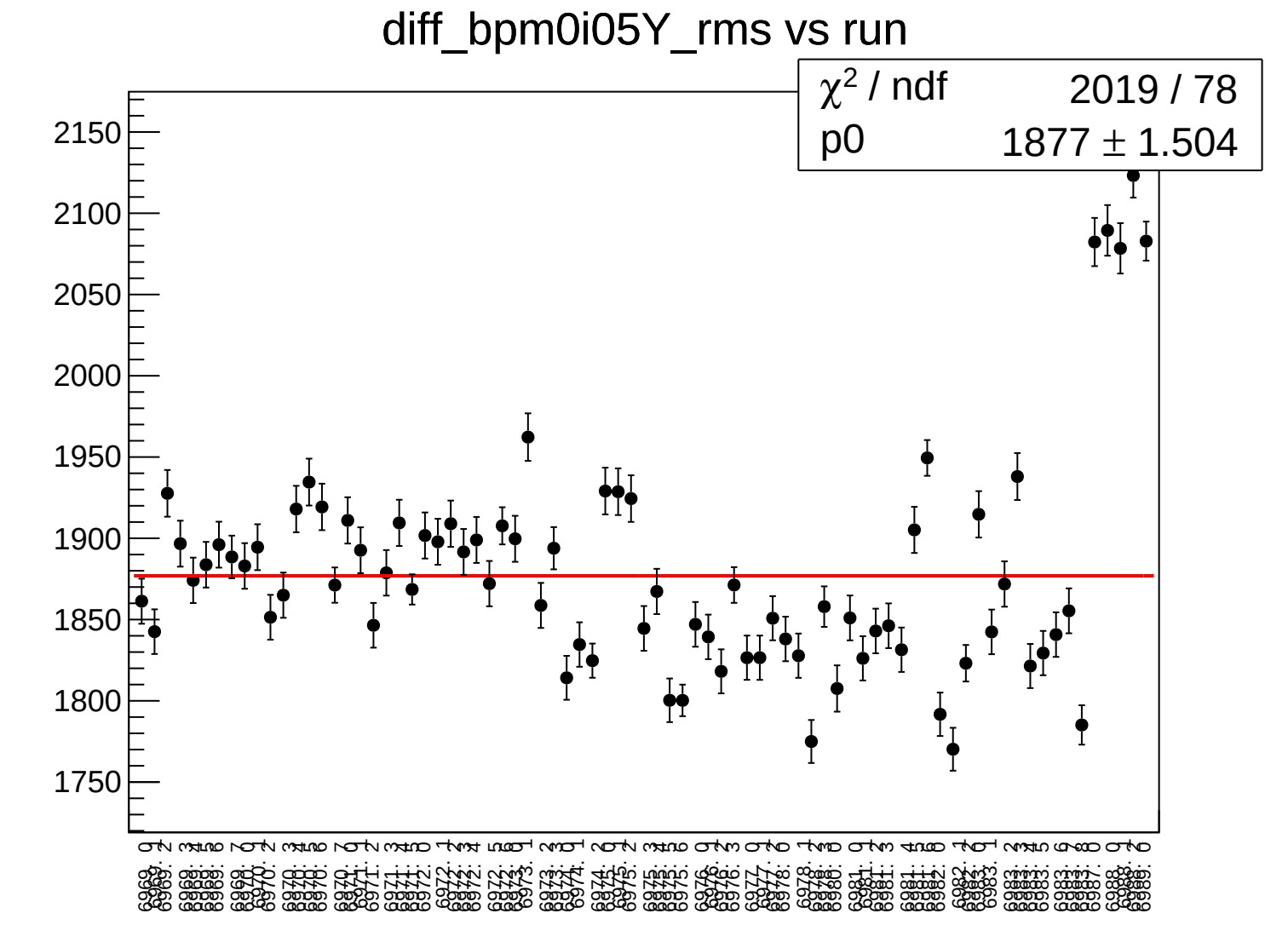

diff_bpm0i05X_mean vs run
χ² / ndf 131.7 / 78
p0 −17.51 ± 2.562
pull
Entries 79
Mean −907.4
Std Dev 945.3

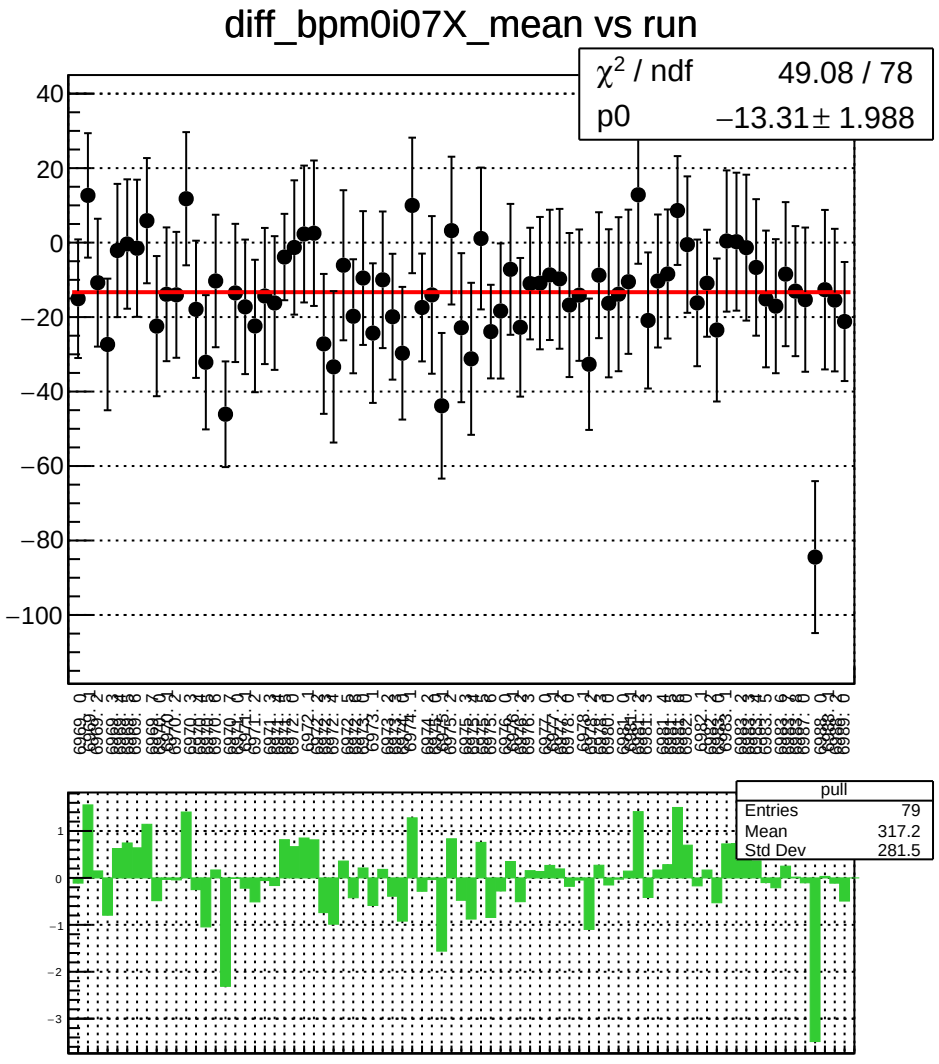

pull1D
Entries 79
Mean −0.01525
Std Dev 1.291

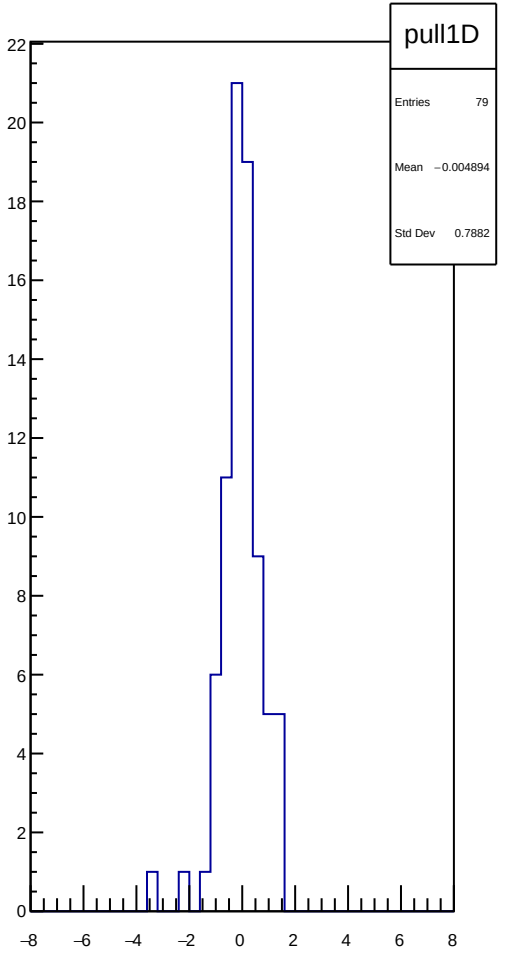

diff_bpm0i05X_rms vs run
χ² / ndf 5903 / 78
p0 2258 ± 1.812
2800
2700
2600
2500
2400
2300
2200
2100
2000

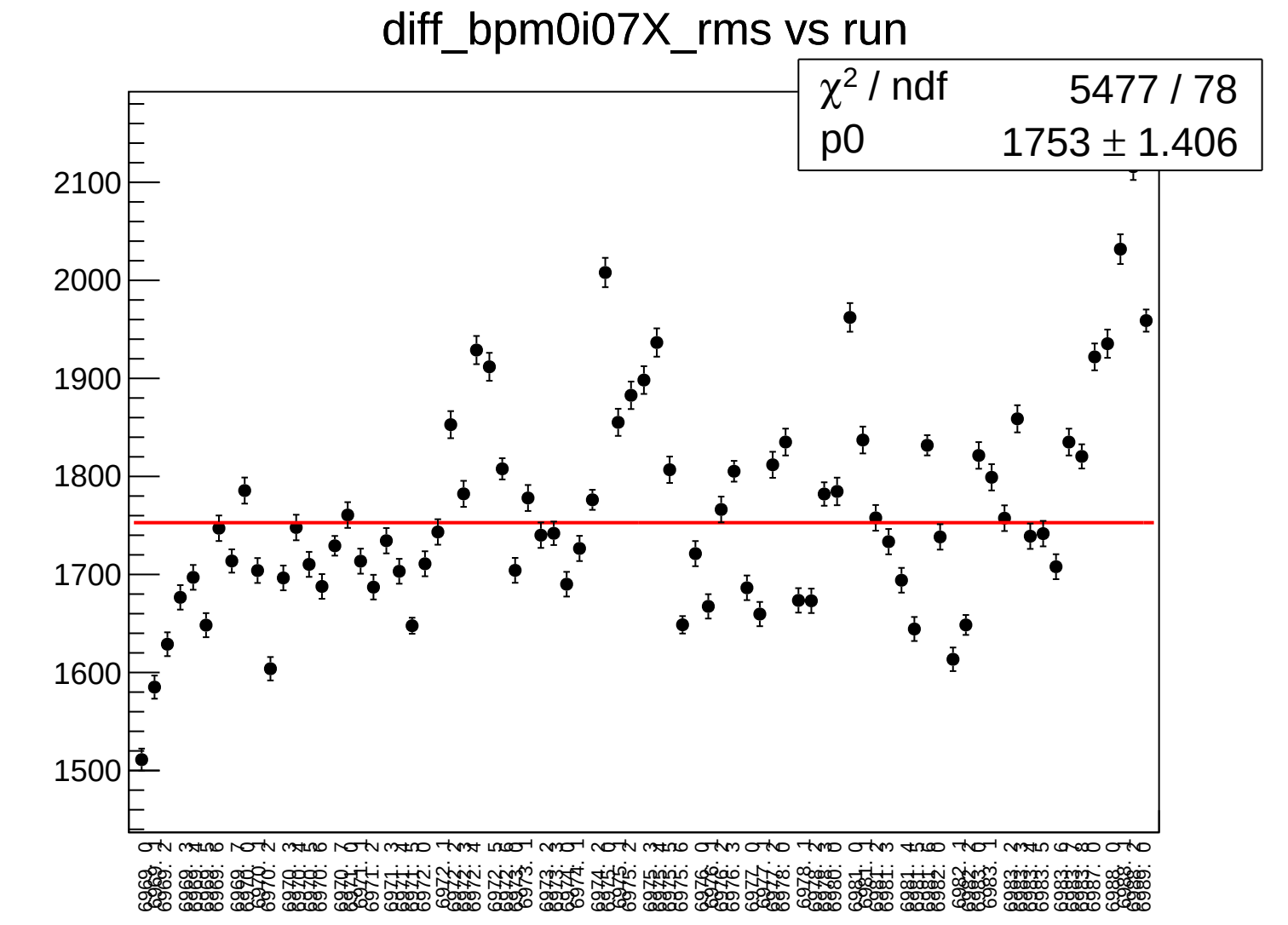

diff_bpm0i05Y_mean vs run
χ² / ndf 75.09 / 78
p0 −1.358 ± 2.127
pull
Entries 79
Mean 384.3
Std Dev 347.2

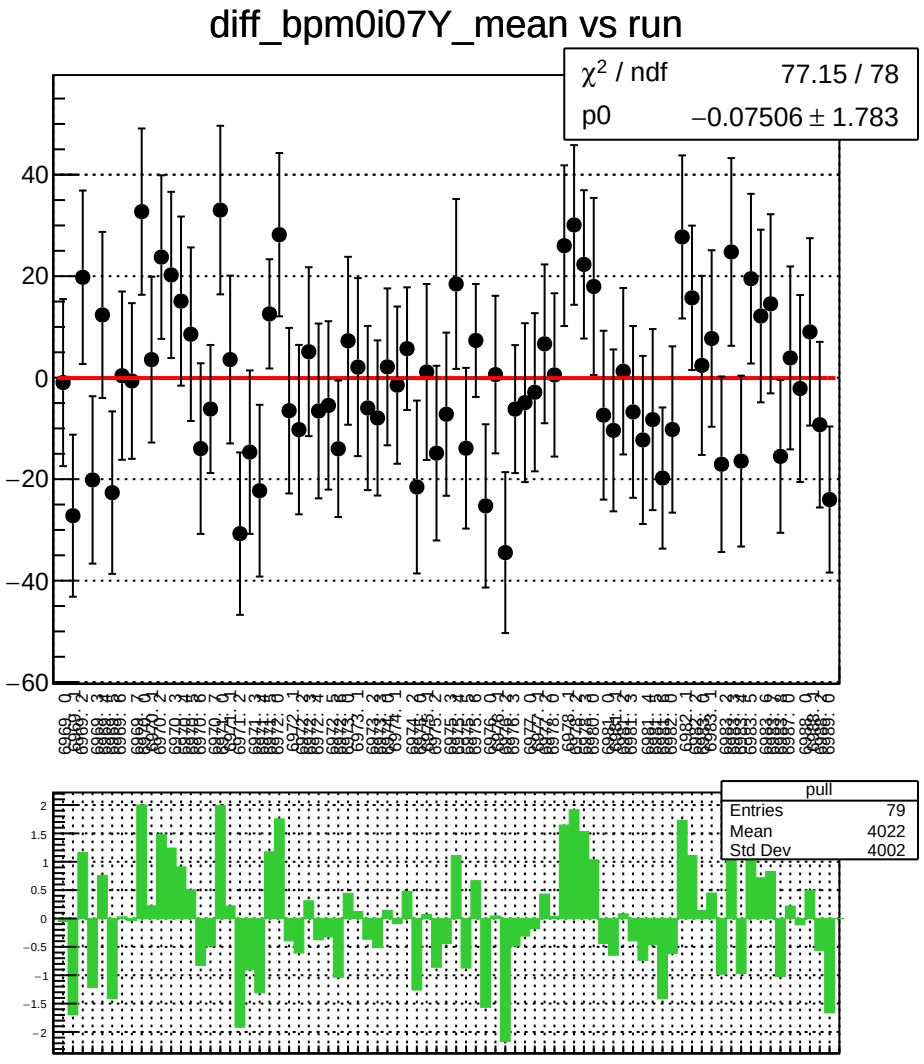

pull1D
Entries 79
Mean 0.006351
Std Dev 0.9749

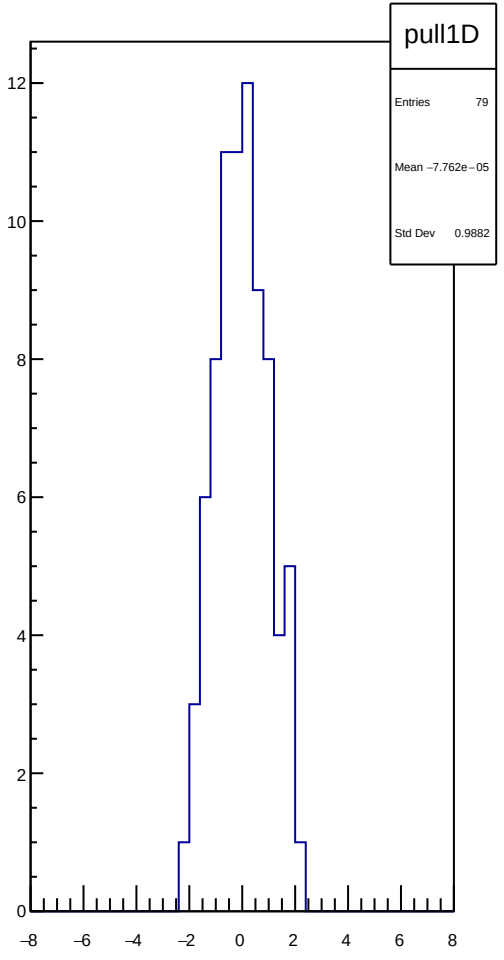

diff_bpm0i05Y_rms vs run
χ² / ndf 2019 / 78
p0 1877 ± 1.504
2150
2100
2050
2000
1950
1900
1850
1800
1750

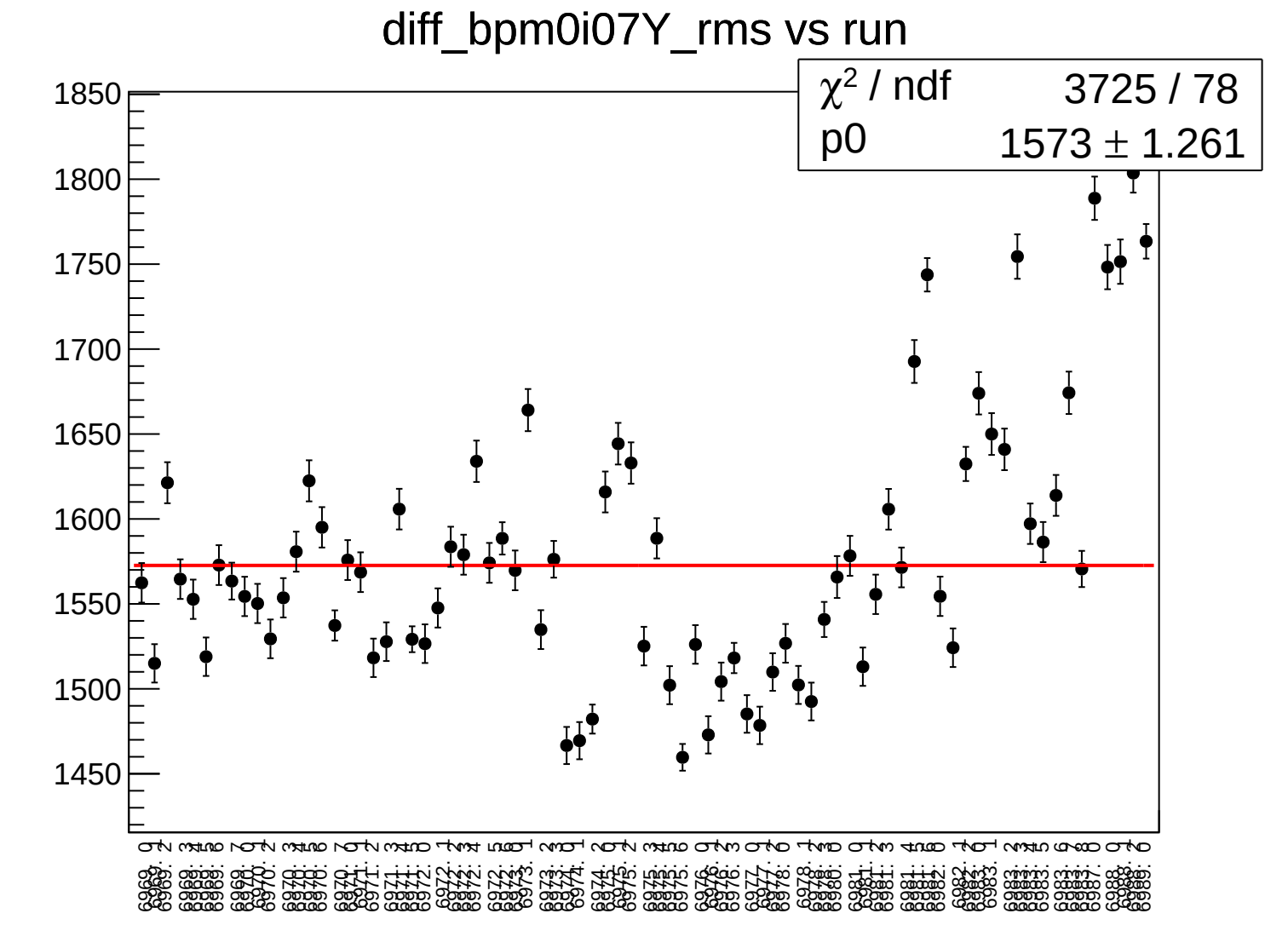

diff_bpm0i07X_mean vs run
χ² / ndf 49.08 / 78
p0 −13.31± 1.988
pull
Entries 79
Mean 317.2
Std Dev 281.5

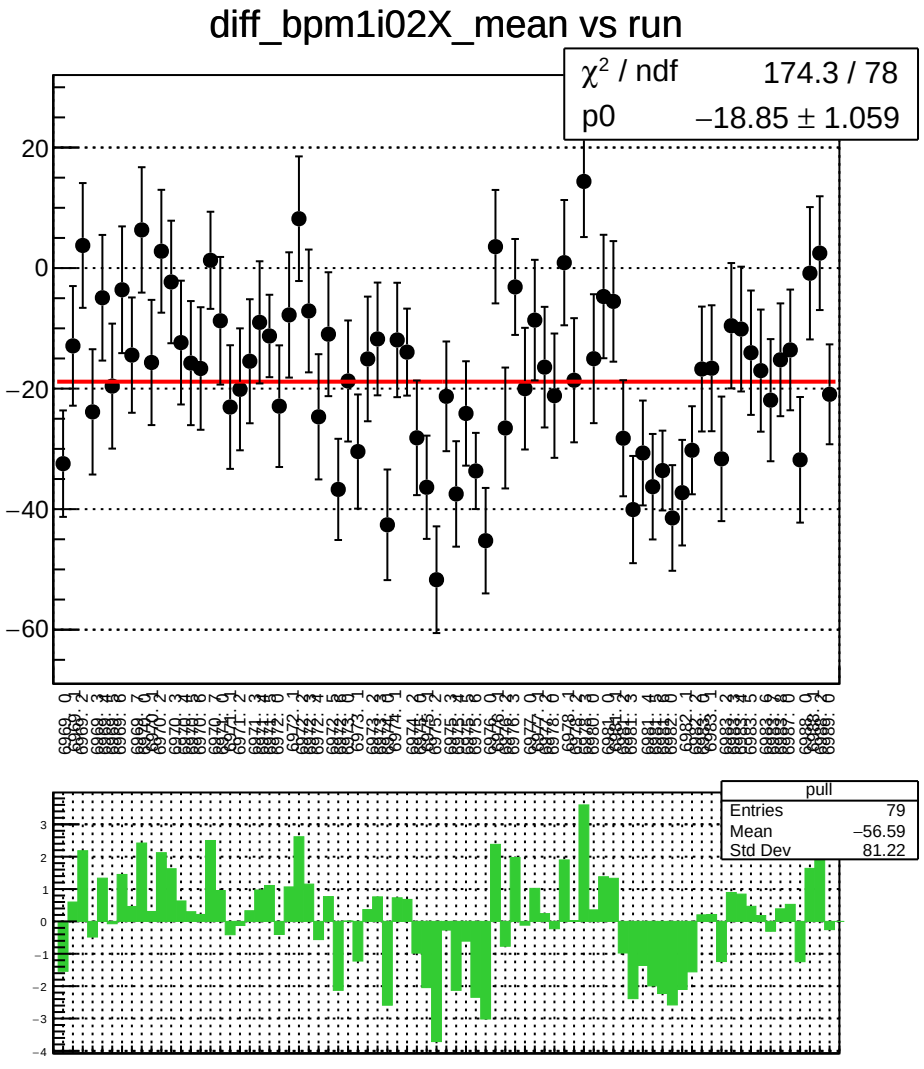

pull1D
Entries 79
Mean −0.004894
Std Dev 0.7882

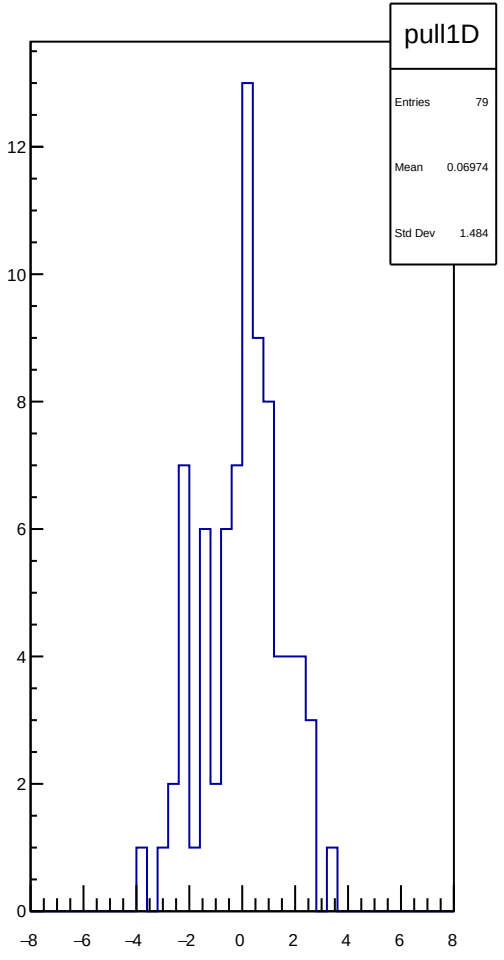

diff_bpm0i07X_rms vs run
χ² / ndf 5477 / 78
p0 1753 ± 1.406
2100
2000
1900
1800
1700
1600
1500

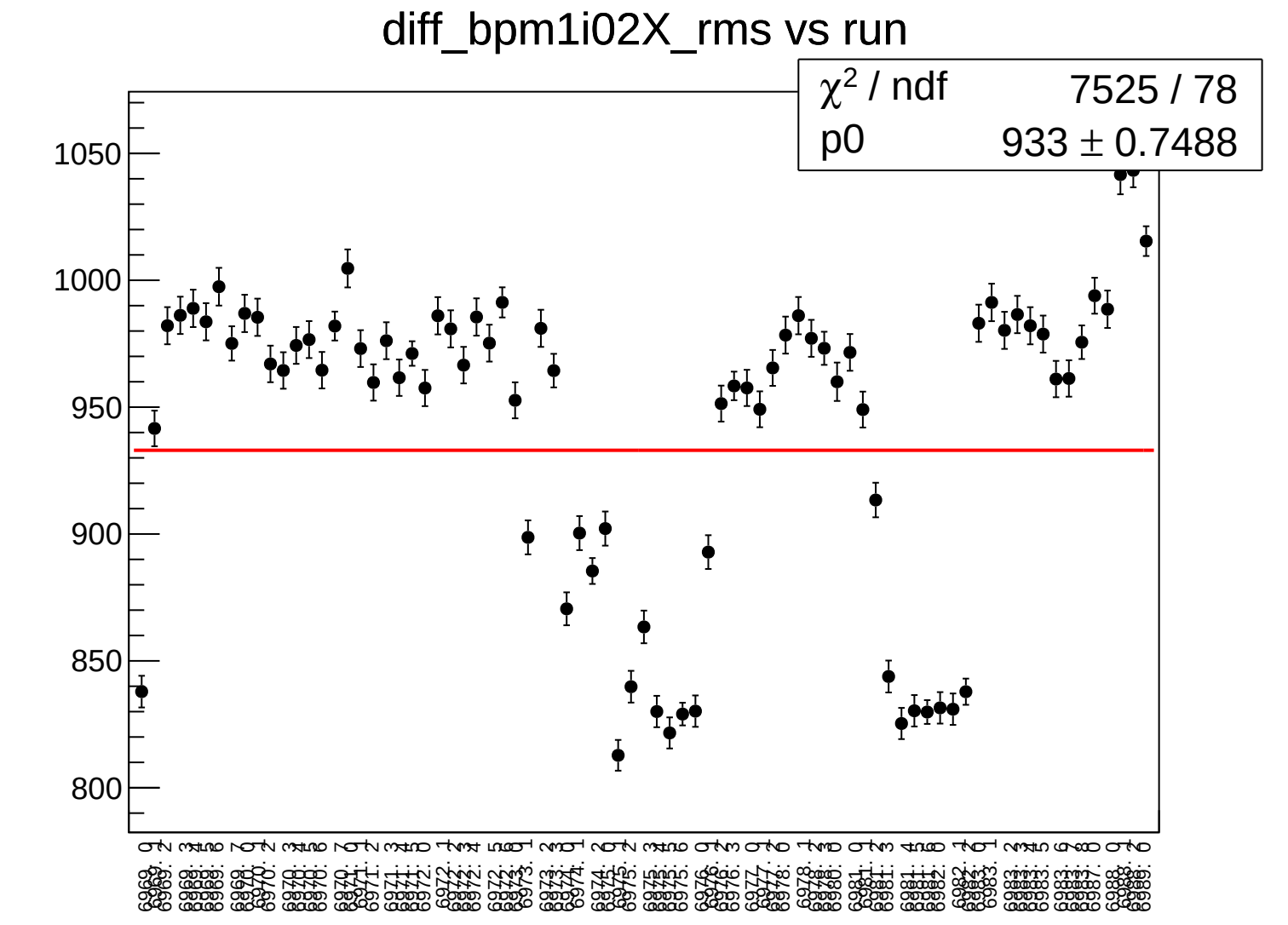

diff_bpm0i07Y_mean vs run
χ² / ndf 77.15 / 78
p0 −0.07506 ± 1.783
pull
Entries 79
Mean 4022
Std Dev 4002

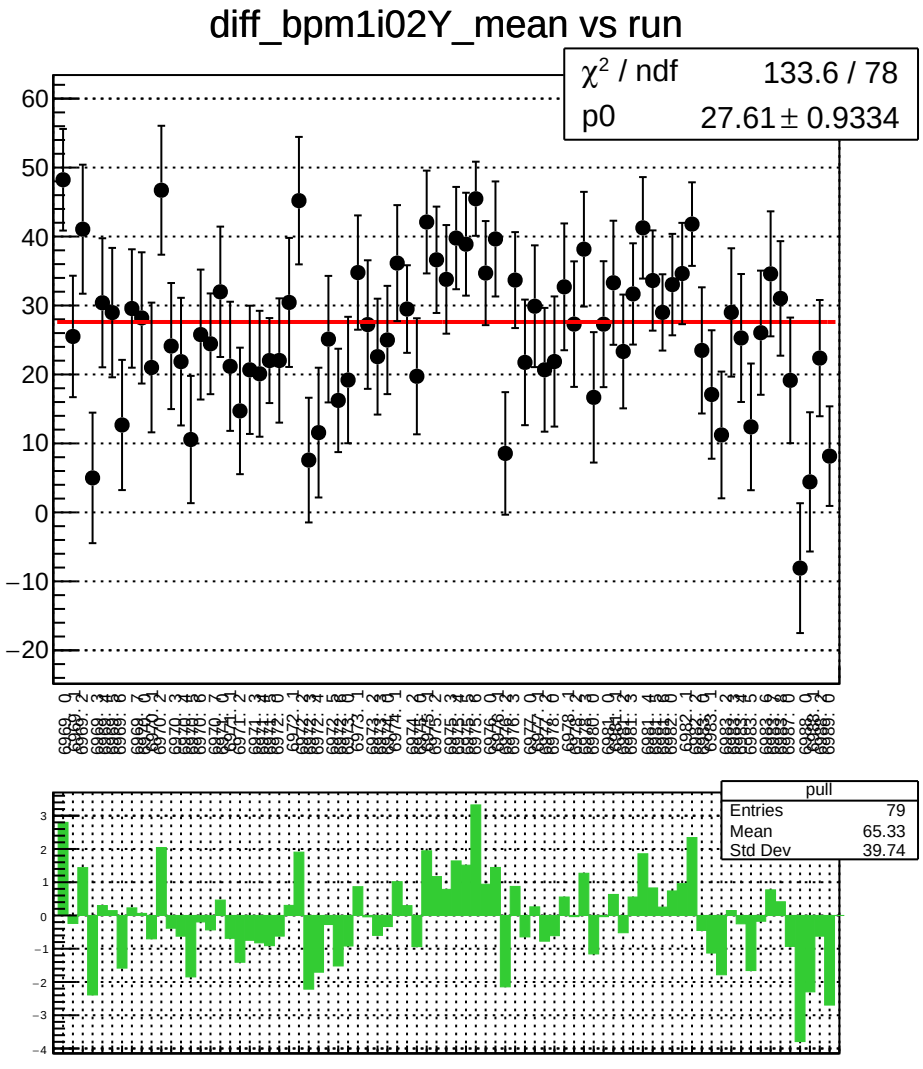

pull1D
Entries 79
Mean −7.762e−05
Std Dev 0.9882

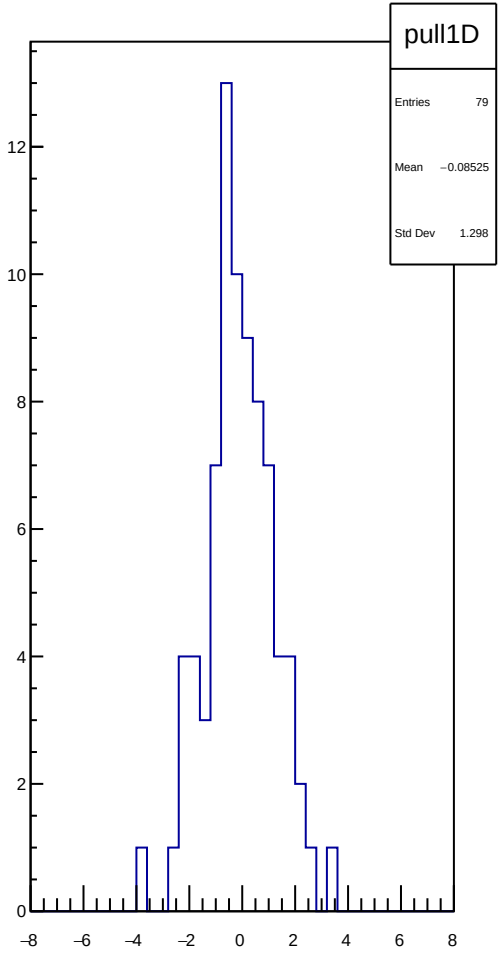

diff_bpm0i07Y_rms vs run
χ² / ndf 3725 / 78
p0 1573 ± 1.261
1850
1800
1750
1700
1650
1600
1550
1500
1450

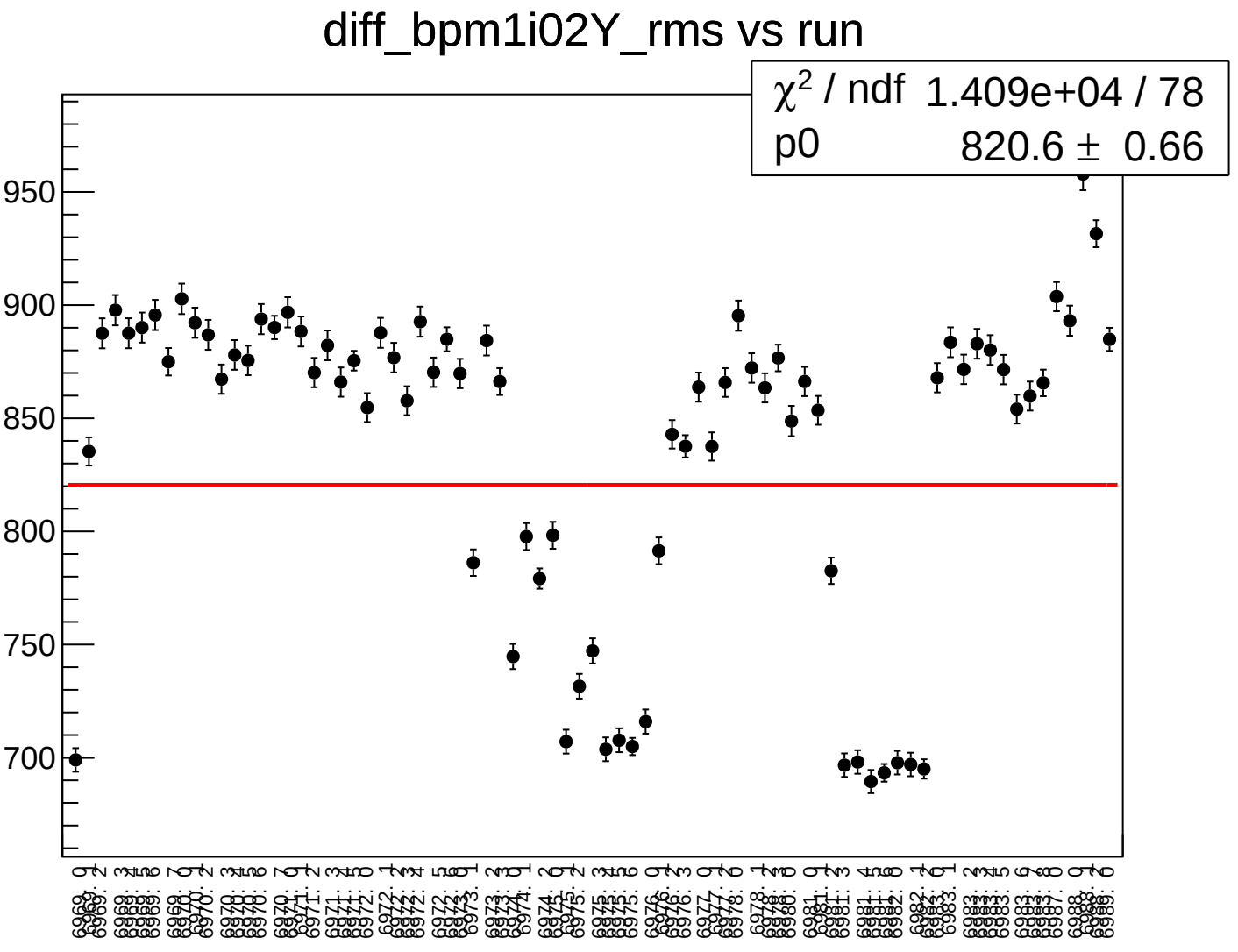

diff_bpm1i02X_mean vs run
χ² / ndf 174.3 / 78
p0 −18.85 ± 1.059
pull
Entries 79
Mean −56.59
Std Dev 81.22

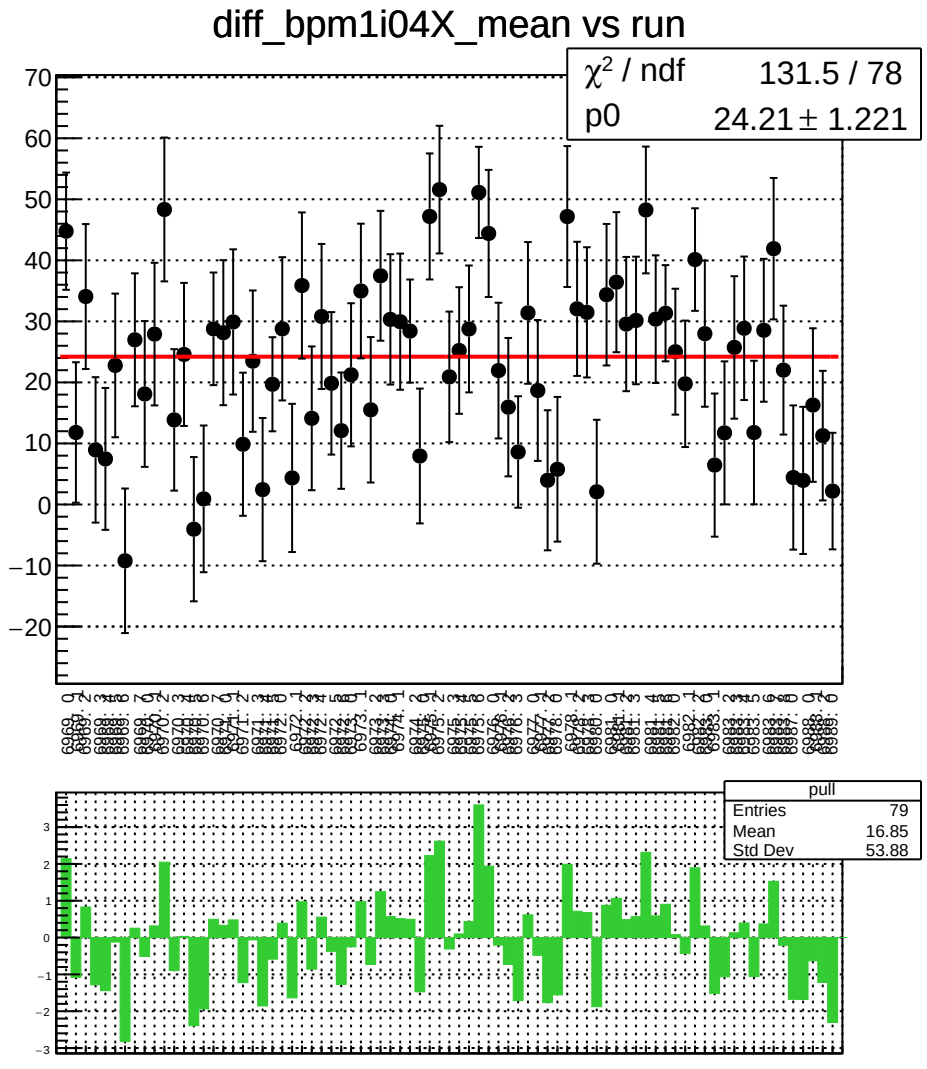

pull1D
Entries 79
Mean 0.06974
Std Dev 1.484

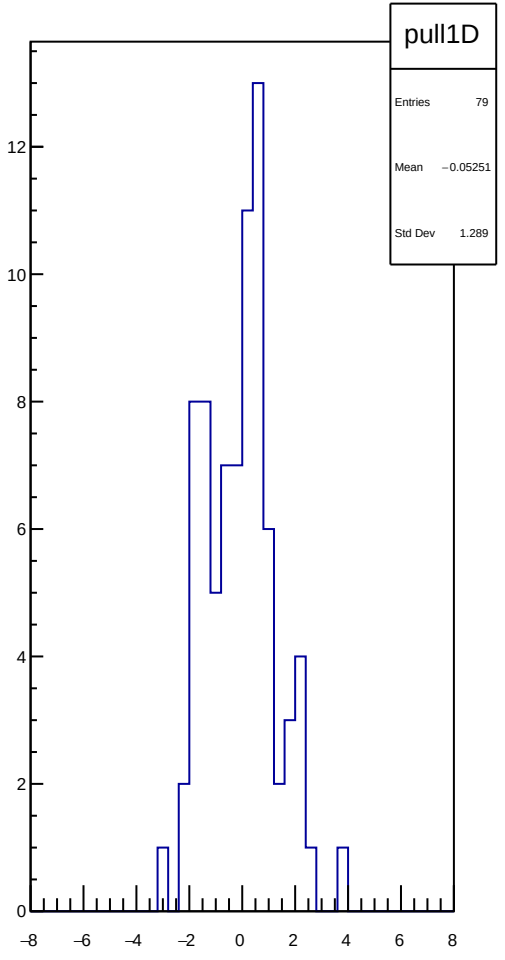

diff_bpm1i02X_rms vs run
χ² / ndf 7525 / 78
p0 933 ± 0.7488
1050
1000
950
900
850
800

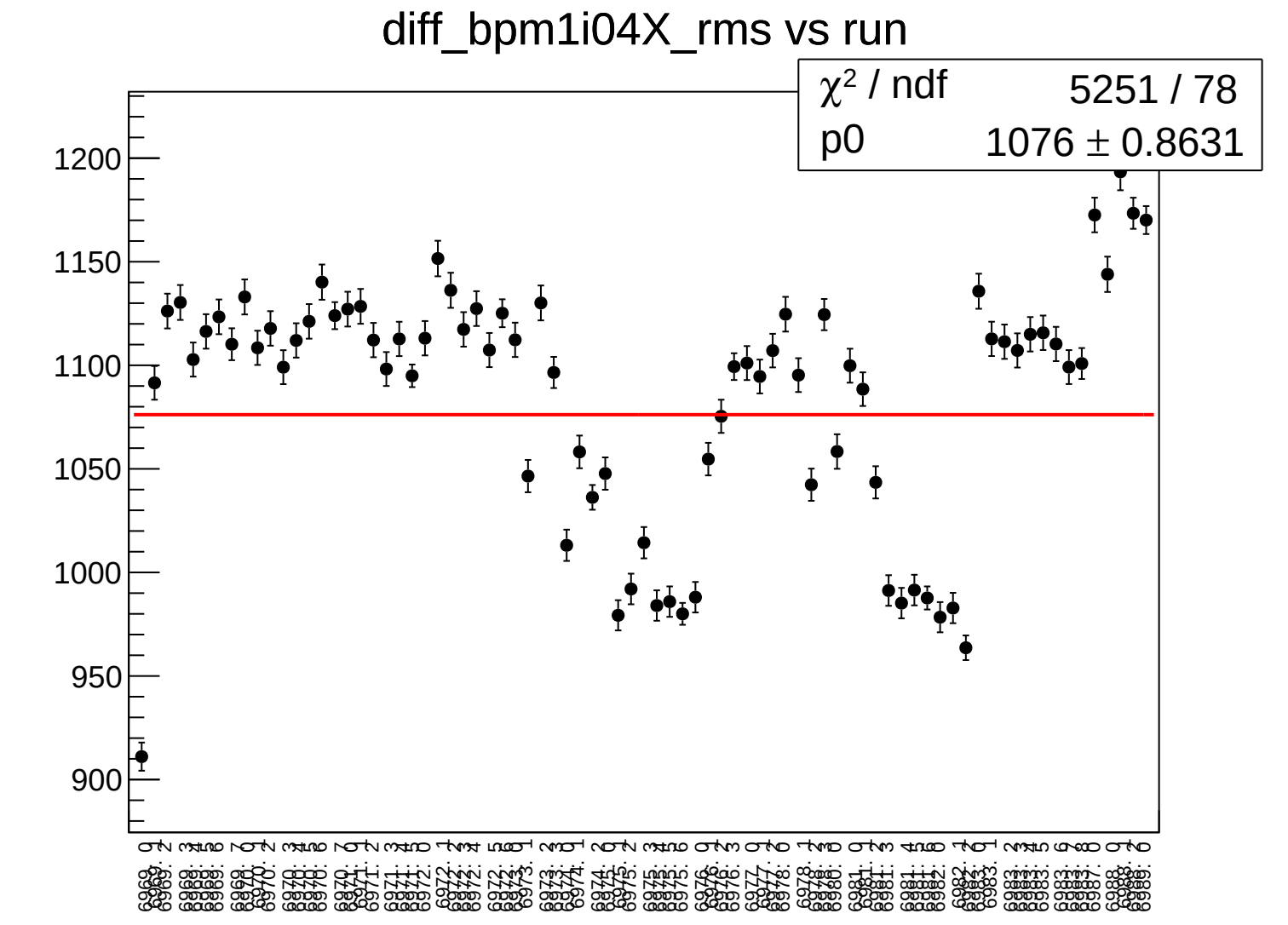

diff_bpm1i02Y_mean vs run
χ² / ndf 133.6 / 78
p0 27.61 ± 0.9334
pull
Entries 79
Mean 65.33
Std Dev 39.74

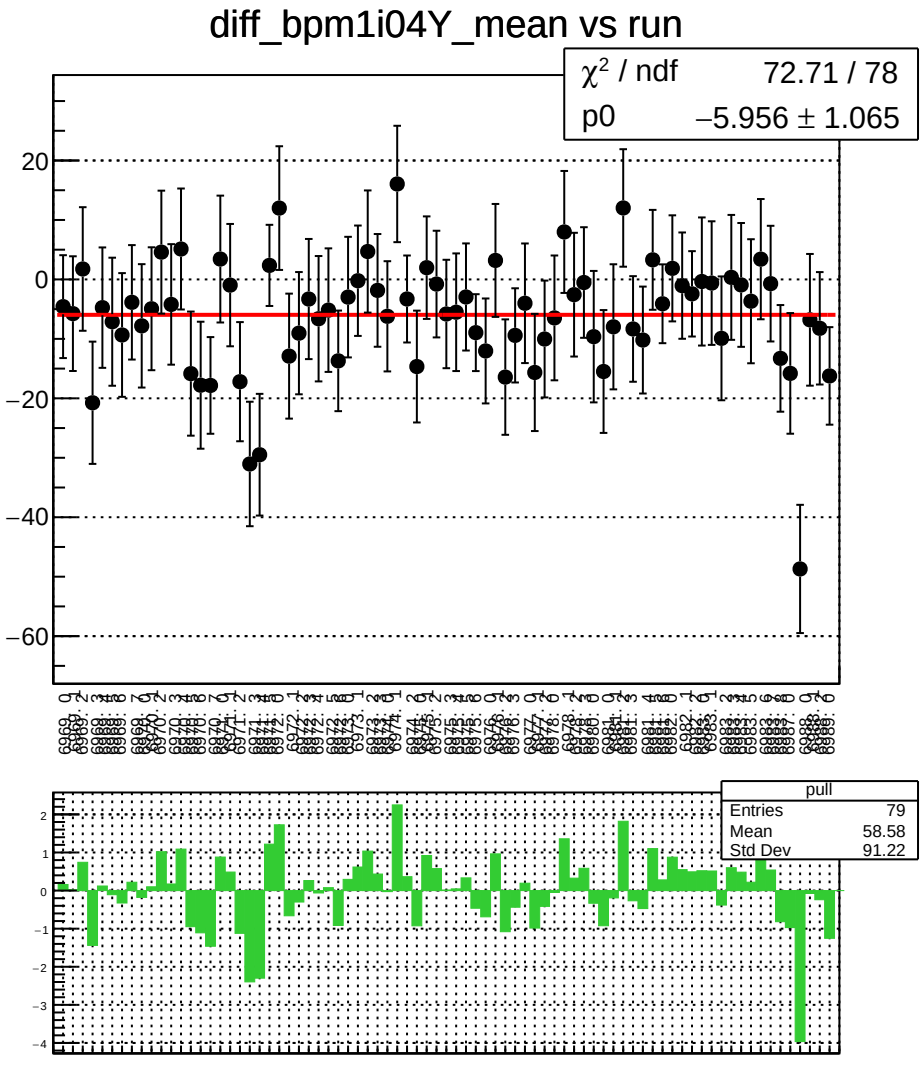

pull1D
Entries 79
Mean −0.08525
Std Dev 1.298

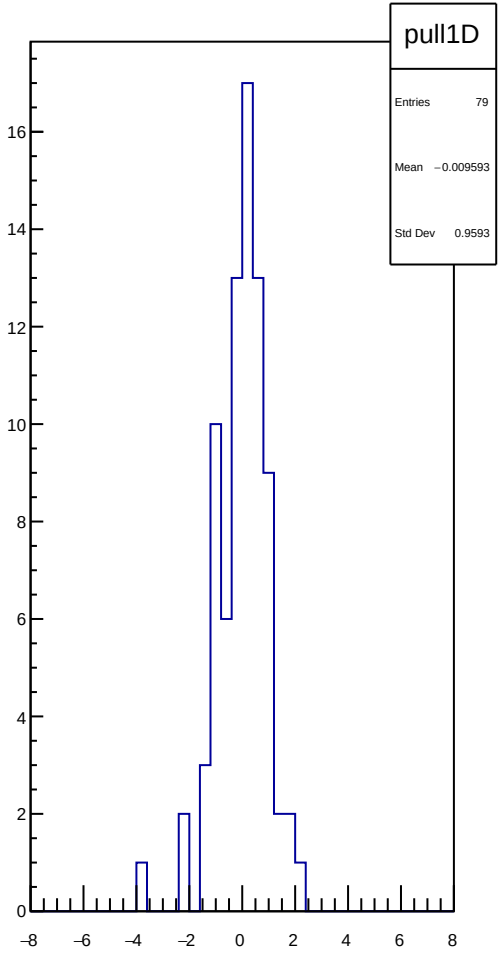

diff_bpm1i02Y_rms vs run
χ² / ndf 1.409e+04 / 78
p0 820.6 ± 0.66
950
900
850
800
750
700

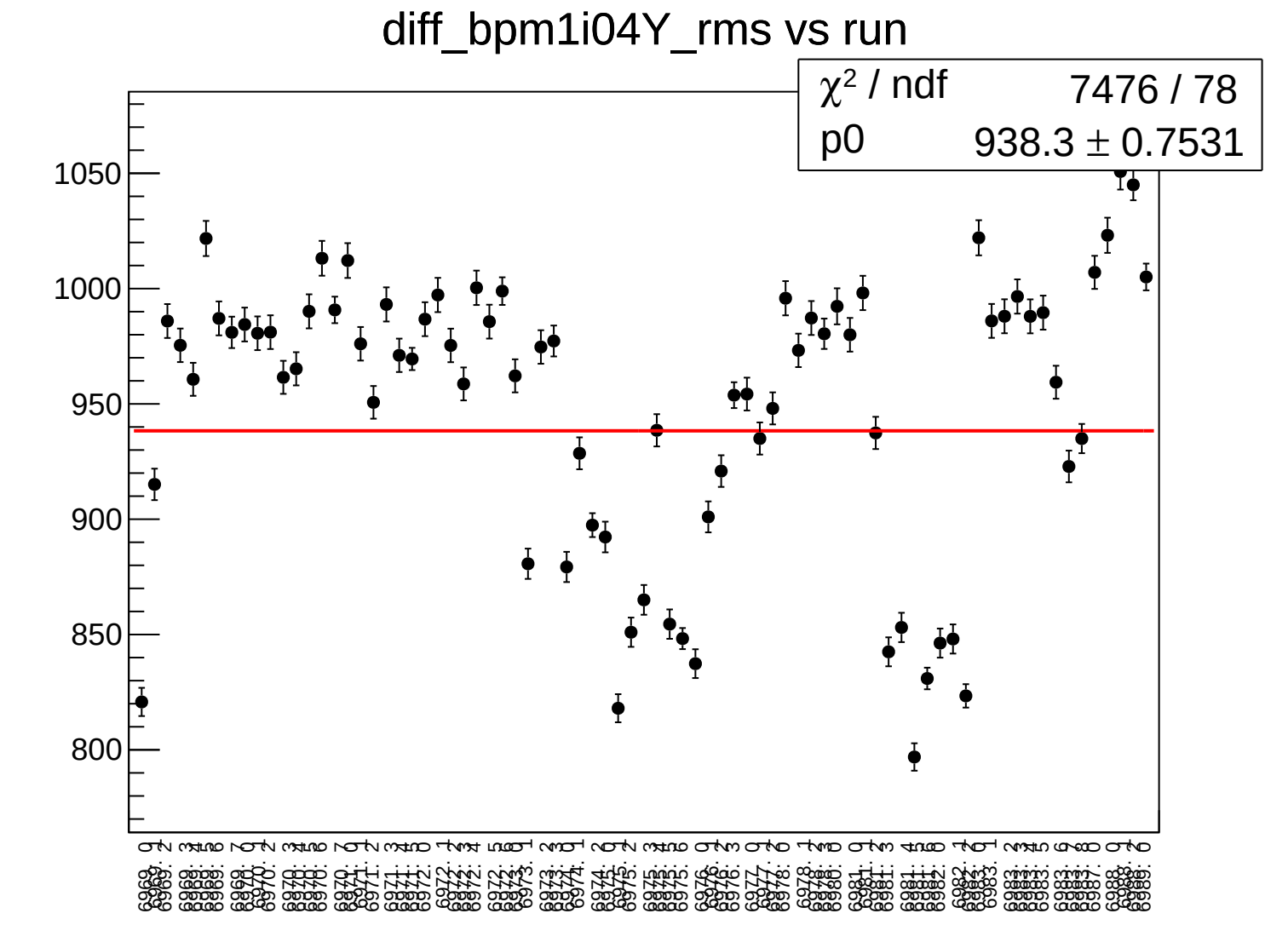

diff_bpm1i04X_mean vs run
χ^2 / ndf 131.5 / 78
p0 24.21 ± 1.221
pull
Entries 79
Mean 16.85
Std Dev 53.88

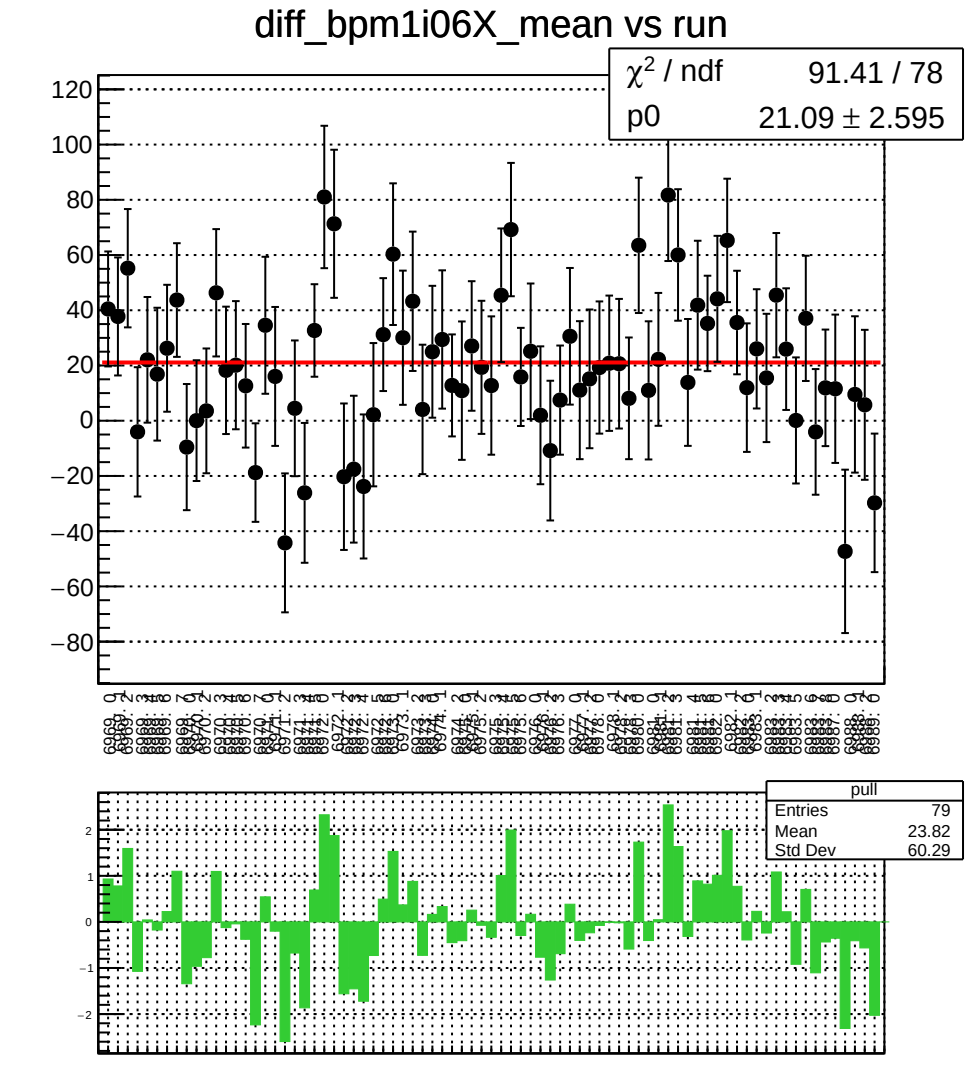

pull1D
Entries 79
Mean −0.05251
Std Dev 1.289

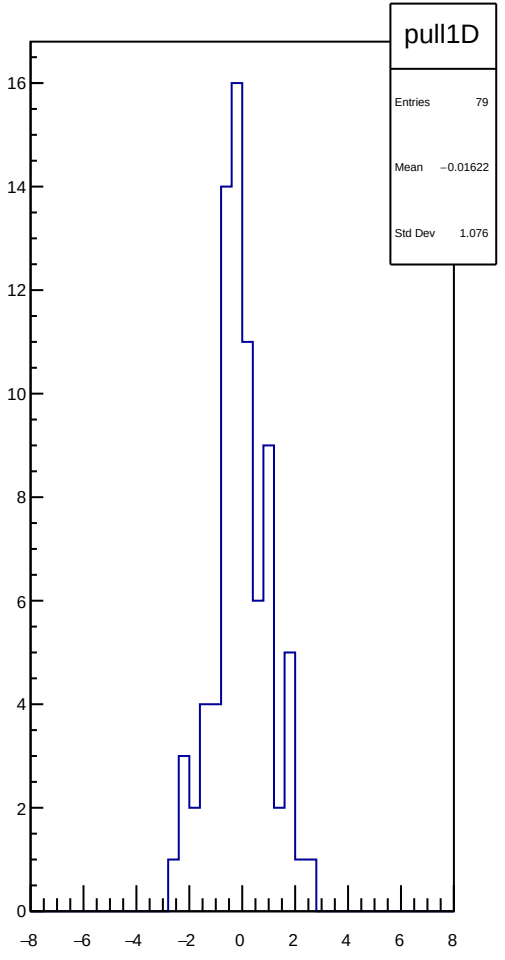

diff_bpm1i04X_rms vs run
χ² / ndf 5251 / 78
p0 1076 ± 0.8631
1200
1150
1100
1050
1000
950
900

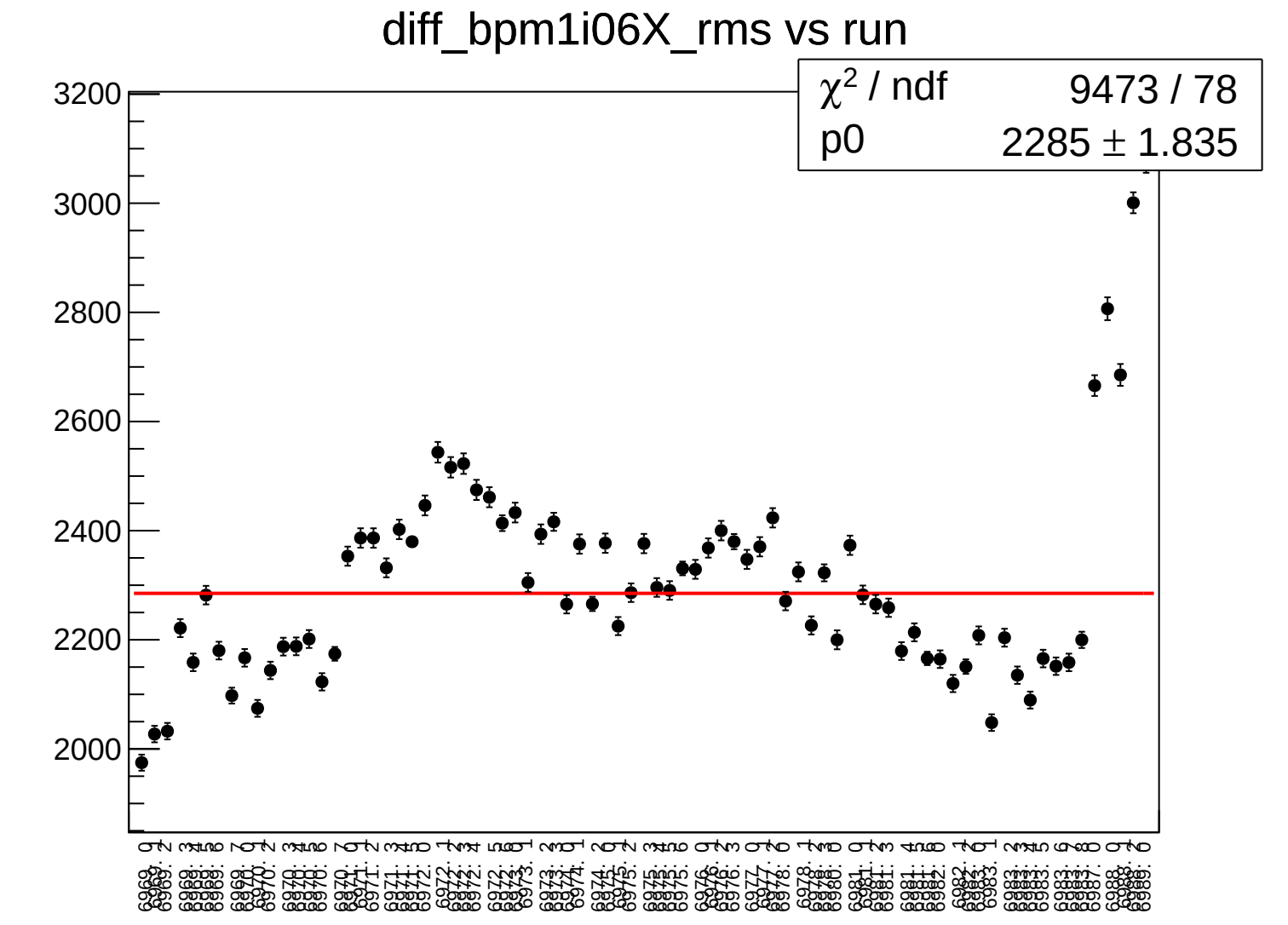

diff_bpm1i04Y_mean vs run
χ² / ndf 72.71 / 78
p0 −5.956 ± 1.065
pull
Entries 79
Mean 58.58
Std Dev 91.22

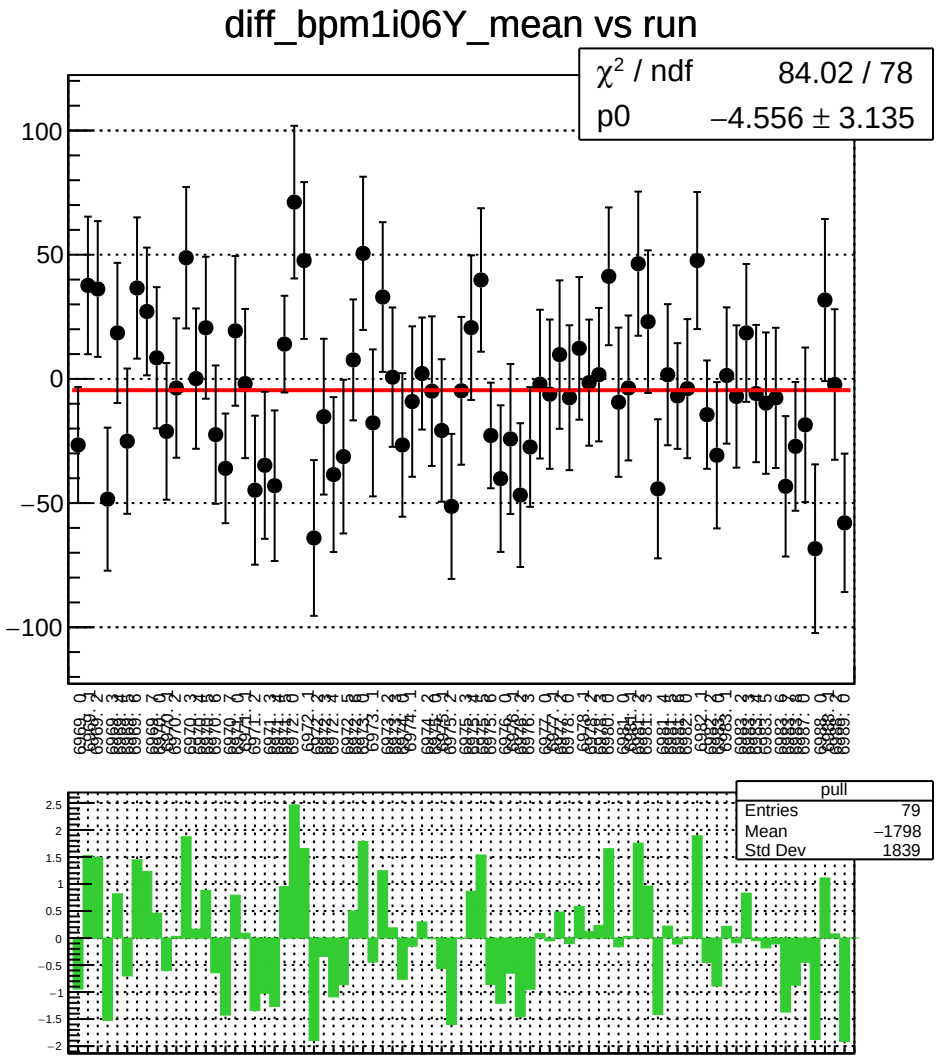

pull1D
Entries 79
Mean −0.009593
Std Dev 0.9593

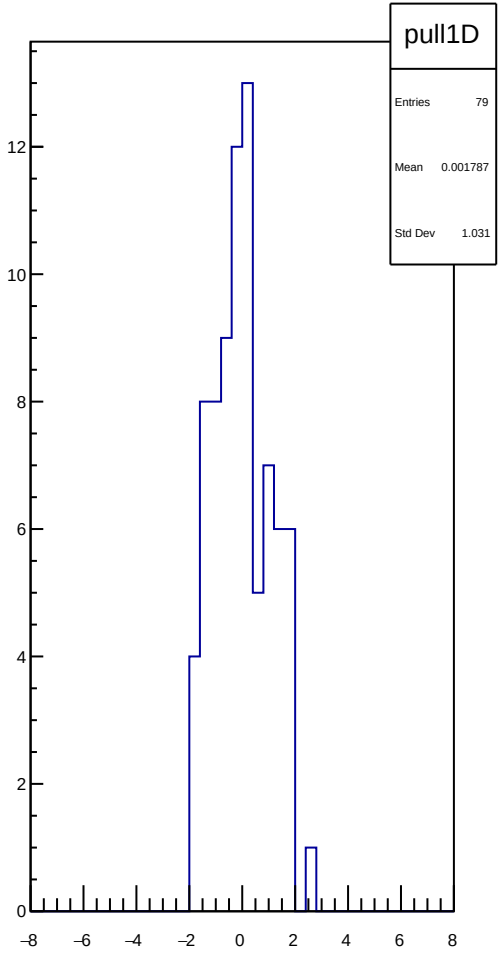

diff_bpm1i04Y_rms vs run
χ² / ndf 7476 / 78
p0 938.3 ± 0.7531
1050
1000
950
900
850
800

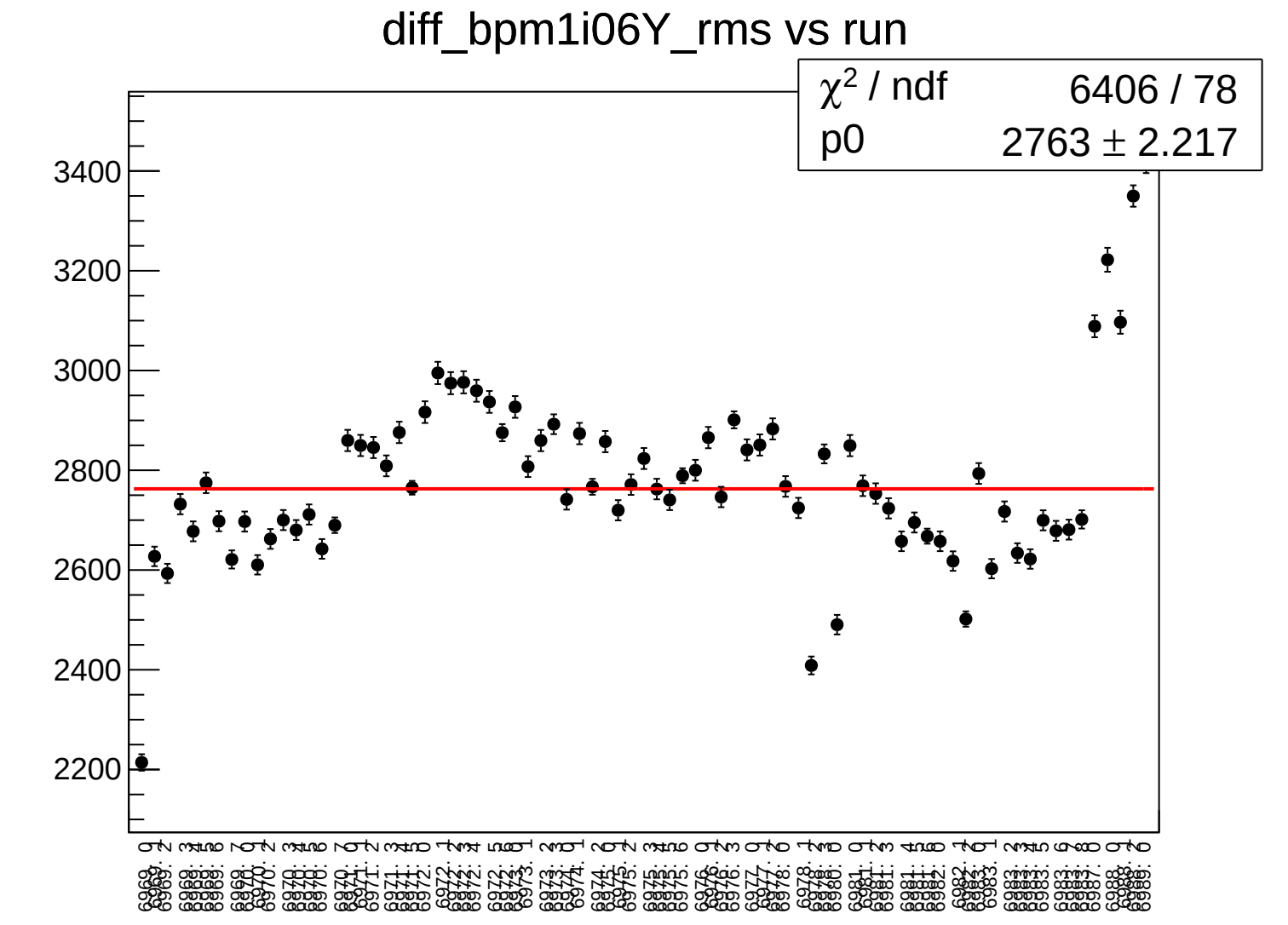

diff_bpm1i06X_mean vs run
χ^2 / ndf 91.41 / 78
p0 21.09 ± 2.595
pull
Entries 79
Mean 23.82
Std Dev 60.29

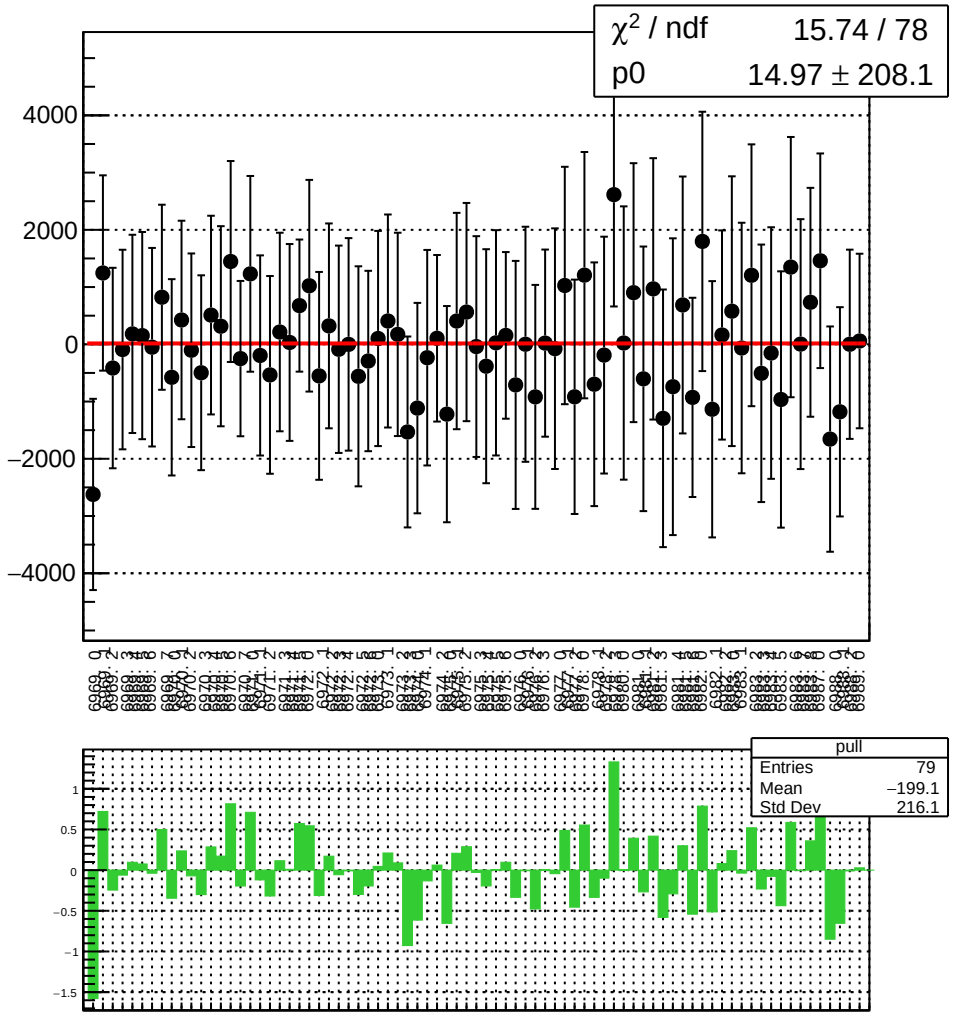

pull1D
Entries 79
Mean −0.01622
Std Dev 1.076

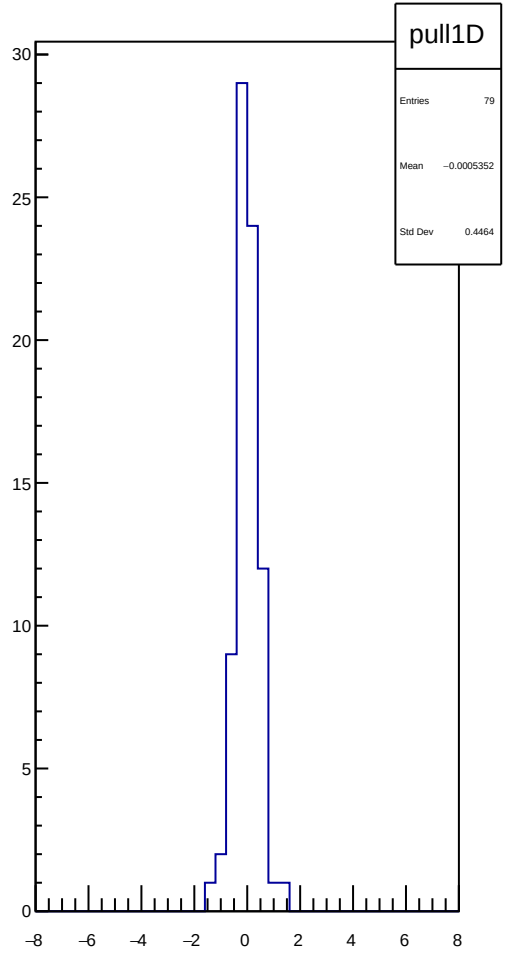

diff_bpm1i06X_rms vs run
χ² / ndf 9473 / 78
p0 2285 ± 1.835
3200
3000
2800
2600
2400
2200
2000

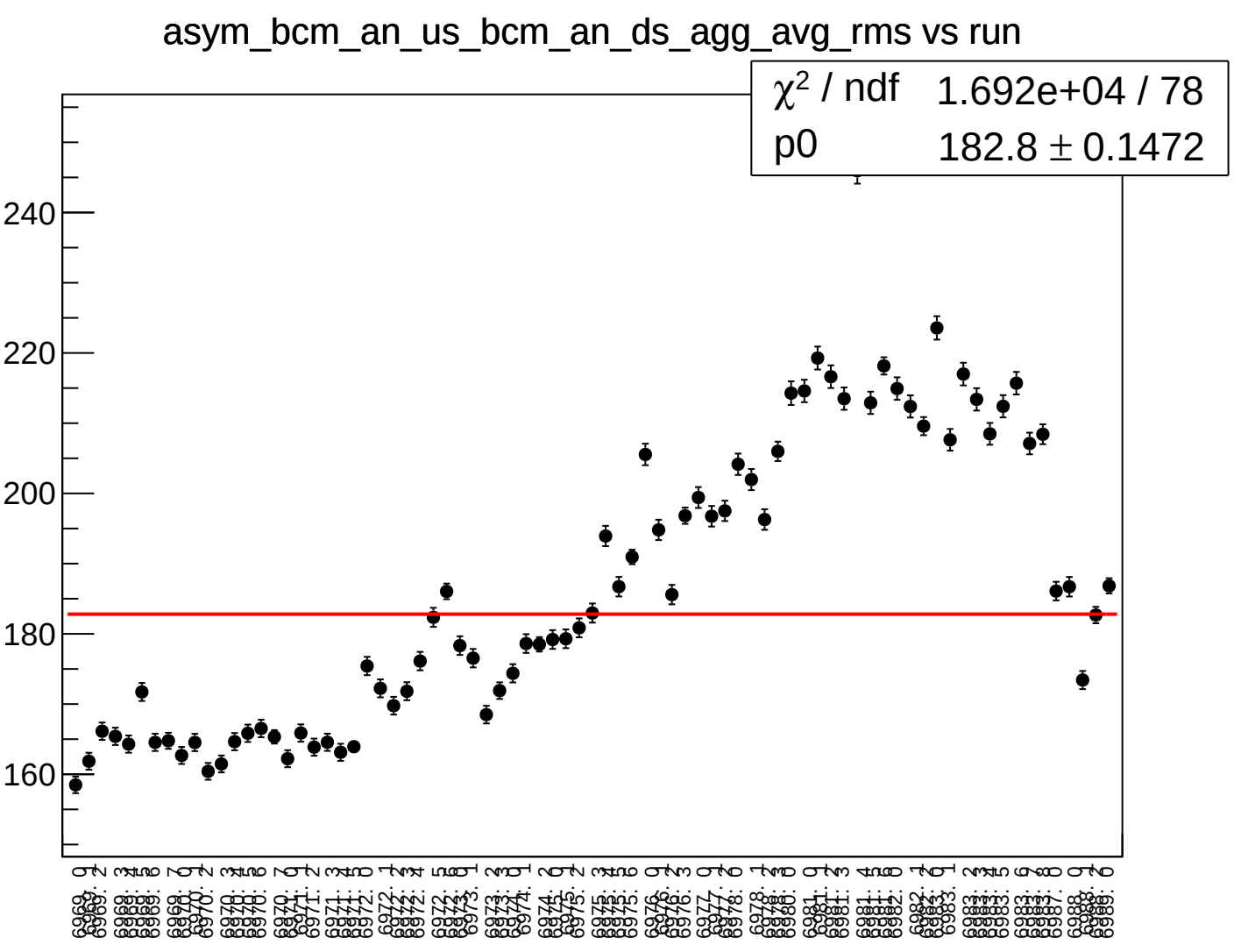

diff_bpm1i06Y_mean vs run
χ² / ndf 84.02 / 78
p0 −4.556 ± 3.135
100
50
0
−50
−100
pull
Entries 79
Mean −1798
Std Dev 1839
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

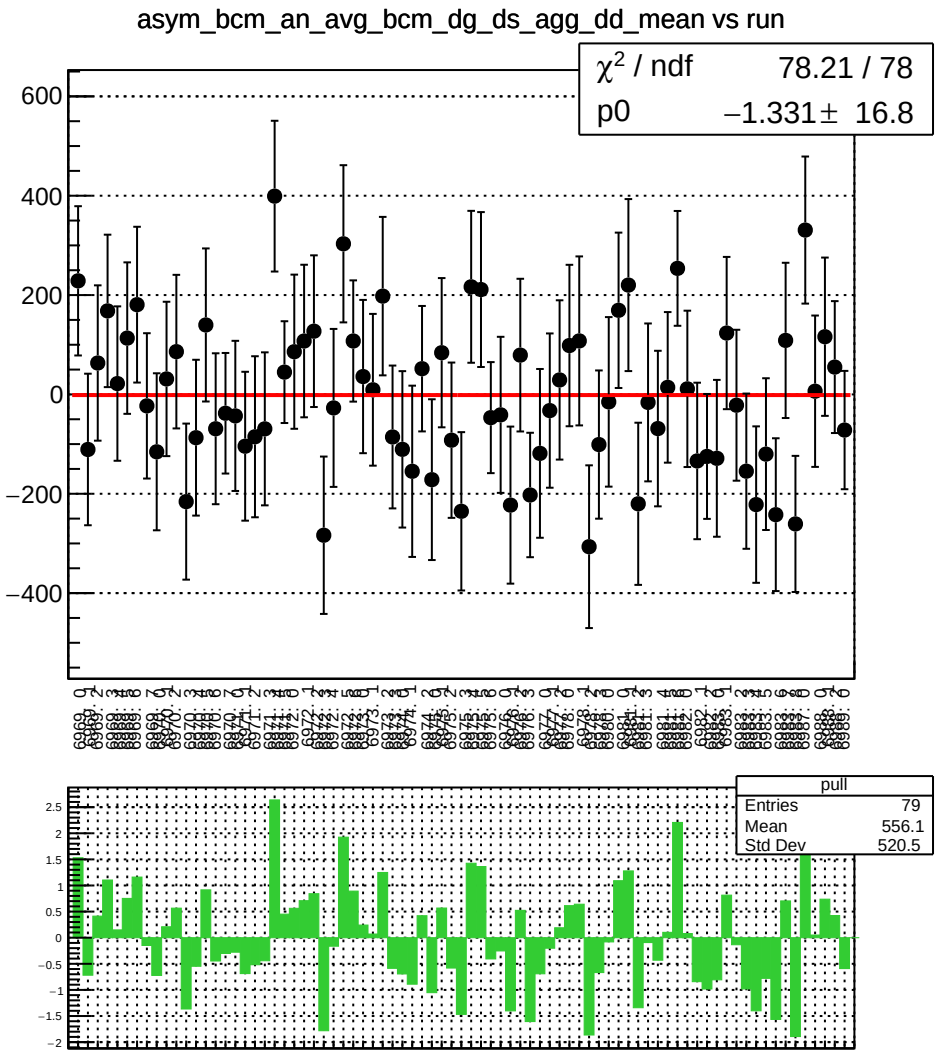

pull1D
Entries 79
Mean 0.001787
Std Dev 1.031
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

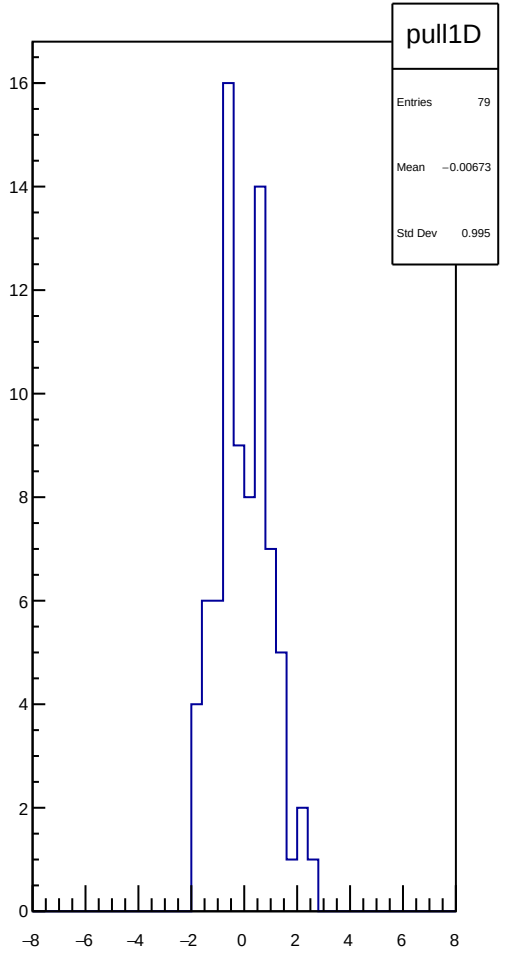

diff_bpm1i06Y_rms vs run
χ² / ndf 6406 / 78
p0 2763 ± 2.217
3400
3200
3000
2800
2600
2400
2200

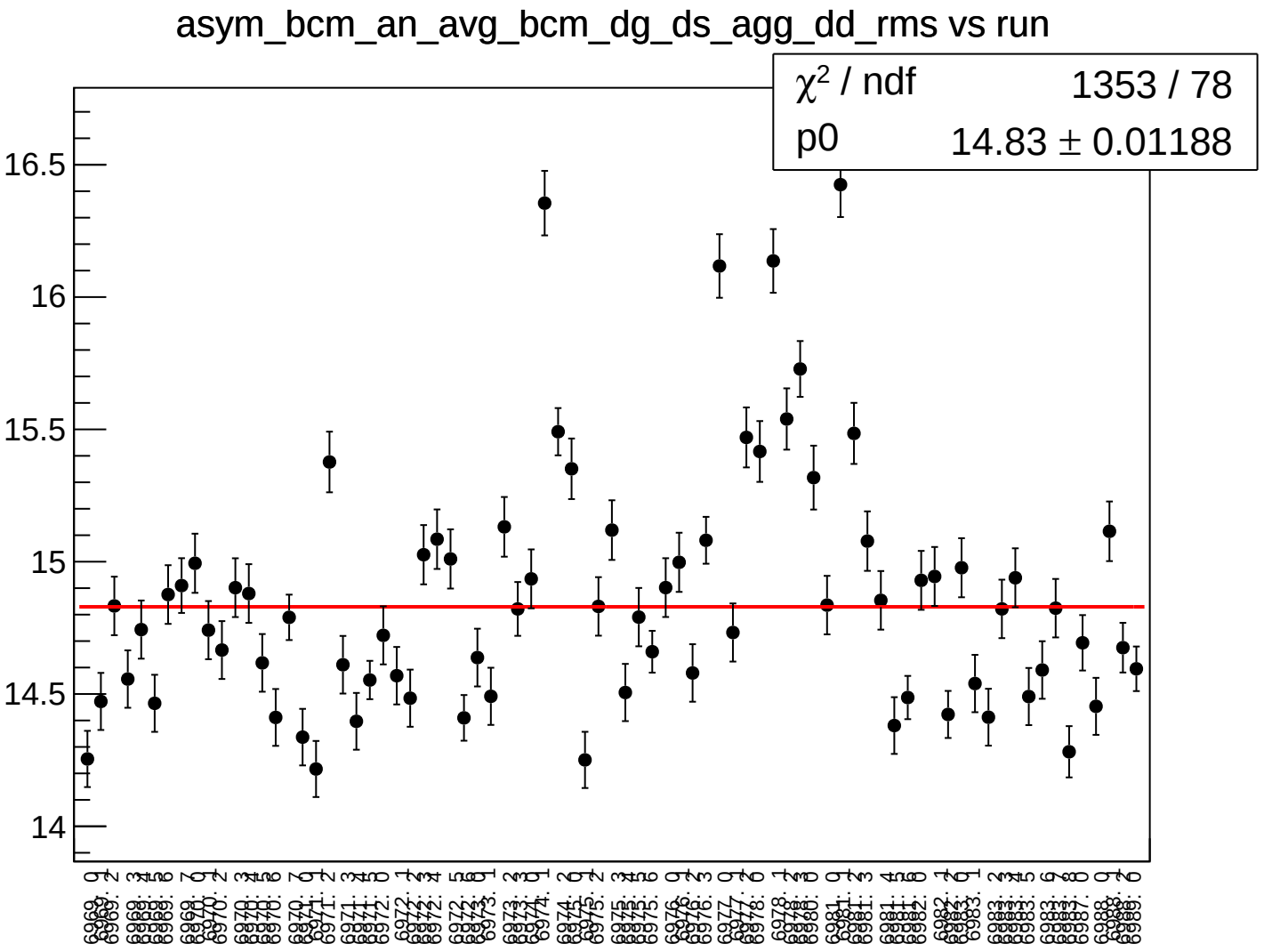

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.74 / 78
p0 14.97 ± 208.1
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −199.1
Std Dev 216.1
1
0.5
0
−0.5
−1
−1.5

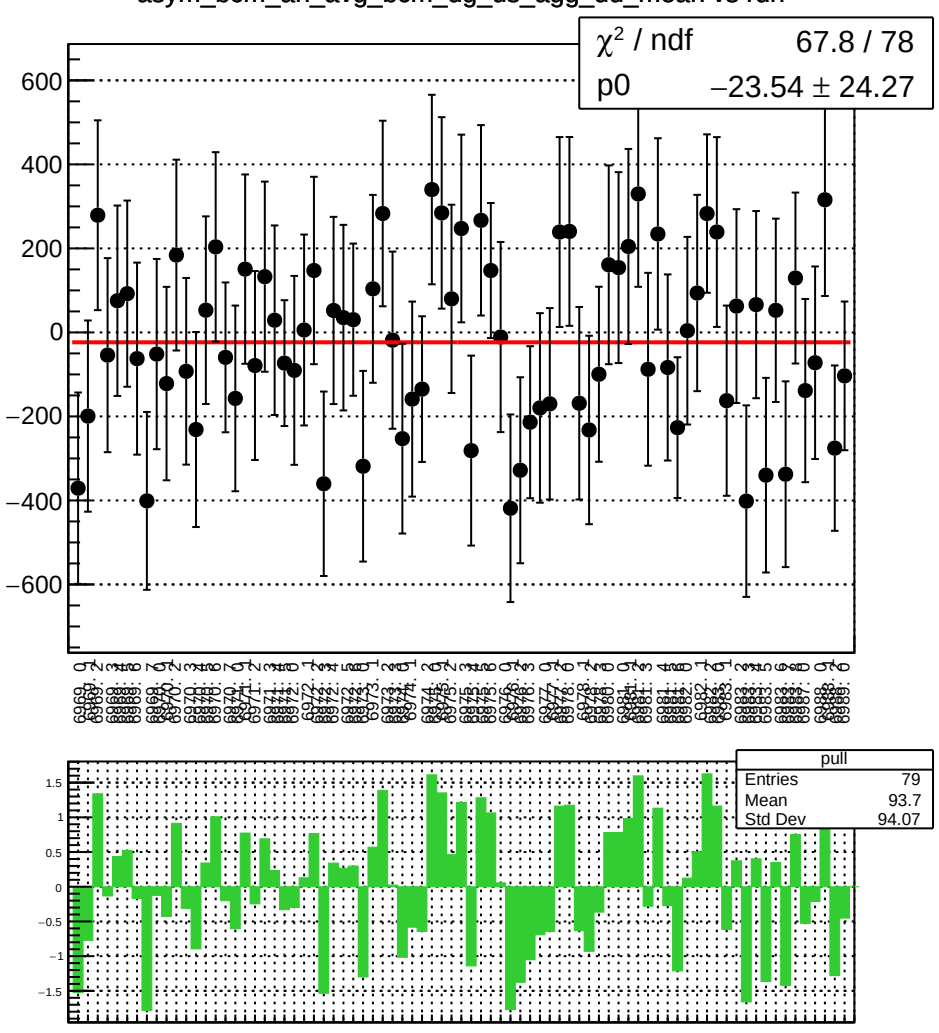

pull1D
Entries 79
Mean −0.0005352
Std Dev 0.4464
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

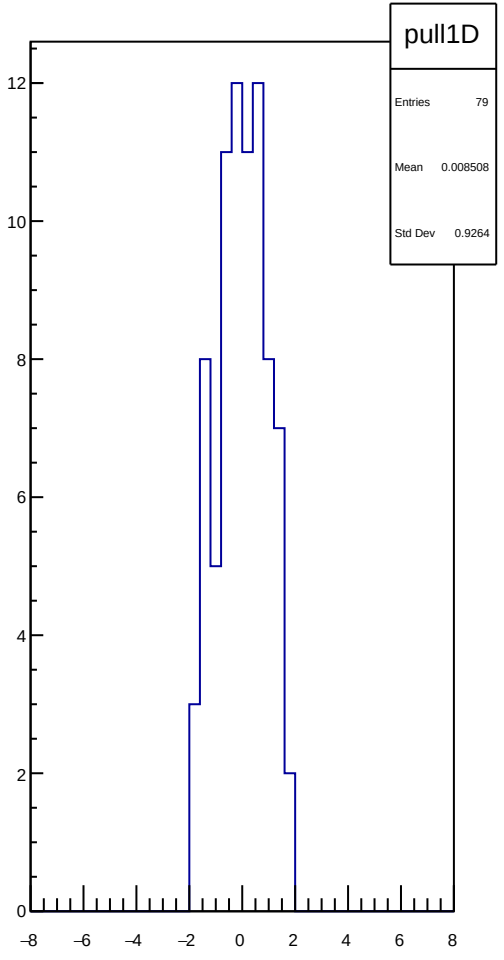

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.692e+04 / 78
p0 182.8 ± 0.1472
240
220
200
180
160

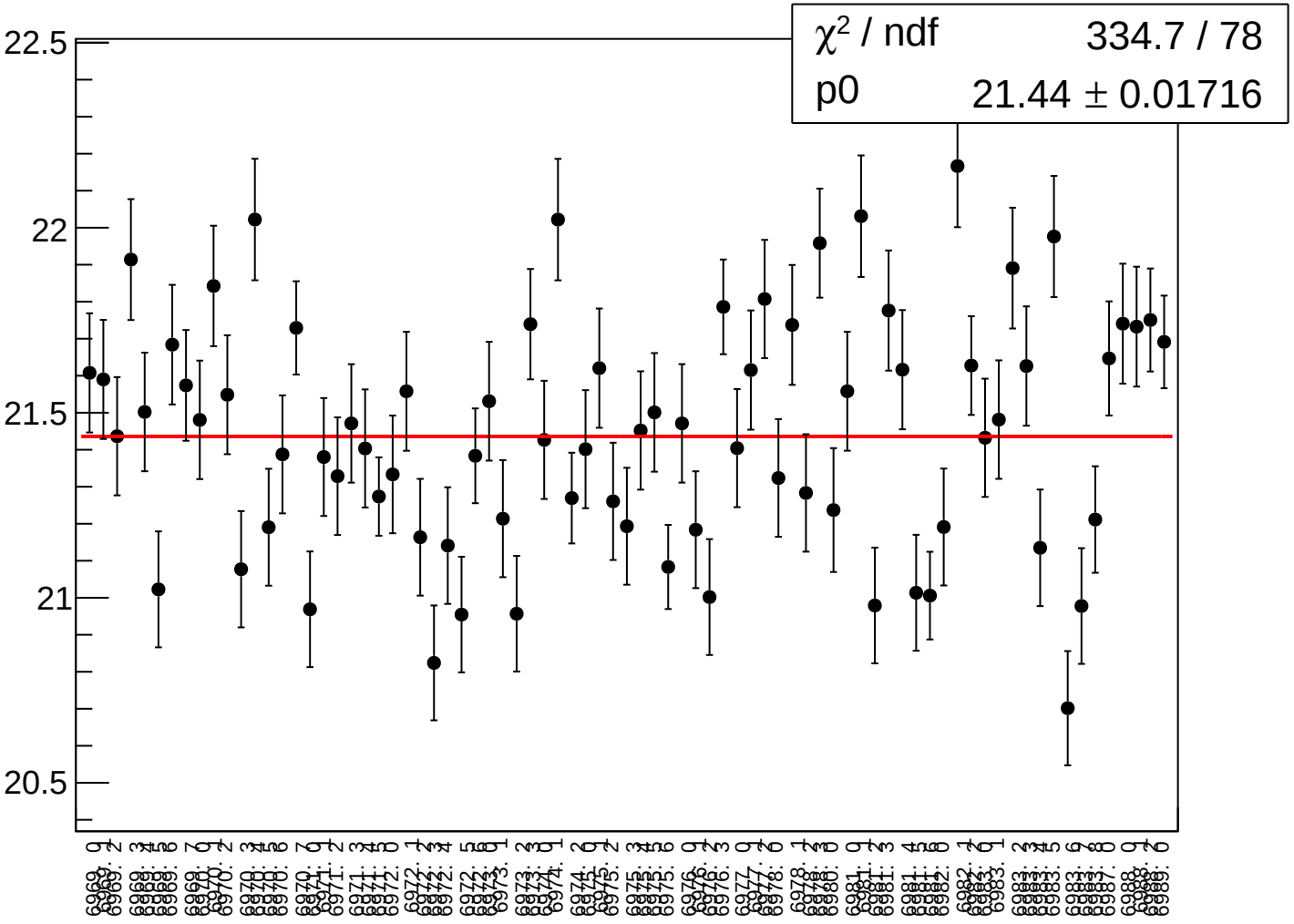

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 78.21 / 78
p0 −1.331 ± 16.8
600
400
200
0
−200
−400
pull
Entries 79
Mean 556.1
Std Dev 520.5
2.5
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

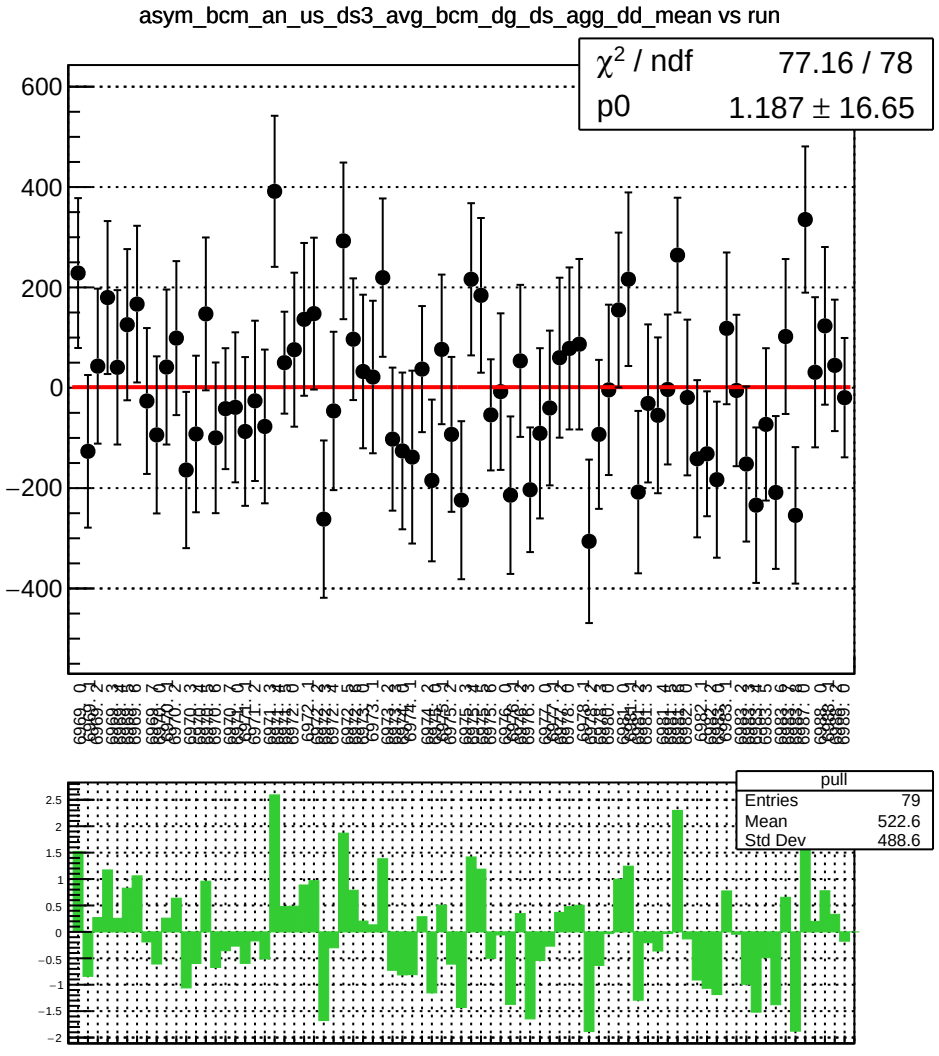

pull1D
Entries 79
Mean −0.00673
Std Dev 0.995
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

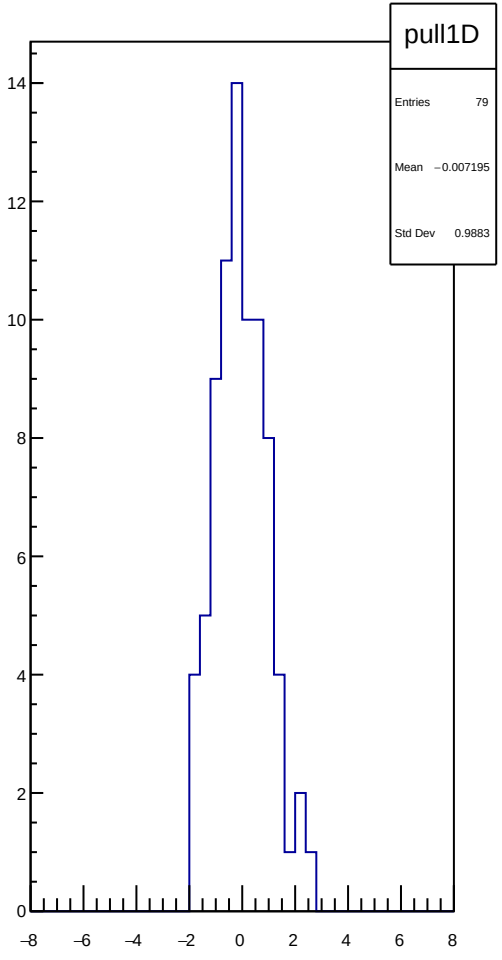

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1353 / 78
p0 14.83 ± 0.01188
16.5
16
15.5
15
14.5
14

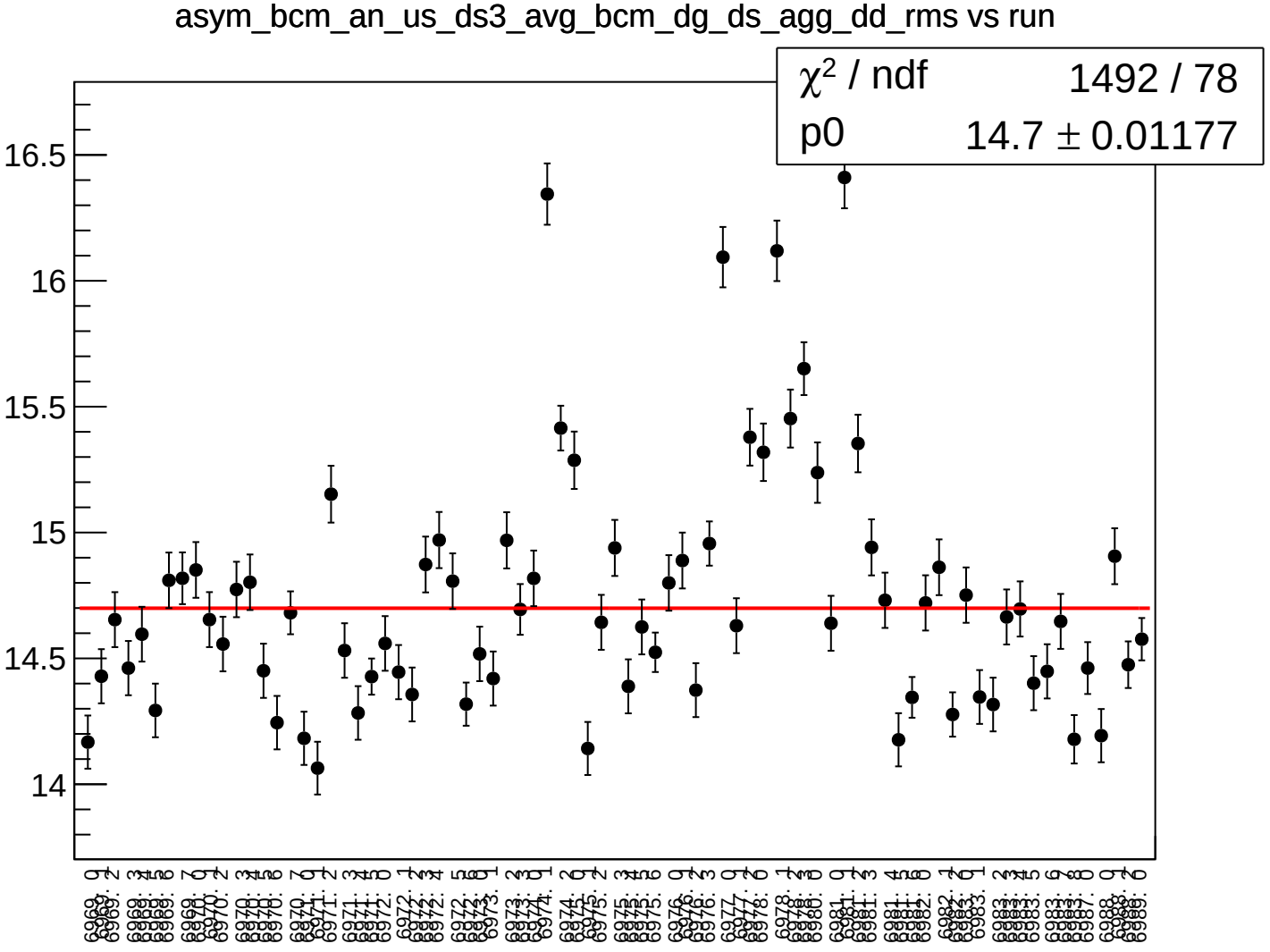

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.8 / 78
p0 −23.54 ± 24.27
pull
Entries 79
Mean 93.7
Std Dev 94.07

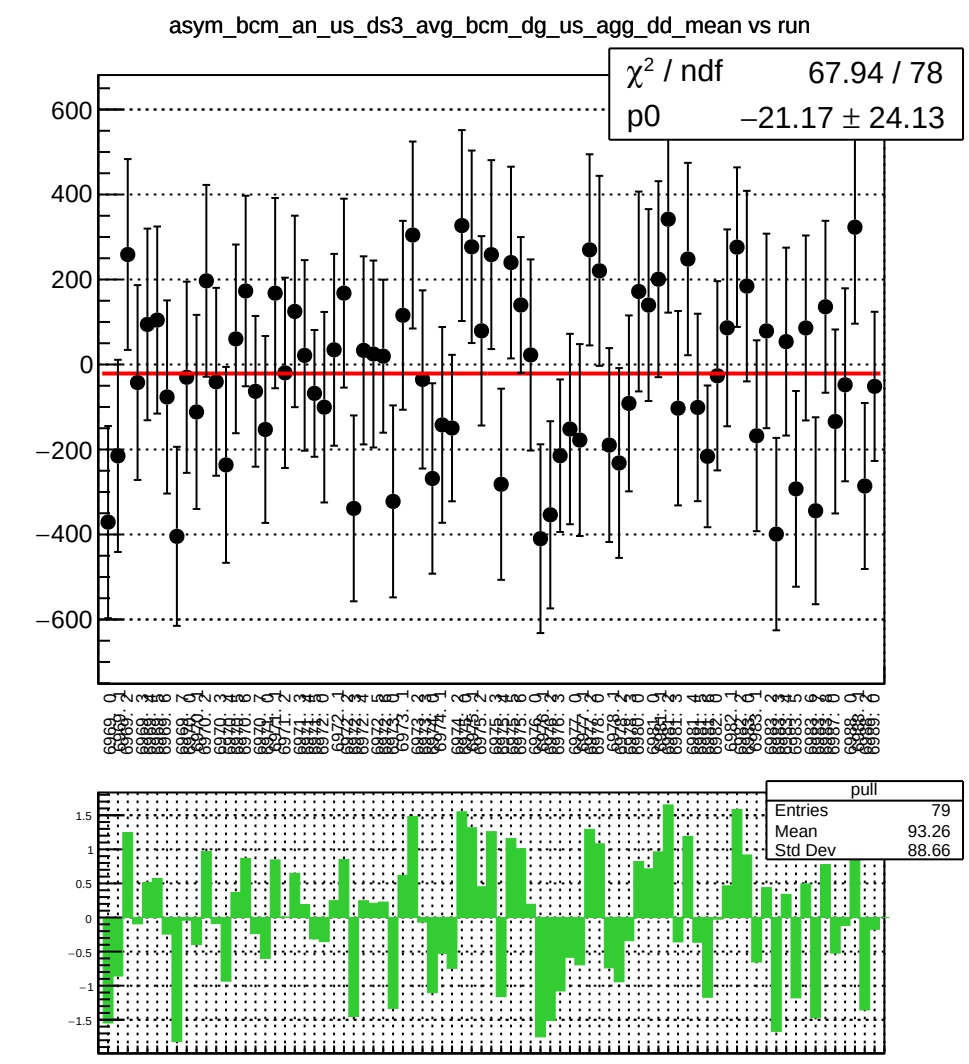

pull1D
Entries 79
Mean 0.008508
Std Dev 0.9264

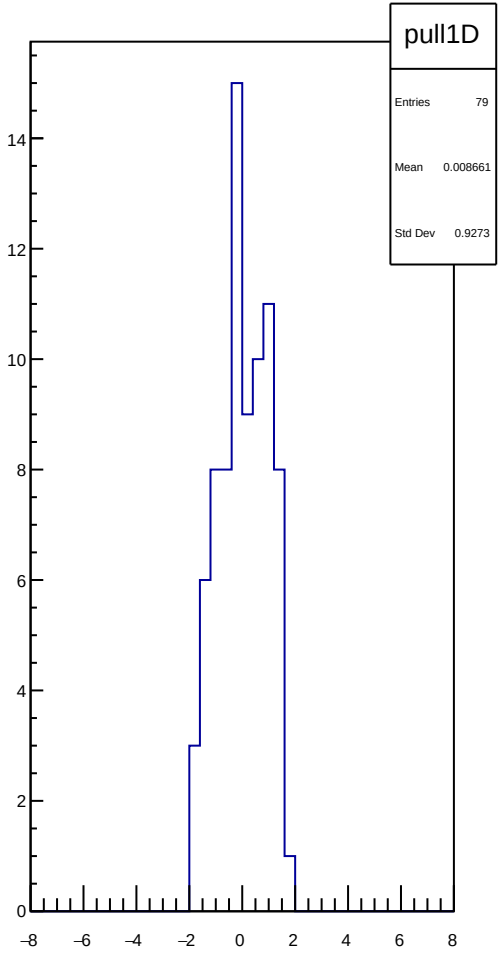

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 334.7 / 78
p0 21.44 ± 0.01716
22.5
22
21.5
21
20.5

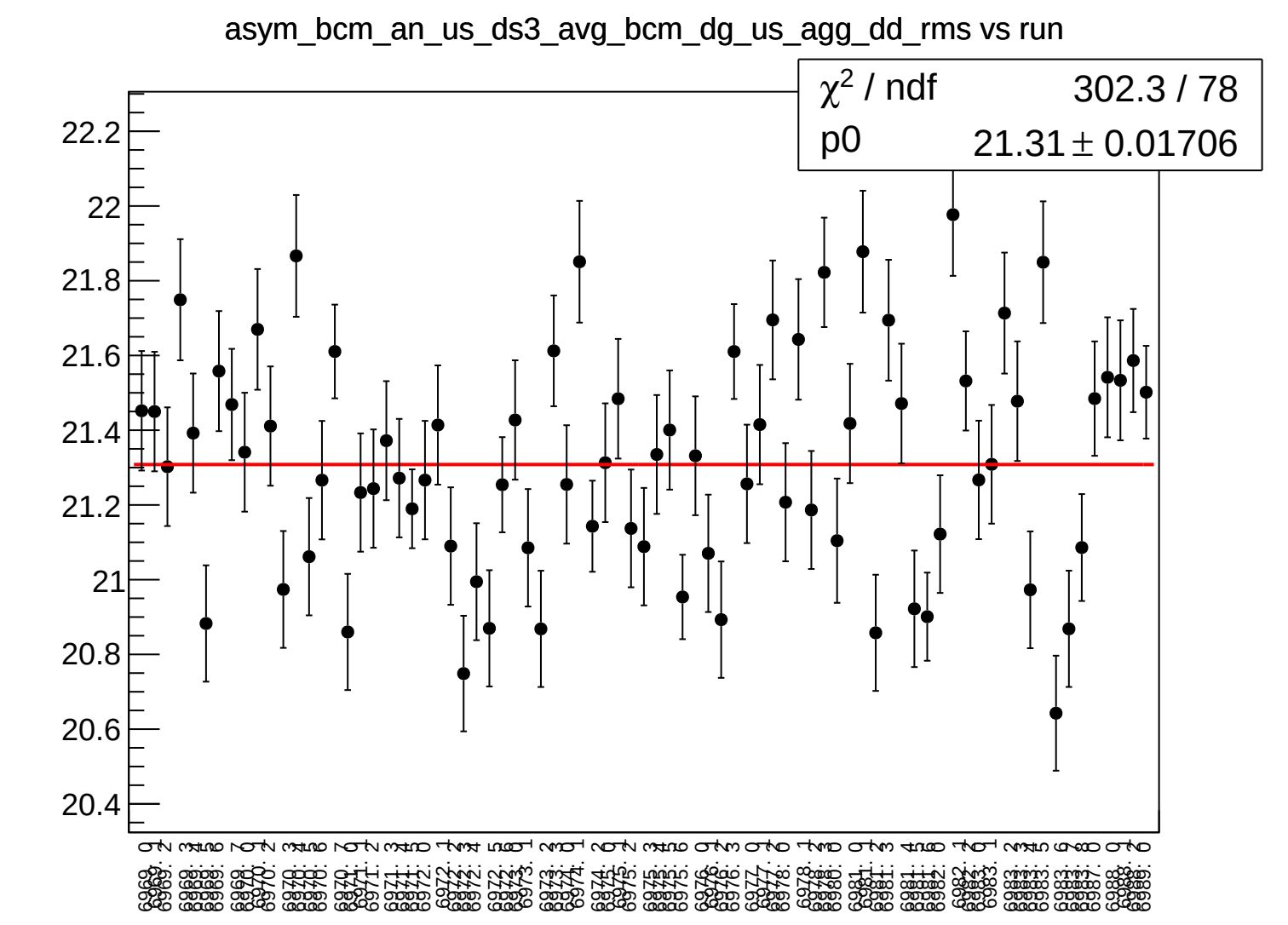

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.16 / 78
p0 1.187 ± 16.65
pull
Entries 79
Mean 522.6
Std Dev 488.6

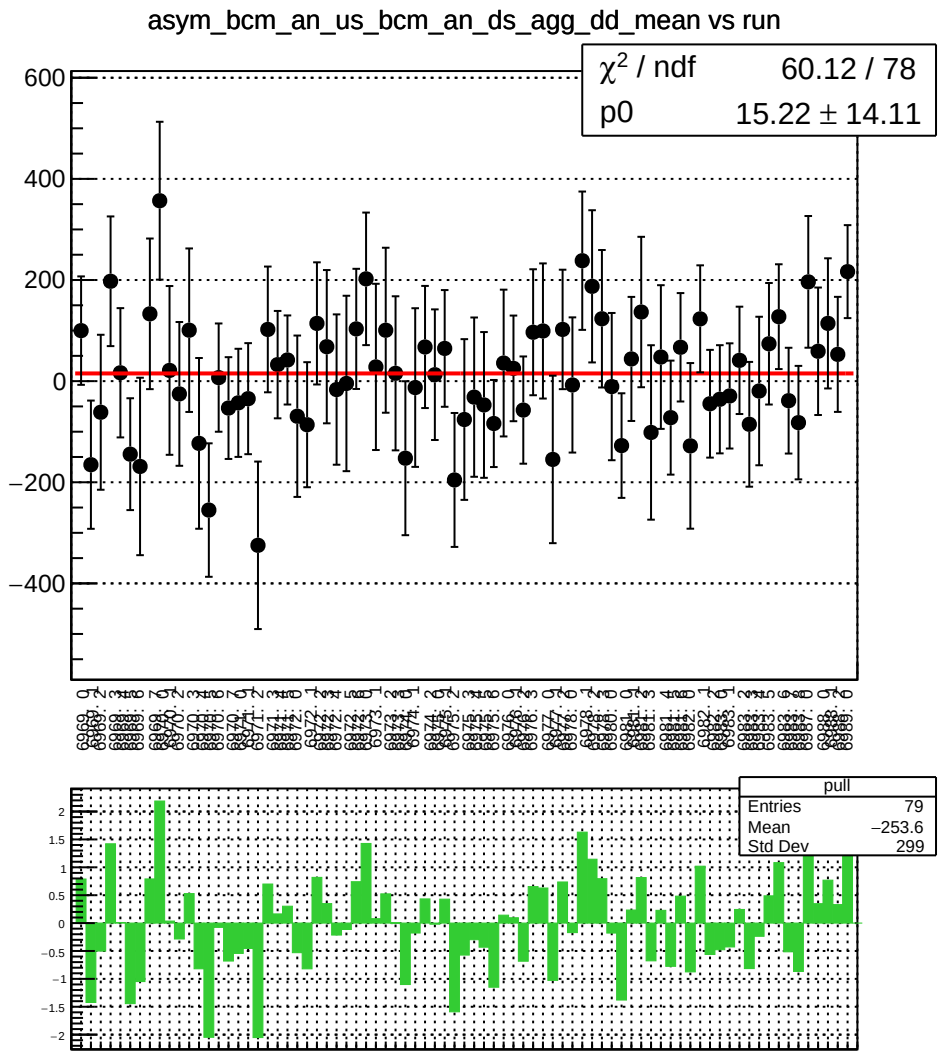

pull1D
Entries 79
Mean −0.007195
Std Dev 0.9883

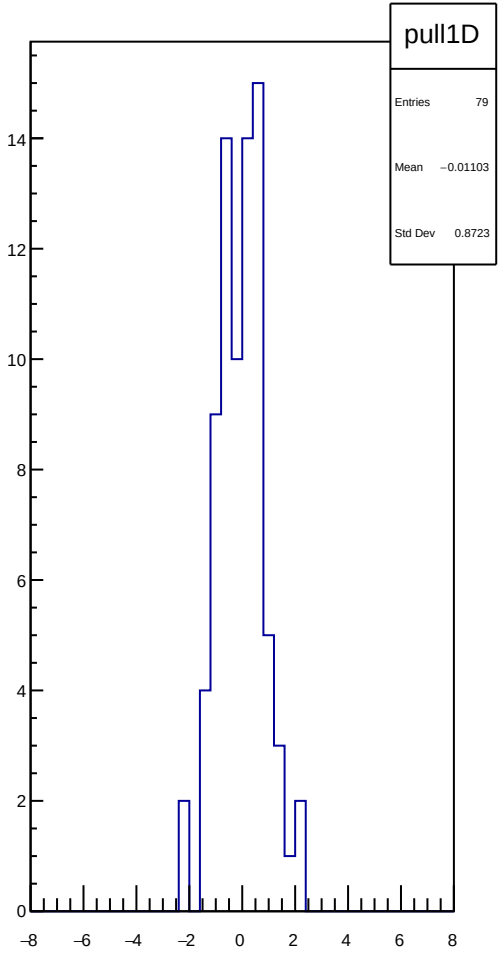

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1492 / 78
p0 14.7 ± 0.01177
16.5
16
15.5
15
14.5
14

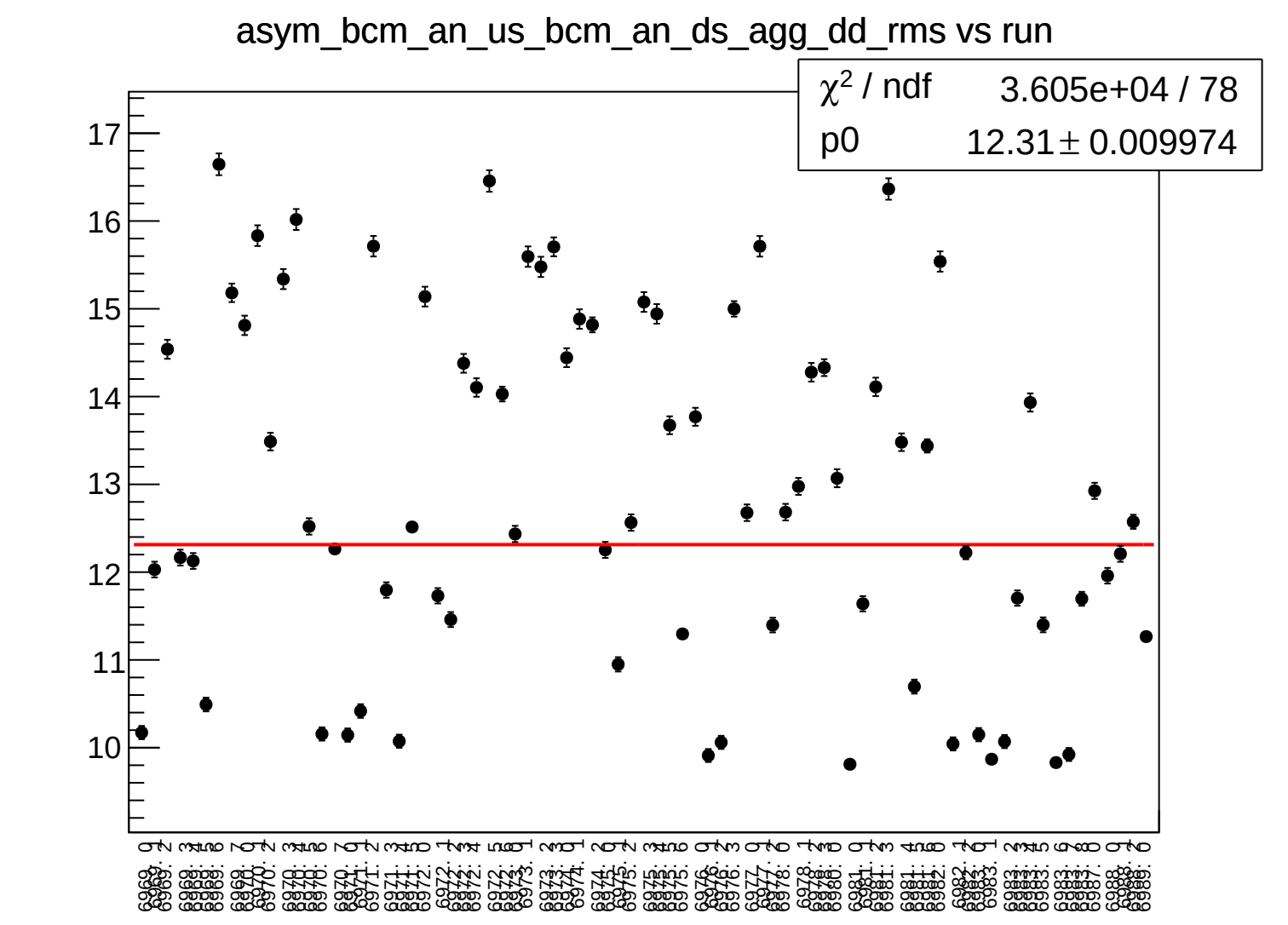

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 67.94 / 78
p0 −21.17 ± 24.13
pull
Entries 79
Mean 93.26
Std Dev 88.66

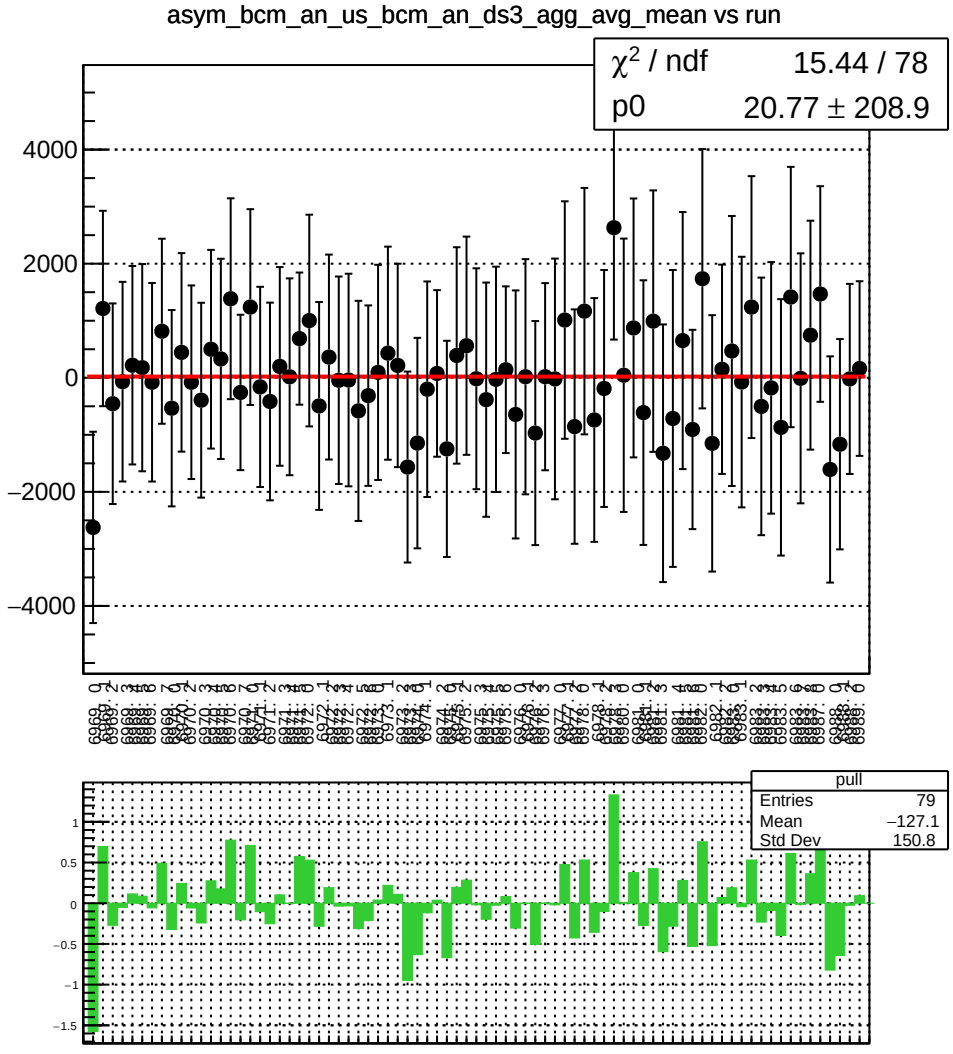

pull1D
Entries 79
Mean 0.008661
Std Dev 0.9273

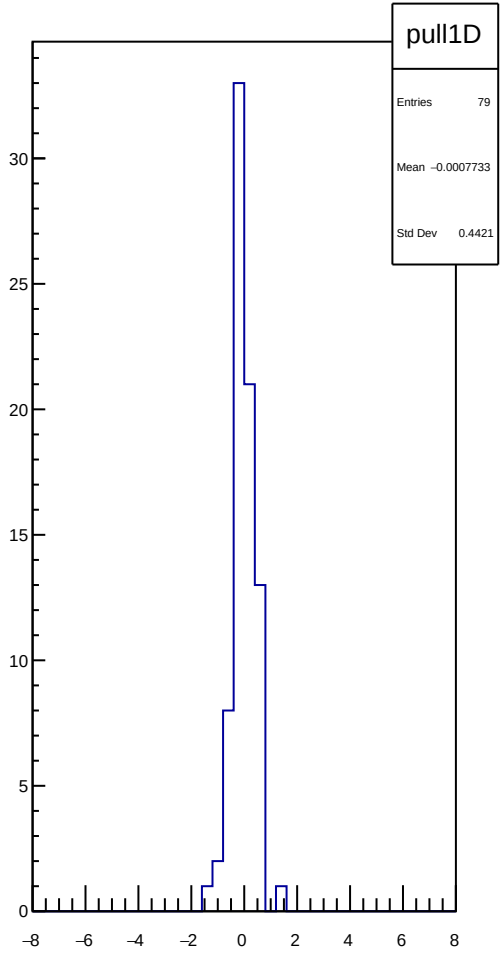

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 302.3 / 78
p0 21.31 ± 0.01706
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

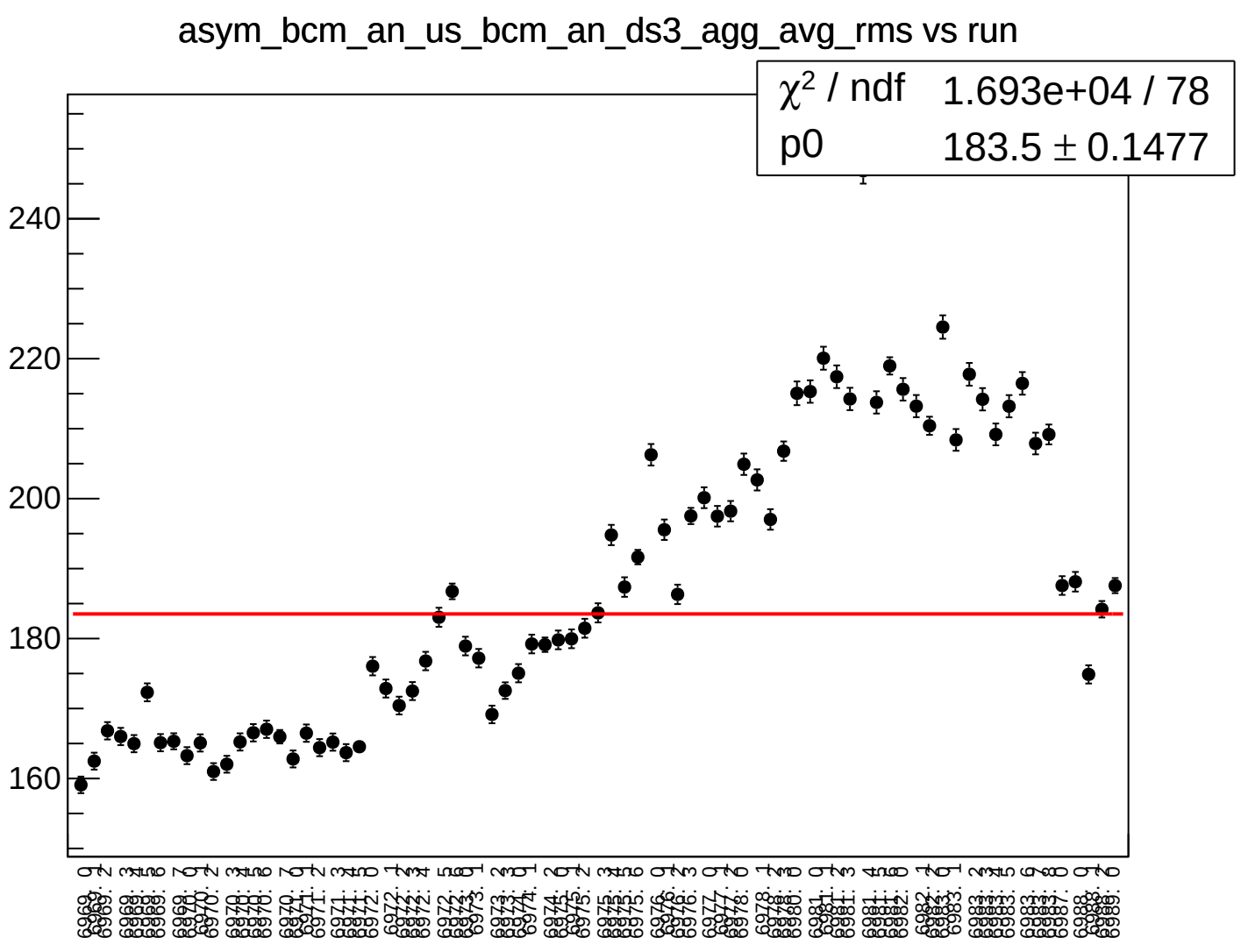

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 60.12 / 78
p0 15.22 ± 14.11
pull
Entries 79
Mean −253.6
Std Dev 299

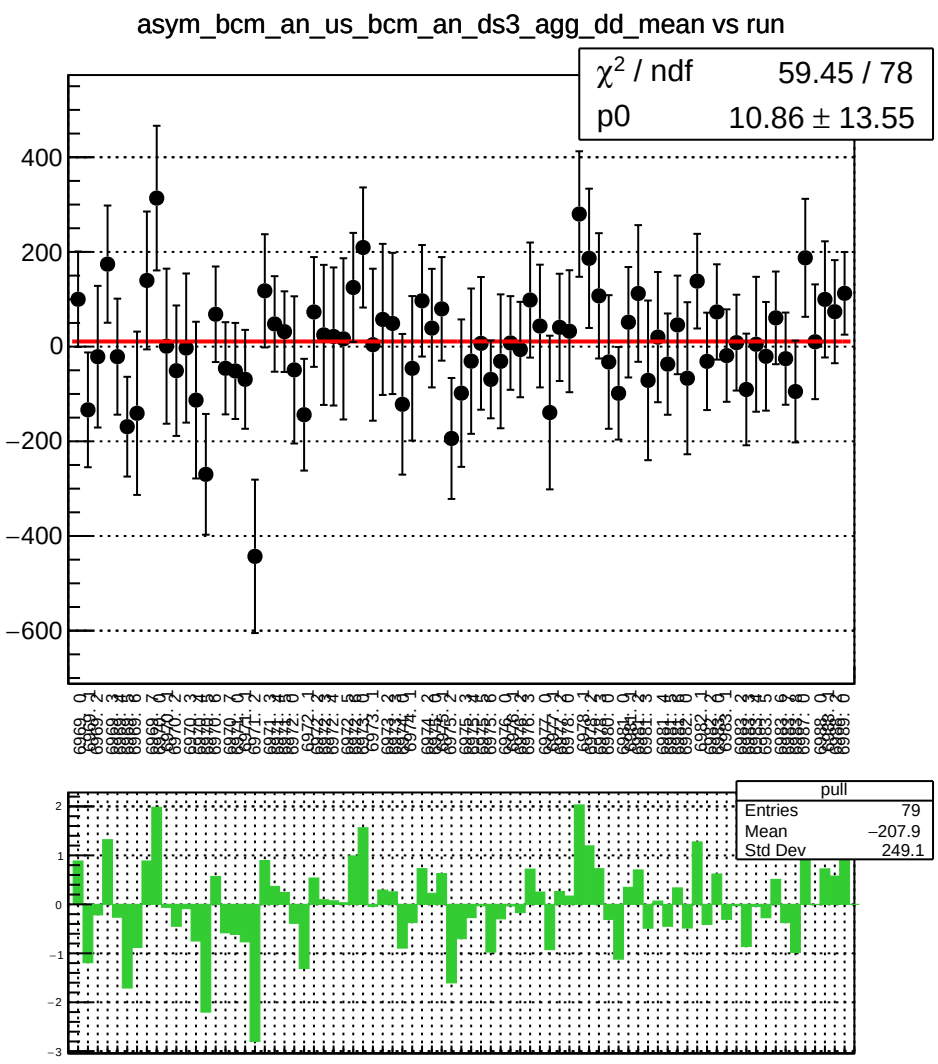

pull1D
Entries 79
Mean −0.01103
Std Dev 0.8723

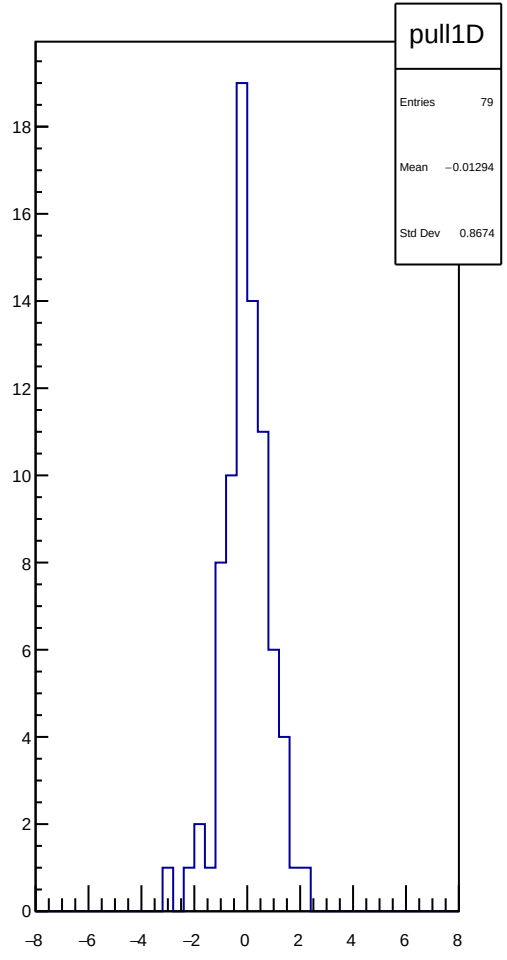

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3.605e+04 / 78
p0 12.31 ± 0.009974
17
16
15
14
13
12
11
10

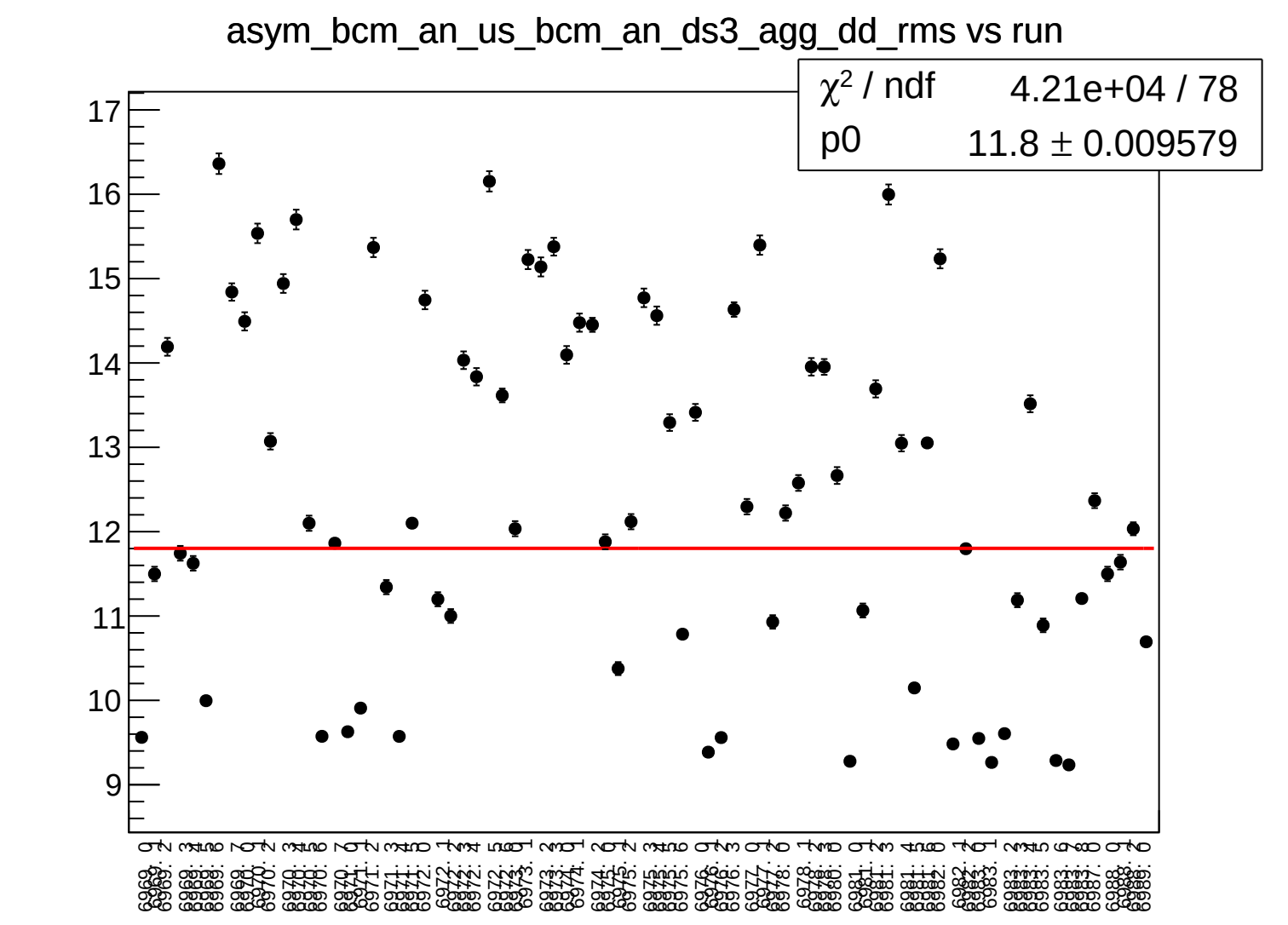

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 15.44 / 78
p0 20.77 ± 208.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −127.1
Std Dev 150.8
1
0.5
0
−0.5
−1
−1.5

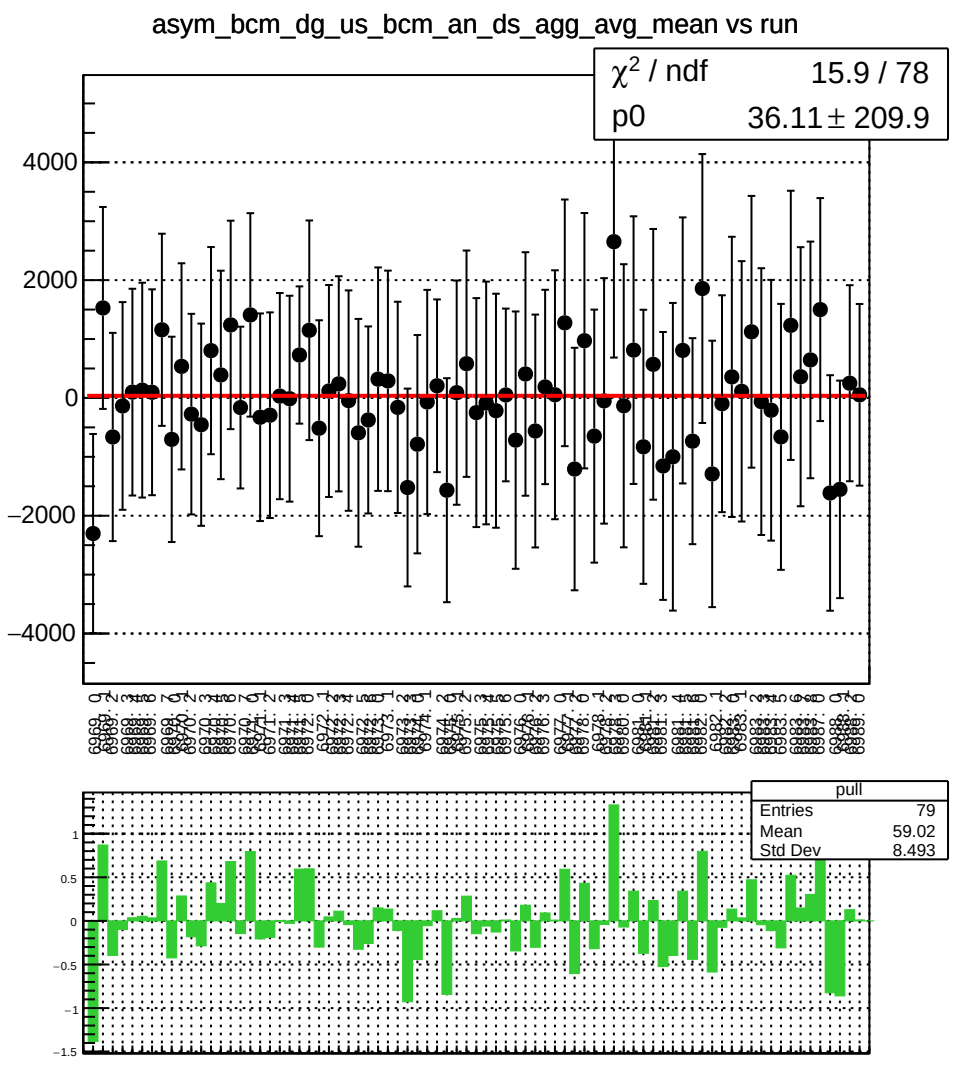

pull1D
Entries 79
Mean −0.0007733
Std Dev 0.4421
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

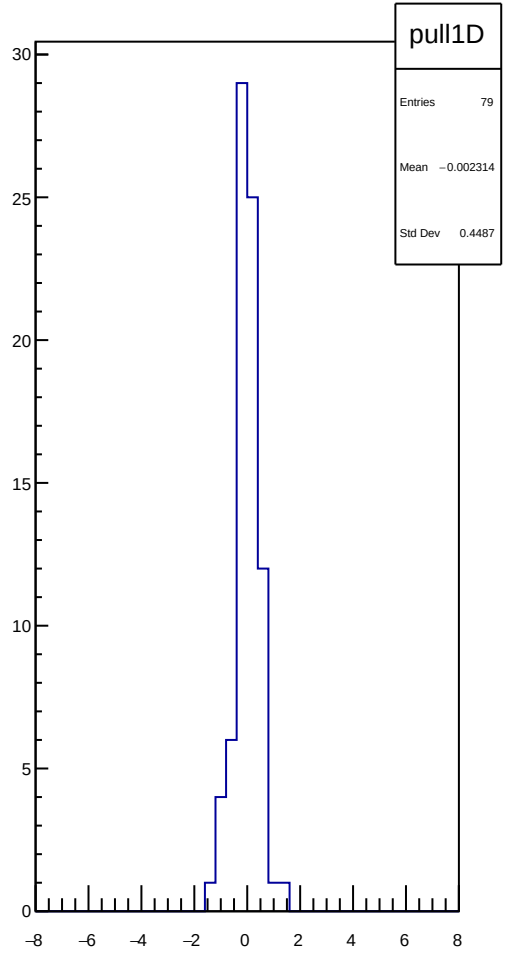

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.693e+04 / 78
p0 183.5 ± 0.1477
240
220
200
180
160

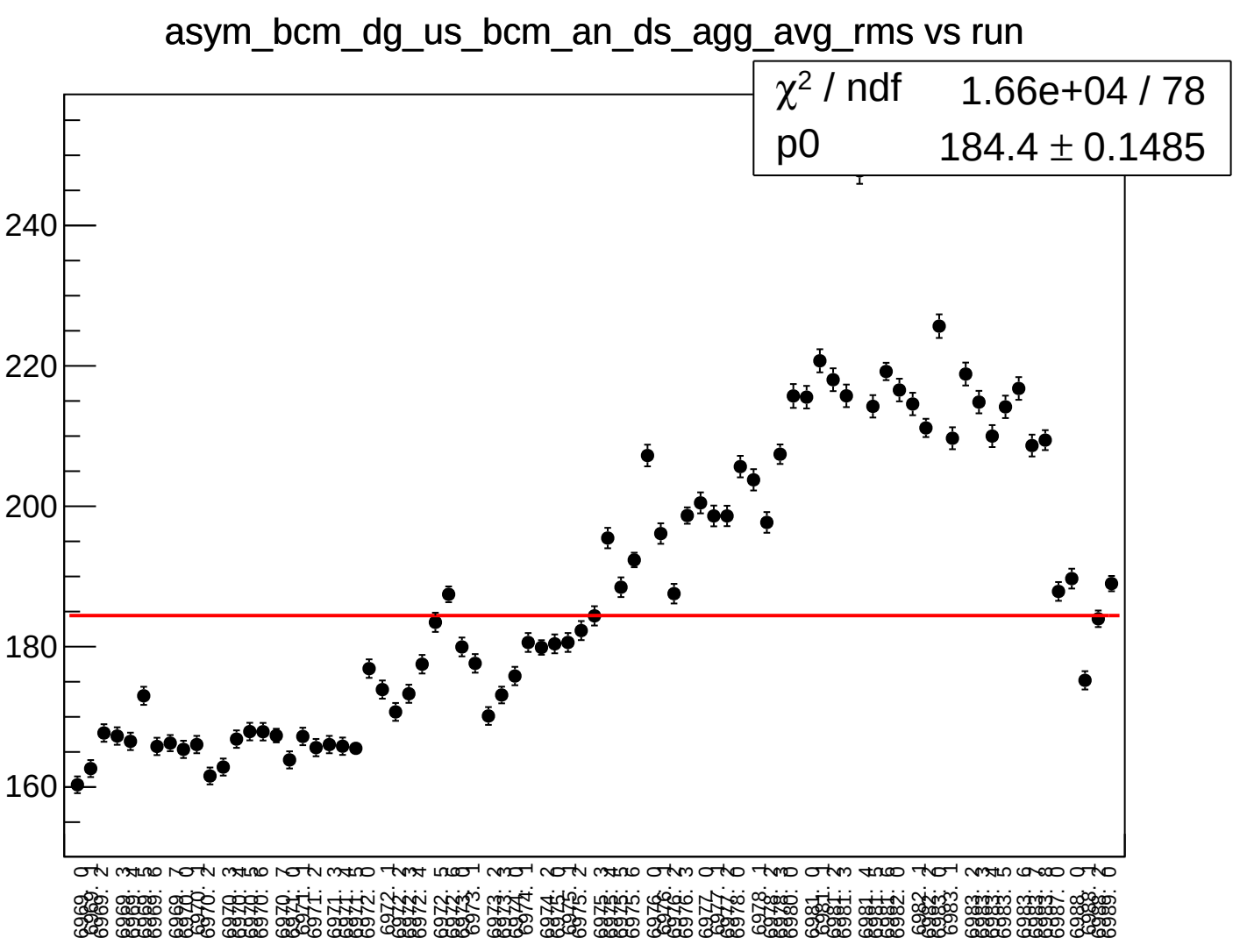

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 59.45 / 78
p0 10.86 ± 13.55
400
200
0
−200
−400
−600
pull
Entries 79
Mean −207.9
Std Dev 249.1
2
1
0
−1
−2
−3

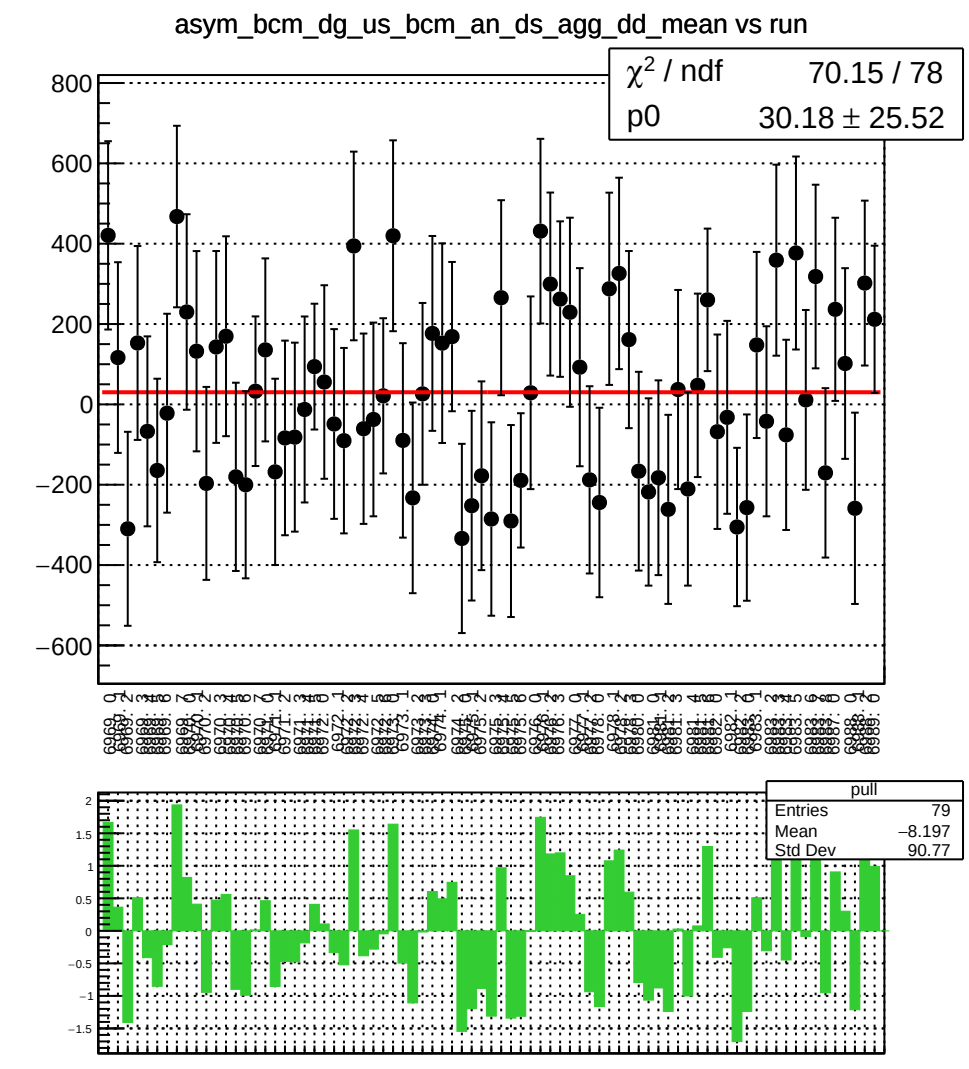

pull1D
Entries 79
Mean −0.01294
Std Dev 0.8674
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

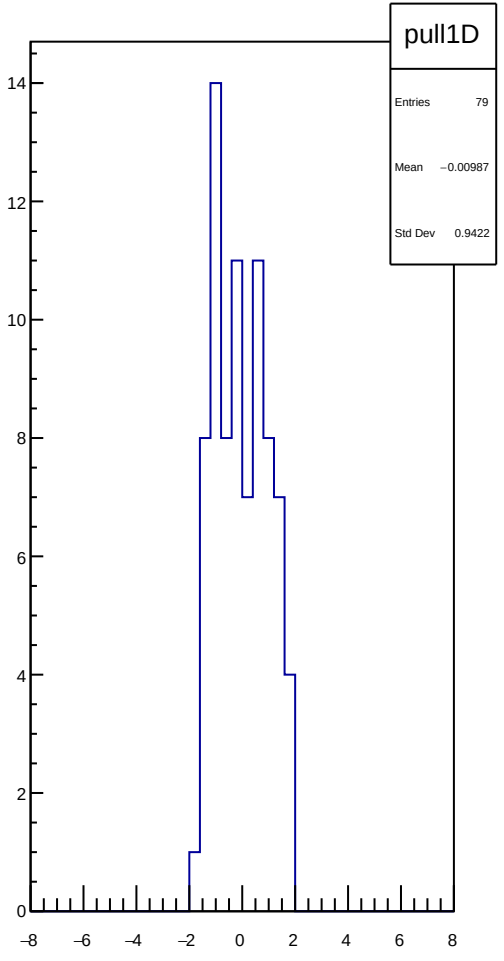

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 4.21e+04 / 78
p0 11.8 ± 0.009579
17
16
15
14
13
12
11
10
9

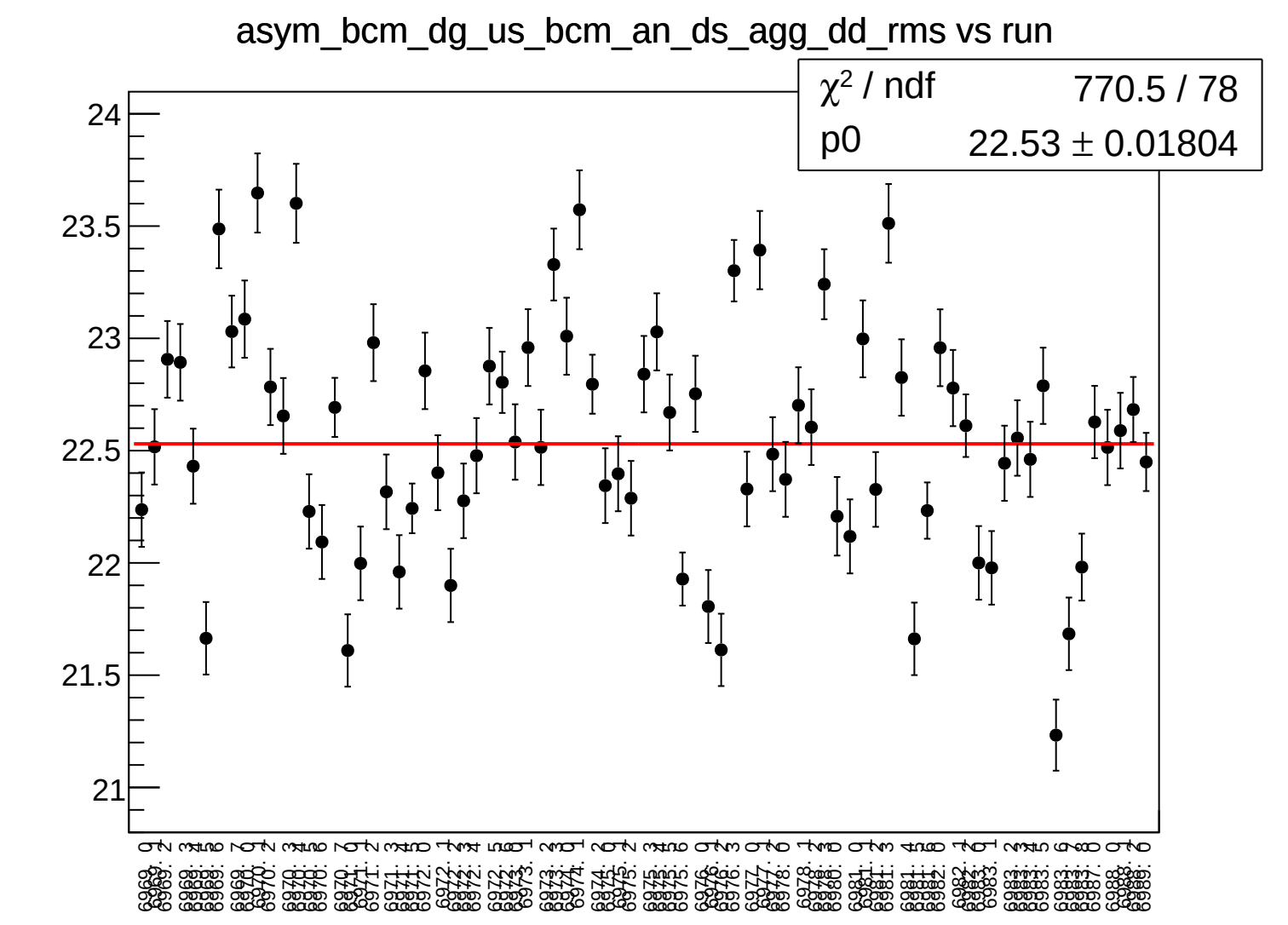

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.9 / 78
p0 36.11 ± 209.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 59.02
Std Dev 8.493
1
0.5
0
−0.5
−1
−1.5

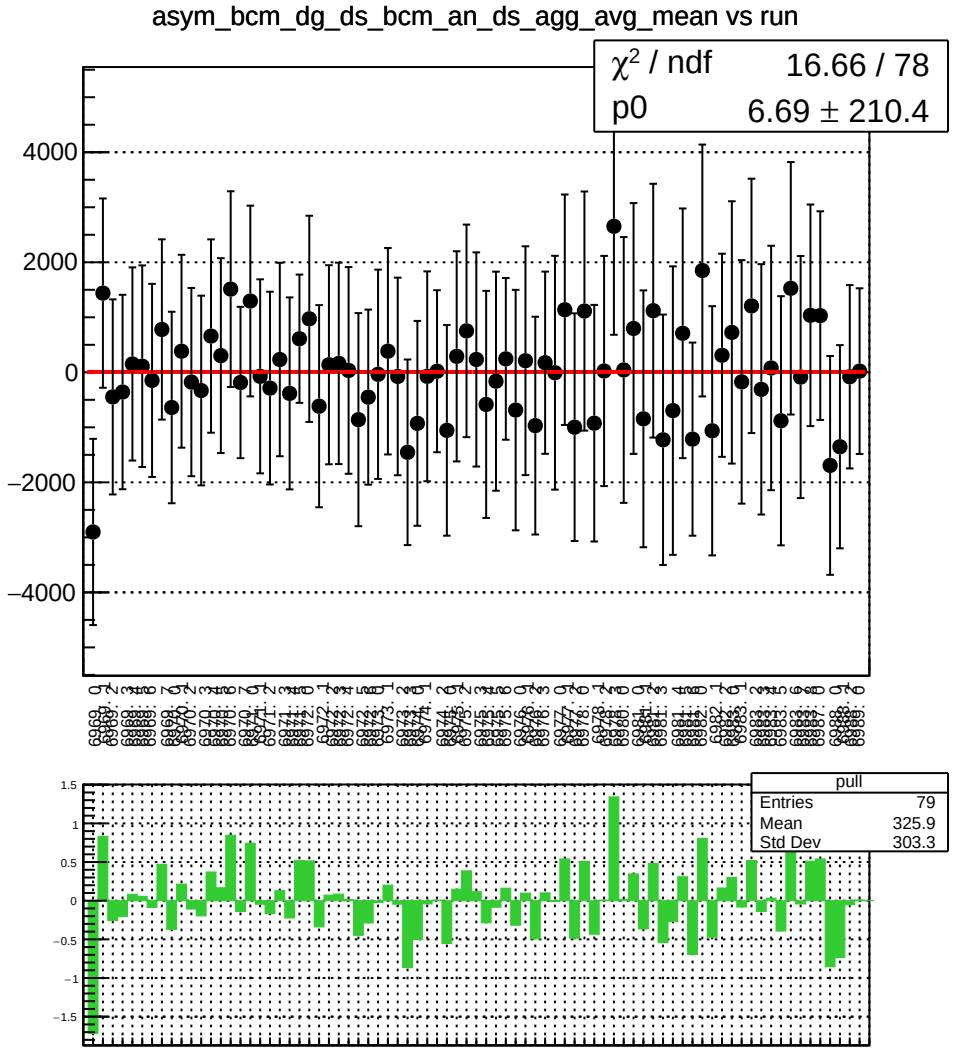

pull1D
Entries 79
Mean −0.002314
Std Dev 0.4487
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

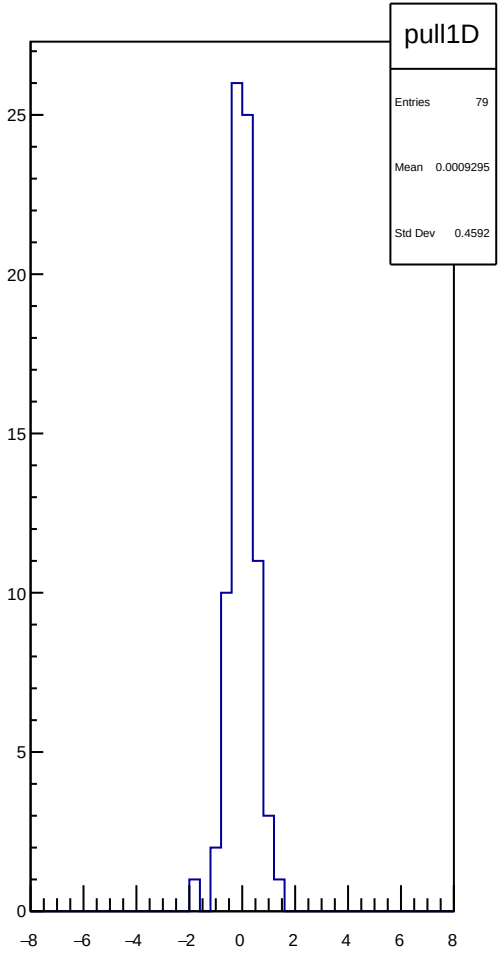

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.66e+04 / 78
p0 184.4 ± 0.1485
240
220
200
180
160

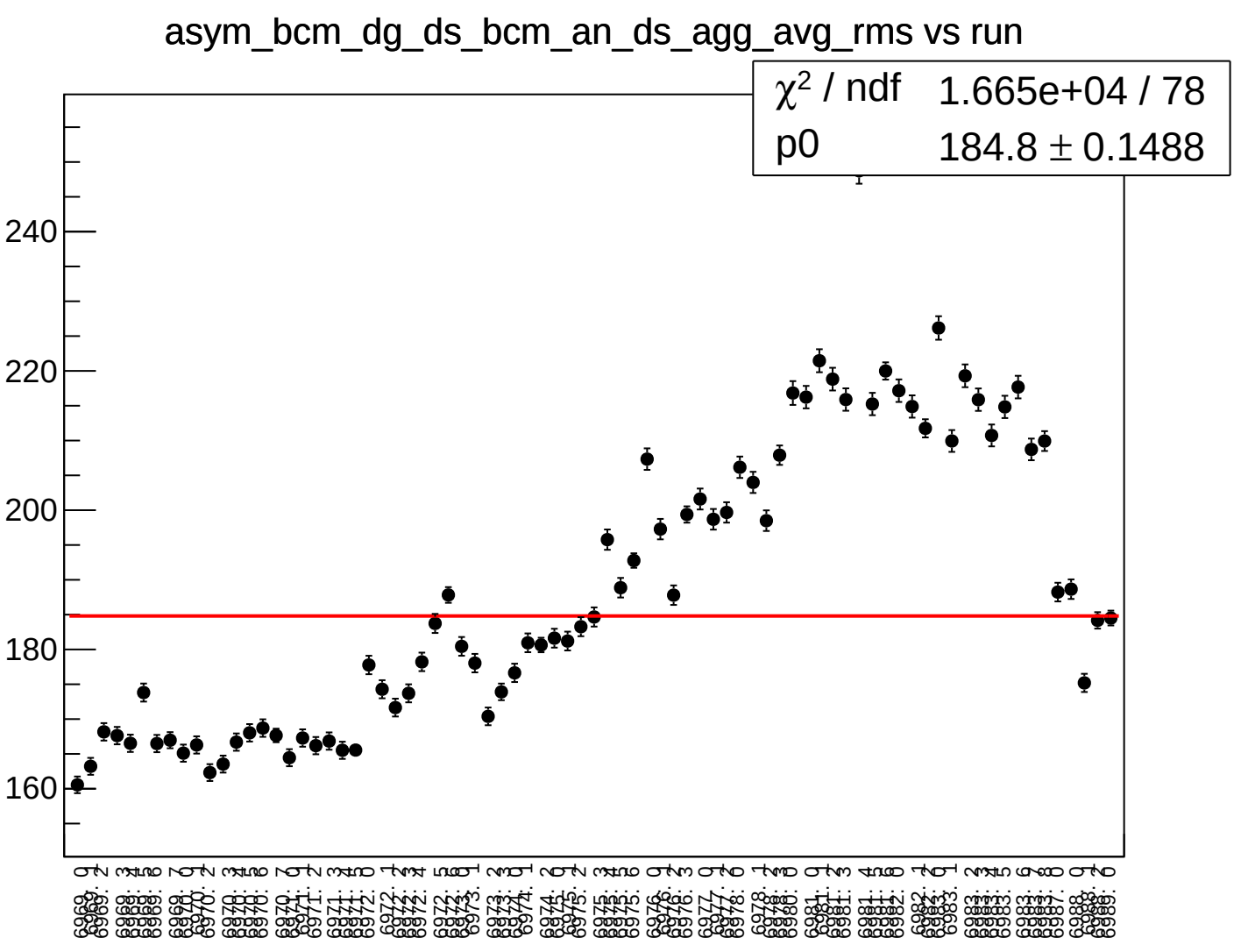

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.15 / 78
p0 30.18 ± 25.52
pull
Entries 79
Mean −8.197
Std Dev 90.77

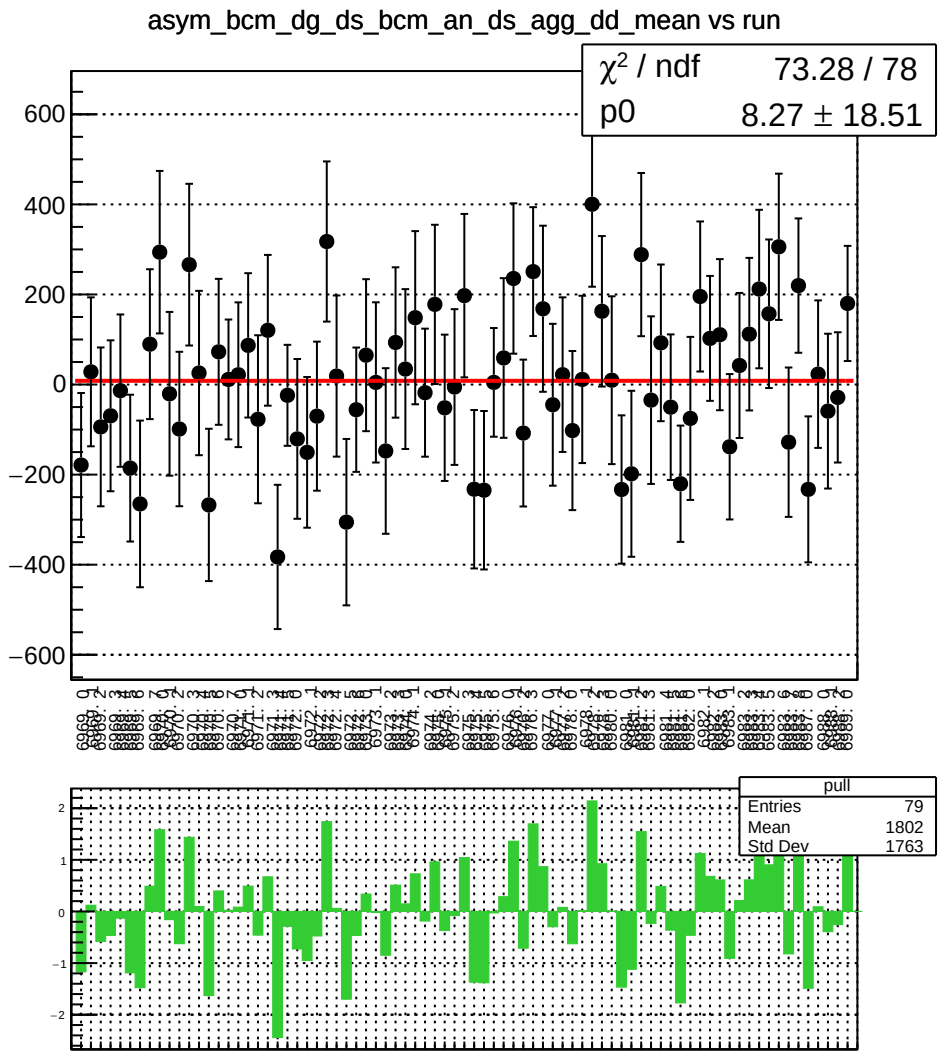

pull1D
Entries 79
Mean −0.00987
Std Dev 0.9422

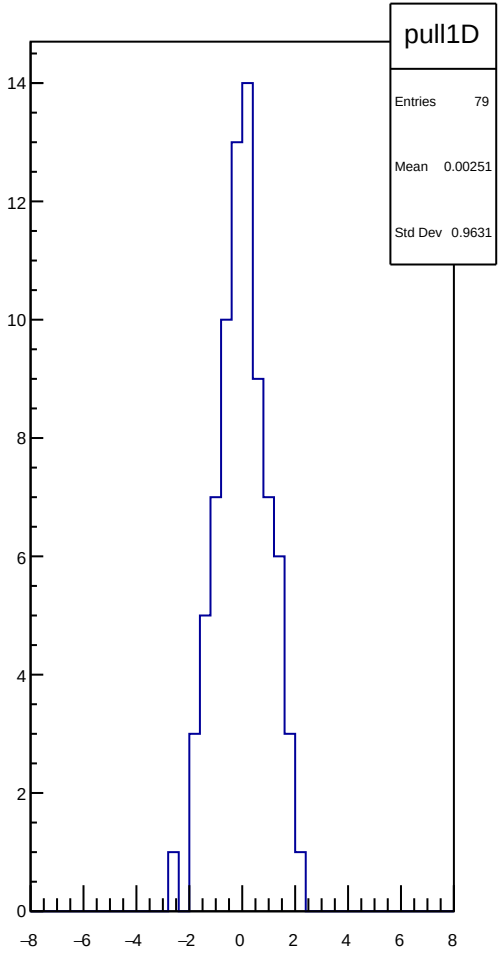

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 770.5 / 78
p0 22.53 ± 0.01804
24
23.5
23
22.5
22
21.5
21

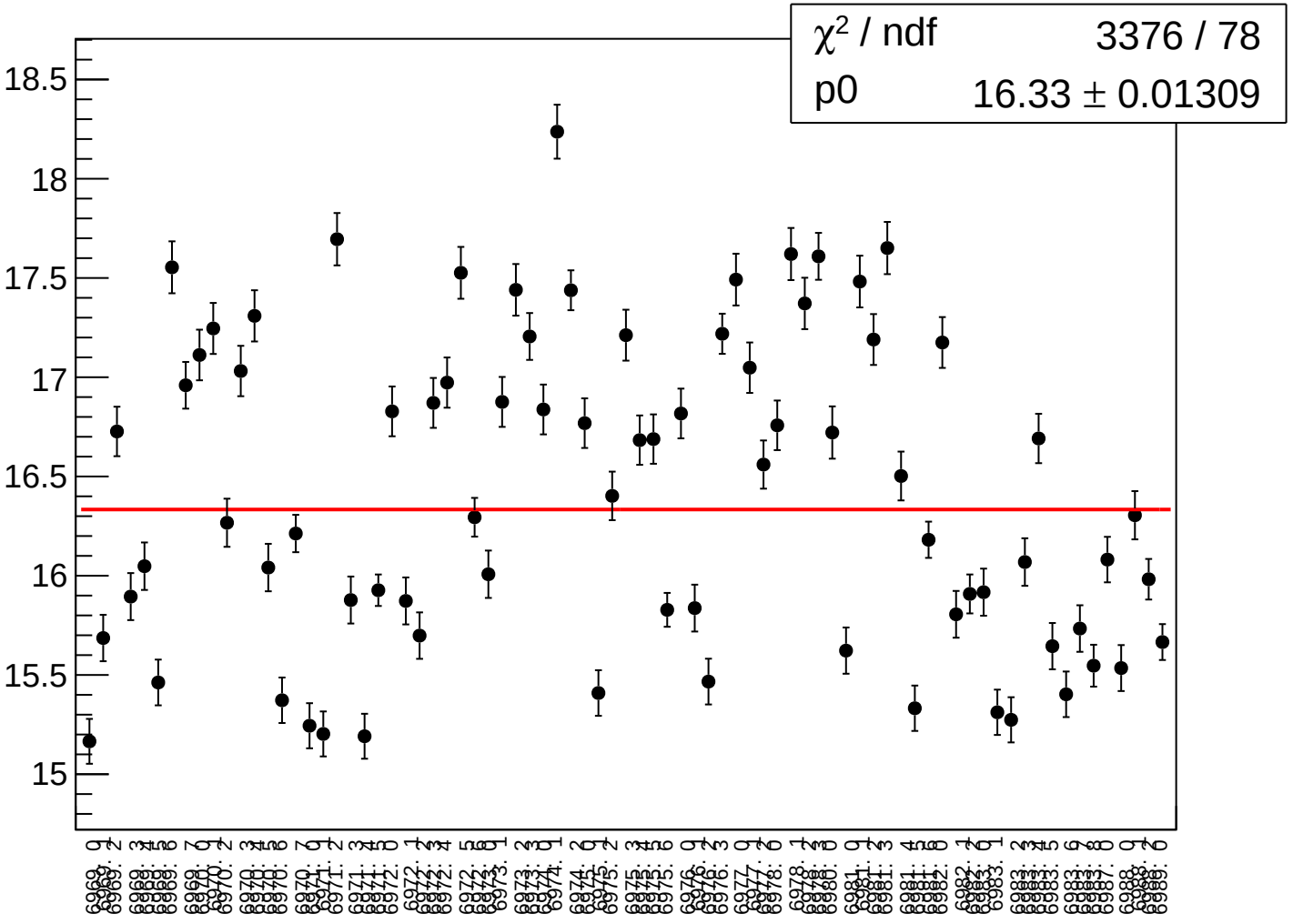

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 16.66 / 78
p0 6.69 ± 210.4
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 325.9
Std Dev 303.3
1.5
1
0.5
0
−0.5
−1
−1.5

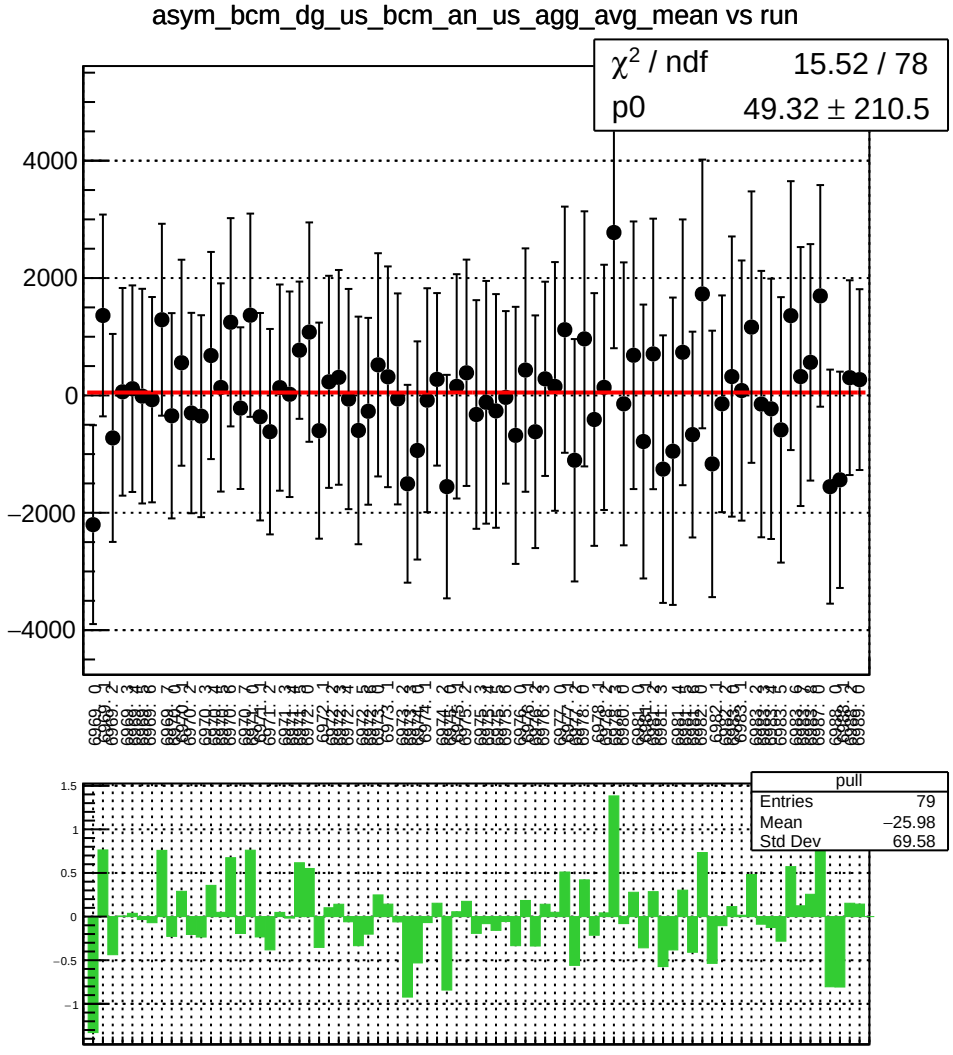

pull1D
Entries 79
Mean 0.0009295
Std Dev 0.4592
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

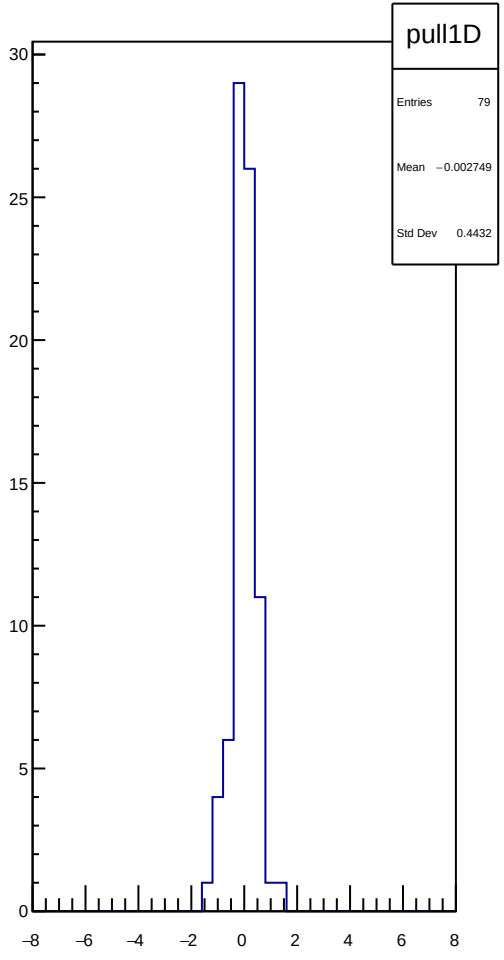

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.665e+04 / 78
p0 184.8 ± 0.1488
240
220
200
180
160

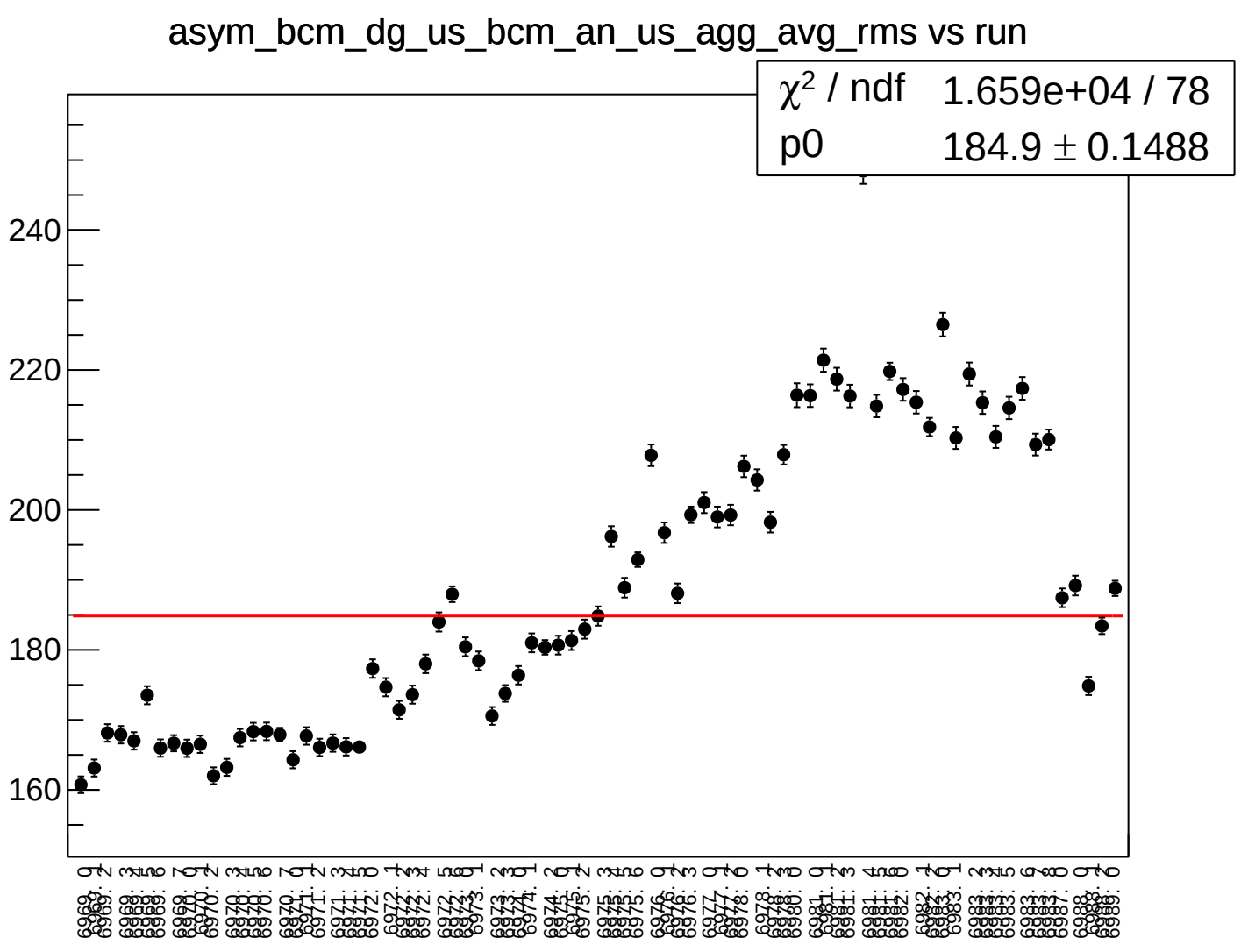

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 73.28 / 78
p0 8.27 ± 18.51
pull
Entries 79
Mean 1802
Std Dev 1763

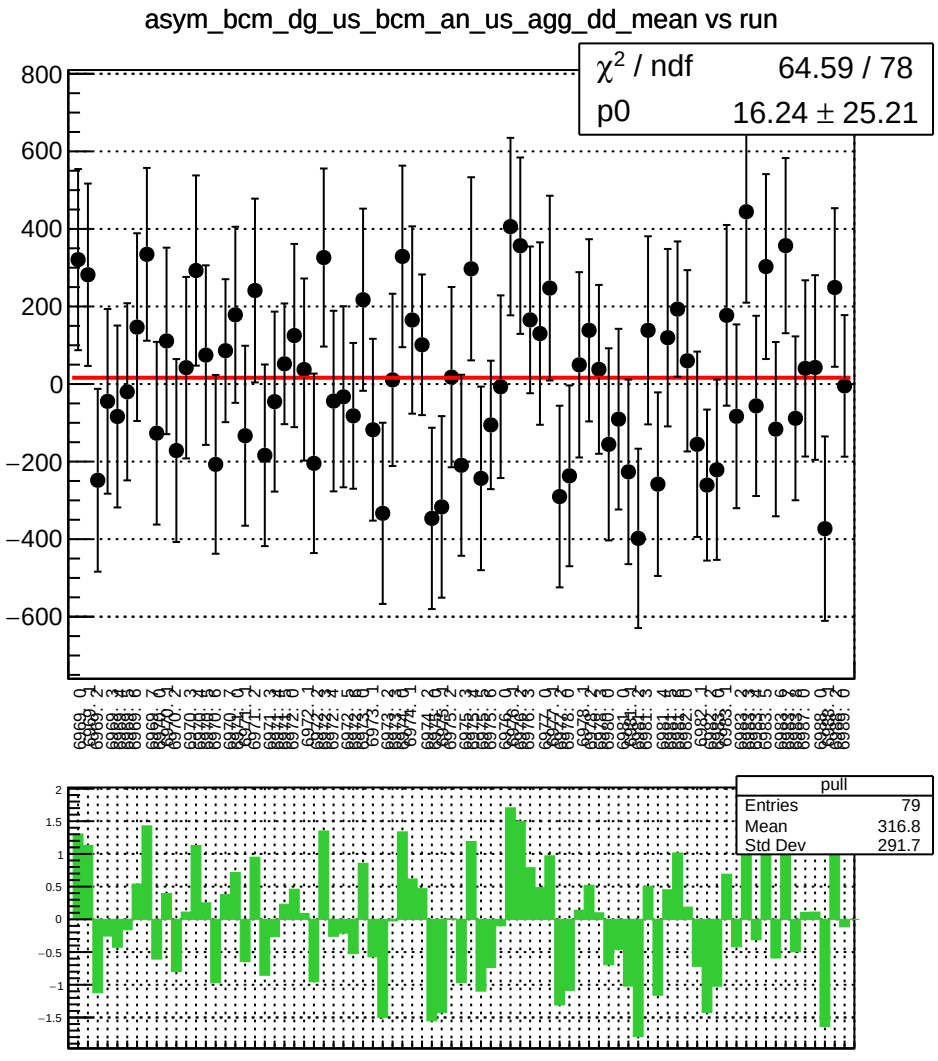

pull1D
Entries 79
Mean 0.00251
Std Dev 0.9631

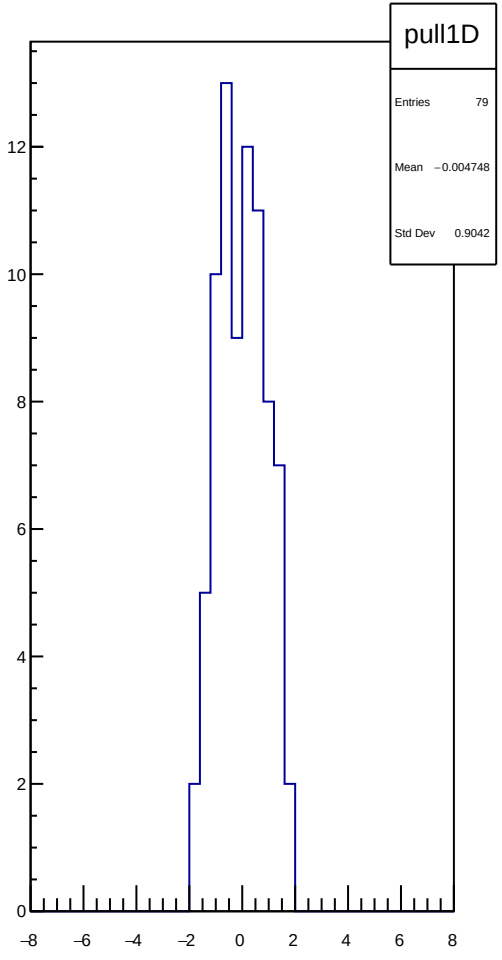

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3376 / 78
p0 16.33 ± 0.01309
18.5
18
17.5
17
16.5
16
15.5
15

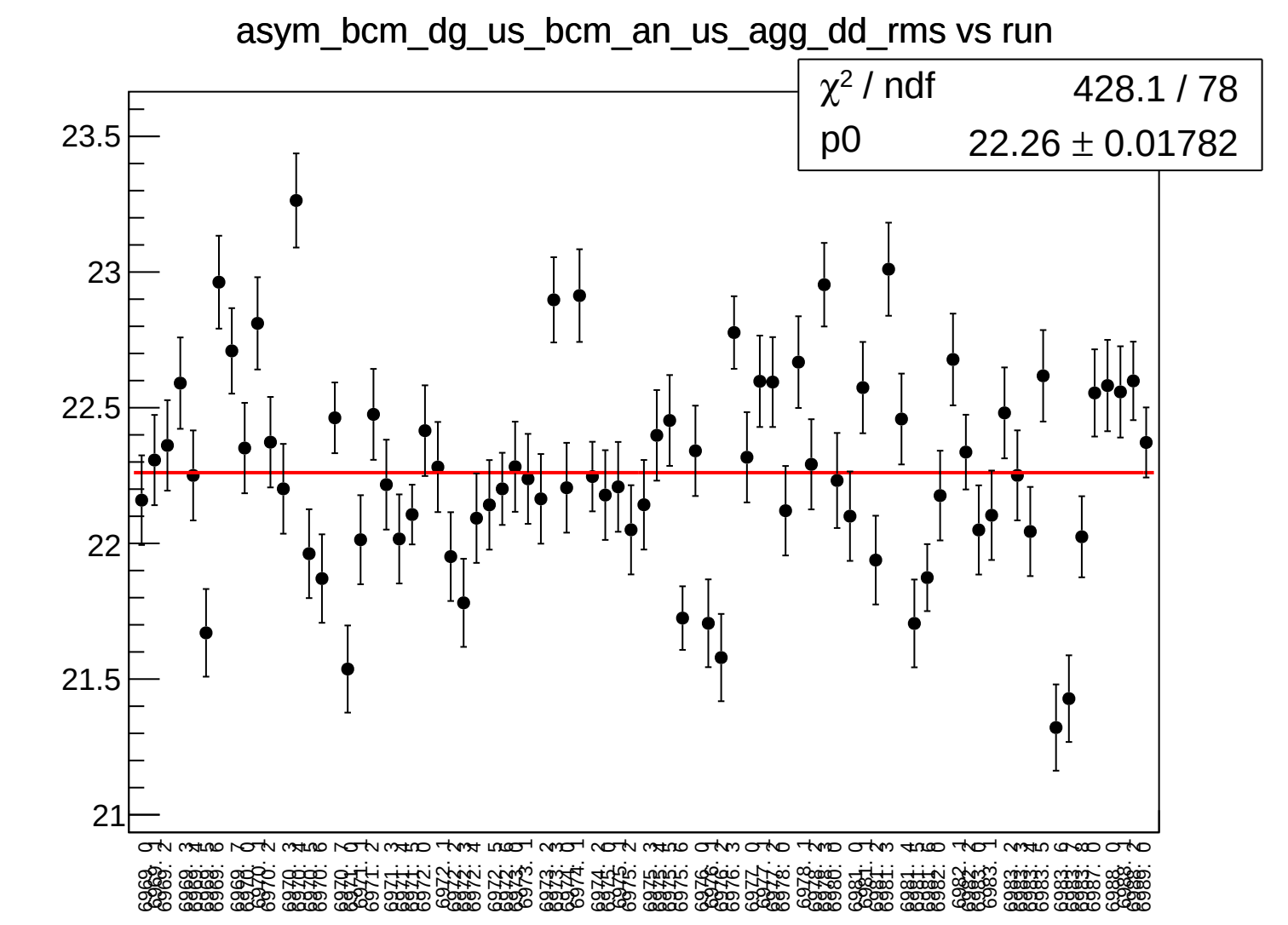

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.52 / 78
p0 49.32 ± 210.5
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −25.98
Std Dev 69.58
1.5
1
0.5
0
−0.5
−1

