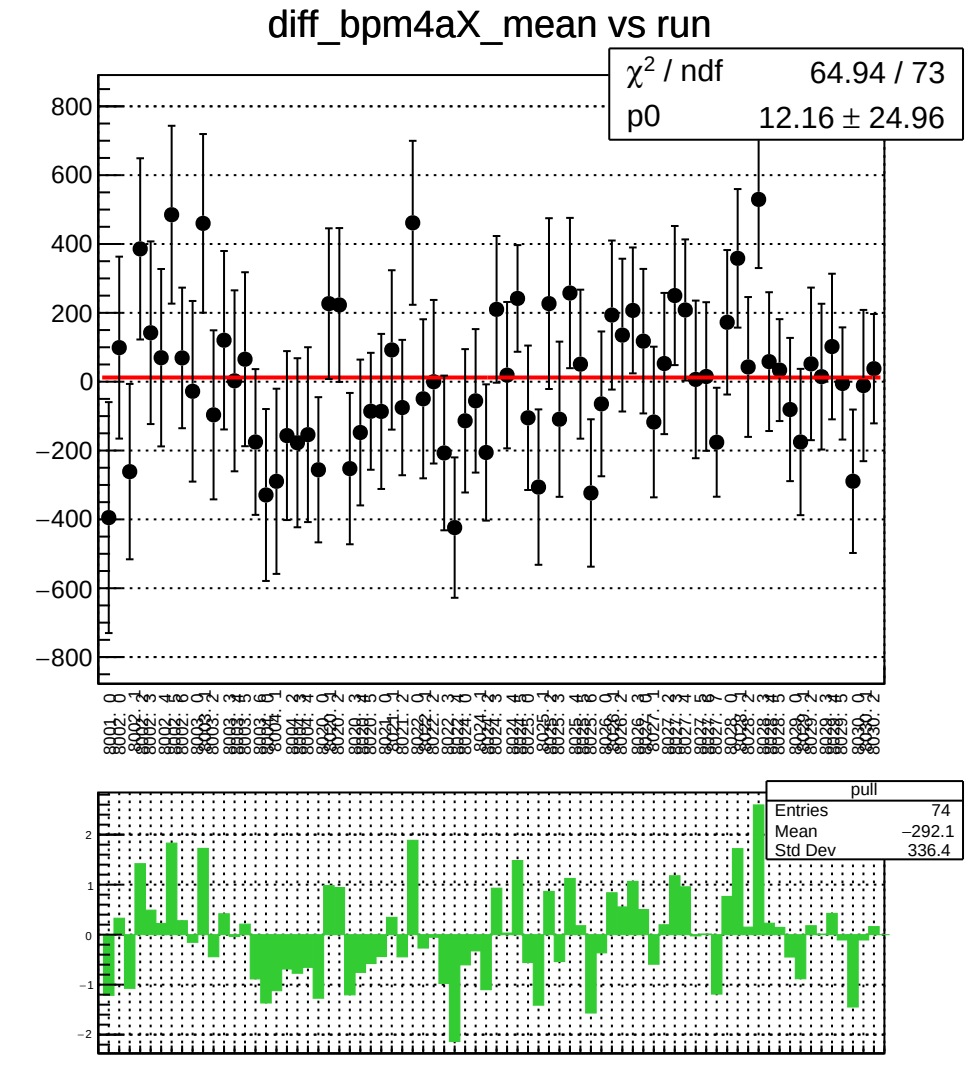
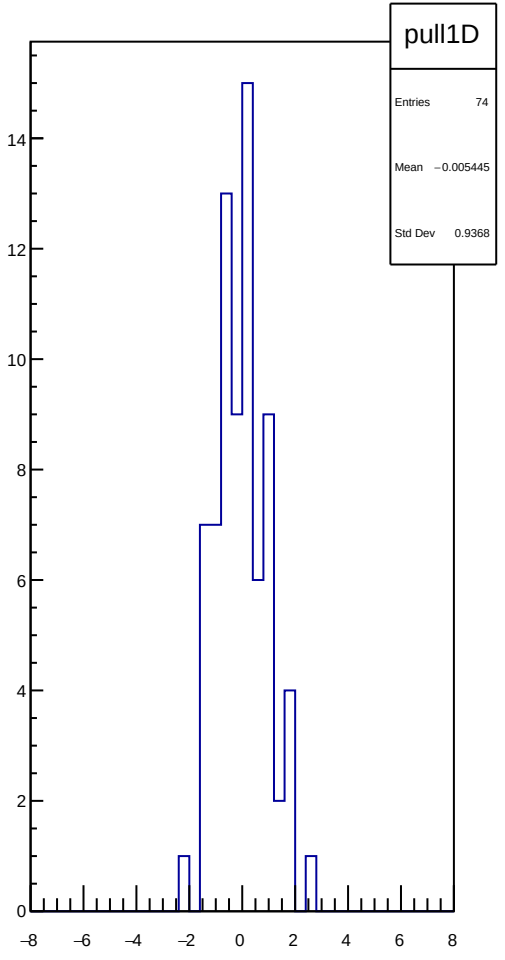
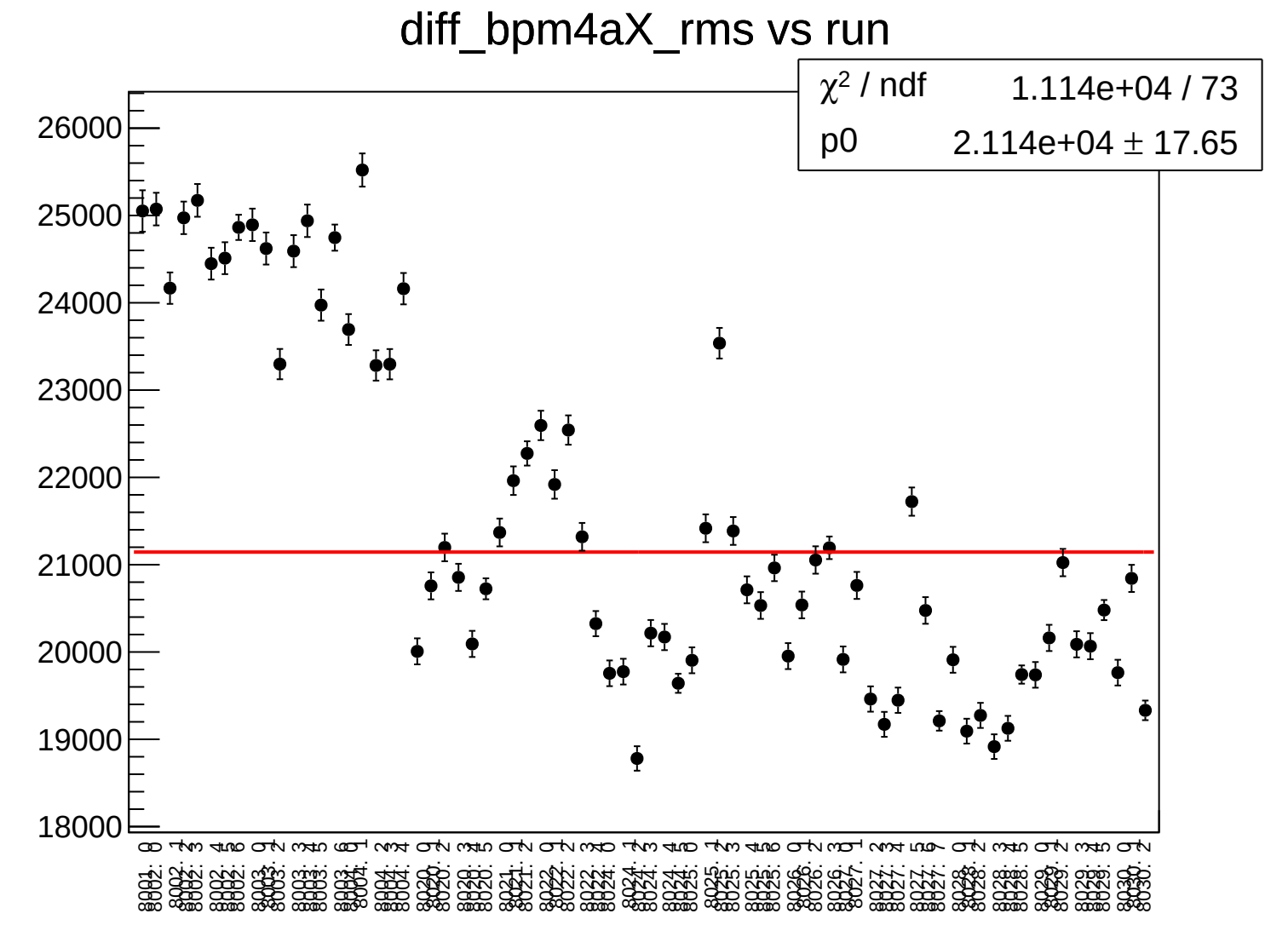
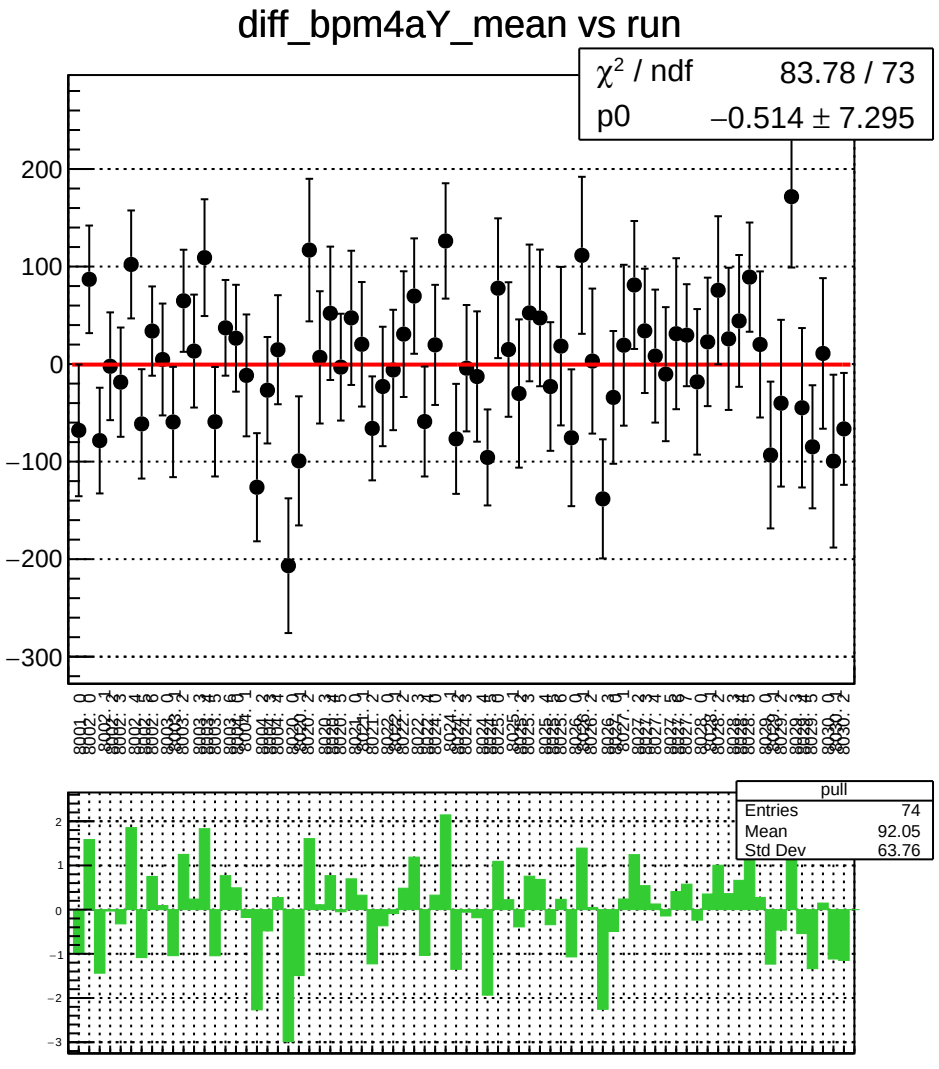
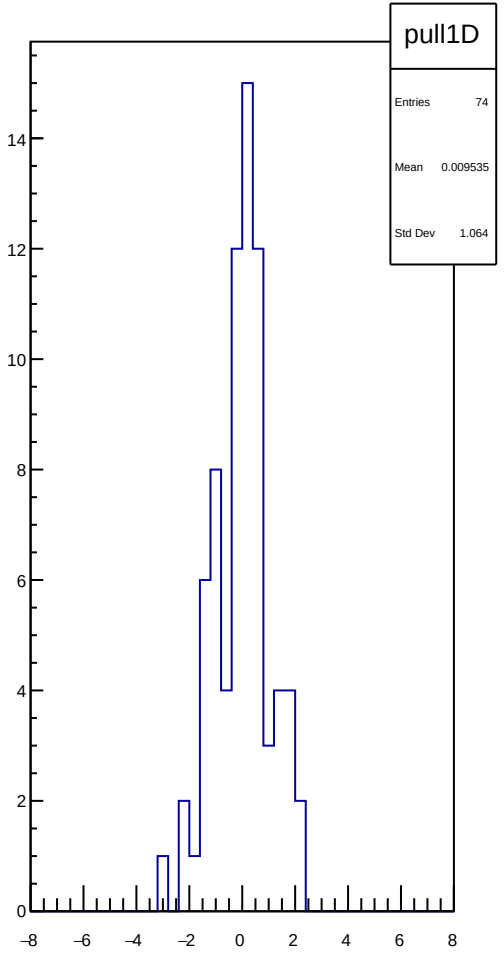
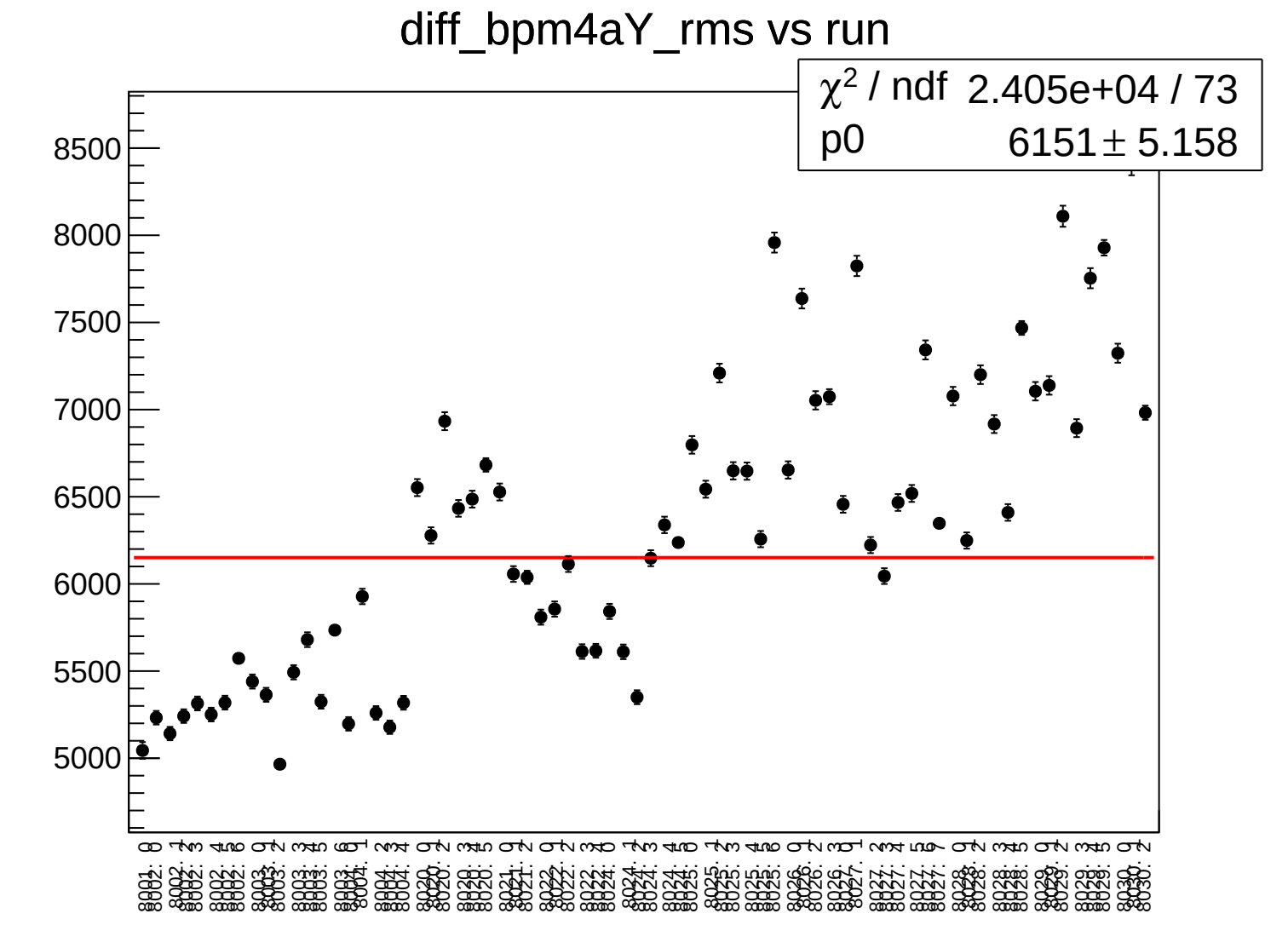

diff_bpm4aX_mean vs run
χ² / ndf 64.94 / 73
p0 12.16 ± 24.96
pull
Entries 74
Mean −292.1
Std Dev 336.4

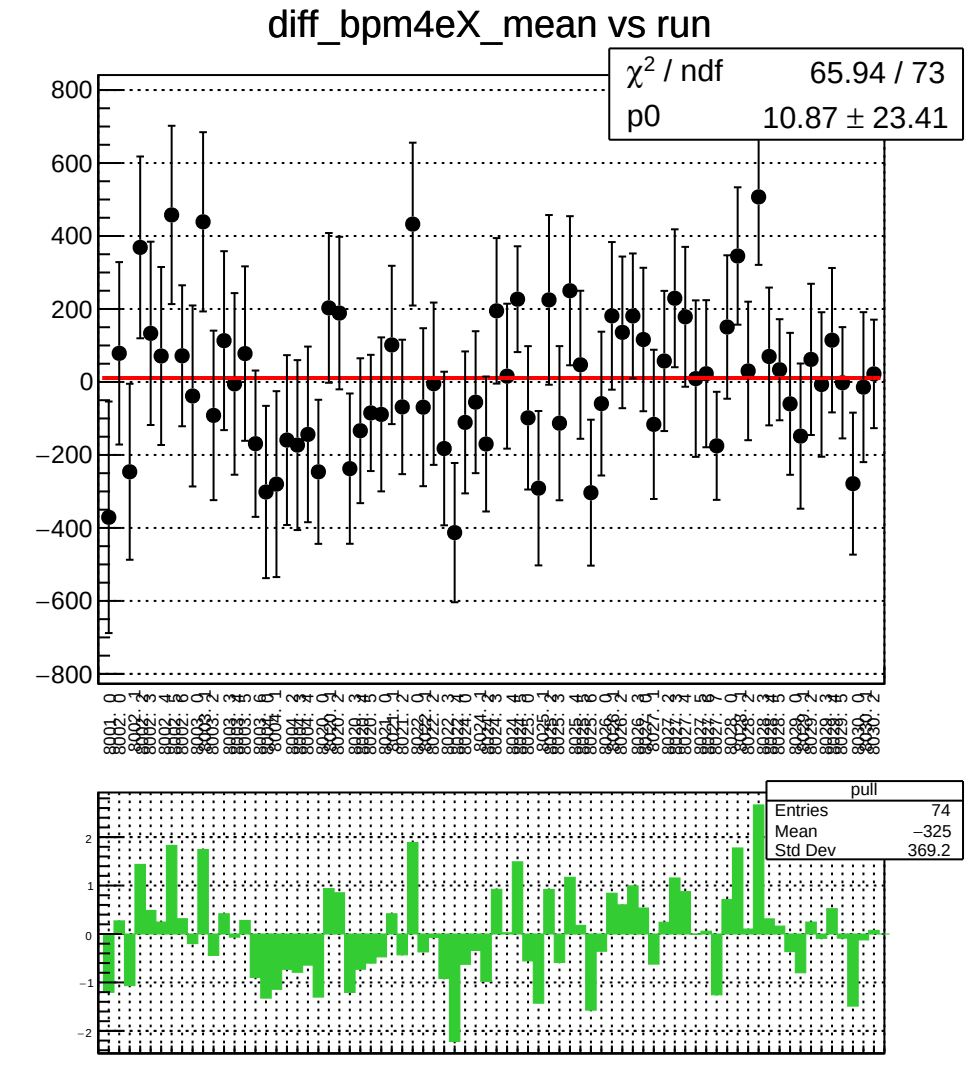

pull1D
Entries 74
Mean −0.005445
Std Dev 0.9368

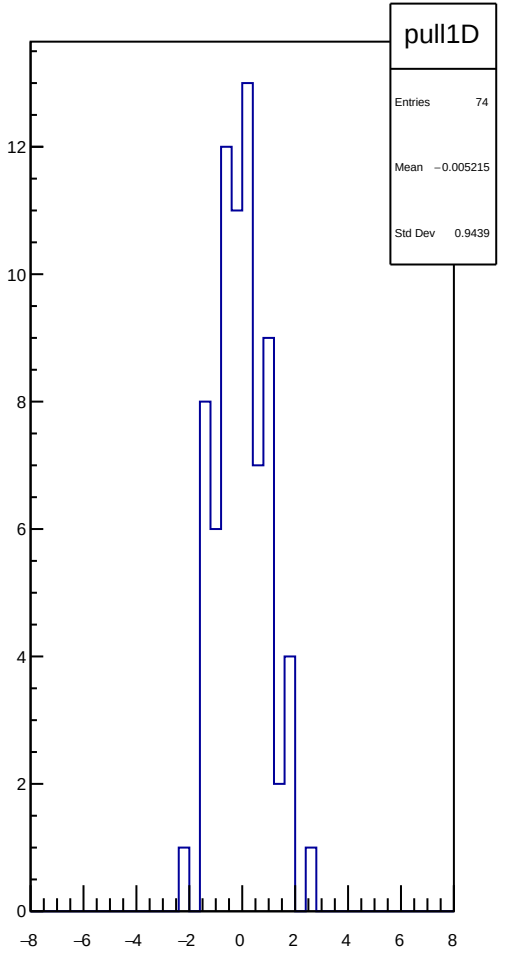

diff_bpm4aX_rms vs run
χ² / ndf 1.114e+04 / 73
p0 2.114e+04 ± 17.65
26000
25000
24000
23000
22000
21000
20000
19000
18000

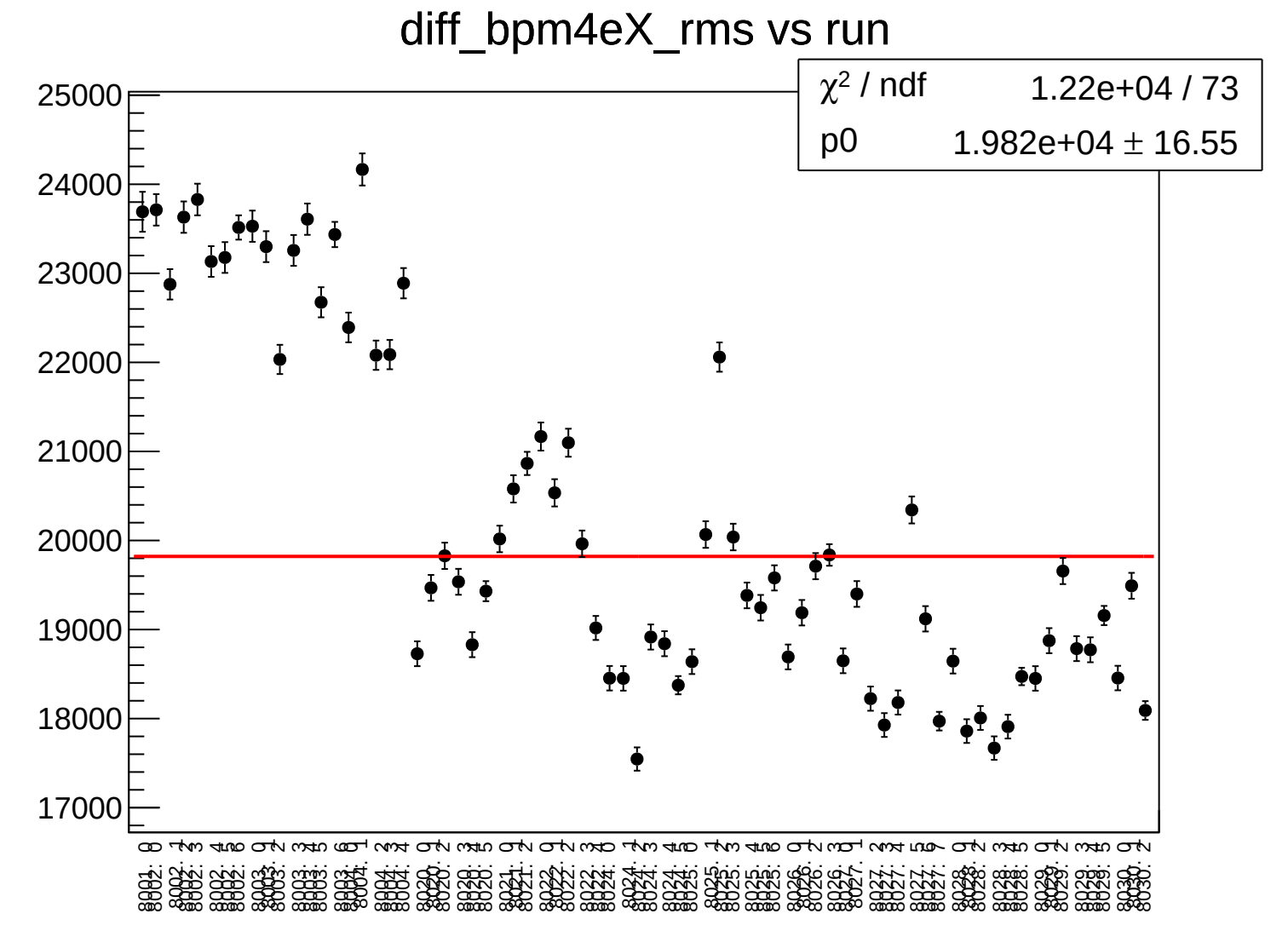

diff_bpm4aY_mean vs run
χ² / ndf 83.78 / 73
p0 −0.514 ± 7.295
200
100
0
−100
−200
−300
pull
Entries 74
Mean 92.05
Std Dev 63.76
2
1
0
−1
−2
−3

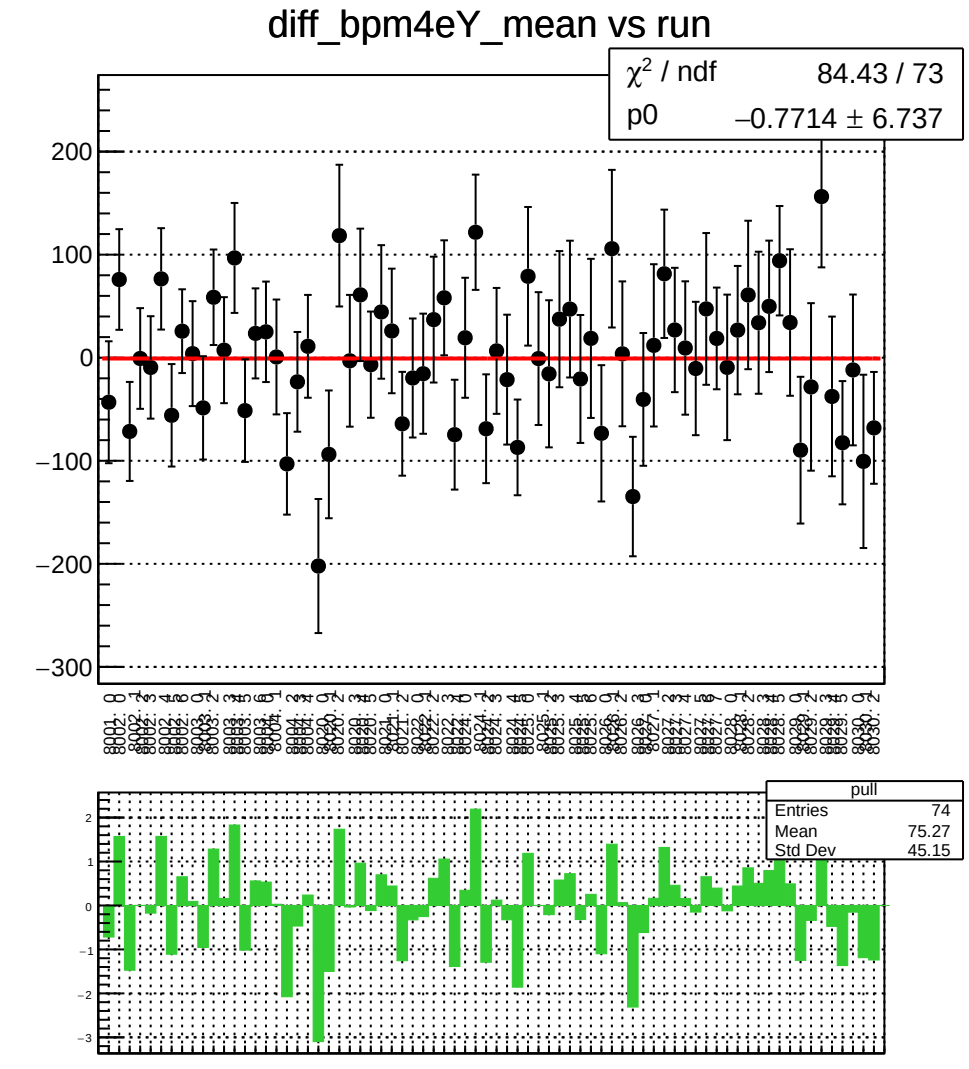

pull1D
Entries 74
Mean 0.009535
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

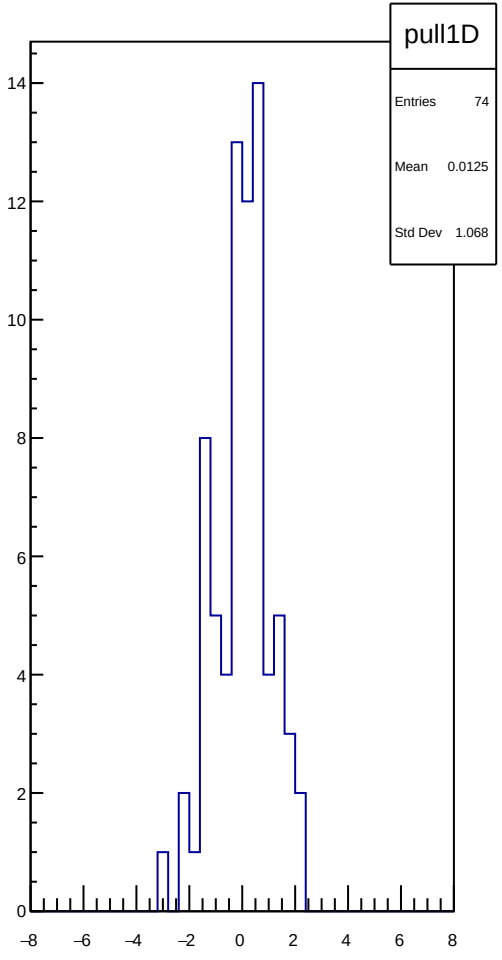

diff_bpm4aY_rms vs run
χ^2 / ndf 2.405e+04 / 73
p0 6151 ± 5.158
8500
8000
7500
7000
6500
6000
5500
5000

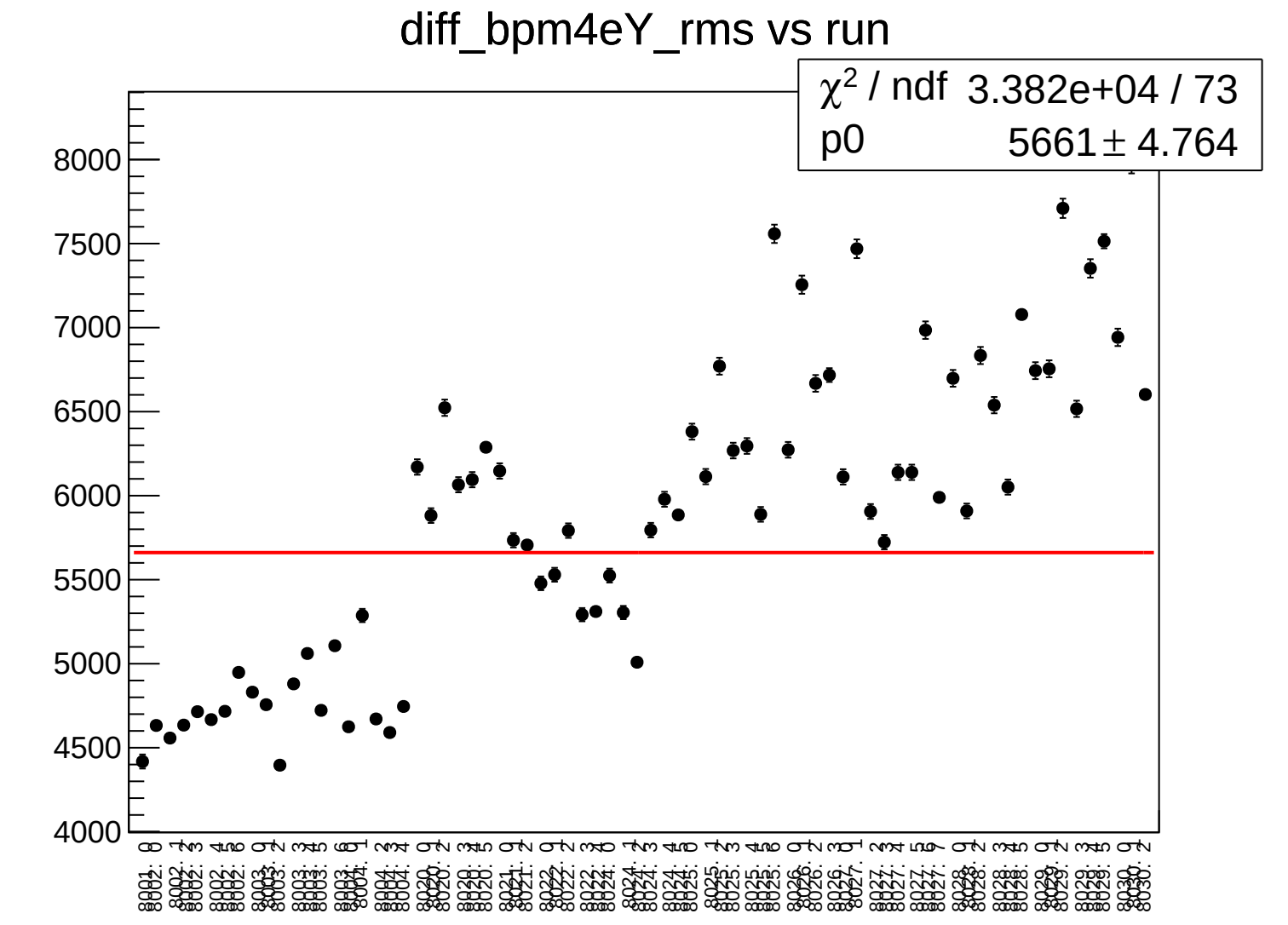

diff_bpm4eX_mean vs run
χ² / ndf 65.94 / 73
p0 10.87 ± 23.41
pull
Entries 74
Mean −325
Std Dev 369.2

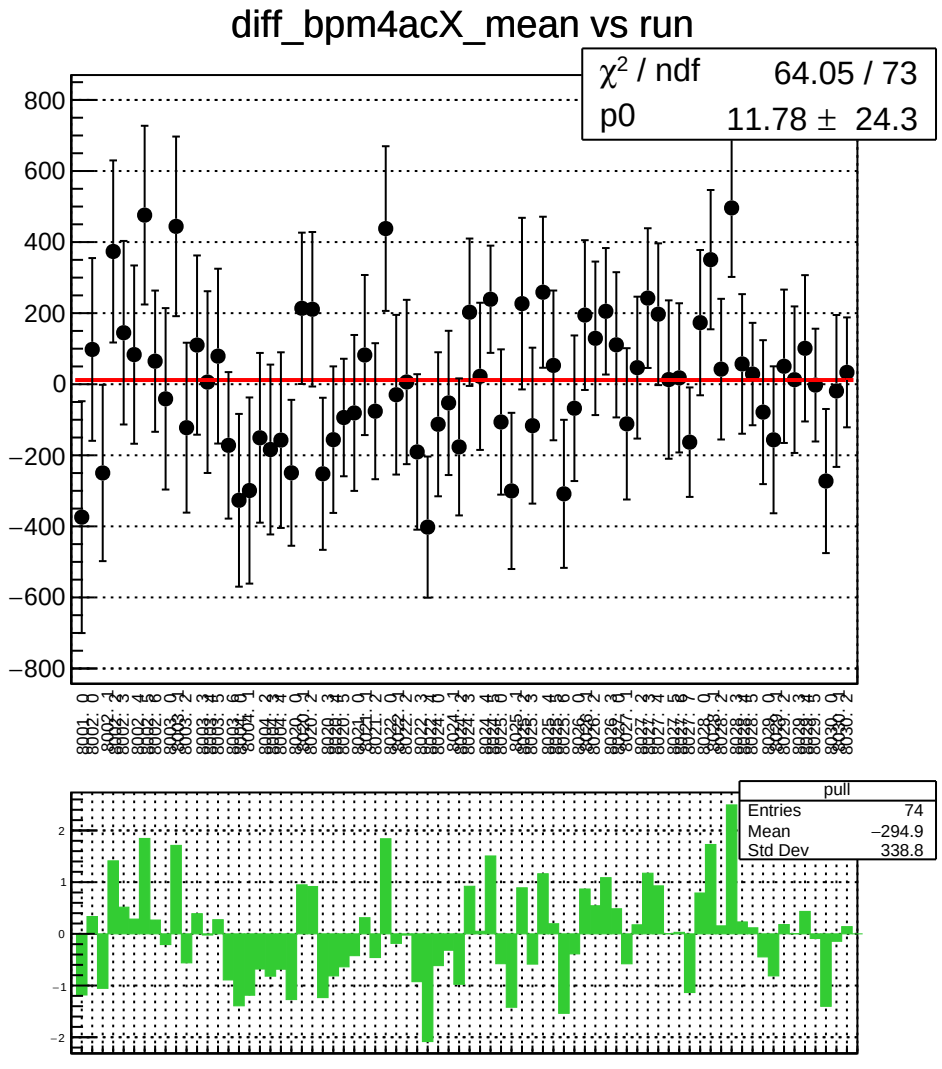

pull1D
Entries 74
Mean −0.005215
Std Dev 0.9439

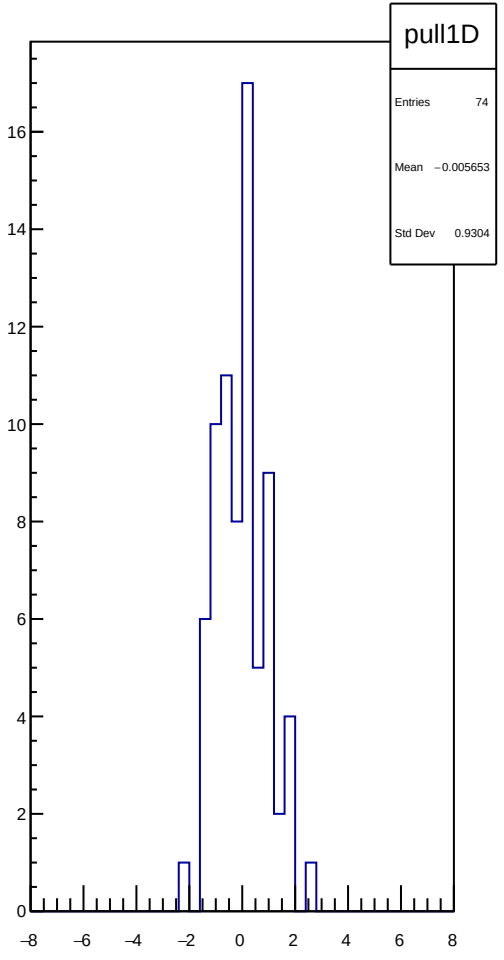

diff_bpm4eX_rms vs run
χ² / ndf 1.22e+04 / 73
p0 1.982e+04 ± 16.55
25000
24000
23000
22000
21000
20000
19000
18000
17000

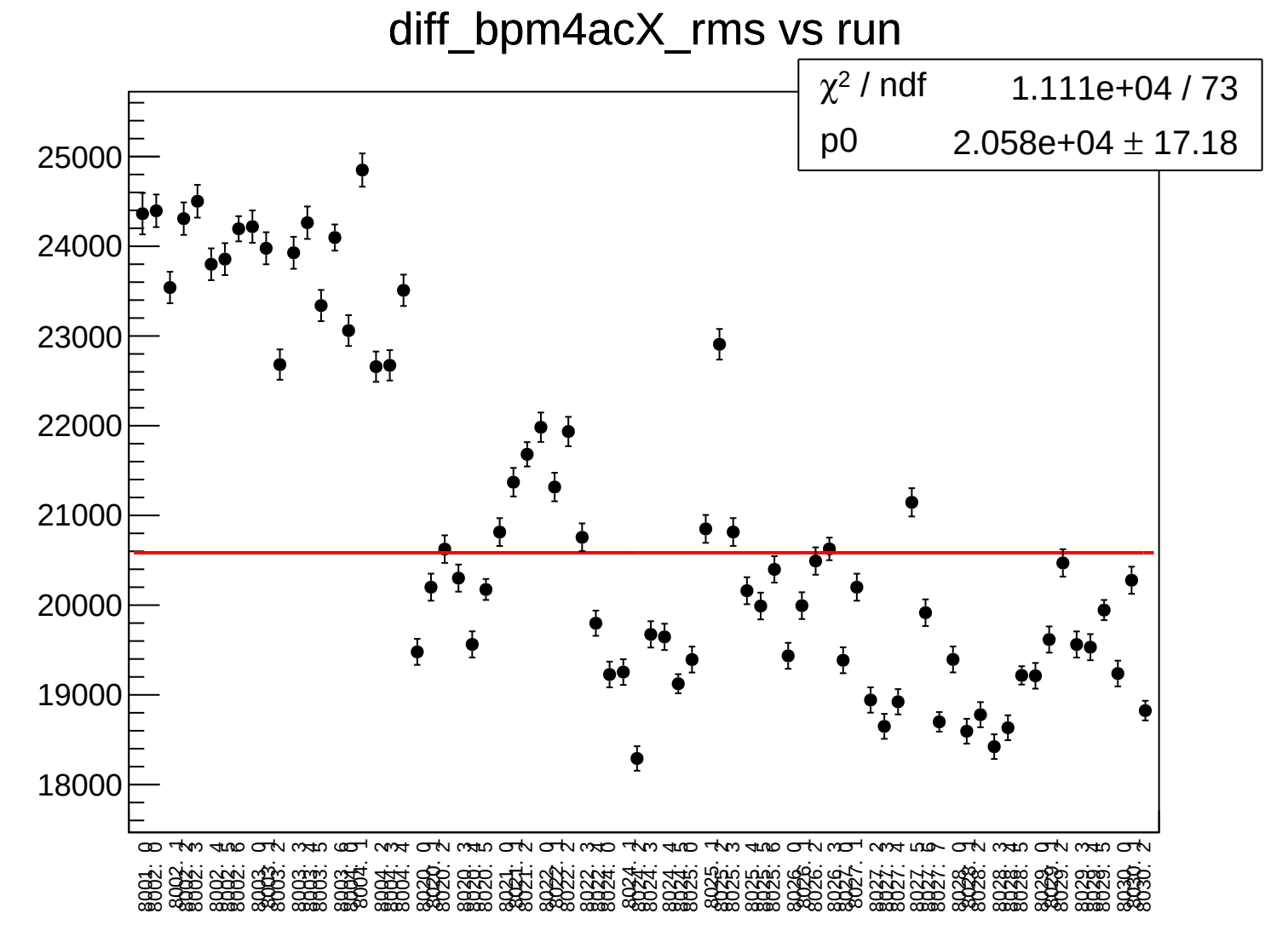

diff_bpm4eY_mean vs run
χ² / ndf 84.43 / 73
p0 −0.7714 ± 6.737
pull
Entries 74
Mean 75.27
Std Dev 45.15

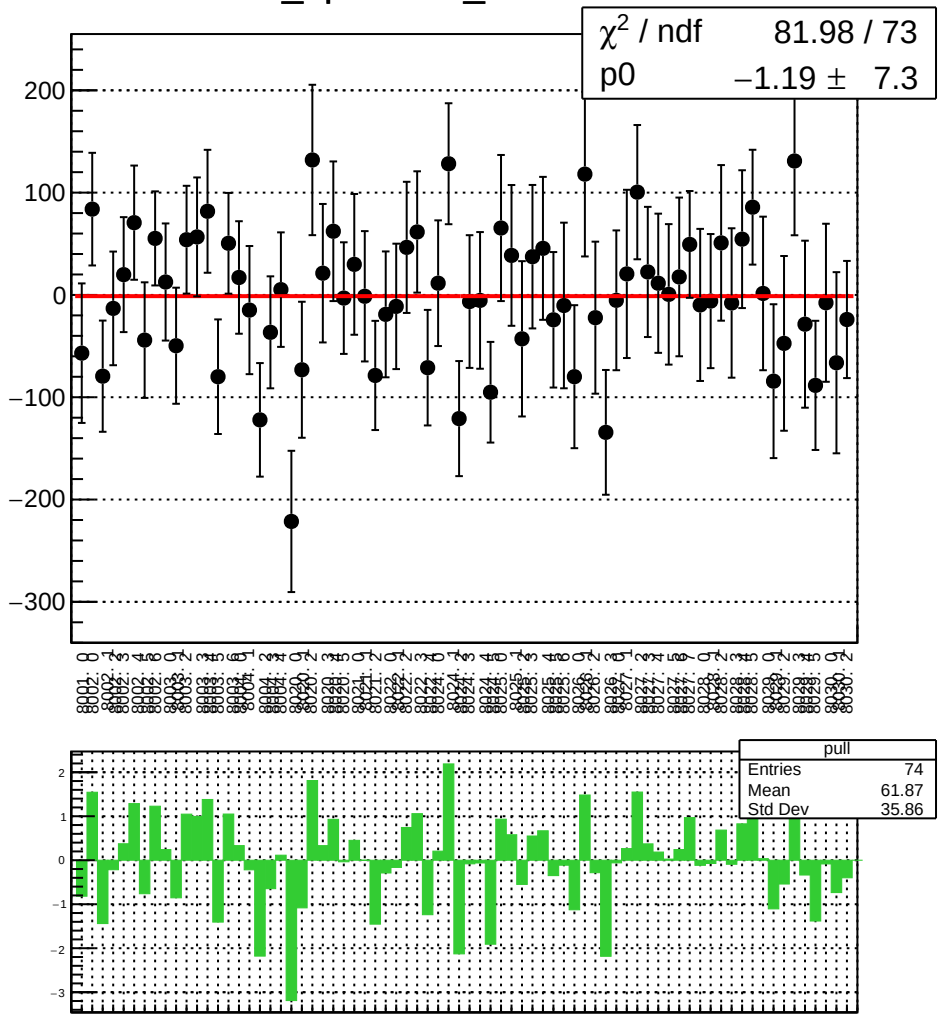

pull1D
Entries 74
Mean 0.0125
Std Dev 1.068

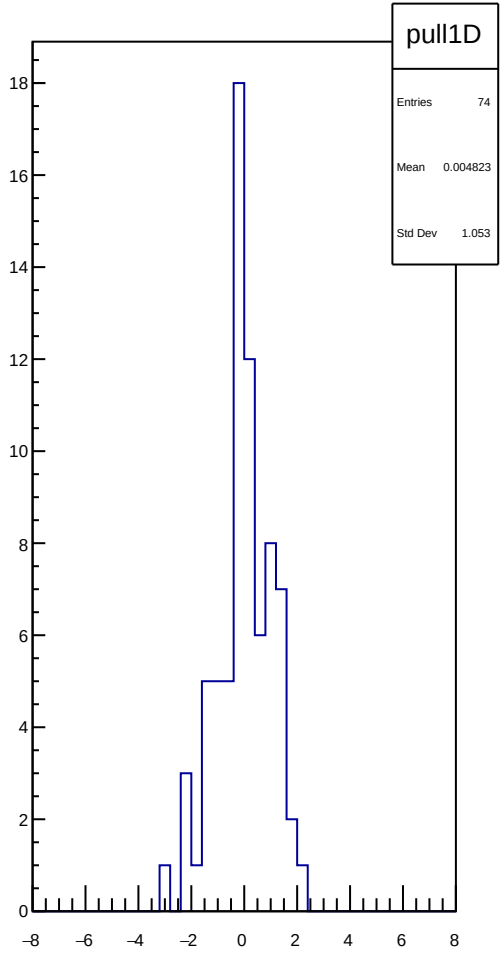

diff_bpm4eY_rms vs run
χ² / ndf 3.382e+04 / 73
p0 5661 ± 4.764
8000
7500
7000
6500
6000
5500
5000
4500
4000

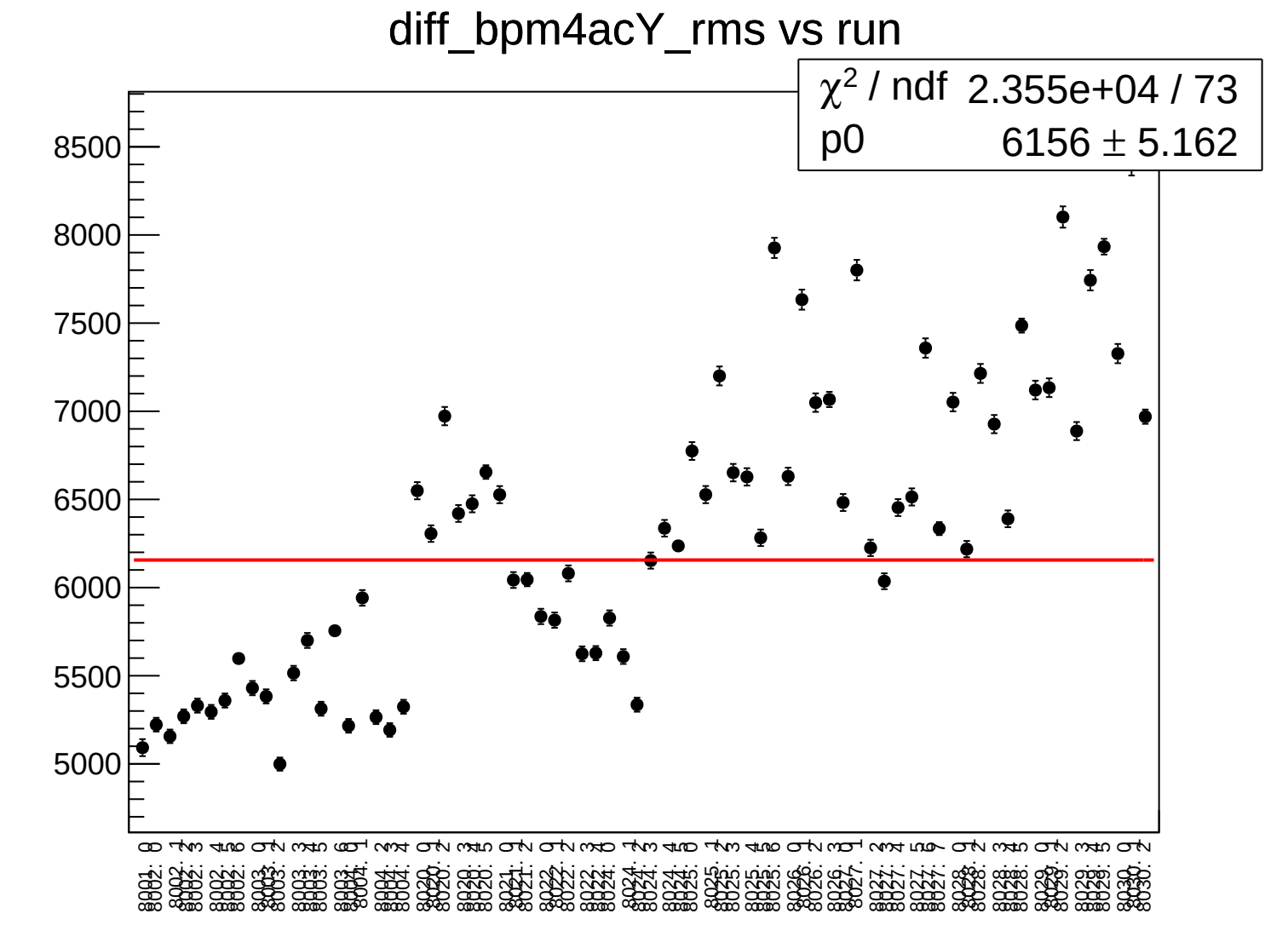

diff_bpm4acX_mean vs run
χ² / ndf 64.05 / 73
p0 11.78 ± 24.3
pull
Entries 74
Mean −294.9
Std Dev 338.8

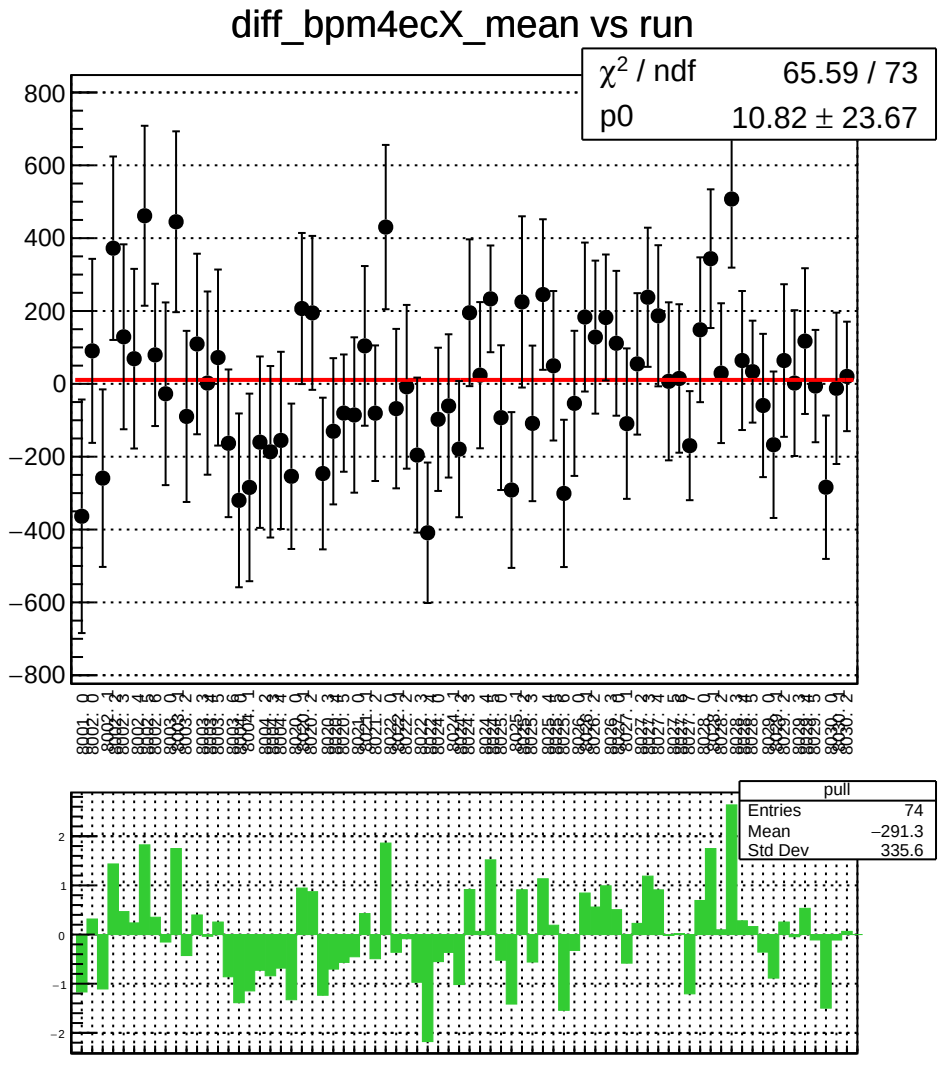

pull1D
Entries 74
Mean −0.005653
Std Dev 0.9304

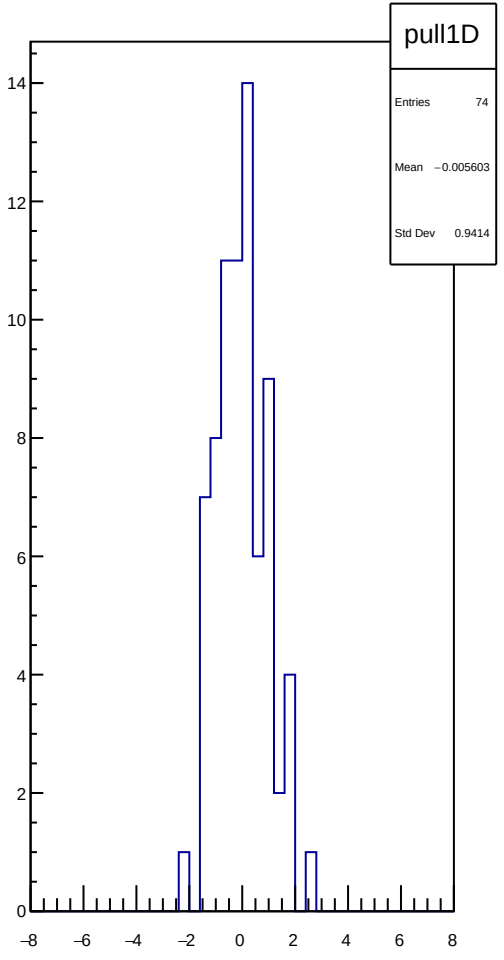

diff_bpm4acX_rms vs run
χ² / ndf 1.111e+04 / 73
p0 2.058e+04 ± 17.18
25000
24000
23000
22000
21000
20000
19000
18000

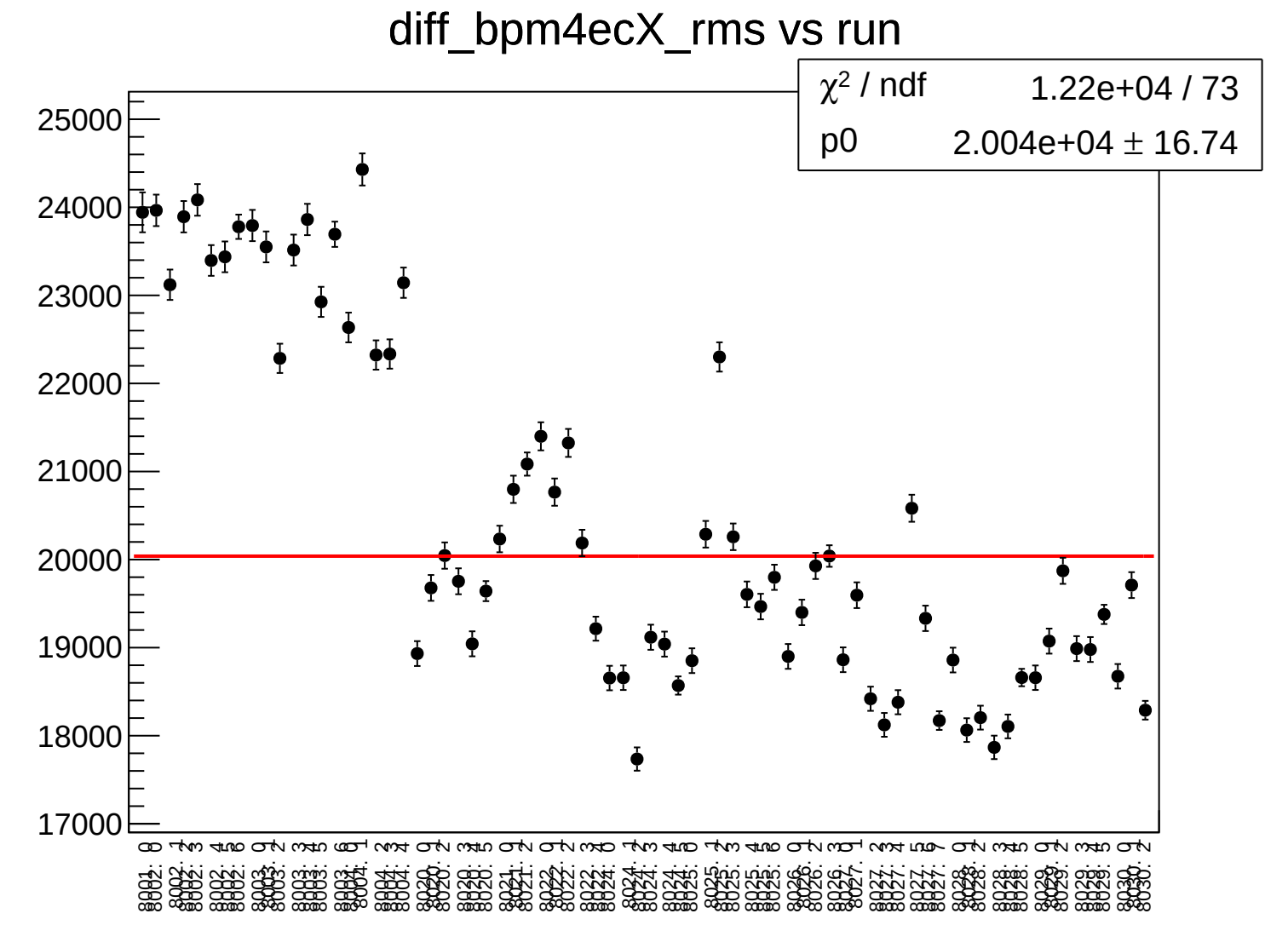

diff_bpm4acY_mean vs run
χ² / ndf 81.98 / 73
p0 −1.19 ± 7.3
pull
Entries 74
Mean 61.87
Std Dev 35.86

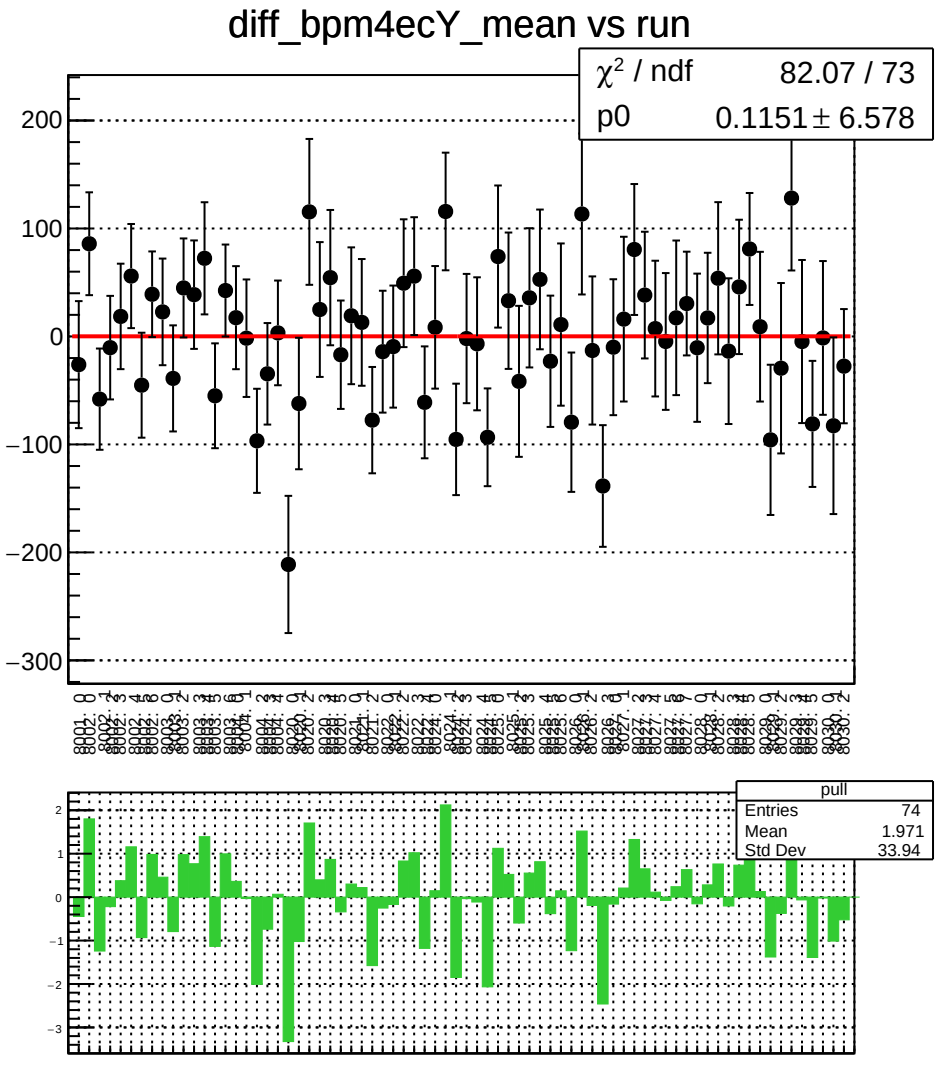

pull1D
Entries 74
Mean 0.004823
Std Dev 1.053

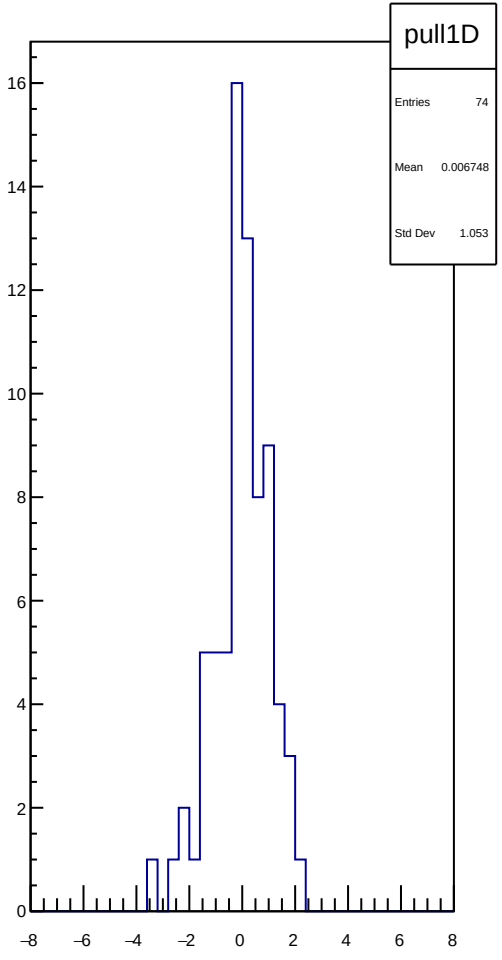

diff_bpm4acY_rms vs run
χ^2 / ndf 2.355e+04 / 73
p0 6156 ± 5.162
8500
8000
7500
7000
6500
6000
5500
5000

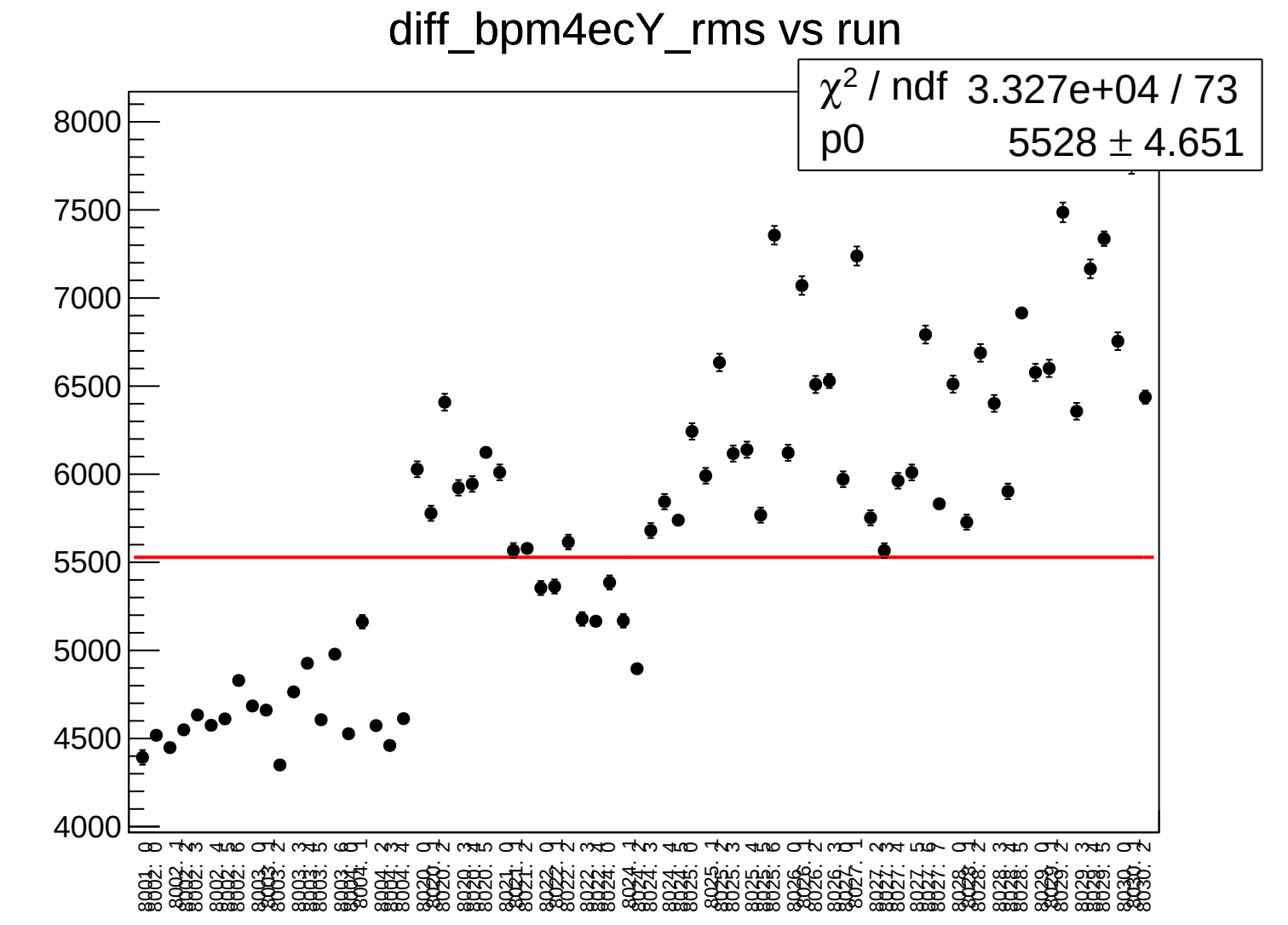

diff_bpm4ecX_mean vs run
χ² / ndf 65.59 / 73
p0 10.82 ± 23.67
pull
Entries 74
Mean −291.3
Std Dev 335.6

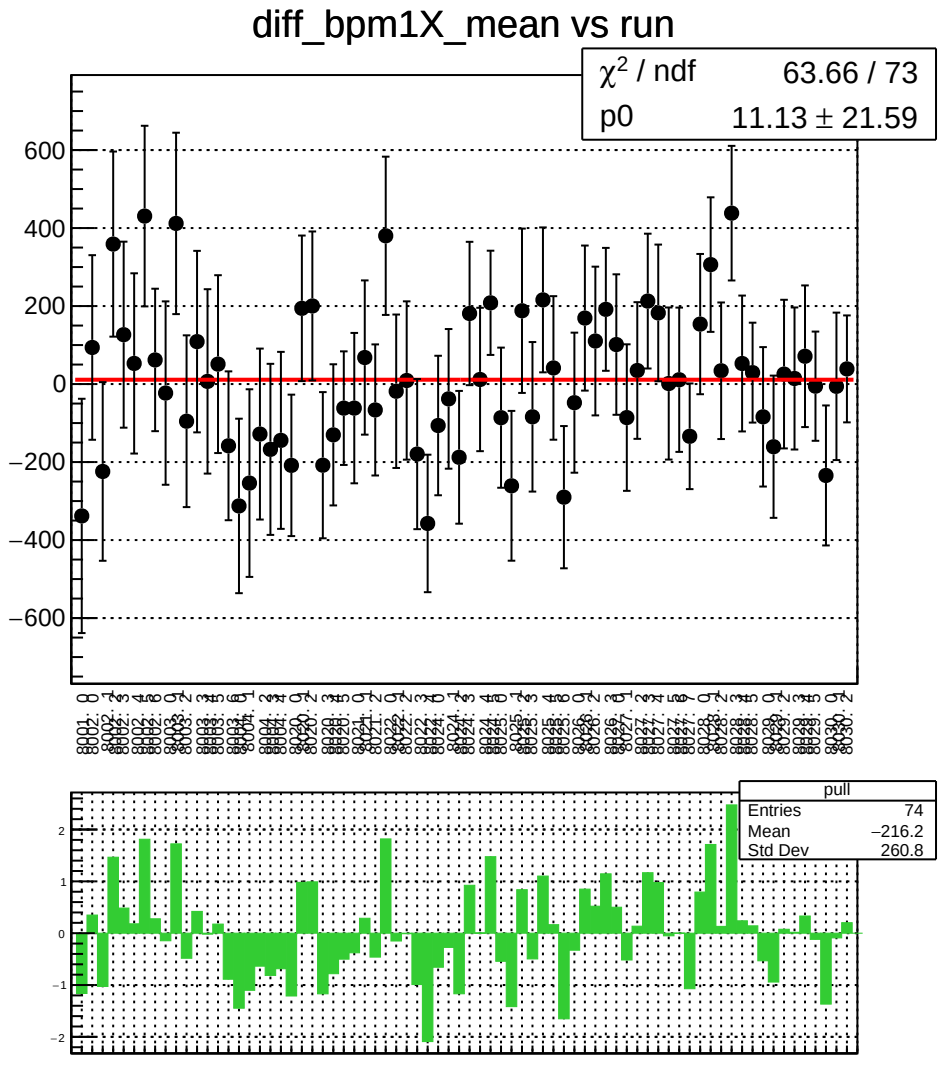

pull1D
Entries 74
Mean −0.005603
Std Dev 0.9414

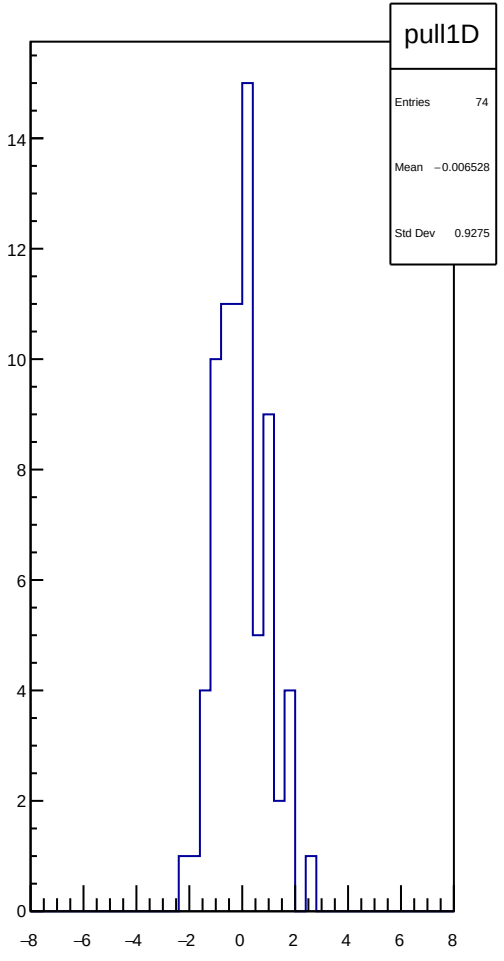

diff_bpm4ecX_rms vs run
χ² / ndf 1.22e+04 / 73
p0 2.004e+04 ± 16.74
25000
24000
23000
22000
21000
20000
19000
18000
17000

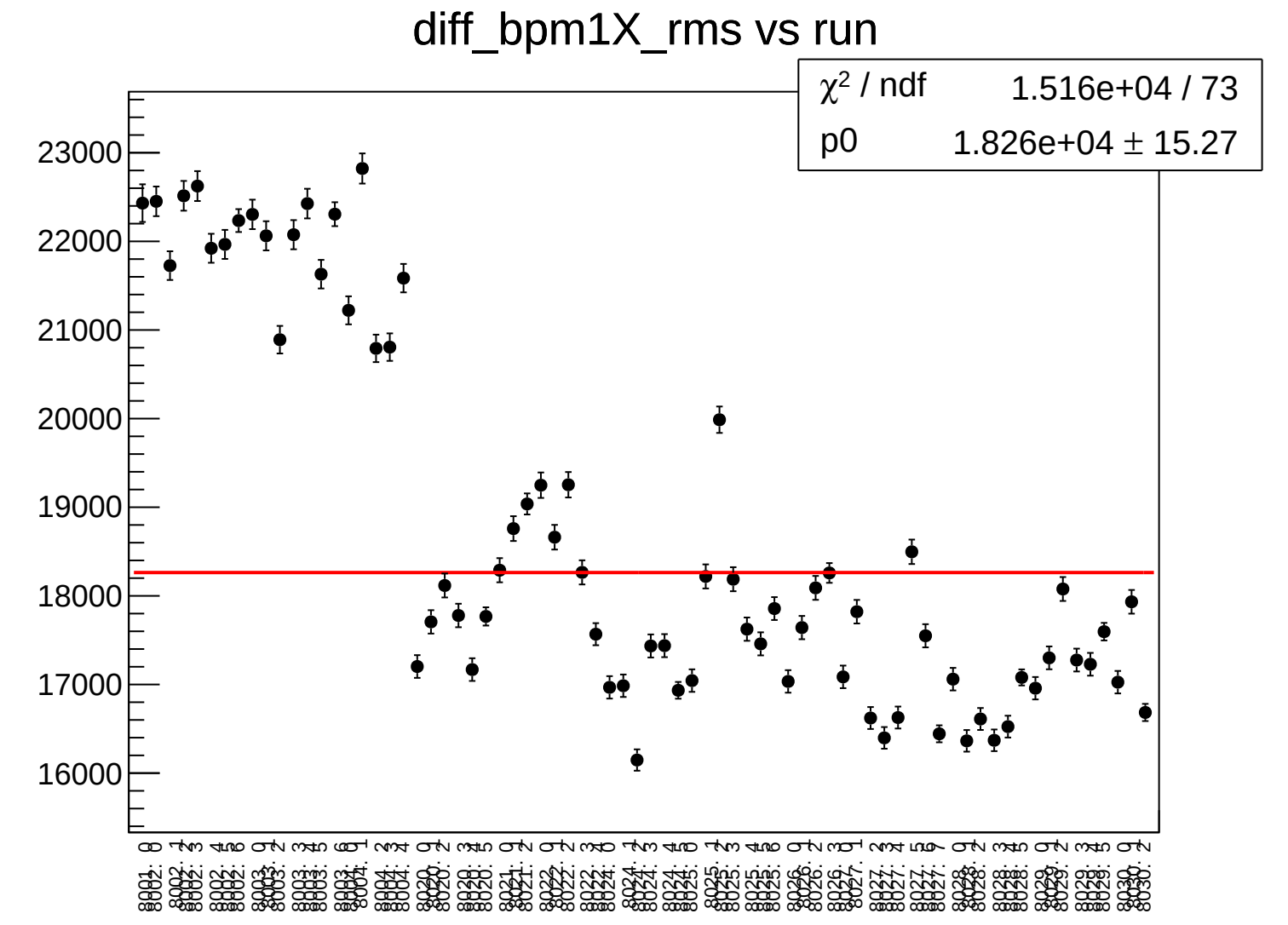

diff_bpm4ecY_mean vs run
χ² / ndf 82.07 / 73
p0 0.1151 ± 6.578
pull
Entries 74
Mean 1.971
Std Dev 33.94

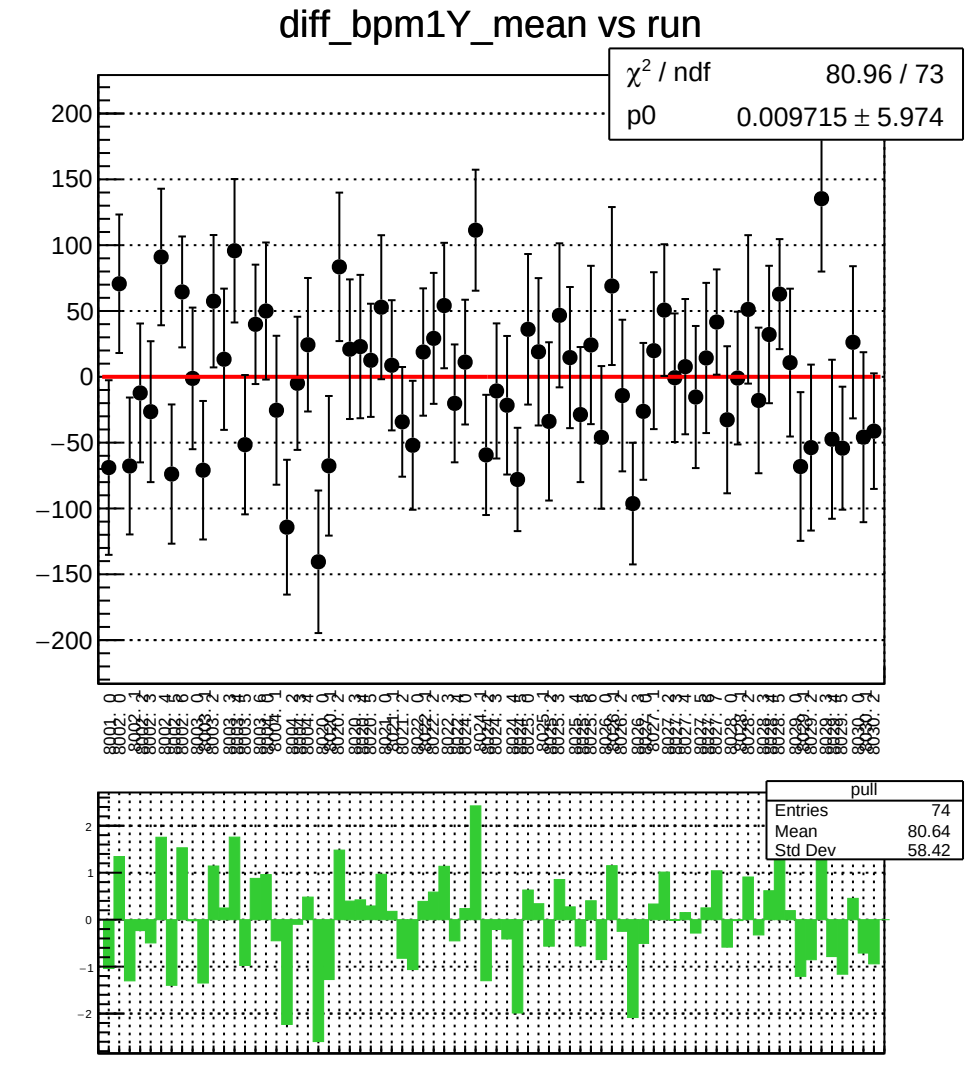

pull1D
Entries 74
Mean 0.006748
Std Dev 1.053

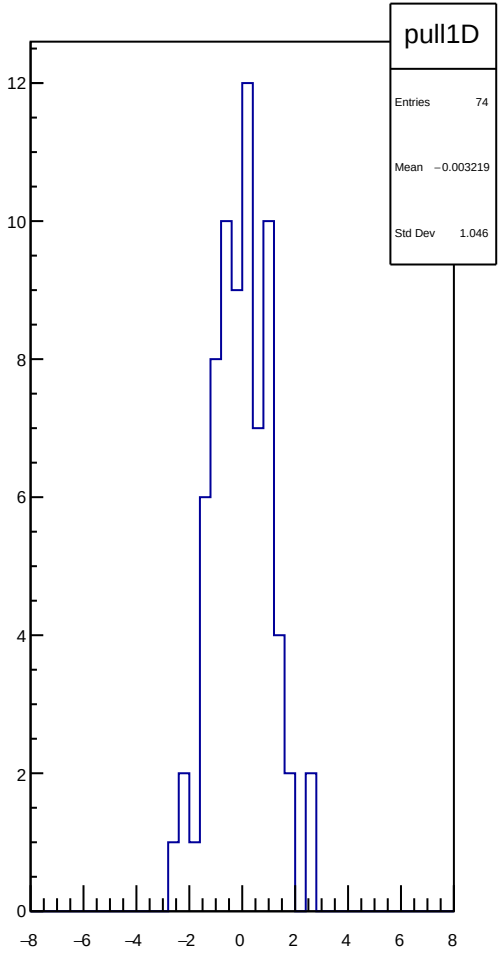

diff_bpm4ecY_rms vs run
χ² / ndf 3.327e+04 / 73
p0 5528 ± 4.651
8000
7500
7000
6500
6000
5500
5000
4500
4000

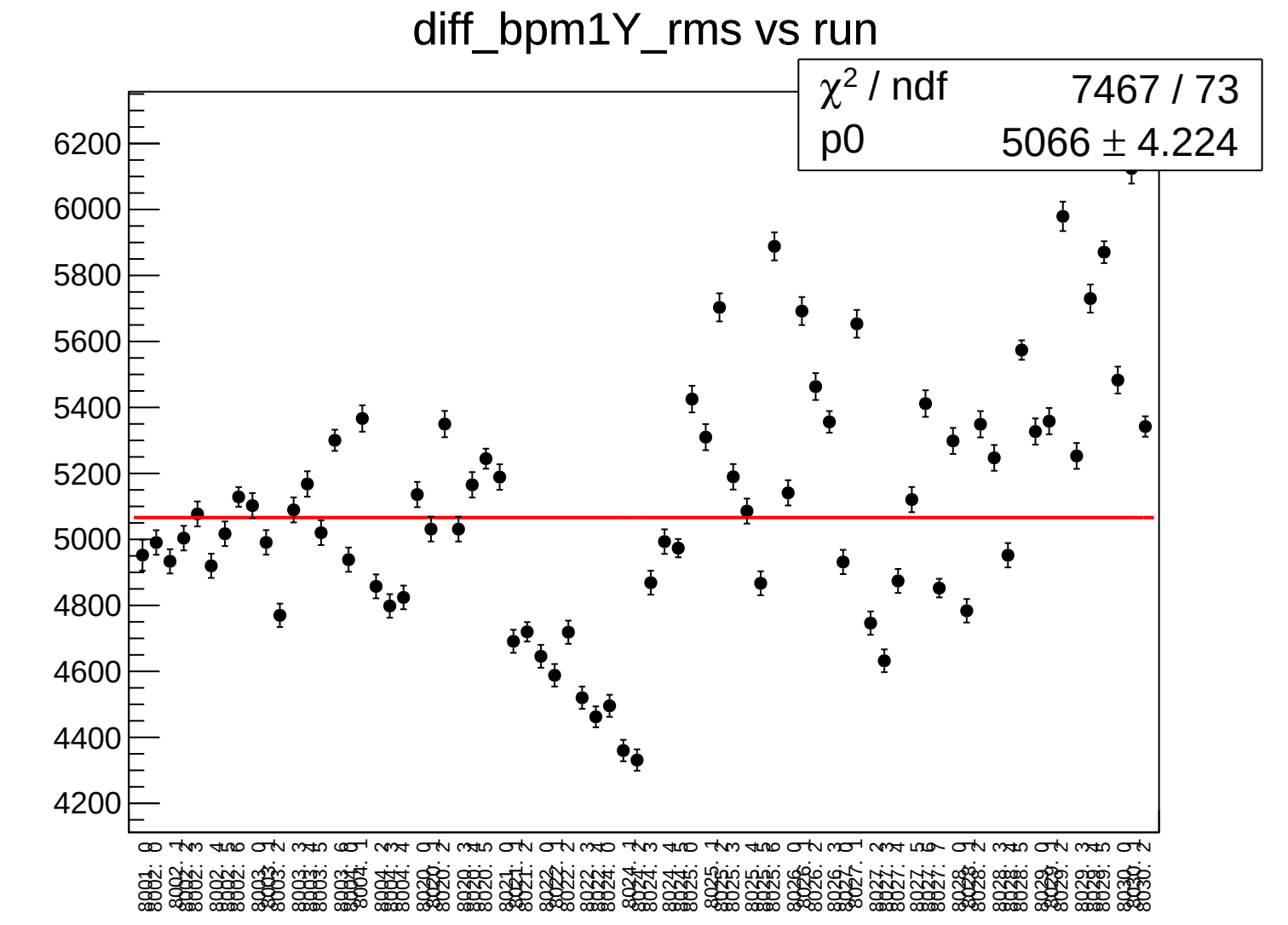

diff_bpm1X_mean vs run
χ^2 / ndf 63.66 / 73
p0 11.13 ± 21.59
pull
Entries 74
Mean −216.2
Std Dev 260.8

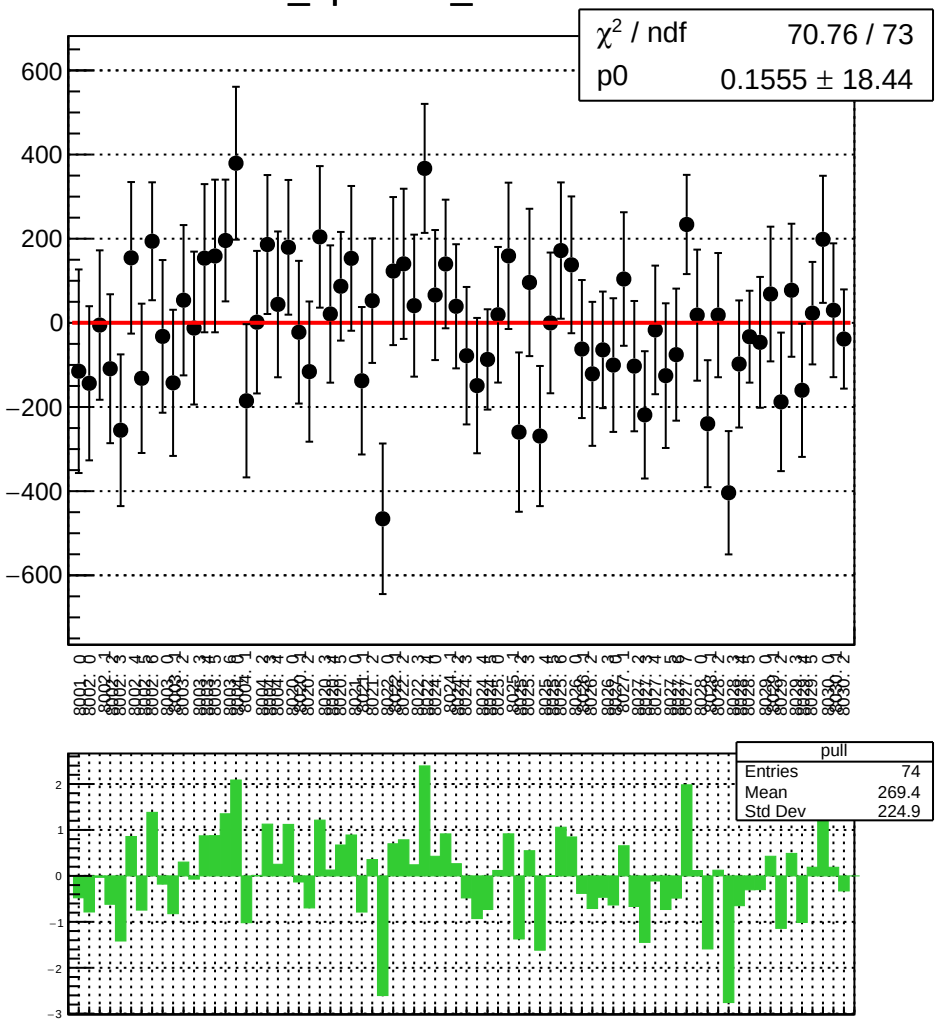

pull1D
Entries 74
Mean −0.006528
Std Dev 0.9275

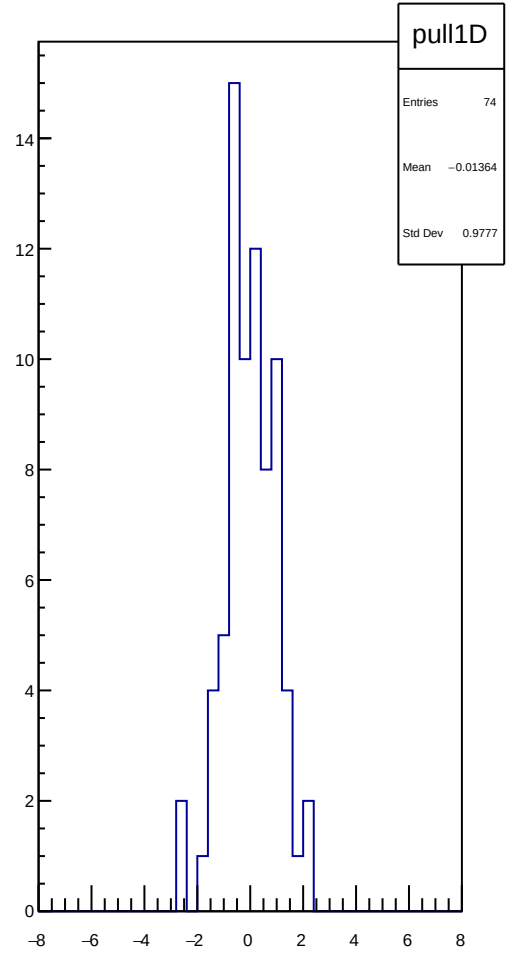

diff_bpm1X_rms vs run
χ² / ndf 1.516e+04 / 73
p0 1.826e+04 ± 15.27
23000
22000
21000
20000
19000
18000
17000
16000

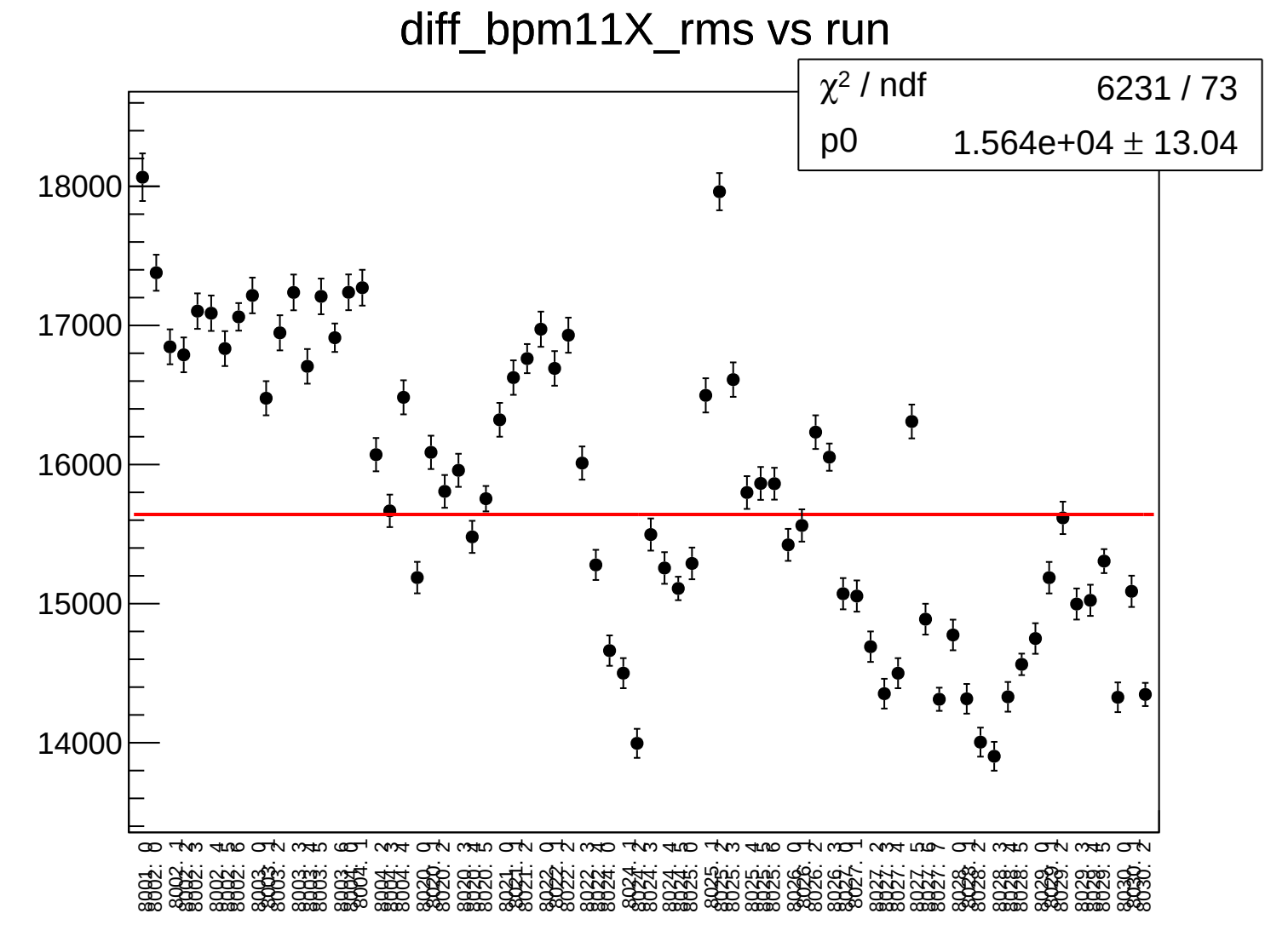

diff_bpm1Y_mean vs run
χ² / ndf 80.96 / 73
p0 0.009715 ± 5.974
pull
Entries 74
Mean 80.64
Std Dev 58.42

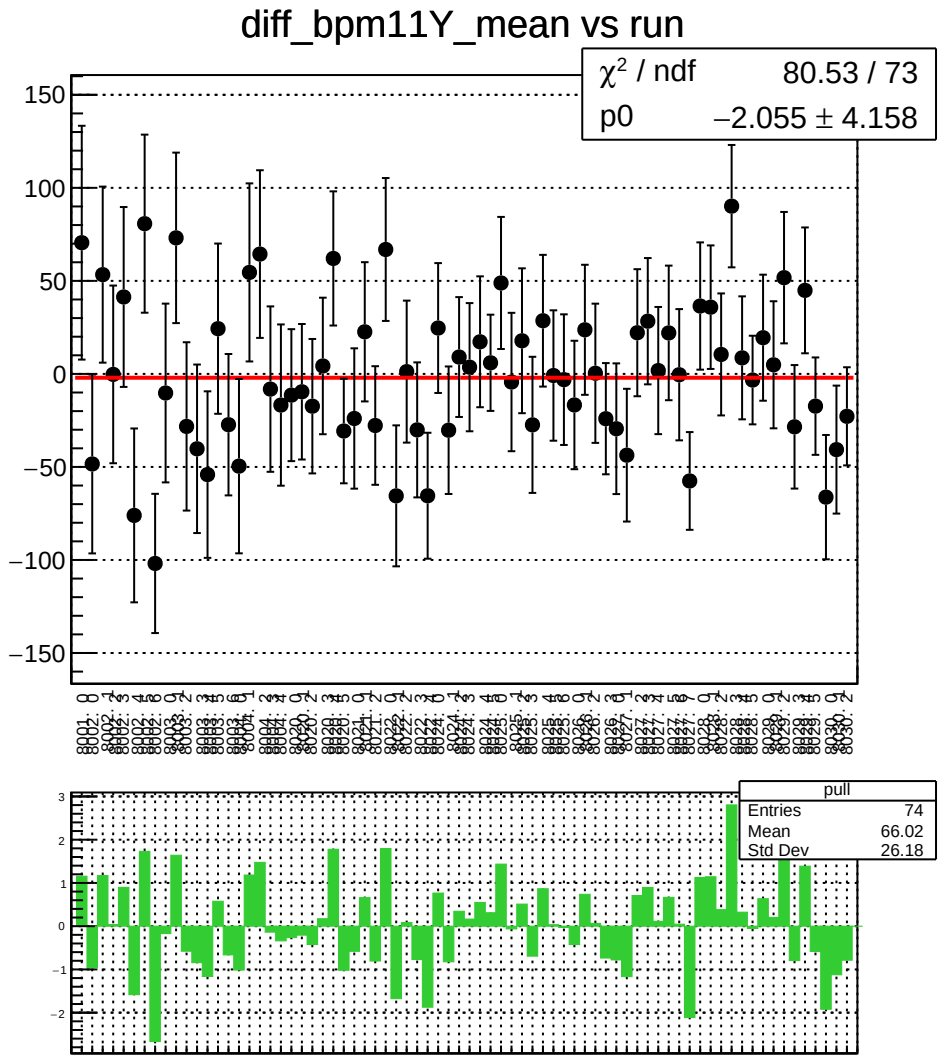

pull1D
Entries 74
Mean −0.003219
Std Dev 1.046

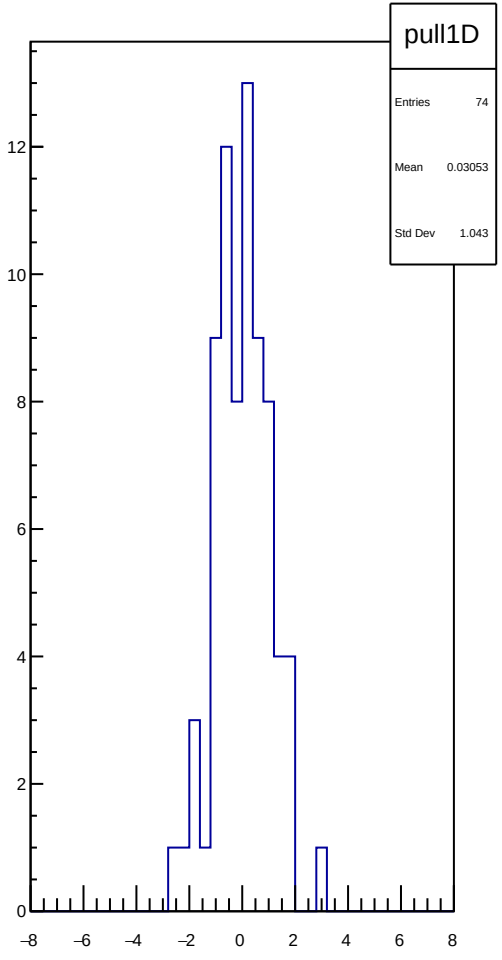

diff_bpm1Y_rms vs run
χ^2 / ndf 7467 / 73
p0 5066 ± 4.224
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

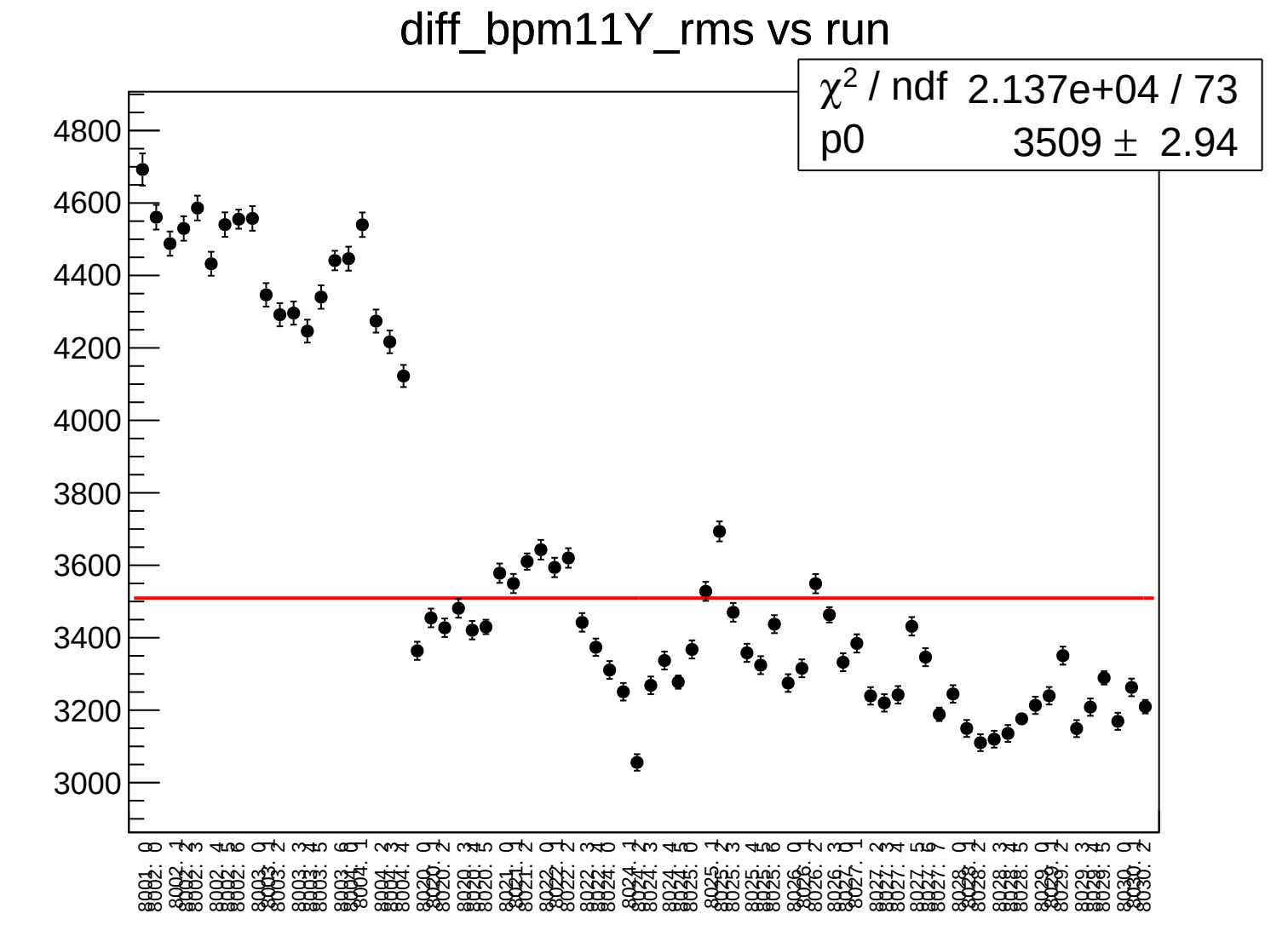

diff_bpm11X_mean vs run
χ^2 / ndf 70.76 / 73
p0 0.1555 ± 18.44
pull
Entries 74
Mean 269.4
Std Dev 224.9

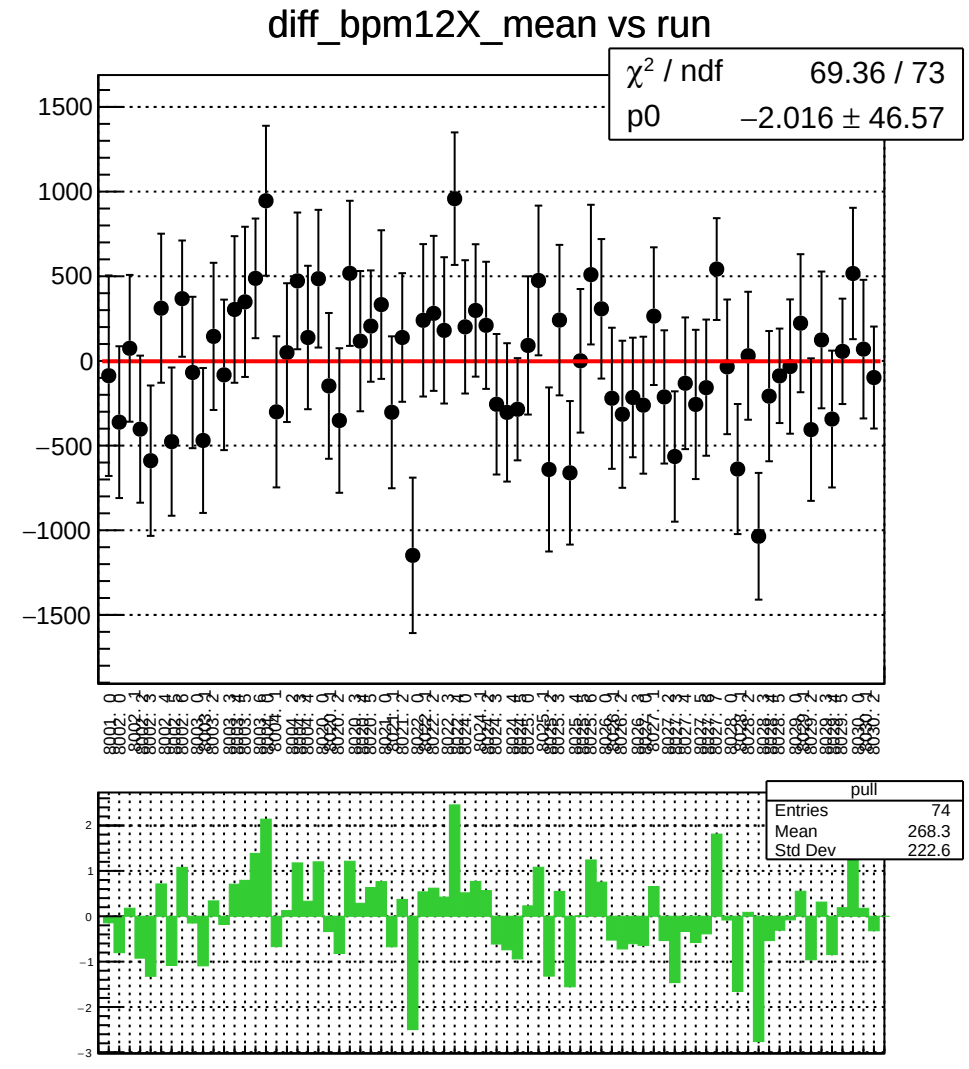

pull1D
Entries 74
Mean −0.01364
Std Dev 0.9777

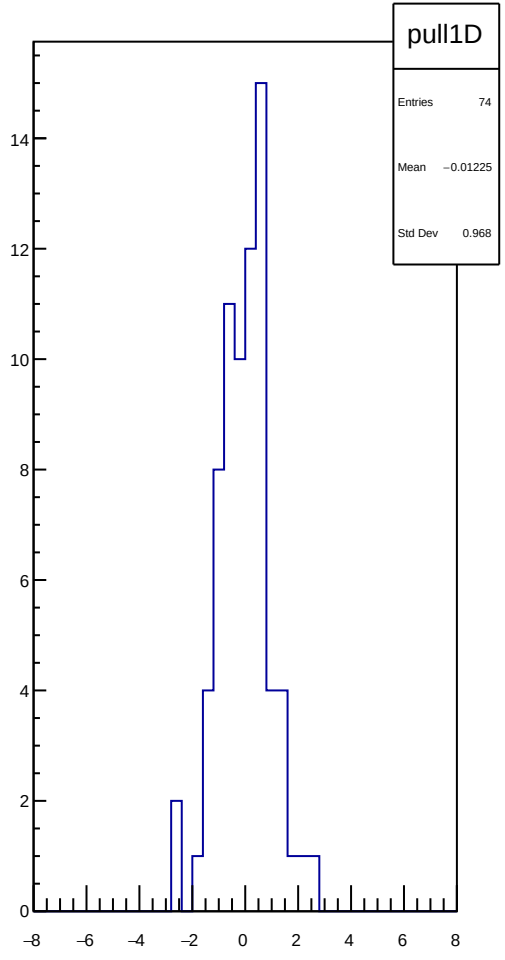

diff_bpm11X_rms vs run
χ² / ndf 6231 / 73
p0 1.564e+04 ± 13.04
18000
17000
16000
15000
14000

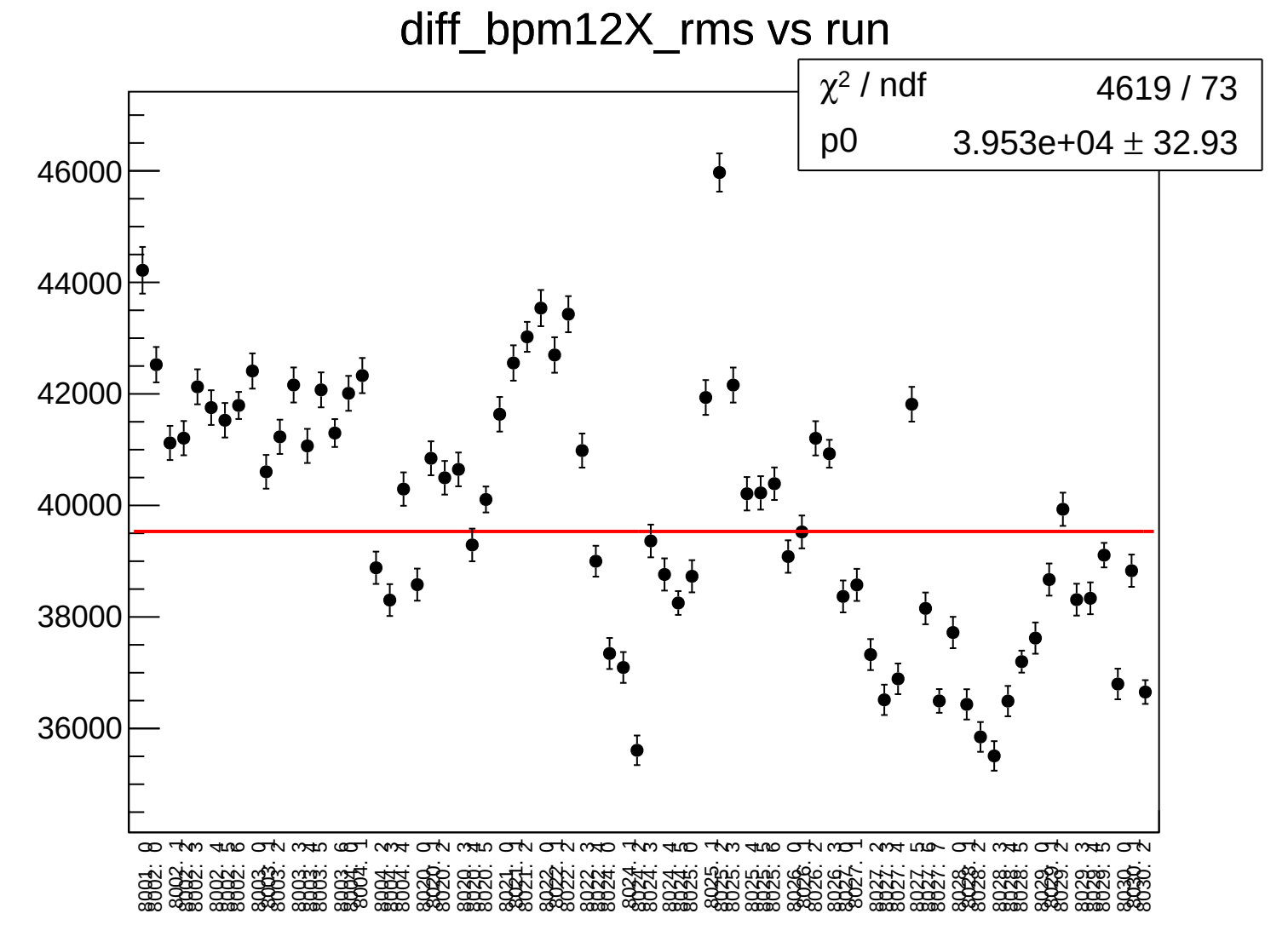

diff_bpm11Y_mean vs run
χ² / ndf 80.53 / 73
p0 −2.055 ± 4.158
150
100
50
0
−50
−100
−150
pull
Entries 74
Mean 66.02
Std Dev 26.18
3
2
1
0
−1
−2

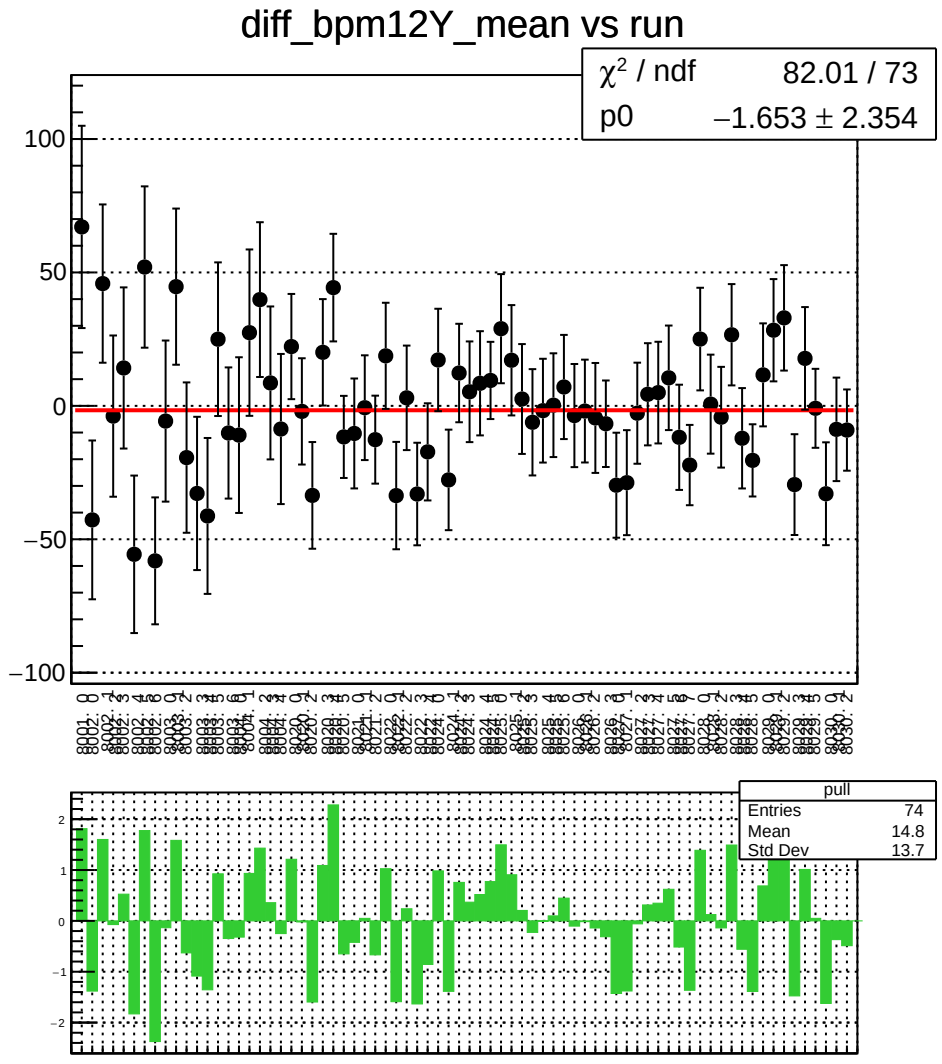

pull1D
Entries 74
Mean 0.03053
Std Dev 1.043
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

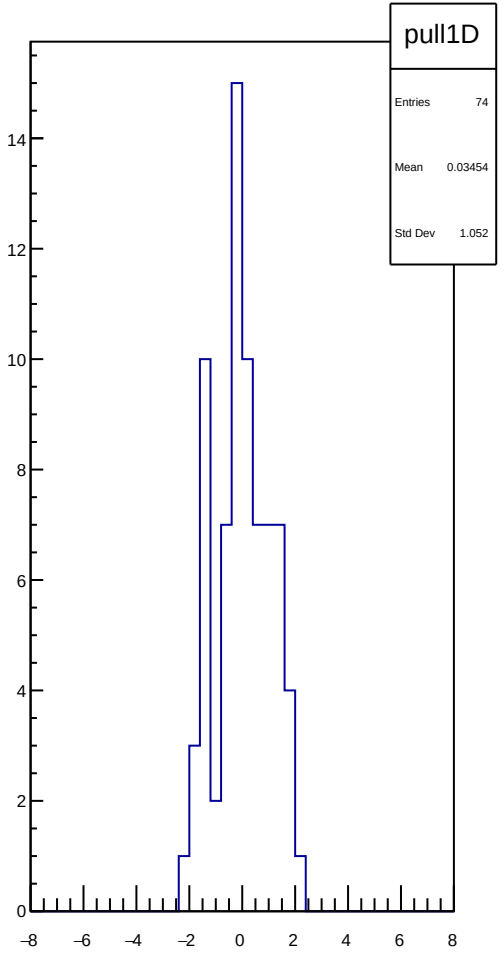

diff_bpm11Y_rms vs run
χ² / ndf 2.137e+04 / 73
p0 3509 ± 2.94
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

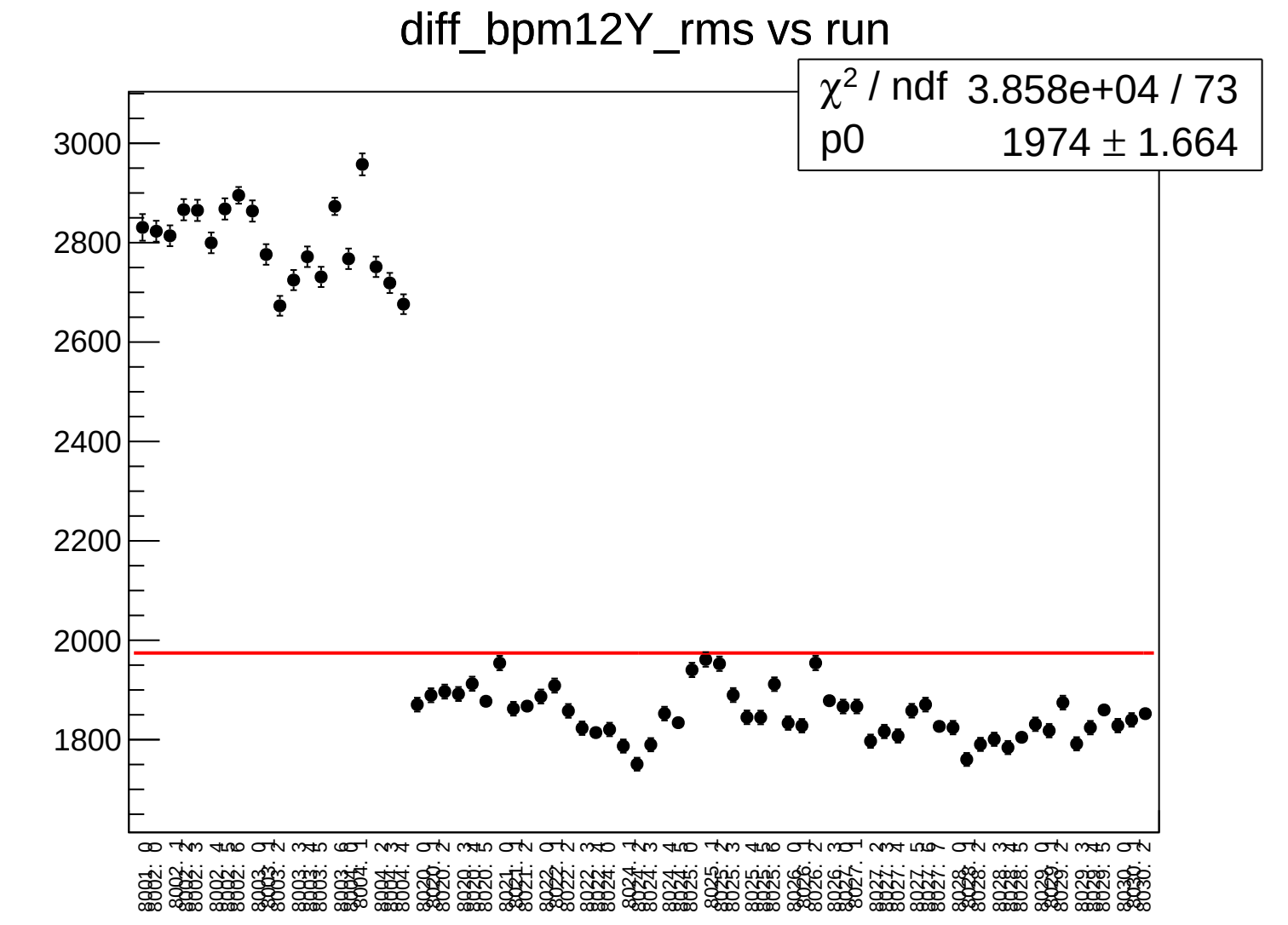

diff_bpm12X_mean vs run
χ^2 / ndf 69.36 / 73
p0 −2.016 ± 46.57
1500
1000
500
0
−500
−1000
−1500
pull
Entries 74
Mean 268.3
Std Dev 222.6
2
1
0
−1
−2
−3

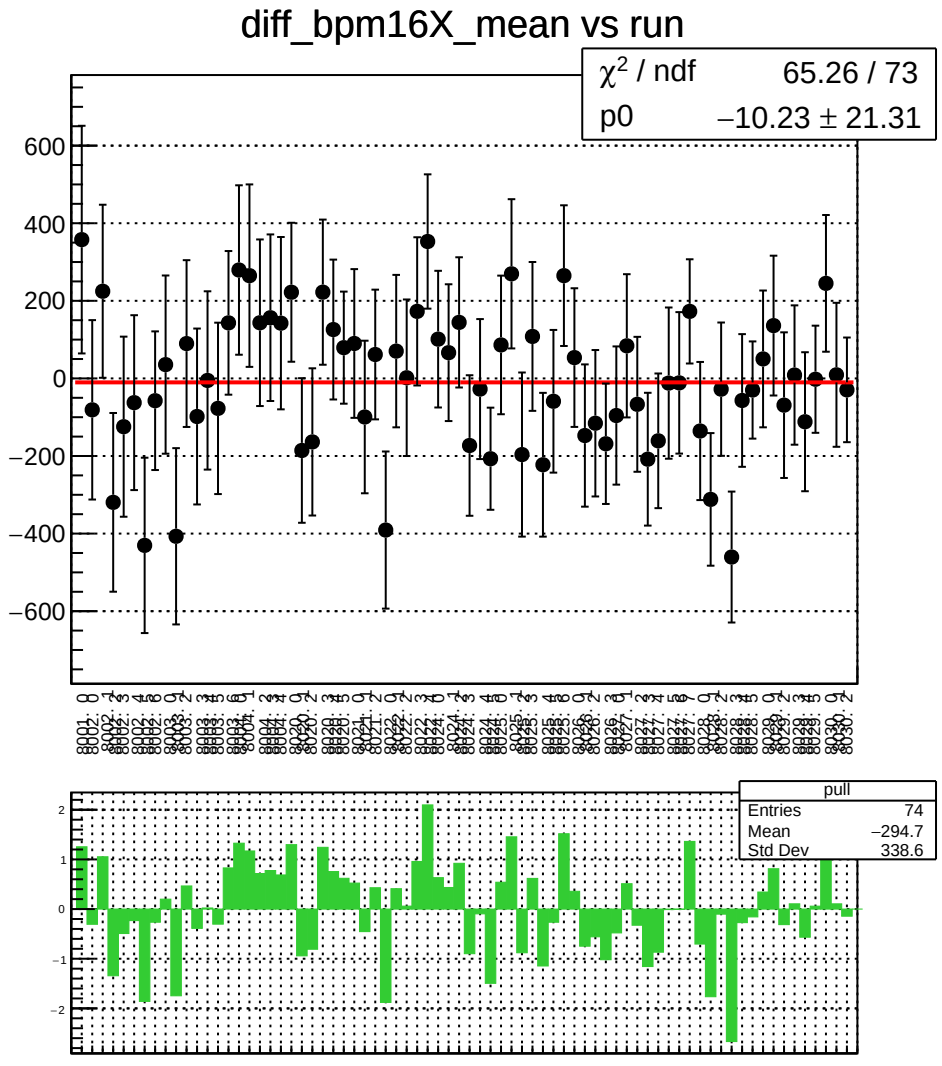

pull1D
Entries 74
Mean −0.01225
Std Dev 0.968
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

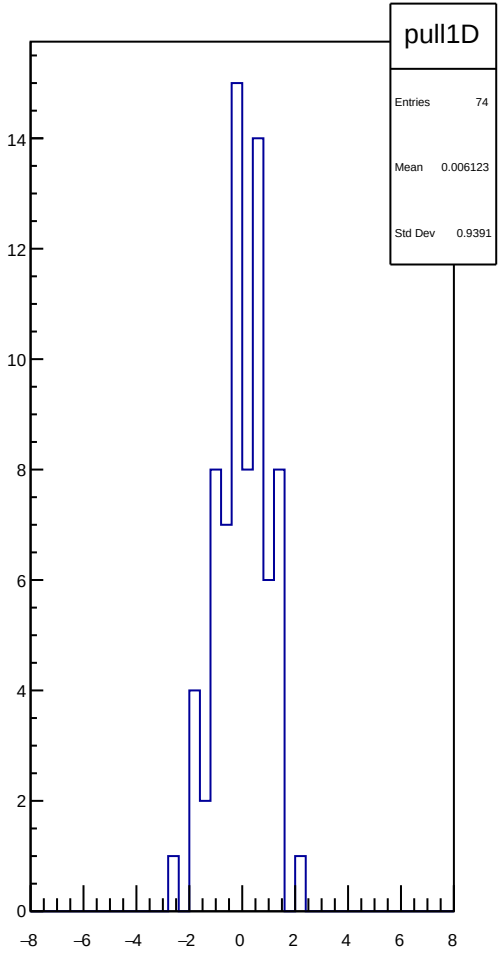

diff_bpm12X_rms vs run
χ² / ndf 4619 / 73
p0 3.953e+04 ± 32.93
46000
44000
42000
40000
38000
36000

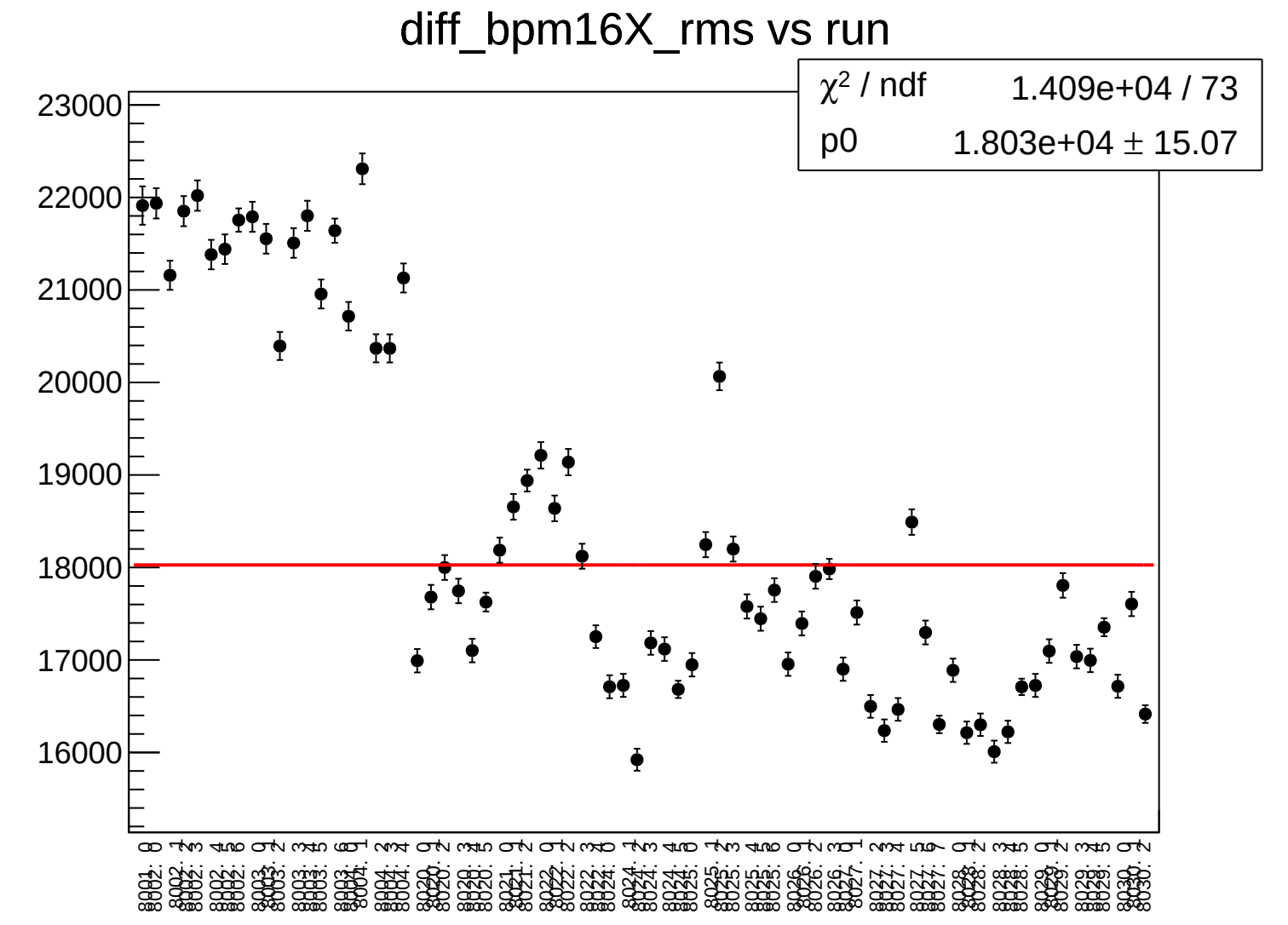

diff_bpm12Y_mean vs run
χ² / ndf 82.01 / 73
p0 −1.653 ± 2.354
pull
Entries 74
Mean 14.8
Std Dev 13.7

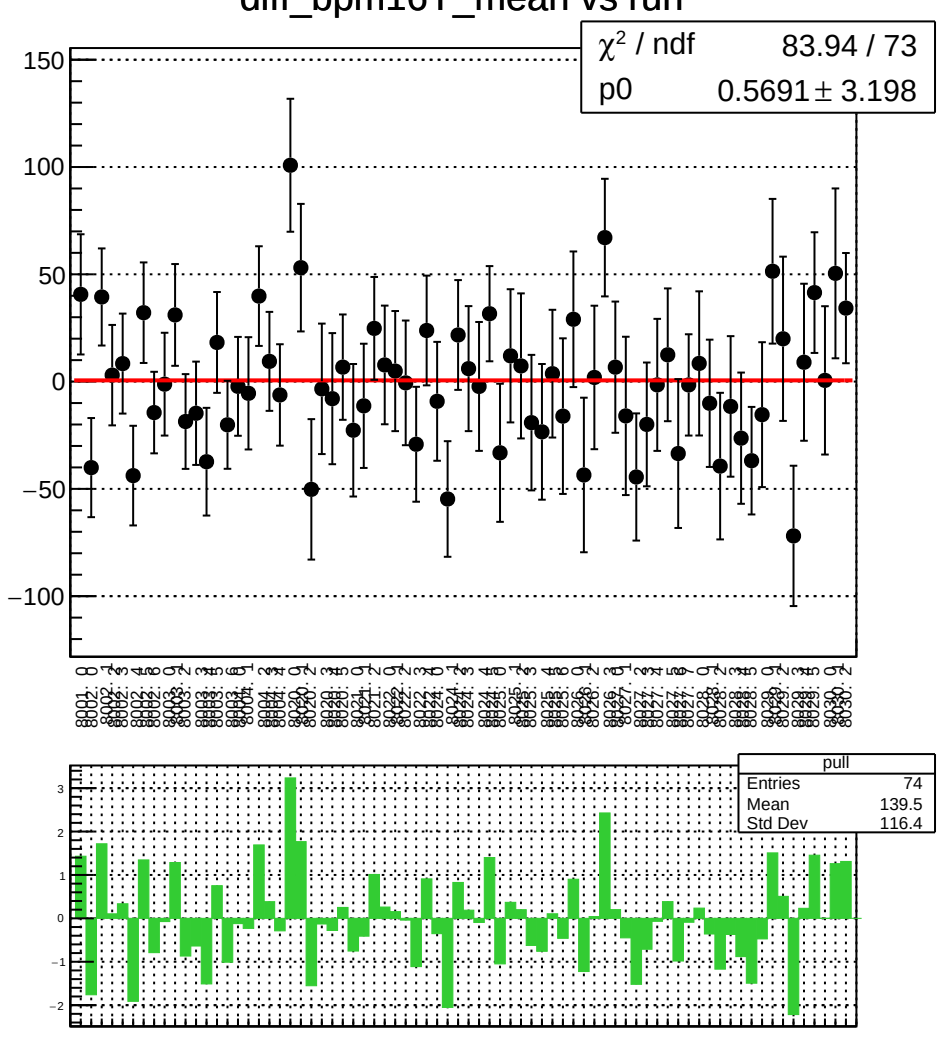

pull1D
Entries 74
Mean 0.03454
Std Dev 1.052

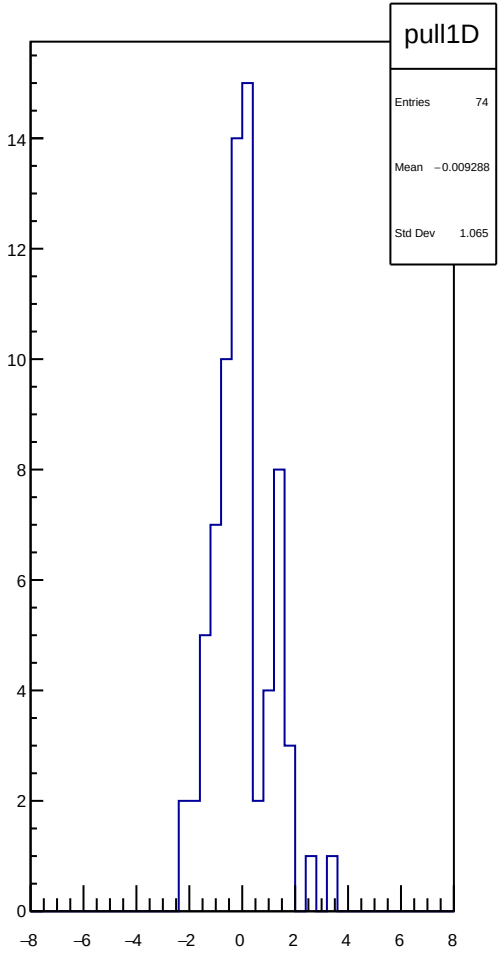

diff_bpm12Y_rms vs run
χ² / ndf 3.858e+04 / 73
p0 1974 ± 1.664
3000
2800
2600
2400
2200
2000
1800

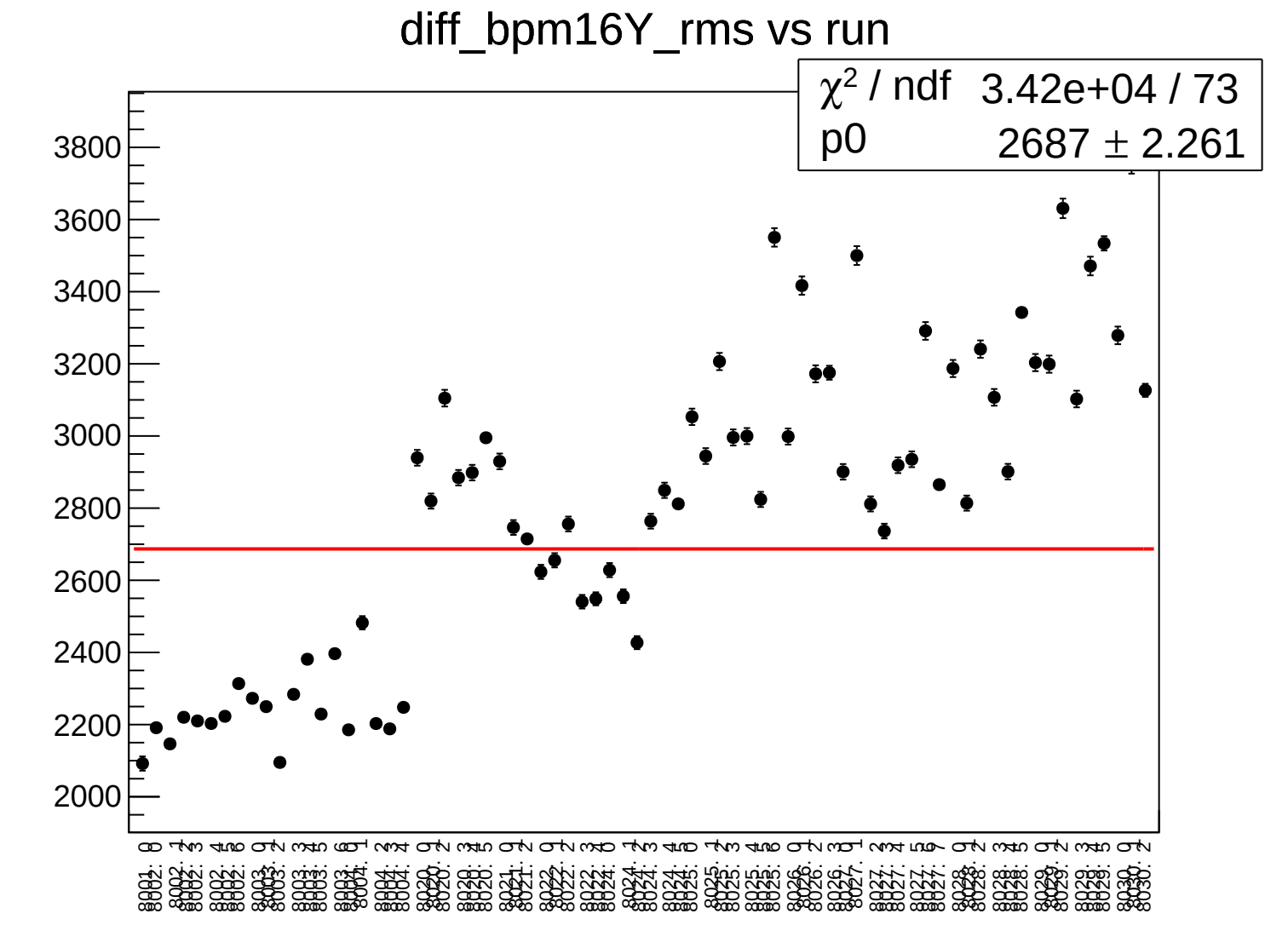

diff_bpm16X_mean vs run
χ² / ndf 65.26 / 73
p0 −10.23 ± 21.31
600
400
200
0
−200
−400
−600
pull
Entries 74
Mean −294.7
Std Dev 338.6
2
1
0
−1
−2

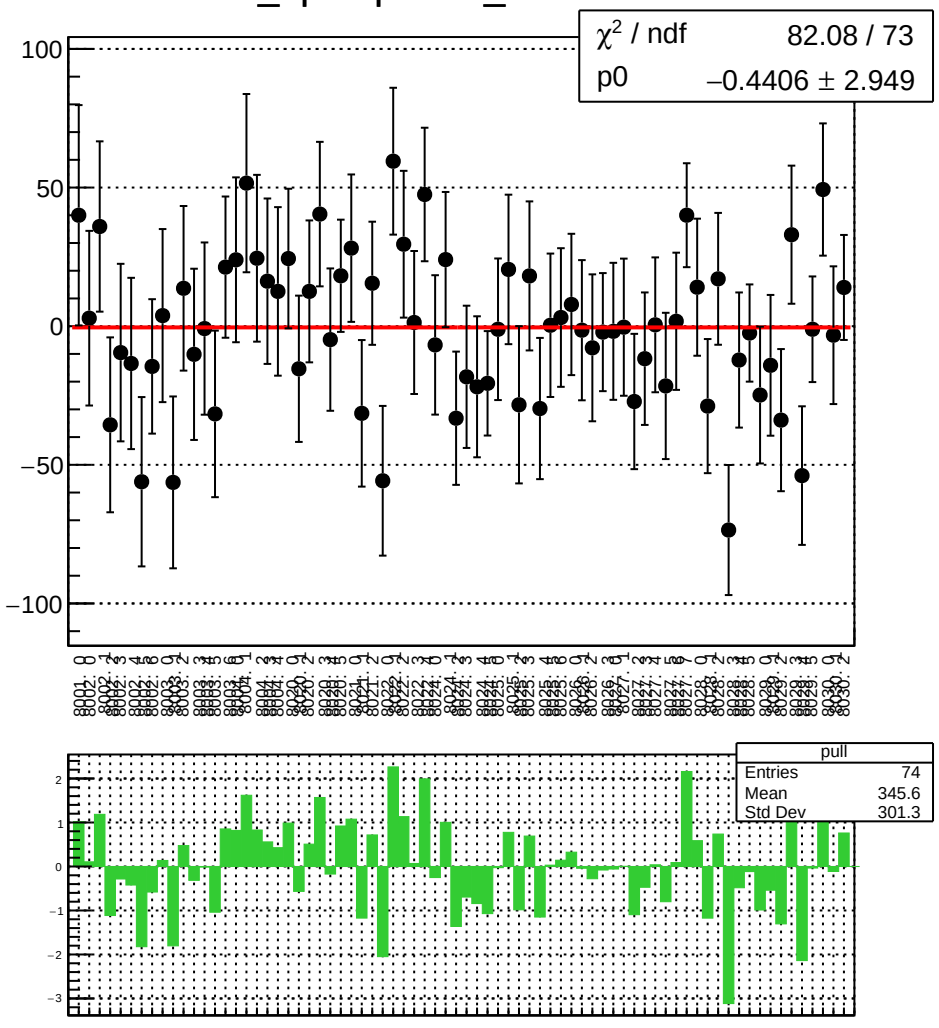

pull1D
Entries 74
Mean 0.006123
Std Dev 0.9391
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

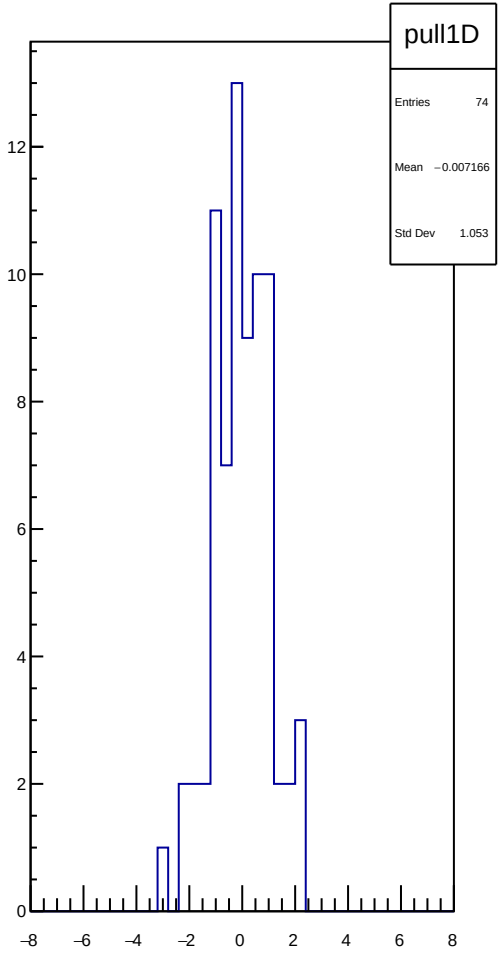

diff_bpm16X_rms vs run
χ² / ndf 1.409e+04 / 73
p0 1.803e+04 ± 15.07
23000
22000
21000
20000
19000
18000
17000
16000

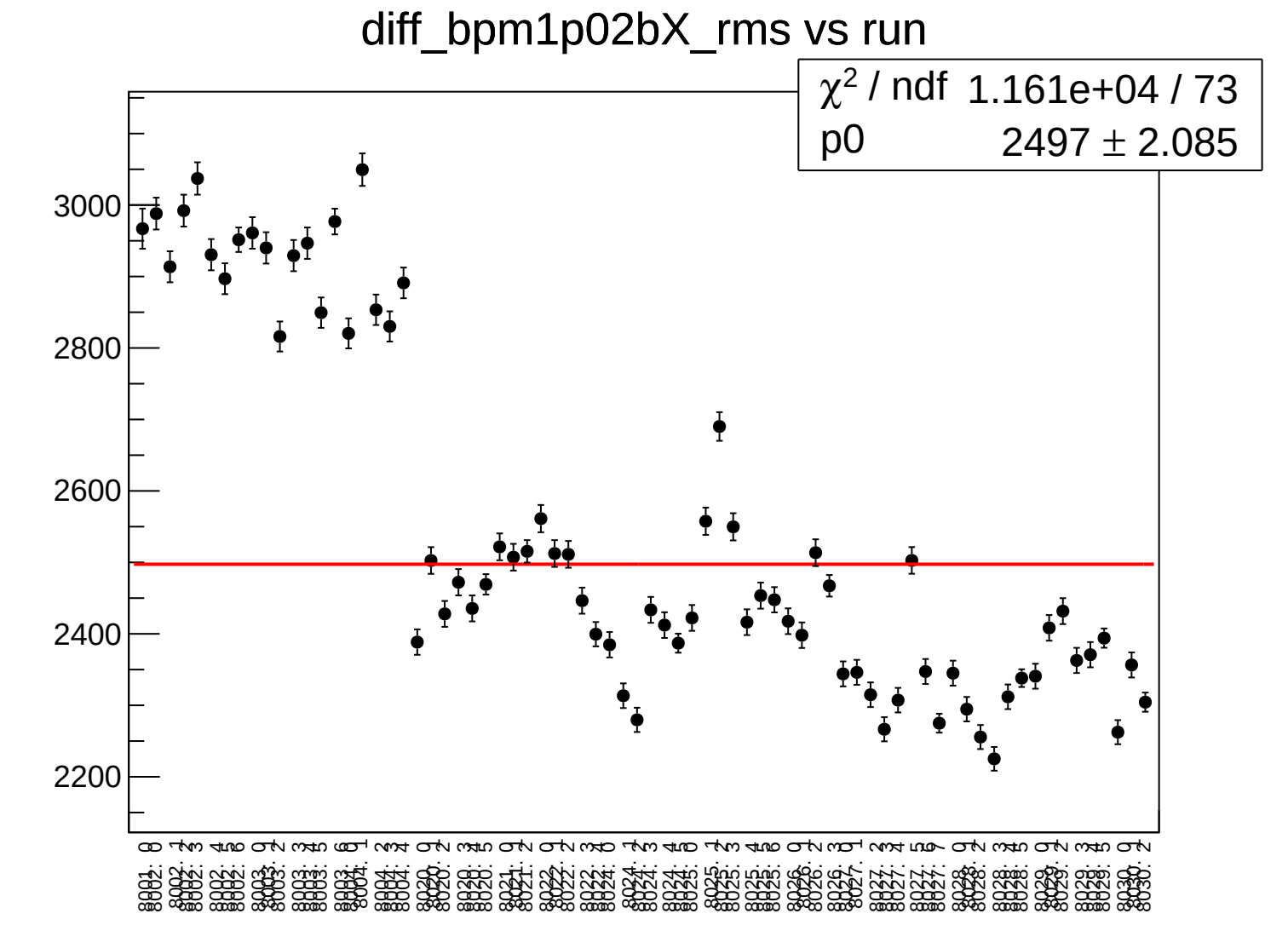

diff_bpm16Y_mean vs run
χ² / ndf 83.94 / 73
p0 0.5691 ± 3.198
pull
Entries 74
Mean 139.5
Std Dev 116.4

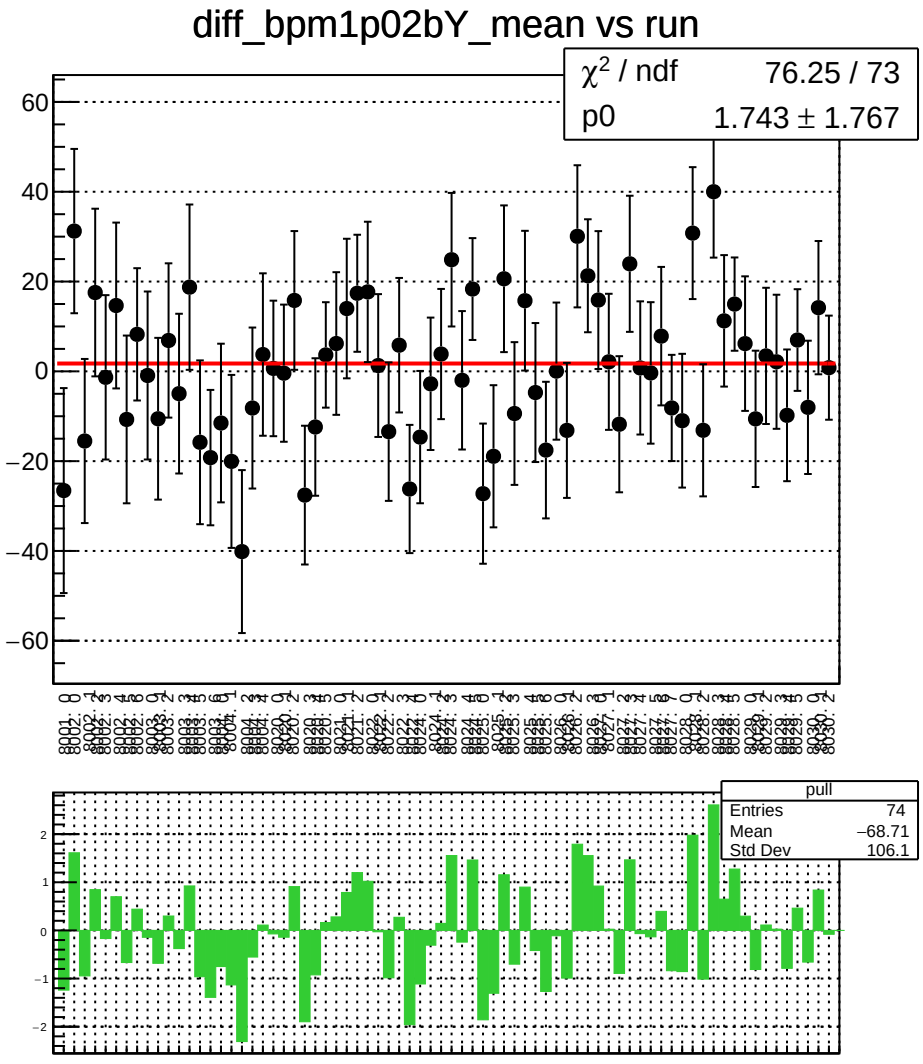

pull1D
Entries 74
Mean −0.009288
Std Dev 1.065

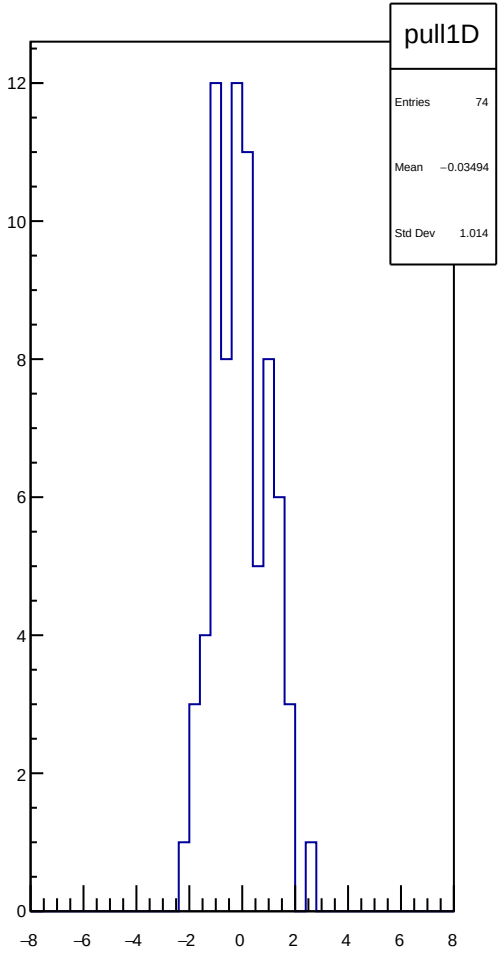

diff_bpm16Y_rms vs run
χ² / ndf 3.42e+04 / 73
p0 2687 ± 2.261
3800
3600
3400
3200
3000
2800
2600
2400
2200
2000

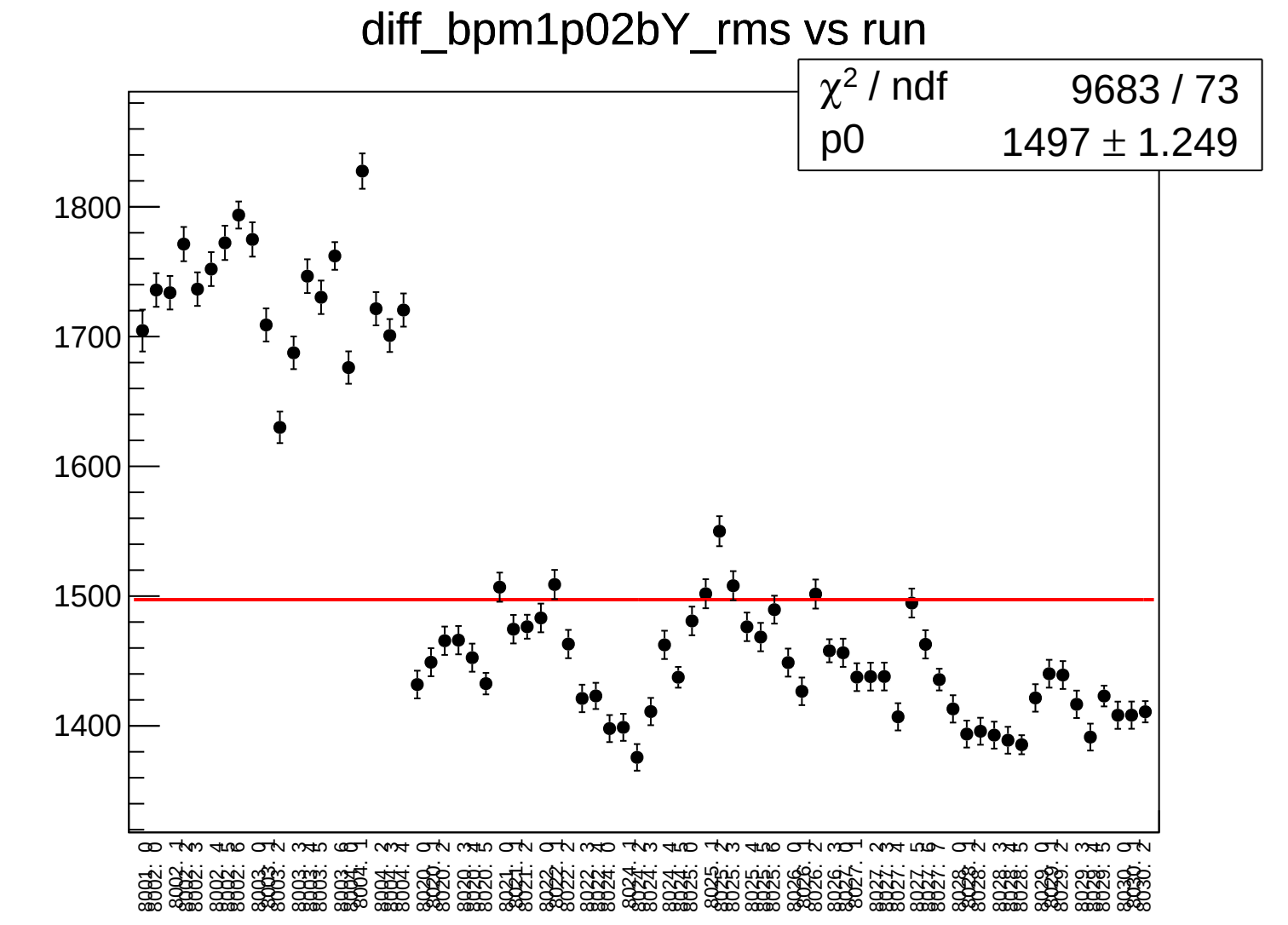

diff_bpm1p02bX_mean vs run
χ² / ndf 82.08 / 73
p0 −0.4406 ± 2.949
pull
Entries 74
Mean 345.6
Std Dev 301.3

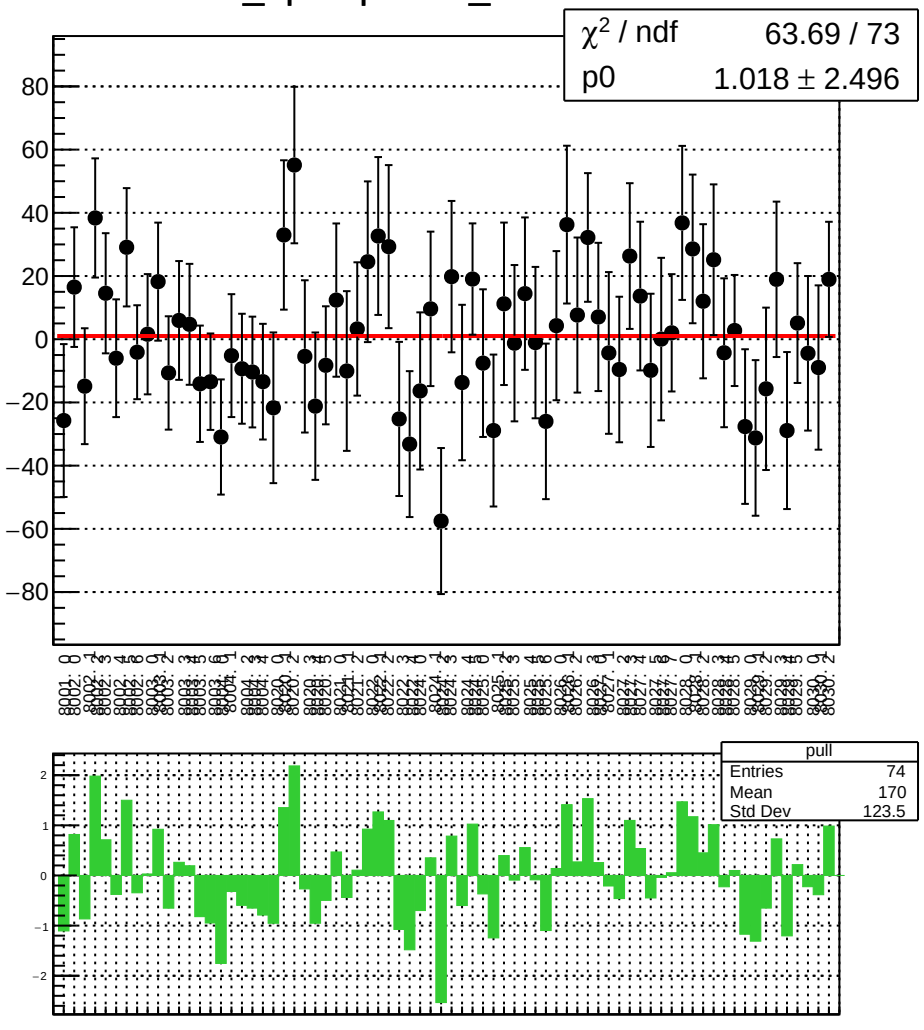

pull1D
Entries 74
Mean −0.007166
Std Dev 1.053

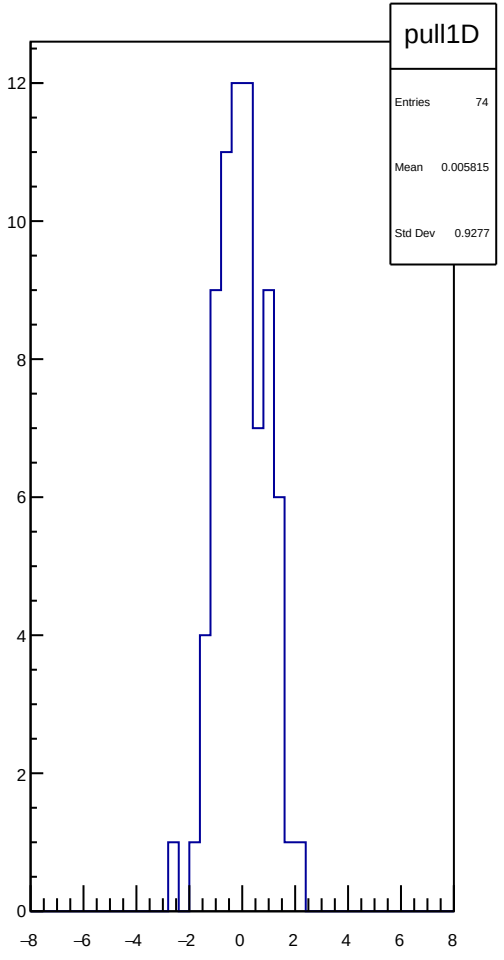

diff_bpm1p02bX_rms vs run
χ² / ndf 1.161e+04 / 73
p0 2497 ± 2.085
3000
2800
2600
2400
2200

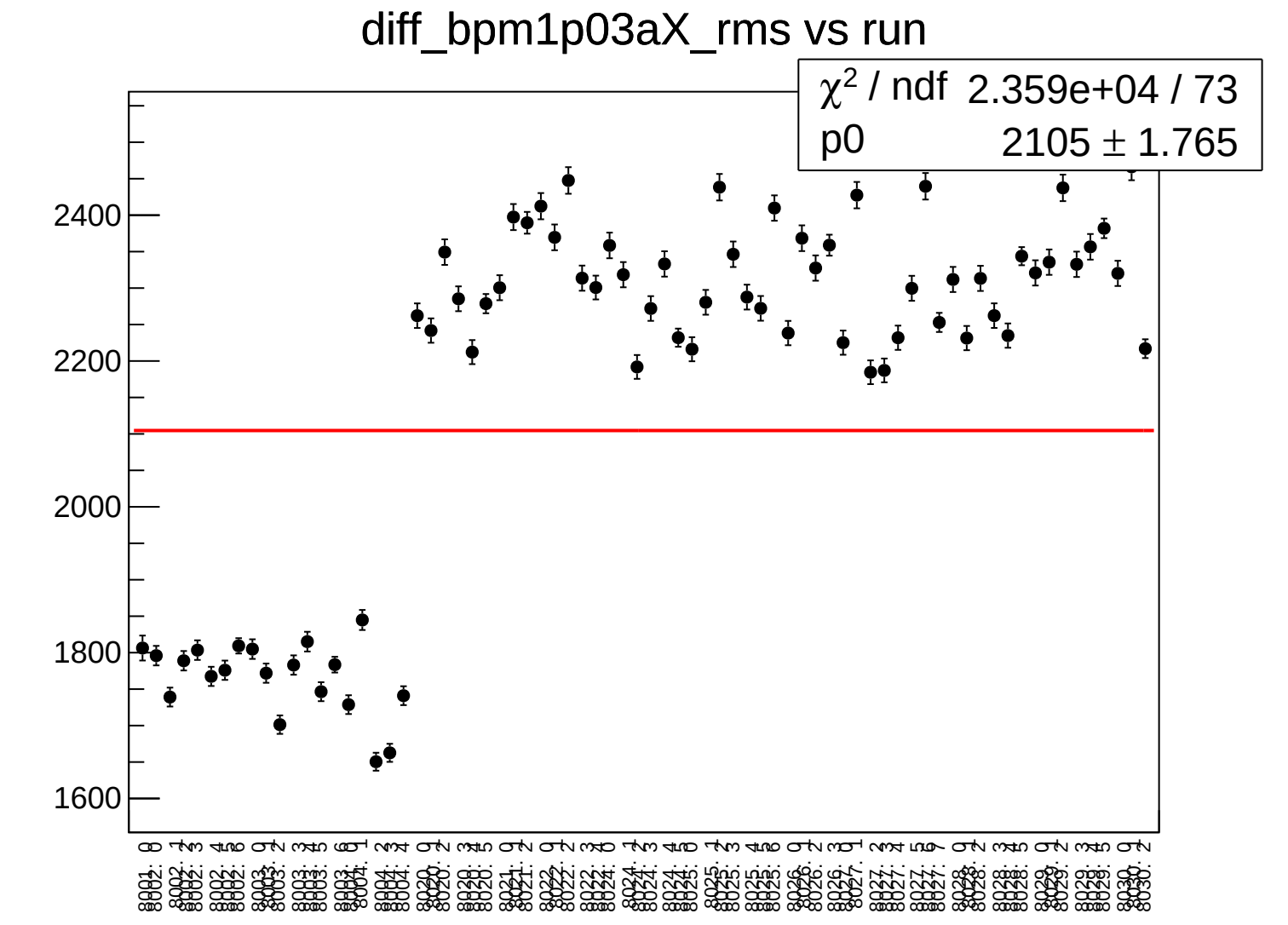

diff_bpm1p02bY_mean vs run
χ² / ndf 76.25 / 73
p0 1.743 ± 1.767
pull
Entries 74
Mean −68.71
Std Dev 106.1

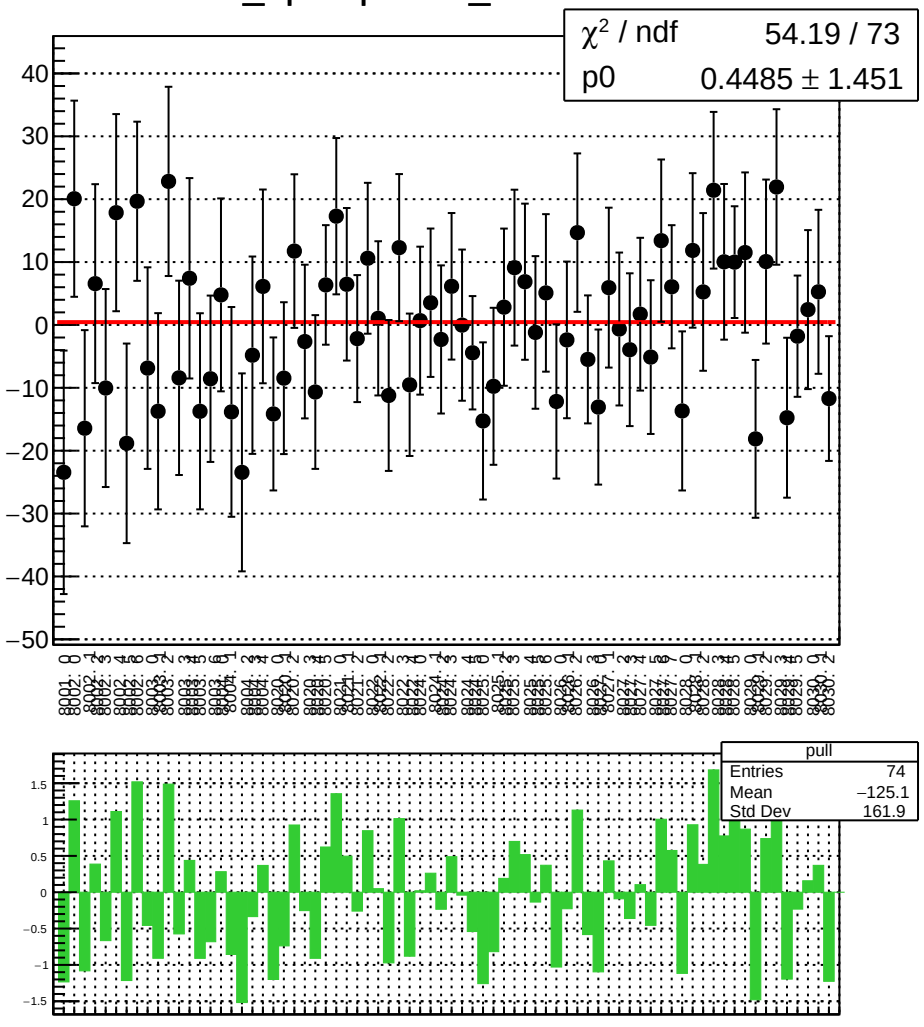

pull1D
Entries 74
Mean −0.03494
Std Dev 1.014

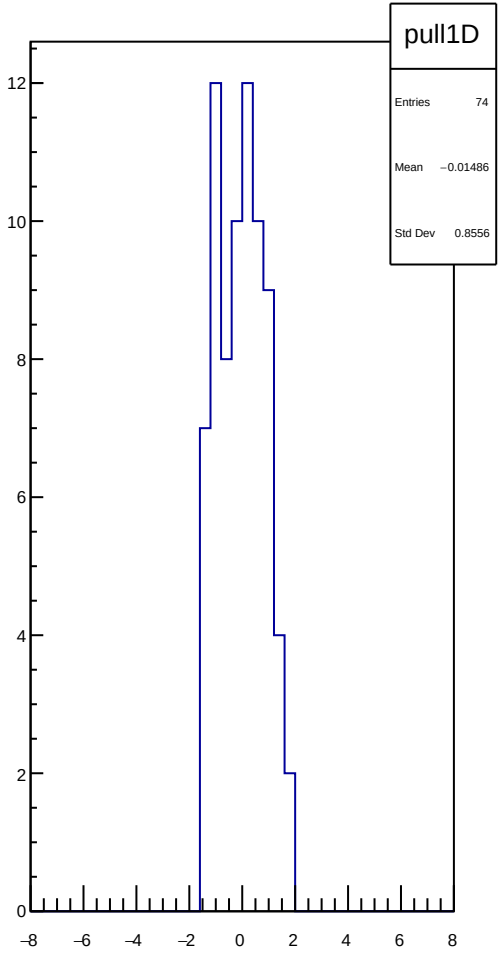

diff_bpm1p02bY_rms vs run
χ² / ndf 9683 / 73
p0 1497 ± 1.249
1800
1700
1600
1500
1400

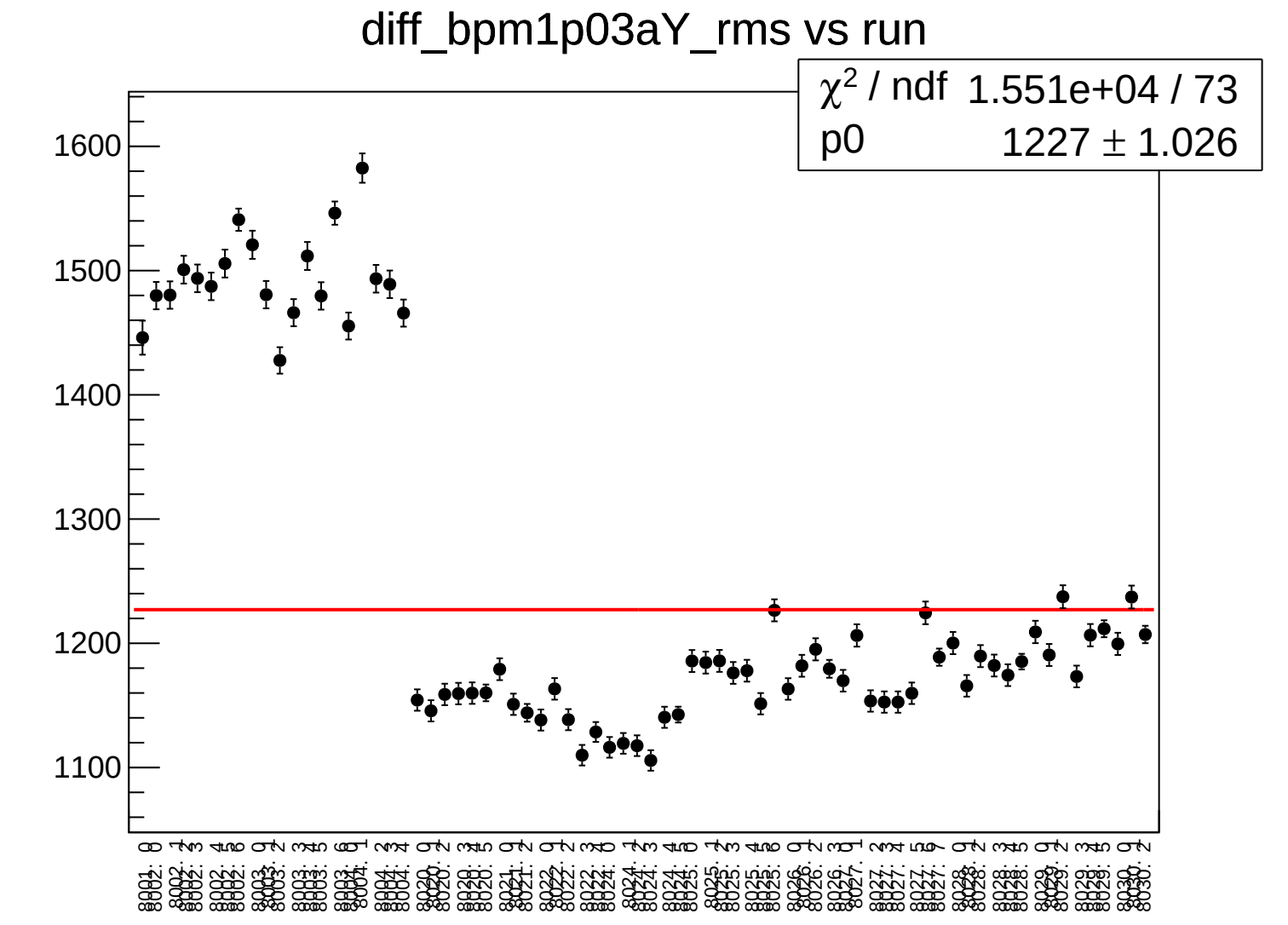

diff_bpm1p03aX_mean vs run
χ² / ndf 63.69 / 73
p0 1.018 ± 2.496
pull
Entries 74
Mean 170
Std Dev 123.5

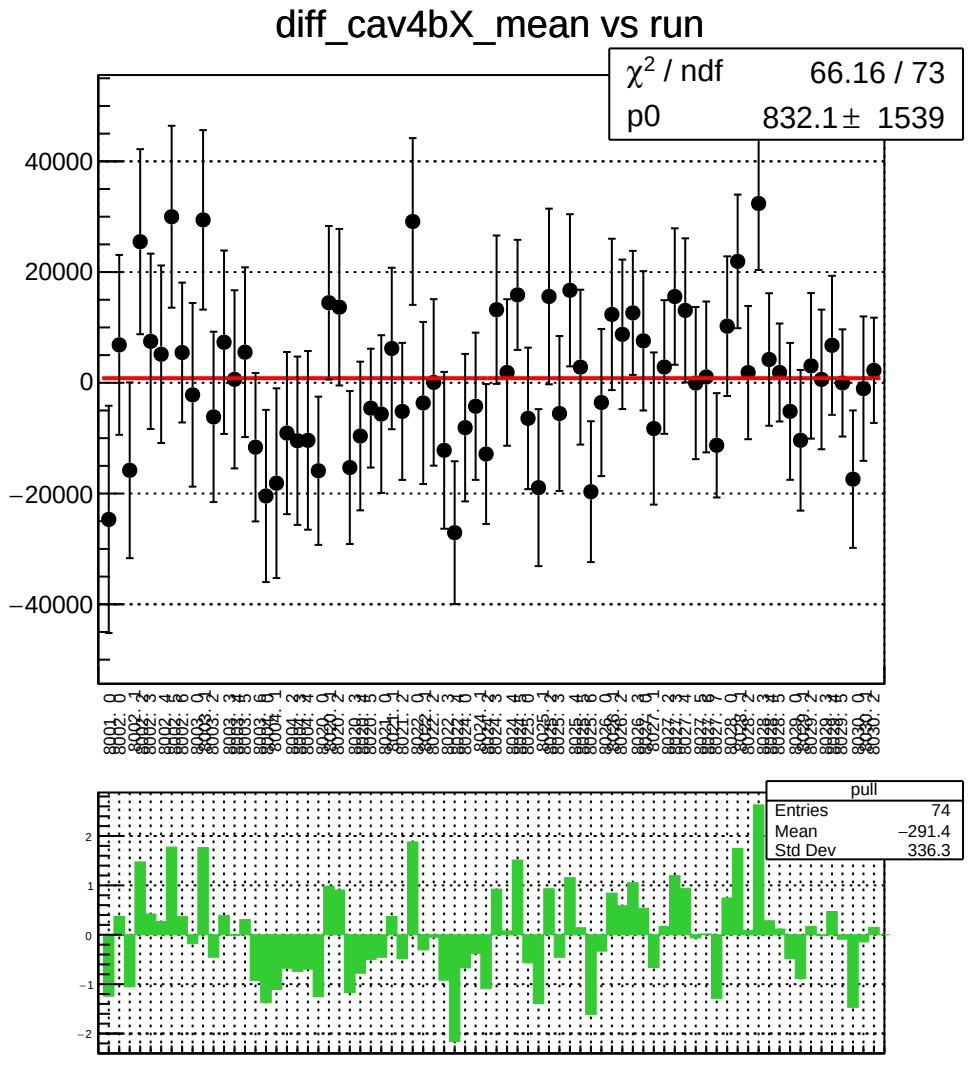

pull1D
Entries 74
Mean 0.005815
Std Dev 0.9277

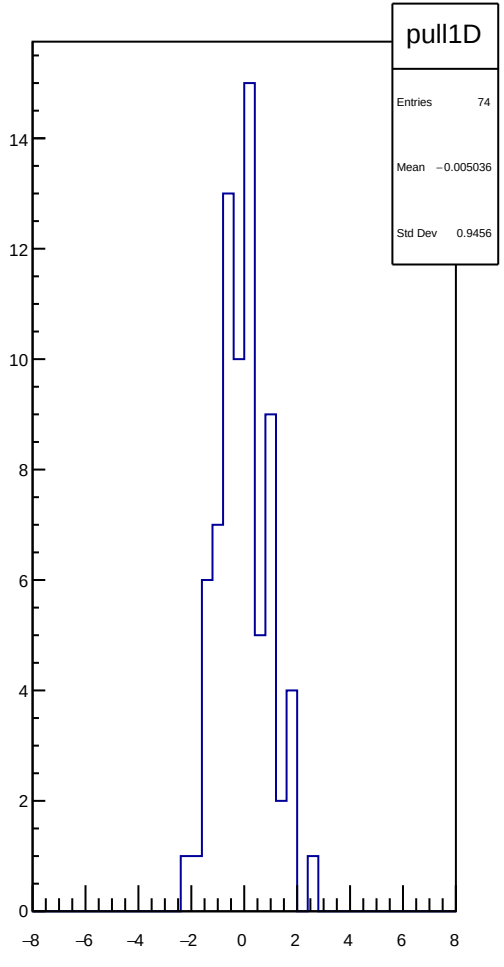

diff_bpm1p03aX_rms vs run
χ² / ndf 2.359e+04 / 73
p0 2105 ± 1.765
2400
2200
2000
1800
1600

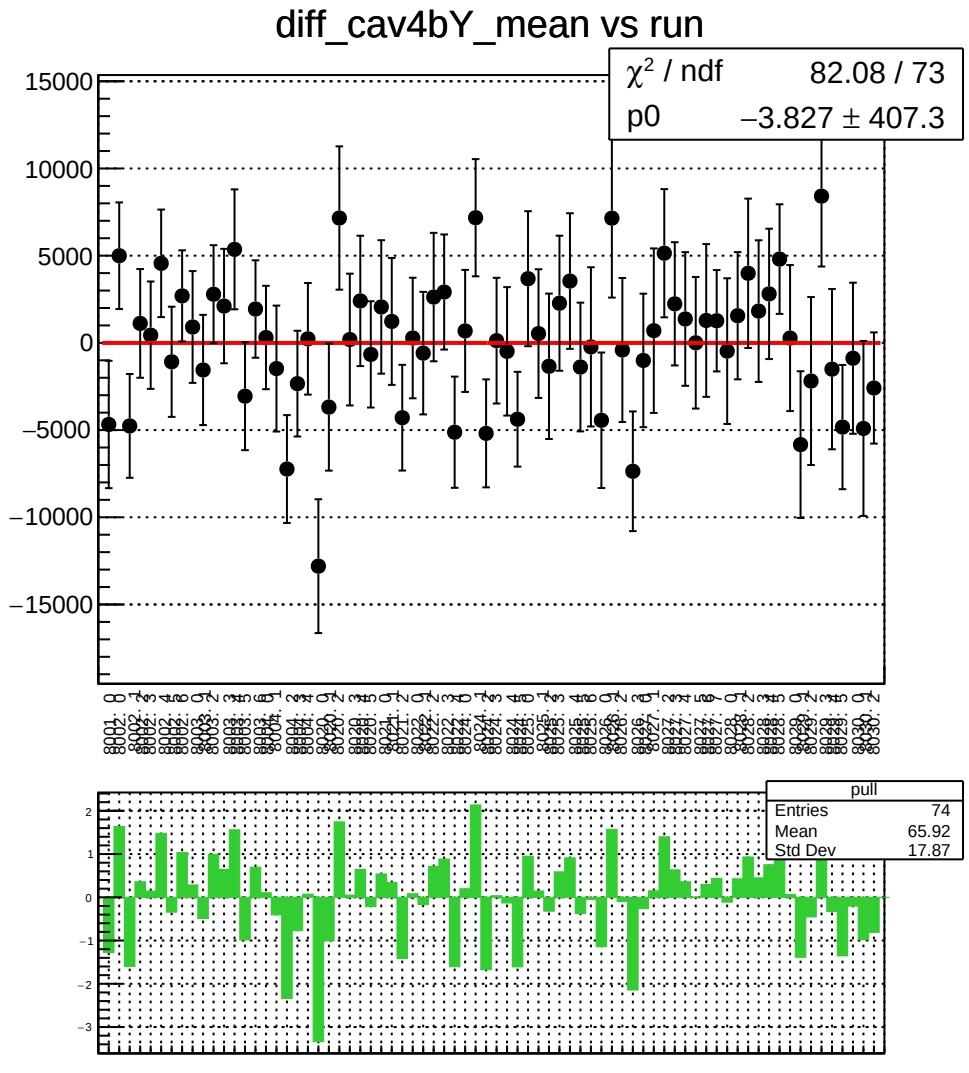

diff_bpm1p03aY_mean vs run
χ² / ndf 54.19 / 73
p0 0.4485 ± 1.451
pull
Entries 74
Mean −125.1
Std Dev 161.9

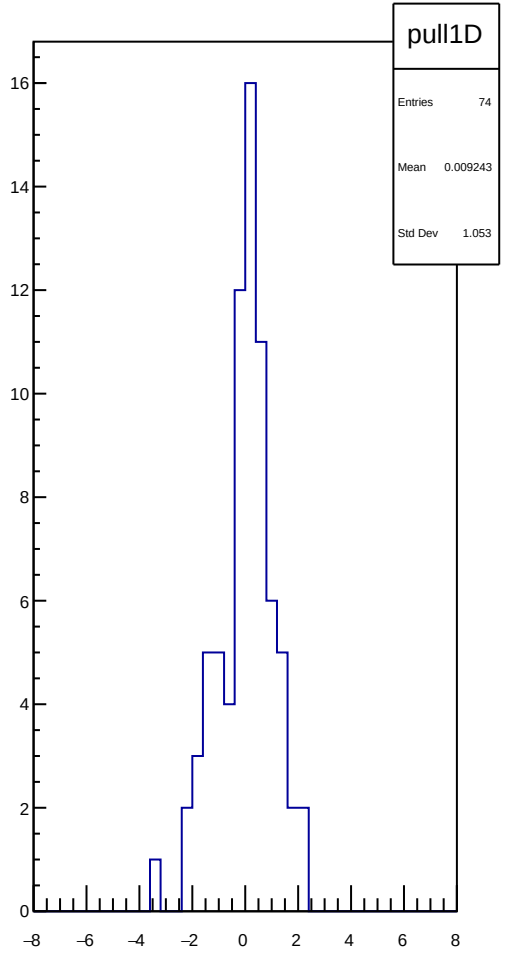

pull1D
Entries 74
Mean −0.01486
Std Dev 0.8556

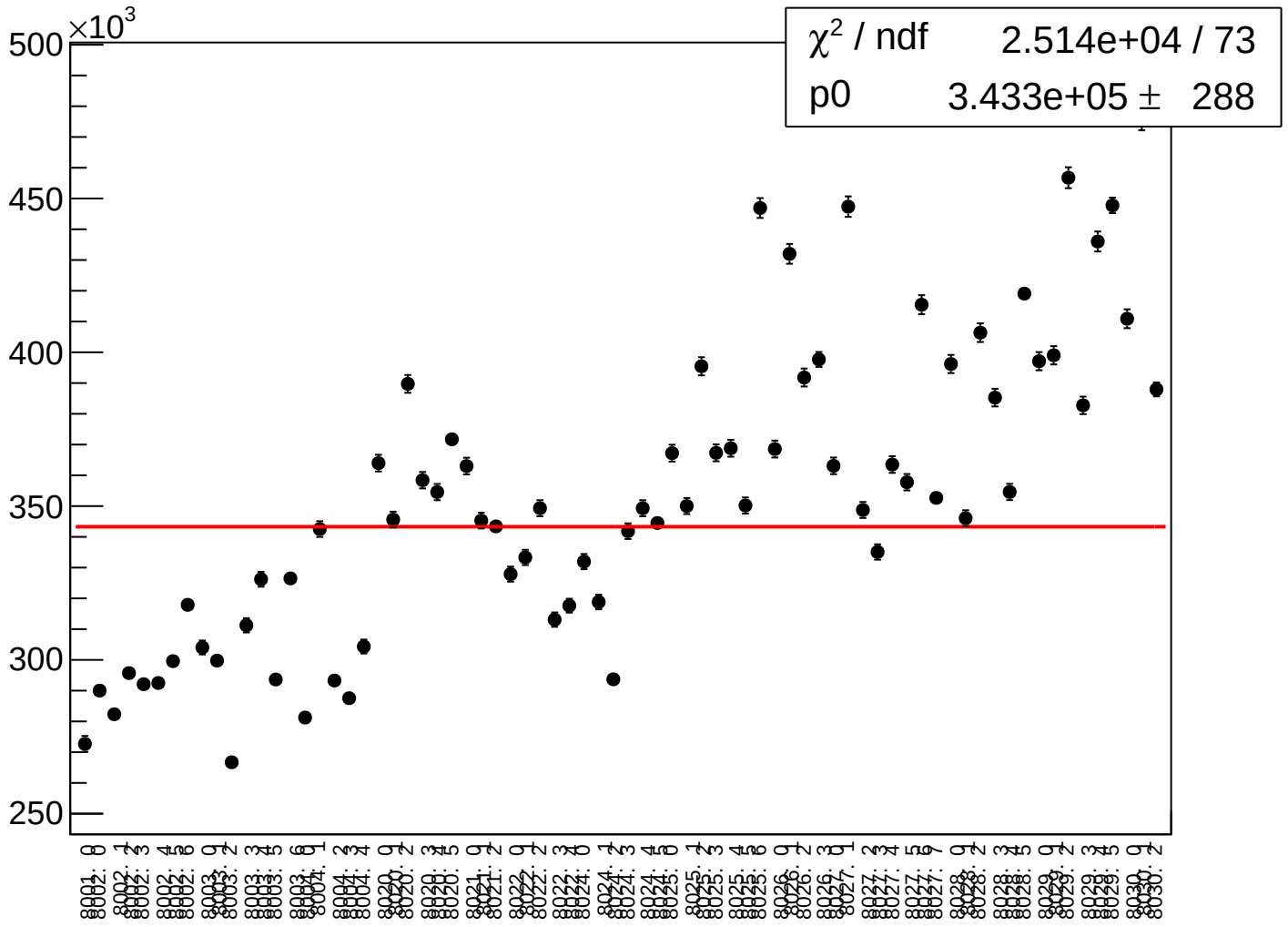

diff_bpm1p03aY_rms vs run
χ² / ndf 1.551e+04 / 73
p0 1227 ± 1.026
1600
1500
1400
1300
1200
1100

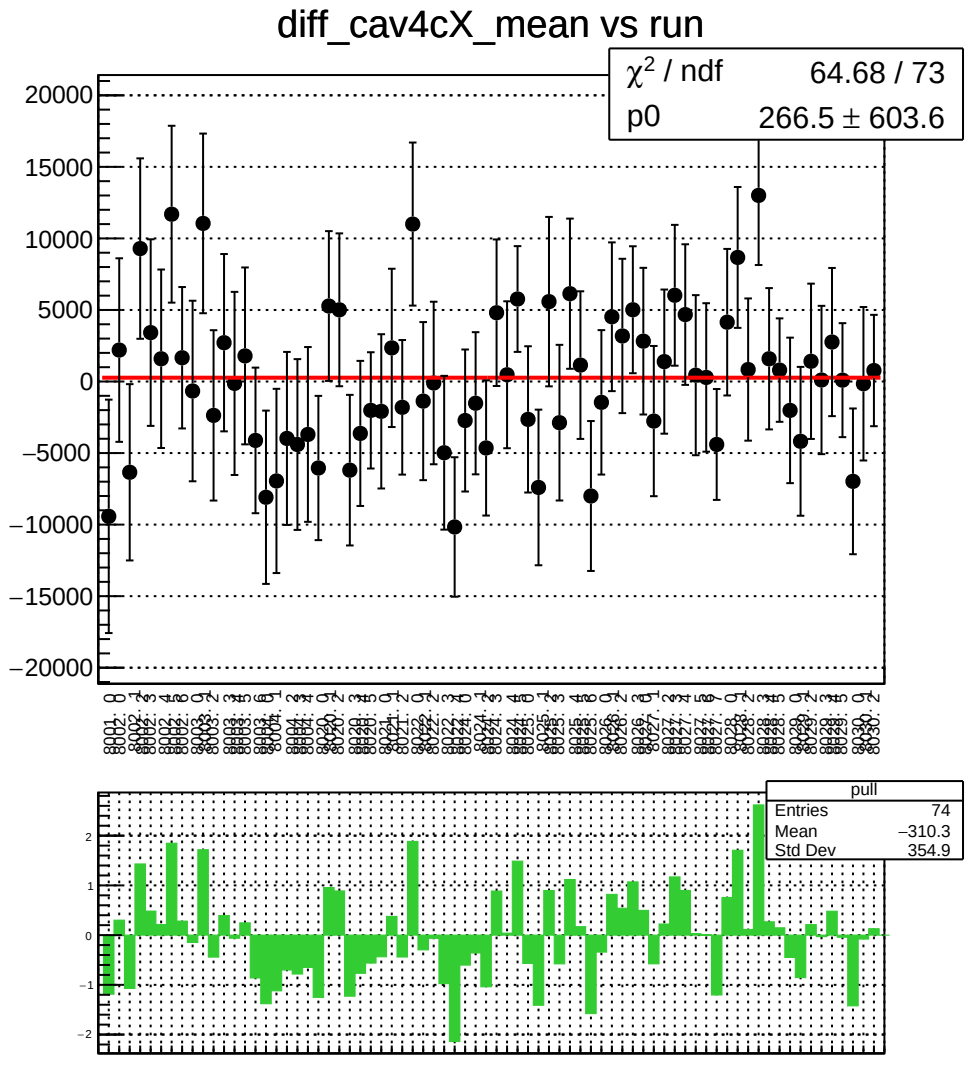

diff_cav4bX_mean vs run
χ² / ndf 66.16 / 73
p0 832.1 ± 1539
40000
20000
0
−20000
−40000
pull
Entries 74
Mean −291.4
Std Dev 336.3
2
1
0
−1
−2

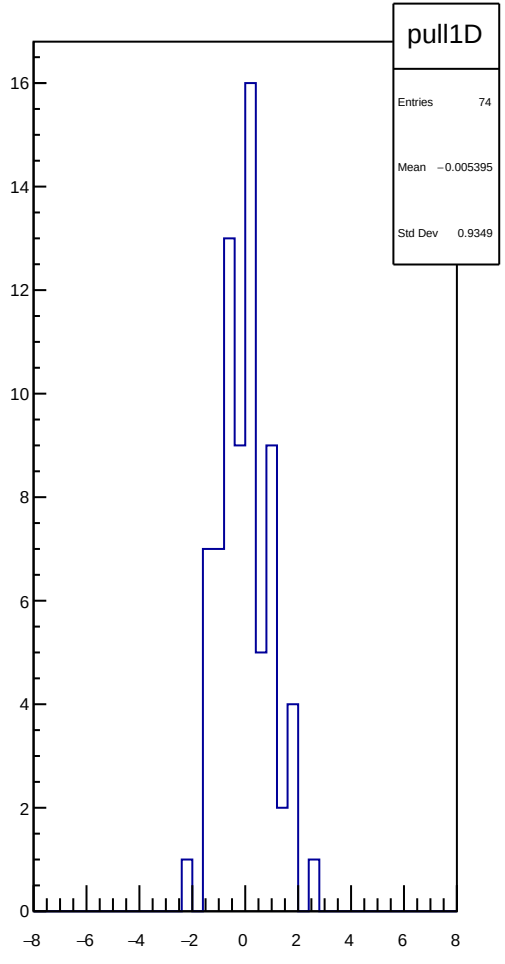

pull1D
Entries 74
Mean −0.005036
Std Dev 0.9456
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

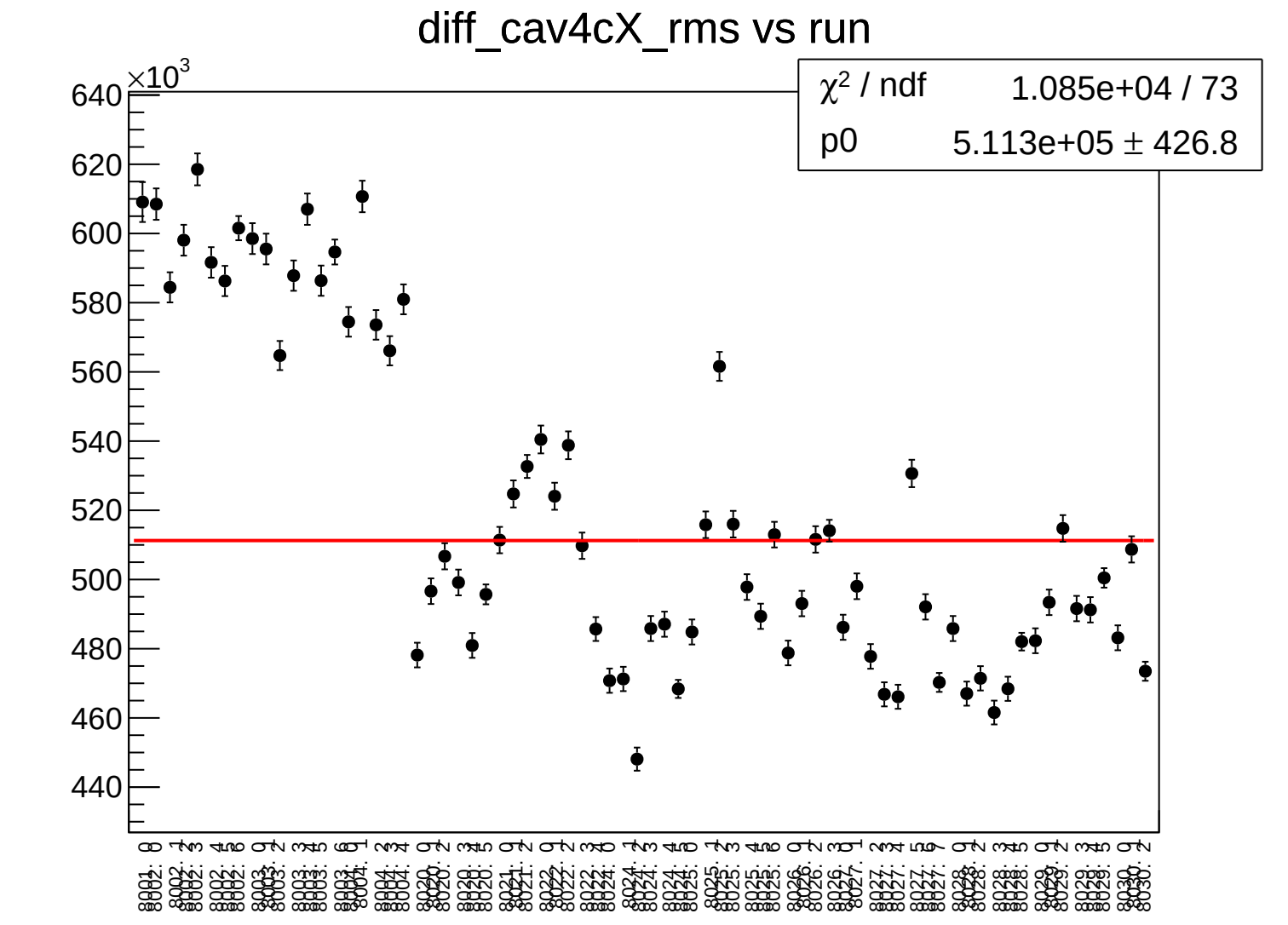

diff_cav4bY_mean vs run
χ² / ndf 82.08 / 73
p0 −3.827 ± 407.3
pull
Entries 74
Mean 65.92
Std Dev 17.87

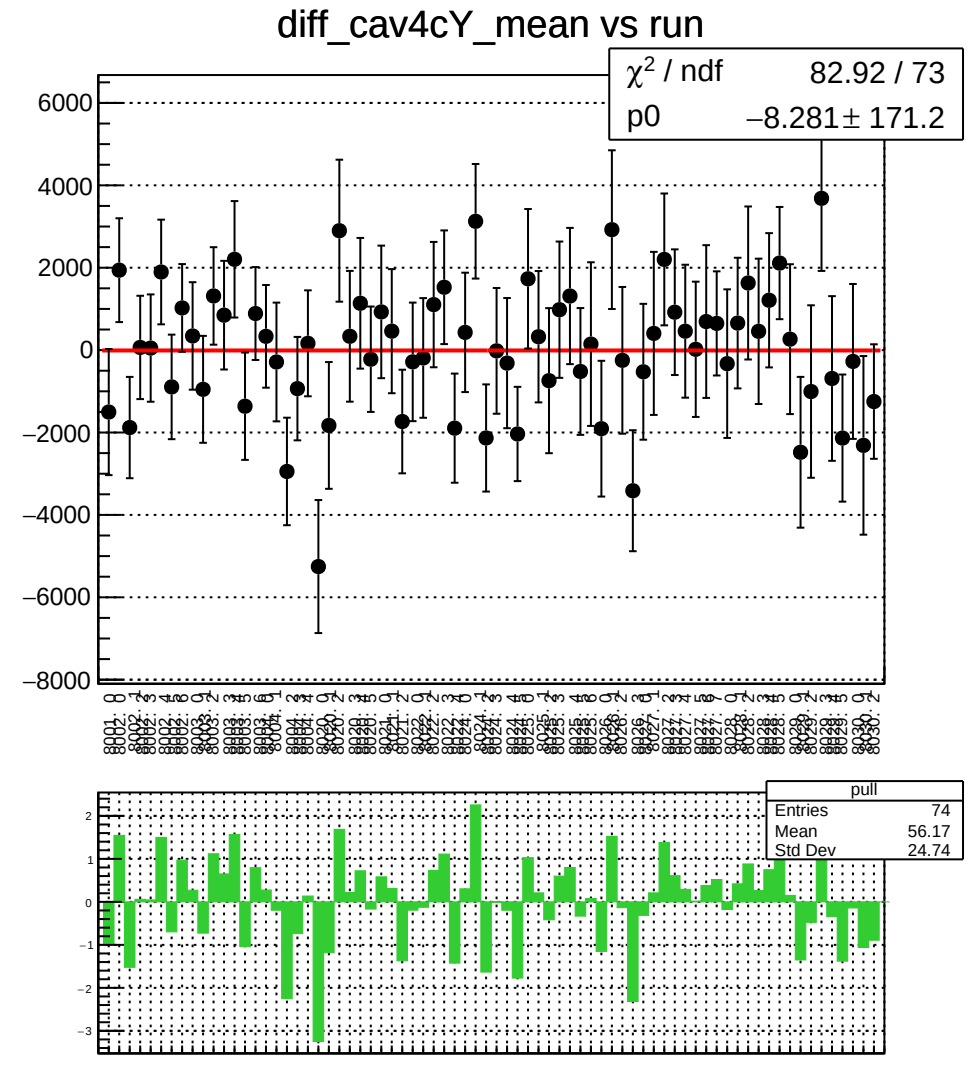

pull1D
Entries 74
Mean 0.009243
Std Dev 1.053

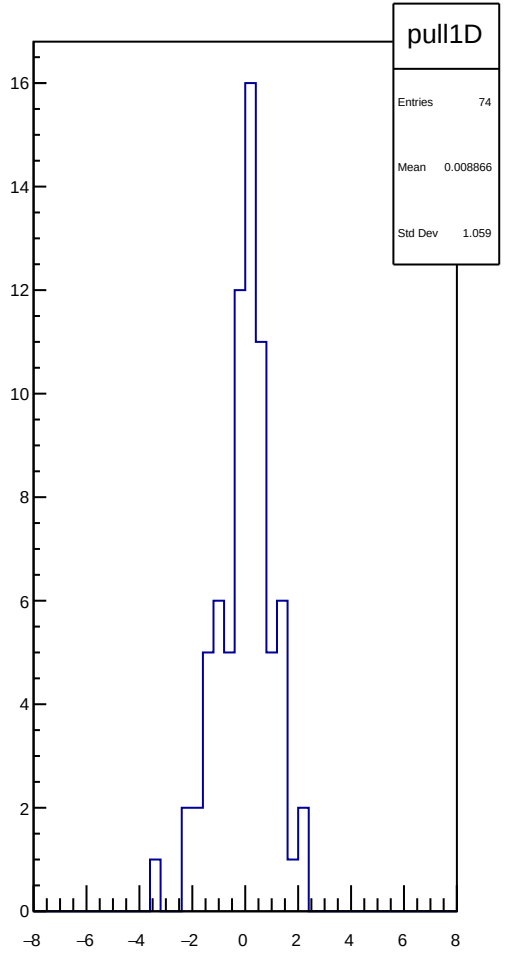

diff_cav4bY_rms vs run
χ^2 / ndf 2.514e+04 / 73
p0 3.433e+05 ± 288
×10^3
500
450
400
350
300
250

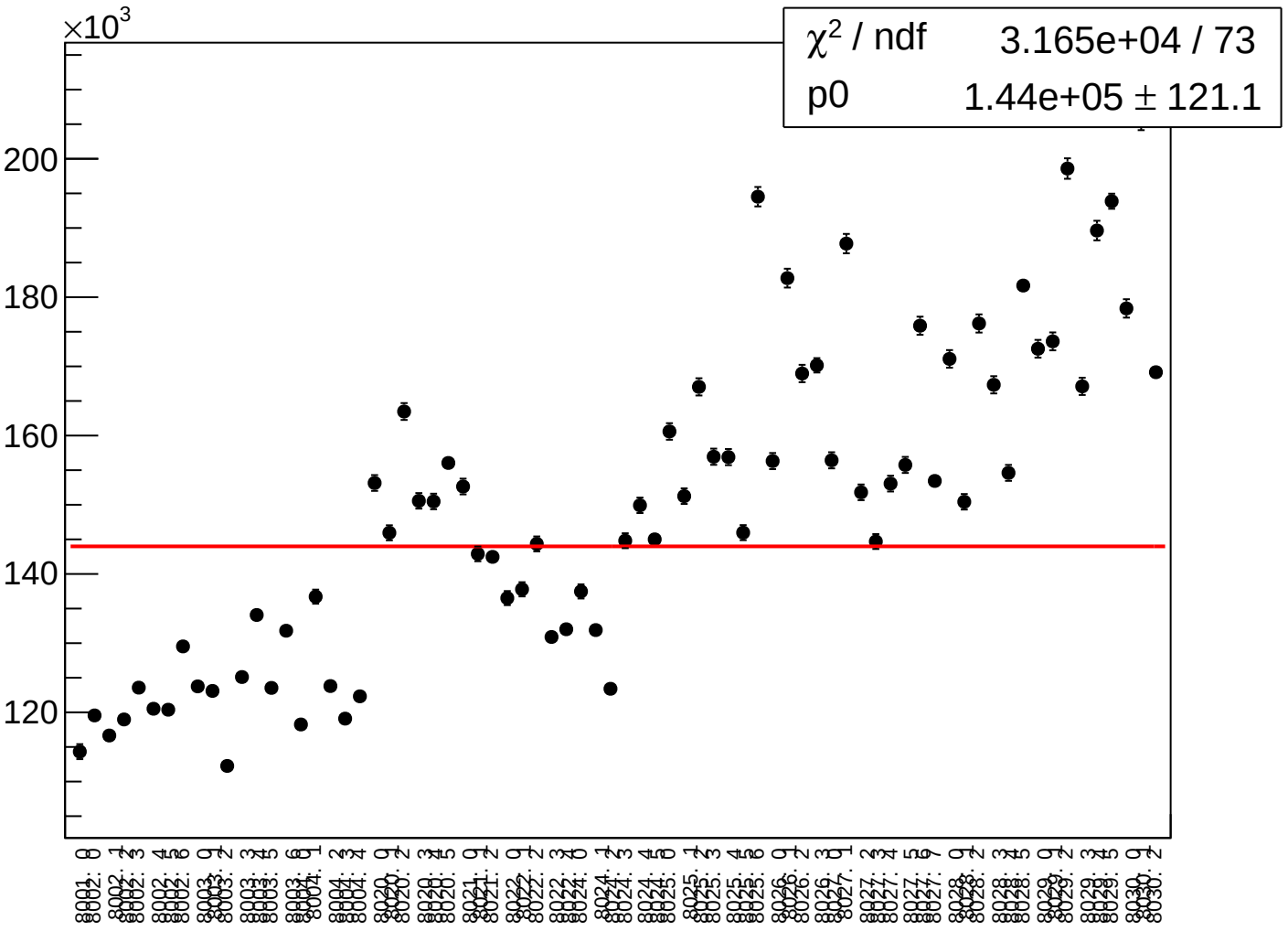

diff_cav4cX_mean vs run
χ² / ndf 64.68 / 73
p0 266.5 ± 603.6
pull
Entries 74
Mean −310.3
Std Dev 354.9

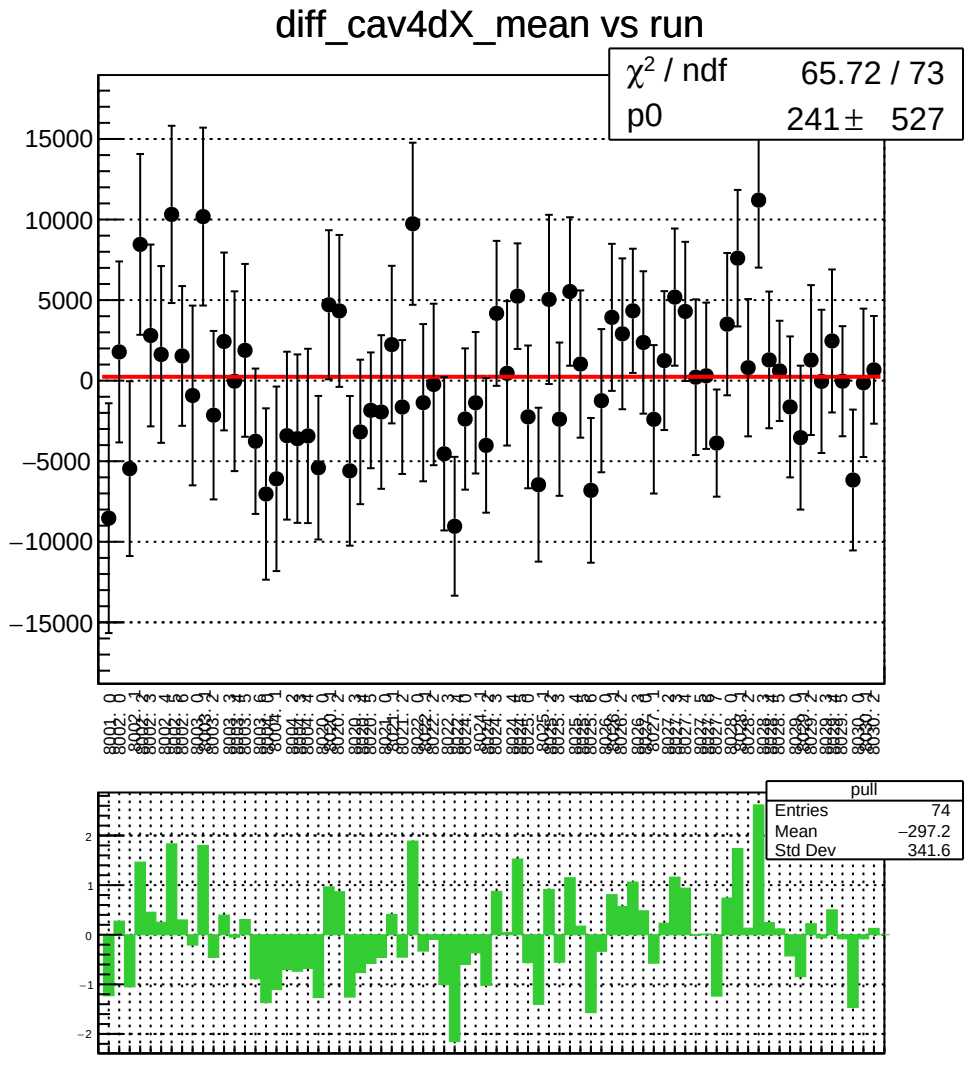

pull1D
Entries 74
Mean −0.005395
Std Dev 0.9349

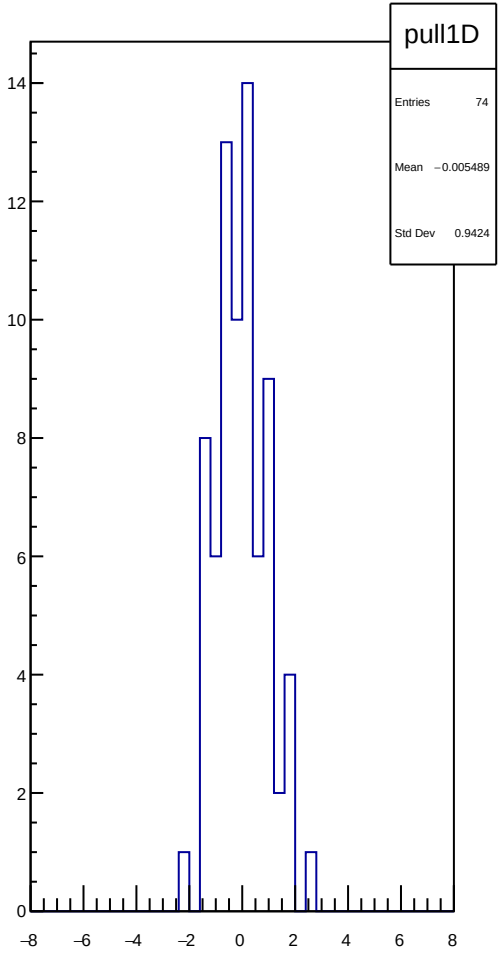

diff_cav4cX_rms vs run
×10^3
640
620
600
580
560
540
520
500
480
460
440
χ² / ndf 1.085e+04 / 73
p0 5.113e+05 ± 426.8

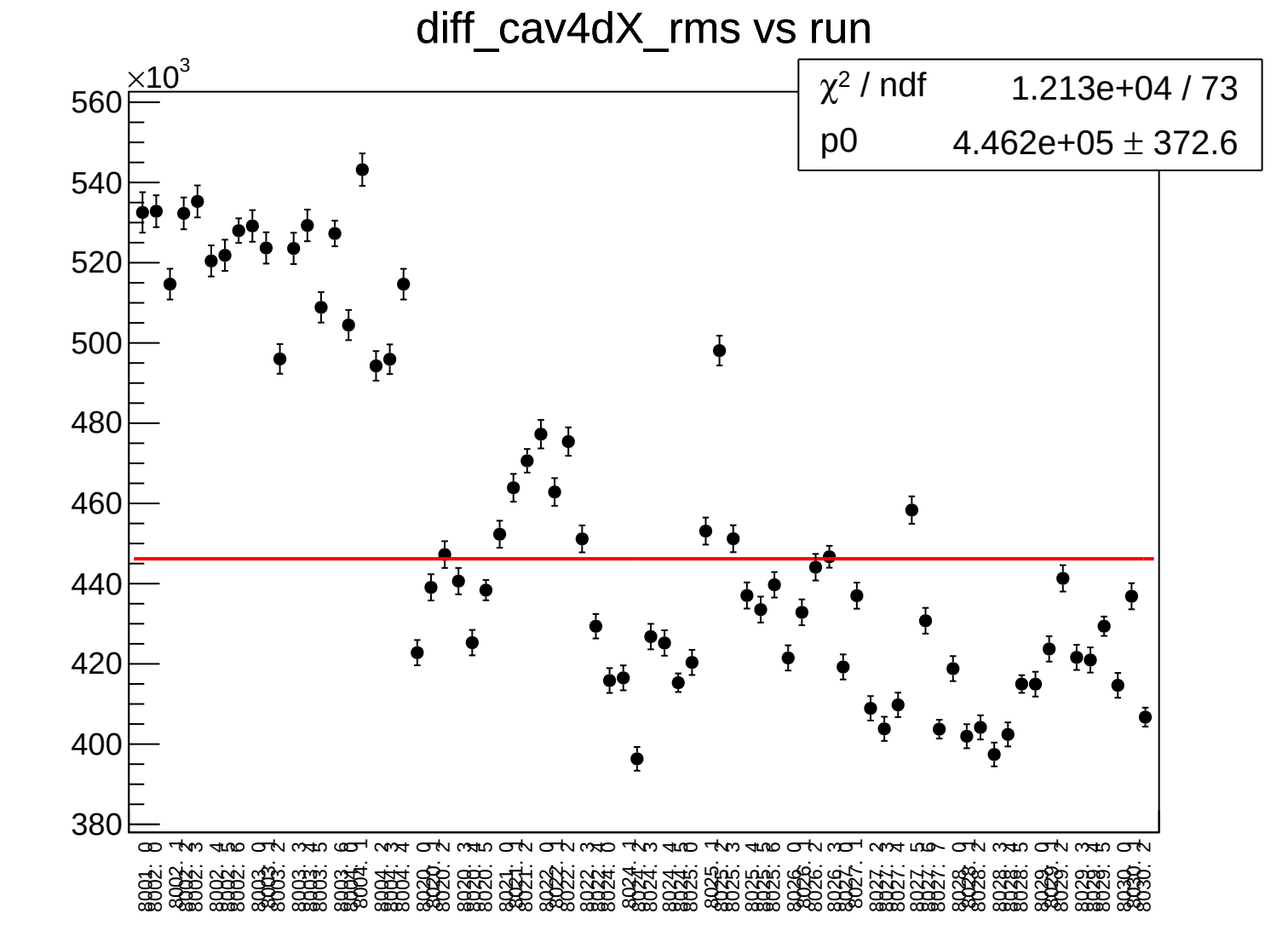

diff_cav4cY_mean vs run
χ² / ndf 82.92 / 73
p0 −8.281 ± 171.2
pull
Entries 74
Mean 56.17
Std Dev 24.74

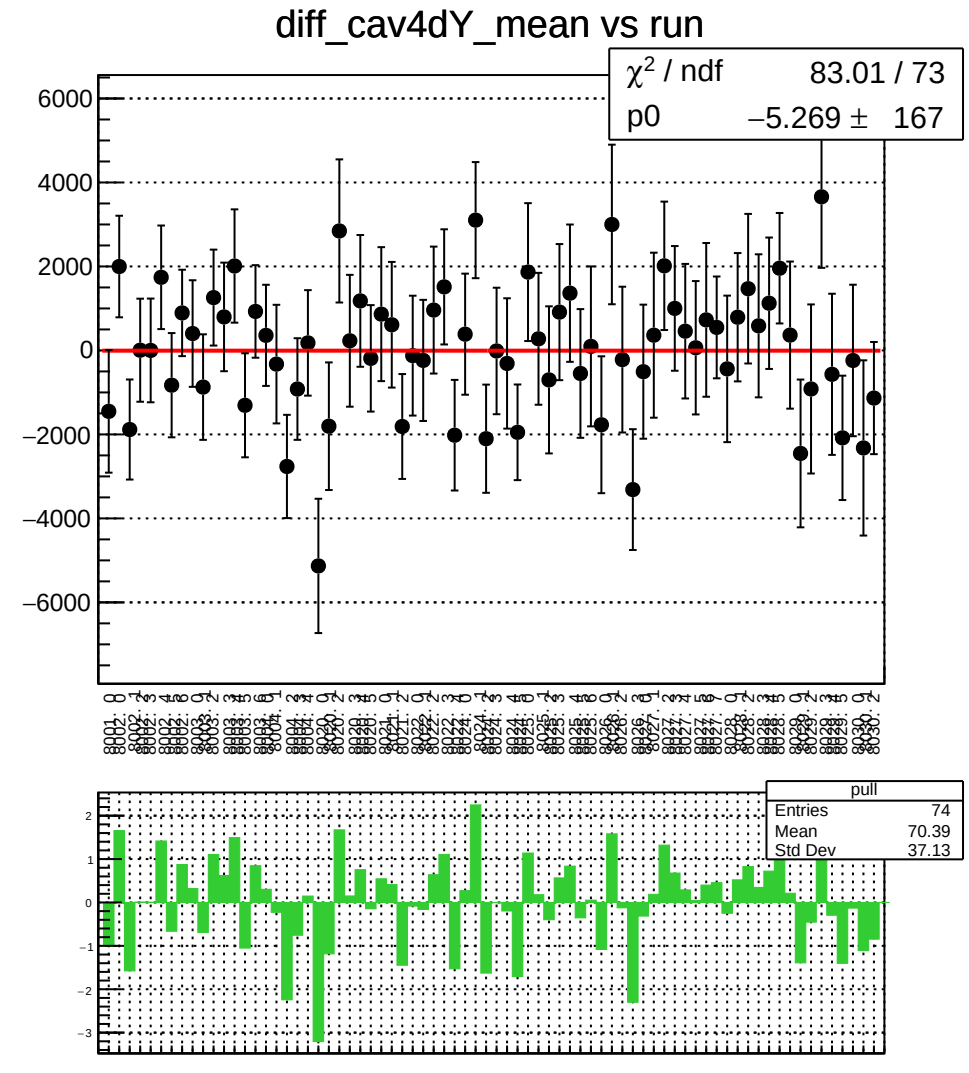

pull1D
Entries 74
Mean 0.008866
Std Dev 1.059

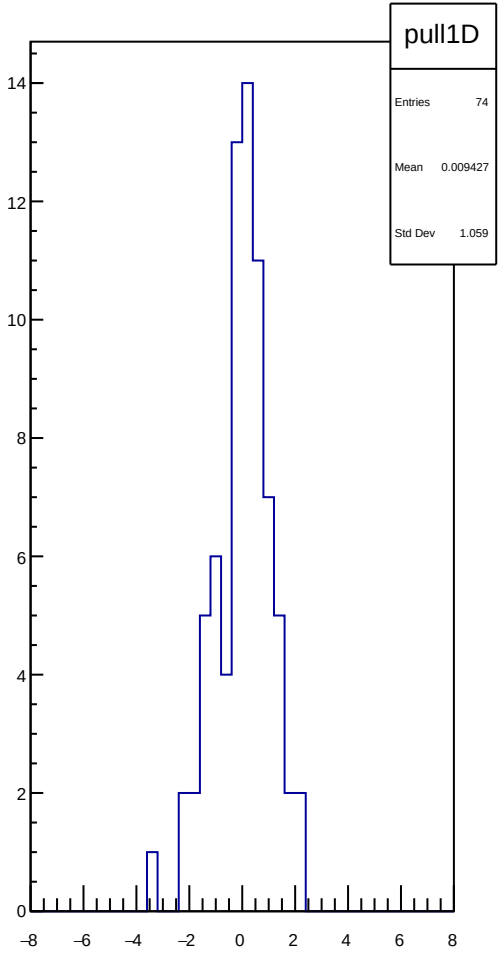

diff_cav4cY_rms vs run
×10^3
χ^2 / ndf 3.165e+04 / 73
p0 1.44e+05 ± 121.1
200
180
160
140
120

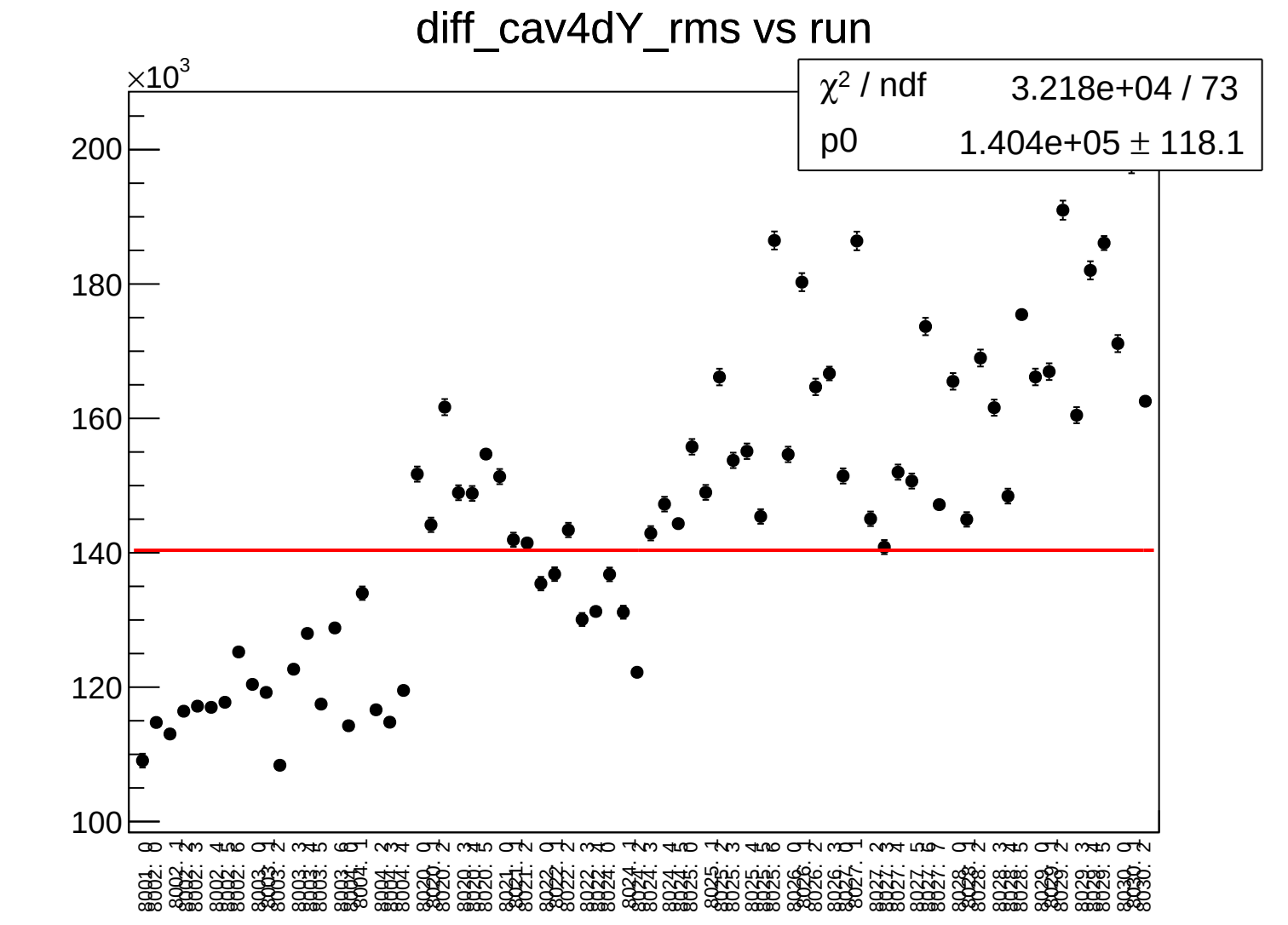

diff_cav4dX_mean vs run
χ² / ndf 65.72 / 73
p0 241 ± 527
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean −297.2
Std Dev 341.6
2
1
0
−1
−2

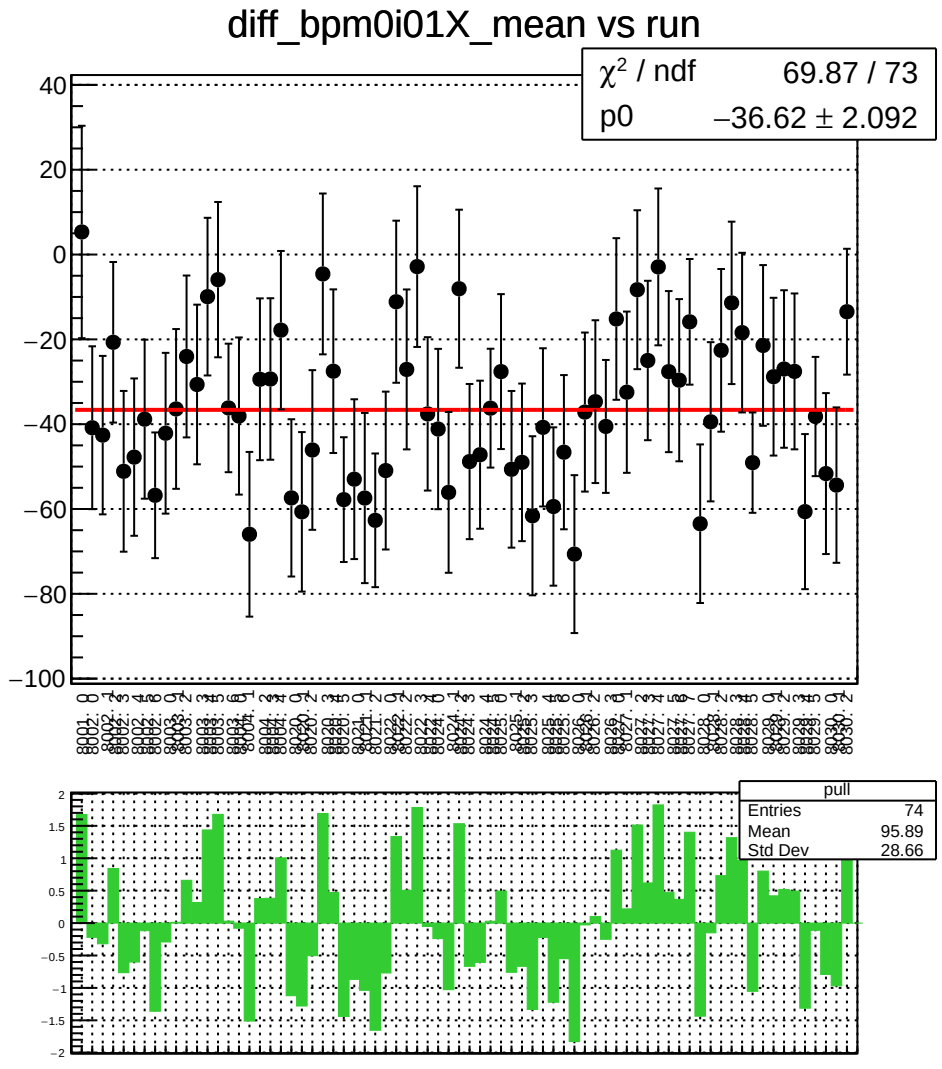

pull1D
Entries 74
Mean −0.005489
Std Dev 0.9424
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

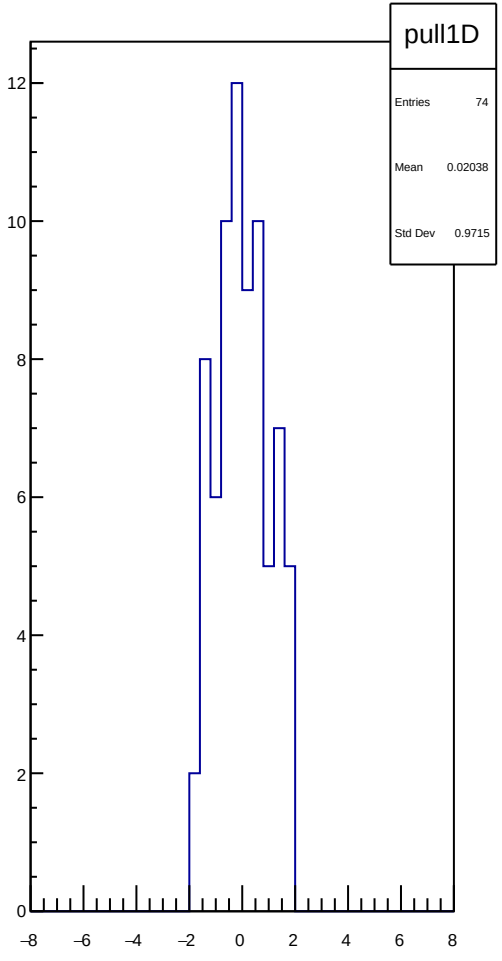

diff_cav4dX_rms vs run
×10^3
χ² / ndf 1.213e+04 / 73
p0 4.462e+05 ± 372.6
560
540
520
500
480
460
440
420
400
380

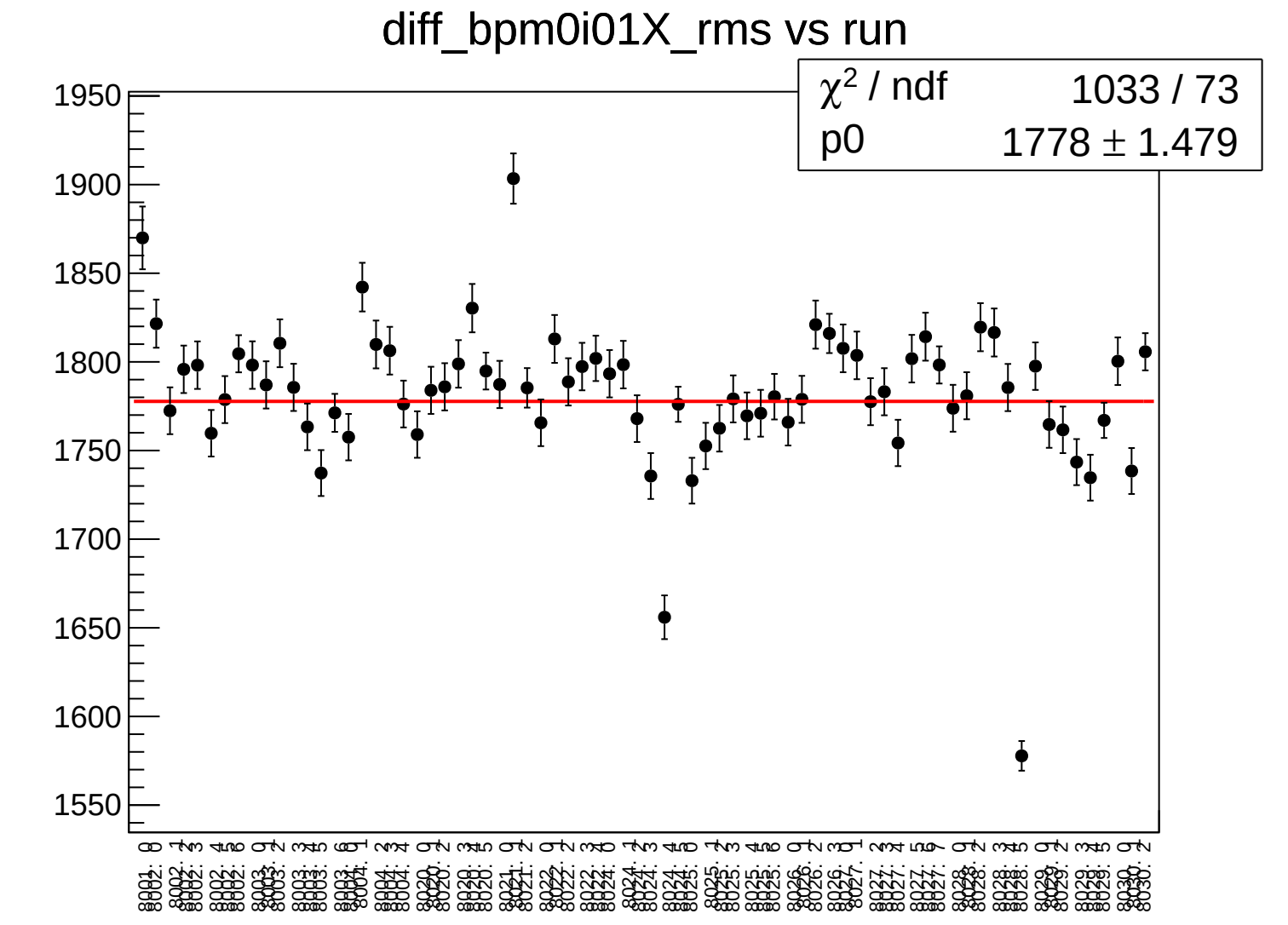

diff_cav4dY_mean vs run
χ² / ndf 83.01 / 73
p0 −5.269 ± 167
pull
Entries 74
Mean 70.39
Std Dev 37.13

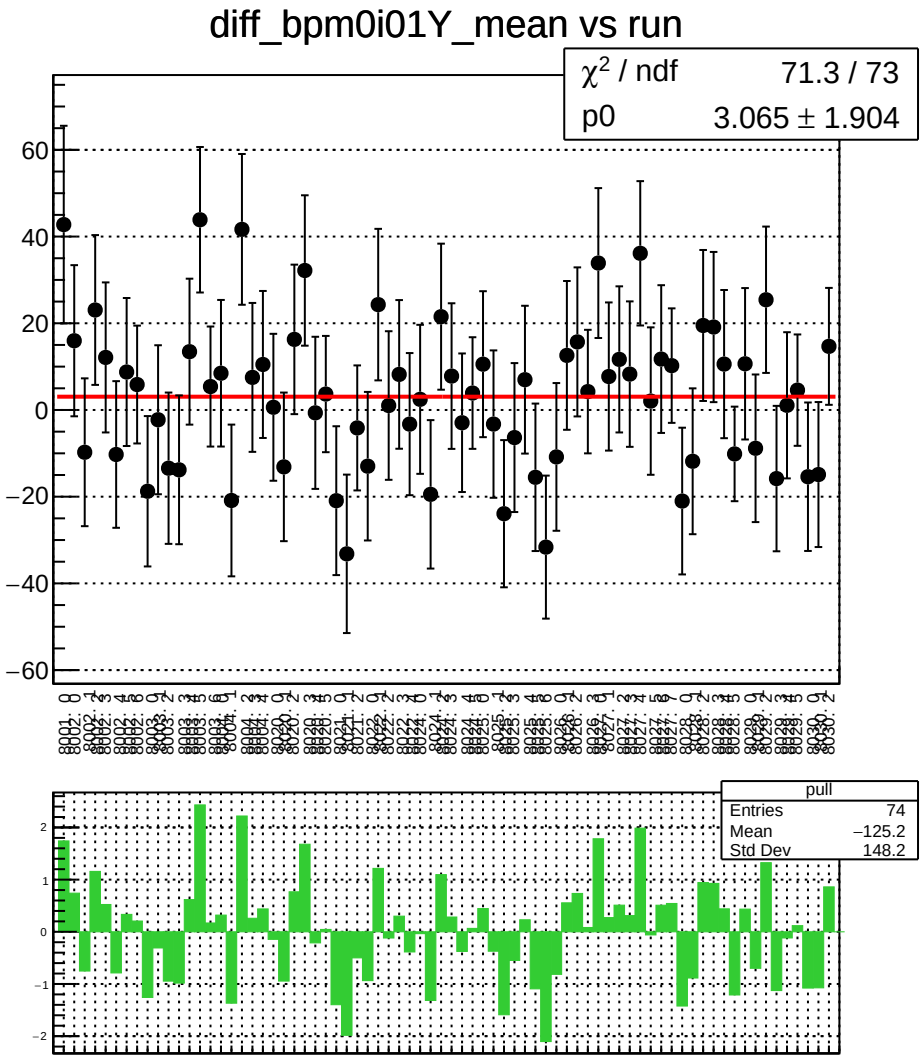

pull1D
Entries 74
Mean 0.009427
Std Dev 1.059

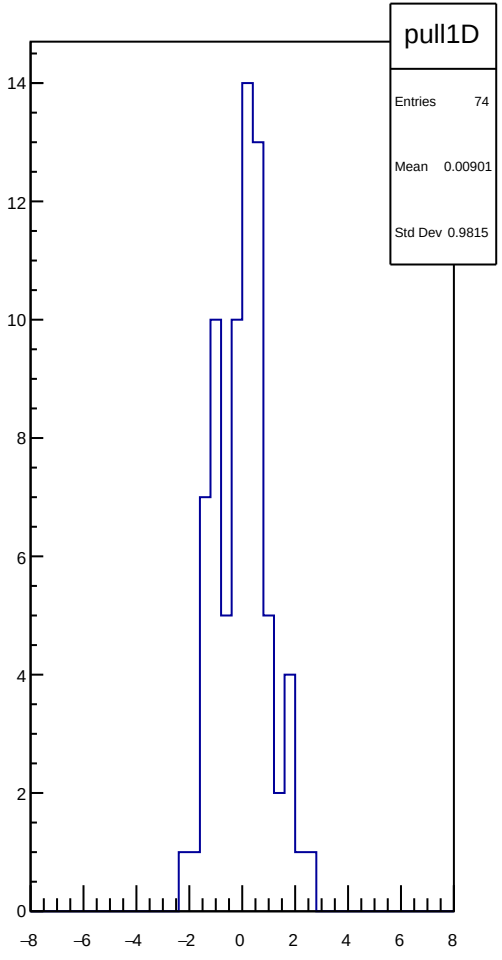

diff_cav4dY_rms vs run
×10^3
χ^2 / ndf 3.218e+04 / 73
p0 1.404e+05 ± 118.1
200
180
160
140
120
100

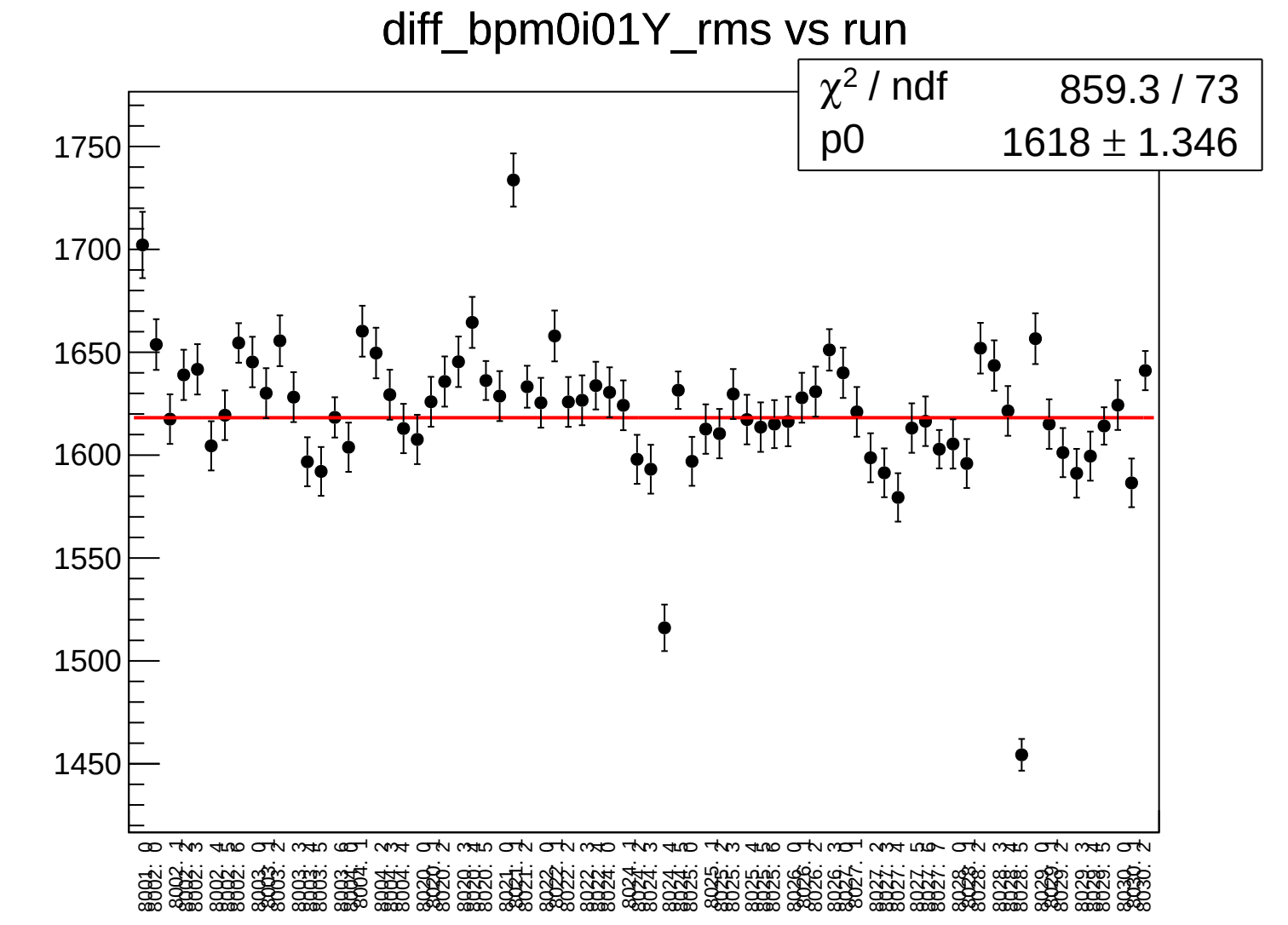

diff_bpm0i01X_mean vs run
χ² / ndf 69.87 / 73
p0 −36.62 ± 2.092
pull
Entries 74
Mean 95.89
Std Dev 28.66

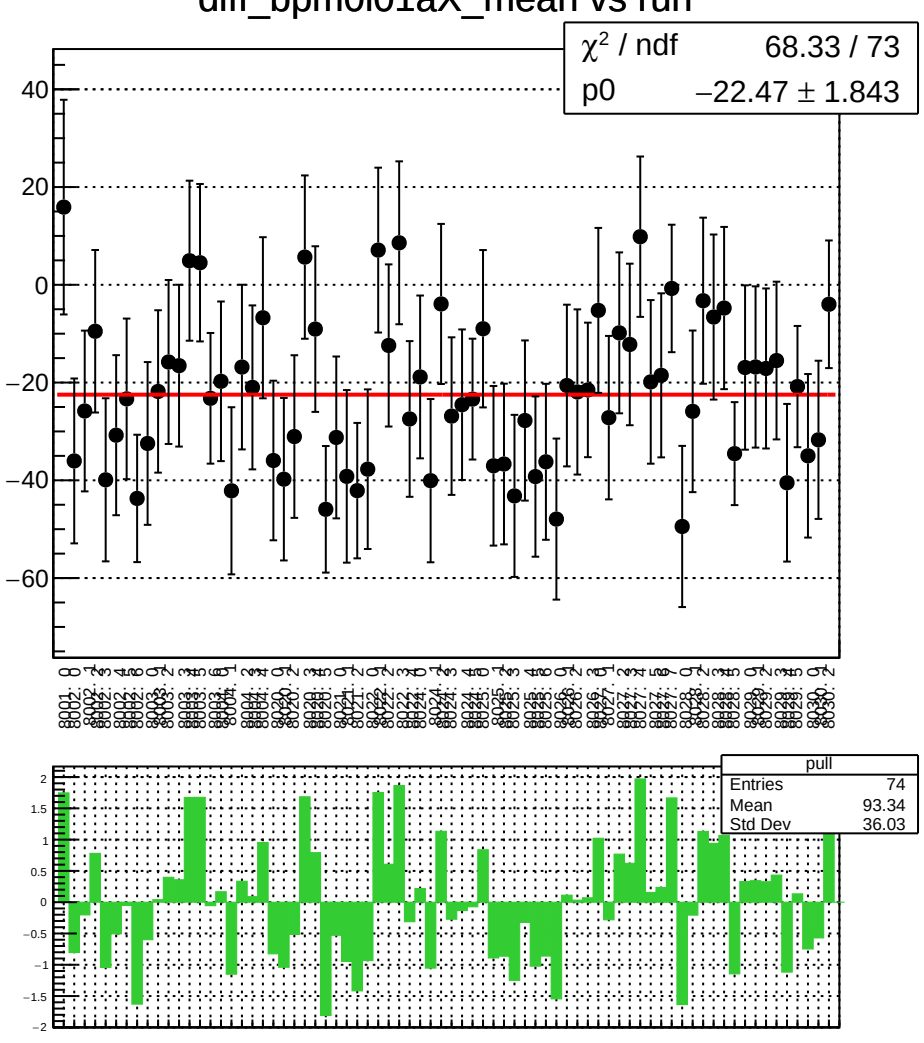

pull1D
Entries 74
Mean 0.02038
Std Dev 0.9715

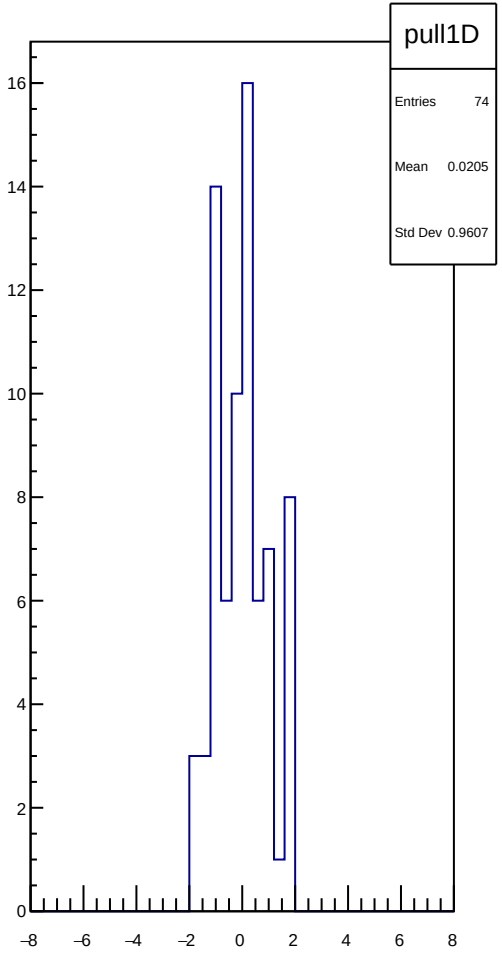

diff_bpm0i01X_rms vs run
χ² / ndf 1033 / 73
p0 1778 ± 1.479
1950
1900
1850
1800
1750
1700
1650
1600
1550