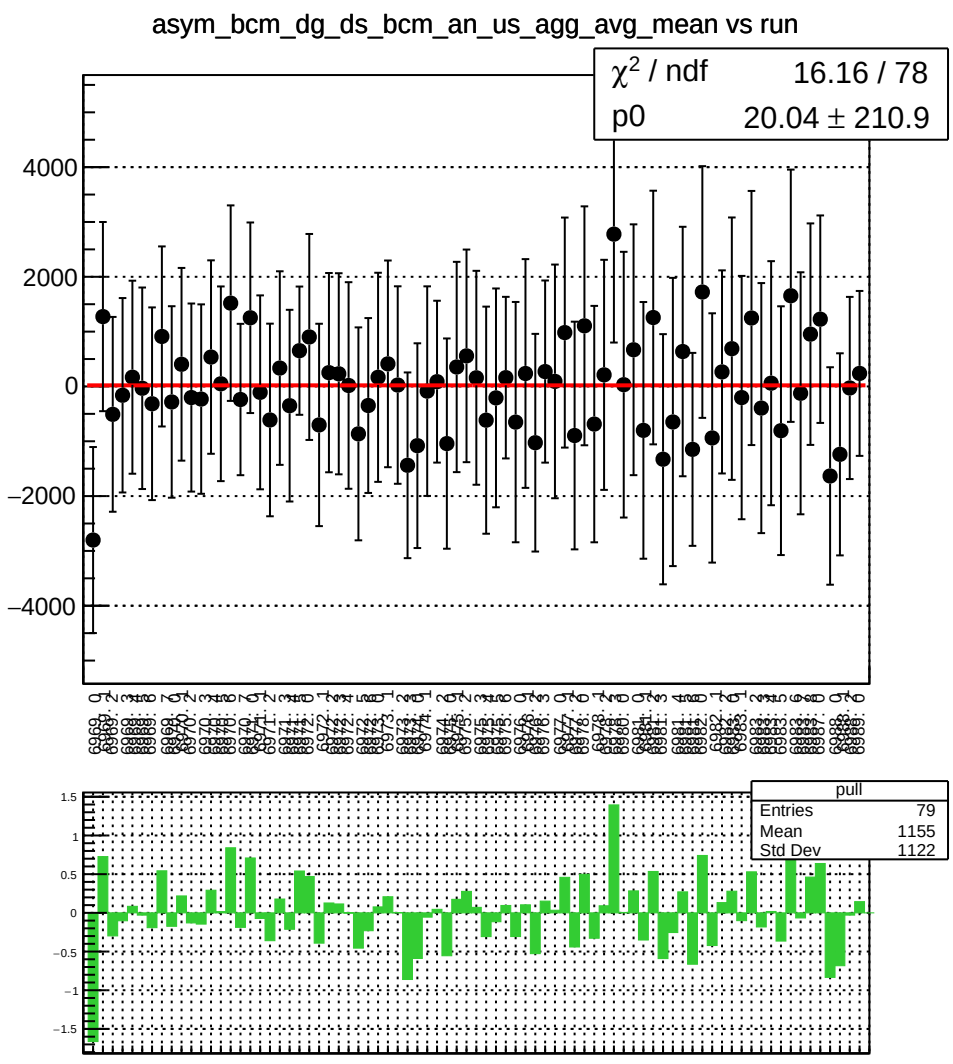

pull1D
Entries 79
Mean −0.002749
Std Dev 0.4432
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

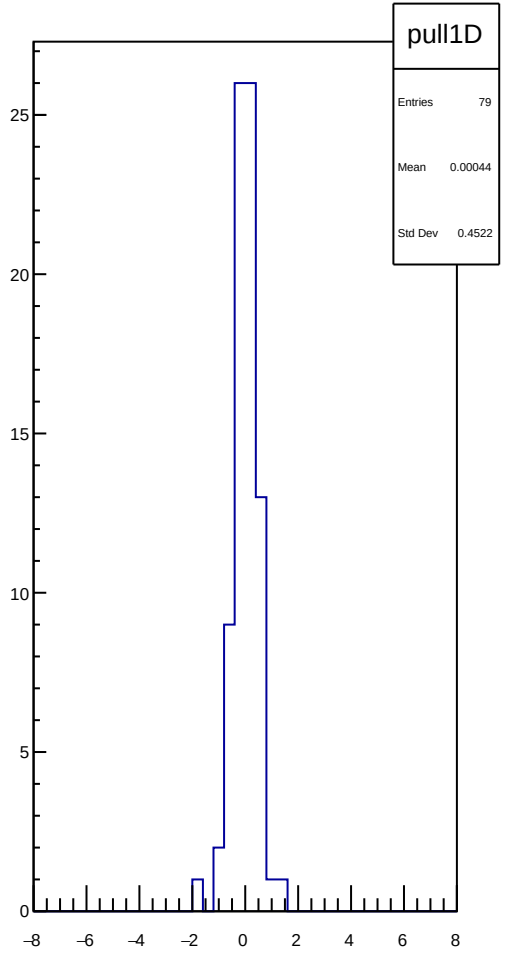

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.659e+04 / 78
p0 184.9 ± 0.1488
240
220
200
180
160

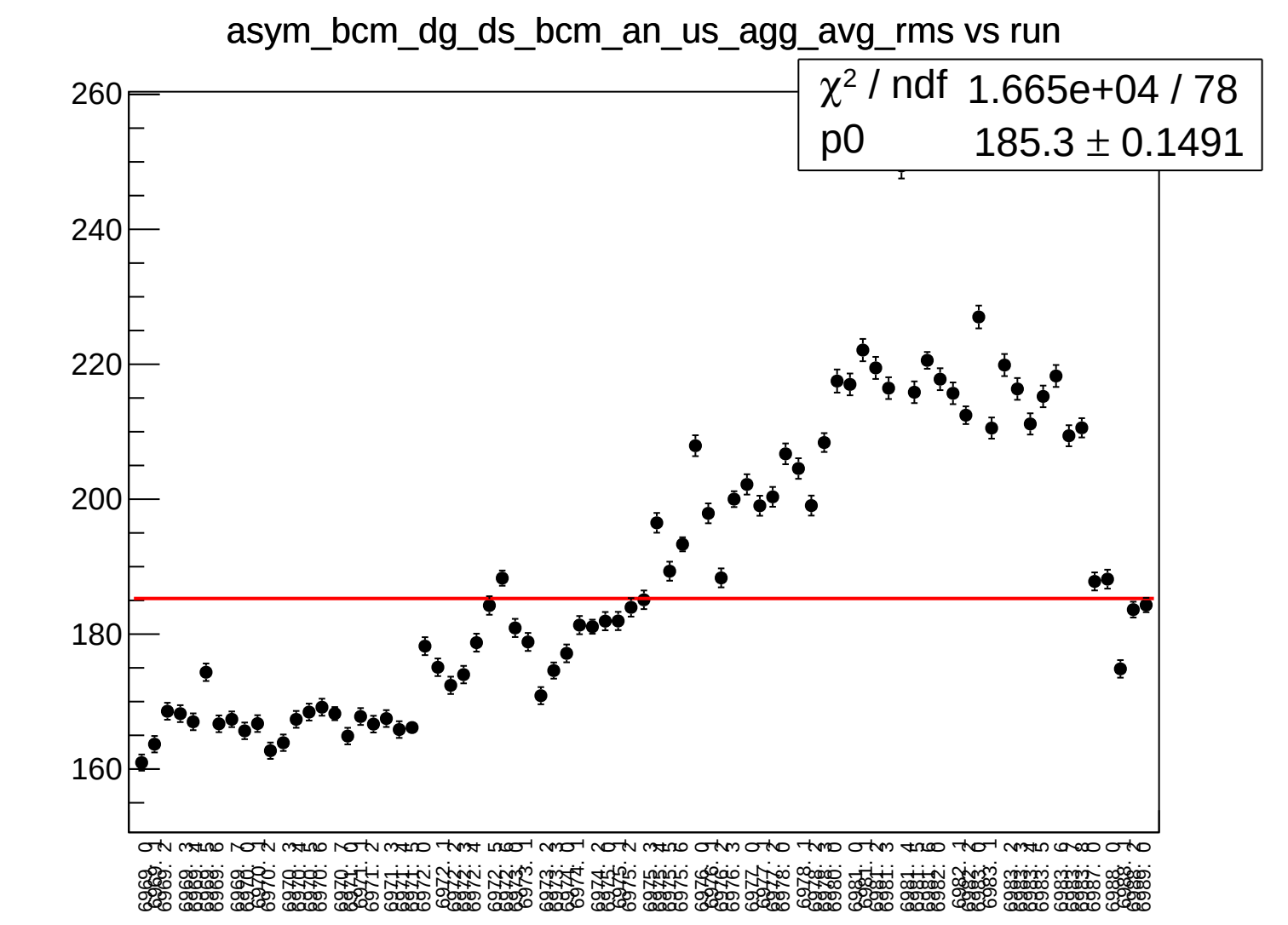

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 64.59 / 78
p0 16.24 ± 25.21
pull
Entries 79
Mean 316.8
Std Dev 291.7

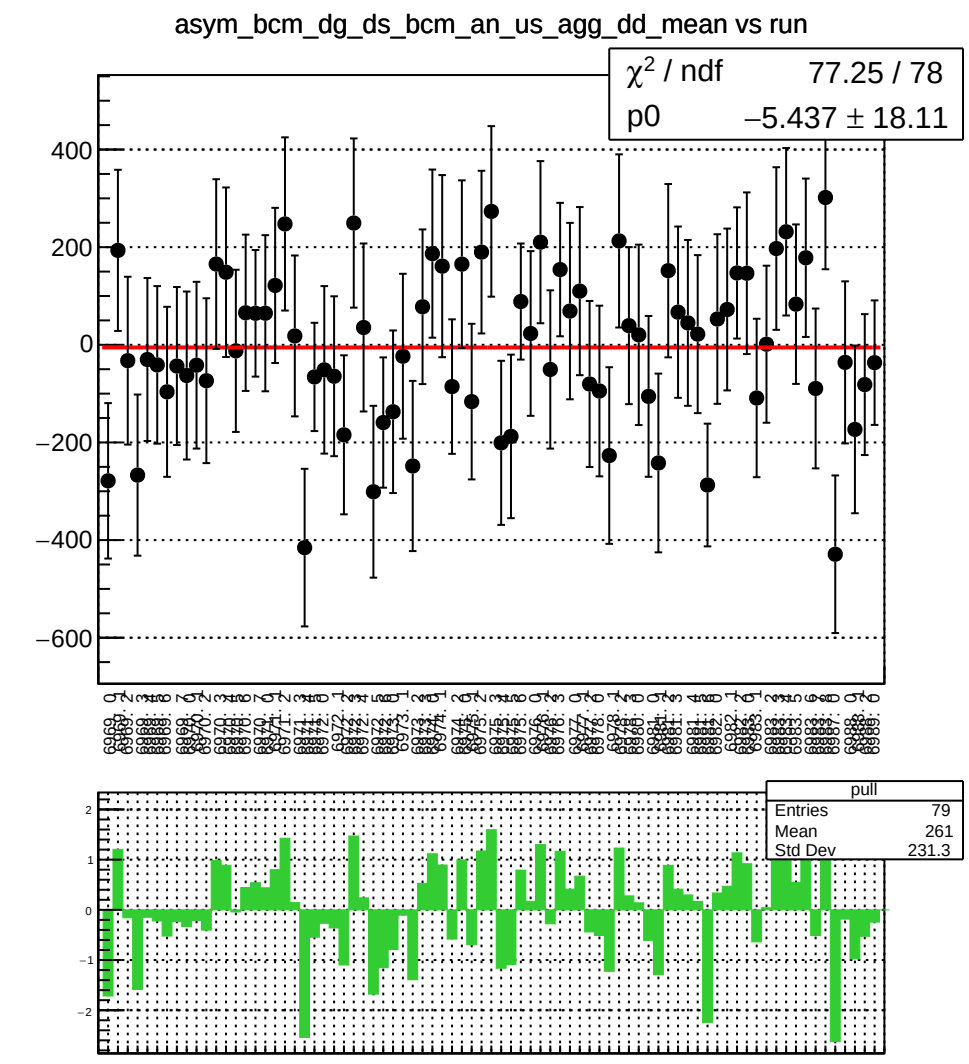

pull1D
Entries 79
Mean −0.004748
Std Dev 0.9042

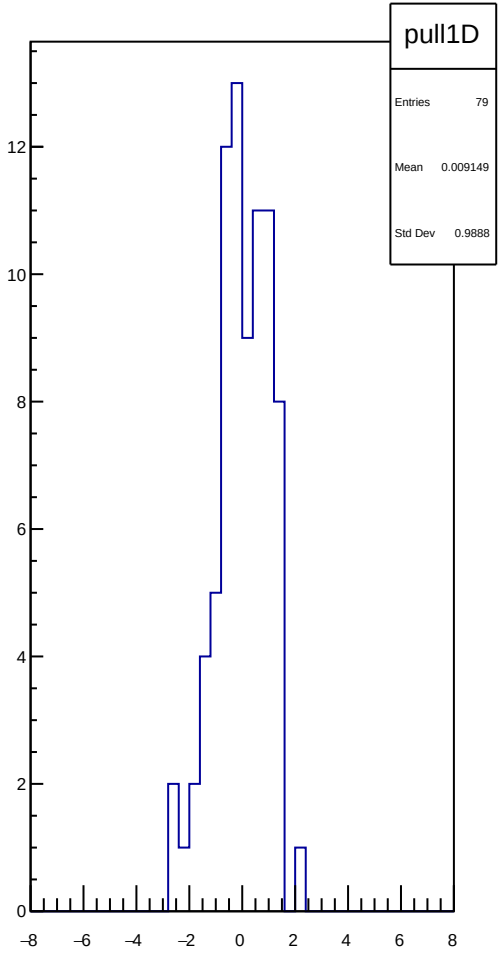

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 428.1 / 78
p0 22.26 ± 0.01782
23.5
23
22.5
22
21.5
21

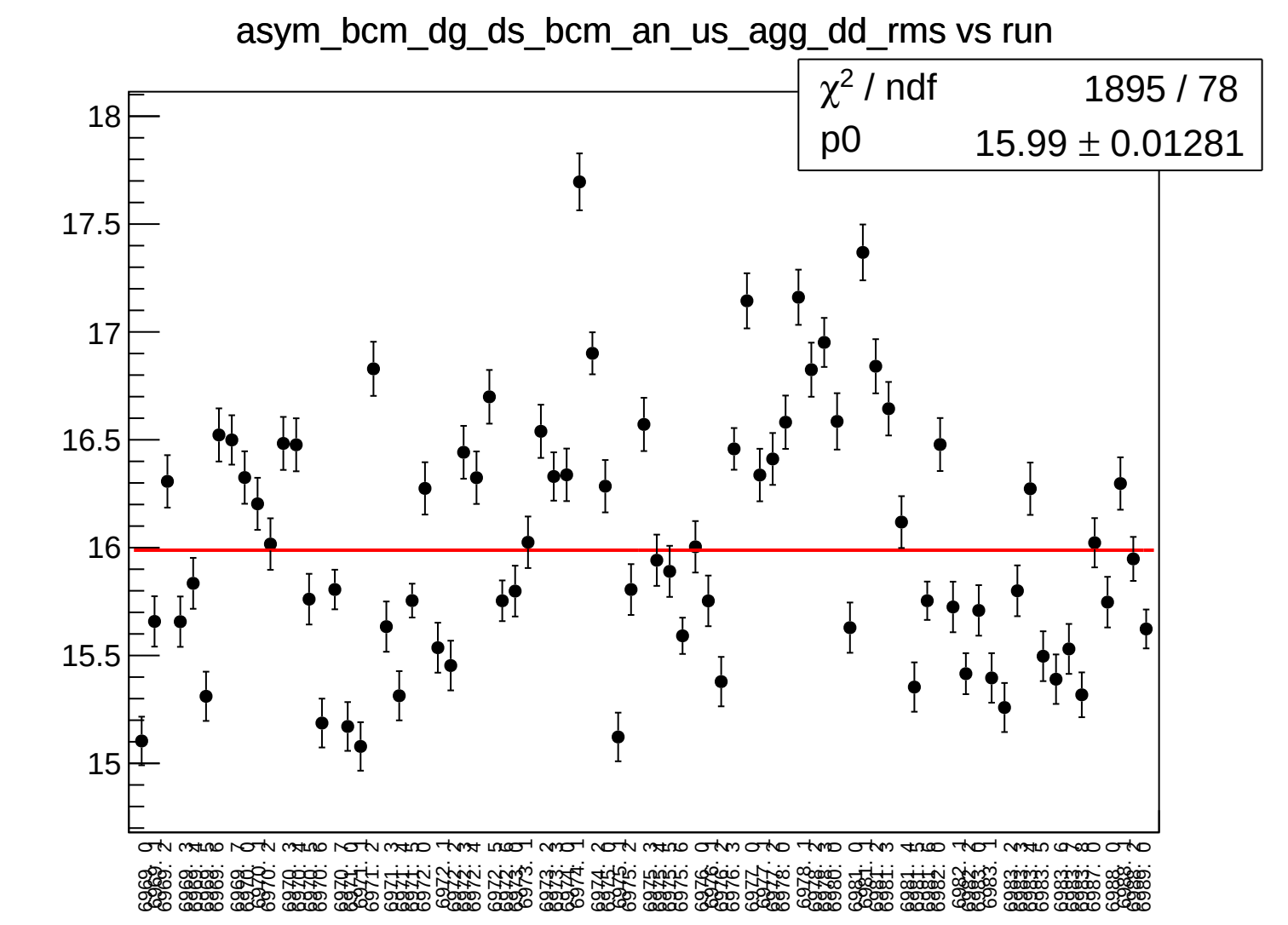

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 16.16 / 78
p0 20.04 ± 210.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 1155
Std Dev 1122
1.5
1
0.5
0
−0.5
−1
−1.5

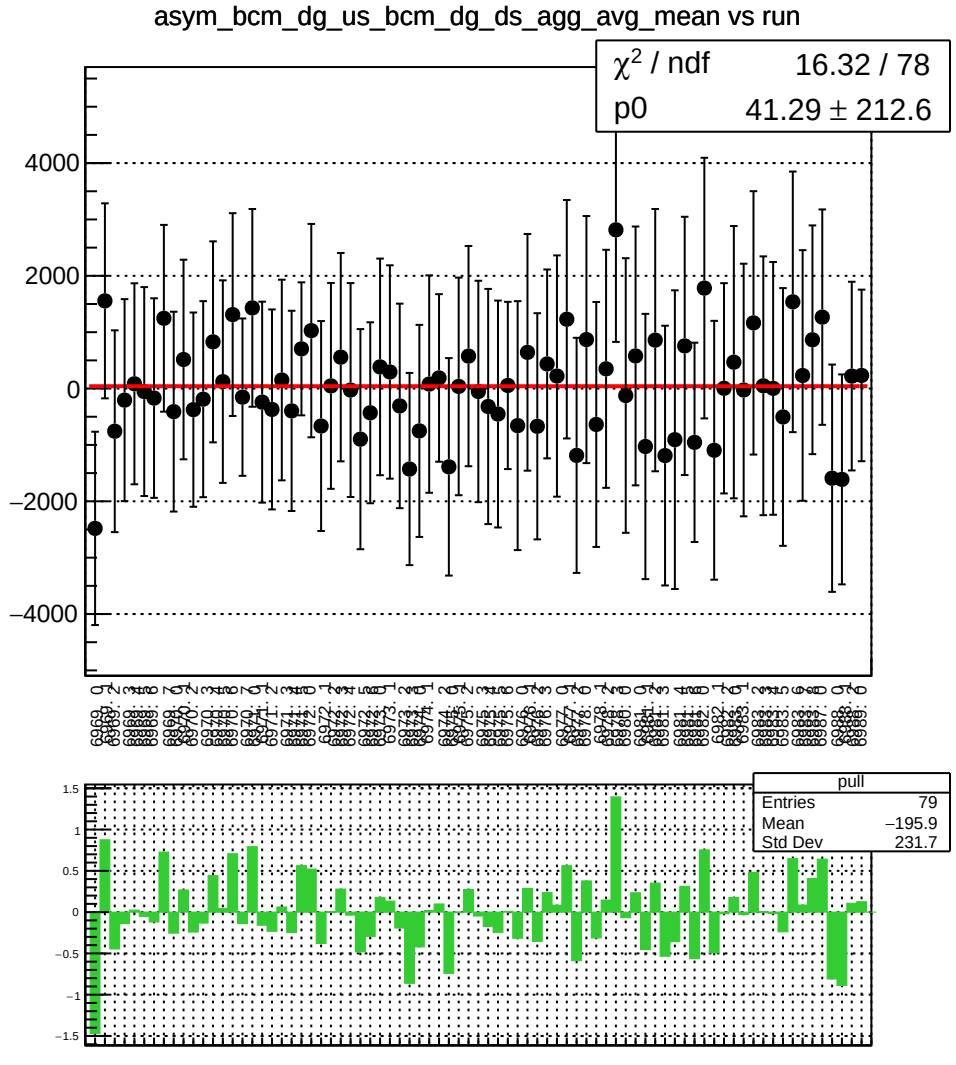

pull1D
Entries 79
Mean 0.00044
Std Dev 0.4522
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

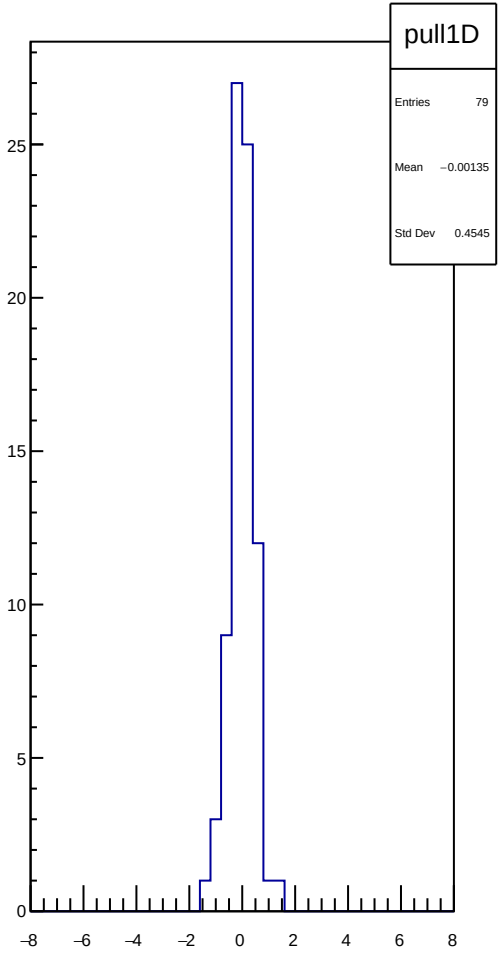

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.665e+04 / 78
p0 185.3 ± 0.1491
260
240
220
200
180
160

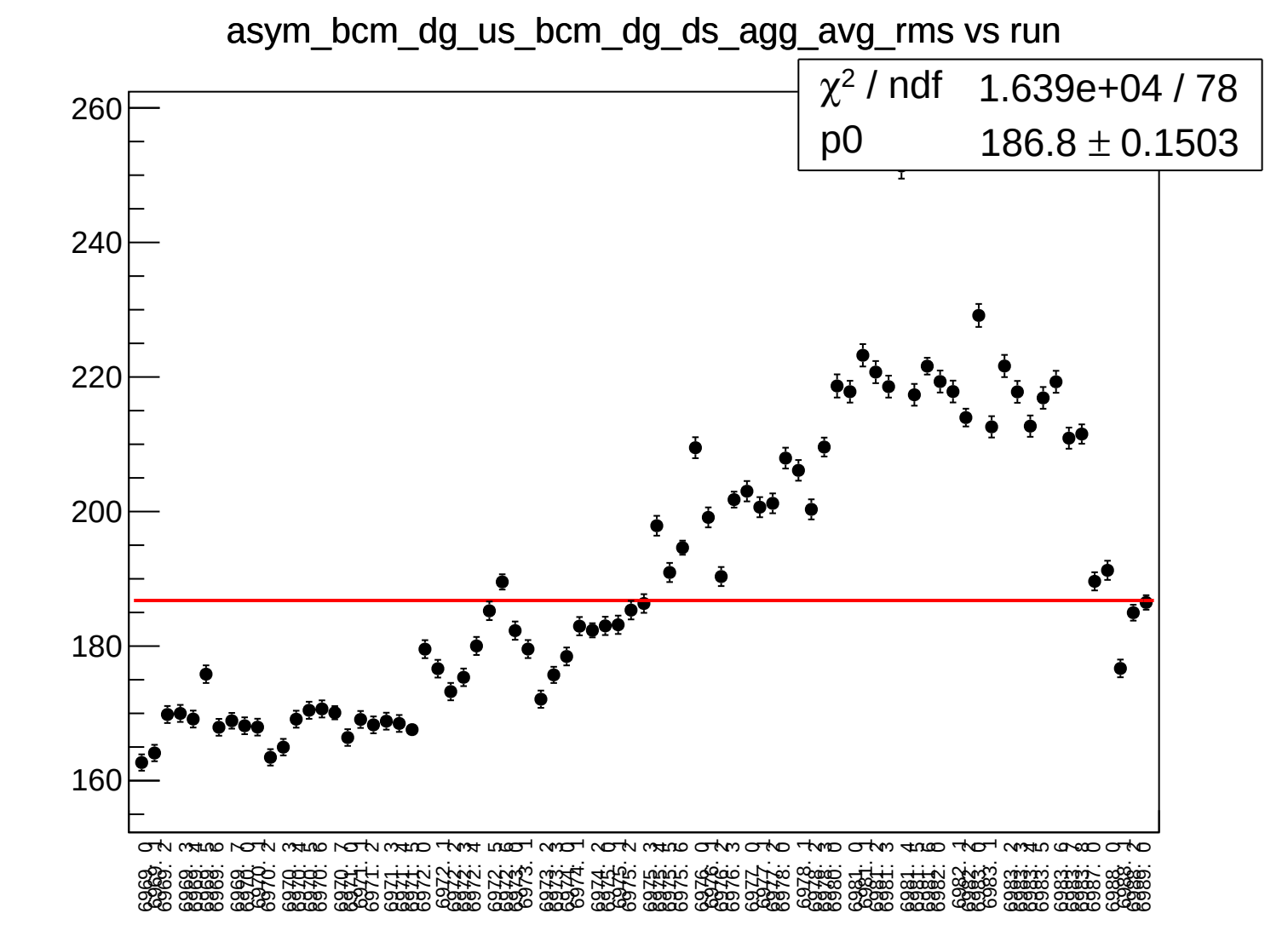

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 77.25 / 78
p0 −5.437 ± 18.11
400
200
0
−200
−400
−600
pull
Entries 79
Mean 261
Std Dev 231.3
2
1
0
−1
−2

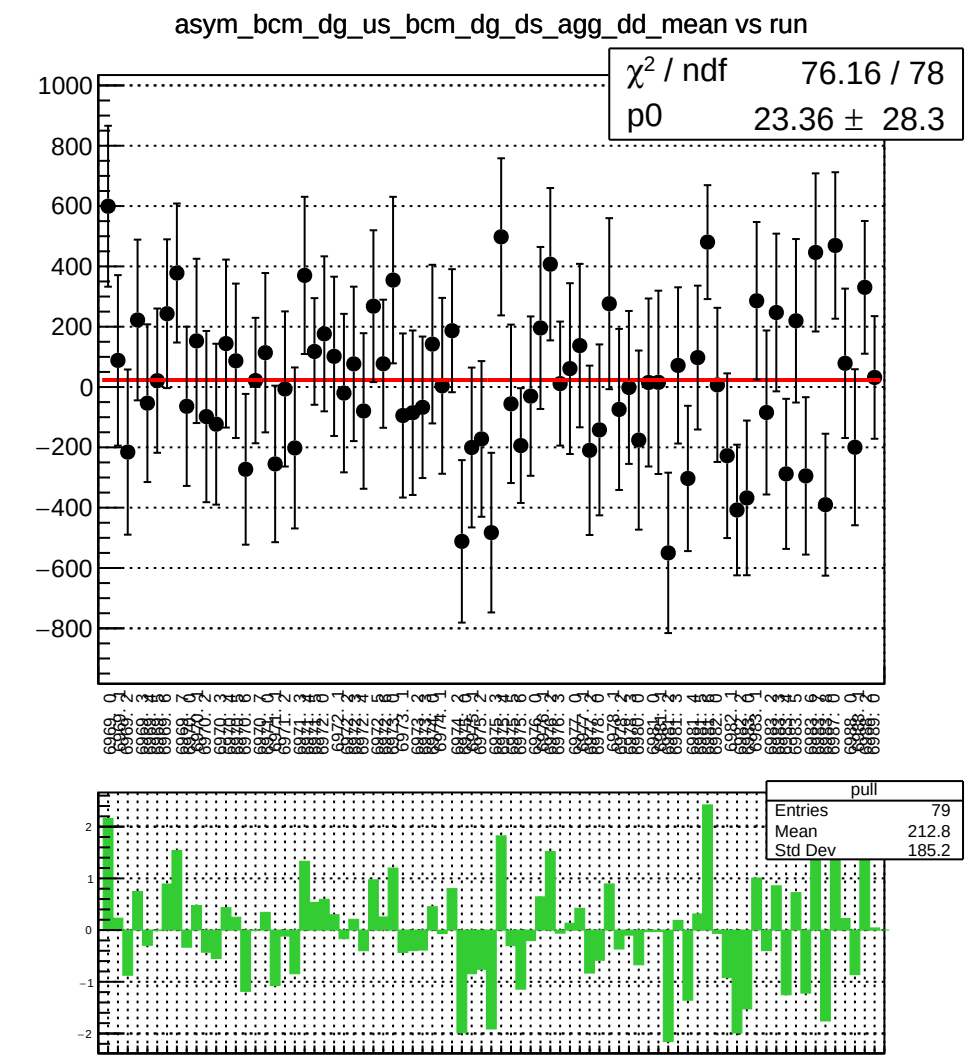

pull1D
Entries 79
Mean 0.009149
Std Dev 0.9888
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

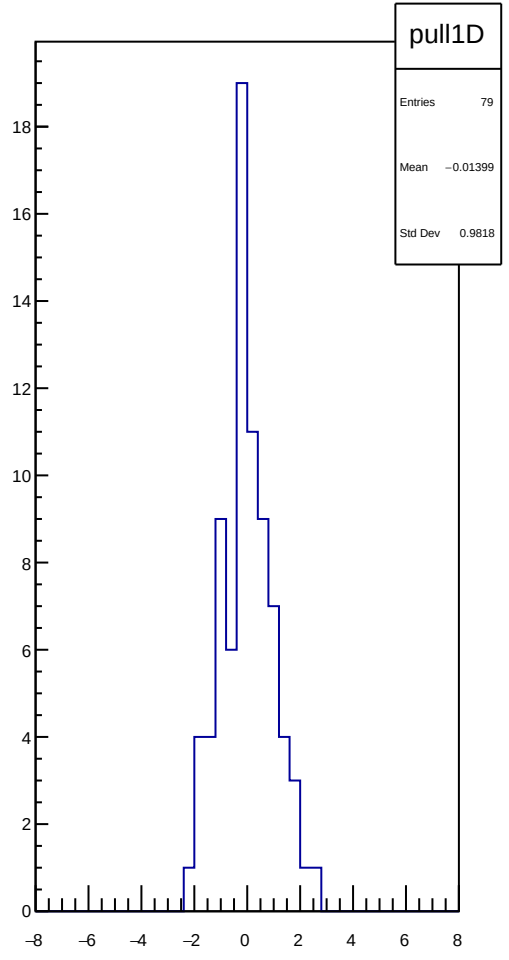

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1895 / 78
p0 15.99 ± 0.01281
18
17.5
17
16.5
16
15.5
15

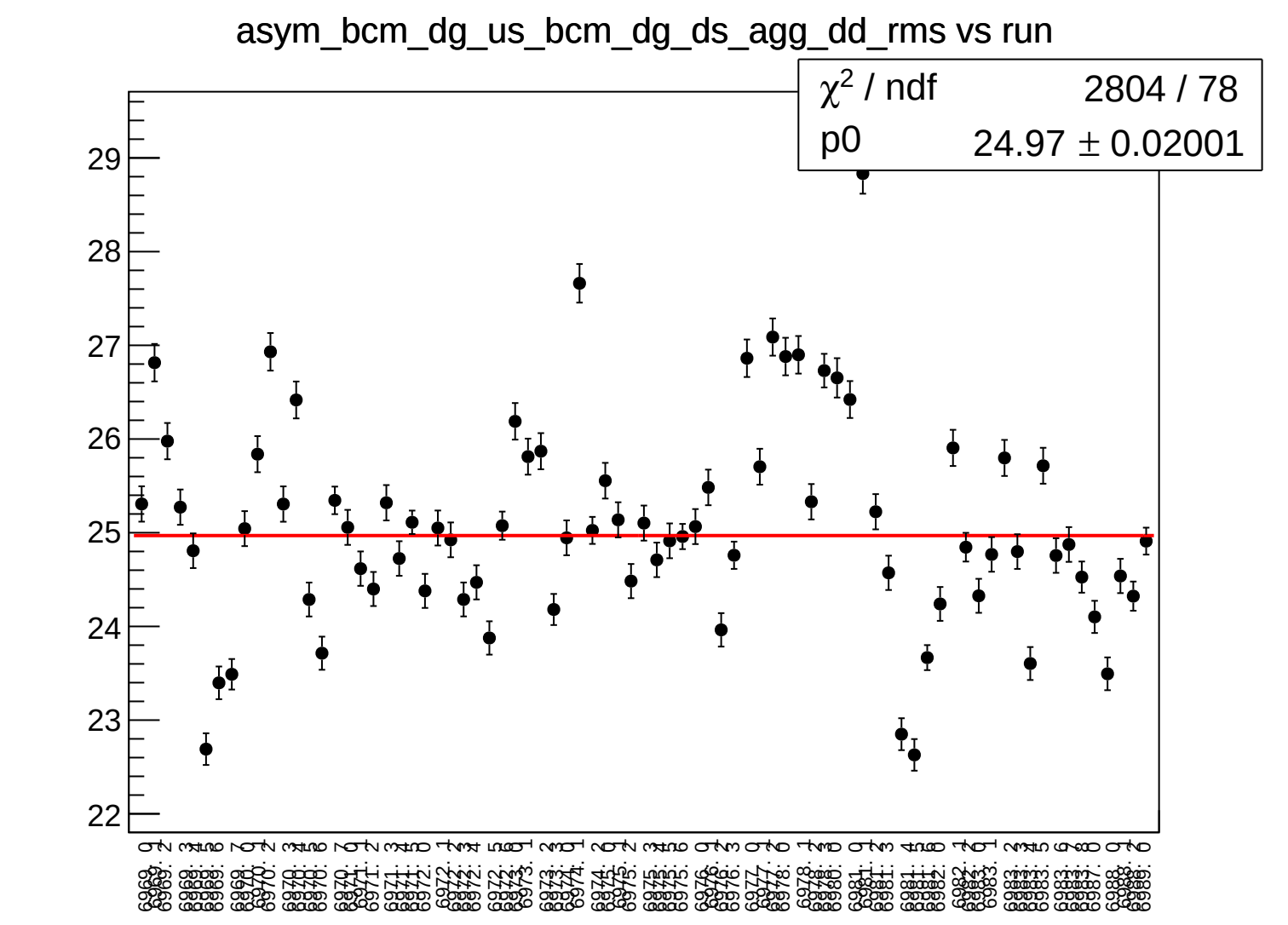

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 16.32 / 78
p0 41.29 ± 212.6
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −195.9
Std Dev 231.7
1.5
1
0.5
0
−0.5
−1
−1.5

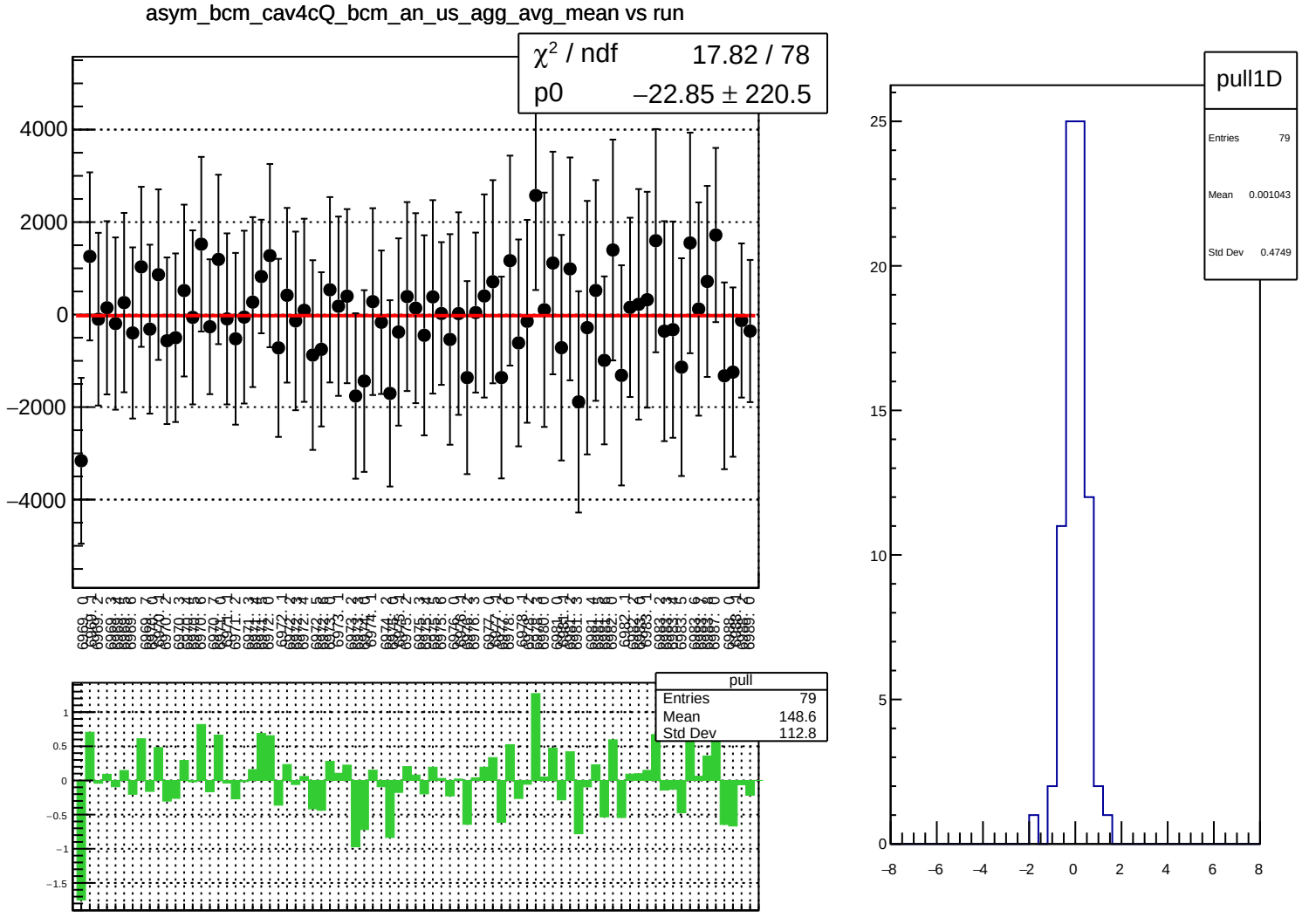

pull1D
Entries 79
Mean −0.00135
Std Dev 0.4545
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

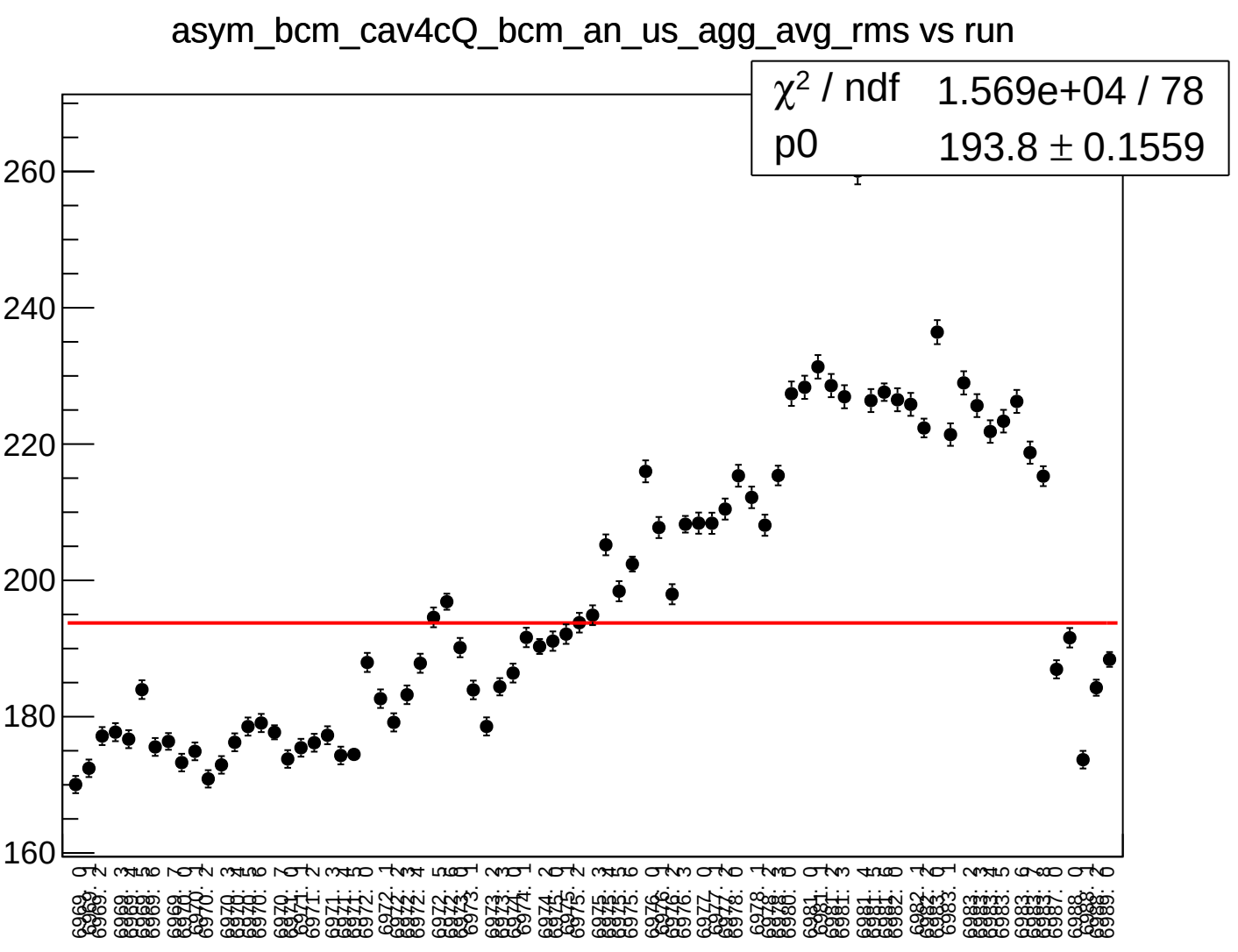

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.639e+04 / 78
p0 186.8 ± 0.1503
260
240
220
200
180
160

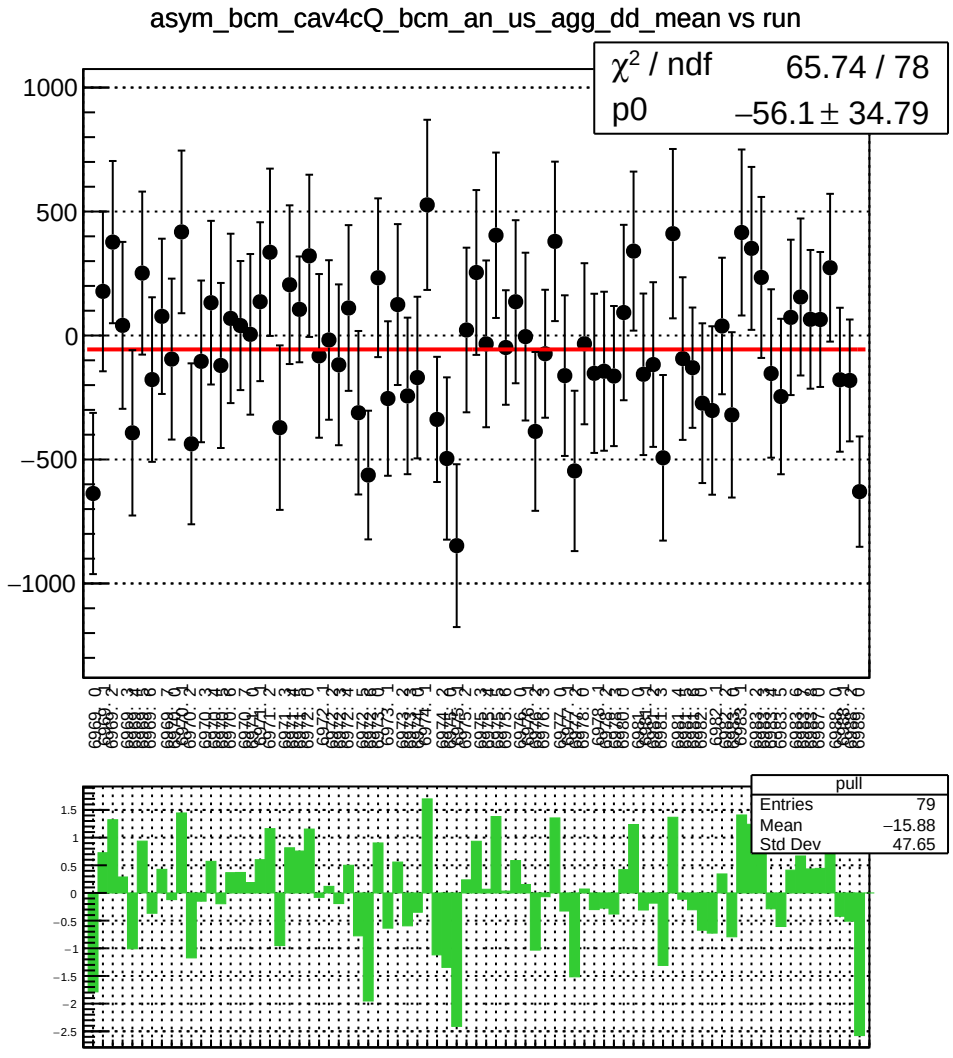

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 76.16 / 78
p0 23.36 ± 28.3
pull
Entries 79
Mean 212.8
Std Dev 185.2

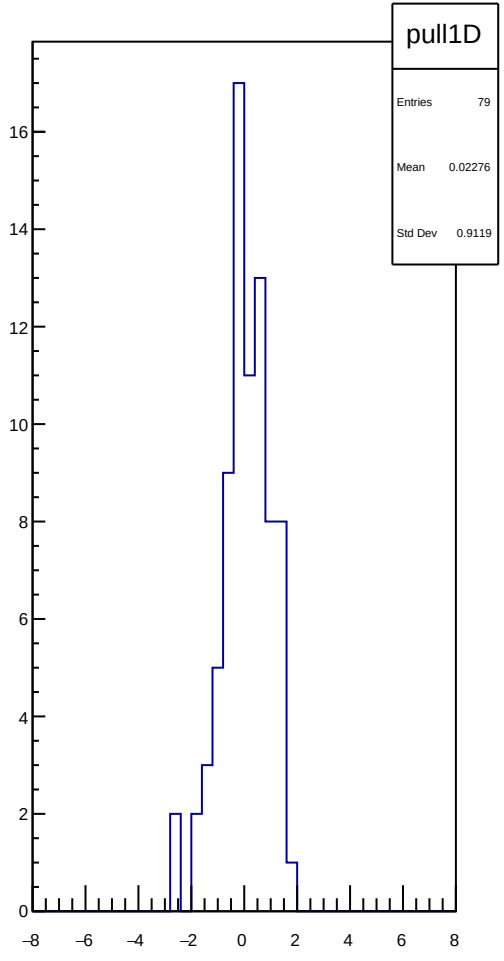

pull1D
Entries 79
Mean −0.01399
Std Dev 0.9818

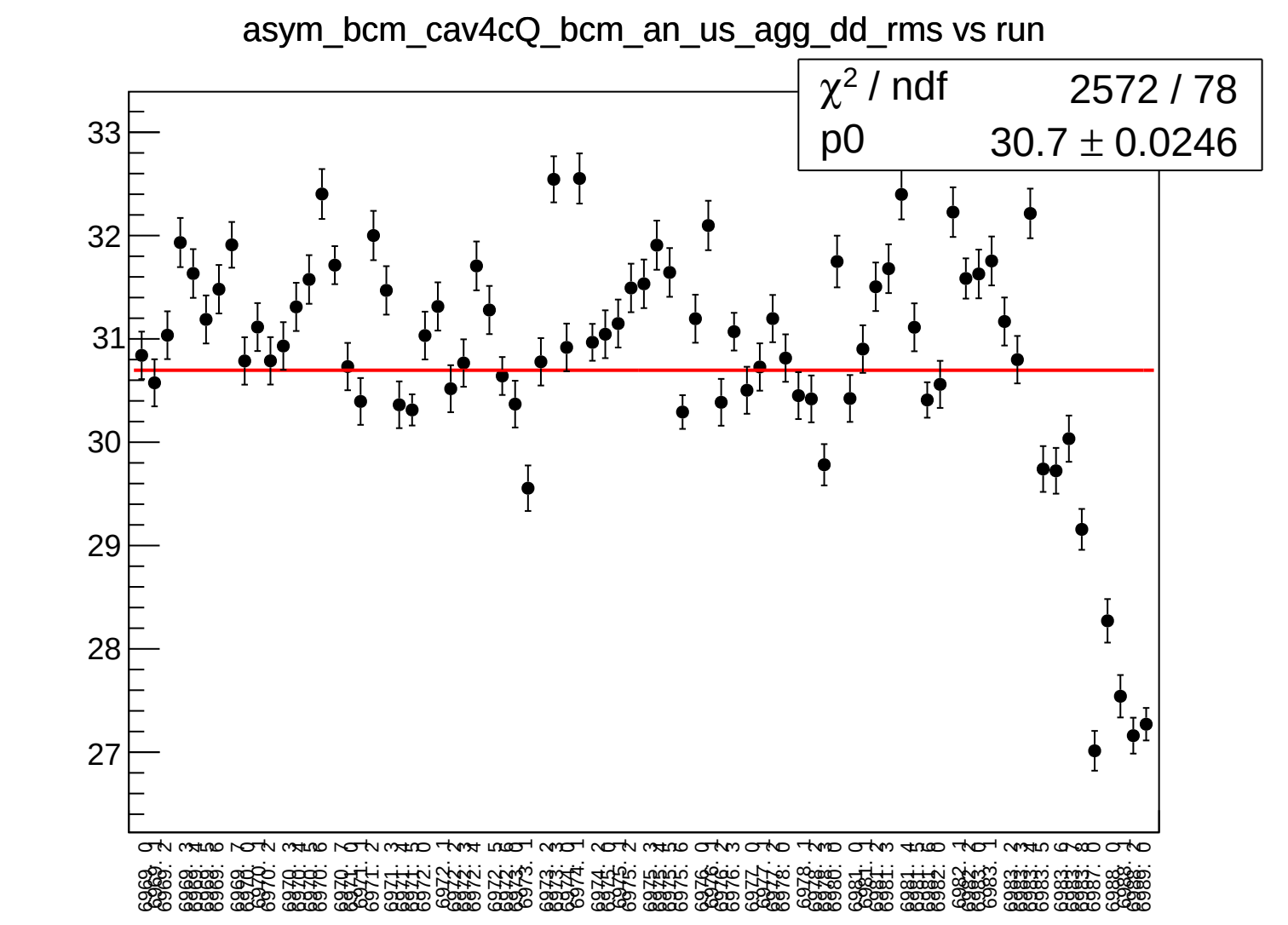

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2804 / 78
p0 24.97 ± 0.02001
29
28
27
26
25
24
23
22

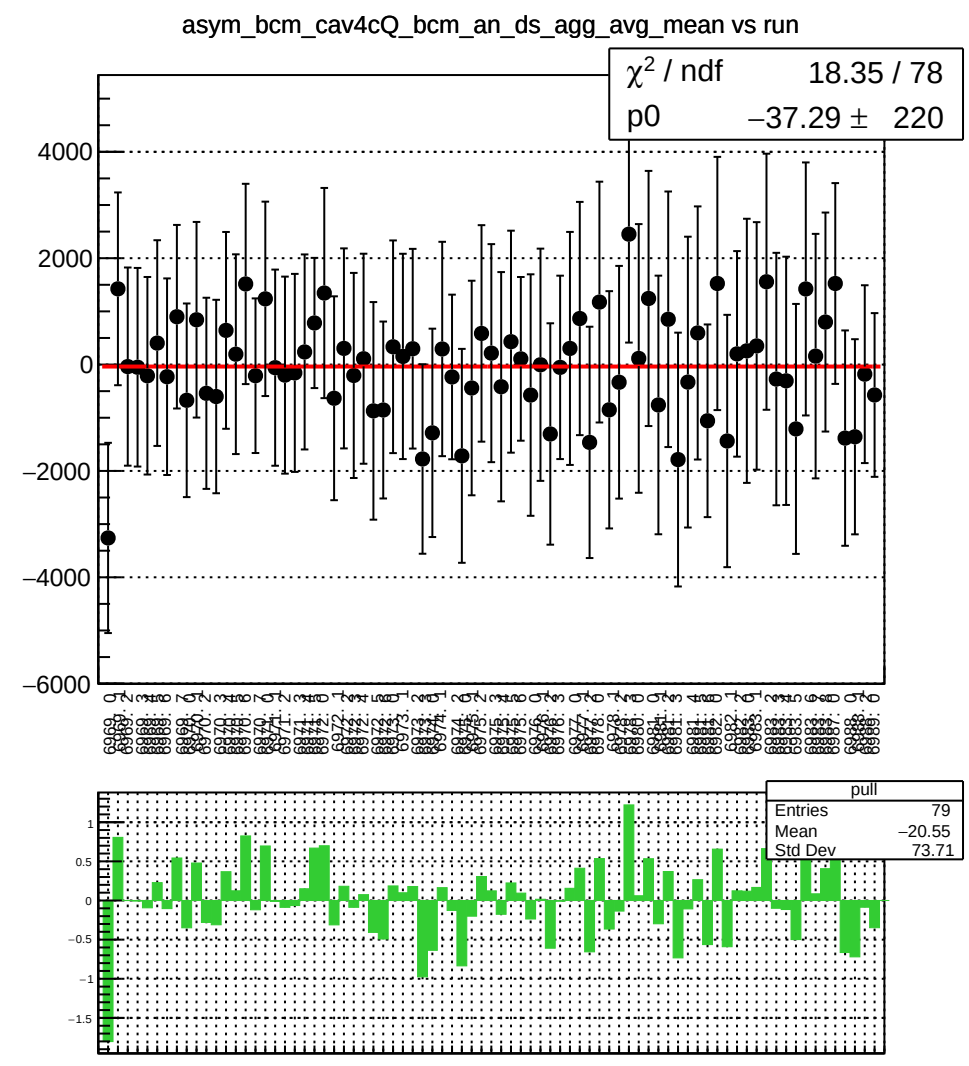

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 17.82 / 78
p0 −22.85 ± 220.5
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 148.6
Std Dev 112.8
1
0.5
0
−0.5
−1
−1.5
pull1D
Entries 79
Mean 0.001043
Std Dev 0.4749
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

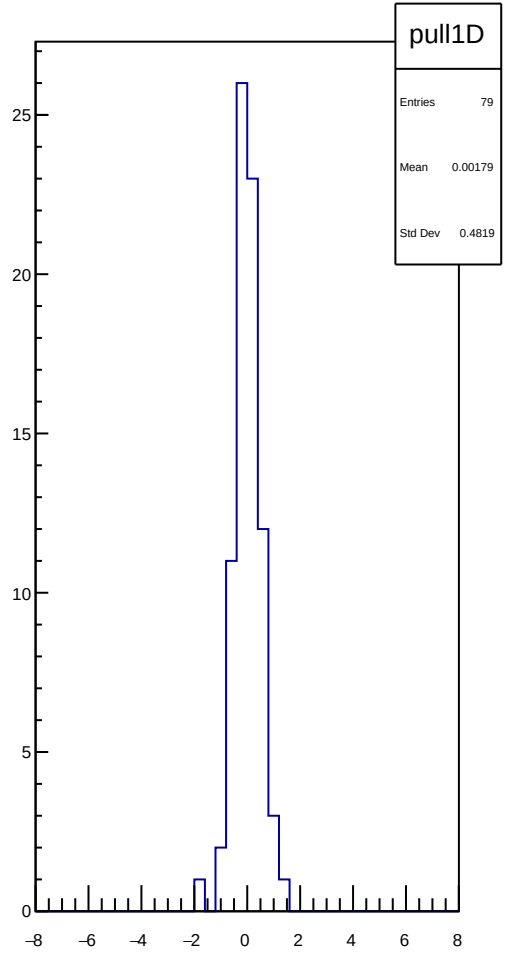

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.569e+04 / 78
p0 193.8 ± 0.1559
260
240
220
200
180
160

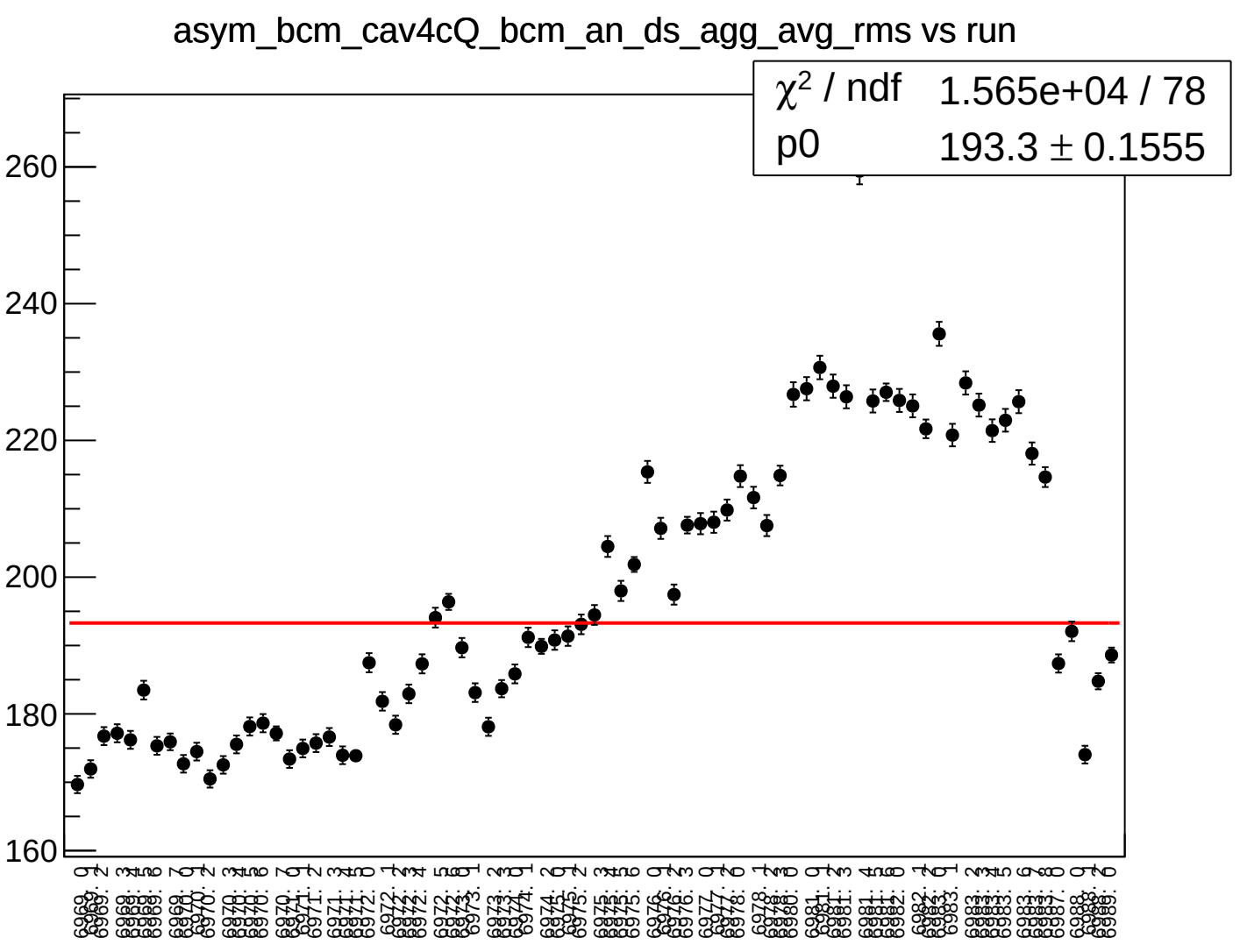

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.74 / 78
p0 −56.1 ± 34.79
1000
500
0
−500
−1000
pull
Entries 79
Mean −15.88
Std Dev 47.65
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

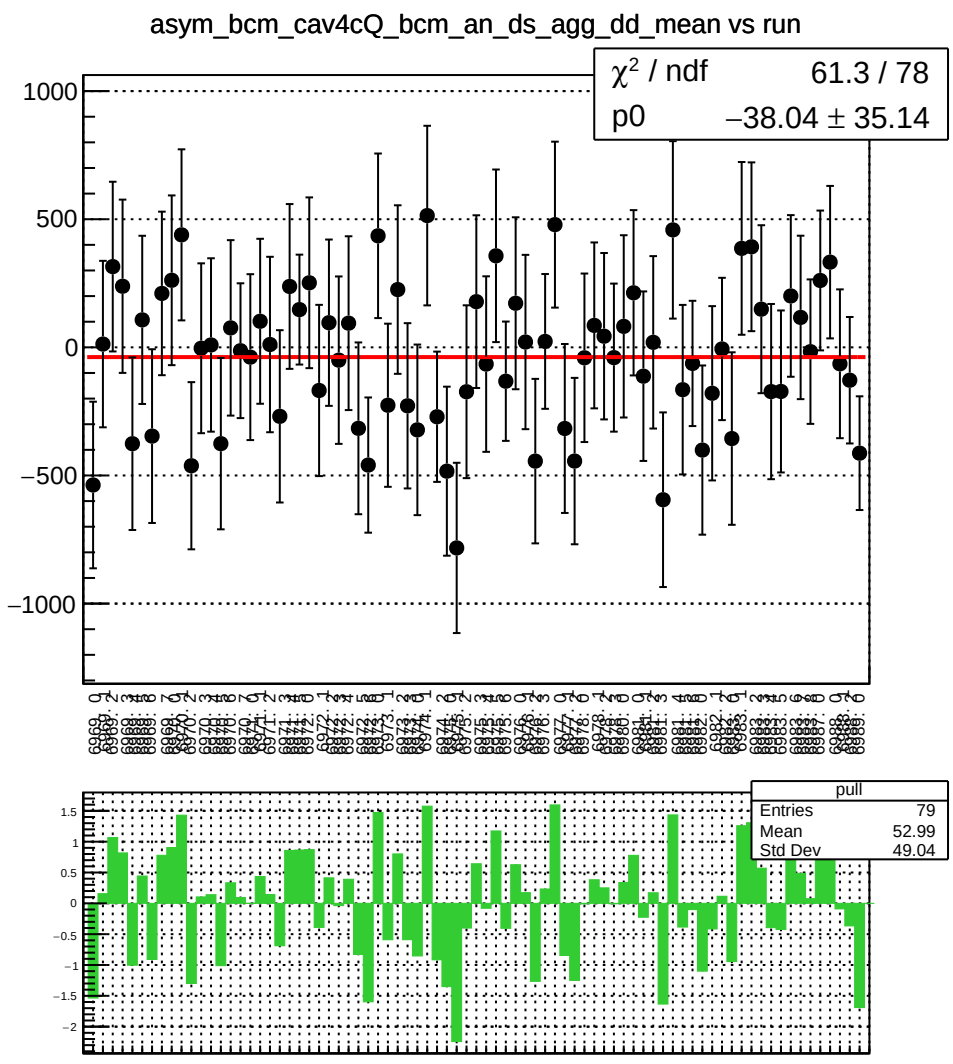

pull1D
Entries 79
Mean 0.02276
Std Dev 0.9119
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

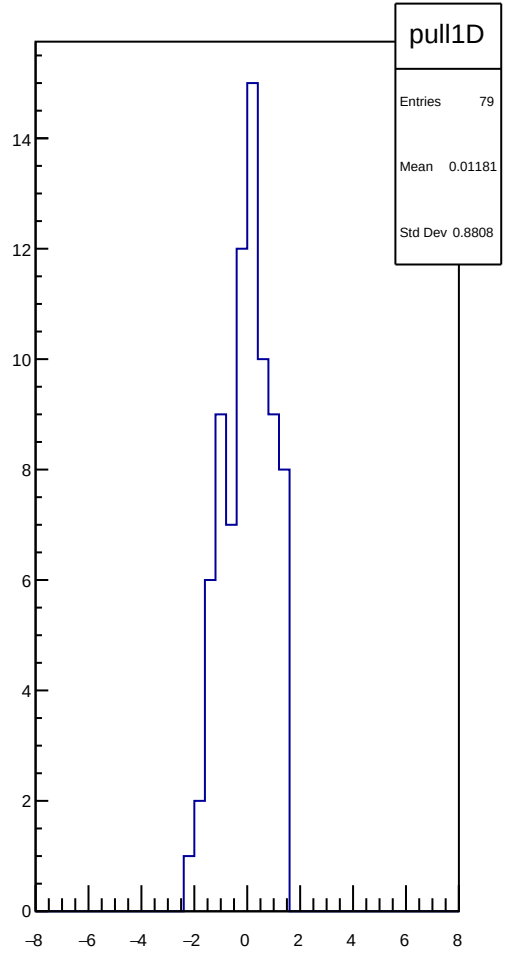

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2572 / 78
p0 30.7 ± 0.0246
33
32
31
30
29
28
27

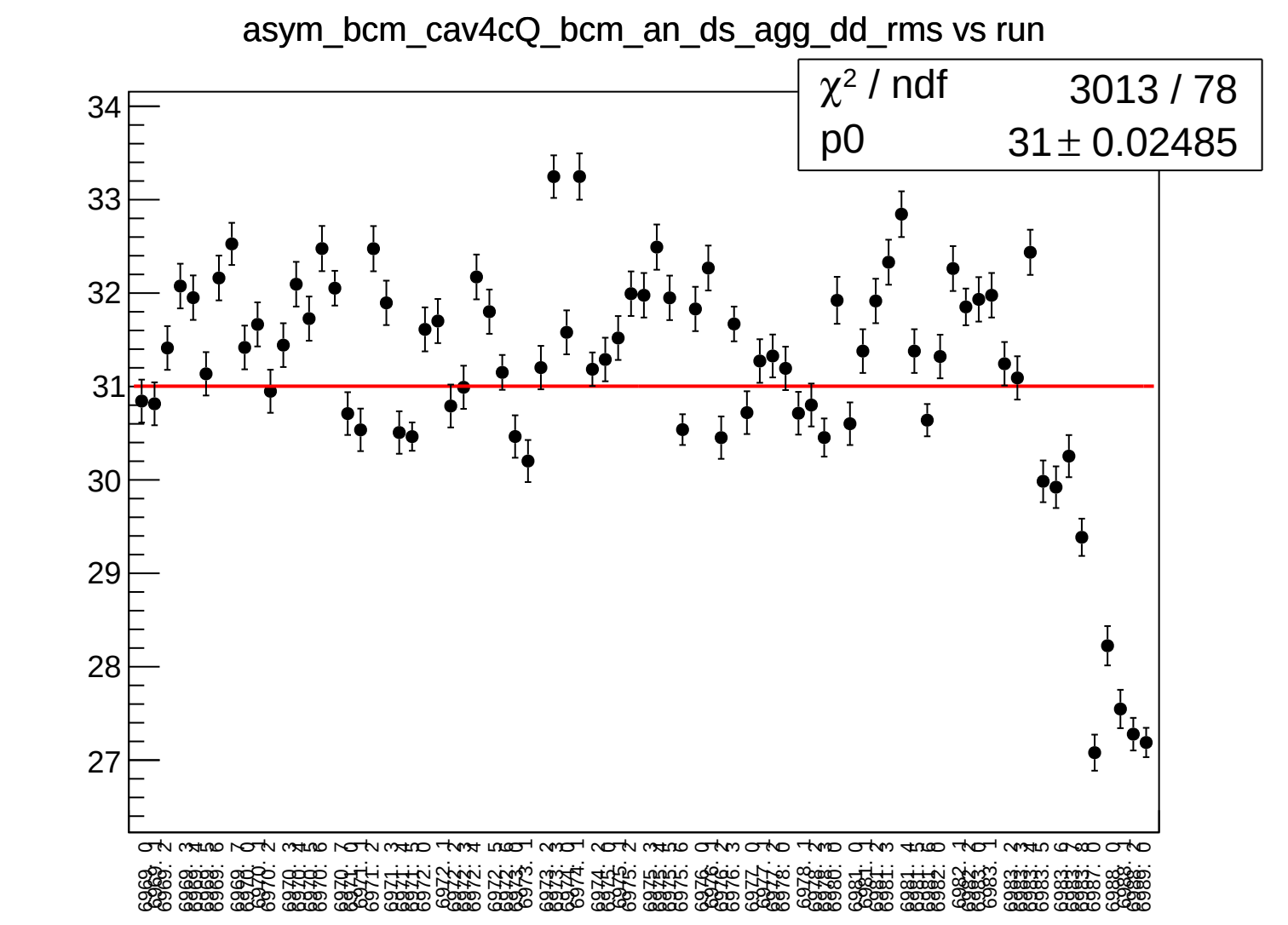

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 18.35 / 78
p0 −37.29 ± 220
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean −20.55
Std Dev 73.71
1
0.5
0
−0.5
−1
−1.5

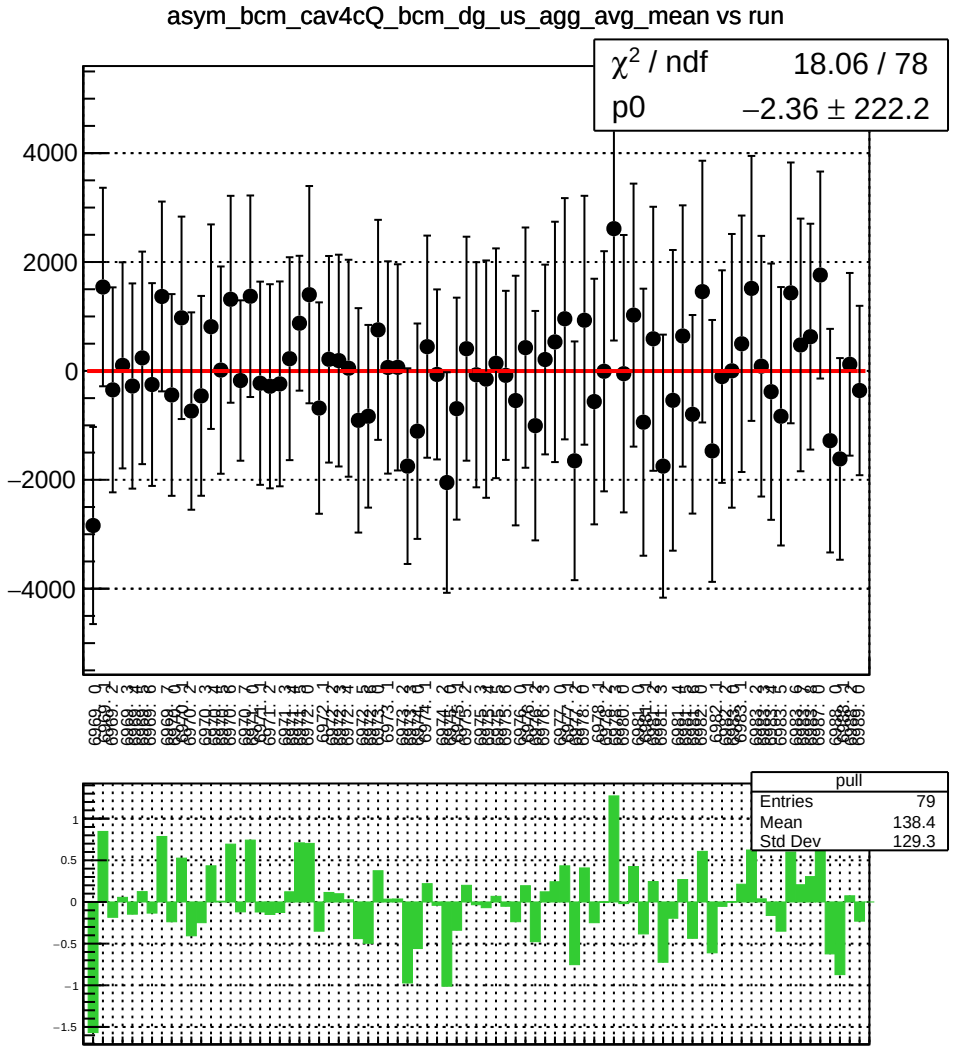

pull1D
Entries 79
Mean 0.00179
Std Dev 0.4819
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

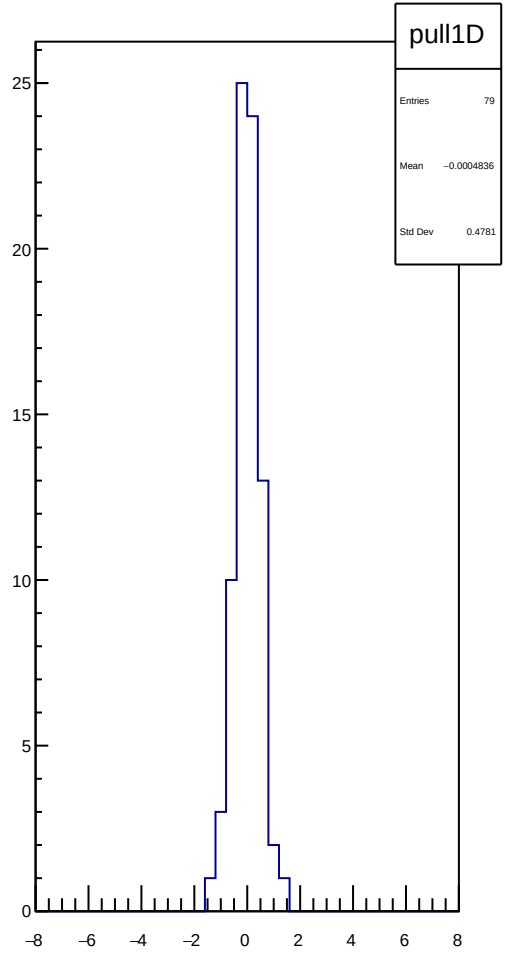

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.565e+04 / 78
p0 193.3 ± 0.1555
260
240
220
200
180
160

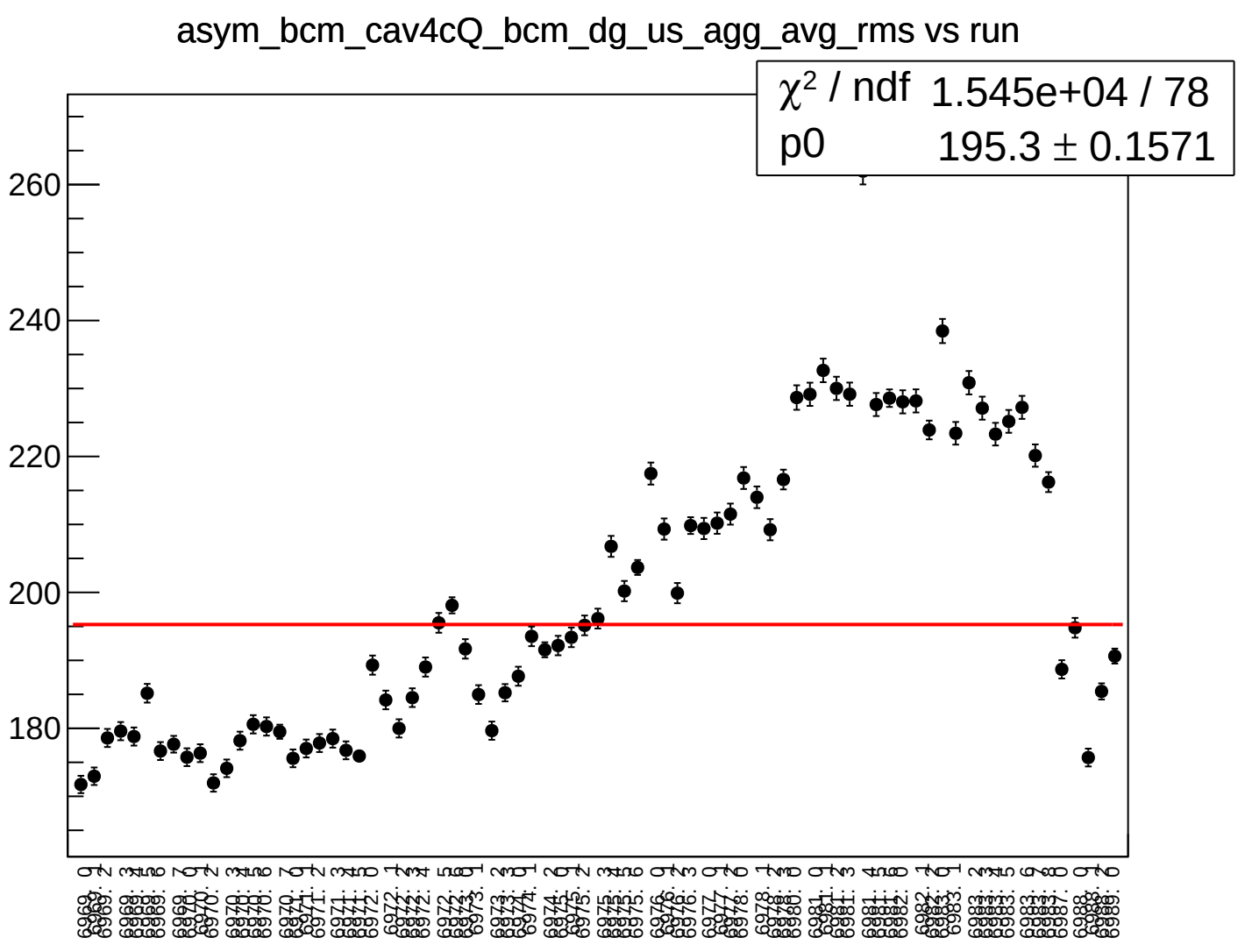

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 61.3 / 78
p0 −38.04 ± 35.14
1000
500
0
−500
−1000
pull
Entries 79
Mean 52.99
Std Dev 49.04
1.5
1
0.5
0
−0.5
−1
−1.5
−2

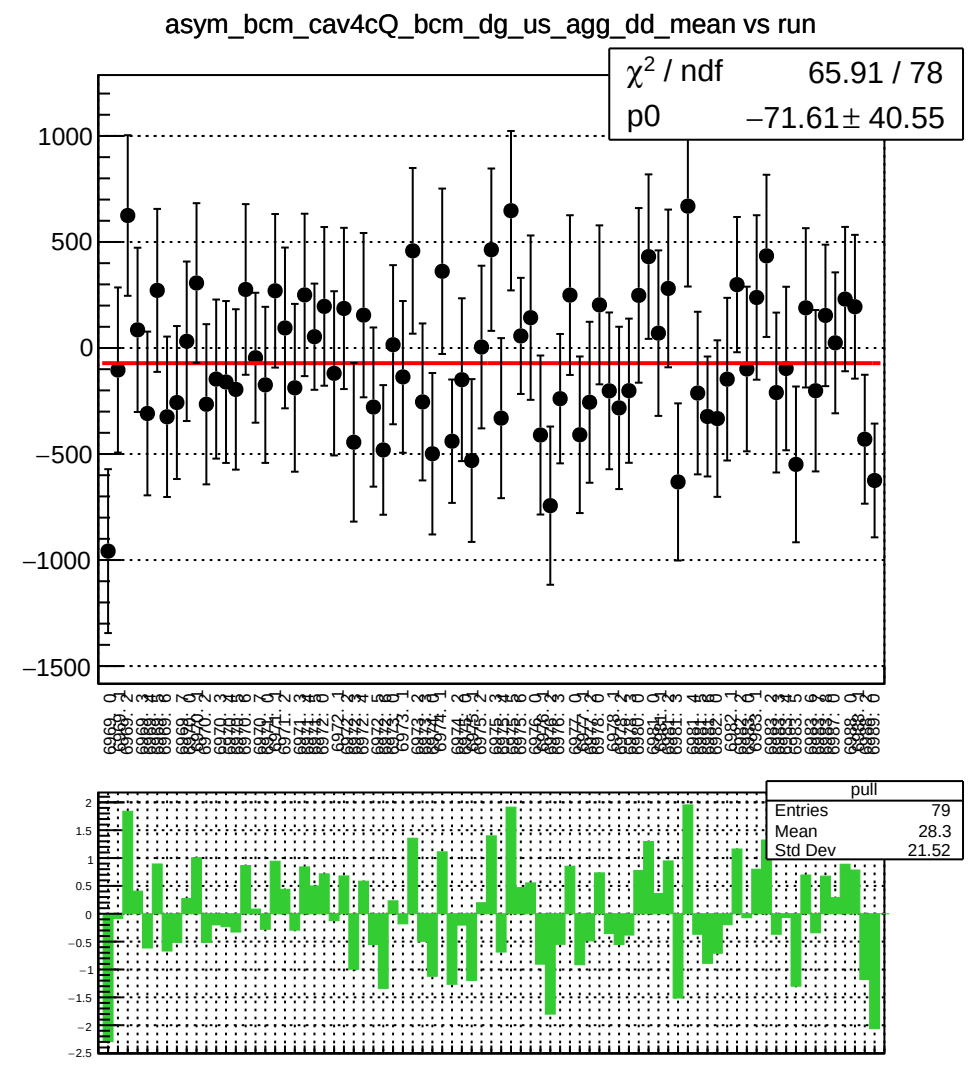

pull1D
Entries 79
Mean 0.01181
Std Dev 0.8808
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

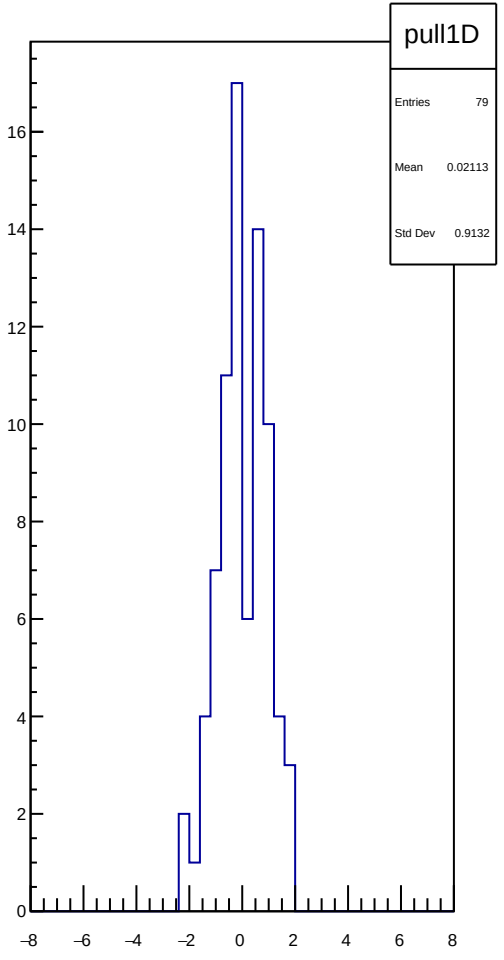

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3013 / 78
p0 31 ± 0.02485
34
33
32
31
30
29
28
27

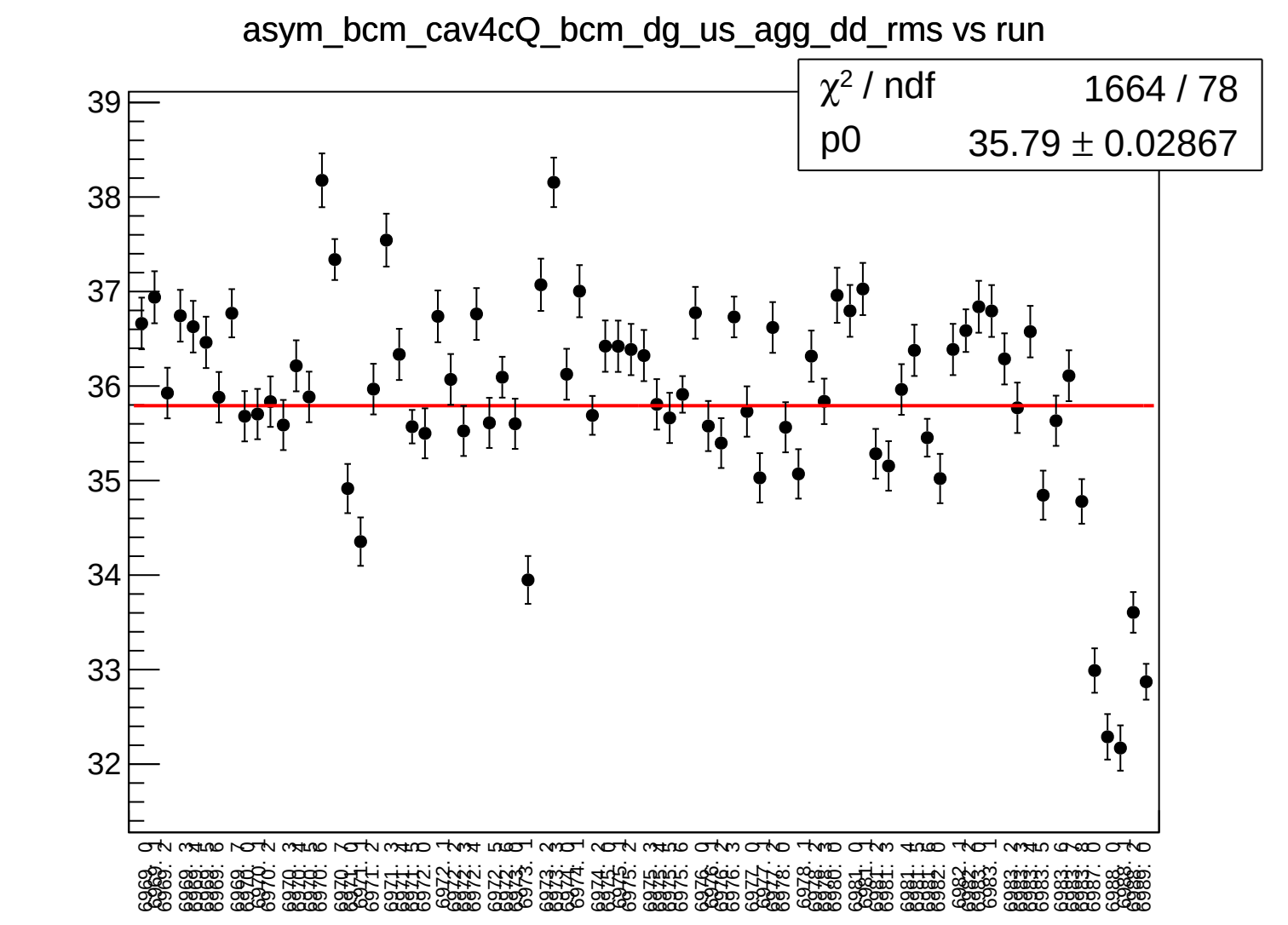

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 18.06 / 78
p0 −2.36 ± 222.2
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 138.4
Std Dev 129.3
1
0.5
0
−0.5
−1
−1.5

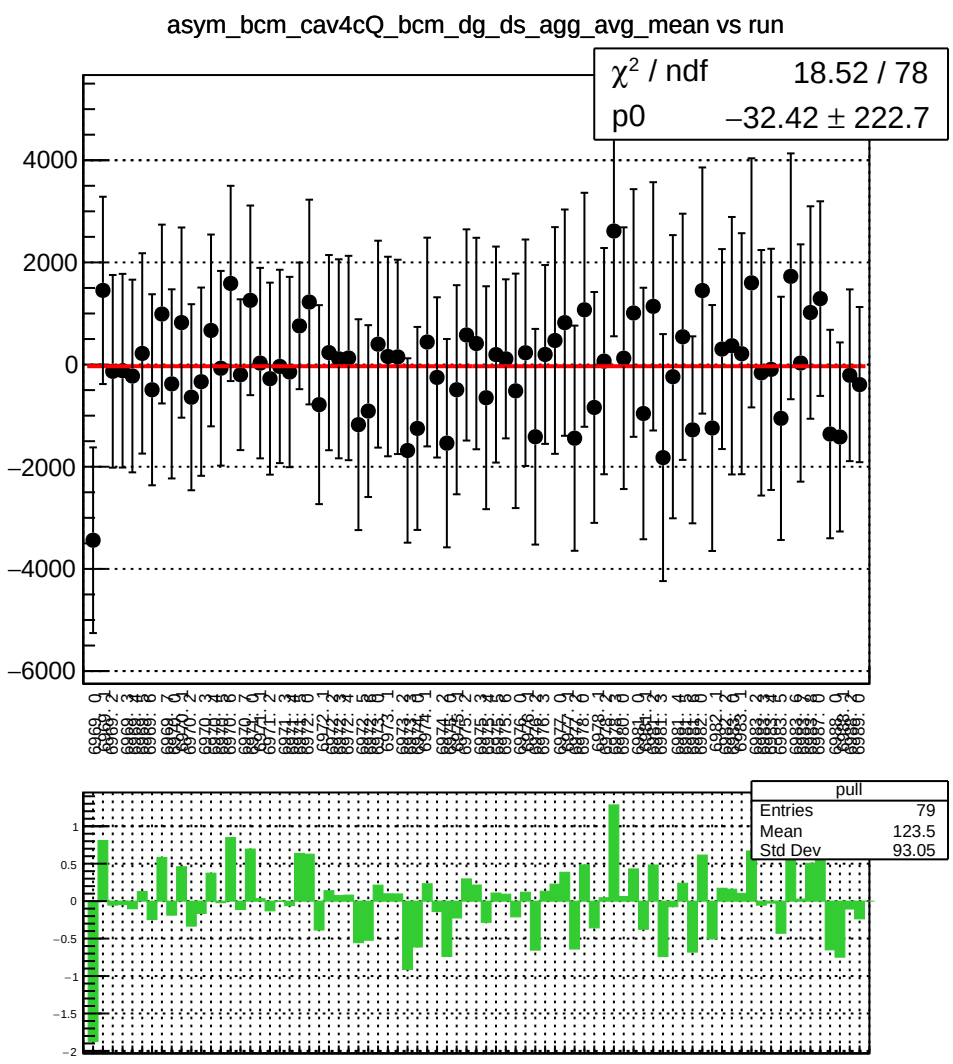

pull1D
Entries 79
Mean −0.0004836
Std Dev 0.4781
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

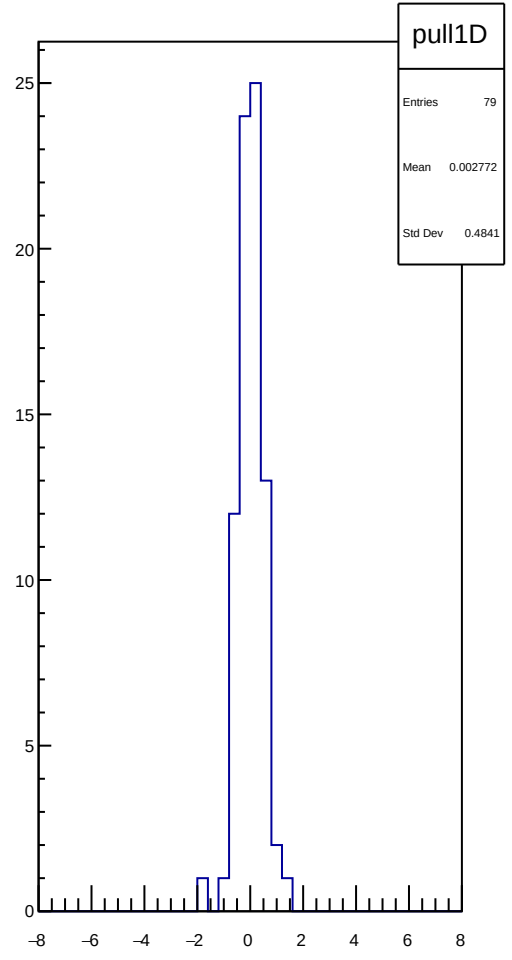

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.545e+04 / 78
p0 195.3 ± 0.1571
260
240
220
200
180

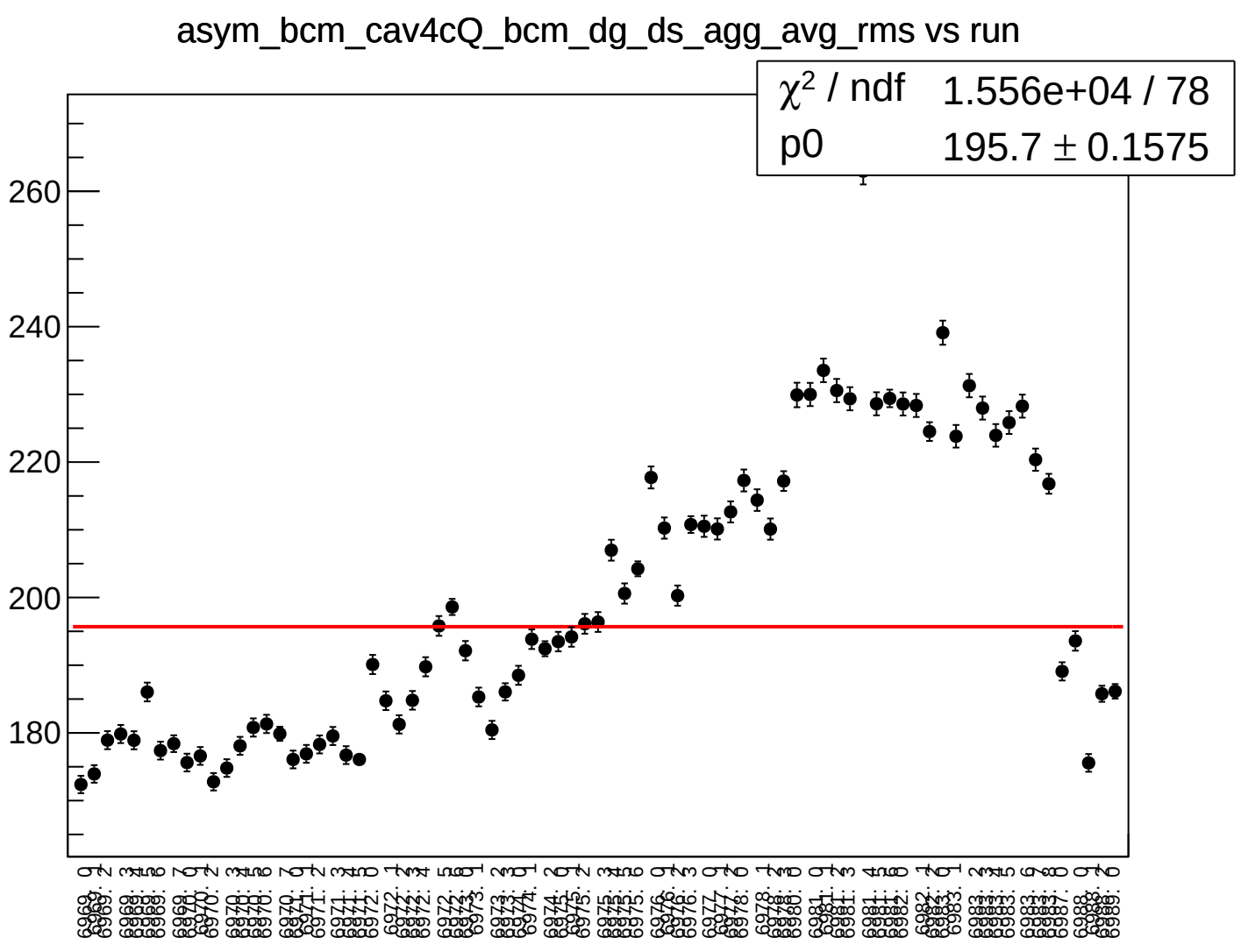

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 65.91 / 78
p0 −71.61 ± 40.55
pull
Entries 79
Mean 28.3
Std Dev 21.52

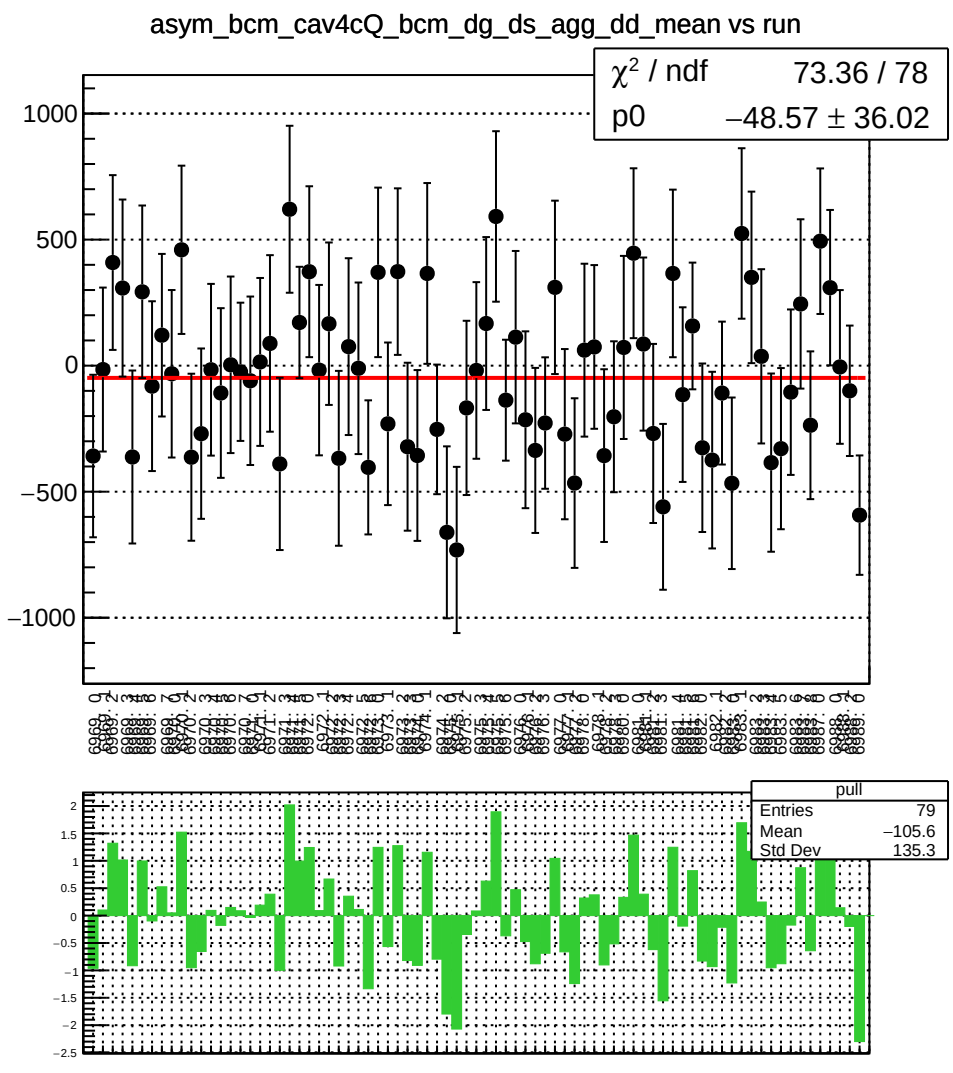

pull1D
Entries 79
Mean 0.02113
Std Dev 0.9132

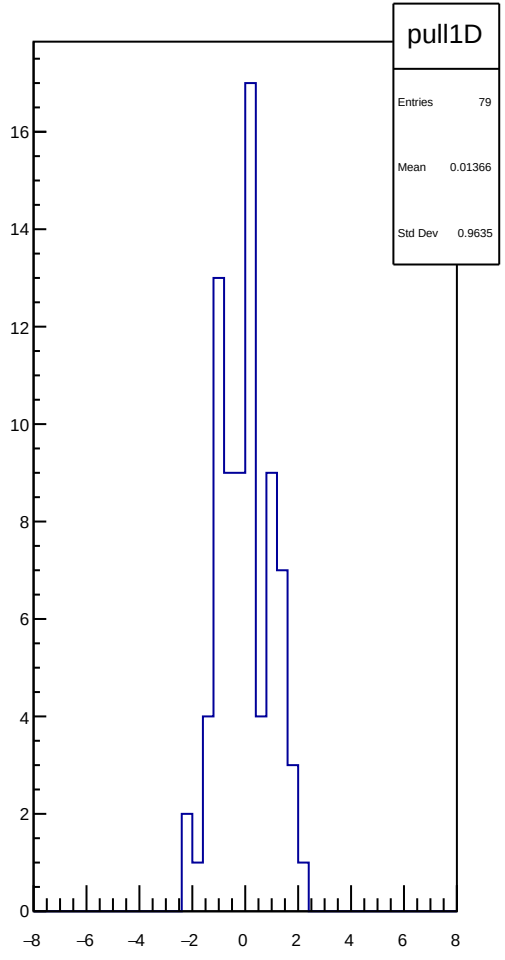

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1664 / 78
p0 35.79 ± 0.02867
39
38
37
36
35
34
33
32

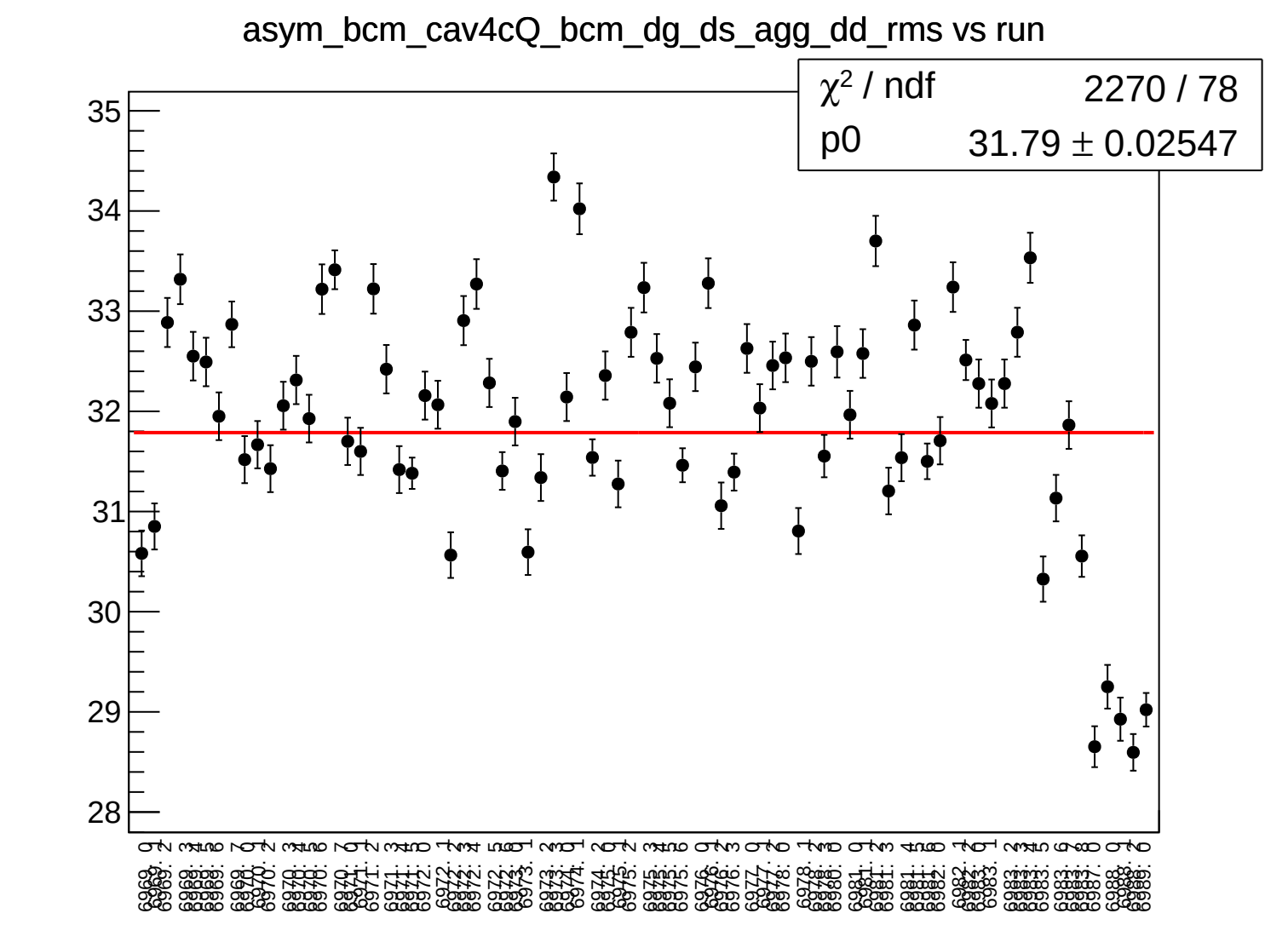

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 18.52 / 78
p0 −32.42 ± 222.7
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 123.5
Std Dev 93.05
1
0.5
0
−0.5
−1
−1.5
−2

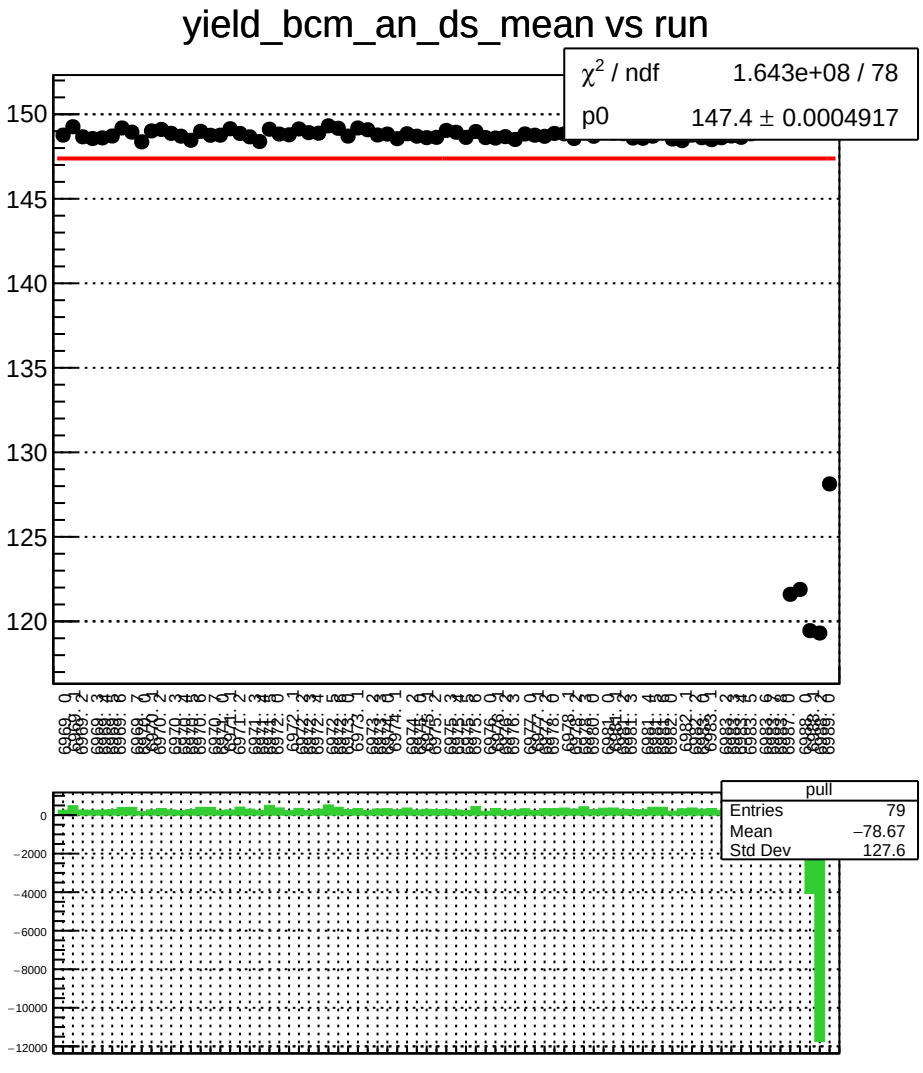

pull1D
Entries 79
Mean 0.002772
Std Dev 0.4841
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

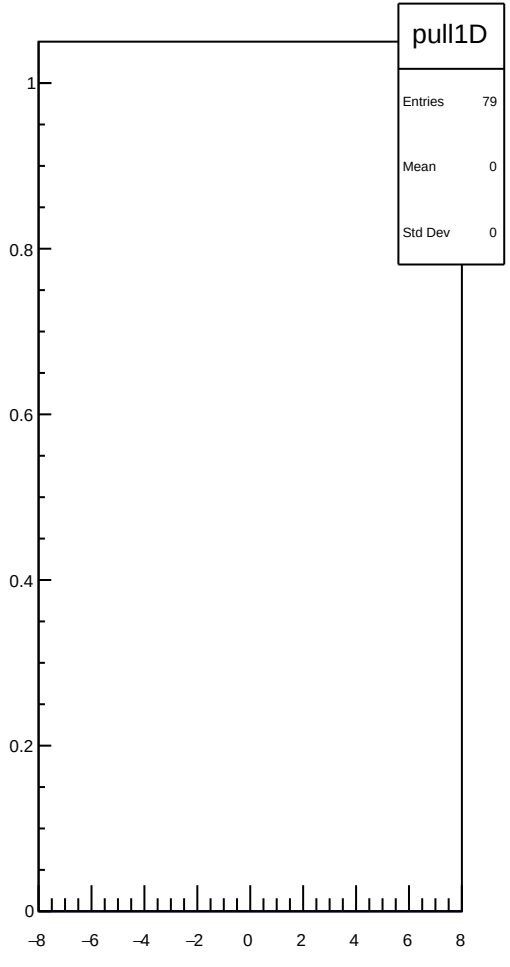

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.556e+04 / 78
p0 195.7 ± 0.1575
260
240
220
200
180

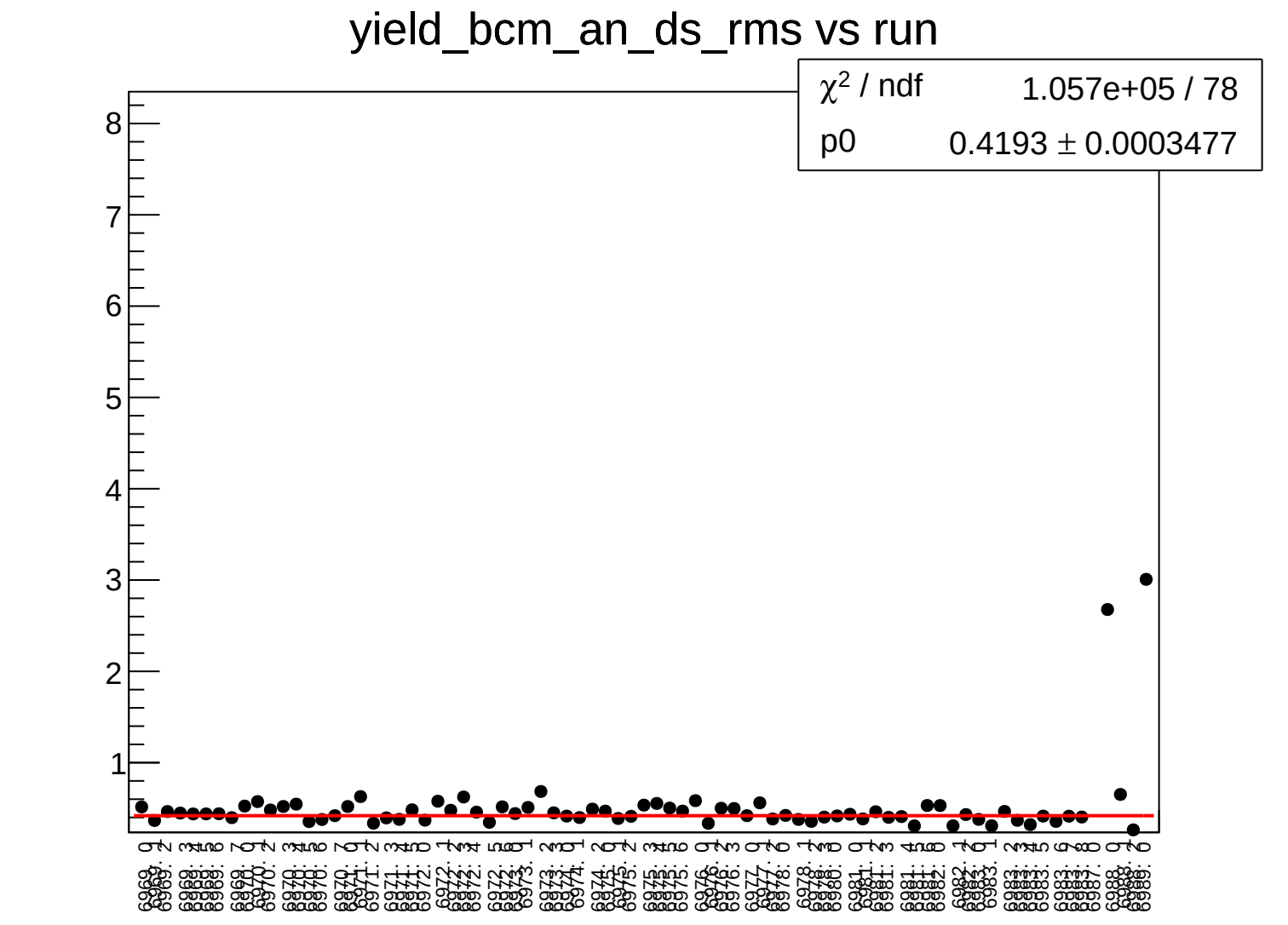

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 73.36 / 78
p0 −48.57 ± 36.02
1000
500
0
−500
−1000
pull
Entries 79
Mean −105.6
Std Dev 135.3
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

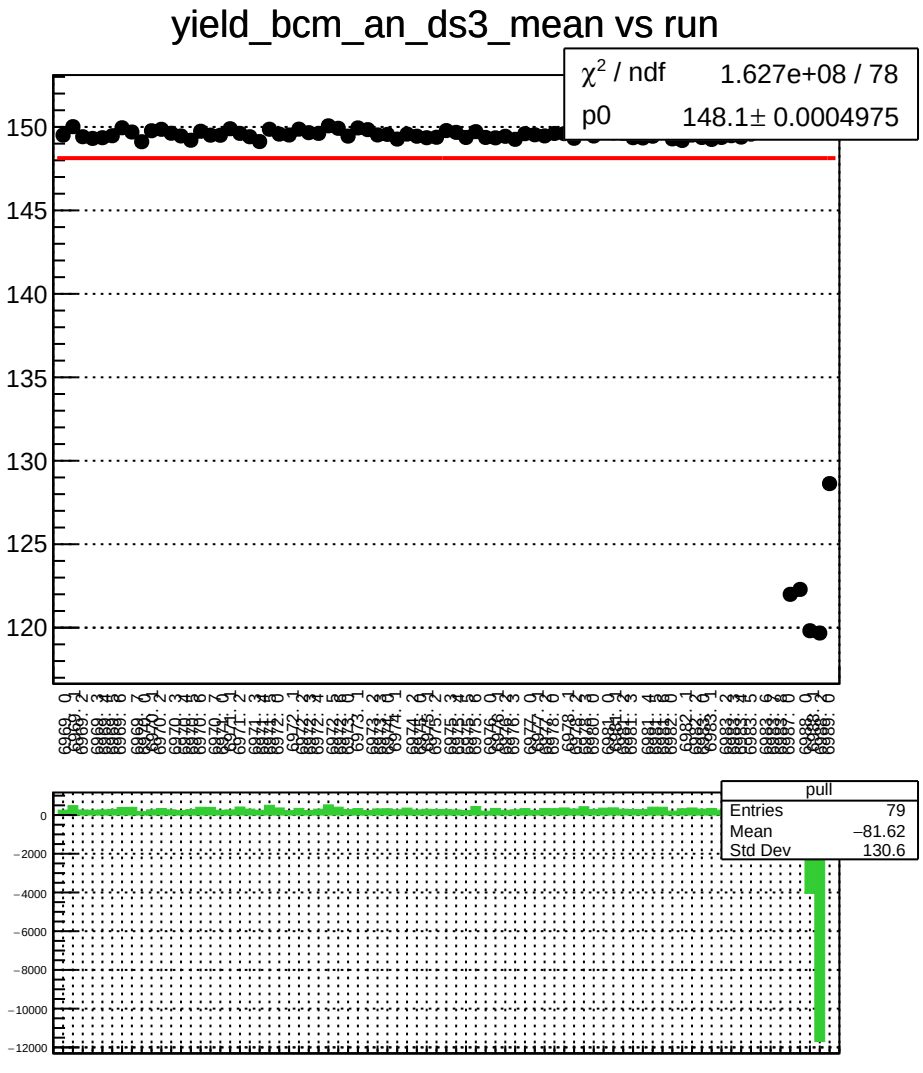

pull1D
Entries 79
Mean 0.01366
Std Dev 0.9635
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

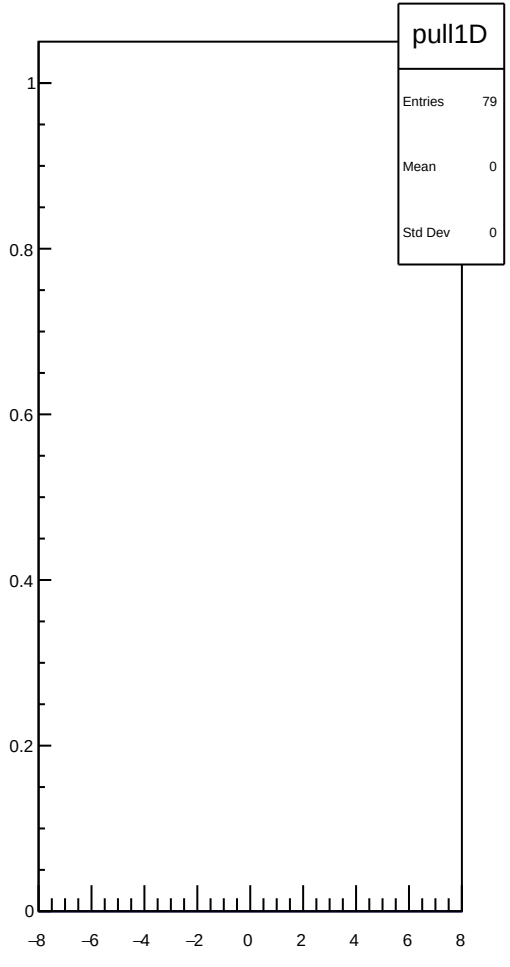

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2270 / 78
p0 31.79 ± 0.02547
35
34
33
32
31
30
29
28

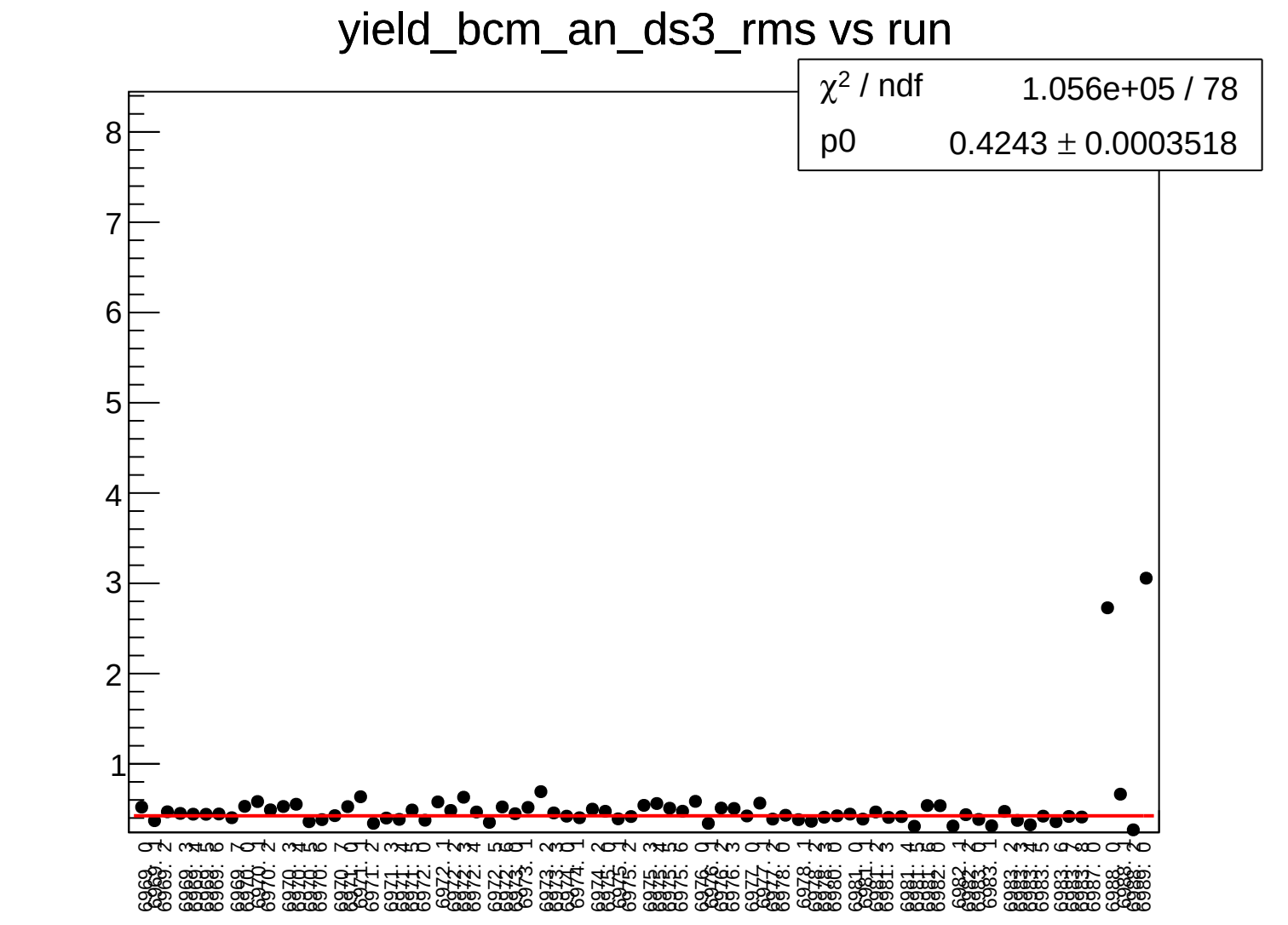

yield_bcm_an_ds_mean vs run
χ² / ndf 1.643e+08 / 78
p0 147.4 ± 0.0004917
150
145
140
135
130
125
120
pull
Entries 79
Mean −78.67
Std Dev 127.6
0
−2000
−4000
−6000
−8000
−10000
−12000

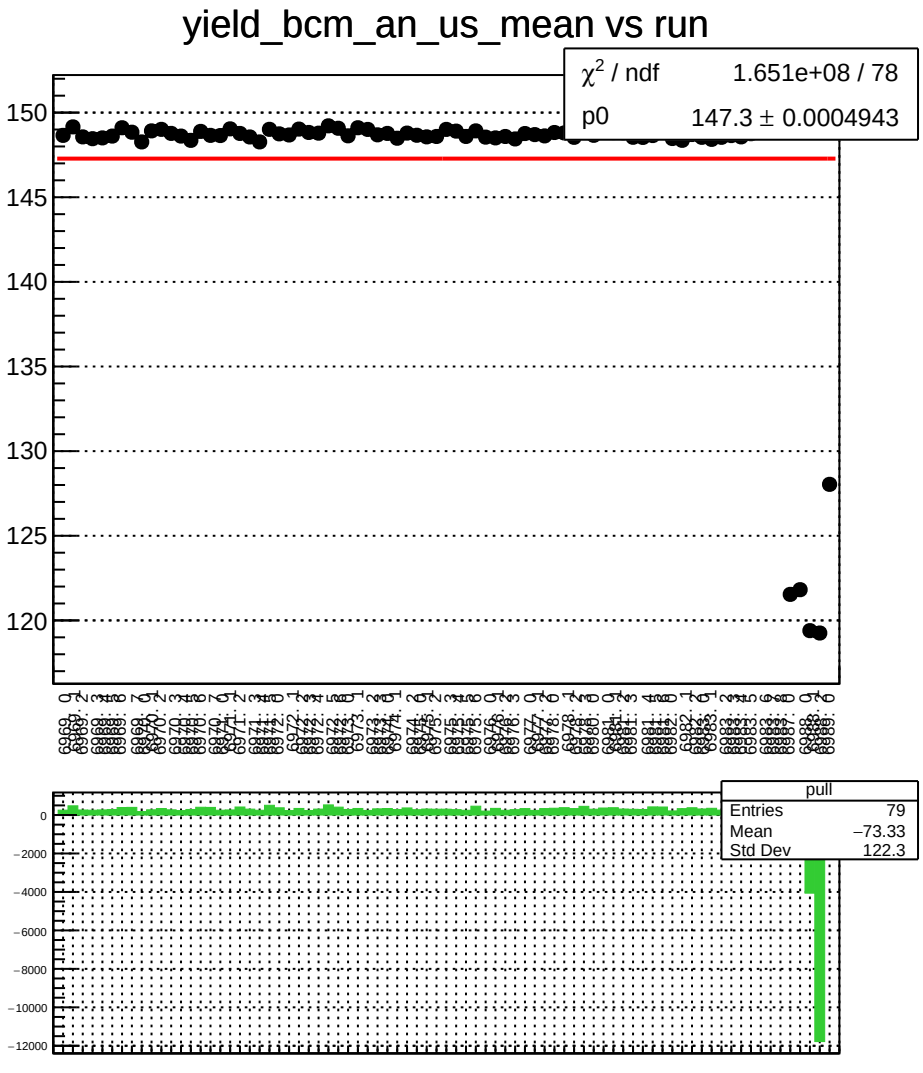

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

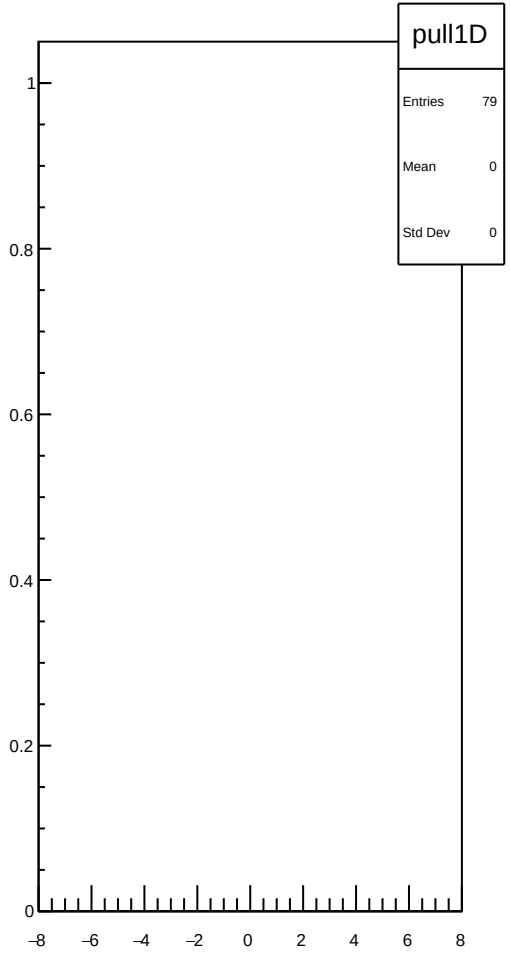

yield_bcm_an_ds_rms vs run
χ² / ndf 1.057e+05 / 78
p0 0.4193 ± 0.0003477
8
7
6
5
4
3
2
1

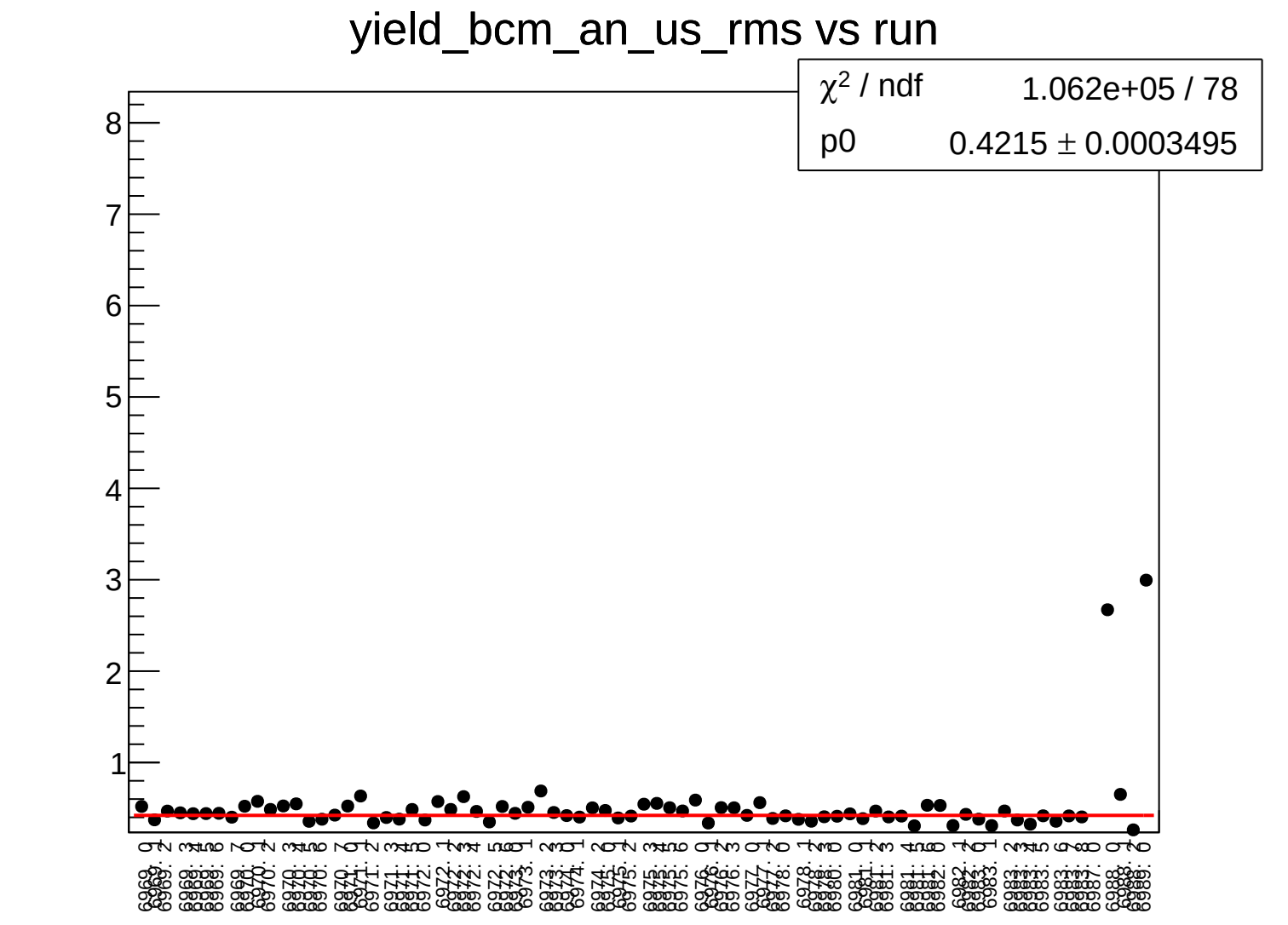

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.627e+08 / 78
p0 148.1± 0.0004975
150
145
140
135
130
125
120
pull
Entries 79
Mean −81.62
Std Dev 130.6
0
−2000
−4000
−6000
−8000
−10000
−12000

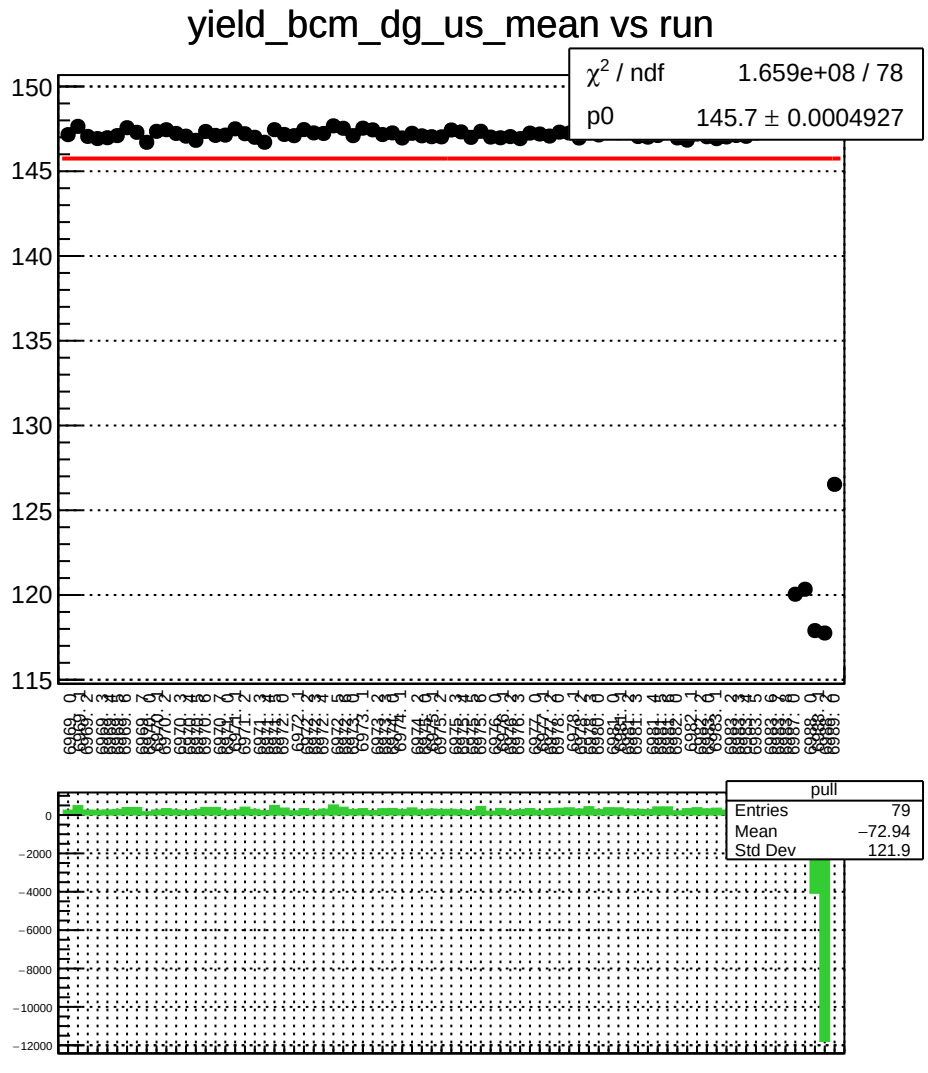

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

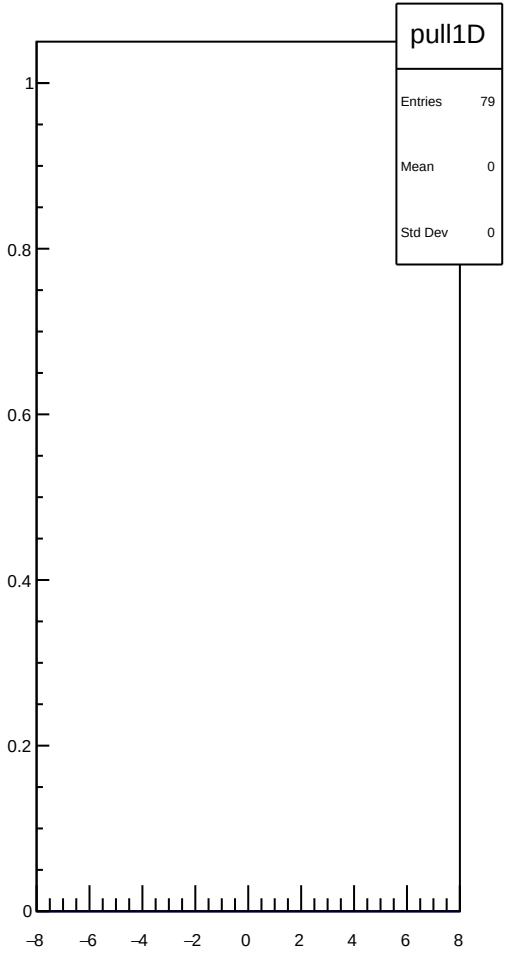

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.056e+05 / 78
p0 0.4243 ± 0.0003518
8
7
6
5
4
3
2
1

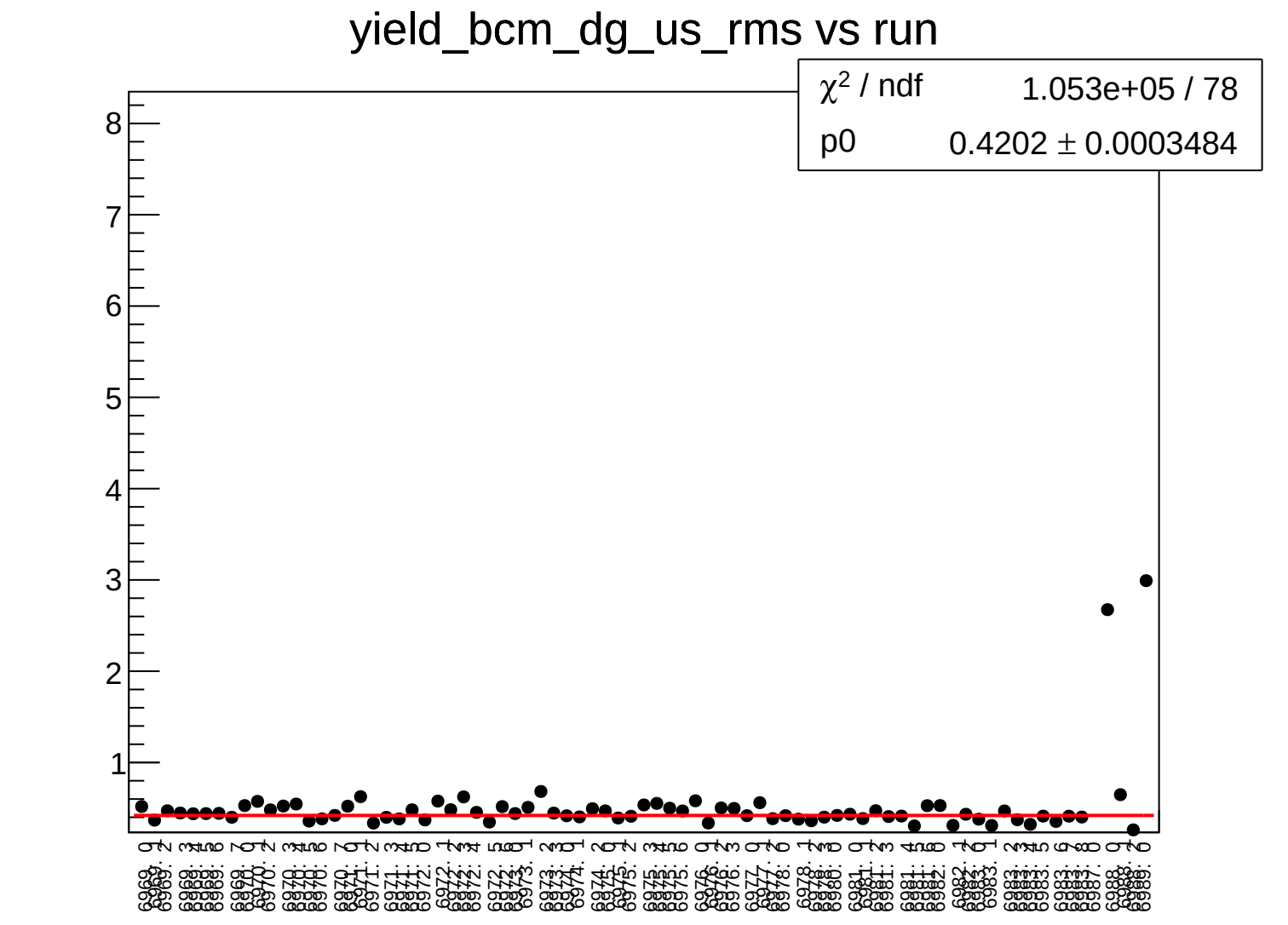

yield_bcm_an_us_mean vs run
χ² / ndf 1.651e+08 / 78
p0 147.3 ± 0.0004943
150
145
140
135
130
125
120
pull
Entries 79
Mean −73.33
Std Dev 122.3
0
−2000
−4000
−6000
−8000
−10000
−12000

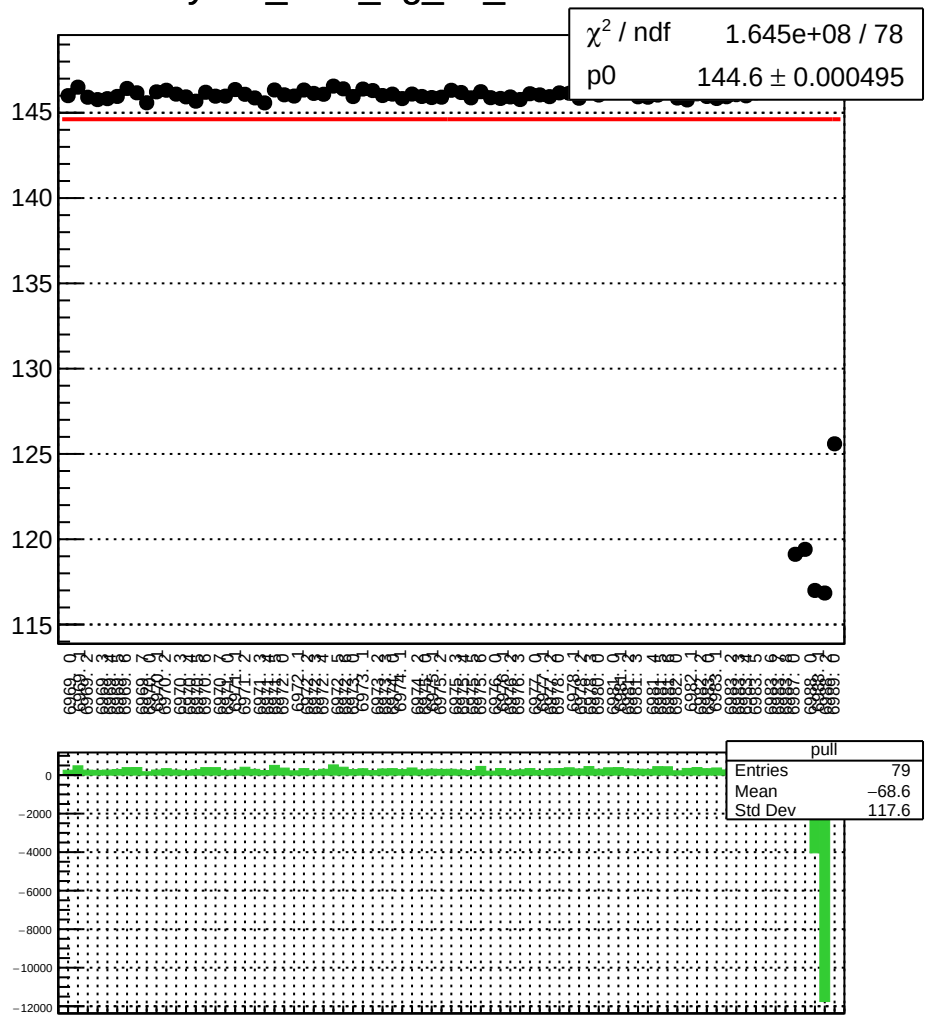

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

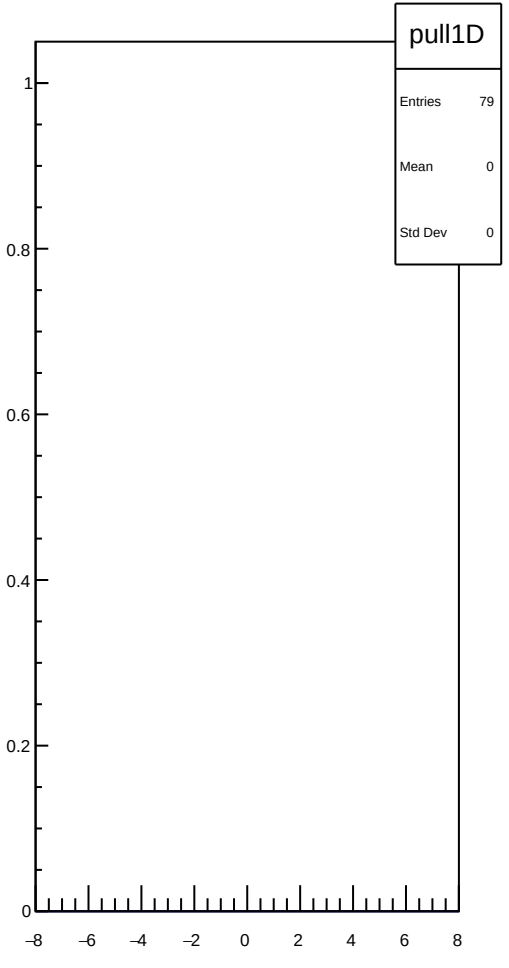

yield_bcm_an_us_rms vs run
χ² / ndf 1.062e+05 / 78
p0 0.4215 ± 0.0003495
8
7
6
5
4
3
2
1

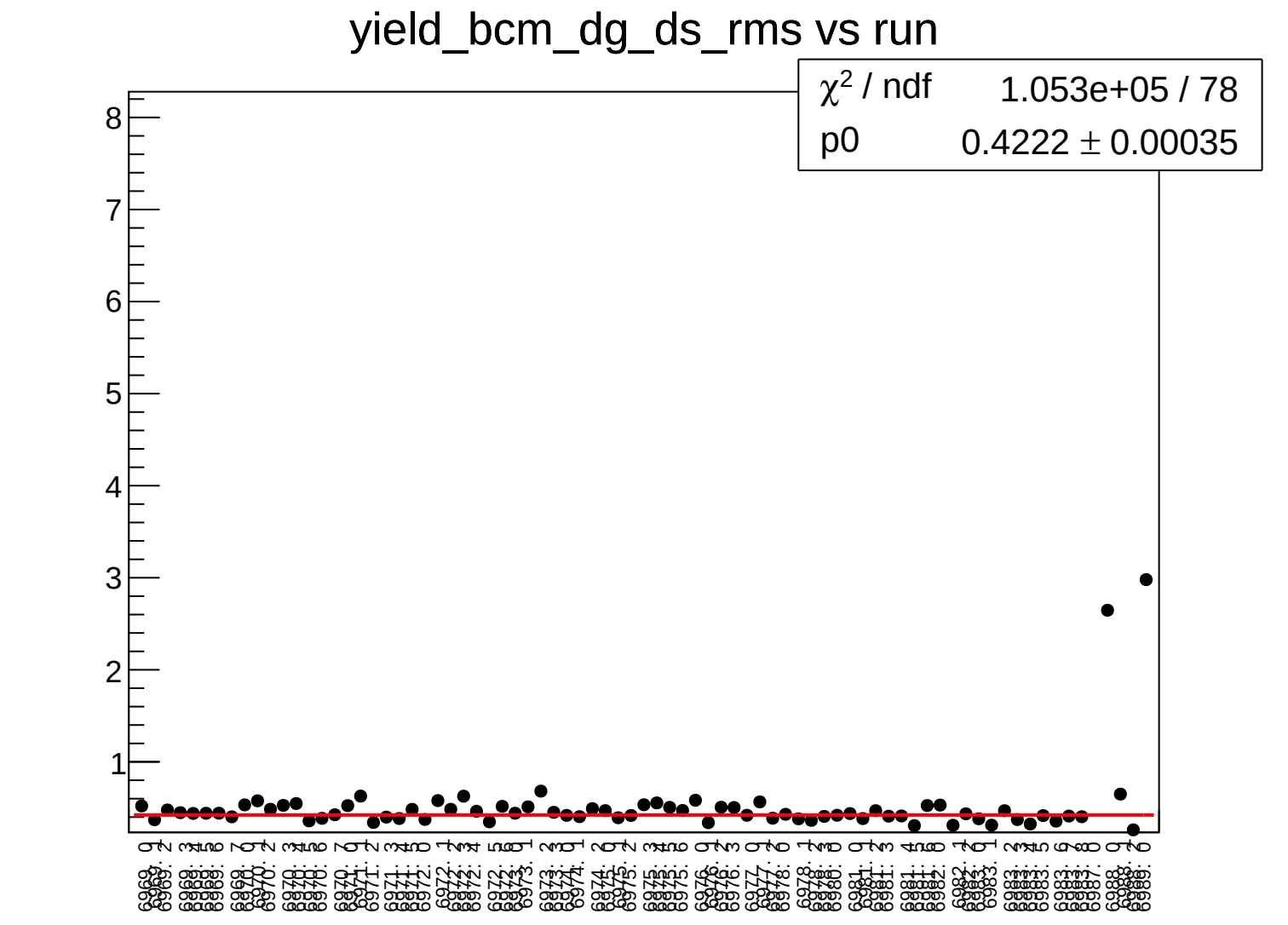

yield_bcm_dg_us_mean vs run
χ² / ndf 1.659e+08 / 78
p0 145.7 ± 0.0004927
150
145
140
135
130
125
120
115
pull
Entries 79
Mean −72.94
Std Dev 121.9
0
−2000
−4000
−6000
−8000
−10000
−12000

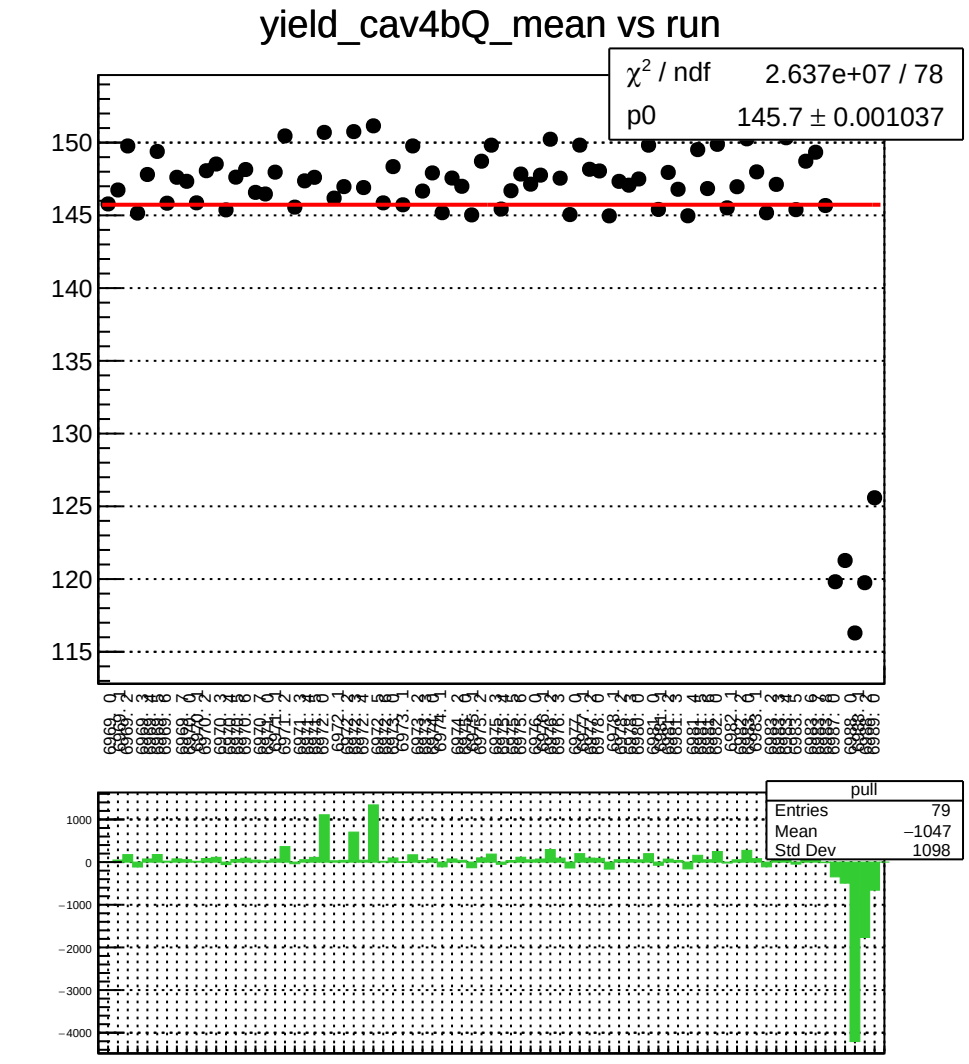

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

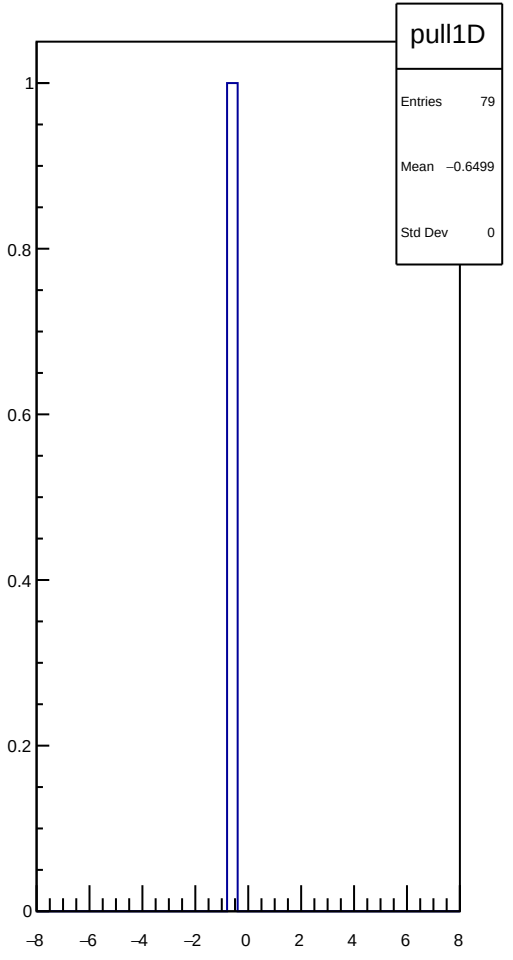

yield_bcm_dg_us_rms vs run
χ² / ndf 1.053e+05 / 78
p0 0.4202 ± 0.0003484
8
7
6
5
4
3
2
1

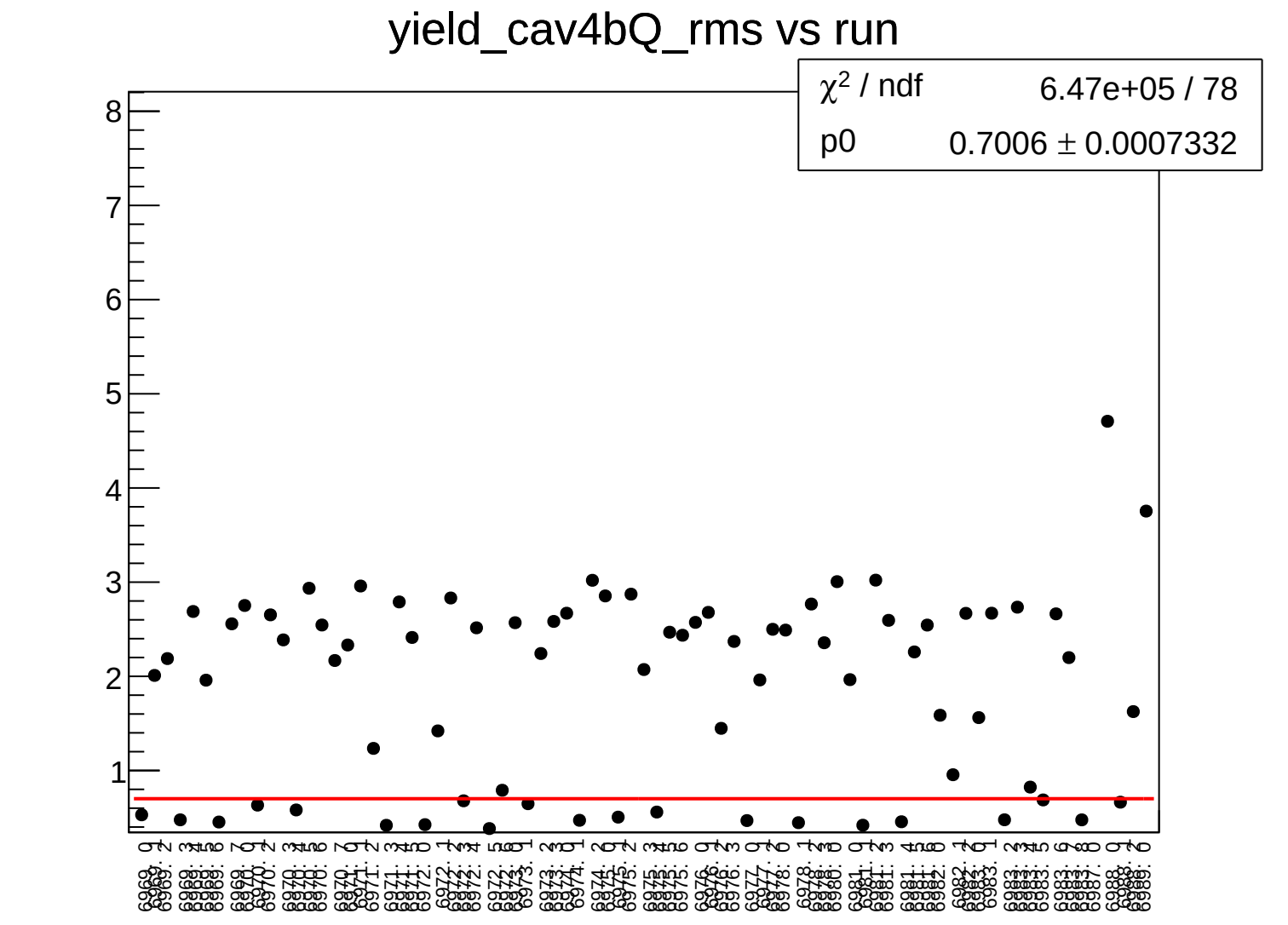

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.645e+08 / 78
p0 144.6 ± 0.000495
145
140
135
130
125
120
115
pull
Entries 79
Mean −68.6
Std Dev 117.6
0
−2000
−4000
−6000
−8000
−10000
−12000

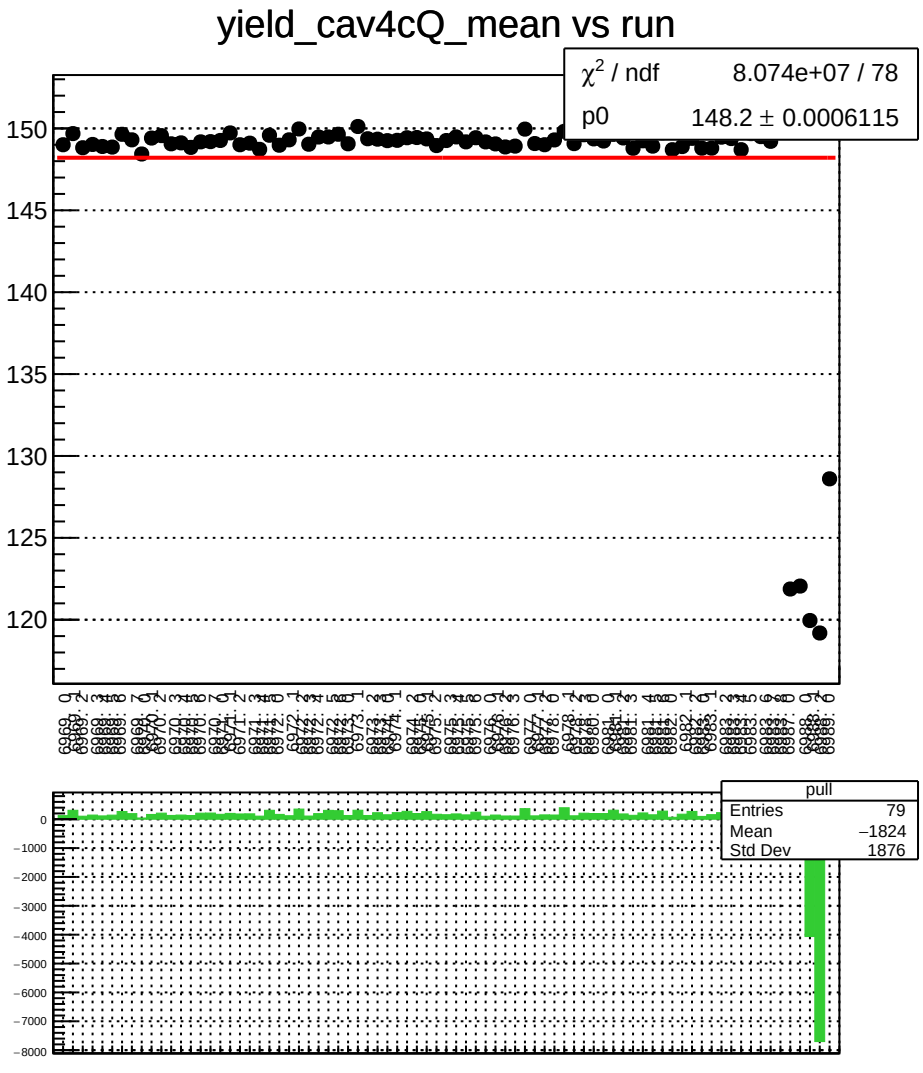

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

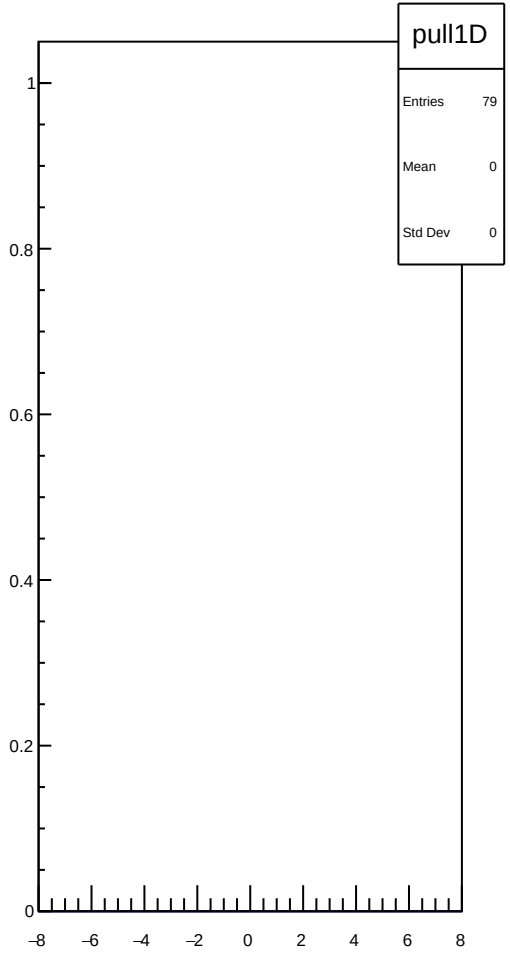

yield_bcm_dg_ds_rms vs run
χ^2 / ndf 1.053e+05 / 78
p0 0.4222 ± 0.00035
8
7
6
5
4
3
2
1

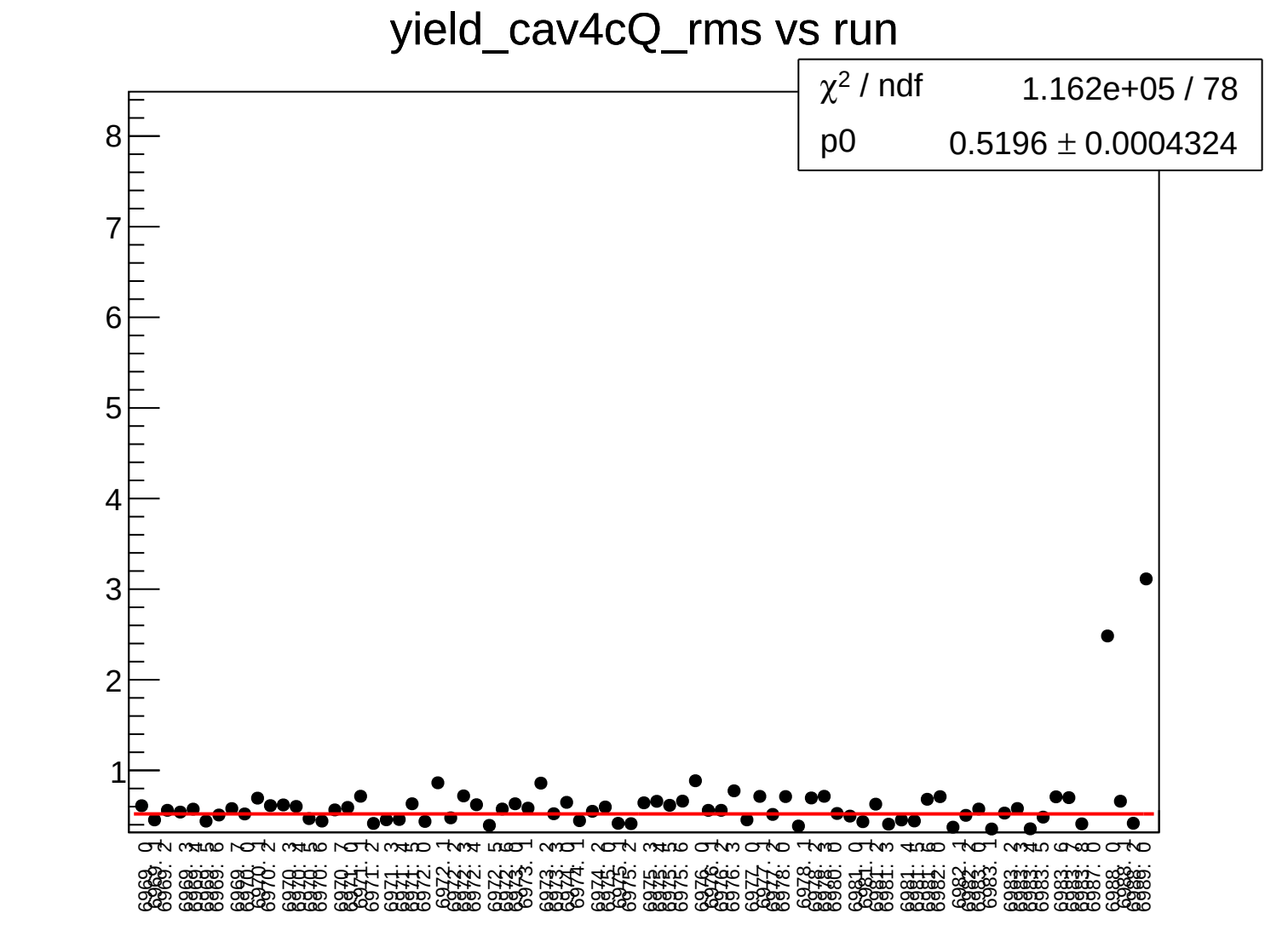

yield_cav4bQ_mean vs run
χ² / ndf 2.637e+07 / 78
p0 145.7 ± 0.001037
150
145
140
135
130
125
120
115
pull
Entries 79
Mean −1047
Std Dev 1098
1000
0
−1000
−2000
−3000
−4000

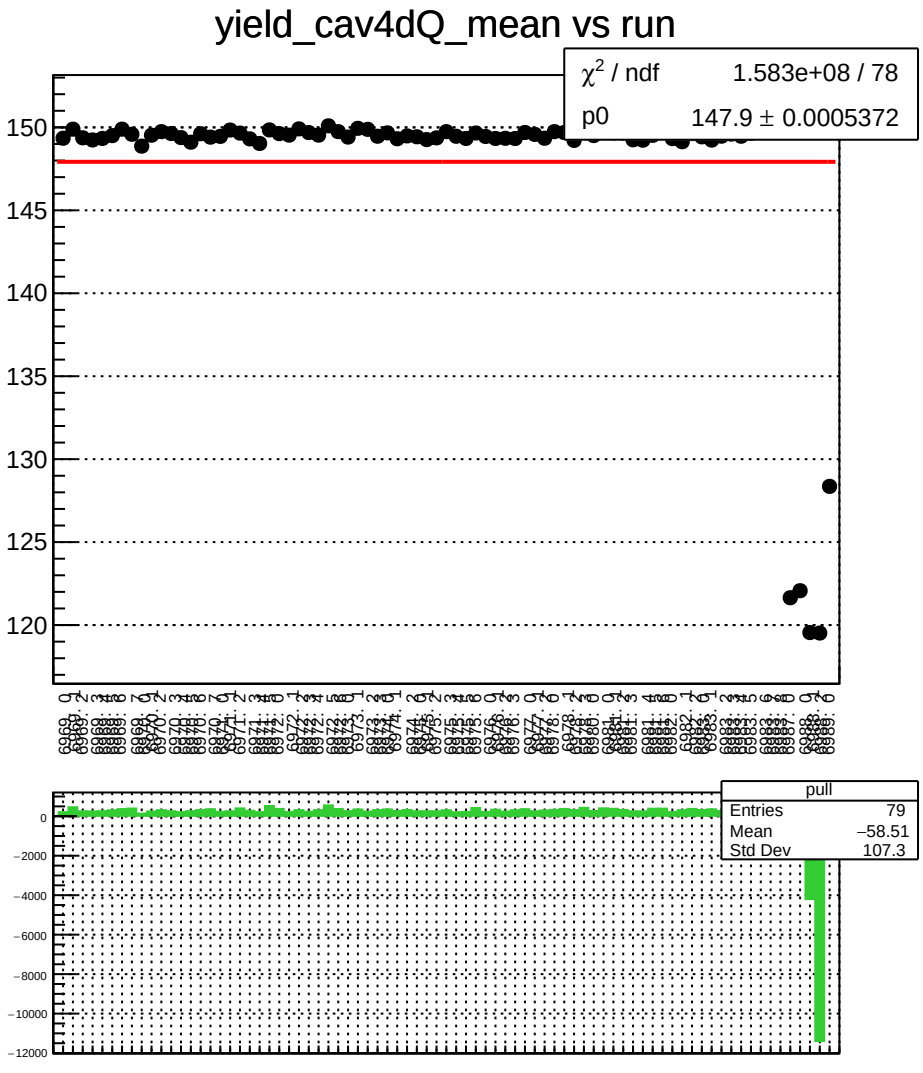

pull1D
Entries 79
Mean −0.6499
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

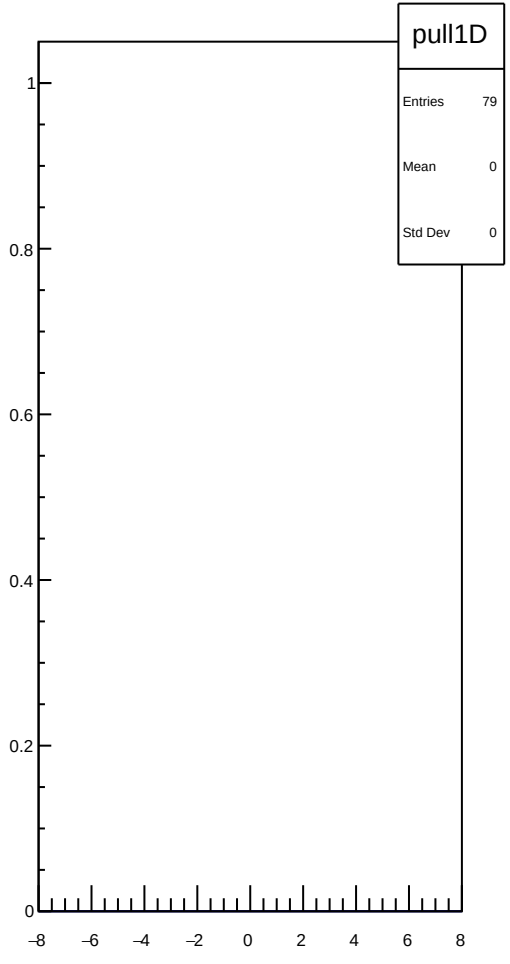

yield_cav4bQ_rms vs run
χ² / ndf 6.47e+05 / 78
p0 0.7006 ± 0.0007332
8
7
6
5
4
3
2
1

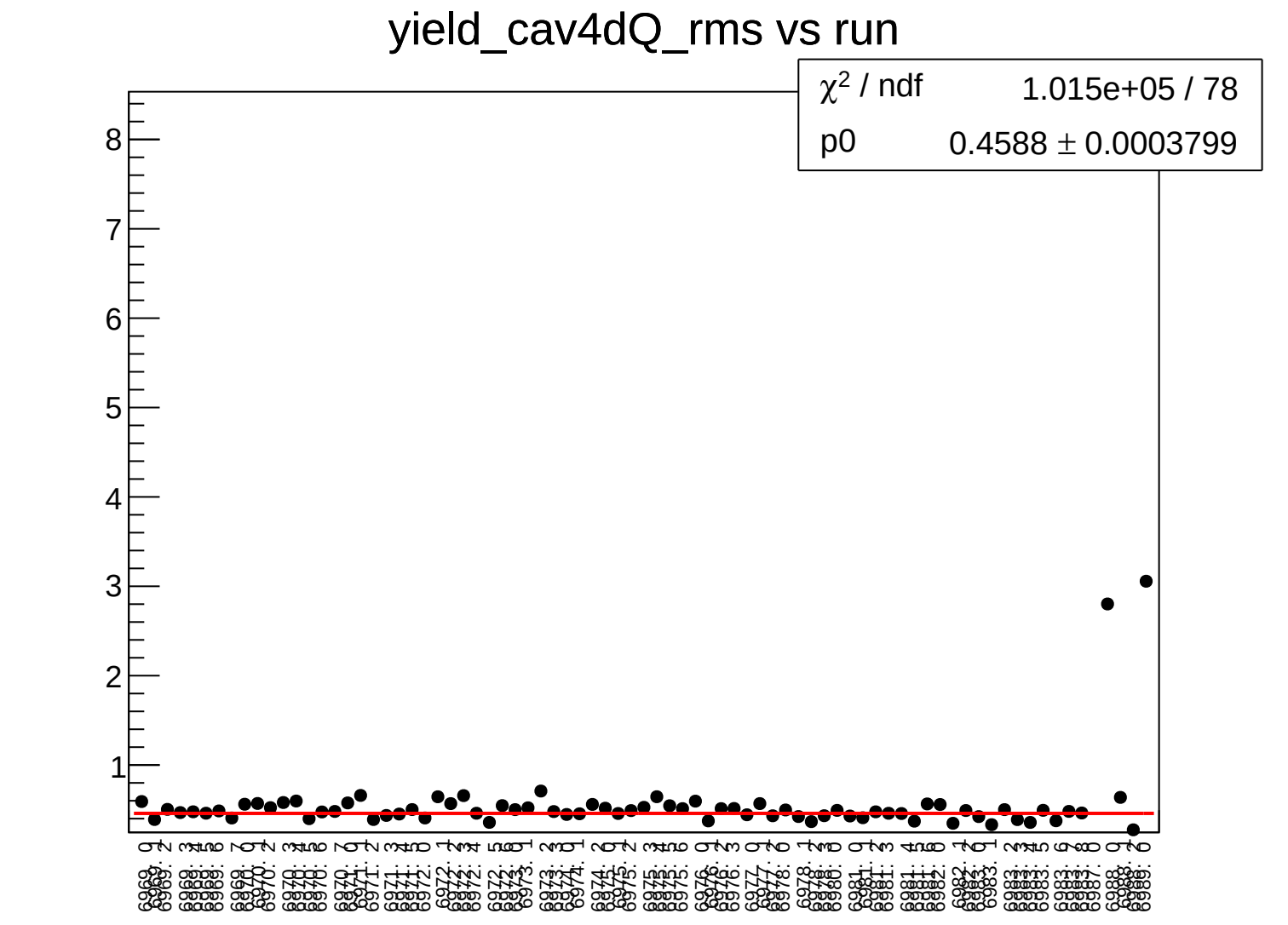

yield_cav4cQ_mean vs run
χ² / ndf 8.074e+07 / 78
p0 148.2 ± 0.0006115
150
145
140
135
130
125
120
pull
Entries 79
Mean −1824
Std Dev 1876
0
−1000
−2000
−3000
−4000
−5000
−6000
−7000
−8000

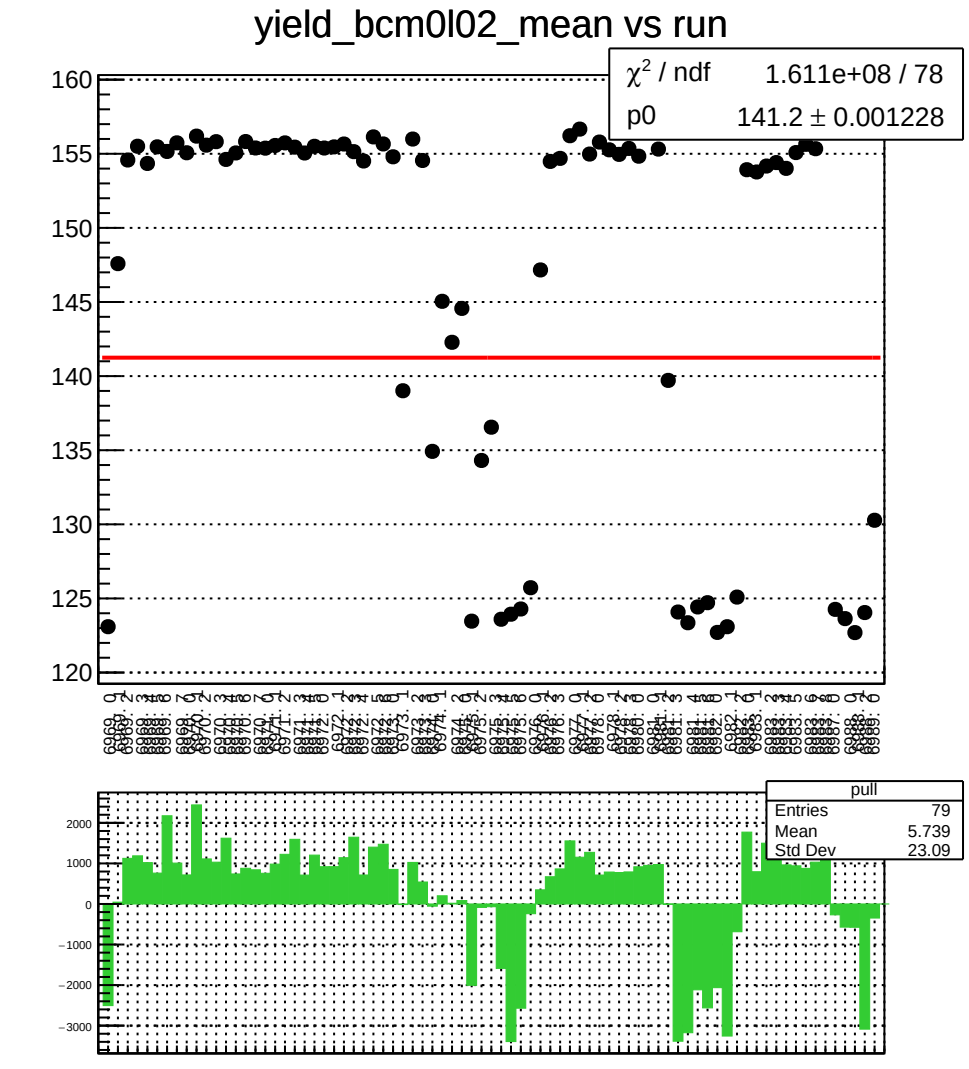

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

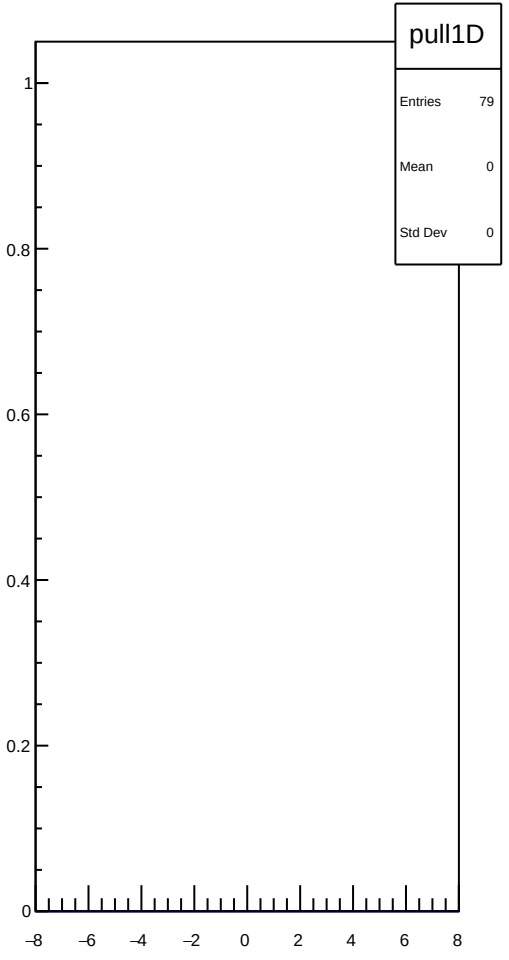

yield_cav4cQ_rms vs run
χ² / ndf 1.162e+05 / 78
p0 0.5196 ± 0.0004324
8
7
6
5
4
3
2
1

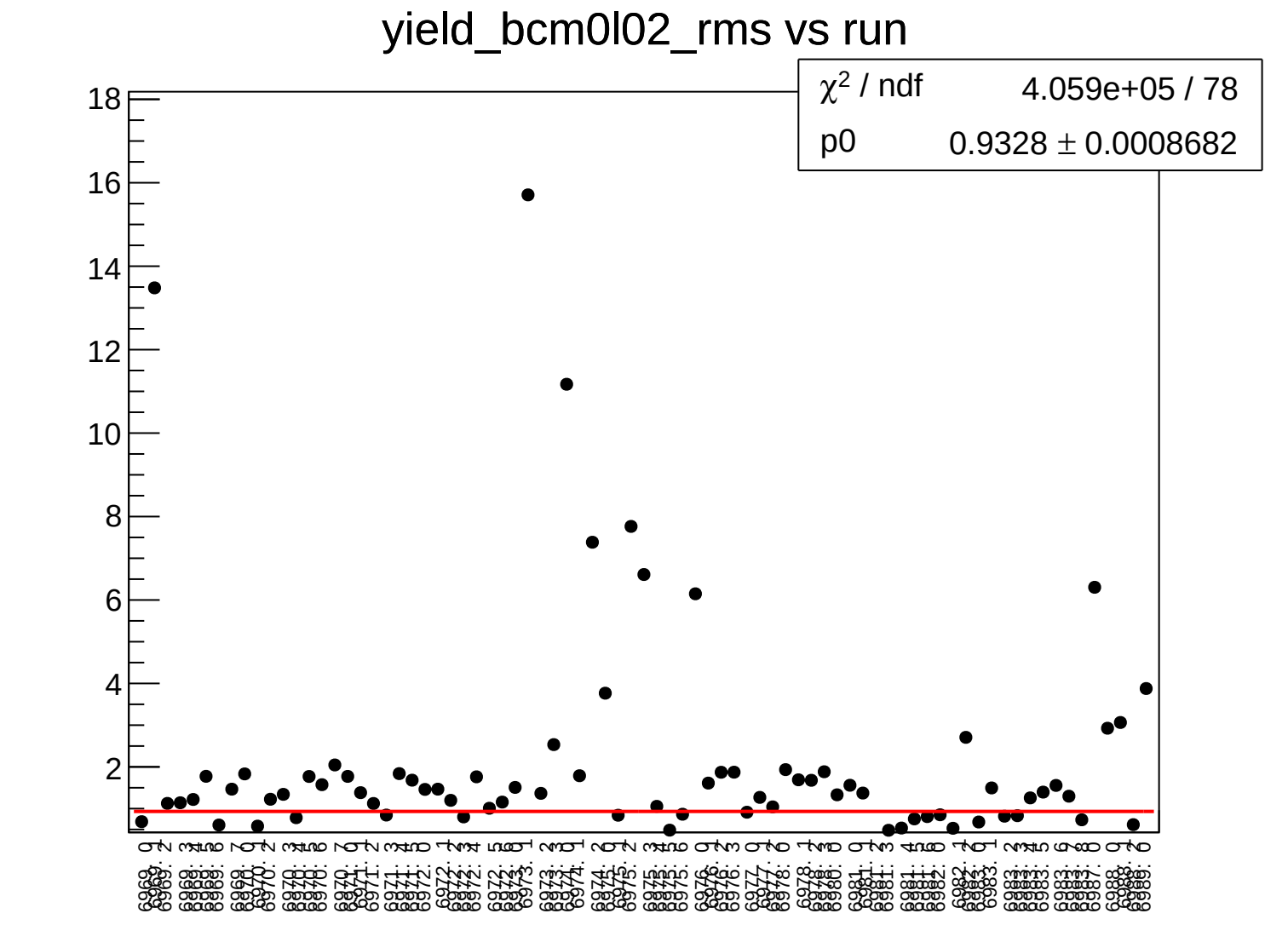

yield_cav4dQ_mean vs run
χ² / ndf 1.583e+08 / 78
p0 147.9 ± 0.0005372
150
145
140
135
130
125
120
pull
Entries 79
Mean −58.51
Std Dev 107.3
0
−2000
−4000
−6000
−8000
−10000
−12000

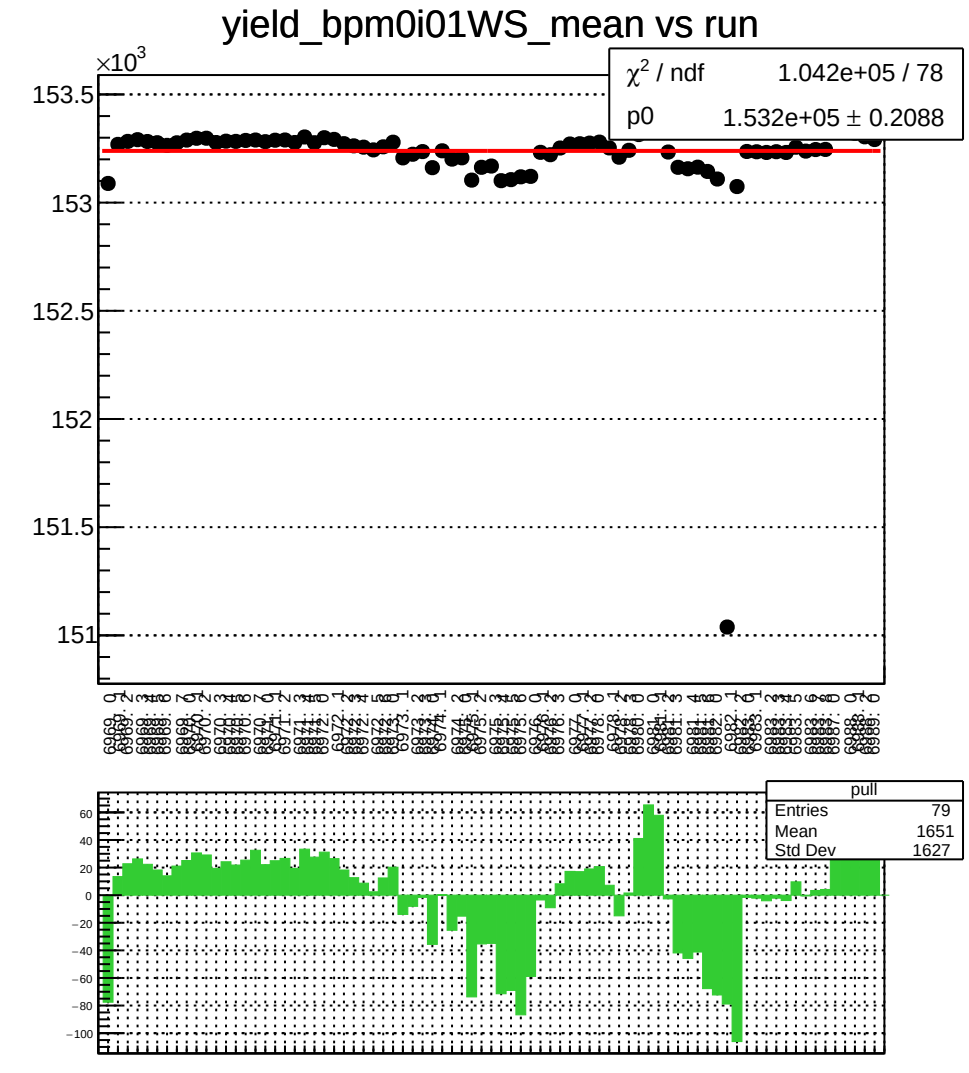

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

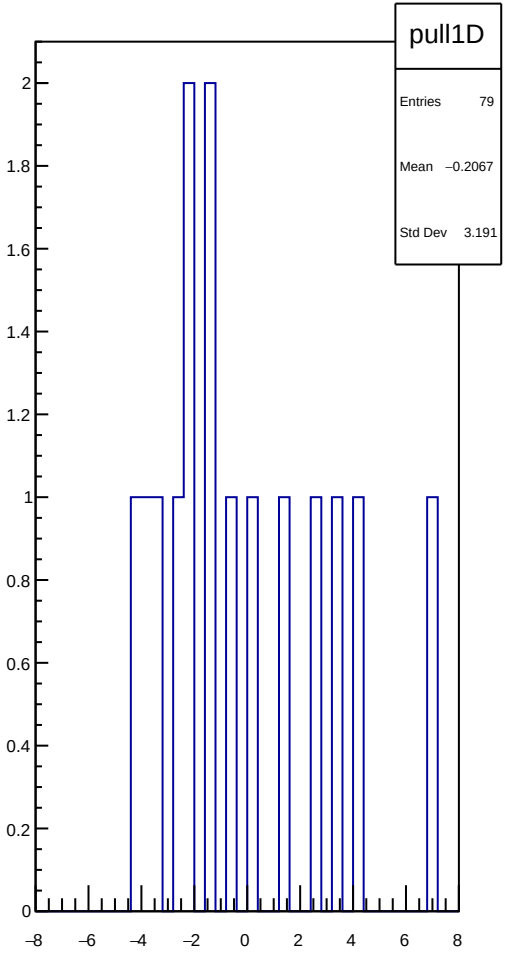

yield_cav4dQ_rms vs run
χ² / ndf 1.015e+05 / 78
p0 0.4588 ± 0.0003799
8
7
6
5
4
3
2
1

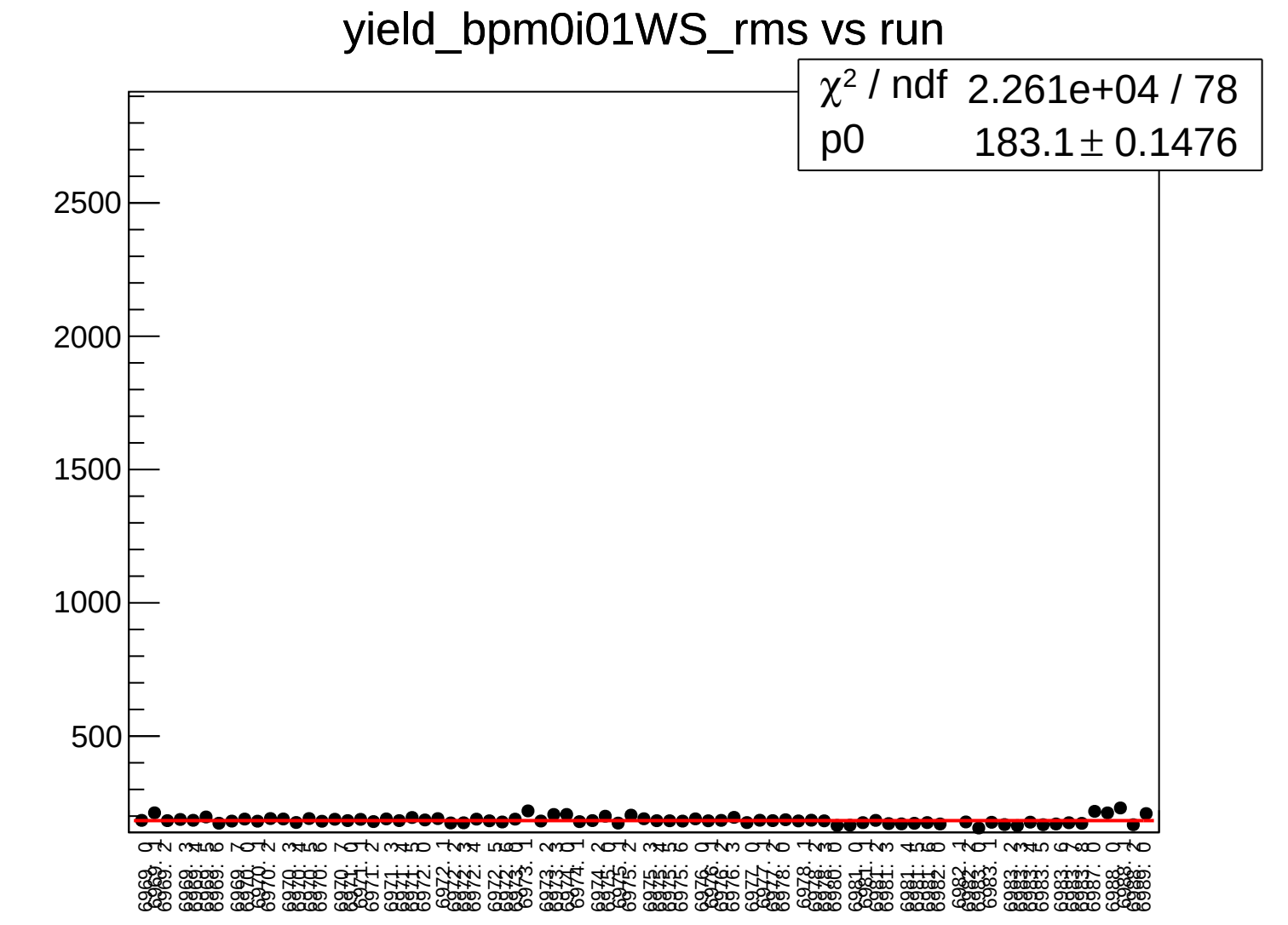

yield_bcm0l02_mean vs run
χ² / ndf 1.611e+08 / 78
p0 141.2 ± 0.001228
160
155
150
145
140
135
130
125
120
pull
Entries 79
Mean 5.739
Std Dev 23.09
2000
1000
0
−1000
−2000
−3000