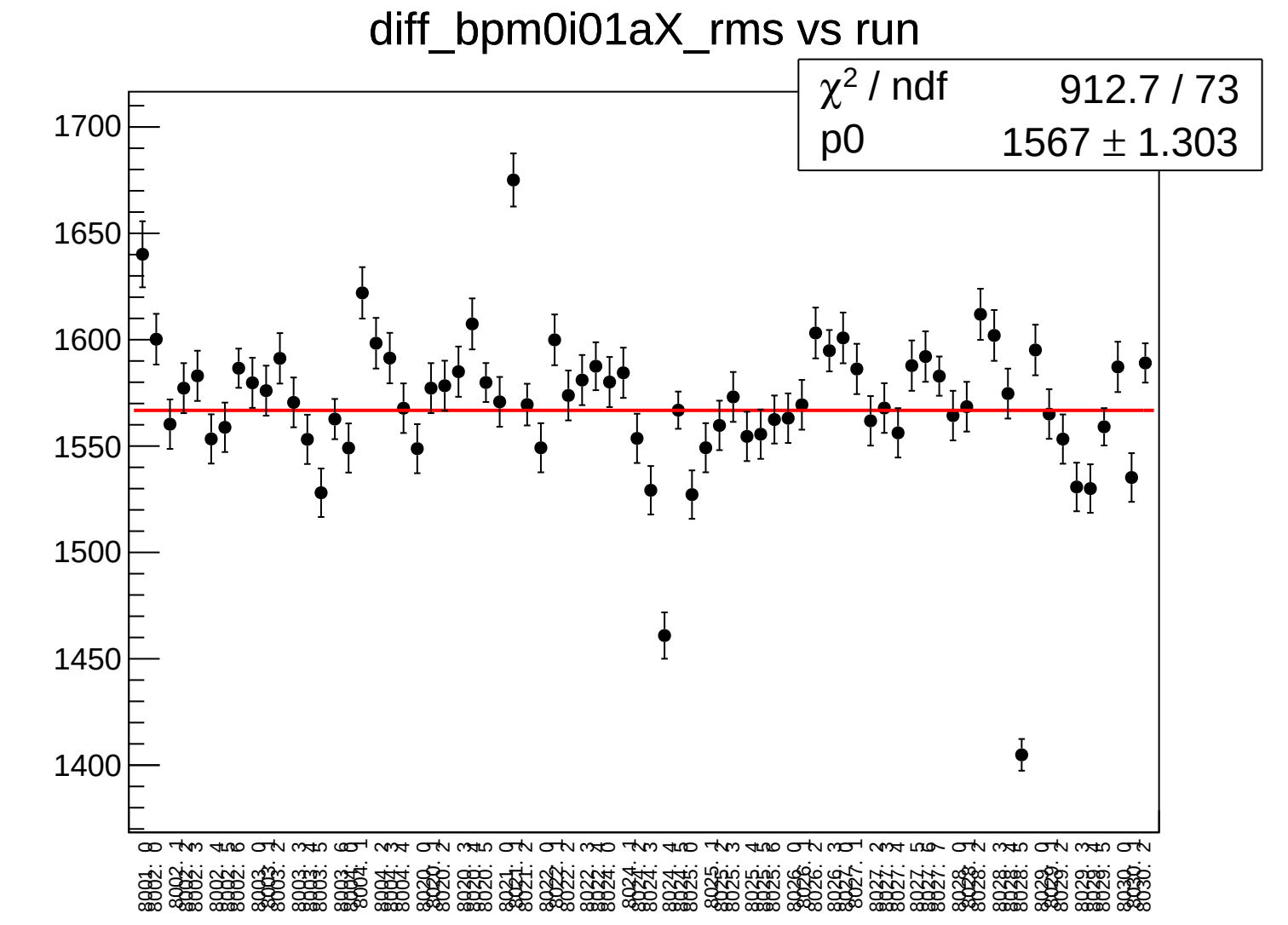

diff_bpm0i01Y_mean vs run
χ² / ndf 71.3 / 73
p0 3.065 ± 1.904
pull
Entries 74
Mean −125.2
Std Dev 148.2

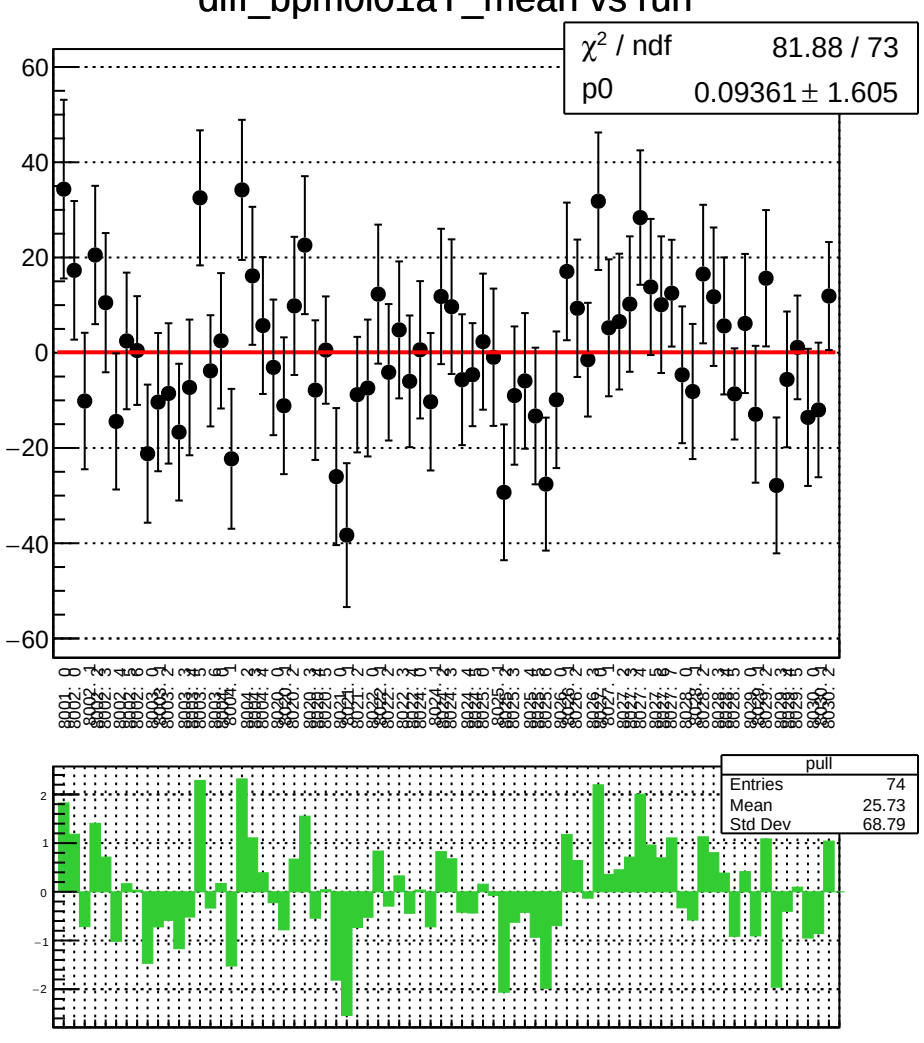

pull1D
Entries 74
Mean 0.00901
Std Dev 0.9815

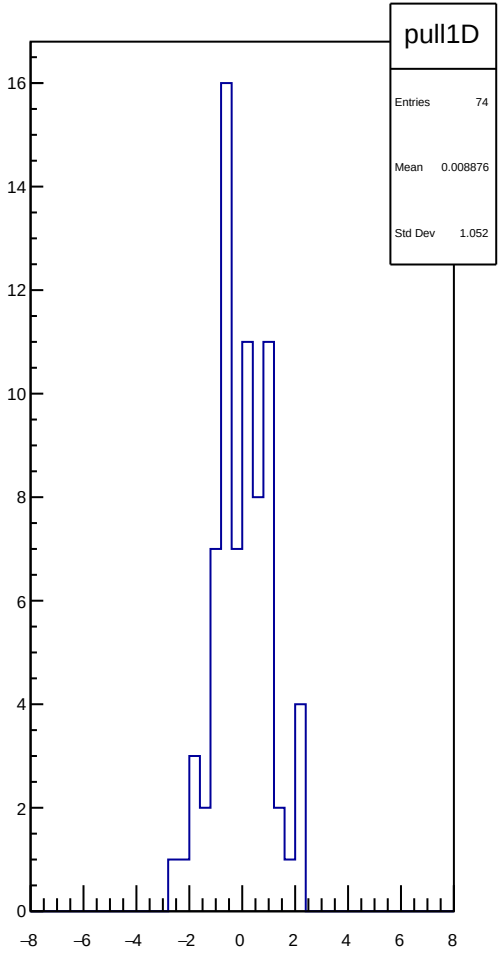

diff_bpm0i01Y_rms vs run
χ² / ndf 859.3 / 73
p0 1618 ± 1.346
1750
1700
1650
1600
1550
1500
1450

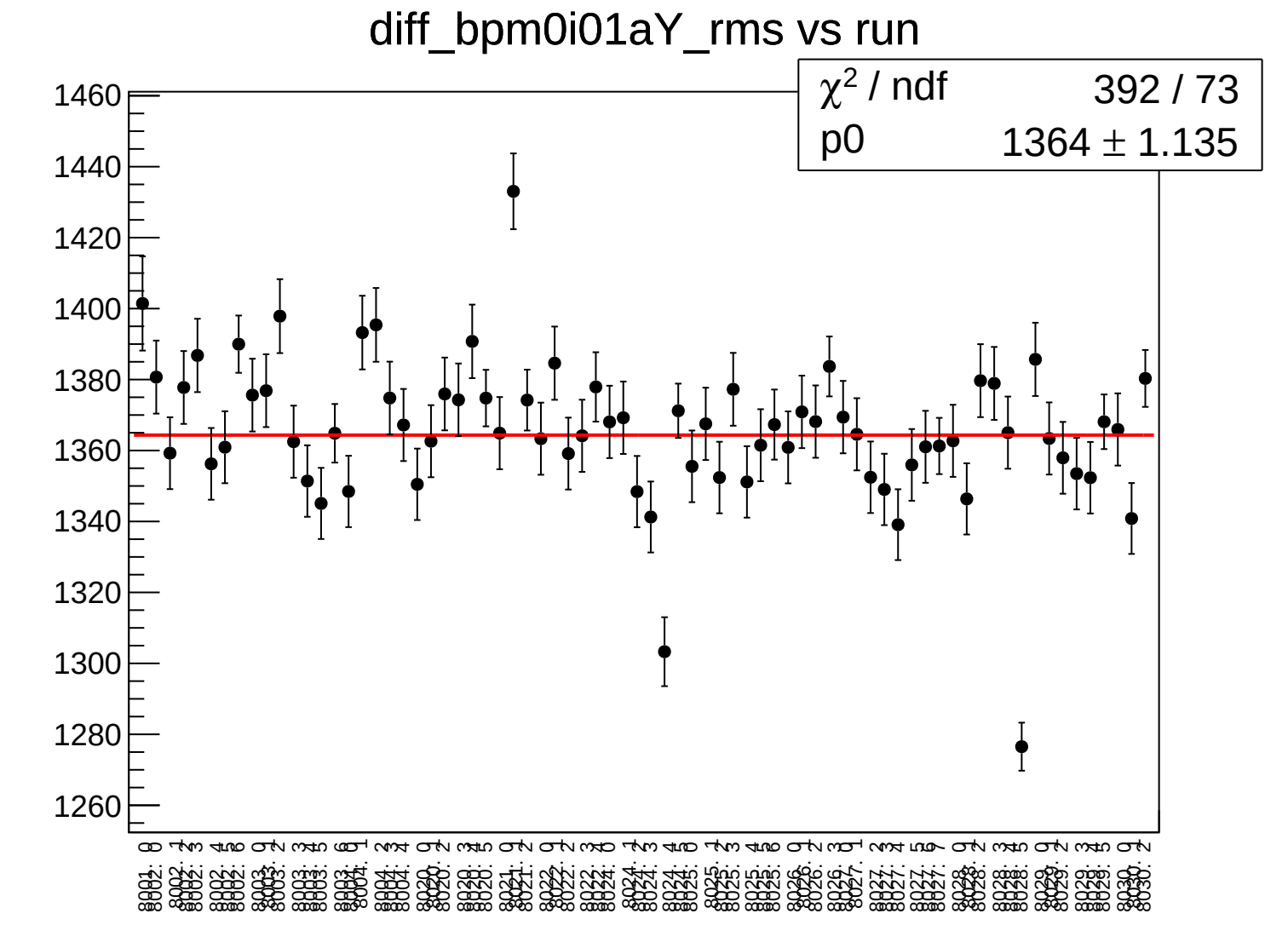

diff_bpm0i01aX_mean vs run
χ² / ndf 68.33 / 73
p0 −22.47 ± 1.843
pull
Entries 74
Mean 93.34
Std Dev 36.03

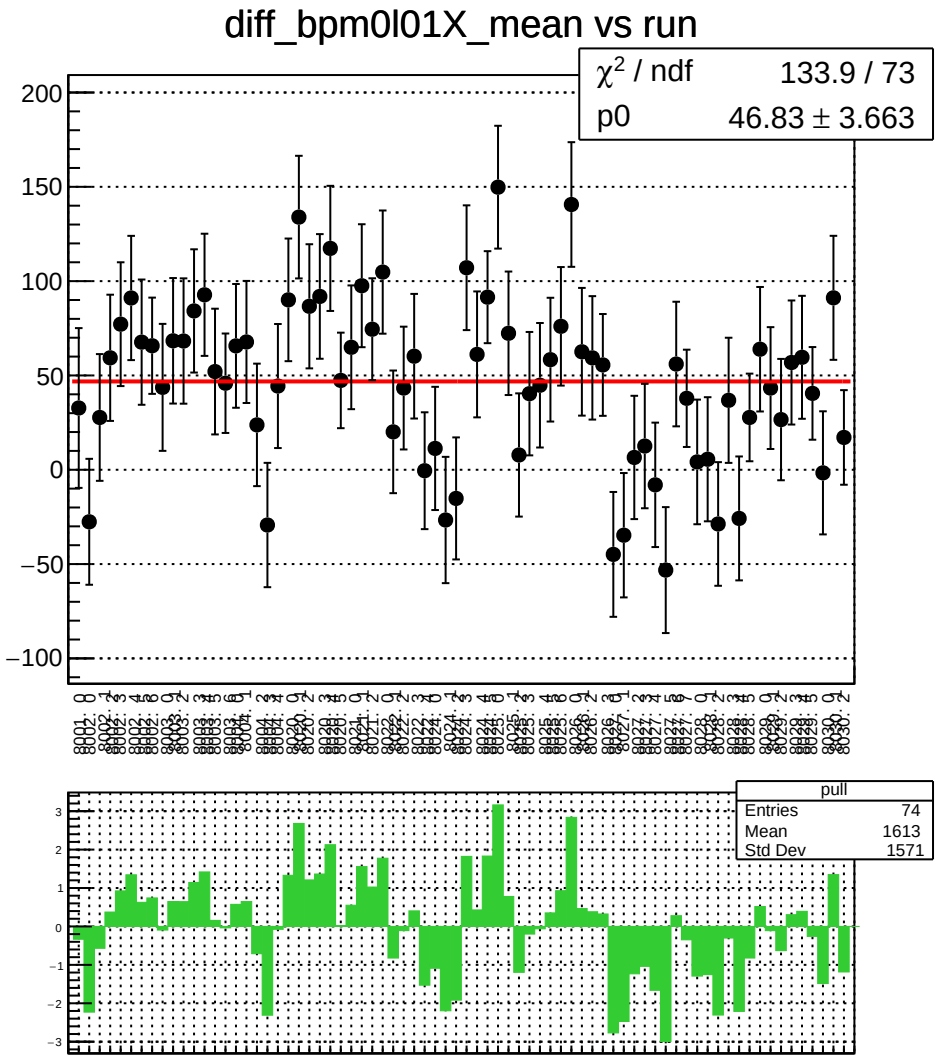

pull1D
Entries 74
Mean 0.0205
Std Dev 0.9607

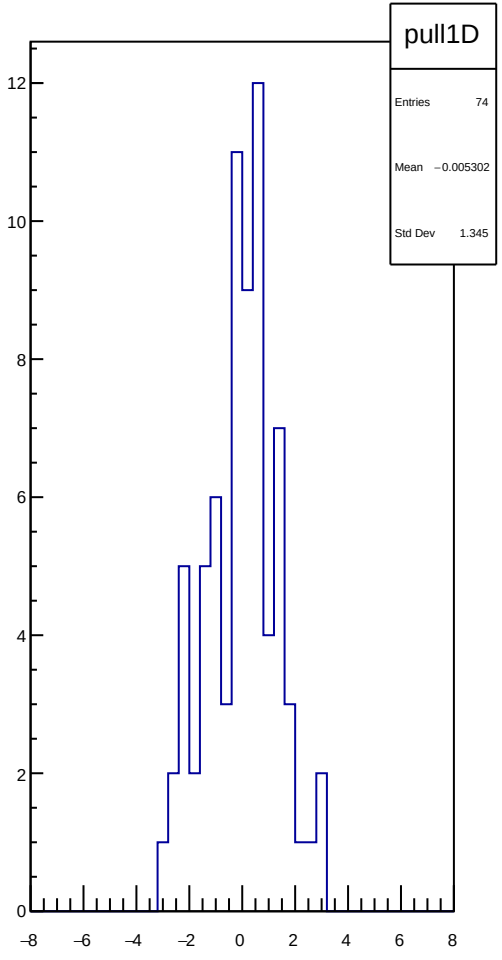

diff_bpm0i01aX_rms vs run
χ² / ndf 912.7 / 73
p0 1567 ± 1.303
1700
1650
1600
1550
1500
1450
1400

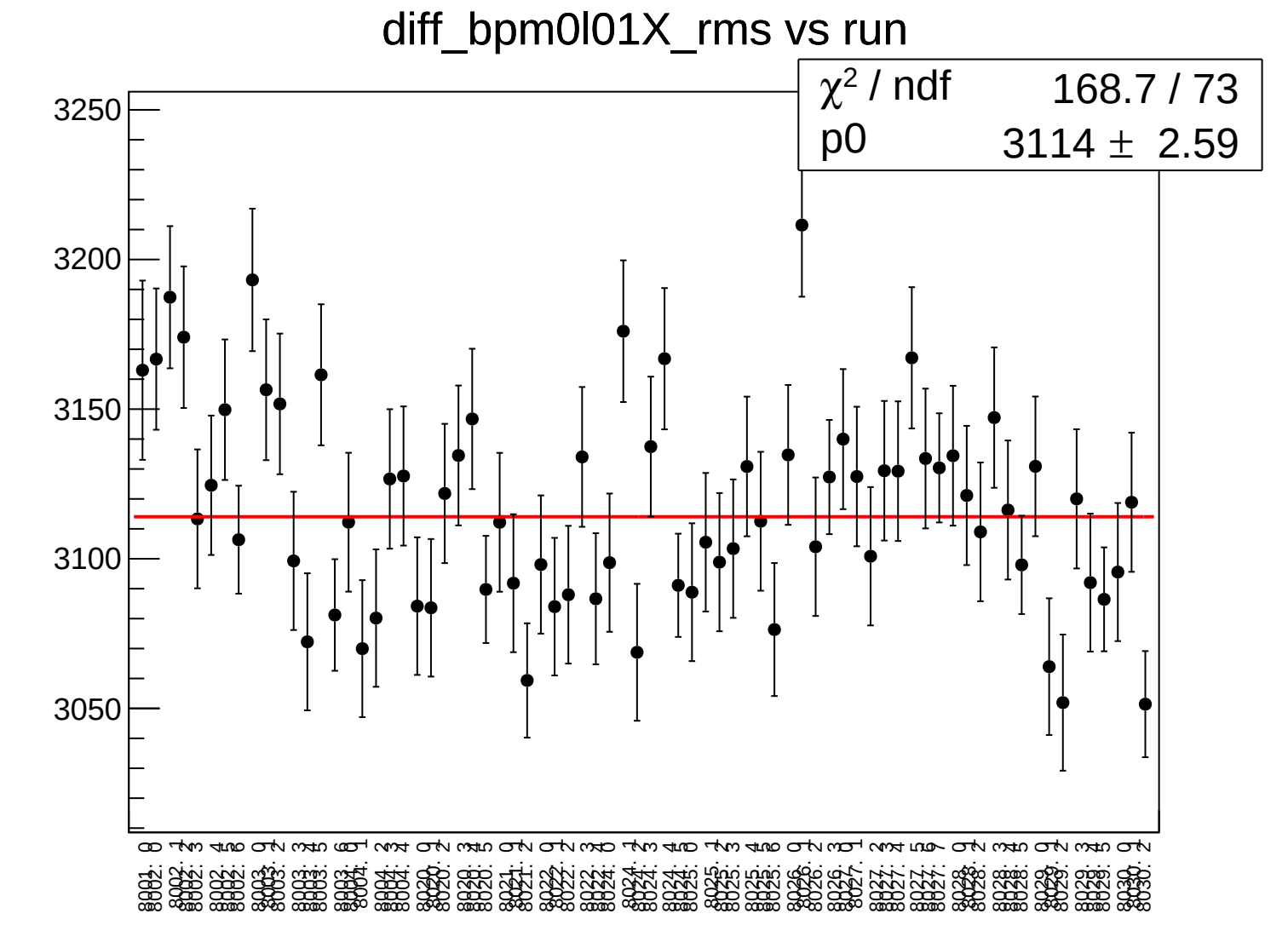

diff_bpm0i01aY_mean vs run
χ^2 / ndf 81.88 / 73
p0 0.09361 ± 1.605
pull
Entries 74
Mean 25.73
Std Dev 68.79

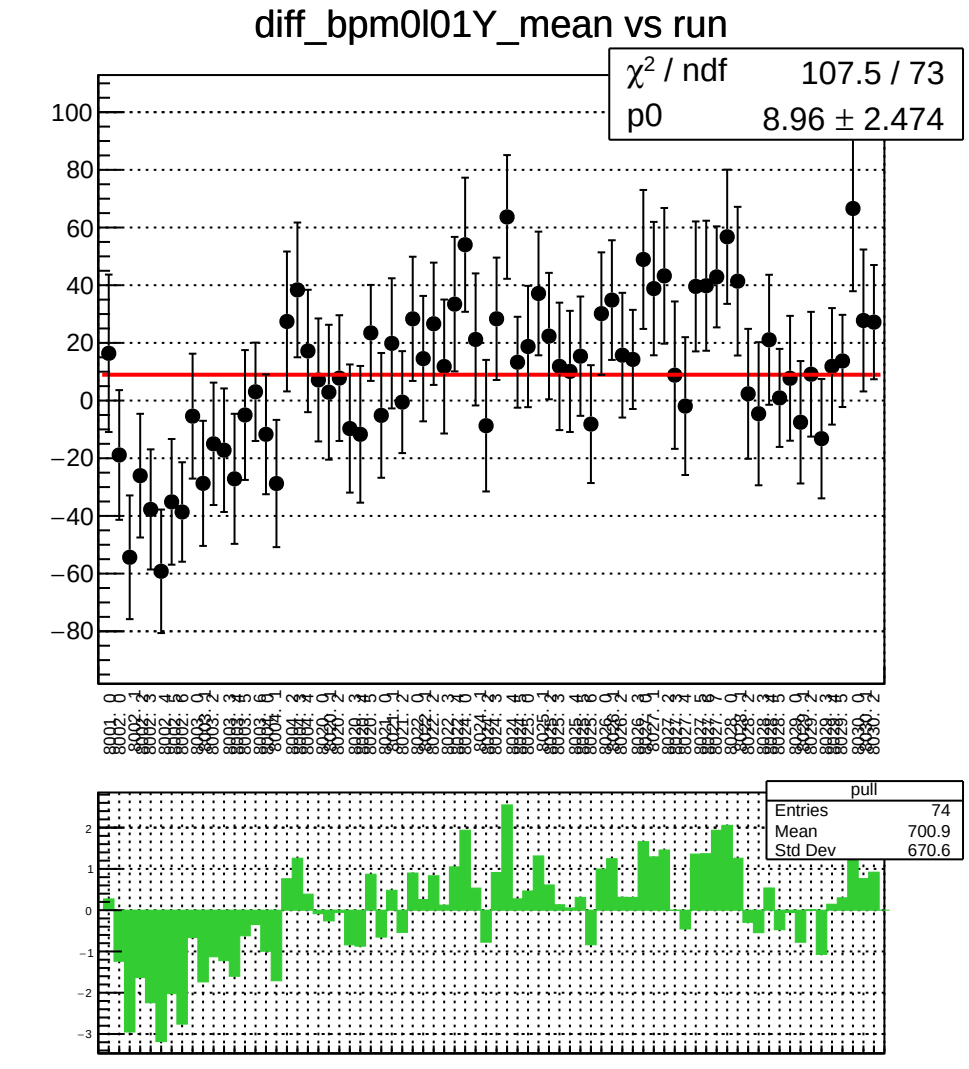

pull1D
Entries 74
Mean 0.008876
Std Dev 1.052

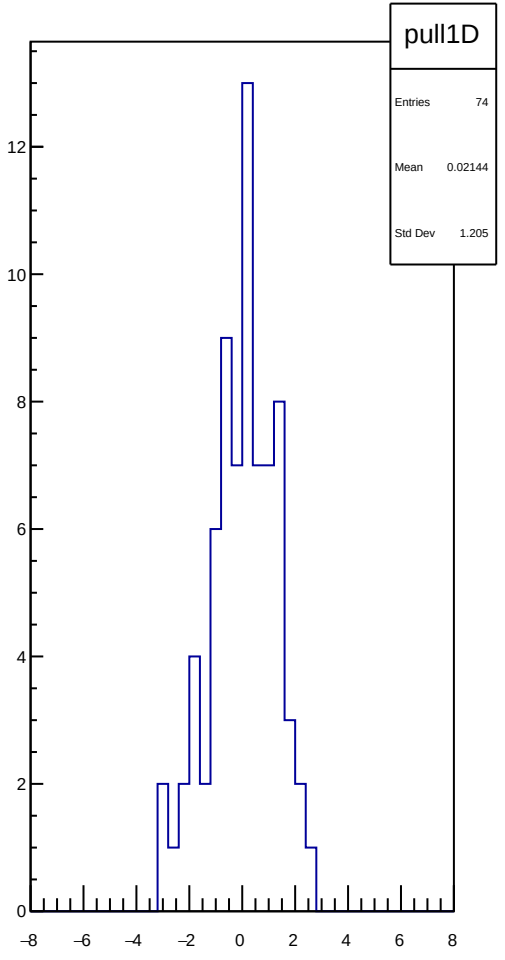

diff_bpm0i01aY_rms vs run
χ² / ndf 392 / 73
p0 1364 ± 1.135
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

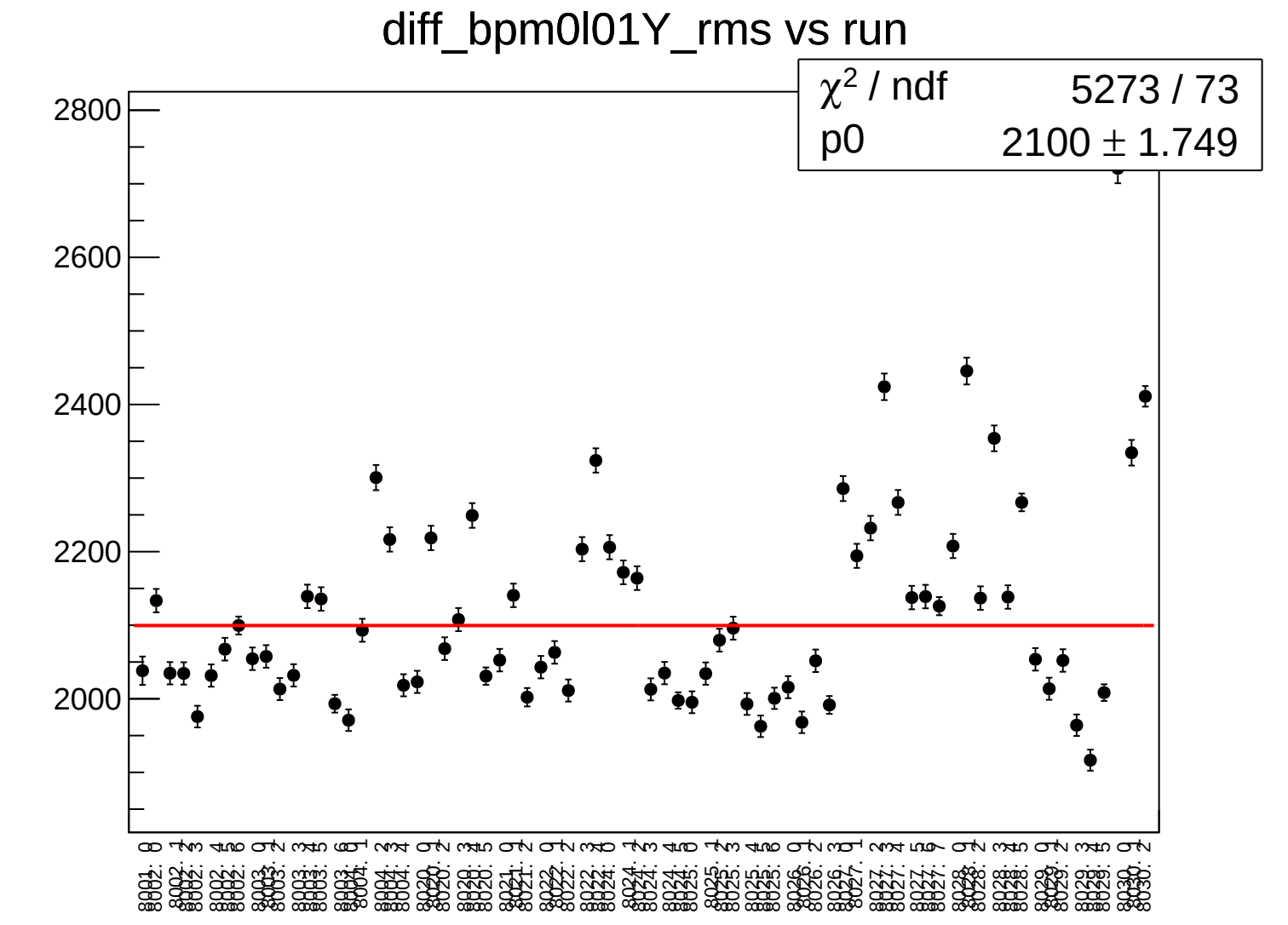

diff_bpm0l01X_mean vs run
χ^2 / ndf 133.9 / 73
p0 46.83 ± 3.663
pull
Entries 74
Mean 1613
Std Dev 1571

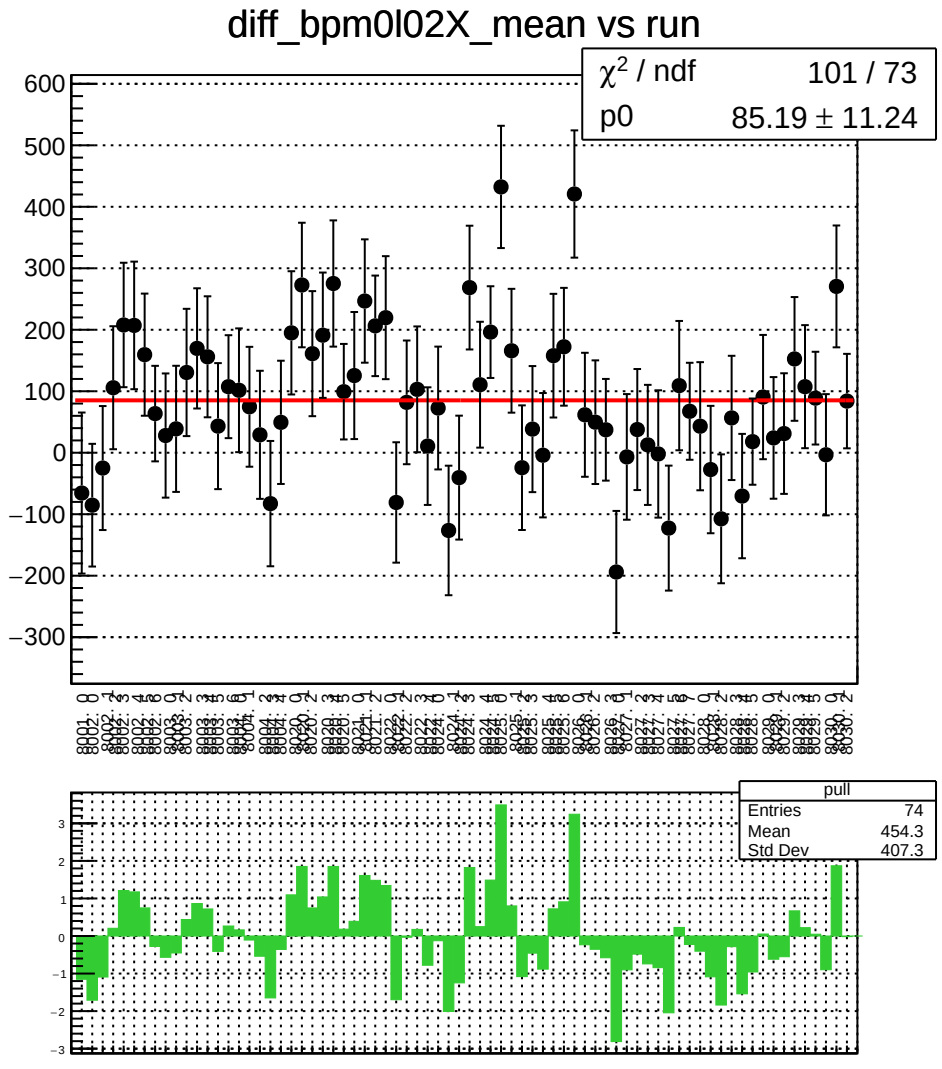

pull1D
Entries 74
Mean −0.005302
Std Dev 1.345

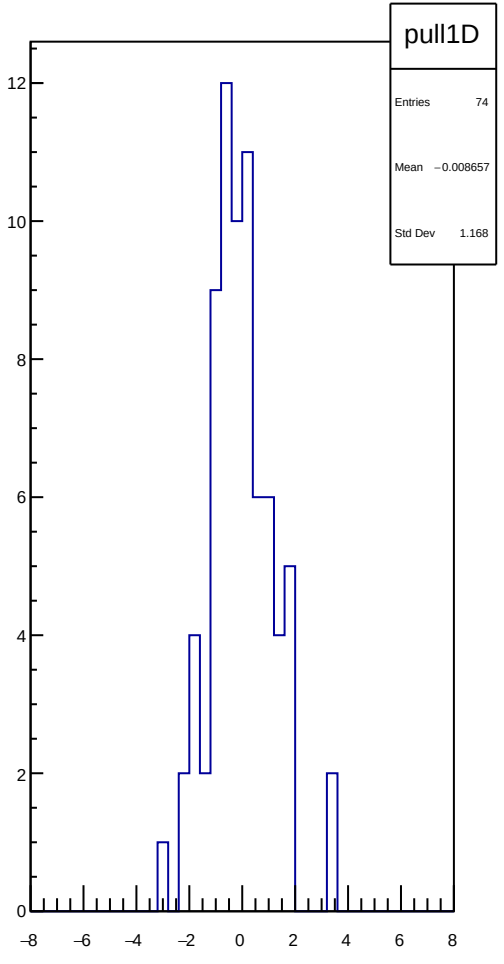

diff_bpm0l01X_rms vs run
χ² / ndf 168.7 / 73
p0 3114 ± 2.59
3250
3200
3150
3100
3050

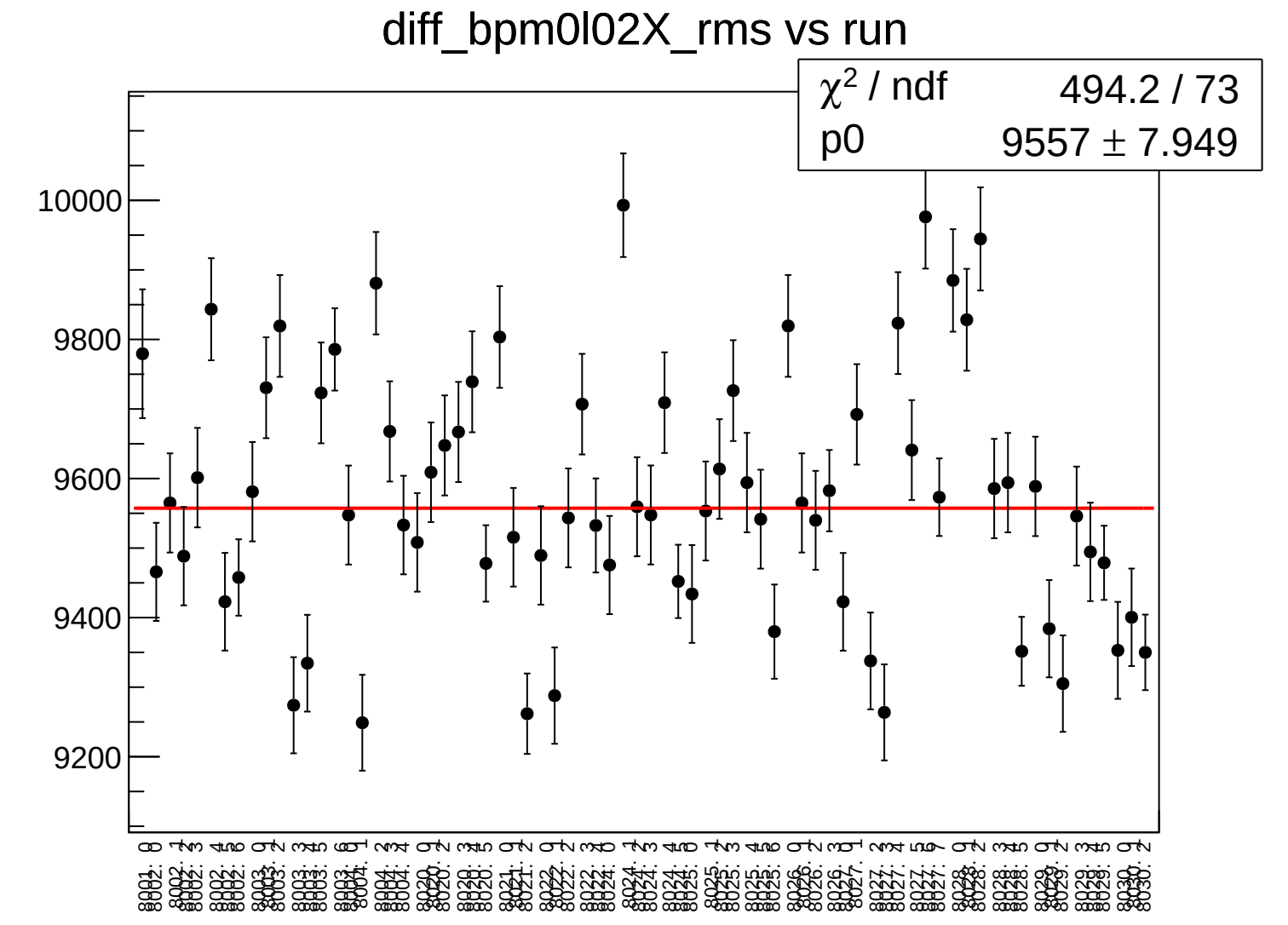

diff_bpm0l01Y_mean vs run
χ² / ndf 107.5 / 73
p0 8.96 ± 2.474
pull
Entries 74
Mean 700.9
Std Dev 670.6

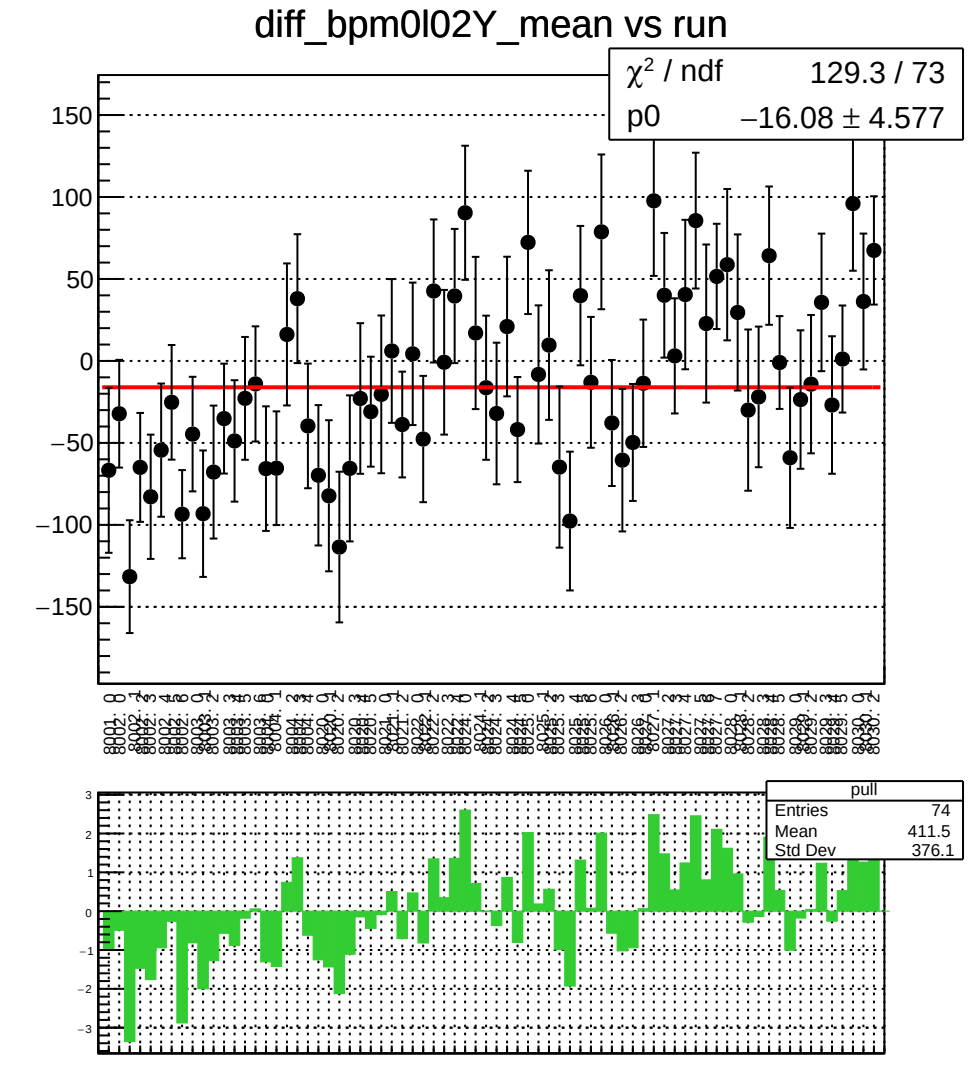

pull1D
Entries 74
Mean 0.02144
Std Dev 1.205

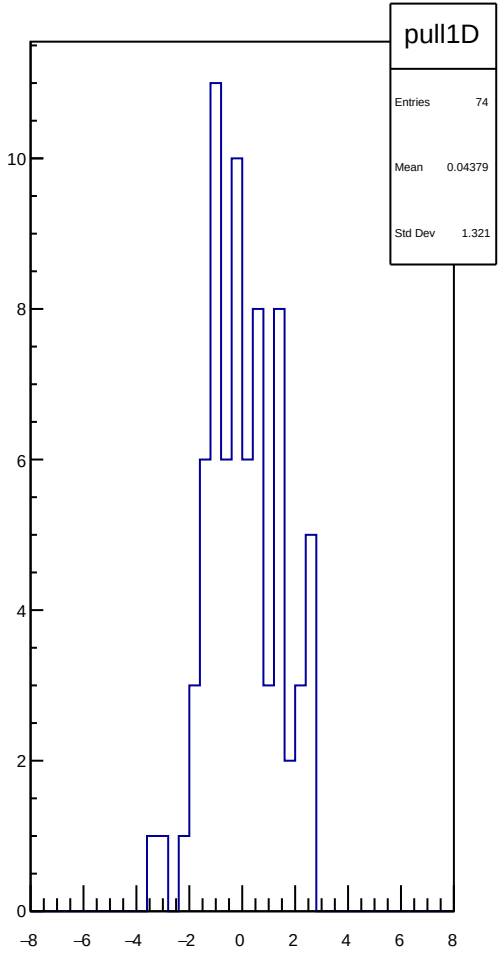

diff_bpm0l01Y_rms vs run
χ² / ndf 5273 / 73
p0 2100 ± 1.749
2800
2600
2400
2200
2000

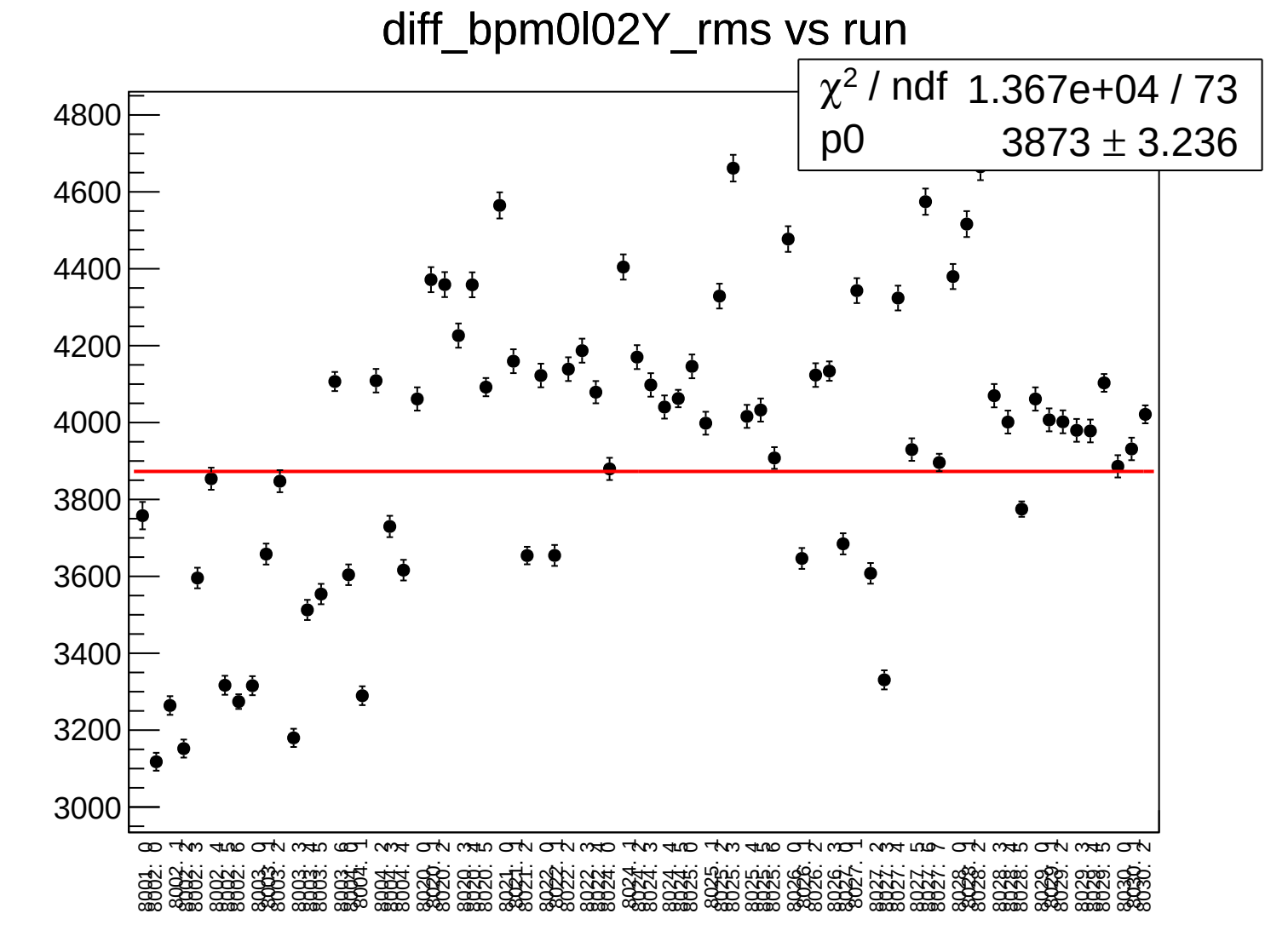

diff_bpm0l02X_mean vs run
χ^2 / ndf 101 / 73
p0 85.19 ± 11.24
pull
Entries 74
Mean 454.3
Std Dev 407.3

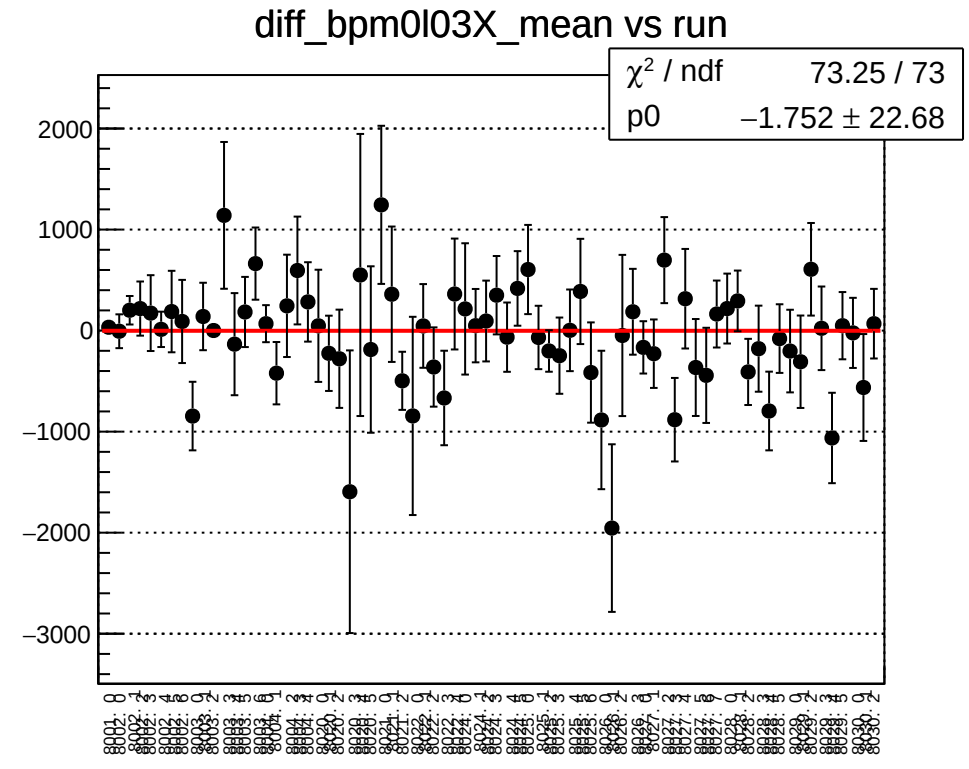

pull1D
Entries 74
Mean −0.008657
Std Dev 1.168

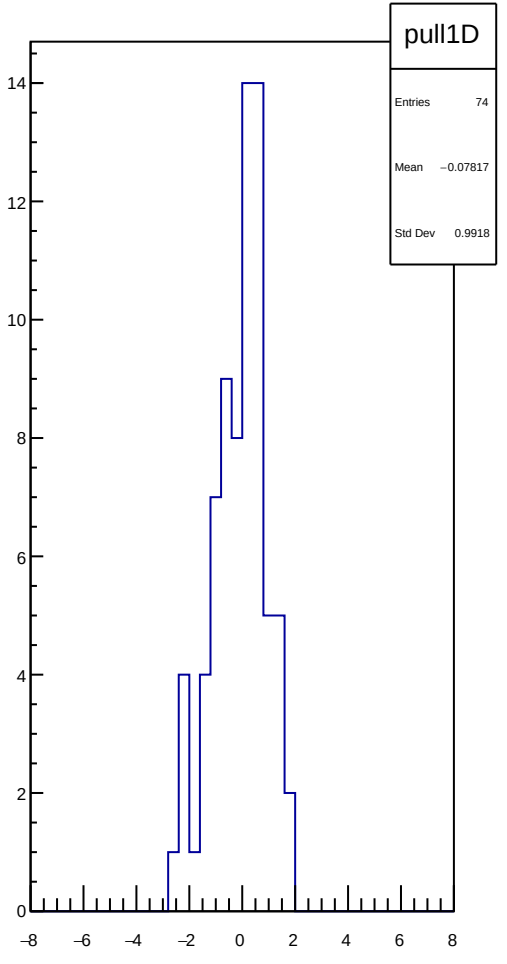

diff_bpm0l02X_rms vs run
χ² / ndf 494.2 / 73
p0 9557 ± 7.949
10000
9800
9600
9400
9200

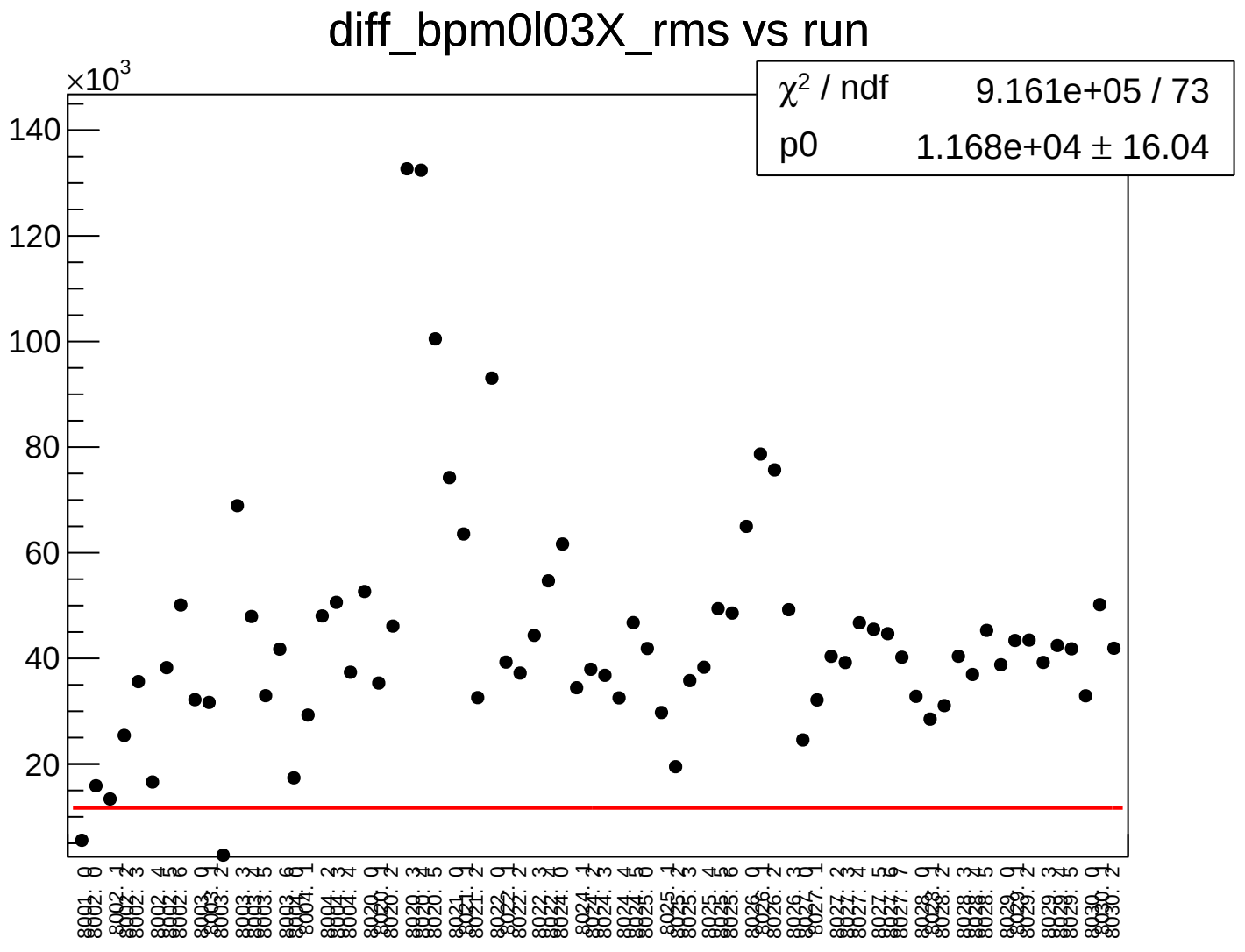

diff_bpm0l02Y_mean vs run
χ² / ndf 129.3 / 73
p0 −16.08 ± 4.577
pull
Entries 74
Mean 411.5
Std Dev 376.1

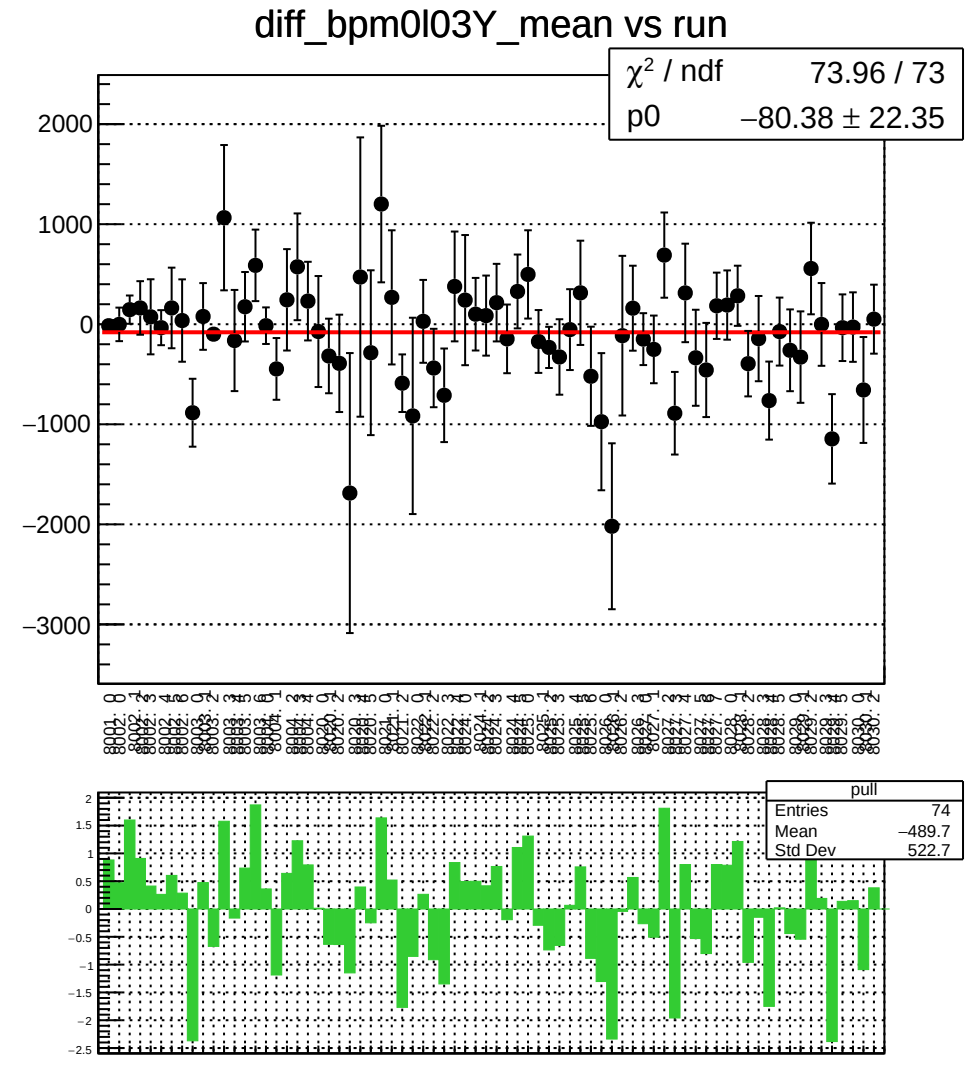

pull1D
Entries 74
Mean 0.04379
Std Dev 1.321

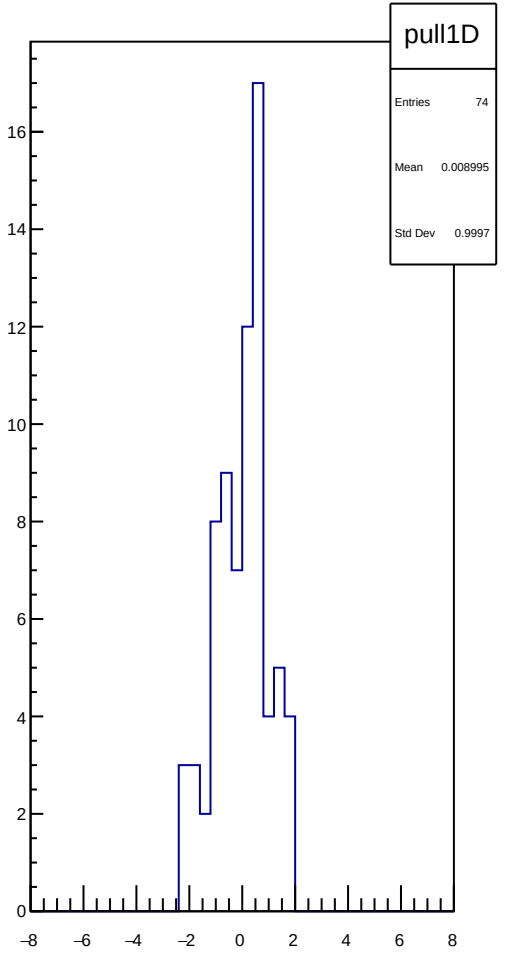

diff_bpm0l02Y_rms vs run
χ² / ndf 1.367e+04 / 73
p0 3873 ± 3.236
4800
4600
4400
4200
4000
3800
3600
3400
3200
3000

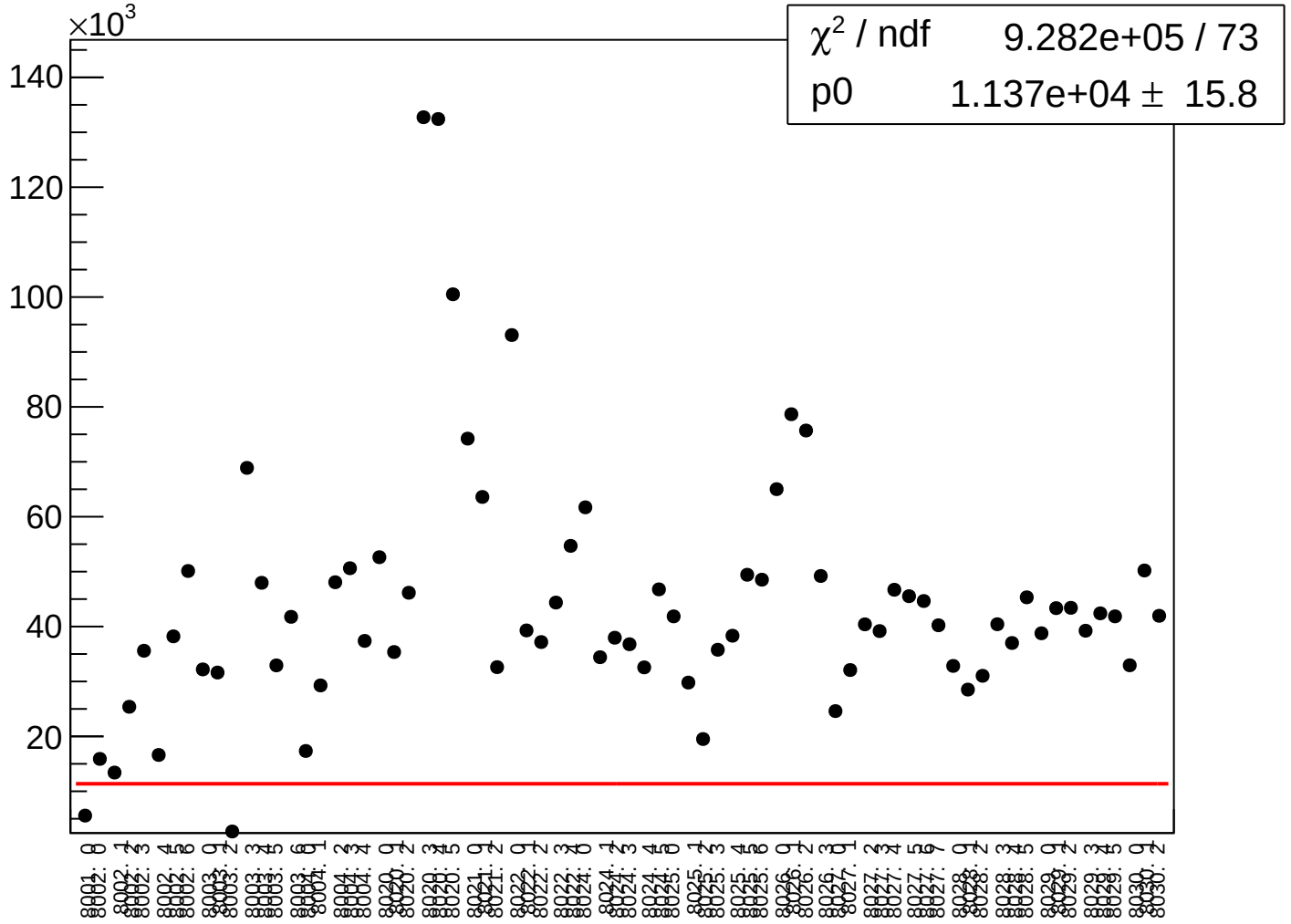

diff_bpm0l03X_mean vs run
χ² / ndf 73.25 / 73
p0 −1.752 ± 22.68
2000
1000
0
−1000
−2000
−3000
pull
Entries 74
Mean 104.7
Std Dev 66.12
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
−2.5

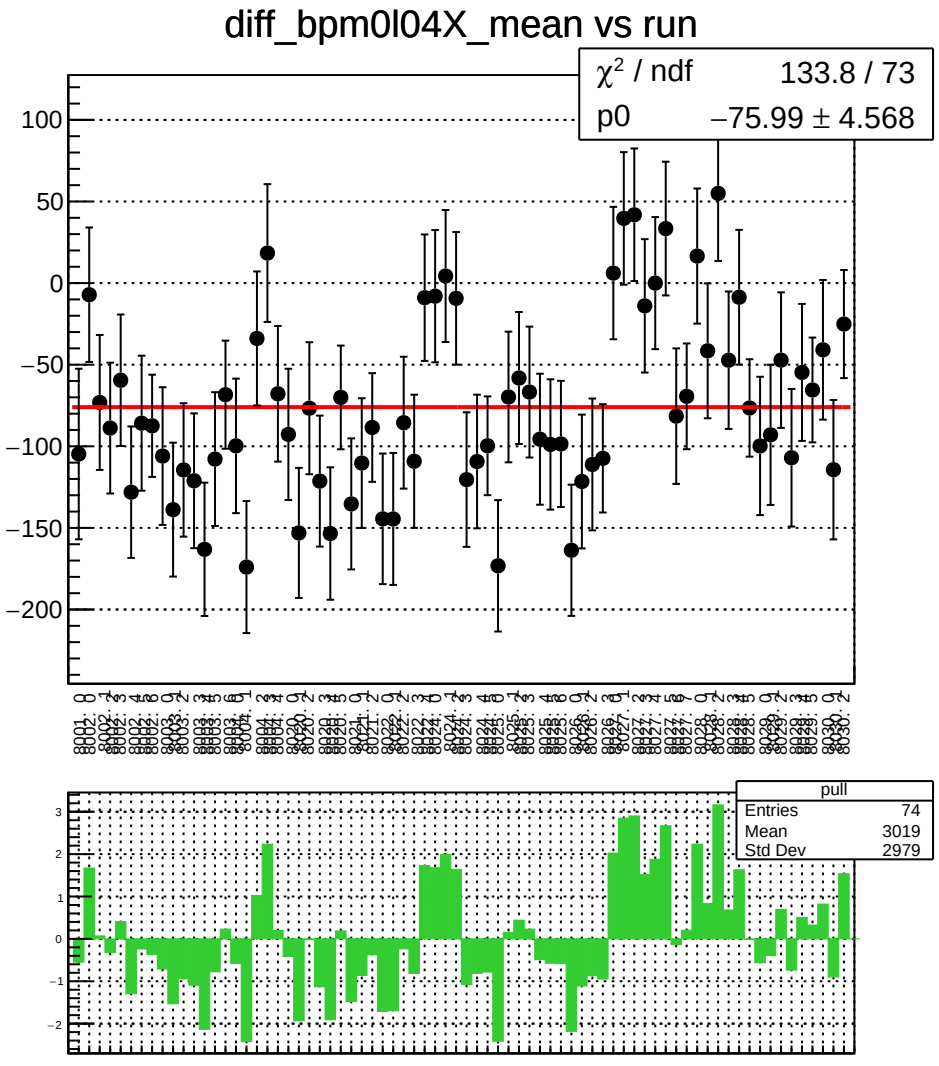

pull1D
Entries 74
Mean −0.07817
Std Dev 0.9918
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

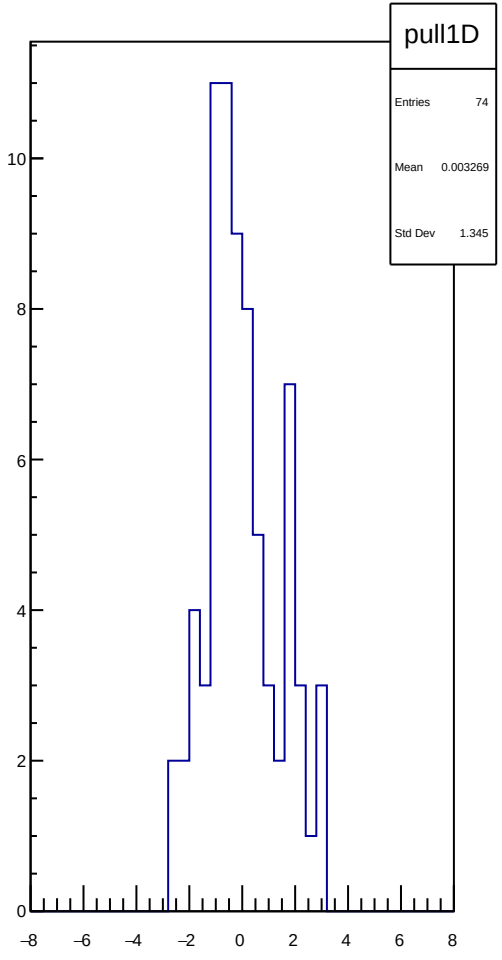

diff_bpm0l03X_rms vs run
×10^3
140
120
100
80
60
40
20
χ² / ndf 9.161e+05 / 73
p0 1.168e+04 ± 16.04

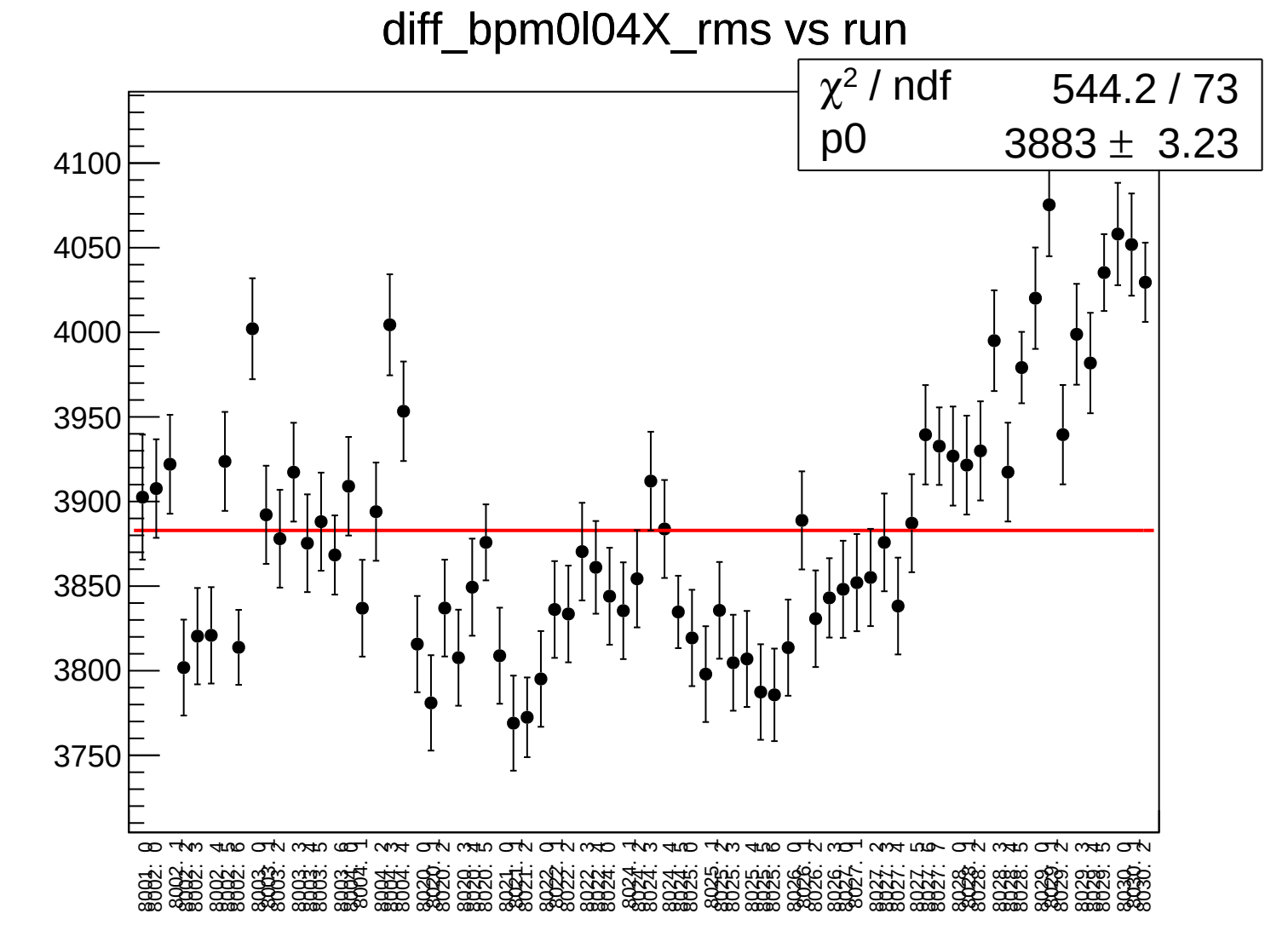

diff_bpm0l03Y_mean vs run
χ² / ndf 73.96 / 73
p0 −80.38 ± 22.35
pull
Entries 74
Mean −489.7
Std Dev 522.7

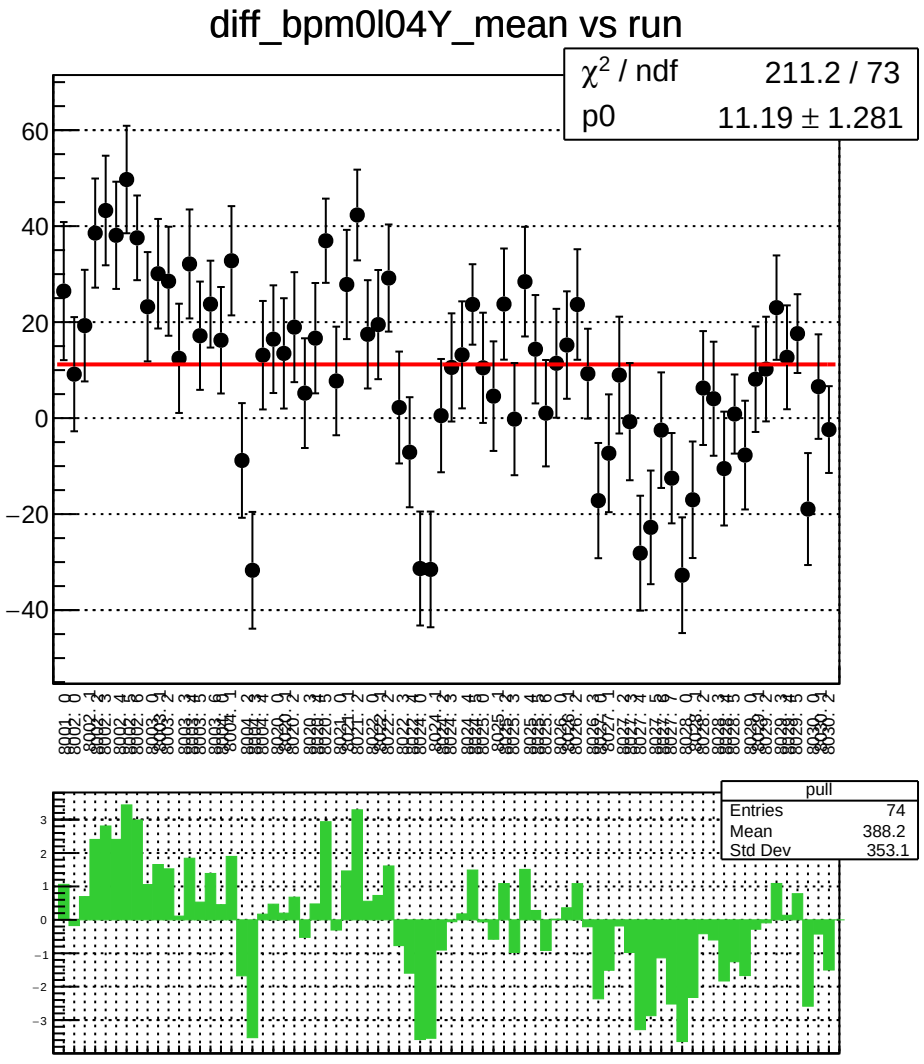

pull1D
Entries 74
Mean 0.008995
Std Dev 0.9997

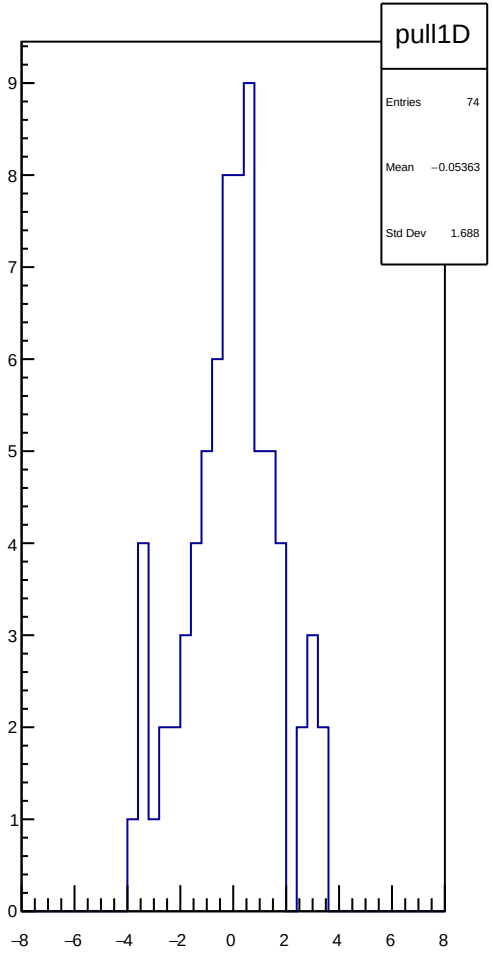

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 9.282e+05 / 73
p0 1.137e+04 ± 15.8
140
120
100
80
60
40
20

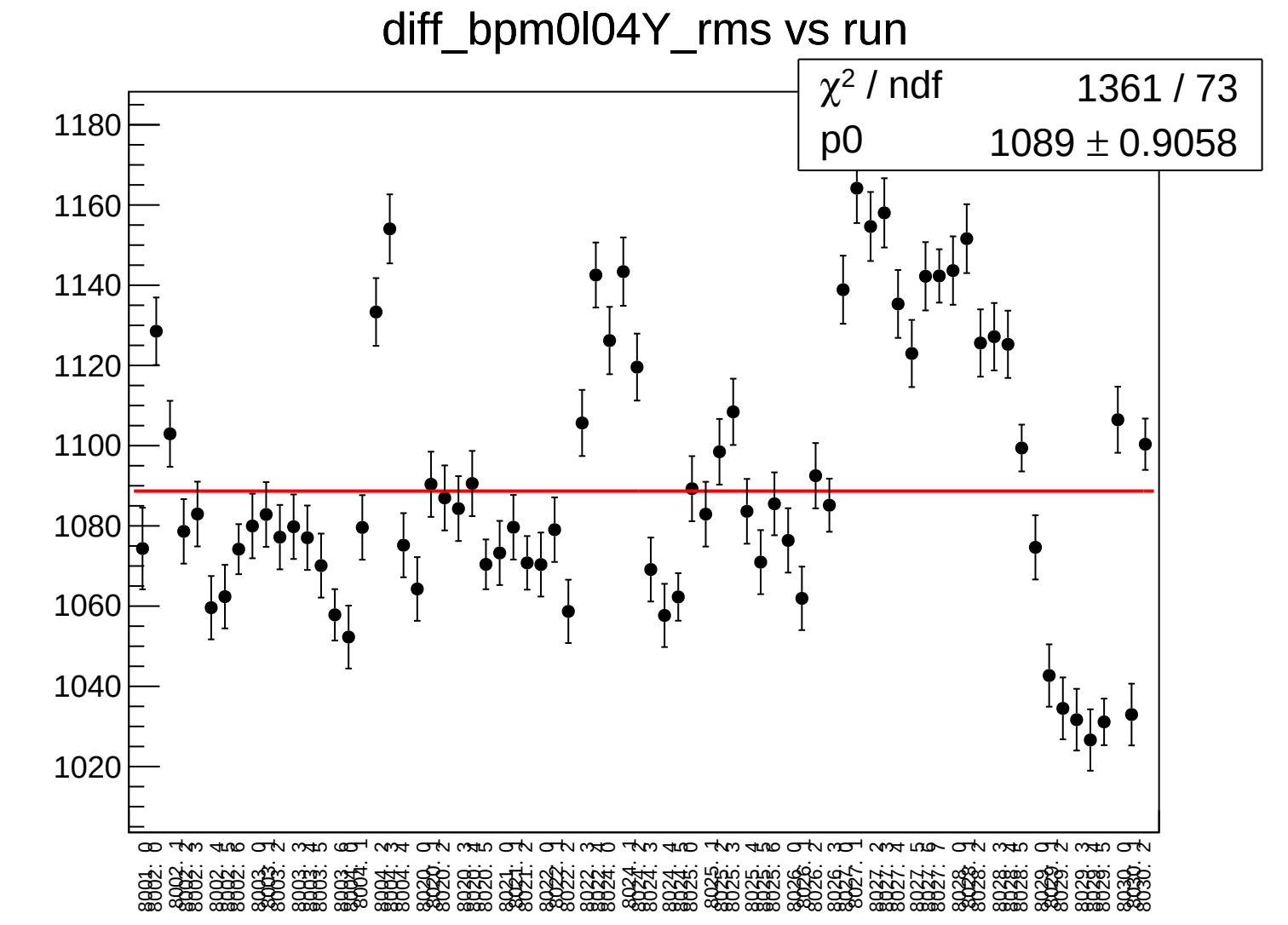

diff_bpm0l04X_mean vs run
χ² / ndf 133.8 / 73
p0 −75.99 ± 4.568
pull
Entries 74
Mean 3019
Std Dev 2979

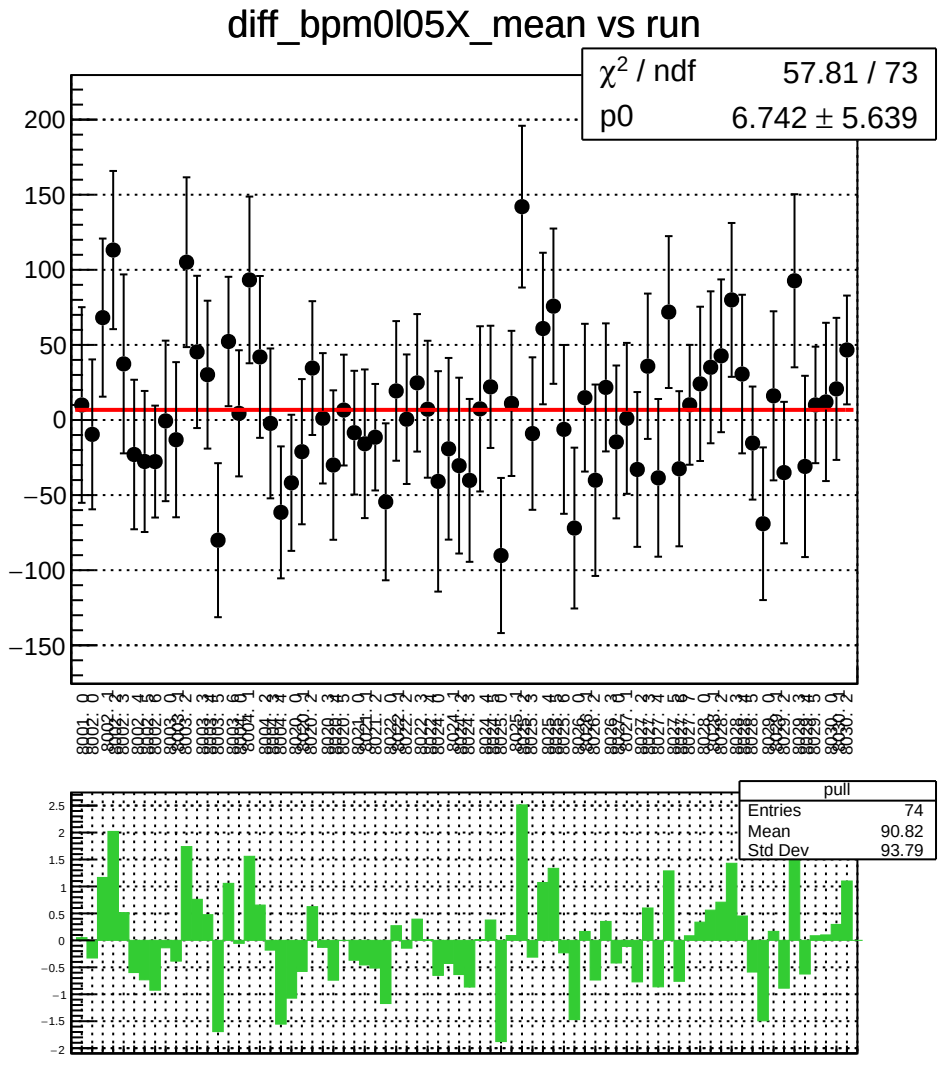

pull1D
Entries 74
Mean 0.003269
Std Dev 1.345

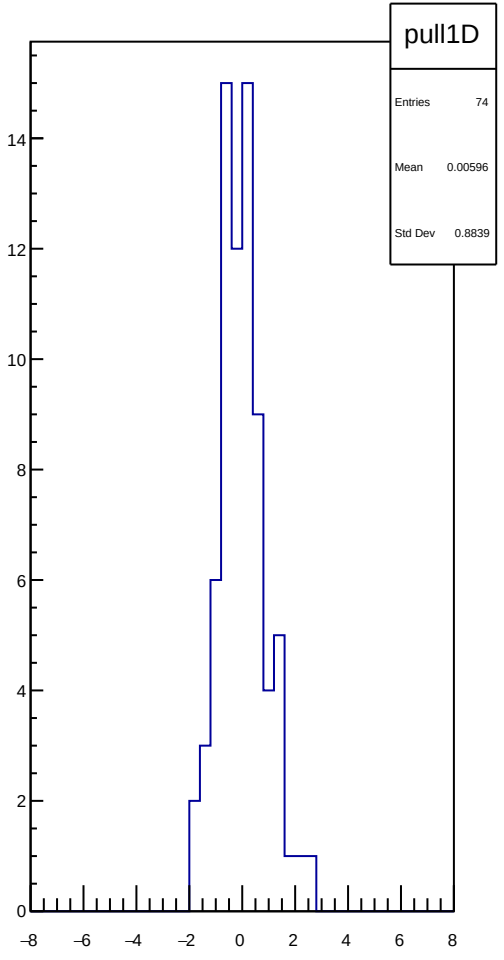

diff_bpm0l04X_rms vs run
χ² / ndf 544.2 / 73
p0 3883 ± 3.23
4100
4050
4000
3950
3900
3850
3800
3750

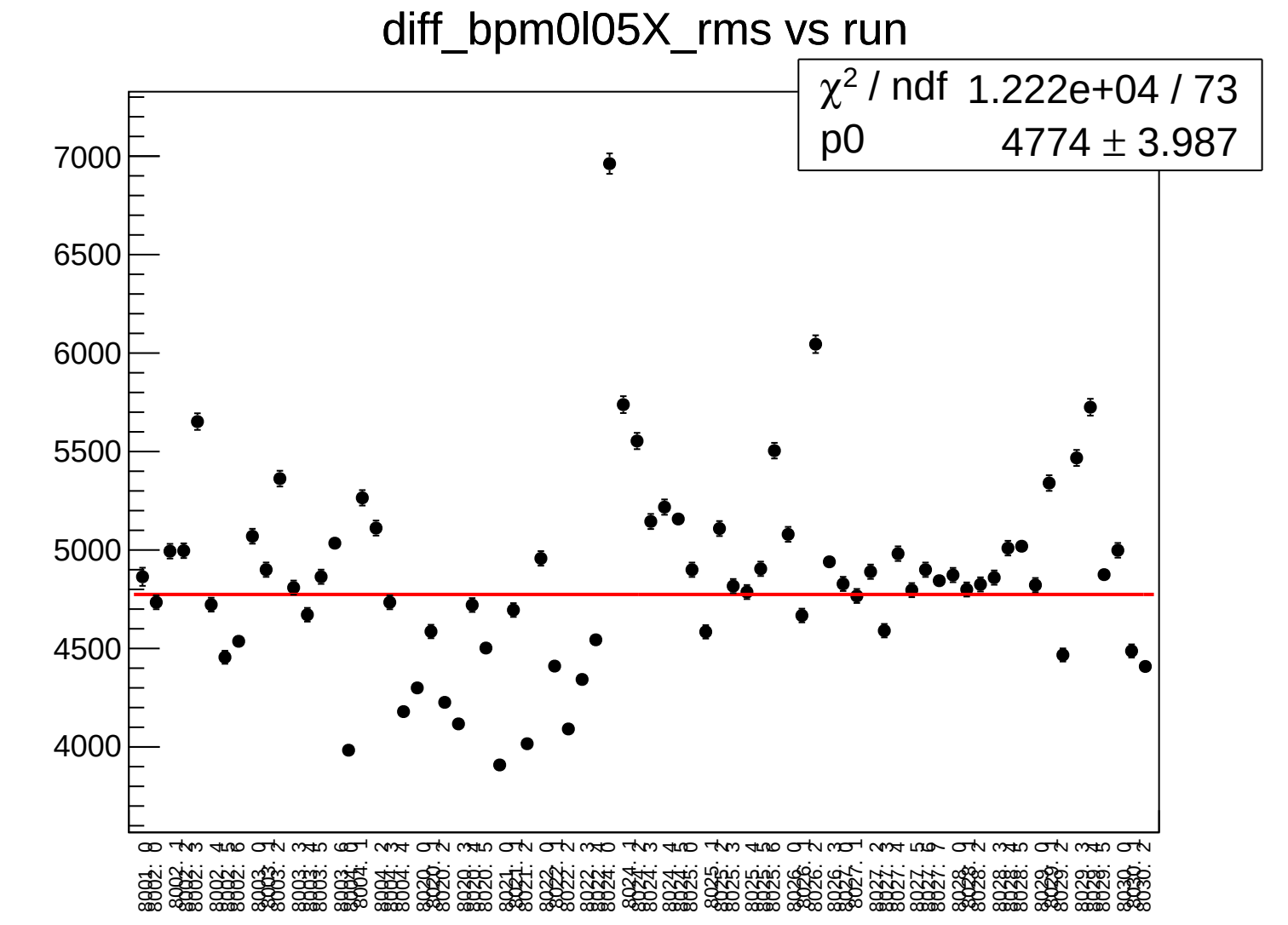

diff_bpm0l04Y_mean vs run
χ^2 / ndf 211.2 / 73
p0 11.19 ± 1.281
pull
Entries 74
Mean 388.2
Std Dev 353.1

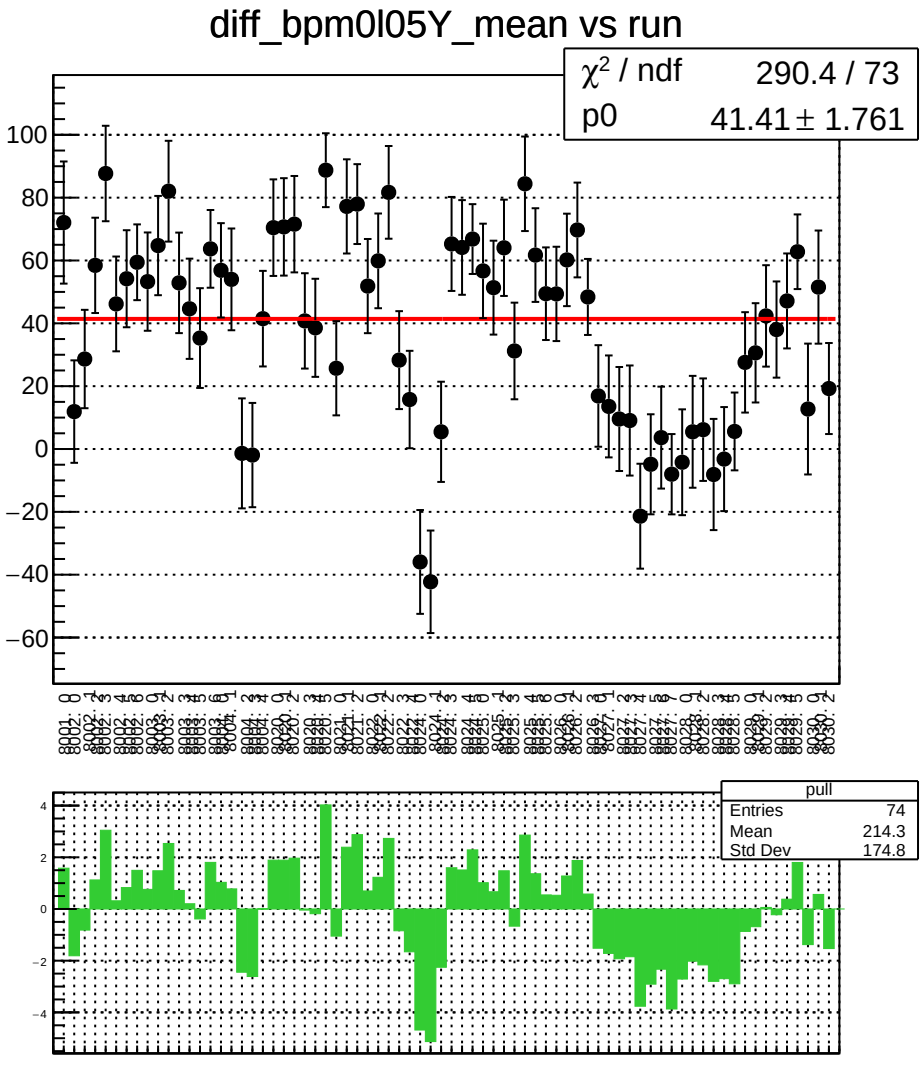

pull1D
Entries 74
Mean −0.05363
Std Dev 1.688

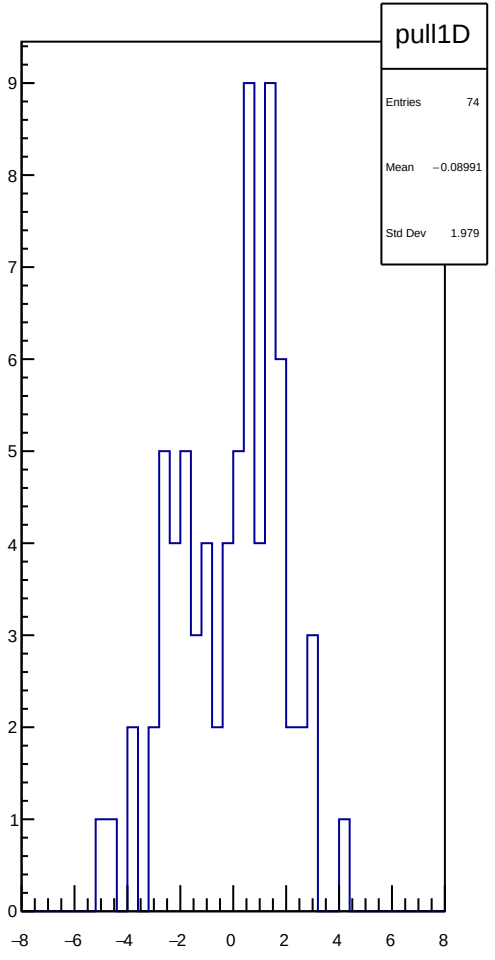

diff_bpm0l04Y_rms vs run
χ² / ndf 1361 / 73
p0 1089 ± 0.9058
1180
1160
1140
1120
1100
1080
1060
1040
1020

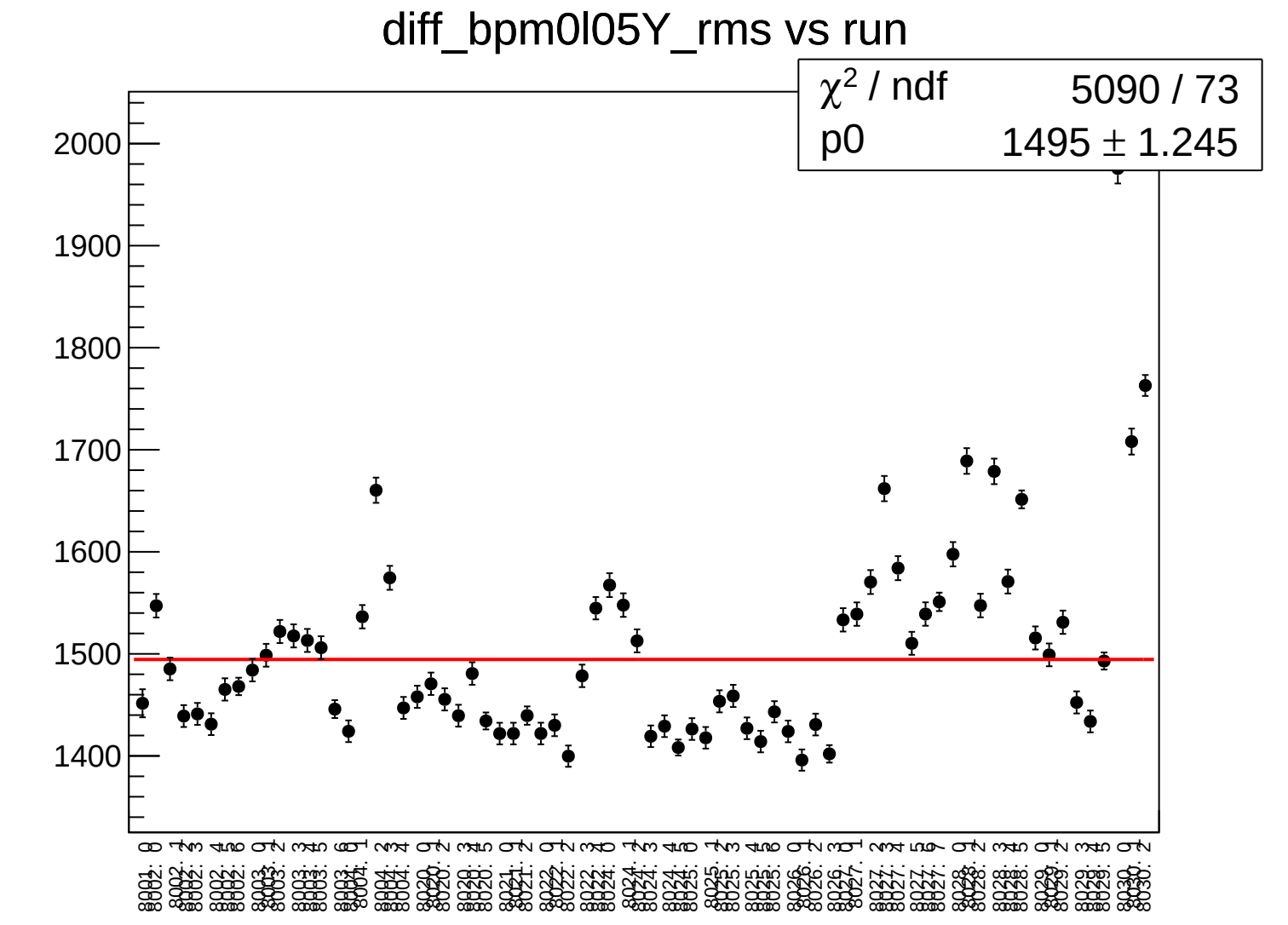

diff_bpm0l05X_mean vs run
χ² / ndf 57.81 / 73
p0 6.742 ± 5.639
pull
Entries 74
Mean 90.82
Std Dev 93.79

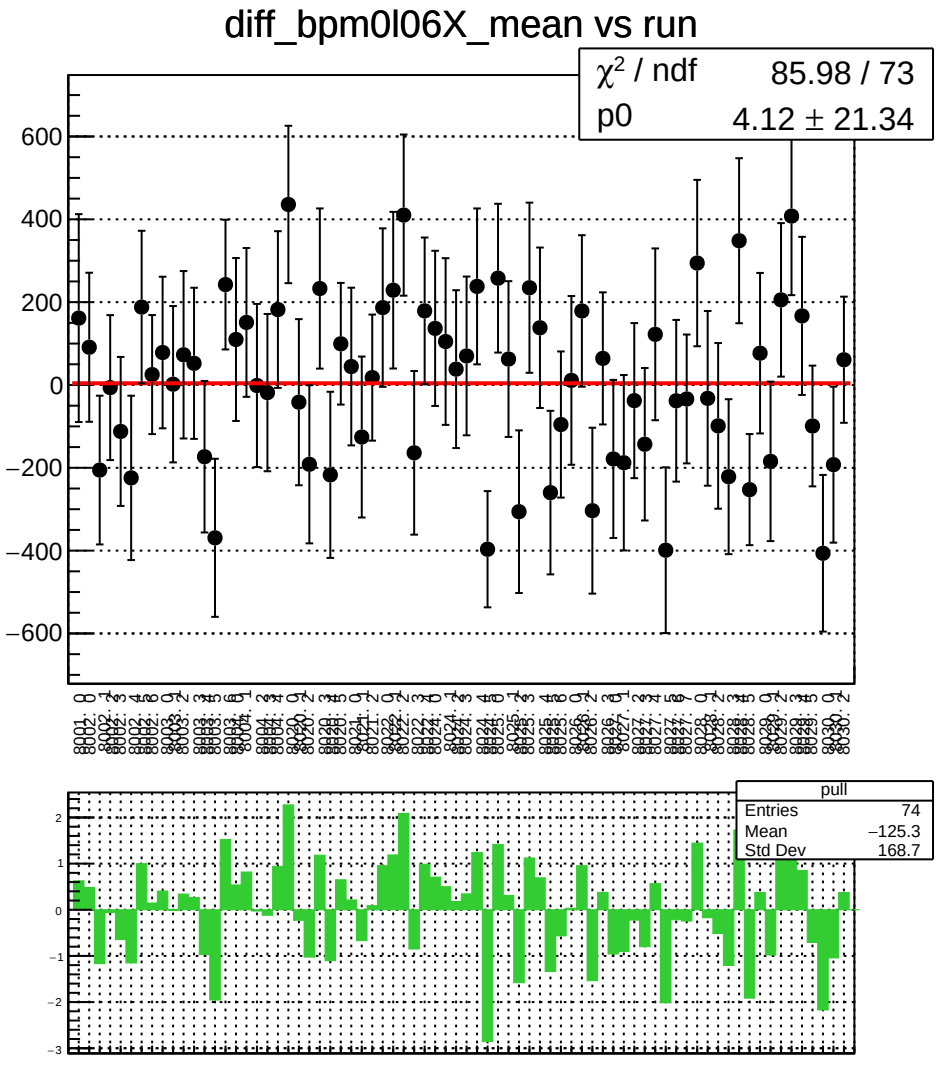

pull1D
Entries 74
Mean 0.00596
Std Dev 0.8839

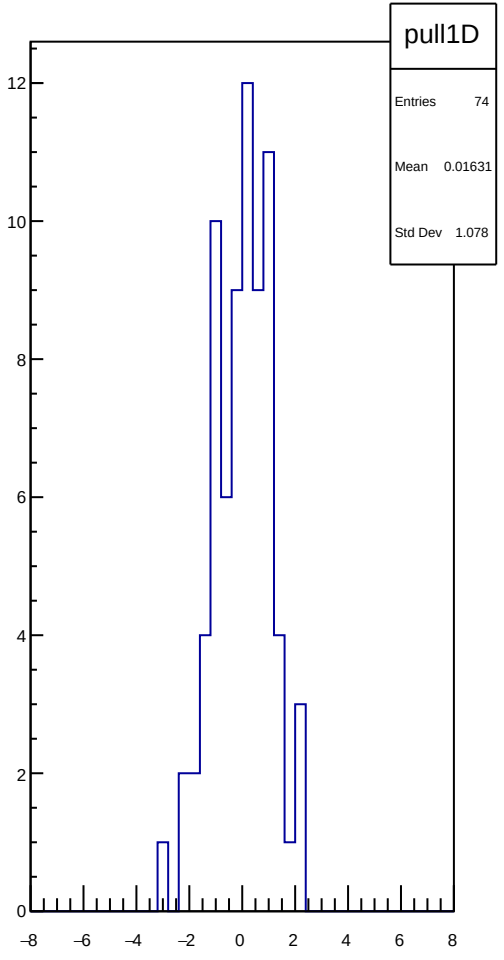

diff_bpm0l05X_rms vs run
χ² / ndf 1.222e+04 / 73
p0 4774 ± 3.987
7000
6500
6000
5500
5000
4500
4000

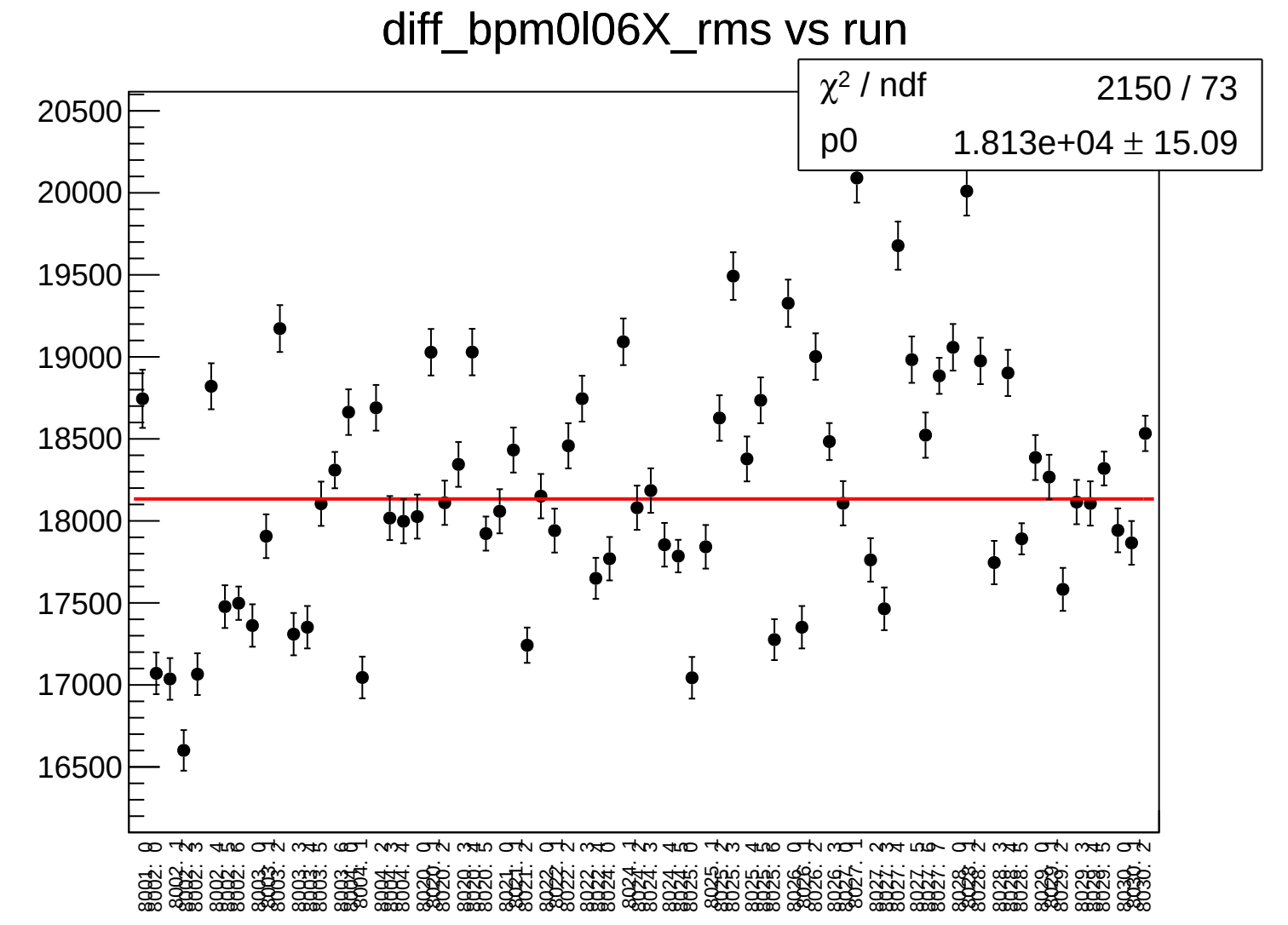

diff_bpm0l05Y_mean vs run
χ² / ndf 290.4 / 73
p0 41.41 ± 1.761
pull
Entries 74
Mean 214.3
Std Dev 174.8

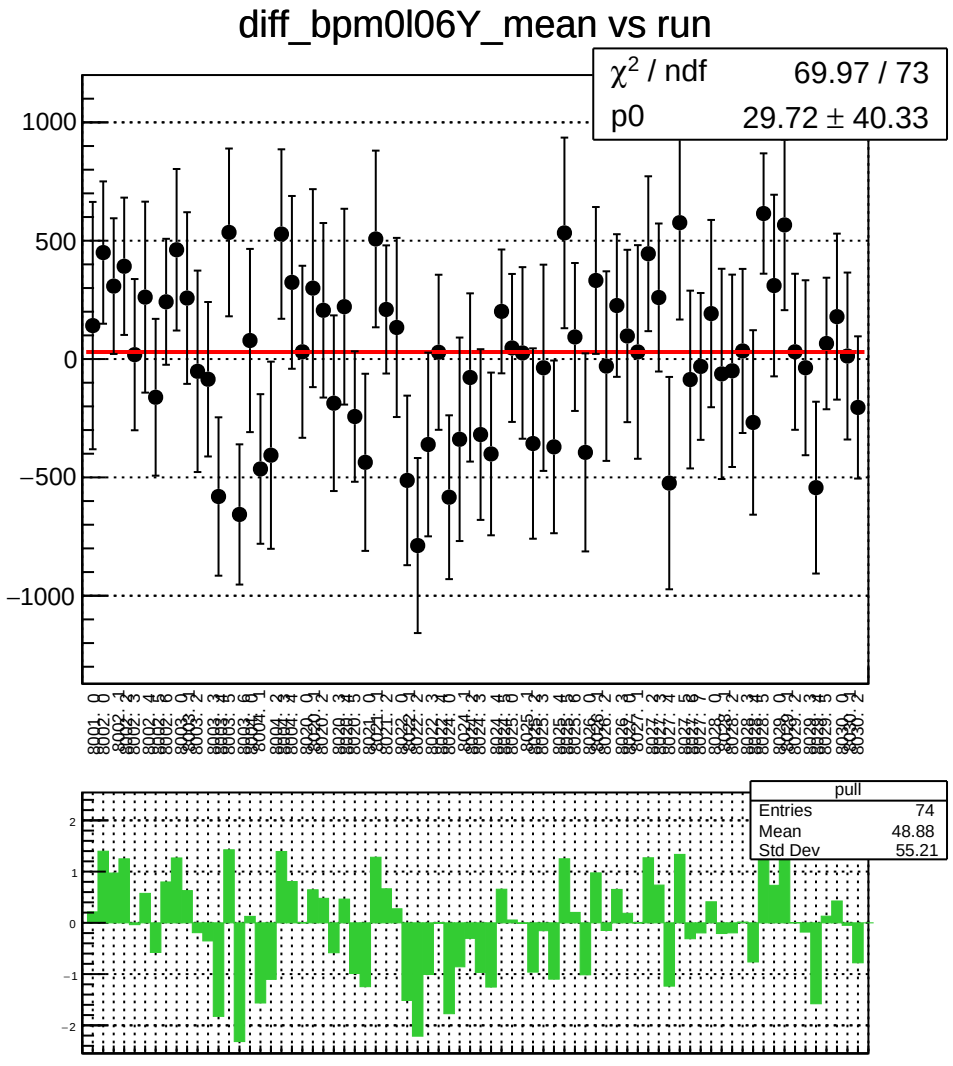

pull1D
Entries 74
Mean −0.08991
Std Dev 1.979

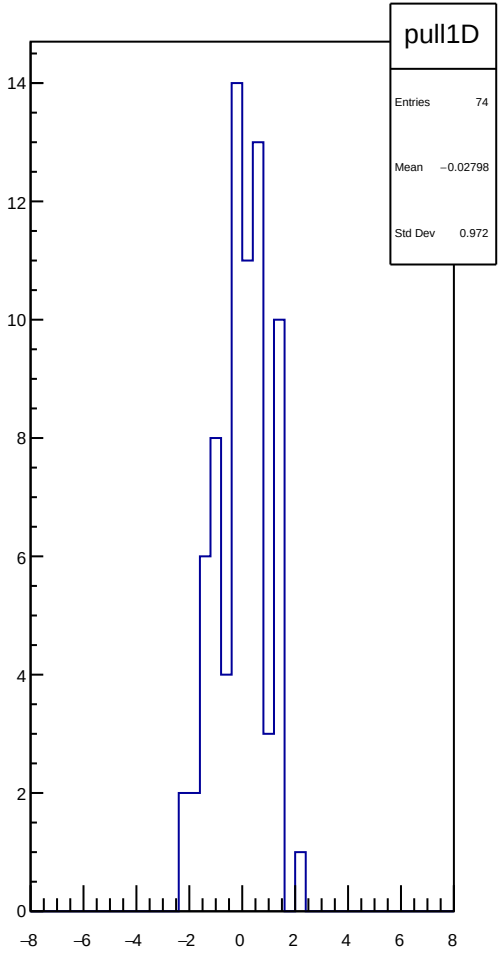

diff_bpm0l05Y_rms vs run
χ² / ndf 5090 / 73
p0 1495 ± 1.245
2000
1900
1800
1700
1600
1500
1400

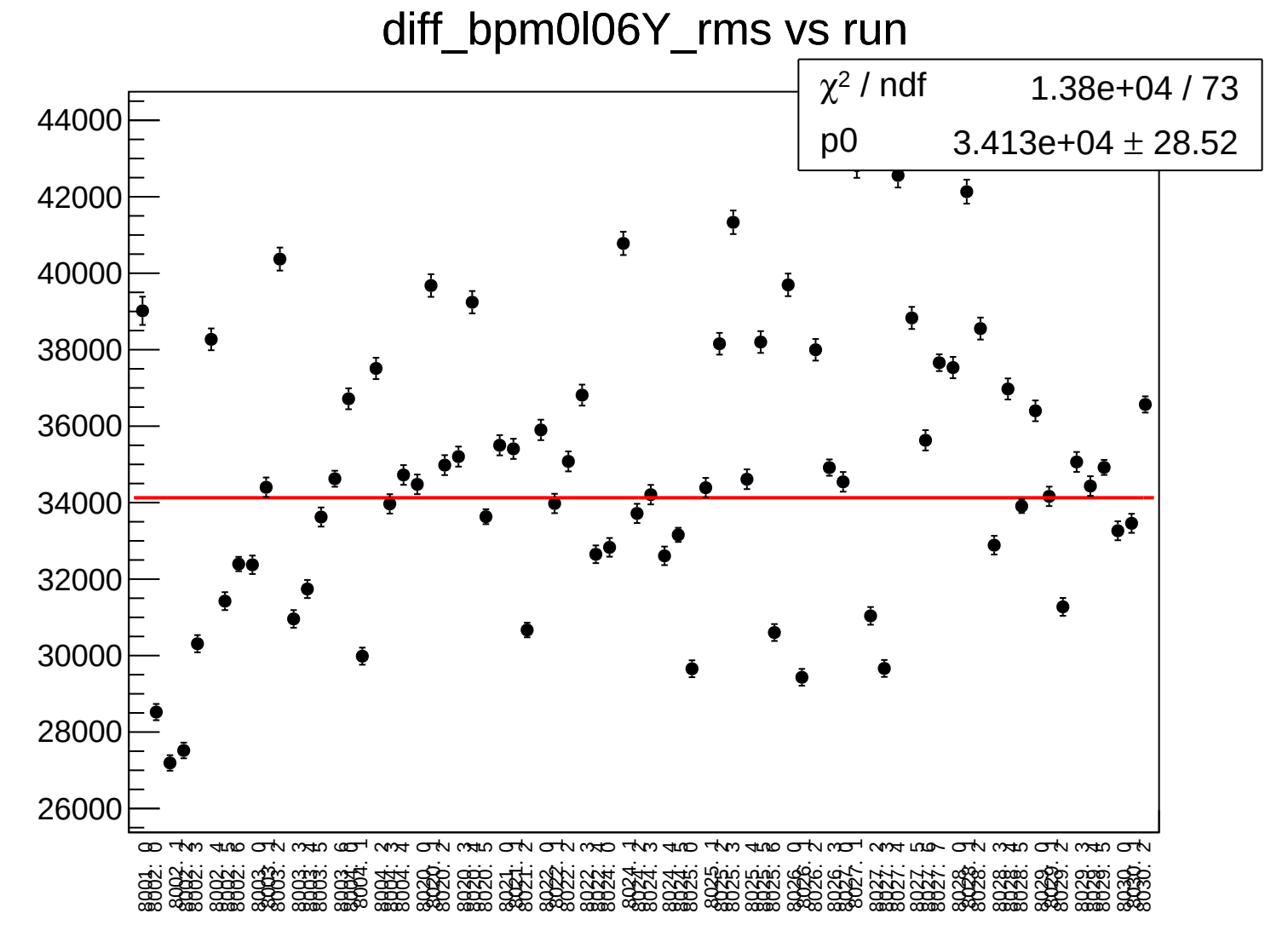

diff_bpm0l06X_mean vs run
χ² / ndf 85.98 / 73
p0 4.12 ± 21.34
pull
Entries 74
Mean −125.3
Std Dev 168.7

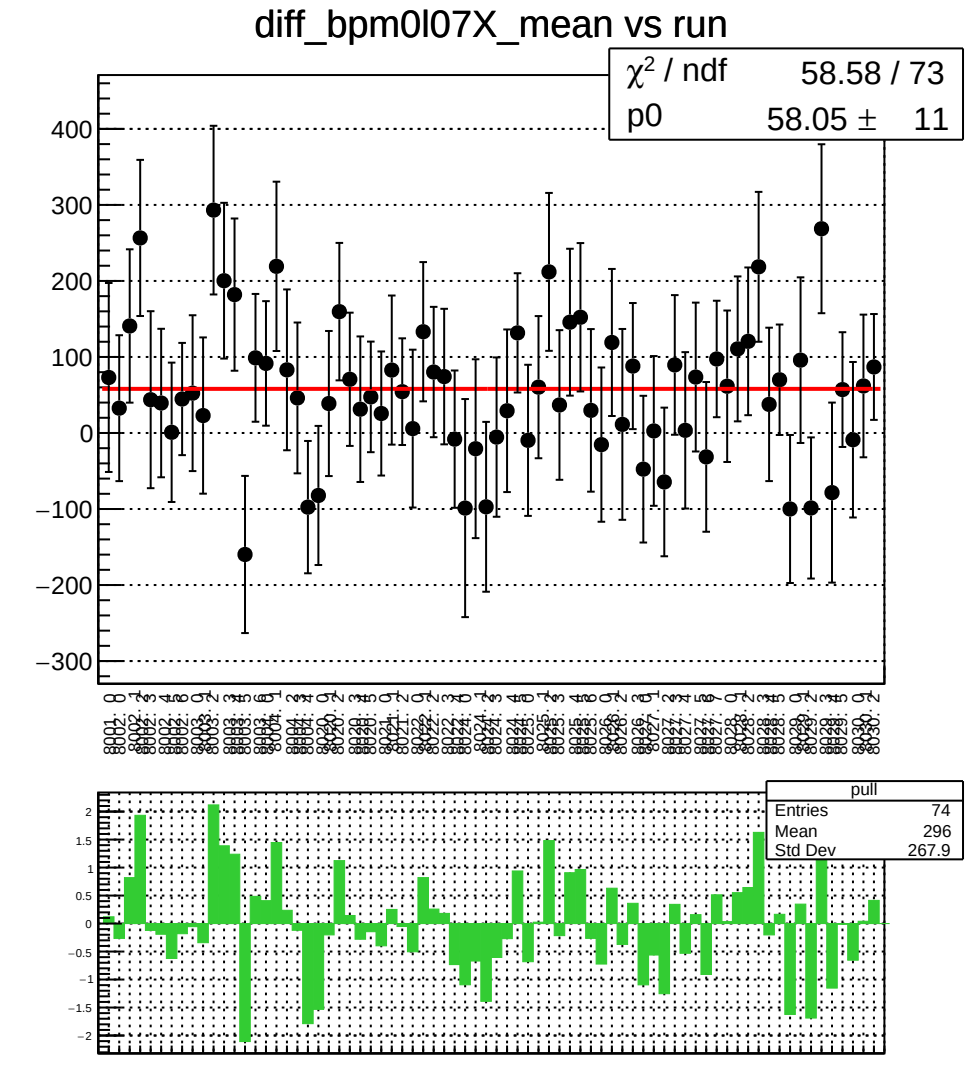

pull1D
Entries 74
Mean 0.01631
Std Dev 1.078

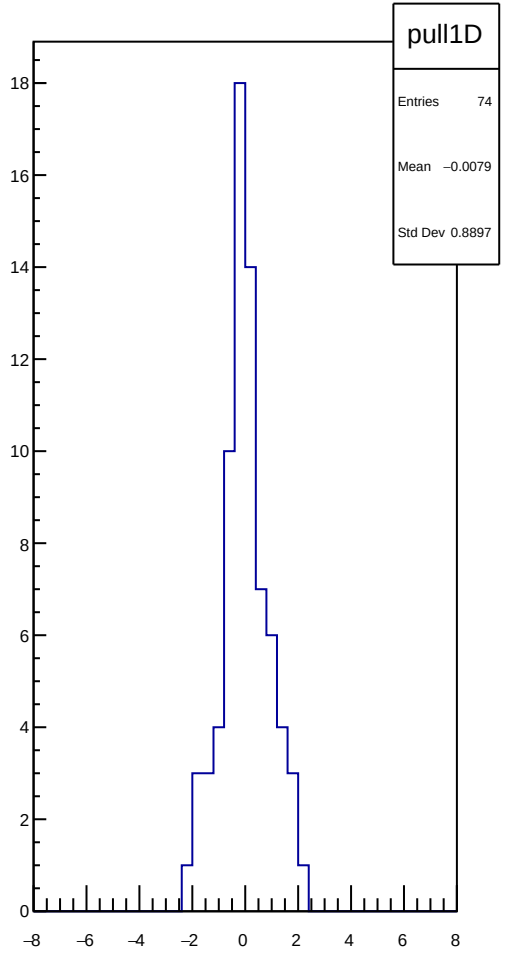

diff_bpm0l06X_rms vs run
χ² / ndf 2150 / 73
p0 1.813e+04 ± 15.09
20500
20000
19500
19000
18500
18000
17500
17000
16500

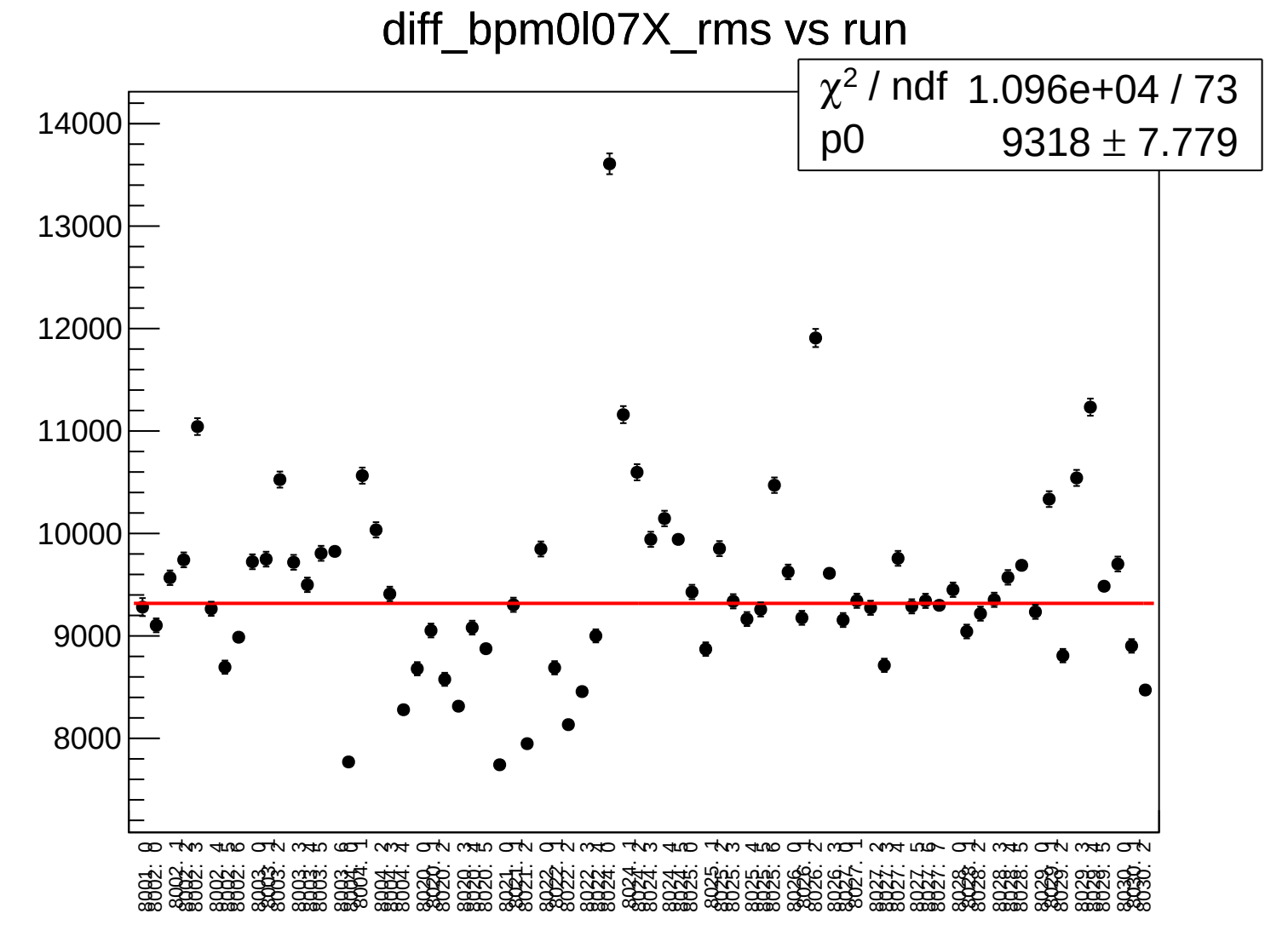

diff_bpm0l06Y_mean vs run
χ^2 / ndf 69.97 / 73
p0 29.72 ± 40.33
1000
500
0
−500
−1000
pull
Entries 74
Mean 48.88
Std Dev 55.21
2
1
0
−1
−2

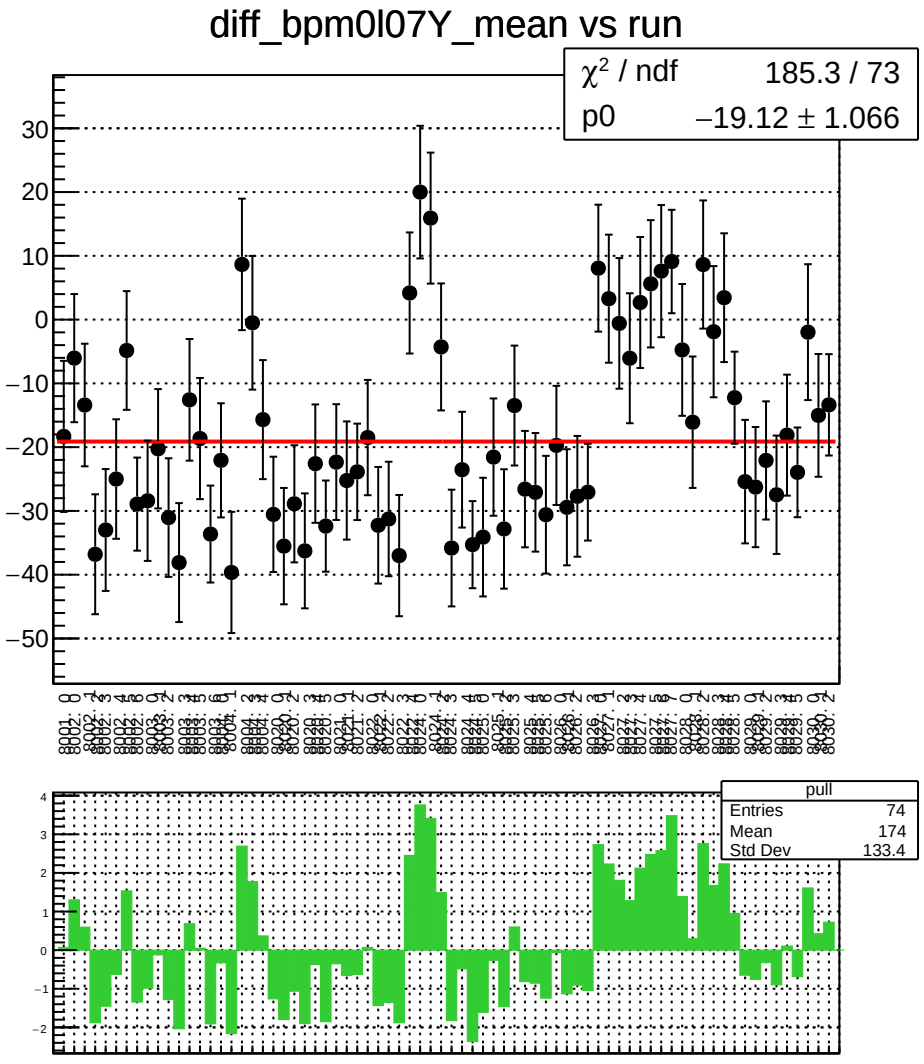

pull1D
Entries 74
Mean −0.02798
Std Dev 0.972
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

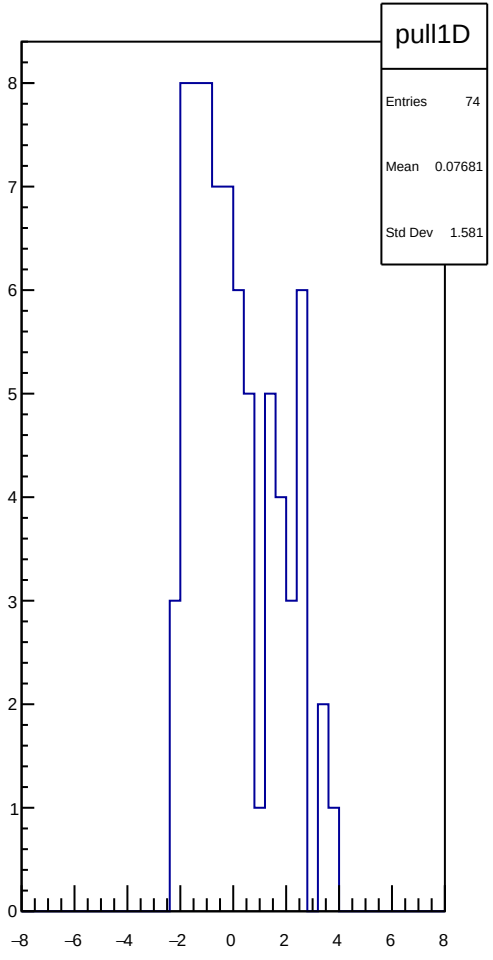

diff_bpm0l06Y_rms vs run
χ² / ndf 1.38e+04 / 73
p0 3.413e+04 ± 28.52
44000
42000
40000
38000
36000
34000
32000
30000
28000
26000

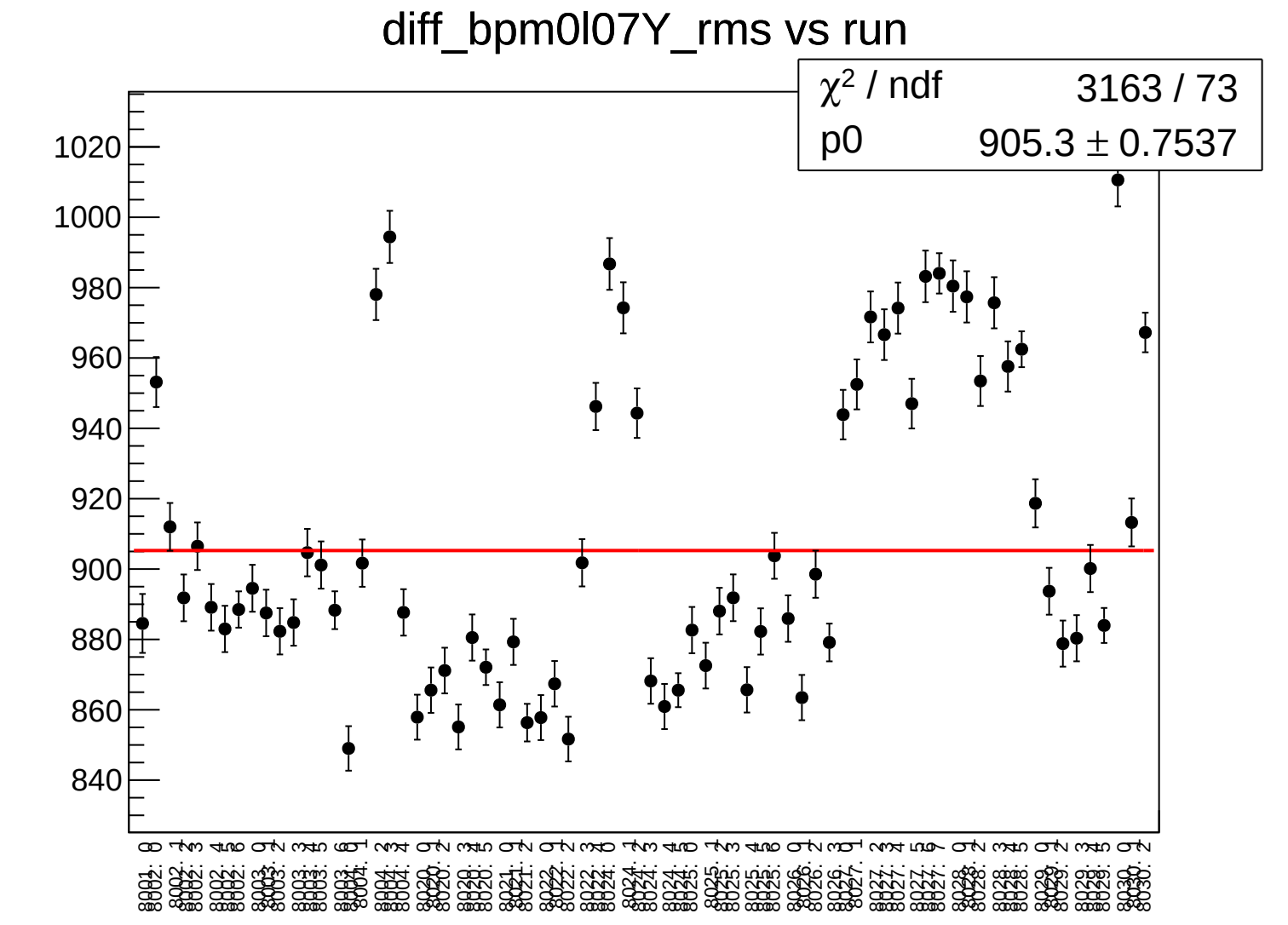

diff_bpm0l07X_mean vs run
χ² / ndf 58.58 / 73
p0 58.05 ± 11
pull
Entries 74
Mean 296
Std Dev 267.9

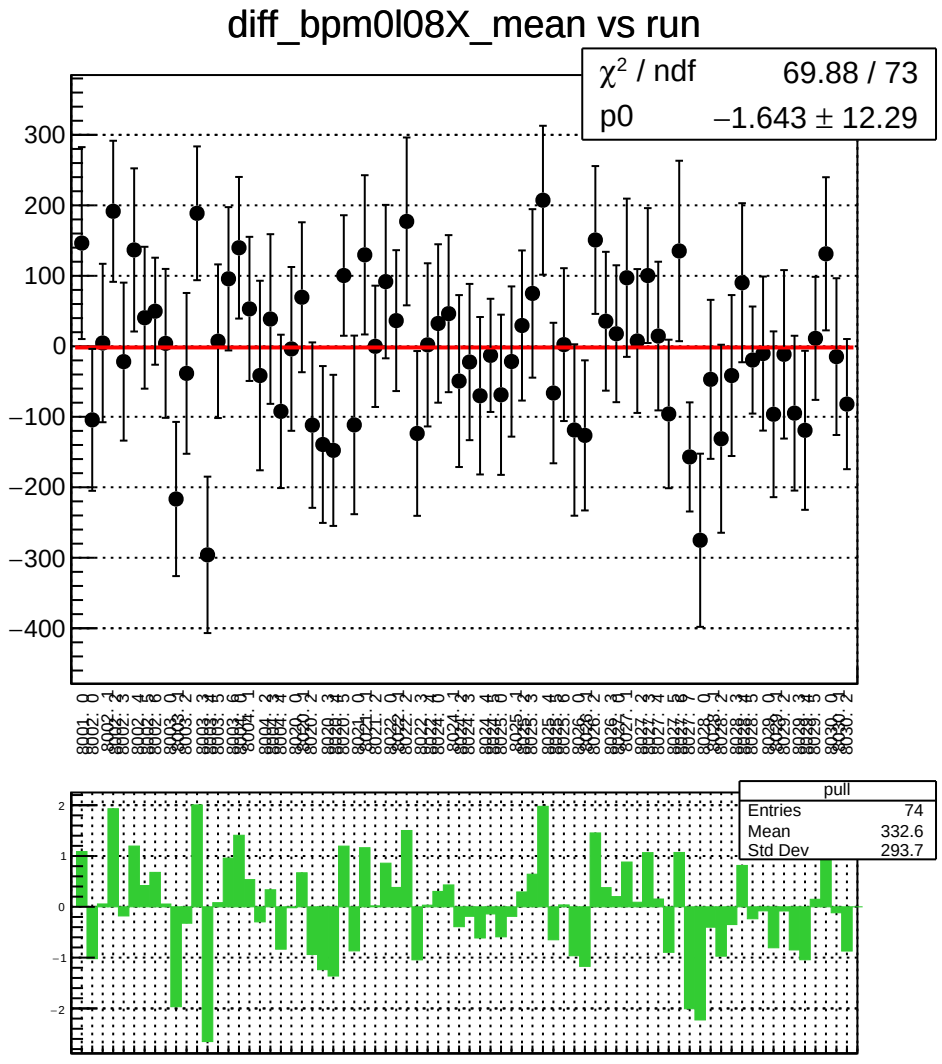

pull1D
Entries 74
Mean −0.0079
Std Dev 0.8897

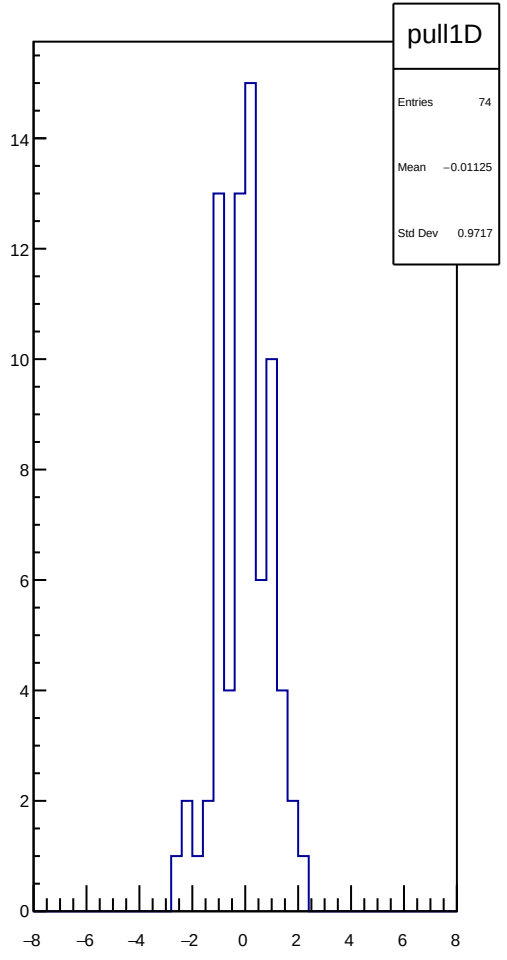

diff_bpm0l07X_rms vs run
χ² / ndf 1.096e+04 / 73
p0 9318 ± 7.779
14000
13000
12000
11000
10000
9000
8000

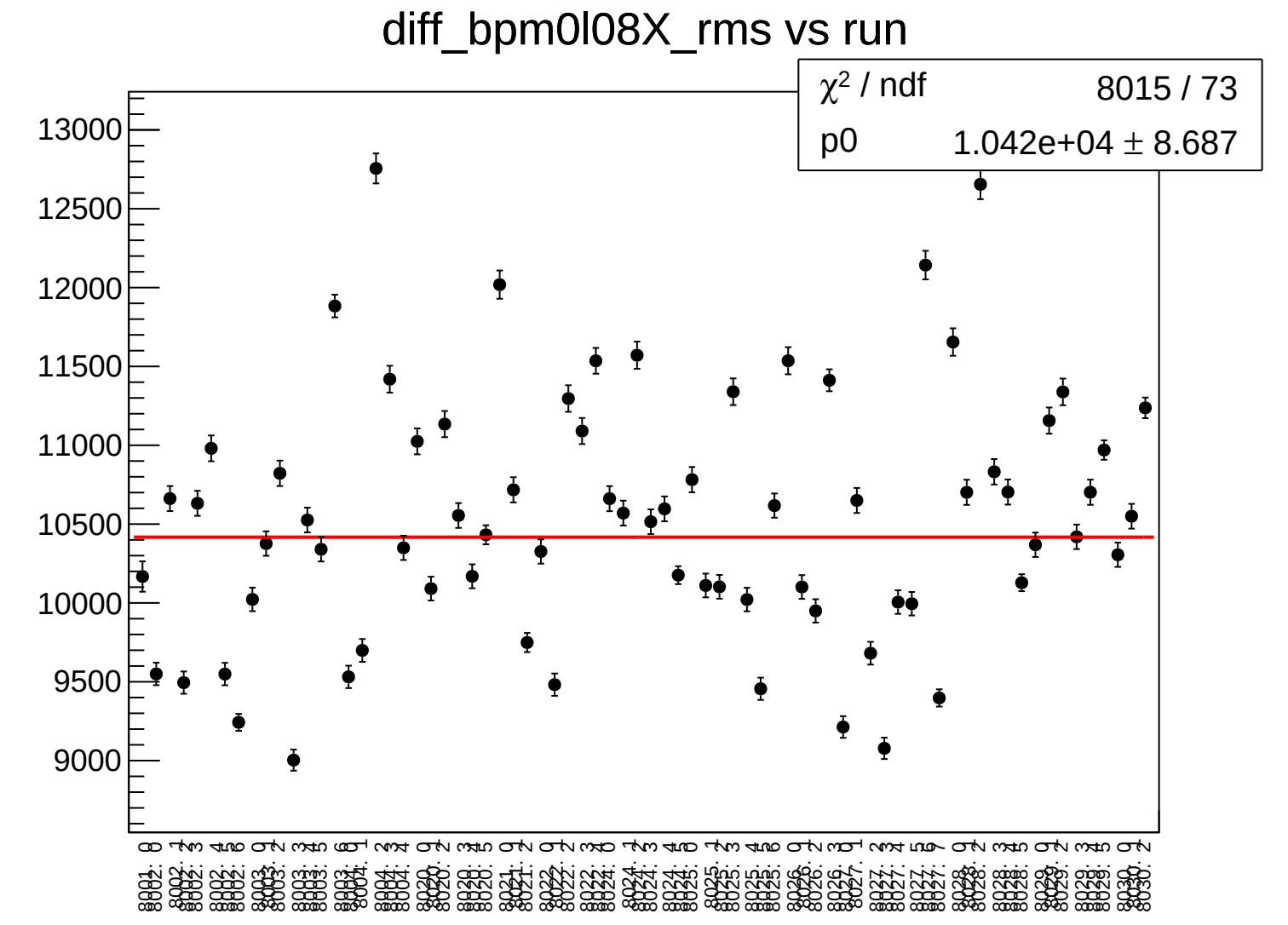

diff_bpm0l07Y_mean vs run
χ² / ndf 185.3 / 73
p0 −19.12 ± 1.066
pull
Entries 74
Mean 174
Std Dev 133.4

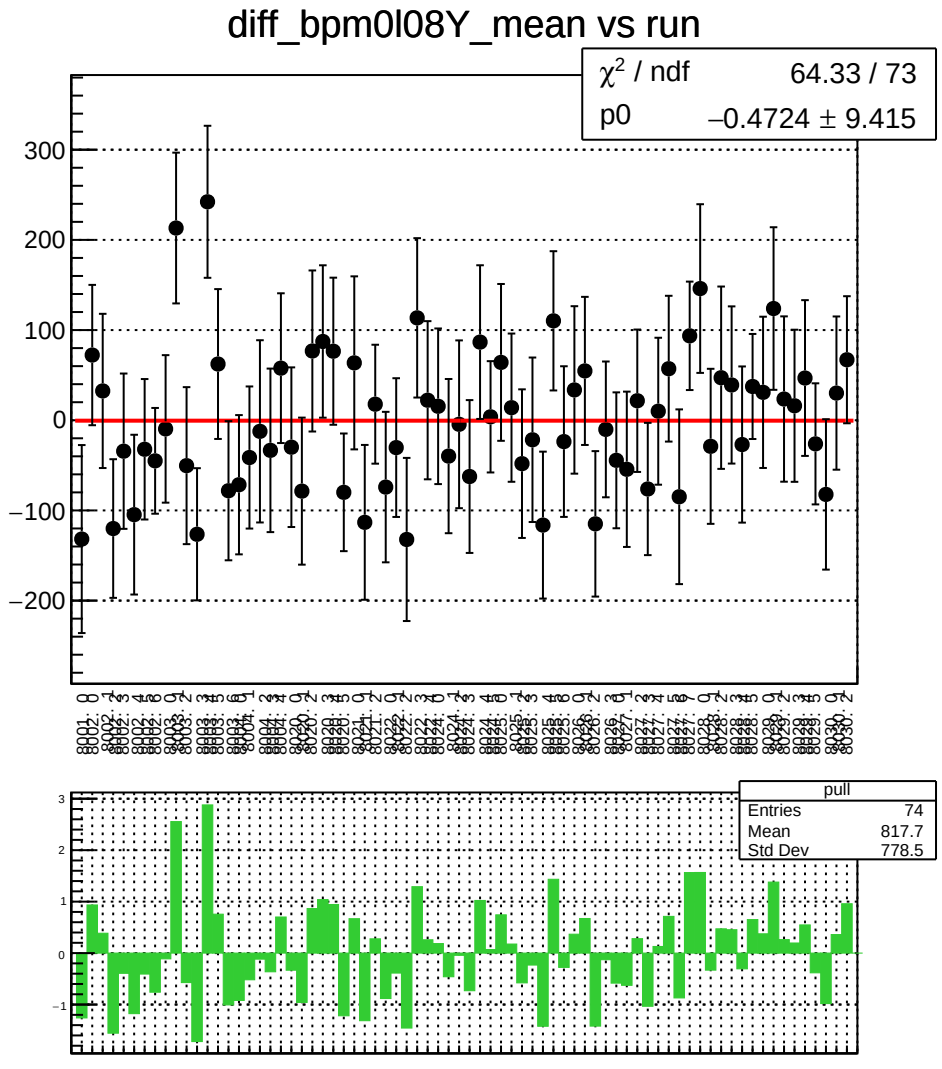

pull1D
Entries 74
Mean 0.07681
Std Dev 1.581

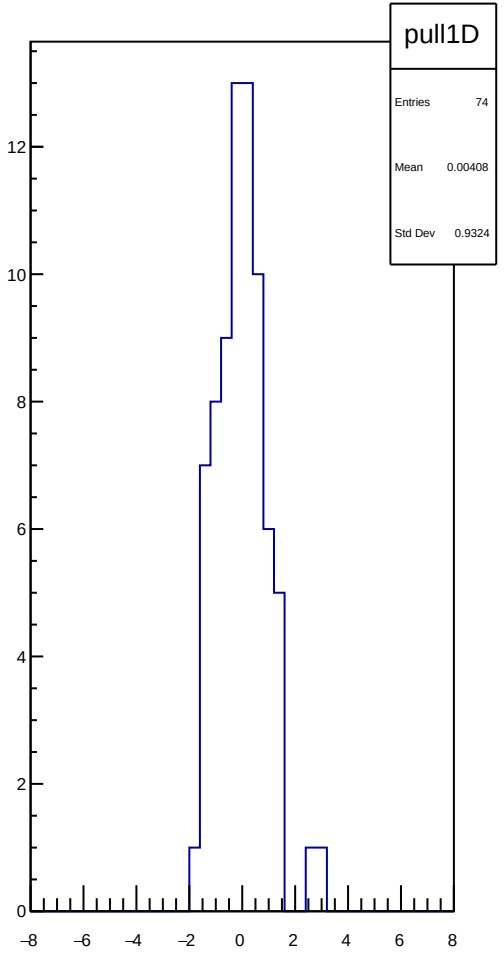

diff_bpm0l07Y_rms vs run
χ² / ndf 3163 / 73
p0 905.3 ± 0.7537
1020
1000
980
960
940
920
900
880
860
840

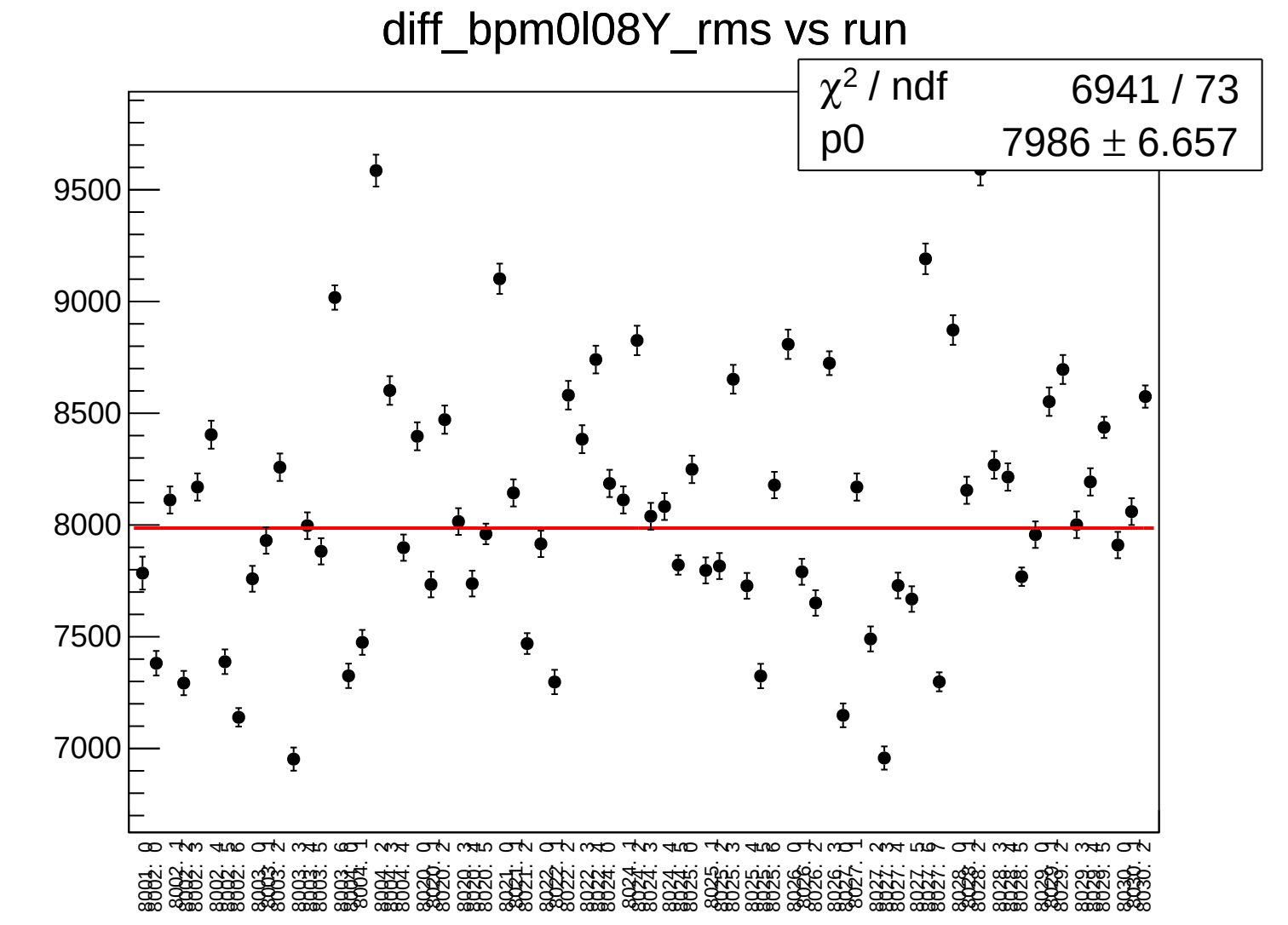

diff_bpm0l08X_mean vs run
χ² / ndf 69.88 / 73
p0 −1.643 ± 12.29
pull
Entries 74
Mean 332.6
Std Dev 293.7

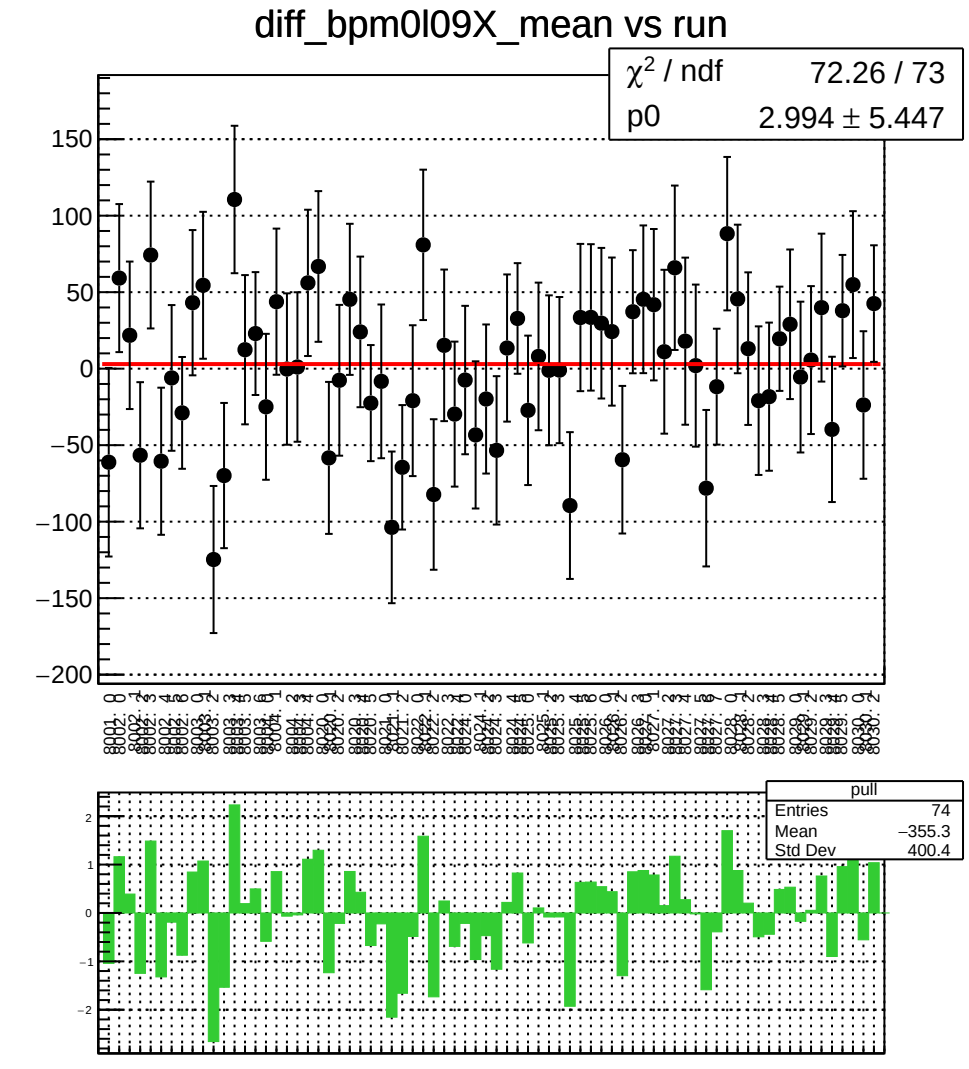

pull1D
Entries 74
Mean −0.01125
Std Dev 0.9717

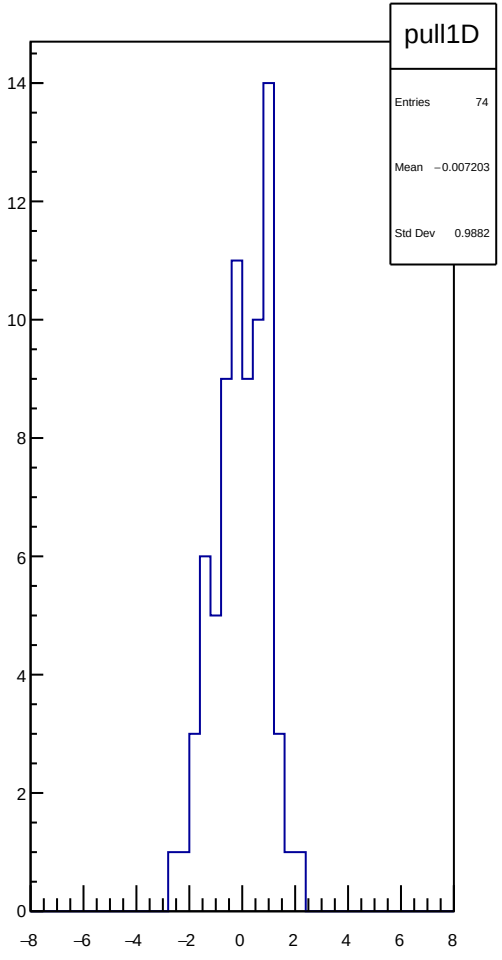

diff_bpm0l08X_rms vs run
χ² / ndf 8015 / 73
p0 1.042e+04 ± 8.687
13000
12500
12000
11500
11000
10500
10000
9500
9000

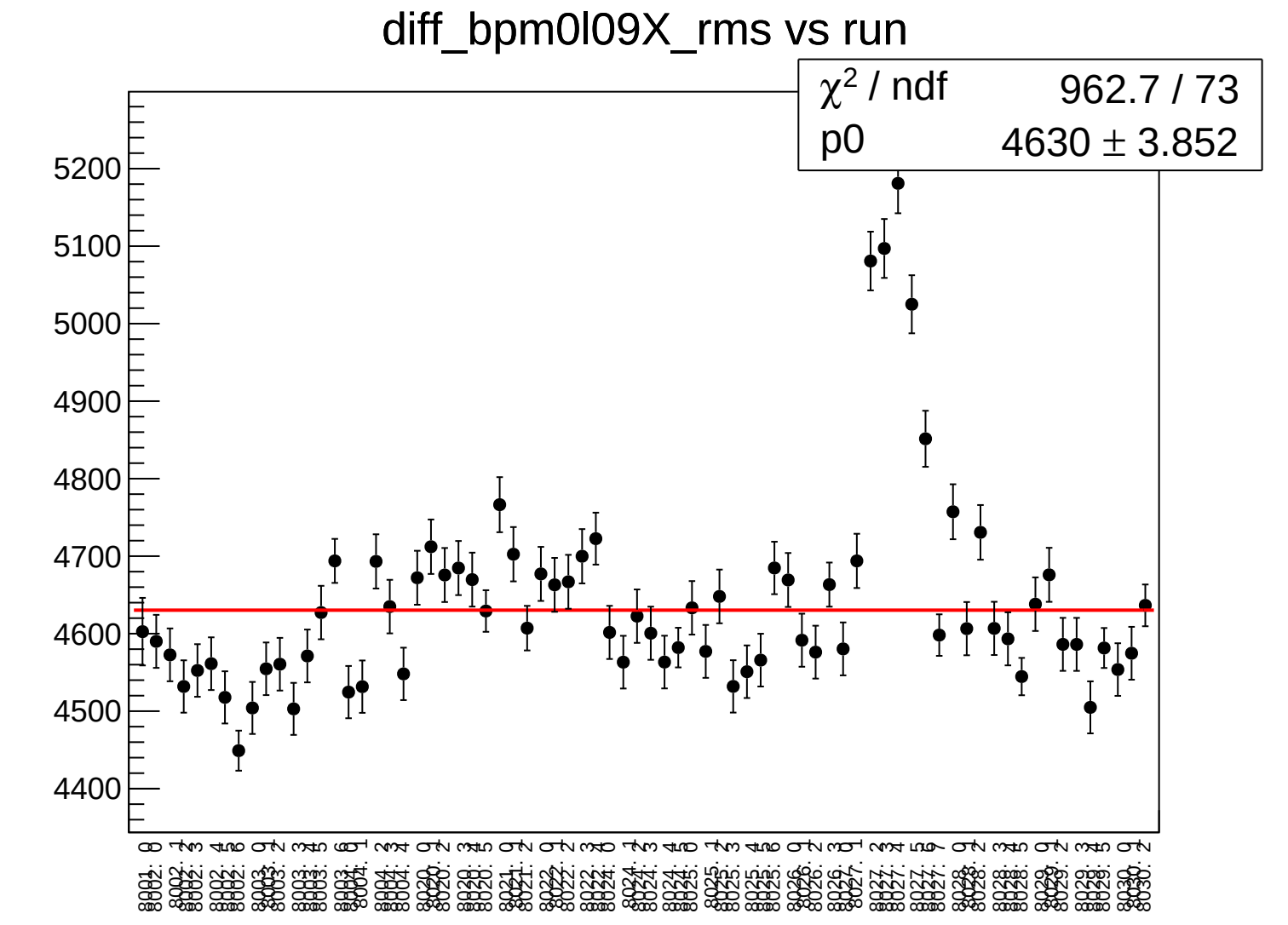

diff_bpm0l08Y_mean vs run
χ² / ndf 64.33 / 73
p0 −0.4724 ± 9.415
pull
Entries 74
Mean 817.7
Std Dev 778.5

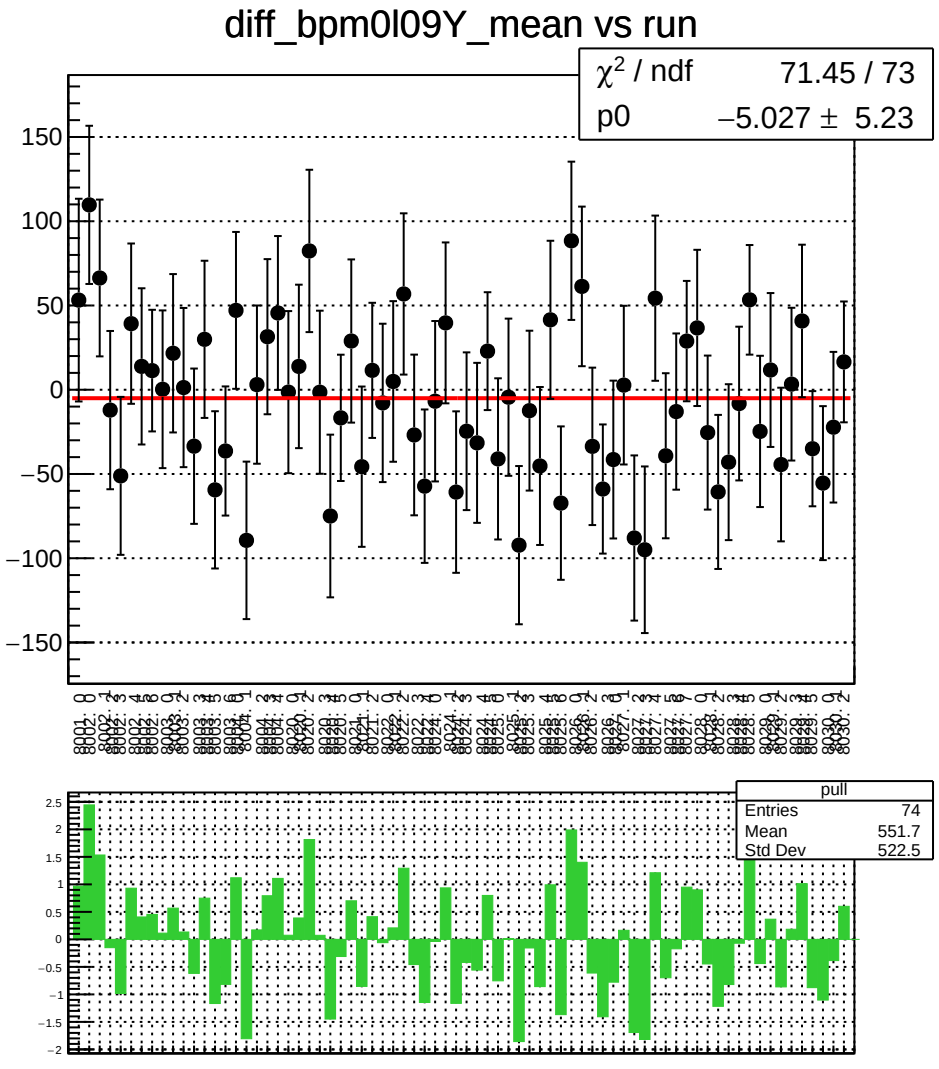

pull1D
Entries 74
Mean 0.00408
Std Dev 0.9324

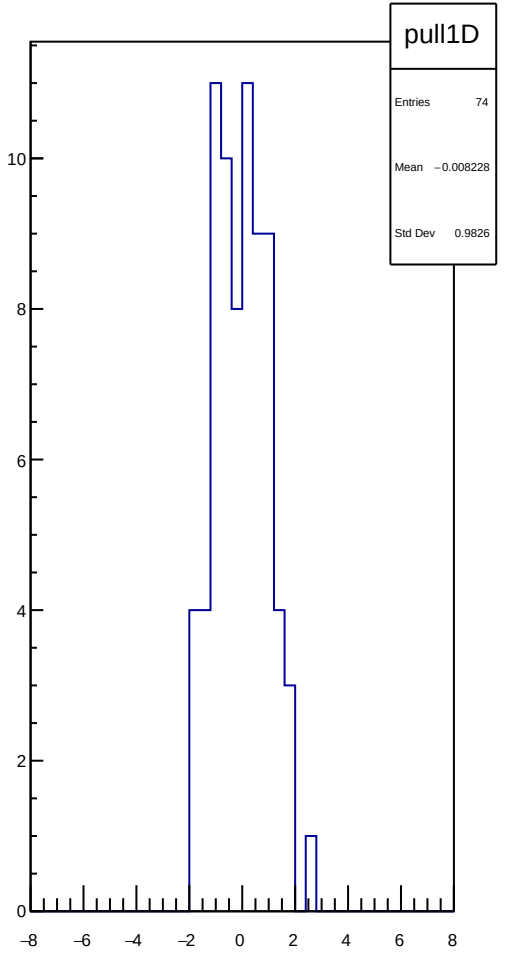

diff_bpm0l08Y_rms vs run
χ² / ndf 6941 / 73
p0 7986 ± 6.657
9500
9000
8500
8000
7500
7000

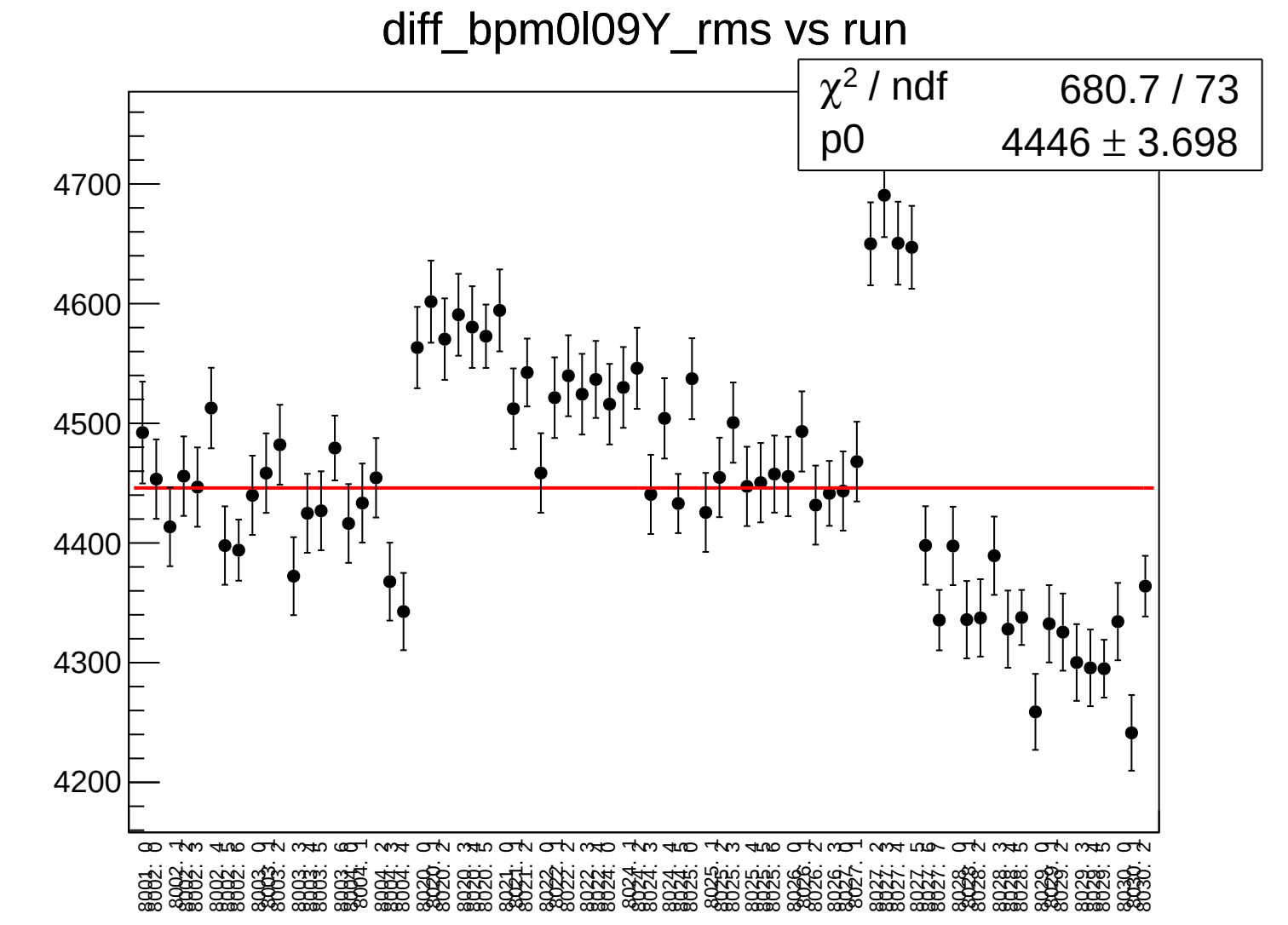

diff_bpm0l09X_mean vs run
χ² / ndf 72.26 / 73
p0 2.994 ± 5.447
pull
Entries 74
Mean −355.3
Std Dev 400.4

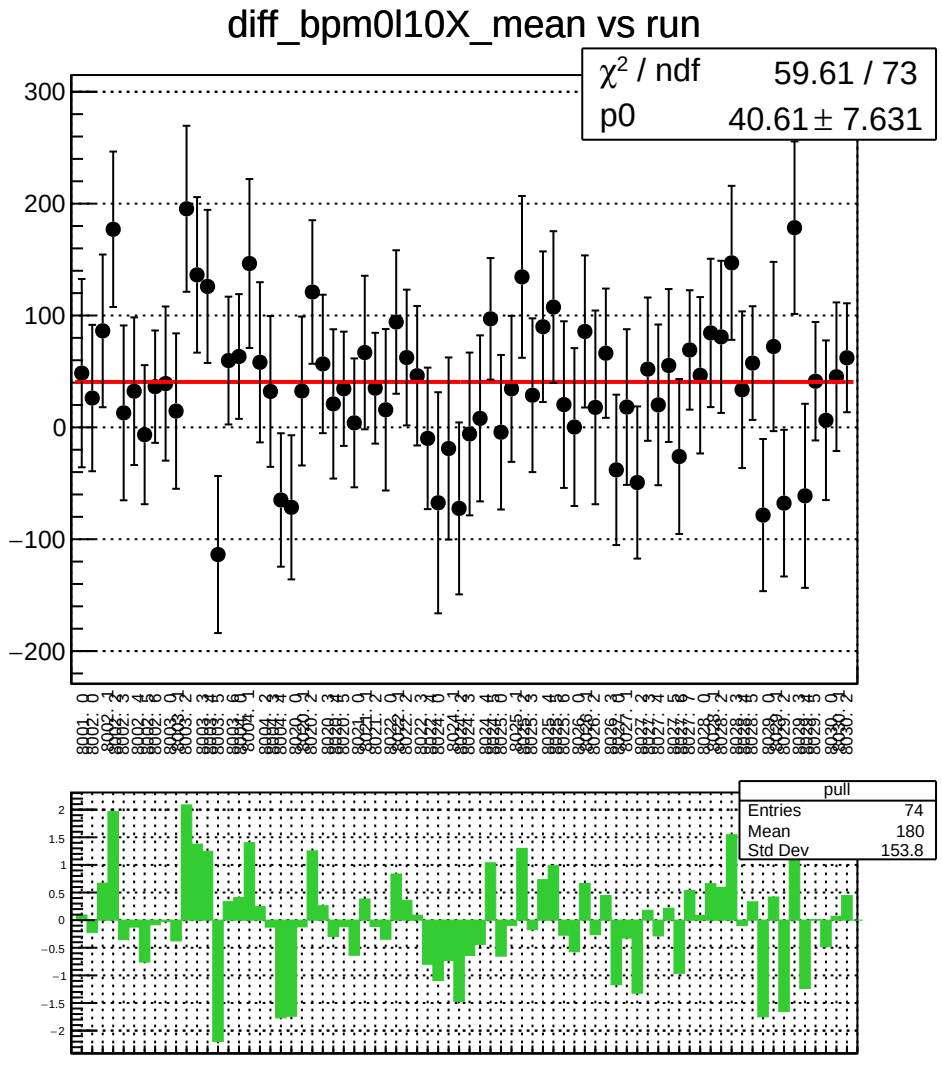

pull1D
Entries 74
Mean −0.007203
Std Dev 0.9882

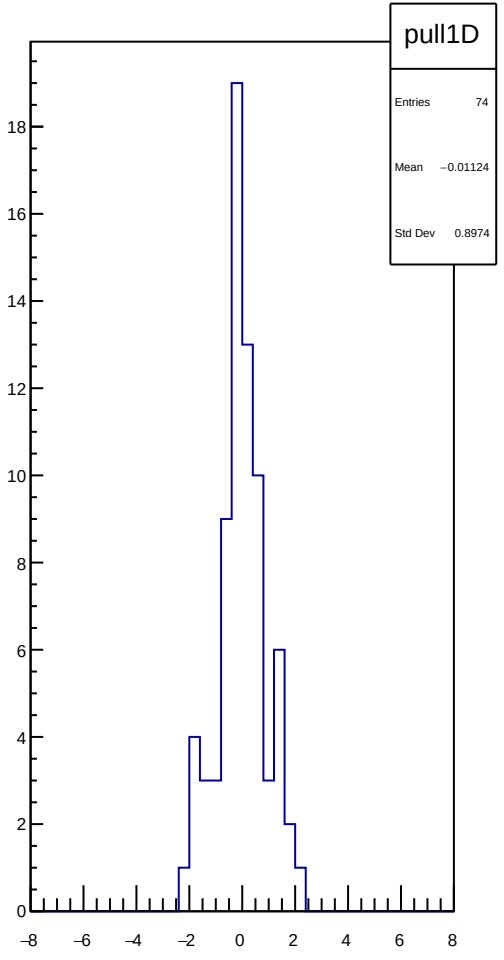

diff_bpm0l09X_rms vs run
χ² / ndf 962.7 / 73
p0 4630 ± 3.852
5200
5100
5000
4900
4800
4700
4600
4500
4400

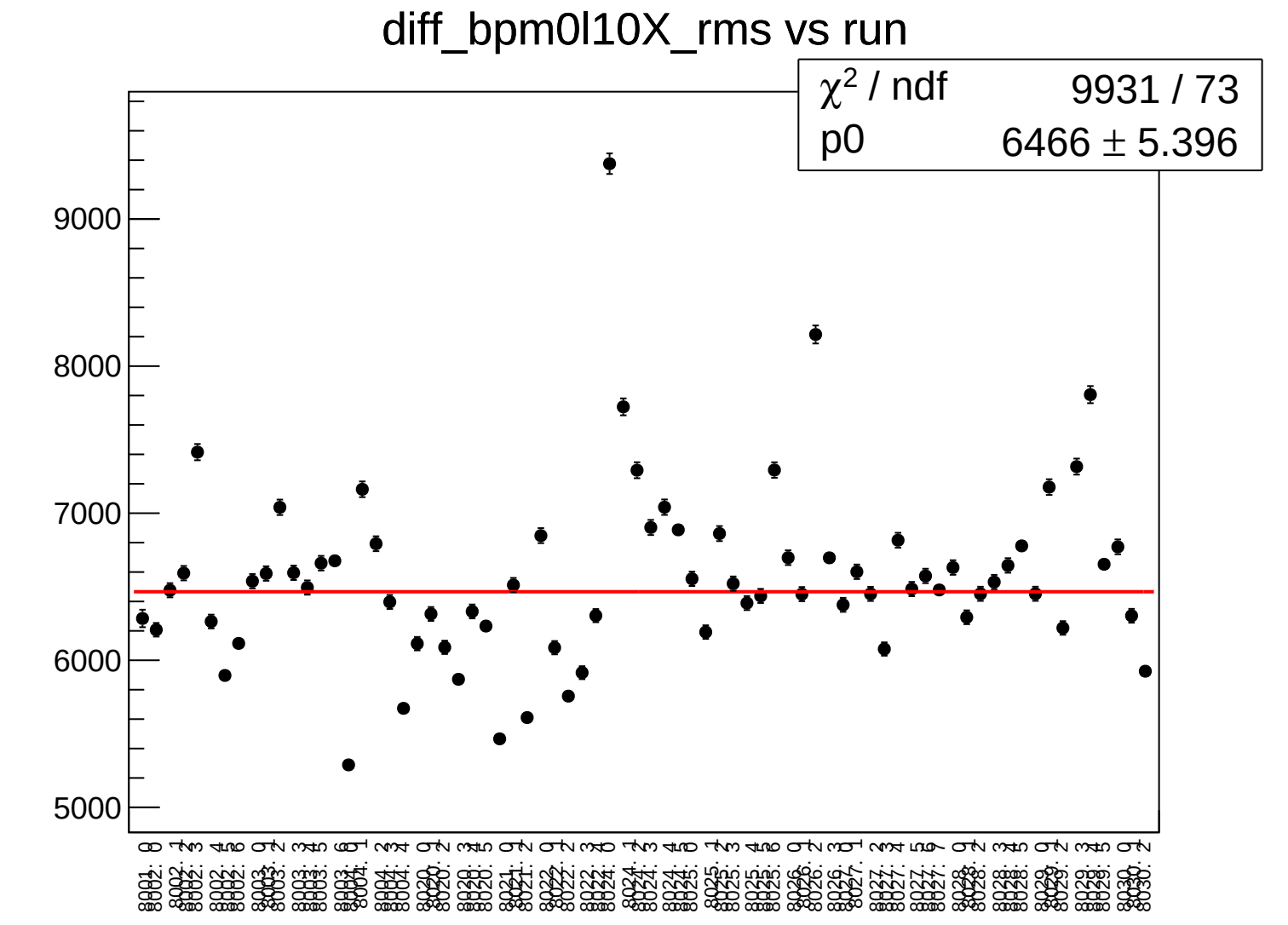

diff_bpm0l09Y_mean vs run
χ² / ndf 71.45 / 73
p0 −5.027 ± 5.23
pull
Entries 74
Mean 551.7
Std Dev 522.5

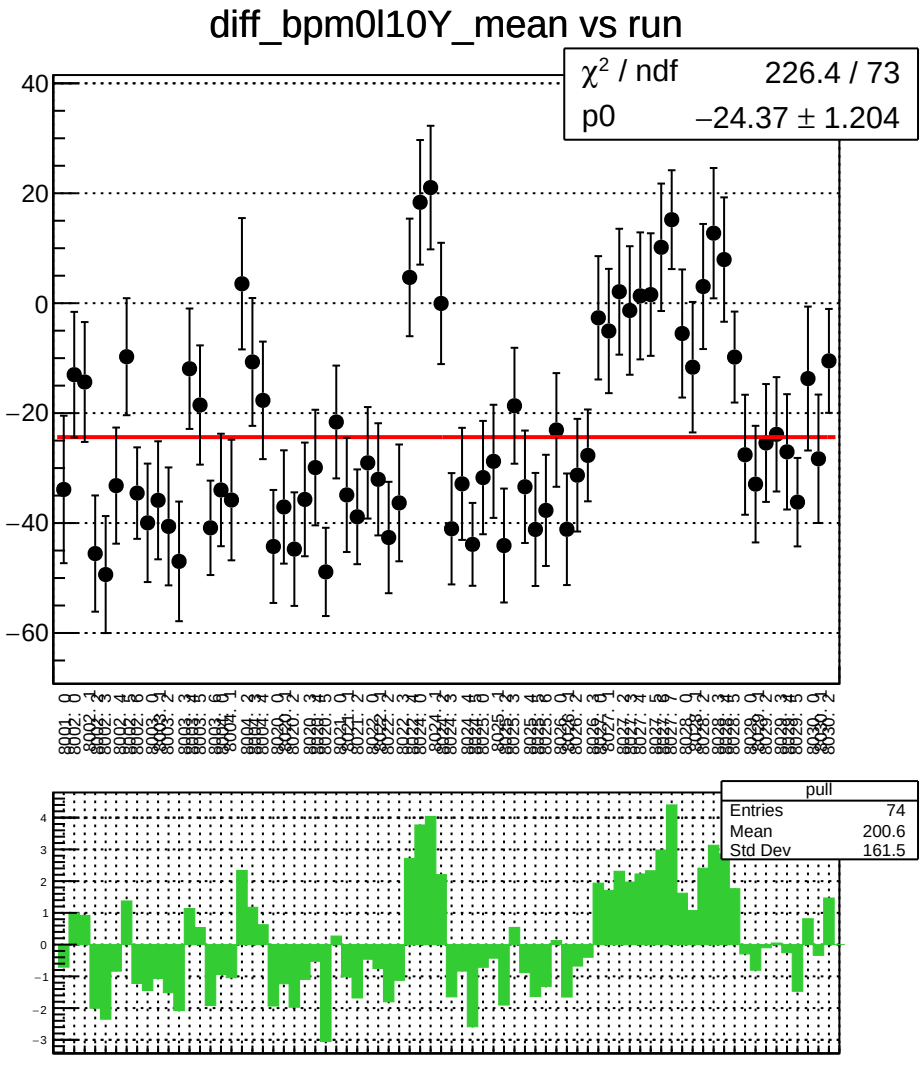

pull1D
Entries 74
Mean −0.008228
Std Dev 0.9826

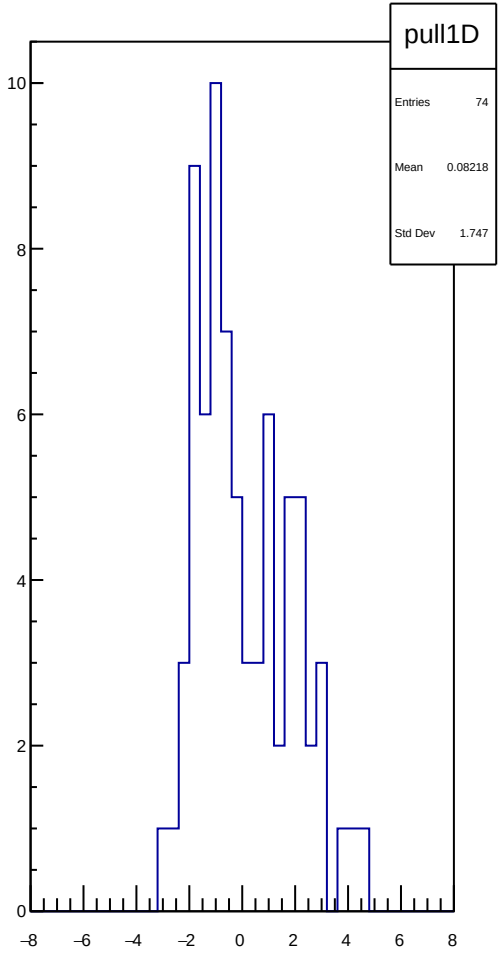

diff_bpm0l09Y_rms vs run
χ² / ndf 680.7 / 73
p0 4446 ± 3.698
4700
4600
4500
4400
4300
4200

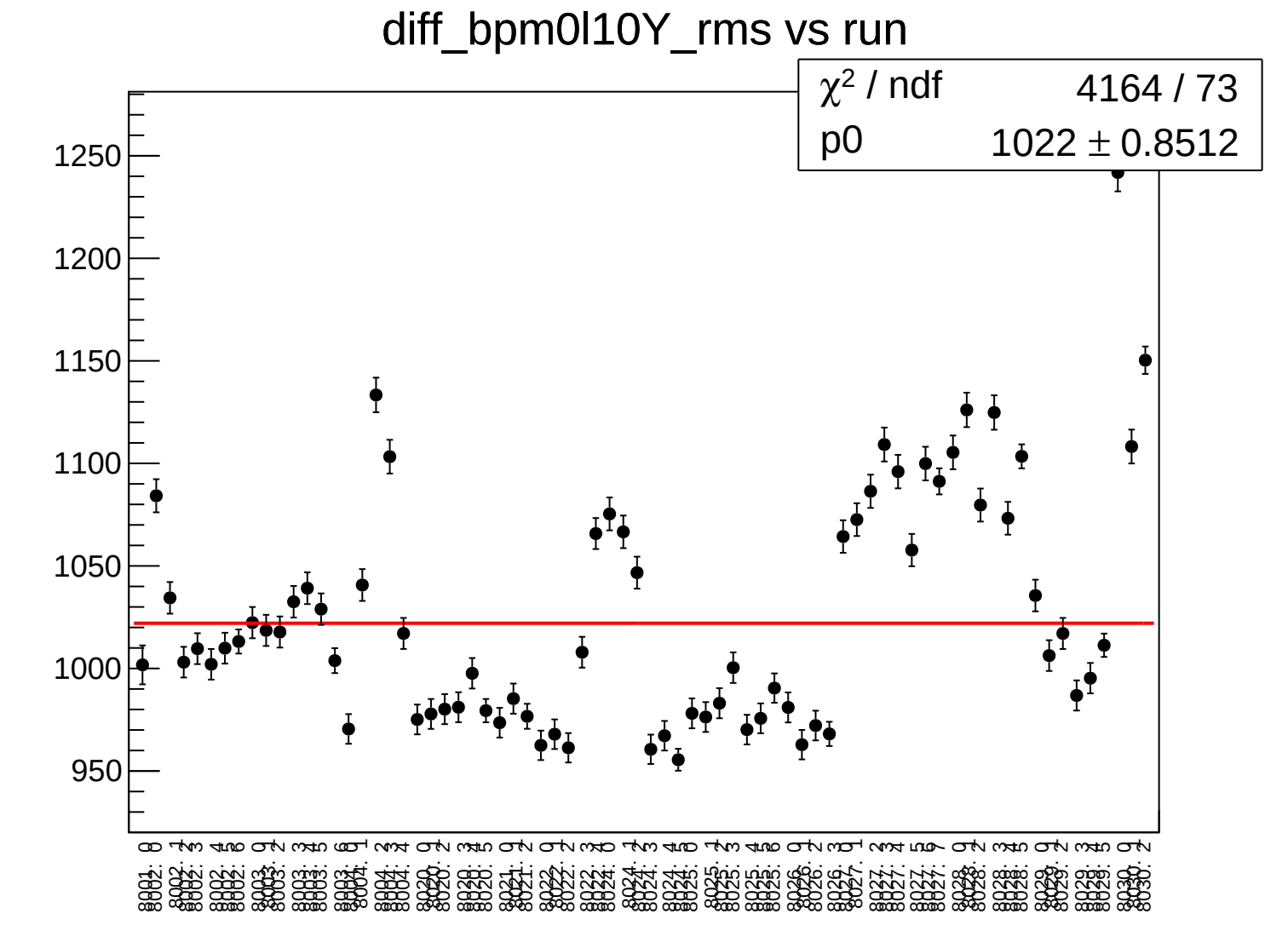

diff_bpm0l10X_mean vs run
χ² / ndf 59.61 / 73
p0 40.61 ± 7.631
pull
Entries 74
Mean 180
Std Dev 153.8

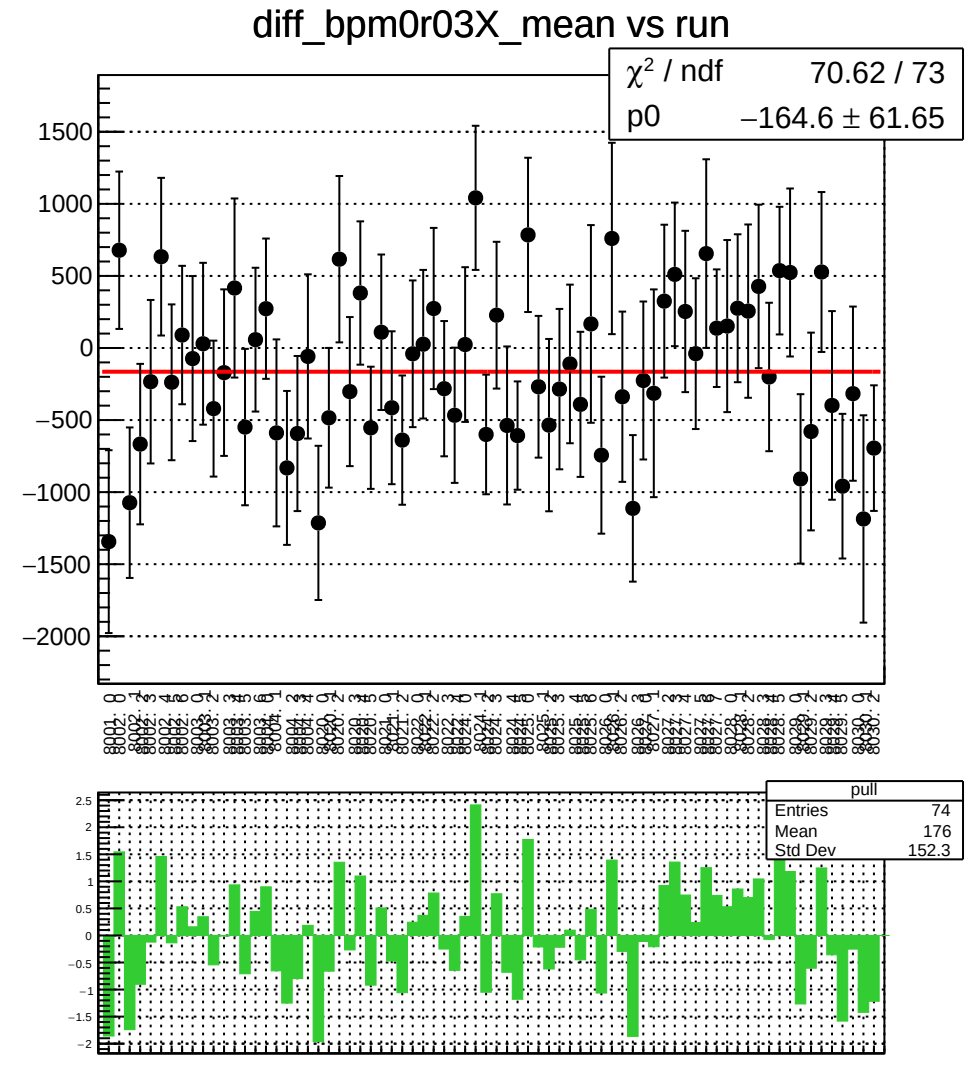

pull1D
Entries 74
Mean −0.01124
Std Dev 0.8974

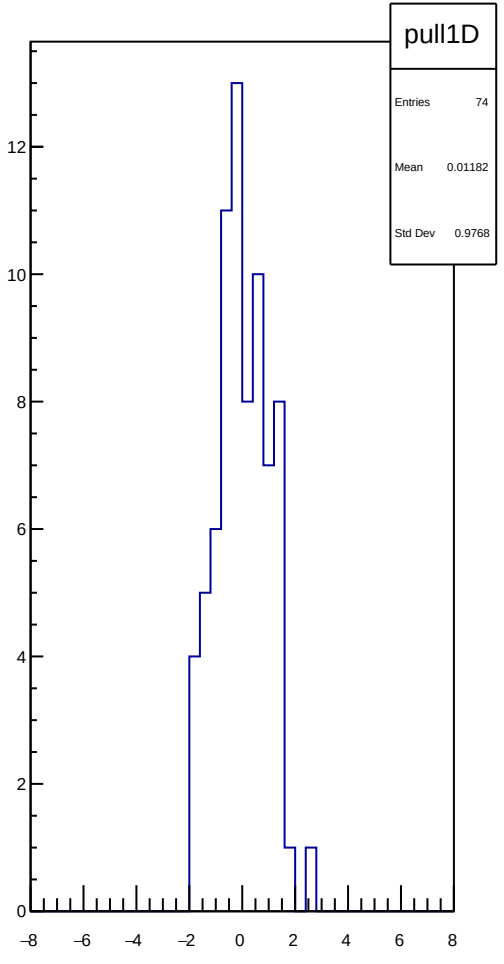

diff_bpm0l10X_rms vs run
χ² / ndf 9931 / 73
p0 6466 ± 5.396
9000
8000
7000
6000
5000

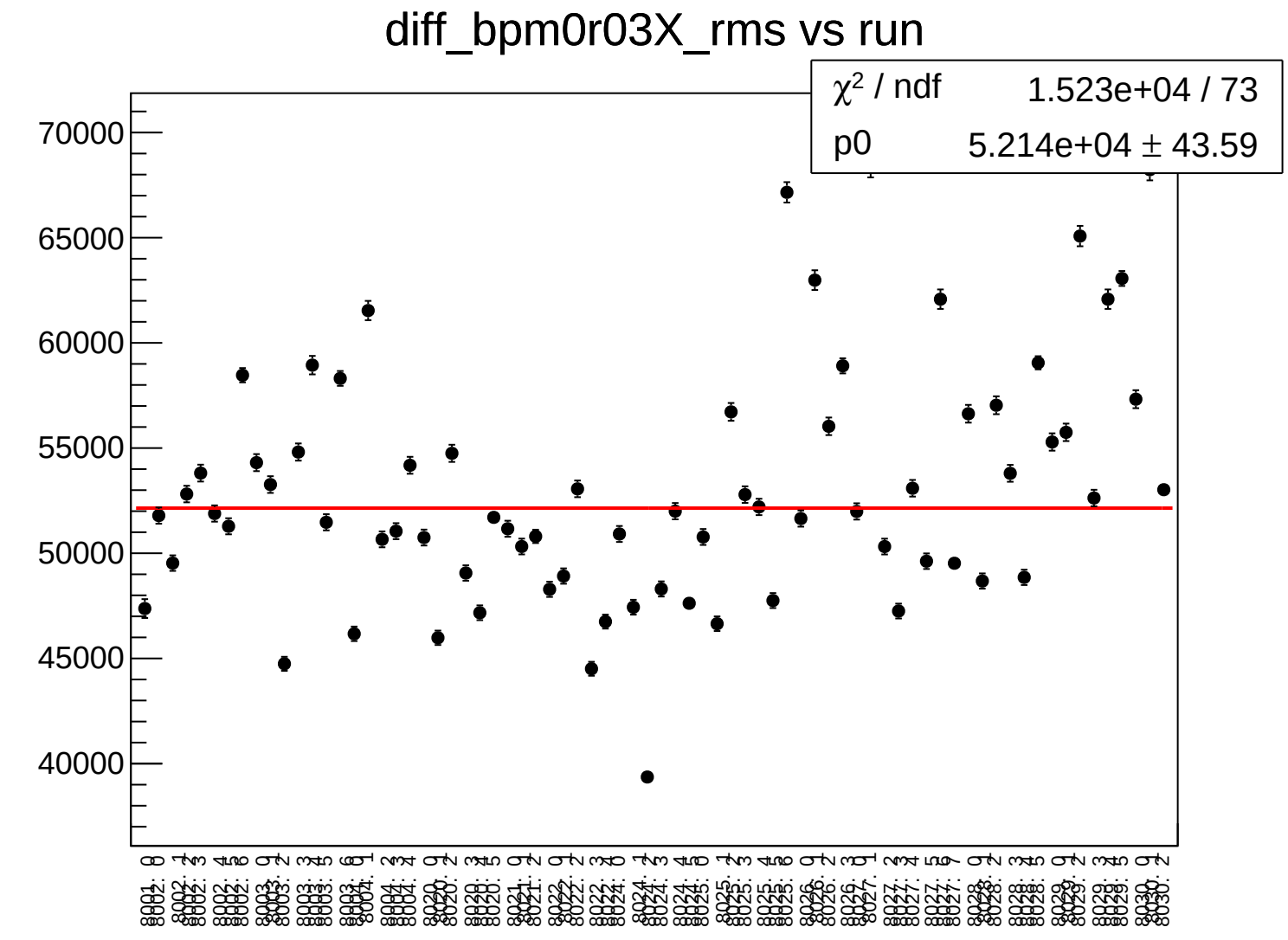

diff_bpm0l10Y_mean vs run
χ² / ndf 226.4 / 73
p0 −24.37 ± 1.204
pull
Entries 74
Mean 200.6
Std Dev 161.5

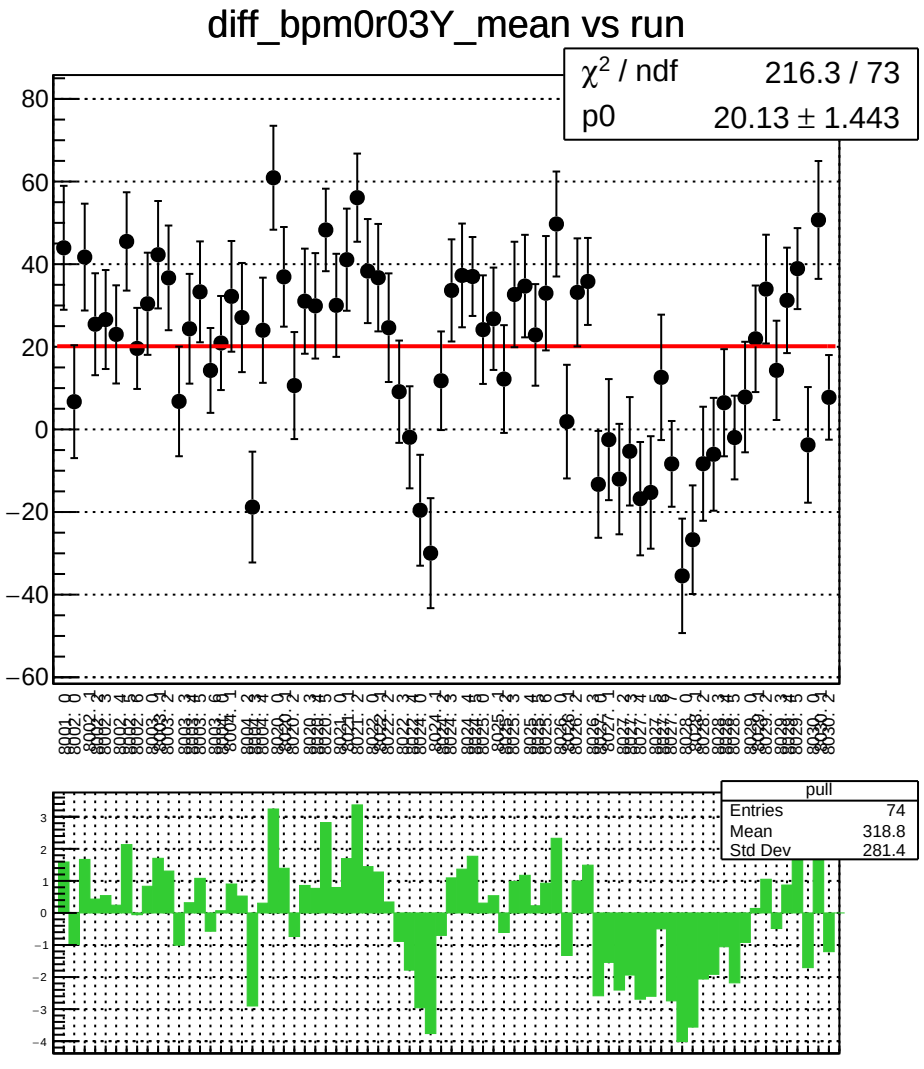

pull1D
Entries 74
Mean 0.08218
Std Dev 1.747

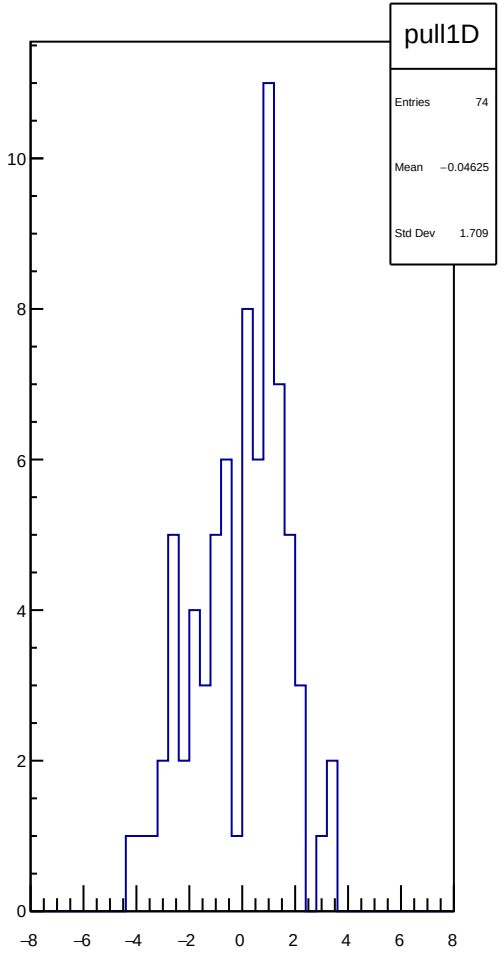

diff_bpm0l10Y_rms vs run
χ² / ndf 4164 / 73
p0 1022 ± 0.8512
1250
1200
1150
1100
1050
1000
950

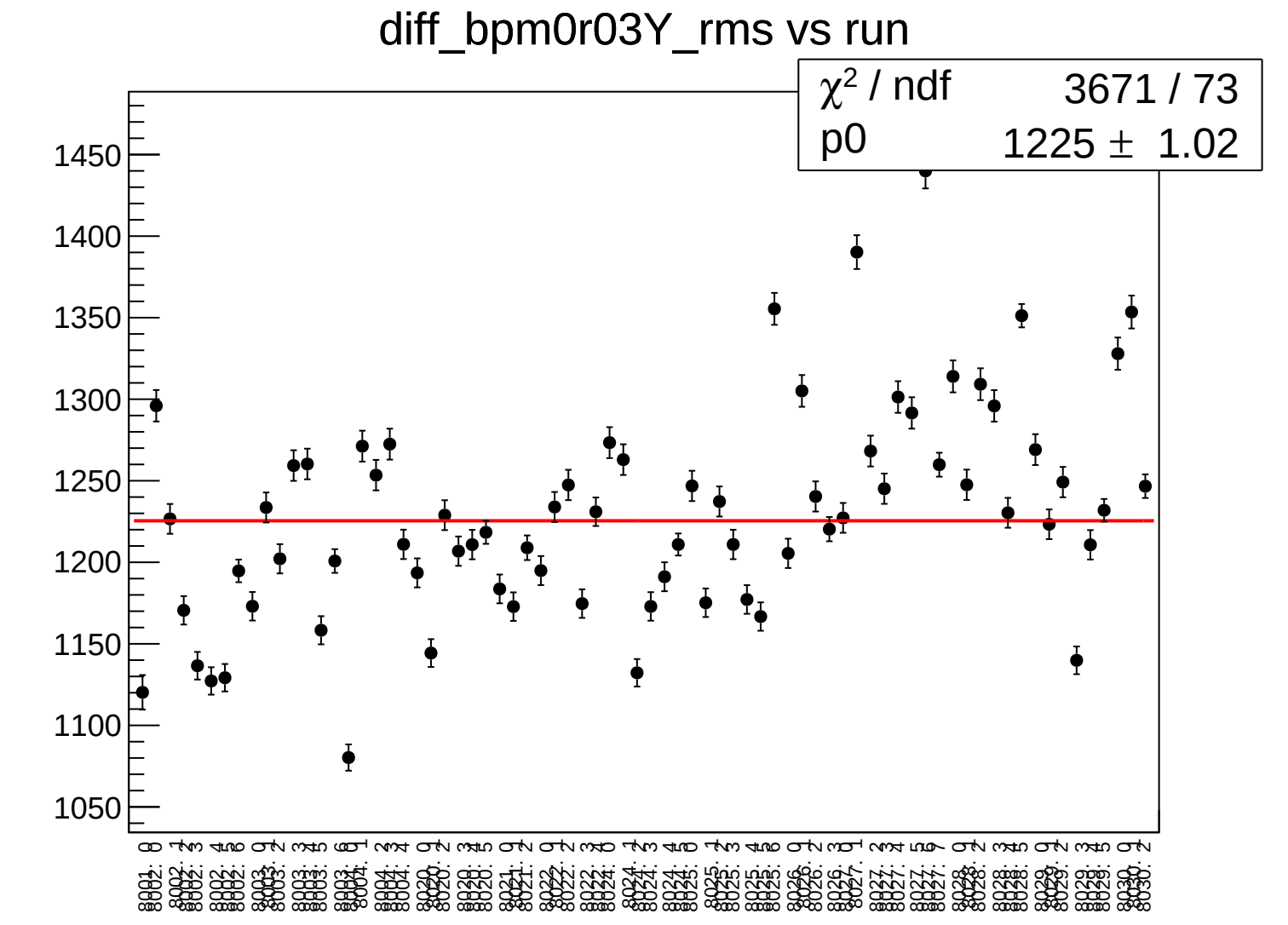

diff_bpm0r03X_mean vs run
χ² / ndf 70.62 / 73
p0 −164.6 ± 61.65
pull
Entries 74
Mean 176
Std Dev 152.3

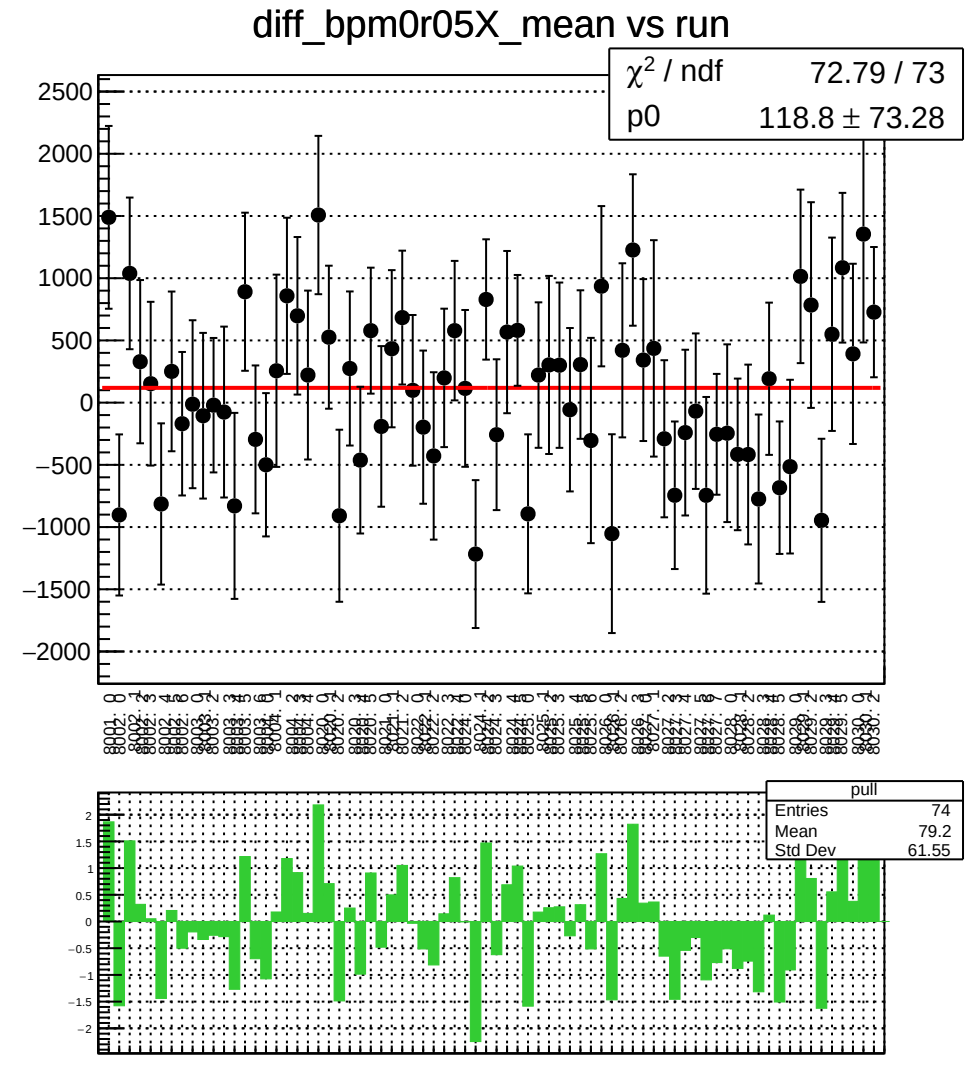

pull1D
Entries 74
Mean 0.01182
Std Dev 0.9768

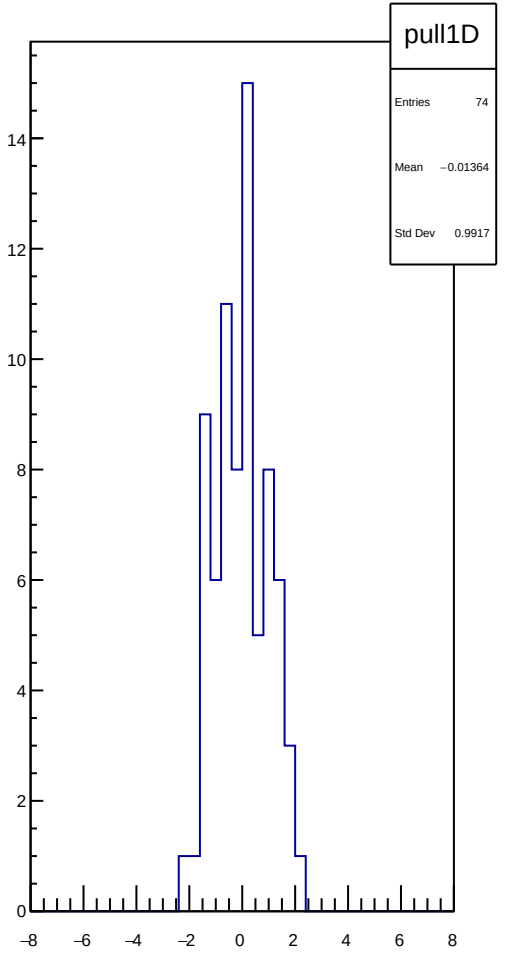

diff_bpm0r03X_rms vs run
χ² / ndf 1.523e+04 / 73
p0 5.214e+04 ± 43.59
70000
65000
60000
55000
50000
45000
40000

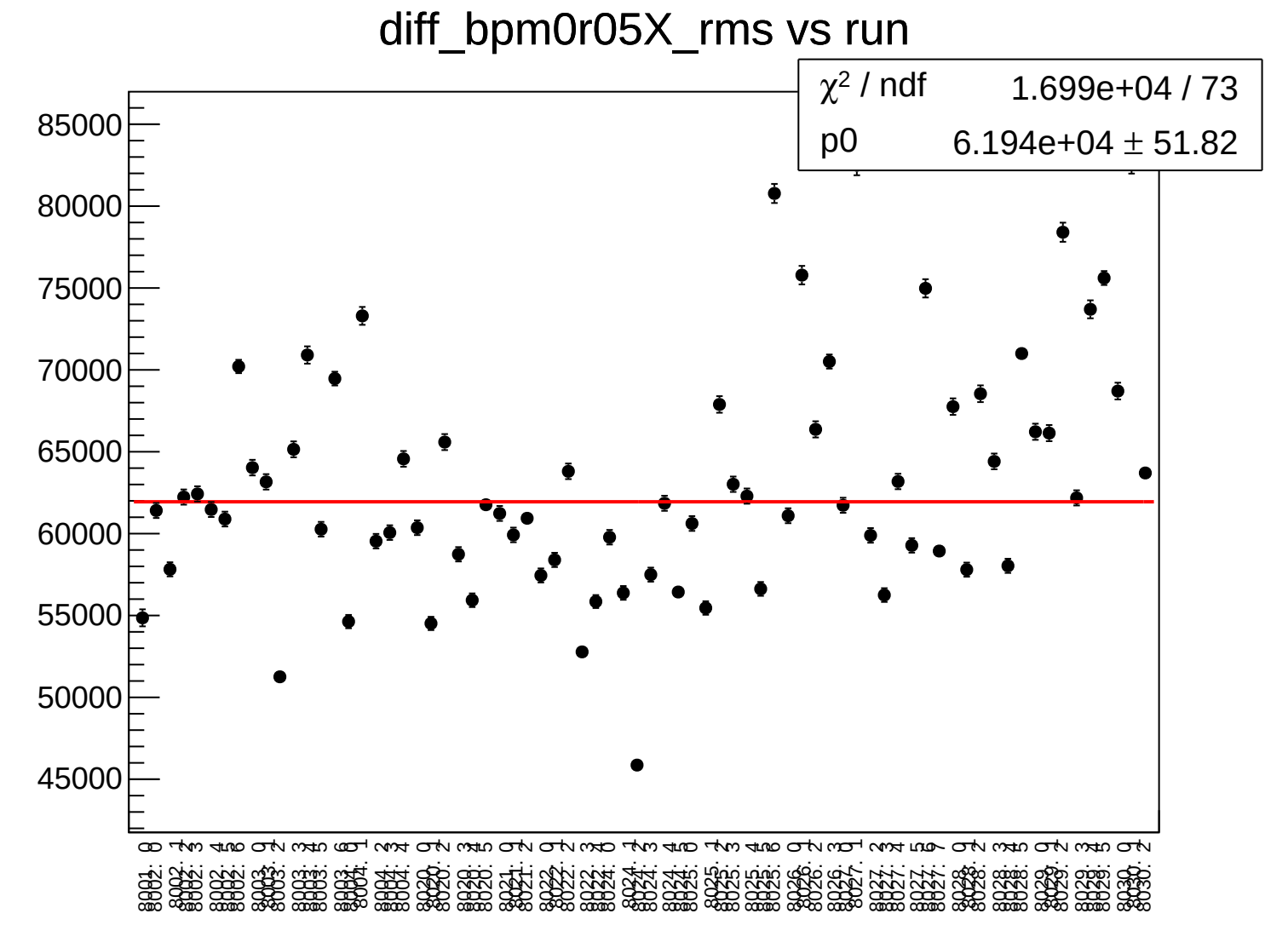

diff_bpm0r03Y_mean vs run
χ² / ndf 216.3 / 73
p0 20.13 ± 1.443
pull
Entries 74
Mean 318.8
Std Dev 281.4

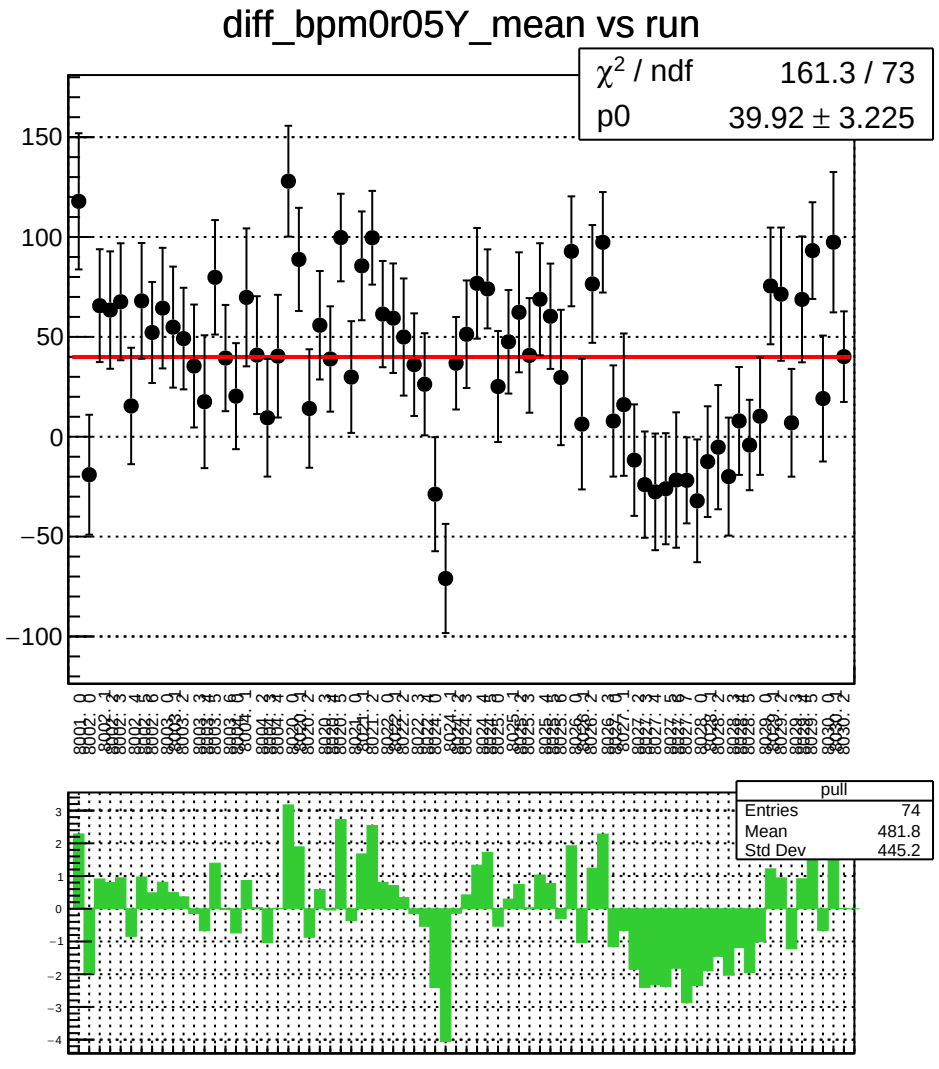

pull1D
Entries 74
Mean −0.04625
Std Dev 1.709

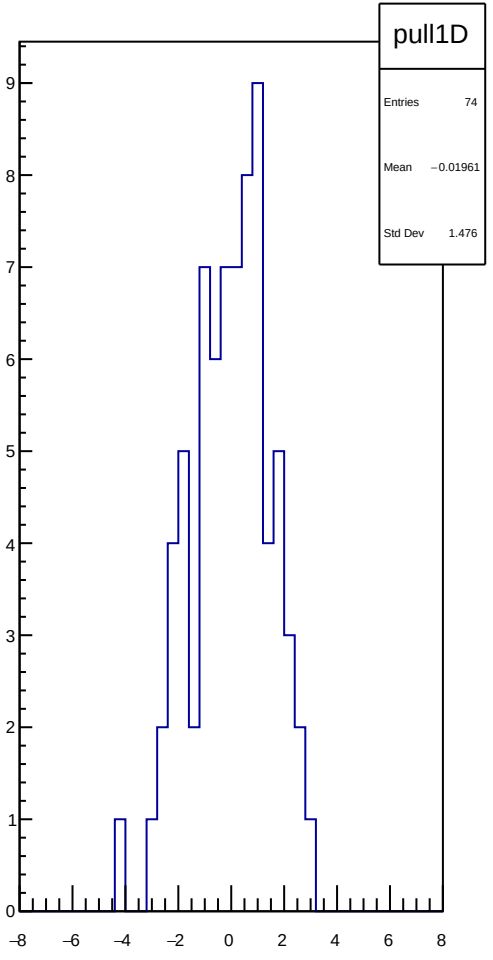

diff_bpm0r03Y_rms vs run
χ² / ndf 3671 / 73
p0 1225 ± 1.02
1450
1400
1350
1300
1250
1200
1150
1100
1050

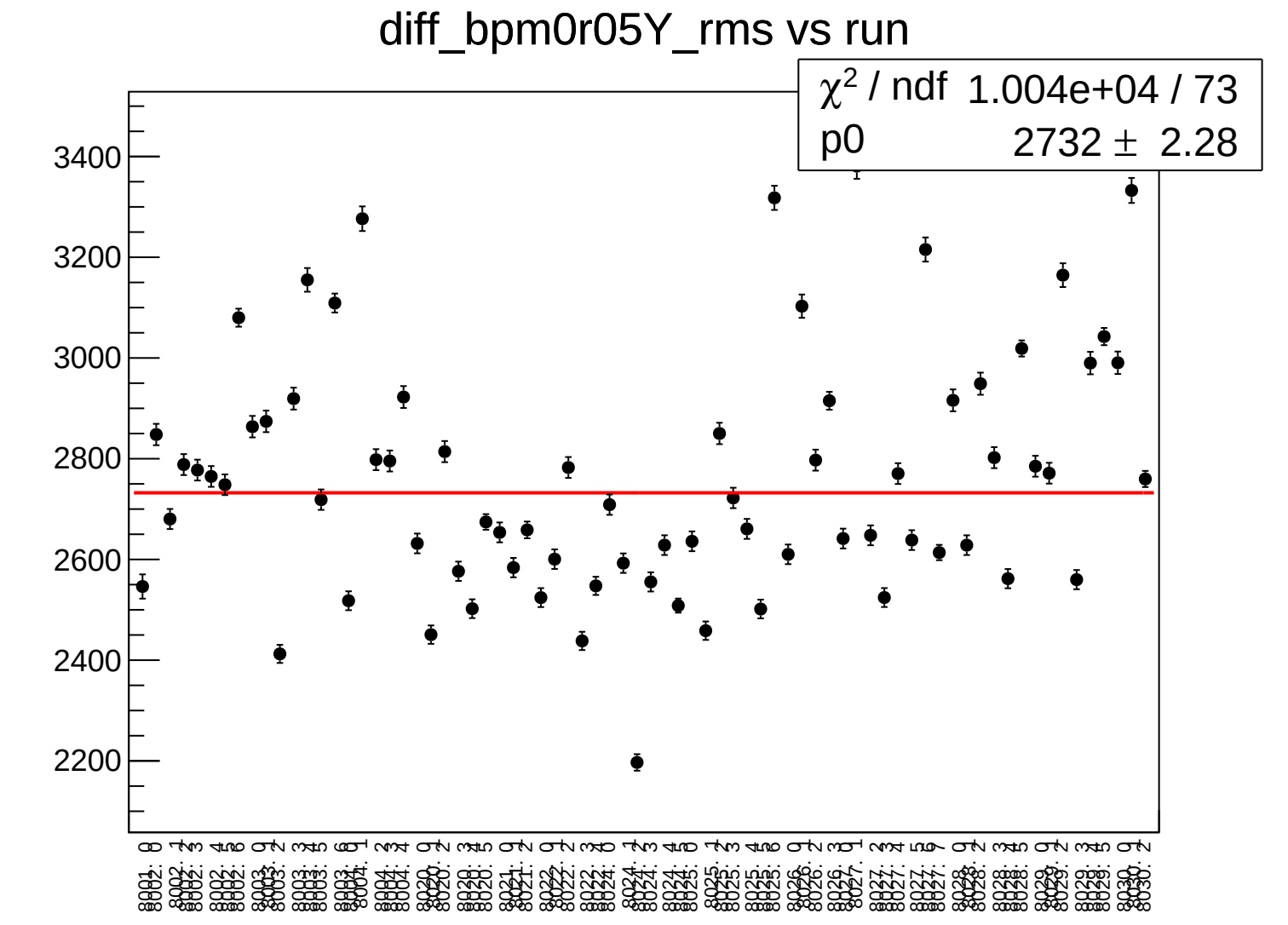

diff_bpm0r05X_mean vs run
χ² / ndf 72.79 / 73
p0 118.8 ± 73.28
pull
Entries 74
Mean 79.2
Std Dev 61.55

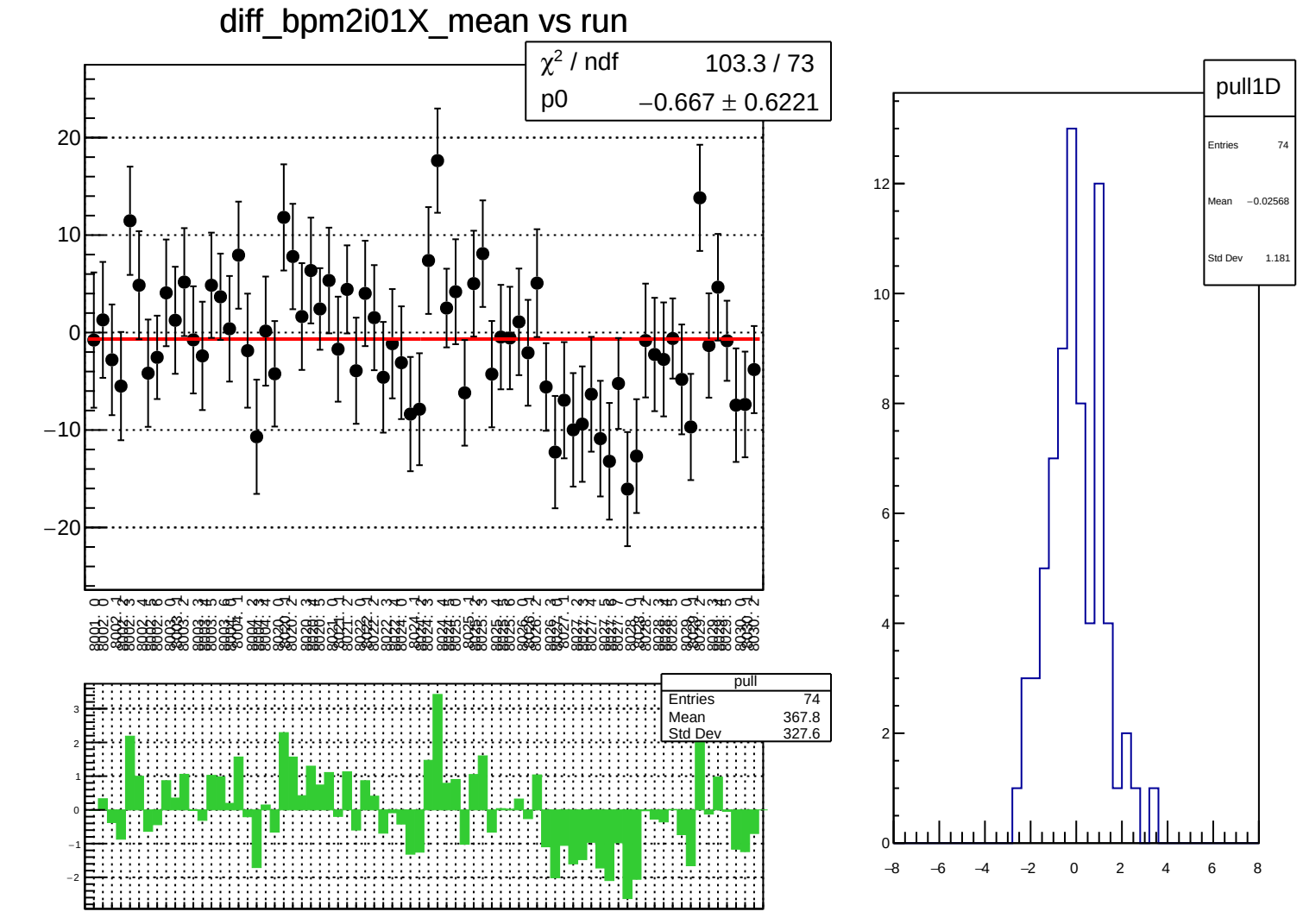

pull1D
Entries 74
Mean −0.01364
Std Dev 0.9917

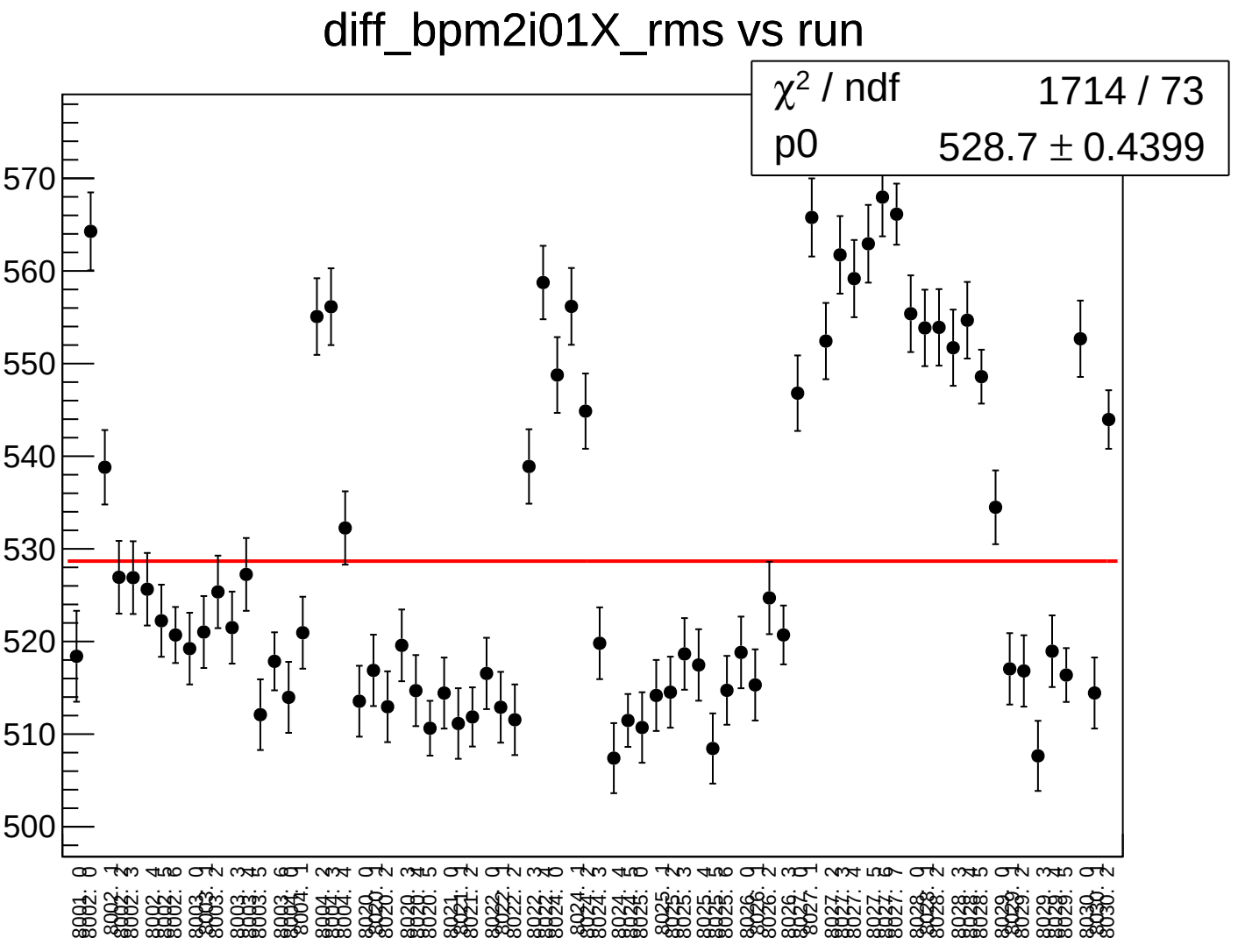

diff_bpm0r05X_rms vs run
χ² / ndf 1.699e+04 / 73
p0 6.194e+04 ± 51.82
85000
80000
75000
70000
65000
60000
55000
50000
45000

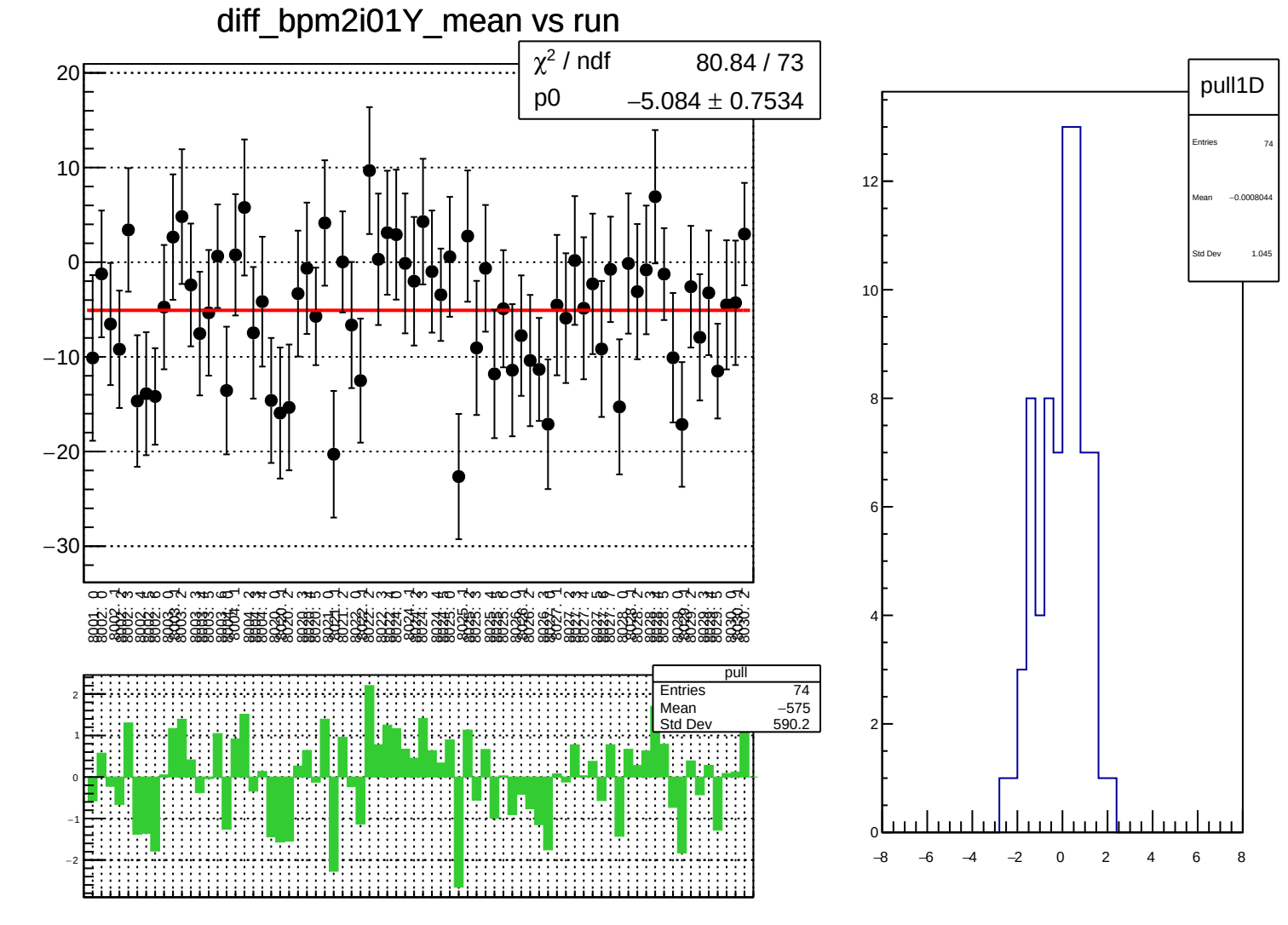

diff_bpm0r05Y_mean vs run
χ² / ndf 161.3 / 73
p0 39.92 ± 3.225
150
100
50
0
−50
−100
pull
Entries 74
Mean 481.8
Std Dev 445.2
3
2
1
0
−1
−2
−3
−4

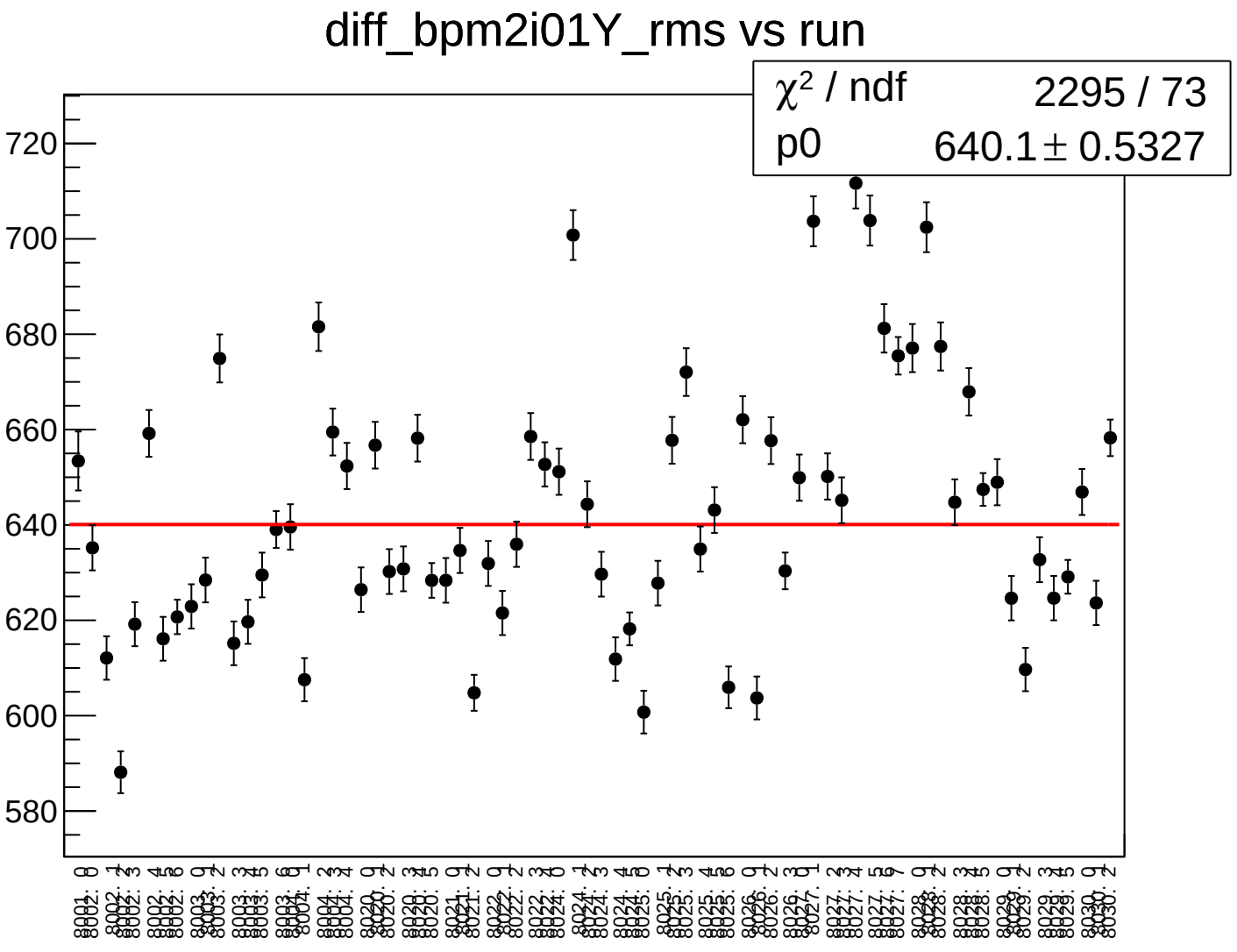

pull1D
Entries 74
Mean −0.01961
Std Dev 1.476
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

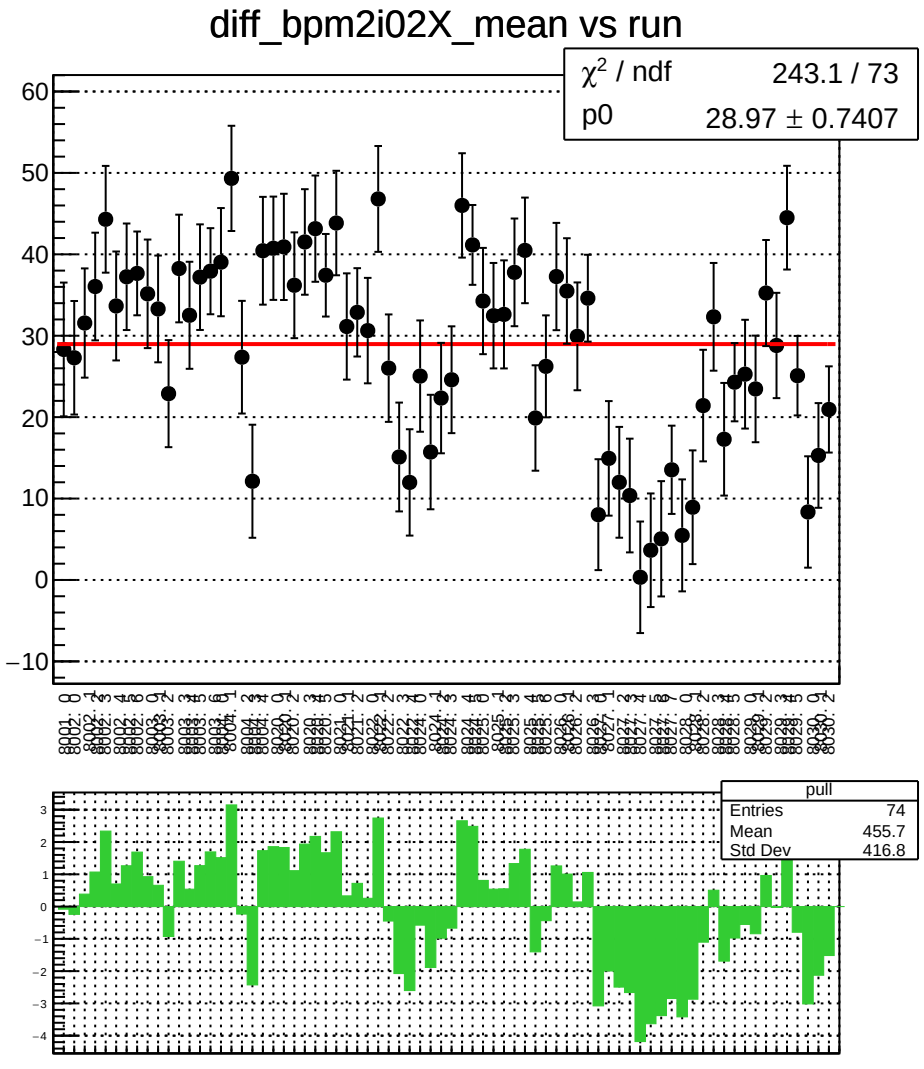

diff_bpm0r05Y_rms vs run
χ² / ndf 1.004e+04 / 73
p0 2732 ± 2.28
3400
3200
3000
2800
2600
2400
2200

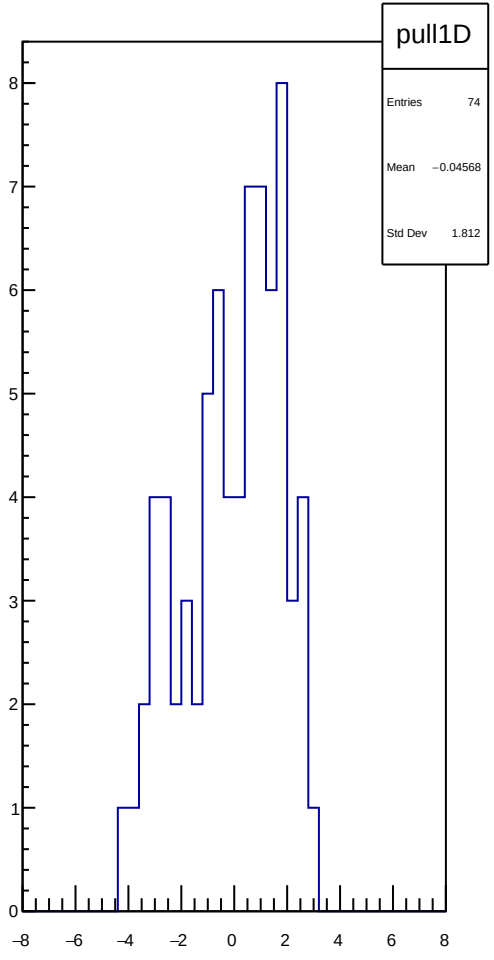

diff_bpm2i01X_mean vs run
χ² / ndf 103.3 / 73
p0 −0.667 ± 0.6221
pull
Entries 74
Mean 367.8
Std Dev 327.6
pull1D
Entries 74
Mean −0.02568
Std Dev 1.181

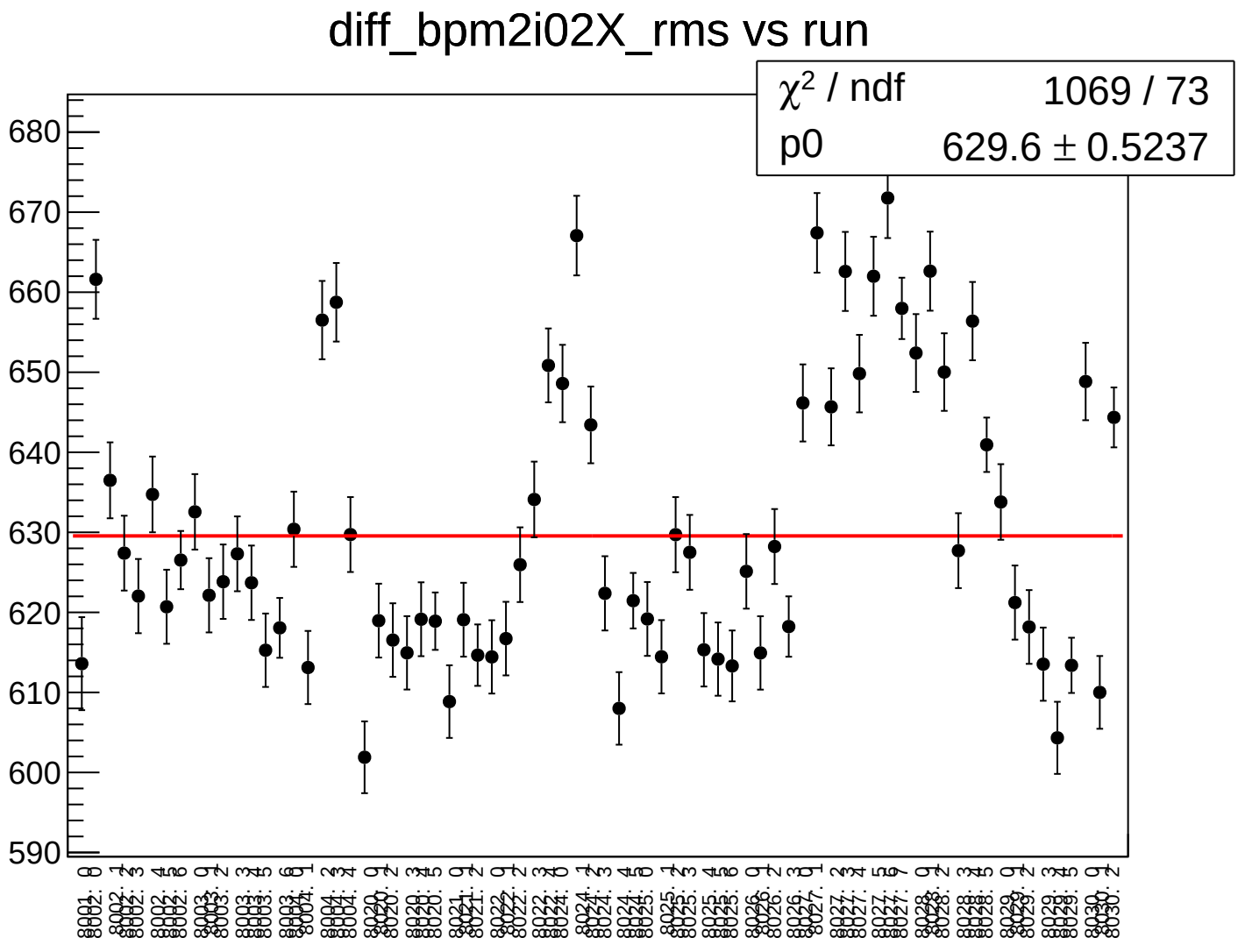

diff_bpm2i01X_rms vs run
χ² / ndf 1714 / 73
p0 528.7 ± 0.4399
570
560
550
540
530
520
510
500

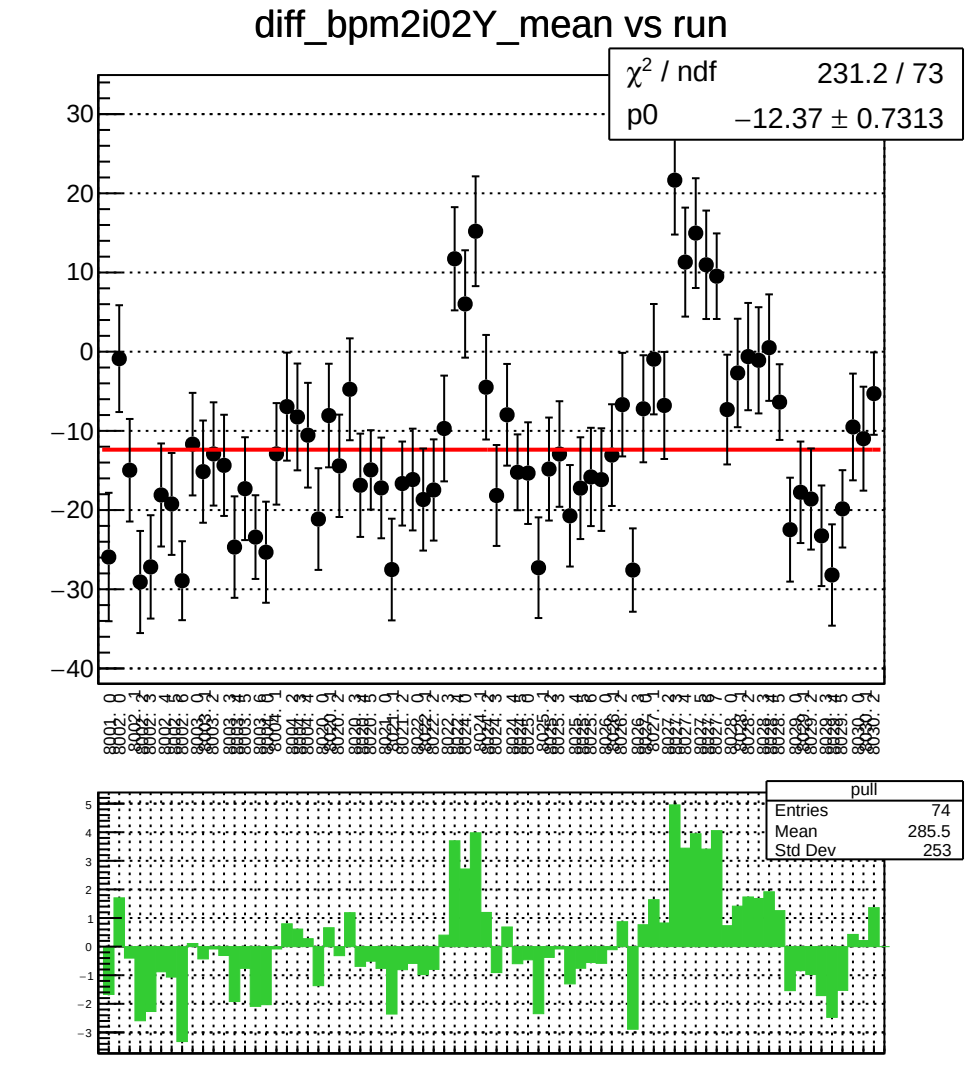

diff_bpm2i01Y_mean vs run
χ² / ndf 80.84 / 73
p0 −5.084 ± 0.7534
pull
Entries 74
Mean −575
Std Dev 590.2
pull1D
Entries 74
Mean −0.0008044
Std Dev 1.045

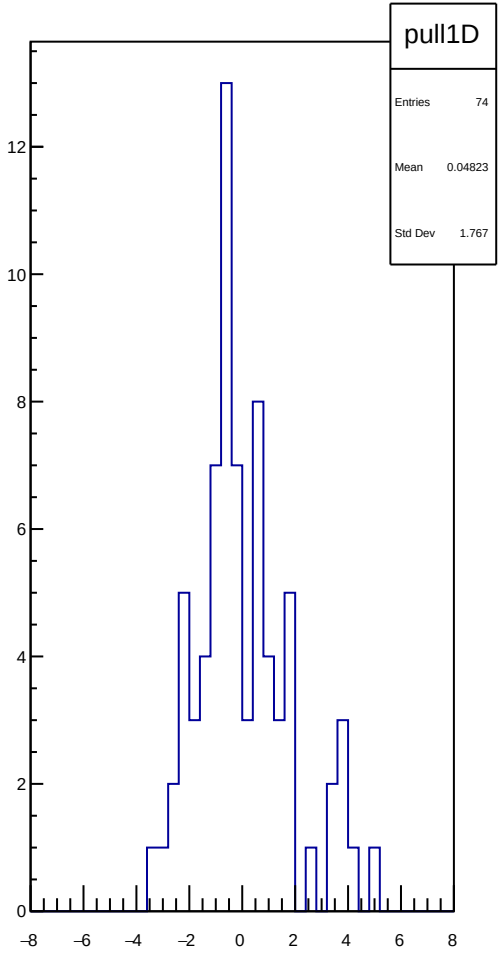

diff_bpm2i01Y_rms vs run
χ² / ndf 2295 / 73
p0 640.1 ± 0.5327
720
700
680
660
640
620
600
580

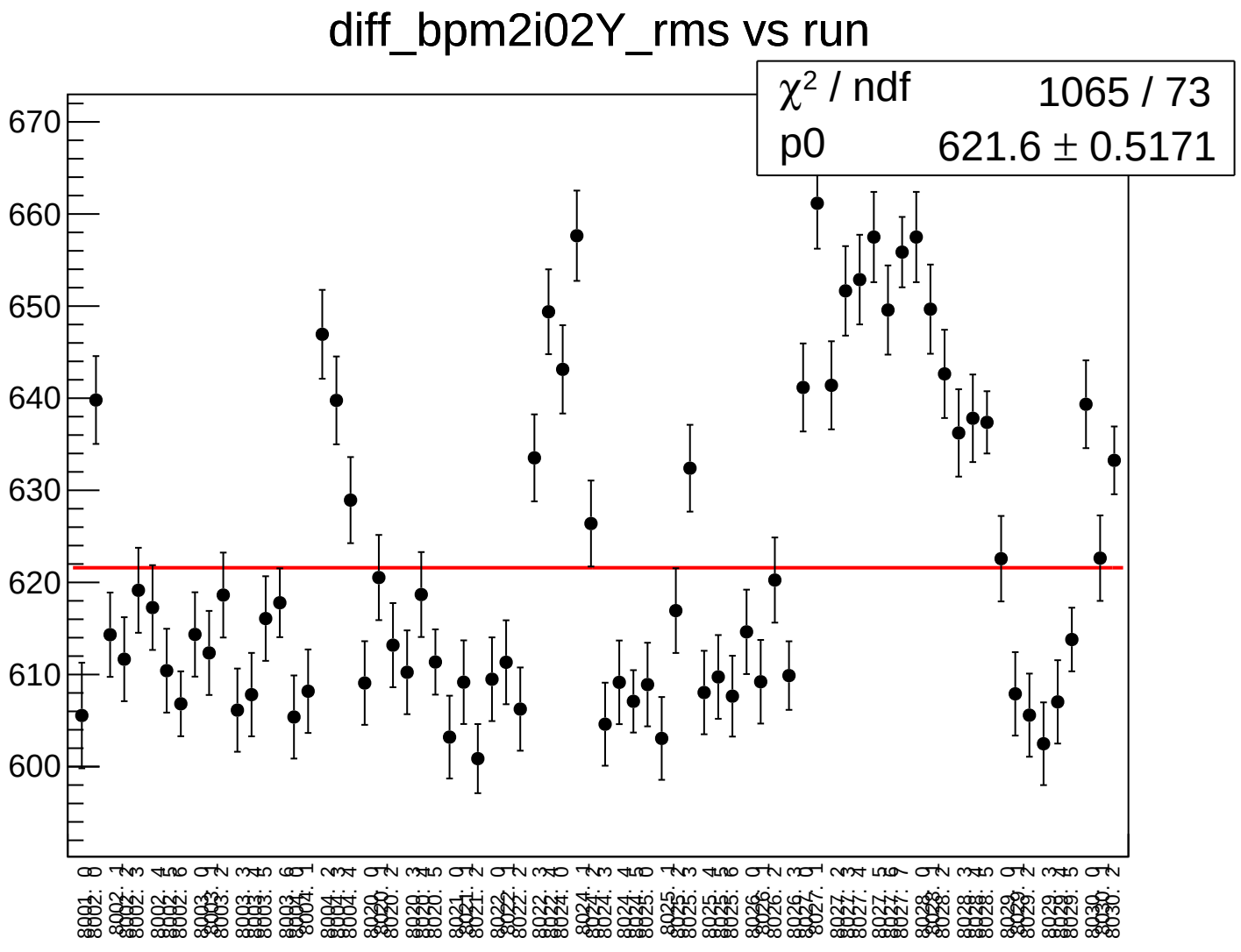

diff_bpm2i02X_mean vs run
χ² / ndf 243.1 / 73
p0 28.97 ± 0.7407
pull
Entries 74
Mean 455.7
Std Dev 416.8

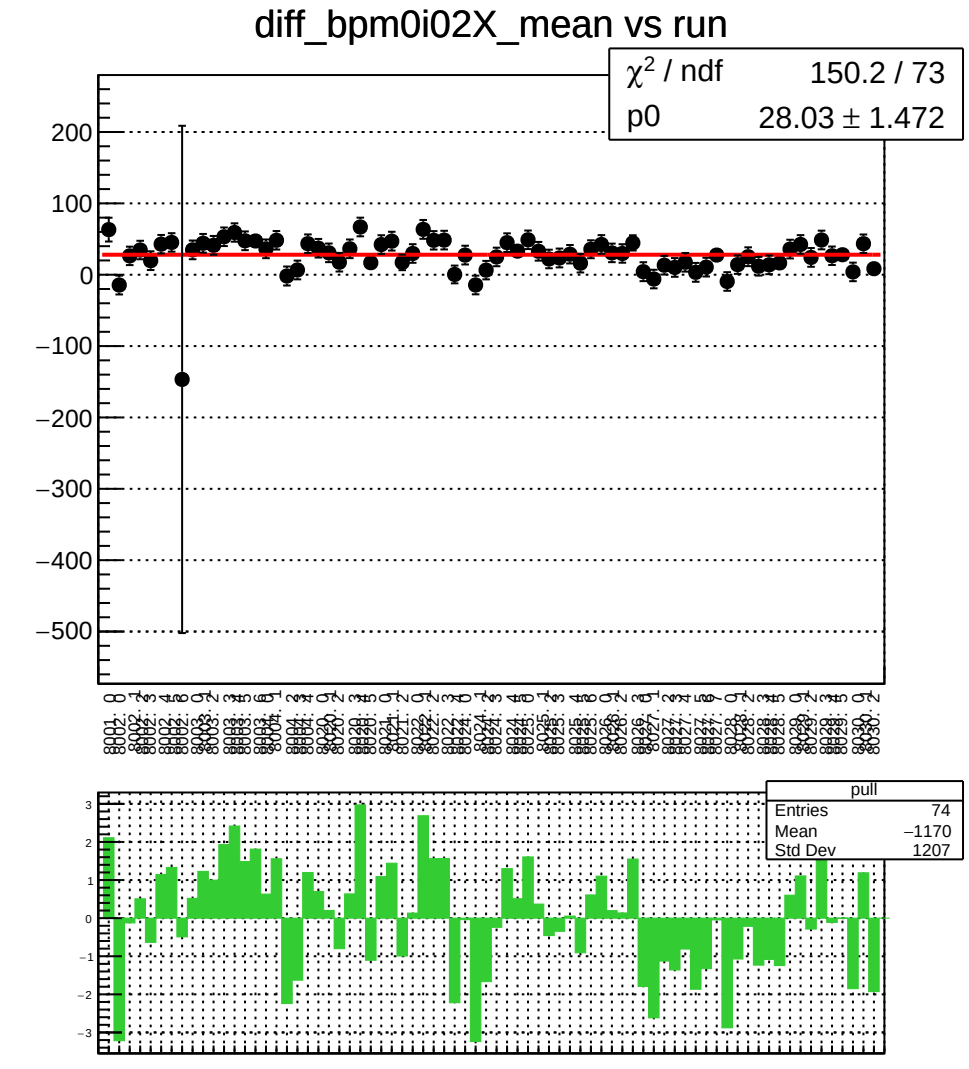

pull1D
Entries 74
Mean −0.04568
Std Dev 1.812

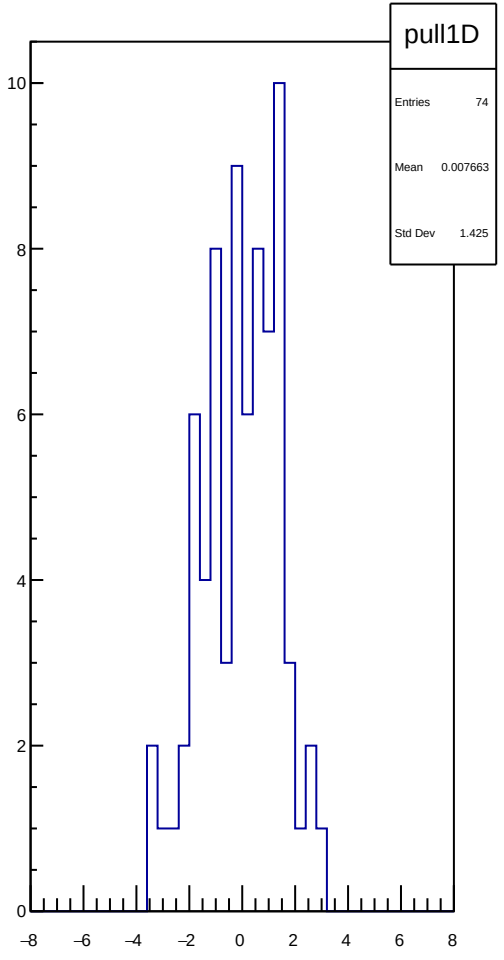

diff_bpm2i02X_rms vs run
χ² / ndf 1069 / 73
p0 629.6 ± 0.5237
680
670
660
650
640
630
620
610
600
590

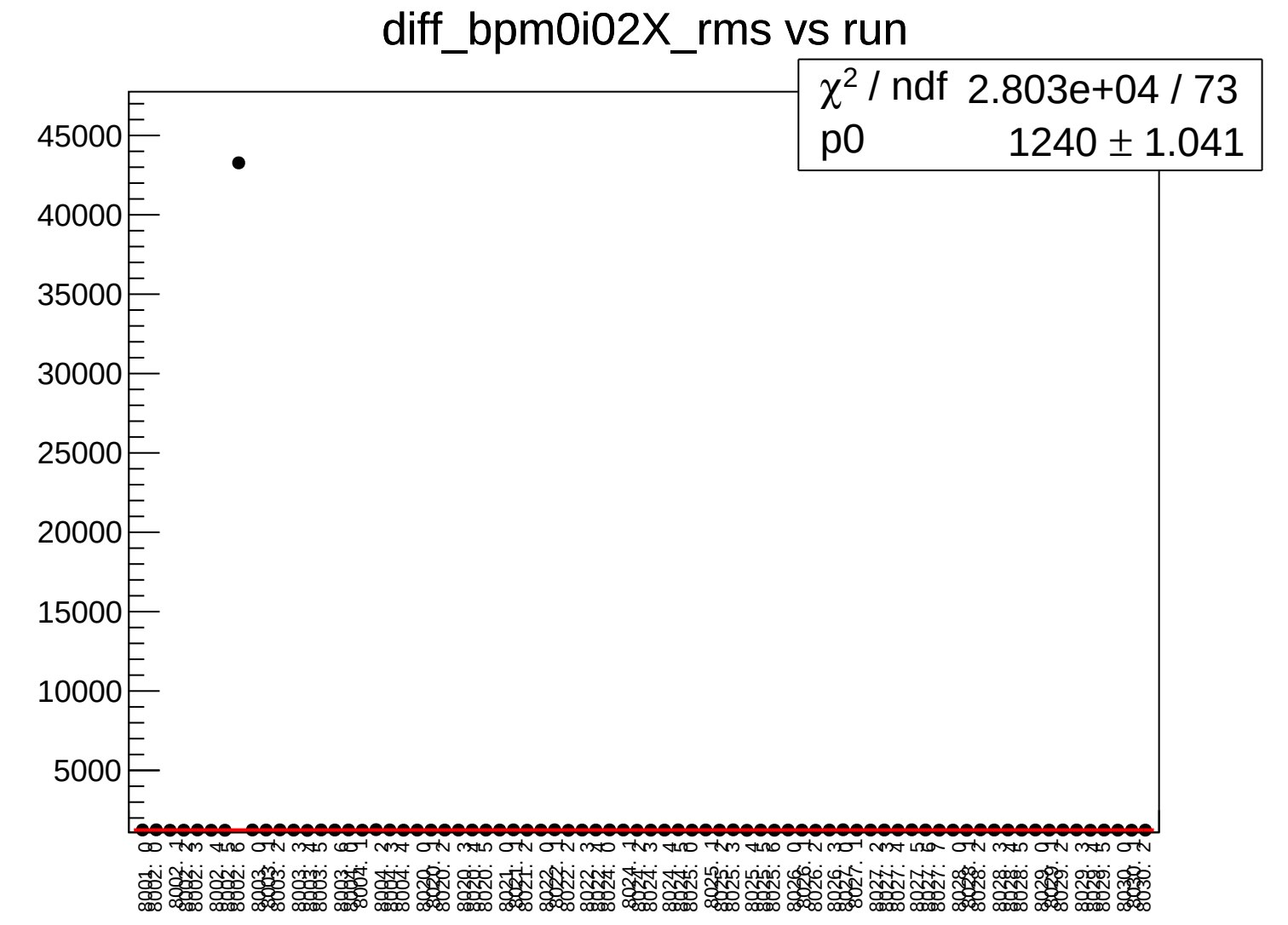

diff_bpm2i02Y_mean vs run
χ² / ndf 231.2 / 73
p0 −12.37 ± 0.7313
pull
Entries 74
Mean 285.5
Std Dev 253

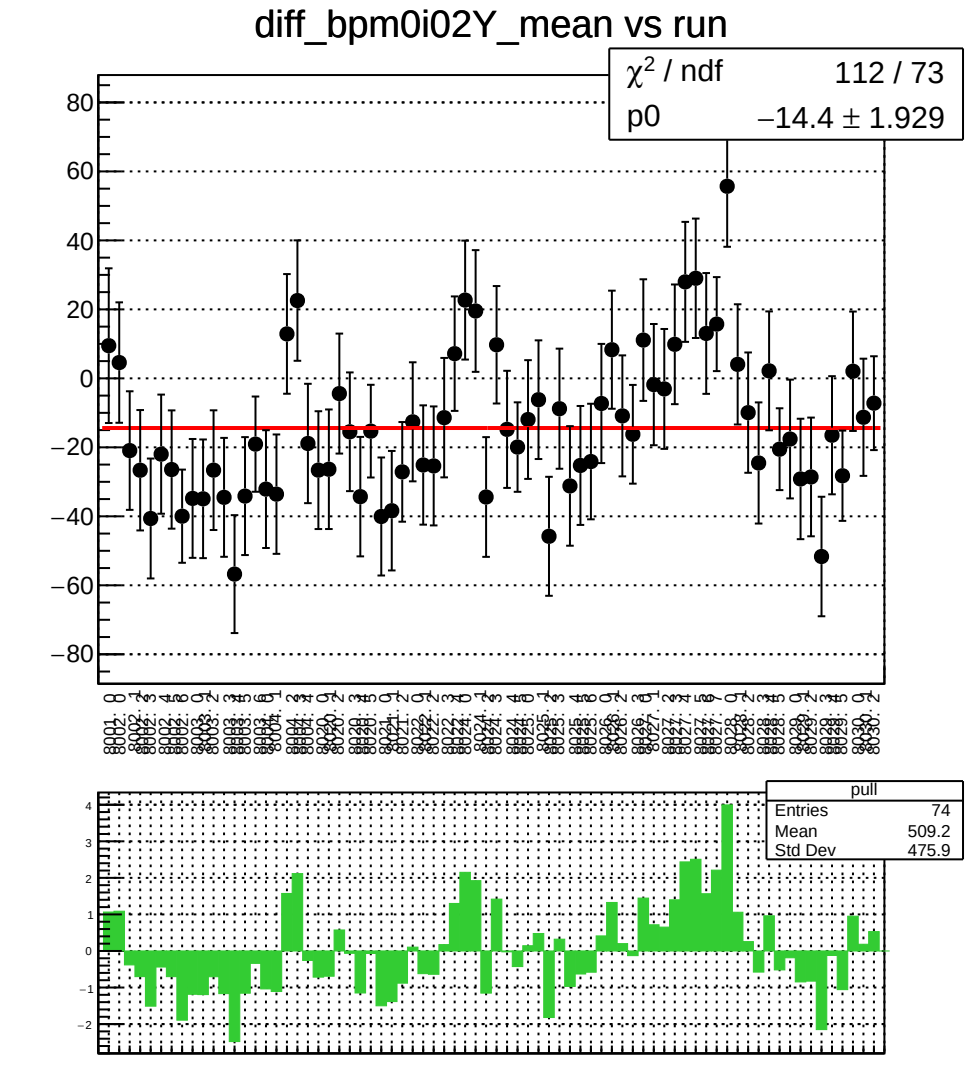

pull1D
Entries 74
Mean 0.04823
Std Dev 1.767

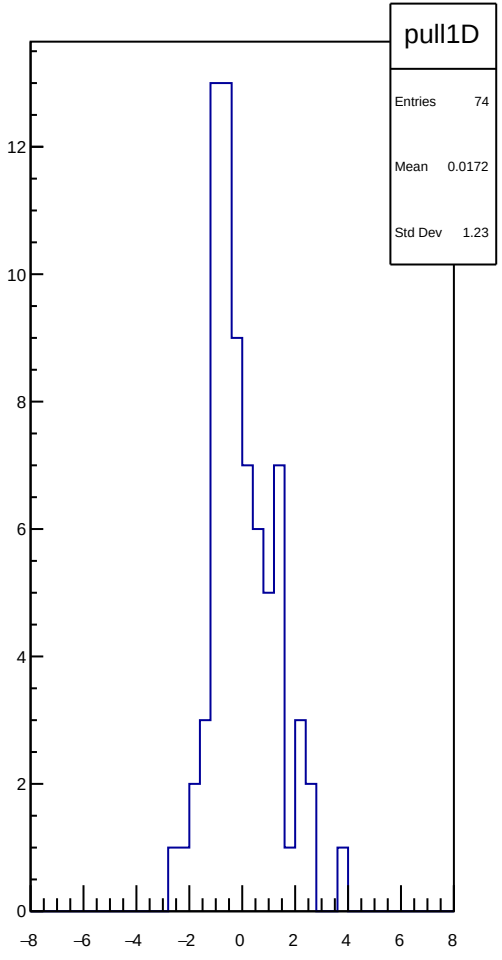

diff_bpm2i02Y_rms vs run
χ² / ndf 1065 / 73
p0 621.6 ± 0.5171
670
660
650
640
630
620
610
600

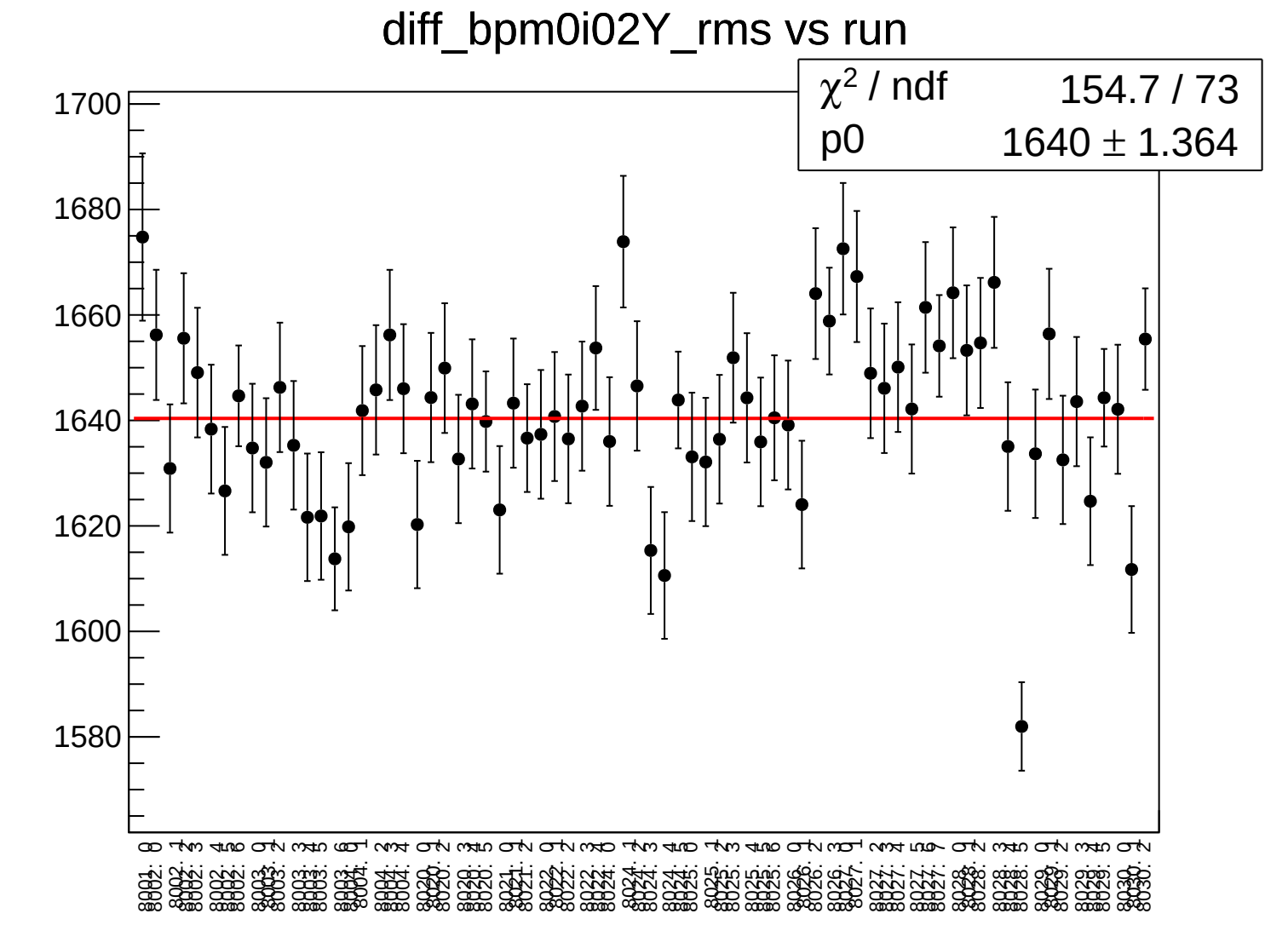

diff_bpm0i02X_mean vs run
χ² / ndf 150.2 / 73
p0 28.03 ± 1.472
pull
Entries 74
Mean −1170
Std Dev 1207

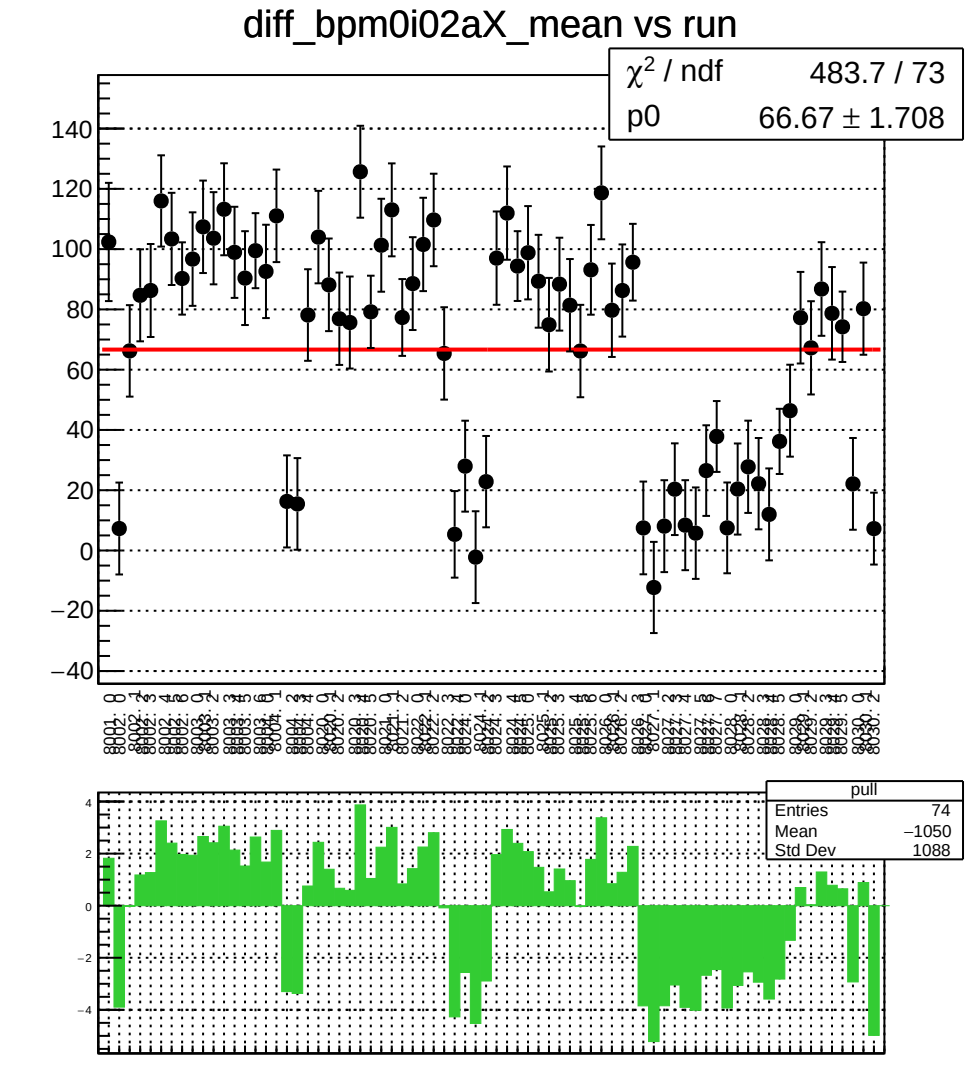

pull1D
Entries 74
Mean 0.007663
Std Dev 1.425

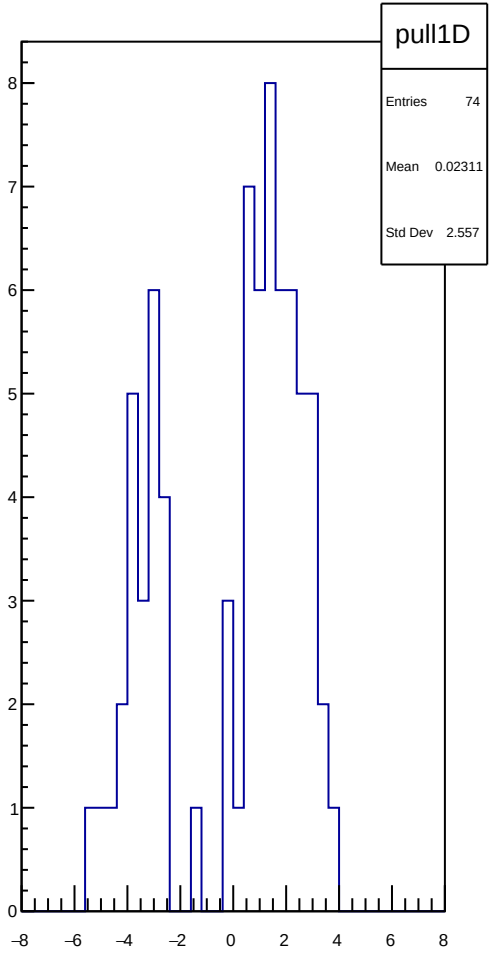

diff_bpm0i02X_rms vs run
χ² / ndf 2.803e+04 / 73
p0 1240 ± 1.041
45000
40000
35000
30000
25000
20000
15000
10000
5000

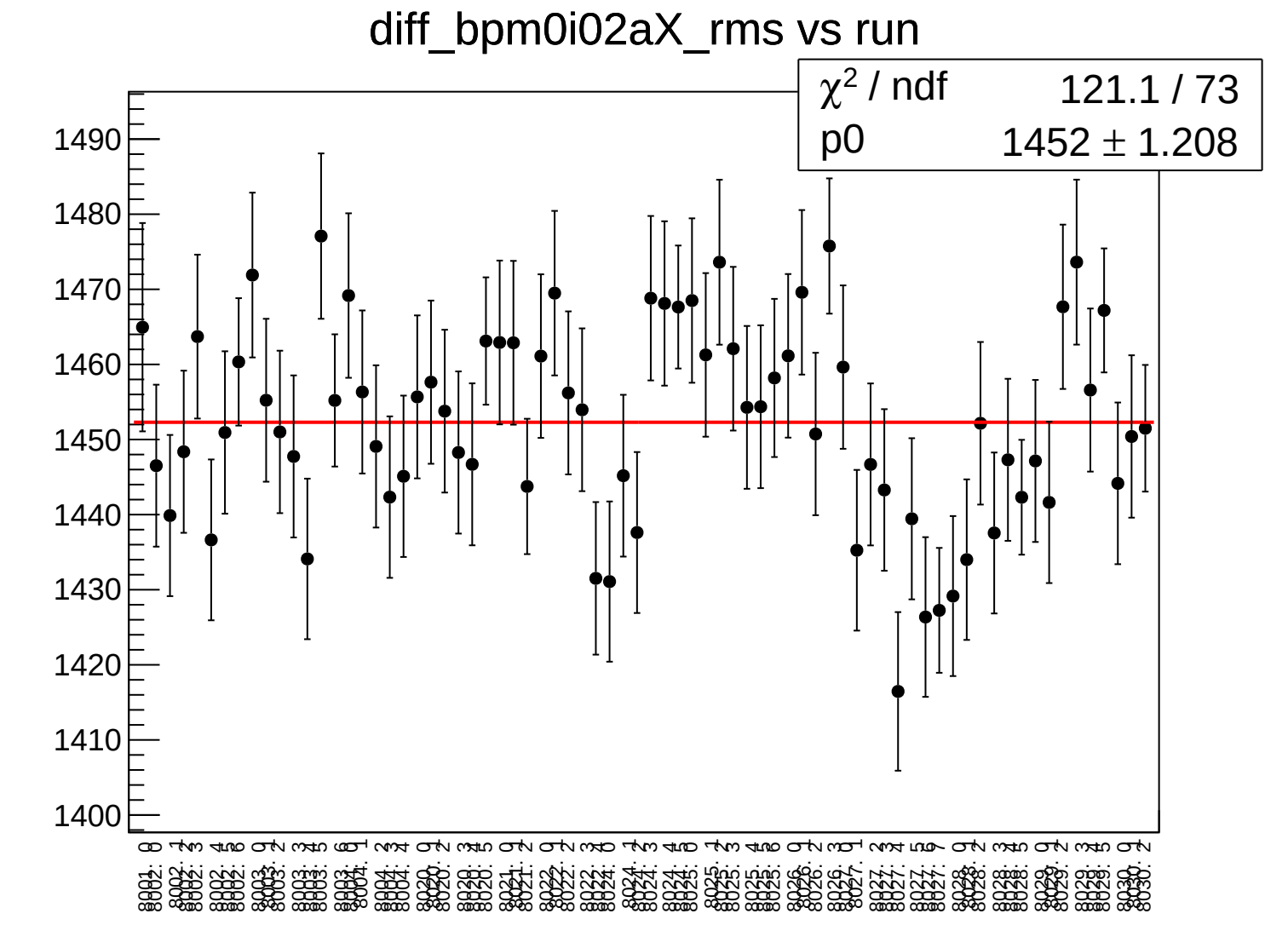

diff_bpm0i02Y_mean vs run
χ² / ndf 112 / 73
p0 −14.4 ± 1.929
pull
Entries 74
Mean 509.2
Std Dev 475.9

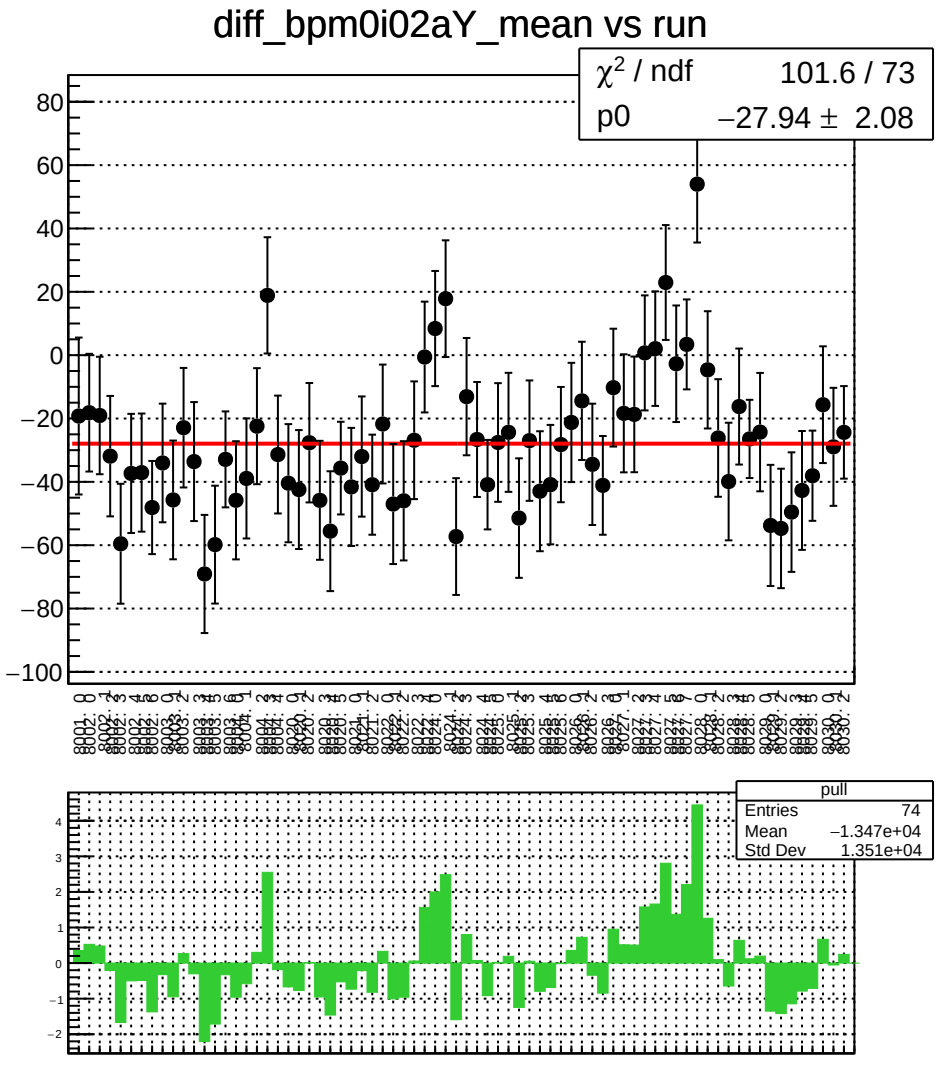

pull1D
Entries 74
Mean 0.0172
Std Dev 1.23

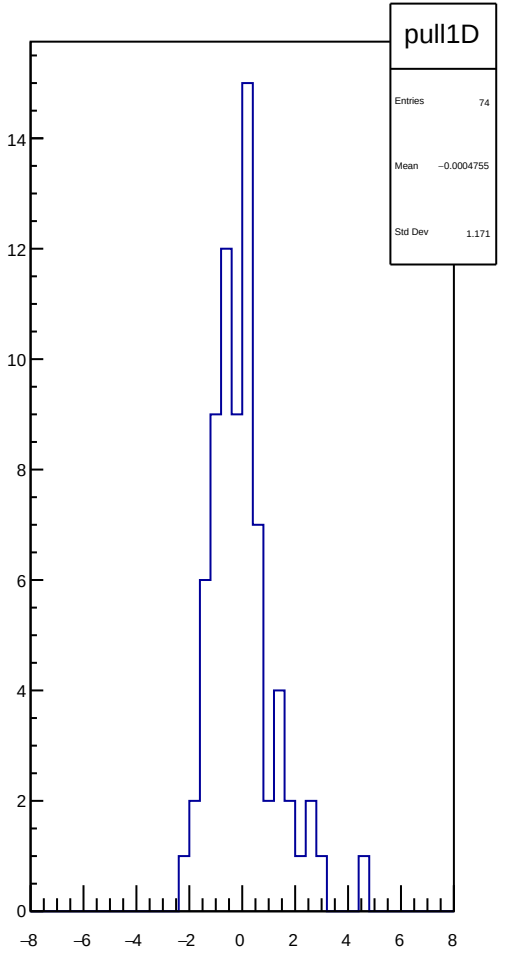

diff_bpm0i02Y_rms vs run
χ² / ndf 154.7 / 73
p0 1640 ± 1.364
1700
1680
1660
1640
1620
1600
1580

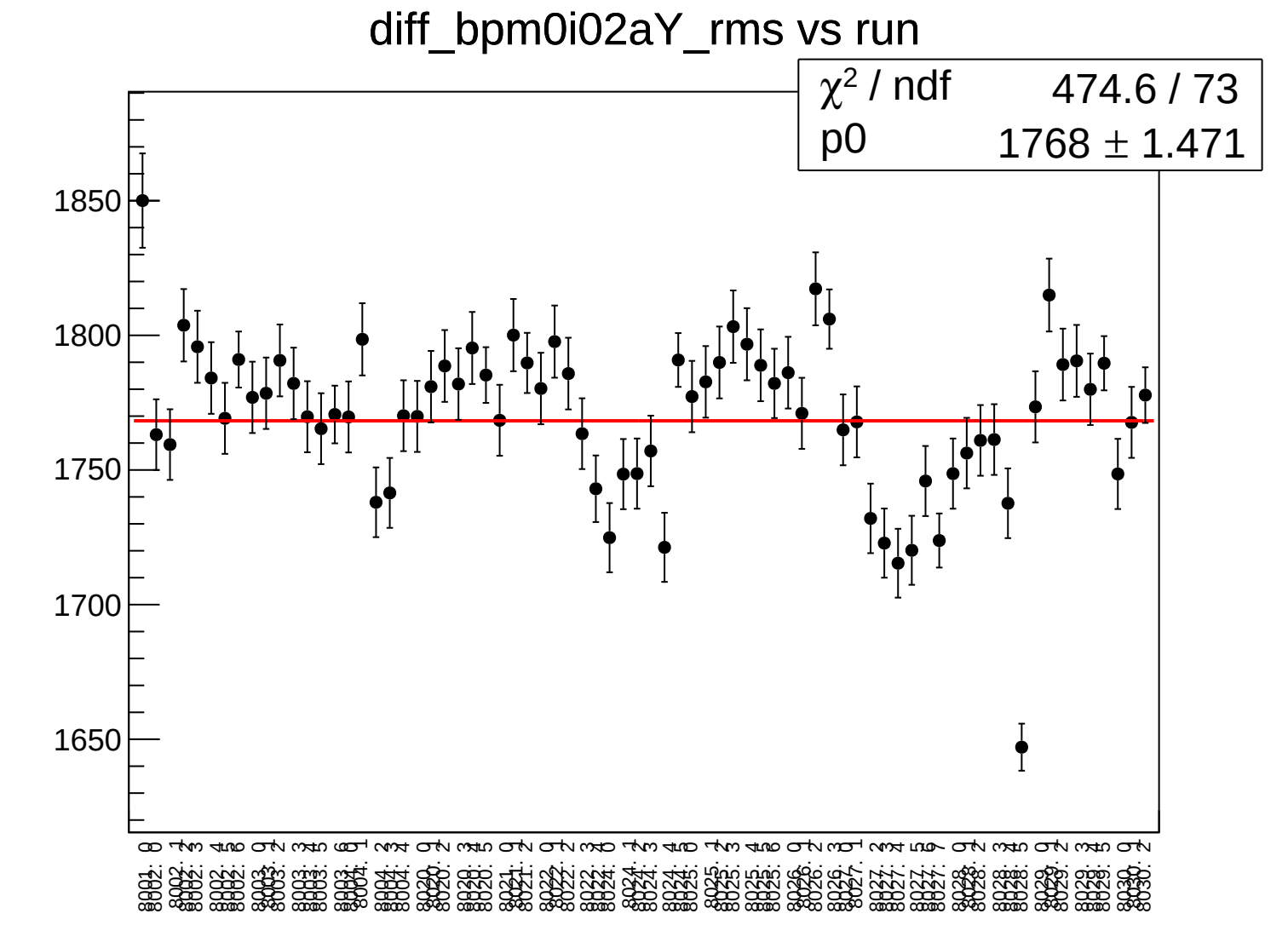

diff_bpm0i02aX_mean vs run
χ² / ndf 483.7 / 73
p0 66.67 ± 1.708
pull
Entries 74
Mean −1050
Std Dev 1088

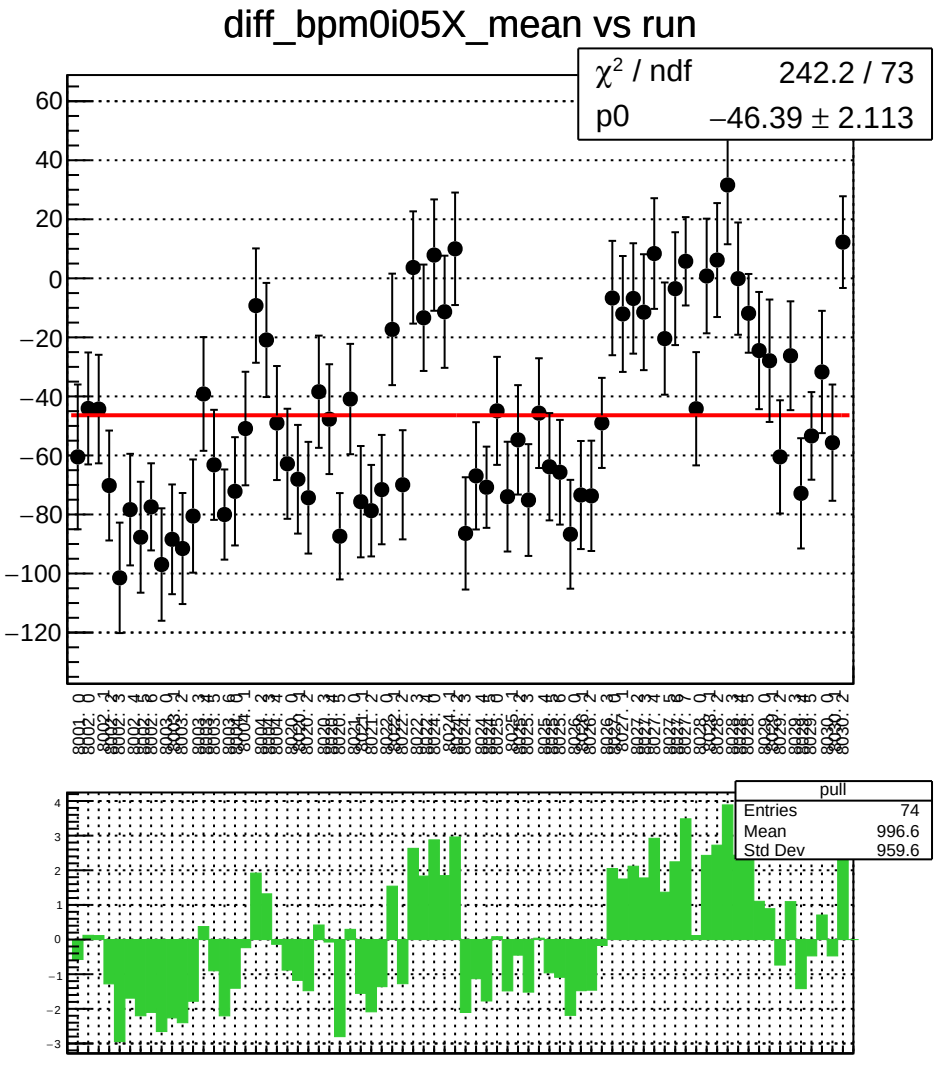

pull1D
Entries 74
Mean 0.02311
Std Dev 2.557

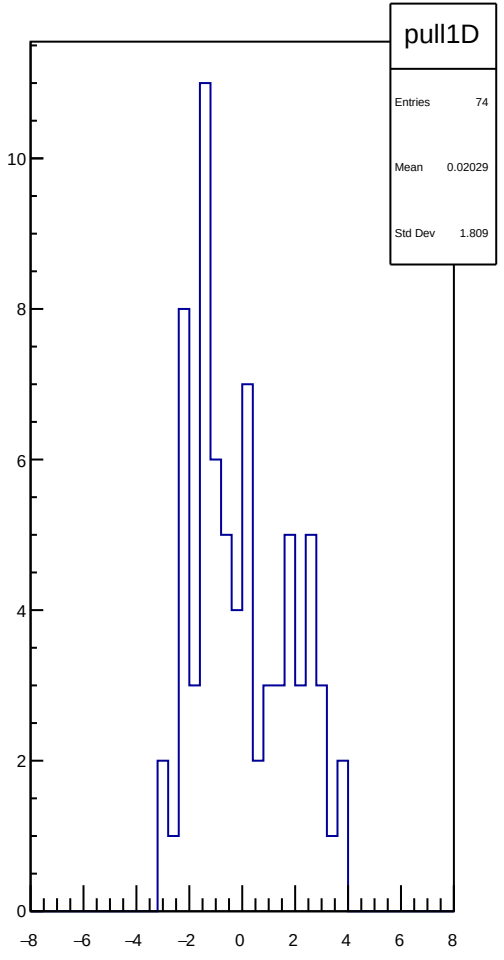

diff_bpm0i02aX_rms vs run
χ² / ndf 121.1 / 73
p0 1452 ± 1.208
1490
1480
1470
1460
1450
1440
1430
1420
1410
1400

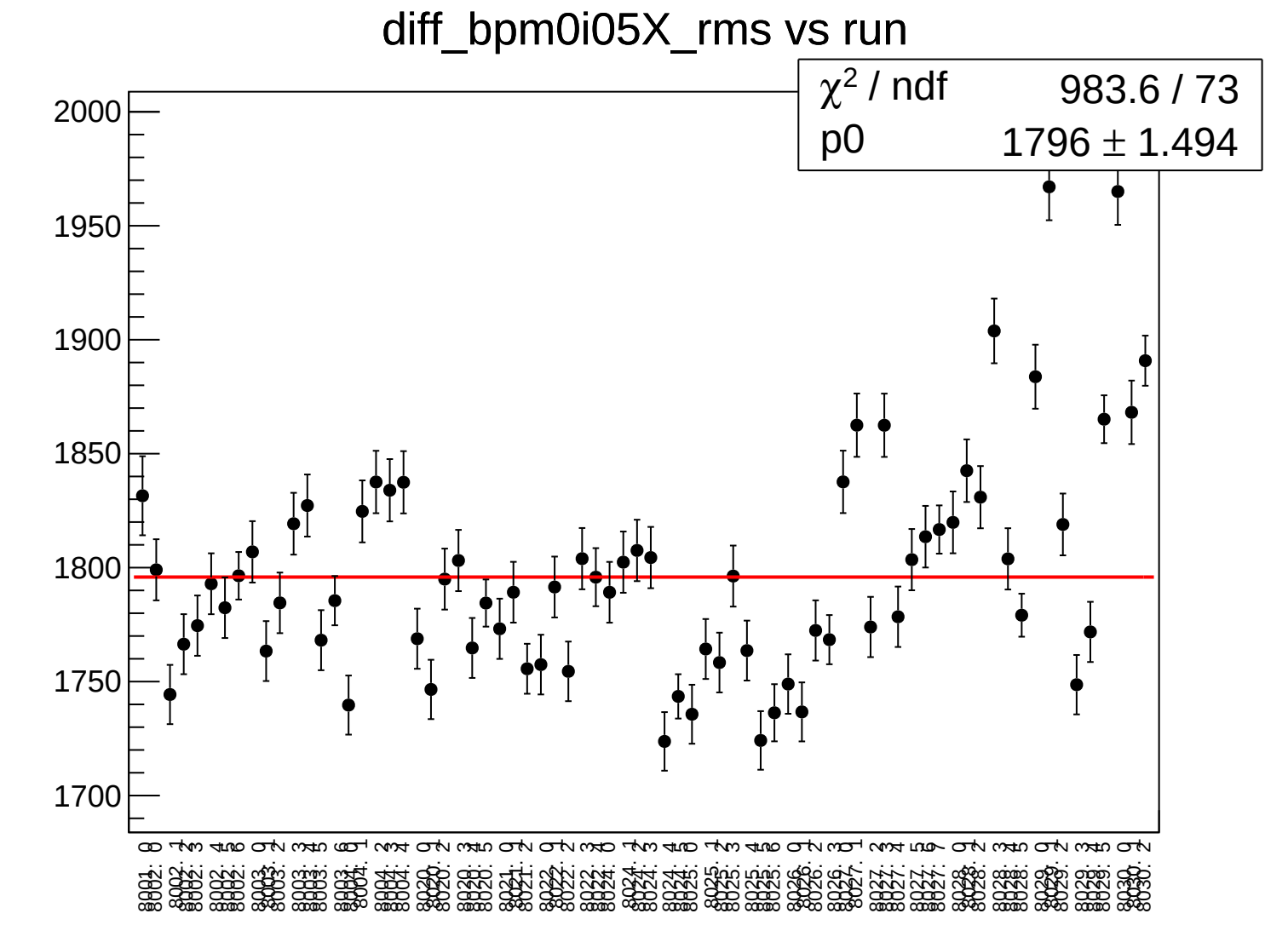

diff_bpm0i02aY_mean vs run
χ² / ndf 101.6 / 73
p0 −27.94 ± 2.08
pull
Entries 74
Mean −1.347e+04
Std Dev 1.351e+04

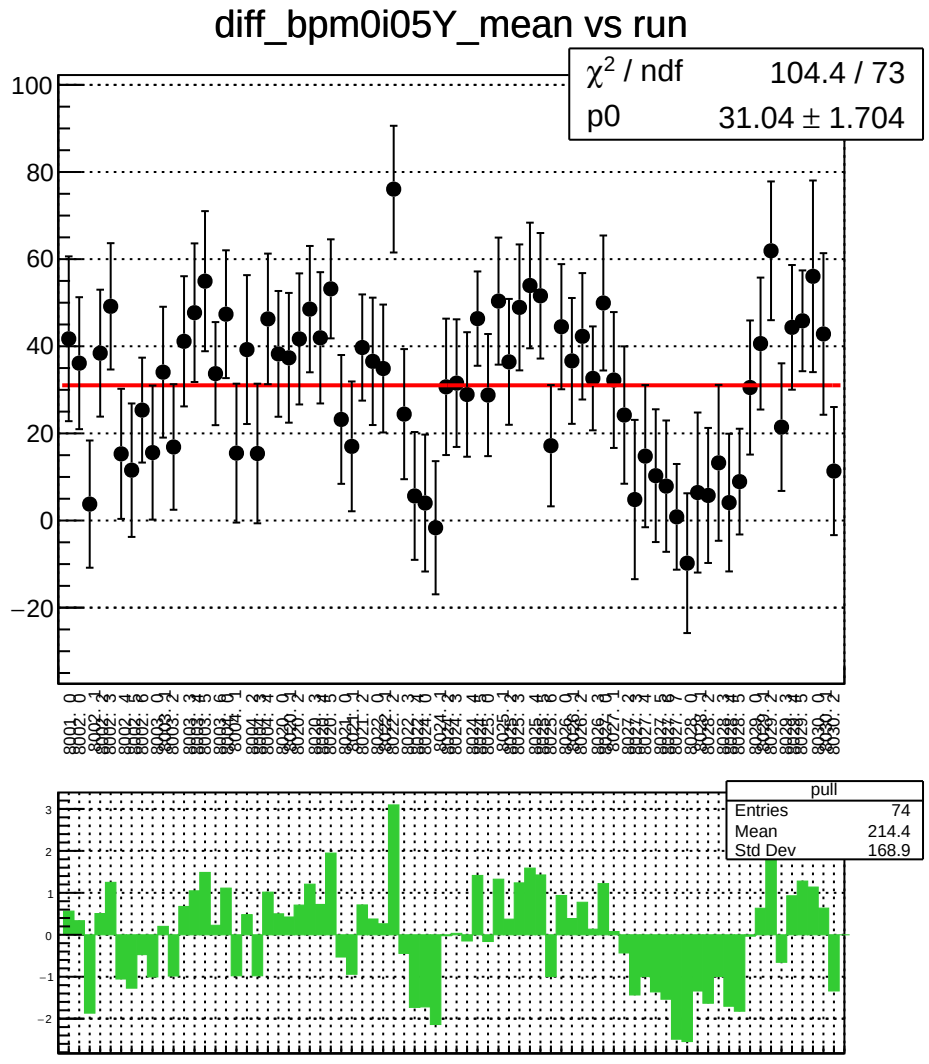

pull1D
Entries 74
Mean −0.0004755
Std Dev 1.171

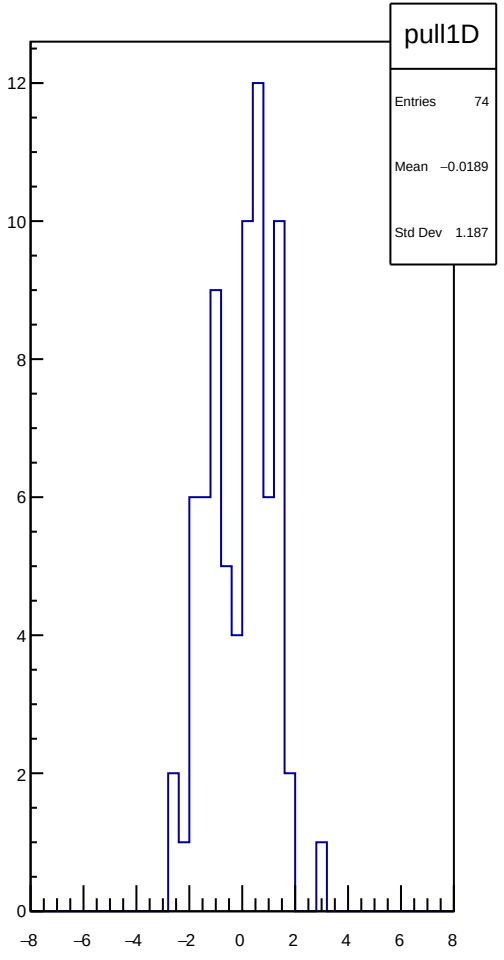

diff_bpm0i02aY_rms vs run
χ² / ndf 474.6 / 73
p0 1768 ± 1.471
1850
1800
1750
1700
1650

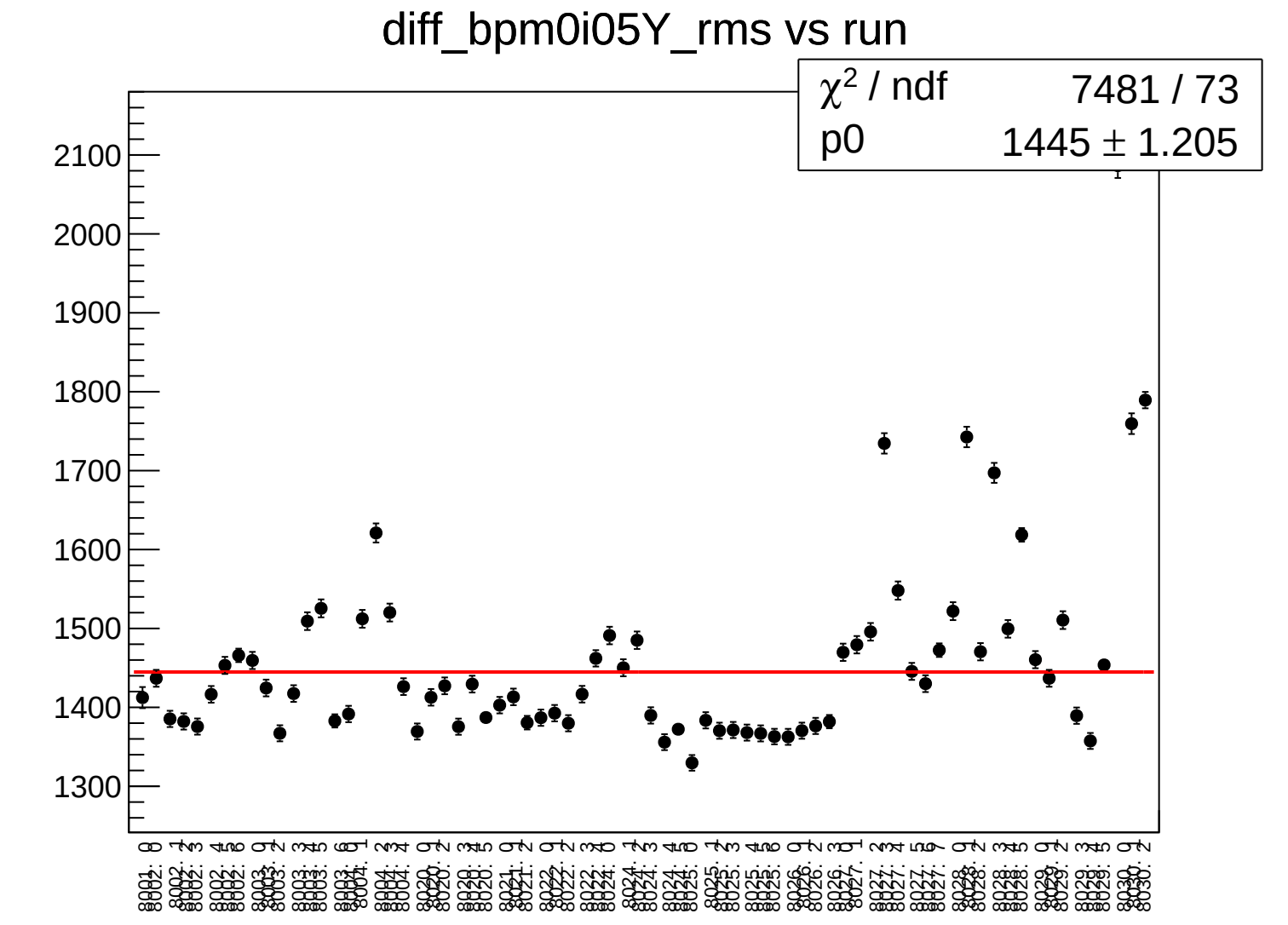

diff_bpm0i05X_mean vs run
χ² / ndf 242.2 / 73
p0 −46.39 ± 2.113
pull
Entries 74
Mean 996.6
Std Dev 959.6

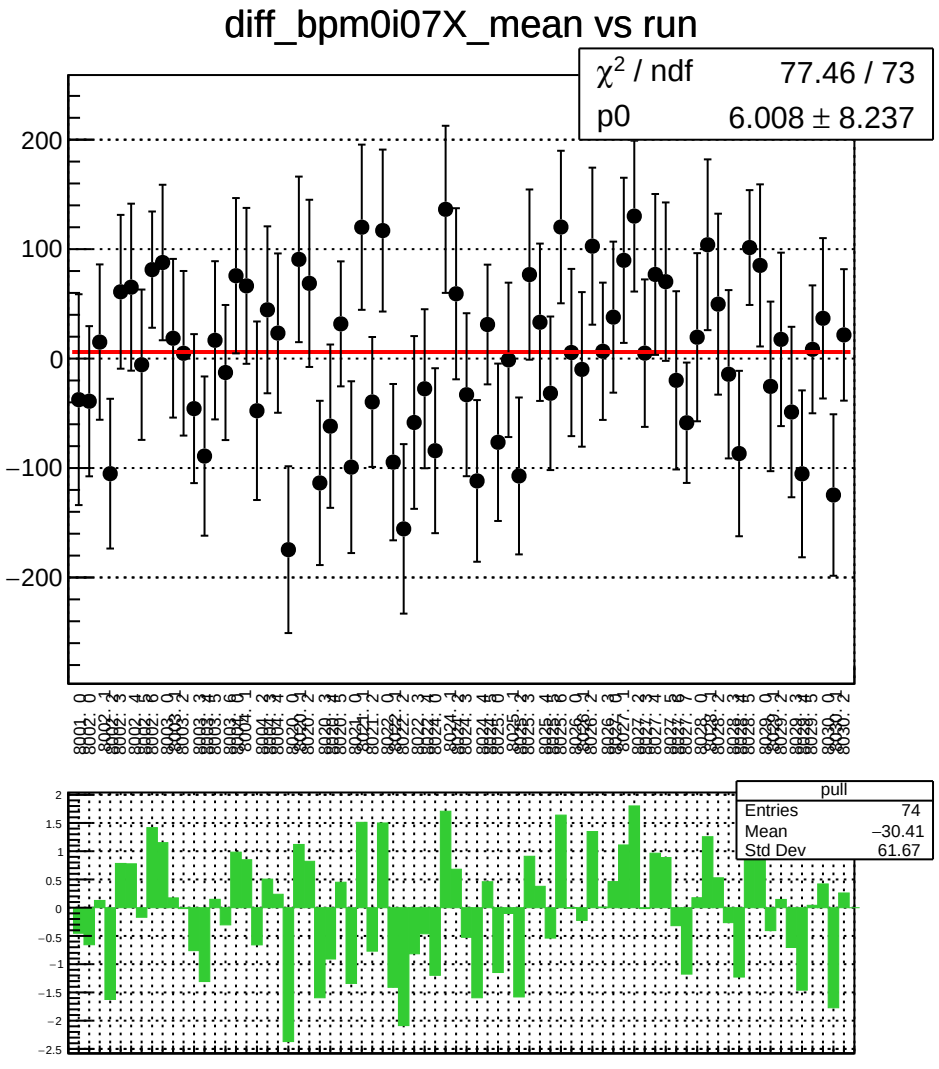

pull1D
Entries 74
Mean 0.02029
Std Dev 1.809

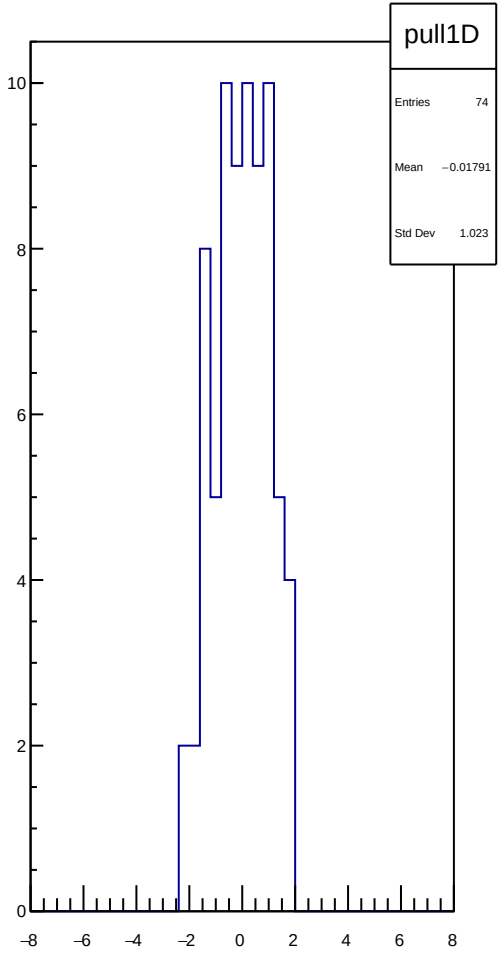

diff_bpm0i05X_rms vs run
χ² / ndf 983.6 / 73
p0 1796 ± 1.494
2000
1950
1900
1850
1800
1750
1700

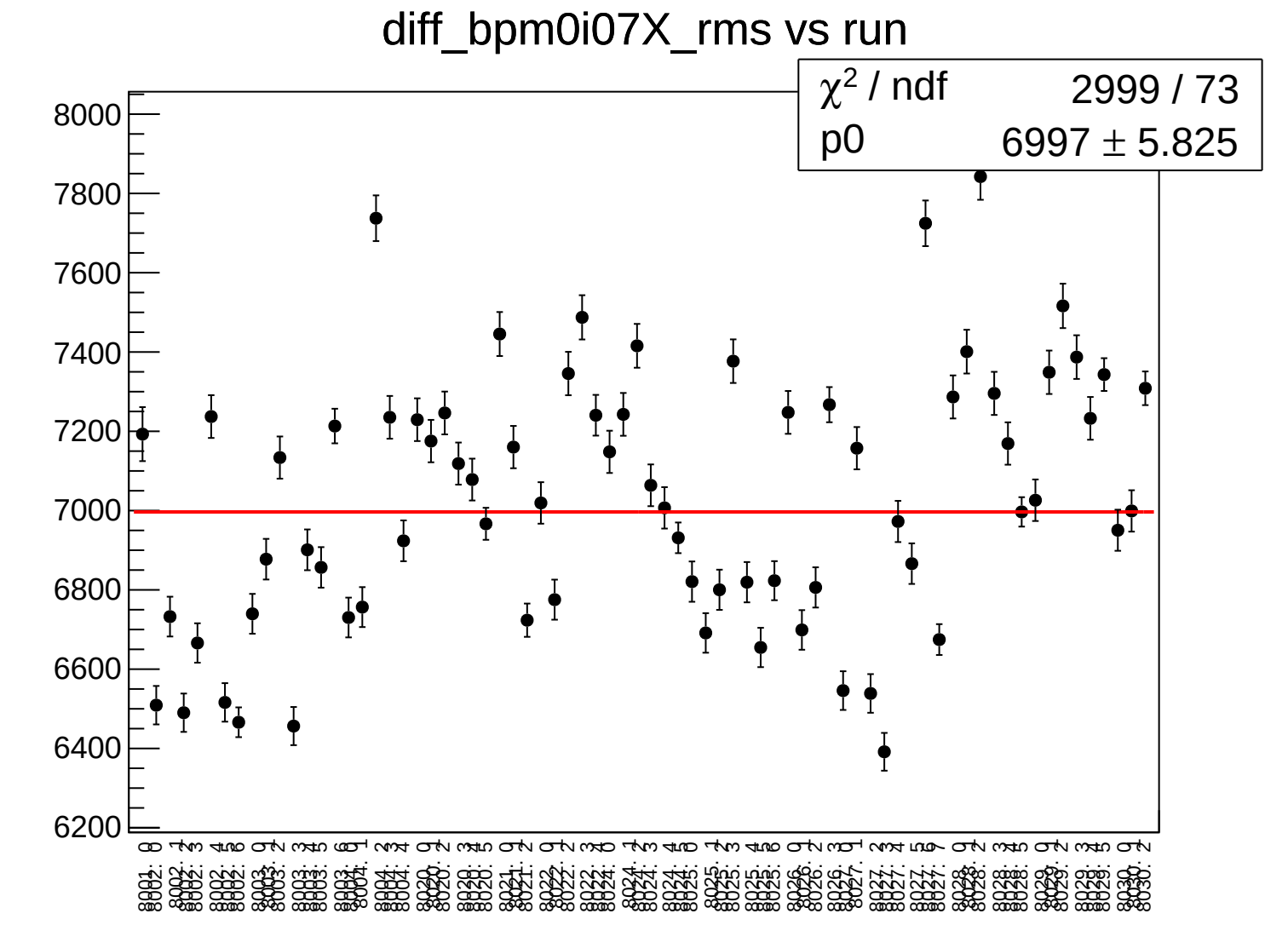

diff_bpm0i05Y_mean vs run
χ² / ndf 104.4 / 73
p0 31.04 ± 1.704
pull
Entries 74
Mean 214.4
Std Dev 168.9

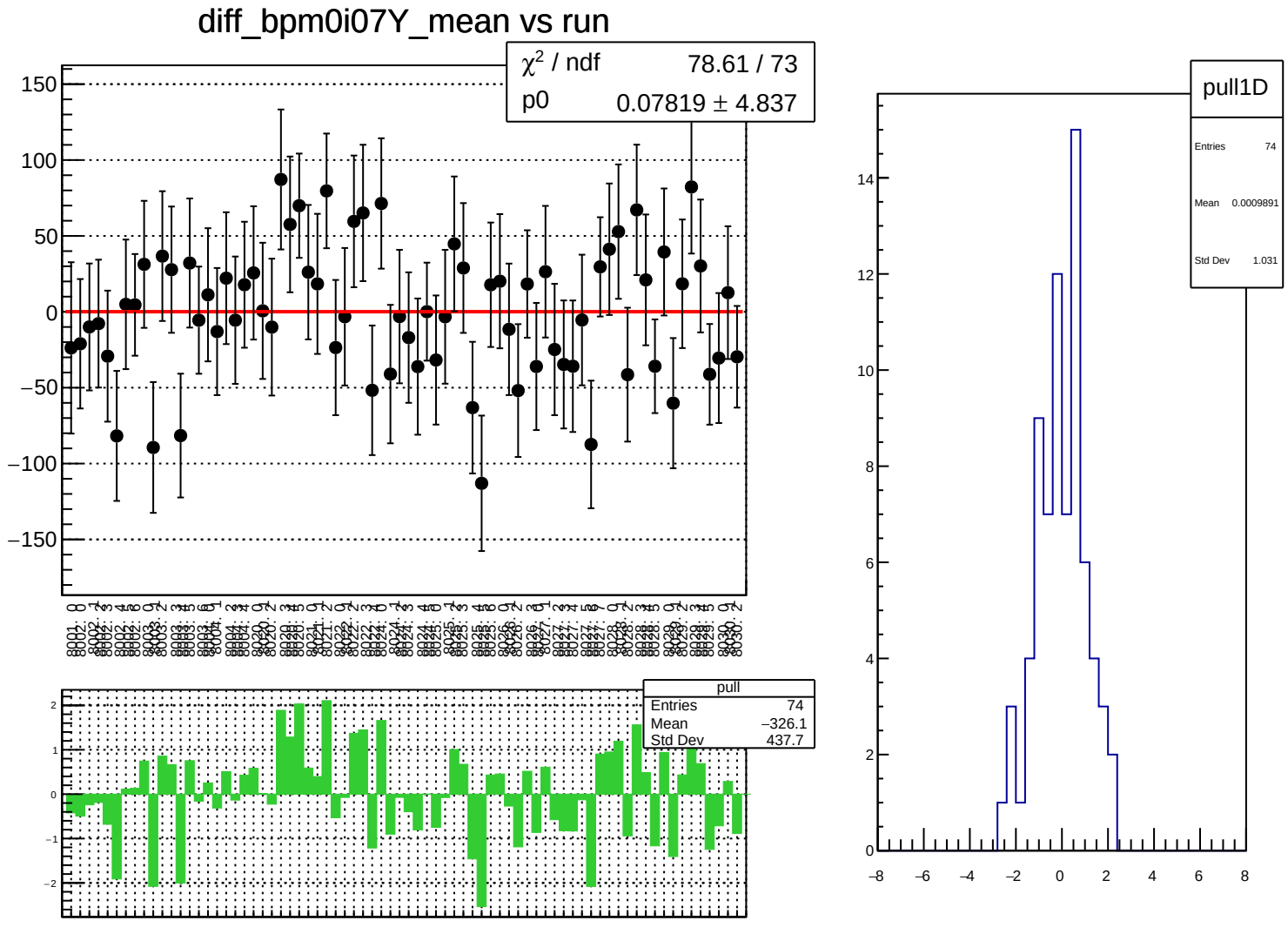

pull1D
Entries 74
Mean −0.0189
Std Dev 1.187

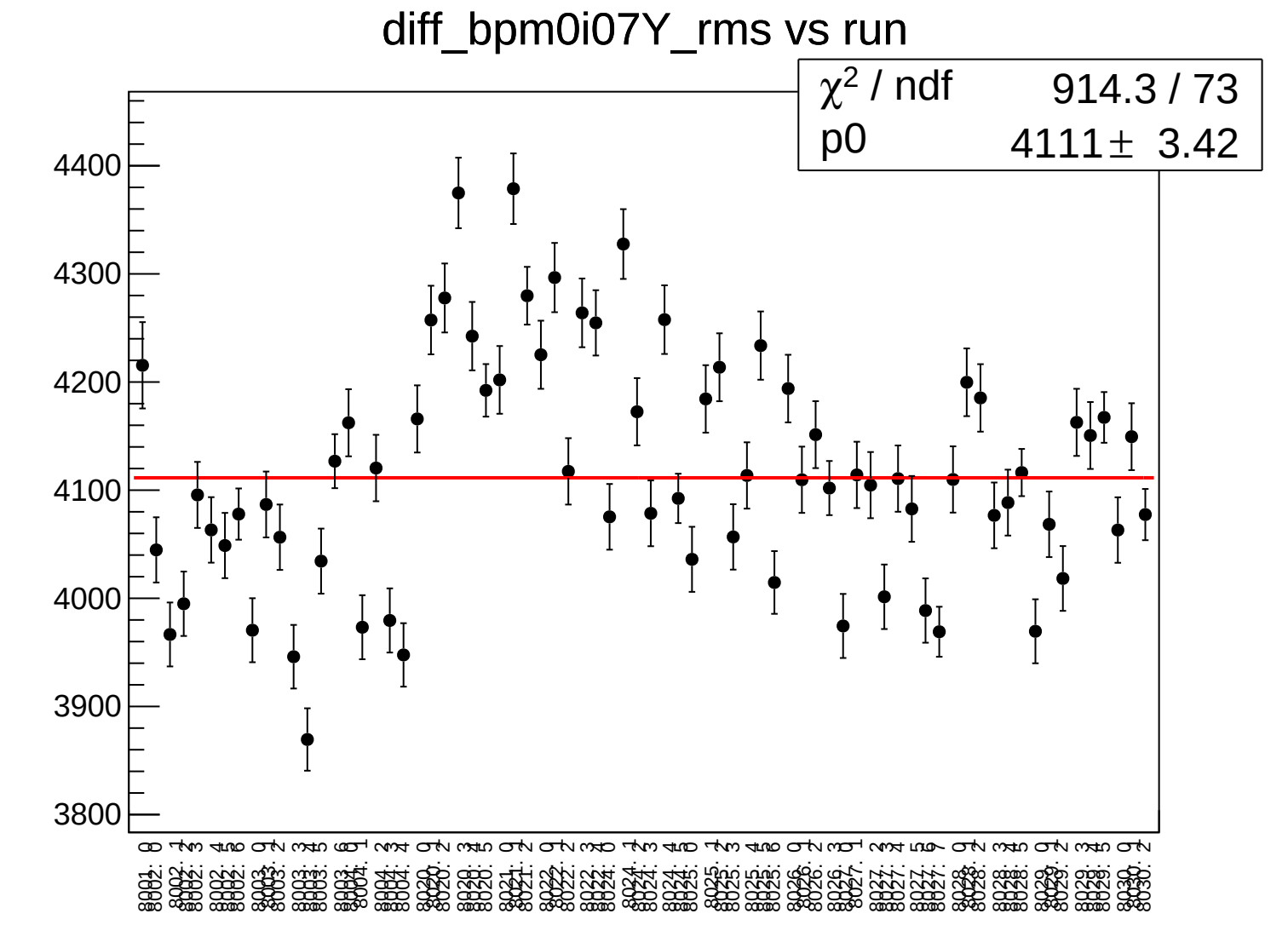

diff_bpm0i05Y_rms vs run
χ^2 / ndf 7481 / 73
p0 1445 ± 1.205
2100
2000
1900
1800
1700
1600
1500
1400
1300

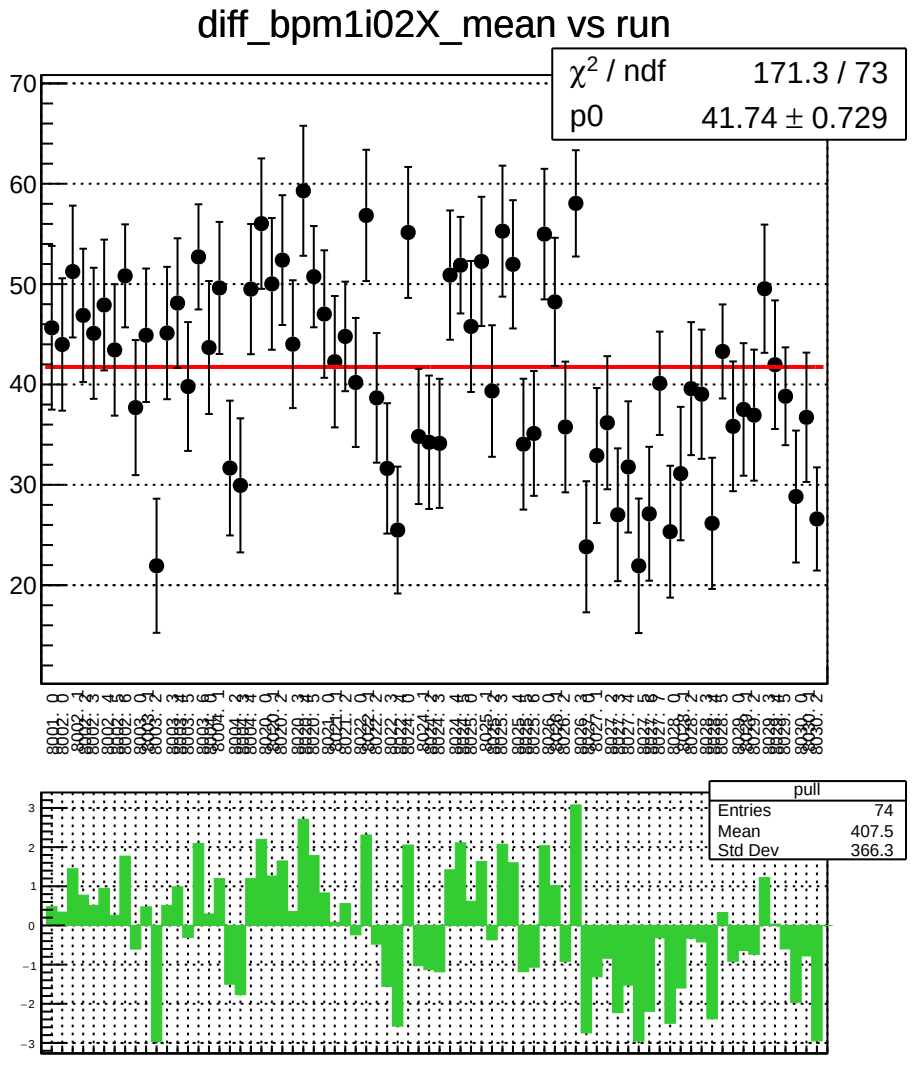

diff_bpm0i07X_mean vs run
χ^2 / ndf 77.46 / 73
p0 6.008 ± 8.237
pull
Entries 74
Mean −30.41
Std Dev 61.67

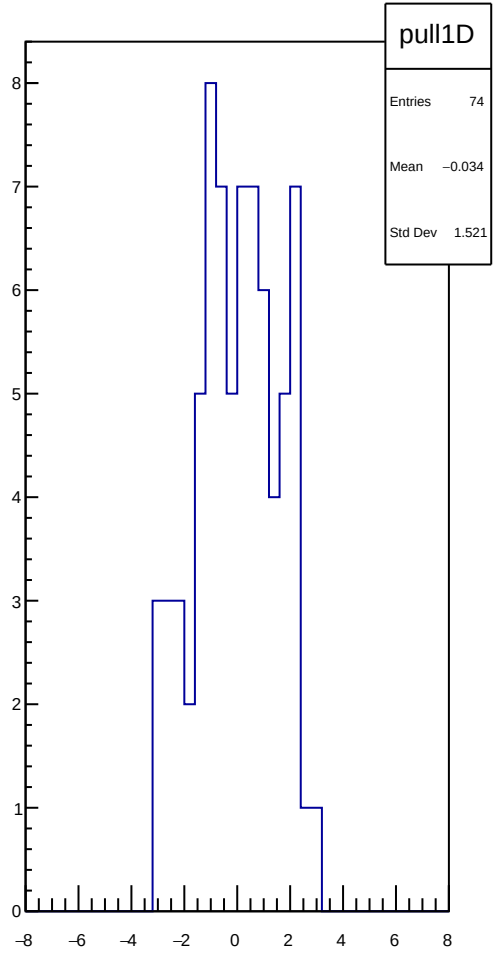

pull1D
Entries 74
Mean −0.01791
Std Dev 1.023

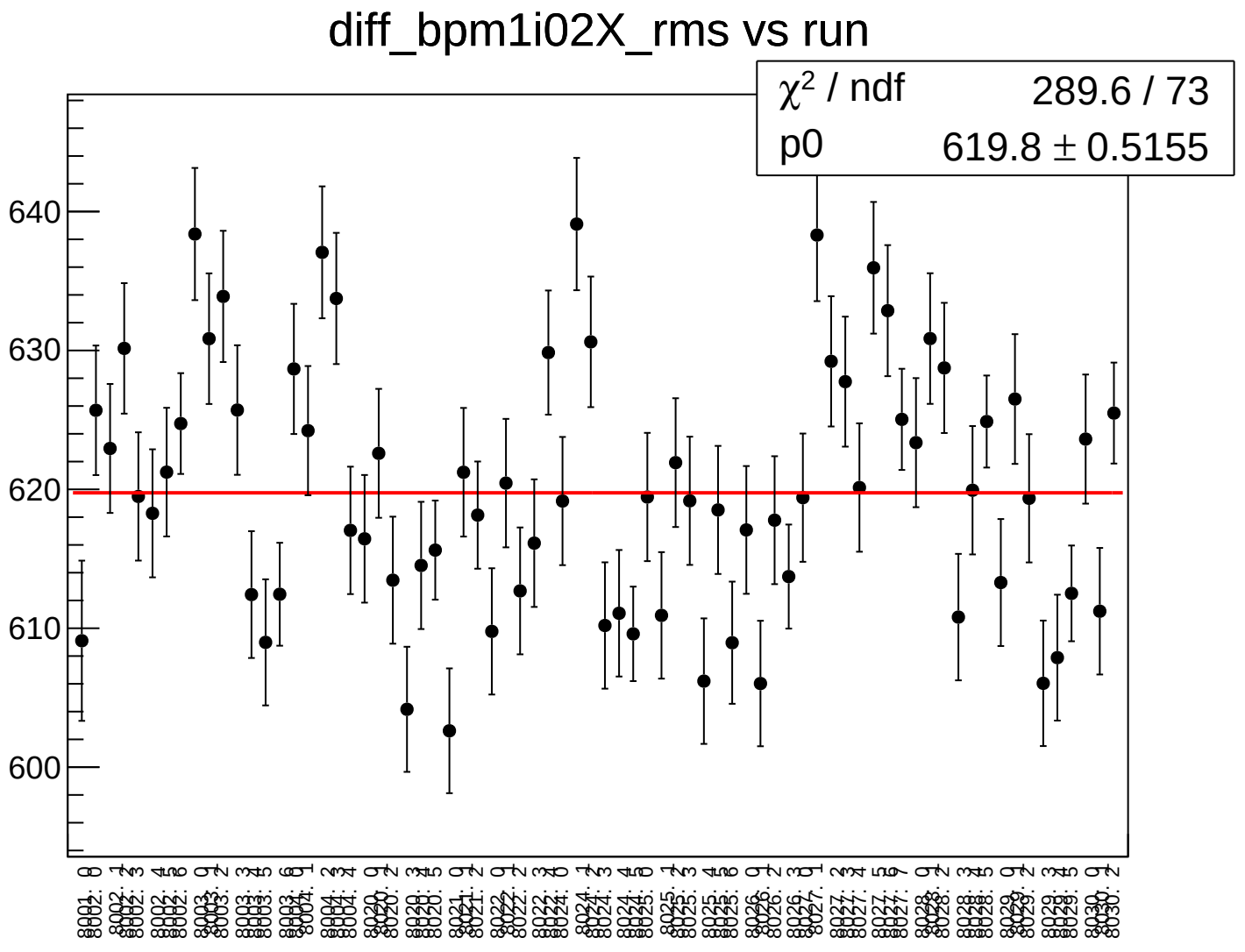

diff_bpm0i07X_rms vs run
χ² / ndf 2999 / 73
p0 6997 ± 5.825
8000
7800
7600
7400
7200
7000
6800
6600
6400
6200

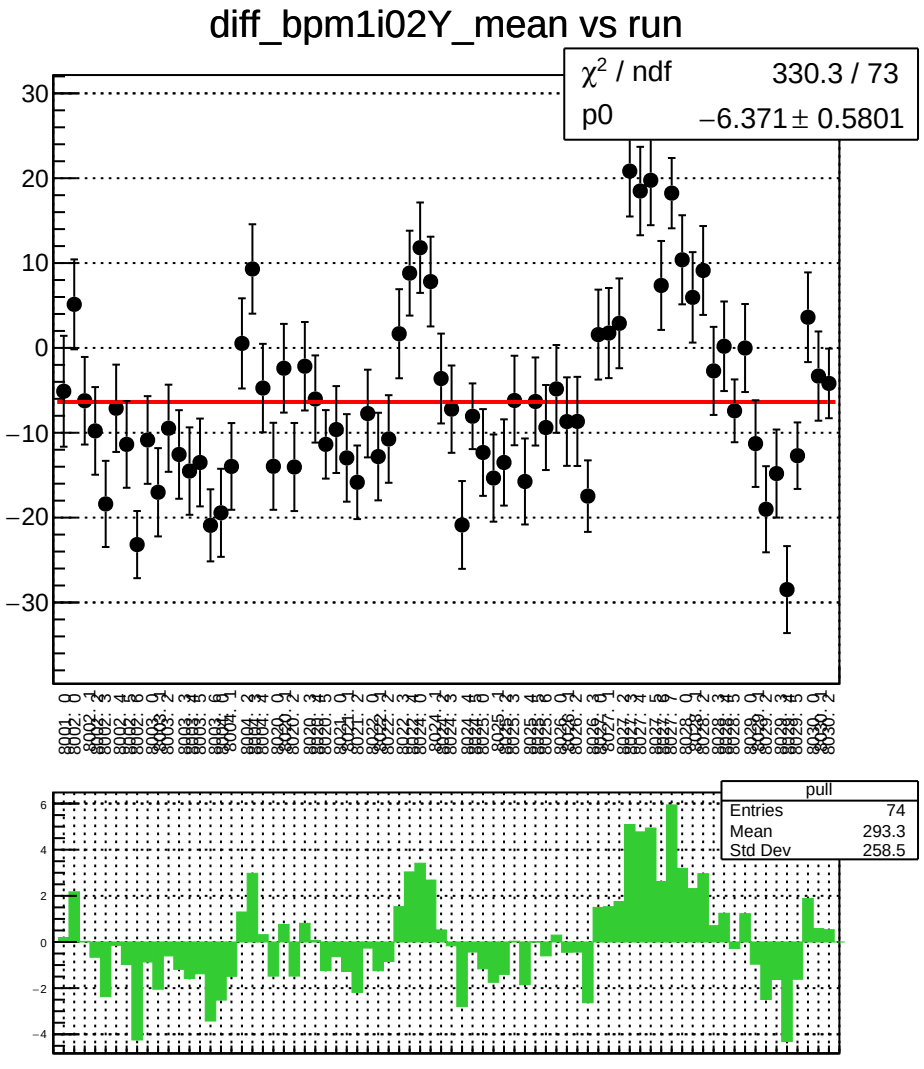

diff_bpm0i07Y_mean vs run
χ² / ndf 78.61 / 73
p0 0.07819 ± 4.837
150
100
50
0
−50
−100
−150
pull
Entries 74
Mean −326.1
Std Dev 437.7
2
1
0
−1
−2
pull1D
Entries 74
Mean 0.0009891
Std Dev 1.031
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

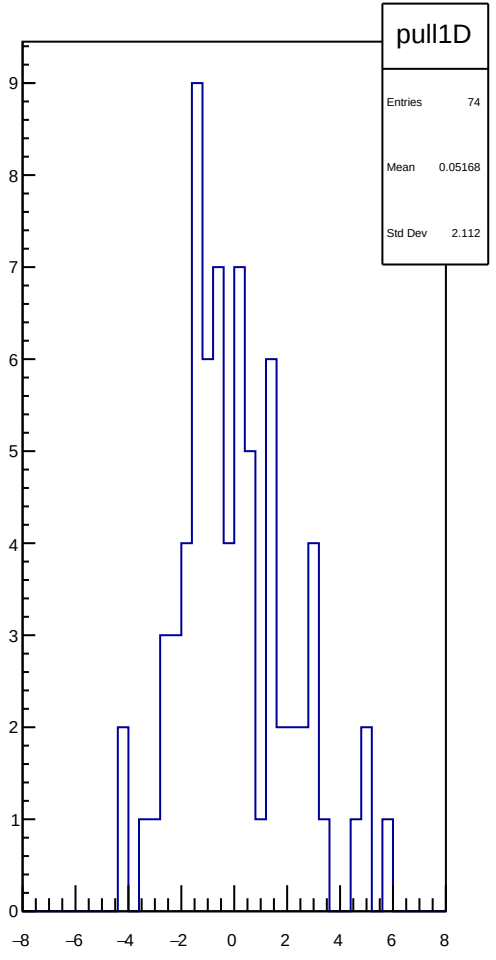

diff_bpm0i07Y_rms vs run
χ² / ndf 914.3 / 73
p0 4111 ± 3.42
4400
4300
4200
4100
4000
3900
3800

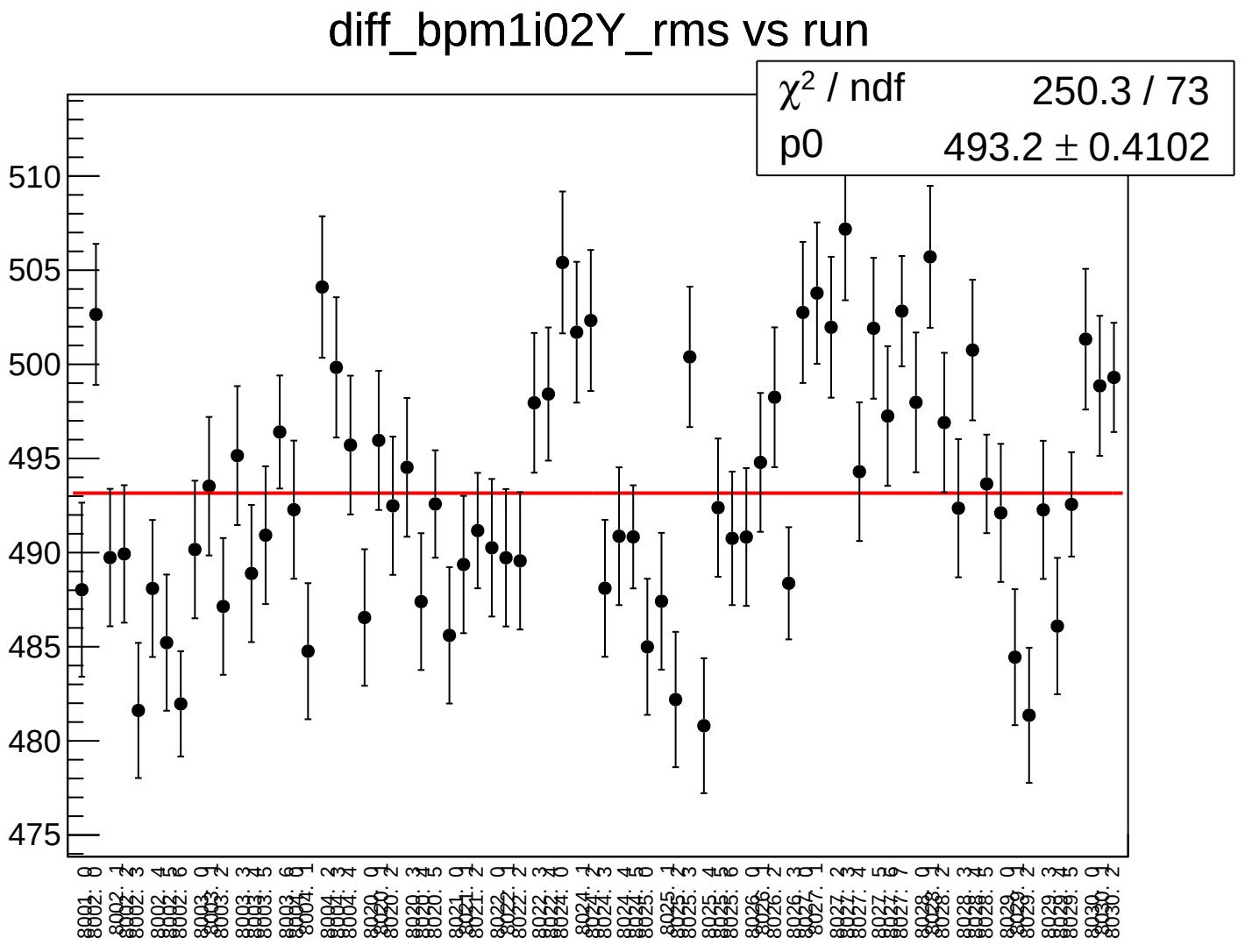

diff_bpm1i02X_mean vs run
χ^2 / ndf 171.3 / 73
p0 41.74 ± 0.729
pull
Entries 74
Mean 407.5
Std Dev 366.3

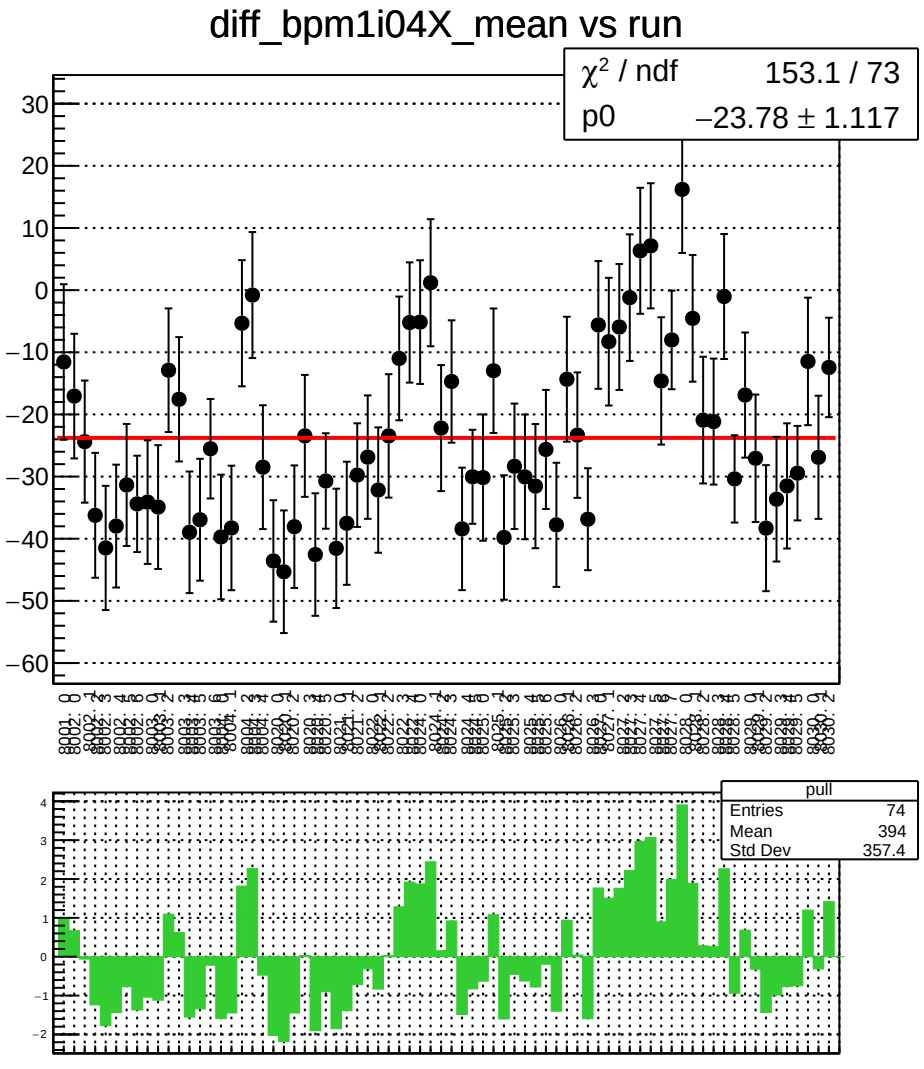

pull1D
Entries 74
Mean −0.034
Std Dev 1.521

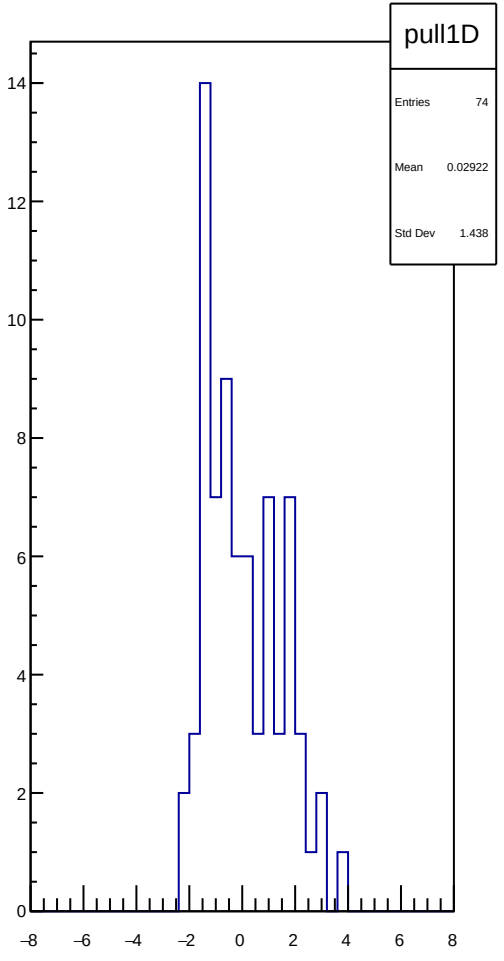

diff_bpm1i02X_rms vs run
χ² / ndf 289.6 / 73
p0 619.8 ± 0.5155
640
630
620
610
600

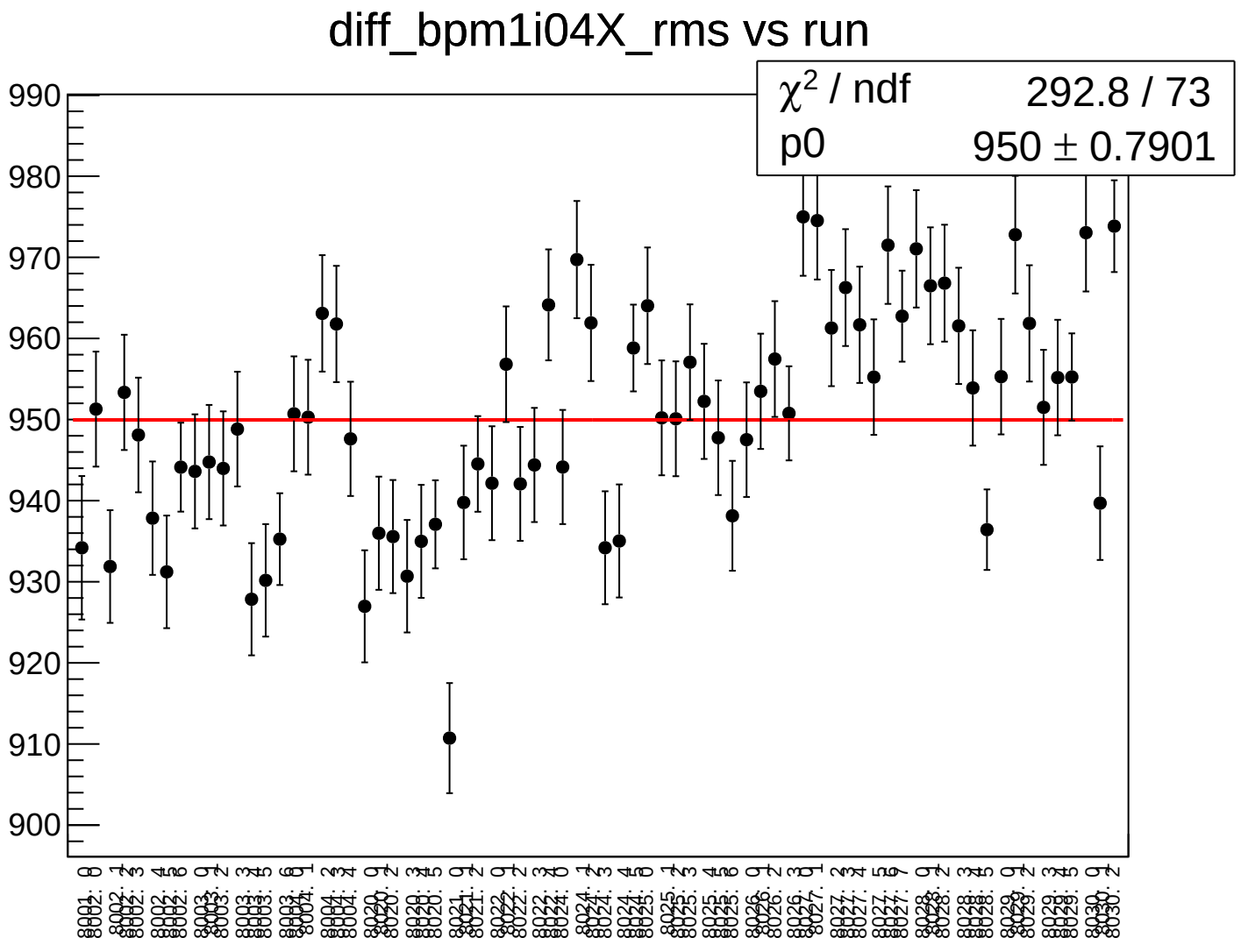

diff_bpm1i02Y_mean vs run
χ² / ndf 330.3 / 73
p0 −6.371 ± 0.5801
pull
Entries 74
Mean 293.3
Std Dev 258.5

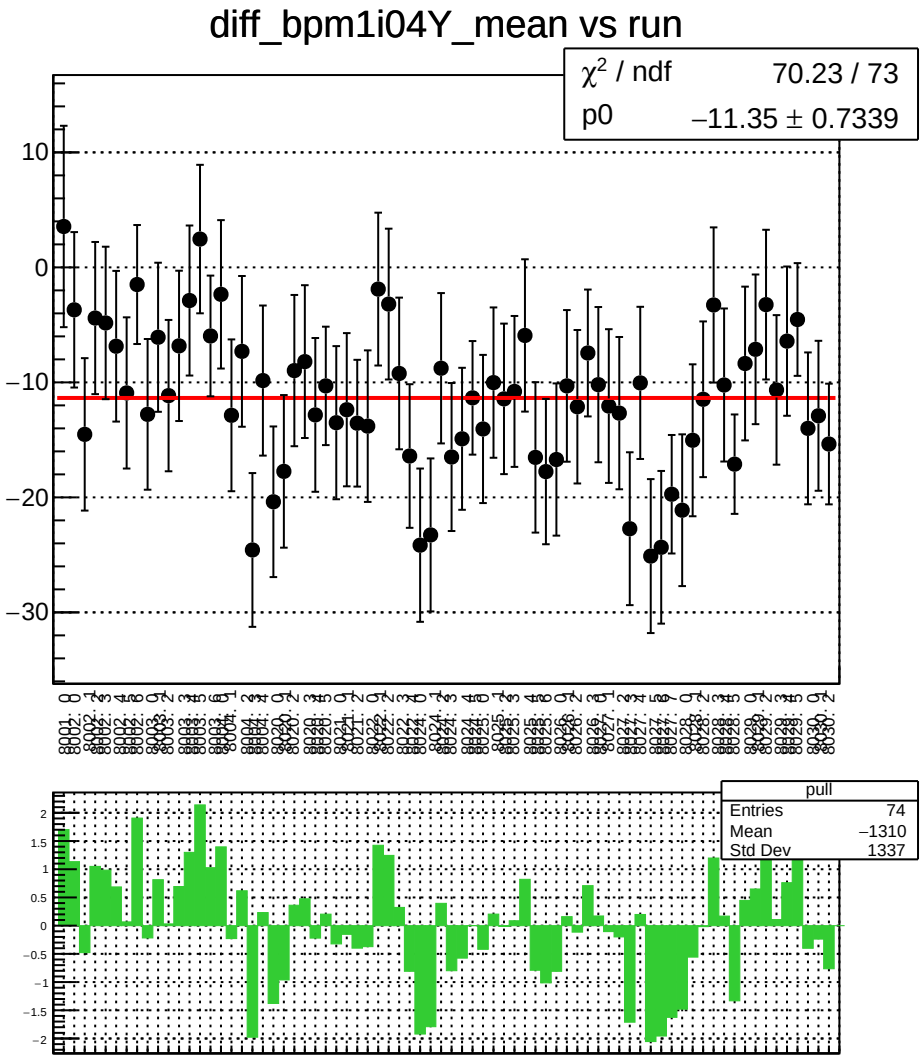

pull1D
Entries 74
Mean 0.05168
Std Dev 2.112

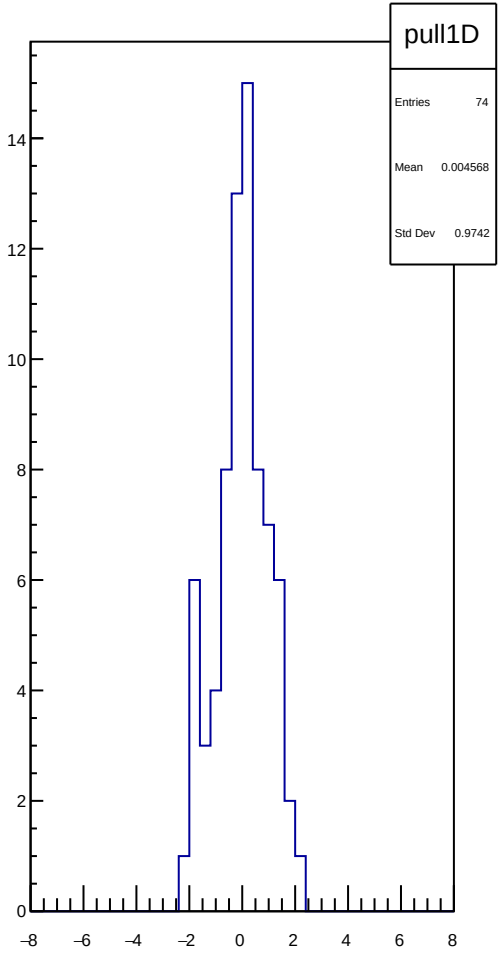

diff_bpm1i02Y_rms vs run
χ² / ndf 250.3 / 73
p0 493.2 ± 0.4102
510
505
500
495
490
485
480
475

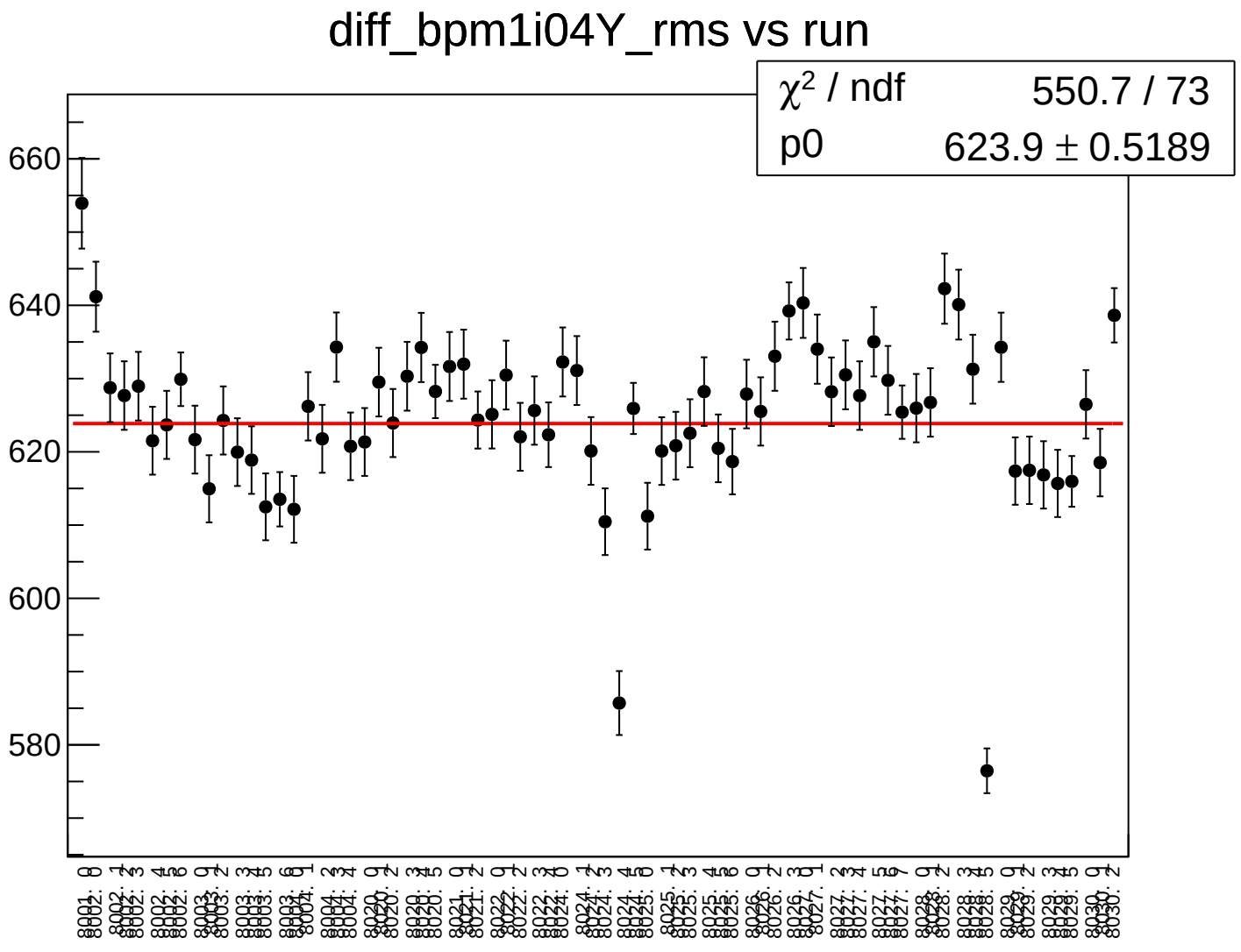

diff_bpm1i04X_mean vs run
χ² / ndf 153.1 / 73
p0 −23.78 ± 1.117
pull
Entries 74
Mean 394
Std Dev 357.4

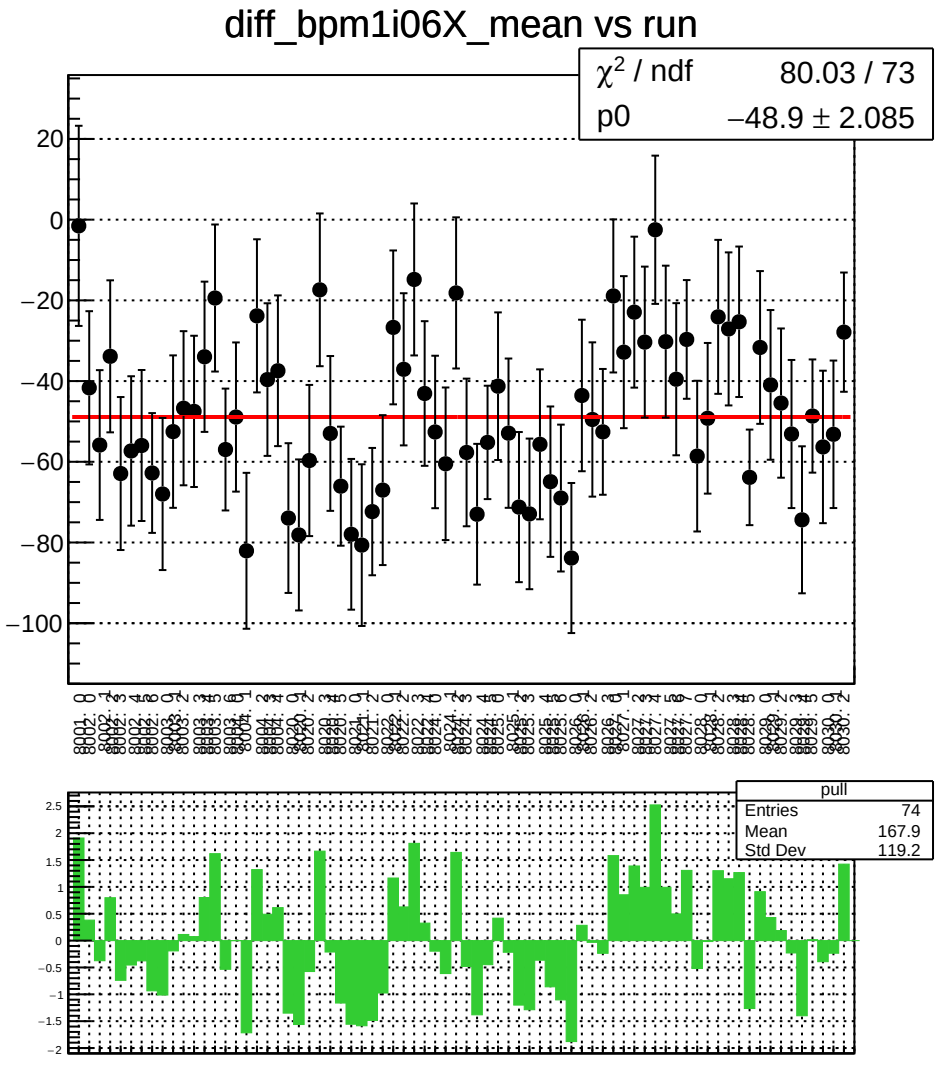

pull1D
Entries 74
Mean 0.02922
Std Dev 1.438

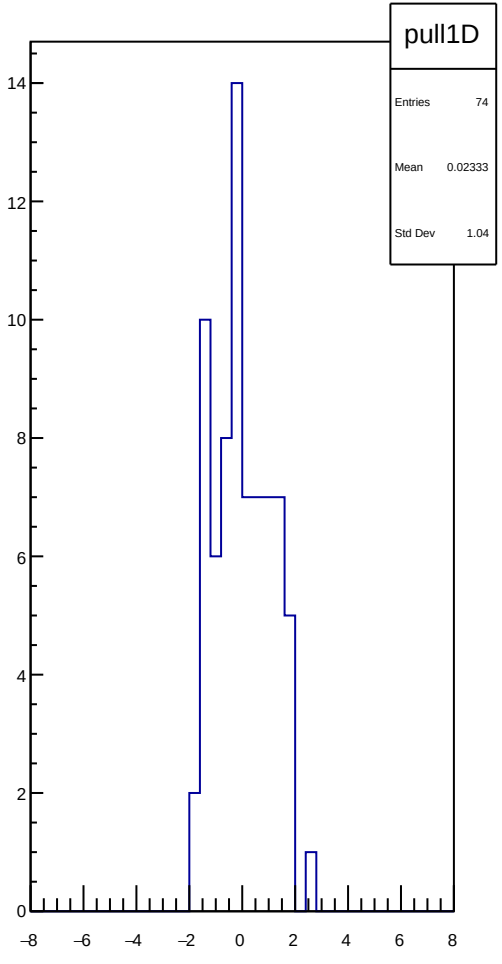

diff_bpm1i04X_rms vs run
χ² / ndf 292.8 / 73
p0 950 ± 0.7901
990
980
970
960
950
940
930
920
910
900

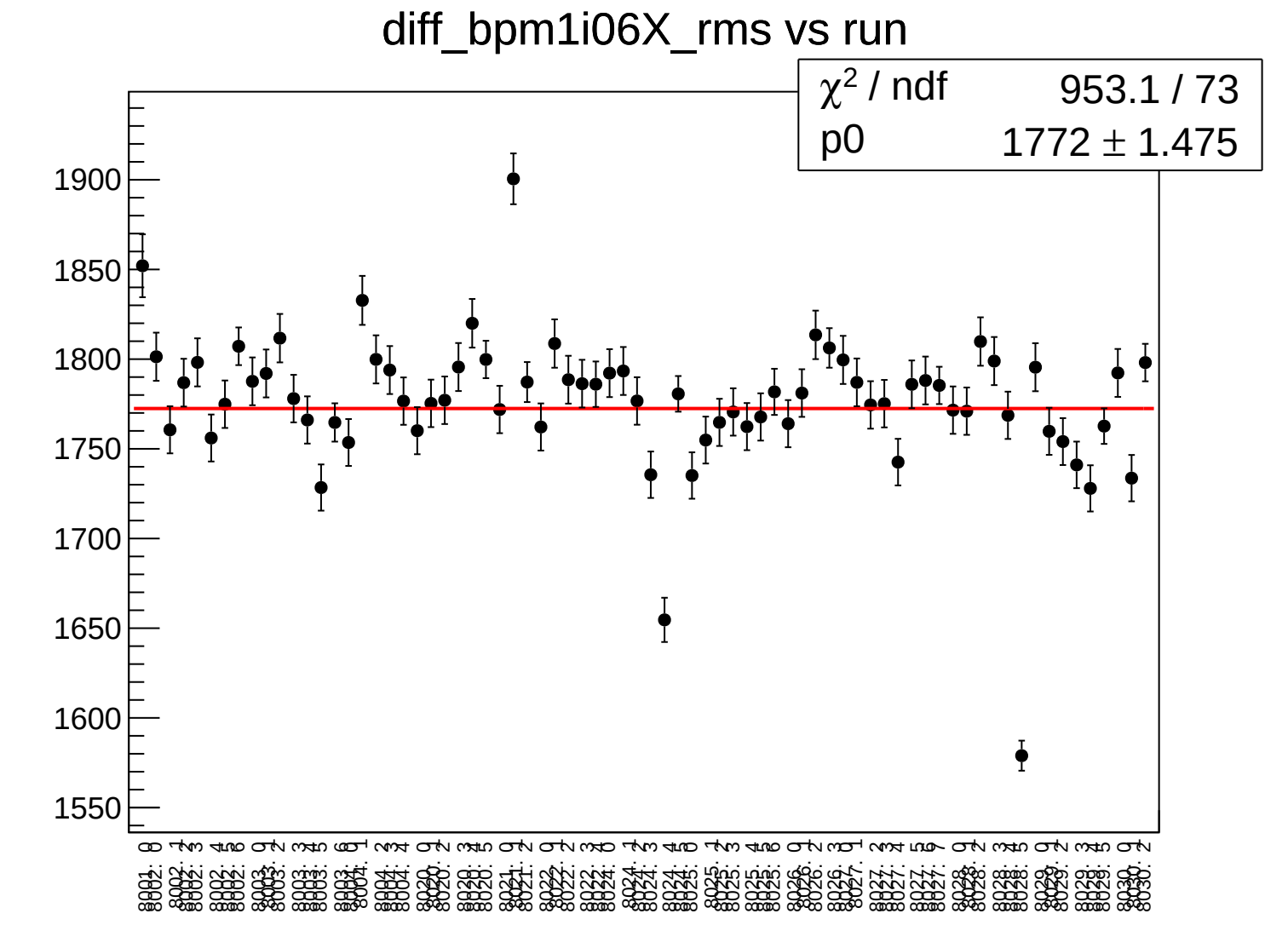

diff_bpm1i04Y_mean vs run
χ² / ndf 70.23 / 73
p0 −11.35 ± 0.7339
pull
Entries 74
Mean −1310
Std Dev 1337

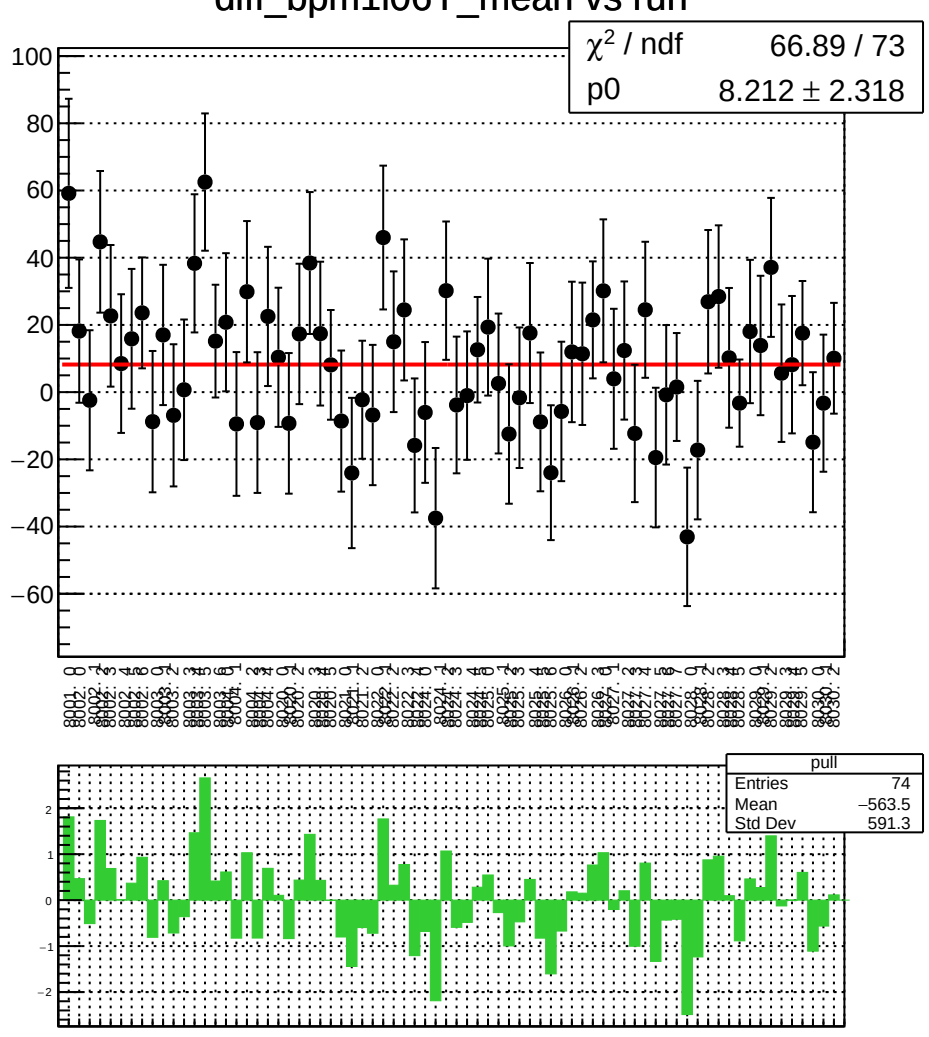

pull1D
Entries 74
Mean 0.004568
Std Dev 0.9742

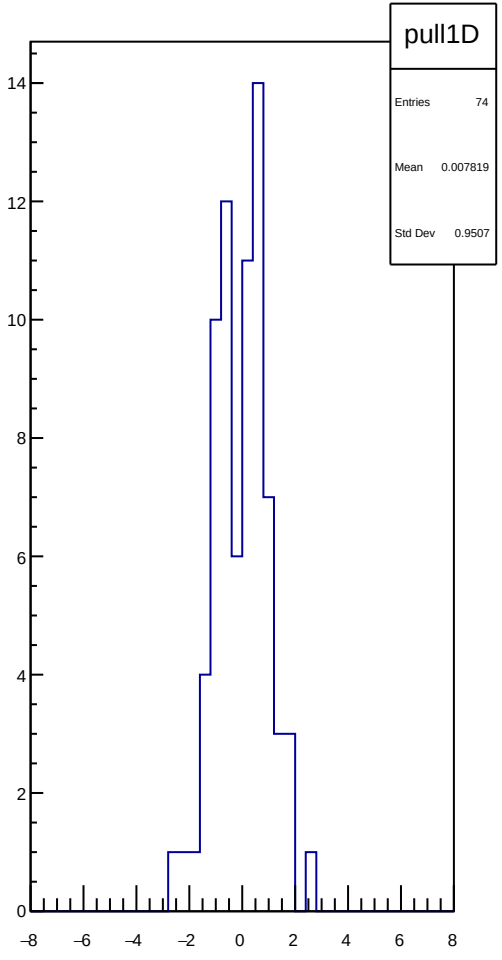

diff_bpm1i04Y_rms vs run
χ² / ndf 550.7 / 73
p0 623.9 ± 0.5189
660
640
620
600
580

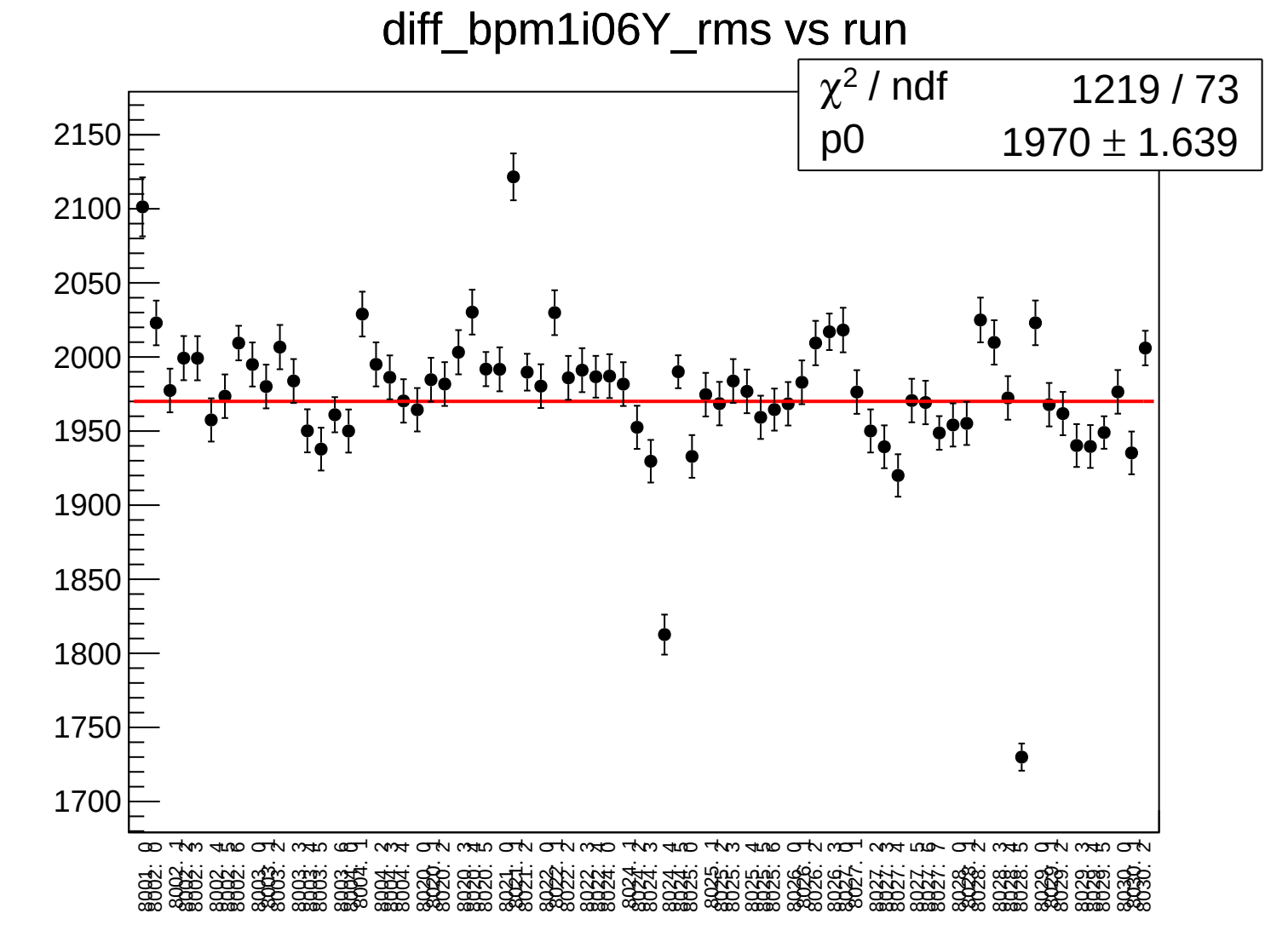

diff_bpm1i06X_mean vs run
χ² / ndf 80.03 / 73
p0 −48.9 ± 2.085
pull
Entries 74
Mean 167.9
Std Dev 119.2

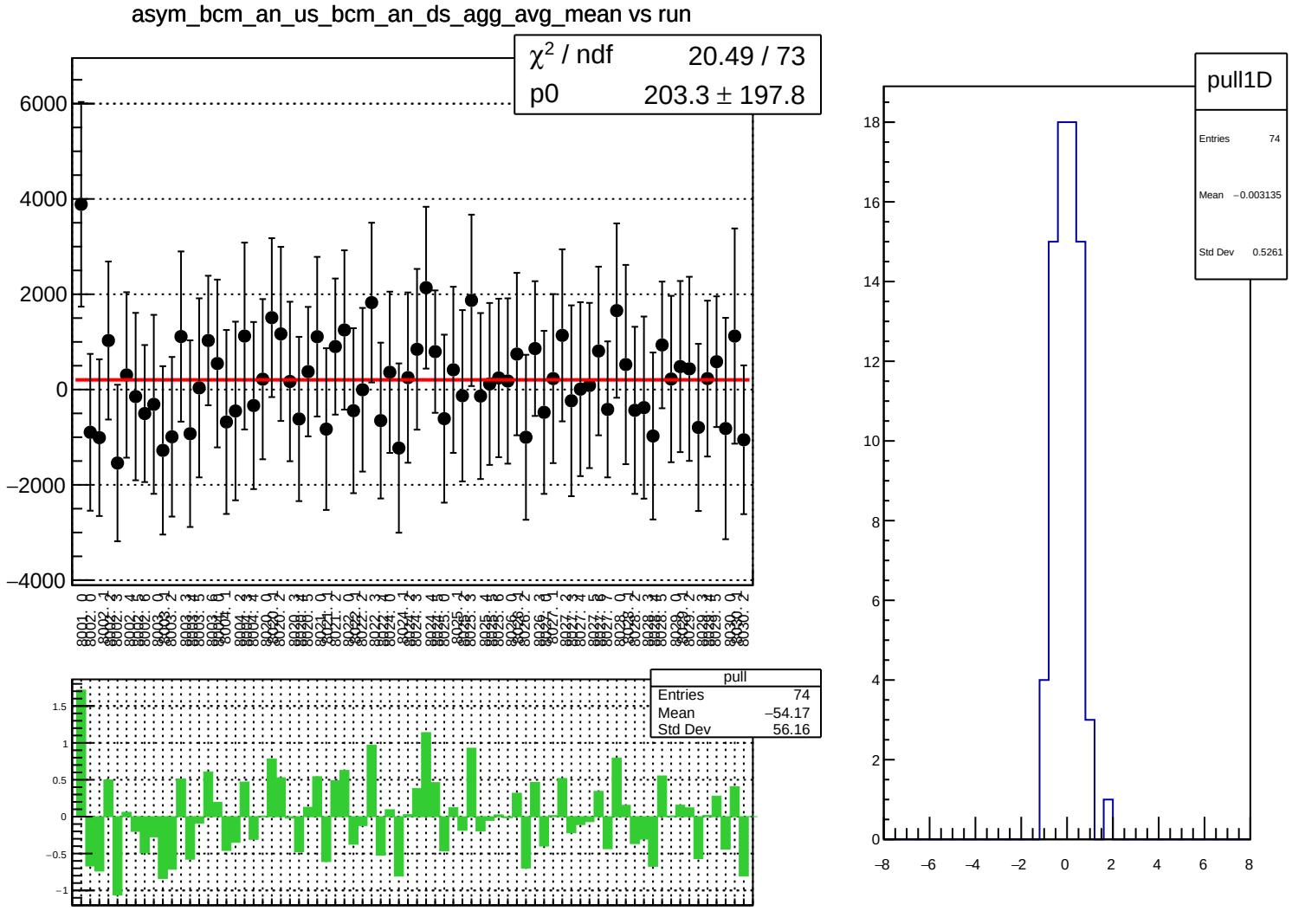

pull1D
Entries 74
Mean 0.02333
Std Dev 1.04

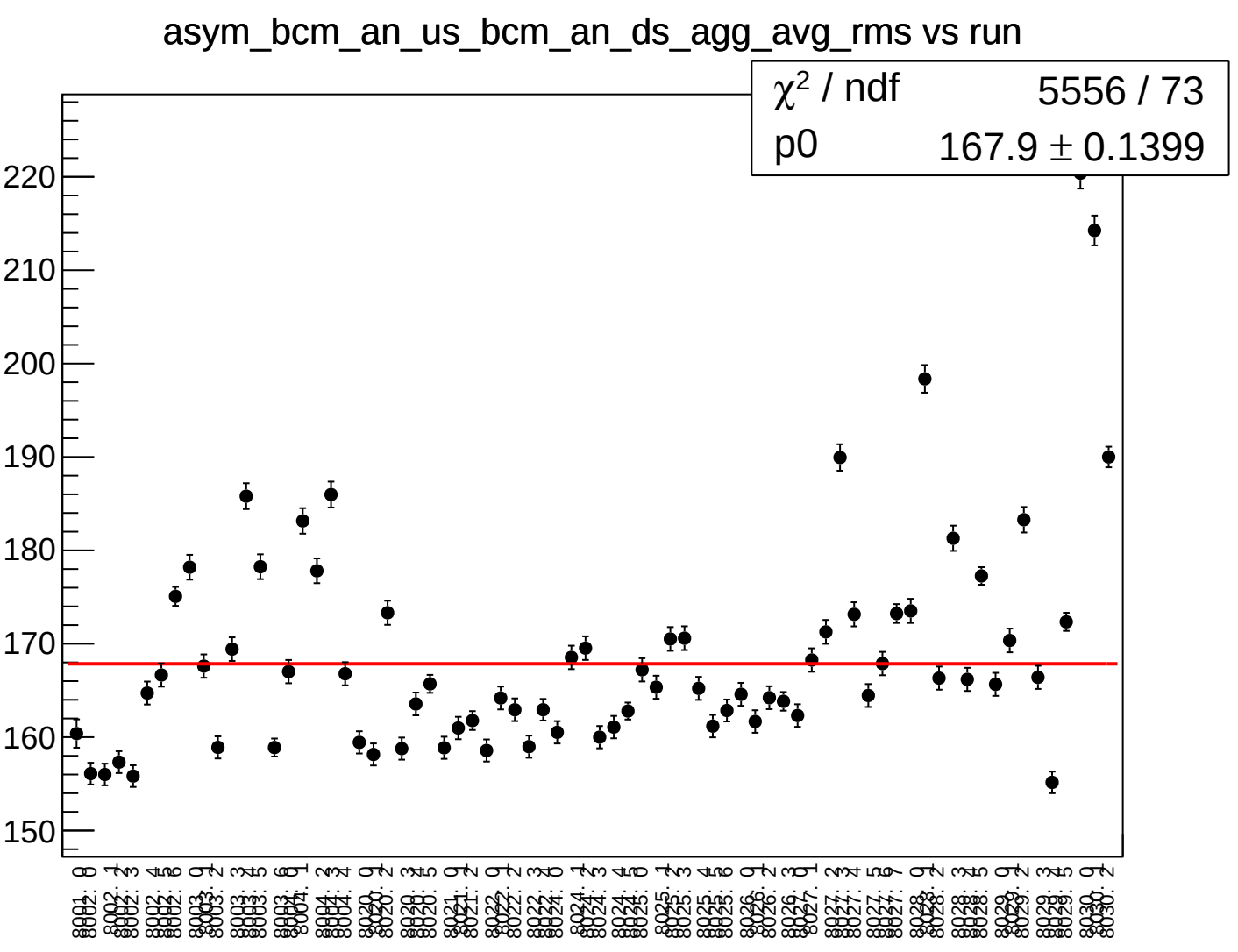

diff_bpm1i06X_rms vs run
χ² / ndf 953.1 / 73
p0 1772 ± 1.475
1900
1850
1800
1750
1700
1650
1600
1550

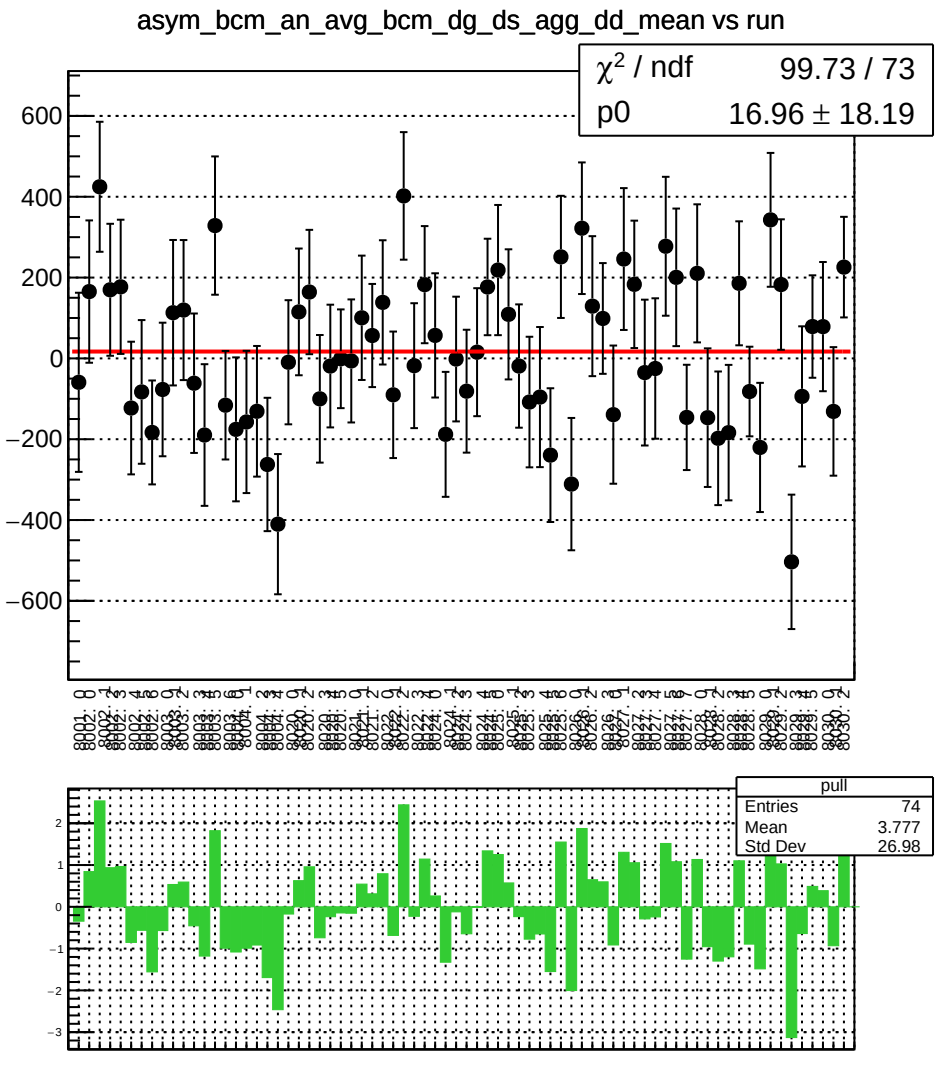

diff_bpm1i06Y_mean vs run
χ² / ndf 66.89 / 73
p0 8.212 ± 2.318
pull
Entries 74
Mean −563.5
Std Dev 591.3

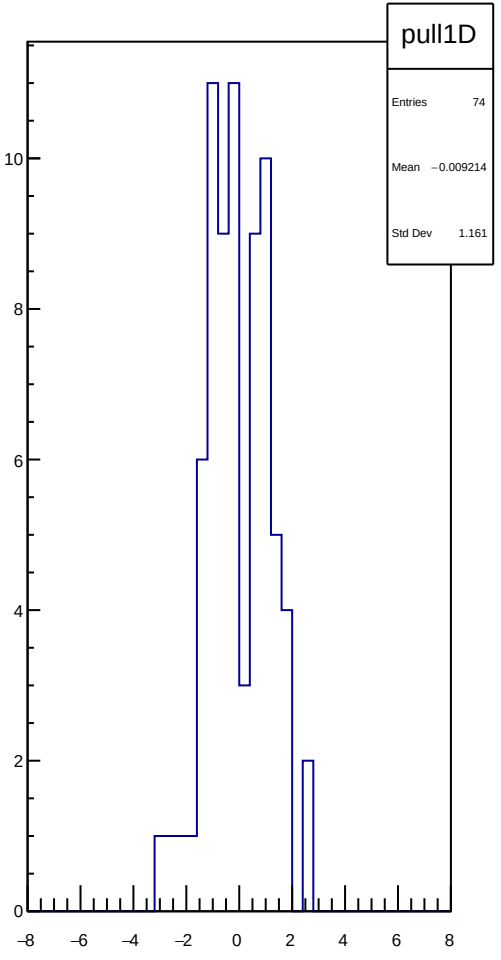

pull1D
Entries 74
Mean 0.007819
Std Dev 0.9507

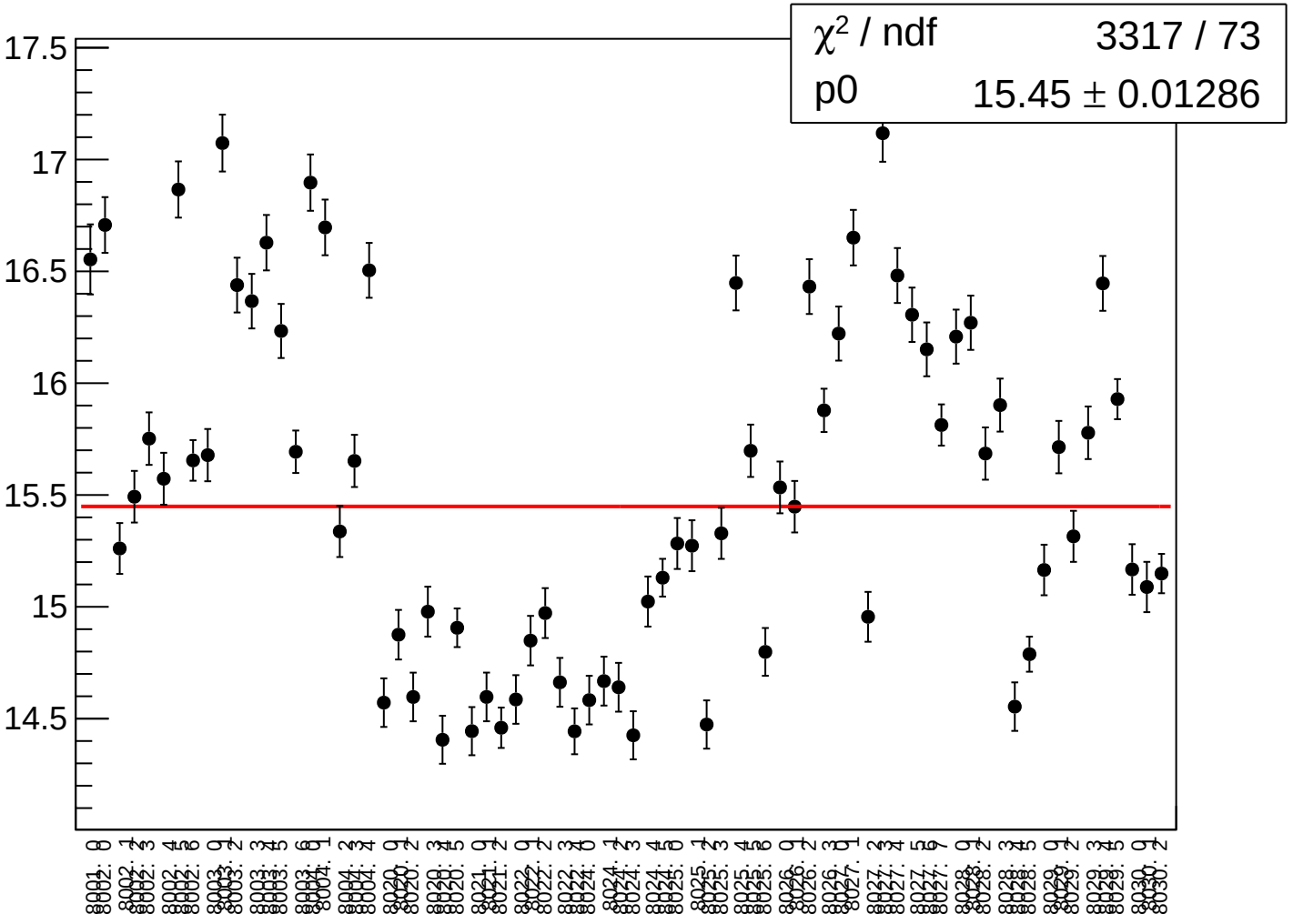

diff_bpm1i06Y_rms vs run
χ² / ndf 1219 / 73
p0 1970 ± 1.639
2150
2100
2050
2000
1950
1900
1850
1800
1750
1700

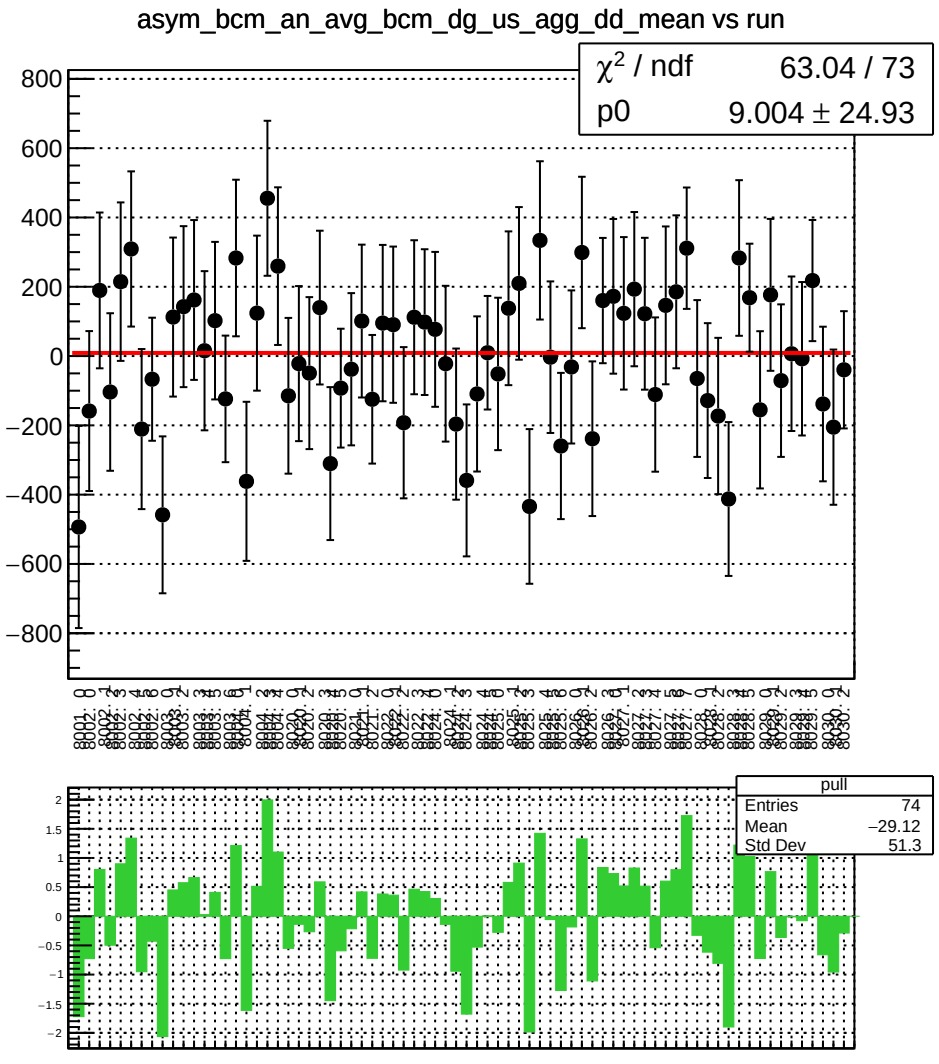

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 20.49 / 73
p0 203.3 ± 197.8
pull
Entries 74
Mean −54.17
Std Dev 56.16
pull1D
Entries 74
Mean −0.003135
Std Dev 0.5261

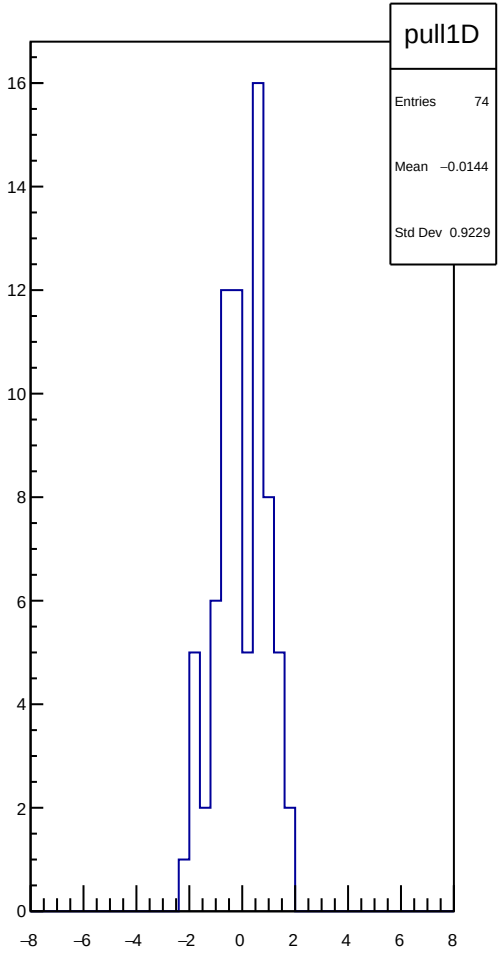

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5556 / 73
p0 167.9 ± 0.1399
220
210
200
190
180
170
160
150

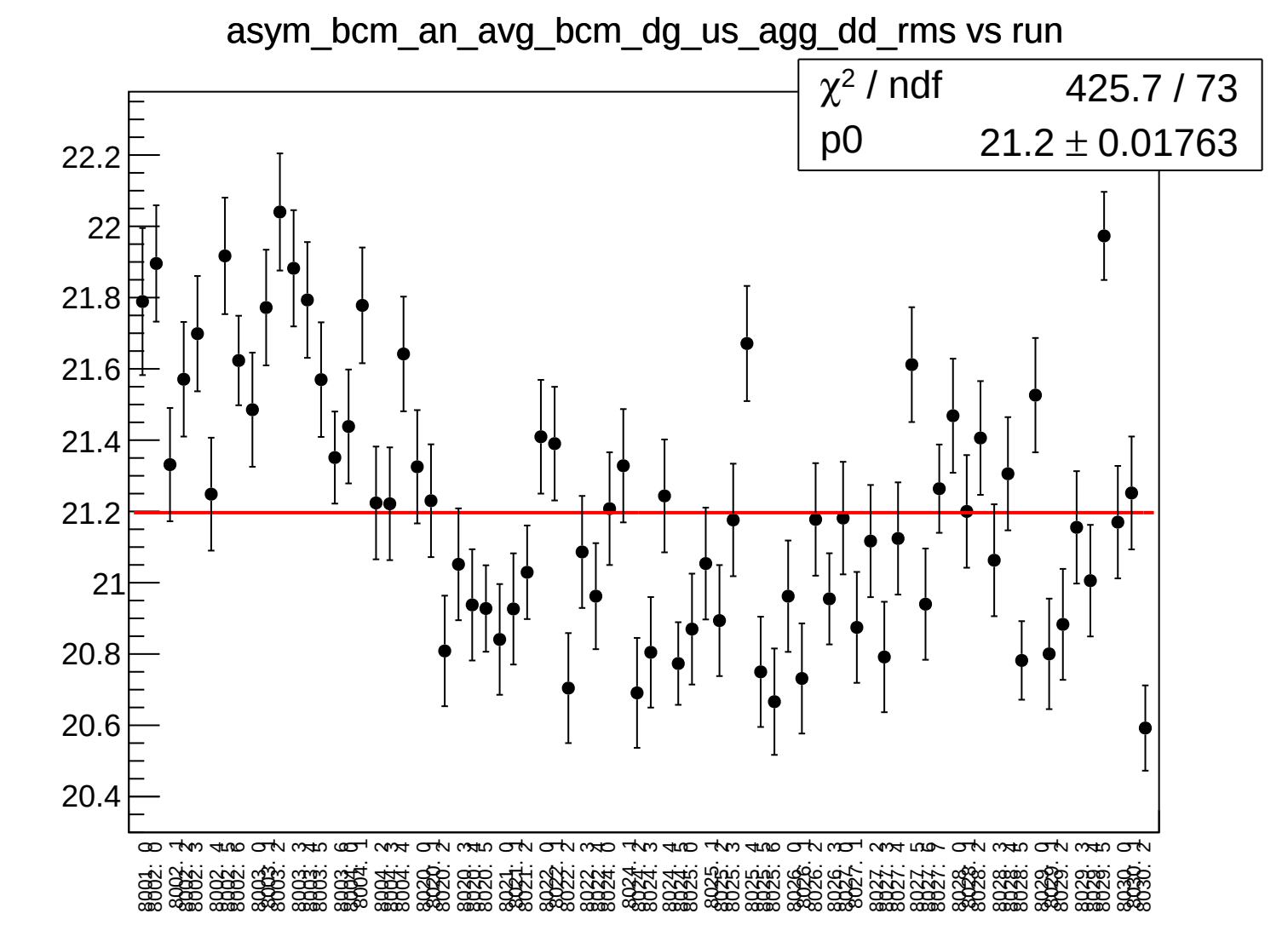

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 99.73 / 73
p0 16.96 ± 18.19
pull
Entries 74
Mean 3.777
Std Dev 26.98

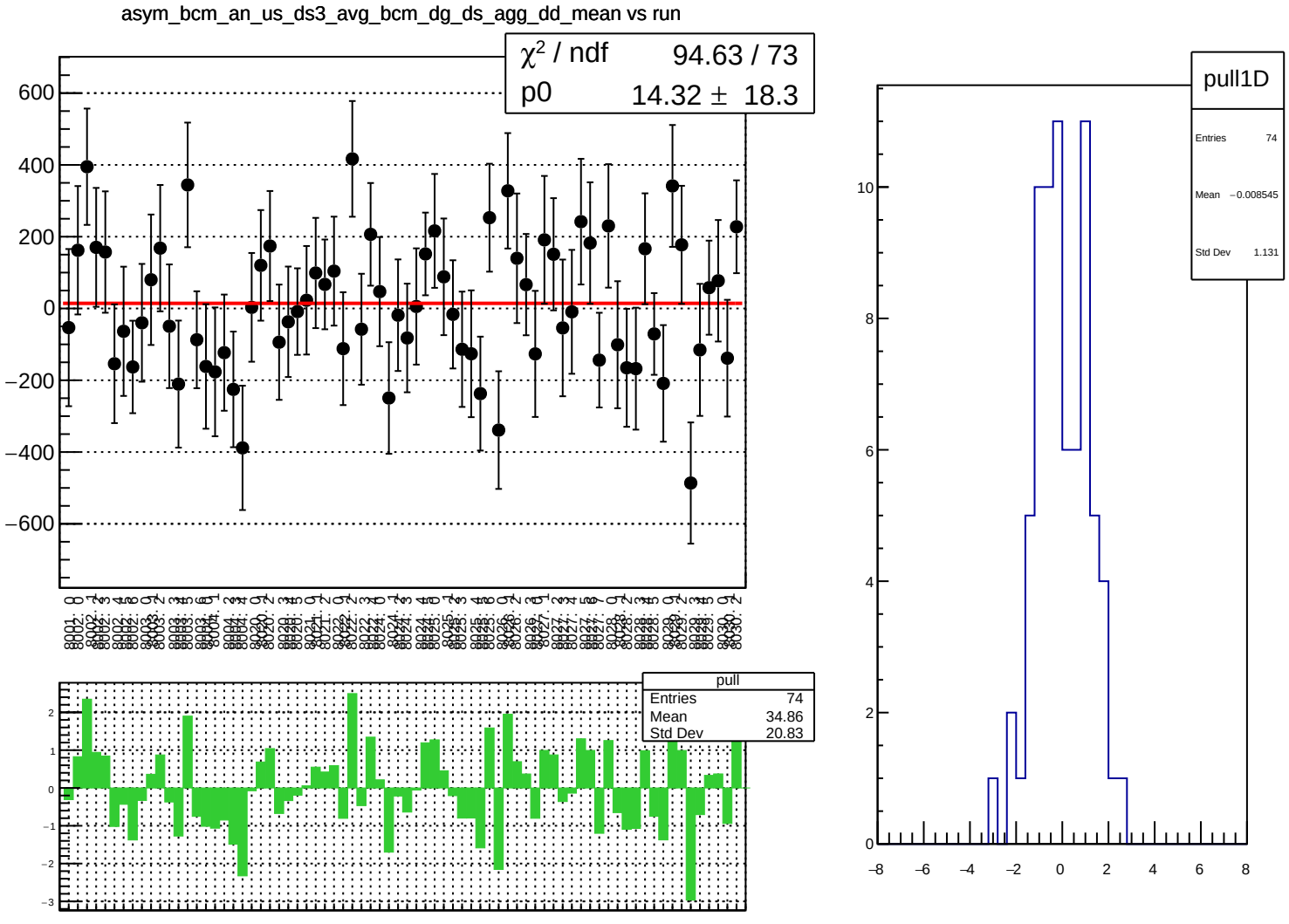

pull1D
Entries 74
Mean −0.009214
Std Dev 1.161

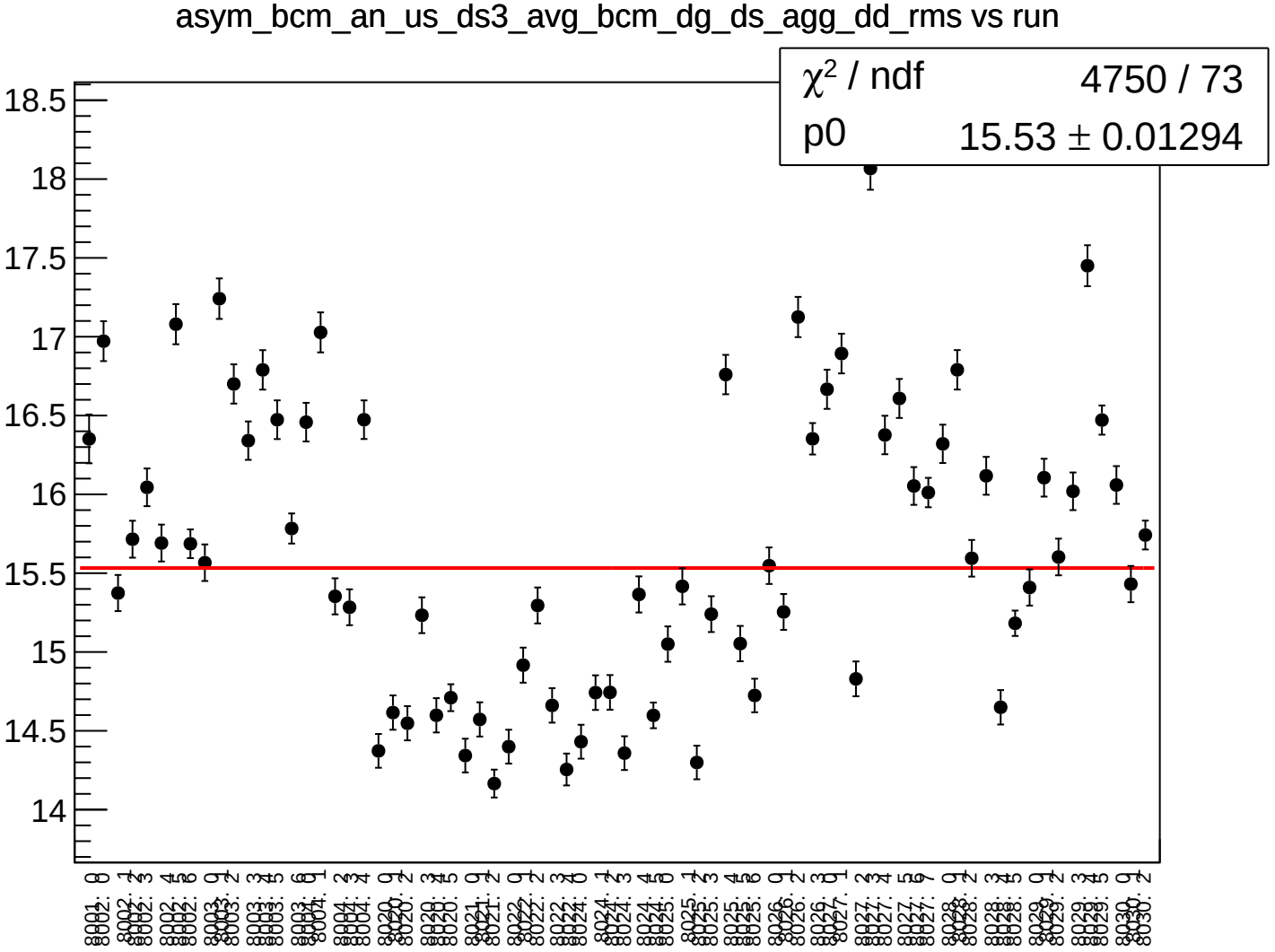

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 3317 / 73
p0 15.45 ± 0.01286
17.5
17
16.5
16
15.5
15
14.5

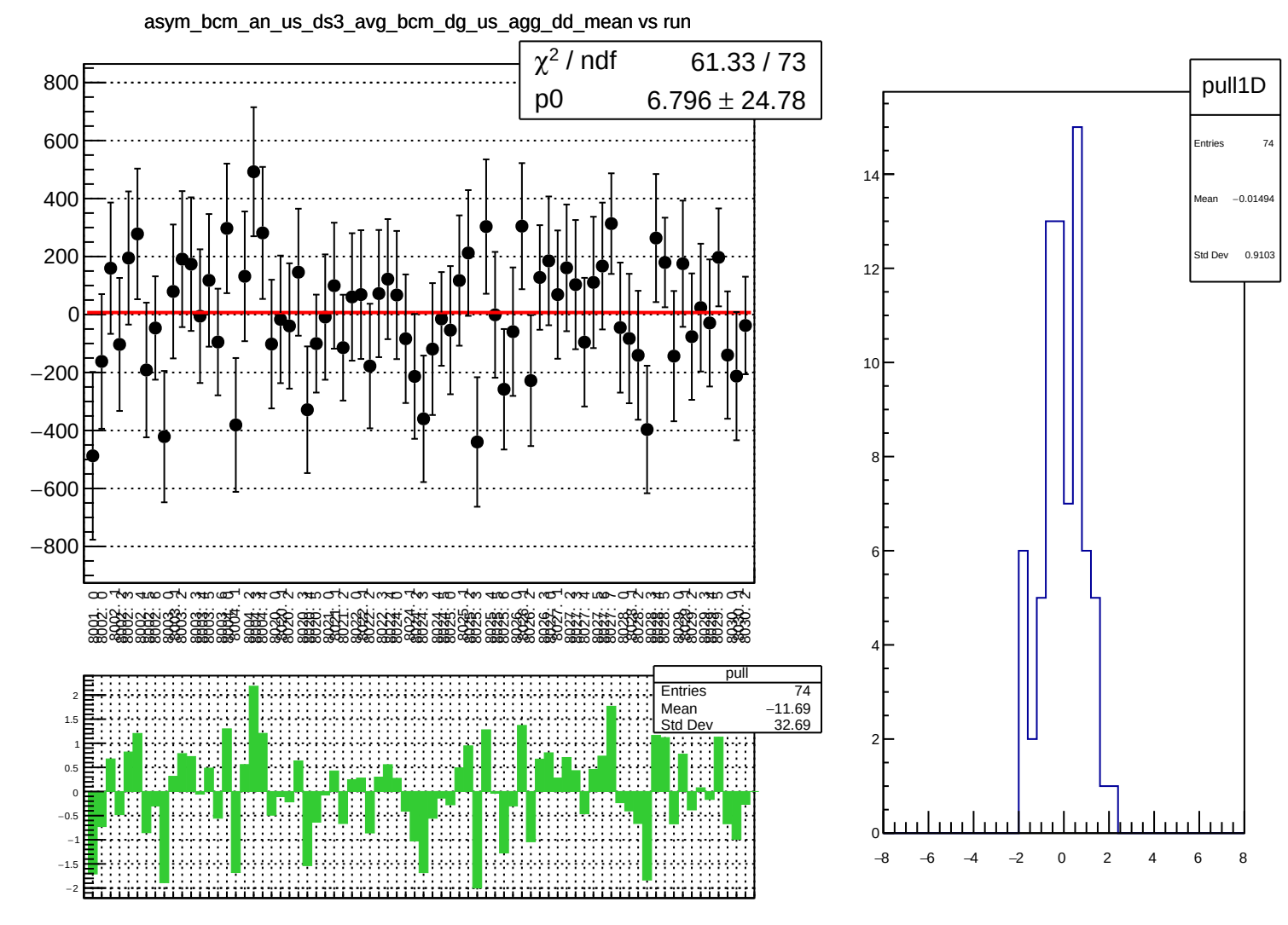

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 63.04 / 73
p0 9.004 ± 24.93
pull
Entries 74
Mean −29.12
Std Dev 51.3

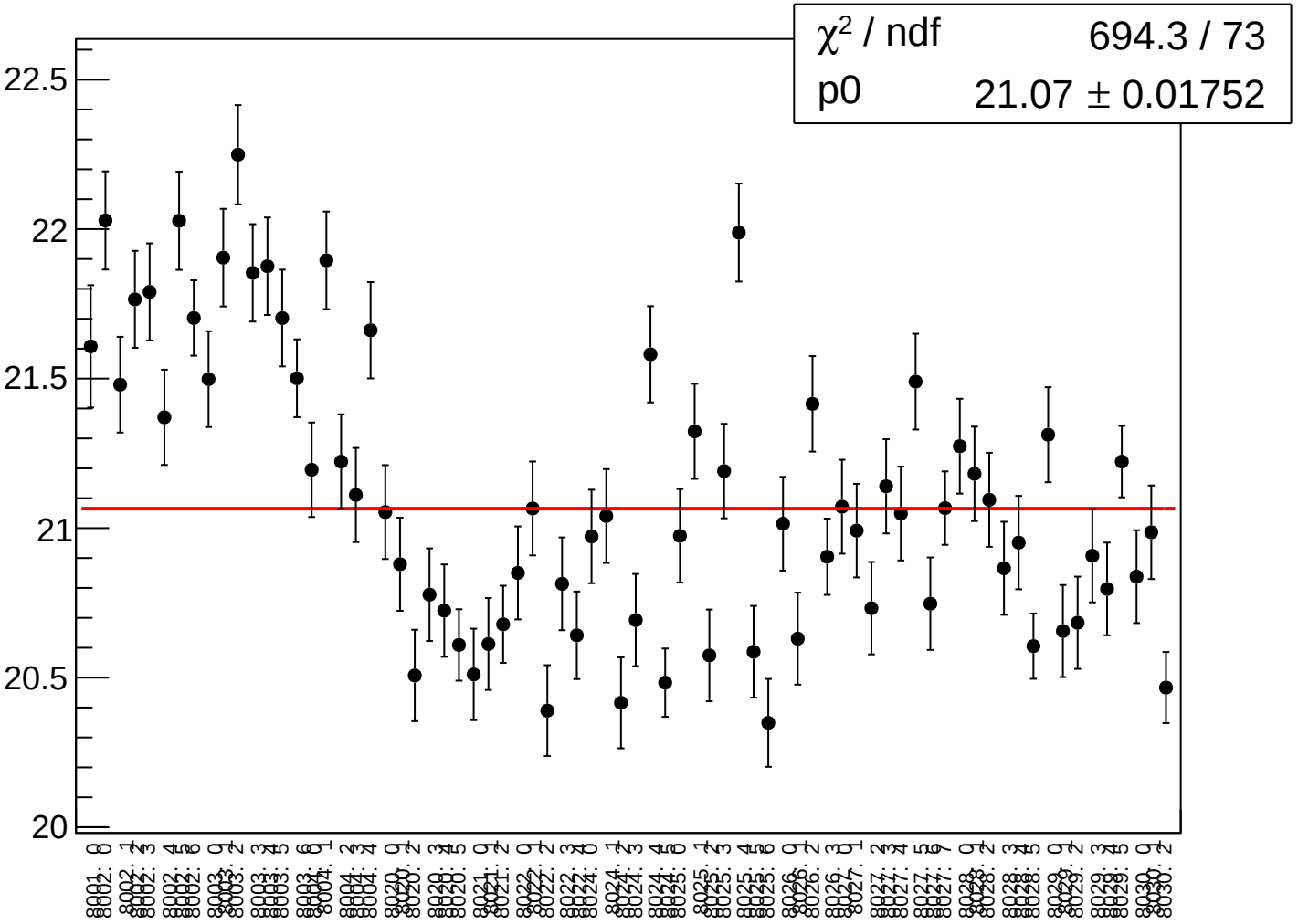

pull1D
Entries 74
Mean −0.0144
Std Dev 0.9229

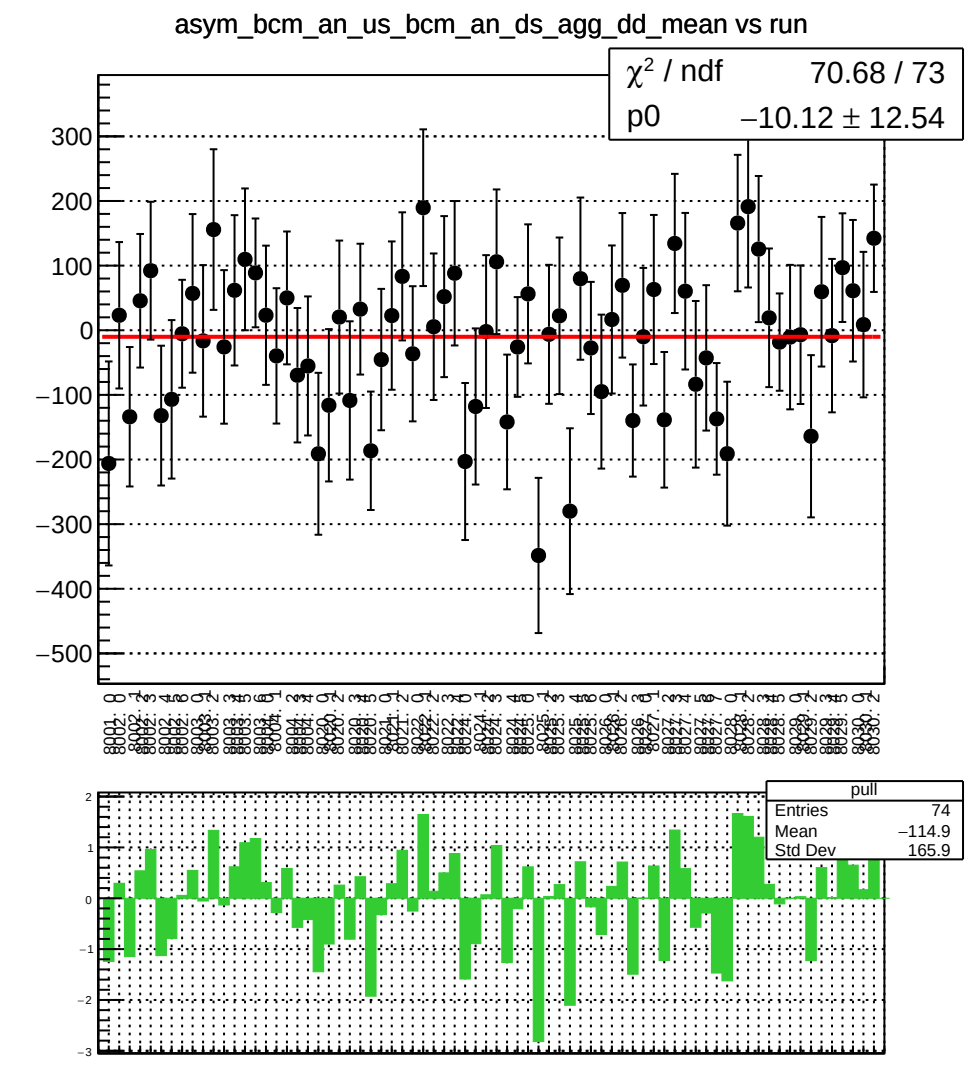

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 425.7 / 73
p0 21.2 ± 0.01763
22.2
22
21.8
21.6
21.4
21.2
21
20.8
20.6
20.4

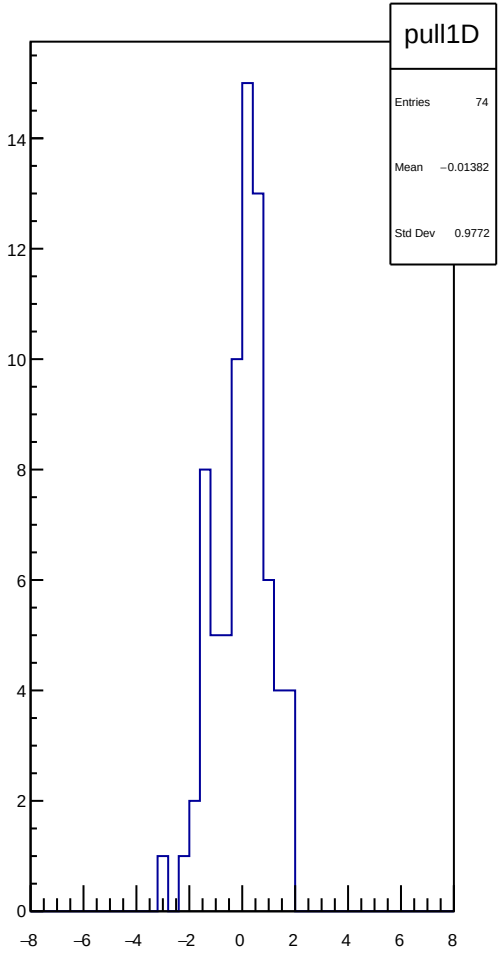

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 94.63 / 73
p0 14.32 ± 18.3
pull
Entries 74
Mean 34.86
Std Dev 20.83
pull1D
Entries 74
Mean −0.008545
Std Dev 1.131

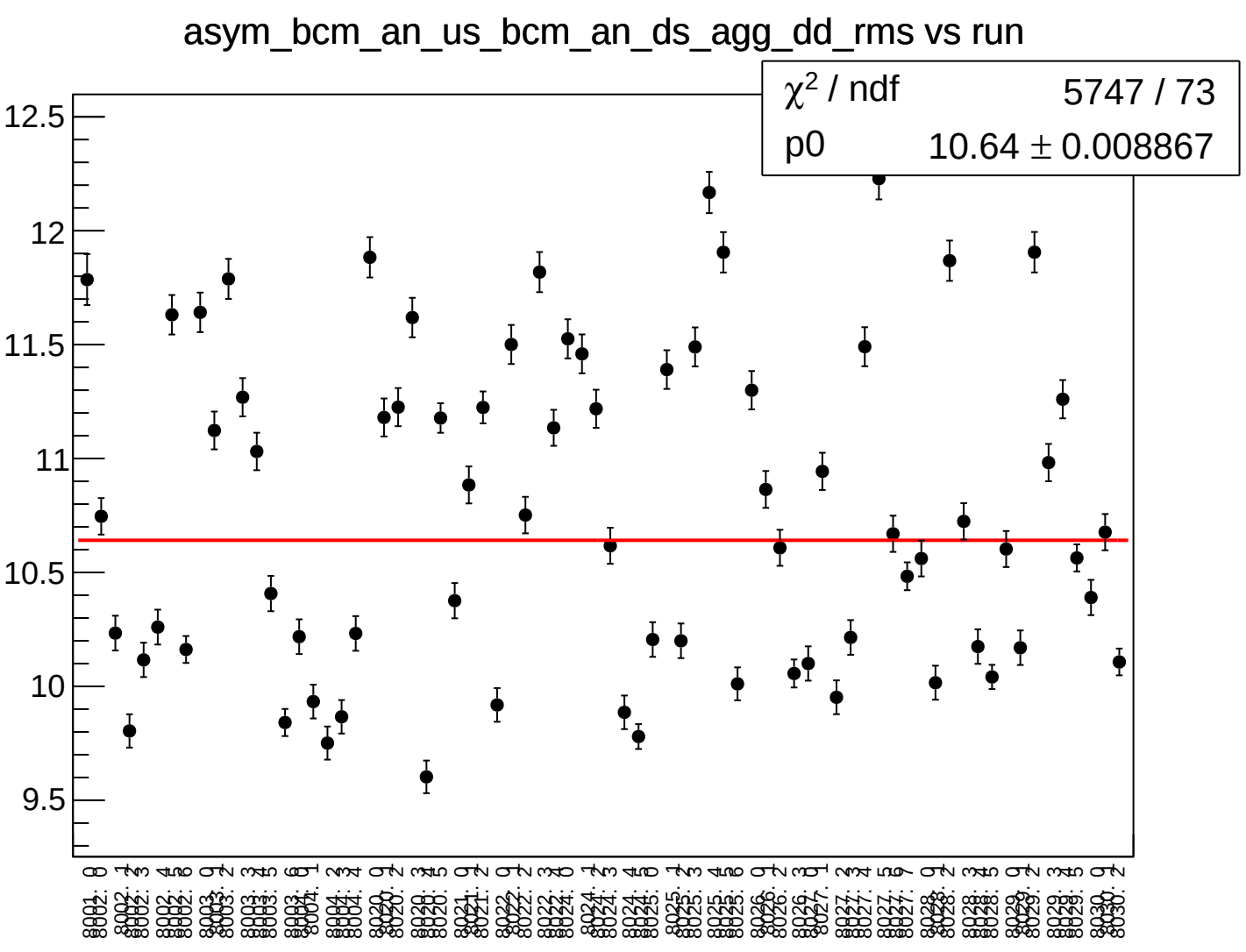

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4750 / 73
p0 15.53 ± 0.01294
18.5
18
17.5
17
16.5
16
15.5
15
14.5
14

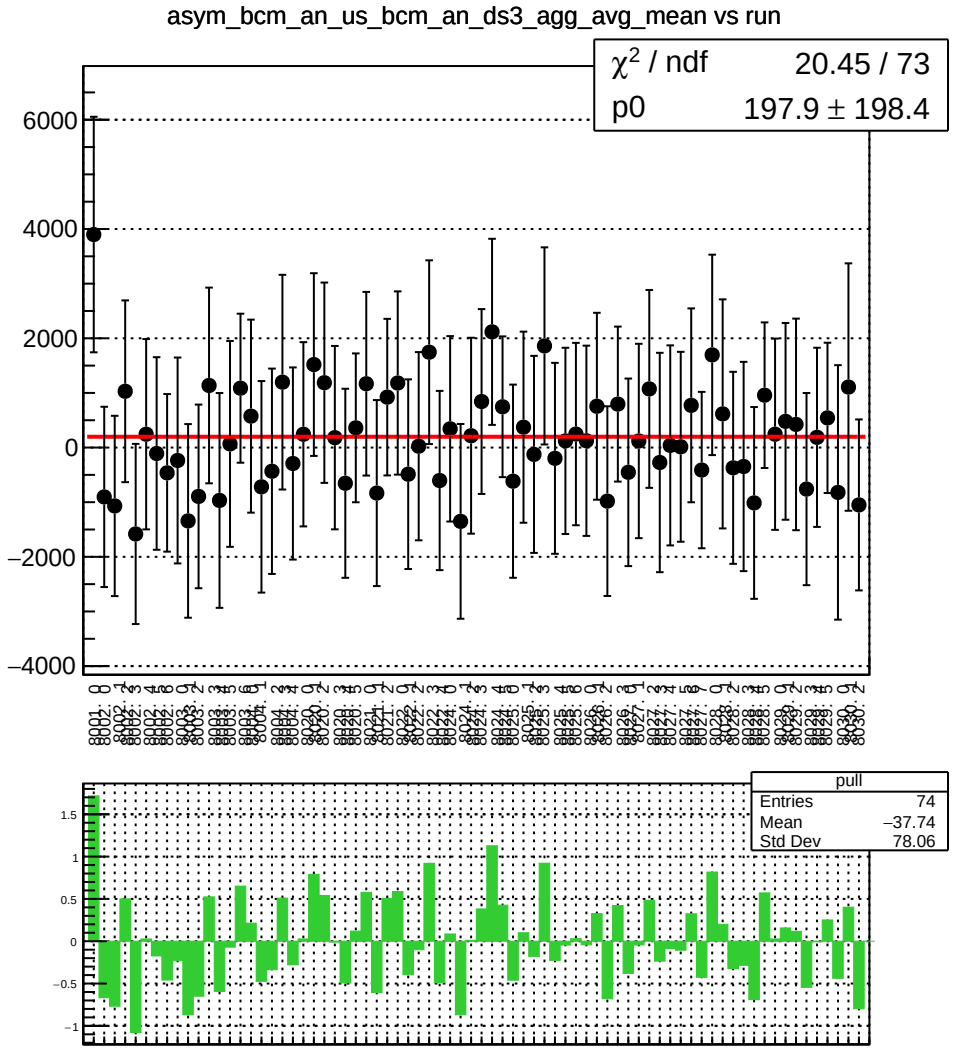

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 61.33 / 73
p0 6.796 ± 24.78
pull
Entries 74
Mean −11.69
Std Dev 32.69
pull1D
Entries 74
Mean −0.01494
Std Dev 0.9103

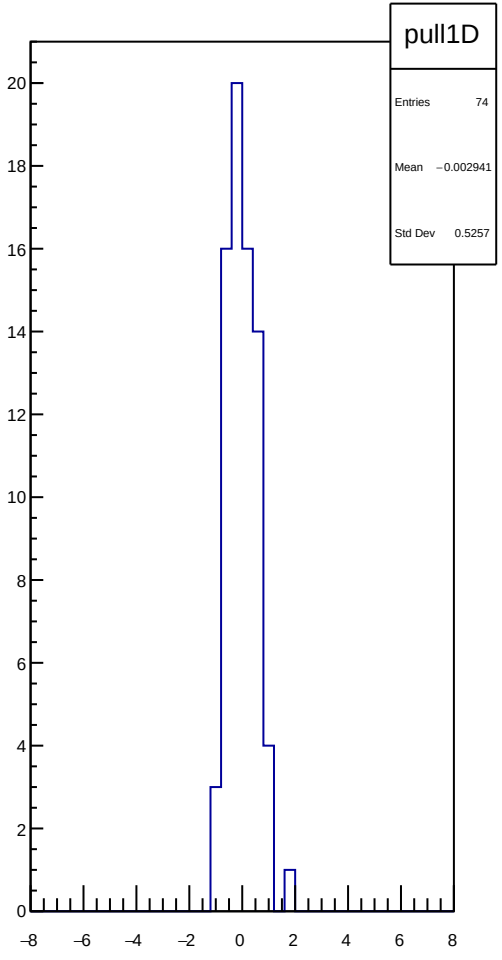

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 694.3 / 73
p0 21.07 ± 0.01752
22.5
22
21.5
21
20.5
20

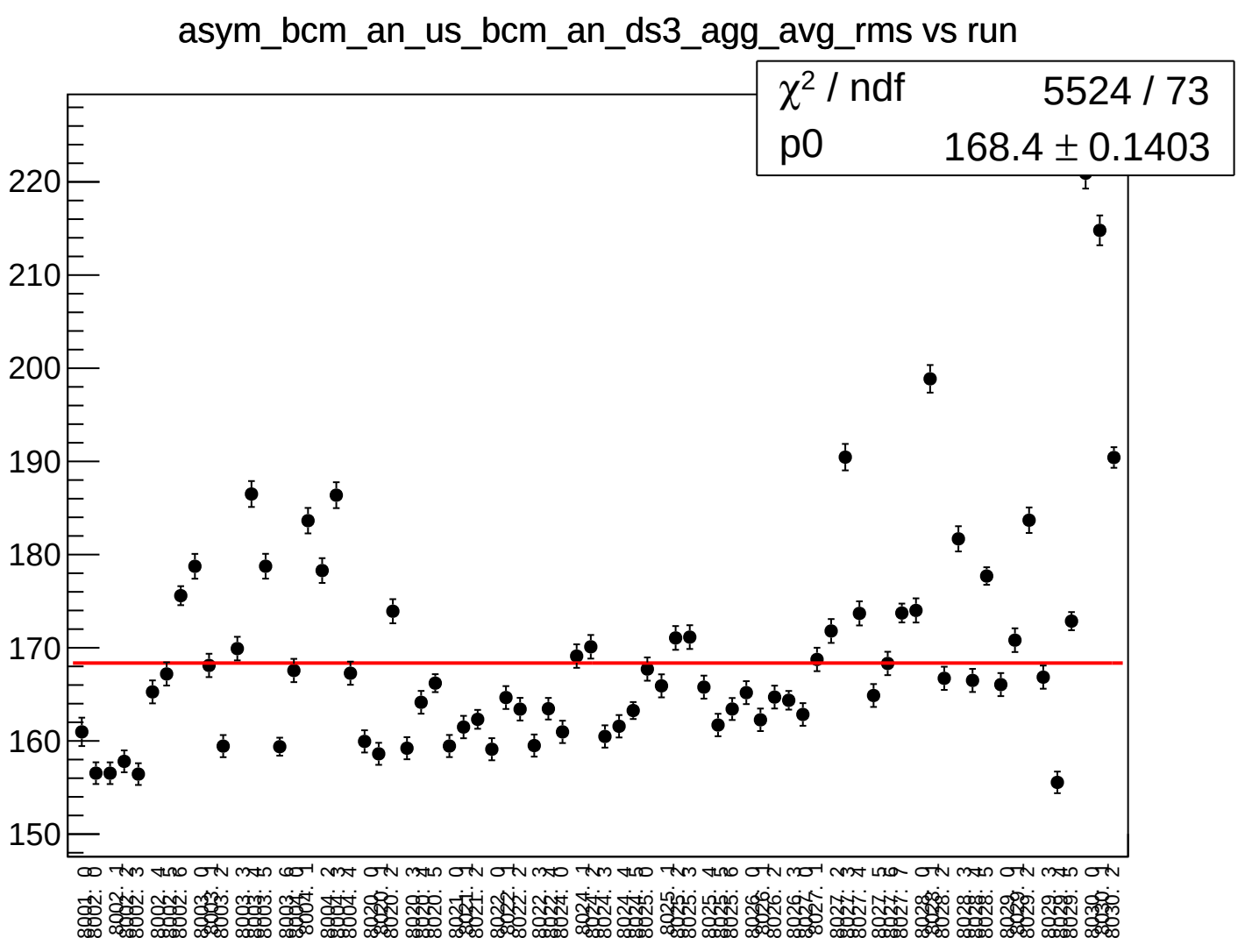

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 70.68 / 73
p0 −10.12 ± 12.54
pull
Entries 74
Mean −114.9
Std Dev 165.9

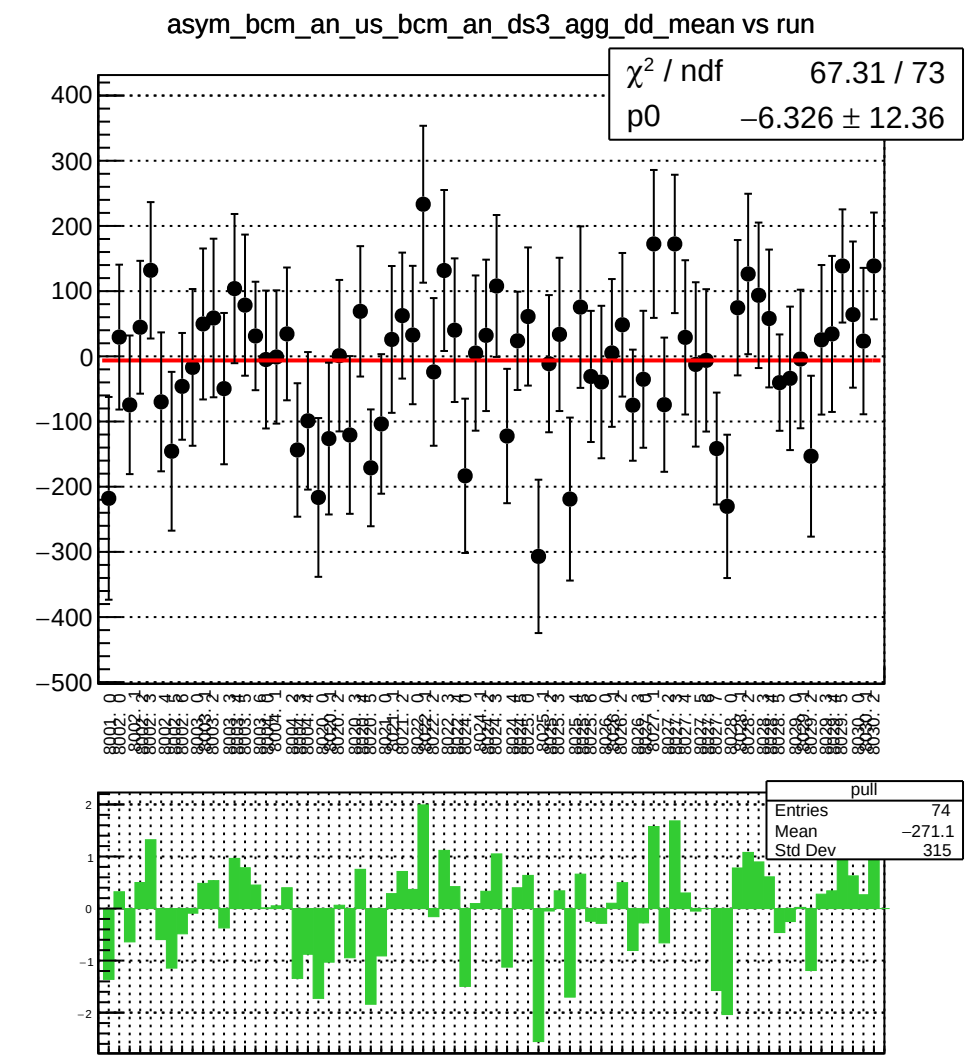

pull1D
Entries 74
Mean −0.01382
Std Dev 0.9772

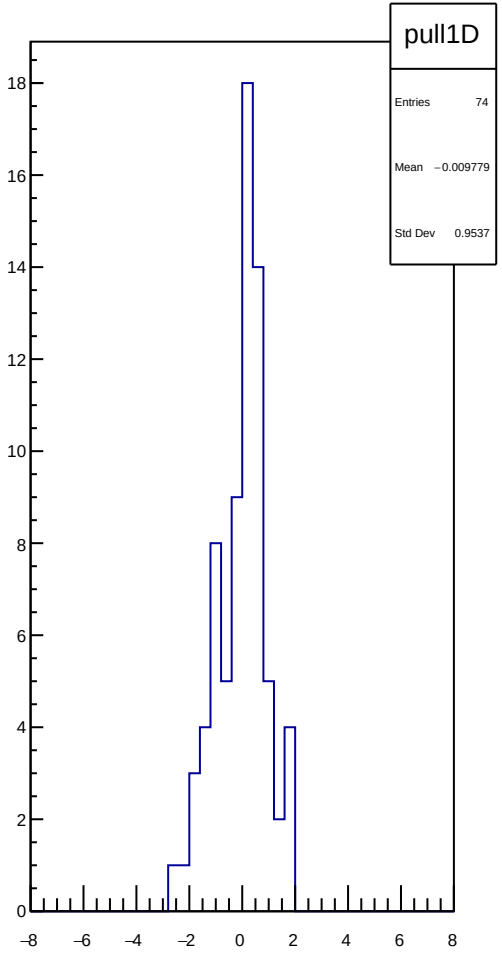

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 5747 / 73
p0 10.64 ± 0.008867
12.5
12
11.5
11
10.5
10
9.5

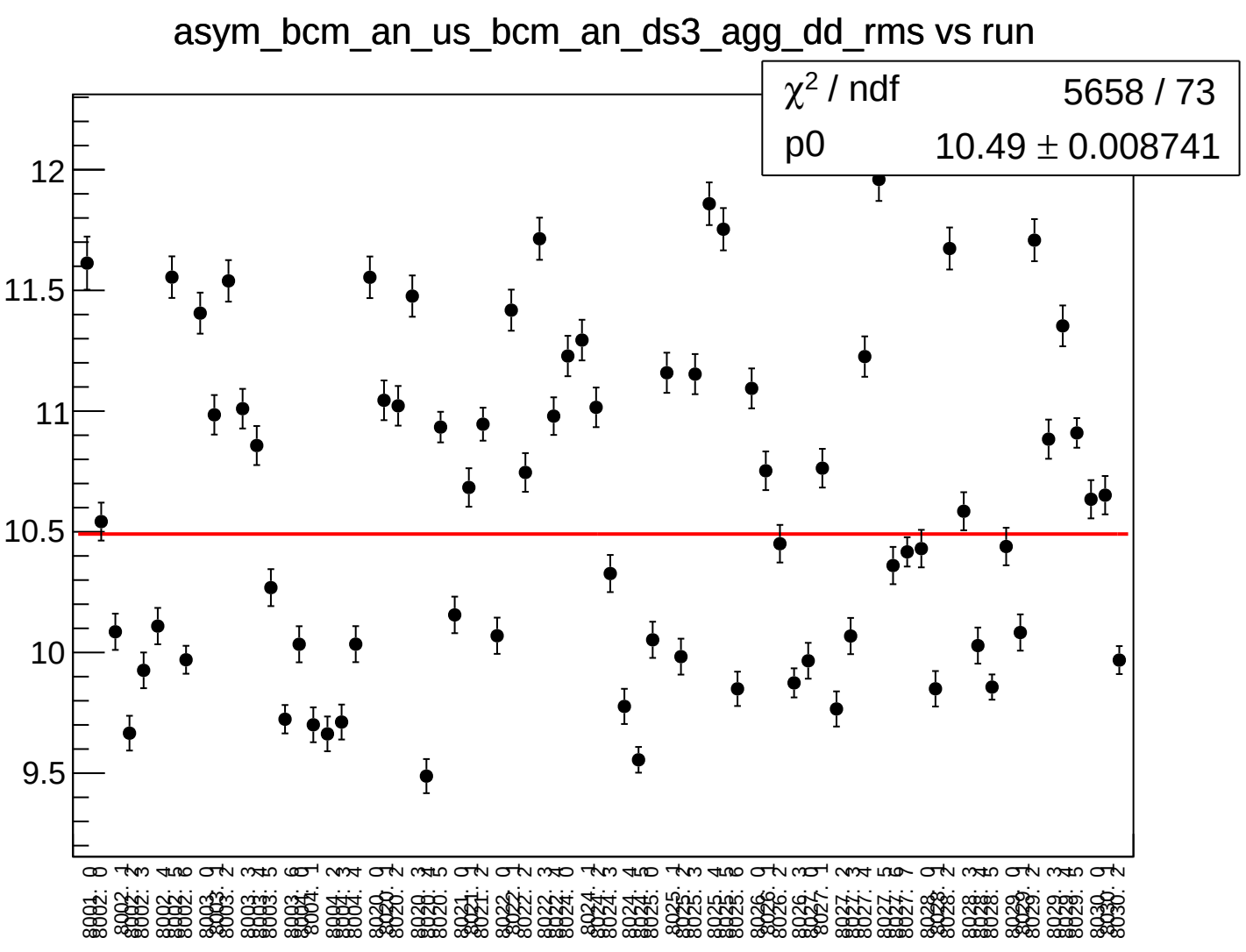

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 20.45 / 73
p0 197.9 ± 198.4
pull
Entries 74
Mean −37.74
Std Dev 78.06

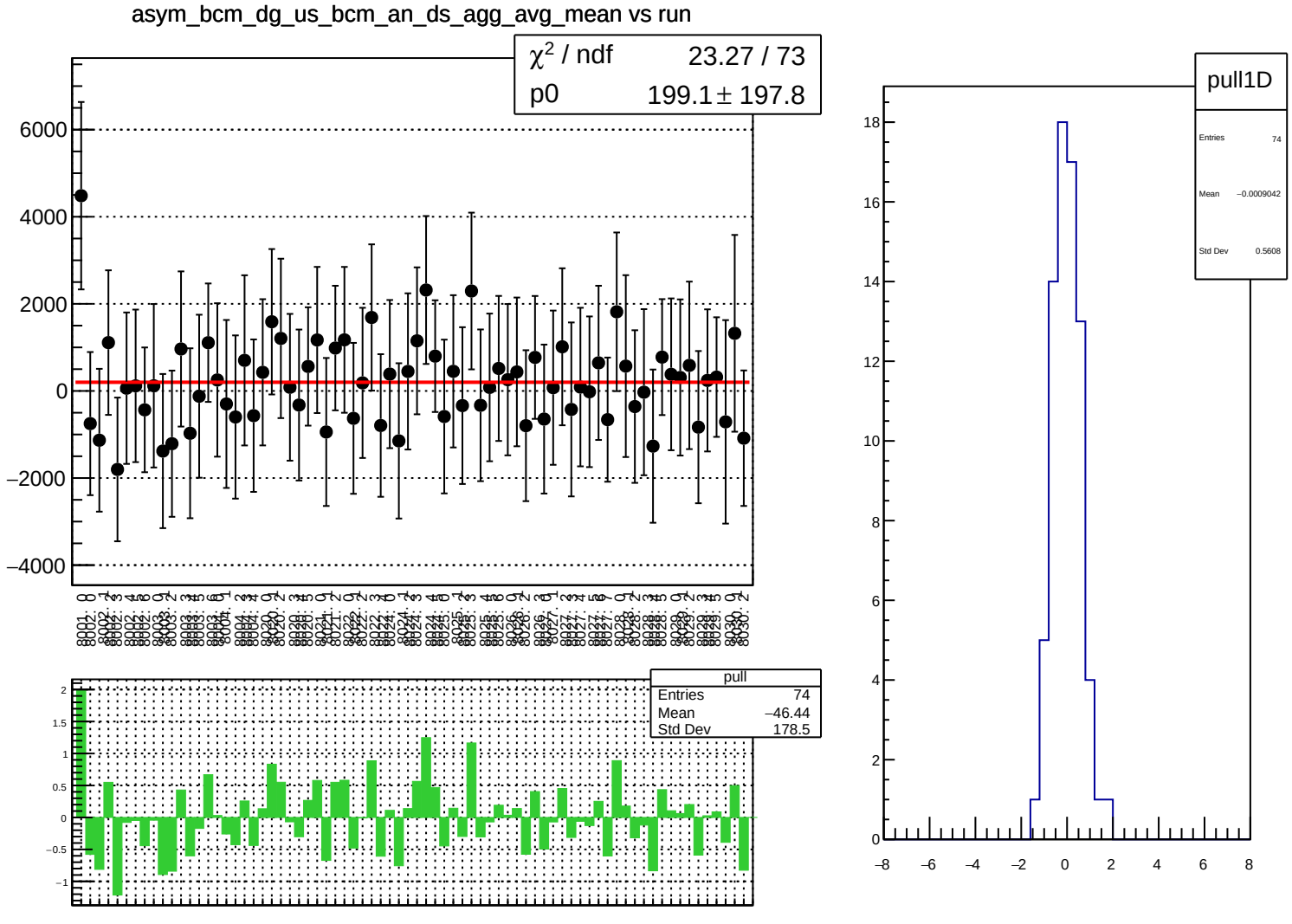

pull1D
Entries 74
Mean −0.002941
Std Dev 0.5257

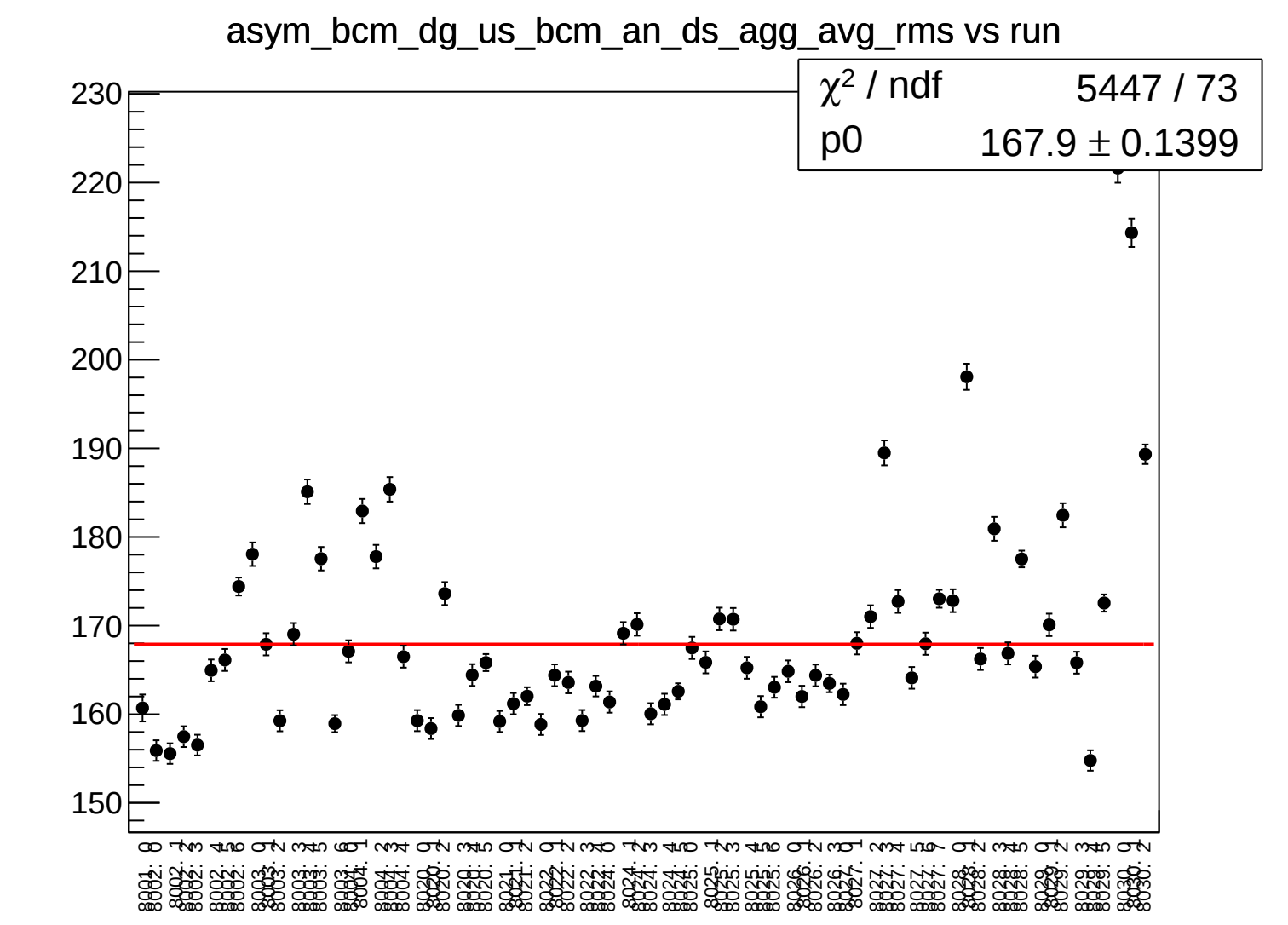

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 5524 / 73
p0 168.4 ± 0.1403
220
210
200
190
180
170
160
150

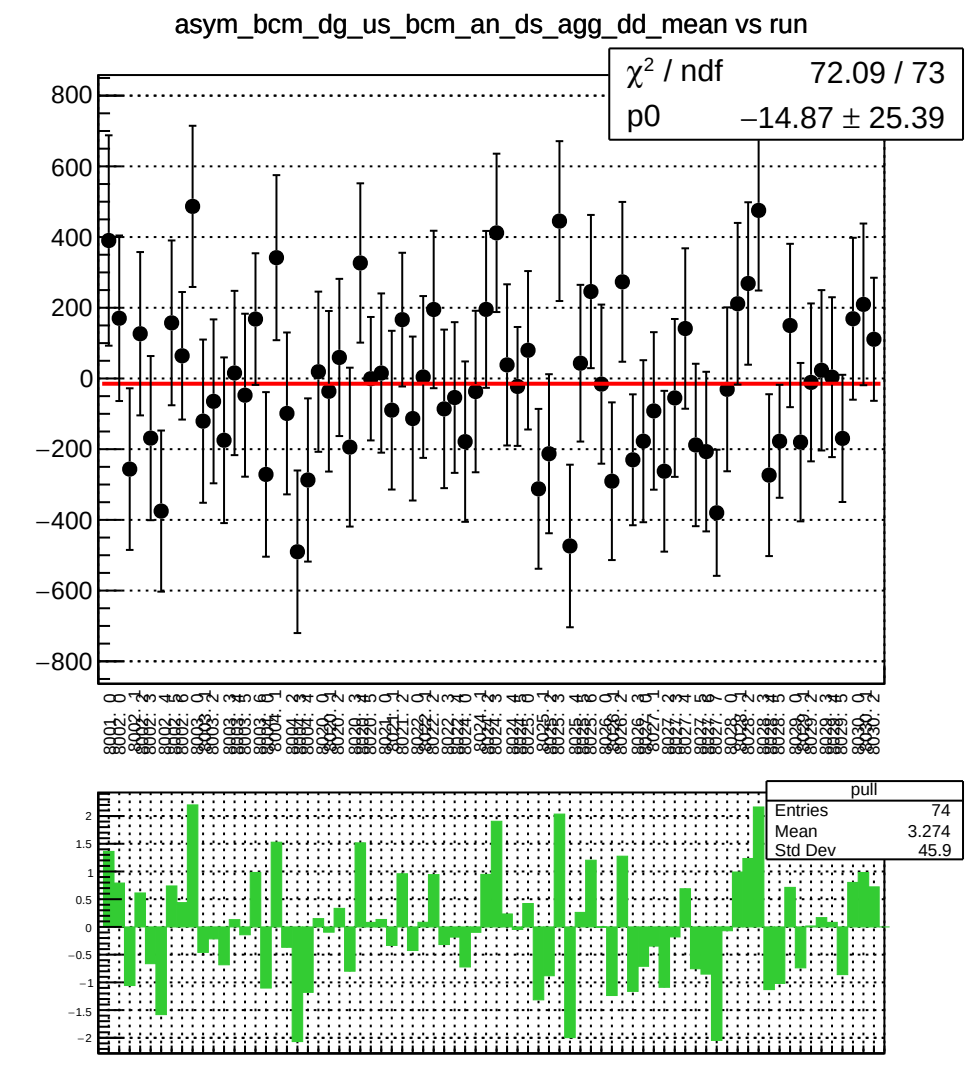

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 67.31 / 73
p0 −6.326 ± 12.36
pull
Entries 74
Mean −271.1
Std Dev 315

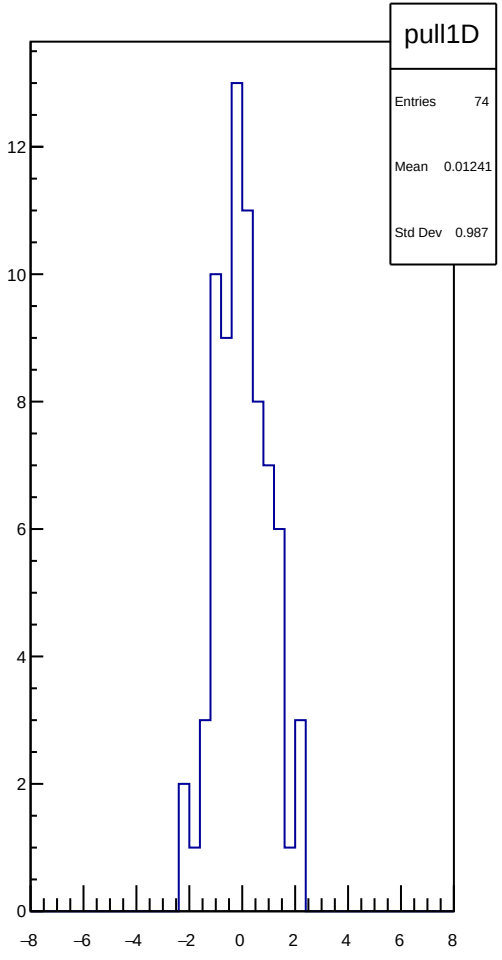

pull1D
Entries 74
Mean −0.009779
Std Dev 0.9537

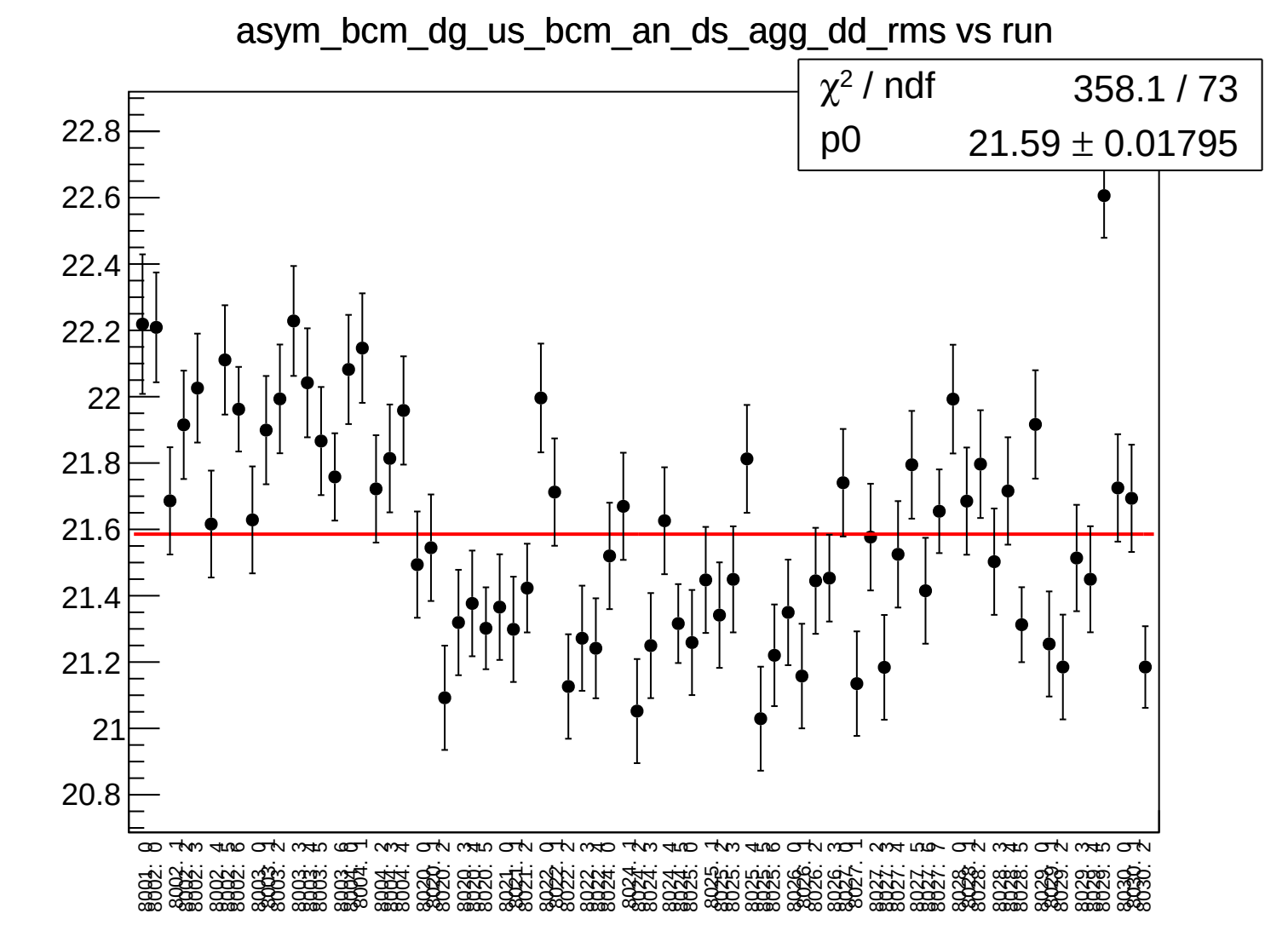

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 5658 / 73
p0 10.49 ± 0.008741
12
11.5
11
10.5
10
9.5

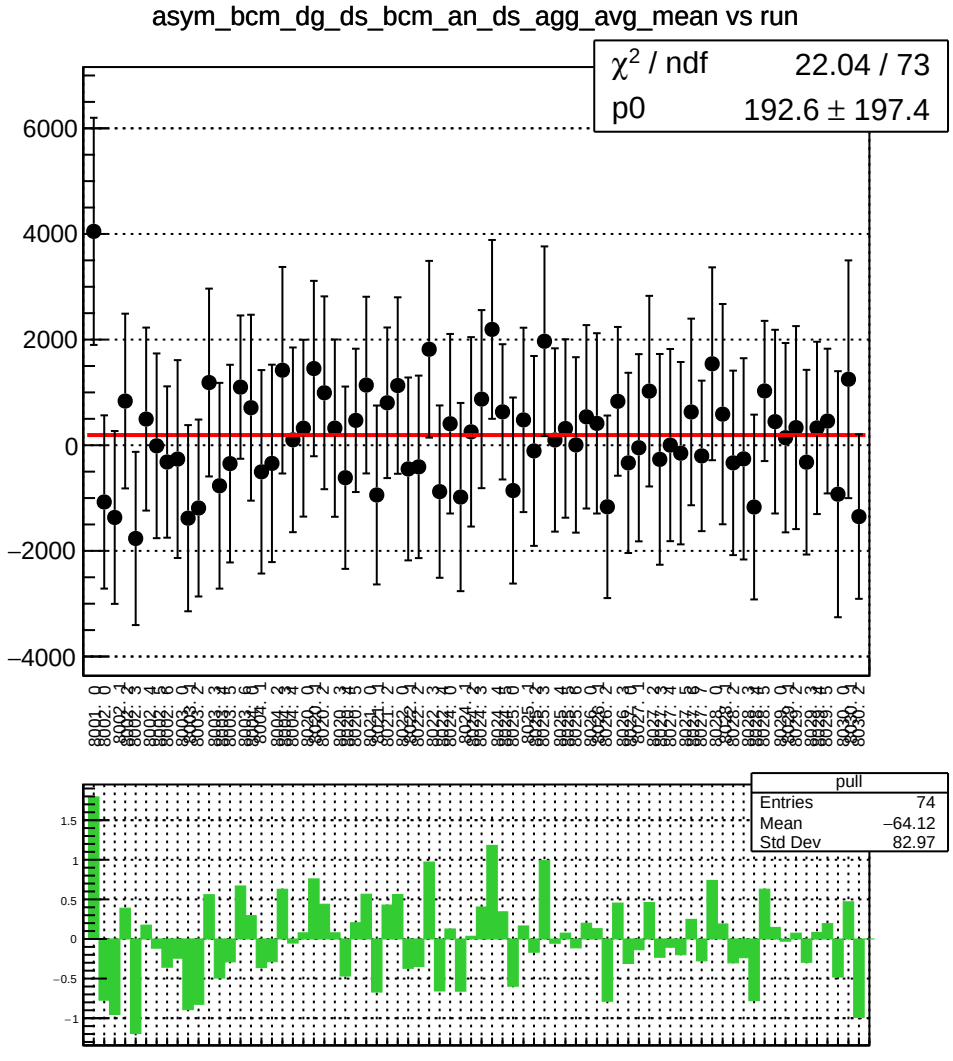

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 23.27 / 73
p0 199.1 ± 197.8
pull
Entries 74
Mean −46.44
Std Dev 178.5
pull1D
Entries 74
Mean −0.0009042
Std Dev 0.5608

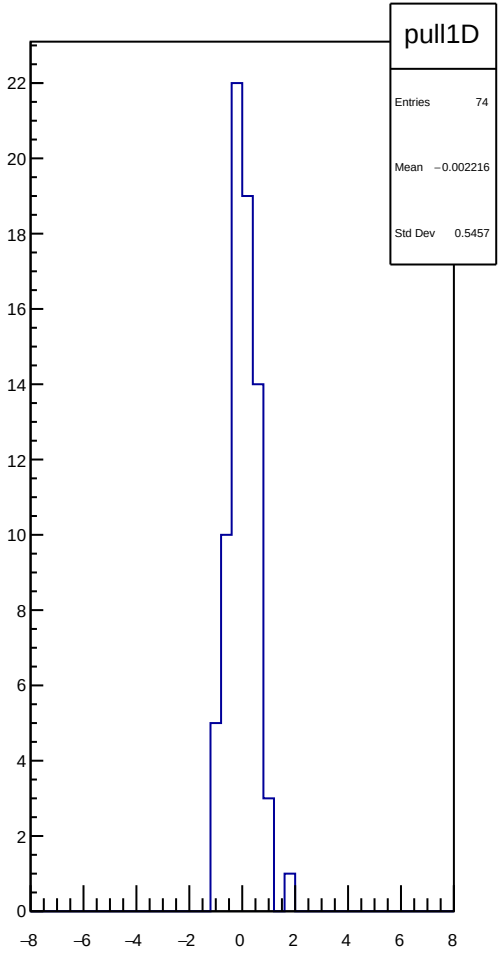

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5447 / 73
p0 167.9 ± 0.1399
230
220
210
200
190
180
170
160
150

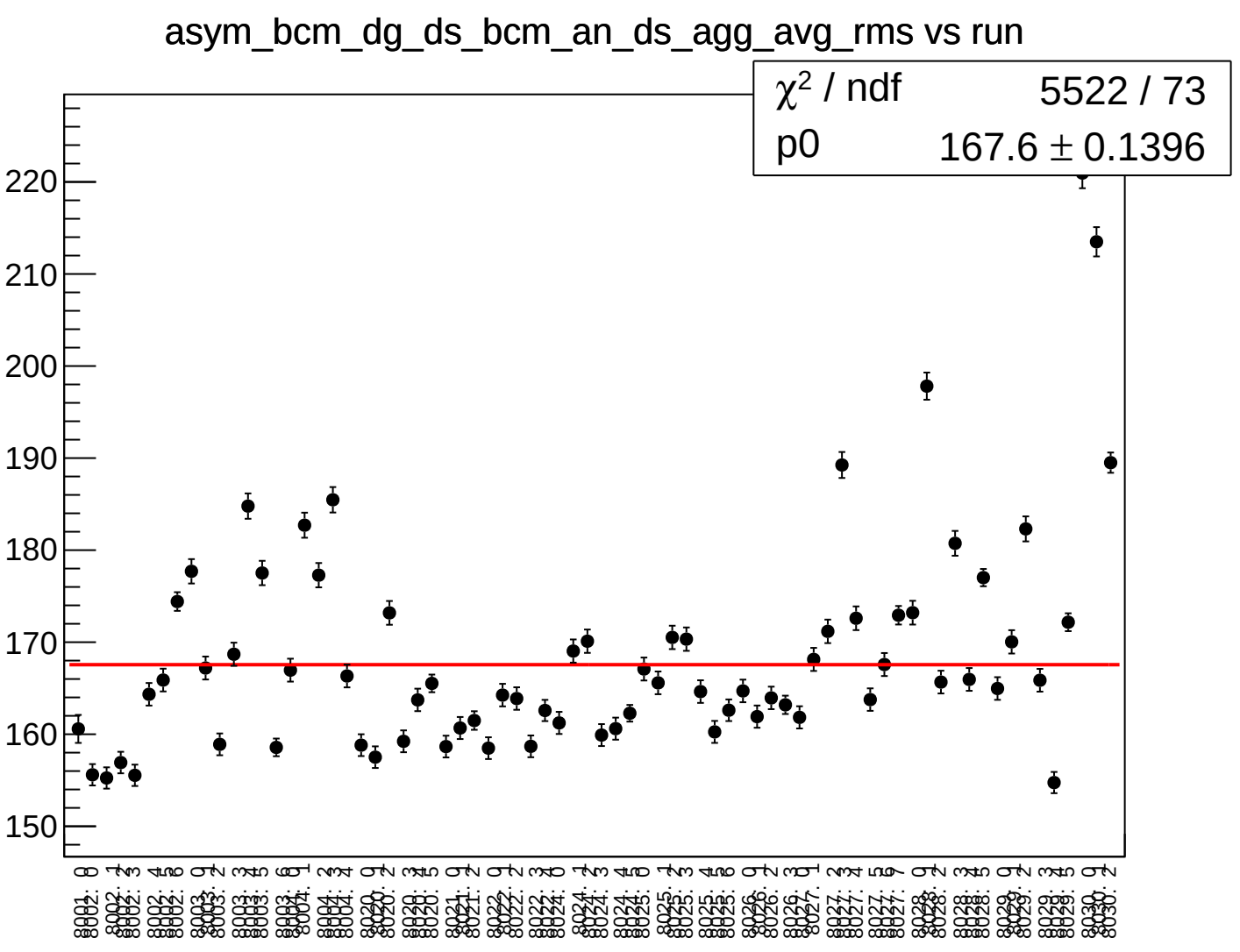

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 72.09 / 73
p0 −14.87 ± 25.39
pull
Entries 74
Mean 3.274
Std Dev 45.9

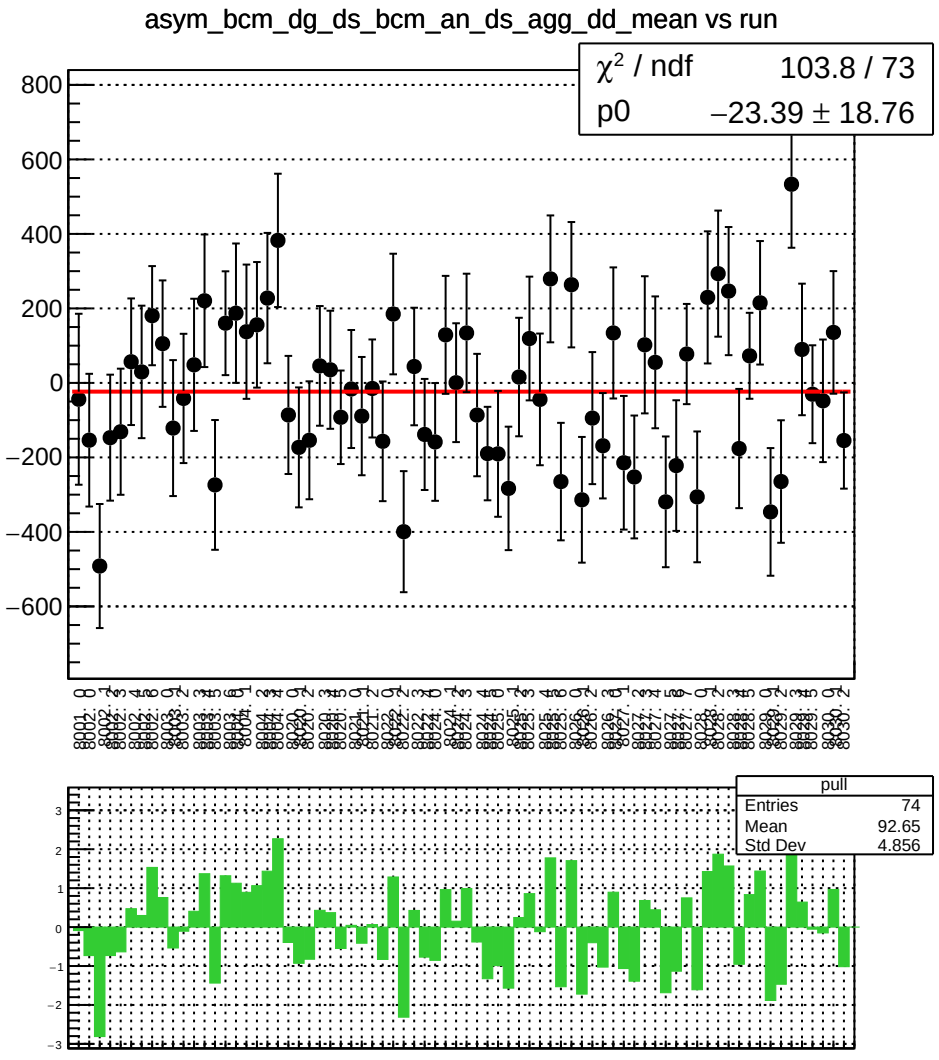

pull1D
Entries 74
Mean 0.01241
Std Dev 0.987

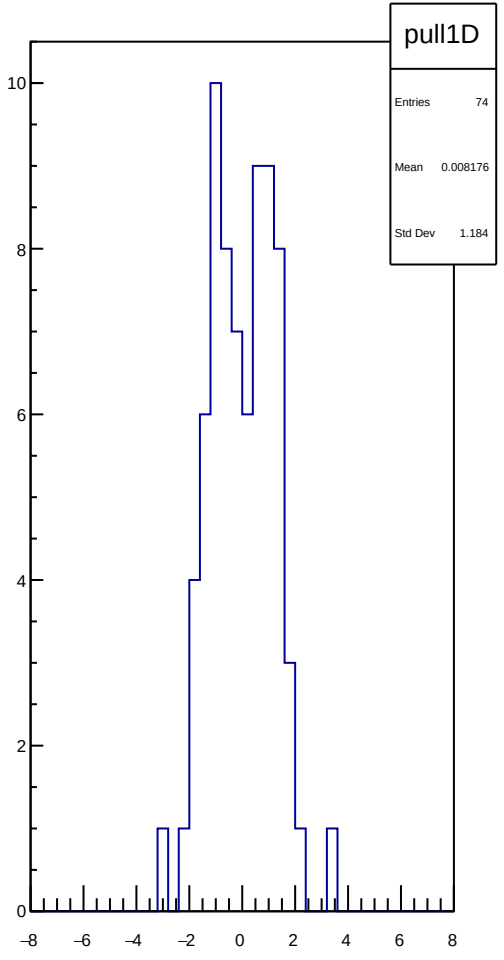

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 358.1 / 73
p0 21.59 ± 0.01795
22.8
22.6
22.4
22.2
22
21.8
21.6
21.4
21.2
21
20.8

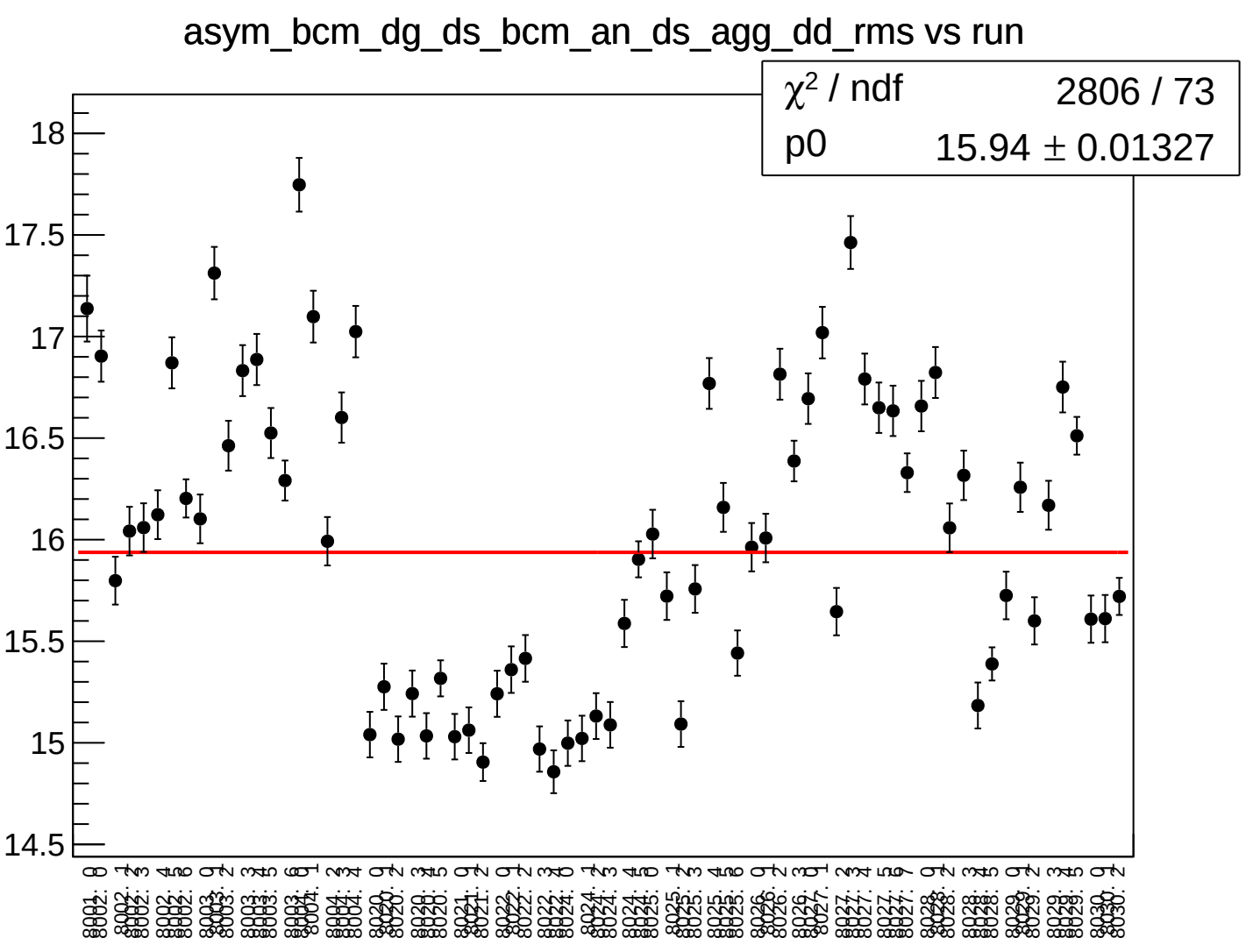

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.04 / 73
p0 192.6 ± 197.4
pull
Entries 74
Mean −64.12
Std Dev 82.97

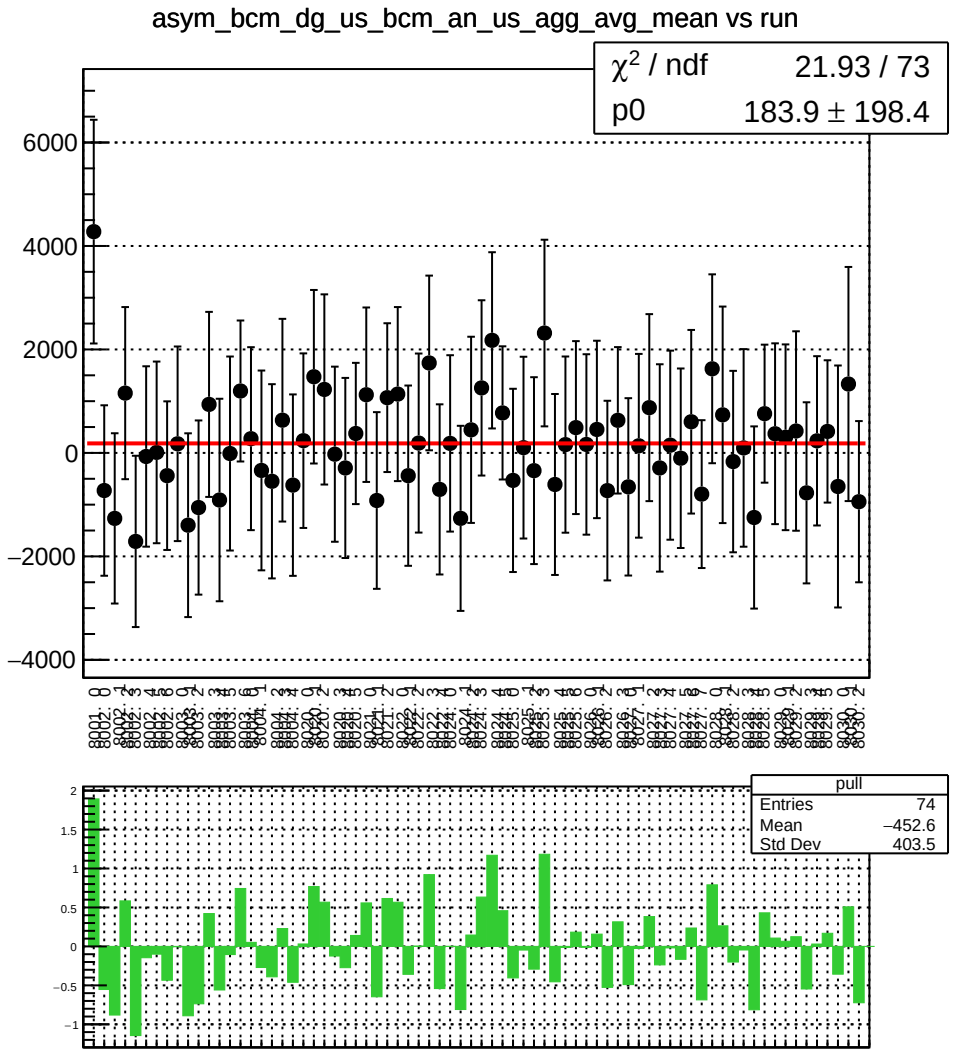

pull1D
Entries 74
Mean −0.002216
Std Dev 0.5457

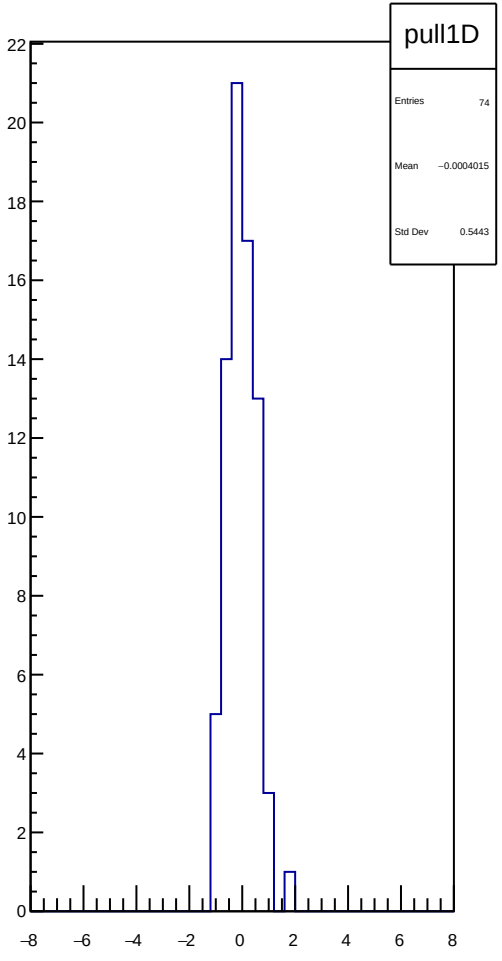

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 5522 / 73
p0 167.6 ± 0.1396
220
210
200
190
180
170
160
150

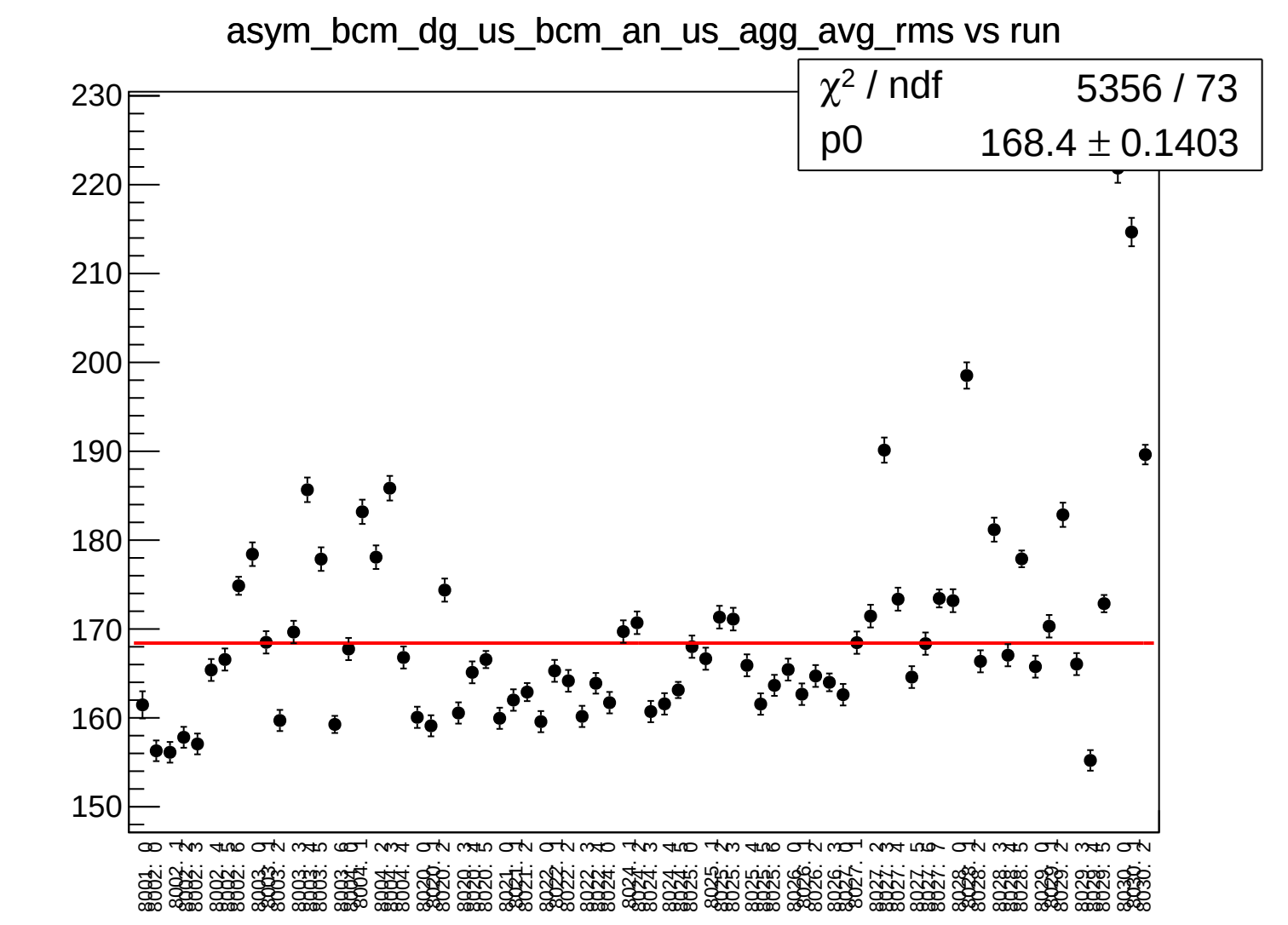

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 103.8 / 73
p0 −23.39 ± 18.76
pull
Entries 74
Mean 92.65
Std Dev 4.856

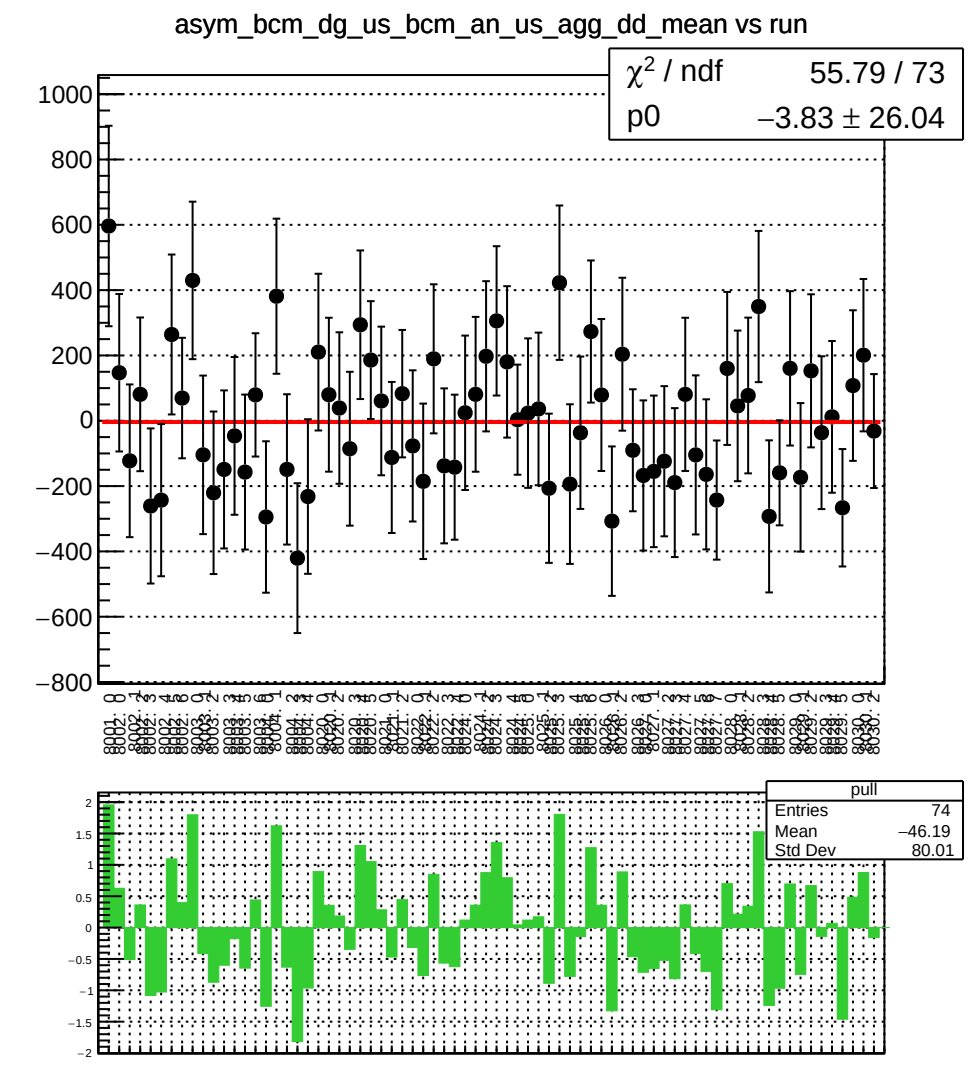

pull1D
Entries 74
Mean 0.008176
Std Dev 1.184

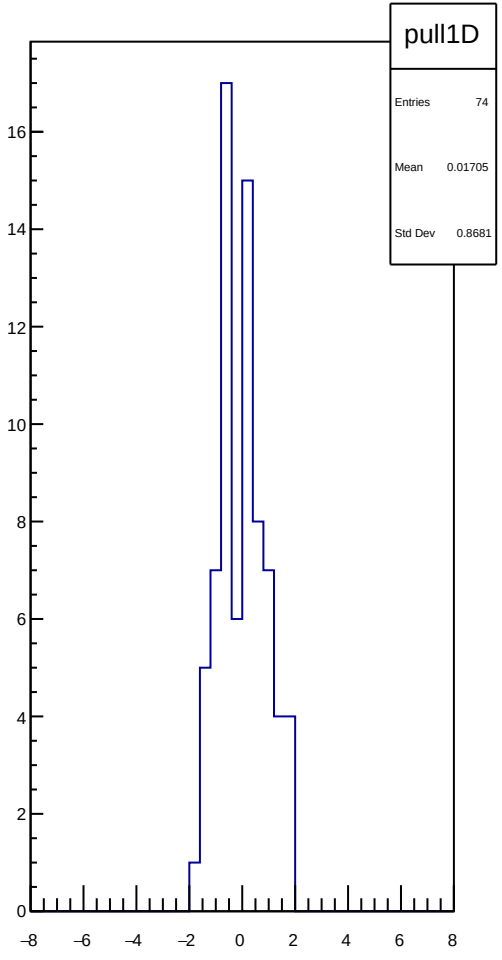

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2806 / 73
p0 15.94 ± 0.01327
18
17.5
17
16.5
16
15.5
15
14.5

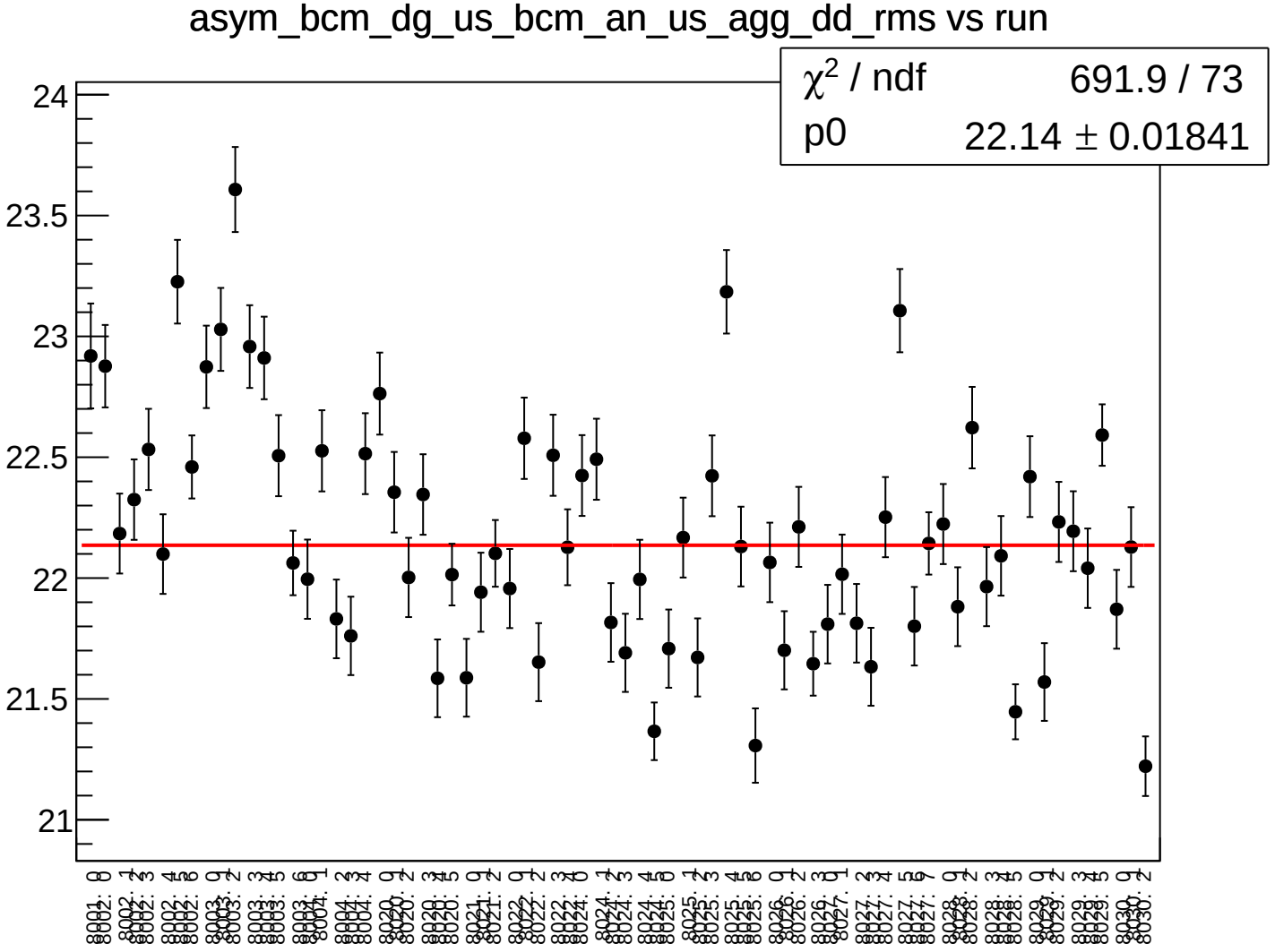

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 21.93 / 73
p0 183.9 ± 198.4
pull
Entries 74
Mean −452.6
Std Dev 403.5