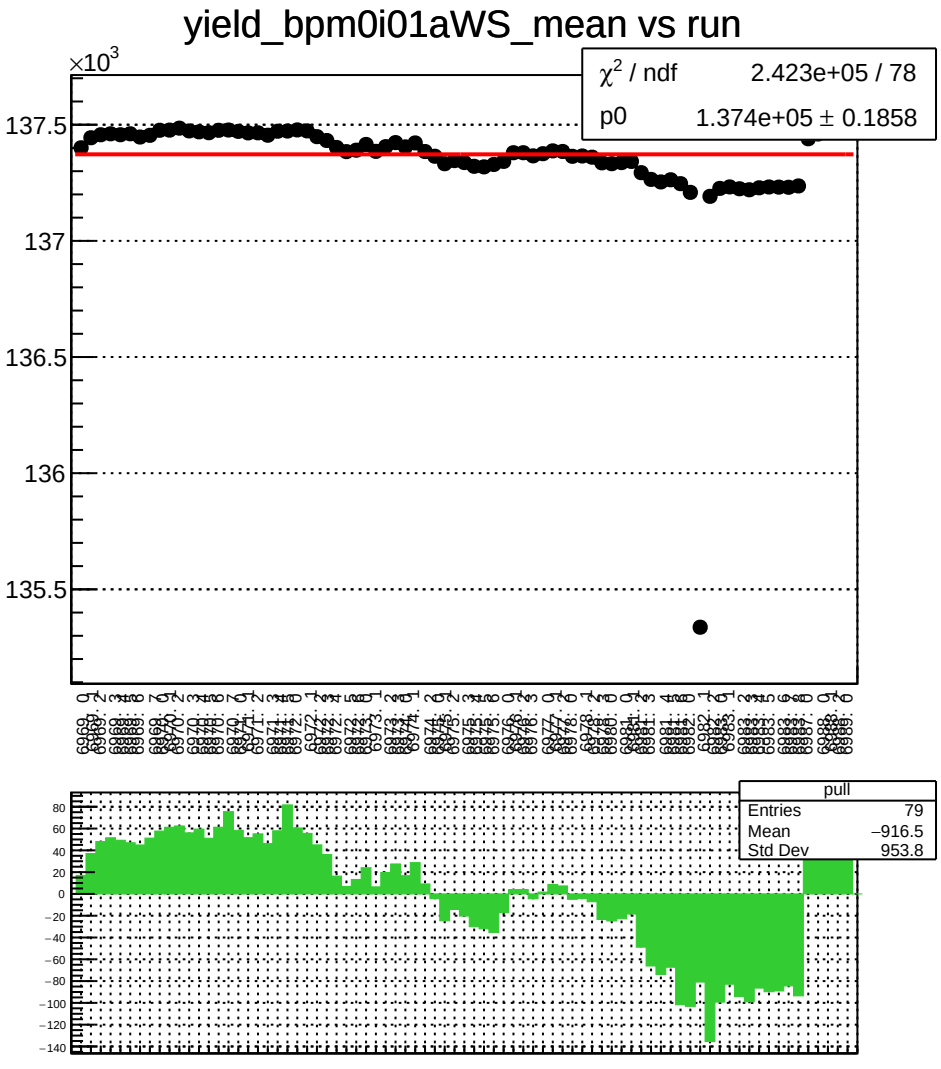

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

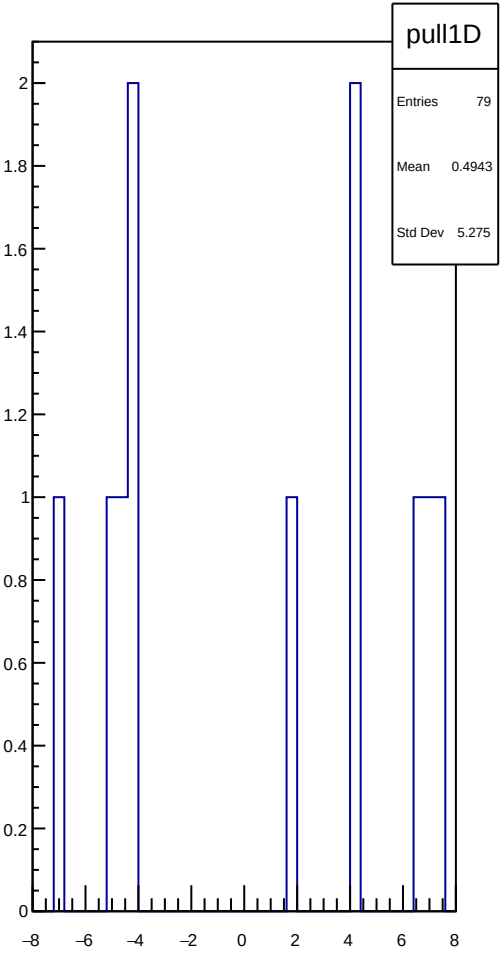

yield_bcm0l02_rms vs run
χ² / ndf 4.059e+05 / 78
p0 0.9328 ± 0.0008682
18
16
14
12
10
8
6
4
2

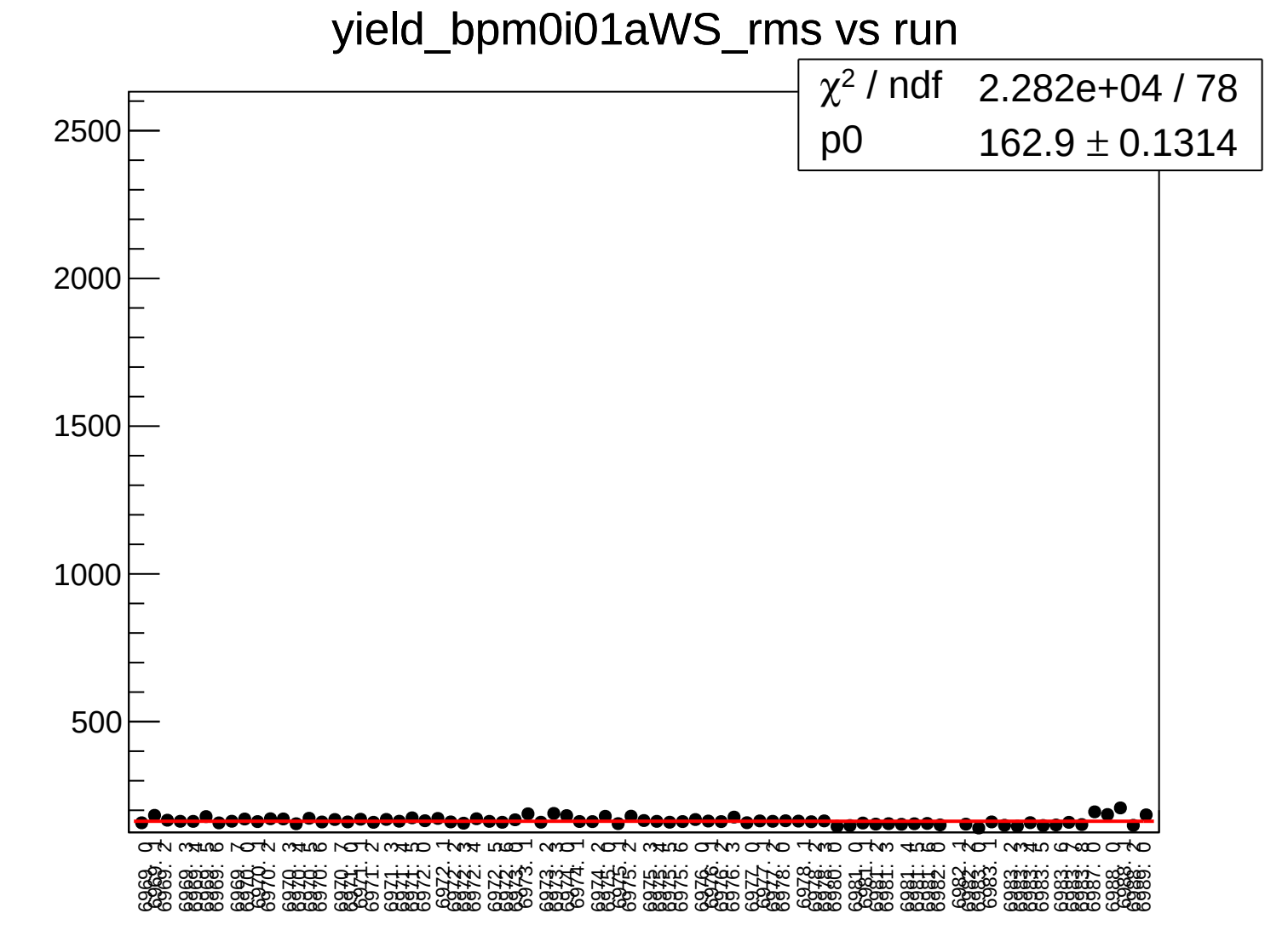

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 1.042e+05 / 78
p0 1.532e+05 ± 0.2088
153.5
153
152.5
152
151.5
151
pull
Entries 79
Mean 1651
Std Dev 1627
60
40
20
0
−20
−40
−60
−80
−100

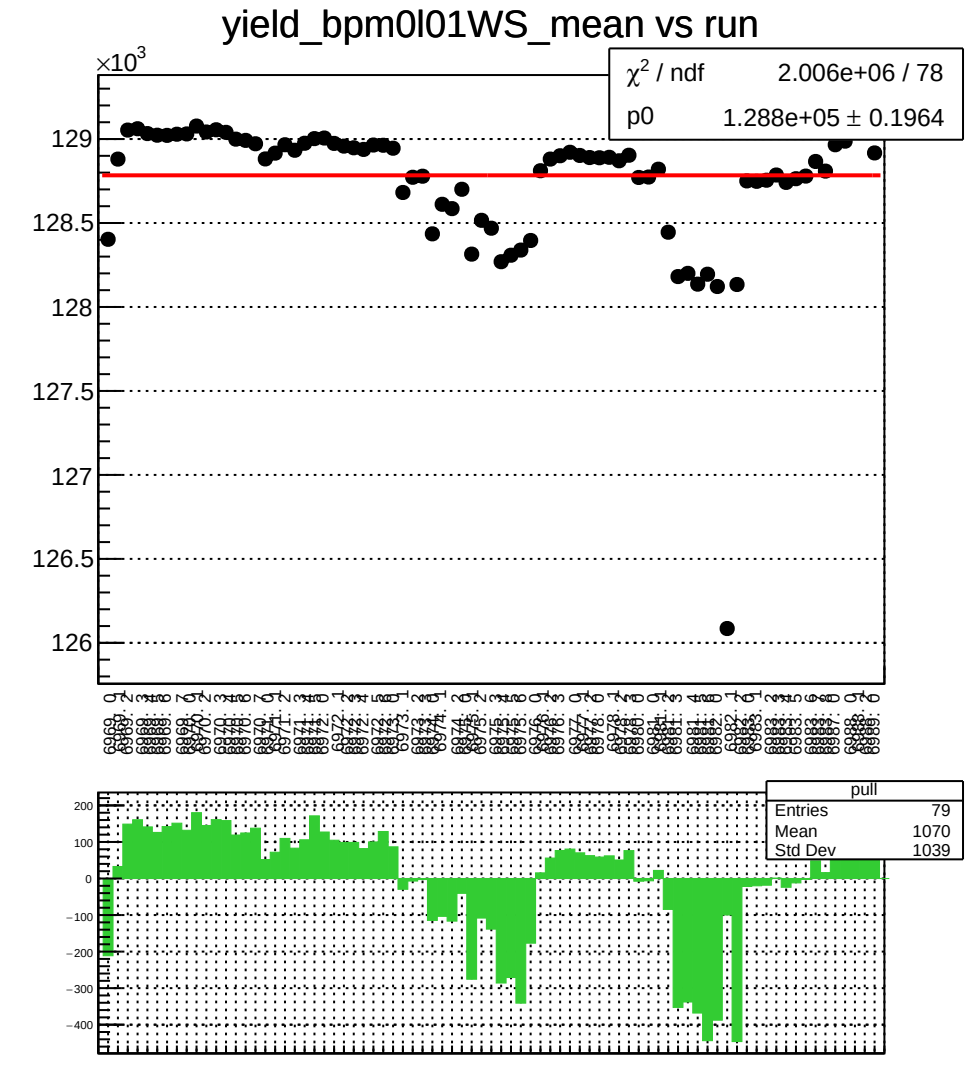

pull1D
Entries 79
Mean −0.2067
Std Dev 3.191
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

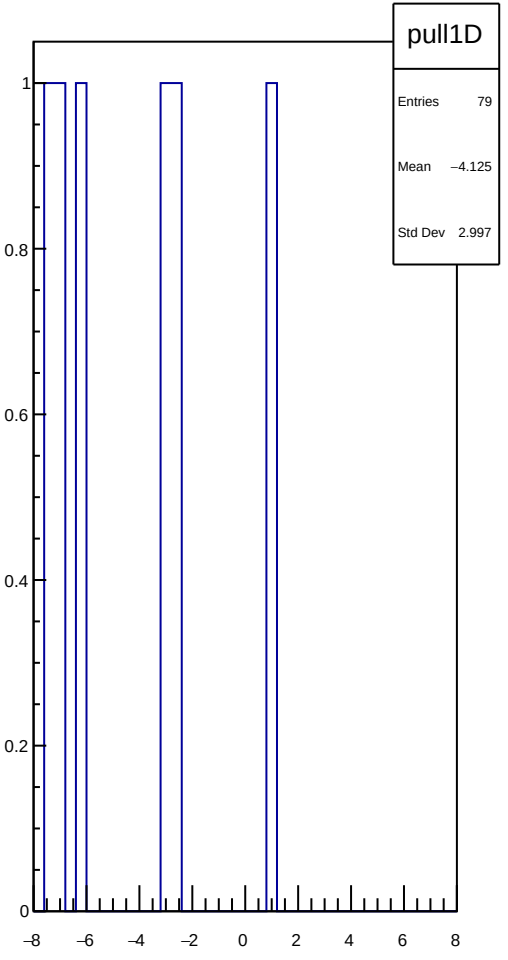

yield_bpm0i01WS_rms vs run
χ² / ndf 2.261e+04 / 78
p0 183.1 ± 0.1476
2500
2000
1500
1000
500

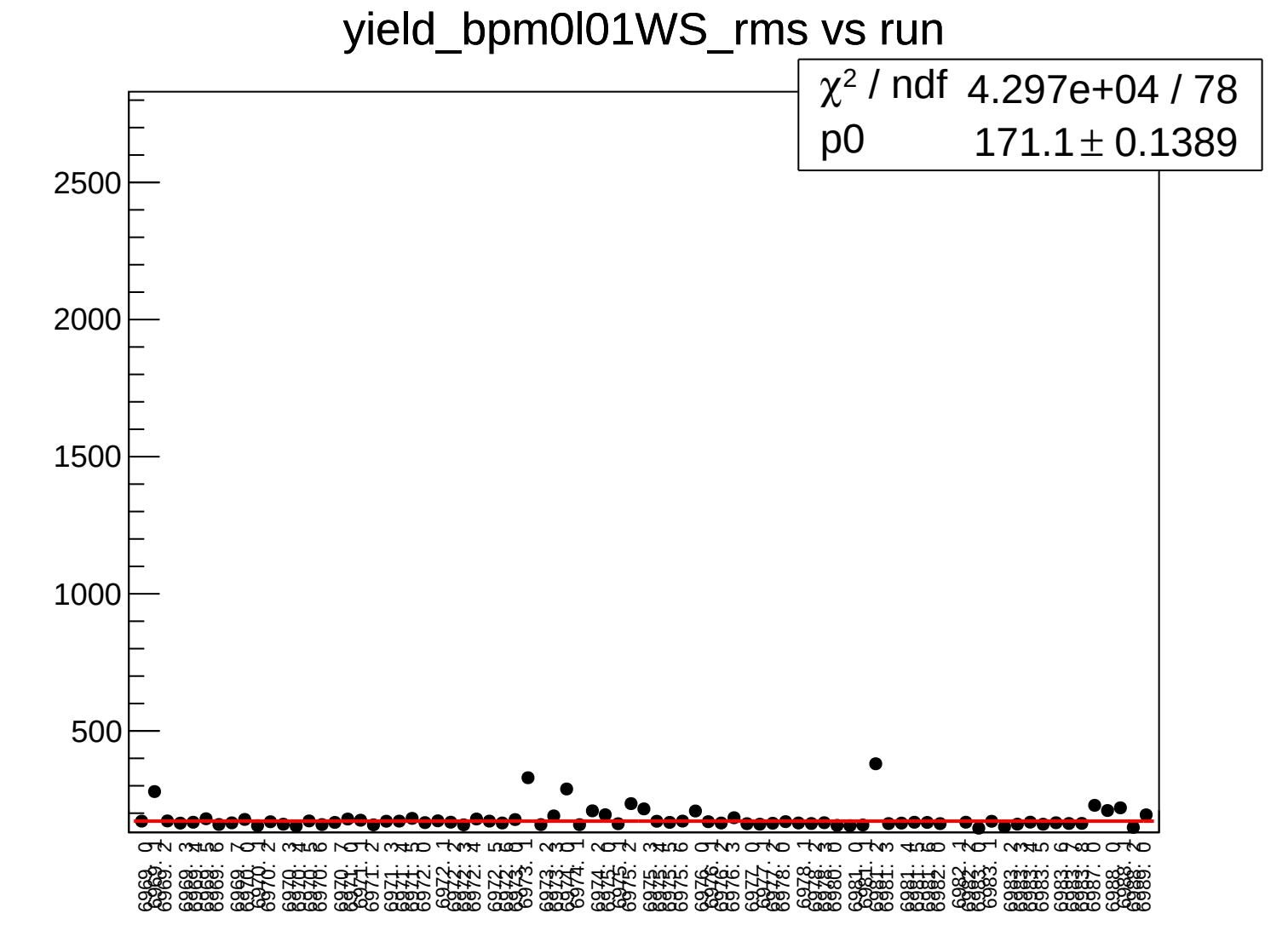

yield_bpm0i01aWS_mean vs run
χ² / ndf 2.423e+05 / 78
p0 1.374e+05 ± 0.1858
×10³
137.5
137
136.5
136
135.5
pull
Entries 79
Mean −916.5
Std Dev 953.8

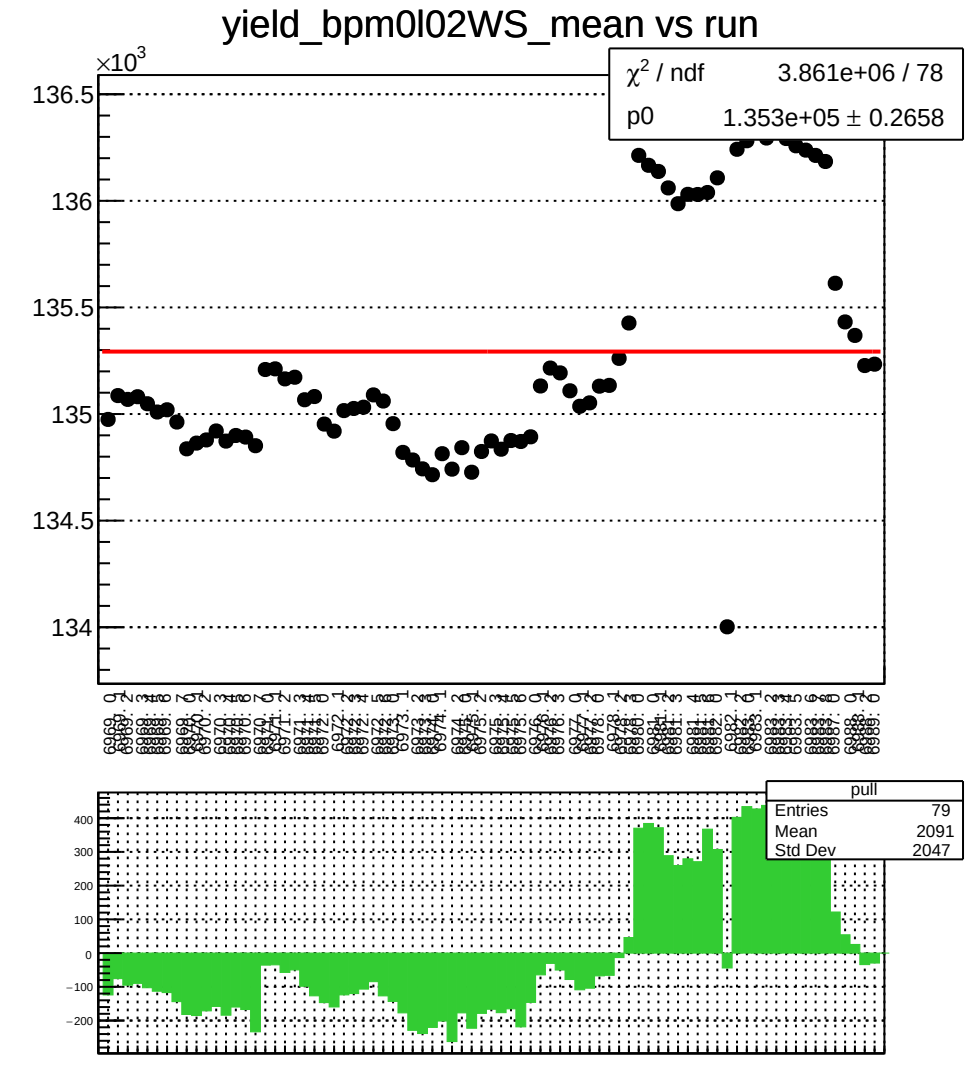

pull1D
Entries 79
Mean 0.4943
Std Dev 5.275

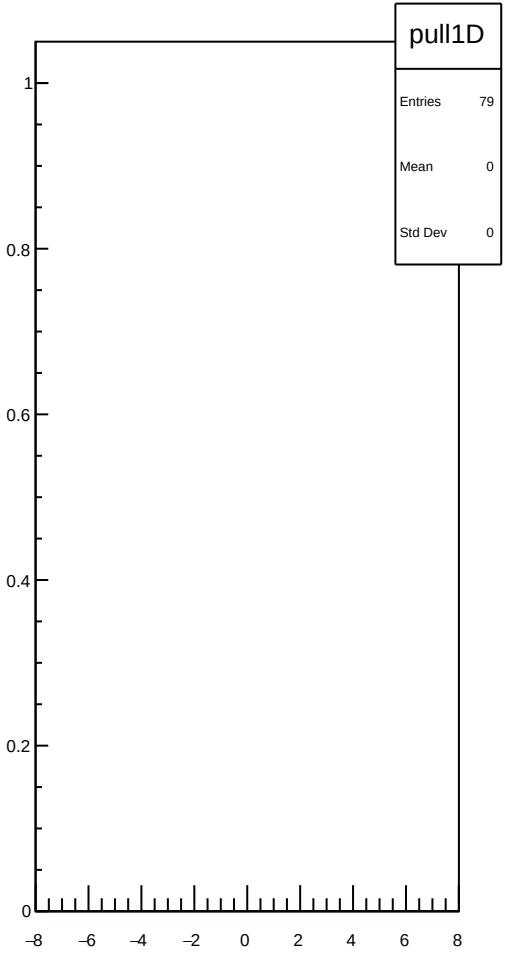

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.282e+04 / 78
p0 162.9 ± 0.1314
2500
2000
1500
1000
500

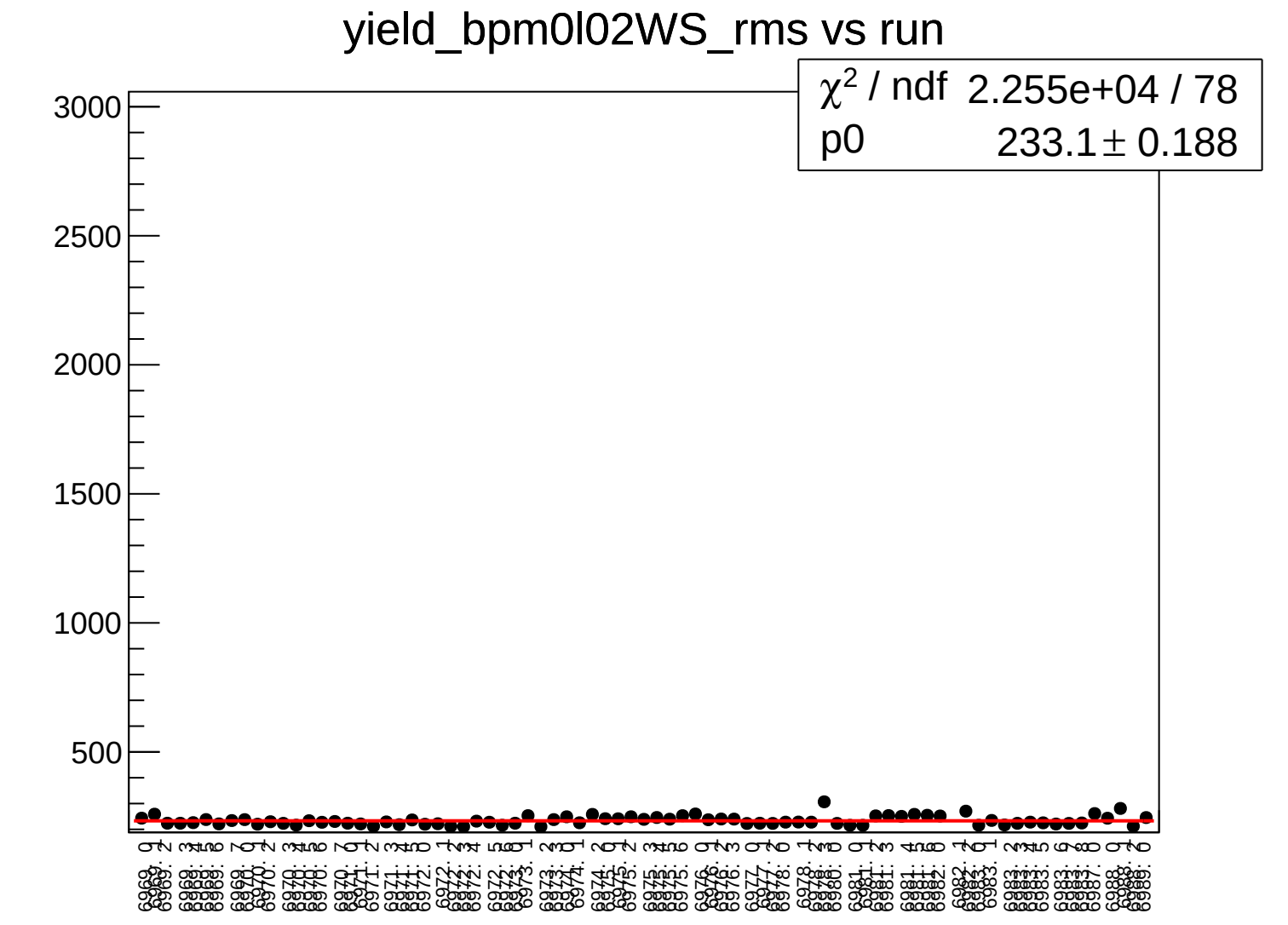

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.006e+06 / 78
p0 1.288e+05 ± 0.1964
129
128.5
128
127.5
127
126.5
126
pull
Entries 79
Mean 1070
Std Dev 1039
200
100
0
−100
−200
−300
−400

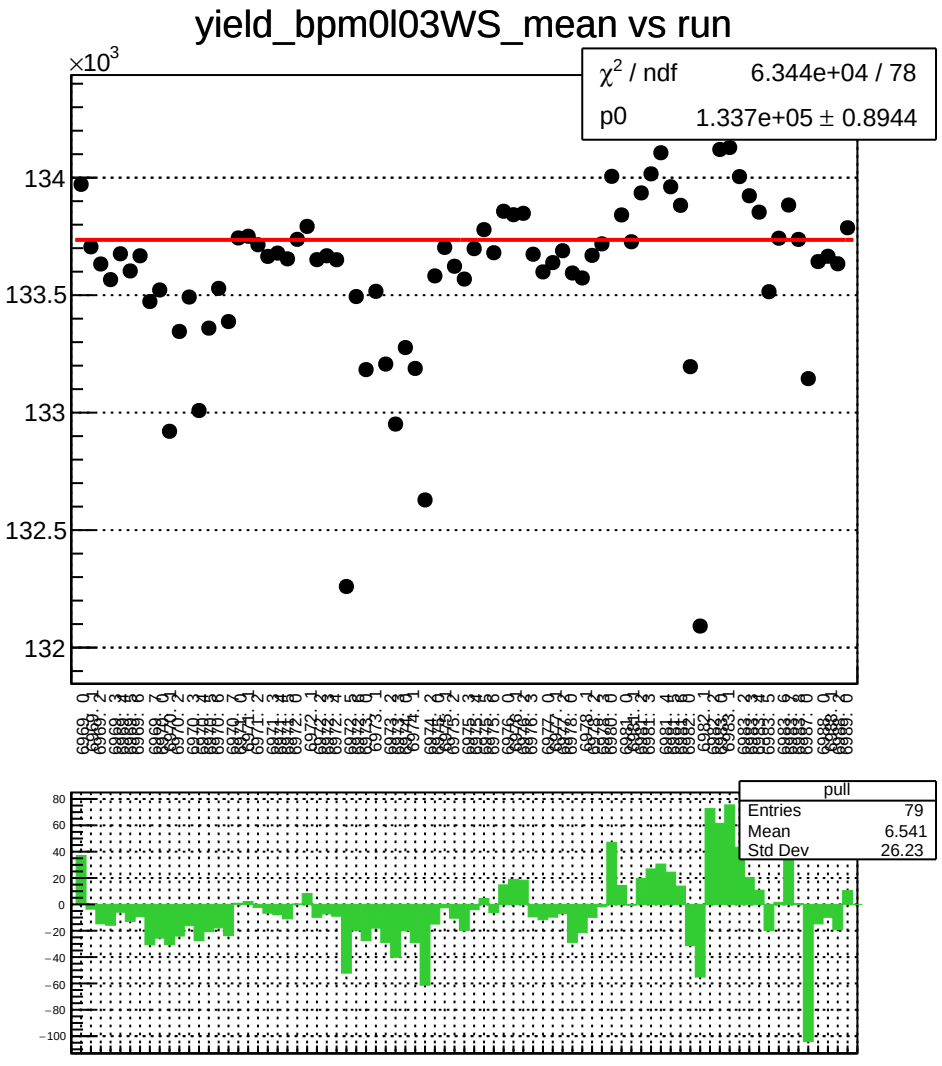

pull1D
Entries 79
Mean −4.125
Std Dev 2.997
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

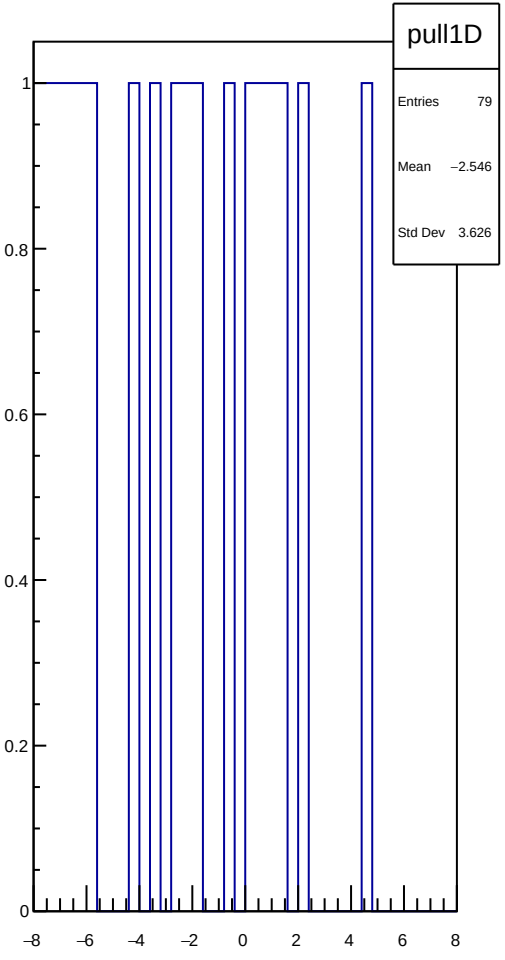

yield_bpm0l01WS_rms vs run
χ² / ndf 4.297e+04 / 78
p0 171.1 ± 0.1389
2500
2000
1500
1000
500

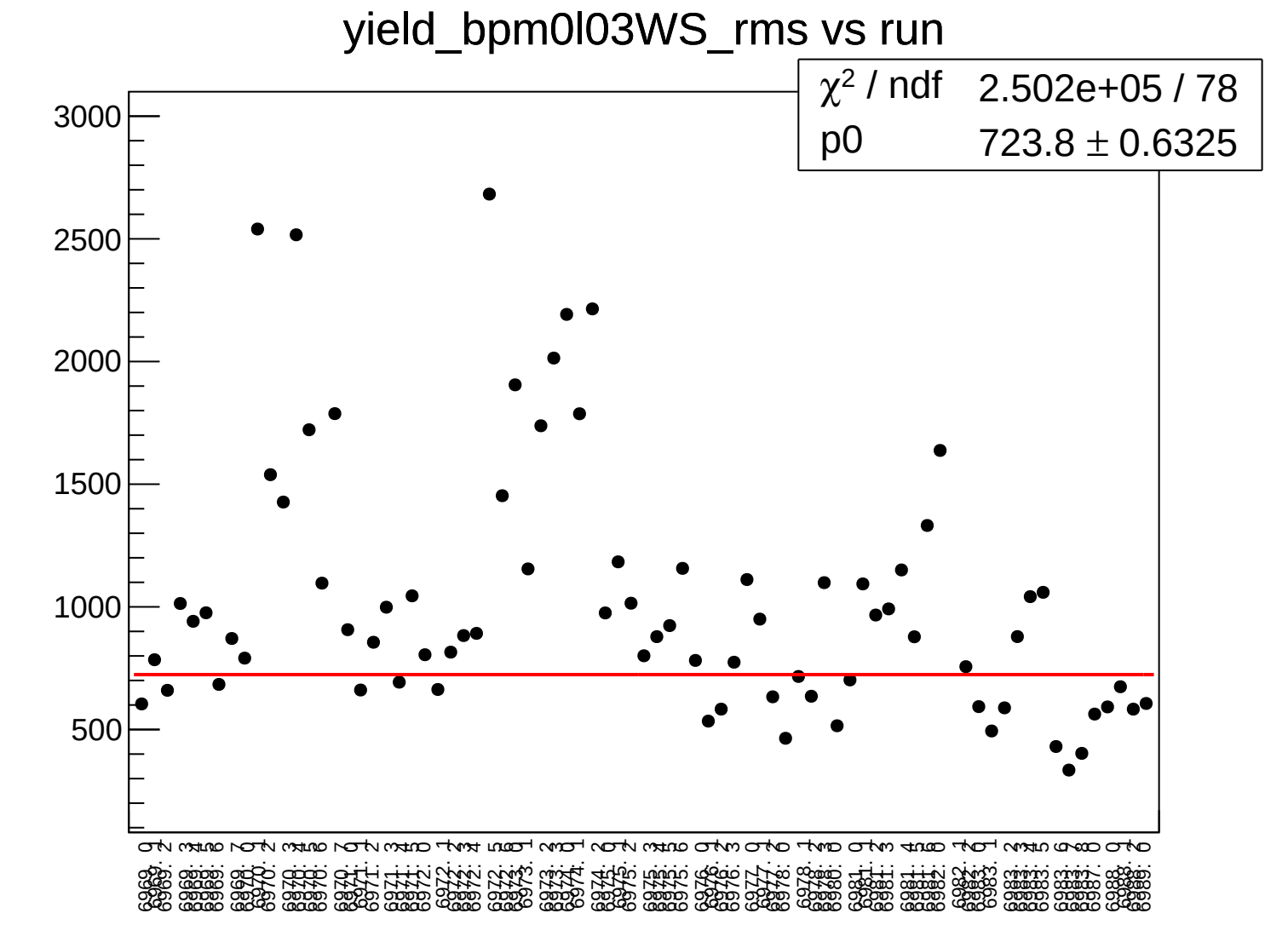

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 3.861e+06 / 78
p0 1.353e+05 ± 0.2658
136.5
136
135.5
135
134.5
134
pull
Entries 79
Mean 2091
Std Dev 2047
400
300
200
100
0
−100
−200

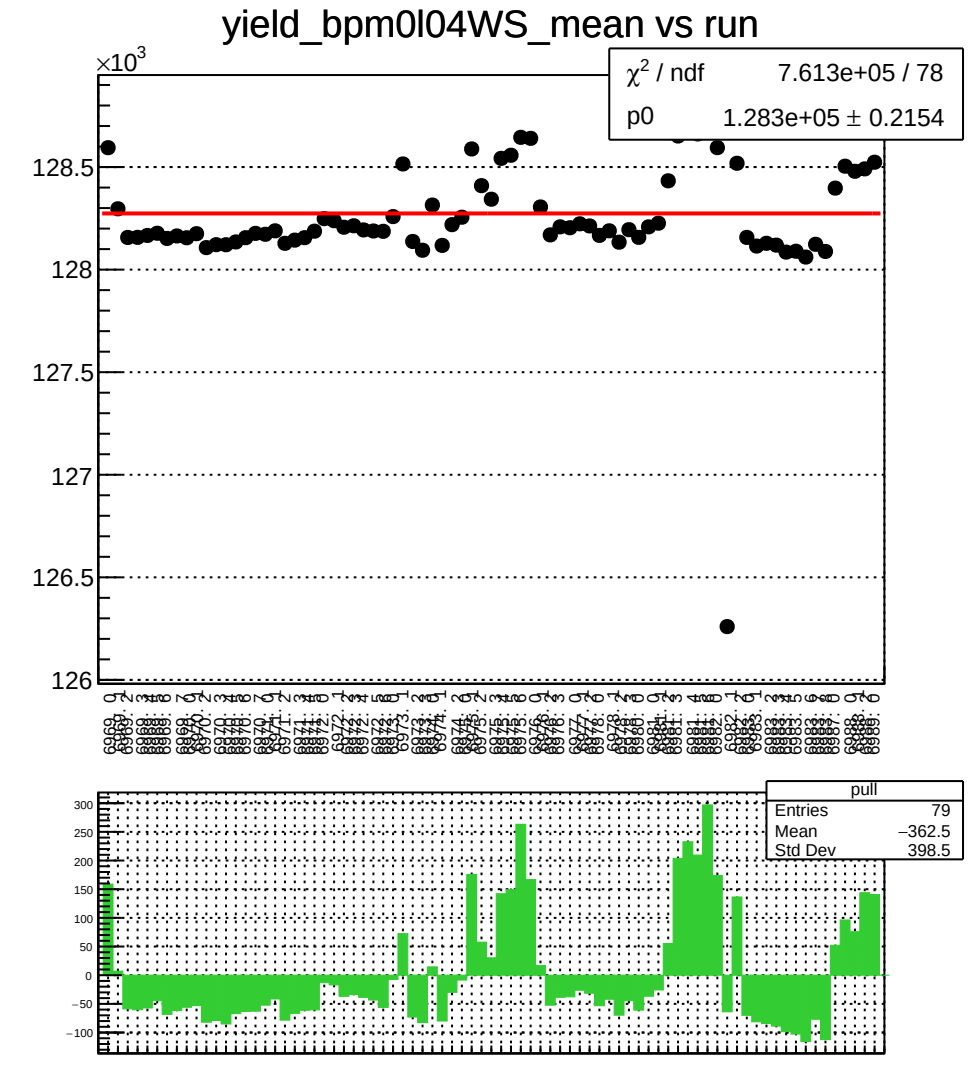

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

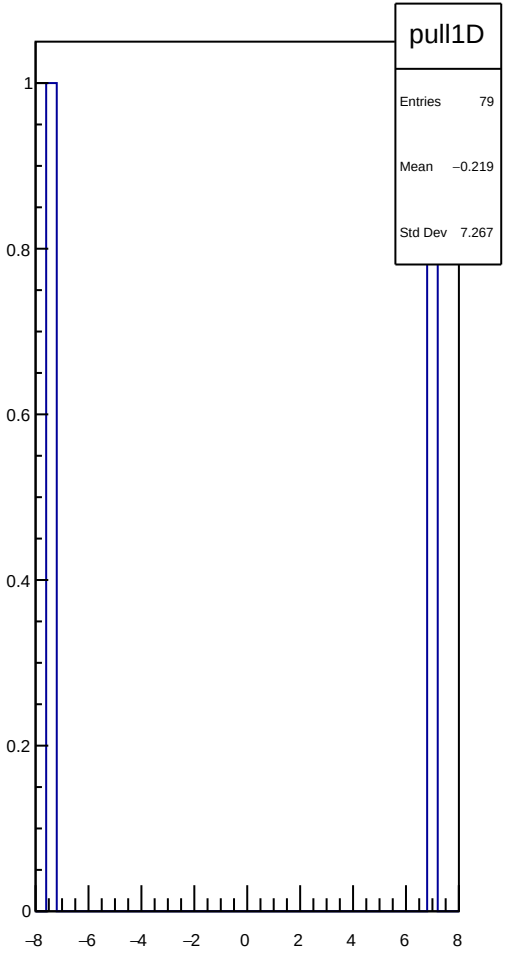

yield_bpm0l02WS_rms vs run
χ² / ndf 2.255e+04 / 78
p0 233.1 ± 0.188
3000
2500
2000
1500
1000
500

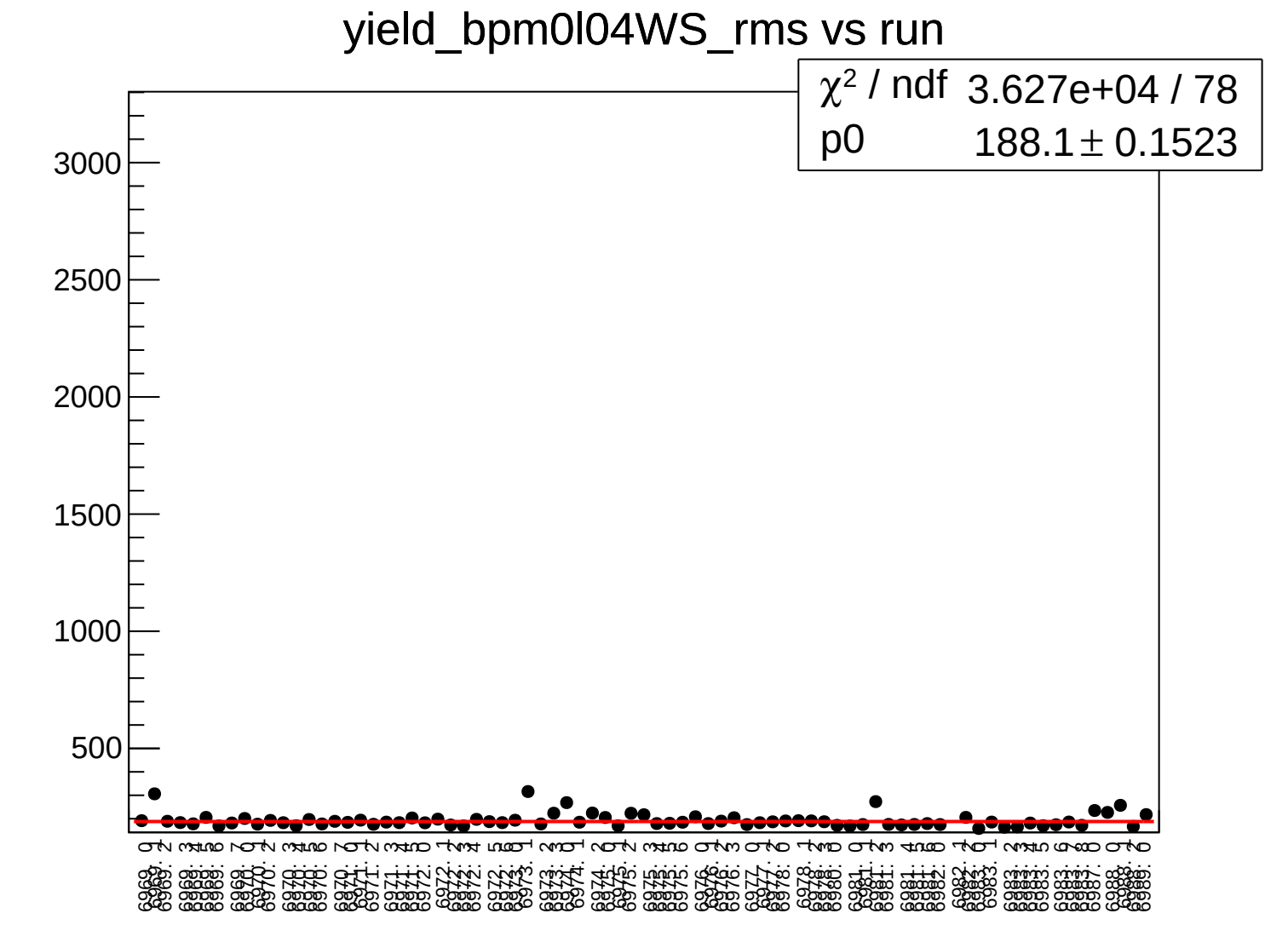

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 6.344e+04 / 78
p0 1.337e+05 ± 0.8944
134
133.5
133
132.5
132
pull
Entries 79
Mean 6.541
Std Dev 26.23
80
60
40
20
0
−20
−40
−60
−80
−100

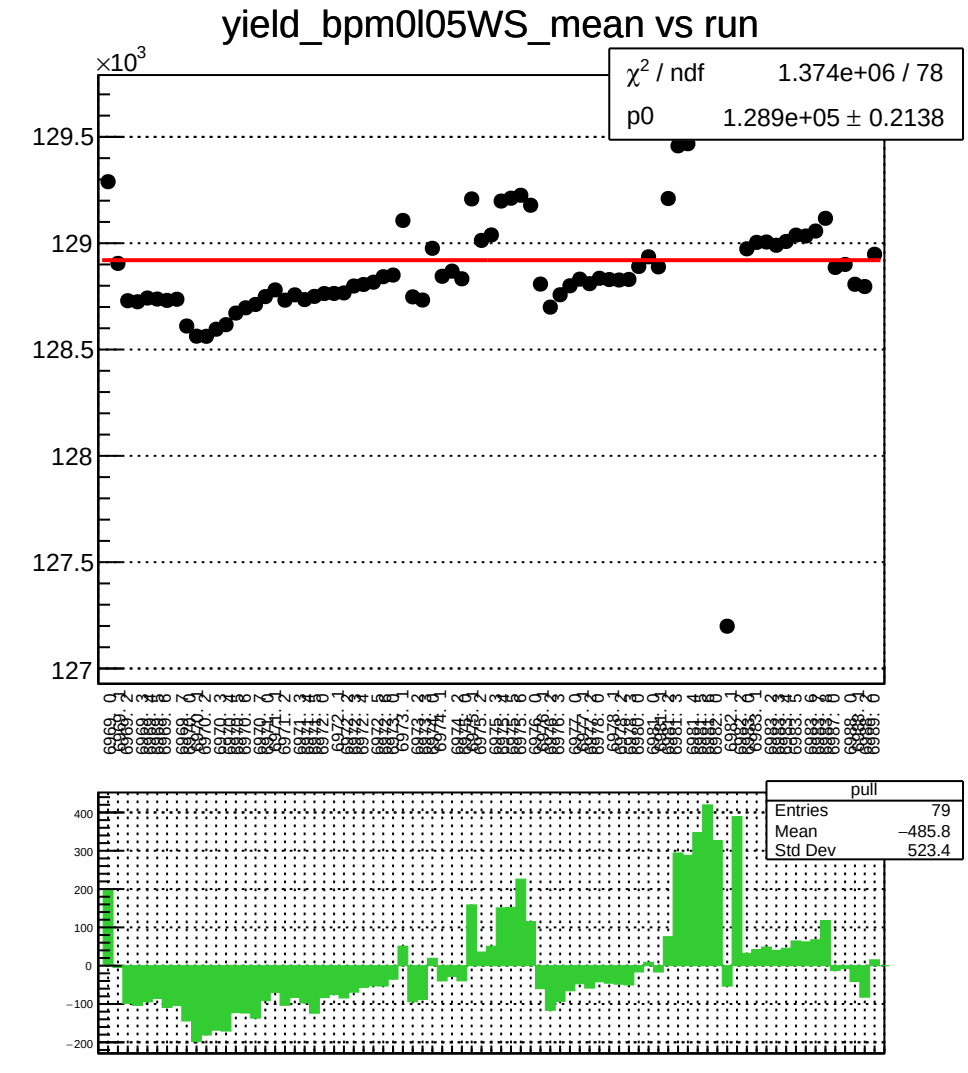

pull1D
Entries 79
Mean −2.546
Std Dev 3.626
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

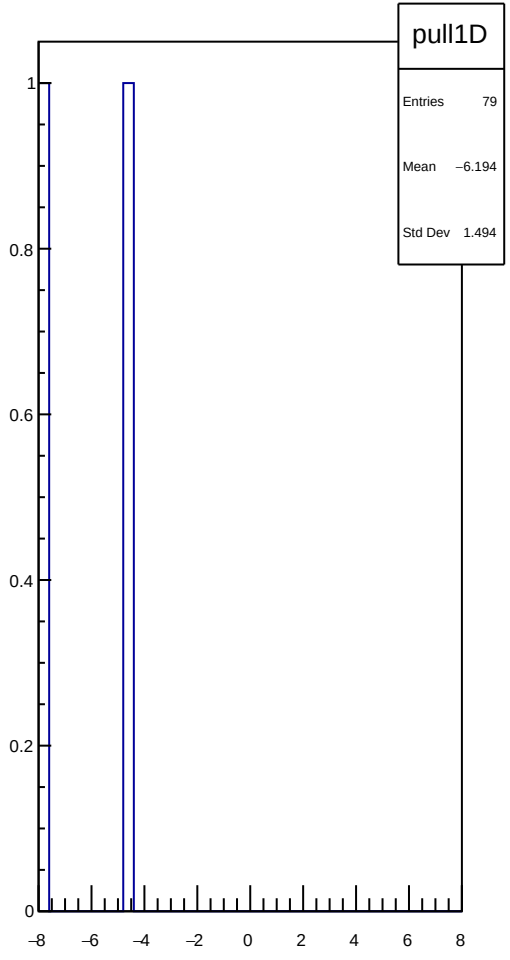

yield_bpm0l03WS_rms vs run
χ² / ndf 2.502e+05 / 78
p0 723.8 ± 0.6325
3000
2500
2000
1500
1000
500

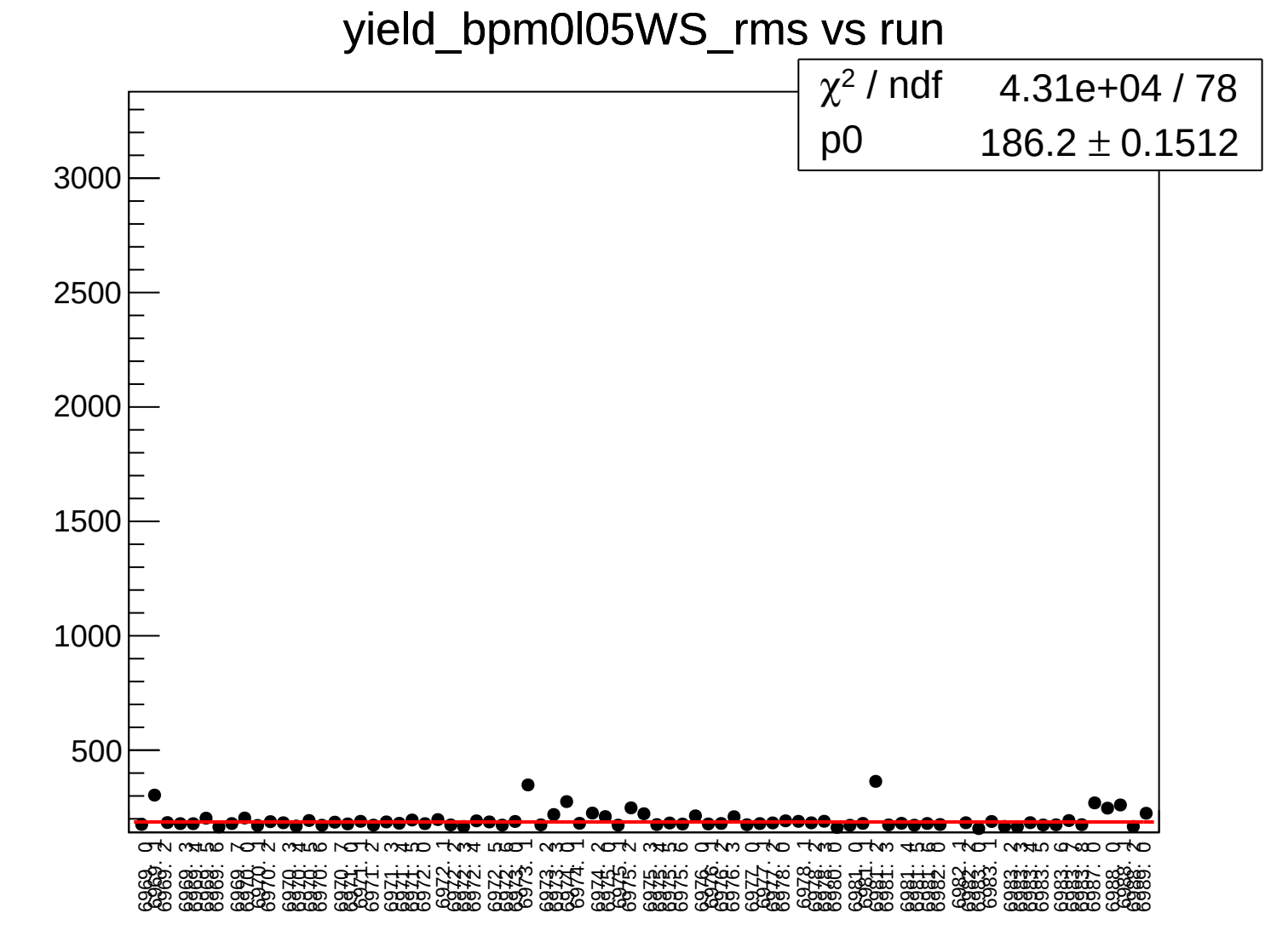

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 7.613e+05 / 78
p0 1.283e+05 ± 0.2154
128.5
128
127.5
127
126.5
126
pull
Entries 79
Mean −362.5
Std Dev 398.5
300
250
200
150
100
50
0
−50
−100

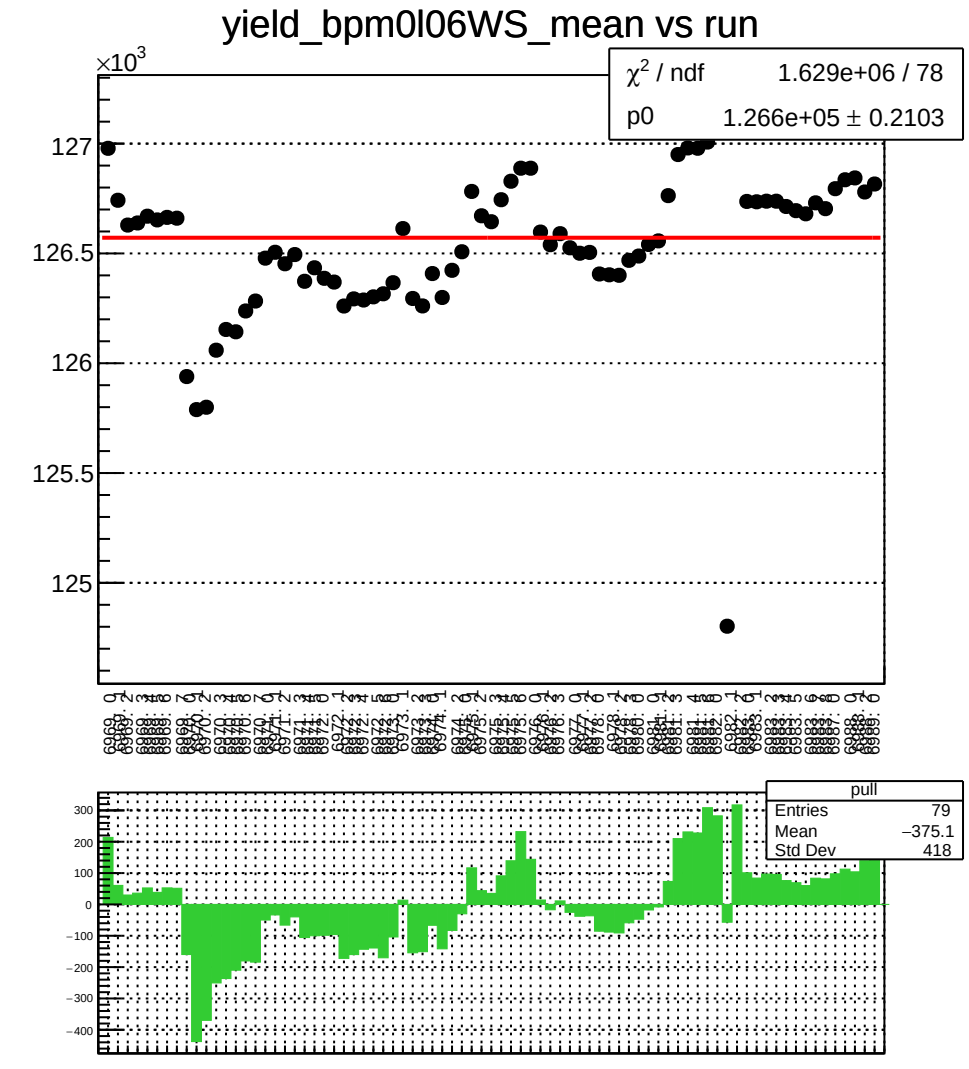

pull1D
Entries 79
Mean −0.219
Std Dev 7.267
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

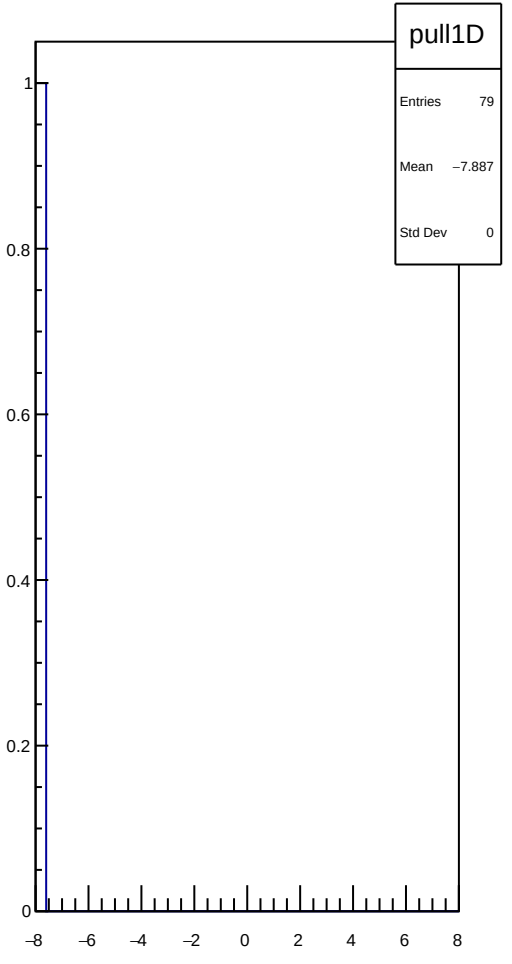

yield_bpm0l04WS_rms vs run
χ² / ndf 3.627e+04 / 78
p0 188.1 ± 0.1523
3000
2500
2000
1500
1000
500

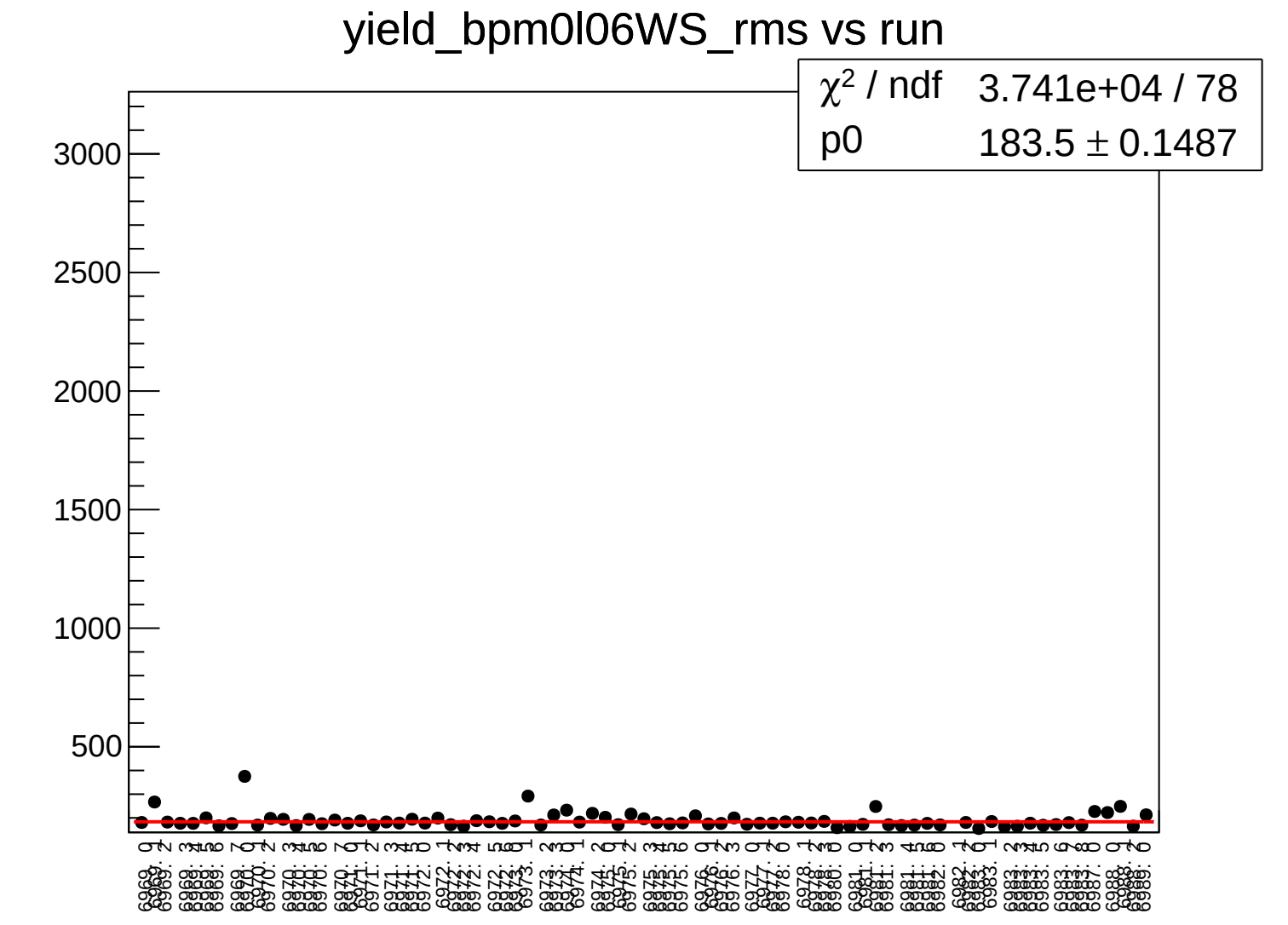

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.374e+06 / 78
p0 1.289e+05 ± 0.2138
129.5
129
128.5
128
127.5
127
pull
Entries 79
Mean −485.8
Std Dev 523.4
400
300
200
100
0
−100
−200

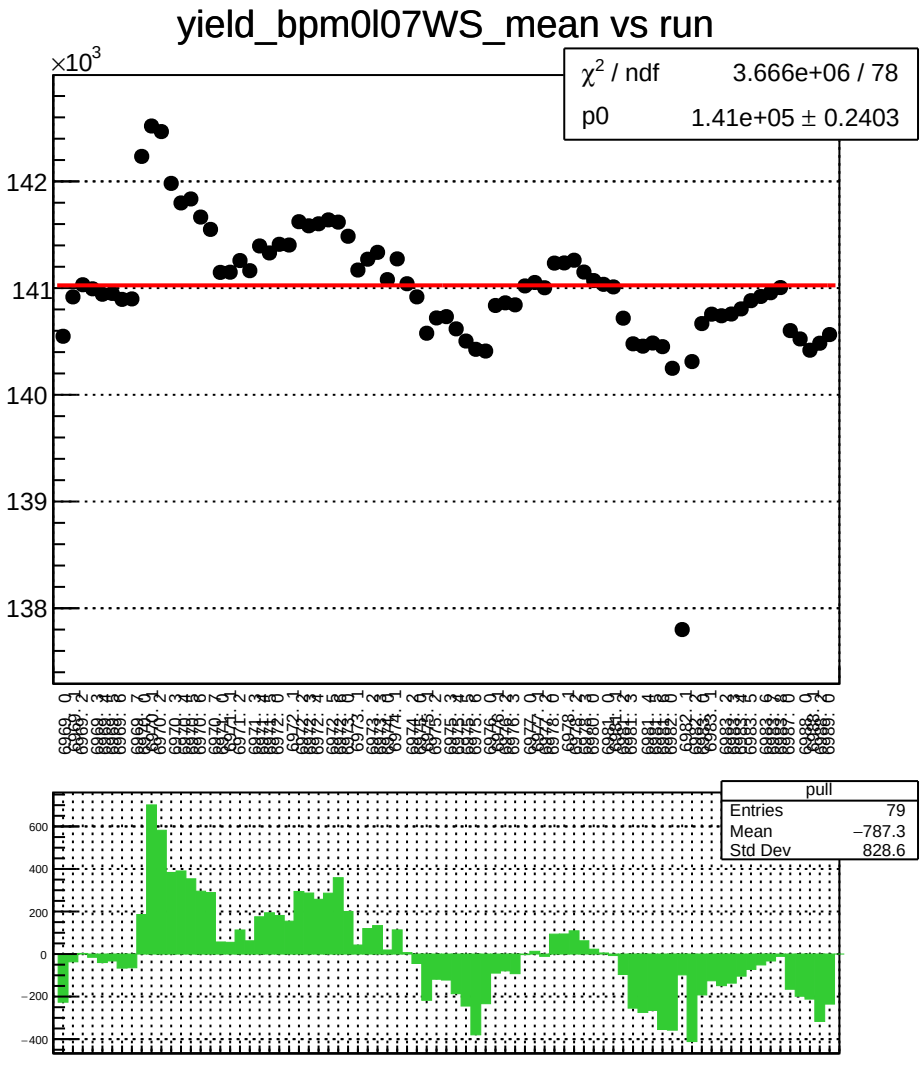

pull1D
Entries 79
Mean −6.194
Std Dev 1.494
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

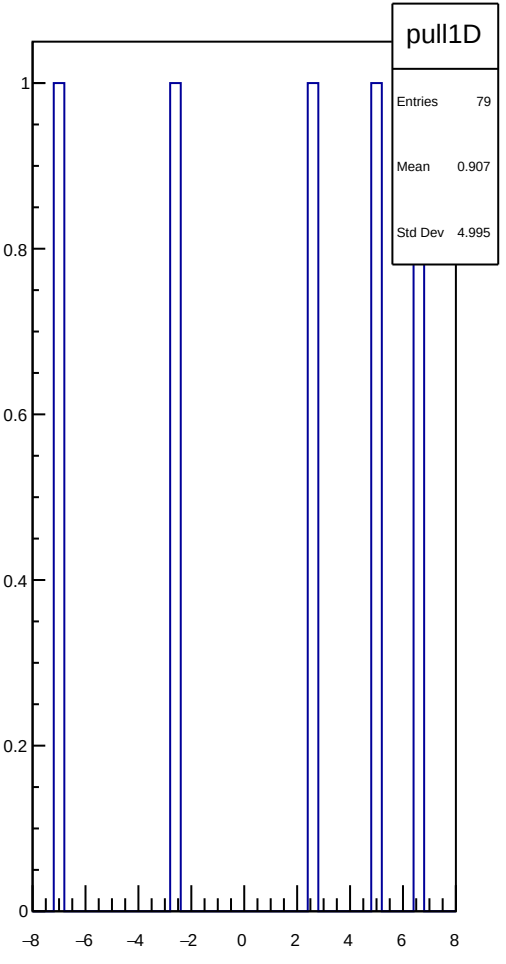

yield_bpm0l05WS_rms vs run
χ² / ndf 4.31e+04 / 78
p0 186.2 ± 0.1512
3000
2500
2000
1500
1000
500

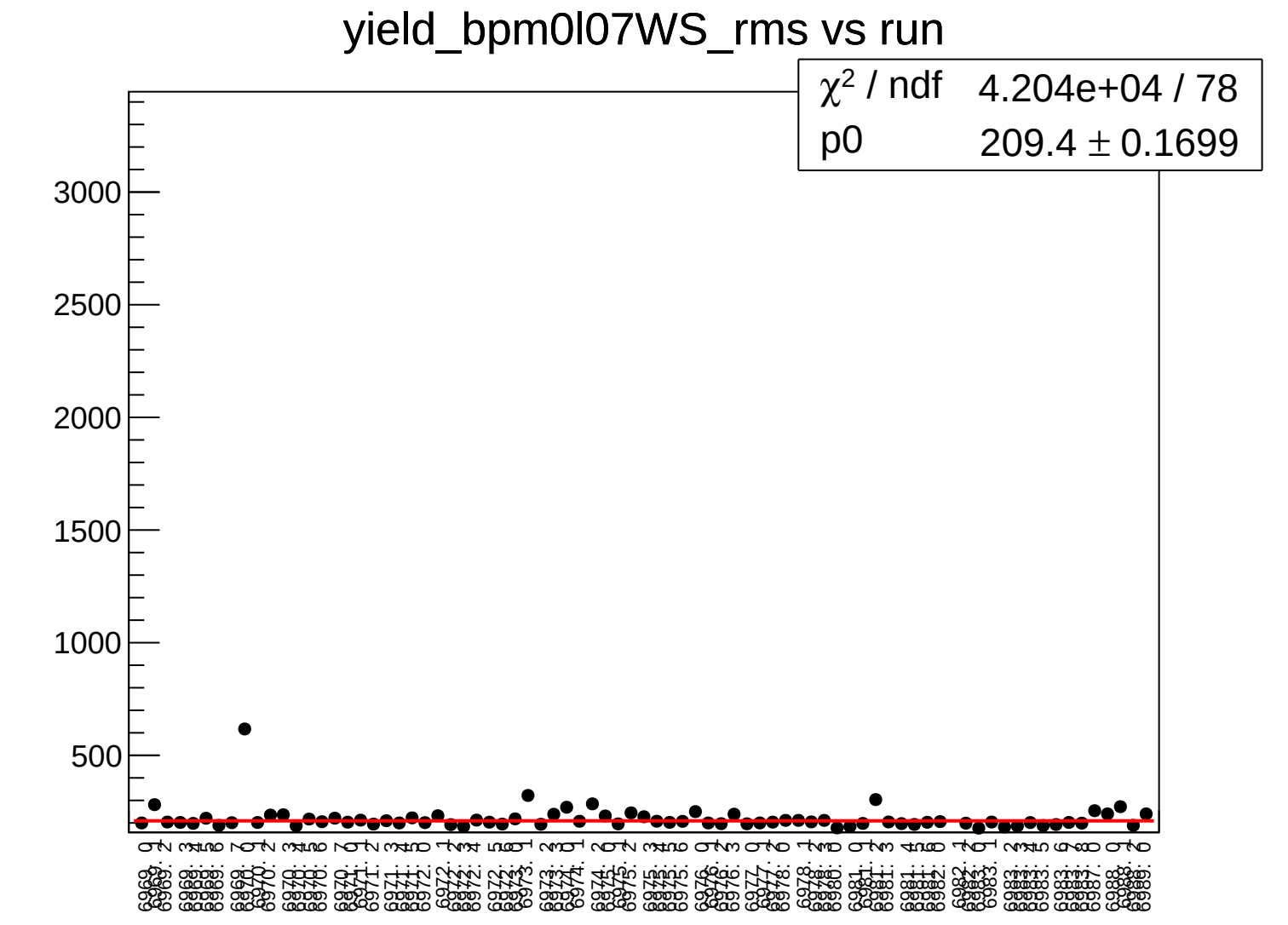

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 1.629e+06 / 78
p0 1.266e+05 ± 0.2103
127
126.5
126
125.5
125
pull
Entries 79
Mean −375.1
Std Dev 418
300
200
100
0
−100
−200
−300
−400

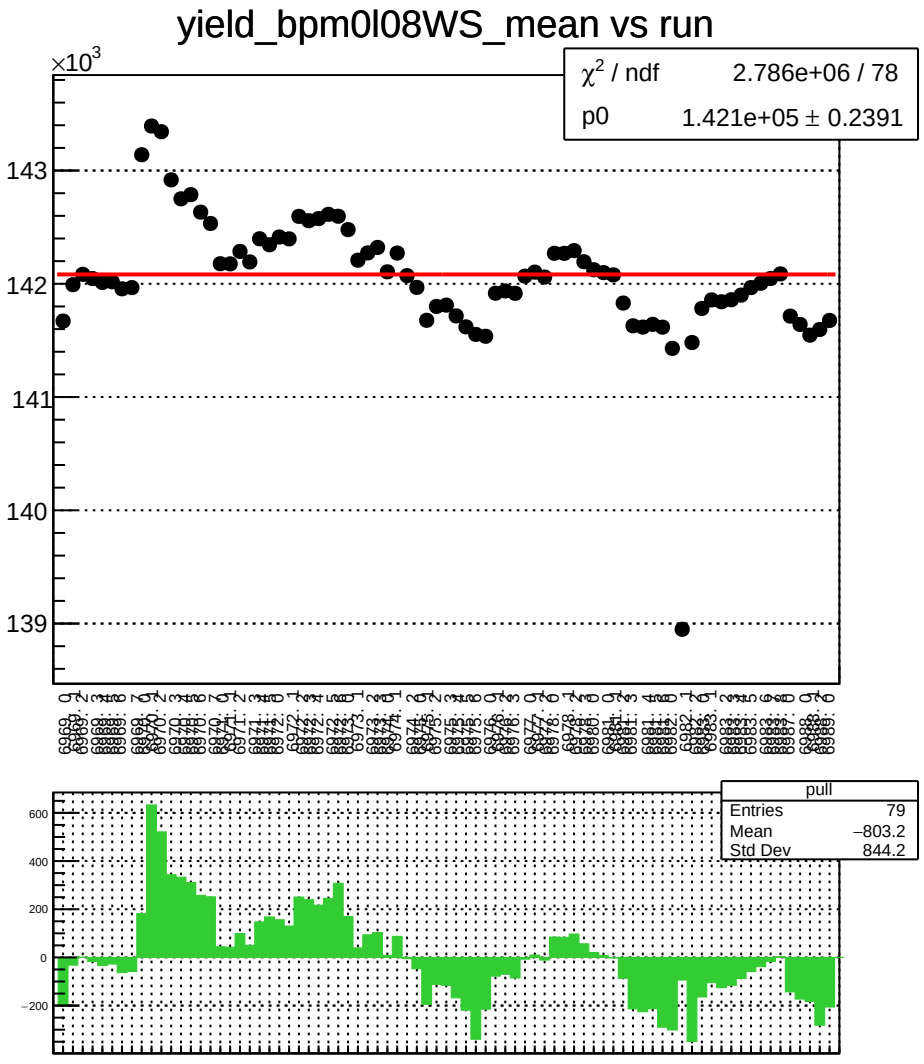

pull1D
Entries 79
Mean −7.887
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

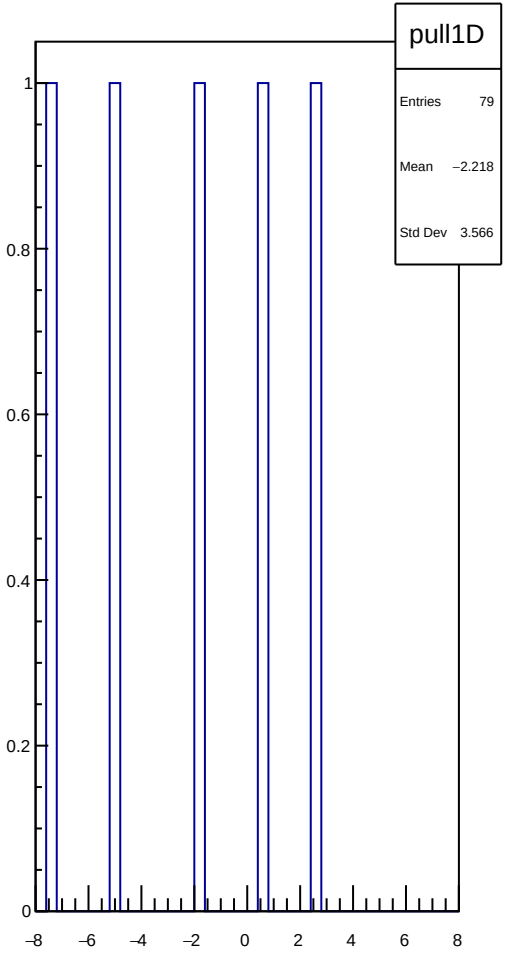

yield_bpm0l06WS_rms vs run
χ² / ndf 3.741e+04 / 78
p0 183.5 ± 0.1487
3000
2500
2000
1500
1000
500

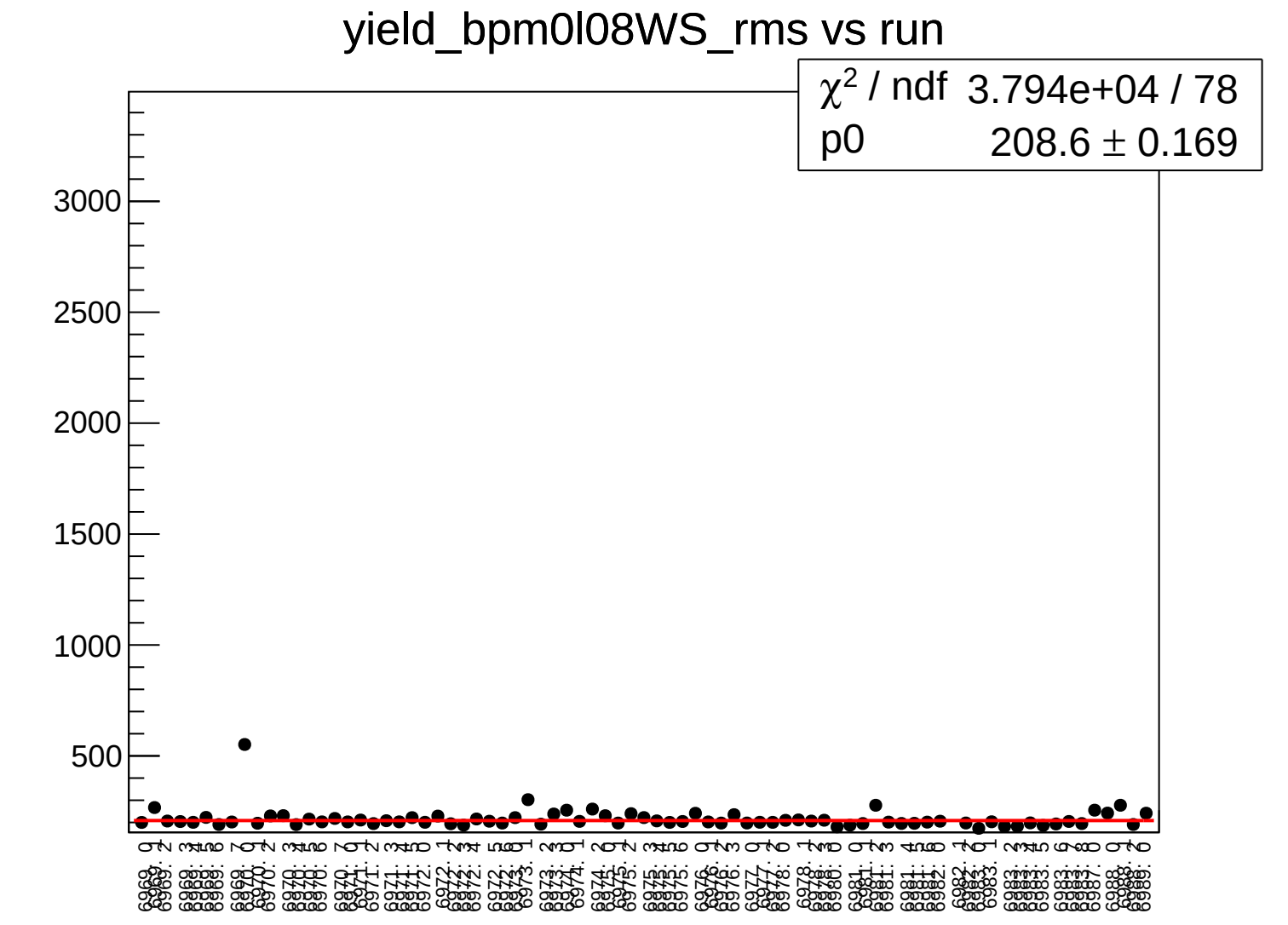

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 3.666e+06 / 78
p0 1.41e+05 ± 0.2403
142
141
140
139
138
pull
Entries 79
Mean −787.3
Std Dev 828.6
600
400
200
0
−200
−400

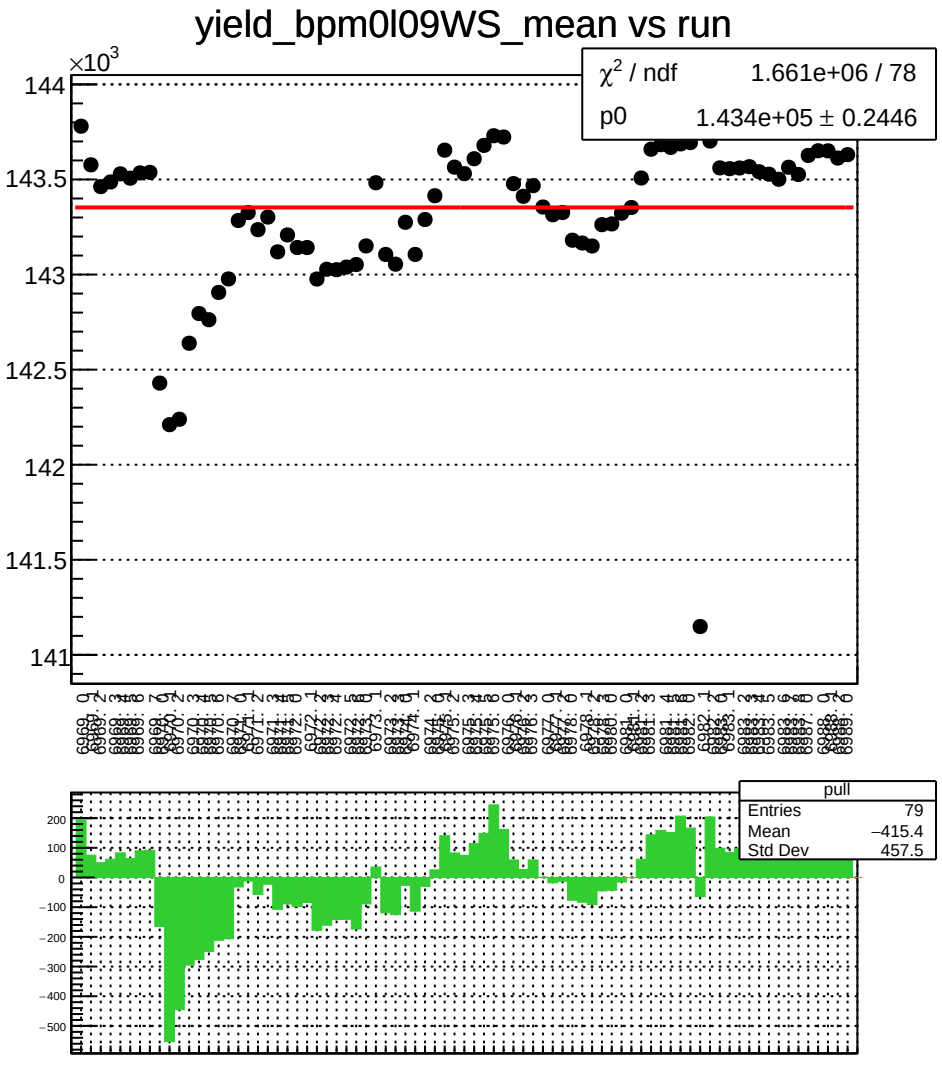

pull1D
Entries 79
Mean 0.907
Std Dev 4.995
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

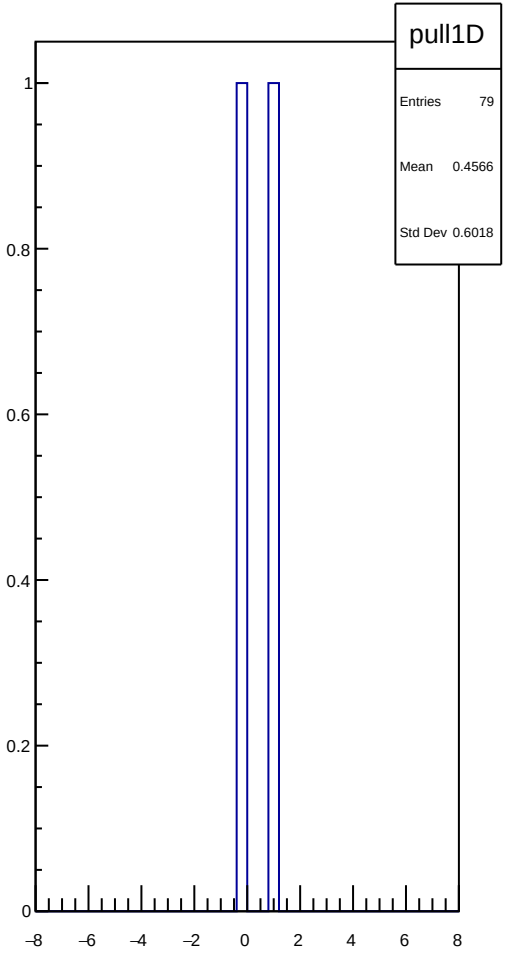

yield_bpm0l07WS_rms vs run
χ² / ndf 4.204e+04 / 78
p0 209.4 ± 0.1699
3000
2500
2000
1500
1000
500

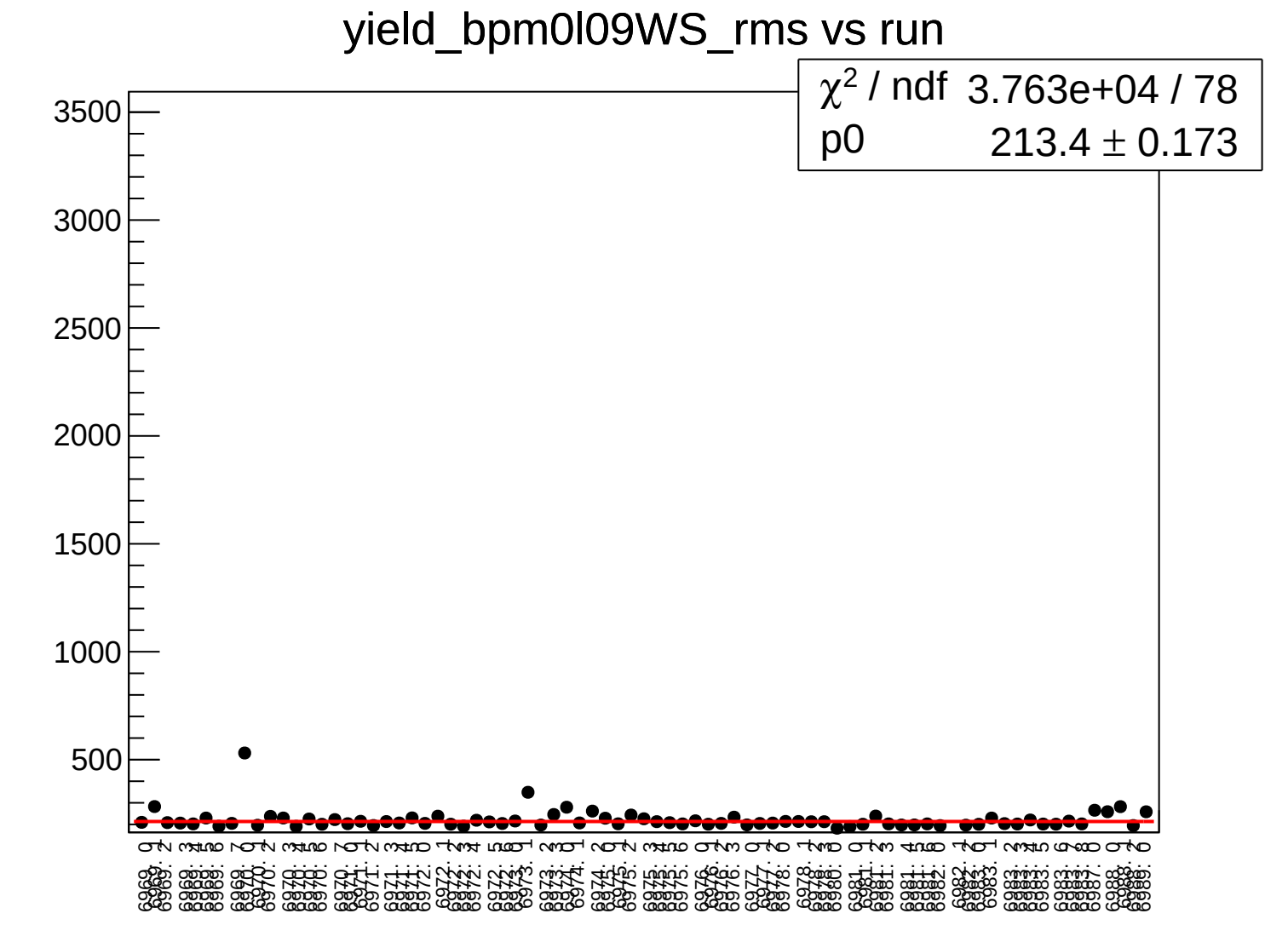

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 2.786e+06 / 78
p0 1.421e+05 ± 0.2391
143
142
141
140
139
pull
Entries 79
Mean −803.2
Std Dev 844.2
600
400
200
0
−200

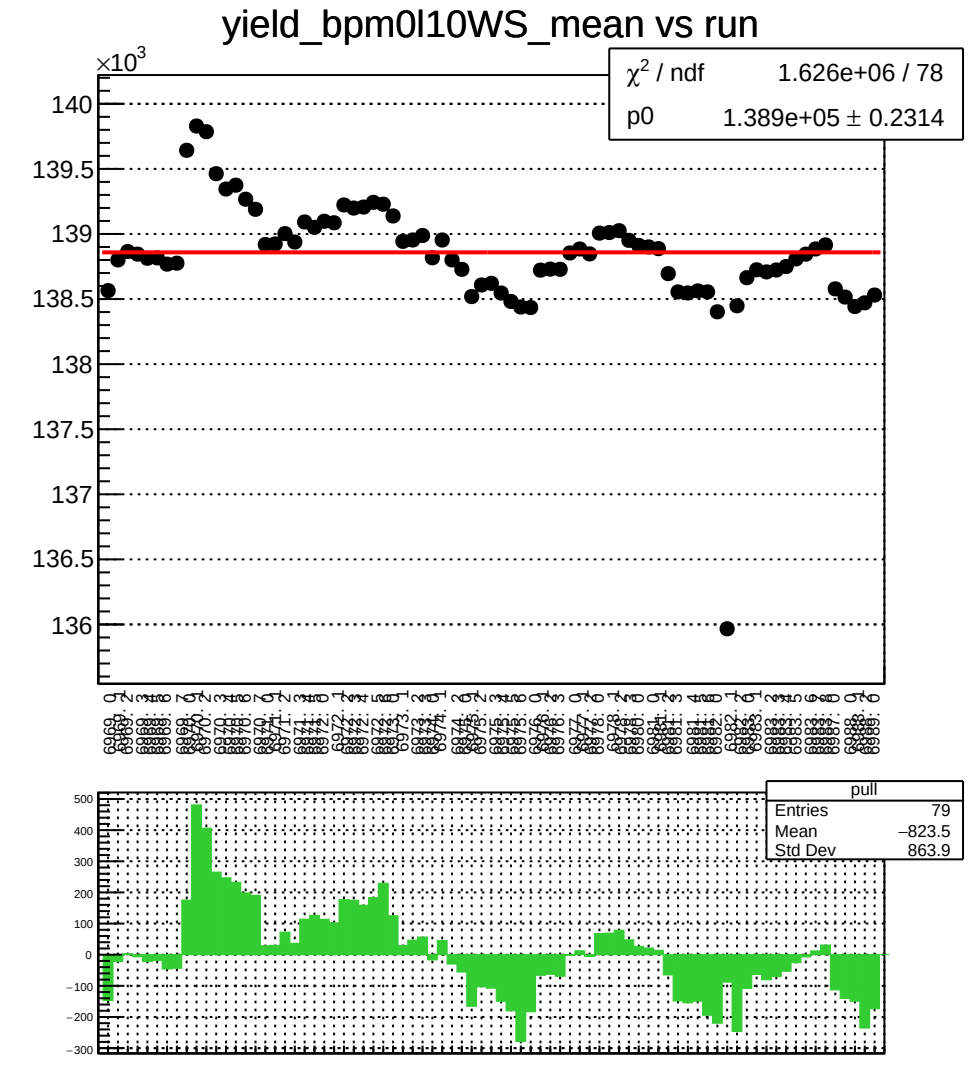

pull1D
Entries 79
Mean −2.218
Std Dev 3.566
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

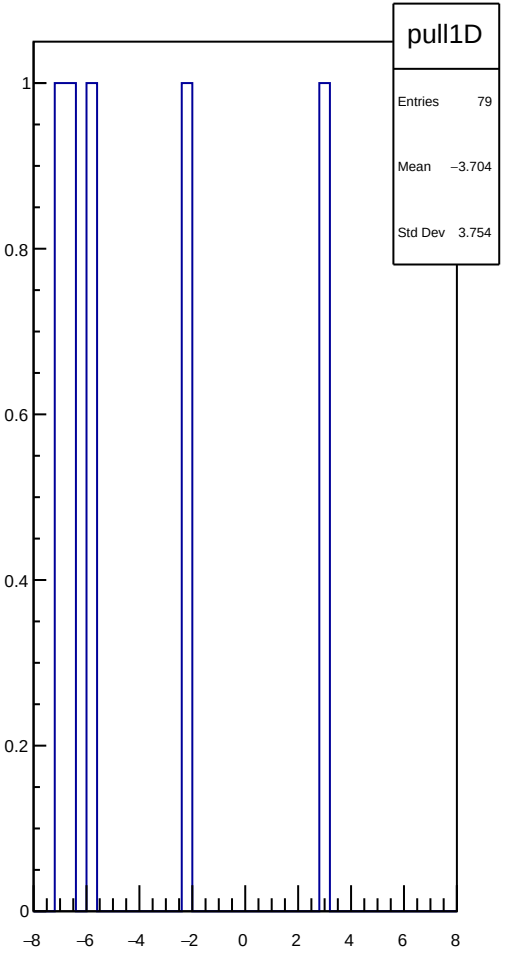

yield_bpm0l08WS_rms vs run
χ² / ndf 3.794e+04 / 78
p0 208.6 ± 0.169
3000
2500
2000
1500
1000
500

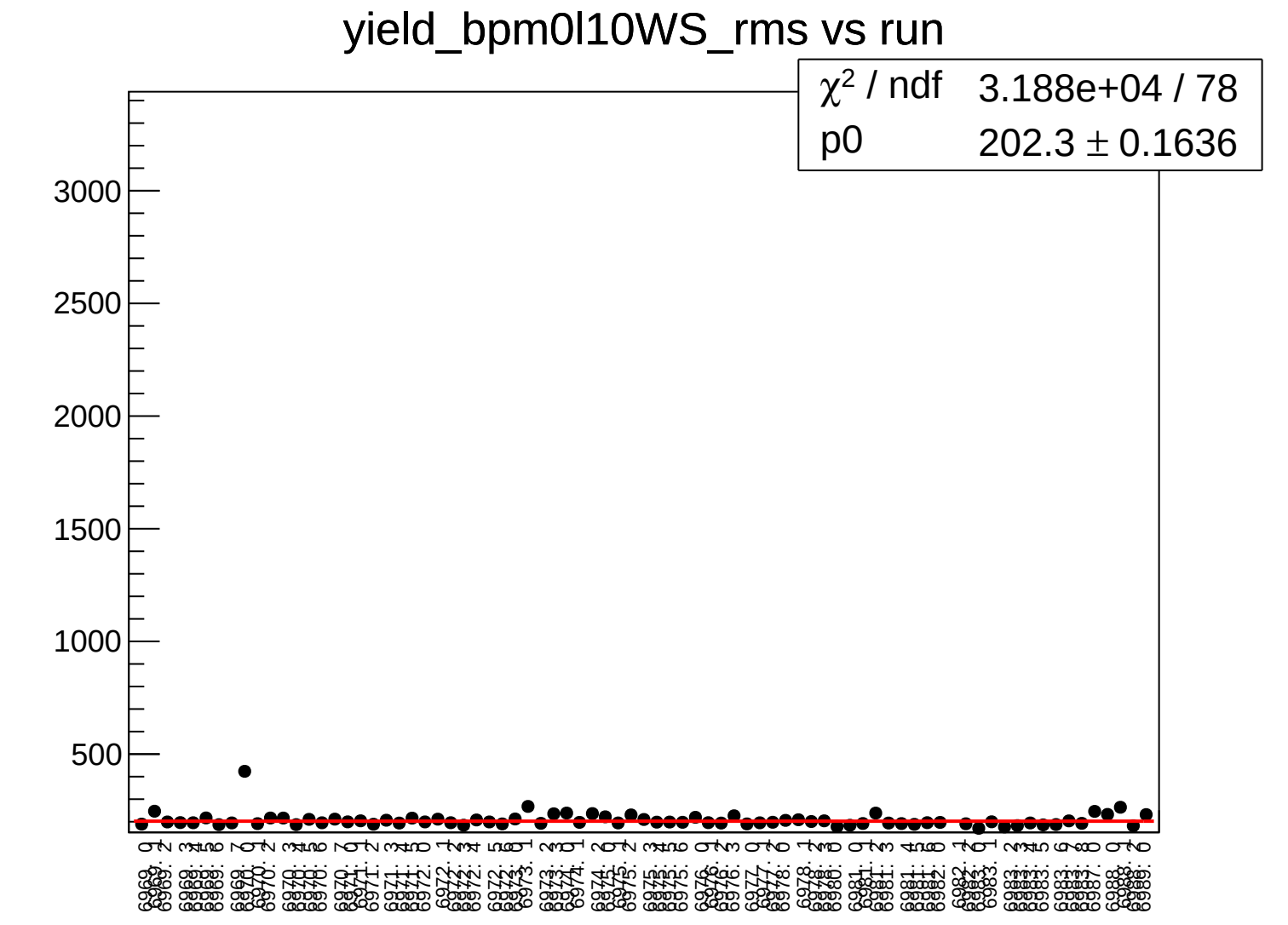

yield_bpm0l09WS_mean vs run
×10^3
144
143.5
143
142.5
142
141.5
141
χ² / ndf 1.661e+06 / 78
p0 1.434e+05 ± 0.2446
pull
Entries 79
Mean −415.4
Std Dev 457.5
200
100
0
−100
−200
−300
−400
−500

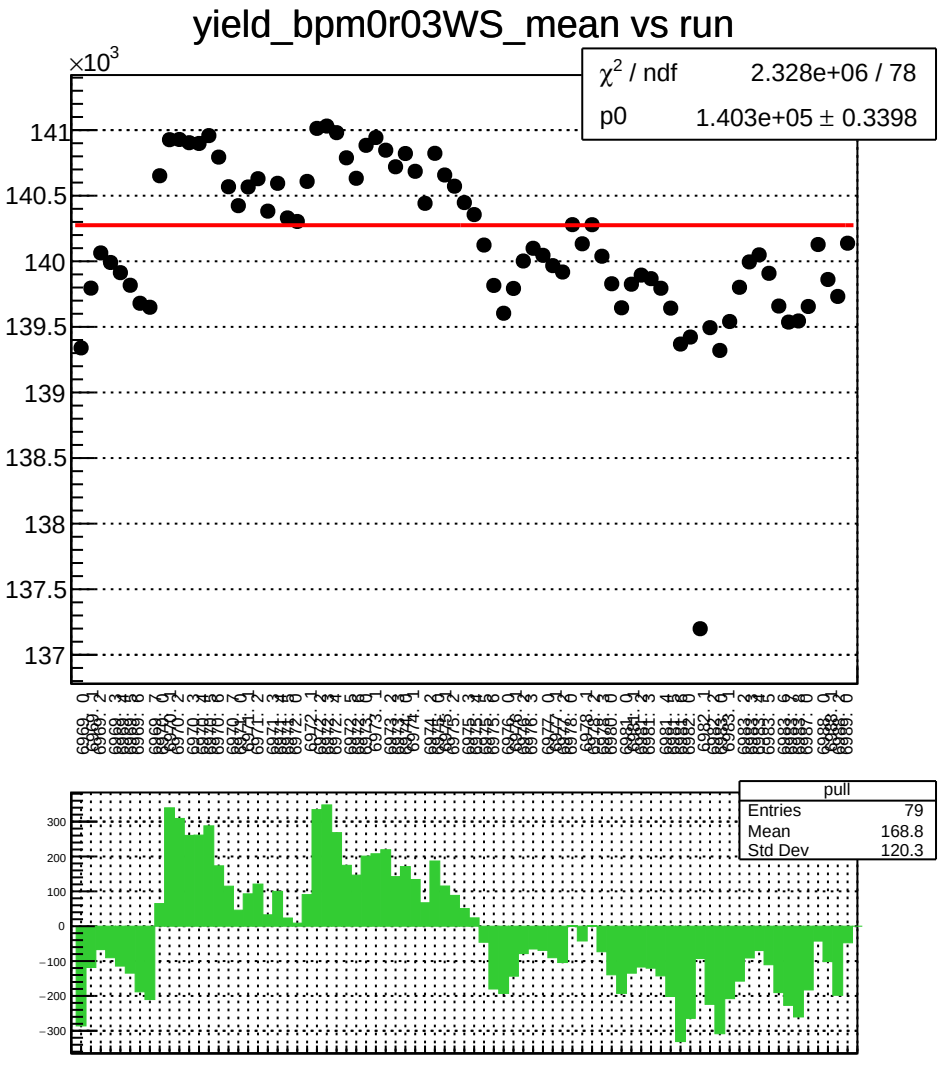

pull1D
Entries 79
Mean 0.4566
Std Dev 0.6018
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

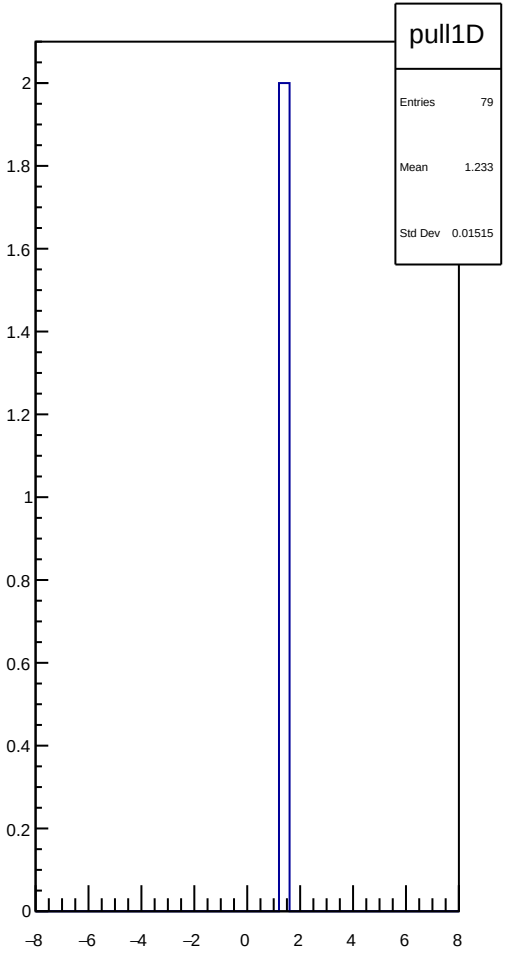

yield_bpm0l09WS_rms vs run
χ² / ndf 3.763e+04 / 78
p0 213.4 ± 0.173
3500
3000
2500
2000
1500
1000
500

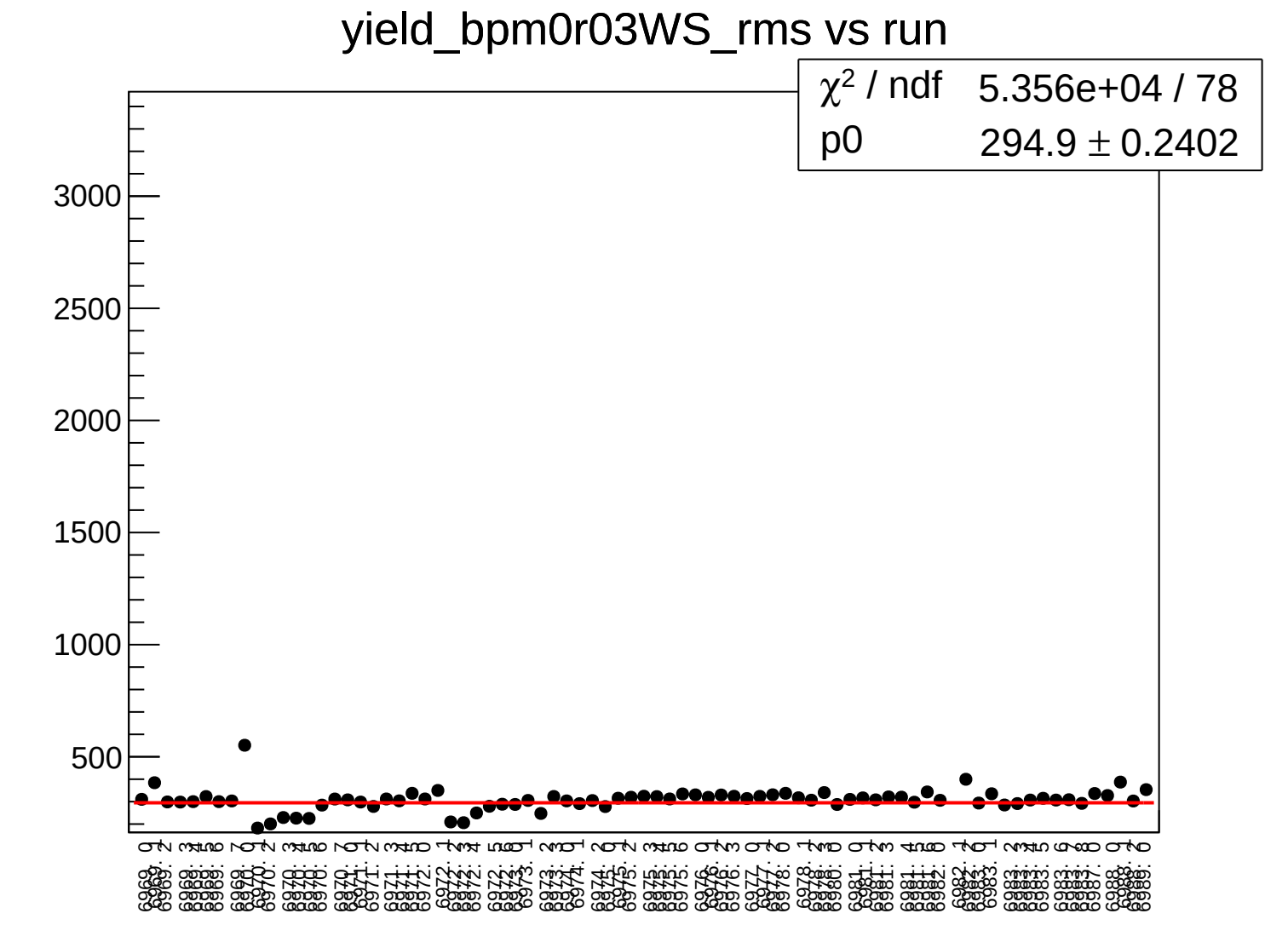

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 1.626e+06 / 78
p0 1.389e+05 ± 0.2314
140
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 79
Mean −823.5
Std Dev 863.9
500
400
300
200
100
0
−100
−200
−300

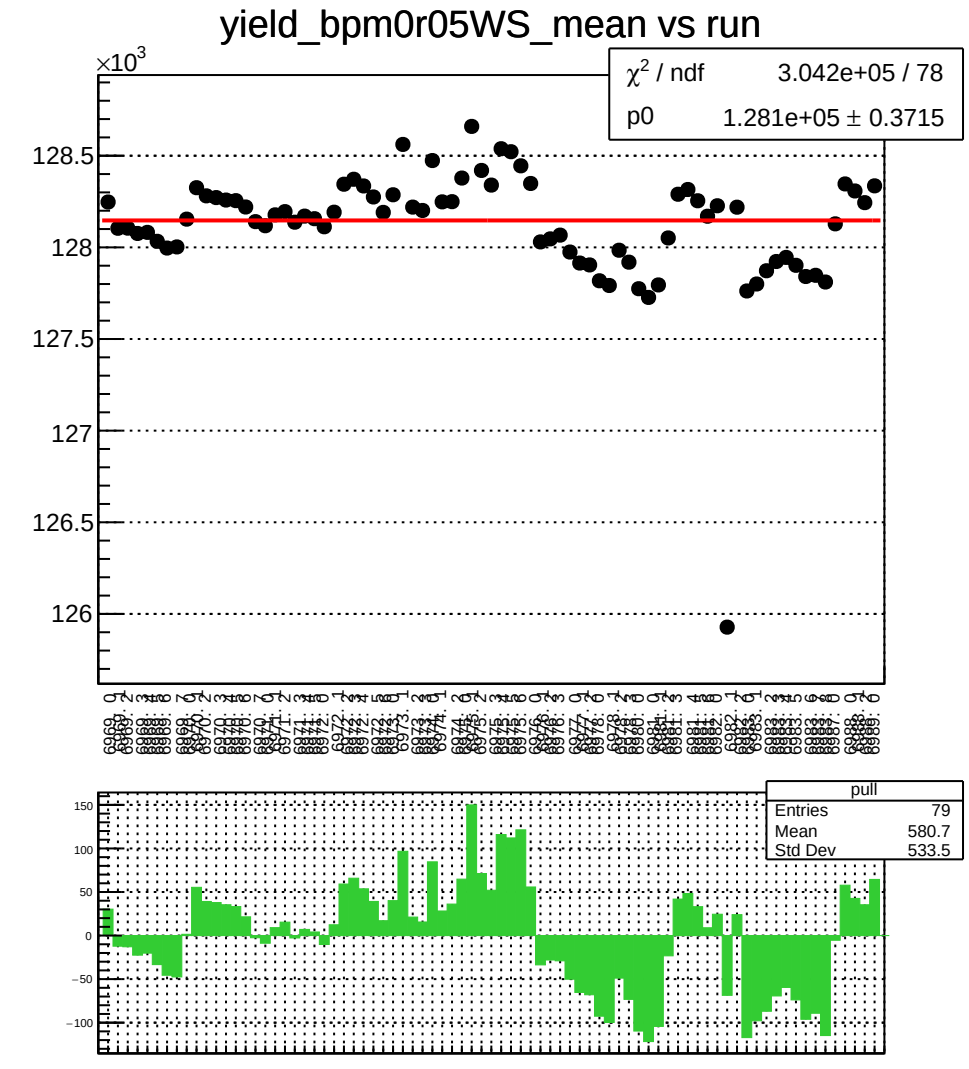

pull1D
Entries 79
Mean −3.704
Std Dev 3.754
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

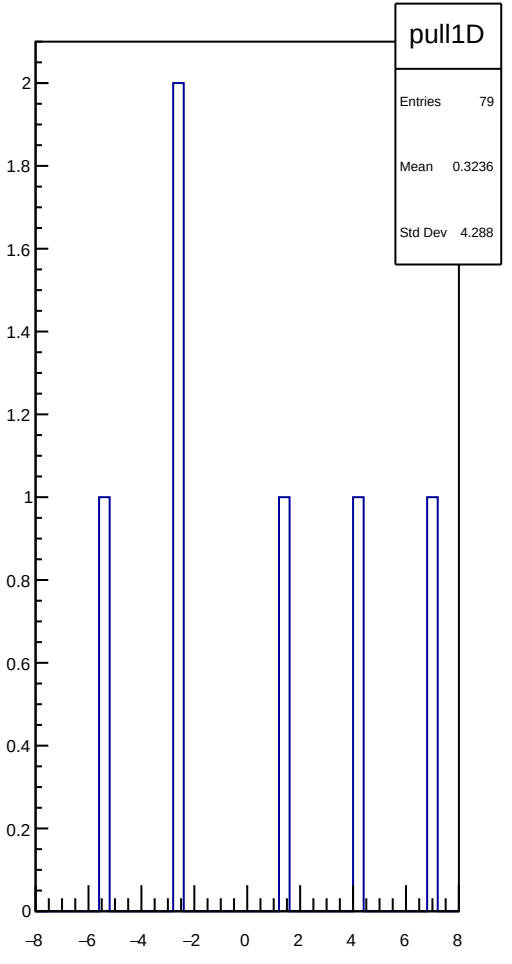

yield_bpm0l10WS_rms vs run
χ² / ndf 3.188e+04 / 78
p0 202.3 ± 0.1636
3000
2500
2000
1500
1000
500

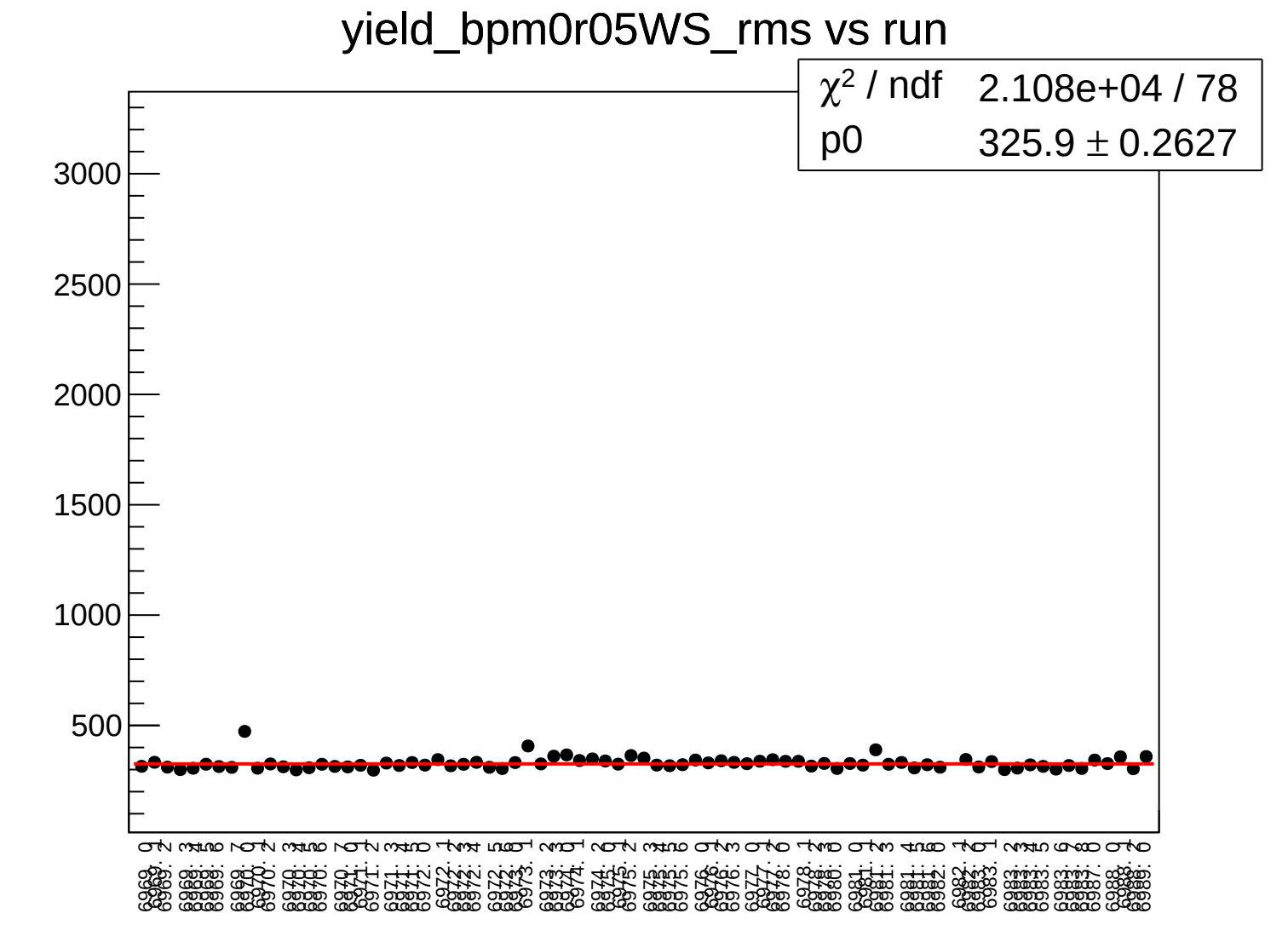

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 2.328e+06 / 78
p0 1.403e+05 ± 0.3398
141
140.5
140
139.5
139
138.5
138
137.5
137
pull
Entries 79
Mean 168.8
Std Dev 120.3
300
200
100
0
−100
−200
−300

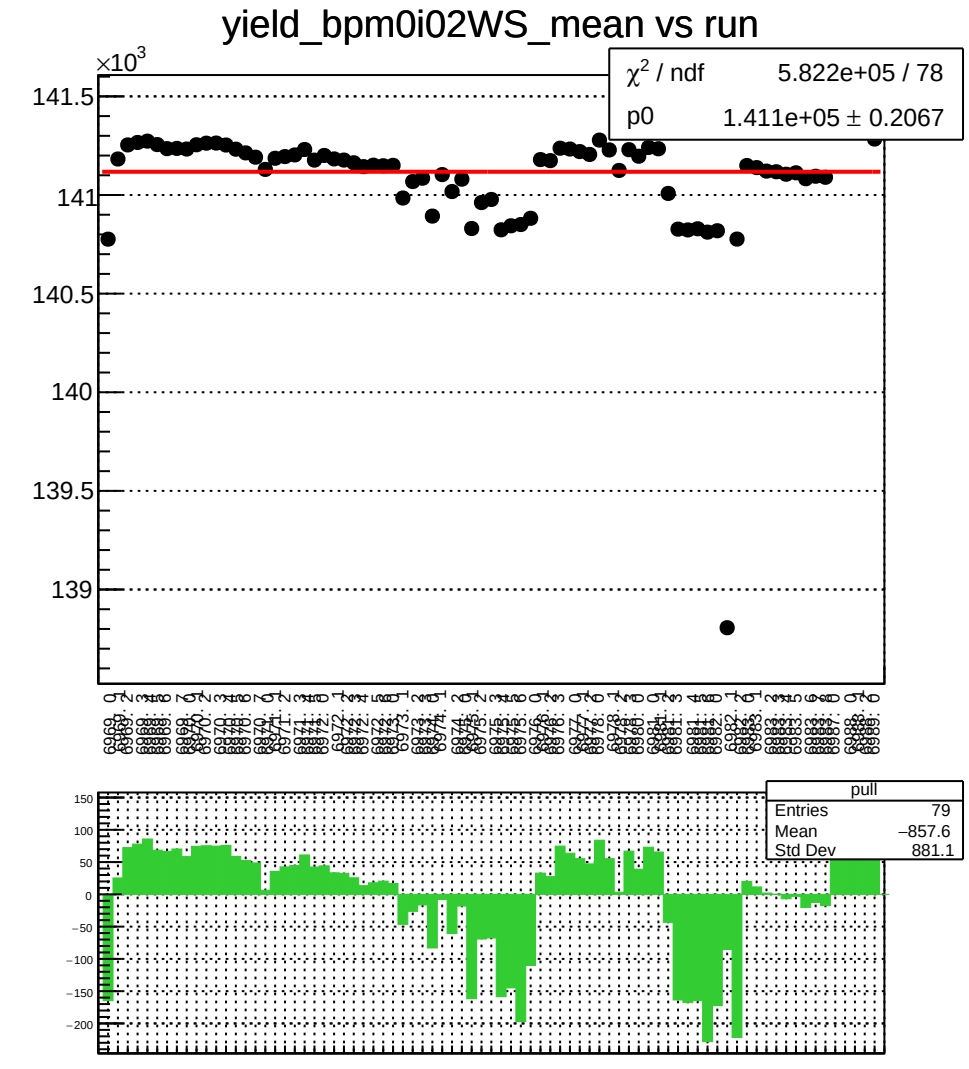

pull1D
Entries 79
Mean 1.233
Std Dev 0.01515
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

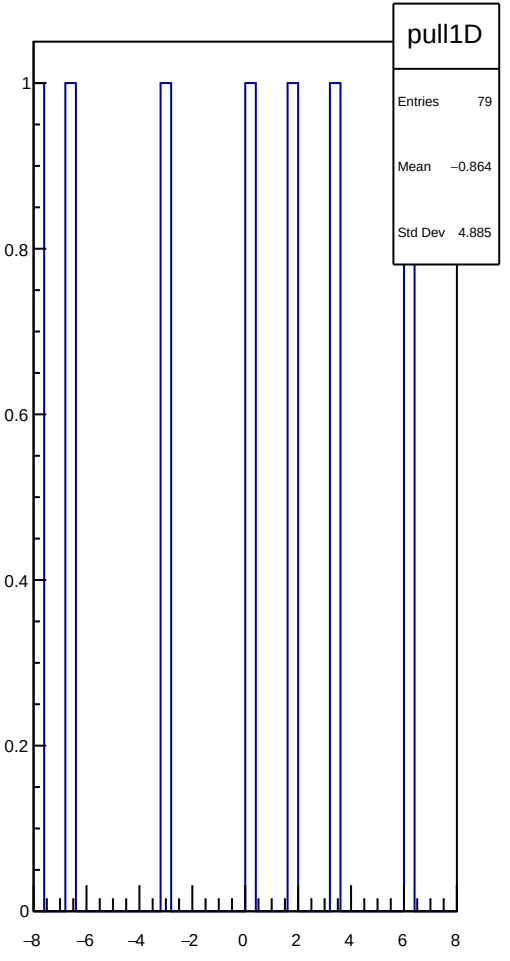

yield_bpm0r03WS_rms vs run
χ² / ndf 5.356e+04 / 78
p0 294.9 ± 0.2402
3000
2500
2000
1500
1000
500

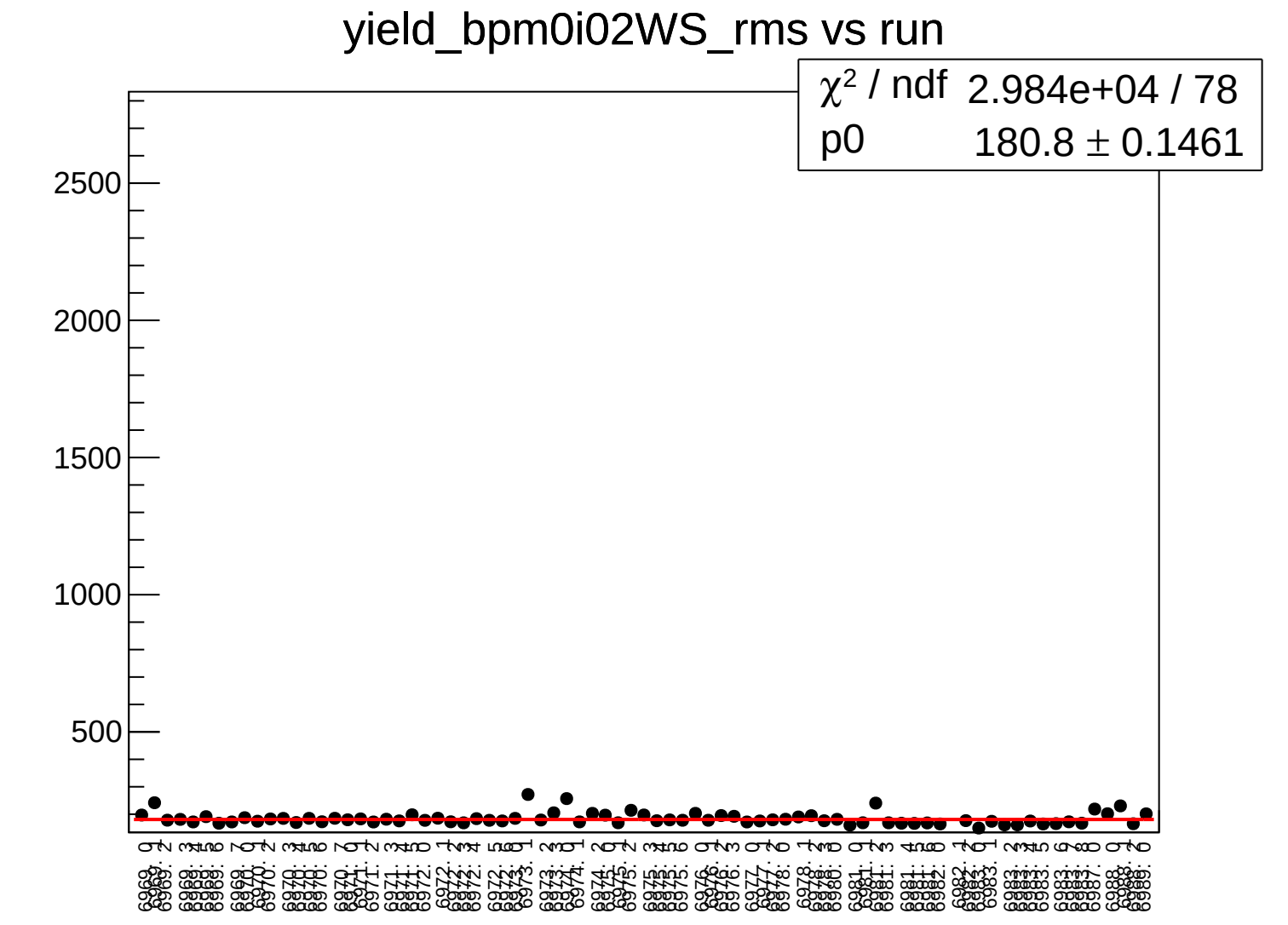

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 3.042e+05 / 78
p0 1.281e+05 ± 0.3715
128.5
128
127.5
127
126.5
126
pull
Entries 79
Mean 580.7
Std Dev 533.5
150
100
50
0
−50
−100

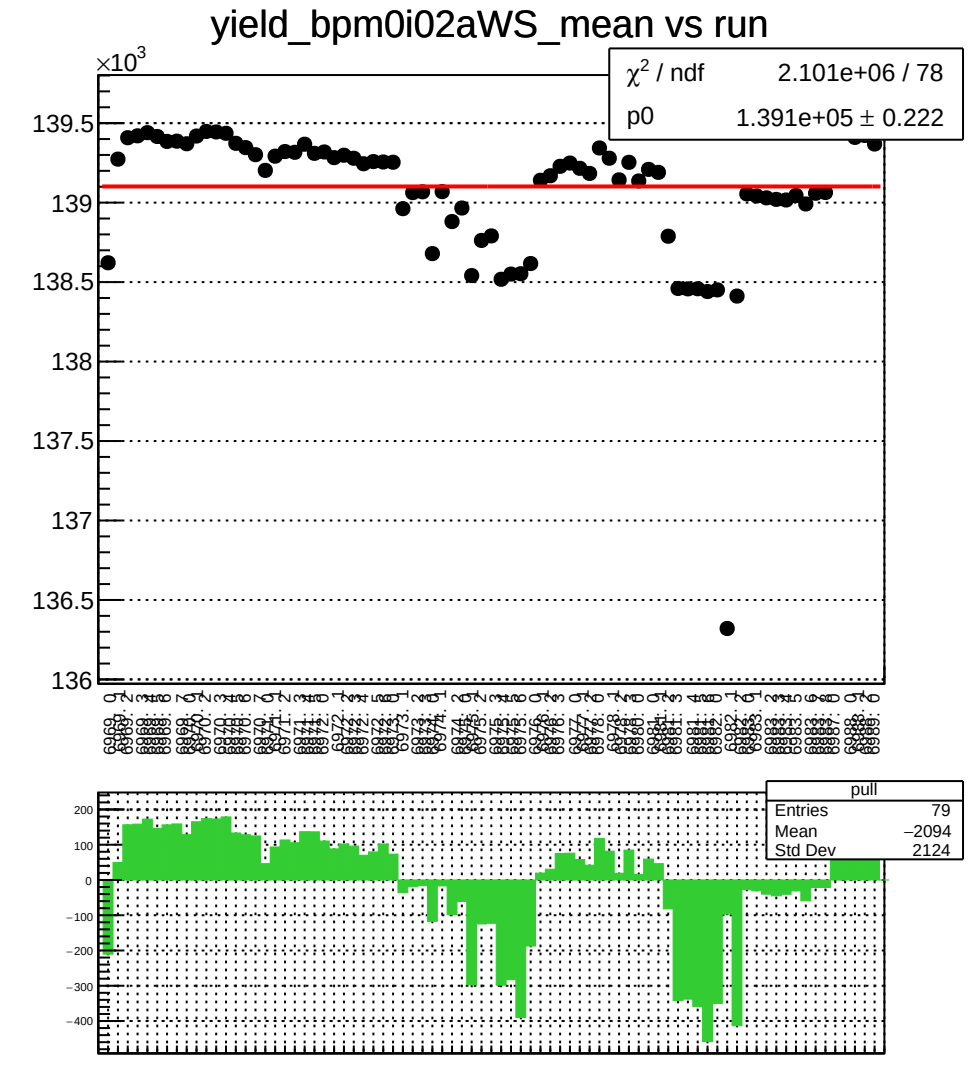

pull1D
Entries 79
Mean 0.3236
Std Dev 4.288
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

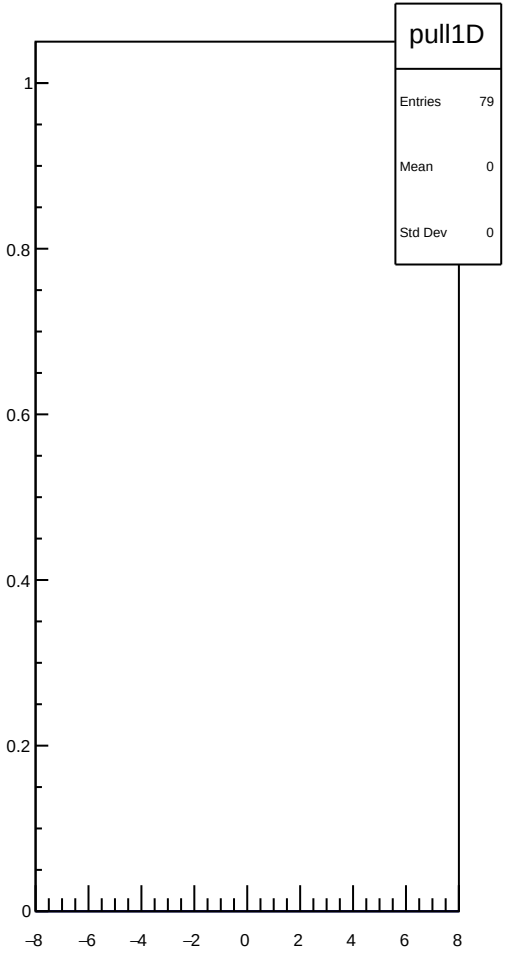

yield_bpm0r05WS_rms vs run
χ² / ndf 2.108e+04 / 78
p0 325.9 ± 0.2627
3000
2500
2000
1500
1000
500

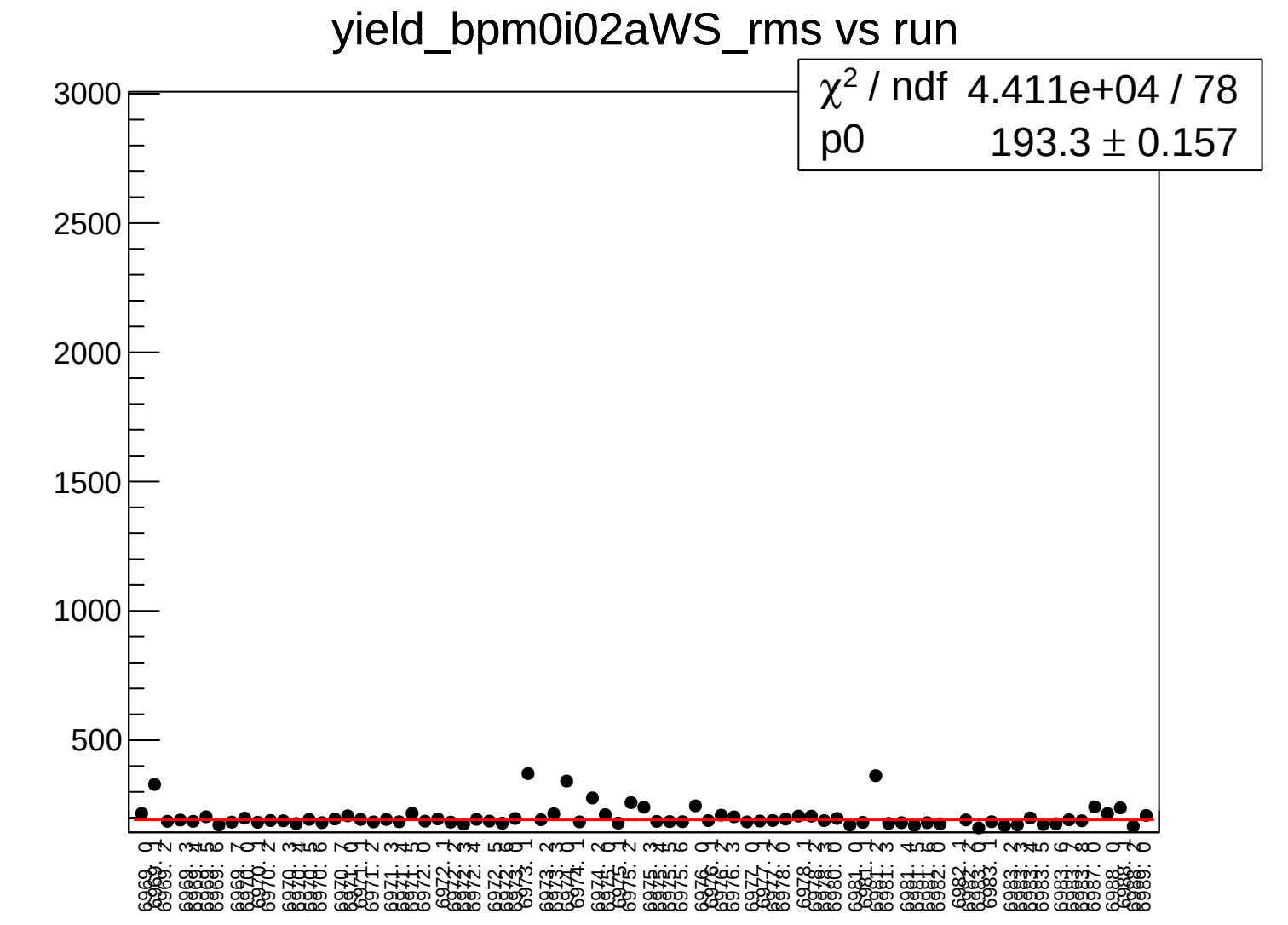

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.822e+05 / 78
p0 1.411e+05 ± 0.2067
141.5
141
140.5
140
139.5
139
pull
Entries 79
Mean −857.6
Std Dev 881.1
150
100
50
0
−50
−100
−150
−200

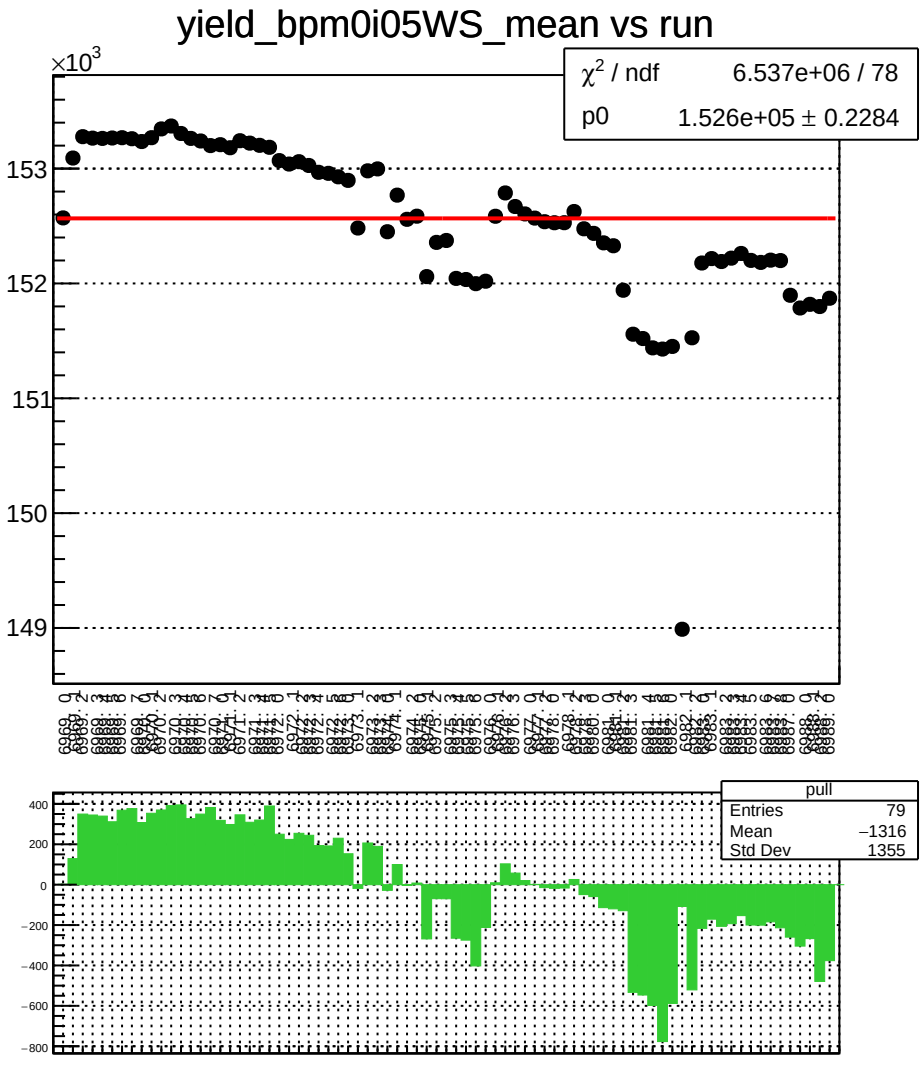

pull1D
Entries 79
Mean −0.864
Std Dev 4.885
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

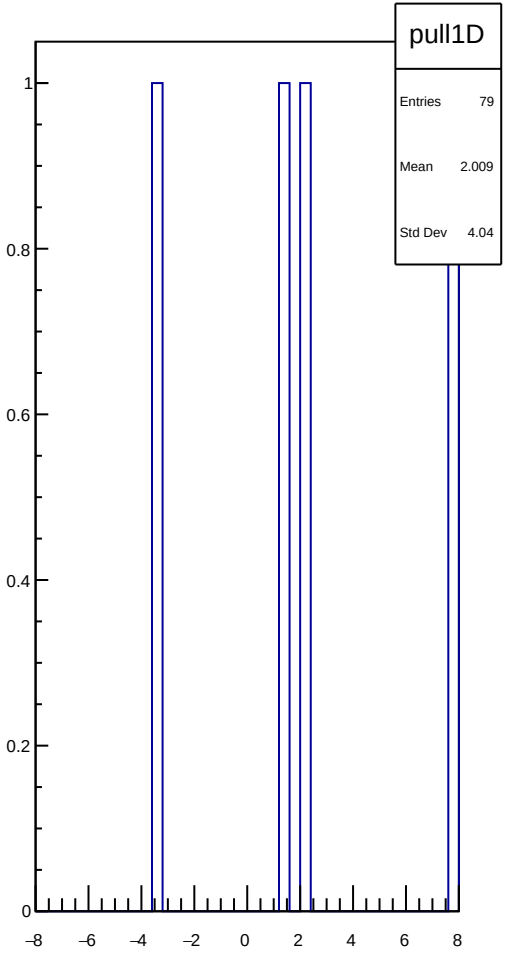

yield_bpm0i02WS_rms vs run
χ² / ndf 2.984e+04 / 78
p0 180.8 ± 0.1461
2500
2000
1500
1000
500

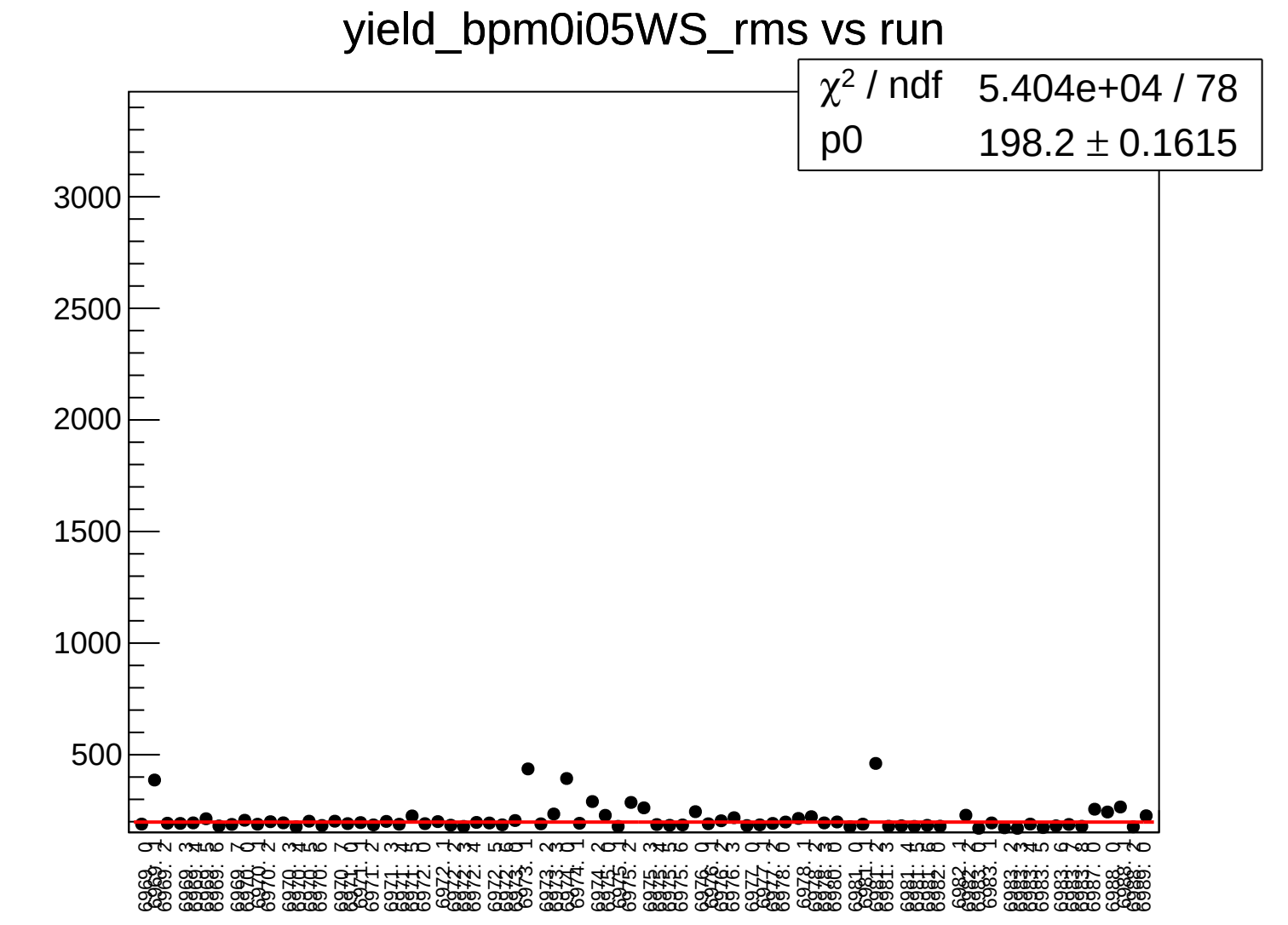

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.101e+06 / 78
p0 1.391e+05 ± 0.222
139.5
139
138.5
138
137.5
137
136.5
136
pull
Entries 79
Mean −2094
Std Dev 2124
200
100
0
−100
−200
−300
−400

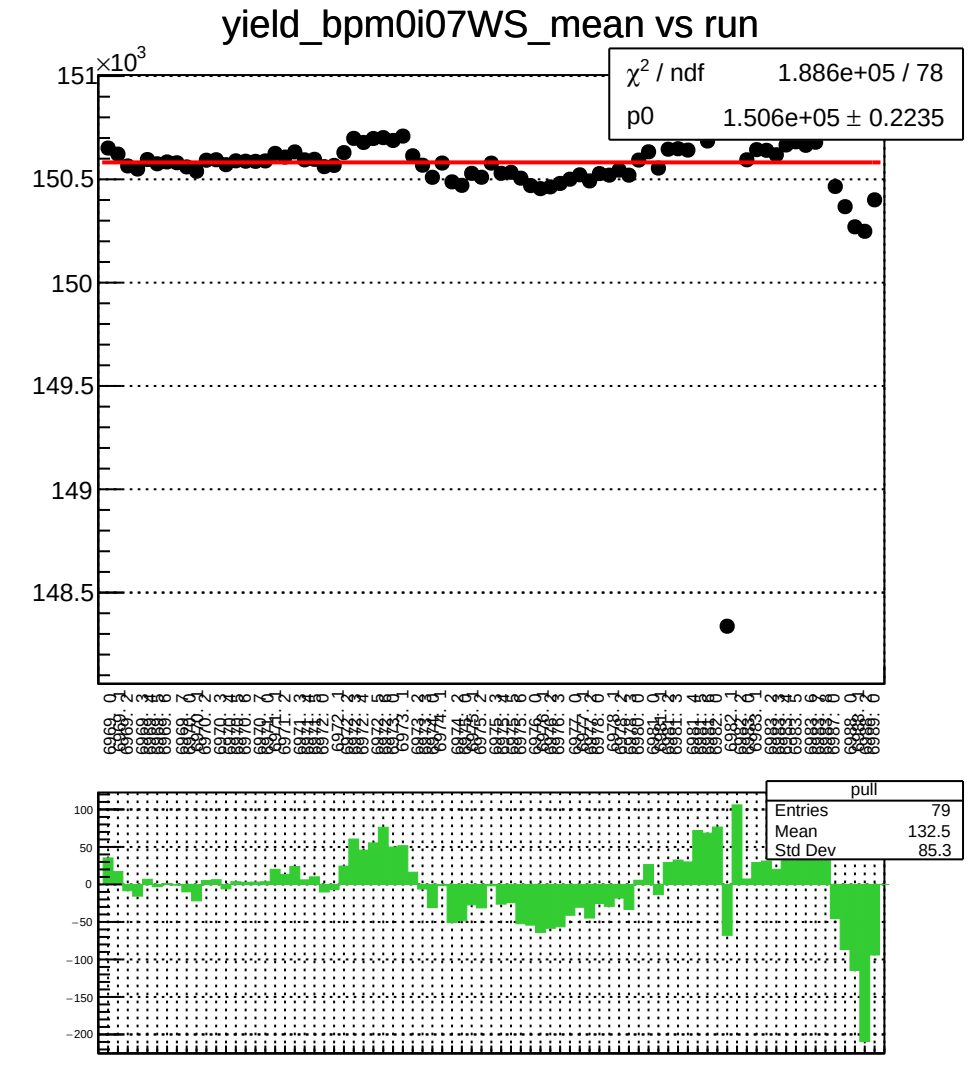

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

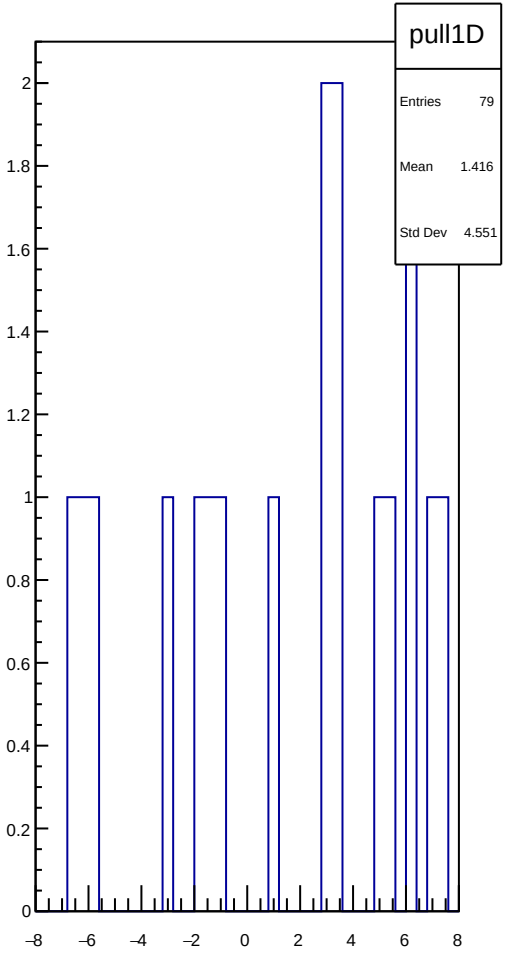

yield_bpm0i02aWS_rms vs run
χ² / ndf 4.411e+04 / 78
p0 193.3 ± 0.157
3000
2500
2000
1500
1000
500

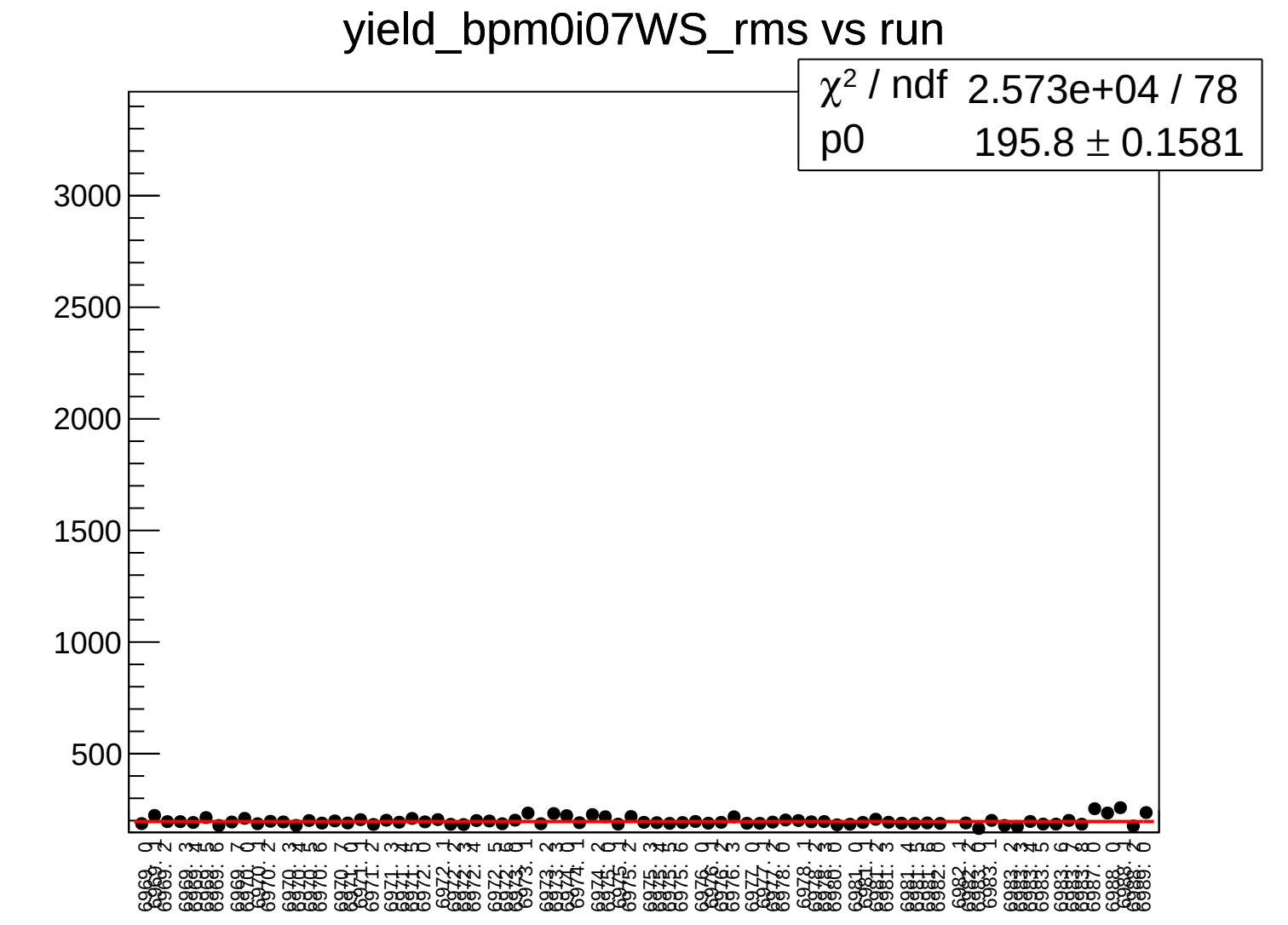

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.537e+06 / 78
p0 1.526e+05 ± 0.2284
153
152
151
150
149
pull
Entries 79
Mean −1316
Std Dev 1355
400
200
0
−200
−400
−600
−800

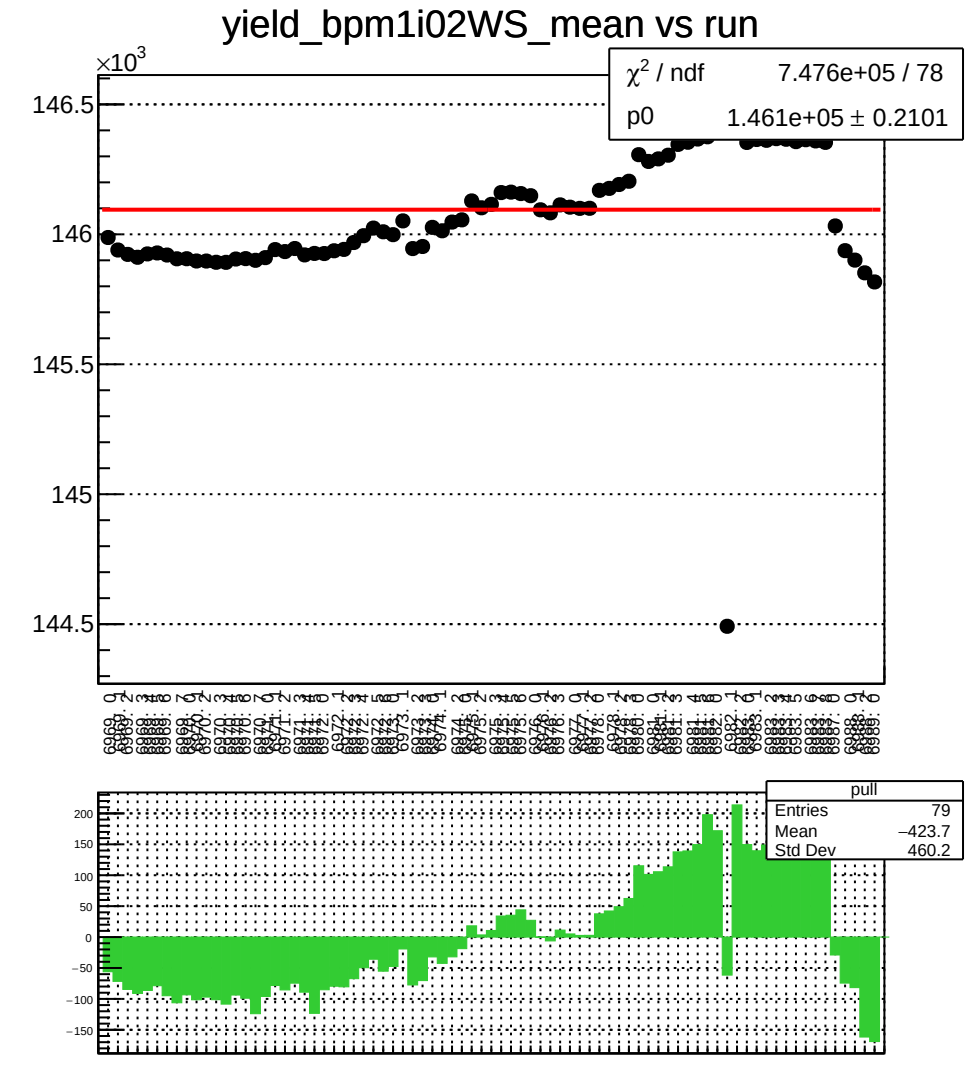

pull1D
Entries 79
Mean 2.009
Std Dev 4.04
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

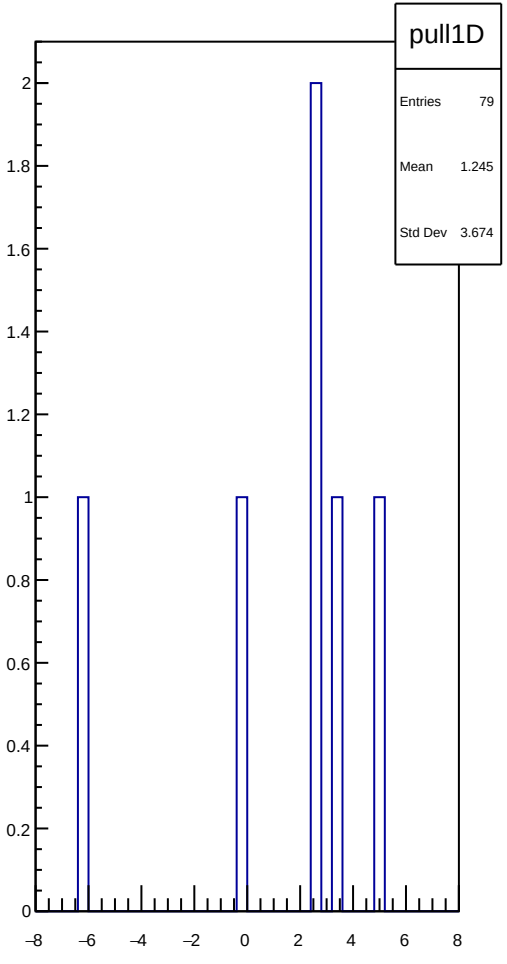

yield_bpm0i05WS_rms vs run
χ² / ndf 5.404e+04 / 78
p0 198.2 ± 0.1615
3000
2500
2000
1500
1000
500

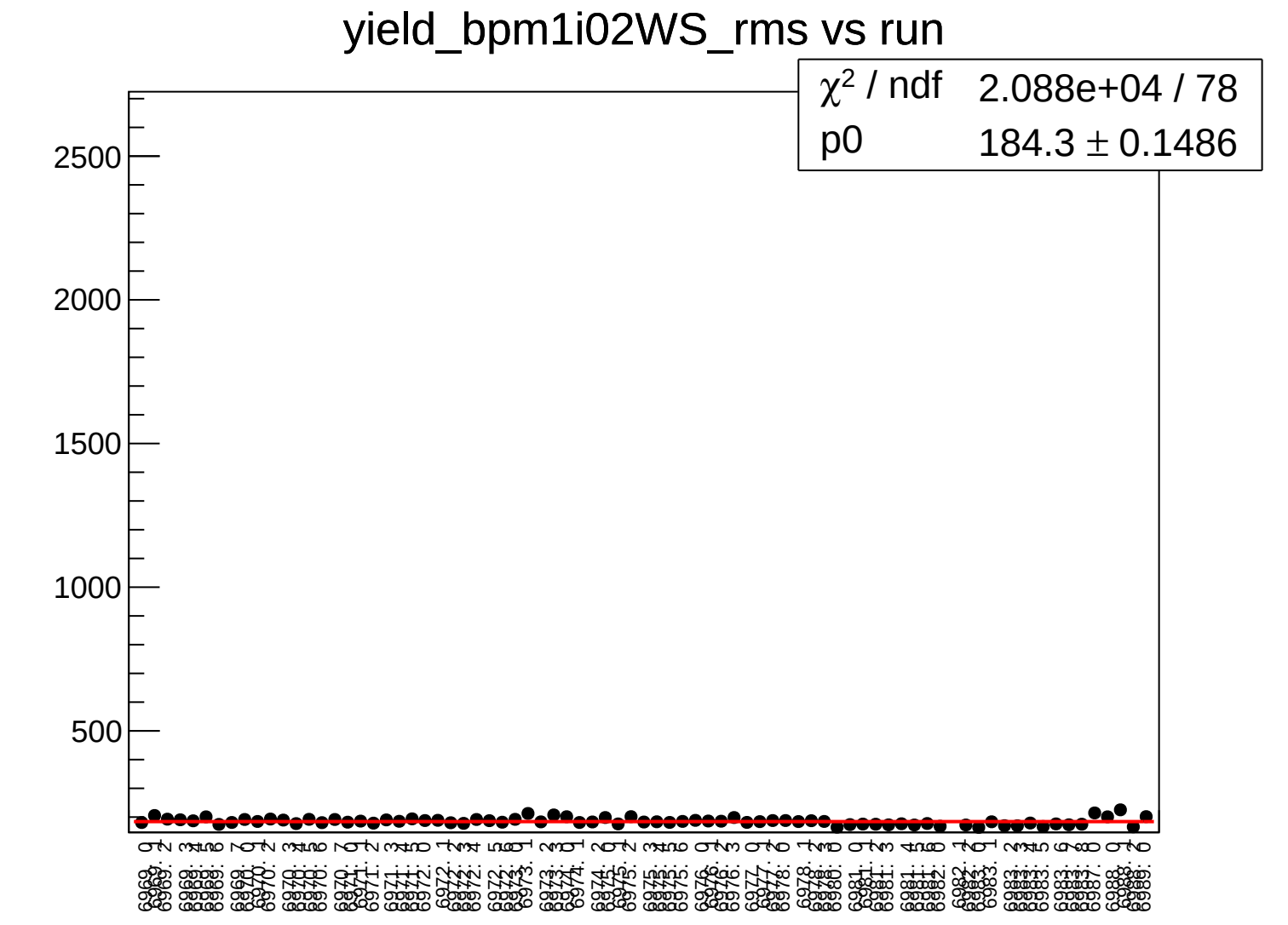

yield_bpm0i07WS_mean vs run
χ² / ndf 1.886e+05 / 78
p0 1.506e+05 ± 0.2235
×10³
151
150.5
150
149.5
149
148.5
pull
Entries 79
Mean 132.5
Std Dev 85.3
100
50
0
−50
−100
−150
−200

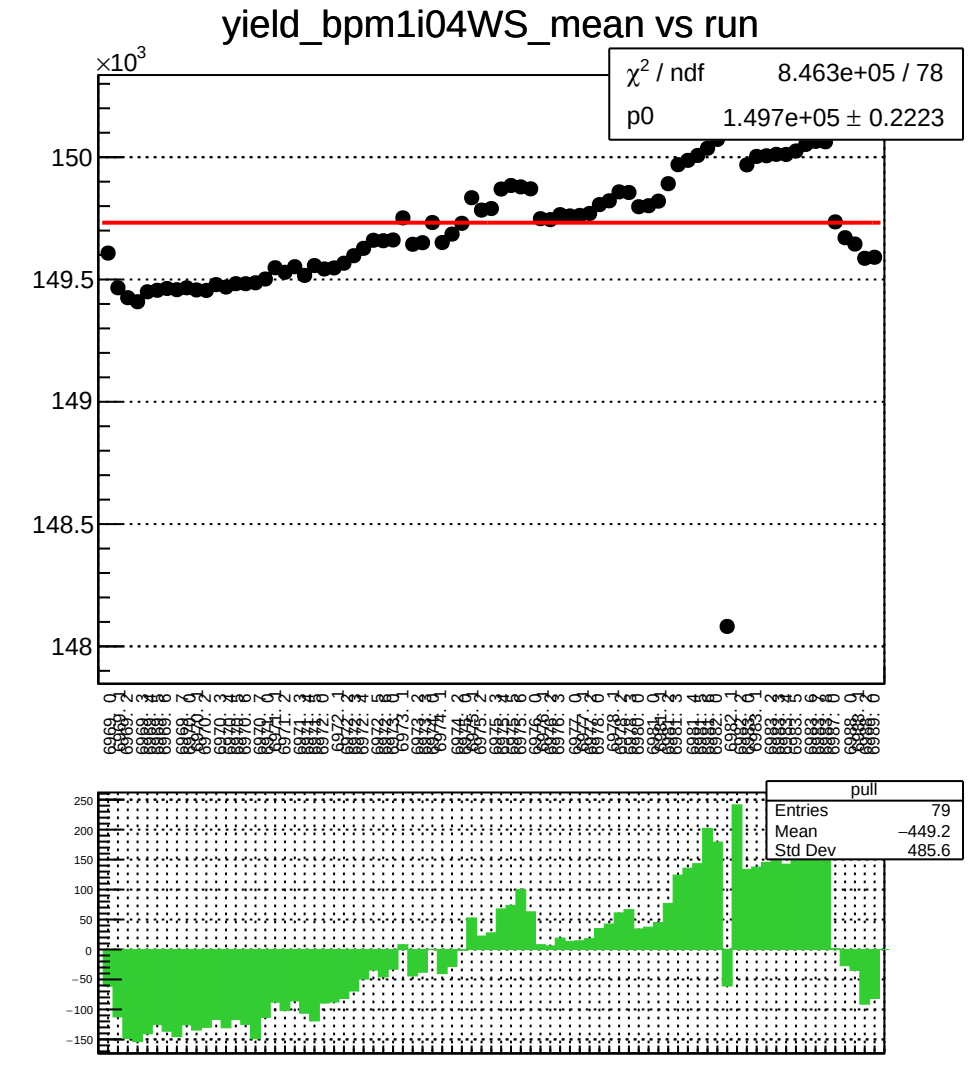

pull1D
Entries 79
Mean 1.416
Std Dev 4.551
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

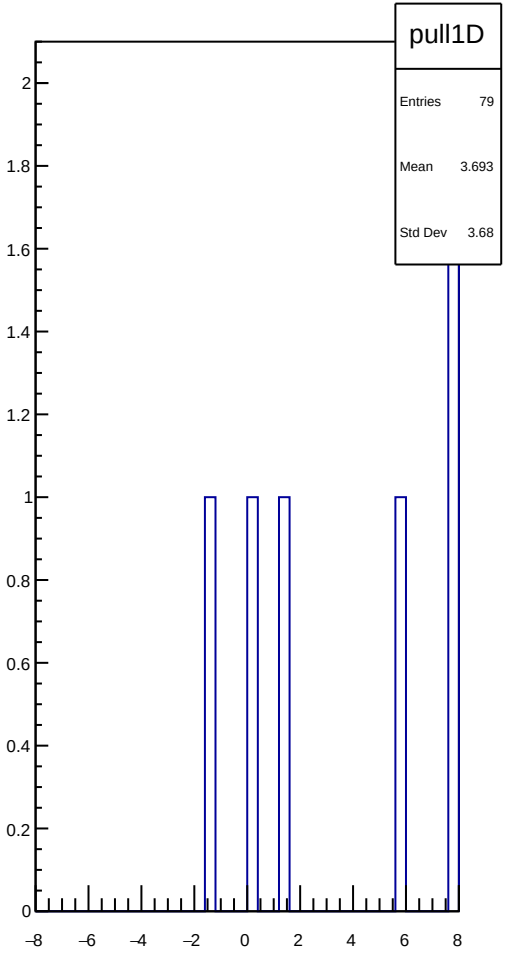

yield_bpm0i07WS_rms vs run
χ² / ndf 2.573e+04 / 78
p0 195.8 ± 0.1581
3000
2500
2000
1500
1000
500

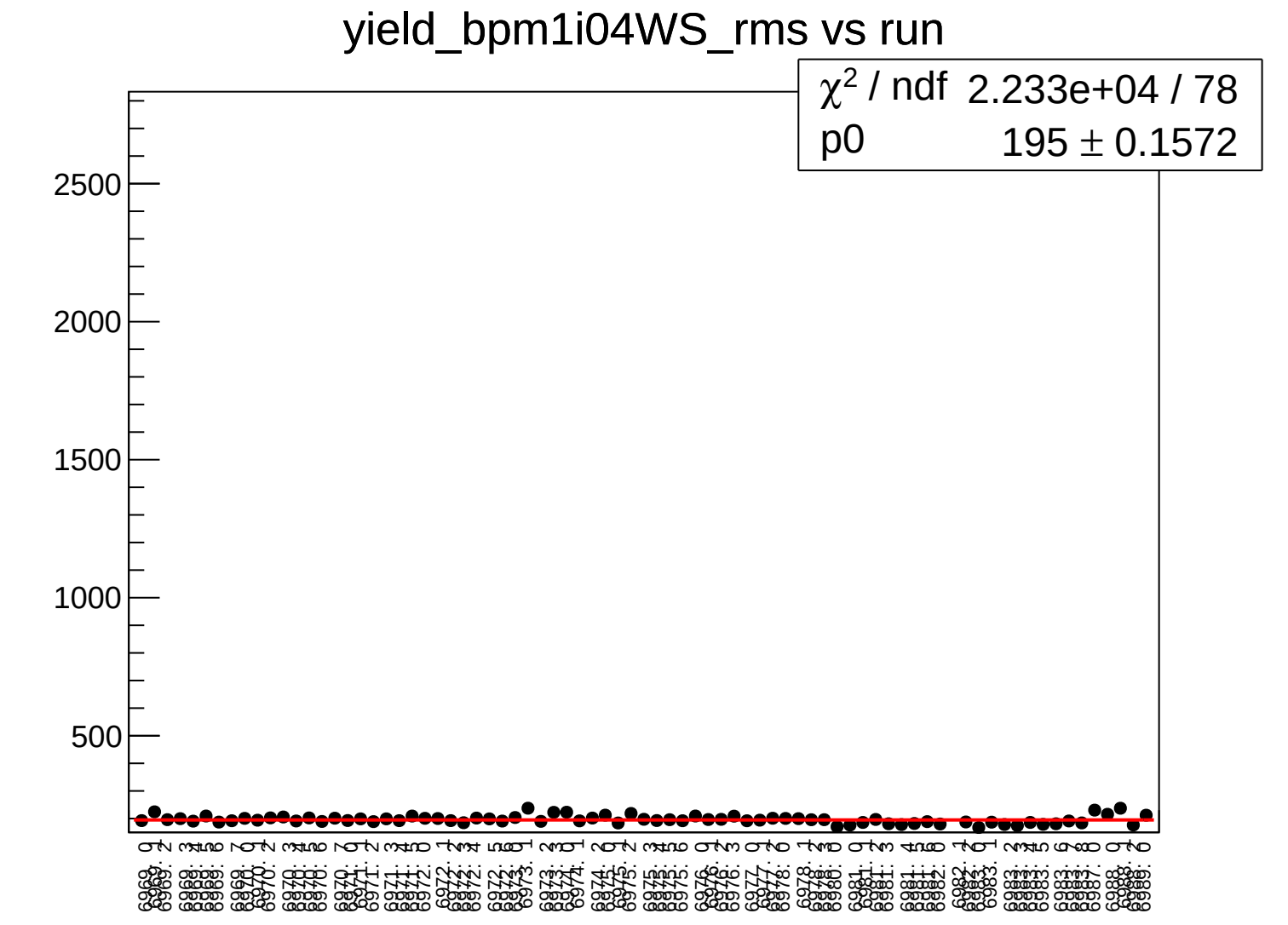

yield_bpm1i02WS_mean vs run
×10^3
χ^2 / ndf 7.476e+05 / 78
p0 1.461e+05 ± 0.2101
146.5
146
145.5
145
144.5
pull
Entries 79
Mean −423.7
Std Dev 460.2
200
150
100
50
0
−50
−100
−150

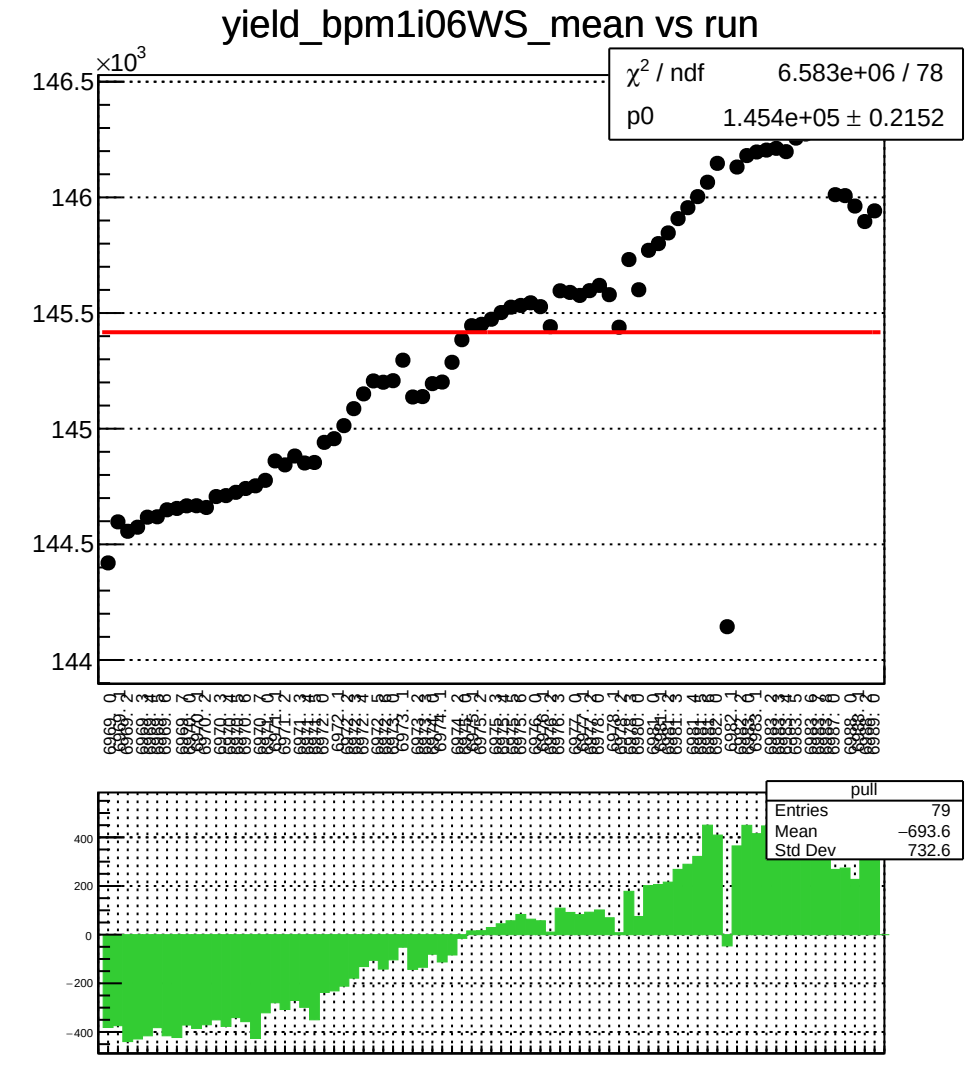

pull1D
Entries 79
Mean 1.245
Std Dev 3.674
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

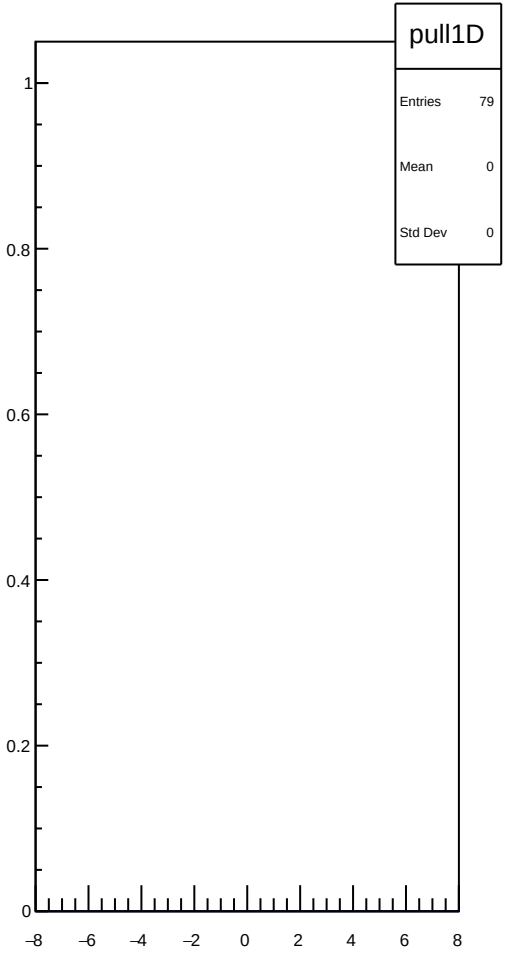

yield_bpm1i02WS_rms vs run
χ² / ndf 2.088e+04 / 78
p0 184.3 ± 0.1486
2500
2000
1500
1000
500

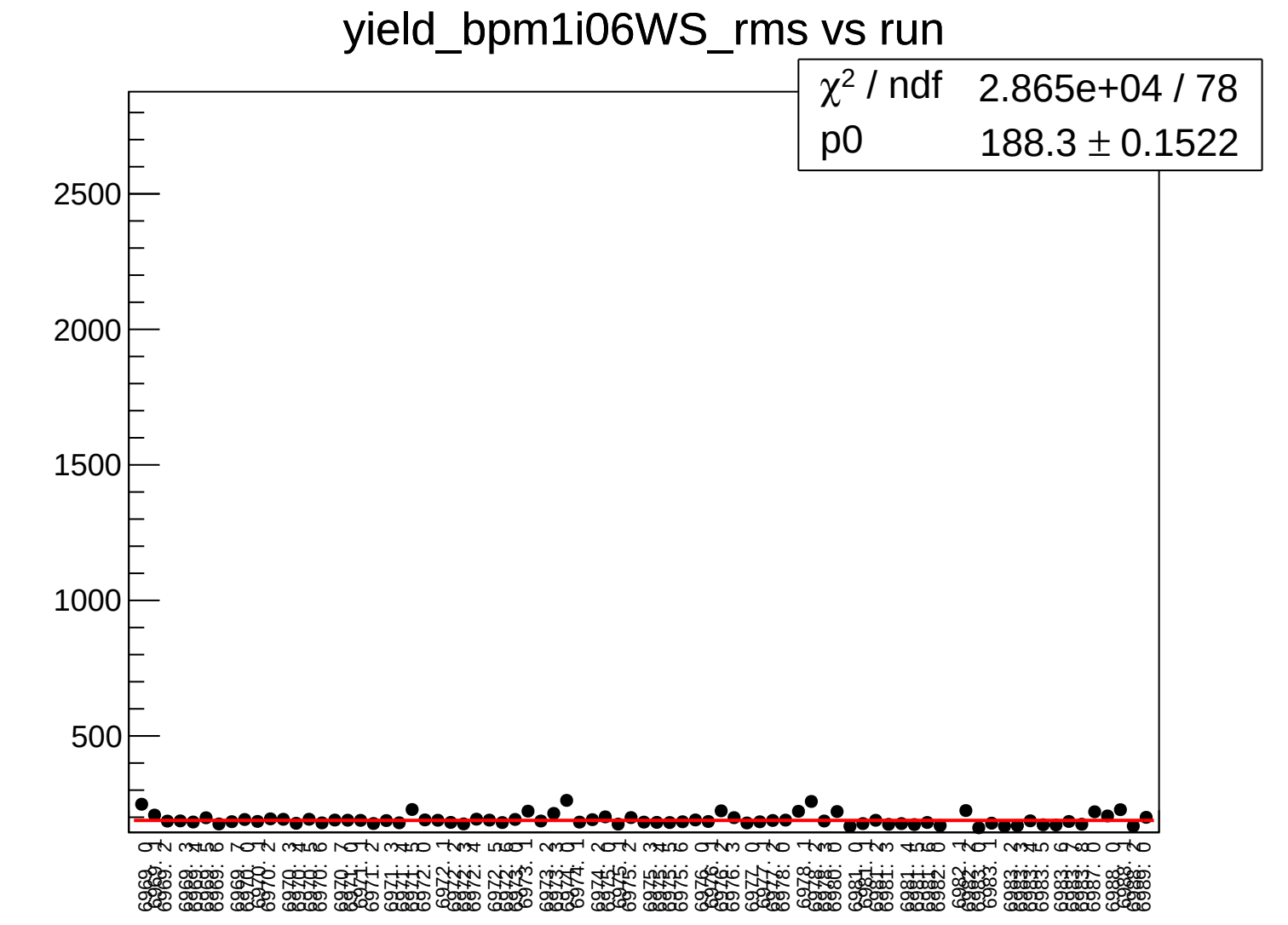

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 8.463e+05 / 78
p0 1.497e+05 ± 0.2223
150
149.5
149
148.5
148
pull
Entries 79
Mean −449.2
Std Dev 485.6
250
200
150
100
50
0
−50
−100
−150

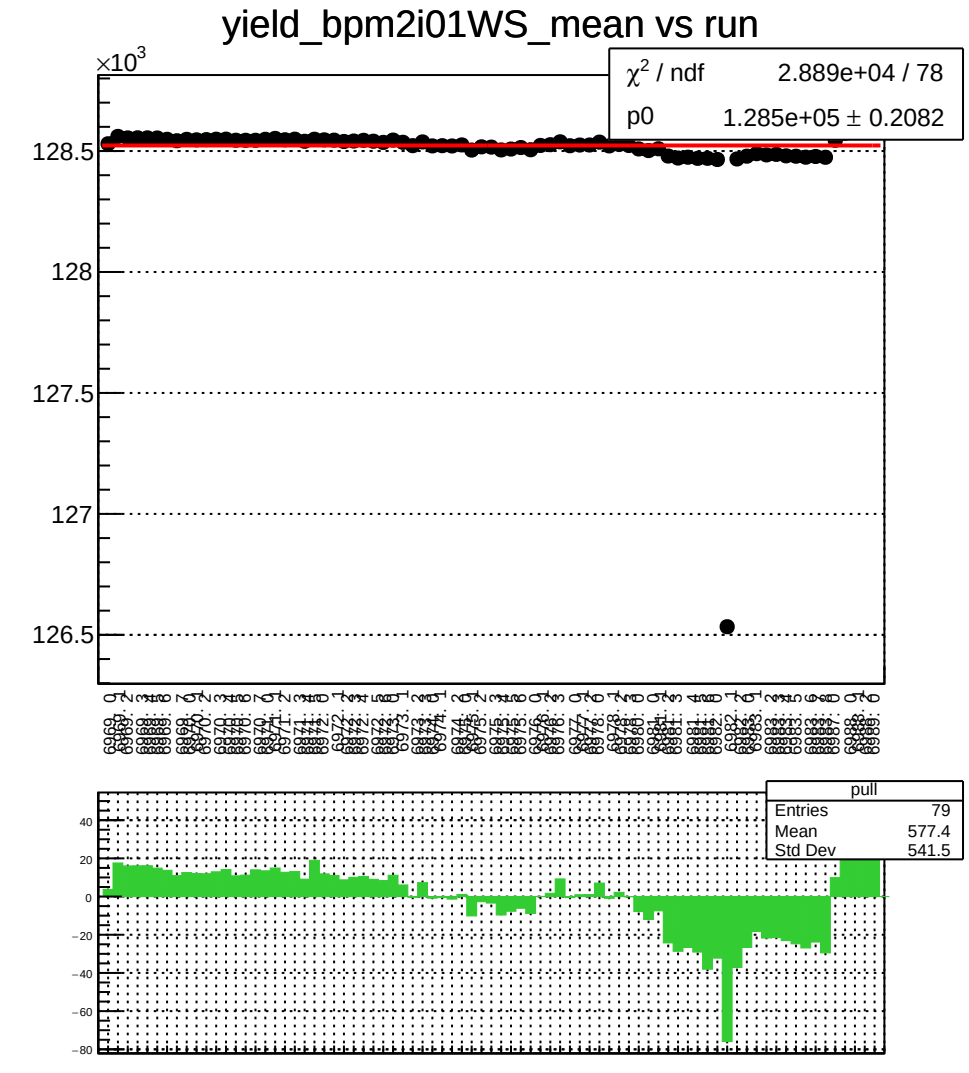

pull1D
Entries 79
Mean 3.693
Std Dev 3.68
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

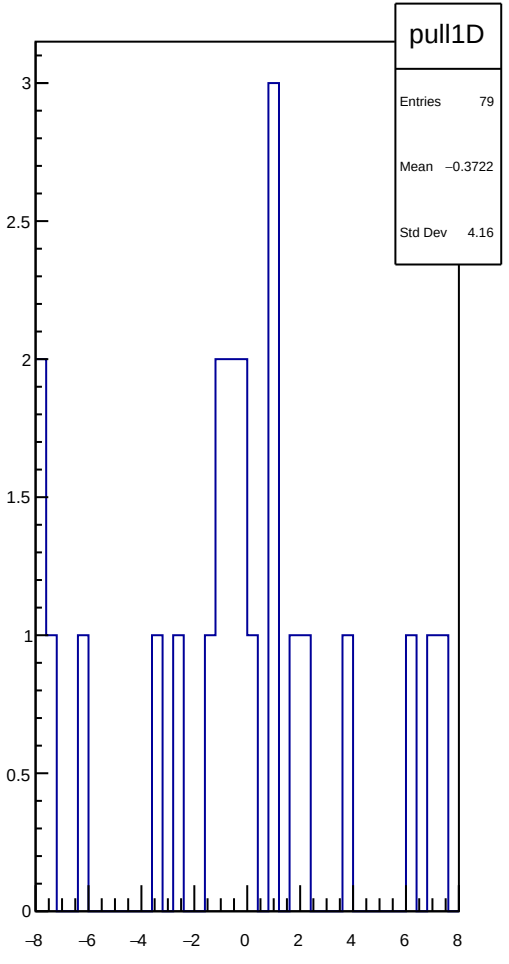

yield_bpm1i04WS_rms vs run
χ² / ndf 2.233e+04 / 78
p0 195 ± 0.1572
2500
2000
1500
1000
500

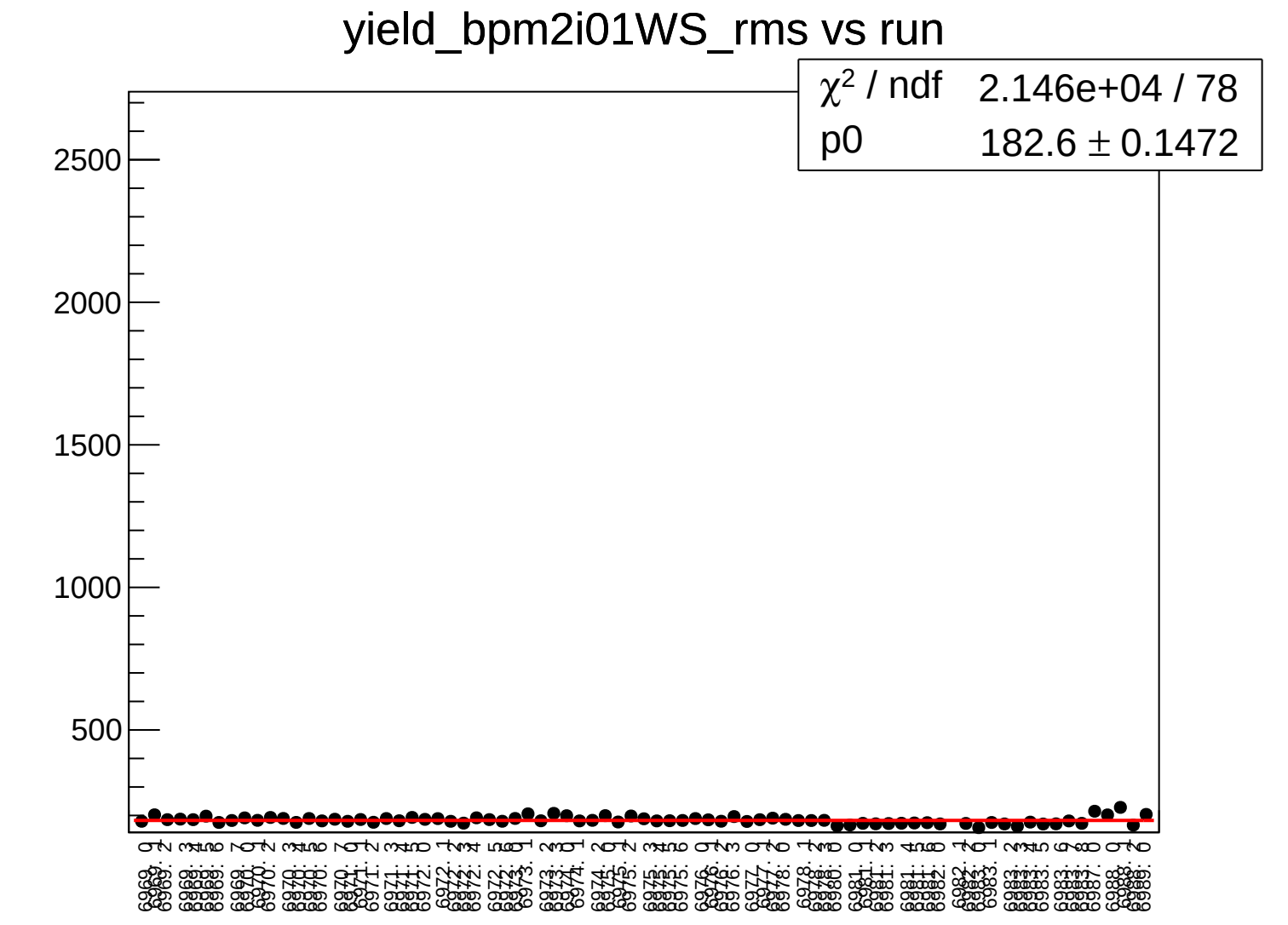

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 6.583e+06 / 78
p0 1.454e+05 ± 0.2152
146.5
146
145.5
145
144.5
144
pull
Entries 79
Mean −693.6
Std Dev 732.6
400
200
0
−200
−400

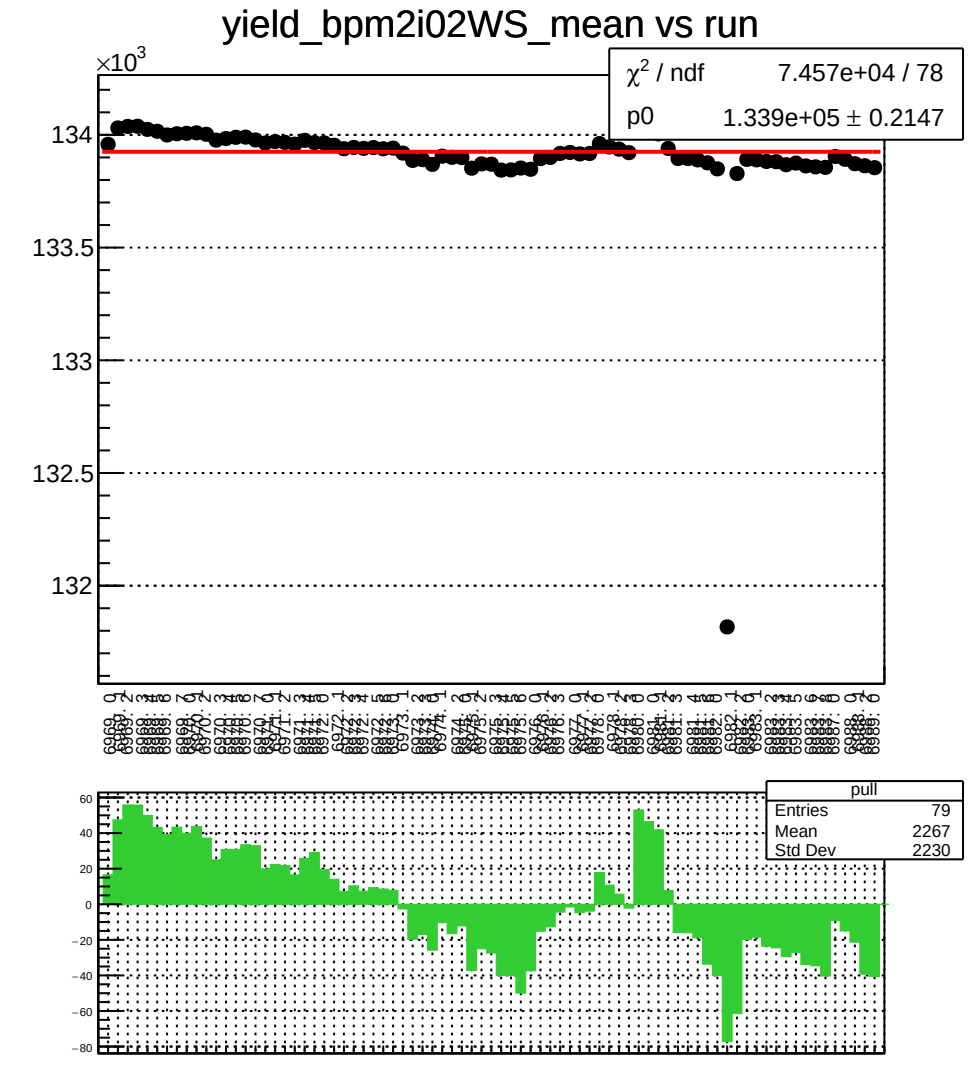

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

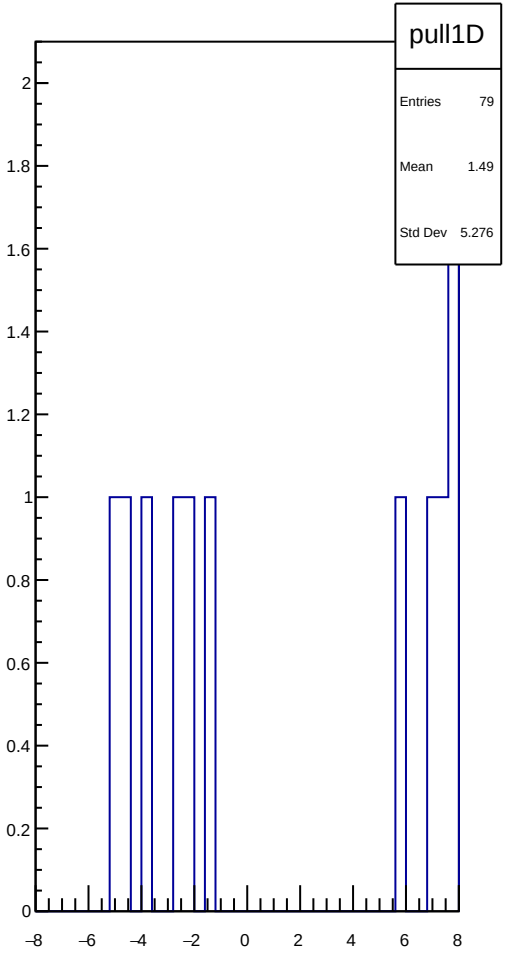

yield_bpm1i06WS_rms vs run
χ² / ndf 2.865e+04 / 78
p0 188.3 ± 0.1522
2500
2000
1500
1000
500

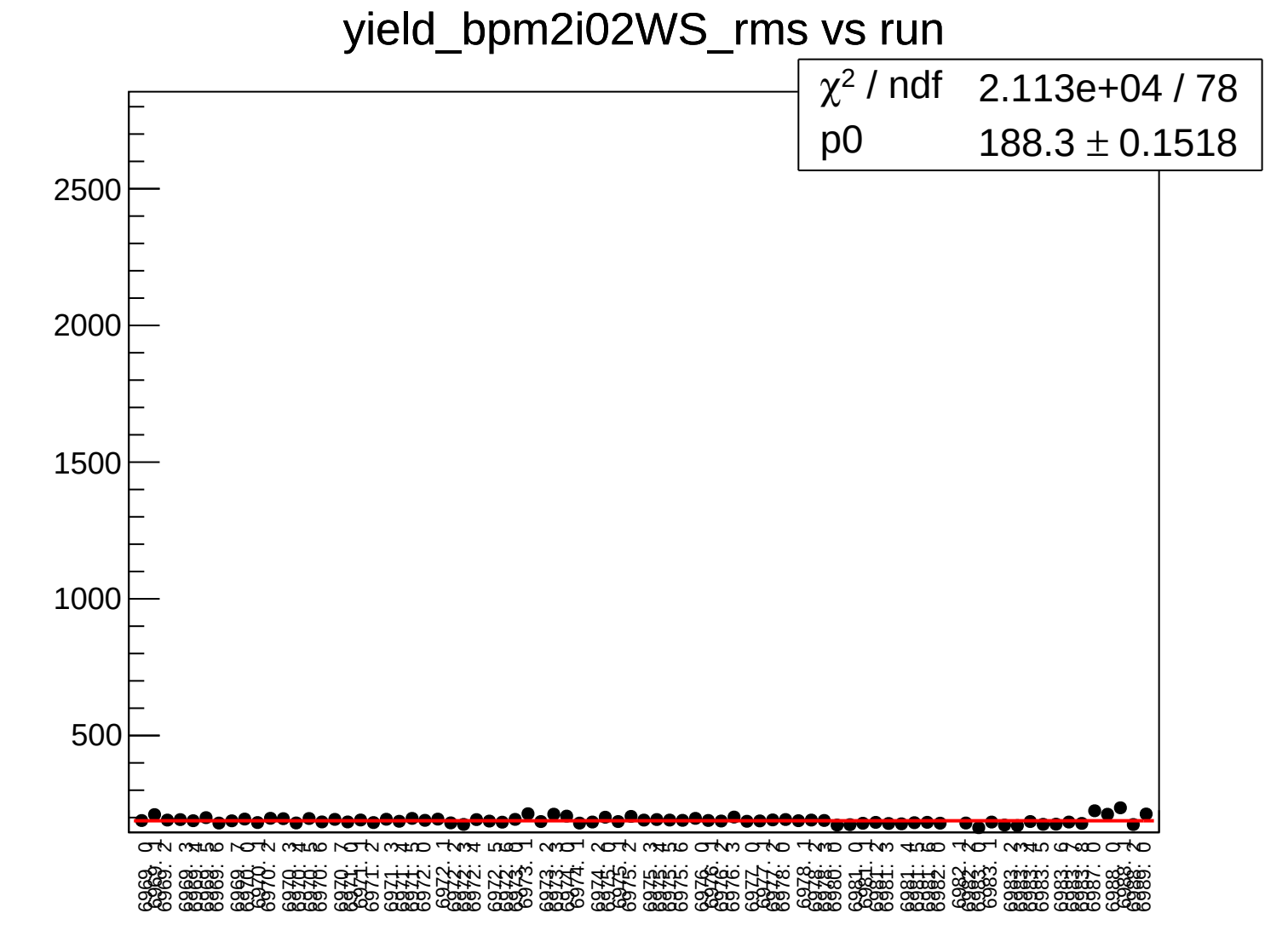

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.889e+04 / 78
p0 1.285e+05 ± 0.2082
128.5
128
127.5
127
126.5
pull
Entries 79
Mean 577.4
Std Dev 541.5
40
20
0
−20
−40
−60
−80