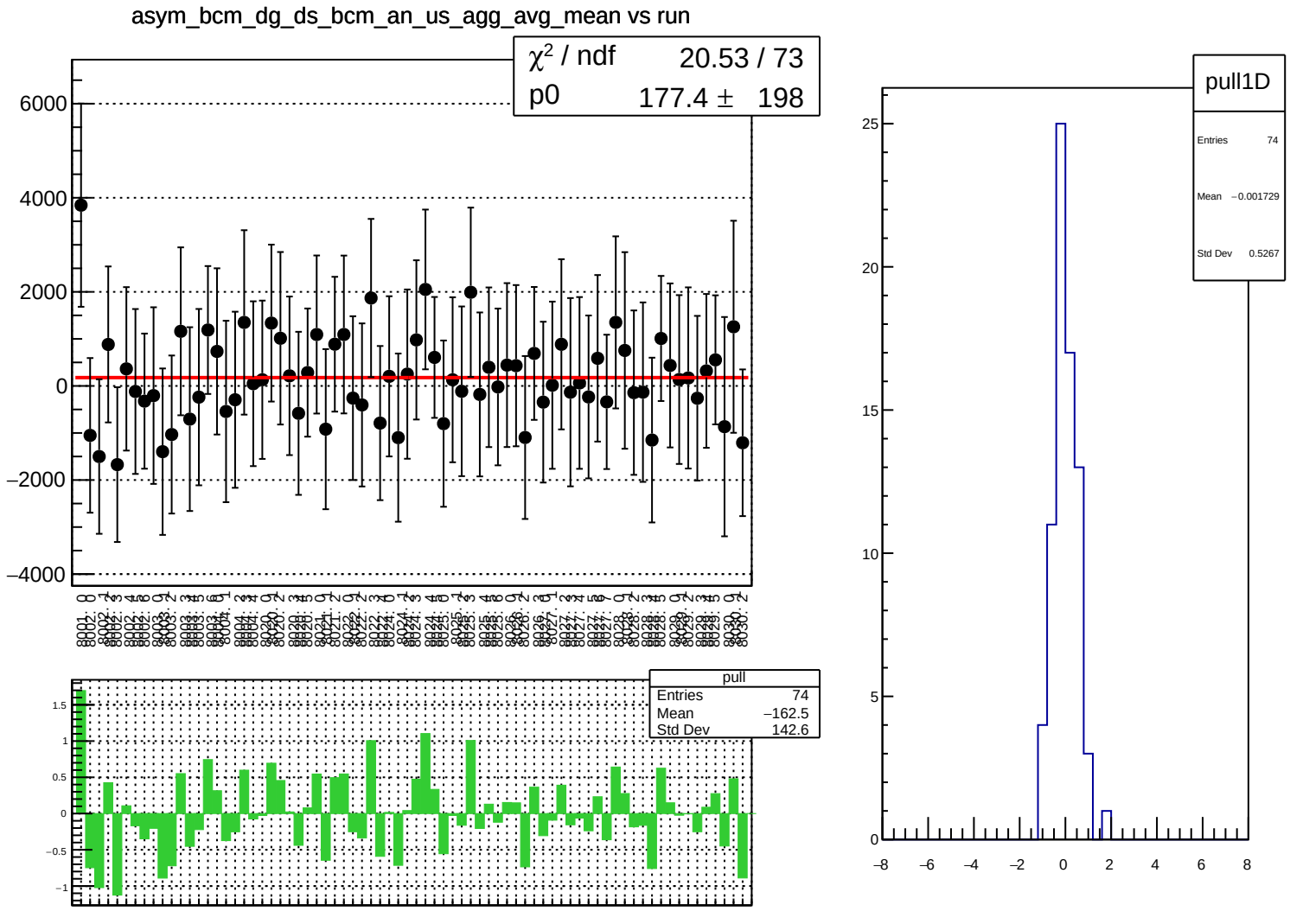

pull1D
Entries 74
Mean −0.0004015
Std Dev 0.5443

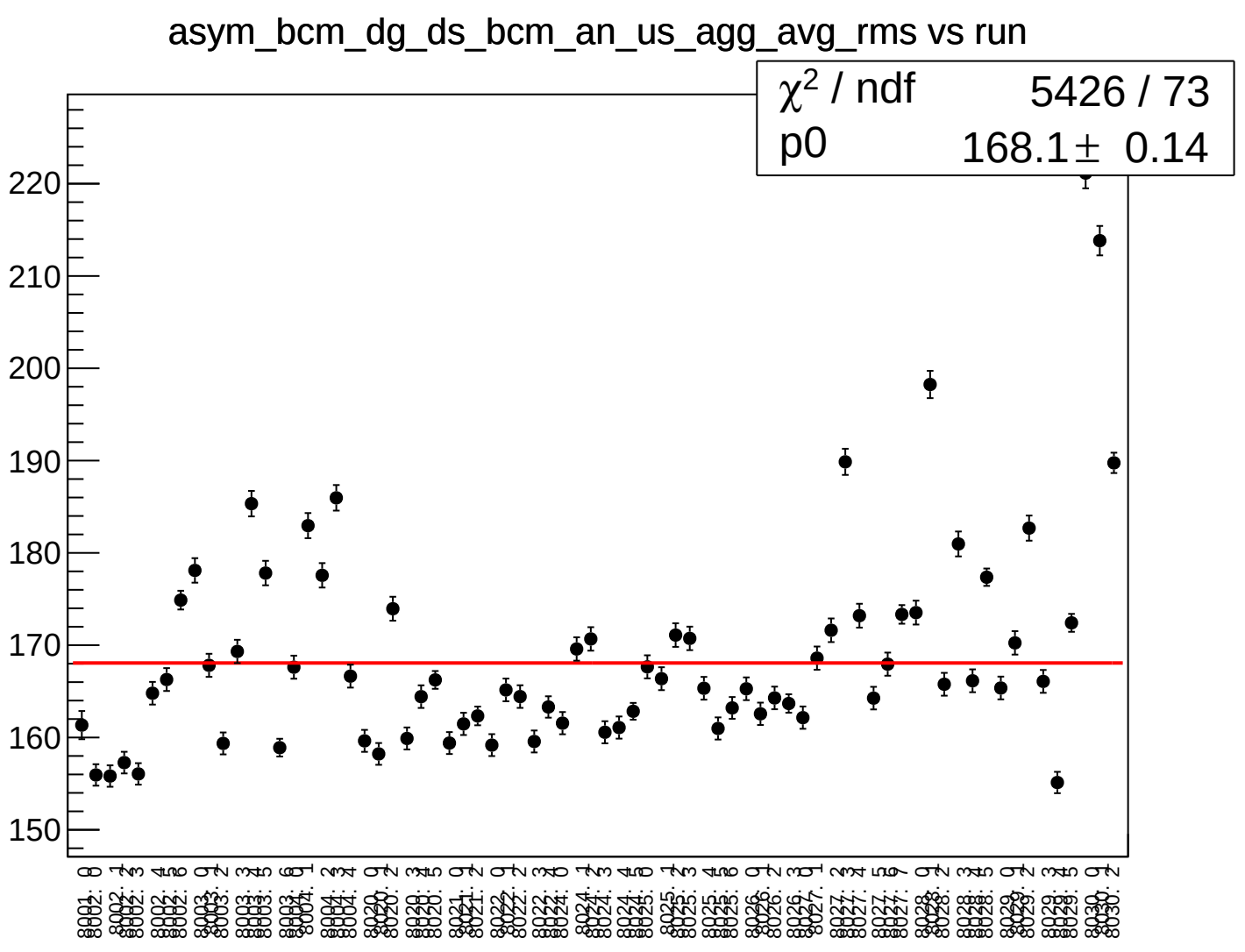

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5356 / 73
p0 168.4 ± 0.1403
230
220
210
200
190
180
170
160
150

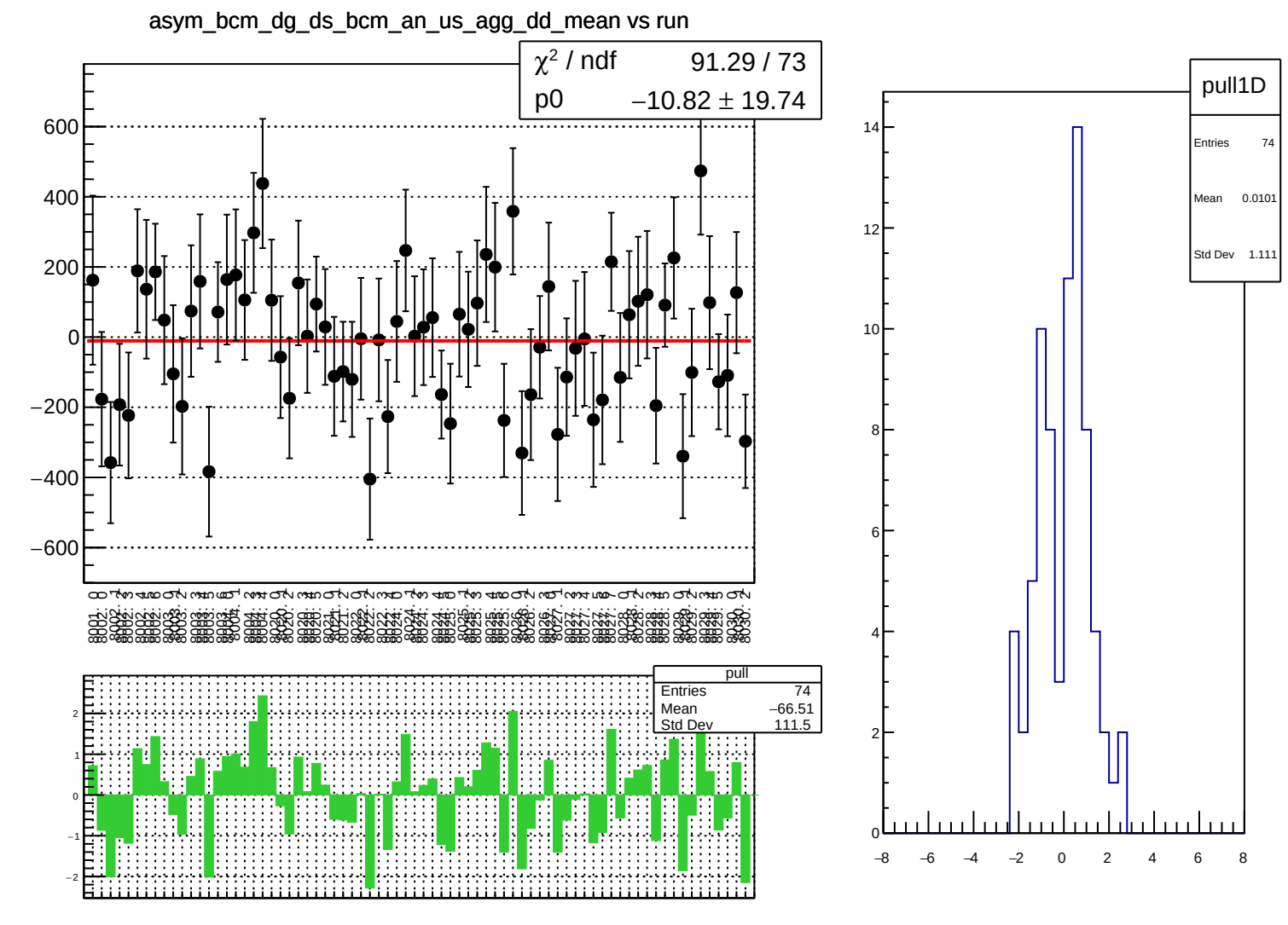

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 55.79 / 73
p0 −3.83 ± 26.04
pull
Entries 74
Mean −46.19
Std Dev 80.01

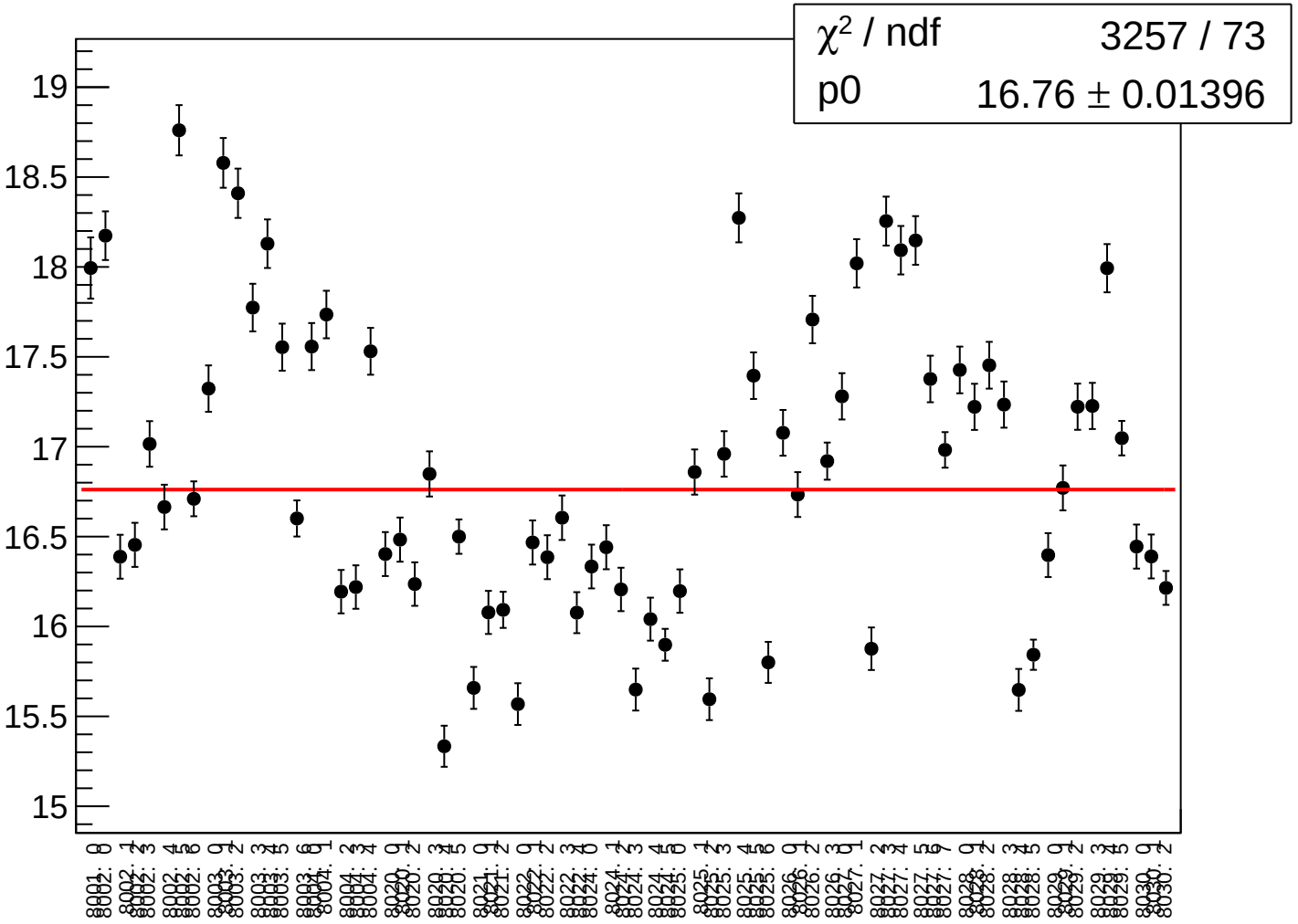

pull1D
Entries 74
Mean 0.01705
Std Dev 0.8681

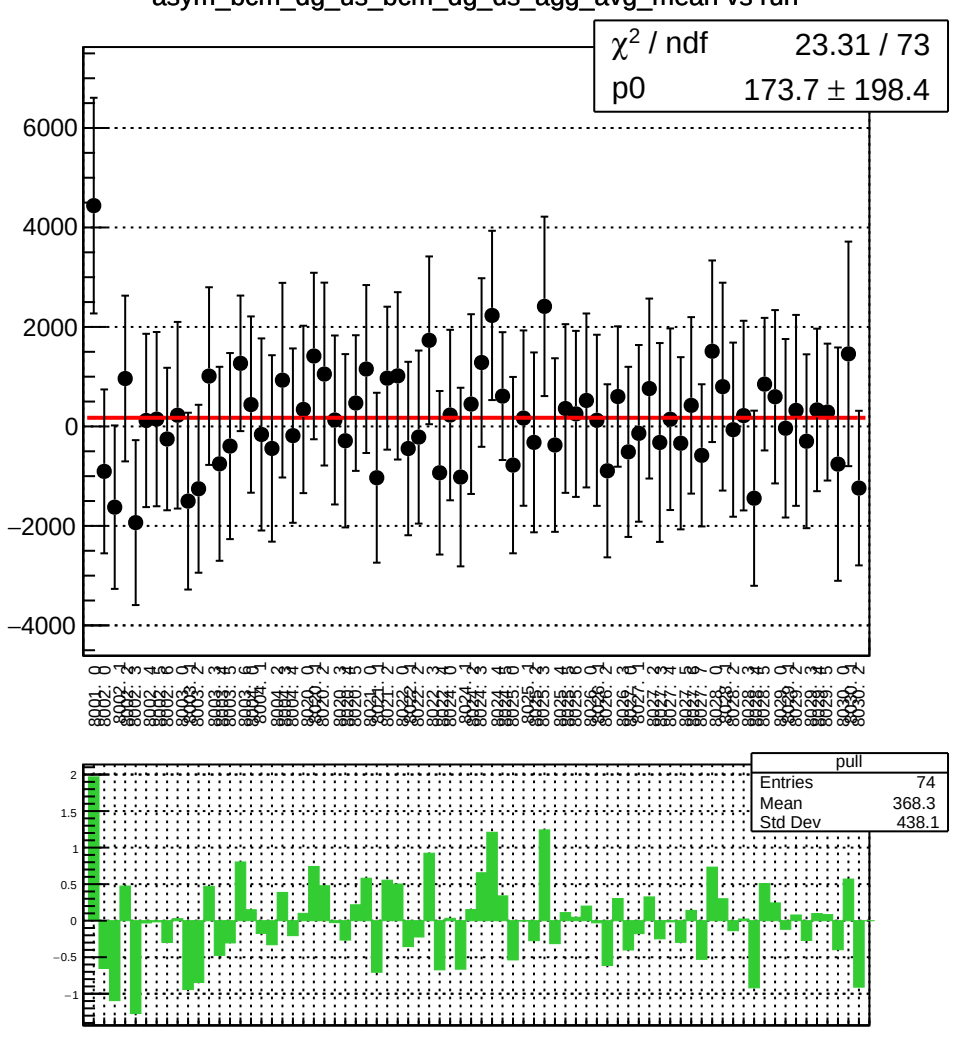

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 691.9 / 73
p0 22.14 ± 0.01841
24
23.5
23
22.5
22
21.5
21

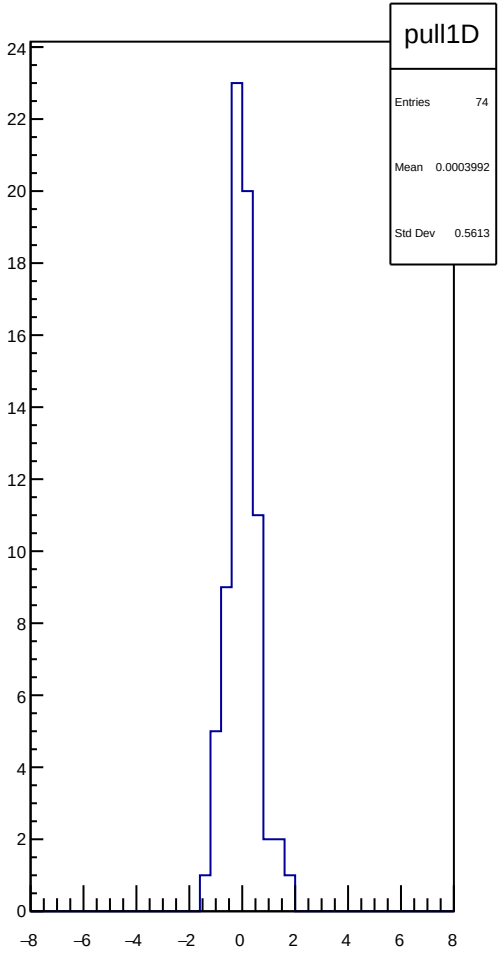

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.53 / 73
p0 177.4 ± 198
pull
Entries 74
Mean −162.5
Std Dev 142.6
pull1D
Entries 74
Mean −0.001729
Std Dev 0.5267

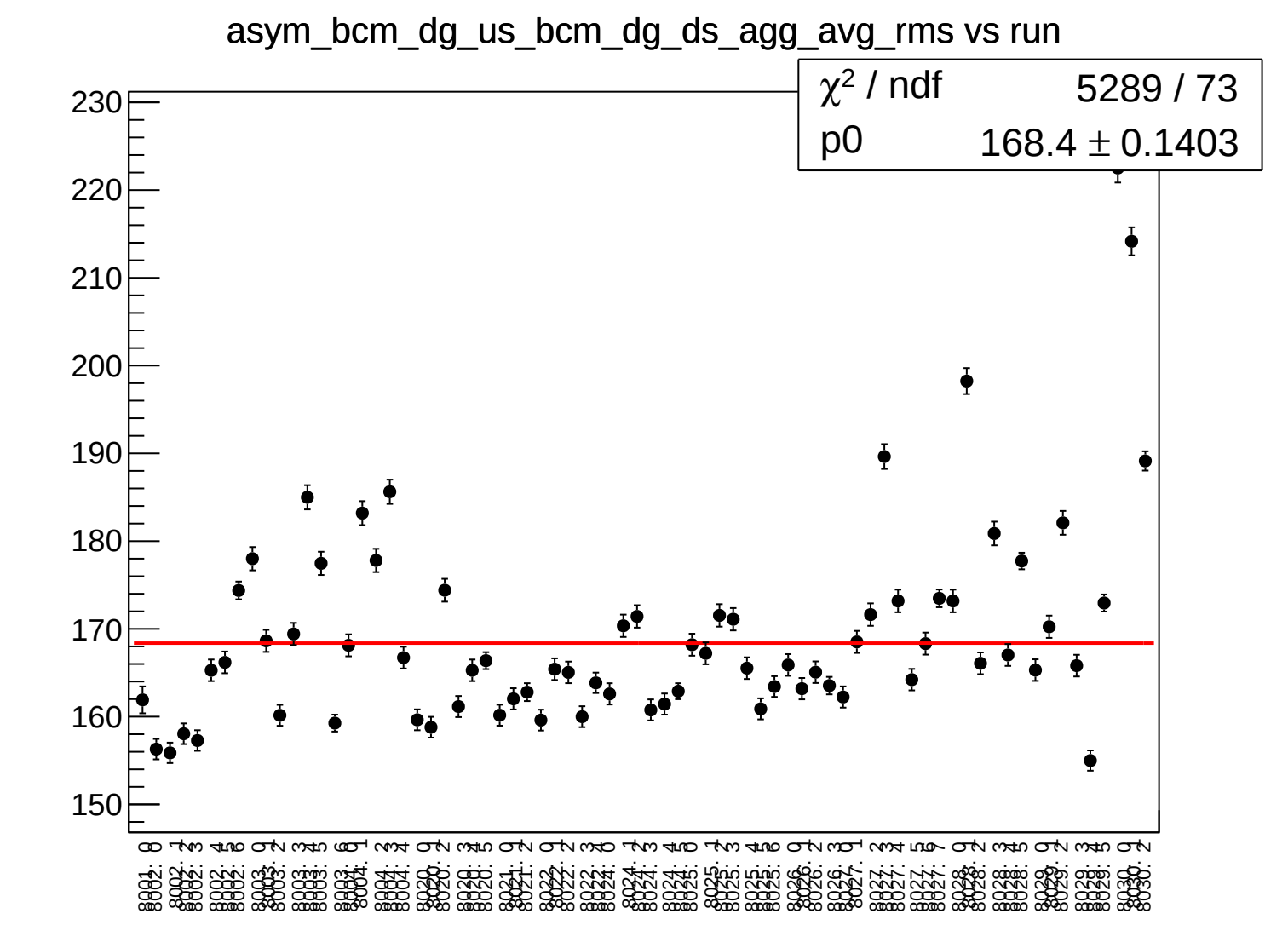

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 5426 / 73
p0 168.1 ± 0.14
220
210
200
190
180
170
160
150

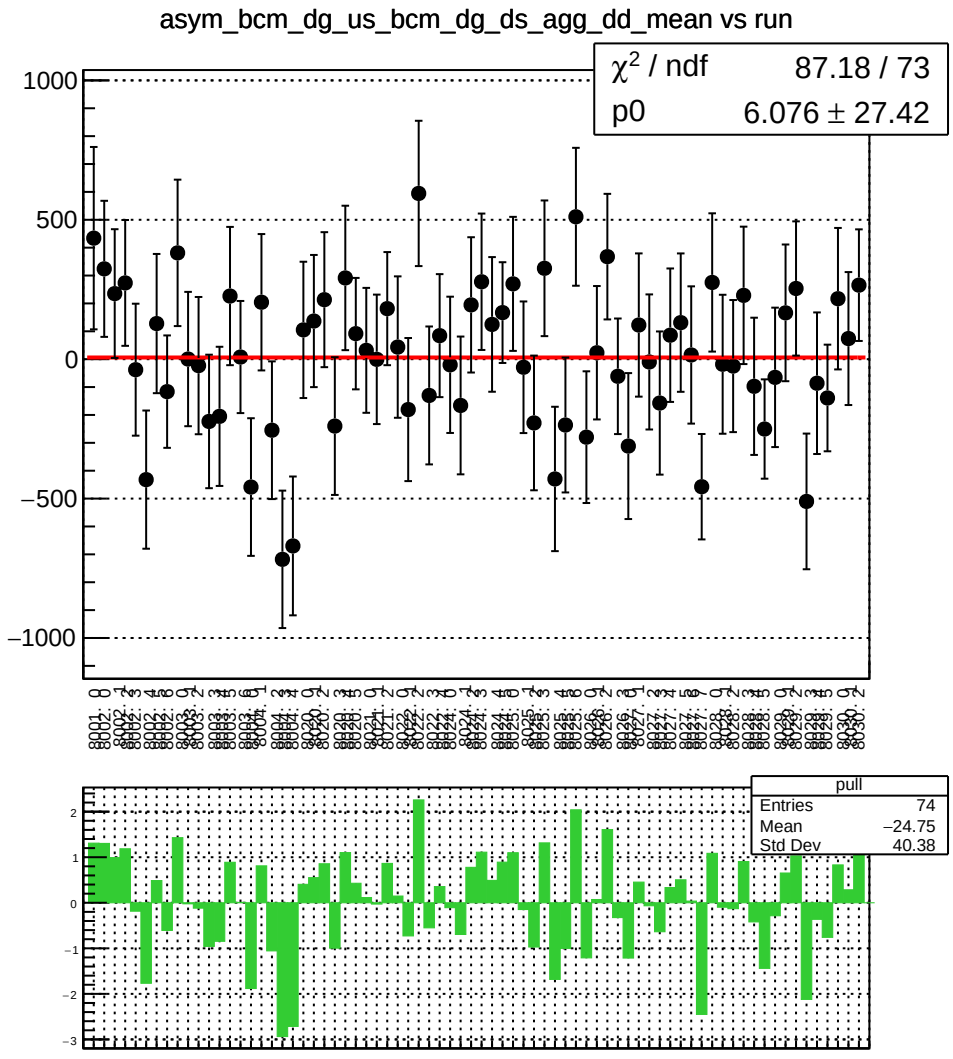

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 91.29 / 73
p0 −10.82 ± 19.74
pull
Entries 74
Mean −66.51
Std Dev 111.5
pull1D
Entries 74
Mean 0.0101
Std Dev 1.111

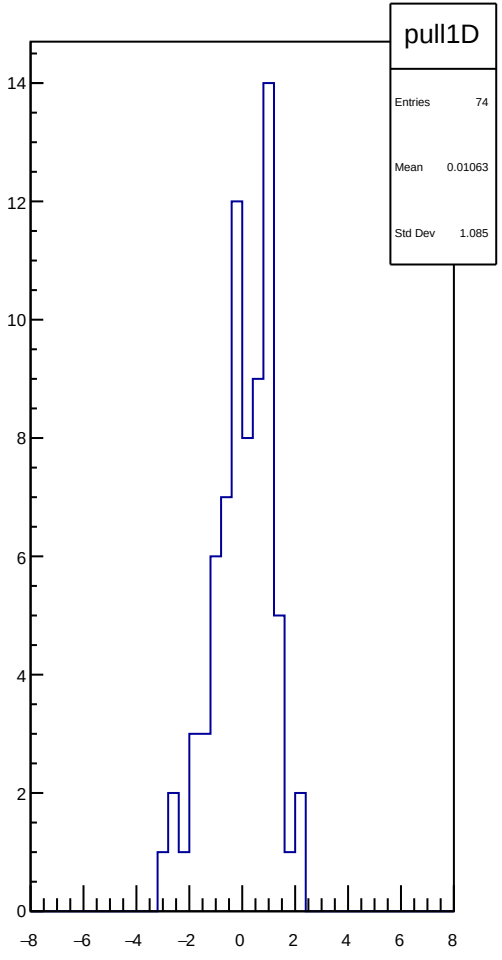

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3257 / 73
p0 16.76 ± 0.01396
19
18.5
18
17.5
17
16.5
16
15.5
15

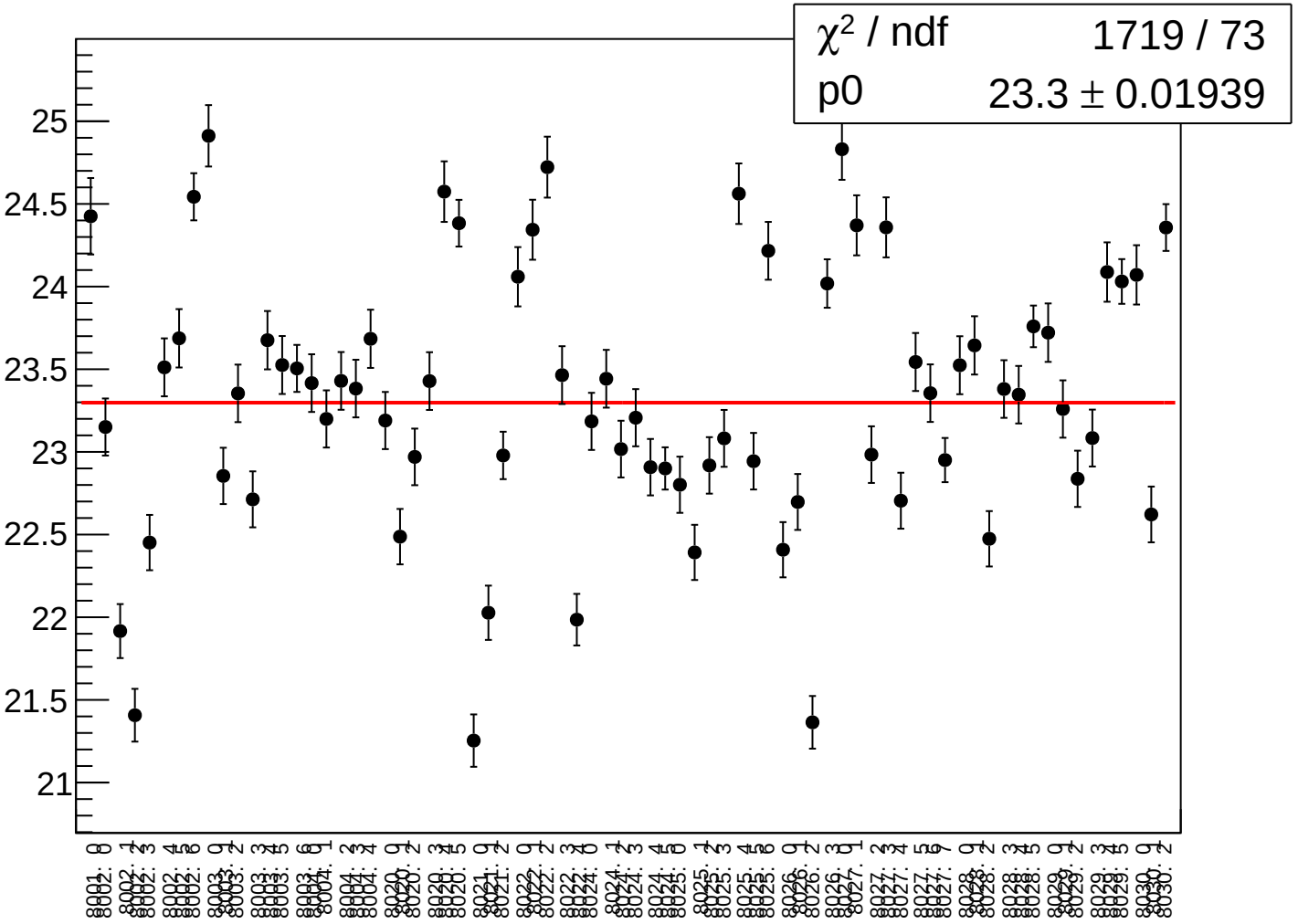

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 23.31 / 73
p0 173.7 ± 198.4
pull
Entries 74
Mean 368.3
Std Dev 438.1

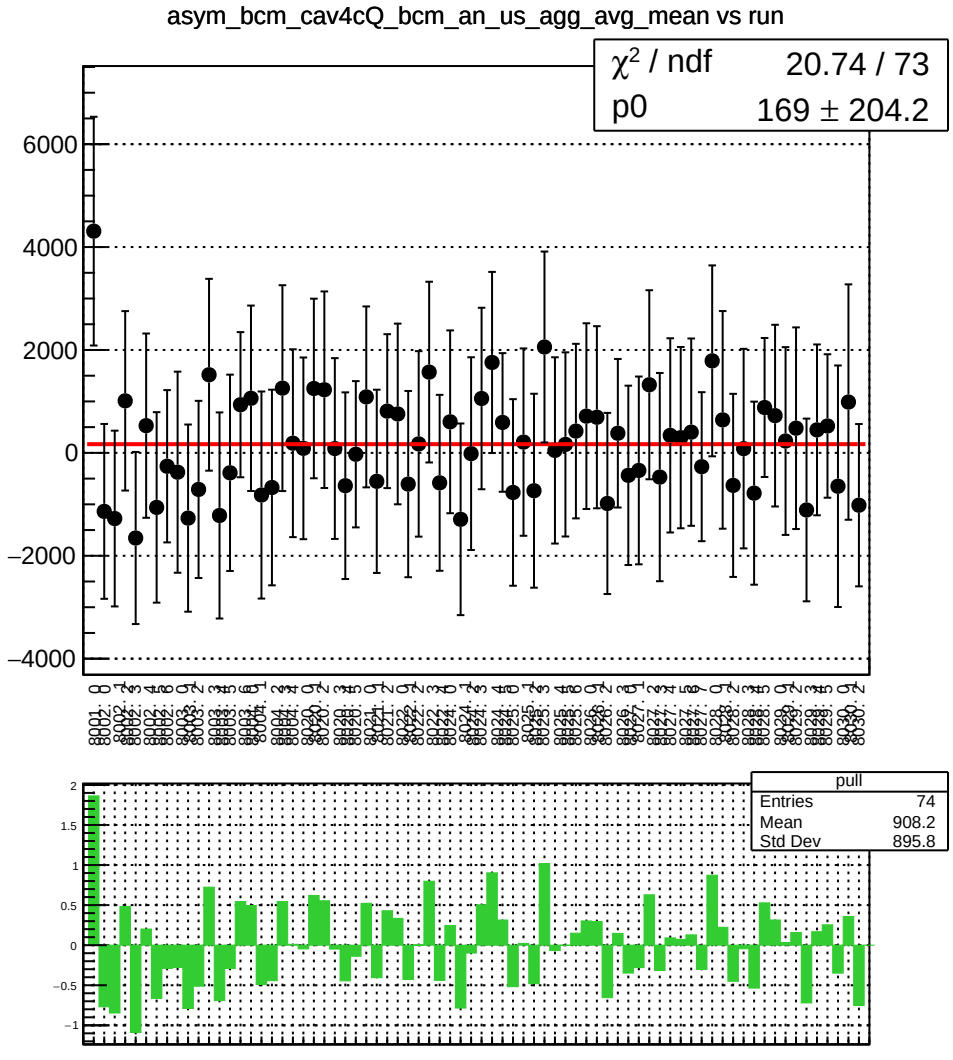

pull1D
Entries 74
Mean 0.0003992
Std Dev 0.5613

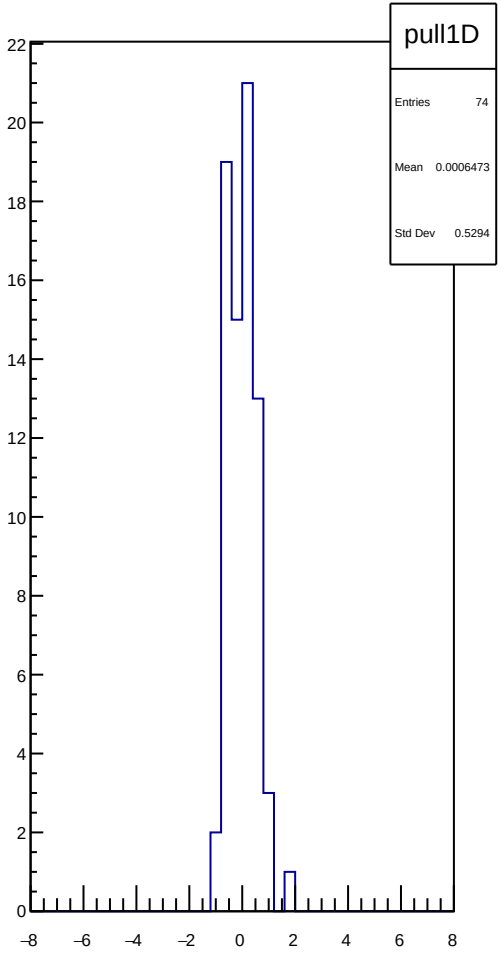

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5289 / 73
p0 168.4 ± 0.1403
230
220
210
200
190
180
170
160
150

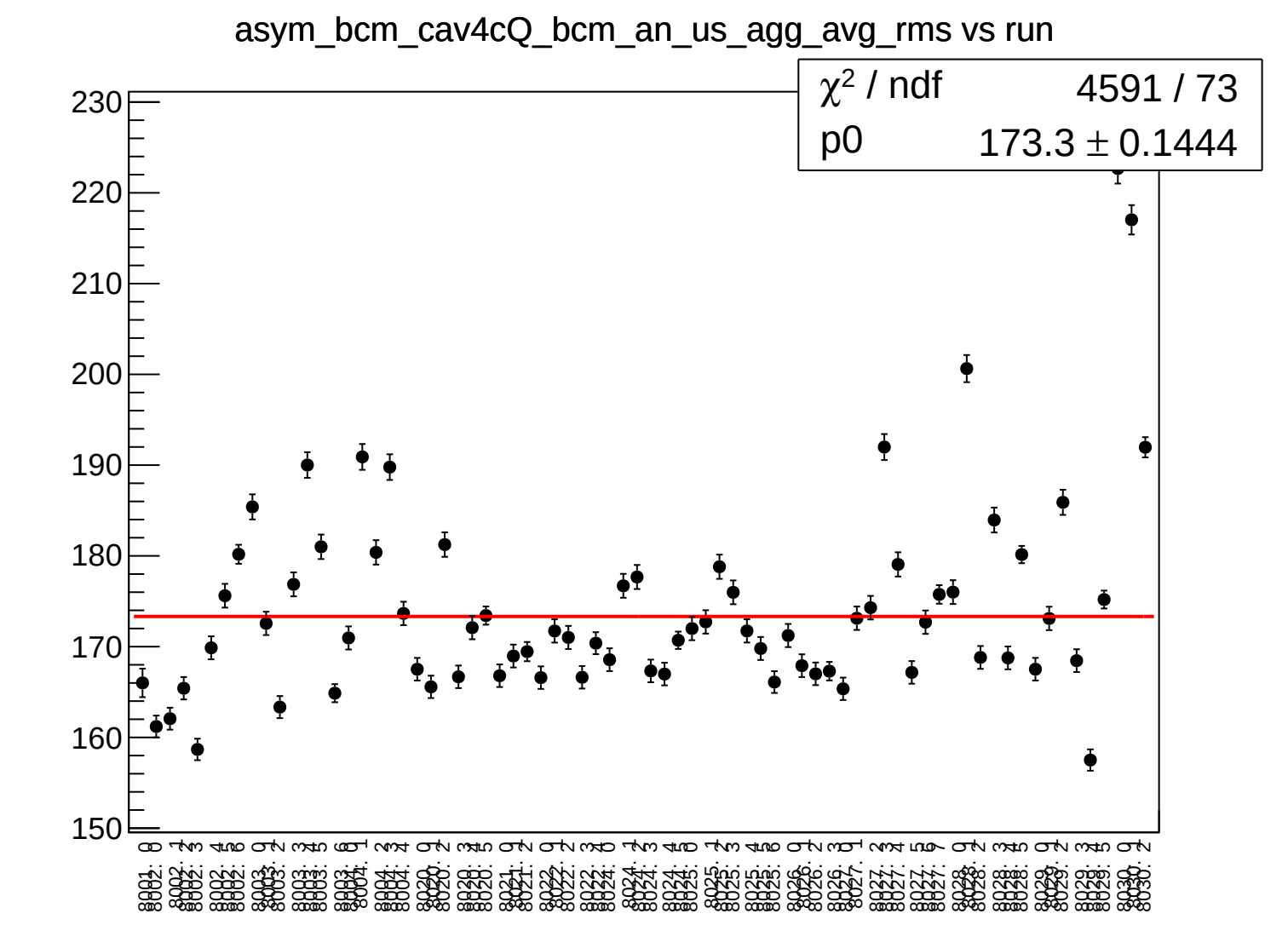

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 87.18 / 73
p0 6.076 ± 27.42
1000
500
0
−500
−1000
pull
Entries 74
Mean −24.75
Std Dev 40.38
2
1
0
−1
−2
−3

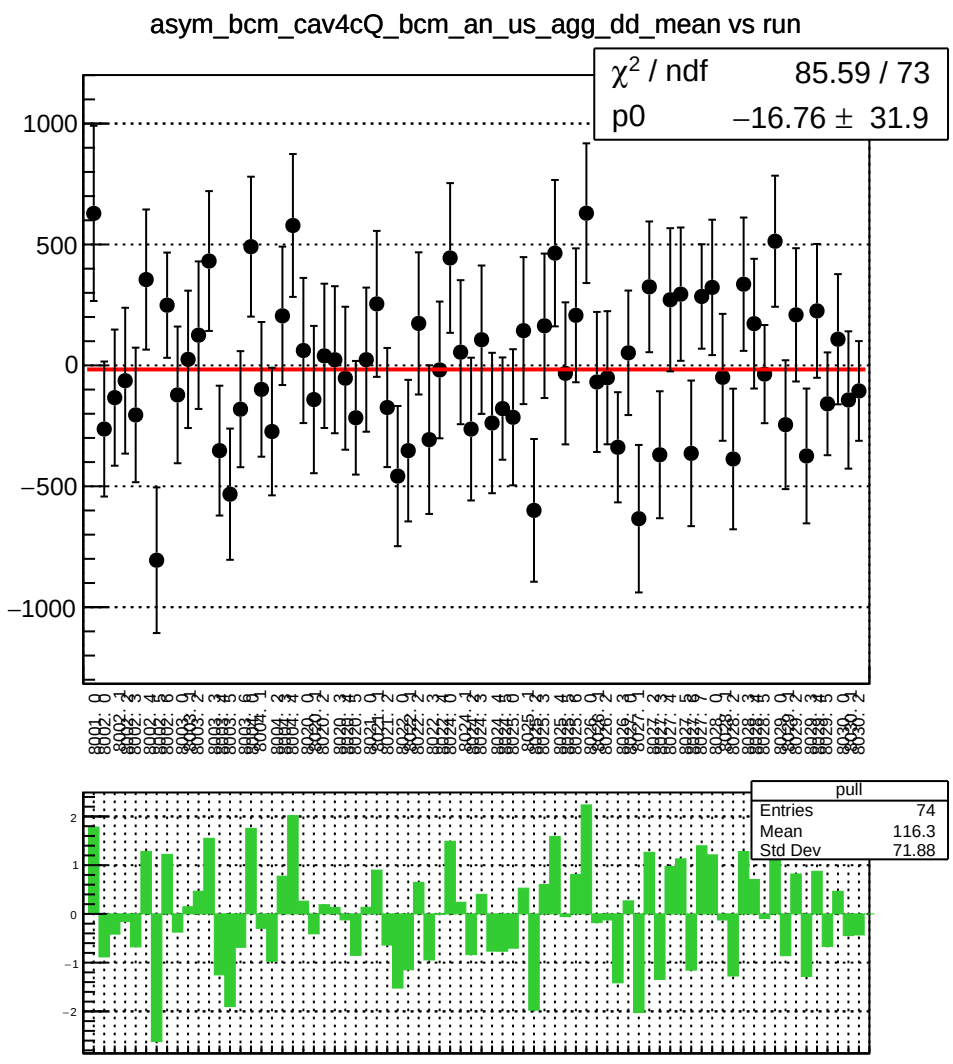

pull1D
Entries 74
Mean 0.01063
Std Dev 1.085
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

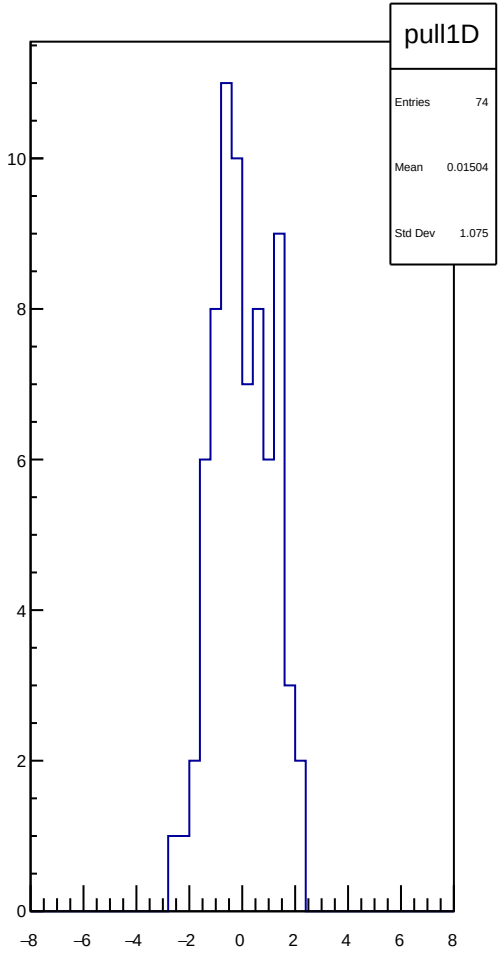

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1719 / 73
p0 23.3 ± 0.01939
25
24.5
24
23.5
23
22.5
22
21.5
21

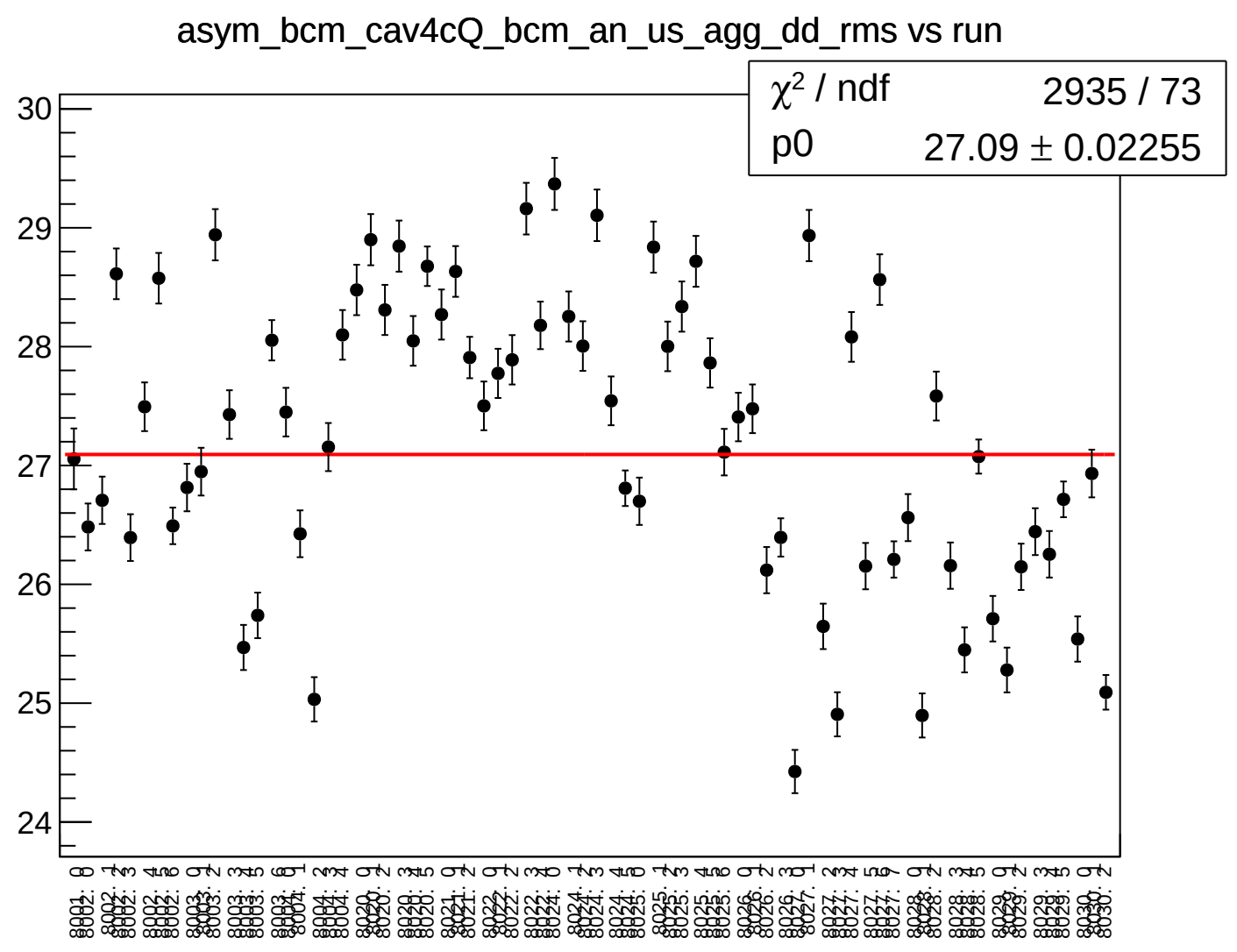

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 20.74 / 73
p0 169 ± 204.2
pull
Entries 74
Mean 908.2
Std Dev 895.8

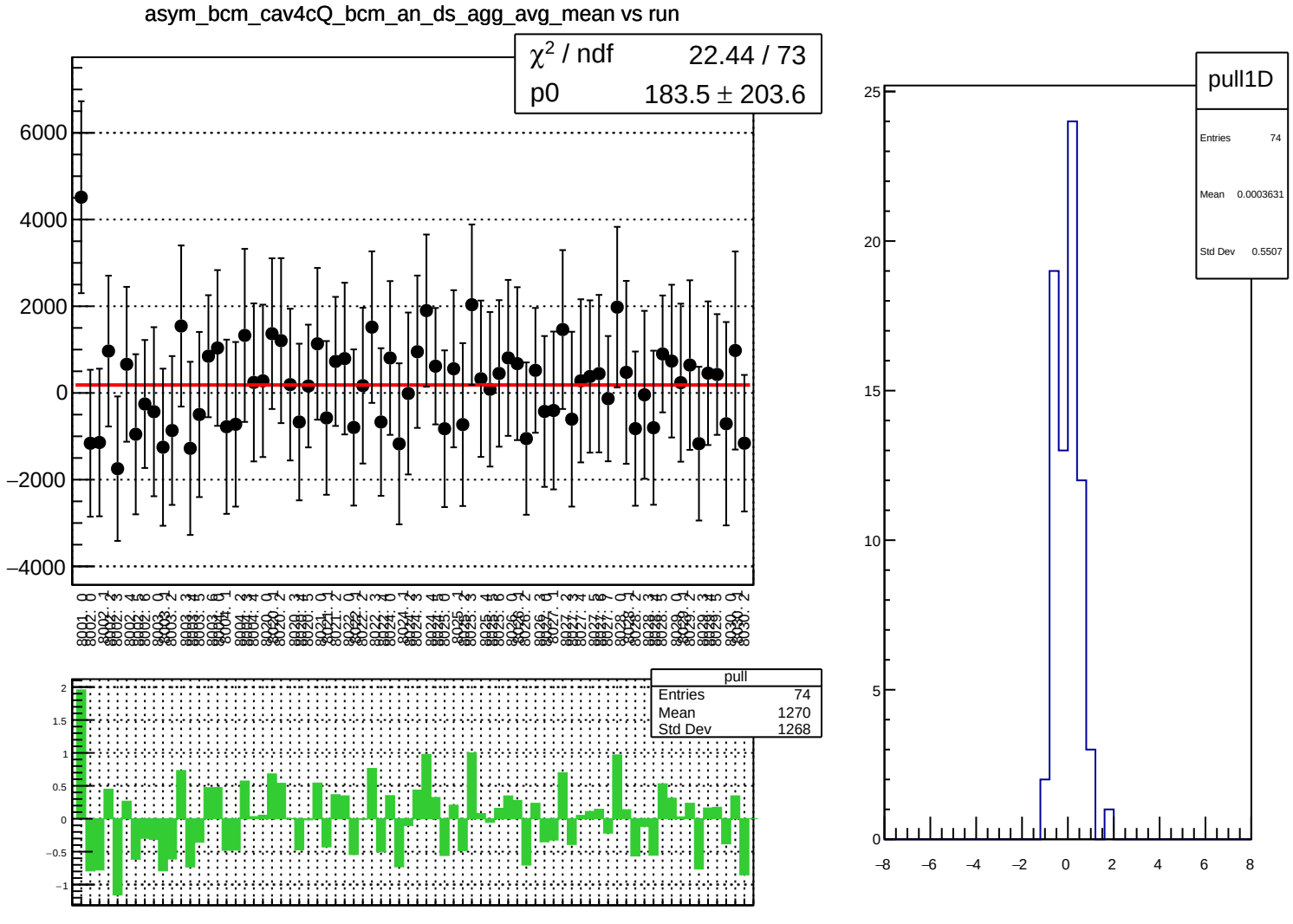

pull1D
Entries 74
Mean 0.0006473
Std Dev 0.5294

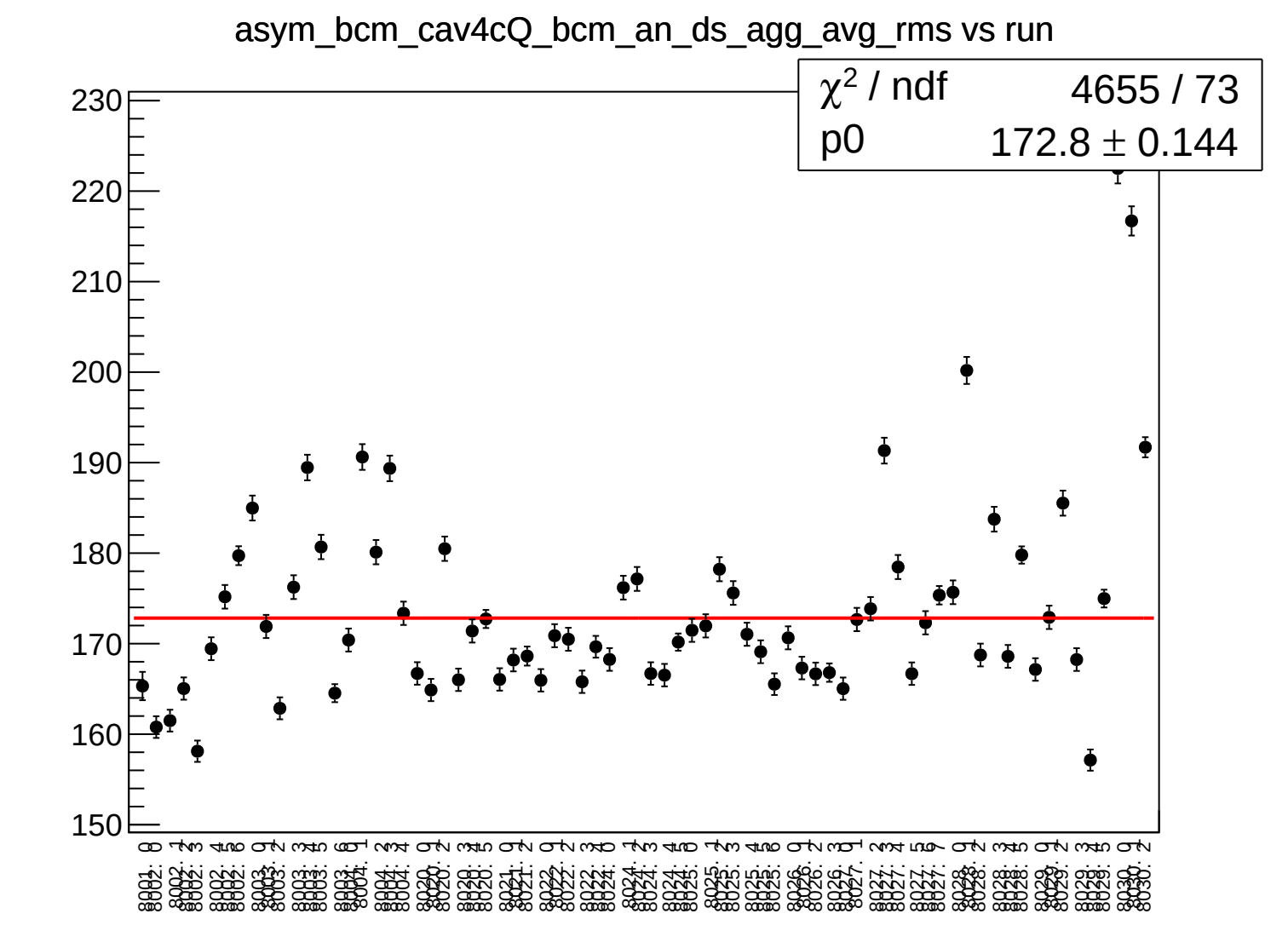

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4591 / 73
p0 173.3 ± 0.1444
230
220
210
200
190
180
170
160
150

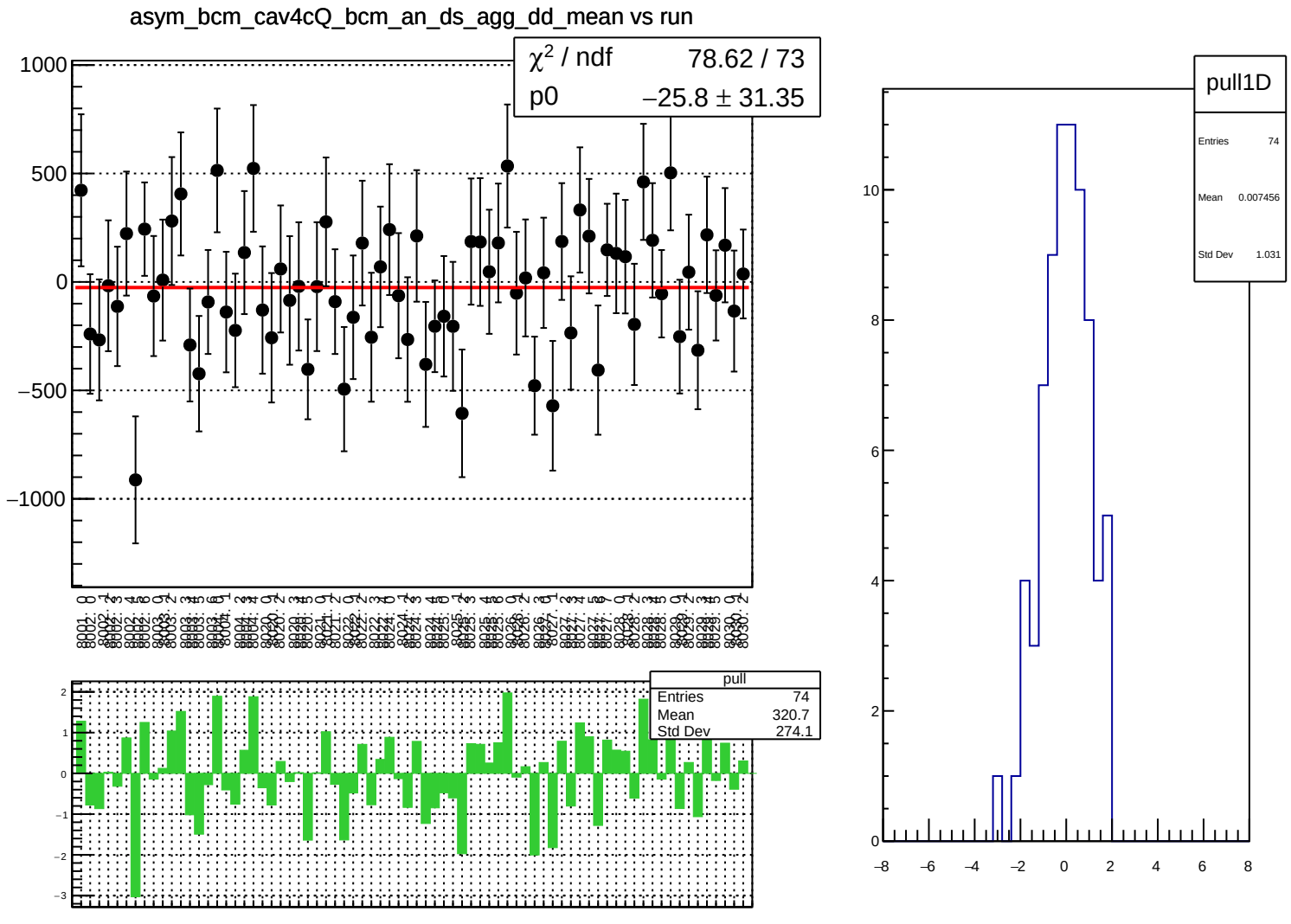

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 85.59 / 73
p0 −16.76 ± 31.9
pull
Entries 74
Mean 116.3
Std Dev 71.88

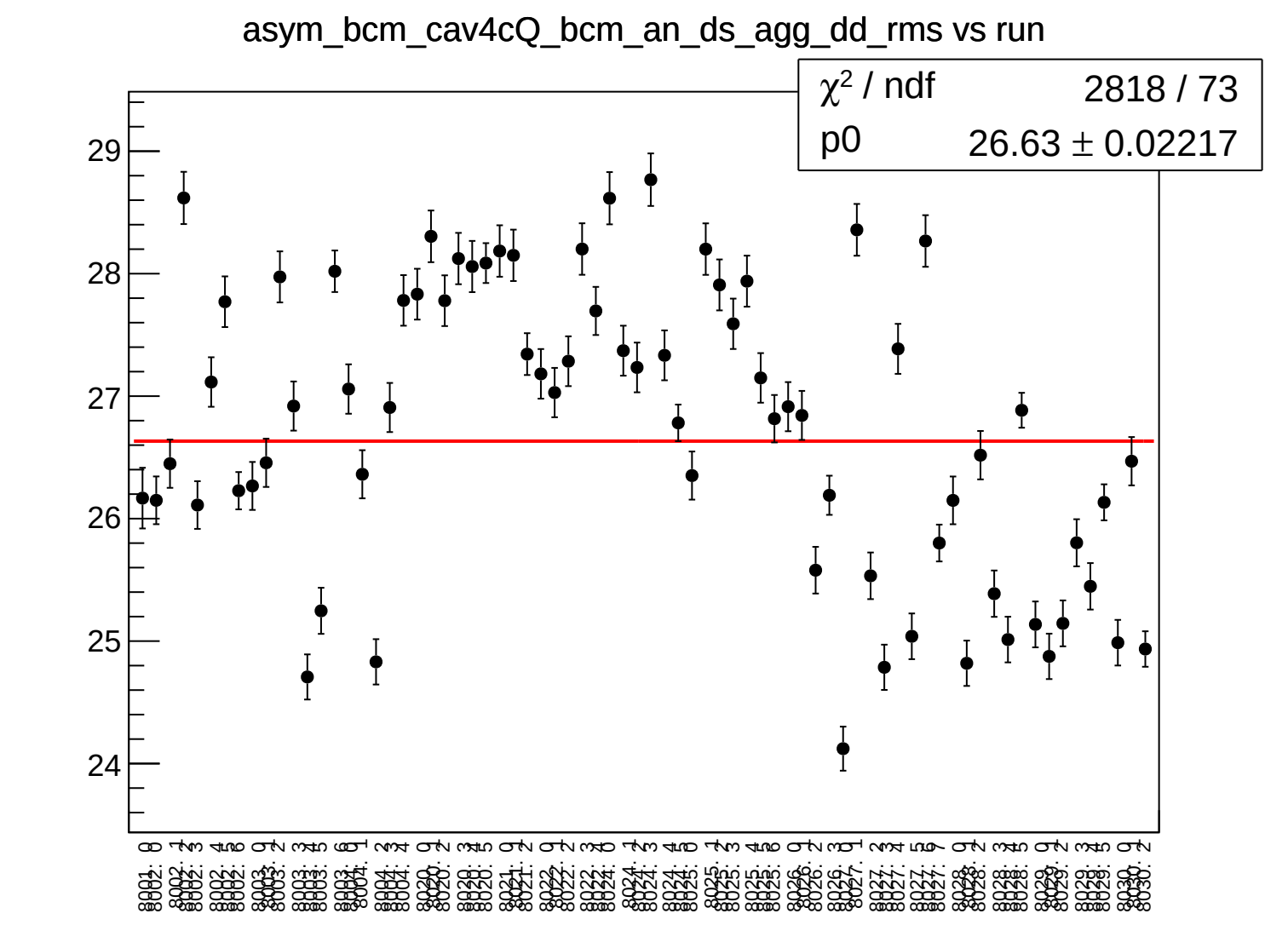

pull1D
Entries 74
Mean 0.01504
Std Dev 1.075

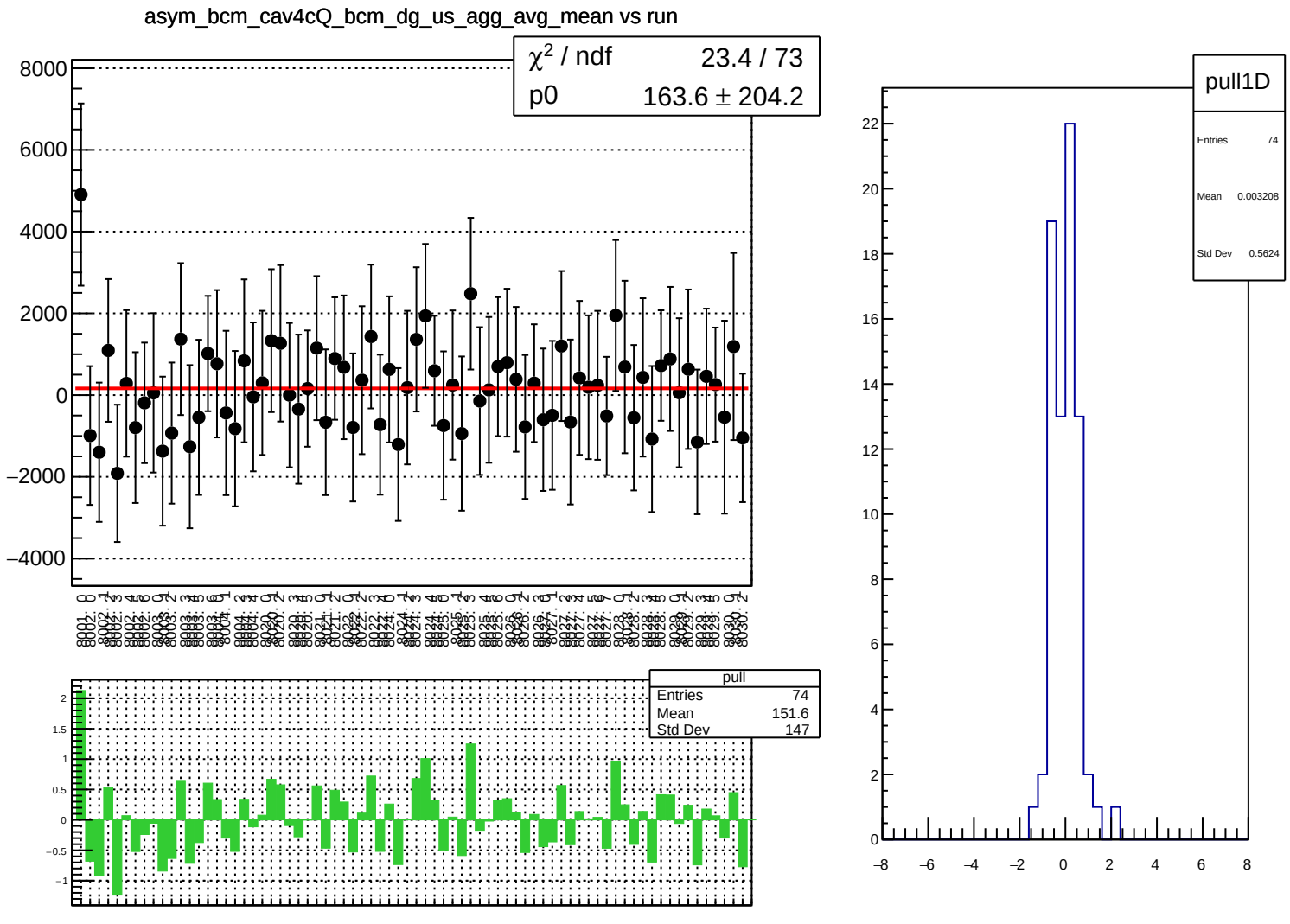

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2935 / 73
p0 27.09 ± 0.02255
30
29
28
27
26
25
24

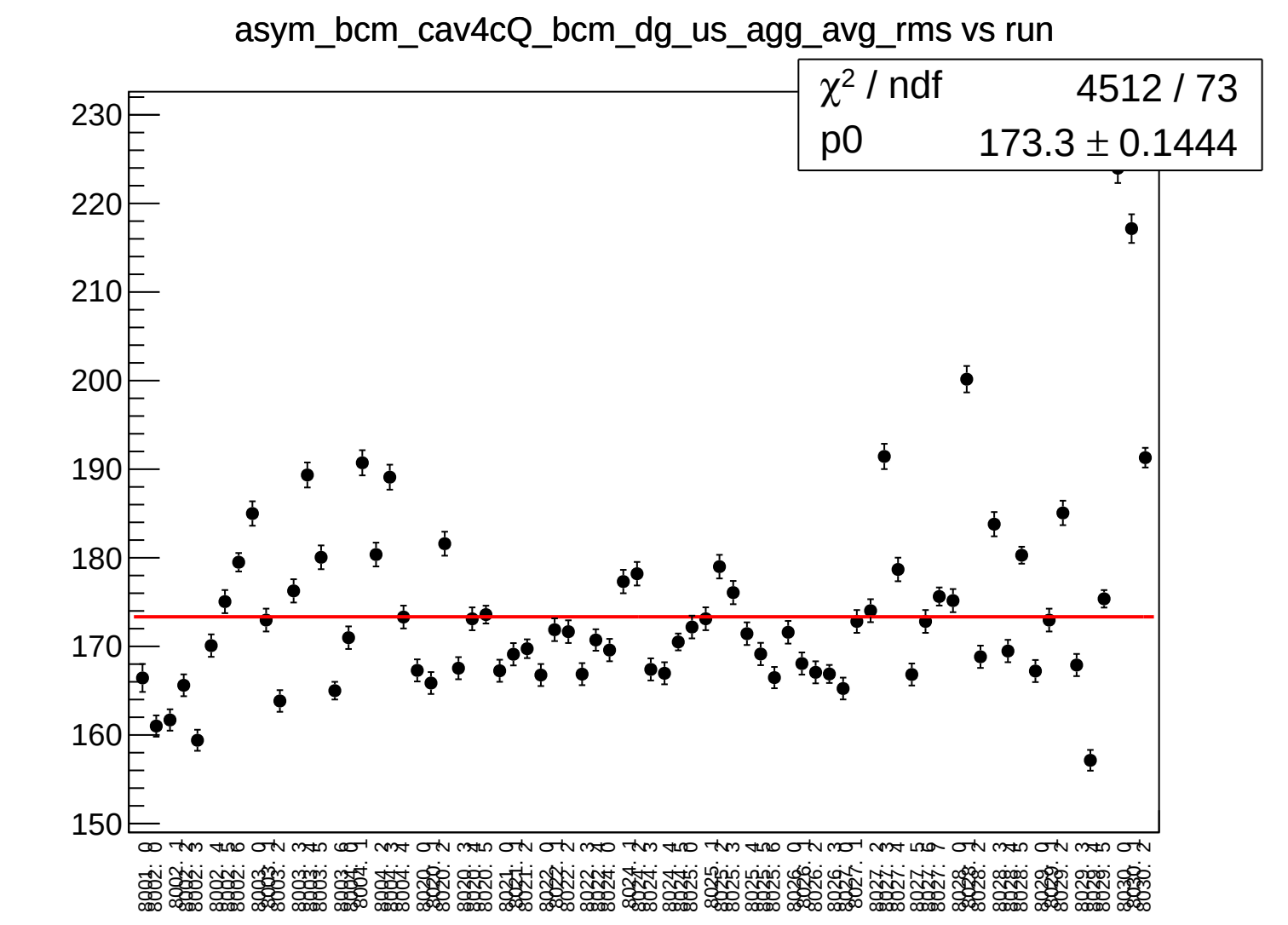

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 22.44 / 73
p0 183.5 ± 203.6
pull
Entries 74
Mean 1270
Std Dev 1268
pull1D
Entries 74
Mean 0.0003631
Std Dev 0.5507

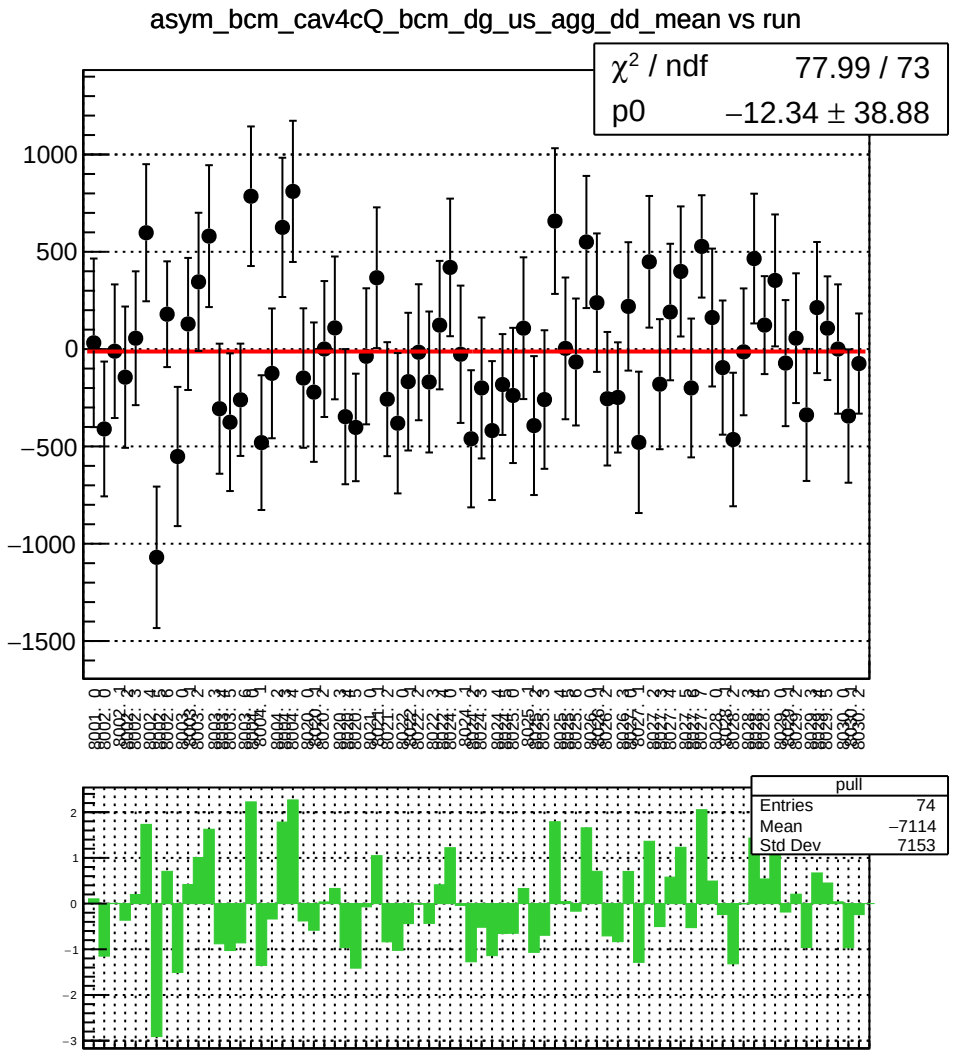

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4655 / 73
p0 172.8 ± 0.144
230
220
210
200
190
180
170
160
150

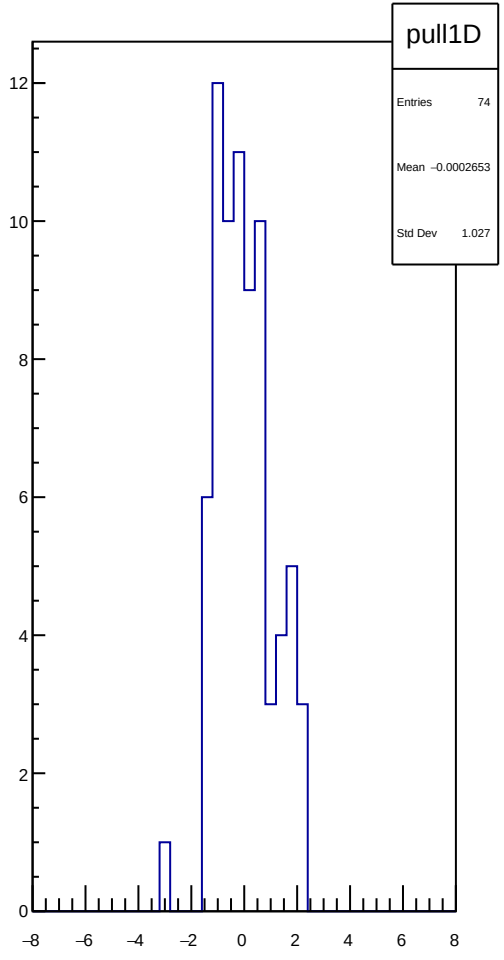

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.62 / 73
p0 −25.8 ± 31.35
1000
500
0
−500
−1000
pull
Entries 74
Mean 320.7
Std Dev 274.1
pull1D
Entries 74
Mean 0.007456
Std Dev 1.031

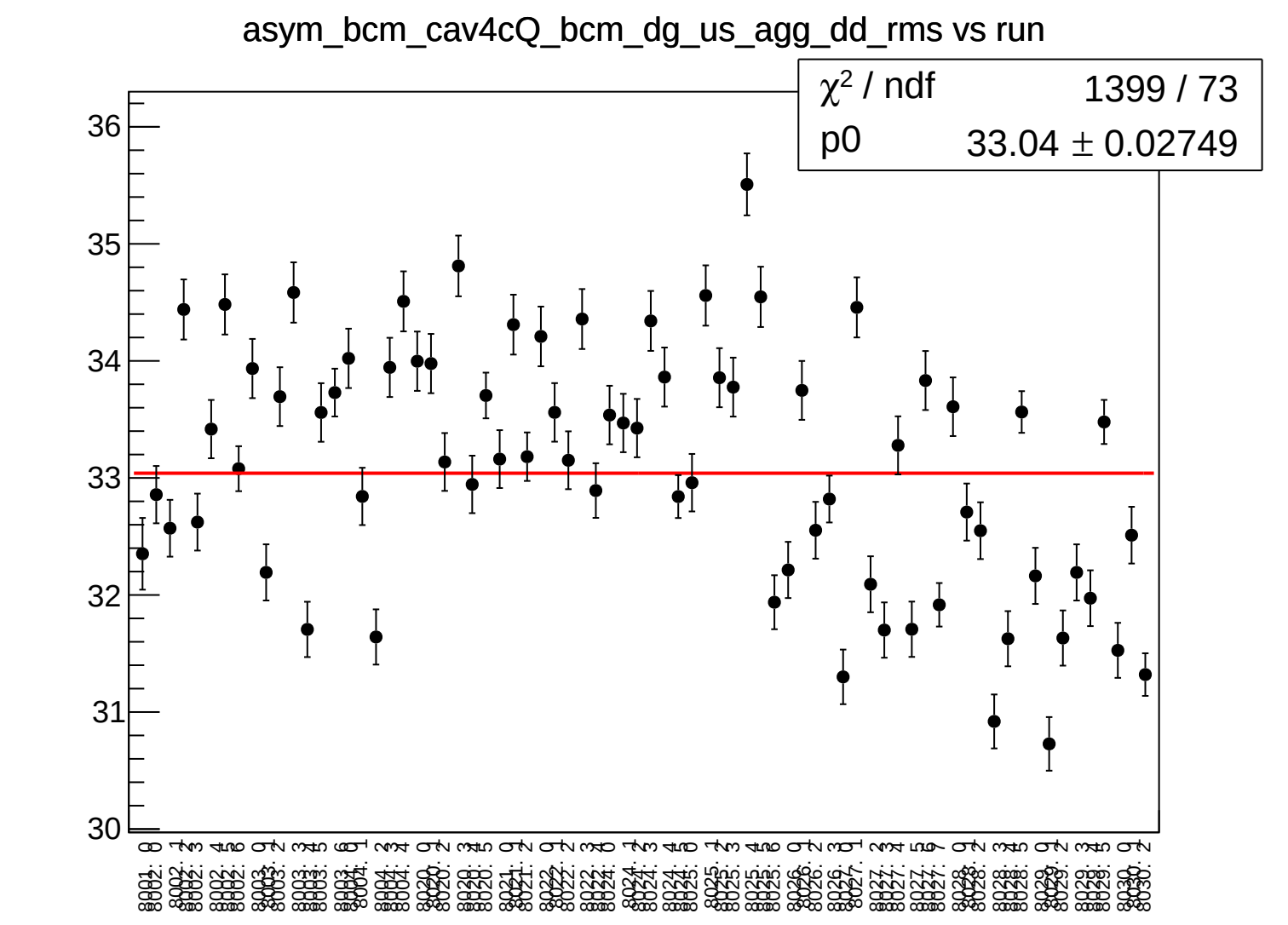

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2818 / 73
p0 26.63 ± 0.02217
29
28
27
26
25
24

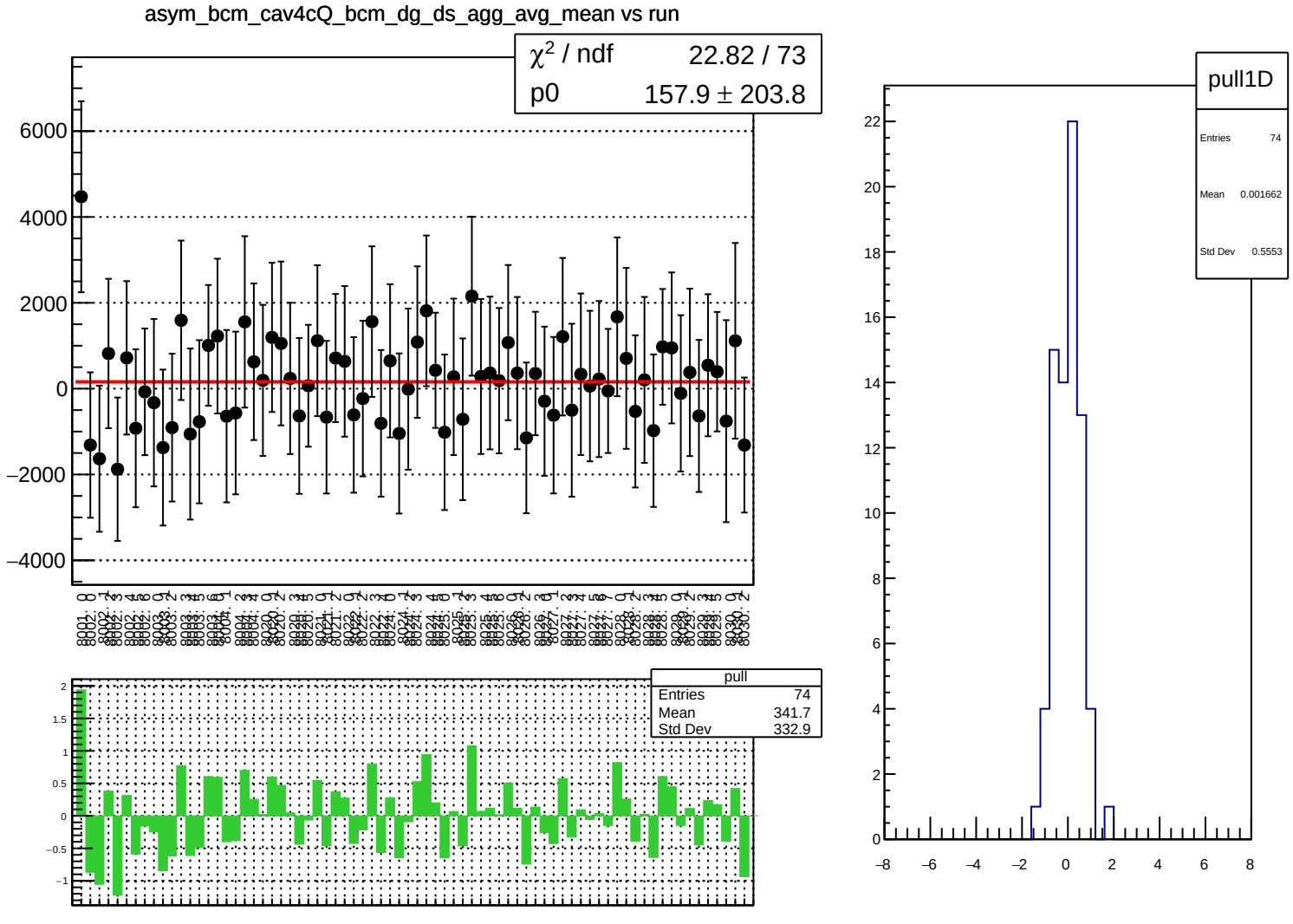

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 23.4 / 73
p0 163.6 ± 204.2
pull
Entries 74
Mean 151.6
Std Dev 147
pull1D
Entries 74
Mean 0.003208
Std Dev 0.5624

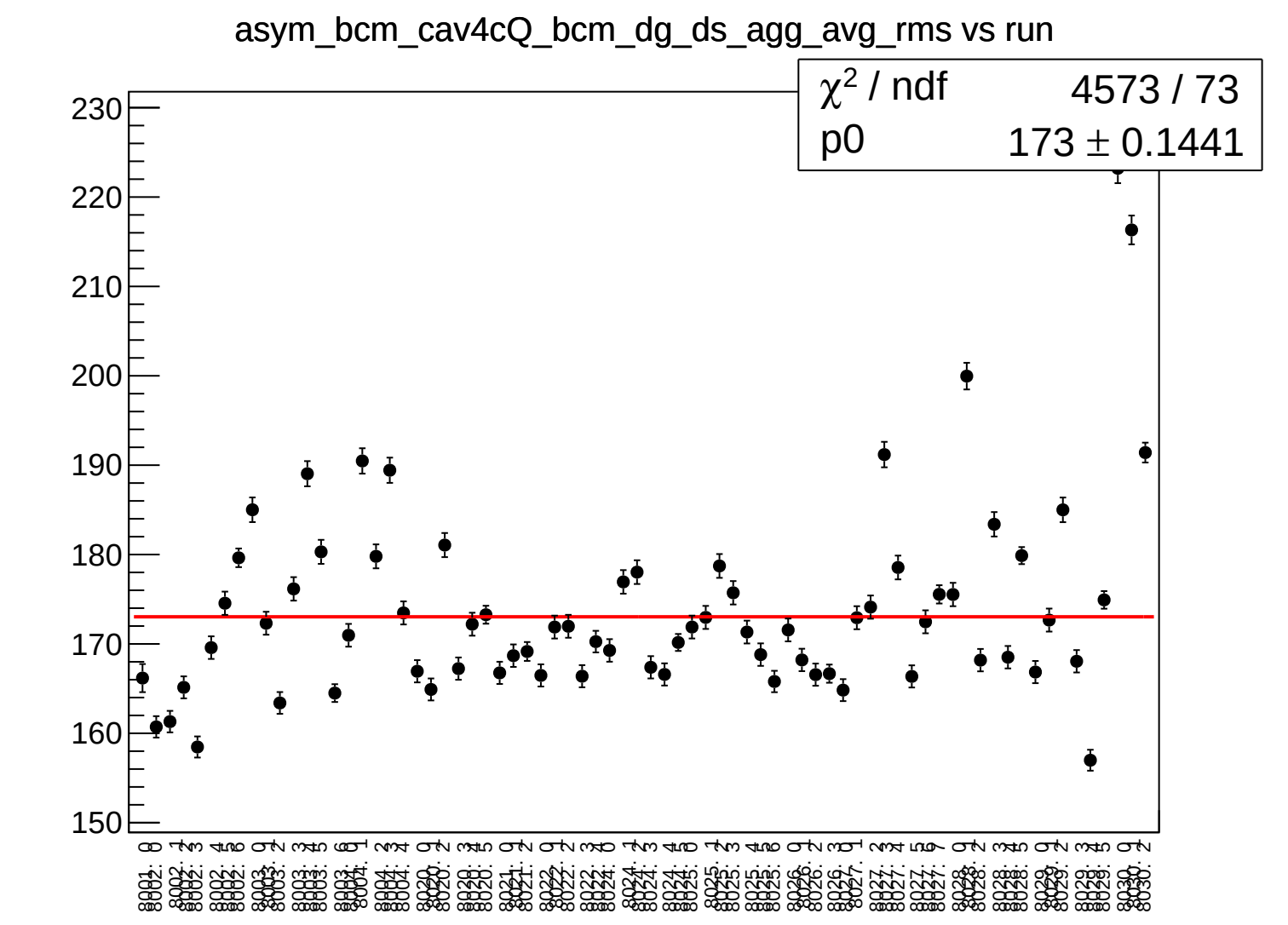

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4512 / 73
p0 173.3 ± 0.1444
230
220
210
200
190
180
170
160
150

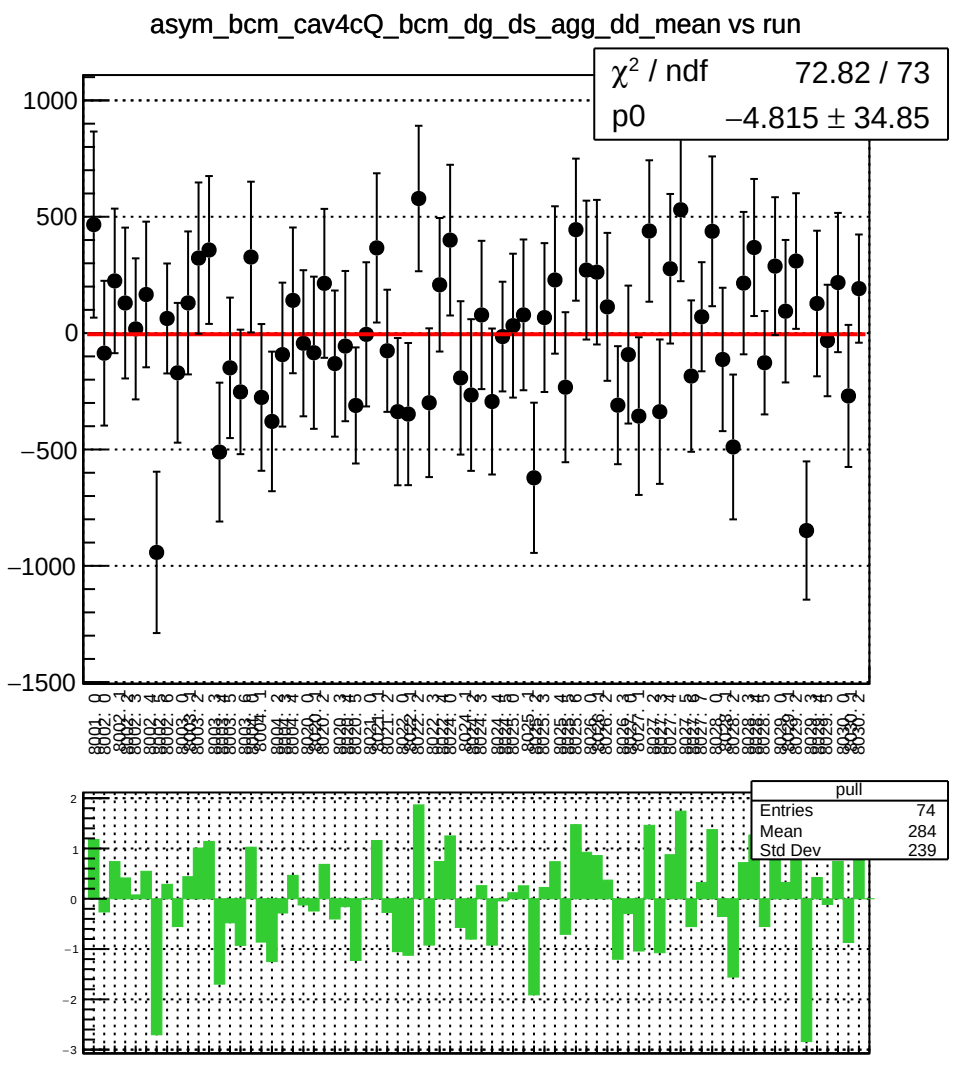

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 77.99 / 73
p0 −12.34 ± 38.88
1000
500
0
−500
−1000
−1500
pull
Entries 74
Mean −7114
Std Dev 7153
2
1
0
−1
−2
−3

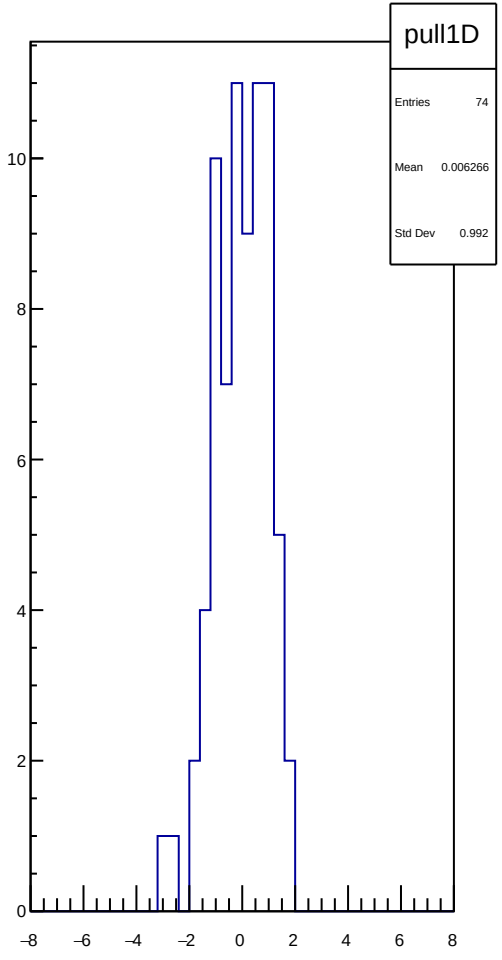

pull1D
Entries 74
Mean −0.0002653
Std Dev 1.027
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

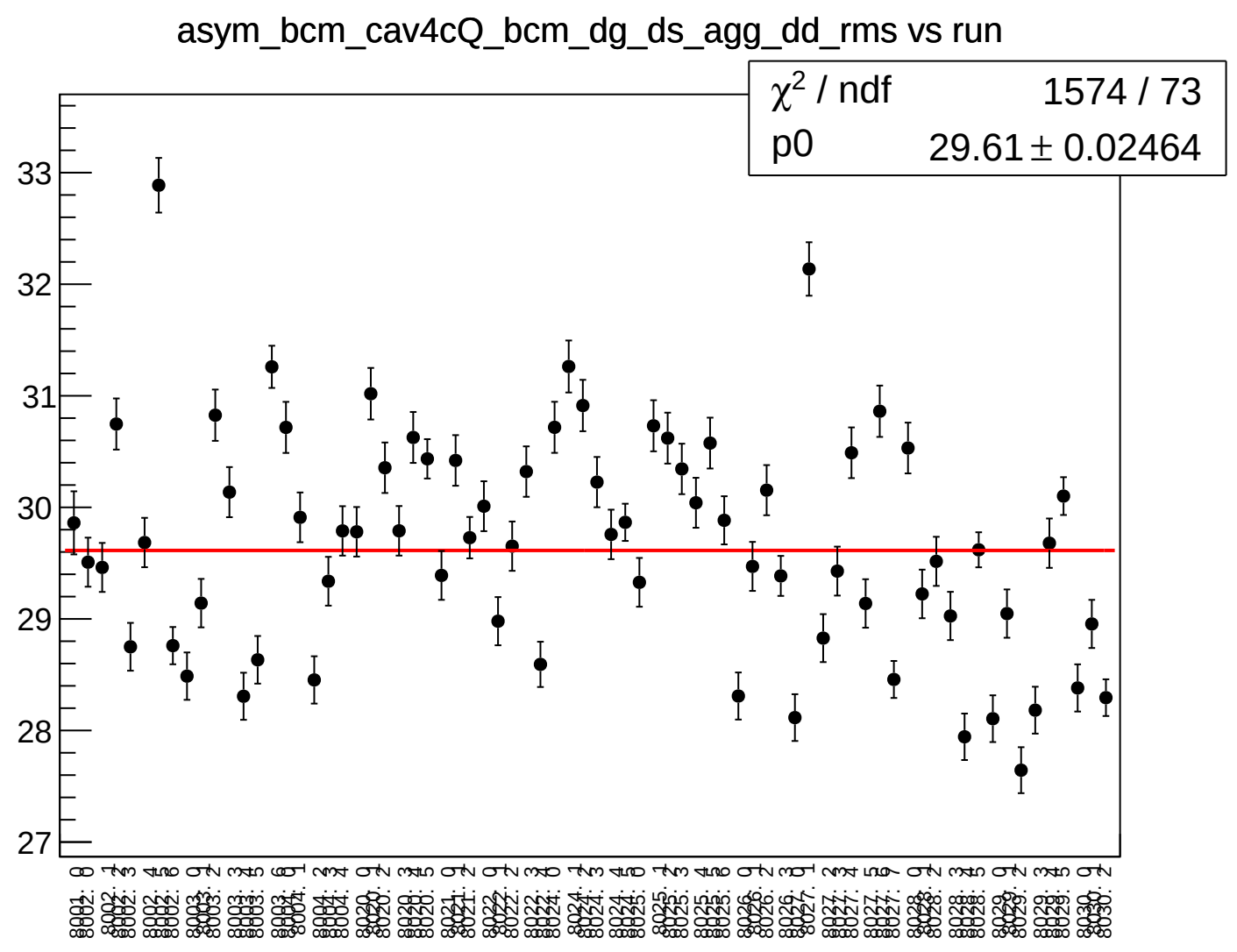

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1399 / 73
p0 33.04 ± 0.02749
36
35
34
33
32
31
30

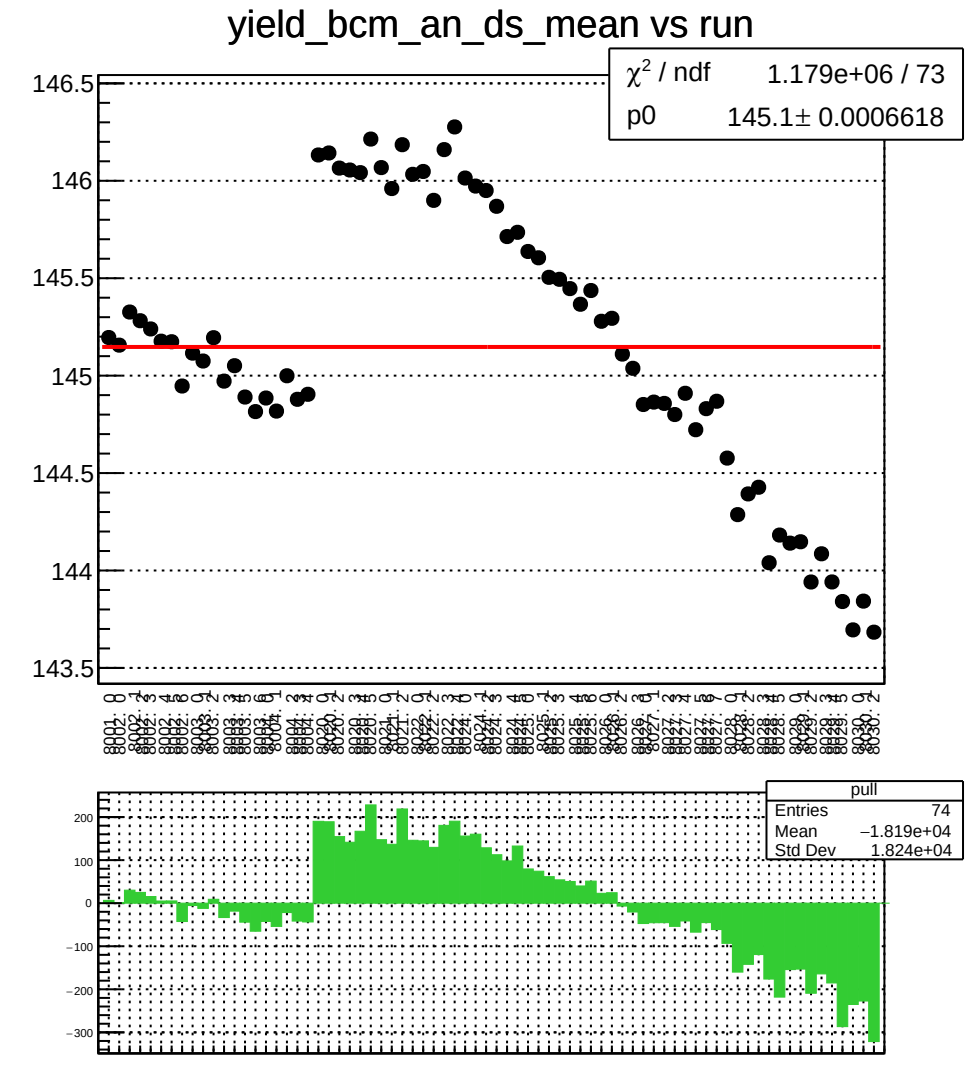

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 22.82 / 73
p0 157.9 ± 203.8
pull
Entries 74
Mean 341.7
Std Dev 332.9
pull1D
Entries 74
Mean 0.001662
Std Dev 0.5553

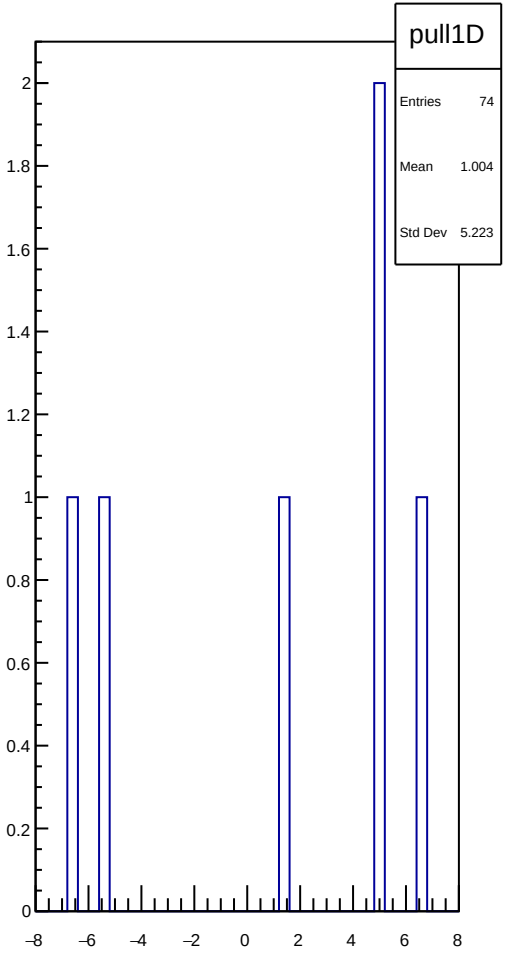

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4573 / 73
p0 173 ± 0.1441
230
220
210
200
190
180
170
160
150

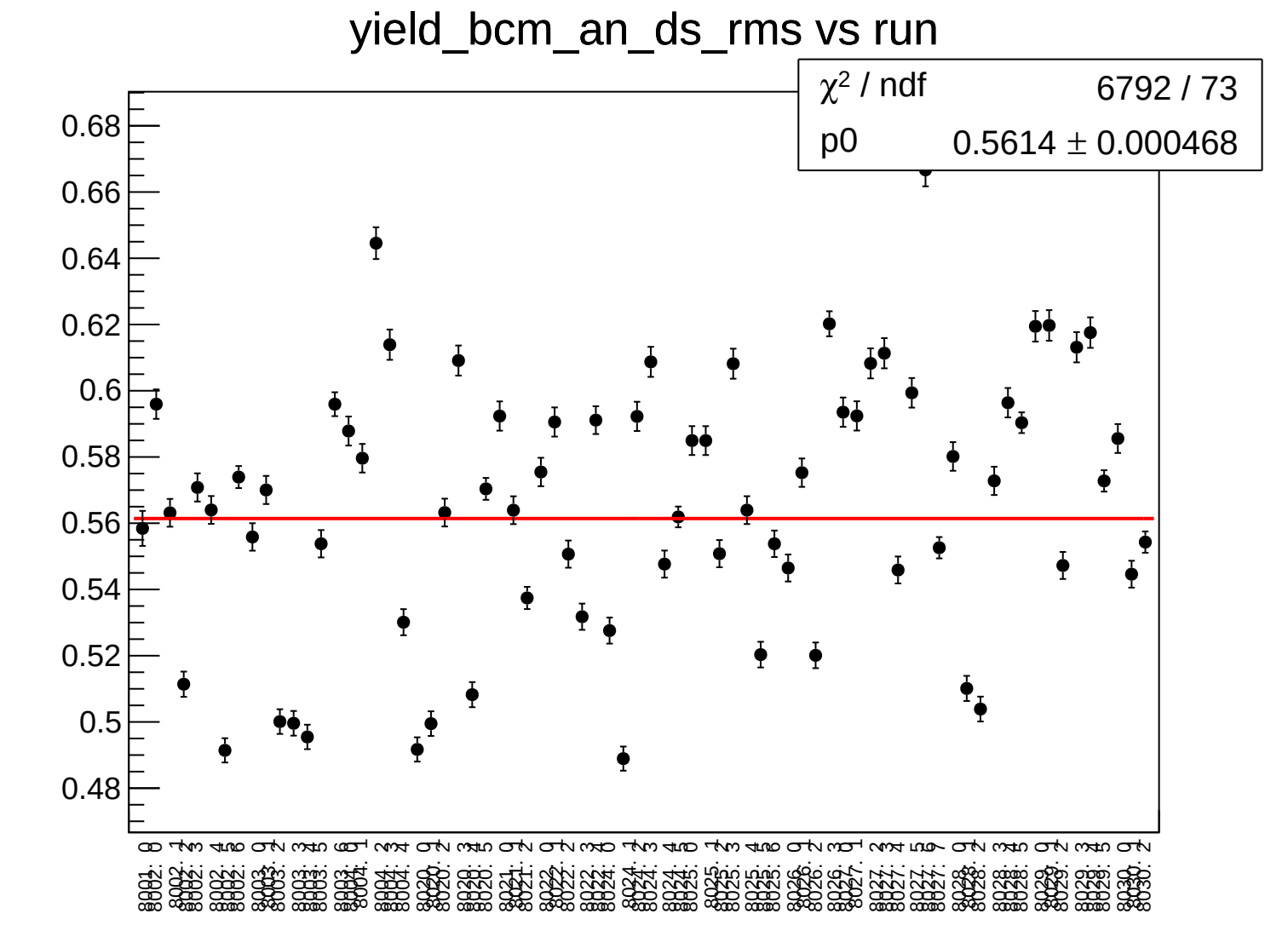

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 72.82 / 73
p0 −4.815 ± 34.85
pull
Entries 74
Mean 284
Std Dev 239

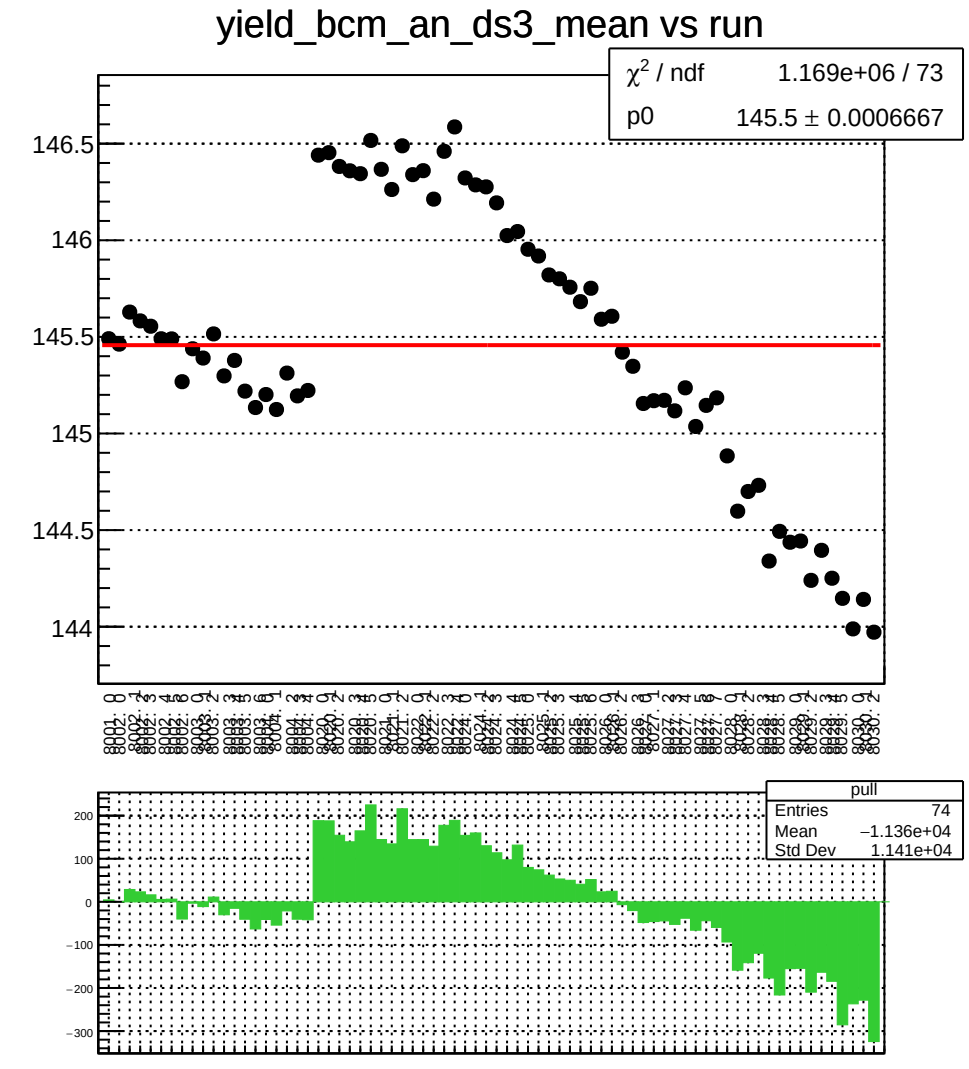

pull1D
Entries 74
Mean 0.006266
Std Dev 0.992

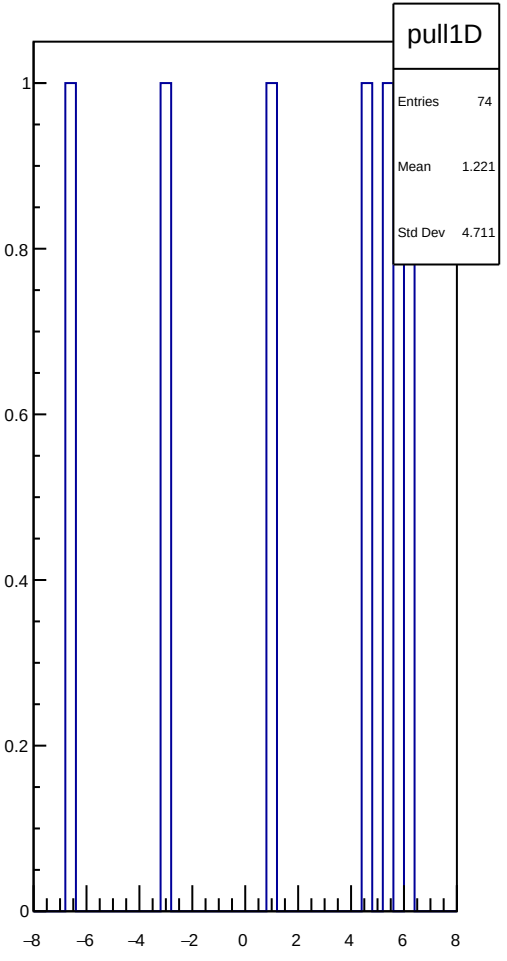

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1574 / 73
p0 29.61 ± 0.02464
33
32
31
30
29
28
27

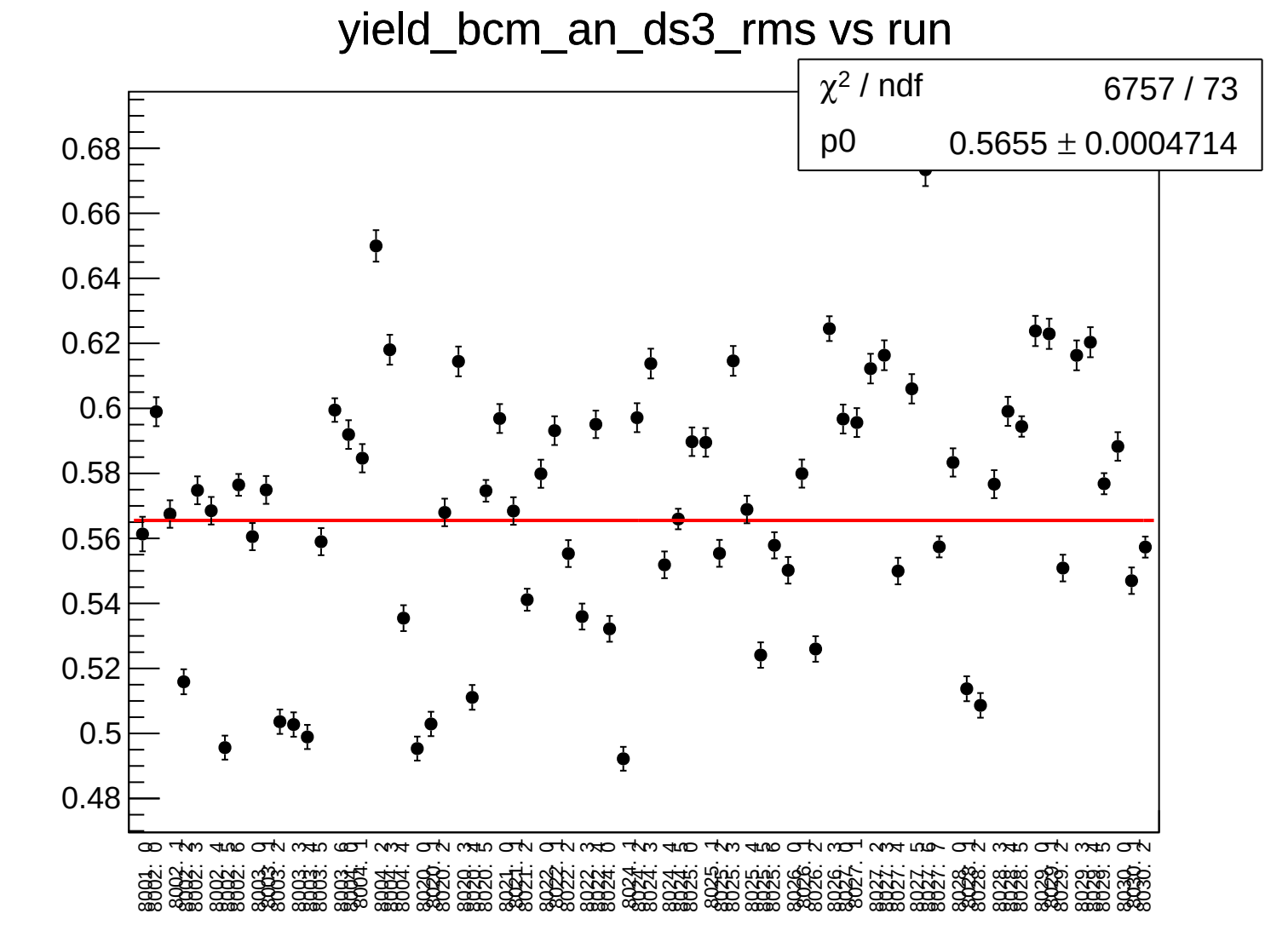

yield_bcm_an_ds_mean vs run
χ² / ndf 1.179e+06 / 73
p0 145.1± 0.0006618
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 74
Mean −1.819e+04
Std Dev 1.824e+04
200
100
0
−100
−200
−300

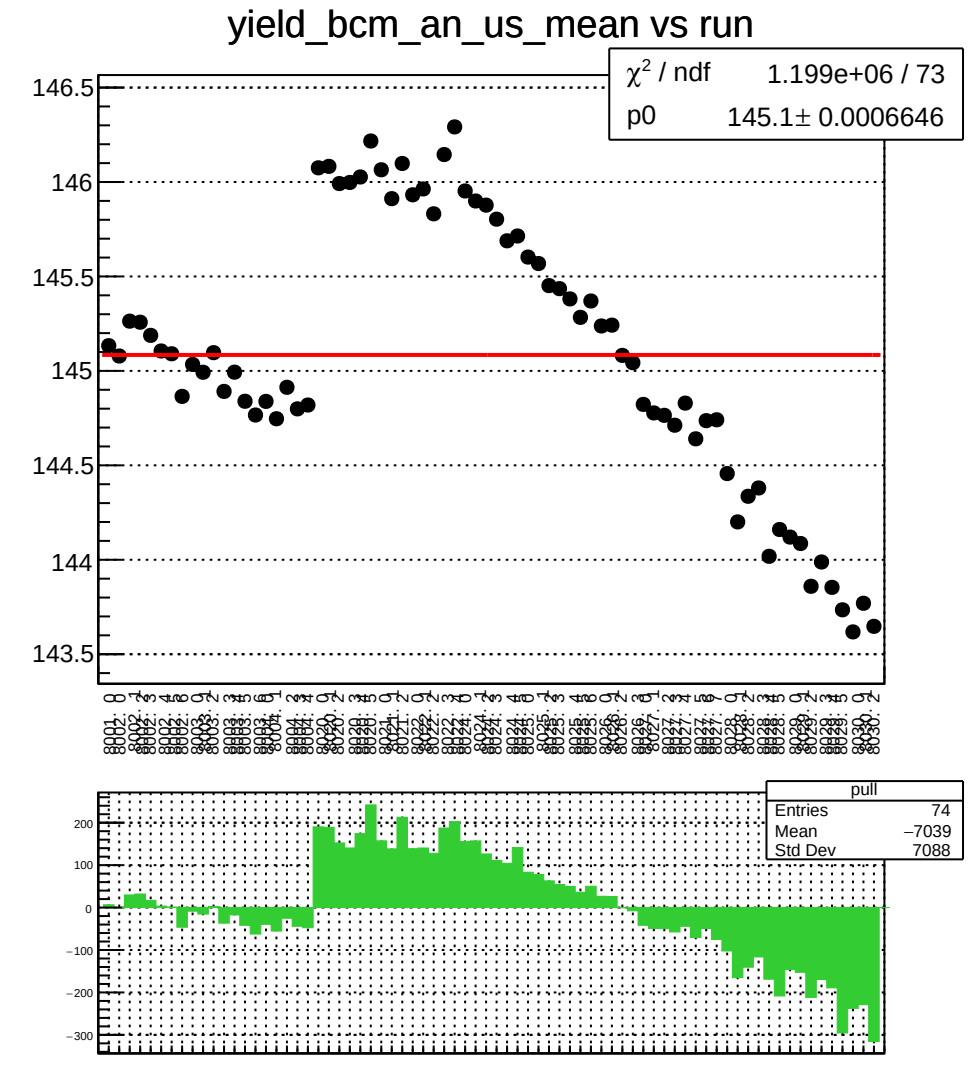

pull1D
Entries 74
Mean 1.004
Std Dev 5.223
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

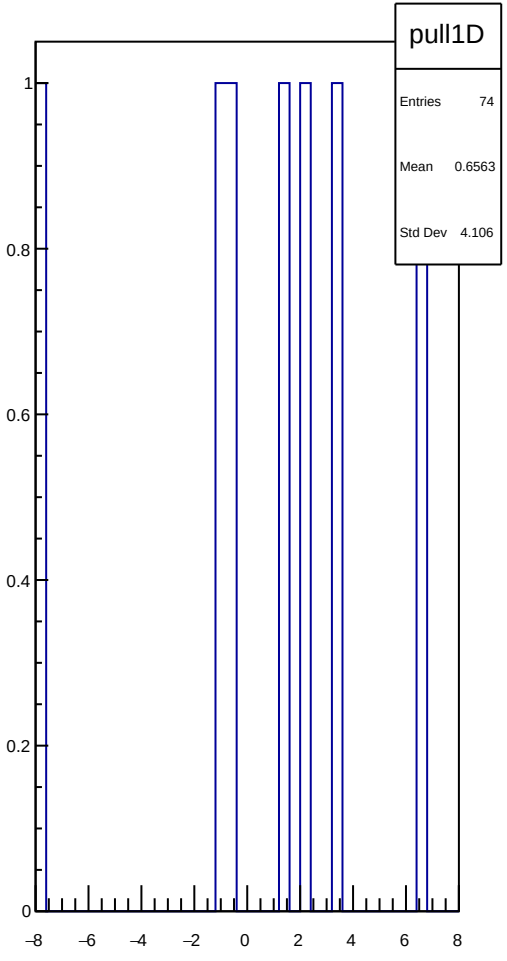

yield_bcm_an_ds_rms vs run
χ² / ndf 6792 / 73
p0 0.5614 ± 0.000468
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

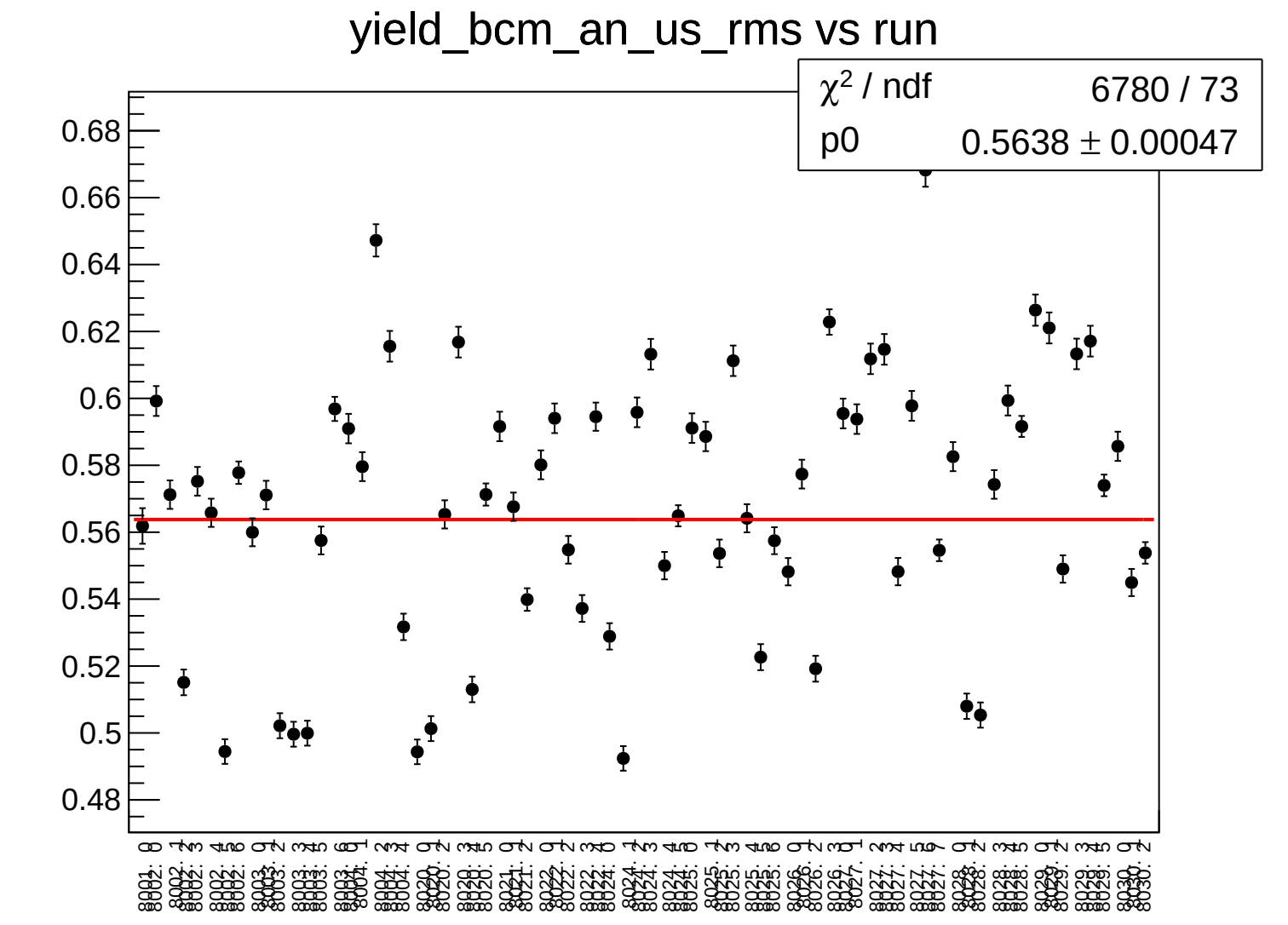

yield_bcm_an_ds3_mean vs run
χ² / ndf 1.169e+06 / 73
p0 145.5 ± 0.0006667
146.5
146
145.5
145
144.5
144
pull
Entries 74
Mean −1.136e+04
Std Dev 1.141e+04
200
100
0
−100
−200
−300

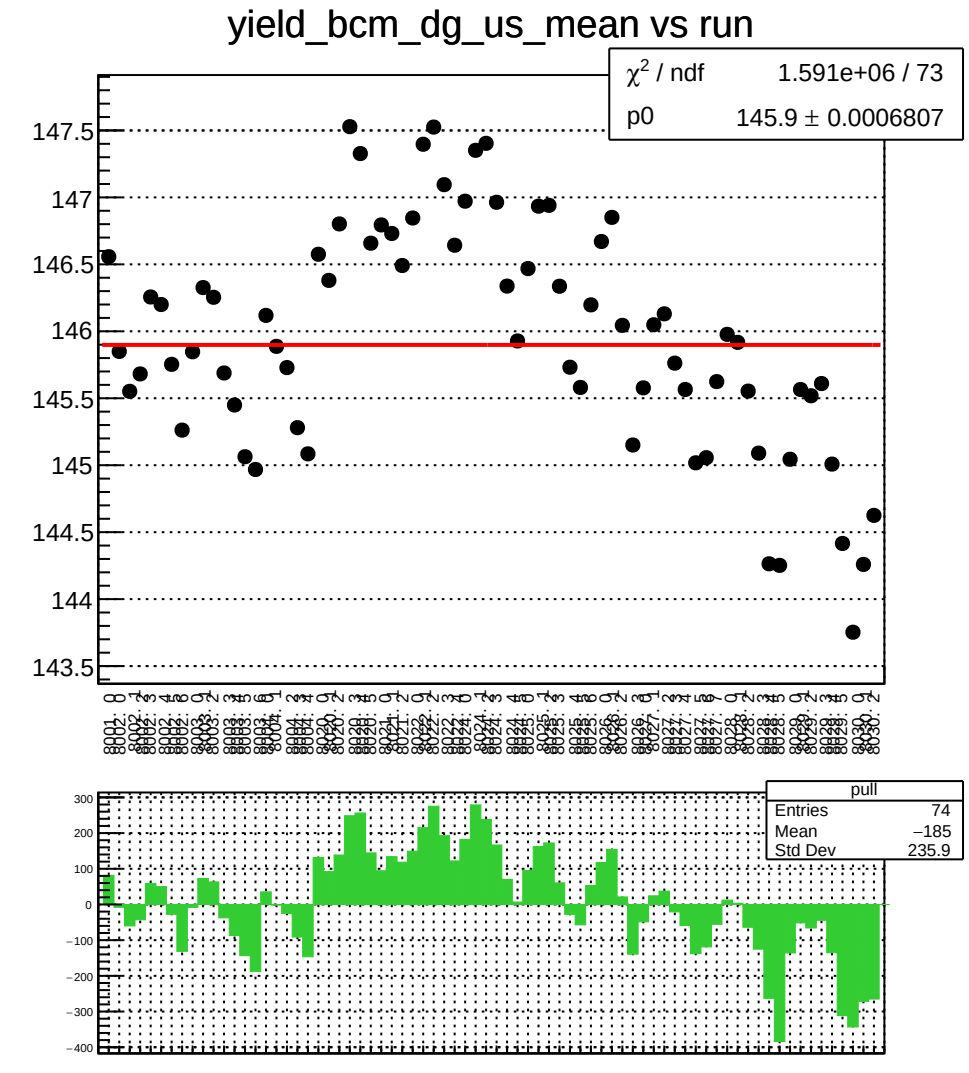

pull1D
Entries 74
Mean 1.221
Std Dev 4.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

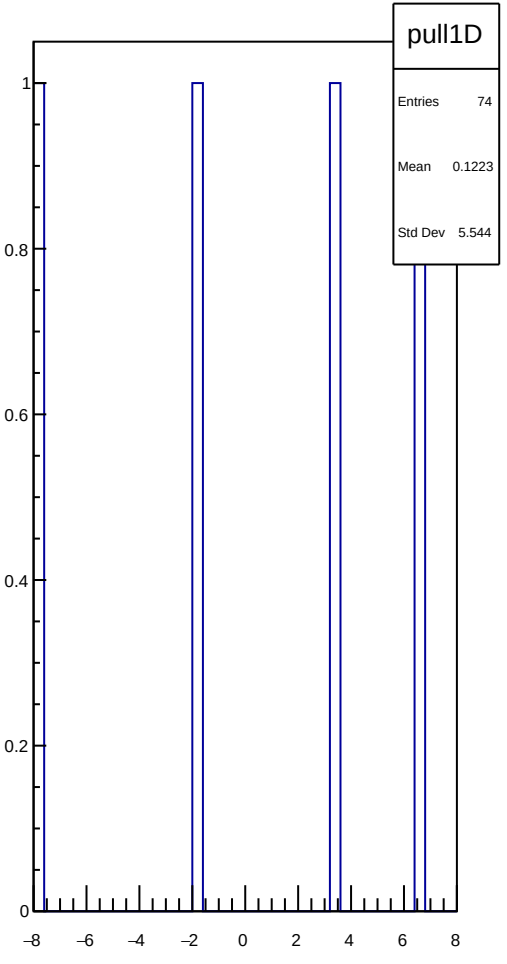

yield_bcm_an_ds3_rms vs run
χ² / ndf 6757 / 73
p0 0.5655 ± 0.0004714
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

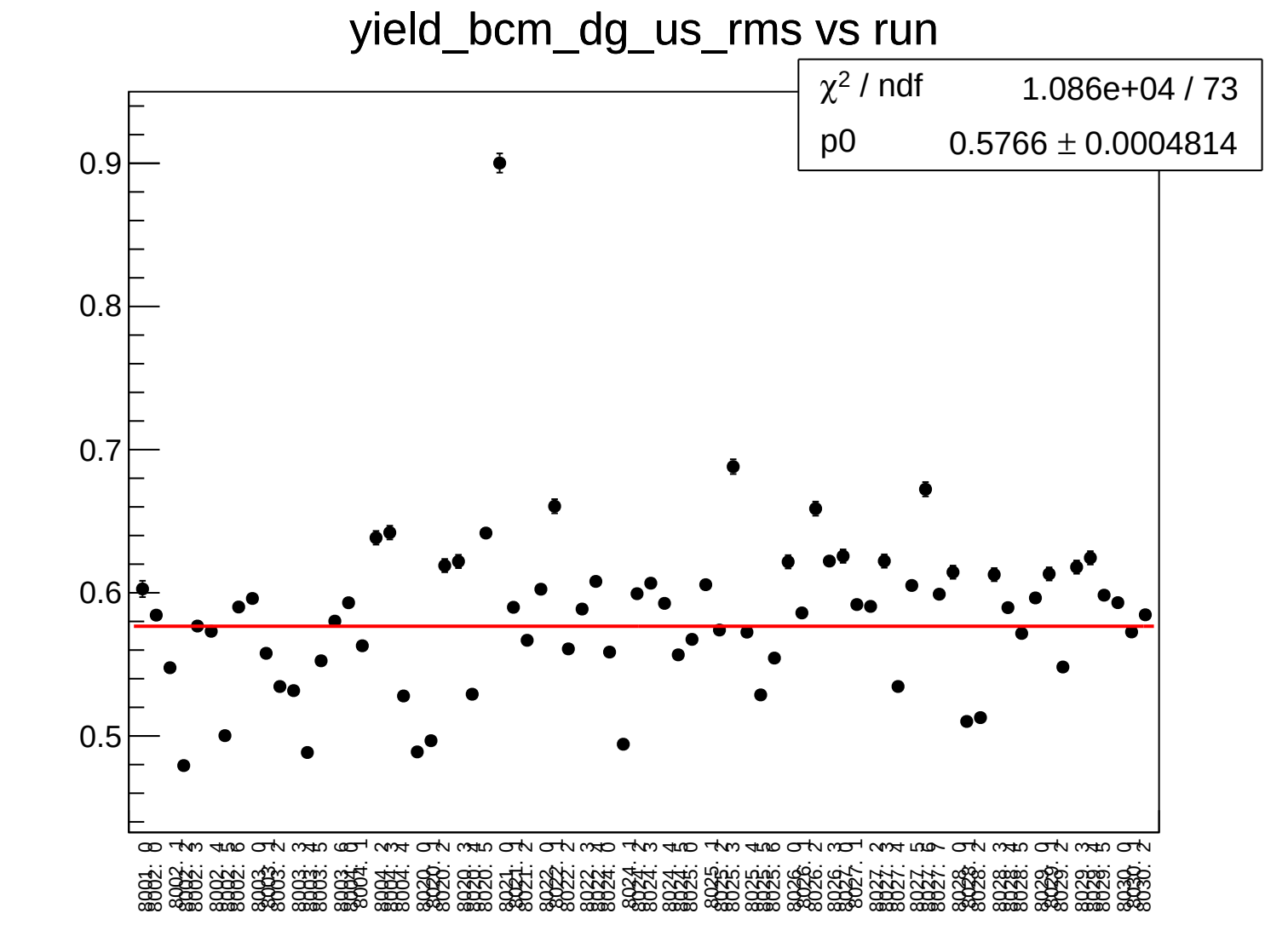

yield_bcm_an_us_mean vs run
χ² / ndf 1.199e+06 / 73
p0 145.1± 0.0006646
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 74
Mean −7039
Std Dev 7088
200
100
0
−100
−200
−300

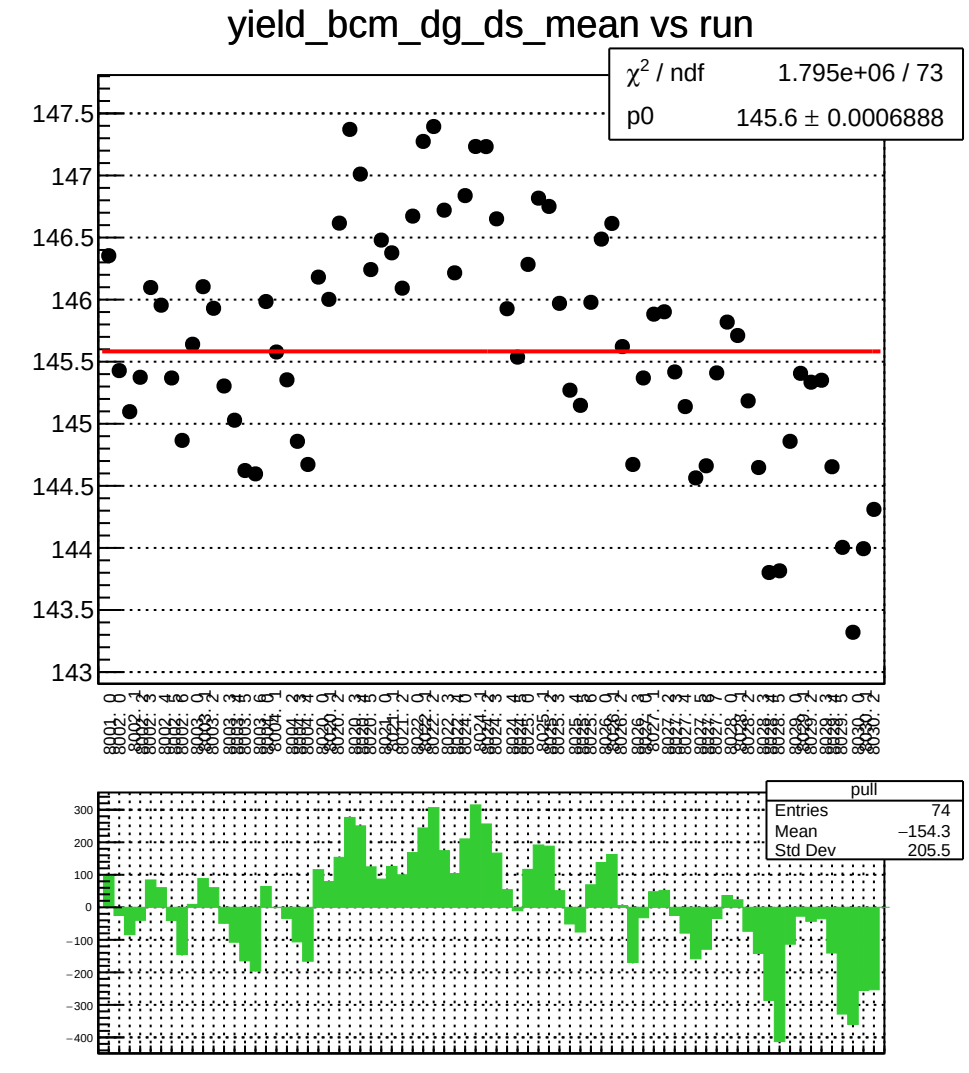

pull1D
Entries 74
Mean 0.6563
Std Dev 4.106
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

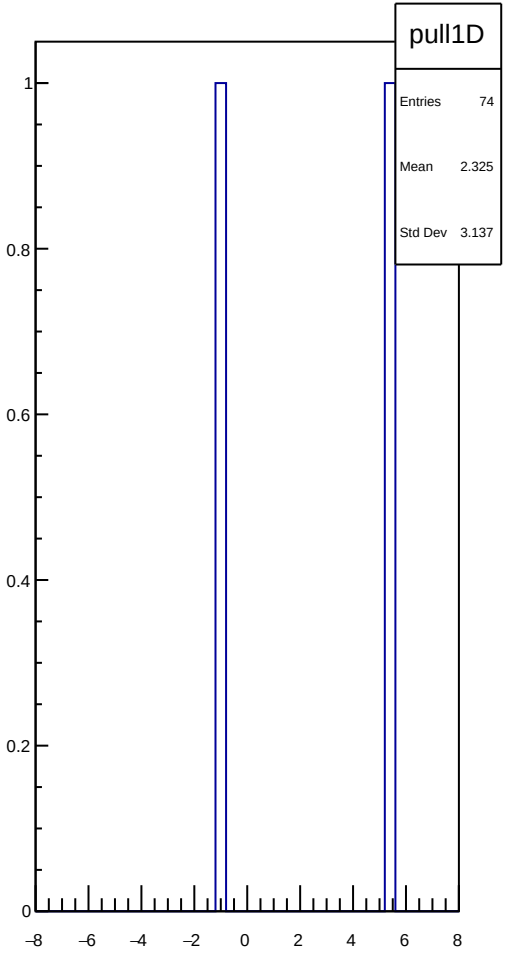

yield_bcm_an_us_rms vs run
χ^2 / ndf 6780 / 73
p0 0.5638 ± 0.00047
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5
0.48

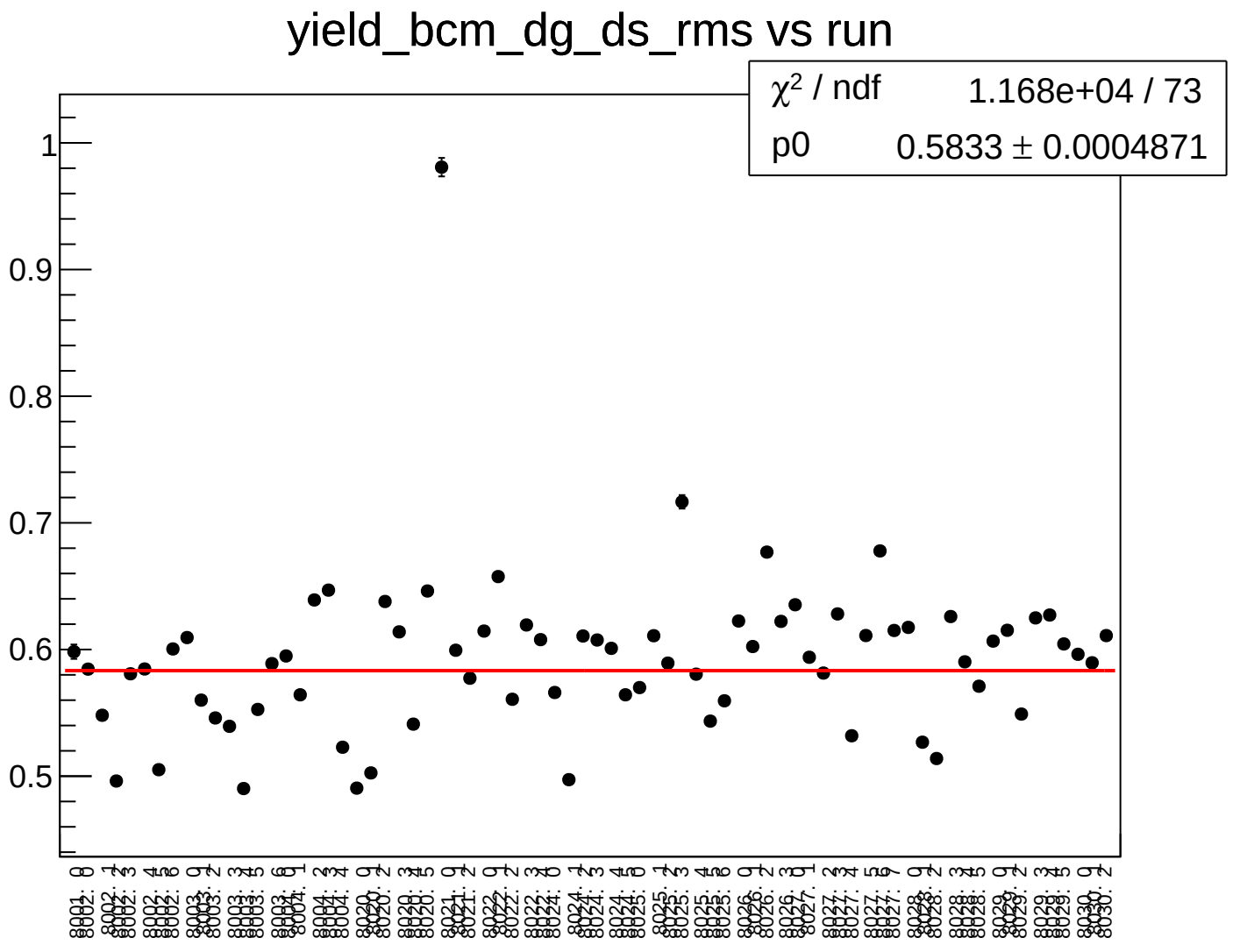

yield_bcm_dg_us_mean vs run
χ² / ndf 1.591e+06 / 73
p0 145.9 ± 0.0006807
147.5
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 74
Mean −185
Std Dev 235.9
300
200
100
0
−100
−200
−300
−400

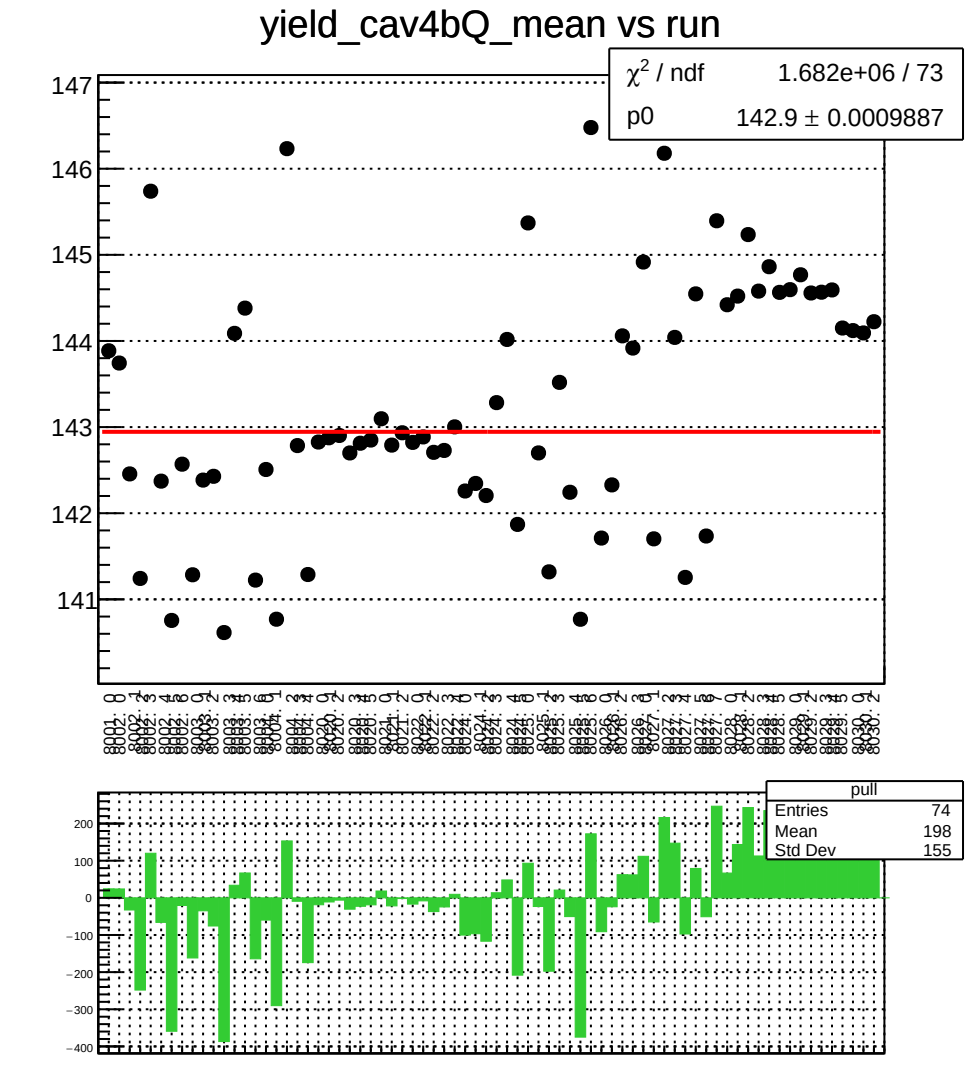

pull1D
Entries 74
Mean 0.1223
Std Dev 5.544
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

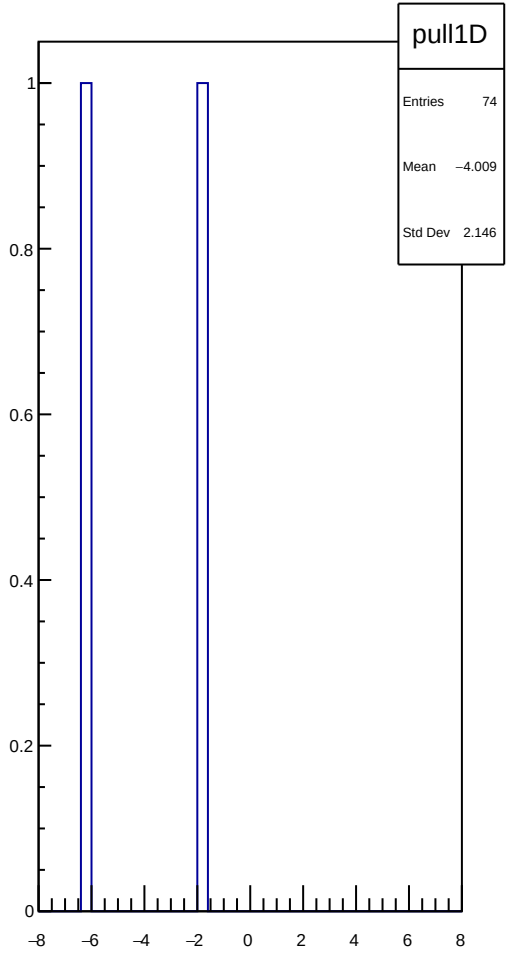

yield_bcm_dg_us_rms vs run
χ² / ndf 1.086e+04 / 73
p0 0.5766 ± 0.0004814
0.9
0.8
0.7
0.6
0.5

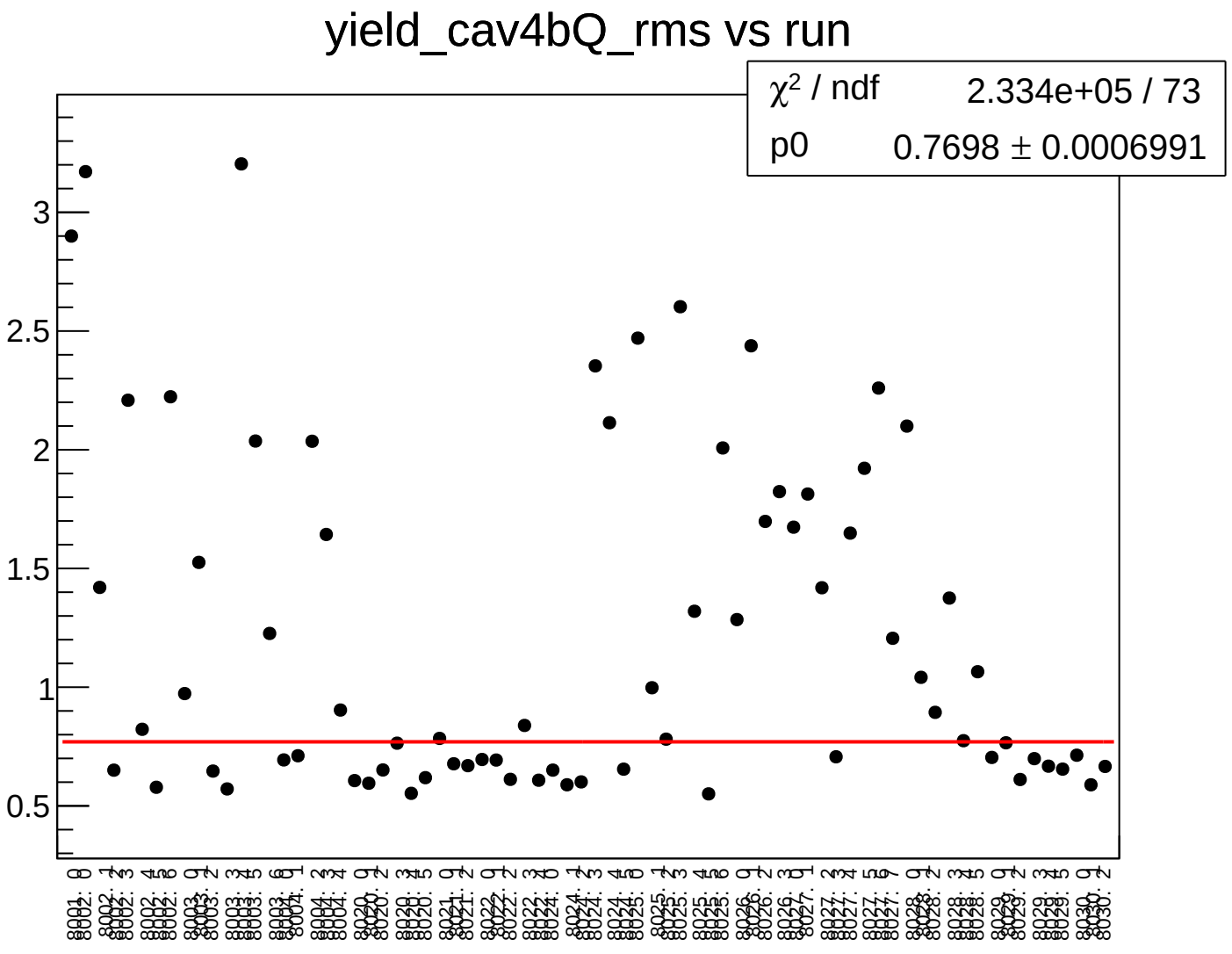

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.795e+06 / 73
p0 145.6 ± 0.0006888
147.5
147
146.5
146
145.5
145
144.5
144
143.5
143
pull
Entries 74
Mean −154.3
Std Dev 205.5
300
200
100
0
−100
−200
−300
−400

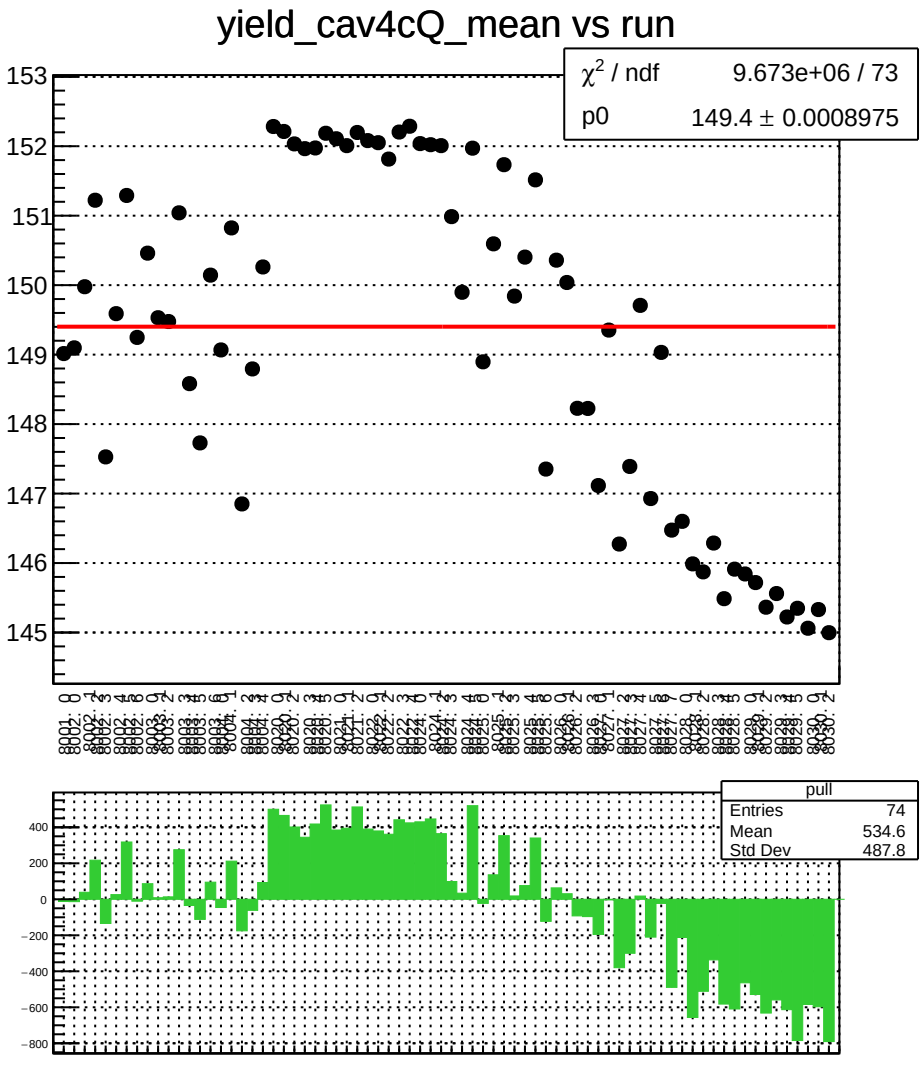

pull1D
Entries 74
Mean 2.325
Std Dev 3.137
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

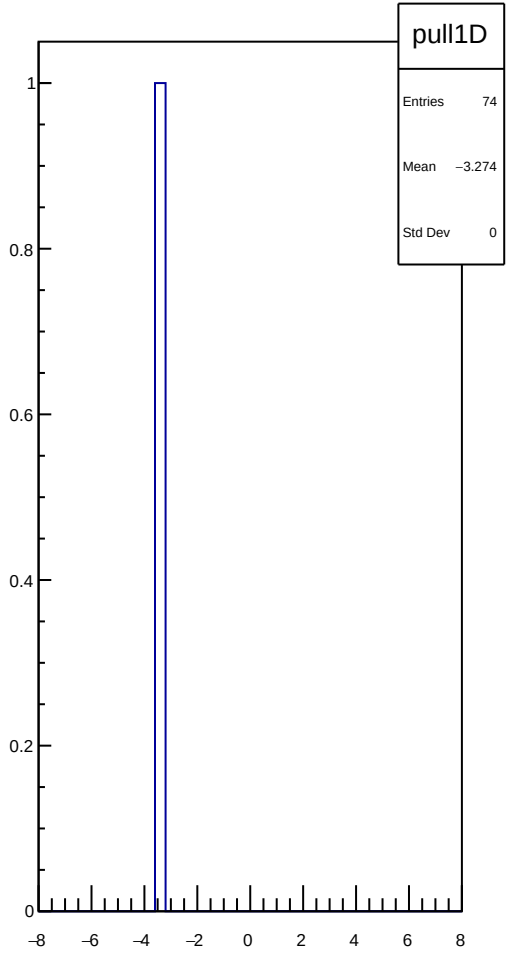

yield_bcm_dg_ds_rms vs run
χ² / ndf 1.168e+04 / 73
p0 0.5833 ± 0.0004871
1
0.9
0.8
0.7
0.6
0.5

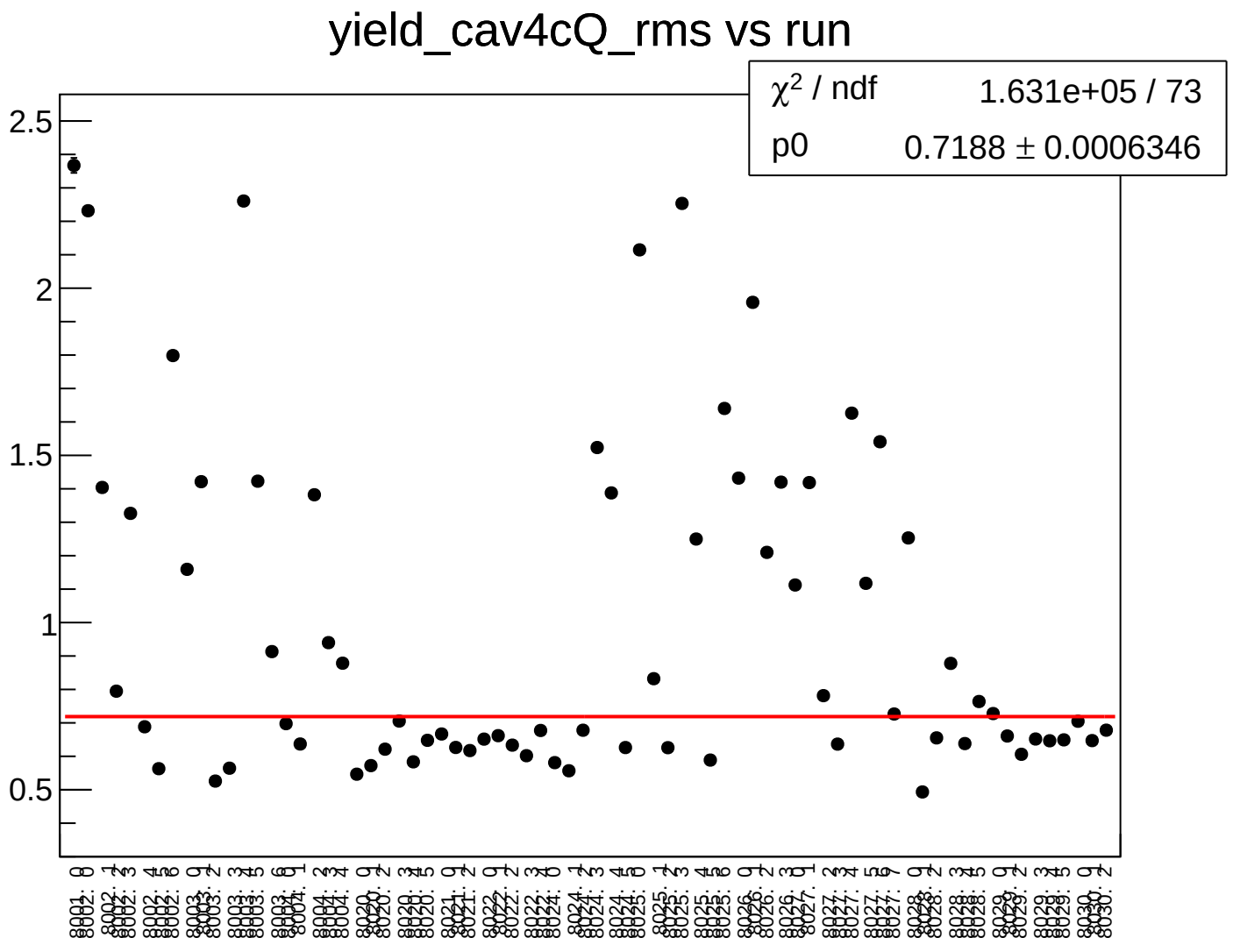

yield_cav4bQ_mean vs run
χ² / ndf 1.682e+06 / 73
p0 142.9 ± 0.0009887
147
146
145
144
143
142
141
pull
Entries 74
Mean 198
Std Dev 155
200
100
0
−100
−200
−300
−400

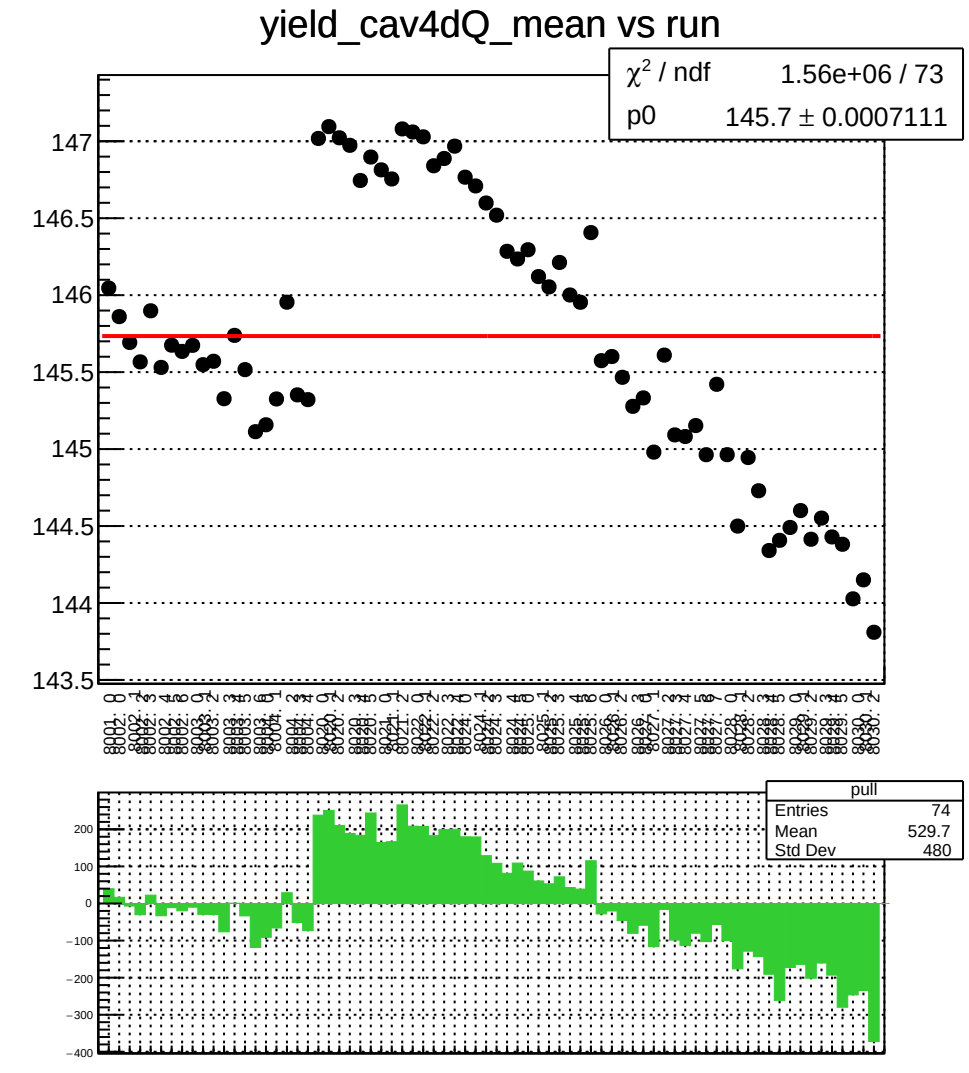

pull1D
Entries 74
Mean −4.009
Std Dev 2.146
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

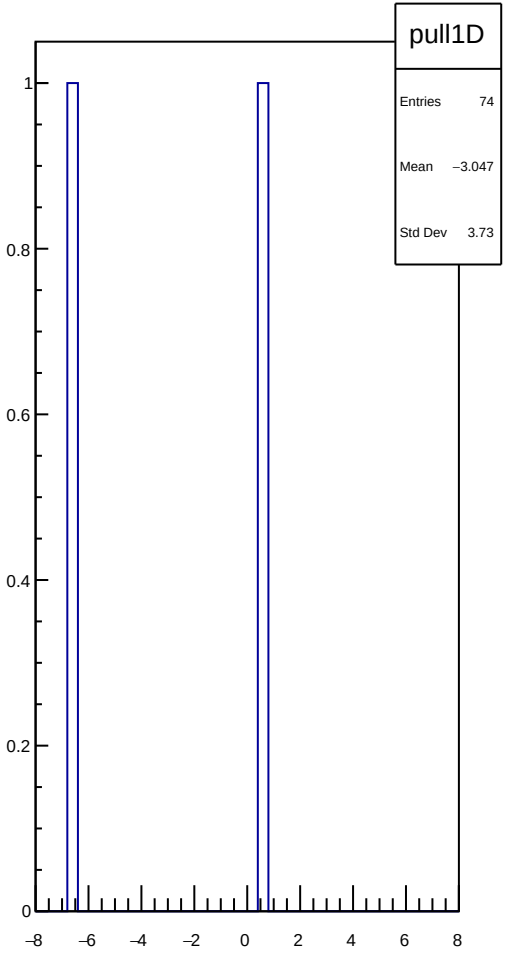

yield_cav4bQ_rms vs run
χ² / ndf 2.334e+05 / 73
p0 0.7698 ± 0.0006991
3
2.5
2
1.5
1
0.5

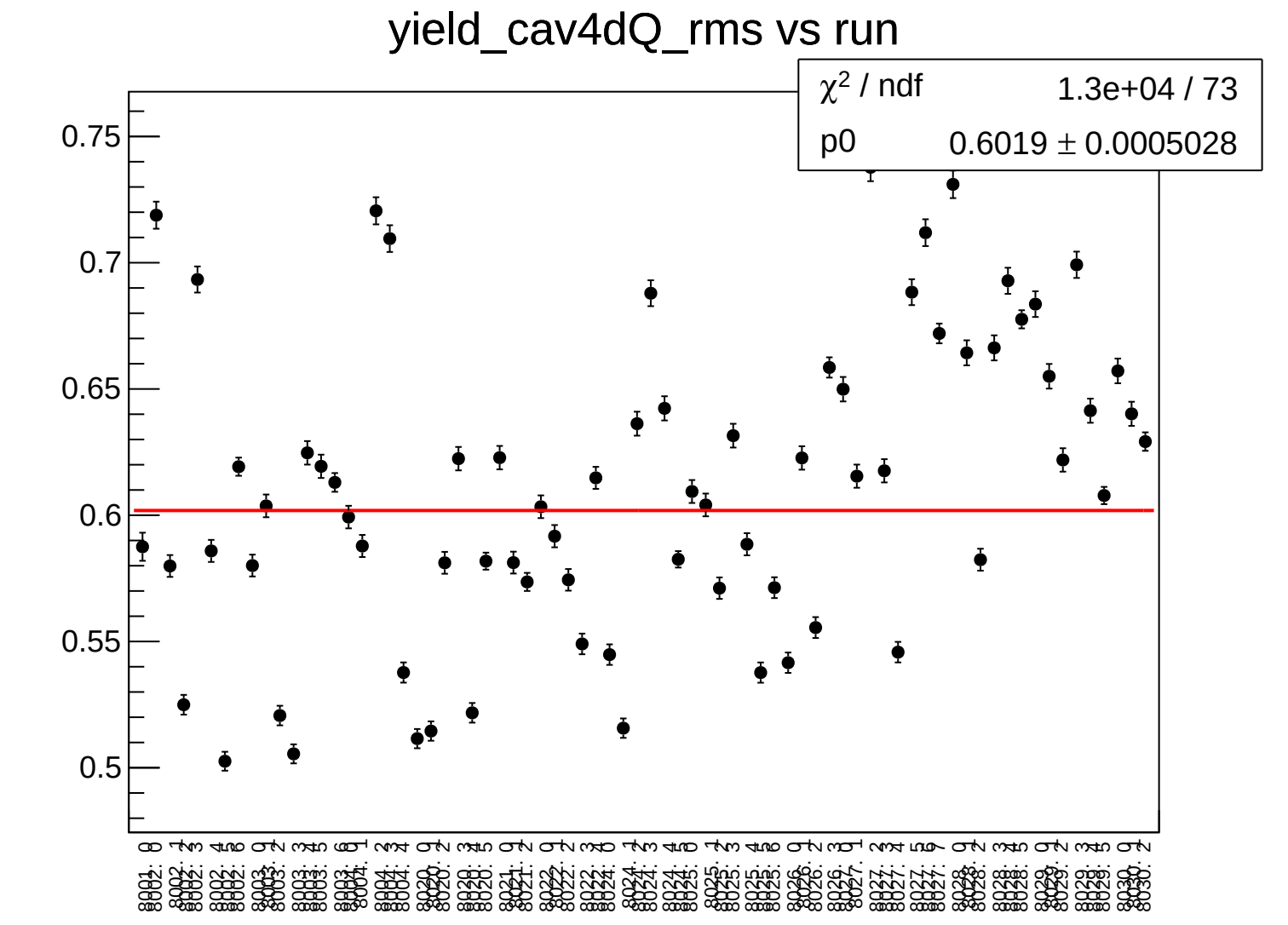

yield_cav4cQ_mean vs run
χ² / ndf 9.673e+06 / 73
p0 149.4 ± 0.0008975
153
152
151
150
149
148
147
146
145
pull
Entries 74
Mean 534.6
Std Dev 487.8
400
200
0
−200
−400
−600
−800

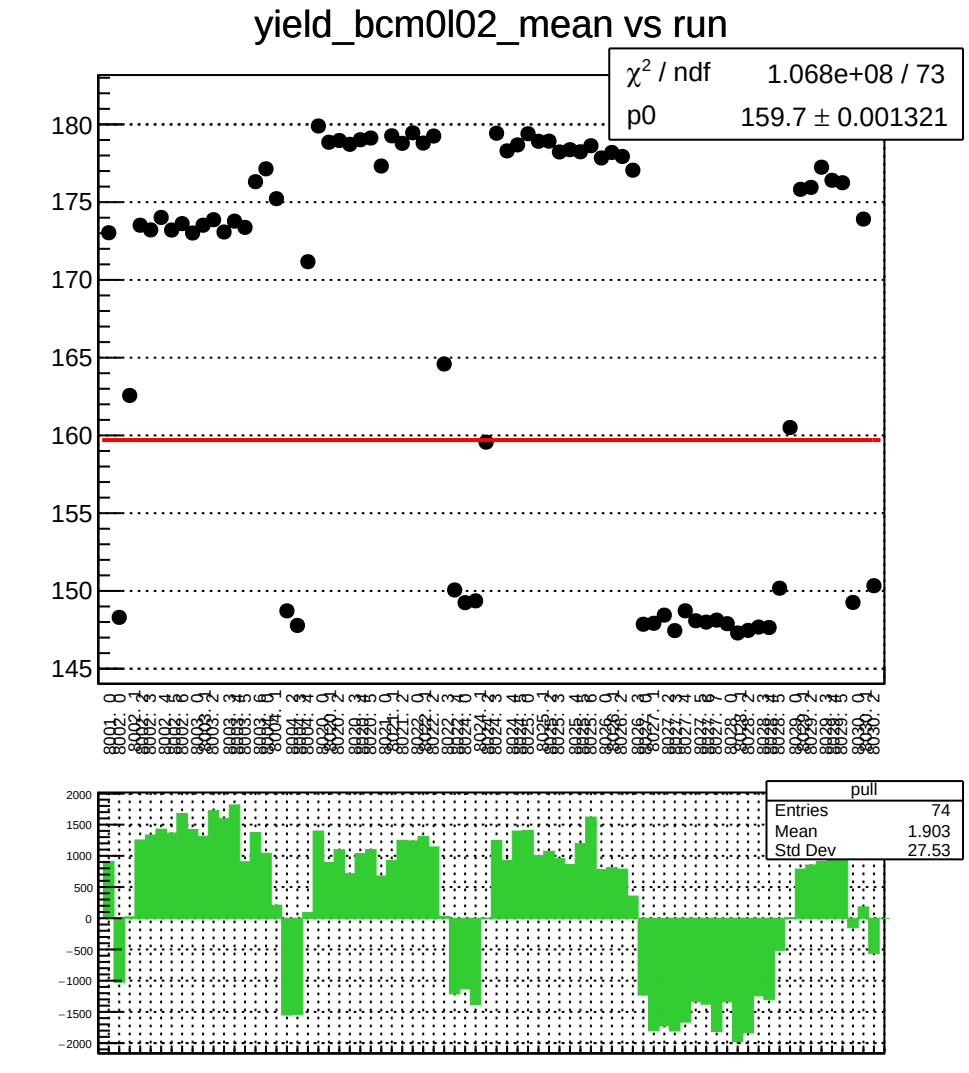

pull1D
Entries 74
Mean −3.274
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

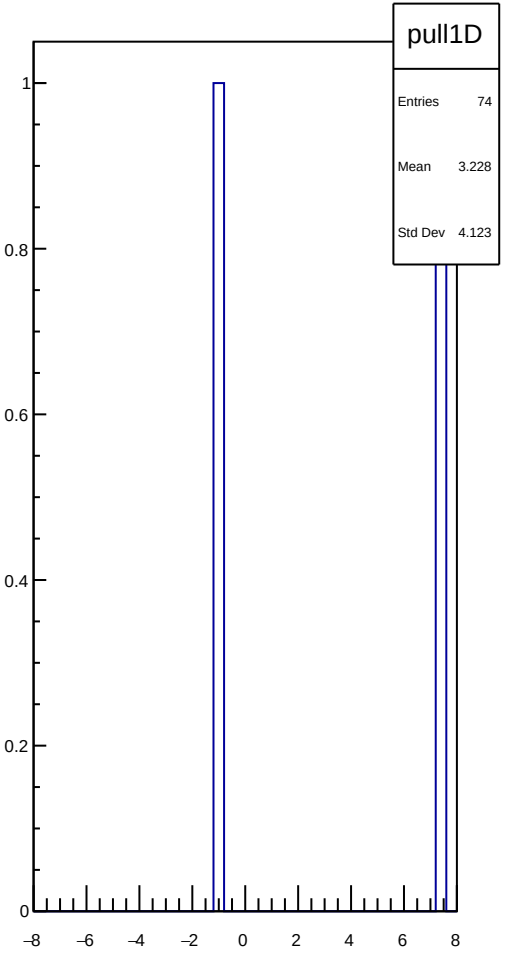

yield_cav4cQ_rms vs run
χ² / ndf 1.631e+05 / 73
p0 0.7188 ± 0.0006346
2.5
2
1.5
1
0.5

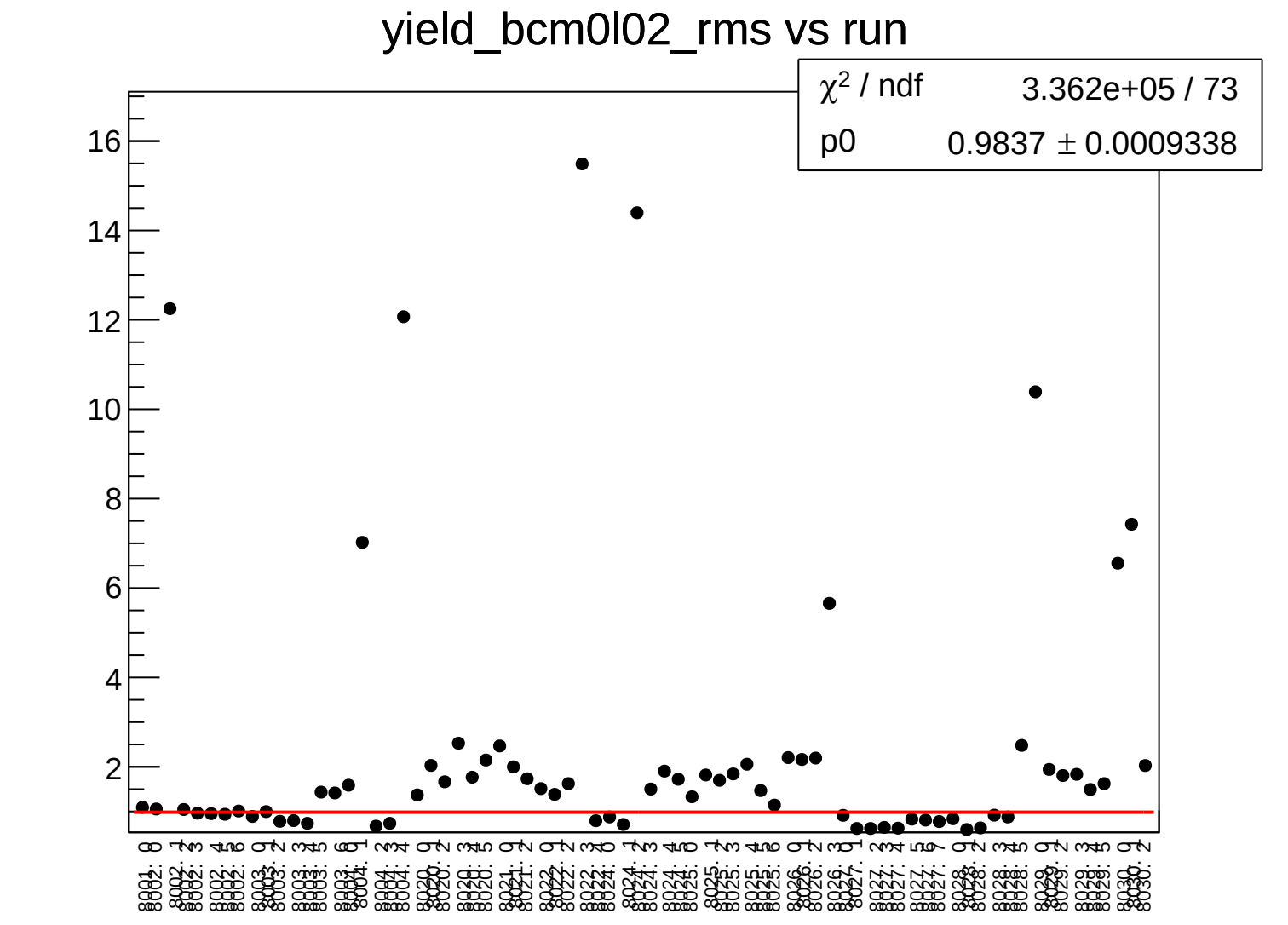

yield_cav4dQ_mean vs run
χ² / ndf 1.56e+06 / 73
p0 145.7 ± 0.0007111
147
146.5
146
145.5
145
144.5
144
143.5
pull
Entries 74
Mean 529.7
Std Dev 480
200
100
0
−100
−200
−300
−400

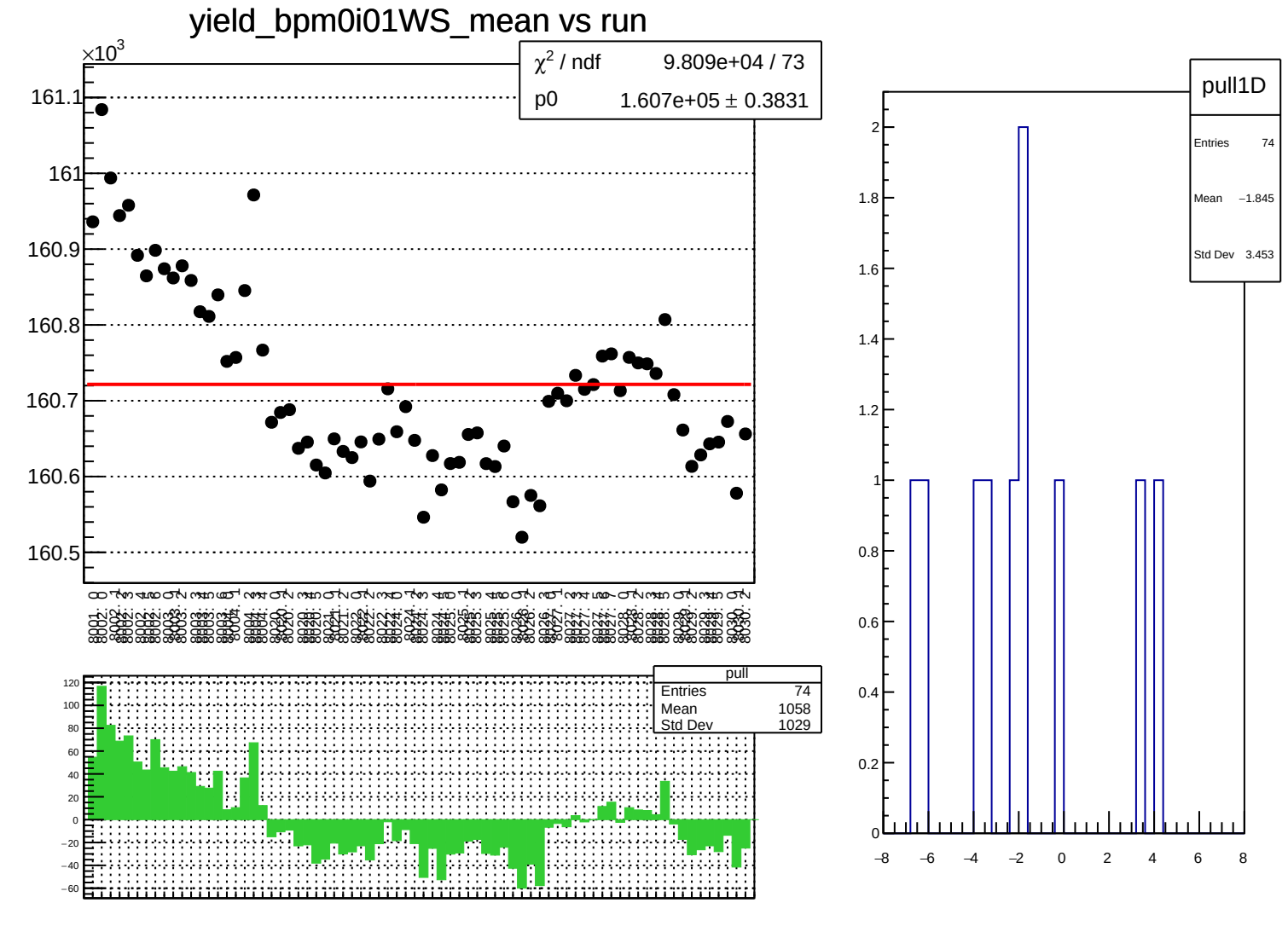

pull1D
Entries 74
Mean −3.047
Std Dev 3.73
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

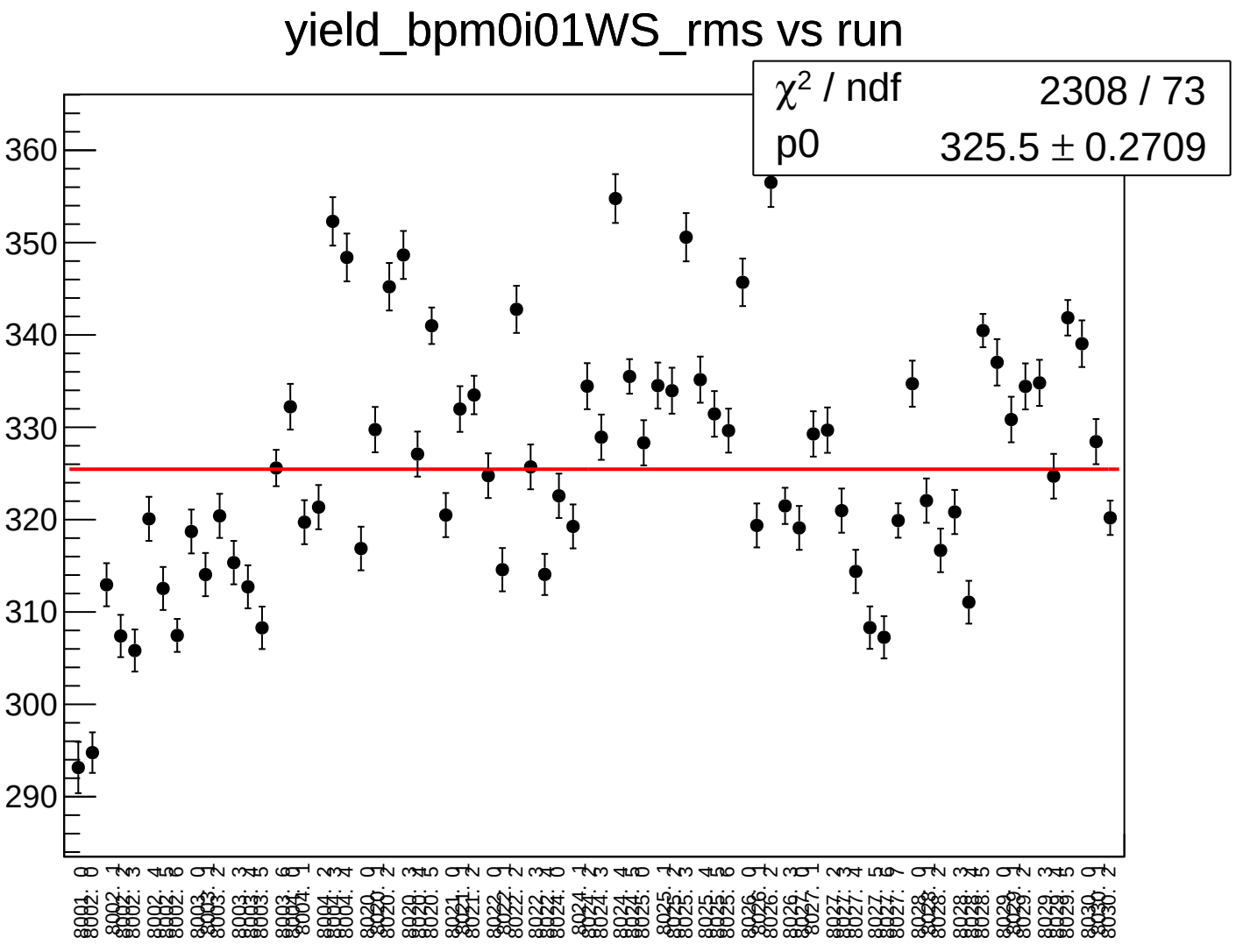

yield_cav4dQ_rms vs run
χ² / ndf 1.3e+04 / 73
p0 0.6019 ± 0.0005028
0.75
0.7
0.65
0.6
0.55
0.5

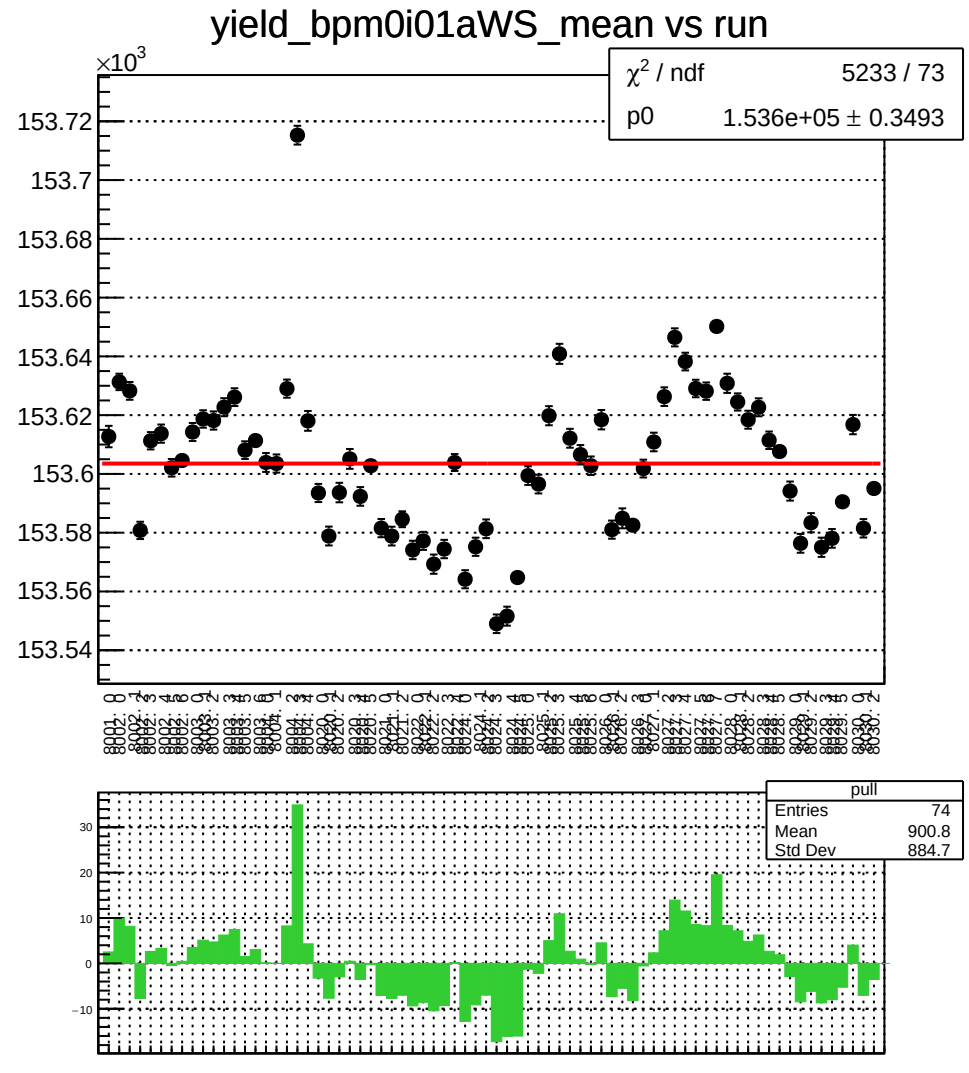

yield_bcm0l02_mean vs run
χ² / ndf 1.068e+08 / 73
p0 159.7 ± 0.001321
pull
Entries 74
Mean 1.903
Std Dev 27.53

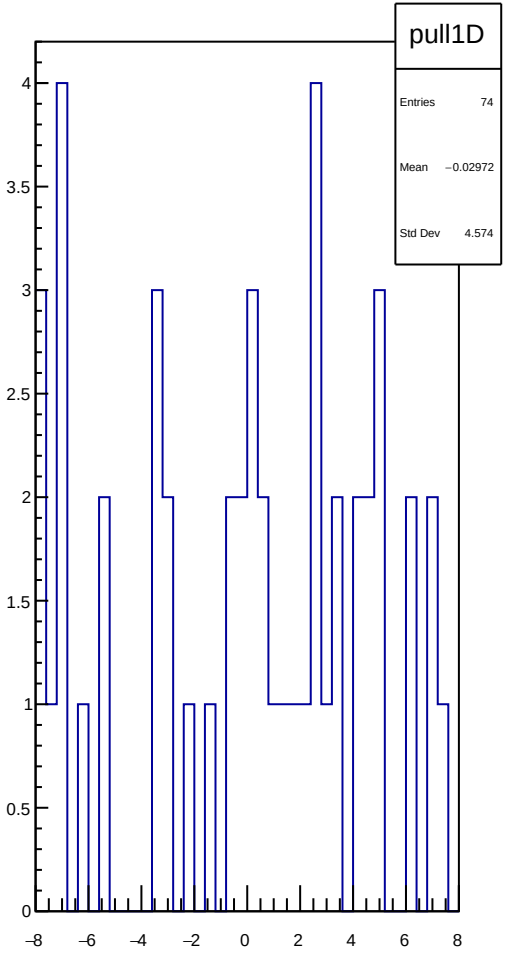

pull1D
Entries 74
Mean 3.228
Std Dev 4.123

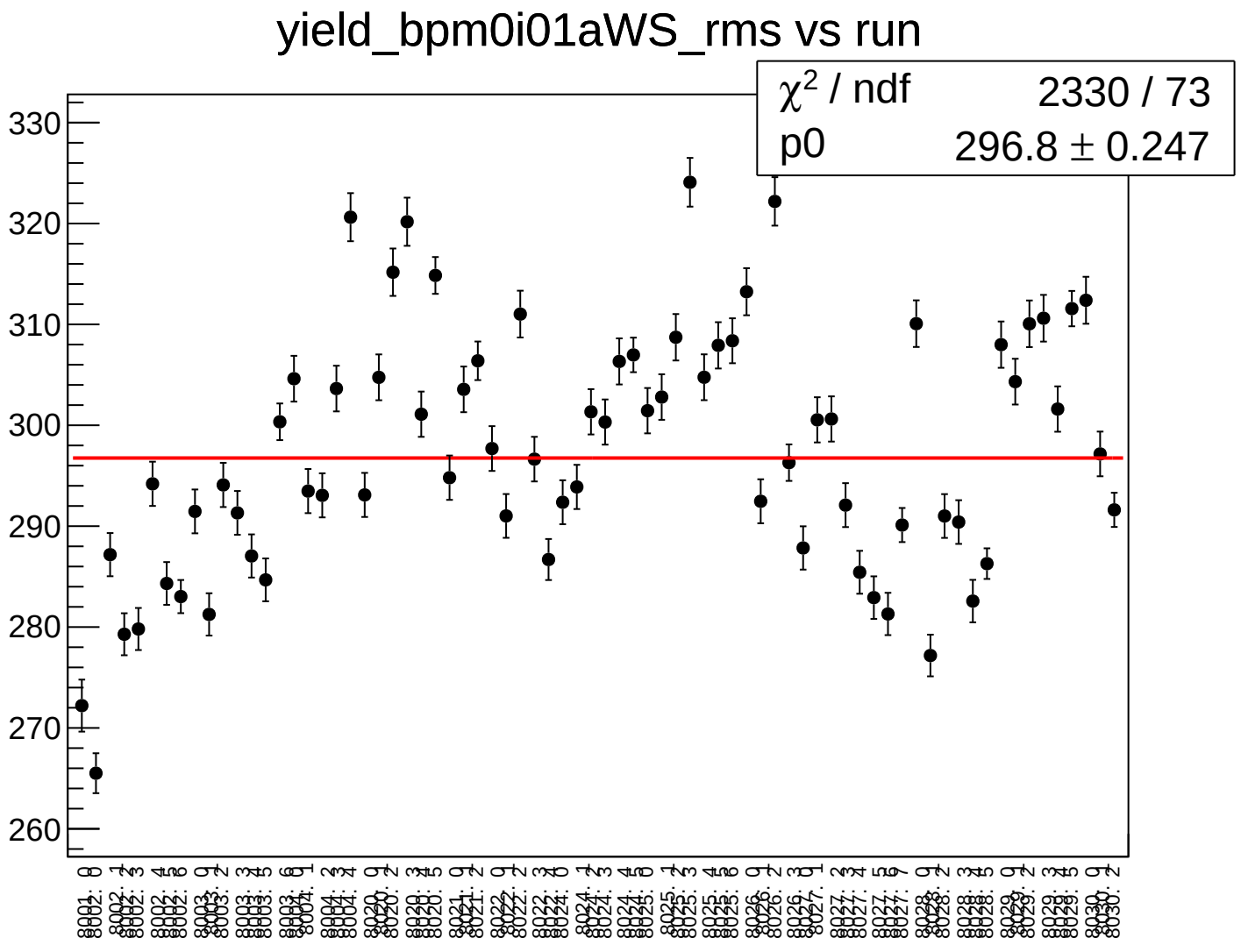

yield_bcm0l02_rms vs run
χ² / ndf 3.362e+05 / 73
p0 0.9837 ± 0.0009338
16
14
12
10
8
6
4
2

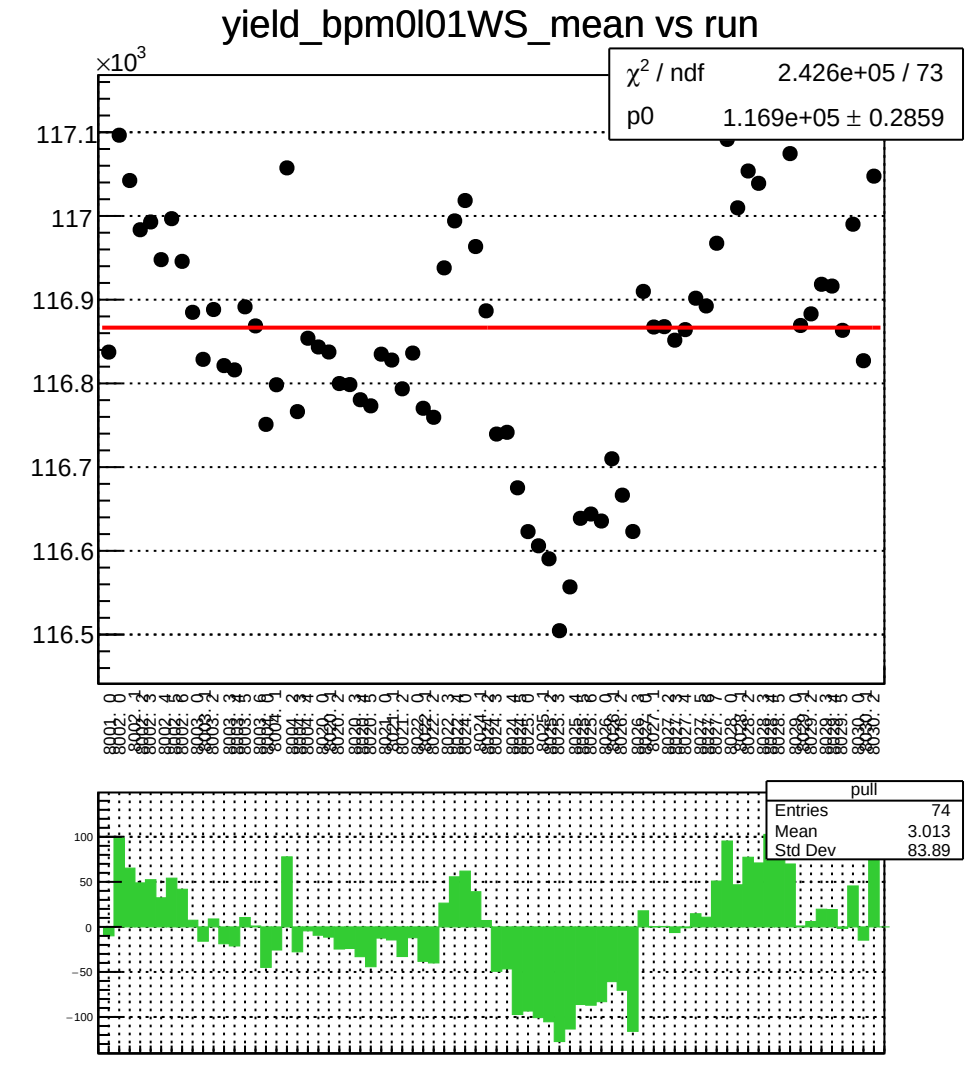

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 9.809e+04 / 73
p0 1.607e+05 ± 0.3831
161.1
161
160.9
160.8
160.7
160.6
160.5
pull
Entries 74
Mean 1058
Std Dev 1029
120
100
80
60
40
20
0
−20
−40
−60
pull1D
Entries 74
Mean −1.845
Std Dev 3.453
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

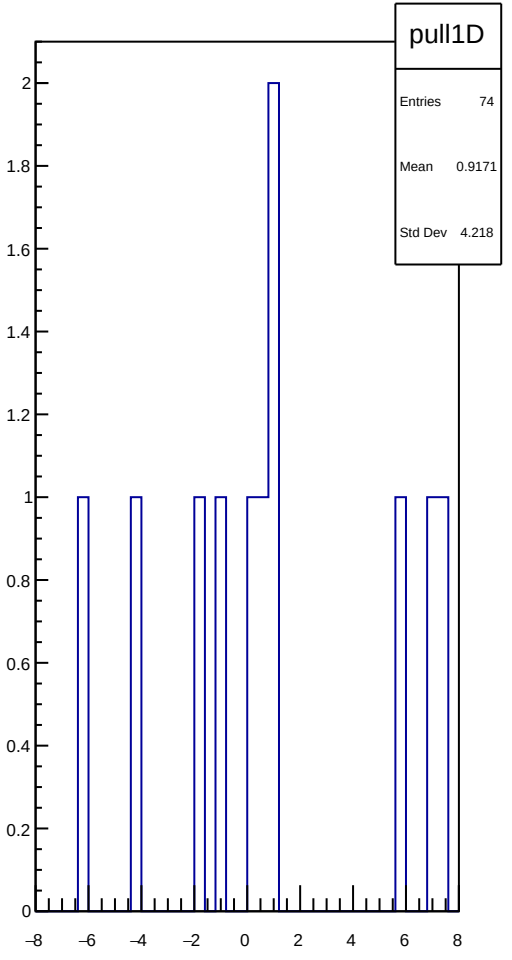

yield_bpm0i01WS_rms vs run
χ² / ndf 2308 / 73
p0 325.5 ± 0.2709
360
350
340
330
320
310
300
290

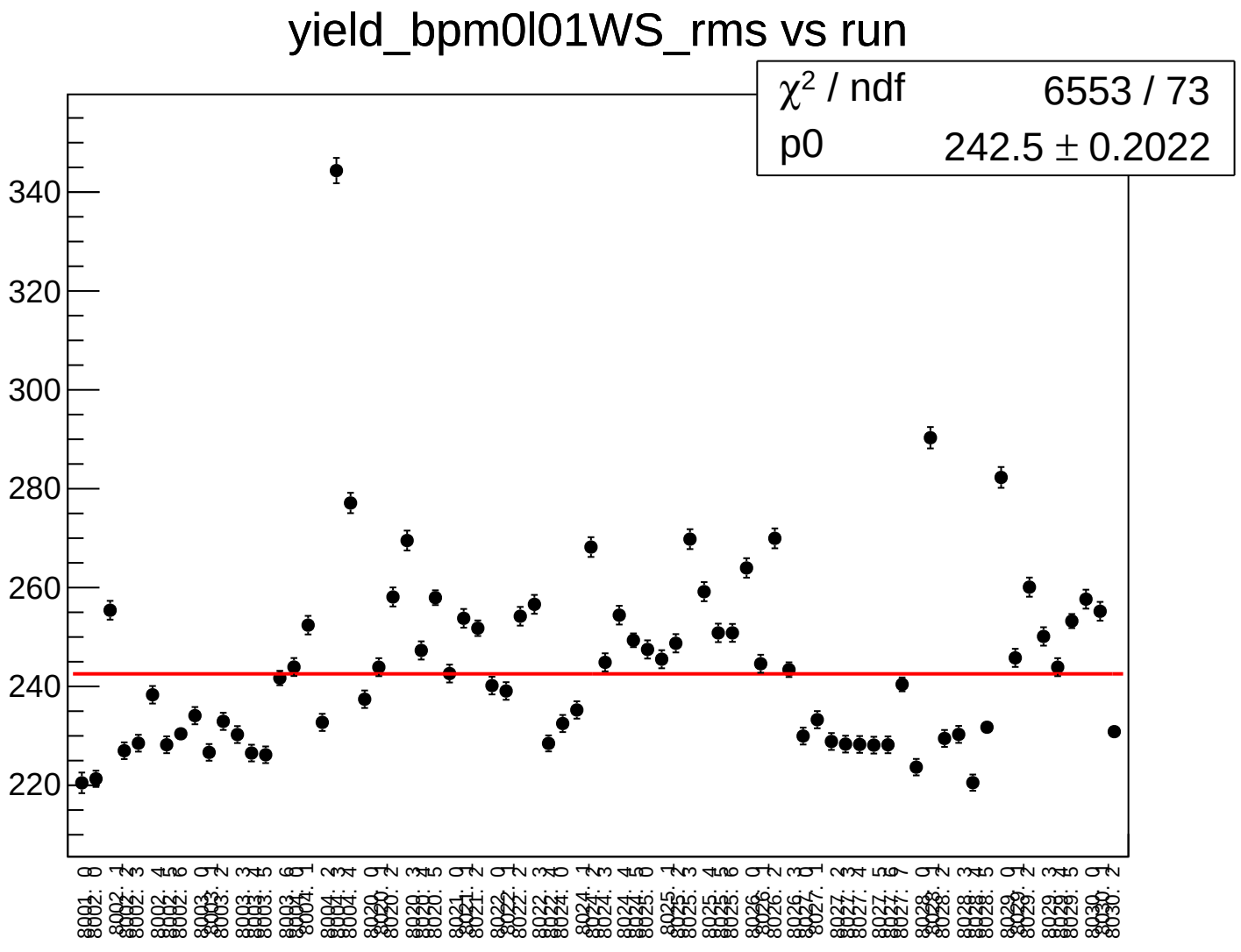

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 5233 / 73
p0 1.536e+05 ± 0.3493
153.72
153.7
153.68
153.66
153.64
153.62
153.6
153.58
153.56
153.54
pull
Entries 74
Mean 900.8
Std Dev 884.7
30
20
10
0
−10

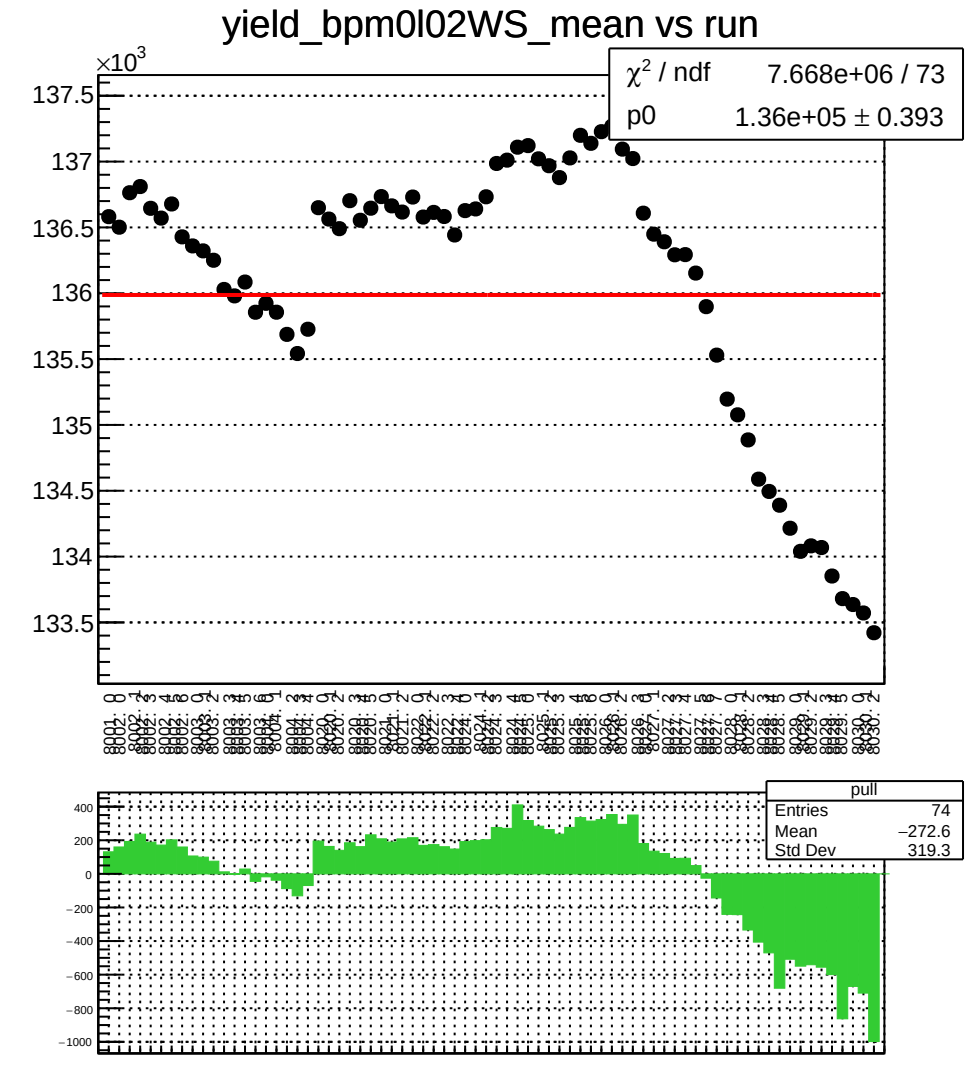

pull1D
Entries 74
Mean −0.02972
Std Dev 4.574
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

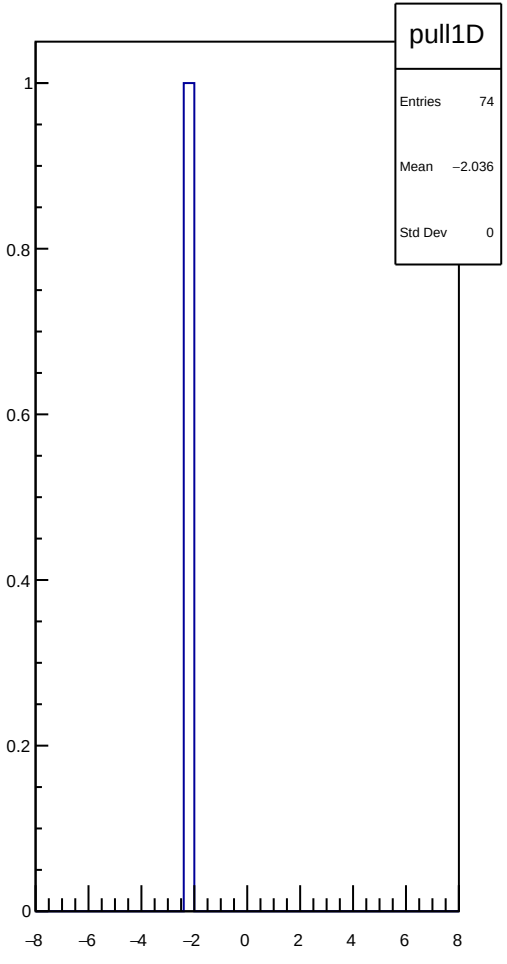

yield_bpm0i01aWS_rms vs run
χ² / ndf 2330 / 73
p0 296.8 ± 0.247
330
320
310
300
290
280
270
260

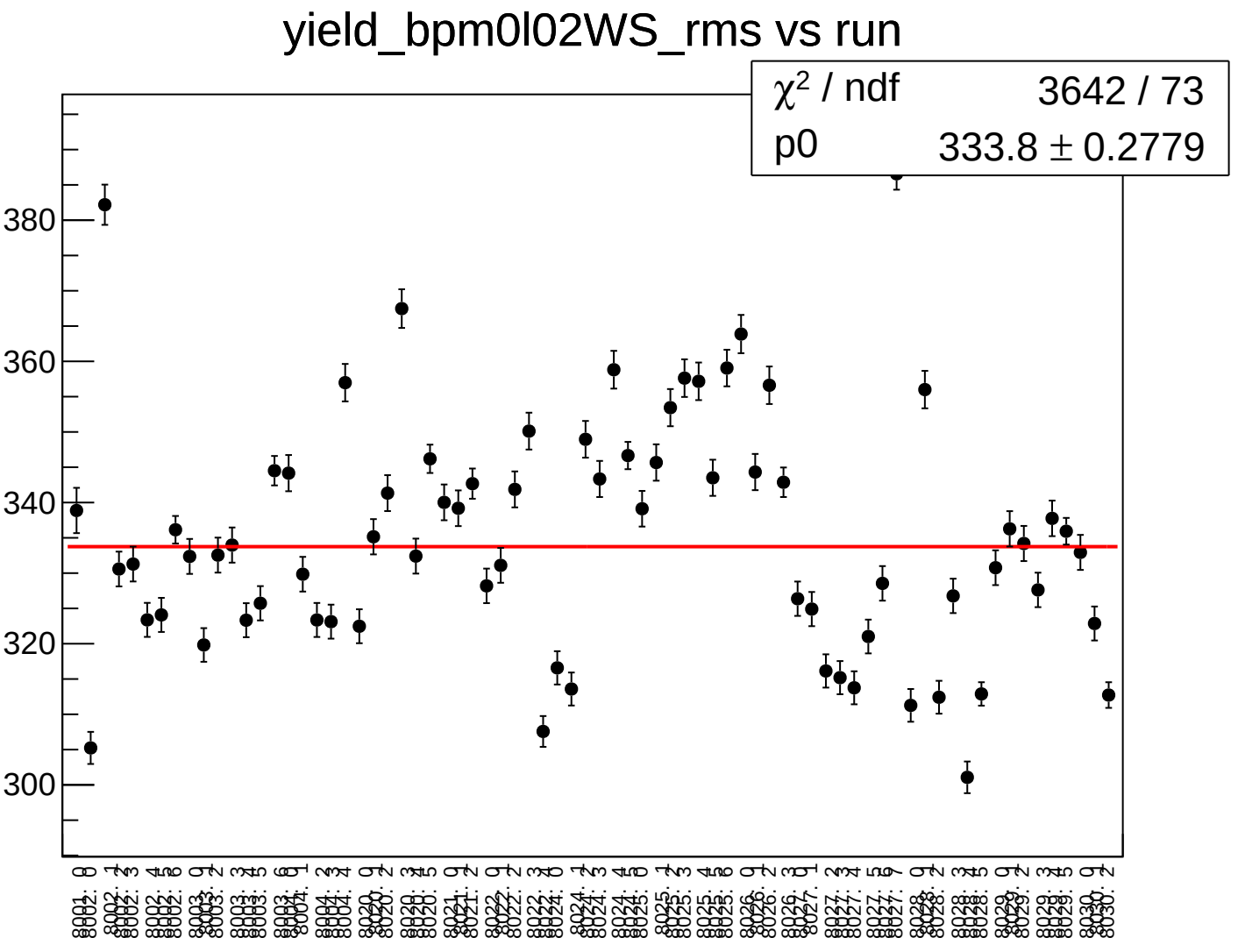

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 2.426e+05 / 73
p0 1.169e+05 ± 0.2859
117.1
117
116.9
116.8
116.7
116.6
116.5
pull
Entries 74
Mean 3.013
Std Dev 83.89
100
50
0
−50
−100

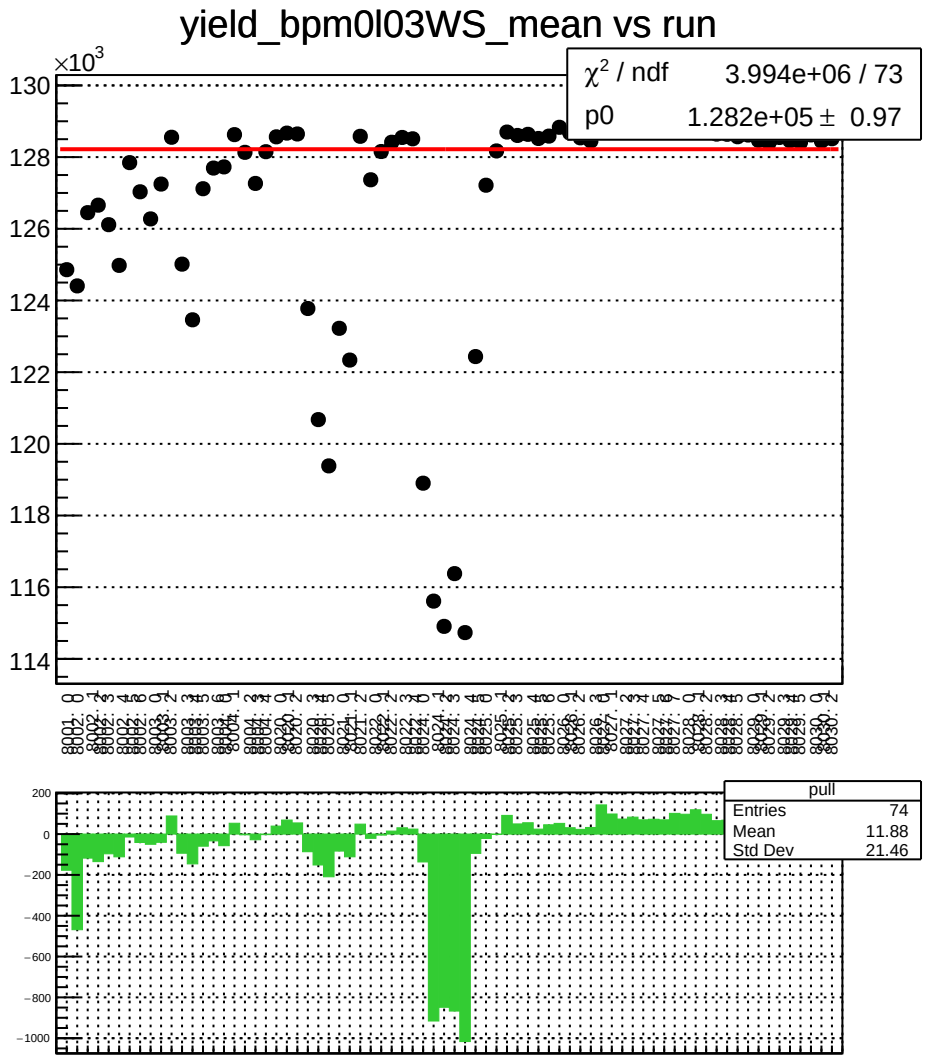

pull1D
Entries 74
Mean 0.9171
Std Dev 4.218
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

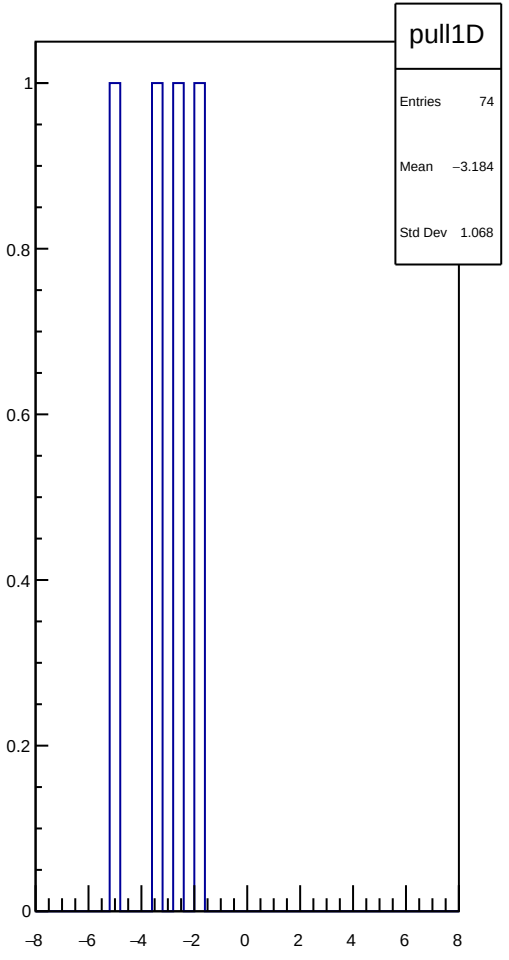

yield_bpm0l01WS_rms vs run
χ² / ndf 6553 / 73
p0 242.5 ± 0.2022
340
320
300
280
260
240
220

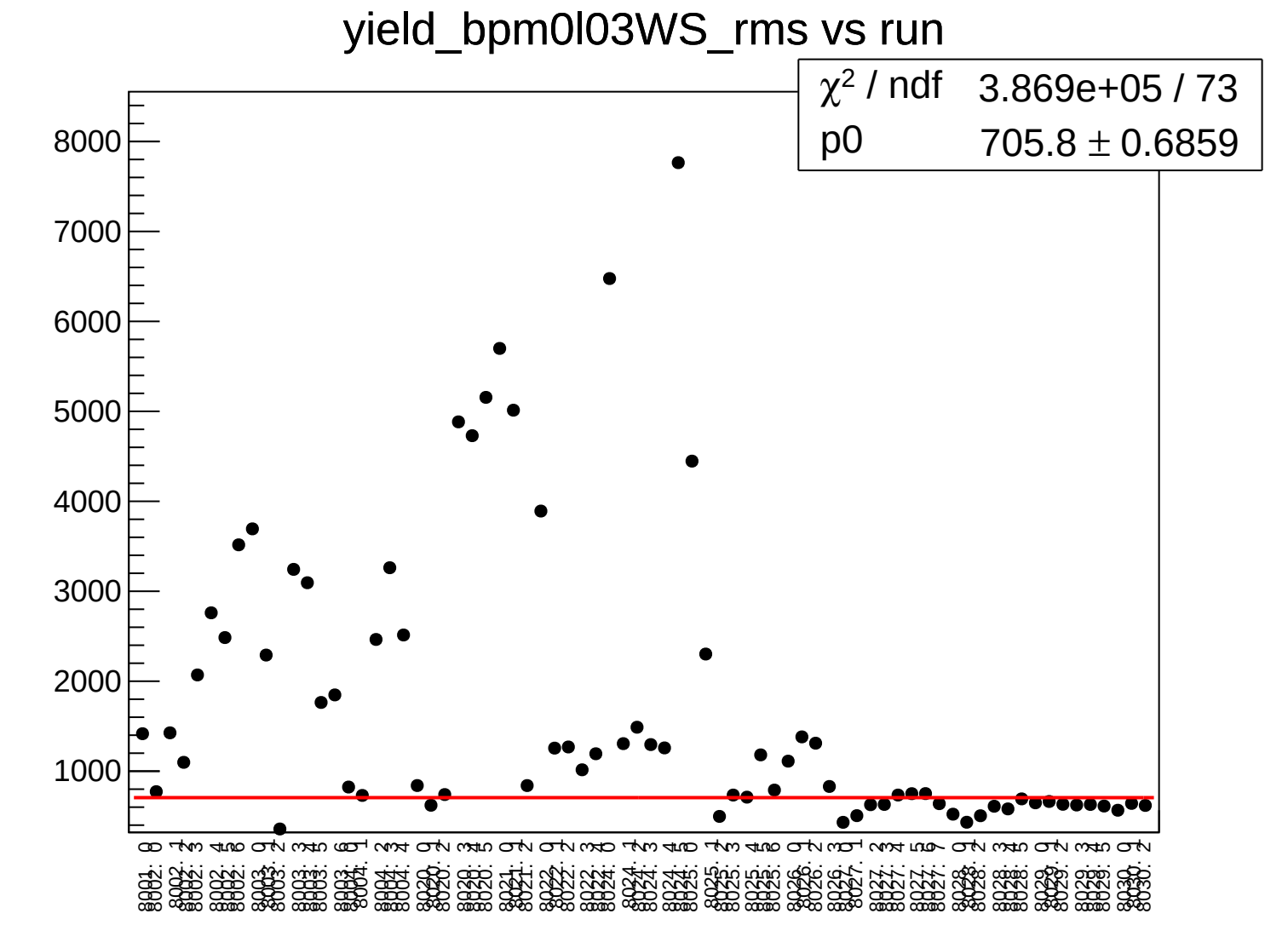

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 7.668e+06 / 73
p0 1.36e+05 ± 0.393
137.5
137
136.5
136
135.5
135
134.5
134
133.5
pull
Entries 74
Mean −272.6
Std Dev 319.3
400
200
0
−200
−400
−600
−800
−1000

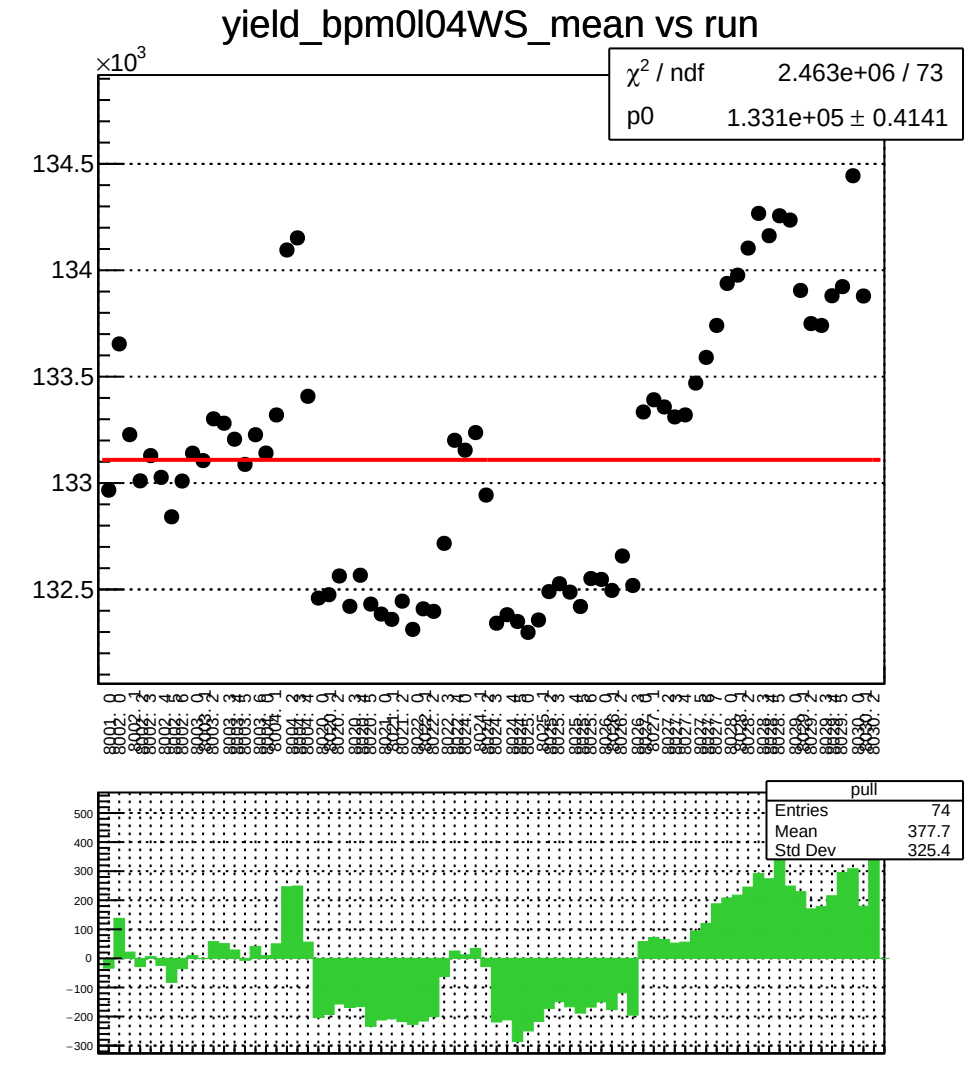

pull1D
Entries 74
Mean −2.036
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

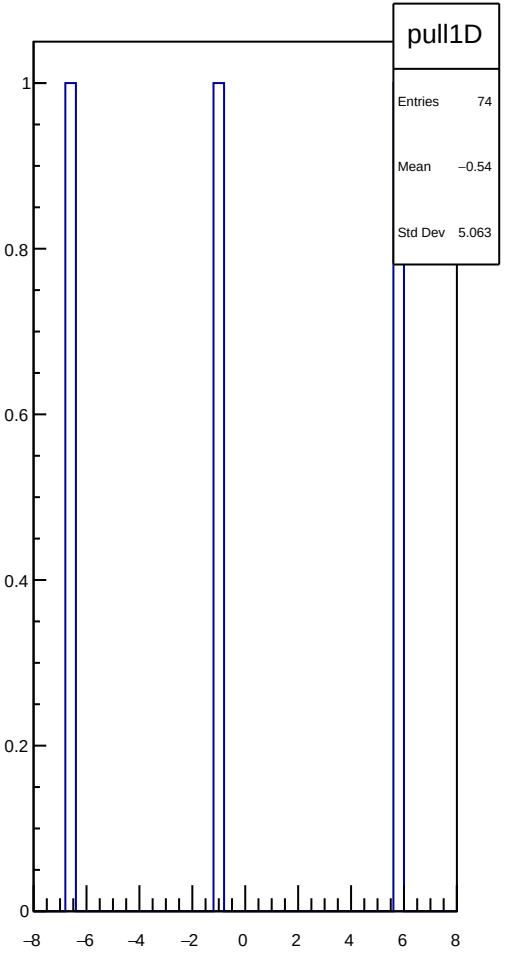

yield_bpm0l02WS_rms vs run
χ² / ndf 3642 / 73
p0 333.8 ± 0.2779
380
360
340
320
300

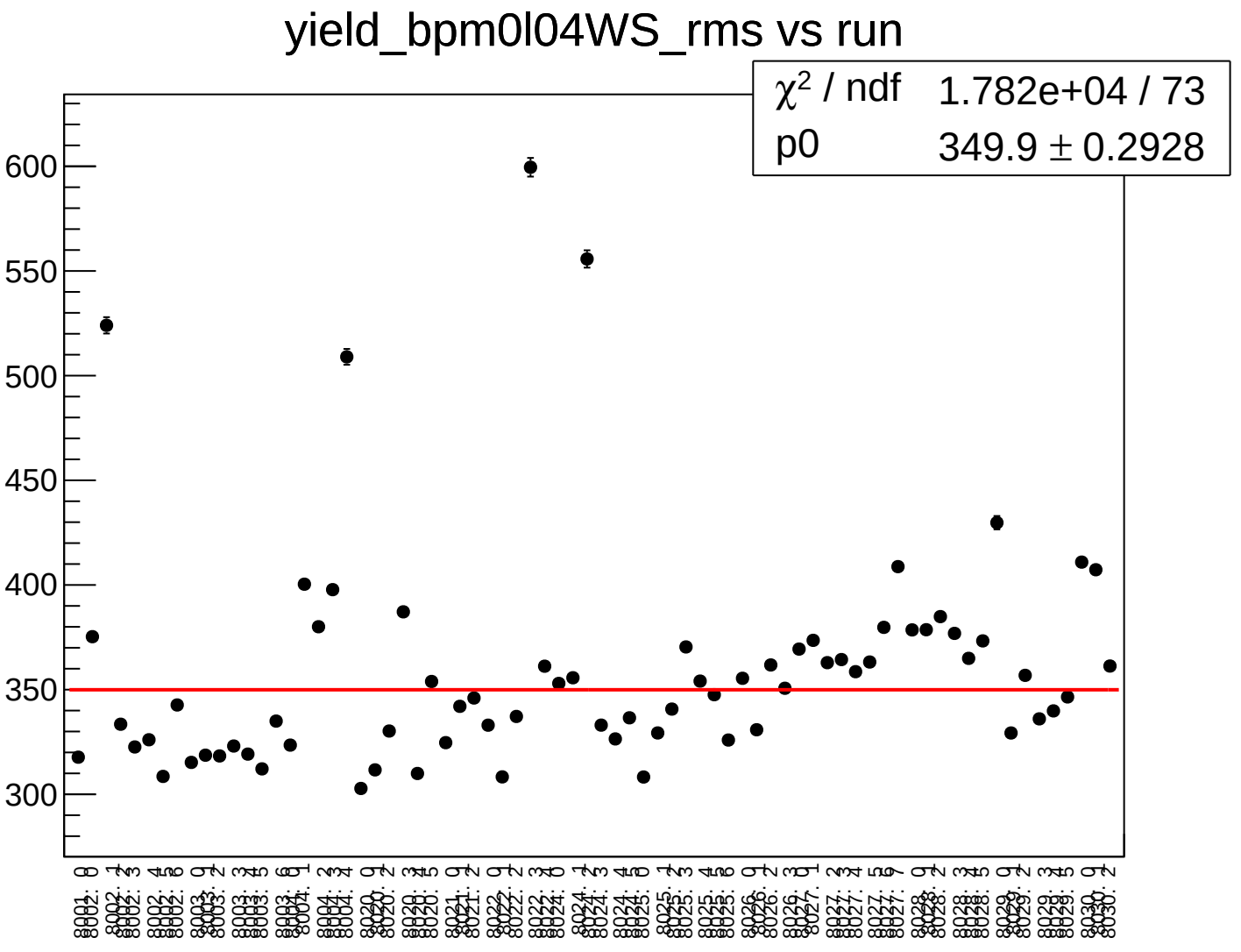

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.994e+06 / 73
p0 1.282e+05 ± 0.97
130
128
126
124
122
120
118
116
114
pull
Entries 74
Mean 11.88
Std Dev 21.46
200
0
−200
−400
−600
−800
−1000

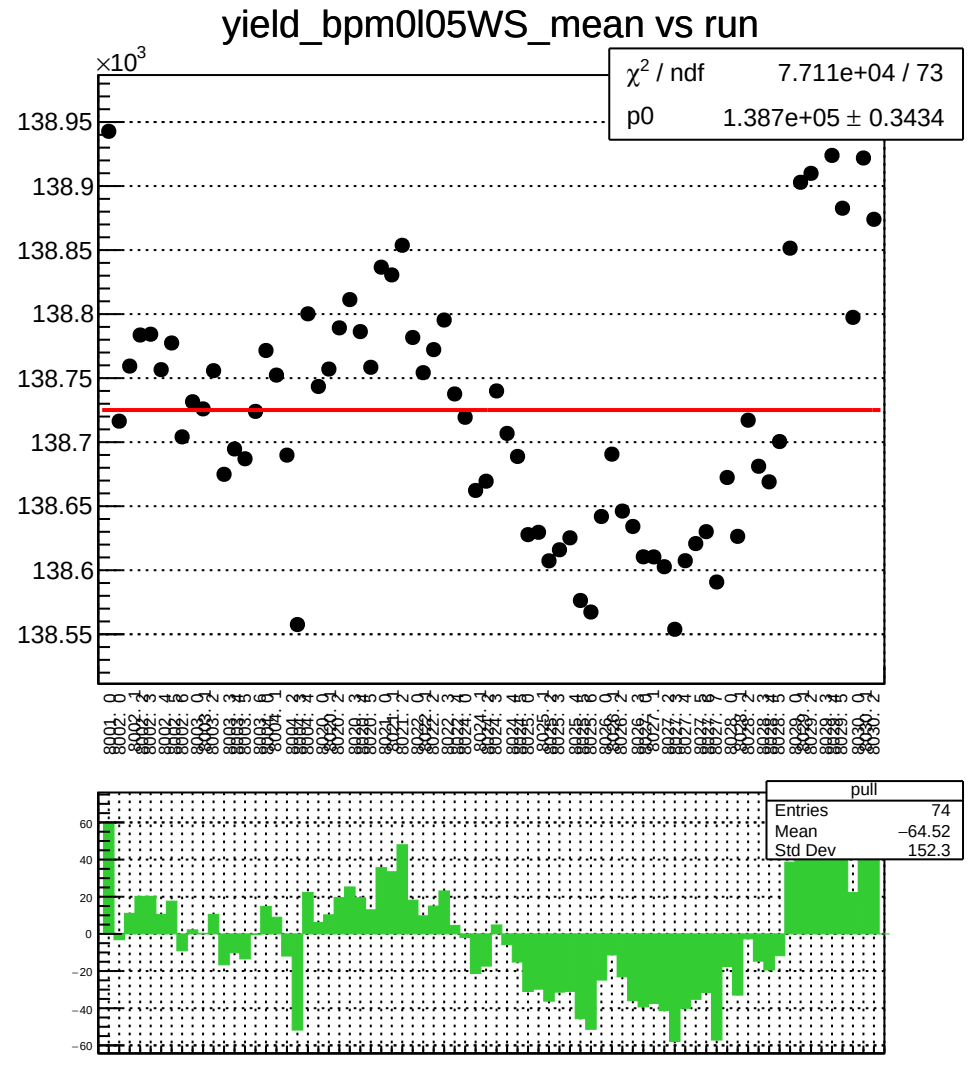

pull1D
Entries 74
Mean −3.184
Std Dev 1.068
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

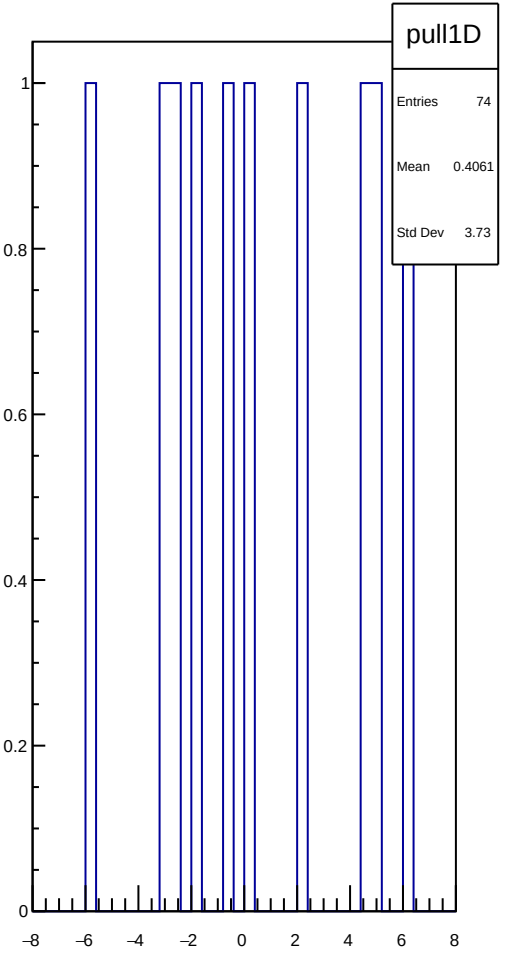

yield_bpm0l03WS_rms vs run
χ² / ndf 3.869e+05 / 73
p0 705.8 ± 0.6859
8000
7000
6000
5000
4000
3000
2000
1000

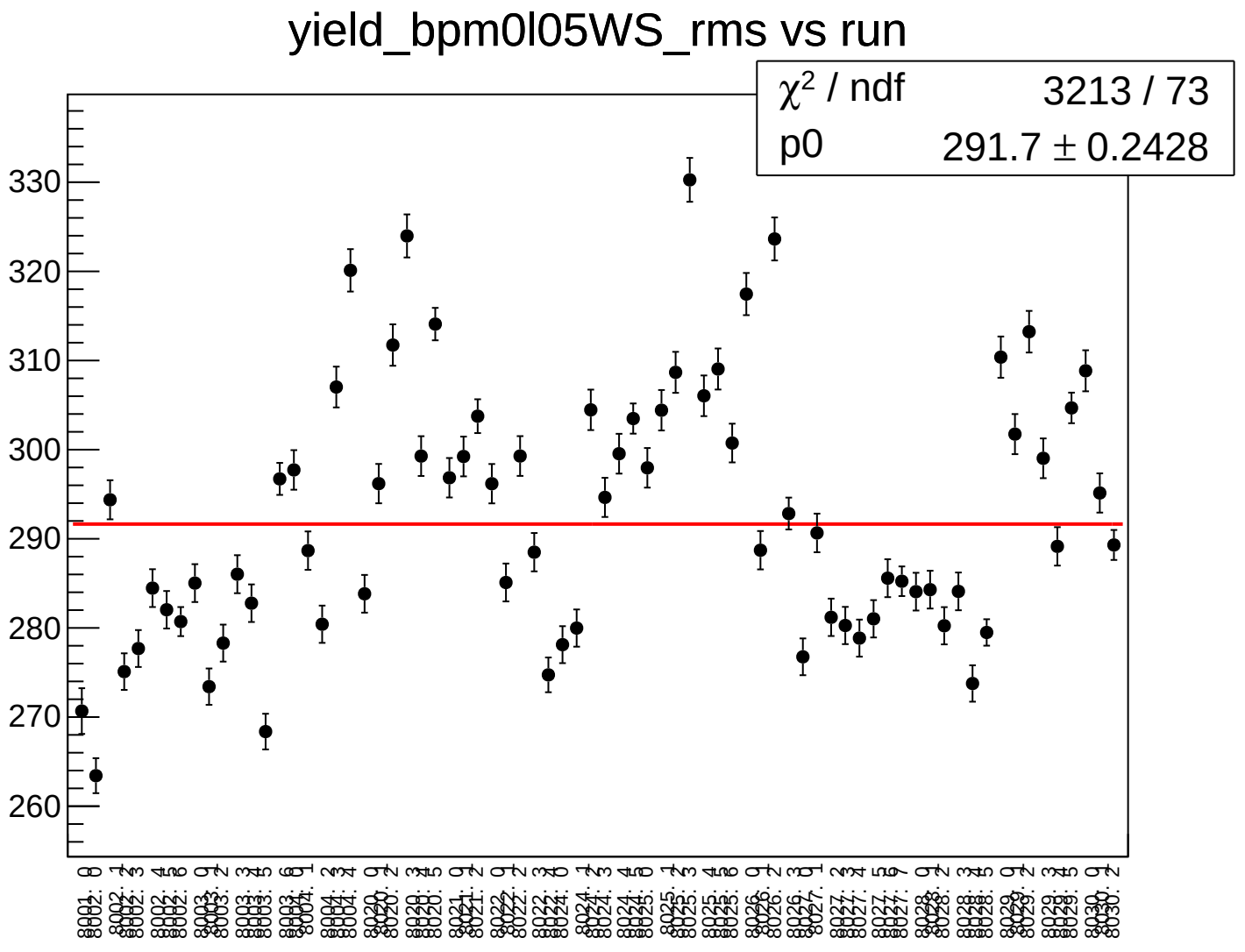

yield_bpm0l04WS_mean vs run
χ² / ndf 2.463e+06 / 73
p0 1.331e+05 ± 0.4141
×10³
134.5
134
133.5
133
132.5
pull
Entries 74
Mean 377.7
Std Dev 325.4
500
400
300
200
100
0
−100
−200
−300

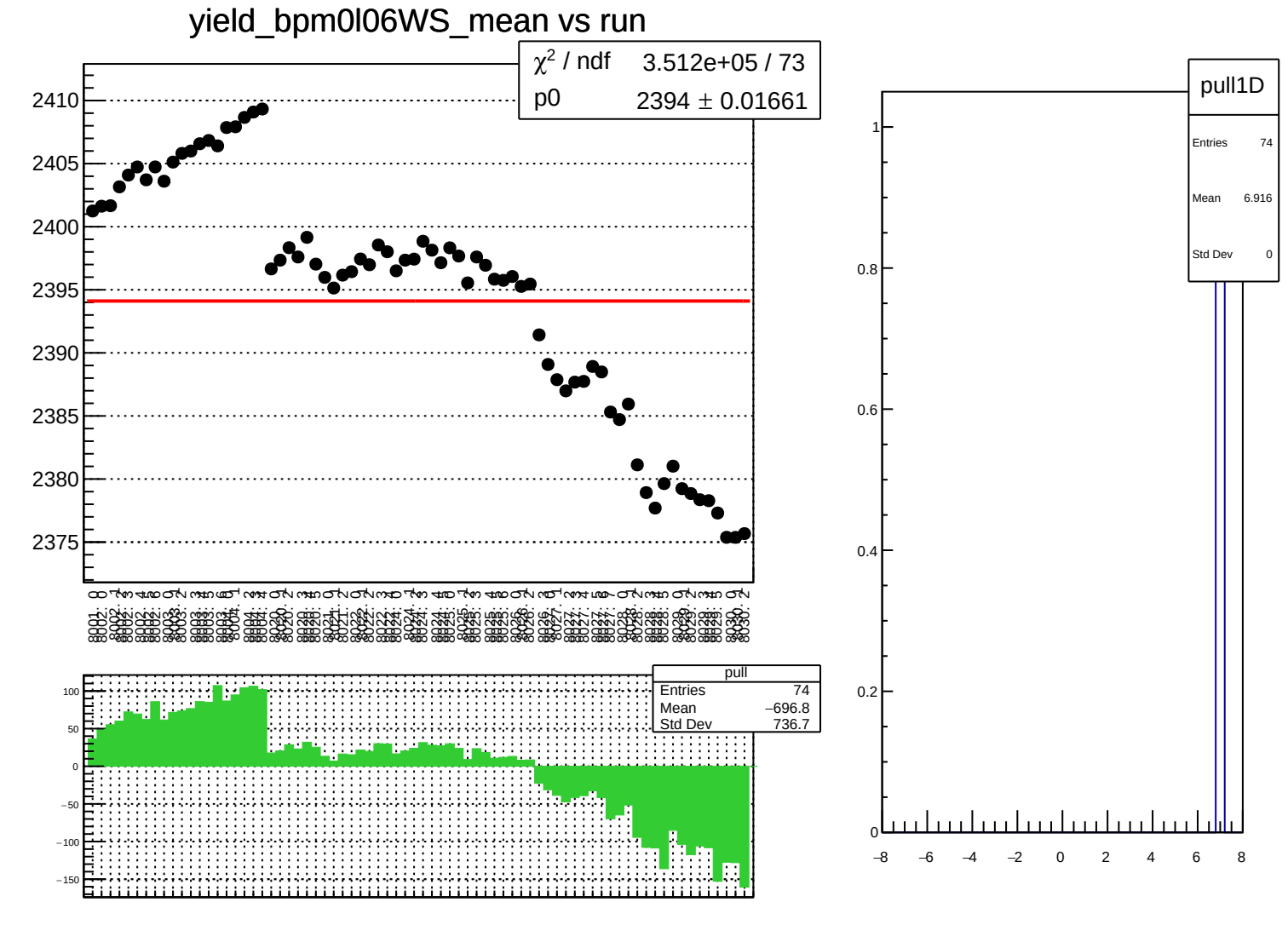

pull1D
Entries 74
Mean −0.54
Std Dev 5.063
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

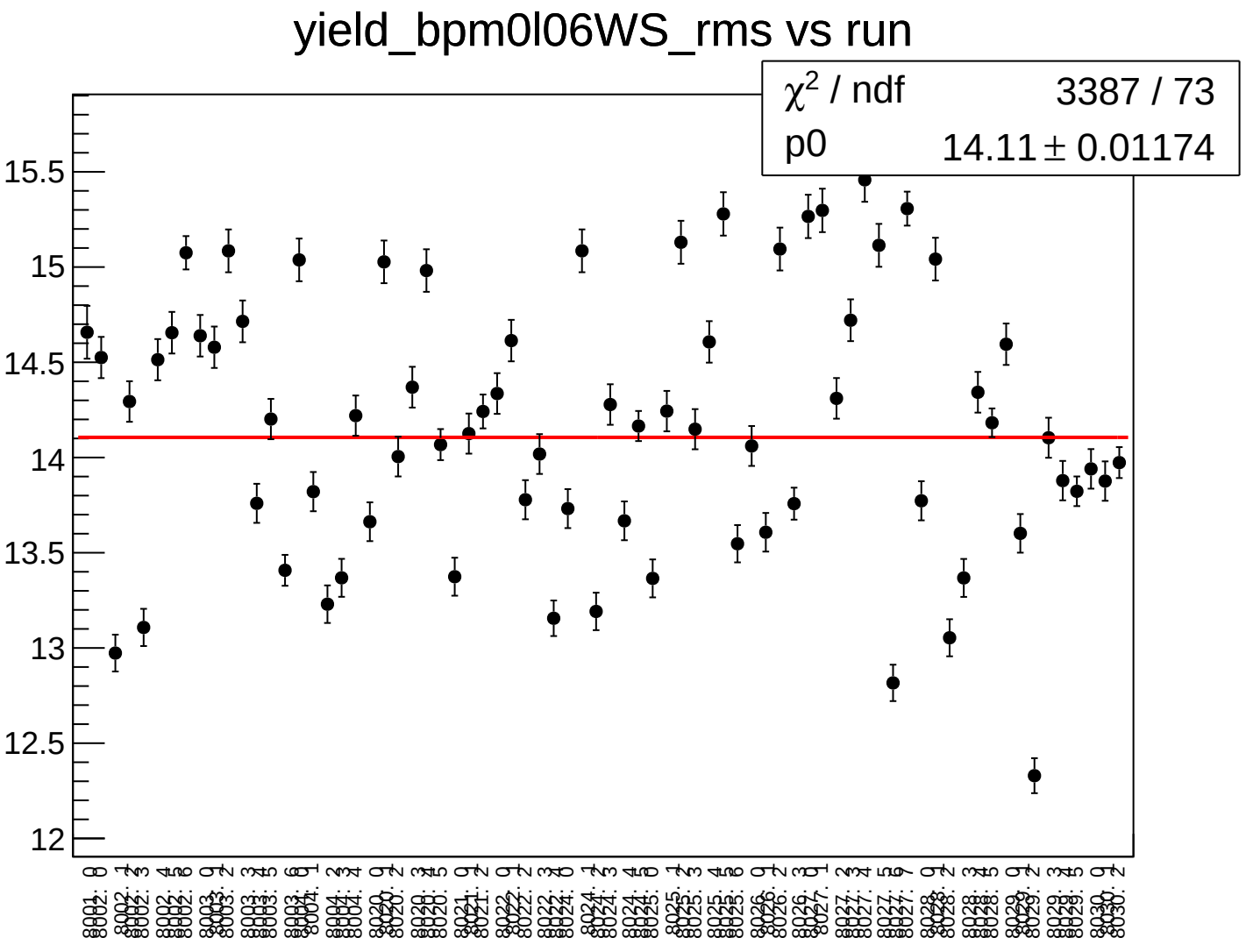

yield_bpm0l04WS_rms vs run
χ^2 / ndf 1.782e+04 / 73
p0 349.9 ± 0.2928
600
550
500
450
400
350
300

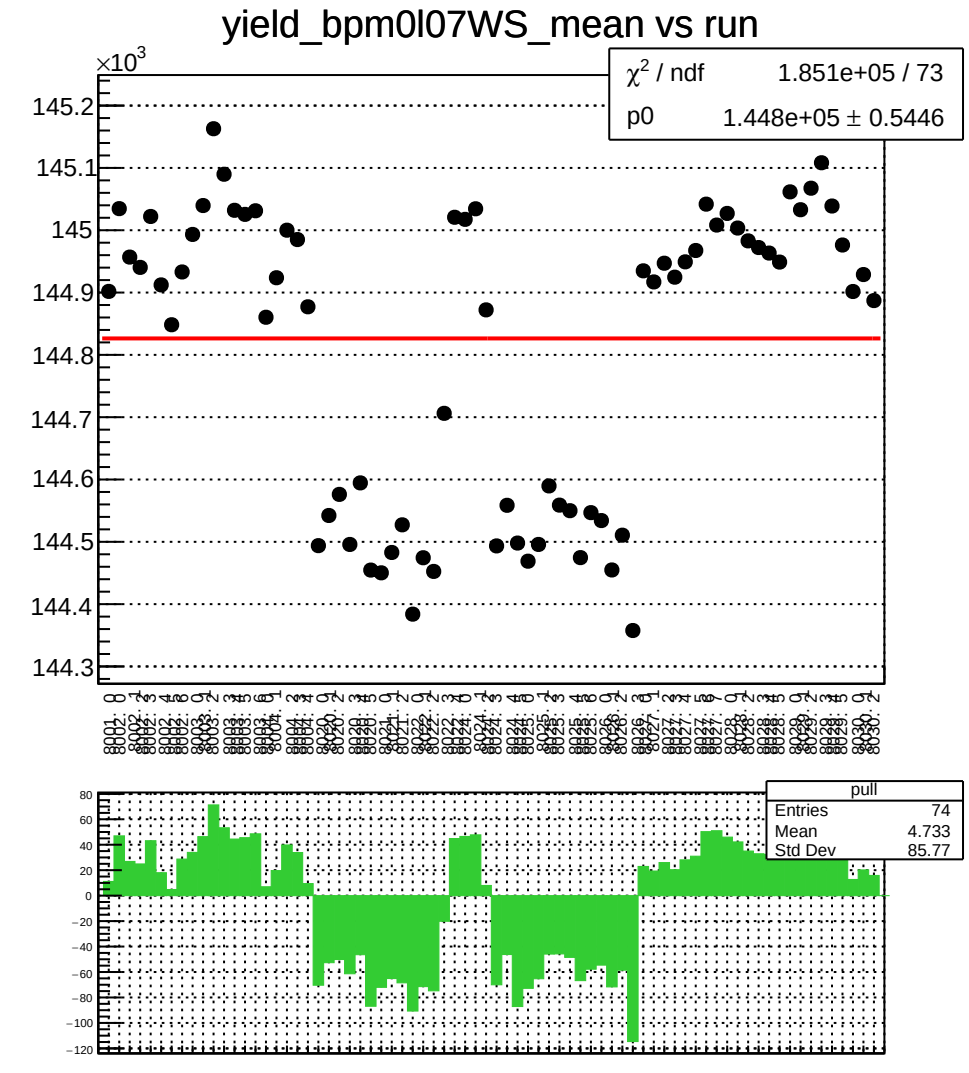

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 7.711e+04 / 73
p0 1.387e+05 ± 0.3434
138.95
138.9
138.85
138.8
138.75
138.7
138.65
138.6
138.55
pull
Entries 74
Mean −64.52
Std Dev 152.3
60
40
20
0
−20
−40
−60

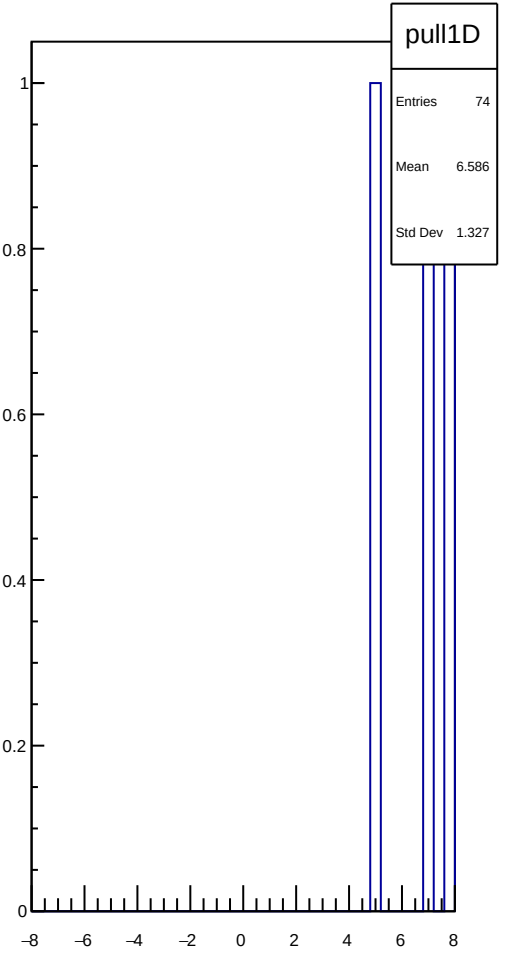

pull1D
Entries 74
Mean 0.4061
Std Dev 3.73
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

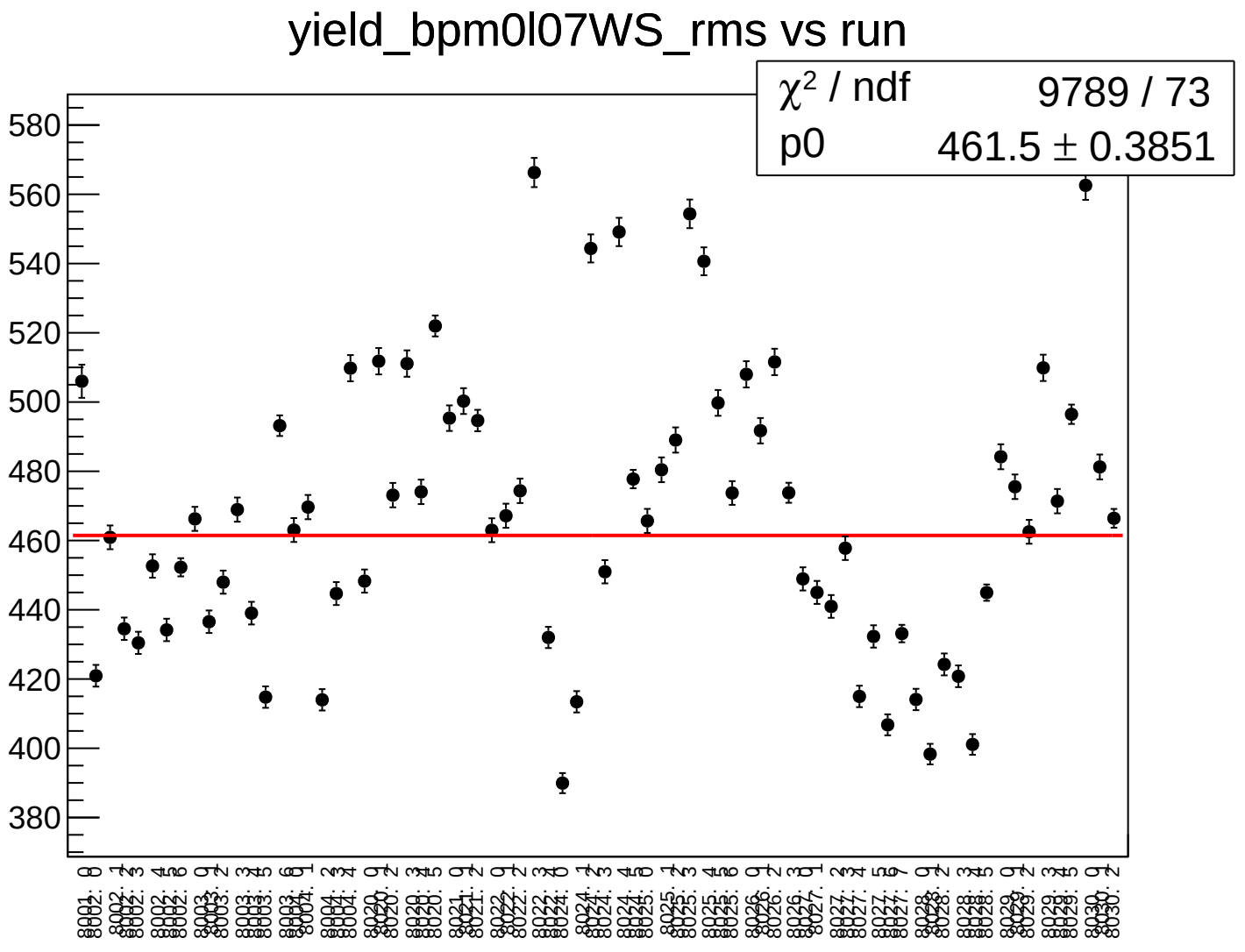

yield_bpm0l05WS_rms vs run
χ² / ndf 3213 / 73
p0 291.7 ± 0.2428
330
320
310
300
290
280
270
260

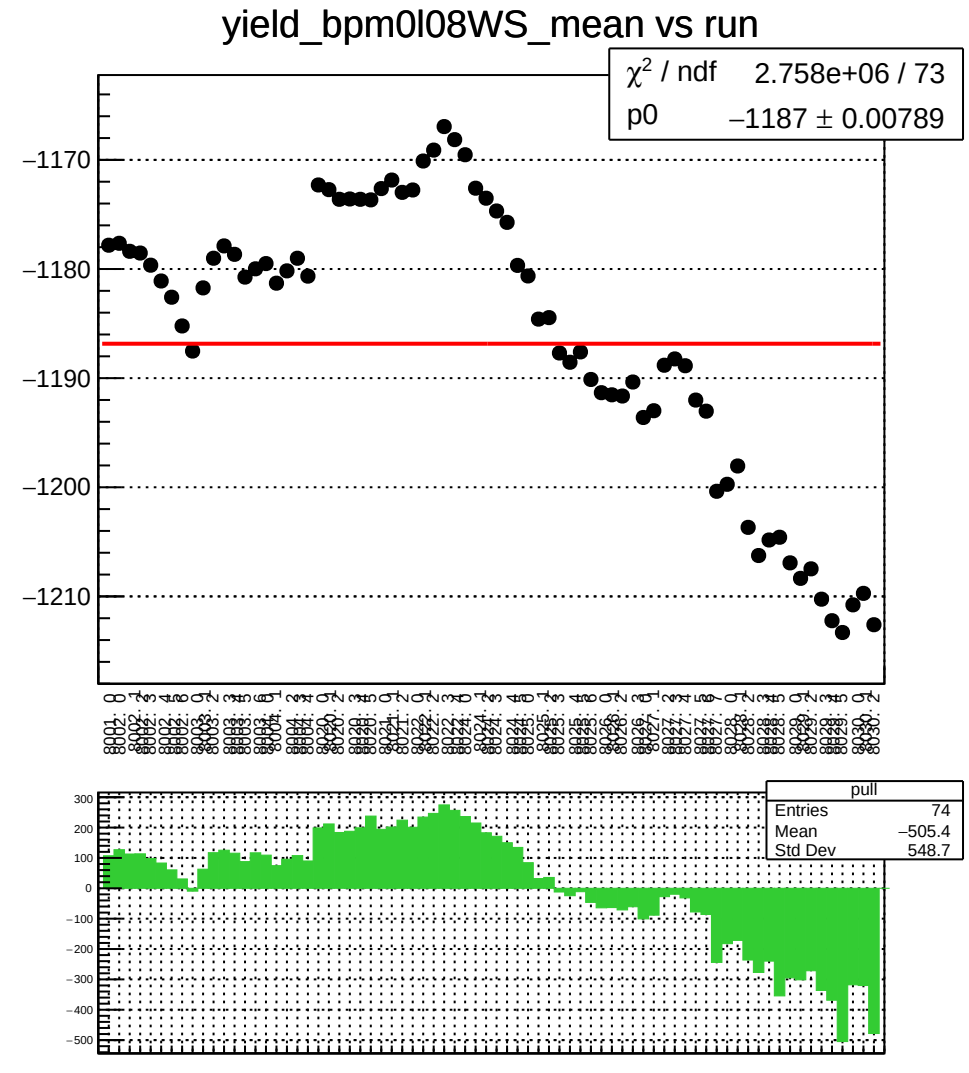

yield_bpm0l06WS_mean vs run
χ² / ndf 3.512e+05 / 73
p0 2394 ± 0.01661
2410
2405
2400
2395
2390
2385
2380
2375
pull
Entries 74
Mean −696.8
Std Dev 736.7
100
50
0
−50
−100
−150
pull1D
Entries 74
Mean 6.916
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

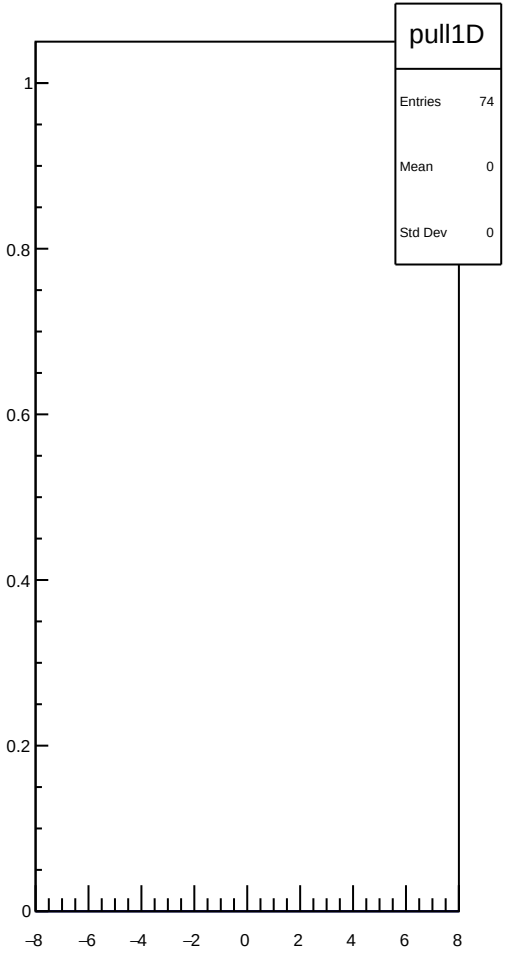

yield_bpm0l06WS_rms vs run
χ² / ndf 3387 / 73
p0 14.11 ± 0.01174
15.5
15
14.5
14
13.5
13
12.5
12

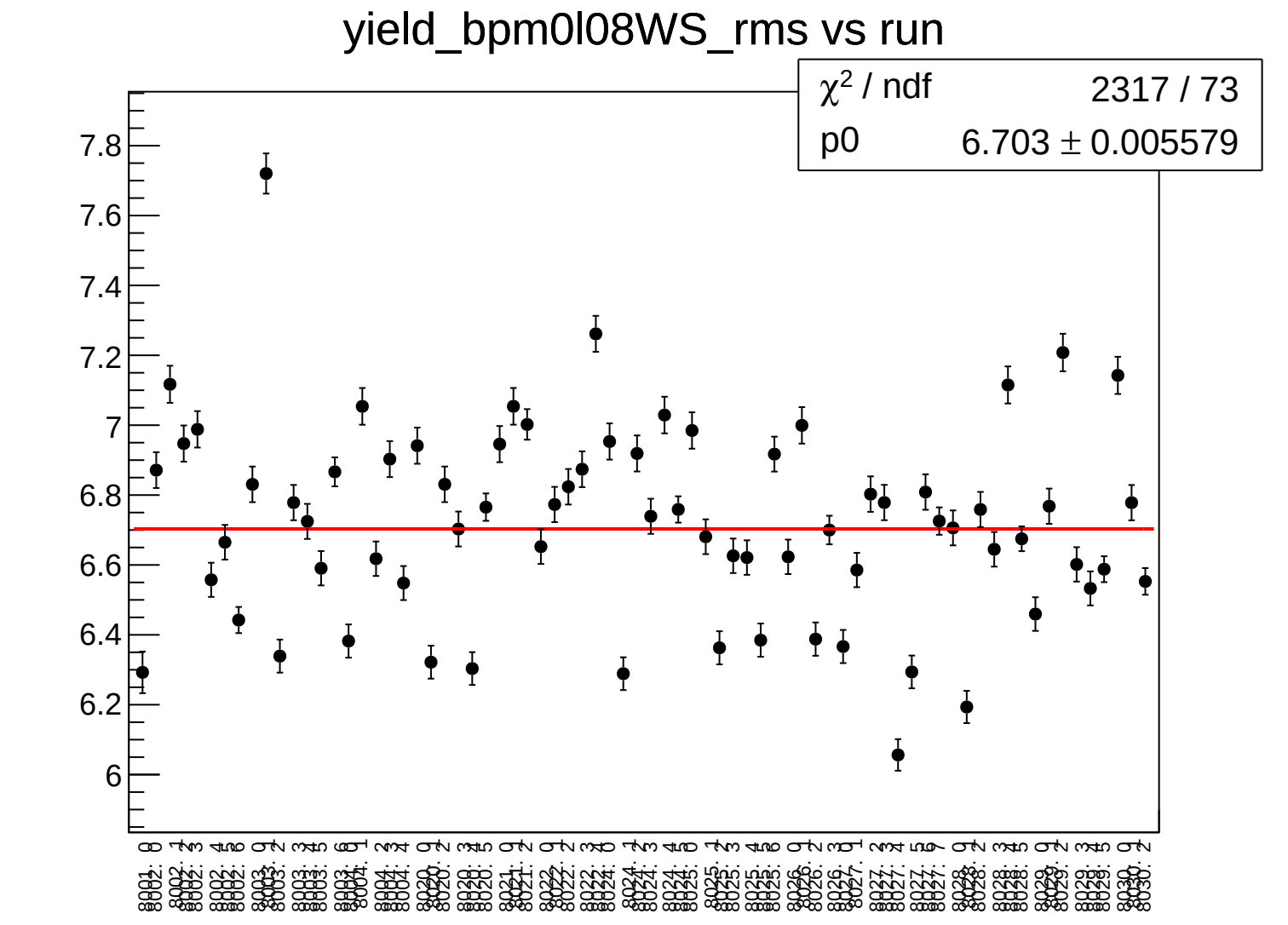

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 1.851e+05 / 73
p0 1.448e+05 ± 0.5446
145.2
145.1
145
144.9
144.8
144.7
144.6
144.5
144.4
144.3
pull
Entries 74
Mean 4.733
Std Dev 85.77
80
60
40
20
0
−20
−40
−60
−80
−100
−120

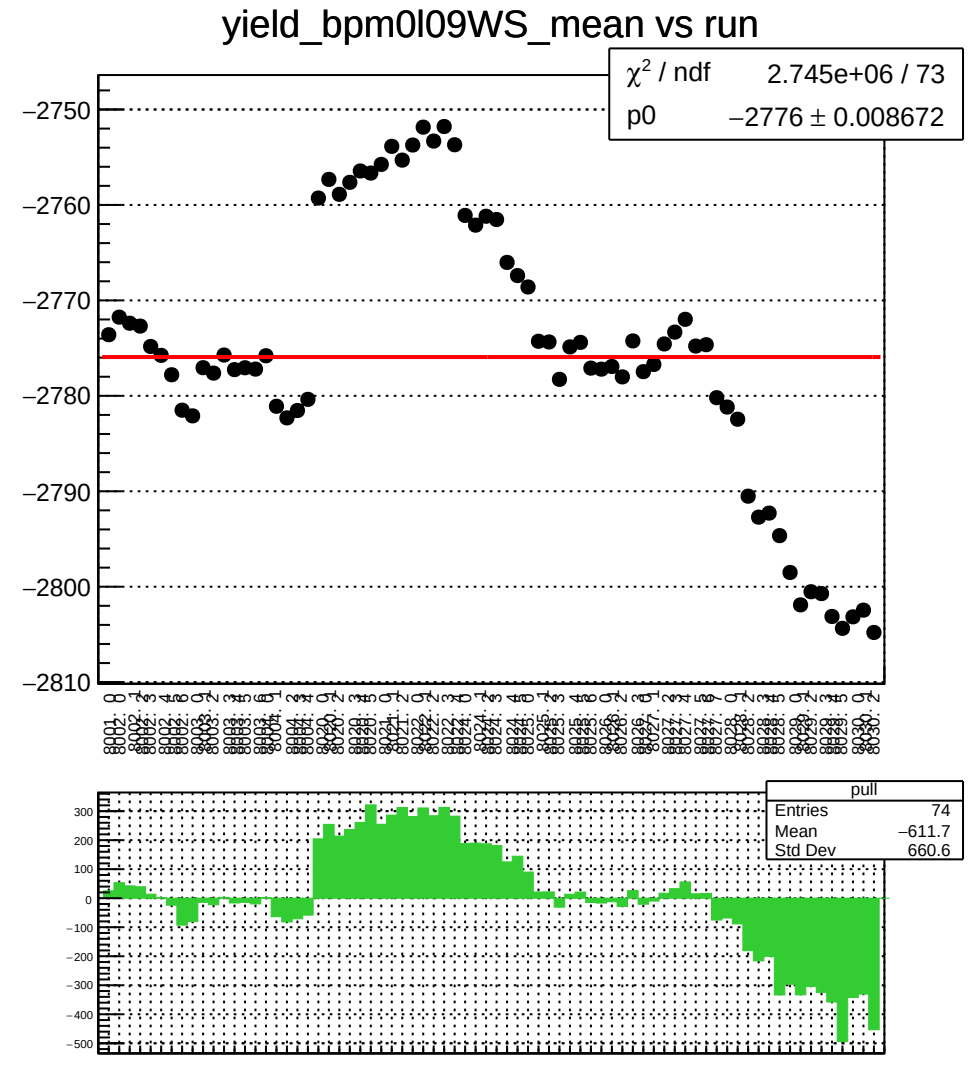

pull1D
Entries 74
Mean 6.586
Std Dev 1.327
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

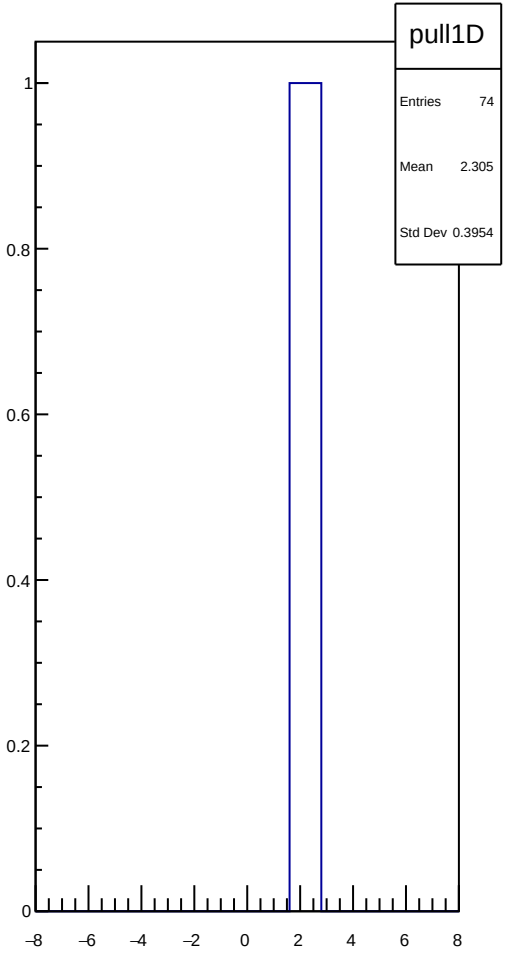

yield_bpm0l07WS_rms vs run
χ² / ndf 9789 / 73
p0 461.5 ± 0.3851
580
560
540
520
500
480
460
440
420
400
380

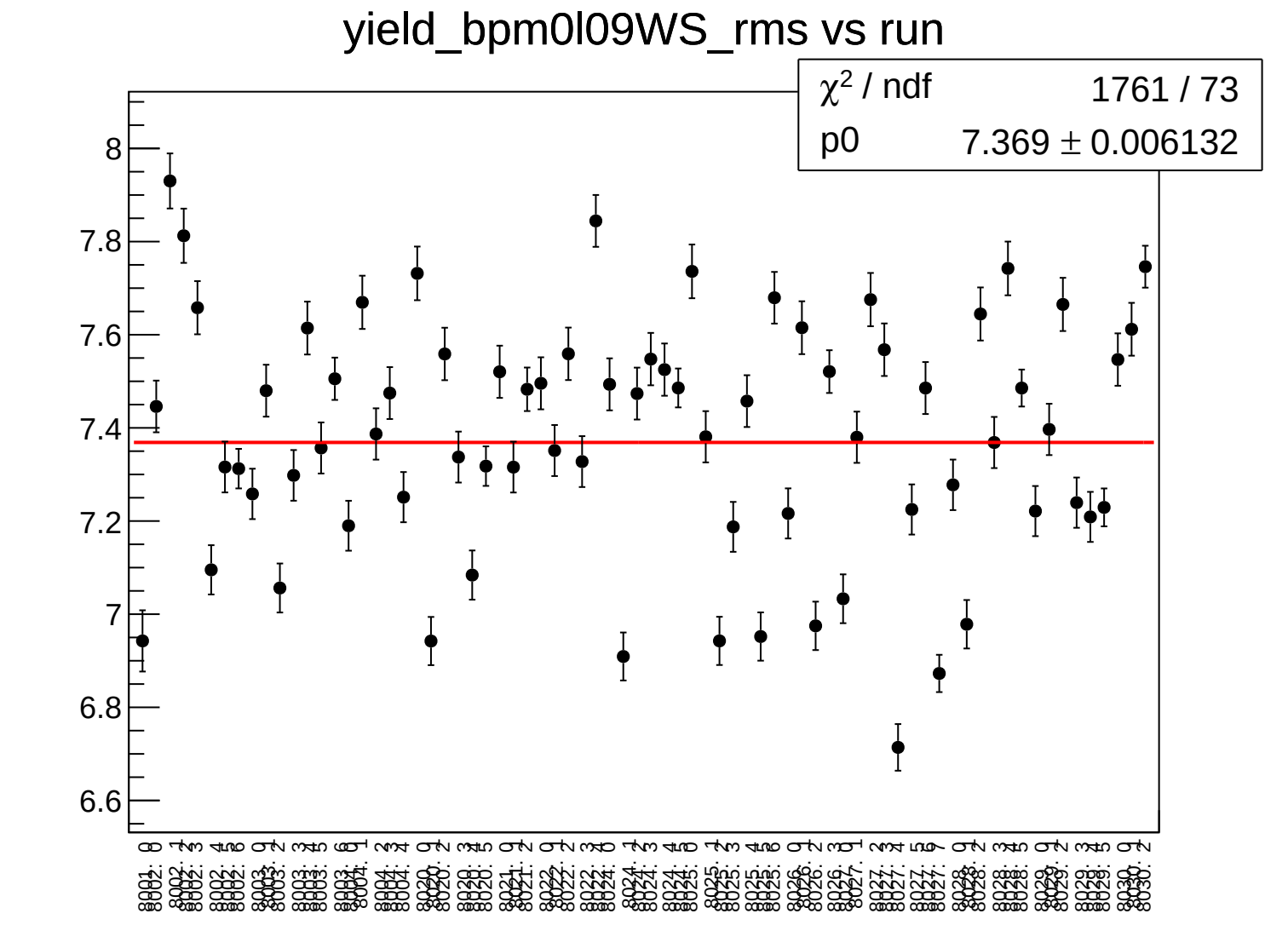

yield_bpm0l08WS_mean vs run
χ² / ndf 2.758e+06 / 73
p0 −1187 ± 0.00789
−1170
−1180
−1190
−1200
−1210
pull
Entries 74
Mean −505.4
Std Dev 548.7
300
200
100
0
−100
−200
−300
−400
−500

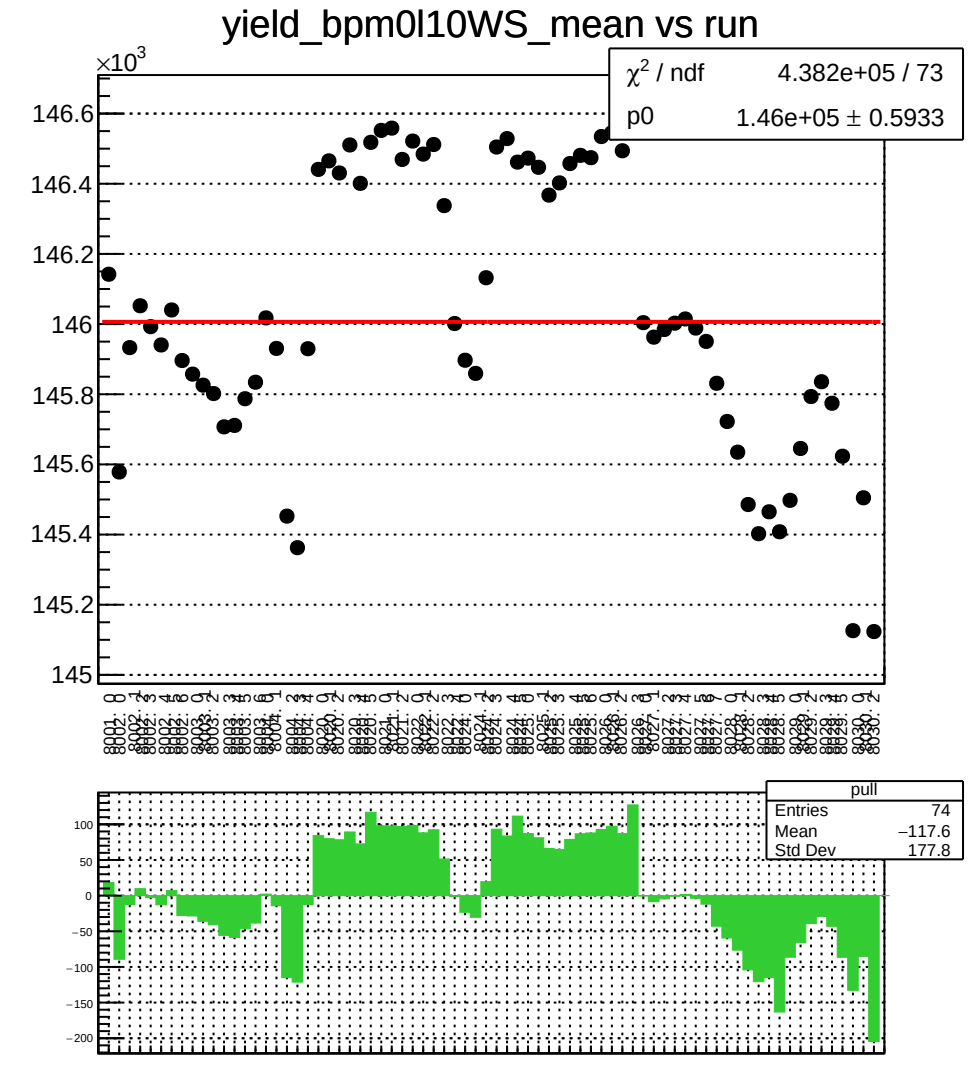

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

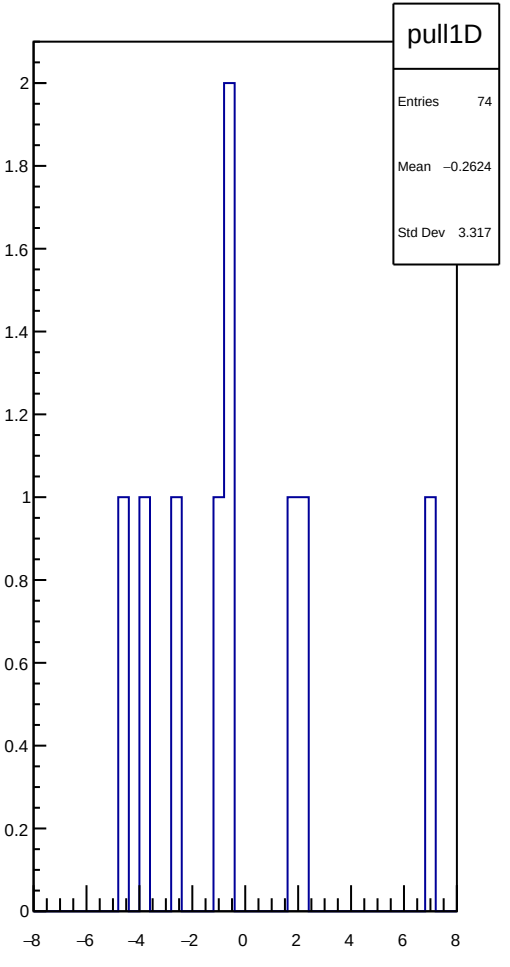

yield_bpm0l08WS_rms vs run
χ^2 / ndf 2317 / 73
p0 6.703 ± 0.005579
7.8
7.6
7.4
7.2
7
6.8
6.6
6.4
6.2
6

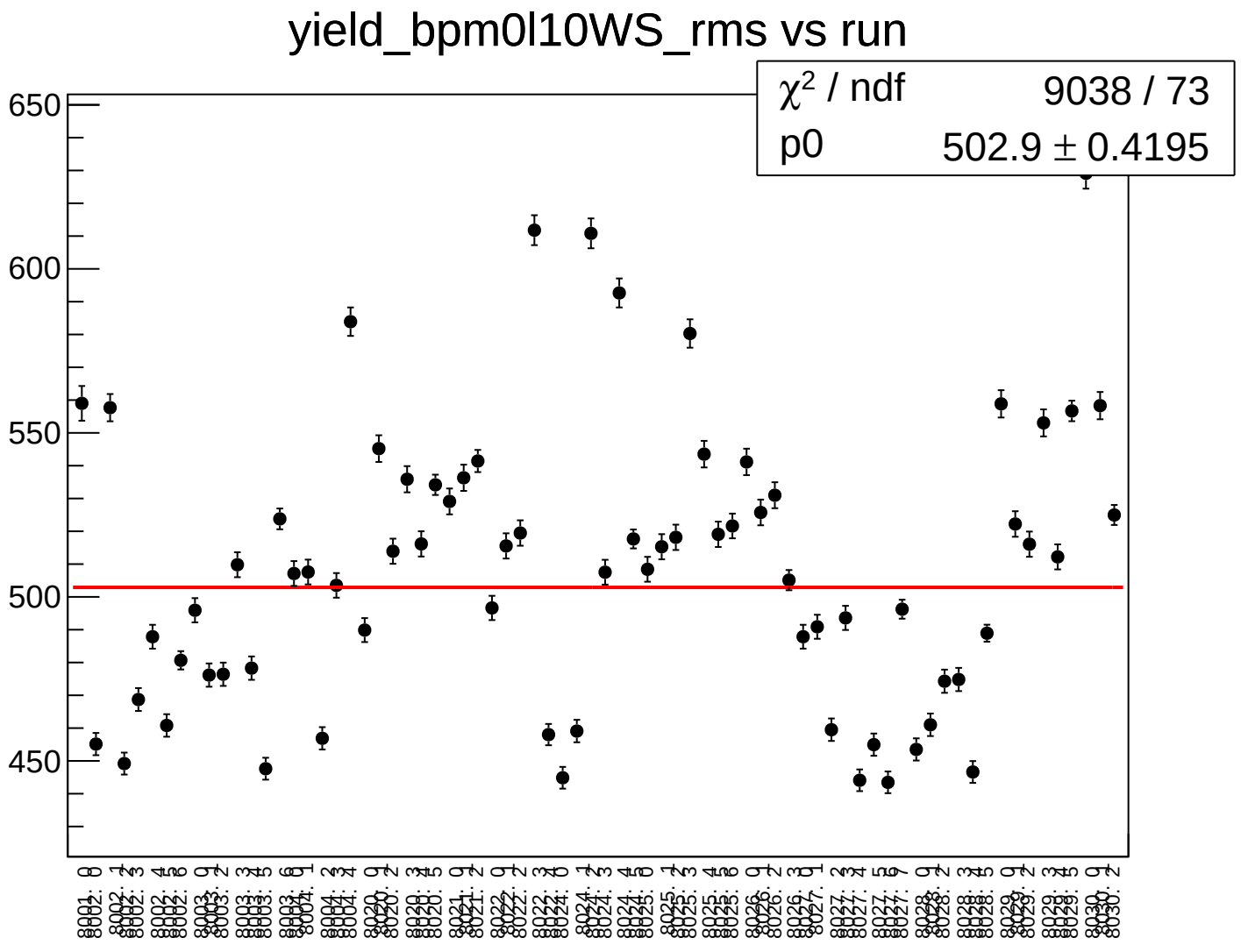

yield_bpm0l09WS_mean vs run
χ² / ndf 2.745e+06 / 73
p0 −2776 ± 0.008672
−2750
−2760
−2770
−2780
−2790
−2800
−2810
pull
Entries 74
Mean −611.7
Std Dev 660.6
300
200
100
0
−100
−200
−300
−400
−500

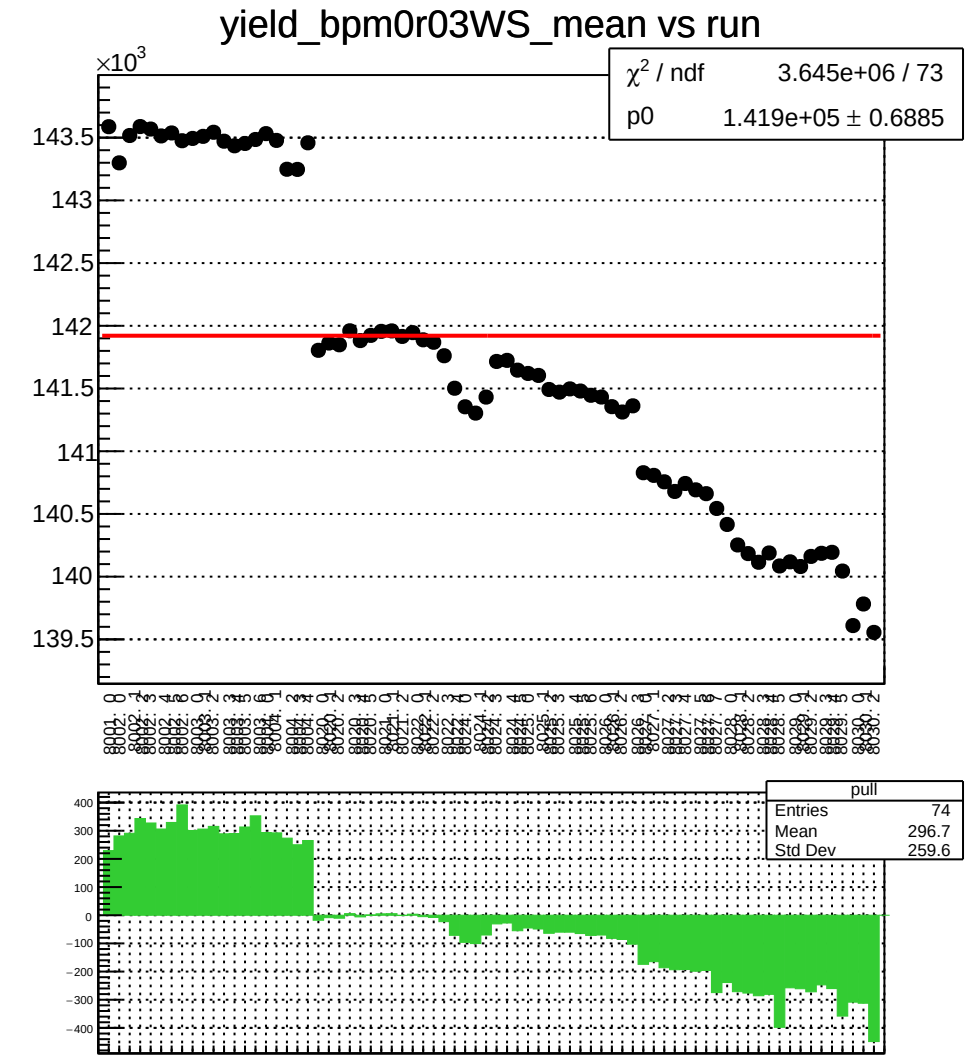

pull1D
Entries 74
Mean 2.305
Std Dev 0.3954
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

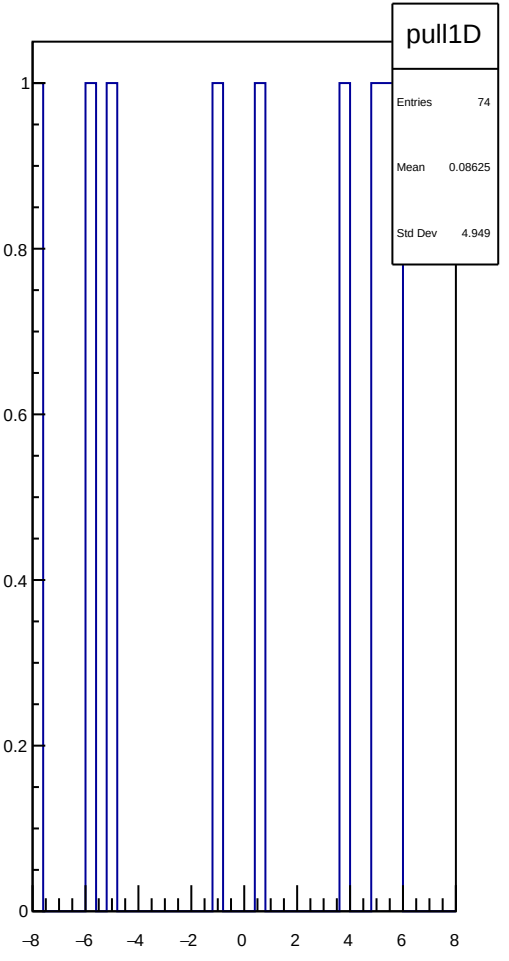

yield_bpm0l09WS_rms vs run
χ² / ndf 1761 / 73
p0 7.369 ± 0.006132
8
7.8
7.6
7.4
7.2
7
6.8
6.6

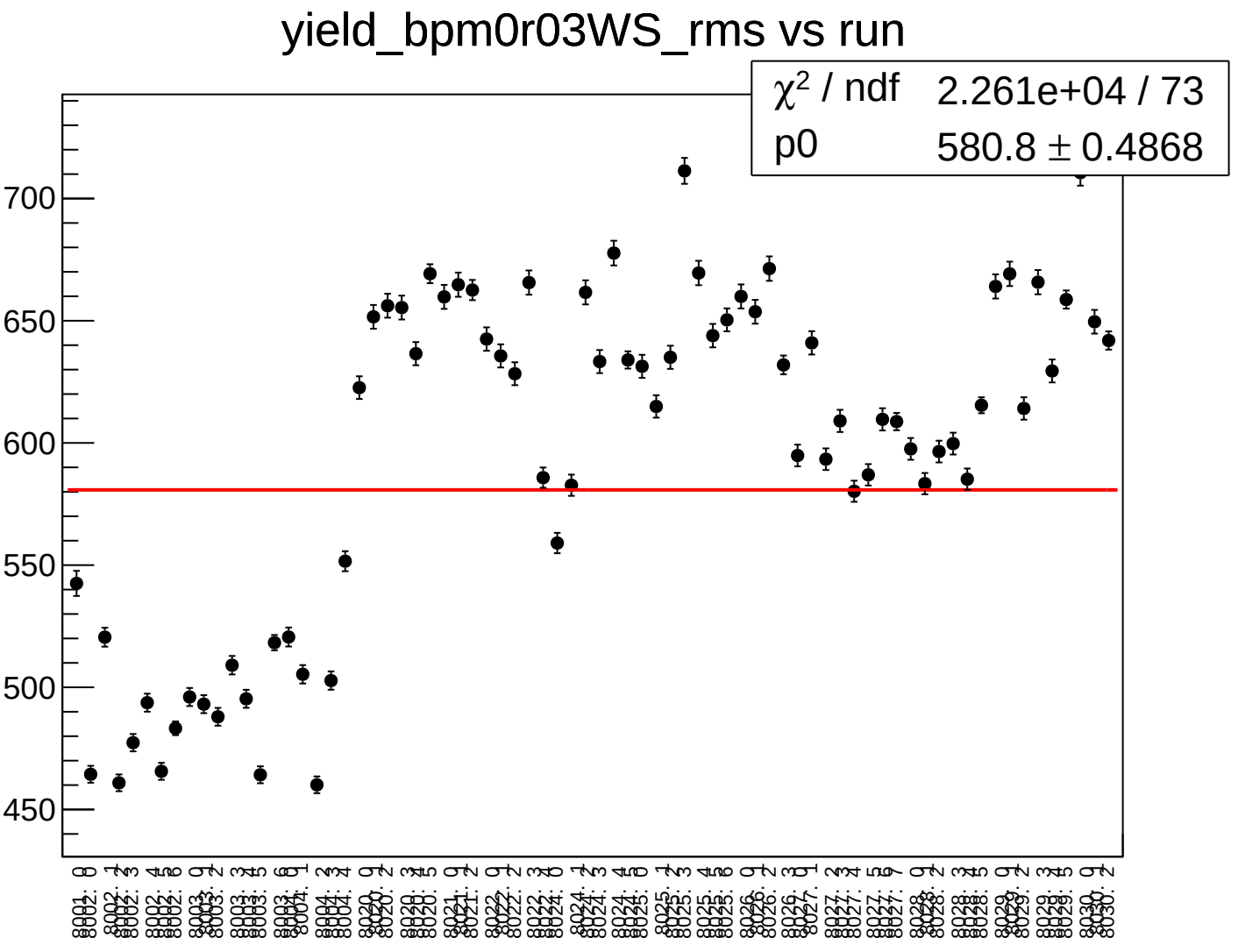

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 4.382e+05 / 73
p0 1.46e+05 ± 0.5933
146.6
146.4
146.2
146
145.8
145.6
145.4
145.2
145
pull
Entries 74
Mean −117.6
Std Dev 177.8
100
50
0
−50
−100
−150
−200

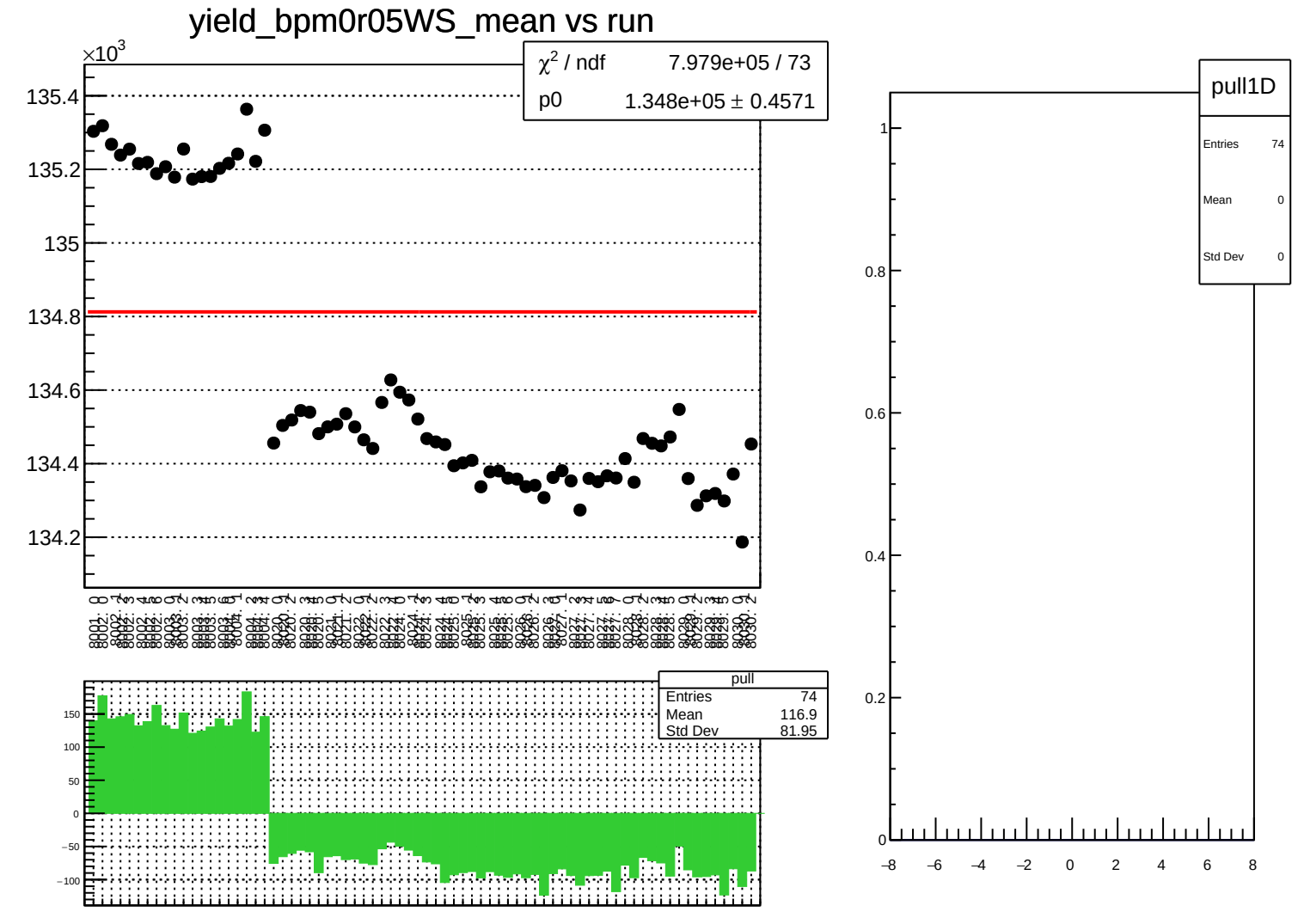

pull1D
Entries 74
Mean −0.2624
Std Dev 3.317
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

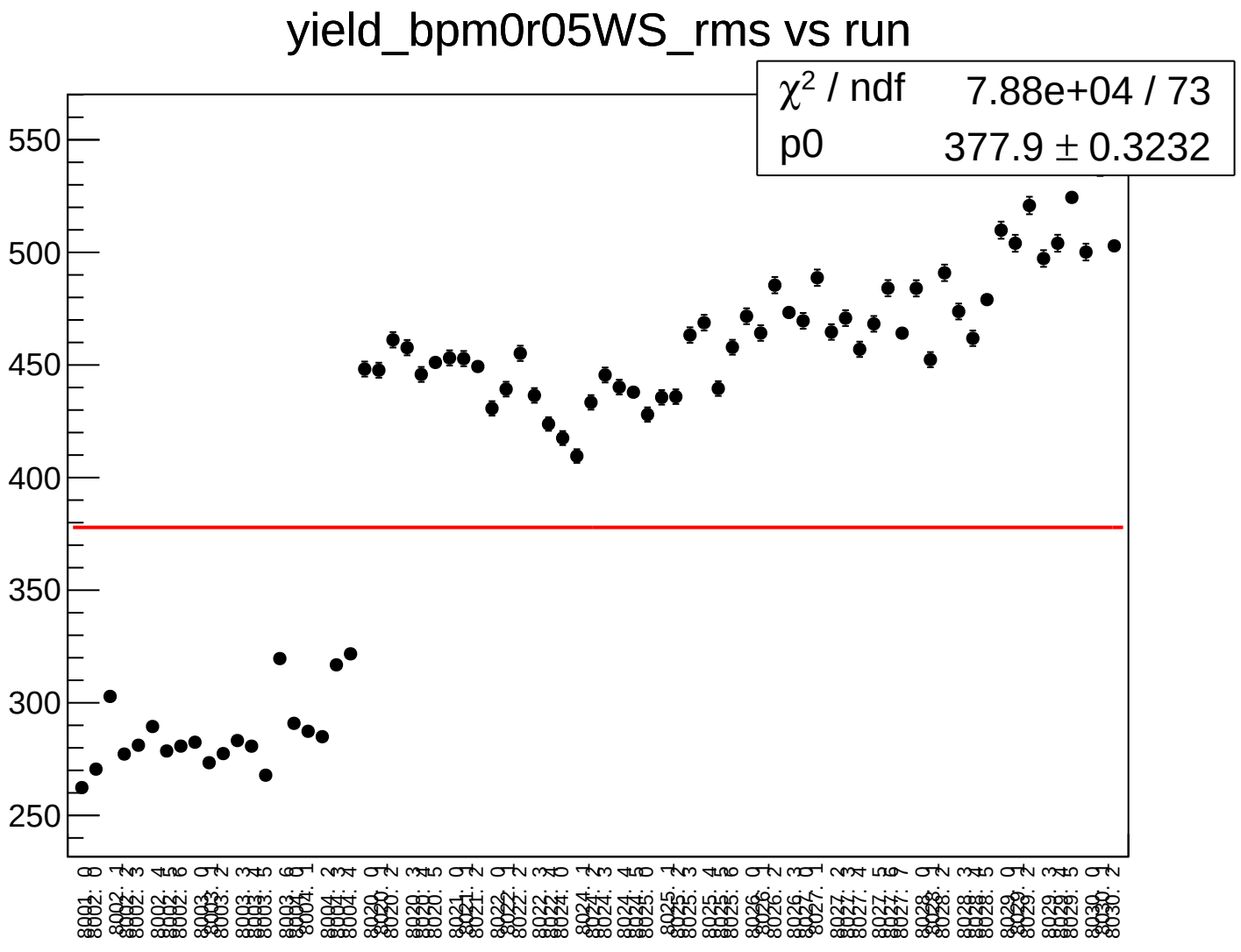

yield_bpm0l10WS_rms vs run
χ² / ndf 9038 / 73
p0 502.9 ± 0.4195
650
600
550
500
450

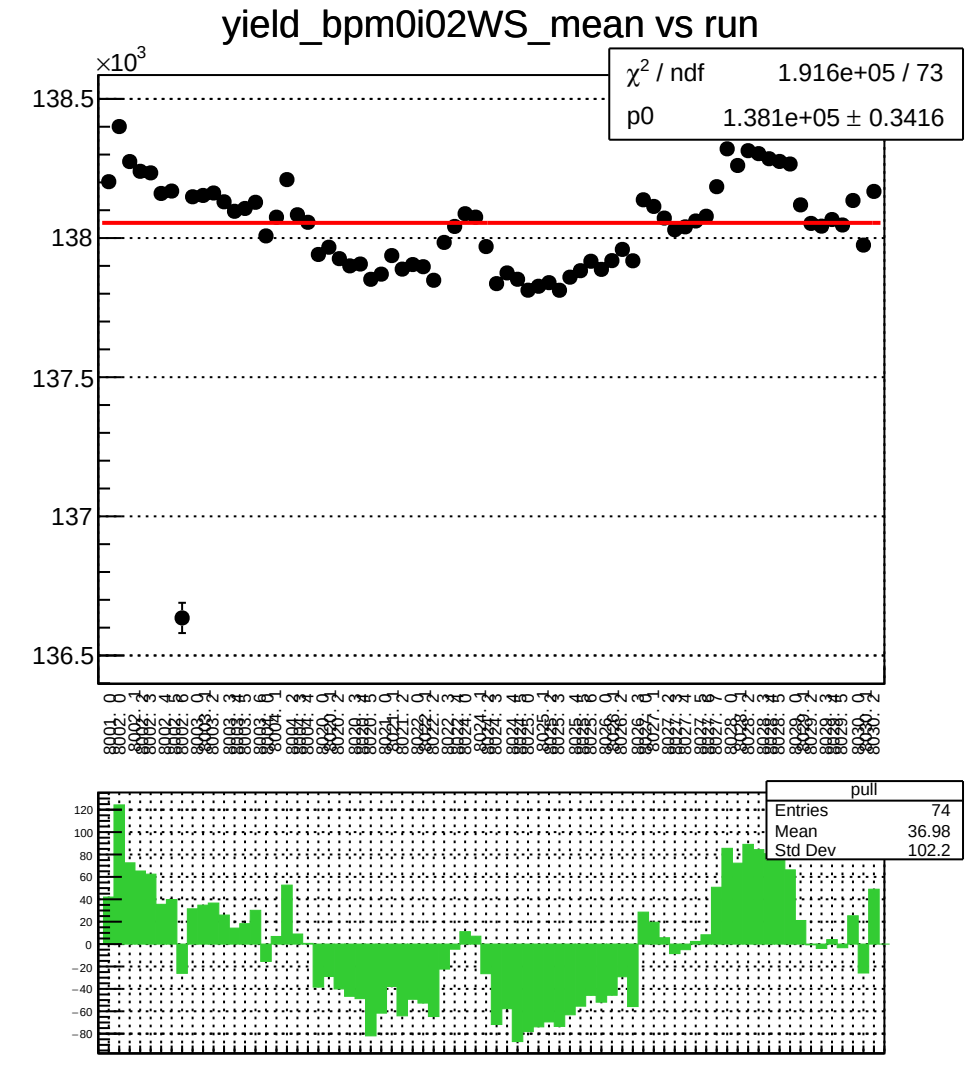

yield_bpm0r03WS_mean vs run
×10^3
χ^2 / ndf 3.645e+06 / 73
p0 1.419e+05 ± 0.6885
143.5
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 74
Mean 296.7
Std Dev 259.6
400
300
200
100
0
−100
−200
−300
−400

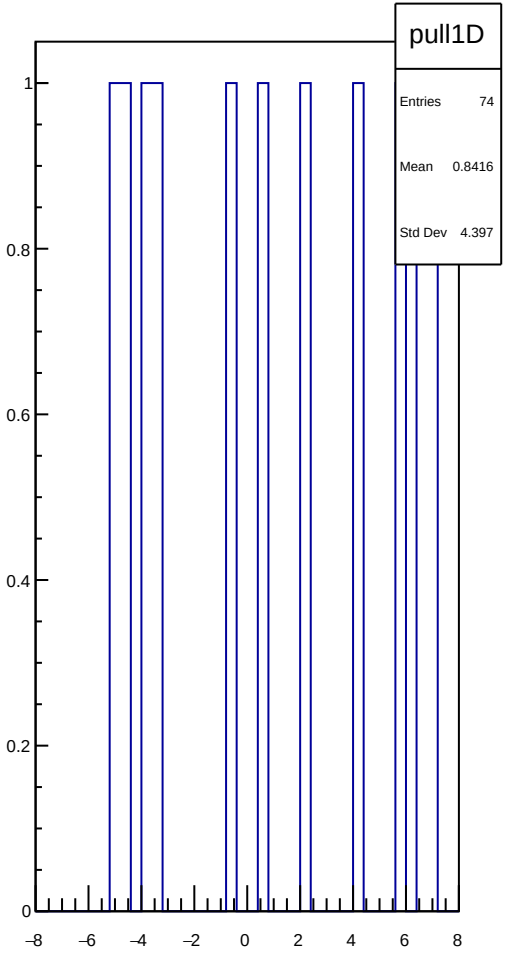

pull1D
Entries 74
Mean 0.08625
Std Dev 4.949
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

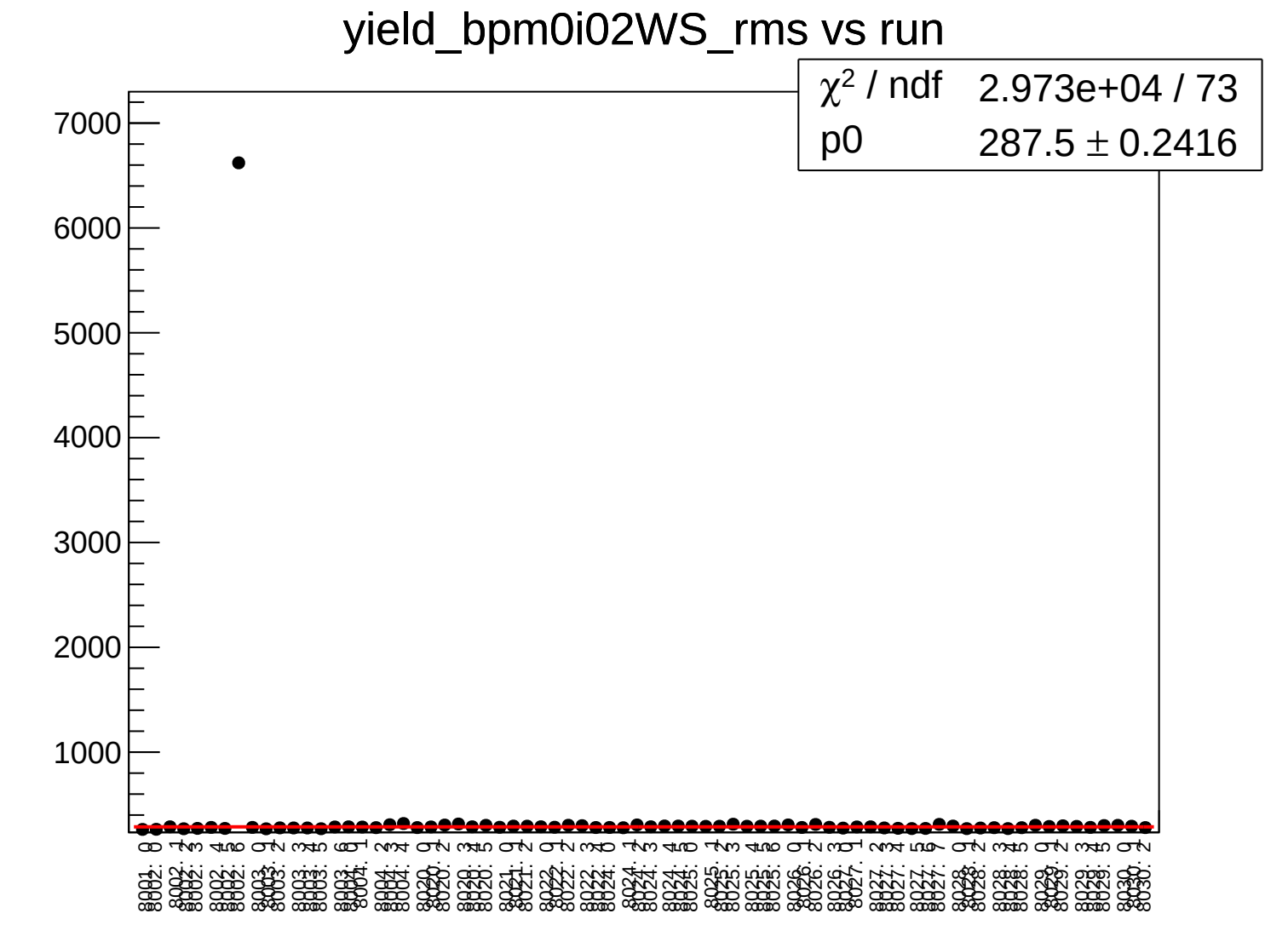

yield_bpm0r03WS_rms vs run
χ² / ndf 2.261e+04 / 73
p0 580.8 ± 0.4868
700
650
600
550
500
450

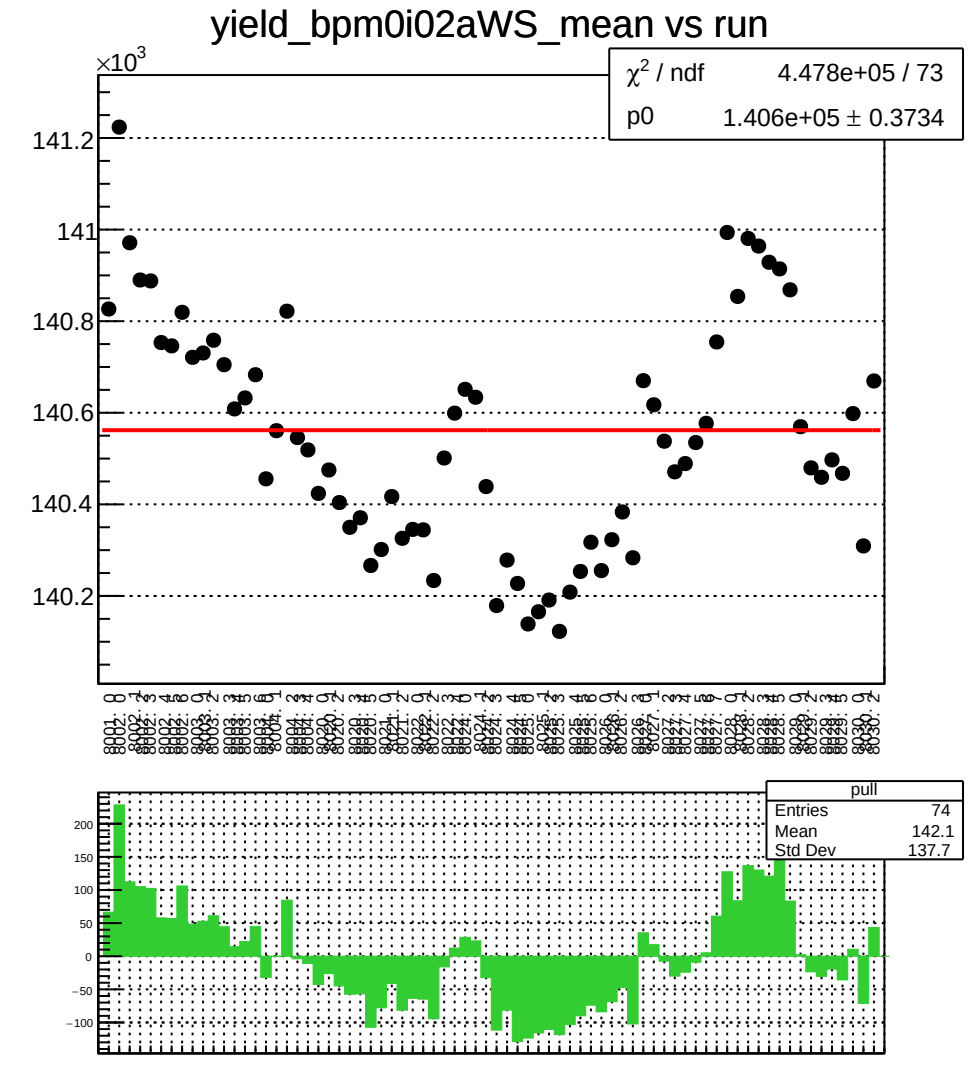

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 7.979e+05 / 73
p0 1.348e+05 ± 0.4571
135.4
135.2
135
134.8
134.6
134.4
134.2
pull
Entries 74
Mean 116.9
Std Dev 81.95
150
100
50
0
−50
−100
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

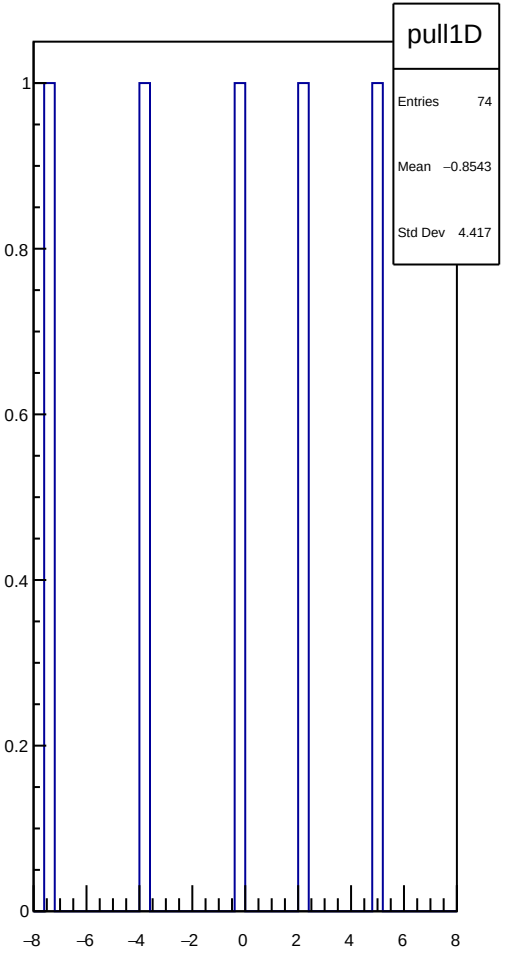

yield_bpm0r05WS_rms vs run
χ² / ndf 7.88e+04 / 73
p0 377.9 ± 0.3232
550
500
450
400
350
300
250

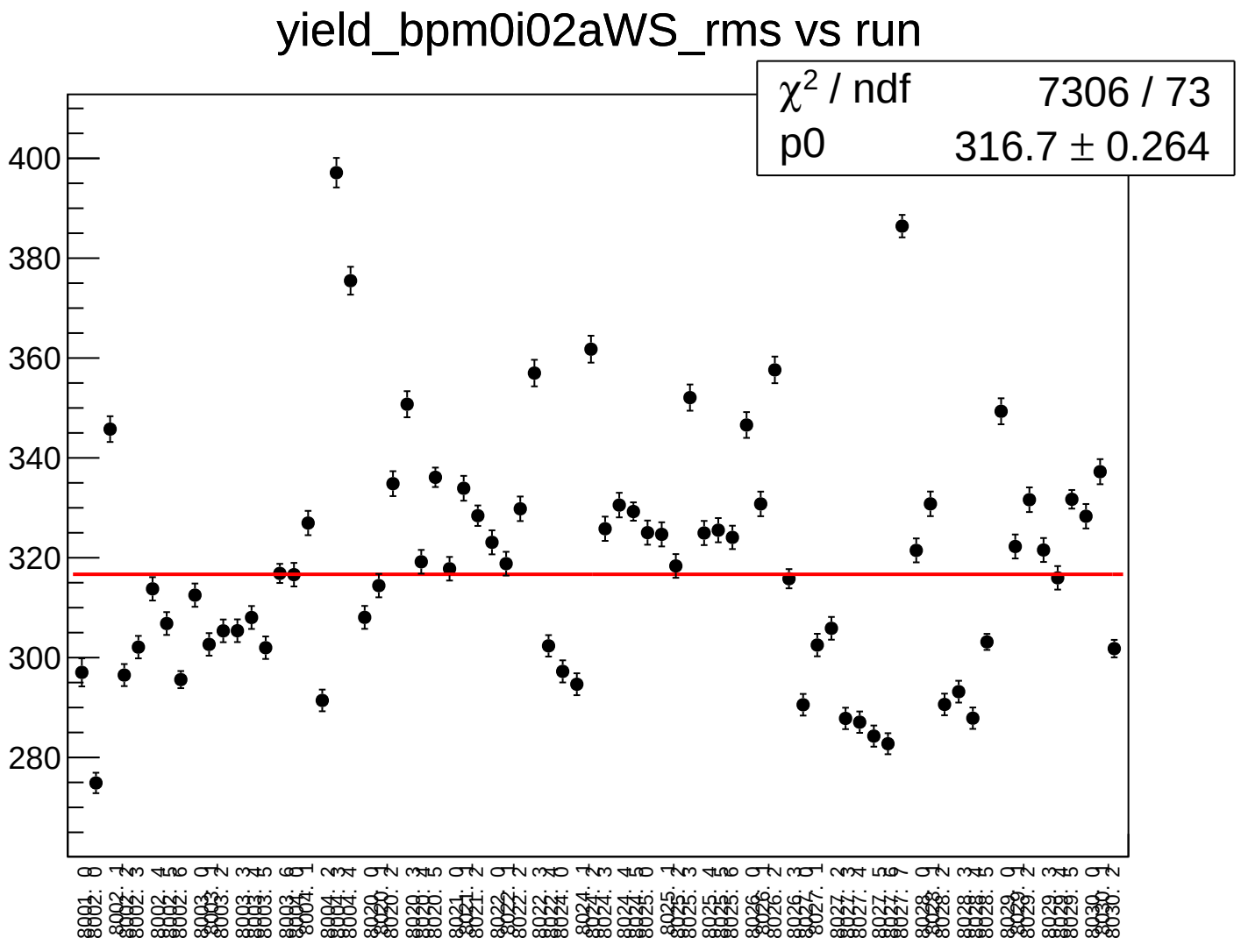

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 1.916e+05 / 73
p0 1.381e+05 ± 0.3416
138.5
138
137.5
137
136.5
pull
Entries 74
Mean 36.98
Std Dev 102.2
120
100
80
60
40
20
0
−20
−40
−60
−80

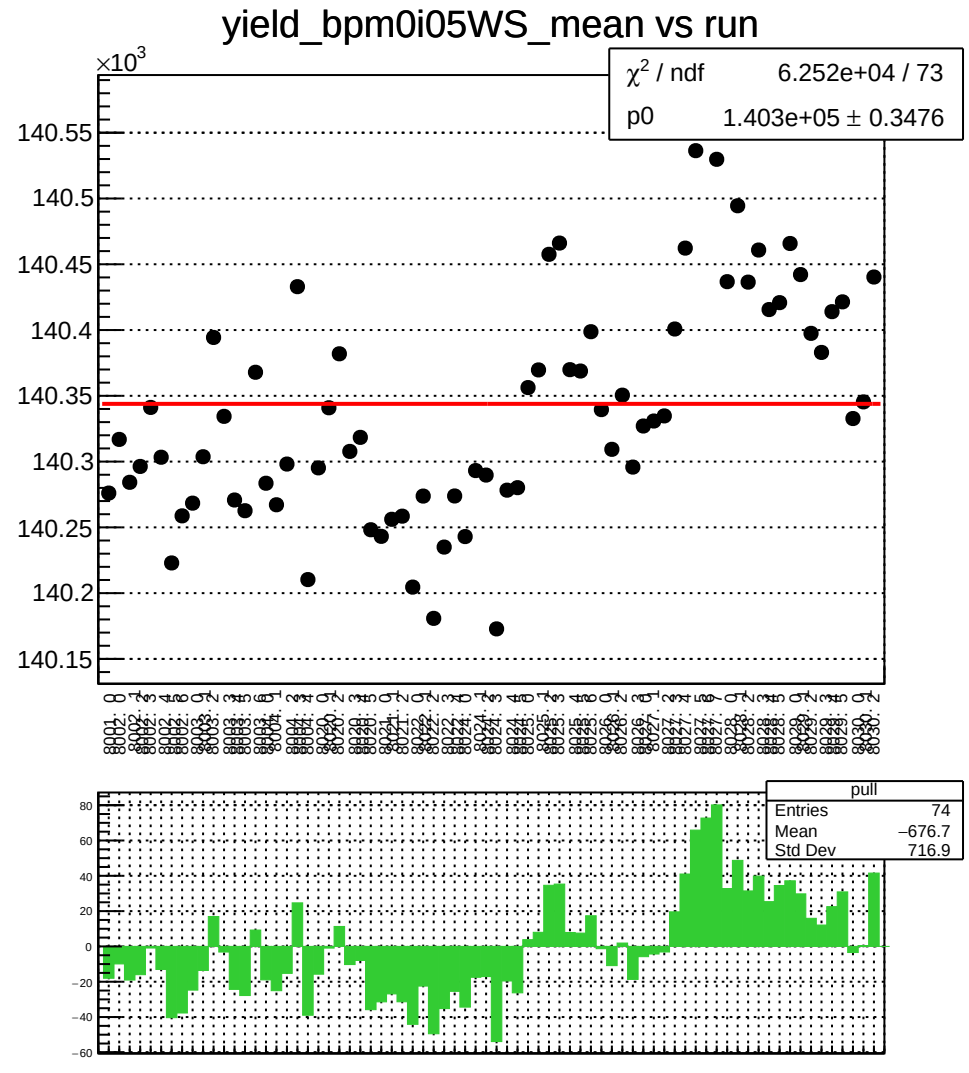

pull1D
Entries 74
Mean 0.8416
Std Dev 4.397
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

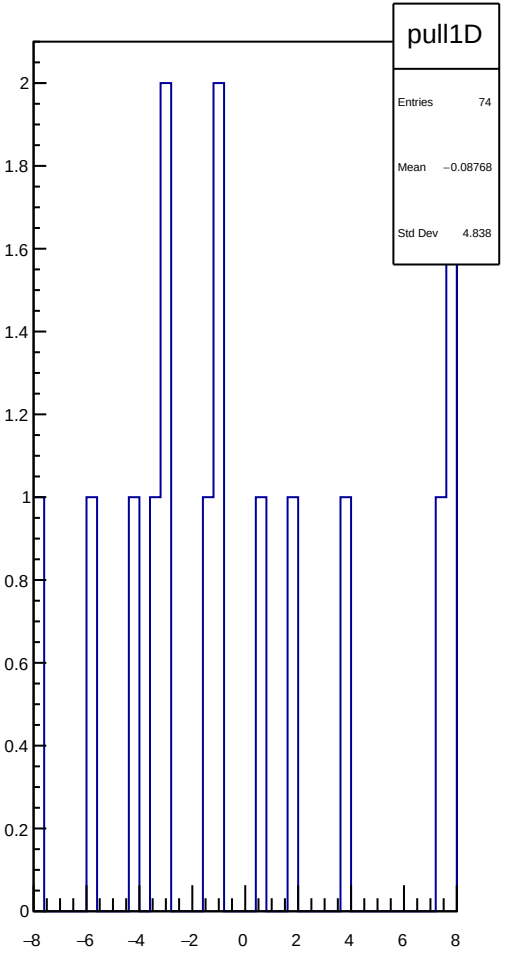

yield_bpm0i02WS_rms vs run
χ² / ndf 2.973e+04 / 73
p0 287.5 ± 0.2416
7000
6000
5000
4000
3000
2000
1000

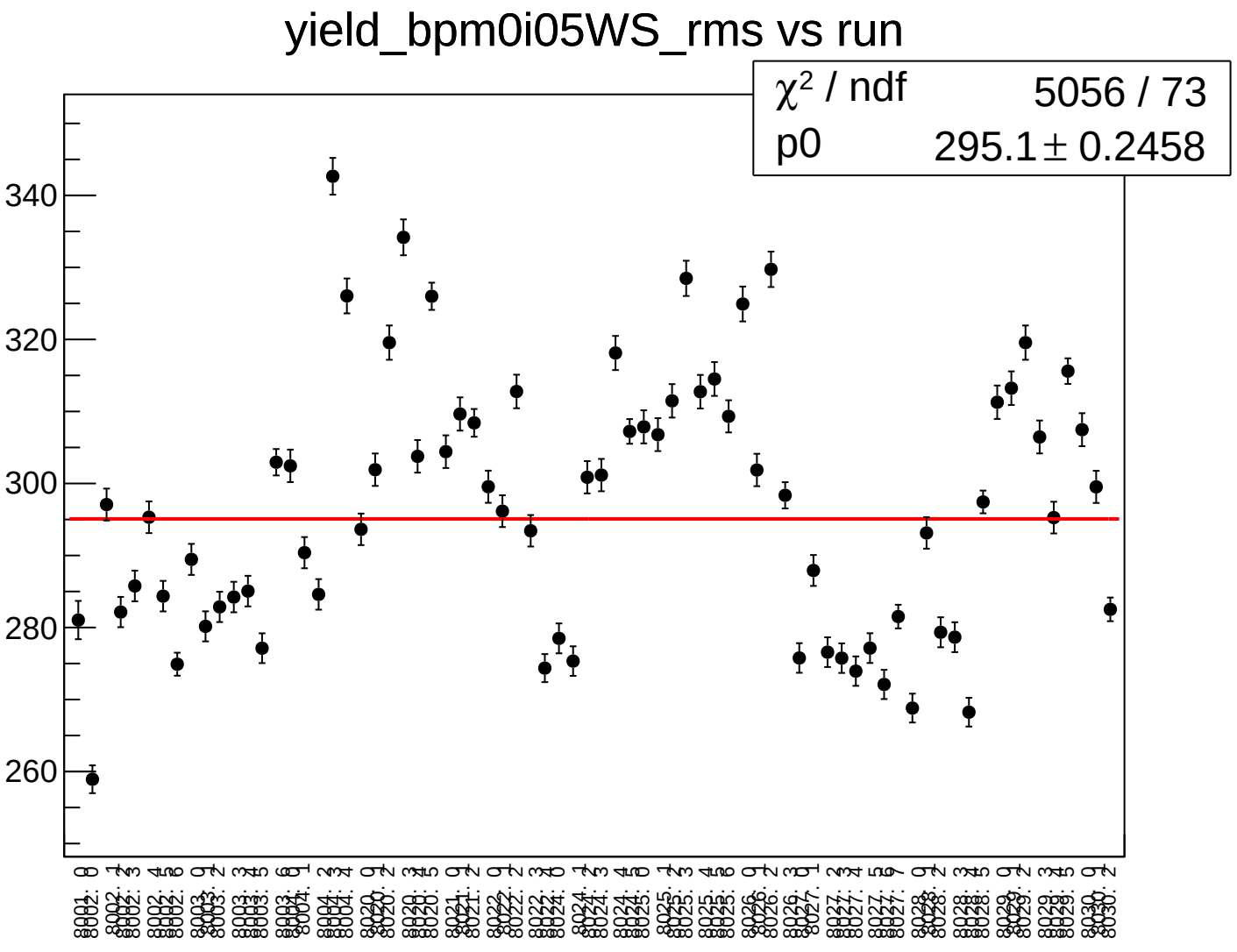

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 4.478e+05 / 73
p0 1.406e+05 ± 0.3734
141.2
141
140.8
140.6
140.4
140.2
pull
Entries 74
Mean 142.1
Std Dev 137.7
200
150
100
50
0
−50
−100

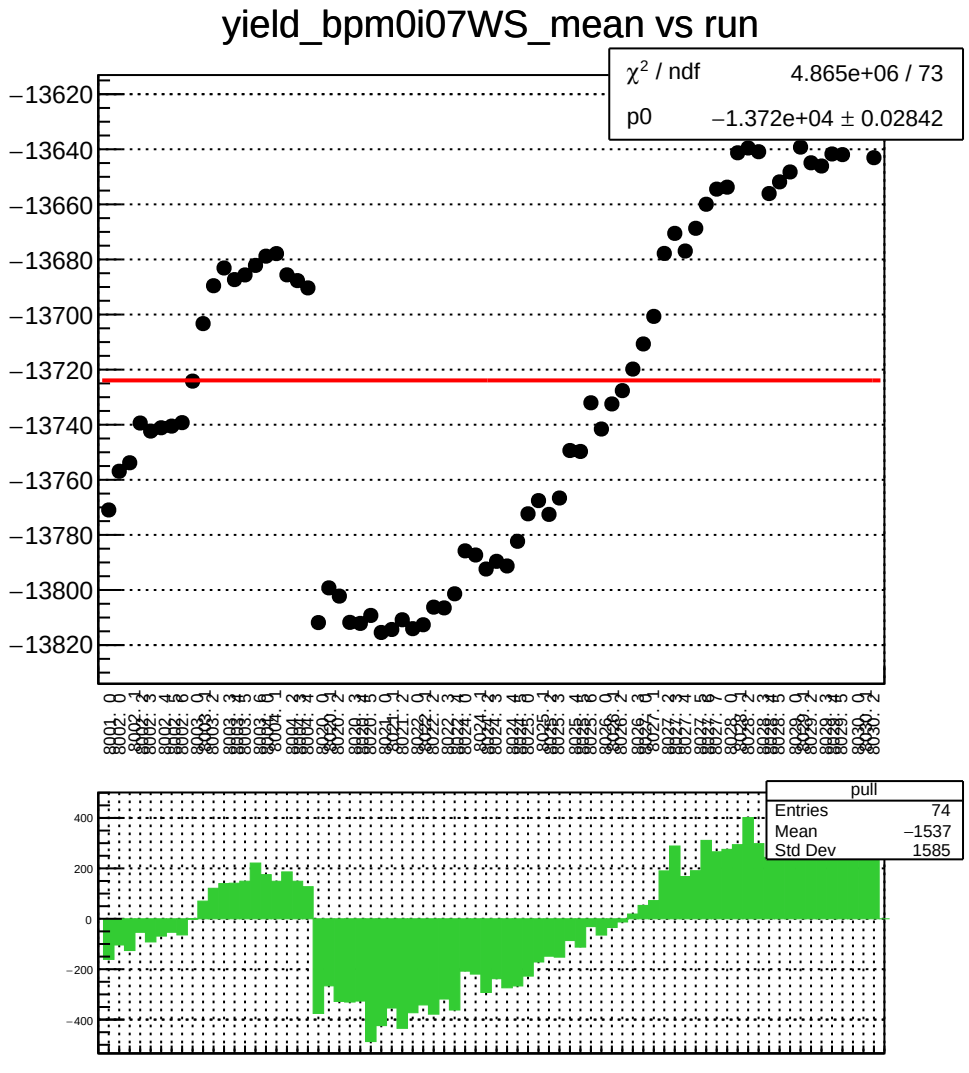

pull1D
Entries 74
Mean −0.8543
Std Dev 4.417
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

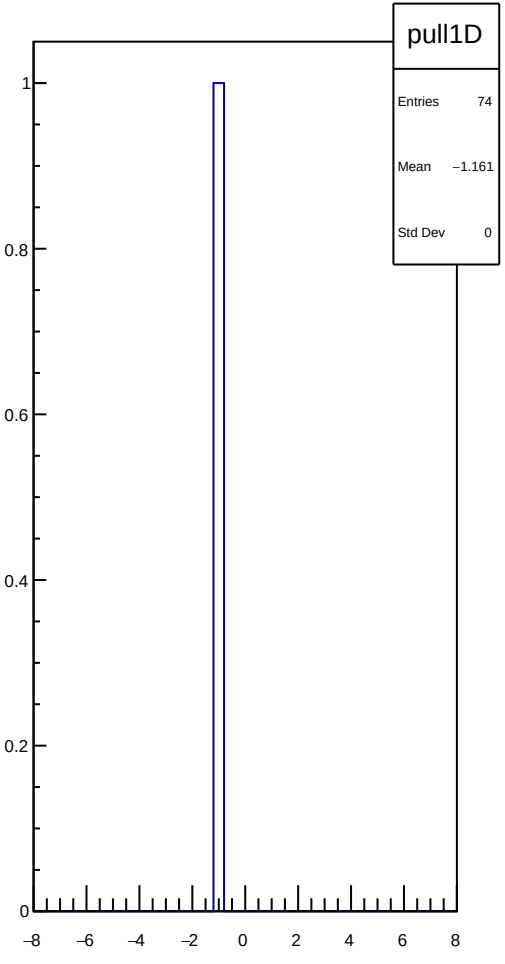

yield_bpm0i02aWS_rms vs run
χ² / ndf 7306 / 73
p0 316.7 ± 0.264
400
380
360
340
320
300
280

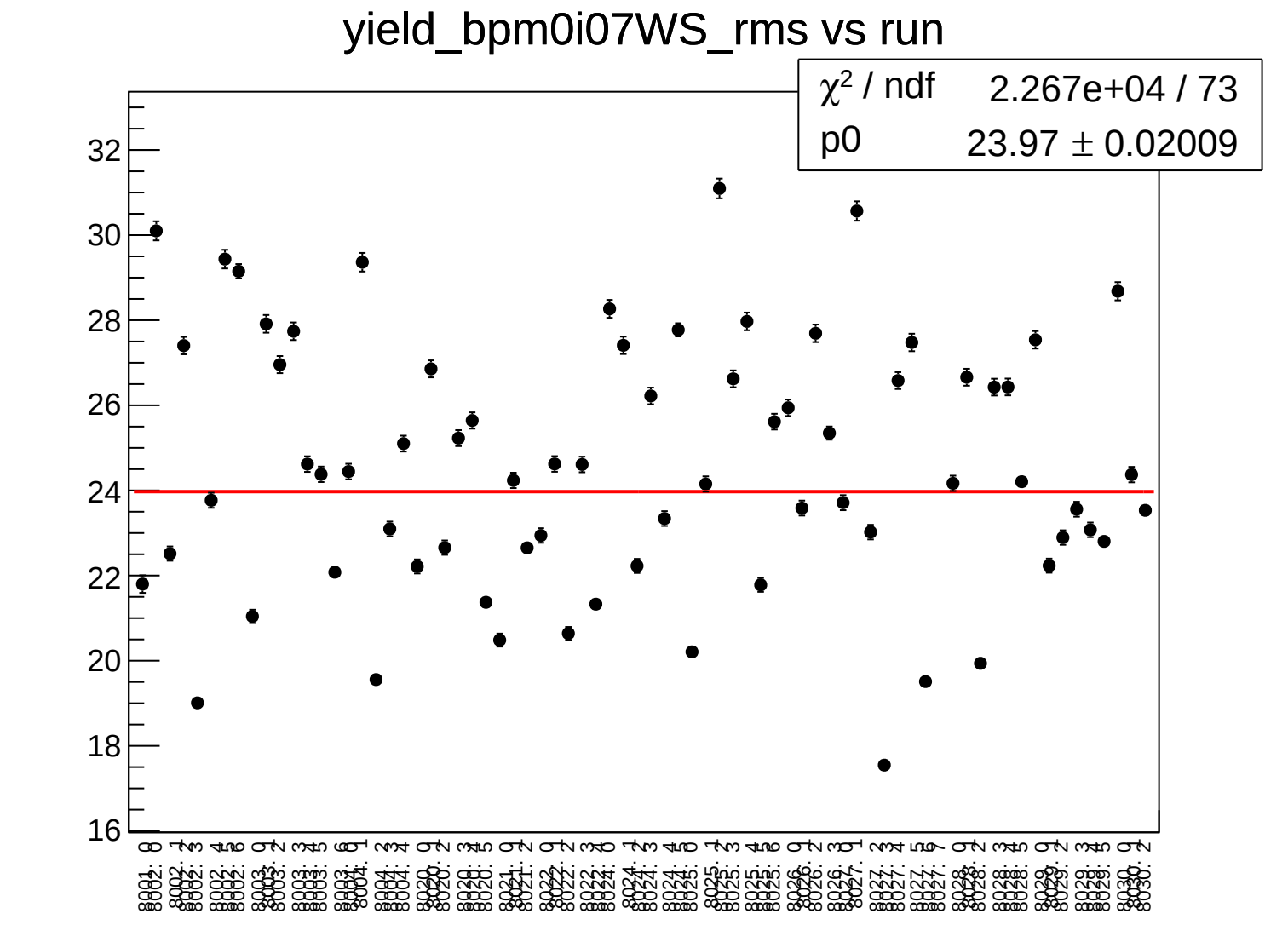

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 6.252e+04 / 73
p0 1.403e+05 ± 0.3476
140.55
140.5
140.45
140.4
140.35
140.3
140.25
140.2
140.15
pull
Entries 74
Mean −676.7
Std Dev 716.9
80
60
40
20
0
−20
−40
−60

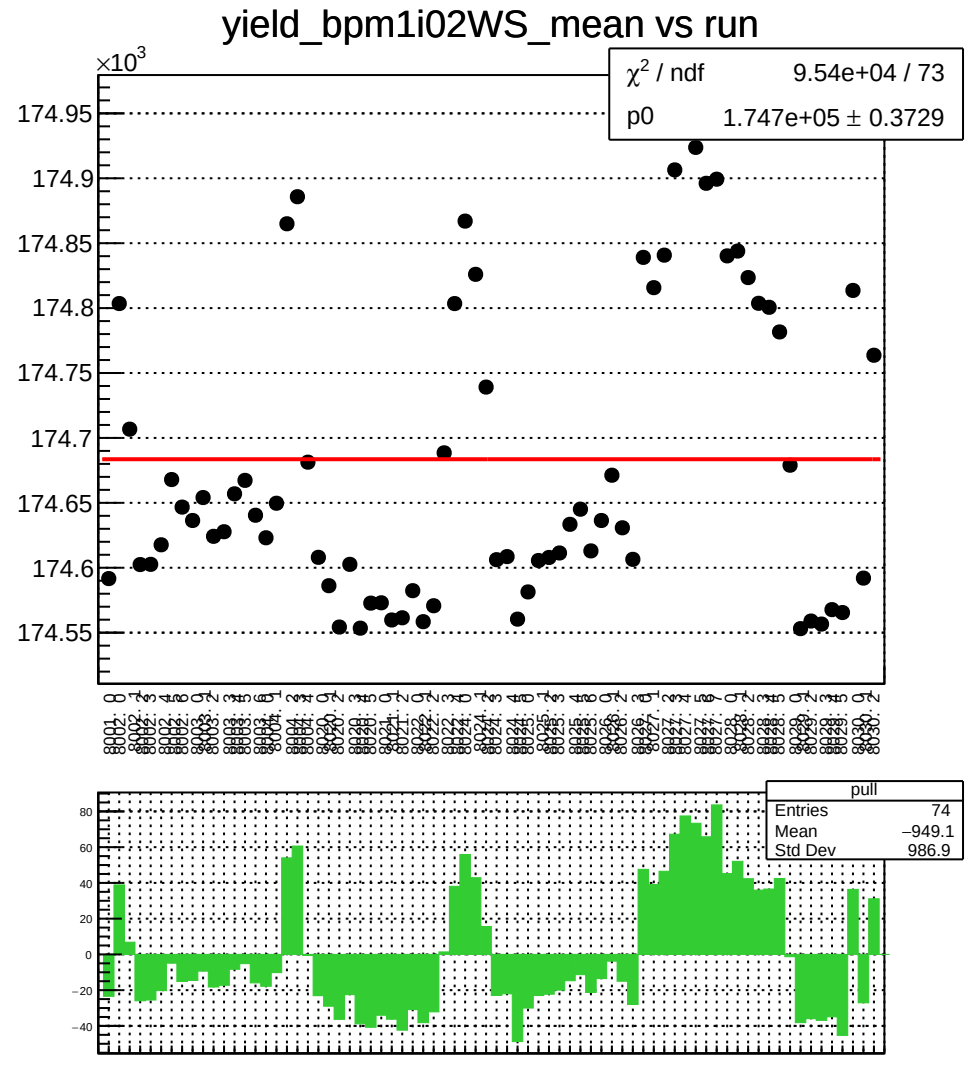

pull1D
Entries 74
Mean −0.08768
Std Dev 4.838
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

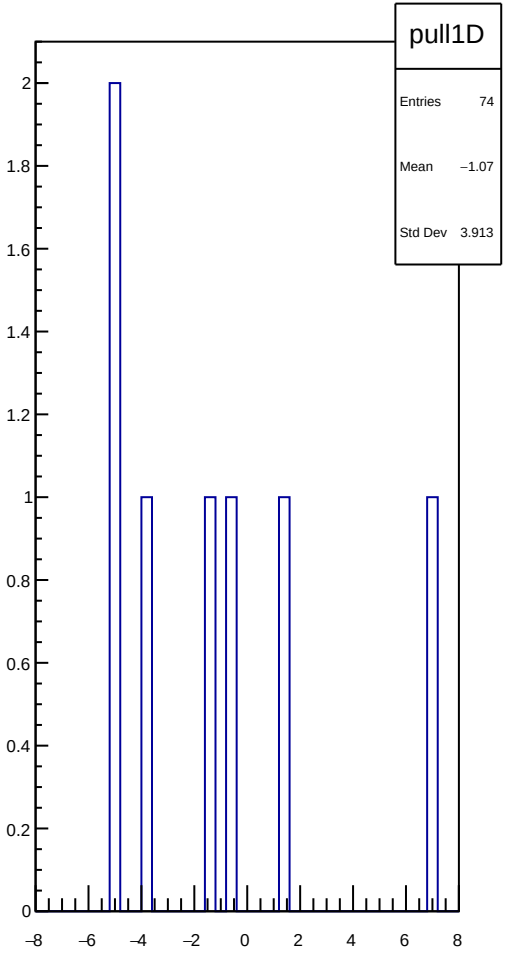

yield_bpm0i05WS_rms vs run
χ² / ndf 5056 / 73
p0 295.1 ± 0.2458
340
320
300
280
260

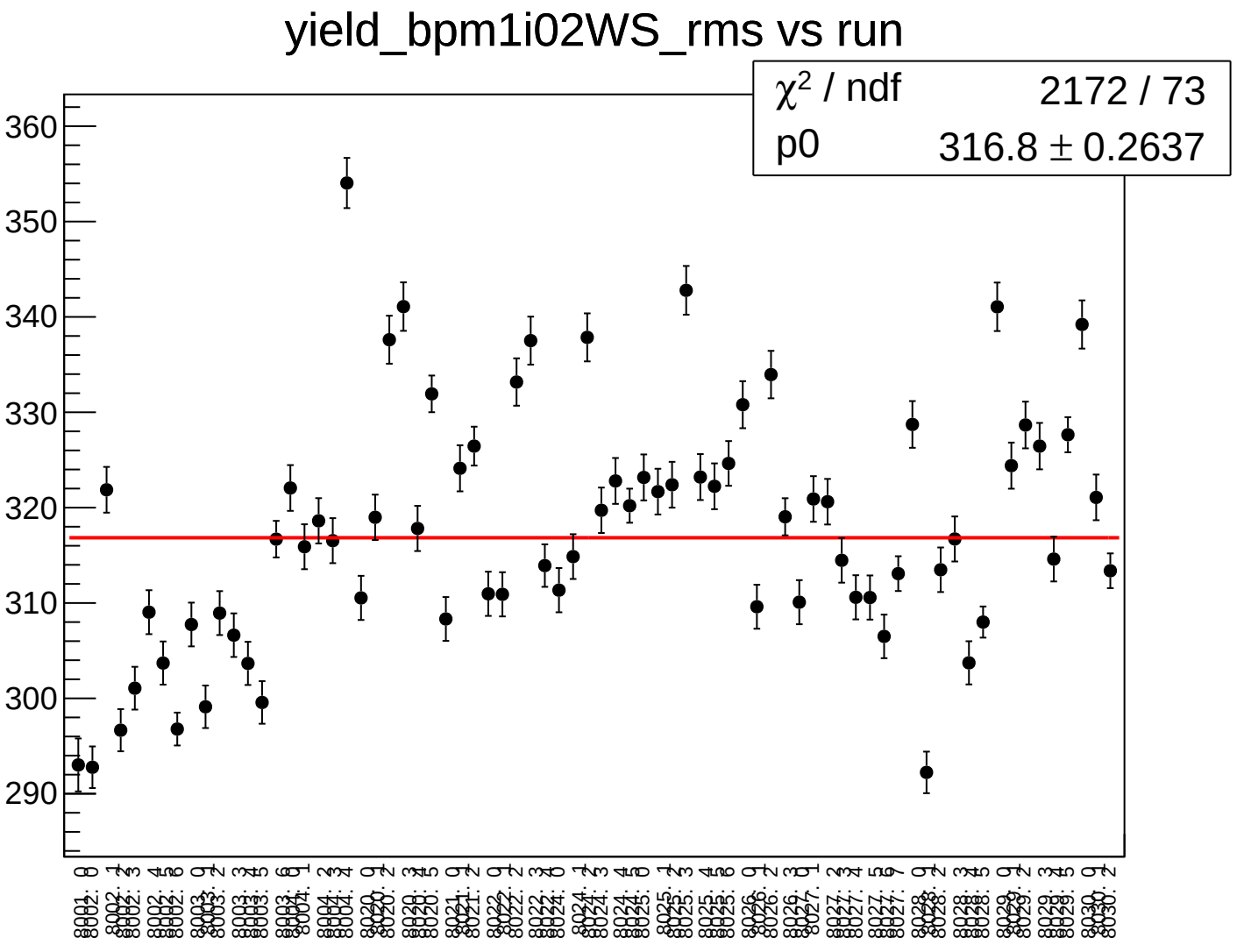

yield_bpm0i07WS_mean vs run
χ² / ndf 4.865e+06 / 73
p0 −1.372e+04 ± 0.02842
pull
Entries 74
Mean −1537
Std Dev 1585

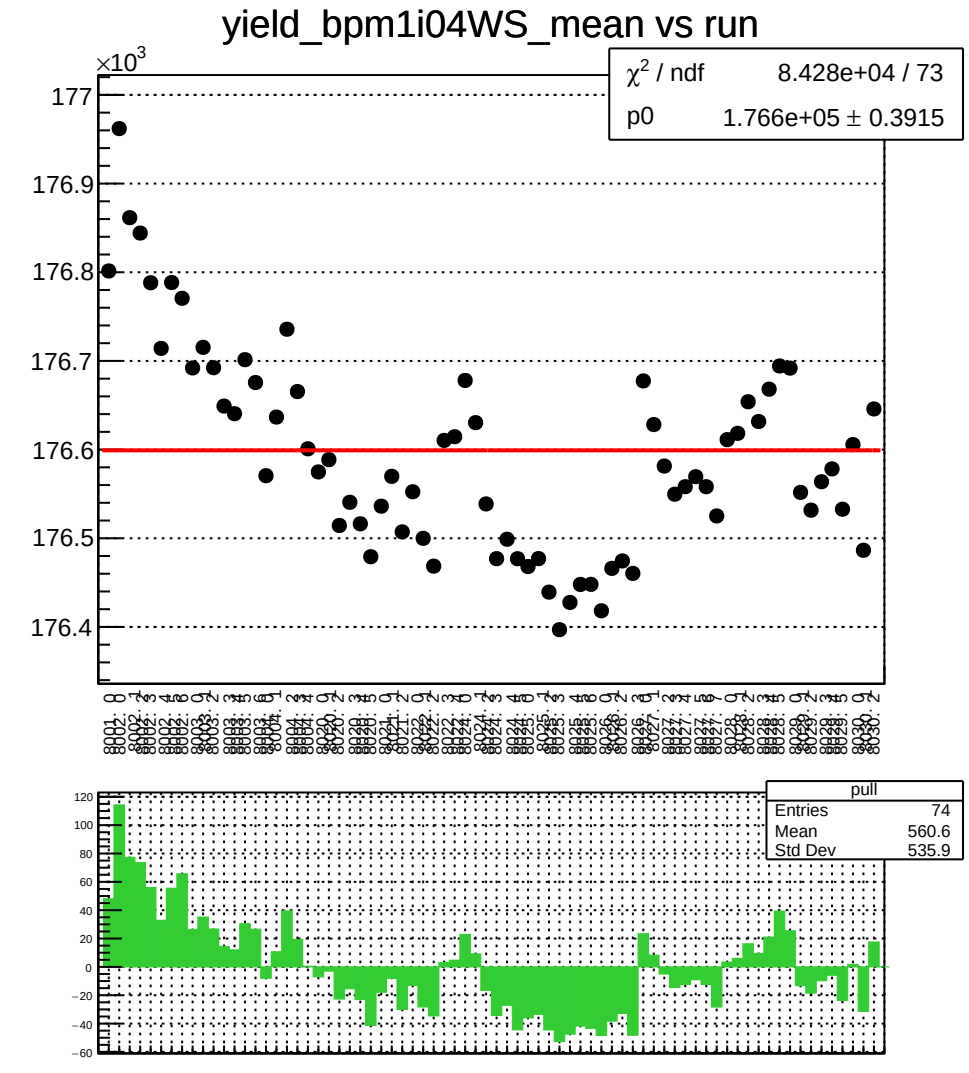

pull1D
Entries 74
Mean −1.161
Std Dev 0

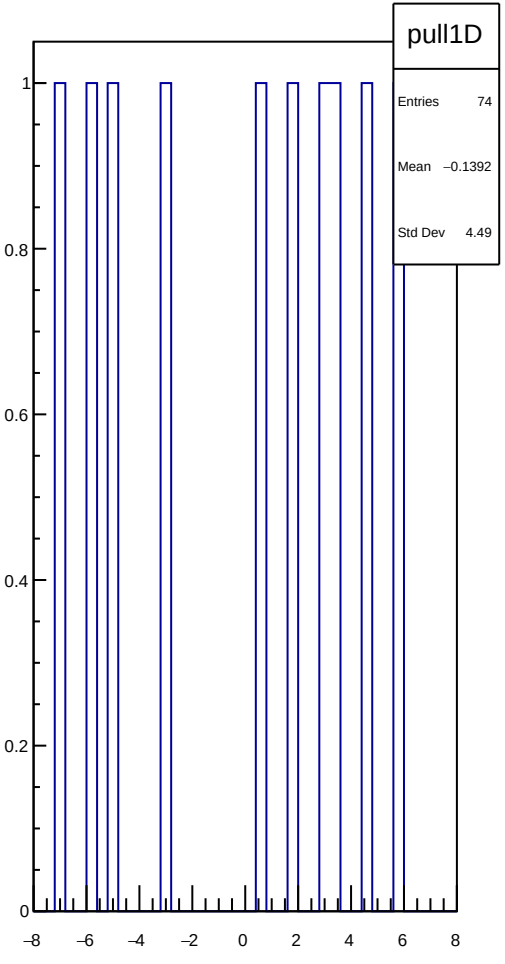

yield_bpm0i07WS_rms vs run
χ² / ndf 2.267e+04 / 73
p0 23.97 ± 0.02009
32
30
28
26
24
22
20
18
16

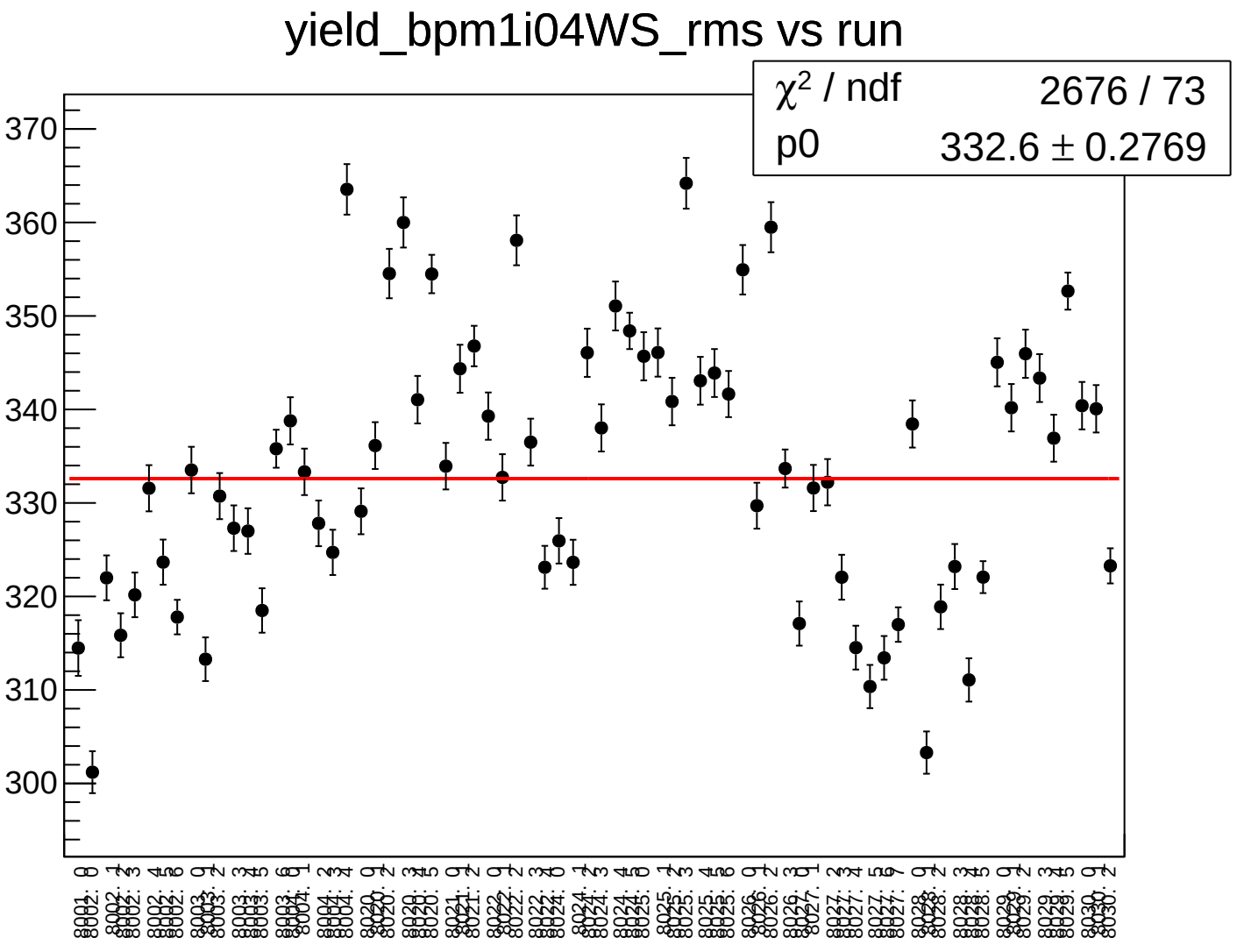

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 9.54e+04 / 73
p0 1.747e+05 ± 0.3729
174.95
174.9
174.85
174.8
174.75
174.7
174.65
174.6
174.55
pull
Entries 74
Mean −949.1
Std Dev 986.9
80
60
40
20
0
−20
−40

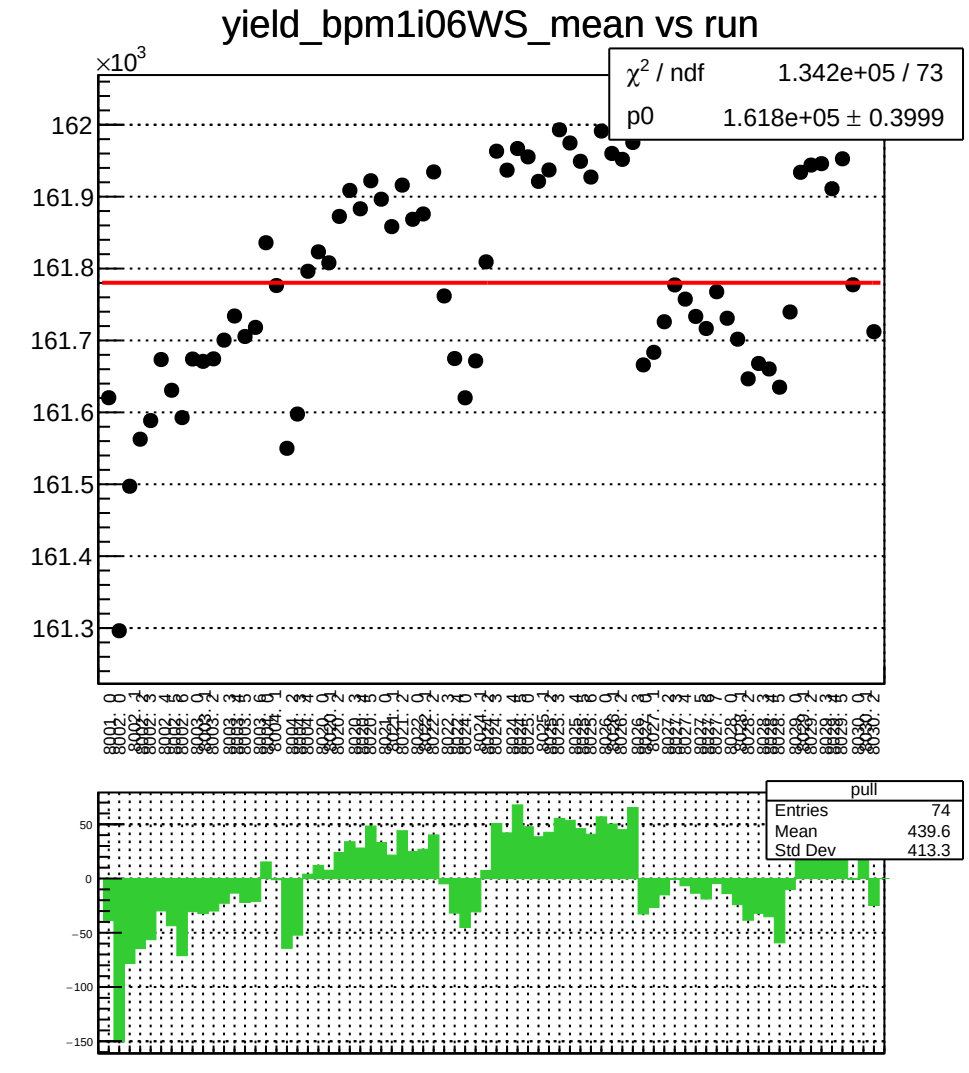

pull1D
Entries 74
Mean −1.07
Std Dev 3.913
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

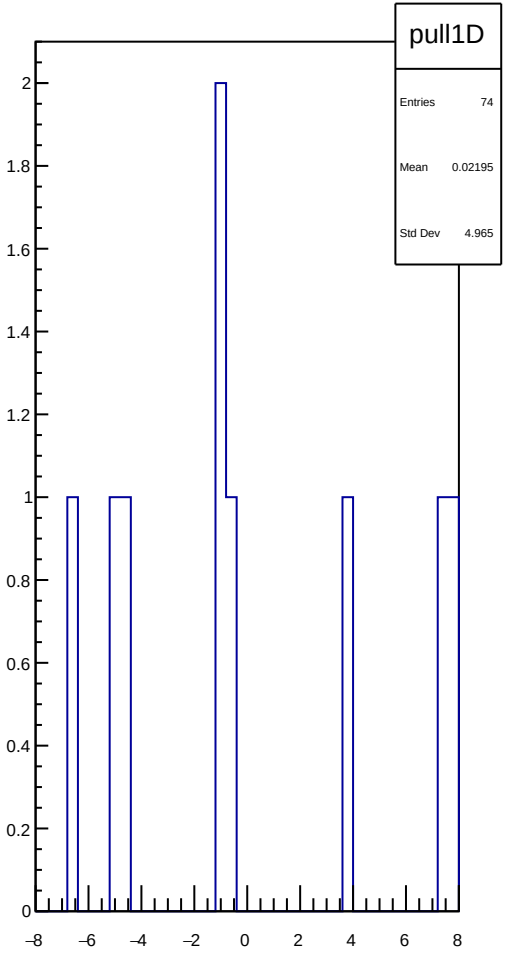

yield_bpm1i02WS_rms vs run
χ² / ndf 2172 / 73
p0 316.8 ± 0.2637
360
350
340
330
320
310
300
290

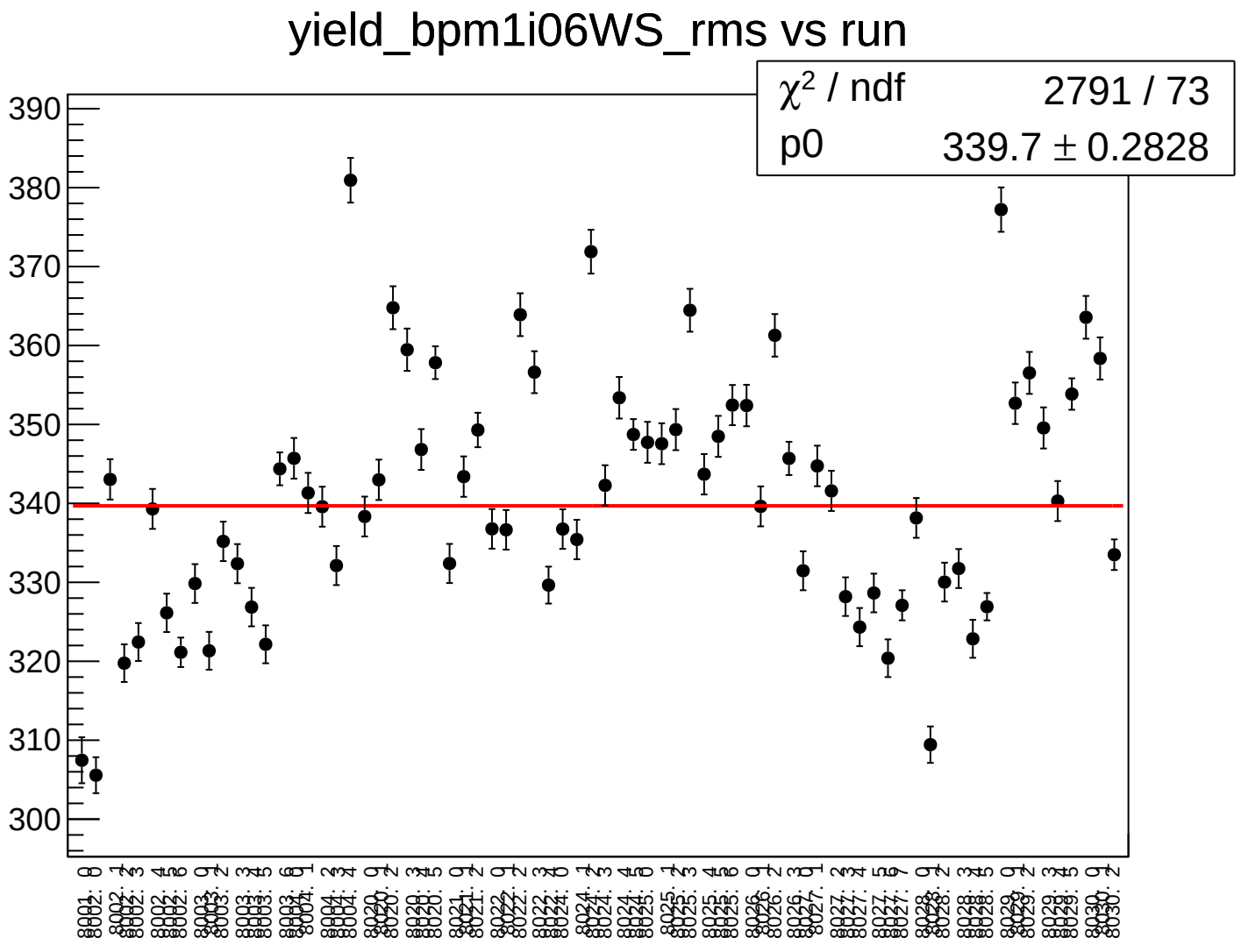

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 8.428e+04 / 73
p0 1.766e+05 ± 0.3915
177
176.9
176.8
176.7
176.6
176.5
176.4
pull
Entries 74
Mean 560.6
Std Dev 535.9
120
100
80
60
40
20
0
−20
−40
−60

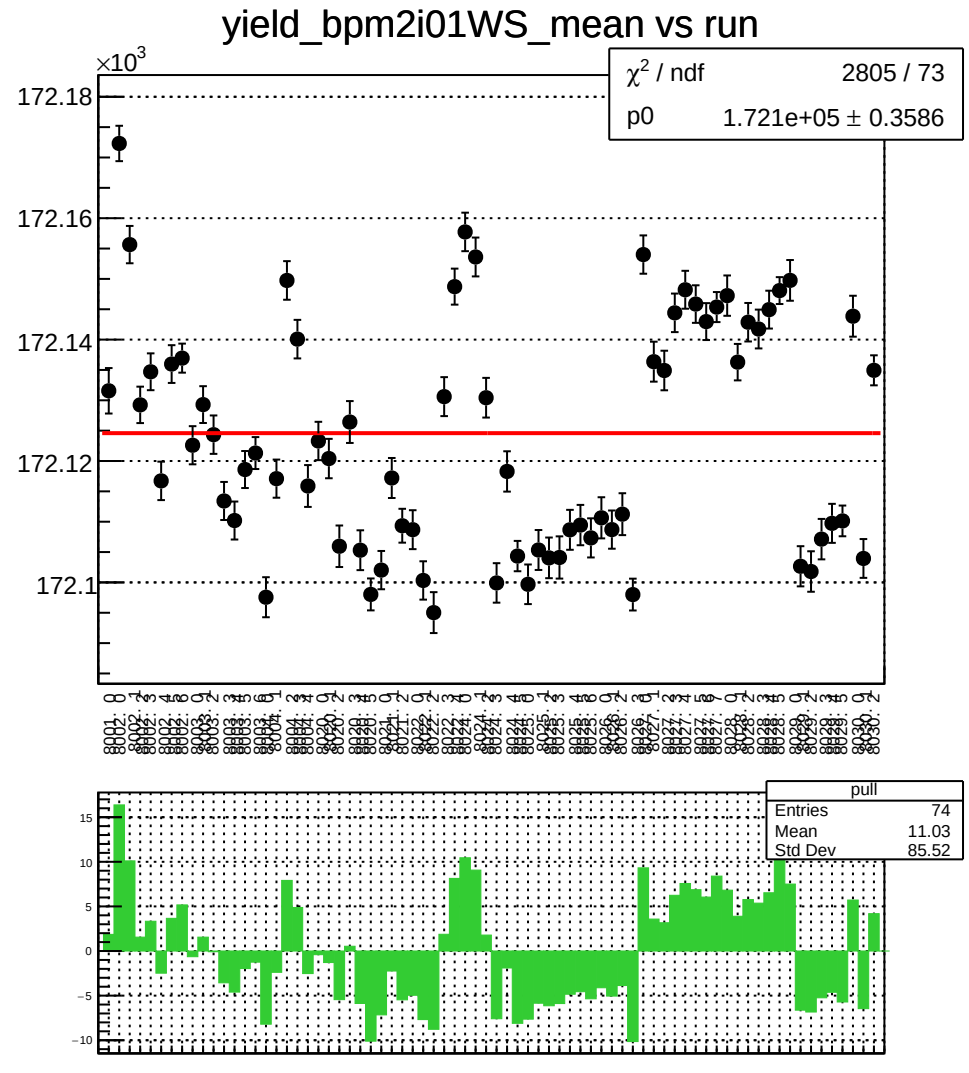

pull1D
Entries 74
Mean −0.1392
Std Dev 4.49
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

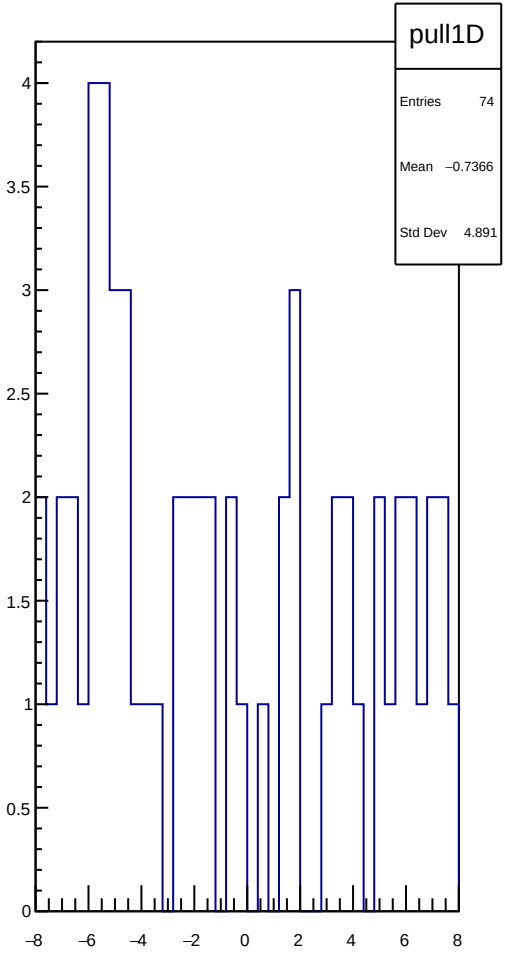

yield_bpm1i04WS_rms vs run
χ² / ndf 2676 / 73
p0 332.6 ± 0.2769
370
360
350
340
330
320
310
300

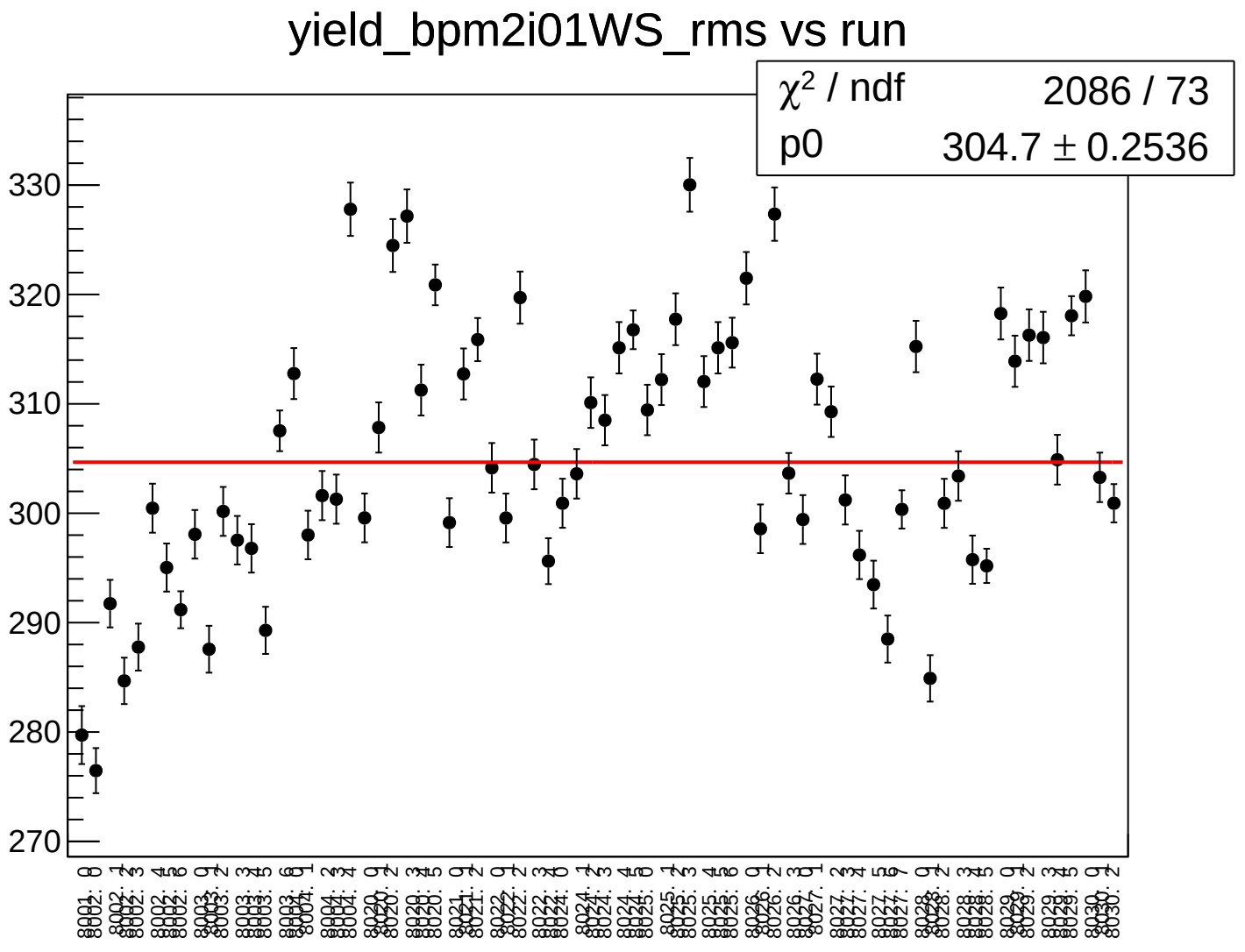

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 1.342e+05 / 73
p0 1.618e+05 ± 0.3999
162
161.9
161.8
161.7
161.6
161.5
161.4
161.3
pull
Entries 74
Mean 439.6
Std Dev 413.3
50
0
−50
−100
−150

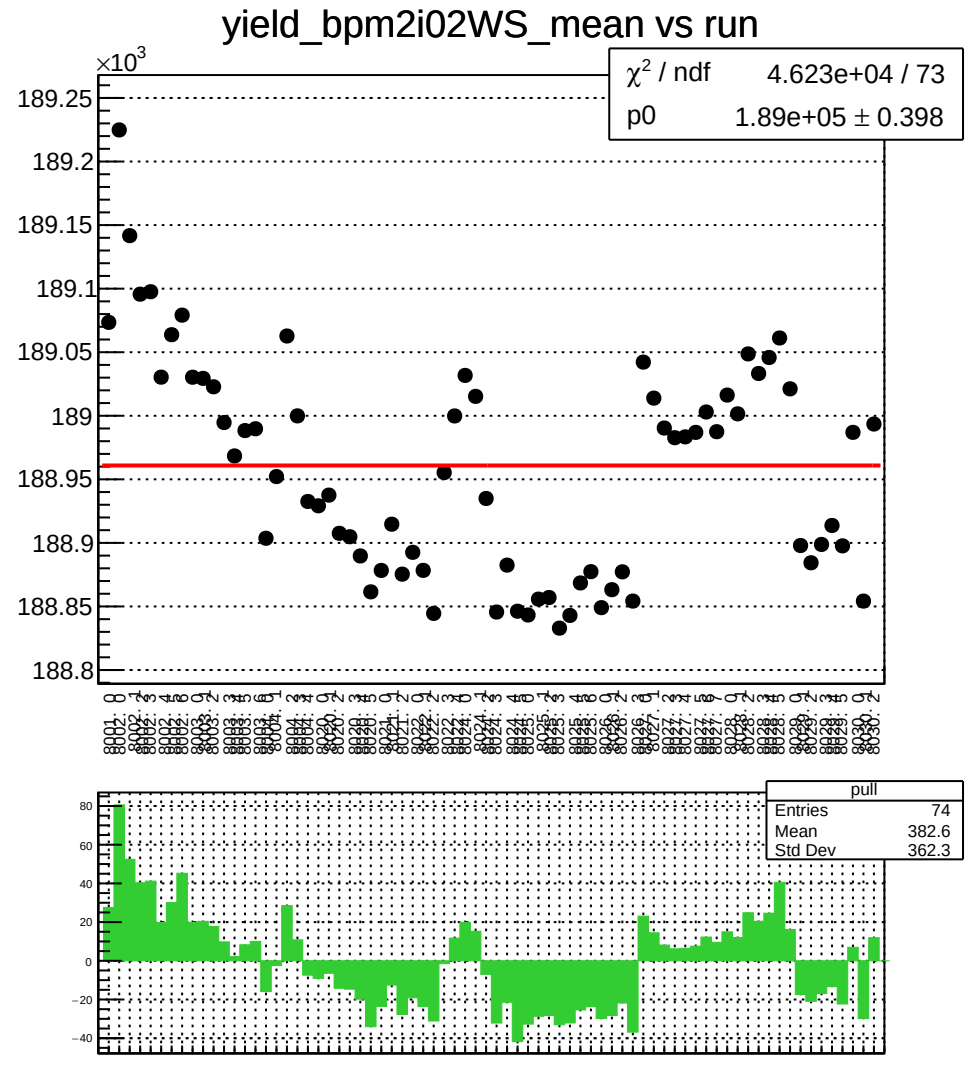

pull1D
Entries 74
Mean 0.02195
Std Dev 4.965
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

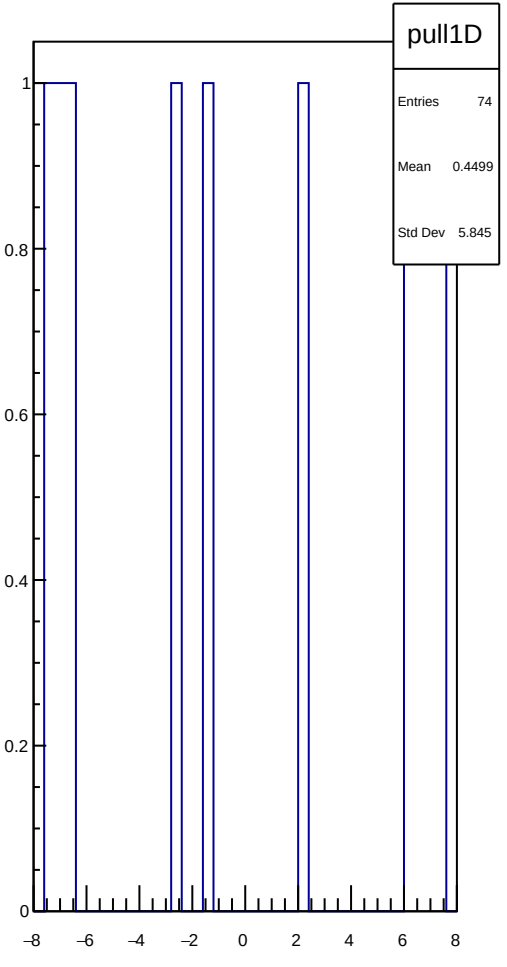

yield_bpm1i06WS_rms vs run
χ² / ndf 2791 / 73
p0 339.7 ± 0.2828
390
380
370
360
350
340
330
320
310
300

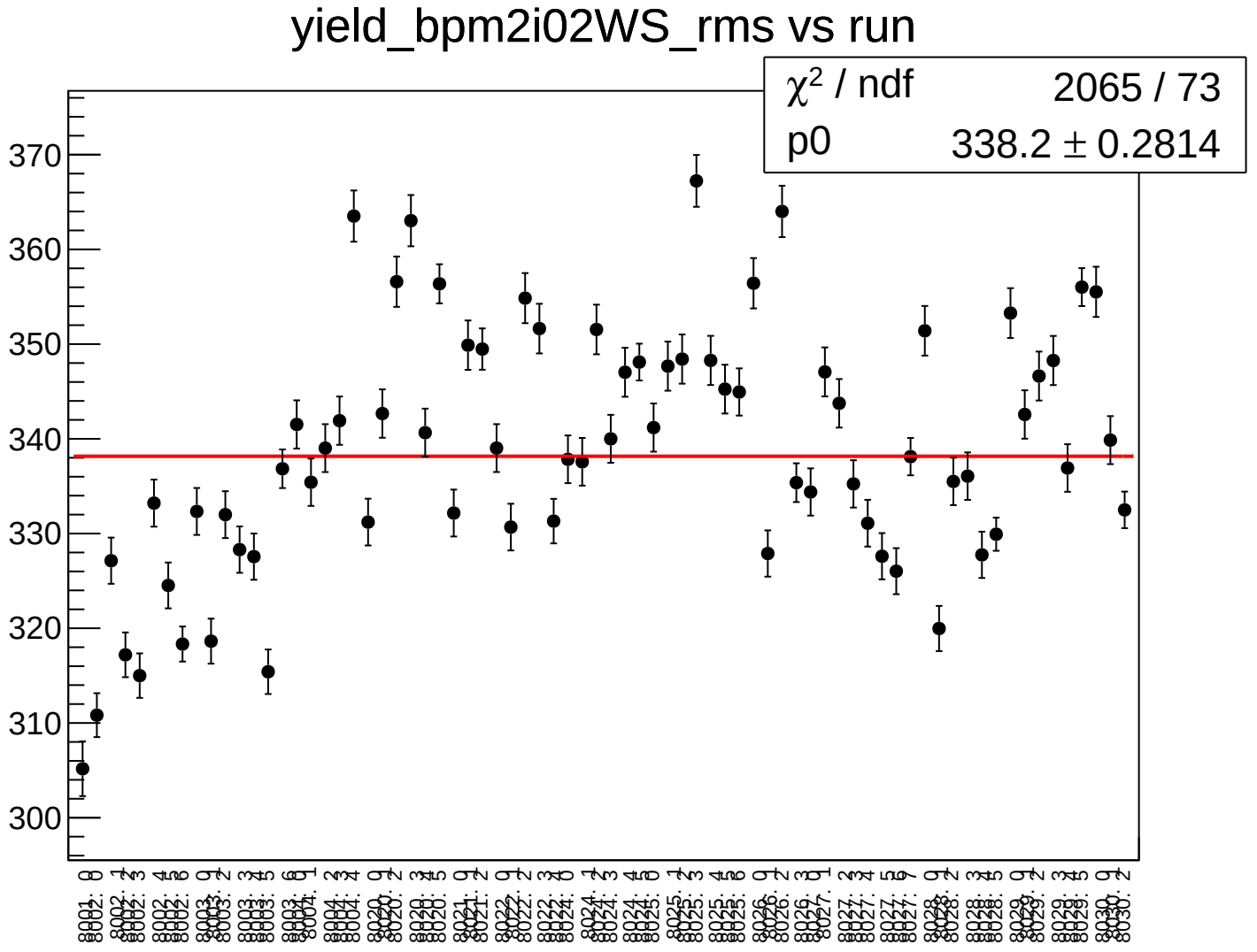

yield_bpm2i01WS_mean vs run
×10^3
172.18
172.16
172.14
172.12
172.1
χ² / ndf 2805 / 73
p0 1.721e+05 ± 0.3586
pull
Entries 74
Mean 11.03
Std Dev 85.52
15
10
5
0
−5
−10

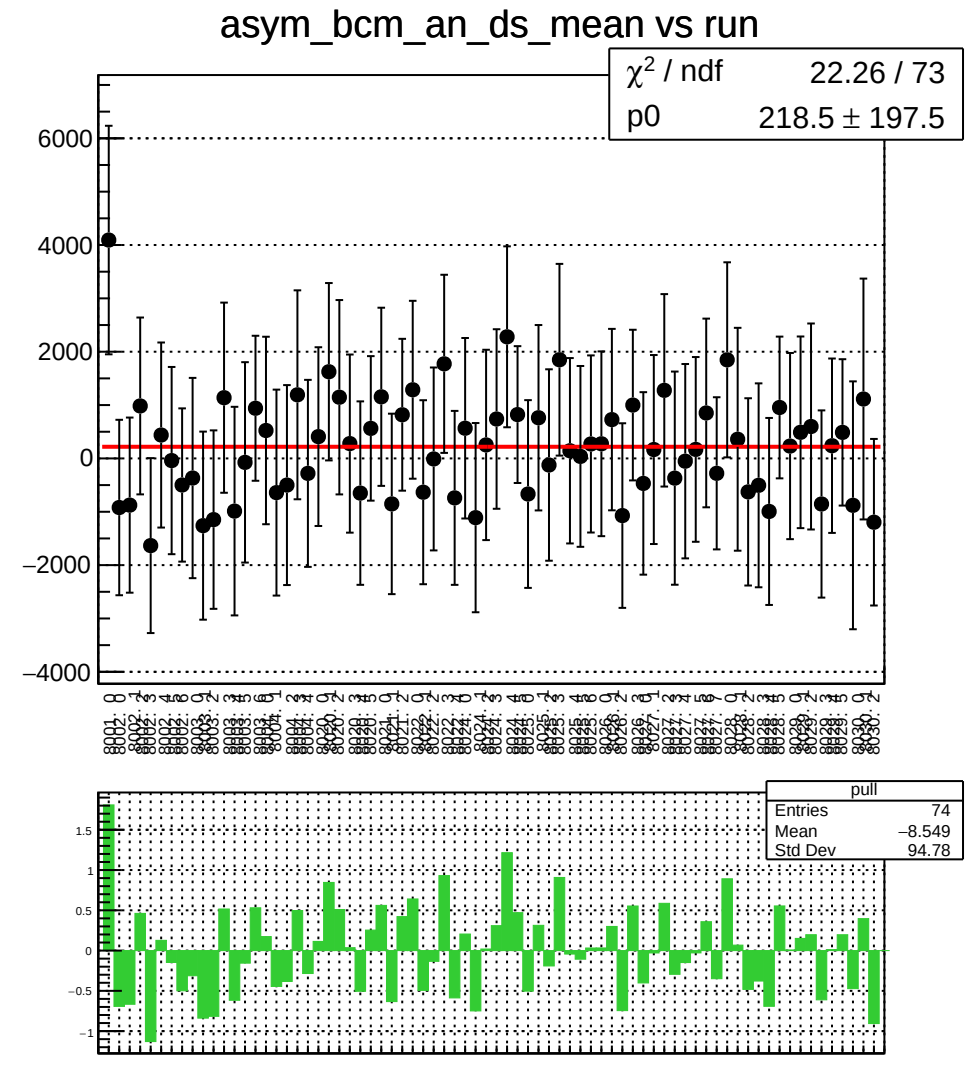

pull1D
Entries 74
Mean −0.7366
Std Dev 4.891
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

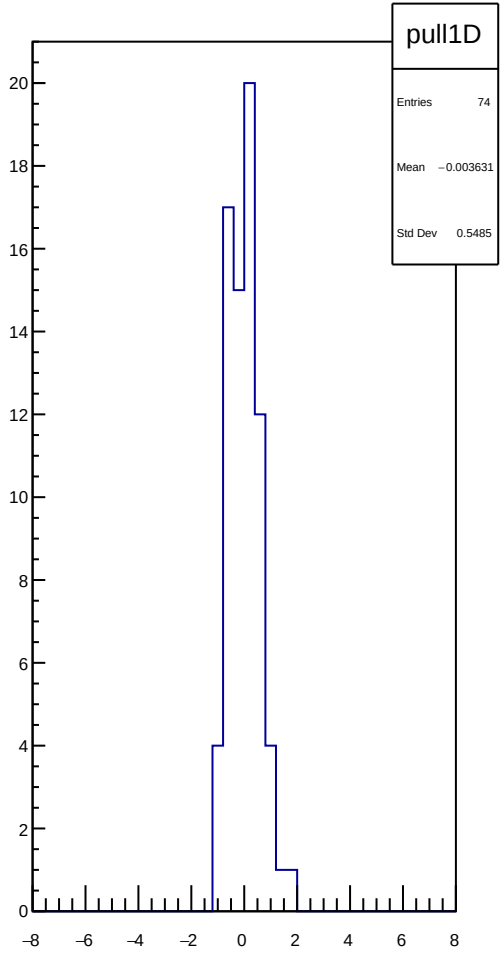

yield_bpm2i01WS_rms vs run
χ² / ndf 2086 / 73
p0 304.7 ± 0.2536
330
320
310
300
290
280
270

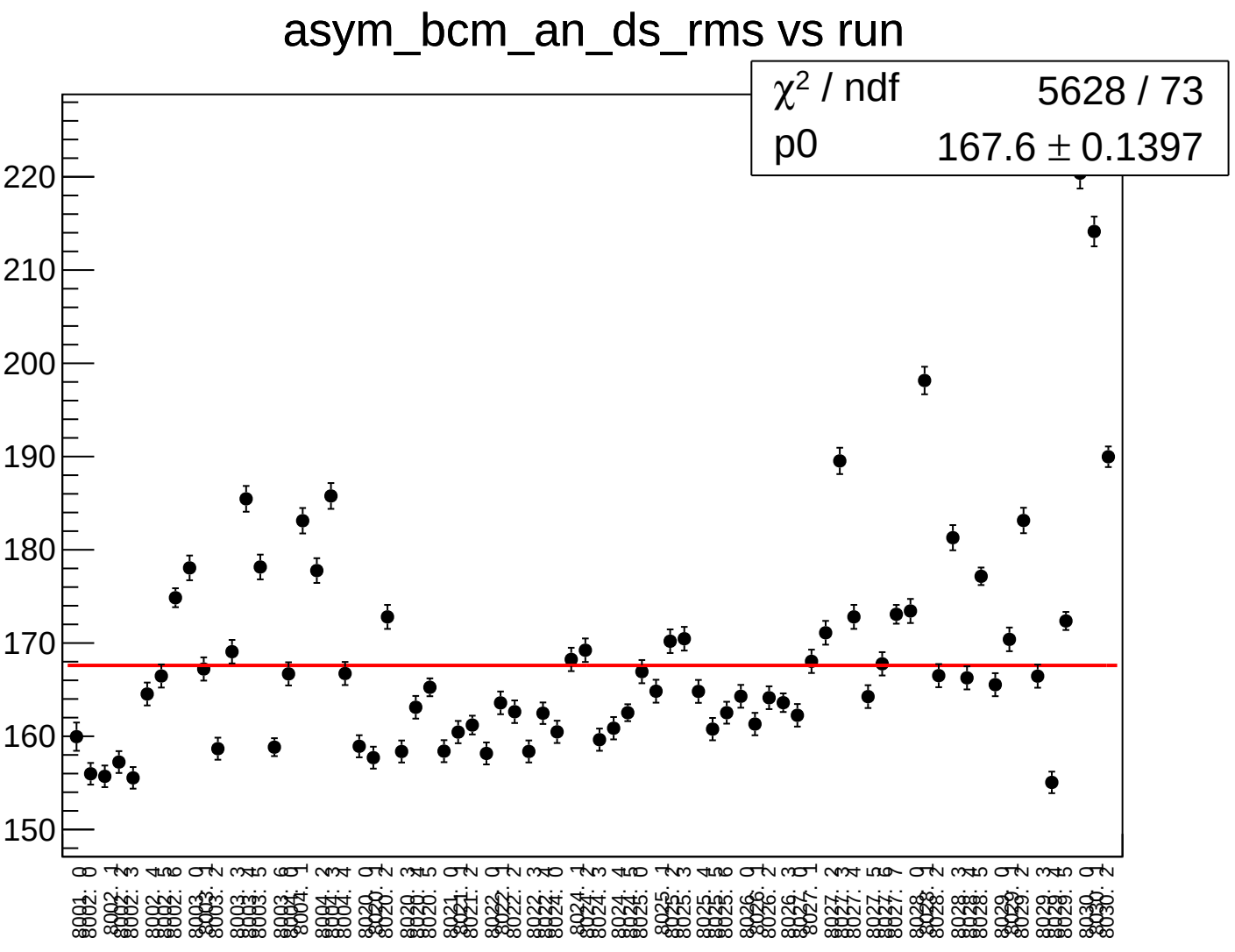

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 4.623e+04 / 73
p0 1.89e+05 ± 0.398
189.25
189.2
189.15
189.1
189.05
189
188.95
188.9
188.85
188.8
pull
Entries 74
Mean 382.6
Std Dev 362.3
80
60
40
20
0
−20
−40

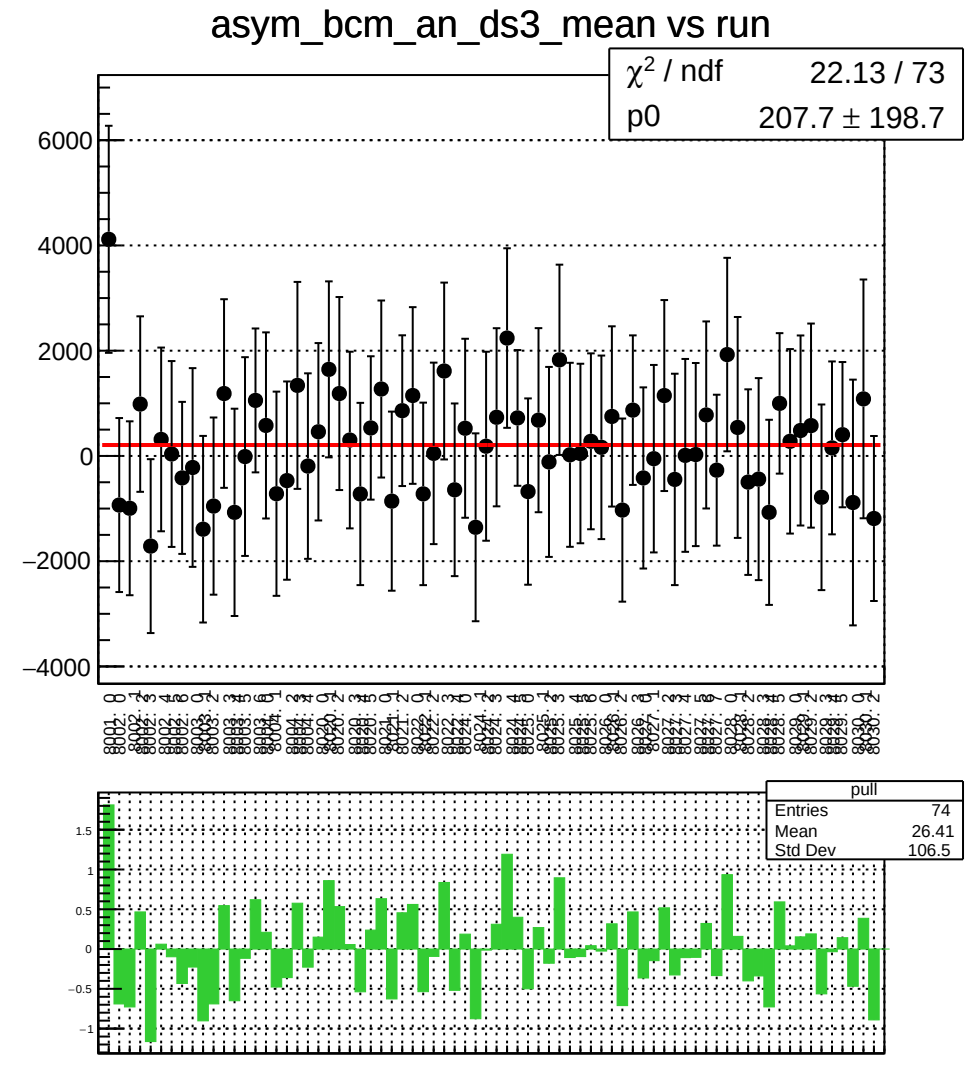

pull1D
Entries 74
Mean 0.4499
Std Dev 5.845
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

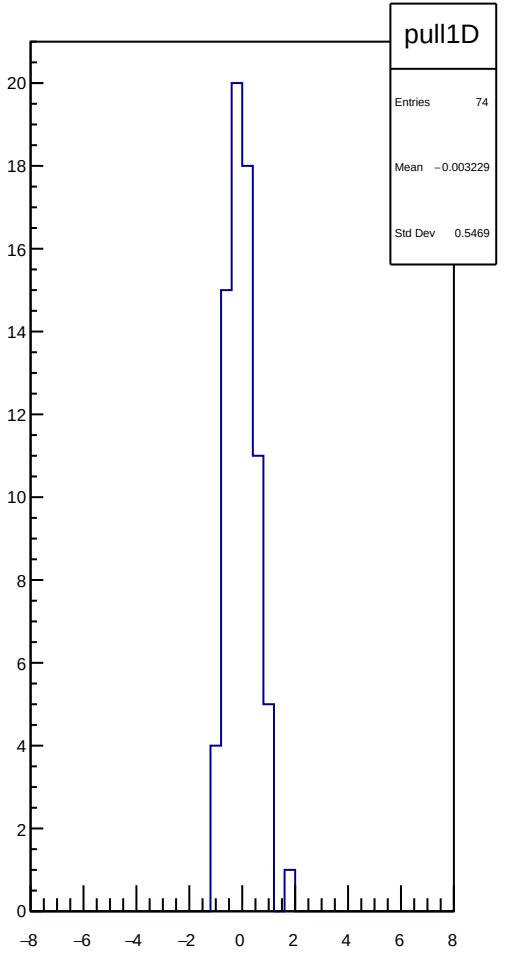

yield_bpm2i02WS_rms vs run
χ² / ndf 2065 / 73
p0 338.2 ± 0.2814
370
360
350
340
330
320
310
300

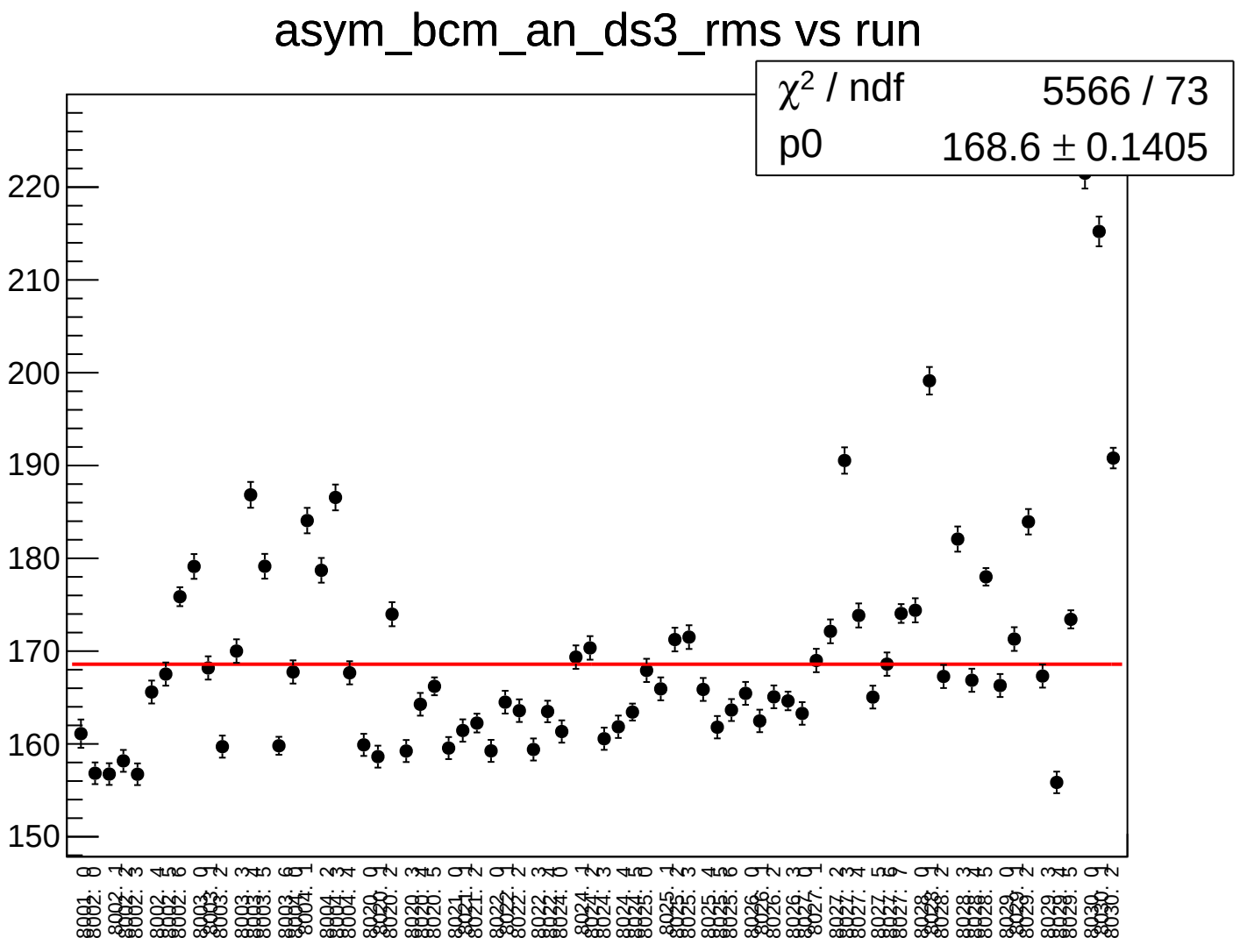

asym_bcm_an_ds_mean vs run
χ² / ndf 22.26 / 73
p0 218.5 ± 197.5
pull
Entries 74
Mean −8.549
Std Dev 94.78

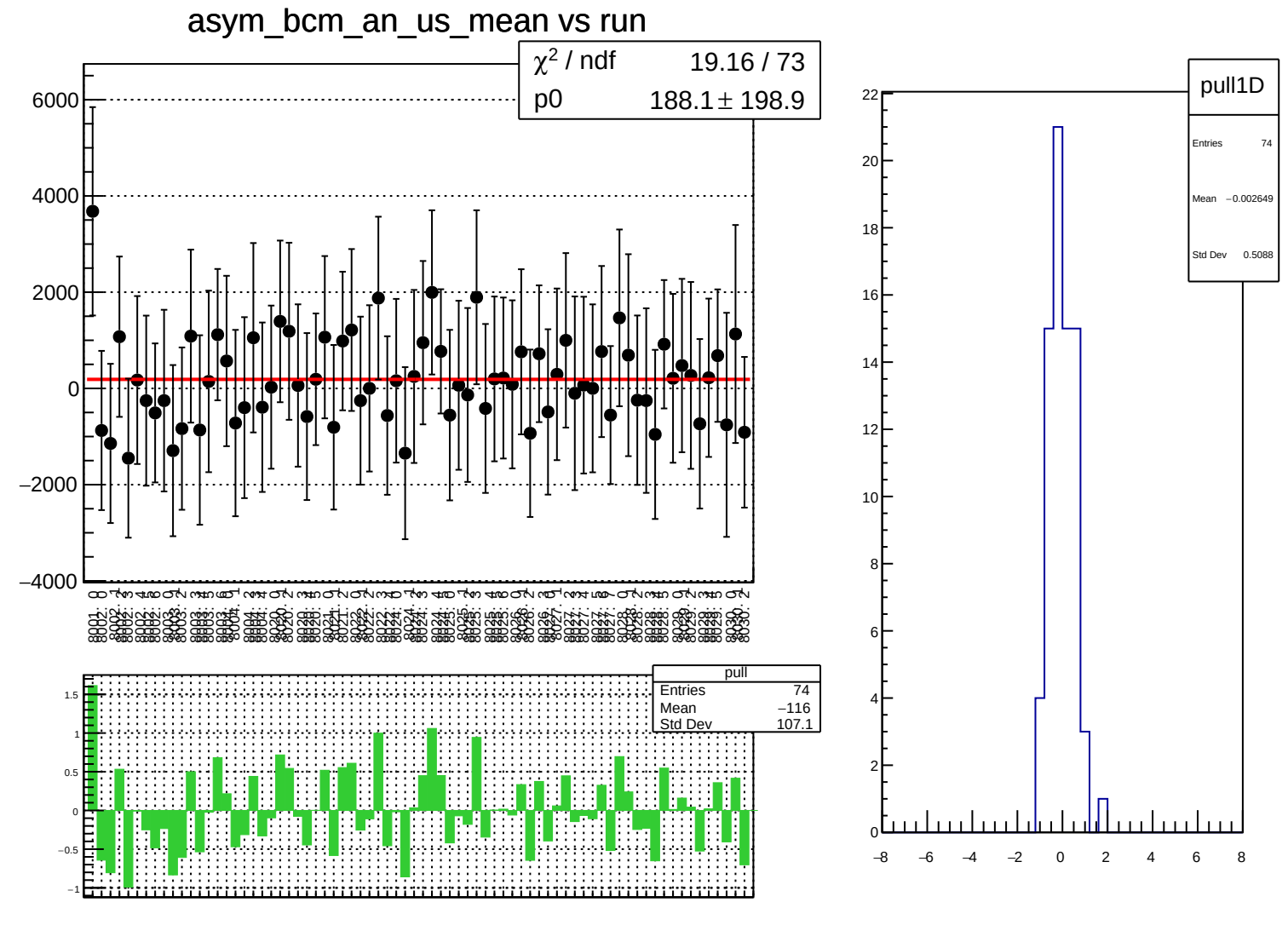

pull1D
Entries 74
Mean −0.003631
Std Dev 0.5485

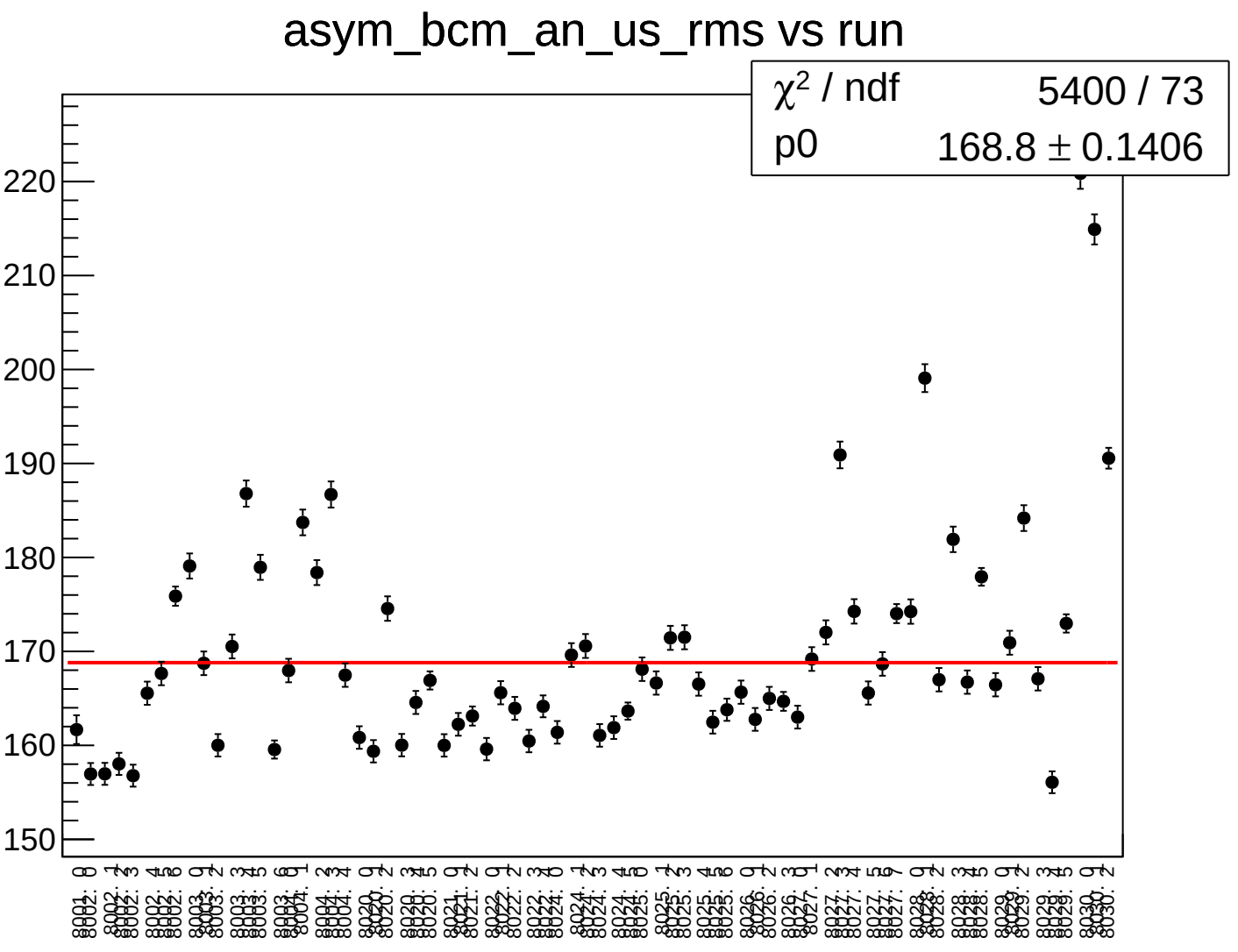

asym_bcm_an_ds_rms vs run
χ^2 / ndf 5628 / 73
p0 167.6 ± 0.1397
220
210
200
190
180
170
160
150

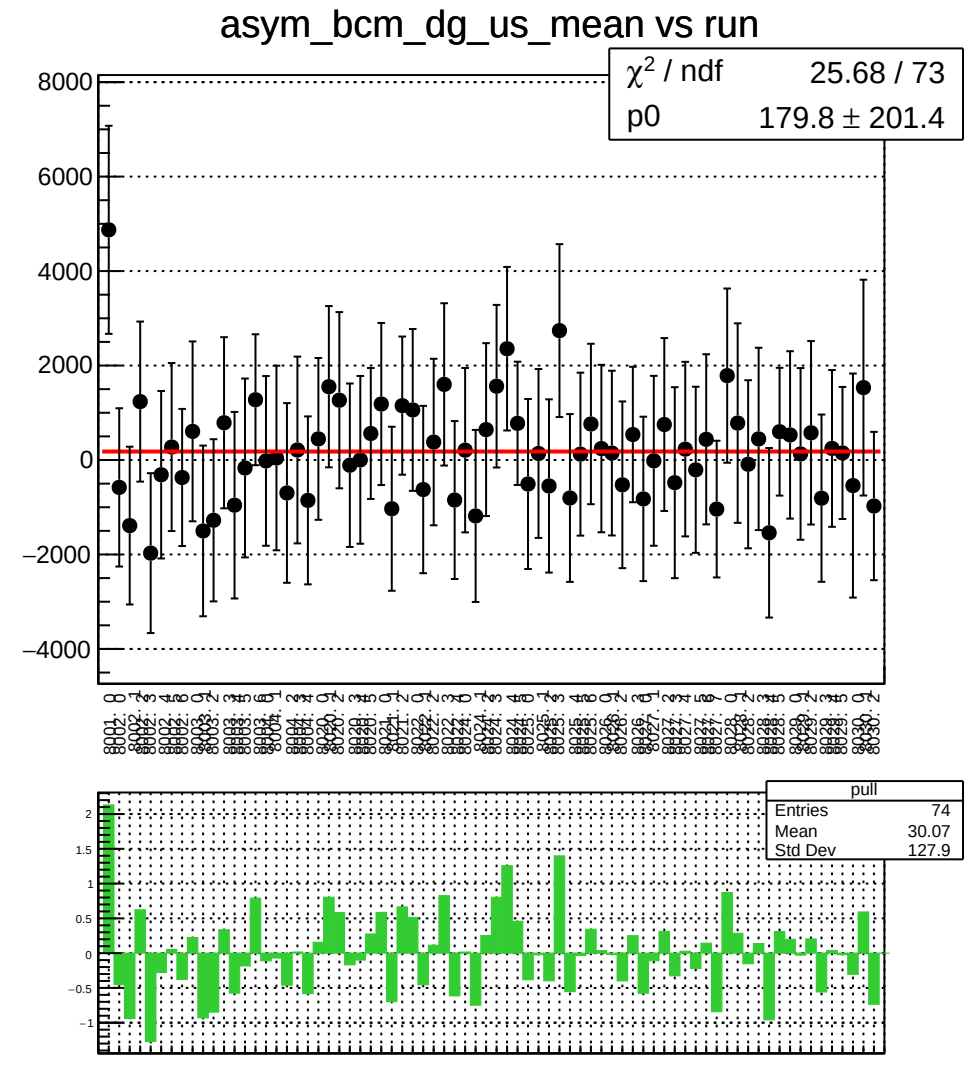

asym_bcm_an_ds3_mean vs run
χ² / ndf 22.13 / 73
p0 207.7 ± 198.7
pull
Entries 74
Mean 26.41
Std Dev 106.5

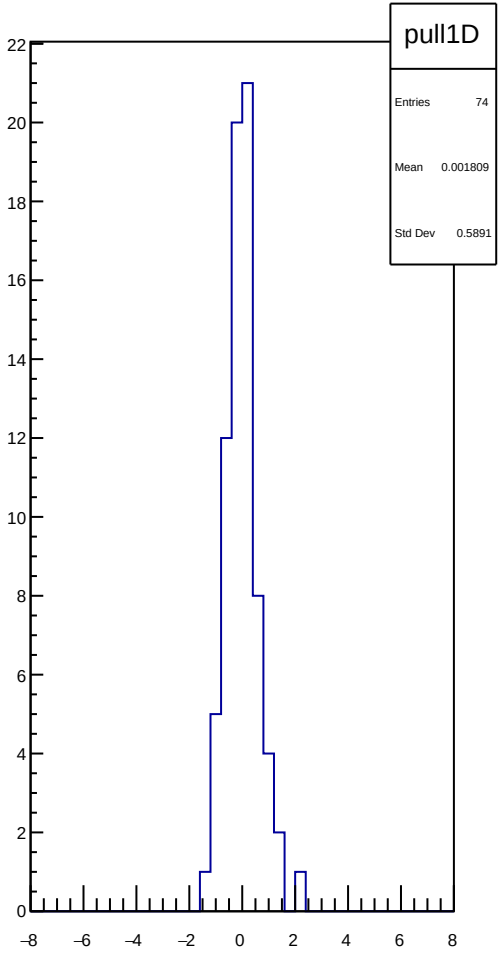

pull1D
Entries 74
Mean −0.003229
Std Dev 0.5469

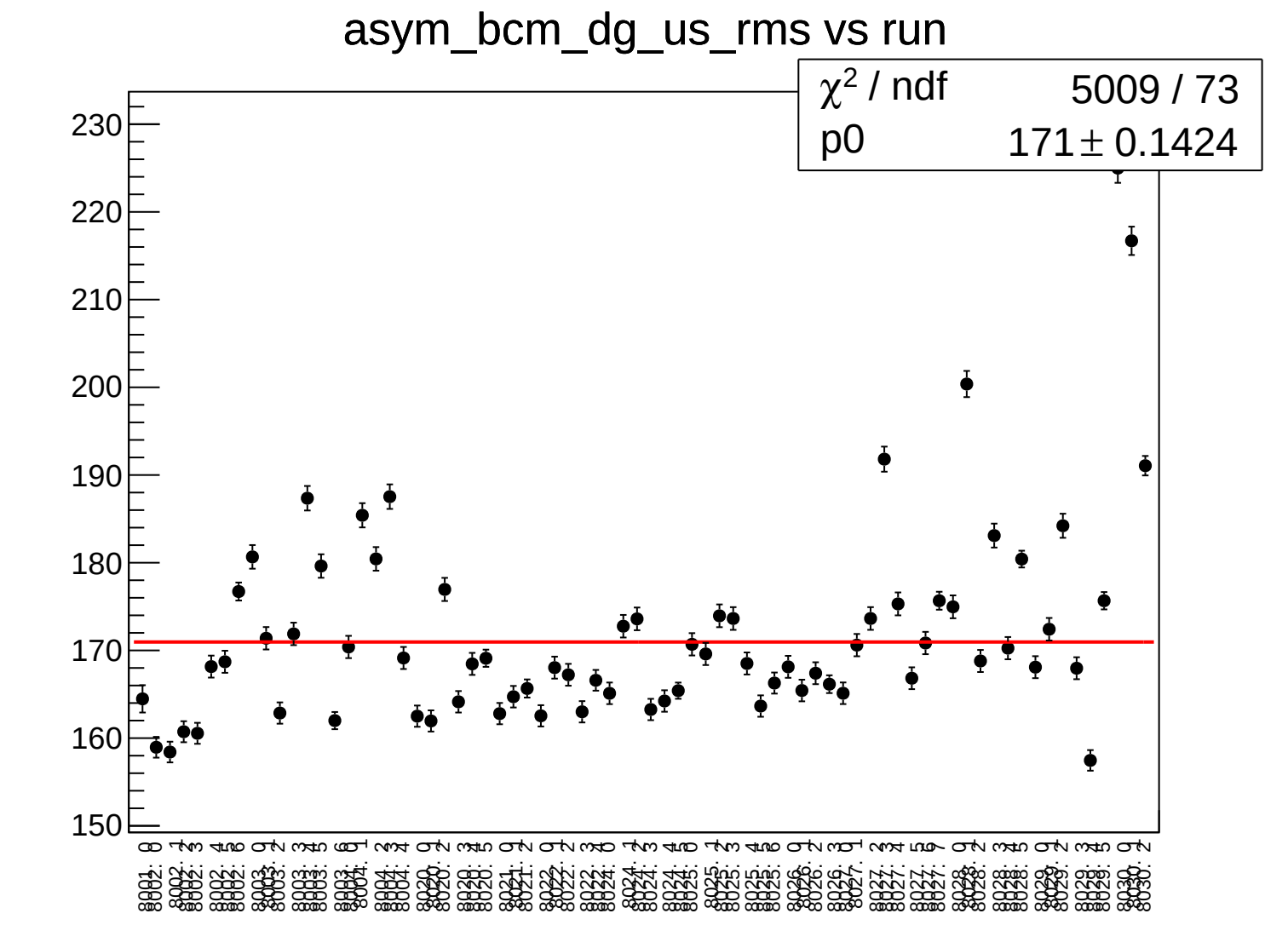

asym_bcm_an_ds3_rms vs run
χ^2 / ndf 5566 / 73
p0 168.6 ± 0.1405
220
210
200
190
180
170
160
150

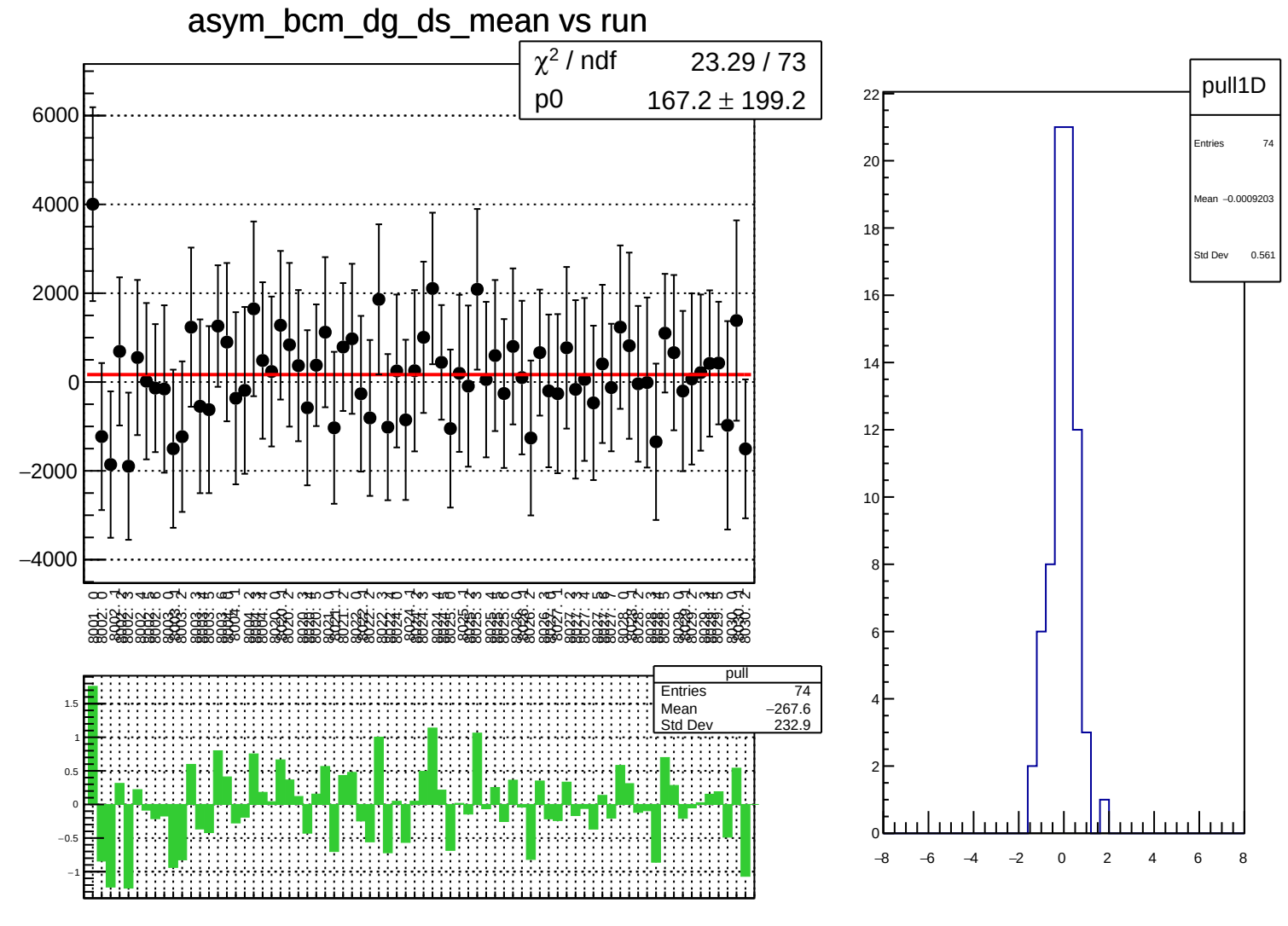

asym_bcm_an_us_mean vs run
χ^2 / ndf 19.16 / 73
p0 188.1 ± 198.9
pull
Entries 74
Mean −116
Std Dev 107.1
pull1D
Entries 74
Mean −0.002649
Std Dev 0.5088

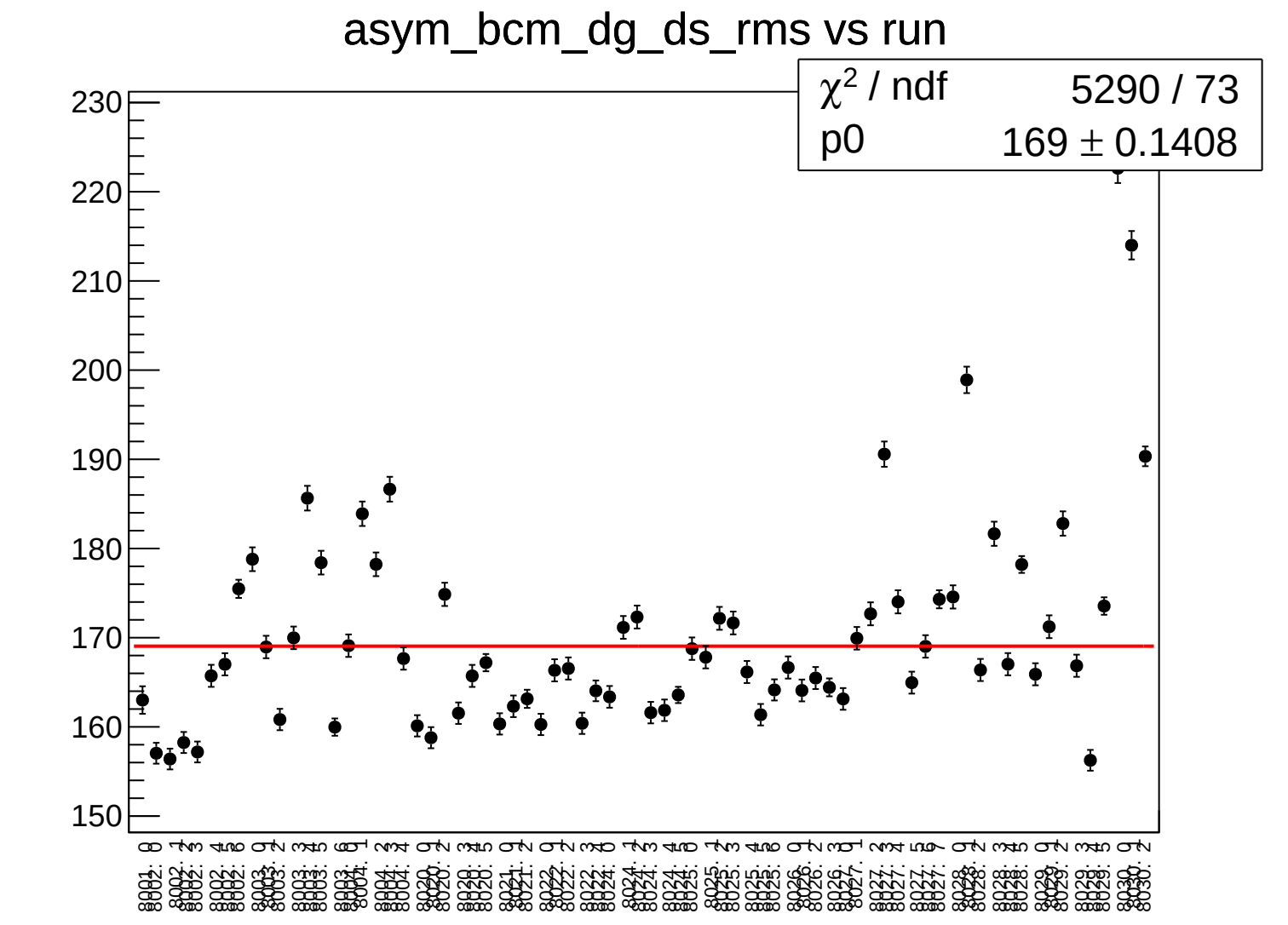

asym_bcm_an_us_rms vs run
χ^2 / ndf 5400 / 73
p0 168.8 ± 0.1406
220
210
200
190
180
170
160
150

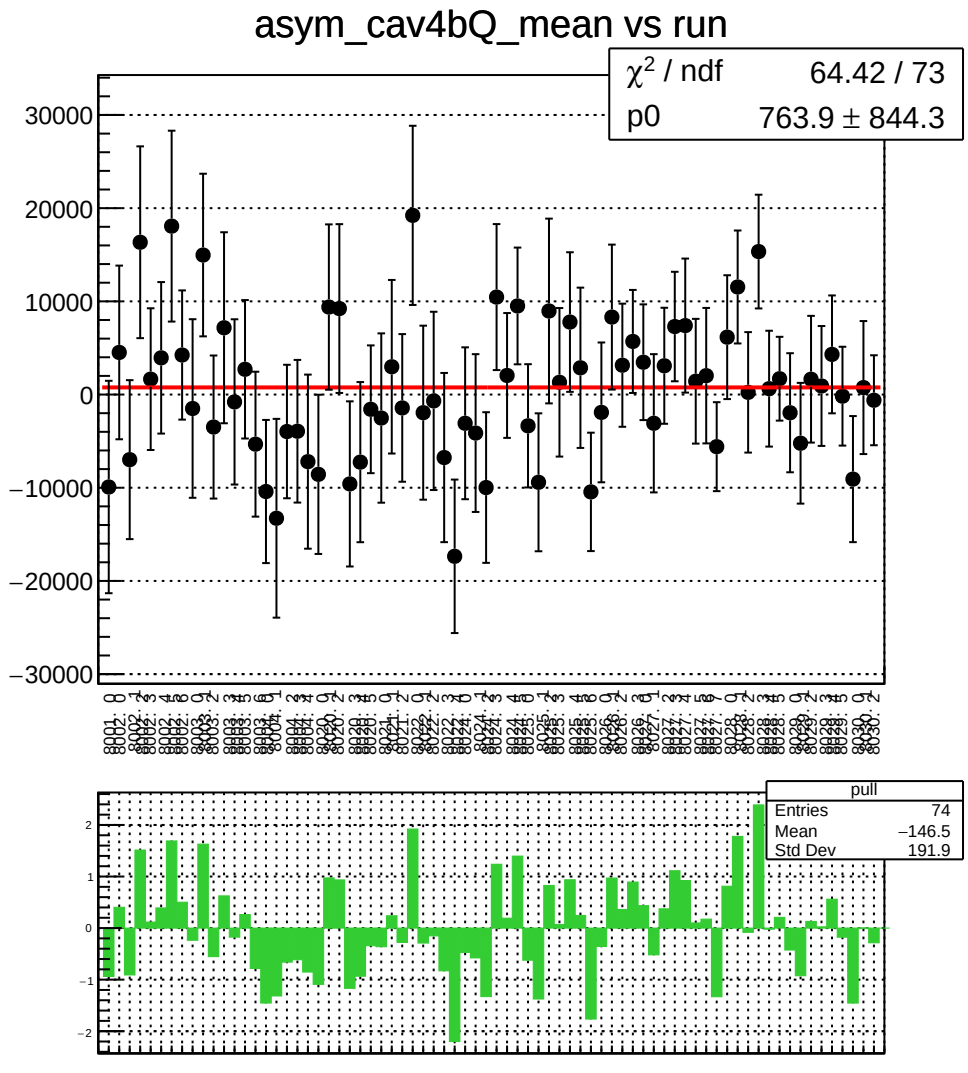

asym_bcm_dg_us_mean vs run
χ² / ndf 25.68 / 73
p0 179.8 ± 201.4
pull
Entries 74
Mean 30.07
Std Dev 127.9

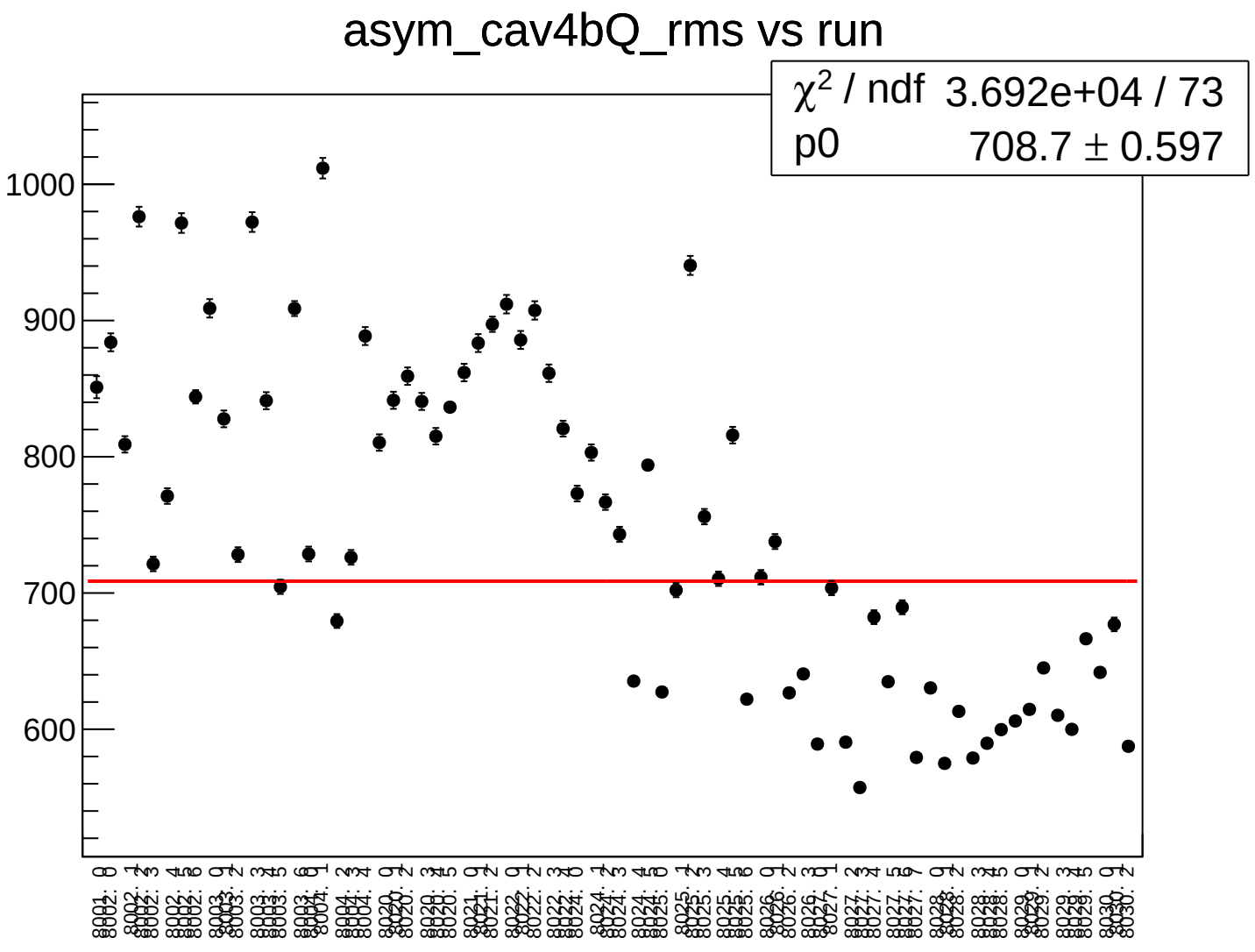

pull1D
Entries 74
Mean 0.001809
Std Dev 0.5891

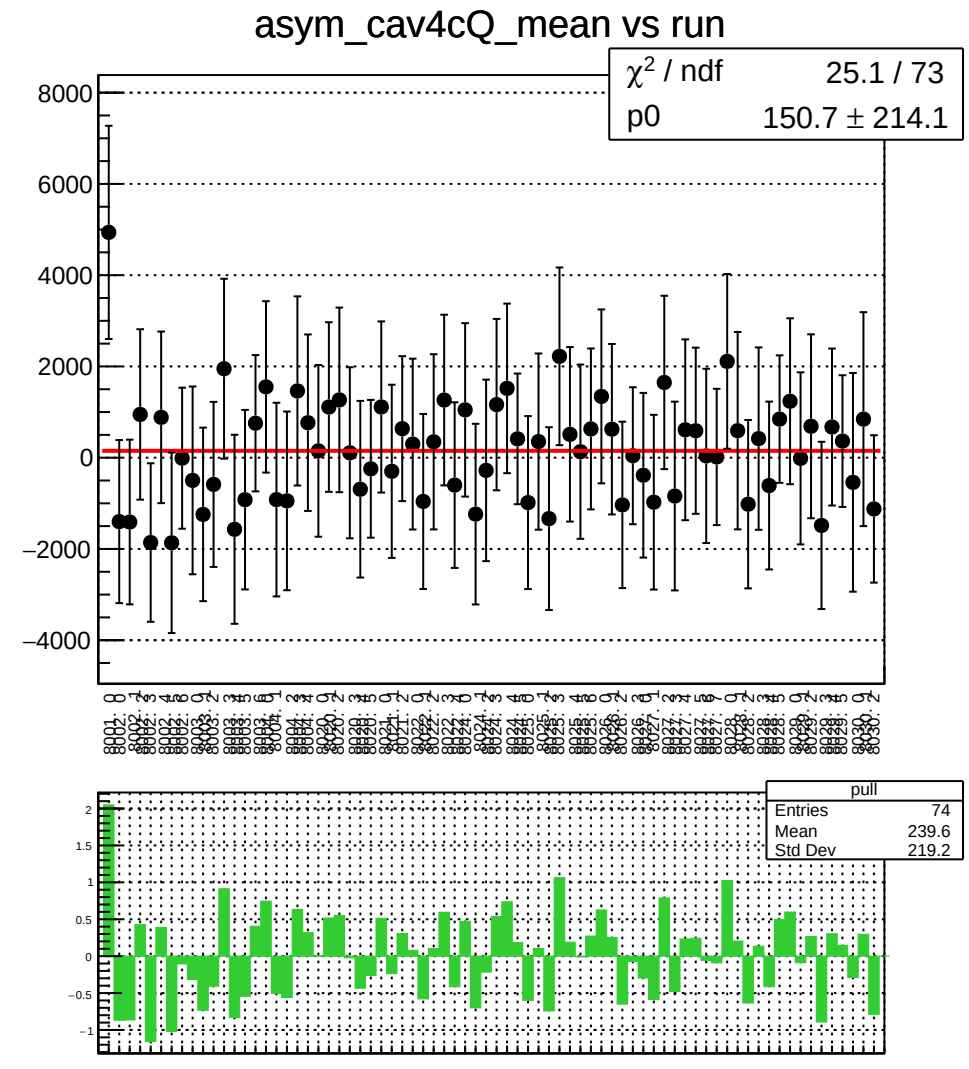

asym_bcm_dg_us_rms vs run
χ² / ndf 5009 / 73
p0 171 ± 0.1424
230
220
210
200
190
180
170
160
150

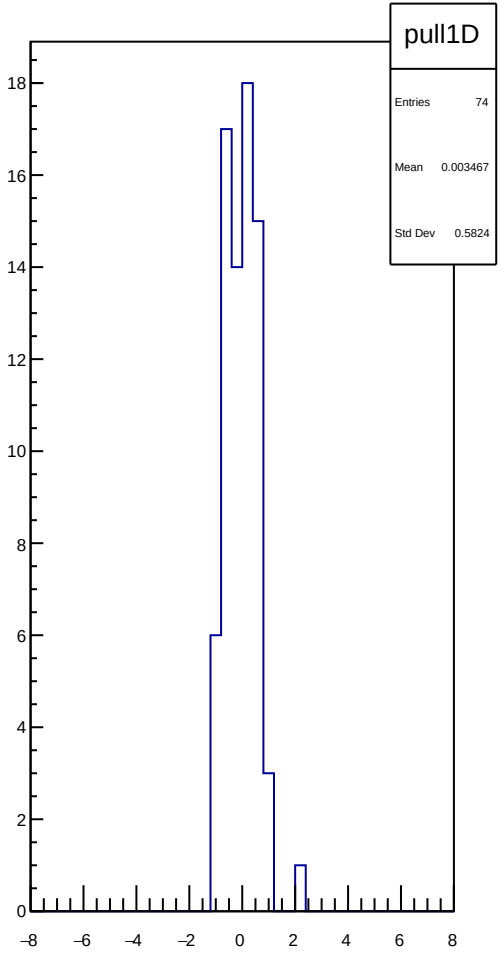

asym_bcm_dg_ds_mean vs run
χ² / ndf 23.29 / 73
p0 167.2 ± 199.2
6000
4000
2000
0
−2000
−4000
pull
Entries 74
Mean −267.6
Std Dev 232.9
1.5
1
0.5
0
−0.5
−1
pull1D
Entries 74
Mean −0.0009203
Std Dev 0.561
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

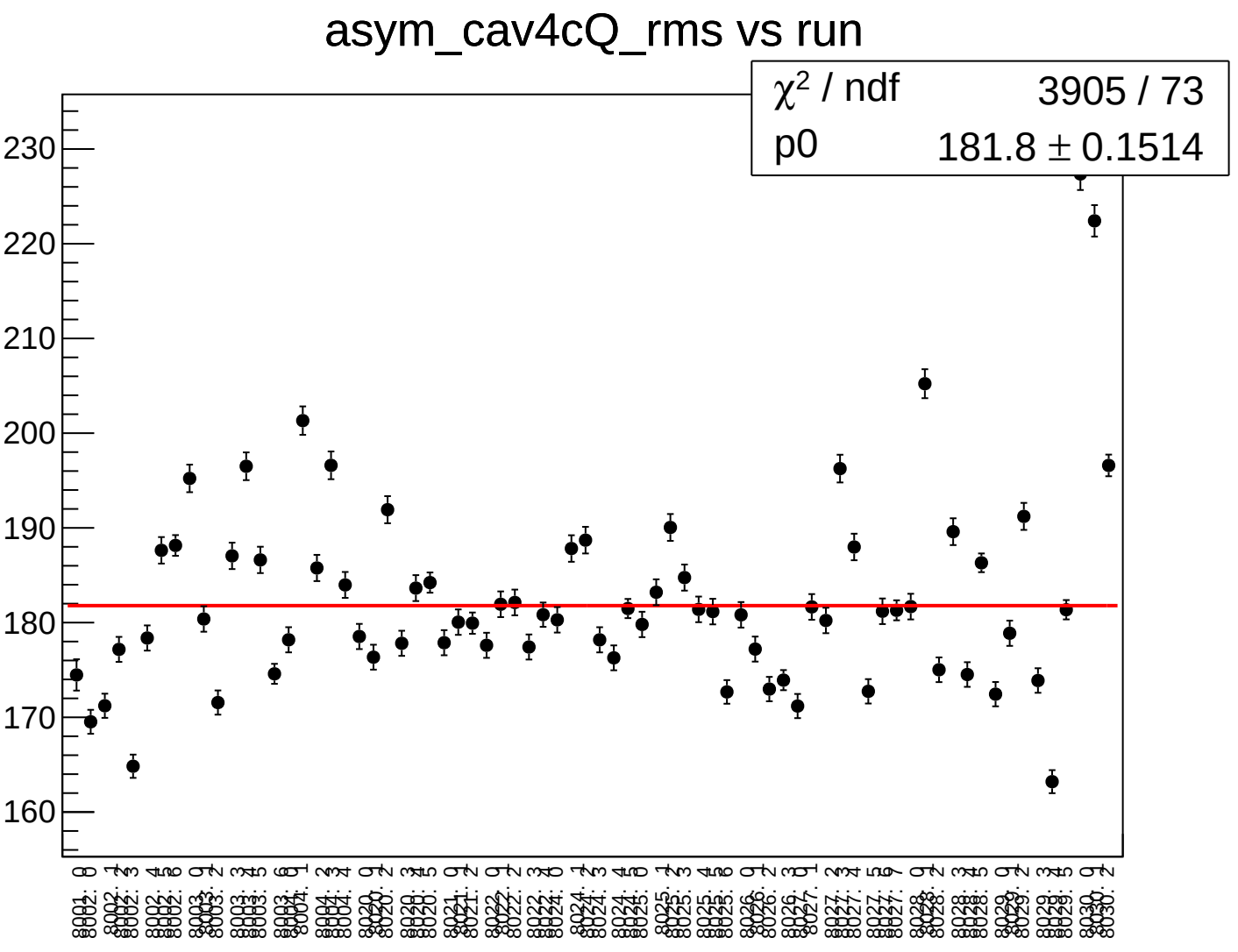

asym_bcm_dg_ds_rms vs run
χ² / ndf 5290 / 73
p0 169 ± 0.1408
230
220
210
200
190
180
170
160
150

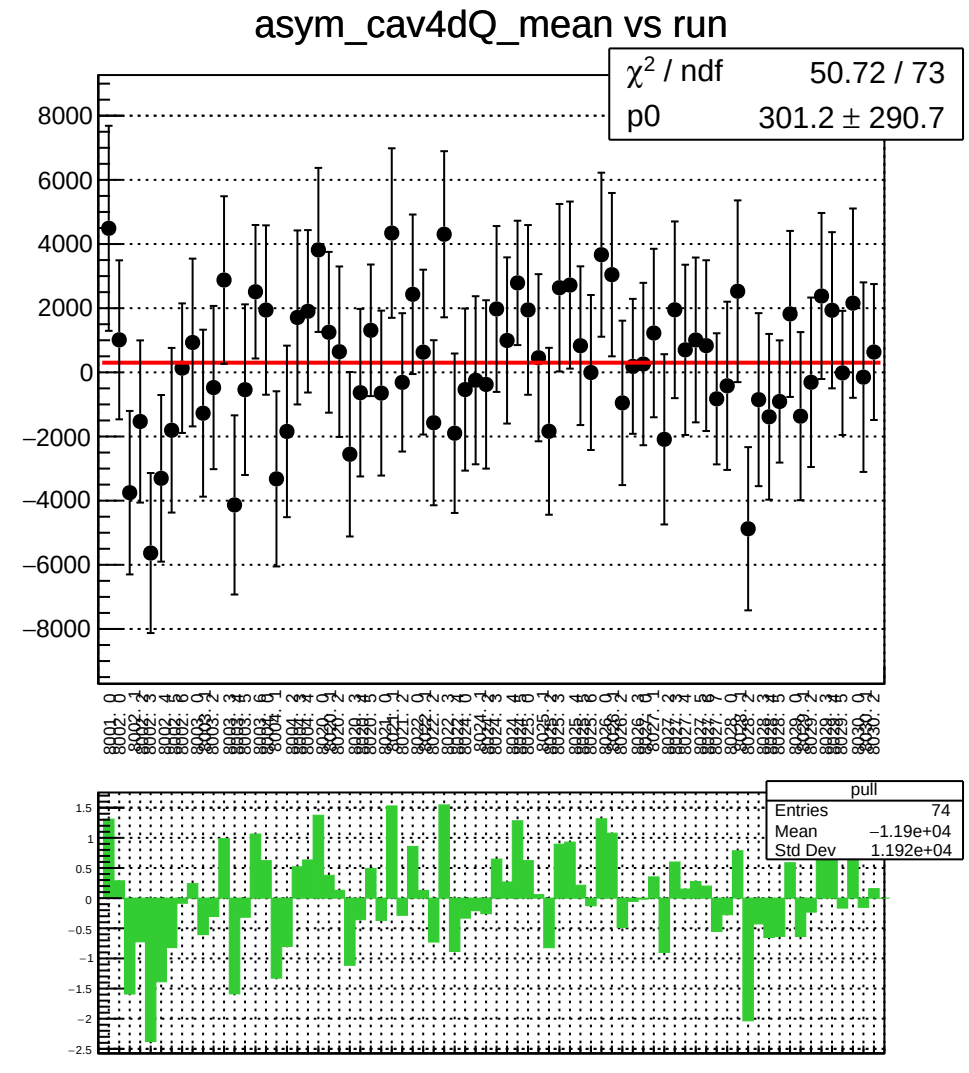

asym_cav4bQ_mean vs run
χ² / ndf 64.42 / 73
p0 763.9 ± 844.3
pull
Entries 74
Mean −146.5
Std Dev 191.9
pull1D
Entries 74
Mean −0.00702
Std Dev 0.933

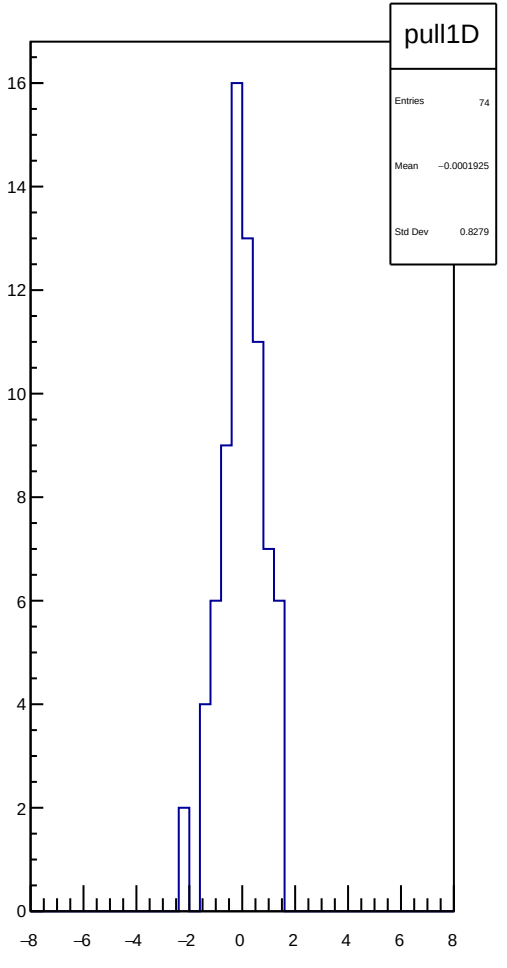

asym_cav4bQ_rms vs run
χ² / ndf 3.692e+04 / 73
p0 708.7 ± 0.597
1000
900
800
700
600

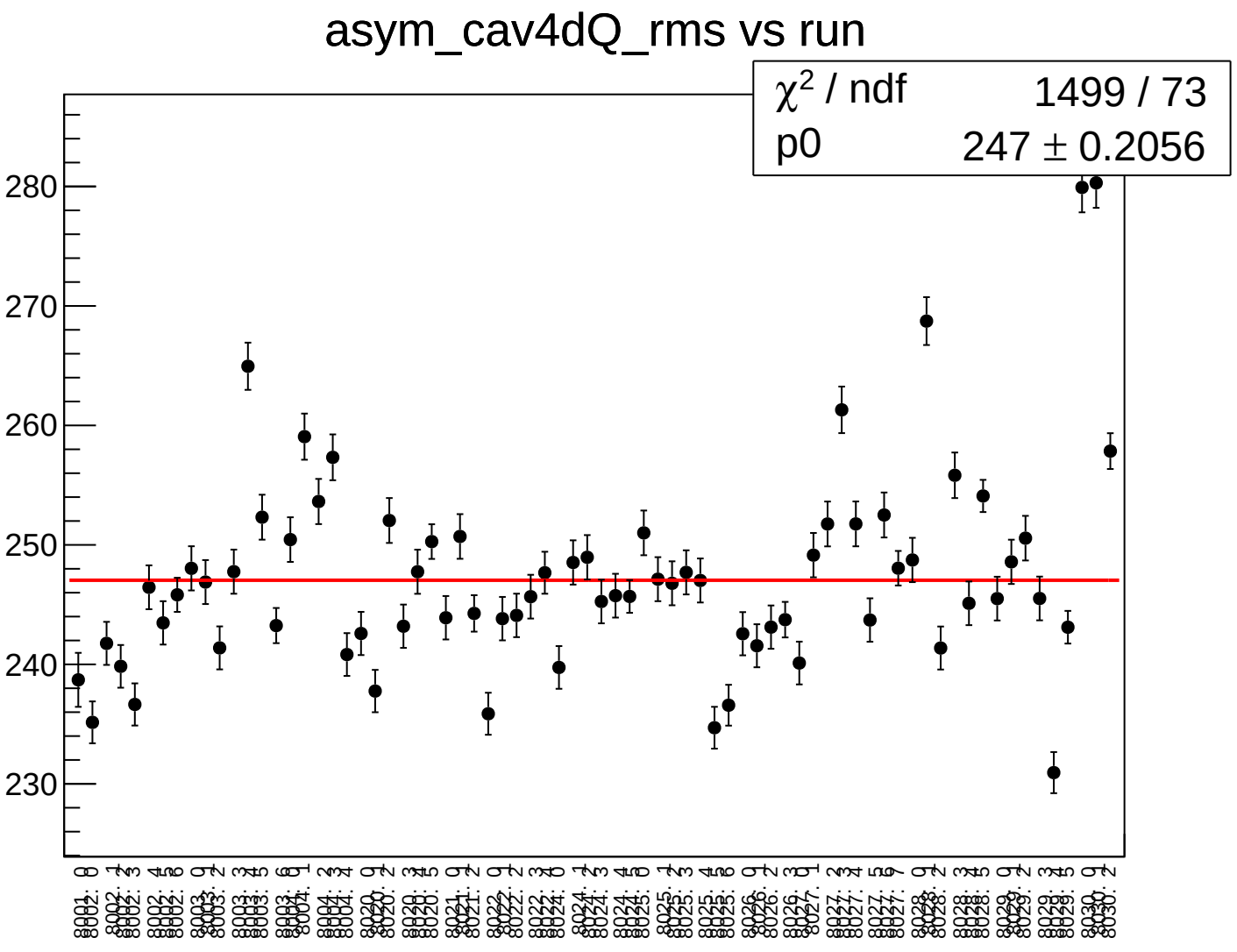

asym_cav4cQ_mean vs run
χ² / ndf 25.1 / 73
p0 150.7 ± 214.1
pull
Entries 74
Mean 239.6
Std Dev 219.2

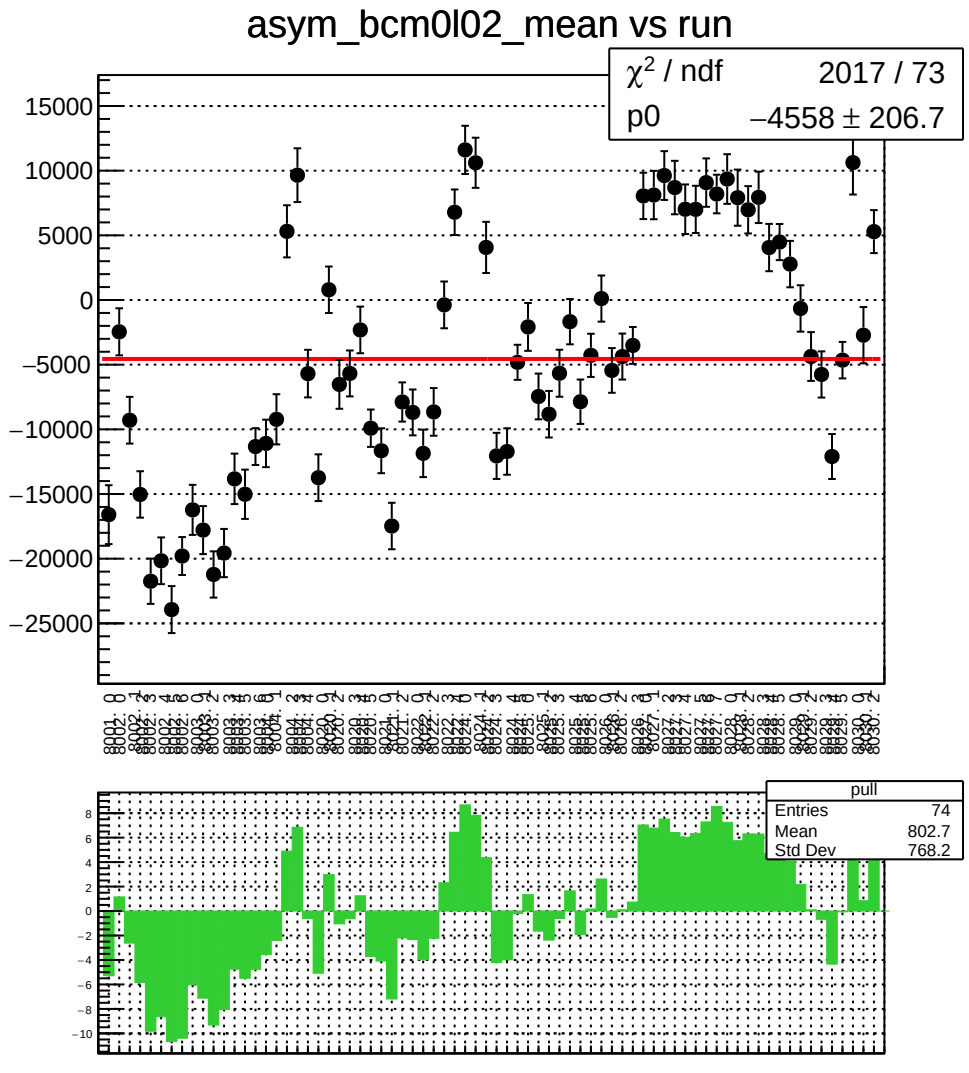

pull1D
Entries 74
Mean 0.003467
Std Dev 0.5824

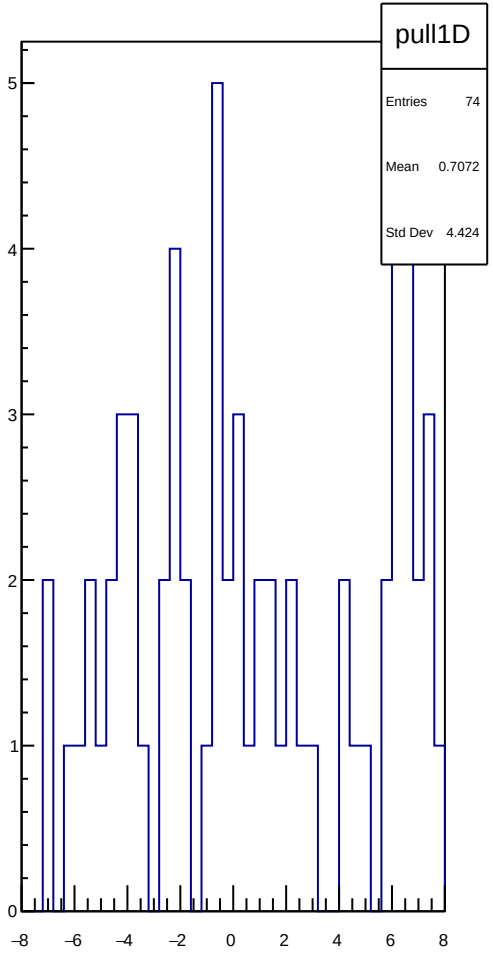

asym_cav4cQ_rms vs run
χ² / ndf 3905 / 73
p0 181.8 ± 0.1514
230
220
210
200
190
180
170
160

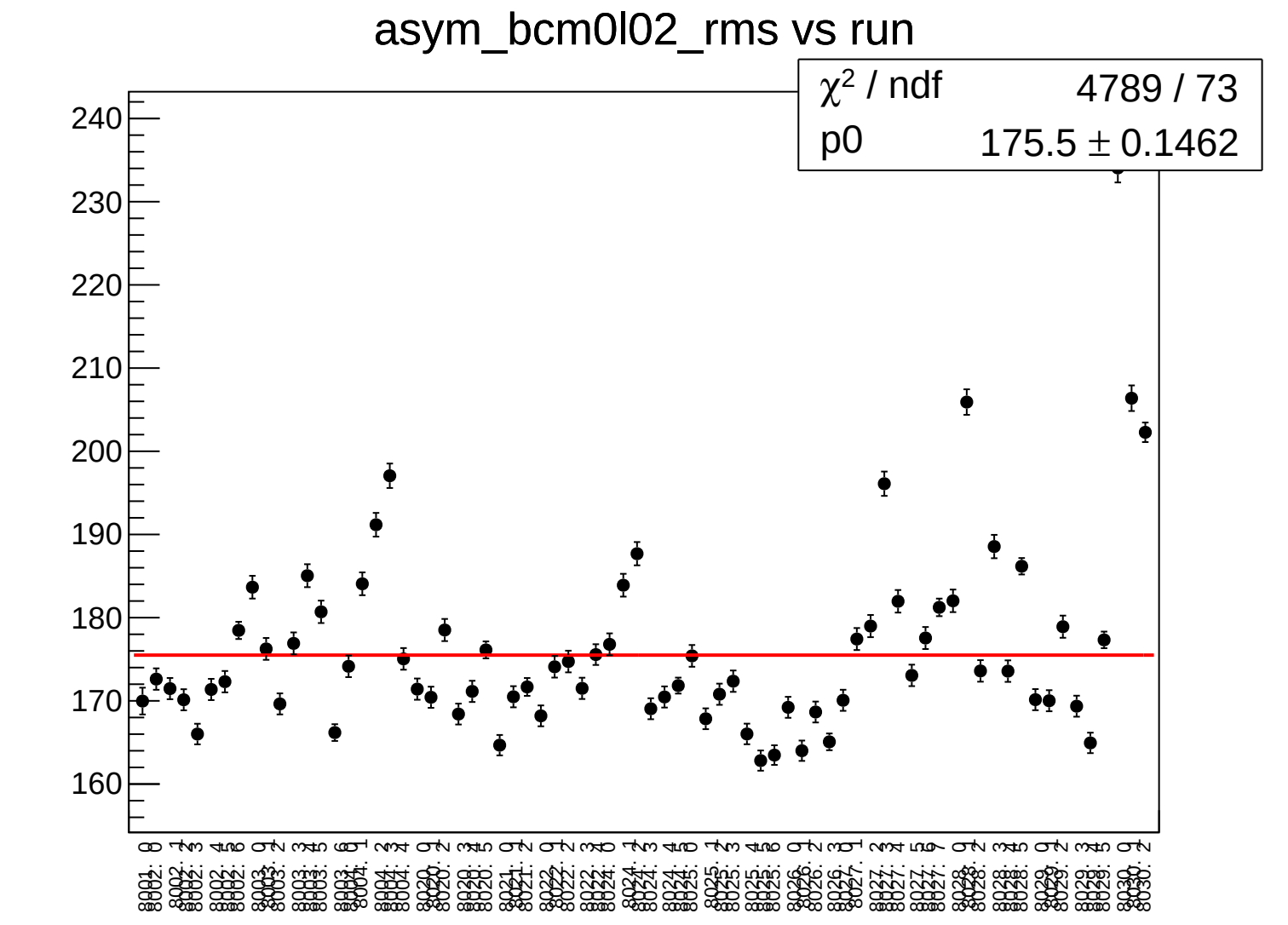

asym_cav4dQ_mean vs run
χ² / ndf 50.72 / 73
p0 301.2 ± 290.7
pull
Entries 74
Mean −1.19e+04
Std Dev 1.192e+04

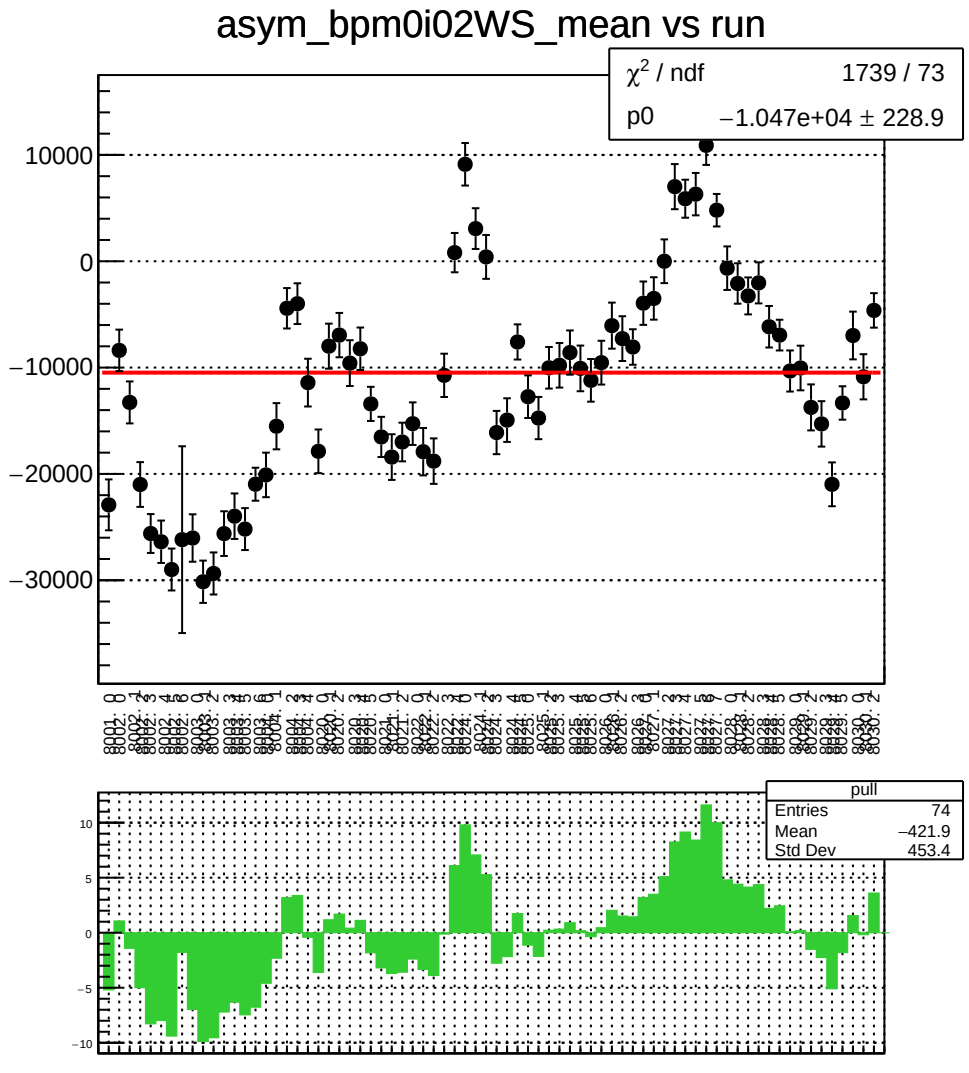

pull1D
Entries 74
Mean −0.0001925
Std Dev 0.8279

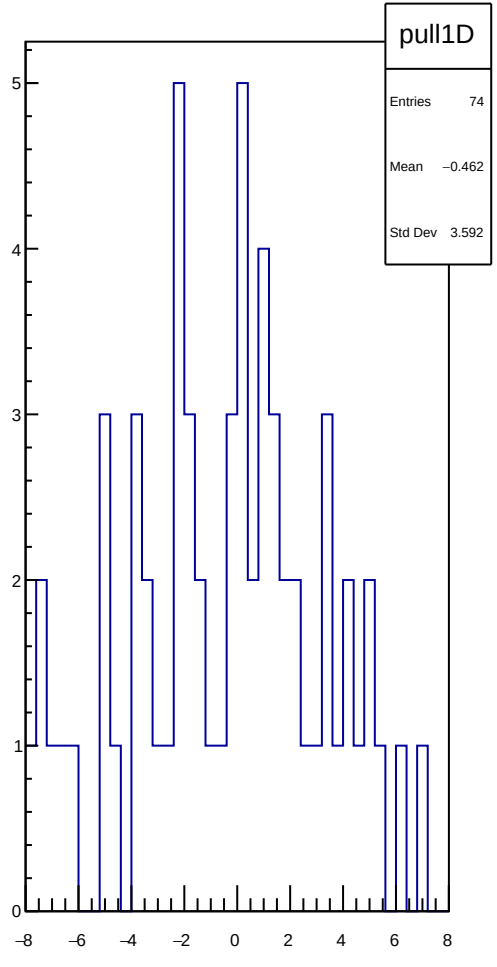

asym_cav4dQ_rms vs run
χ^2 / ndf 1499 / 73
p0 247 ± 0.2056
280
270
260
250
240
230

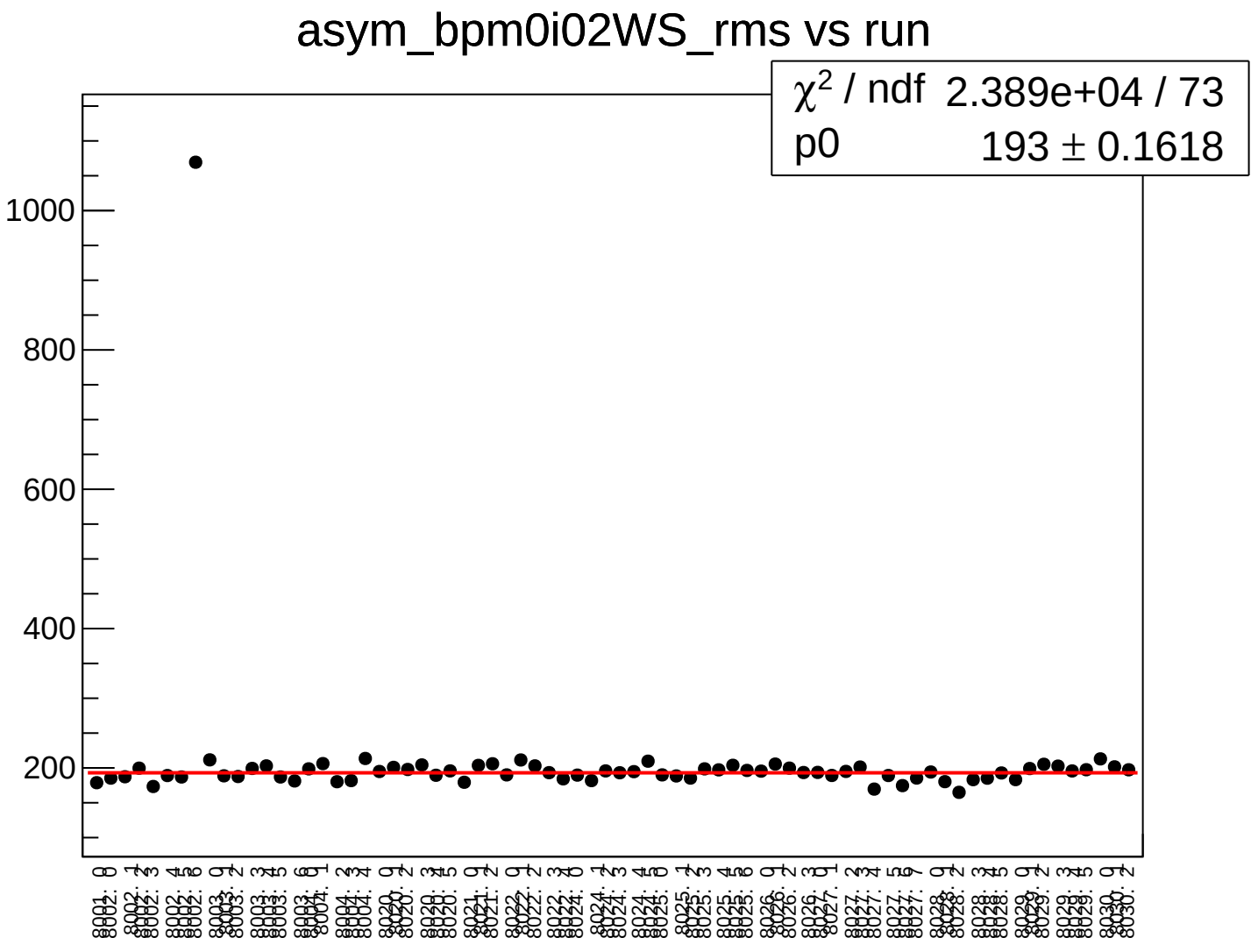

asym_bcm0l02_mean vs run
χ² / ndf 2017 / 73
p0 −4558 ± 206.7
pull
Entries 74
Mean 802.7
Std Dev 768.2

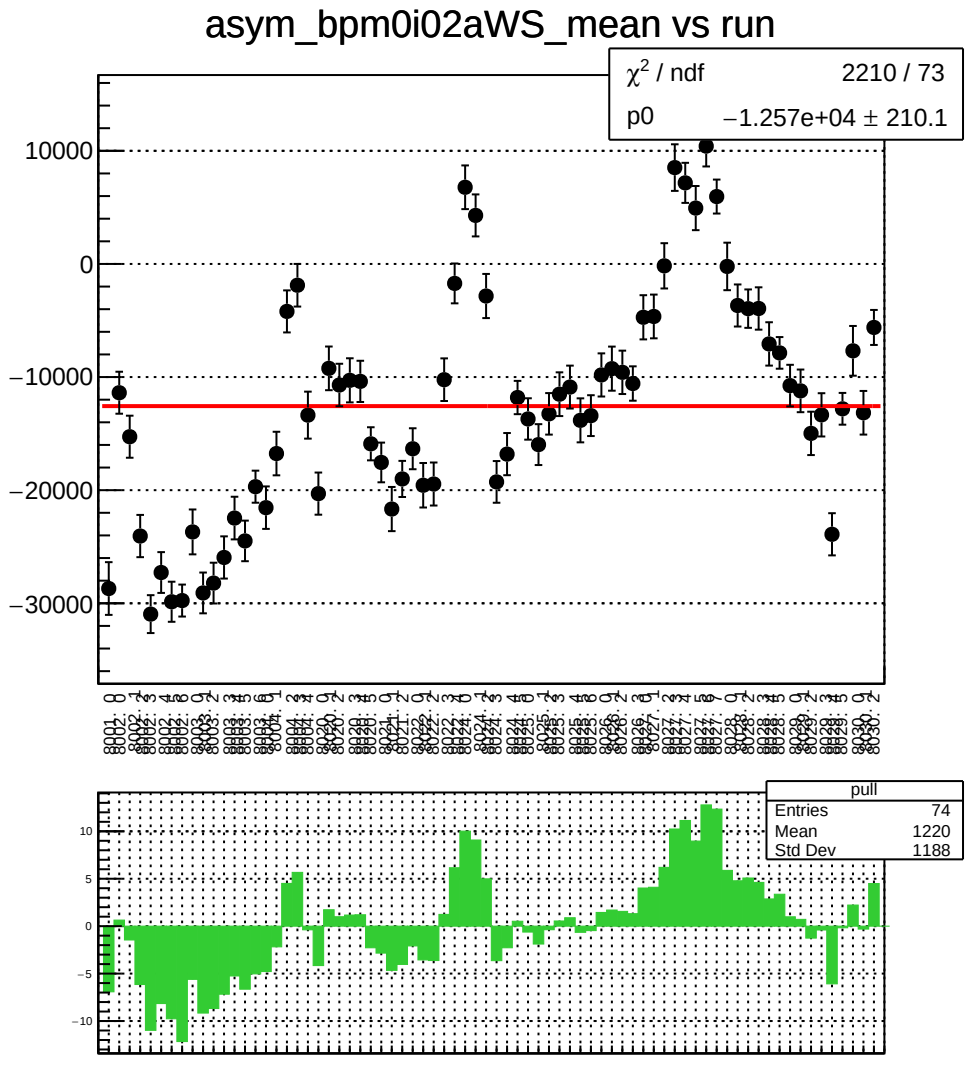

pull1D
Entries 74
Mean 0.7072
Std Dev 4.424

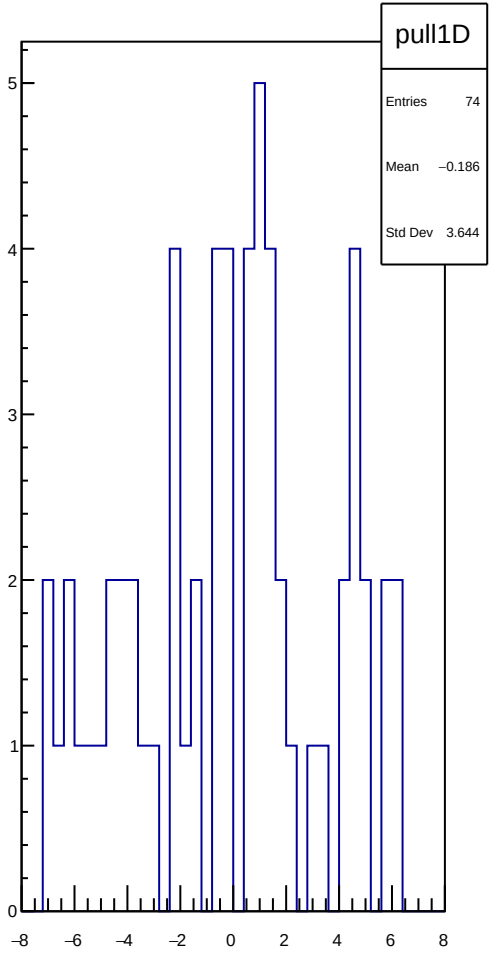

asym_bcm0l02_rms vs run
χ² / ndf 4789 / 73
p0 175.5 ± 0.1462
240
230
220
210
200
190
180
170
160

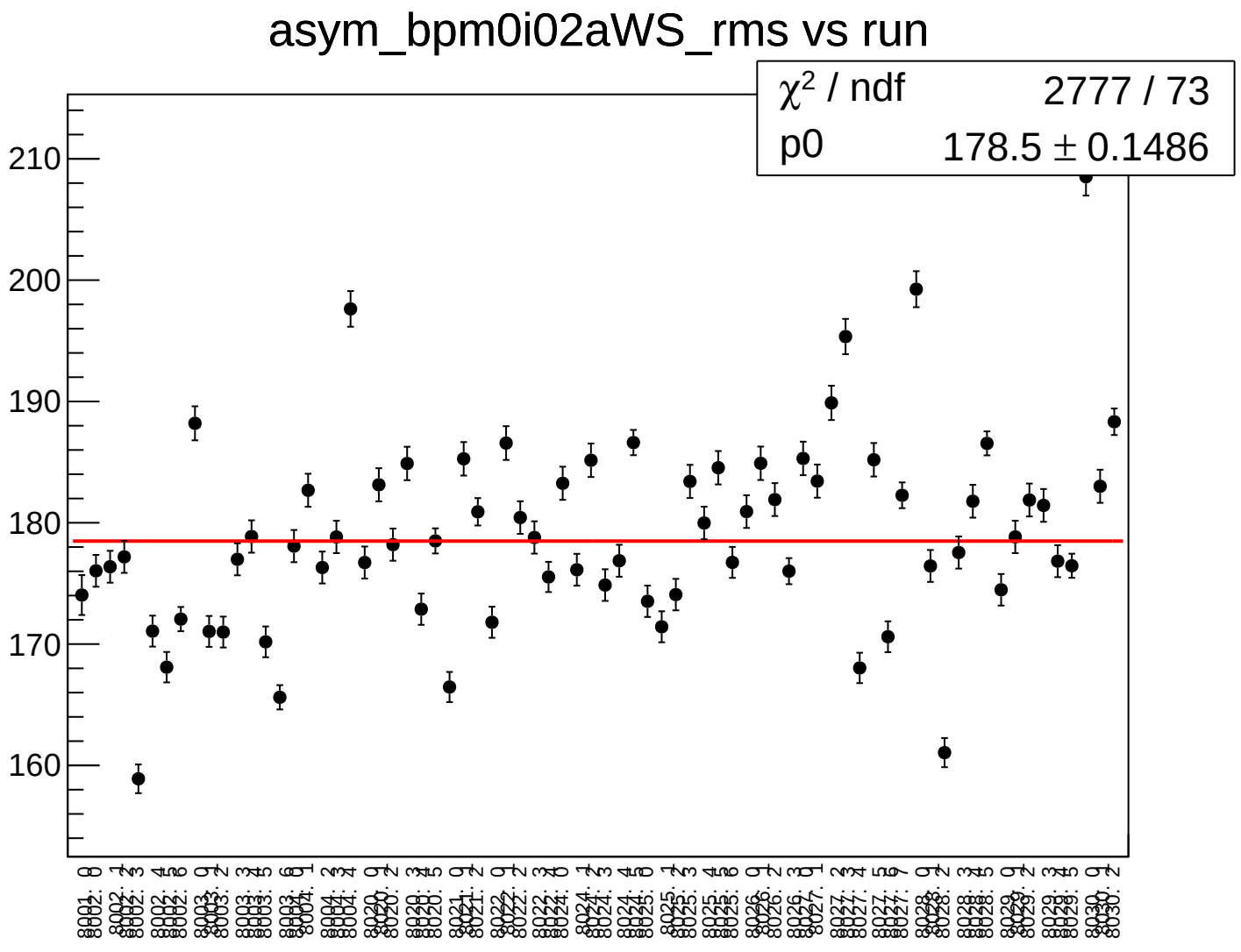

asym_bpm0i02WS_mean vs run
χ² / ndf 1739 / 73
p0 −1.047e+04 ± 228.9
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean −421.9
Std Dev 453.4
10
5
0
−5
−10

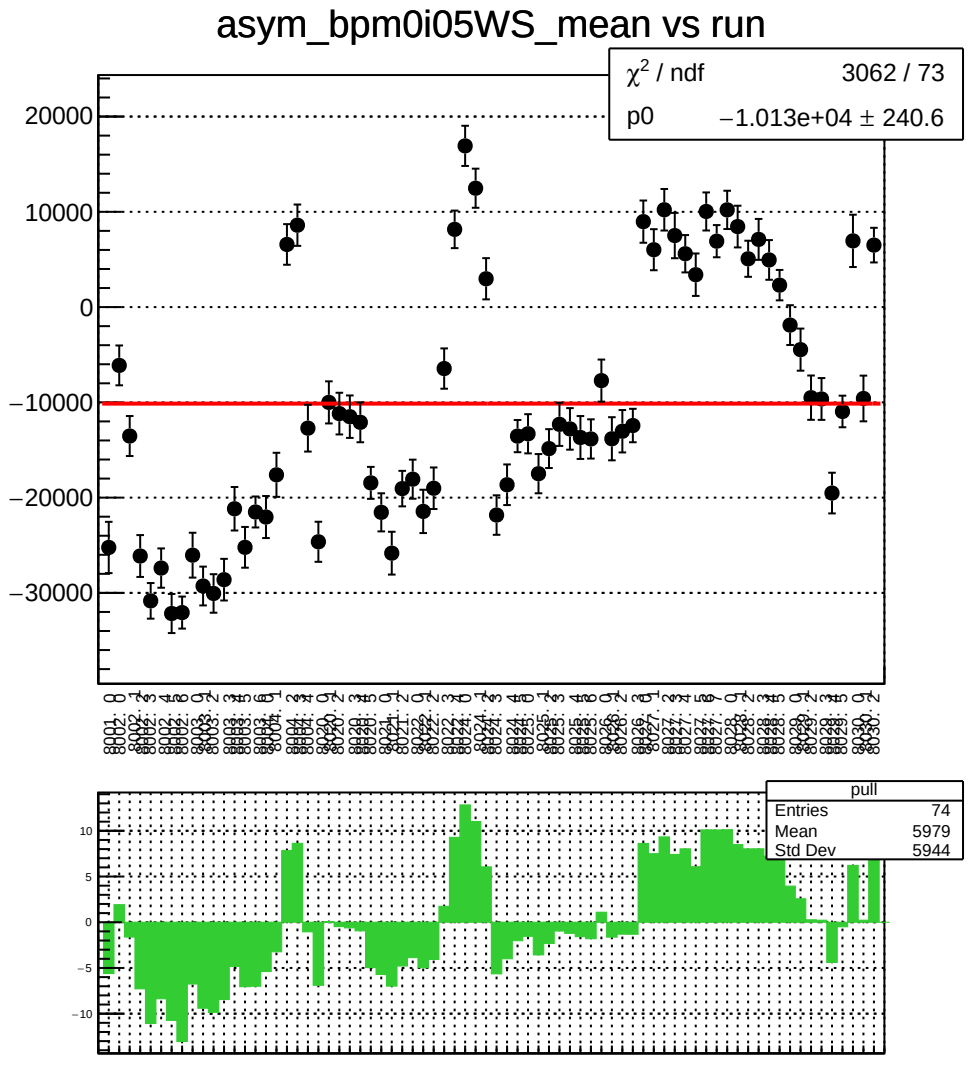

pull1D
Entries 74
Mean −0.462
Std Dev 3.592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

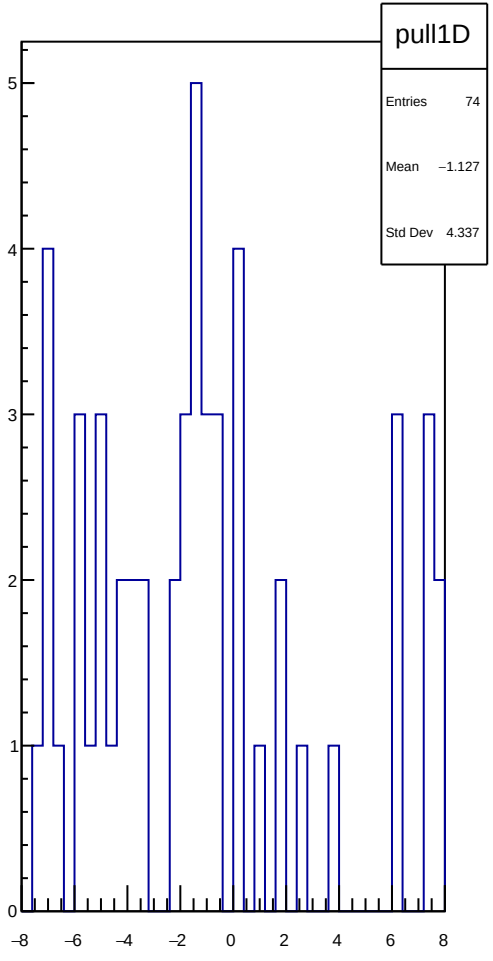

asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.389e+04 / 73
p0 193 ± 0.1618
1000
800
600
400
200

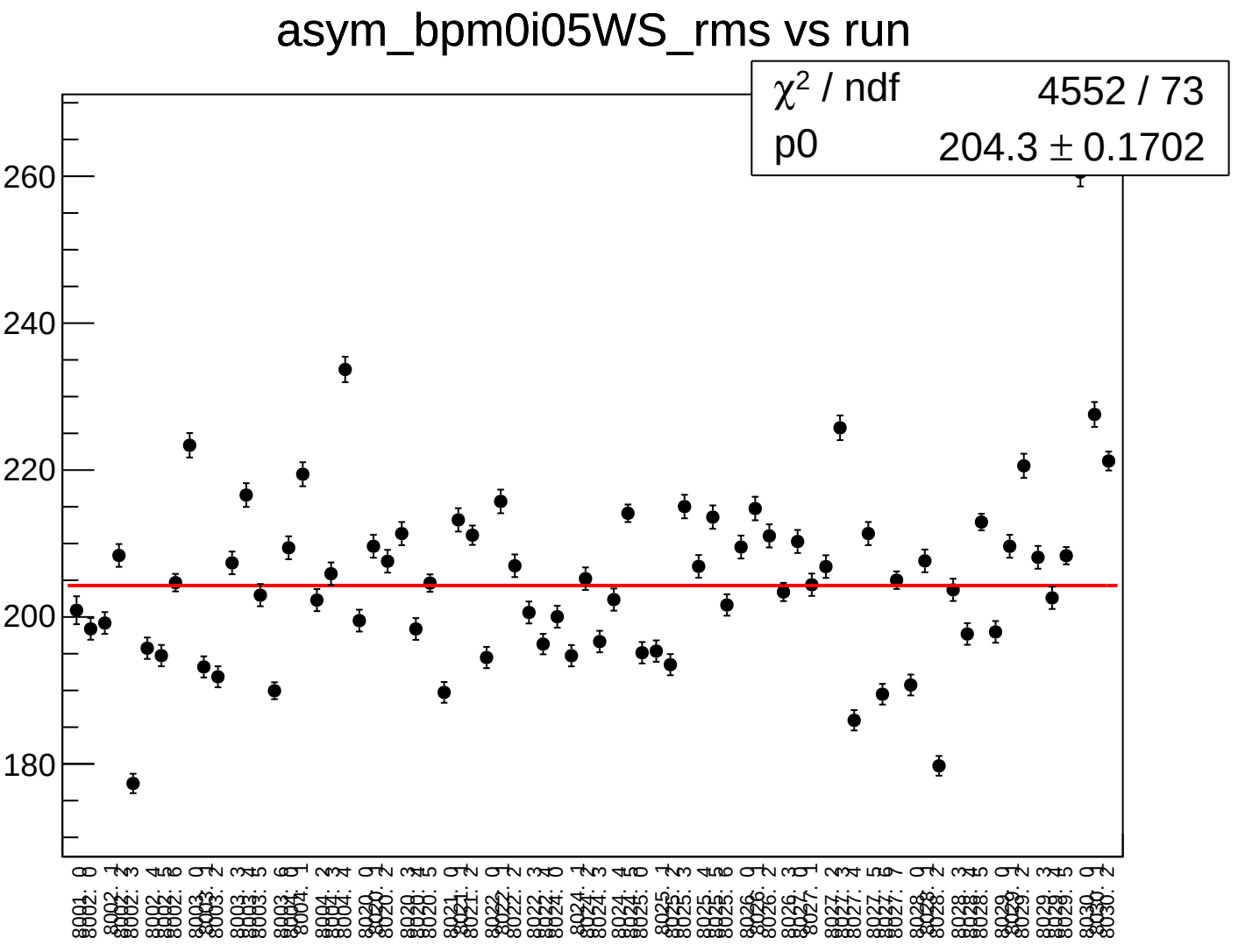

asym_bpm0i02aWS_mean vs run
χ² / ndf 2210 / 73
p0 −1.257e+04 ± 210.1
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 1220
Std Dev 1188
10
5
0
−5
−10

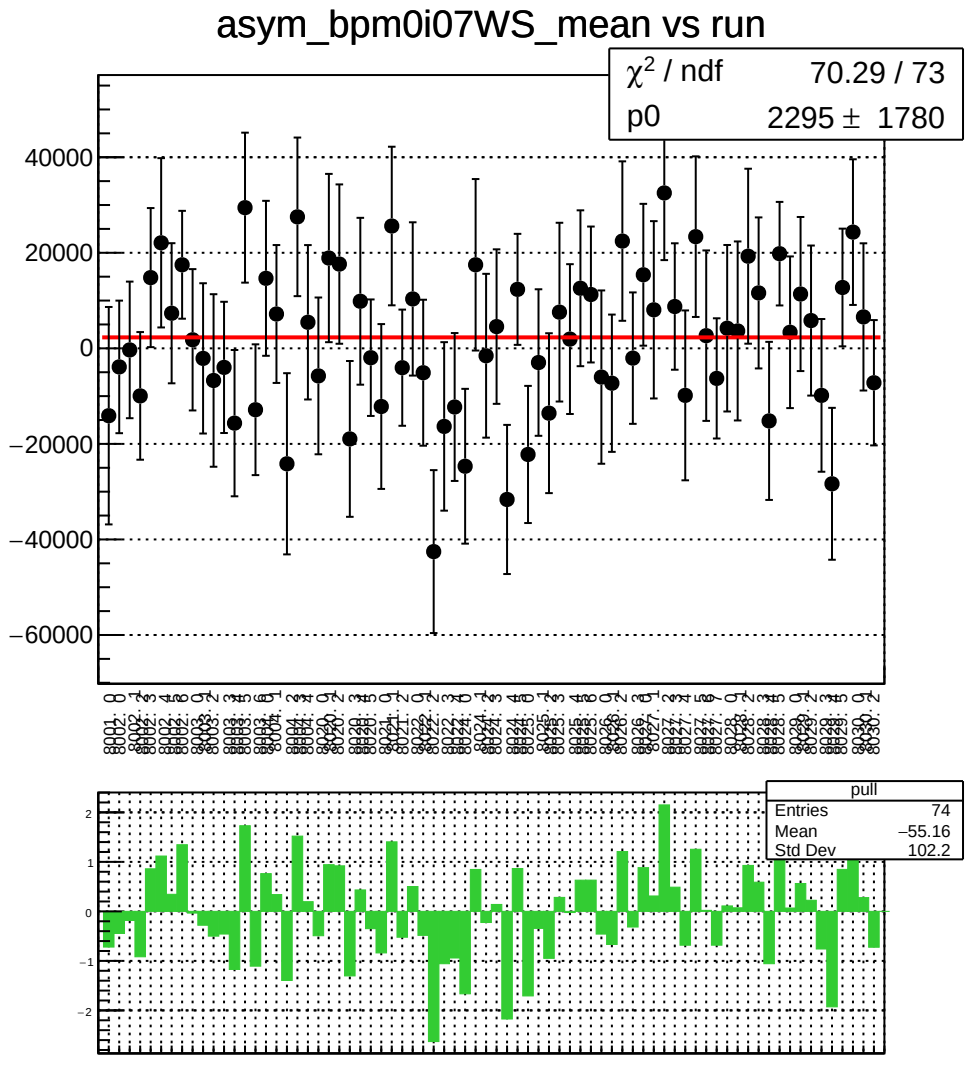

pull1D
Entries 74
Mean −0.186
Std Dev 3.644
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

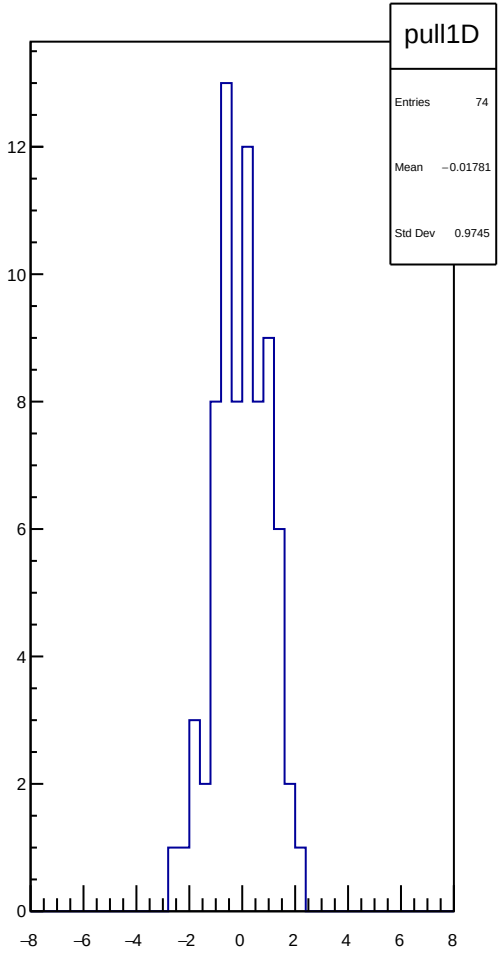

asym_bpm0i02aWS_rms vs run
χ² / ndf 2777 / 73
p0 178.5 ± 0.1486
210
200
190
180
170
160

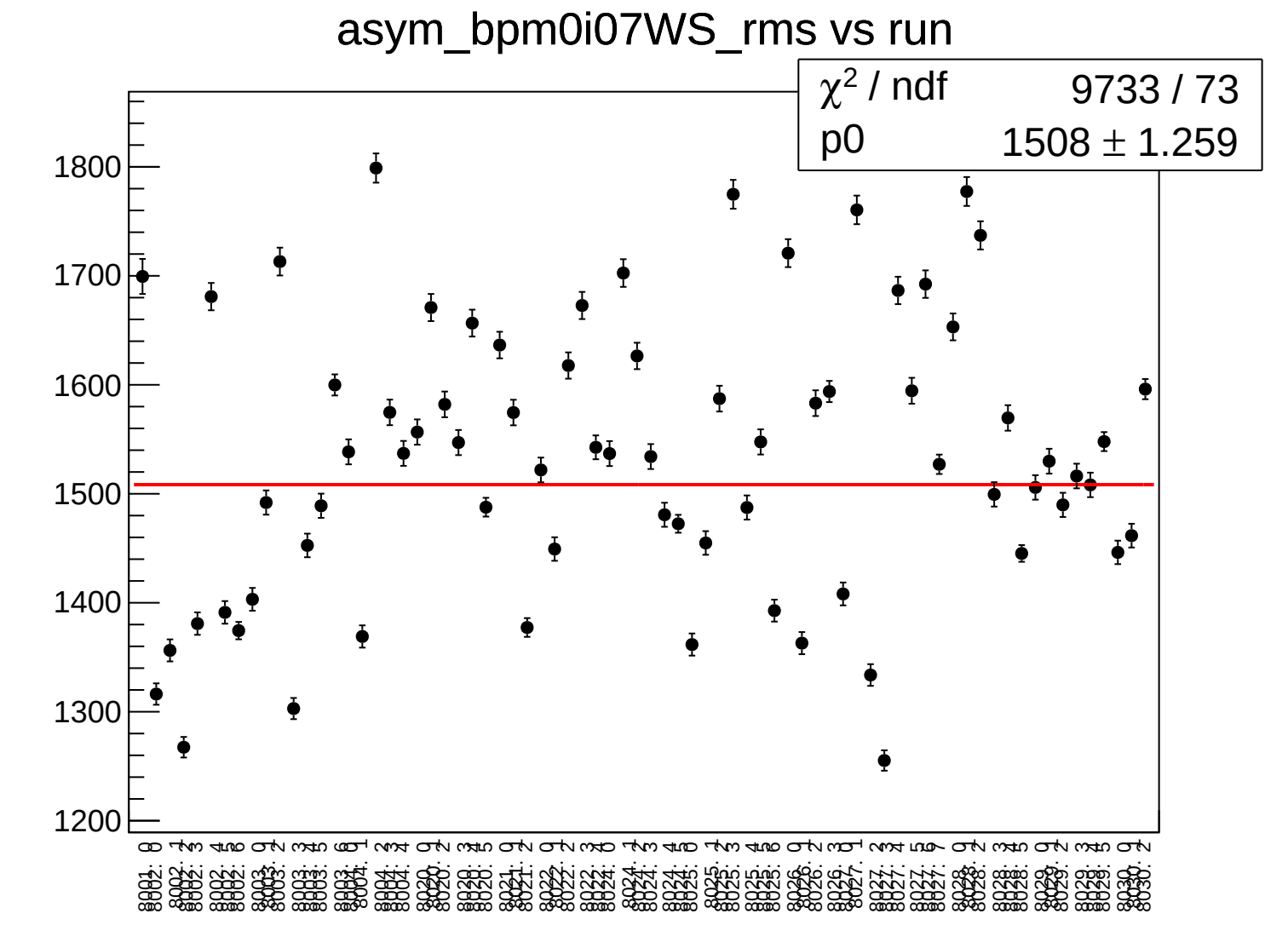

asym_bpm0i05WS_mean vs run
χ² / ndf 3062 / 73
p0 −1.013e+04 ± 240.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 5979
Std Dev 5944
10
5
0
−5
−10

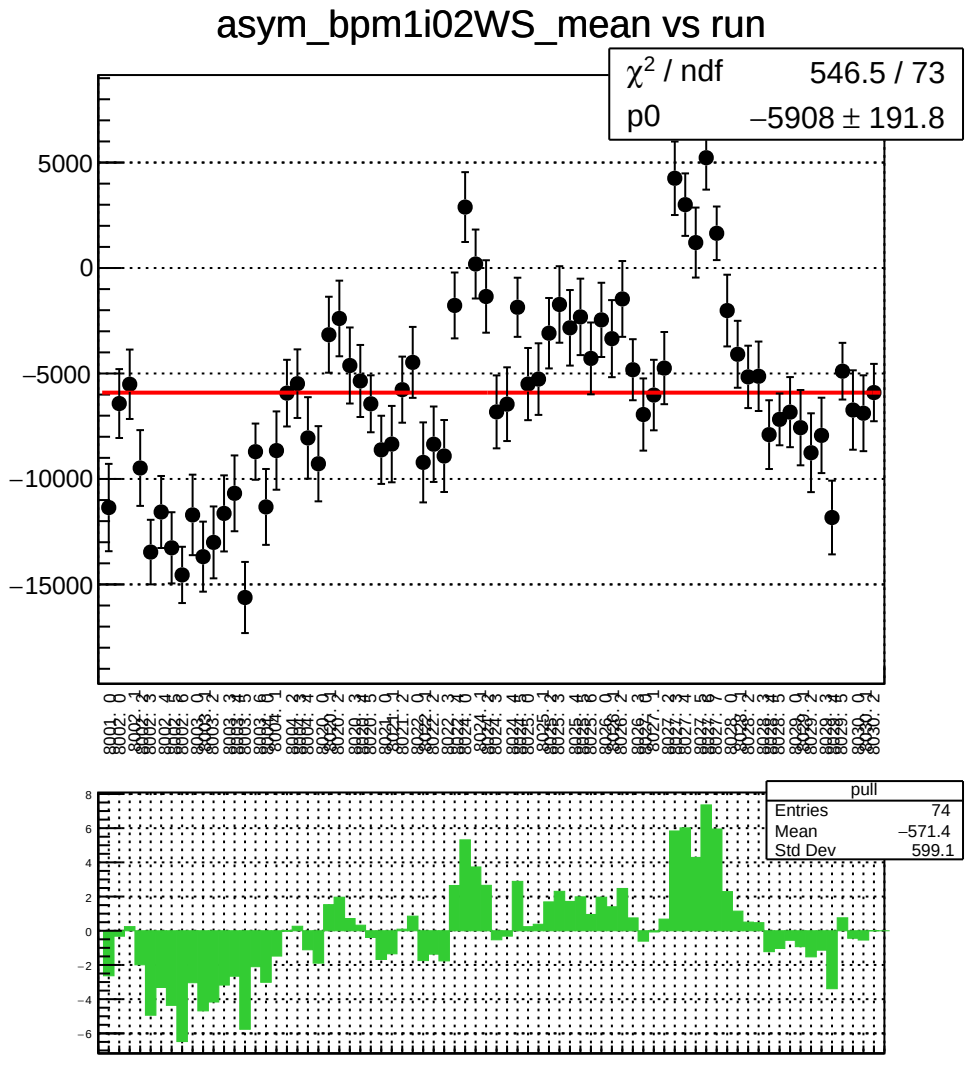

pull1D
Entries 74
Mean −1.127
Std Dev 4.337
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