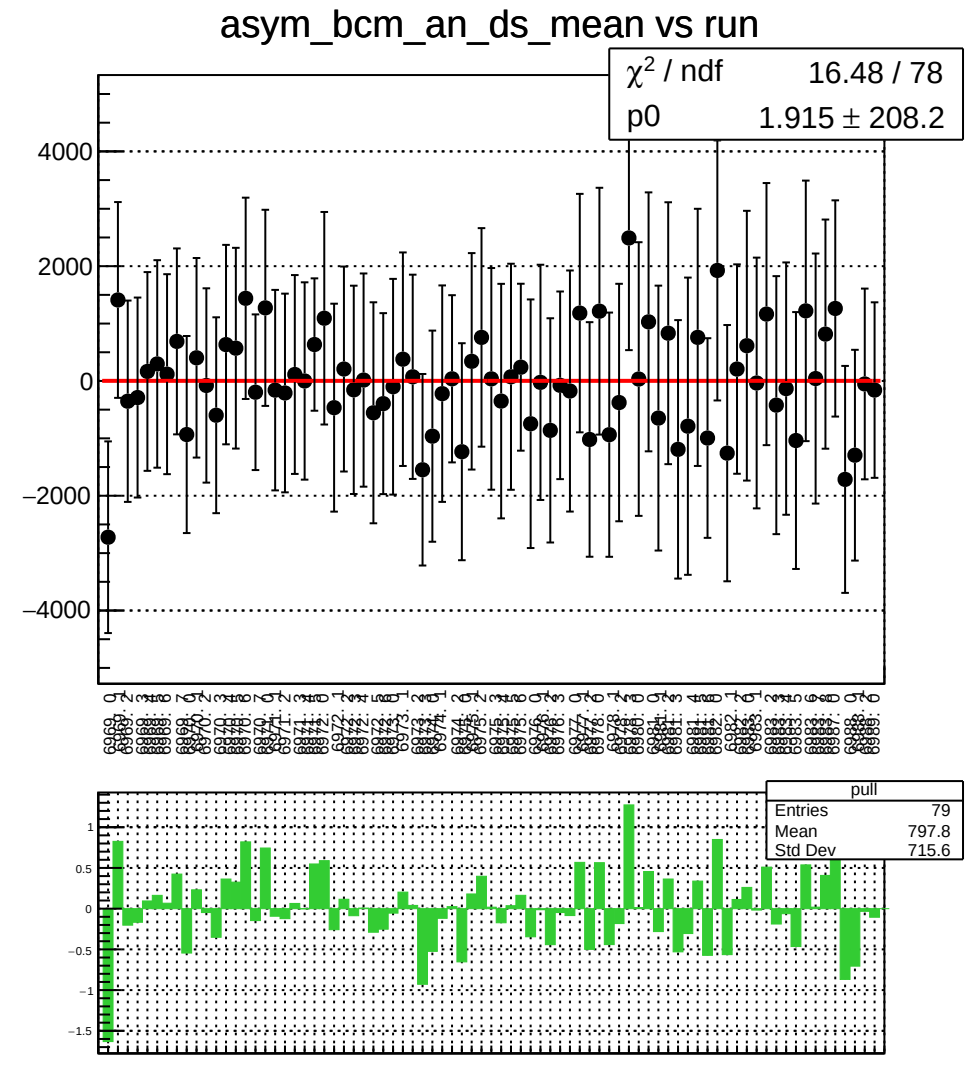

pull1D
Entries 79
Mean −0.3722
Std Dev 4.16
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

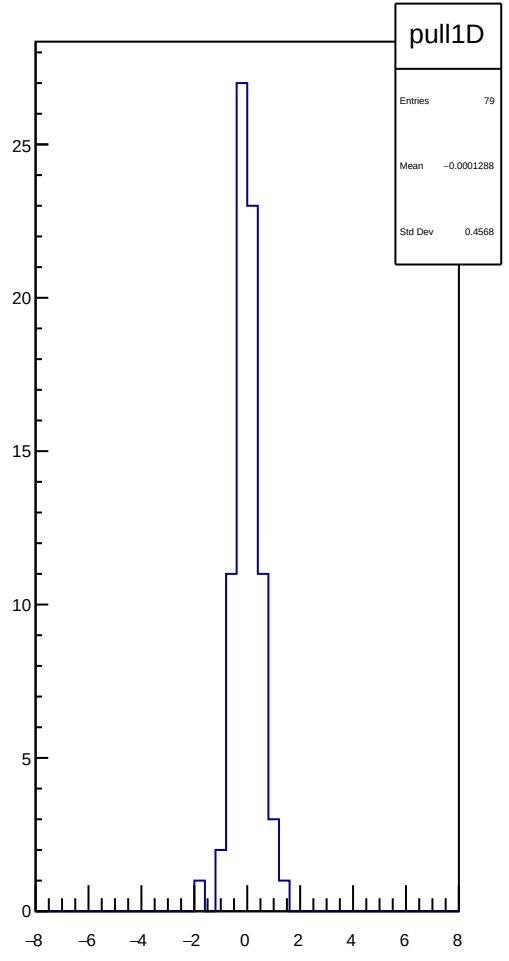

yield_bpm2i01WS_rms vs run
χ² / ndf 2.146e+04 / 78
p0 182.6 ± 0.1472
2500
2000
1500
1000
500

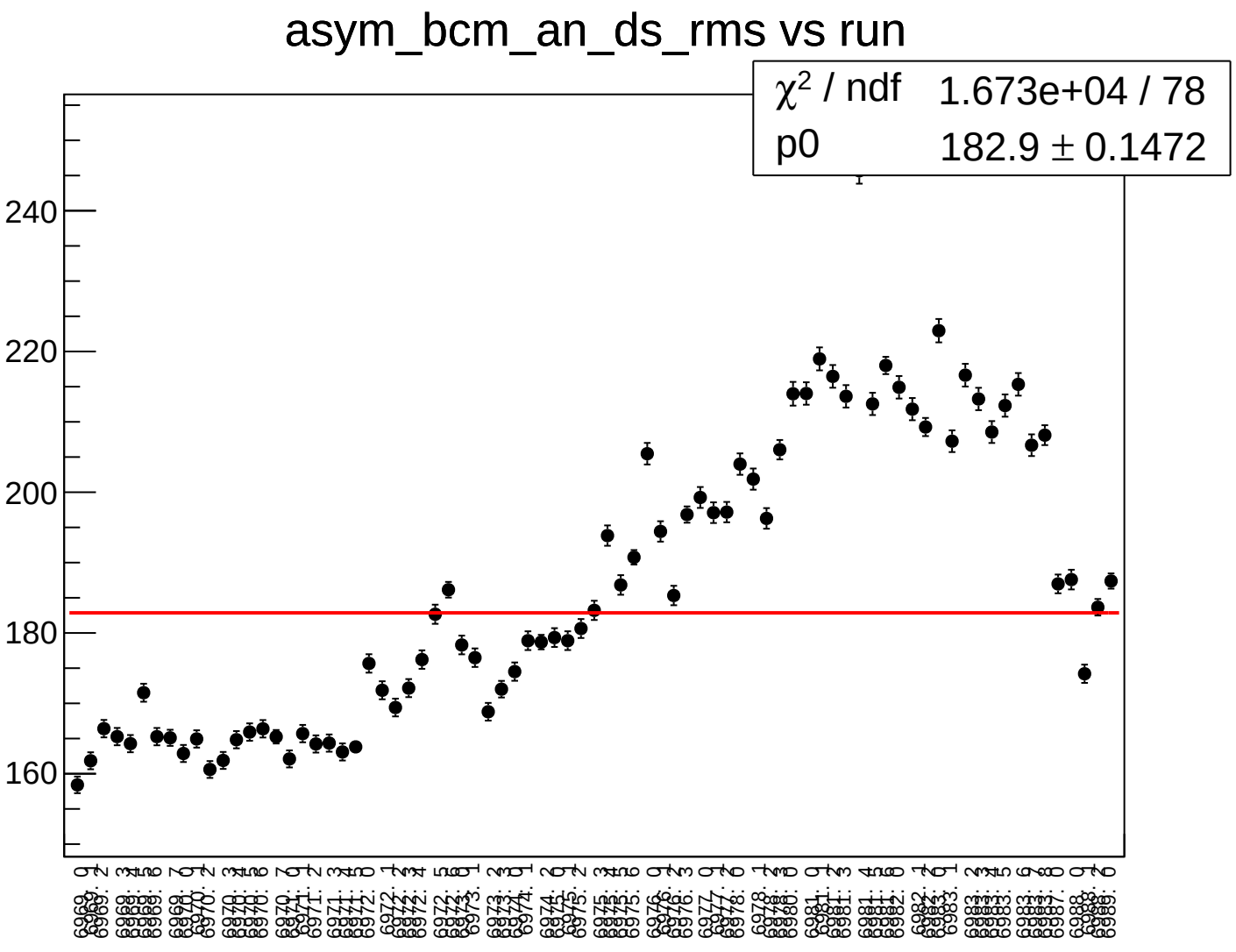

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 7.457e+04 / 78
p0 1.339e+05 ± 0.2147
134
133.5
133
132.5
132
pull
Entries 79
Mean 2267
Std Dev 2230
60
40
20
0
−20
−40
−60
−80

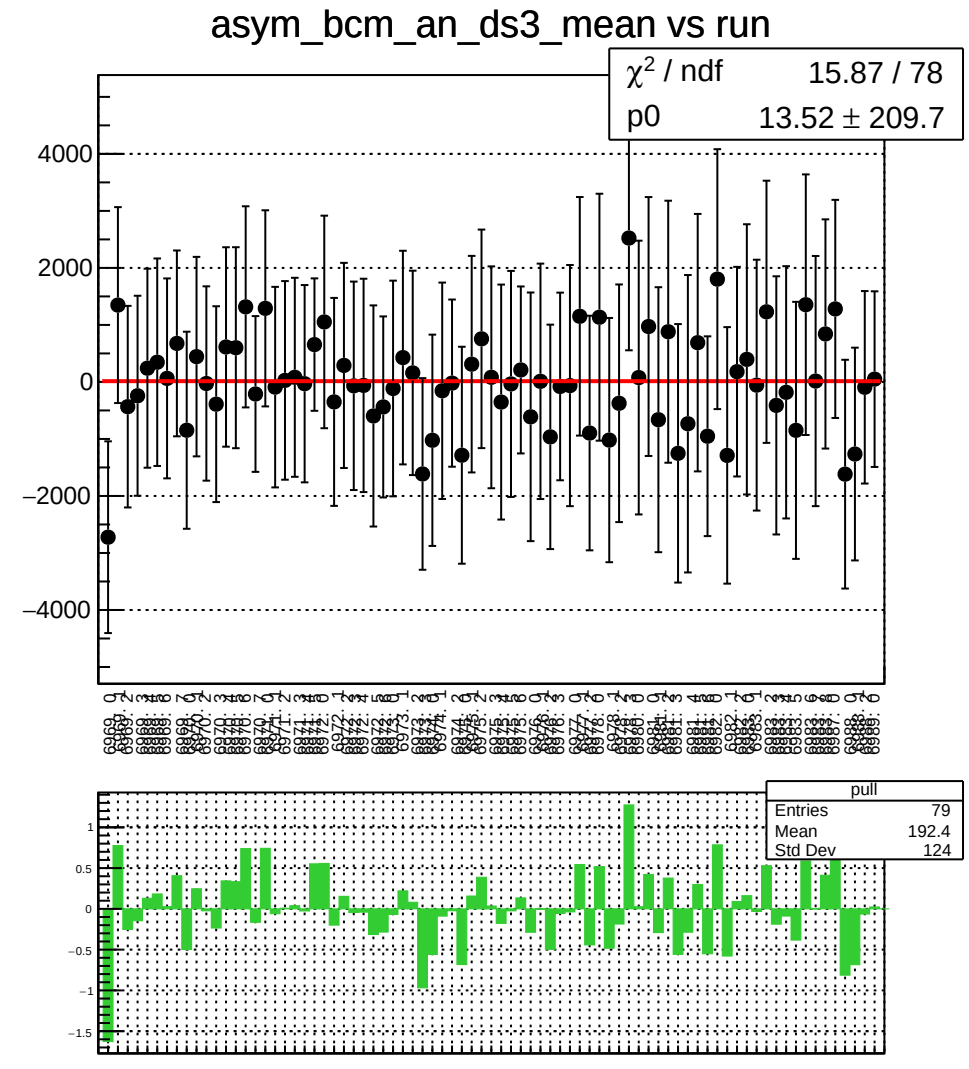

pull1D
Entries 79
Mean 1.49
Std Dev 5.276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

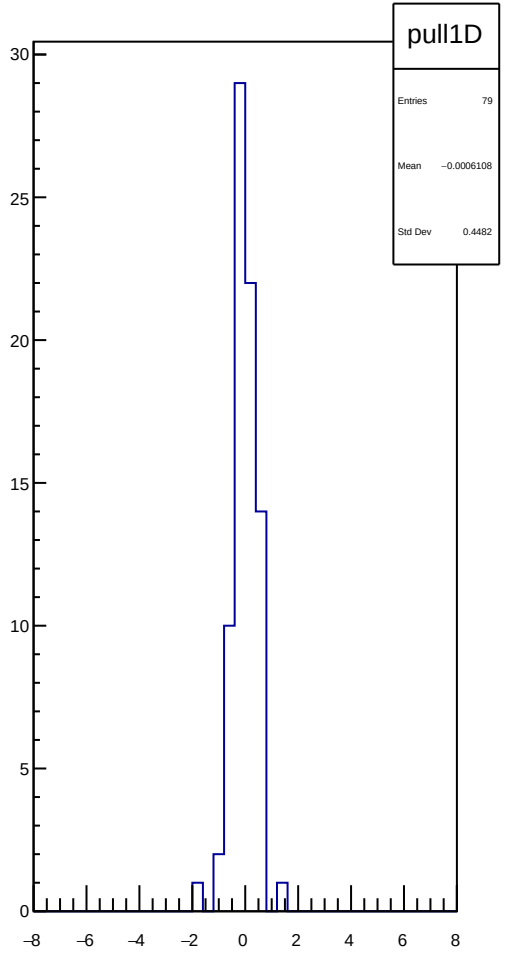

yield_bpm2i02WS_rms vs run
χ² / ndf 2.113e+04 / 78
p0 188.3 ± 0.1518
2500
2000
1500
1000
500

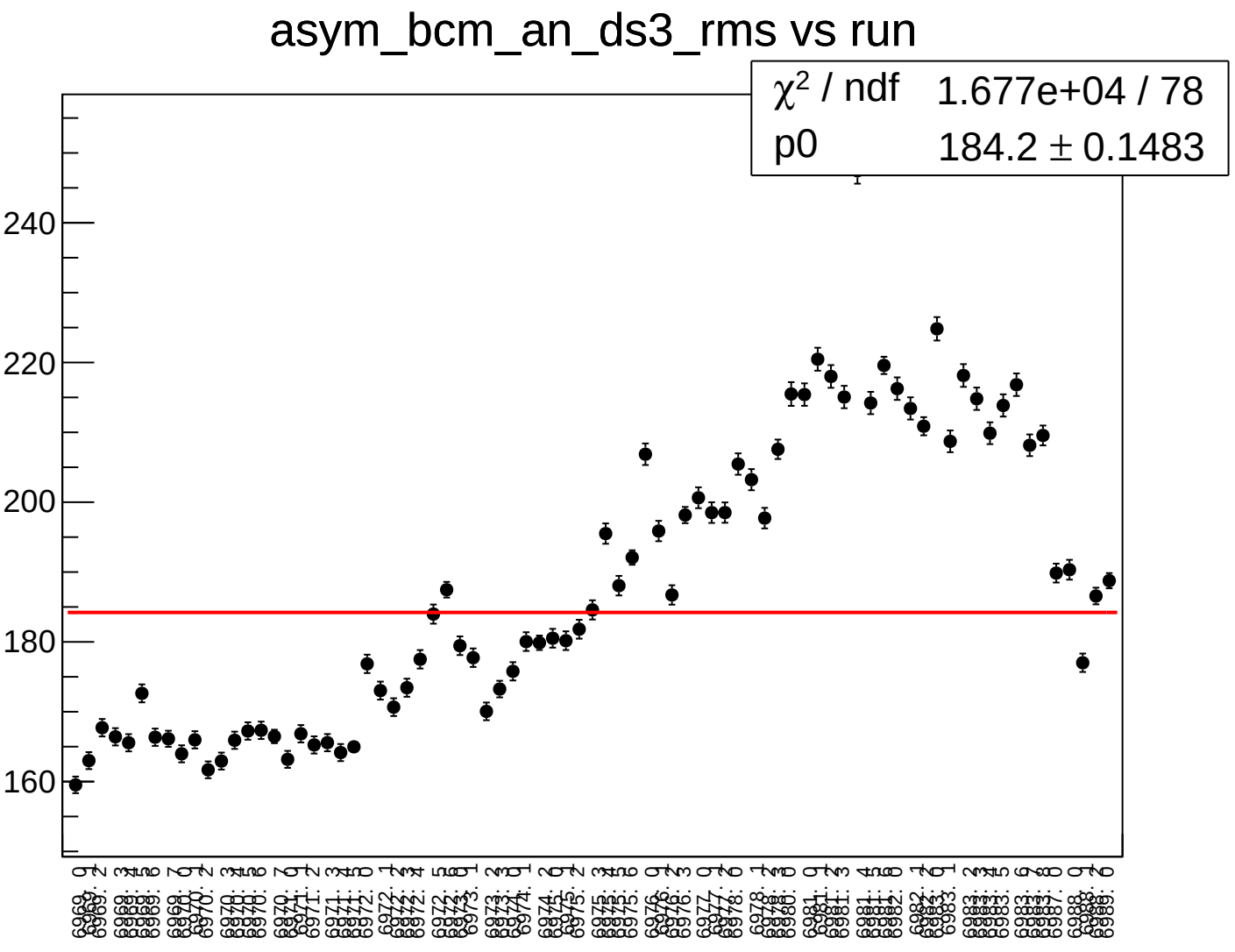

asym_bcm_an_ds_mean vs run
χ² / ndf 16.48 / 78
p0 1.915 ± 208.2
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 797.8
Std Dev 715.6
1
0.5
0
−0.5
−1
−1.5

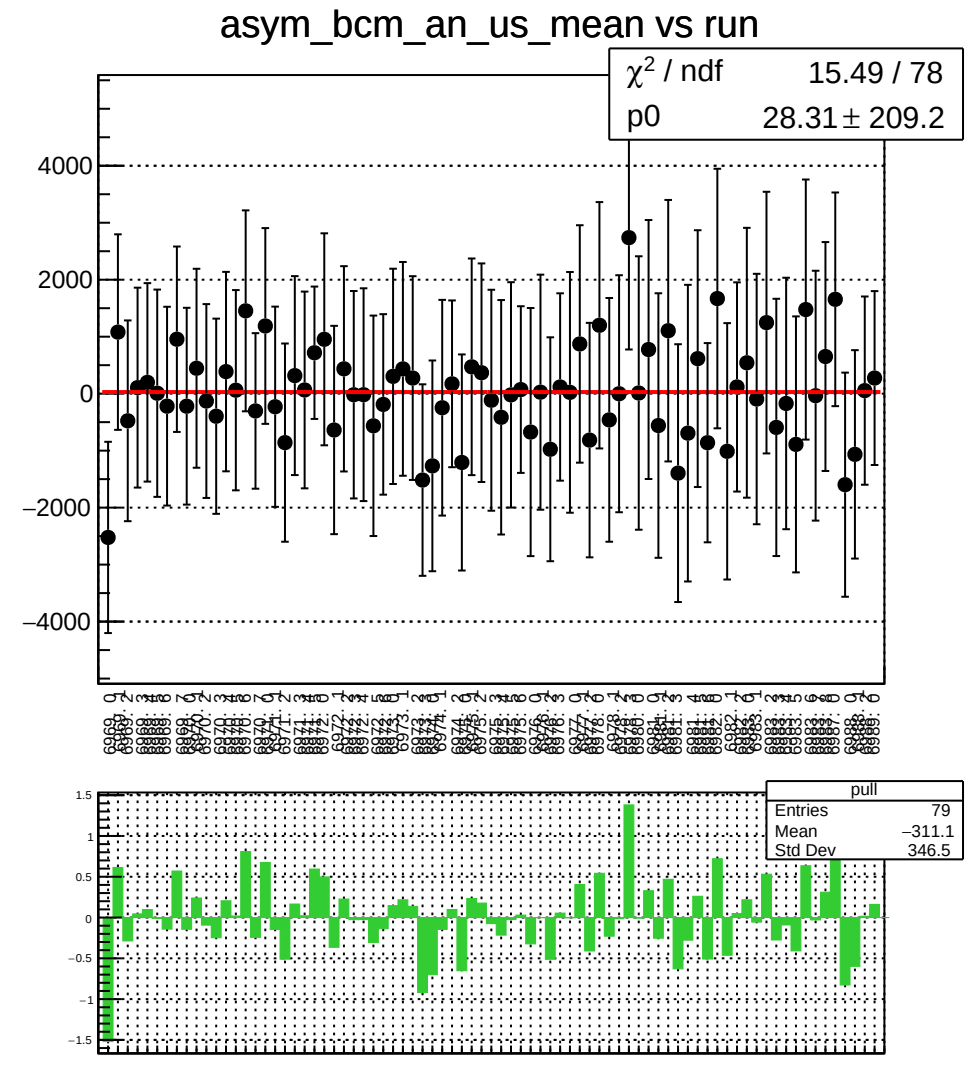

pull1D
Entries 79
Mean −0.0001288
Std Dev 0.4568
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

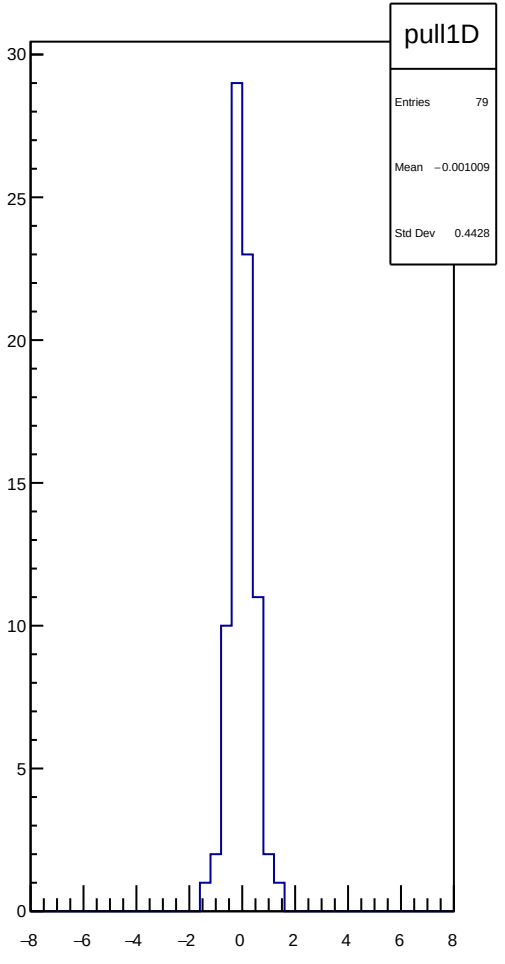

asym_bcm_an_ds_rms vs run
χ² / ndf 1.673e+04 / 78
p0 182.9 ± 0.1472
240
220
200
180
160

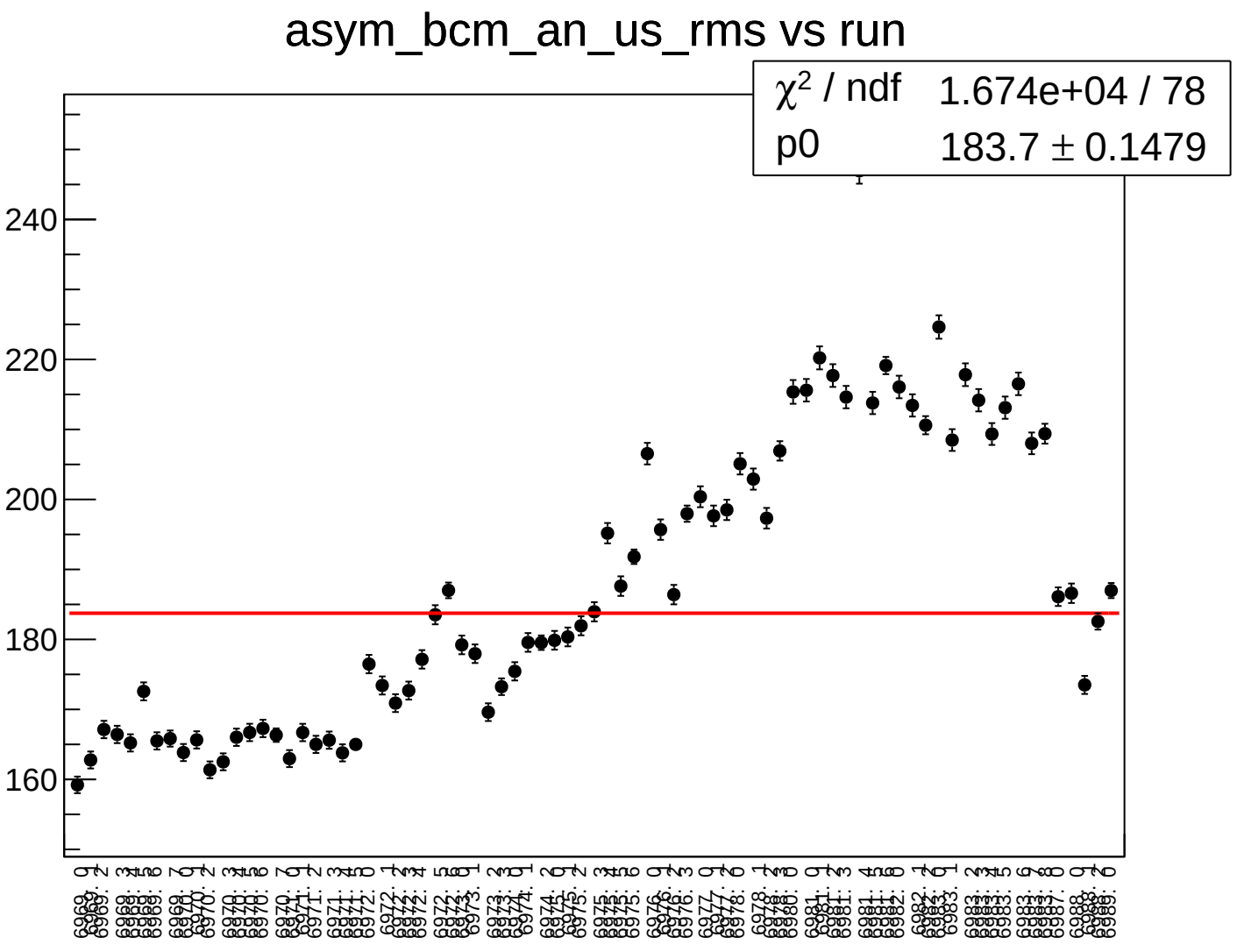

asym_bcm_an_ds3_mean vs run
χ² / ndf 15.87 / 78
p0 13.52 ± 209.7
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 192.4
Std Dev 124
1
0.5
0
−0.5
−1
−1.5

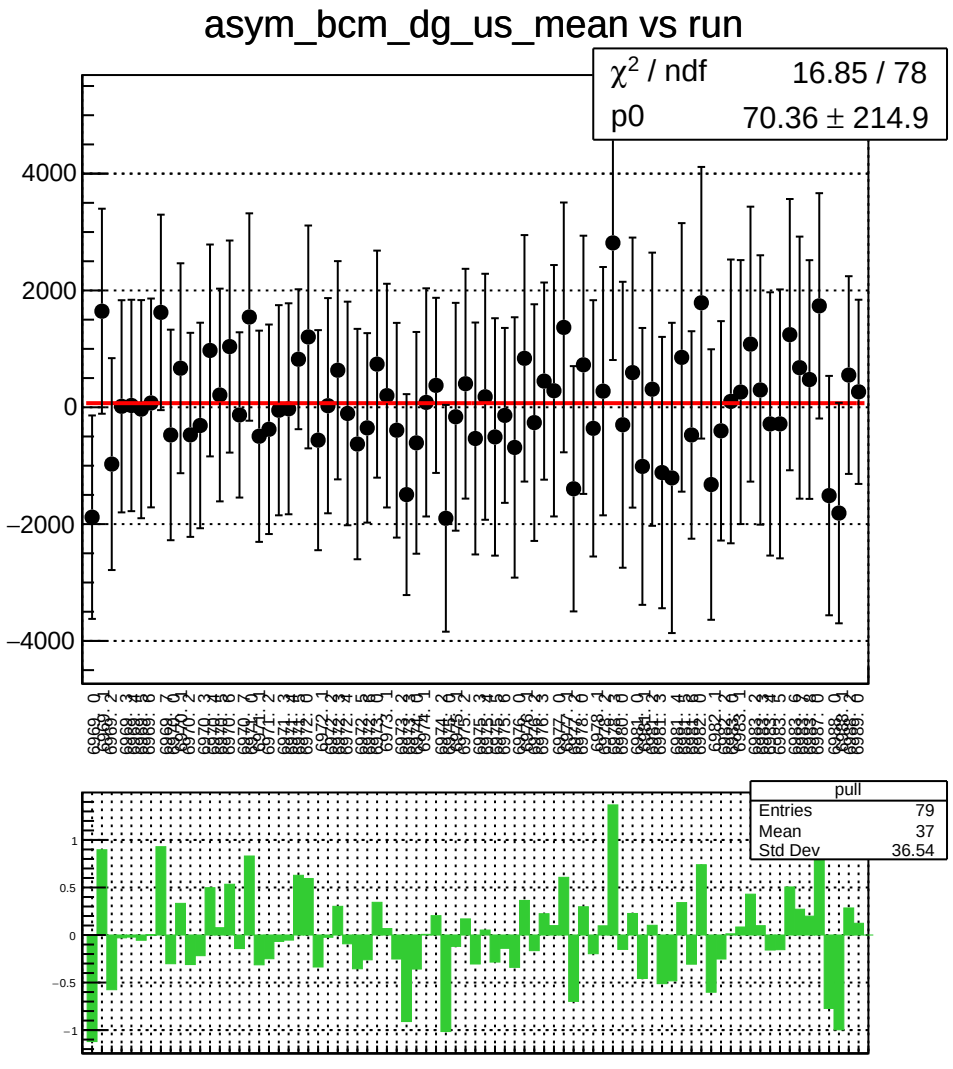

pull1D
Entries 79
Mean −0.0006108
Std Dev 0.4482
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

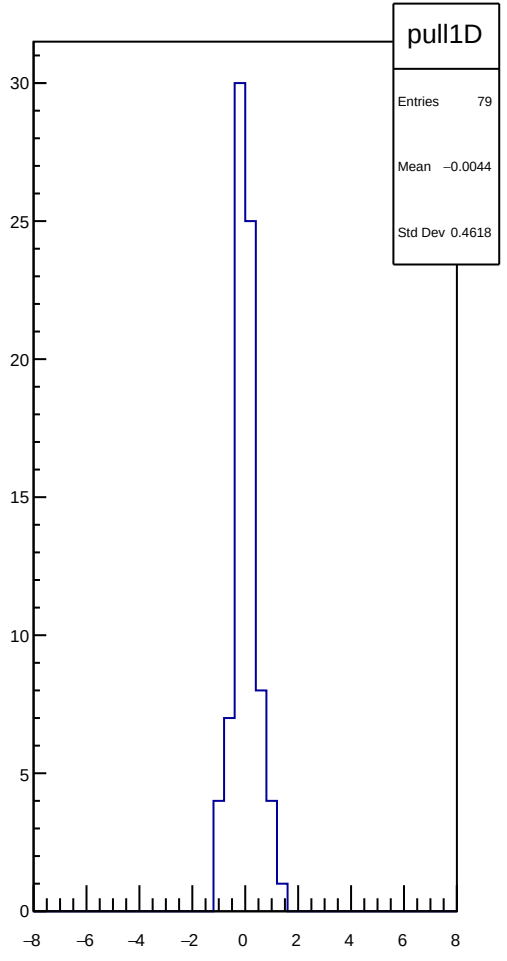

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.677e+04 / 78
p0 184.2 ± 0.1483
240
220
200
180
160

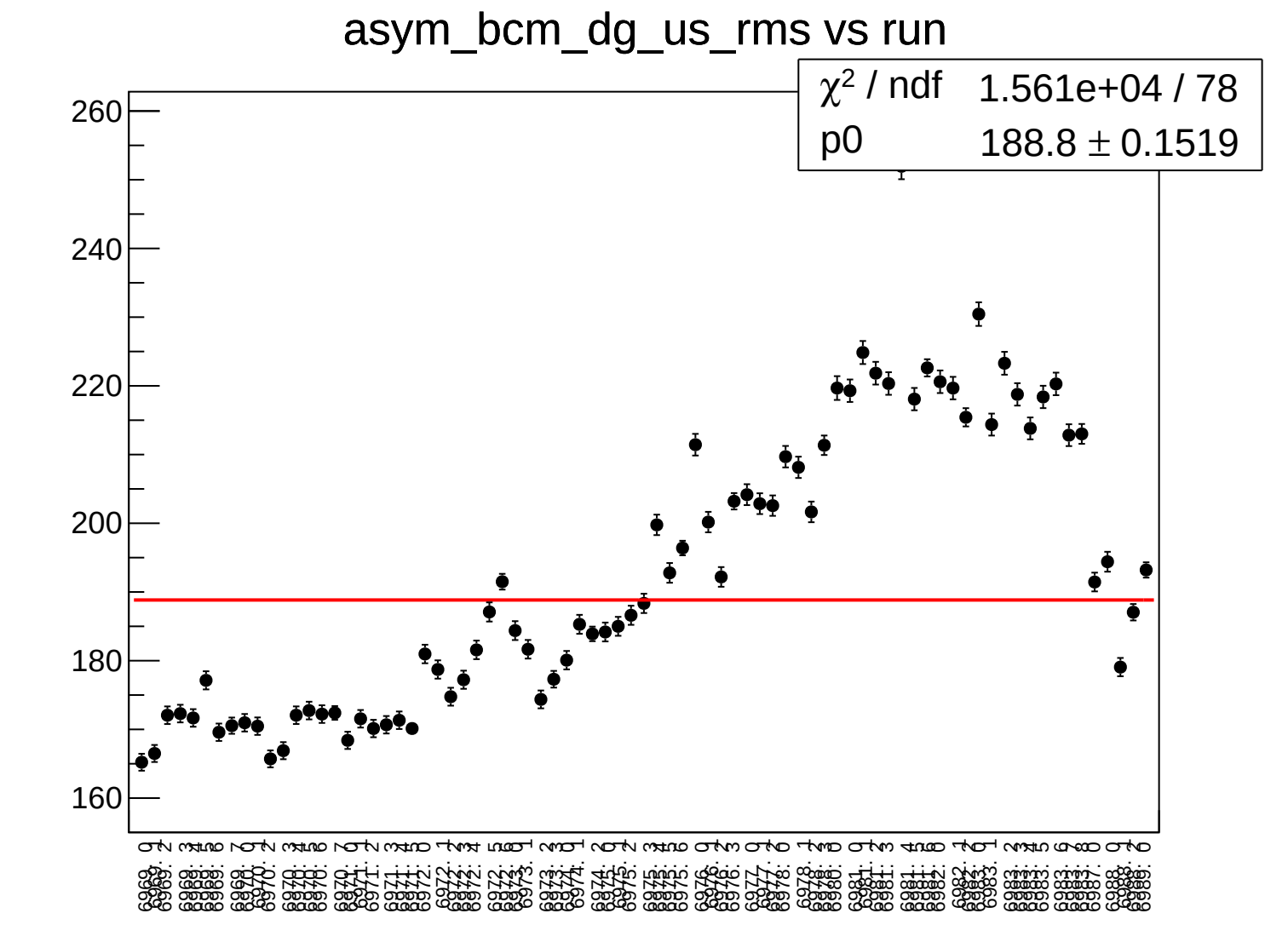

asym_bcm_an_us_mean vs run
χ² / ndf 15.49 / 78
p0 28.31 ± 209.2
4000
2000
0
−2000
−4000
pull
Entries 79
Mean −311.1
Std Dev 346.5
1.5
1
0.5
0
−0.5
−1
−1.5

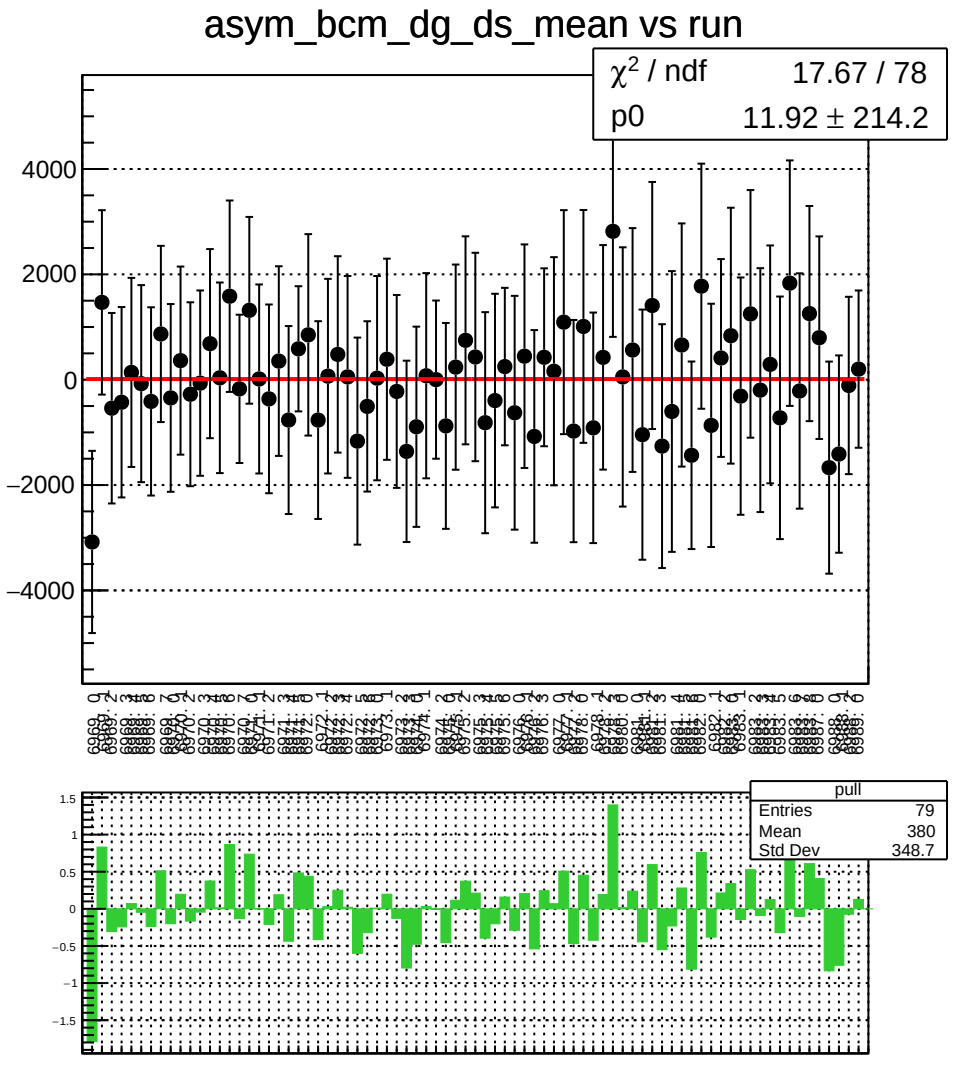

pull1D
Entries 79
Mean −0.001009
Std Dev 0.4428
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

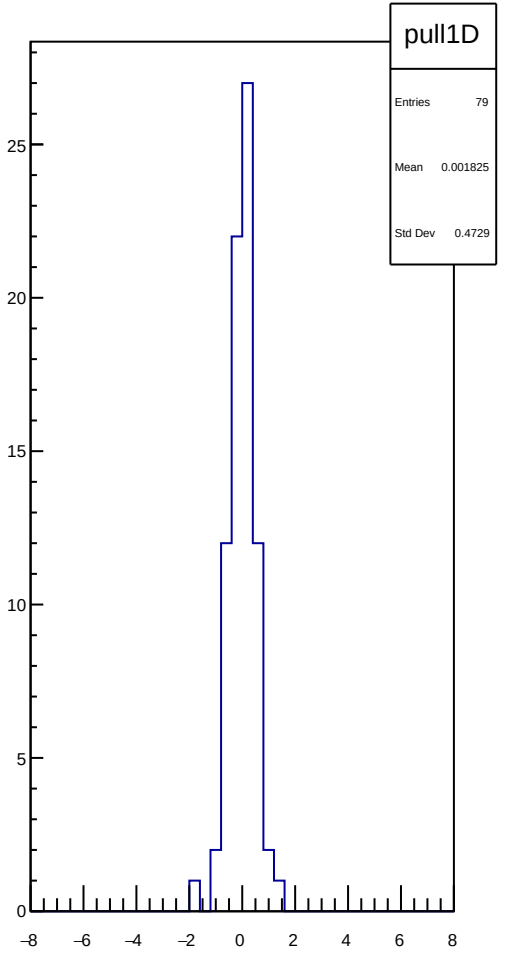

asym_bcm_an_us_rms vs run
χ² / ndf 1.674e+04 / 78
p0 183.7 ± 0.1479
240
220
200
180
160

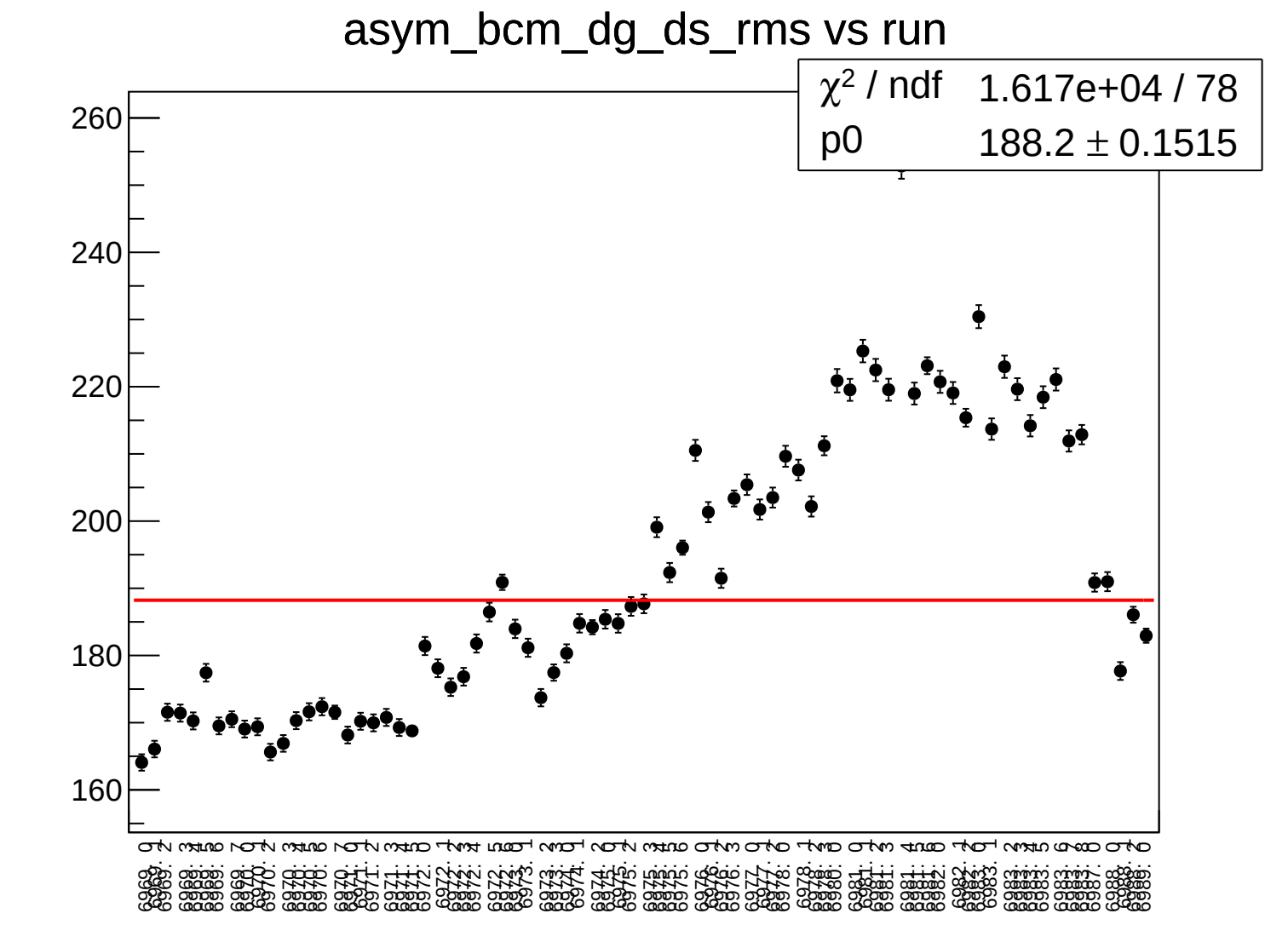

asym_bcm_dg_us_mean vs run
χ² / ndf 16.85 / 78
p0 70.36 ± 214.9
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 37
Std Dev 36.54
1
0.5
0
−0.5
−1

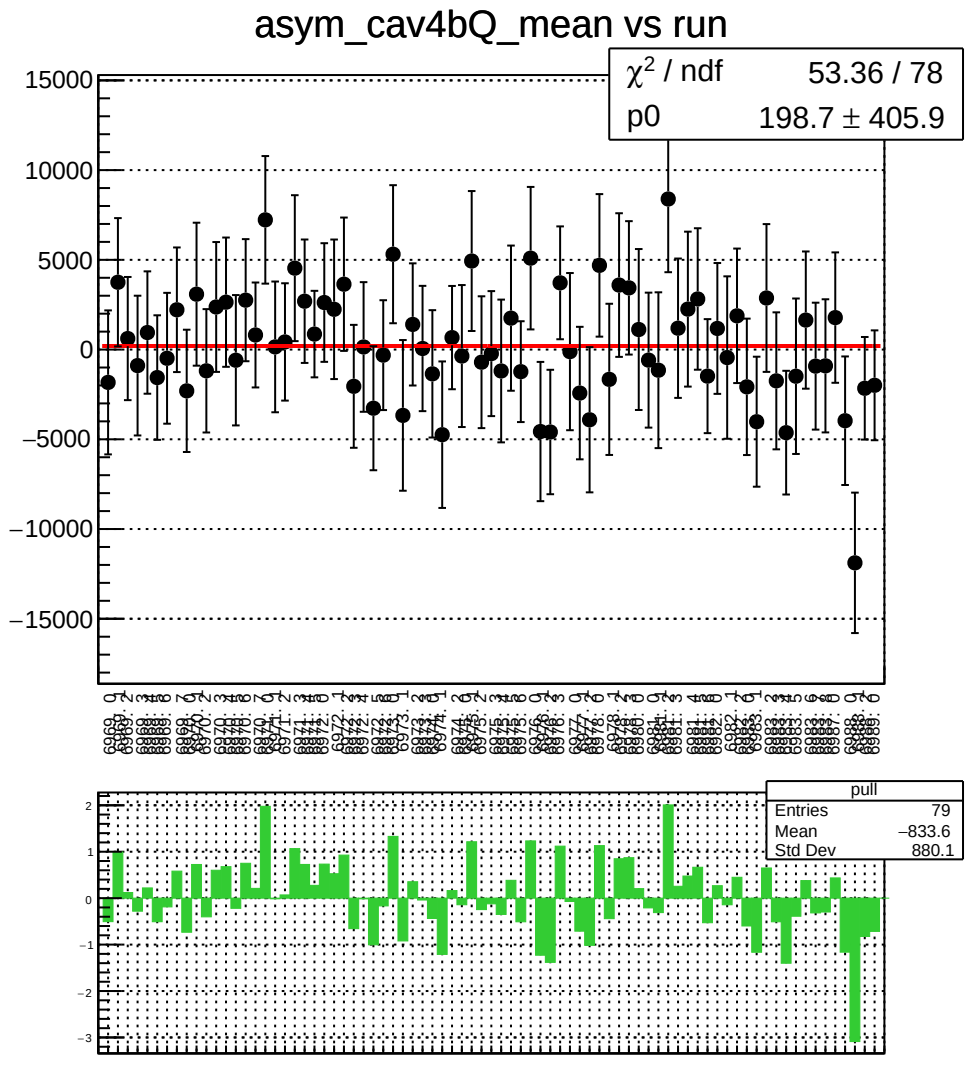

pull1D
Entries 79
Mean −0.0044
Std Dev 0.4618
30
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

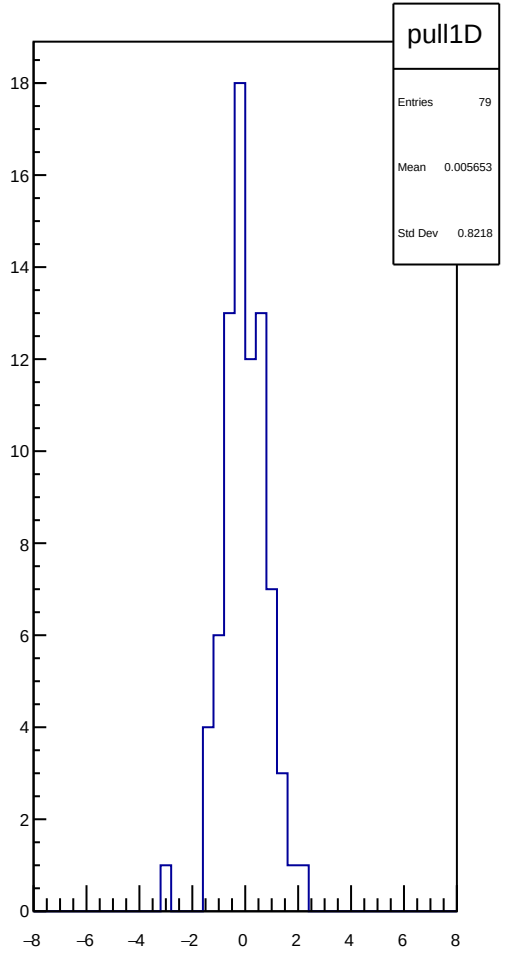

asym_bcm_dg_us_rms vs run
χ² / ndf 1.561e+04 / 78
p0 188.8 ± 0.1519
260
240
220
200
180
160

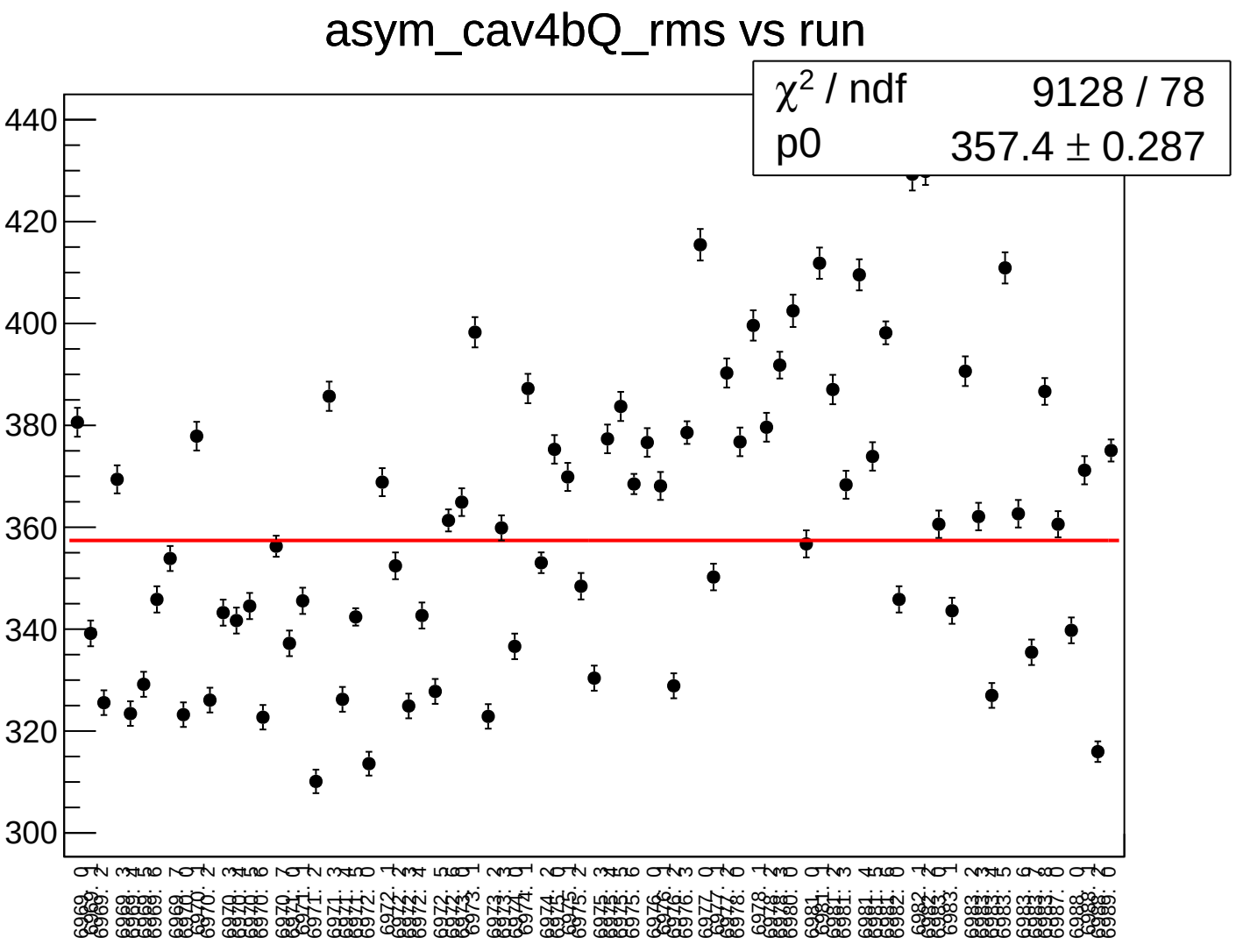

asym_bcm_dg_ds_mean vs run
χ² / ndf 17.67 / 78
p0 11.92 ± 214.2
4000
2000
0
−2000
−4000
pull
Entries 79
Mean 380
Std Dev 348.7
1.5
1
0.5
0
−0.5
−1
−1.5

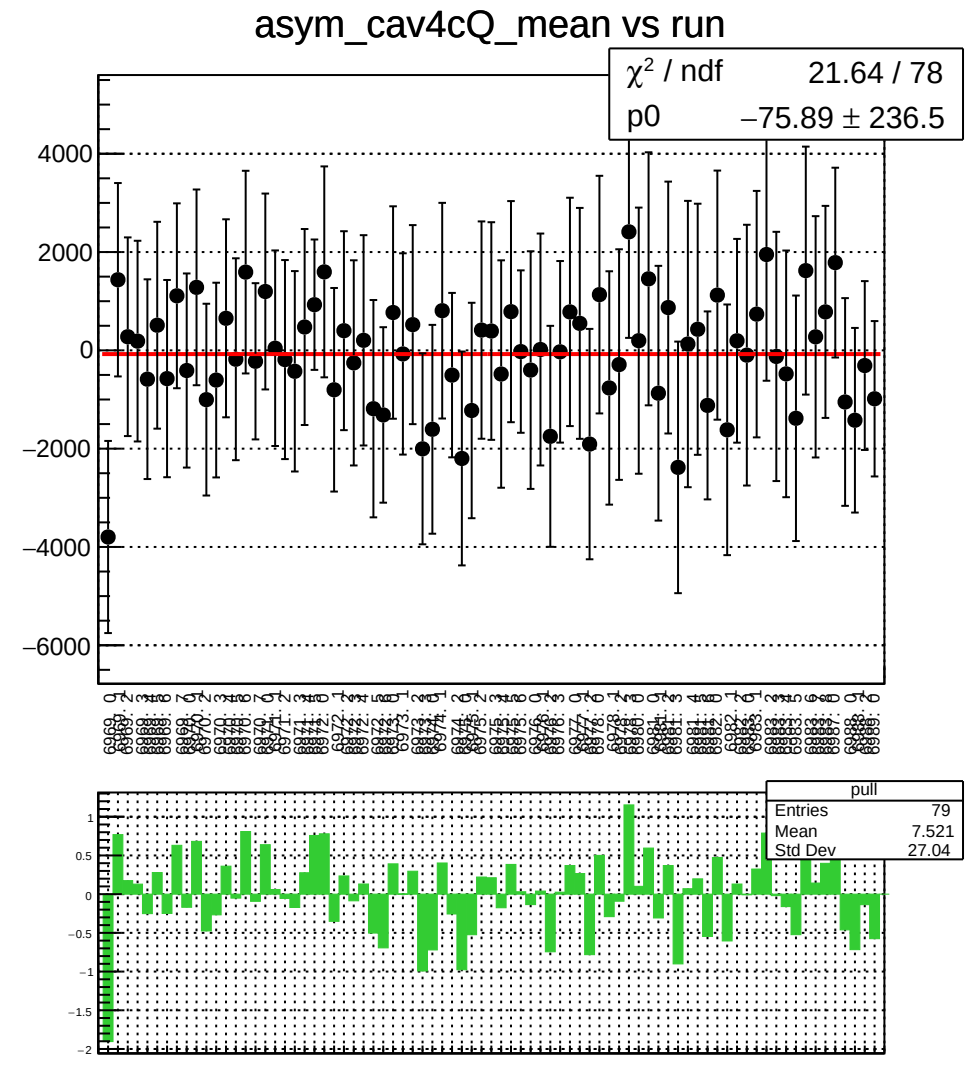

pull1D
Entries 79
Mean 0.001825
Std Dev 0.4729
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

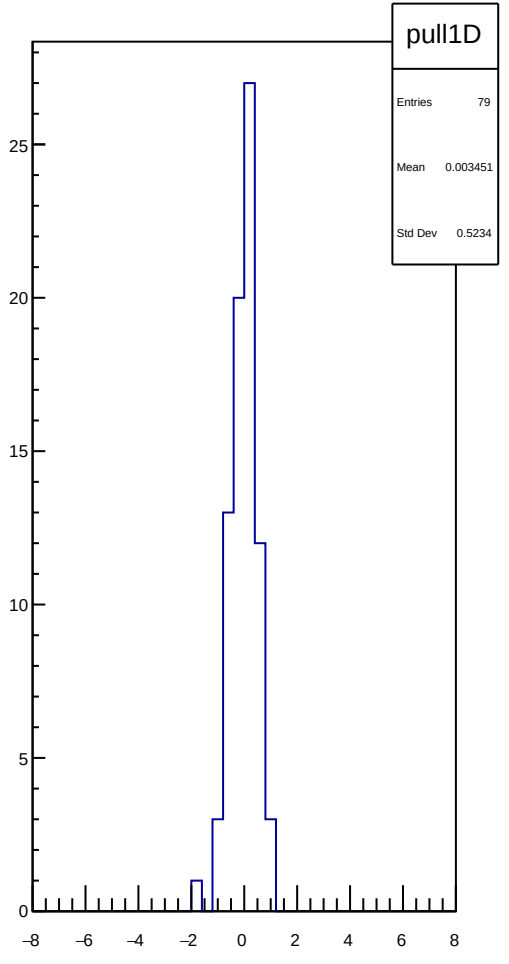

asym_bcm_dg_ds_rms vs run
χ² / ndf 1.617e+04 / 78
p0 188.2 ± 0.1515
260
240
220
200
180
160

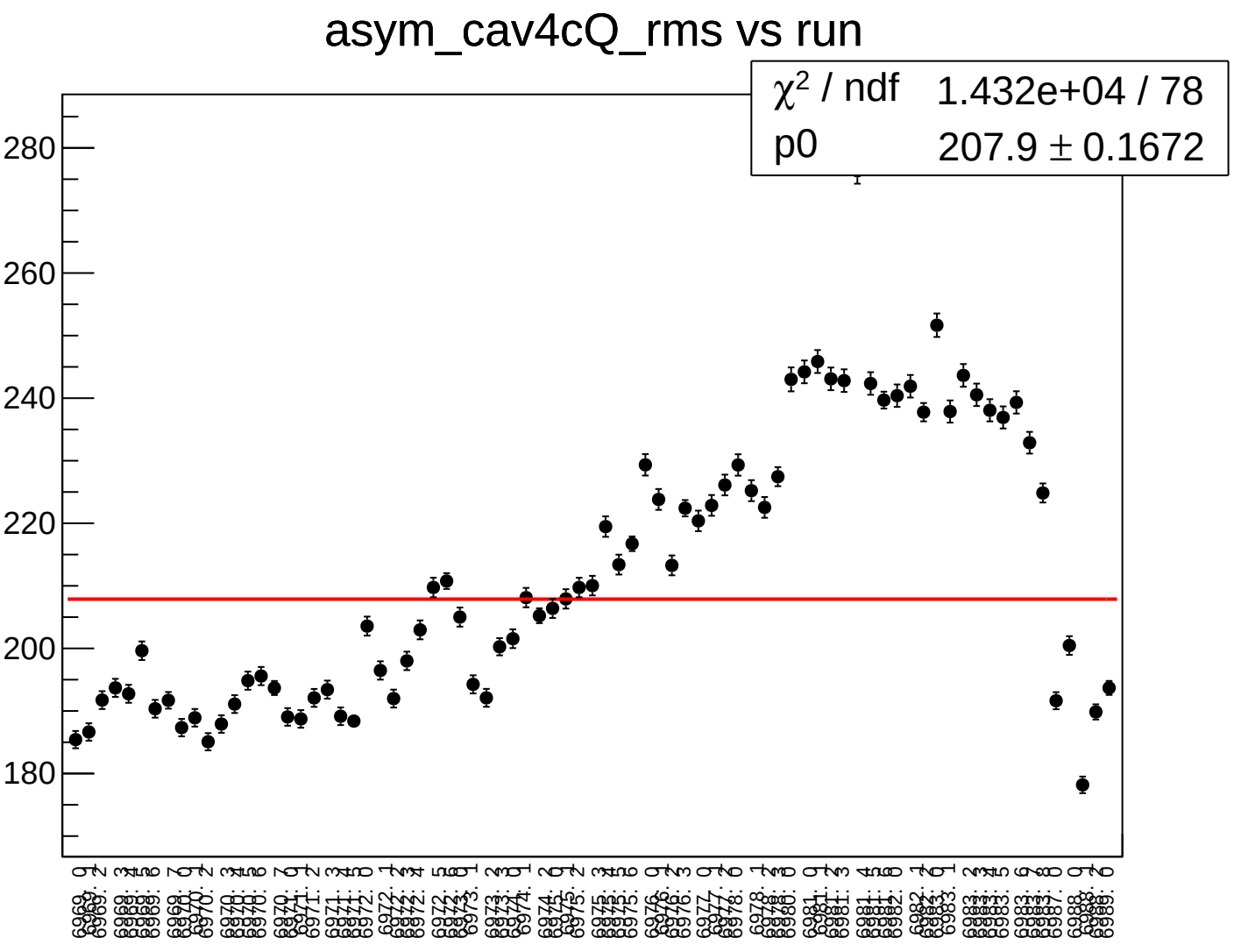

asym_cav4bQ_mean vs run
χ² / ndf 53.36 / 78
p0 198.7 ± 405.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean −833.6
Std Dev 880.1
2
1
0
−1
−2
−3

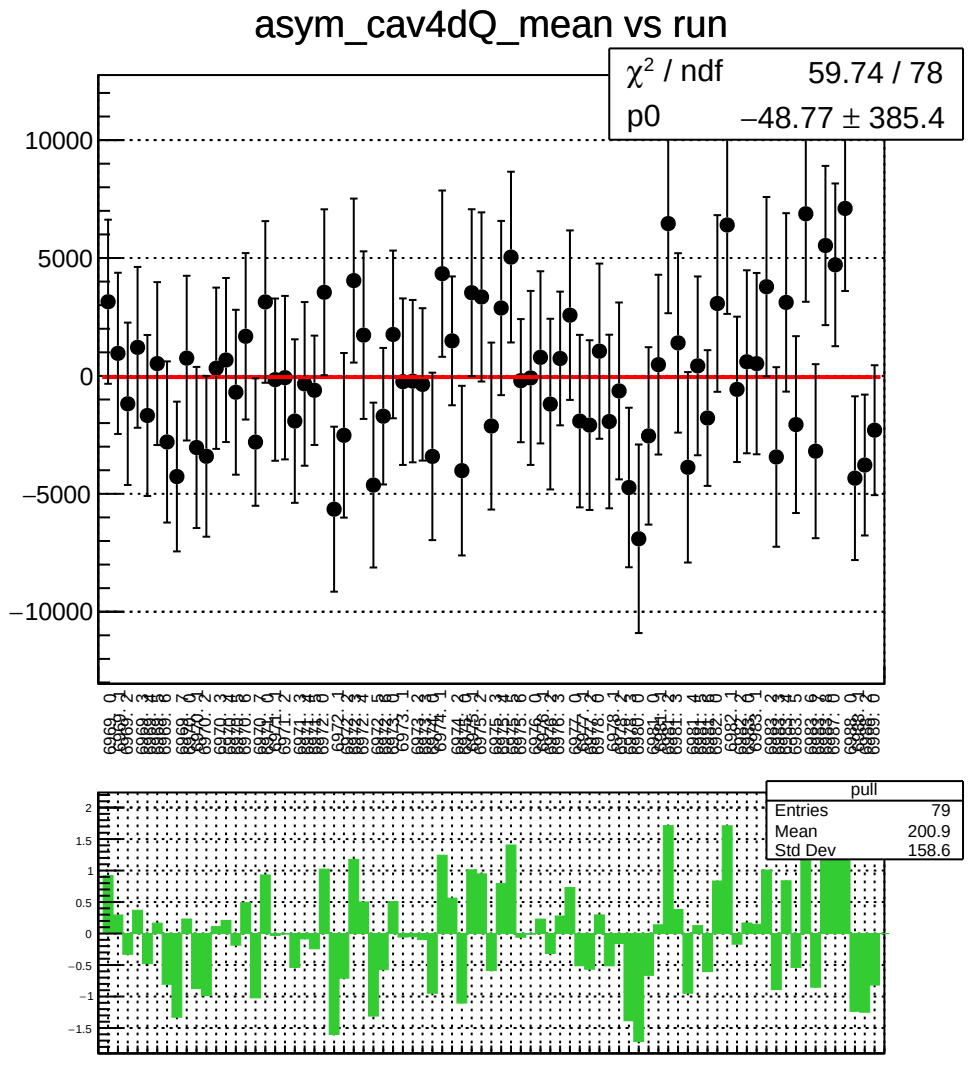

pull1D
Entries 79
Mean 0.005653
Std Dev 0.8218
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

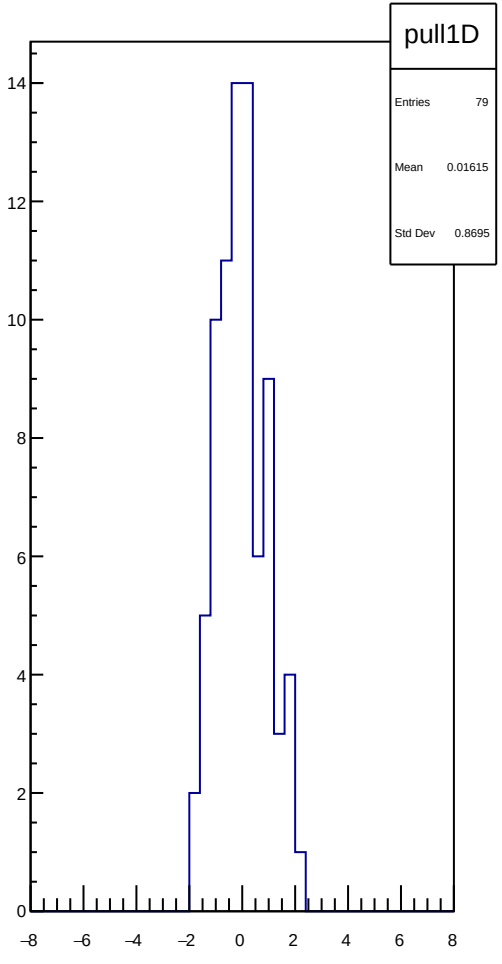

asym_cav4bQ_rms vs run
χ^2 / ndf 9128 / 78
p0 357.4 ± 0.287
440
420
400
380
360
340
320
300

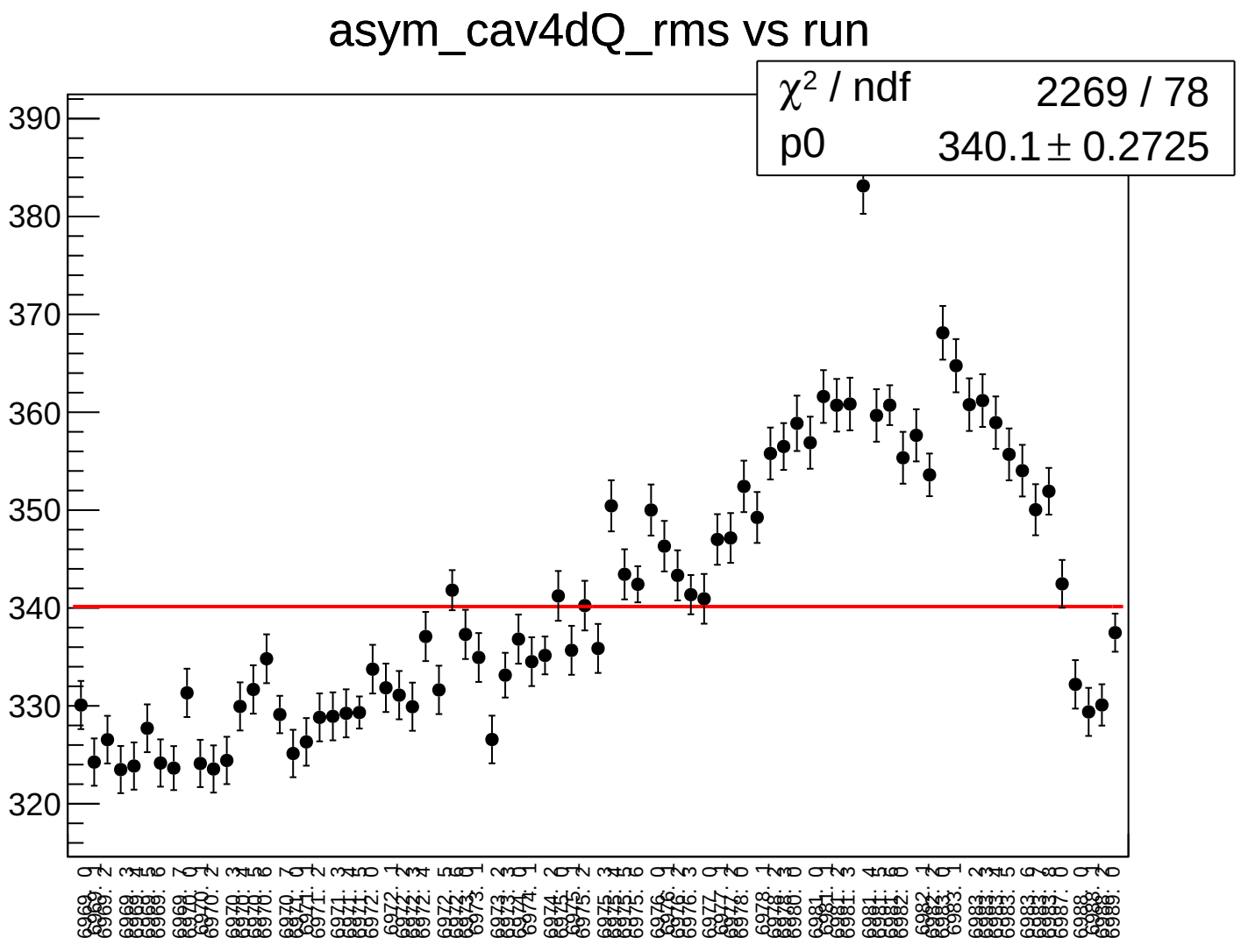

asym_cav4cQ_mean vs run
χ² / ndf 21.64 / 78
p0 −75.89 ± 236.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 79
Mean 7.521
Std Dev 27.04
1
0.5
0
−0.5
−1
−1.5
−2

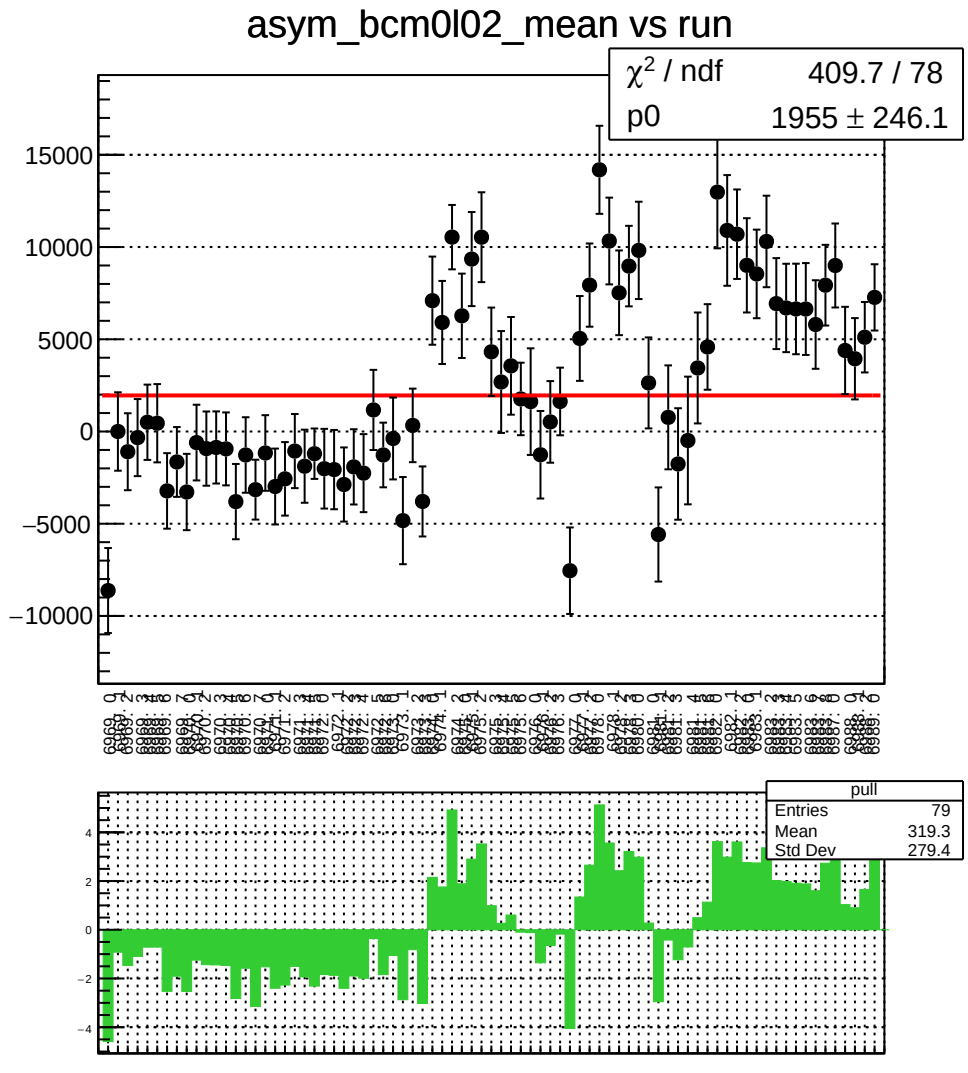

pull1D
Entries 79
Mean 0.003451
Std Dev 0.5234
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

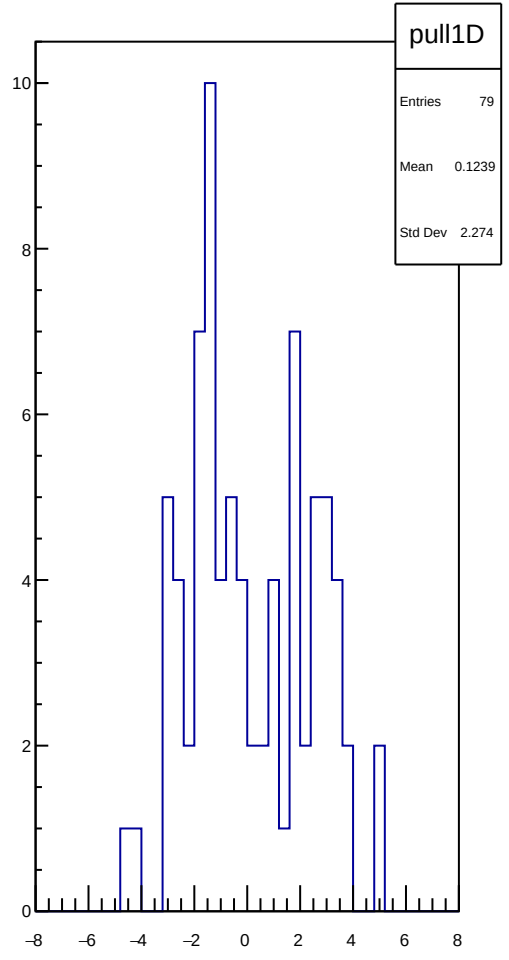

asym_cav4cQ_rms vs run
χ² / ndf 1.432e+04 / 78
p0 207.9 ± 0.1672
280
260
240
220
200
180

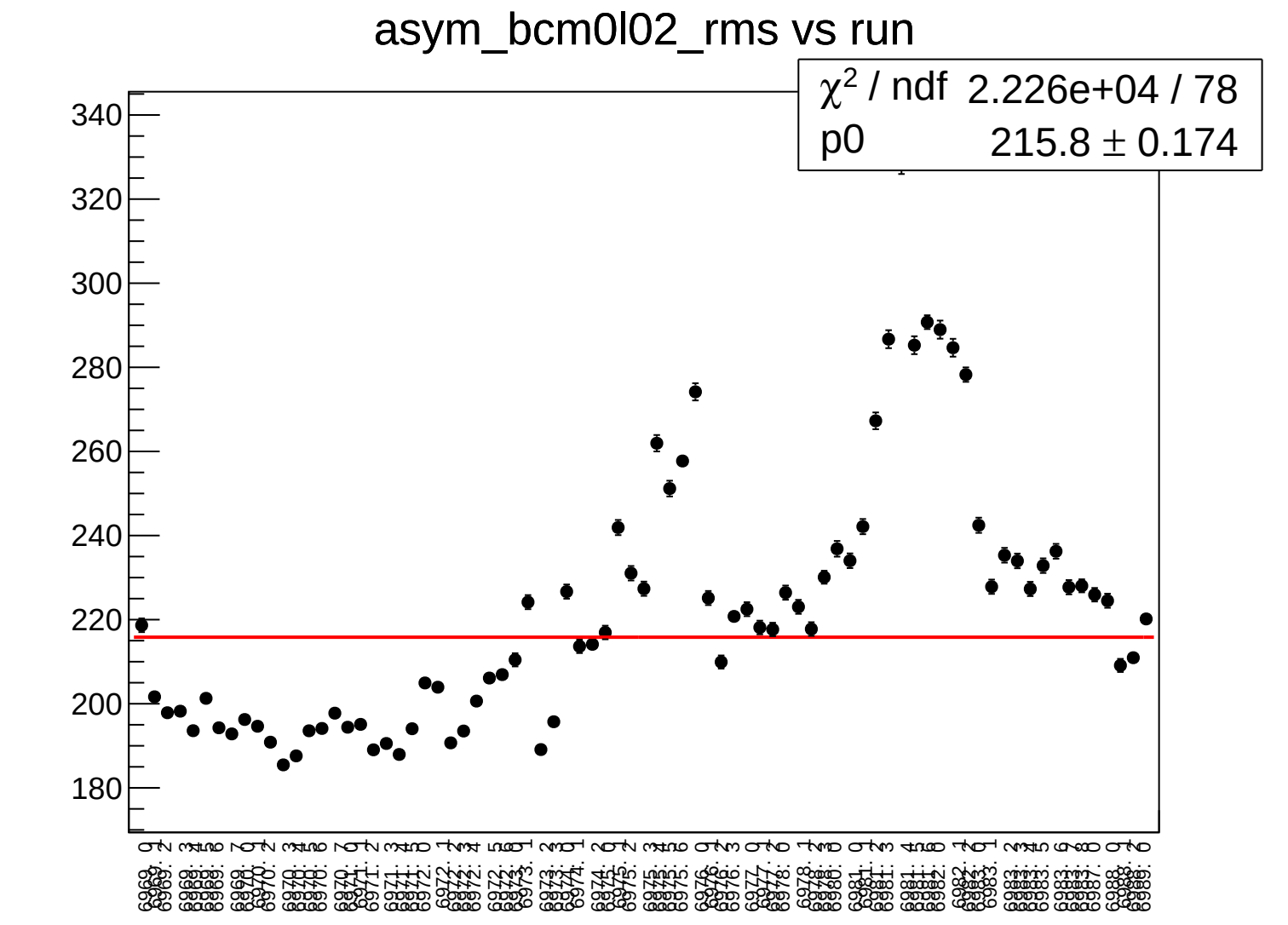

asym_cav4dQ_mean vs run
χ² / ndf 59.74 / 78
p0 −48.77 ± 385.4
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 200.9
Std Dev 158.6
2
1.5
1
0.5
0
−0.5
−1
−1.5

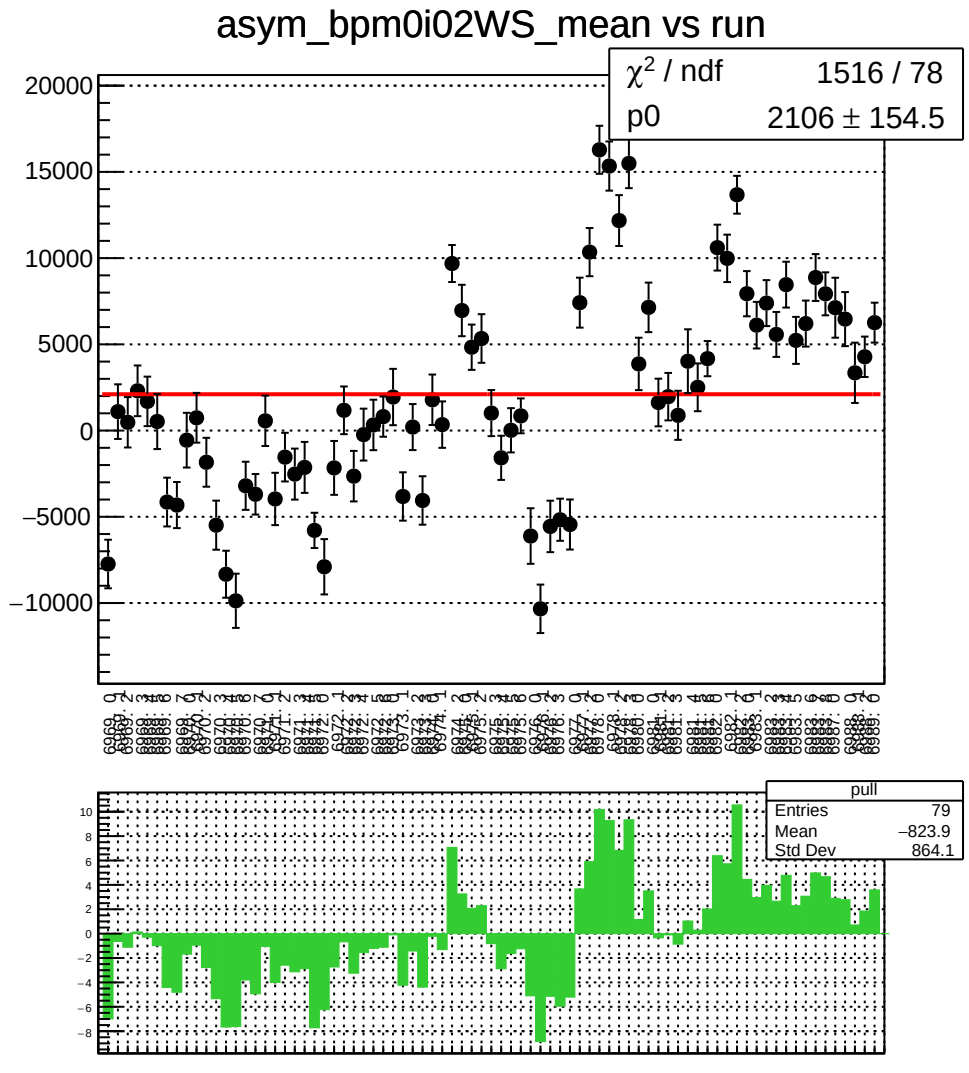

pull1D
Entries 79
Mean 0.01615
Std Dev 0.8695
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

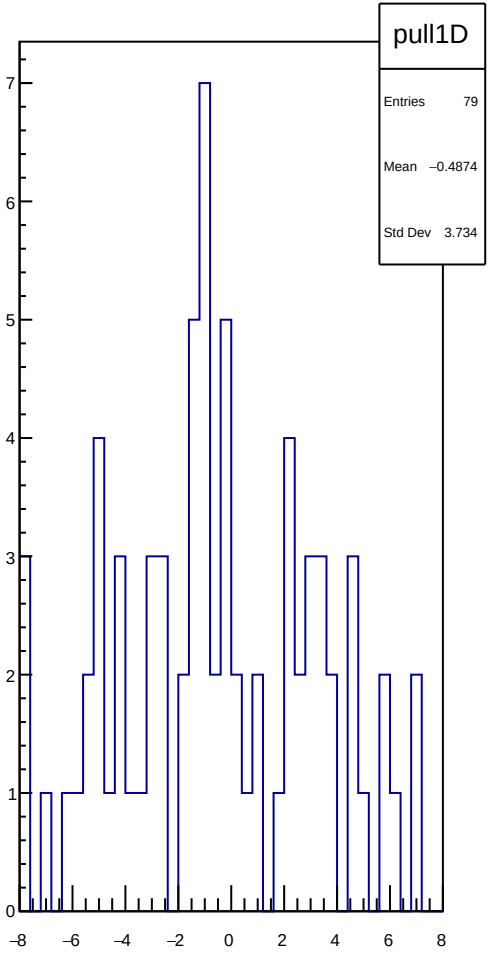

asym_cav4dQ_rms vs run
χ² / ndf 2269 / 78
p0 340.1 ± 0.2725
390
380
370
360
350
340
330
320

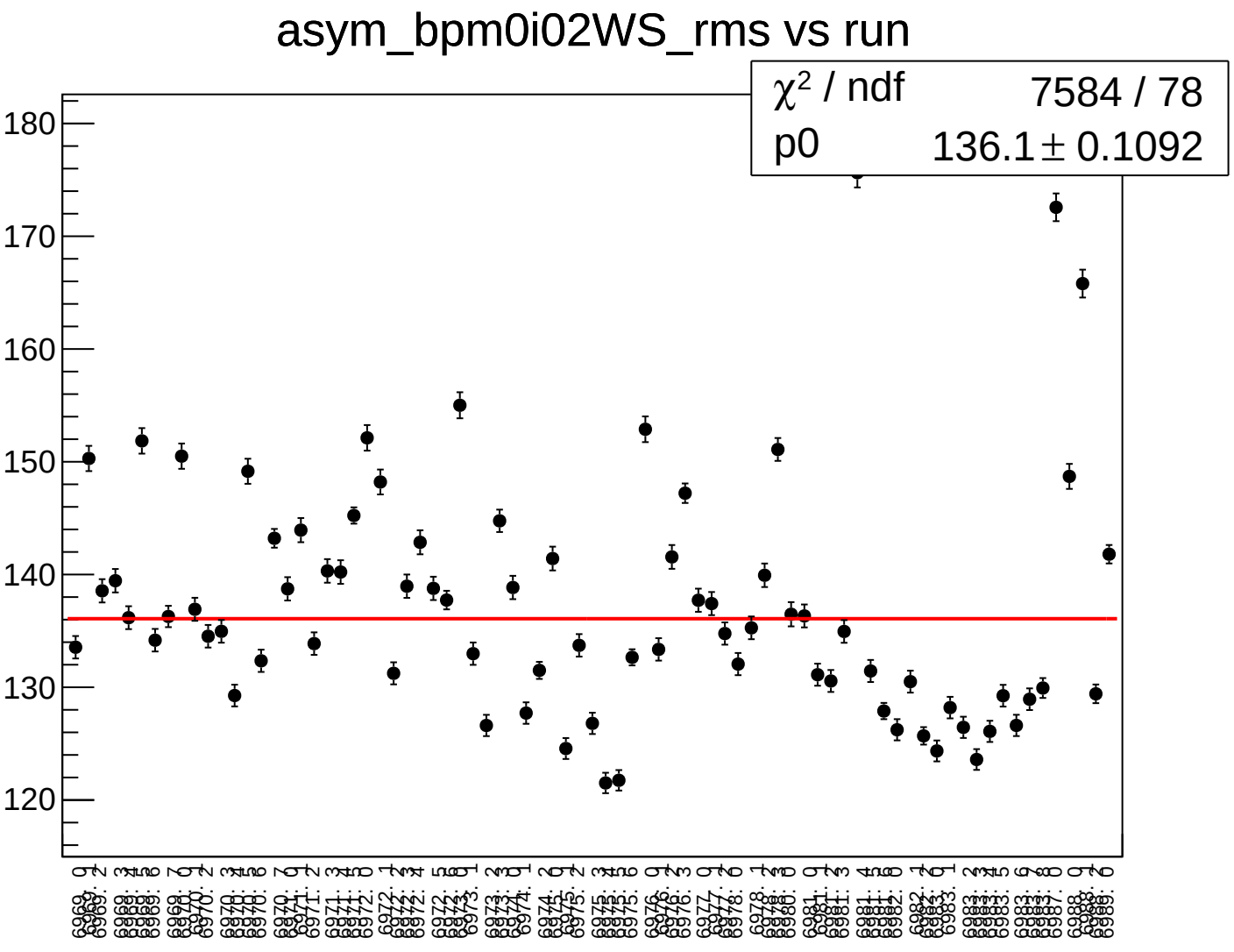

asym_bcm0l02_mean vs run
χ² / ndf 409.7 / 78
p0 1955 ± 246.1
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 319.3
Std Dev 279.4
4
2
0
−2
−4

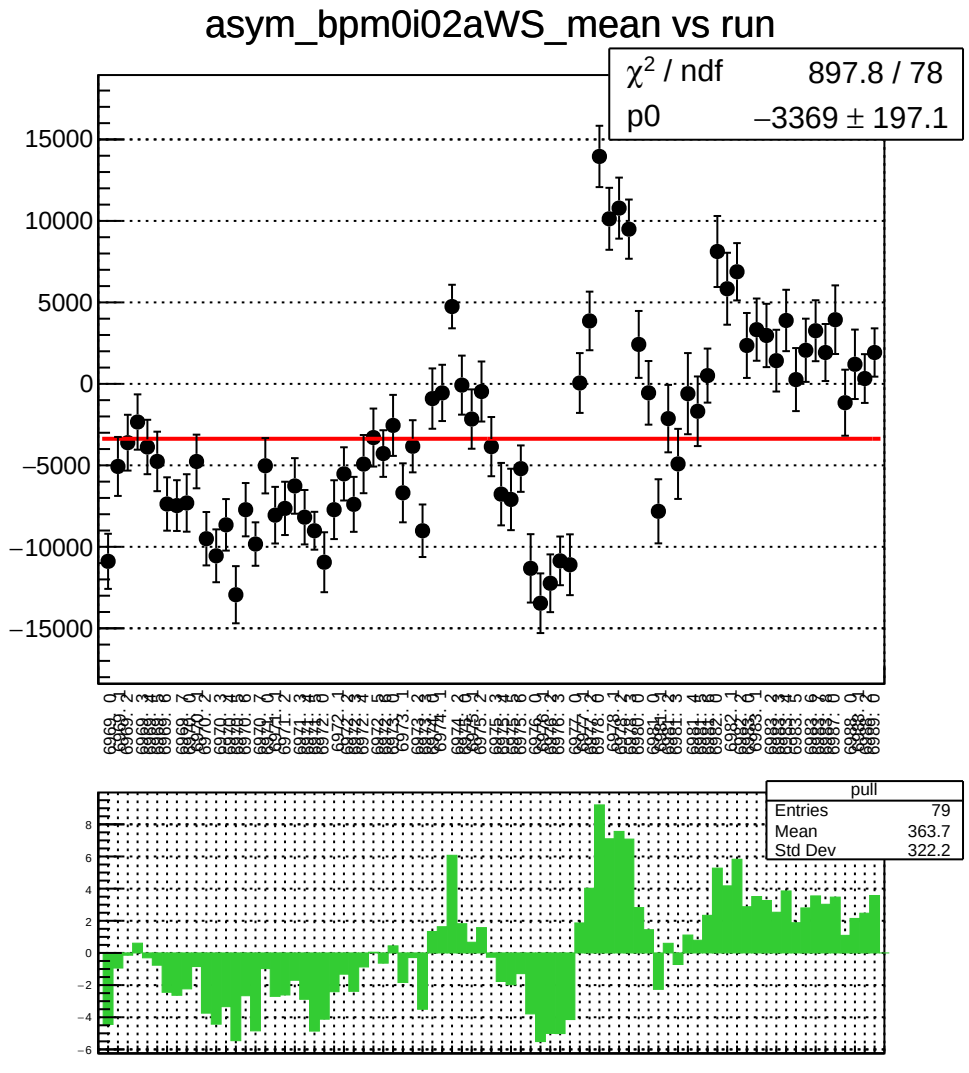

pull1D
Entries 79
Mean 0.1239
Std Dev 2.274
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

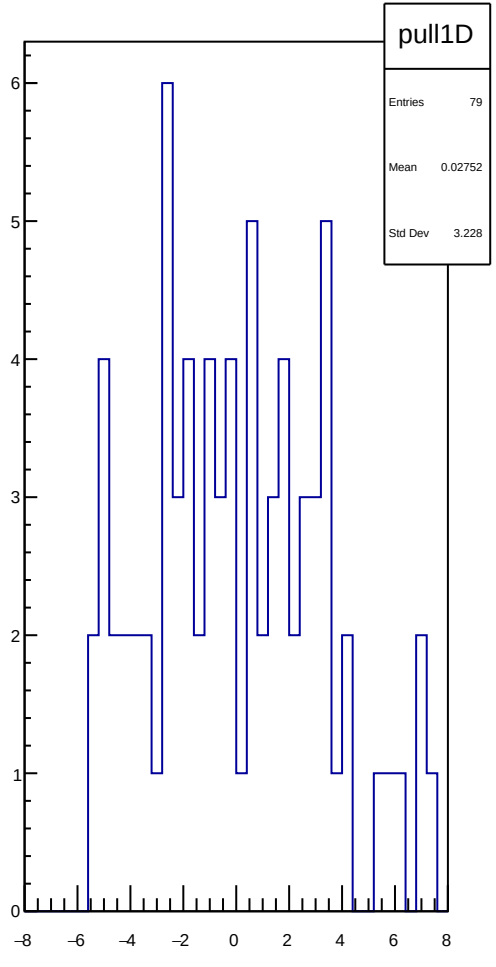

asym_bcm0l02_rms vs run
χ² / ndf 2.226e+04 / 78
p0 215.8 ± 0.174
340
320
300
280
260
240
220
200
180

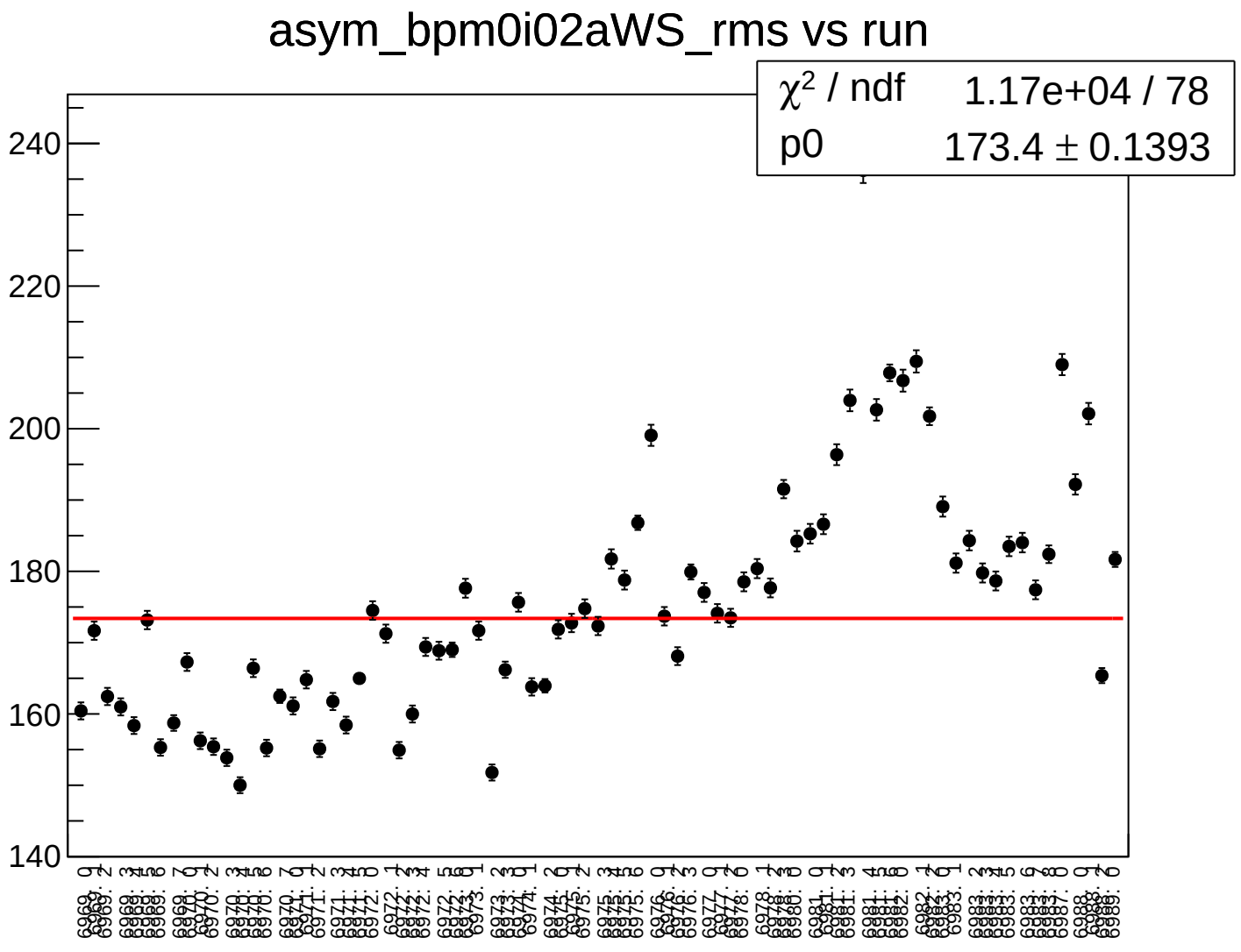

asym_bpm0i02WS_mean vs run
χ² / ndf 1516 / 78
p0 2106 ± 154.5
pull
Entries 79
Mean −823.9
Std Dev 864.1

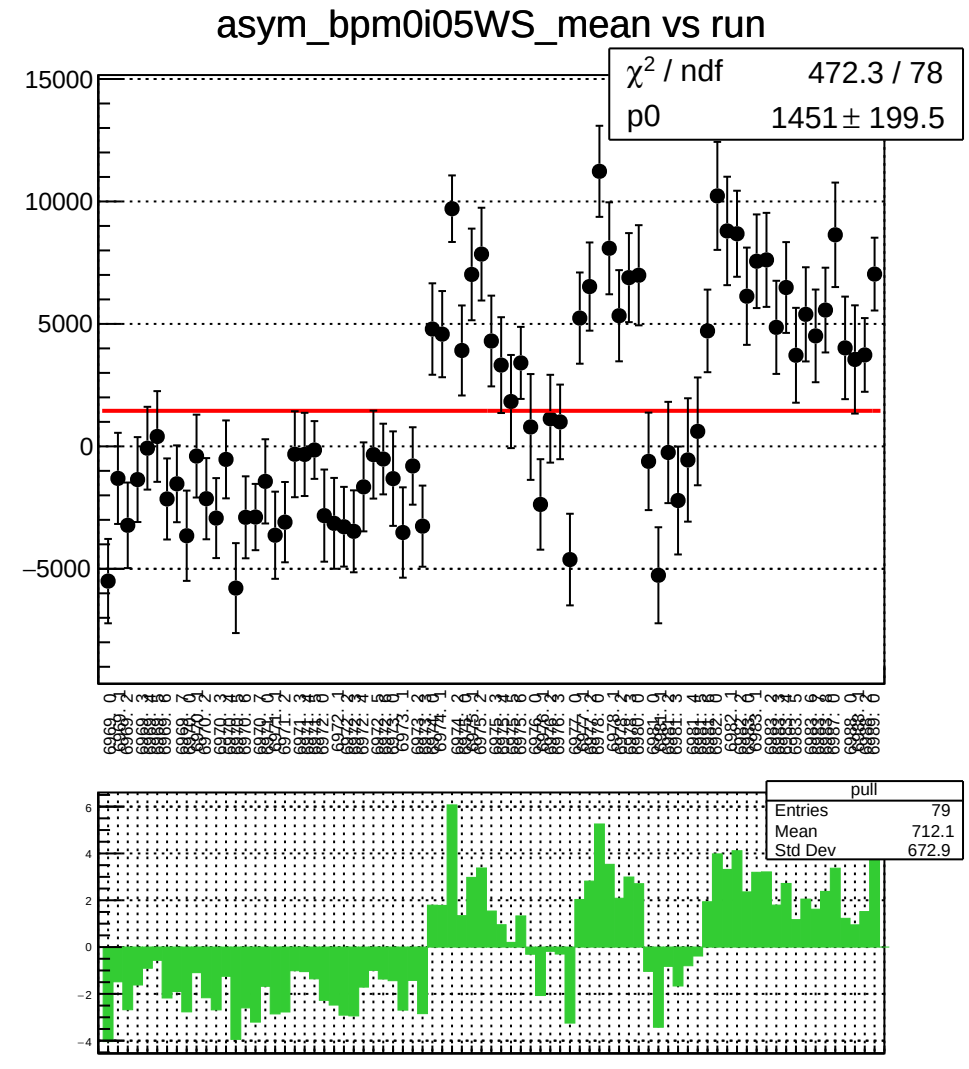

pull1D
Entries 79
Mean −0.4874
Std Dev 3.734

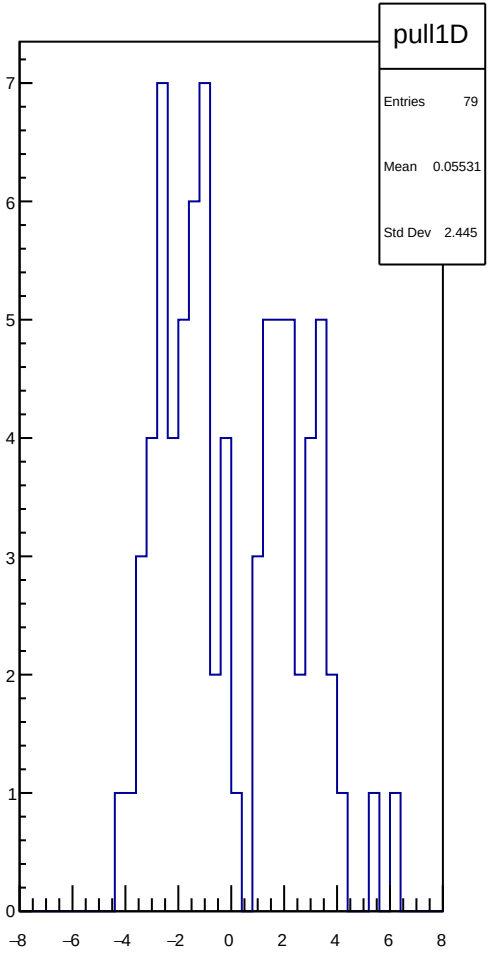

asym_bpm0i02WS_rms vs run
χ² / ndf 7584 / 78
p0 136.1 ± 0.1092
180
170
160
150
140
130
120

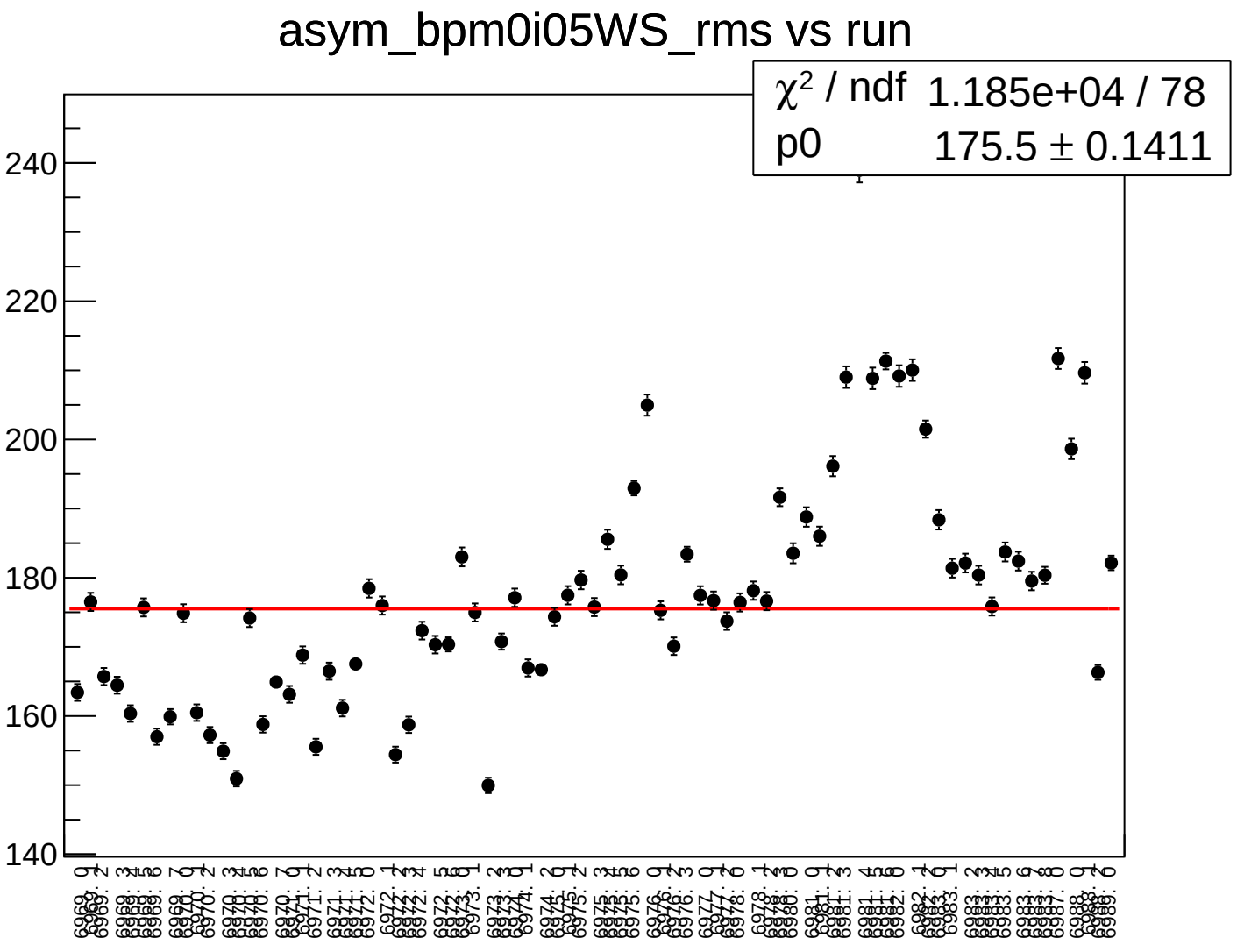

asym_bpm0i02aWS_mean vs run
χ² / ndf 897.8 / 78
p0 −3369 ± 197.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 363.7
Std Dev 322.2
8
6
4
2
0
−2
−4
−6

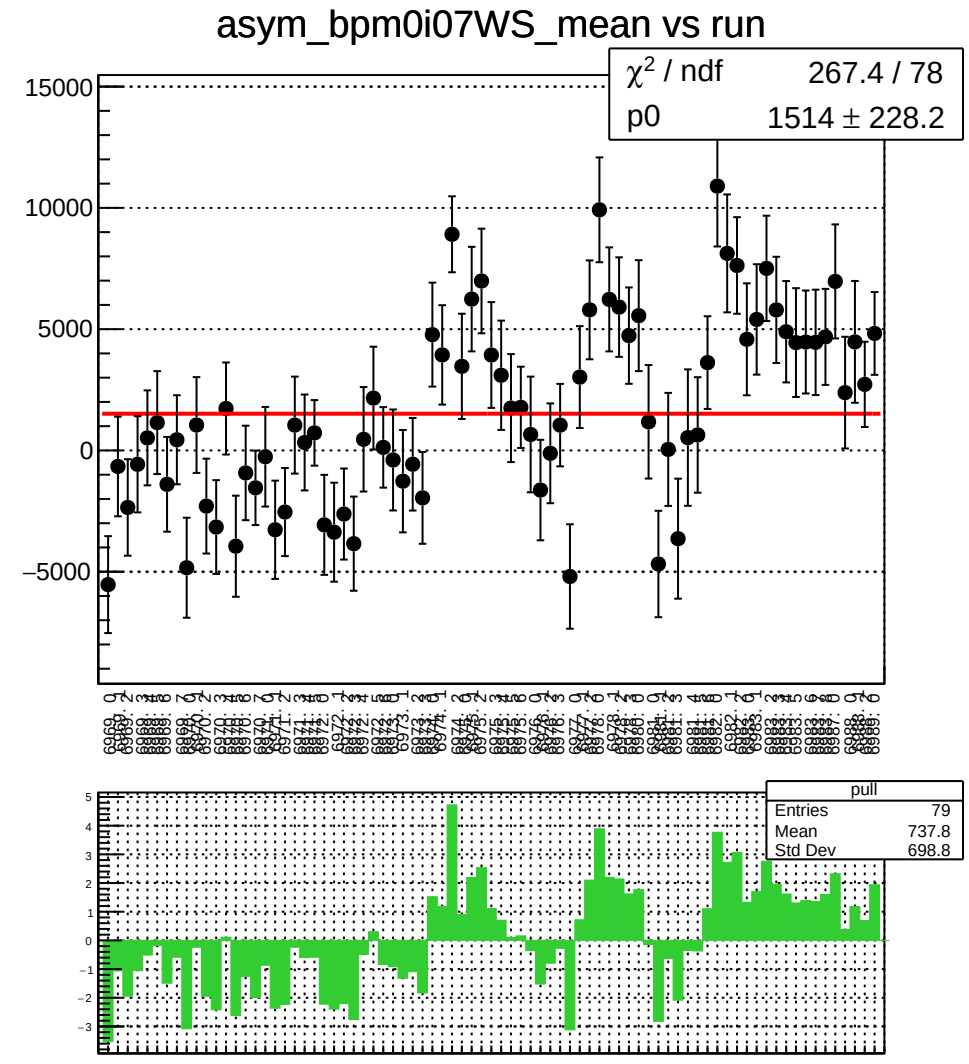

pull1D
Entries 79
Mean 0.02752
Std Dev 3.228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

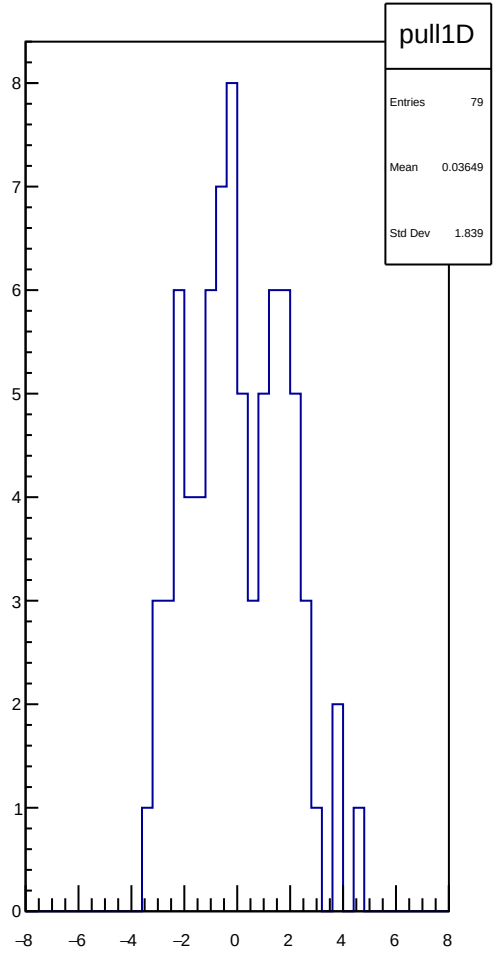

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.17e+04 / 78
p0 173.4 ± 0.1393
240
220
200
180
160
140

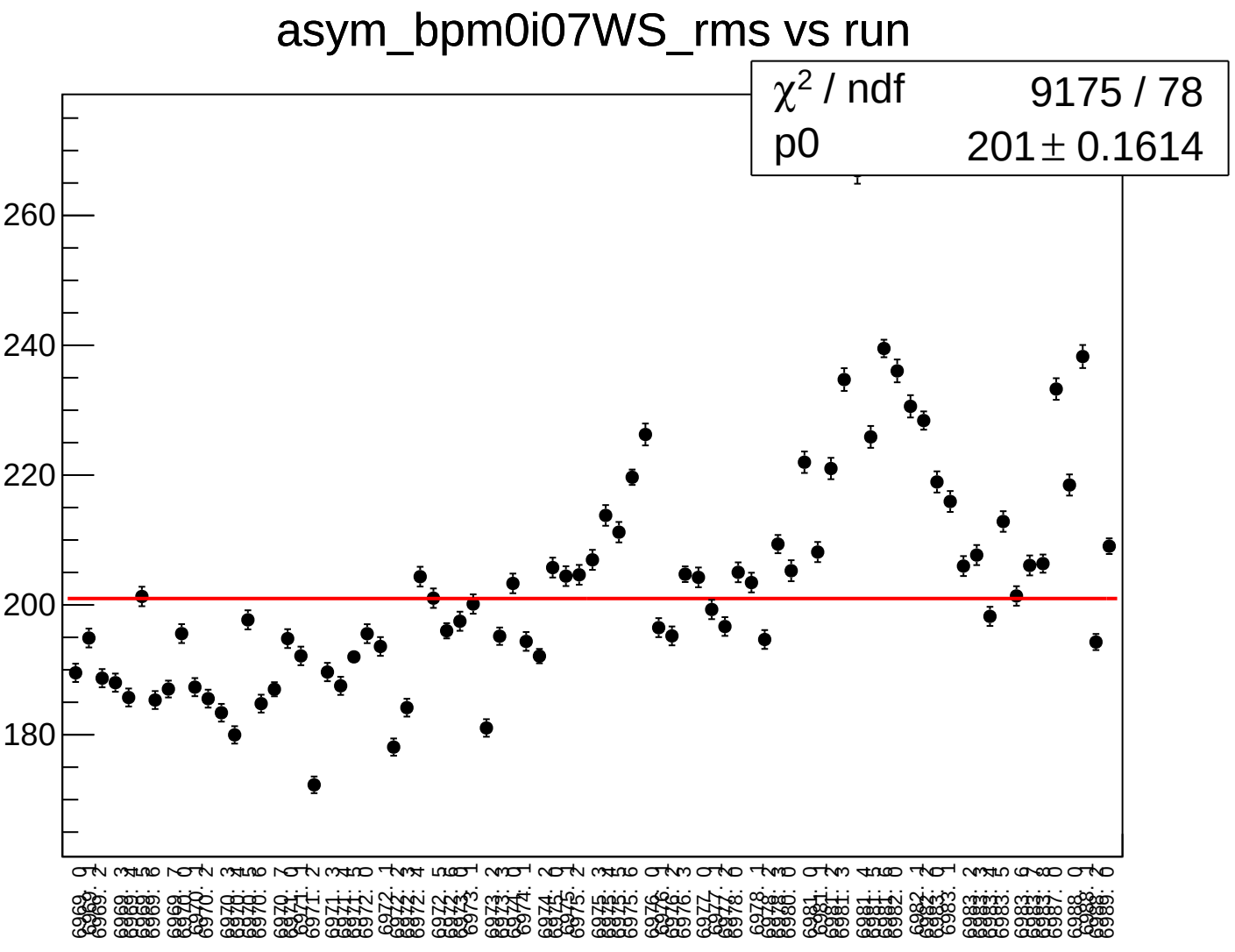

asym_bpm0i05WS_mean vs run
χ² / ndf 472.3 / 78
p0 1451 ± 199.5
15000
10000
5000
0
−5000
pull
Entries 79
Mean 712.1
Std Dev 672.9
6
4
2
0
−2
−4

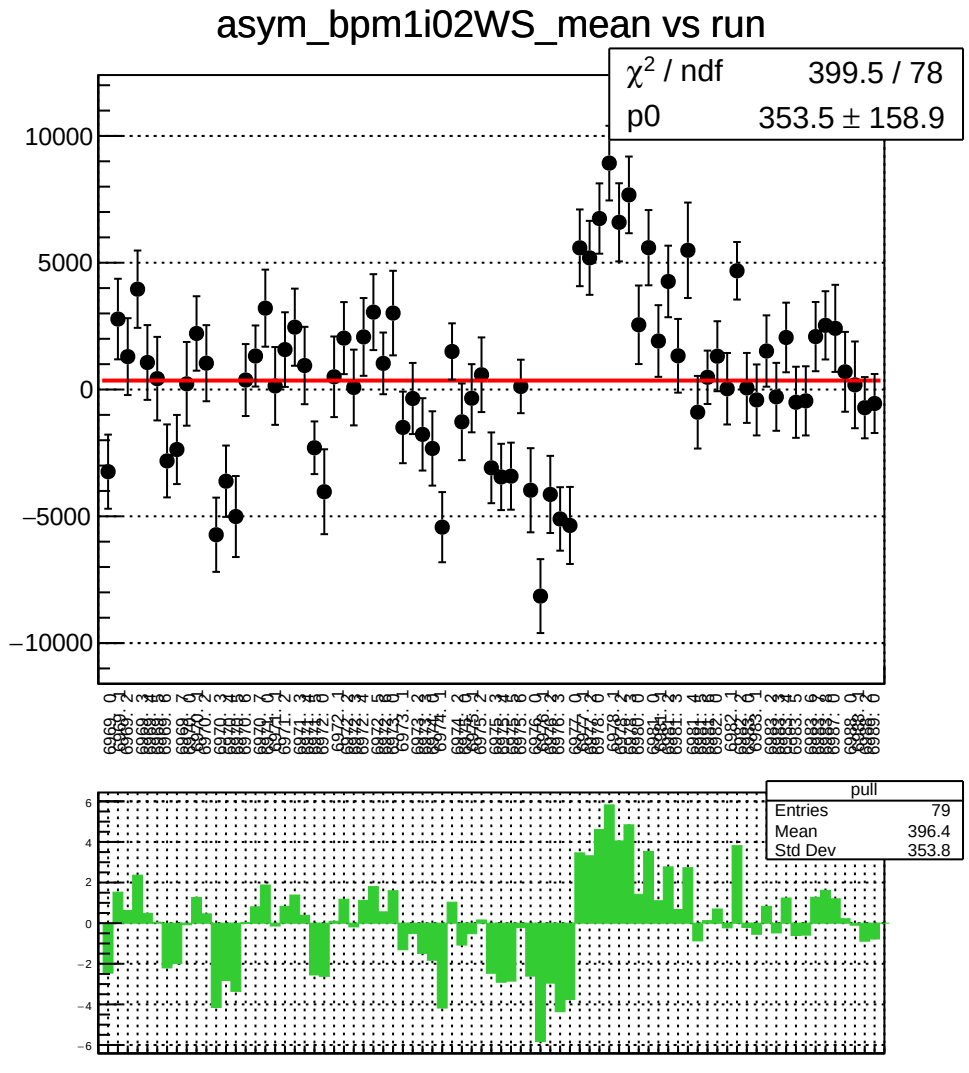

pull1D
Entries 79
Mean 0.05531
Std Dev 2.445
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

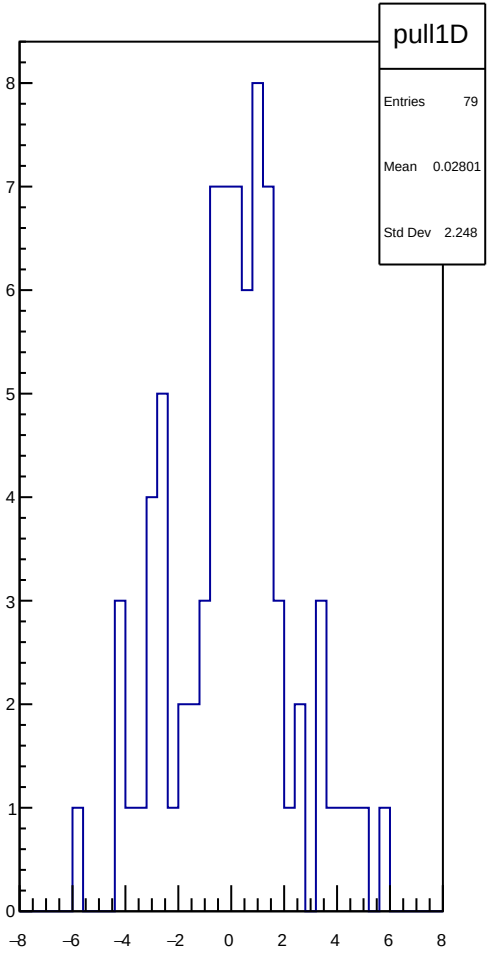

asym_bpm0i05WS_rms vs run
χ² / ndf 1.185e+04 / 78
p0 175.5 ± 0.1411
240
220
200
180
160
140

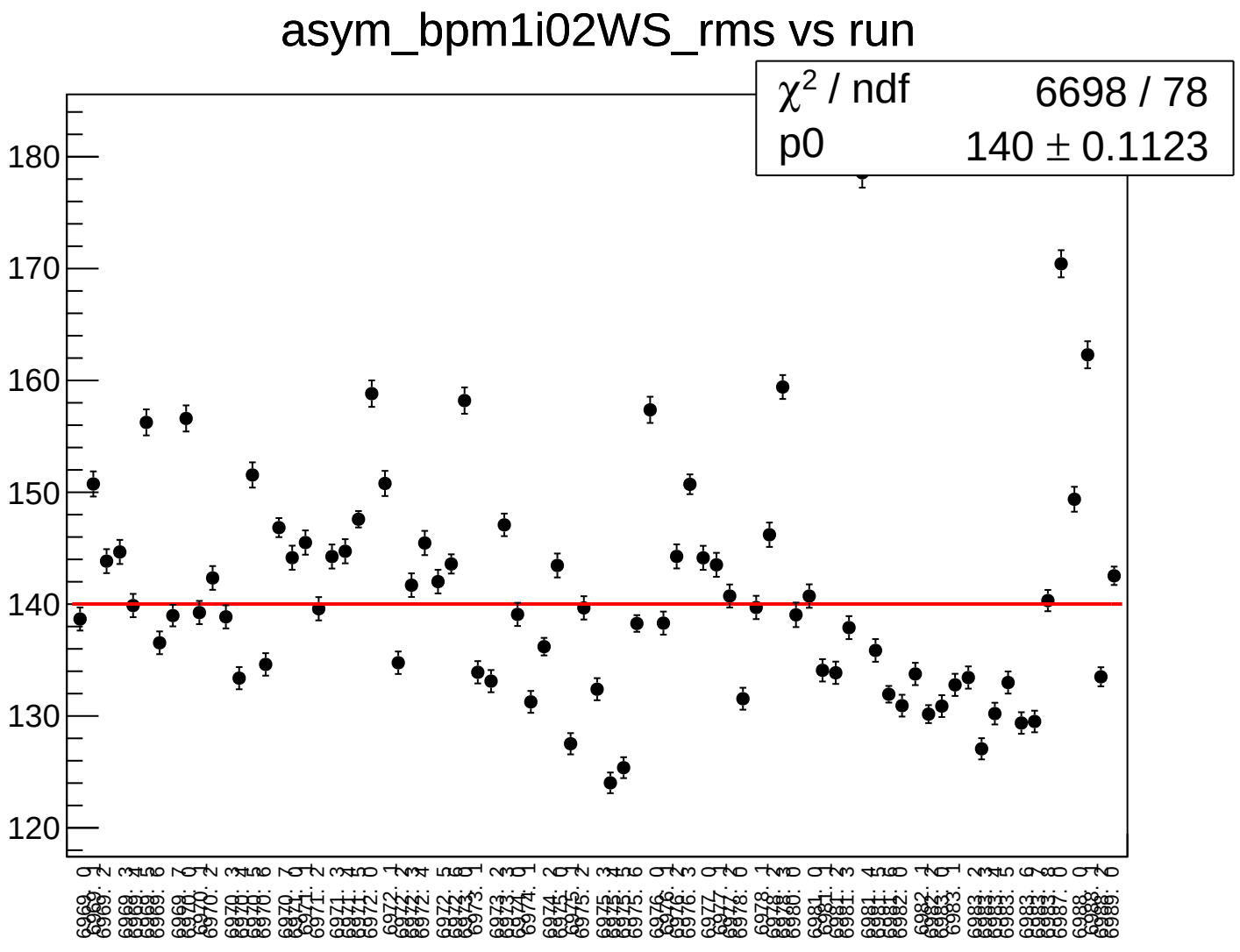

asym_bpm0i07WS_mean vs run
χ² / ndf 267.4 / 78
p0 1514 ± 228.2
15000
10000
5000
0
−5000
pull
Entries 79
Mean 737.8
Std Dev 698.8

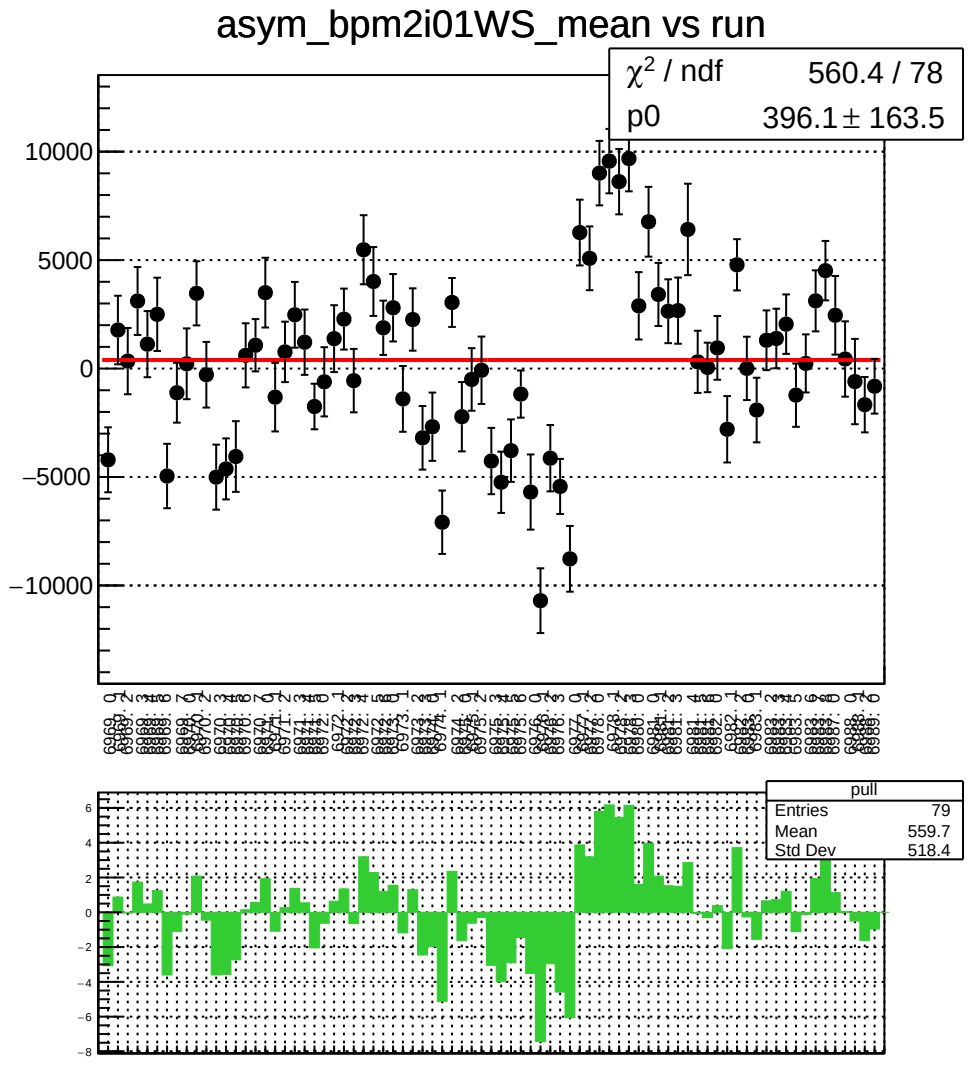

pull1D
Entries 79
Mean 0.03649
Std Dev 1.839

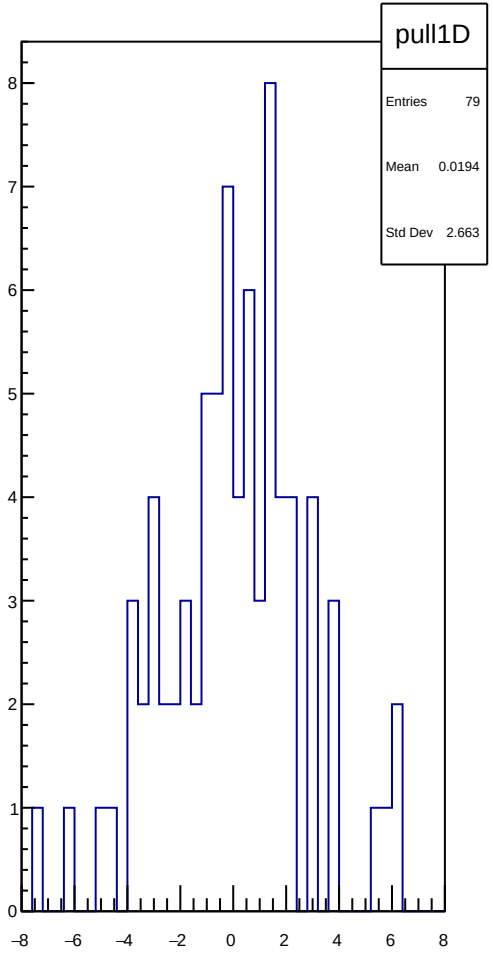

asym_bpm0i07WS_rms vs run
χ² / ndf 9175 / 78
p0 201 ± 0.1614
260
240
220
200
180


asym_bpm1i02WS_mean vs run
χ² / ndf 399.5 / 78
p0 353.5 ± 158.9
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 396.4
Std Dev 353.8
6
4
2
0
−2
−4
−6


pull1D
Entries 79
Mean 0.02801
Std Dev 2.248
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8


asym_bpm1i02WS_rms vs run
χ^2 / ndf 6698 / 78
p0 140 ± 0.1123
180
170
160
150
140
130
120


asym_bpm2i01WS_mean vs run
χ² / ndf 560.4 / 78
p0 396.1 ± 163.5
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 559.7
Std Dev 518.4
6
4
2
0
−2
−4
−6
−8


pull1D
Entries 79
Mean 0.0194
Std Dev 2.663
8
7
6
5
4
3
2
1
0
−8
−6
−4
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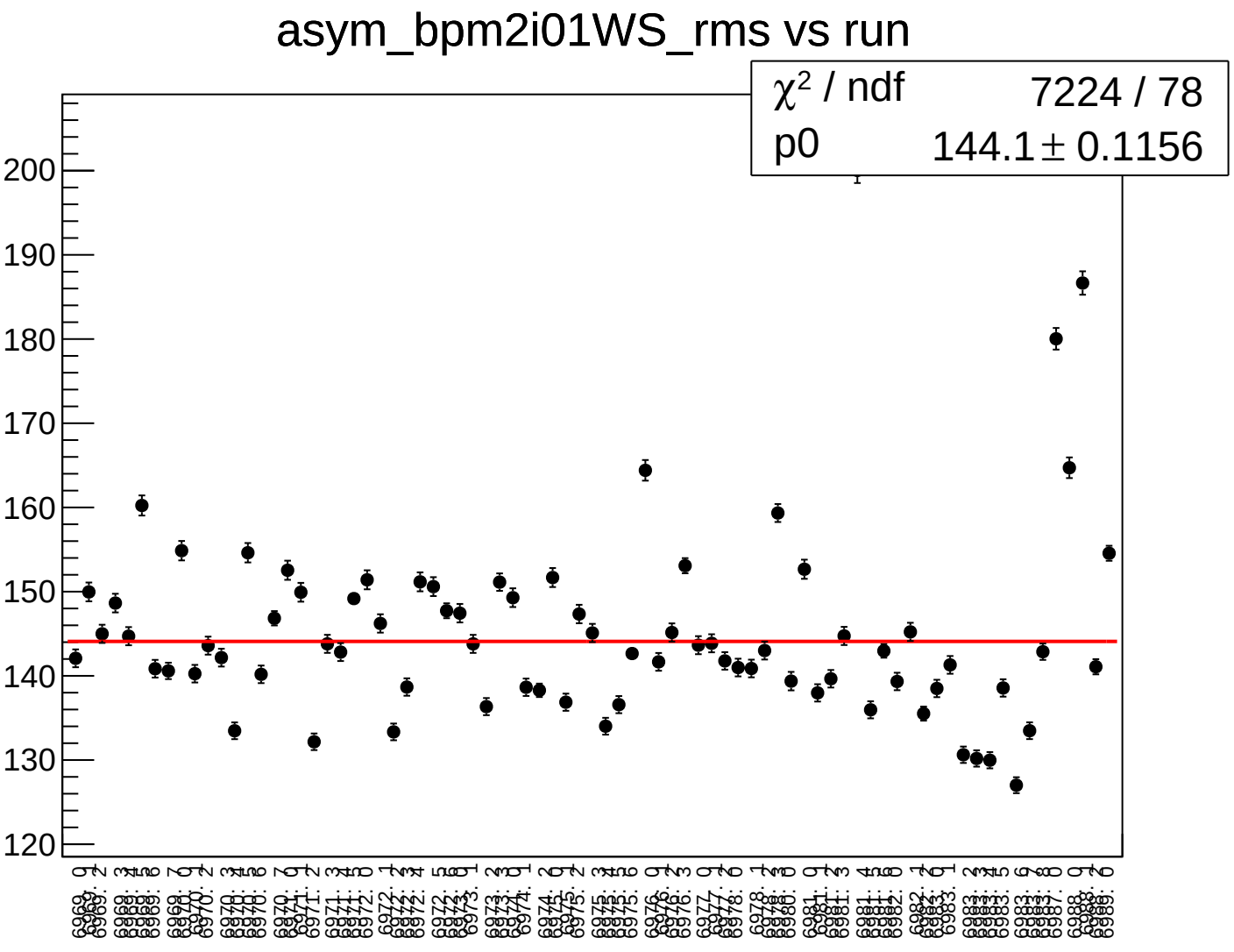
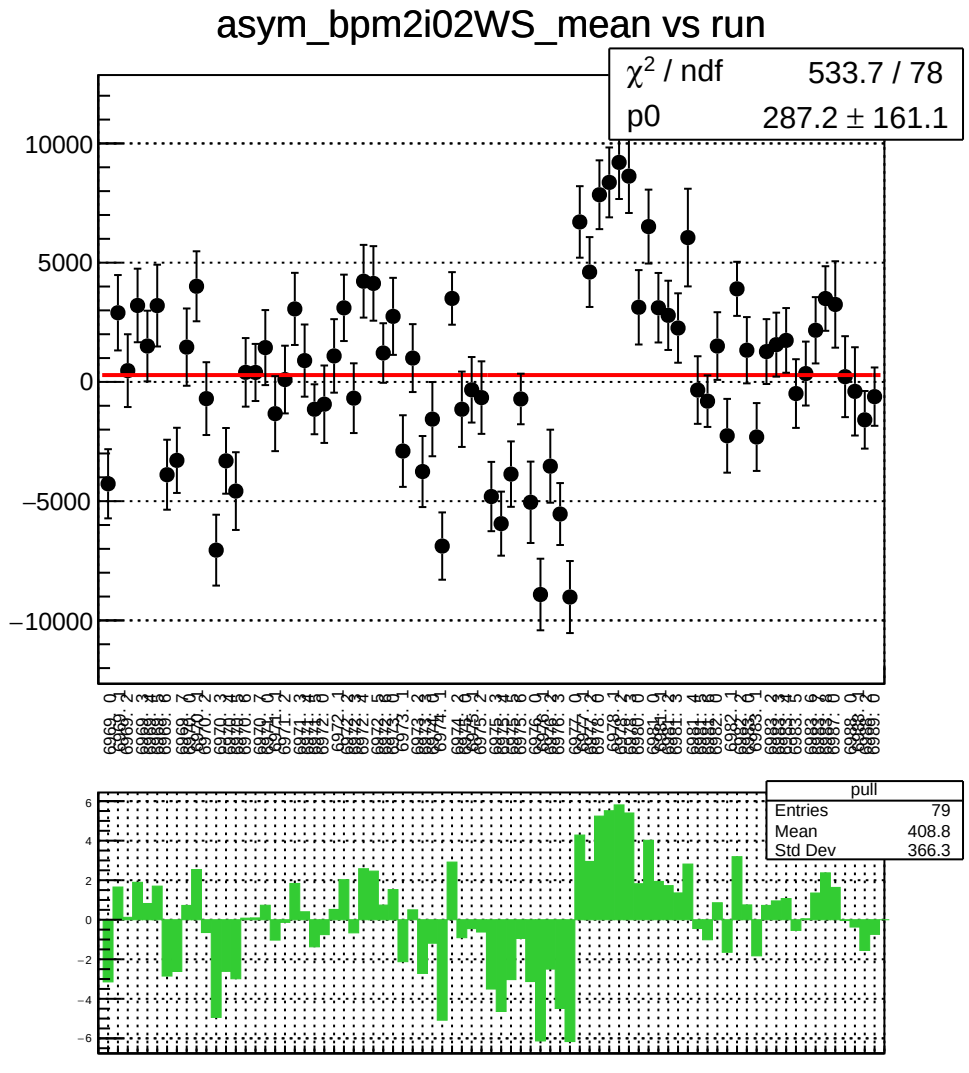
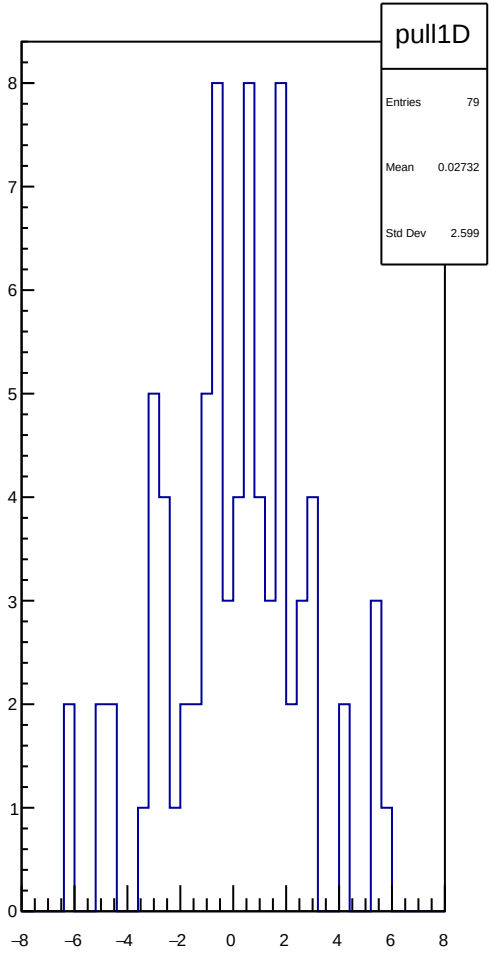
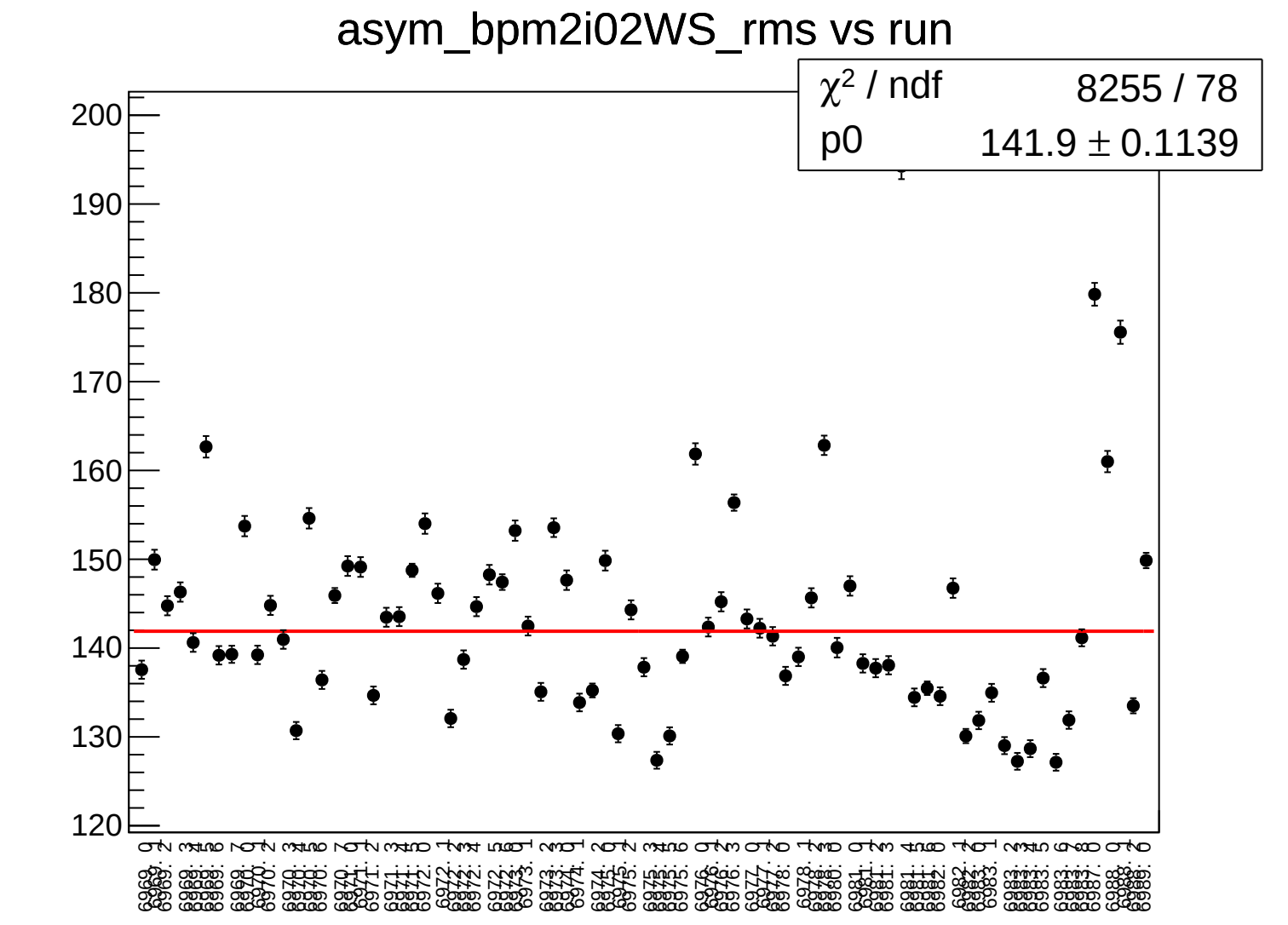
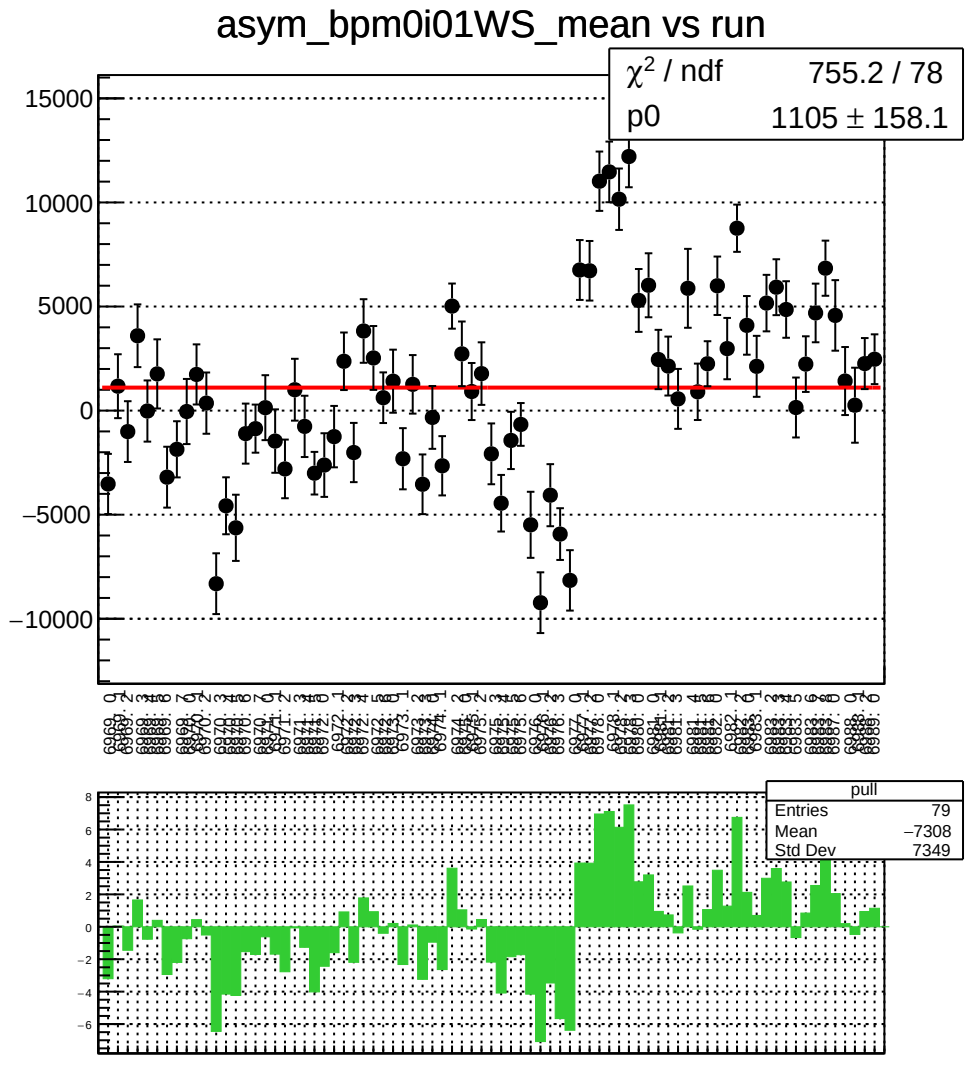
0
2
4
6
8

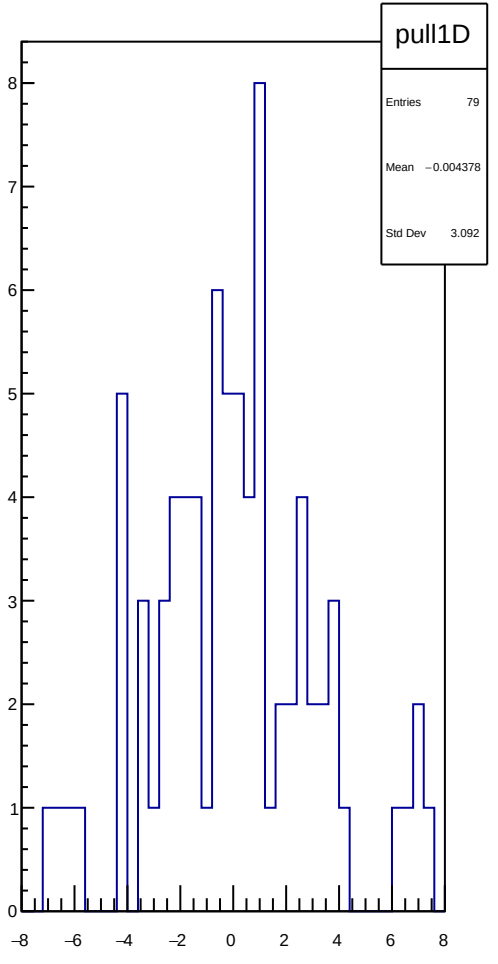

asym_bpm2i01WS_rms vs run
χ² / ndf 7224 / 78
p0 144.1 ± 0.1156
200
190
180
170
160
150
140
130
120

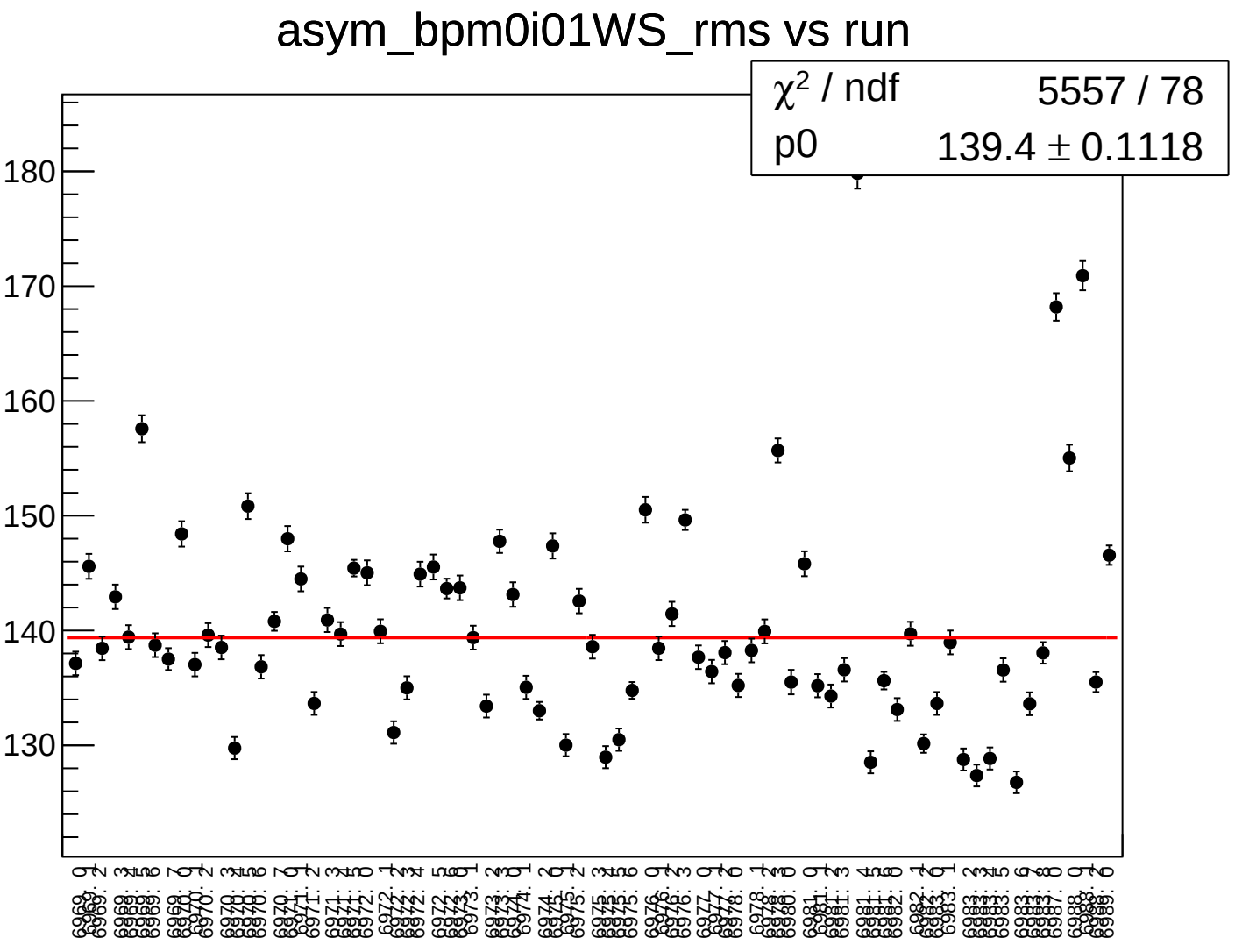

asym_bpm2i02WS_mean vs run
χ² / ndf 533.7 / 78
p0 287.2 ± 161.1
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 408.8
Std Dev 366.3
6
4
2
0
−2
−4
−6

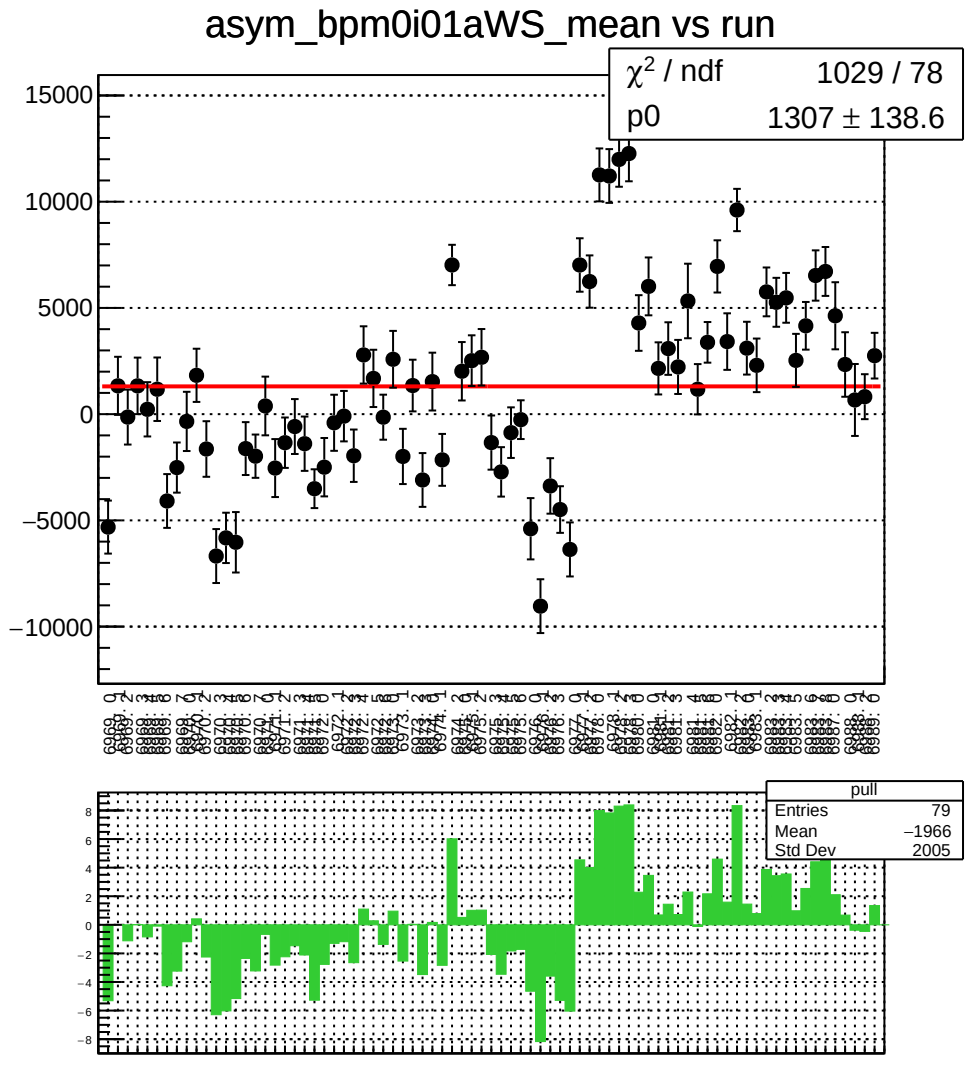

pull1D
Entries 79
Mean 0.02732
Std Dev 2.599
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

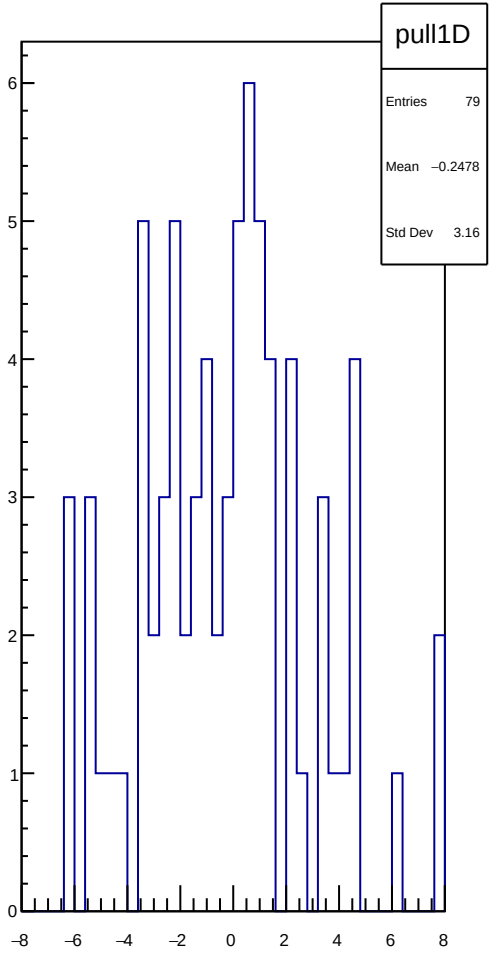

asym_bpm2i02WS_rms vs run
χ² / ndf 8255 / 78
p0 141.9 ± 0.1139
200
190
180
170
160
150
140
130
120

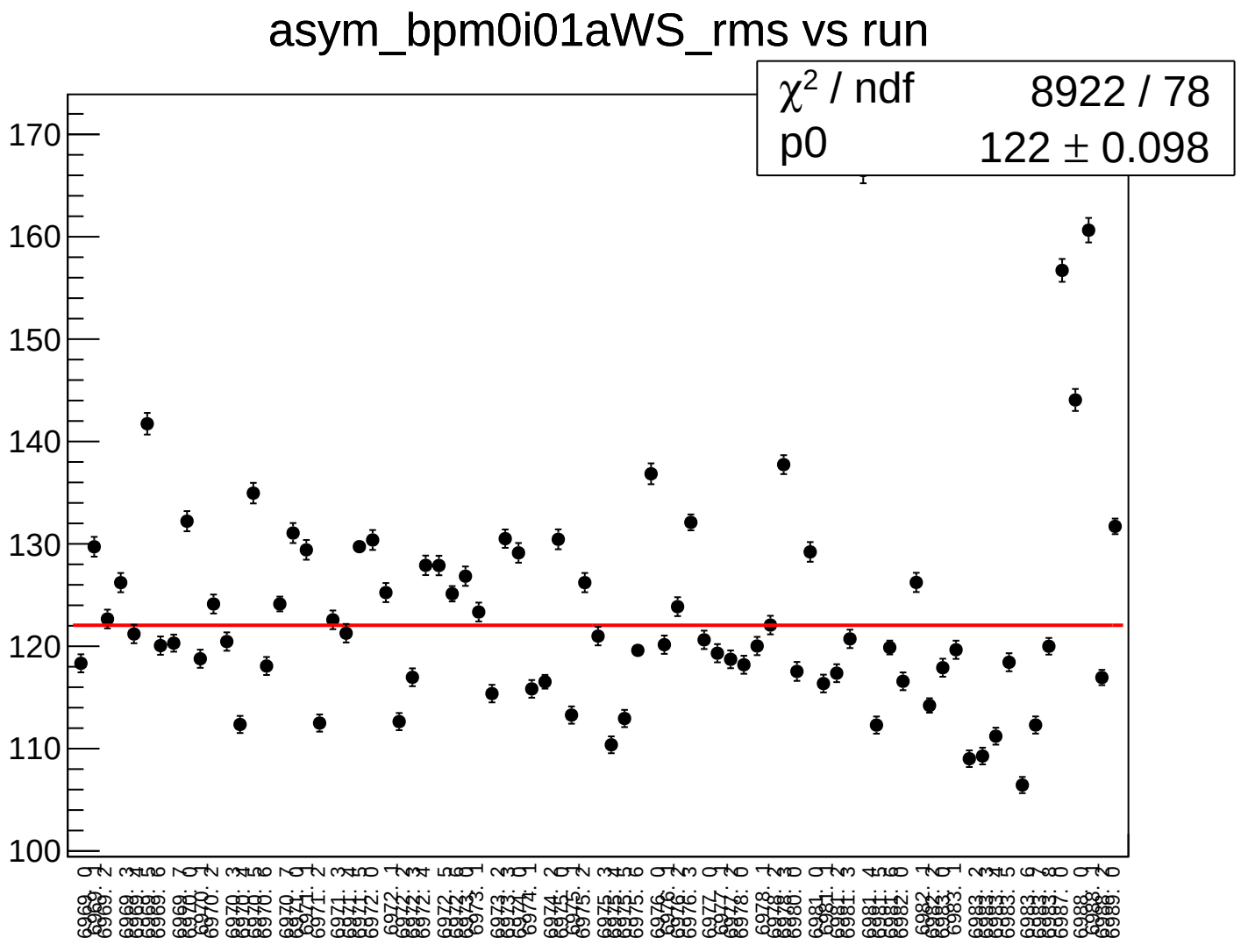

asym_bpm0i01WS_mean vs run
χ² / ndf 755.2 / 78
p0 1105 ± 158.1
pull
Entries 79
Mean −7308
Std Dev 7349

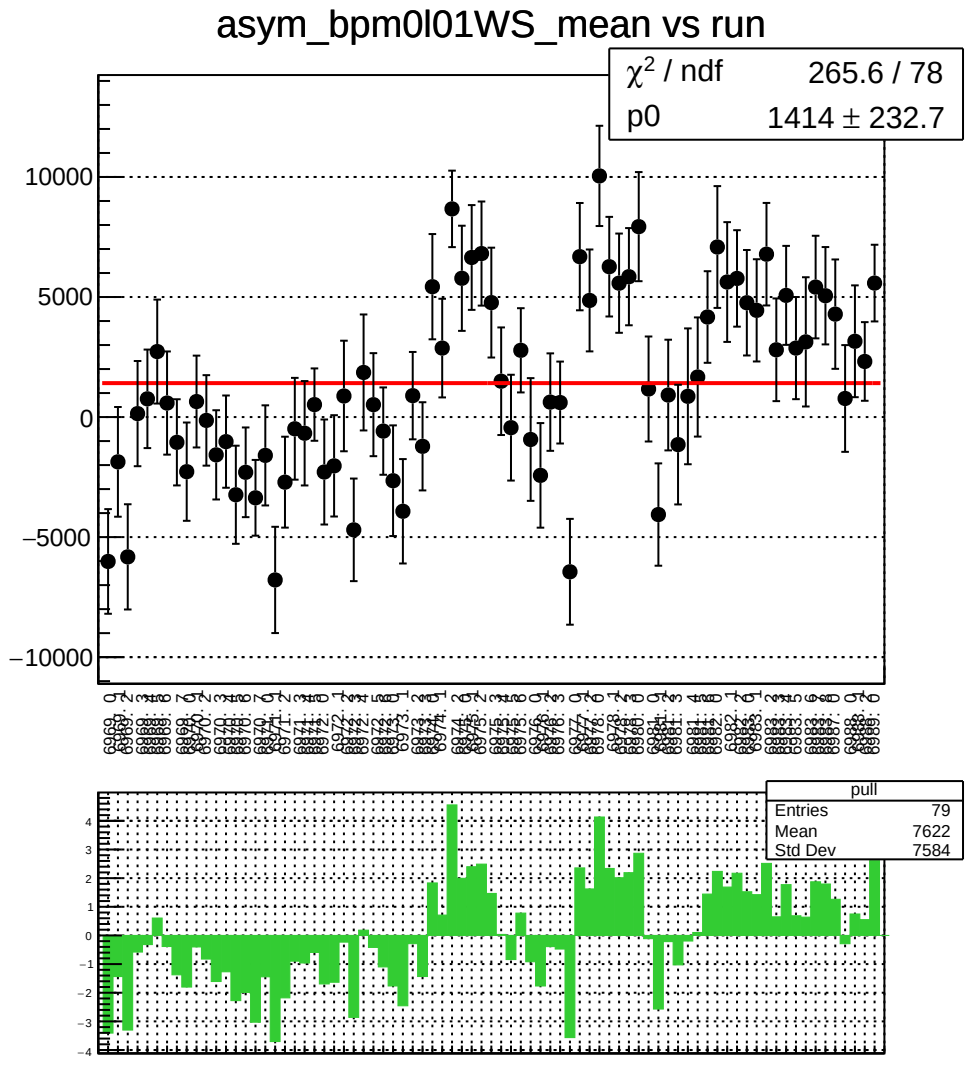

pull1D
Entries 79
Mean −0.004378
Std Dev 3.092

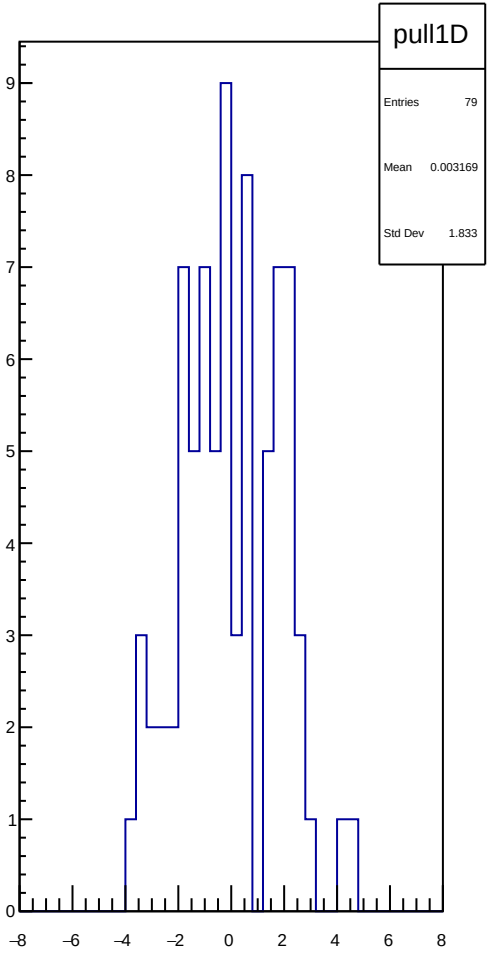

asym_bpm0i01WS_rms vs run
χ² / ndf 5557 / 78
p0 139.4 ± 0.1118
180
170
160
150
140
130

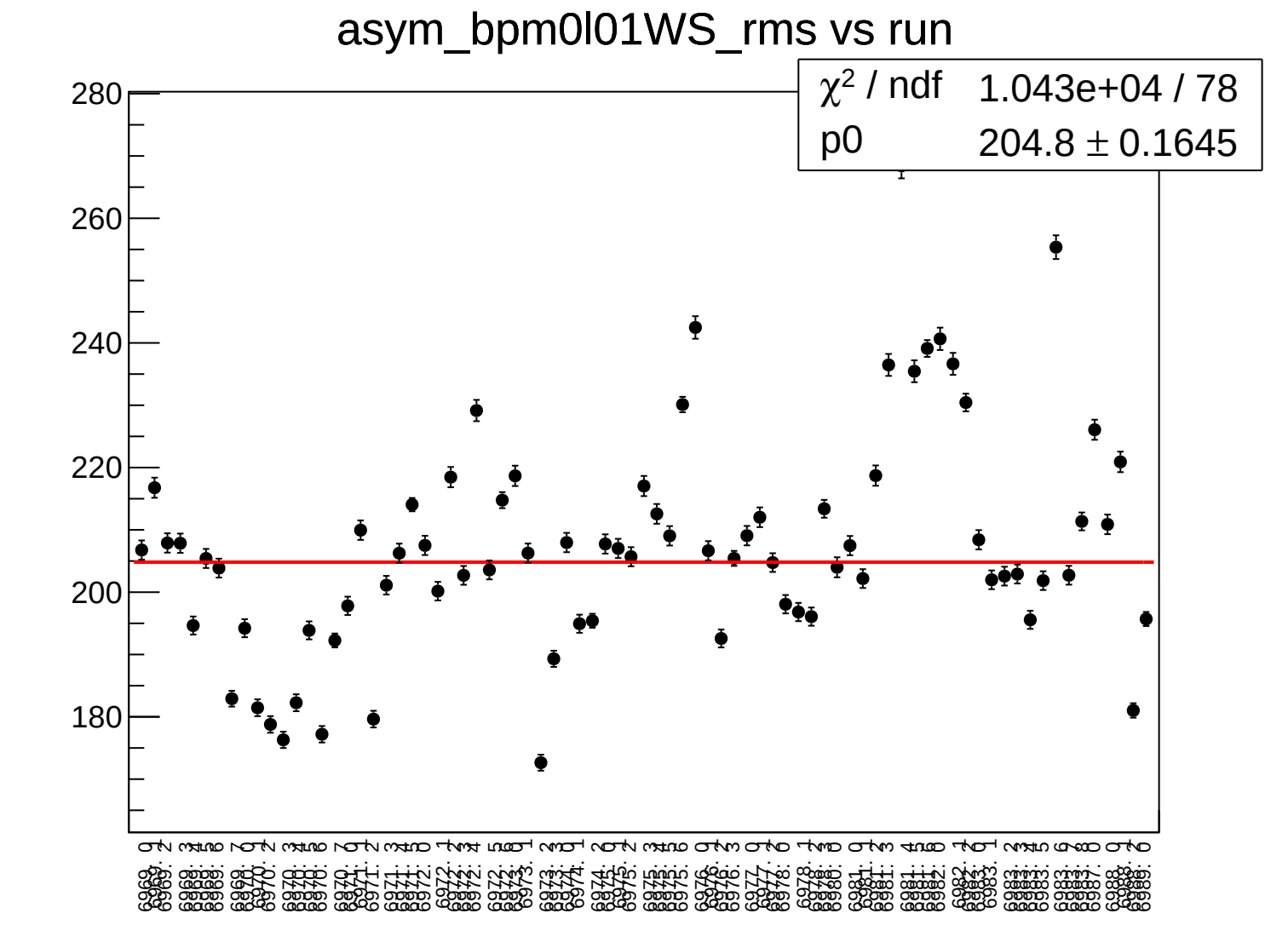

asym_bpm0i01aWS_mean vs run
χ² / ndf 1029 / 78
p0 1307 ± 138.6
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean −1966
Std Dev 2005
8
6
4
2
0
−2
−4
−6
−8

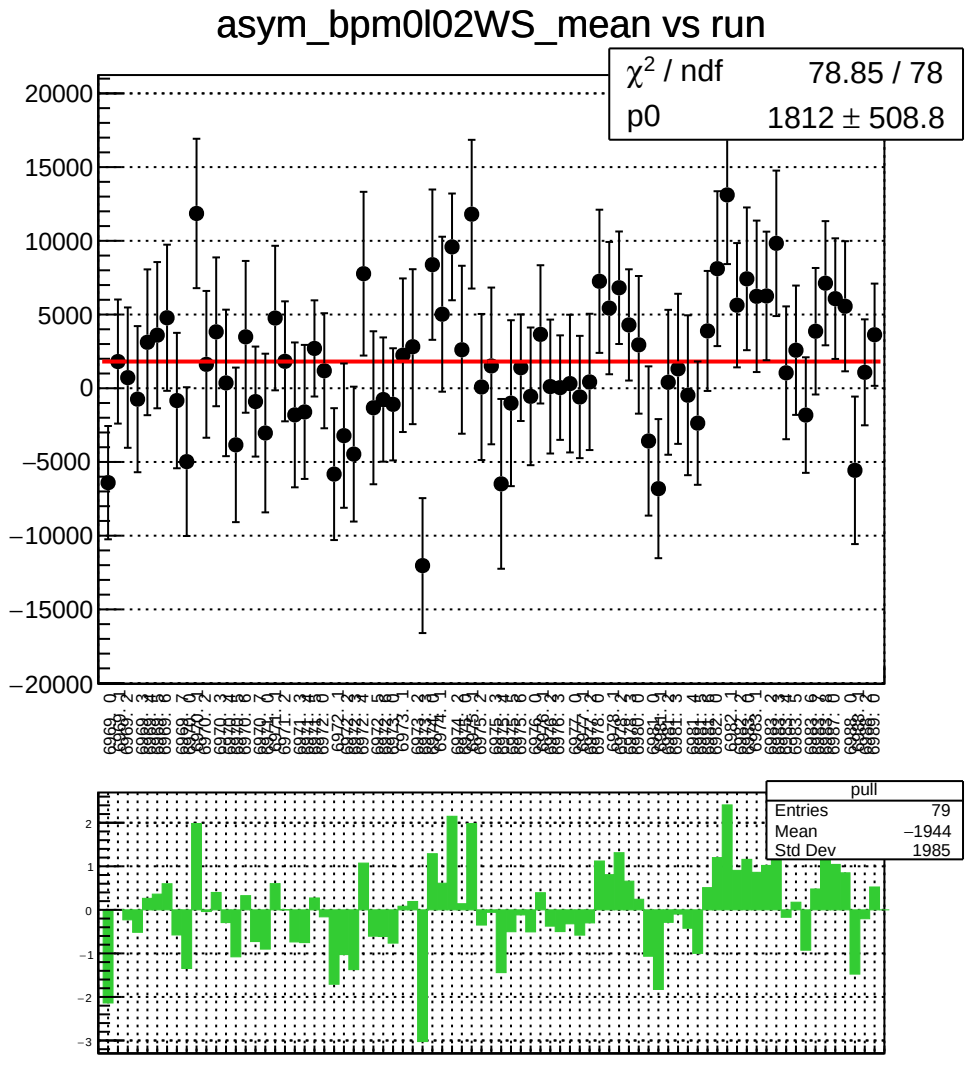

pull1D
Entries 79
Mean −0.2478
Std Dev 3.16
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

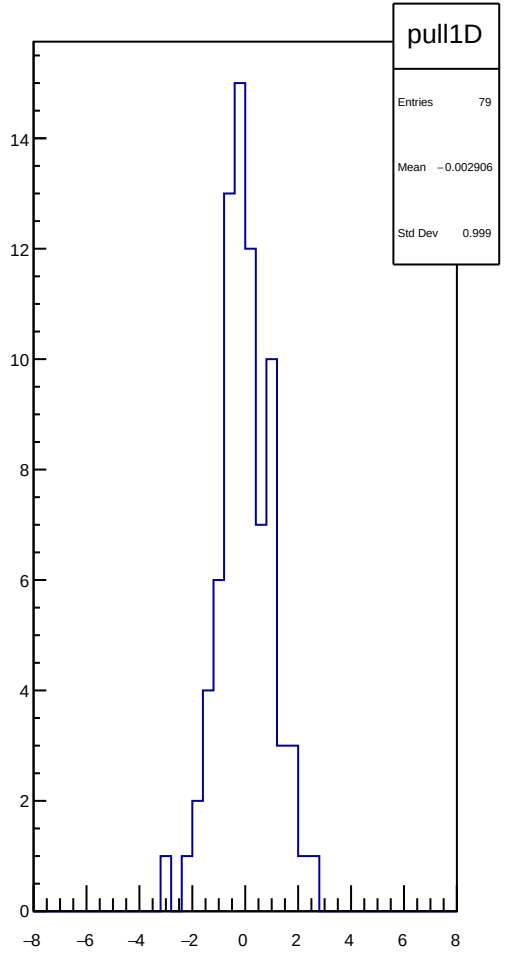

asym_bpm0i01aWS_rms vs run
χ² / ndf 8922 / 78
p0 122 ± 0.098
170
160
150
140
130
120
110
100

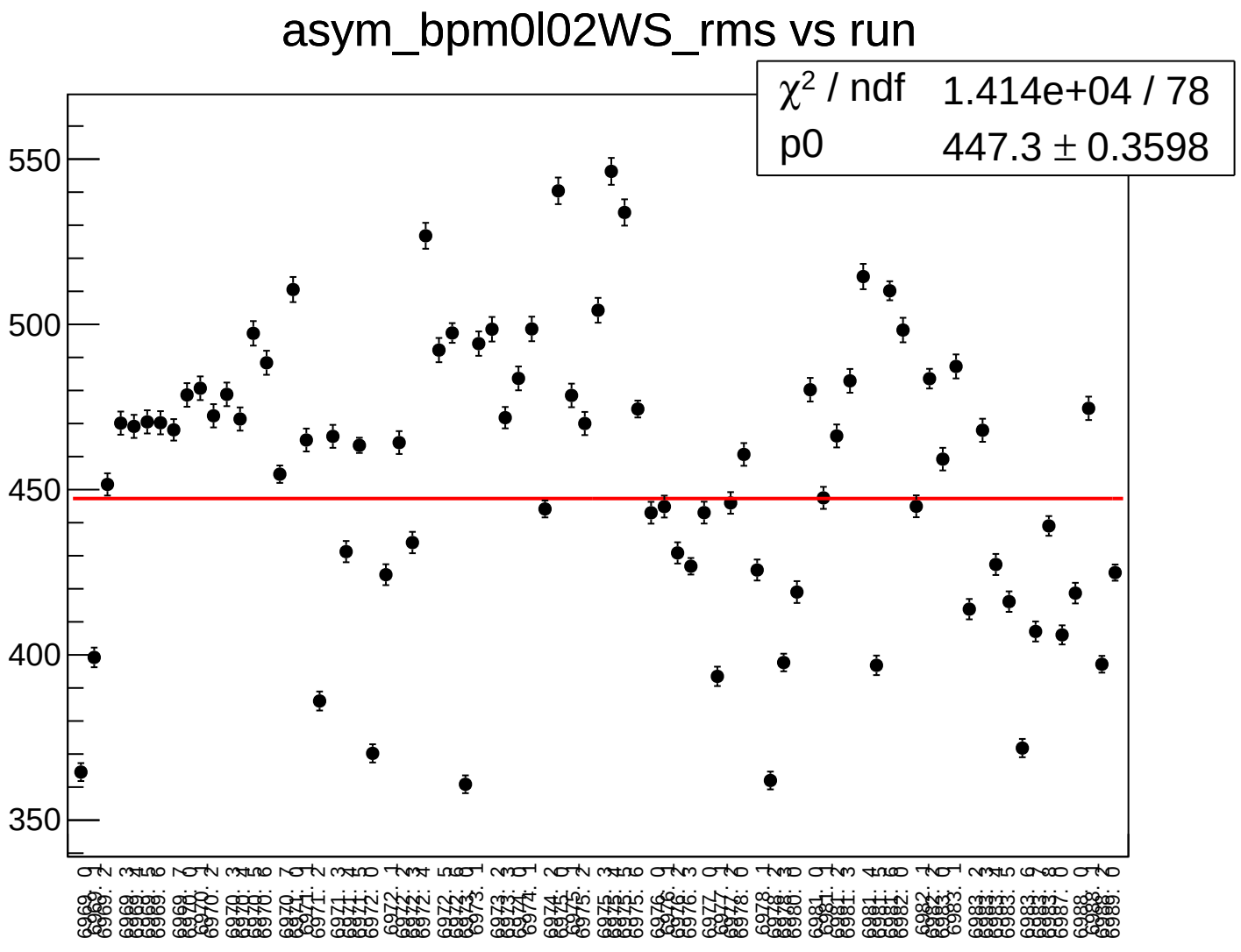

asym_bpm0l01WS_mean vs run
χ² / ndf 265.6 / 78
p0 1414 ± 232.7
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 7622
Std Dev 7584
4
3
2
1
0
−1
−2
−3
−4

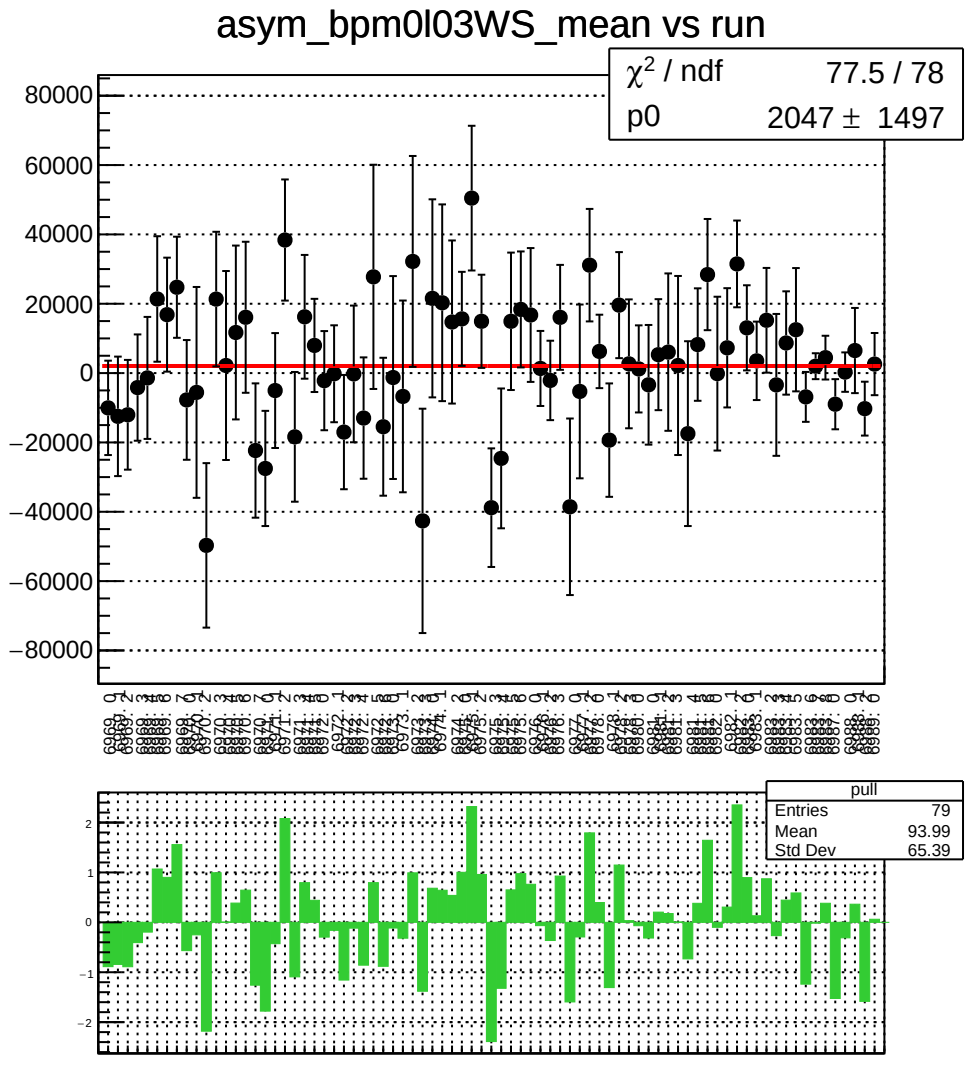

pull1D
Entries 79
Mean 0.003169
Std Dev 1.833
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

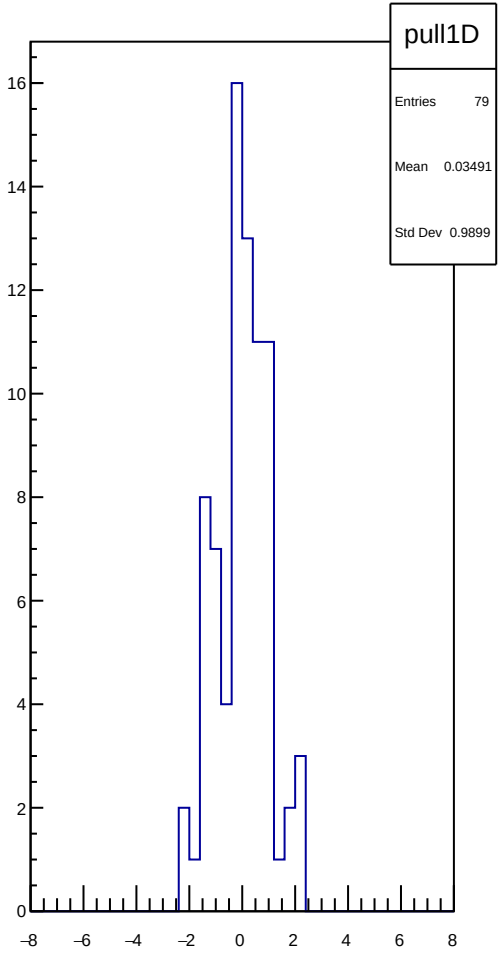

asym_bpm0l01WS_rms vs run
χ^2 / ndf 1.043e+04 / 78
p0 204.8 ± 0.1645
280
260
240
220
200
180

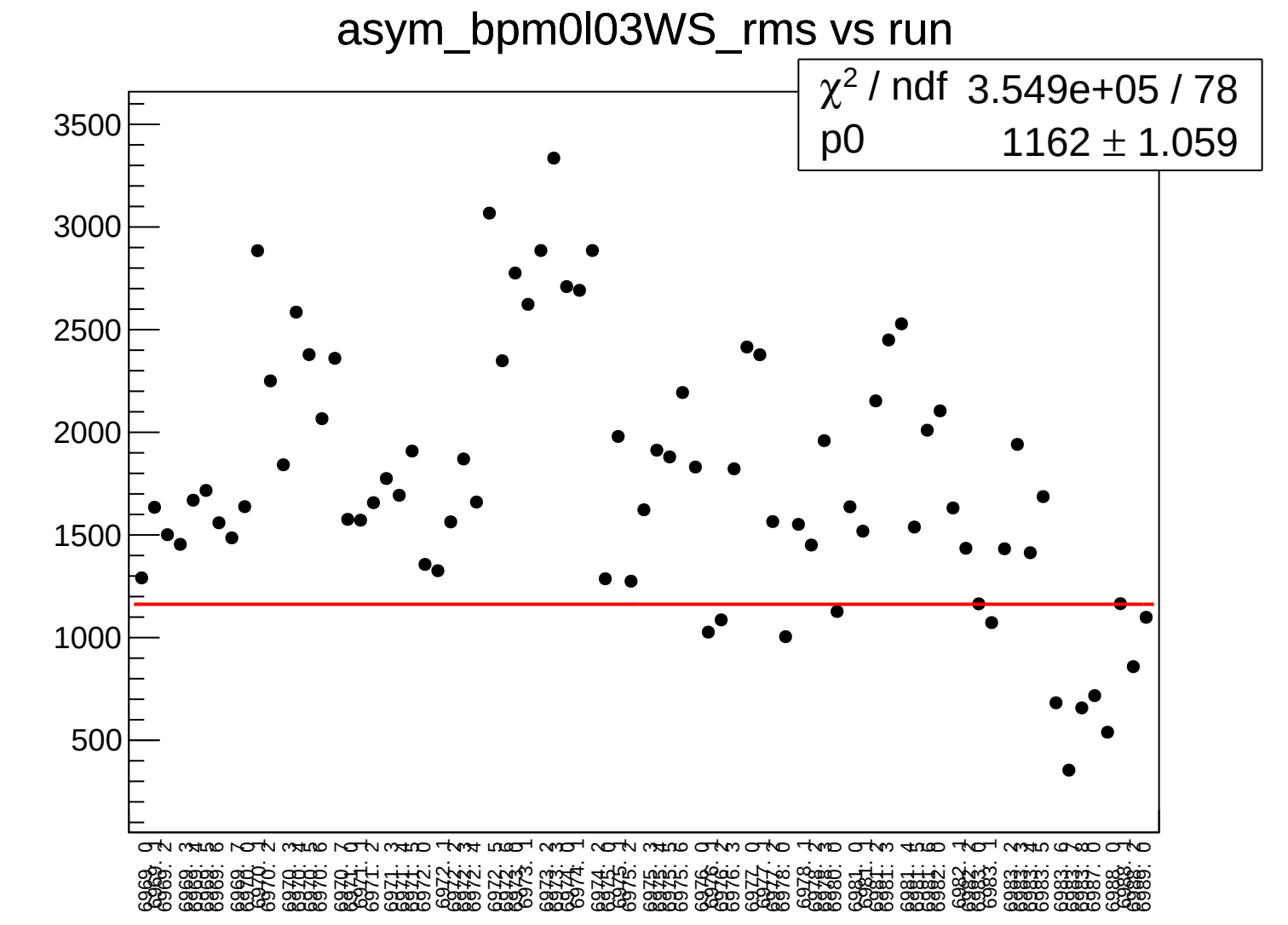

asym_bpm0l02WS_mean vs run
χ² / ndf 78.85 / 78
p0 1812 ± 508.8
pull
Entries 79
Mean −1944
Std Dev 1985

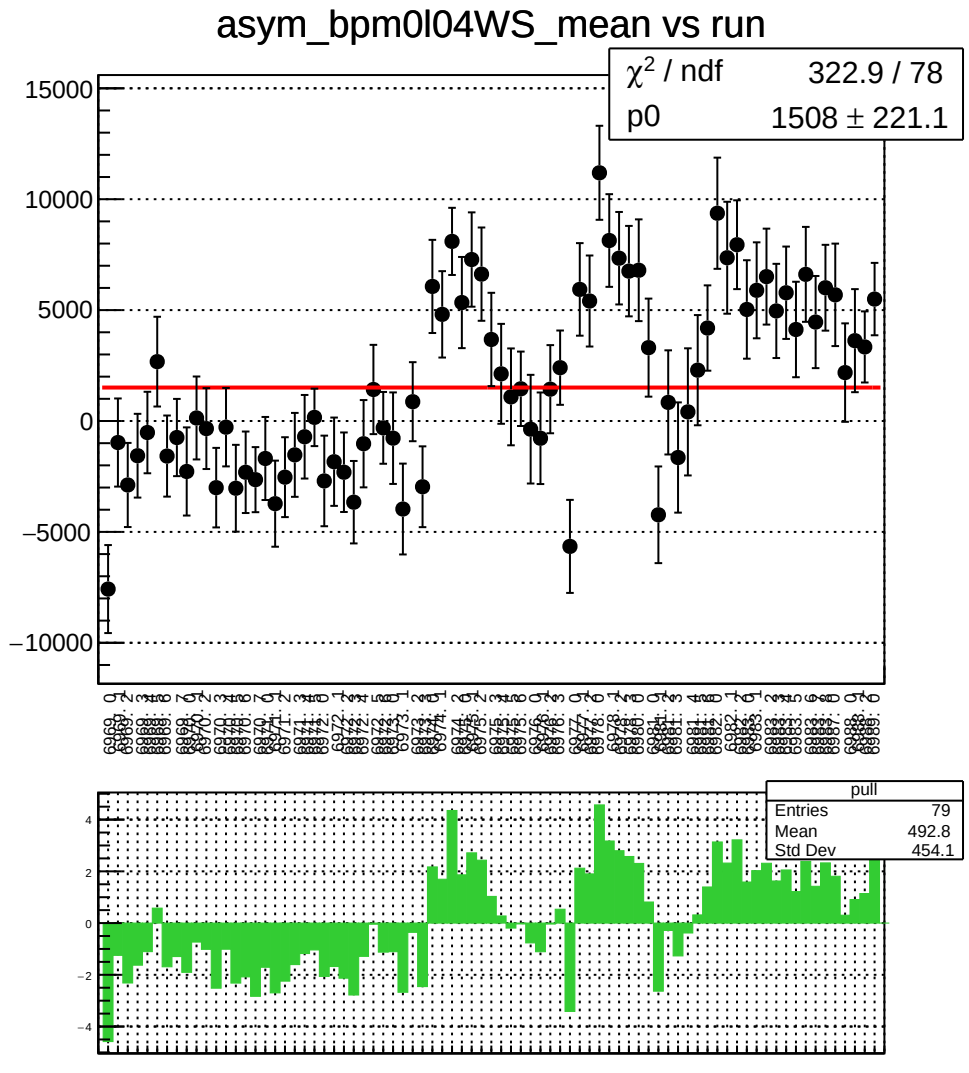

pull1D
Entries 79
Mean −0.002906
Std Dev 0.999

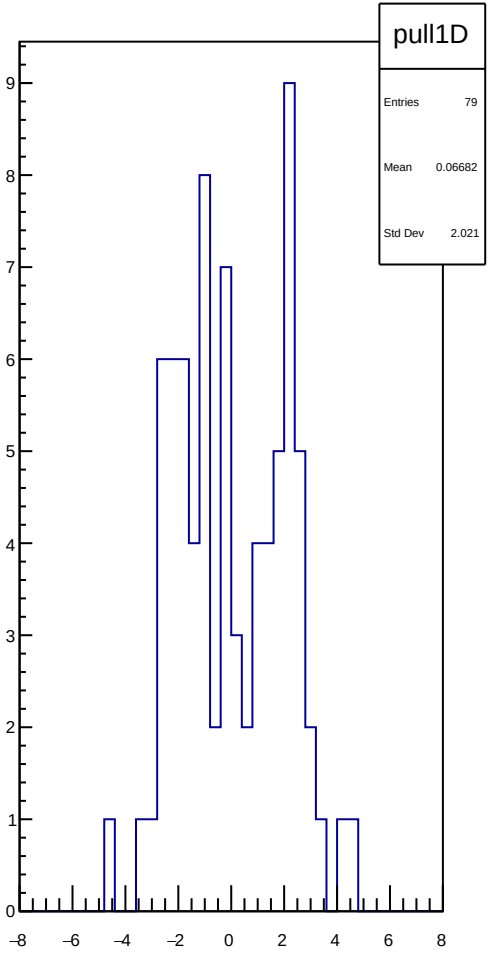

asym_bpm0l02WS_rms vs run
χ² / ndf 1.414e+04 / 78
p0 447.3 ± 0.3598
550
500
450
400
350