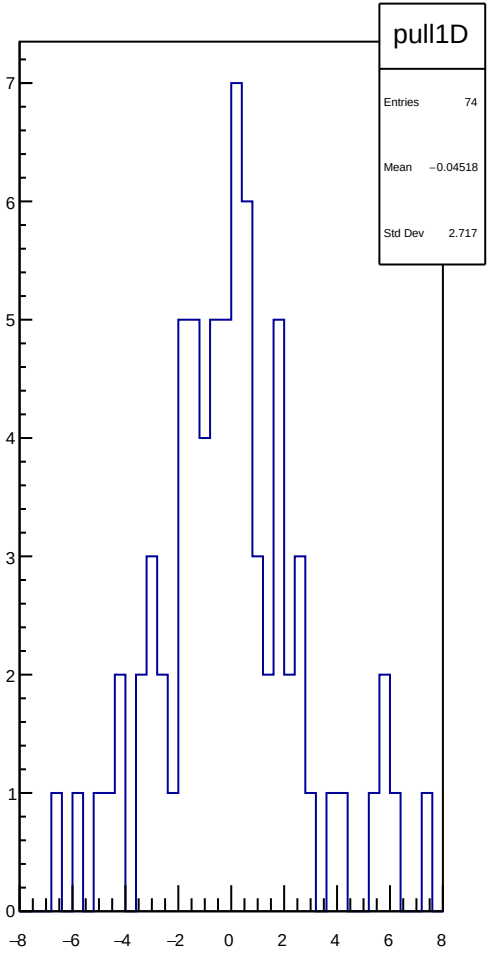

asym_bpm0i05WS_rms vs run
χ² / ndf 4552 / 73
p0 204.3 ± 0.1702
260
240
220
200
180

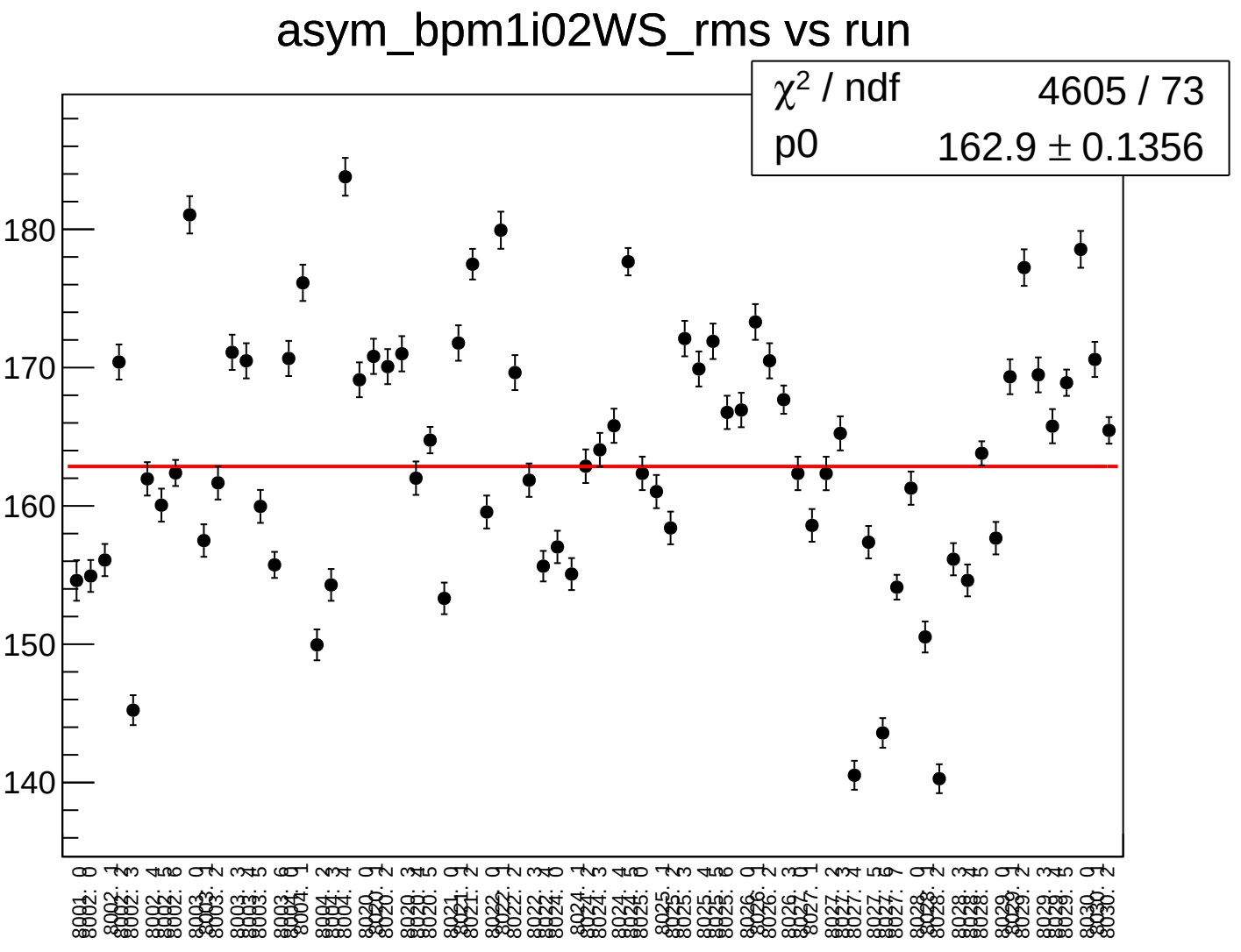

asym_bpm0i07WS_mean vs run
χ² / ndf 70.29 / 73
p0 2295 ± 1780
40000
20000
0
−20000
−40000
−60000
pull
Entries 74
Mean −55.16
Std Dev 102.2
2
1
0
−1
−2

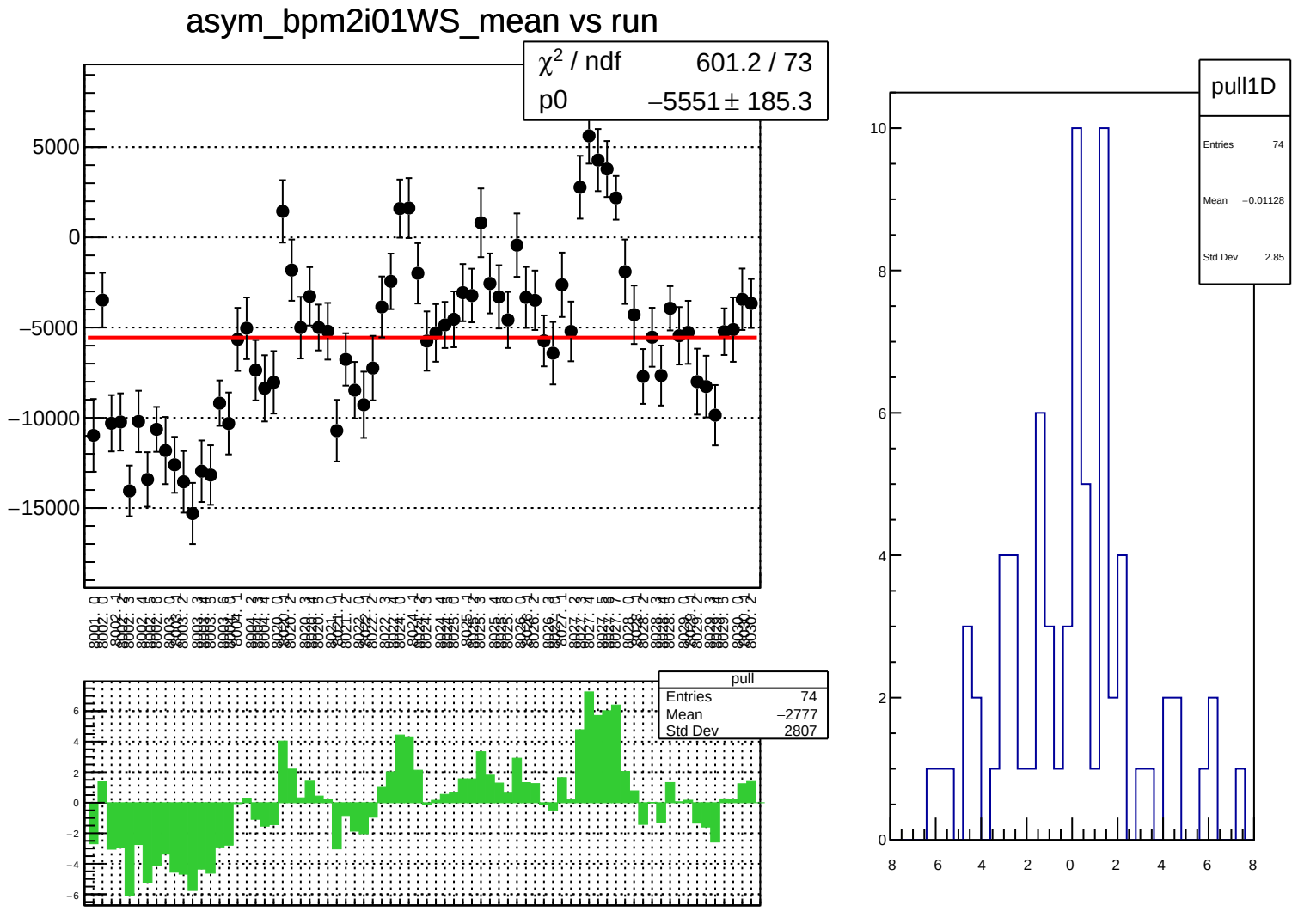

pull1D
Entries 74
Mean −0.01781
Std Dev 0.9745
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

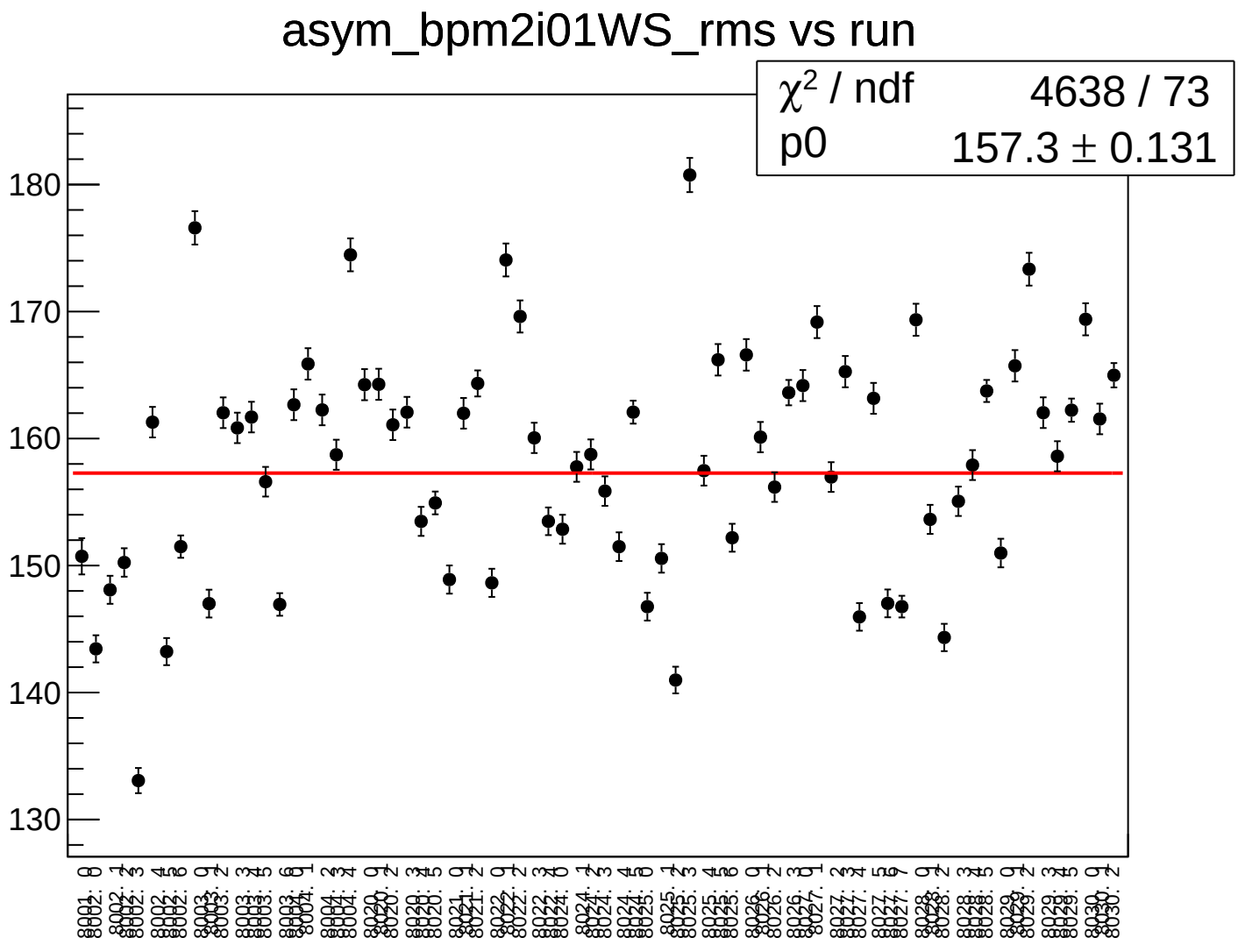

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9733 / 73
p0 1508 ± 1.259
1800
1700
1600
1500
1400
1300
1200

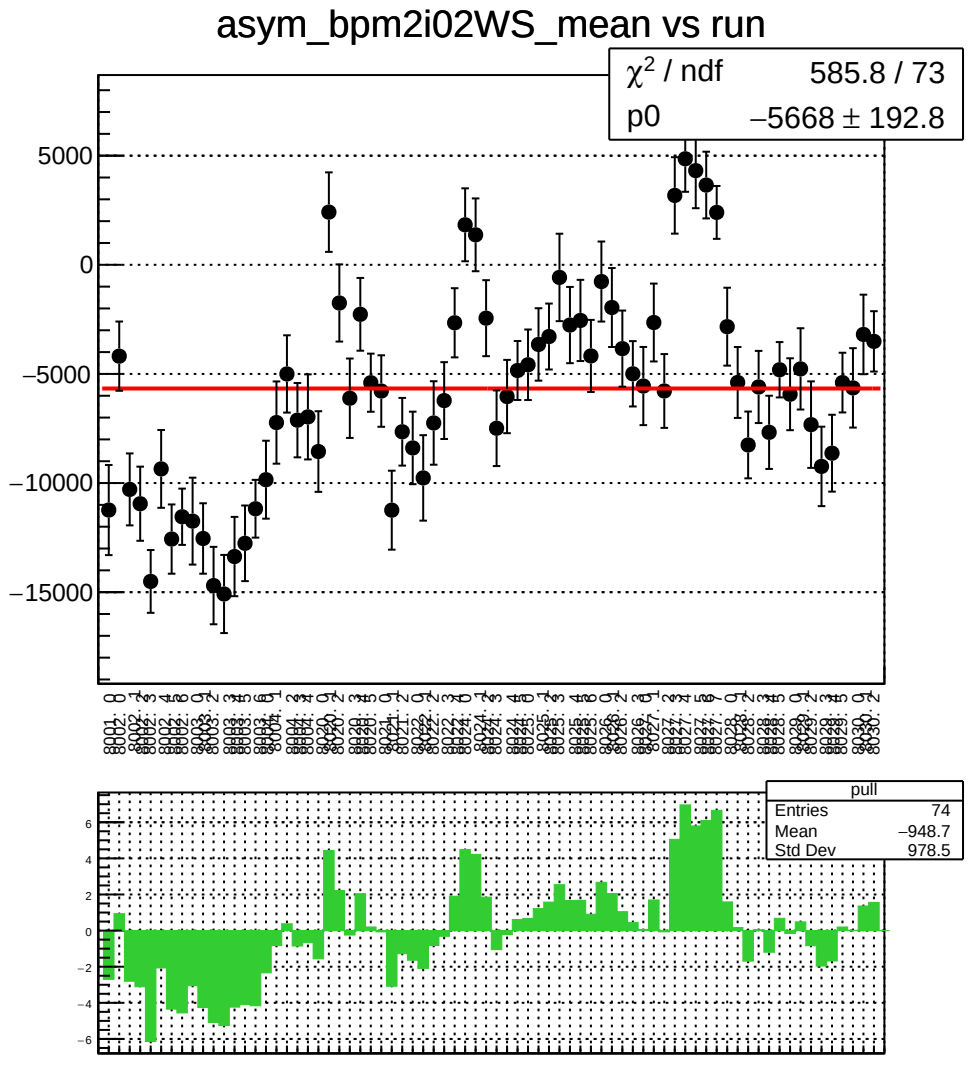

asym_bpm1i02WS_mean vs run
χ² / ndf 546.5 / 73
p0 −5908 ± 191.8
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean −571.4
Std Dev 599.1
8
6
4
2
0
−2
−4
−6

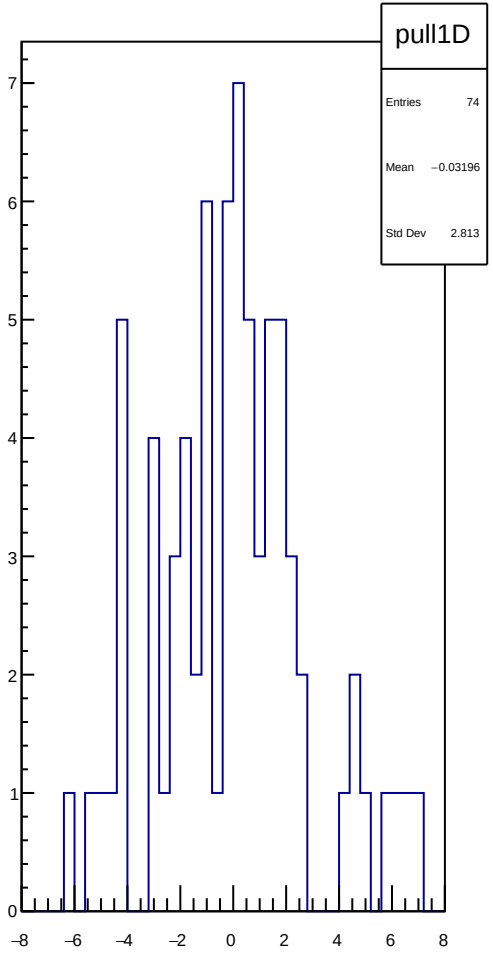

pull1D
Entries 74
Mean −0.04518
Std Dev 2.717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

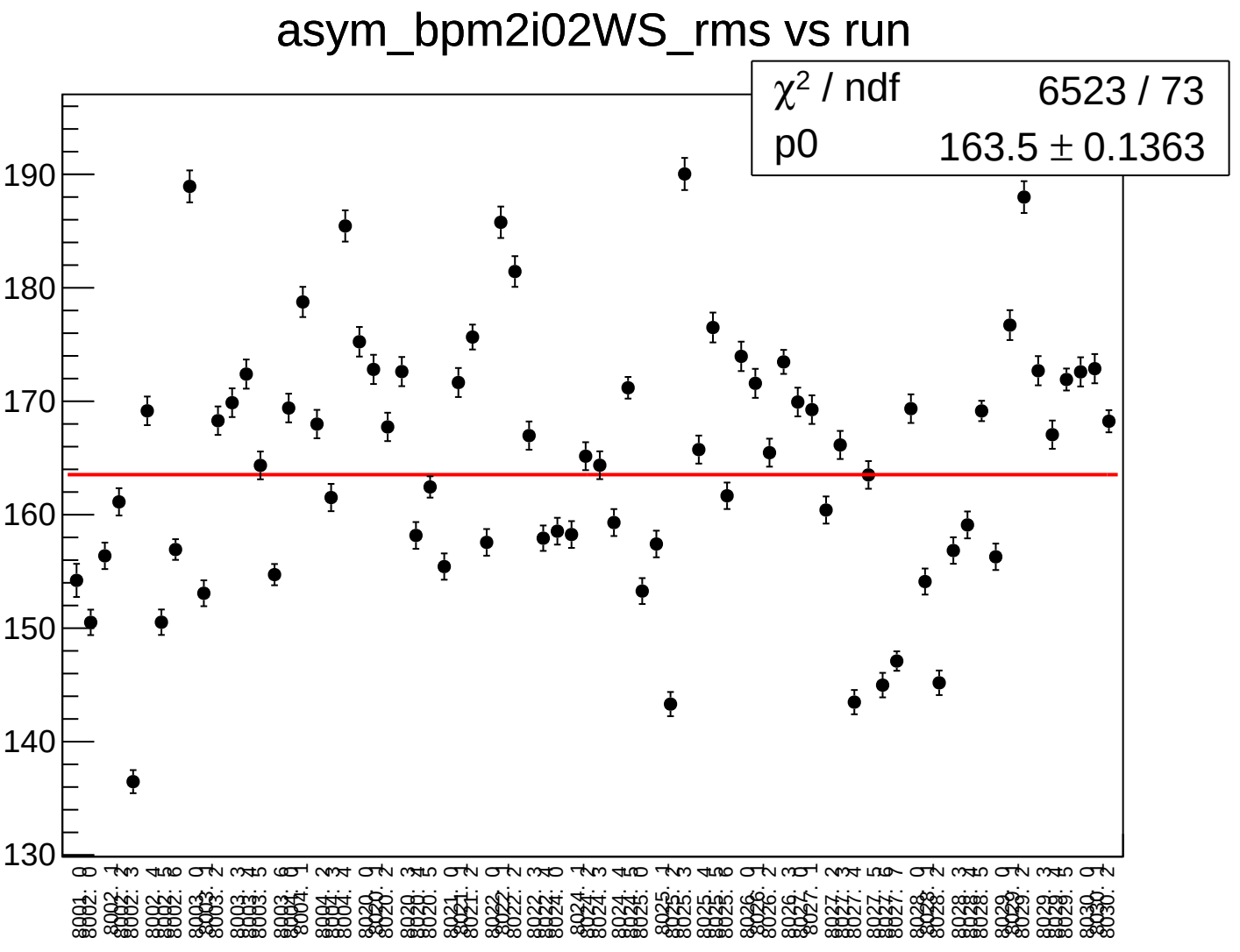

asym_bpm1i02WS_rms vs run
χ² / ndf 4605 / 73
p0 162.9 ± 0.1356
180
170
160
150
140

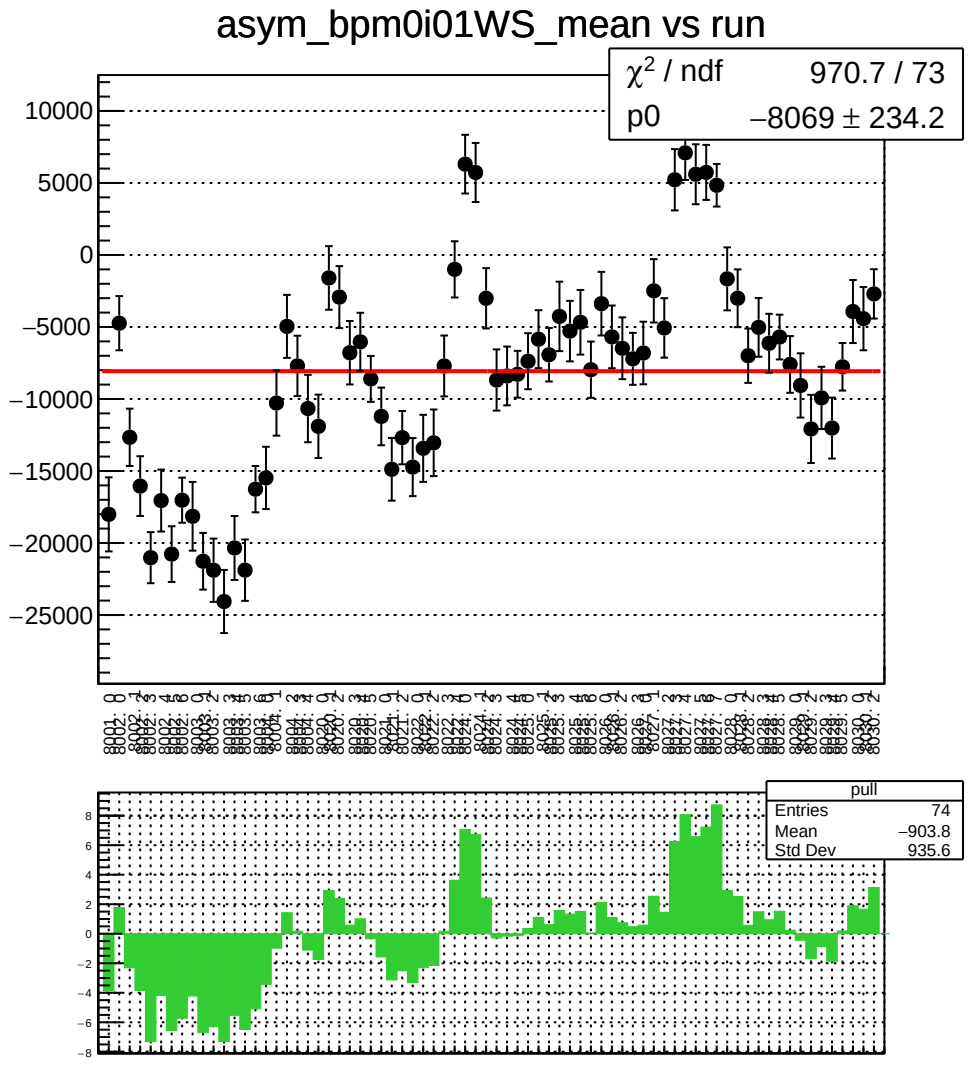

asym_bpm2i01WS_mean vs run
χ^2 / ndf 601.2 / 73
p0 −5551 ± 185.3
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean −2777
Std Dev 2807
pull1D
Entries 74
Mean −0.01128
Std Dev 2.85

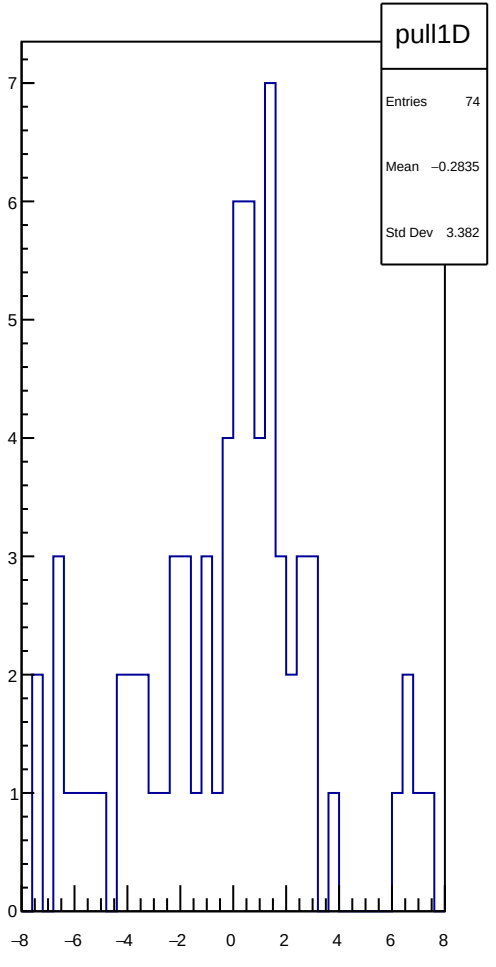

asym_bpm2i01WS_rms vs run
χ² / ndf 4638 / 73
p0 157.3 ± 0.131
180
170
160
150
140
130

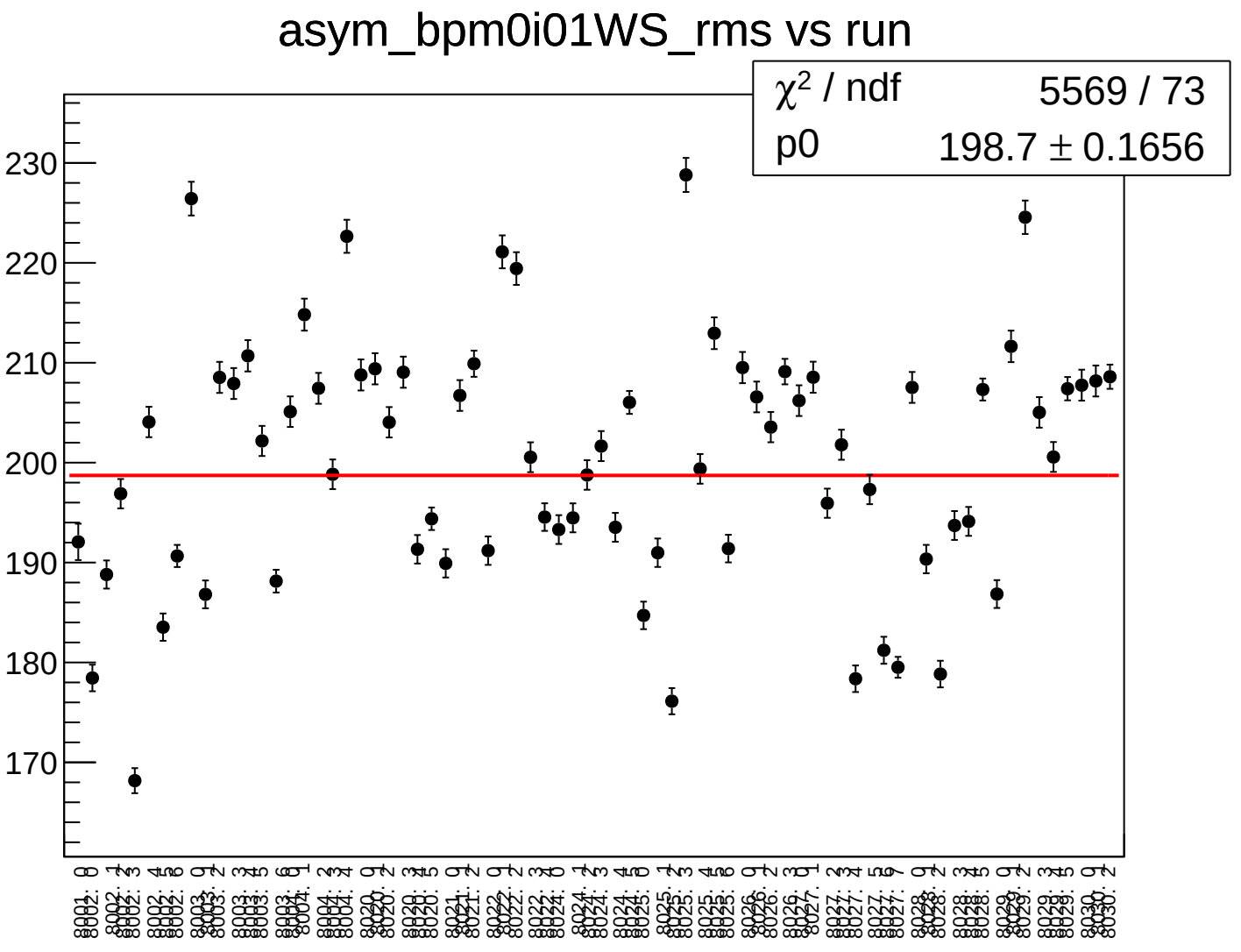

asym_bpm2i02WS_mean vs run
χ² / ndf 585.8 / 73
p0 −5668 ± 192.8
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean −948.7
Std Dev 978.5
6
4
2
0
−2
−4
−6

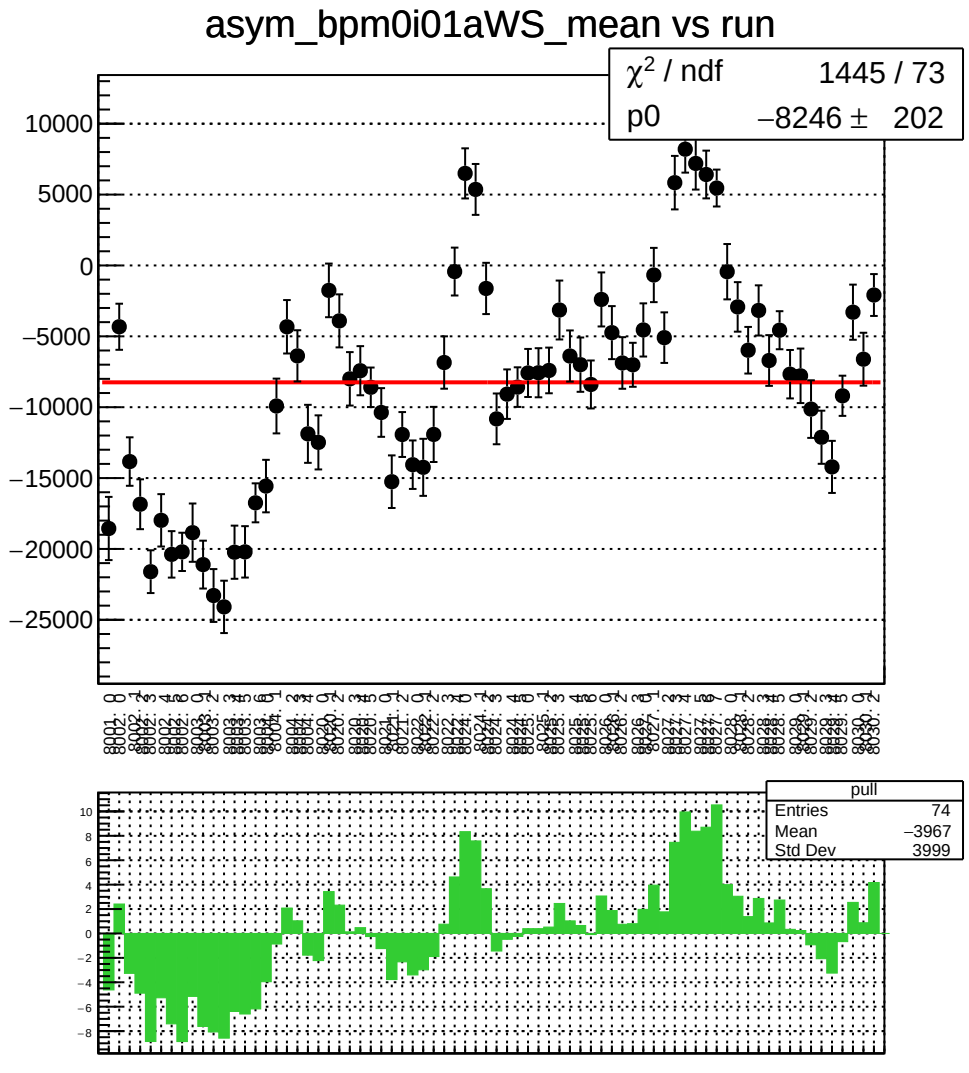

pull1D
Entries 74
Mean −0.03196
Std Dev 2.813
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

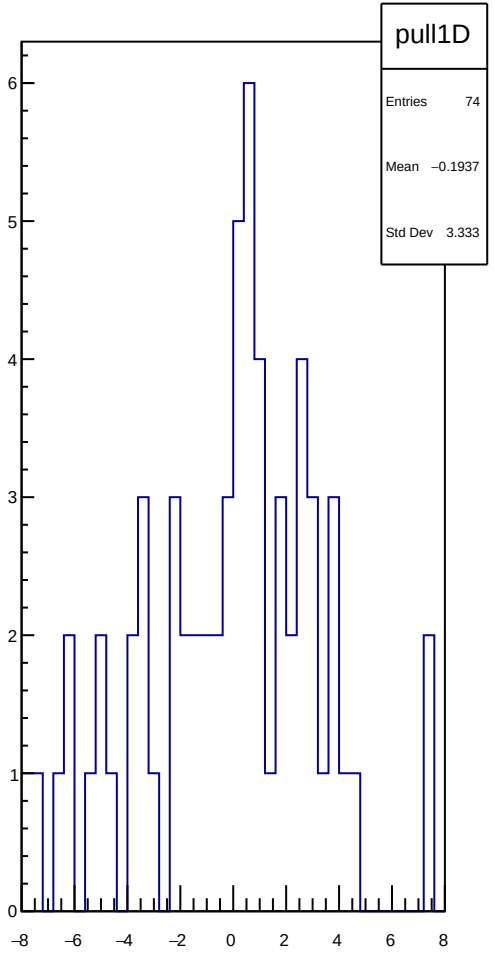

asym_bpm2i02WS_rms vs run
χ^2 / ndf 6523 / 73
p0 163.5 ± 0.1363
190
180
170
160
150
140
130

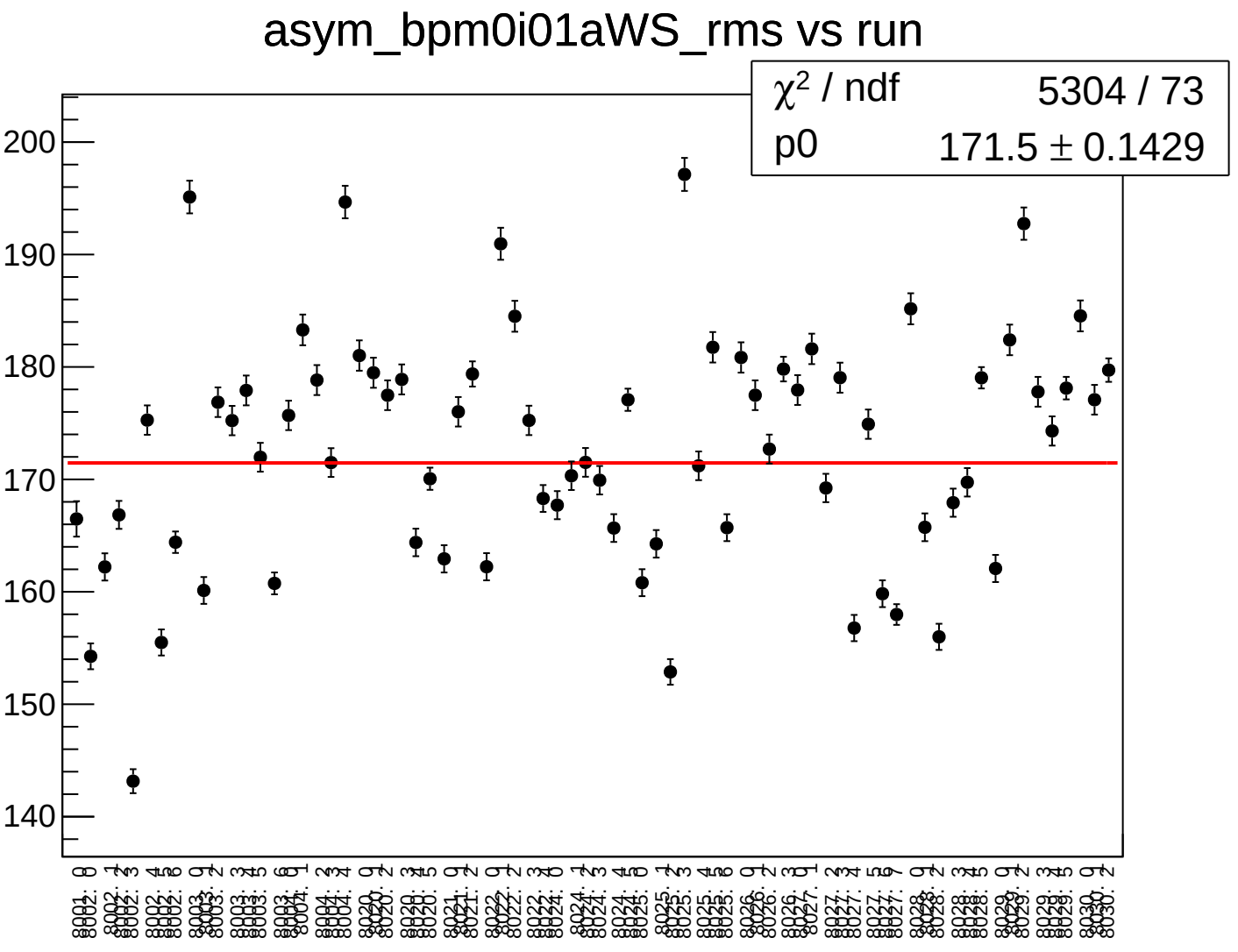

asym_bpm0i01WS_mean vs run
χ^2 / ndf 970.7 / 73
p0 −8069 ± 234.2
pull
Entries 74
Mean −903.8
Std Dev 935.6

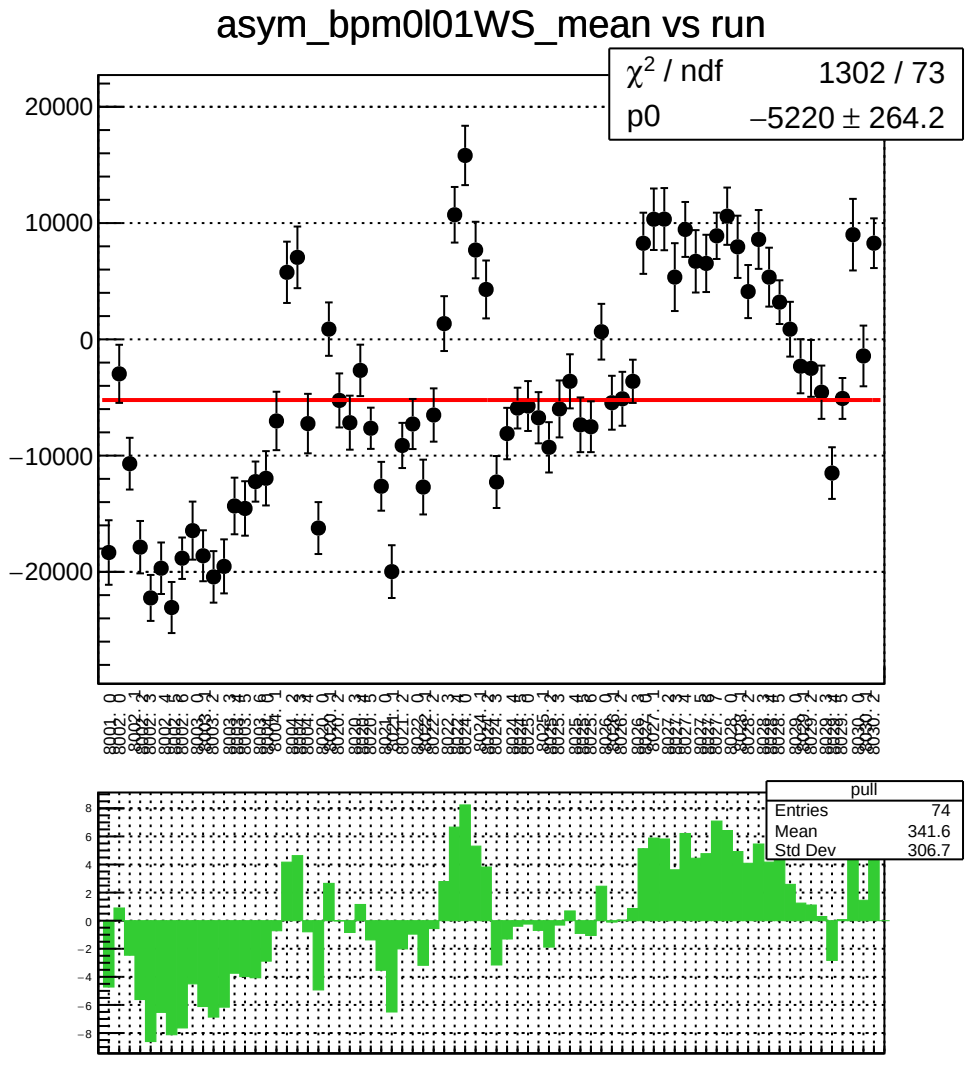

pull1D
Entries 74
Mean −0.2835
Std Dev 3.382

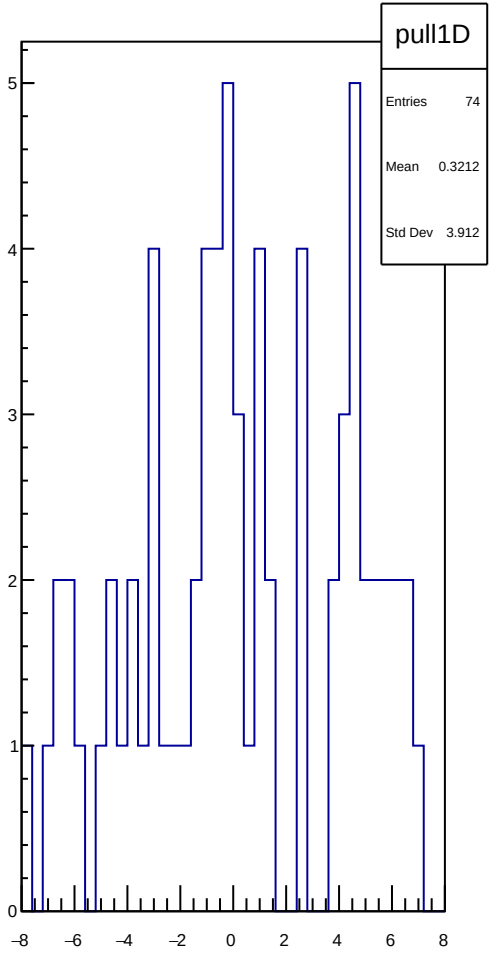

asym_bpm0i01WS_rms vs run
χ² / ndf 5569 / 73
p0 198.7 ± 0.1656
230
220
210
200
190
180
170

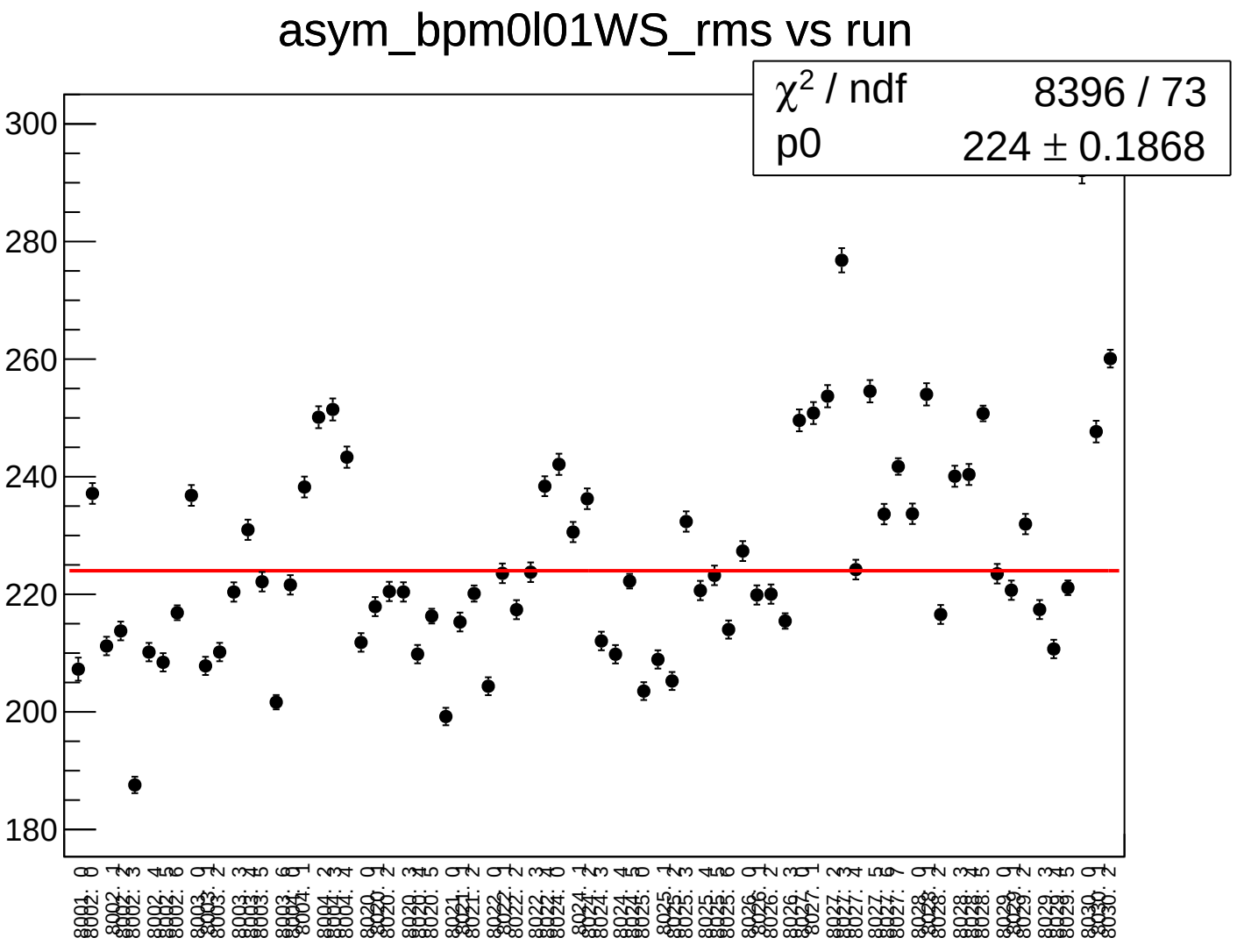

asym_bpm0i01aWS_mean vs run
χ² / ndf 1445 / 73
p0 −8246 ± 202
pull
Entries 74
Mean −3967
Std Dev 3999

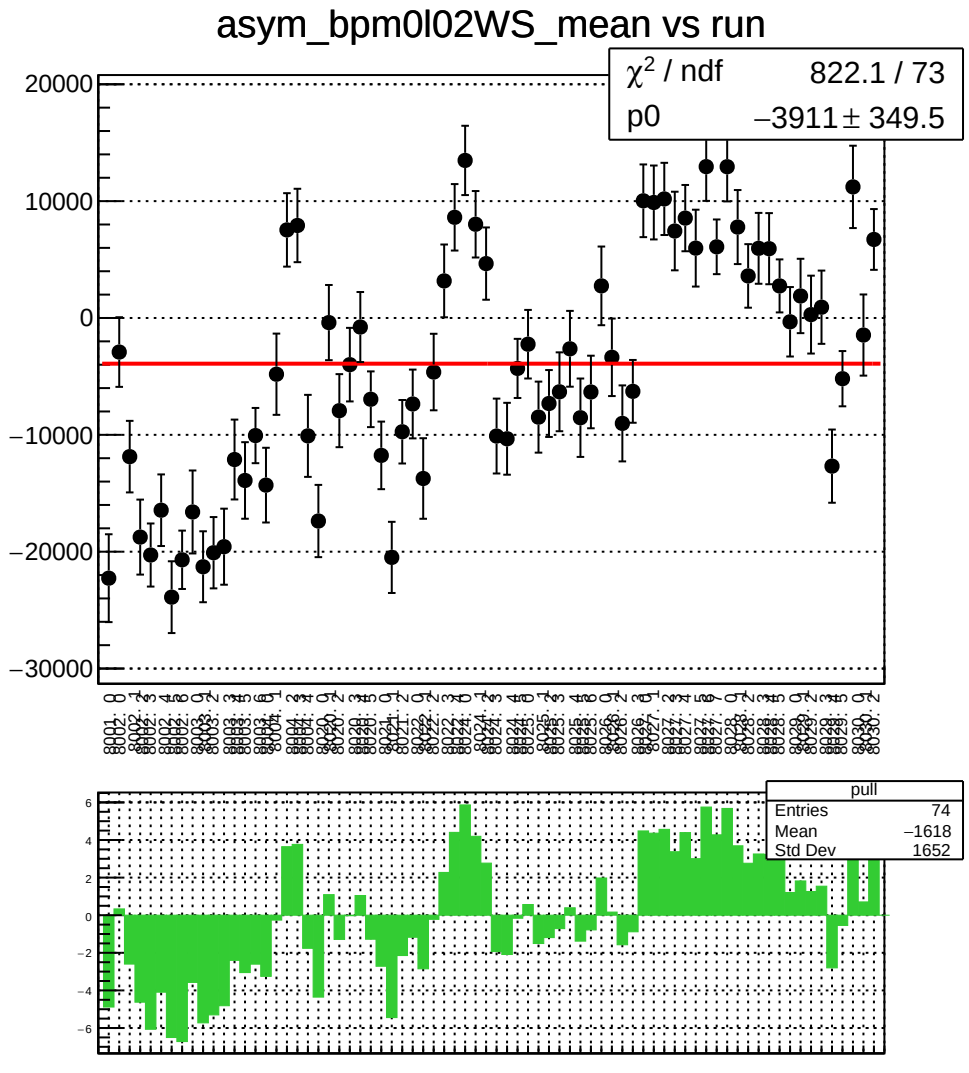

pull1D
Entries 74
Mean −0.1937
Std Dev 3.333

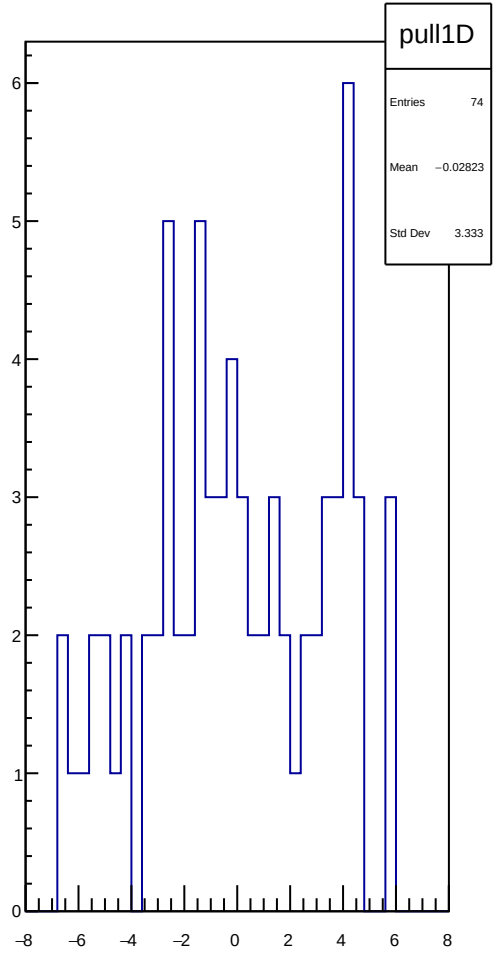

asym_bpm0i01aWS_rms vs run
χ² / ndf 5304 / 73
p0 171.5 ± 0.1429
200
190
180
170
160
150
140

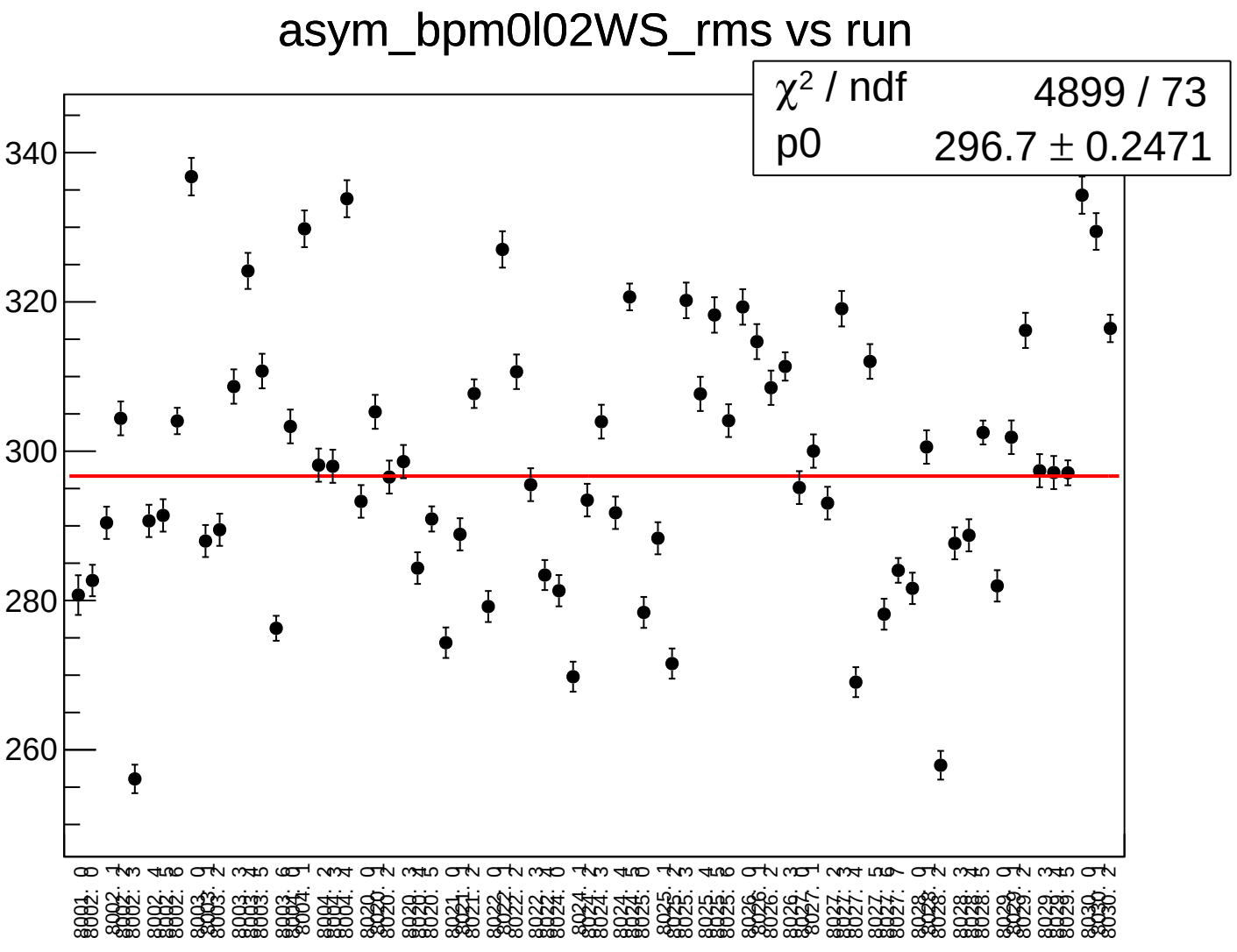

asym_bpm0l01WS_mean vs run
χ² / ndf 1302 / 73
p0 −5220 ± 264.2
20000
10000
0
−10000
−20000
pull
Entries 74
Mean 341.6
Std Dev 306.7
8
6
4
2
0
−2
−4
−6
−8

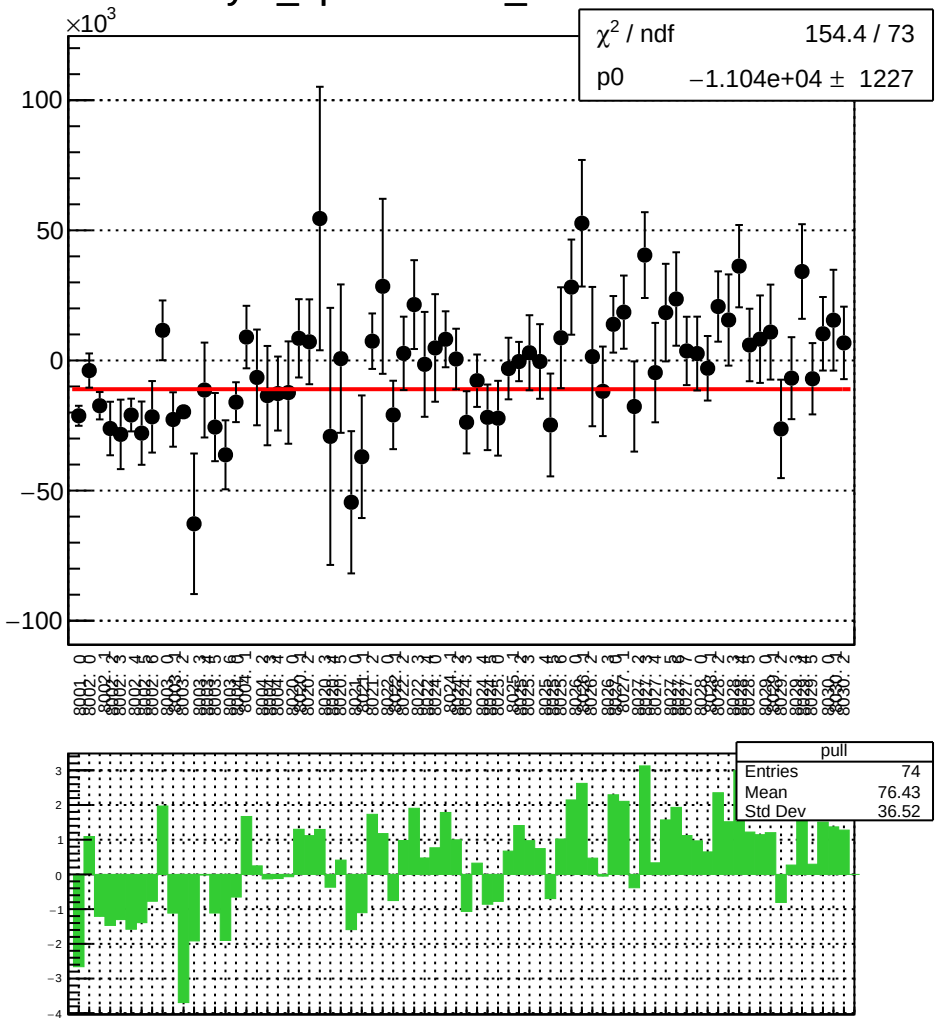

pull1D
Entries 74
Mean 0.3212
Std Dev 3.912
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

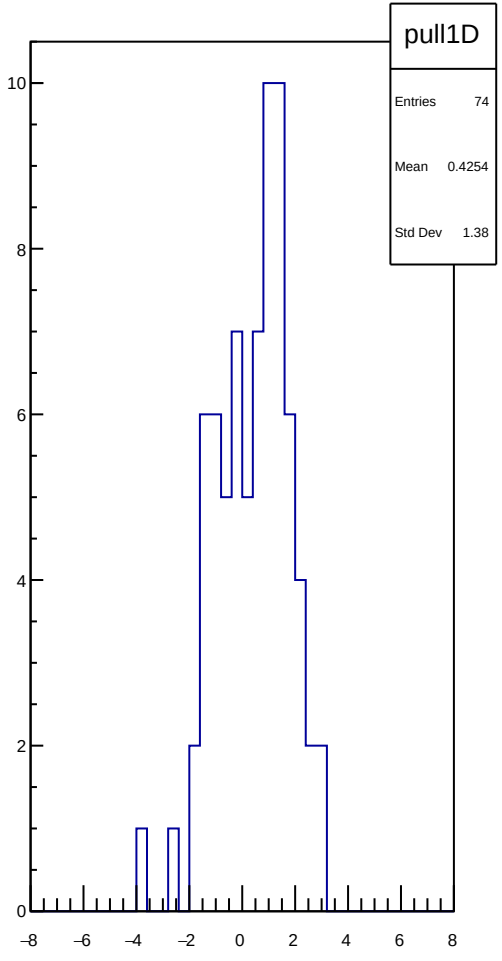

asym_bpm0l01WS_rms vs run
χ² / ndf 8396 / 73
p0 224 ± 0.1868
300
280
260
240
220
200
180

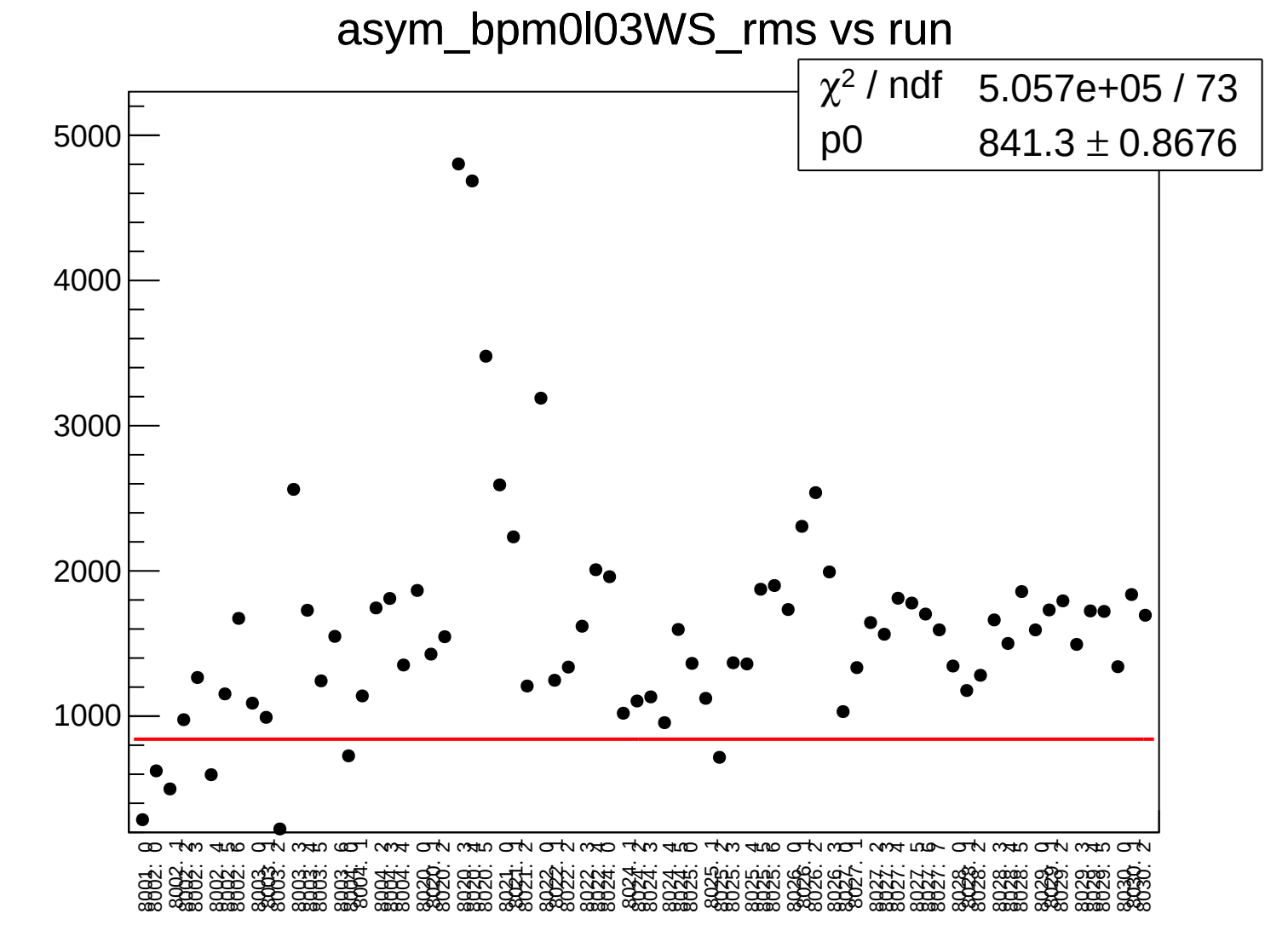

asym_bpm0l02WS_mean vs run
χ² / ndf 822.1 / 73
p0 −3911 ± 349.5
pull
Entries 74
Mean −1618
Std Dev 1652

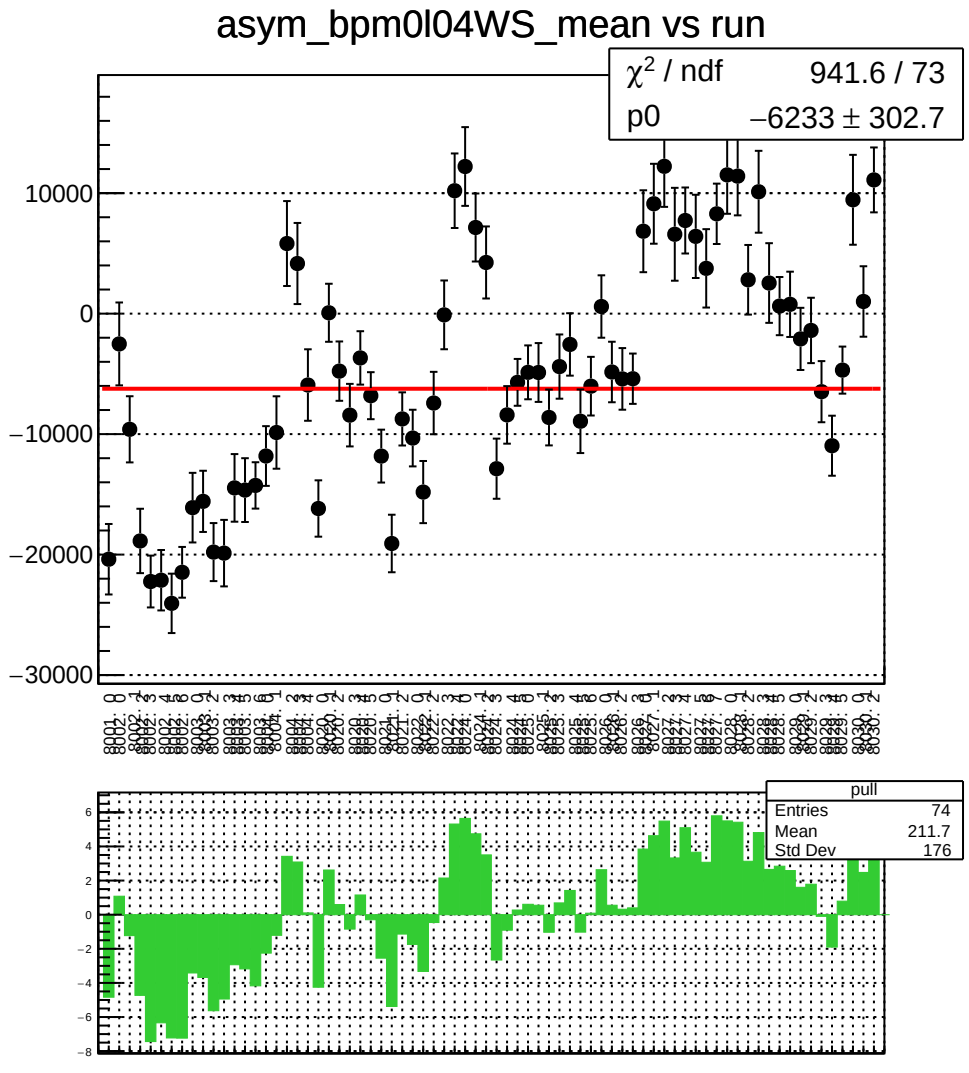

pull1D
Entries 74
Mean −0.02823
Std Dev 3.333

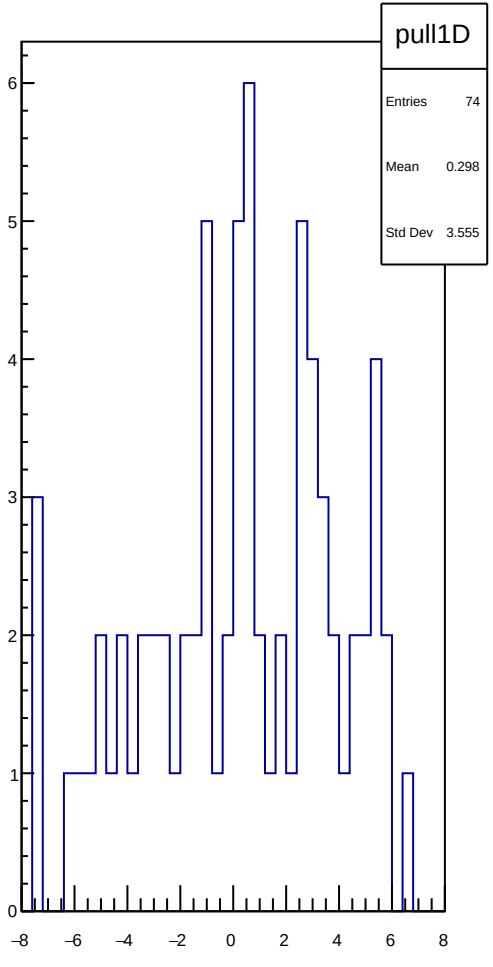

asym_bpm0l02WS_rms vs run
χ² / ndf 4899 / 73
p0 296.7 ± 0.2471
340
320
300
280
260

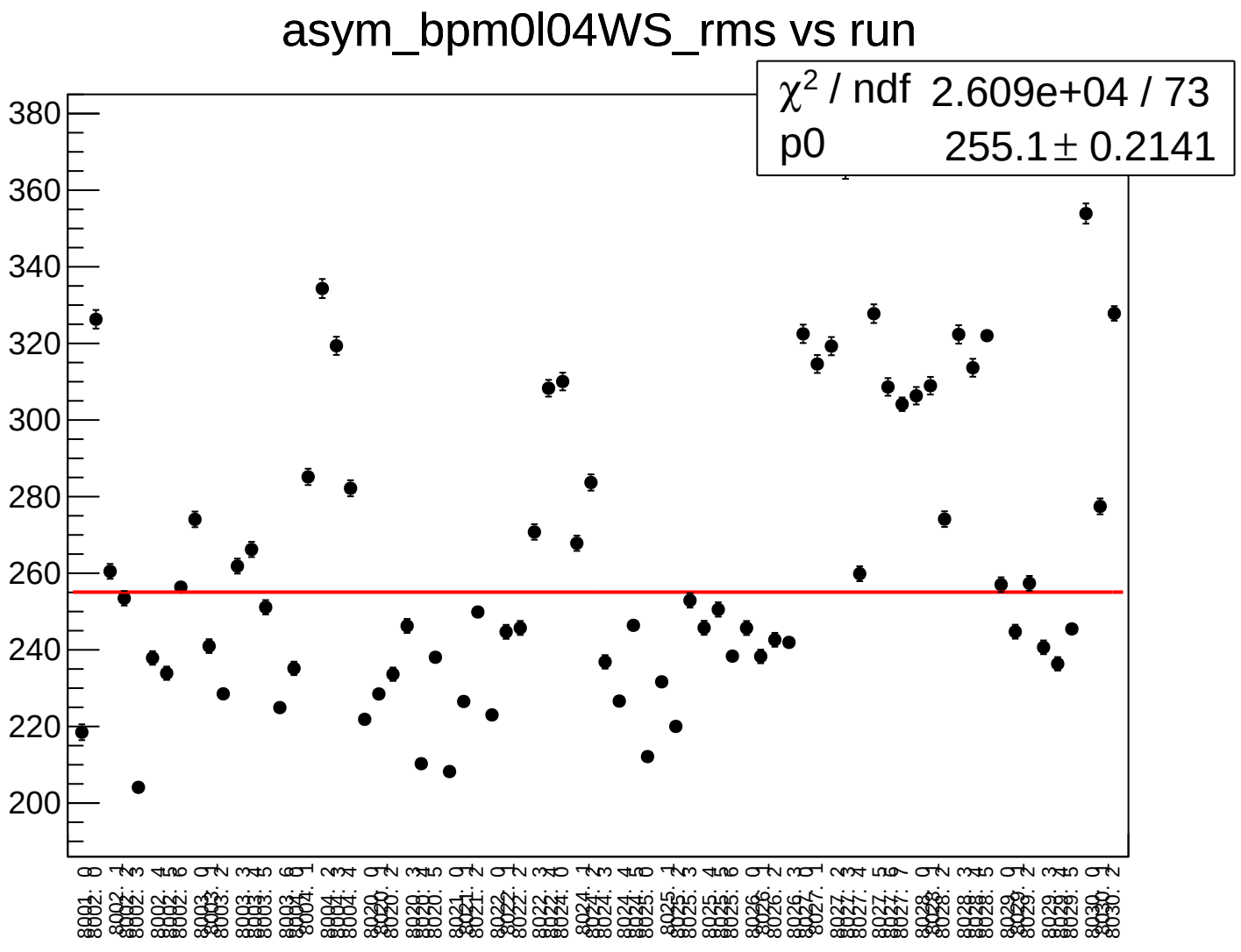

asym_bpm0l03WS_mean vs run
×10^3
χ² / ndf 154.4 / 73
p0 −1.104e+04 ± 1227
100
50
0
−50
−100
pull
Entries 74
Mean 76.43
Std Dev 36.52
3
2
1
0
−1
−2
−3
−4

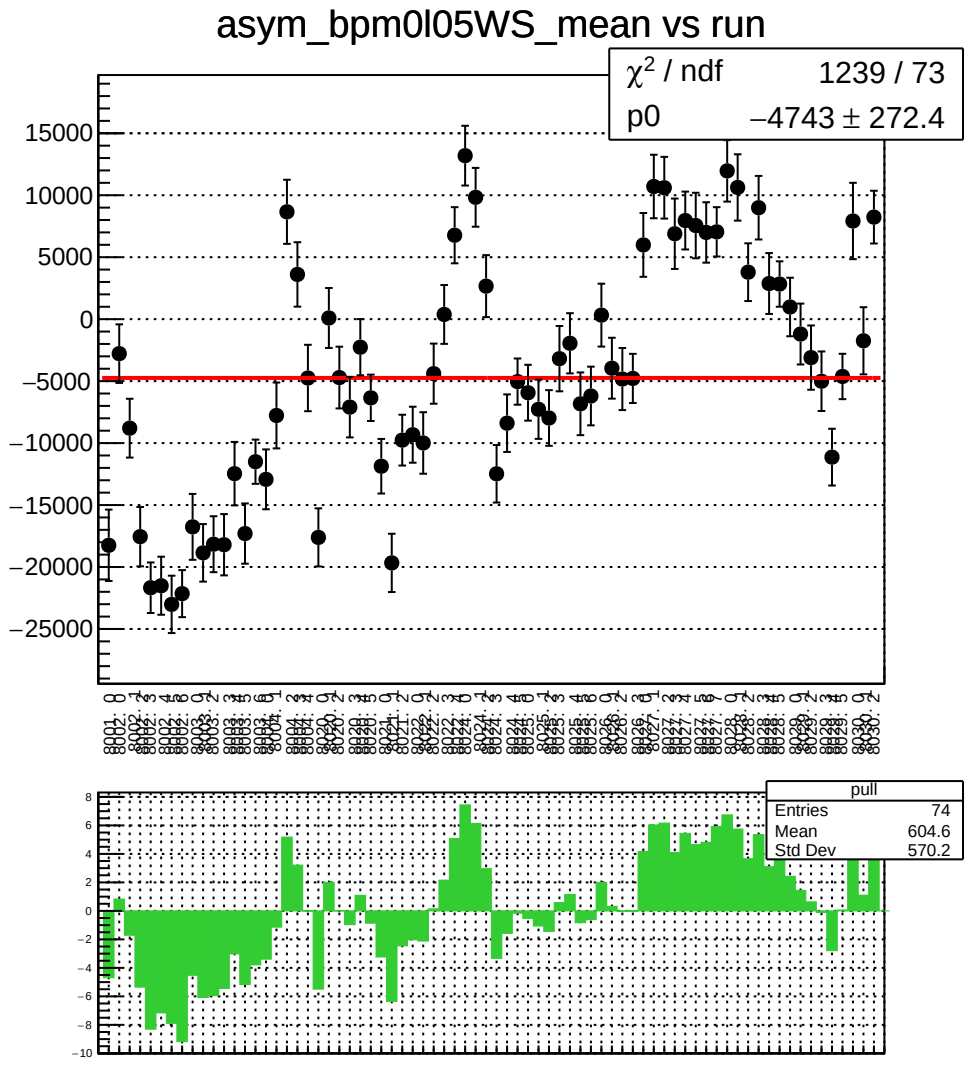

pull1D
Entries 74
Mean 0.4254
Std Dev 1.38
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

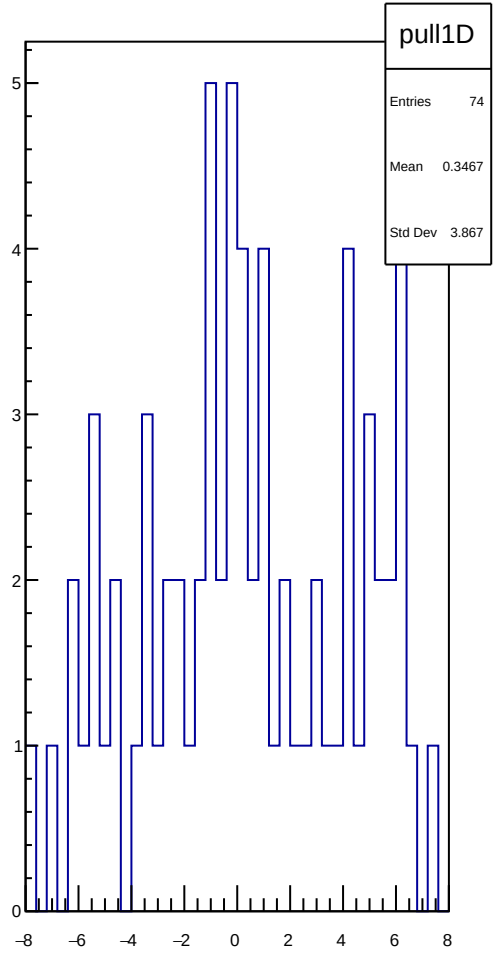

asym_bpm0l03WS_rms vs run
χ^2 / ndf 5.057e+05 / 73
p0 841.3 ± 0.8676
5000
4000
3000
2000
1000

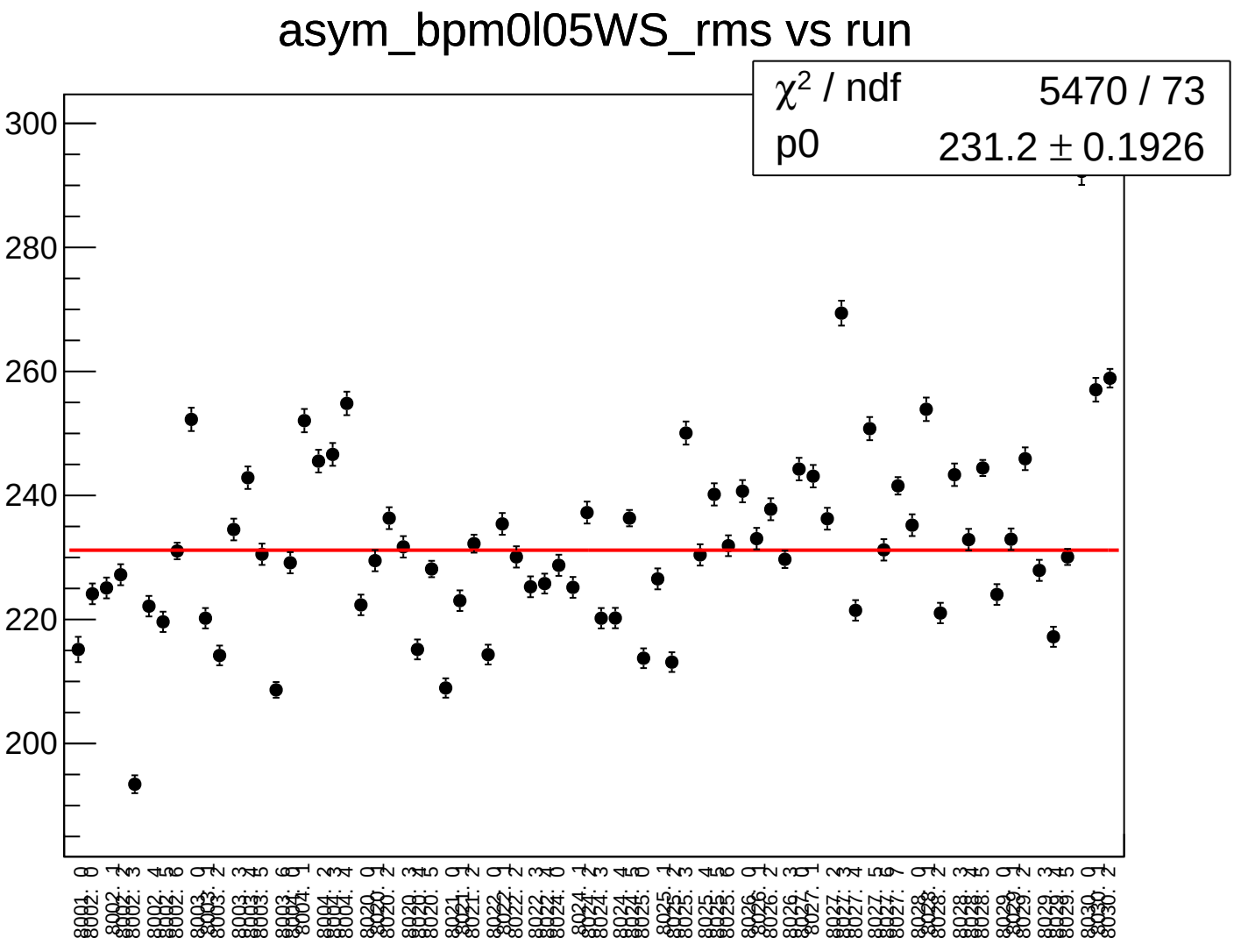

asym_bpm0l04WS_mean vs run
χ² / ndf 941.6 / 73
p0 −6233 ± 302.7
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 211.7
Std Dev 176
6
4
2
0
−2
−4
−6
−8

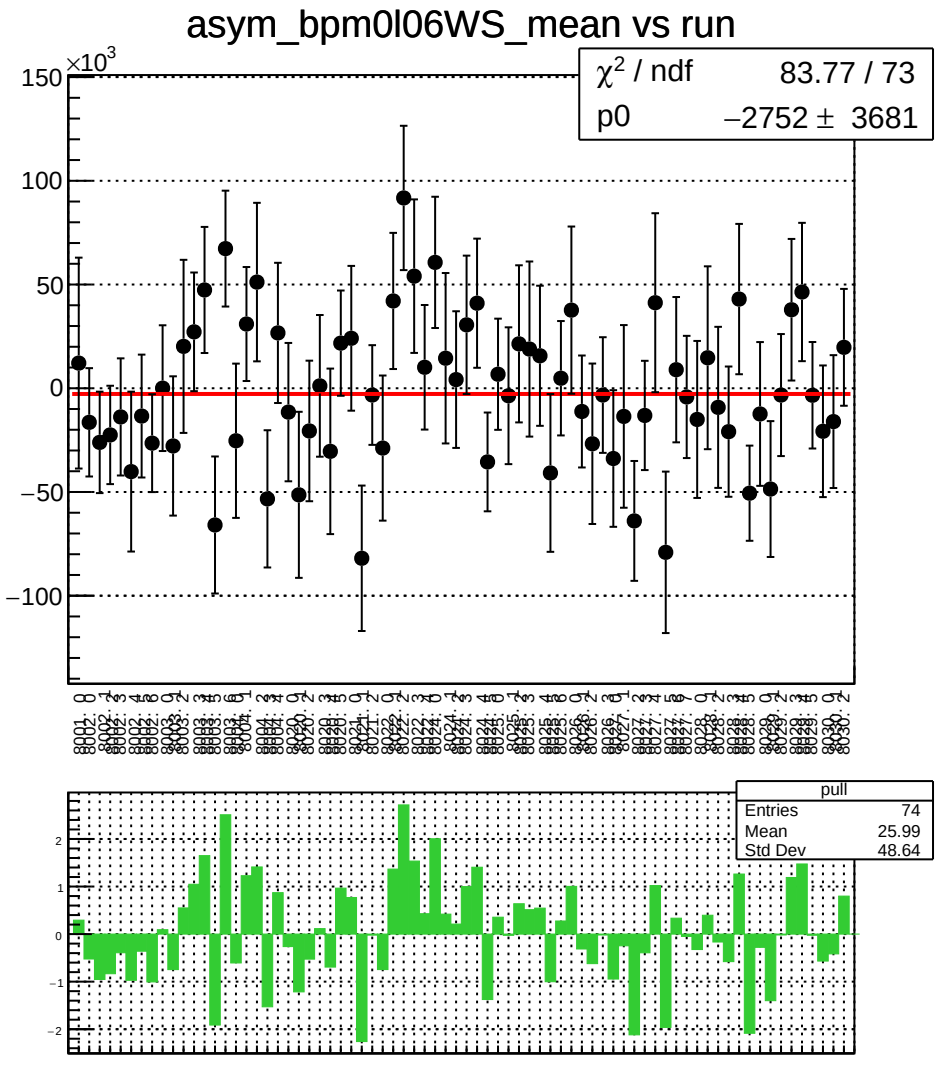

pull1D
Entries 74
Mean 0.298
Std Dev 3.555
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

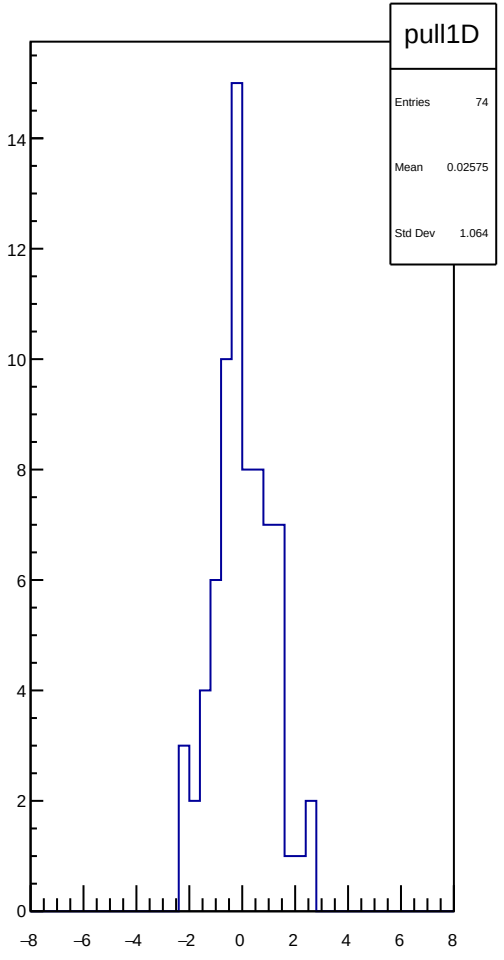

asym_bpm0l04WS_rms vs run
χ² / ndf 2.609e+04 / 73
p0 255.1 ± 0.2141
380
360
340
320
300
280
260
240
220
200

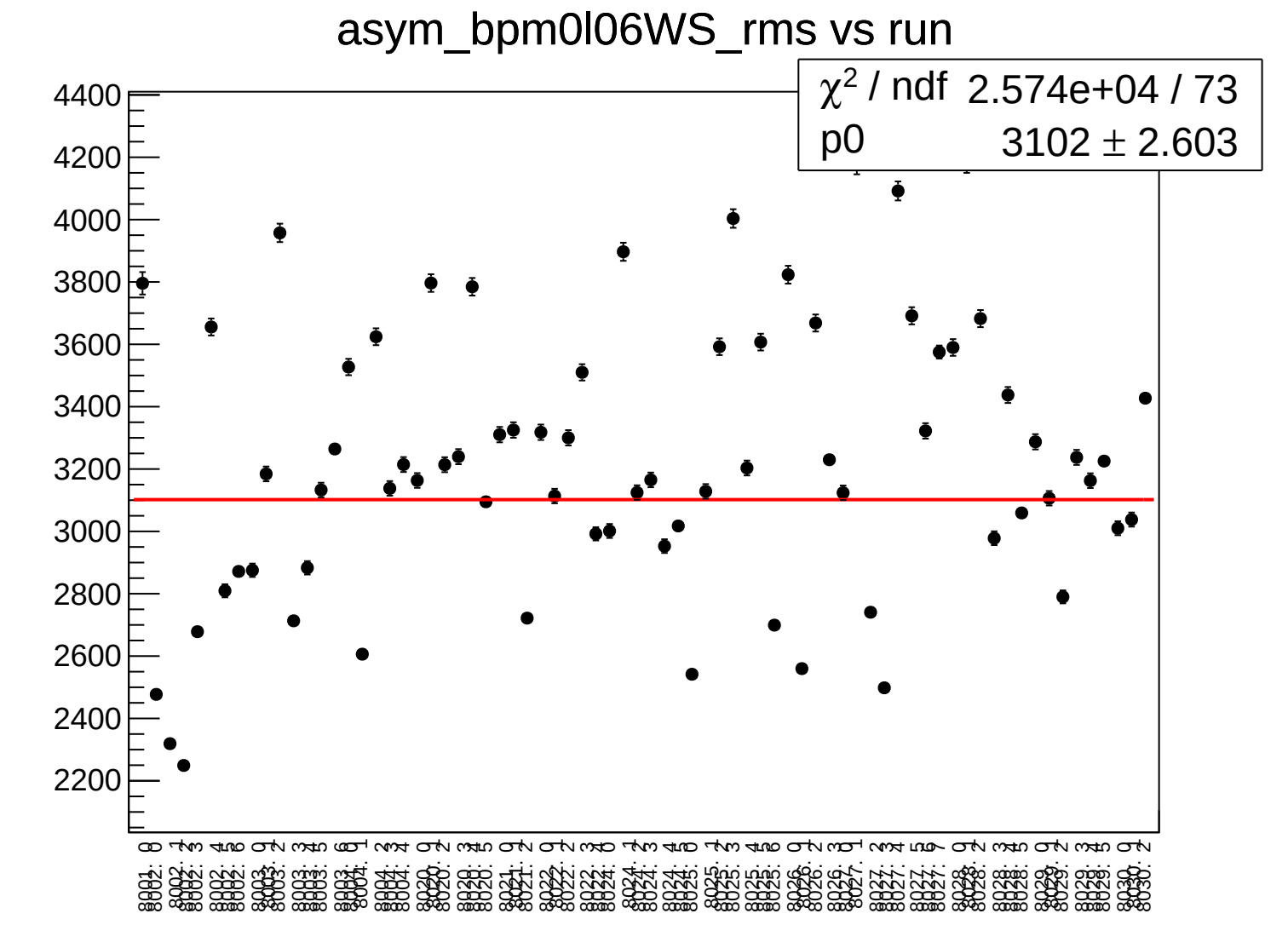

asym_bpm0l05WS_mean vs run
χ² / ndf 1239 / 73
p0 −4743 ± 272.4
pull
Entries 74
Mean 604.6
Std Dev 570.2

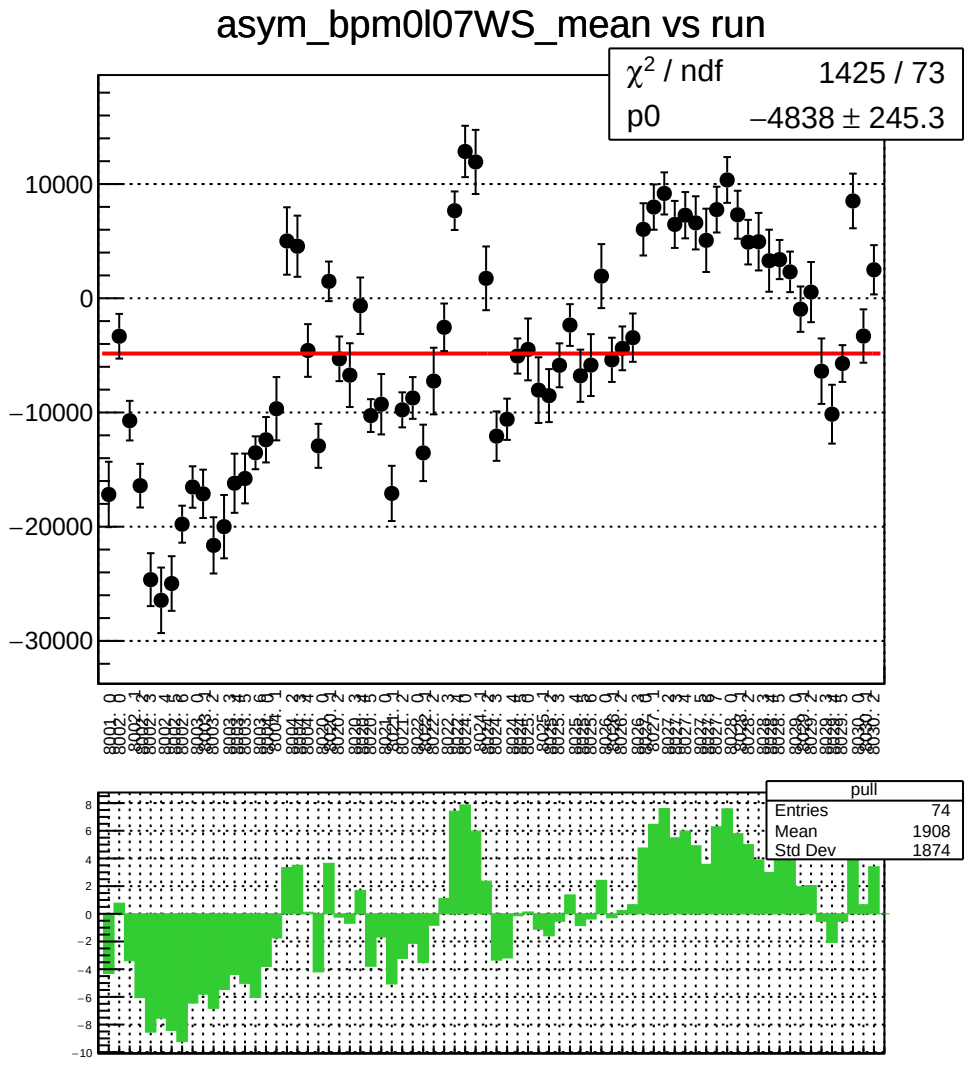

pull1D
Entries 74
Mean 0.3467
Std Dev 3.867

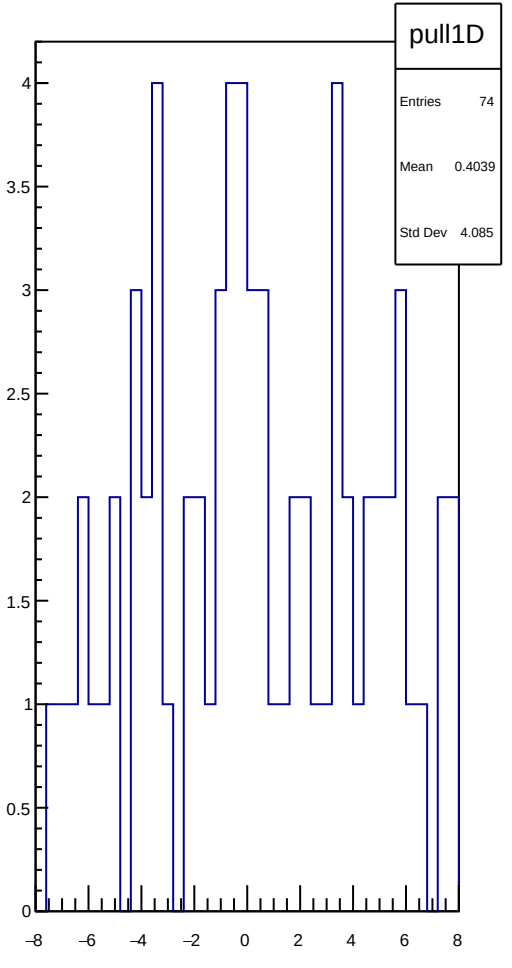

asym_bpm0l05WS_rms vs run
χ² / ndf 5470 / 73
p0 231.2 ± 0.1926
300
280
260
240
220
200

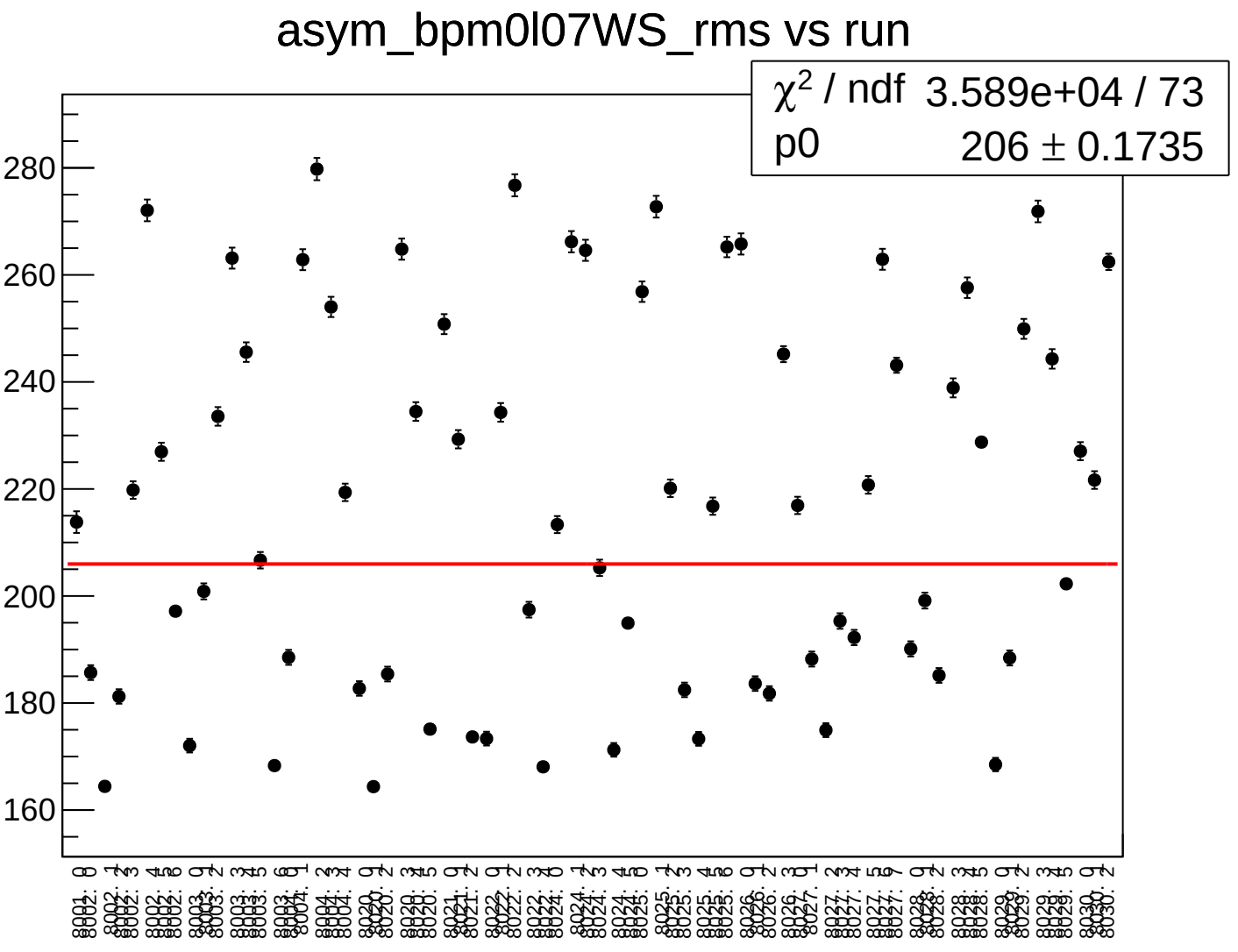

asym_bpm0l06WS_mean vs run
×10^3
150
100
50
0
−50
−100
χ² / ndf 83.77 / 73
p0 −2752 ± 3681
pull
Entries 74
Mean 25.99
Std Dev 48.64
2
1
0
−1
−2

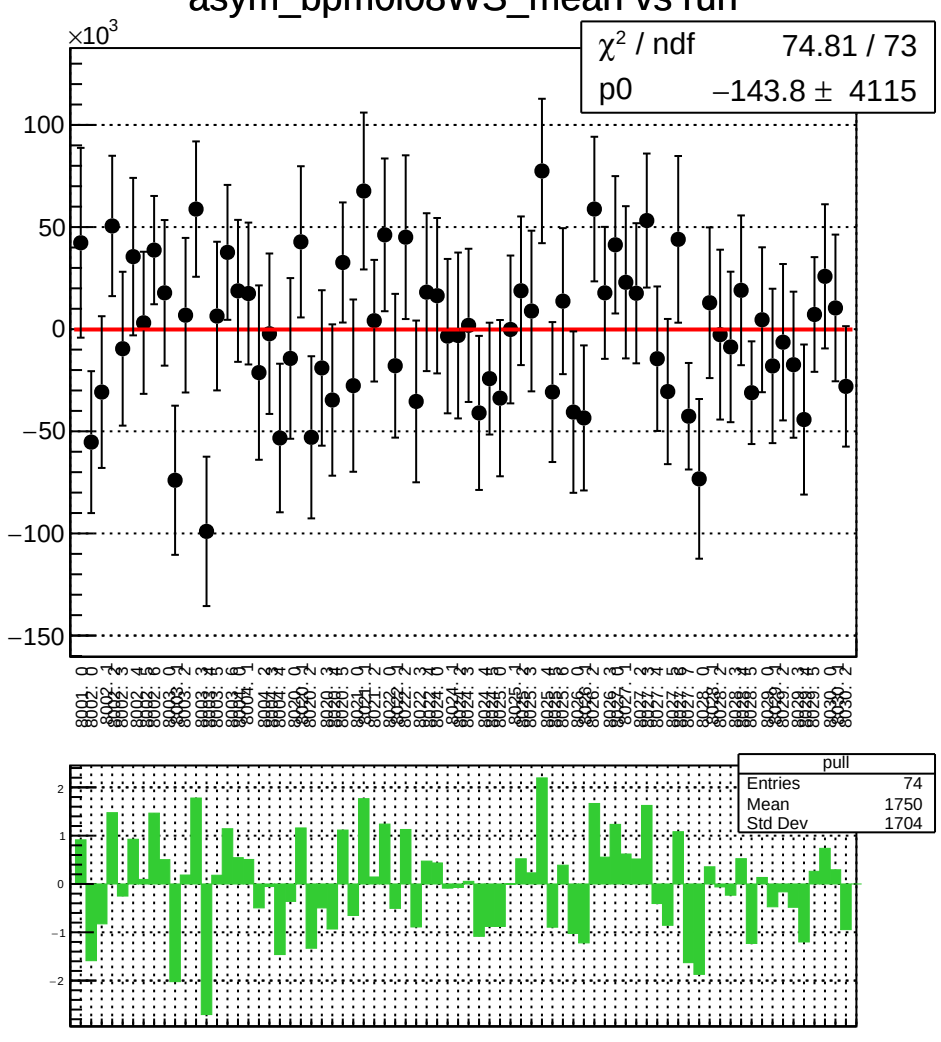

pull1D
Entries 74
Mean 0.02575
Std Dev 1.064
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

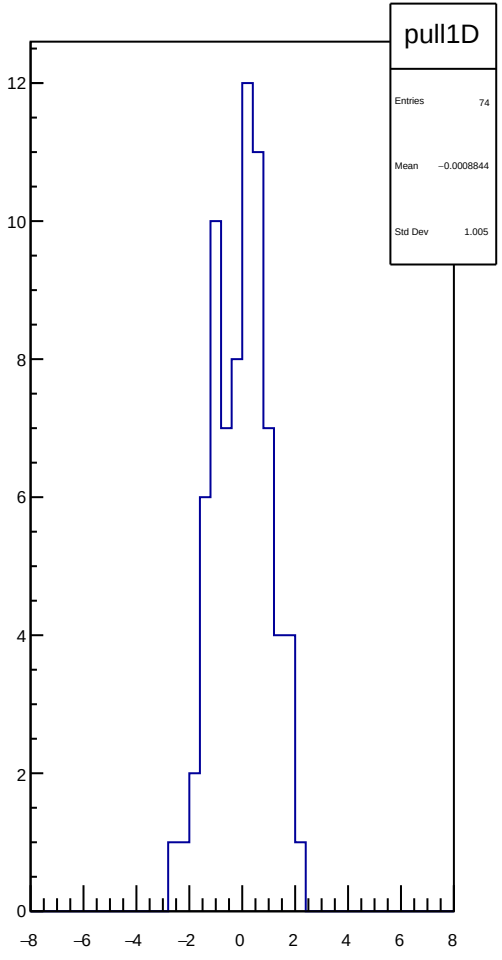

asym_bpm0l06WS_rms vs run
χ² / ndf 2.574e+04 / 73
p0 3102 ± 2.603
4400
4200
4000
3800
3600
3400
3200
3000
2800
2600
2400
2200

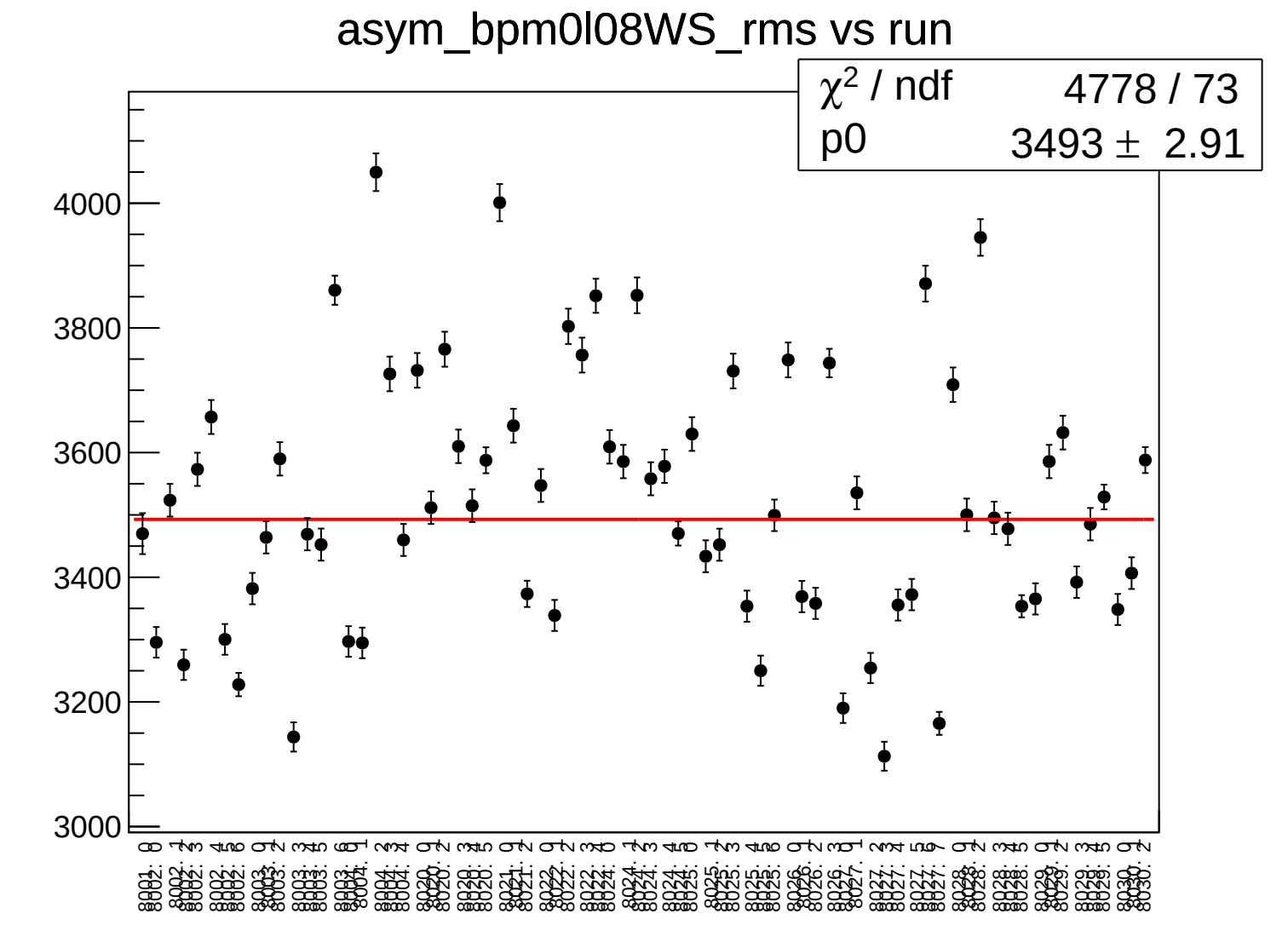

asym_bpm0l07WS_mean vs run
χ² / ndf 1425 / 73
p0 −4838 ± 245.3
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 1908
Std Dev 1874
8
6
4
2
0
−2
−4
−6
−8
−10

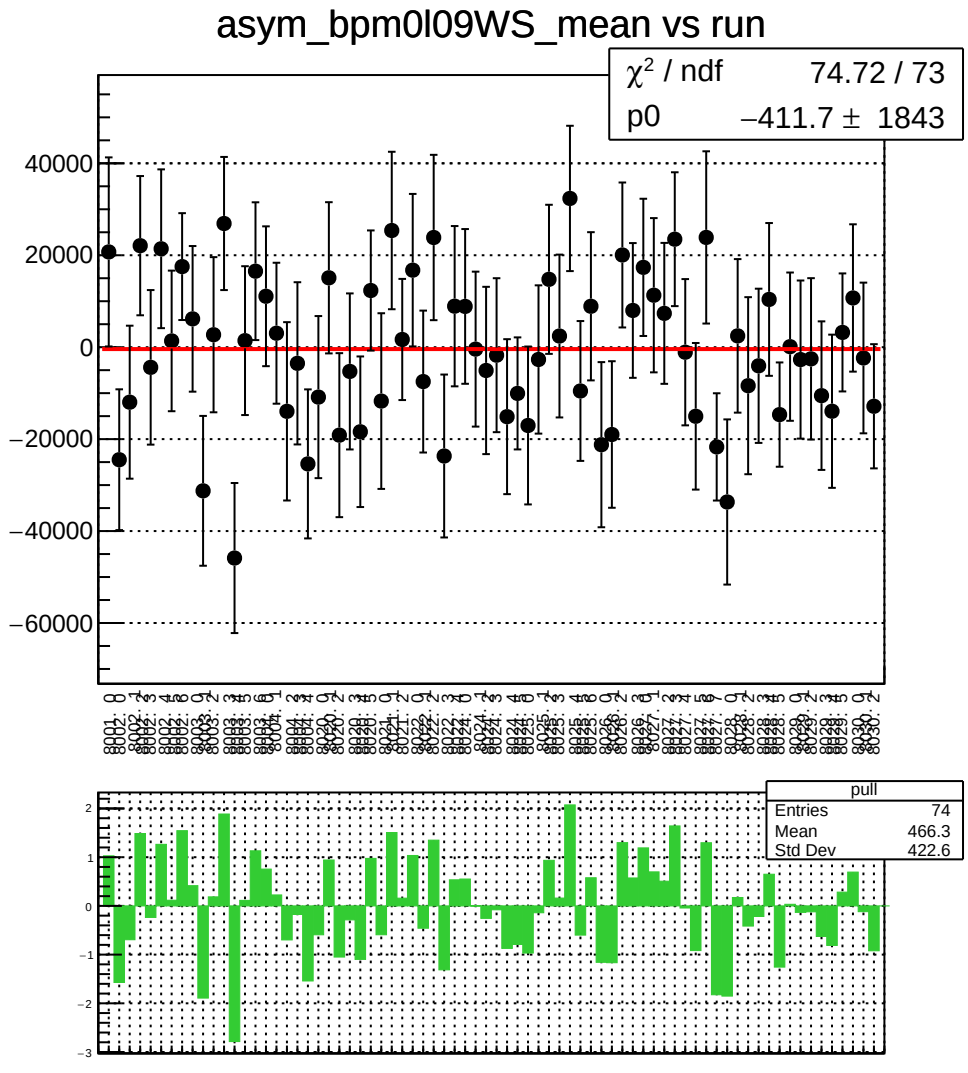

pull1D
Entries 74
Mean 0.4039
Std Dev 4.085
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

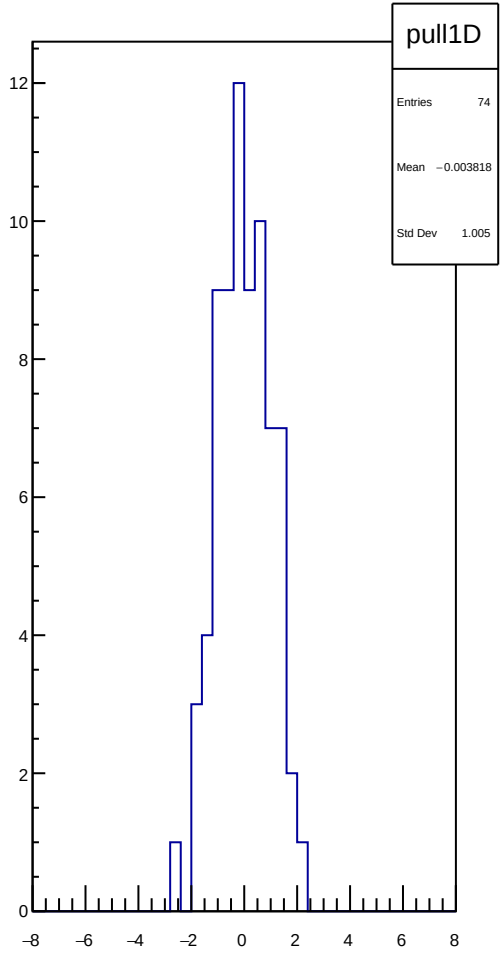

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3.589e+04 / 73
p0 206 ± 0.1735
280
260
240
220
200
180
160

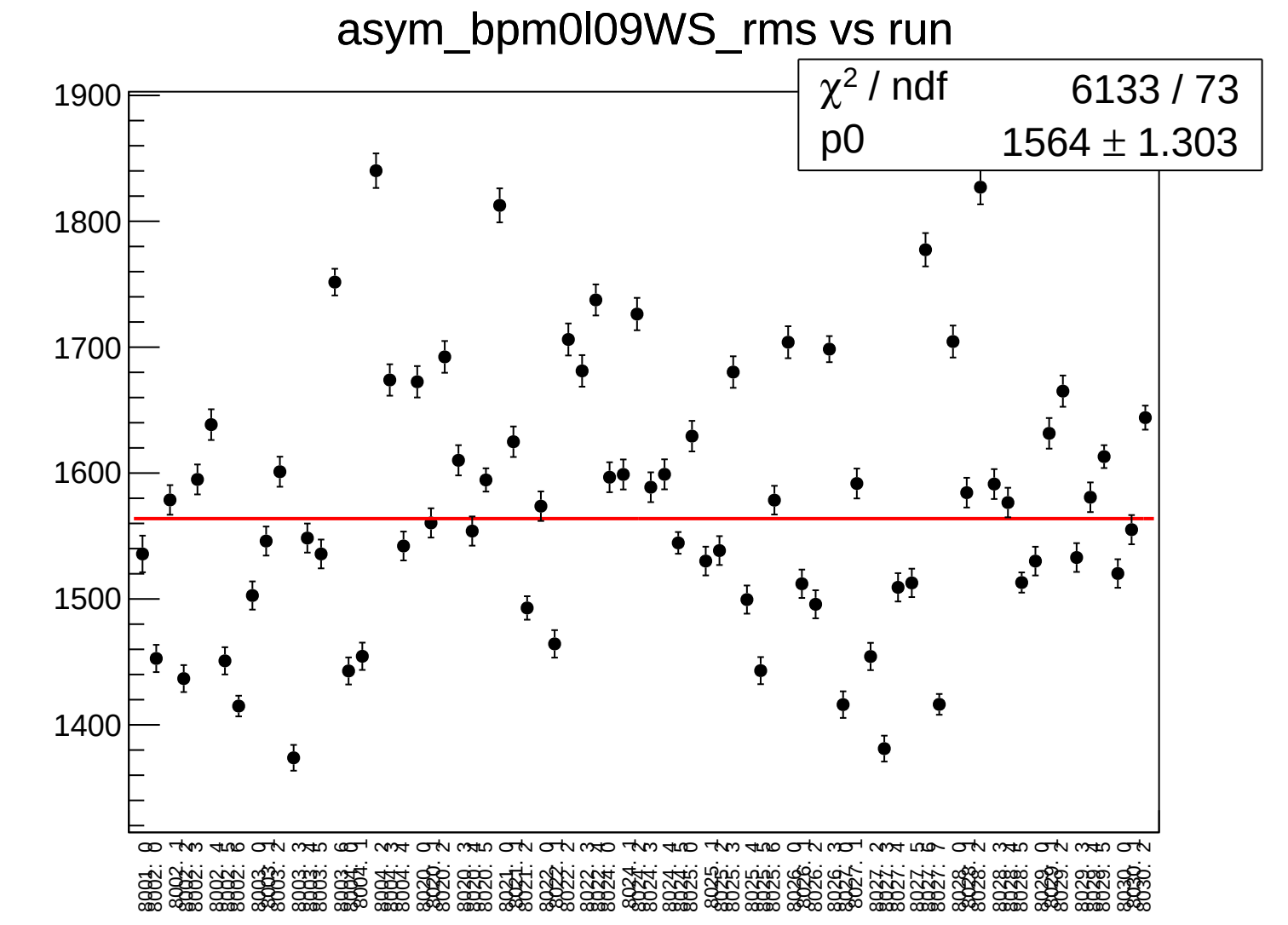

asym_bpm0l08WS_mean vs run
×10^3
χ² / ndf 74.81 / 73
p0 −143.8 ± 4115
100
50
0
−50
−100
−150
pull
Entries 74
Mean 1750
Std Dev 1704
2
1
0
−1
−2

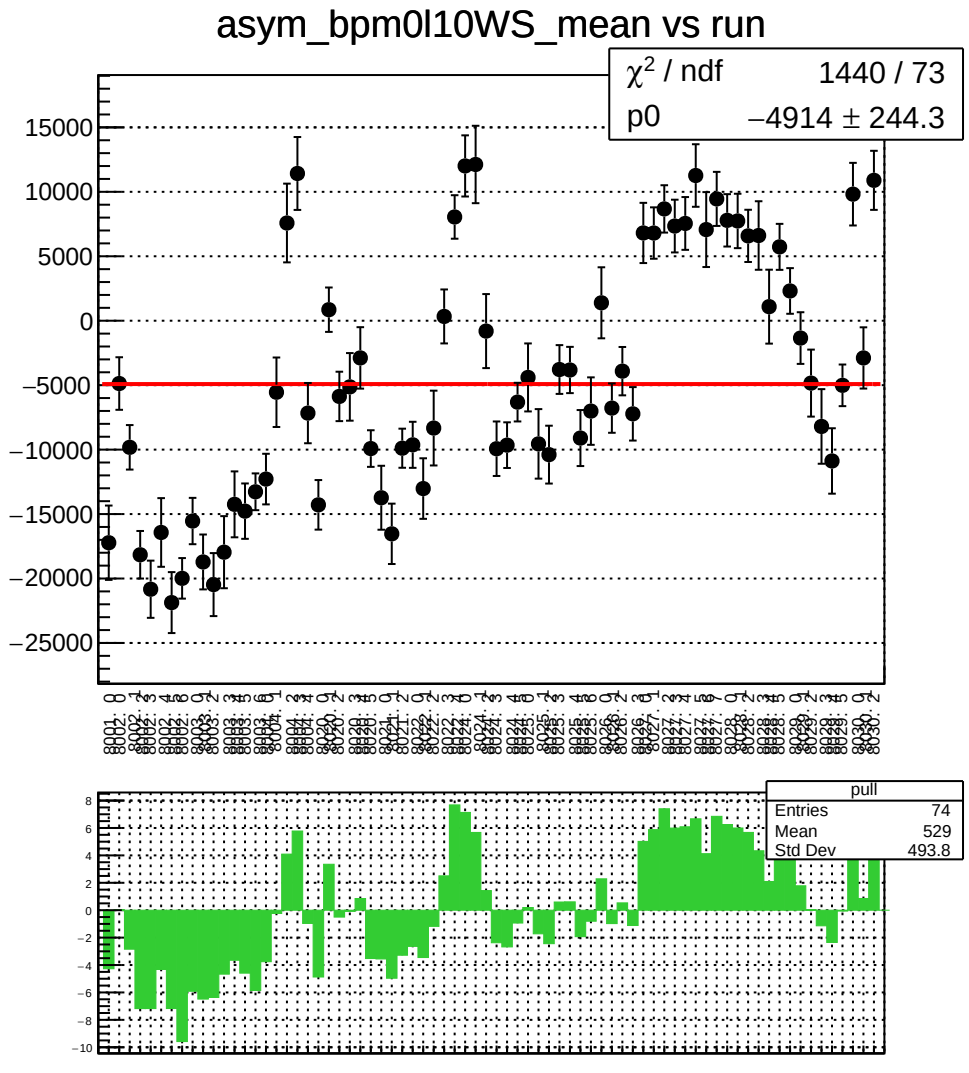

pull1D
Entries 74
Mean −0.0008844
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

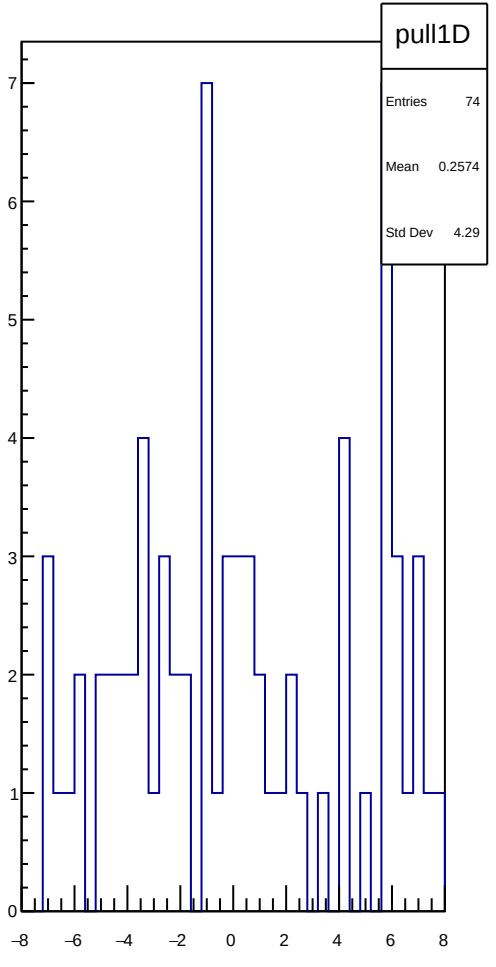

asym_bpm0l08WS_rms vs run
χ² / ndf 4778 / 73
p0 3493 ± 2.91
4000
3800
3600
3400
3200
3000

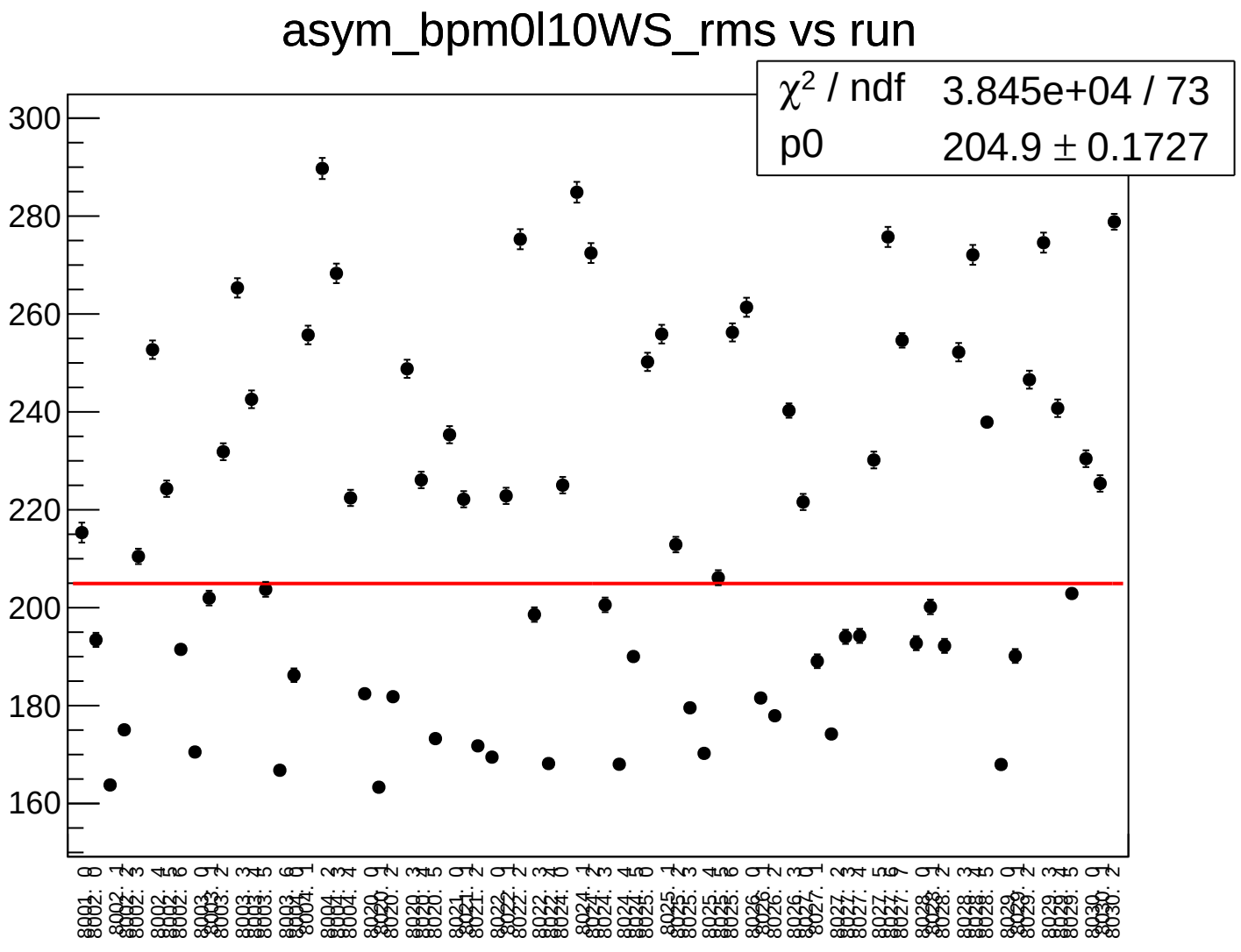

asym_bpm0l09WS_mean vs run
χ² / ndf 74.72 / 73
p0 −411.7 ± 1843
40000
20000
0
−20000
−40000
−60000
pull
Entries 74
Mean 466.3
Std Dev 422.6
2
1
0
−1
−2
−3

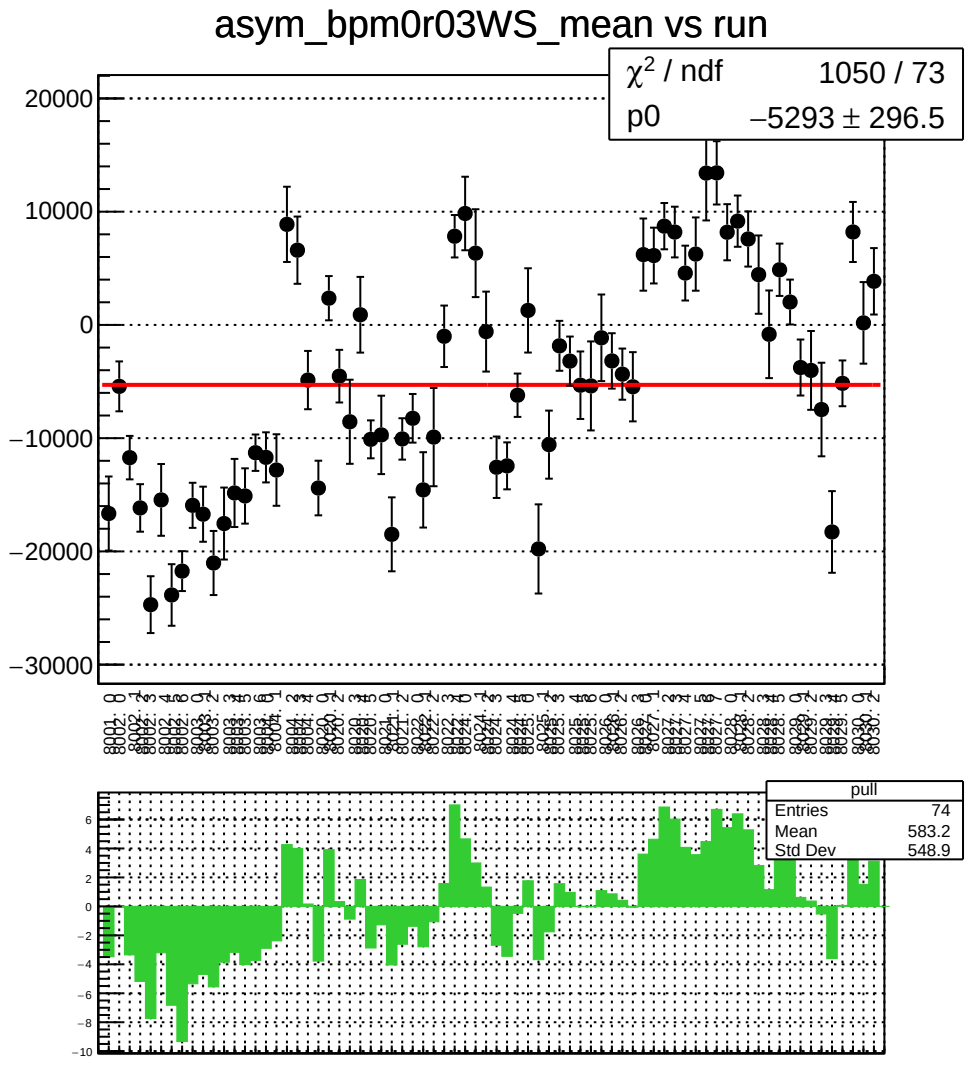

pull1D
Entries 74
Mean −0.003818
Std Dev 1.005
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

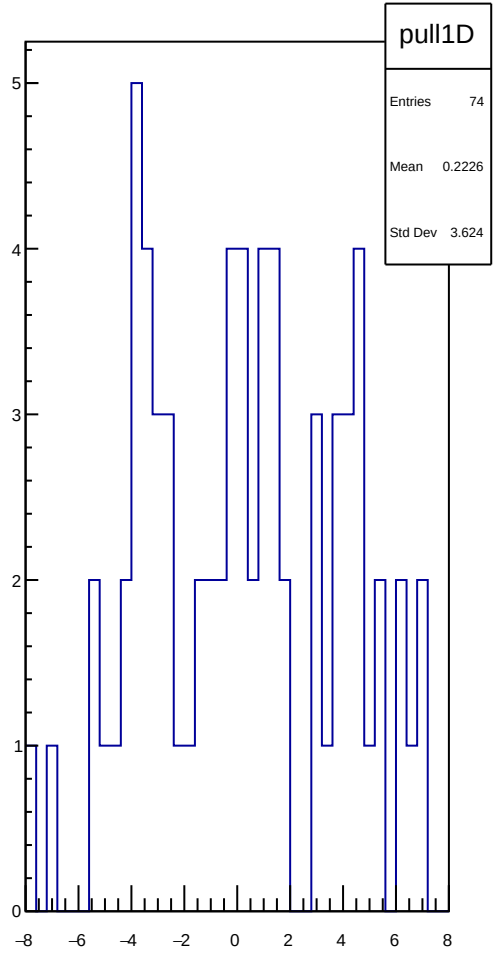

asym_bpm0l09WS_rms vs run
χ² / ndf 6133 / 73
p0 1564 ± 1.303
1900
1800
1700
1600
1500
1400

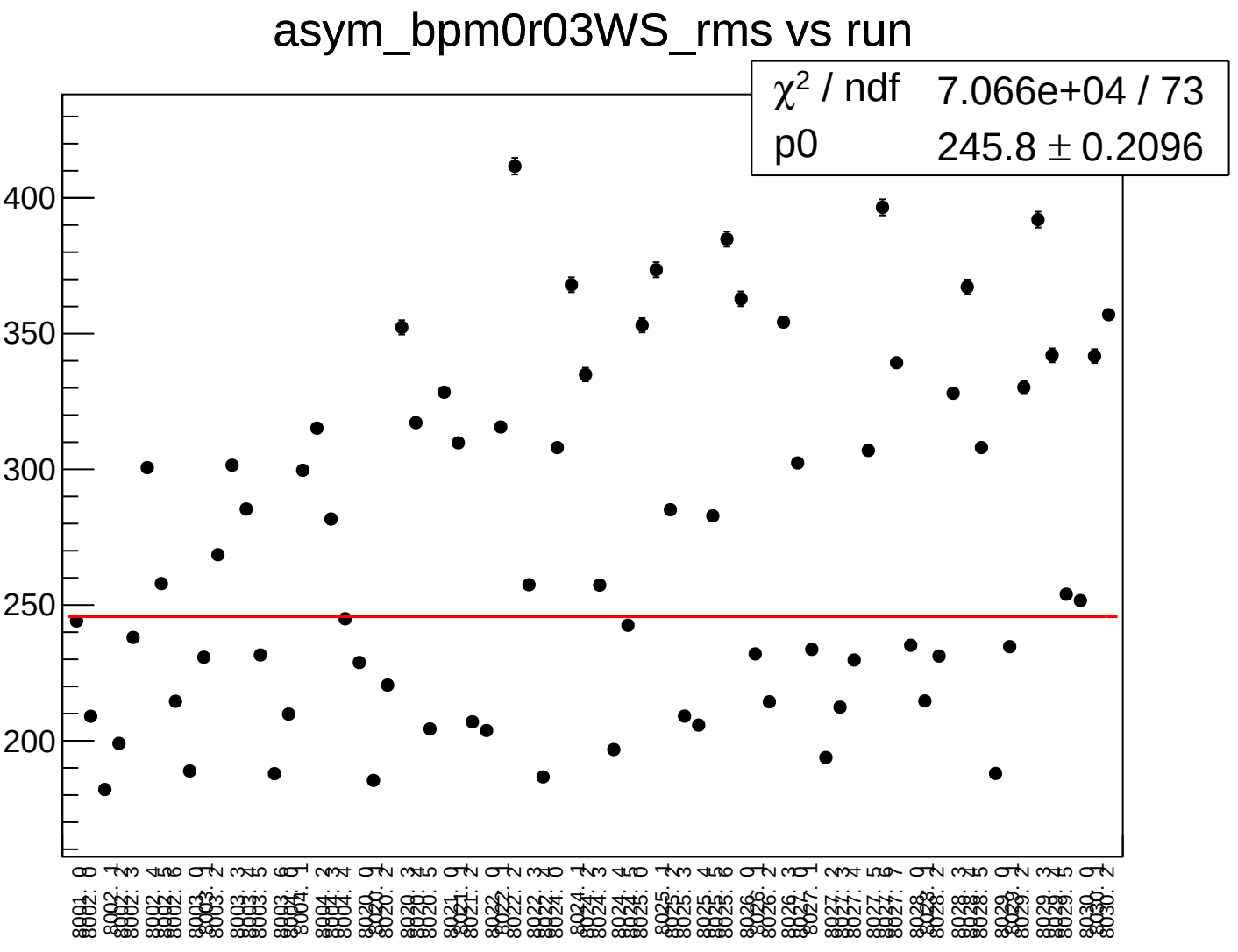

asym_bpm0l10WS_mean vs run
χ² / ndf 1440 / 73
p0 −4914 ± 244.3
pull
Entries 74
Mean 529
Std Dev 493.8

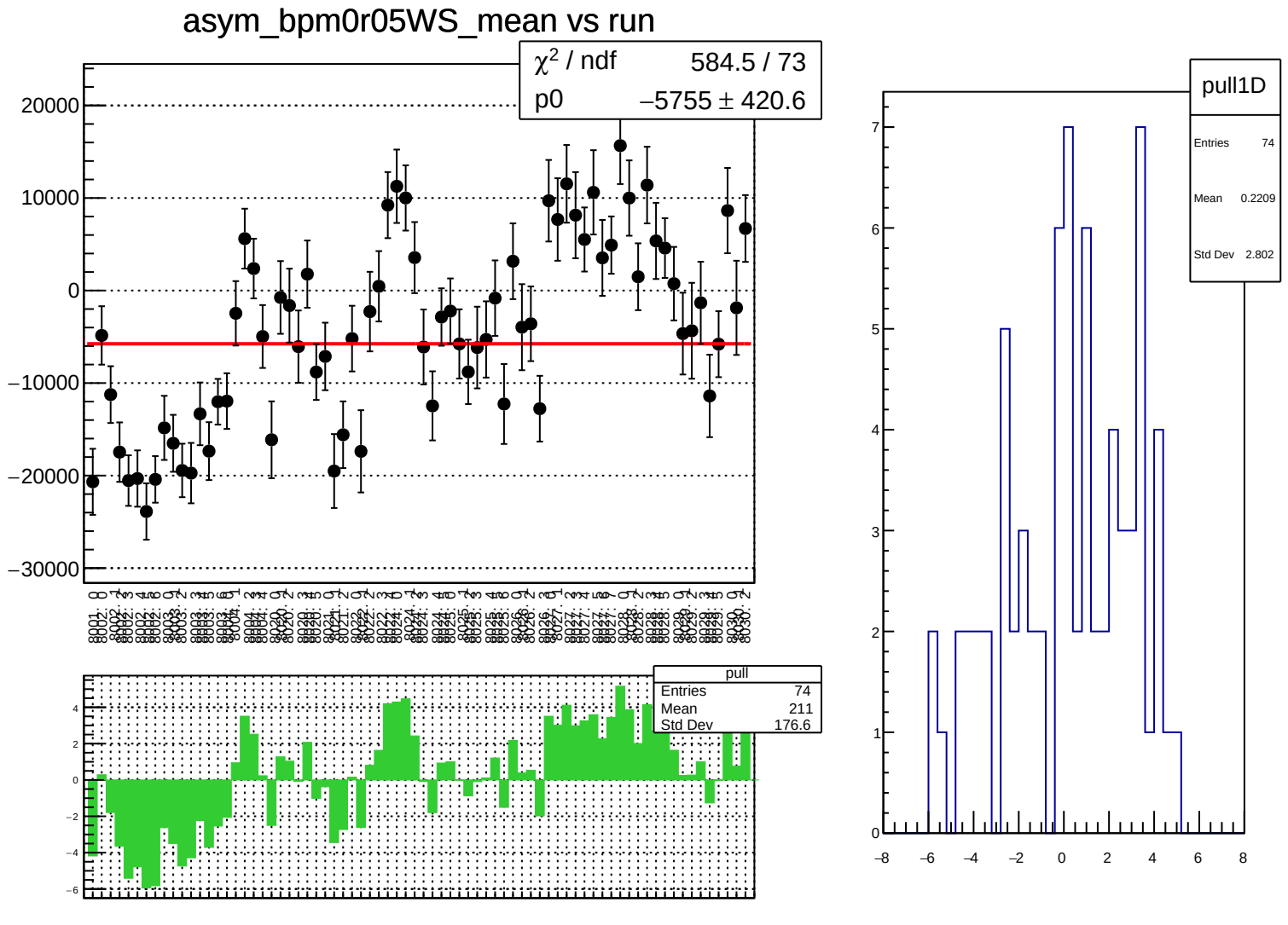

pull1D
Entries 74
Mean 0.2574
Std Dev 4.29

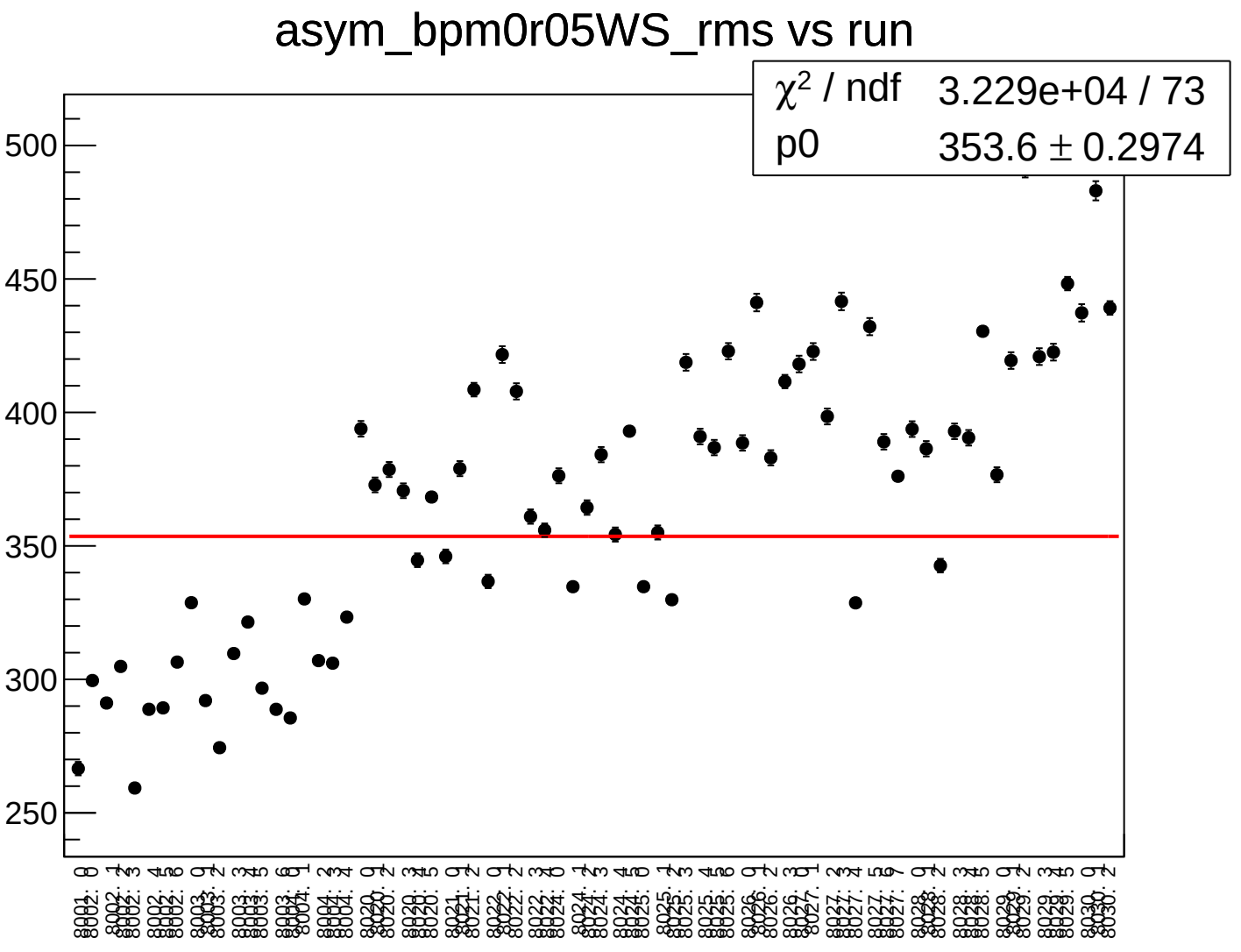

asym_bpm0l10WS_rms vs run
χ² / ndf 3.845e+04 / 73
p0 204.9 ± 0.1727
300
280
260
240
220
200
180
160

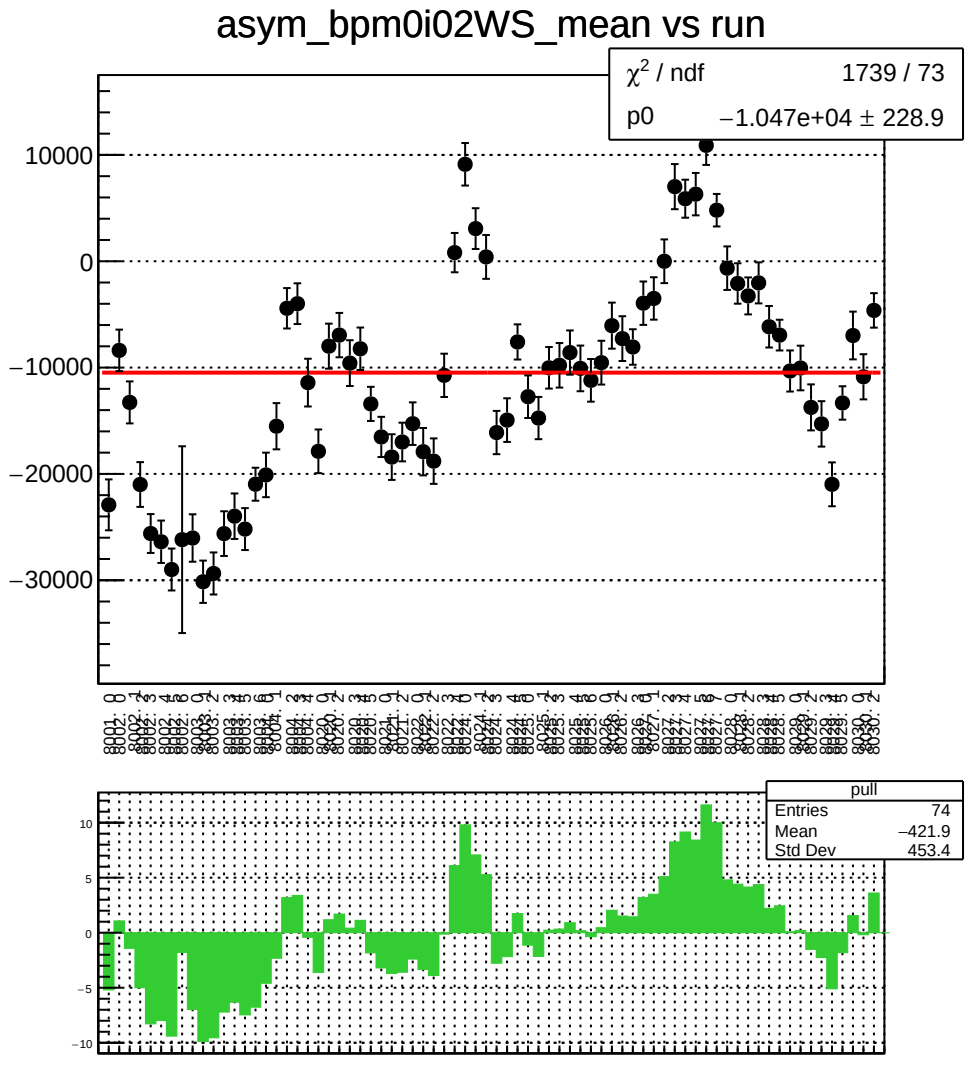

asym_bpm0r03WS_mean vs run
χ² / ndf 1050 / 73
p0 −5293 ± 296.5
pull
Entries 74
Mean 583.2
Std Dev 548.9

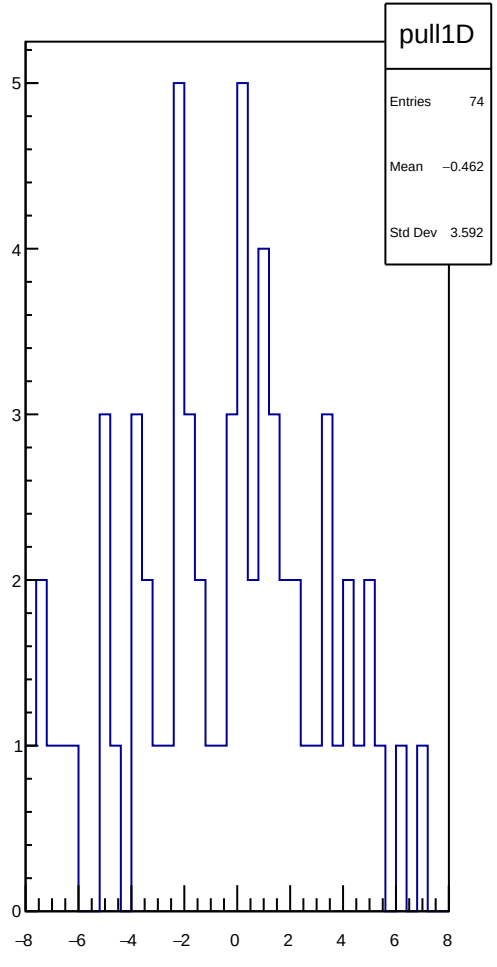

pull1D
Entries 74
Mean 0.2226
Std Dev 3.624

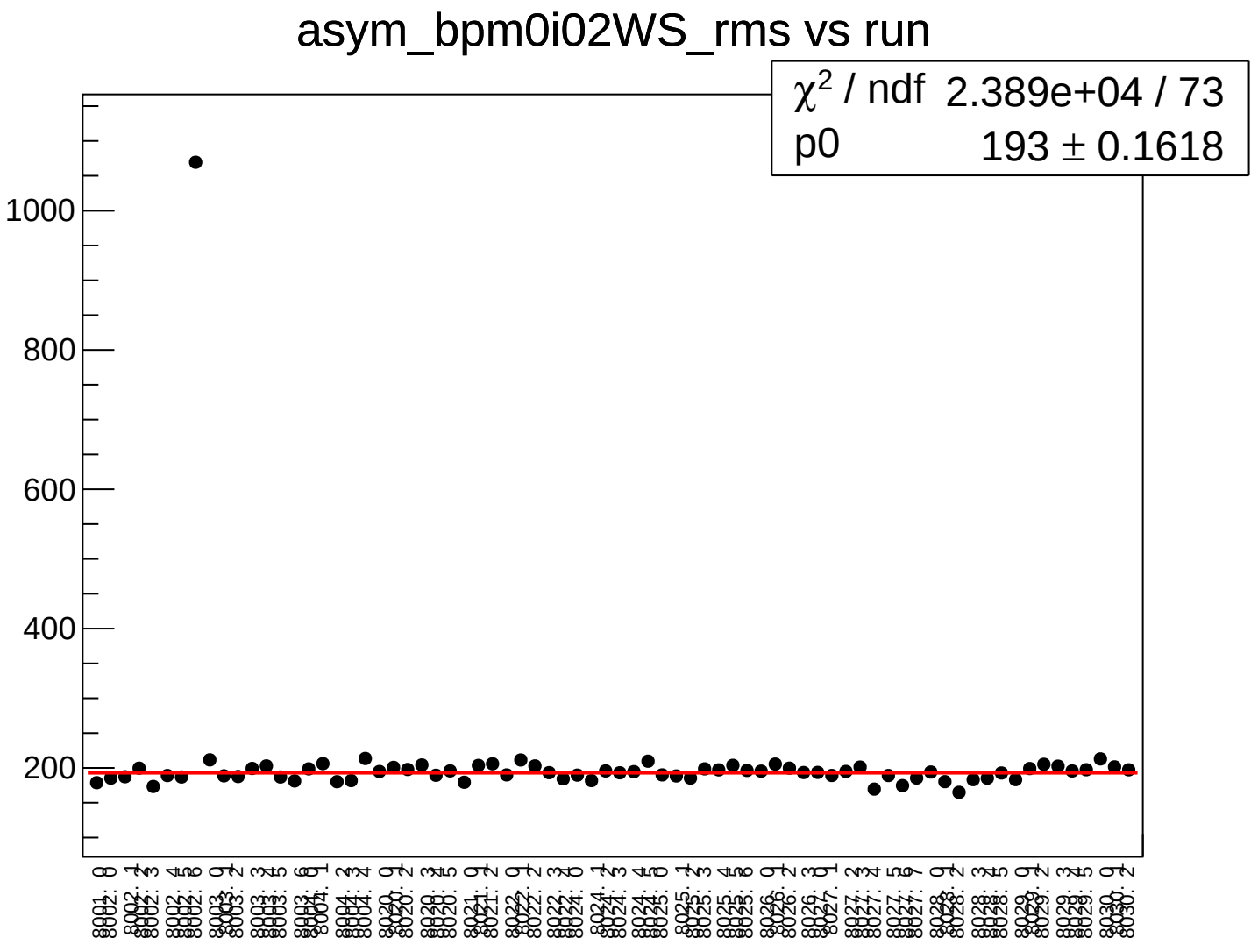

asym_bpm0r03WS_rms vs run
χ² / ndf 7.066e+04 / 73
p0 245.8 ± 0.2096
400
350
300
250
200

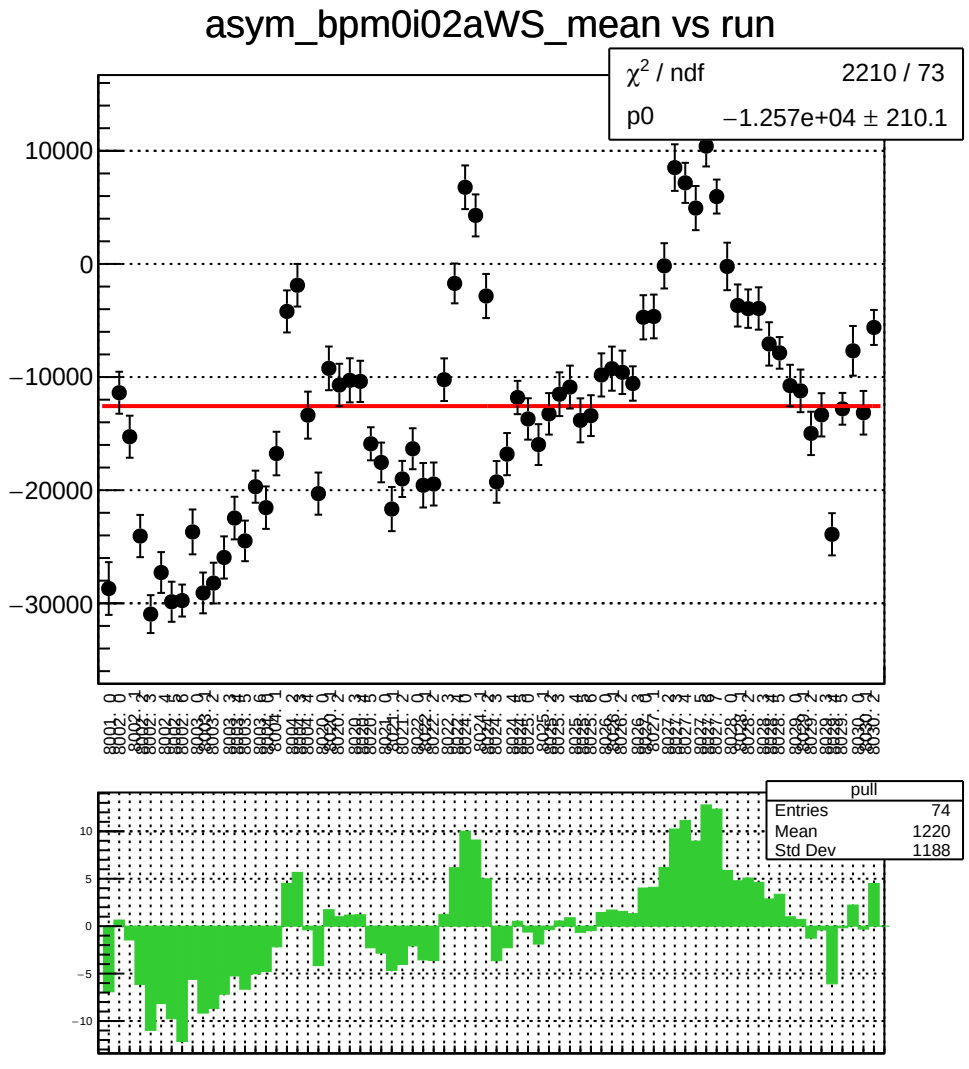

asym_bpm0r05WS_mean vs run
χ² / ndf 584.5 / 73
p0 −5755 ± 420.6
pull
Entries 74
Mean 211
Std Dev 176.6
pull1D
Entries 74
Mean 0.2209
Std Dev 2.802

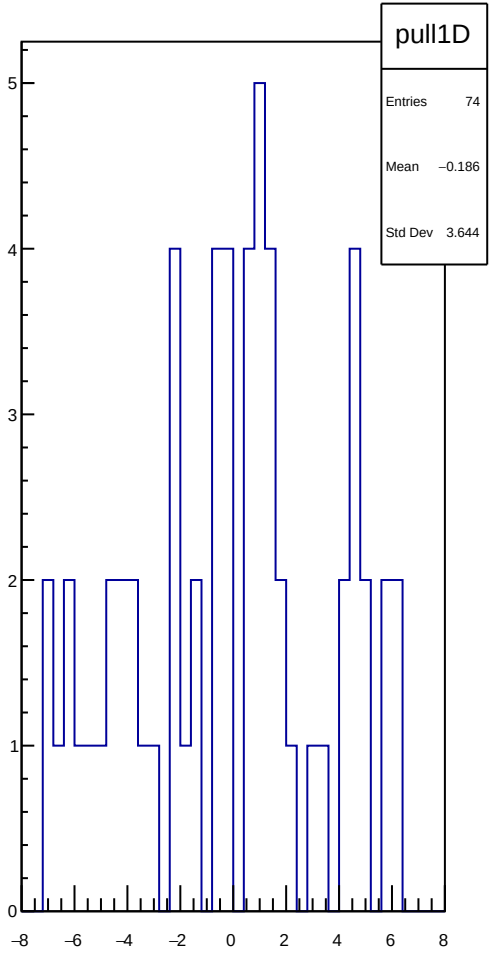

asym_bpm0r05WS_rms vs run
χ² / ndf 3.229e+04 / 73
p0 353.6 ± 0.2974
500
450
400
350
300
250

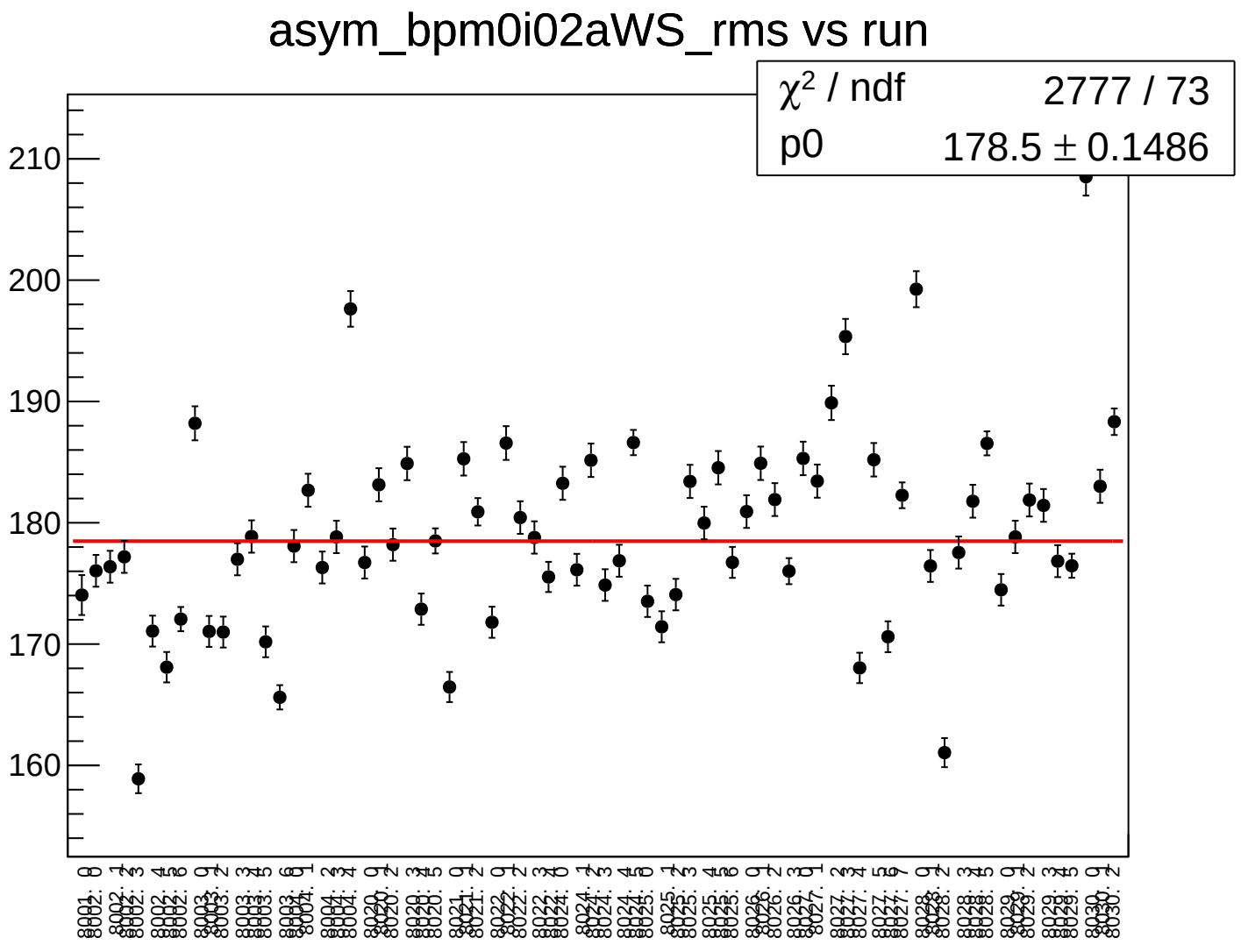

asym_bpm0i02WS_mean vs run
χ² / ndf 1739 / 73
p0 −1.047e+04 ± 228.9
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean −421.9
Std Dev 453.4
10
5
0
−5
−10

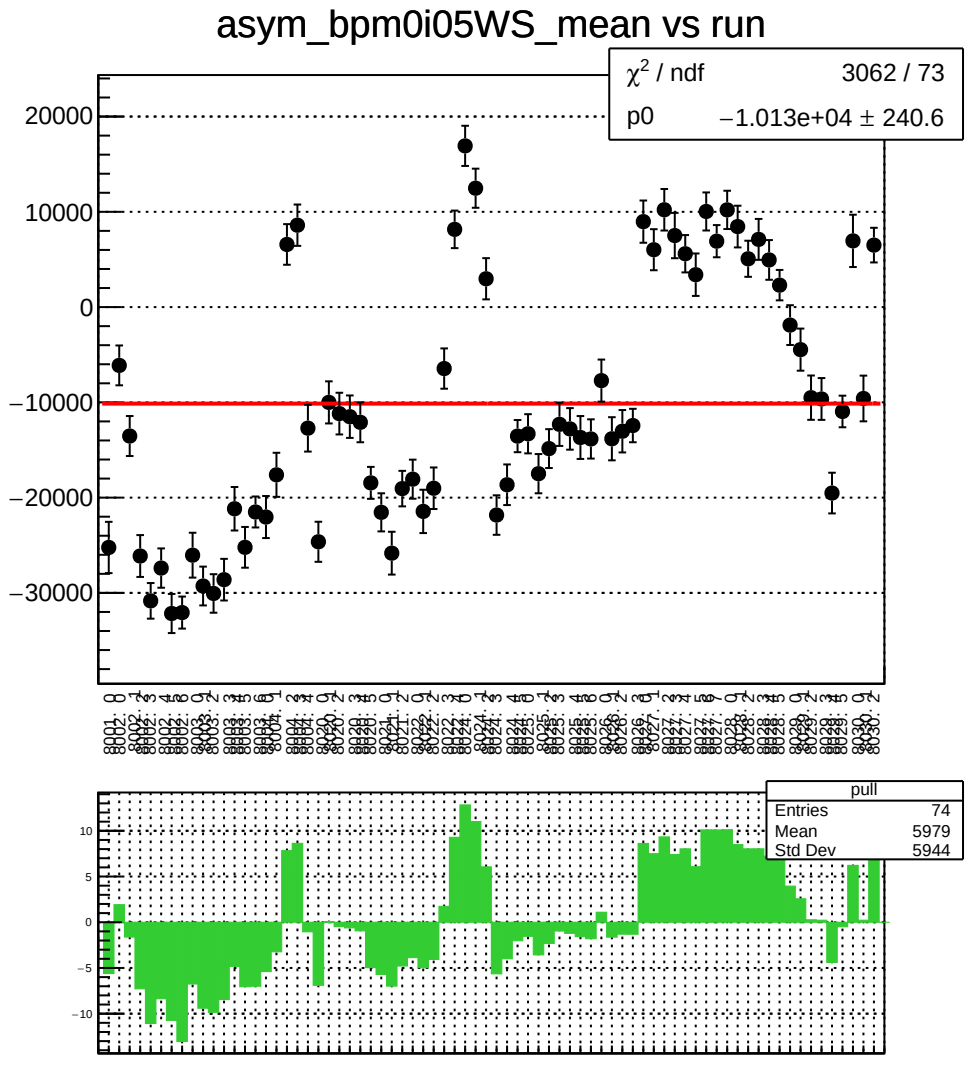

pull1D
Entries 74
Mean −0.462
Std Dev 3.592
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

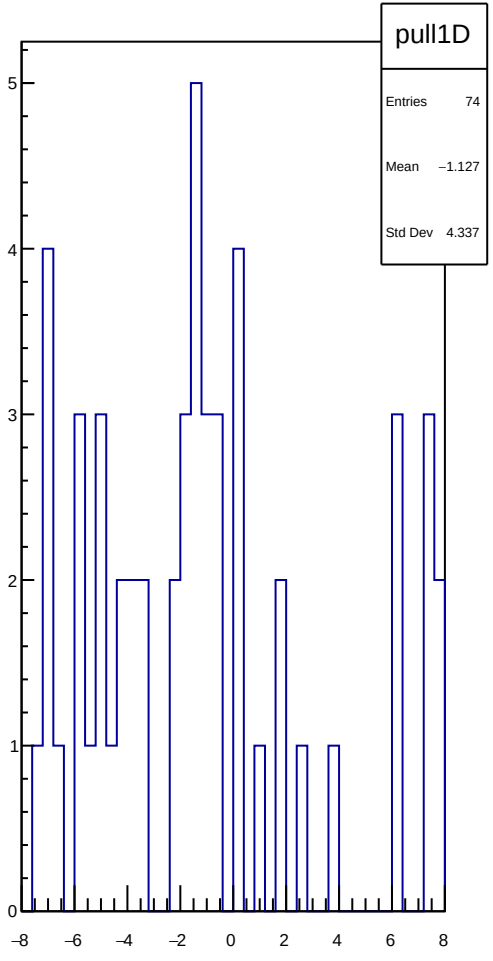

asym_bpm0i02WS_rms vs run
χ^2 / ndf 2.389e+04 / 73
p0 193 ± 0.1618
1000
800
600
400
200

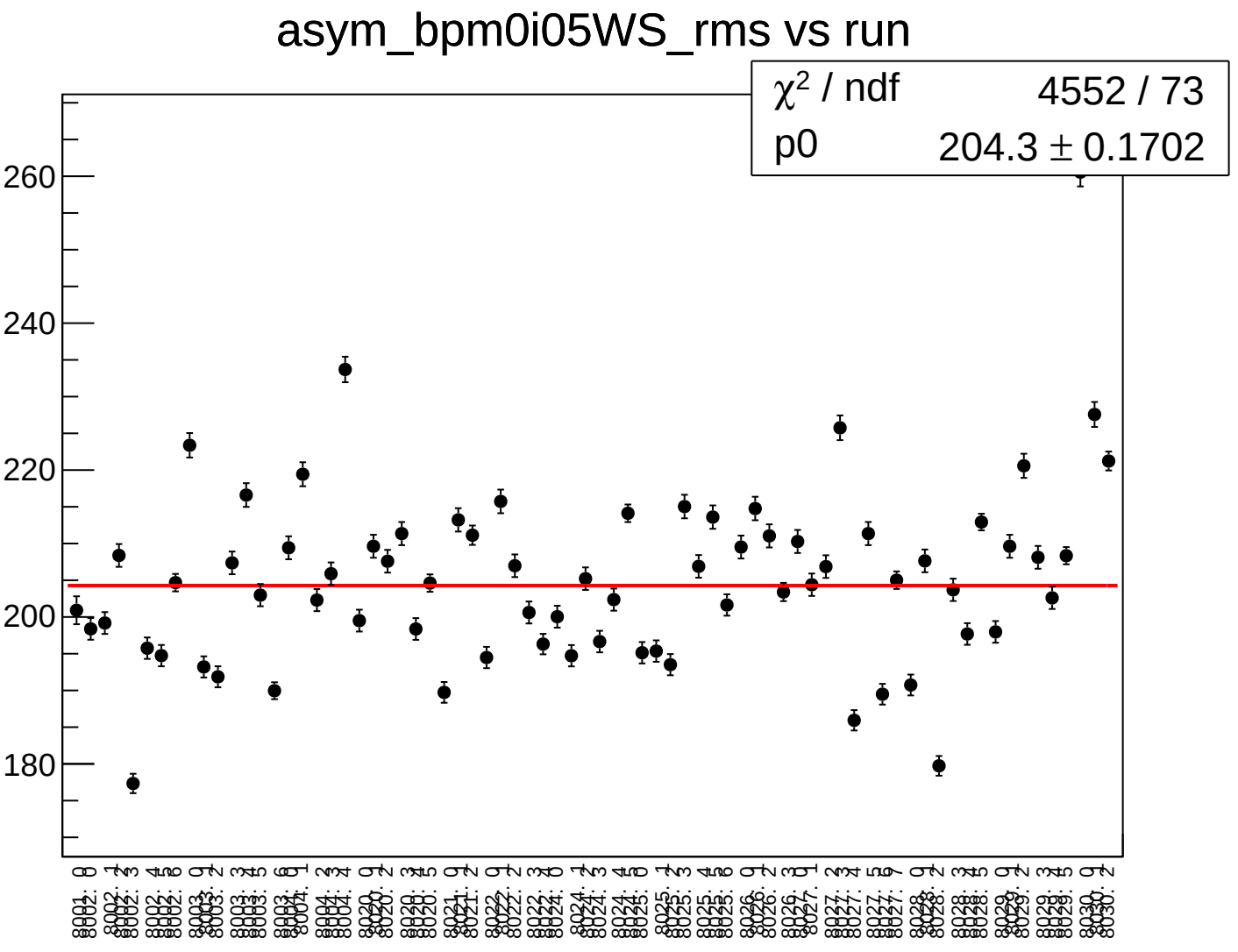

asym_bpm0i02aWS_mean vs run
χ² / ndf 2210 / 73
p0 −1.257e+04 ± 210.1
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 1220
Std Dev 1188
10
5
0
−5
−10

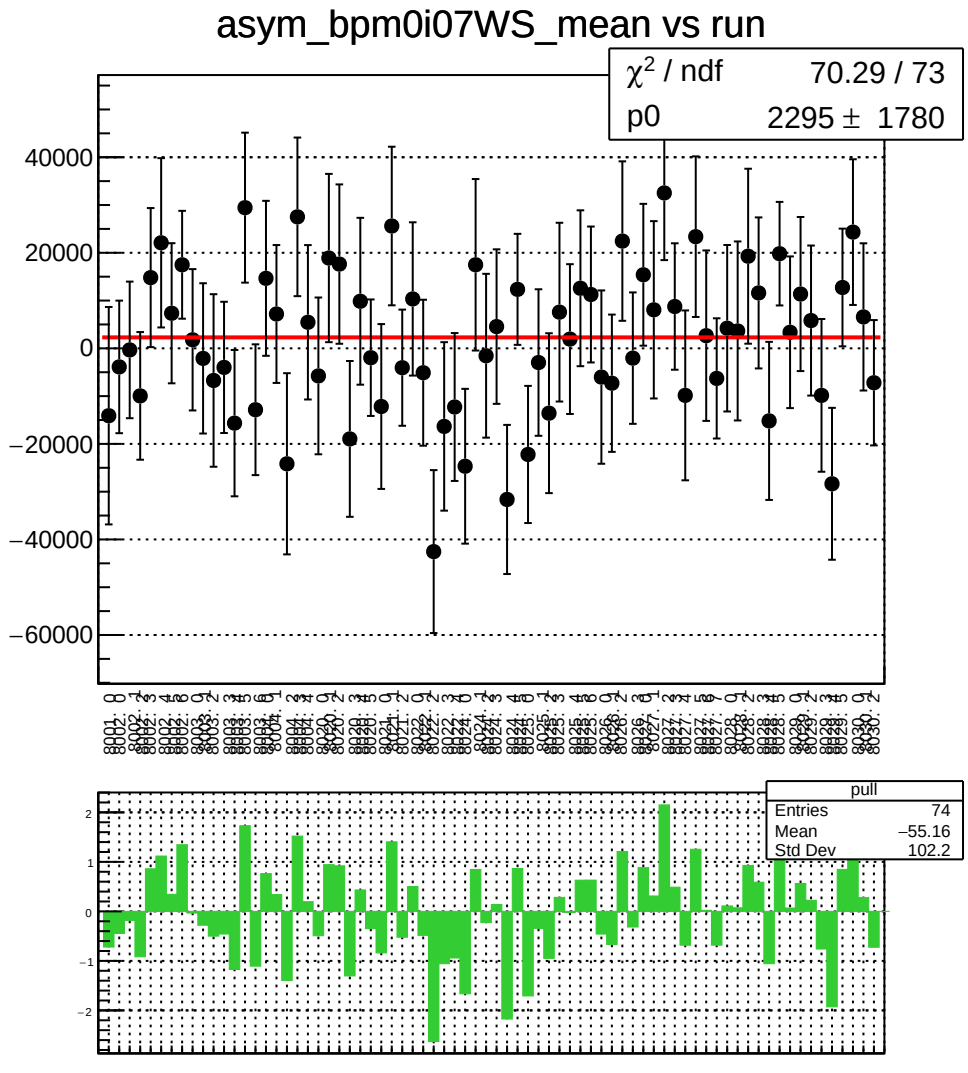

pull1D
Entries 74
Mean −0.186
Std Dev 3.644
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

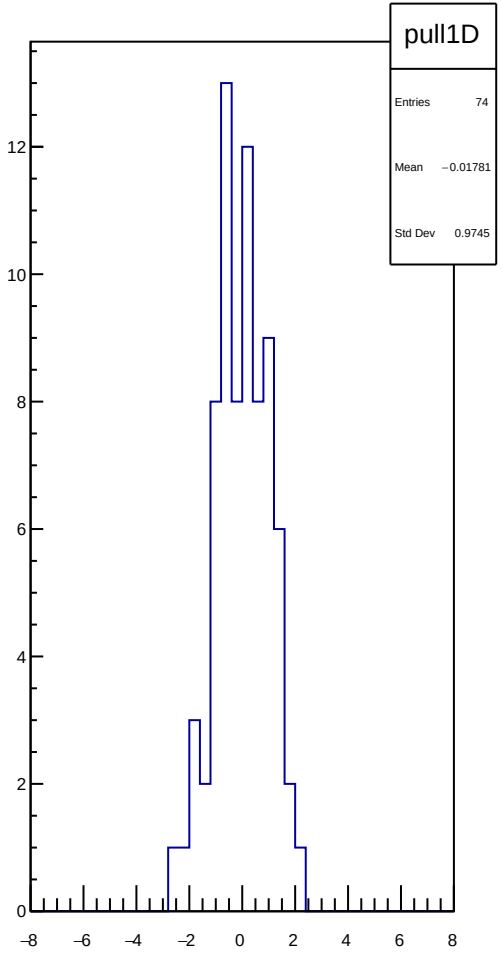

asym_bpm0i02aWS_rms vs run
χ² / ndf 2777 / 73
p0 178.5 ± 0.1486
210
200
190
180
170
160

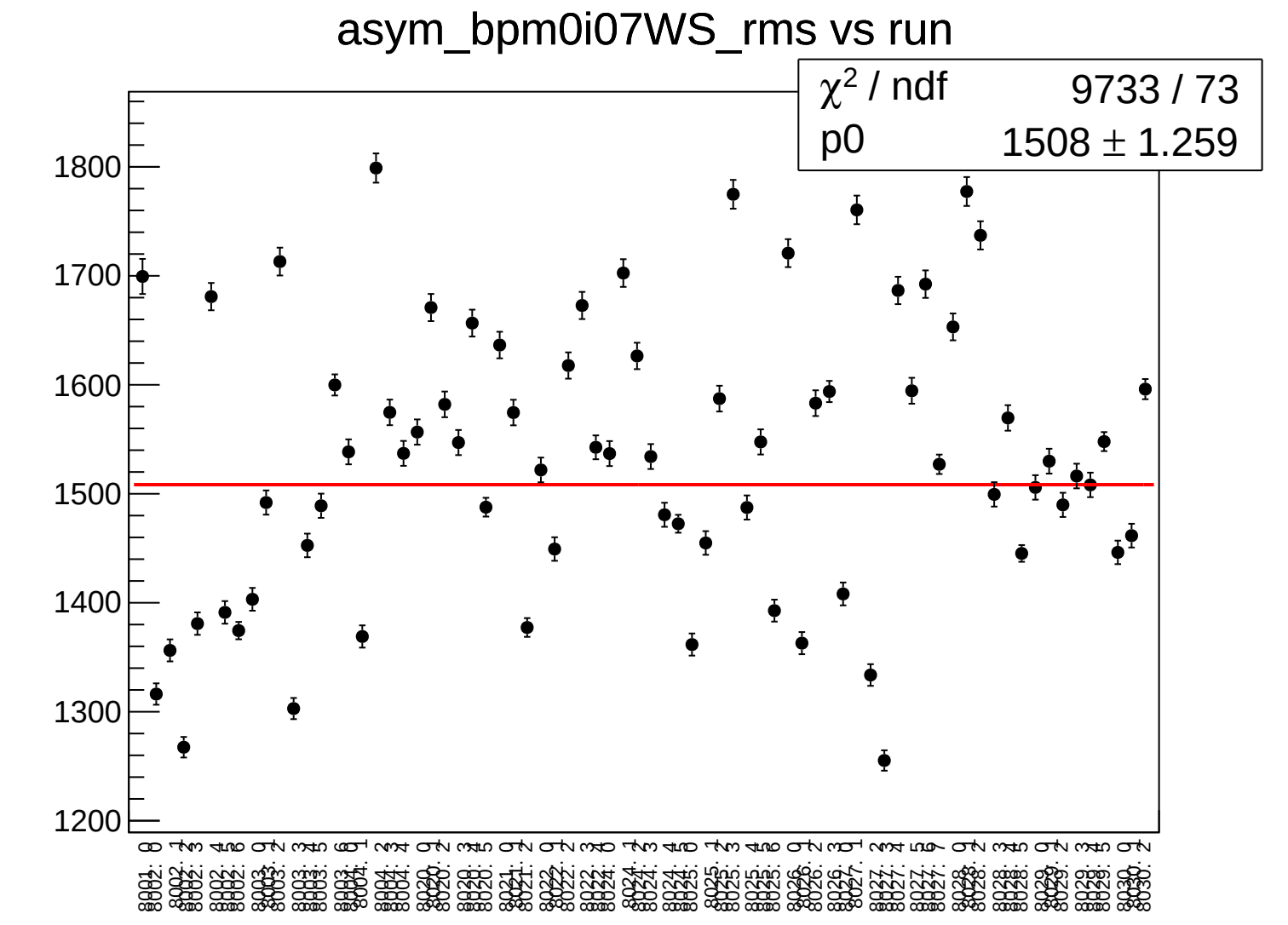

asym_bpm0i05WS_mean vs run
χ² / ndf 3062 / 73
p0 −1.013e+04 ± 240.6
20000
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 5979
Std Dev 5944
10
5
0
−5
−10

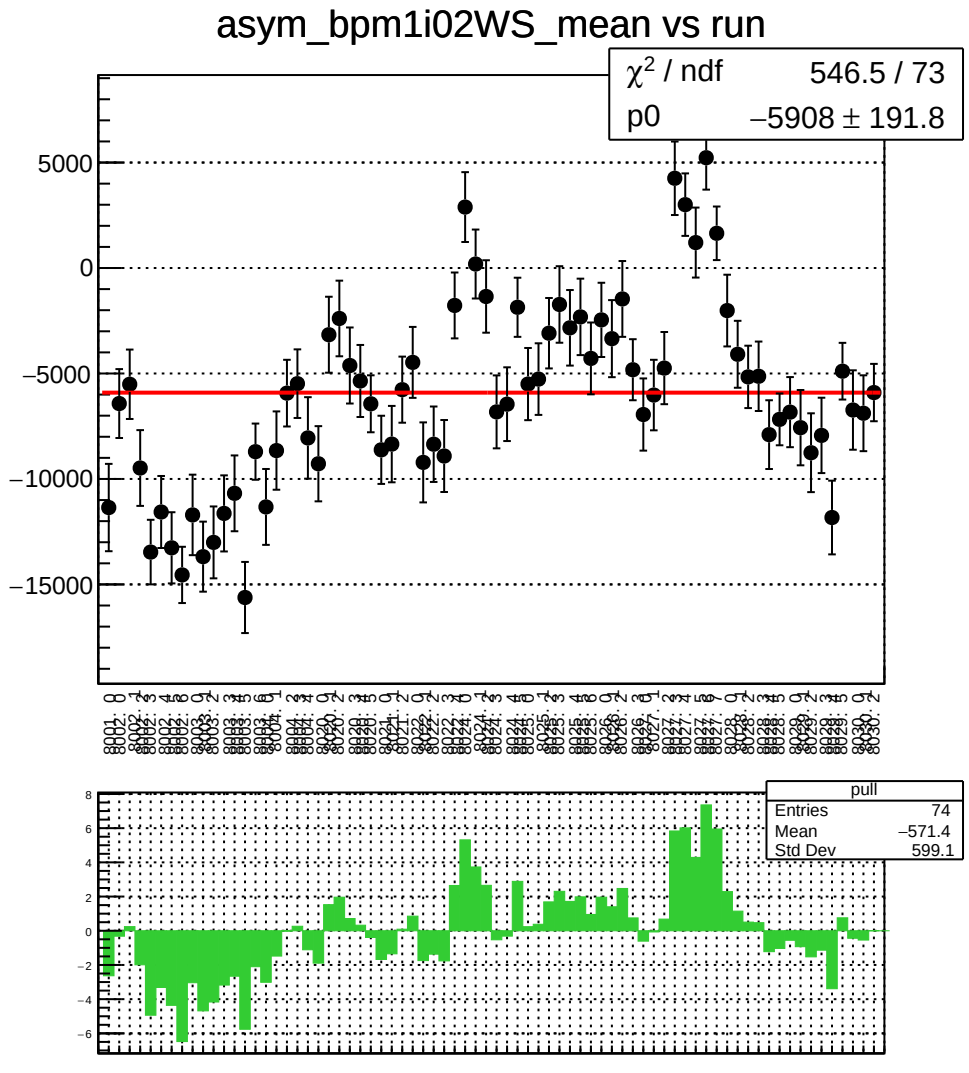

pull1D
Entries 74
Mean −1.127
Std Dev 4.337
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

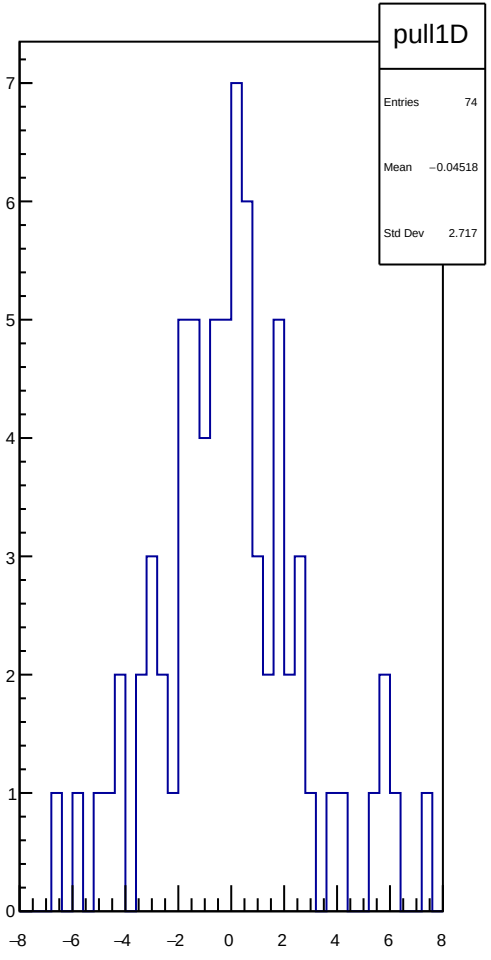

asym_bpm0i05WS_rms vs run
χ² / ndf 4552 / 73
p0 204.3 ± 0.1702
260
240
220
200
180

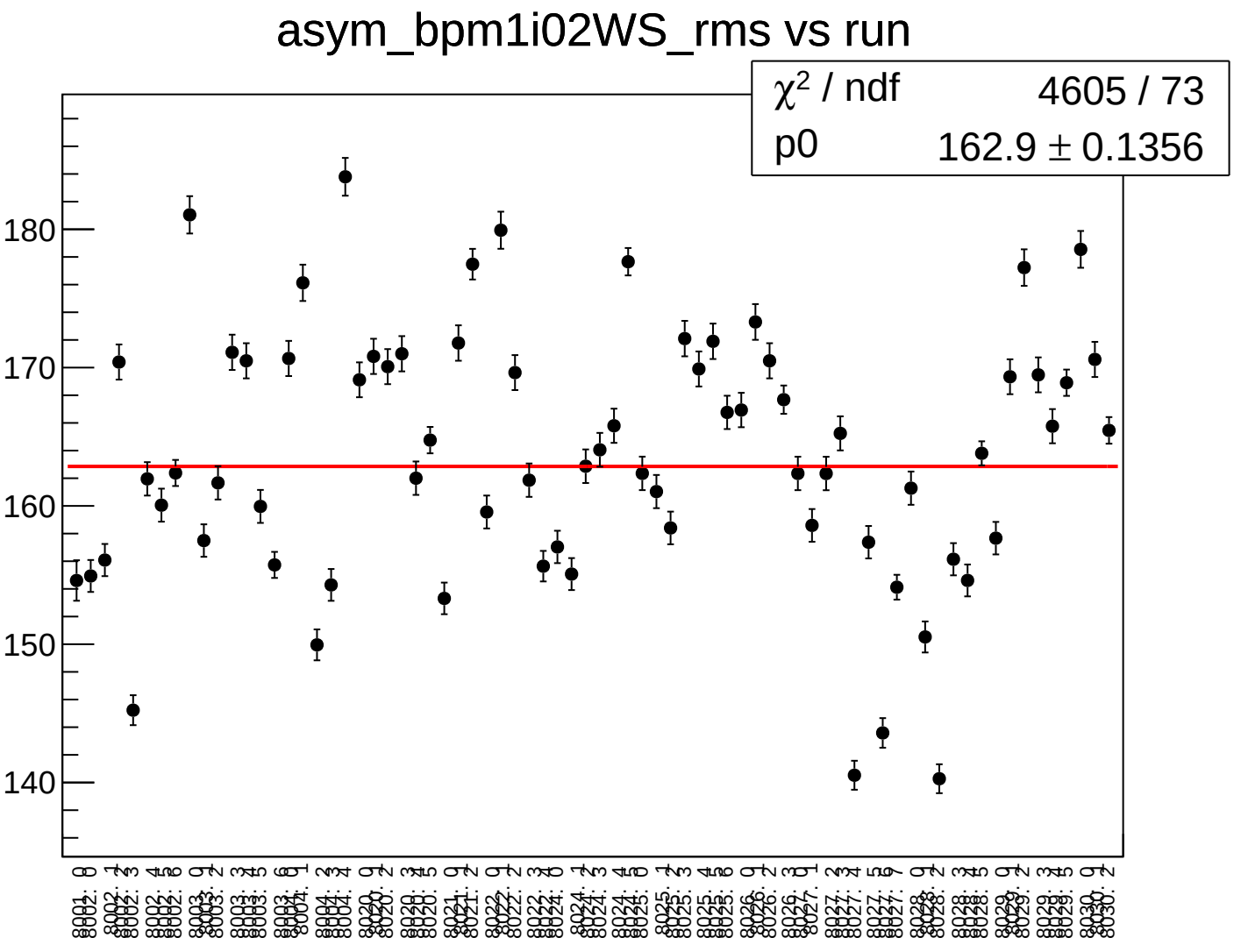

asym_bpm0i07WS_mean vs run
χ² / ndf 70.29 / 73
p0 2295 ± 1780
40000
20000
0
−20000
−40000
−60000
pull
Entries 74
Mean −55.16
Std Dev 102.2
2
1
0
−1
−2

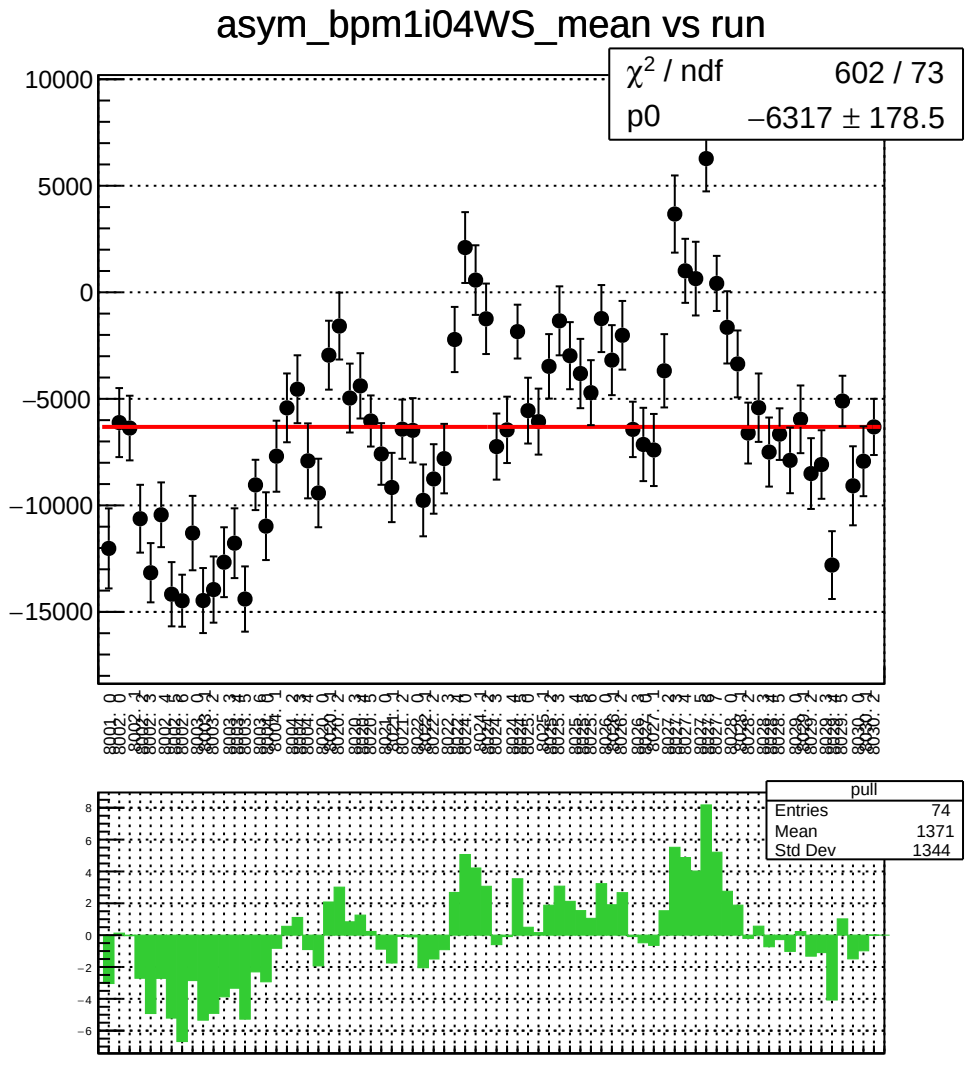

pull1D
Entries 74
Mean −0.01781
Std Dev 0.9745
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

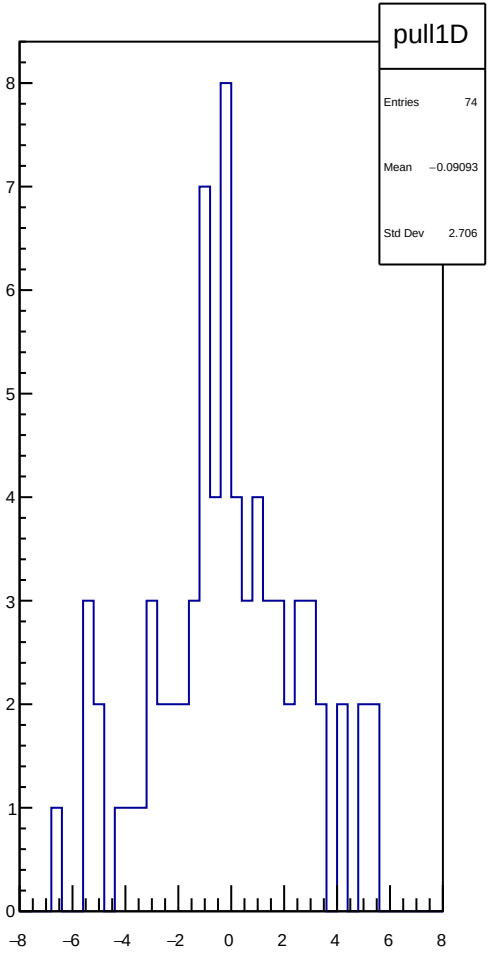

asym_bpm0i07WS_rms vs run
χ^2 / ndf 9733 / 73
p0 1508 ± 1.259
1800
1700
1600
1500
1400
1300
1200

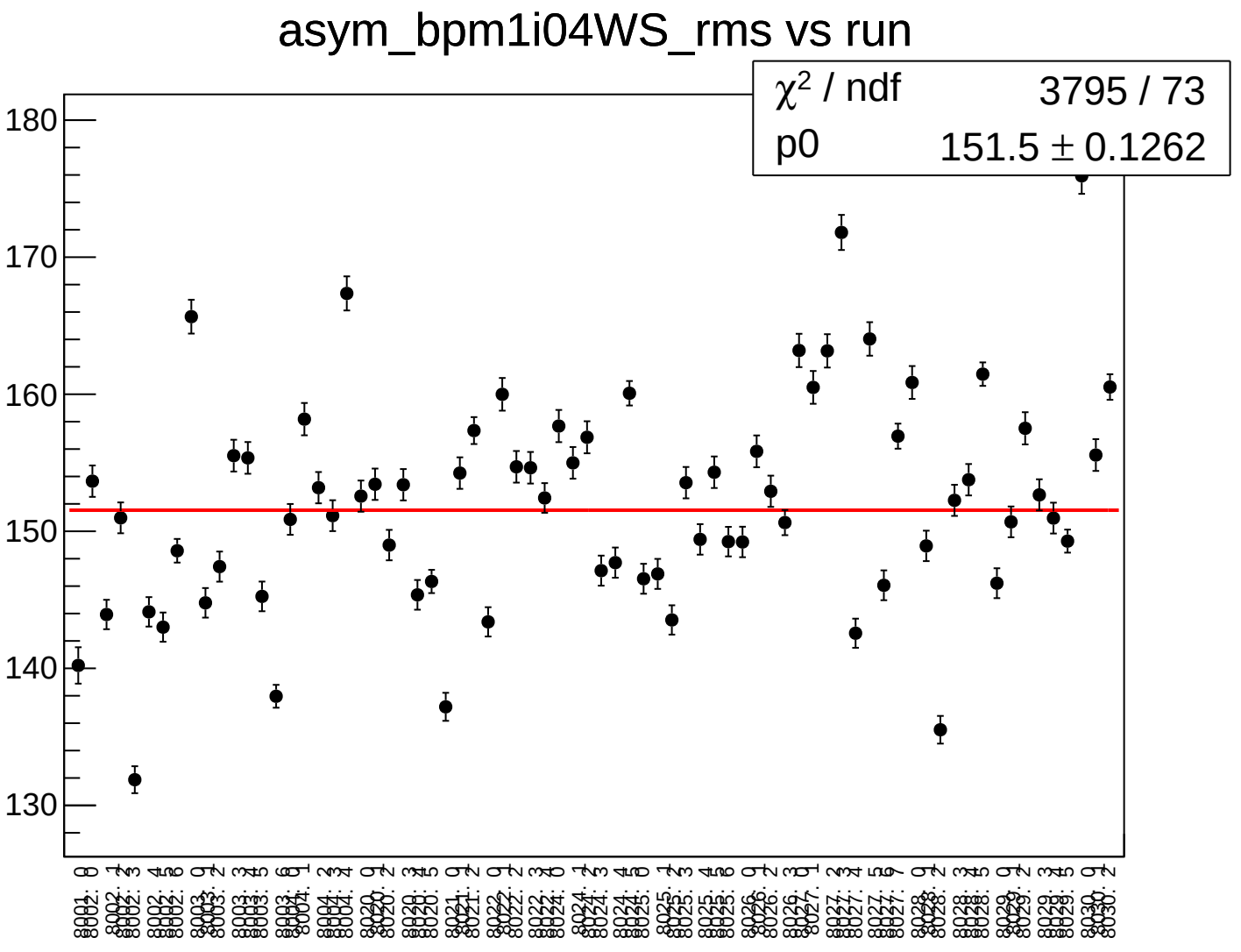

asym_bpm1i02WS_mean vs run
χ² / ndf 546.5 / 73
p0 −5908 ± 191.8
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean −571.4
Std Dev 599.1
8
6
4
2
0
−2
−4
−6

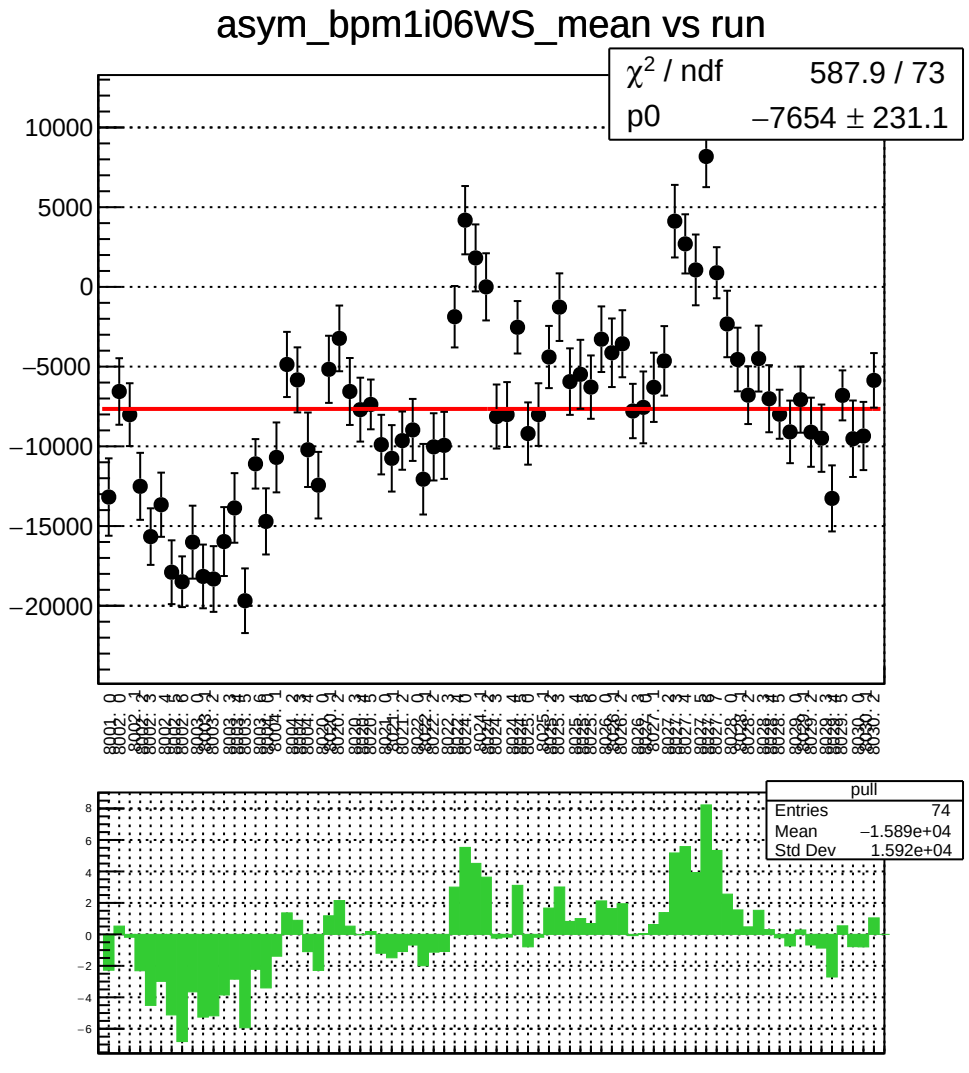

pull1D
Entries 74
Mean −0.04518
Std Dev 2.717
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

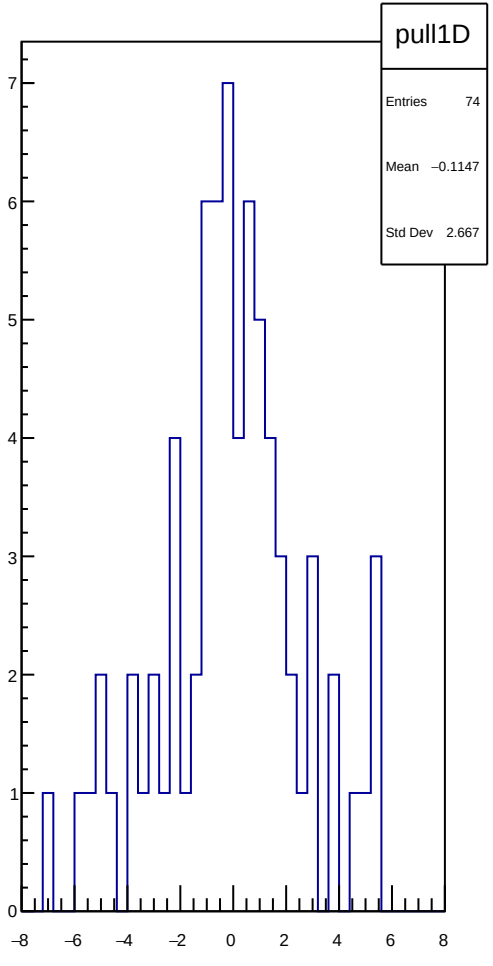

asym_bpm1i02WS_rms vs run
χ² / ndf 4605 / 73
p0 162.9 ± 0.1356
180
170
160
150
140

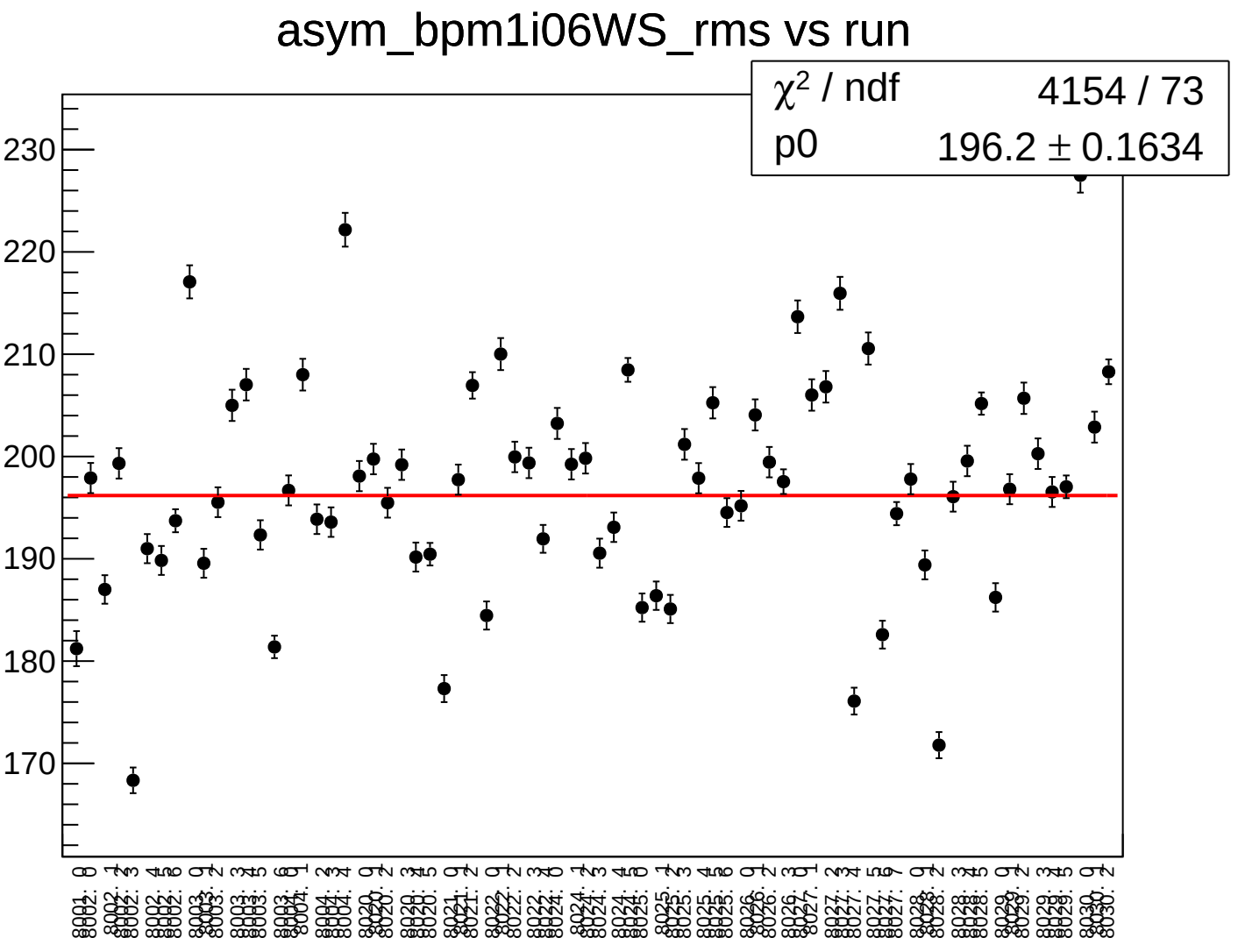

asym_bpm1i04WS_mean vs run
χ² / ndf 602 / 73
p0 −6317 ± 178.5
pull
Entries 74
Mean 1371
Std Dev 1344

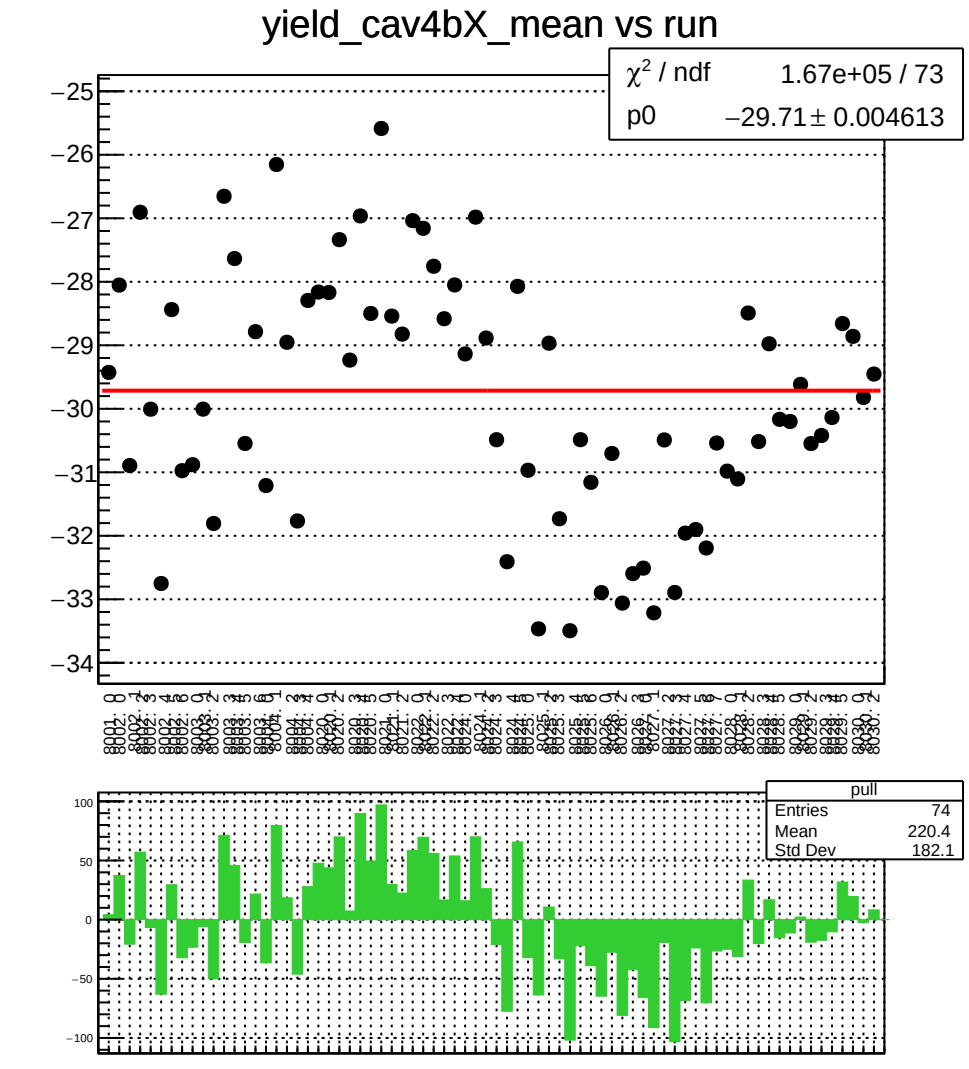

pull1D
Entries 74
Mean −0.09093
Std Dev 2.706

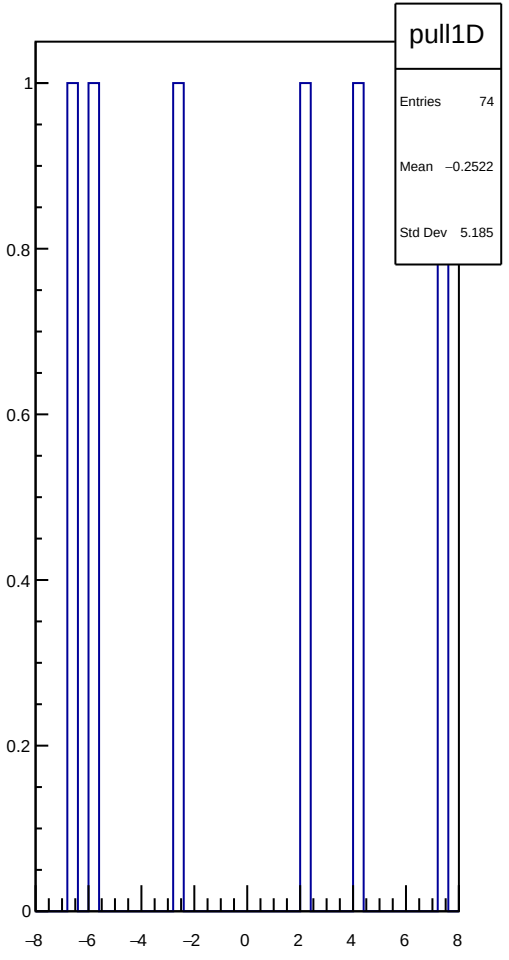

asym_bpm1i04WS_rms vs run
χ² / ndf 3795 / 73
p0 151.5 ± 0.1262
180
170
160
150
140
130

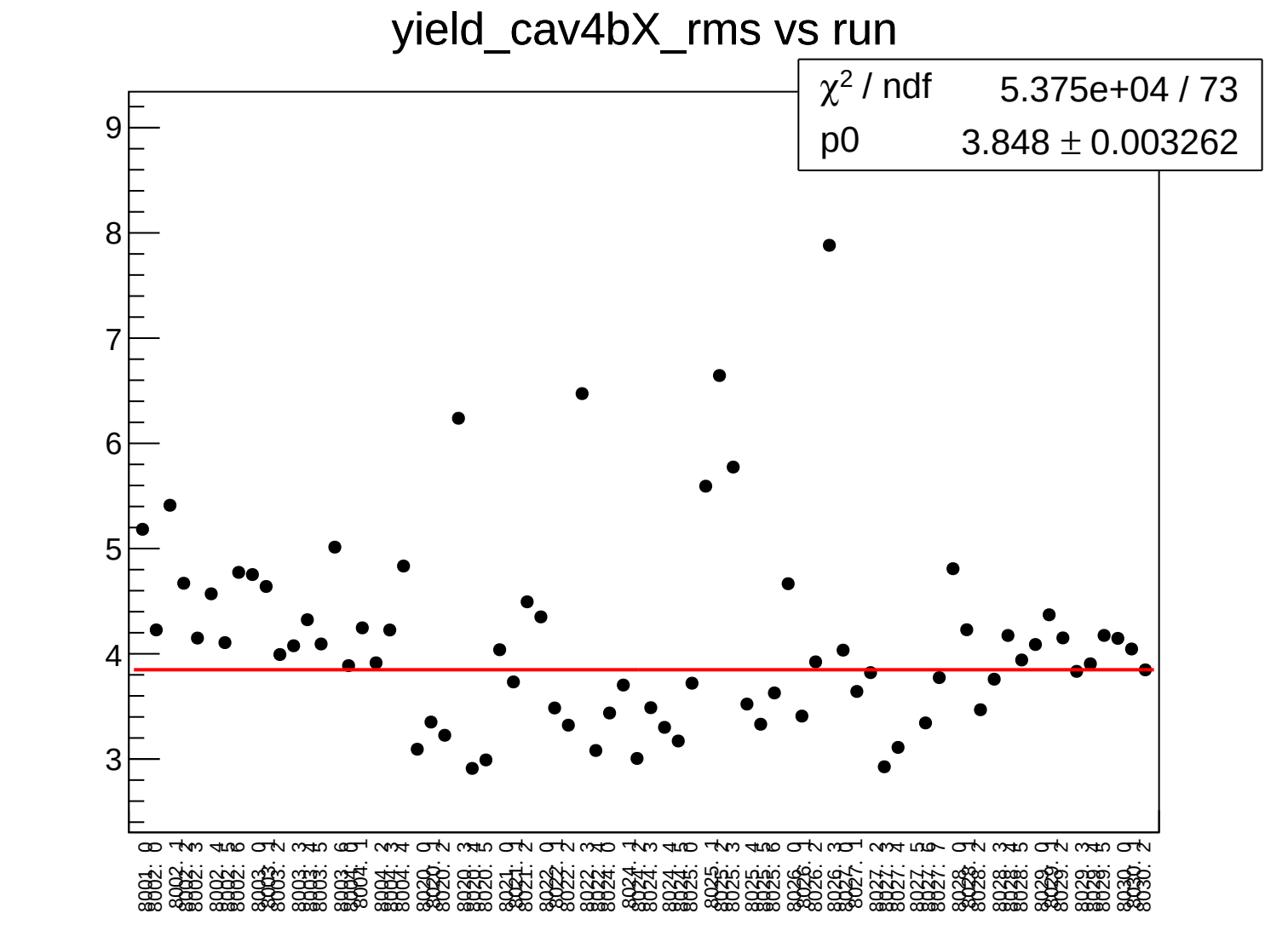

asym_bpm1i06WS_mean vs run
χ² / ndf 587.9 / 73
p0 −7654 ± 231.1
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 74
Mean −1.589e+04
Std Dev 1.592e+04
8
6
4
2
0
−2
−4
−6

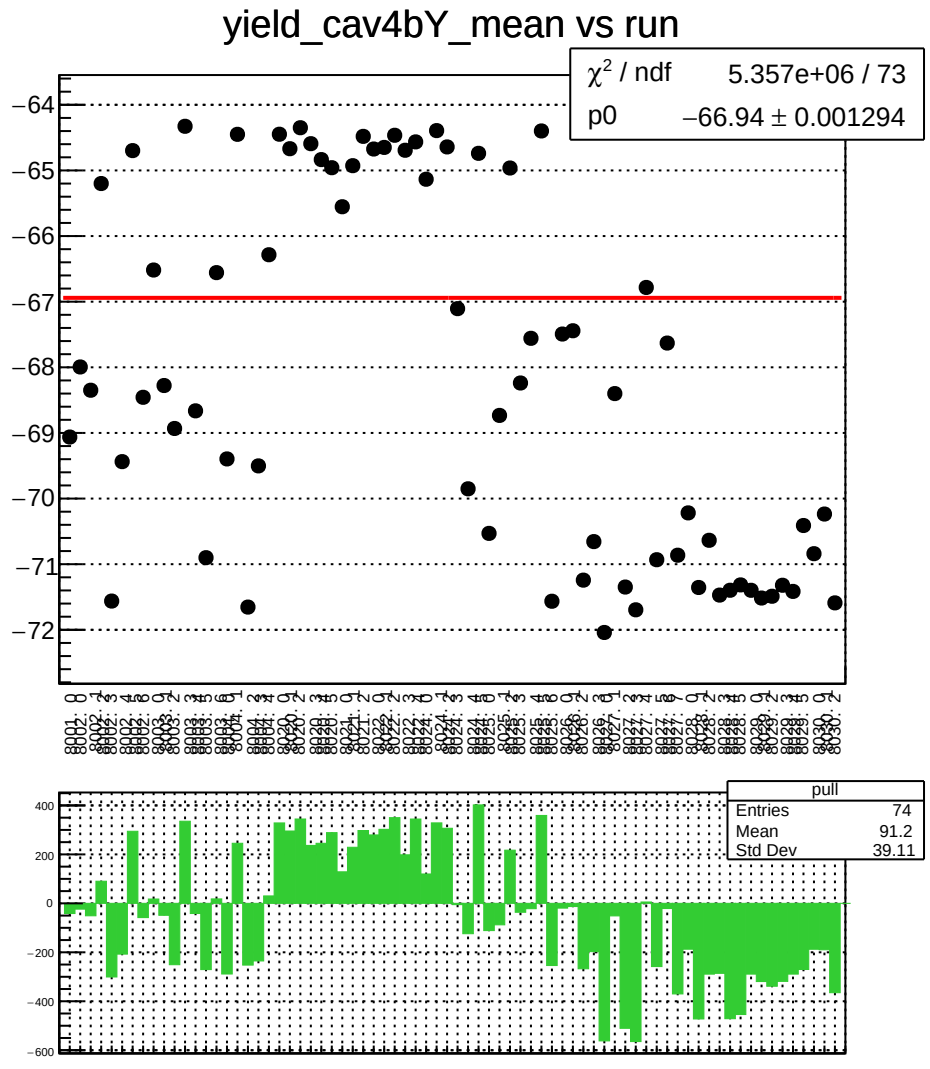

pull1D
Entries 74
Mean −0.1147
Std Dev 2.667
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

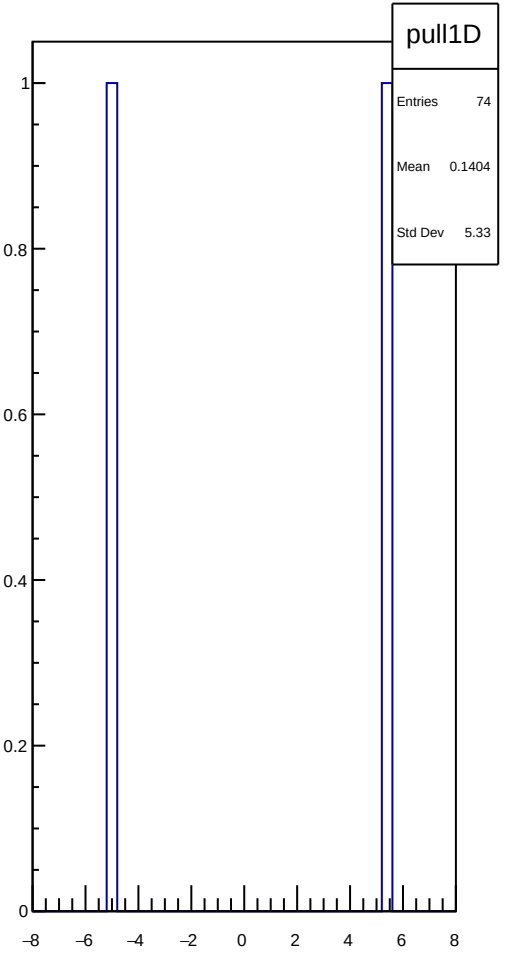

asym_bpm1i06WS_rms vs run
χ² / ndf 4154 / 73
p0 196.2 ± 0.1634
230
220
210
200
190
180
170

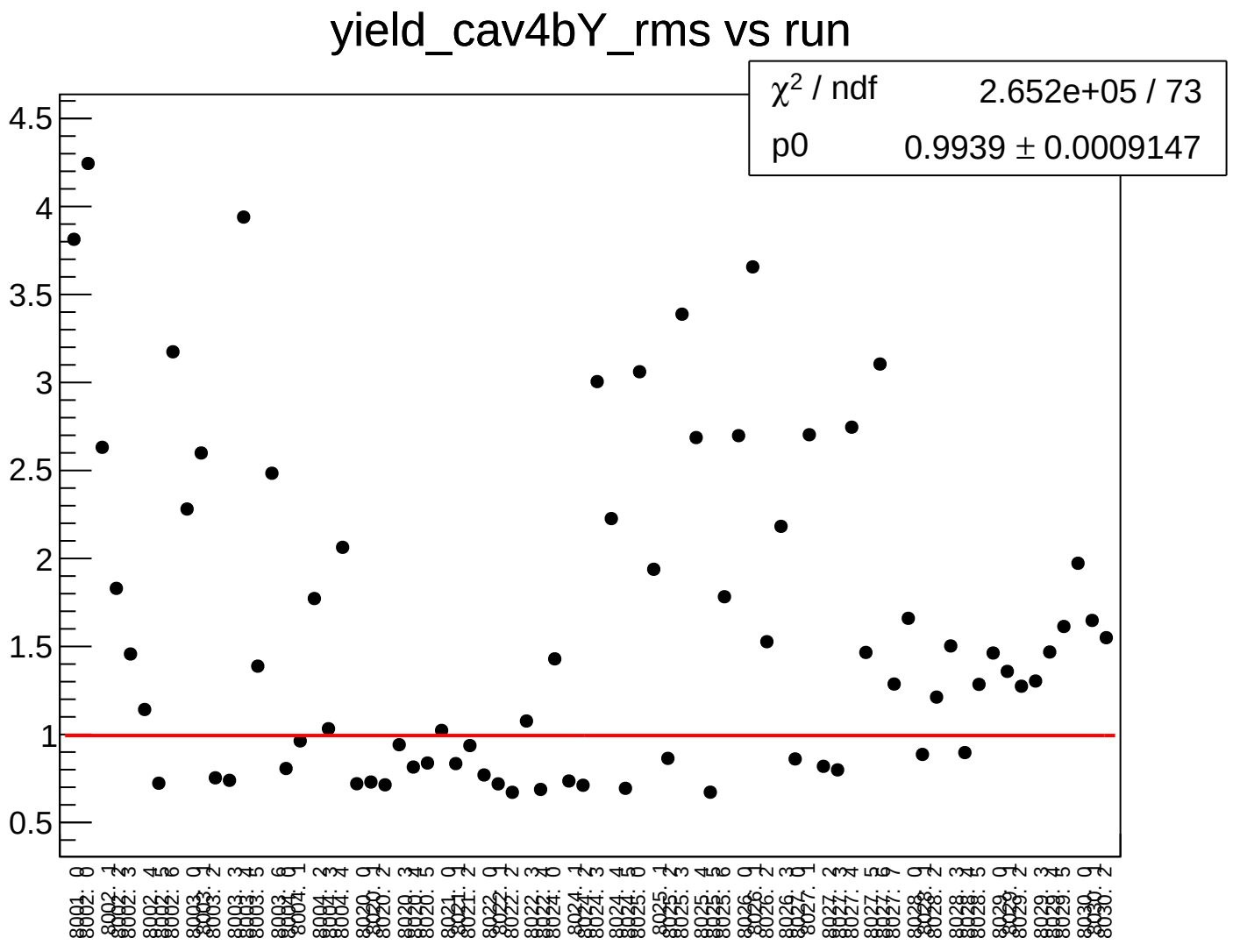

yield_cav4bX_mean vs run
χ² / ndf 1.67e+05 / 73
p0 −29.71 ± 0.004613
pull
Entries 74
Mean 220.4
Std Dev 182.1

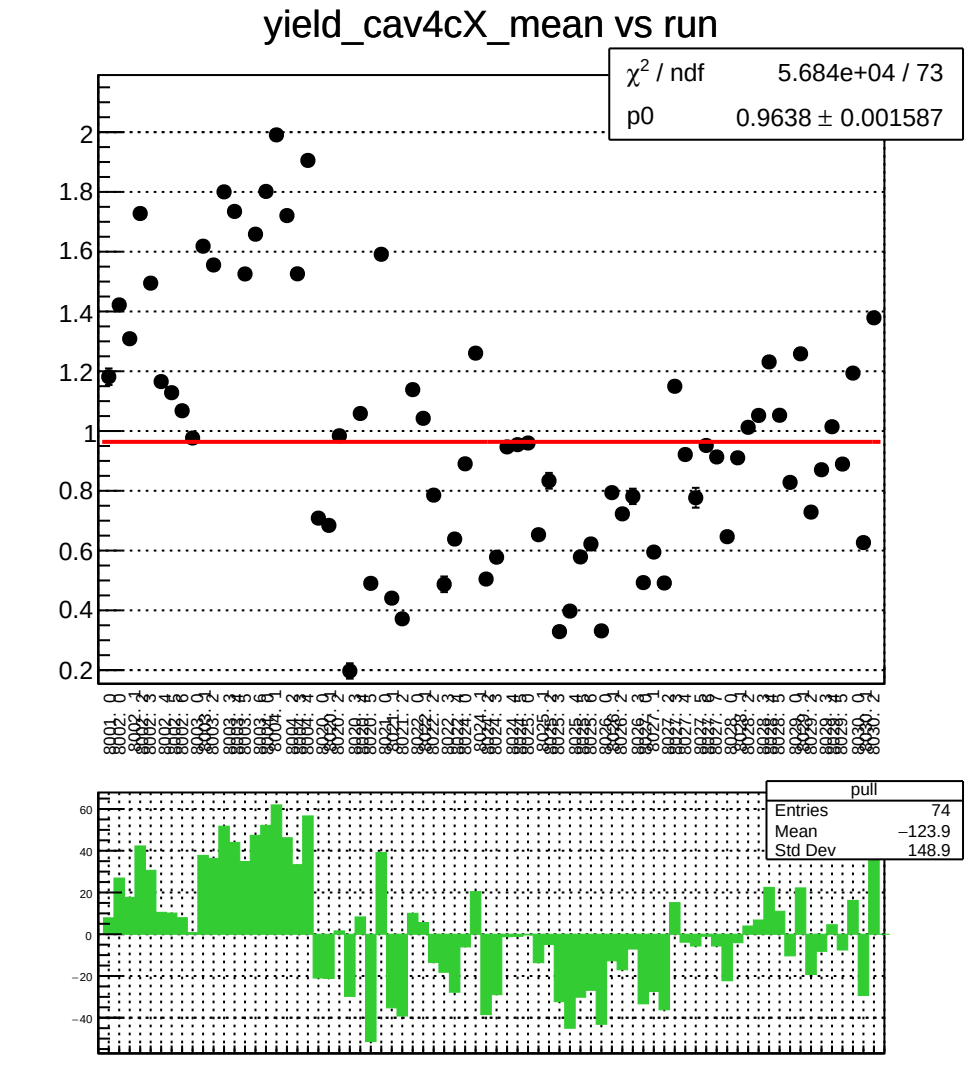

pull1D
Entries 74
Mean −0.2522
Std Dev 5.185

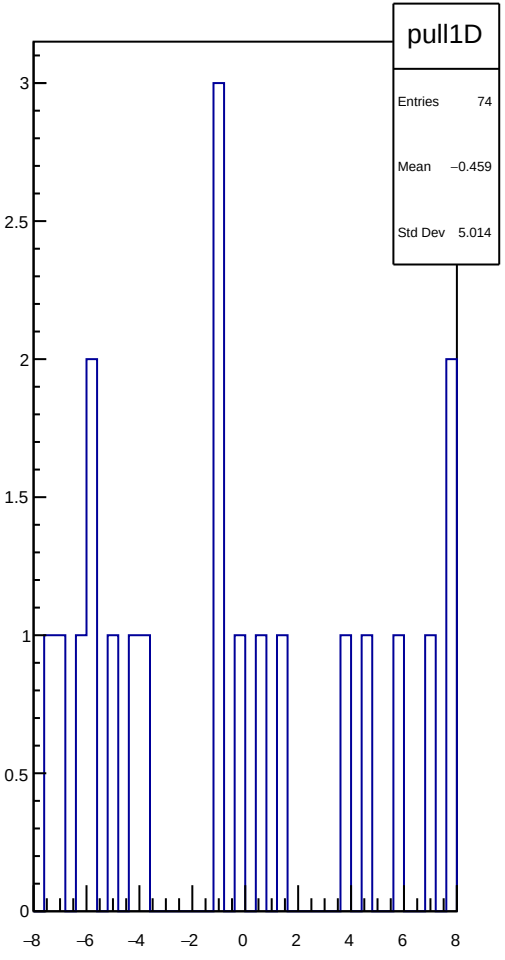

yield_cav4bX_rms vs run
χ^2 / ndf 5.375e+04 / 73
p0 3.848 ± 0.003262
9
8
7
6
5
4
3

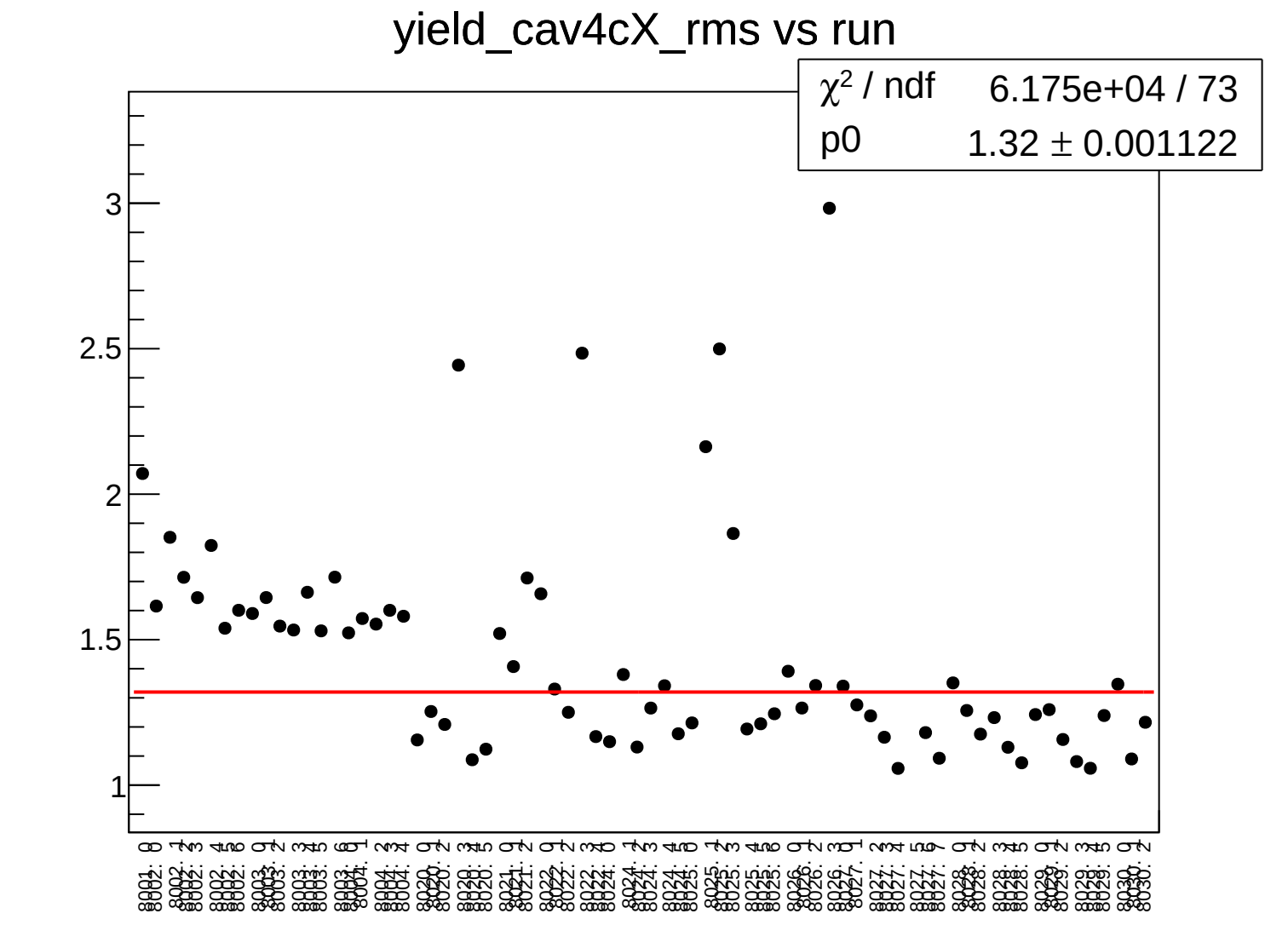

yield_cav4bY_mean vs run
χ² / ndf 5.357e+06 / 73
p0 −66.94 ± 0.001294
pull
Entries 74
Mean 91.2
Std Dev 39.11

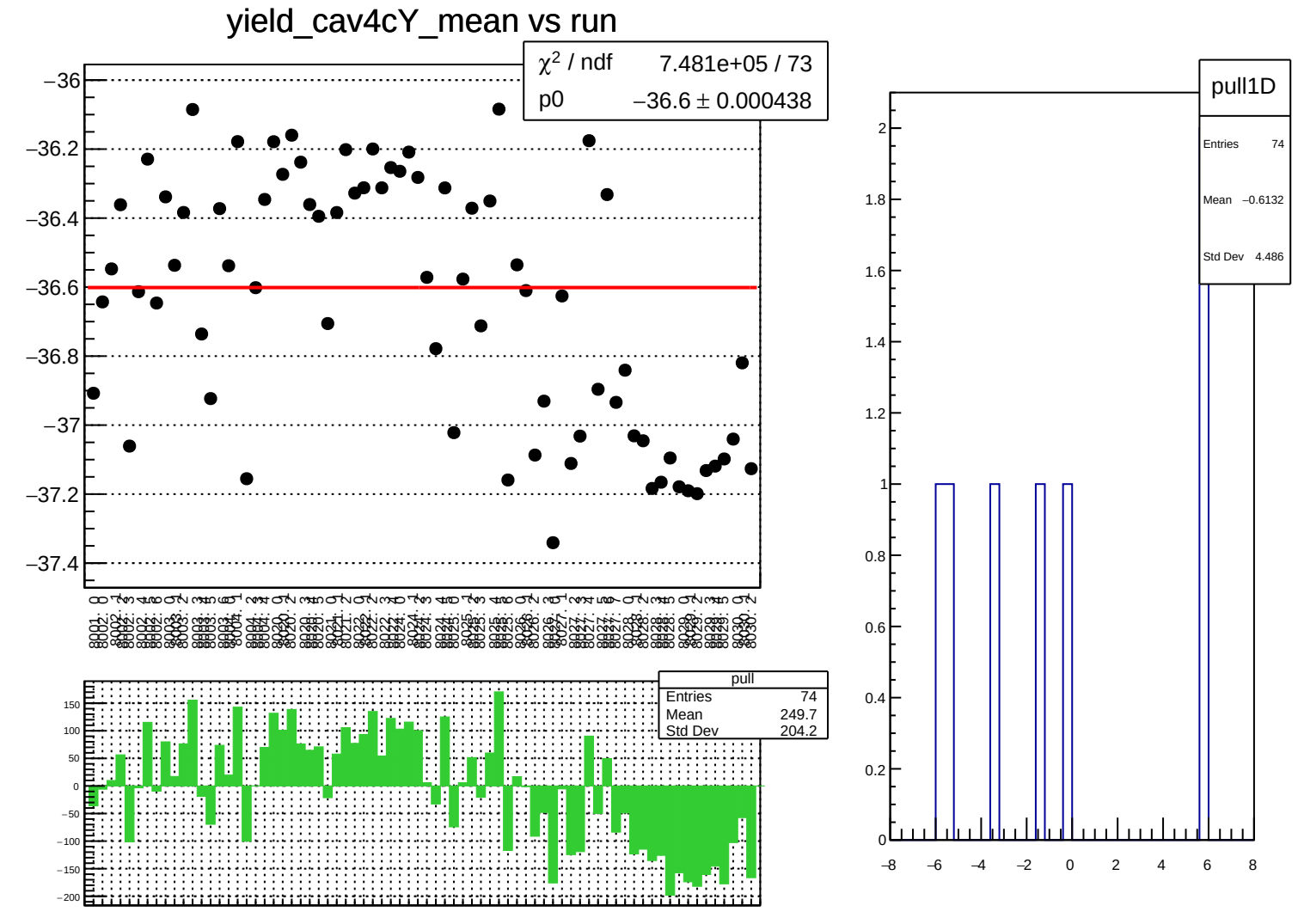

pull1D
Entries 74
Mean 0.1404
Std Dev 5.33

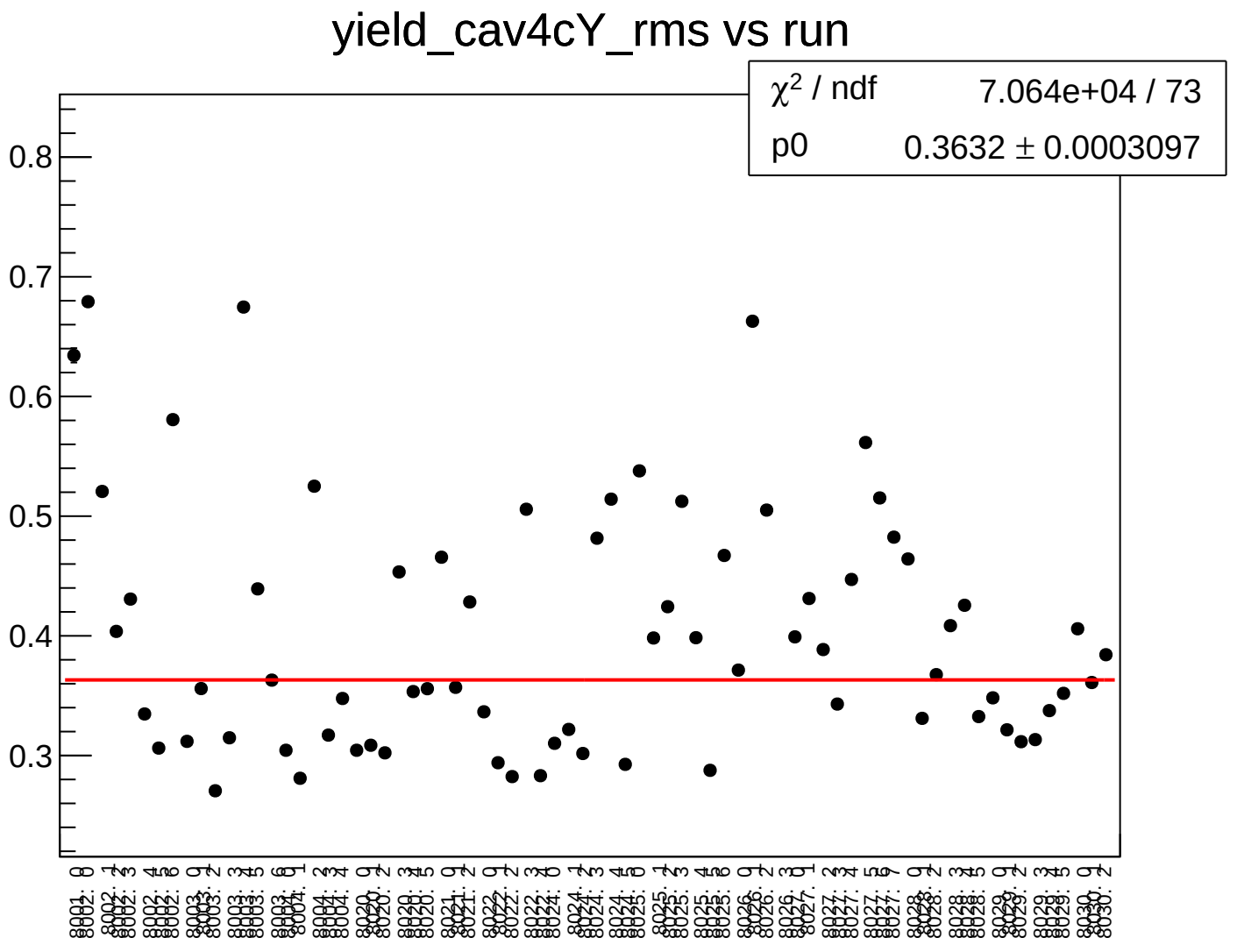

yield_cav4bY_rms vs run
χ² / ndf 2.652e+05 / 73
p0 0.9939 ± 0.0009147
4.5
4
3.5
3
2.5
2
1.5
1
0.5

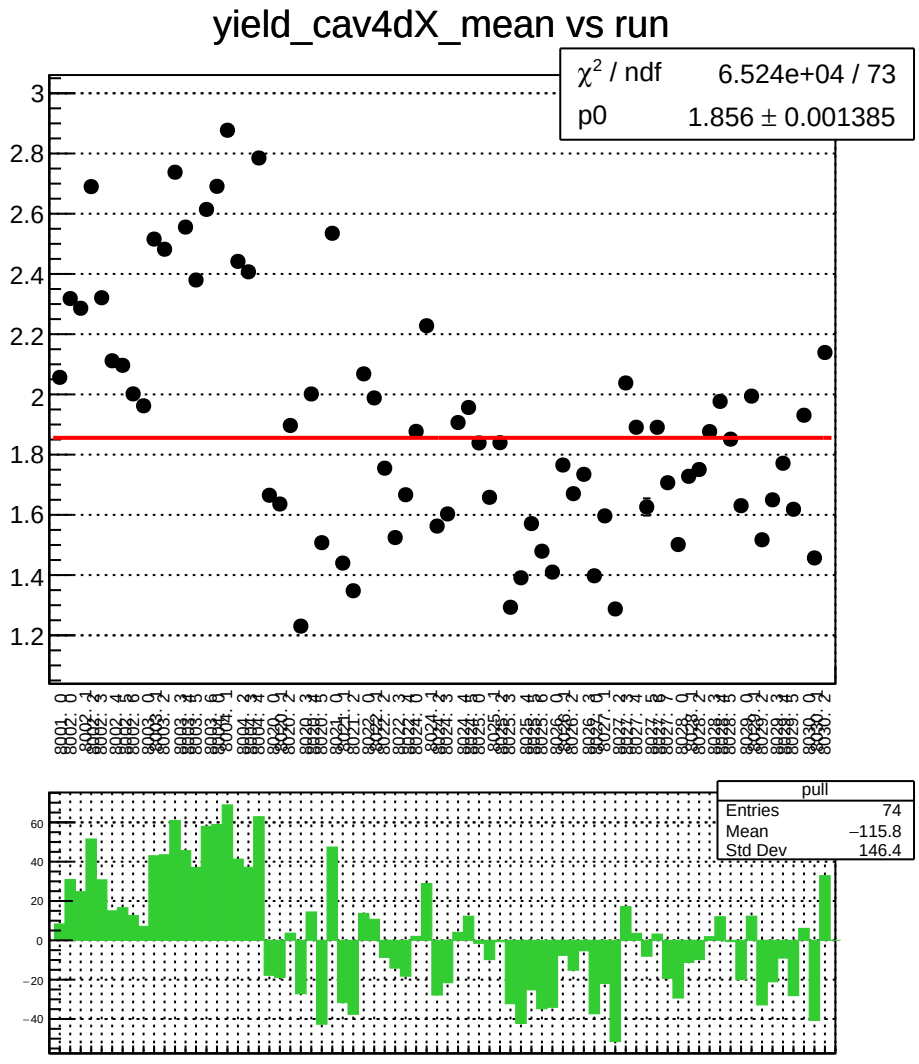

yield_cav4cX_mean vs run
χ² / ndf 5.684e+04 / 73
p0 0.9638 ± 0.001587
pull
Entries 74
Mean −123.9
Std Dev 148.9

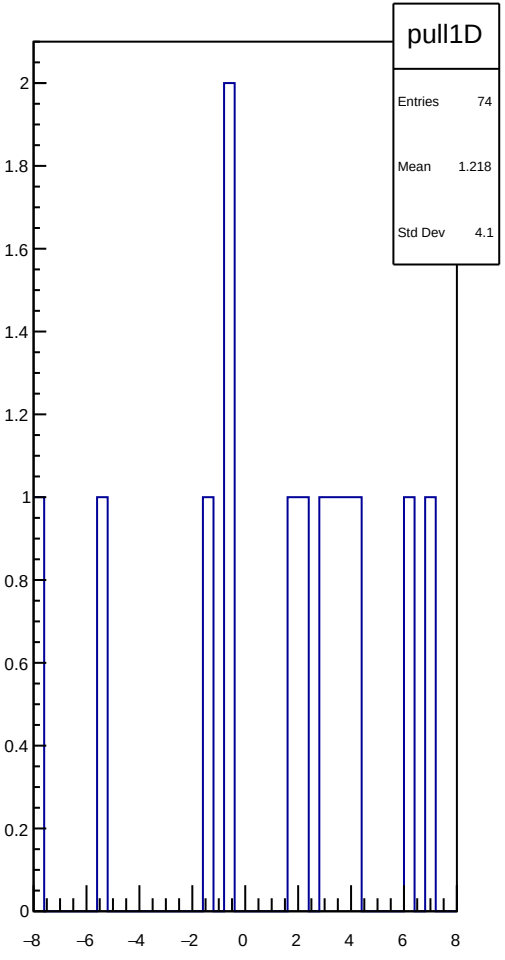

pull1D
Entries 74
Mean −0.459
Std Dev 5.014

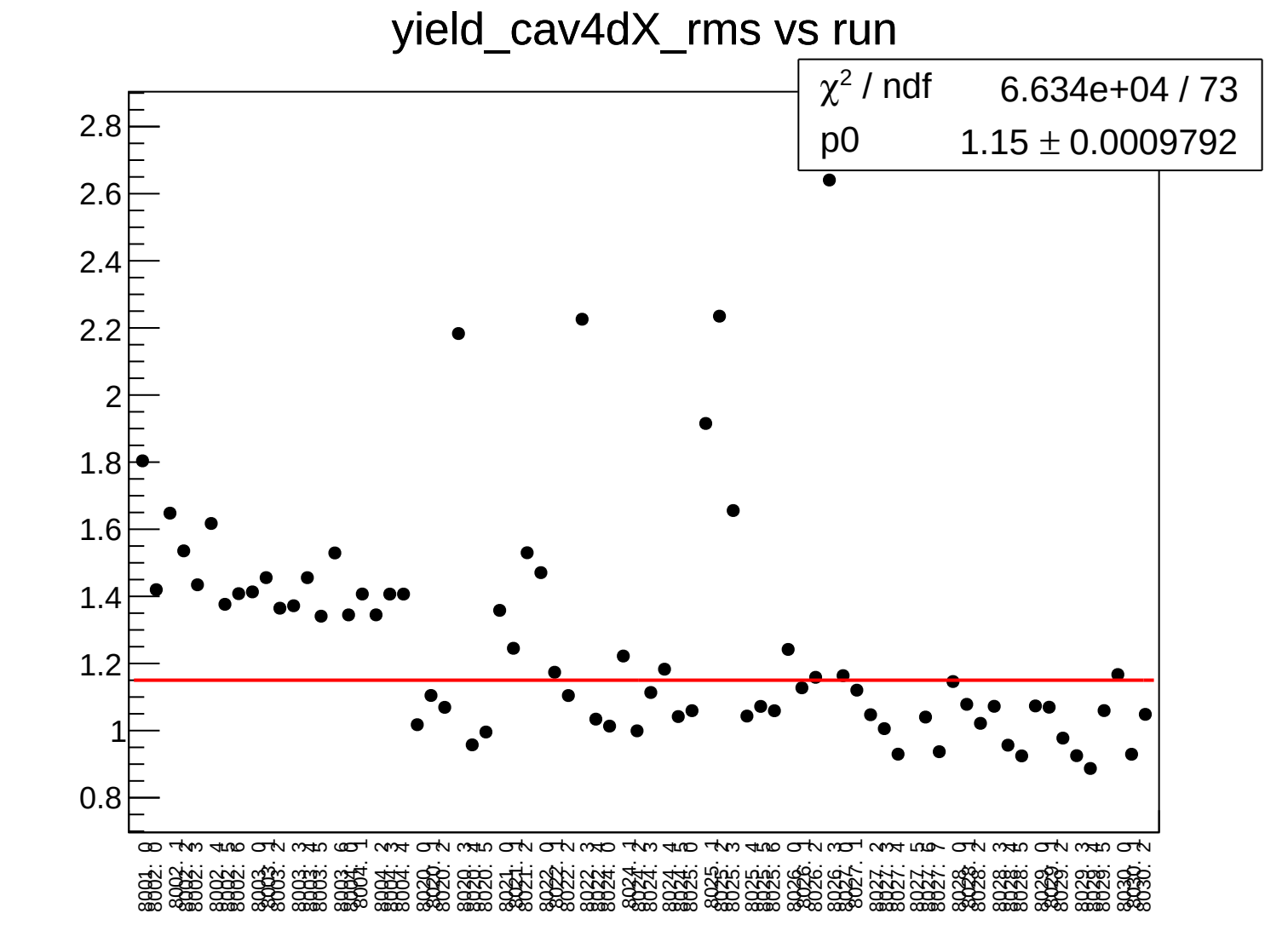

yield_cav4cX_rms vs run
χ^2 / ndf 6.175e+04 / 73
p0 1.32 ± 0.001122
3
2.5
2
1.5
1

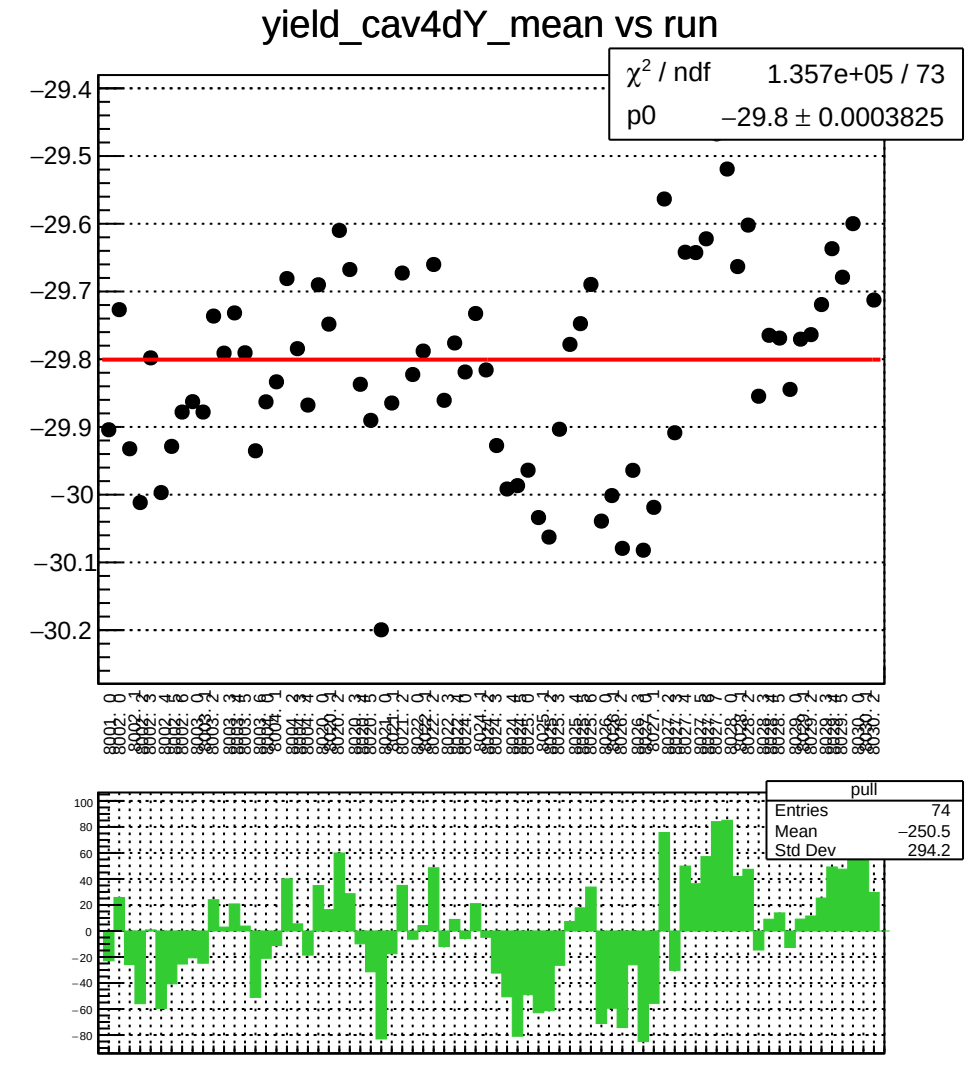

yield_cav4cY_mean vs run
χ² / ndf 7.481e+05 / 73
p0 −36.6 ± 0.000438
−36
−36.2
−36.4
−36.6
−36.8
−37
−37.2
−37.4
pull
Entries 74
Mean 249.7
Std Dev 204.2
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 74
Mean −0.6132
Std Dev 4.486
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

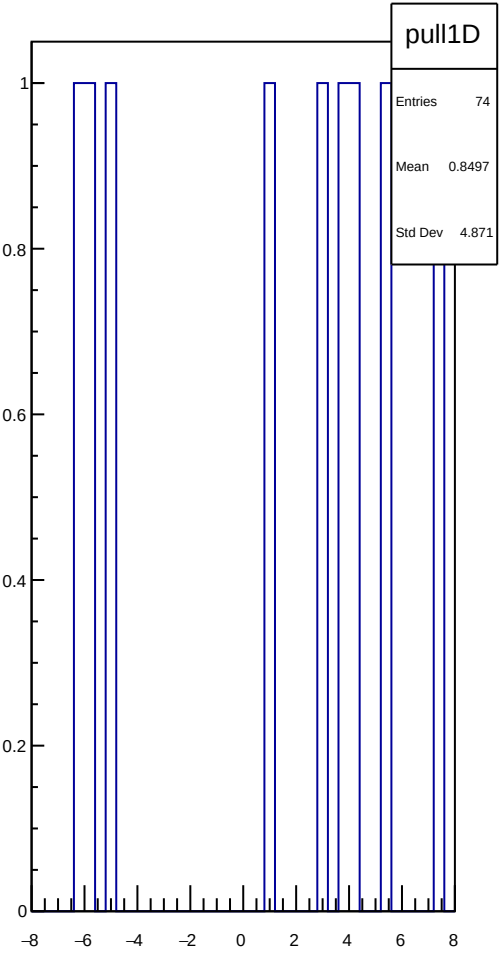

yield_cav4cY_rms vs run
χ² / ndf 7.064e+04 / 73
p0 0.3632 ± 0.0003097
0.8
0.7
0.6
0.5
0.4
0.3

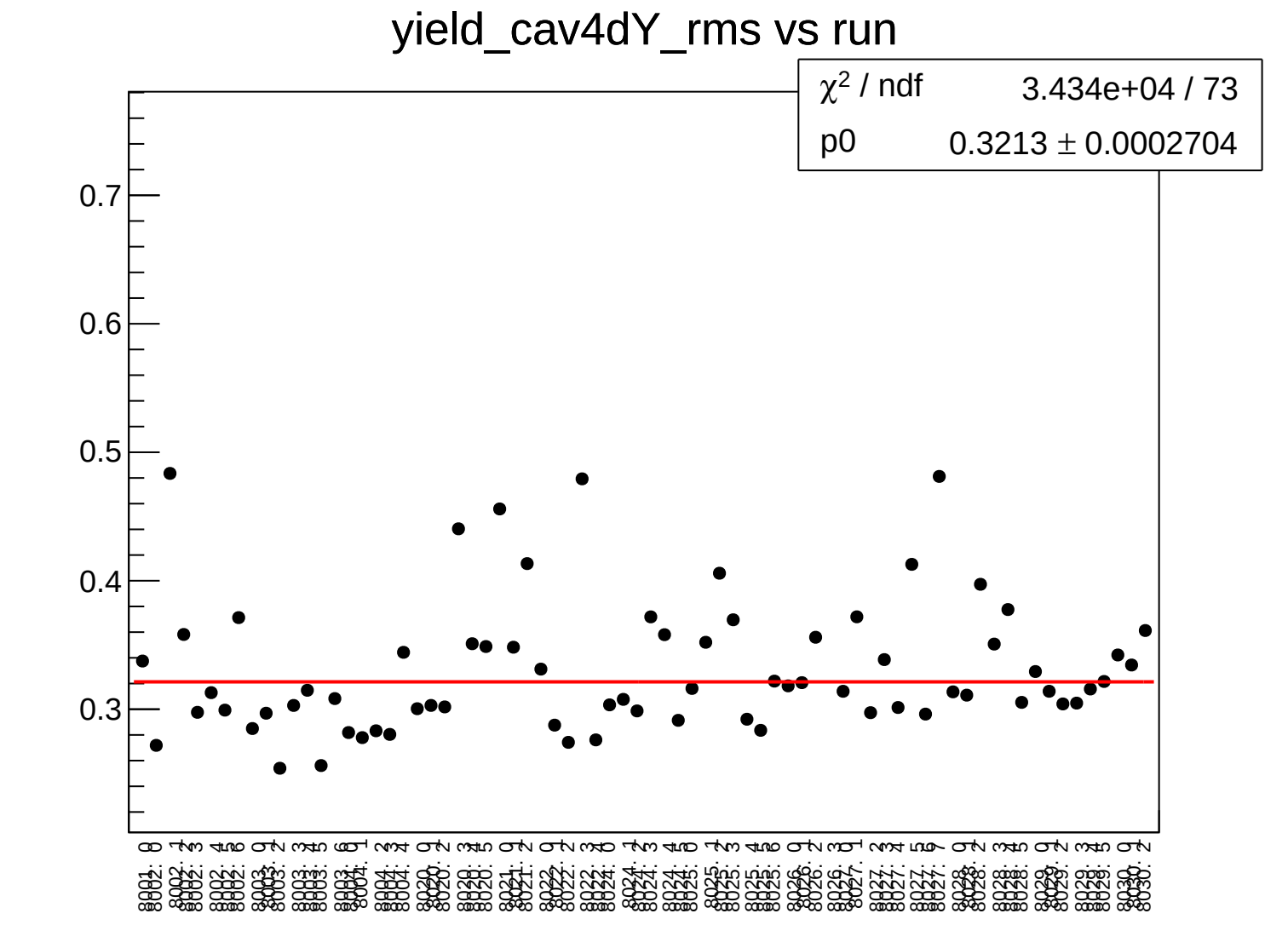

yield_cav4dX_mean vs run
χ² / ndf 6.524e+04 / 73
p0 1.856 ± 0.001385
pull
Entries 74
Mean −115.8
Std Dev 146.4

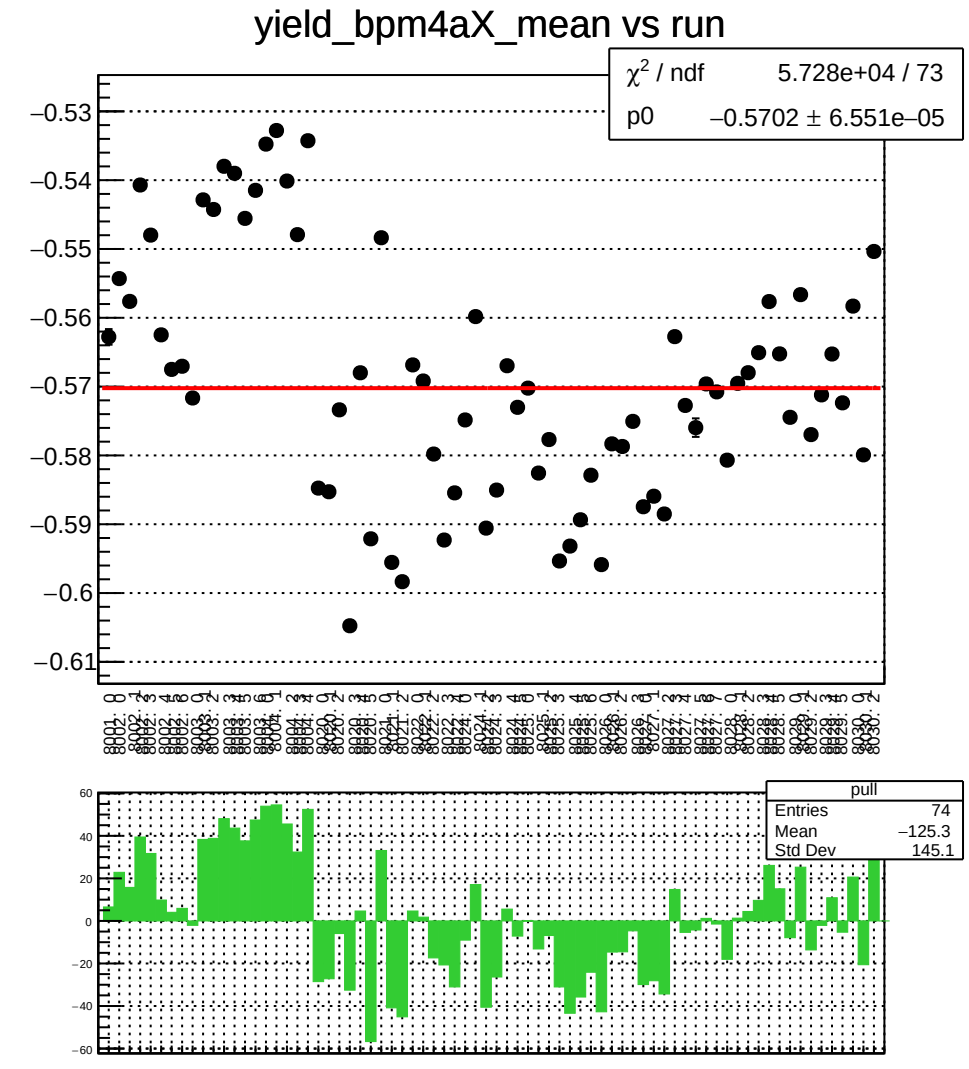

pull1D
Entries 74
Mean 1.218
Std Dev 4.1

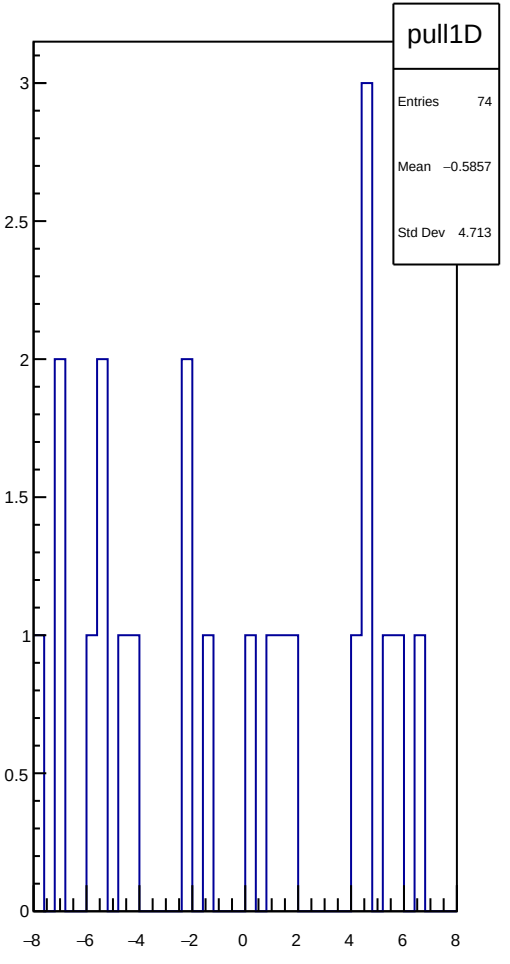

yield_cav4dX_rms vs run
χ^2 / ndf 6.634e+04 / 73
p0 1.15 ± 0.0009792
2.8
2.6
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8

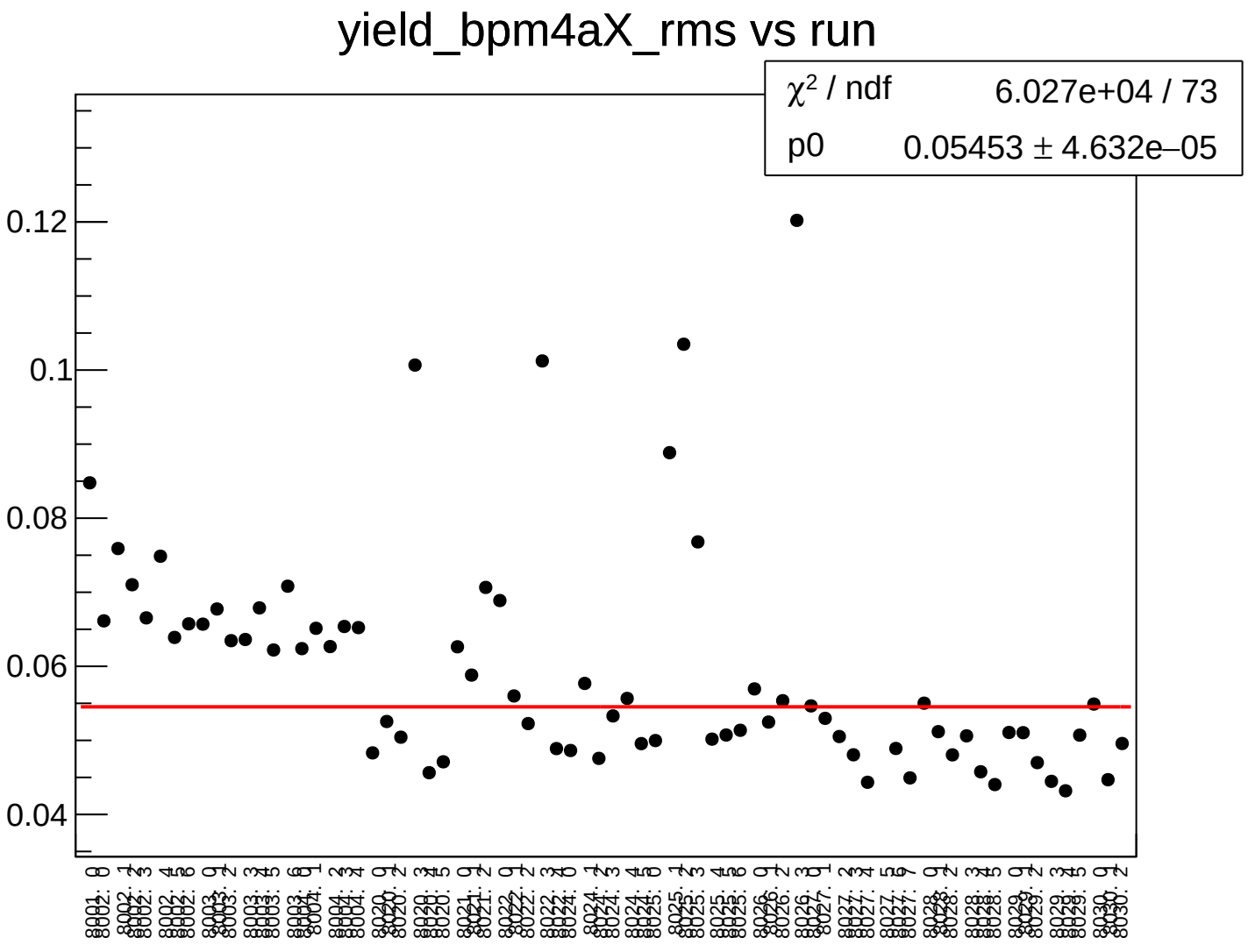

yield_cav4dY_mean vs run
χ² / ndf 1.357e+05 / 73
p0 −29.8 ± 0.0003825
−29.4
−29.5
−29.6
−29.7
−29.8
−29.9
−30
−30.1
−30.2
pull
Entries 74
Mean −250.5
Std Dev 294.2
100
80
60
40
20
0
−20
−40
−60
−80

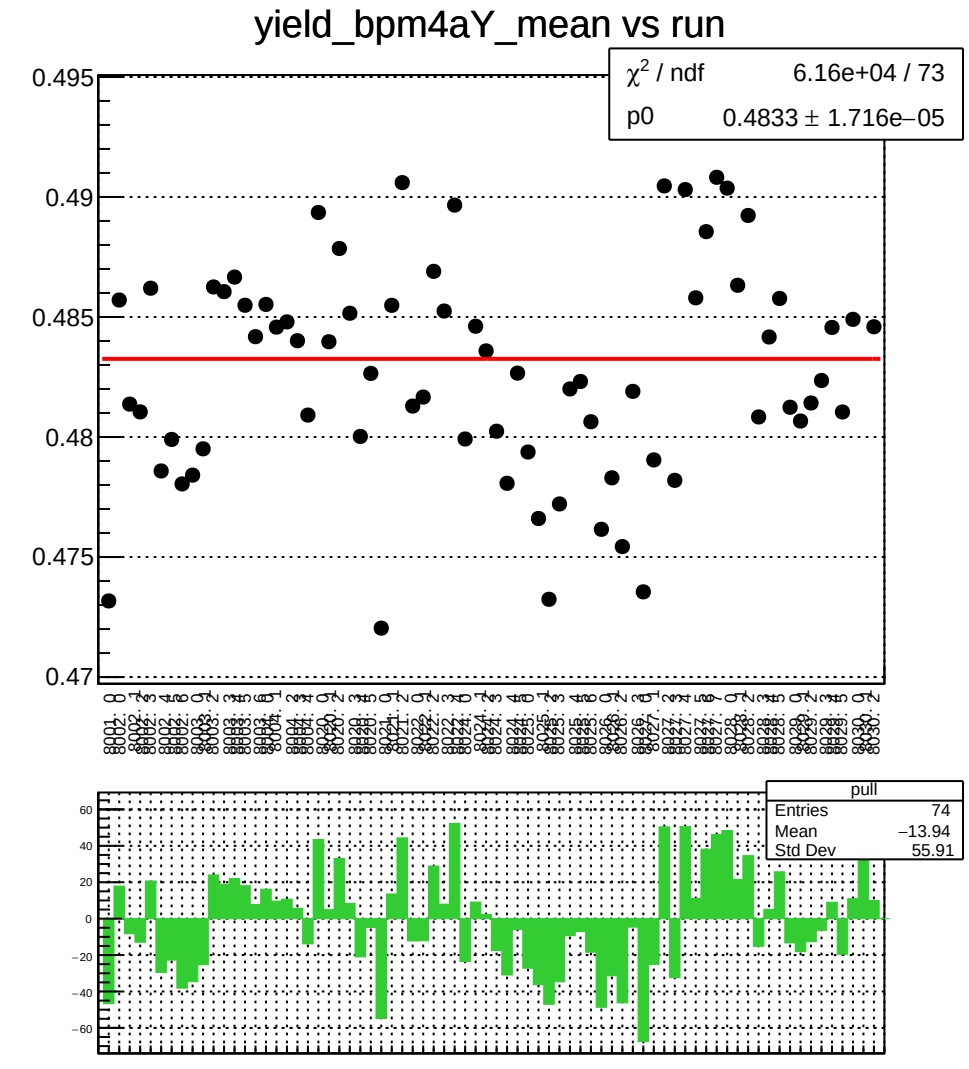

pull1D
Entries 74
Mean 0.8497
Std Dev 4.871
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

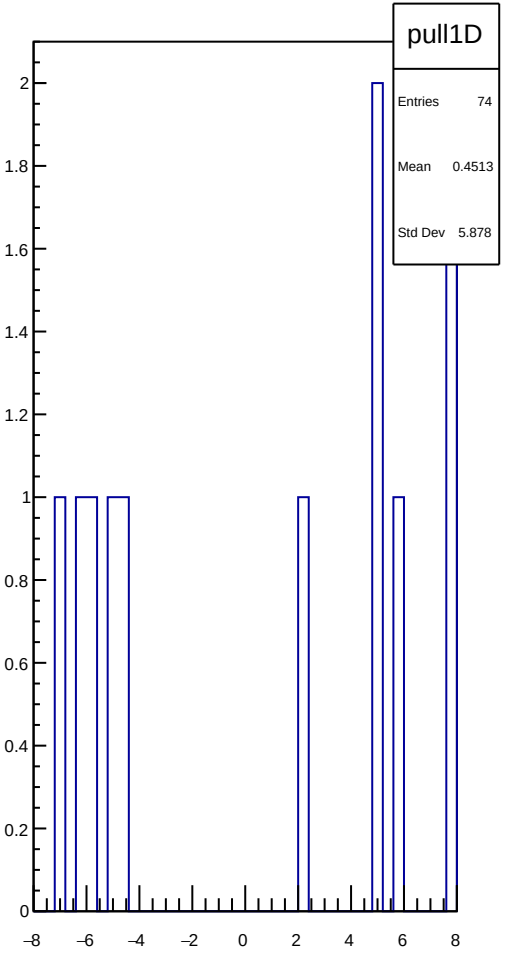

yield_cav4dY_rms vs run
χ² / ndf 3.434e+04 / 73
p0 0.3213 ± 0.0002704
0.7
0.6
0.5
0.4
0.3

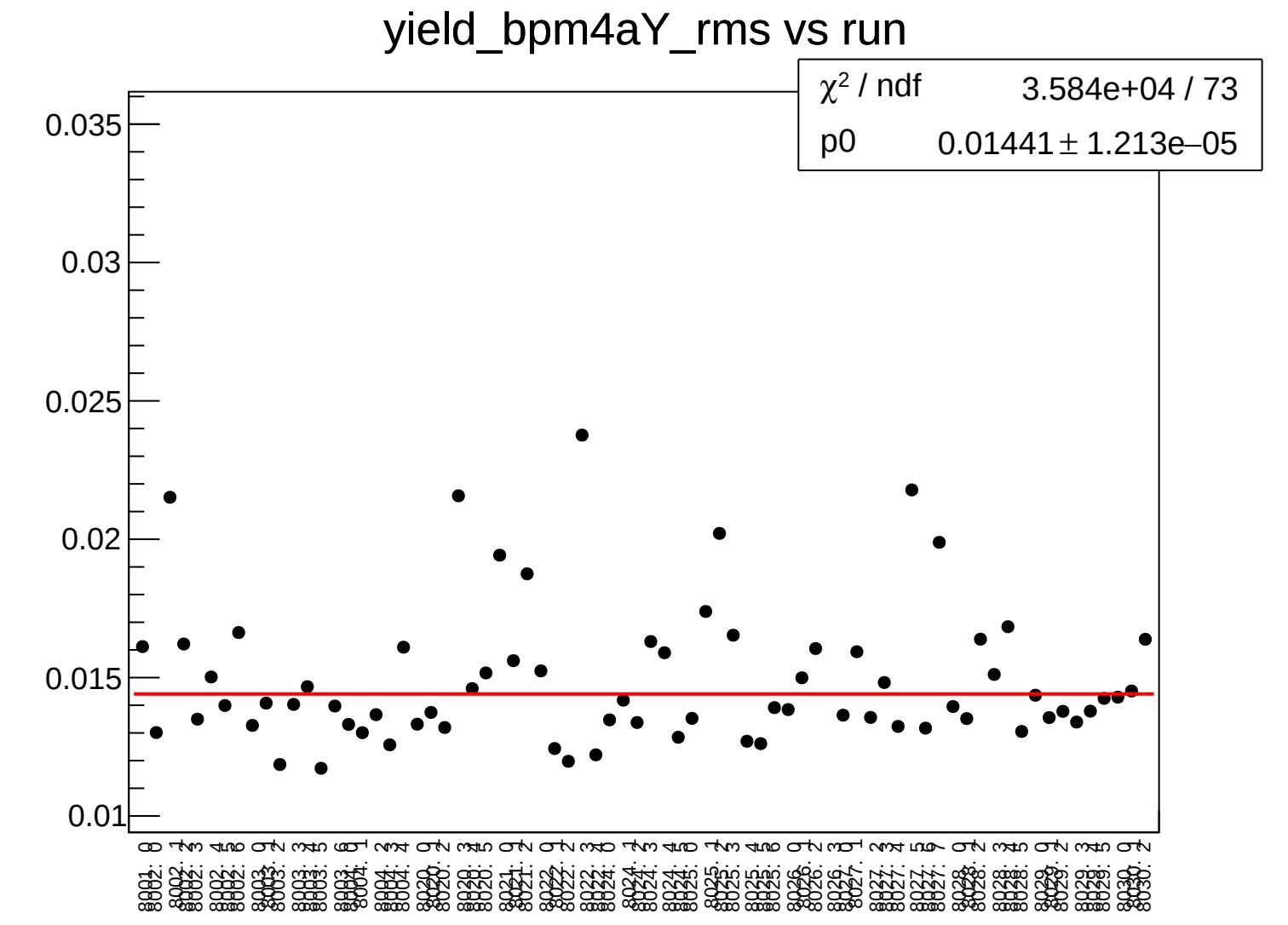

yield_bpm4aX_mean vs run
χ² / ndf 5.728e+04 / 73
p0 −0.5702 ± 6.551e−05
−0.53
−0.54
−0.55
−0.56
−0.57
−0.58
−0.59
−0.6
−0.61
pull
Entries 74
Mean −125.3
Std Dev 145.1
60
40
20
0
−20
−40
−60

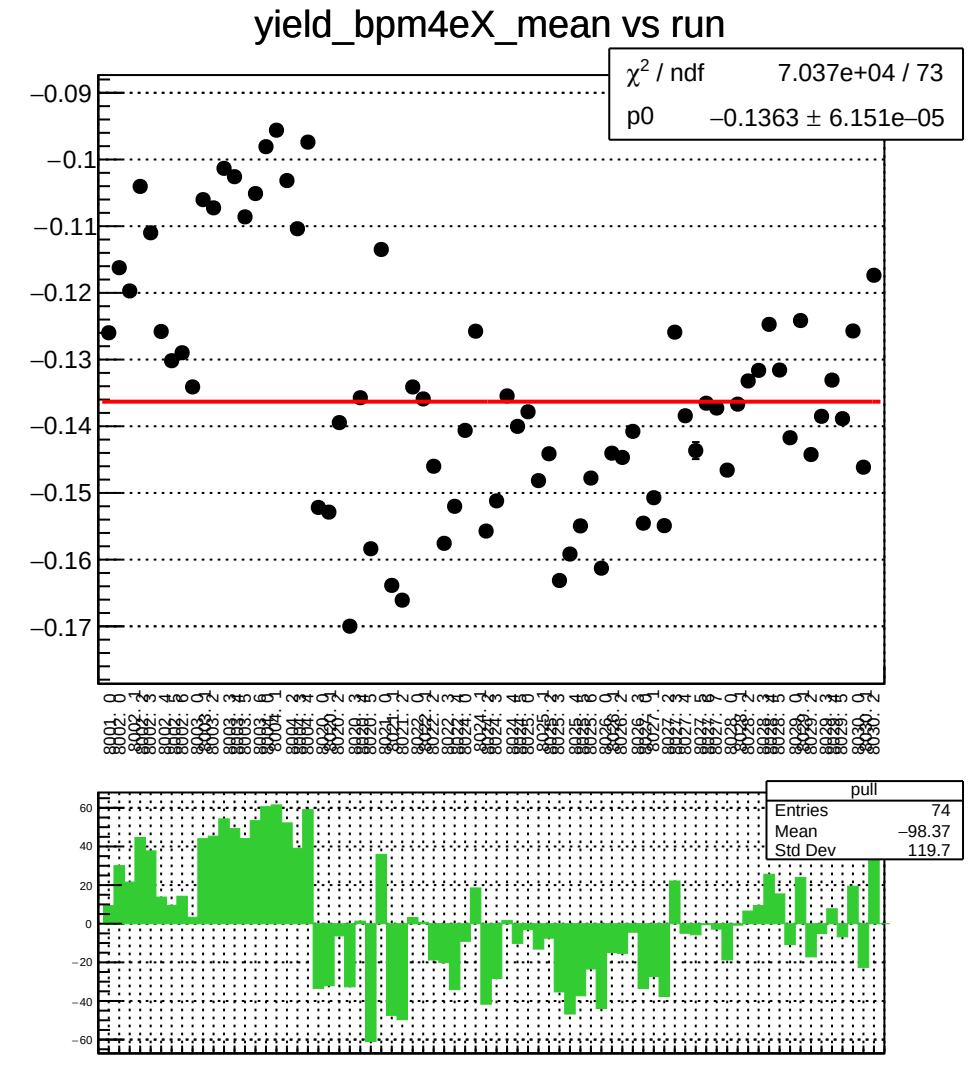

pull1D
Entries 74
Mean −0.5857
Std Dev 4.713
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

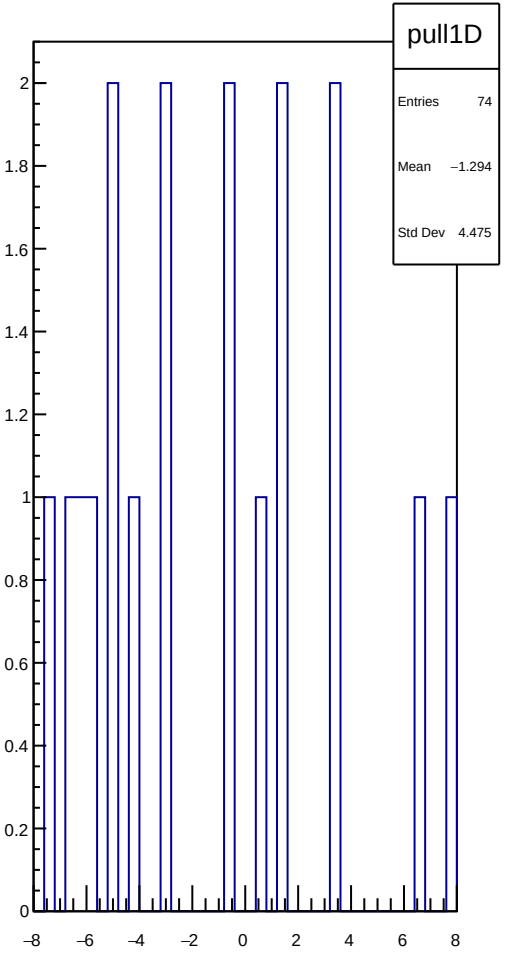

yield_bpm4aX_rms vs run
χ² / ndf 6.027e+04 / 73
p0 0.05453 ± 4.632e–05
0.12
0.1
0.08
0.06
0.04

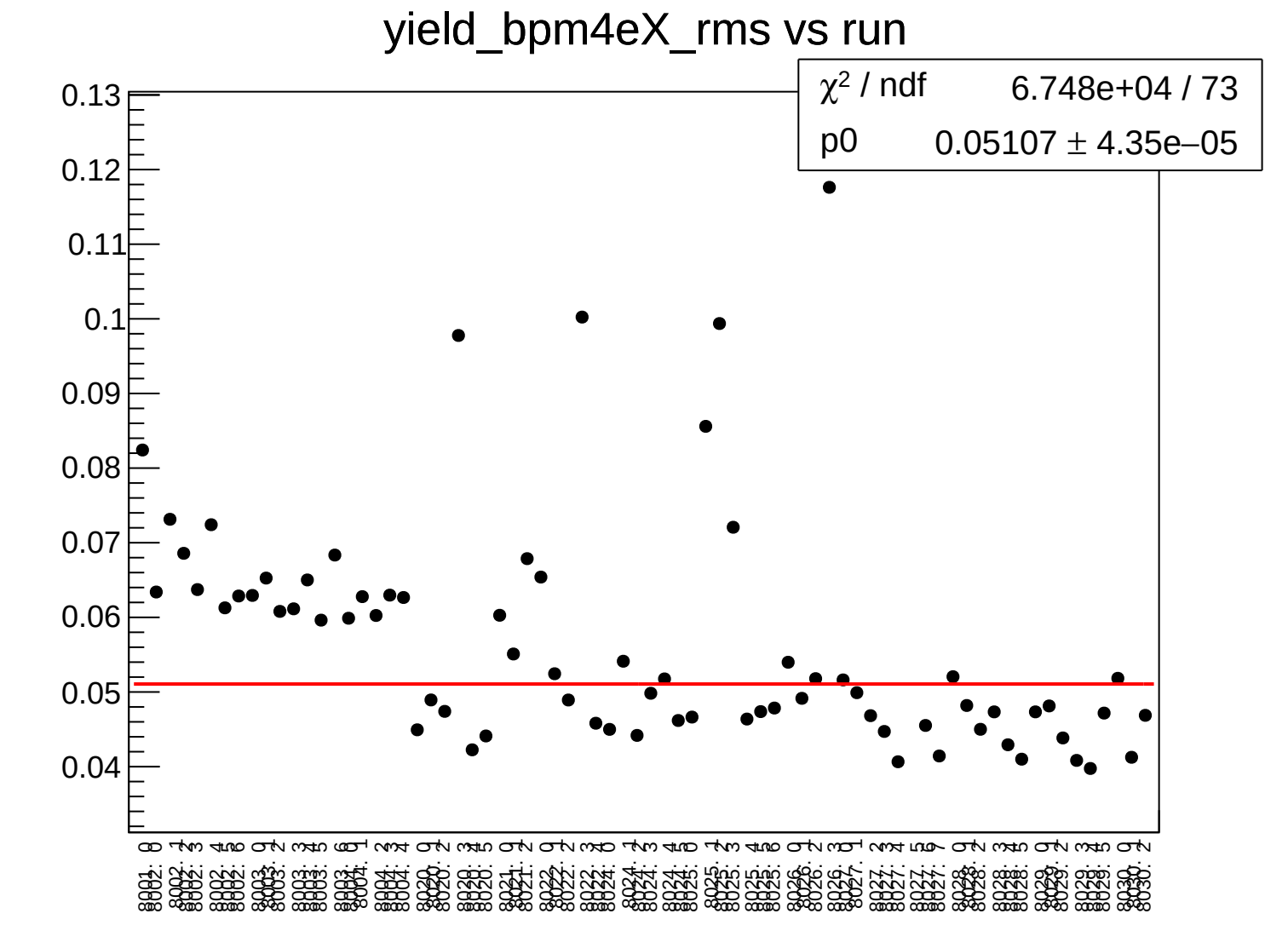

yield_bpm4aY_mean vs run
χ² / ndf 6.16e+04 / 73
p0 0.4833 ± 1.716e−05
0.495
0.49
0.485
0.48
0.475
0.47
pull
Entries 74
Mean −13.94
Std Dev 55.91
60
40
20
0
−20
−40
−60

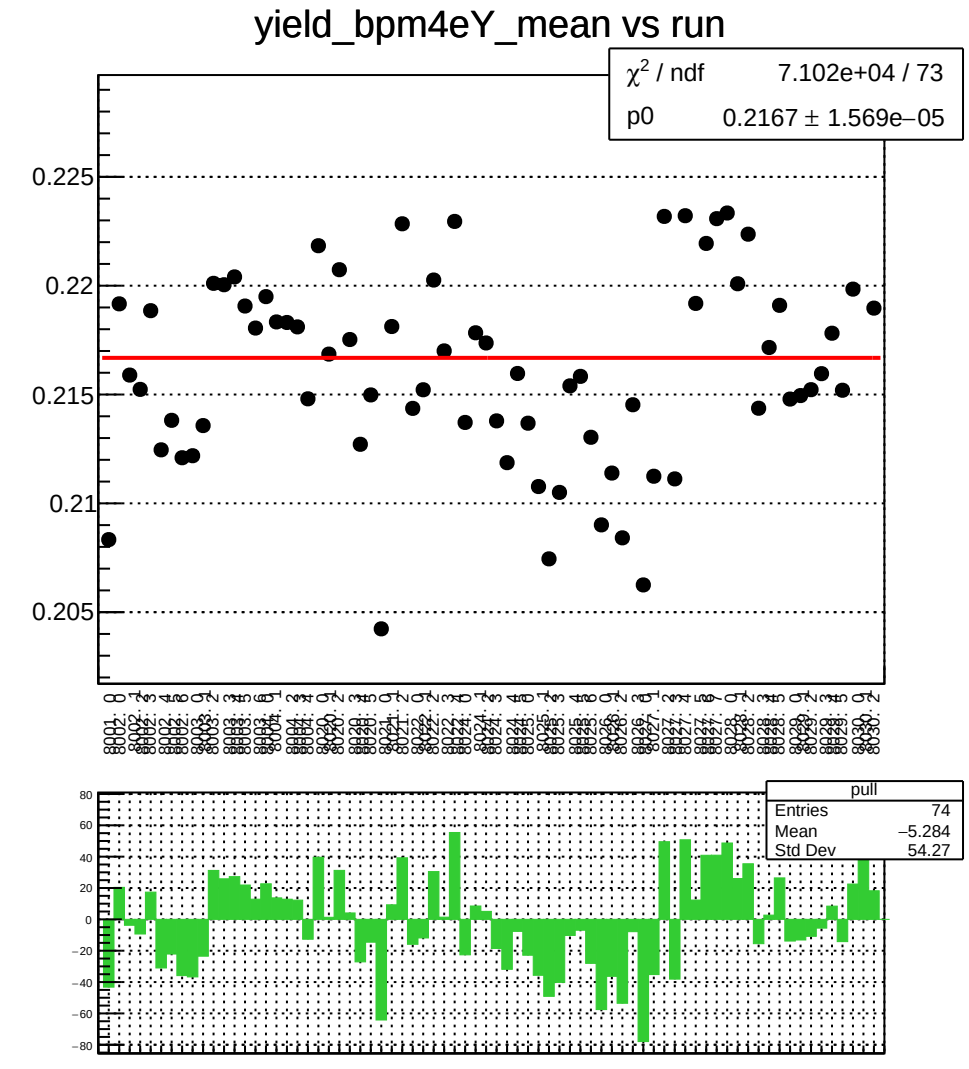

pull1D
Entries 74
Mean 0.4513
Std Dev 5.878
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

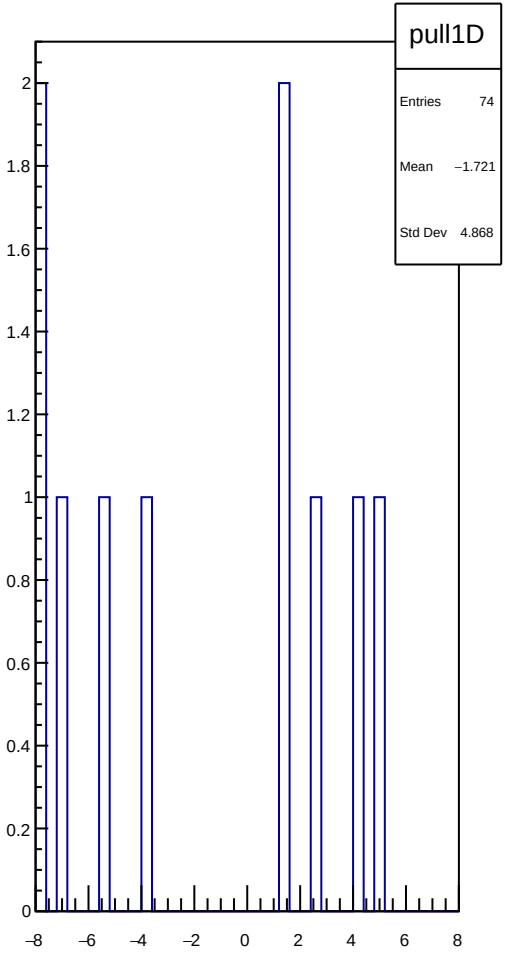

yield_bpm4aY_rms vs run
χ² / ndf 3.584e+04 / 73
p0 0.01441 ± 1.213e–05
0.035
0.03
0.025
0.02
0.015
0.01

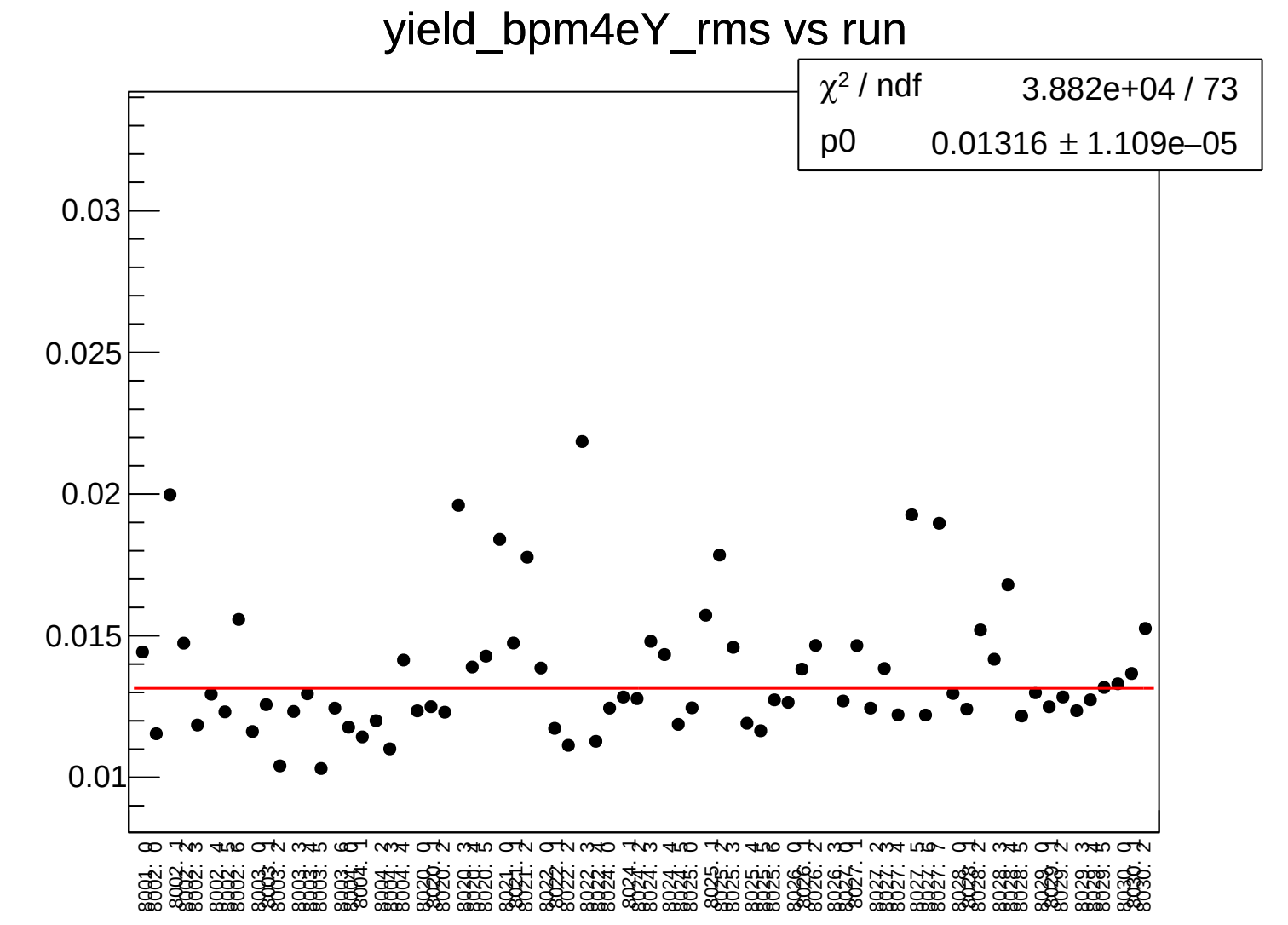

yield_bpm4eX_mean vs run
χ² / ndf 7.037e+04 / 73
p0 −0.1363 ± 6.151e−05
pull
Entries 74
Mean −98.37
Std Dev 119.7

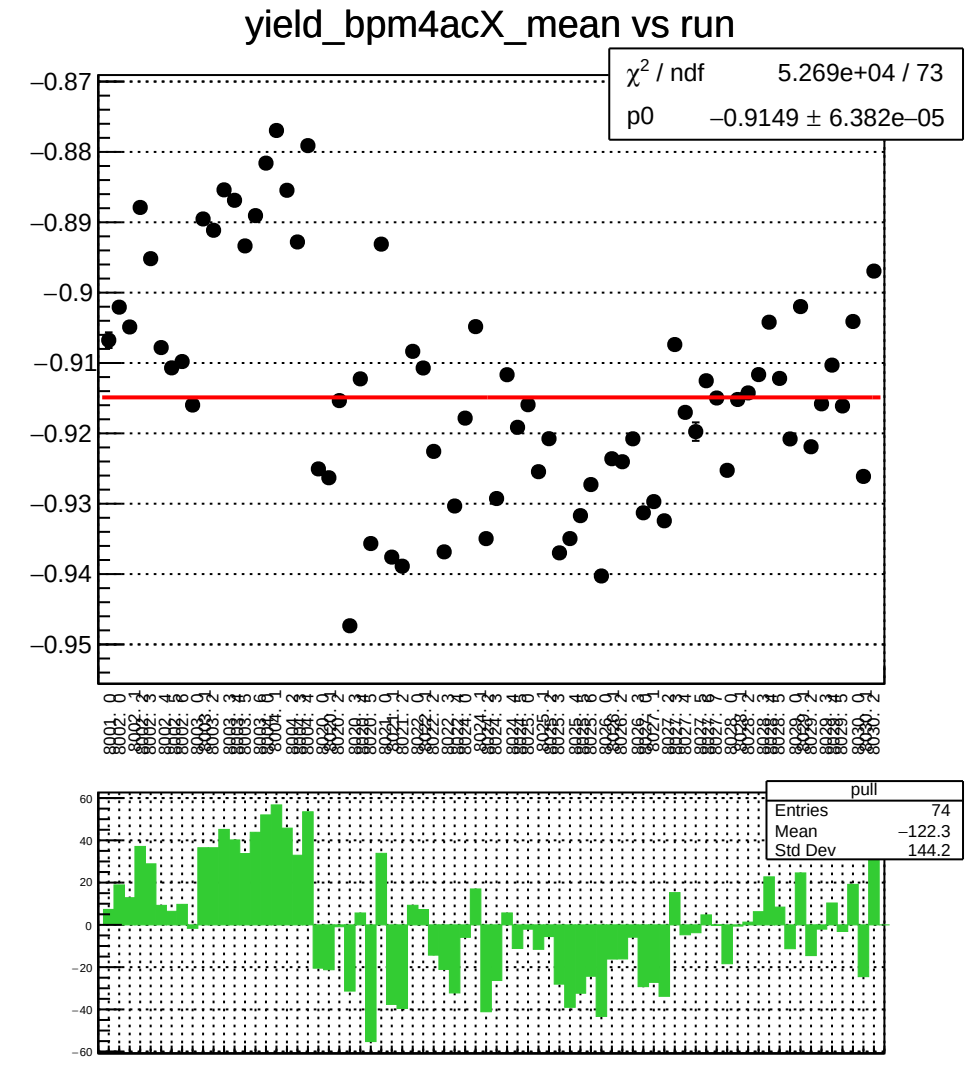

pull1D
Entries 74
Mean −1.294
Std Dev 4.475

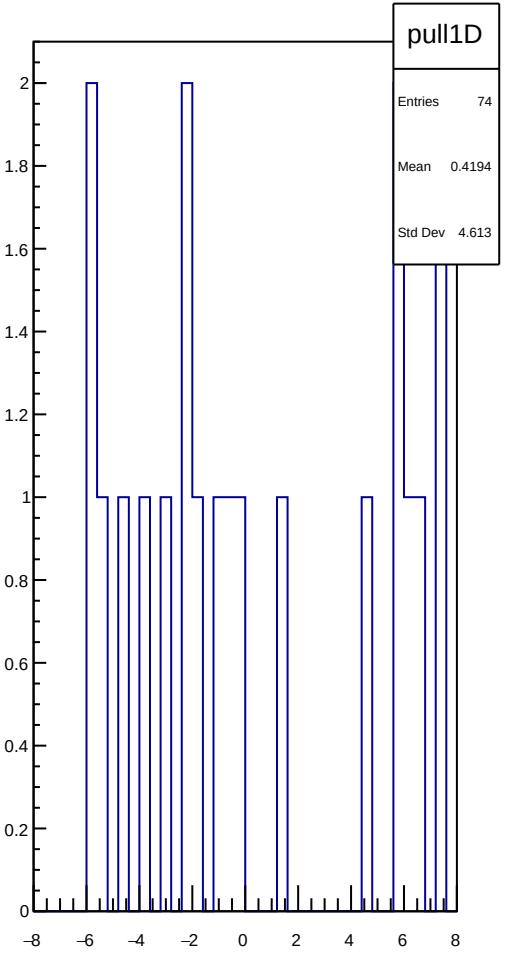

yield_bpm4eX_rms vs run
χ² / ndf 6.748e+04 / 73
p0 0.05107 ± 4.35e−05
0.13
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

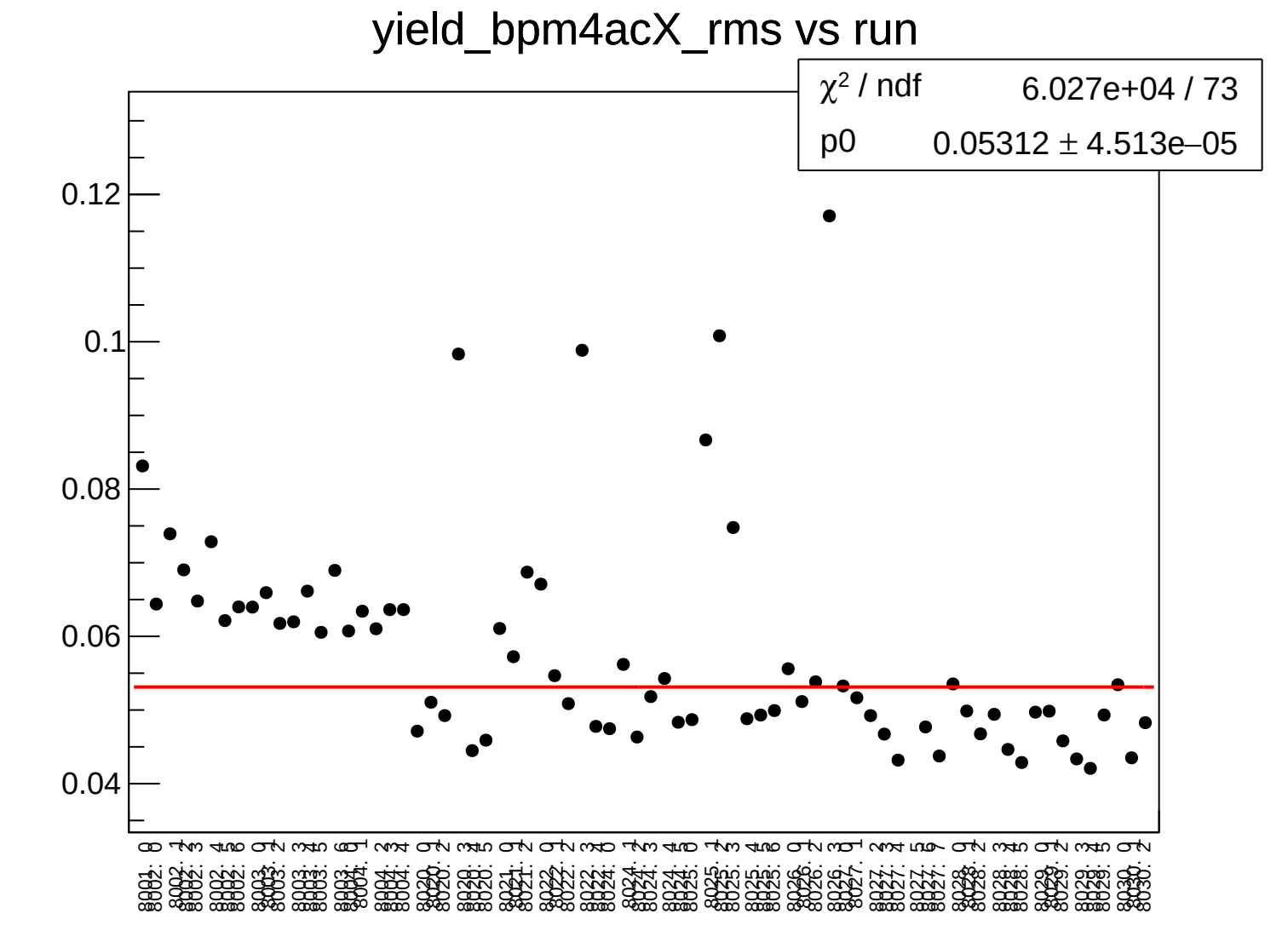

yield_bpm4eY_mean vs run
χ² / ndf 7.102e+04 / 73
p0 0.2167 ± 1.569e−05
0.225
0.22
0.215
0.21
0.205
pull
Entries 74
Mean −5.284
Std Dev 54.27
80
60
40
20
0
−20
−40
−60
−80

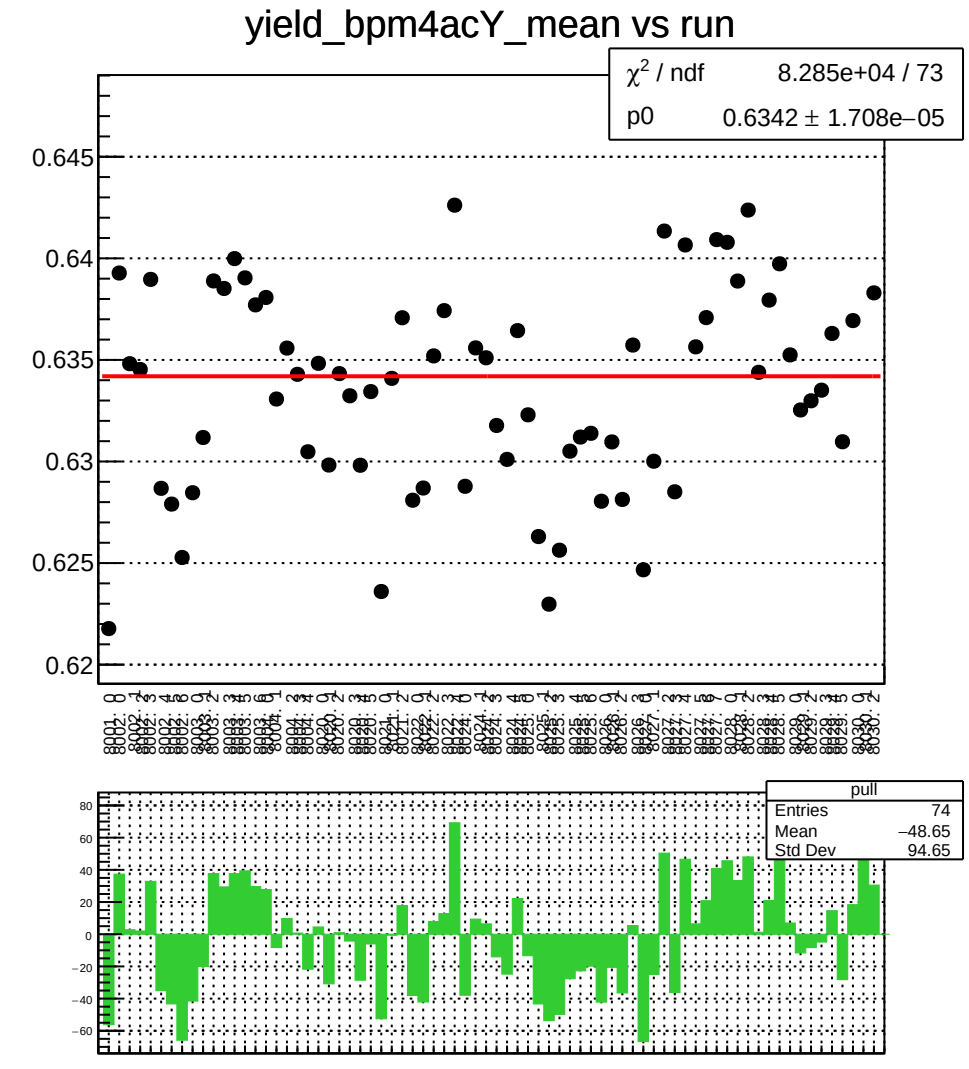

pull1D
Entries 74
Mean −1.721
Std Dev 4.868
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

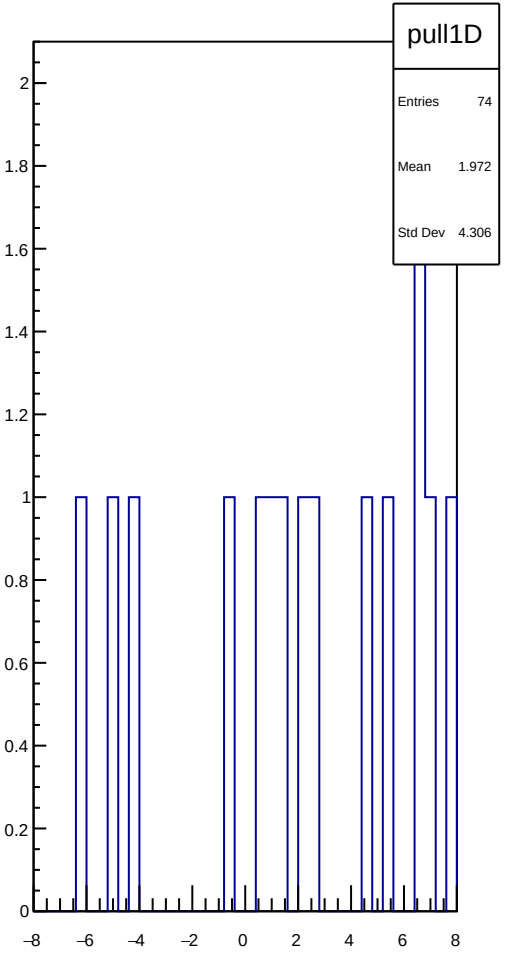

yield_bpm4eY_rms vs run
χ² / ndf 3.882e+04 / 73
p0 0.01316 ± 1.109e–05
0.03
0.025
0.02
0.015
0.01

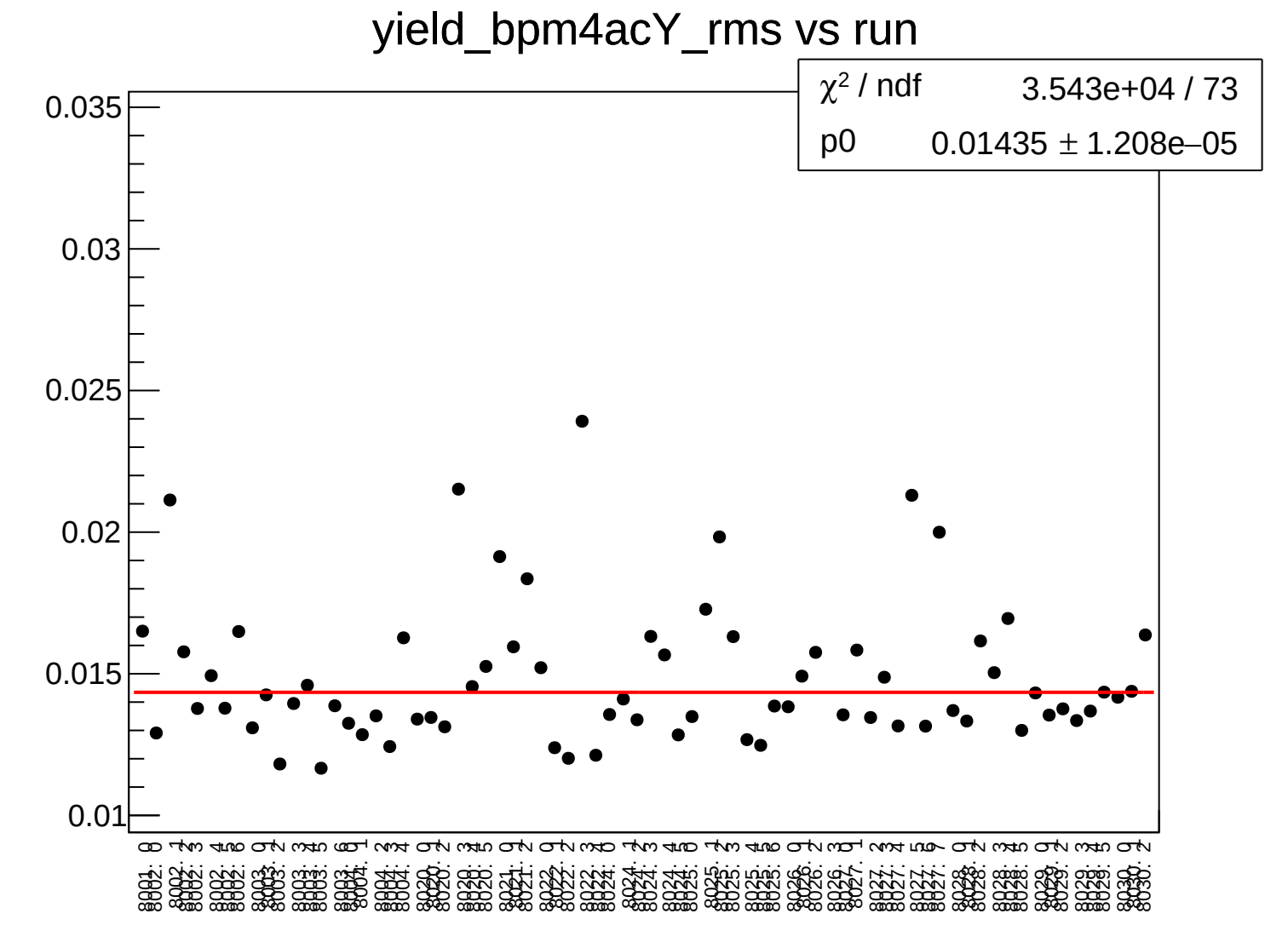

yield_bpm4acX_mean vs run
χ² / ndf 5.269e+04 / 73
p0 −0.9149 ± 6.382e−05
pull
Entries 74
Mean −122.3
Std Dev 144.2

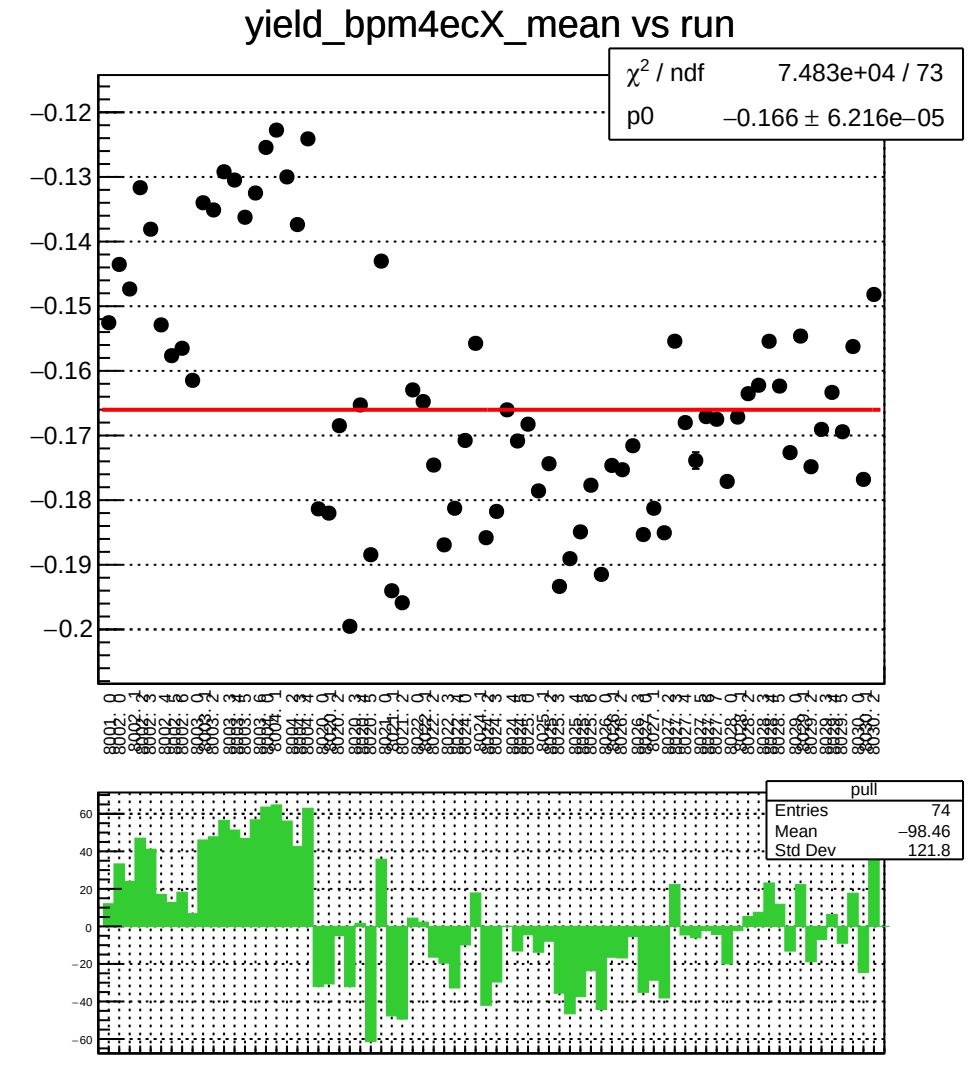

pull1D
Entries 74
Mean 0.4194
Std Dev 4.613

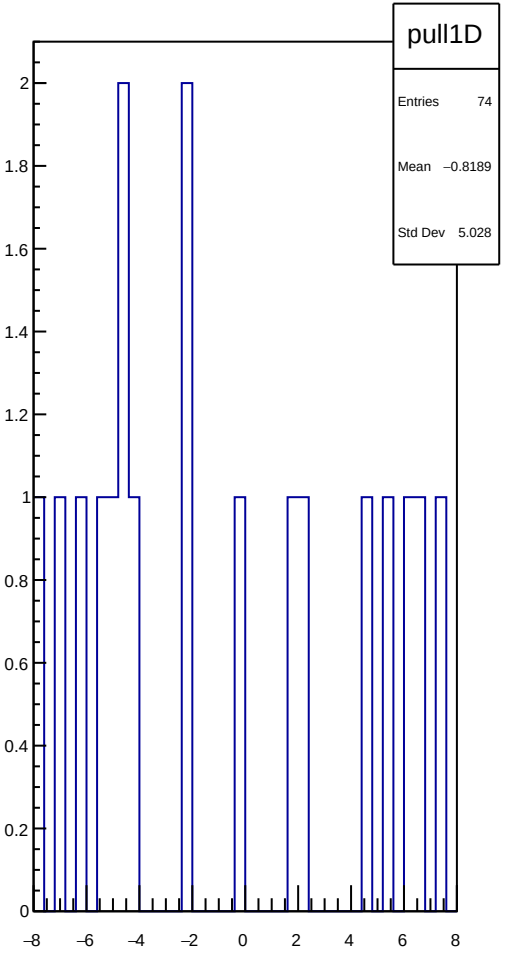

yield_bpm4acX_rms vs run
χ² / ndf 6.027e+04 / 73
p0 0.05312 ± 4.513e–05
0.12
0.1
0.08
0.06
0.04

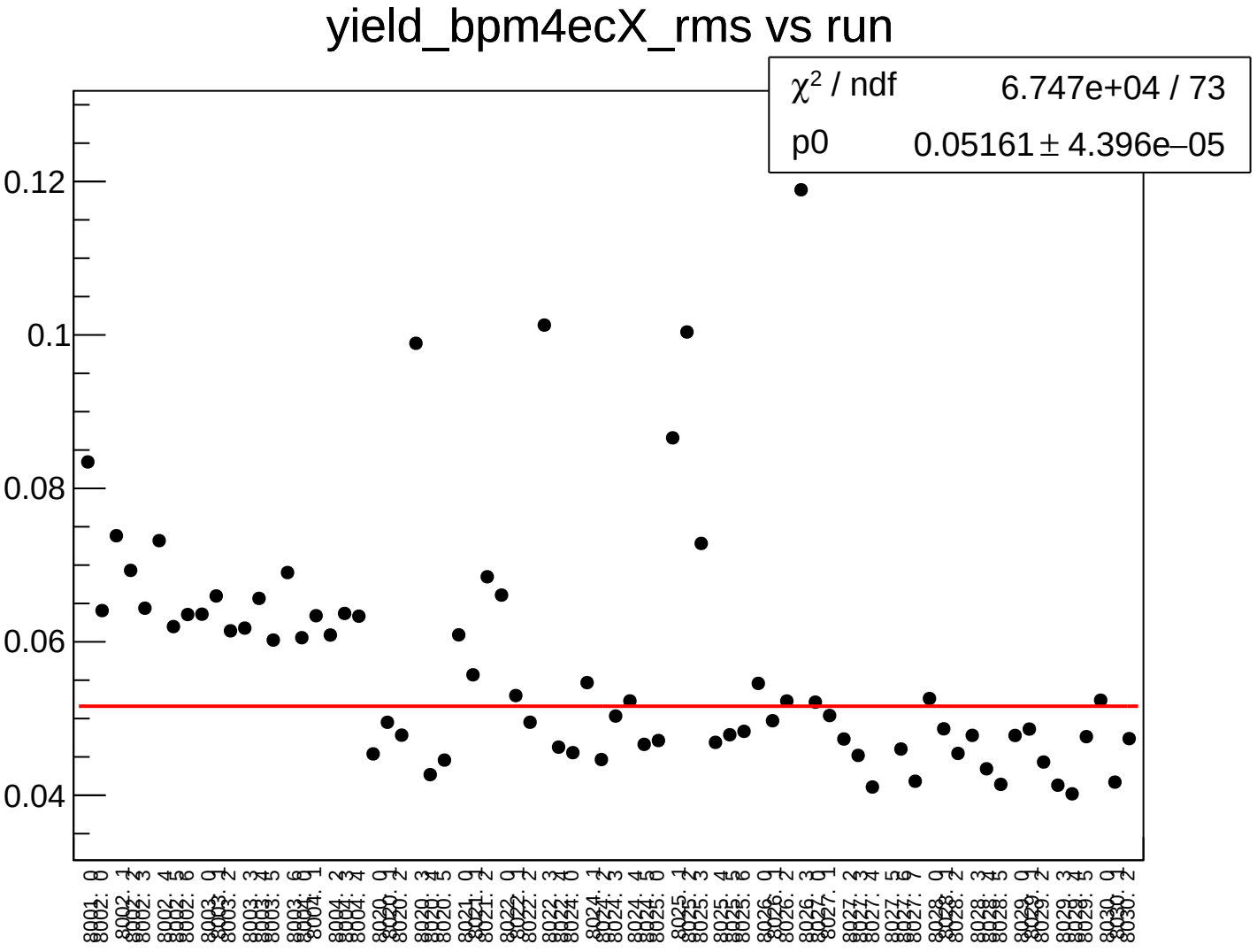

yield_bpm4acY_mean vs run
χ² / ndf 8.285e+04 / 73
p0 0.6342 ± 1.708e−05
0.645
0.64
0.635
0.63
0.625
0.62
pull
Entries 74
Mean −48.65
Std Dev 94.65
80
60
40
20
0
−20
−40
−60

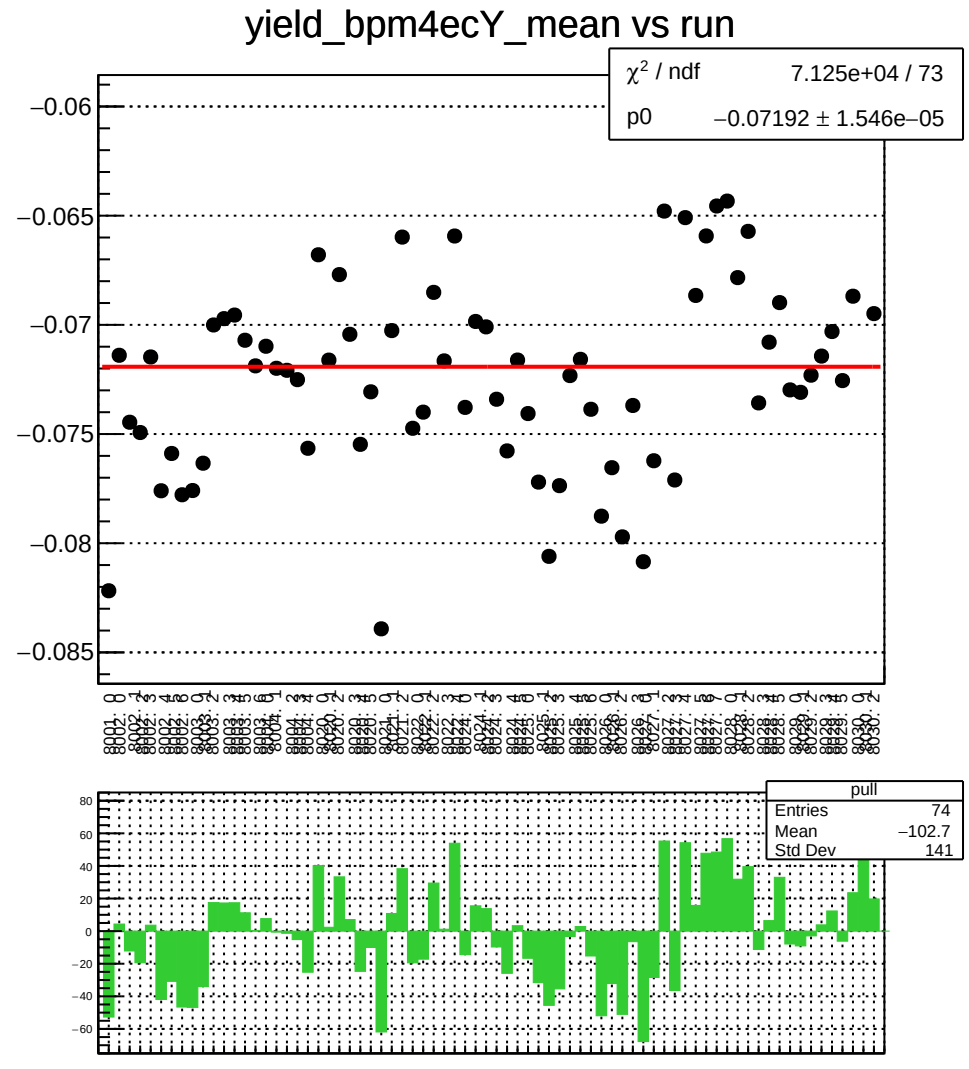

pull1D
Entries 74
Mean 1.972
Std Dev 4.306
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

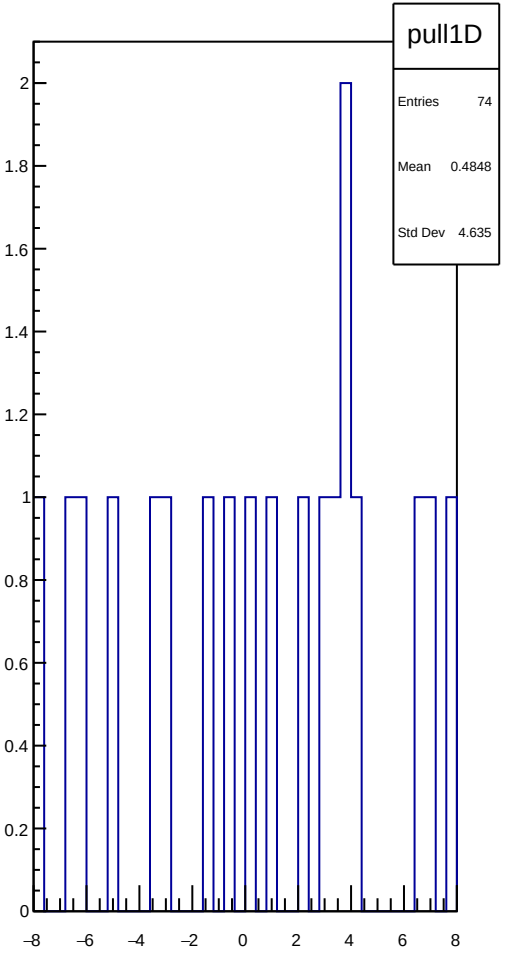

yield_bpm4acY_rms vs run
χ² / ndf 3.543e+04 / 73
p0 0.01435 ± 1.208e–05
0.035
0.03
0.025
0.02
0.015
0.01

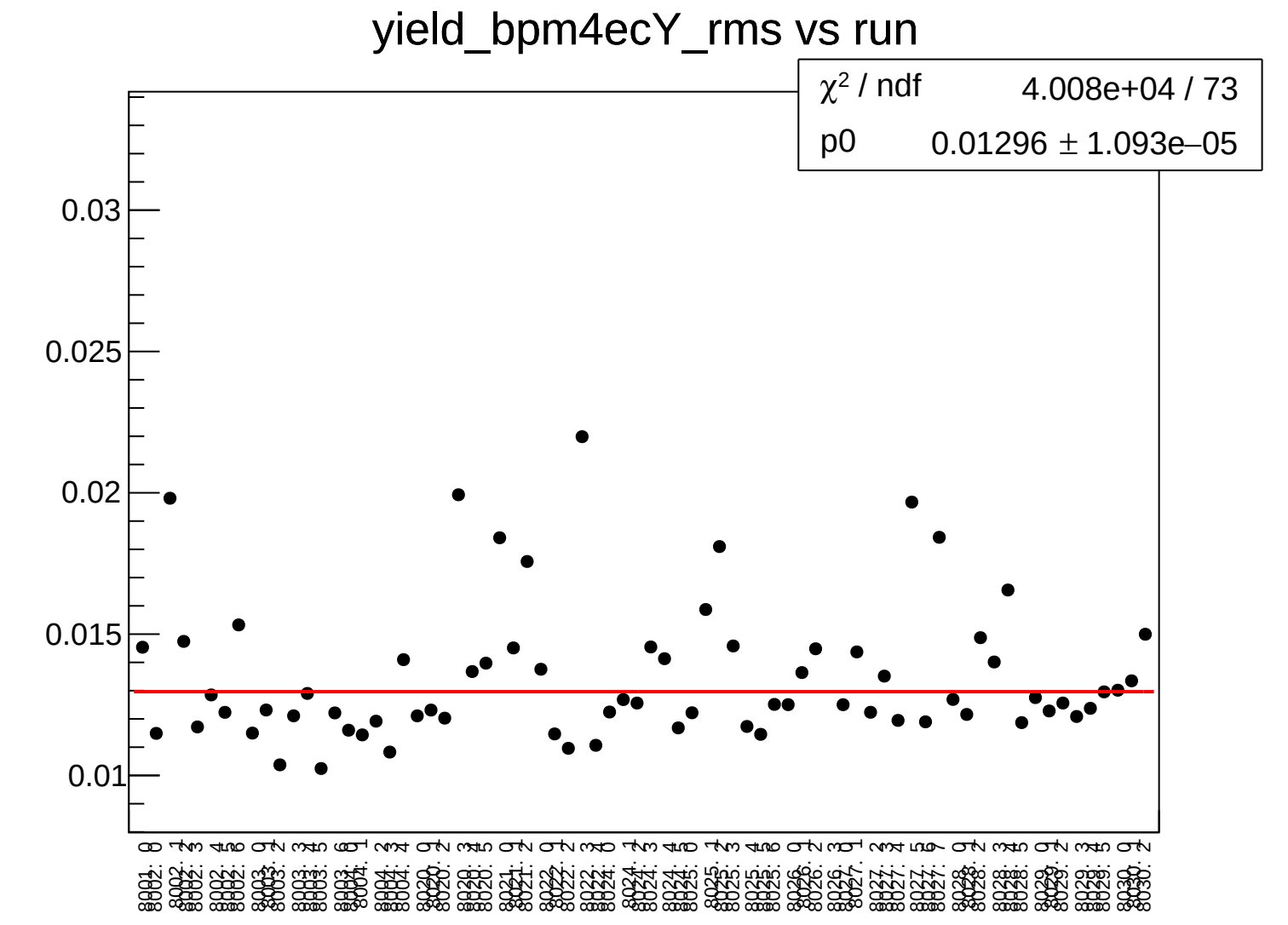

yield_bpm4ecX_mean vs run
χ² / ndf 7.483e+04 / 73
p0 −0.166 ± 6.216e−05
−0.12
−0.13
−0.14
−0.15
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 74
Mean −98.46
Std Dev 121.8
60
40
20
0
−20
−40
−60

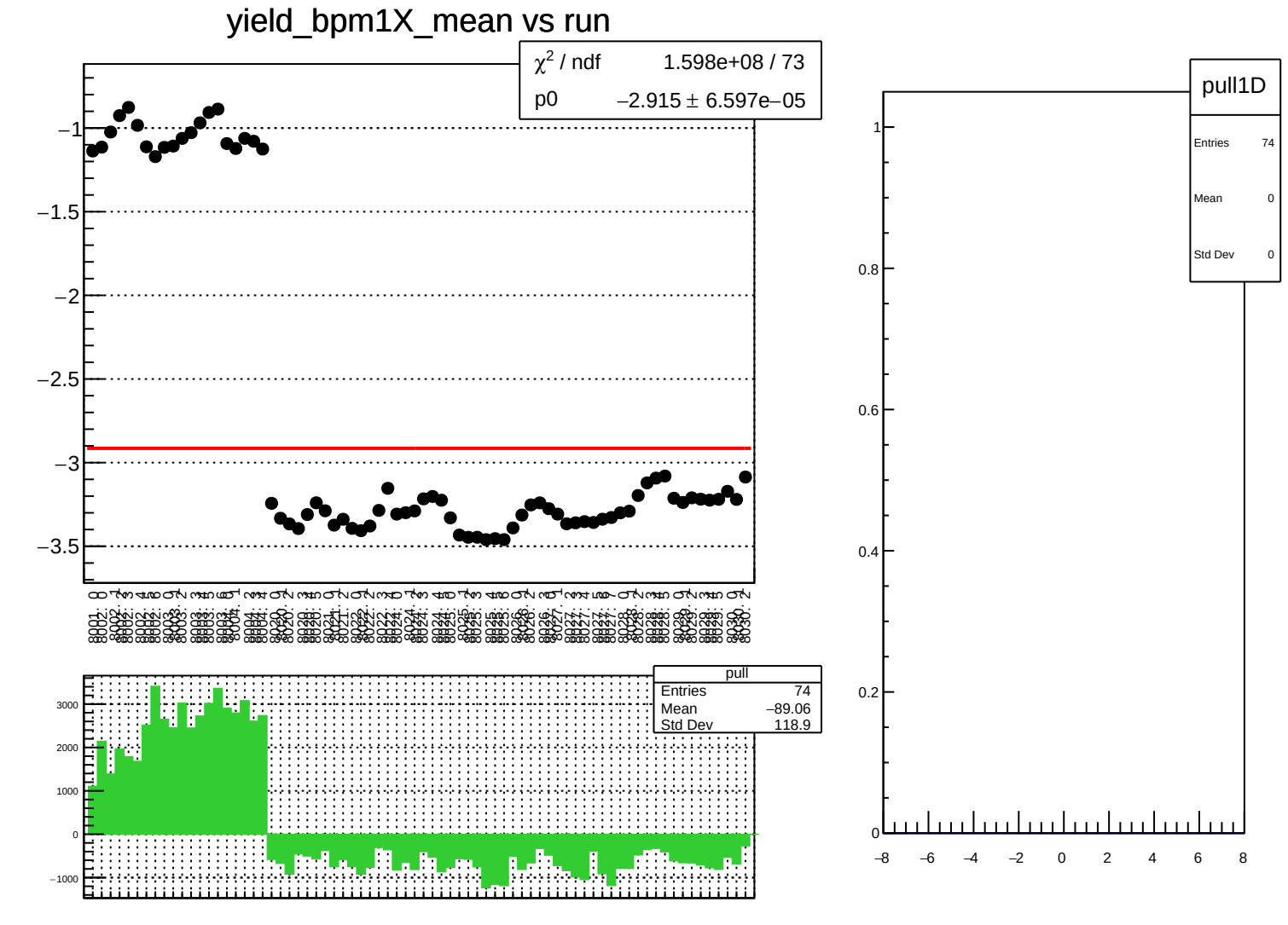

pull1D
Entries 74
Mean −0.8189
Std Dev 5.028
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

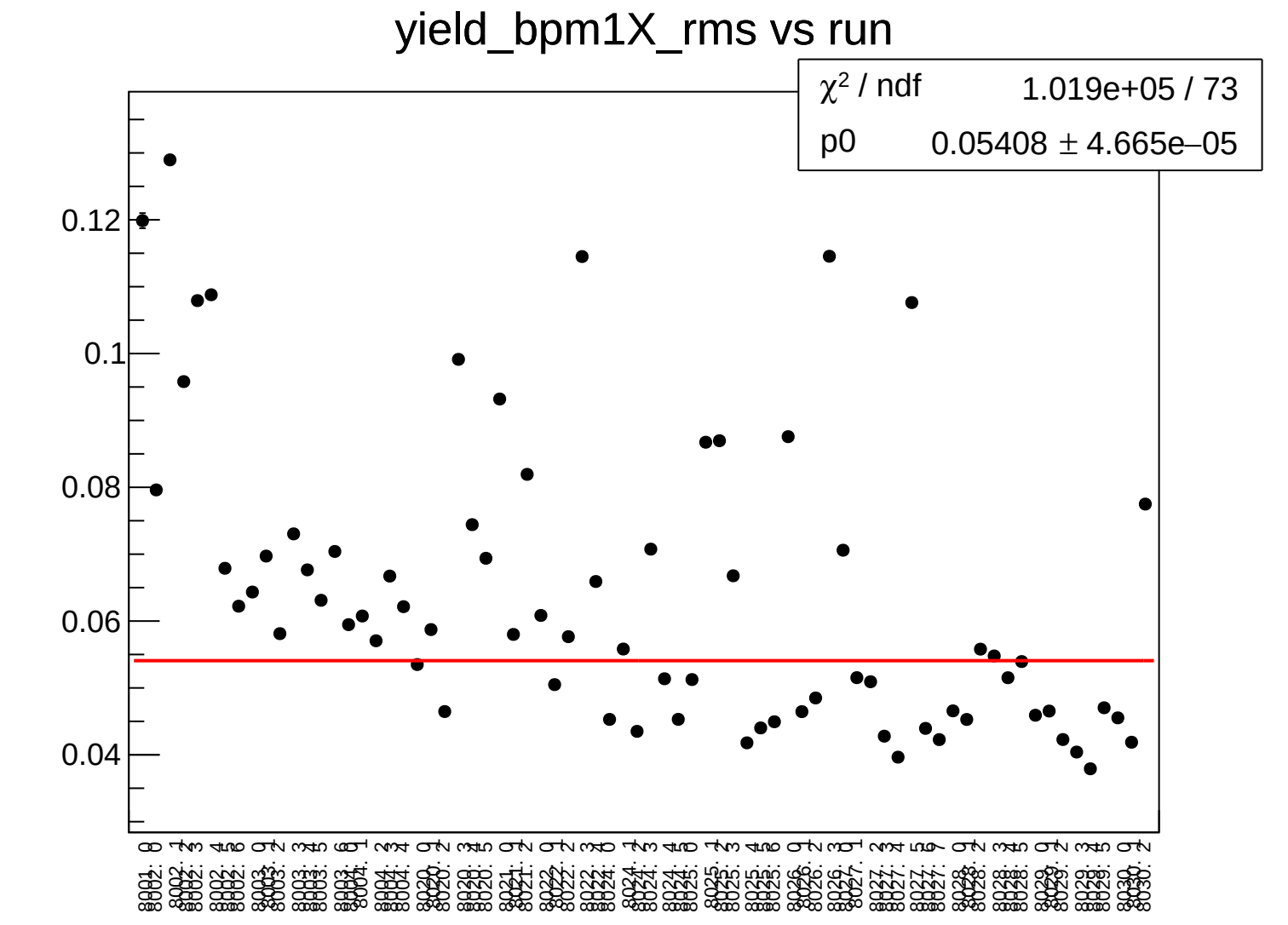

yield_bpm4ecX_rms vs run
χ² / ndf 6.747e+04 / 73
p0 0.05161 ± 4.396e–05
0.12
0.1
0.08
0.06
0.04

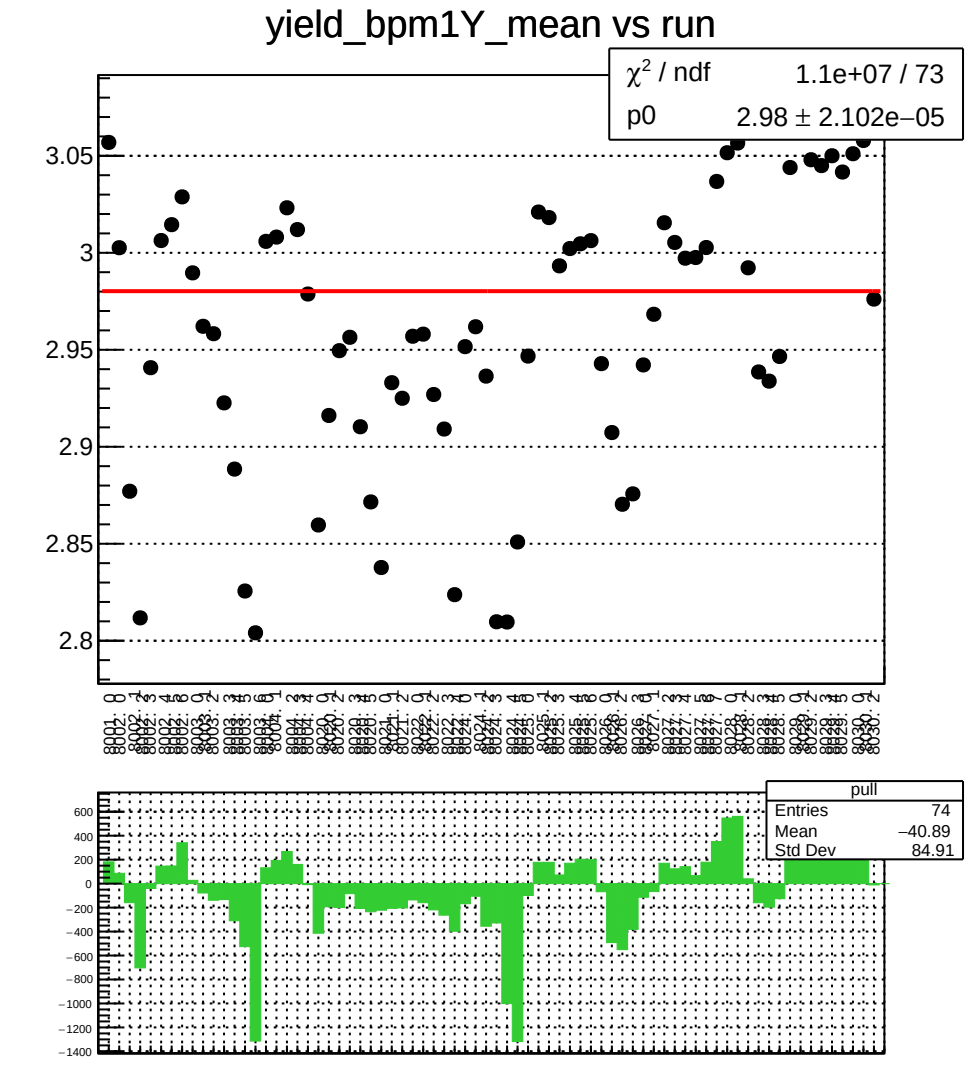

yield_bpm4ecY_mean vs run
χ² / ndf 7.125e+04 / 73
p0 −0.07192 ± 1.546e−05
−0.06
−0.065
−0.07
−0.075
−0.08
−0.085
pull
Entries 74
Mean −102.7
Std Dev 141
80
60
40
20
0
−20
−40
−60

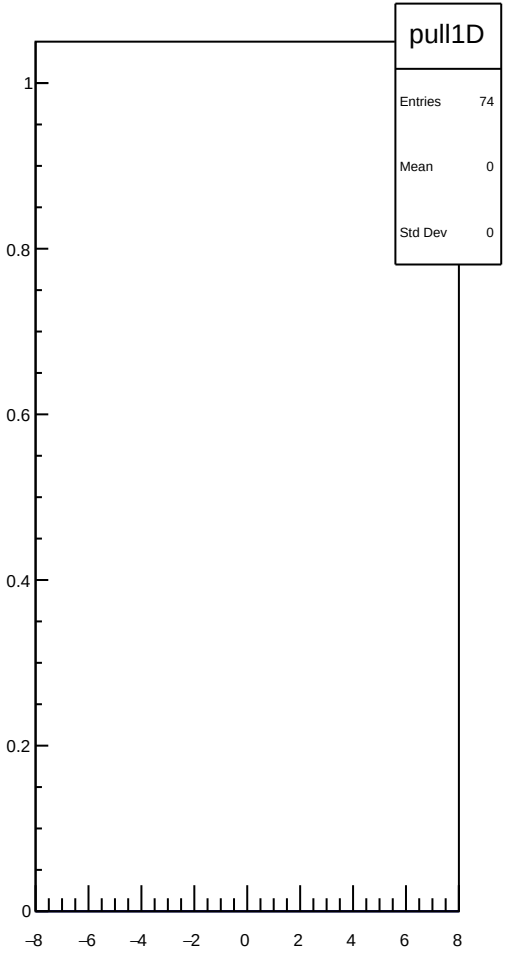

pull1D
Entries 74
Mean 0.4848
Std Dev 4.635
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

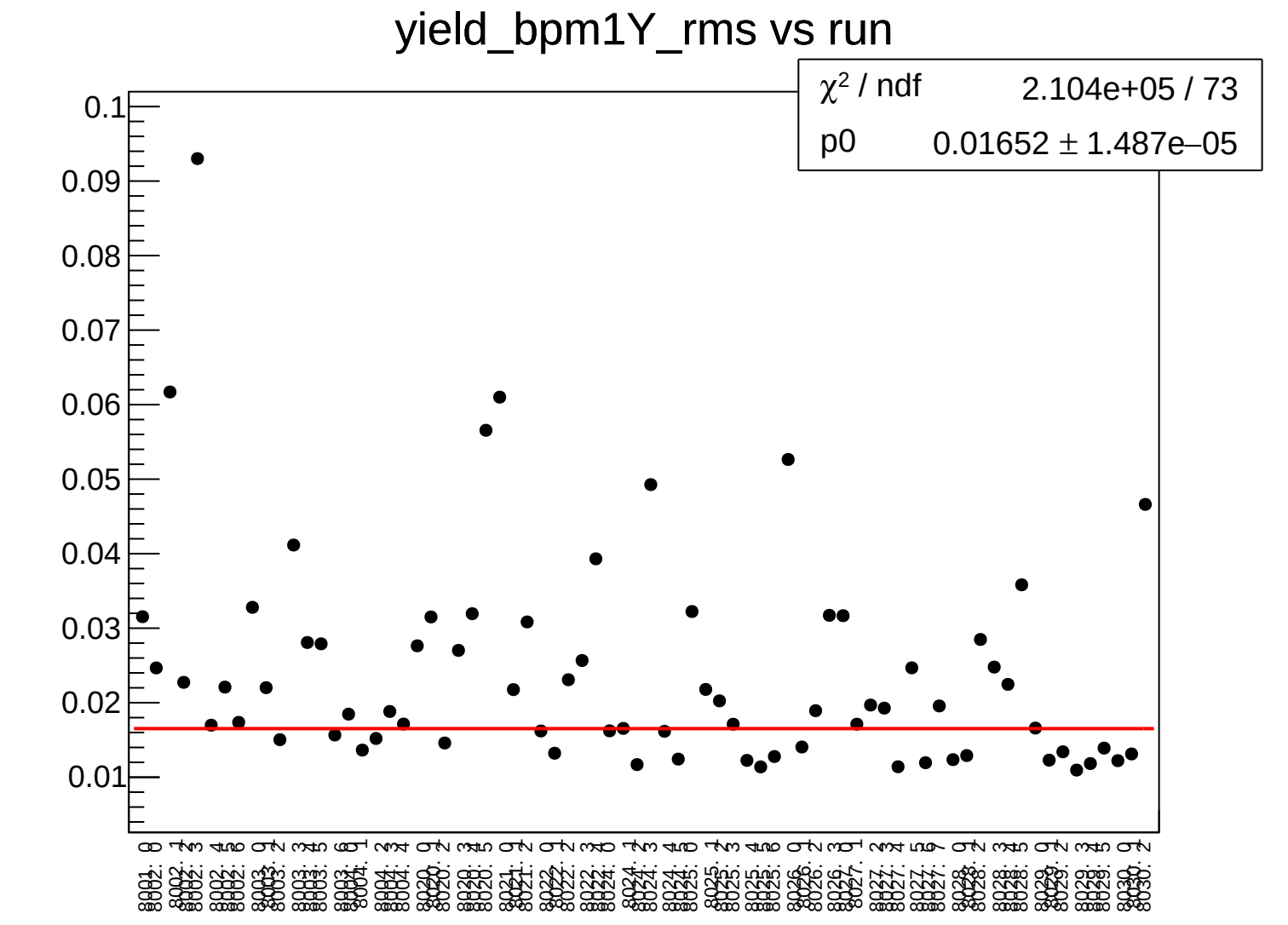

yield_bpm4ecY_rms vs run
χ² / ndf 4.008e+04 / 73
p0 0.01296 ± 1.093e–05
0.03
0.025
0.02
0.015
0.01

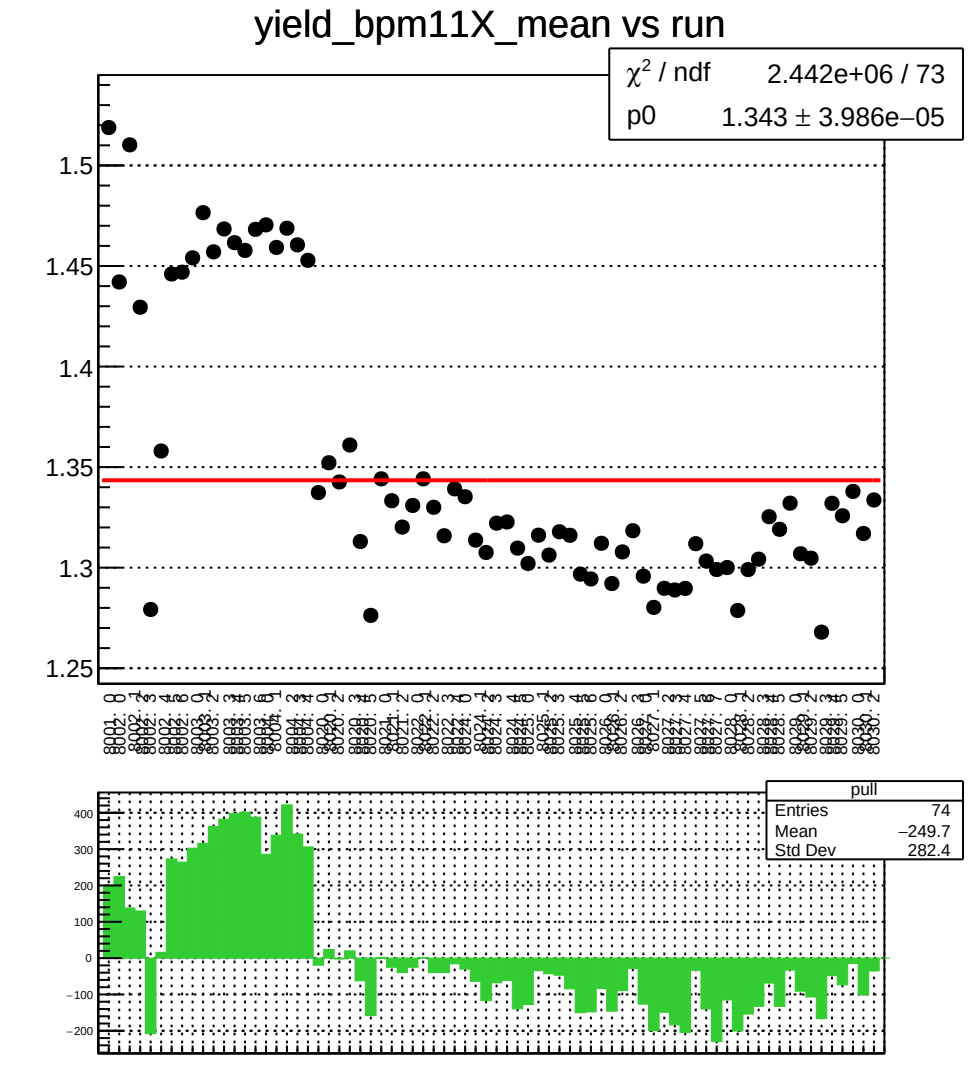

yield_bpm1X_mean vs run
χ² / ndf 1.598e+08 / 73
p0 −2.915 ± 6.597e−05
−1
−1.5
−2
−2.5
−3
−3.5
pull
Entries 74
Mean −89.06
Std Dev 118.9
3000
2000
1000
0
−1000
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

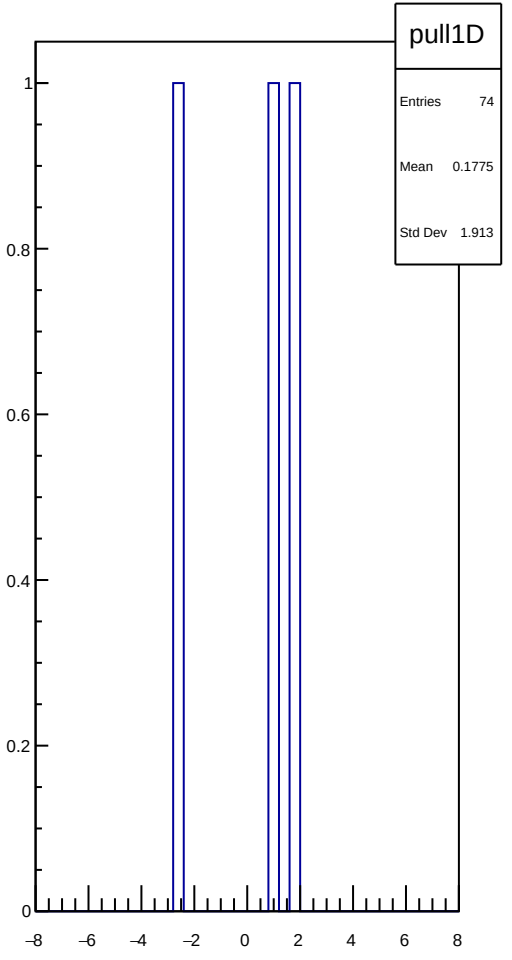

yield_bpm1X_rms vs run
χ² / ndf 1.019e+05 / 73
p0 0.05408 ± 4.665e–05
0.12
0.1
0.08
0.06
0.04

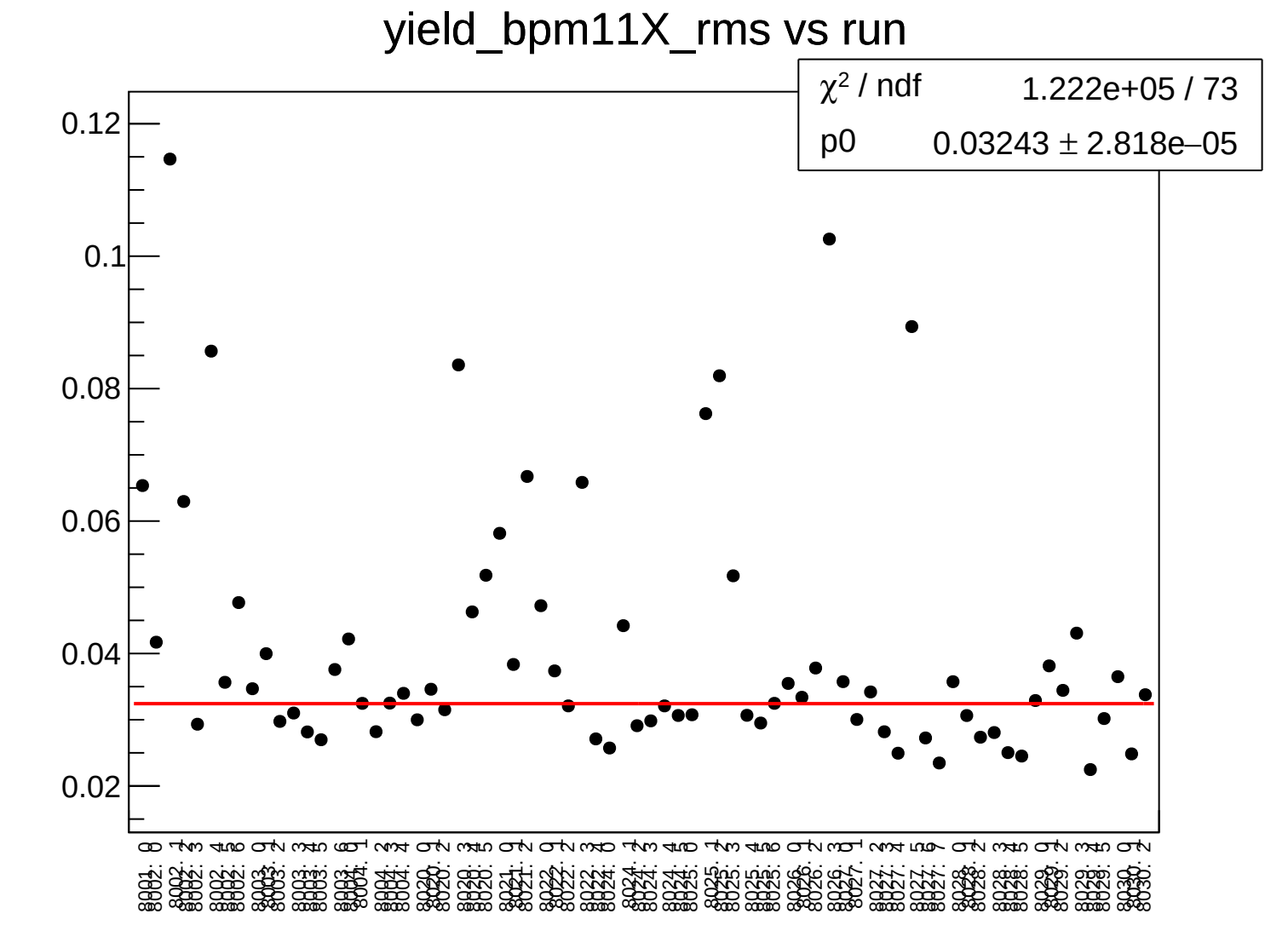

yield_bpm1Y_mean vs run
χ² / ndf 1.1e+07 / 73
p0 2.98 ± 2.102e−05
3.05
3
2.95
2.9
2.85
2.8
pull
Entries 74
Mean −40.89
Std Dev 84.91
600
400
200
0
−200
−400
−600
−800
−1000
−1200
−1400

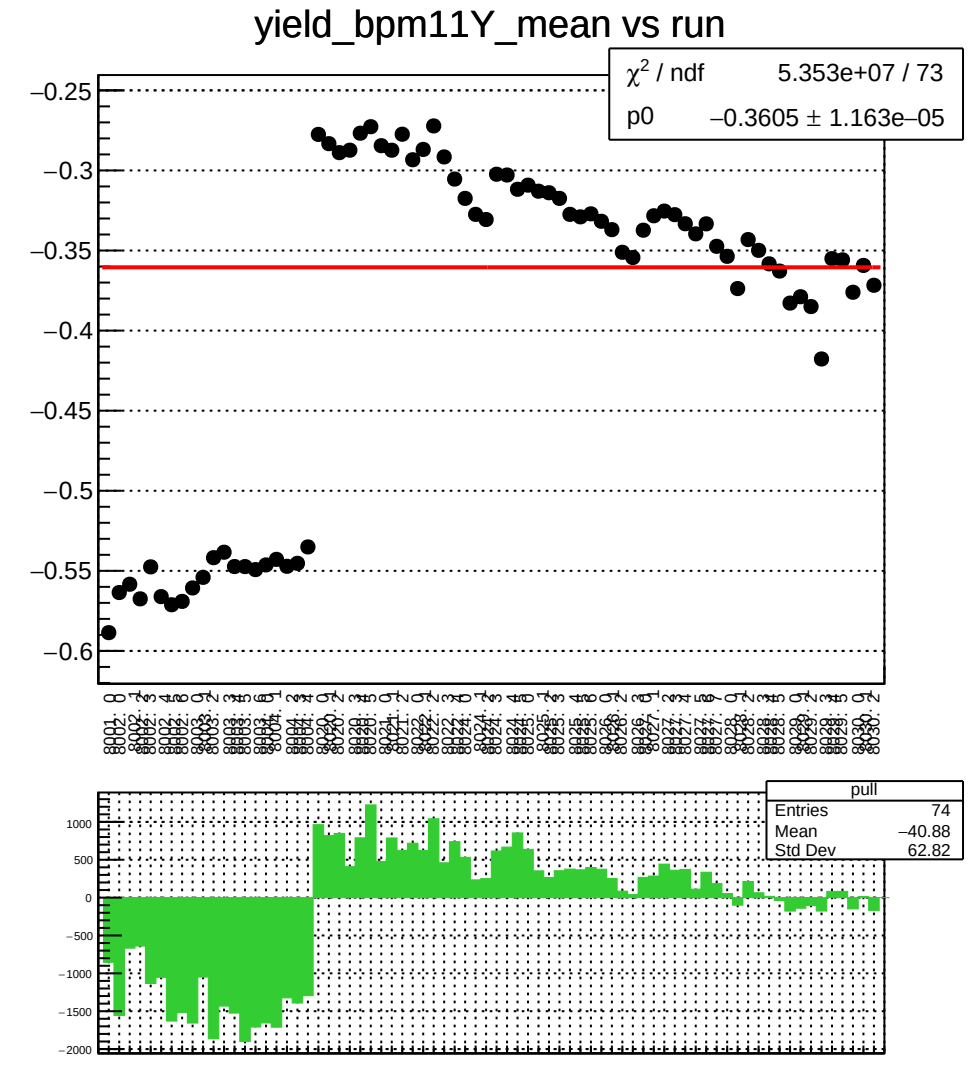

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

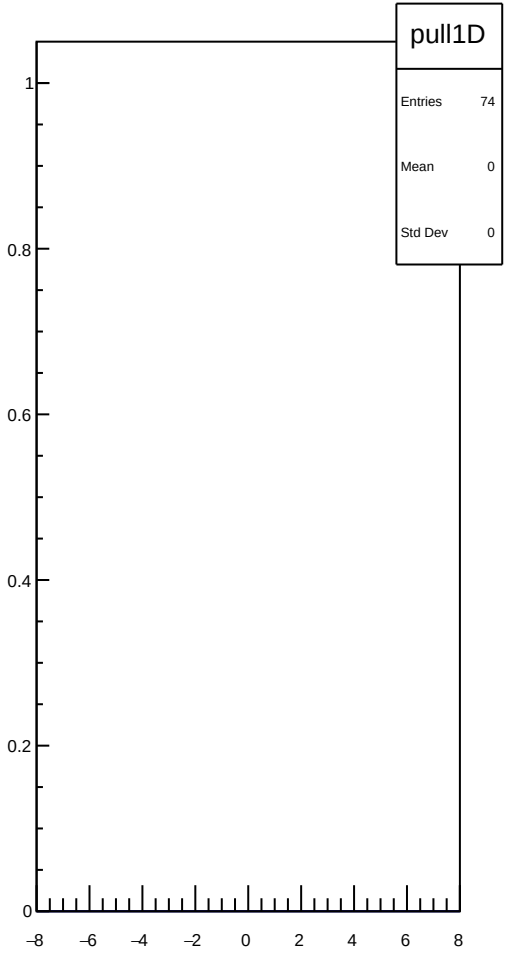

yield_bpm1Y_rms vs run
χ² / ndf 2.104e+05 / 73
p0 0.01652 ± 1.487e–05
0.1
0.09
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

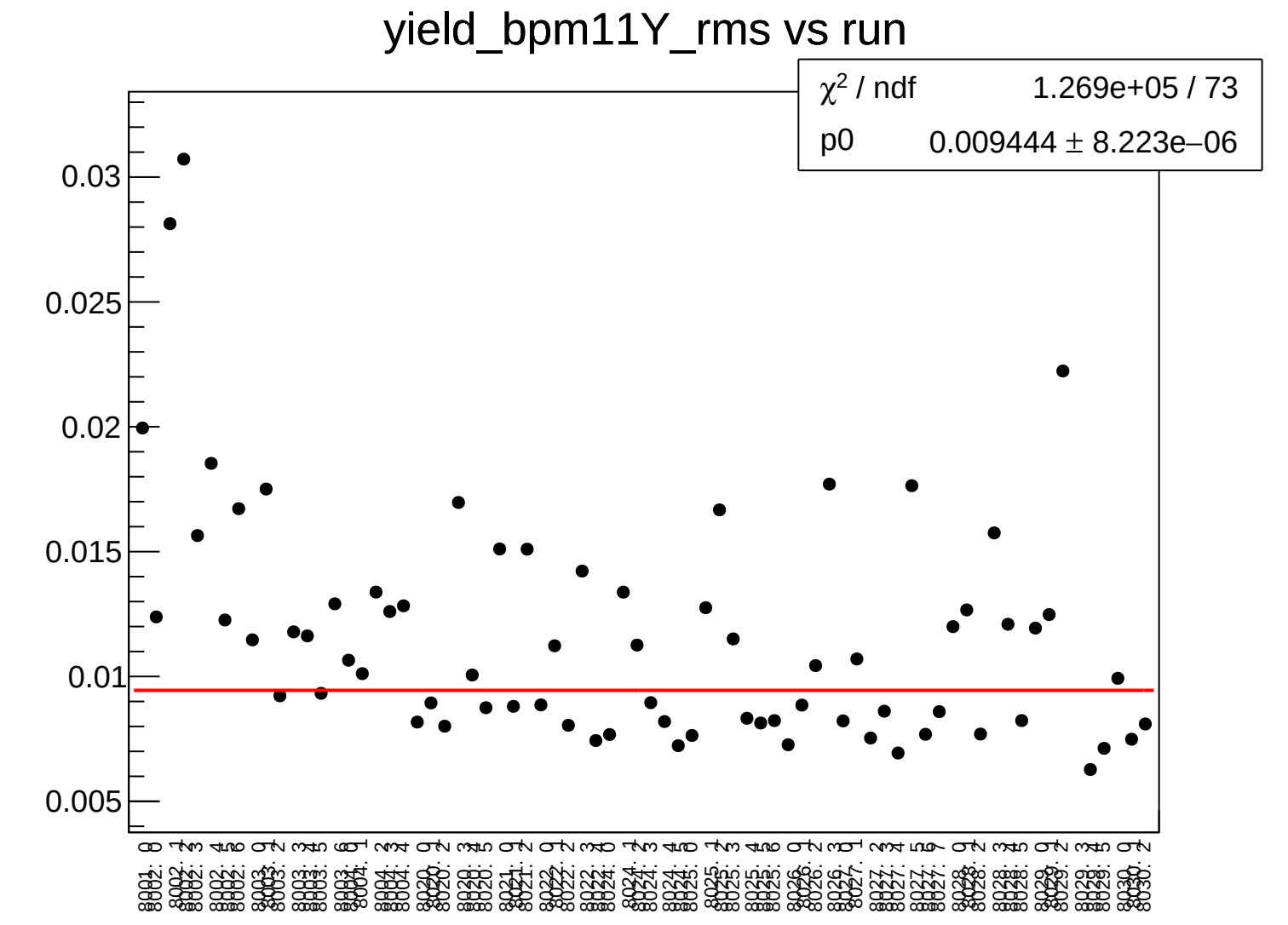

yield_bpm11X_mean vs run
χ² / ndf 2.442e+06 / 73
p0 1.343 ± 3.986e−05
1.5
1.45
1.4
1.35
1.3
1.25
pull
Entries 74
Mean −249.7
Std Dev 282.4
400
300
200
100
0
−100
−200

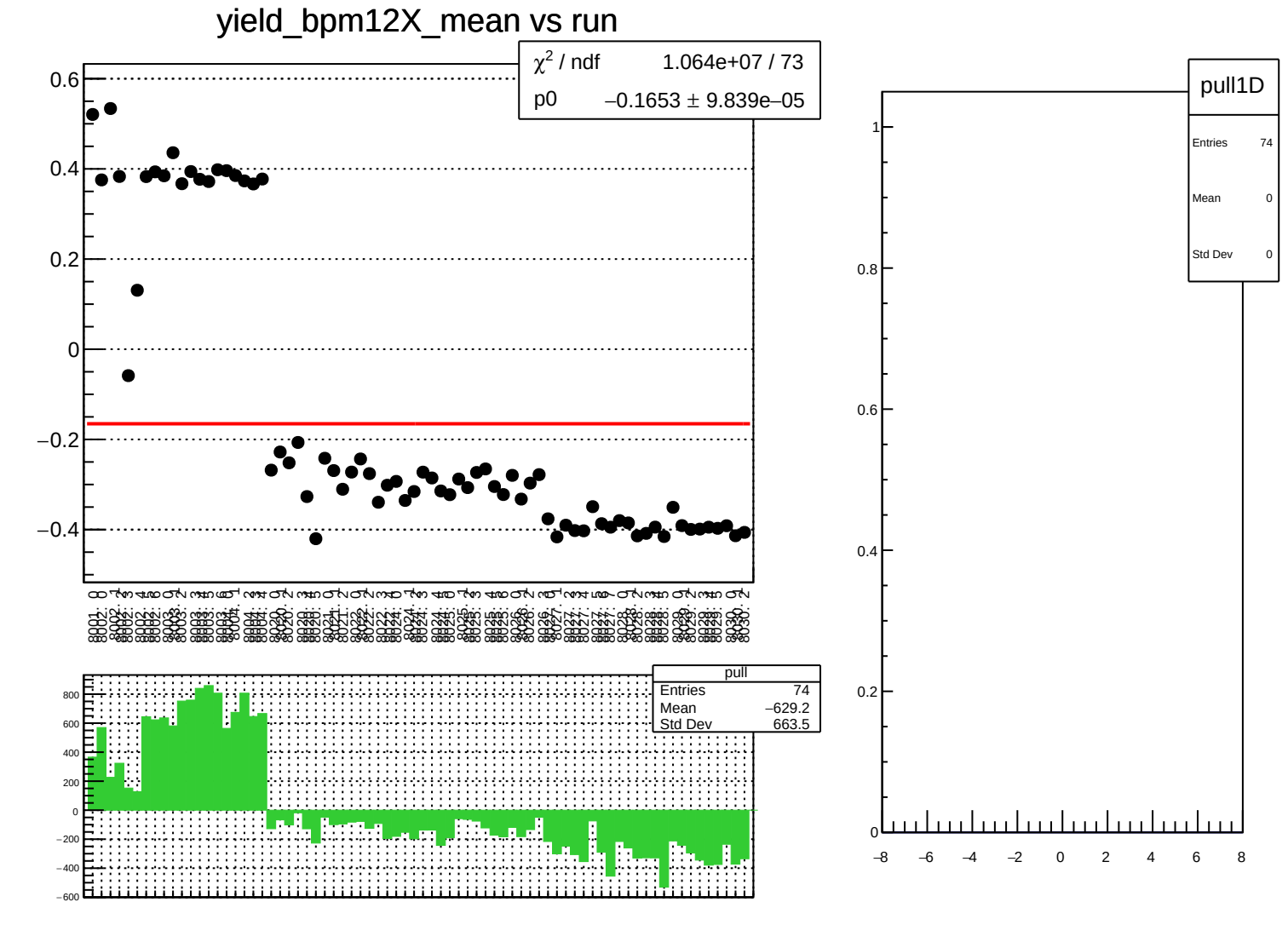

pull1D
Entries 74
Mean 0.1775
Std Dev 1.913
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

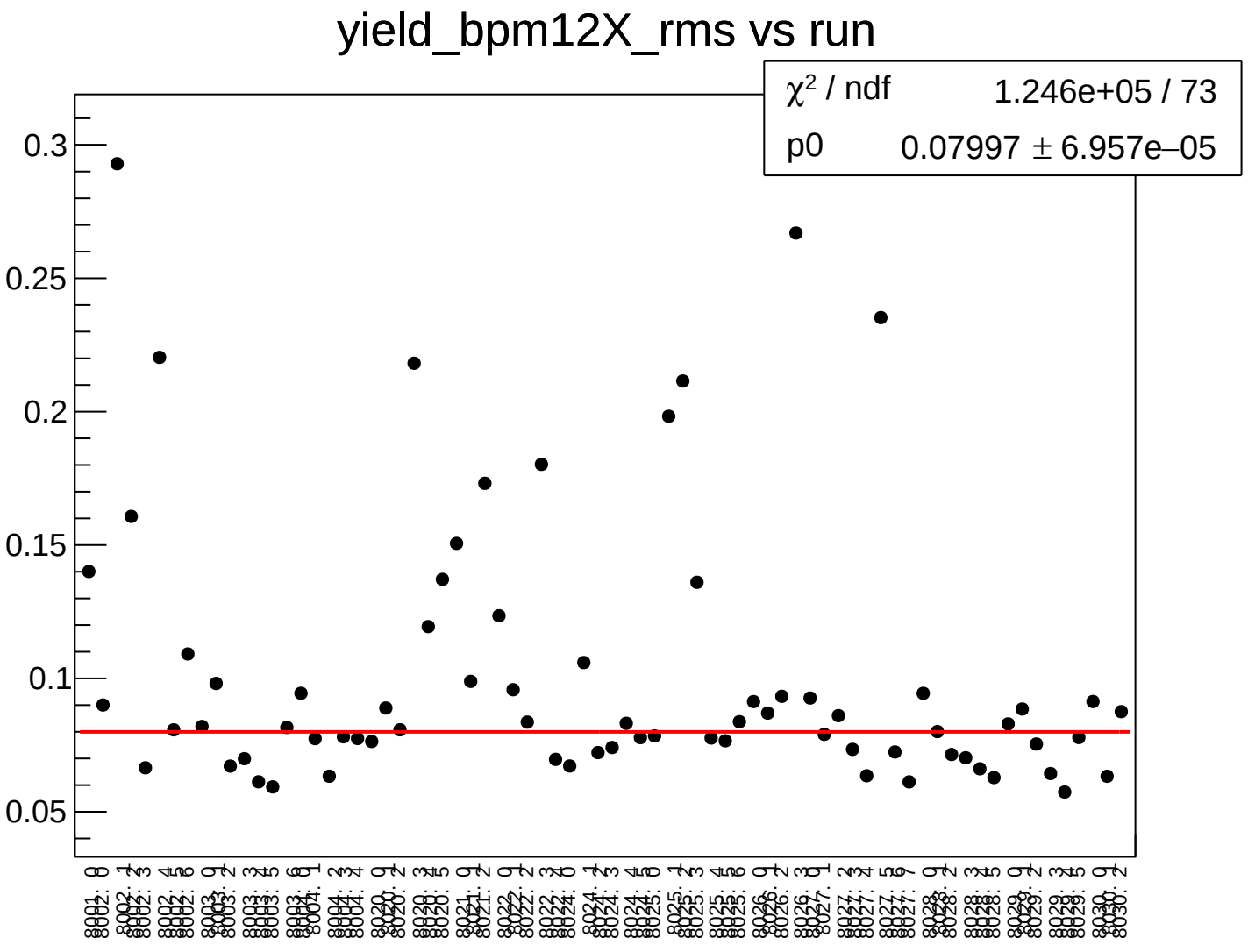

yield_bpm11X_rms vs run
χ² / ndf 1.222e+05 / 73
p0 0.03243 ± 2.818e−05
0.12
0.1
0.08
0.06
0.04
0.02

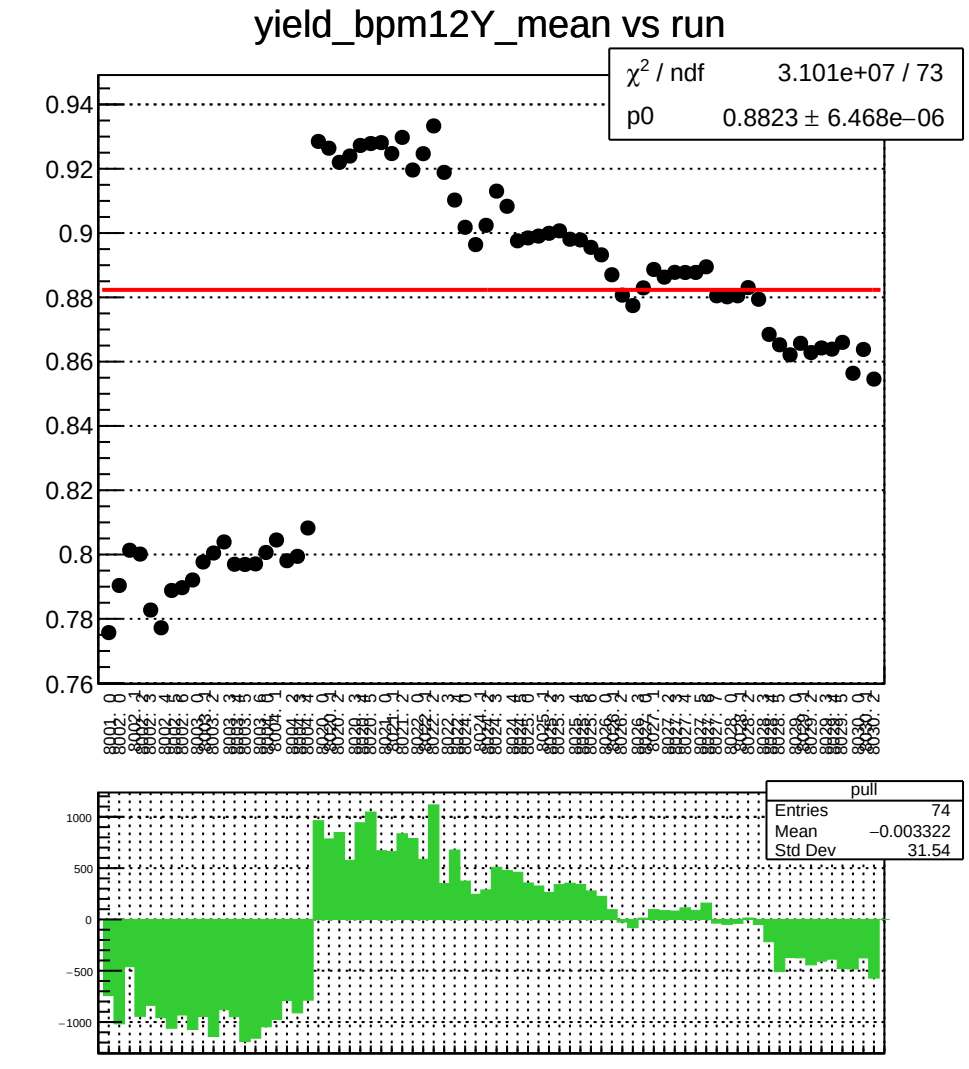

yield_bpm11Y_mean vs run
χ² / ndf 5.353e+07 / 73
p0 −0.3605 ± 1.163e−05
pull
Entries 74
Mean −40.88
Std Dev 62.82

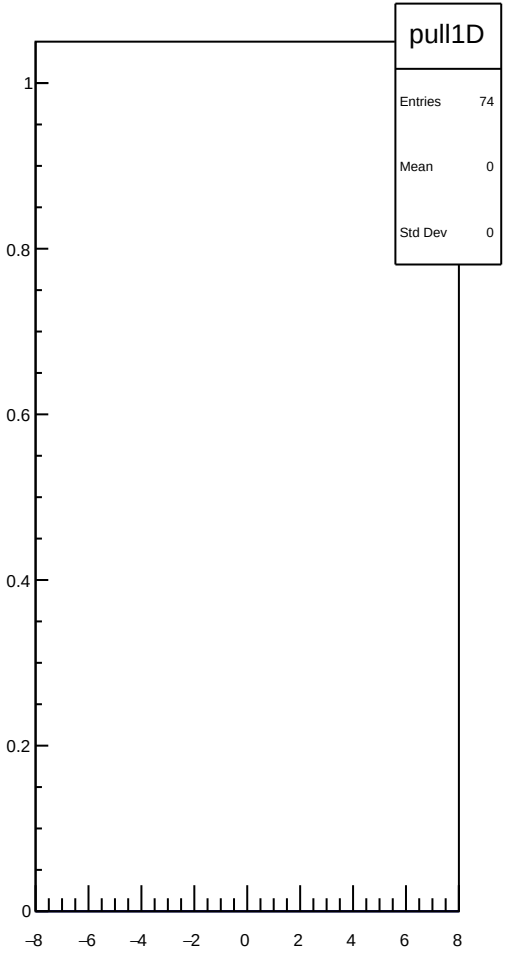

pull1D
Entries 74
Mean 0
Std Dev 0

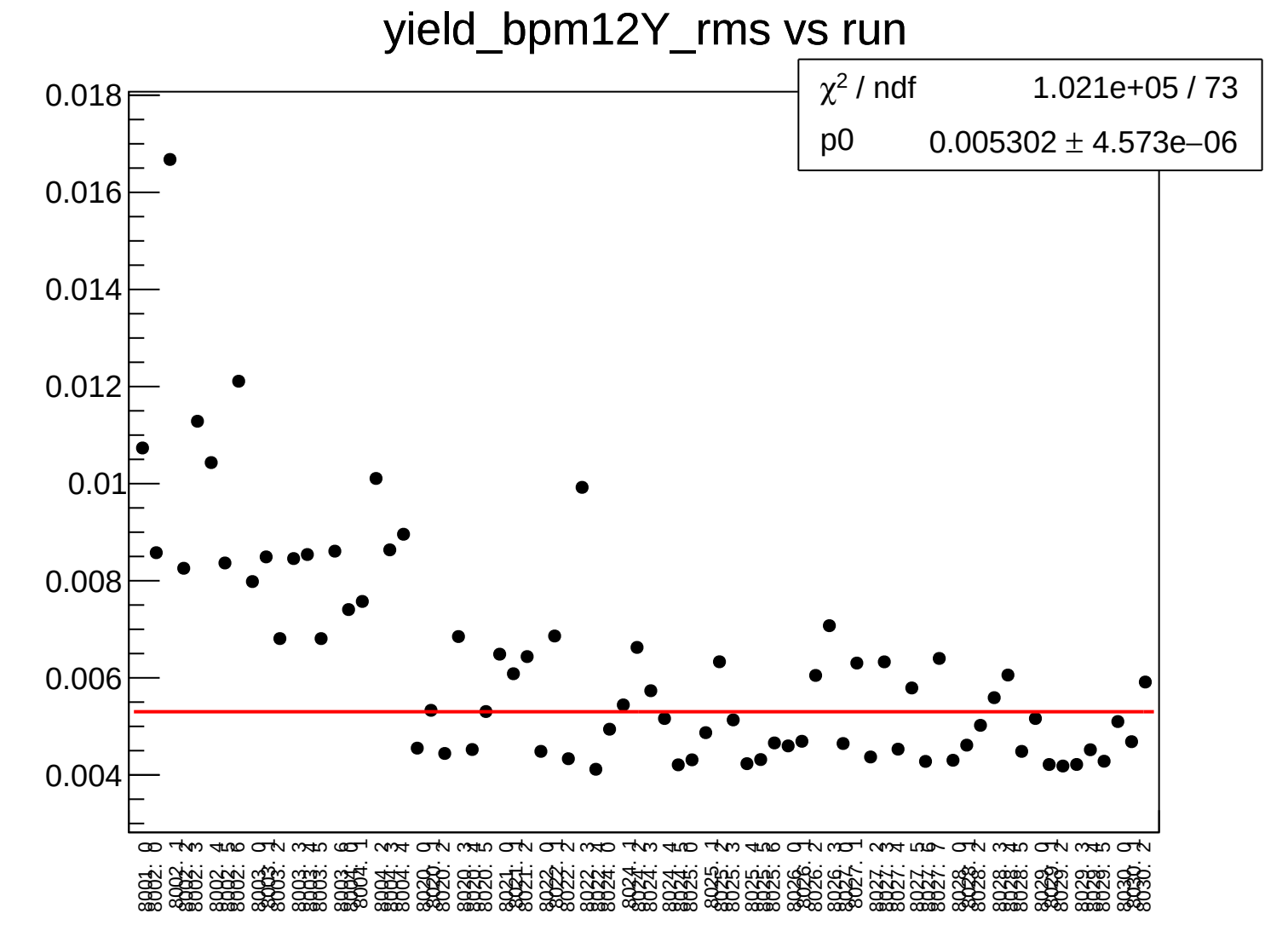

yield_bpm11Y_rms vs run
χ² / ndf 1.269e+05 / 73
p0 0.009444 ± 8.223e−06
0.03
0.025
0.02
0.015
0.01
0.005

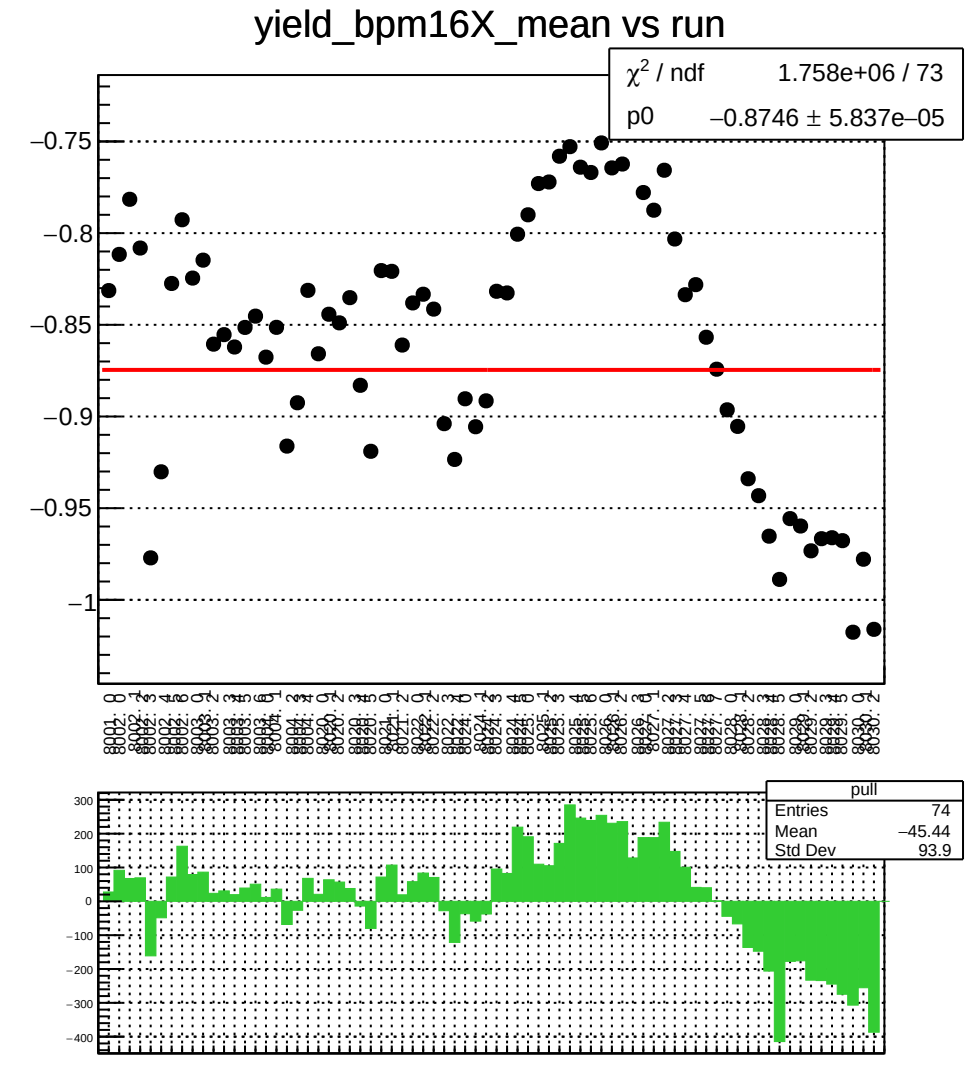

yield_bpm12X_mean vs run
χ² / ndf 1.064e+07 / 73
p0 −0.1653 ± 9.839e−05
pull
Entries 74
Mean −629.2
Std Dev 663.5
pull1D
Entries 74
Mean 0
Std Dev 0

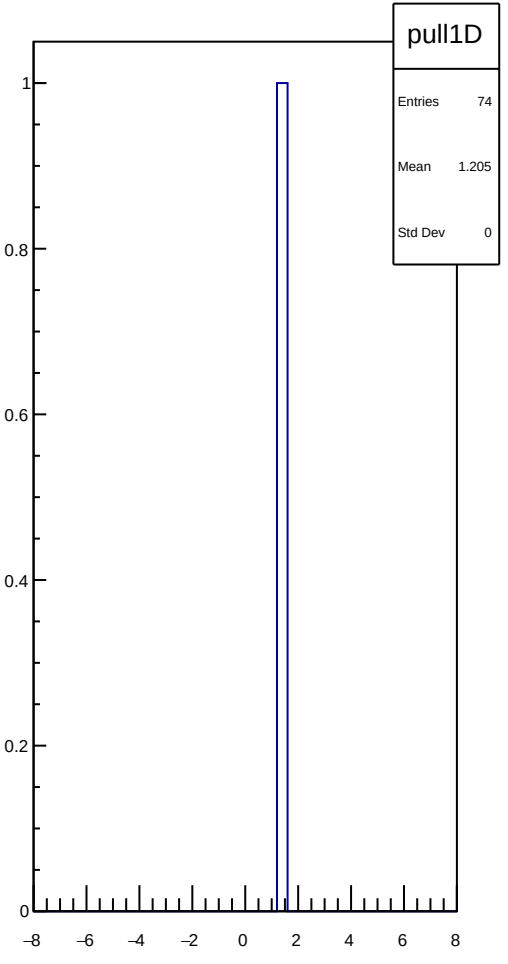

yield_bpm12X_rms vs run
χ² / ndf 1.246e+05 / 73
p0 0.07997 ± 6.957e–05
0.3
0.25
0.2
0.15
0.1
0.05

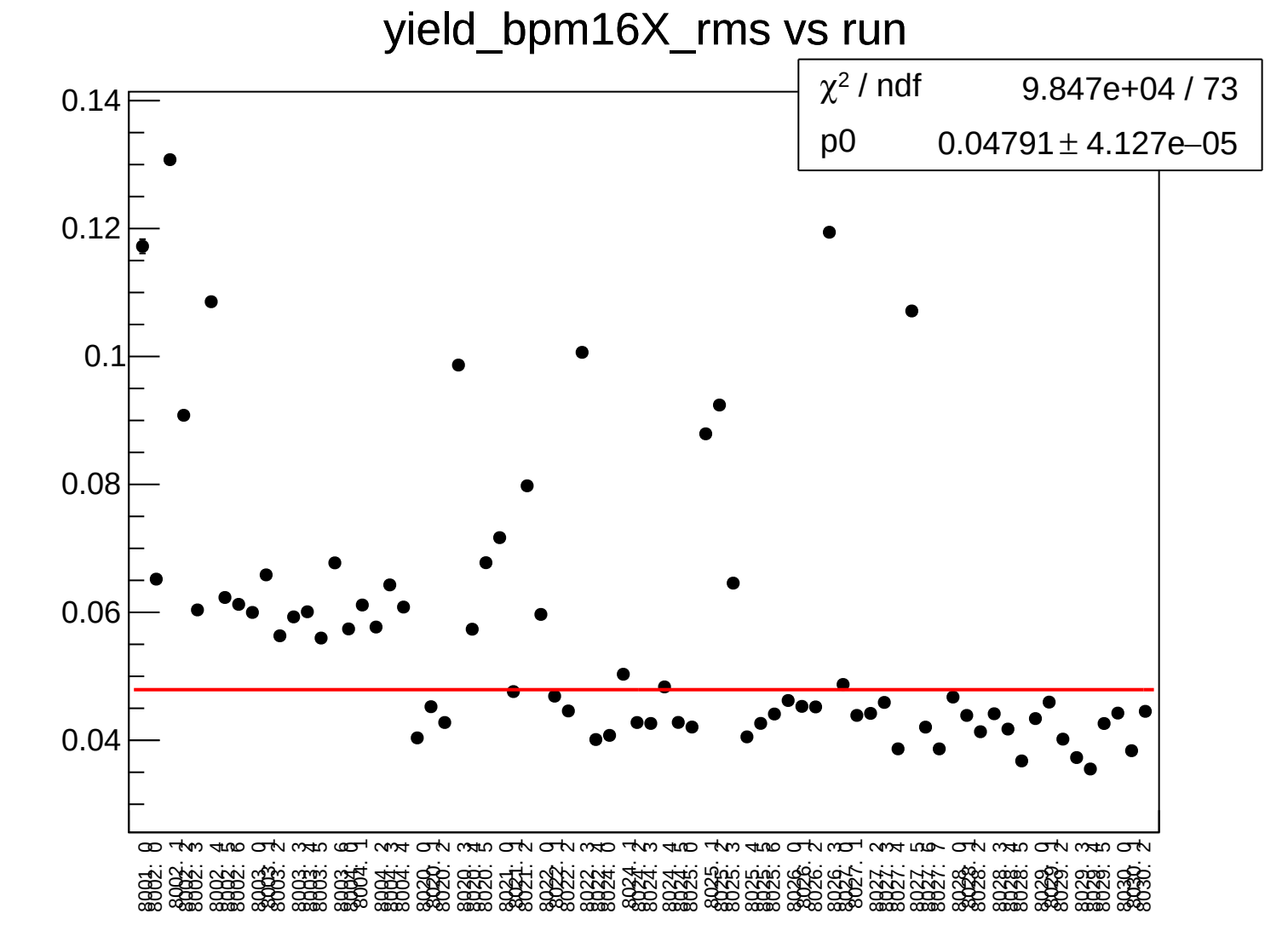

yield_bpm12Y_mean vs run
χ² / ndf 3.101e+07 / 73
p0 0.8823 ± 6.468e−06
0.94
0.92
0.9
0.88
0.86
0.84
0.82
0.8
0.78
0.76
pull
Entries 74
Mean −0.003322
Std Dev 31.54
1000
500
0
−500
−1000

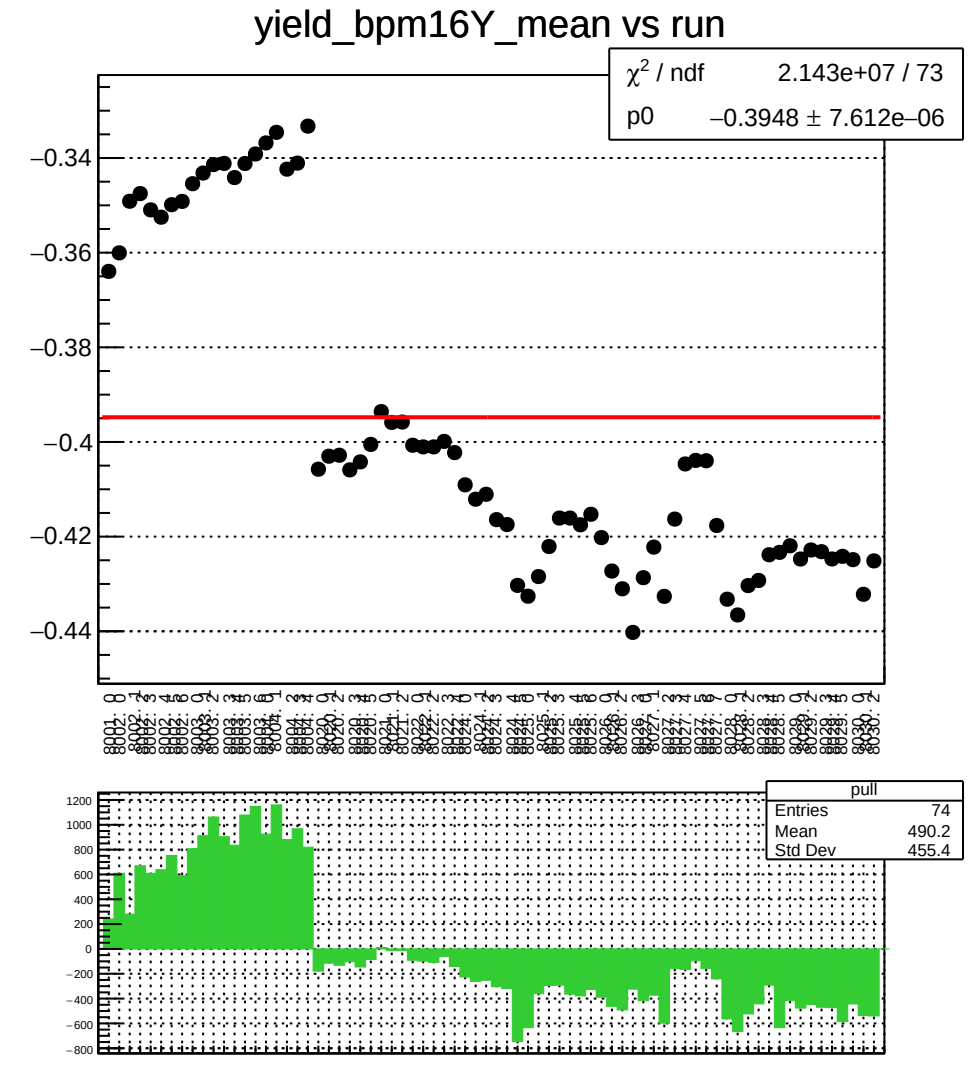

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

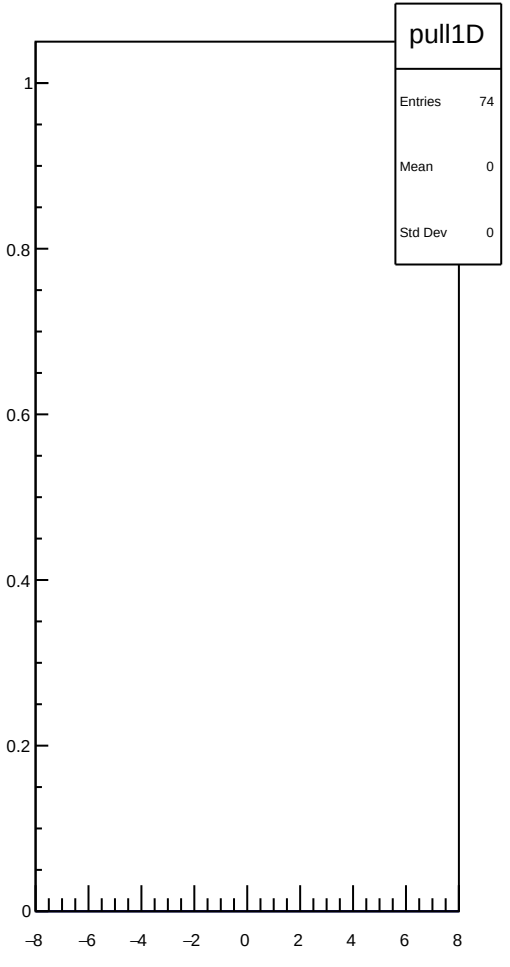

yield_bpm12Y_rms vs run
χ² / ndf 1.021e+05 / 73
p0 0.005302 ± 4.573e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

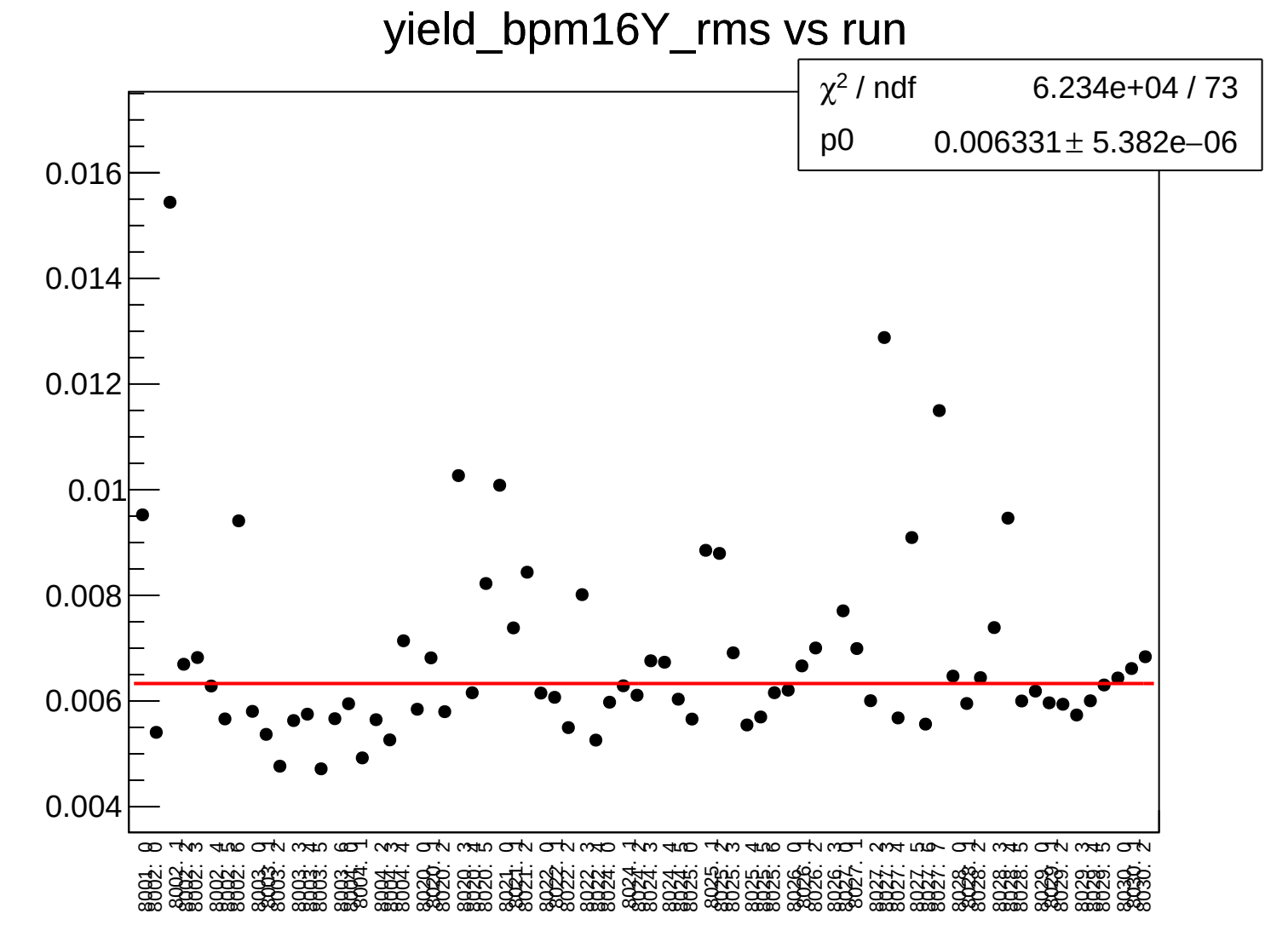

yield_bpm16X_mean vs run
χ² / ndf 1.758e+06 / 73
p0 −0.8746 ± 5.837e−05
−0.75
−0.8
−0.85
−0.9
−0.95
−1
pull
Entries 74
Mean −45.44
Std Dev 93.9
300
200
100
0
−100
−200
−300
−400

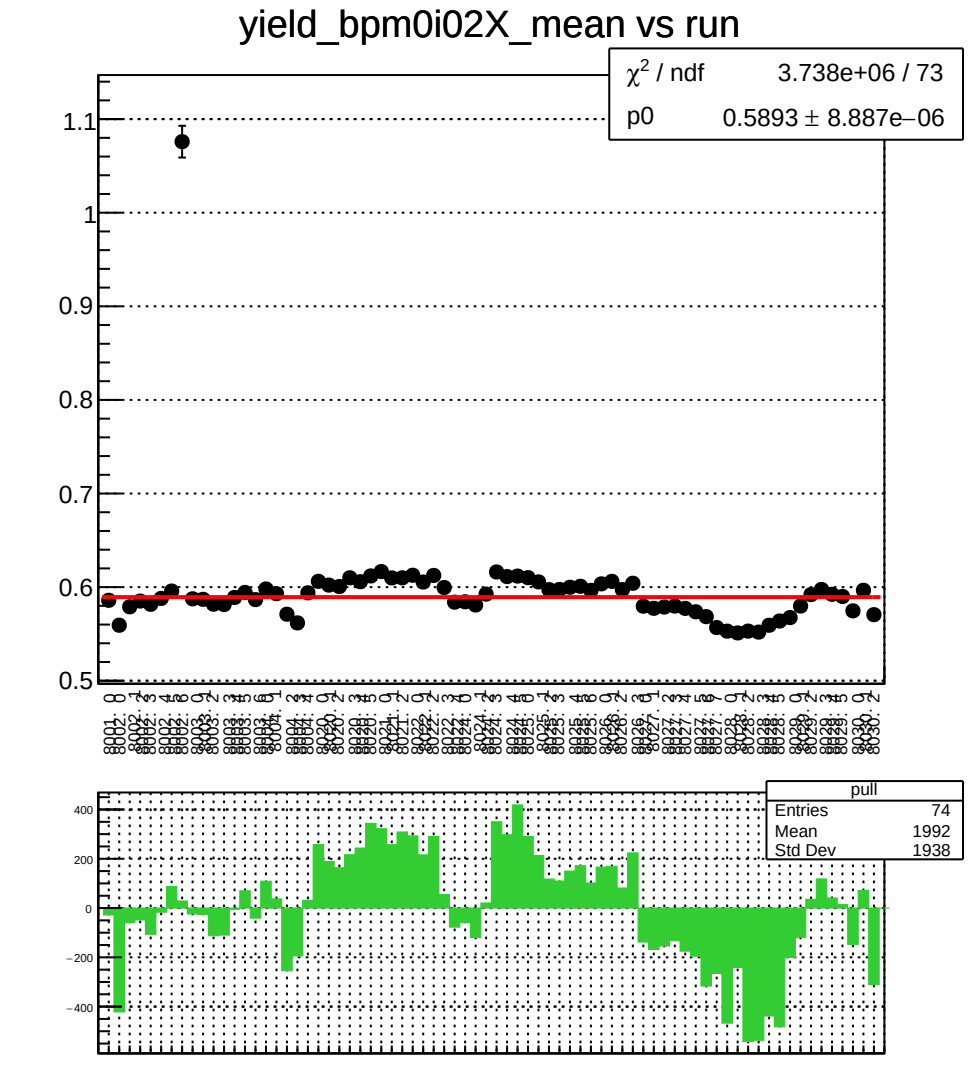

pull1D
Entries 74
Mean 1.205
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

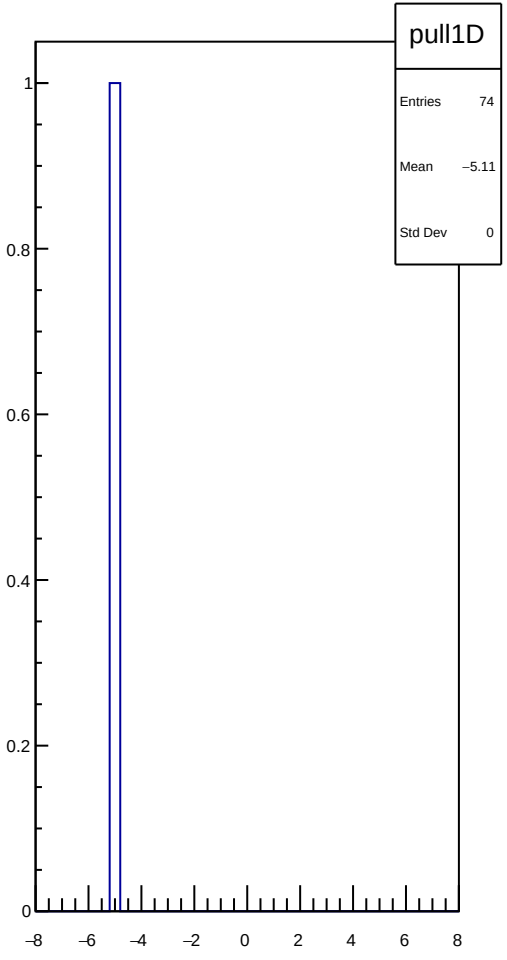

yield_bpm16X_rms vs run
χ² / ndf 9.847e+04 / 73
p0 0.04791 ± 4.127e–05
0.14
0.12
0.1
0.08
0.06
0.04

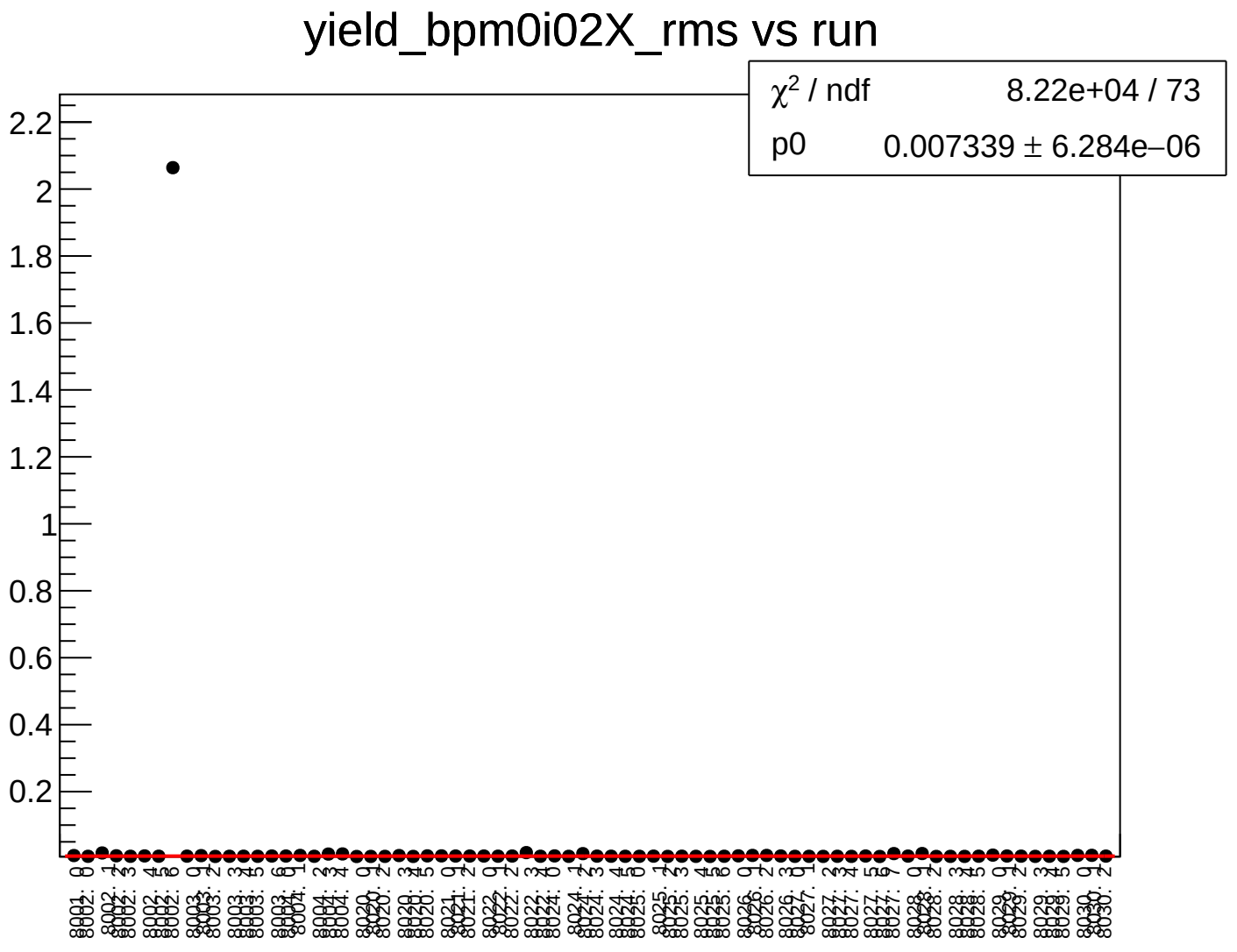

yield_bpm16Y_mean vs run
χ² / ndf 2.143e+07 / 73
p0 −0.3948 ± 7.612e−06
−0.34
−0.36
−0.38
−0.4
−0.42
−0.44
pull
Entries 74
Mean 490.2
Std Dev 455.4
1200
1000
800
600
400
200
0
−200
−400
−600
−800

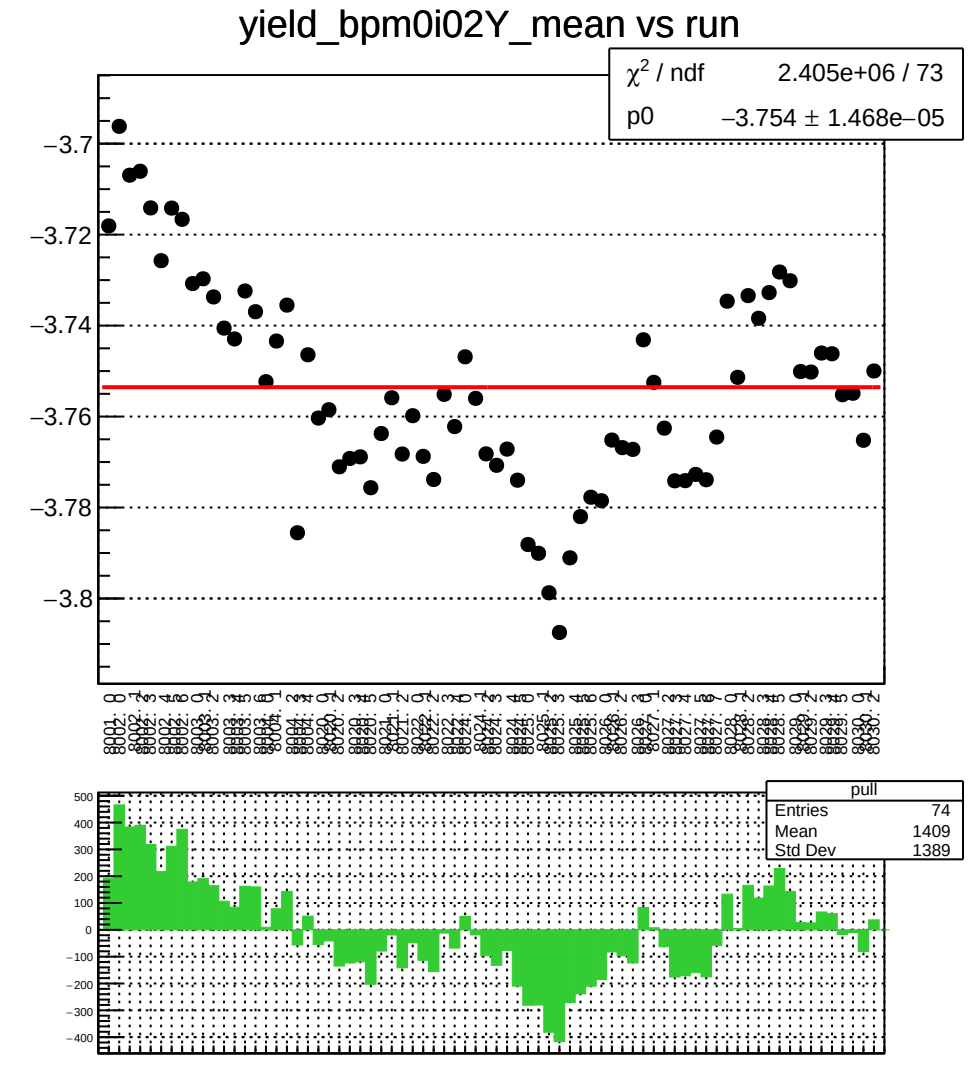

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

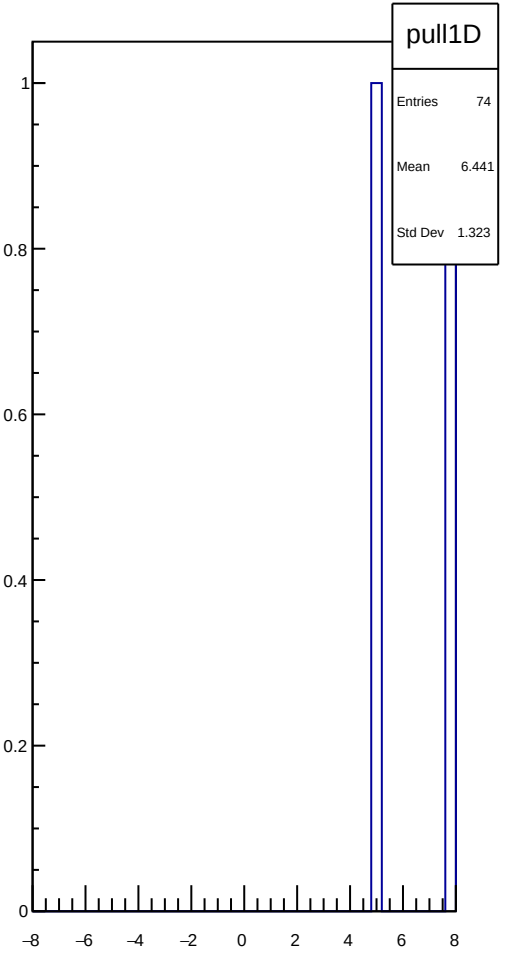

yield_bpm16Y_rms vs run
χ^2 / ndf 6.234e+04 / 73
p0 0.006331 ± 5.382e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

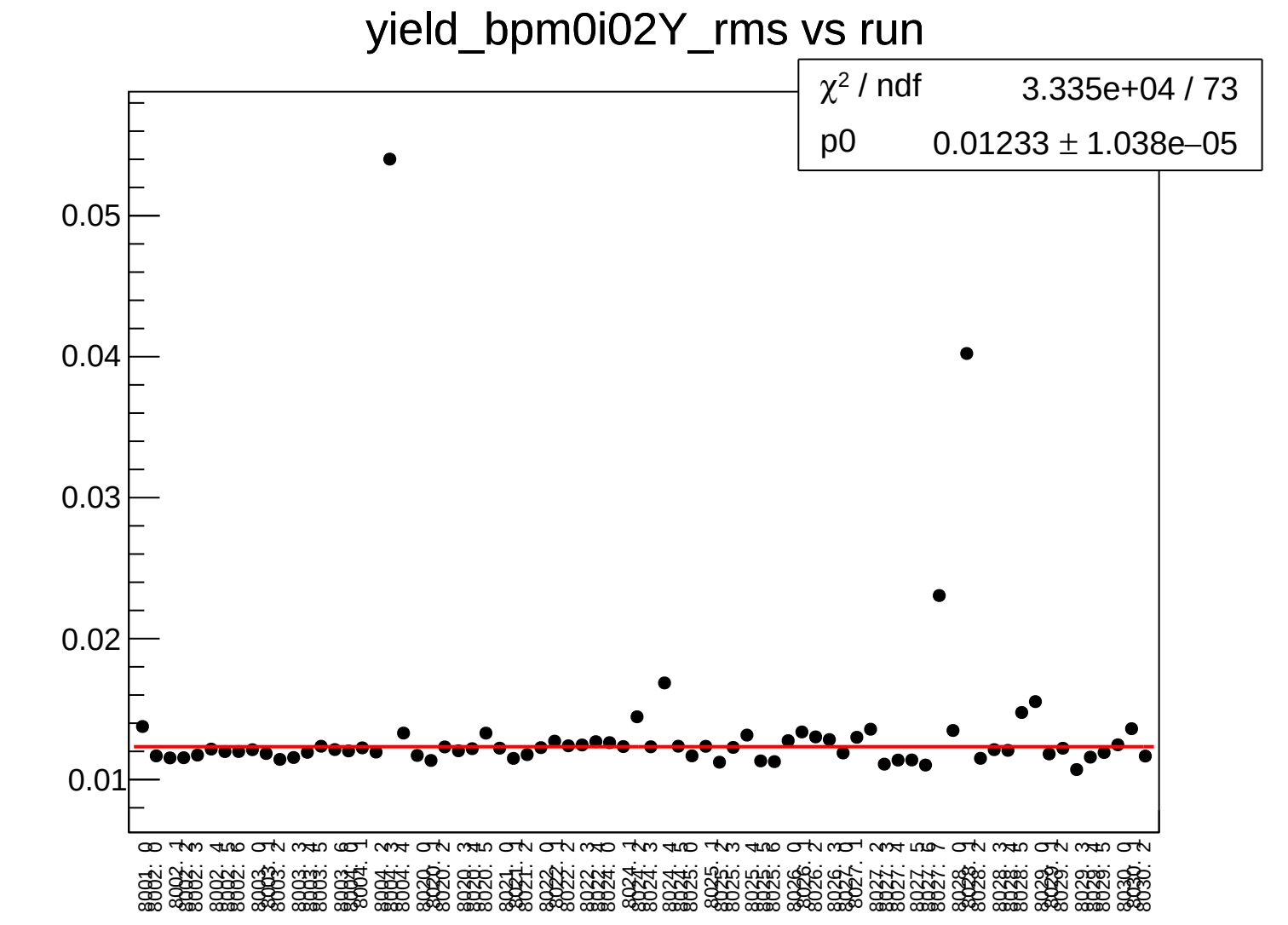

yield_bpm0i02X_mean vs run
χ² / ndf 3.738e+06 / 73
p0 0.5893 ± 8.887e−06
pull
Entries 74
Mean 1992
Std Dev 1938

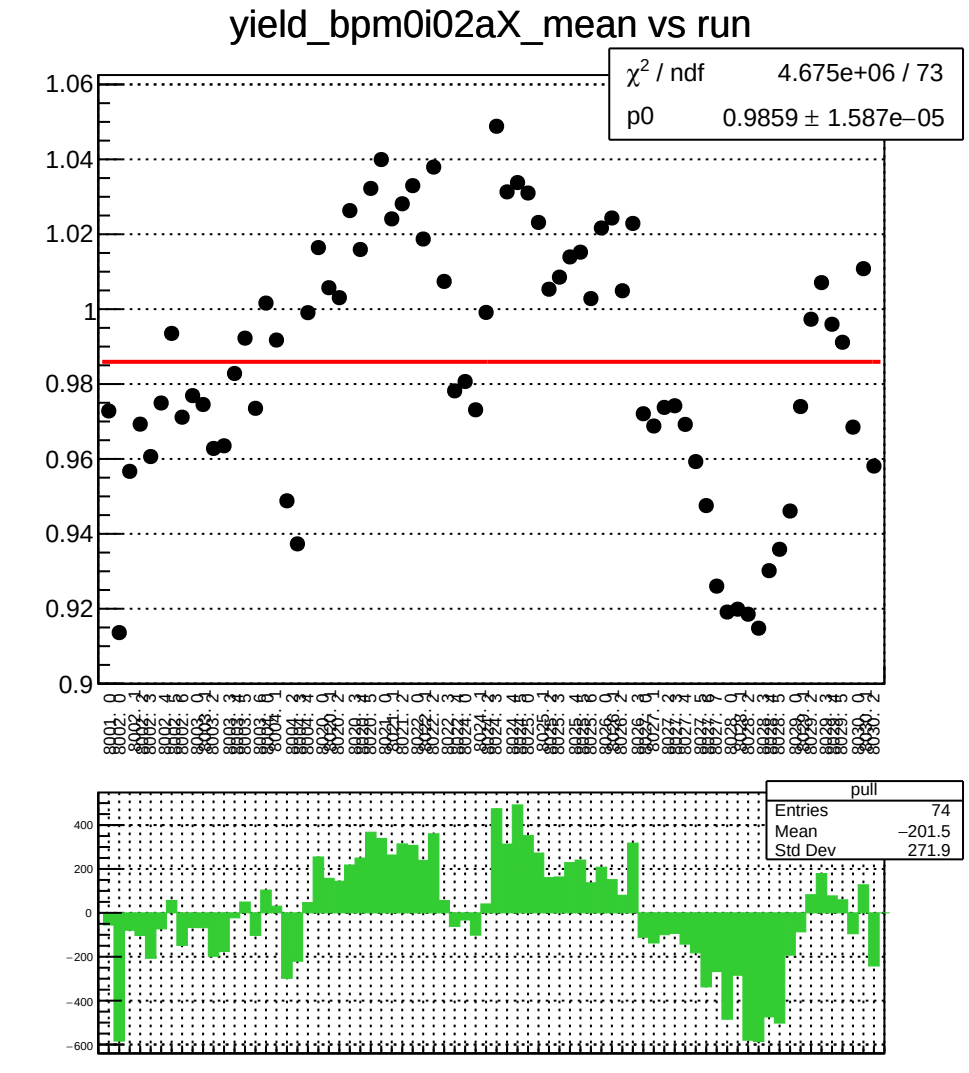

pull1D
Entries 74
Mean −5.11
Std Dev 0

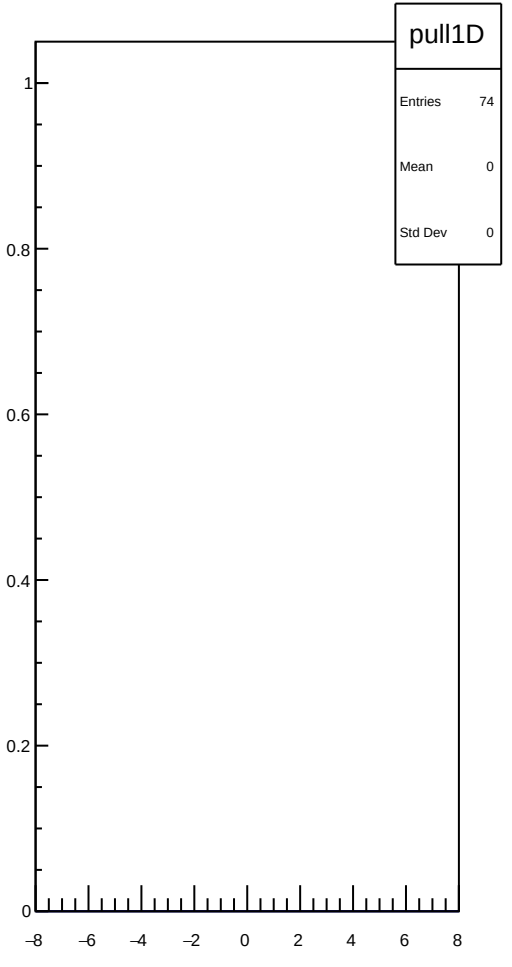

yield_bpm0i02X_rms vs run
χ² / ndf 8.22e+04 / 73
p0 0.007339 ± 6.284e−06
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

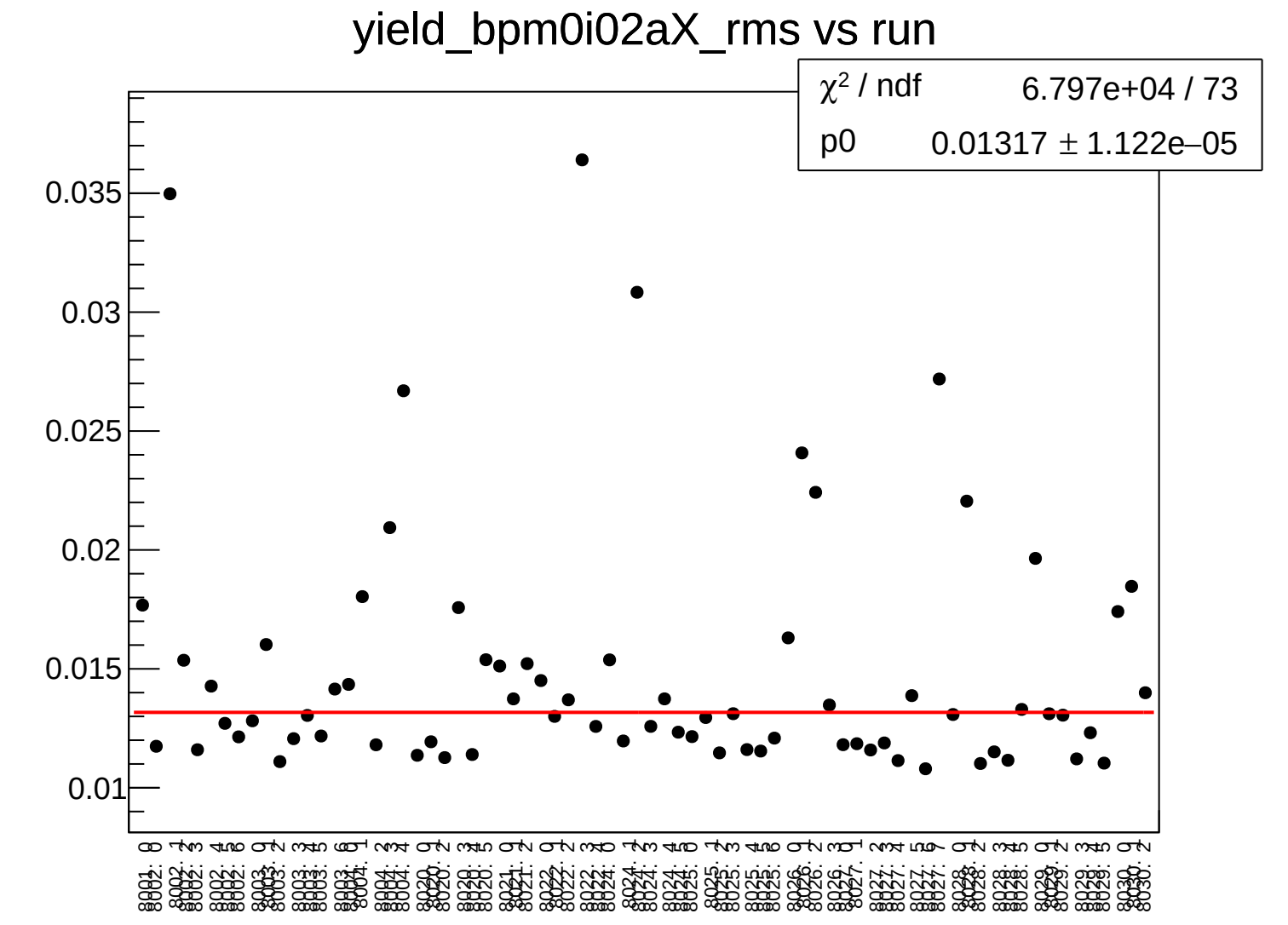

yield_bpm0i02Y_mean vs run
χ² / ndf 2.405e+06 / 73
p0 −3.754 ± 1.468e−05
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
pull
Entries 74
Mean 1409
Std Dev 1389
500
400
300
200
100
0
−100
−200
−300
−400

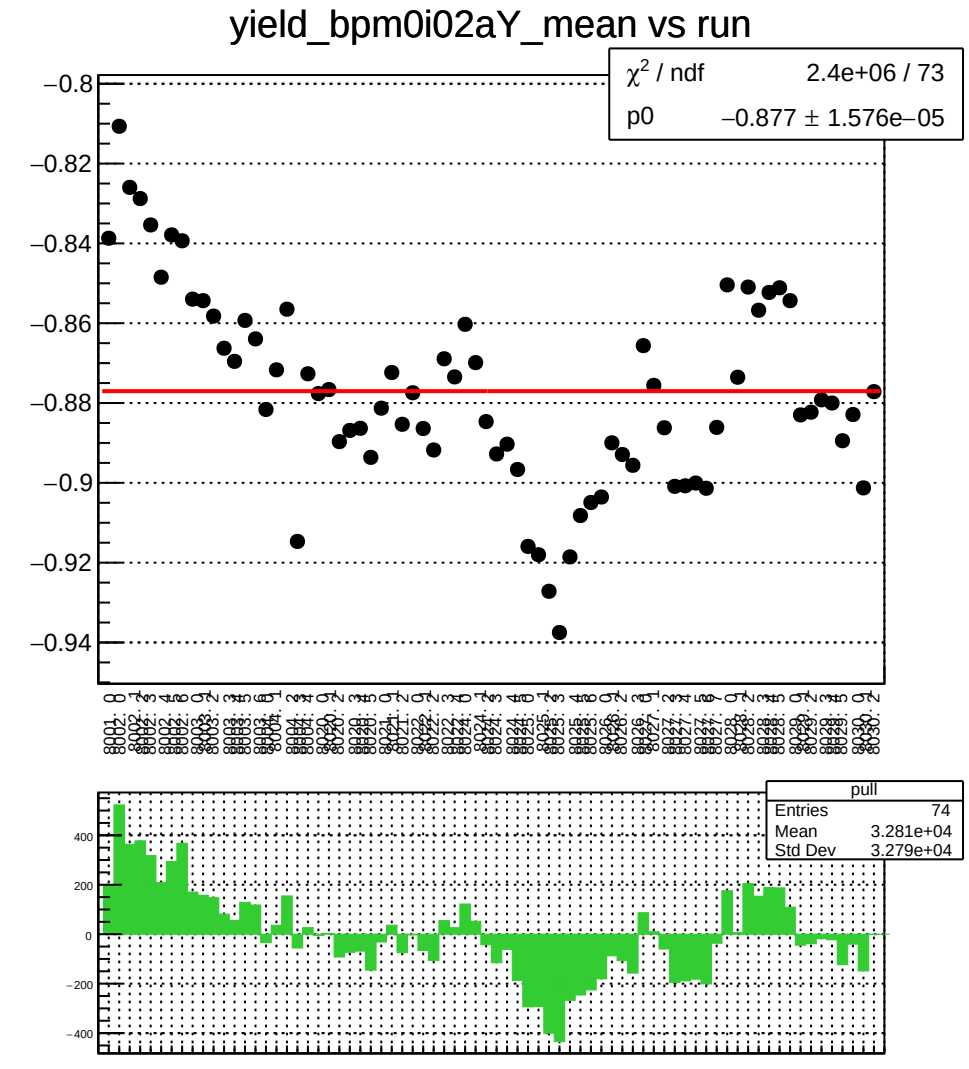

pull1D
Entries 74
Mean 6.441
Std Dev 1.323
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

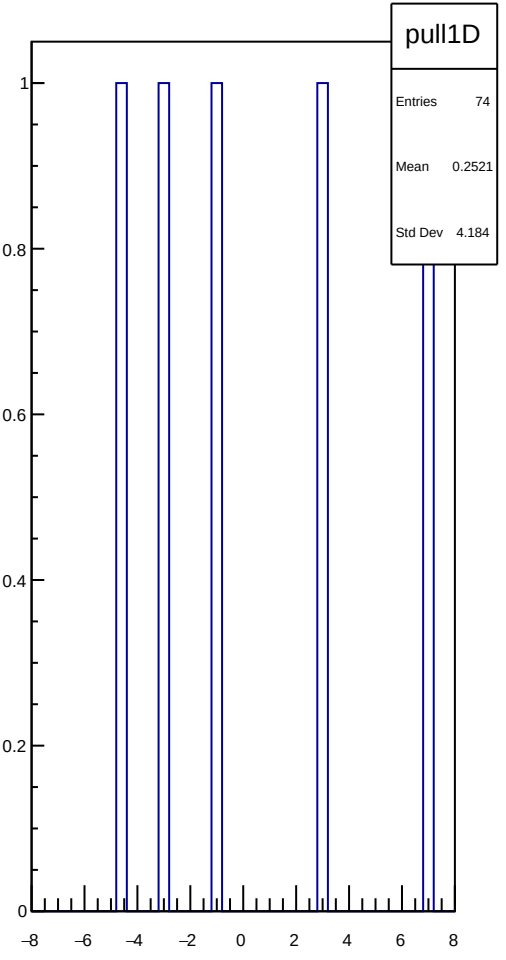

yield_bpm0i02Y_rms vs run
χ² / ndf 3.335e+04 / 73
p0 0.01233 ± 1.038e–05
0.05
0.04
0.03
0.02
0.01

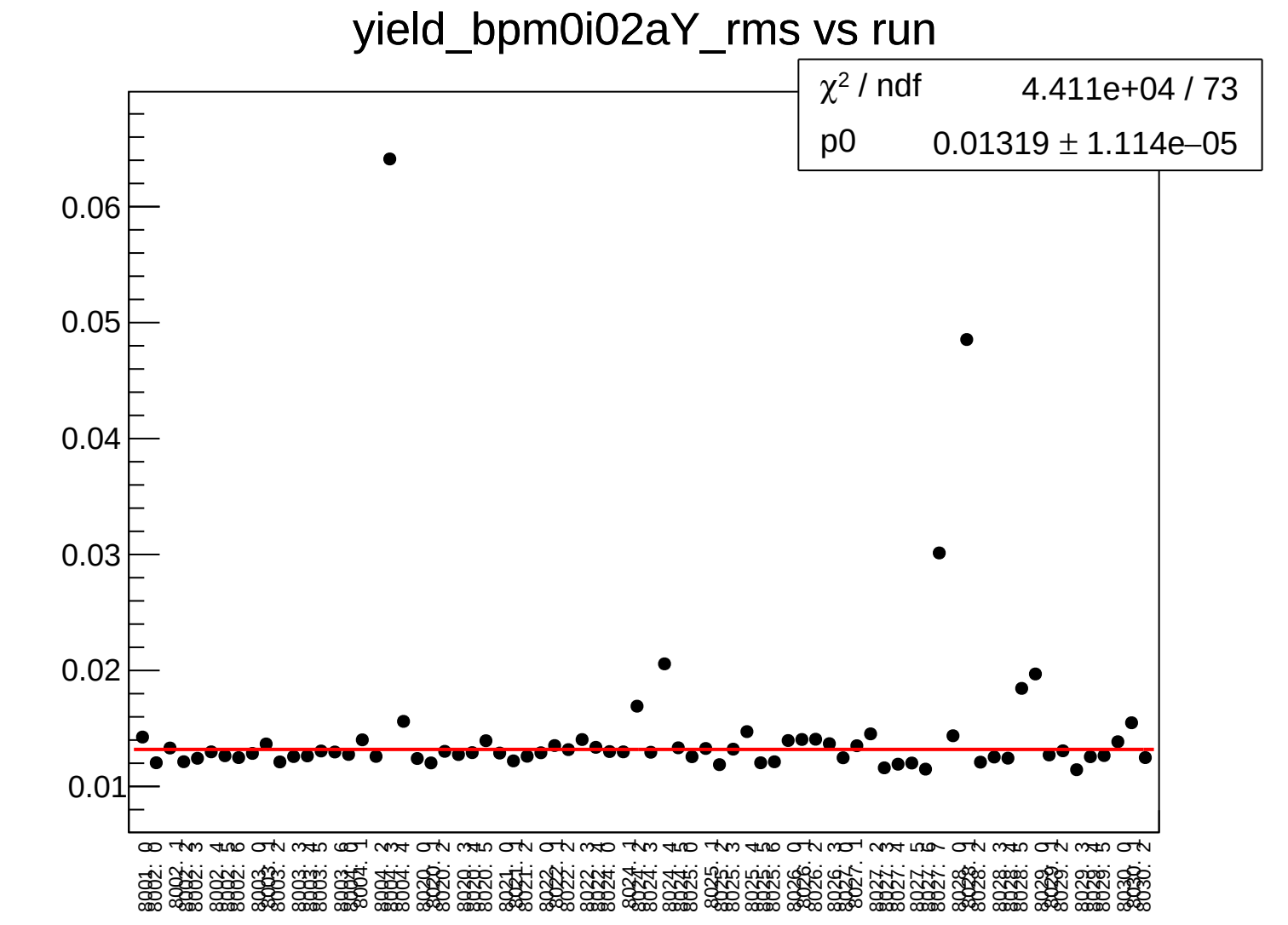

yield_bpm0i02aX_mean vs run
χ² / ndf 4.675e+06 / 73
p0 0.9859 ± 1.587e−05
1.06
1.04
1.02
1
0.98
0.96
0.94
0.92
0.9
pull
Entries 74
Mean −201.5
Std Dev 271.9
400
200
0
−200
−400
−600

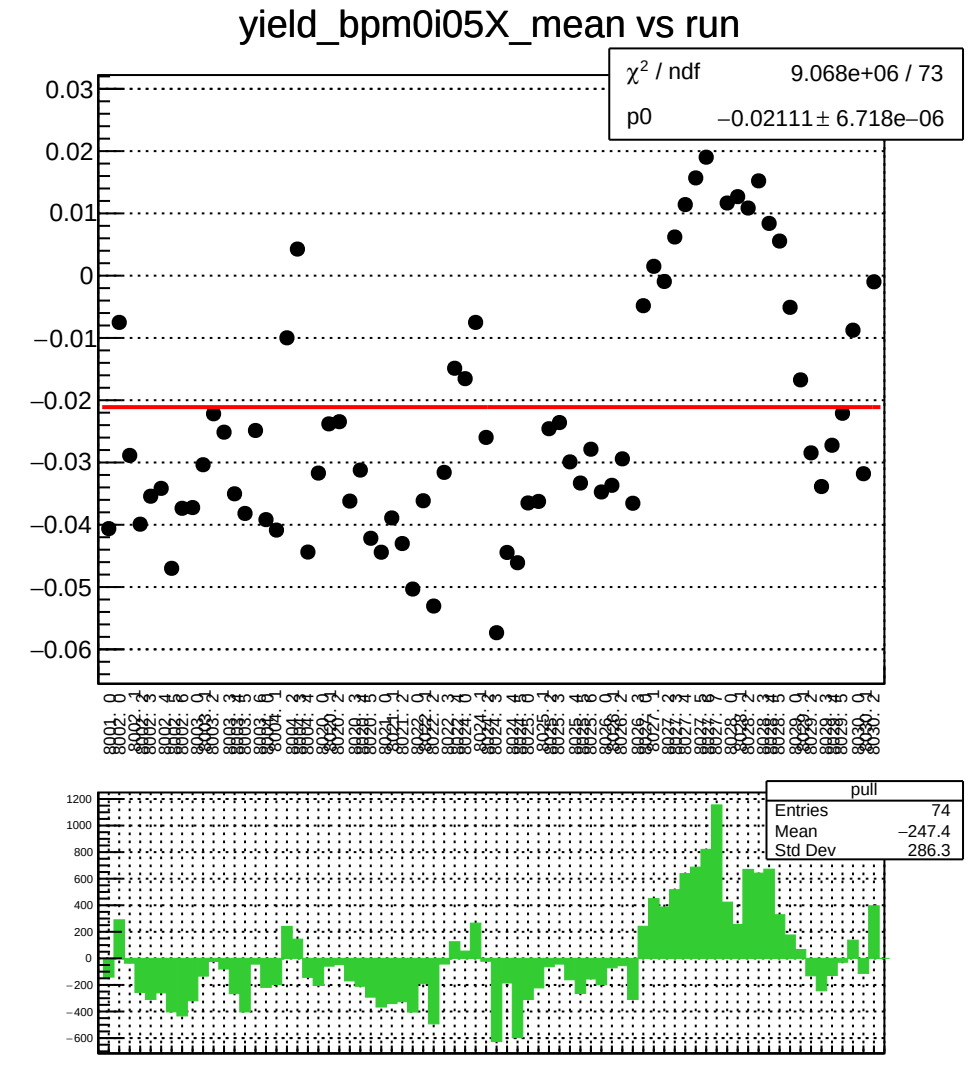

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

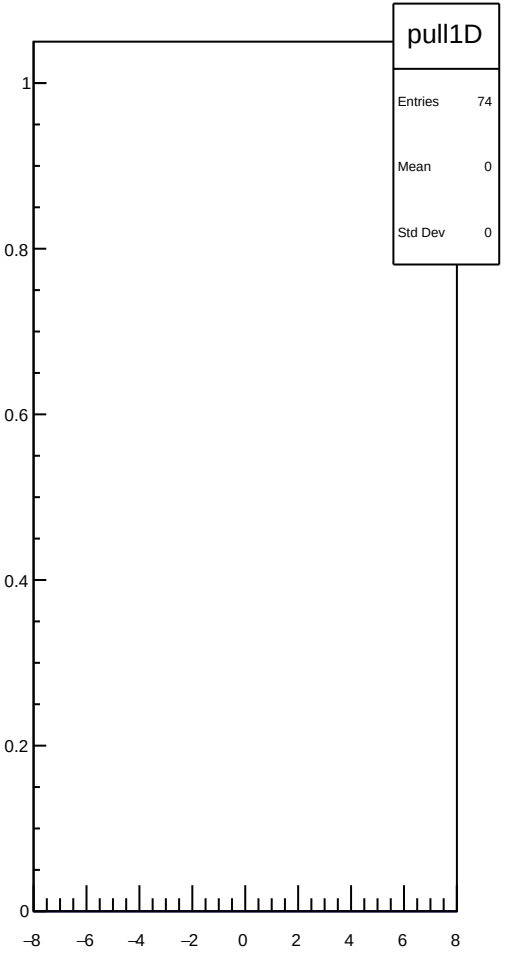

yield_bpm0i02aX_rms vs run
χ² / ndf 6.797e+04 / 73
p0 0.01317 ± 1.122e−05
0.035
0.03
0.025
0.02
0.015
0.01

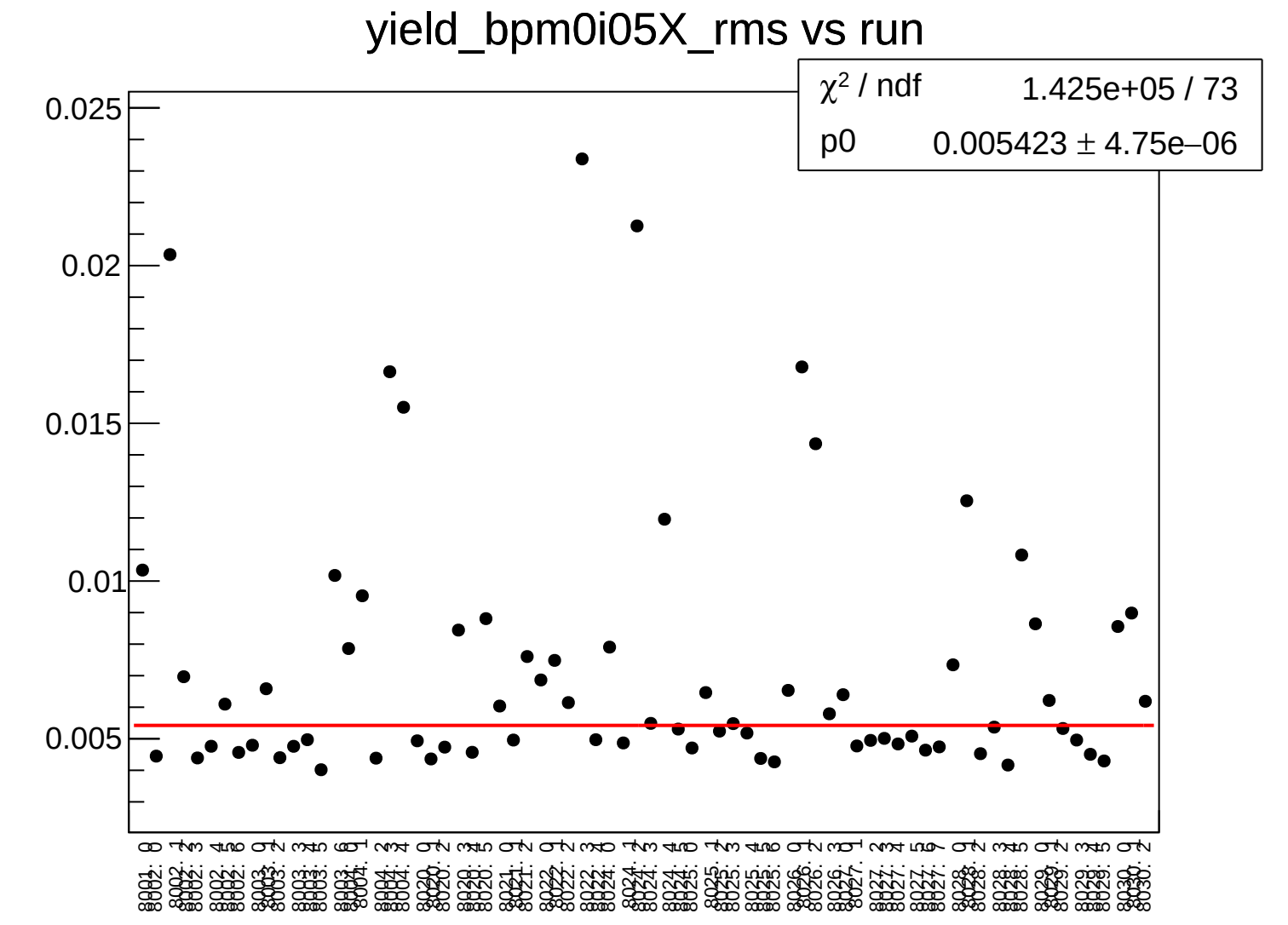

yield_bpm0i02aY_mean vs run
χ² / ndf 2.4e+06 / 73
p0 −0.877 ± 1.576e−05
pull
Entries 74
Mean 3.281e+04
Std Dev 3.279e+04

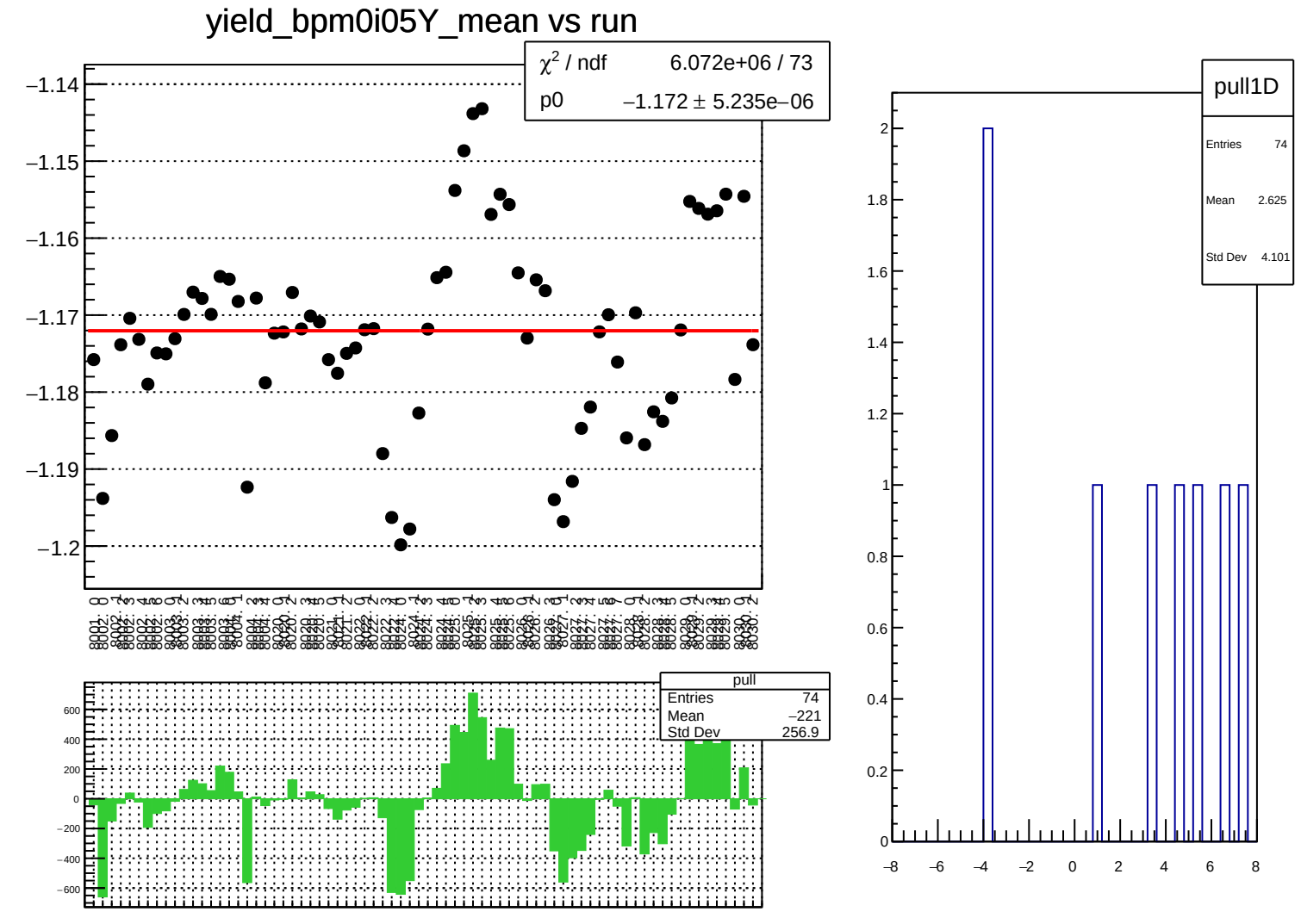

pull1D
Entries 74
Mean 0.2521
Std Dev 4.184

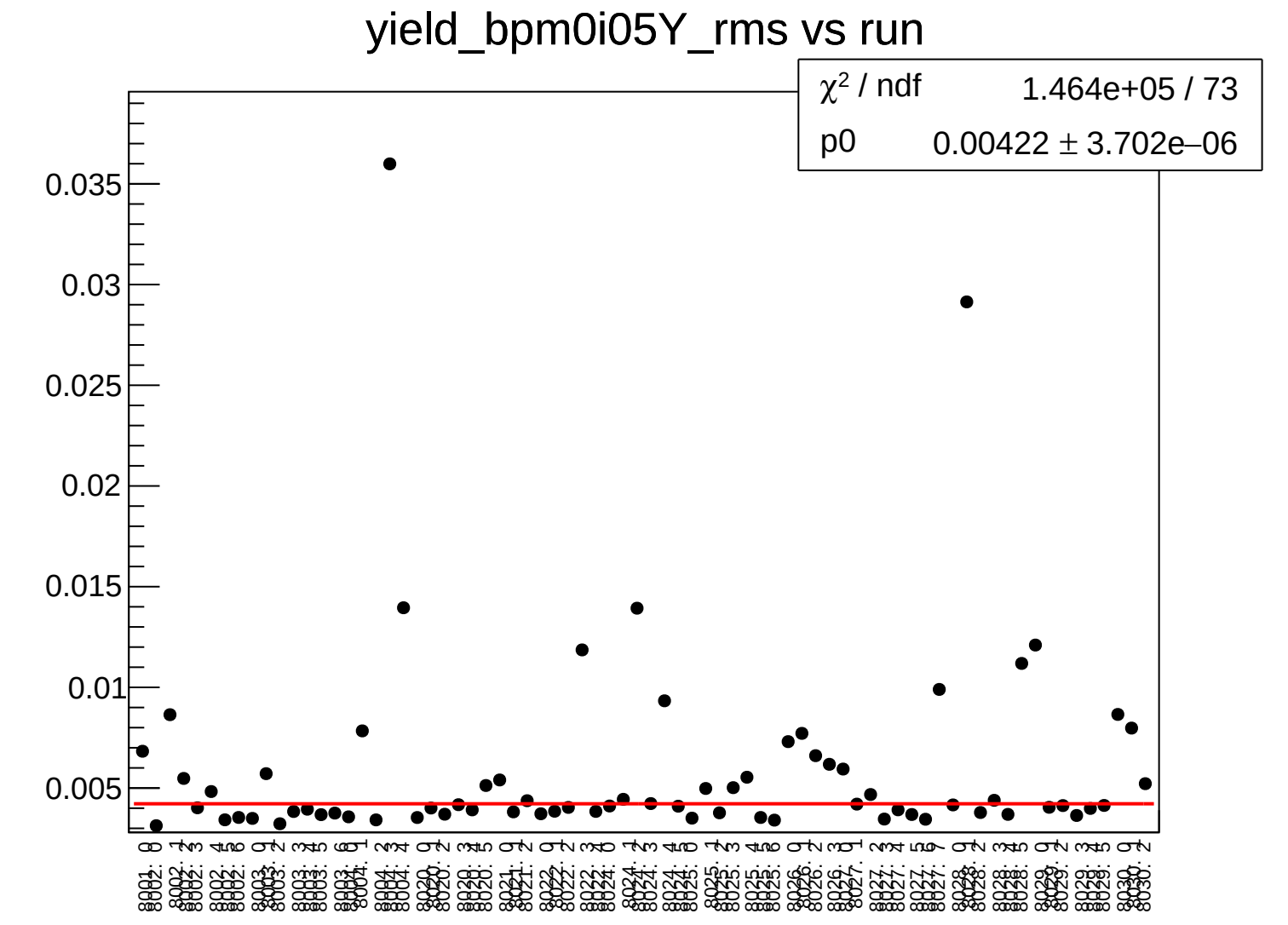

yield_bpm0i02aY_rms vs run
χ² / ndf 4.411e+04 / 73
p0 0.01319 ± 1.114e–05
0.06
0.05
0.04
0.03
0.02
0.01

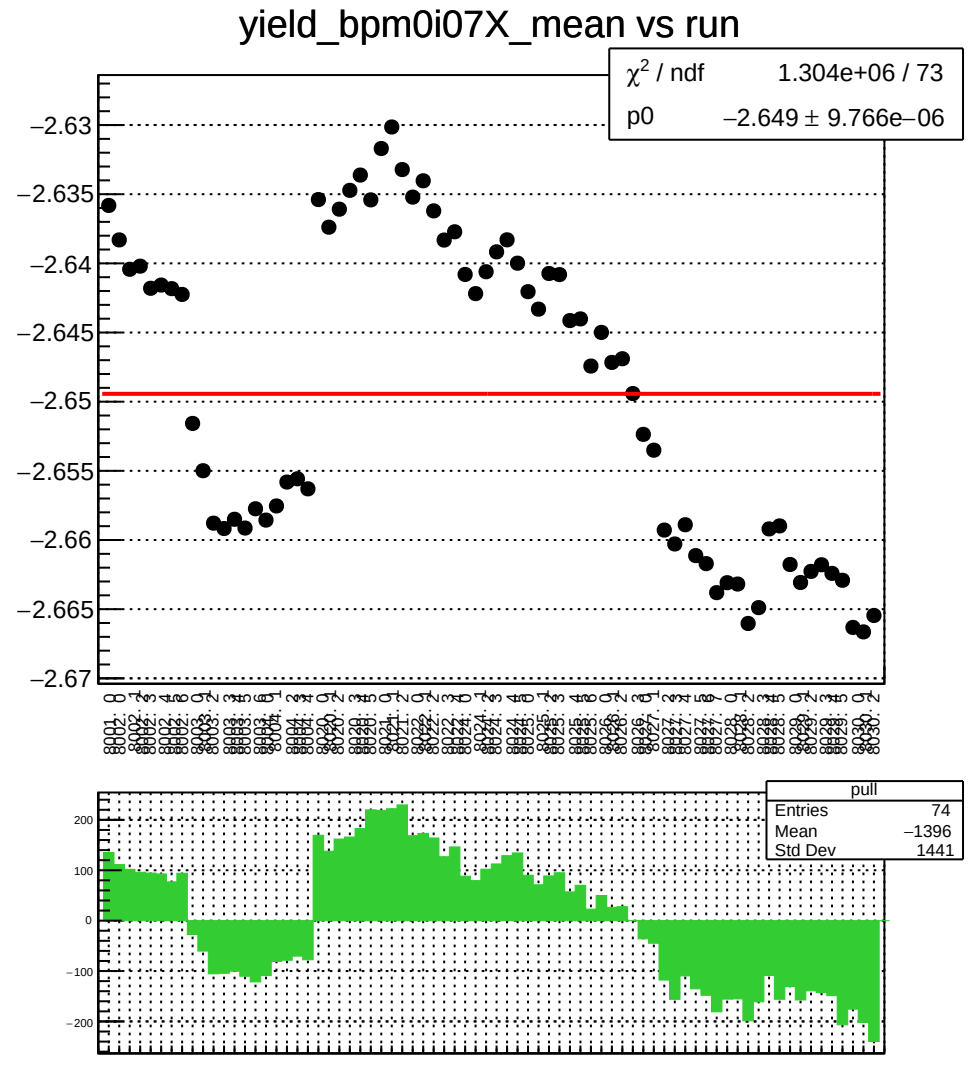

yield_bpm0i05X_mean vs run
χ² / ndf 9.068e+06 / 73
p0 −0.02111 ± 6.718e−06
pull
Entries 74
Mean −247.4
Std Dev 286.3

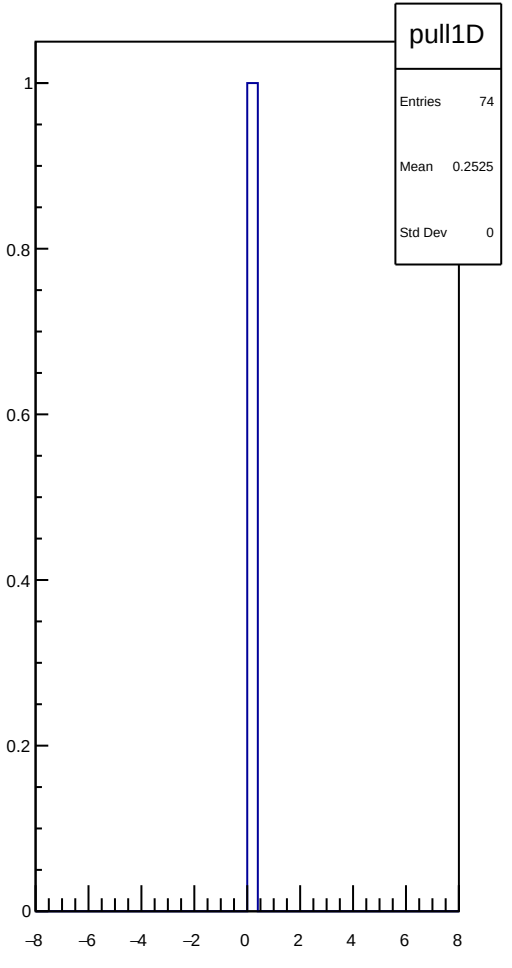

pull1D
Entries 74
Mean 0
Std Dev 0

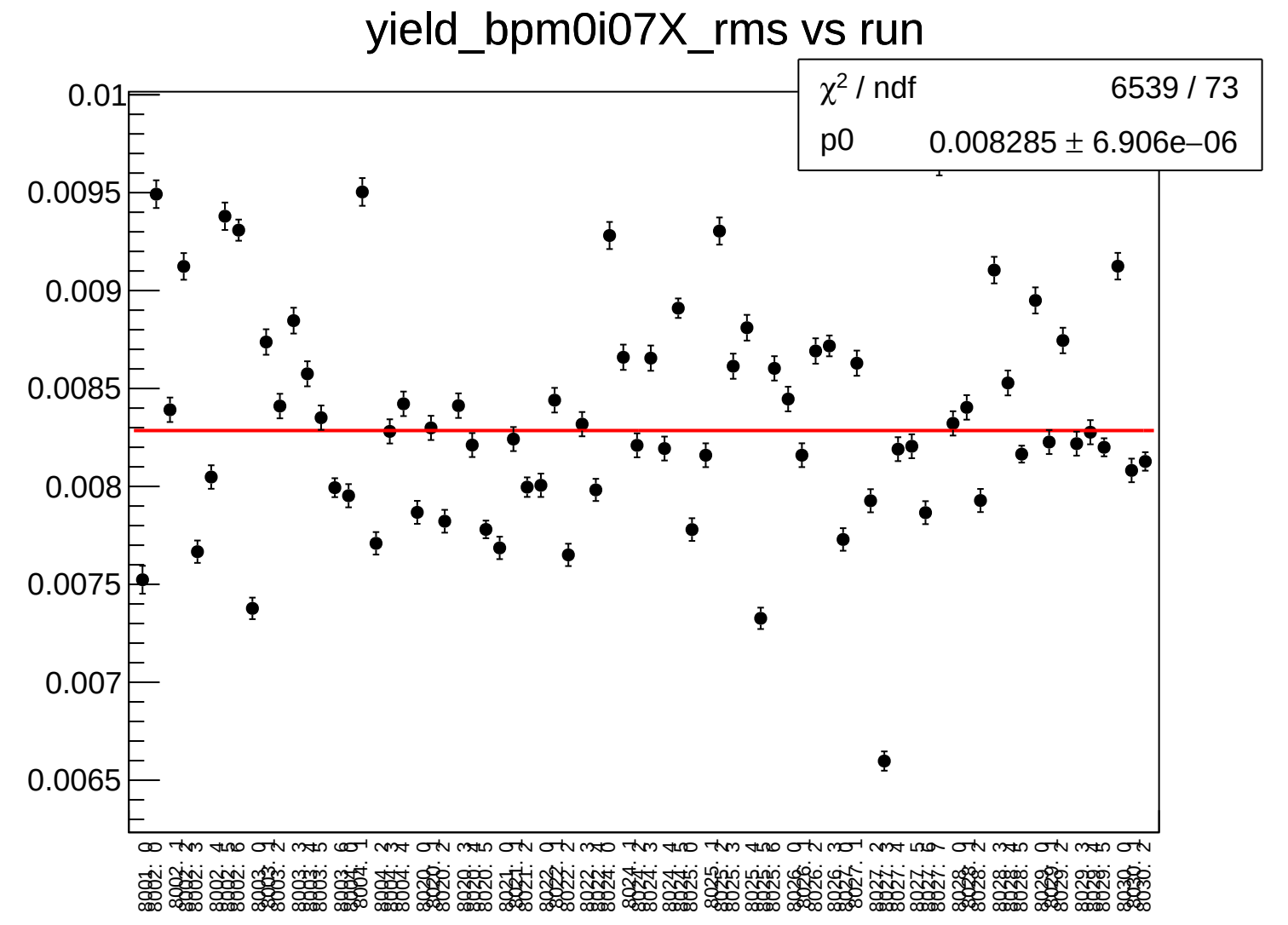

yield_bpm0i05X_rms vs run
χ² / ndf 1.425e+05 / 73
p0 0.005423 ± 4.75e−06
0.025
0.02
0.015
0.01
0.005

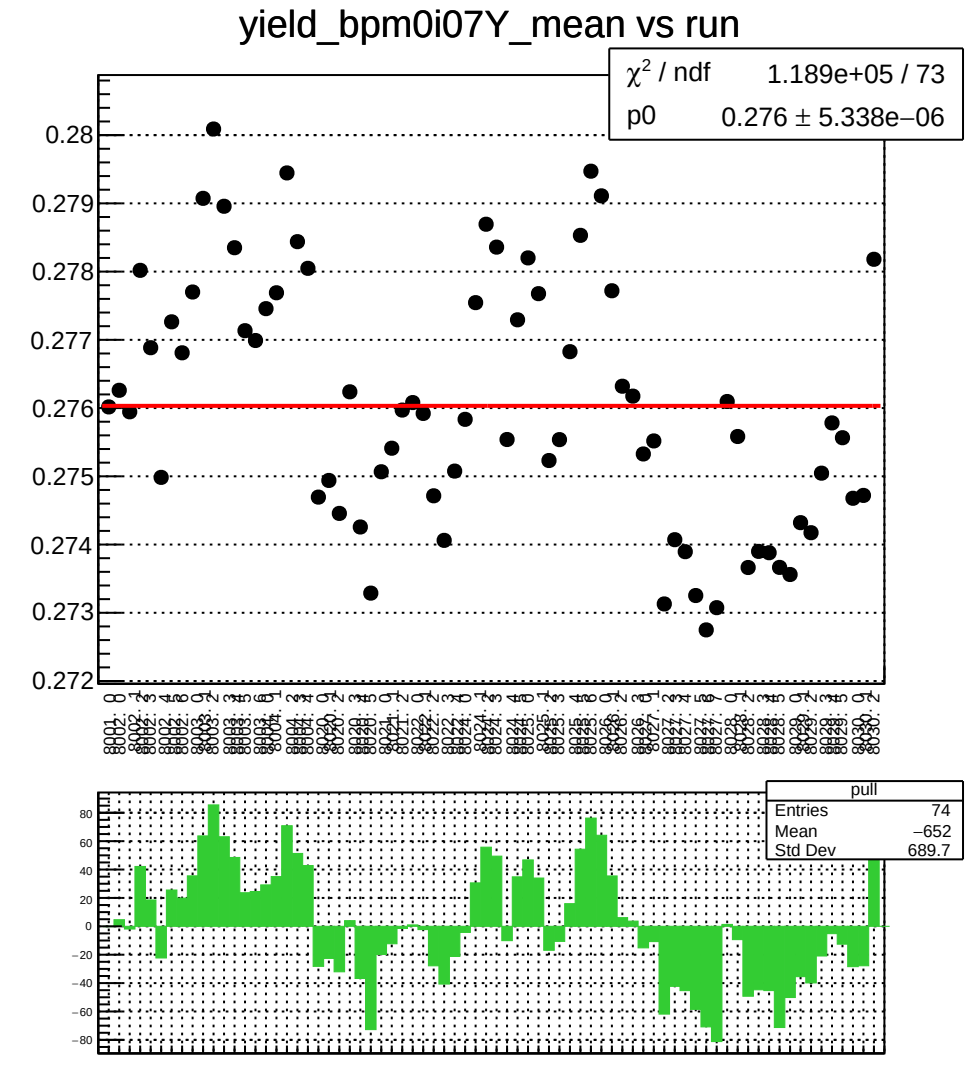

yield_bpm0i05Y_mean vs run
χ² / ndf 6.072e+06 / 73
p0 −1.172 ± 5.235e−06
−1.14
−1.15
−1.16
−1.17
−1.18
−1.19
−1.2
pull
Entries 74
Mean −221
Std Dev 256.9
600
400
200
0
−200
−400
−600
pull1D
Entries 74
Mean 2.625
Std Dev 4.101
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

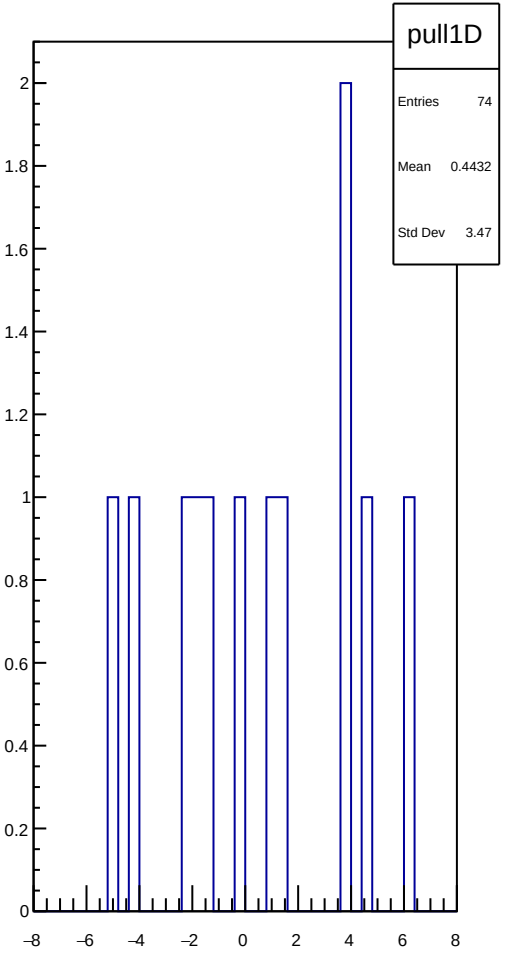

yield_bpm0i05Y_rms vs run
χ² / ndf 1.464e+05 / 73
p0 0.00422 ± 3.702e–06
0.035
0.03
0.025
0.02
0.015
0.01
0.005

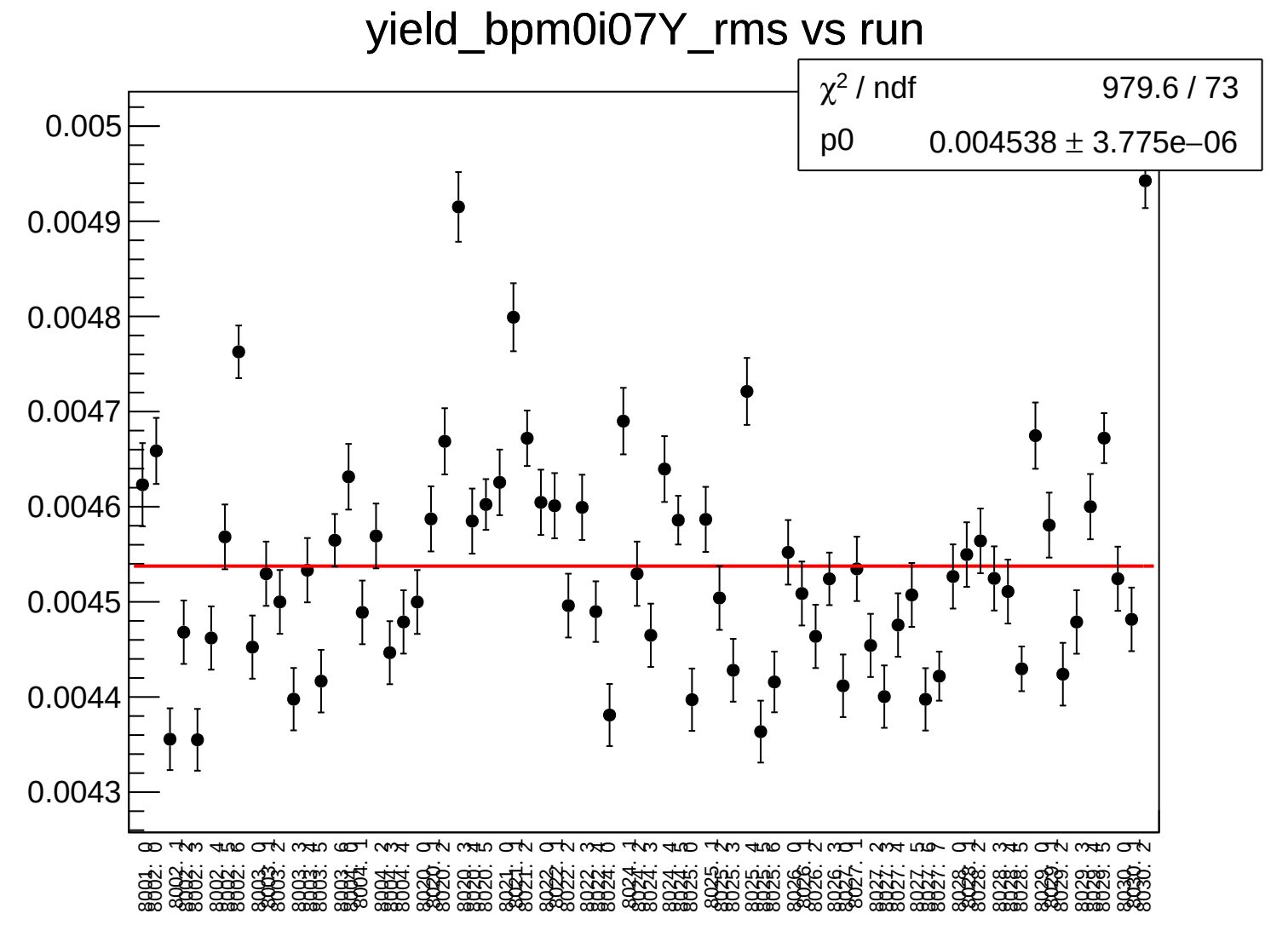

yield_bpm0i07X_mean vs run
χ² / ndf 1.304e+06 / 73
p0 −2.649 ± 9.766e−06
−2.63
−2.635
−2.64
−2.645
−2.65
−2.655
−2.66
−2.665
−2.67
pull
Entries 74
Mean −1396
Std Dev 1441
200
100
0
−100
−200

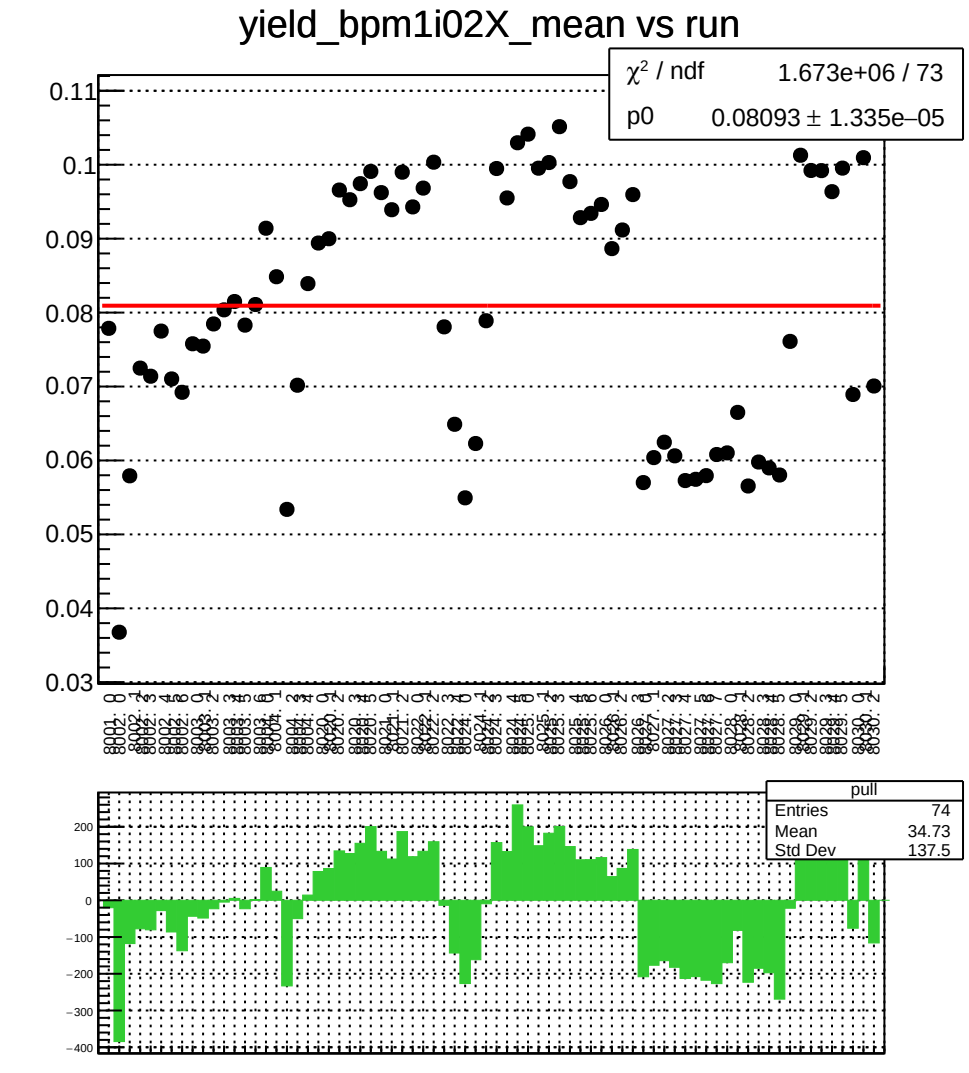

pull1D
Entries 74
Mean 0.2525
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

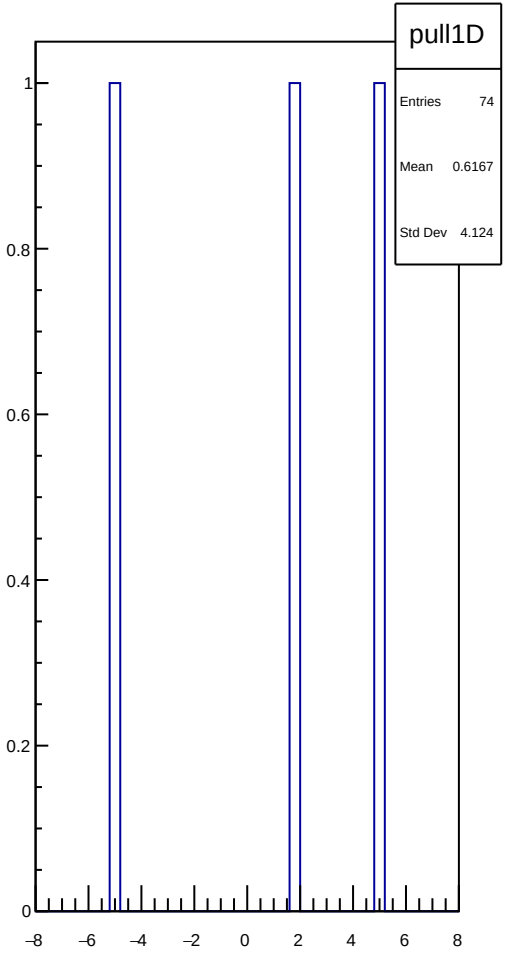

yield_bpm0i07X_rms vs run
χ² / ndf 6539 / 73
p0 0.008285 ± 6.906e−06
0.01
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065

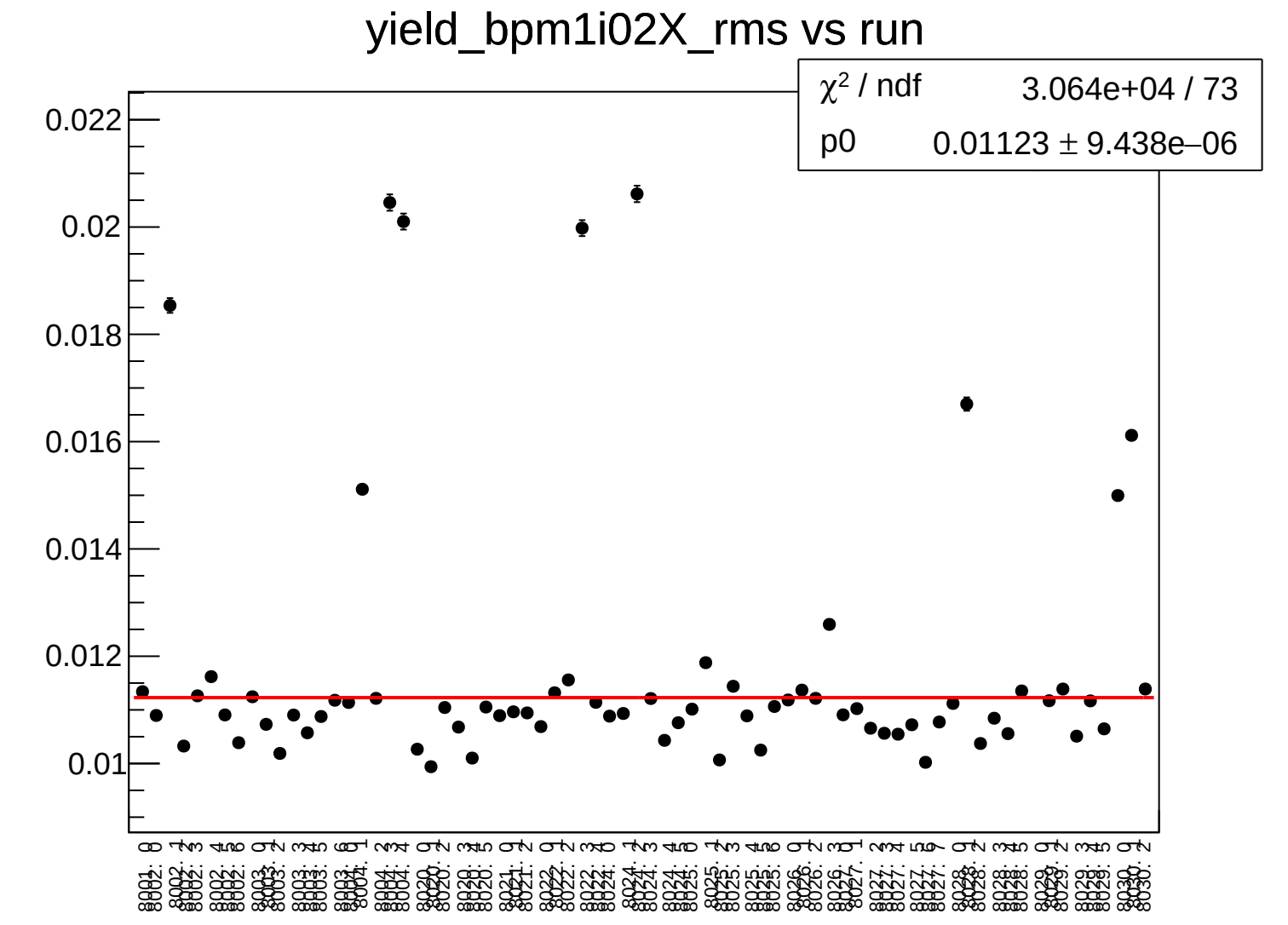

yield_bpm0i07Y_mean vs run
χ² / ndf 1.189e+05 / 73
p0 0.276 ± 5.338e−06
0.28
0.279
0.278
0.277
0.276
0.275
0.274
0.273
0.272
pull
Entries 74
Mean −652
Std Dev 689.7
80
60
40
20
0
−20
−40
−60
−80

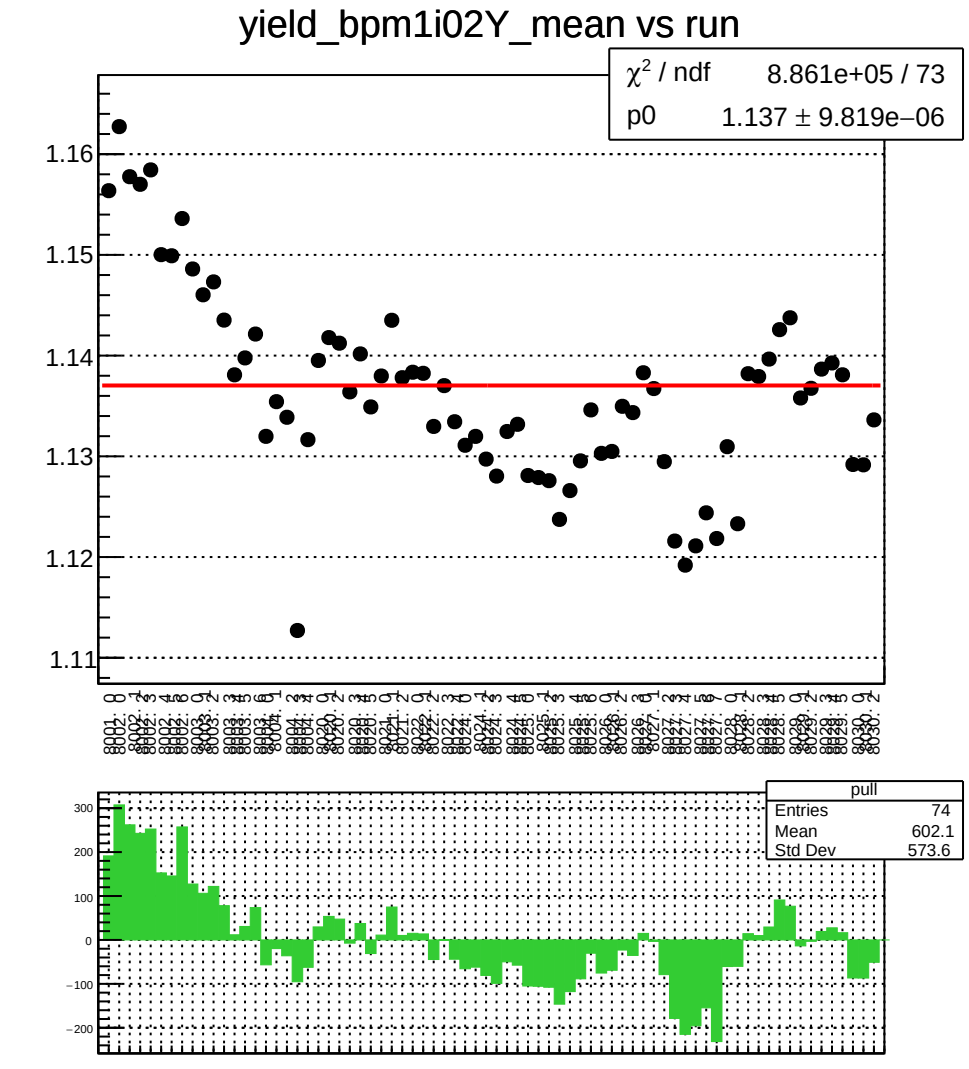

pull1D
Entries 74
Mean 0.4432
Std Dev 3.47
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

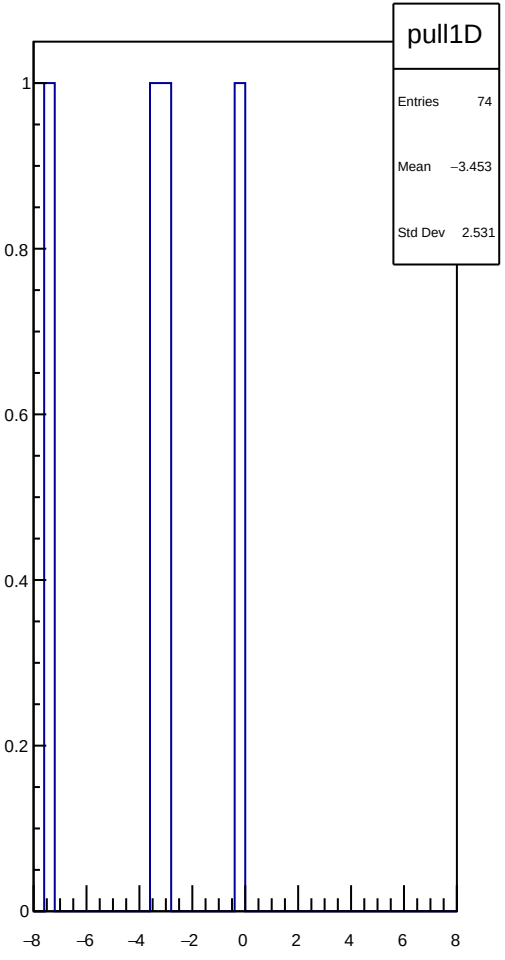

yield_bpm0i07Y_rms vs run
χ² / ndf 979.6 / 73
p0 0.004538 ± 3.775e−06
0.005
0.0049
0.0048
0.0047
0.0046
0.0045
0.0044
0.0043

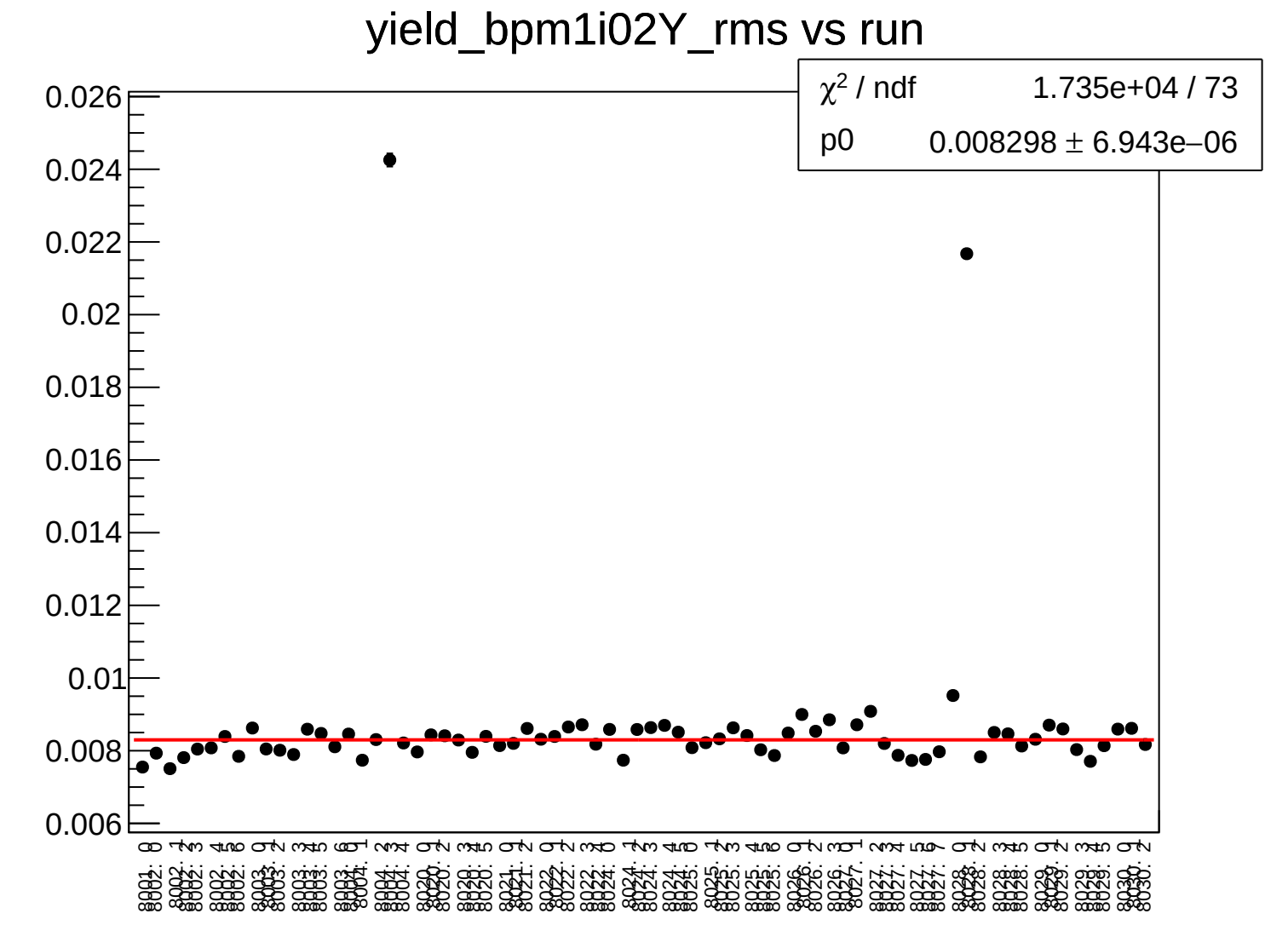

yield_bpm1i02X_mean vs run
χ² / ndf 1.673e+06 / 73
p0 0.08093 ± 1.335e−05
pull
Entries 74
Mean 34.73
Std Dev 137.5

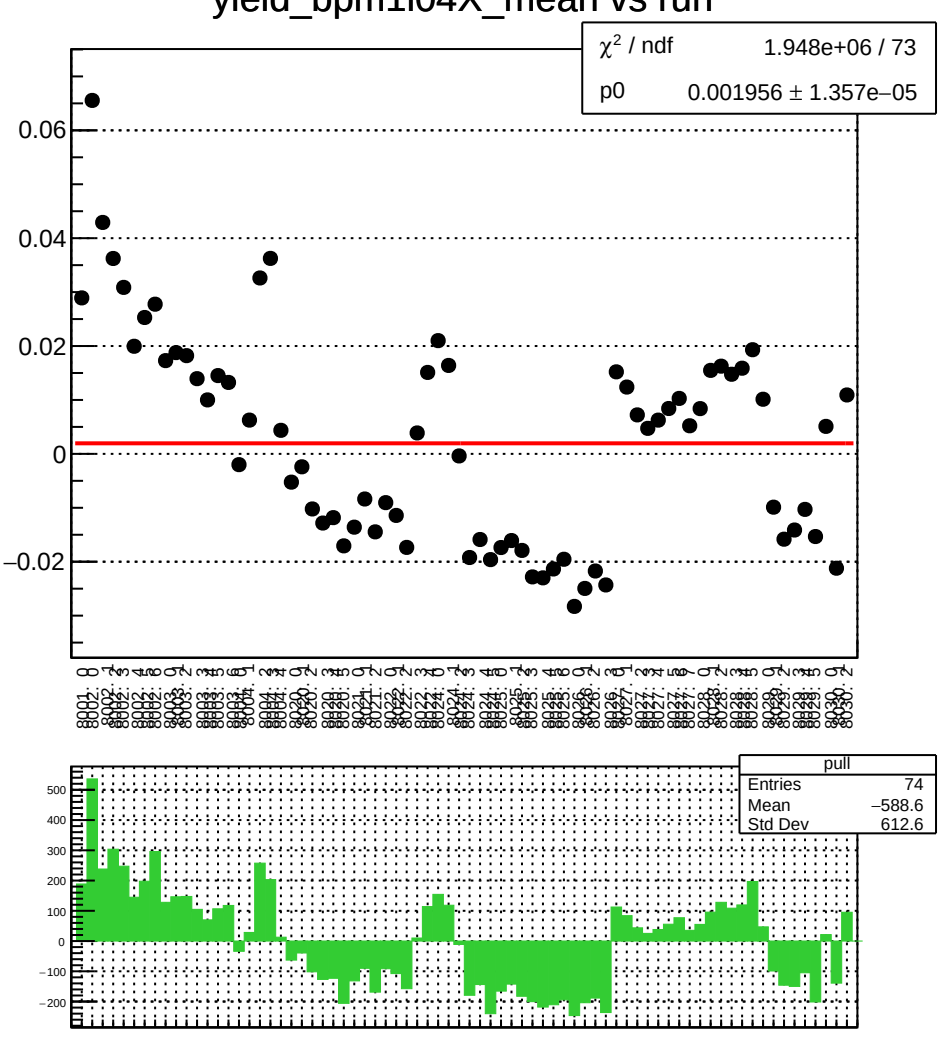

pull1D
Entries 74
Mean 0.6167
Std Dev 4.124

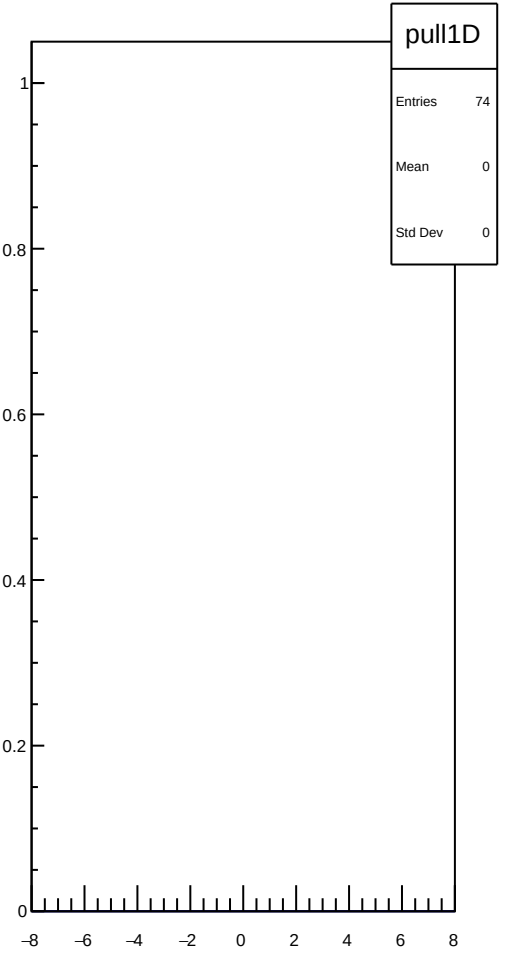

yield_bpm1i02X_rms vs run
χ² / ndf 3.064e+04 / 73
p0 0.01123 ± 9.438e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