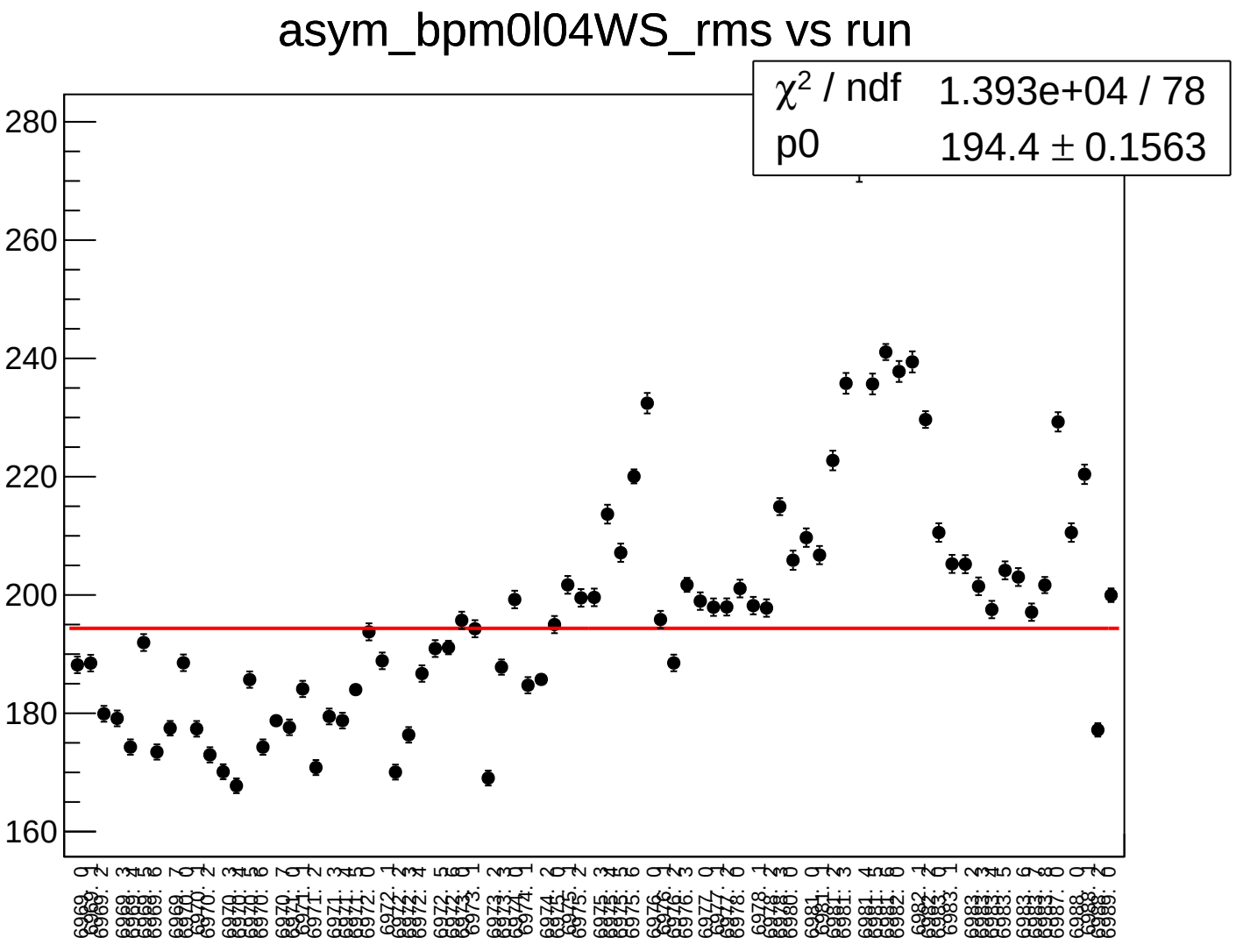

asym_bpm0l03WS_mean vs run
χ² / ndf 77.5 / 78
p0 2047 ± 1497
pull
Entries 79
Mean 93.99
Std Dev 65.39

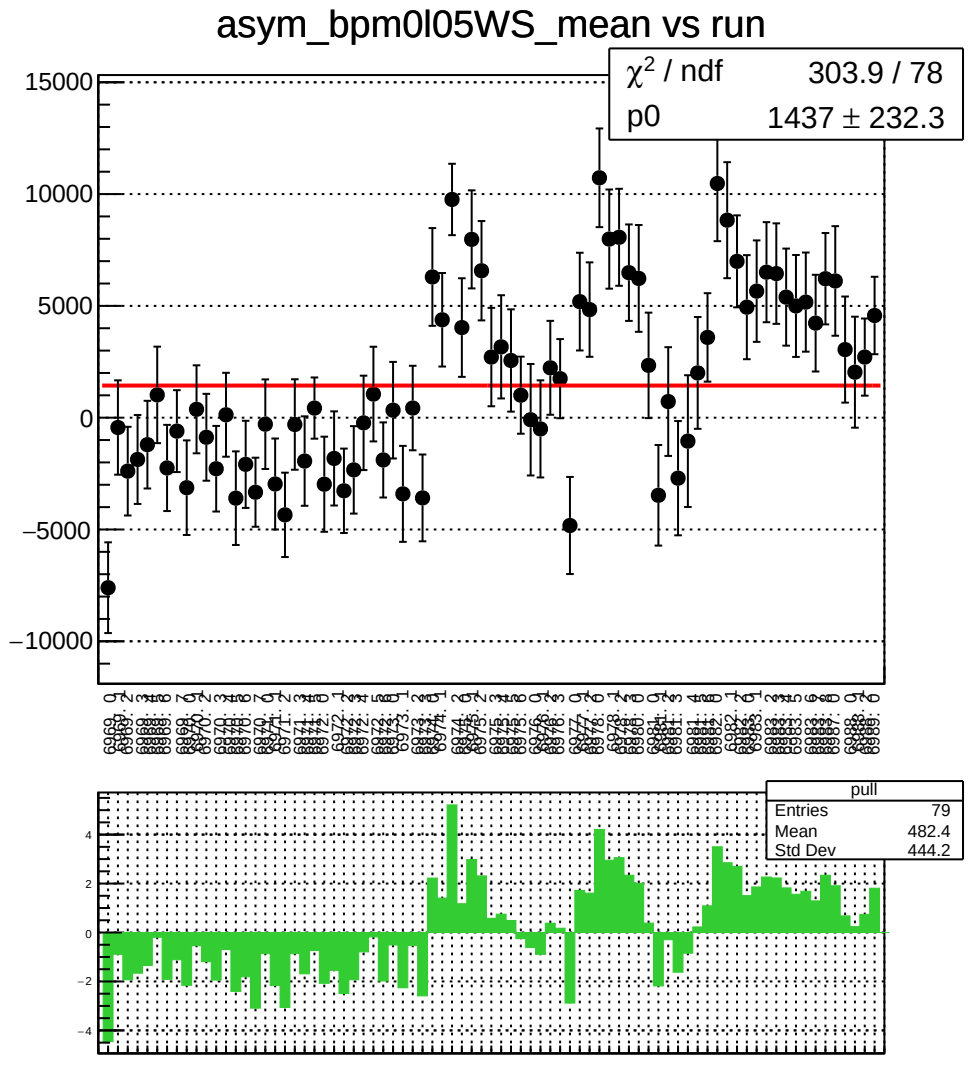

pull1D
Entries 79
Mean 0.03491
Std Dev 0.9899

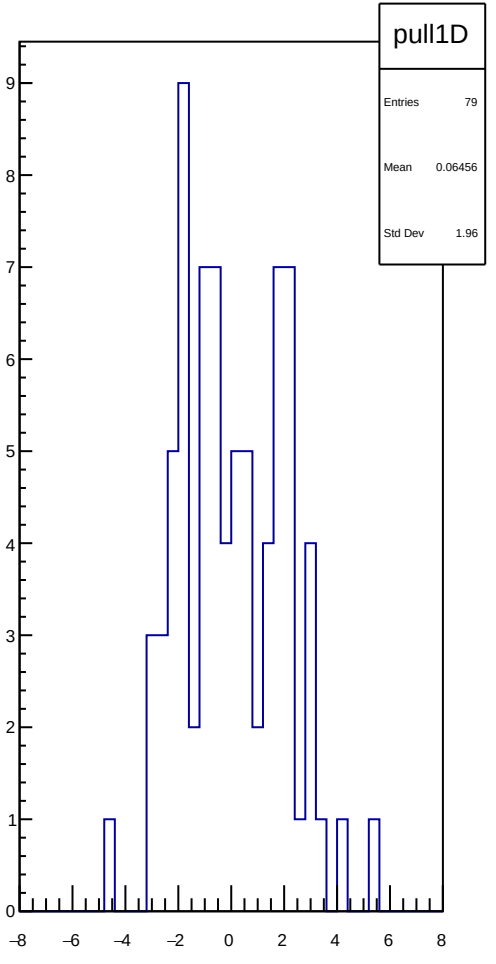

asym_bpm0l03WS_rms vs run
χ^2 / ndf 3.549e+05 / 78
p0 1162 ± 1.059
3500
3000
2500
2000
1500
1000
500

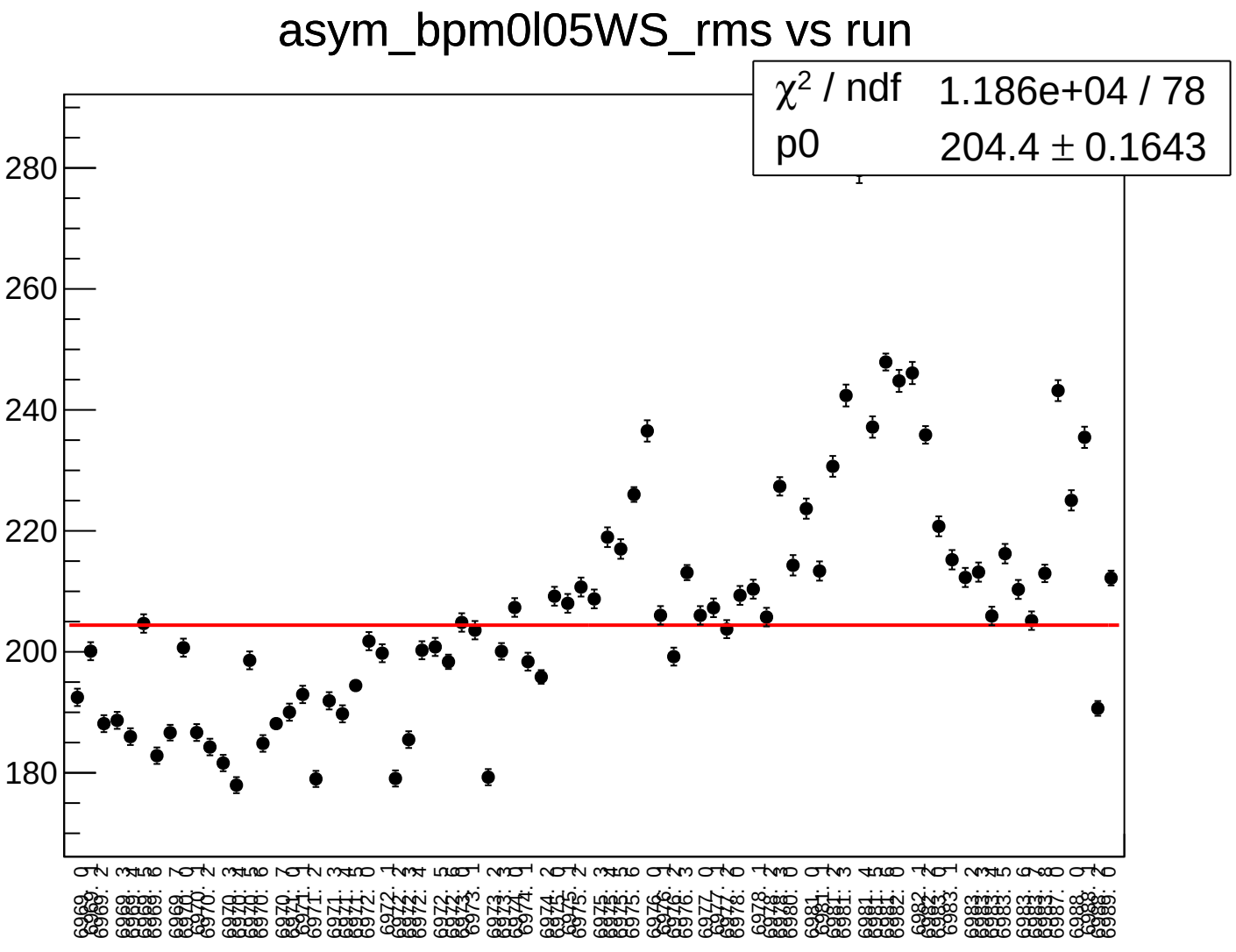

asym_bpm0l04WS_mean vs run
χ² / ndf 322.9 / 78
p0 1508 ± 221.1
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 492.8
Std Dev 454.1
4
2
0
−2
−4

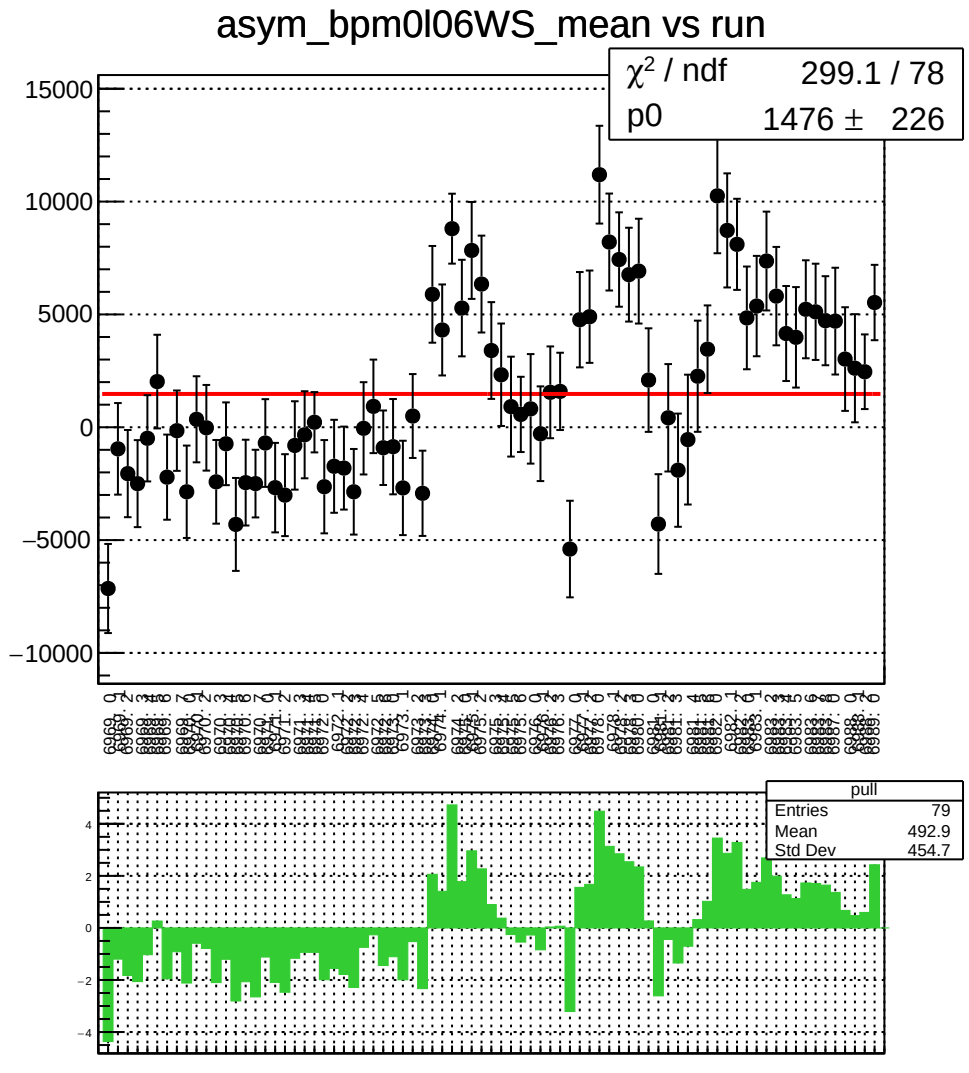

pull1D
Entries 79
Mean 0.06682
Std Dev 2.021
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

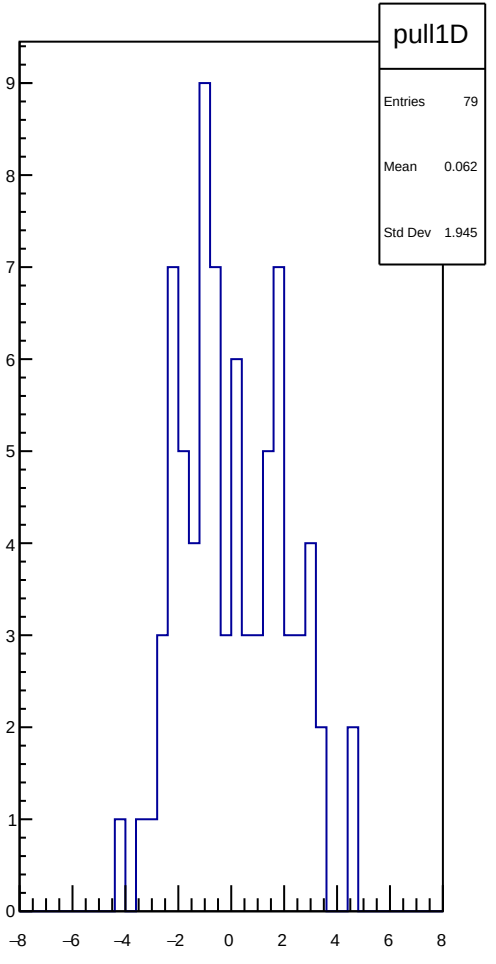

asym_bpm0l04WS_rms vs run
χ² / ndf 1.393e+04 / 78
p0 194.4 ± 0.1563
280
260
240
220
200
180
160

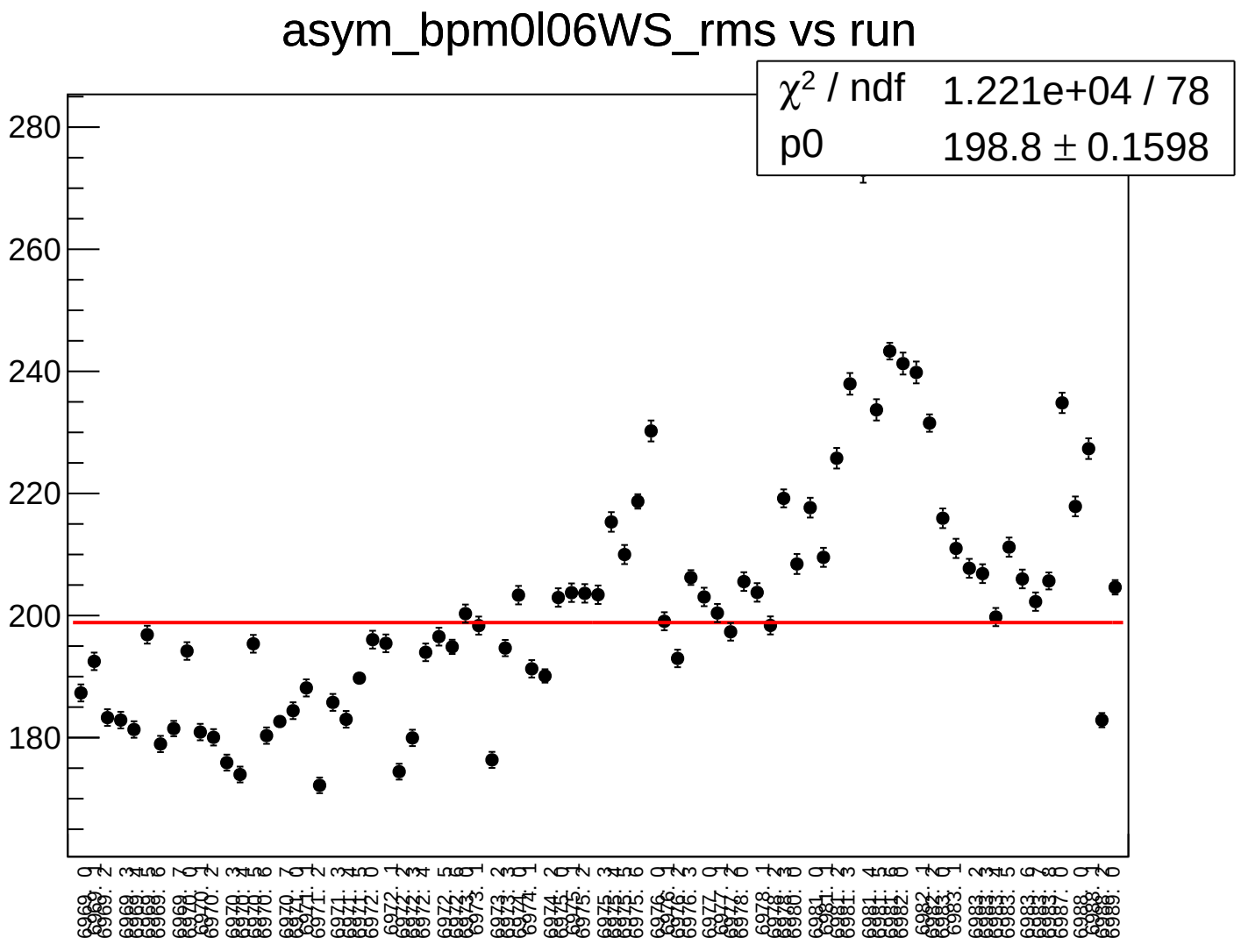

asym_bpm0l05WS_mean vs run
χ² / ndf 303.9 / 78
p0 1437 ± 232.3
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 482.4
Std Dev 444.2
4
2
0
−2
−4

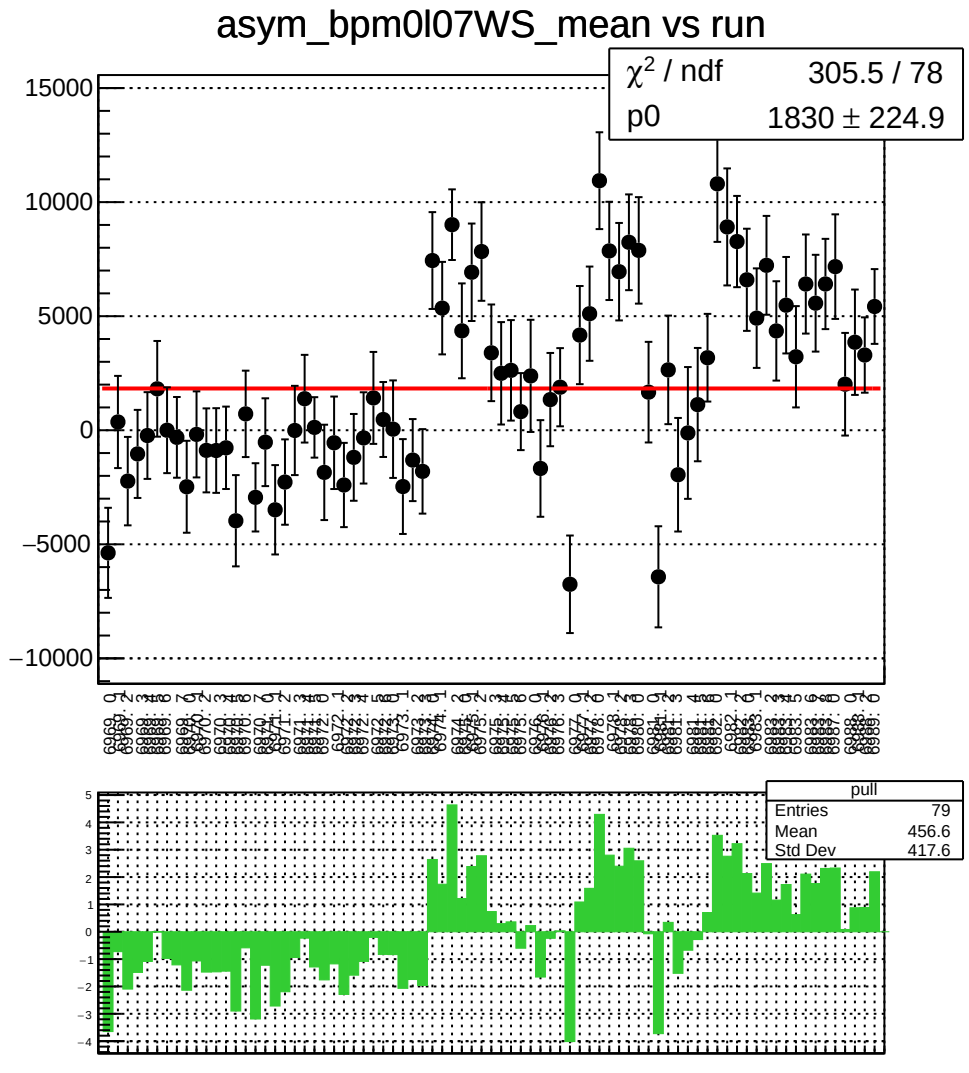

pull1D
Entries 79
Mean 0.06456
Std Dev 1.96
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

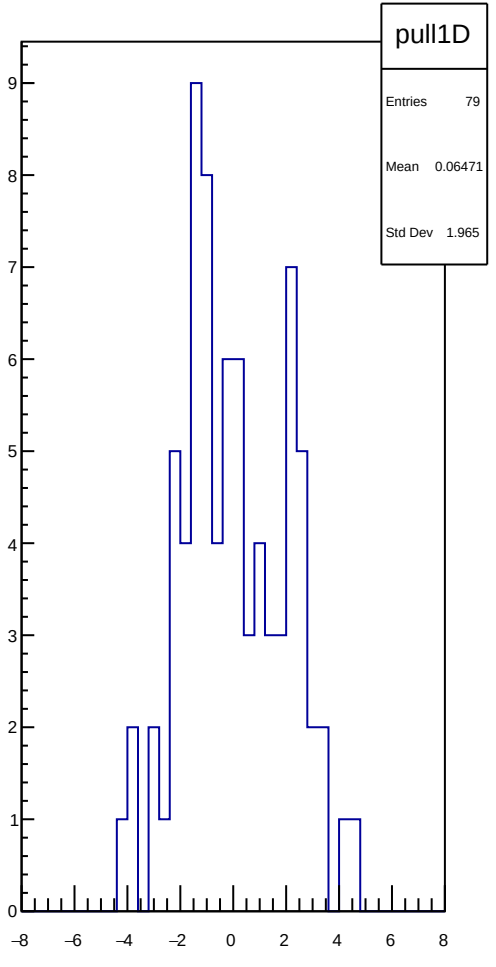

asym_bpm0l05WS_rms vs run
χ^2 / ndf 1.186e+04 / 78
p0 204.4 ± 0.1643
280
260
240
220
200
180

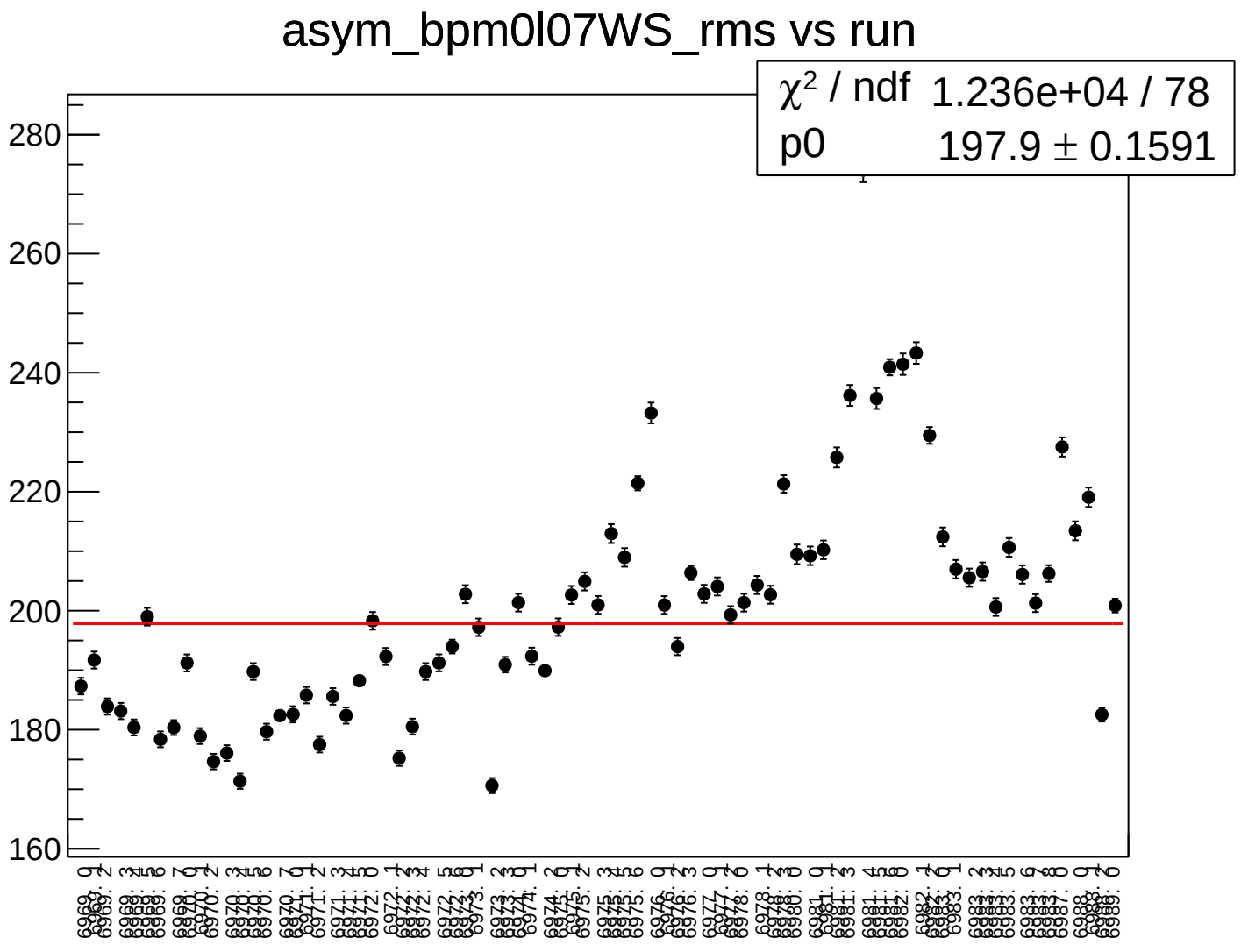

asym_bpm0l06WS_mean vs run
χ² / ndf 299.1 / 78
p0 1476 ± 226
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 492.9
Std Dev 454.7
4
2
0
−2
−4

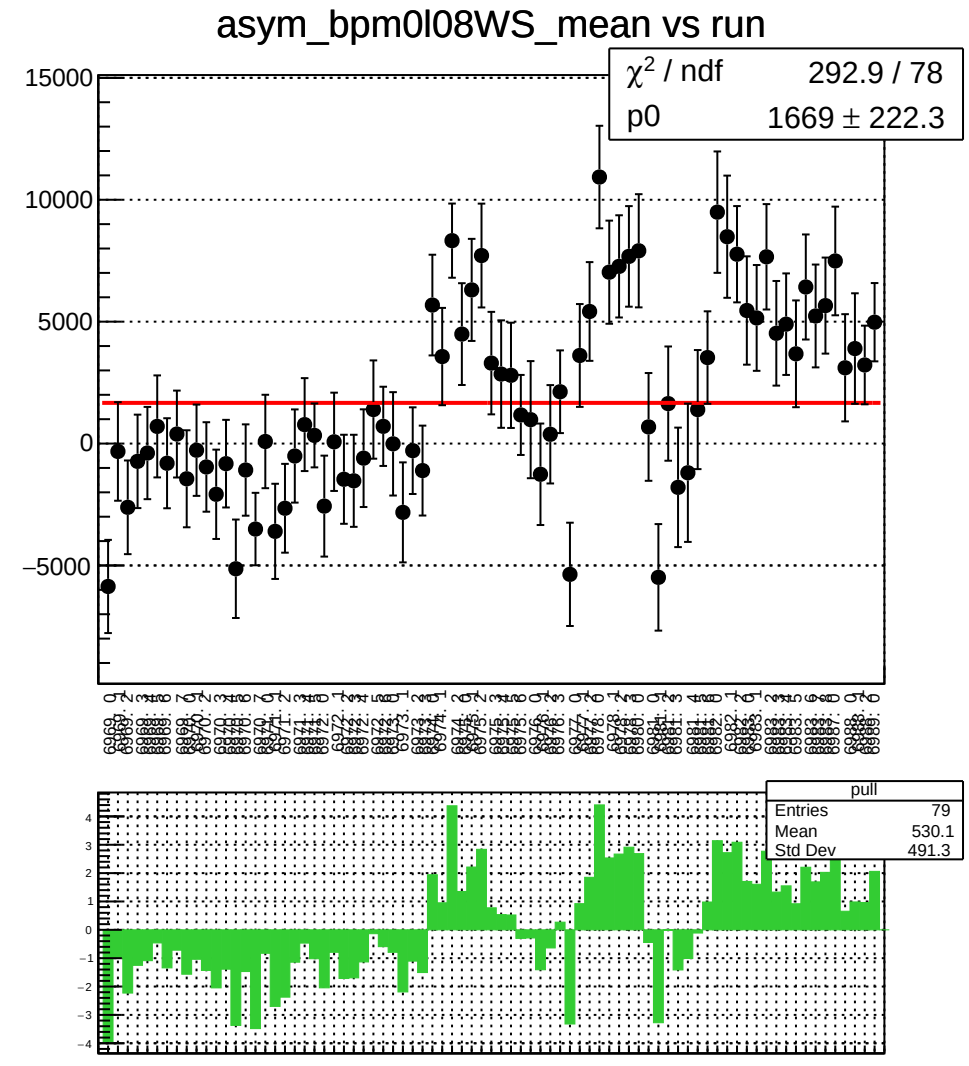

pull1D
Entries 79
Mean 0.062
Std Dev 1.945
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

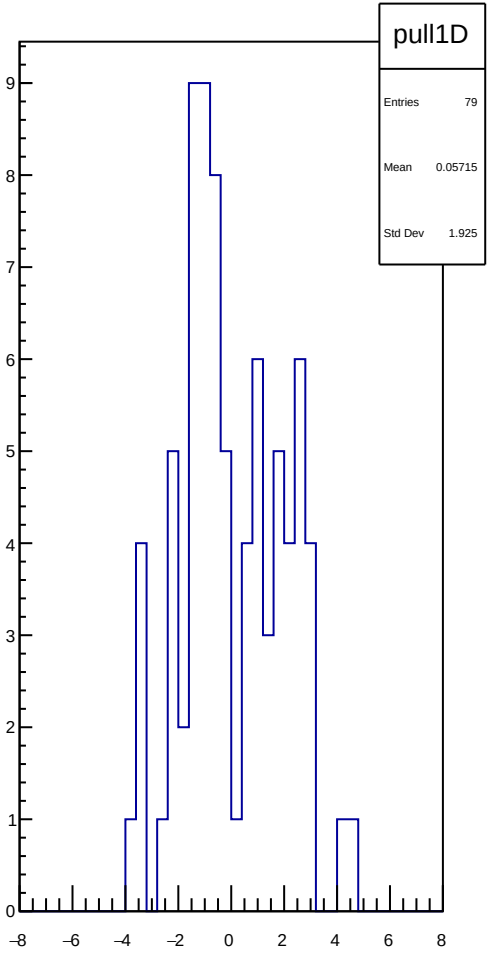

asym_bpm0l06WS_rms vs run
χ² / ndf 1.221e+04 / 78
p0 198.8 ± 0.1598
280
260
240
220
200
180

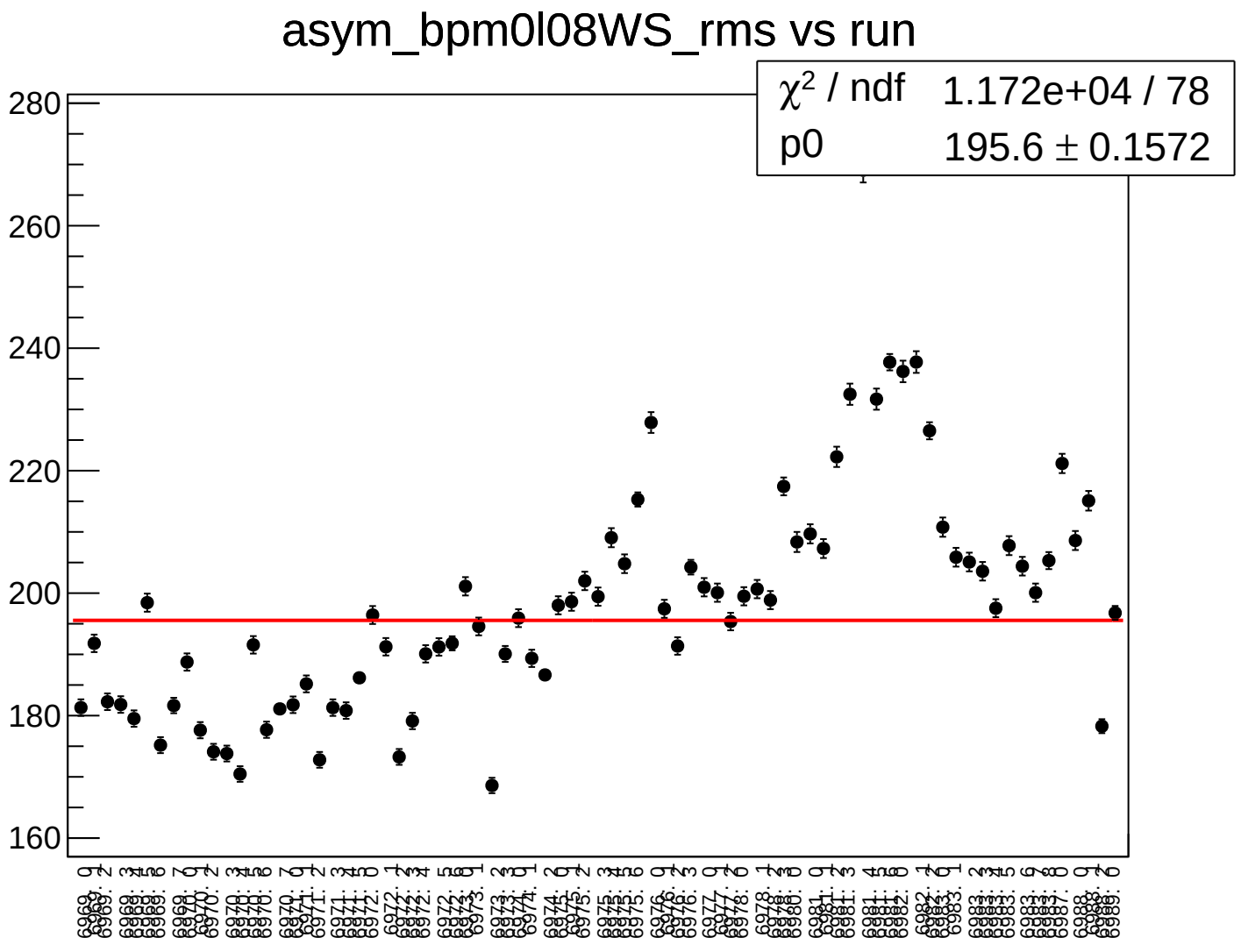

asym_bpm0l07WS_mean vs run
χ² / ndf 305.5 / 78
p0 1830 ± 224.9
pull
Entries 79
Mean 456.6
Std Dev 417.6

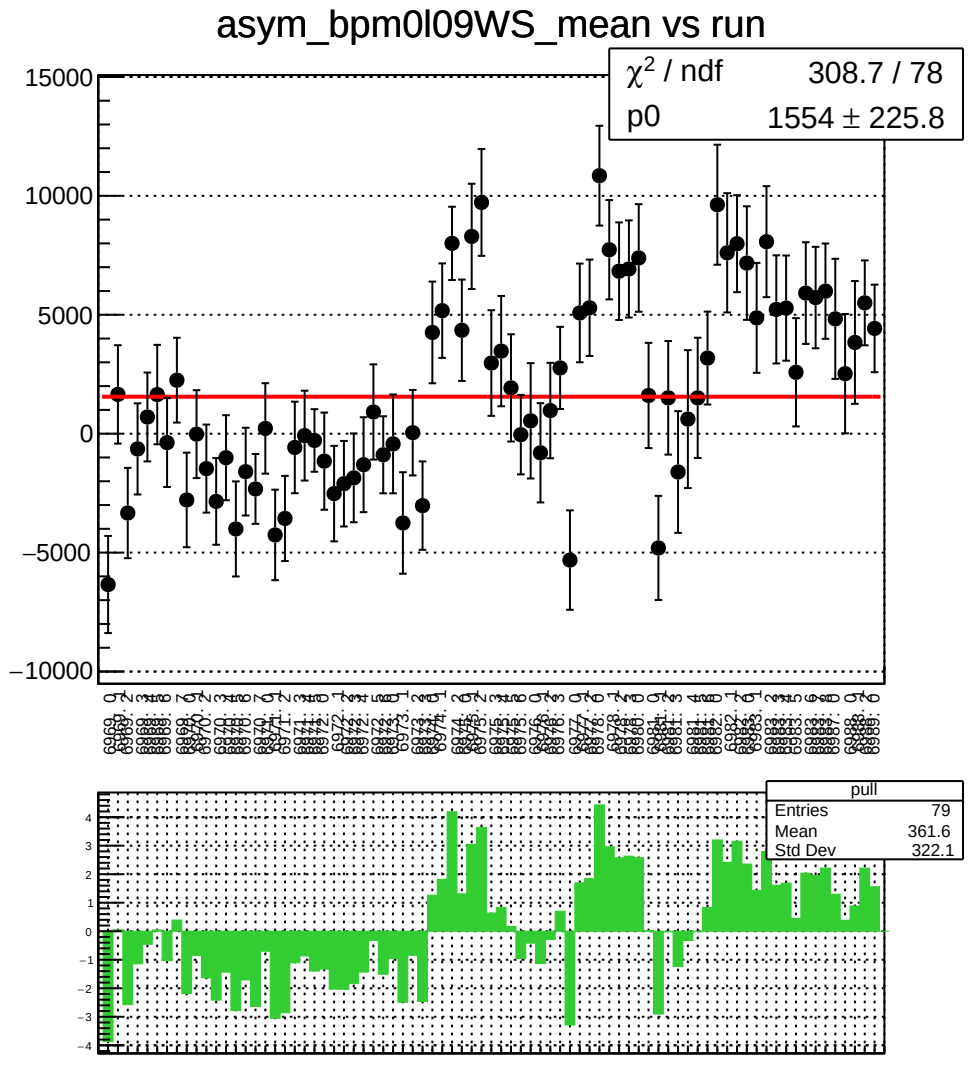

pull1D
Entries 79
Mean 0.06471
Std Dev 1.965

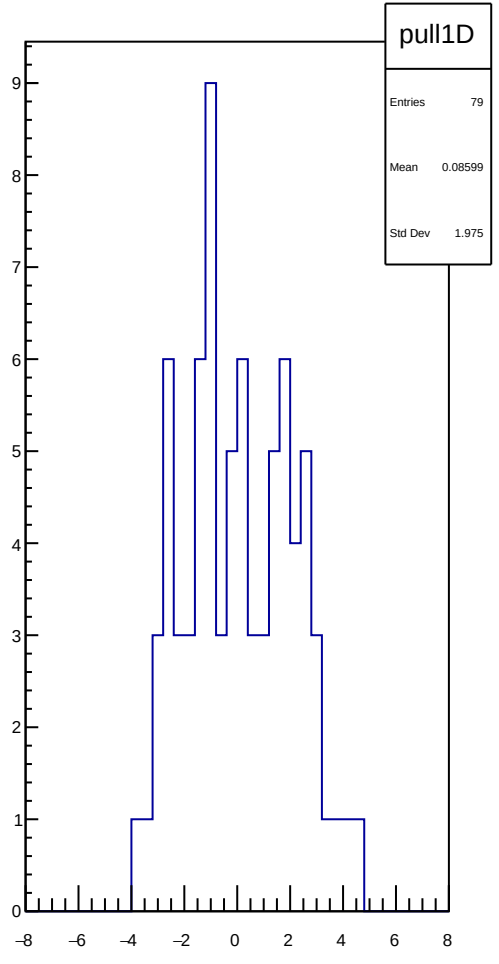

asym_bpm0l07WS_rms vs run
χ² / ndf 1.236e+04 / 78
p0 197.9 ± 0.1591
280
260
240
220
200
180
160

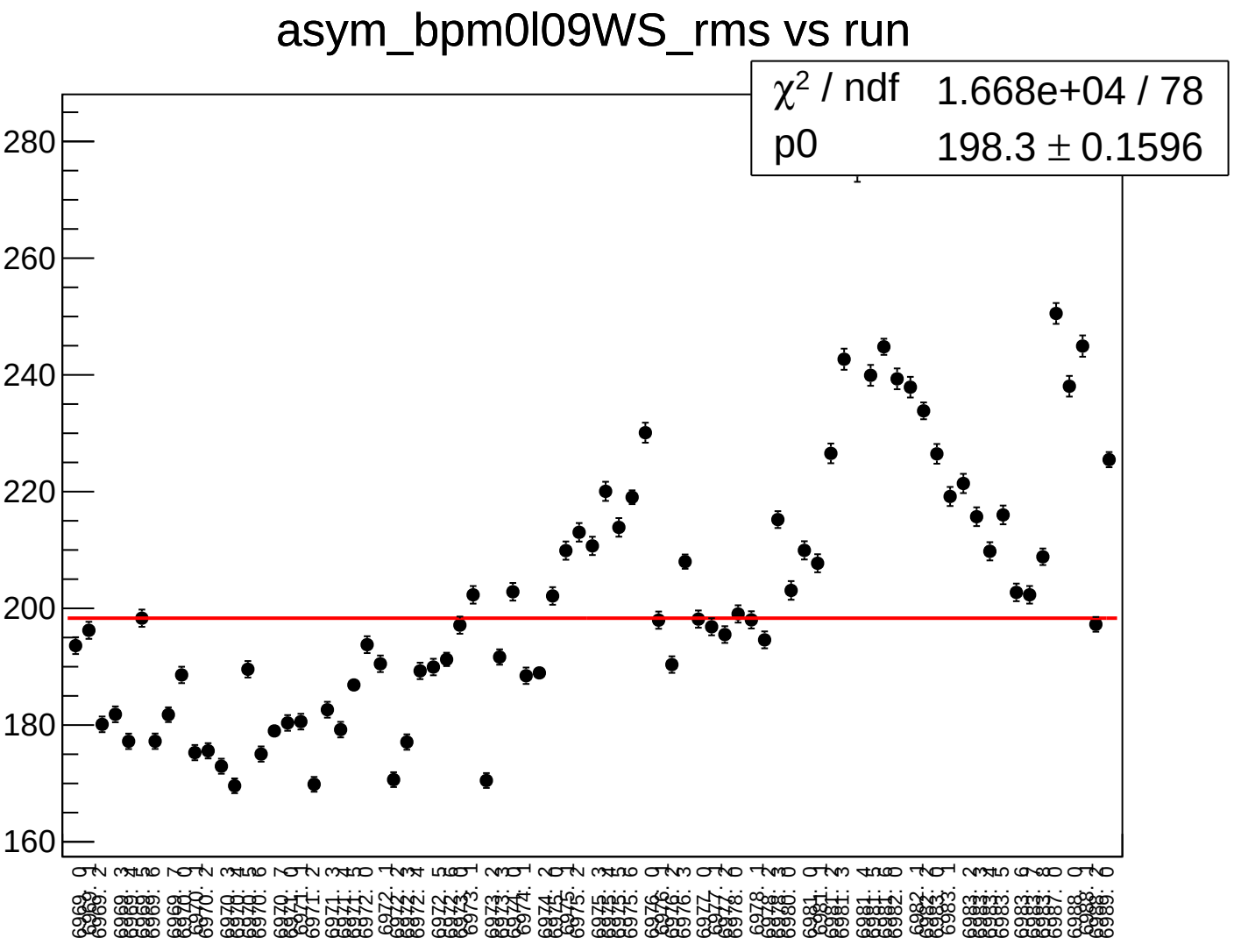

asym_bpm0l08WS_mean vs run
χ² / ndf 292.9 / 78
p0 1669 ± 222.3
15000
10000
5000
0
−5000
pull
Entries 79
Mean 530.1
Std Dev 491.3
4
3
2
1
0
−1
−2
−3
−4

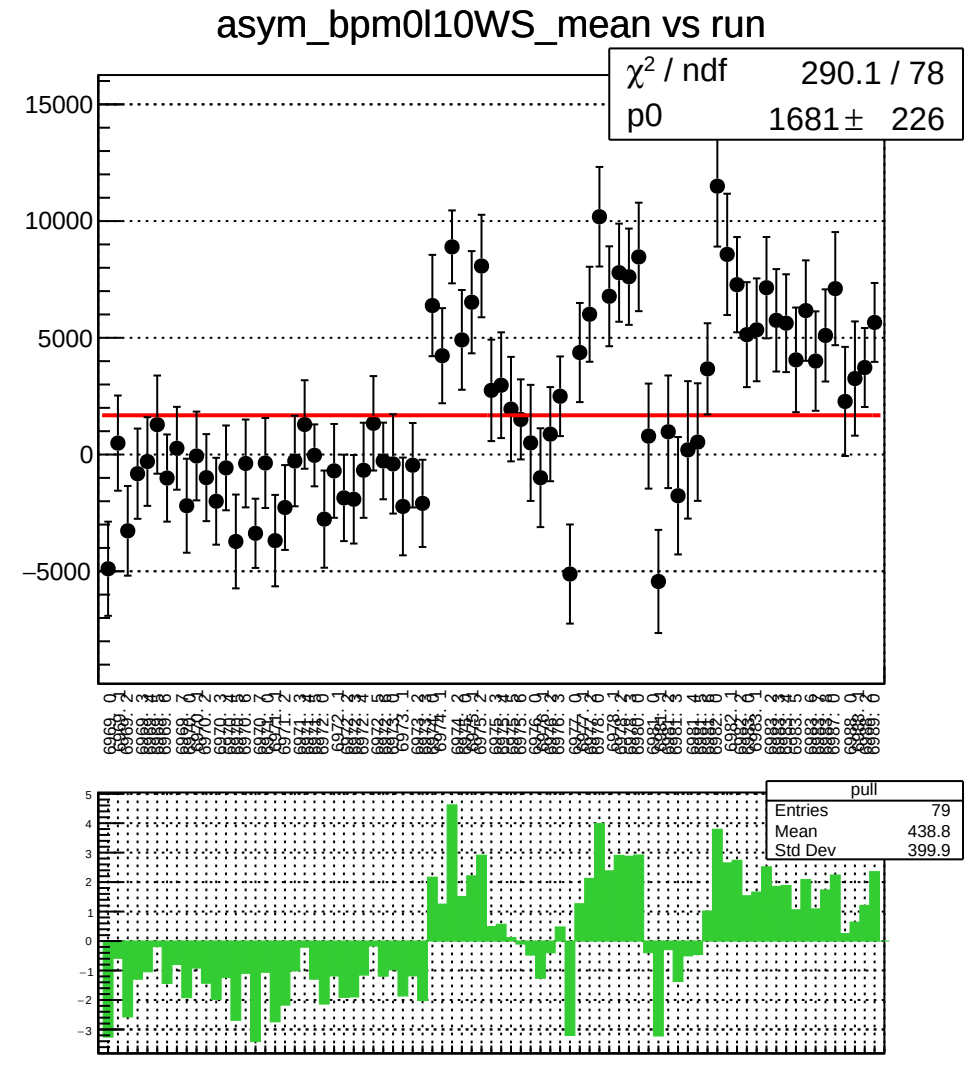

pull1D
Entries 79
Mean 0.05715
Std Dev 1.925
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

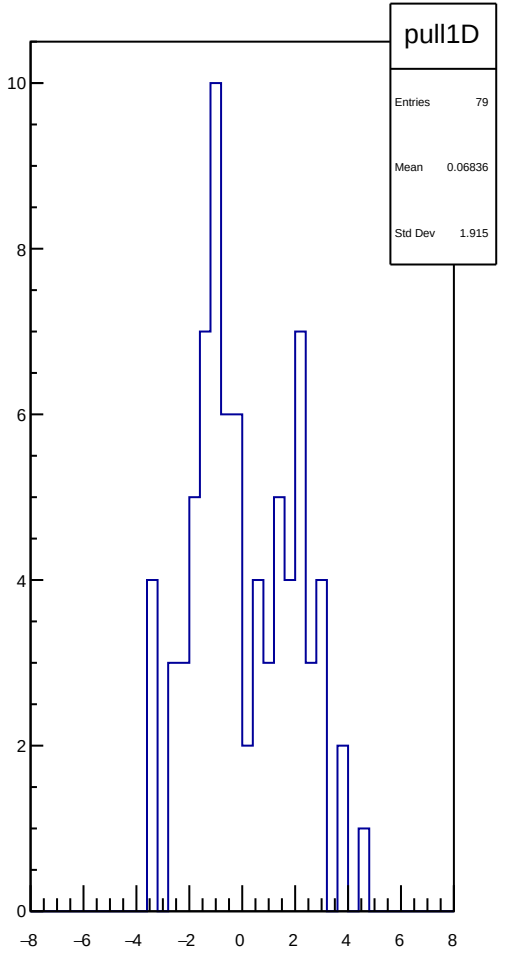

asym_bpm0l08WS_rms vs run
χ^2 / ndf 1.172e+04 / 78
p0 195.6 ± 0.1572
280
260
240
220
200
180
160

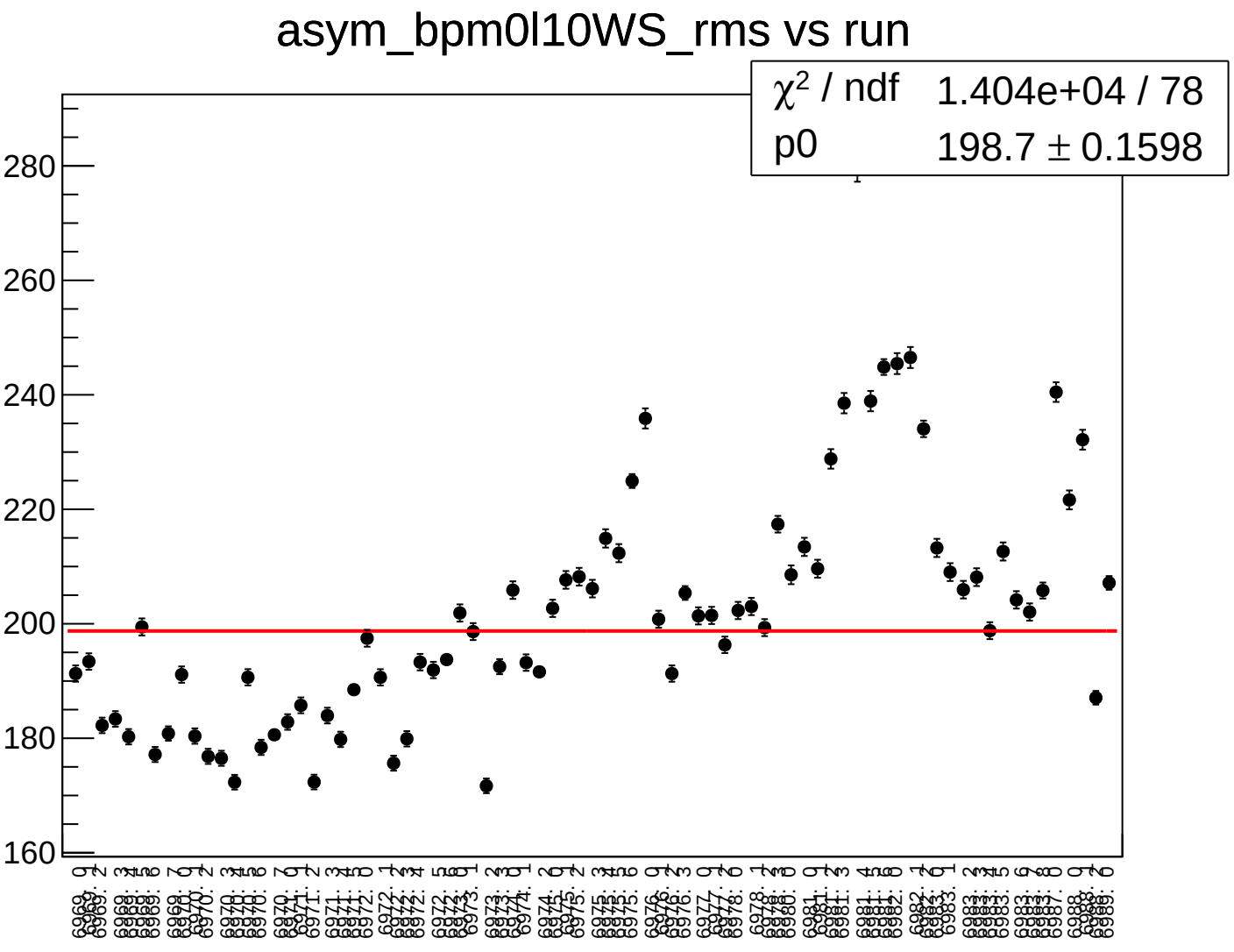

asym_bpm0l09WS_mean vs run
χ² / ndf 308.7 / 78
p0 1554 ± 225.8
pull
Entries 79
Mean 361.6
Std Dev 322.1

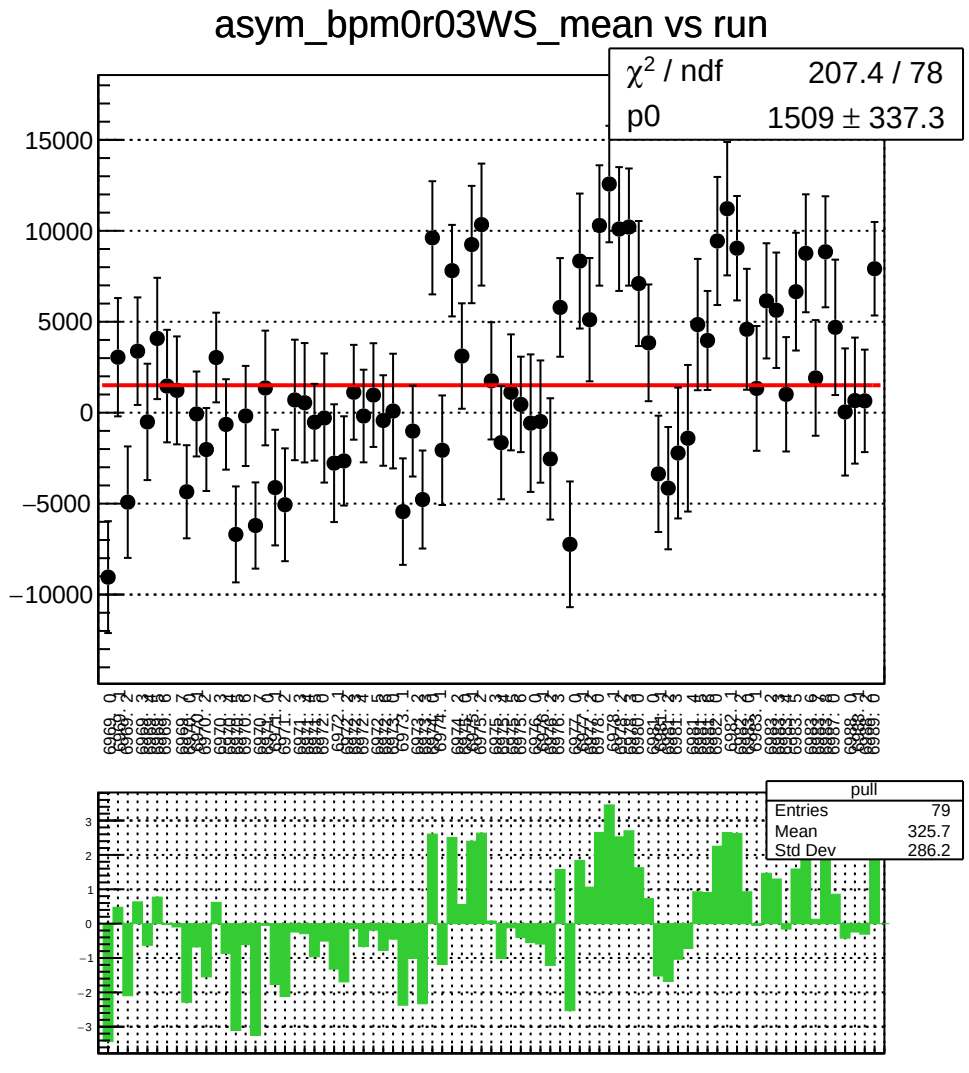

pull1D
Entries 79
Mean 0.08599
Std Dev 1.975

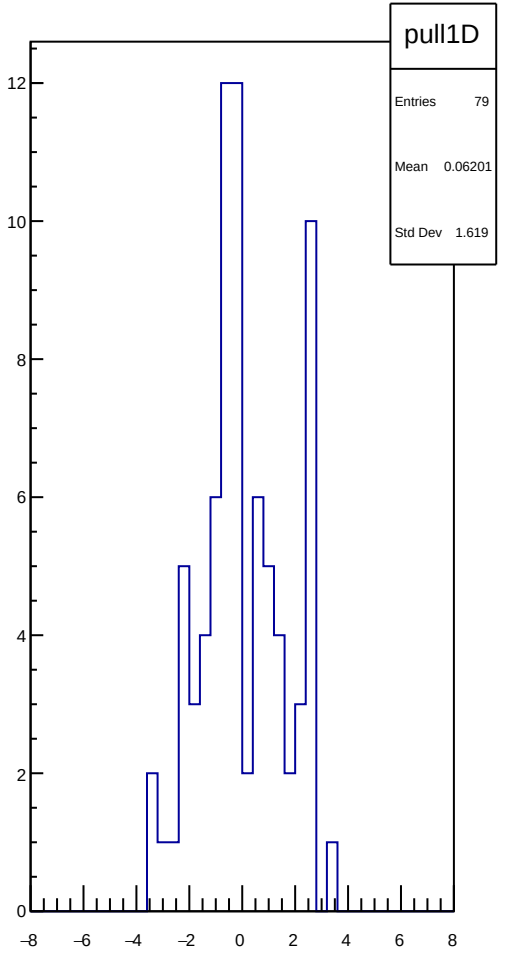

asym_bpm0l09WS_rms vs run
χ² / ndf 1.668e+04 / 78
p0 198.3 ± 0.1596
280
260
240
220
200
180
160

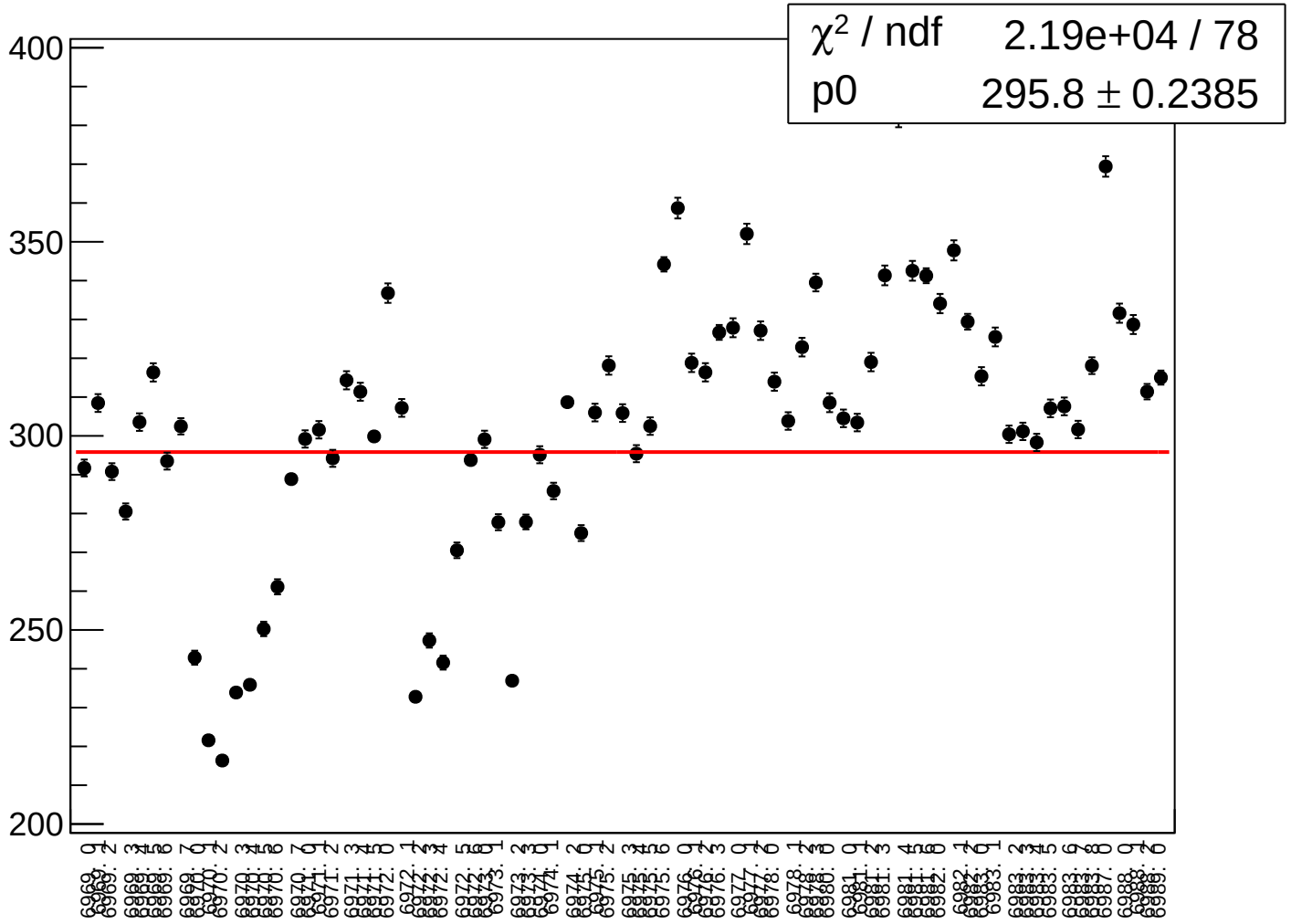

asym_bpm0l10WS_mean vs run
χ² / ndf 290.1 / 78
p0 1681 ± 226
15000
10000
5000
0
−5000
pull
Entries 79
Mean 438.8
Std Dev 399.9
5
4
3
2
1
0
−1
−2
−3

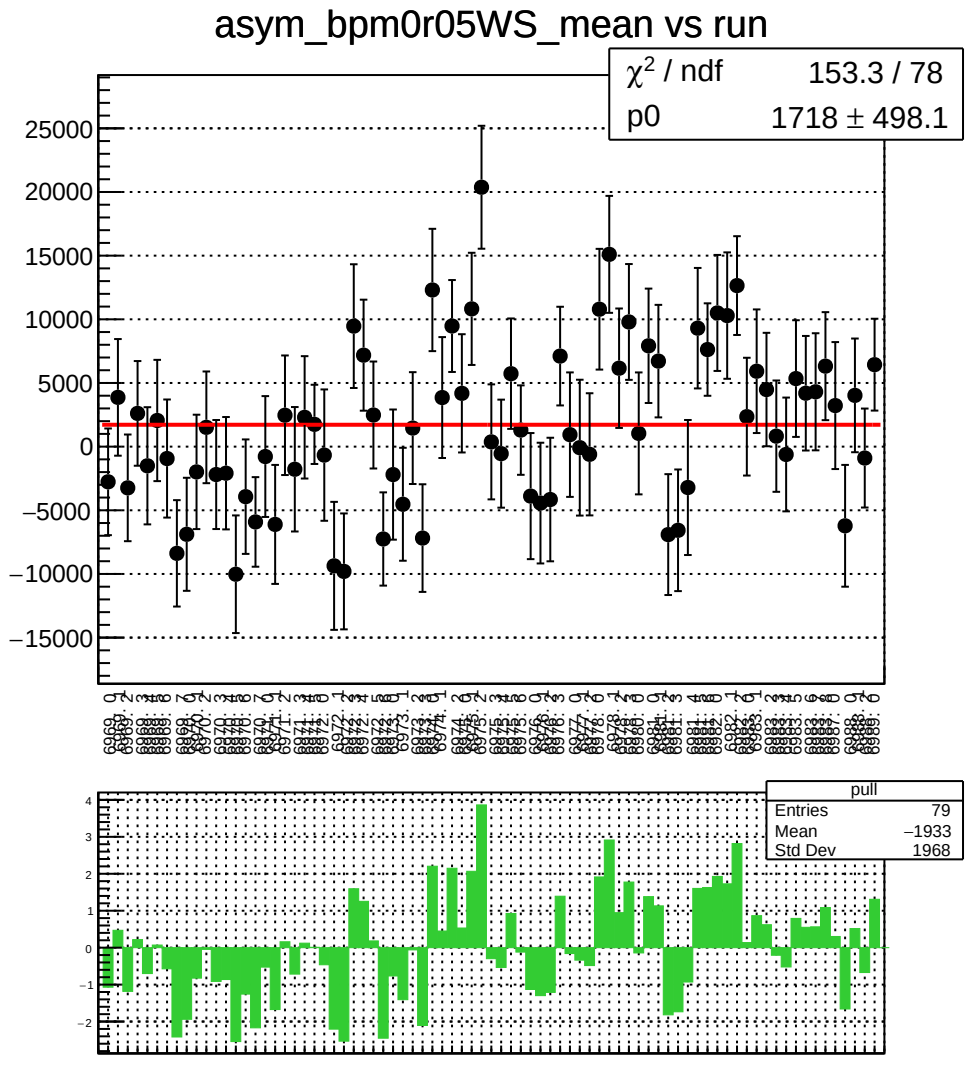

pull1D
Entries 79
Mean 0.06836
Std Dev 1.915
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

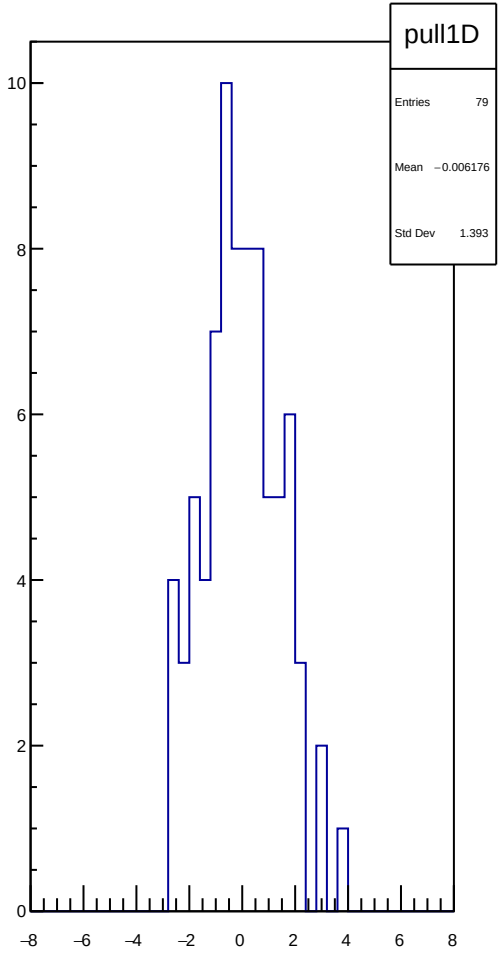

asym_bpm0l10WS_rms vs run
χ² / ndf 1.404e+04 / 78
p0 198.7 ± 0.1598
280
260
240
220
200
180
160

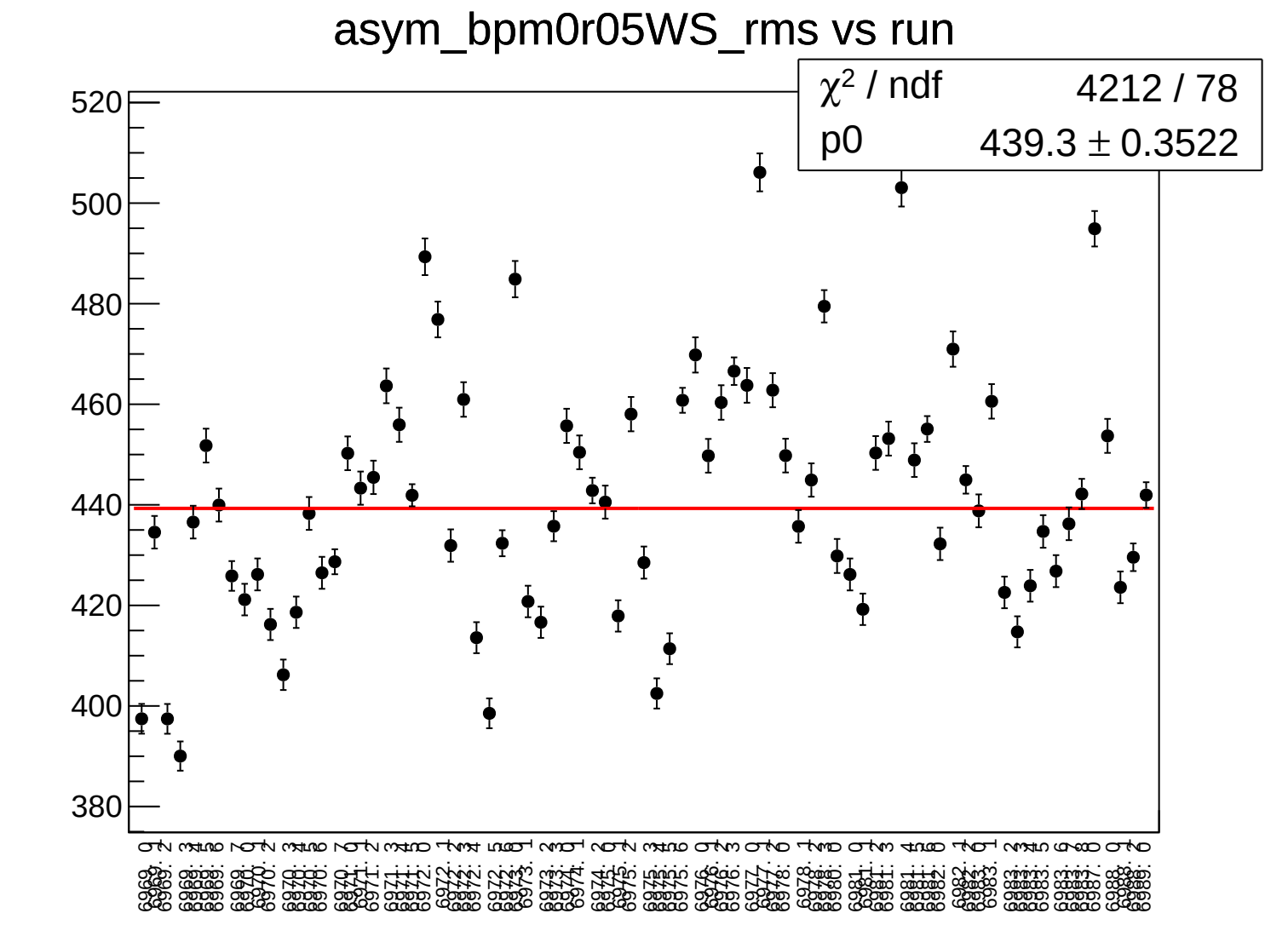

asym_bpm0r03WS_mean vs run
χ² / ndf 207.4 / 78
p0 1509 ± 337.3
15000
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 325.7
Std Dev 286.2
3
2
1
0
−1
−2
−3

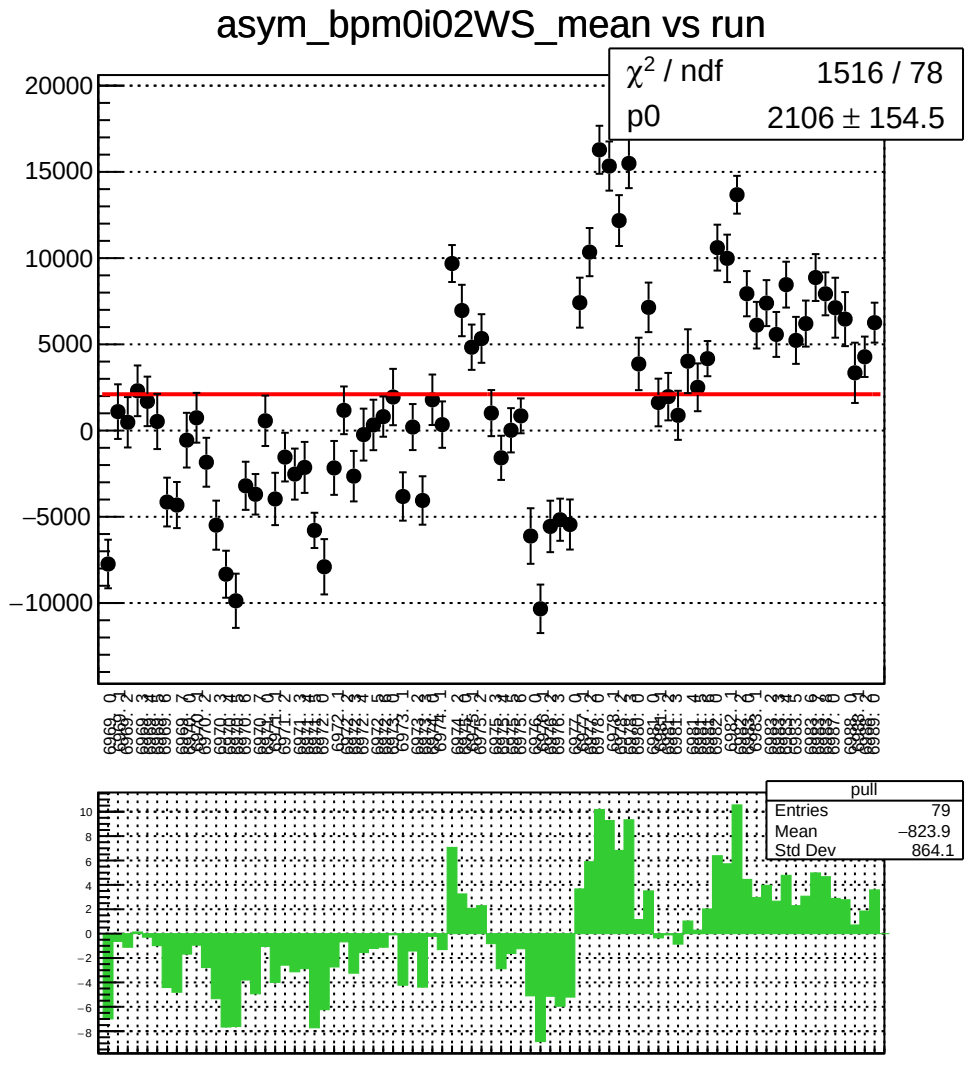

pull1D
Entries 79
Mean 0.06201
Std Dev 1.619
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

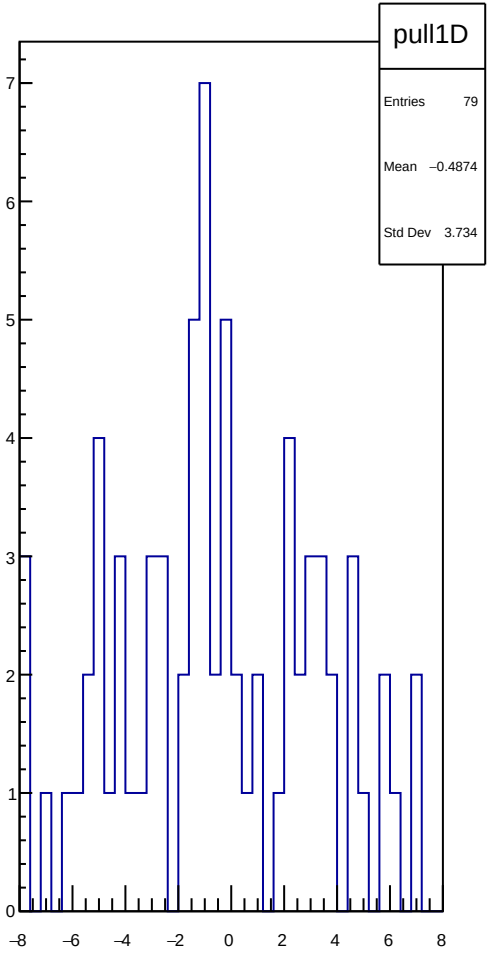

asym_bpm0r03WS_rms vs run
χ² / ndf 2.19e+04 / 78
p0 295.8 ± 0.2385
400
350
300
250
200

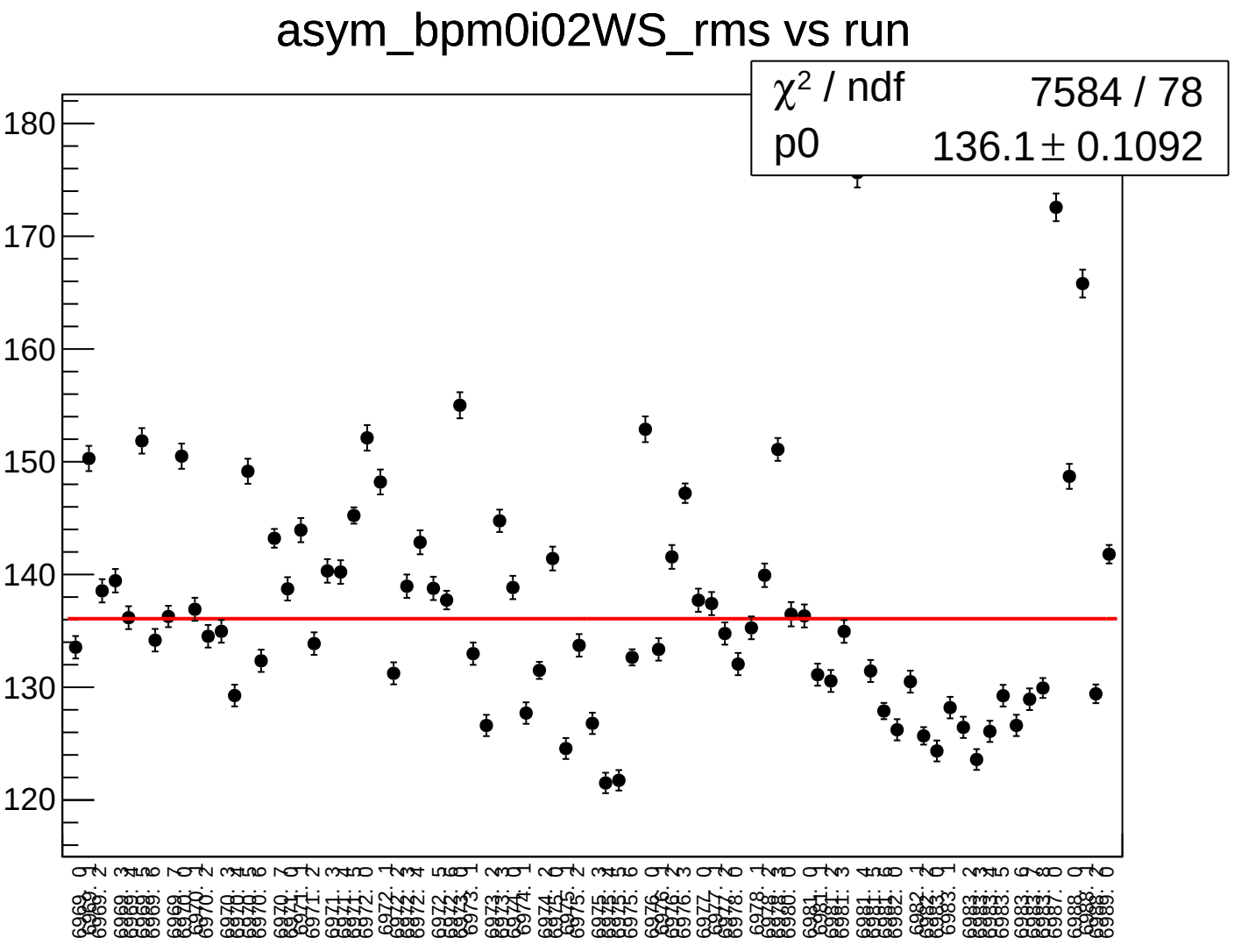

asym_bpm0r05WS_mean vs run
χ² / ndf 153.3 / 78
p0 1718 ± 498.1
pull
Entries 79
Mean −1933
Std Dev 1968

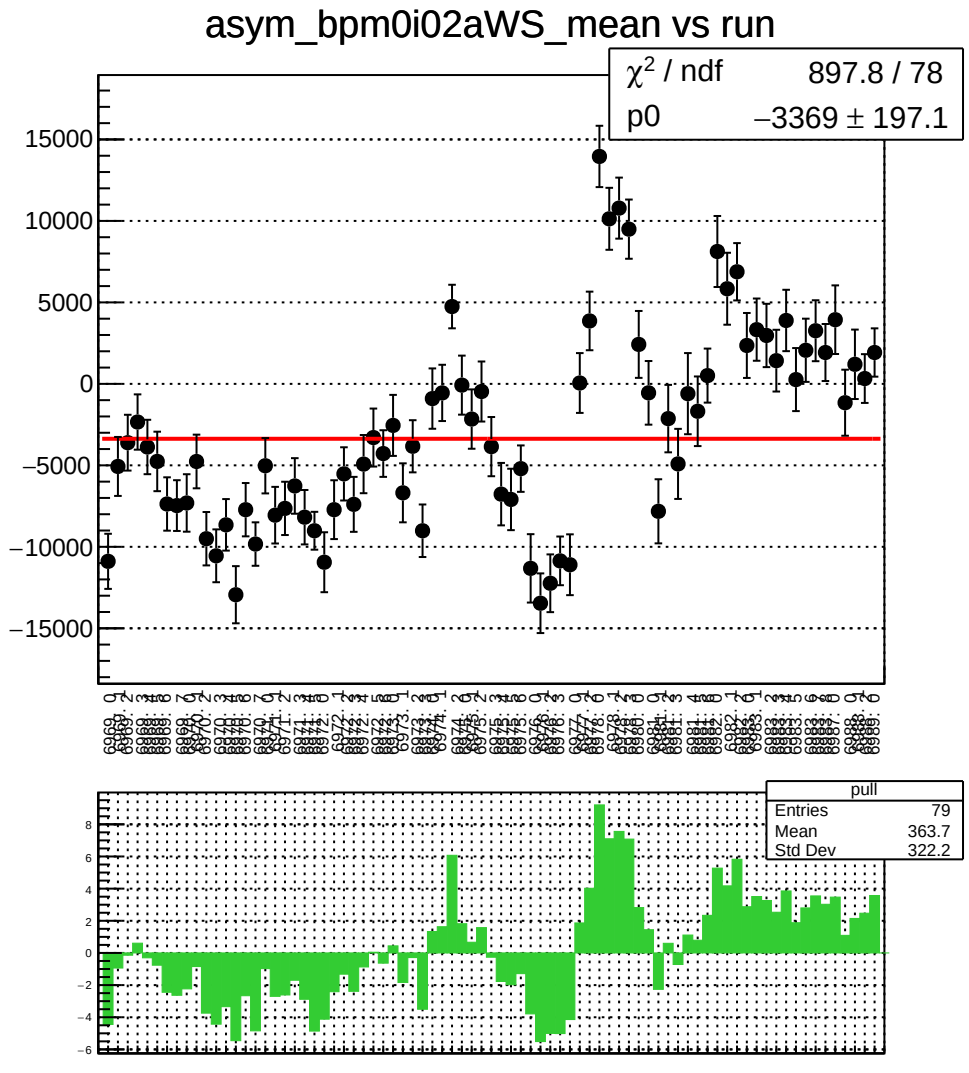

pull1D
Entries 79
Mean −0.006176
Std Dev 1.393

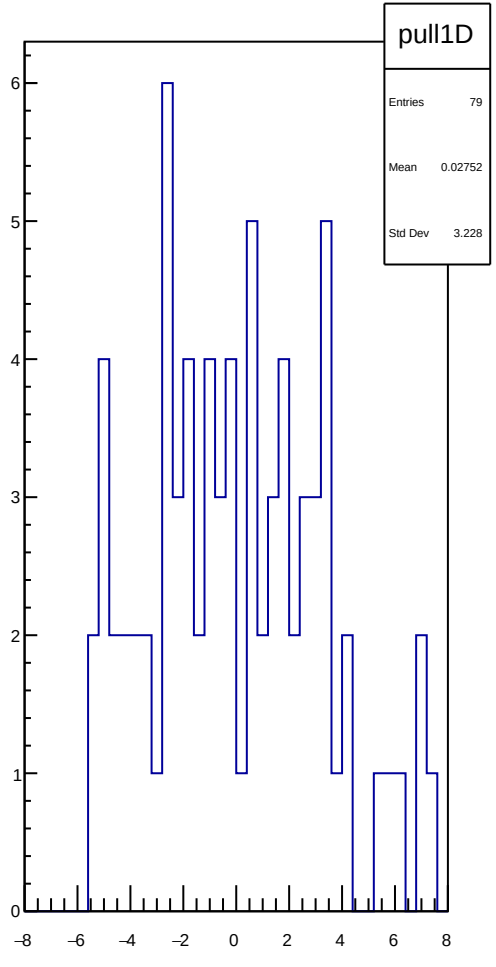

asym_bpm0r05WS_rms vs run
χ² / ndf 4212 / 78
p0 439.3 ± 0.3522
520
500
480
460
440
420
400
380

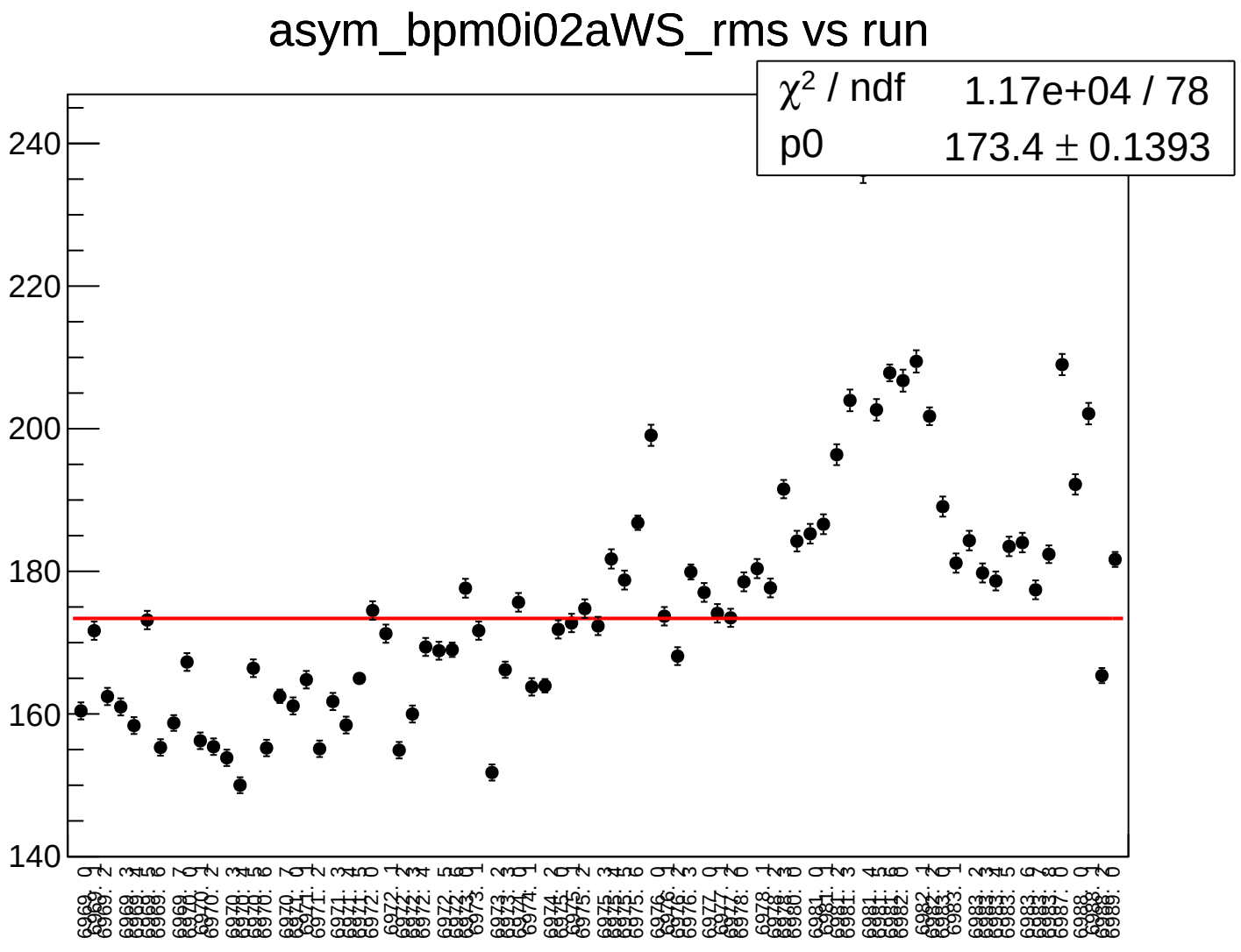

asym_bpm0i02WS_mean vs run
χ² / ndf 1516 / 78
p0 2106 ± 154.5
pull
Entries 79
Mean −823.9
Std Dev 864.1

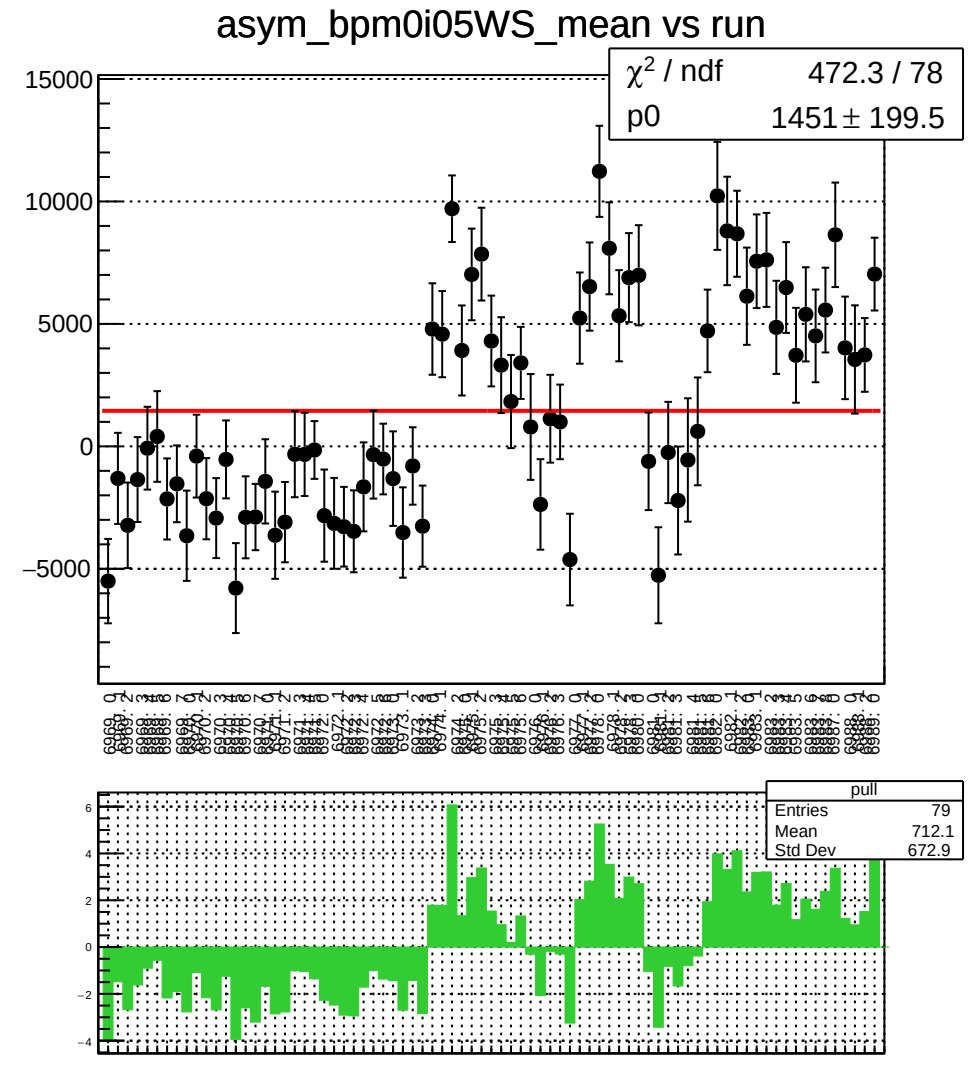

pull1D
Entries 79
Mean −0.4874
Std Dev 3.734

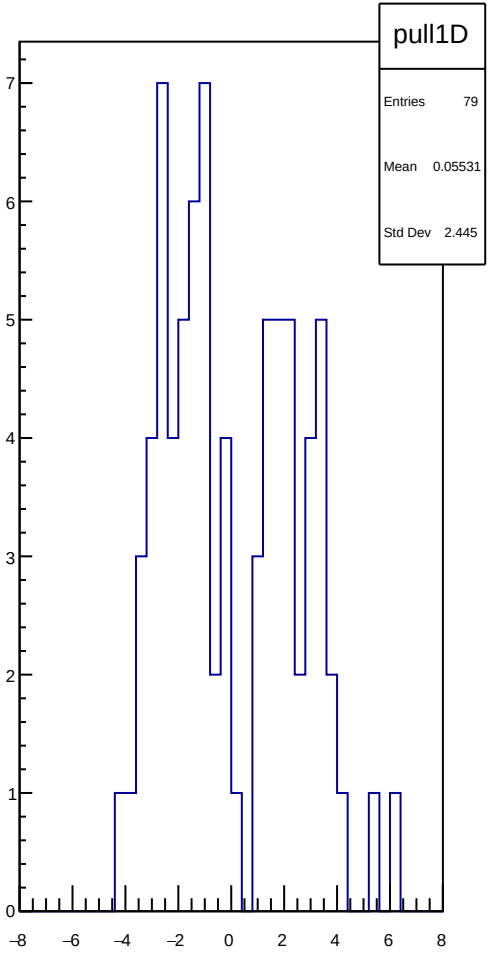

asym_bpm0i02WS_rms vs run
χ² / ndf 7584 / 78
p0 136.1 ± 0.1092
180
170
160
150
140
130
120

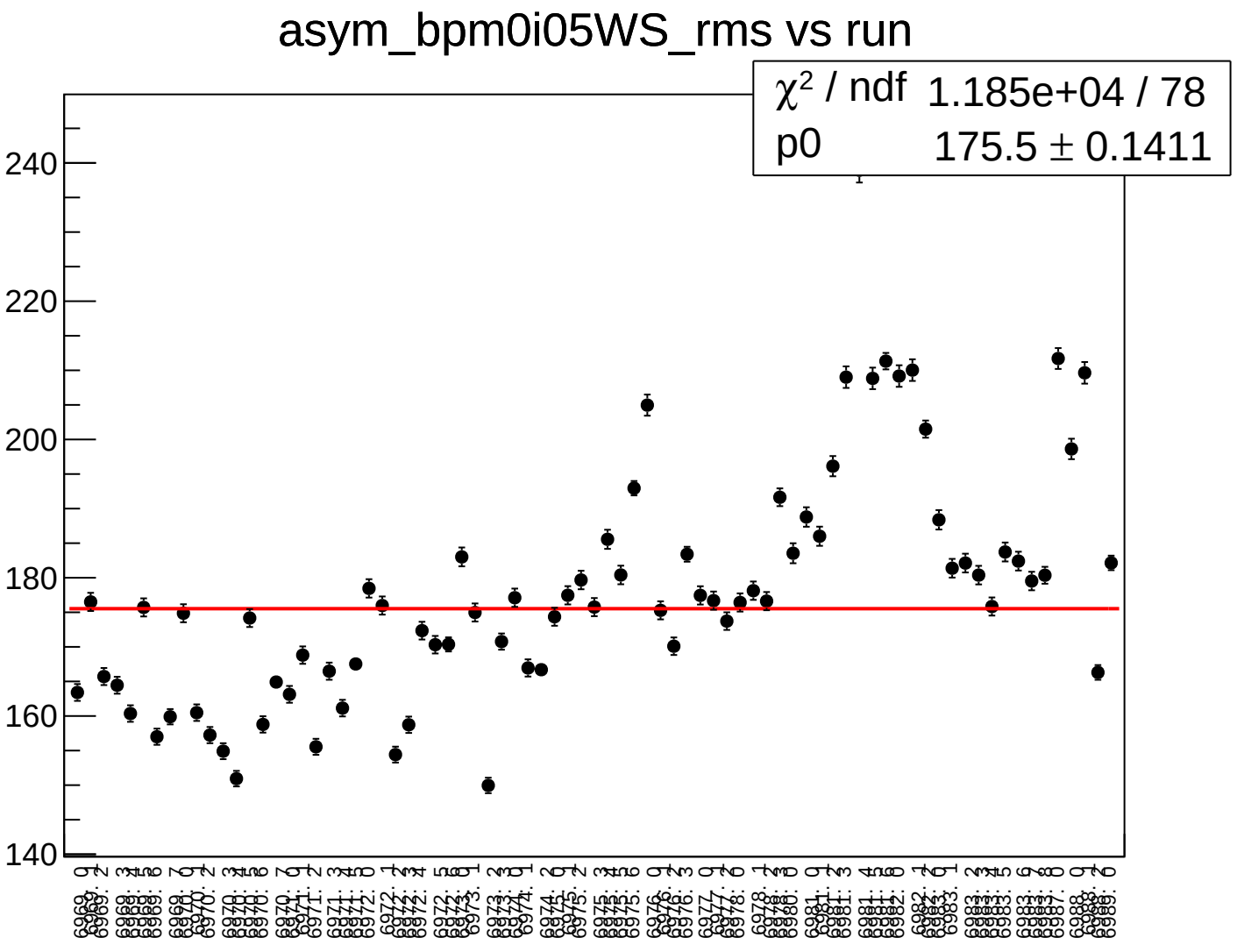

asym_bpm0i02aWS_mean vs run
χ² / ndf 897.8 / 78
p0 −3369 ± 197.1
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 79
Mean 363.7
Std Dev 322.2
8
6
4
2
0
−2
−4
−6

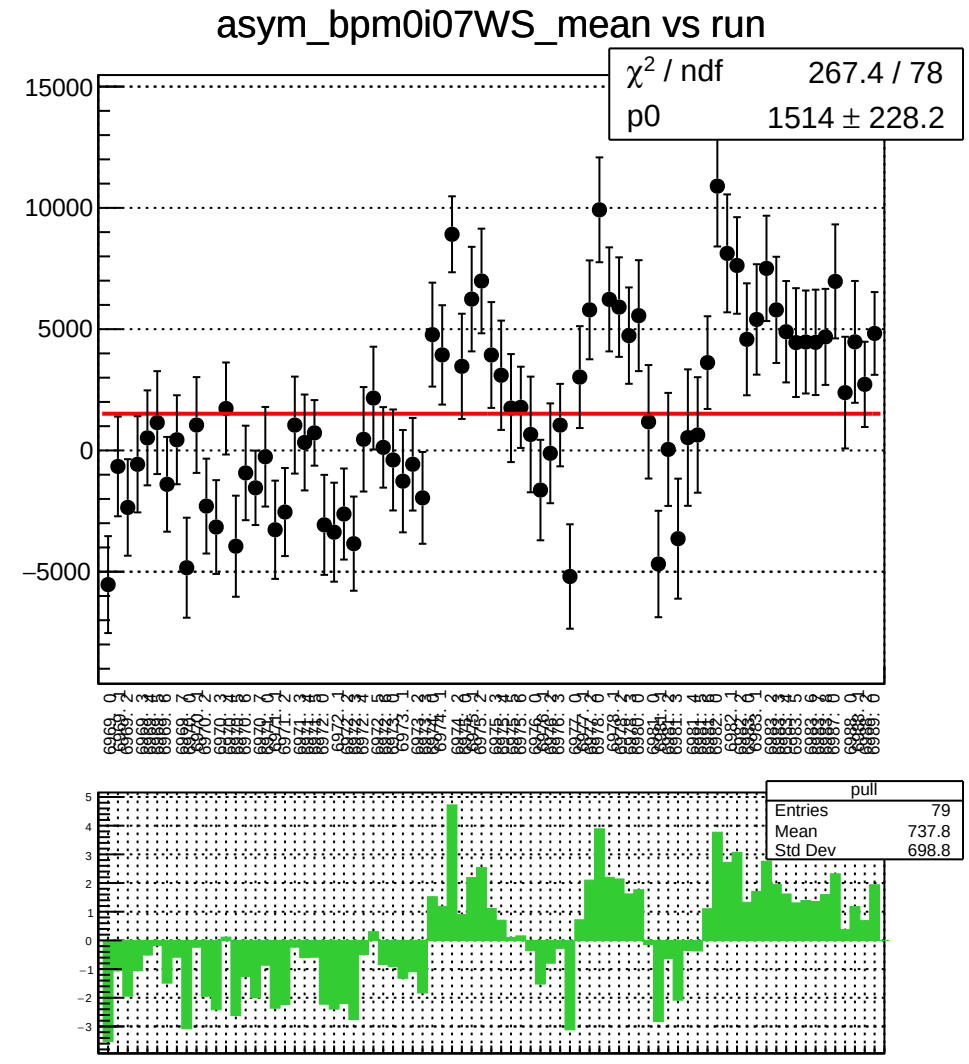

pull1D
Entries 79
Mean 0.02752
Std Dev 3.228
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

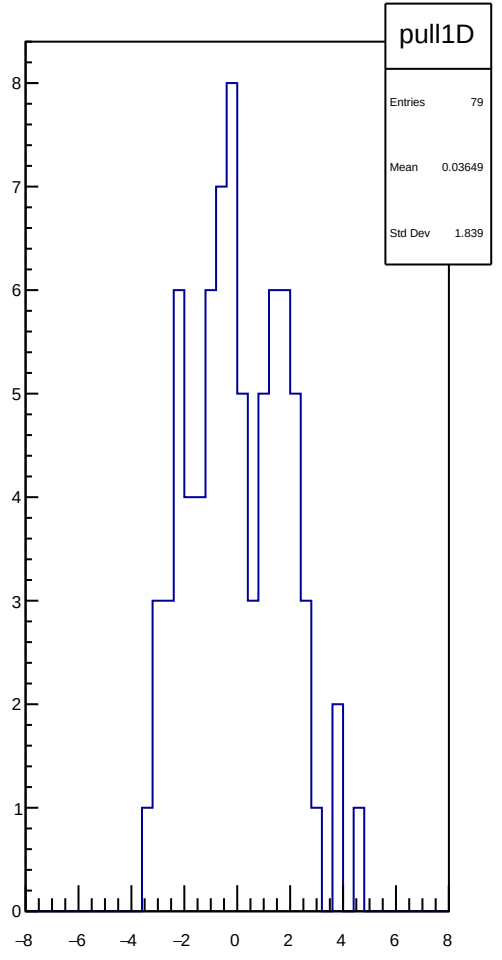

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.17e+04 / 78
p0 173.4 ± 0.1393
240
220
200
180
160
140

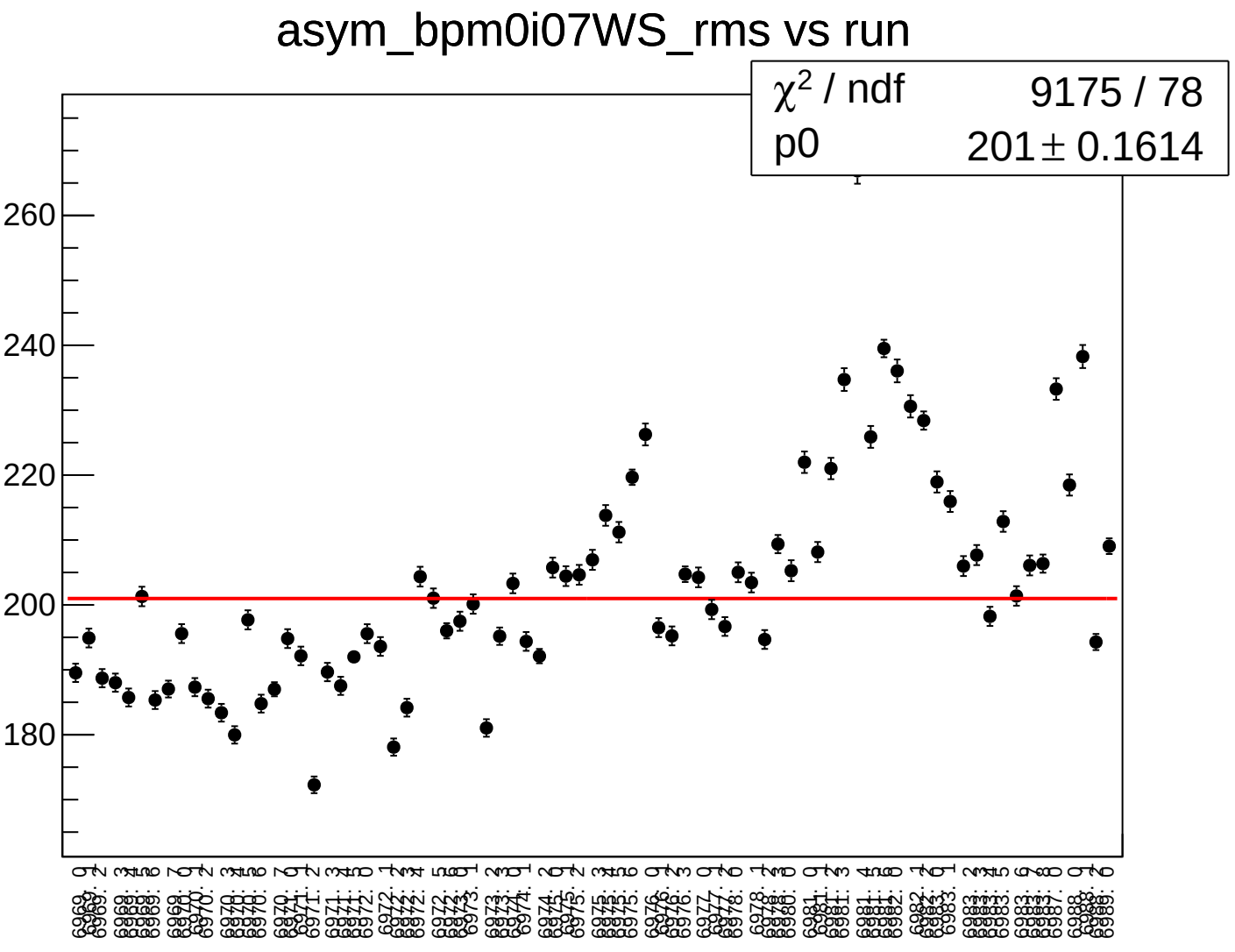

asym_bpm0i05WS_mean vs run
χ² / ndf 472.3 / 78
p0 1451 ± 199.5
15000
10000
5000
0
−5000
pull
Entries 79
Mean 712.1
Std Dev 672.9
6
4
2
0
−2
−4

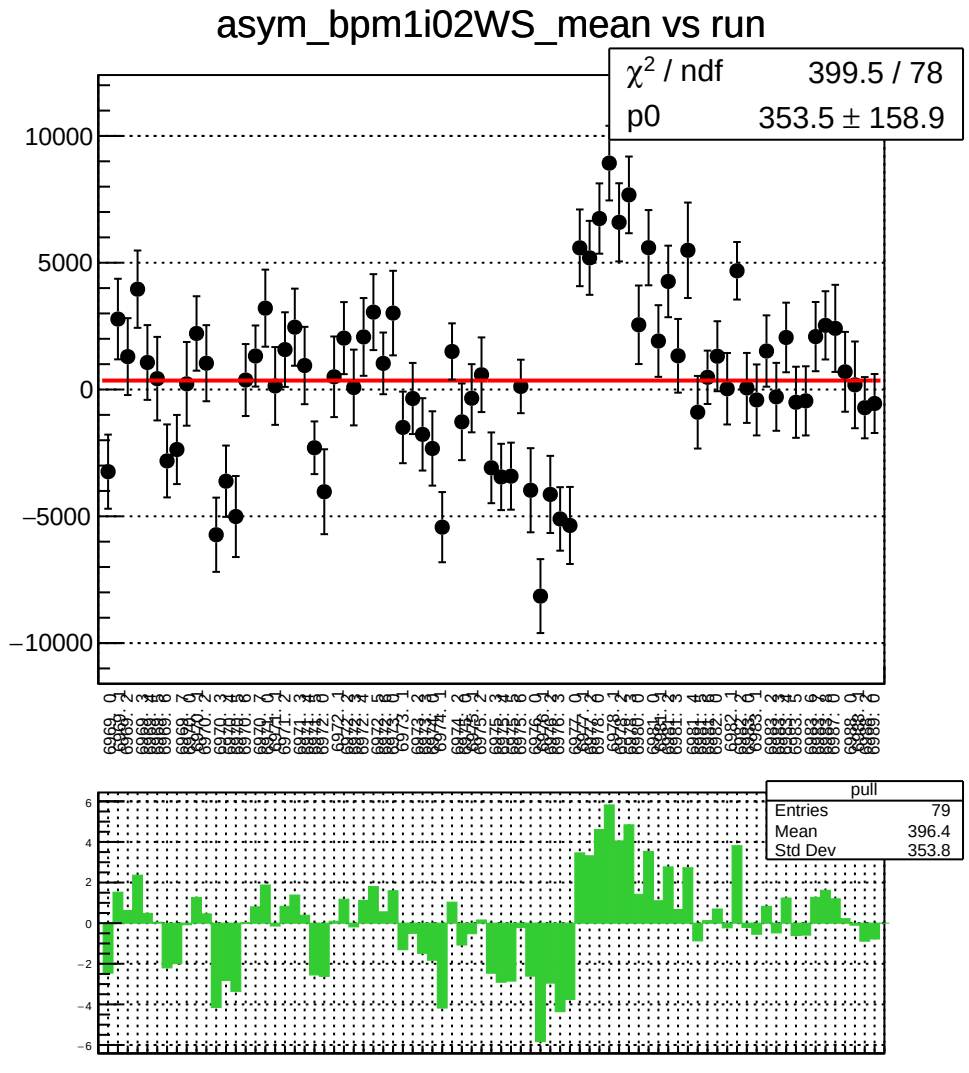

pull1D
Entries 79
Mean 0.05531
Std Dev 2.445
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

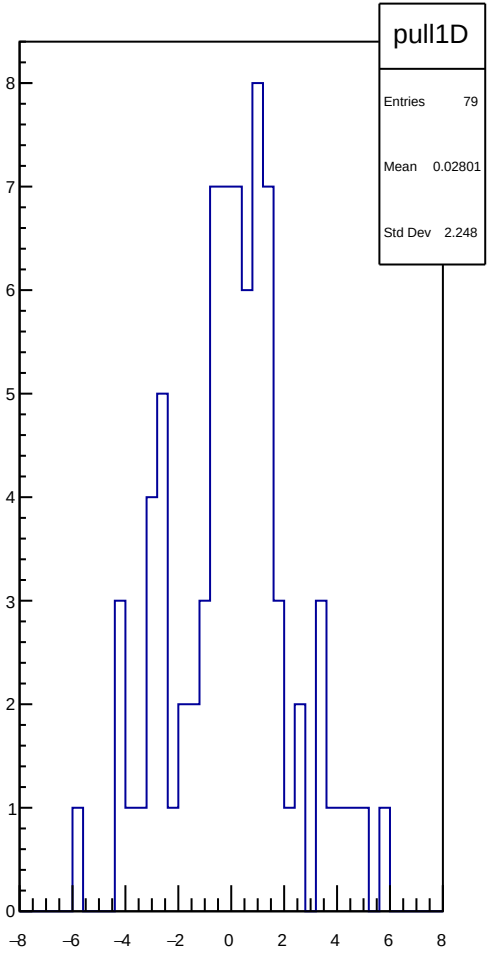

asym_bpm0i05WS_rms vs run
χ² / ndf 1.185e+04 / 78
p0 175.5 ± 0.1411
240
220
200
180
160
140

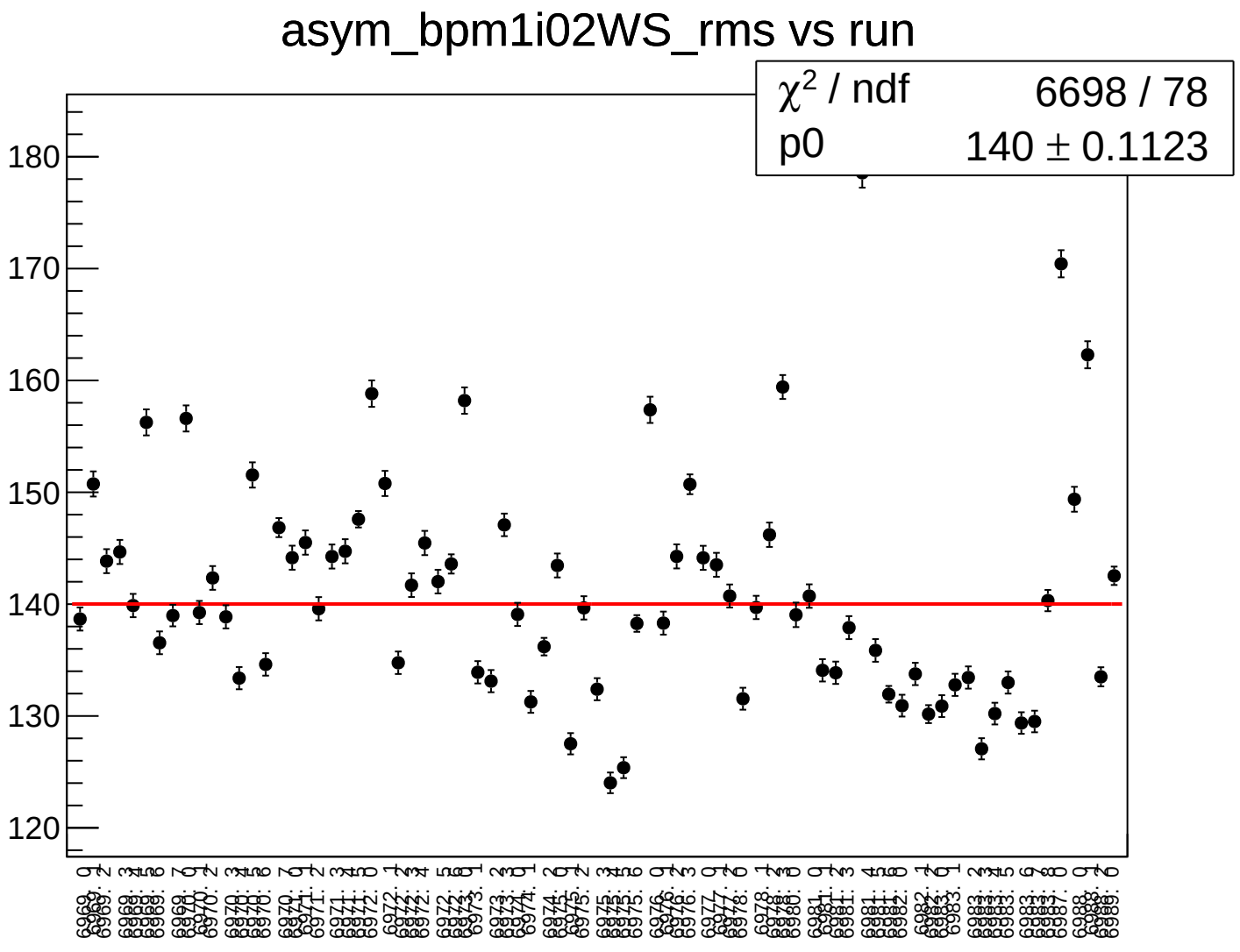

asym_bpm0i07WS_mean vs run
χ² / ndf 267.4 / 78
p0 1514 ± 228.2
15000
10000
5000
0
−5000
pull
Entries 79
Mean 737.8
Std Dev 698.8

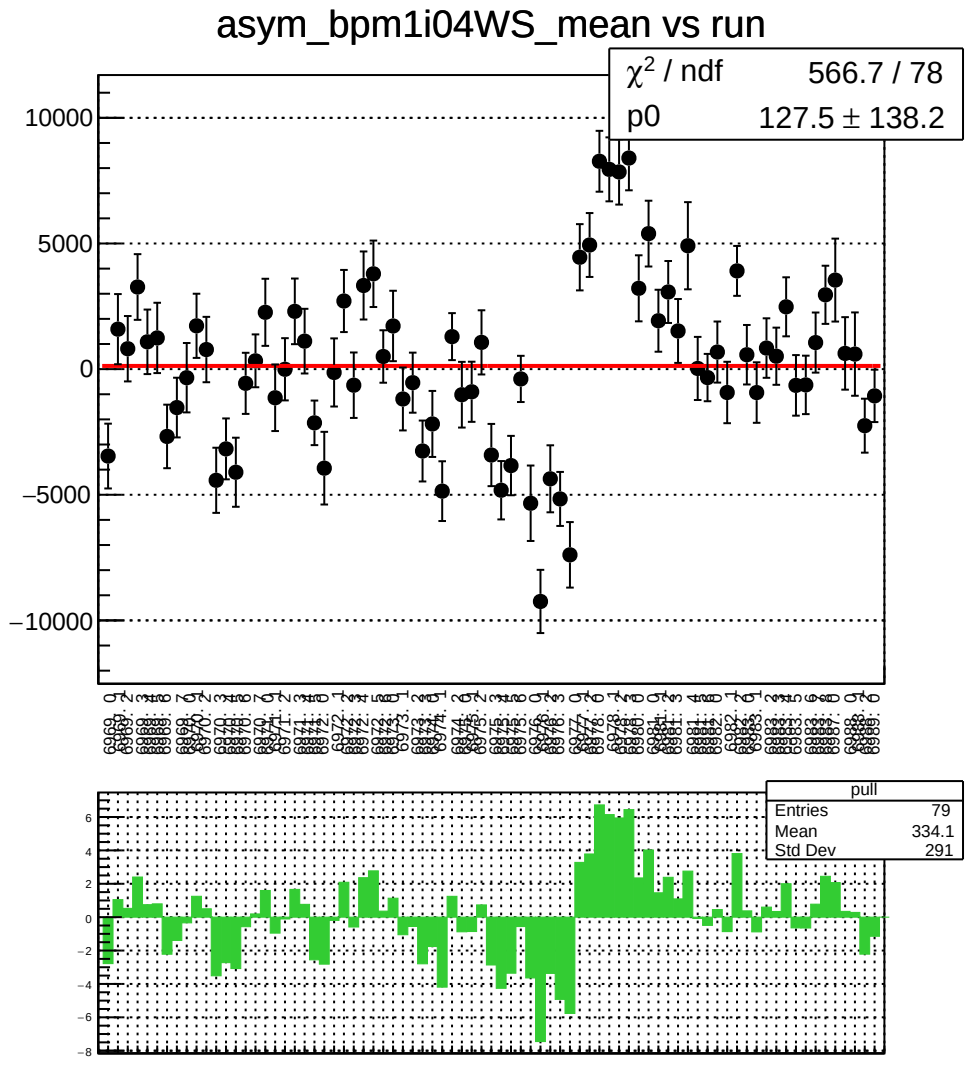

pull1D
Entries 79
Mean 0.03649
Std Dev 1.839

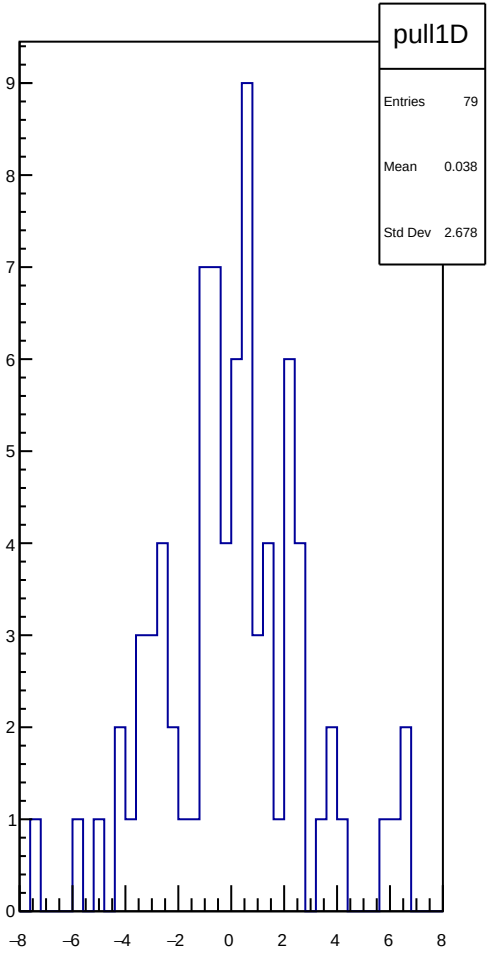

asym_bpm0i07WS_rms vs run
χ² / ndf 9175 / 78
p0 201 ± 0.1614
260
240
220
200
180

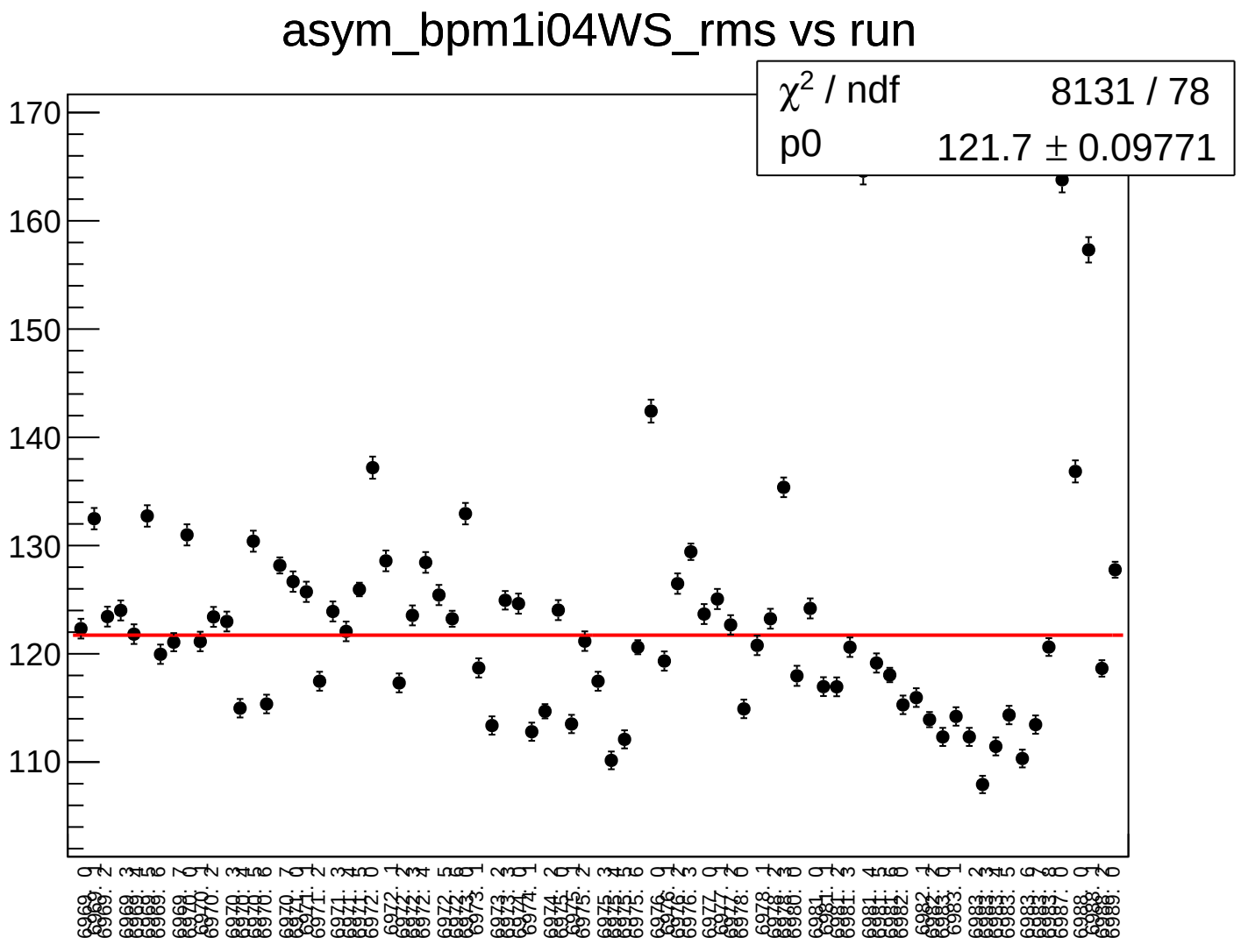

asym_bpm1i02WS_mean vs run
χ² / ndf 399.5 / 78
p0 353.5 ± 158.9
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 396.4
Std Dev 353.8
6
4
2
0
−2
−4
−6

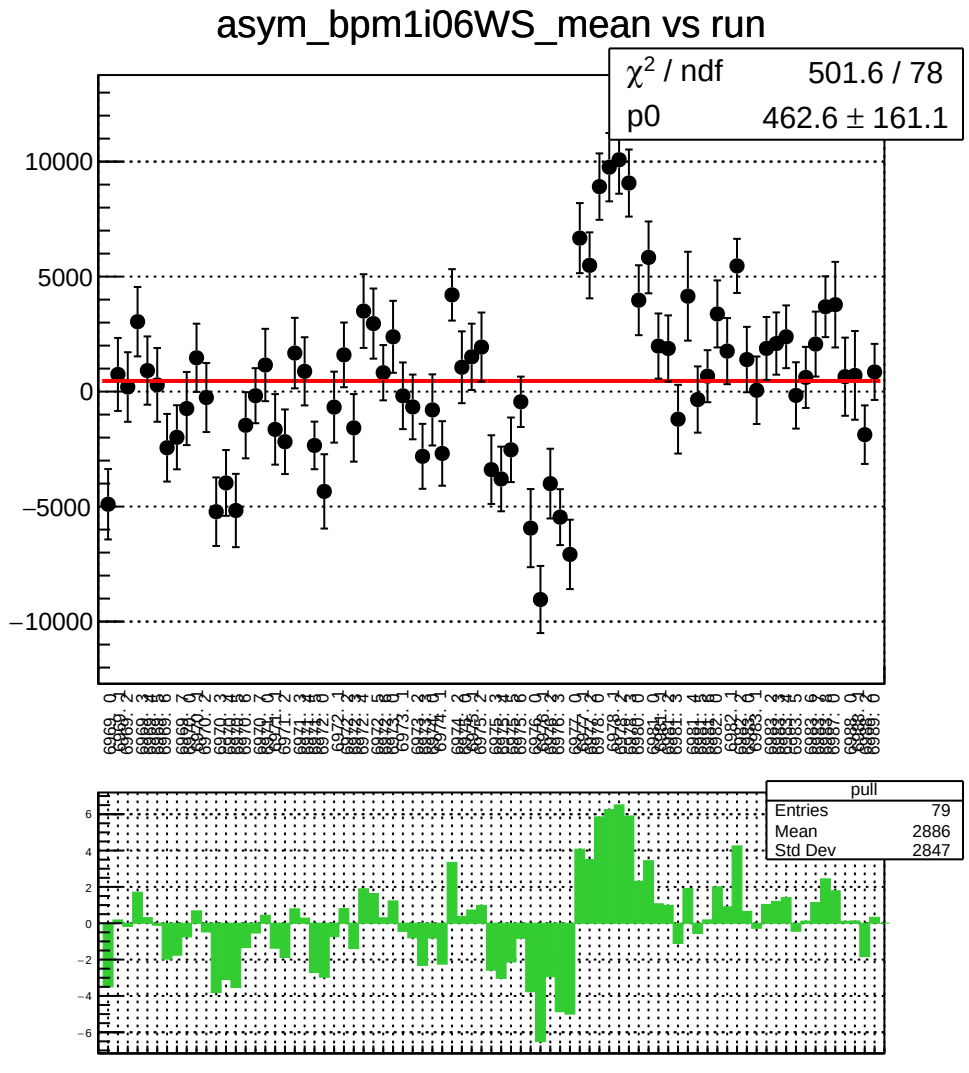

pull1D
Entries 79
Mean 0.02801
Std Dev 2.248
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

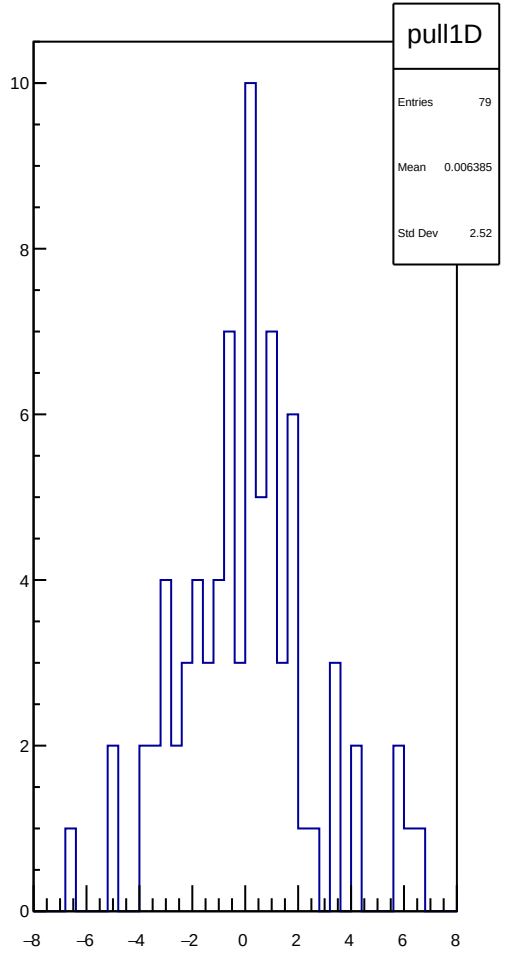

asym_bpm1i02WS_rms vs run
χ^2 / ndf 6698 / 78
p0 140 ± 0.1123
180
170
160
150
140
130
120

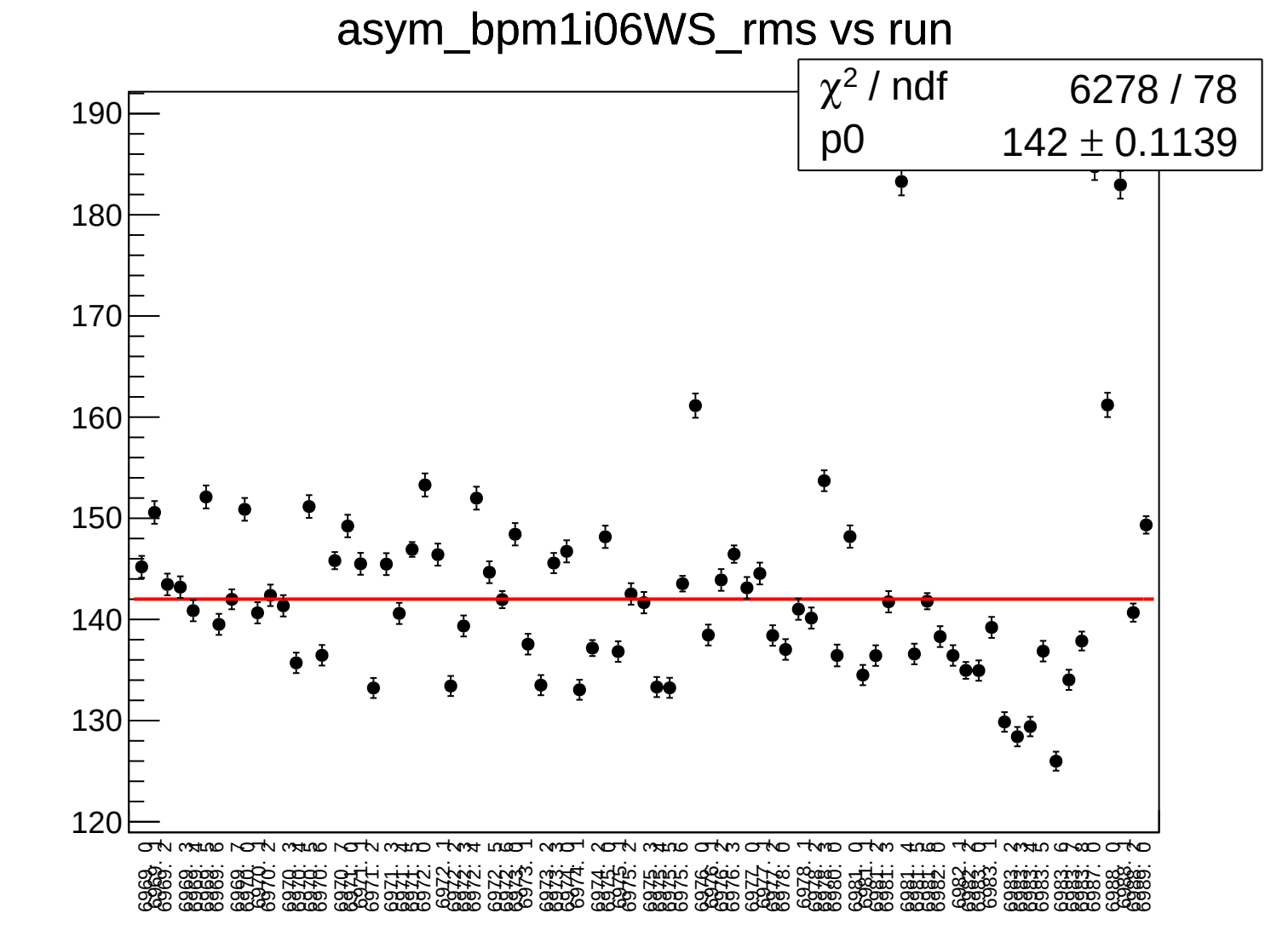

asym_bpm1i04WS_mean vs run
χ² / ndf 566.7 / 78
p0 127.5 ± 138.2
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 334.1
Std Dev 291
6
4
2
0
−2
−4
−6
−8

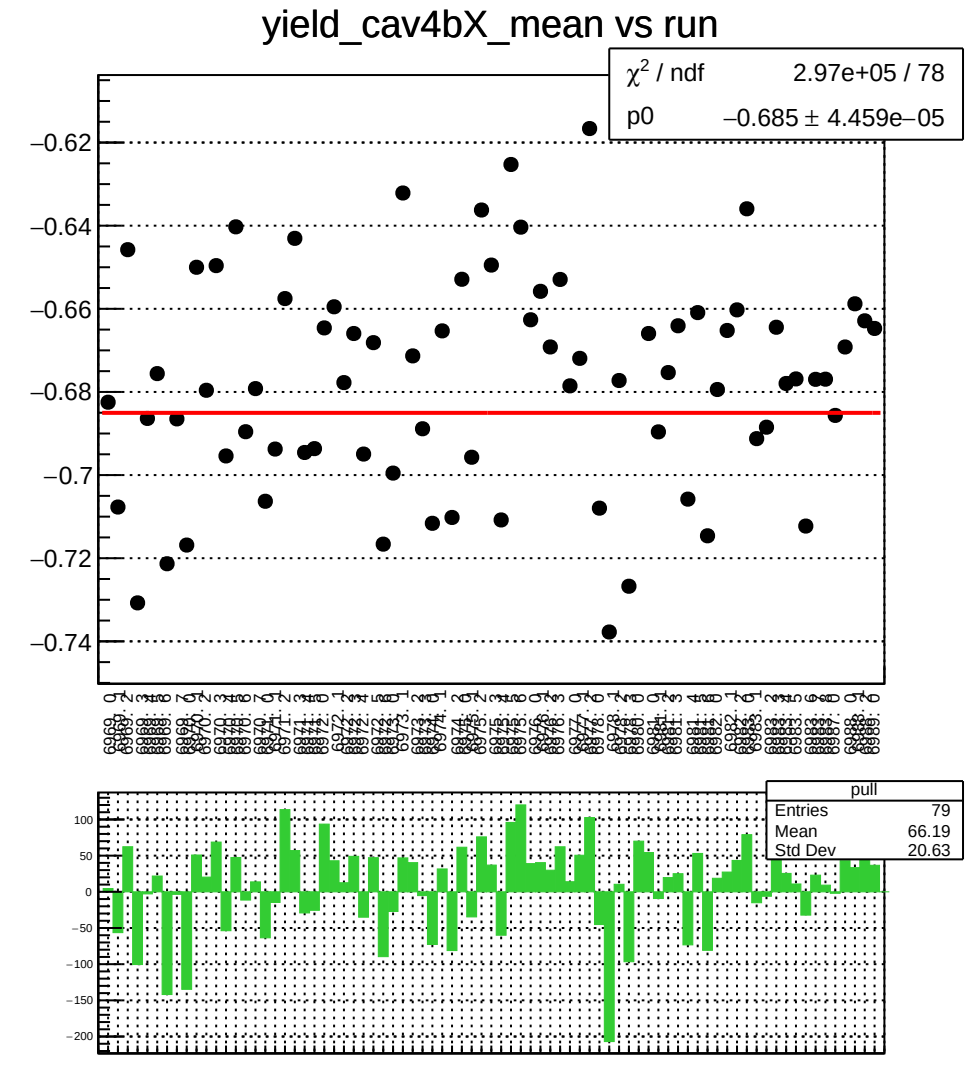

pull1D
Entries 79
Mean 0.038
Std Dev 2.678
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

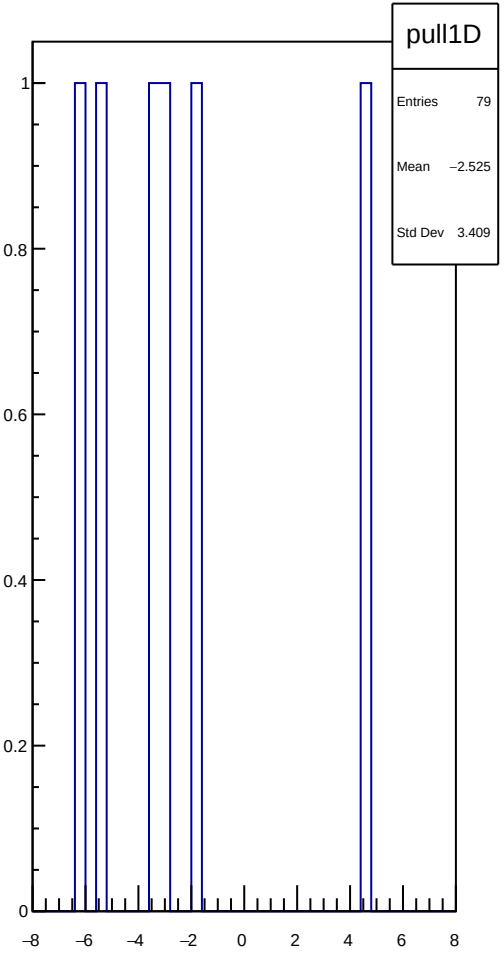

asym_bpm1i04WS_rms vs run
χ² / ndf 8131 / 78
p0 121.7 ± 0.09771
170
160
150
140
130
120
110

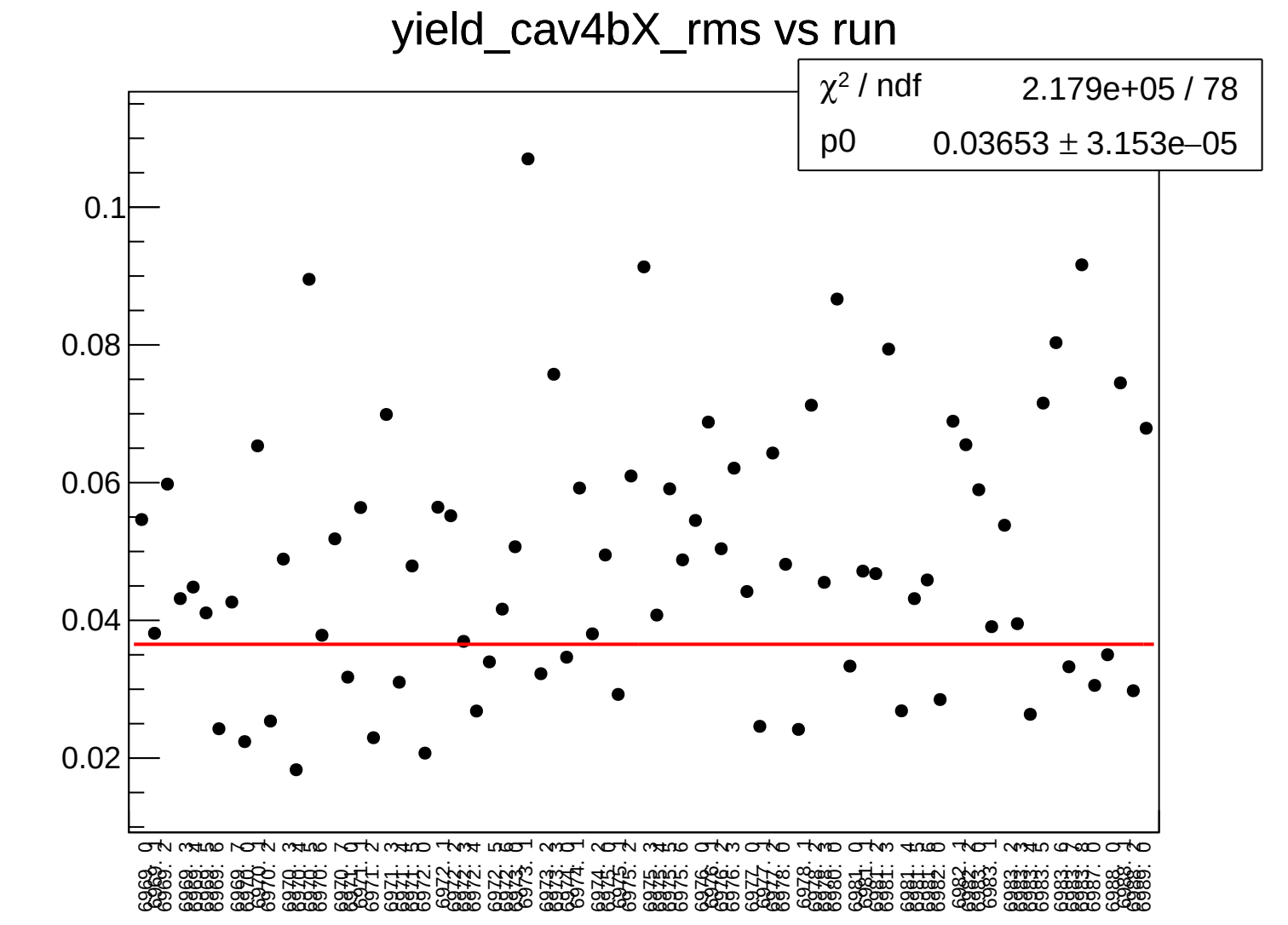

asym_bpm1i06WS_mean vs run
χ² / ndf 501.6 / 78
p0 462.6 ± 161.1
10000
5000
0
−5000
−10000
pull
Entries 79
Mean 2886
Std Dev 2847
6
4
2
0
−2
−4
−6

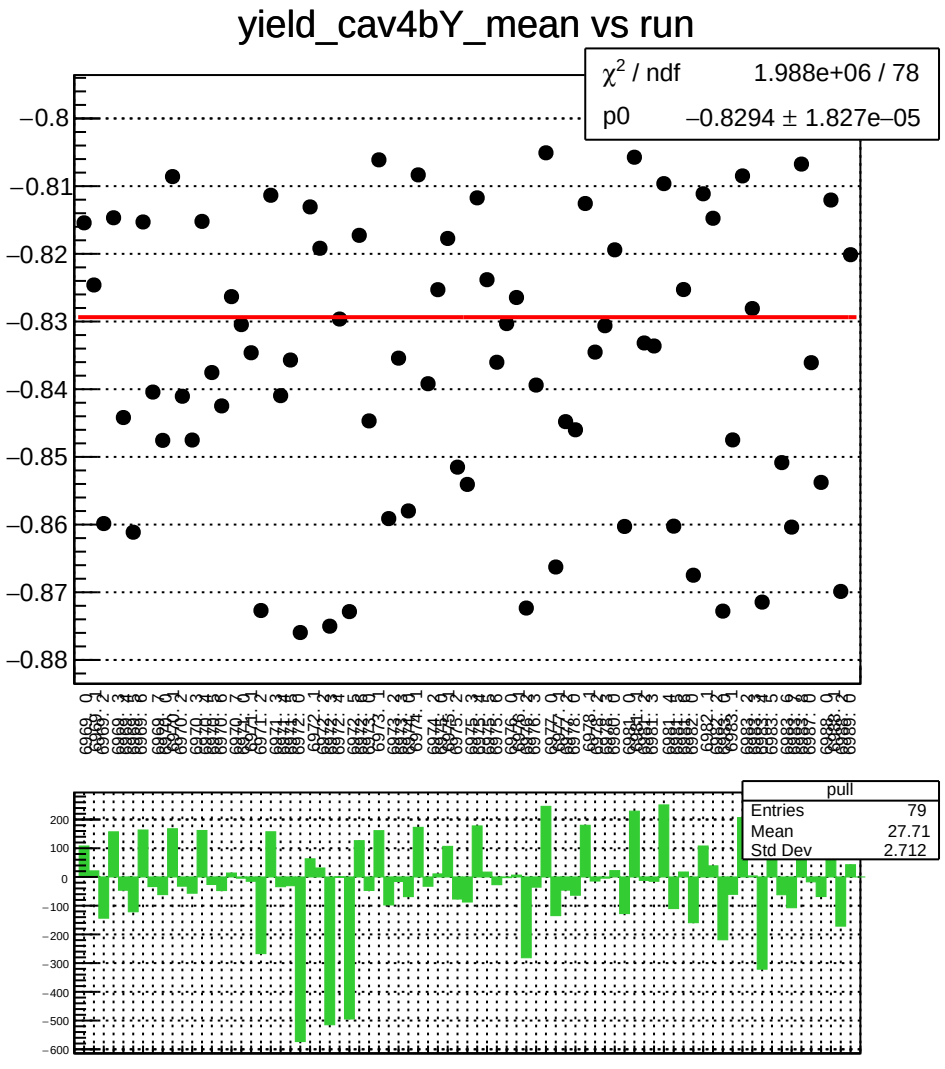

pull1D
Entries 79
Mean 0.006385
Std Dev 2.52
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

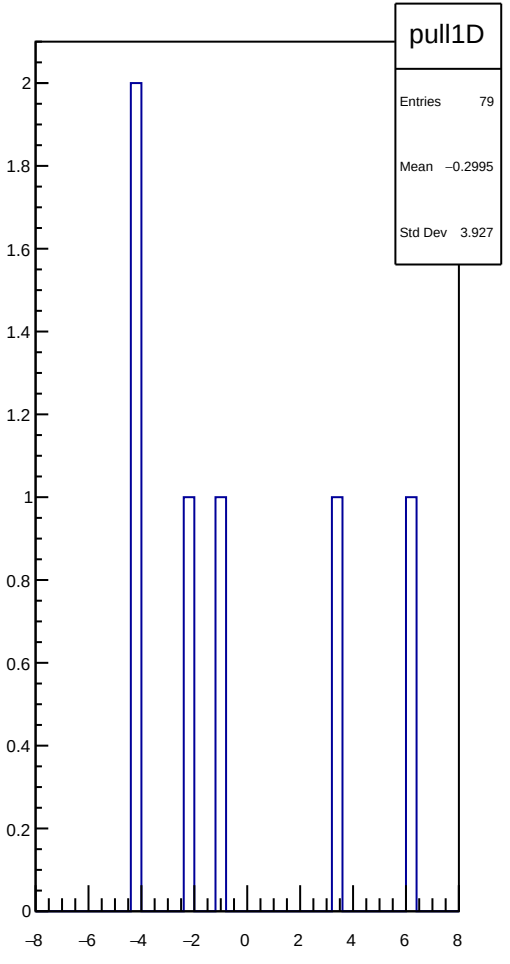

asym_bpm1i06WS_rms vs run
χ² / ndf 6278 / 78
p0 142 ± 0.1139
190
180
170
160
150
140
130
120

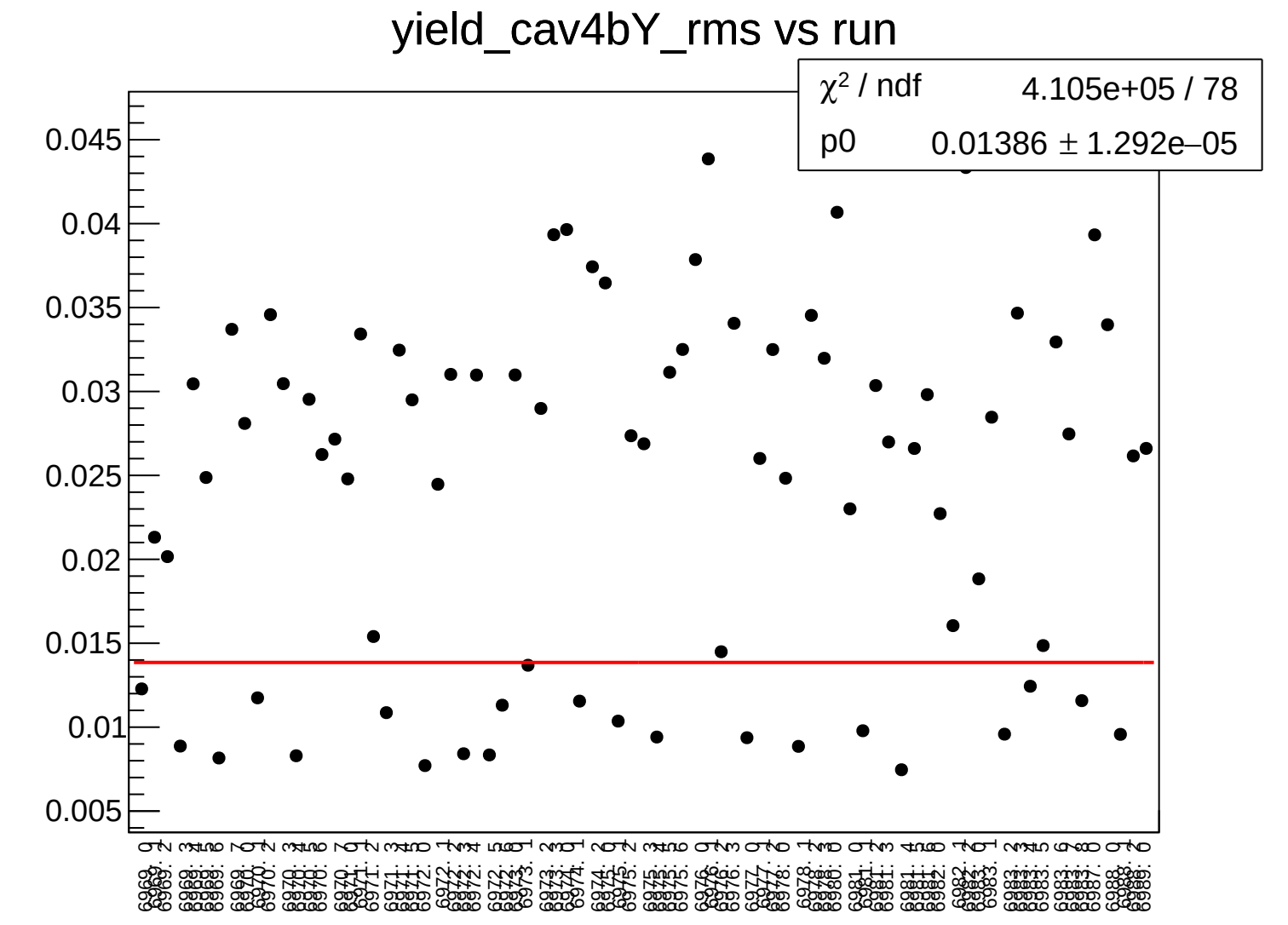

yield_cav4bX_mean vs run
χ² / ndf 2.97e+05 / 78
p0 −0.685 ± 4.459e−05
−0.62
−0.64
−0.66
−0.68
−0.7
−0.72
−0.74
pull
Entries 79
Mean 66.19
Std Dev 20.63
100
50
0
−50
−100
−150
−200

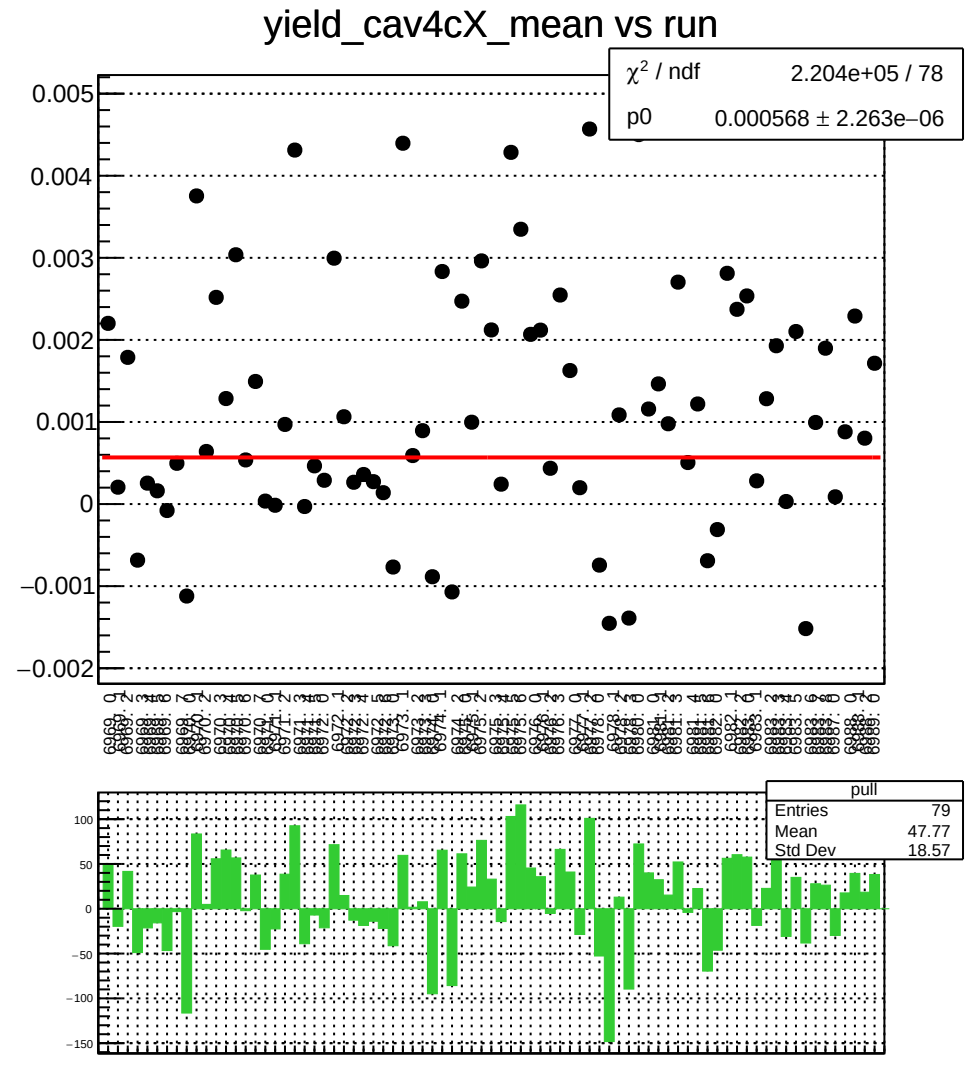

pull1D
Entries 79
Mean −2.525
Std Dev 3.409
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

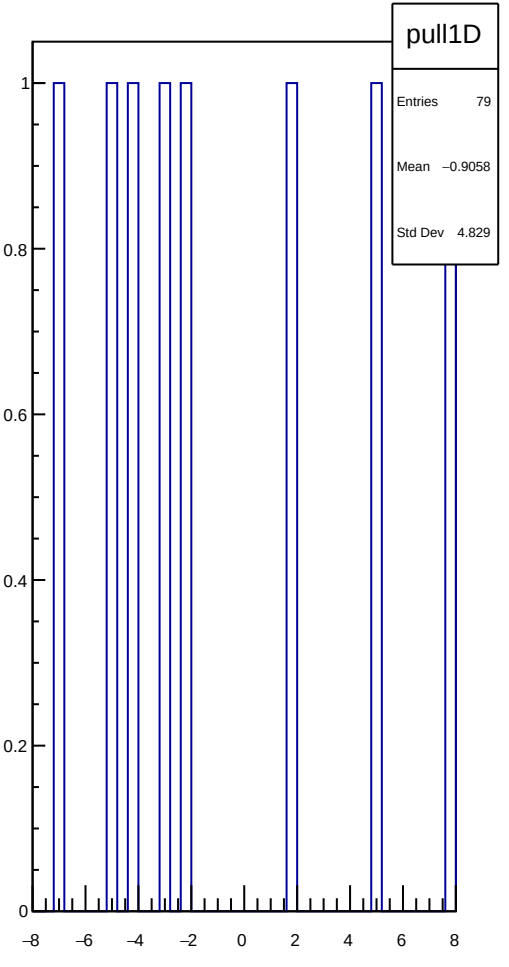

yield_cav4bX_rms vs run
χ² / ndf 2.179e+05 / 78
p0 0.03653 ± 3.153e−05
0.1
0.08
0.06
0.04
0.02

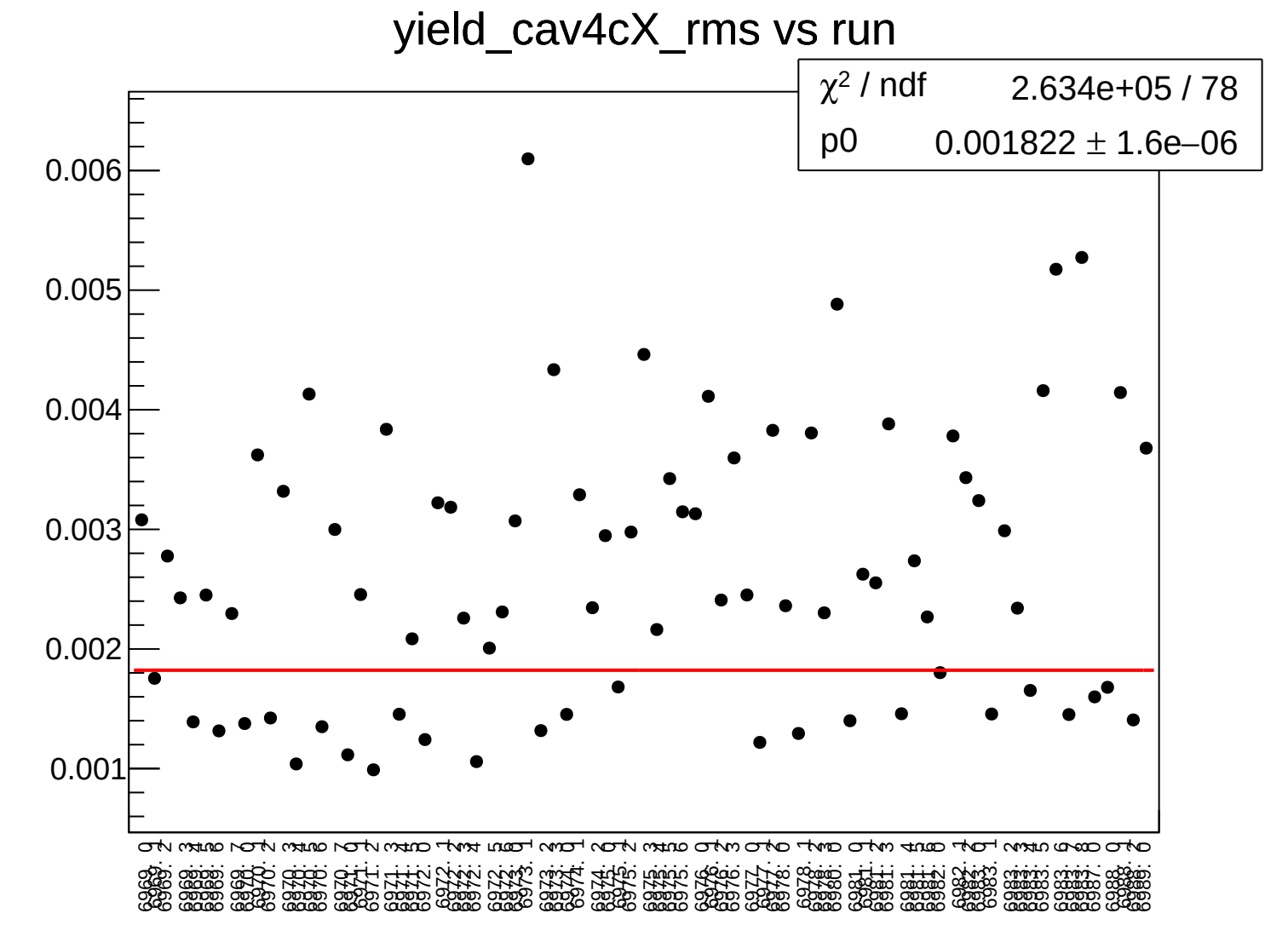

yield_cav4bY_mean vs run
χ² / ndf 1.988e+06 / 78
p0 −0.8294 ± 1.827e−05
pull
Entries 79
Mean 27.71
Std Dev 2.712

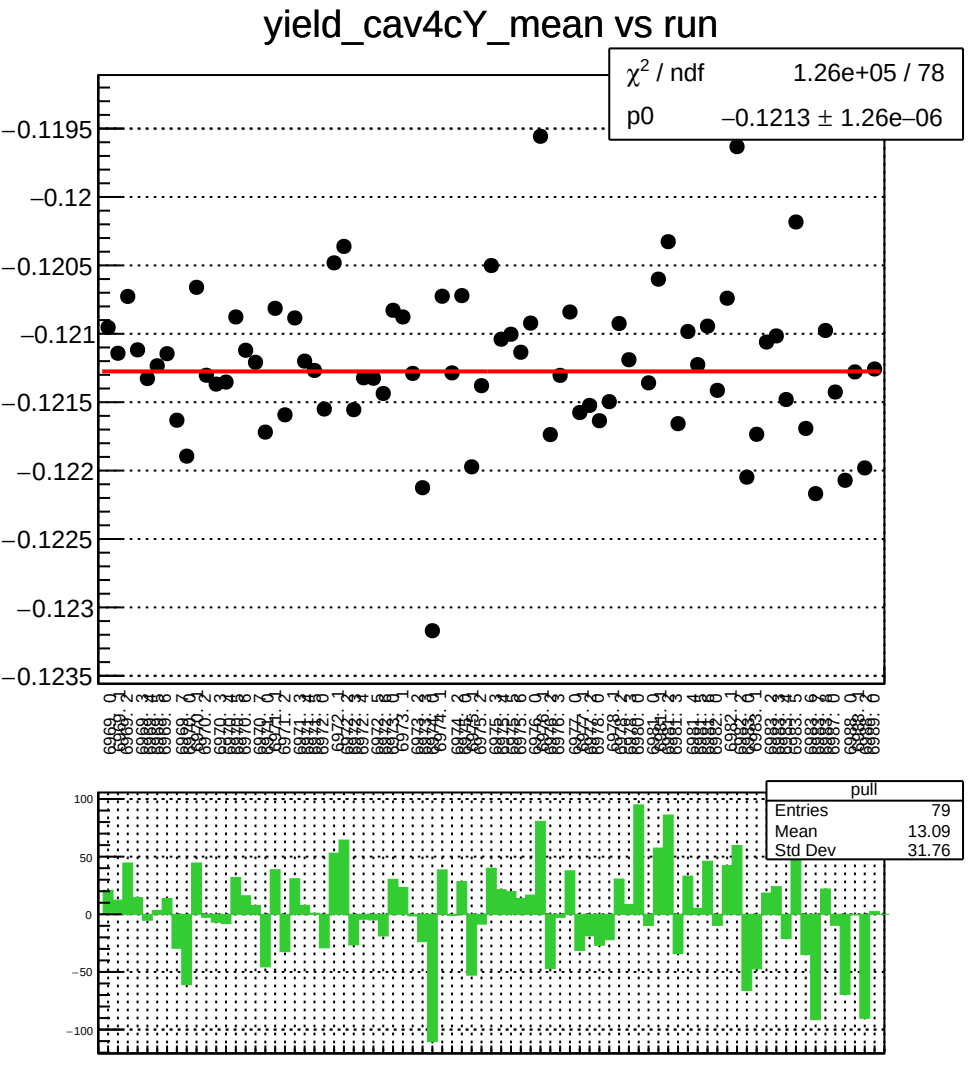

pull1D
Entries 79
Mean −0.2995
Std Dev 3.927

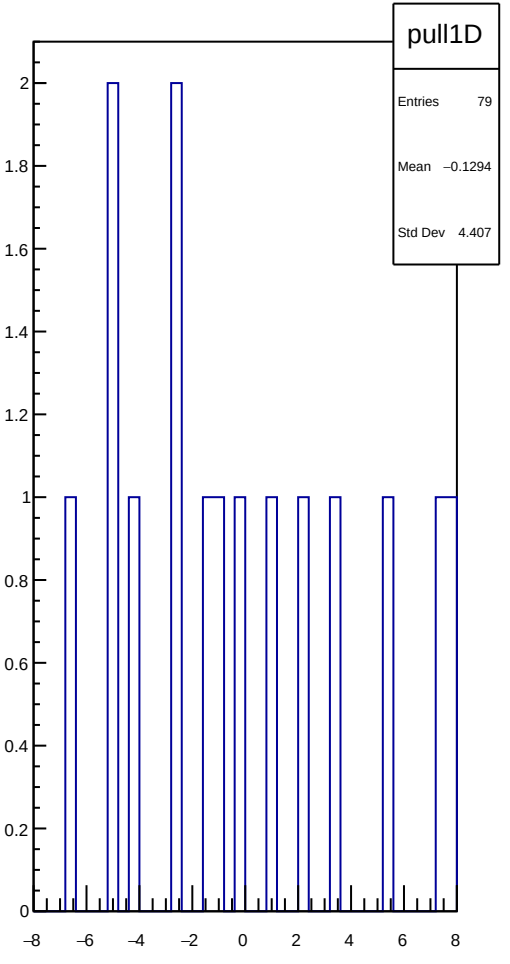

yield_cav4bY_rms vs run
χ² / ndf 4.105e+05 / 78
p0 0.01386 ± 1.292e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

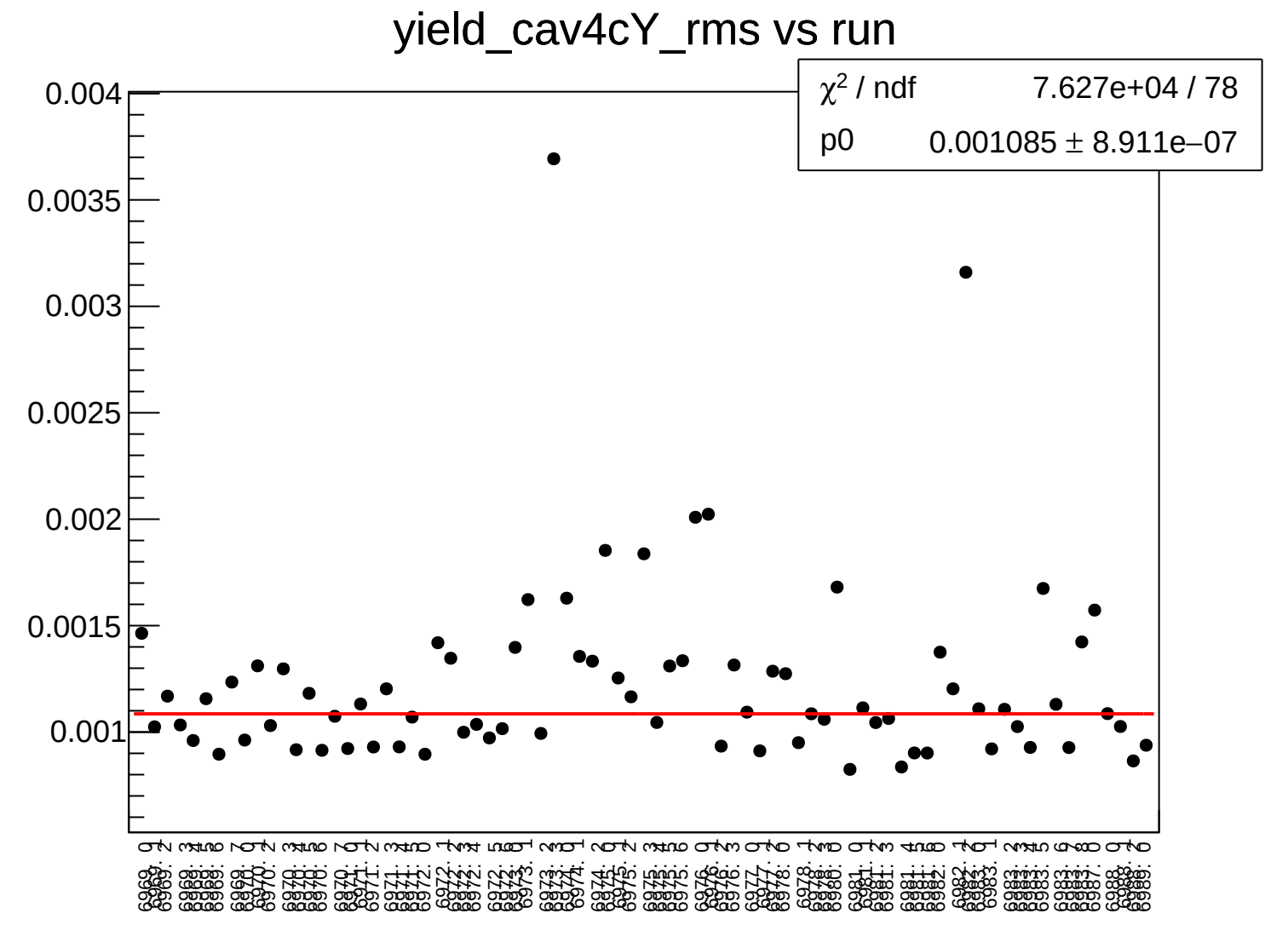

yield_cav4cX_mean vs run
χ² / ndf 2.204e+05 / 78
p0 0.000568 ± 2.263e−06
0.005
0.004
0.003
0.002
0.001
0
−0.001
−0.002
pull
Entries 79
Mean 47.77
Std Dev 18.57
100
50
0
−50
−100
−150

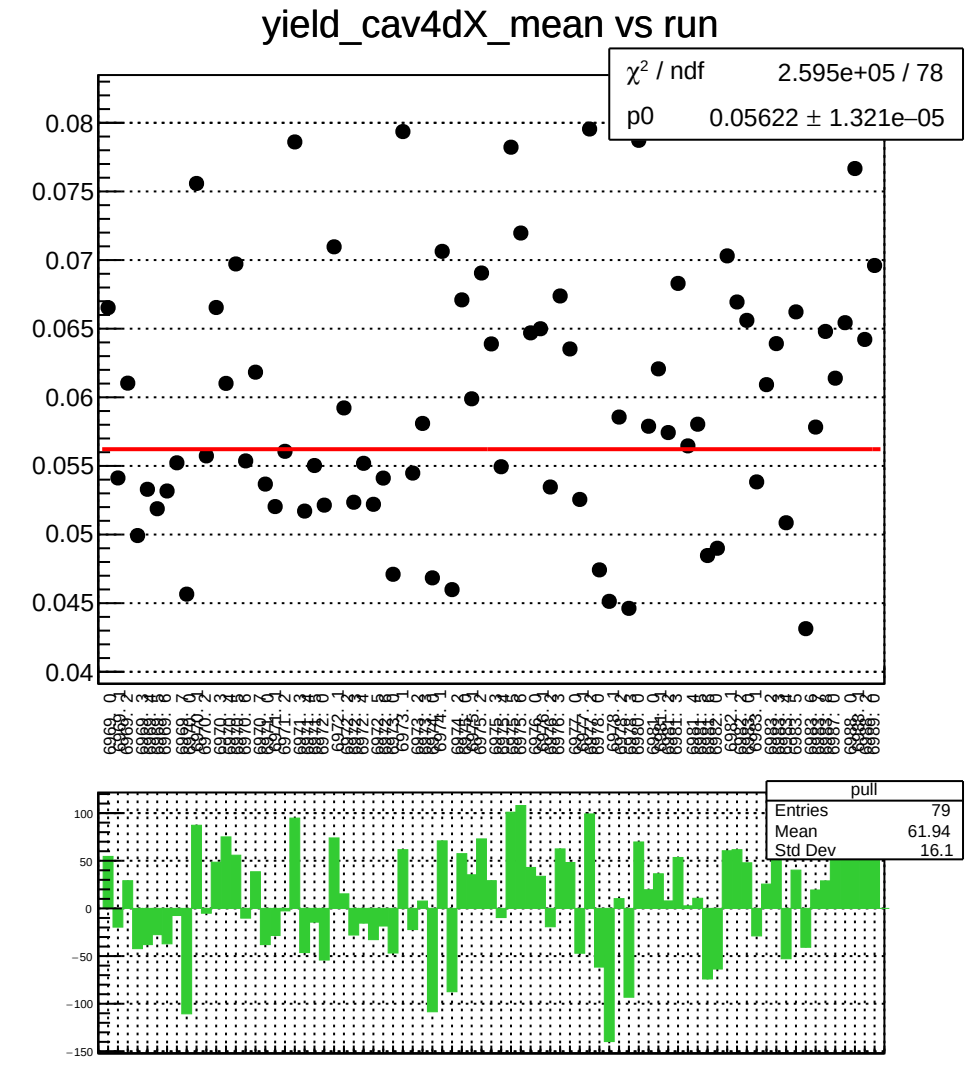

pull1D
Entries 79
Mean −0.9058
Std Dev 4.829
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

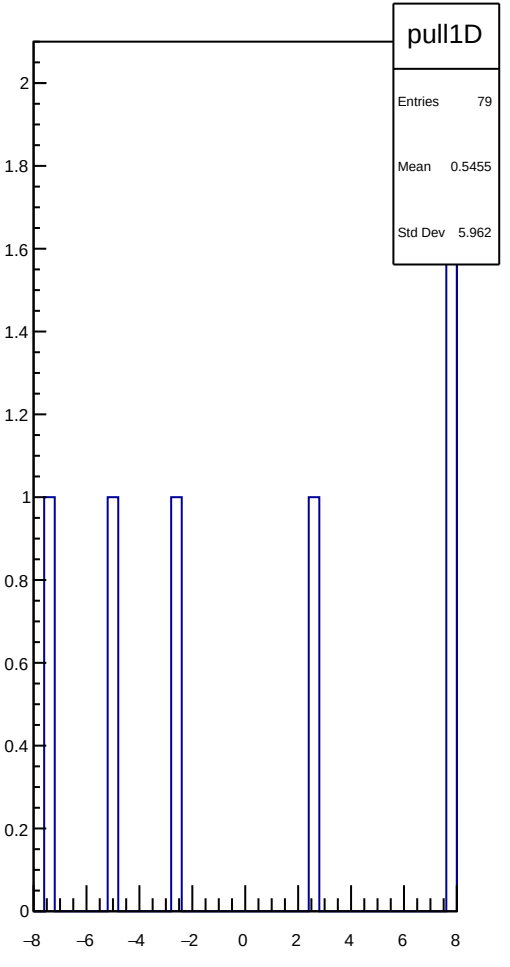

yield_cav4cX_rms vs run
χ² / ndf 2.634e+05 / 78
p0 0.001822 ± 1.6e−06
0.006
0.005
0.004
0.003
0.002
0.001

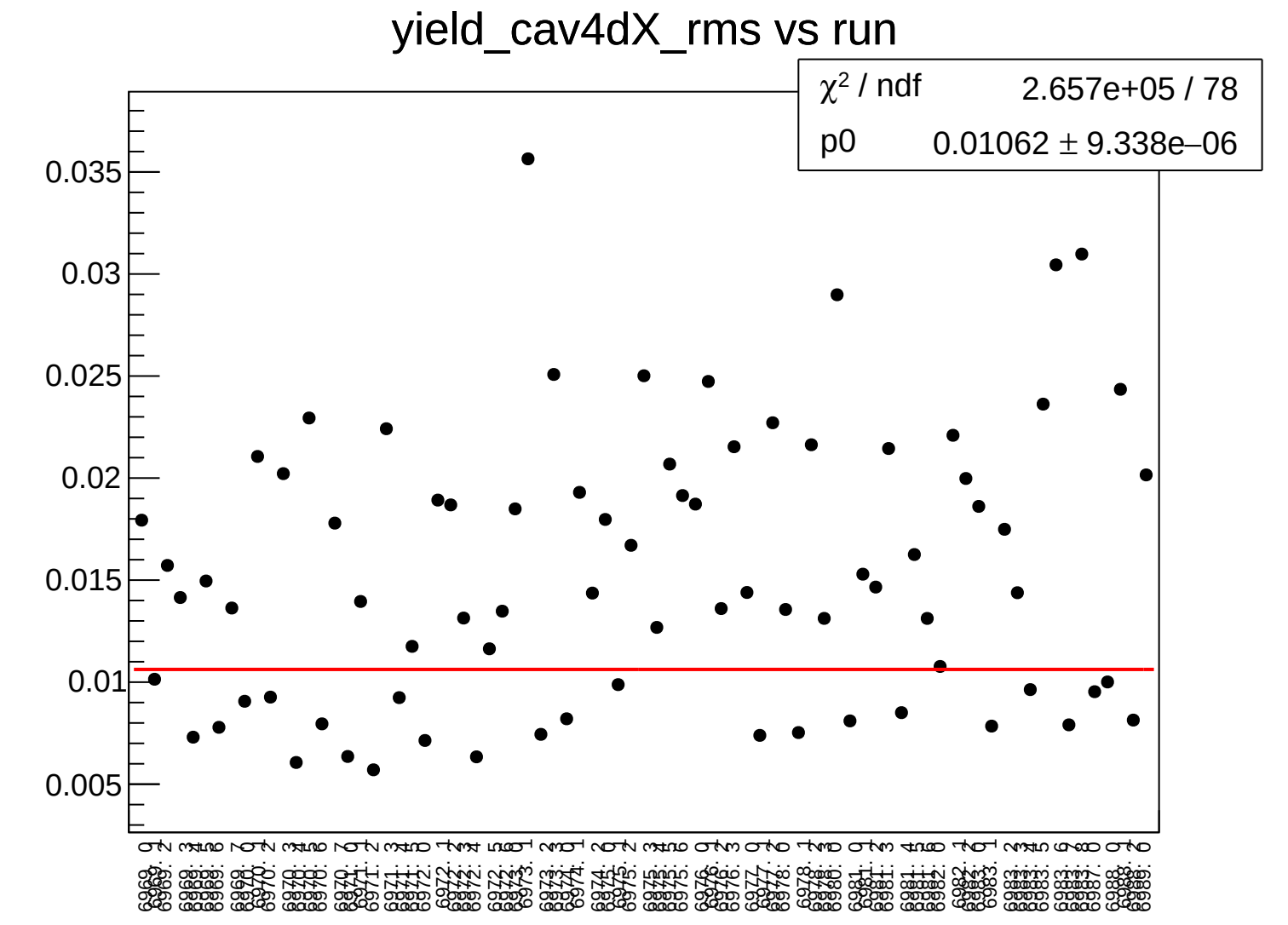

yield_cav4cY_mean vs run
χ² / ndf 1.26e+05 / 78
p0 −0.1213 ± 1.26e−06
−0.1195
−0.12
−0.1205
−0.121
−0.1215
−0.122
−0.1225
−0.123
−0.1235
pull
Entries 79
Mean 13.09
Std Dev 31.76
100
50
0
−50
−100

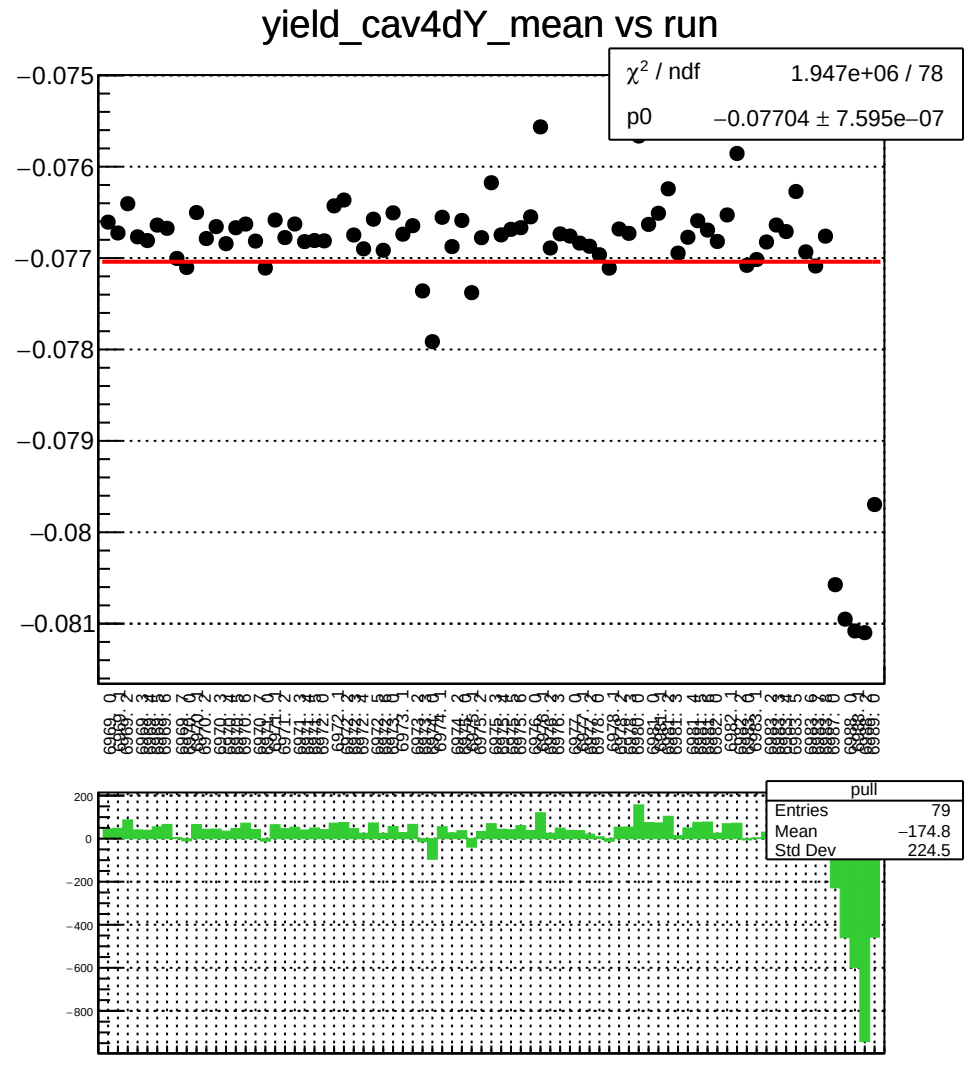

pull1D
Entries 79
Mean −0.1294
Std Dev 4.407
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

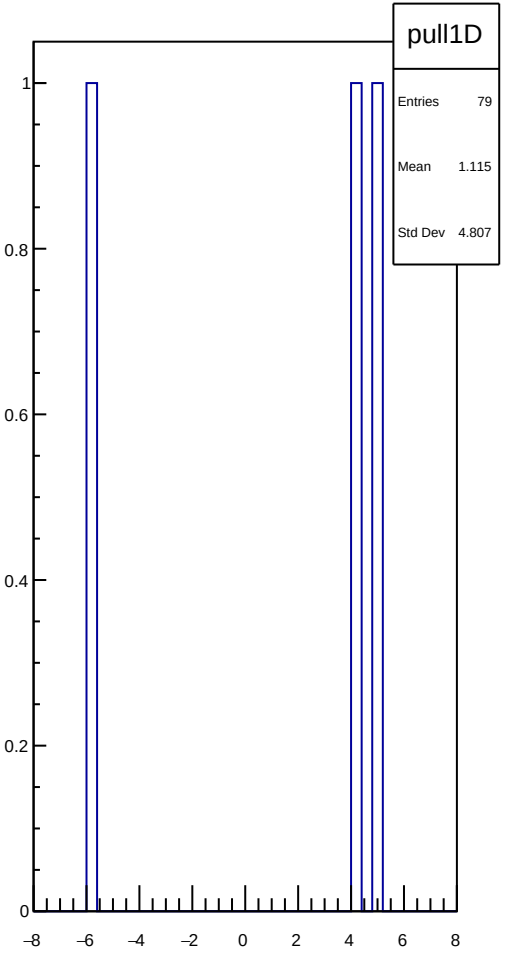

yield_cav4cY_rms vs run
χ² / ndf 7.627e+04 / 78
p0 0.001085 ± 8.911e−07
0.004
0.0035
0.003
0.0025
0.002
0.0015
0.001

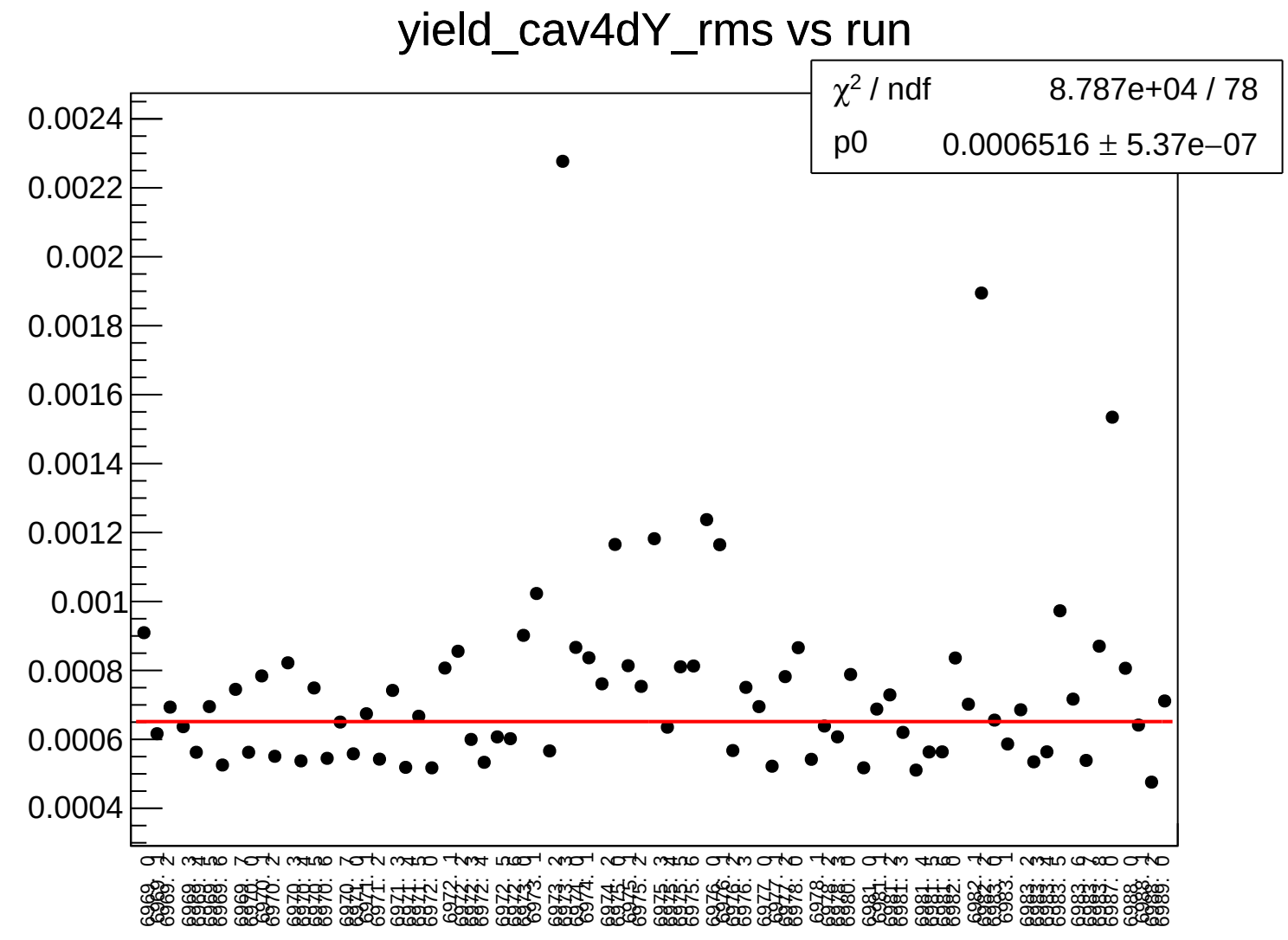

yield_cav4dX_mean vs run
χ² / ndf 2.595e+05 / 78
p0 0.05622 ± 1.321e−05
0.08
0.075
0.07
0.065
0.06
0.055
0.05
0.045
0.04
pull
Entries 79
Mean 61.94
Std Dev 16.1
100
50
0
−50
−100
−150

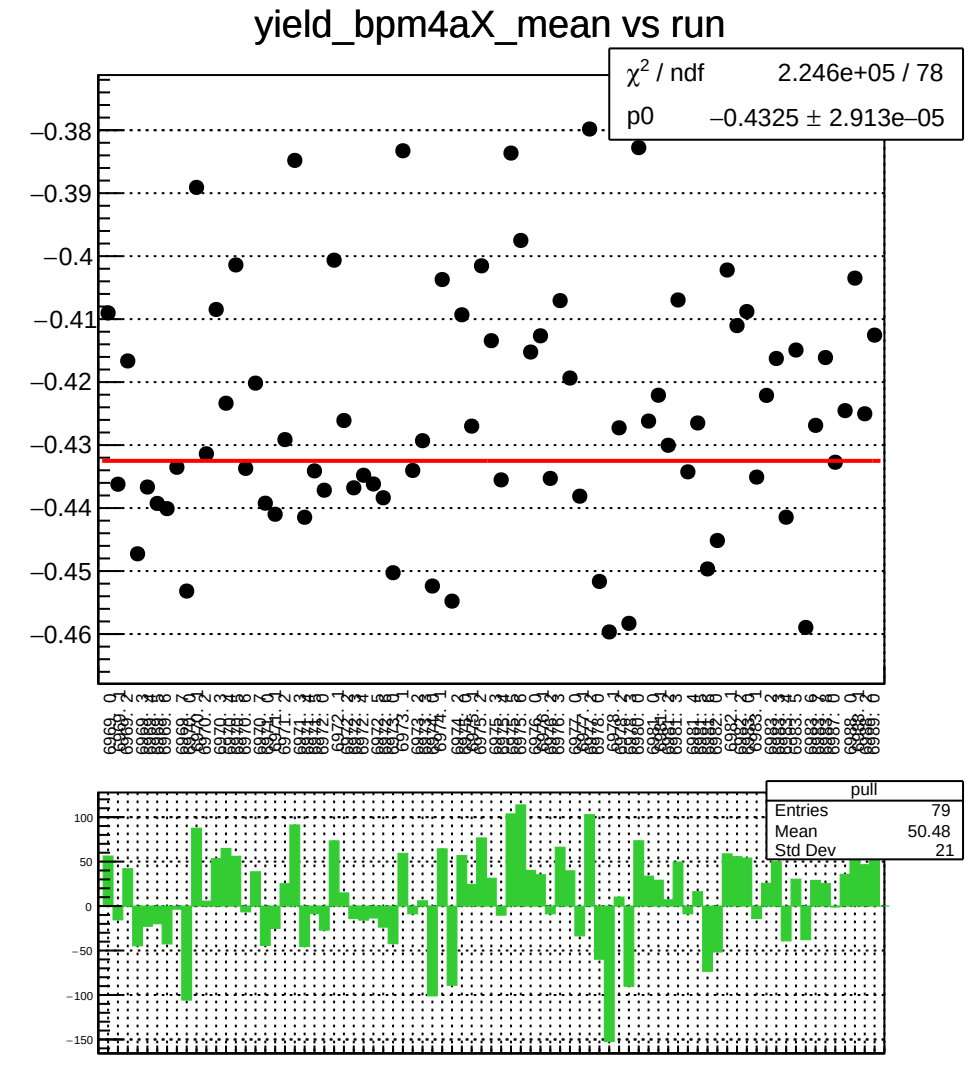

pull1D
Entries 79
Mean 0.5455
Std Dev 5.962
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

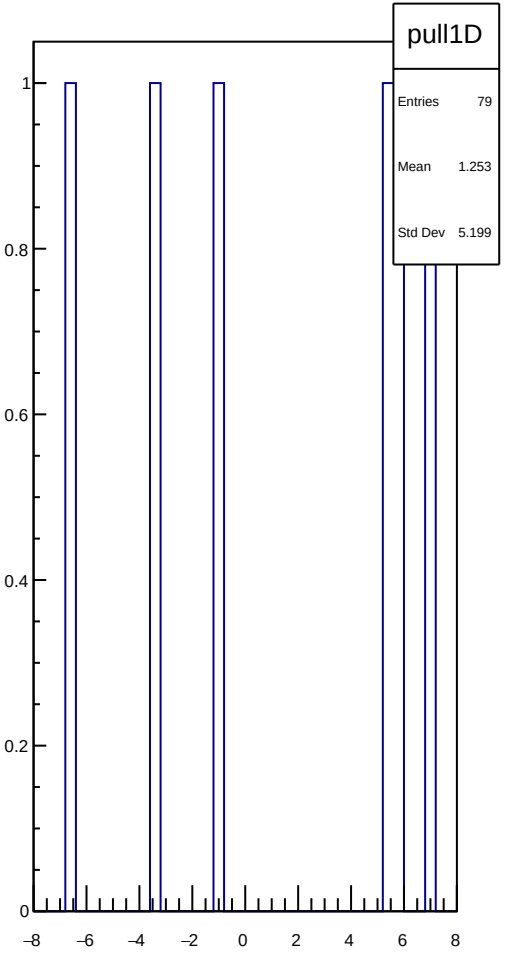

yield_cav4dX_rms vs run
χ² / ndf 2.657e+05 / 78
p0 0.01062 ± 9.338e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

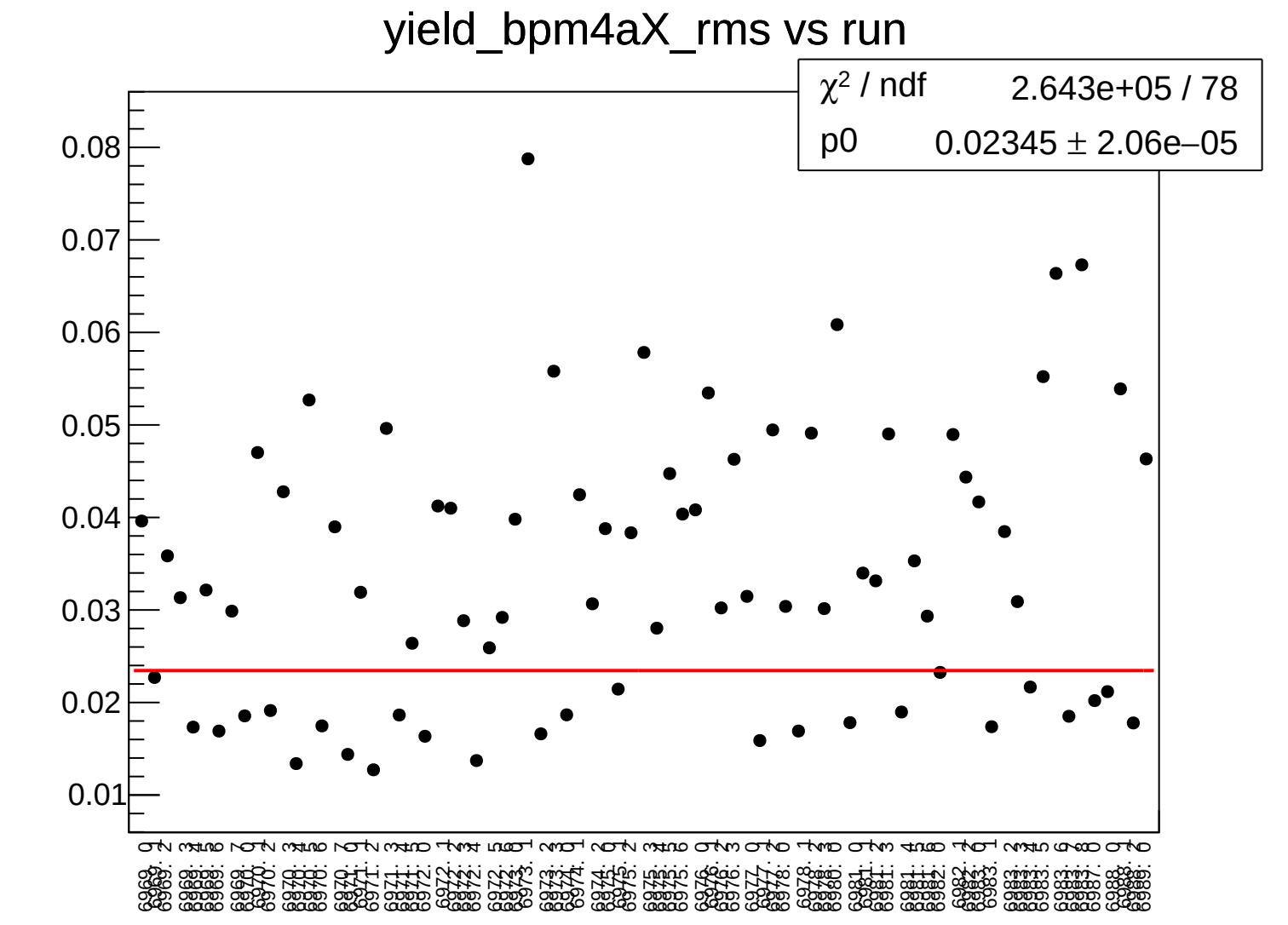

yield_cav4dY_mean vs run
χ² / ndf 1.947e+06 / 78
p0 −0.07704 ± 7.595e−07
−0.075
−0.076
−0.077
−0.078
−0.079
−0.08
−0.081
pull
Entries 79
Mean −174.8
Std Dev 224.5
200
0
−200
−400
−600
−800

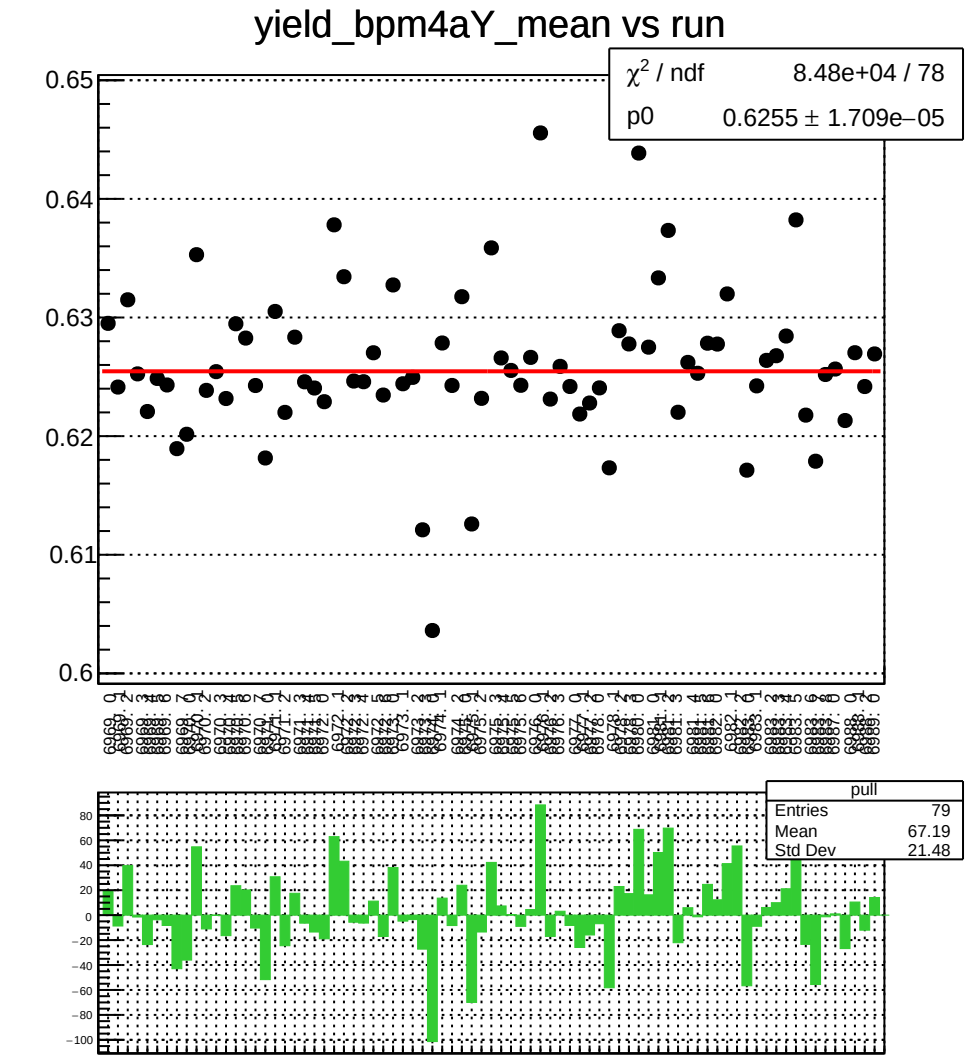

pull1D
Entries 79
Mean 1.115
Std Dev 4.807
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

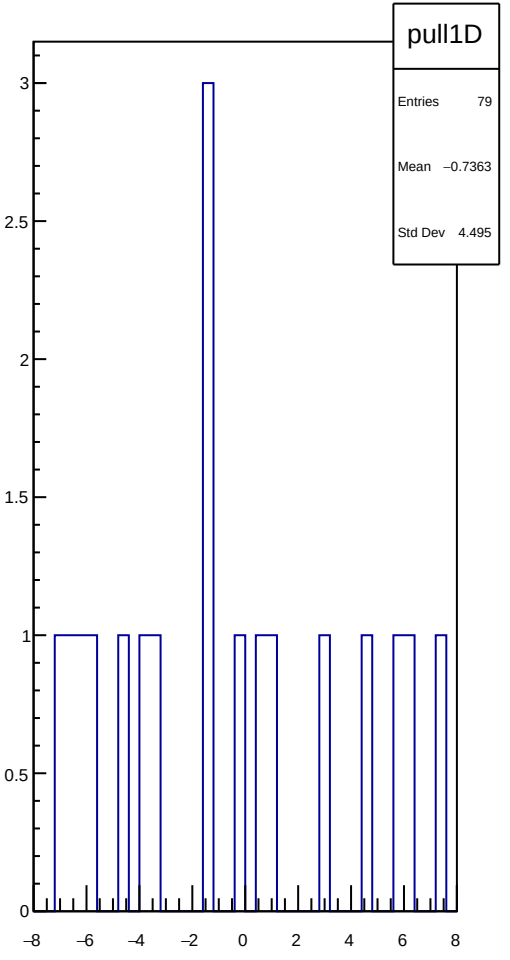

yield_cav4dY_rms vs run
χ² / ndf 8.787e+04 / 78
p0 0.0006516 ± 5.37e−07
0.0024
0.0022
0.002
0.0018
0.0016
0.0014
0.0012
0.001
0.0008
0.0006
0.0004

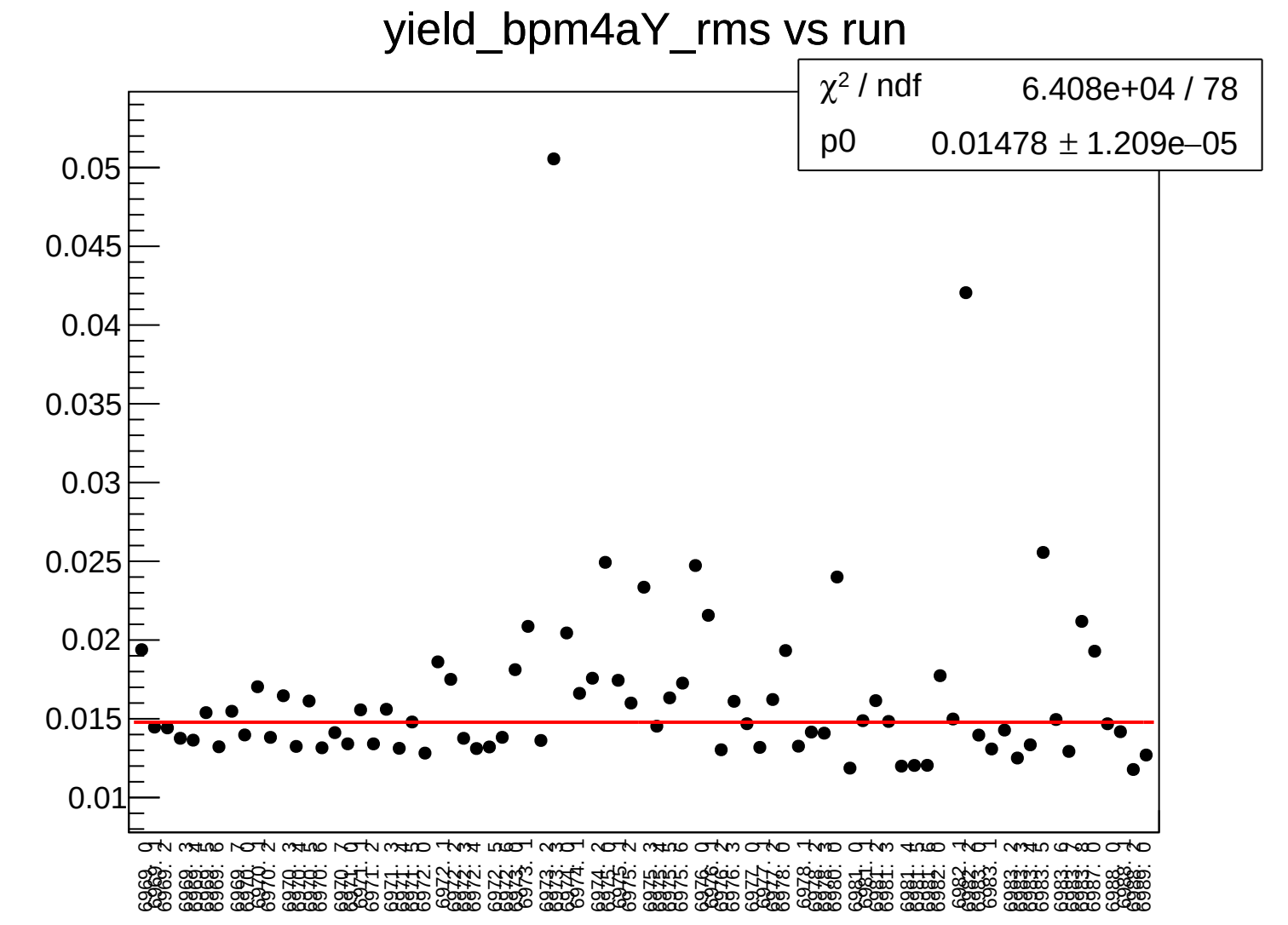

yield_bpm4aX_mean vs run
χ² / ndf 2.246e+05 / 78
p0 −0.4325 ± 2.913e−05
−0.38
−0.39
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 79
Mean 50.48
Std Dev 21
100
50
0
−50
−100
−150

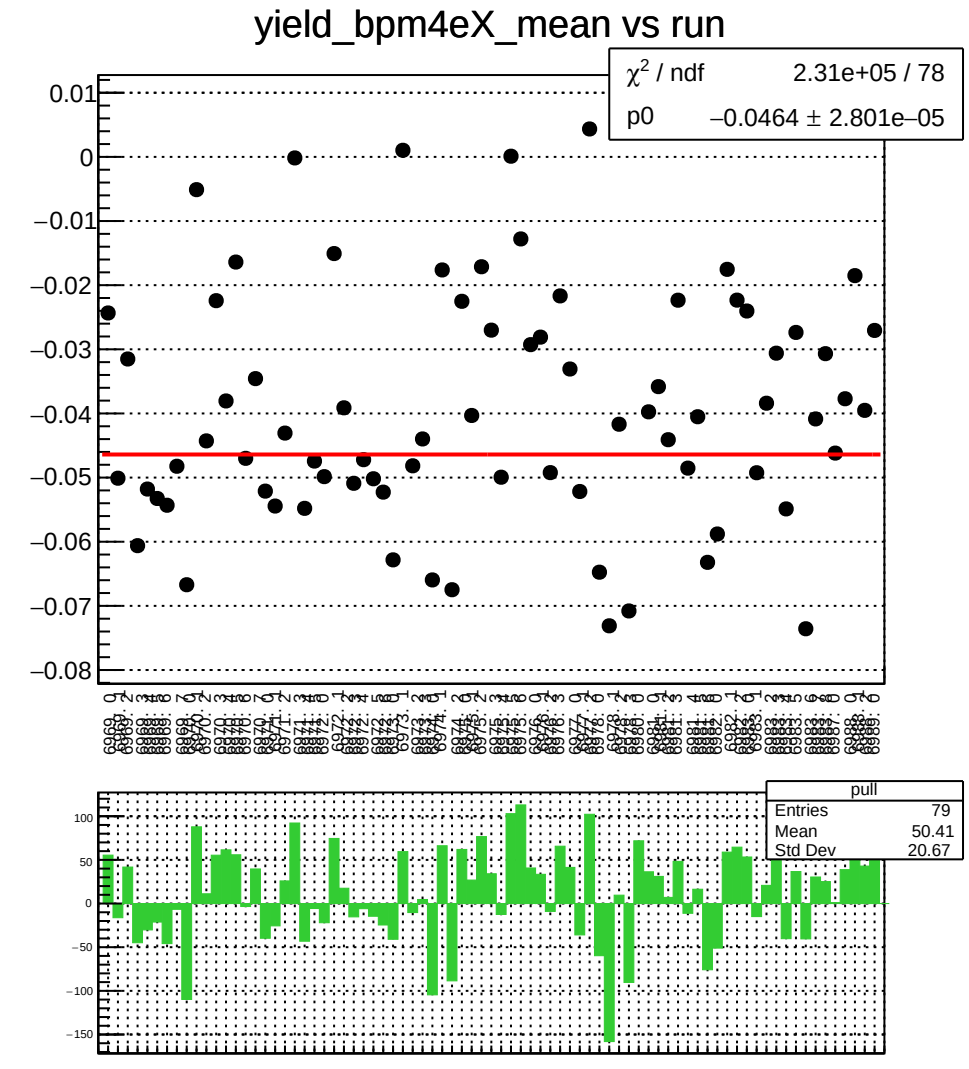

pull1D
Entries 79
Mean 1.253
Std Dev 5.199
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

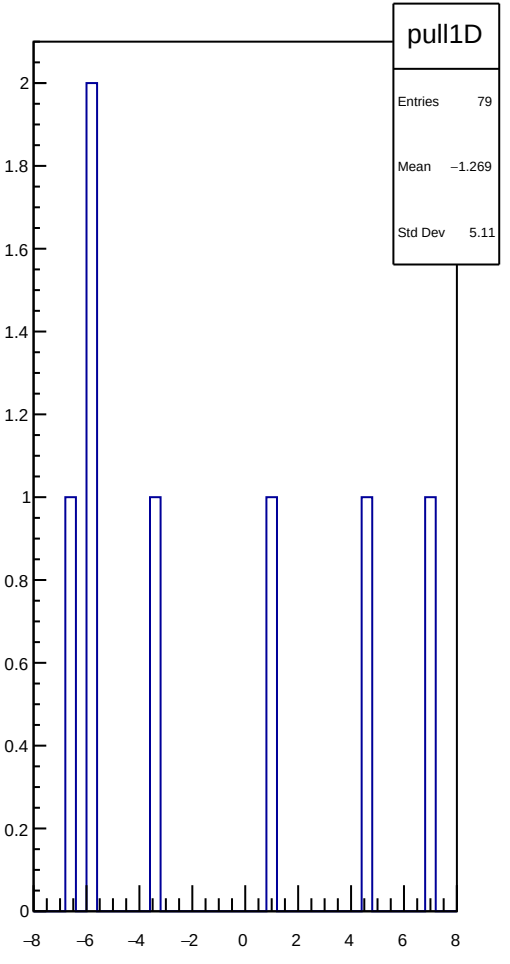

yield_bpm4aX_rms vs run
χ² / ndf 2.643e+05 / 78
p0 0.02345 ± 2.06e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

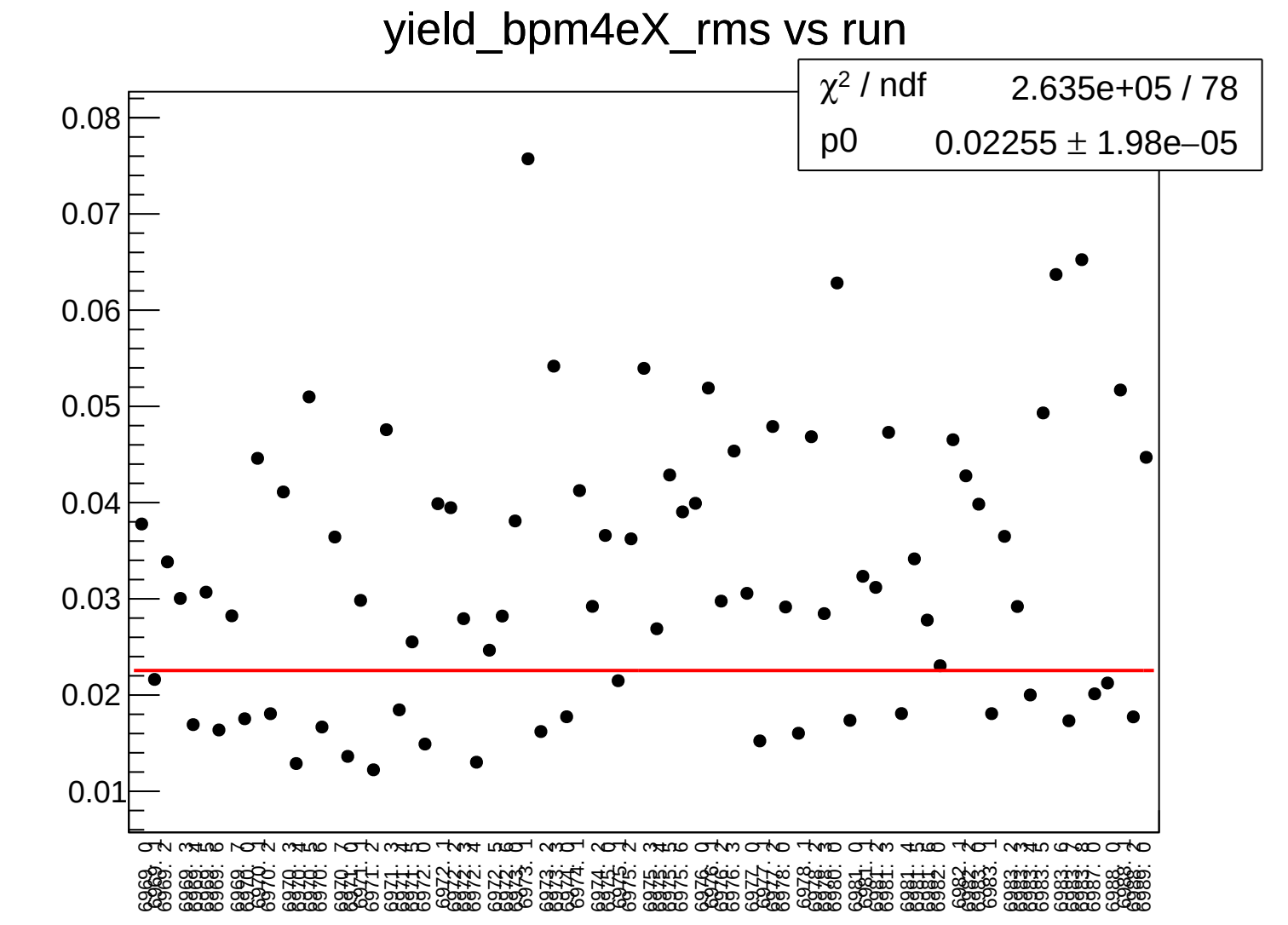

yield_bpm4aY_mean vs run
χ² / ndf 8.48e+04 / 78
p0 0.6255 ± 1.709e−05
0.65
0.64
0.63
0.62
0.61
0.6
pull
Entries 79
Mean 67.19
Std Dev 21.48
80
60
40
20
0
−20
−40
−60
−80
−100

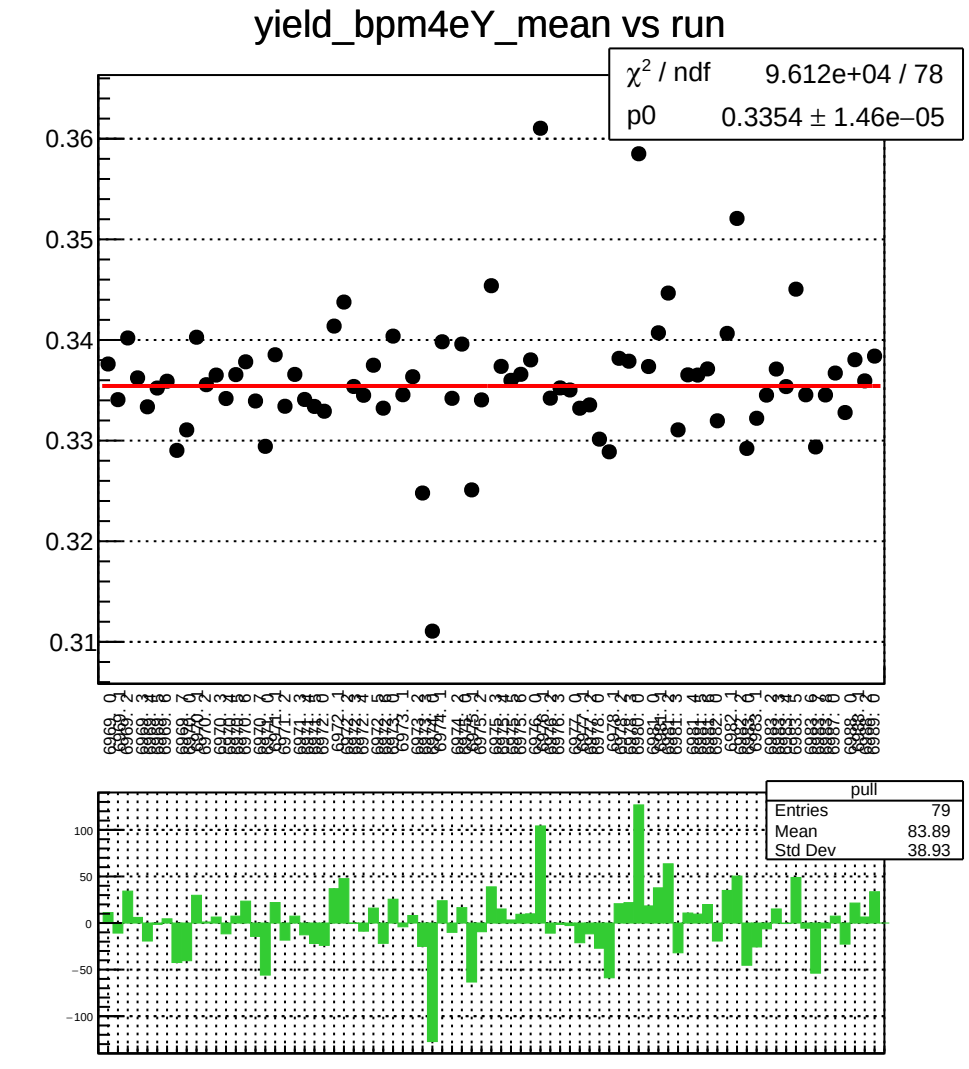

pull1D
Entries 79
Mean −0.7363
Std Dev 4.495
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

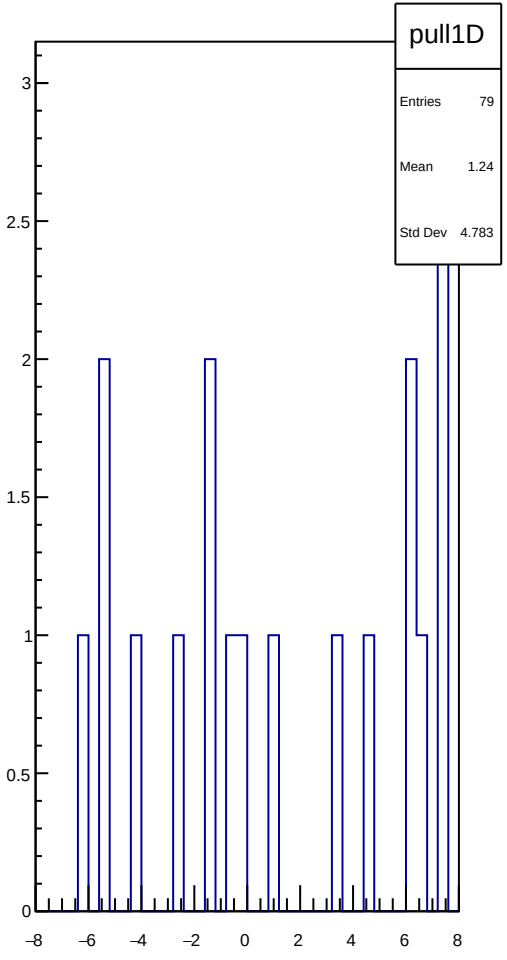

yield_bpm4aY_rms vs run
χ² / ndf 6.408e+04 / 78
p0 0.01478 ± 1.209e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

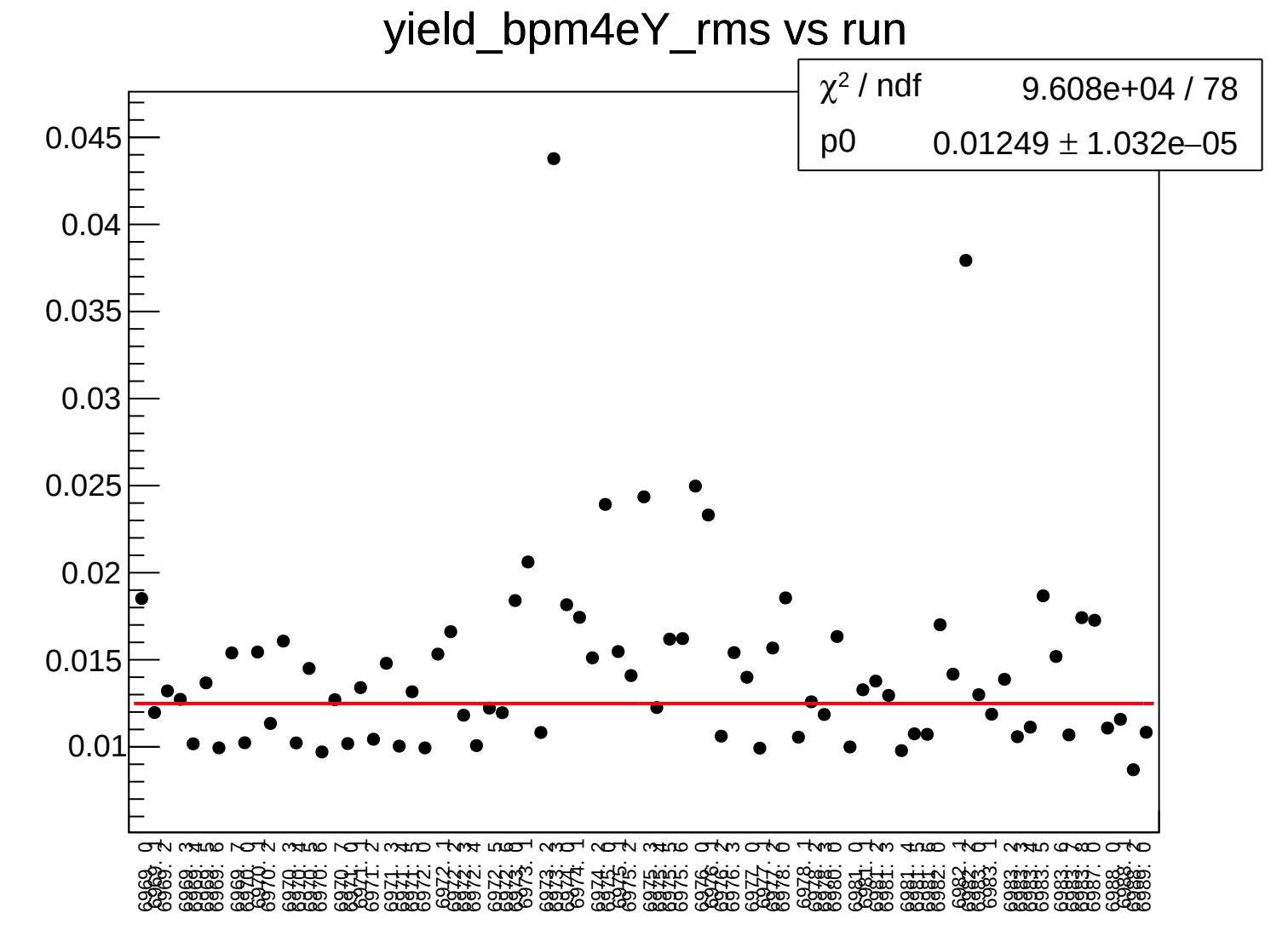

yield_bpm4eX_mean vs run
χ² / ndf 2.31e+05 / 78
p0 −0.0464 ± 2.801e−05
pull
Entries 79
Mean 50.41
Std Dev 20.67

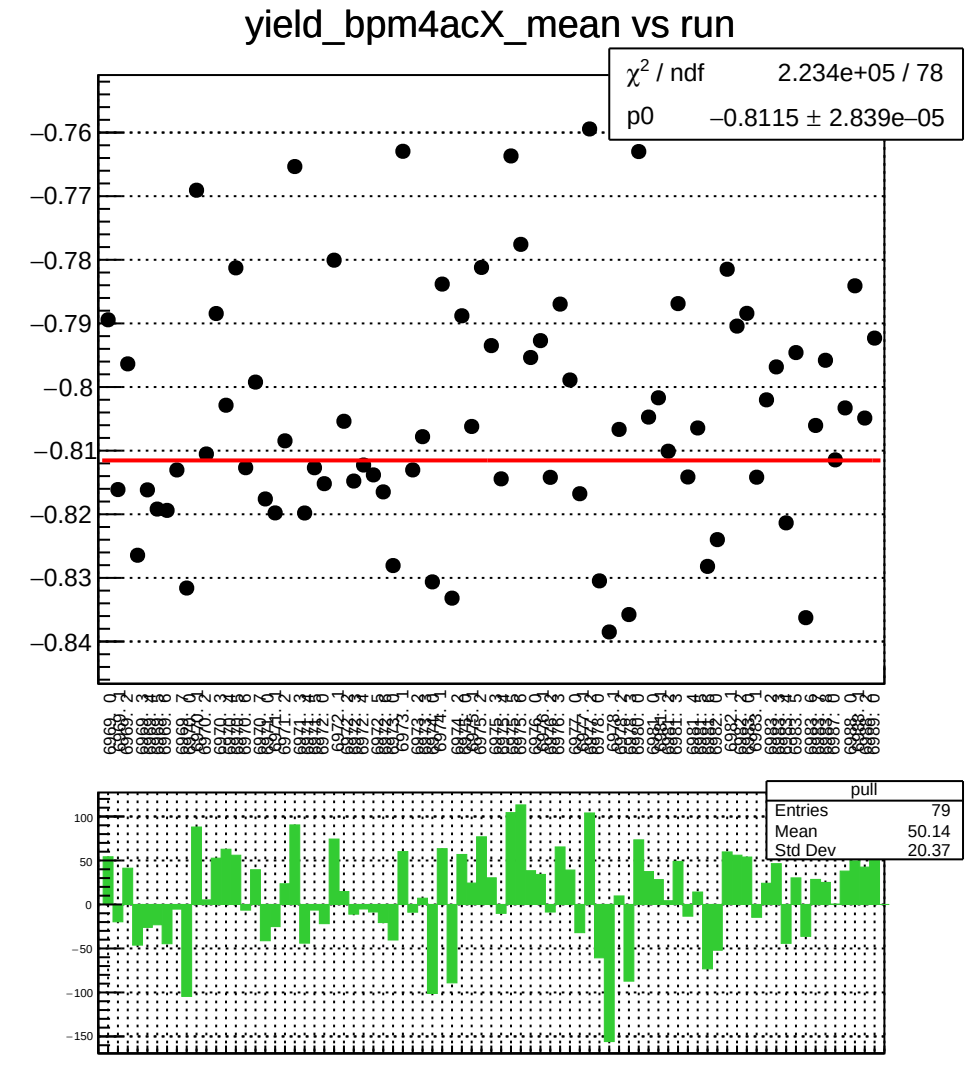

pull1D
Entries 79
Mean −1.269
Std Dev 5.11

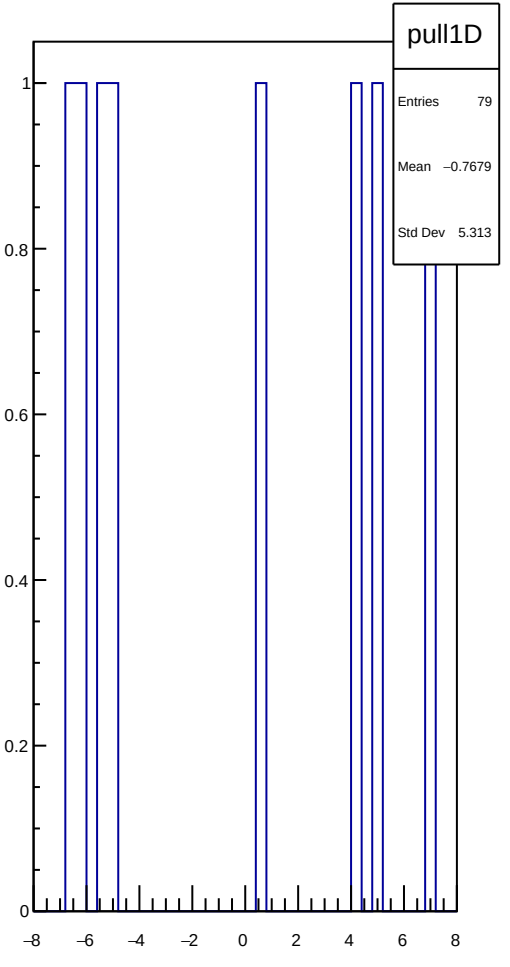

yield_bpm4eX_rms vs run
χ² / ndf 2.635e+05 / 78
p0 0.02255 ± 1.98e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

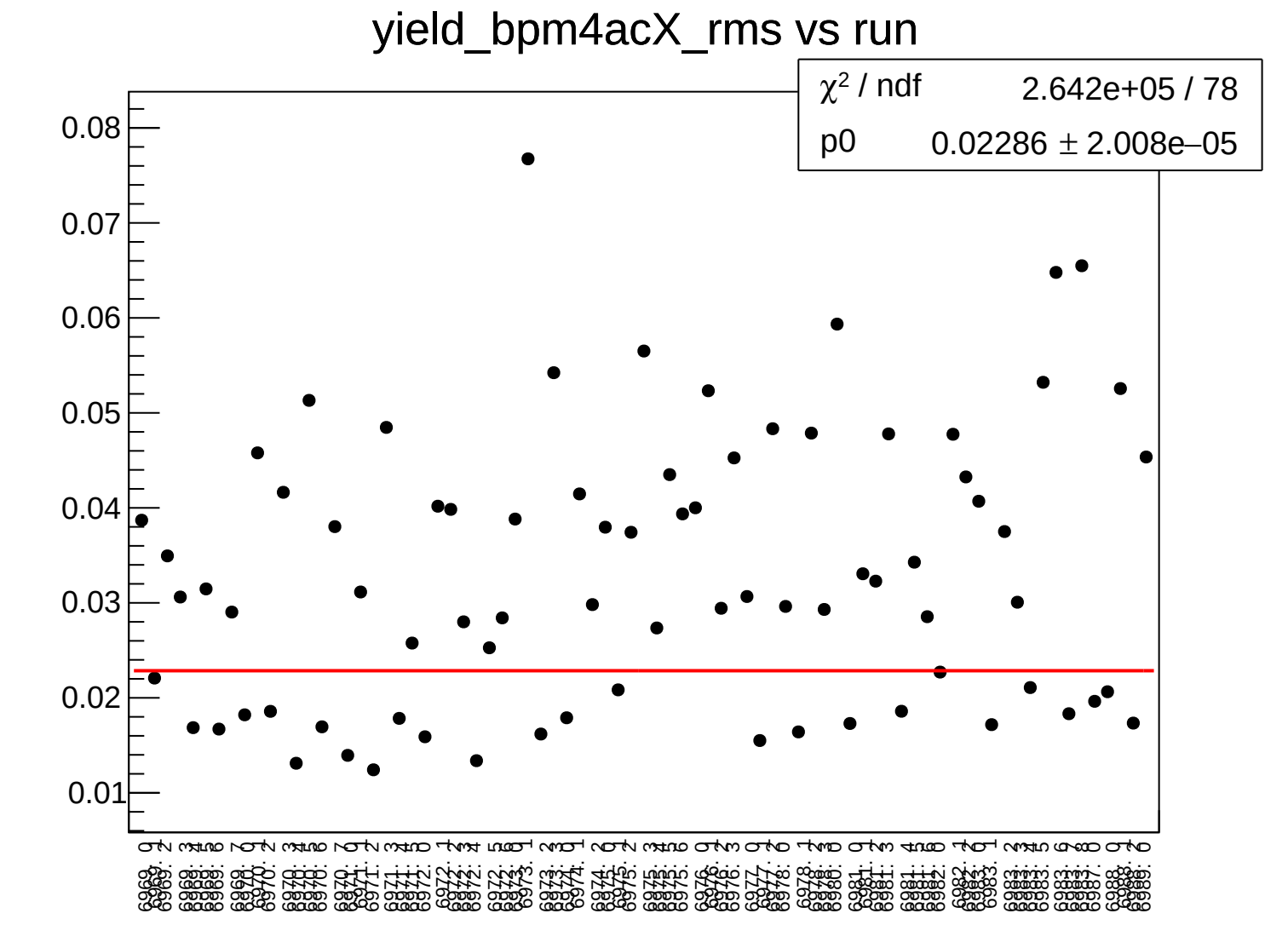

yield_bpm4eY_mean vs run
χ² / ndf 9.612e+04 / 78
p0 0.3354 ± 1.46e−05
0.36
0.35
0.34
0.33
0.32
0.31
pull
Entries 79
Mean 83.89
Std Dev 38.93
100
50
0
−50
−100

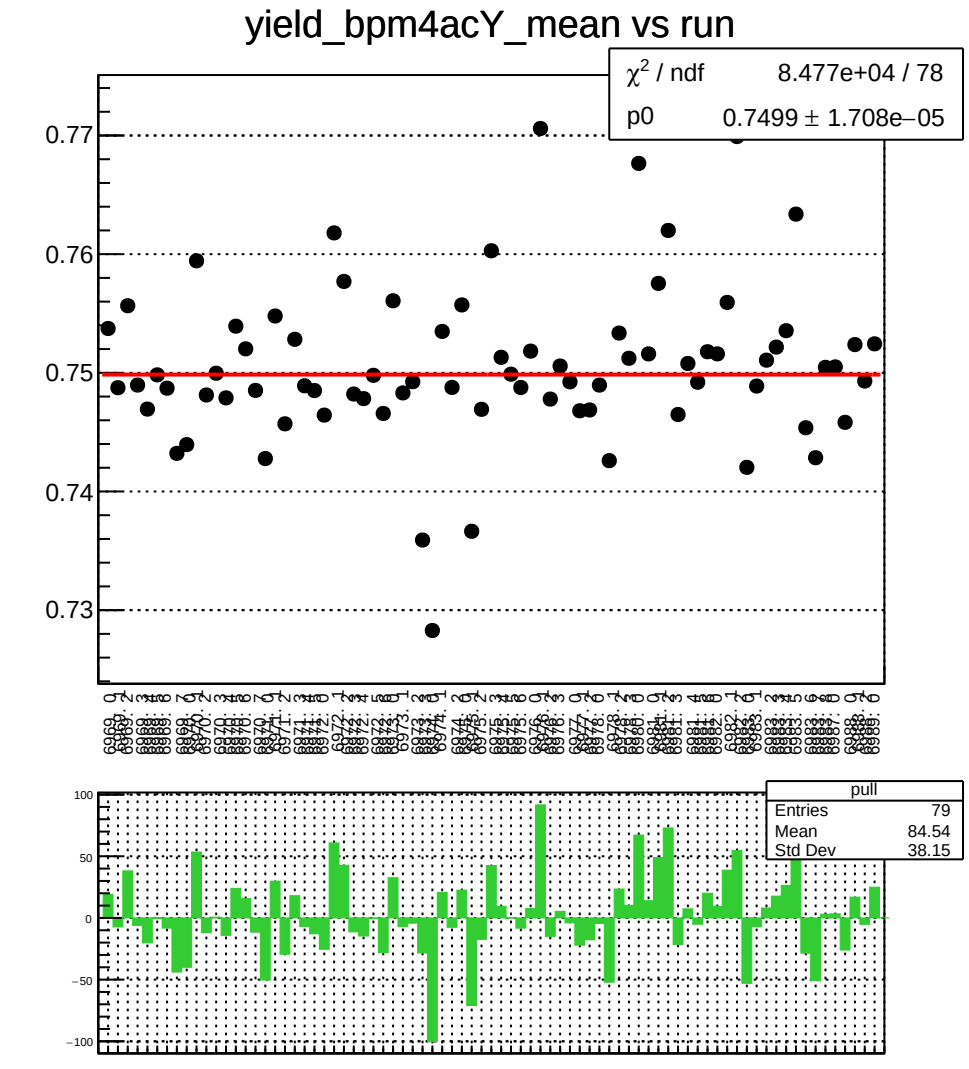

pull1D
Entries 79
Mean 1.24
Std Dev 4.783
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

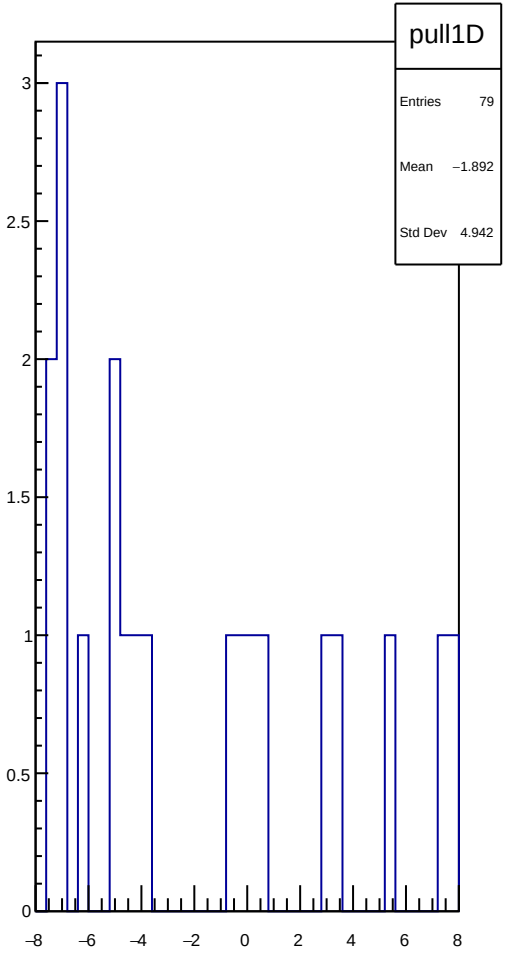

yield_bpm4eY_rms vs run
χ² / ndf 9.608e+04 / 78
p0 0.01249 ± 1.032e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

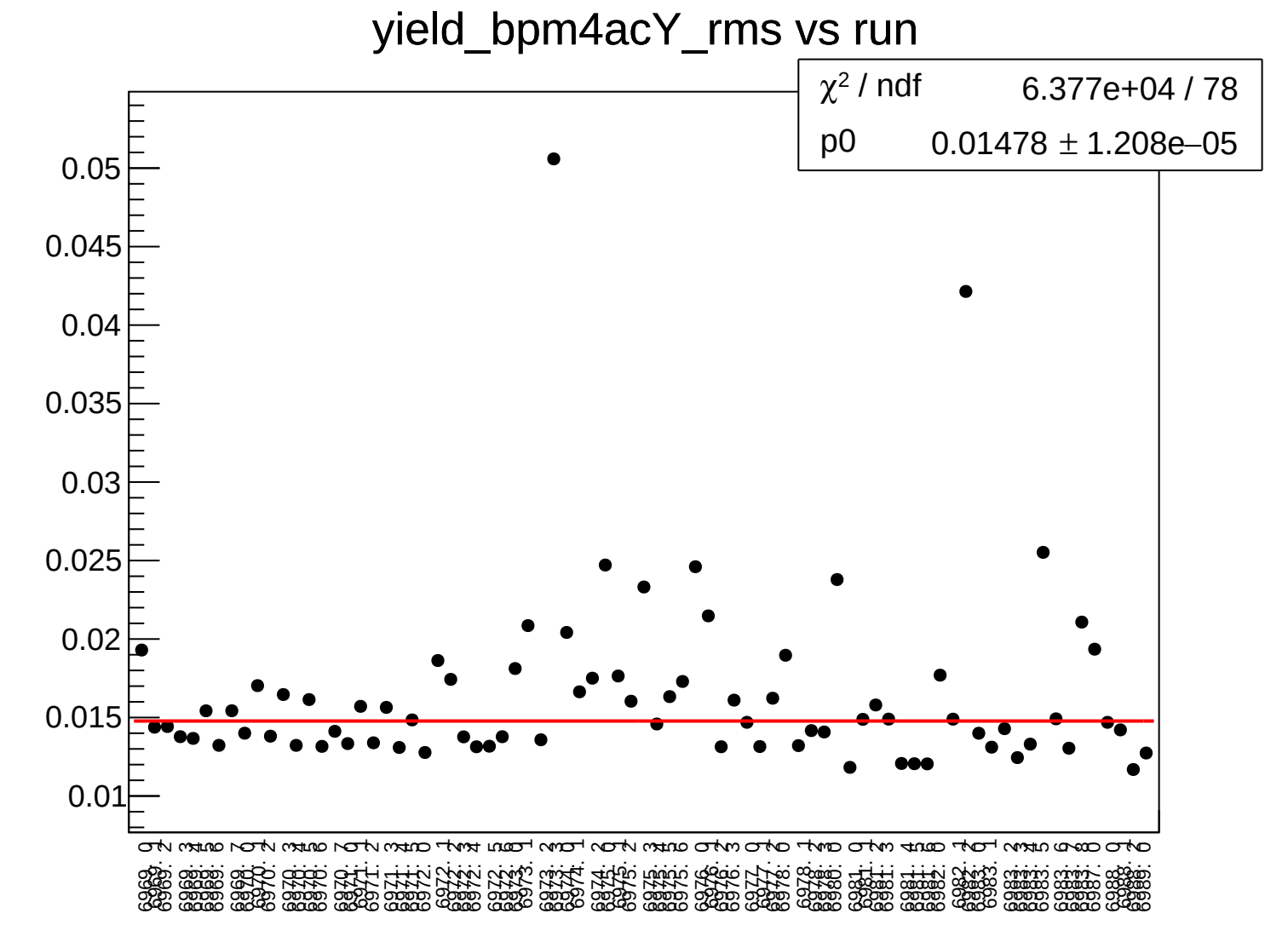

yield_bpm4acX_mean vs run
χ² / ndf 2.234e+05 / 78
p0 −0.8115 ± 2.839e−05
−0.76
−0.77
−0.78
−0.79
−0.8
−0.81
−0.82
−0.83
−0.84
pull
Entries 79
Mean 50.14
Std Dev 20.37
100
50
0
−50
−100
−150

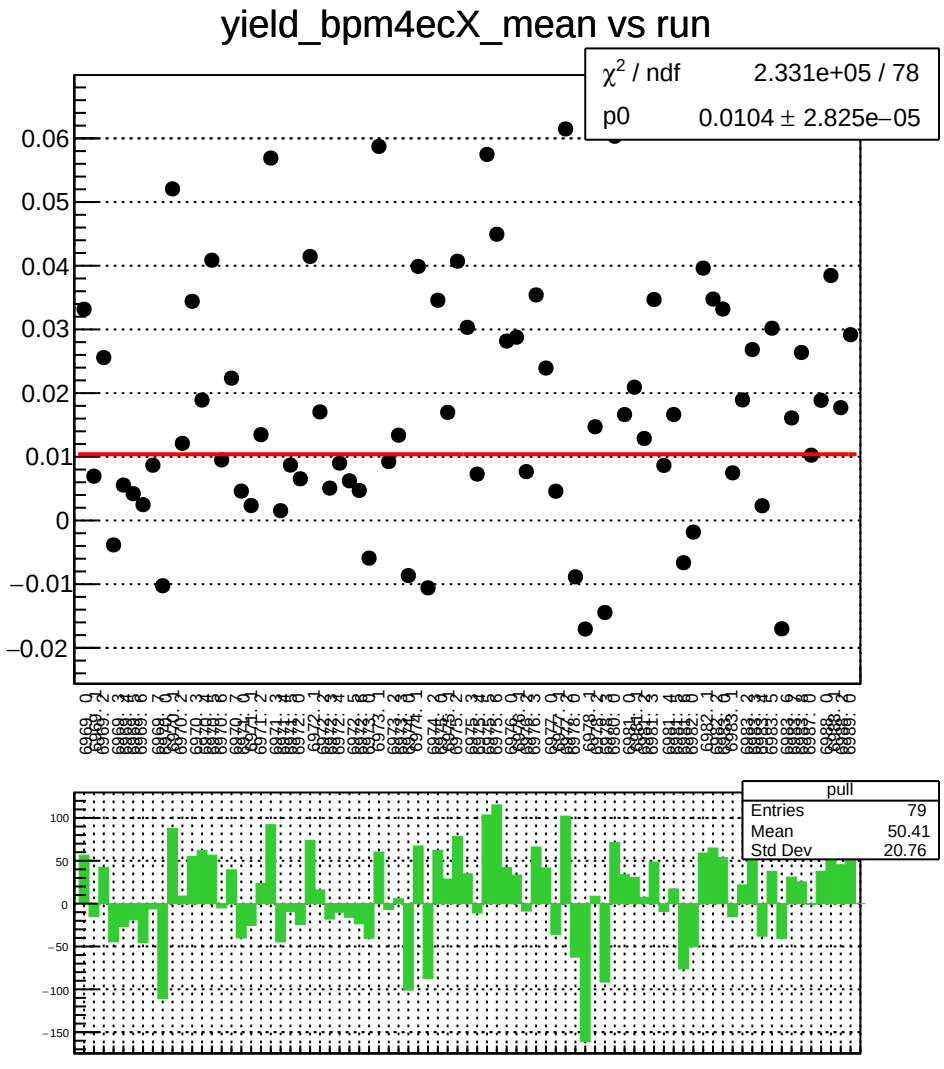

pull1D
Entries 79
Mean −0.7679
Std Dev 5.313
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

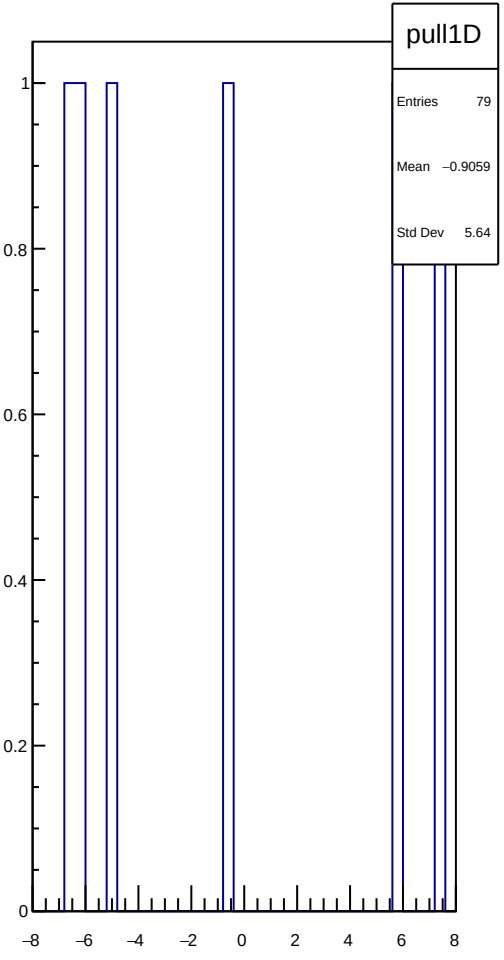

yield_bpm4acX_rms vs run
χ² / ndf 2.642e+05 / 78
p0 0.02286 ± 2.008e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

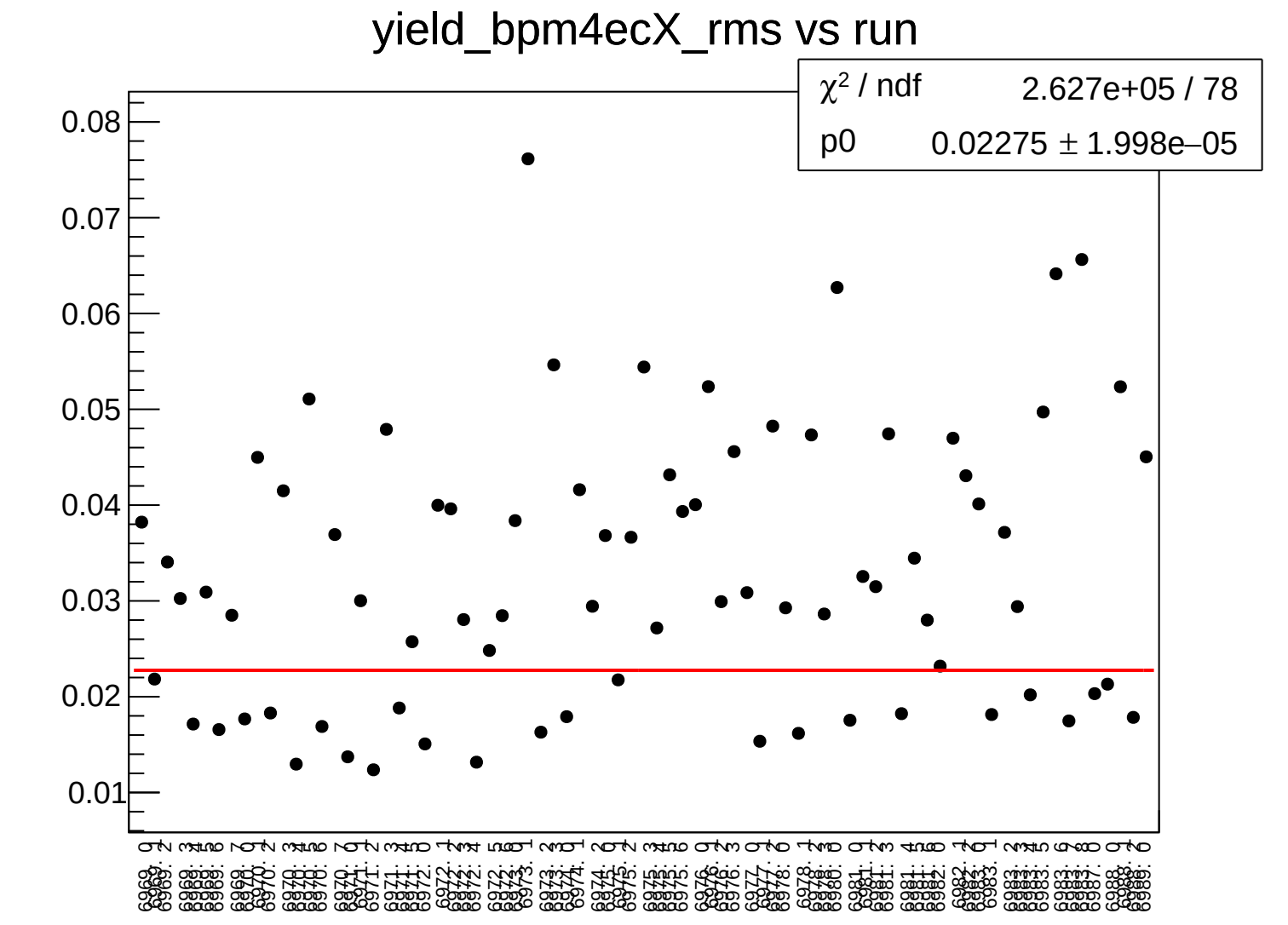

yield_bpm4acY_mean vs run
χ² / ndf 8.477e+04 / 78
p0 0.7499 ± 1.708e−05
0.77
0.76
0.75
0.74
0.73
pull
Entries 79
Mean 84.54
Std Dev 38.15
100
50
0
−50
−100

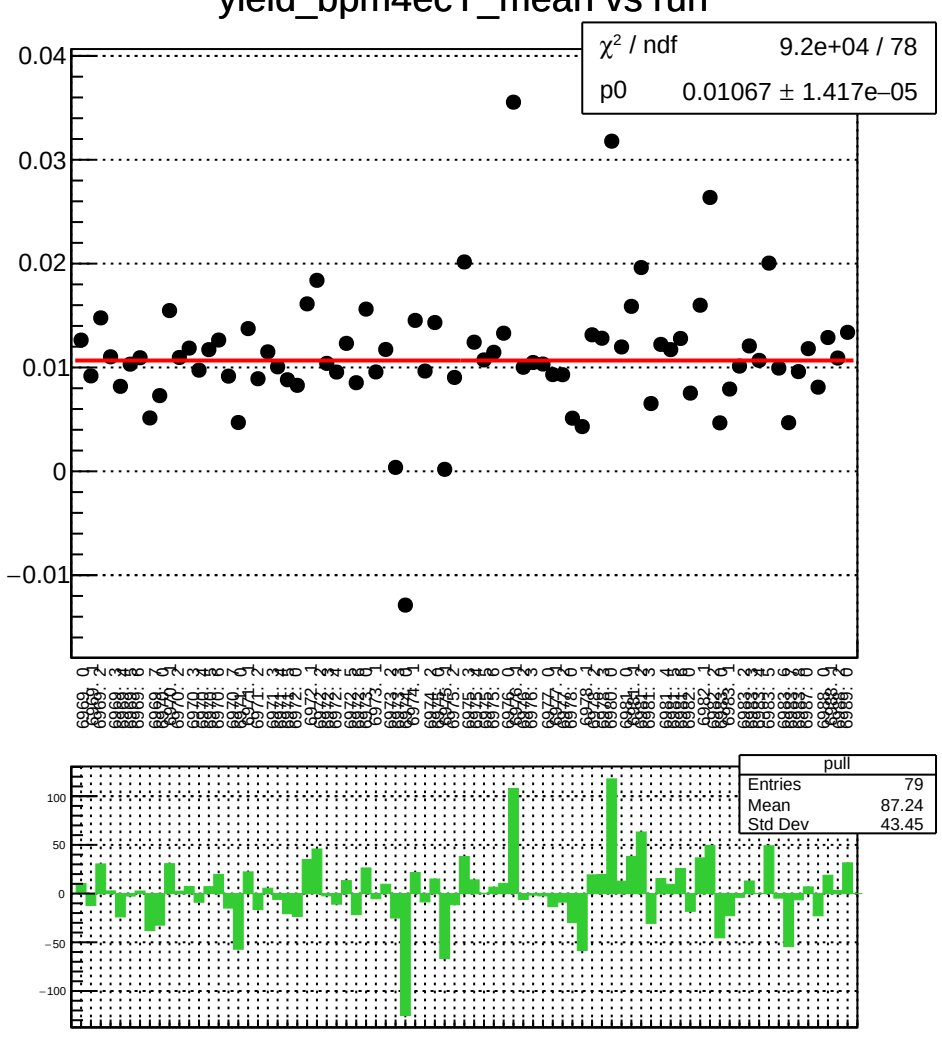

pull1D
Entries 79
Mean −1.892
Std Dev 4.942
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

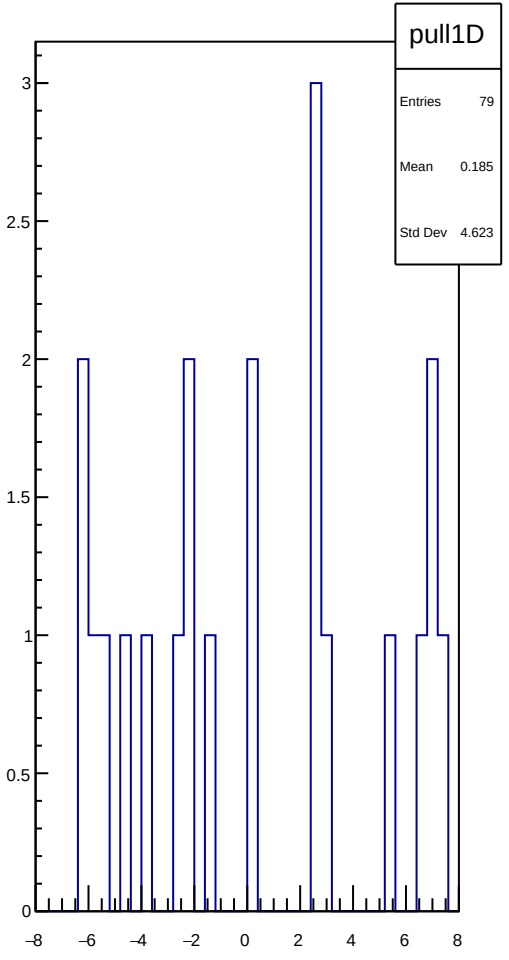

yield_bpm4acY_rms vs run
χ² / ndf 6.377e+04 / 78
p0 0.01478 ± 1.208e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

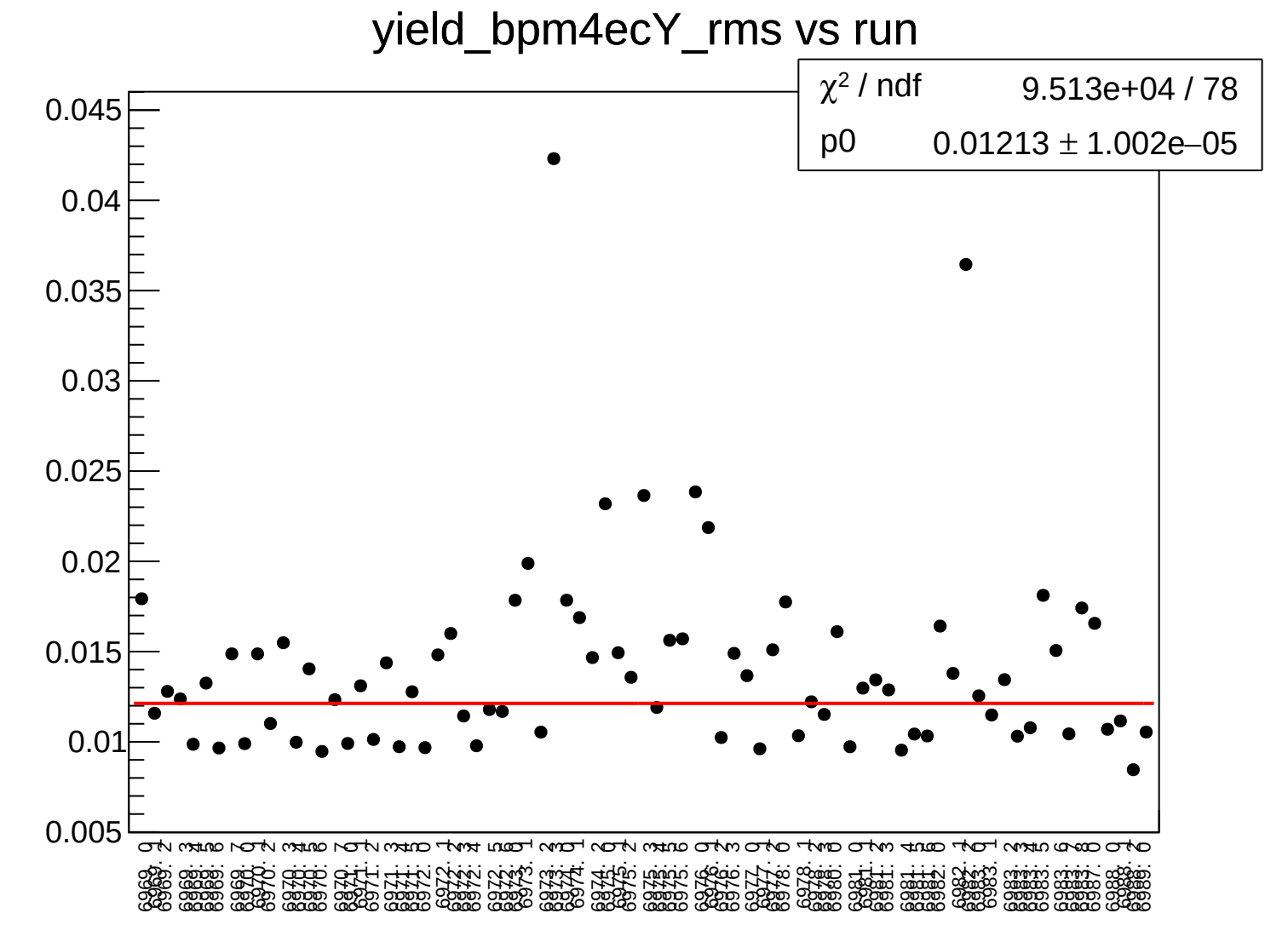

yield_bpm4ecX_mean vs run
χ² / ndf 2.331e+05 / 78
p0 0.0104 ± 2.825e−05
0.06
0.05
0.04
0.03
0.02
0.01
0
−0.01
−0.02
pull
Entries 79
Mean 50.41
Std Dev 20.76
100
50
0
−50
−100
−150

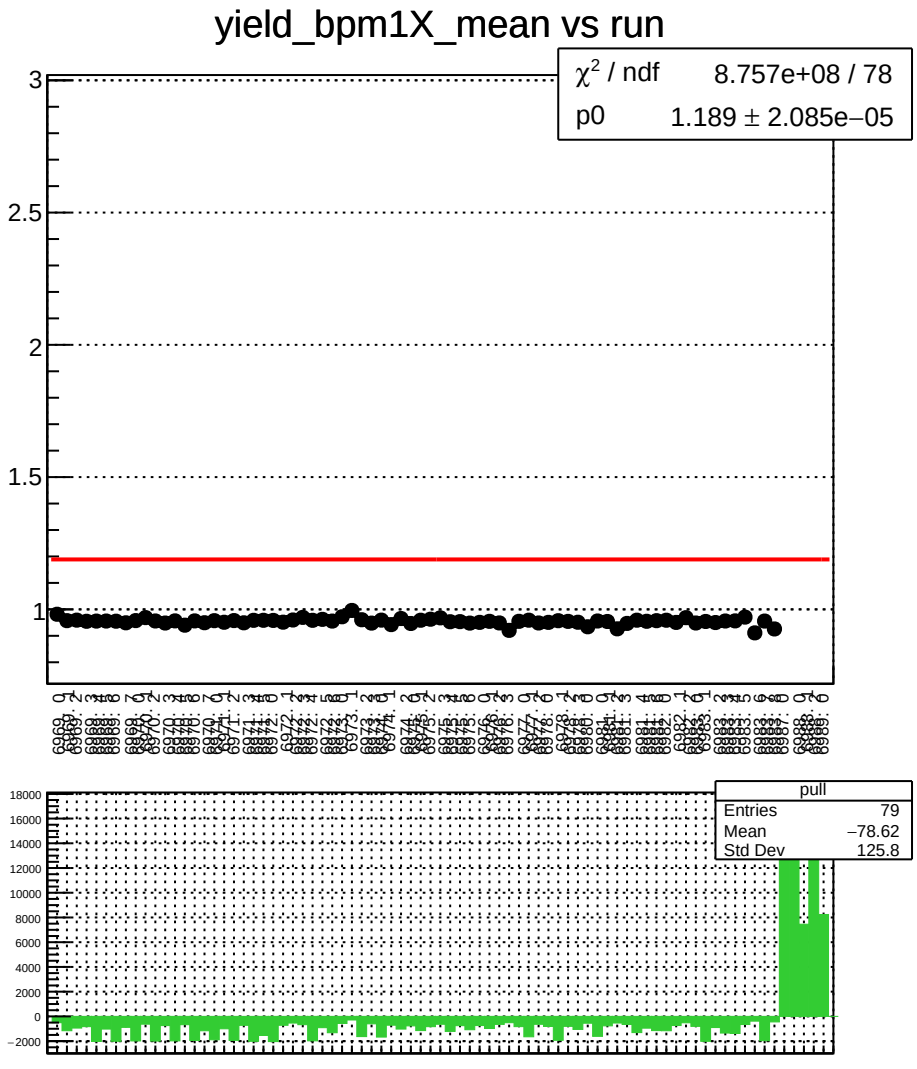

pull1D
Entries 79
Mean −0.9059
Std Dev 5.64
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

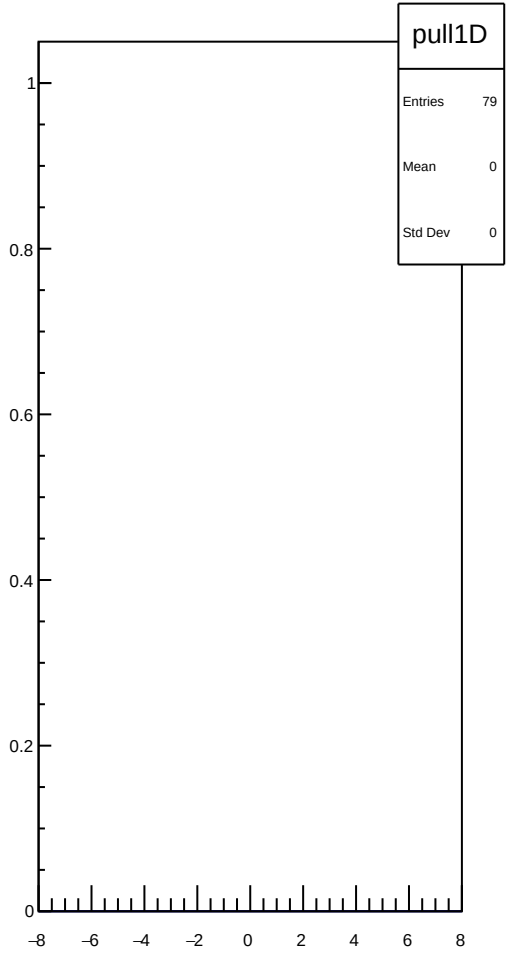

yield_bpm4ecX_rms vs run
χ² / ndf 2.627e+05 / 78
p0 0.02275 ± 1.998e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

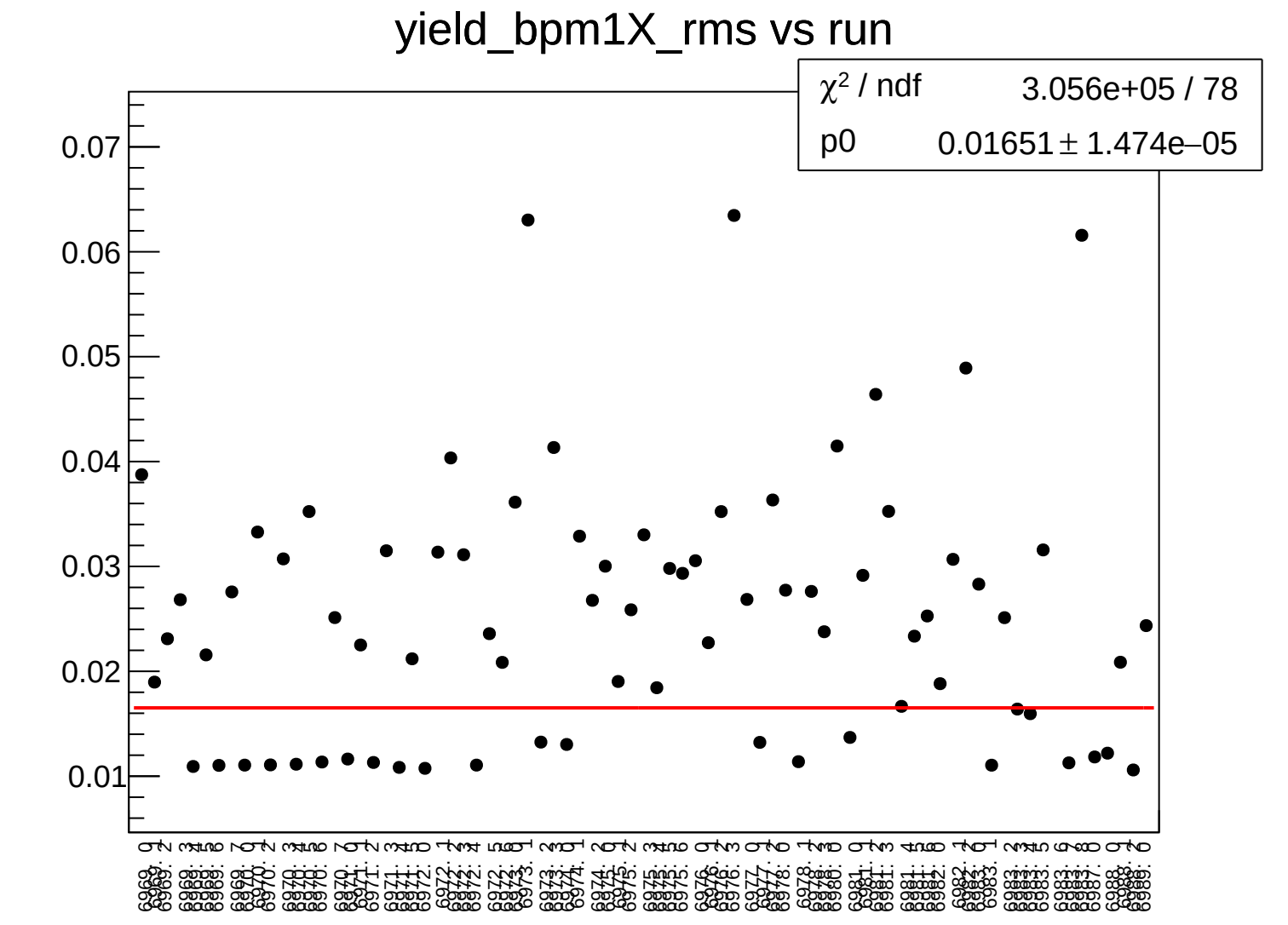

yield_bpm4ecY_mean vs run
χ² / ndf 9.2e+04 / 78
p0 0.01067 ± 1.417e−05
0.04
0.03
0.02
0.01
0
−0.01
pull
Entries 79
Mean 87.24
Std Dev 43.45
100
50
0
−50
−100

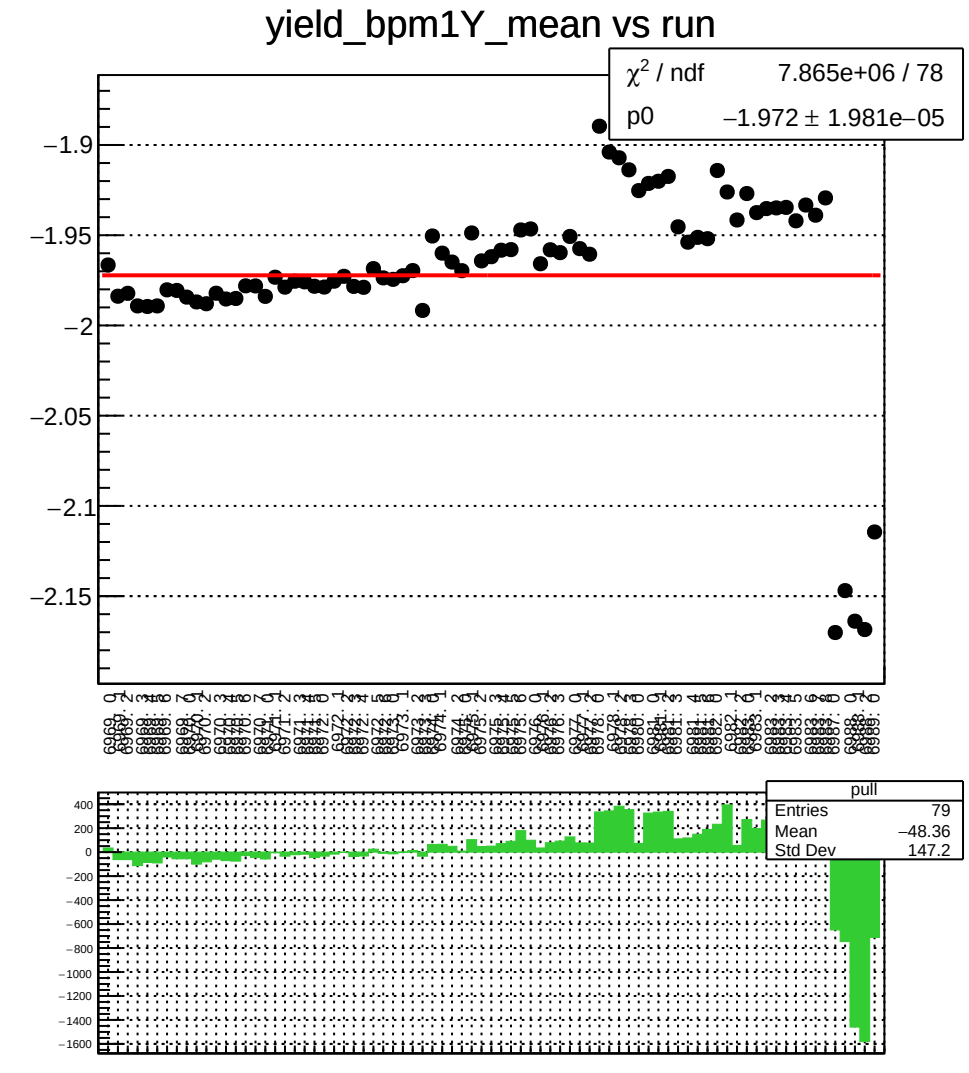

pull1D
Entries 79
Mean 0.185
Std Dev 4.623
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

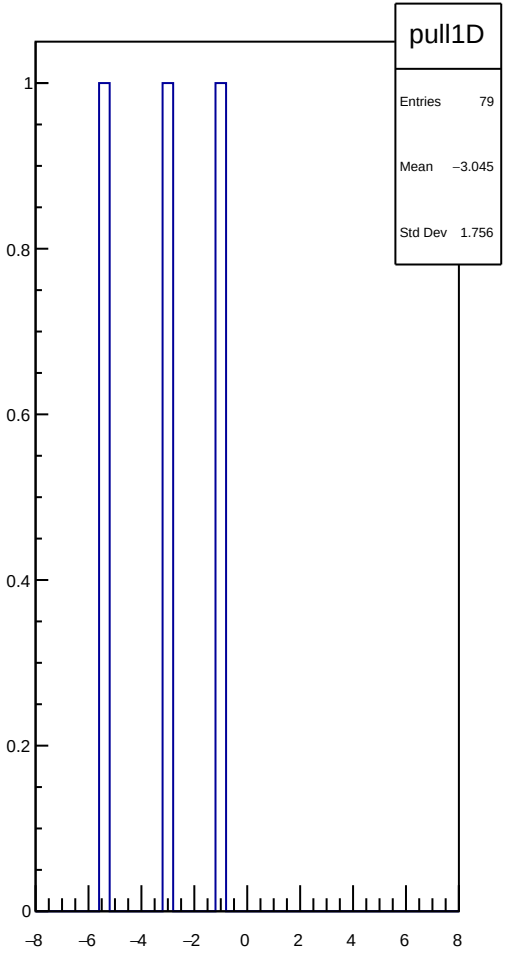

yield_bpm4ecY_rms vs run
χ² / ndf 9.513e+04 / 78
p0 0.01213 ± 1.002e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

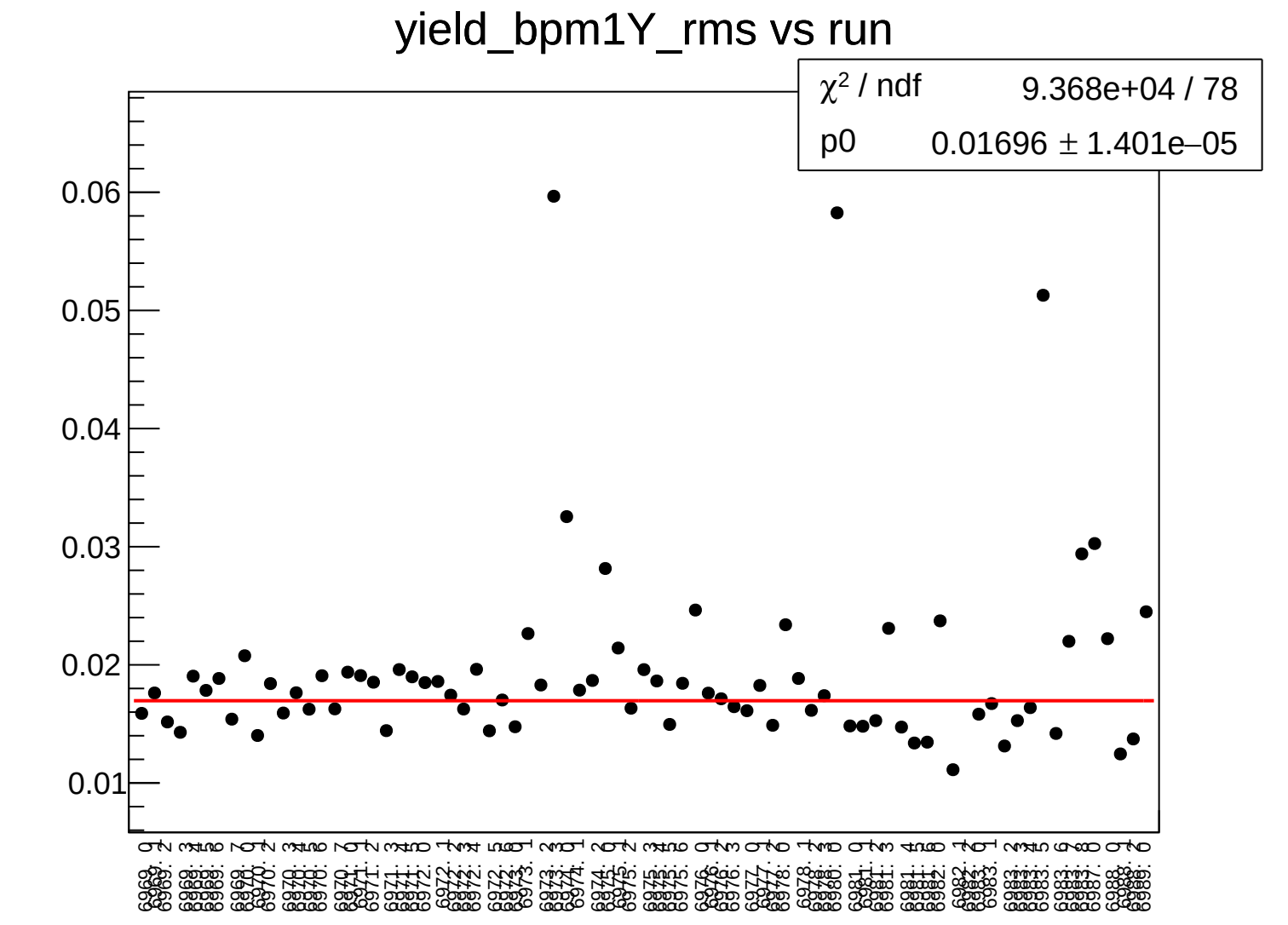

yield_bpm1X_mean vs run
χ² / ndf 8.757e+08 / 78
p0 1.189 ± 2.085e−05
pull
Entries 79
Mean −78.62
Std Dev 125.8

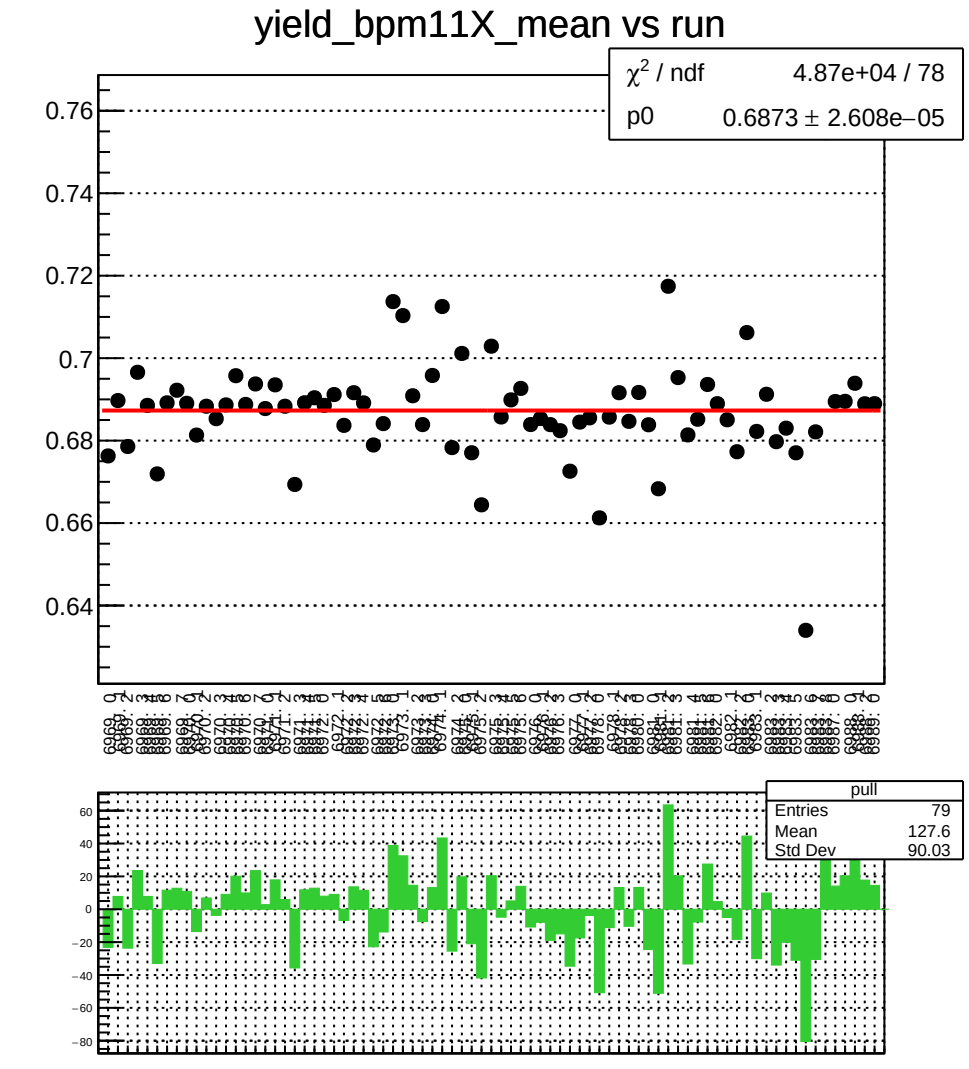

pull1D
Entries 79
Mean 0
Std Dev 0

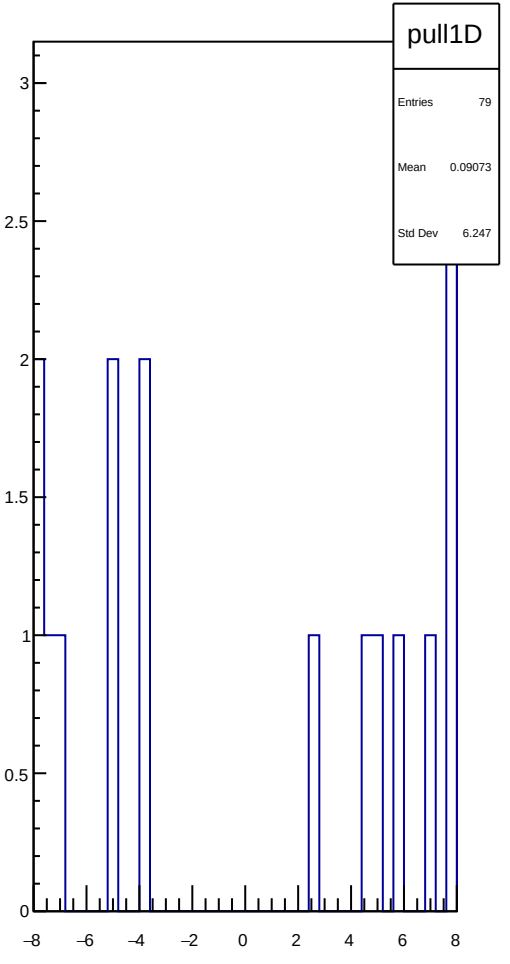

yield_bpm1X_rms vs run
χ² / ndf 3.056e+05 / 78
p0 0.01651 ± 1.474e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

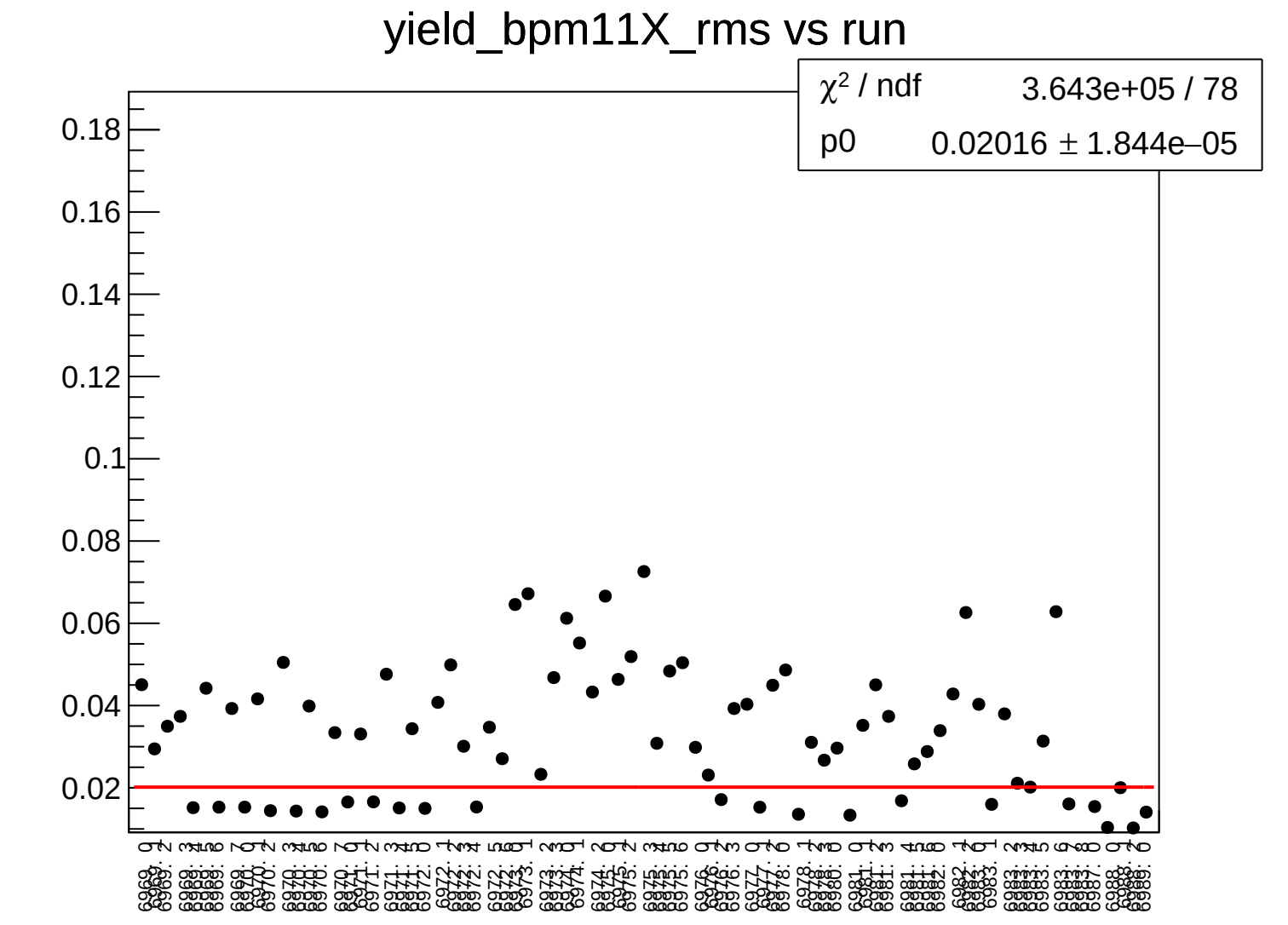

yield_bpm1Y_mean vs run
χ² / ndf 7.865e+06 / 78
p0 −1.972 ± 1.981e−05
−1.9
−1.95
−2
−2.05
−2.1
−2.15
pull
Entries 79
Mean −48.36
Std Dev 147.2
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400
−1600

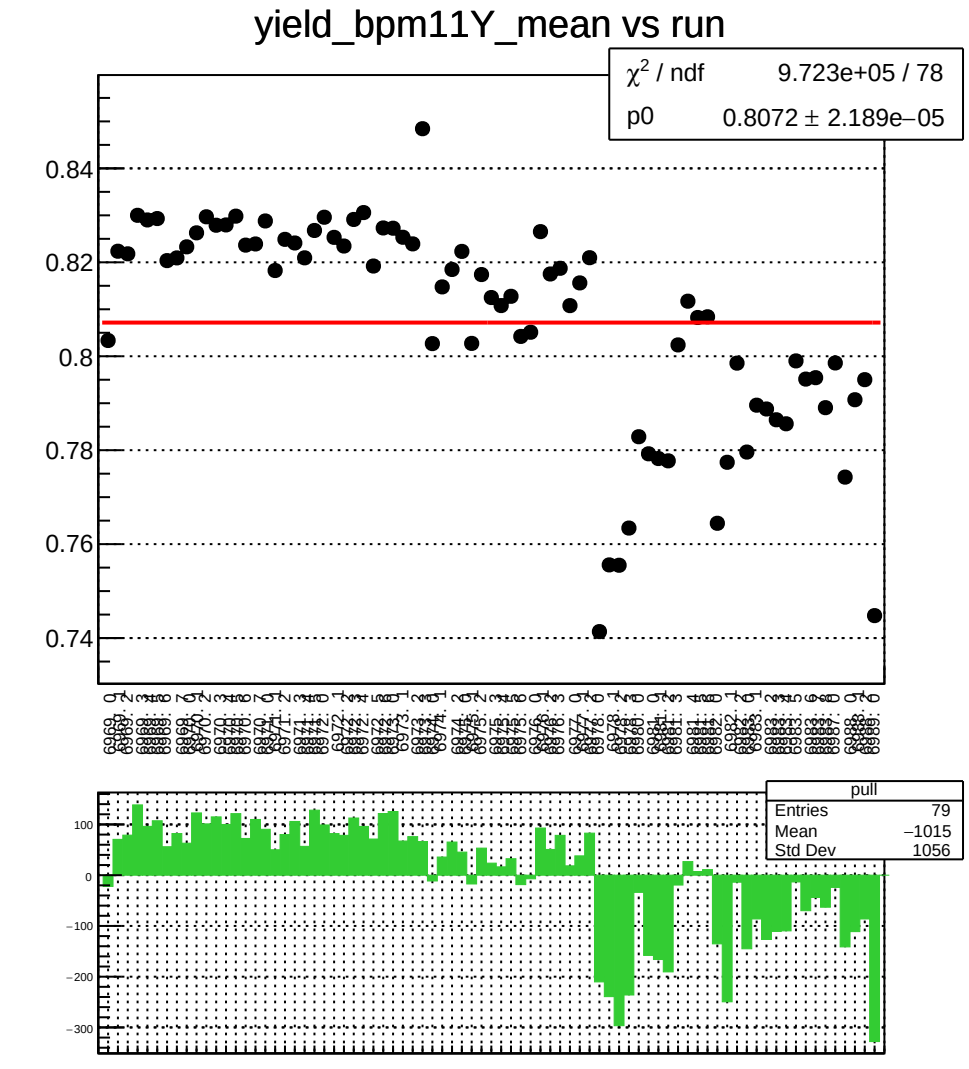

pull1D
Entries 79
Mean −3.045
Std Dev 1.756
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

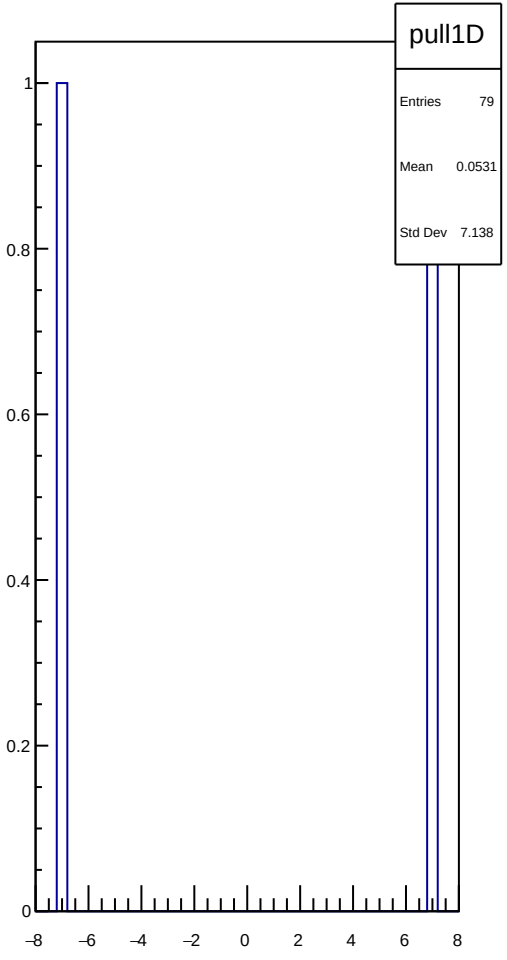

yield_bpm1Y_rms vs run
χ² / ndf 9.368e+04 / 78
p0 0.01696 ± 1.401e−05
0.06
0.05
0.04
0.03
0.02
0.01

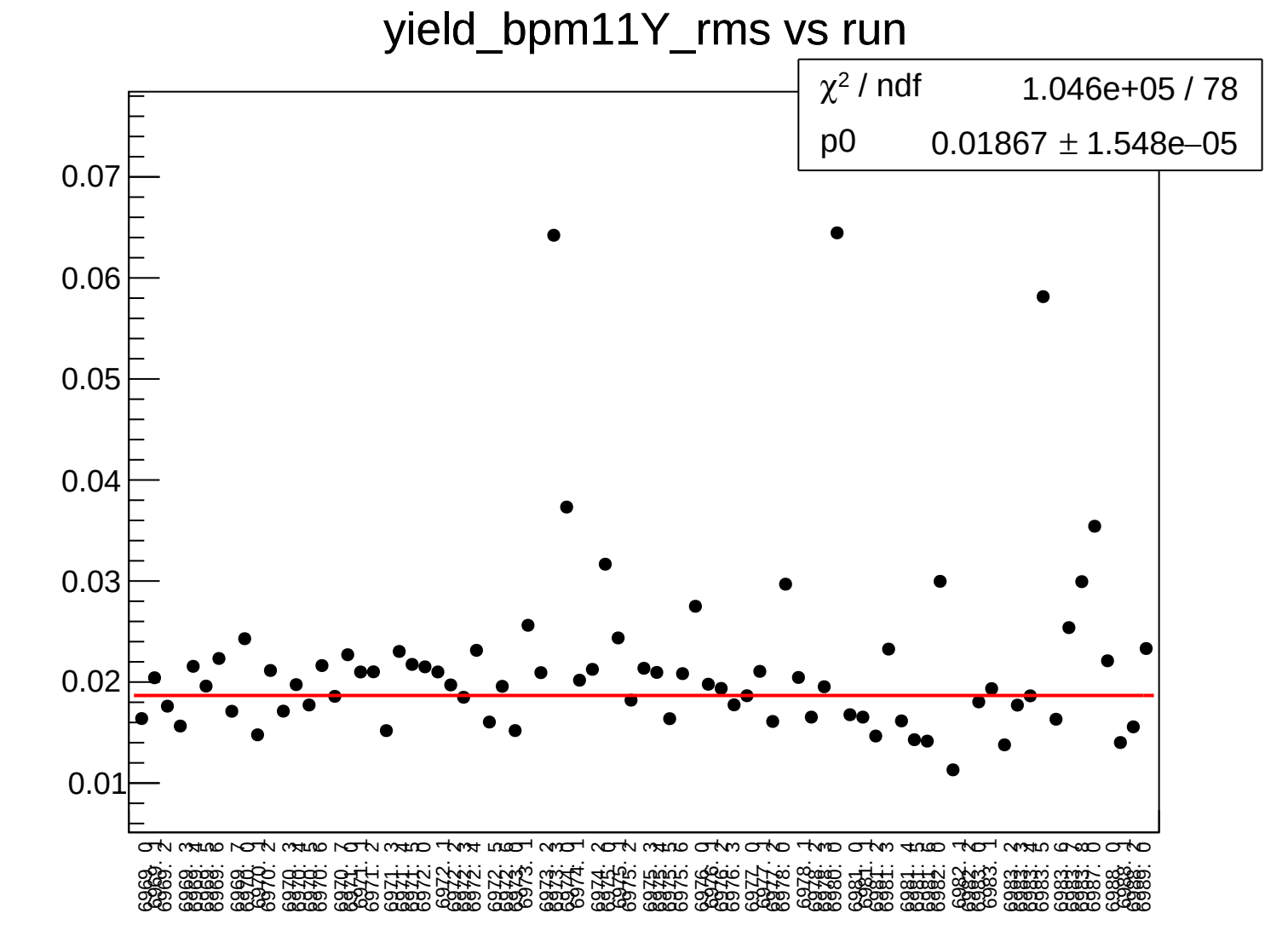

yield_bpm11X_mean vs run
χ² / ndf 4.87e+04 / 78
p0 0.6873 ± 2.608e−05
0.76
0.74
0.72
0.7
0.68
0.66
0.64
pull
Entries 79
Mean 127.6
Std Dev 90.03
60
40
20
0
−20
−40
−60
−80

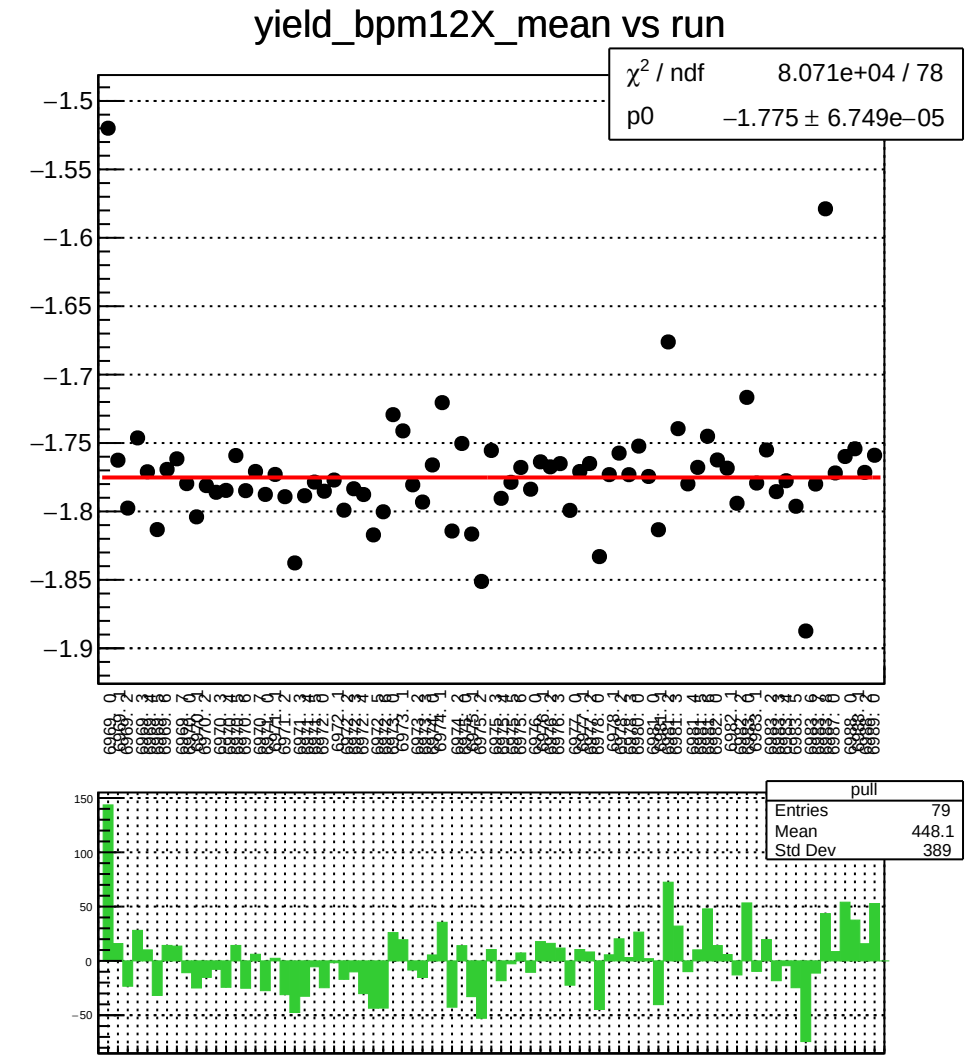

pull1D
Entries 79
Mean 0.09073
Std Dev 6.247
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

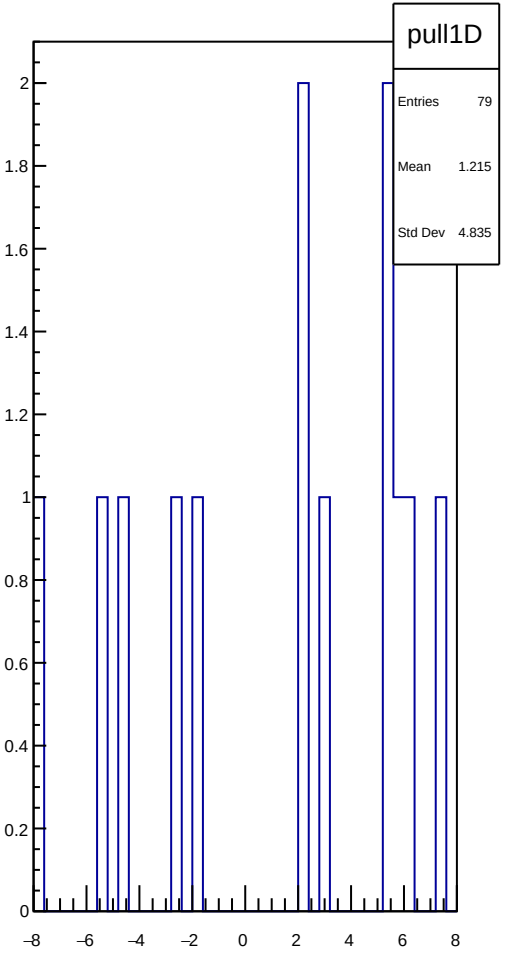

yield_bpm11X_rms vs run
χ² / ndf 3.643e+05 / 78
p0 0.02016 ± 1.844e−05
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

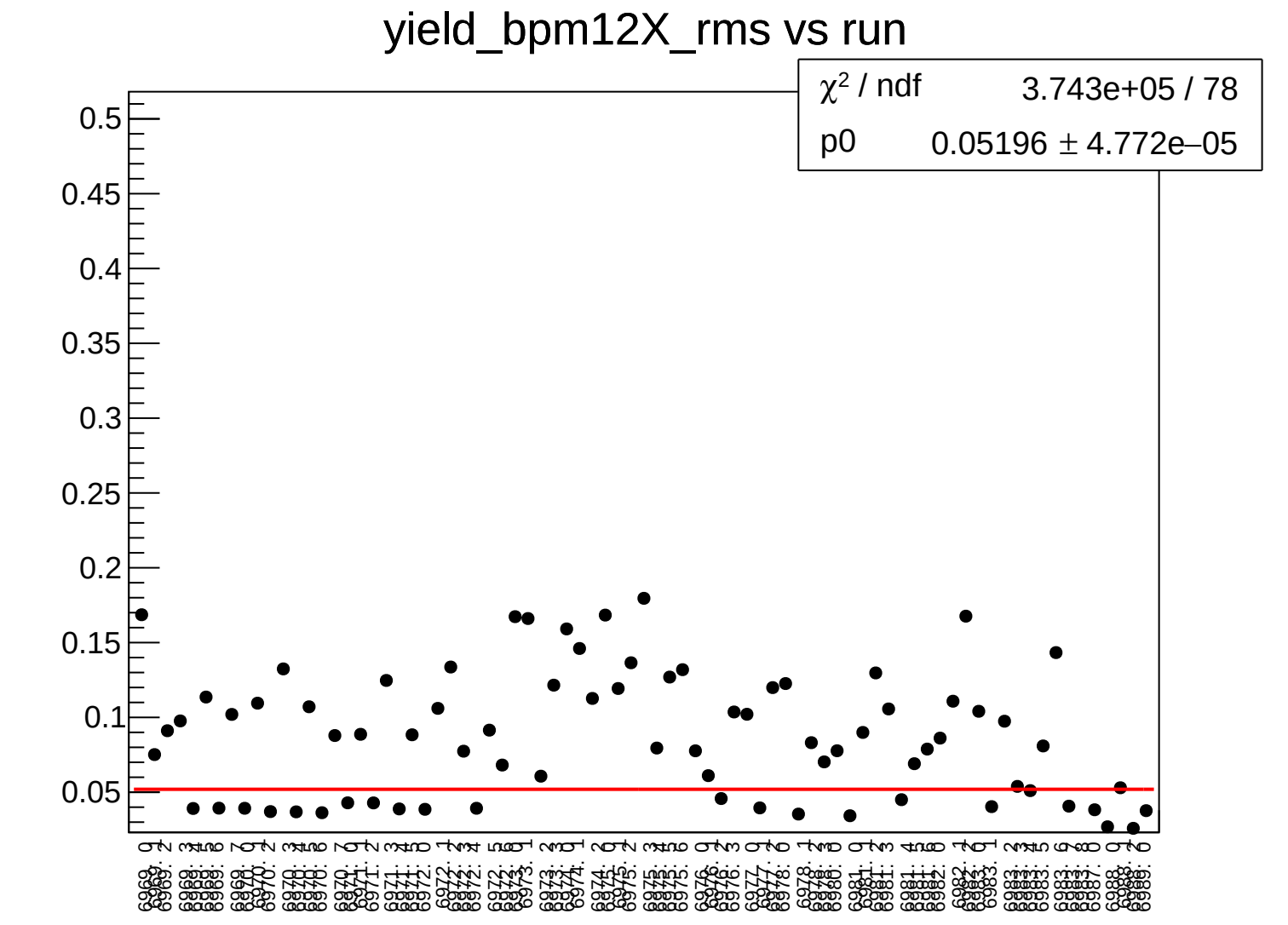

yield_bpm11Y_mean vs run
χ² / ndf 9.723e+05 / 78
p0 0.8072 ± 2.189e−05
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 79
Mean −1015
Std Dev 1056
100
0
−100
−200
−300

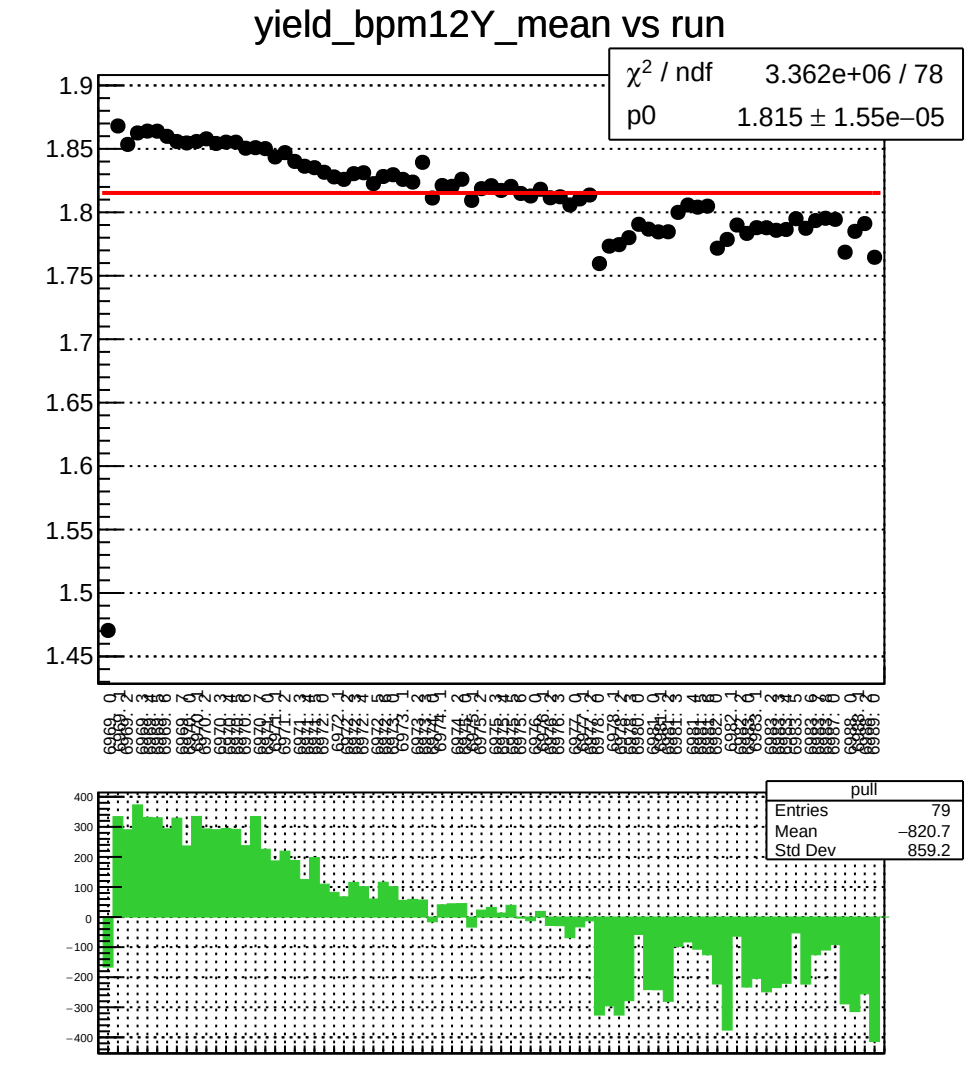

pull1D
Entries 79
Mean 0.0531
Std Dev 7.138
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

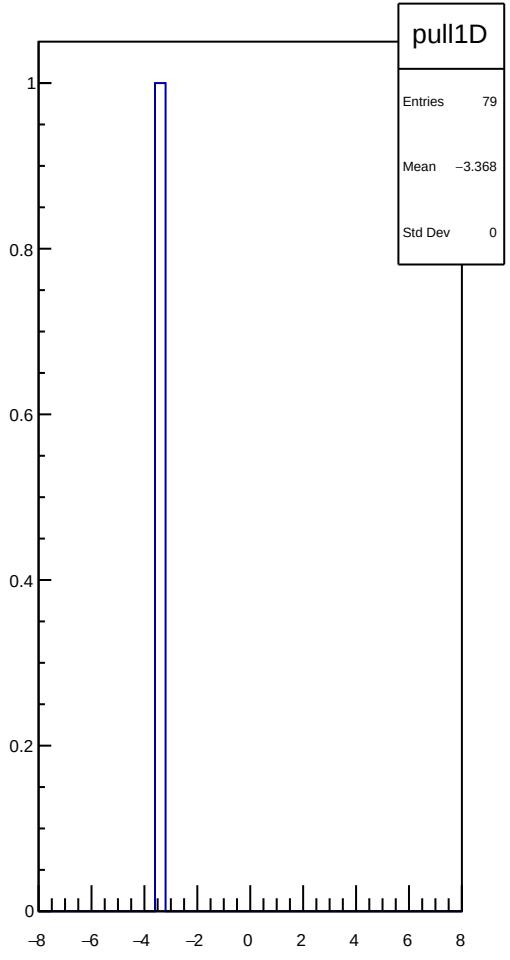

yield_bpm11Y_rms vs run
χ² / ndf 1.046e+05 / 78
p0 0.01867 ± 1.548e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

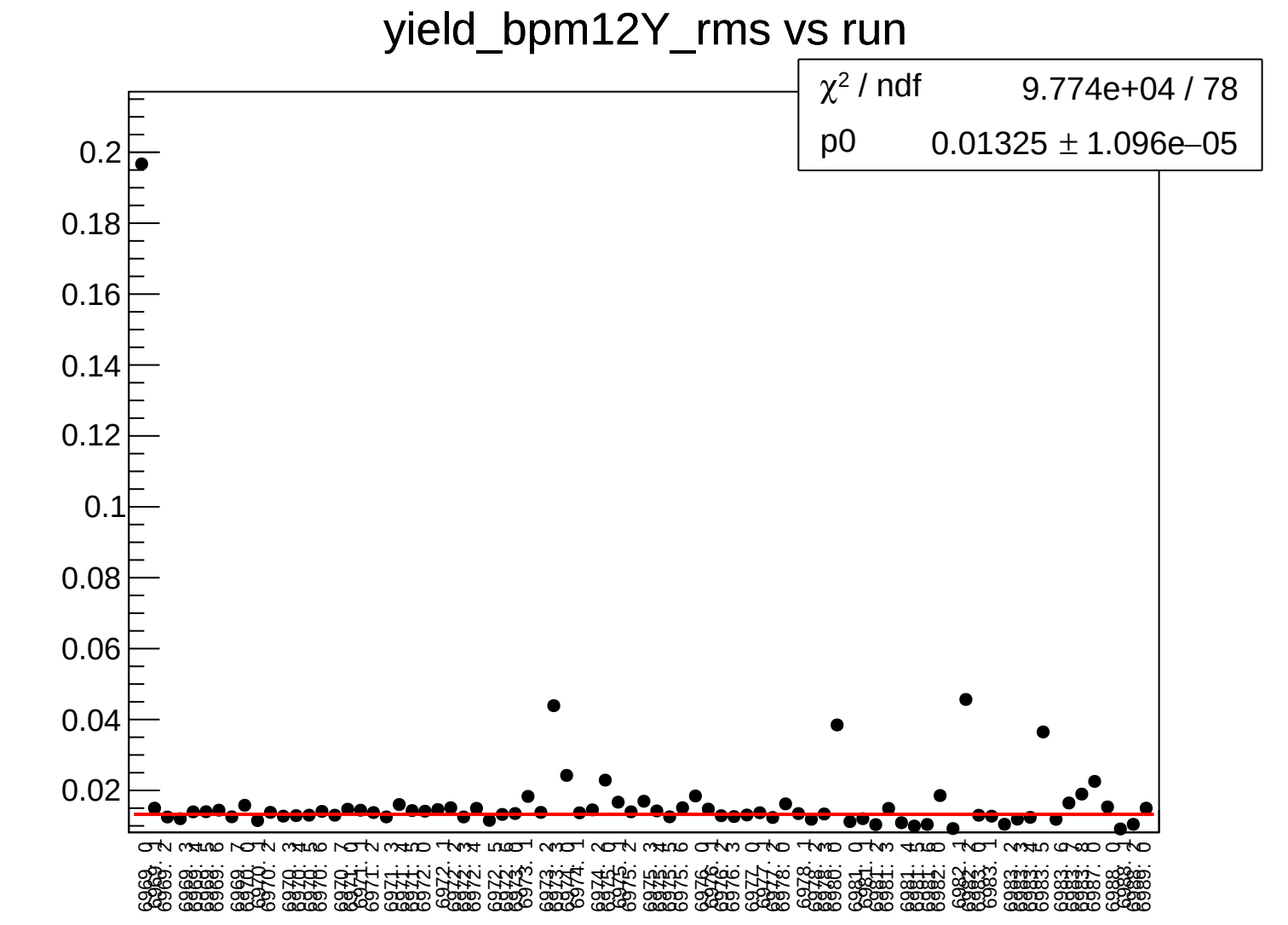

yield_bpm12X_mean vs run
χ² / ndf 8.071e+04 / 78
p0 −1.775 ± 6.749e−05
pull
Entries 79
Mean 448.1
Std Dev 389

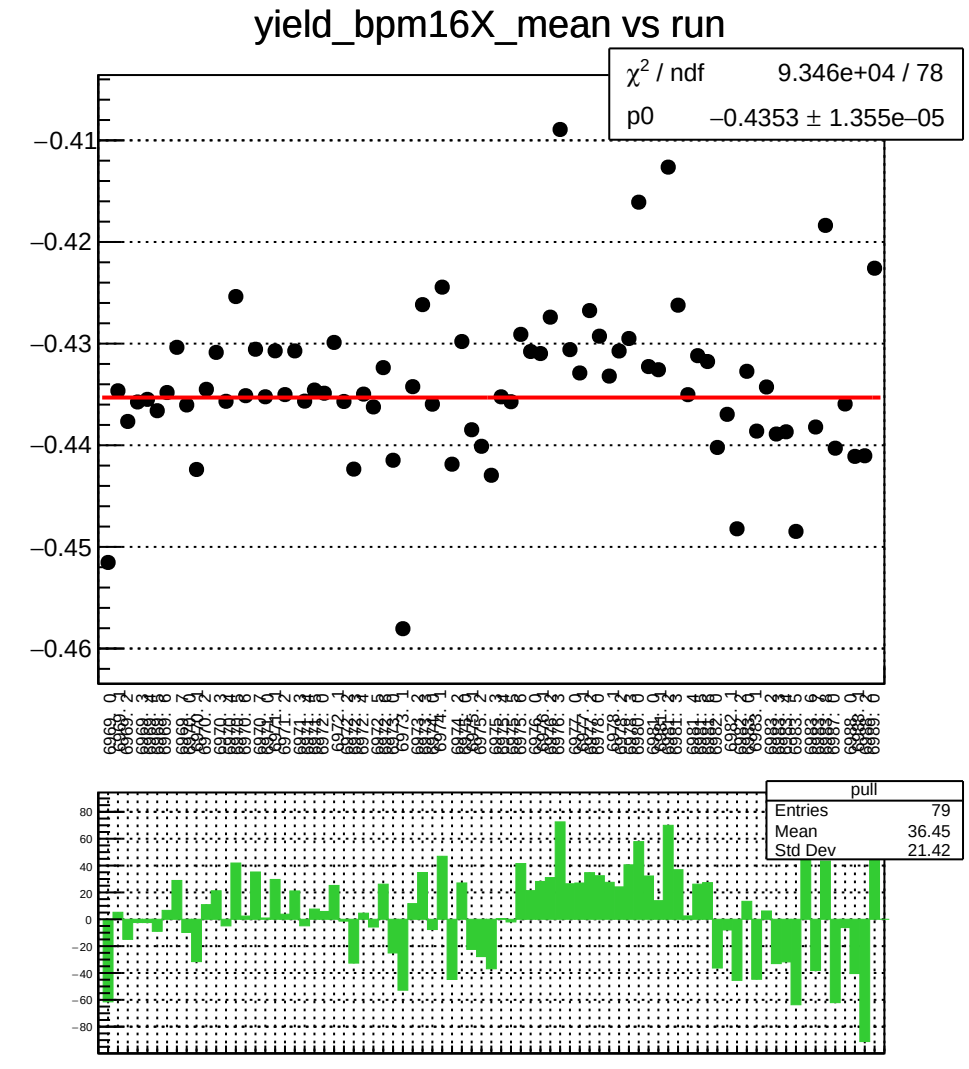

pull1D
Entries 79
Mean 1.215
Std Dev 4.835

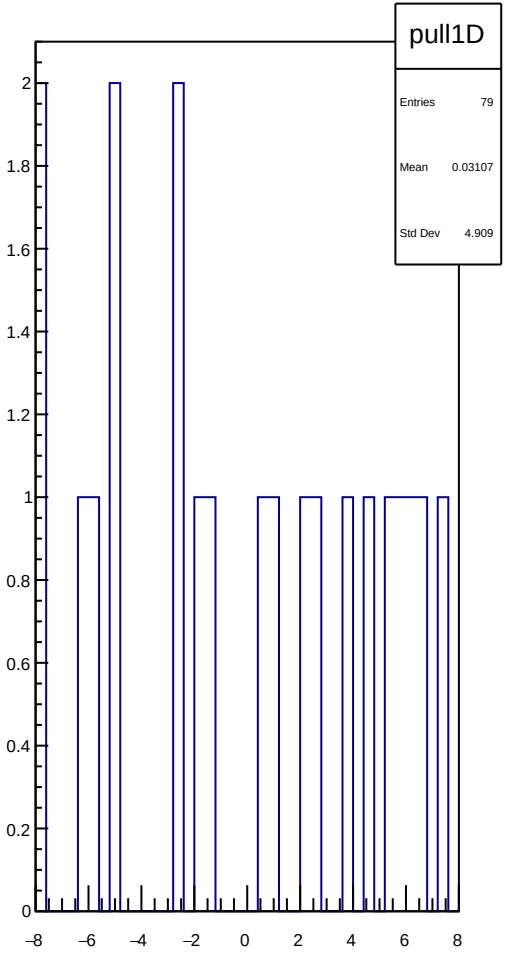

yield_bpm12X_rms vs run
χ² / ndf 3.743e+05 / 78
p0 0.05196 ± 4.772e−05
0.5
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

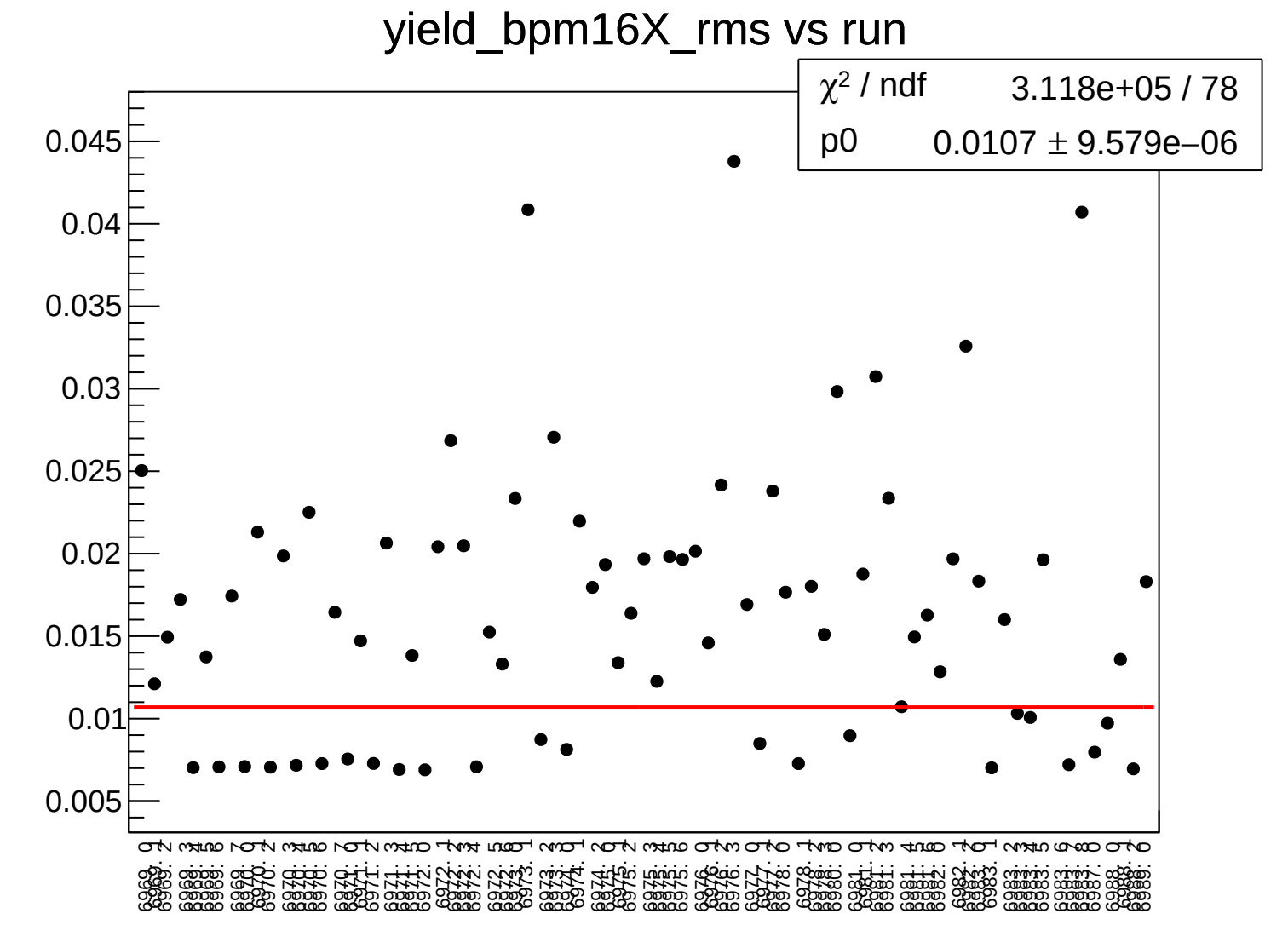

yield_bpm12Y_mean vs run
χ² / ndf 3.362e+06 / 78
p0 1.815 ± 1.55e−05
pull
Entries 79
Mean −820.7
Std Dev 859.2

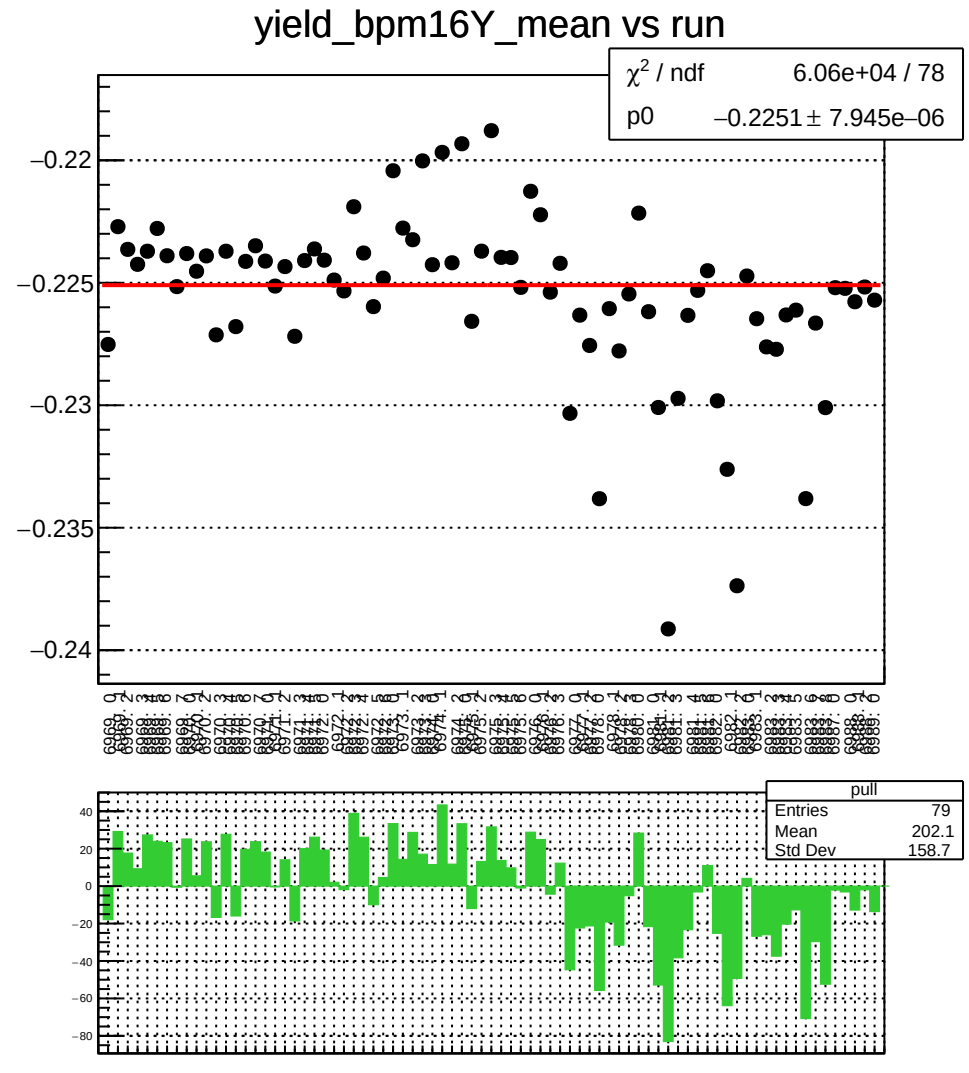

pull1D
Entries 79
Mean −3.368
Std Dev 0

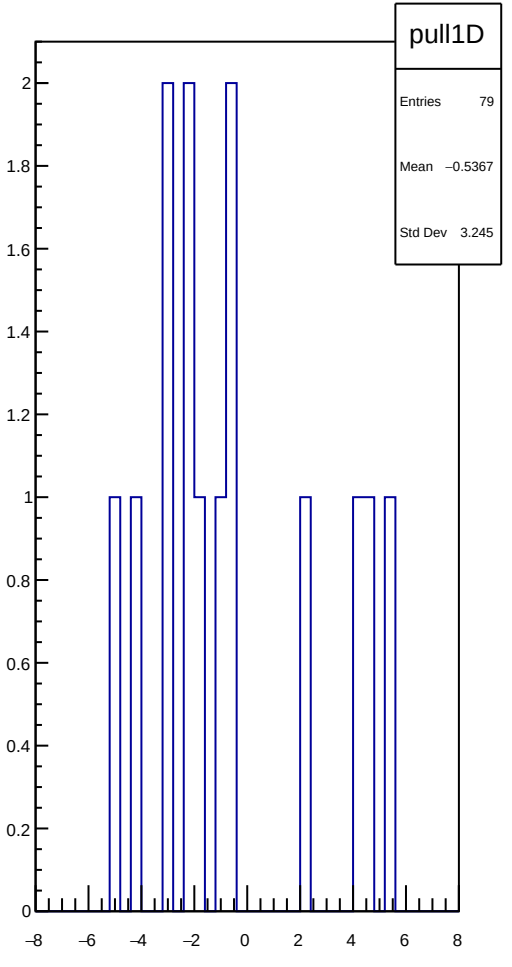

yield_bpm12Y_rms vs run
χ² / ndf 9.774e+04 / 78
p0 0.01325 ± 1.096e−05
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

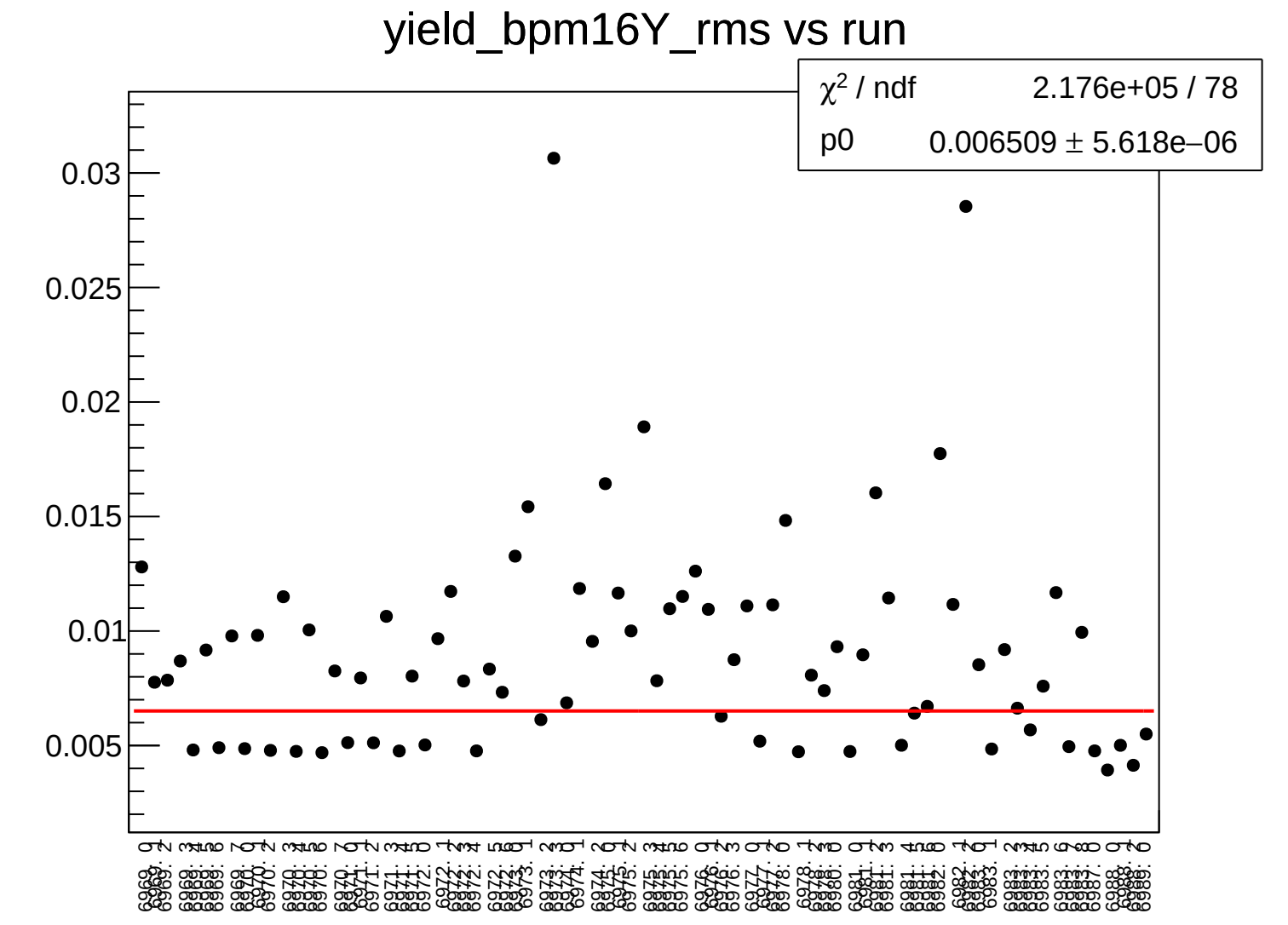

yield_bpm16X_mean vs run
χ² / ndf 9.346e+04 / 78
p0 −0.4353 ± 1.355e−05
−0.41
−0.42
−0.43
−0.44
−0.45
−0.46
pull
Entries 79
Mean 36.45
Std Dev 21.42
80
60
40
20
0
−20
−40
−60
−80

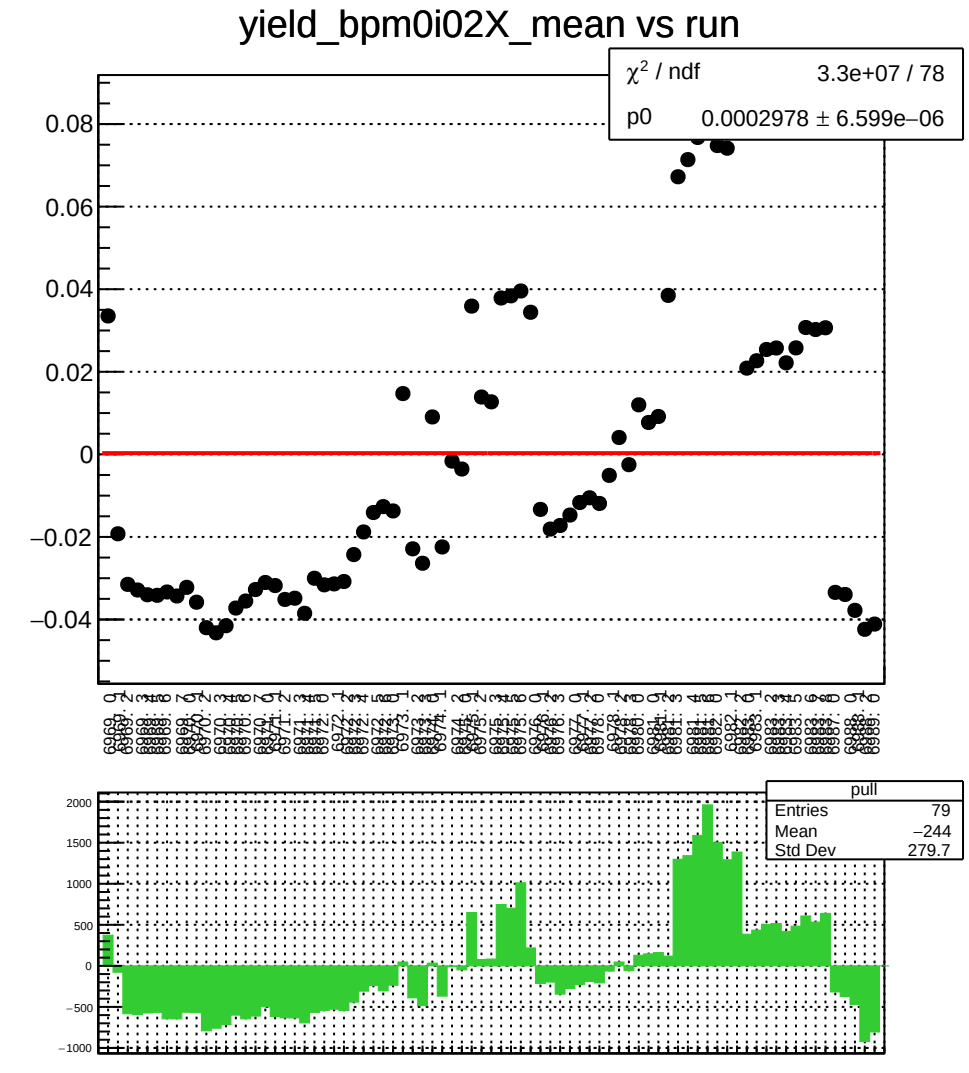

pull1D
Entries 79
Mean 0.03107
Std Dev 4.909
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

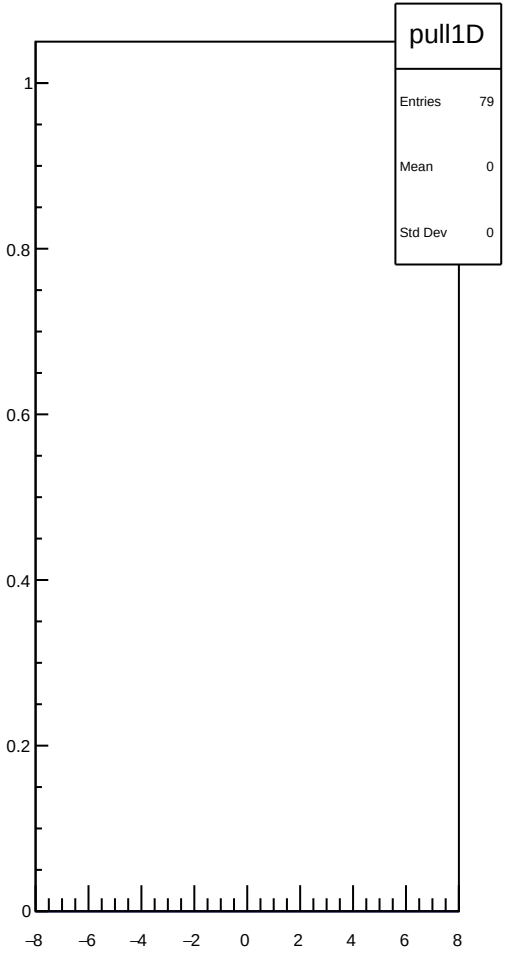

yield_bpm16X_rms vs run
χ² / ndf 3.118e+05 / 78
p0 0.0107 ± 9.579e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

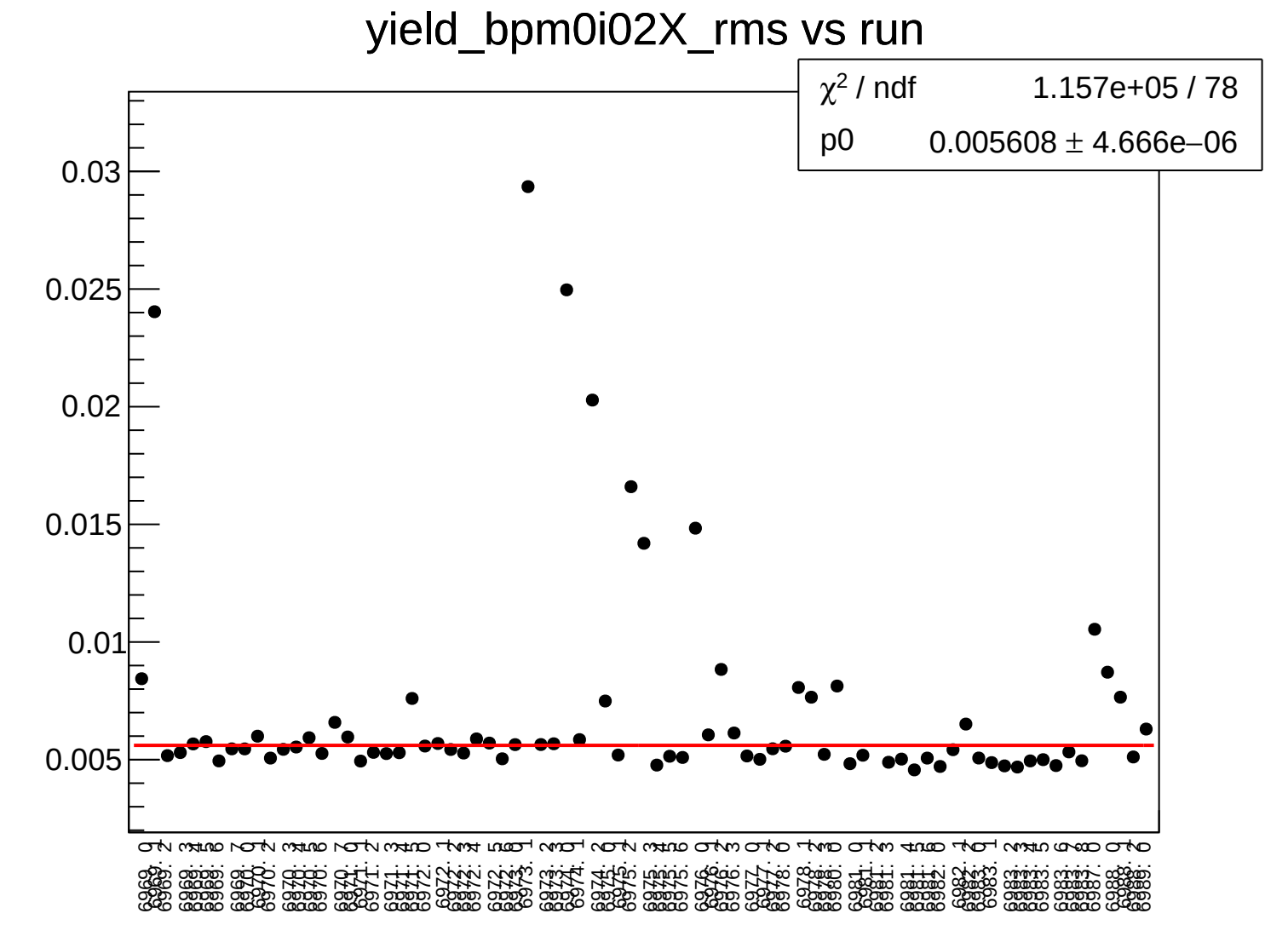

yield_bpm16Y_mean vs run
χ² / ndf 6.06e+04 / 78
p0 −0.2251 ± 7.945e−06
−0.22
−0.225
−0.23
−0.235
−0.24
pull
Entries 79
Mean 202.1
Std Dev 158.7
40
20
0
−20
−40
−60
−80

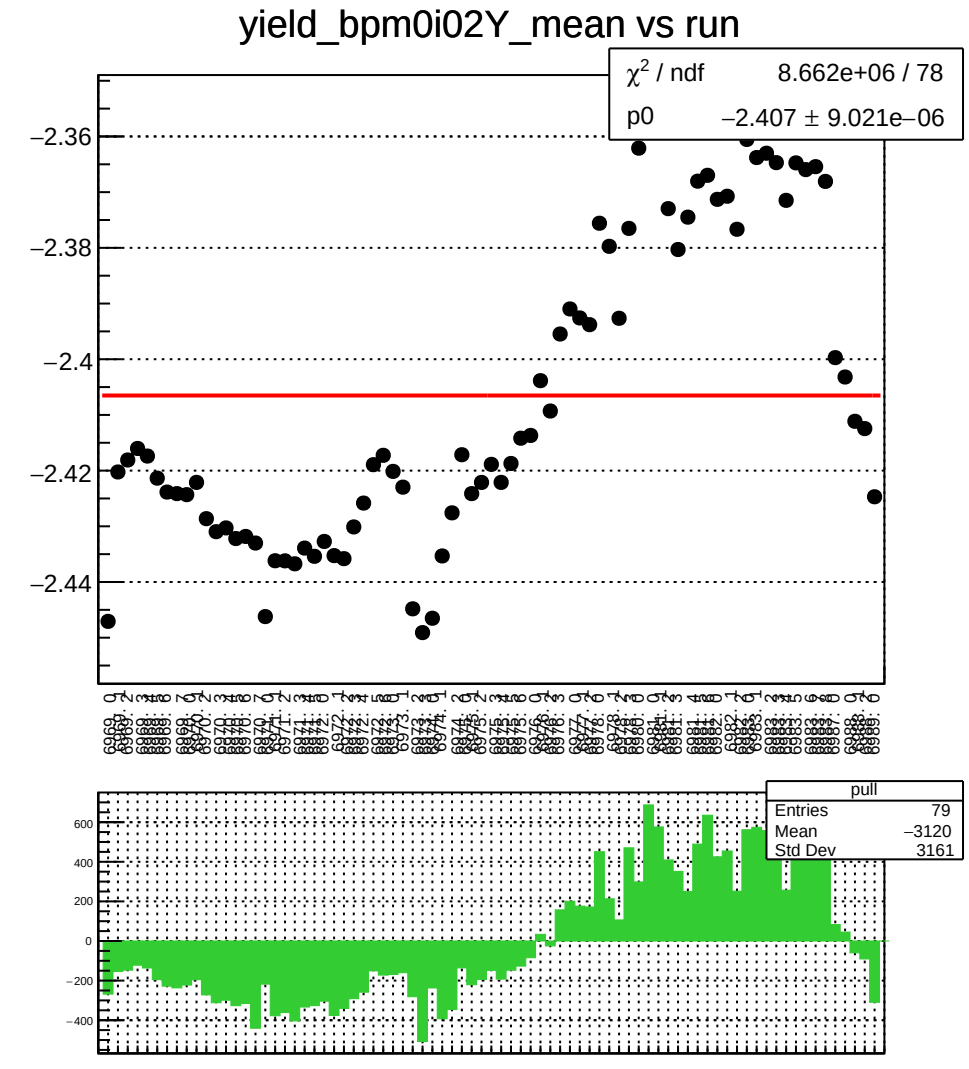

pull1D
Entries 79
Mean −0.5367
Std Dev 3.245
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

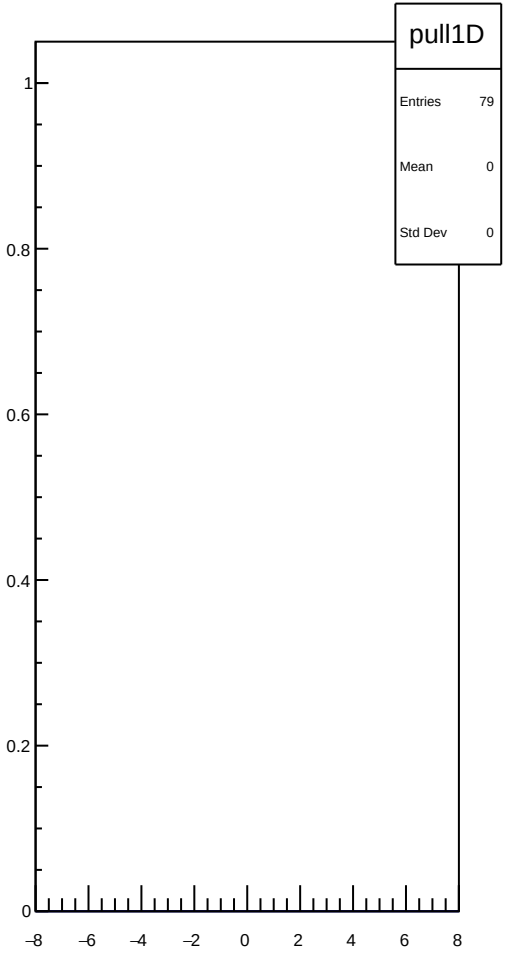

yield_bpm16Y_rms vs run
χ² / ndf 2.176e+05 / 78
p0 0.006509 ± 5.618e−06
0.03
0.025
0.02
0.015
0.01
0.005

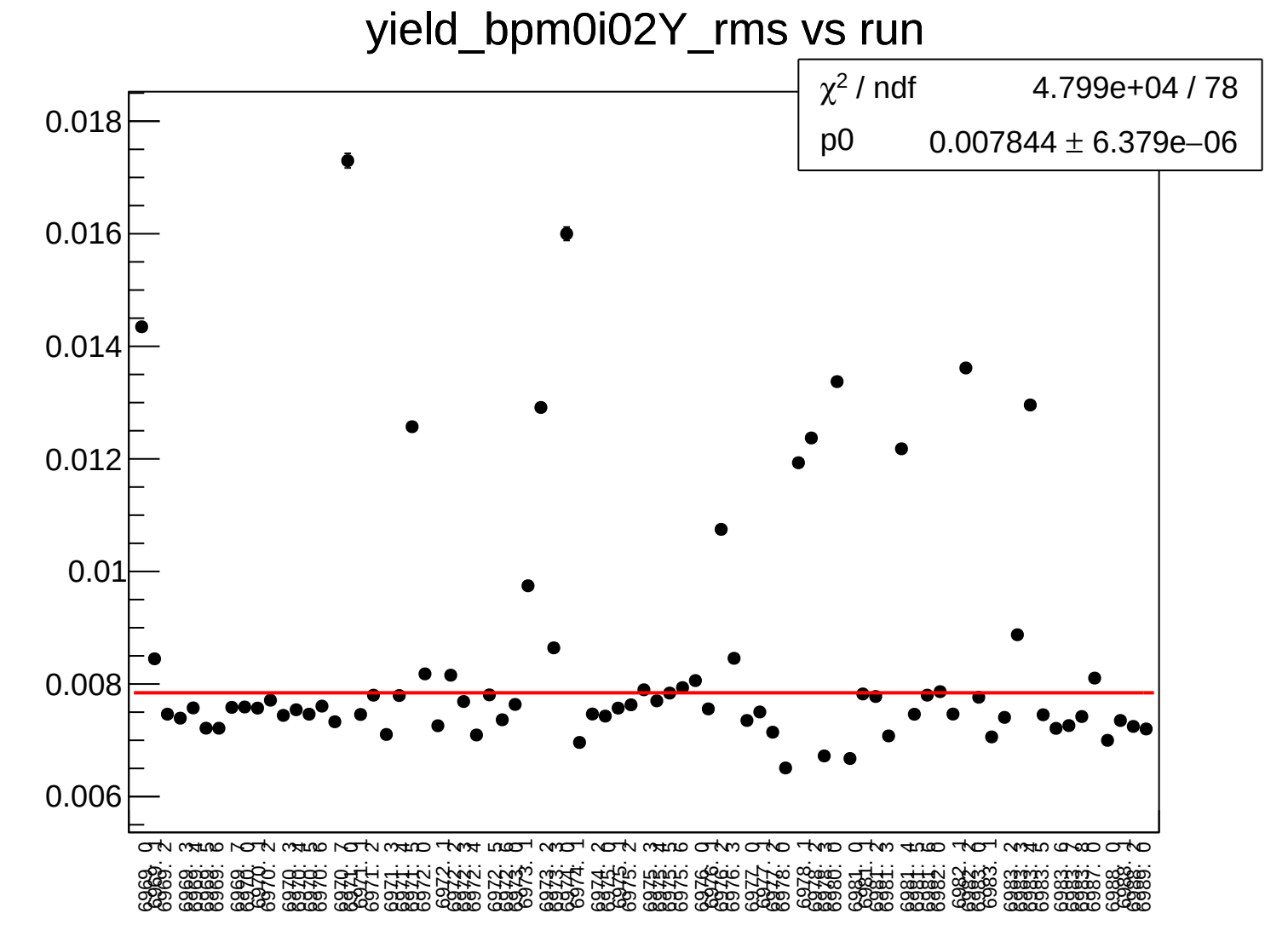

yield_bpm0i02X_mean vs run
χ² / ndf 3.3e+07 / 78
p0 0.0002978 ± 6.599e−06
0.08
0.06
0.04
0.02
0
−0.02
−0.04
pull
Entries 79
Mean −244
Std Dev 279.7
2000
1500
1000
500
0
−500
−1000

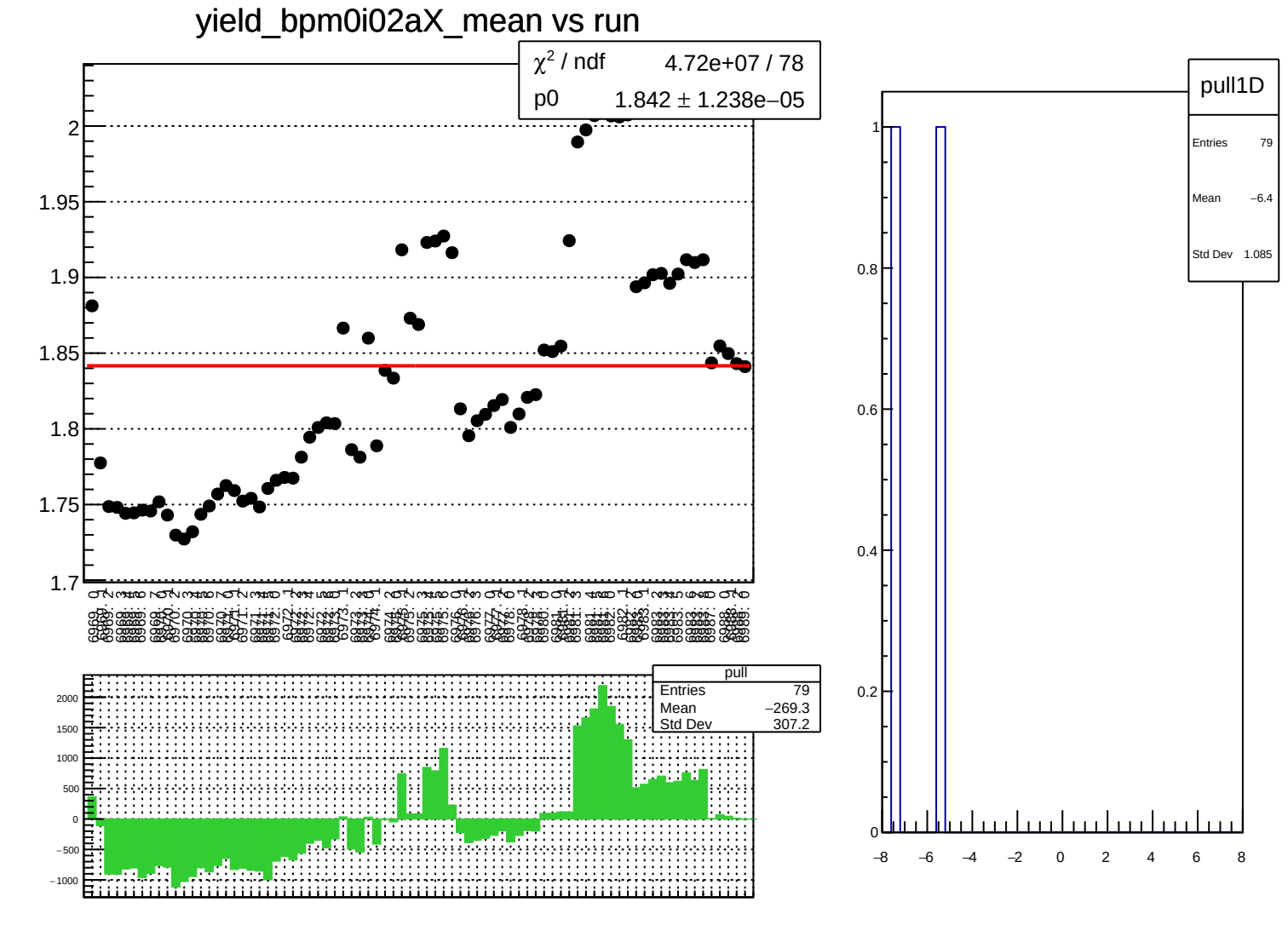

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

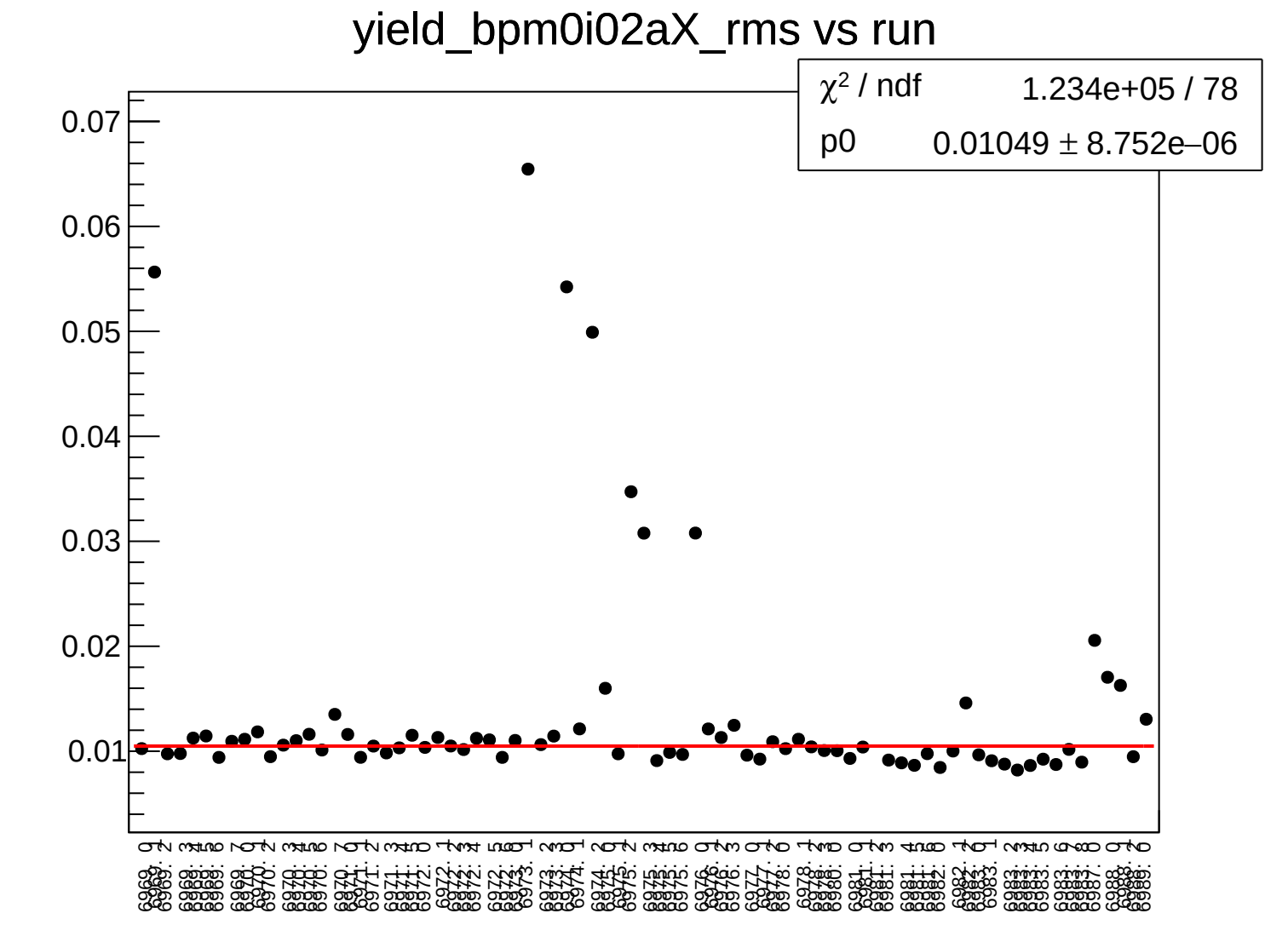

yield_bpm0i02X_rms vs run
χ^2 / ndf 1.157e+05 / 78
p0 0.005608 ± 4.666e−06
0.03
0.025
0.02
0.015
0.01
0.005

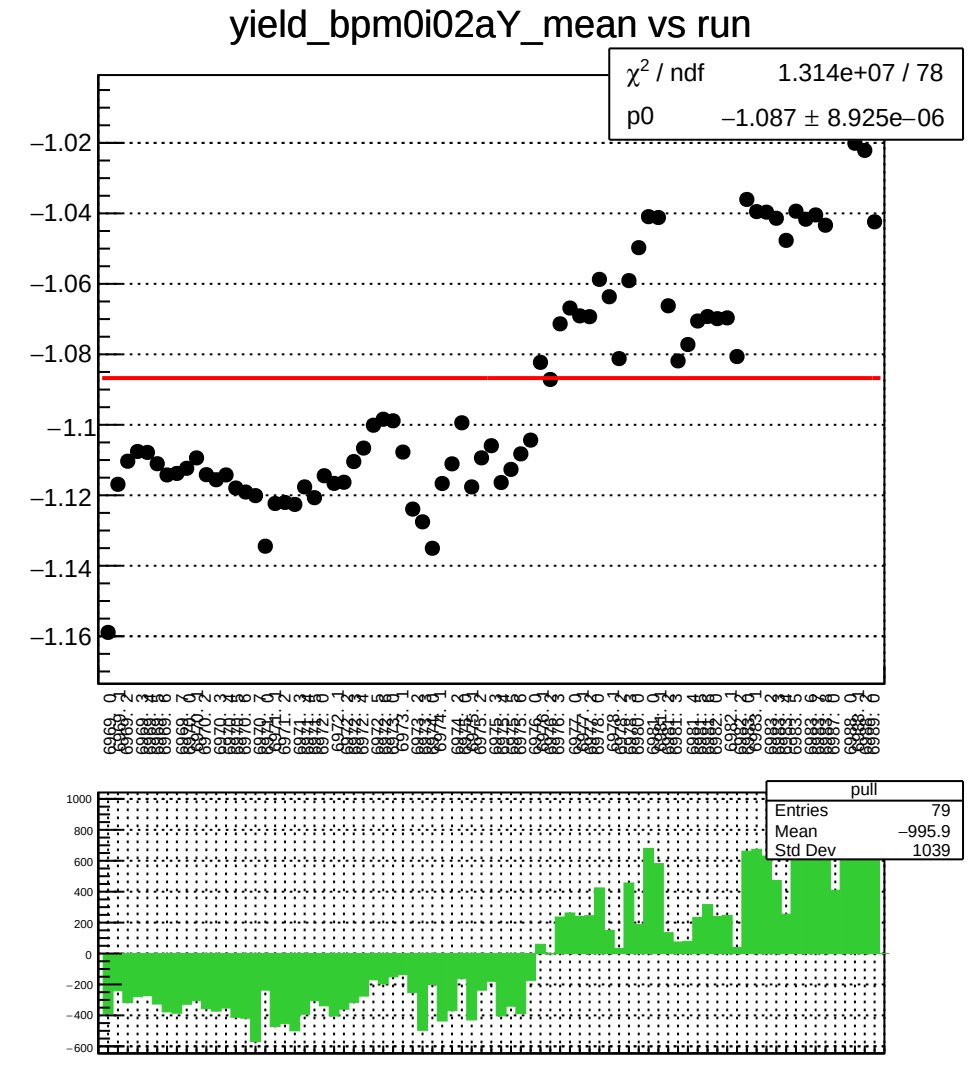

yield_bpm0i02Y_mean vs run
χ² / ndf 8.662e+06 / 78
p0 −2.407 ± 9.021e−06
−2.36
−2.38
−2.4
−2.42
−2.44
pull
Entries 79
Mean −3120
Std Dev 3161
600
400
200
0
−200
−400

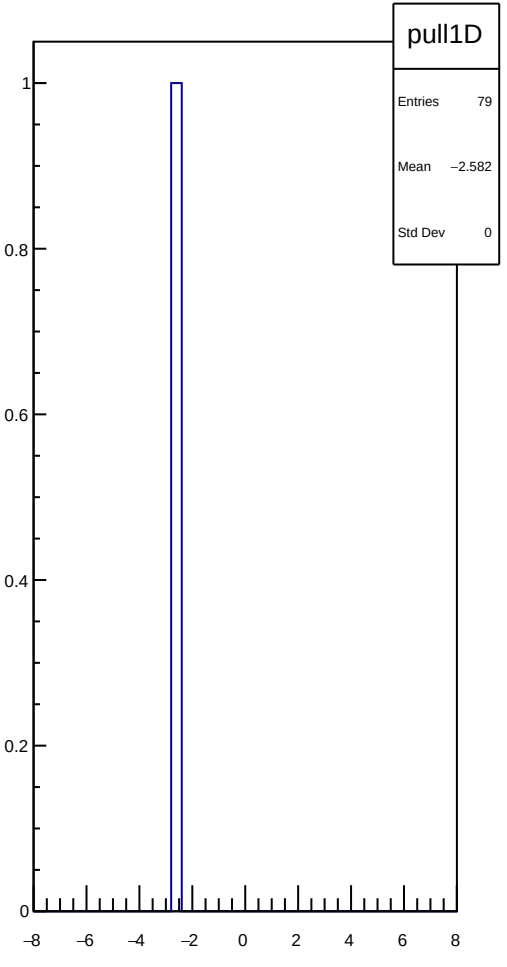

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

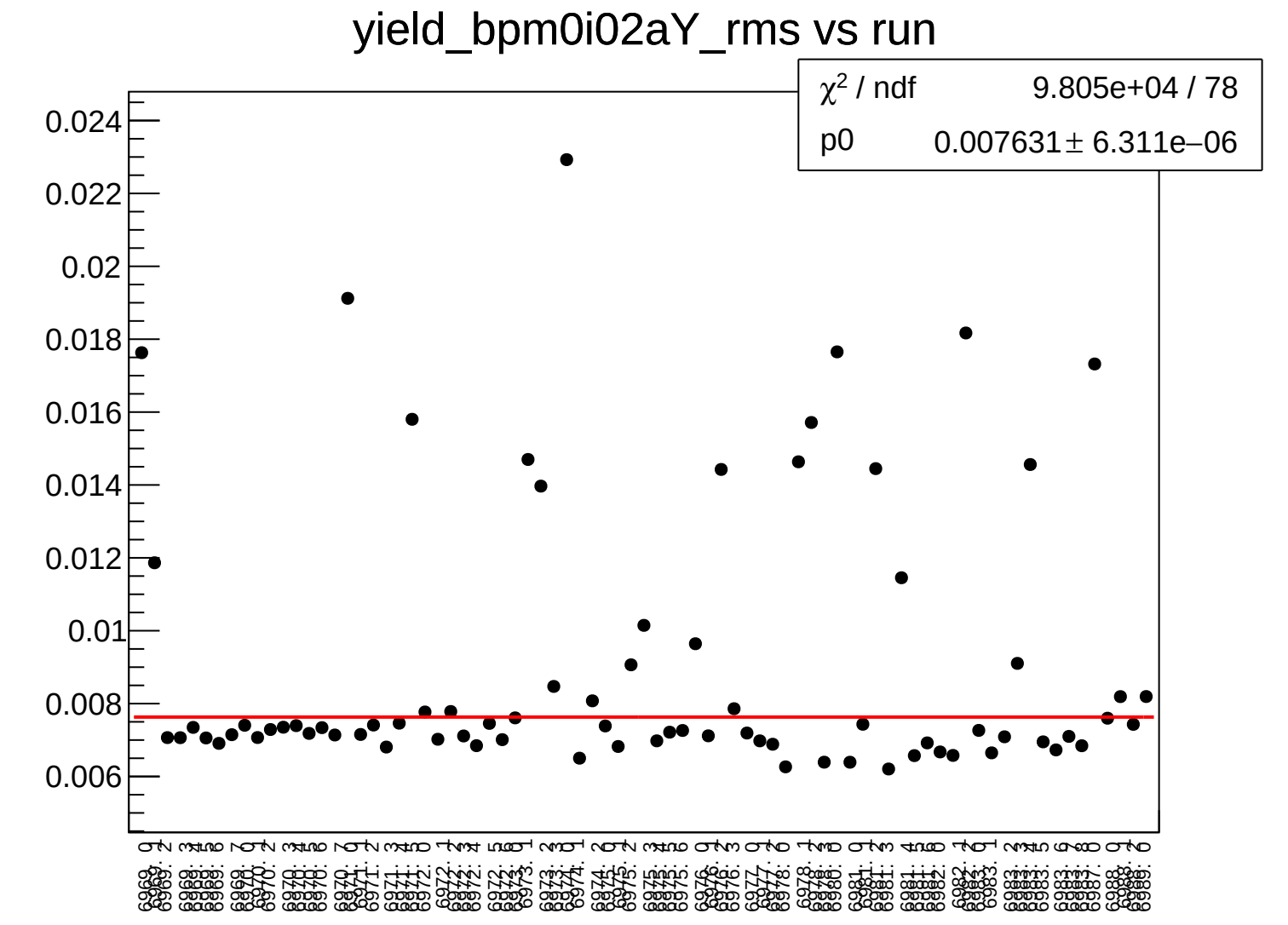

yield_bpm0i02Y_rms vs run
χ² / ndf 4.799e+04 / 78
p0 0.007844 ± 6.379e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

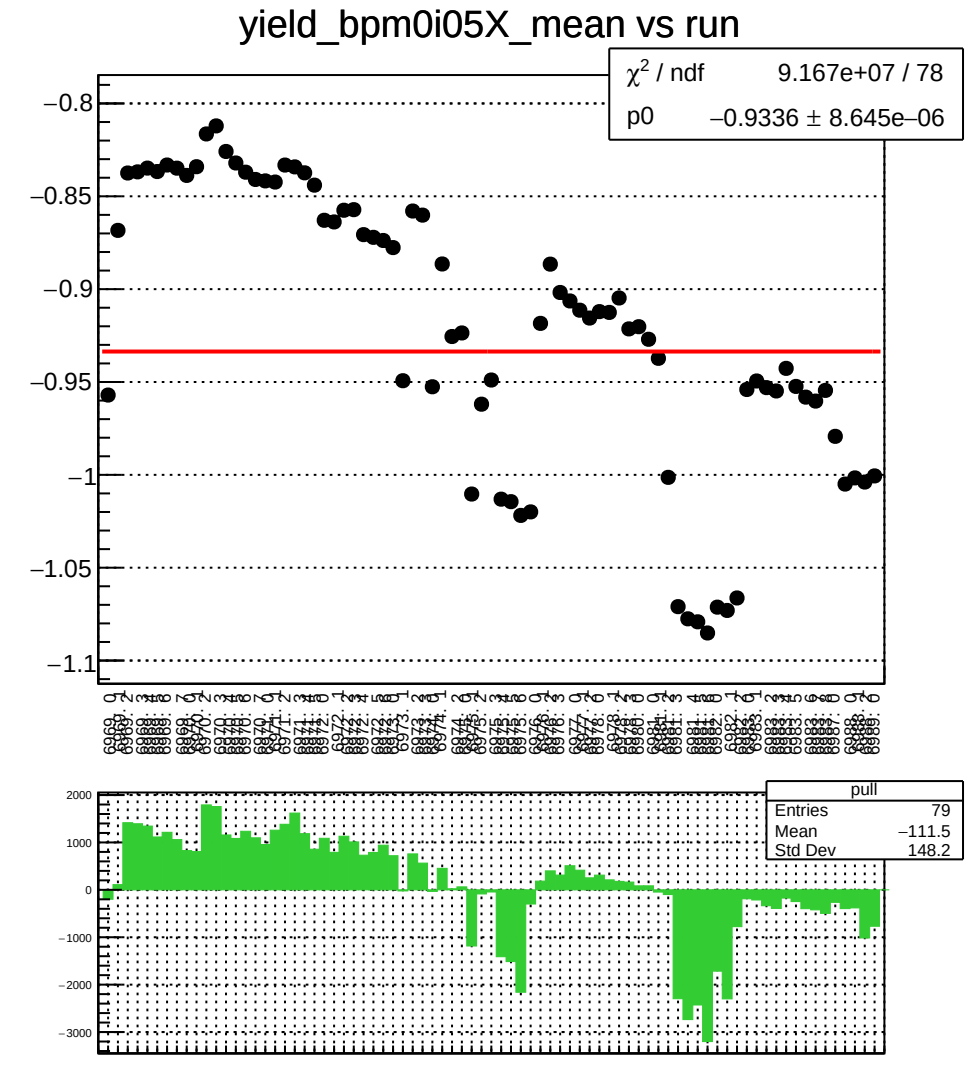

yield_bpm0i02aX_mean vs run
χ² / ndf 4.72e+07 / 78
p0 1.842 ± 1.238e−05
pull
Entries 79
Mean −269.3
Std Dev 307.2
pull1D
Entries 79
Mean −6.4
Std Dev 1.085

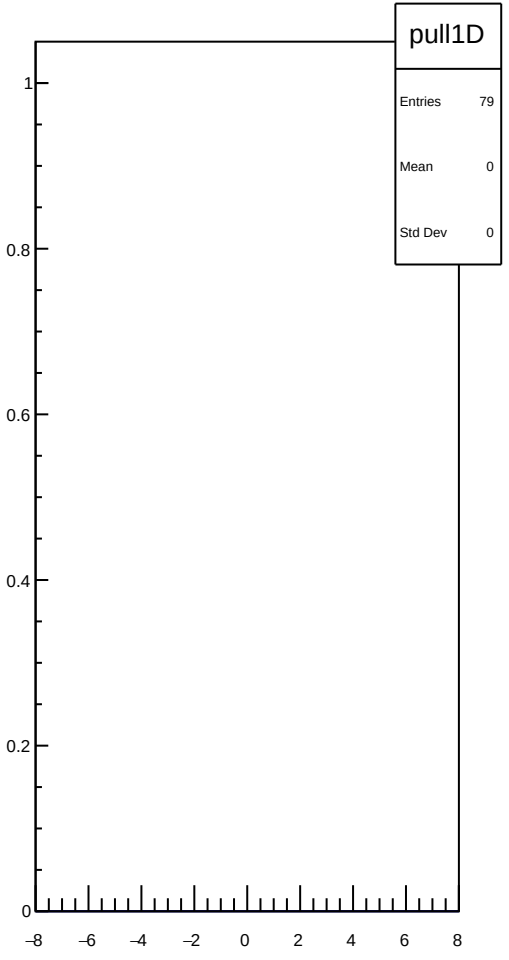

yield_bpm0i02aX_rms vs run
χ² / ndf 1.234e+05 / 78
p0 0.01049 ± 8.752e–06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

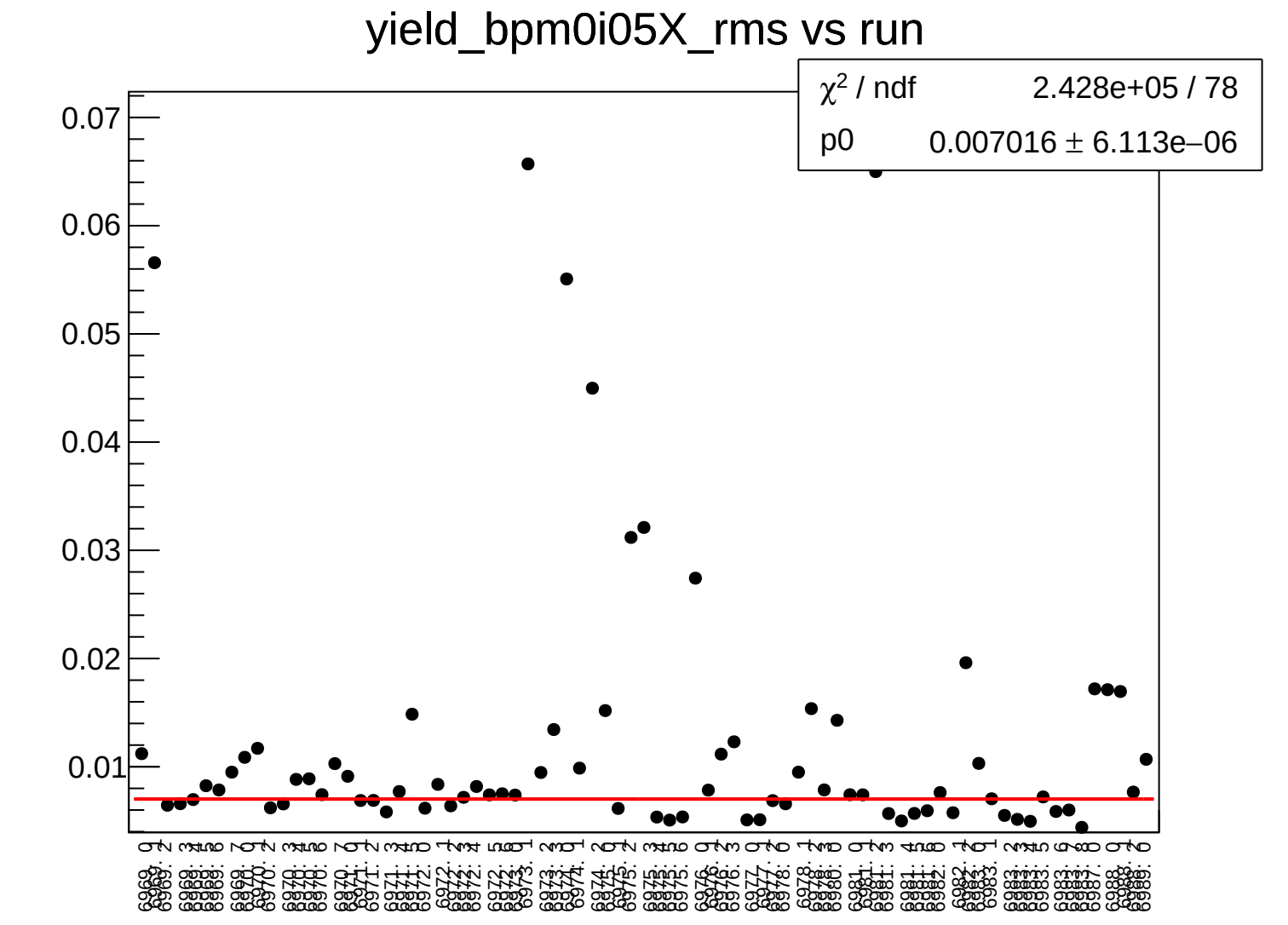

yield_bpm0i02aY_mean vs run
χ² / ndf 1.314e+07 / 78
p0 −1.087 ± 8.925e−06
−1.02
−1.04
−1.06
−1.08
−1.1
−1.12
−1.14
−1.16
pull
Entries 79
Mean −995.9
Std Dev 1039
1000
800
600
400
200
0
−200
−400
−600

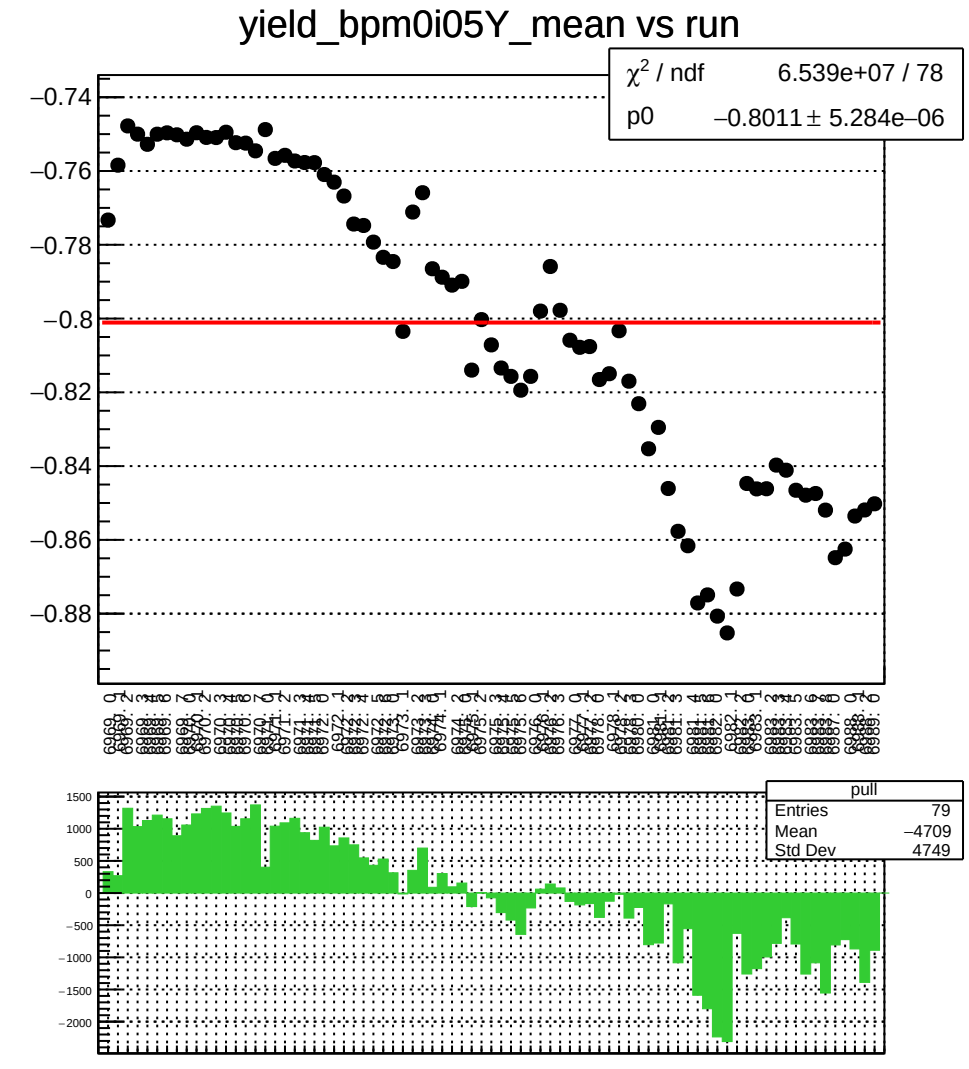

pull1D
Entries 79
Mean −2.582
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

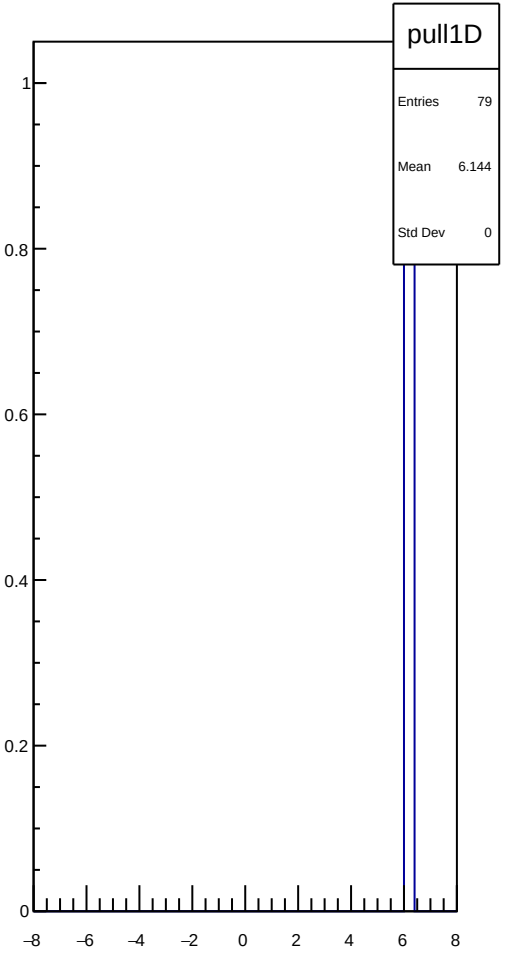

yield_bpm0i02aY_rms vs run
χ² / ndf 9.805e+04 / 78
p0 0.007631 ± 6.311e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

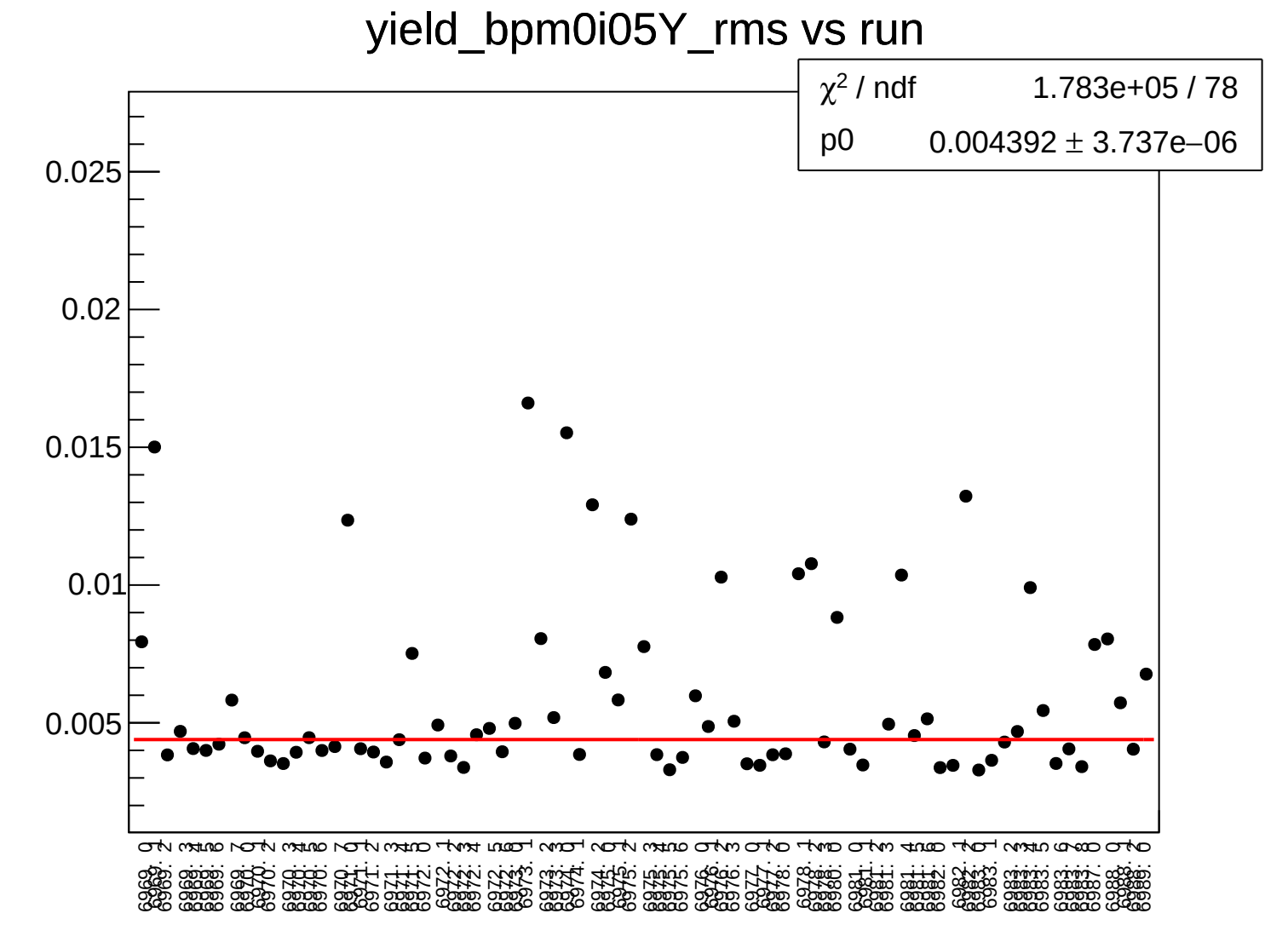

yield_bpm0i05X_mean vs run
χ² / ndf 9.167e+07 / 78
p0 −0.9336 ± 8.645e−06
−0.8
−0.85
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 79
Mean −111.5
Std Dev 148.2
2000
1000
0
−1000
−2000
−3000

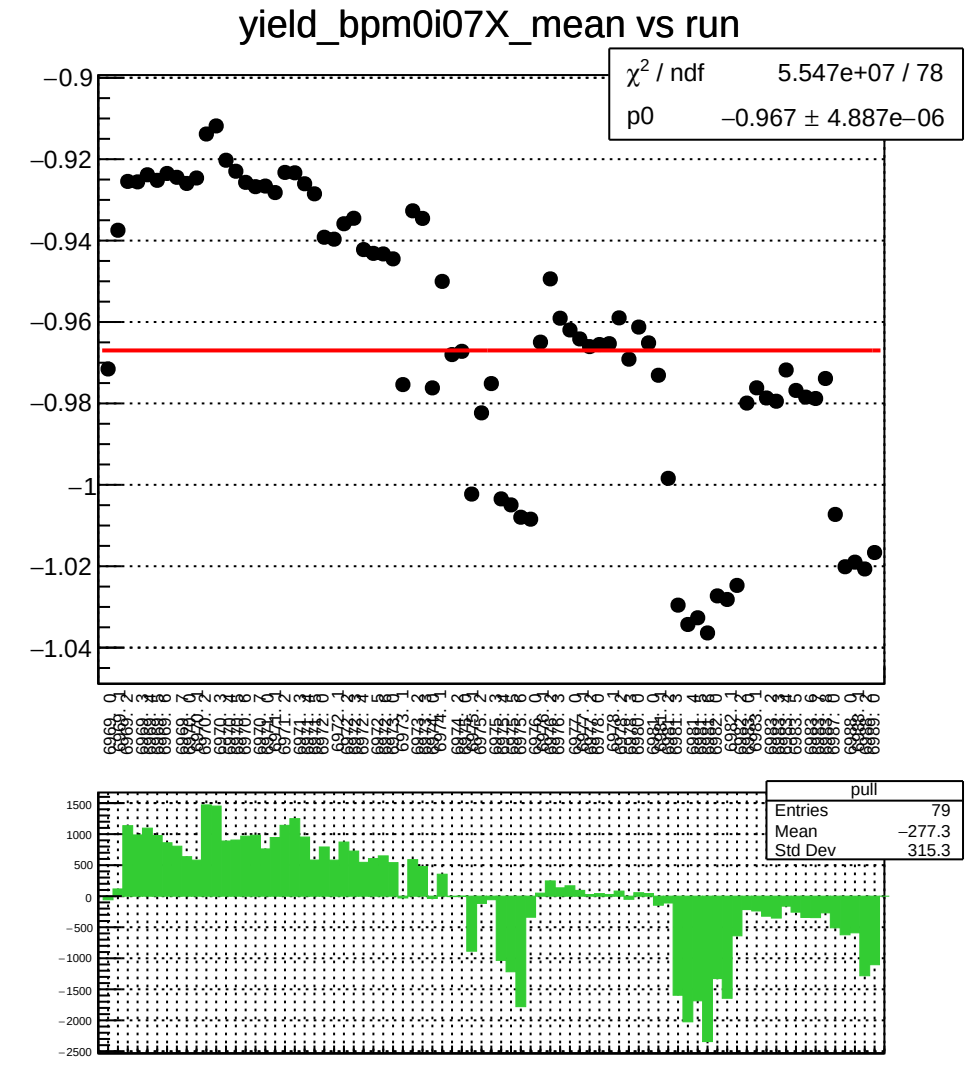

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

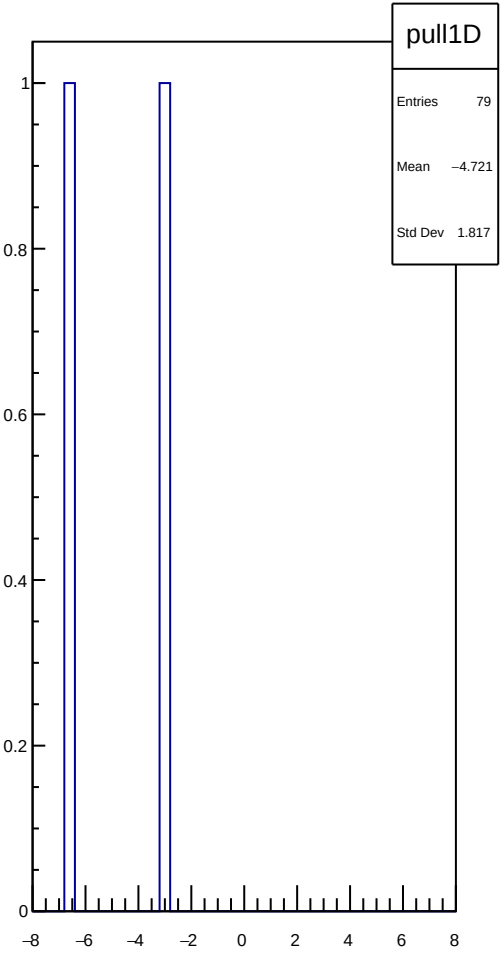

yield_bpm0i05X_rms vs run
χ² / ndf 2.428e+05 / 78
p0 0.007016 ± 6.113e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

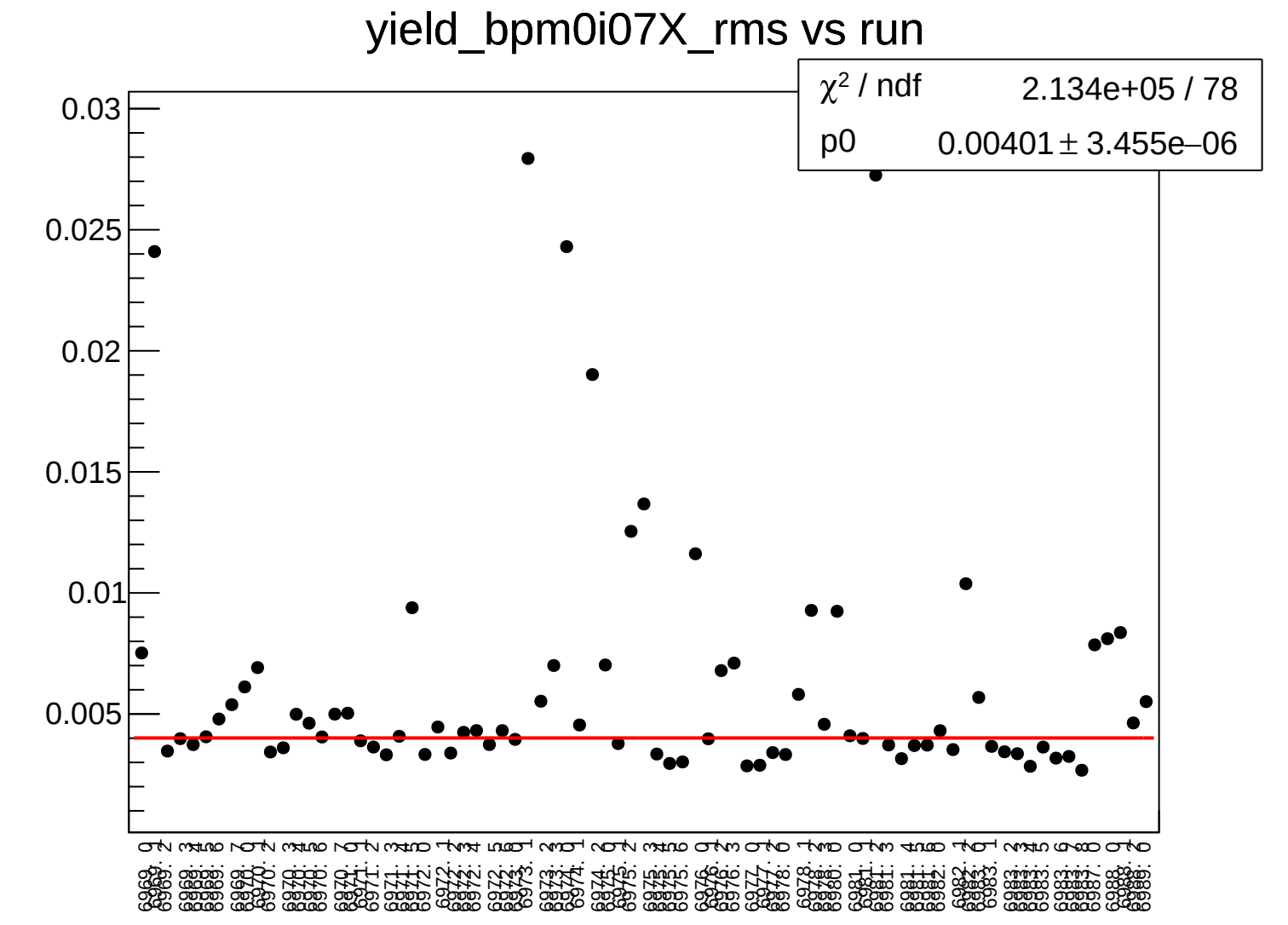

yield_bpm0i05Y_mean vs run
χ² / ndf 6.539e+07 / 78
p0 −0.8011 ± 5.284e−06
−0.74
−0.76
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
pull
Entries 79
Mean −4709
Std Dev 4749
1500
1000
500
0
−500
−1000
−1500
−2000

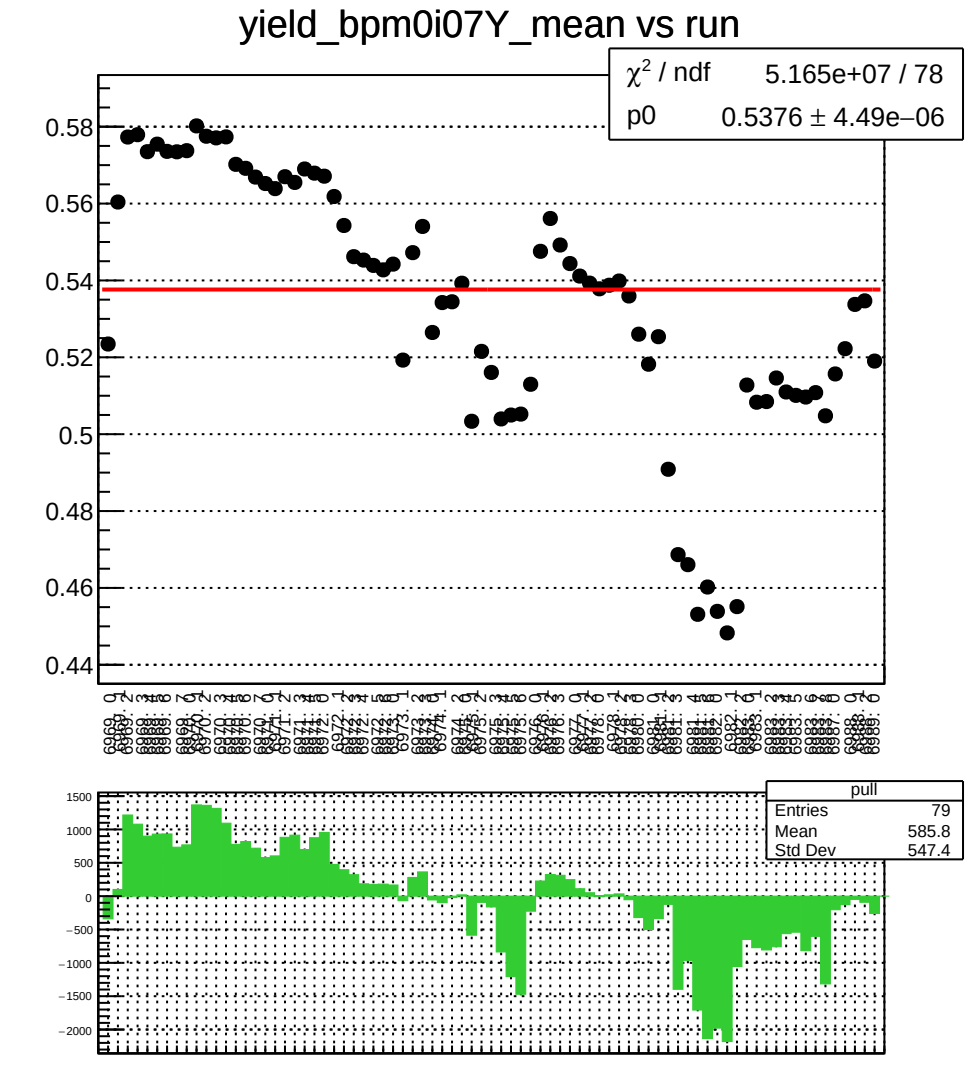

pull1D
Entries 79
Mean 6.144
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

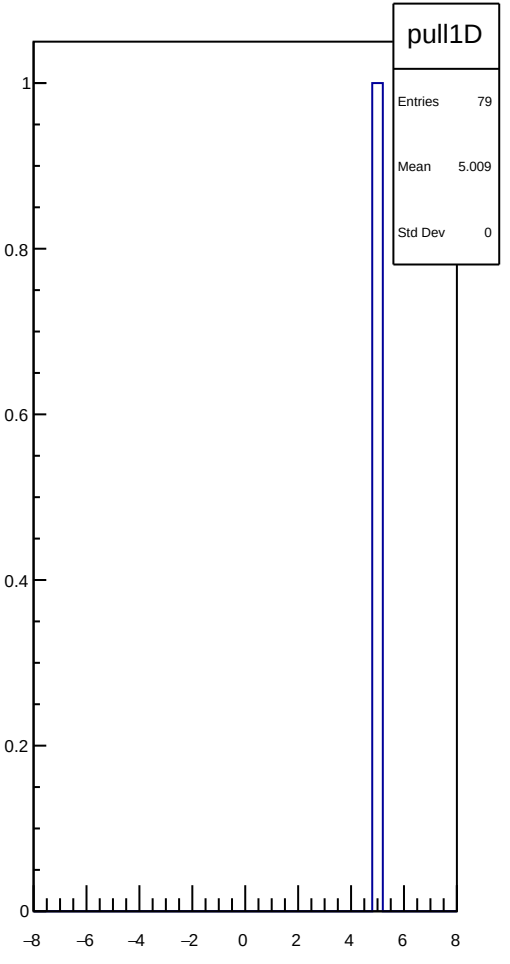

yield_bpm0i05Y_rms vs run
χ² / ndf 1.783e+05 / 78
p0 0.004392 ± 3.737e−06
0.025
0.02
0.015
0.01
0.005

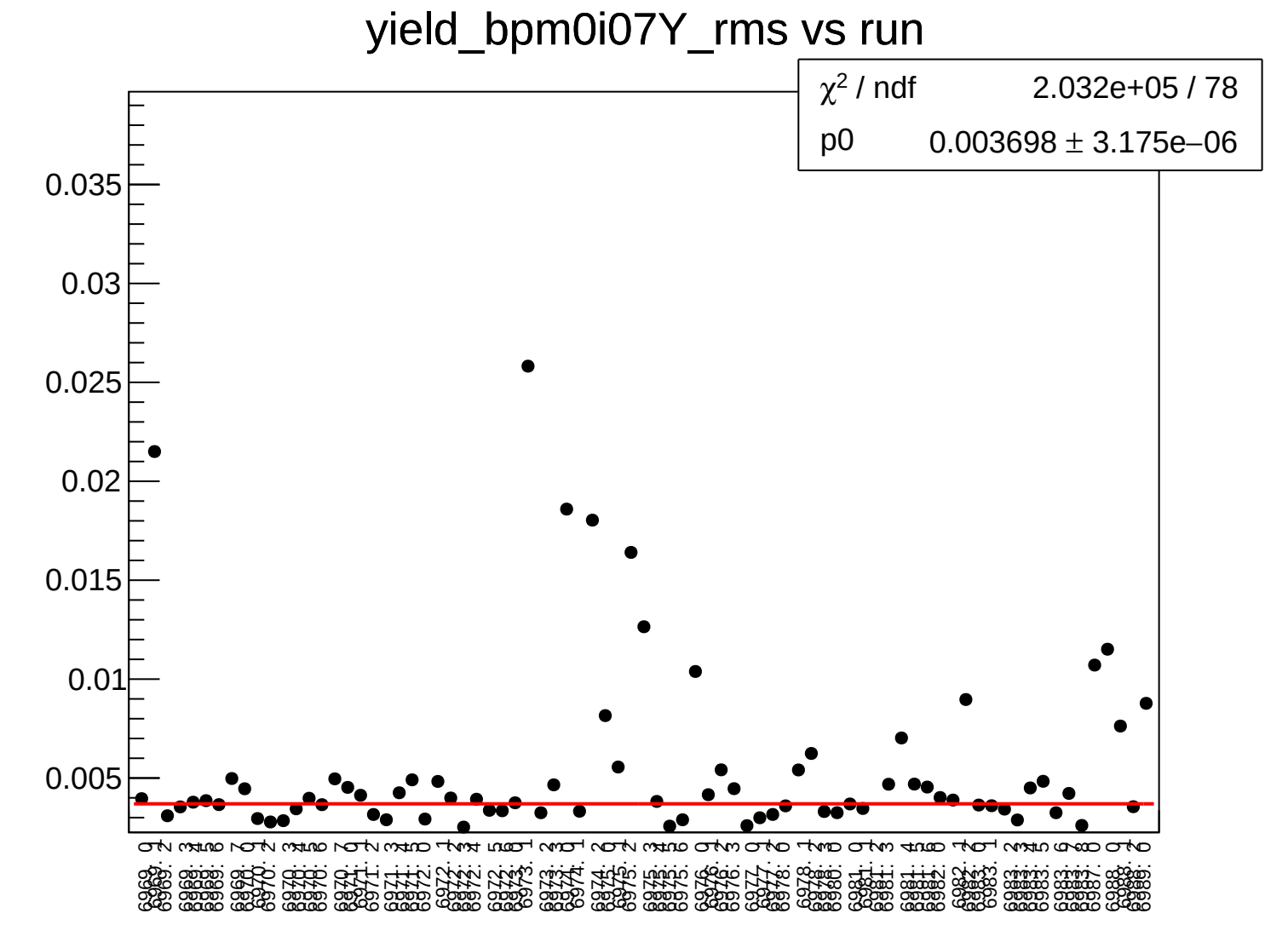

yield_bpm0i07X_mean vs run
χ² / ndf 5.547e+07 / 78
p0 −0.967 ± 4.887e−06
pull
Entries 79
Mean −277.3
Std Dev 315.3

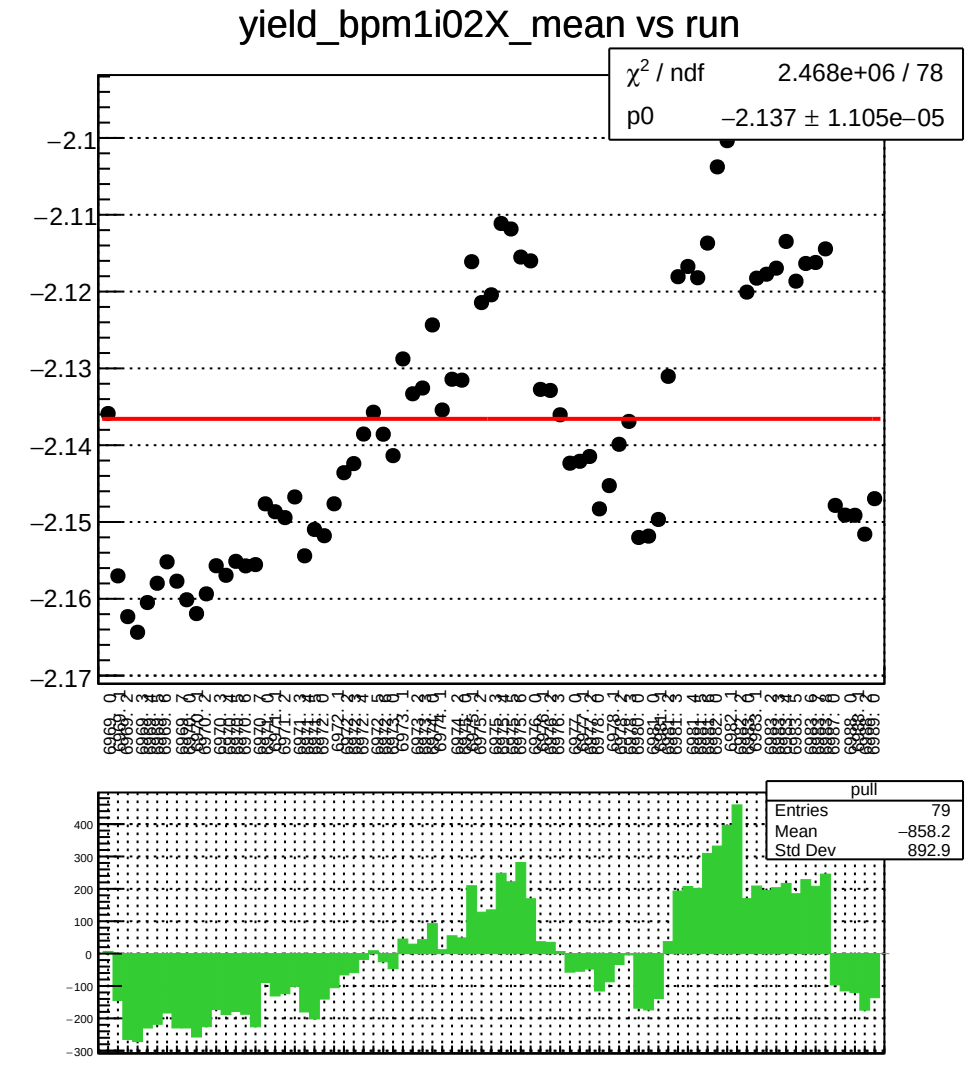

pull1D
Entries 79
Mean −4.721
Std Dev 1.817

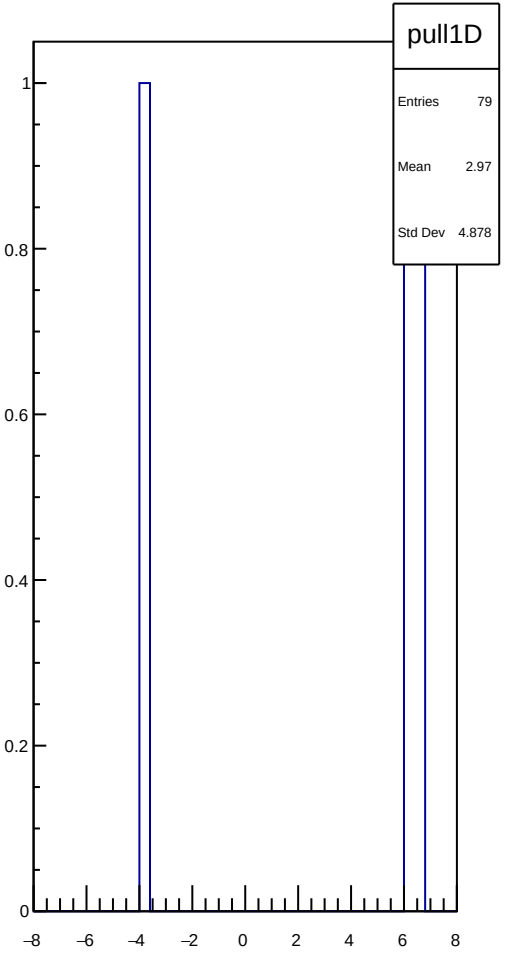

yield_bpm0i07X_rms vs run
χ² / ndf 2.134e+05 / 78
p0 0.00401 ± 3.455e–06
0.03
0.025
0.02
0.015
0.01
0.005

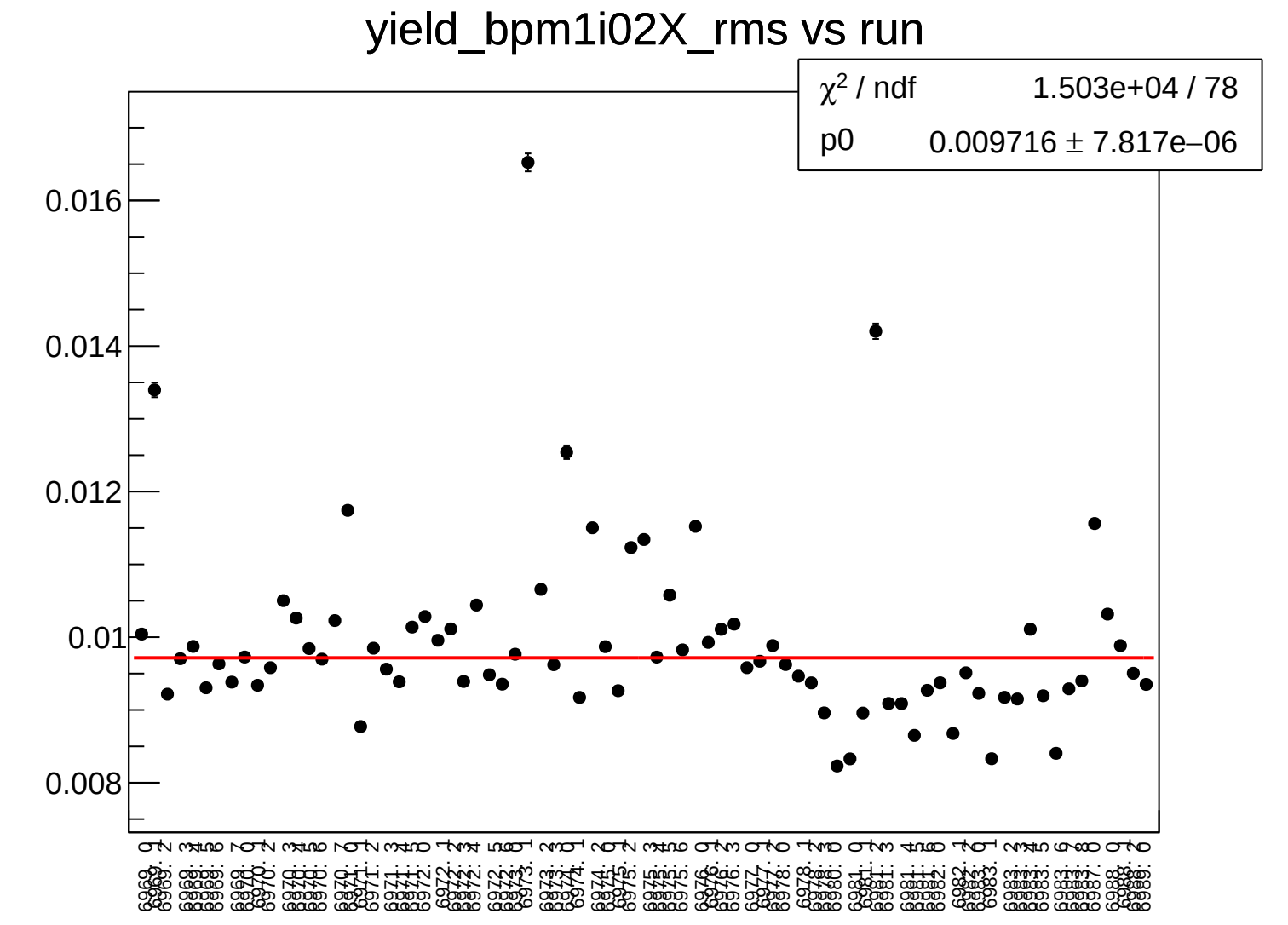

yield_bpm0i07Y_mean vs run
χ² / ndf 5.165e+07 / 78
p0 0.5376 ± 4.49e−06
0.58
0.56
0.54
0.52
0.5
0.48
0.46
0.44
pull
Entries 79
Mean 585.8
Std Dev 547.4
1500
1000
500
0
−500
−1000
−1500
−2000

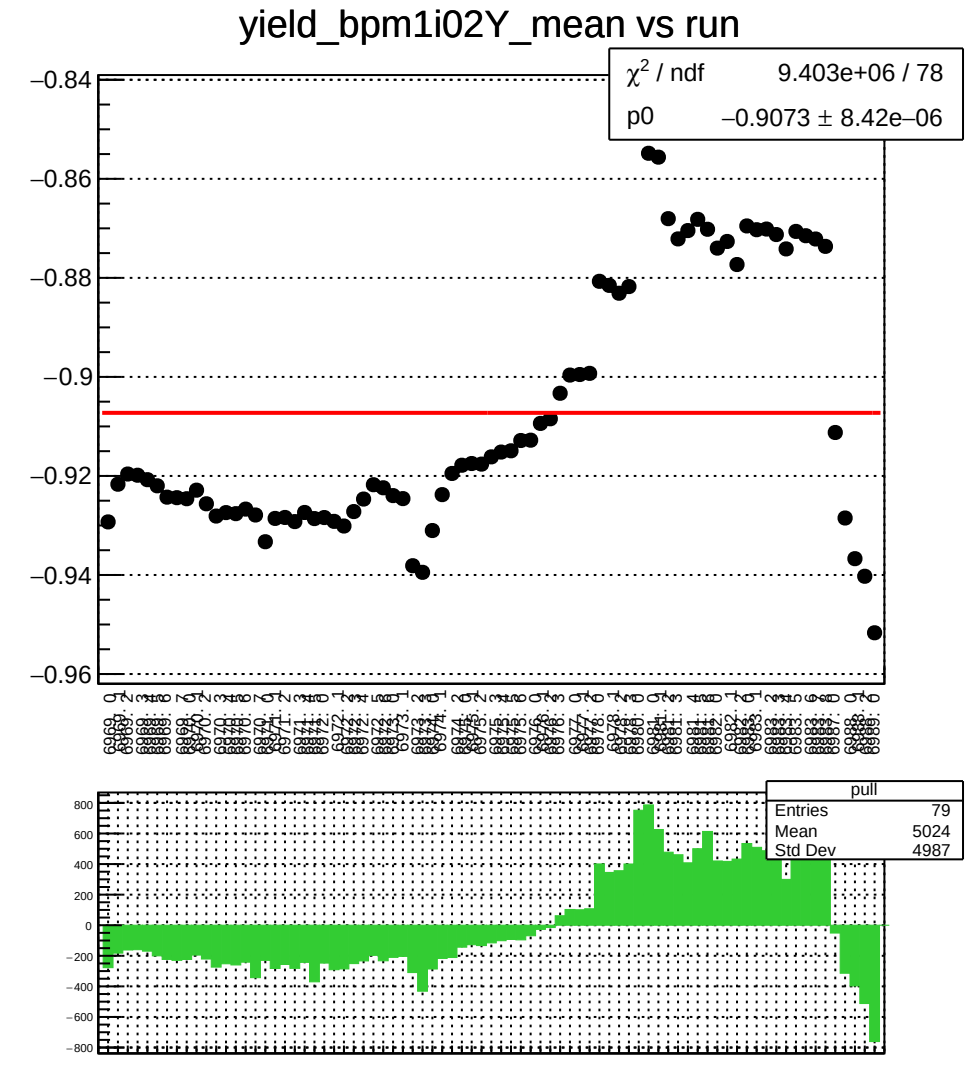

pull1D
Entries 79
Mean 5.009
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

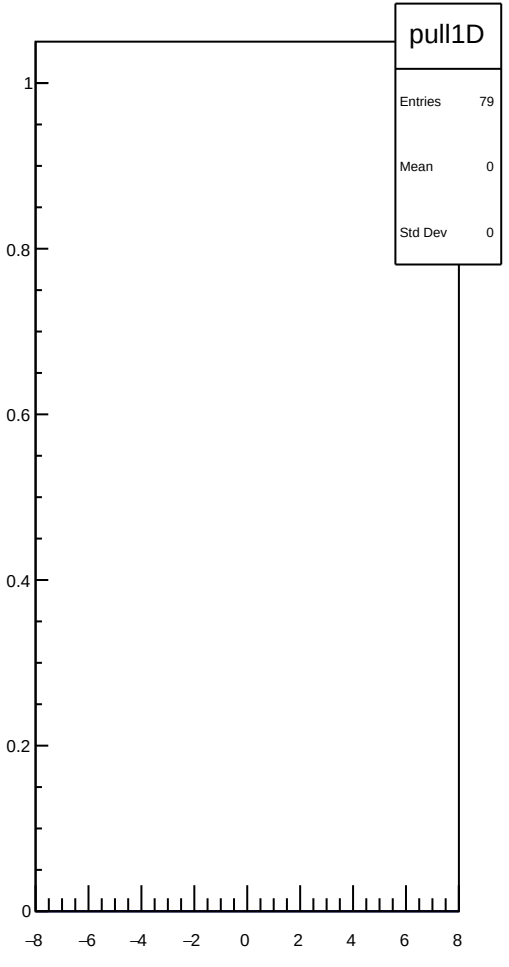

yield_bpm0i07Y_rms vs run
χ² / ndf 2.032e+05 / 78
p0 0.003698 ± 3.175e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

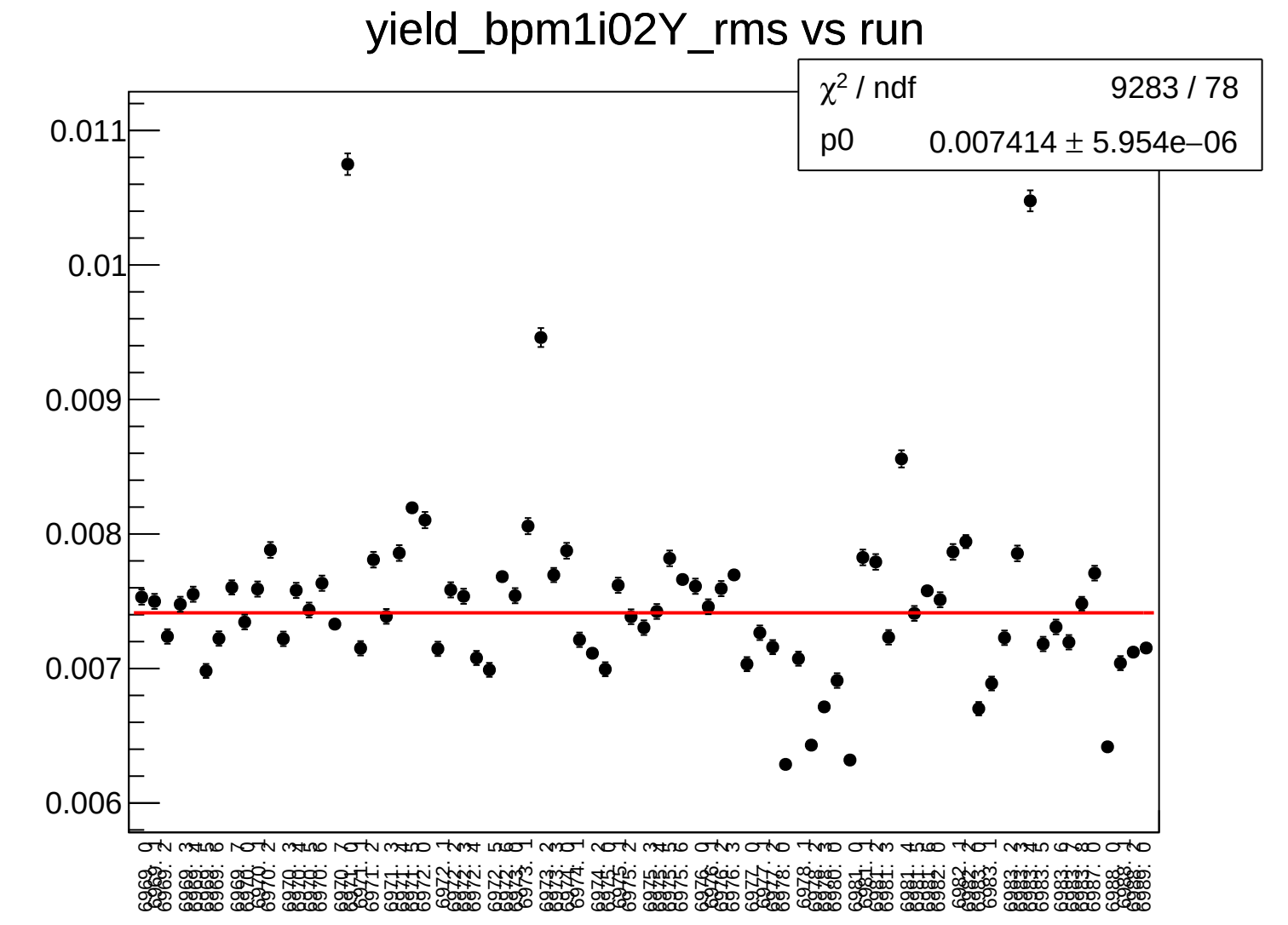

yield_bpm1i02X_mean vs run
χ² / ndf 2.468e+06 / 78
p0 −2.137 ± 1.105e−05
−2.1
−2.11
−2.12
−2.13
−2.14
−2.15
−2.16
−2.17
pull
Entries 79
Mean −858.2
Std Dev 892.9
400
300
200
100
0
−100
−200
−300

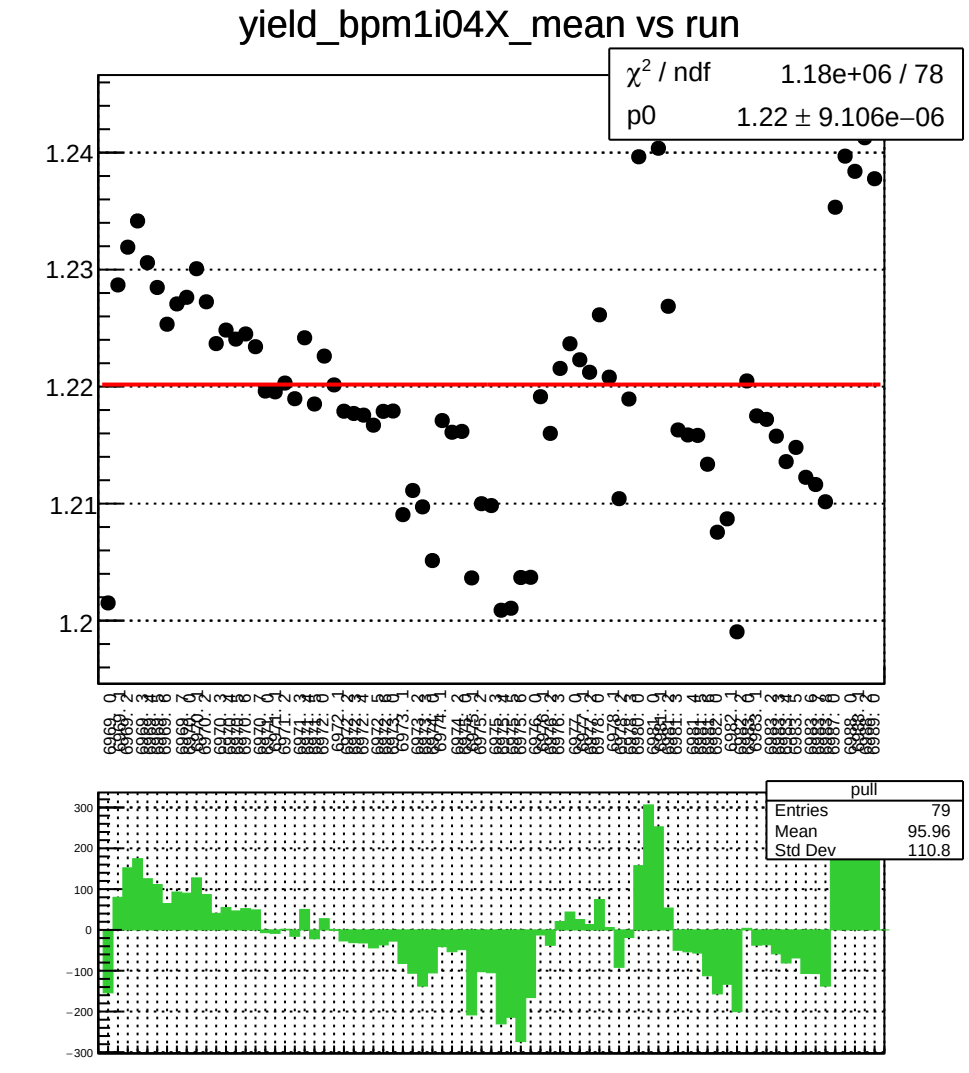

pull1D
Entries 79
Mean 2.97
Std Dev 4.878
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

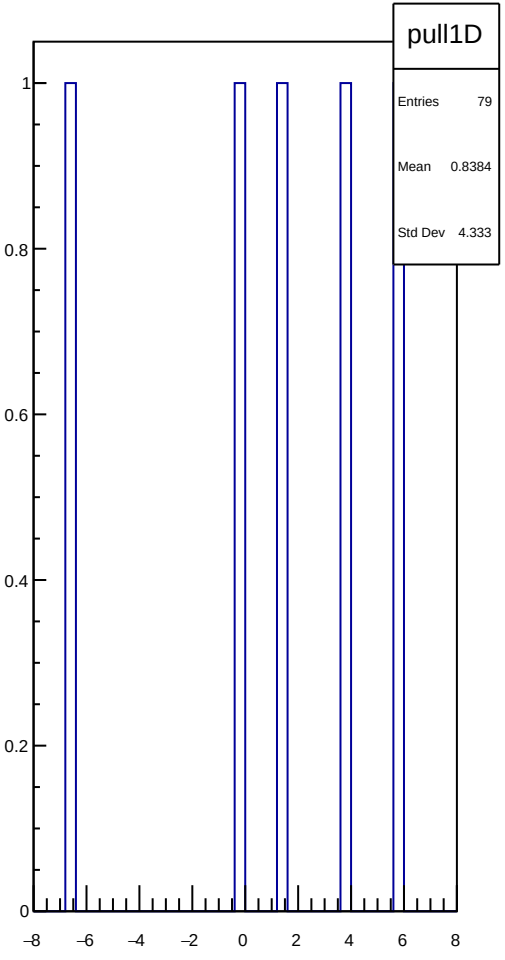

yield_bpm1i02X_rms vs run
χ² / ndf 1.503e+04 / 78
p0 0.009716 ± 7.817e−06
0.016
0.014
0.012
0.01
0.008

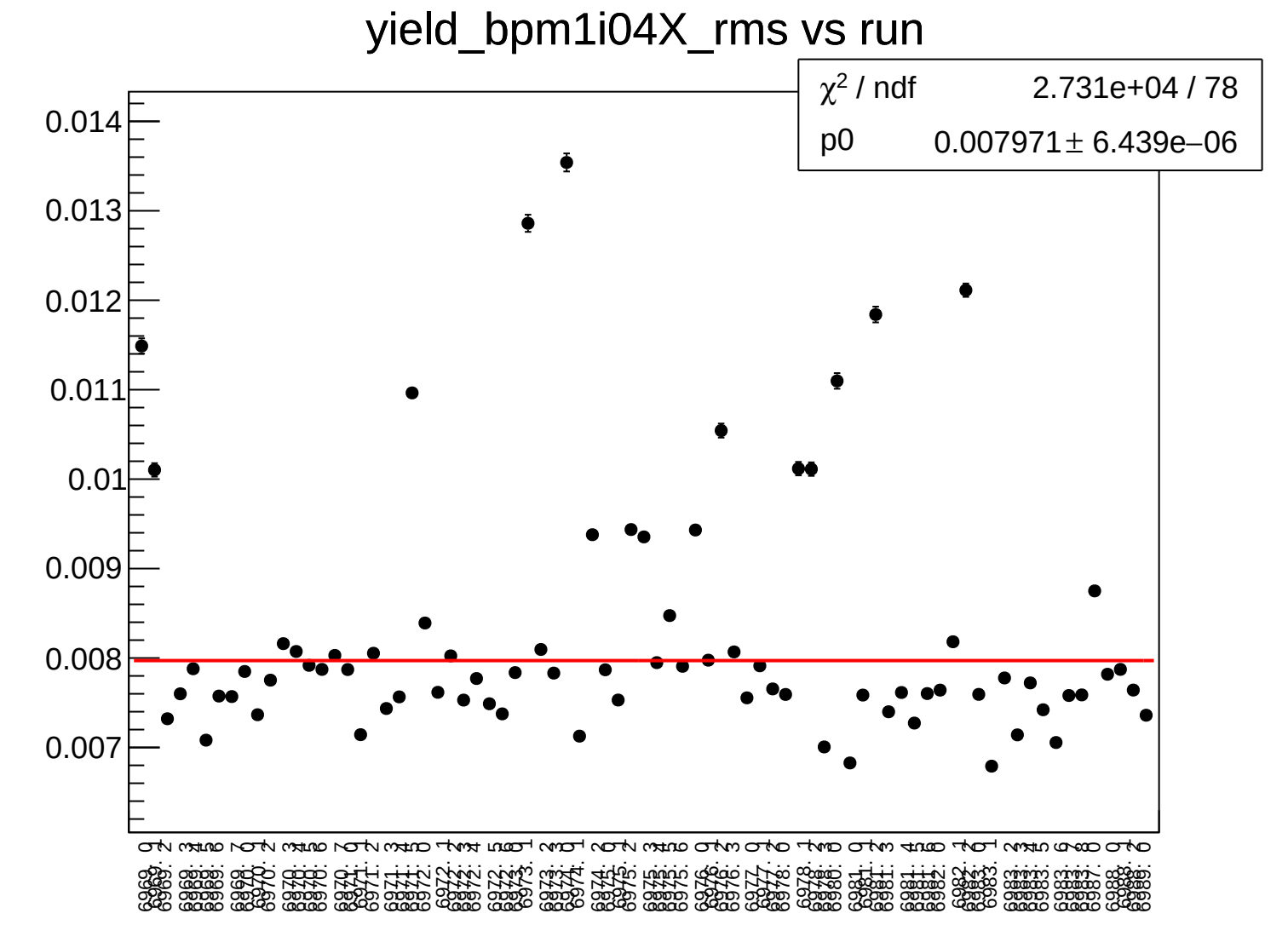

yield_bpm1i02Y_mean vs run
χ² / ndf 9.403e+06 / 78
p0 −0.9073 ± 8.42e−06
−0.84
−0.86
−0.88
−0.9
−0.92
−0.94
−0.96
pull
Entries 79
Mean 5024
Std Dev 4987
800
600
400
200
0
−200
−400
−600
−800

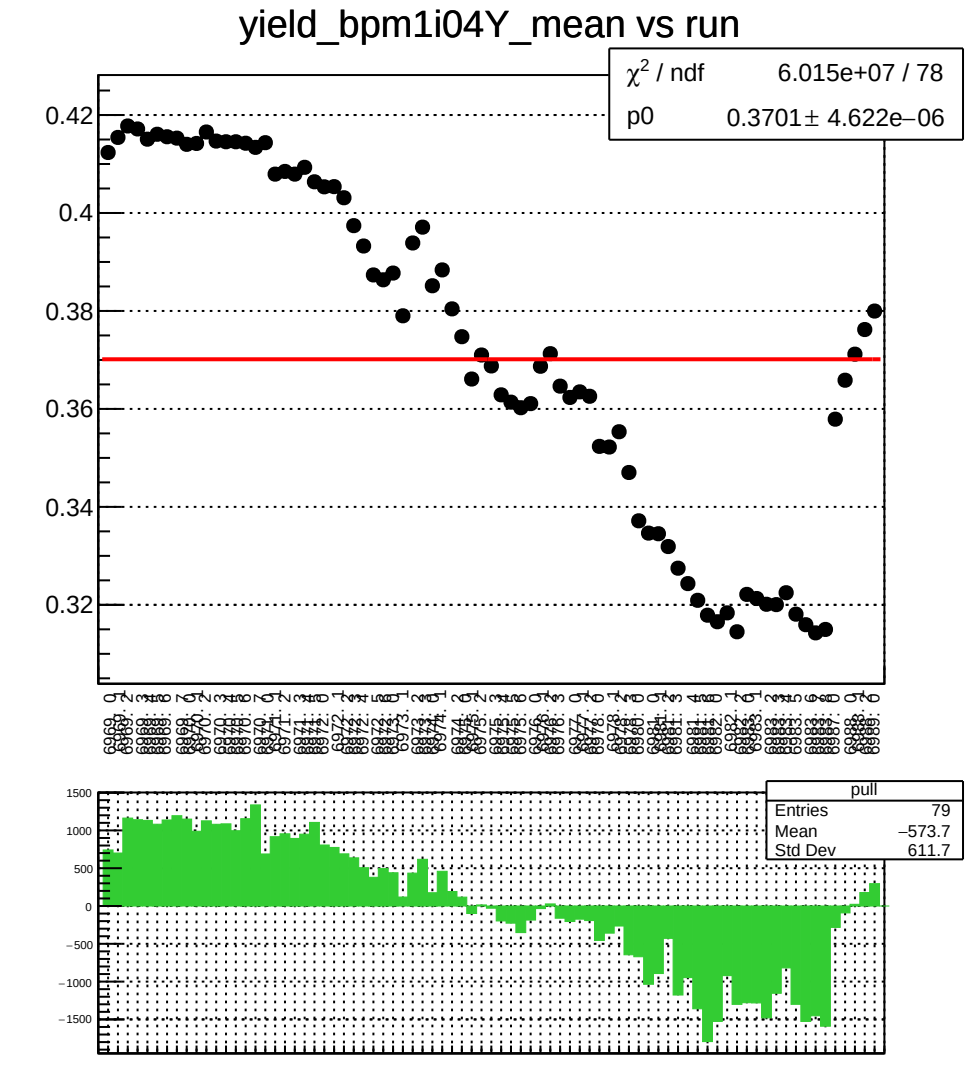

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

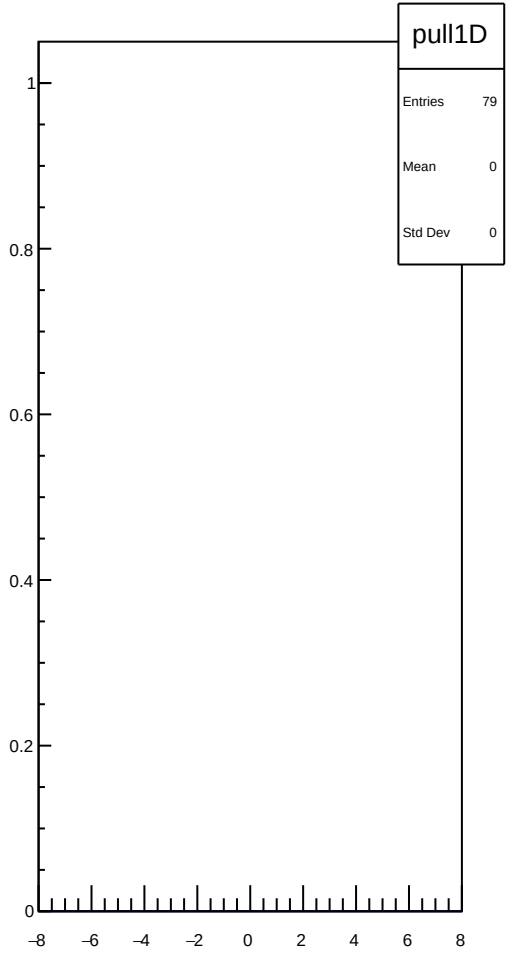

yield_bpm1i02Y_rms vs run
χ^2 / ndf 9283 / 78
p0 0.007414 ± 5.954e−06
0.011
0.01
0.009
0.008
0.007
0.006

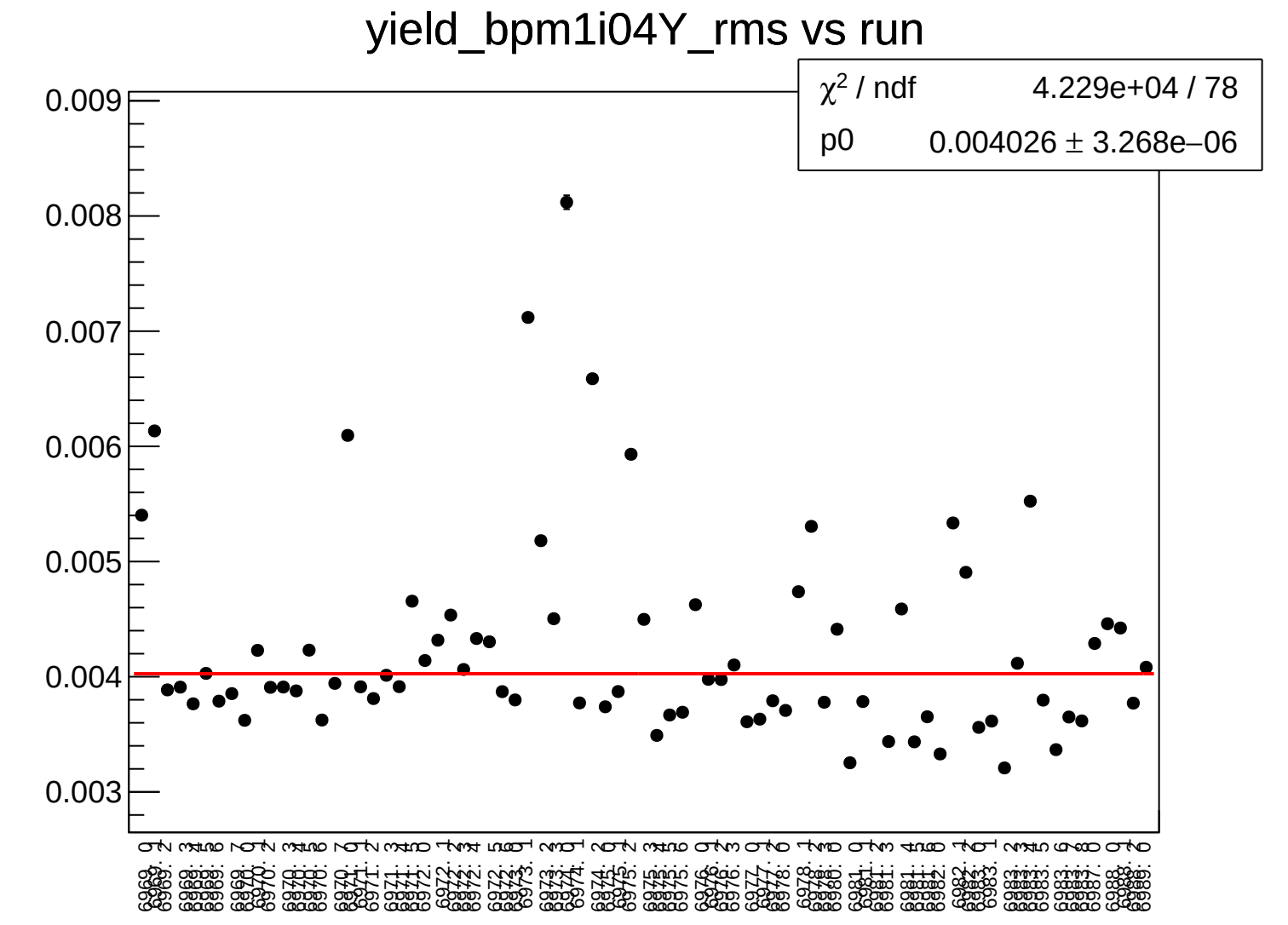

yield_bpm1i04X_mean vs run
χ² / ndf 1.18e+06 / 78
p0 1.22 ± 9.106e−06
1.24
1.23
1.22
1.21
1.2
pull
Entries 79
Mean 95.96
Std Dev 110.8
300
200
100
0
−100
−200
−300

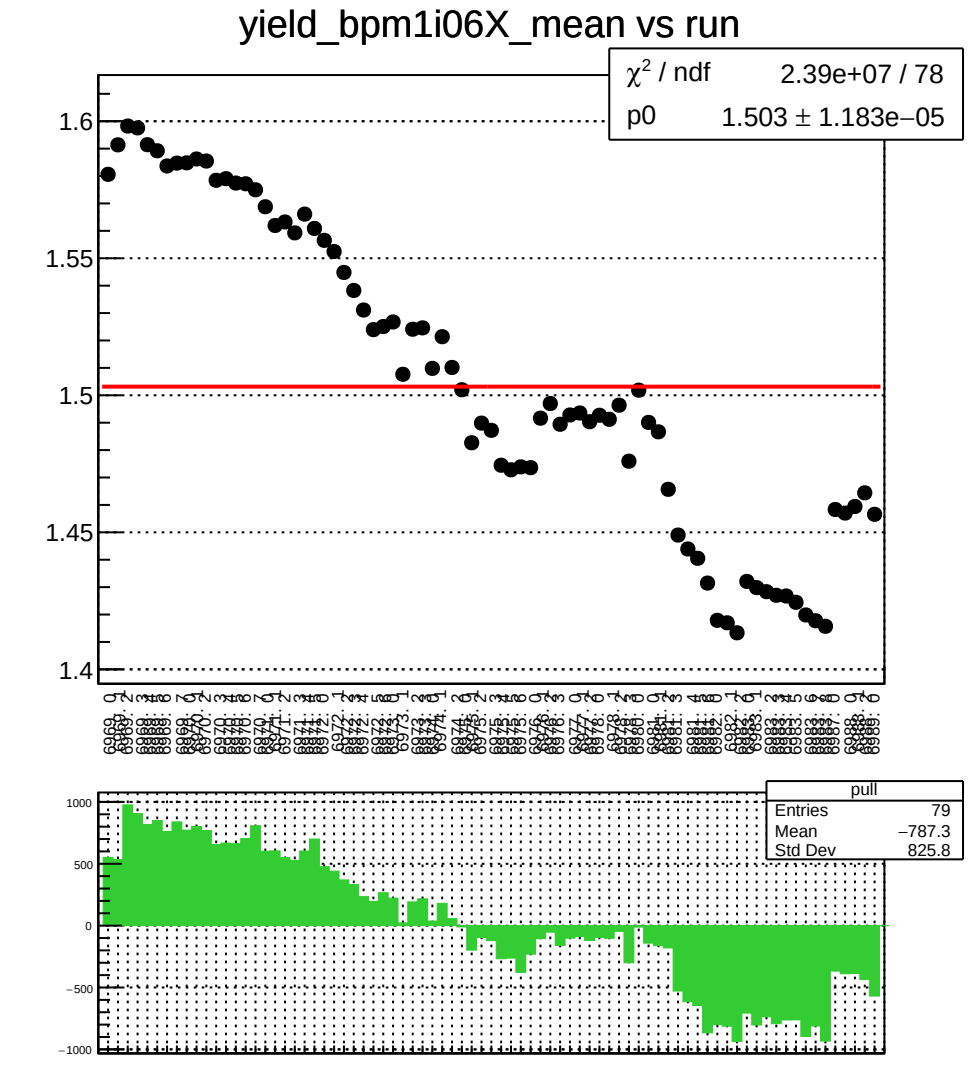

pull1D
Entries 79
Mean 0.8384
Std Dev 4.333
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

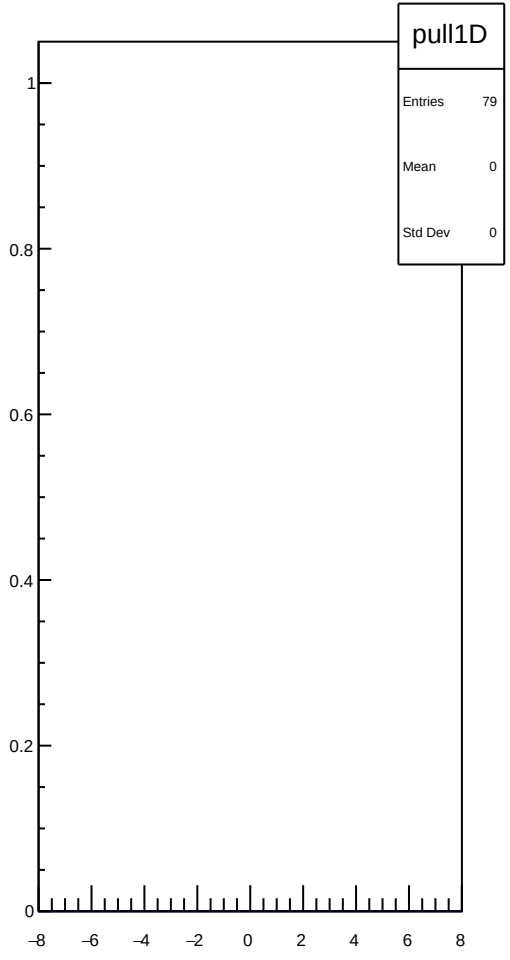

yield_bpm1i04X_rms vs run
χ² / ndf 2.731e+04 / 78
p0 0.007971 ± 6.439e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

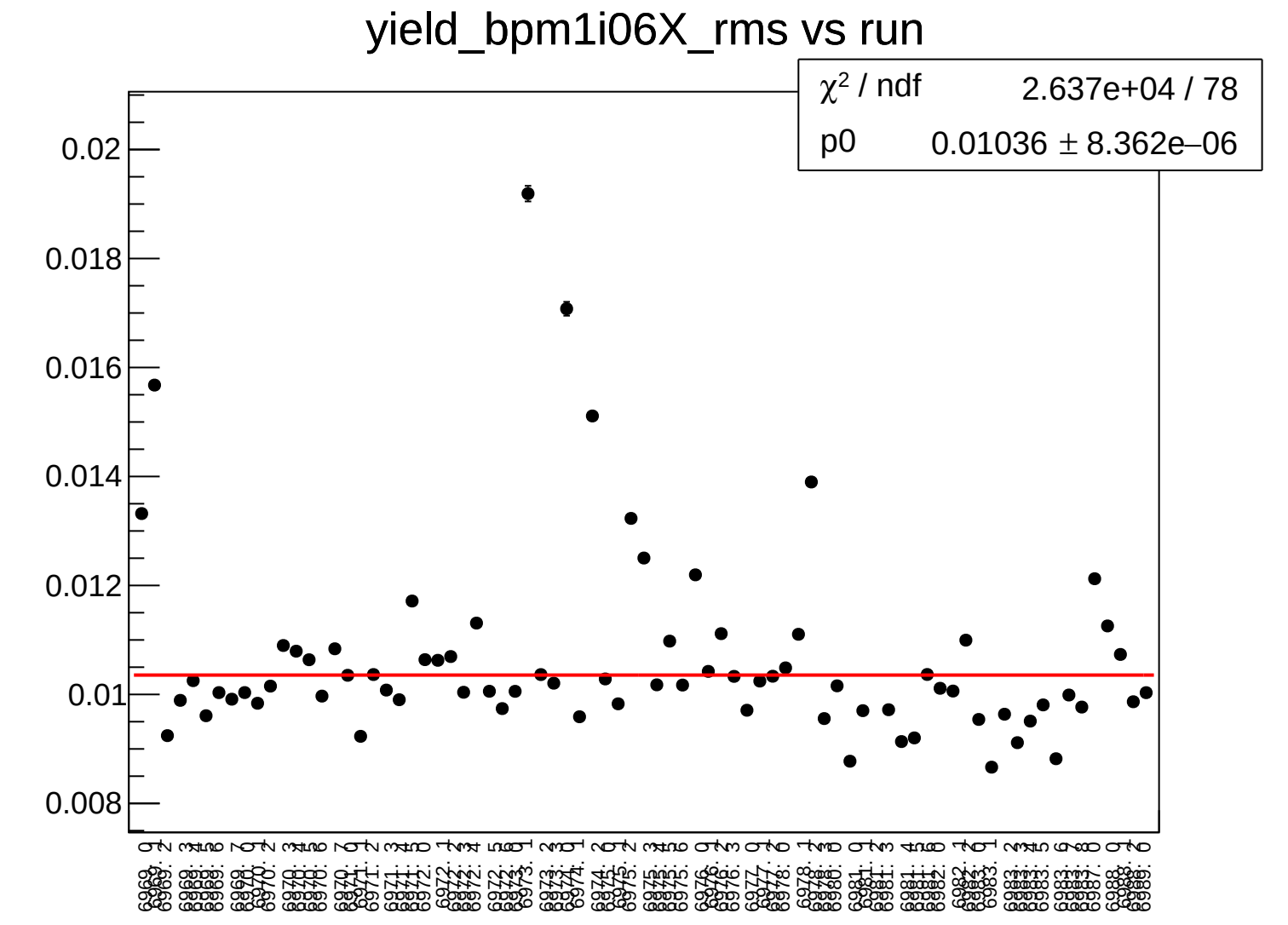

yield_bpm1i04Y_mean vs run
χ² / ndf 6.015e+07 / 78
p0 0.3701 ± 4.622e−06
0.42
0.4
0.38
0.36
0.34
0.32
pull
Entries 79
Mean −573.7
Std Dev 611.7
1500
1000
500
0
−500
−1000
−1500

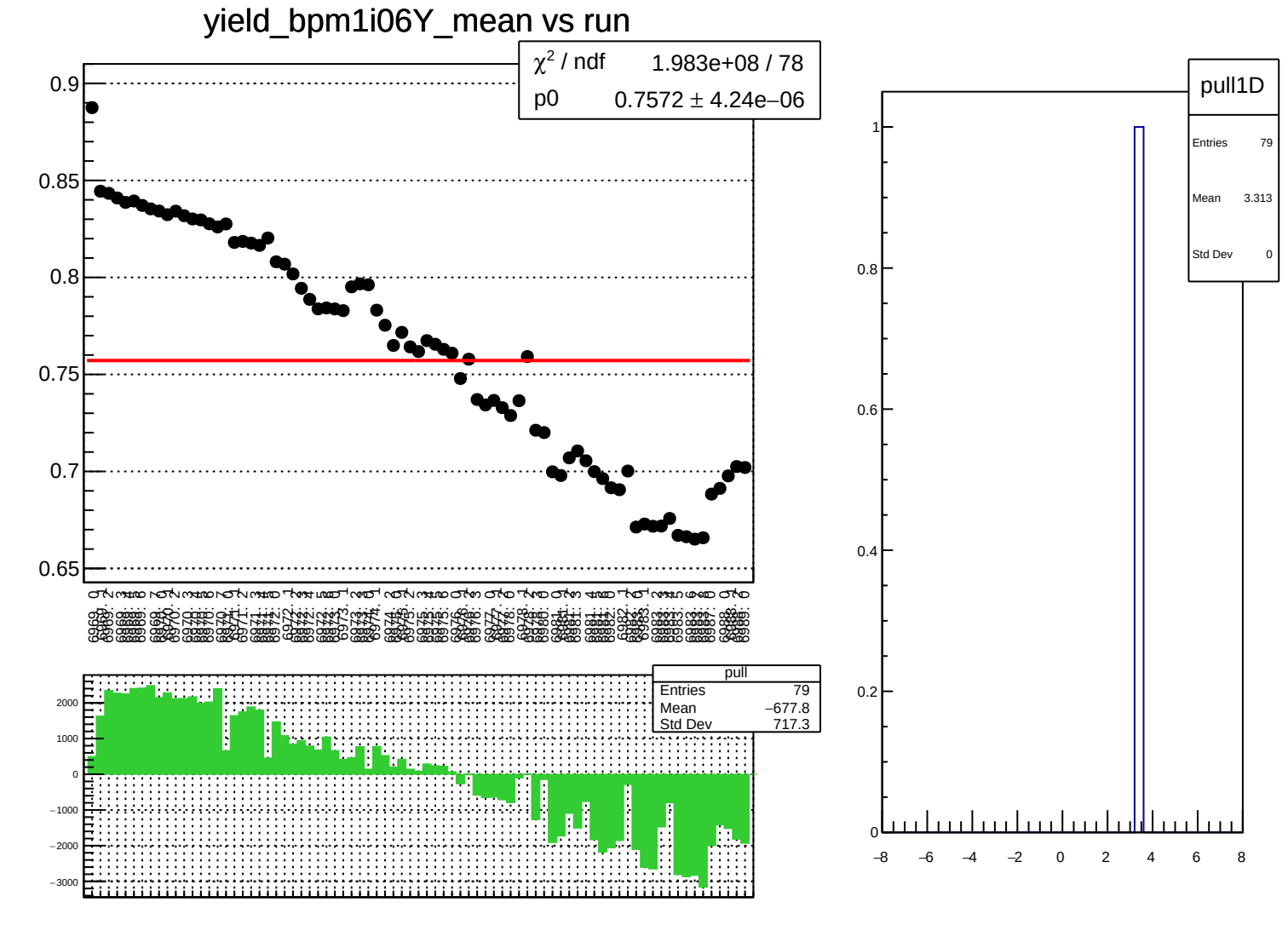

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

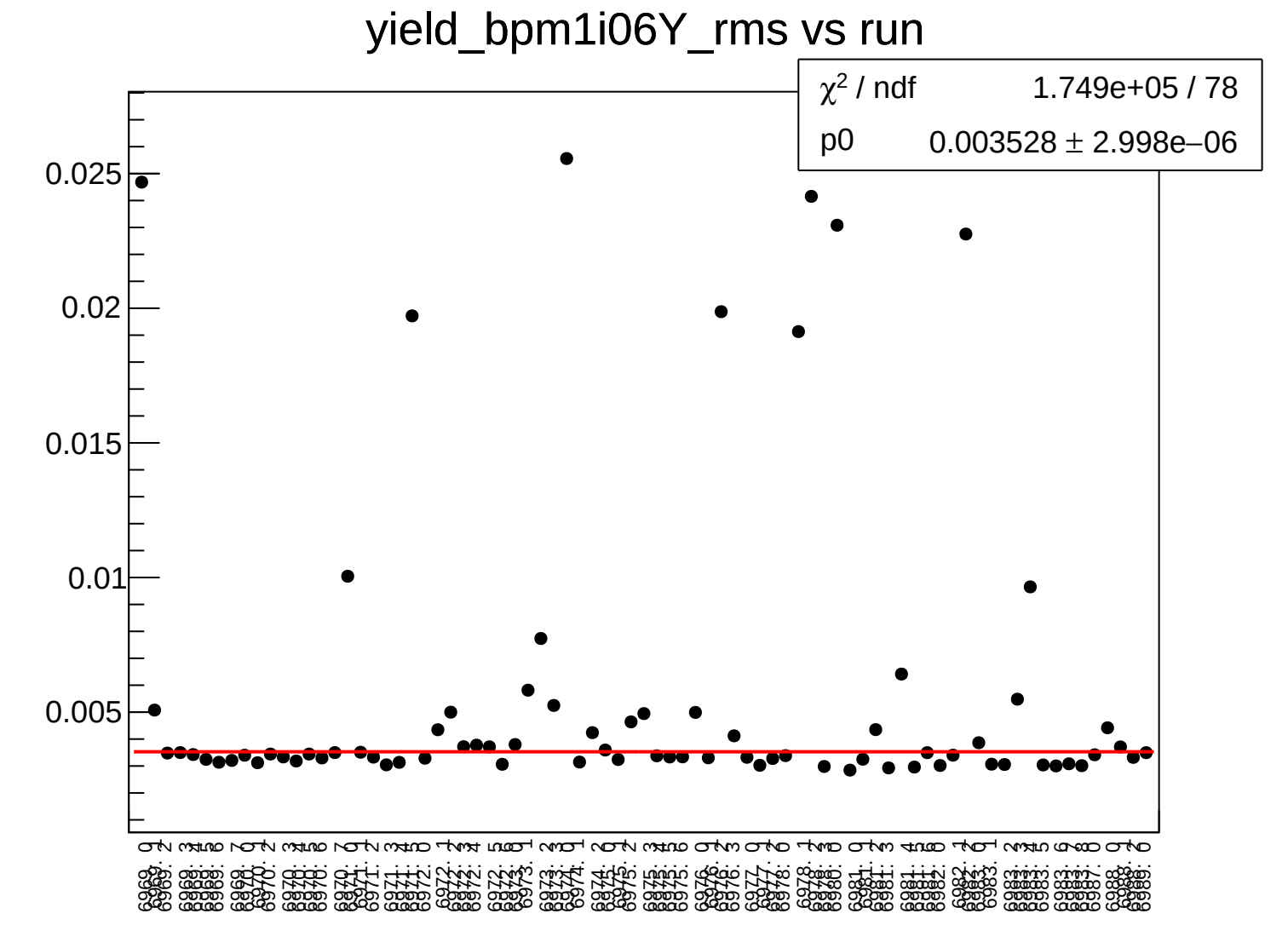

yield_bpm1i04Y_rms vs run
χ² / ndf 4.229e+04 / 78
p0 0.004026 ± 3.268e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

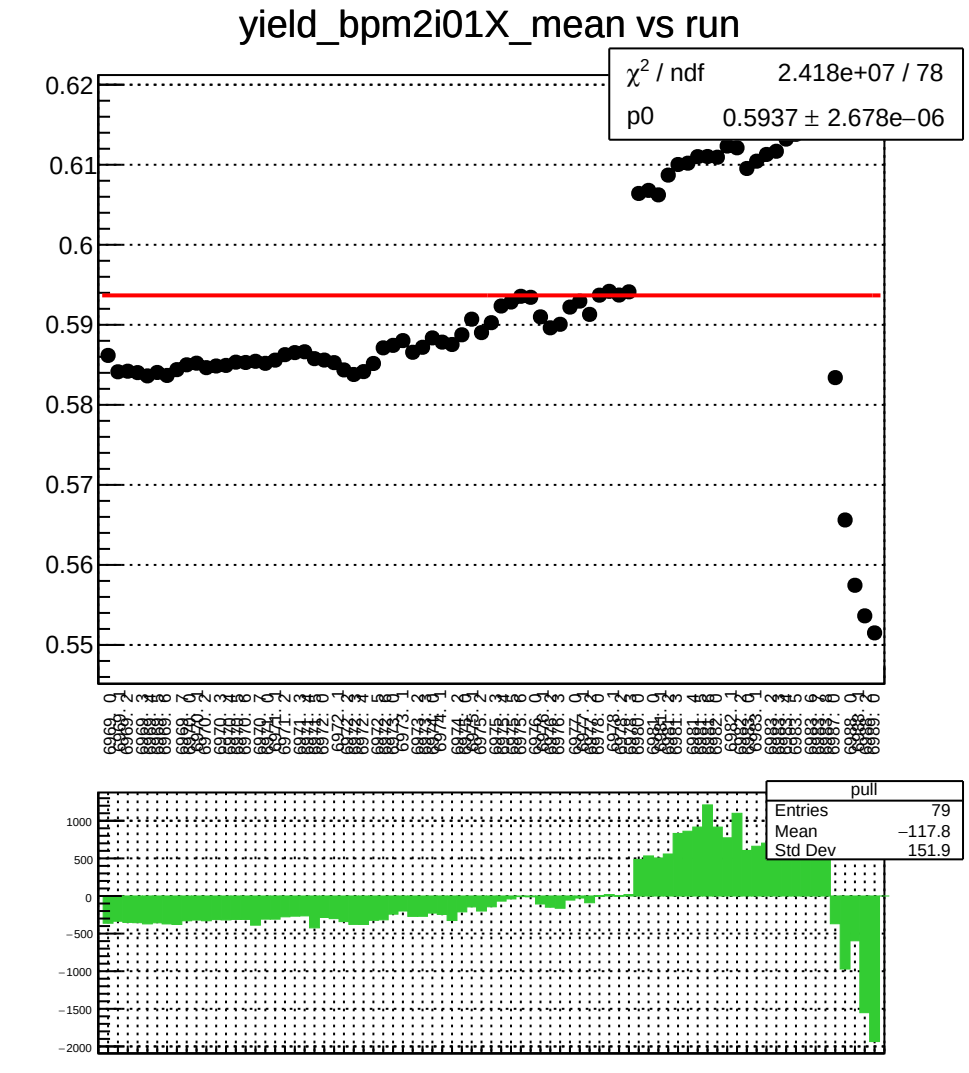

yield_bpm1i06X_mean vs run
χ² / ndf 2.39e+07 / 78
p0 1.503 ± 1.183e−05
1.6
1.55
1.5
1.45
1.4
pull
Entries 79
Mean −787.3
Std Dev 825.8
1000
500
0
−500
−1000

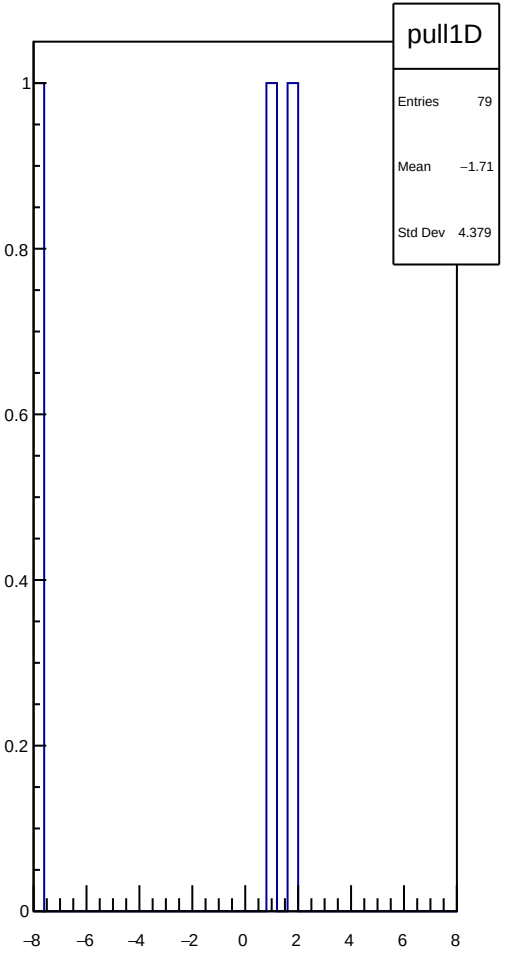

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

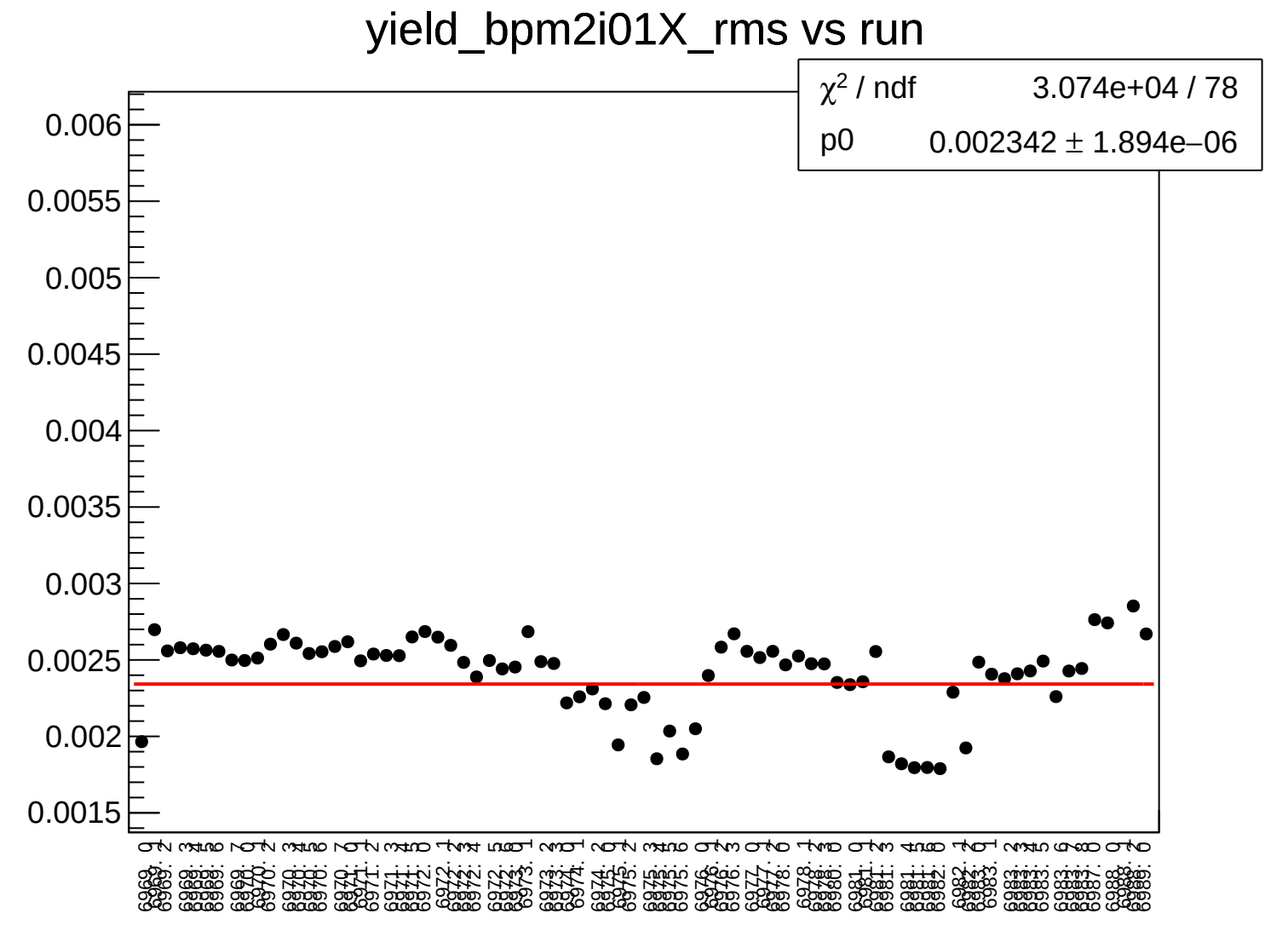

yield_bpm1i06X_rms vs run
χ² / ndf 2.637e+04 / 78
p0 0.01036 ± 8.362e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

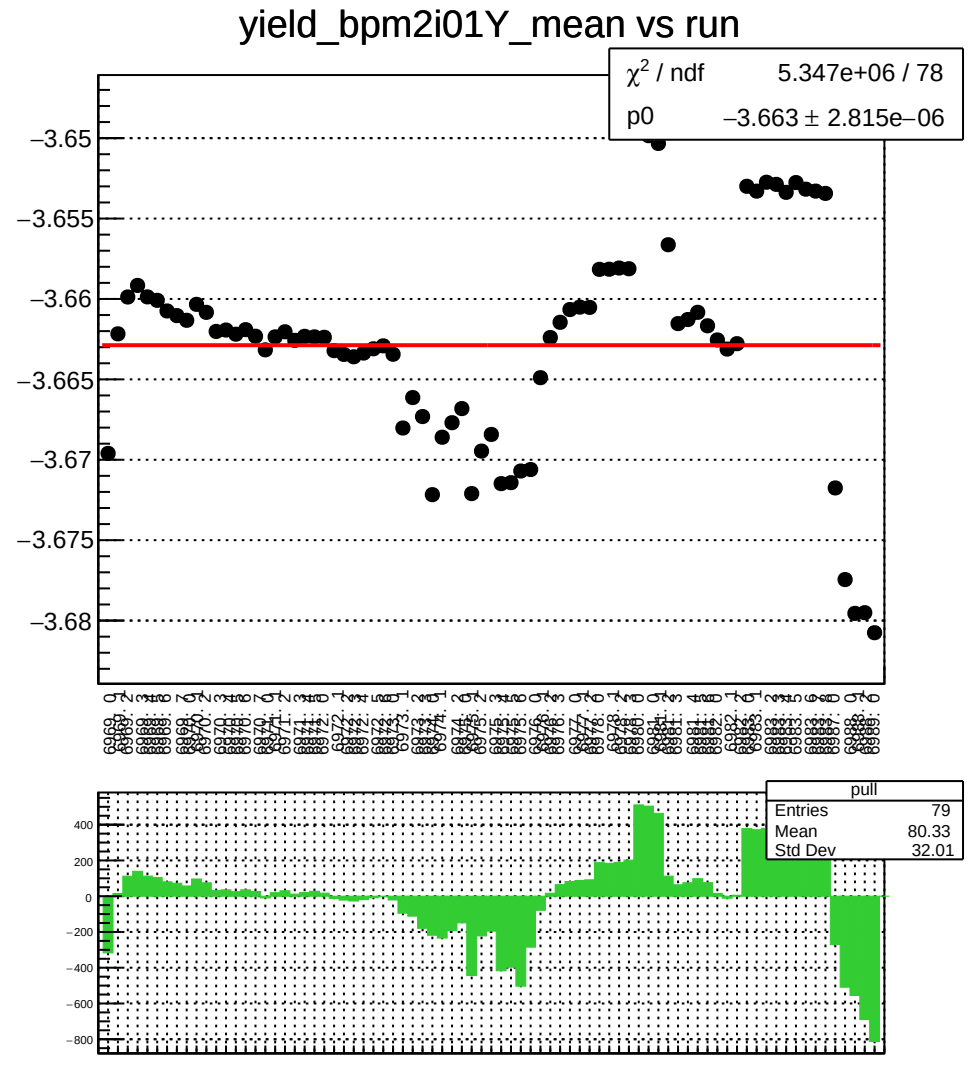

yield_bpm1i06Y_mean vs run
χ² / ndf 1.983e+08 / 78
p0 0.7572 ± 4.24e−06
0.9
0.85
0.8
0.75
0.7
0.65
pull
Entries 79
Mean −677.8
Std Dev 717.3
2000
1000
0
−1000
−2000
−3000
pull1D
Entries 79
Mean 3.313
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

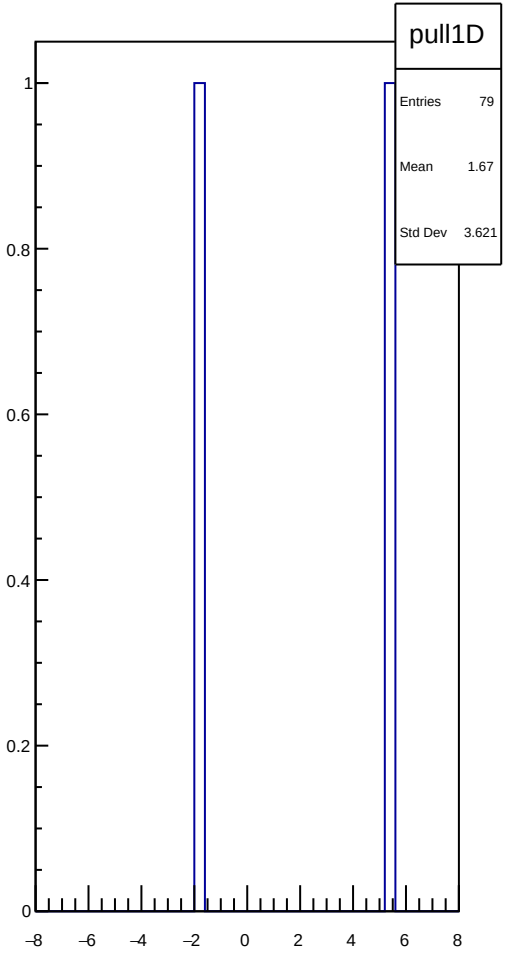

yield_bpm1i06Y_rms vs run
χ² / ndf 1.749e+05 / 78
p0 0.003528 ± 2.998e−06
0.025
0.02
0.015
0.01
0.005

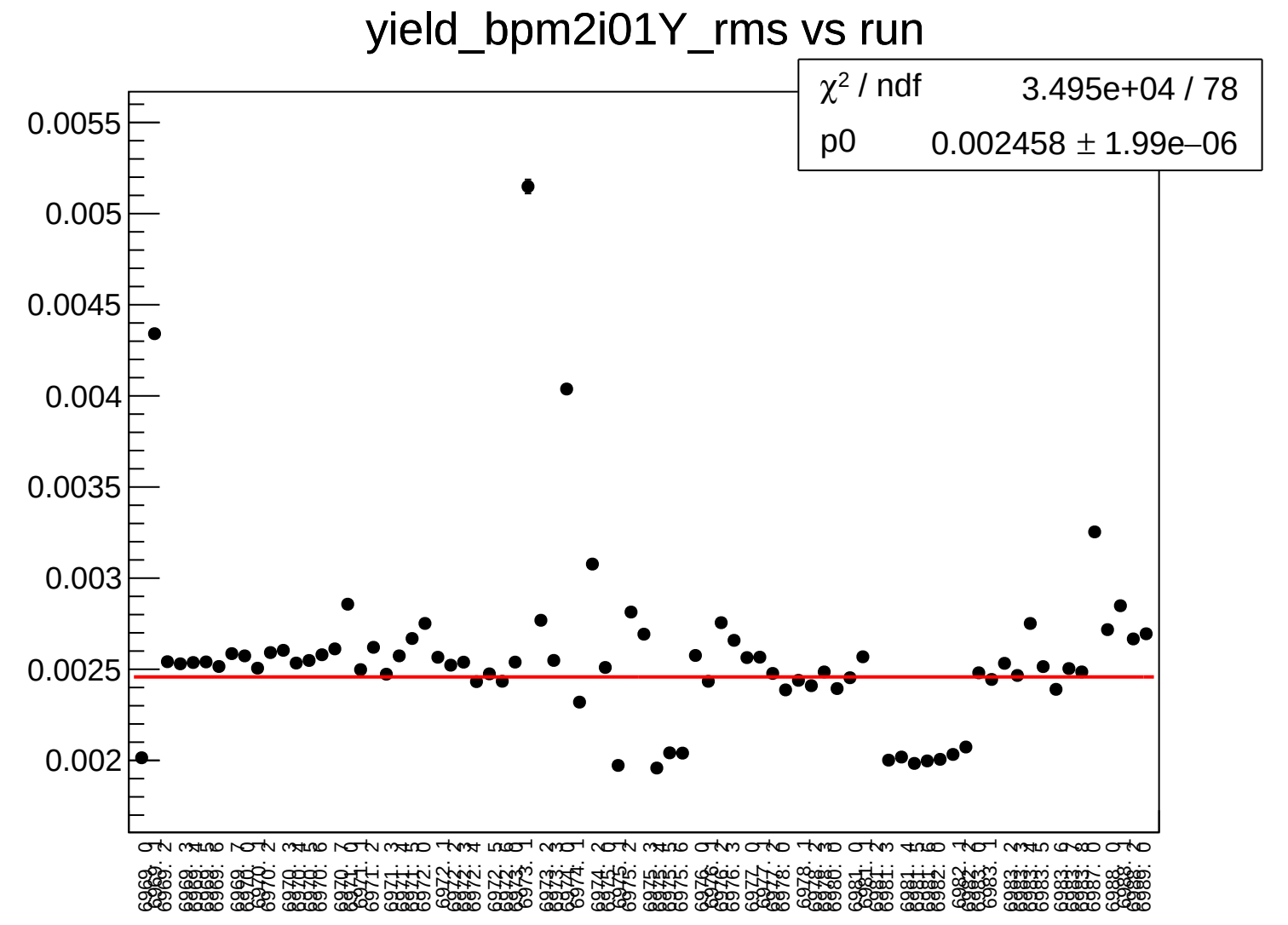

yield_bpm2i01X_mean vs run
χ² / ndf 2.418e+07 / 78
p0 0.5937 ± 2.678e−06
pull
Entries 79
Mean −117.8
Std Dev 151.9

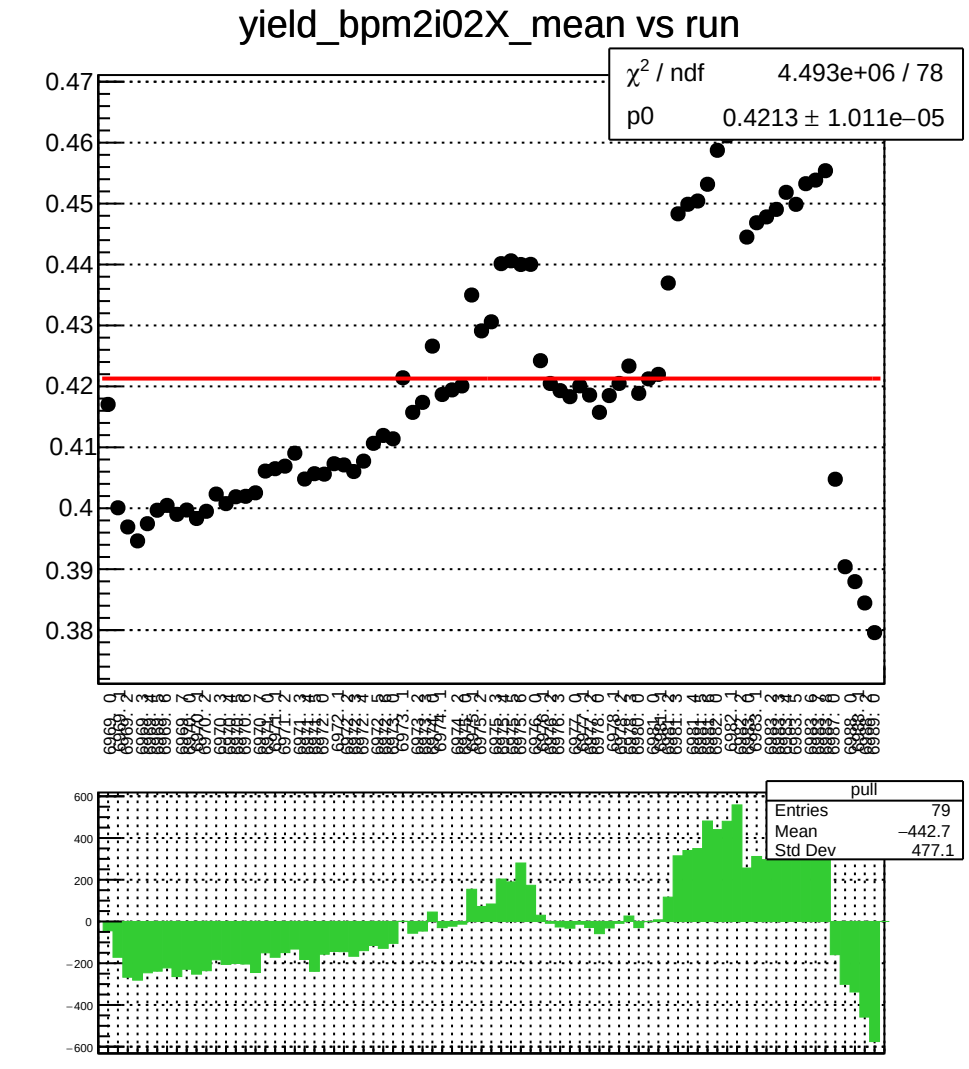

pull1D
Entries 79
Mean −1.71
Std Dev 4.379

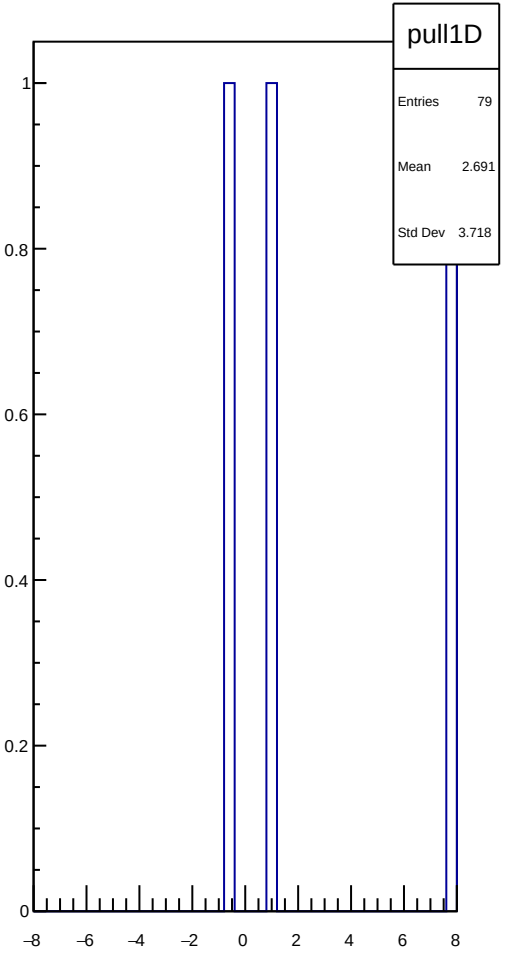

yield_bpm2i01X_rms vs run
χ² / ndf 3.074e+04 / 78
p0 0.002342 ± 1.894e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015

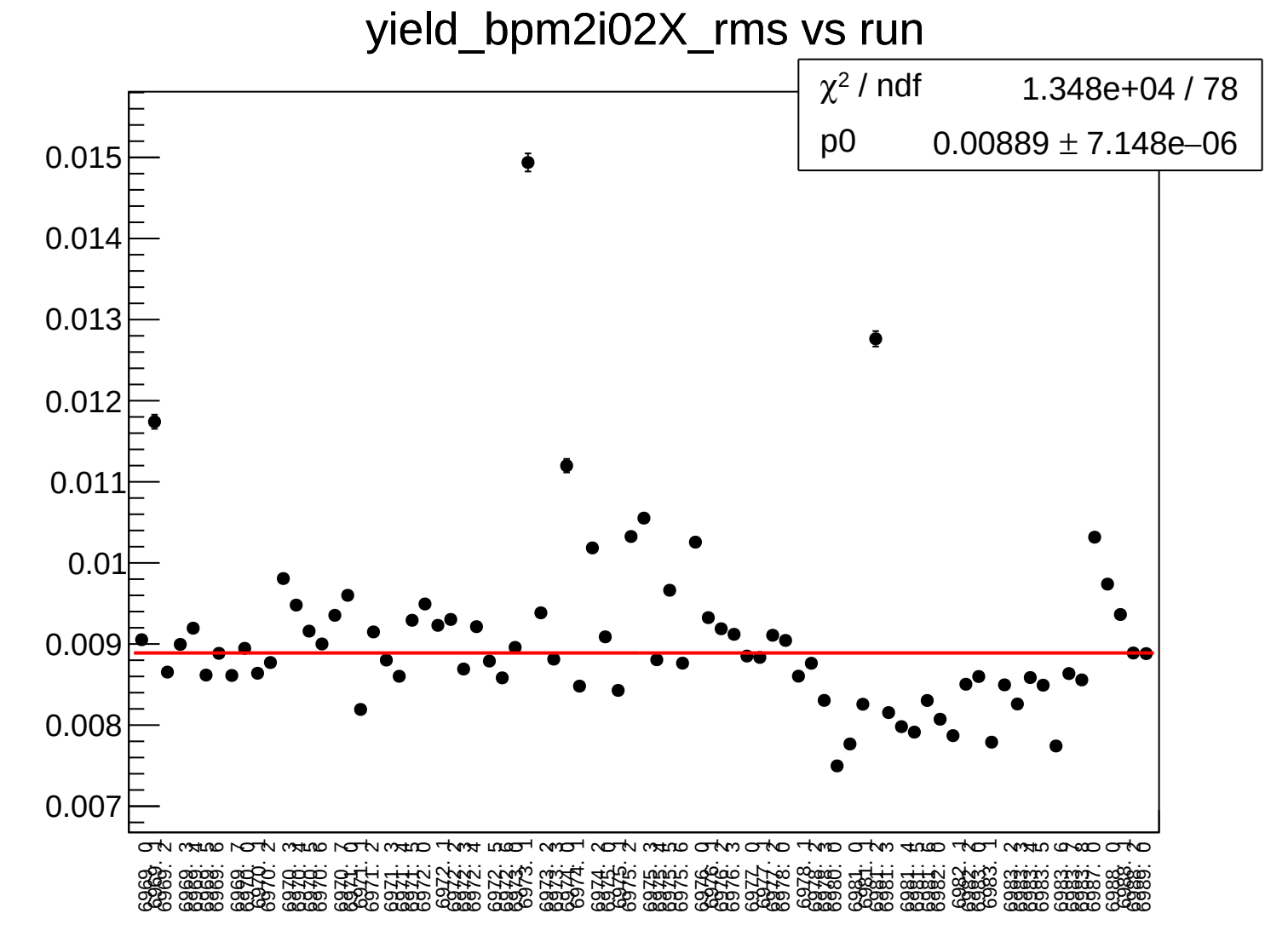

yield_bpm2i01Y_mean vs run
χ² / ndf 5.347e+06 / 78
p0 −3.663 ± 2.815e−06
−3.65
−3.655
−3.66
−3.665
−3.67
−3.675
−3.68
pull
Entries 79
Mean 80.33
Std Dev 32.01
400
200
0
−200
−400
−600
−800

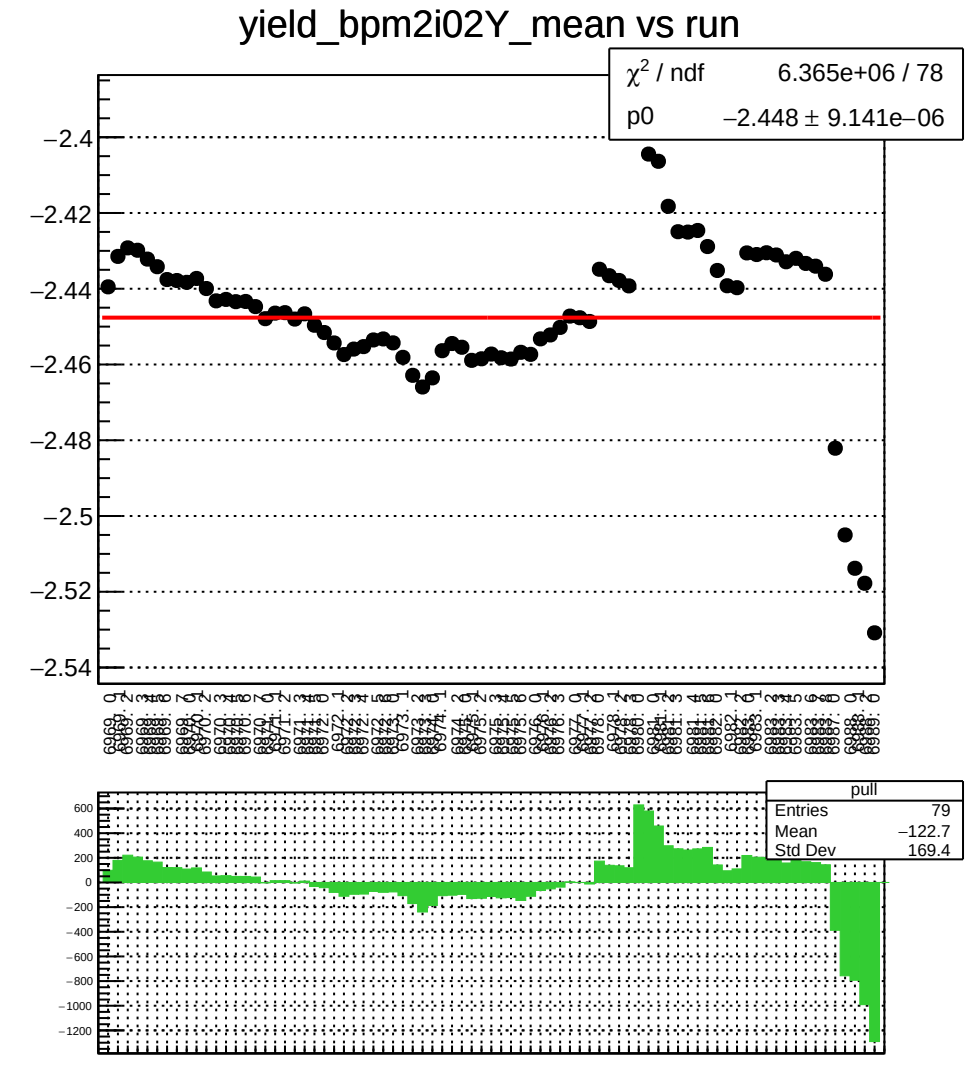

pull1D
Entries 79
Mean 1.67
Std Dev 3.621
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

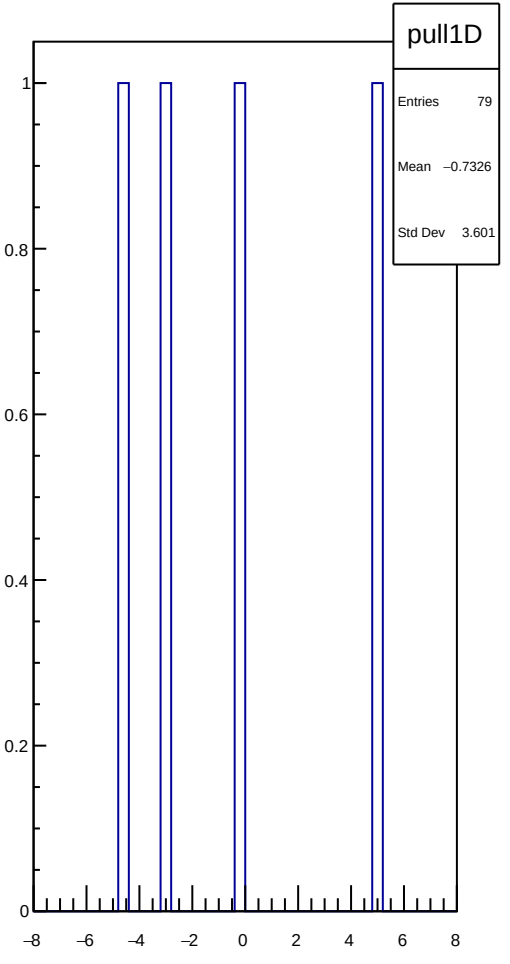

yield_bpm2i01Y_rms vs run
χ² / ndf 3.495e+04 / 78
p0 0.002458 ± 1.99e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

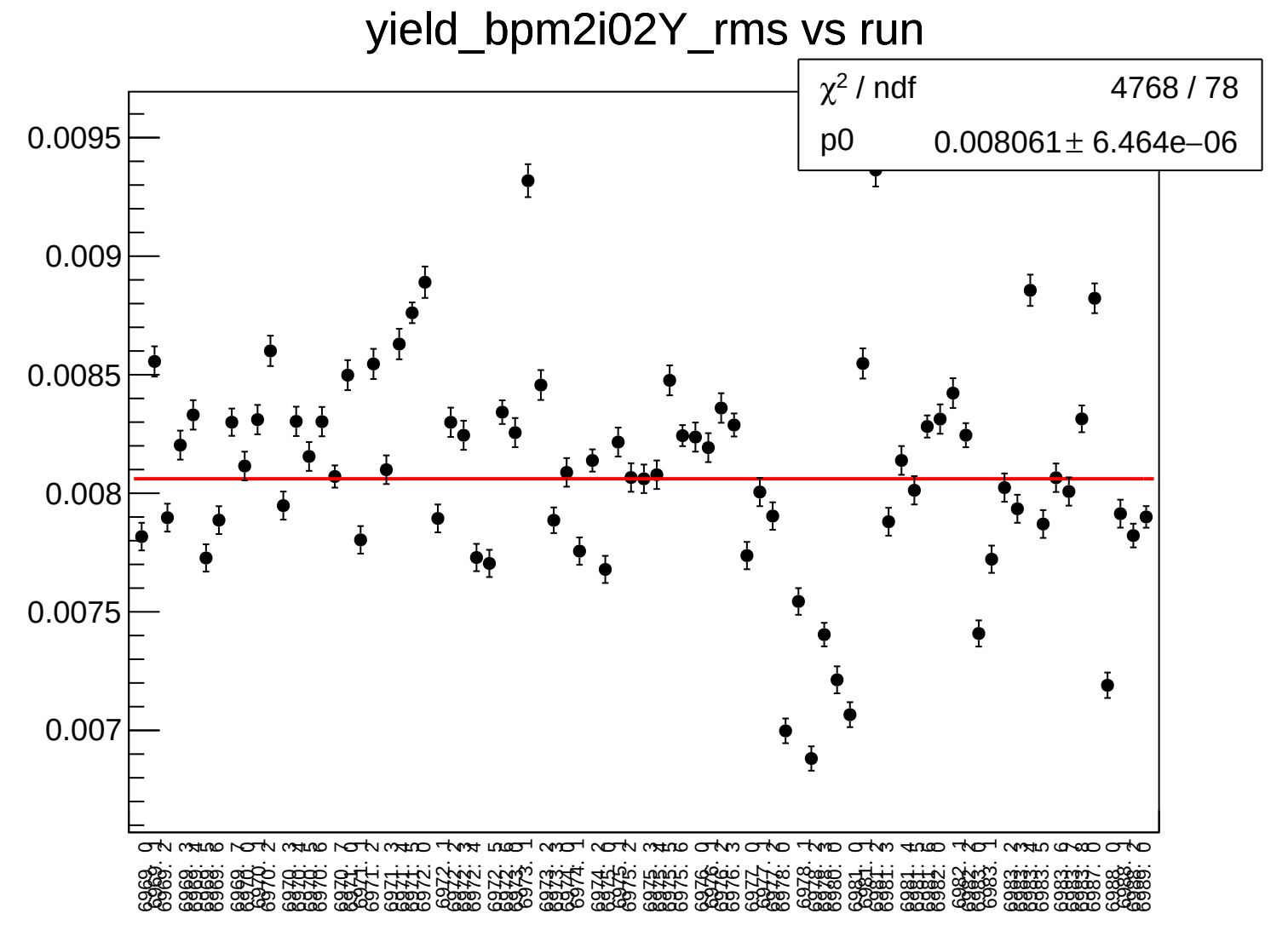

yield_bpm2i02X_mean vs run
χ² / ndf 4.493e+06 / 78
p0 0.4213 ± 1.011e−05
pull
Entries 79
Mean −442.7
Std Dev 477.1

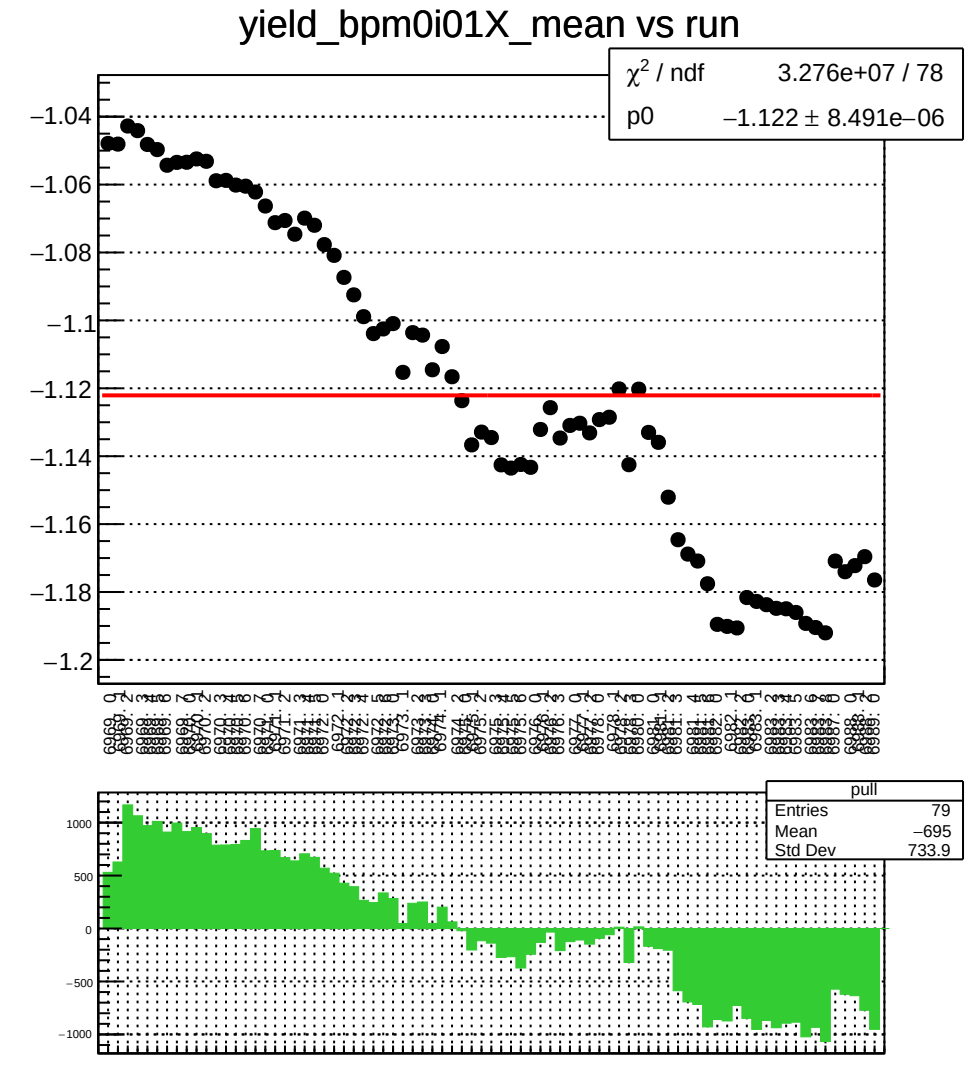

pull1D
Entries 79
Mean 2.691
Std Dev 3.718

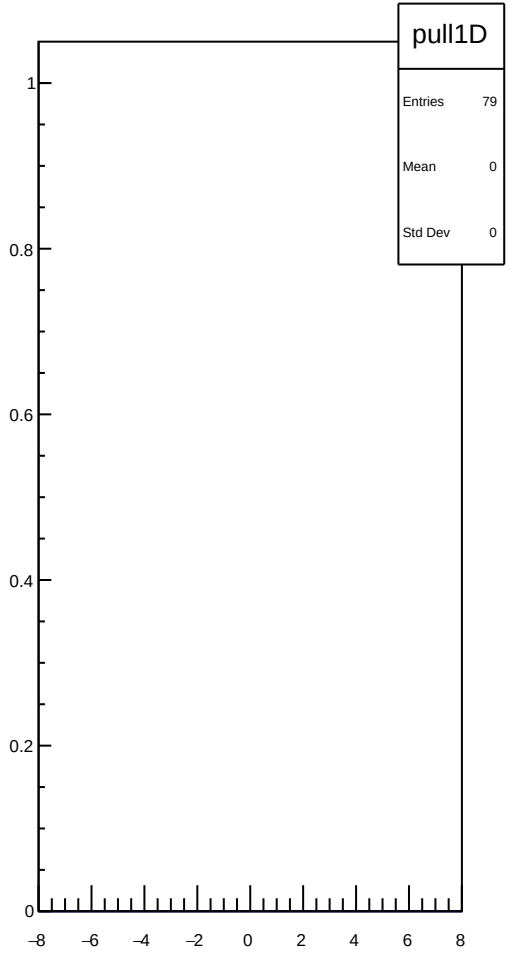

yield_bpm2i02X_rms vs run
χ² / ndf 1.348e+04 / 78
p0 0.00889 ± 7.148e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007

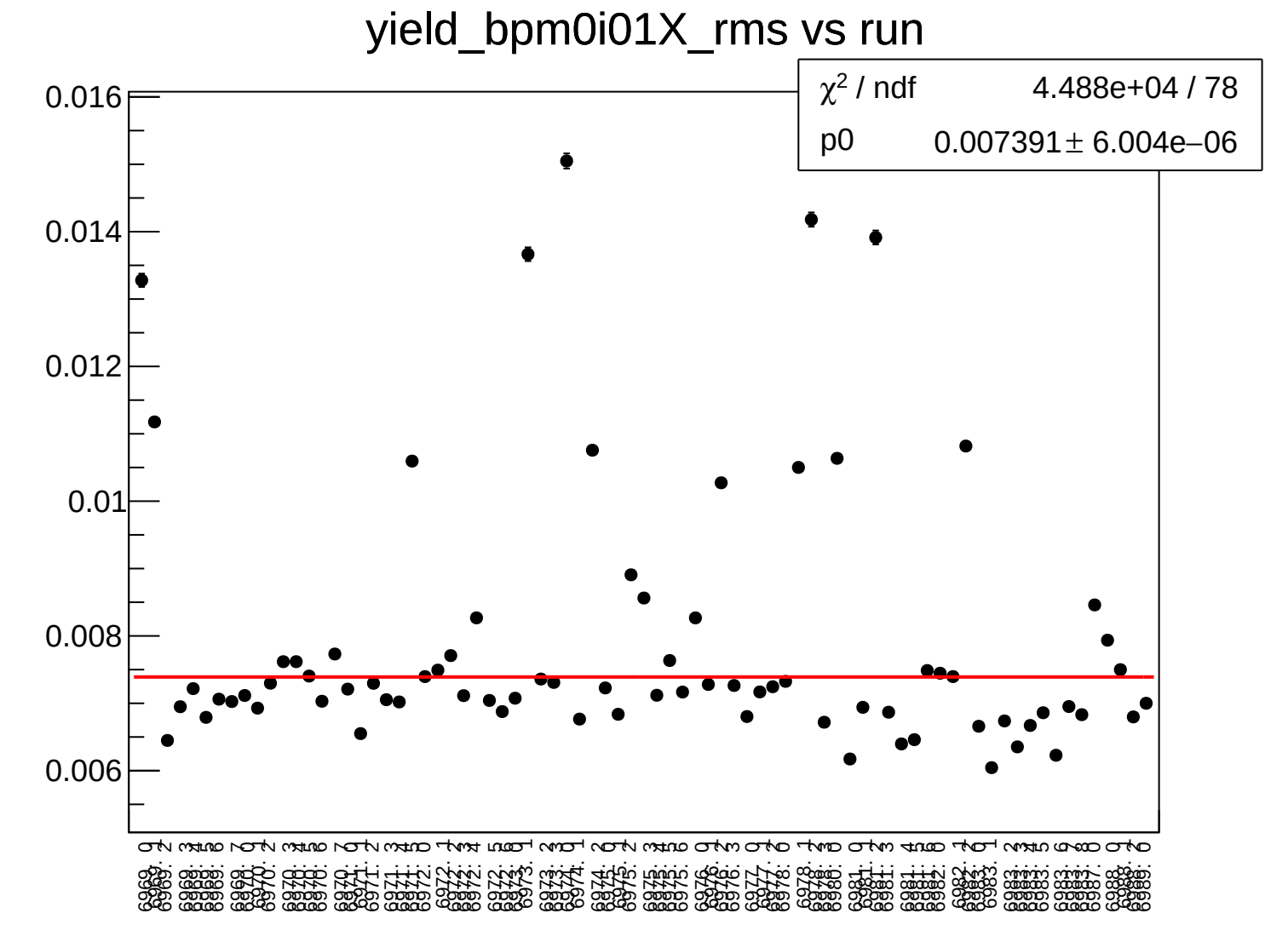

yield_bpm2i02Y_mean vs run
χ² / ndf 6.365e+06 / 78
p0 −2.448 ± 9.141e−06
−2.4
−2.42
−2.44
−2.46
−2.48
−2.5
−2.52
−2.54
pull
Entries 79
Mean −122.7
Std Dev 169.4
600
400
200
0
−200
−400
−600
−800
−1000
−1200

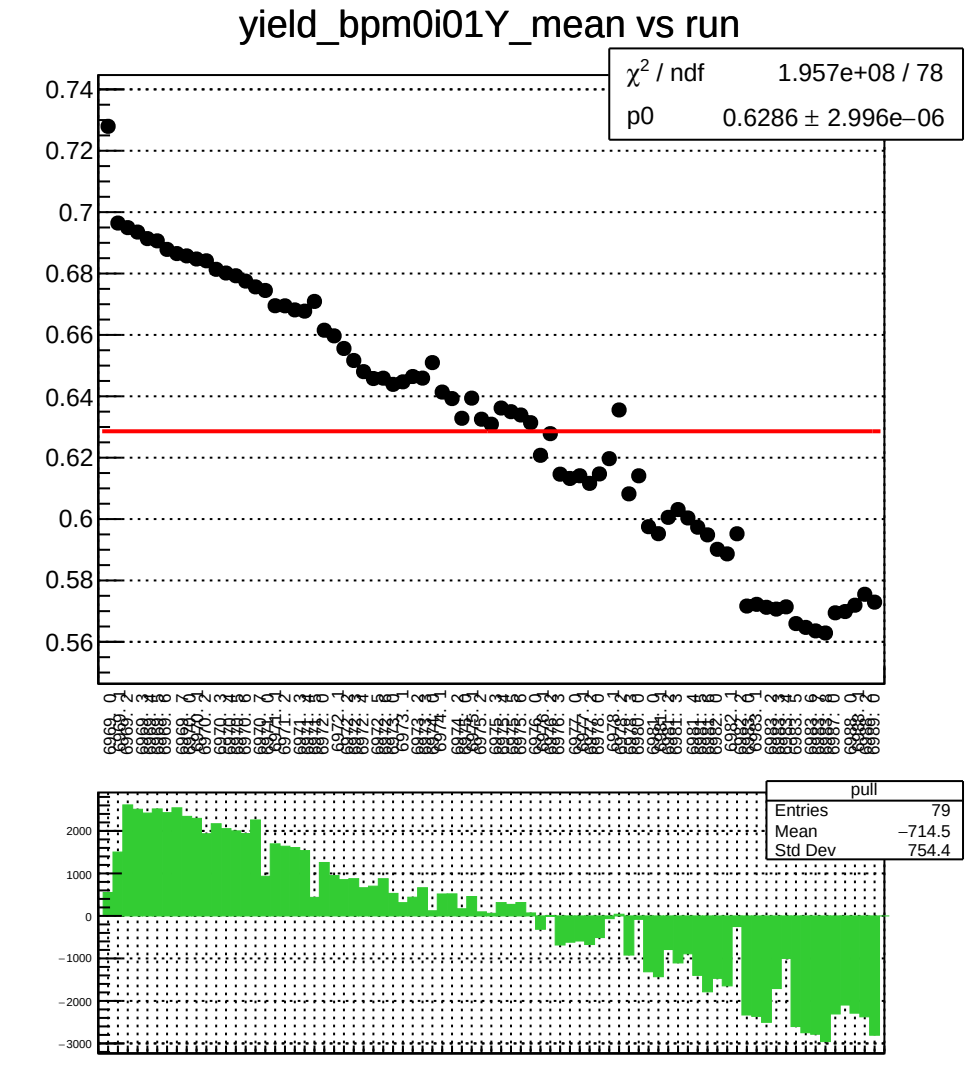

pull1D
Entries 79
Mean −0.7326
Std Dev 3.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

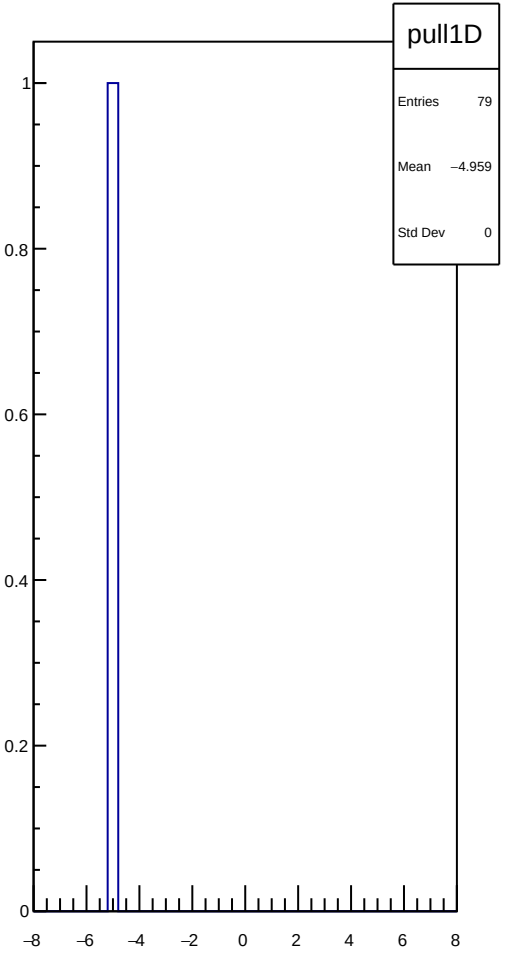

yield_bpm2i02Y_rms vs run
χ² / ndf 4768 / 78
p0 0.008061 ± 6.464e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007

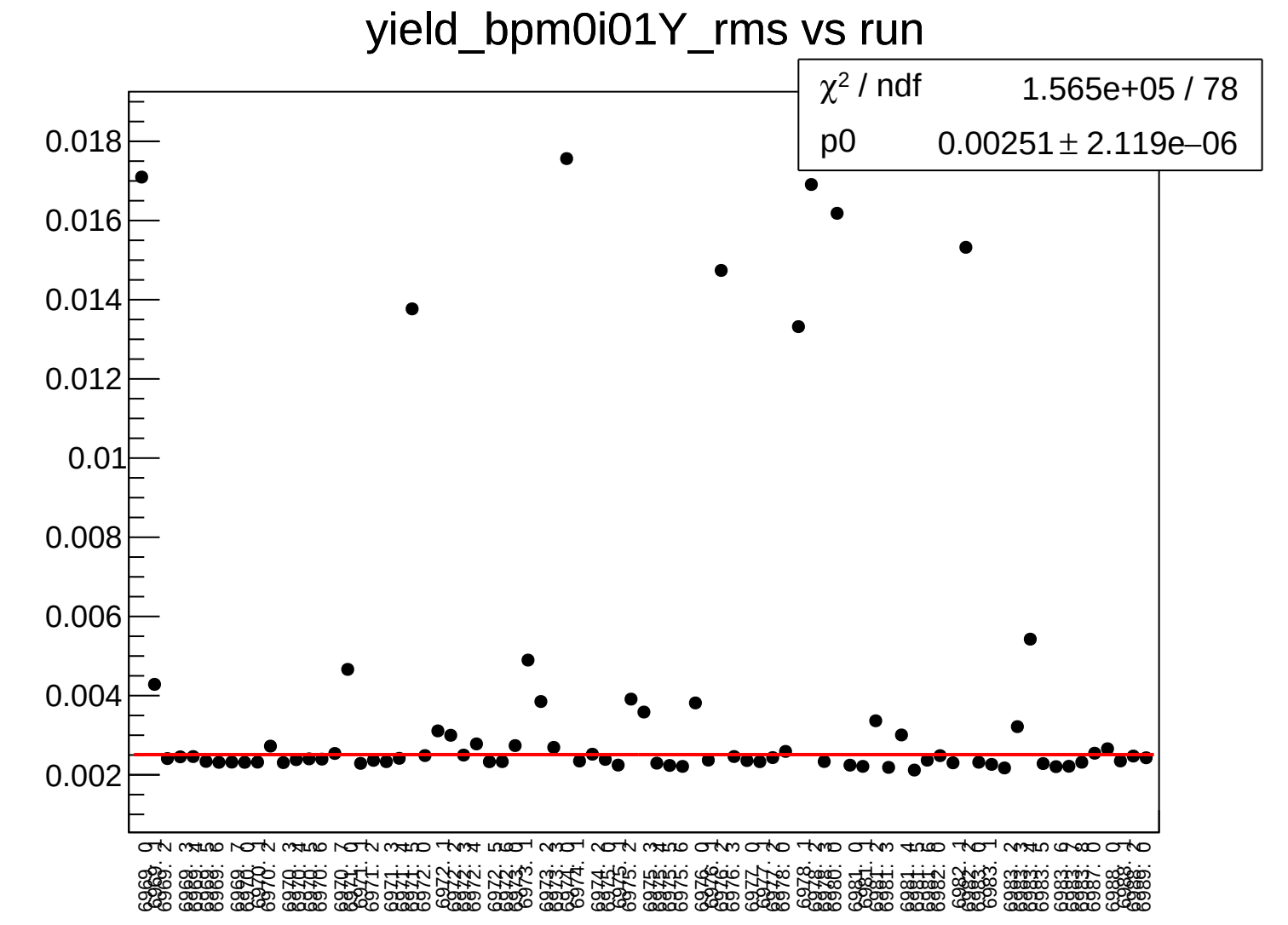

yield_bpm0i01X_mean vs run
χ² / ndf 3.276e+07 / 78
p0 −1.122 ± 8.491e−06
pull
Entries 79
Mean −695
Std Dev 733.9

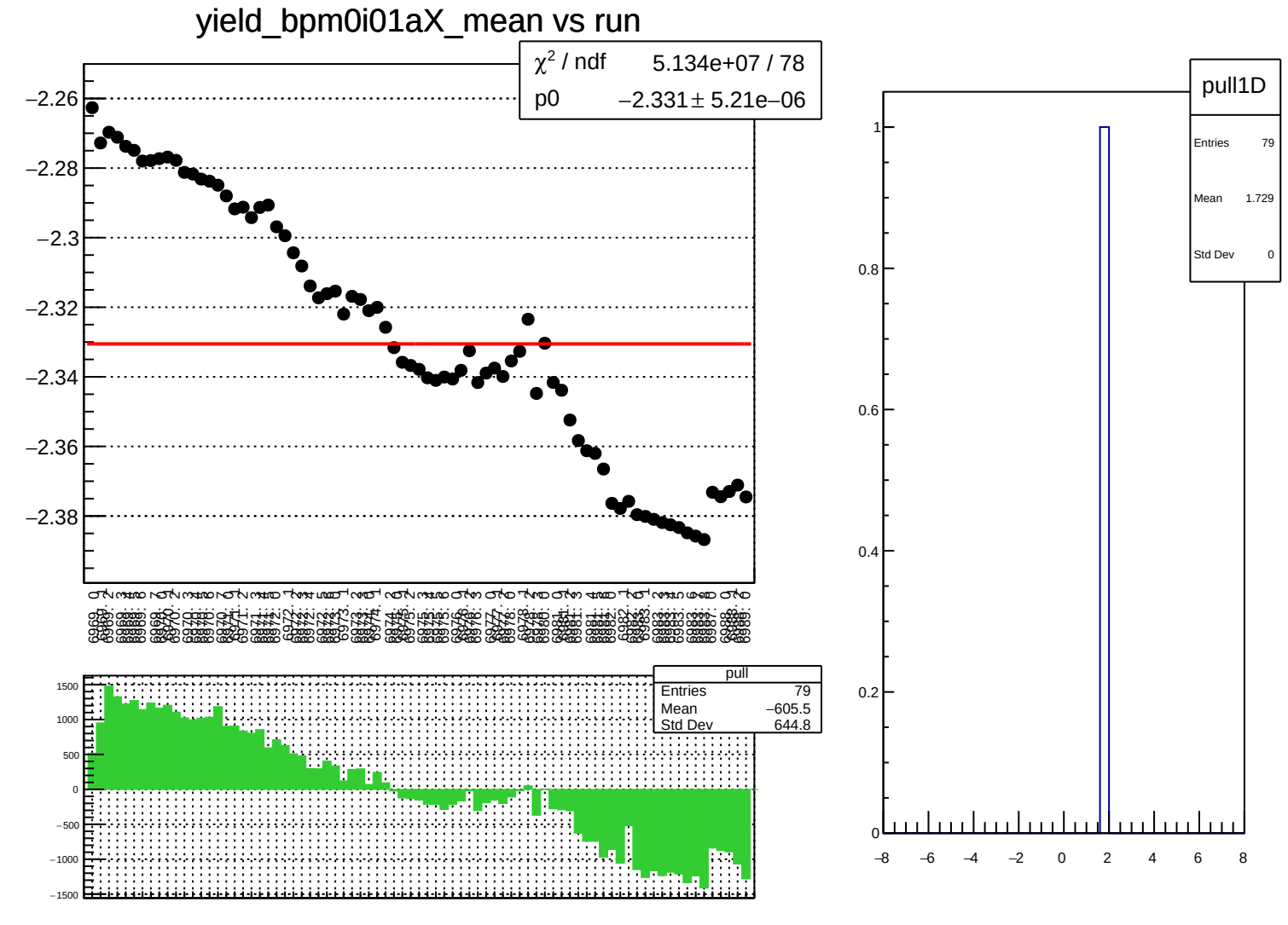

pull1D
Entries 79
Mean 0
Std Dev 0

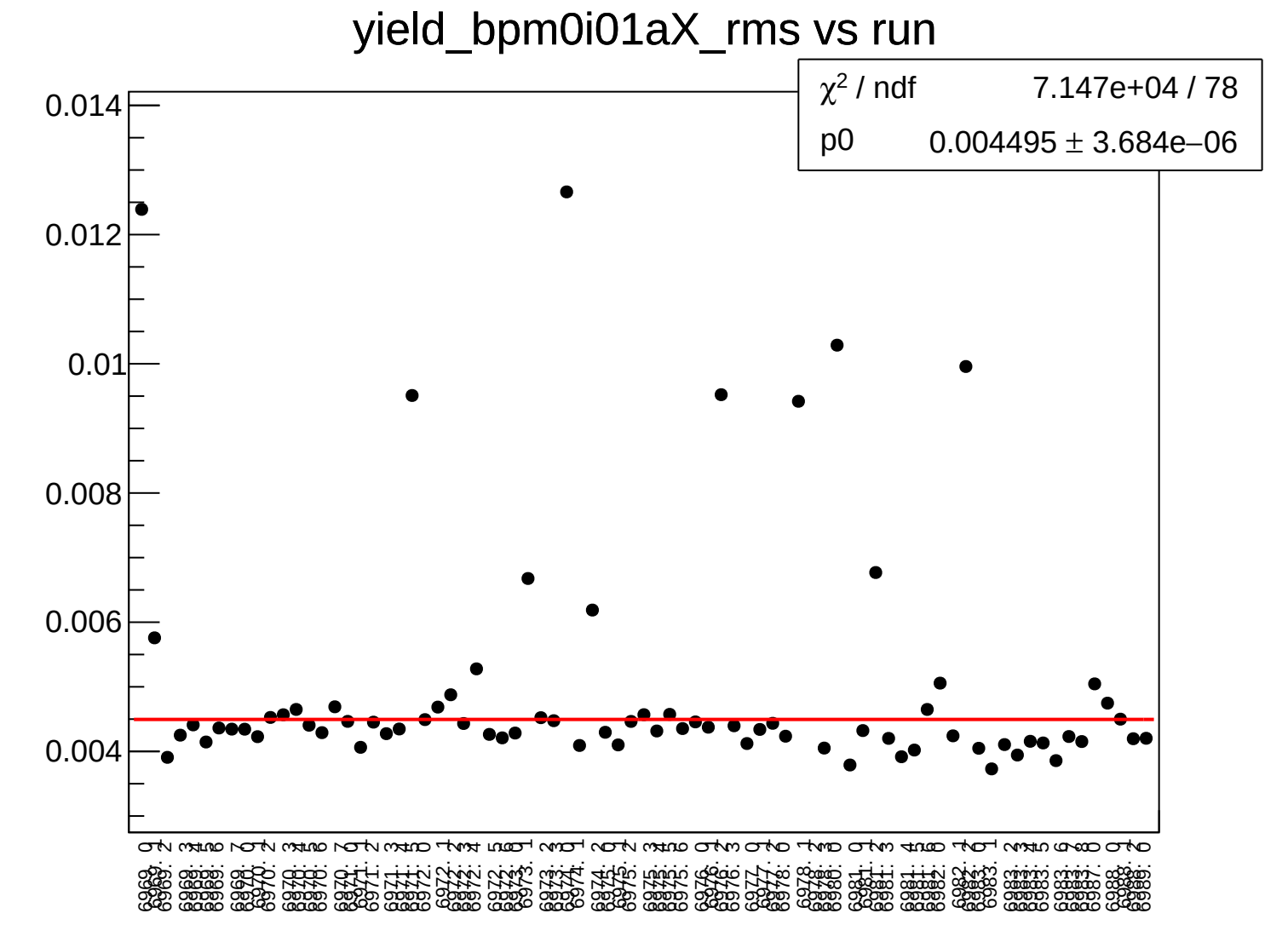

yield_bpm0i01X_rms vs run
χ² / ndf 4.488e+04 / 78
p0 0.007391 ± 6.004e−06
0.016
0.014
0.012
0.01
0.008
0.006

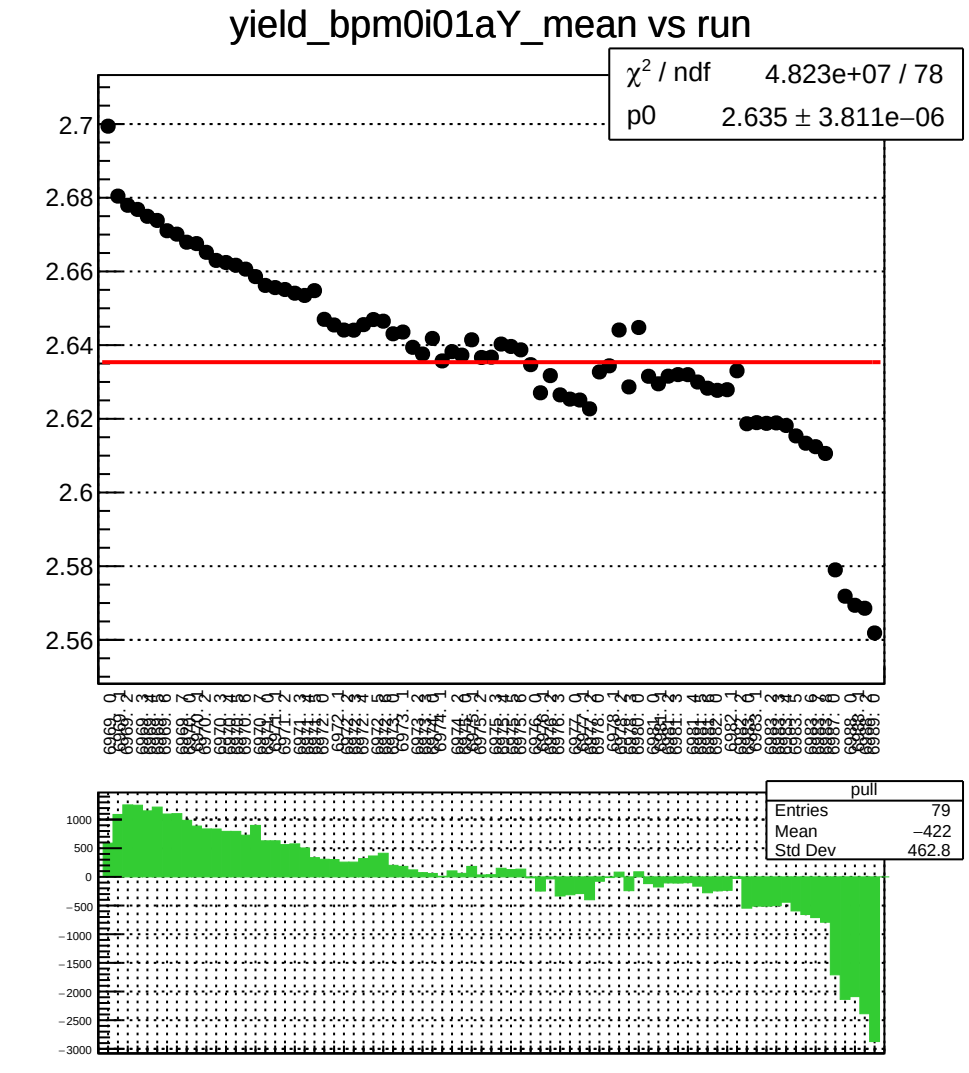

yield_bpm0i01Y_mean vs run
χ² / ndf 1.957e+08 / 78
p0 0.6286 ± 2.996e−06
pull
Entries 79
Mean −714.5
Std Dev 754.4

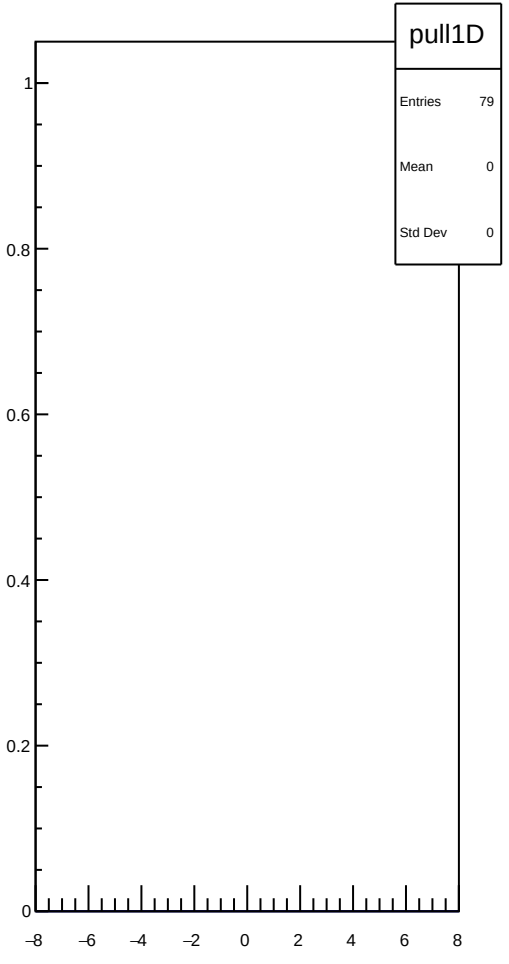

pull1D
Entries 79
Mean −4.959
Std Dev 0

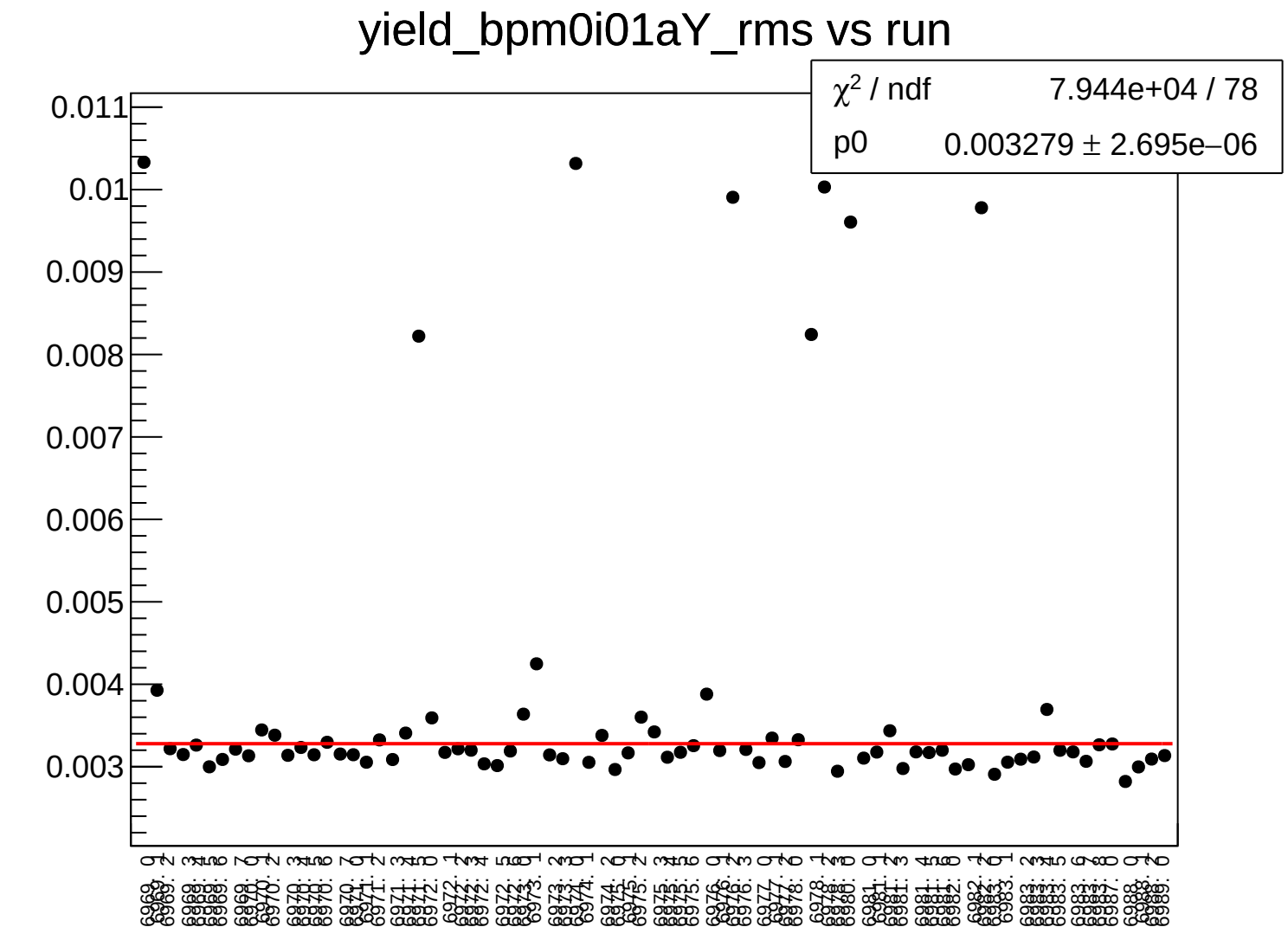

yield_bpm0i01Y_rms vs run
χ² / ndf 1.565e+05 / 78
p0 0.00251 ± 2.119e–06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

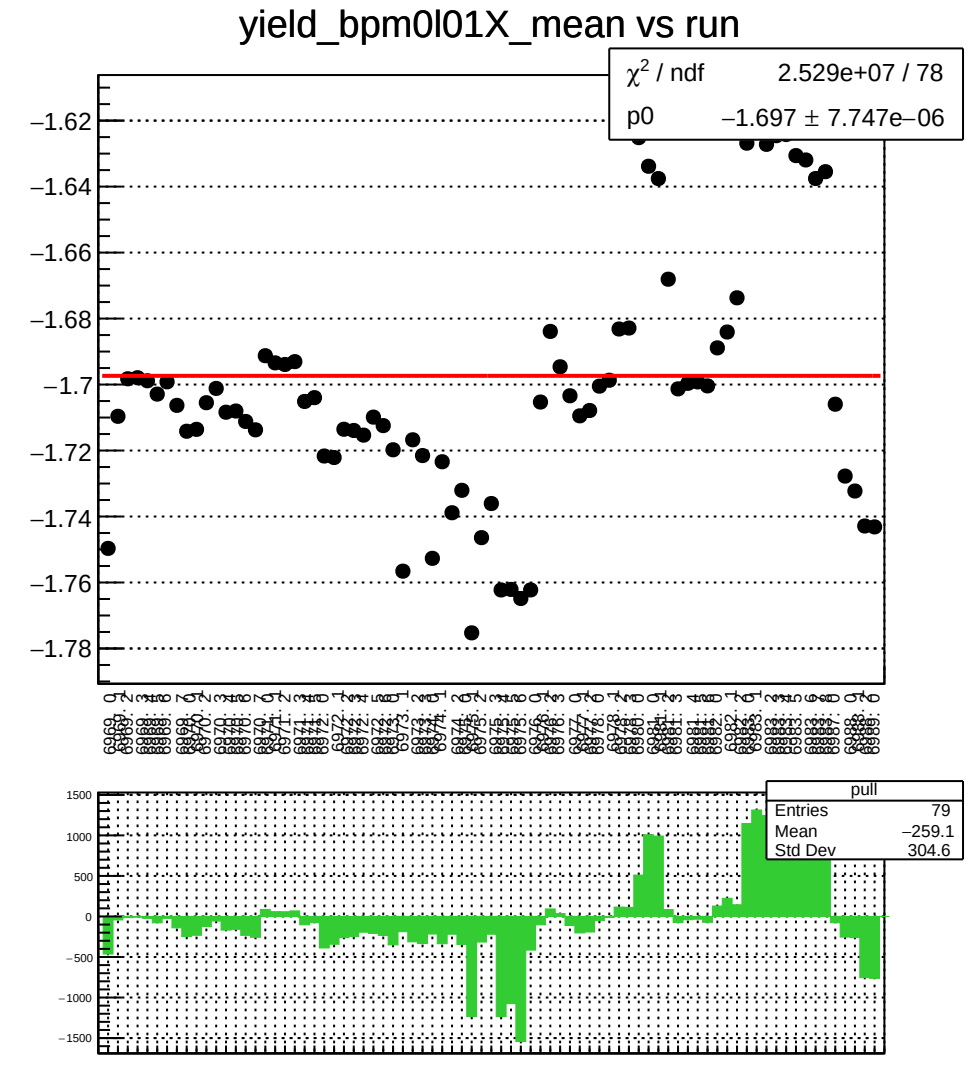

yield_bpm0i01aX_mean vs run
χ² / ndf 5.134e+07 / 78
p0 −2.331 ± 5.21e−06
−2.26
−2.28
−2.3
−2.32
−2.34
−2.36
−2.38
pull
Entries 79
Mean −605.5
Std Dev 644.8
1500
1000
500
0
−500
−1000
−1500
pull1D
Entries 79
Mean 1.729
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

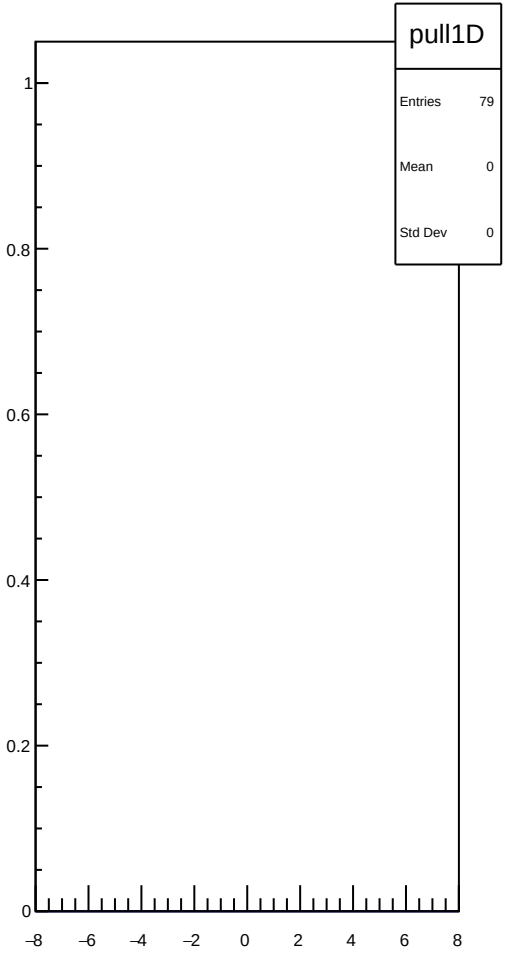

yield_bpm0i01aX_rms vs run
χ² / ndf 7.147e+04 / 78
p0 0.004495 ± 3.684e−06
0.014
0.012
0.01
0.008
0.006
0.004

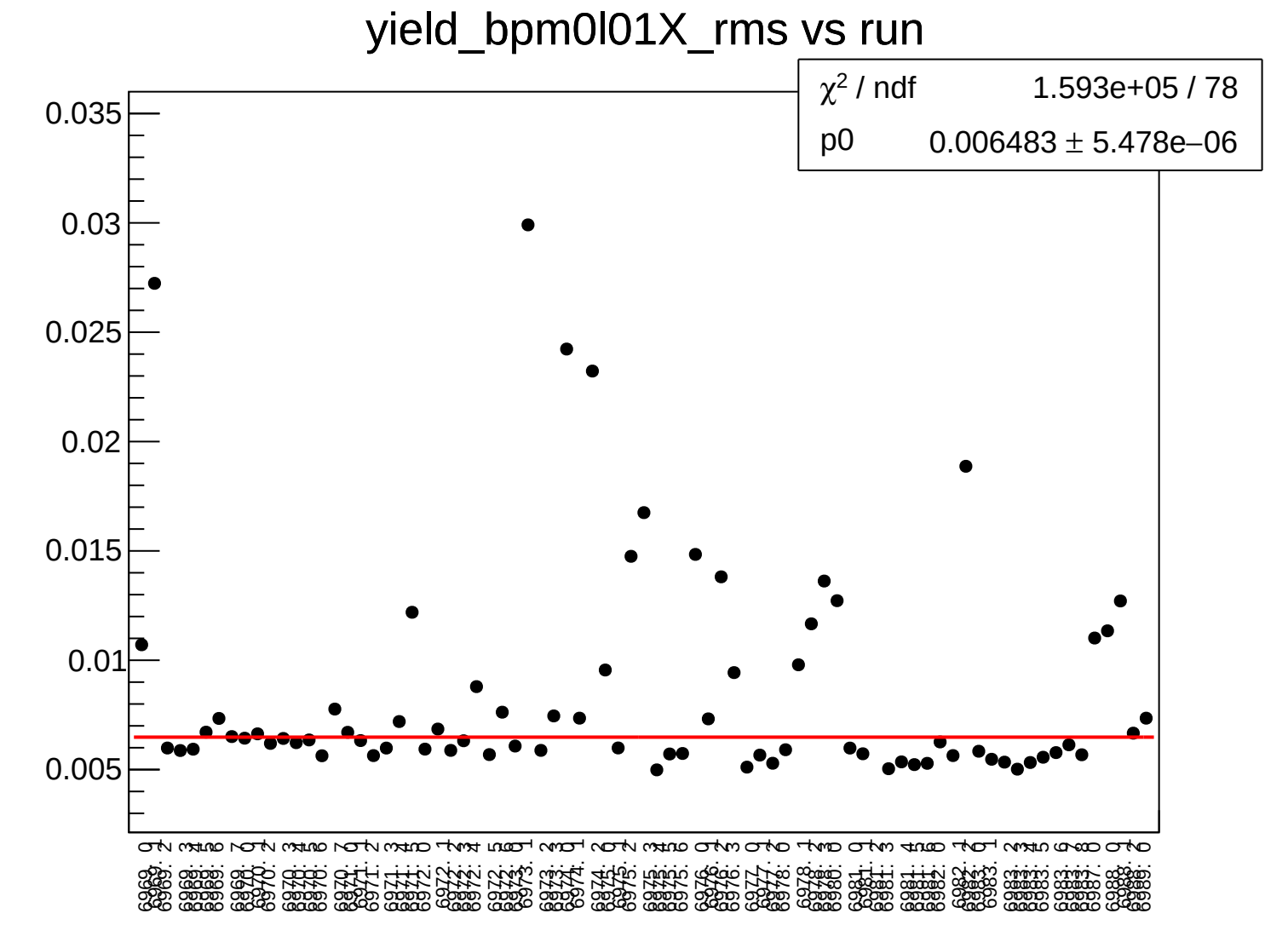

yield_bpm0i01aY_mean vs run
χ² / ndf 4.823e+07 / 78
p0 2.635 ± 3.811e−06
2.7
2.68
2.66
2.64
2.62
2.6
2.58
2.56
pull
Entries 79
Mean −422
Std Dev 462.8
1000
500
0
−500
−1000
−1500
−2000
−2500
−3000

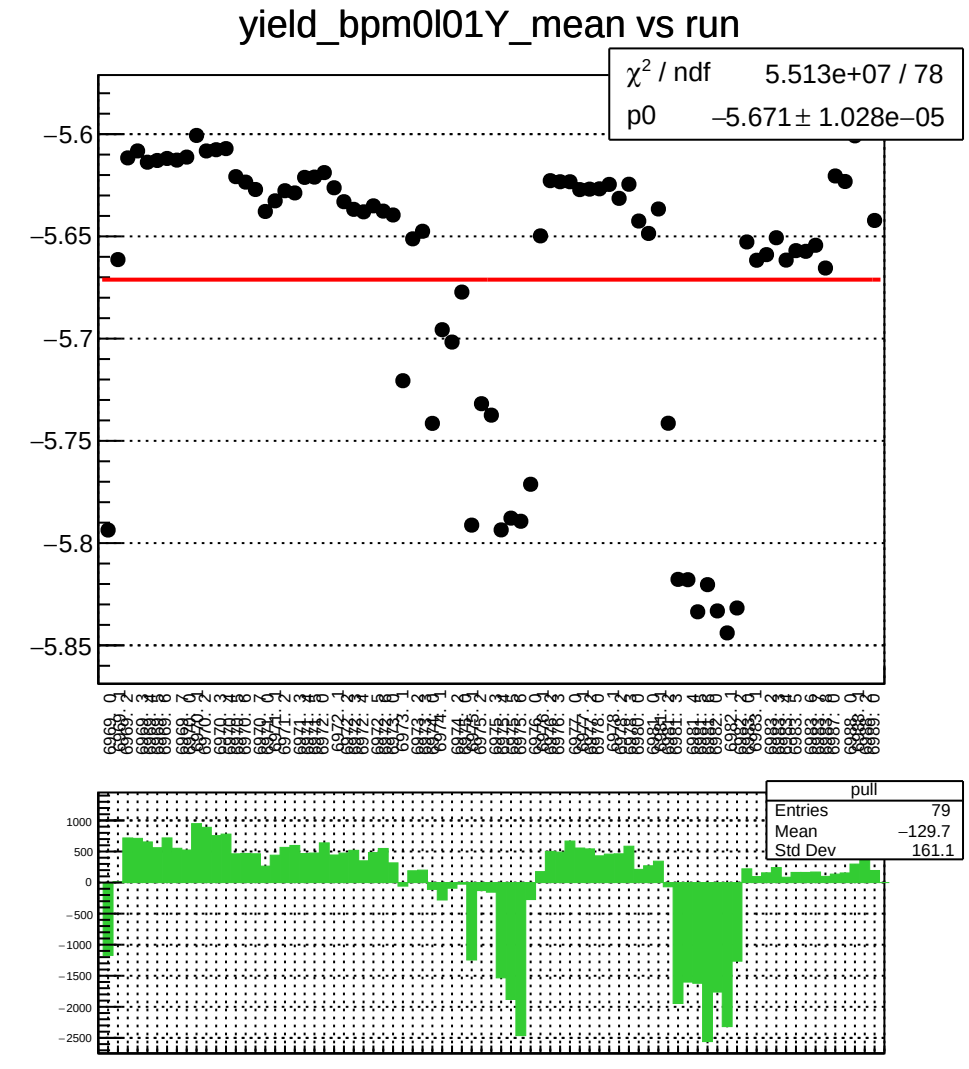

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

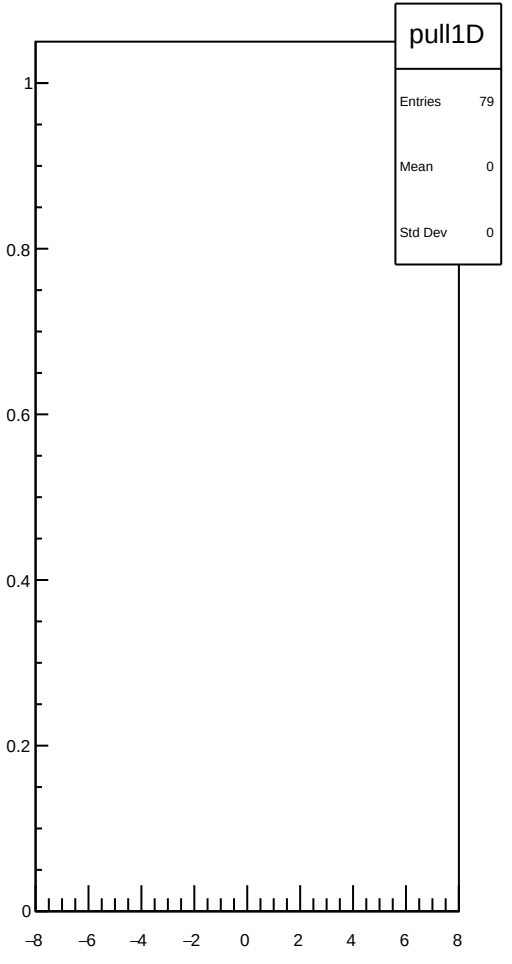

yield_bpm0i01aY_rms vs run
χ² / ndf 7.944e+04 / 78
p0 0.003279 ± 2.695e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

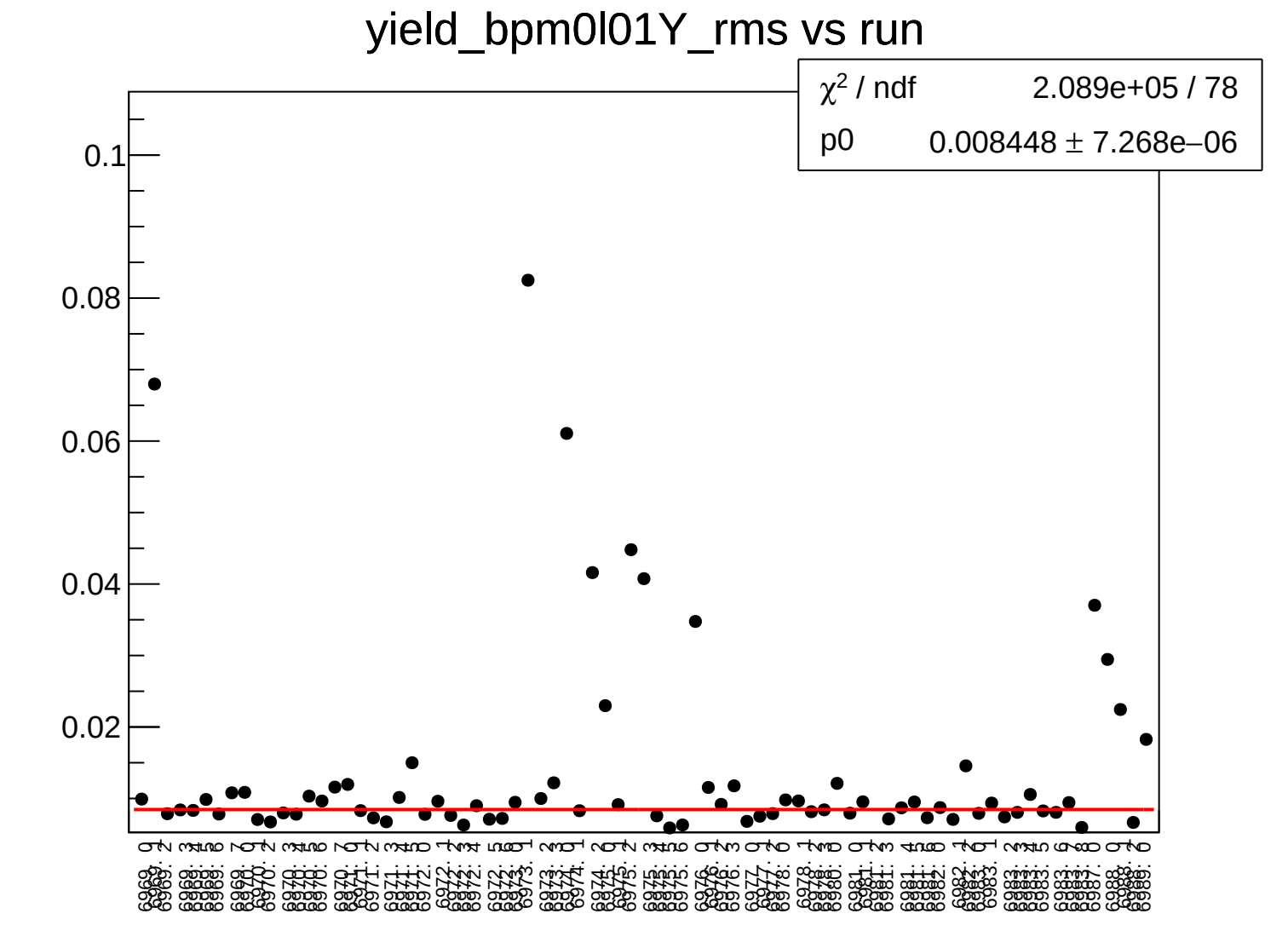

yield_bpm0l01X_mean vs run
χ² / ndf 2.529e+07 / 78
p0 −1.697 ± 7.747e−06
−1.62
−1.64
−1.66
−1.68
−1.7
−1.72
−1.74
−1.76
−1.78
pull
Entries 79
Mean −259.1
Std Dev 304.6
1500
1000
500
0
−500
−1000
−1500

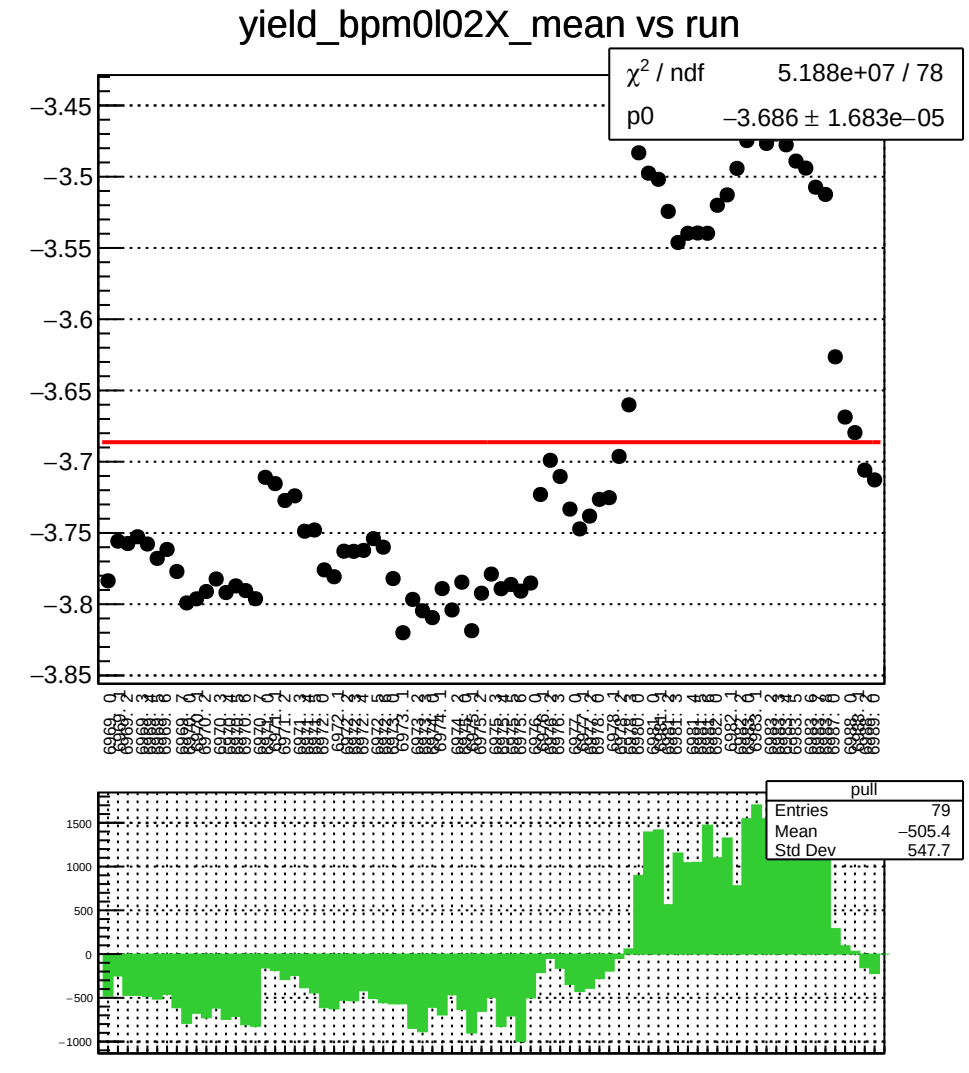

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

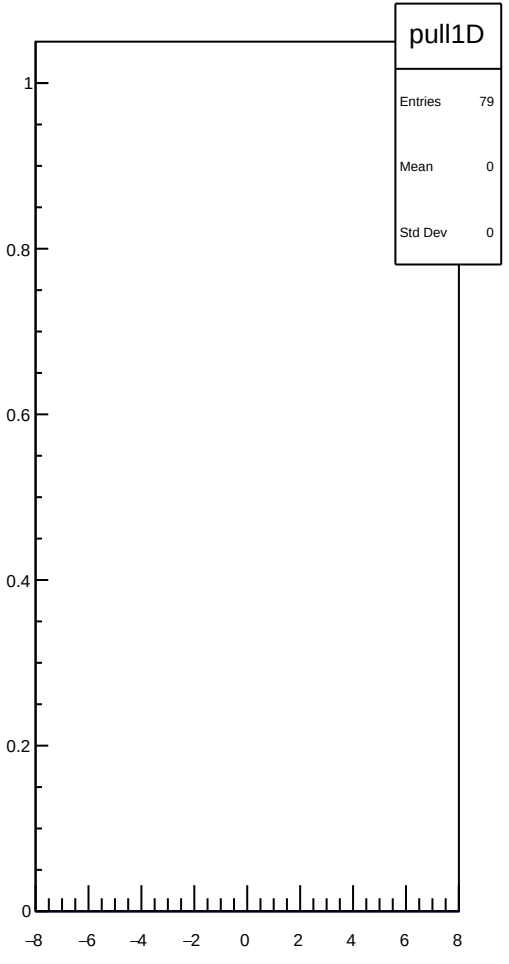

yield_bpm0l01X_rms vs run
χ² / ndf 1.593e+05 / 78
p0 0.006483 ± 5.478e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

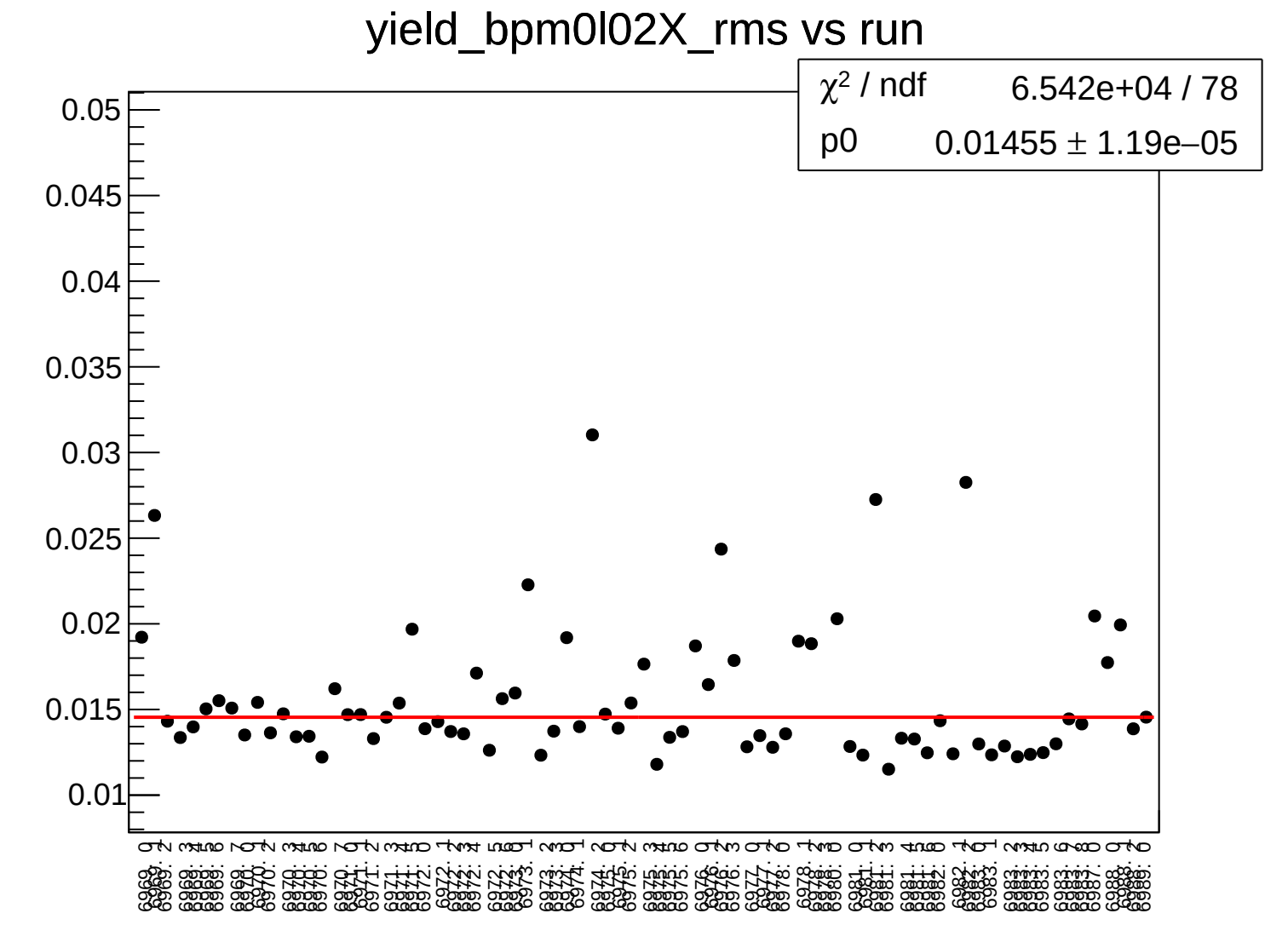

yield_bpm0l01Y_mean vs run
χ² / ndf 5.513e+07 / 78
p0 −5.671 ± 1.028e−05
−5.6
−5.65
−5.7
−5.75
−5.8
−5.85
pull
Entries 79
Mean −129.7
Std Dev 161.1
1000
500
0
−500
−1000
−1500
−2000
−2500

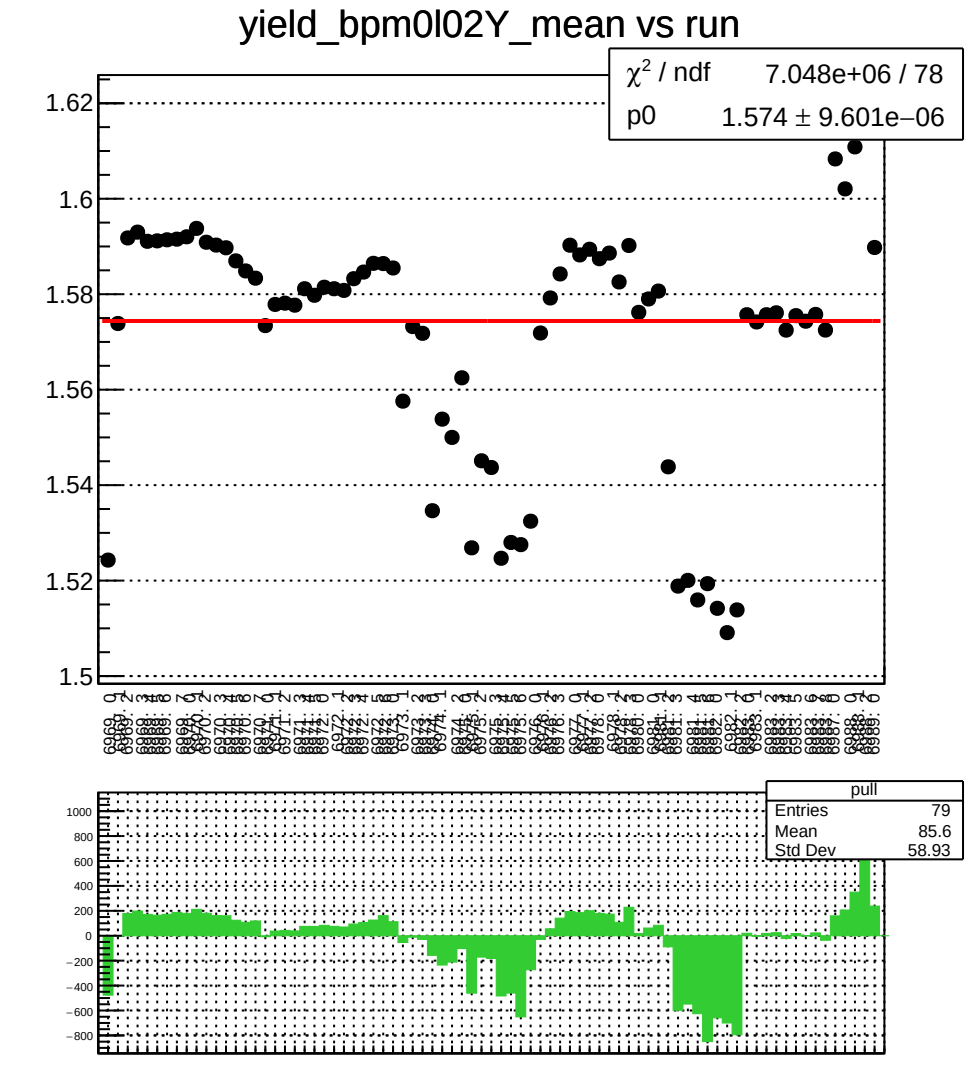

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

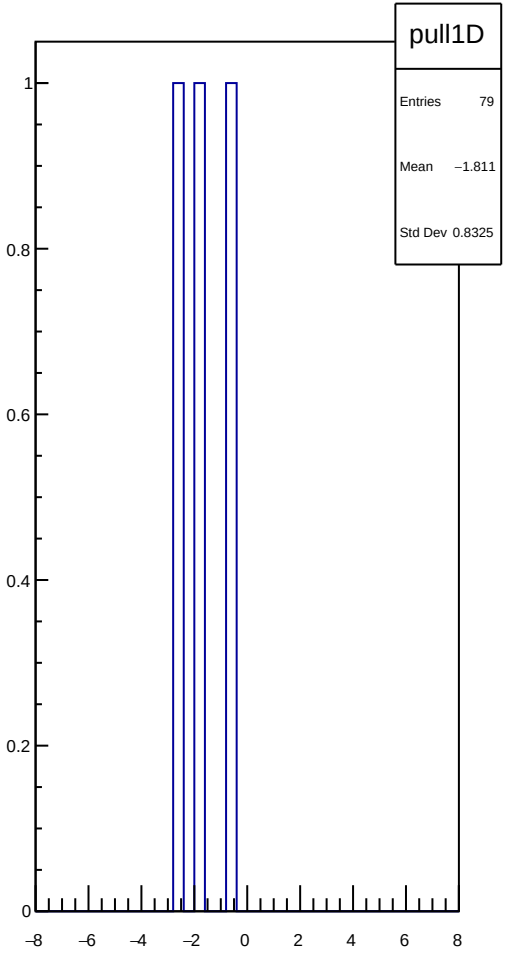

yield_bpm0l01Y_rms vs run
χ² / ndf 2.089e+05 / 78
p0 0.008448 ± 7.268e−06
0.1
0.08
0.06
0.04
0.02

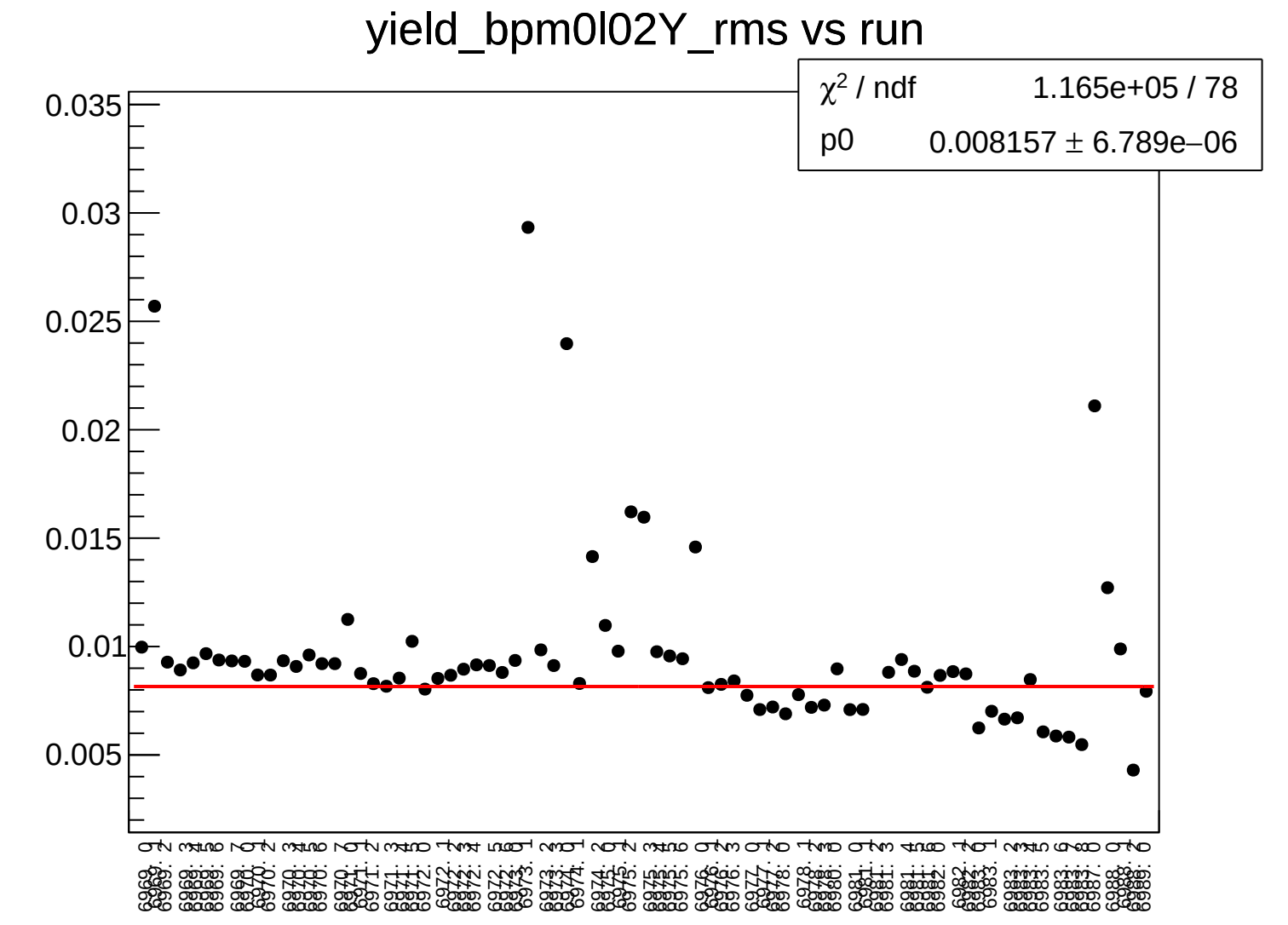

yield_bpm0l02X_mean vs run
χ² / ndf 5.188e+07 / 78
p0 −3.686 ± 1.683e−05
−3.45
−3.5
−3.55
−3.6
−3.65
−3.7
−3.75
−3.8
−3.85
pull
Entries 79
Mean −505.4
Std Dev 547.7
1500
1000
500
0
−500
−1000

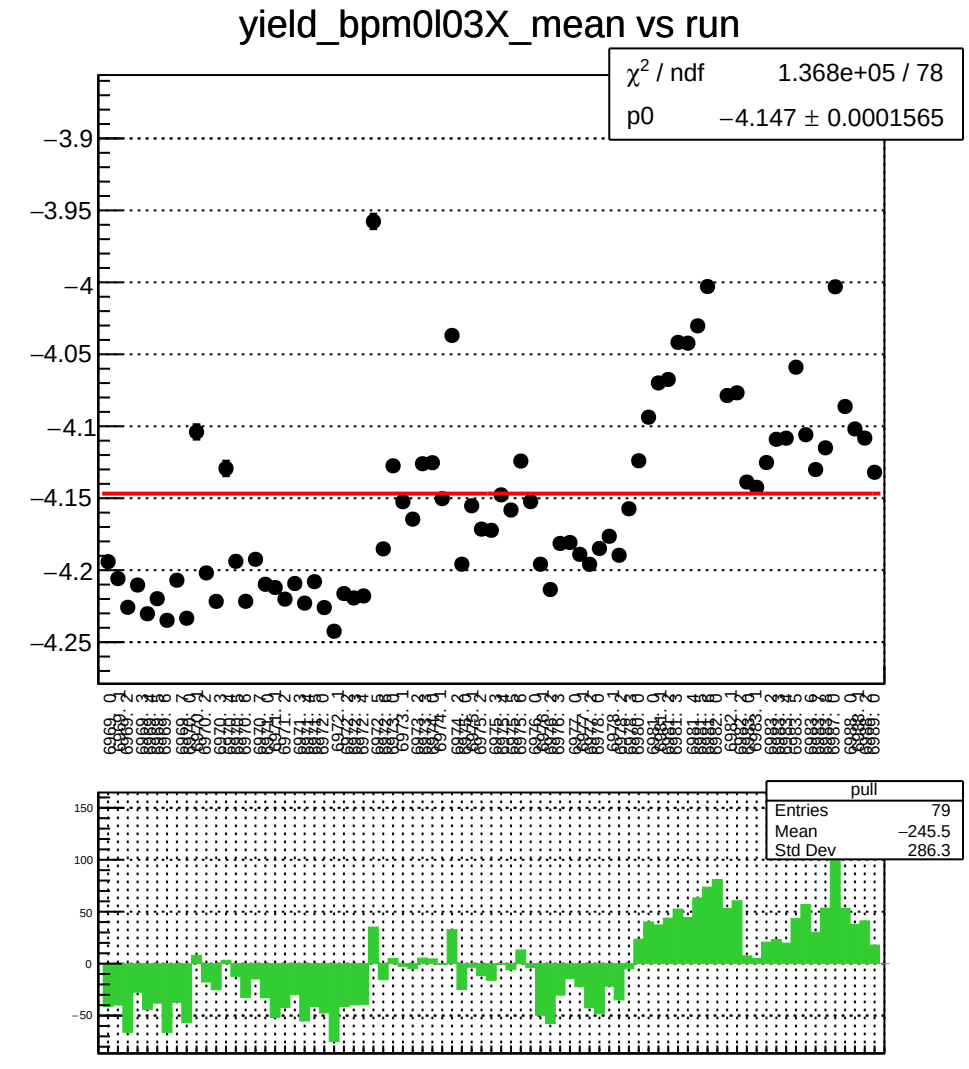

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

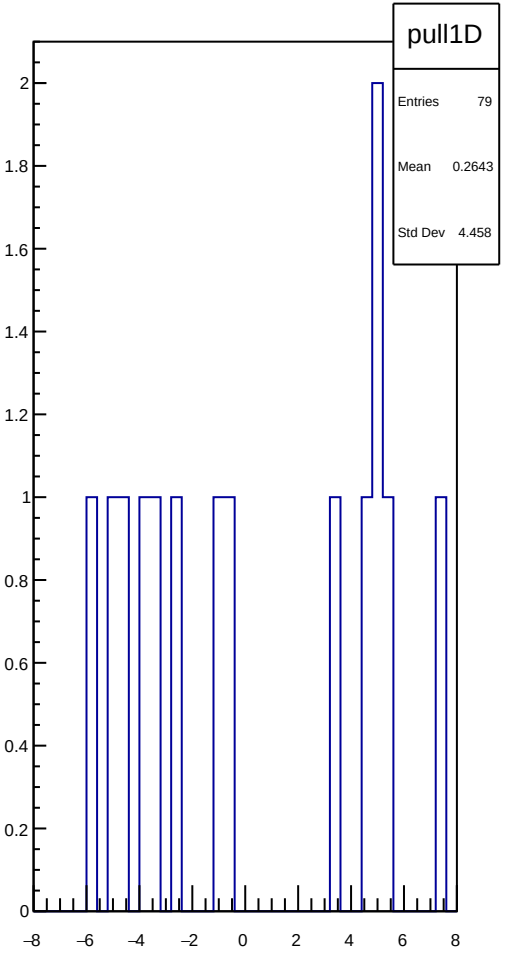

yield_bpm0l02X_rms vs run
χ² / ndf 6.542e+04 / 78
p0 0.01455 ± 1.19e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

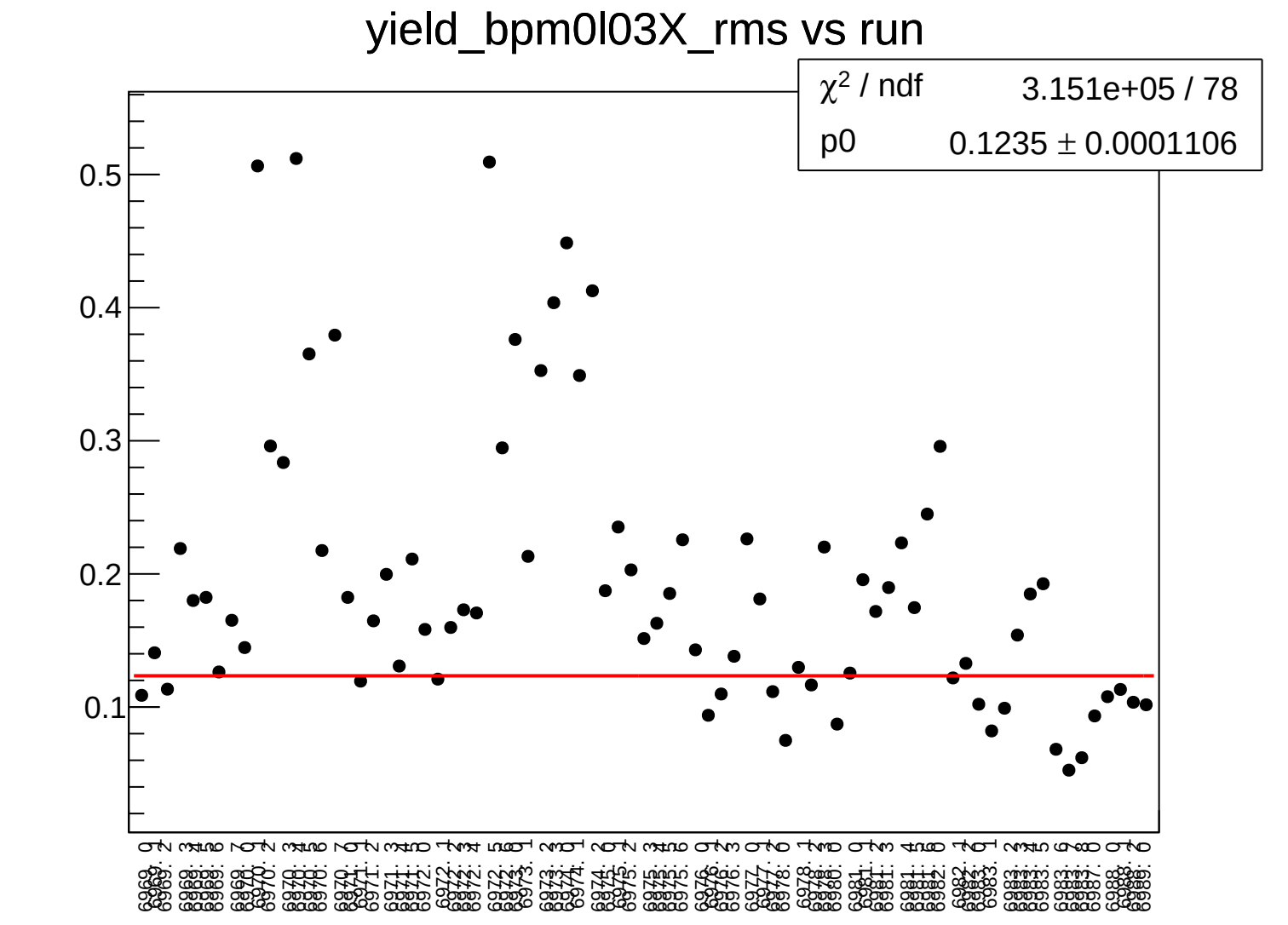

yield_bpm0l02Y_mean vs run
χ² / ndf 7.048e+06 / 78
p0 1.574 ± 9.601e−06
1.62
1.6
1.58
1.56
1.54
1.52
1.5
pull
Entries 79
Mean 85.6
Std Dev 58.93
1000
800
600
400
200
0
−200
−400
−600
−800

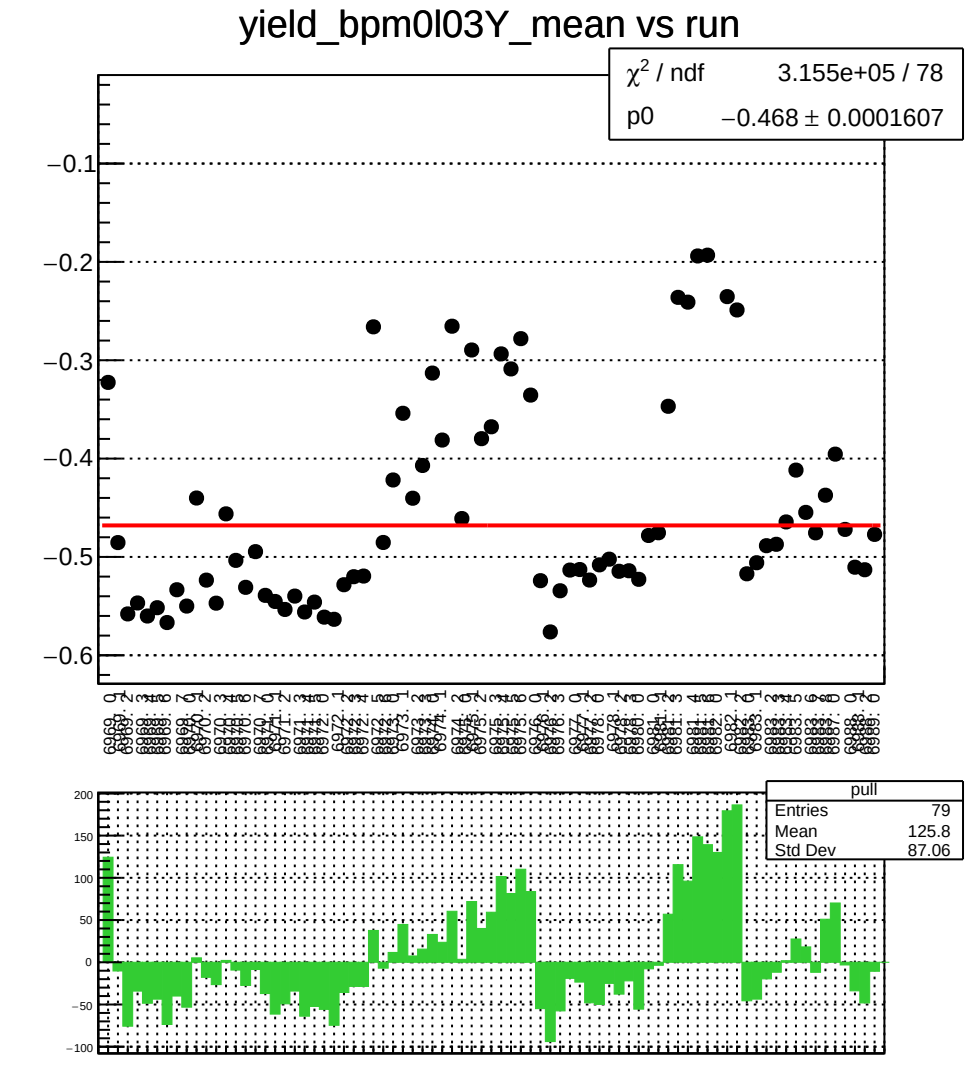

pull1D
Entries 79
Mean −1.811
Std Dev 0.8325
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

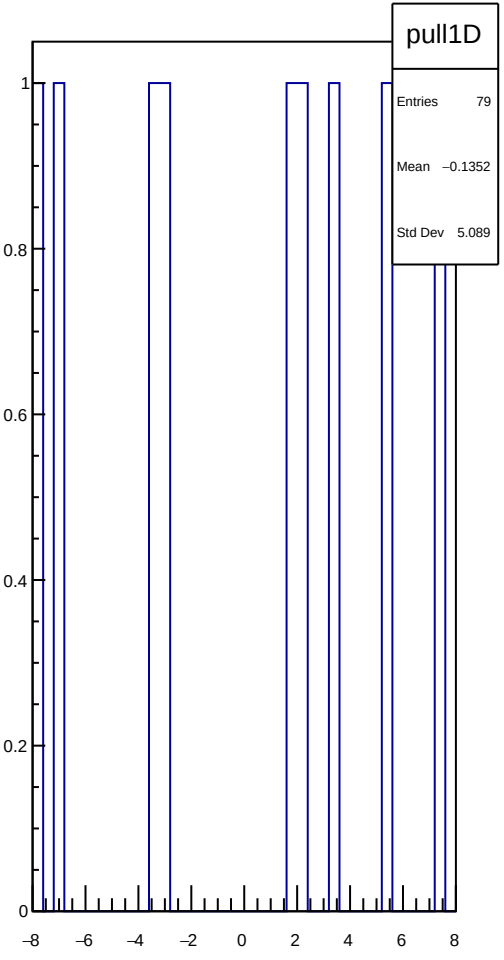

yield_bpm0l02Y_rms vs run
χ² / ndf 1.165e+05 / 78
p0 0.008157 ± 6.789e−06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

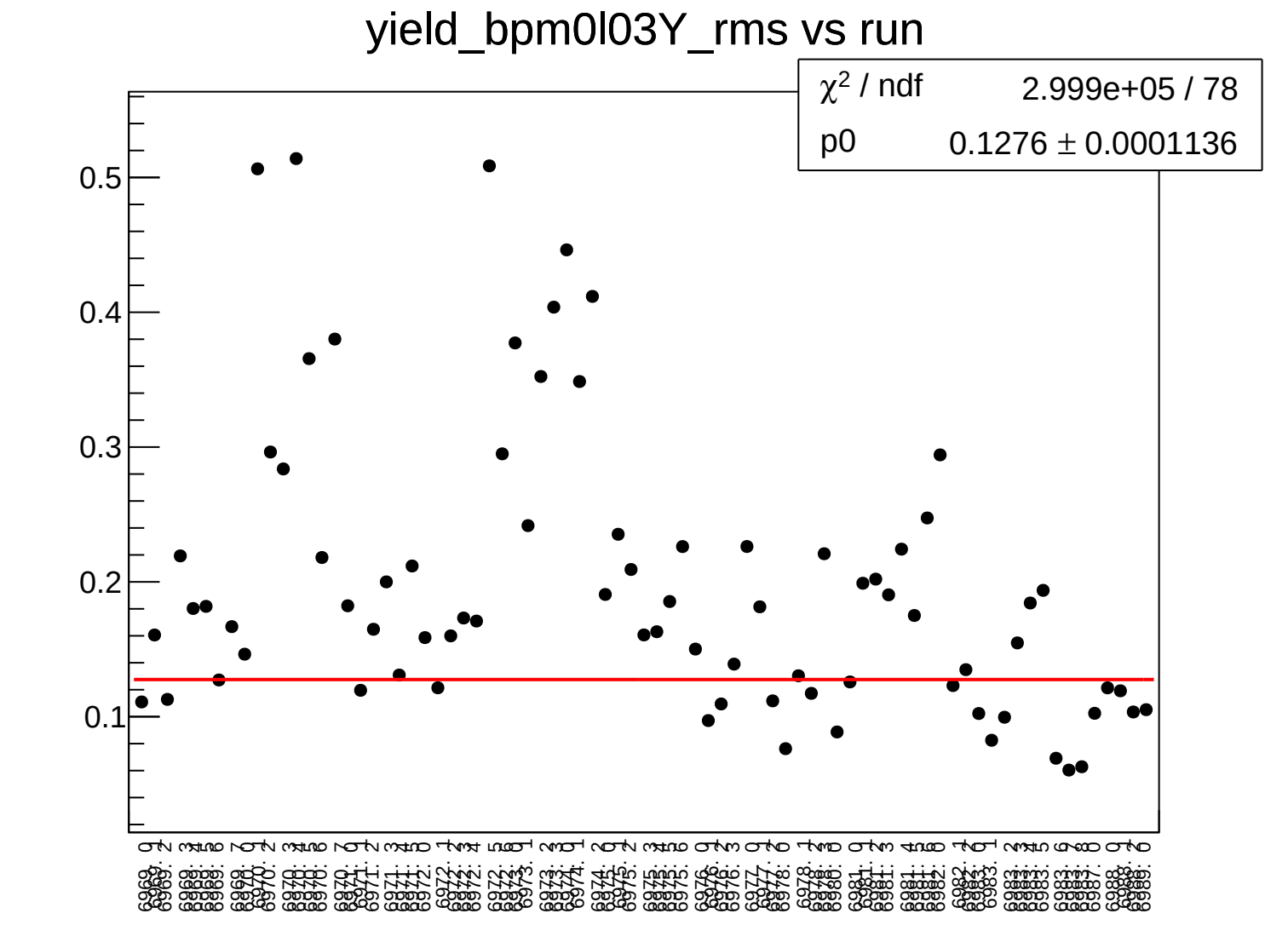

yield_bpm0l03X_mean vs run
χ² / ndf 1.368e+05 / 78
p0 −4.147 ± 0.0001565
−3.9
−3.95
−4
−4.05
−4.1
−4.15
−4.2
−4.25
pull
Entries 79
Mean −245.5
Std Dev 286.3
150
100
50
0
−50

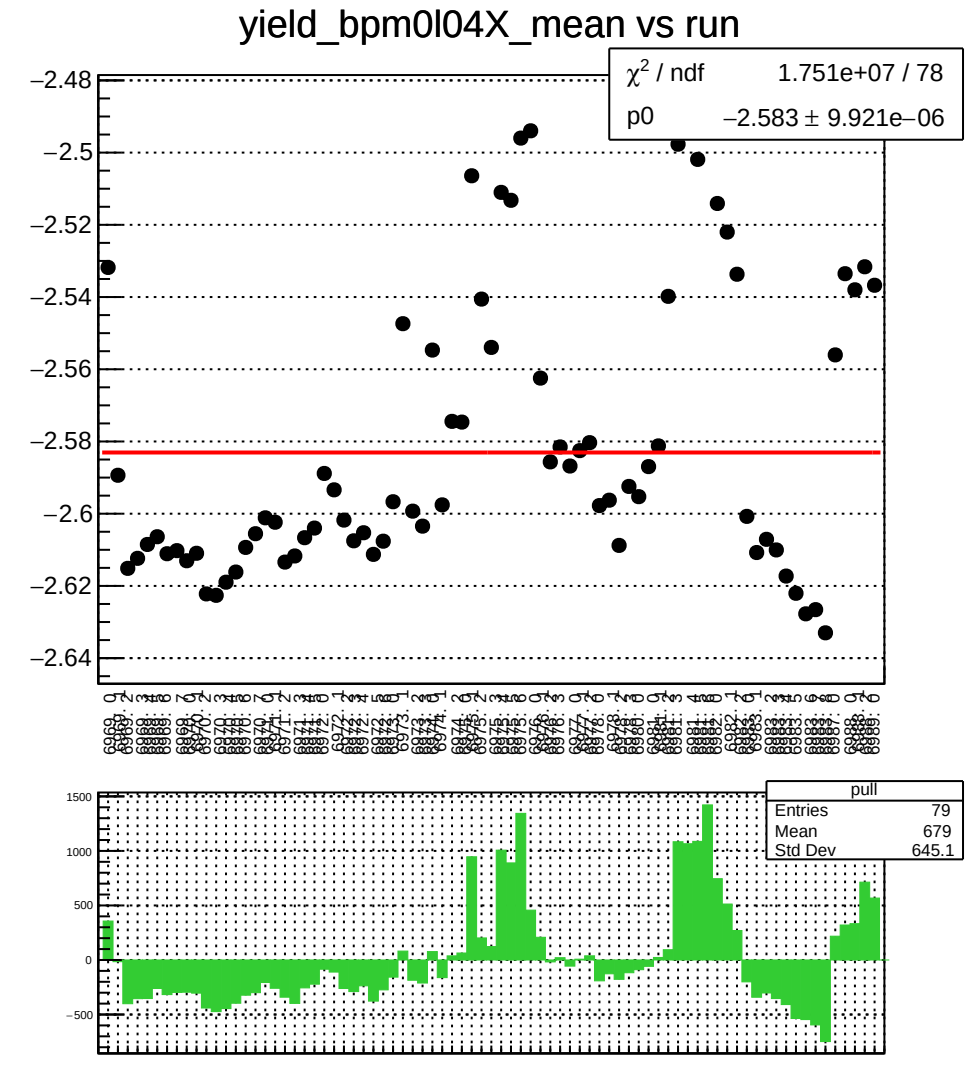

pull1D
Entries 79
Mean 0.2643
Std Dev 4.458
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

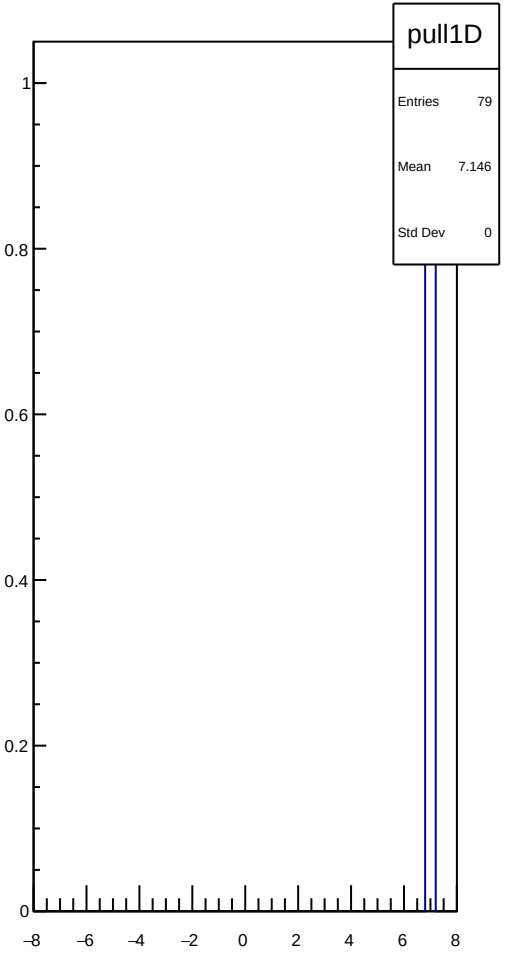

yield_bpm0l03X_rms vs run
χ² / ndf 3.151e+05 / 78
p0 0.1235 ± 0.0001106
0.5
0.4
0.3
0.2
0.1

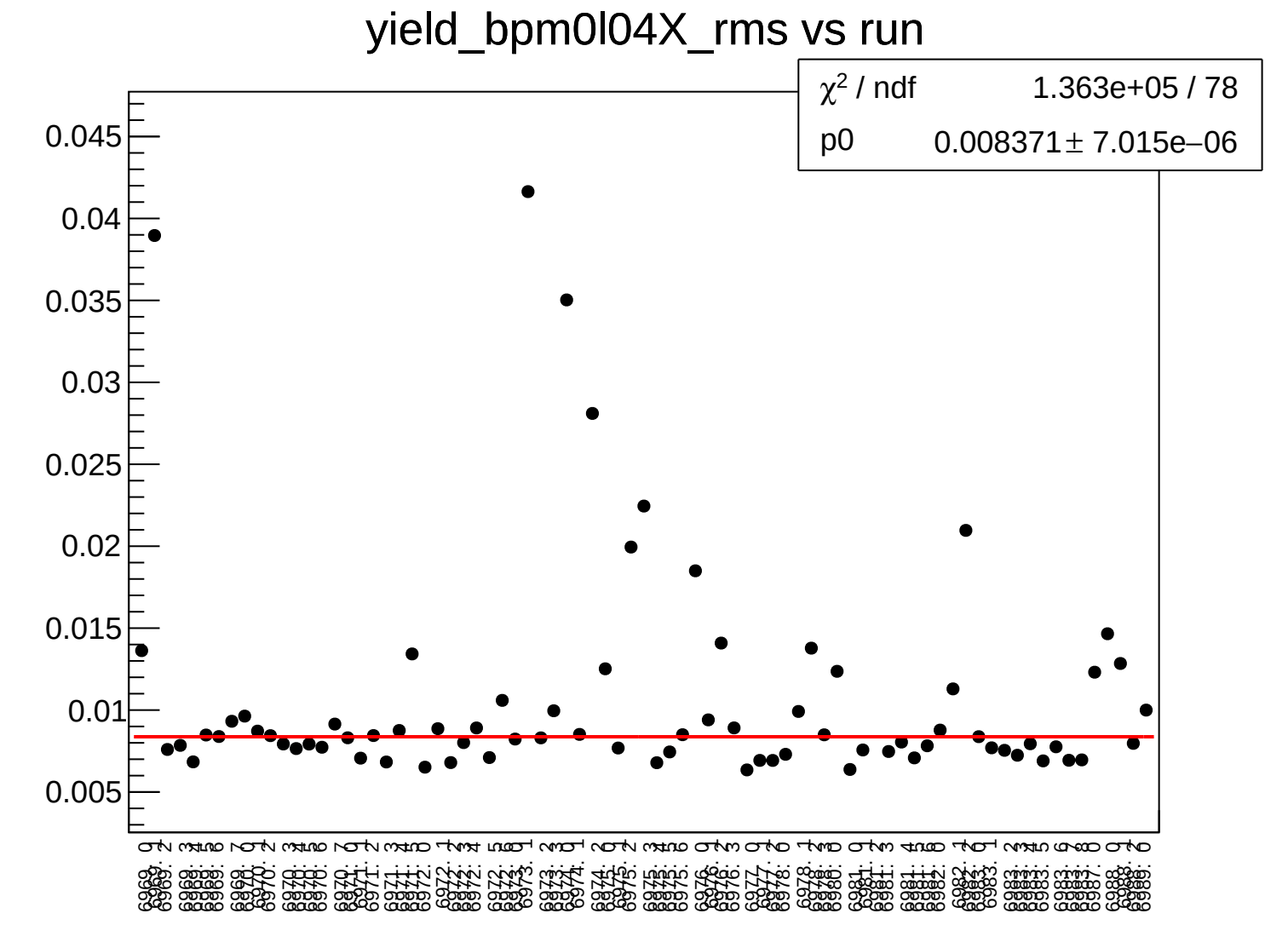

yield_bpm0l03Y_mean vs run
χ² / ndf 3.155e+05 / 78
p0 −0.468 ± 0.0001607
pull
Entries 79
Mean 125.8
Std Dev 87.06

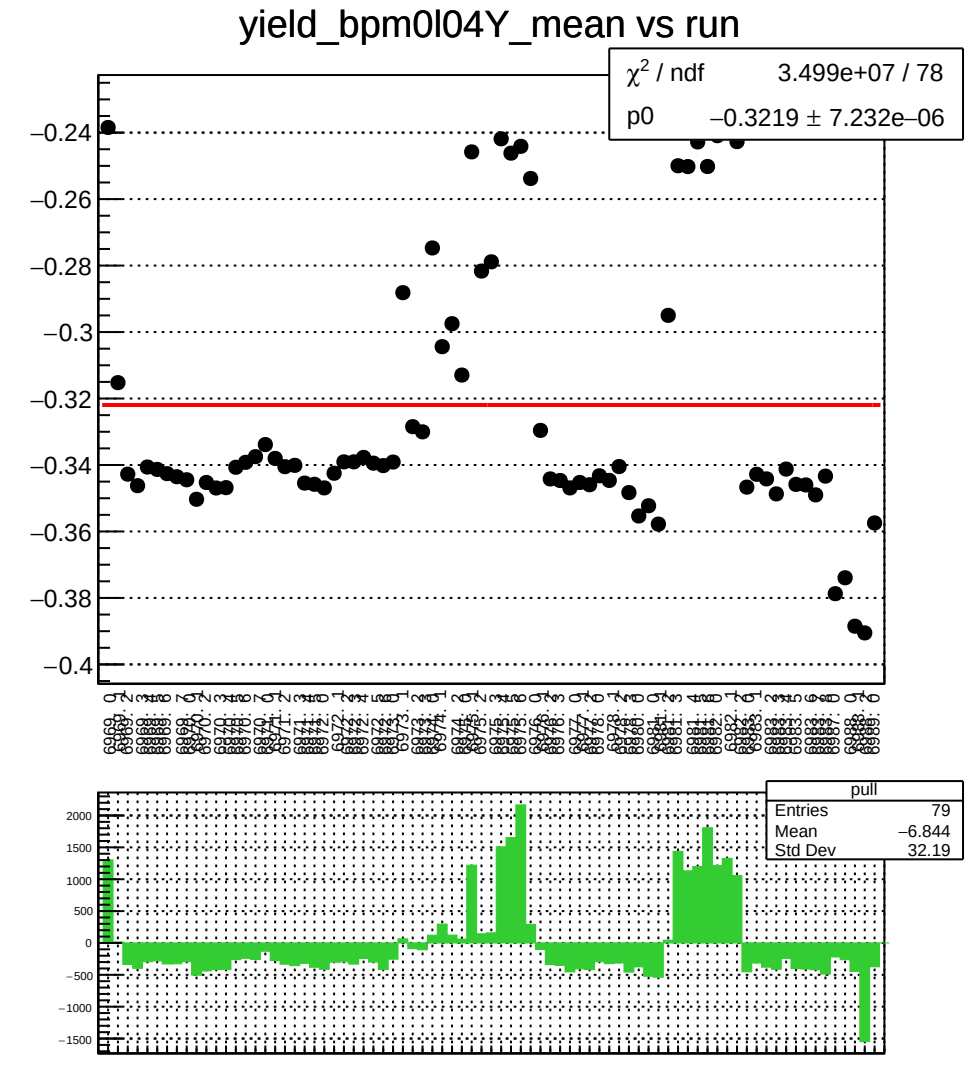

pull1D
Entries 79
Mean −0.1352
Std Dev 5.089

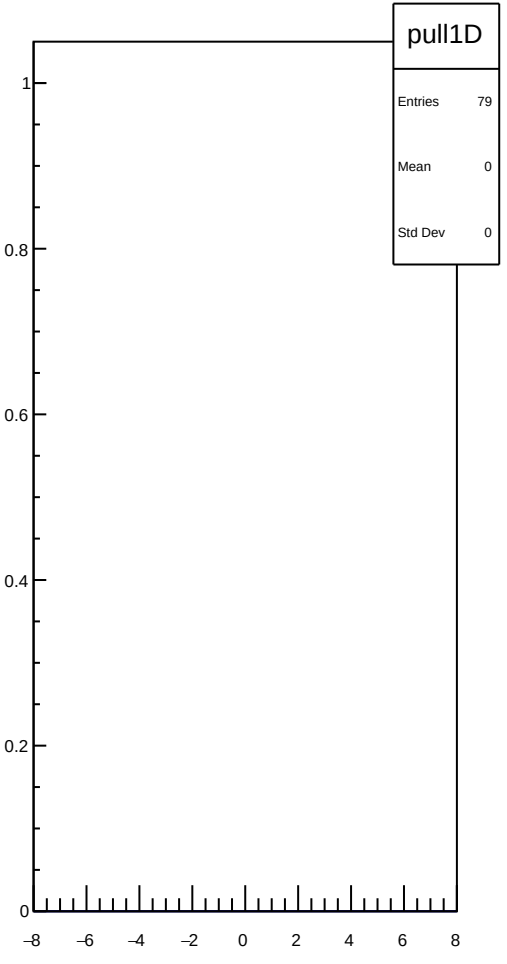

yield_bpm0l03Y_rms vs run
χ² / ndf 2.999e+05 / 78
p0 0.1276 ± 0.0001136
0.5
0.4
0.3
0.2
0.1

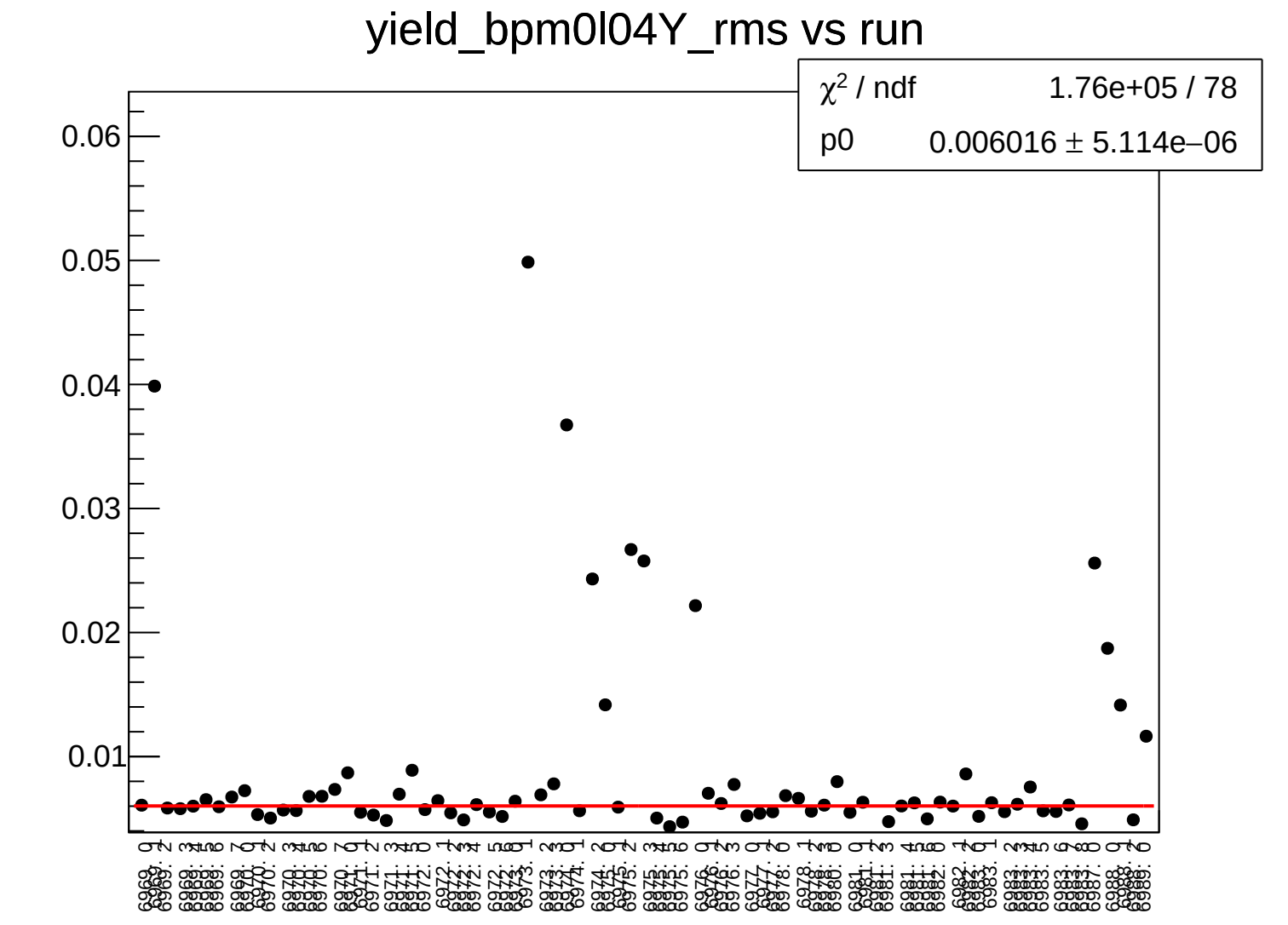

yield_bpm0l04X_mean vs run
χ² / ndf 1.751e+07 / 78
p0 −2.583 ± 9.921e−06
−2.48
−2.5
−2.52
−2.54
−2.56
−2.58
−2.6
−2.62
−2.64
pull
Entries 79
Mean 679
Std Dev 645.1
1500
1000
500
0
−500

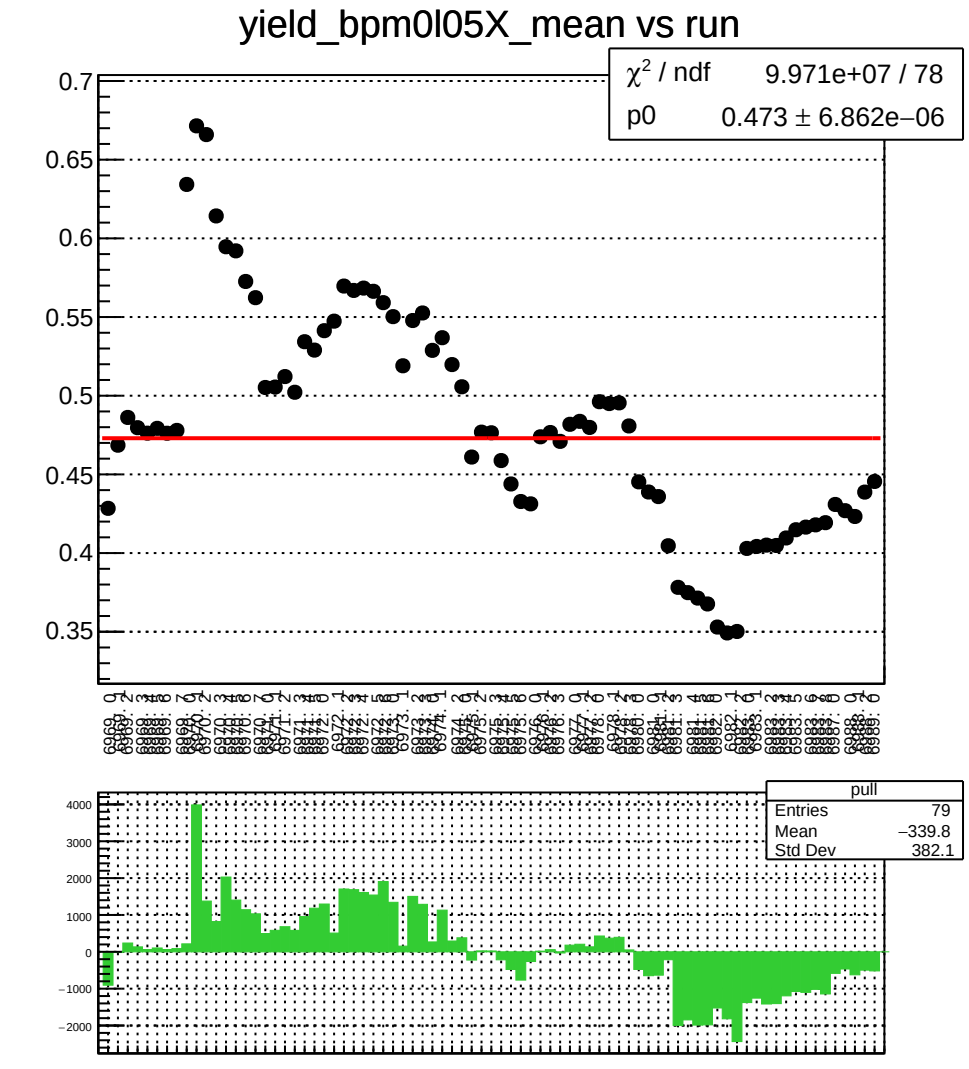

pull1D
Entries 79
Mean 7.146
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

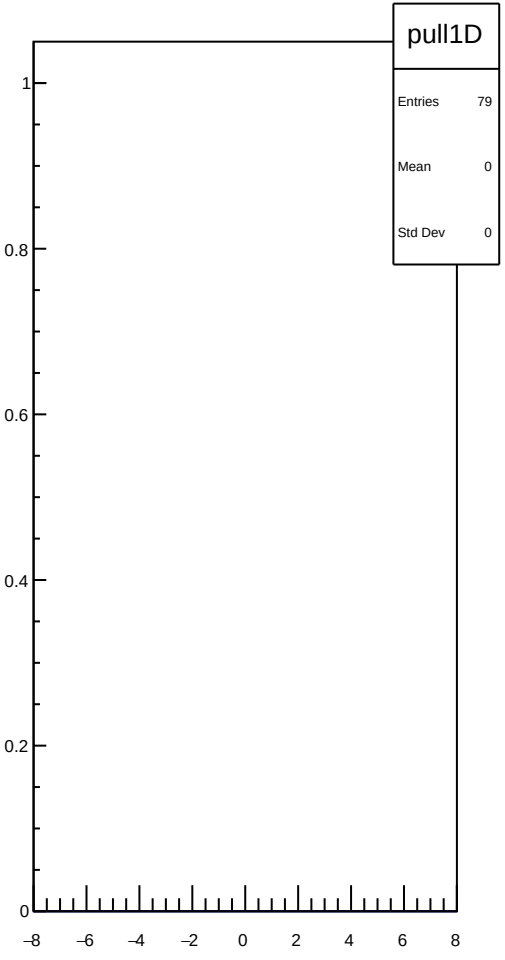

yield_bpm0l04X_rms vs run
χ² / ndf 1.363e+05 / 78
p0 0.008371 ± 7.015e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

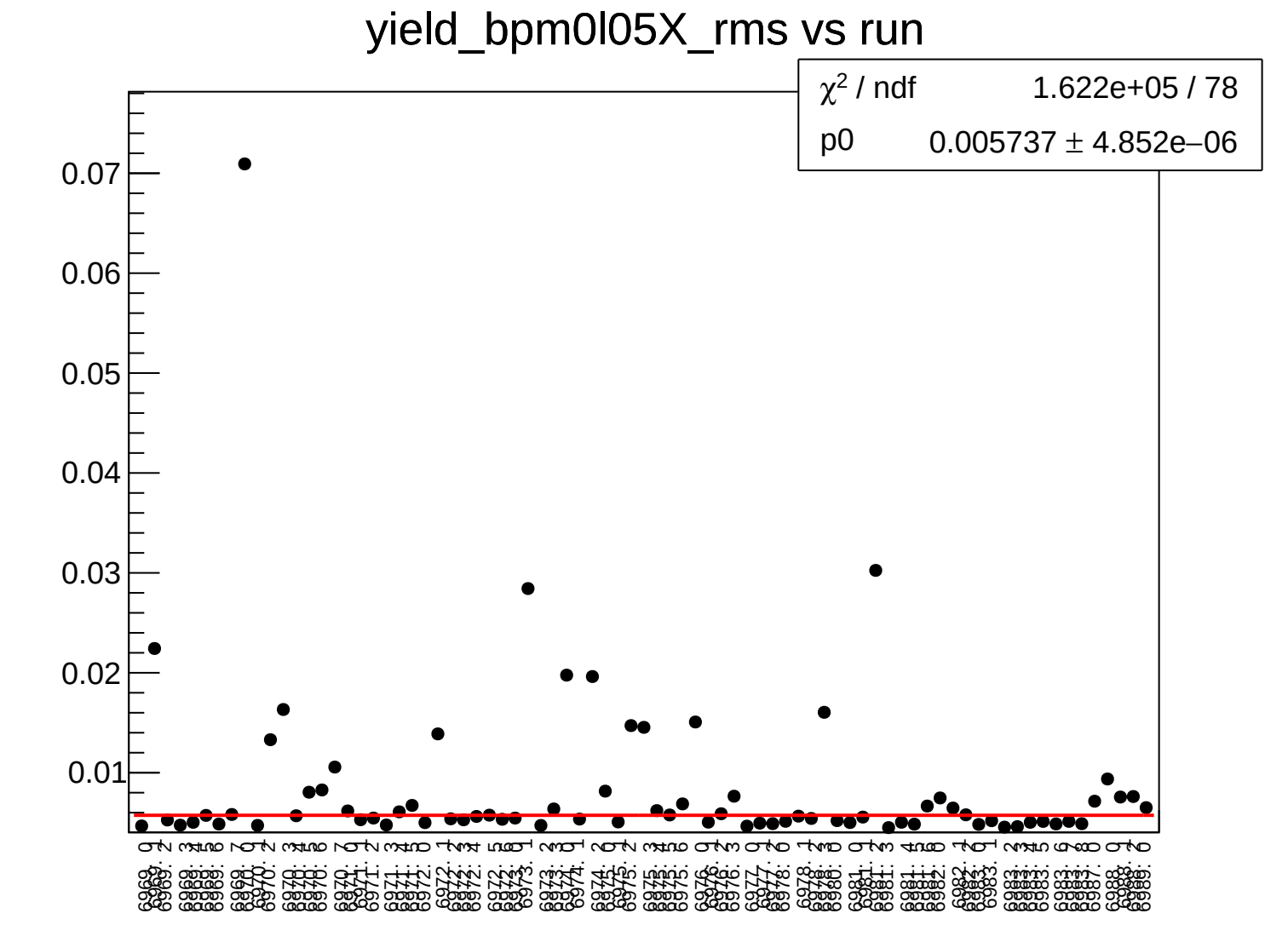

yield_bpm0l04Y_mean vs run
χ² / ndf 3.499e+07 / 78
p0 −0.3219 ± 7.232e−06
pull
Entries 79
Mean −6.844
Std Dev 32.19

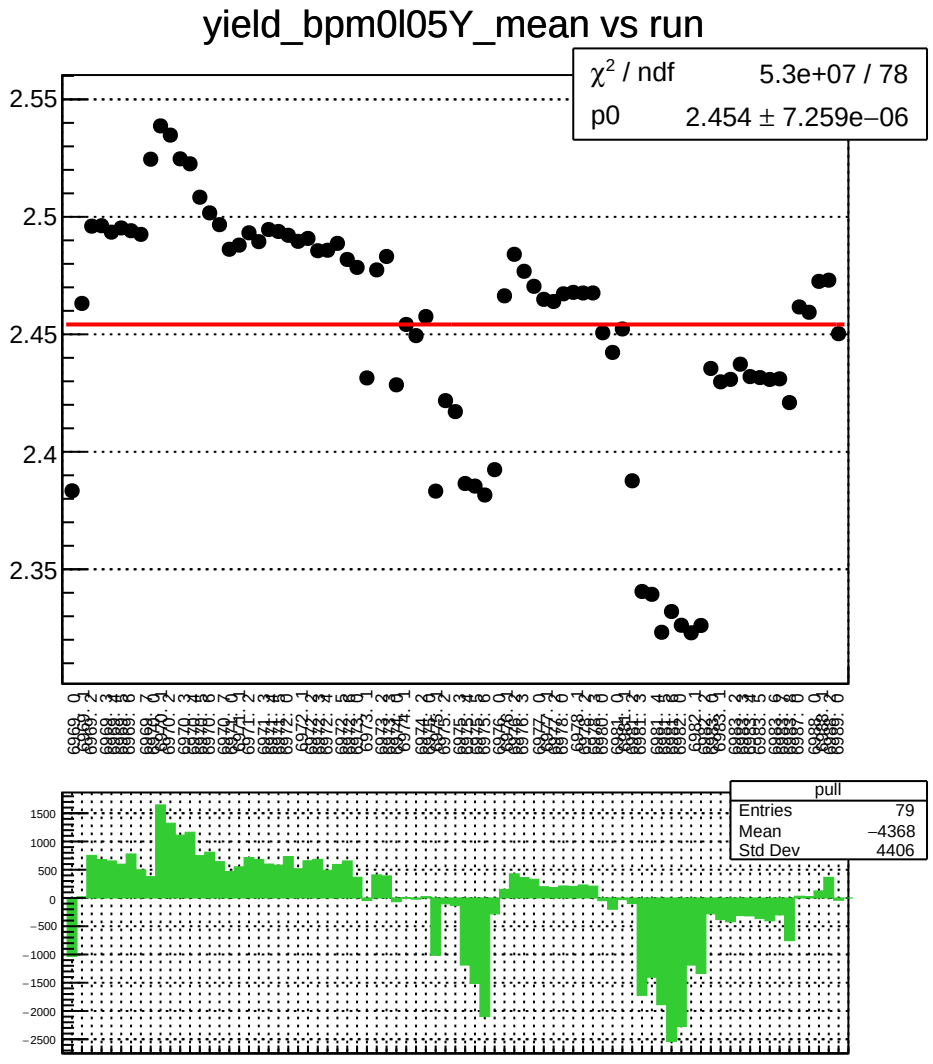

pull1D
Entries 79
Mean 0
Std Dev 0

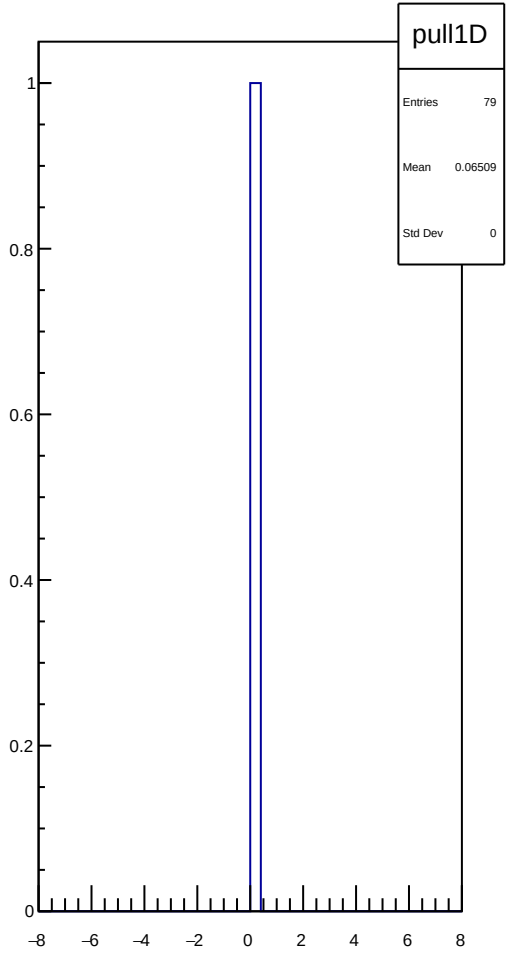

yield_bpm0l04Y_rms vs run
χ² / ndf 1.76e+05 / 78
p0 0.006016 ± 5.114e−06
0.06
0.05
0.04
0.03
0.02
0.01

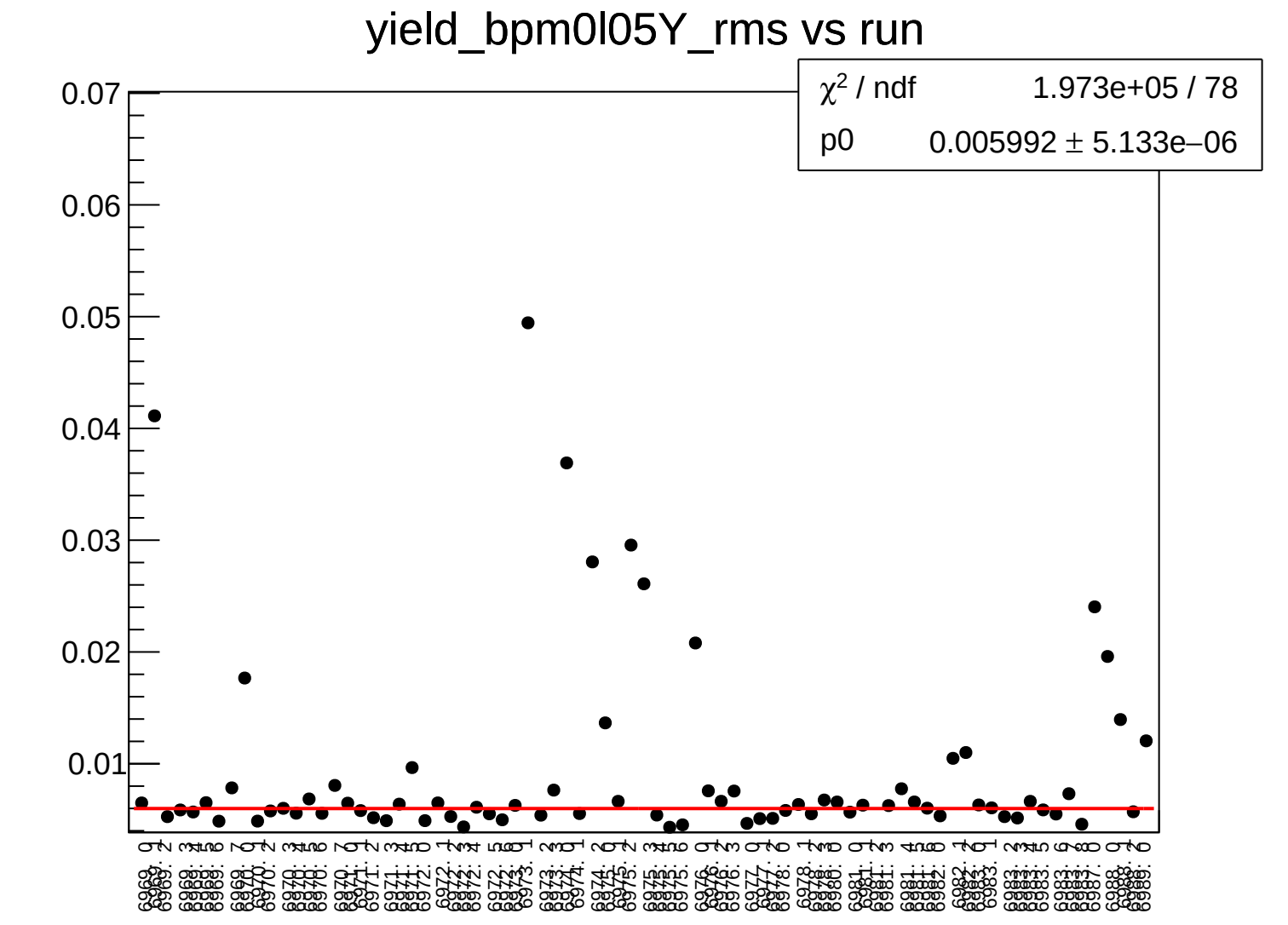

yield_bpm0l05X_mean vs run
χ² / ndf 9.971e+07 / 78
p0 0.473 ± 6.862e−06
pull
Entries 79
Mean −339.8
Std Dev 382.1

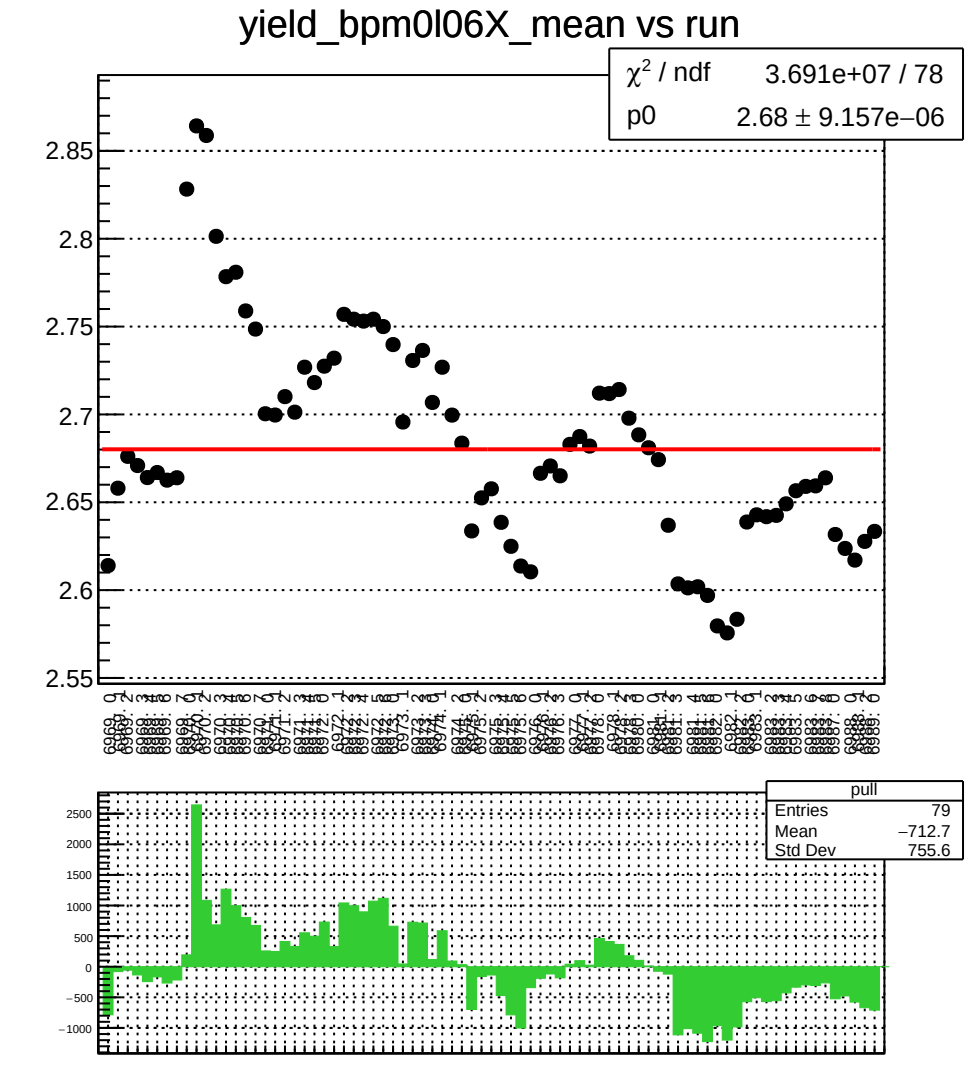

pull1D
Entries 79
Mean 0
Std Dev 0

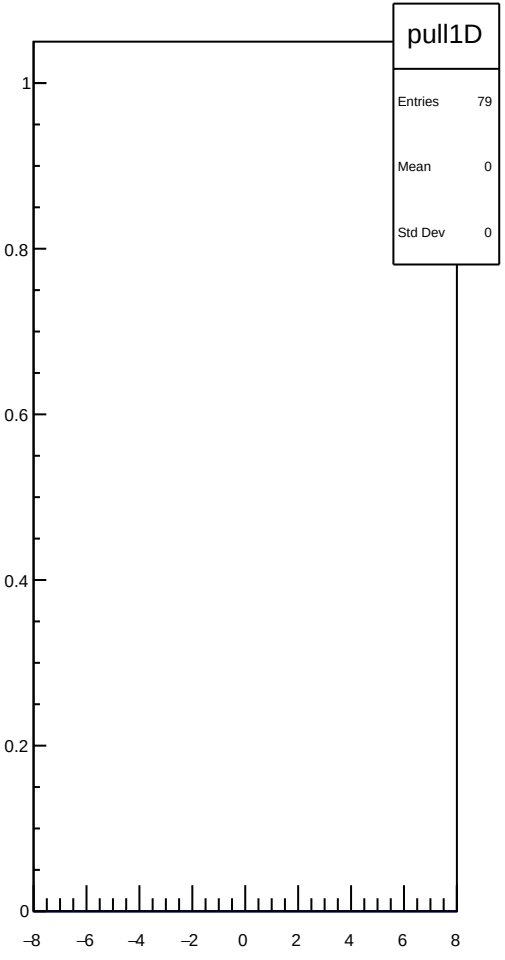

yield_bpm0l05X_rms vs run
χ² / ndf 1.622e+05 / 78
p0 0.005737 ± 4.852e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

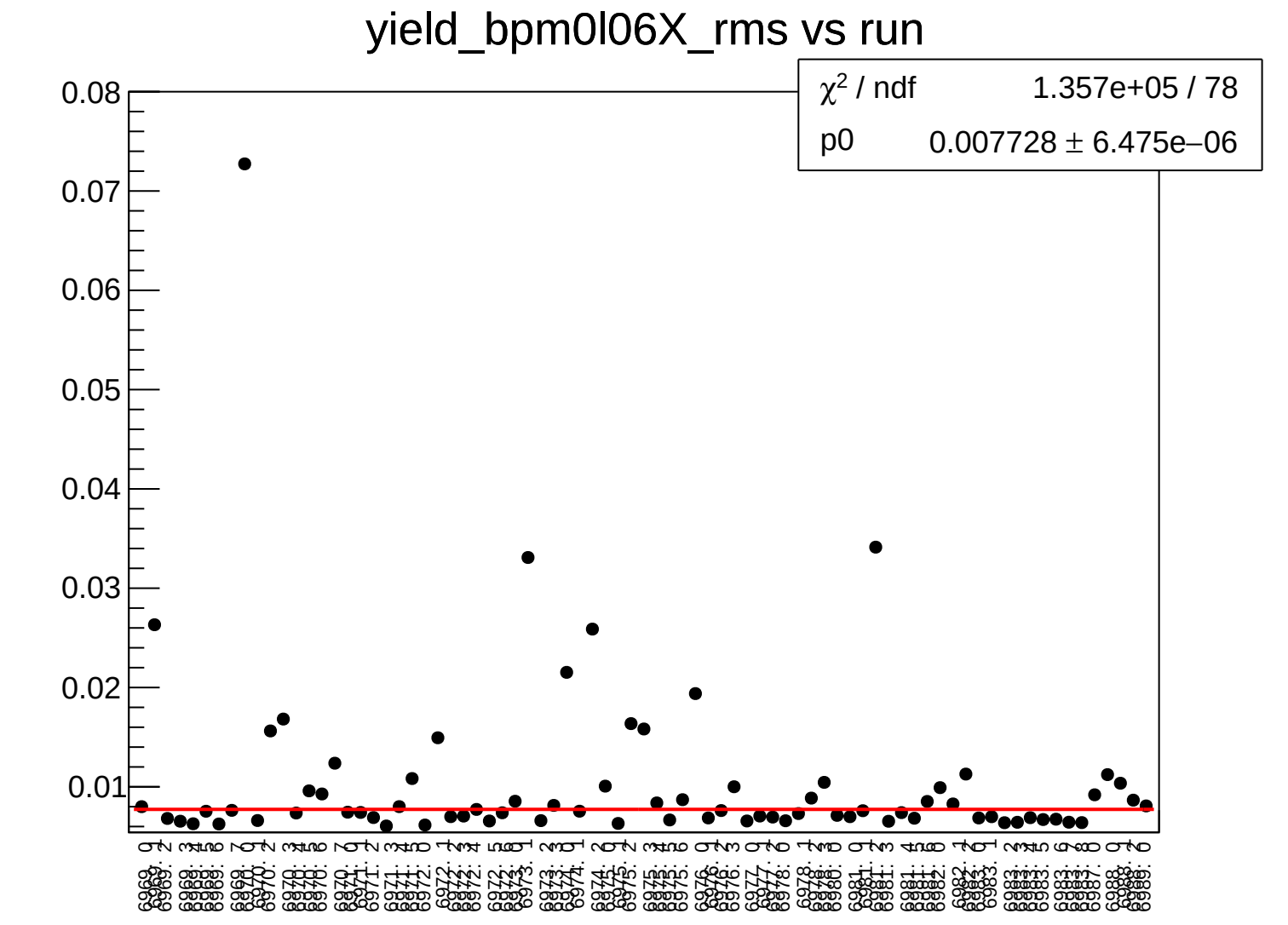

yield_bpm0l05Y_mean vs run
χ² / ndf 5.3e+07 / 78
p0 2.454 ± 7.259e−06
2.55
2.5
2.45
2.4
2.35
pull
Entries 79
Mean −4368
Std Dev 4406
1500
1000
500
0
−500
−1000
−1500
−2000
−2500

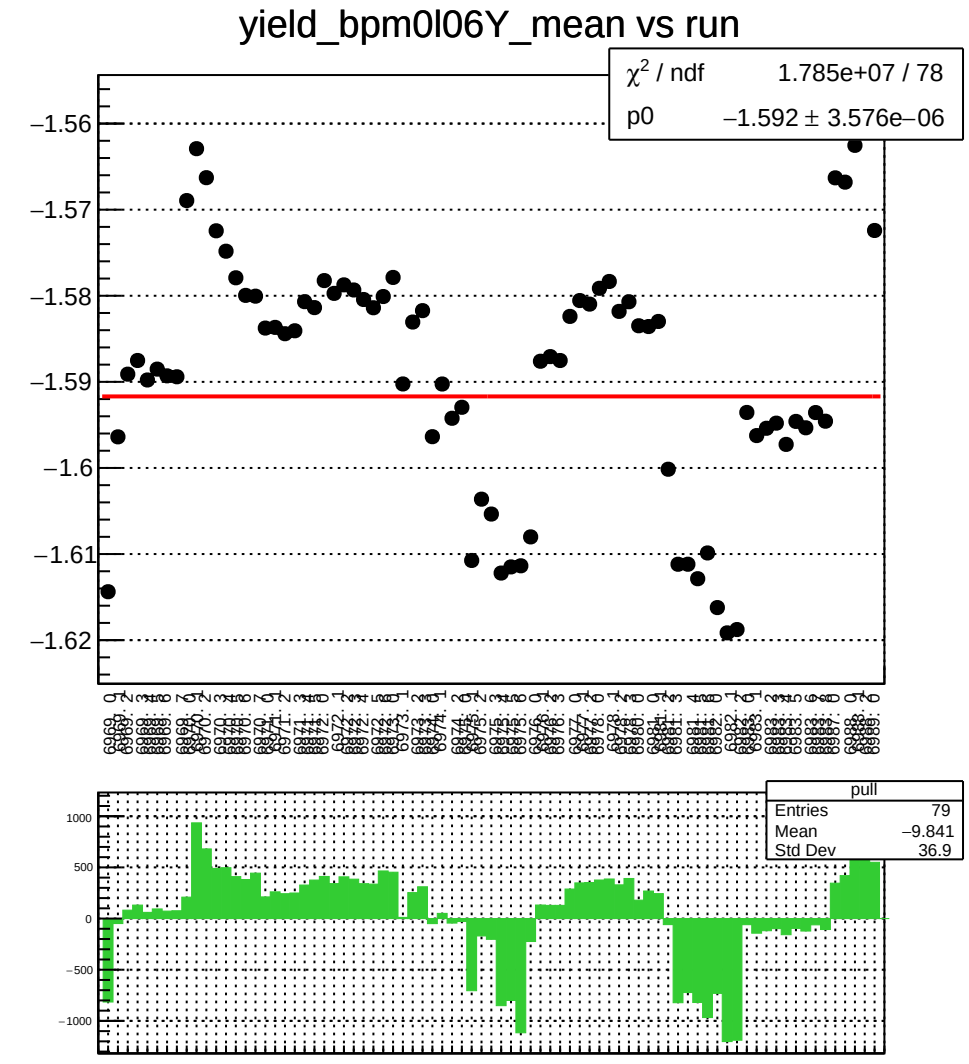

pull1D
Entries 79
Mean 0.06509
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

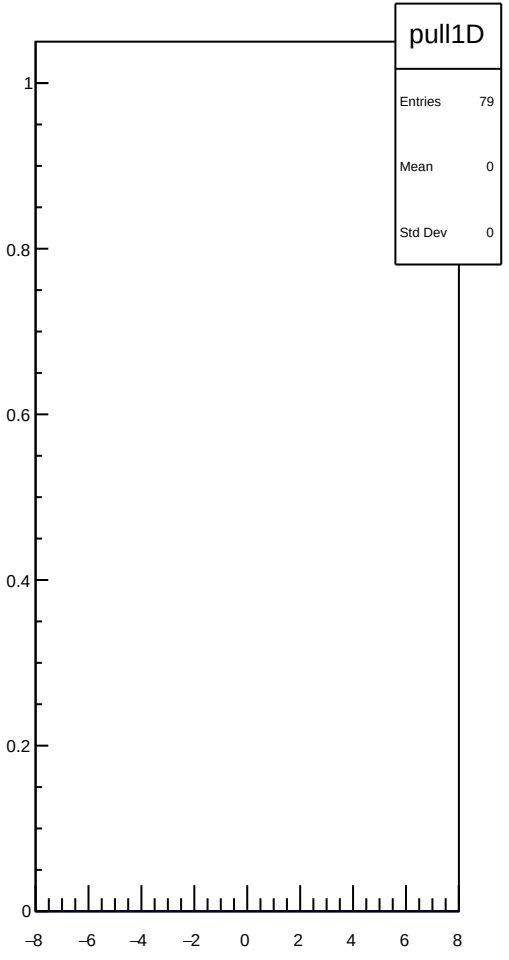

yield_bpm0l05Y_rms vs run
χ² / ndf 1.973e+05 / 78
p0 0.005992 ± 5.133e−06
0.07
0.06
0.05
0.04
0.03
0.02
0.01

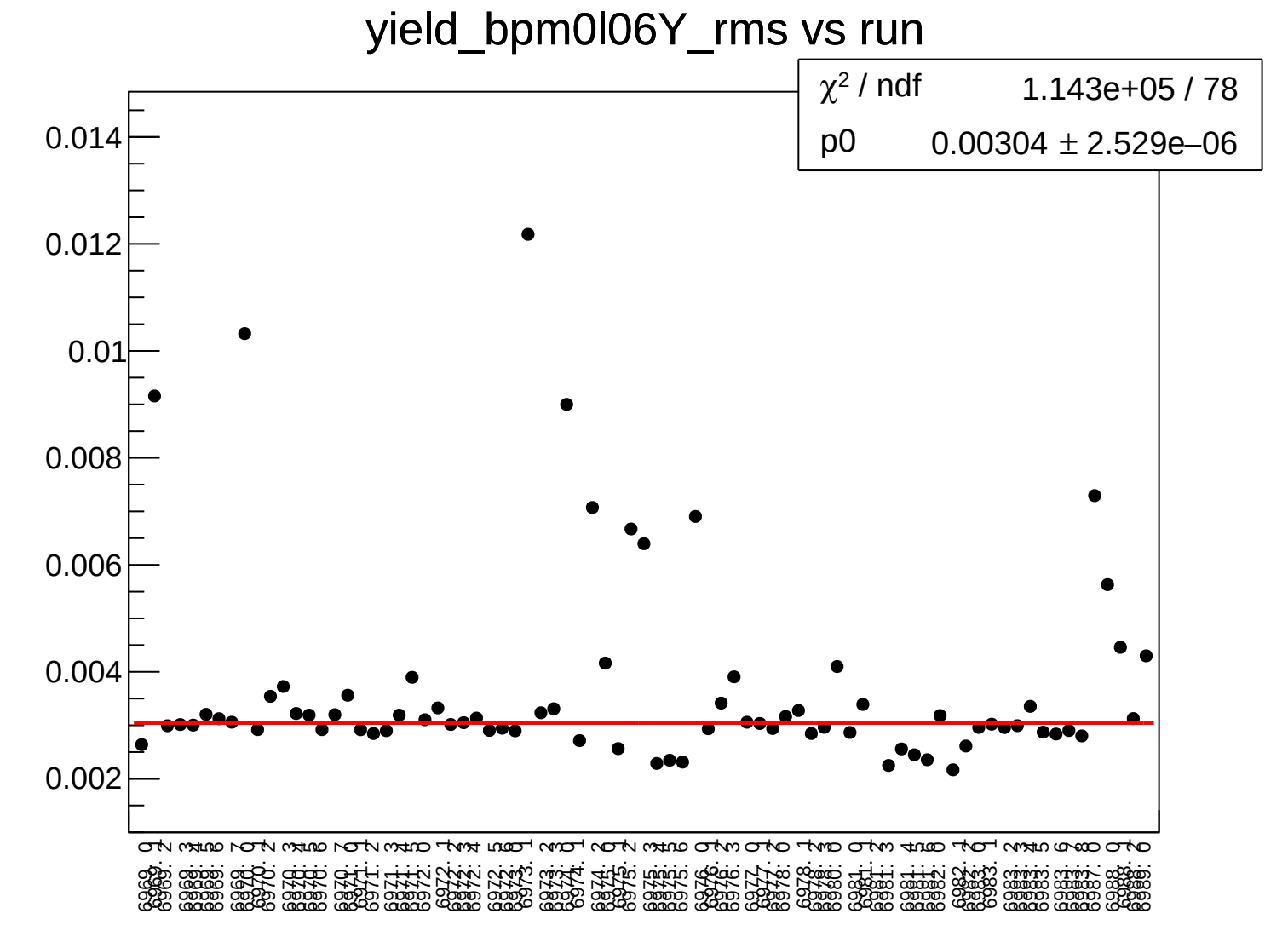

yield_bpm0l06X_mean vs run
χ² / ndf 3.691e+07 / 78
p0 2.68 ± 9.157e−06
2.85
2.8
2.75
2.7
2.65
2.6
2.55
pull
Entries 79
Mean −712.7
Std Dev 755.6
2500
2000
1500
1000
500
0
−500
−1000

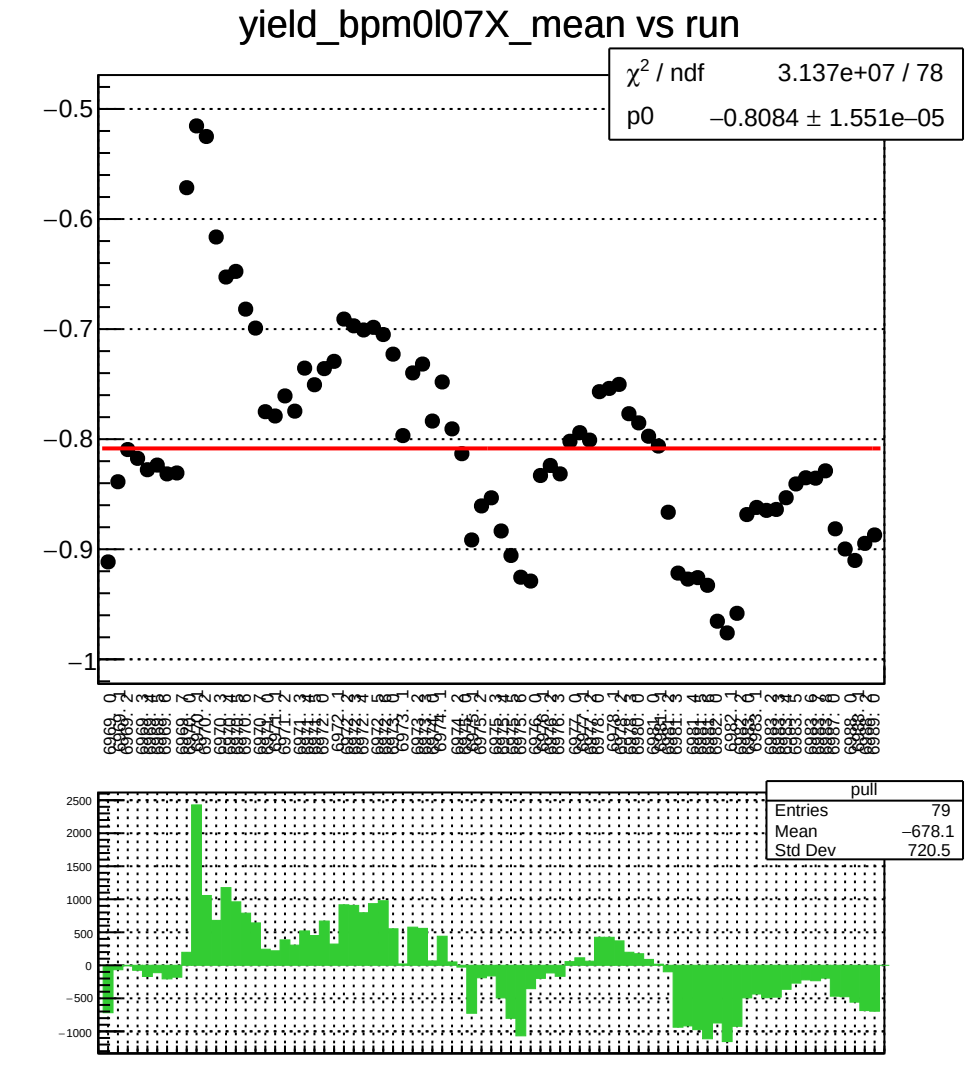

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

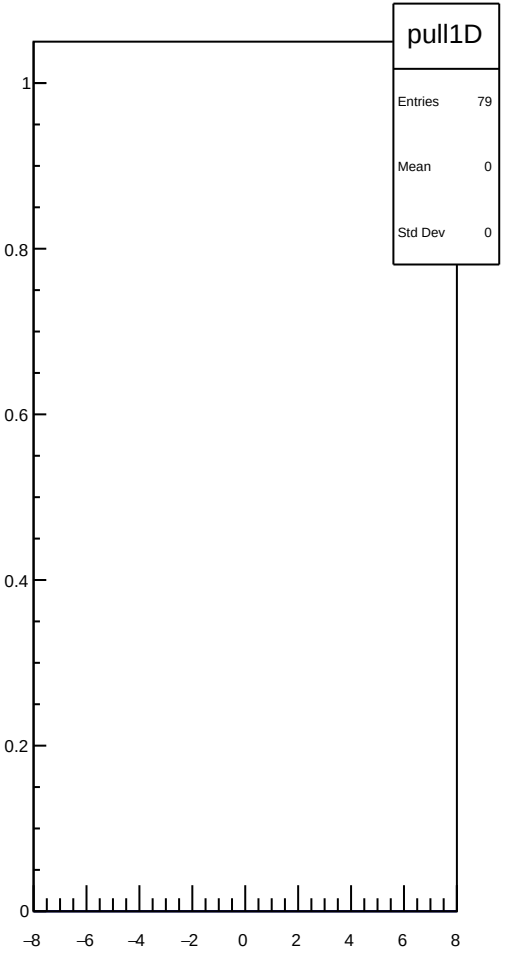

yield_bpm0l06X_rms vs run
χ² / ndf 1.357e+05 / 78
p0 0.007728 ± 6.475e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

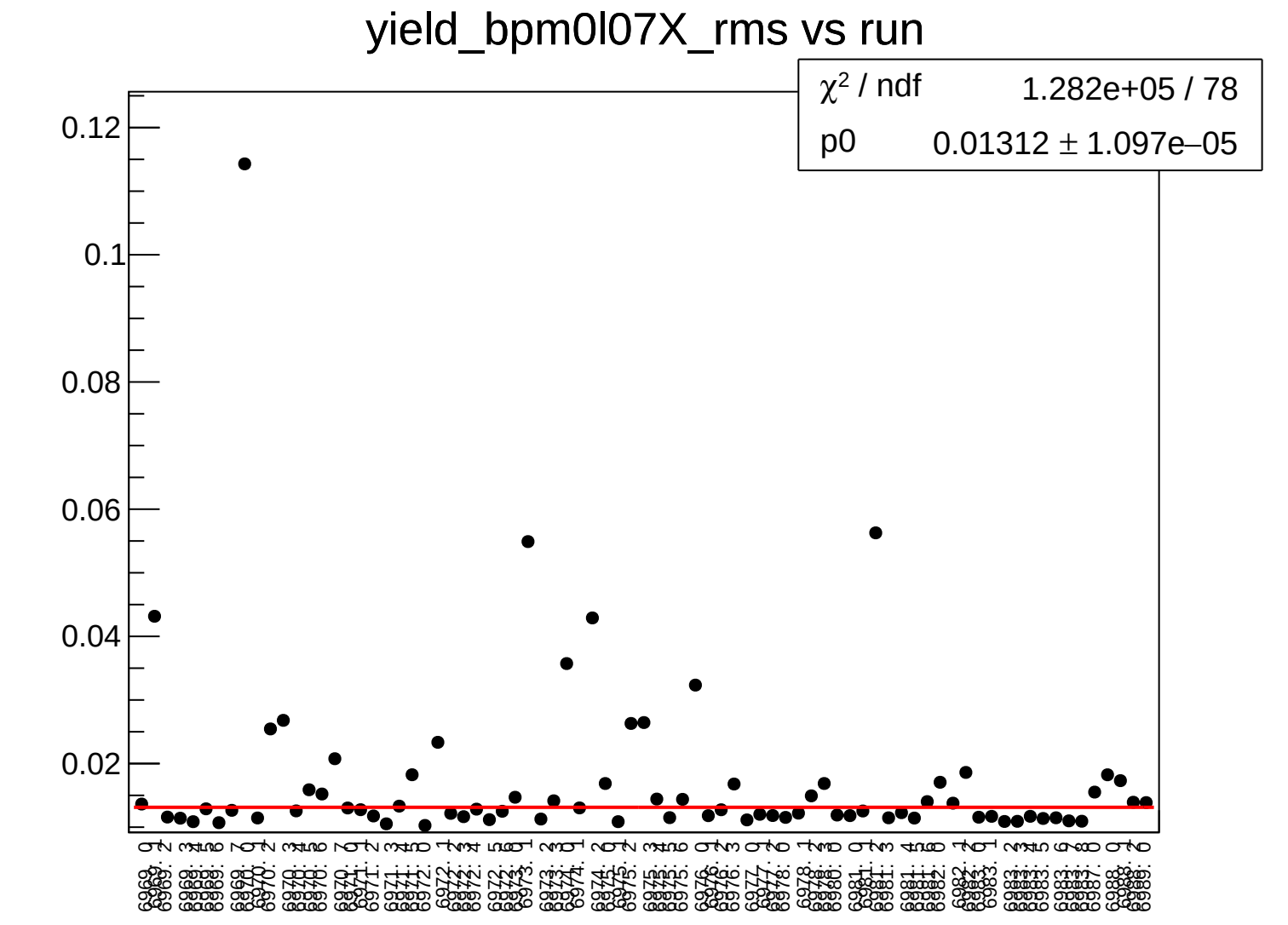

yield_bpm0l06Y_mean vs run
χ² / ndf 1.785e+07 / 78
p0 −1.592 ± 3.576e−06
−1.56
−1.57
−1.58
−1.59
−1.6
−1.61
−1.62
pull
Entries 79
Mean −9.841
Std Dev 36.9
1000
500
0
−500
−1000

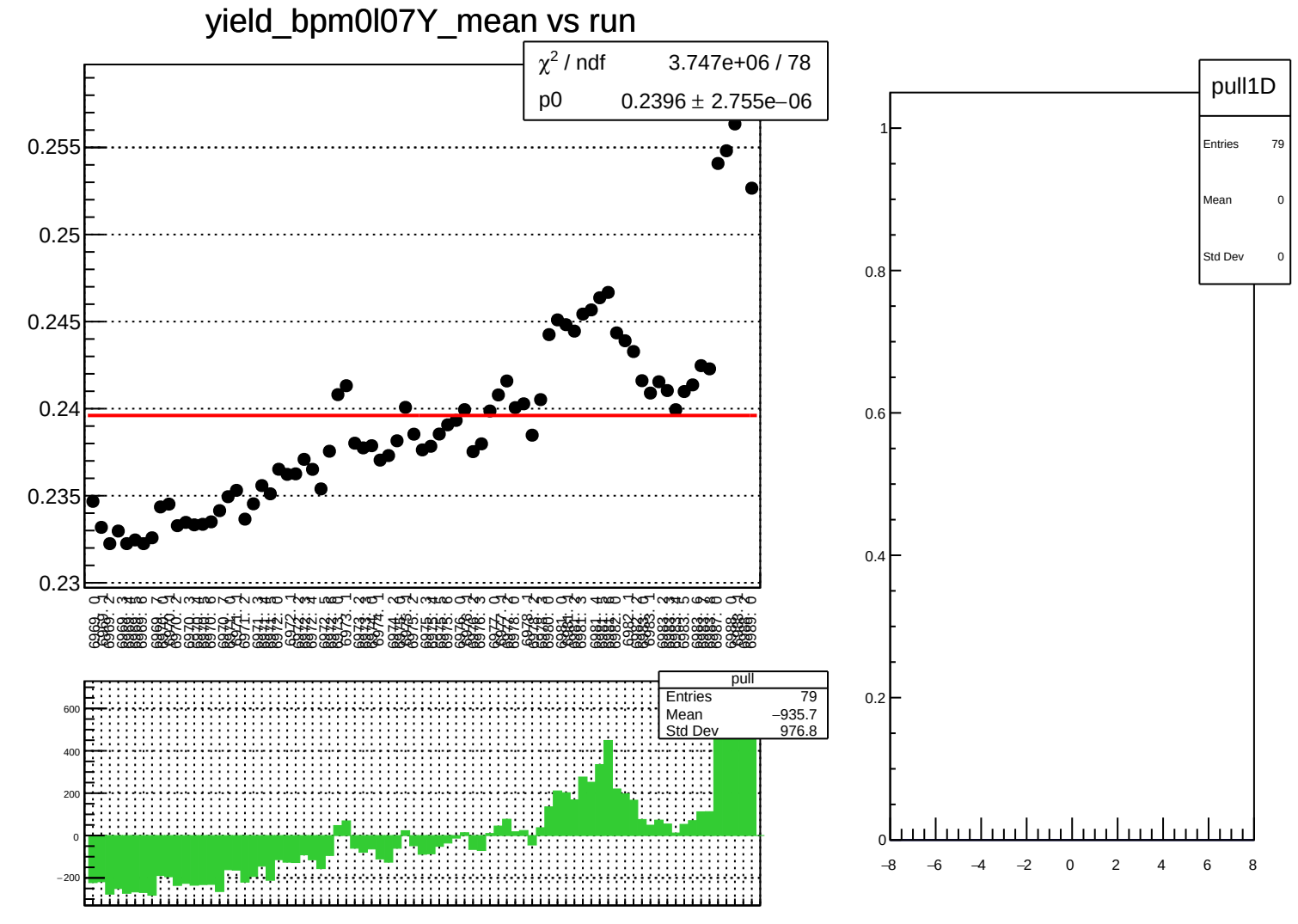

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

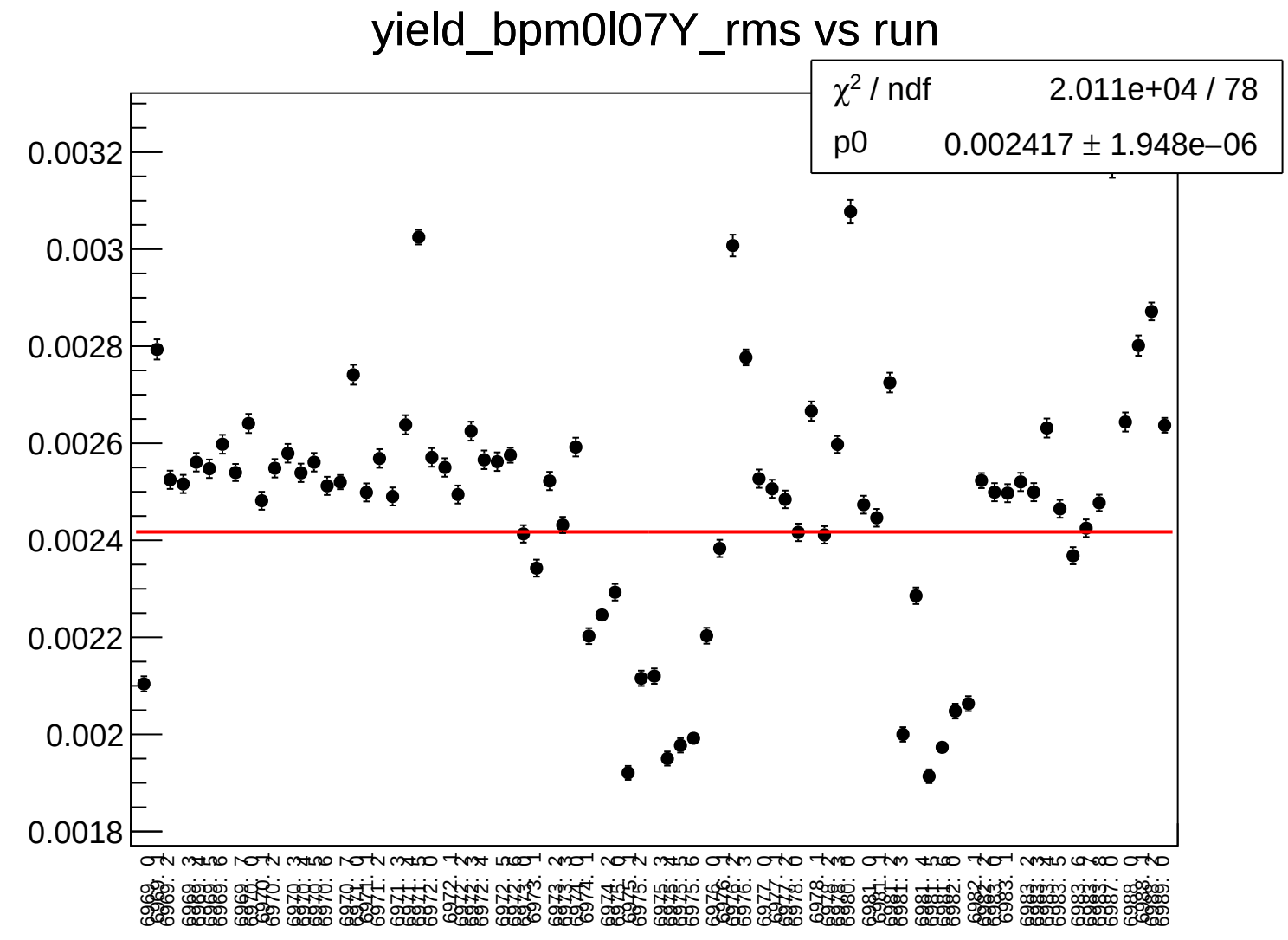

yield_bpm0l06Y_rms vs run
χ² / ndf 1.143e+05 / 78
p0 0.00304 ± 2.529e–06
0.014
0.012
0.01
0.008
0.006
0.004
0.002

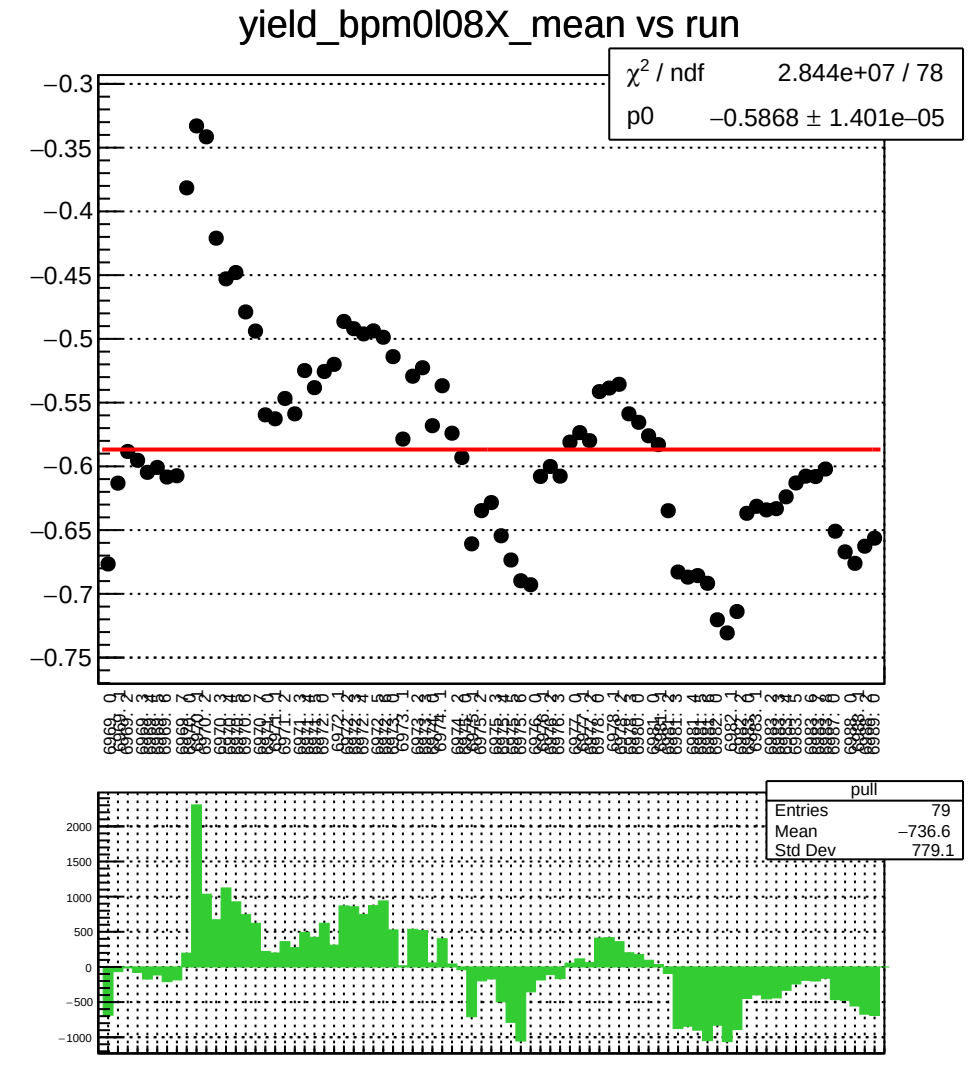

yield_bpm0l07X_mean vs run
χ² / ndf 3.137e+07 / 78
p0 −0.8084 ± 1.551e−05
pull
Entries 79
Mean −678.1
Std Dev 720.5

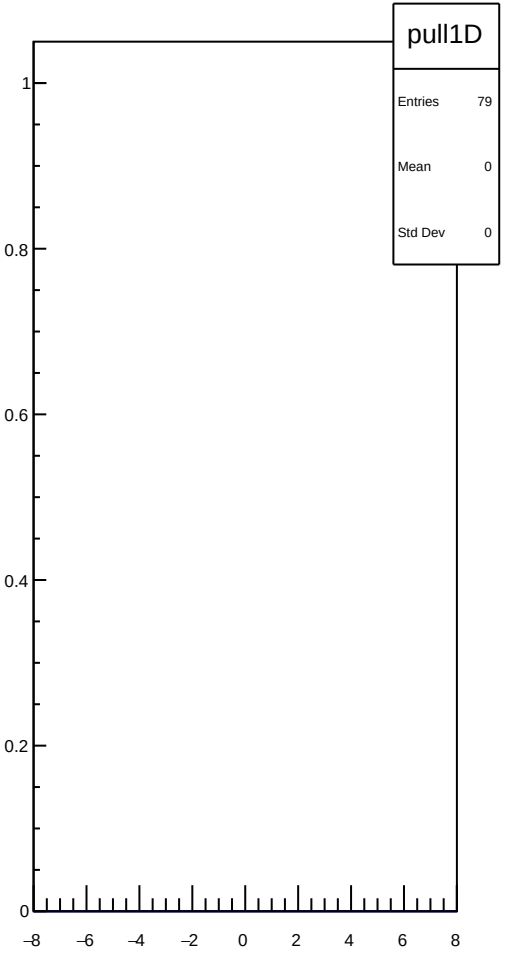

pull1D
Entries 79
Mean 0
Std Dev 0

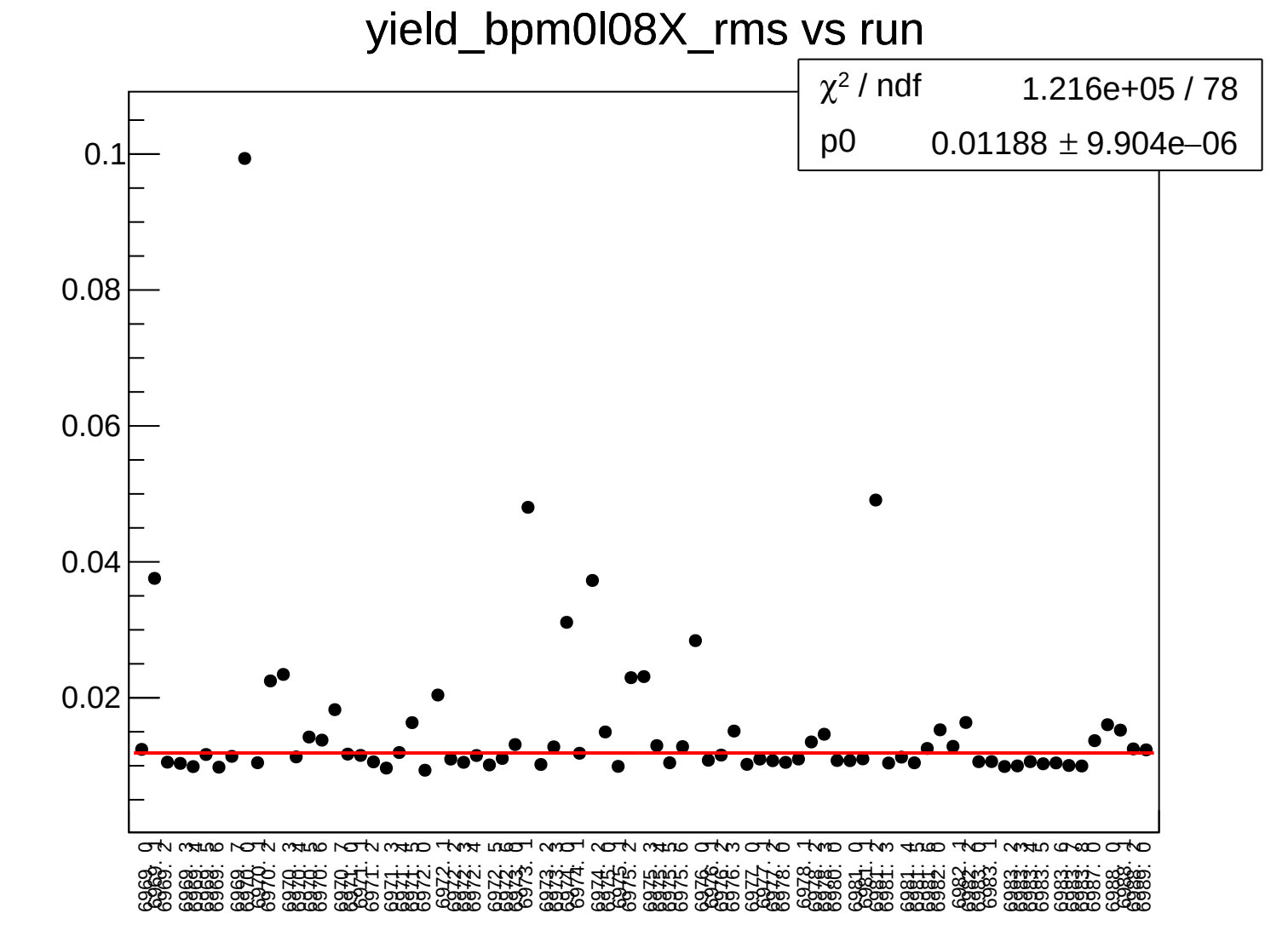

yield_bpm0l07X_rms vs run
χ² / ndf 1.282e+05 / 78
p0 0.01312 ± 1.097e–05
0.12
0.1
0.08
0.06
0.04
0.02

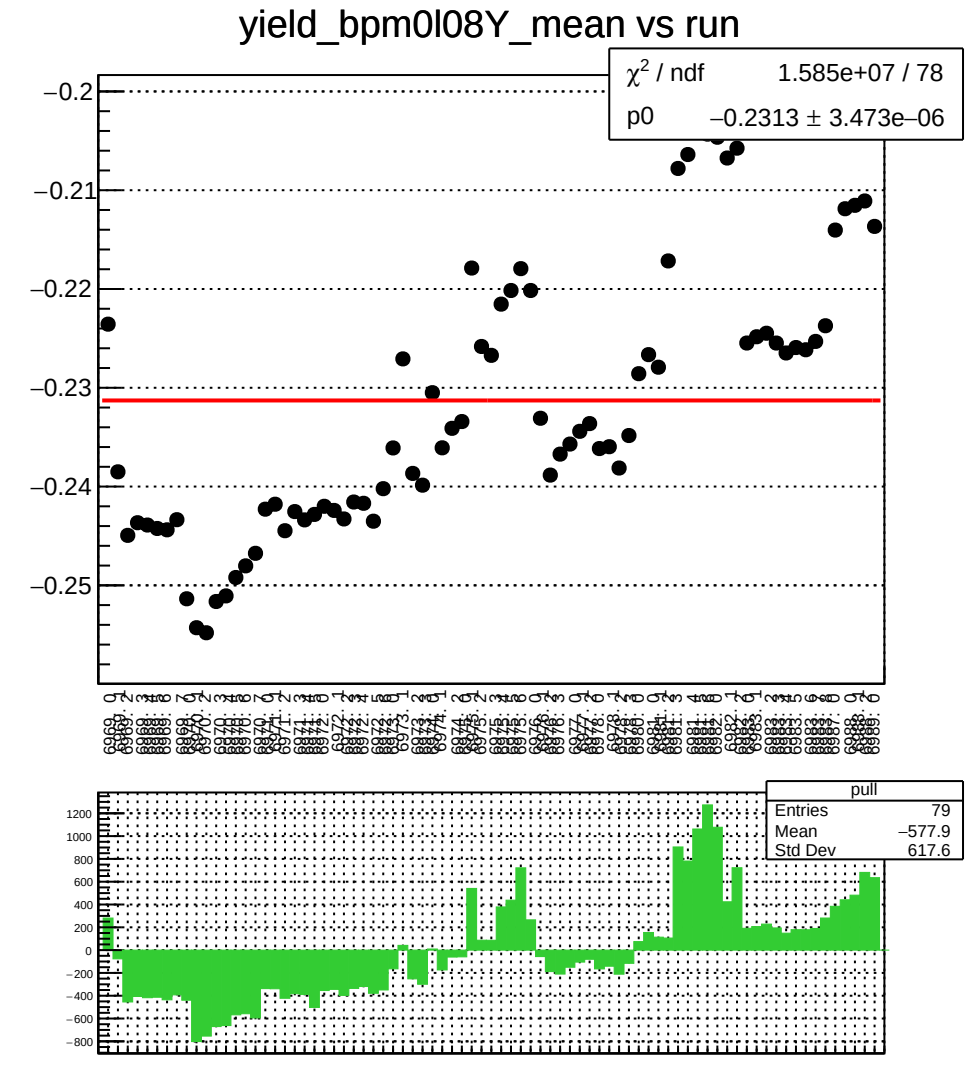

yield_bpm0l07Y_mean vs run
χ² / ndf 3.747e+06 / 78
p0 0.2396 ± 2.755e−06
0.255
0.25
0.245
0.24
0.235
0.23
pull
Entries 79
Mean −935.7
Std Dev 976.8
600
400
200
0
−200
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

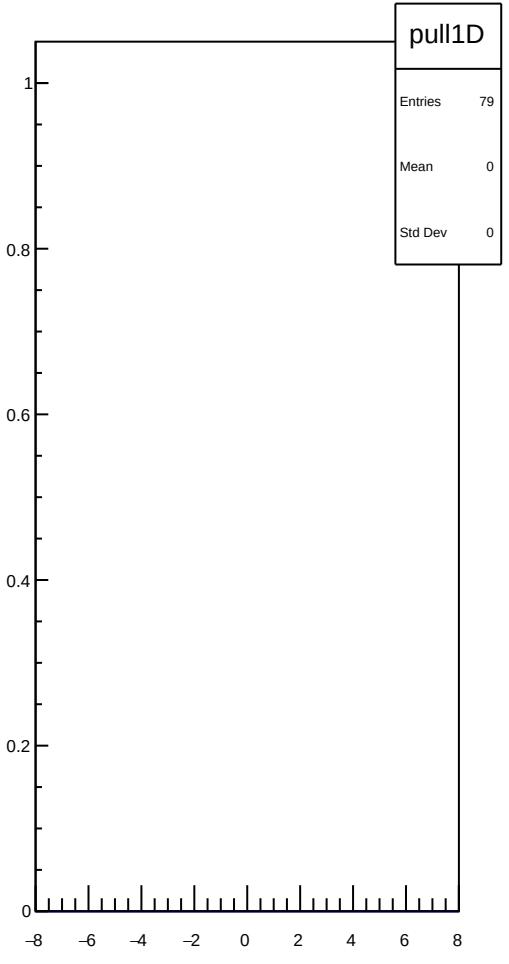

yield_bpm0l07Y_rms vs run
χ² / ndf 2.011e+04 / 78
p0 0.002417 ± 1.948e−06
0.0032
0.003
0.0028
0.0026
0.0024
0.0022
0.002
0.0018

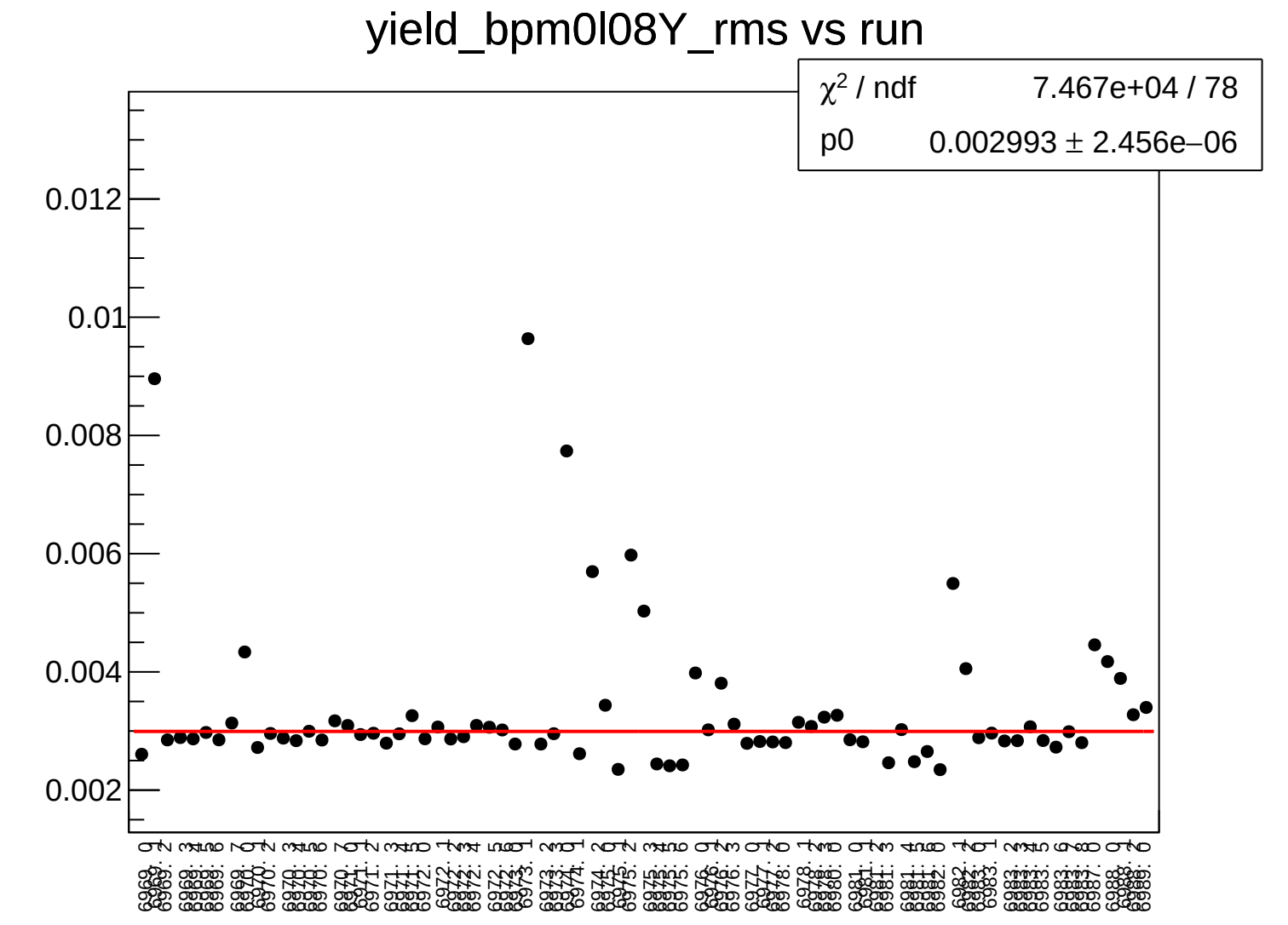

yield_bpm0l08X_mean vs run
χ² / ndf 2.844e+07 / 78
p0 −0.5868 ± 1.401e−05
pull
Entries 79
Mean −736.6
Std Dev 779.1

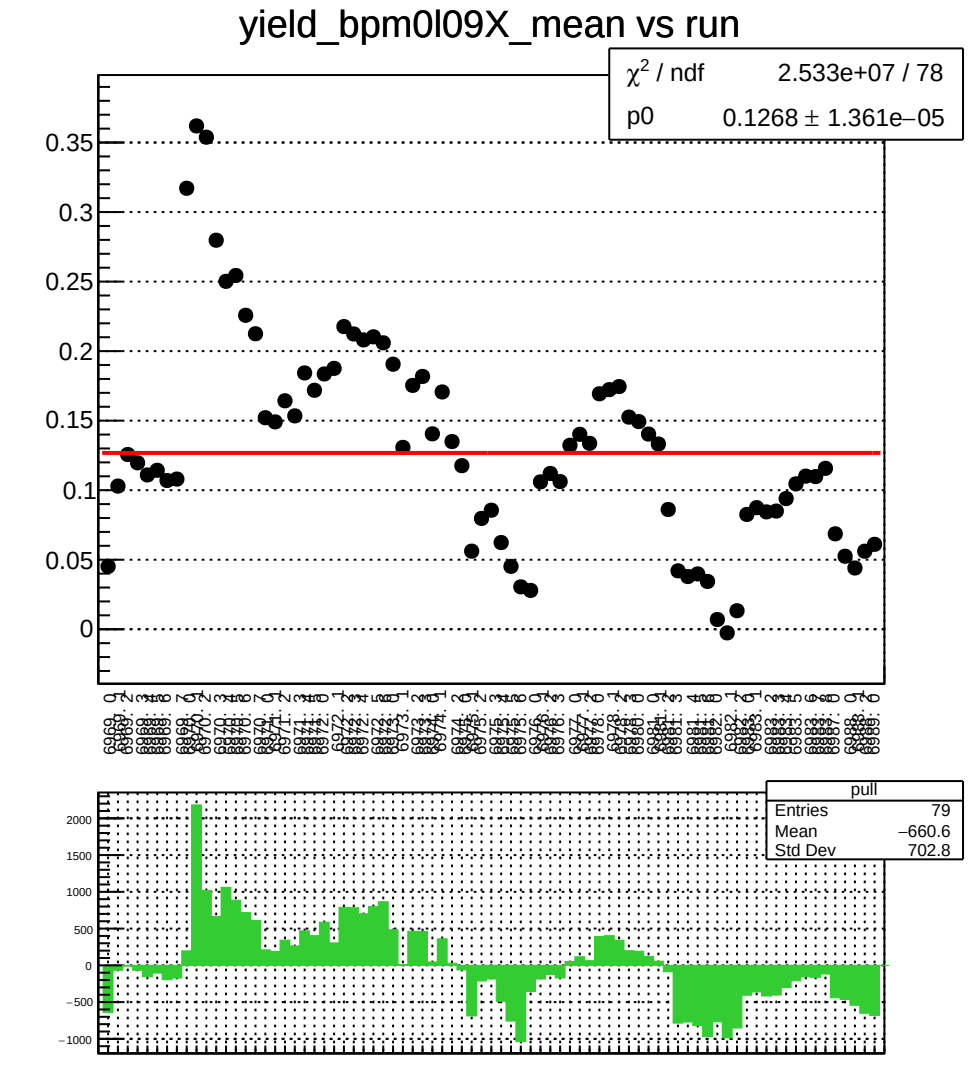

pull1D
Entries 79
Mean 0
Std Dev 0

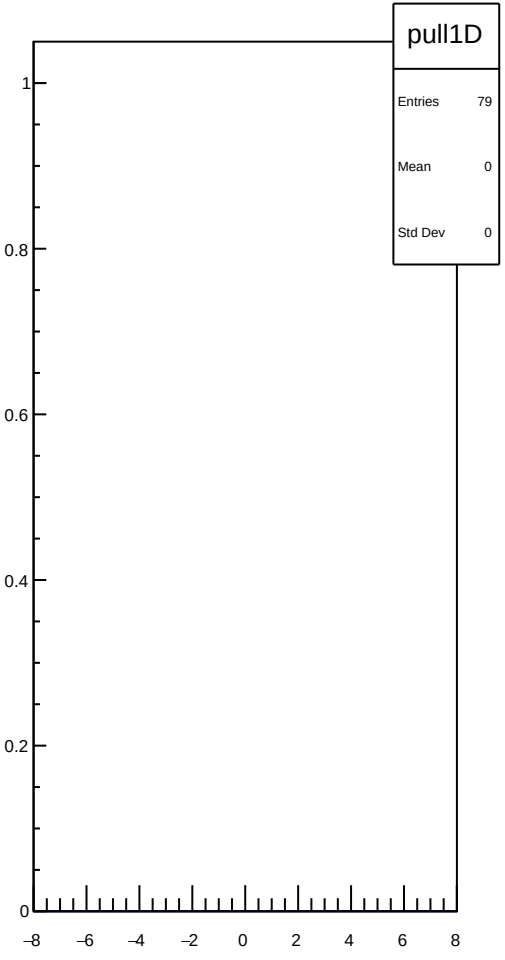

yield_bpm0l08X_rms vs run
χ² / ndf 1.216e+05 / 78
p0 0.01188 ± 9.904e–06
0.1
0.08
0.06
0.04
0.02

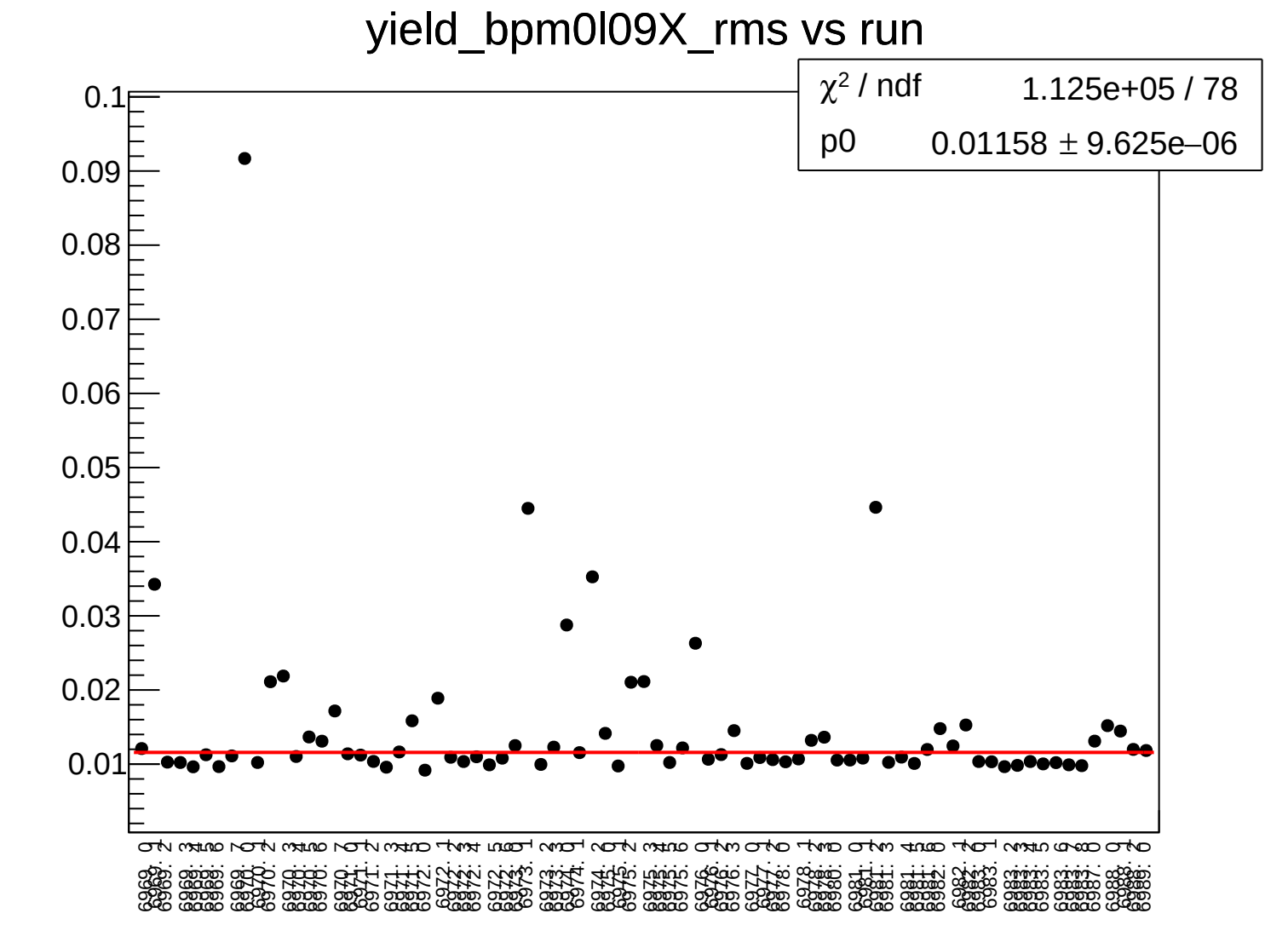

yield_bpm0l08Y_mean vs run
χ² / ndf 1.585e+07 / 78
p0 −0.2313 ± 3.473e−06
−0.2
−0.21
−0.22
−0.23
−0.24
−0.25
pull
Entries 79
Mean −577.9
Std Dev 617.6
1200
1000
800
600
400
200
0
−200
−400
−600
−800

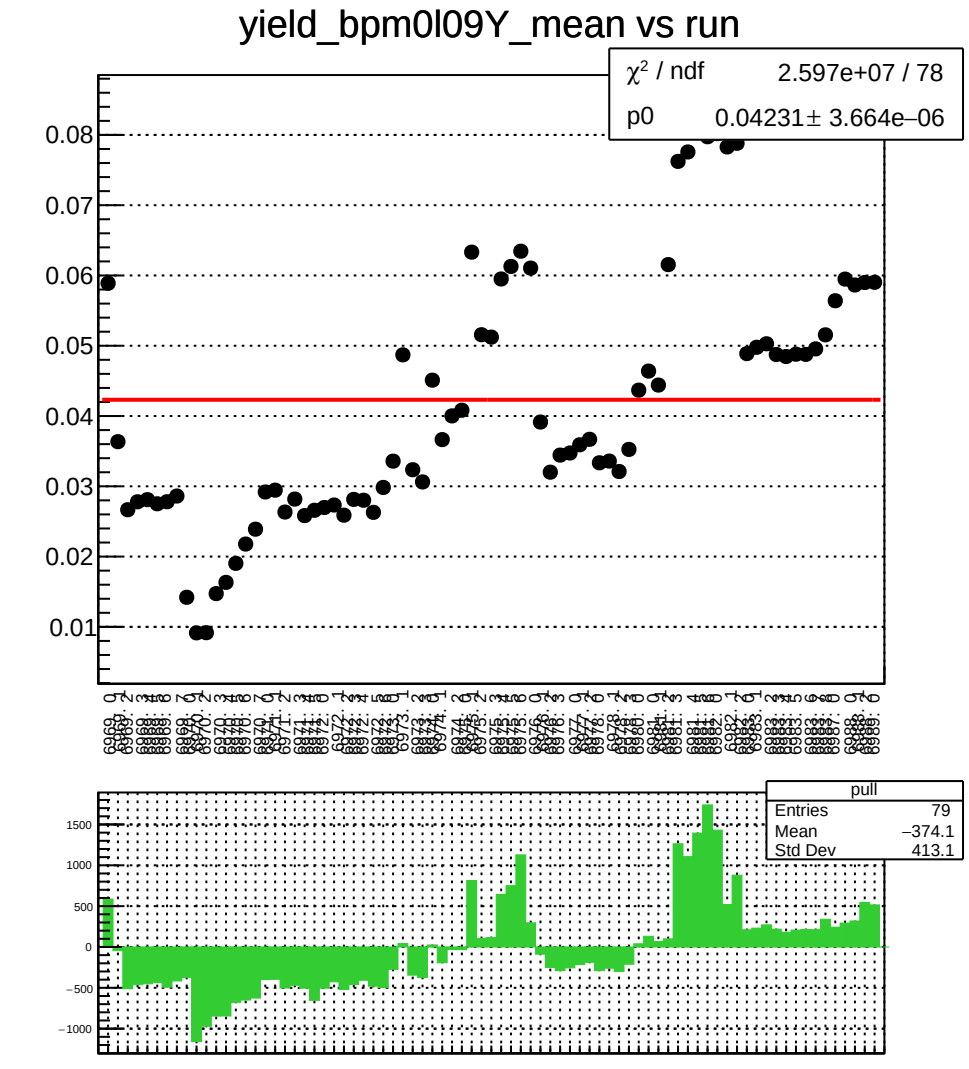

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

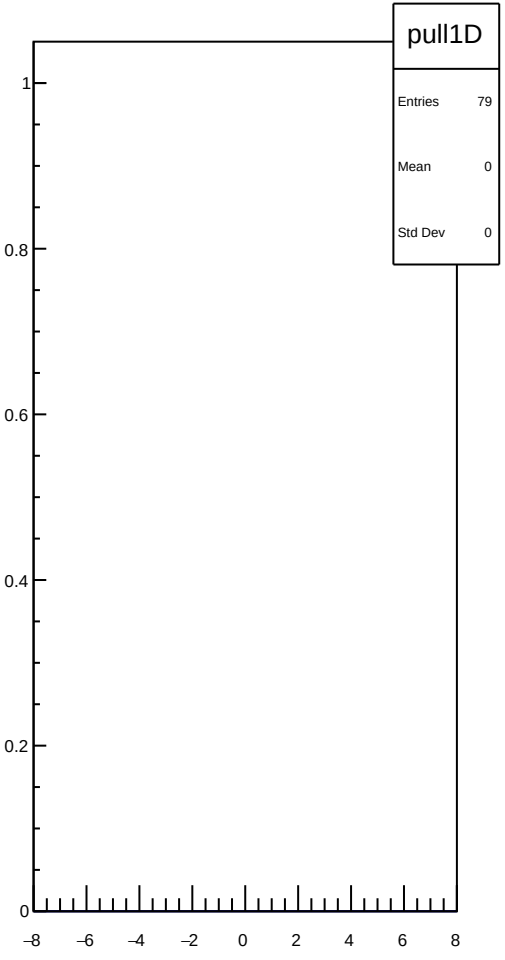

yield_bpm0l08Y_rms vs run
χ² / ndf 7.467e+04 / 78
p0 0.002993 ± 2.456e−06
0.012
0.01
0.008
0.006
0.004
0.002

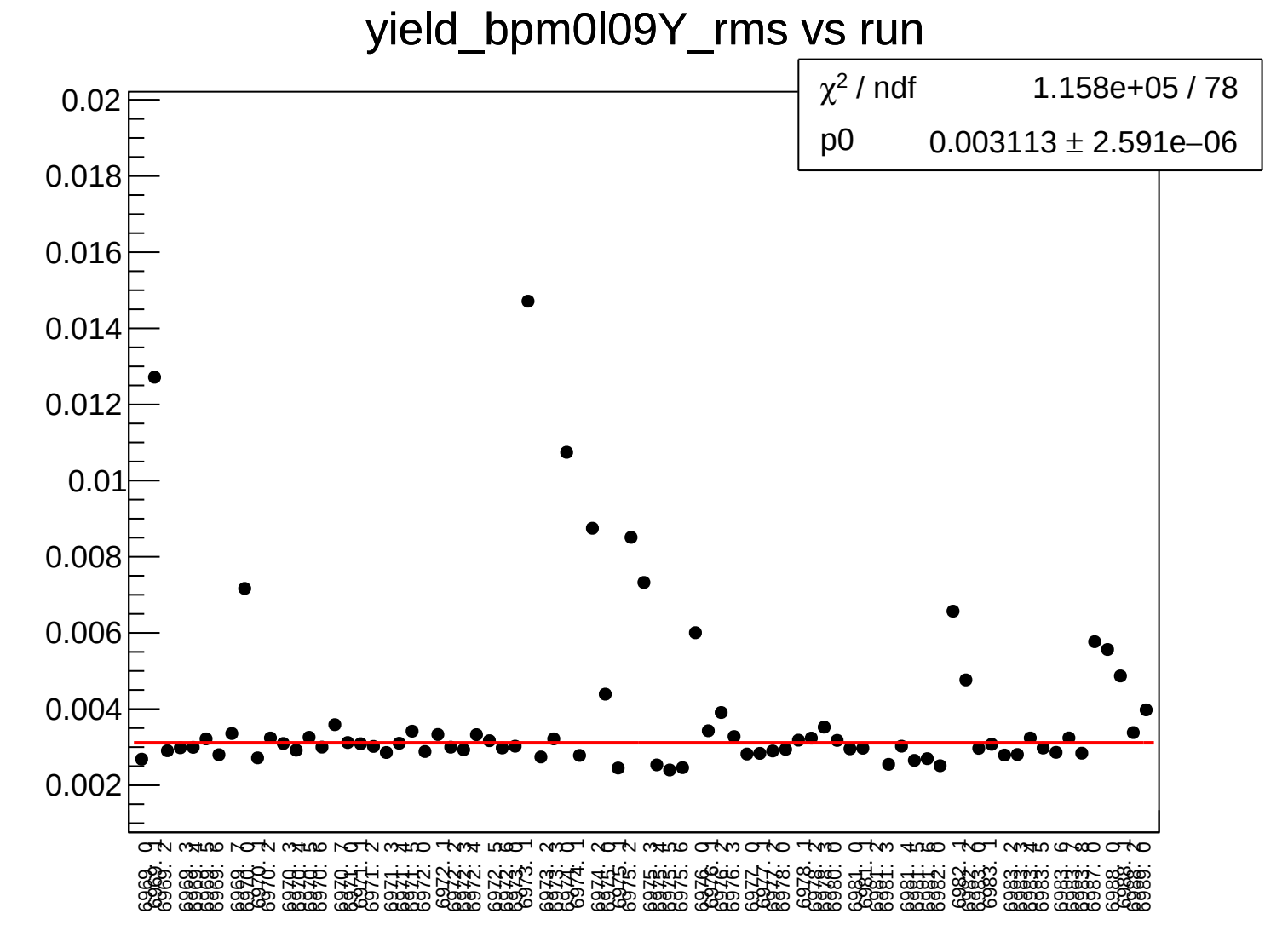

yield_bpm0l09X_mean vs run
χ² / ndf 2.533e+07 / 78
p0 0.1268 ± 1.361e−05
pull
Entries 79
Mean −660.6
Std Dev 702.8

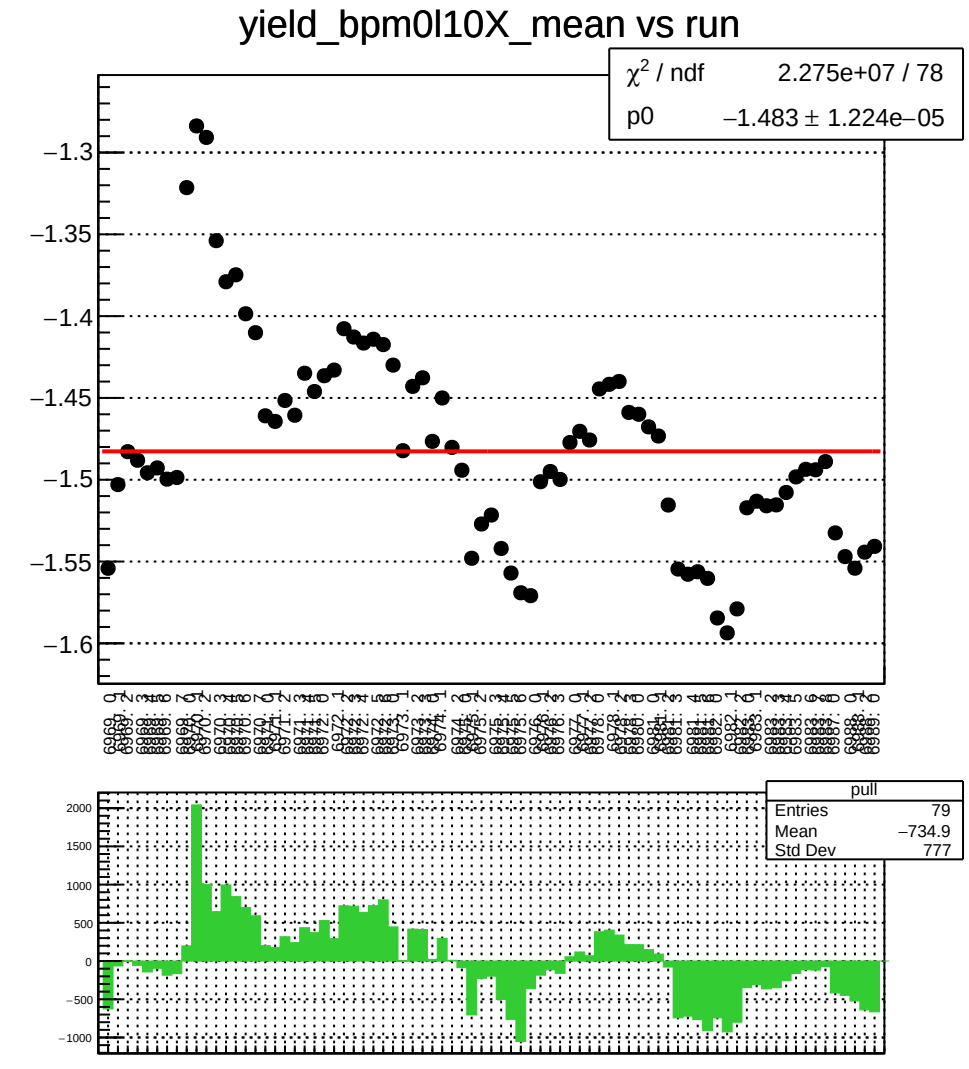

pull1D
Entries 79
Mean 0
Std Dev 0

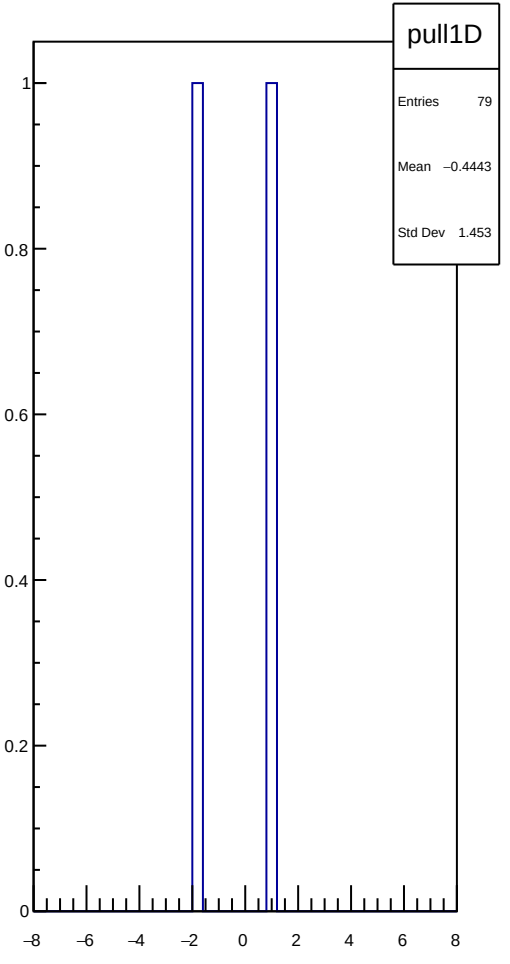

yield_bpm0l09X_rms vs run
χ² / ndf 1.125e+05 / 78
p0 0.01158 ± 9.625e−06
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

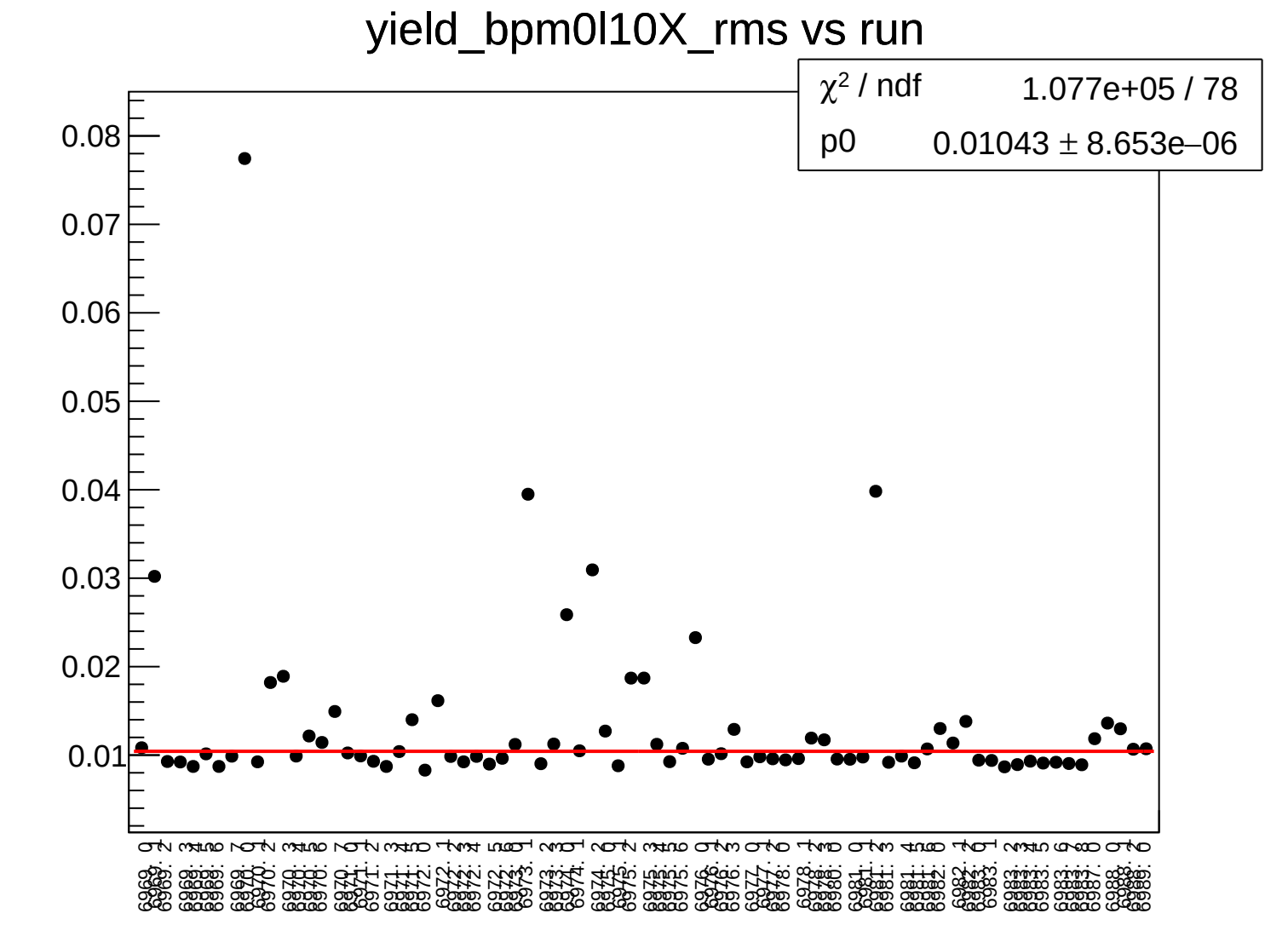

yield_bpm0l09Y_mean vs run
χ² / ndf 2.597e+07 / 78
p0 0.04231± 3.664e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 79
Mean −374.1
Std Dev 413.1
1500
1000
500
0
−500
−1000

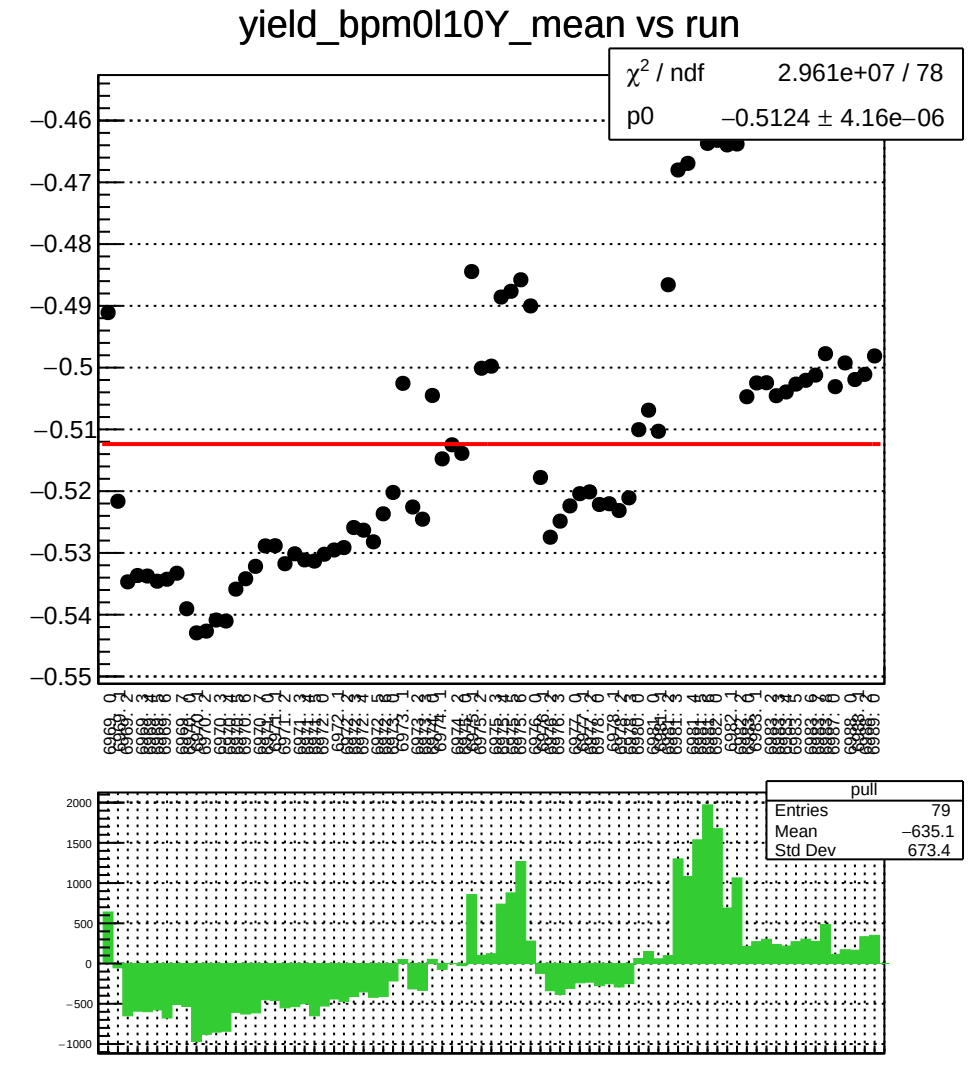

pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

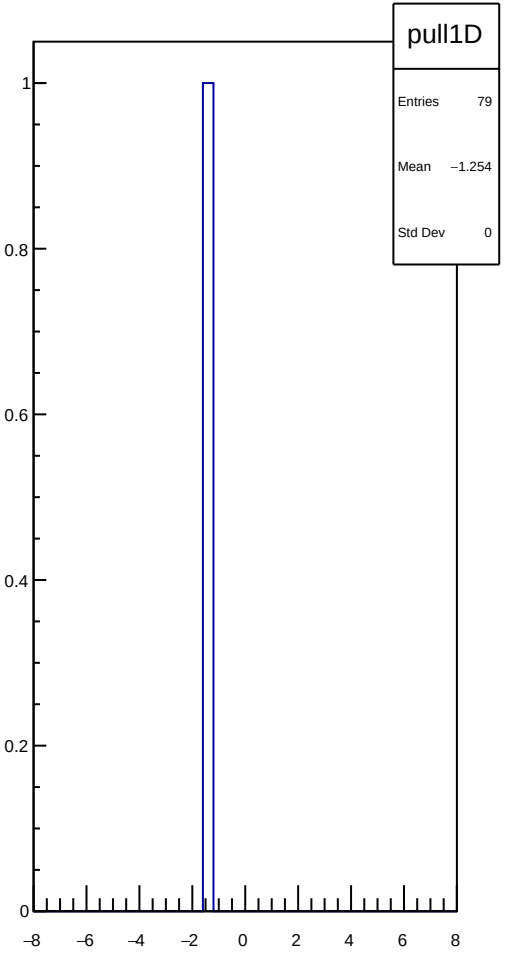

yield_bpm0l09Y_rms vs run
χ² / ndf 1.158e+05 / 78
p0 0.003113 ± 2.591e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

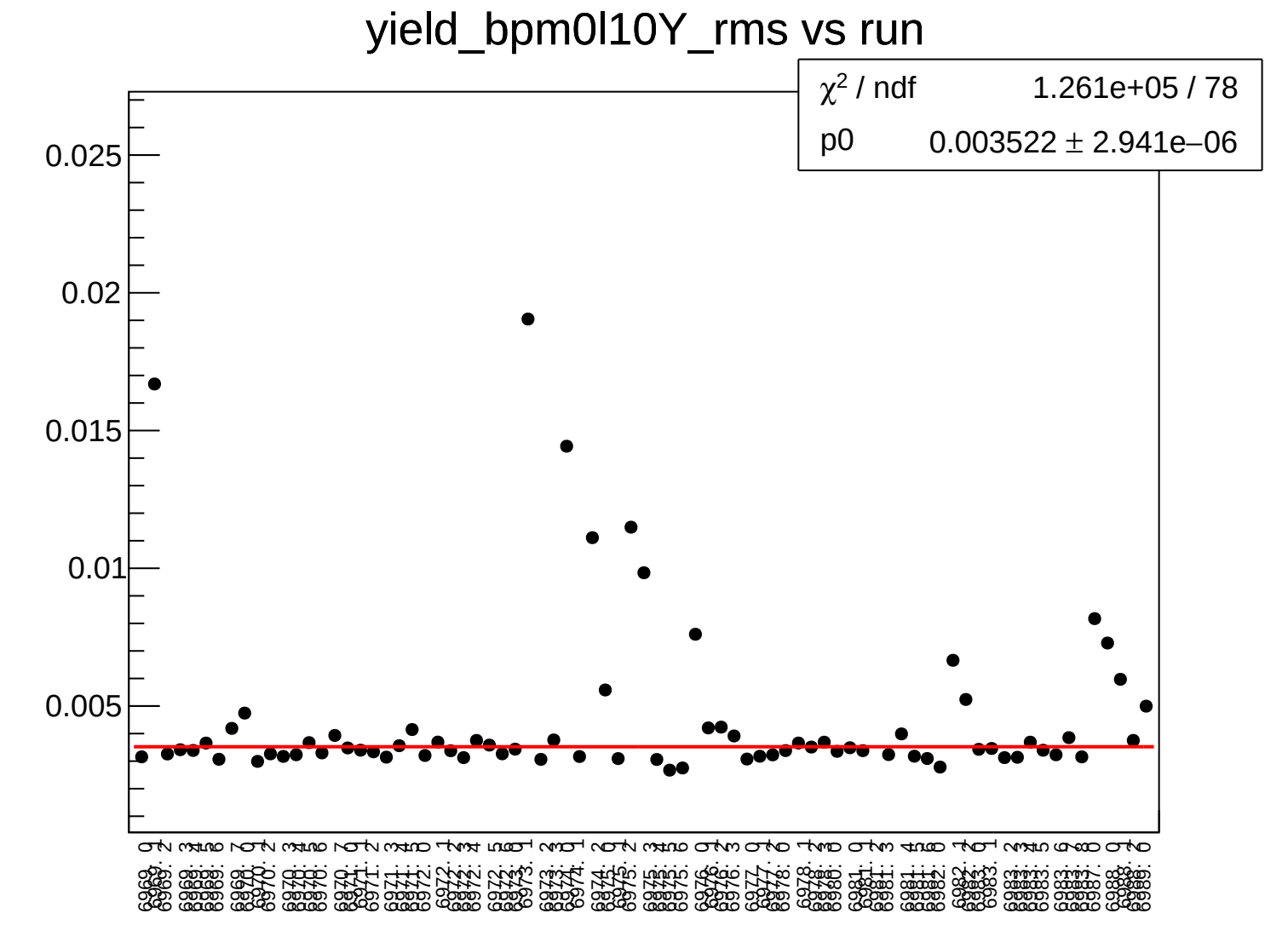

yield_bpm0l10X_mean vs run
χ² / ndf 2.275e+07 / 78
p0 −1.483 ± 1.224e−05
−1.3
−1.35
−1.4
−1.45
−1.5
−1.55
−1.6
pull
Entries 79
Mean −734.9
Std Dev 777
2000
1500
1000
500
0
−500
−1000

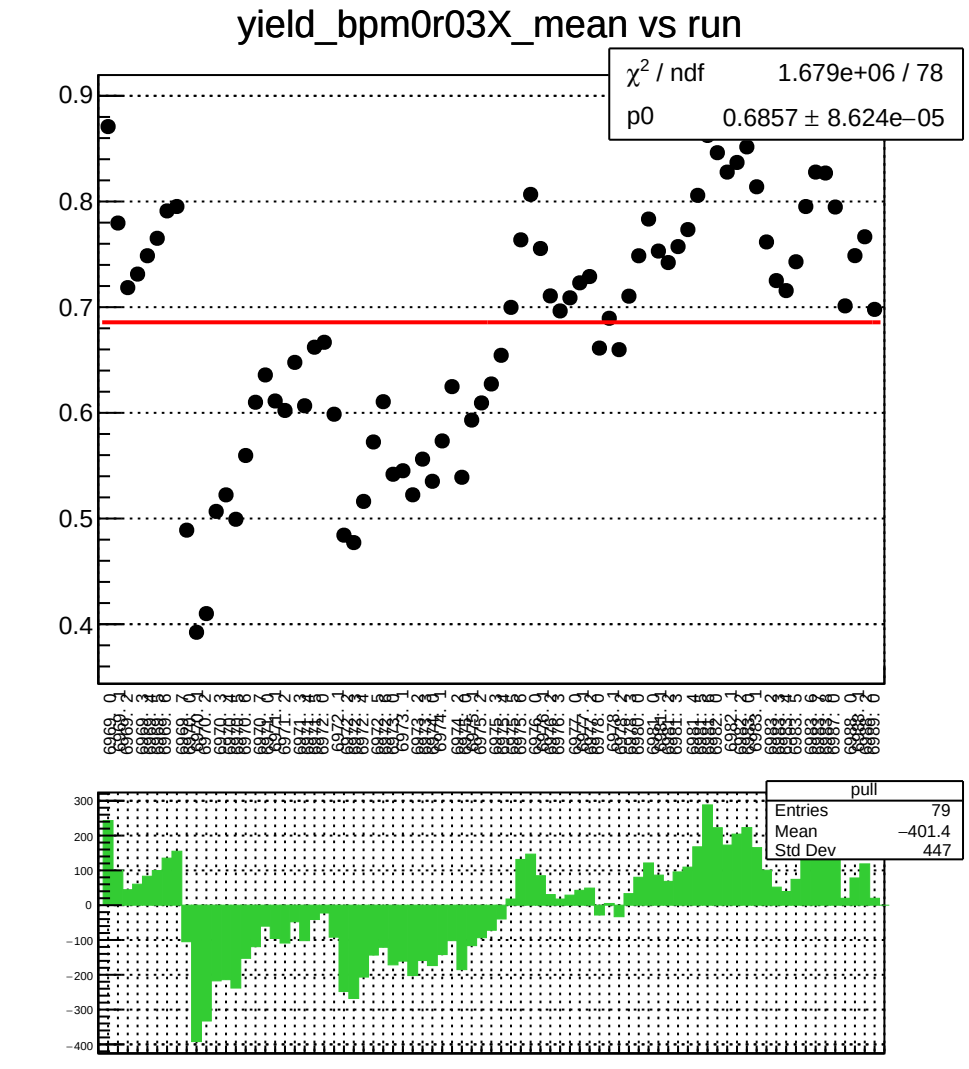

pull1D
Entries 79
Mean −0.4443
Std Dev 1.453
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

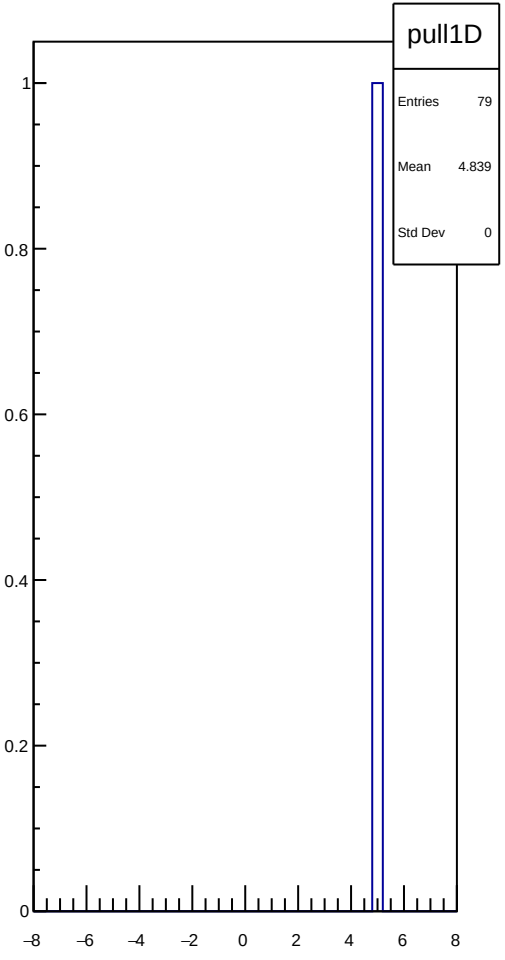

yield_bpm0l10X_rms vs run
χ² / ndf 1.077e+05 / 78
p0 0.01043 ± 8.653e–06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

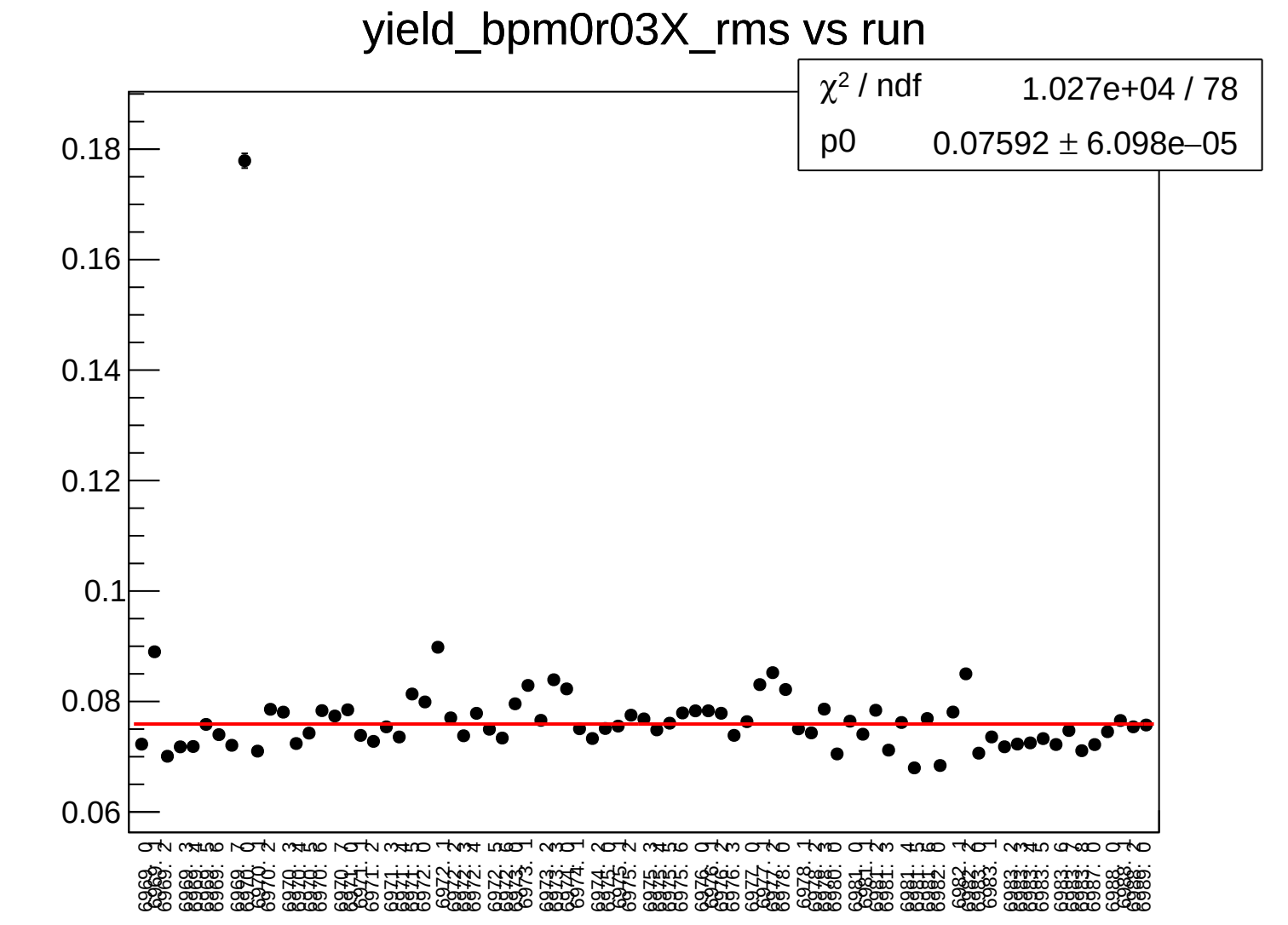

yield_bpm0l10Y_mean vs run
χ² / ndf 2.961e+07 / 78
p0 −0.5124 ± 4.16e−06
−0.46
−0.47
−0.48
−0.49
−0.5
−0.51
−0.52
−0.53
−0.54
−0.55
pull
Entries 79
Mean −635.1
Std Dev 673.4
2000
1500
1000
500
0
−500
−1000

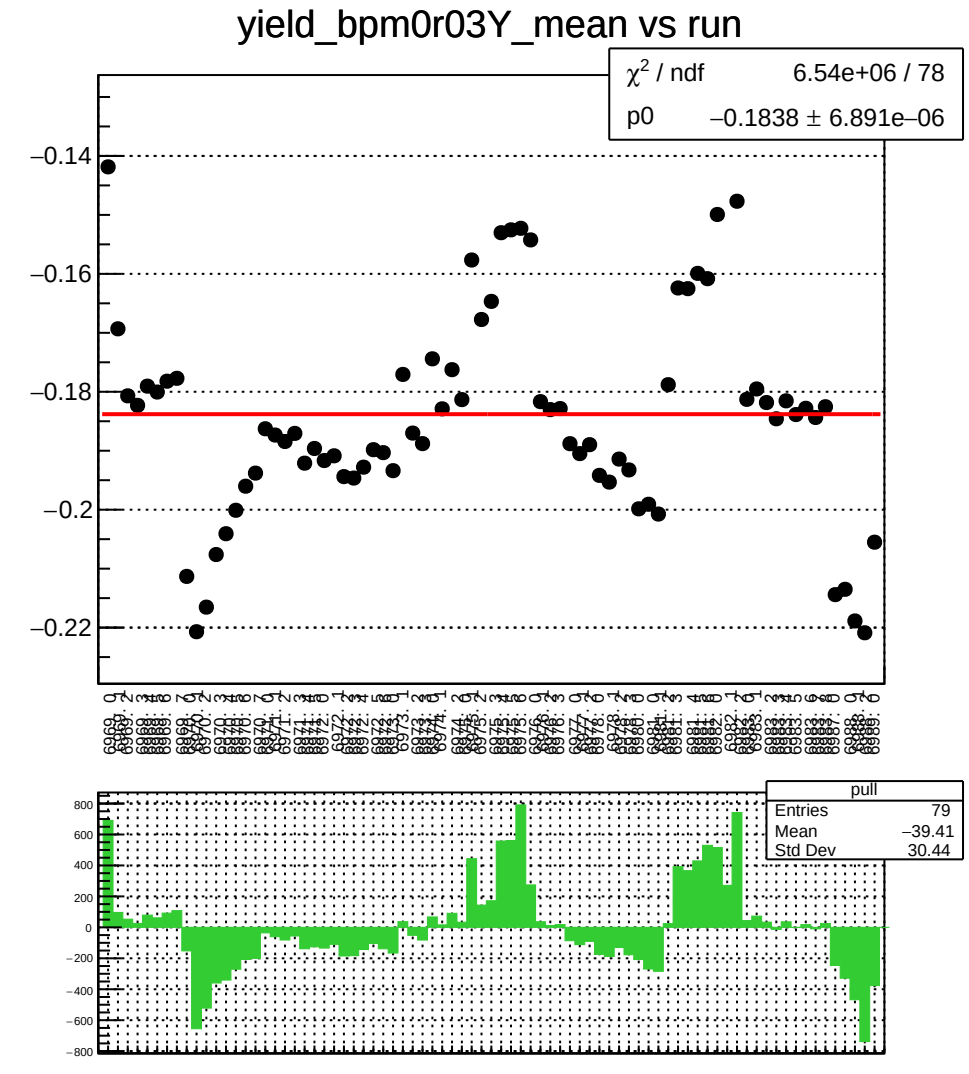

pull1D
Entries 79
Mean −1.254
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

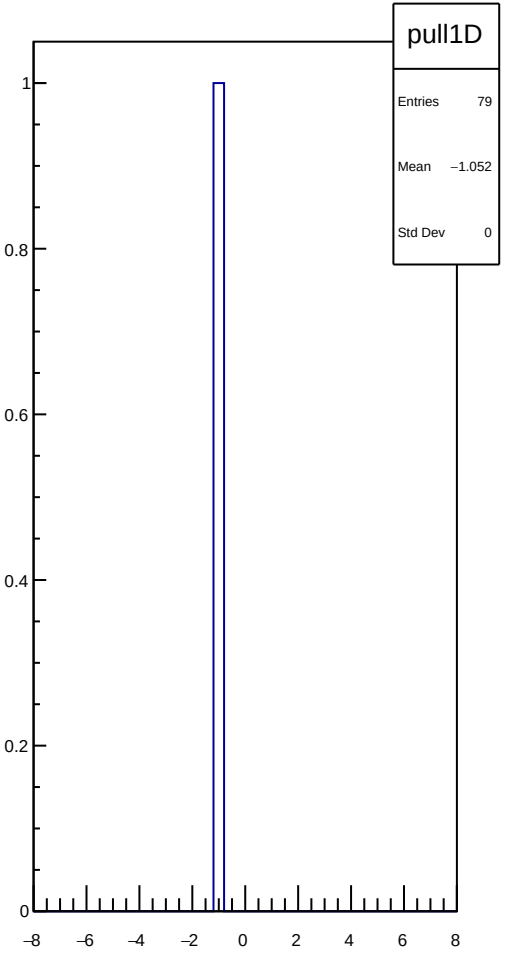

yield_bpm0l10Y_rms vs run
χ² / ndf 1.261e+05 / 78
p0 0.003522 ± 2.941e−06
0.025
0.02
0.015
0.01
0.005

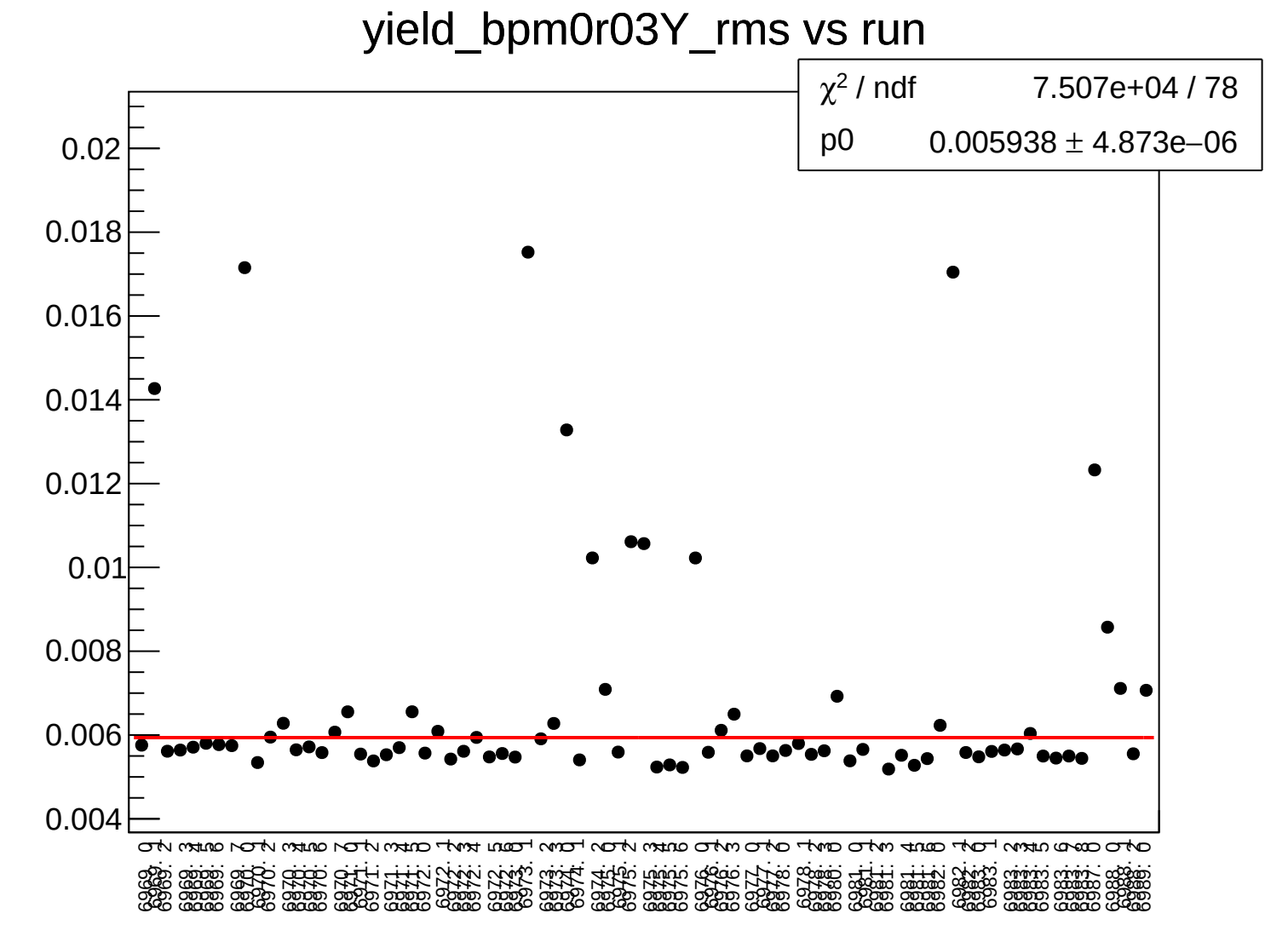

yield_bpm0r03X_mean vs run
χ² / ndf 1.679e+06 / 78
p0 0.6857 ± 8.624e−05
pull
Entries 79
Mean −401.4
Std Dev 447

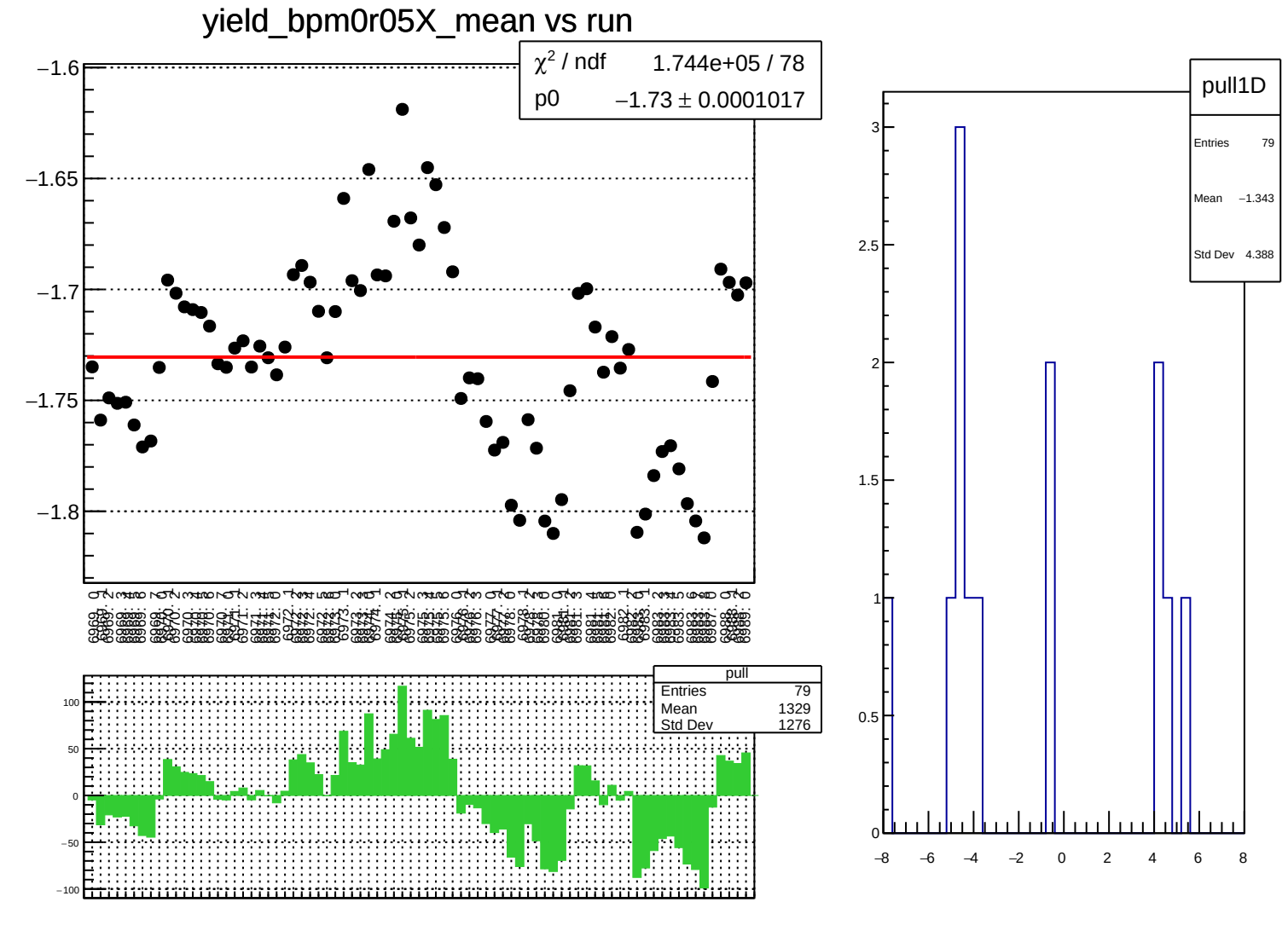

pull1D
Entries 79
Mean 4.839
Std Dev 0

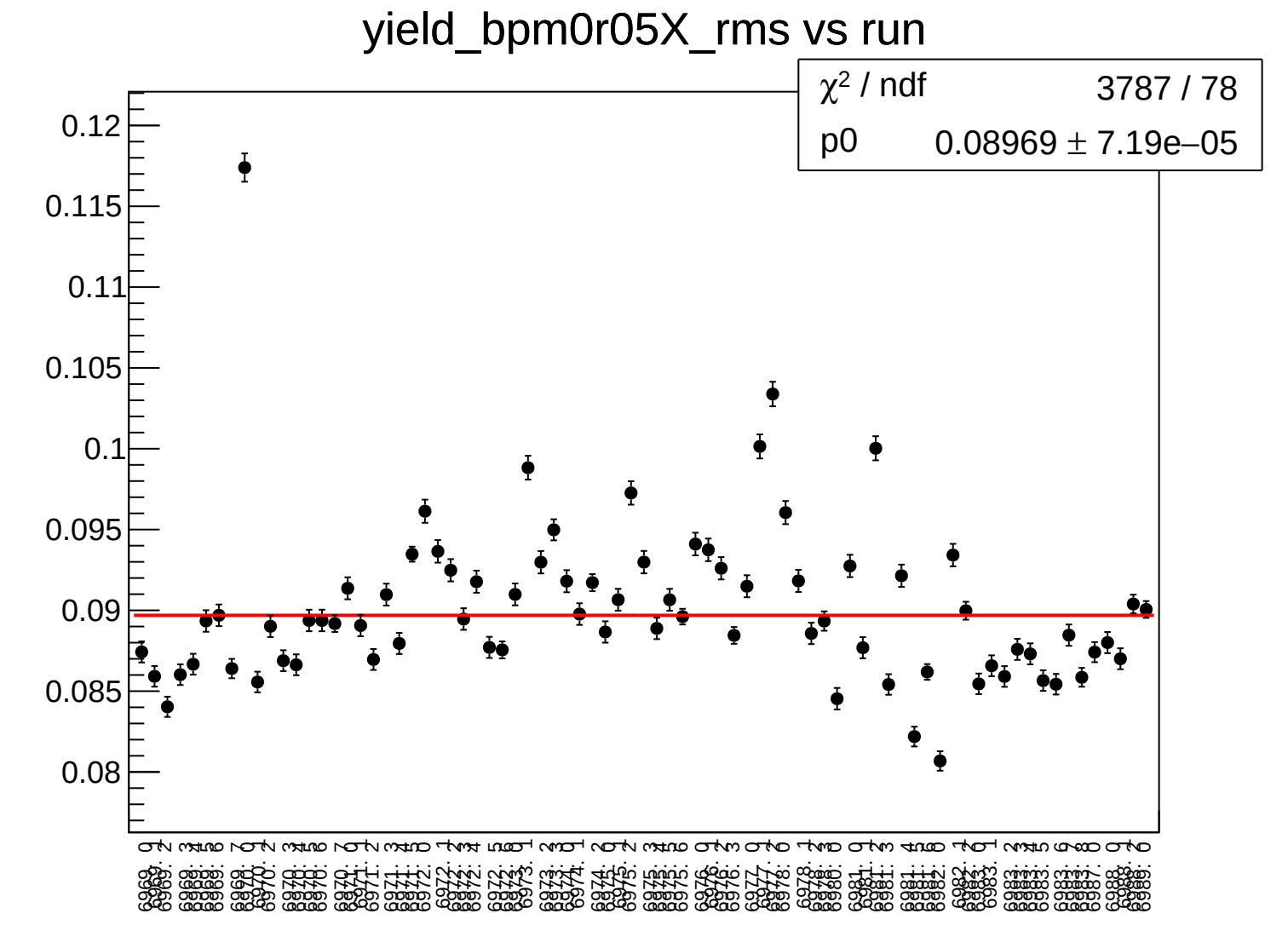

yield_bpm0r03X_rms vs run
χ² / ndf 1.027e+04 / 78
p0 0.07592 ± 6.098e–05
0.18
0.16
0.14
0.12
0.1
0.08
0.06

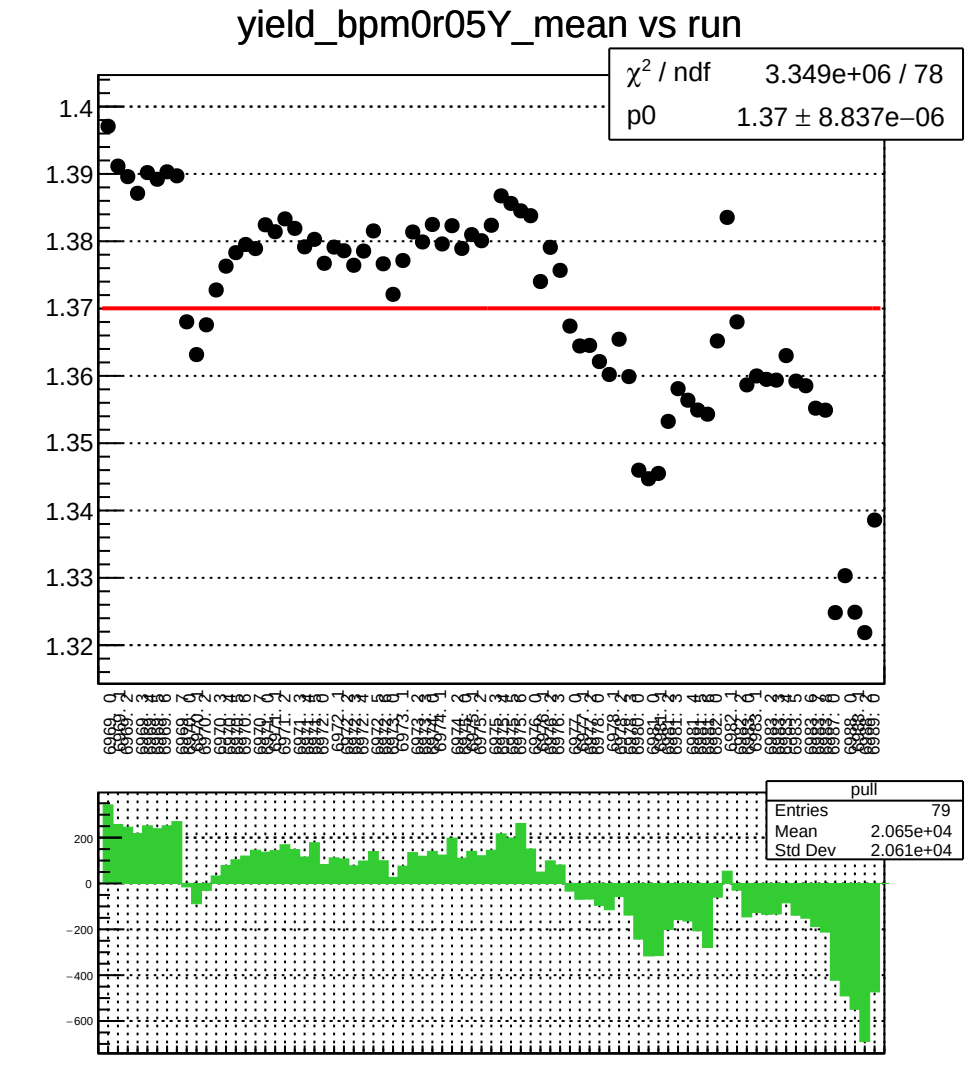

yield_bpm0r03Y_mean vs run
χ² / ndf 6.54e+06 / 78
p0 −0.1838 ± 6.891e−06
−0.14
−0.16
−0.18
−0.2
−0.22
pull
Entries 79
Mean −39.41
Std Dev 30.44
800
600
400
200
0
−200
−400
−600
−800

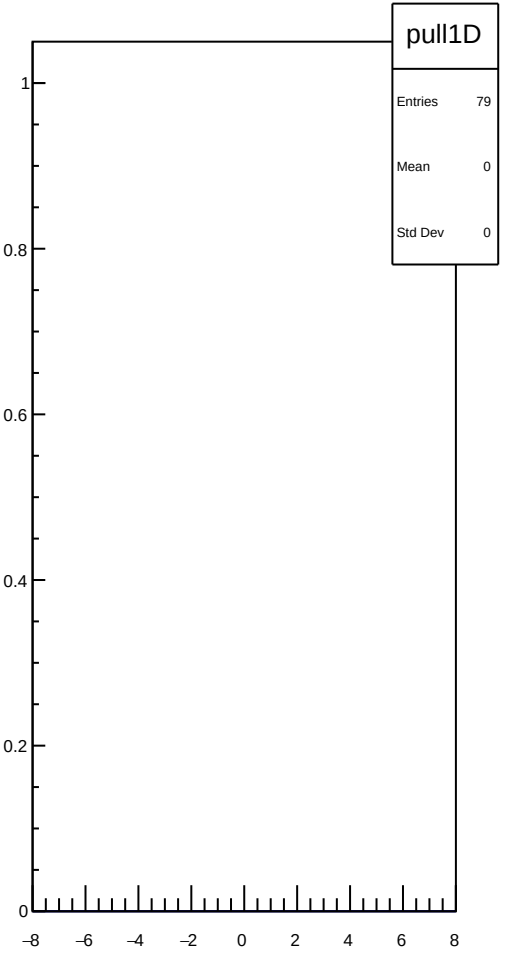

pull1D
Entries 79
Mean −1.052
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

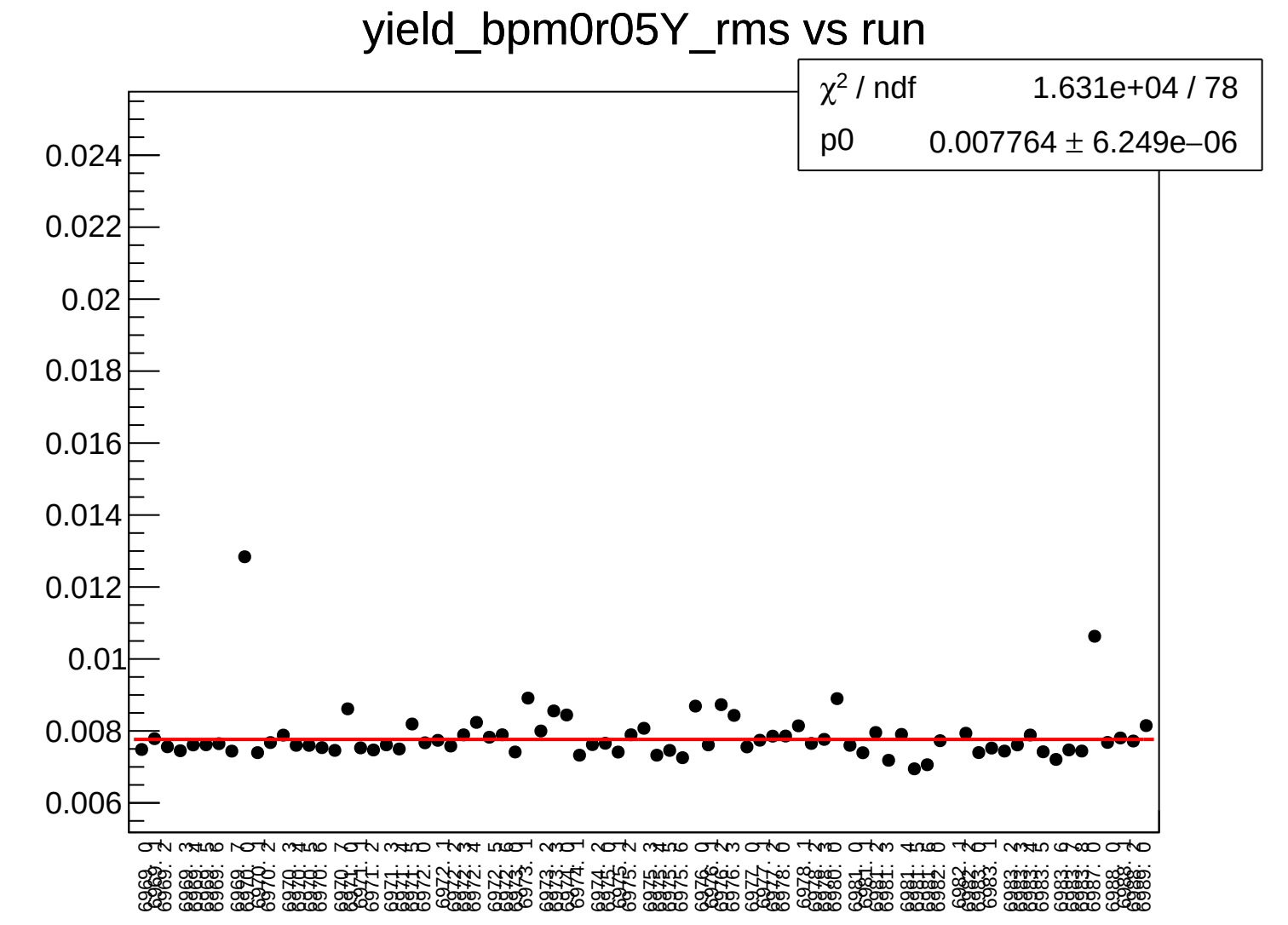

yield_bpm0r03Y_rms vs run
χ^2 / ndf 7.507e+04 / 78
p0 0.005938 ± 4.873e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

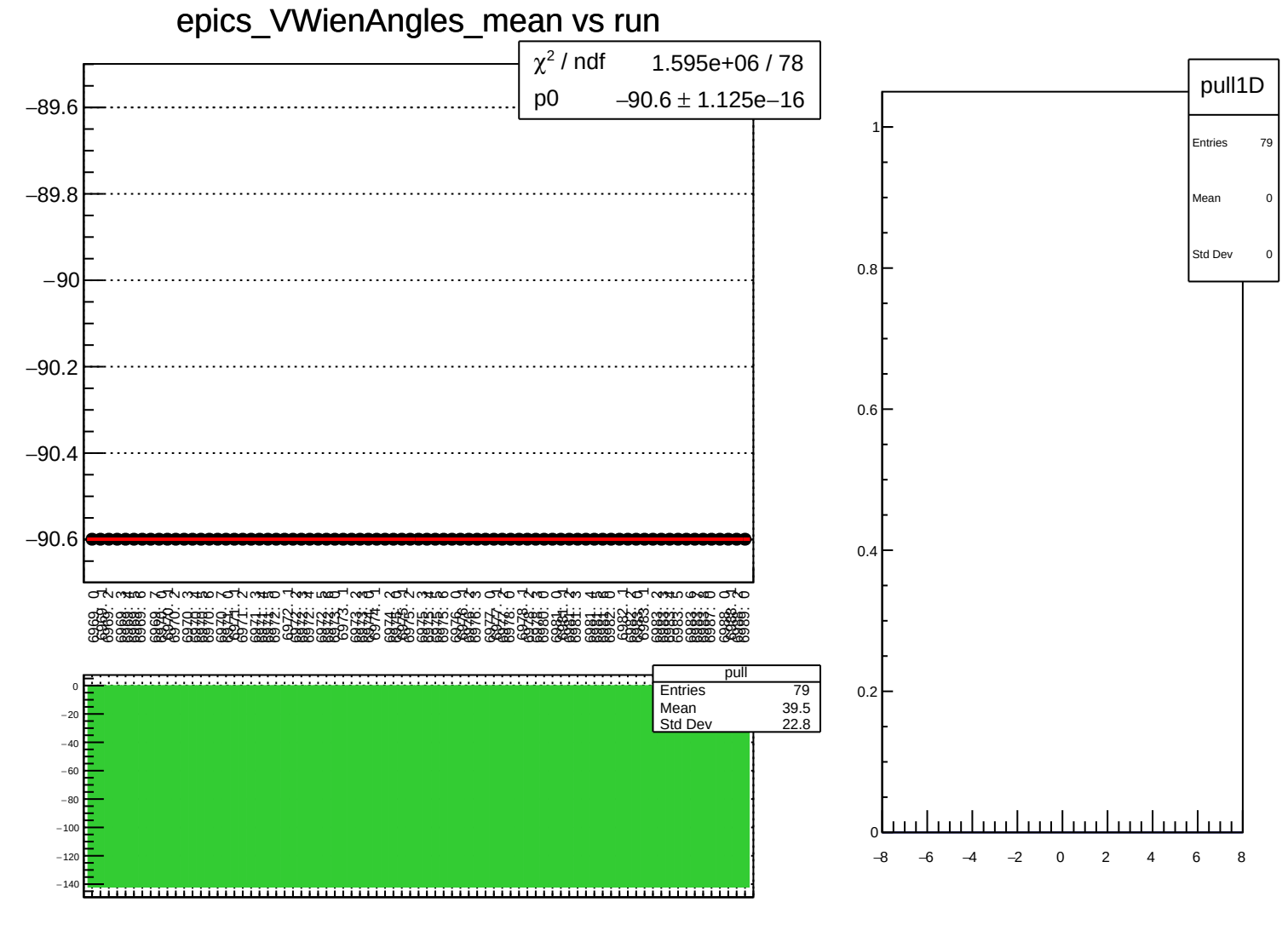

yield_bpm0r05X_mean vs run
χ² / ndf 1.744e+05 / 78
p0 −1.73 ± 0.0001017
−1.6
−1.65
−1.7
−1.75
−1.8
pull
Entries 79
Mean 1329
Std Dev 1276
100
50
0
−50
−100
pull1D
Entries 79
Mean −1.343
Std Dev 4.388
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

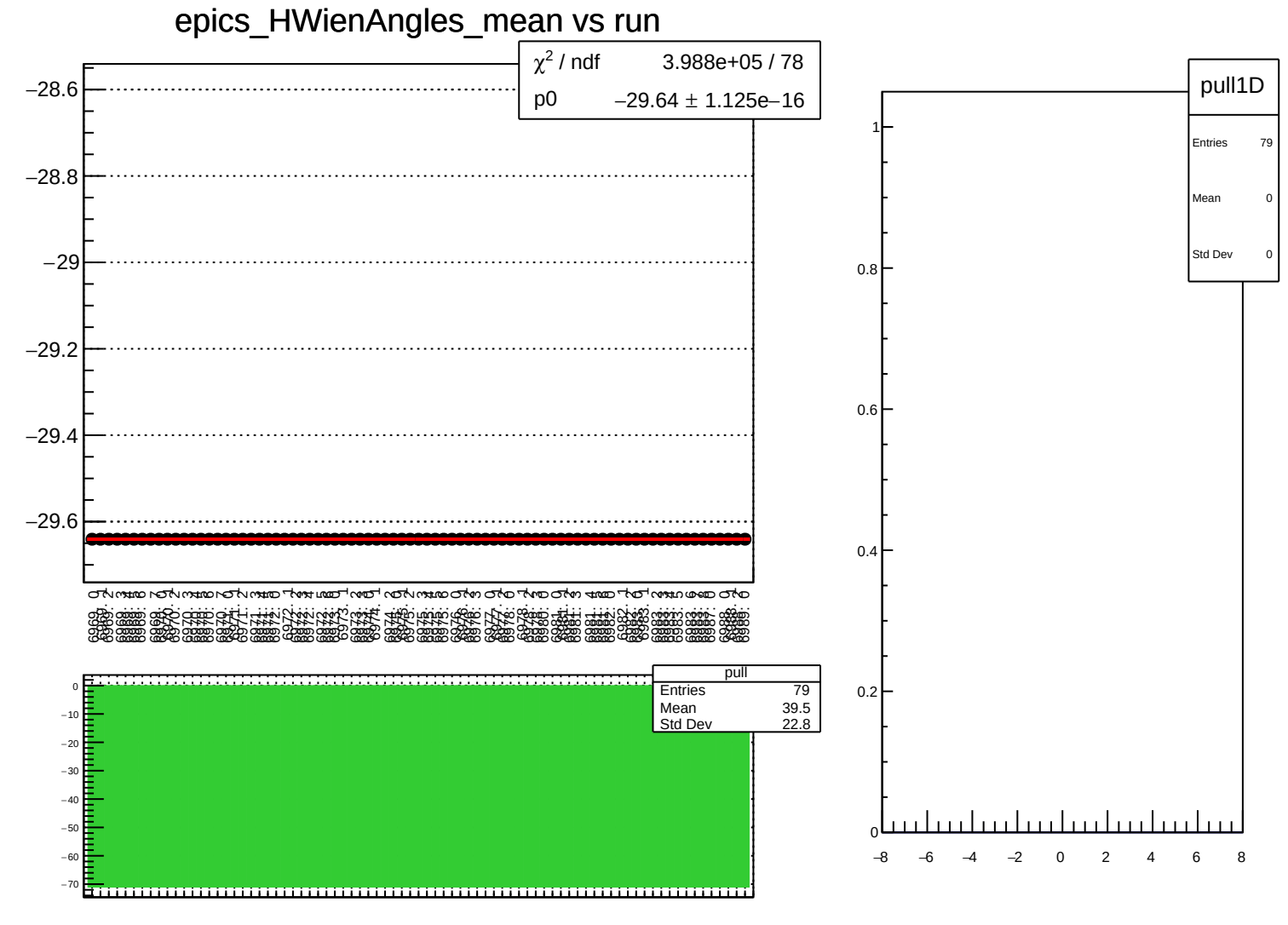

yield_bpm0r05X_rms vs run
χ² / ndf 3787 / 78
p0 0.08969 ± 7.19e–05
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085
0.08

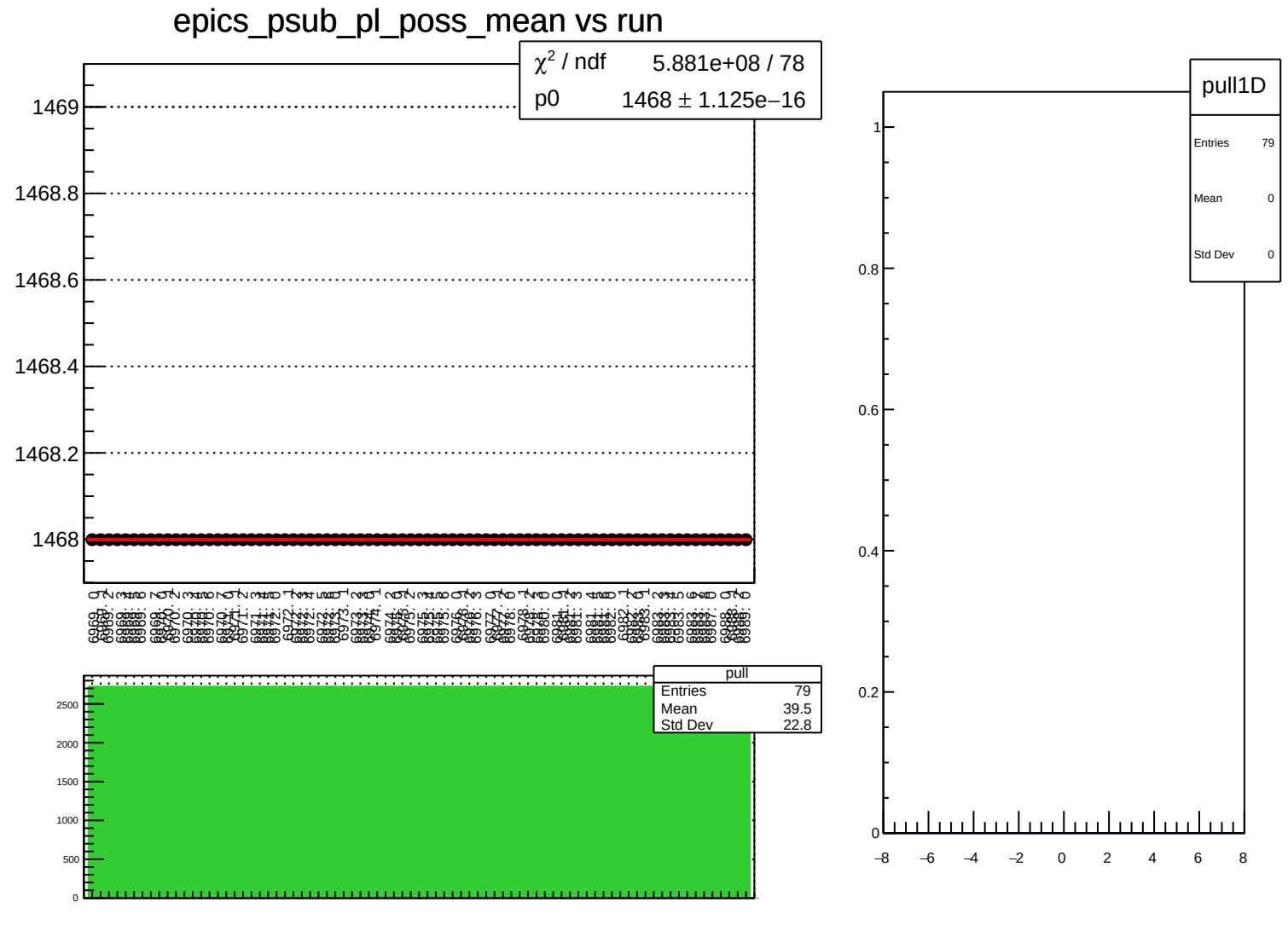

yield_bpm0r05Y_mean vs run
χ² / ndf 3.349e+06 / 78
p0 1.37 ± 8.837e−06
pull
Entries 79
Mean 2.065e+04
Std Dev 2.061e+04

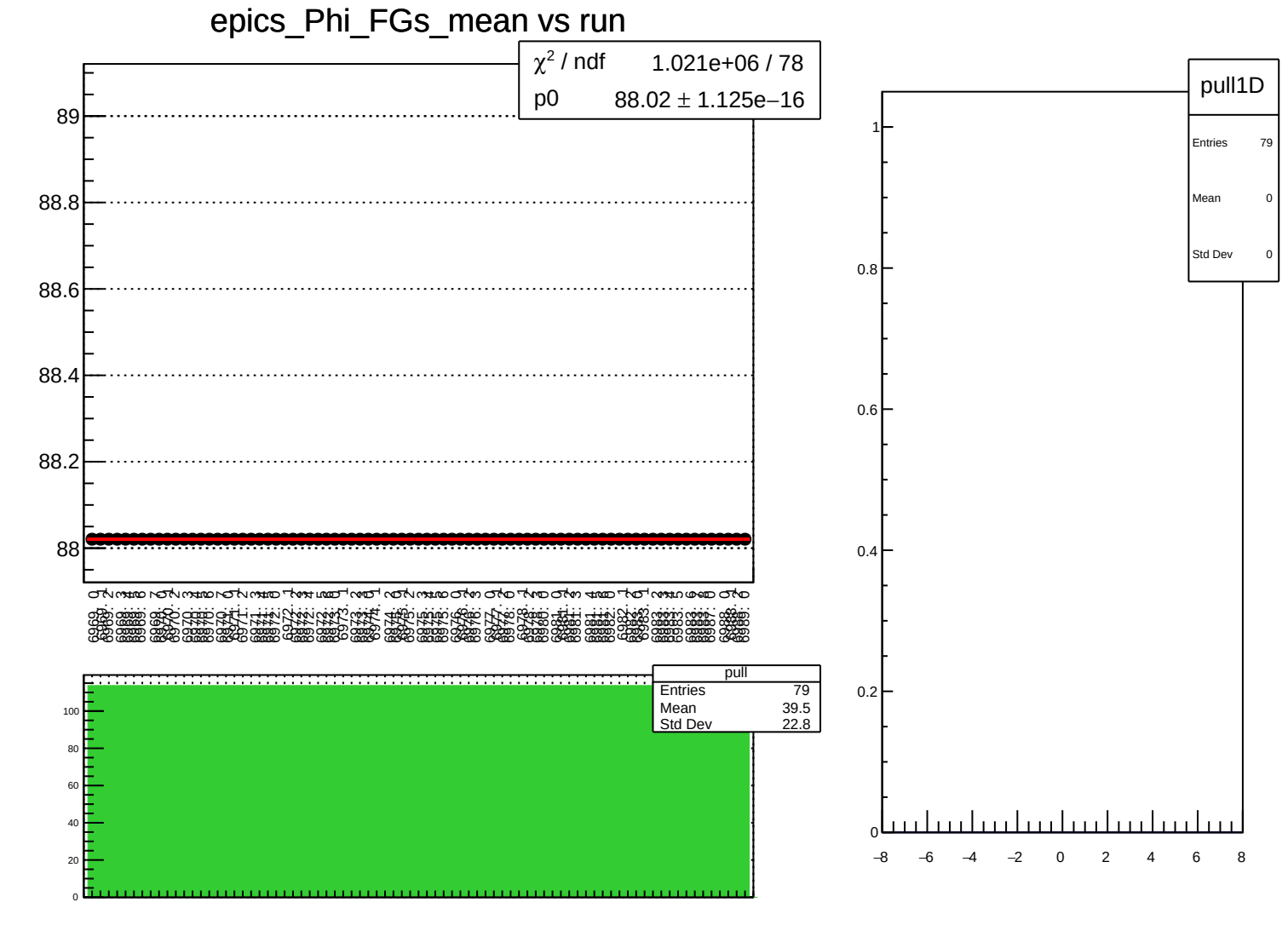

pull1D
Entries 79
Mean 0
Std Dev 0

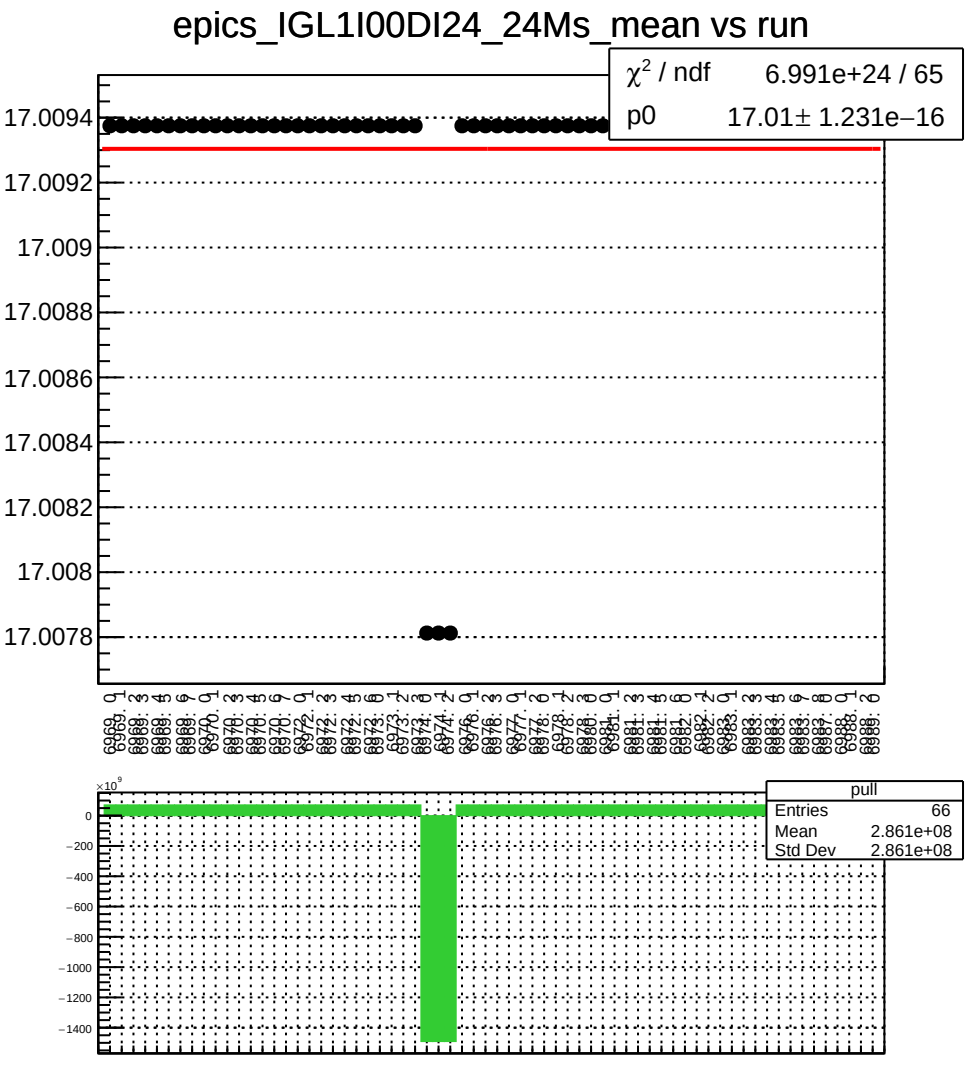

yield_bpm0r05Y_rms vs run
χ² / ndf 1.631e+04 / 78
p0 0.007764 ± 6.249e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

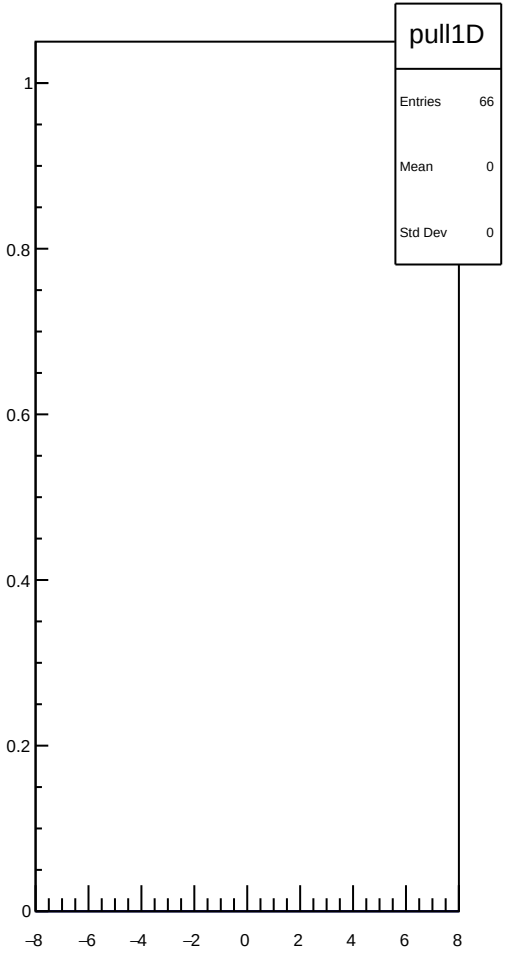

epics_VWienAngles_mean vs run
χ² / ndf 1.595e+06 / 78
p0 −90.6 ± 1.125e−16
−89.6
−89.8
−90
−90.2
−90.4
−90.6
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−20
−40
−60
−80
−100
−120
−140
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

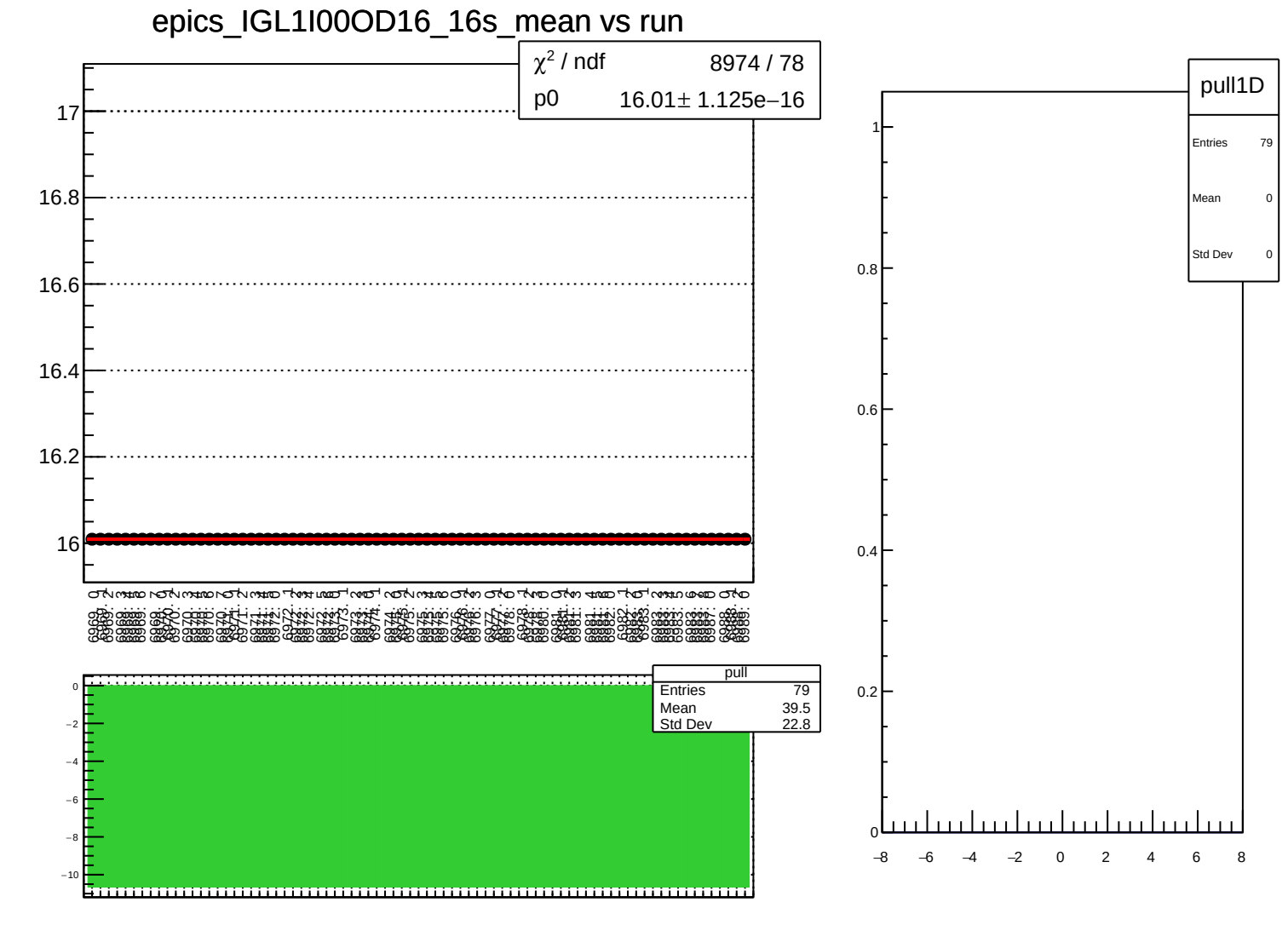

epics_HWienAngles_mean vs run
χ² / ndf 3.988e+05 / 78
p0 −29.64 ± 1.125e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−10
−20
−30
−40
−50
−60
−70
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

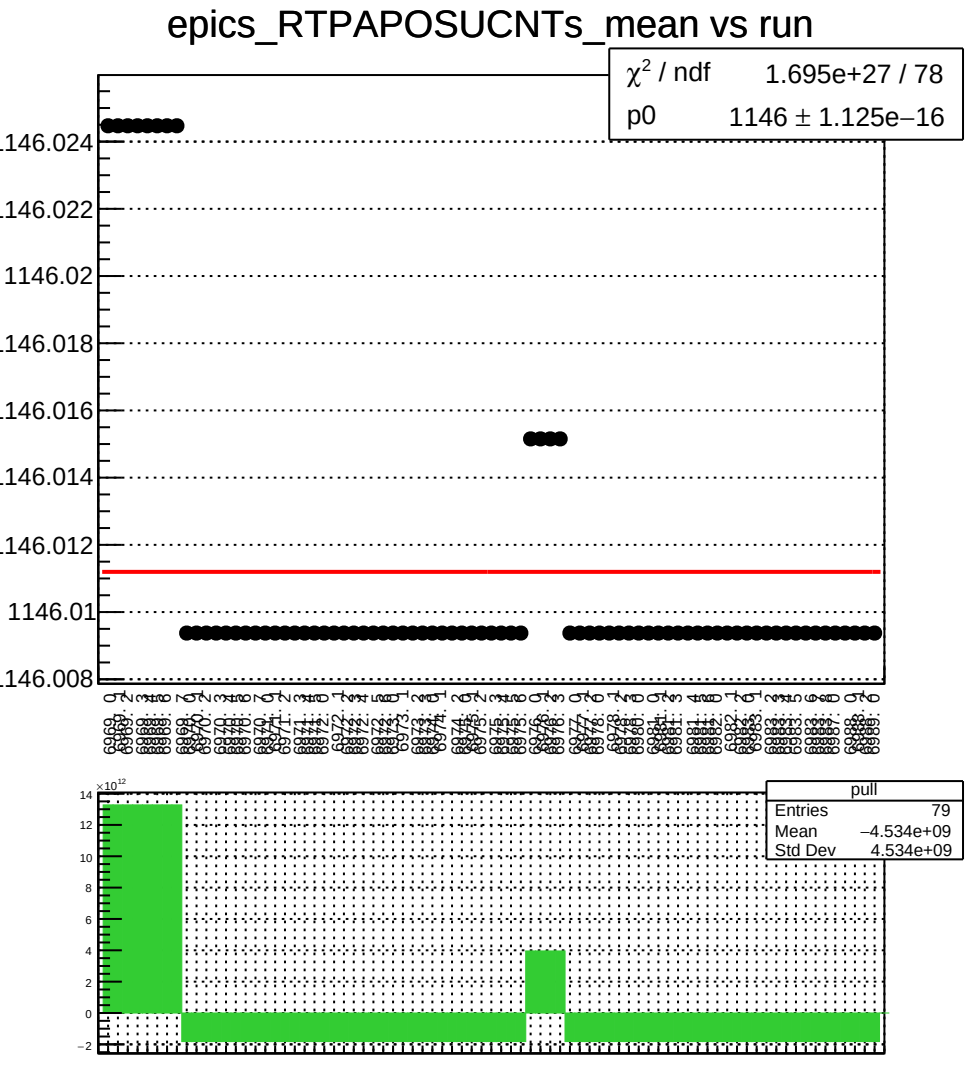

epics_psub_pl_poss_mean vs run
χ² / ndf 5.881e+08 / 78
p0 1468 ± 1.125e−16
1469
1468.8
1468.6
1468.4
1468.2
1468
pull
Entries 79
Mean 39.5
Std Dev 22.8
2500
2000
1500
1000
500
0
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

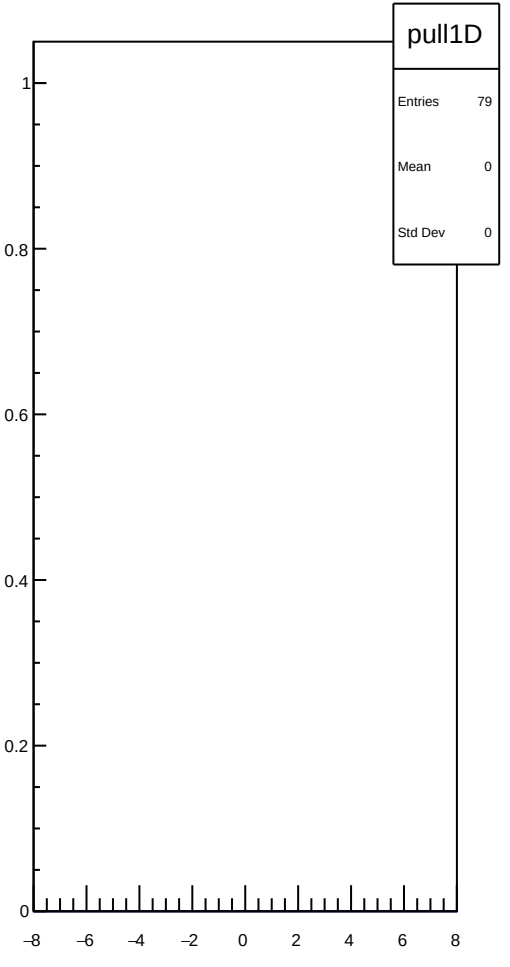

epics_Phi_FGs_mean vs run
χ² / ndf 1.021e+06 / 78
p0 88.02 ± 1.125e−16
pull
Entries 79
Mean 39.5
Std Dev 22.8
pull1D
Entries 79
Mean 0
Std Dev 0

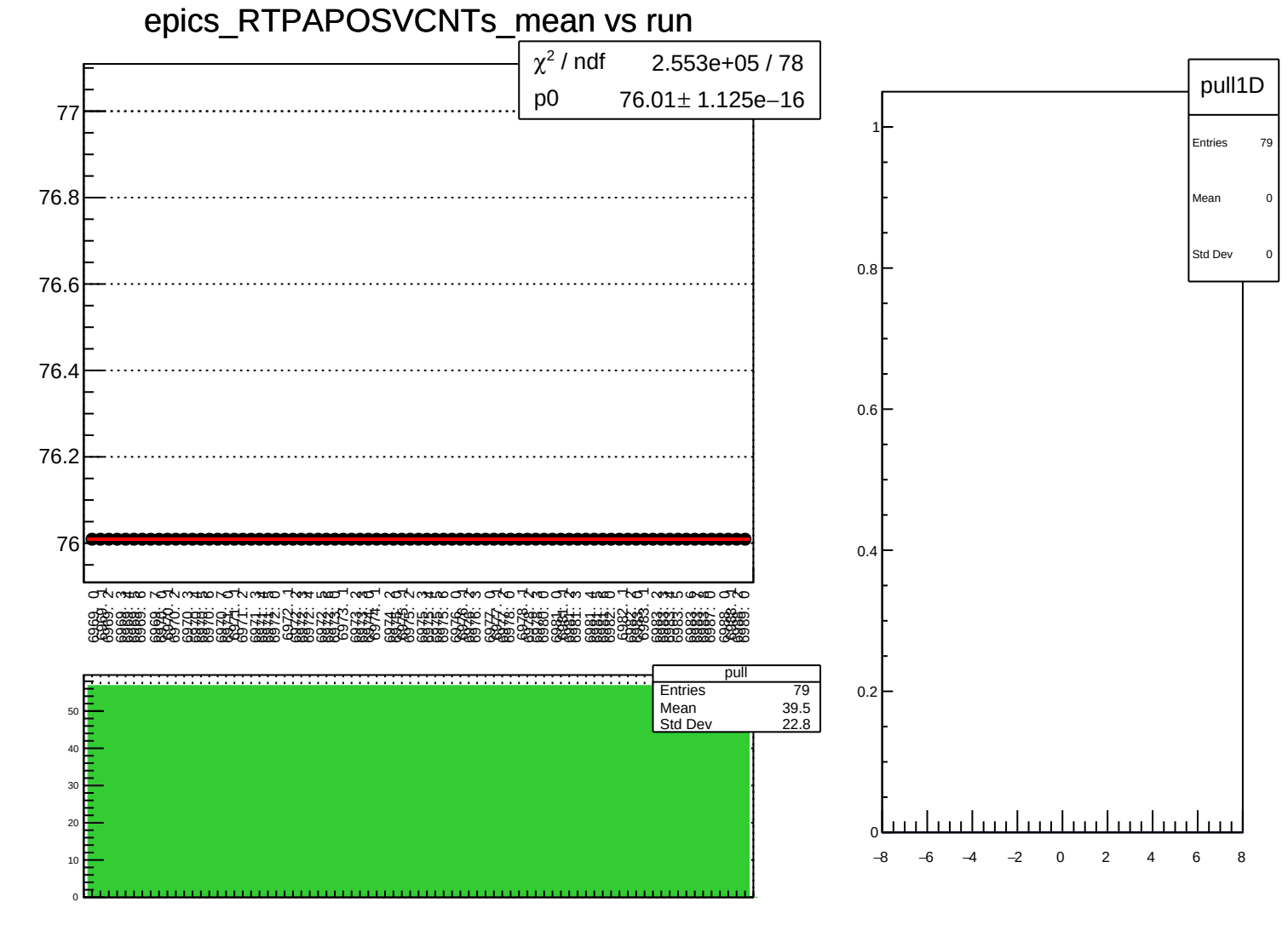

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 6.991e+24 / 65
p0 17.01± 1.231e−16
17.0094
17.0092
17.009
17.0088
17.0086
17.0084
17.0082
17.008
17.0078
pull
Entries 66
Mean 2.861e+08
Std Dev 2.861e+08
×10⁹
0
−200
−400
−600
−800
−1000
−1200
−1400


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 8974 / 78
p0 16.01± 1.125e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 79
Mean 39.5
Std Dev 22.8
0
−2
−4
−6
−8
−10
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.695e+27 / 78
p0 1146 ± 1.125e−16
1146.024
1146.022
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
1146.008
pull
Entries 79
Mean −4.534e+09
Std Dev 4.534e+09
×10¹²
14
12
10
8
6
4
2
0
−2


pull1D
Entries 79
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 2.553e+05 / 78
p0 76.01± 1.125e−16
77
76.8
76.6
76.4
76.2
76
pull
Entries 79
Mean 39.5
Std Dev 22.8
50
40
30
20
10
0
pull1D
Entries 79
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8