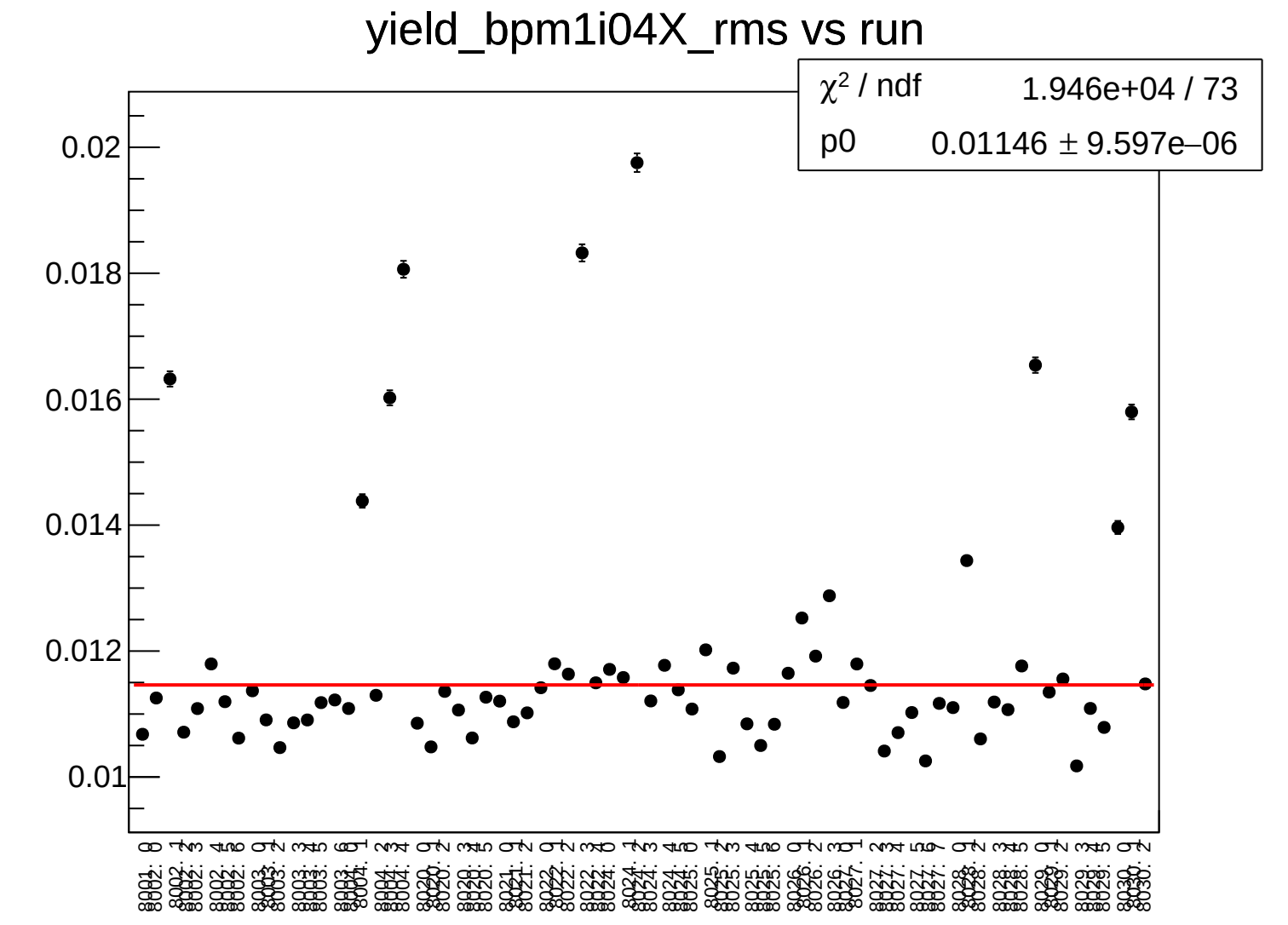

yield_bpm1i02Y_mean vs run
χ² / ndf 8.861e+05 / 73
p0 1.137 ± 9.819e−06
1.16
1.15
1.14
1.13
1.12
1.11
pull
Entries 74
Mean 602.1
Std Dev 573.6
300
200
100
0
−100
−200

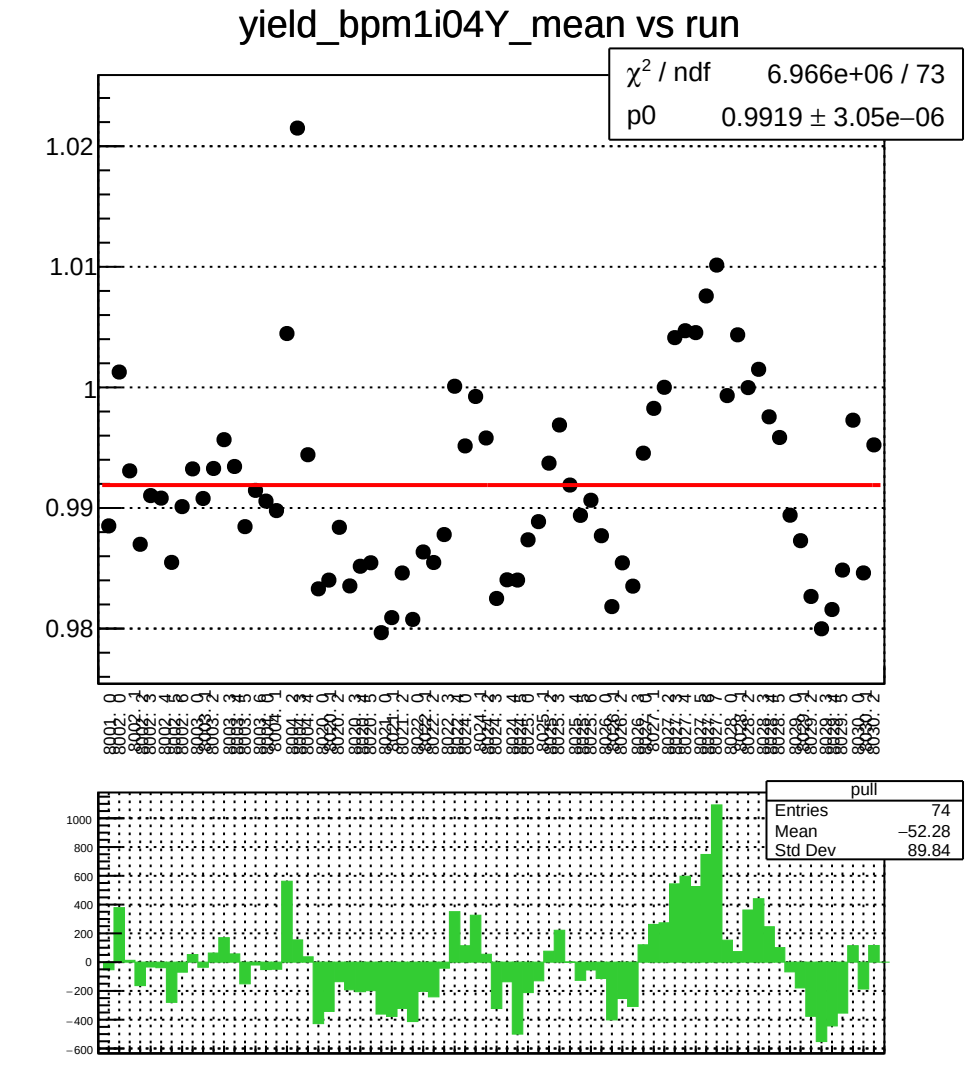

pull1D
Entries 74
Mean −3.453
Std Dev 2.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

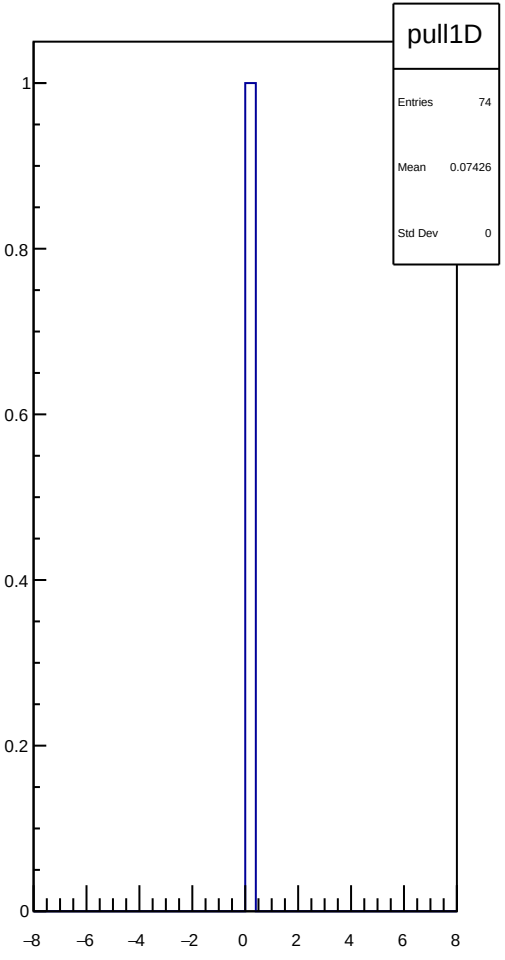

yield_bpm1i02Y_rms vs run
χ² / ndf 1.735e+04 / 73
p0 0.008298 ± 6.943e−06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

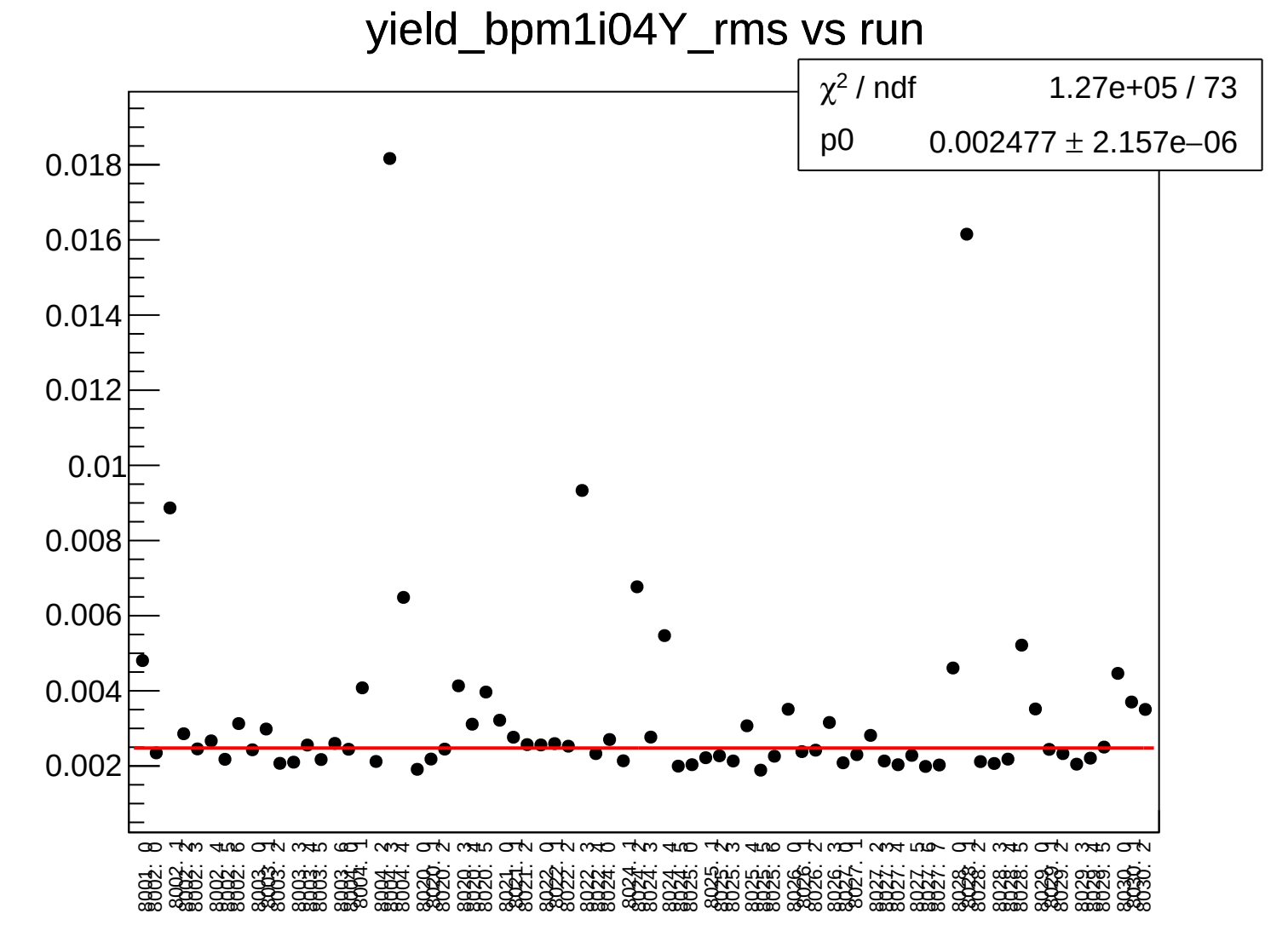

yield_bpm1i04X_mean vs run
χ² / ndf 1.948e+06 / 73
p0 0.001956 ± 1.357e−05
0.06
0.04
0.02
0
−0.02
pull
Entries 74
Mean −588.6
Std Dev 612.6
500
400
300
200
100
0
−100
−200

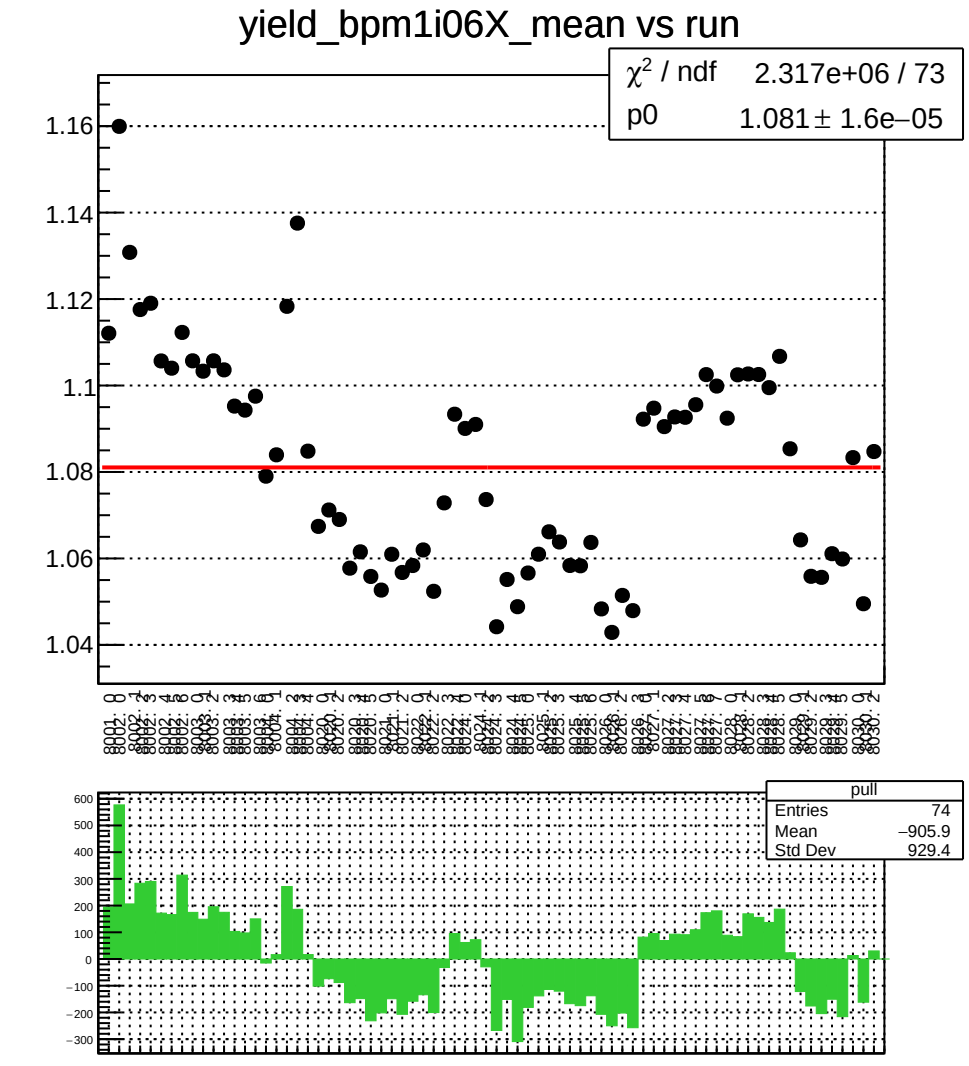

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

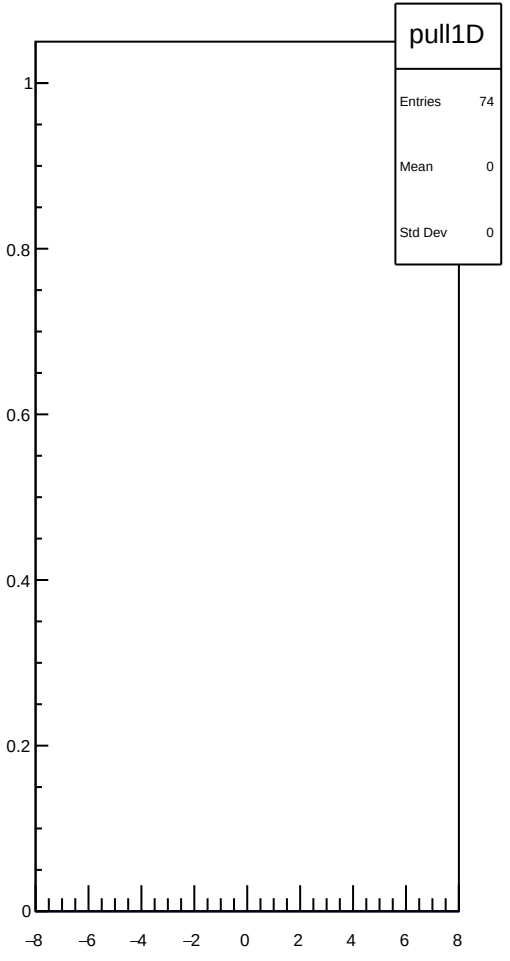

yield_bpm1i04X_rms vs run
χ² / ndf 1.946e+04 / 73
p0 0.01146 ± 9.597e–06
0.02
0.018
0.016
0.014
0.012
0.01

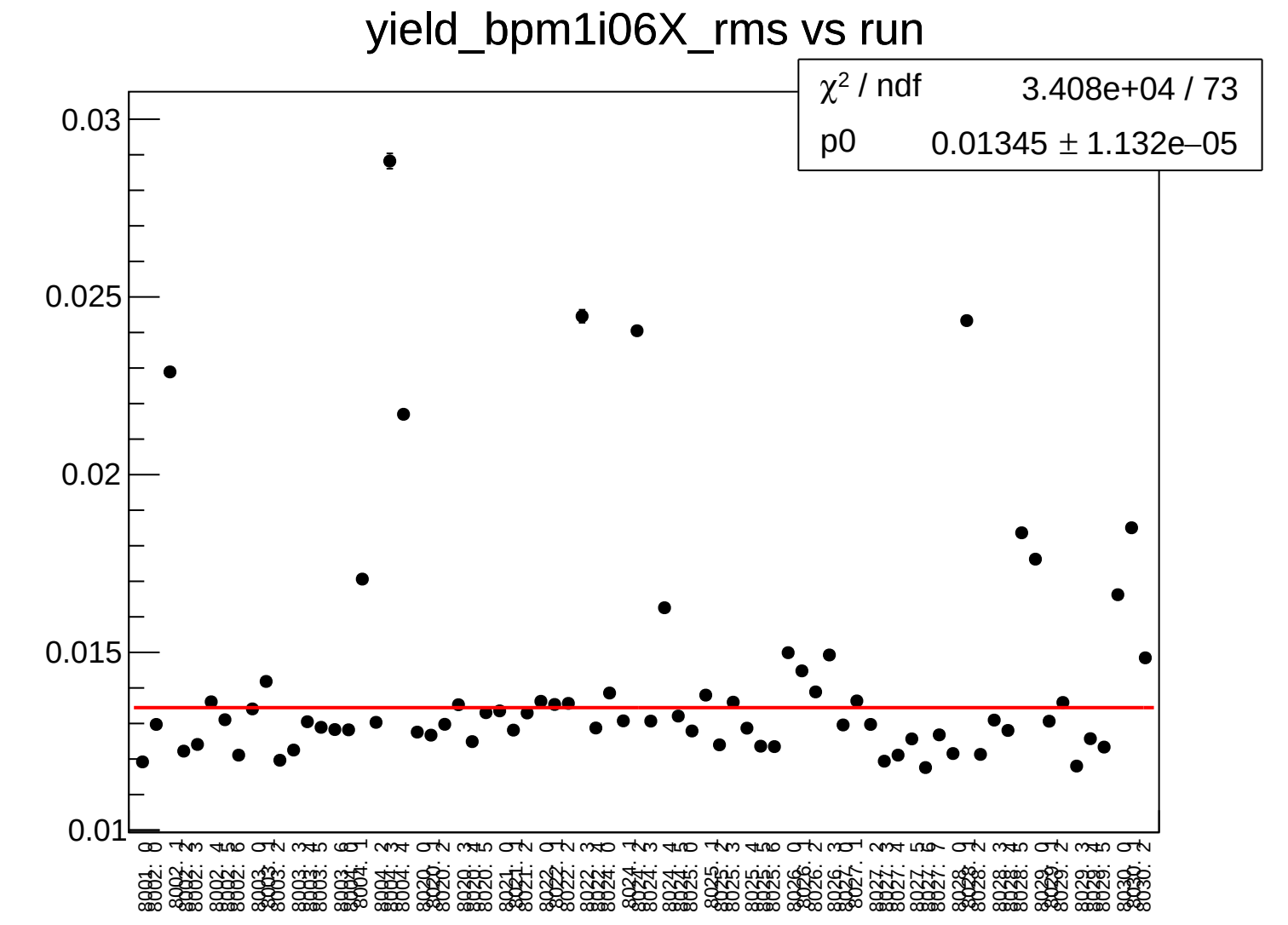

yield_bpm1i04Y_mean vs run
χ² / ndf 6.966e+06 / 73
p0 0.9919 ± 3.05e−06
1.02
1.01
1
0.99
0.98
pull
Entries 74
Mean −52.28
Std Dev 89.84
1000
800
600
400
200
0
−200
−400
−600

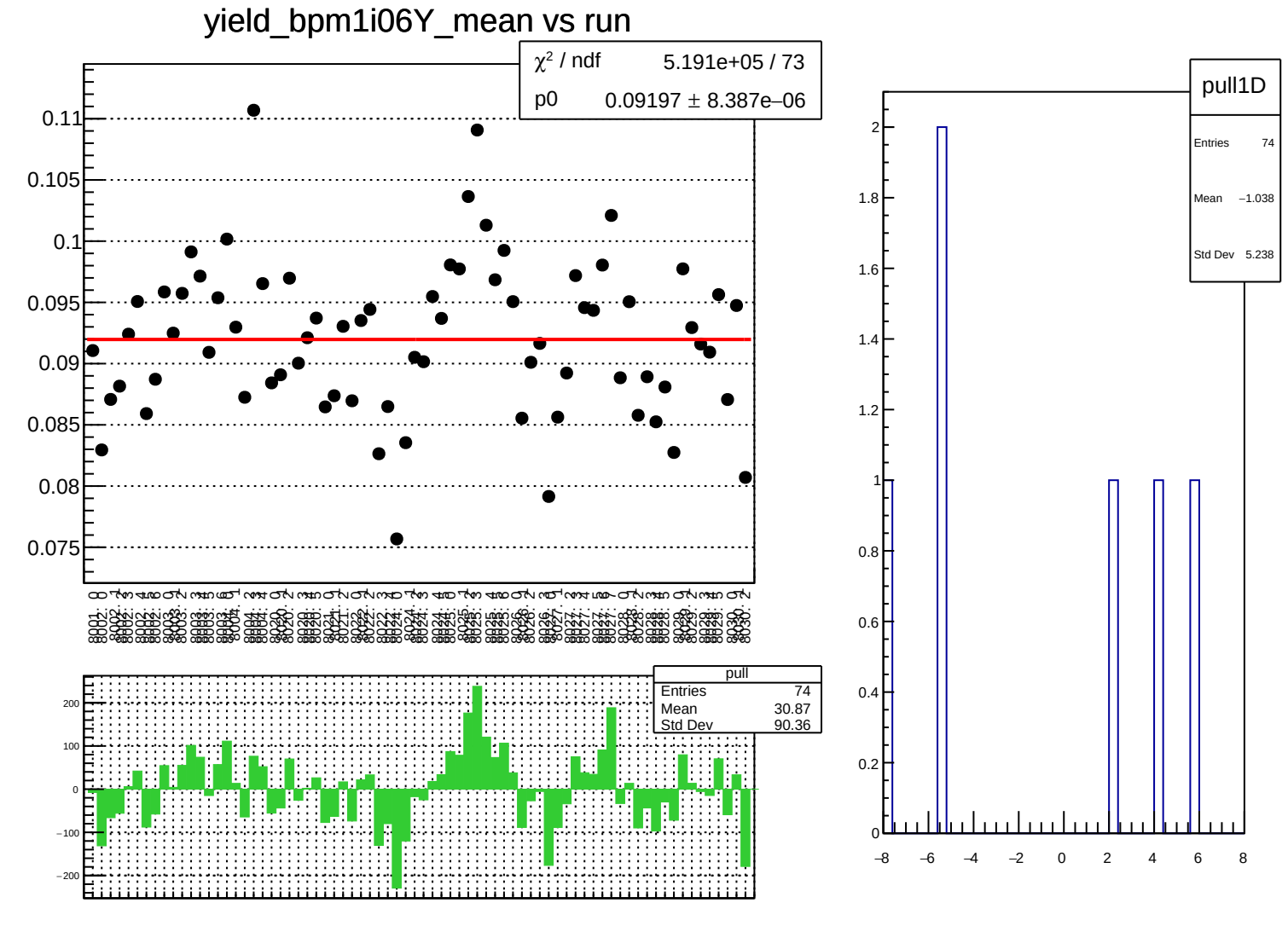

pull1D
Entries 74
Mean 0.07426
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

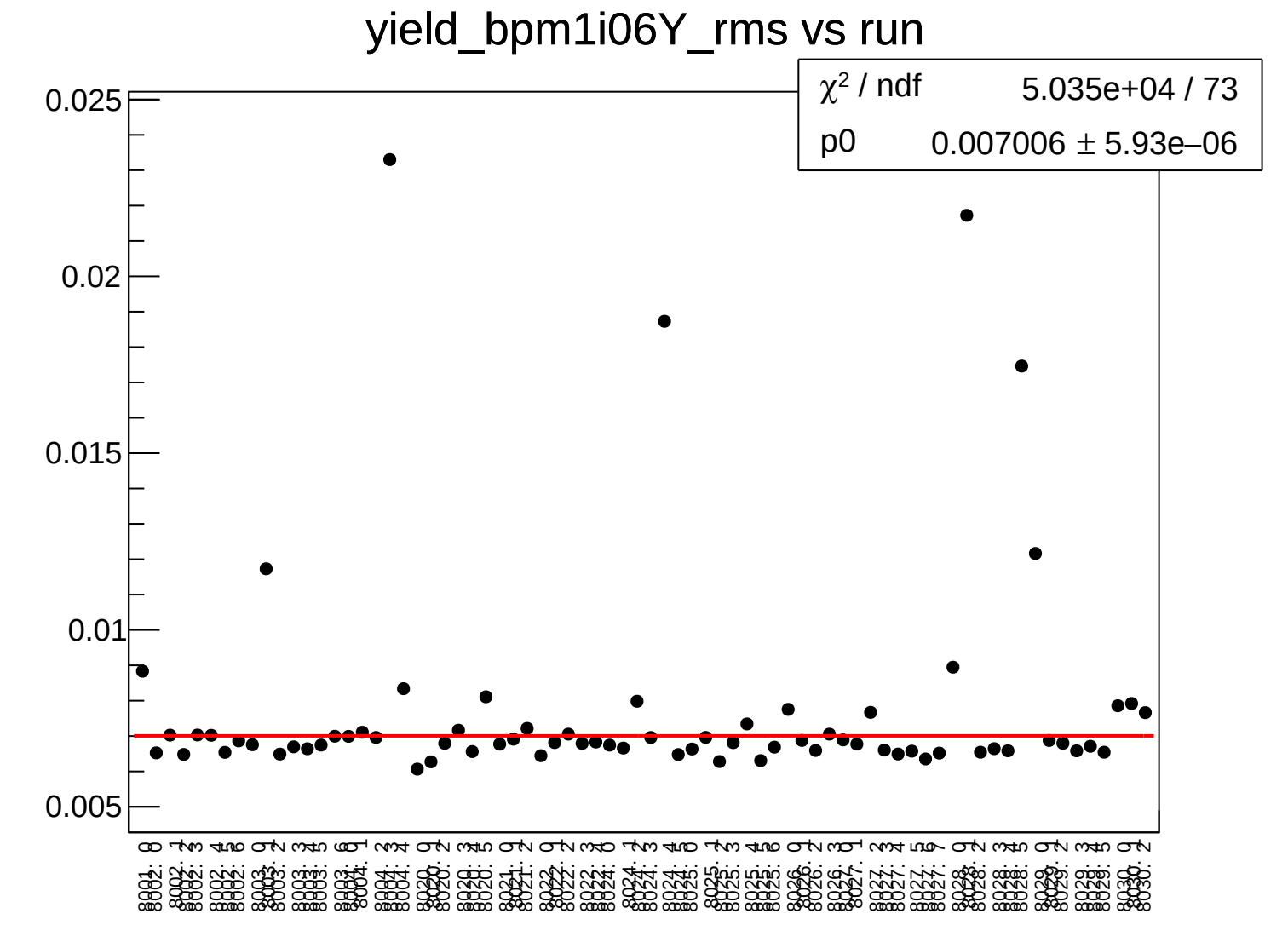

yield_bpm1i04Y_rms vs run
χ² / ndf 1.27e+05 / 73
p0 0.002477 ± 2.157e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

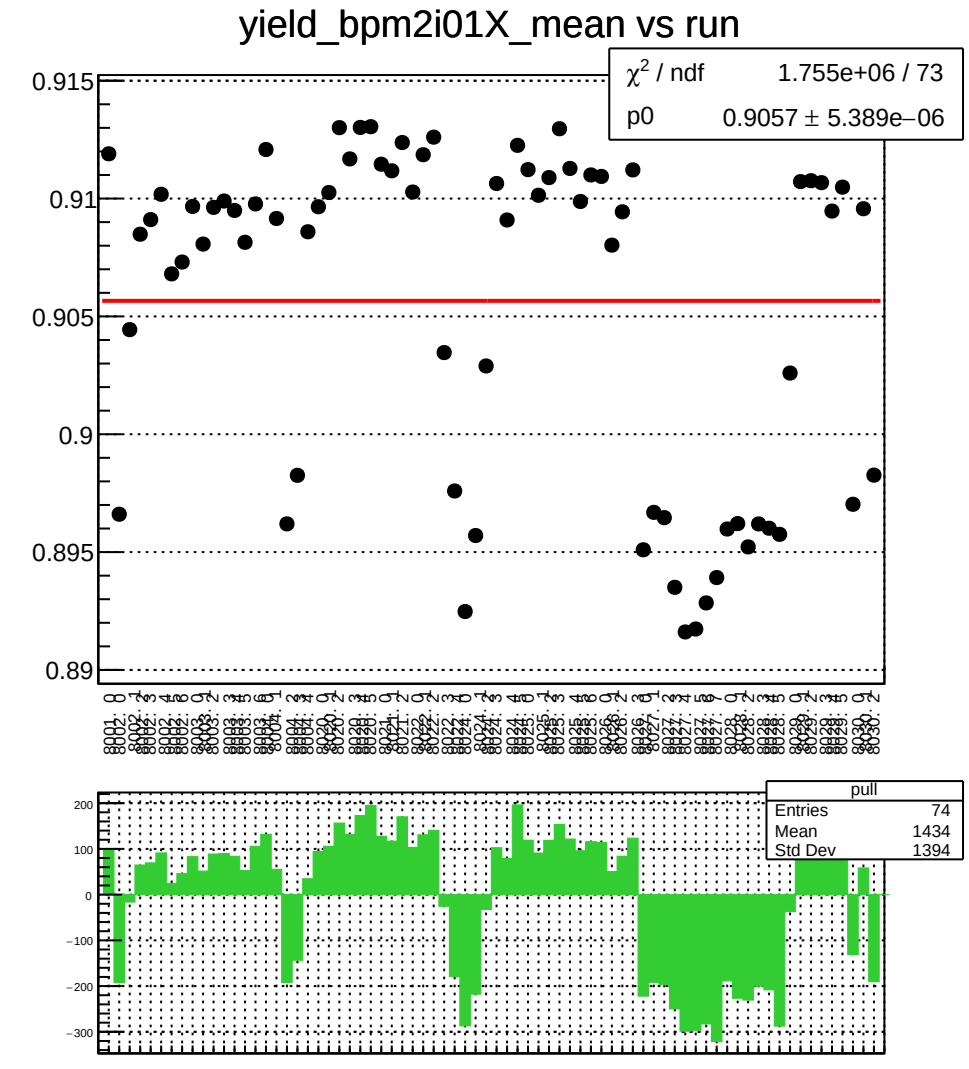

yield_bpm1i06X_mean vs run
χ² / ndf 2.317e+06 / 73
p0 1.081 ± 1.6e−05
1.16
1.14
1.12
1.1
1.08
1.06
1.04
pull
Entries 74
Mean −905.9
Std Dev 929.4
600
500
400
300
200
100
0
−100
−200
−300

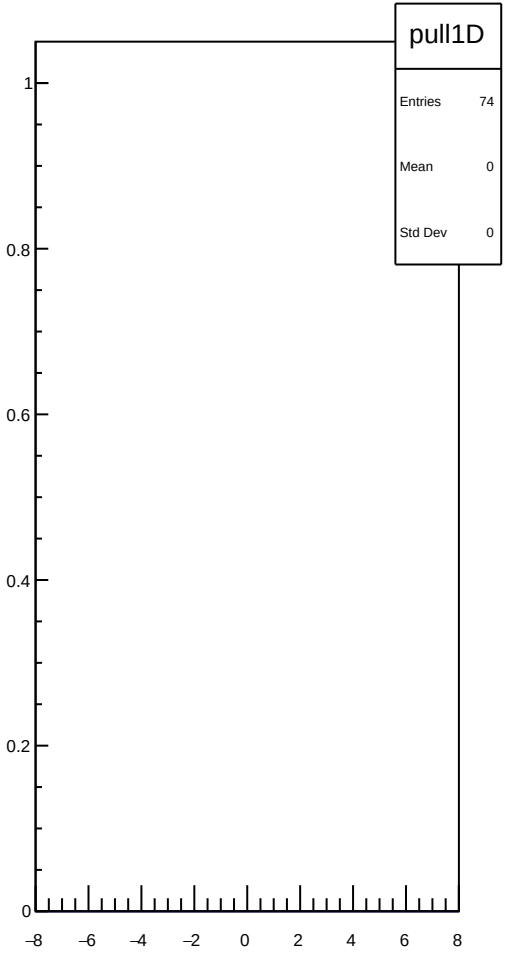

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

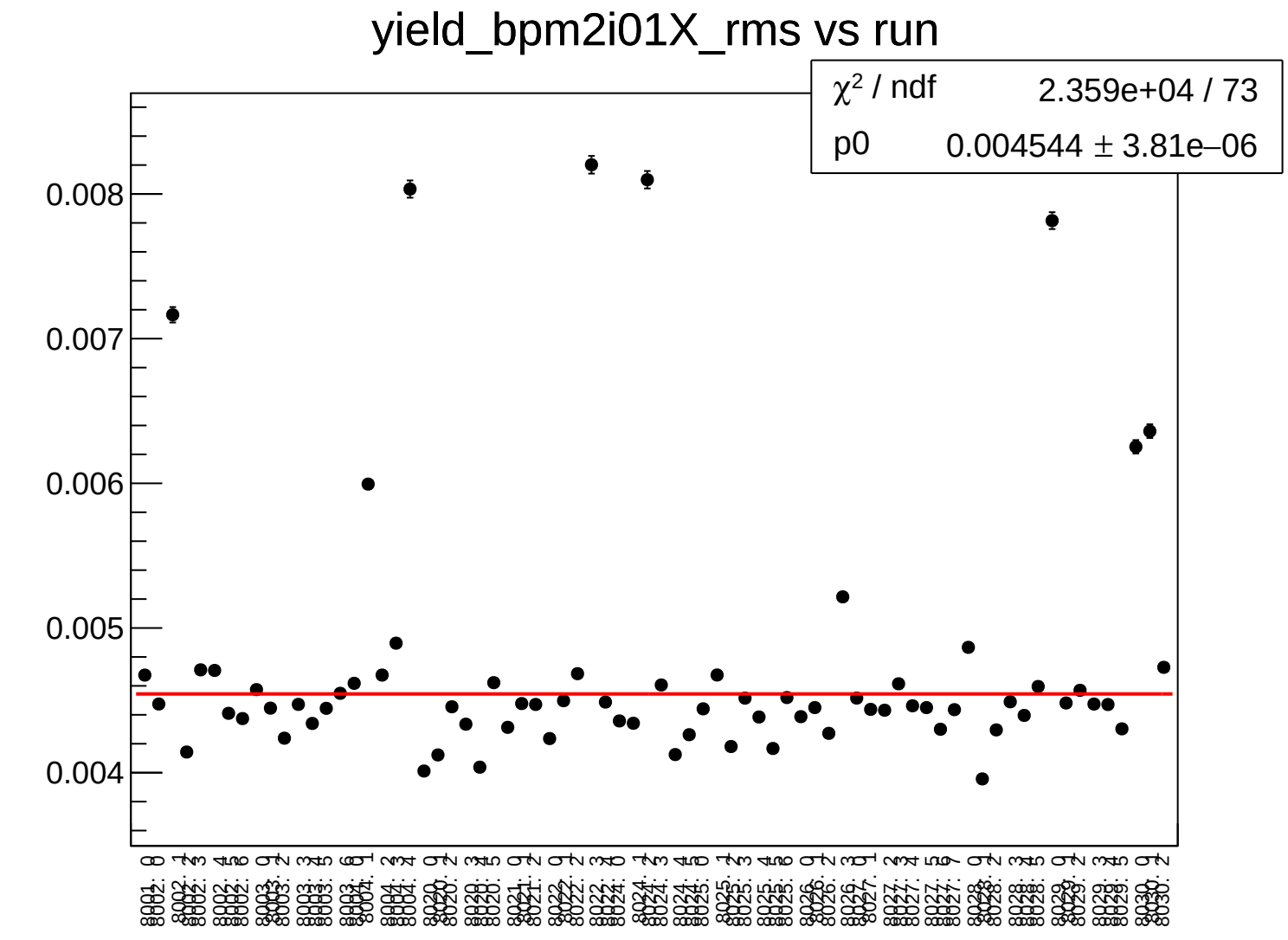

yield_bpm1i06X_rms vs run
χ² / ndf 3.408e+04 / 73
p0 0.01345 ± 1.132e–05
0.03
0.025
0.02
0.015
0.01

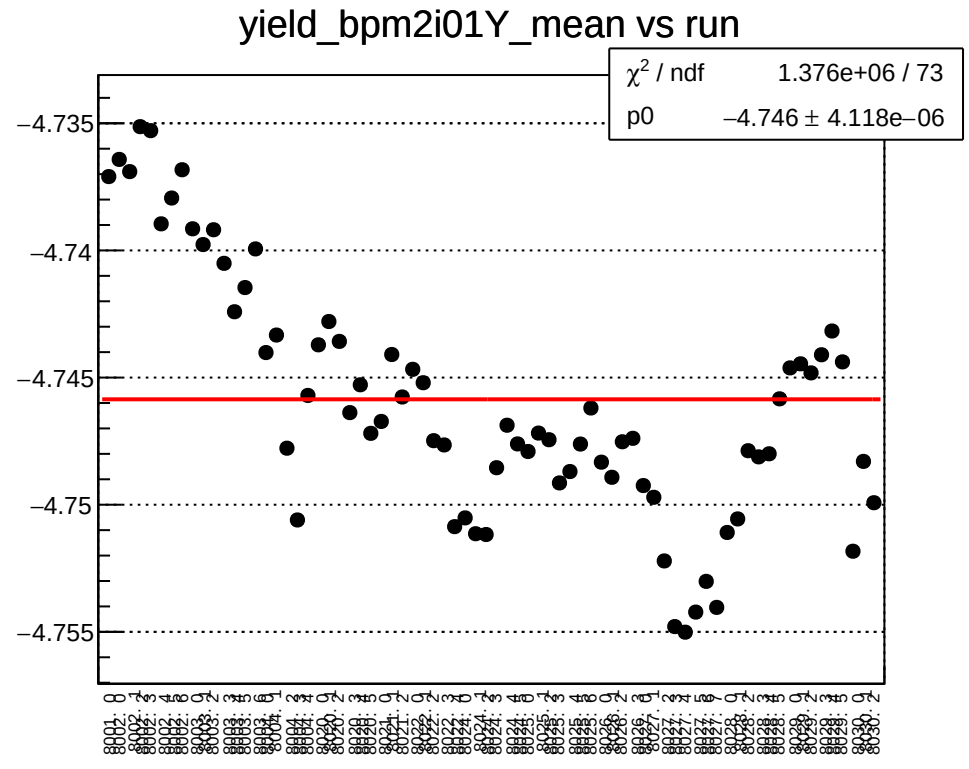

yield_bpm1i06Y_mean vs run
χ² / ndf 5.191e+05 / 73
p0 0.09197 ± 8.387e−06
0.11
0.105
0.1
0.095
0.09
0.085
0.08
0.075
pull
Entries 74
Mean 30.87
Std Dev 90.36
200
100
0
−100
−200
pull1D
Entries 74
Mean −1.038
Std Dev 5.238
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

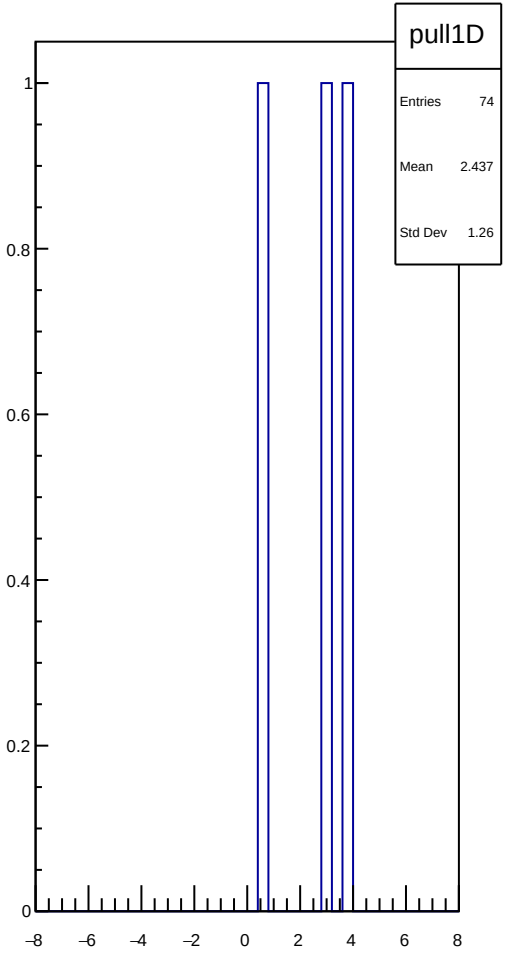

yield_bpm1i06Y_rms vs run
χ² / ndf 5.035e+04 / 73
p0 0.007006 ± 5.93e–06
0.025
0.02
0.015
0.01
0.005

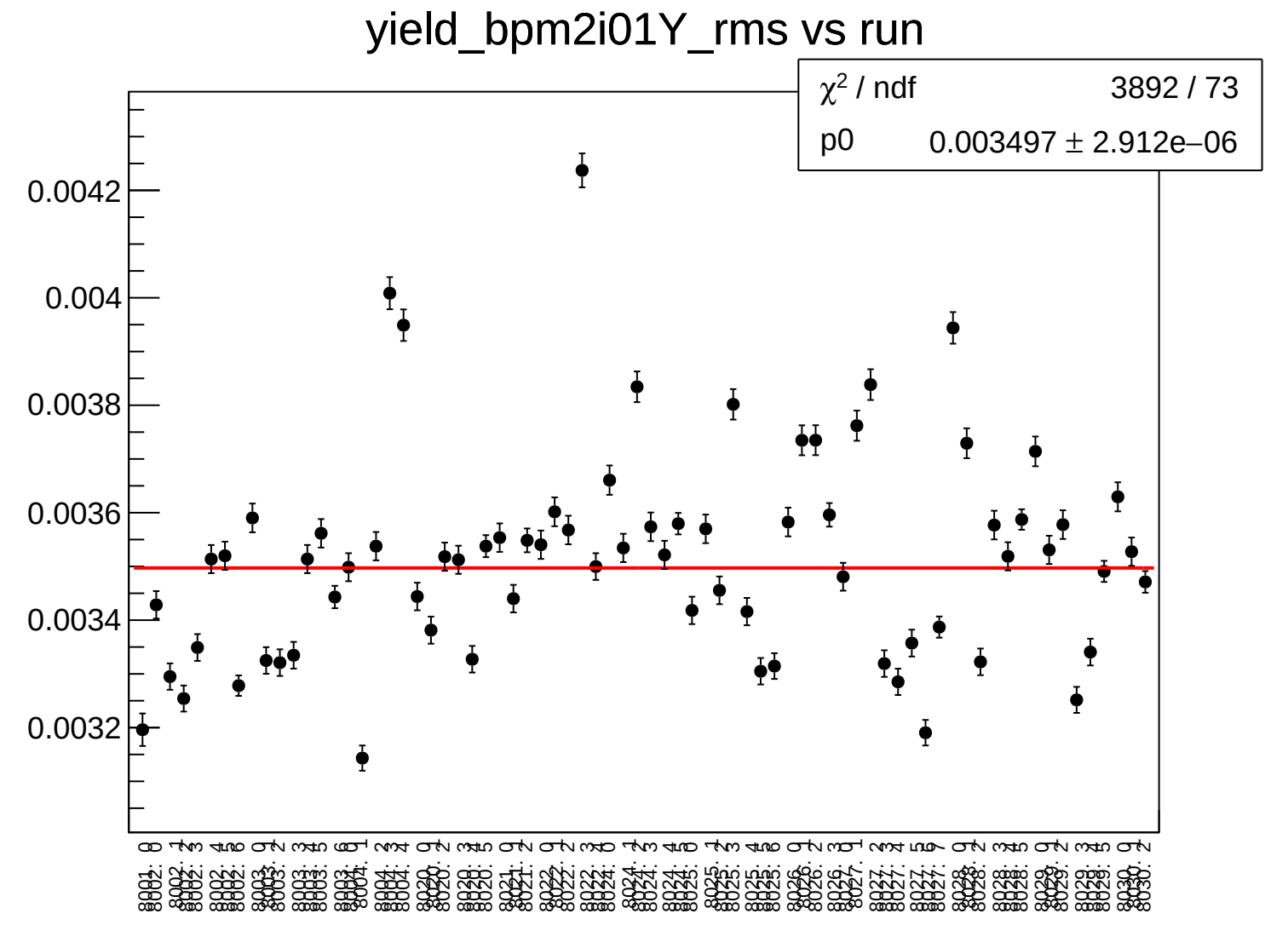

yield_bpm2i01X_mean vs run
χ² / ndf 1.755e+06 / 73
p0 0.9057 ± 5.389e−06
0.915
0.91
0.905
0.9
0.895
0.89
pull
Entries 74
Mean 1434
Std Dev 1394
200
100
0
−100
−200
−300

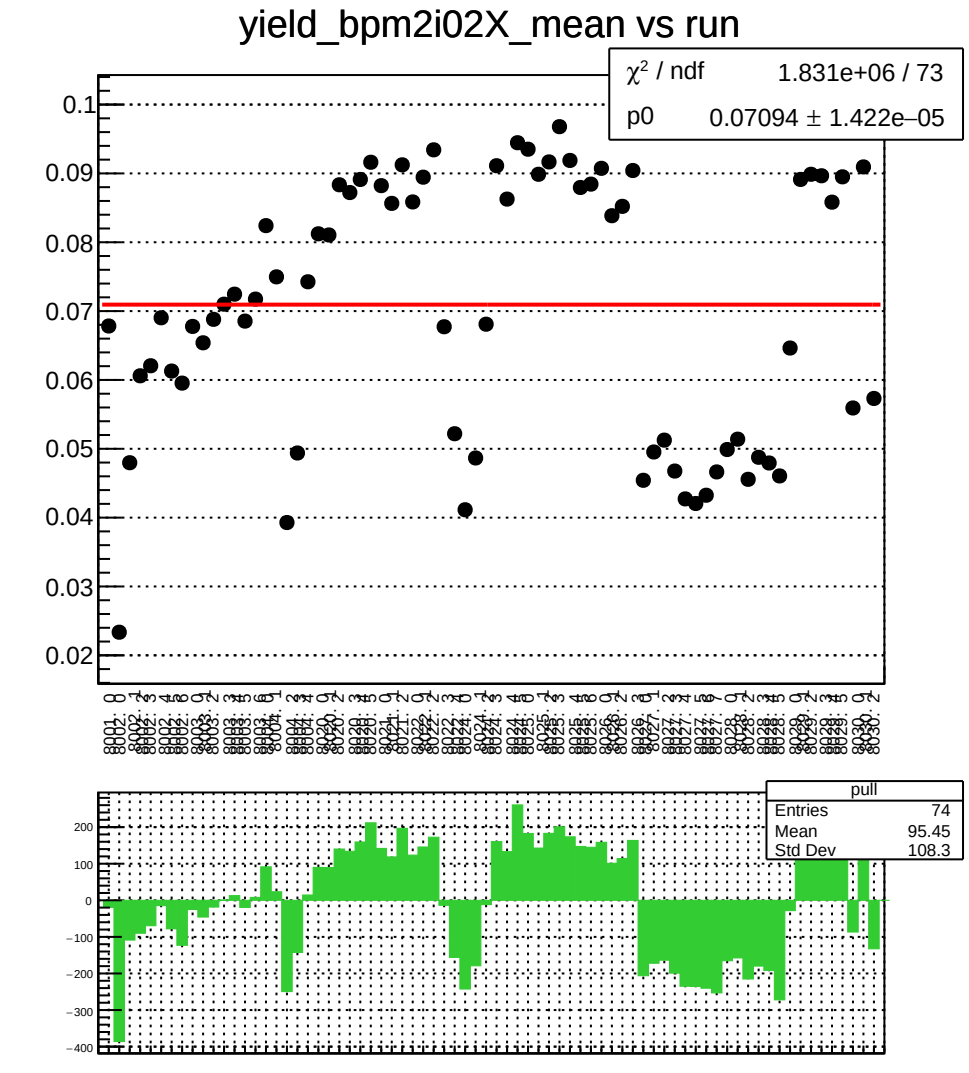

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

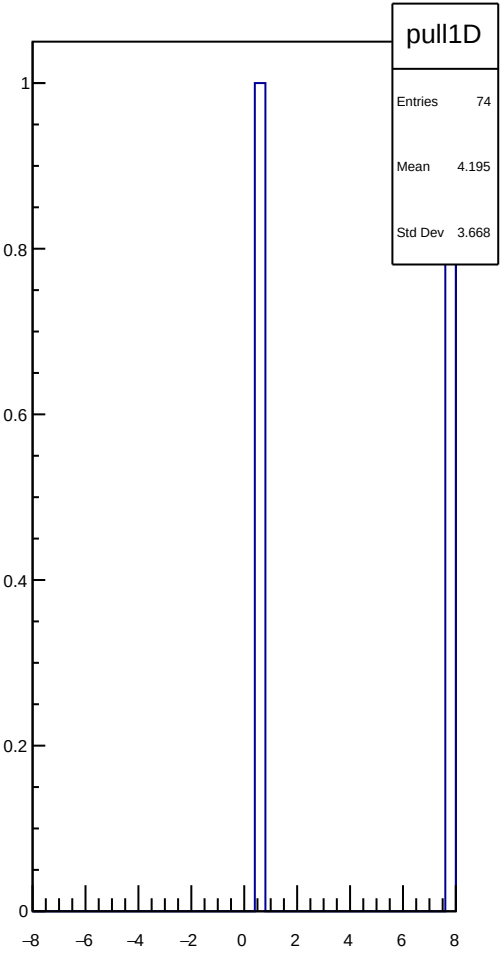

yield_bpm2i01X_rms vs run
χ² / ndf 2.359e+04 / 73
p0 0.004544 ± 3.81e−06
0.008
0.007
0.006
0.005
0.004

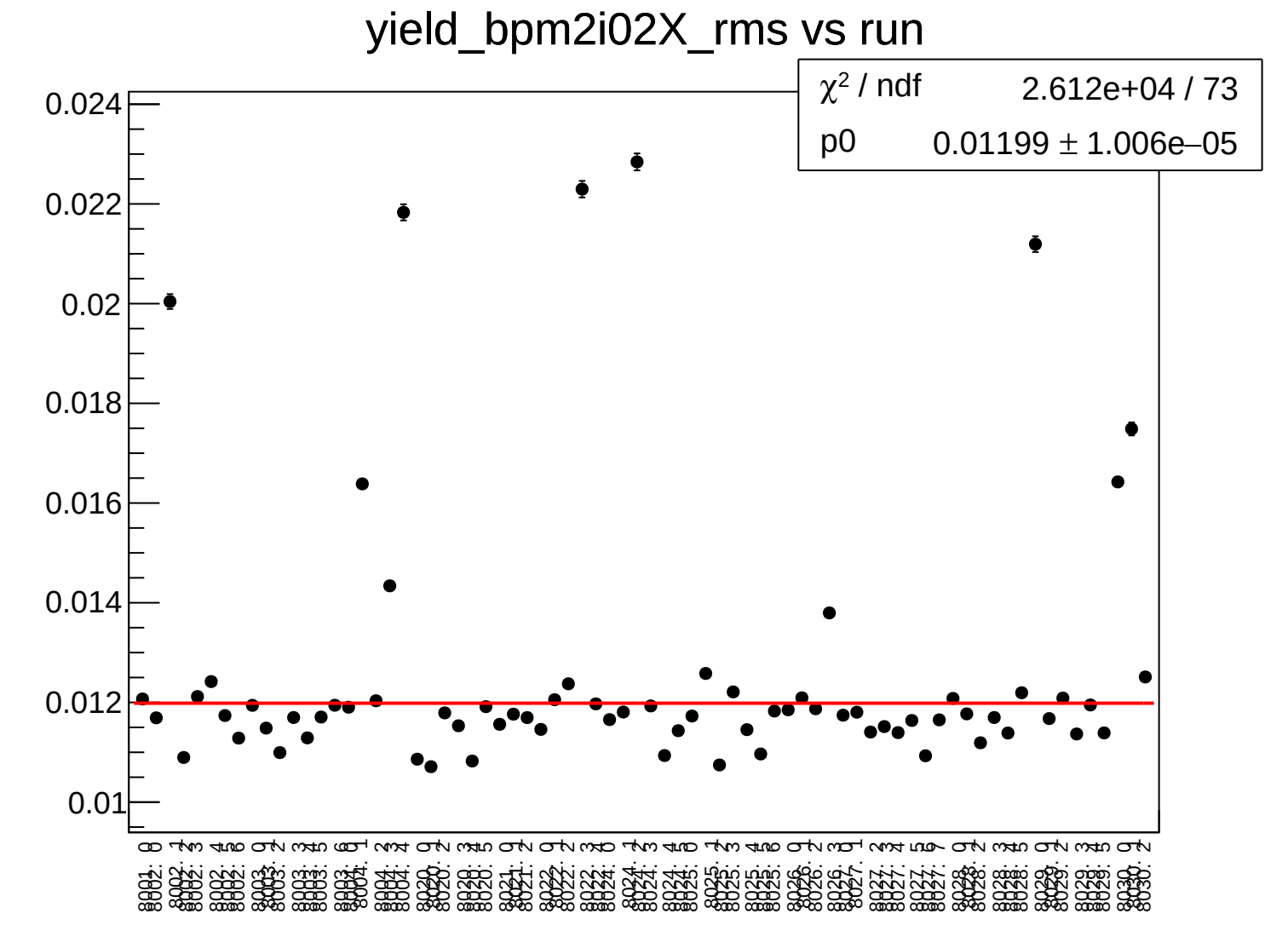

yield_bpm2i01Y_mean vs run
χ² / ndf 1.376e+06 / 73
p0 −4.746 ± 4.118e−06
−4.735
−4.74
−4.745
−4.75
−4.755
pull
Entries 74
Mean 1373
Std Dev 1343
300
200
100
0
−100
−200
−300

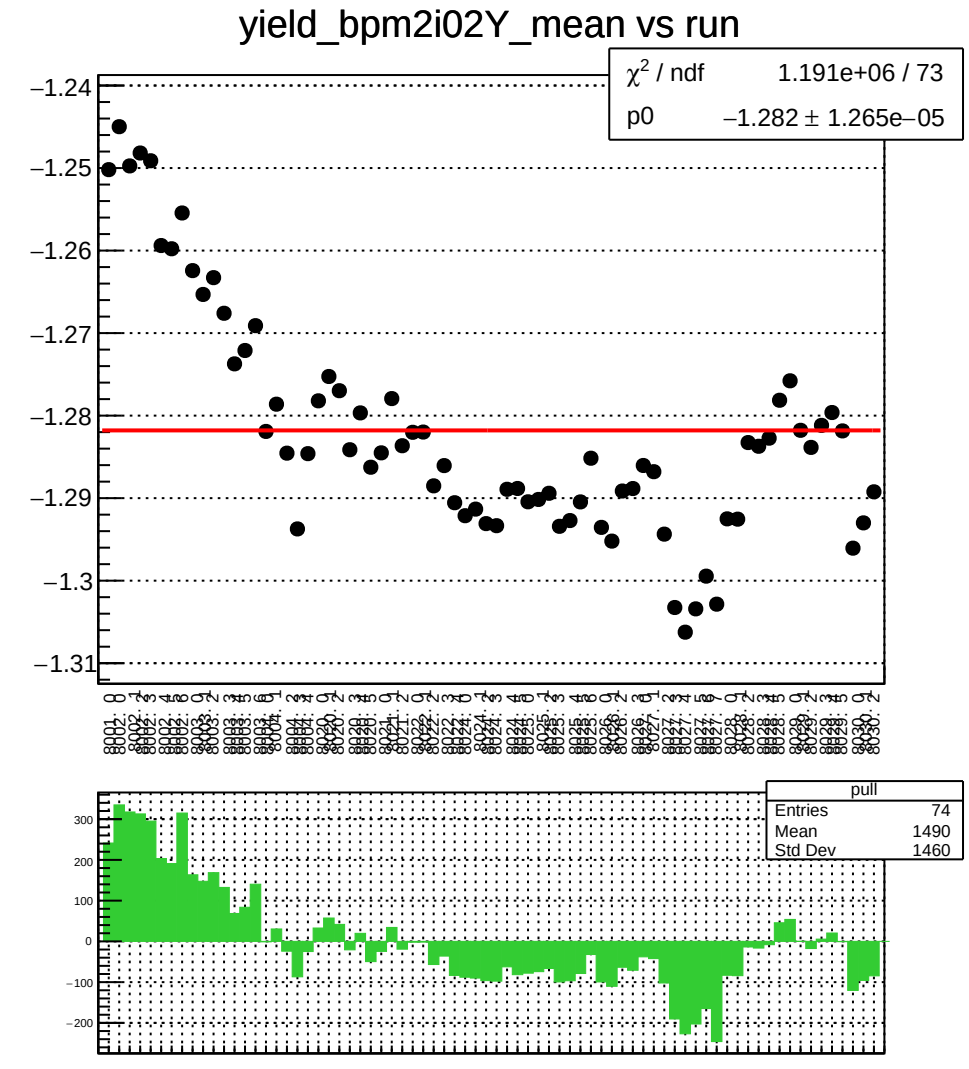

pull1D
Entries 74
Mean 2.437
Std Dev 1.26
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

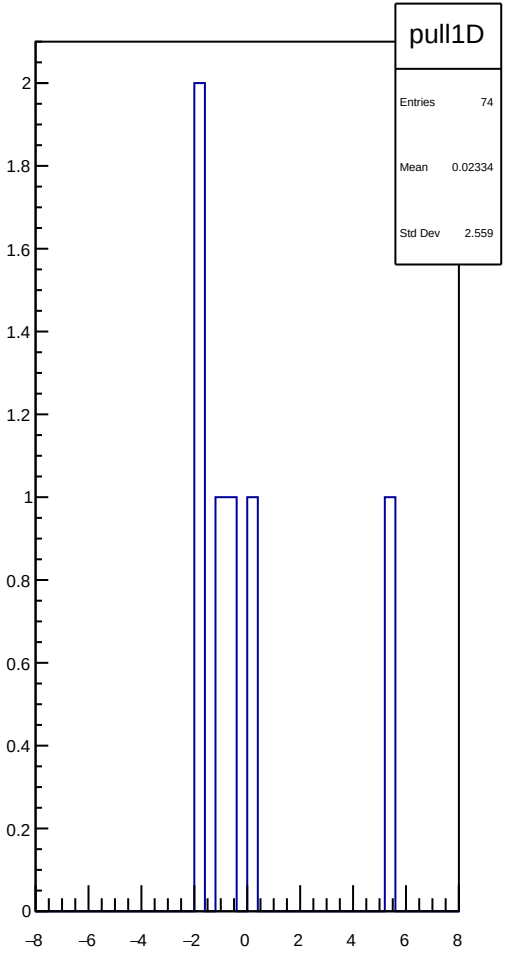

yield_bpm2i01Y_rms vs run
χ² / ndf 3892 / 73
p0 0.003497 ± 2.912e−06
0.0042
0.004
0.0038
0.0036
0.0034
0.0032

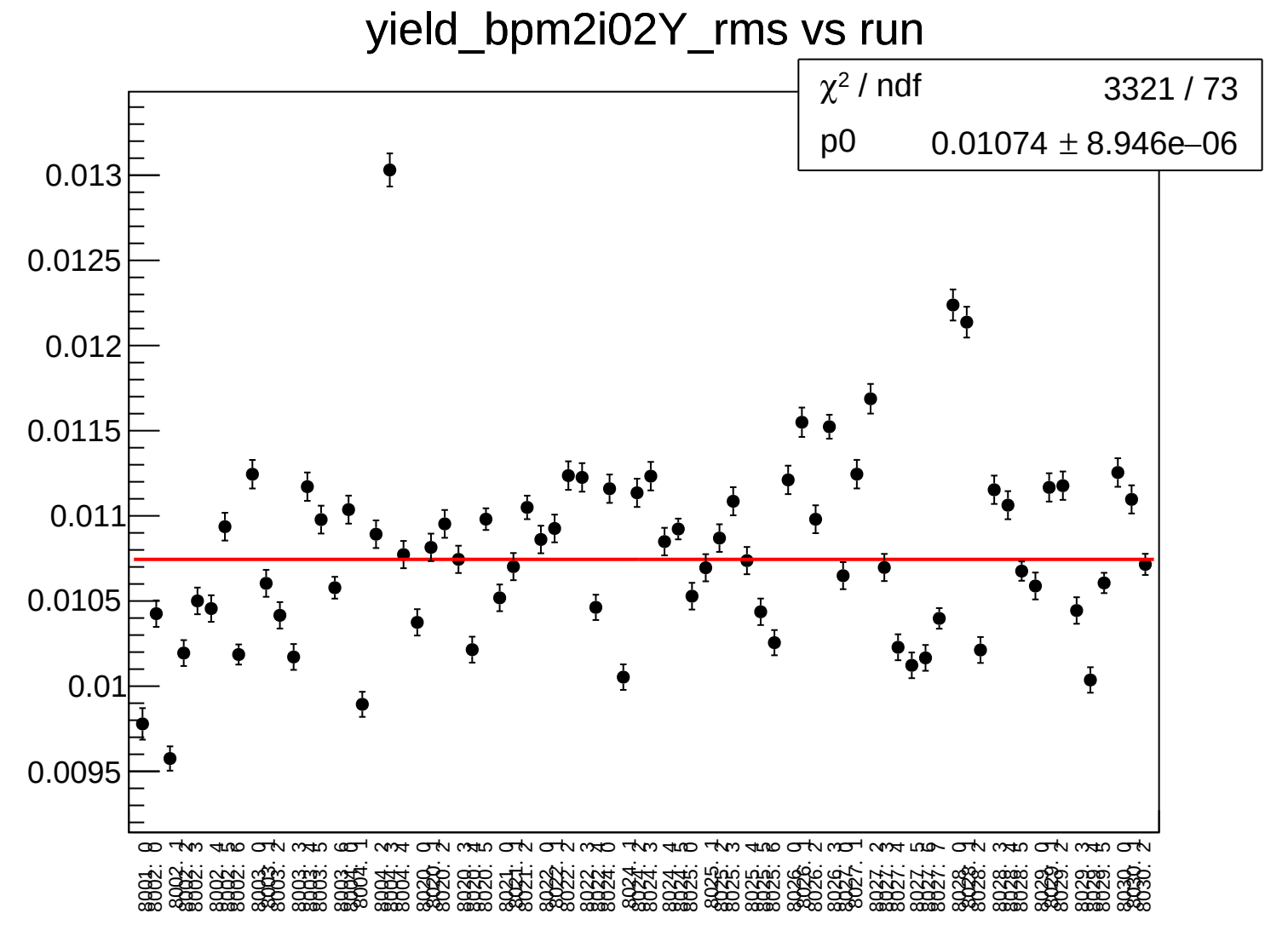

yield_bpm2i02X_mean vs run
χ² / ndf 1.831e+06 / 73
p0 0.07094 ± 1.422e−05
pull
Entries 74
Mean 95.45
Std Dev 108.3

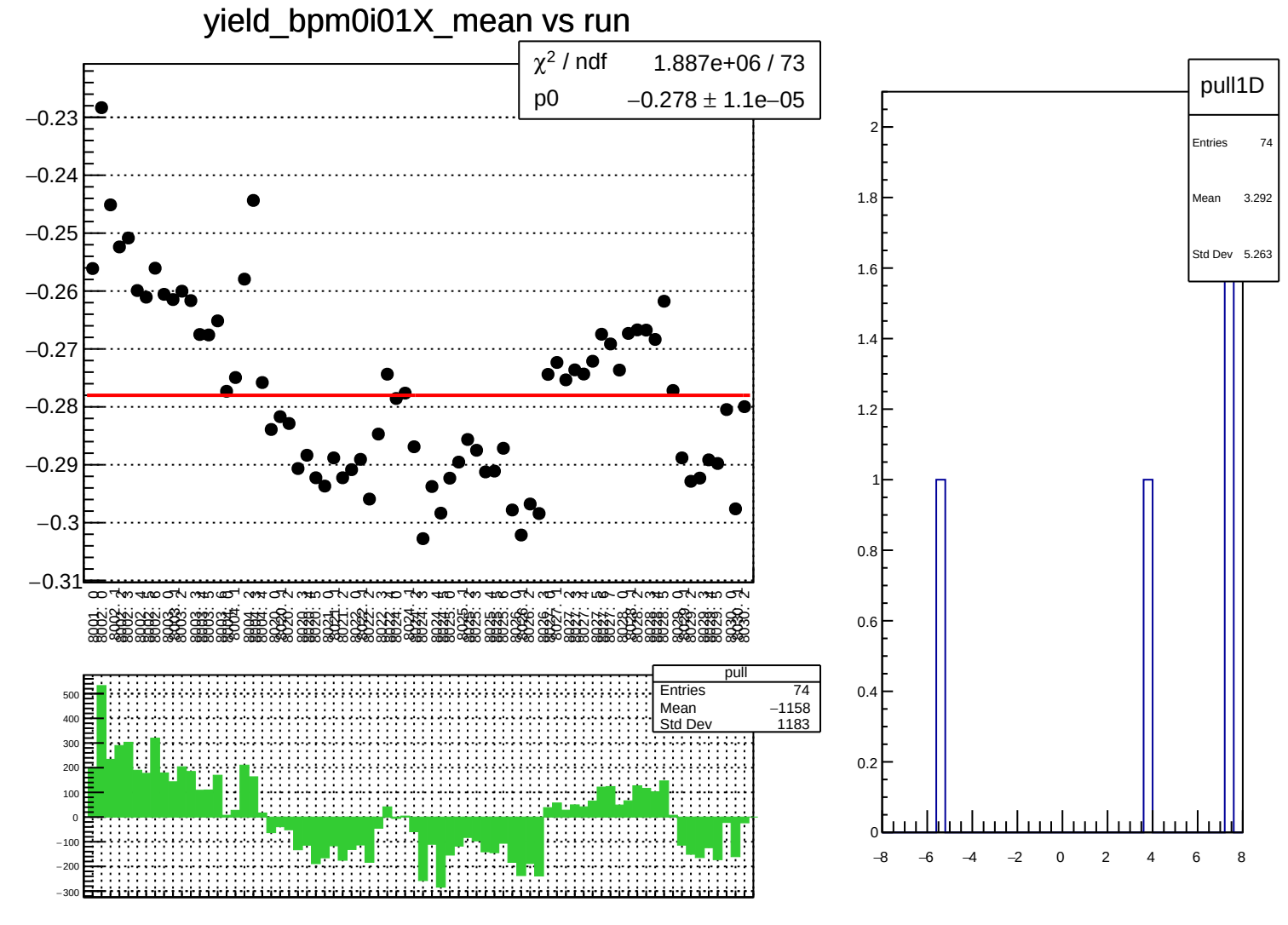

pull1D
Entries 74
Mean 4.195
Std Dev 3.668

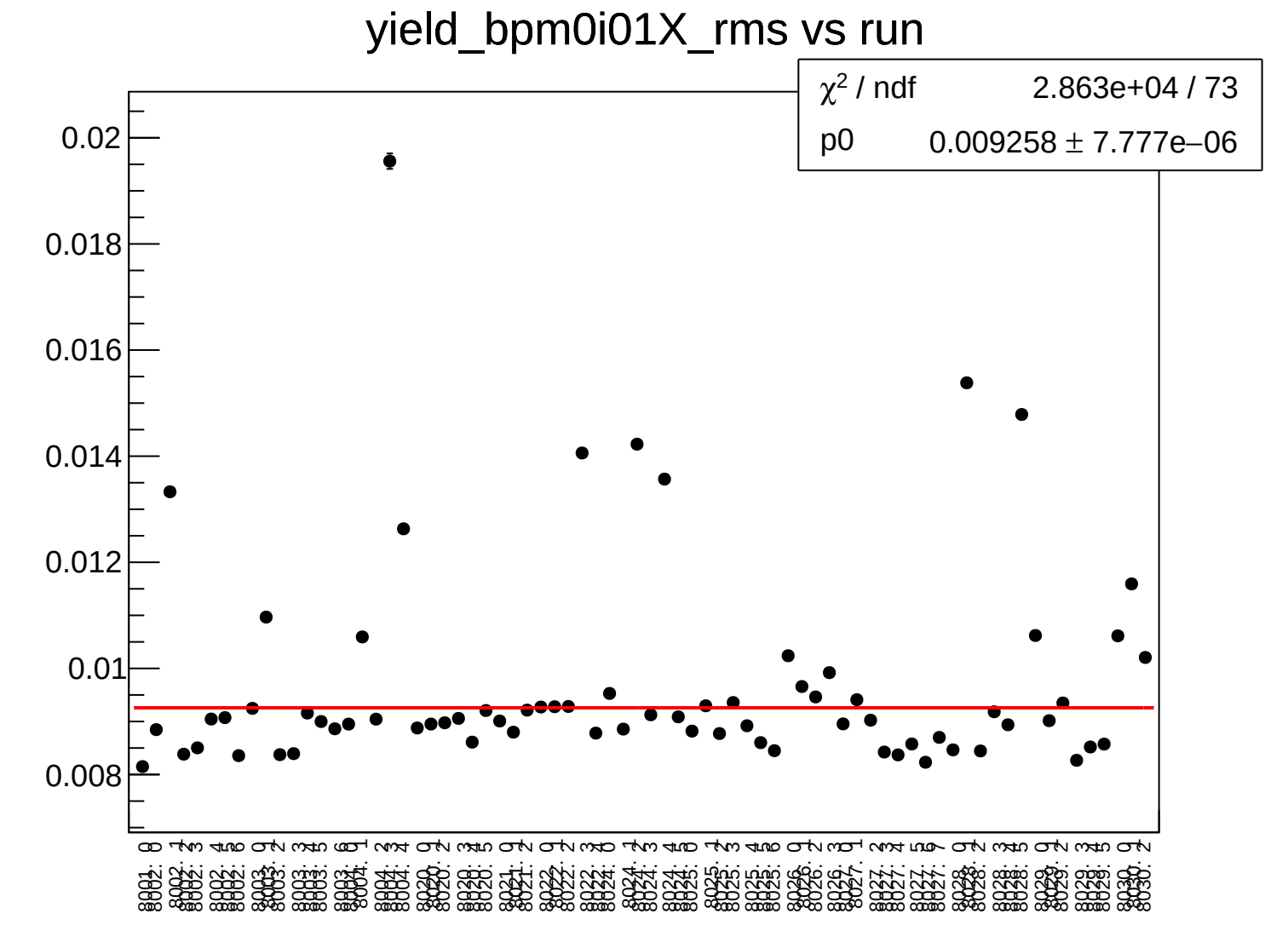

yield_bpm2i02X_rms vs run
χ² / ndf 2.612e+04 / 73
p0 0.01199 ± 1.006e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

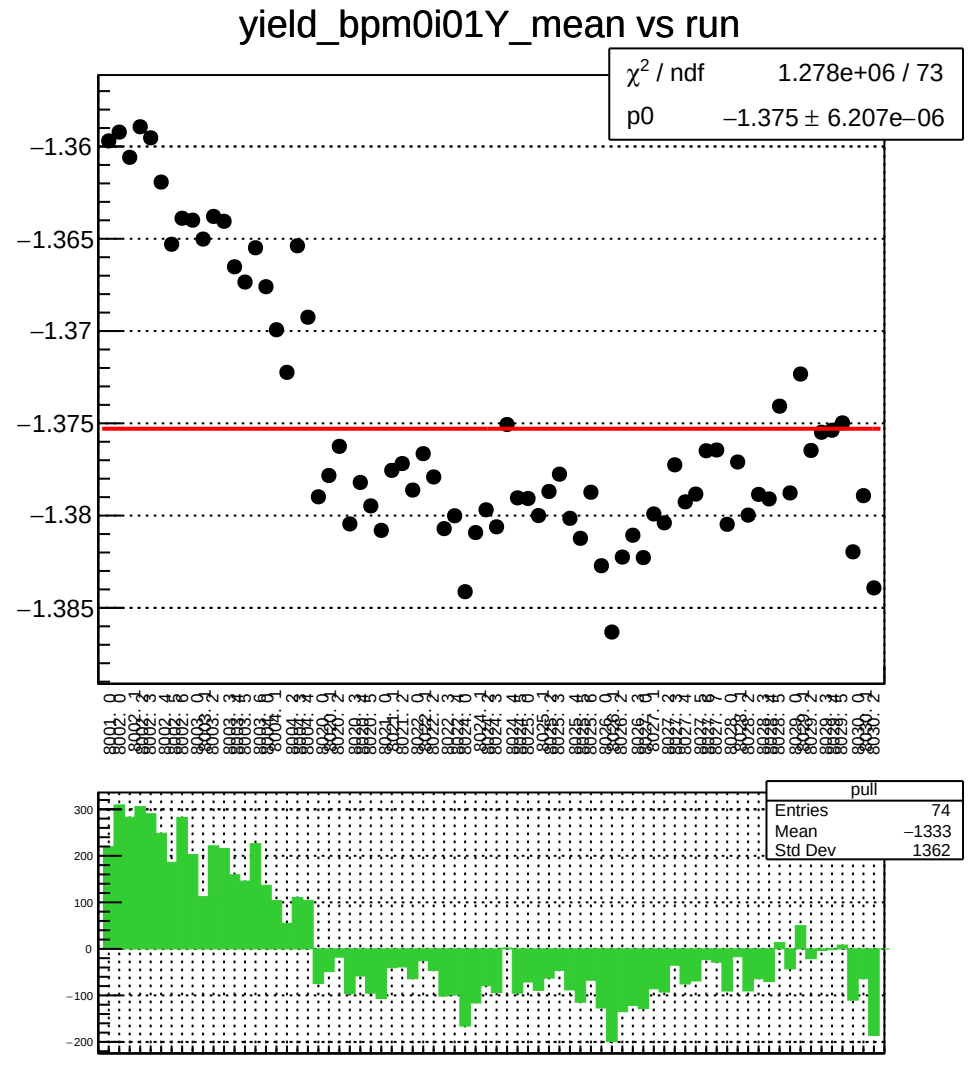

yield_bpm2i02Y_mean vs run
χ² / ndf 1.191e+06 / 73
p0 −1.282 ± 1.265e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
−1.31
pull
Entries 74
Mean 1490
Std Dev 1460
300
200
100
0
−100
−200

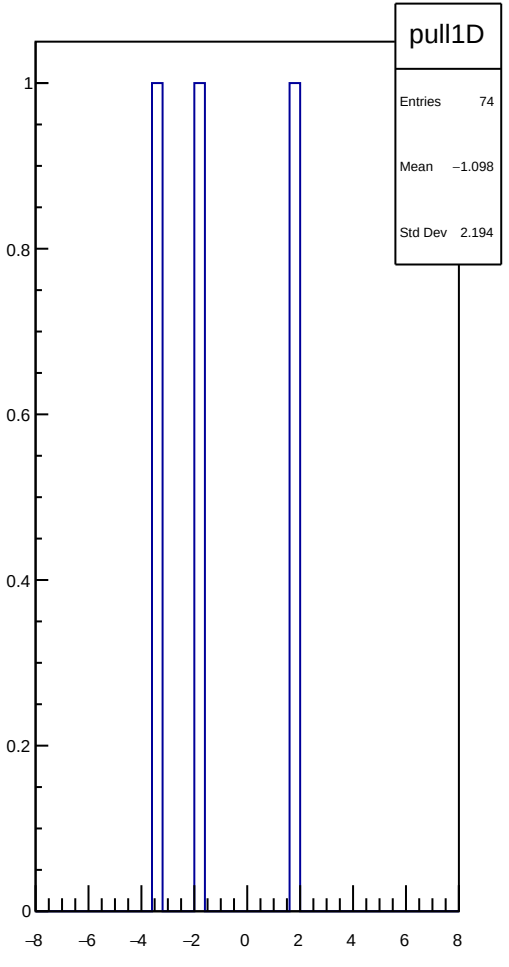

pull1D
Entries 74
Mean 0.02334
Std Dev 2.559
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

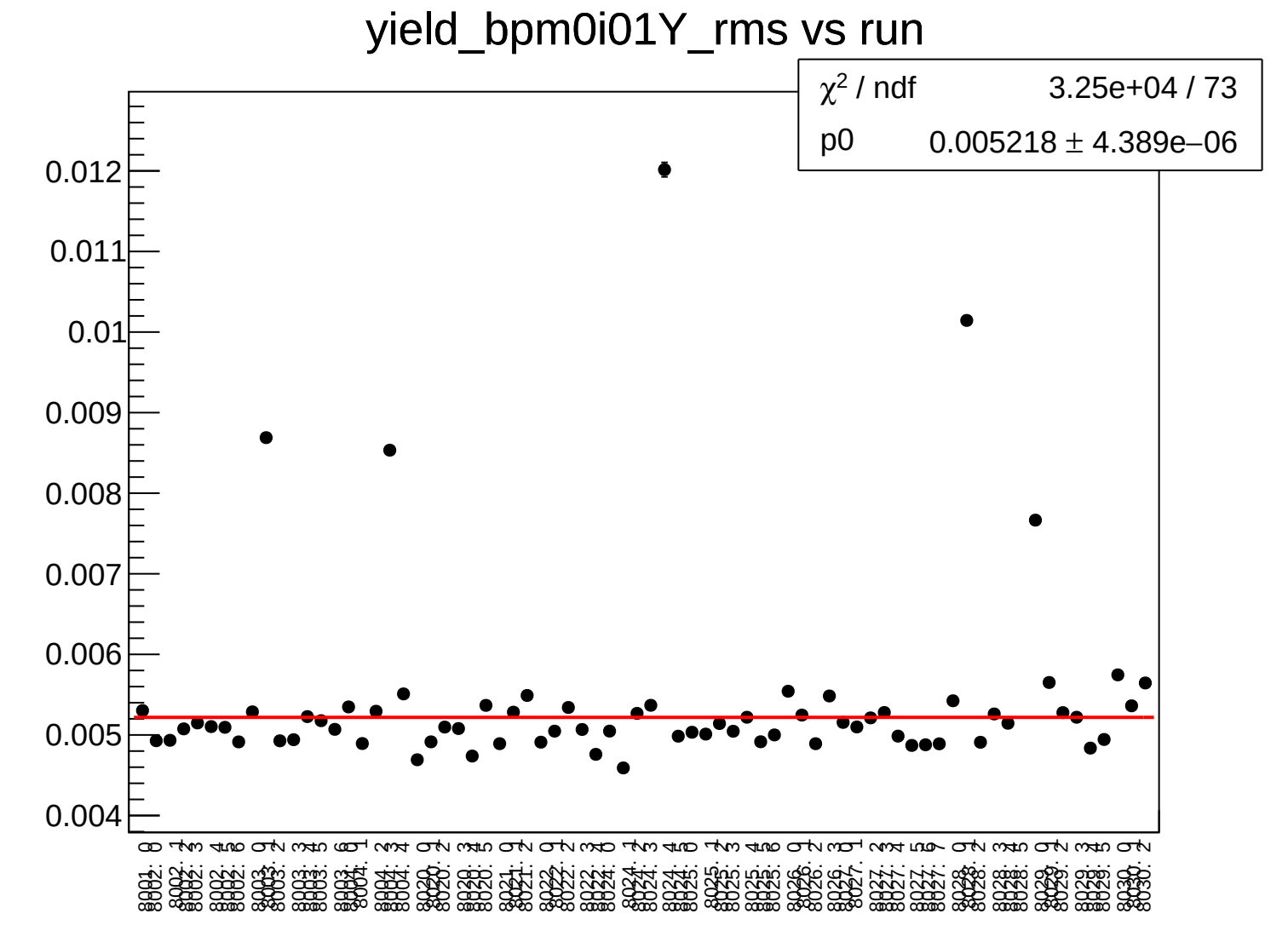

yield_bpm2i02Y_rms vs run
χ² / ndf 3321 / 73
p0 0.01074 ± 8.946e−06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

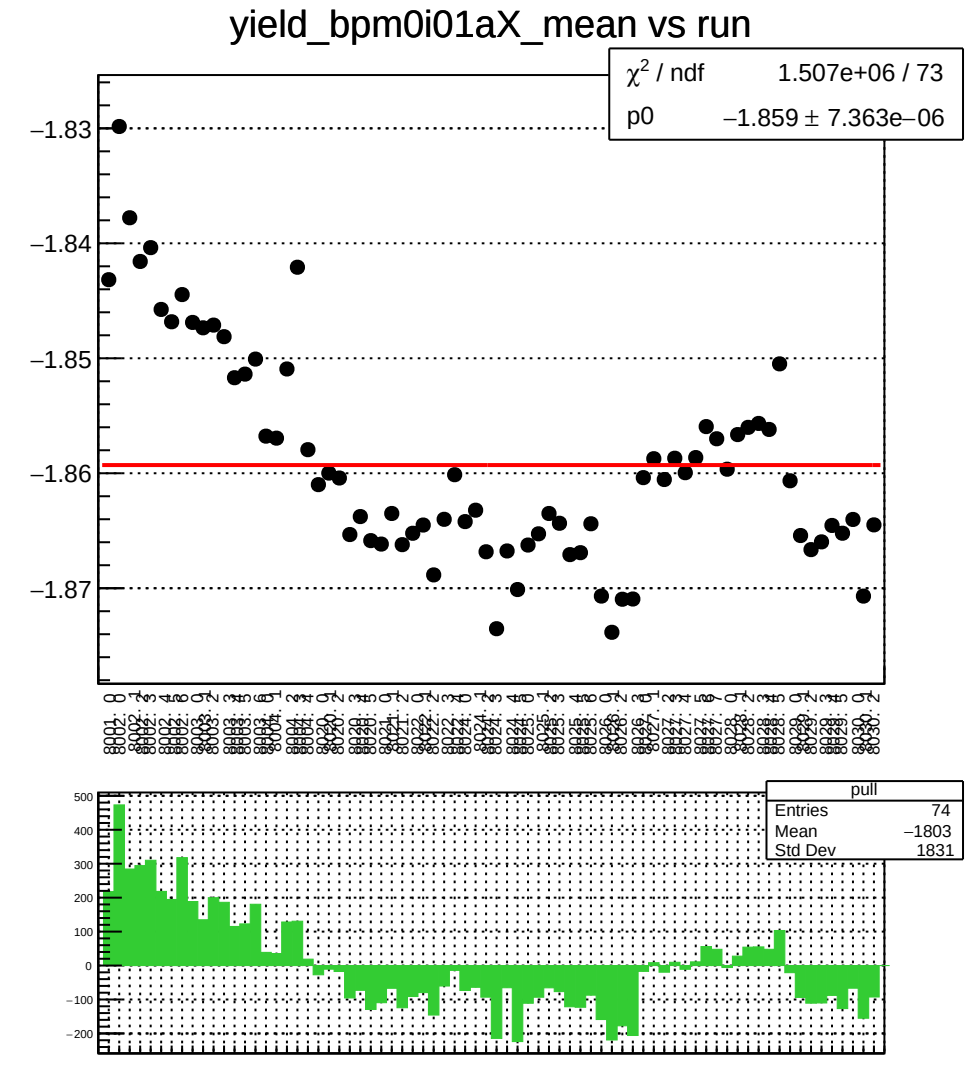

yield_bpm0i01X_mean vs run
χ² / ndf 1.887e+06 / 73
p0 −0.278 ± 1.1e−05
pull
Entries 74
Mean −1158
Std Dev 1183
pull1D
Entries 74
Mean 3.292
Std Dev 5.263

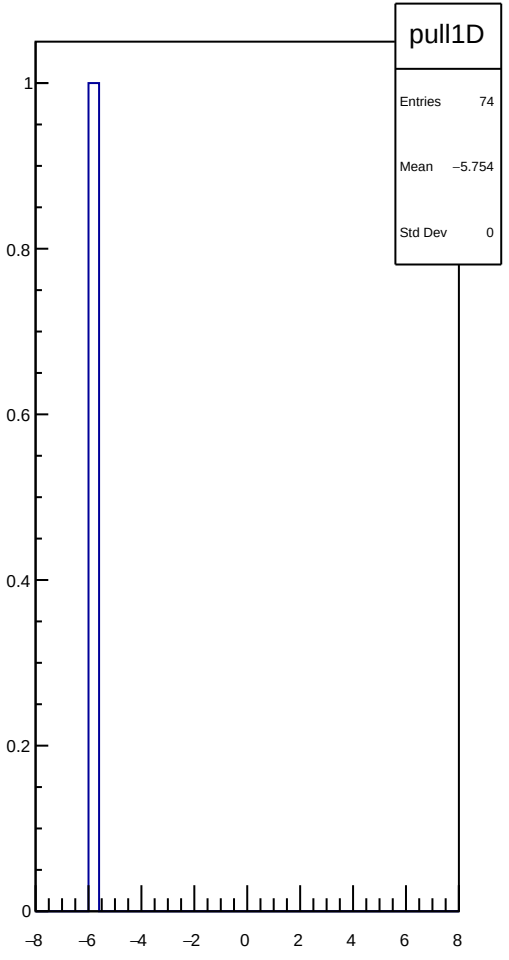

yield_bpm0i01X_rms vs run
χ² / ndf 2.863e+04 / 73
p0 0.009258 ± 7.777e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

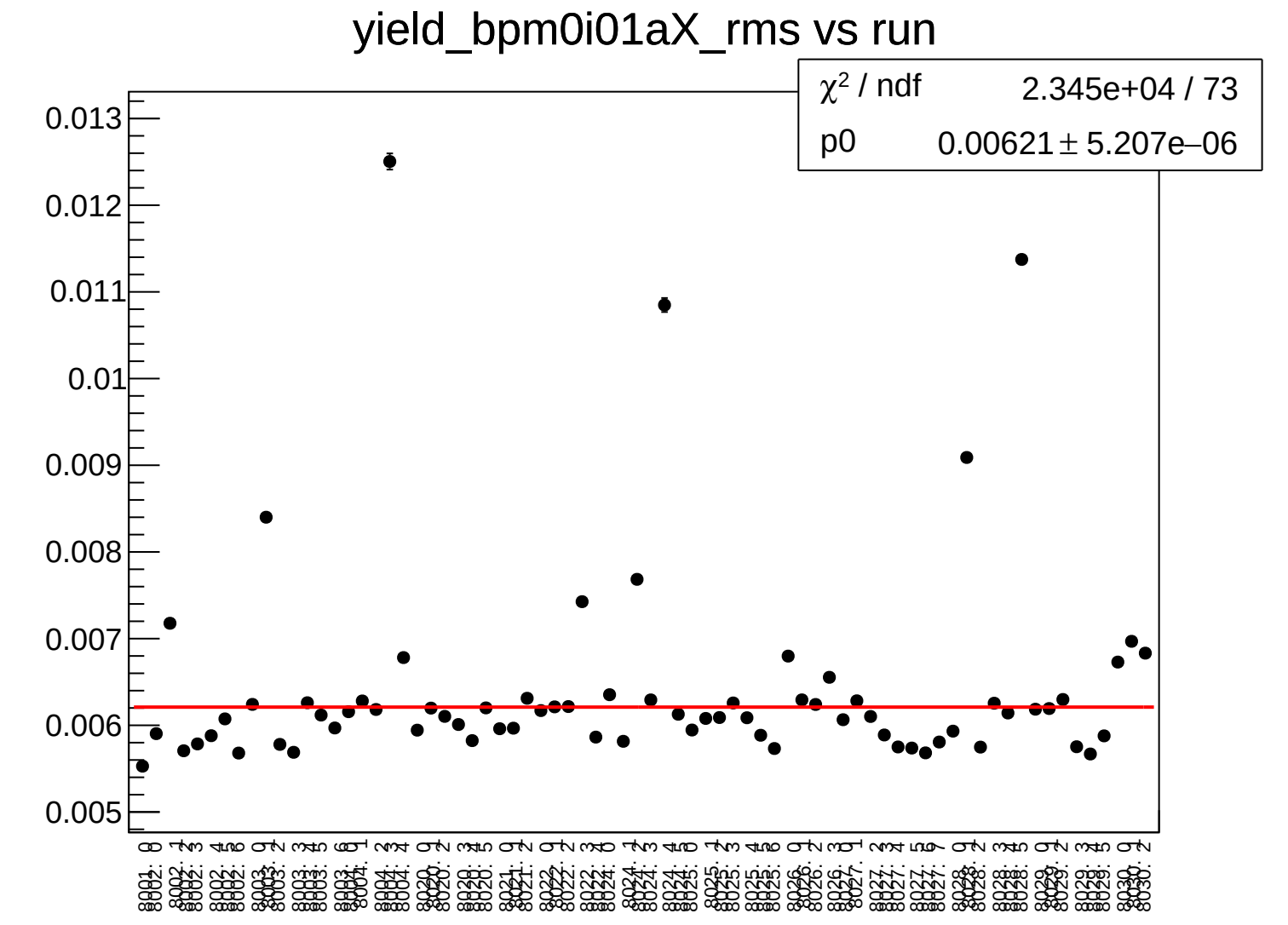

yield_bpm0i01Y_mean vs run
χ² / ndf 1.278e+06 / 73
p0 −1.375 ± 6.207e−06
−1.36
−1.365
−1.37
−1.375
−1.38
−1.385
pull
Entries 74
Mean −1333
Std Dev 1362
300
200
100
0
−100
−200

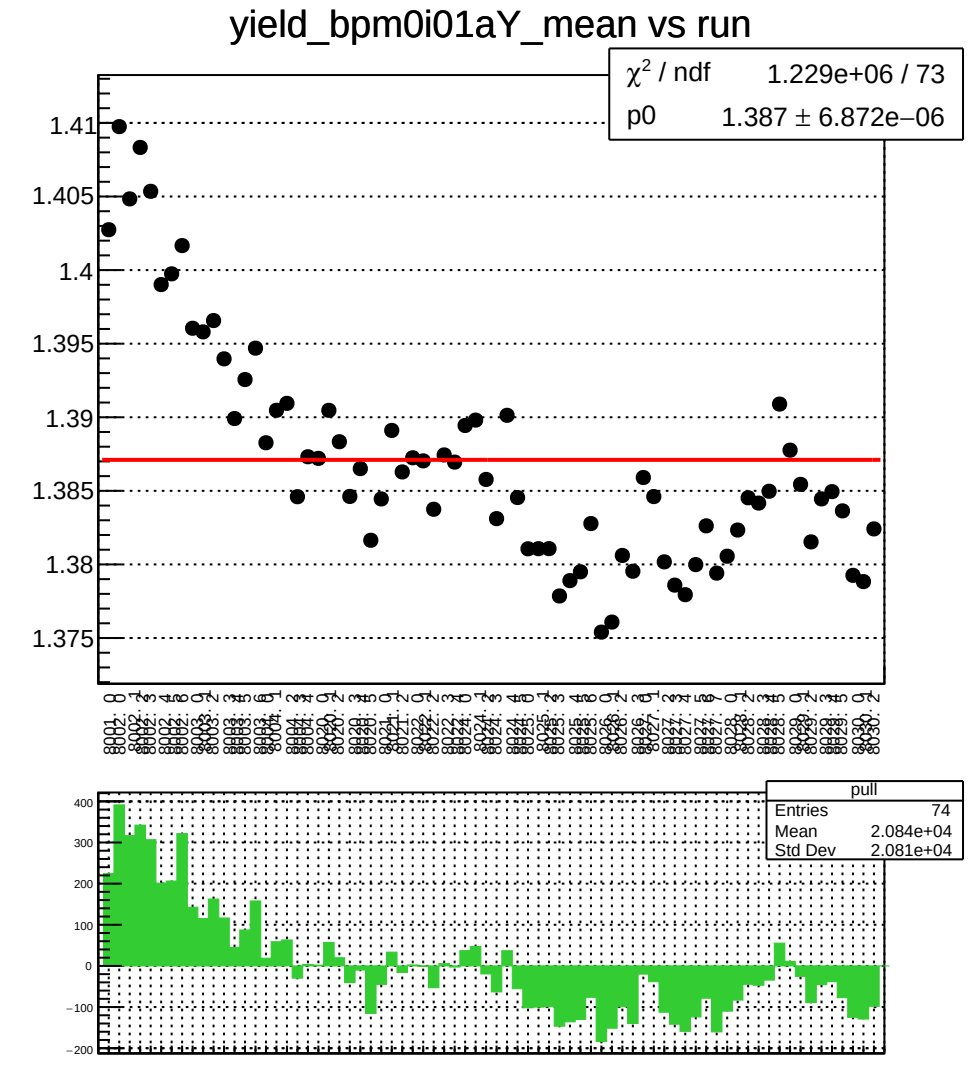

pull1D
Entries 74
Mean −1.098
Std Dev 2.194
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

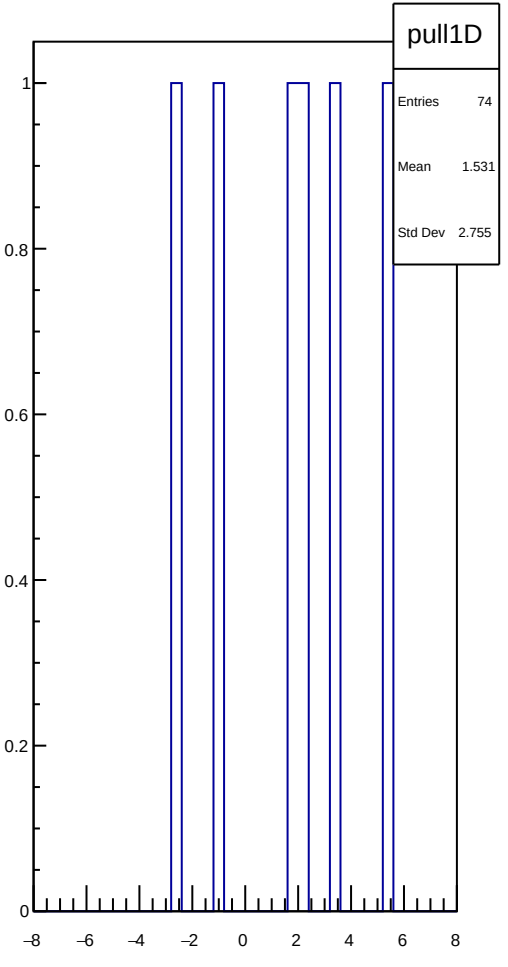

yield_bpm0i01Y_rms vs run
χ² / ndf 3.25e+04 / 73
p0 0.005218 ± 4.389e−06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

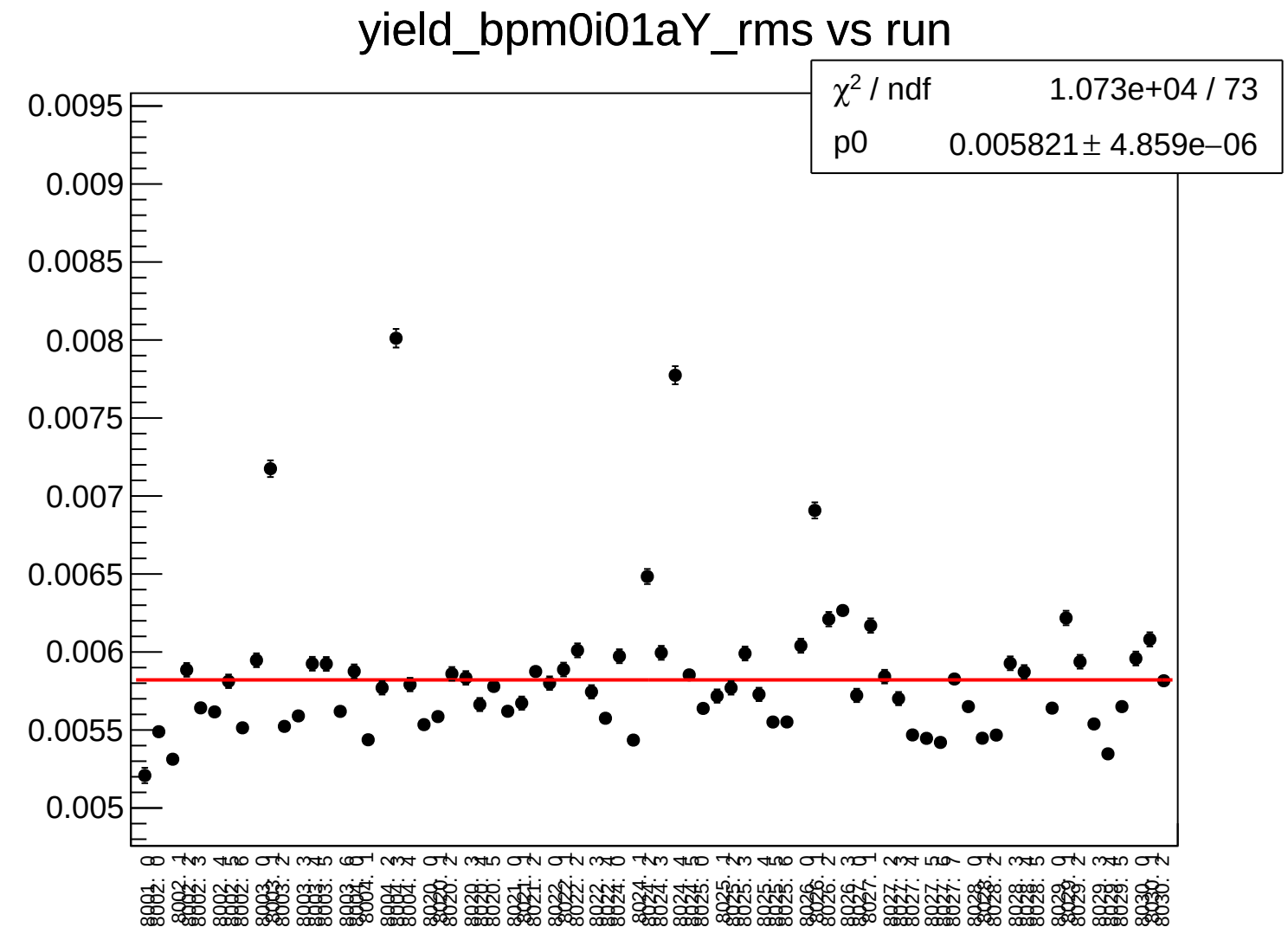

yield_bpm0i01aX_mean vs run
χ² / ndf 1.507e+06 / 73
p0 −1.859 ± 7.363e−06
−1.83
−1.84
−1.85
−1.86
−1.87
pull
Entries 74
Mean −1803
Std Dev 1831
500
400
300
200
100
0
−100
−200

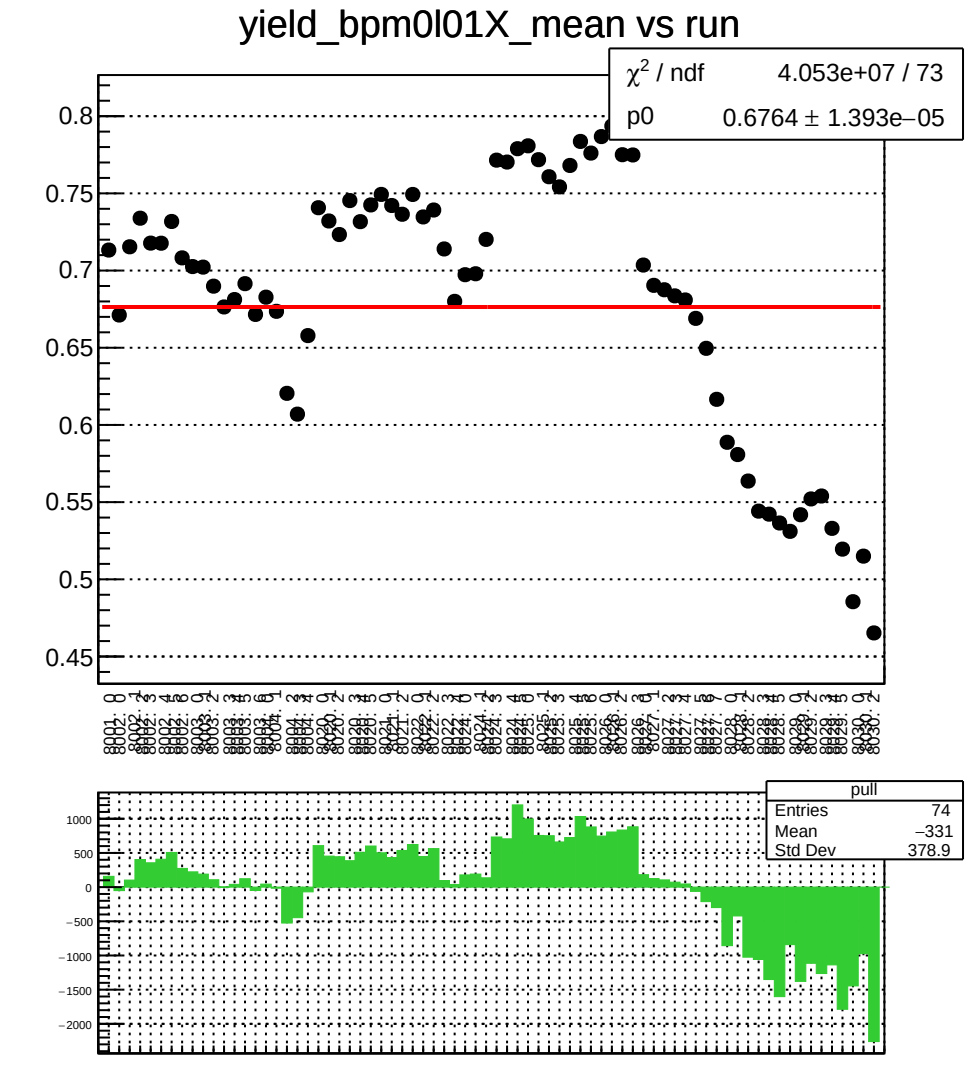

pull1D
Entries 74
Mean −5.754
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

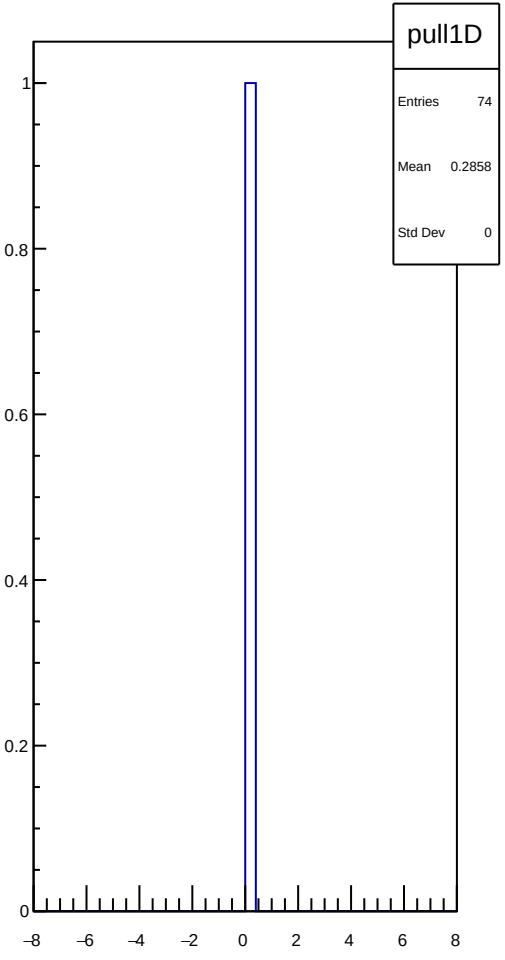

yield_bpm0i01aX_rms vs run
χ² / ndf 2.345e+04 / 73
p0 0.00621 ± 5.207e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

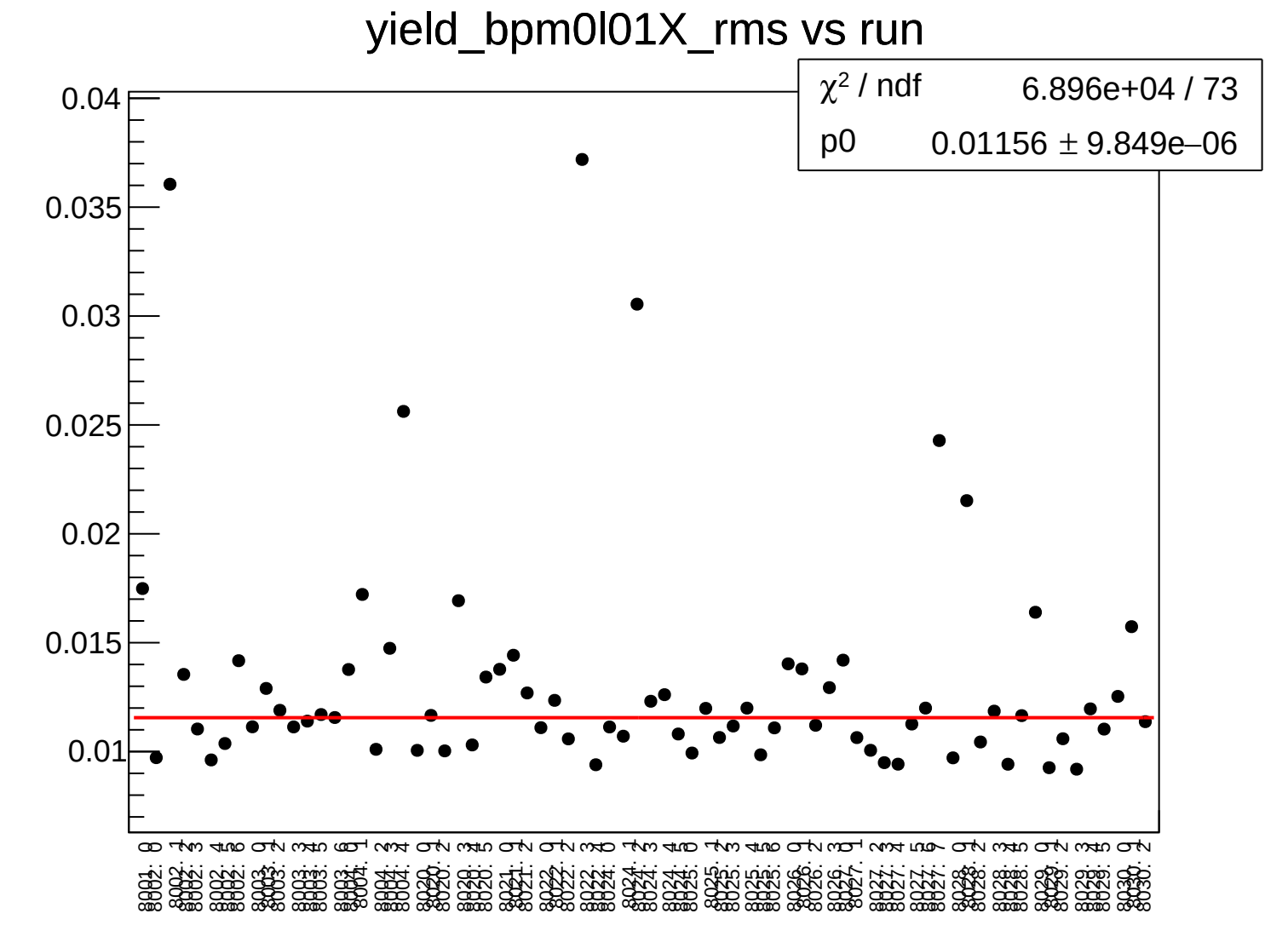

yield_bpm0i01aY_mean vs run
χ² / ndf 1.229e+06 / 73
p0 1.387 ± 6.872e−06
1.41
1.405
1.4
1.395
1.39
1.385
1.38
1.375
pull
Entries 74
Mean 2.084e+04
Std Dev 2.081e+04
400
300
200
100
0
−100
−200

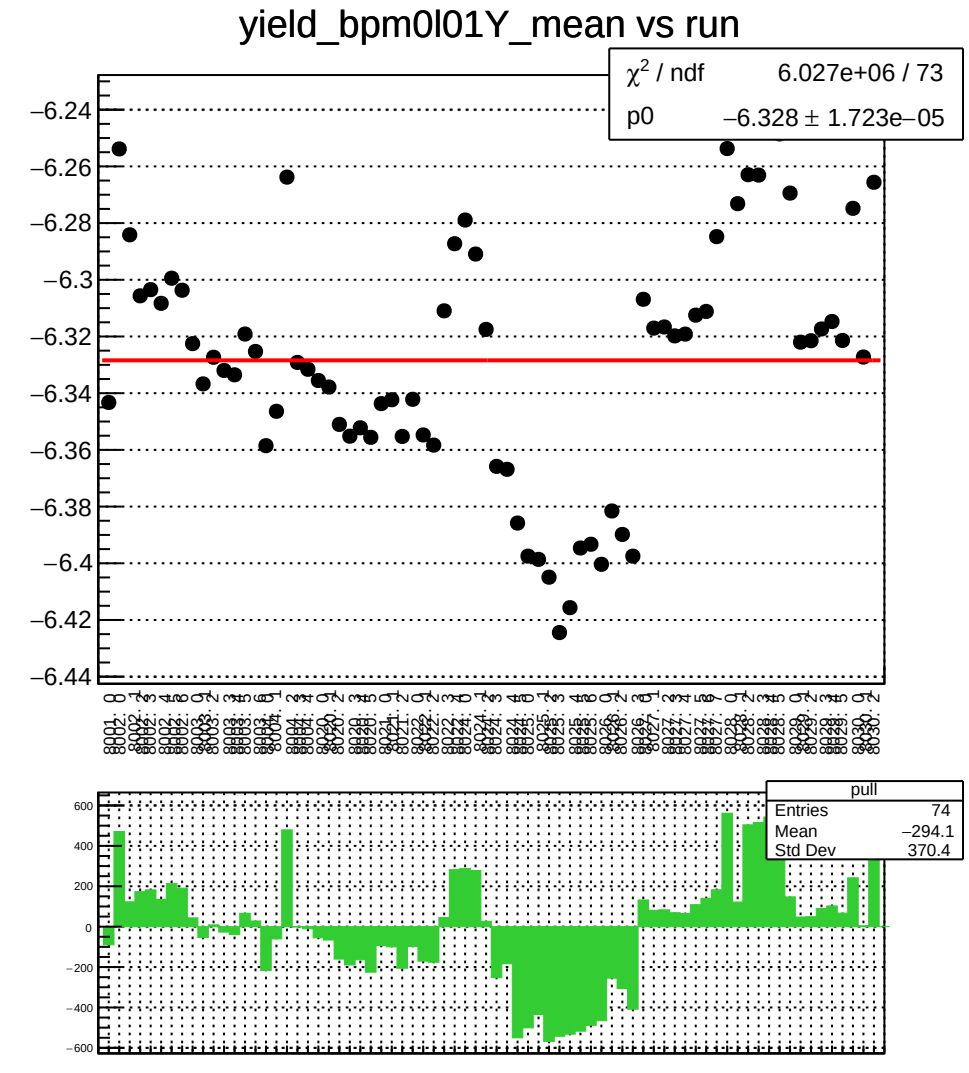

pull1D
Entries 74
Mean 1.531
Std Dev 2.755
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

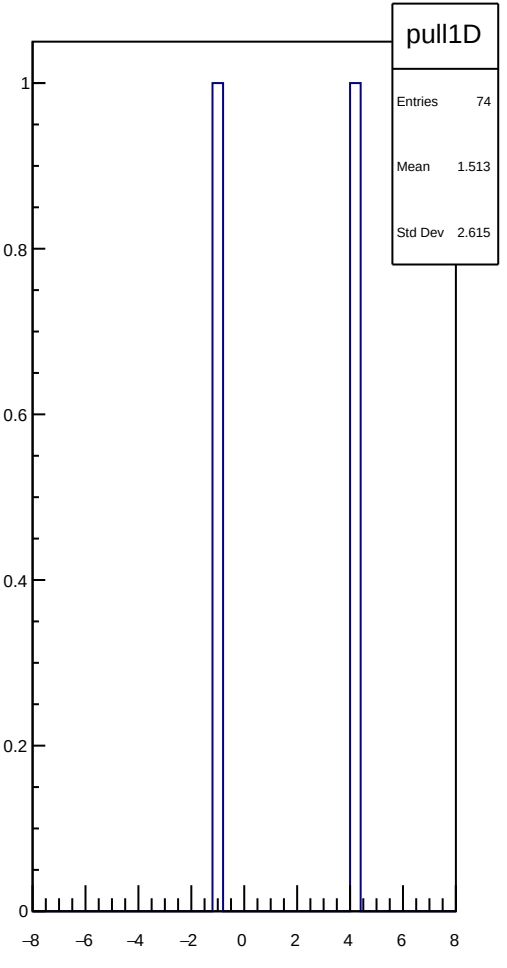

yield_bpm0i01aY_rms vs run
χ² / ndf 1.073e+04 / 73
p0 0.005821 ± 4.859e−06
0.0095
0.009
0.0085
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005

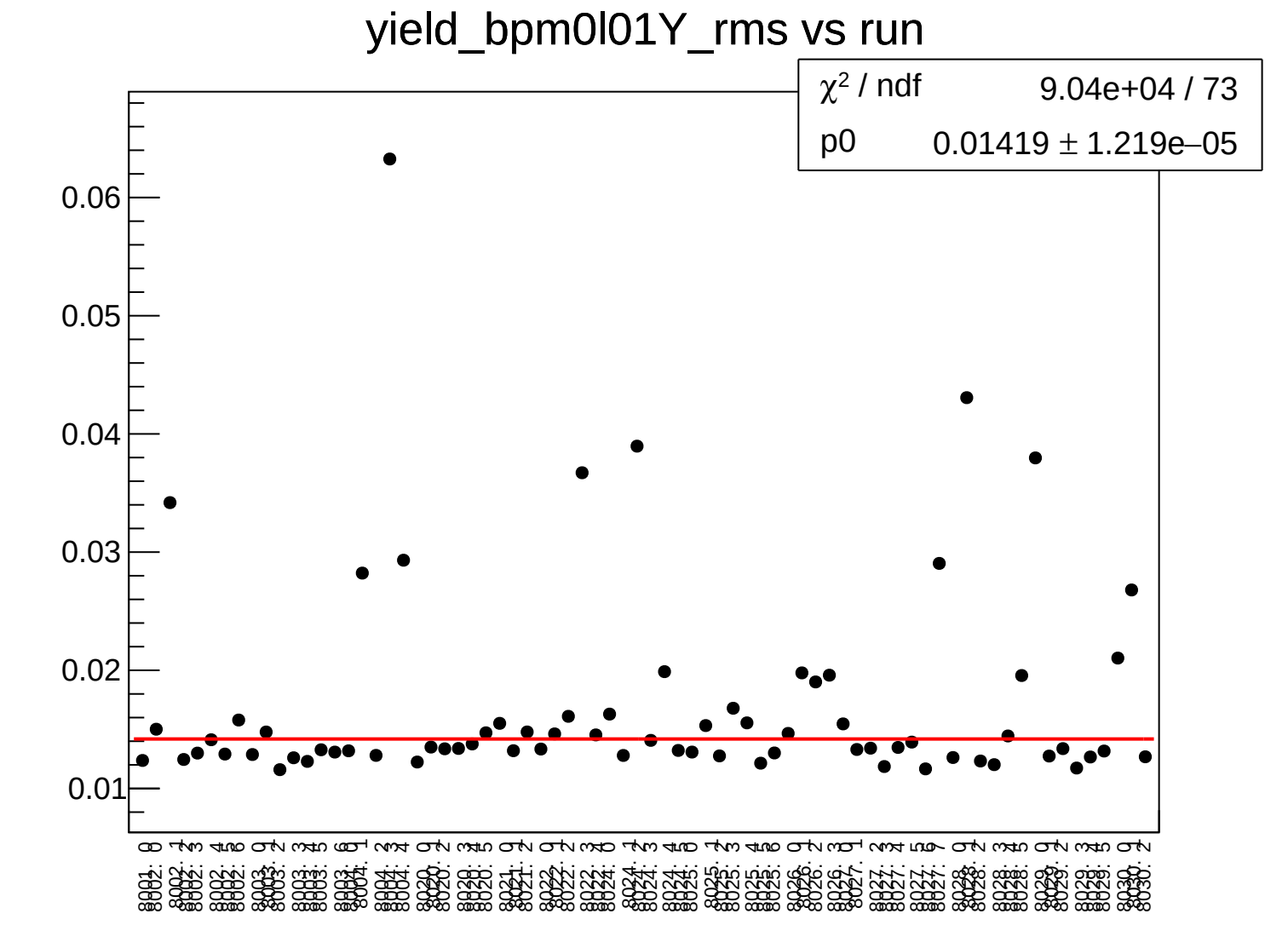

yield_bpm0l01X_mean vs run
χ² / ndf 4.053e+07 / 73
p0 0.6764 ± 1.393e−05
pull
Entries 74
Mean −331
Std Dev 378.9

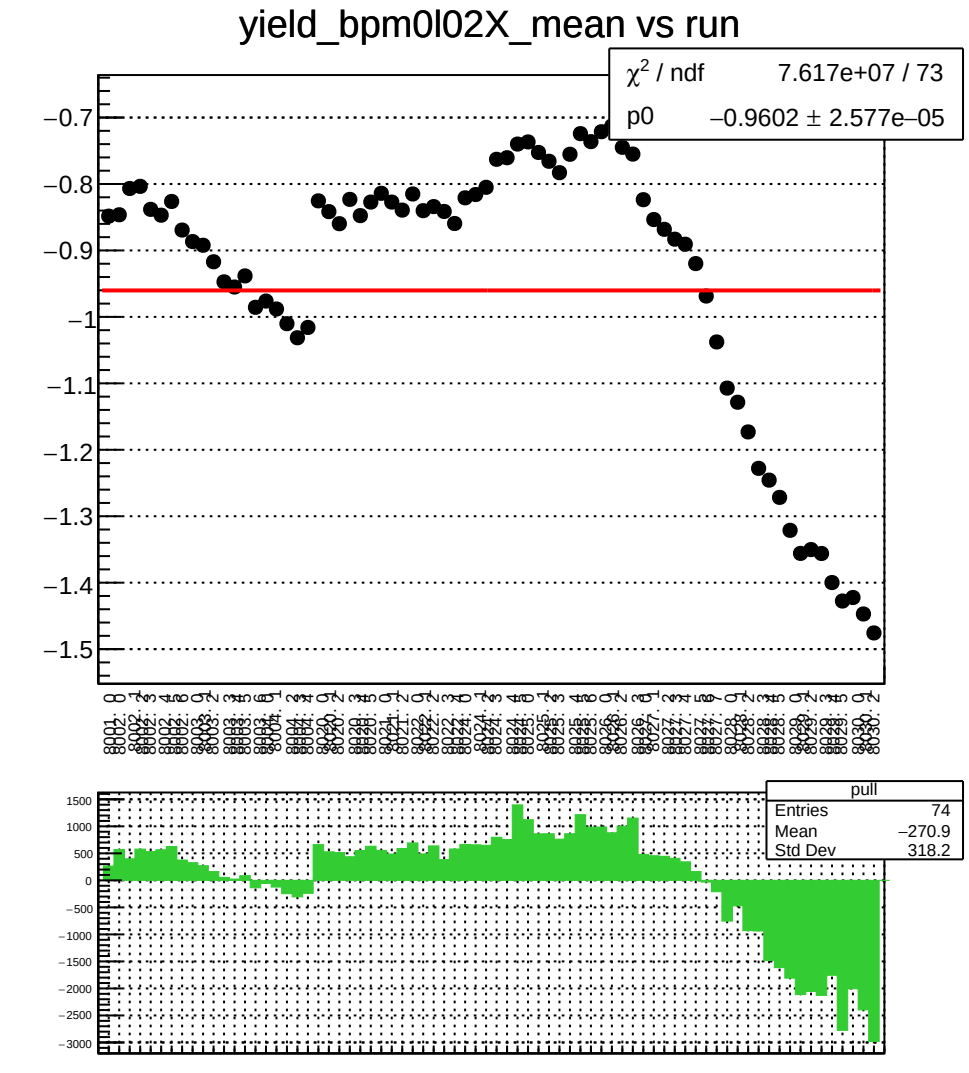

pull1D
Entries 74
Mean 0.2858
Std Dev 0

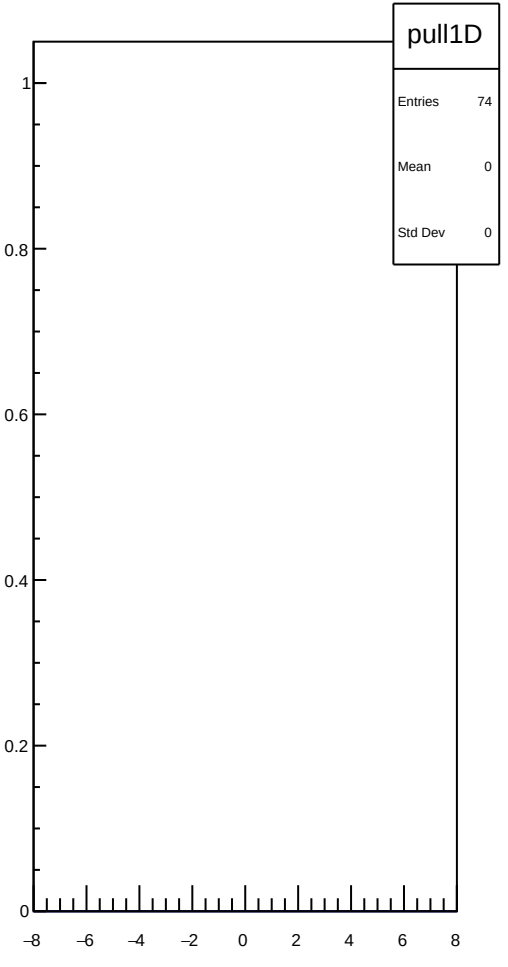

yield_bpm0l01X_rms vs run
χ² / ndf 6.896e+04 / 73
p0 0.01156 ± 9.849e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01

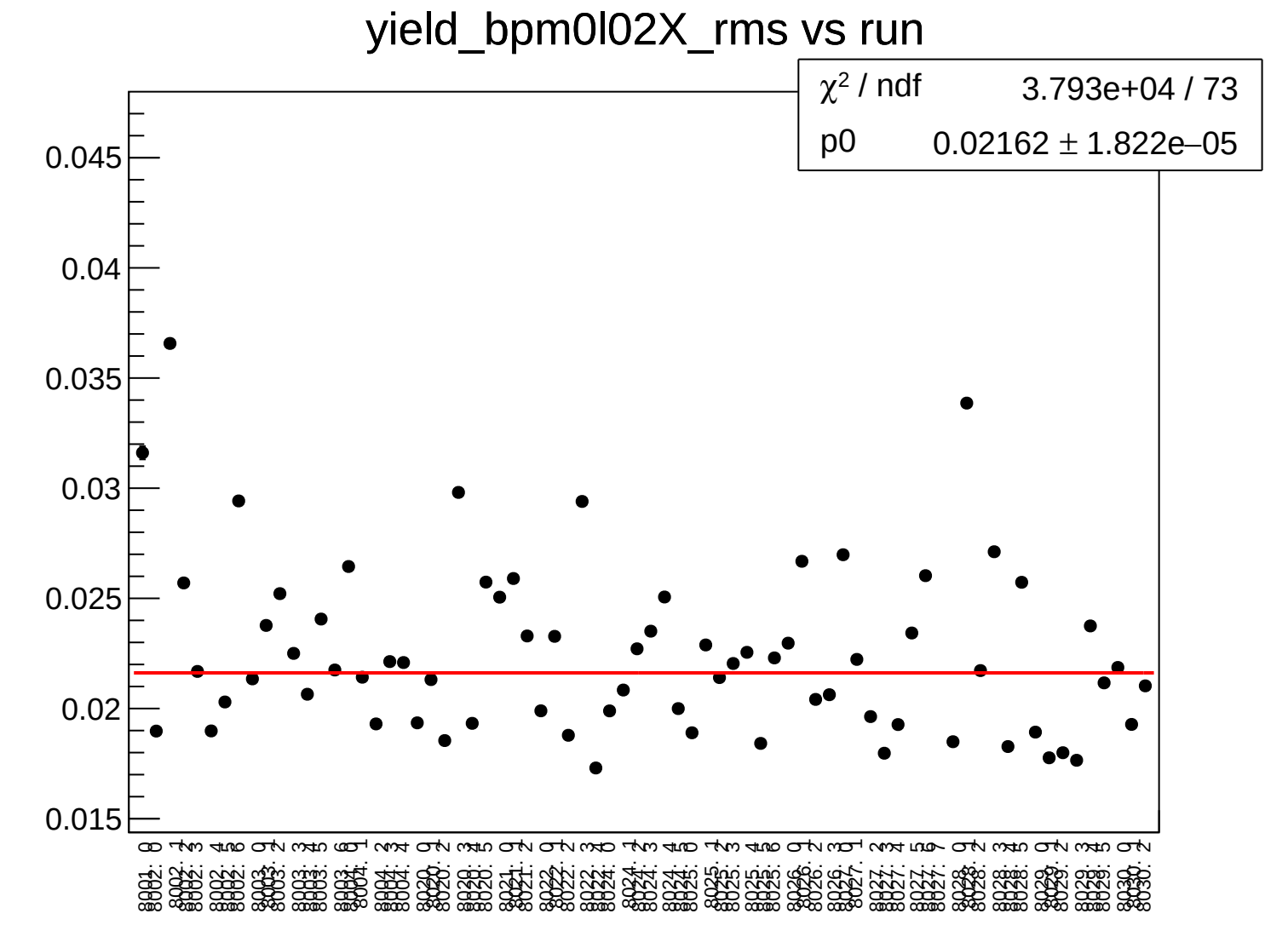

yield_bpm0l01Y_mean vs run
χ² / ndf 6.027e+06 / 73
p0 −6.328 ± 1.723e−05
−6.24
−6.26
−6.28
−6.3
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
pull
Entries 74
Mean −294.1
Std Dev 370.4
600
400
200
0
−200
−400
−600

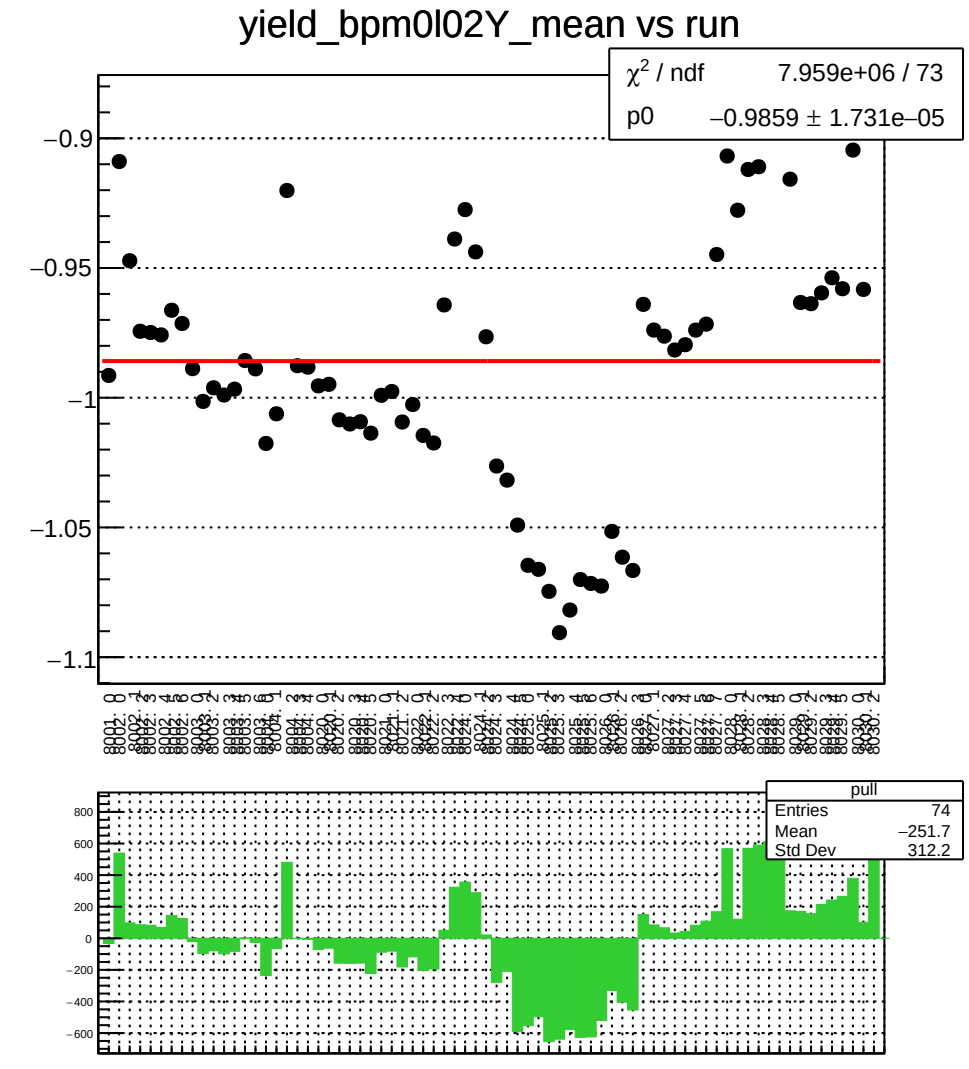

pull1D
Entries 74
Mean 1.513
Std Dev 2.615
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

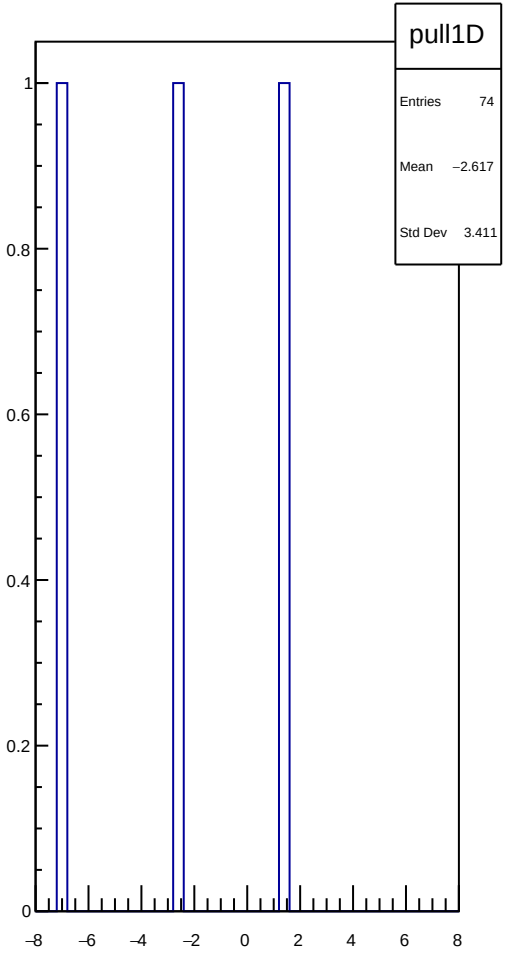

yield_bpm0l01Y_rms vs run
χ² / ndf 9.04e+04 / 73
p0 0.01419 ± 1.219e−05
0.06
0.05
0.04
0.03
0.02
0.01

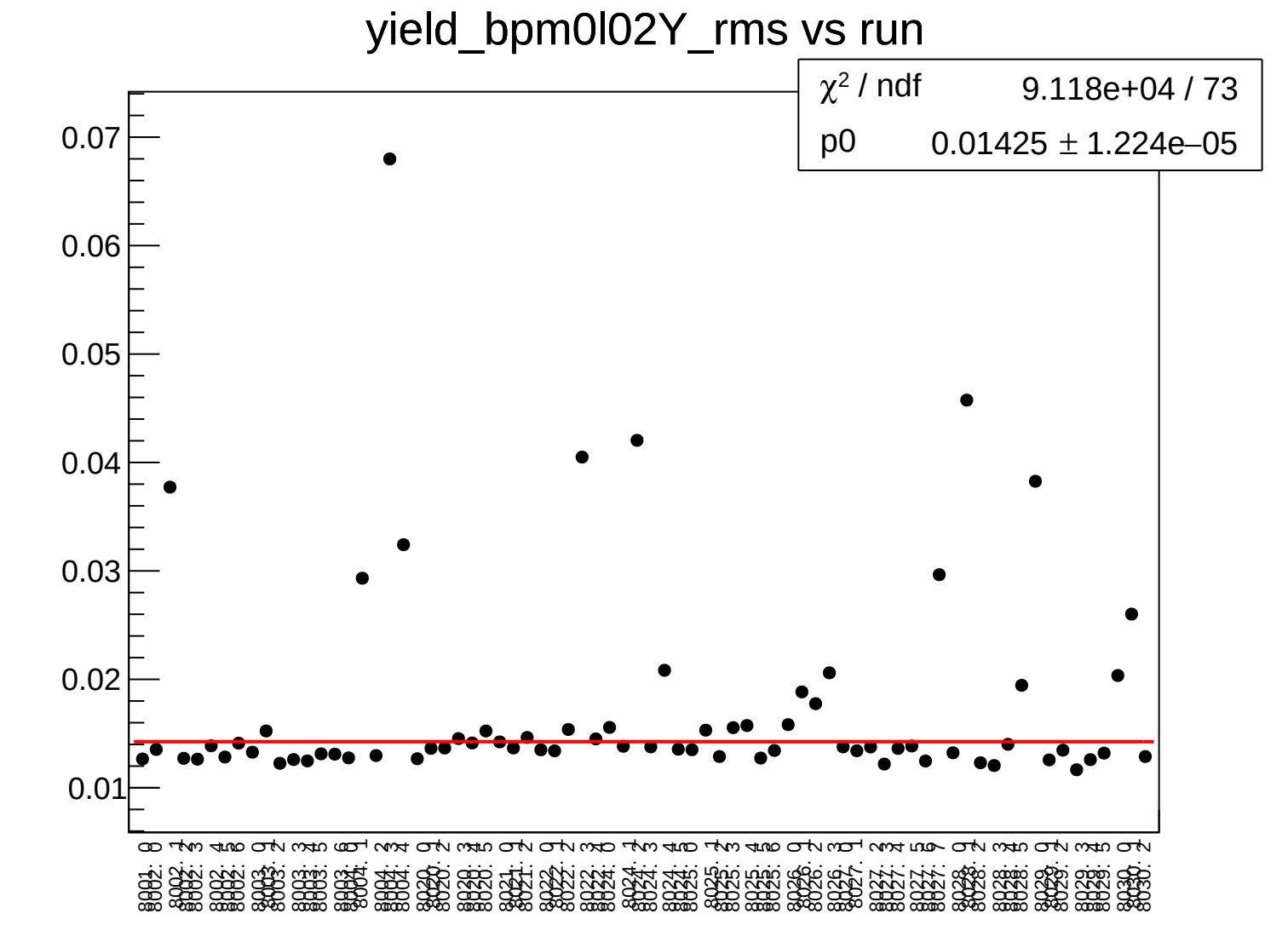

yield_bpm0l02X_mean vs run
χ² / ndf 7.617e+07 / 73
p0 −0.9602 ± 2.577e−05
pull
Entries 74
Mean −270.9
Std Dev 318.2

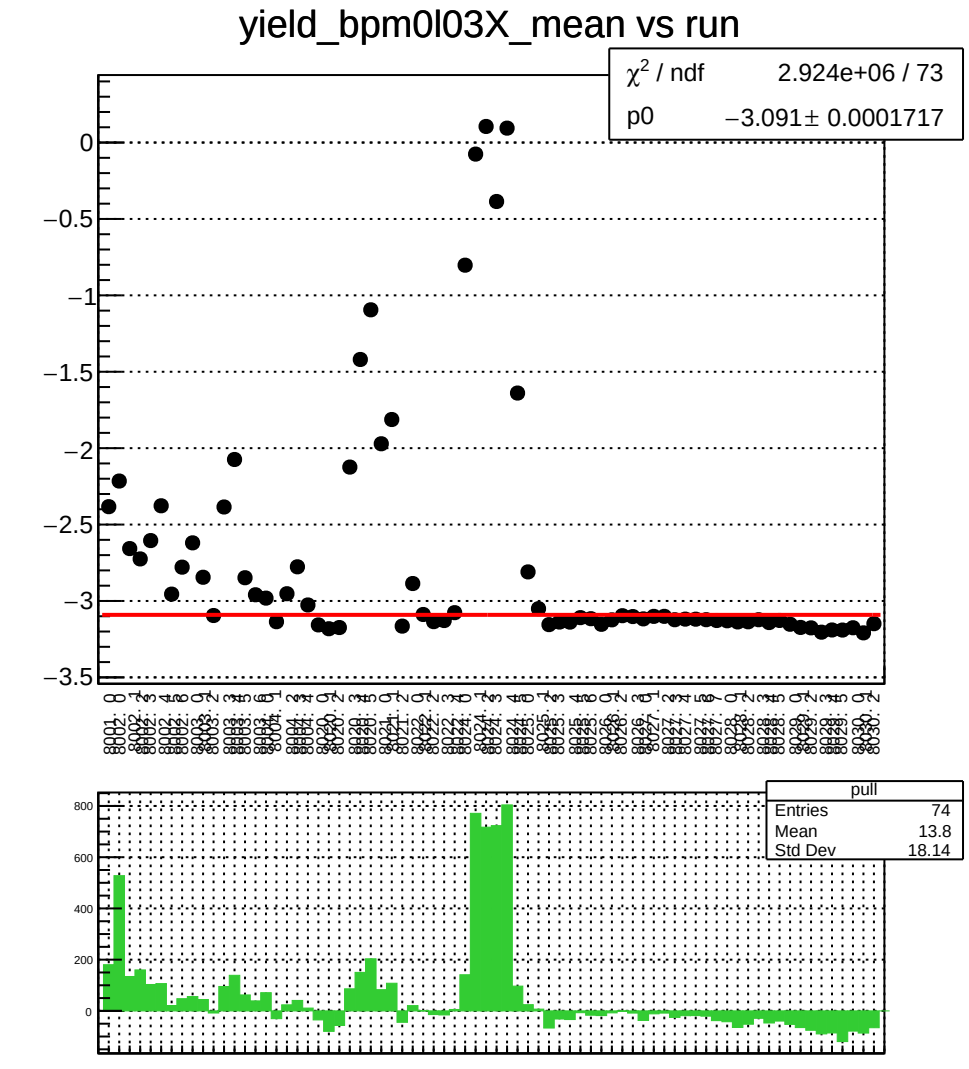

pull1D
Entries 74
Mean 0
Std Dev 0

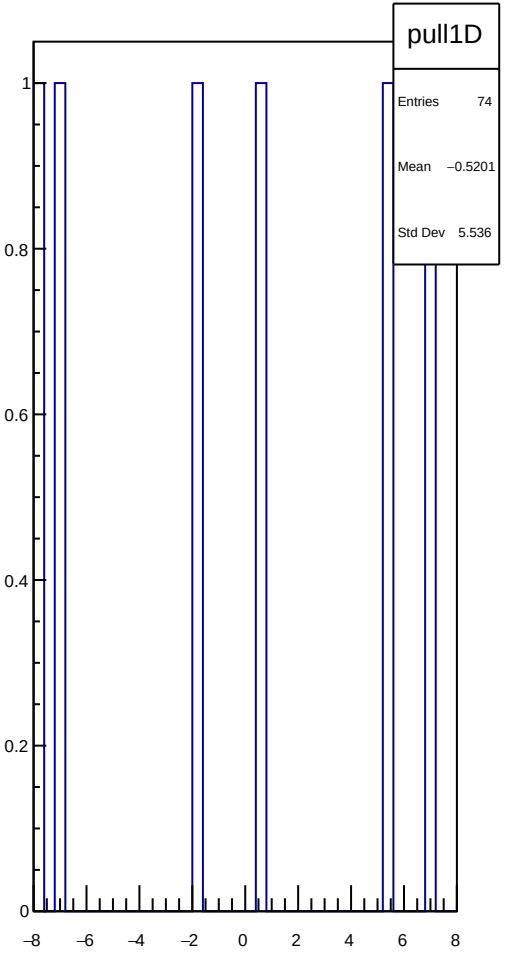

yield_bpm0l02X_rms vs run
χ² / ndf 3.793e+04 / 73
p0 0.02162 ± 1.822e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

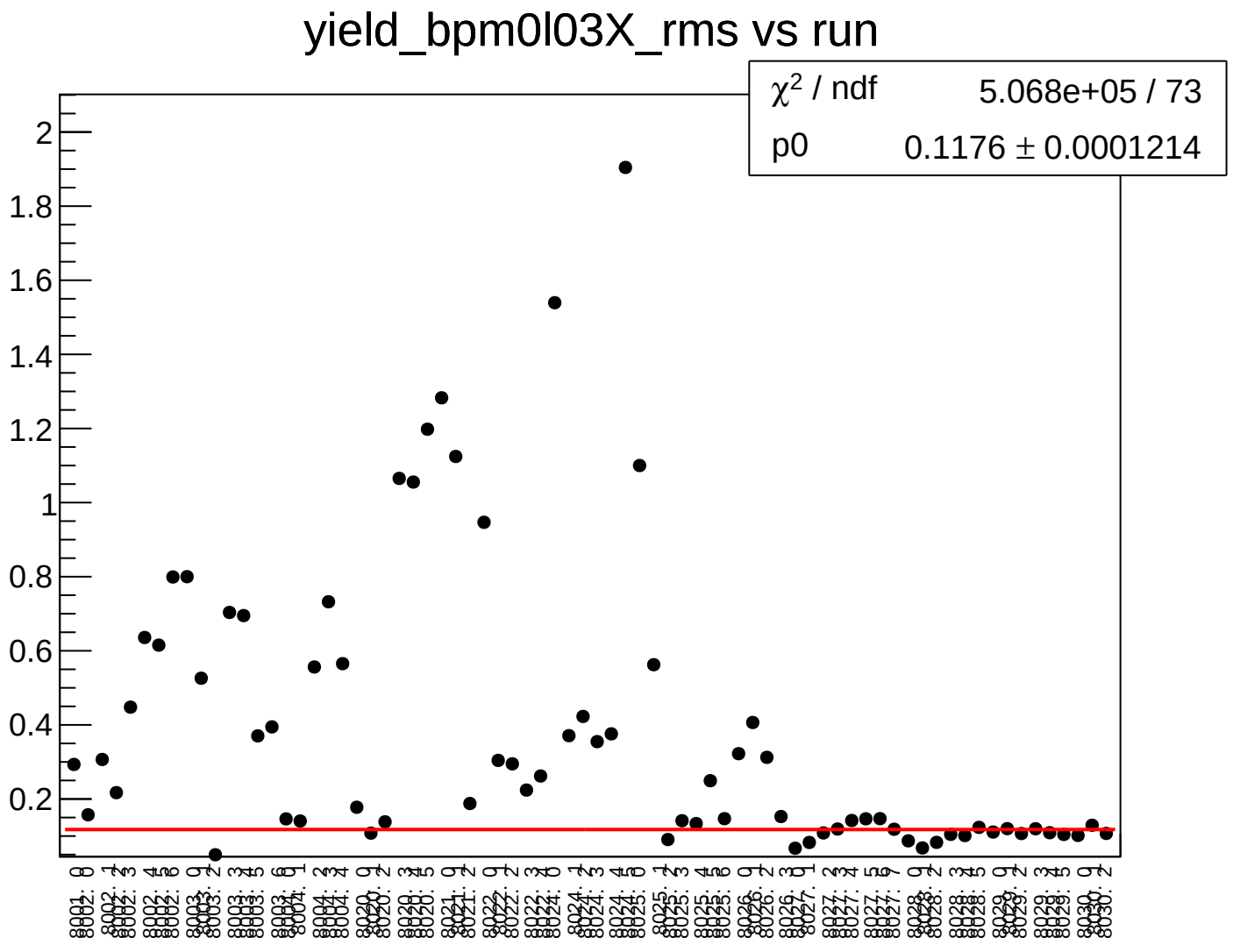

yield_bpm0l02Y_mean vs run
χ² / ndf 7.959e+06 / 73
p0 −0.9859 ± 1.731e−05
−0.9
−0.95
−1
−1.05
−1.1
pull
Entries 74
Mean −251.7
Std Dev 312.2
800
600
400
200
0
−200
−400
−600

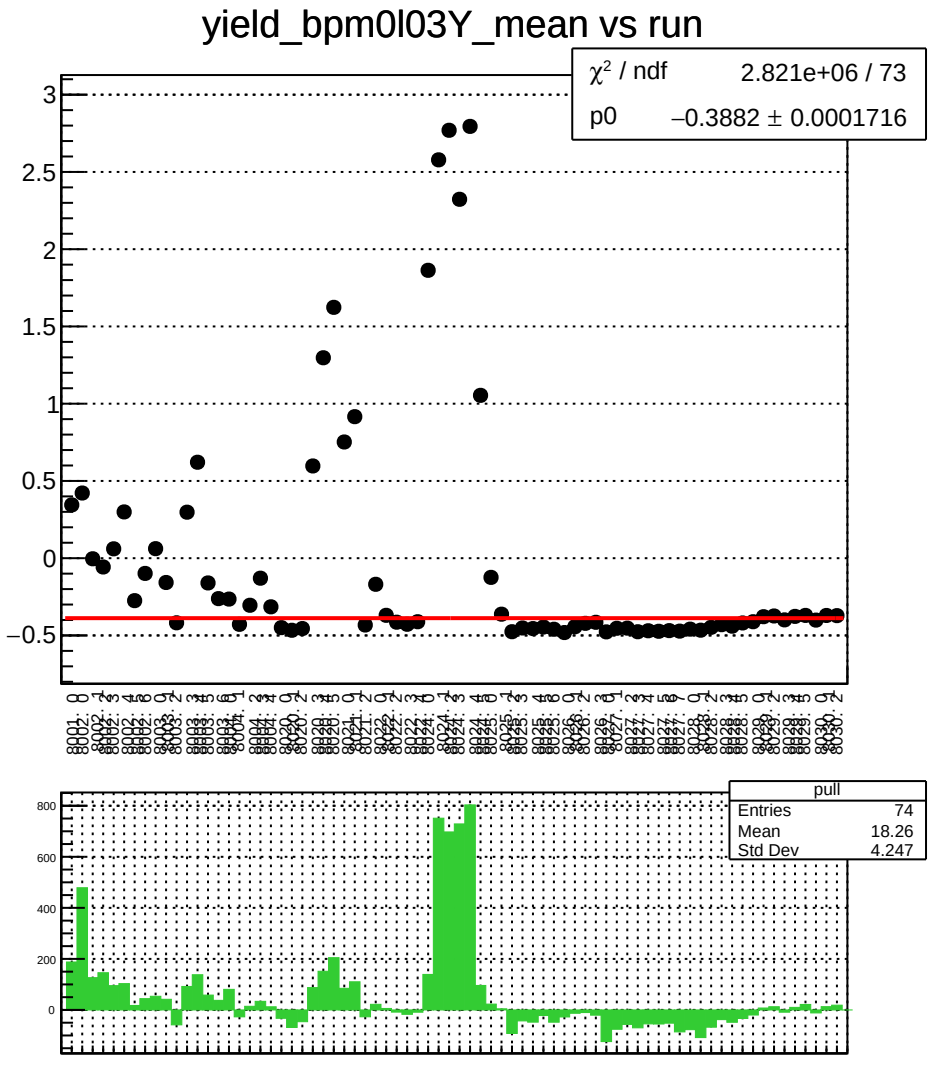

pull1D
Entries 74
Mean −2.617
Std Dev 3.411
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

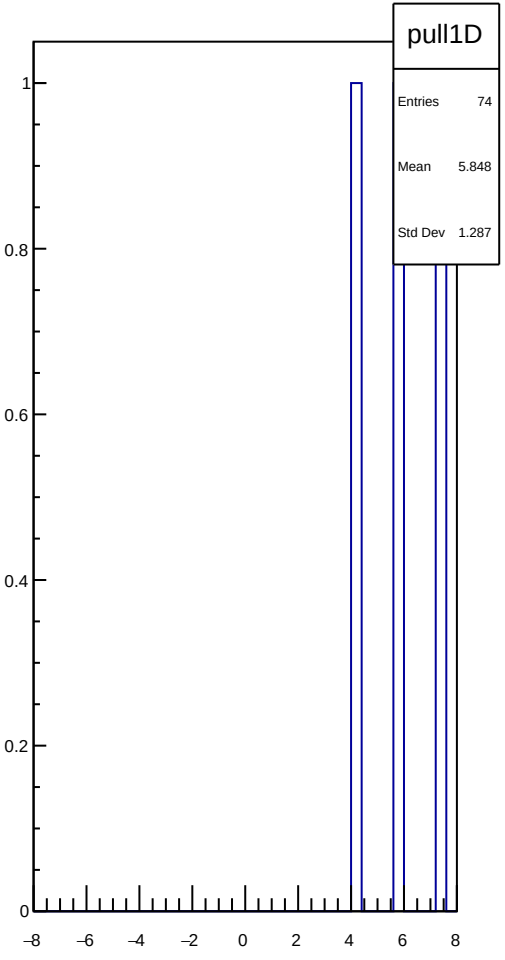

yield_bpm0l02Y_rms vs run
χ² / ndf 9.118e+04 / 73
p0 0.01425 ± 1.224e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

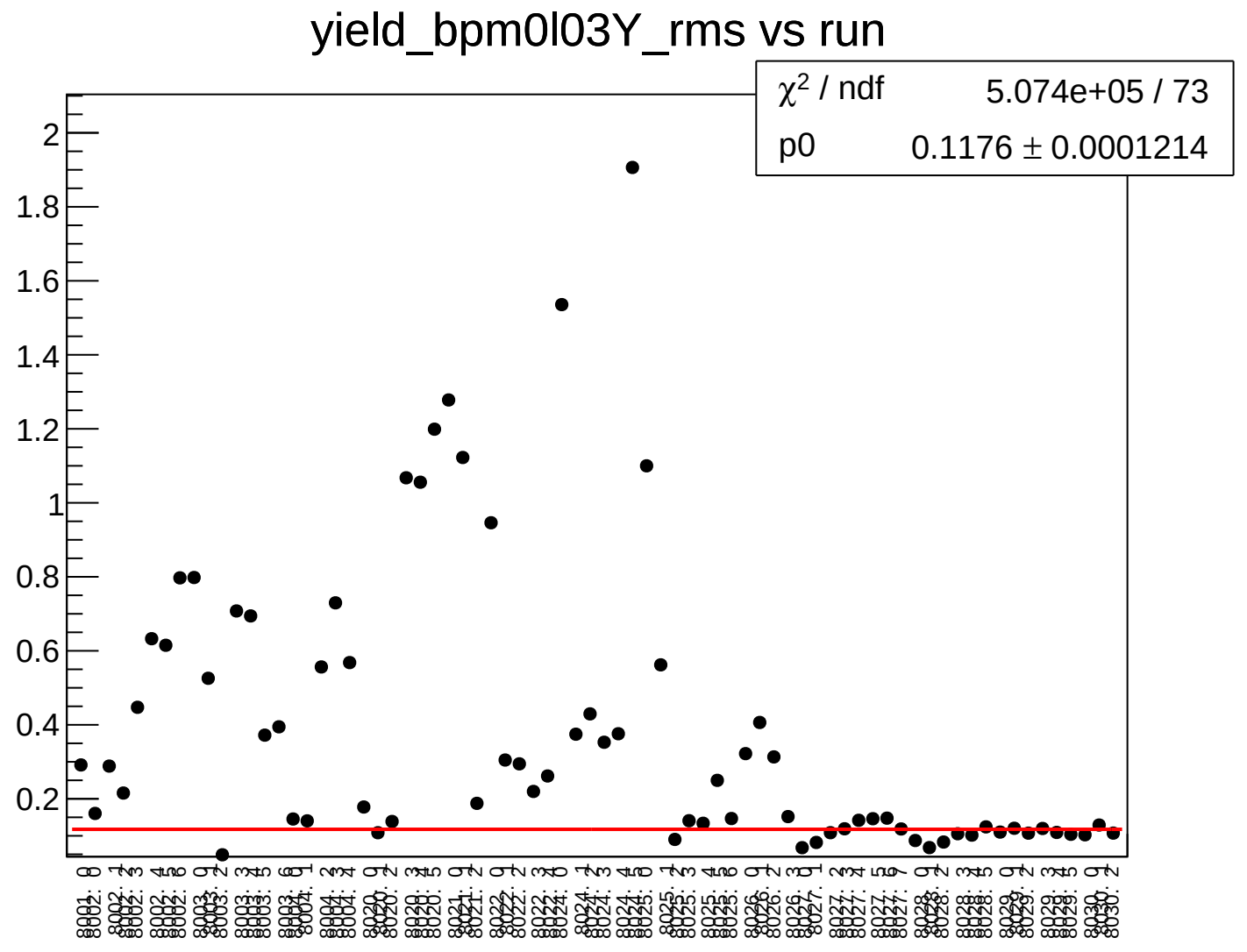

yield_bpm0l03X_mean vs run
χ² / ndf 2.924e+06 / 73
p0 −3.091± 0.0001717
pull
Entries 74
Mean 13.8
Std Dev 18.14

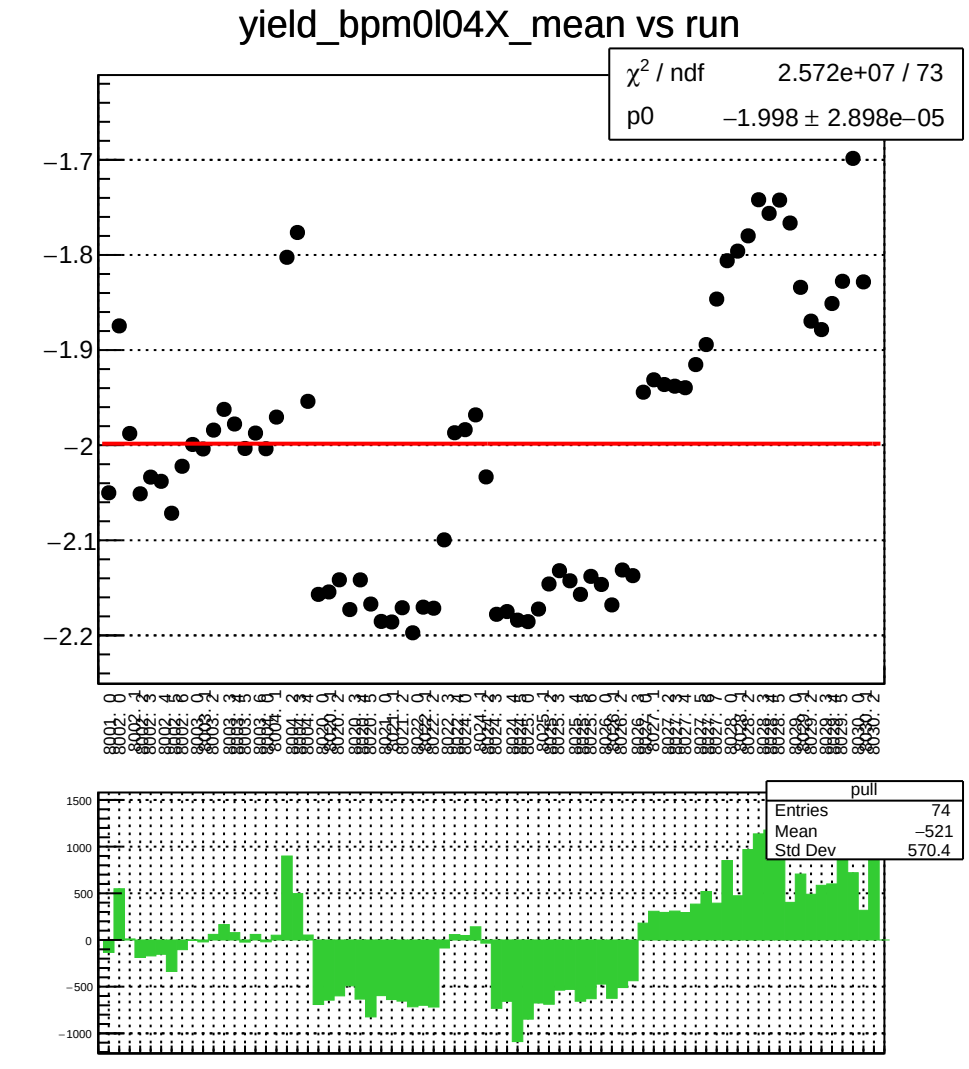

pull1D
Entries 74
Mean −0.5201
Std Dev 5.536

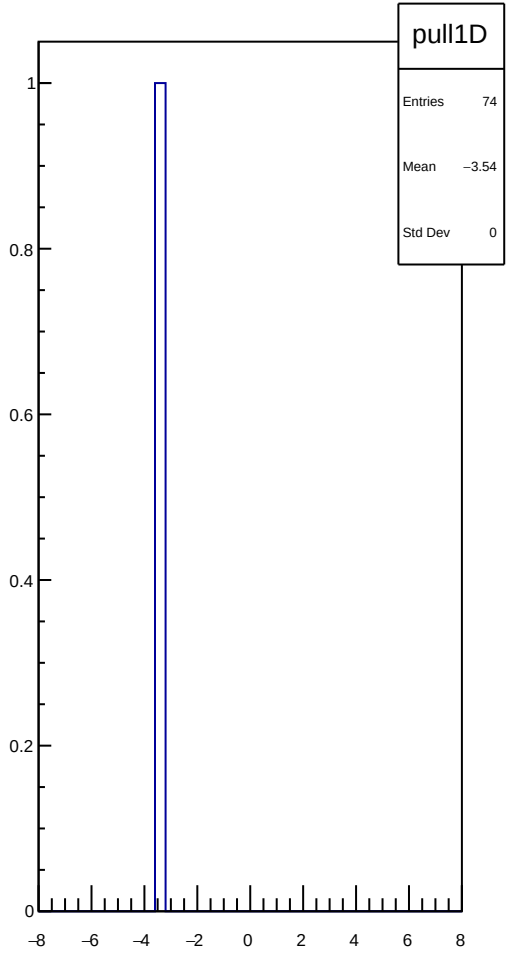

yield_bpm0l03X_rms vs run
χ² / ndf 5.068e+05 / 73
p0 0.1176 ± 0.0001214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

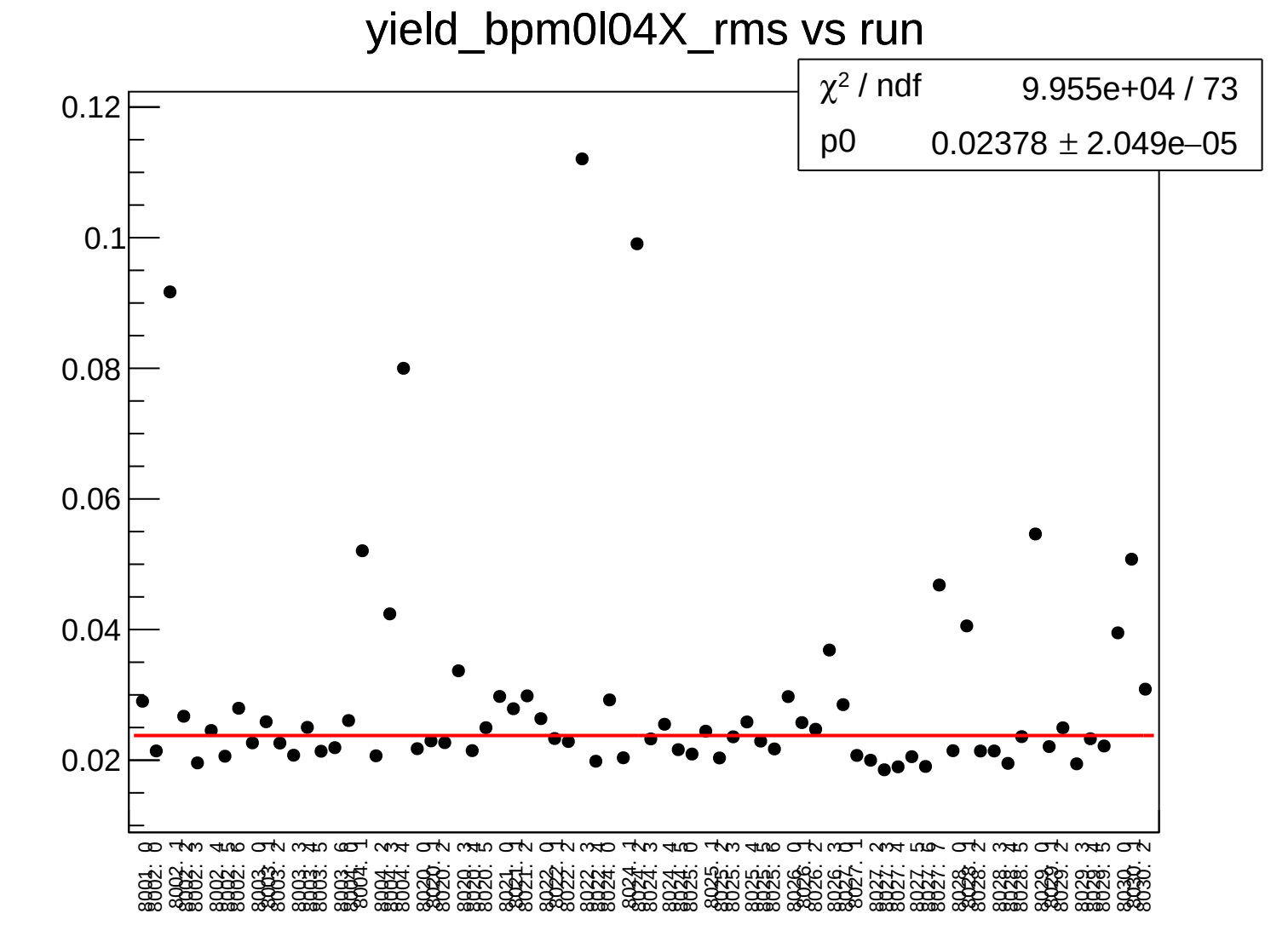

yield_bpm0l03Y_mean vs run
χ² / ndf 2.821e+06 / 73
p0 −0.3882 ± 0.0001716
pull
Entries 74
Mean 18.26
Std Dev 4.247

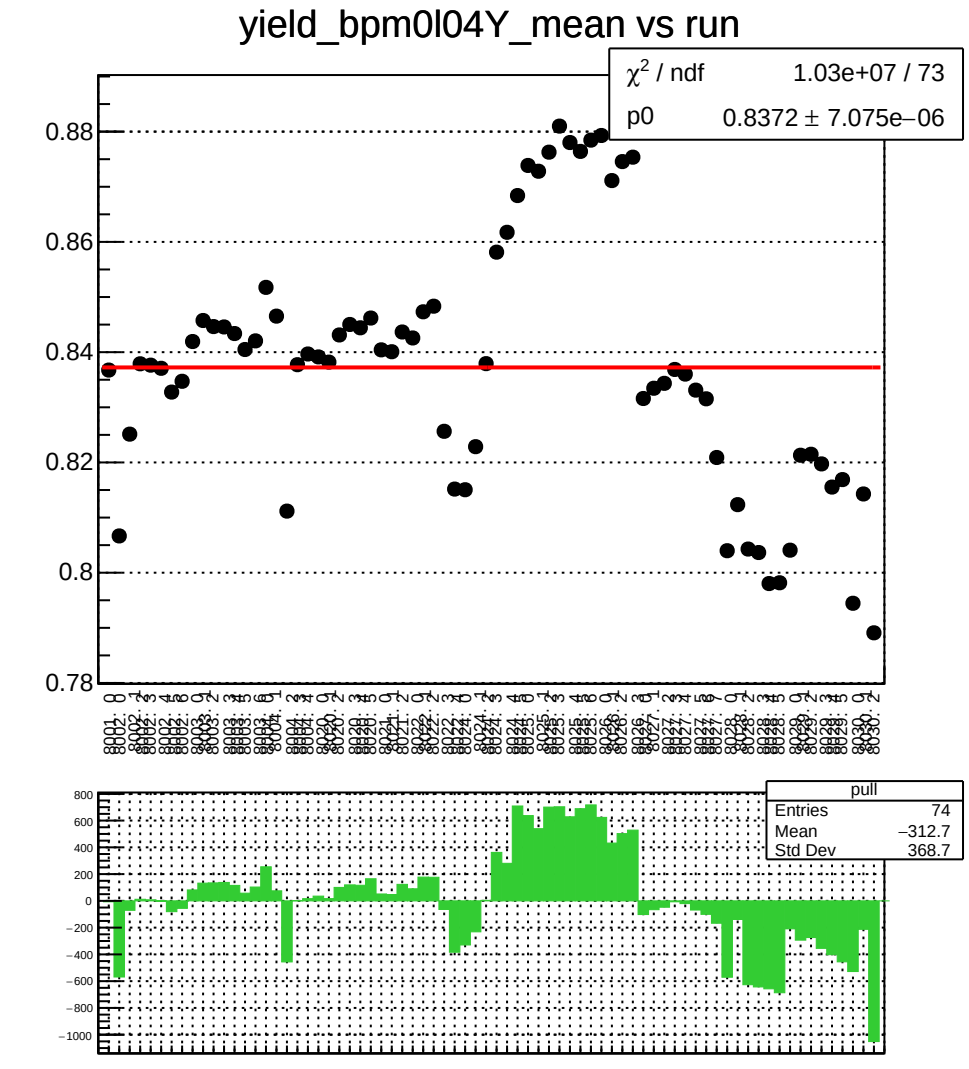

pull1D
Entries 74
Mean 5.848
Std Dev 1.287

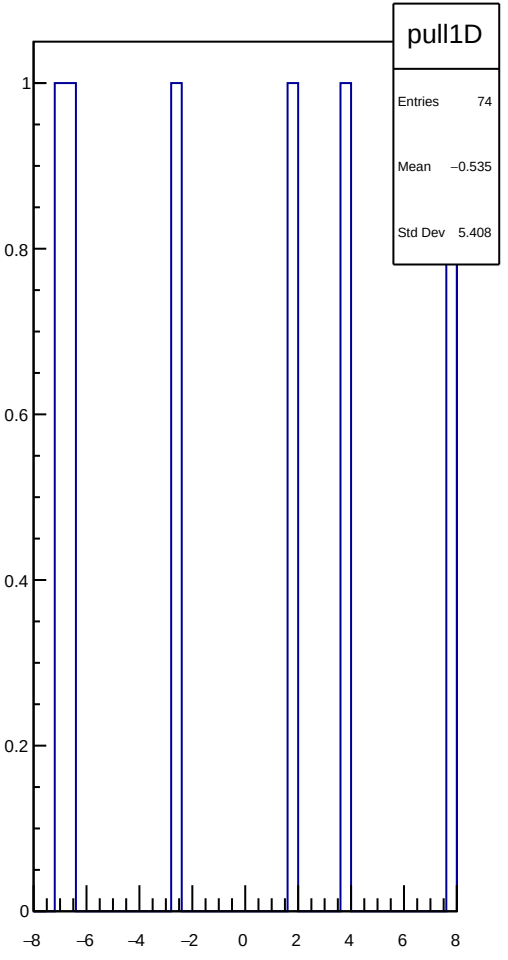

yield_bpm0l03Y_rms vs run
χ² / ndf 5.074e+05 / 73
p0 0.1176 ± 0.0001214
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

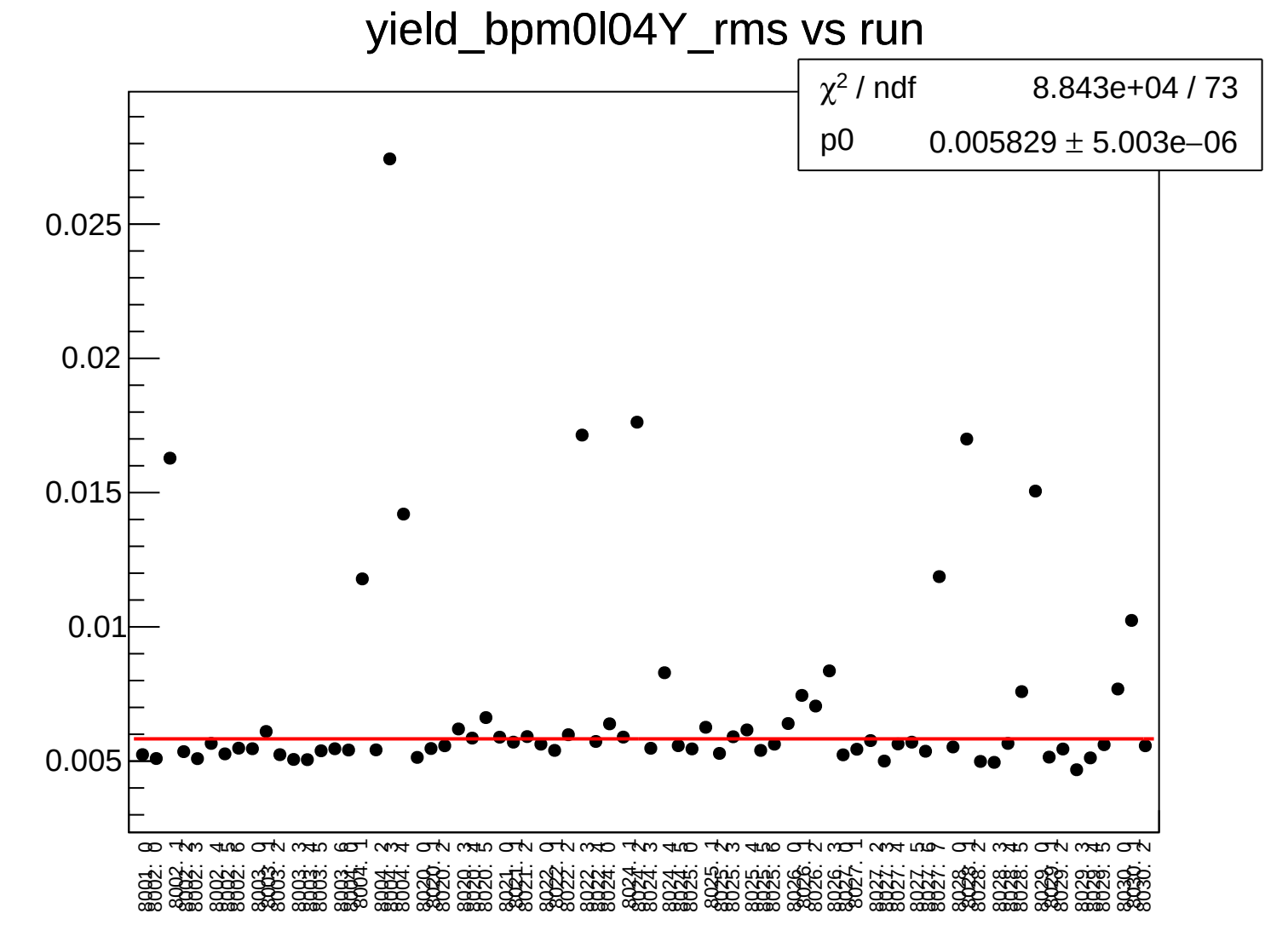

yield_bpm0l04X_mean vs run
χ² / ndf 2.572e+07 / 73
p0 −1.998 ± 2.898e−05
−1.7
−1.8
−1.9
−2
−2.1
−2.2
pull
Entries 74
Mean −521
Std Dev 570.4
1500
1000
500
0
−500
−1000

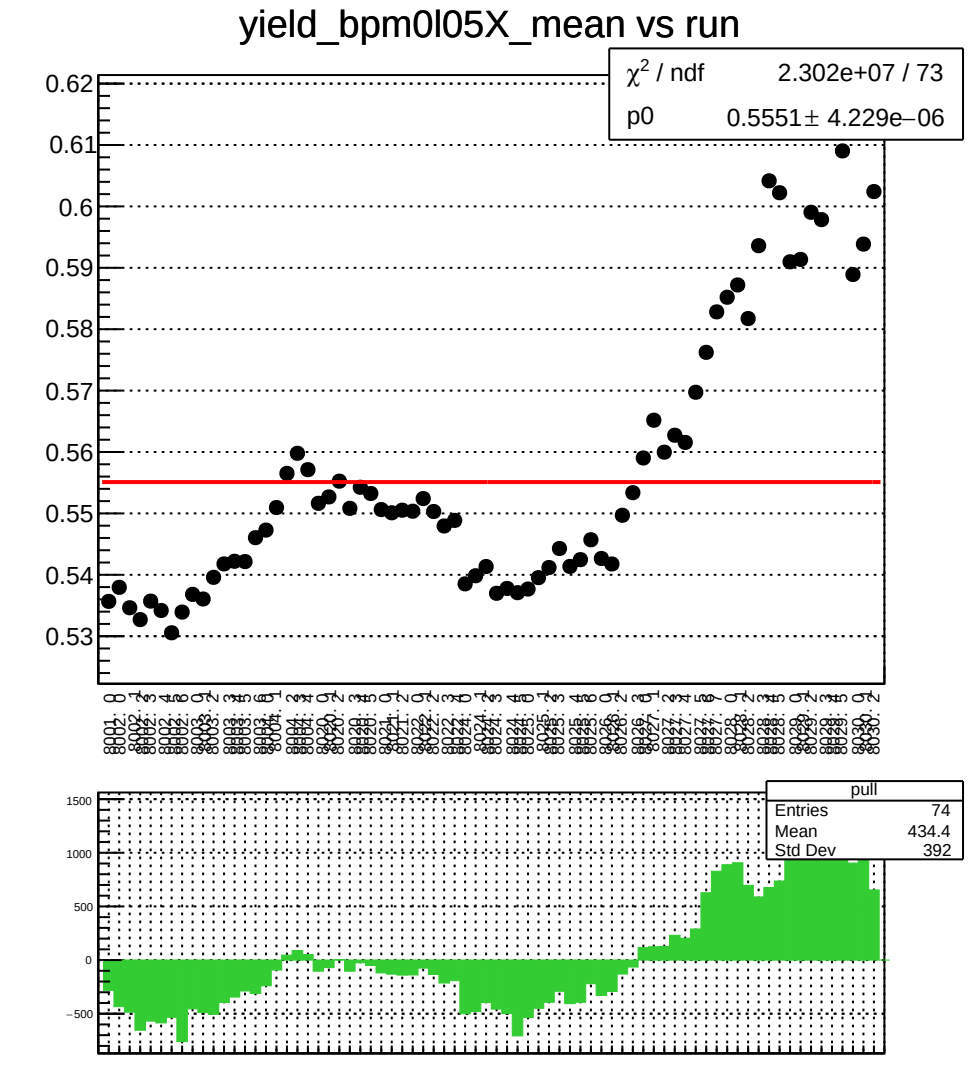

pull1D
Entries 74
Mean −3.54
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

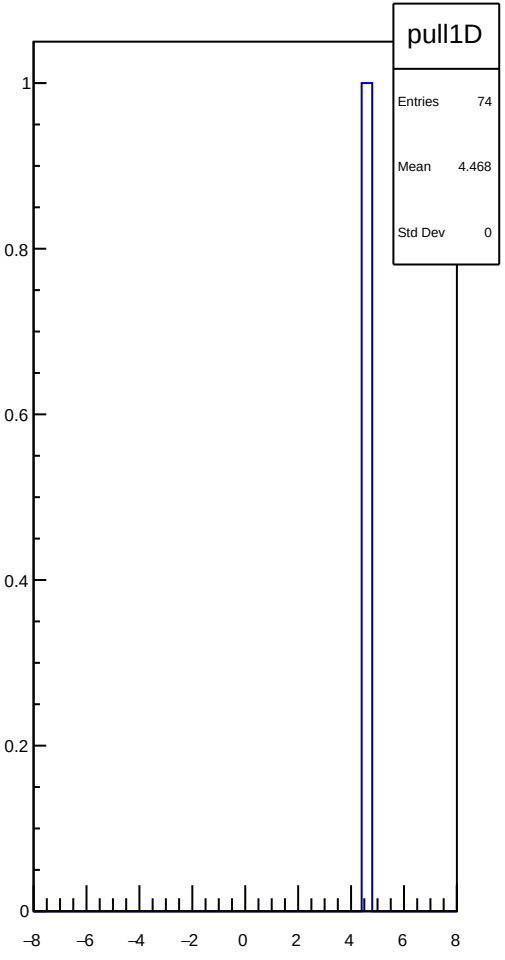

yield_bpm0l04X_rms vs run
χ² / ndf 9.955e+04 / 73
p0 0.02378 ± 2.049e–05
0.12
0.1
0.08
0.06
0.04
0.02

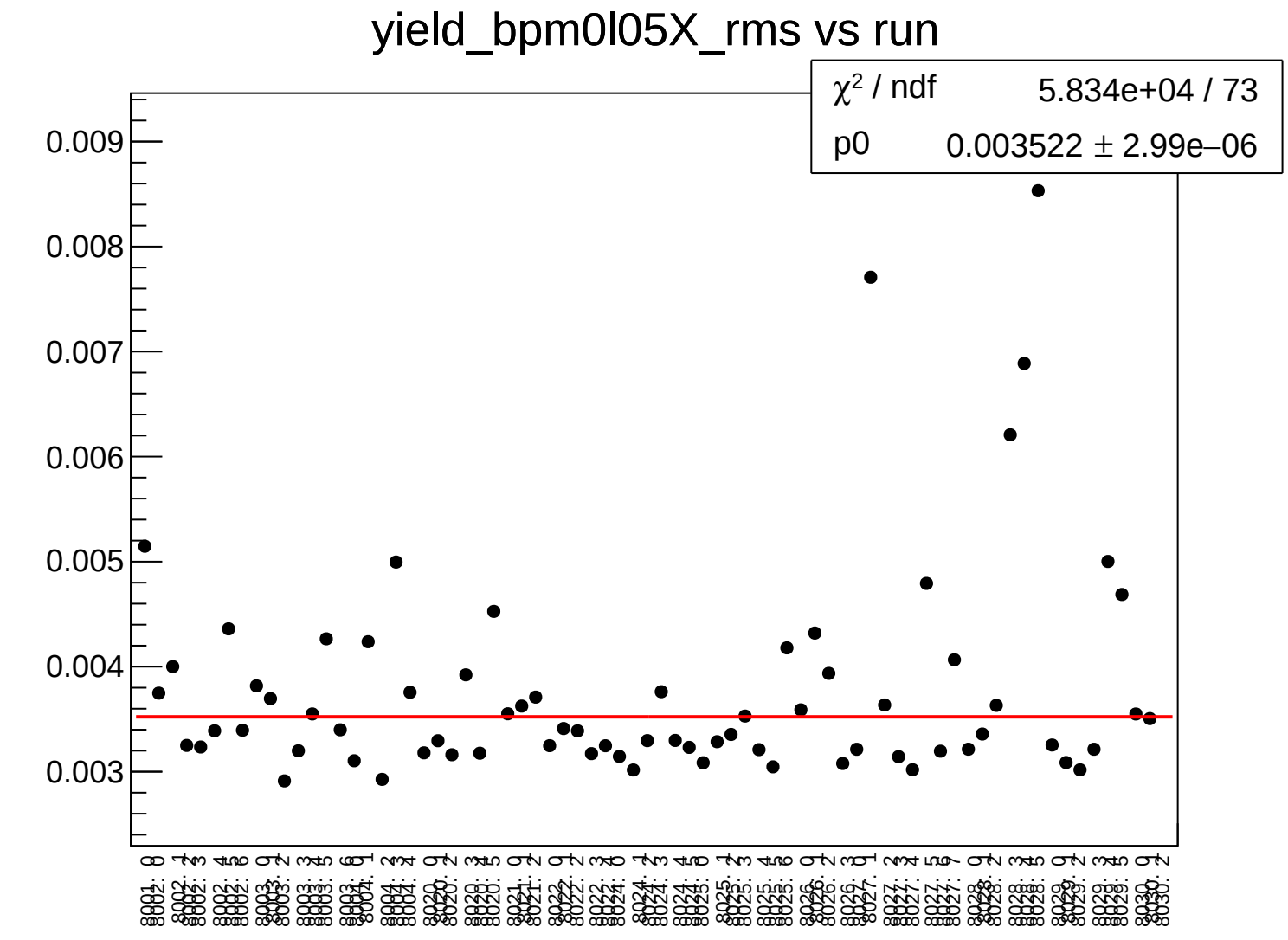

yield_bpm0l04Y_mean vs run
χ² / ndf 1.03e+07 / 73
p0 0.8372 ± 7.075e−06
0.88
0.86
0.84
0.82
0.8
0.78
pull
Entries 74
Mean −312.7
Std Dev 368.7
800
600
400
200
0
−200
−400
−600
−800
−1000

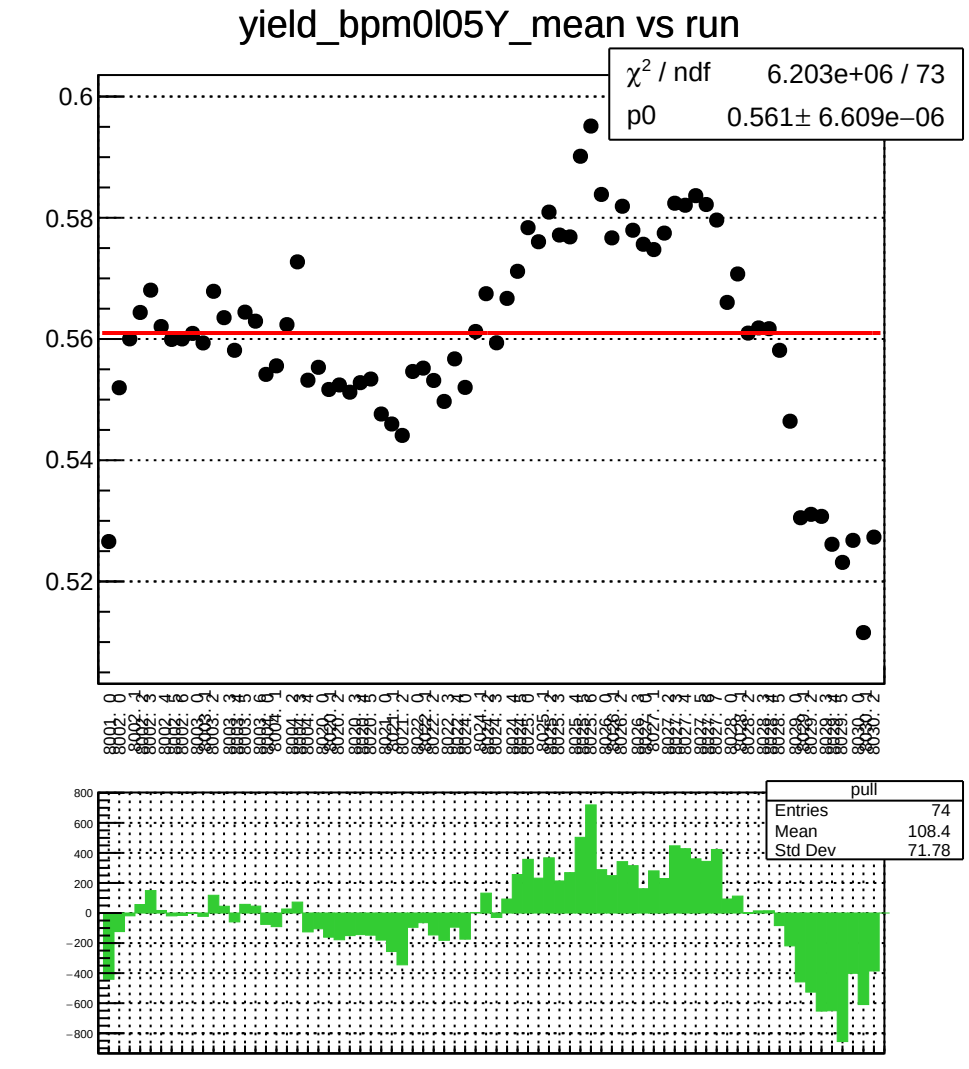

pull1D
Entries 74
Mean −0.535
Std Dev 5.408
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

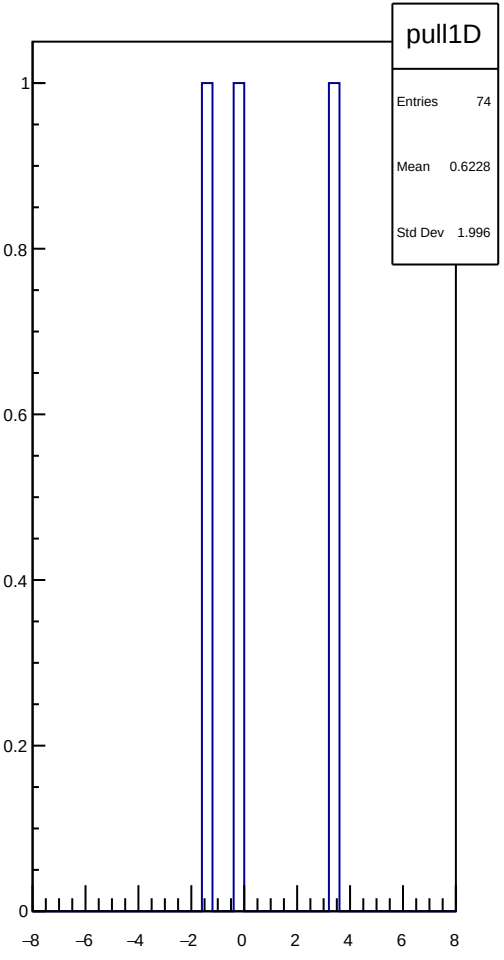

yield_bpm0l04Y_rms vs run
χ² / ndf 8.843e+04 / 73
p0 0.005829 ± 5.003e−06
0.025
0.02
0.015
0.01
0.005

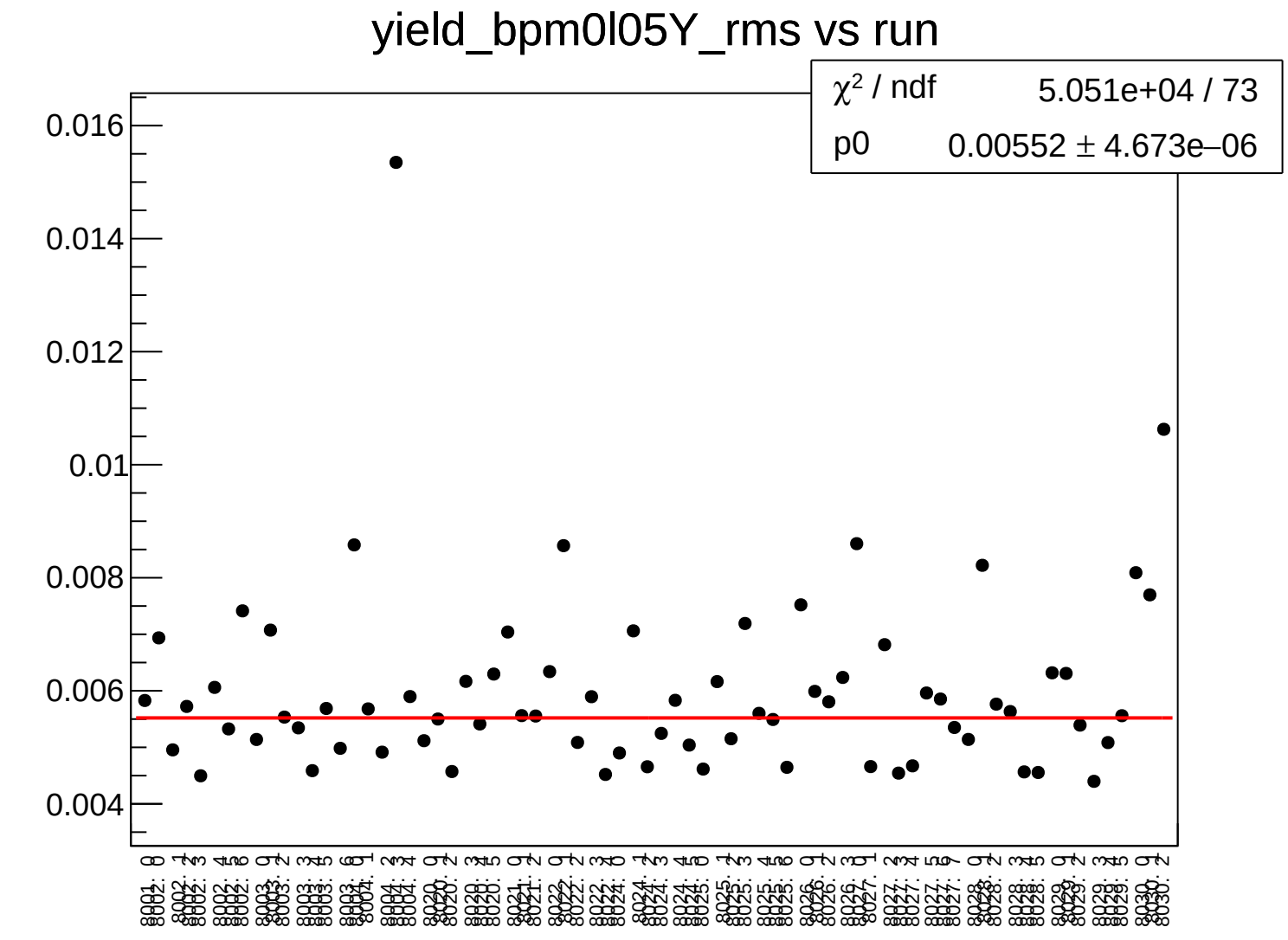

yield_bpm0l05X_mean vs run
χ² / ndf 2.302e+07 / 73
p0 0.5551 ± 4.229e−06
pull
Entries 74
Mean 434.4
Std Dev 392

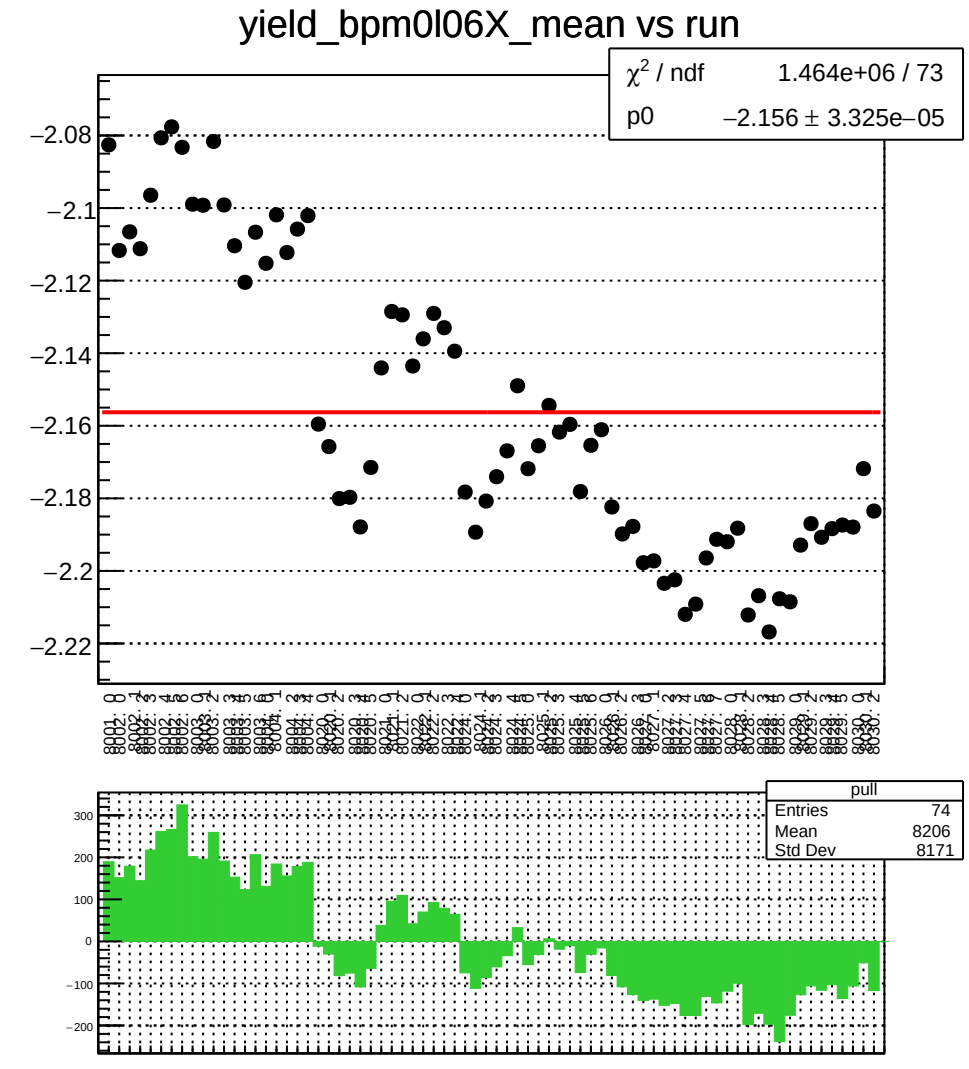

pull1D
Entries 74
Mean 4.468
Std Dev 0

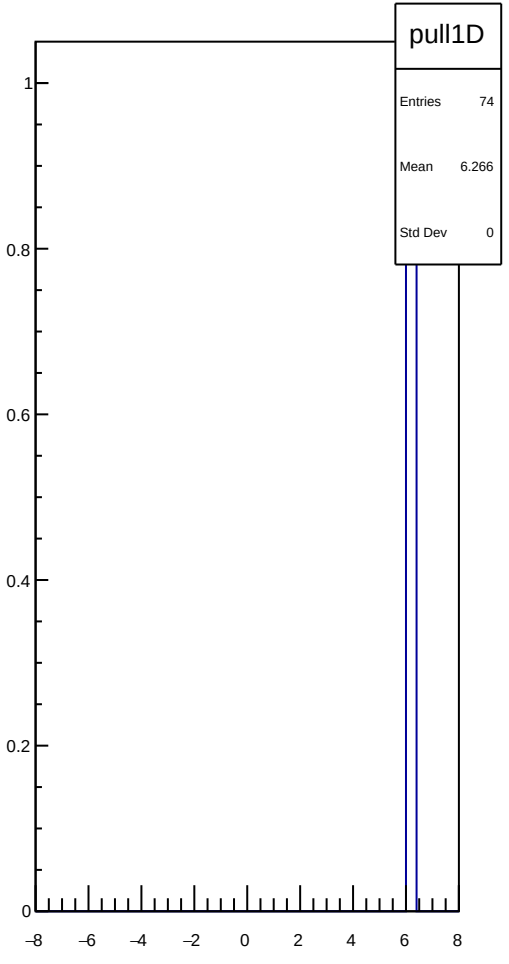

yield_bpm0l05X_rms vs run
χ² / ndf 5.834e+04 / 73
p0 0.003522 ± 2.99e−06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

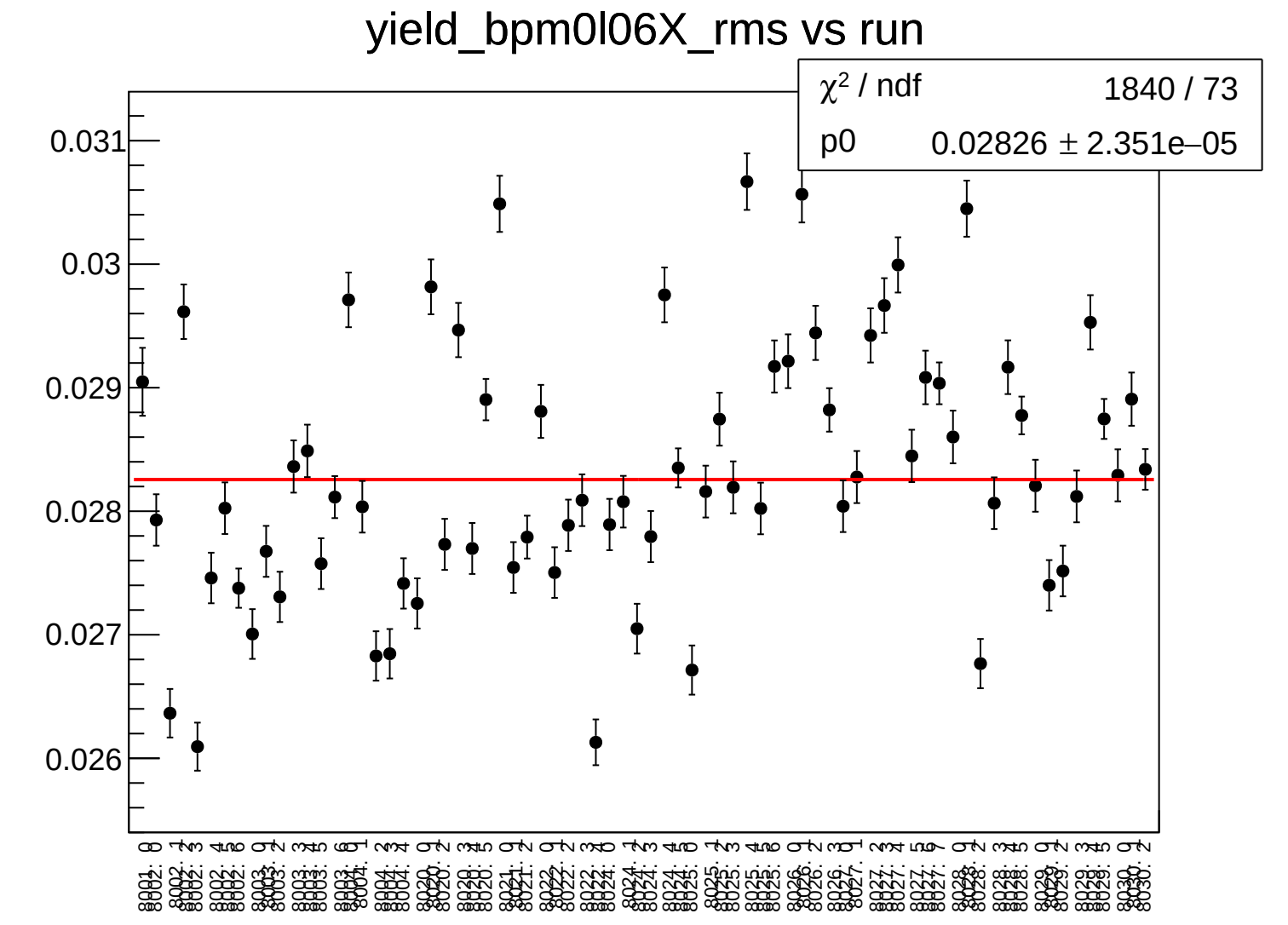

yield_bpm0l05Y_mean vs run
χ² / ndf 6.203e+06 / 73
p0 0.561± 6.609e−06
0.6
0.58
0.56
0.54
0.52
pull
Entries 74
Mean 108.4
Std Dev 71.78
800
600
400
200
0
−200
−400
−600
−800

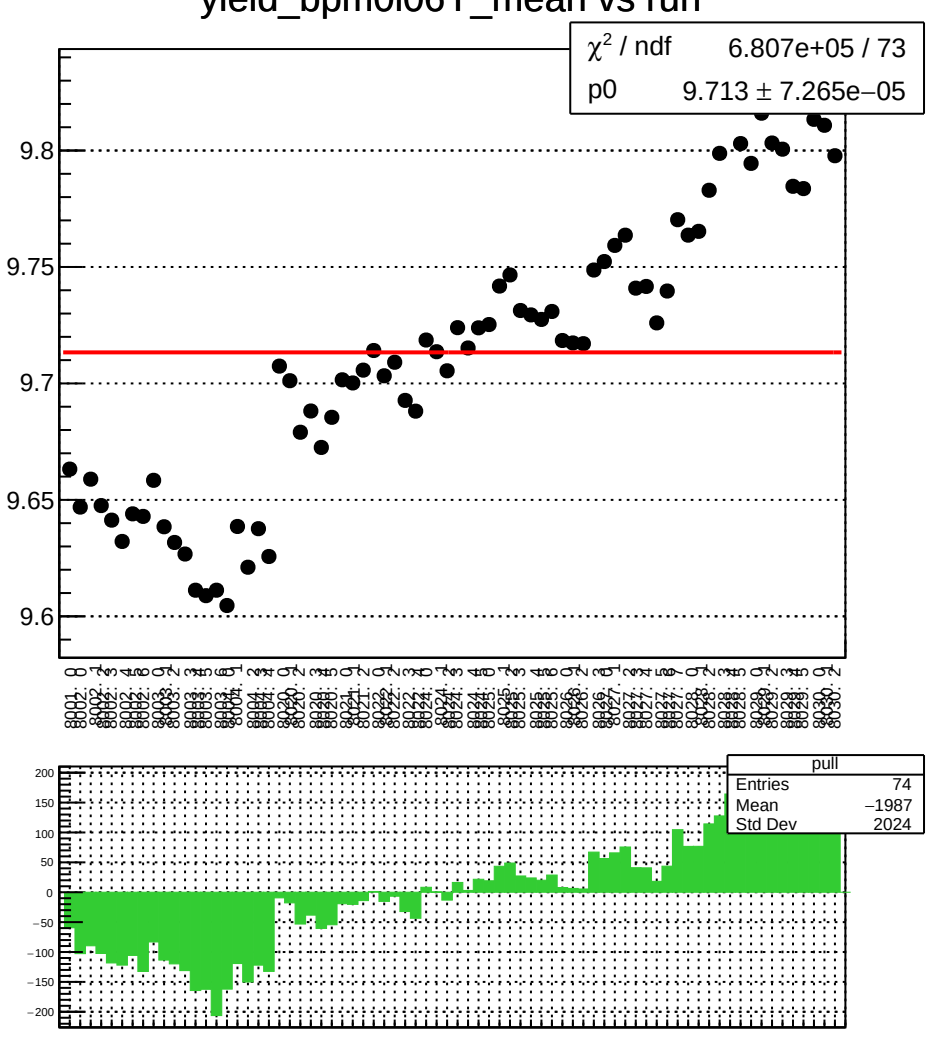

pull1D
Entries 74
Mean 0.6228
Std Dev 1.996
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

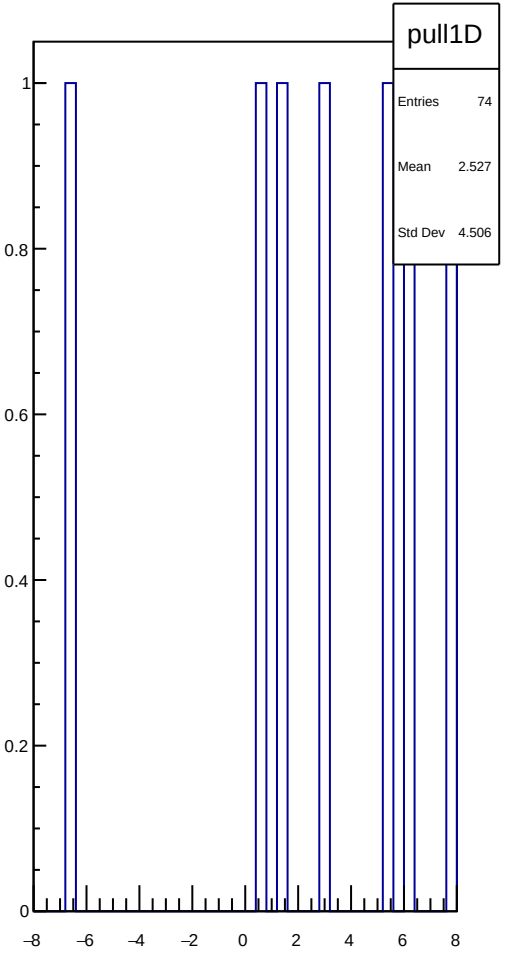

yield_bpm0l05Y_rms vs run
χ² / ndf 5.051e+04 / 73
p0 0.00552 ± 4.673e–06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

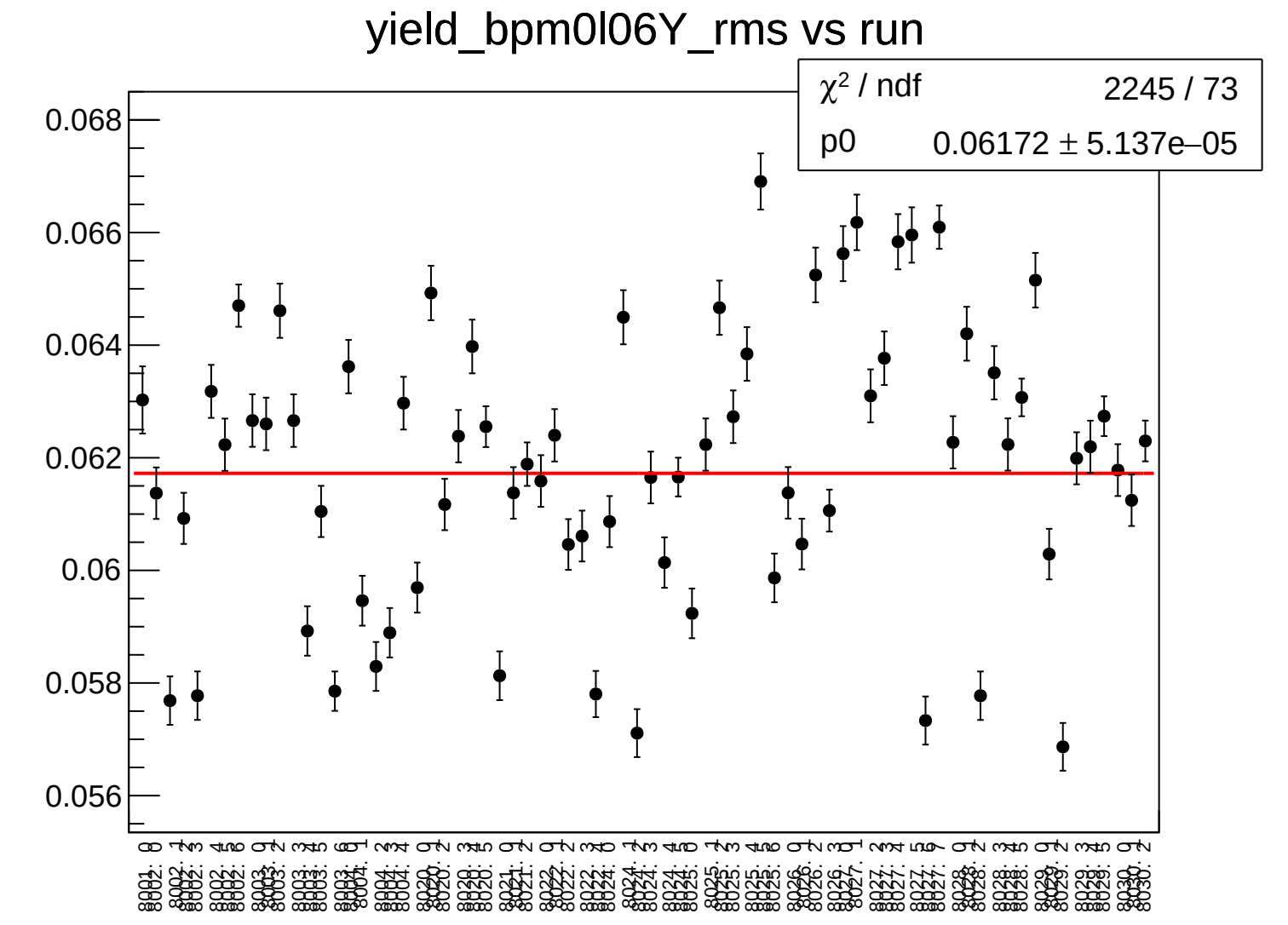

yield_bpm0l06X_mean vs run
χ² / ndf 1.464e+06 / 73
p0 −2.156 ± 3.325e−05
−2.08
−2.1
−2.12
−2.14
−2.16
−2.18
−2.2
−2.22
pull
Entries 74
Mean 8206
Std Dev 8171
300
200
100
0
−100
−200

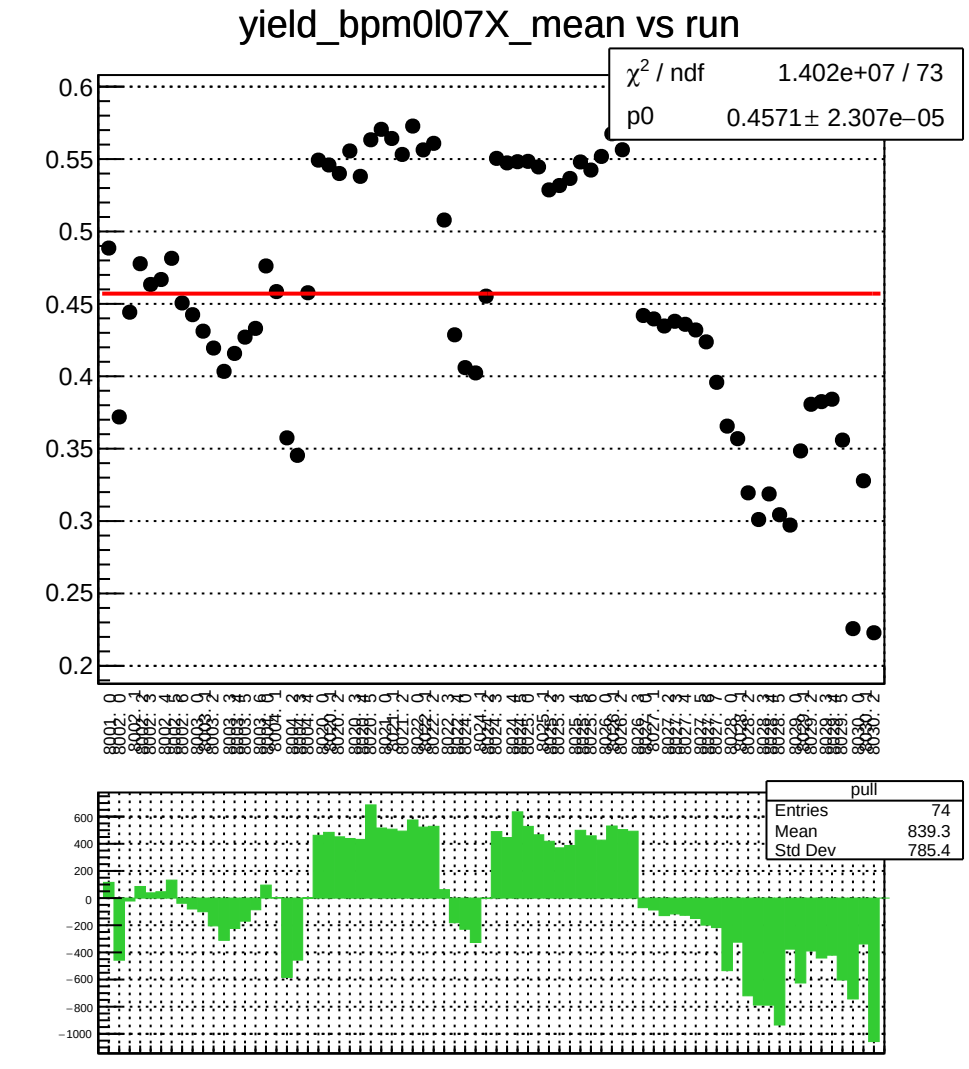

pull1D
Entries 74
Mean 6.266
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

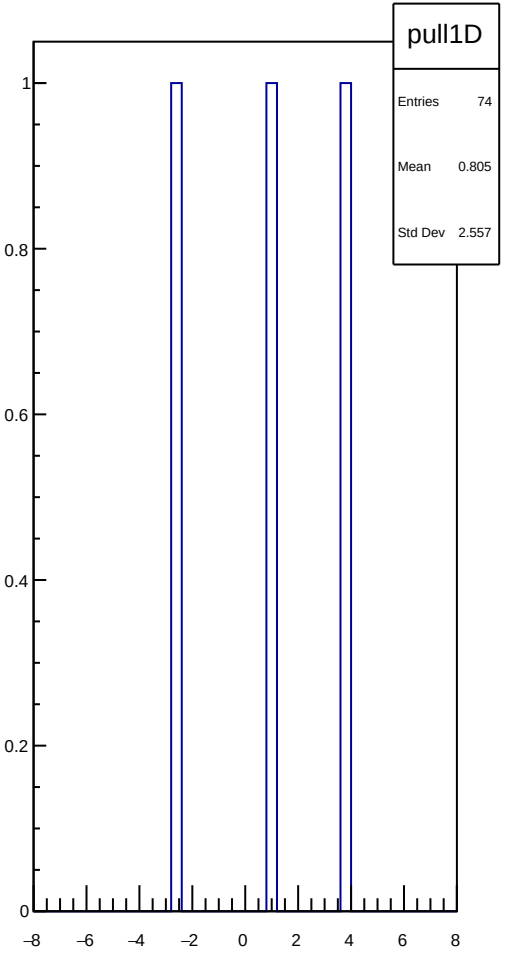

yield_bpm0l06X_rms vs run
χ² / ndf 1840 / 73
p0 0.02826 ± 2.351e–05
0.031
0.03
0.029
0.028
0.027
0.026

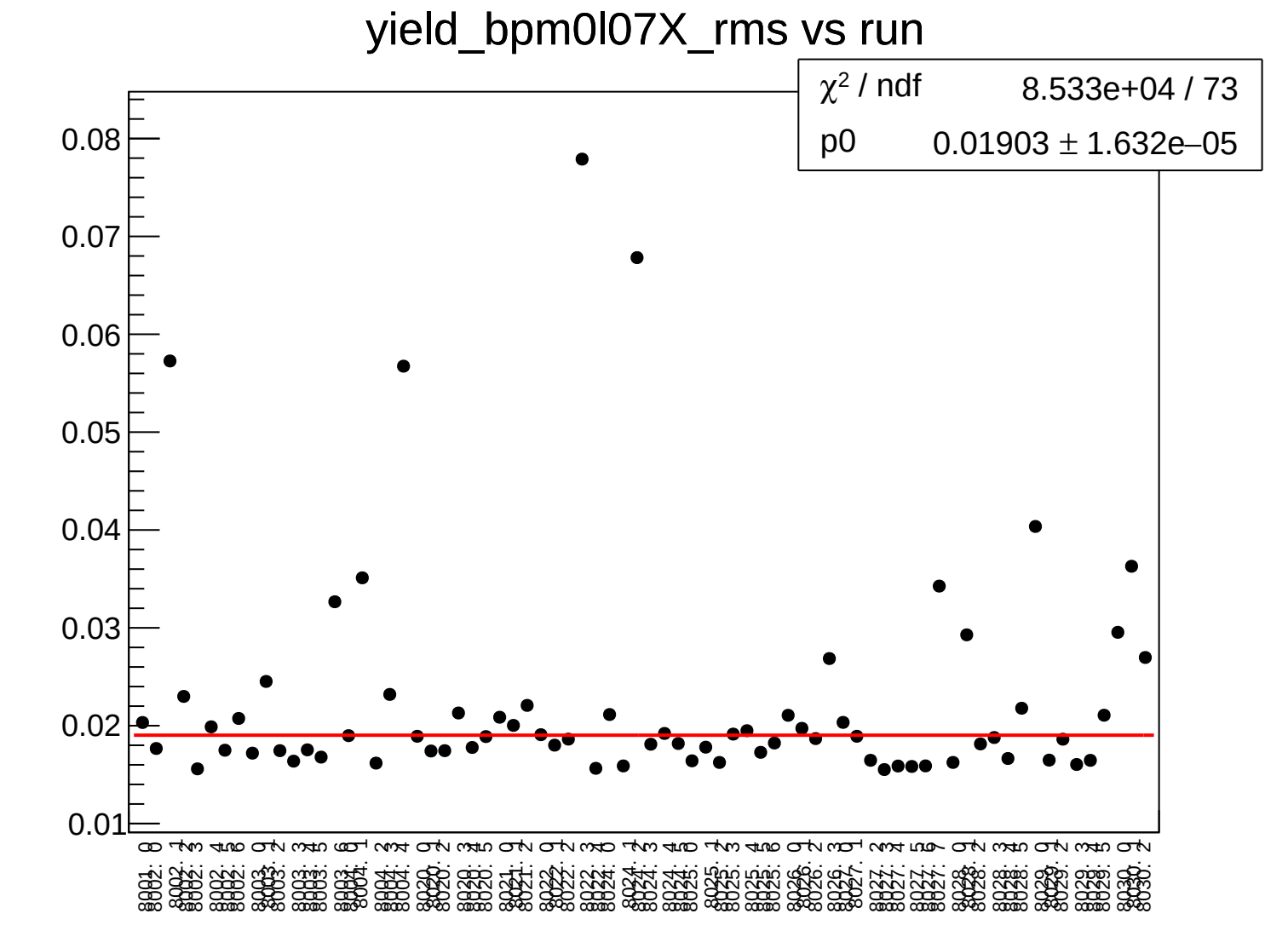

yield_bpm0l06Y_mean vs run
χ² / ndf 6.807e+05 / 73
p0 9.713 ± 7.265e−05
9.8
9.75
9.7
9.65
9.6
pull
Entries 74
Mean −1987
Std Dev 2024
200
150
100
50
0
−50
−100
−150
−200

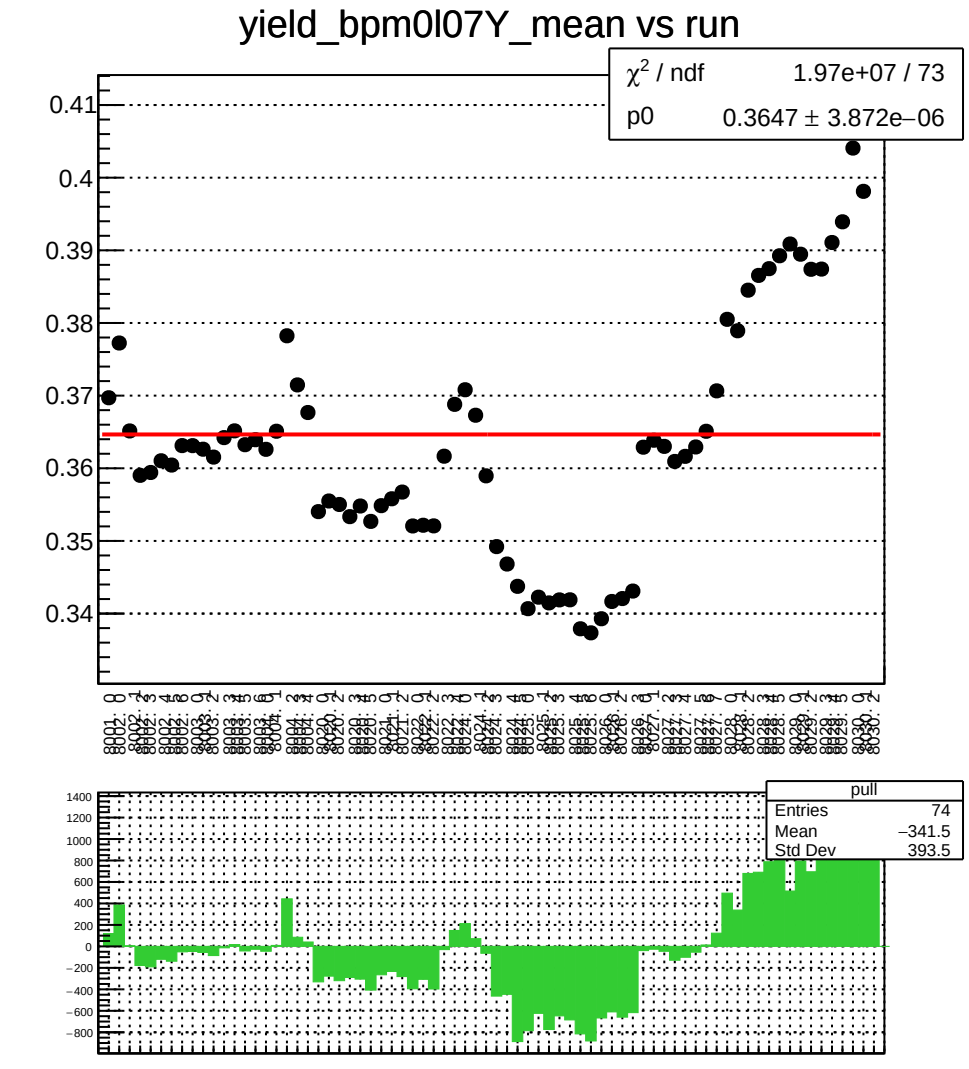

pull1D
Entries 74
Mean 2.527
Std Dev 4.506
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

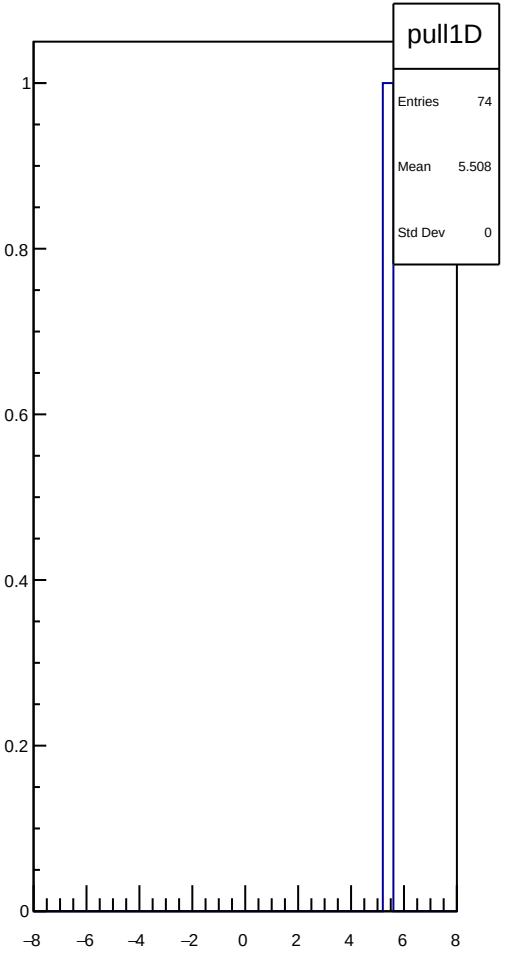

yield_bpm0l06Y_rms vs run
χ² / ndf 2245 / 73
p0 0.06172 ± 5.137e−05
0.068
0.066
0.064
0.062
0.06
0.058
0.056

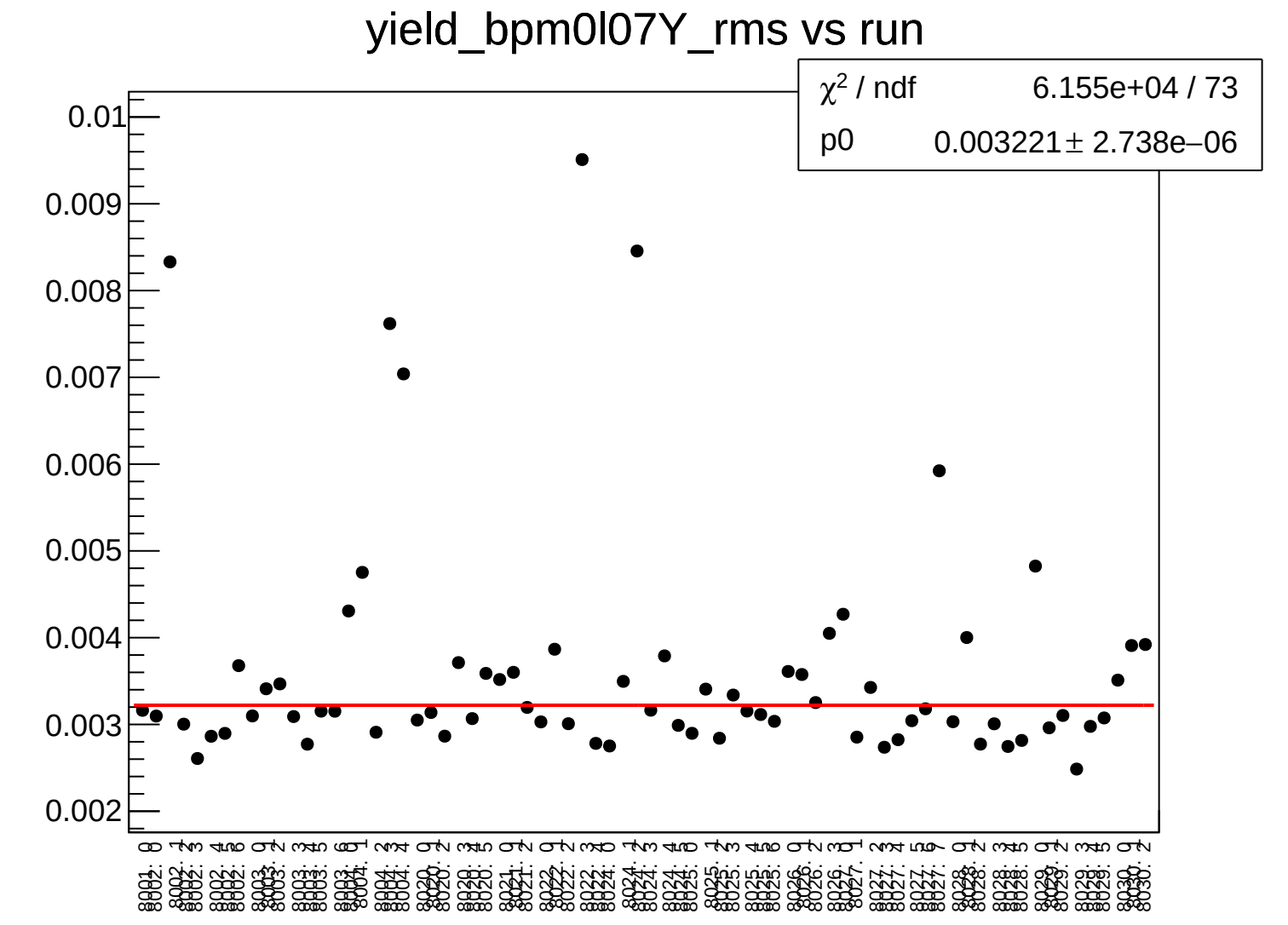

yield_bpm0l07X_mean vs run
χ² / ndf 1.402e+07 / 73
p0 0.4571± 2.307e−05
pull
Entries 74
Mean 839.3
Std Dev 785.4

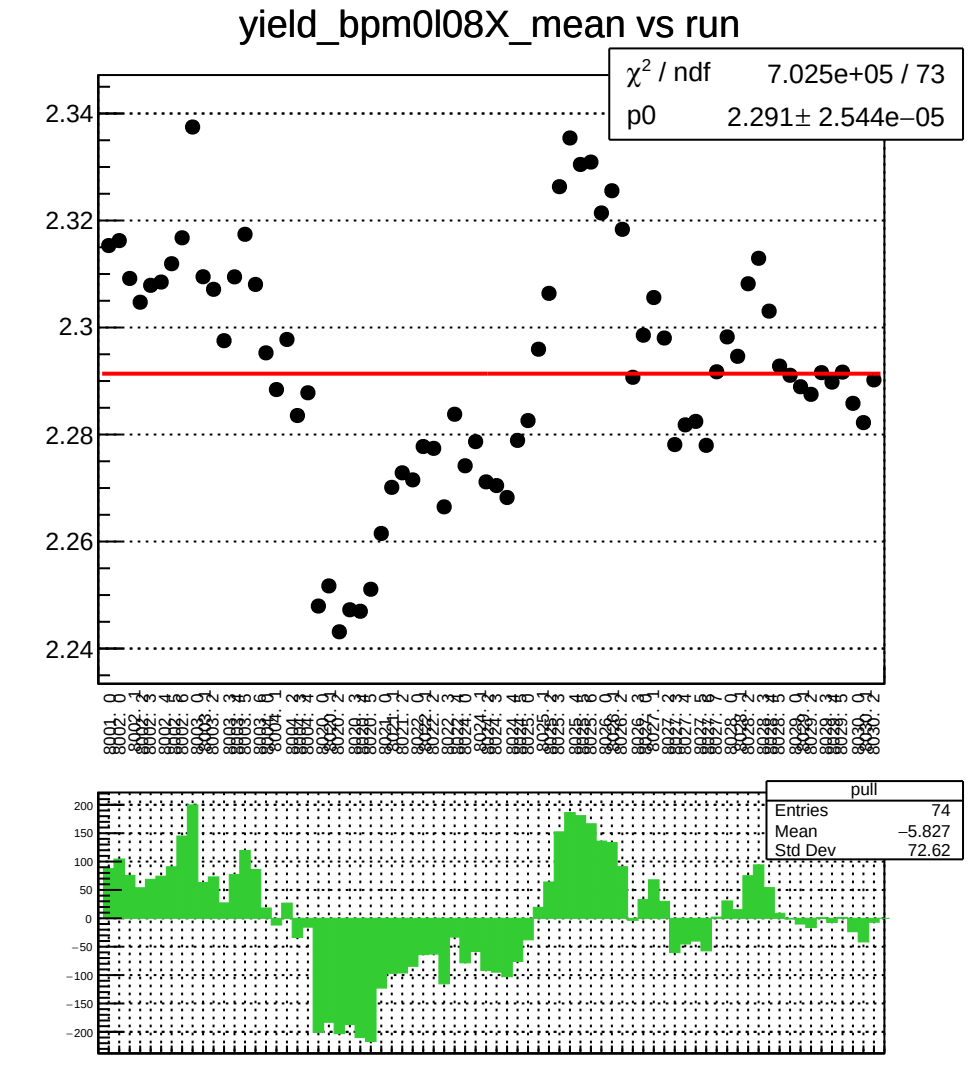

pull1D
Entries 74
Mean 0.805
Std Dev 2.557

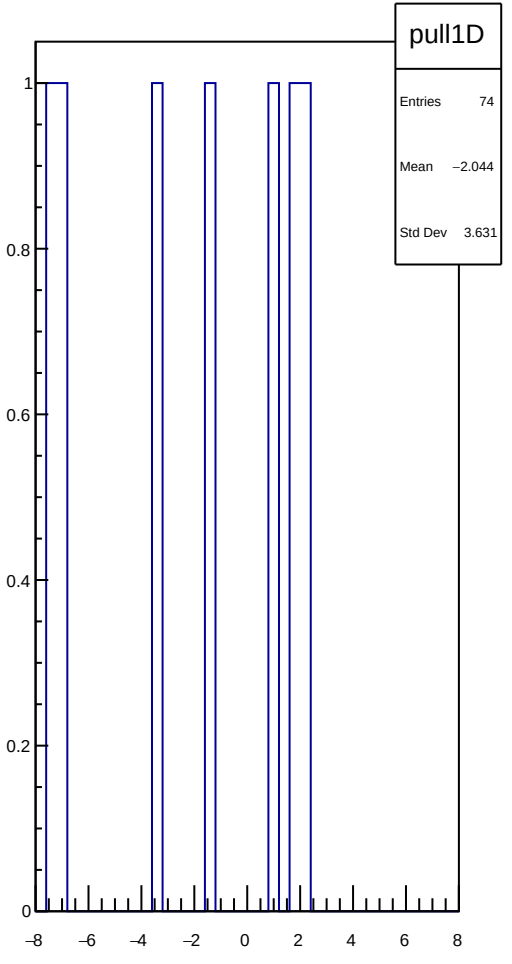

yield_bpm0l07X_rms vs run
χ² / ndf 8.533e+04 / 73
p0 0.01903 ± 1.632e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

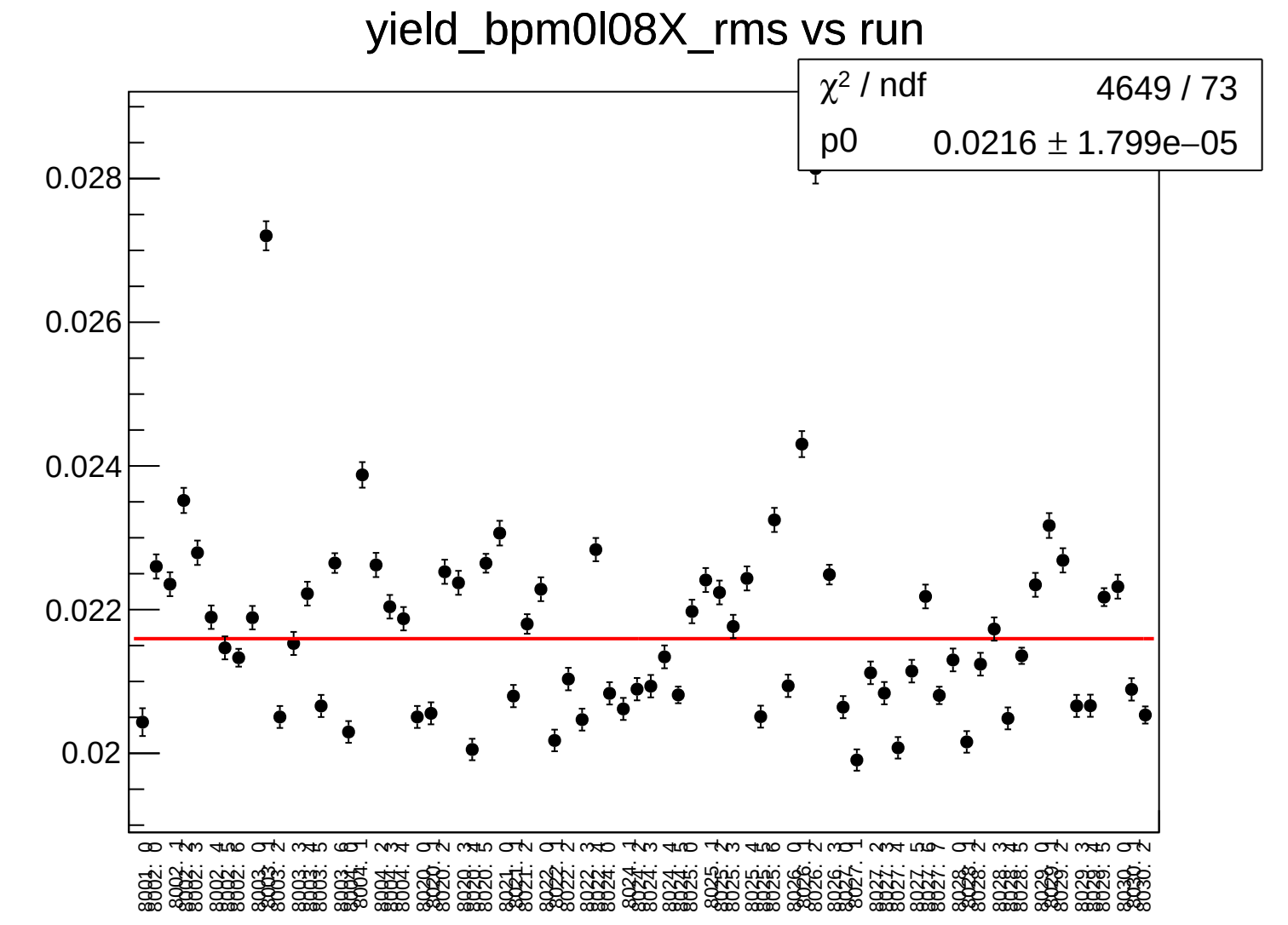

yield_bpm0l07Y_mean vs run
χ² / ndf 1.97e+07 / 73
p0 0.3647 ± 3.872e−06
pull
Entries 74
Mean −341.5
Std Dev 393.5

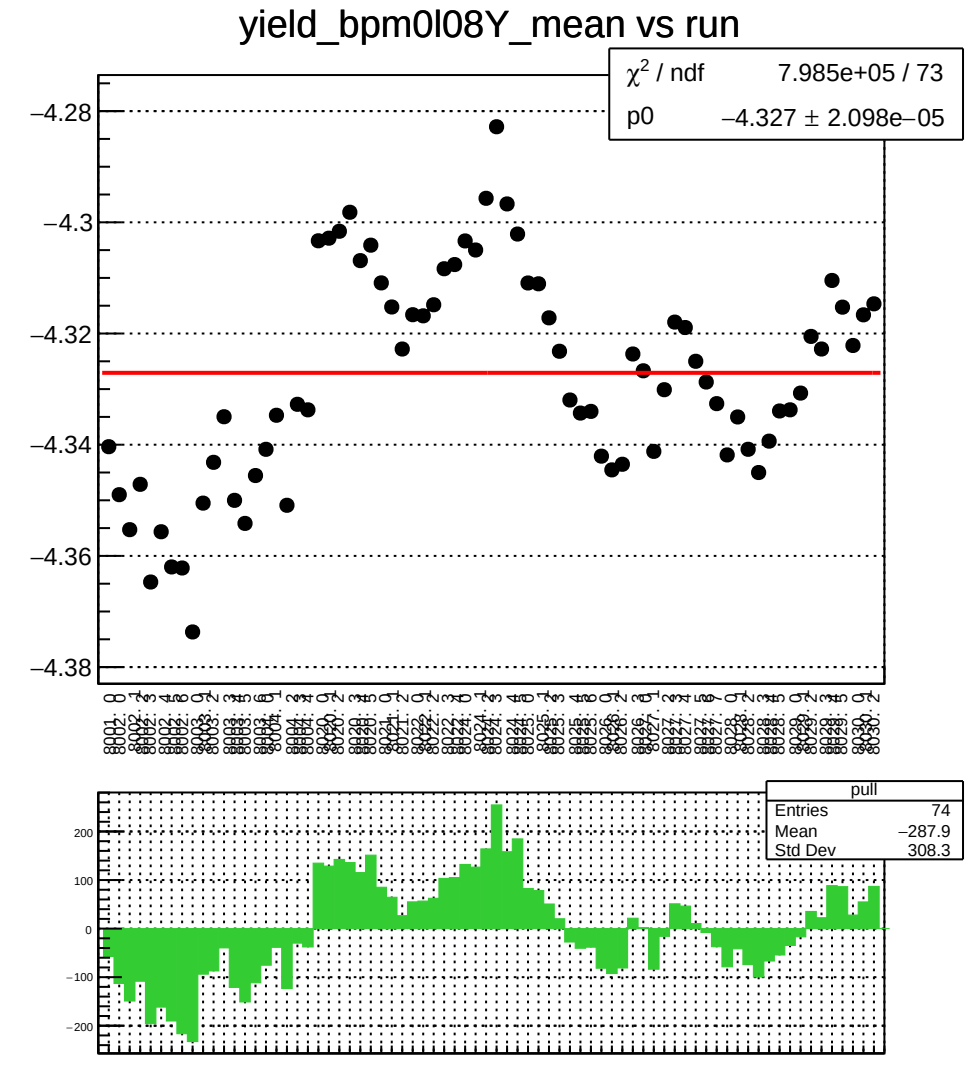

pull1D
Entries 74
Mean 5.508
Std Dev 0

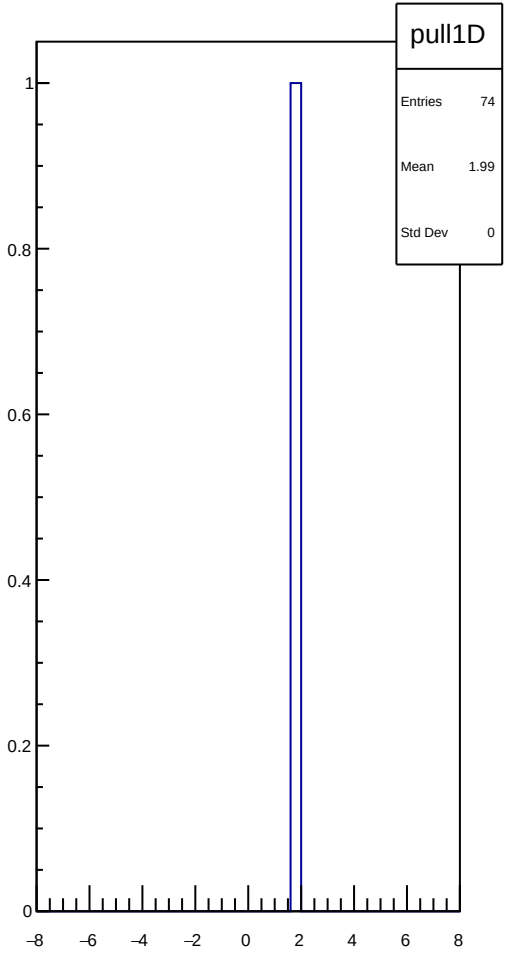

yield_bpm0l07Y_rms vs run
χ² / ndf 6.155e+04 / 73
p0 0.003221 ± 2.738e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

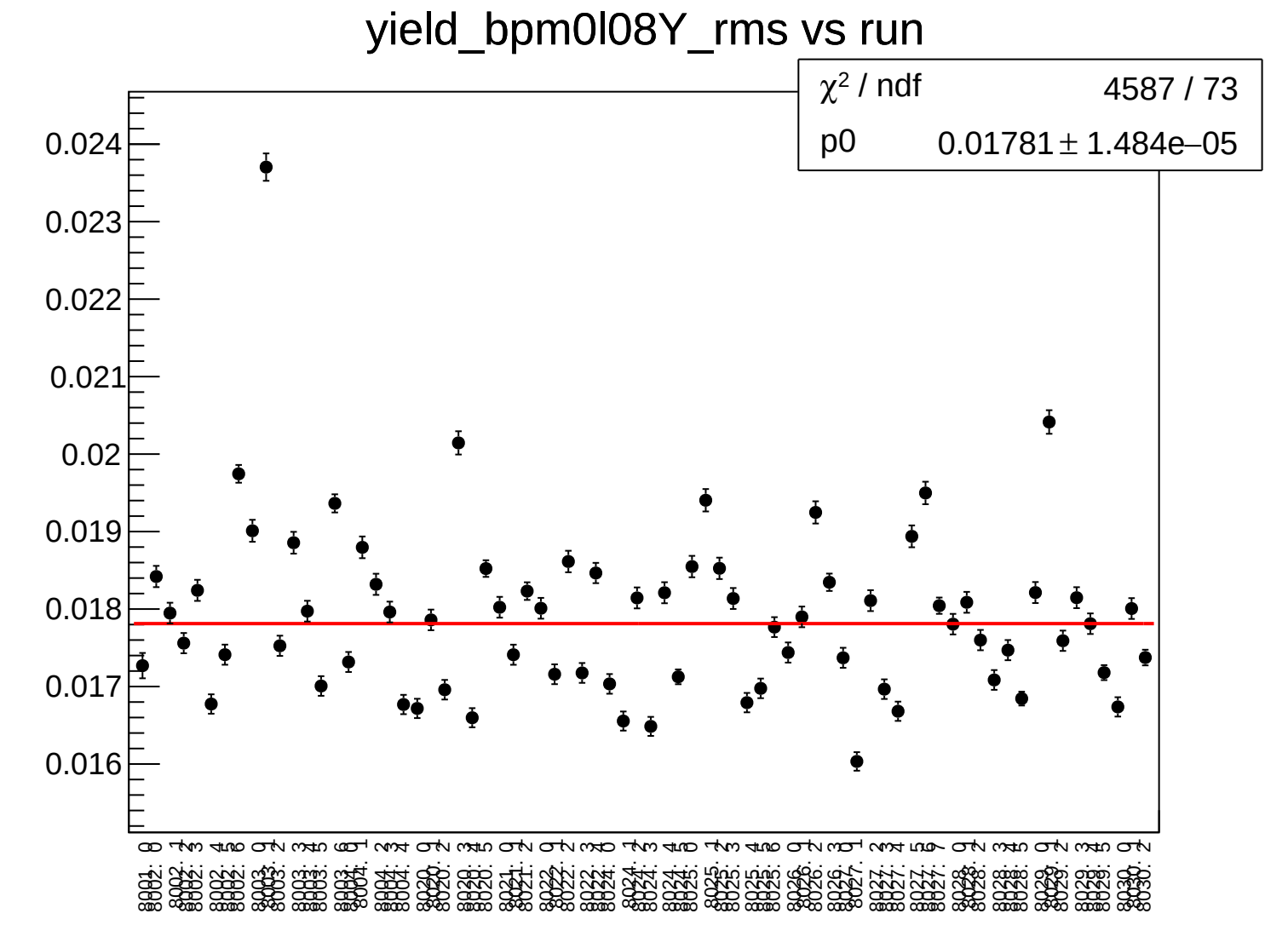

yield_bpm0l08X_mean vs run
χ² / ndf 7.025e+05 / 73
p0 2.291± 2.544e−05
2.34
2.32
2.3
2.28
2.26
2.24
pull
Entries 74
Mean −5.827
Std Dev 72.62
200
150
100
50
0
−50
−100
−150
−200

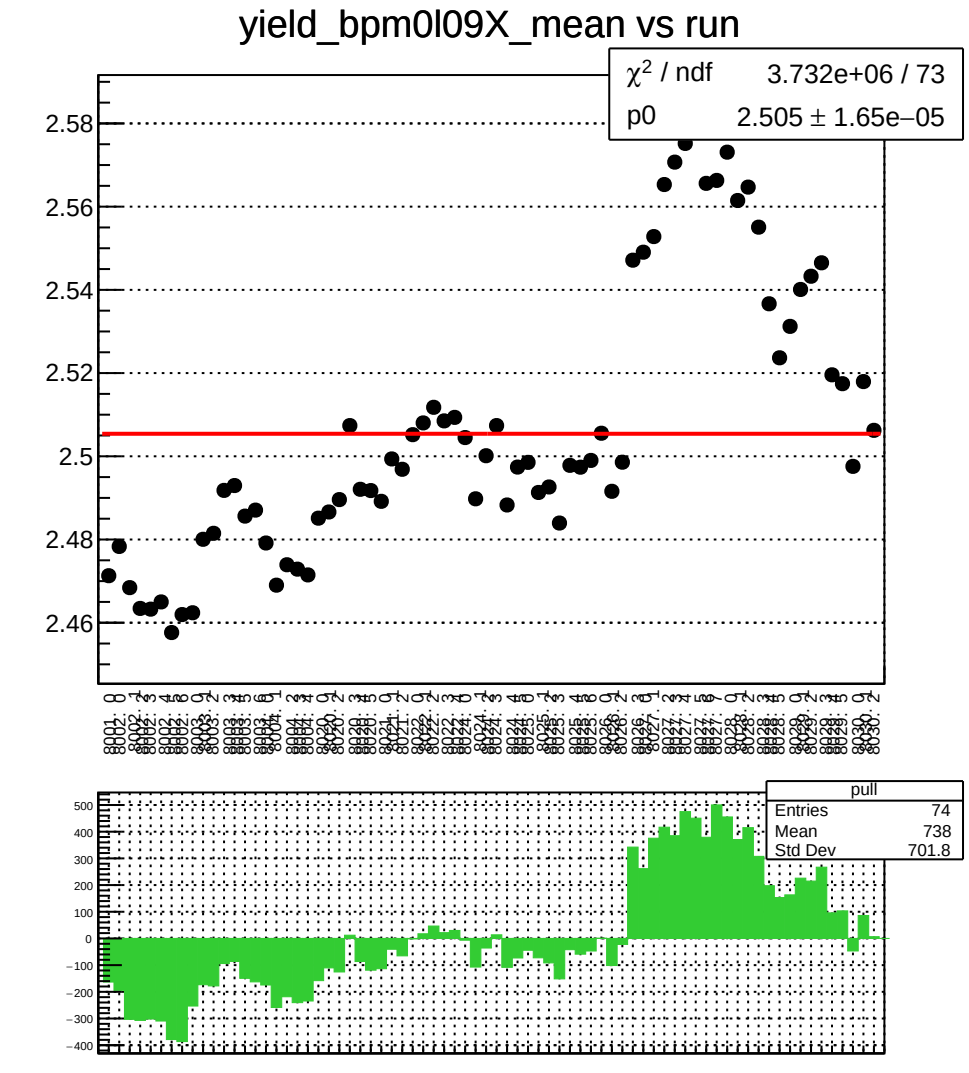

pull1D
Entries 74
Mean −2.044
Std Dev 3.631
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

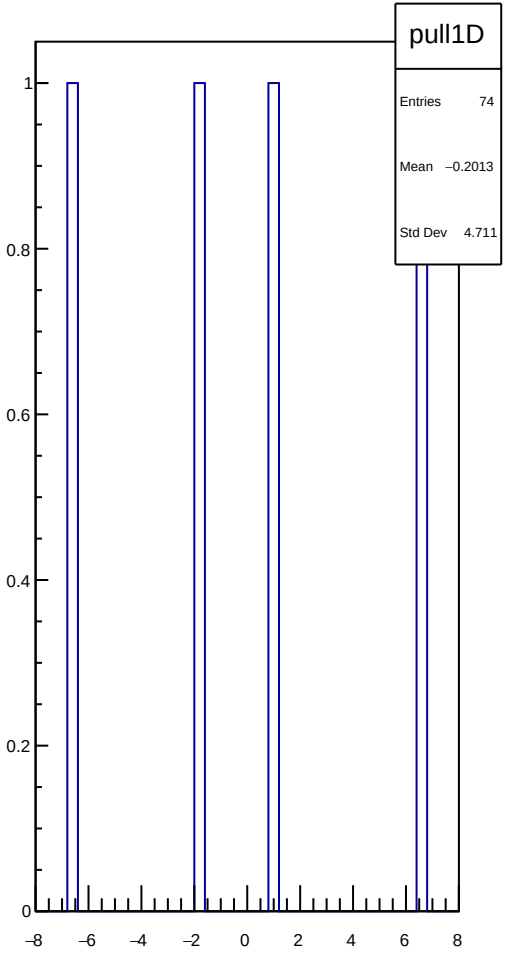

yield_bpm0l08X_rms vs run
χ² / ndf 4649 / 73
p0 0.0216 ± 1.799e−05
0.028
0.026
0.024
0.022
0.02

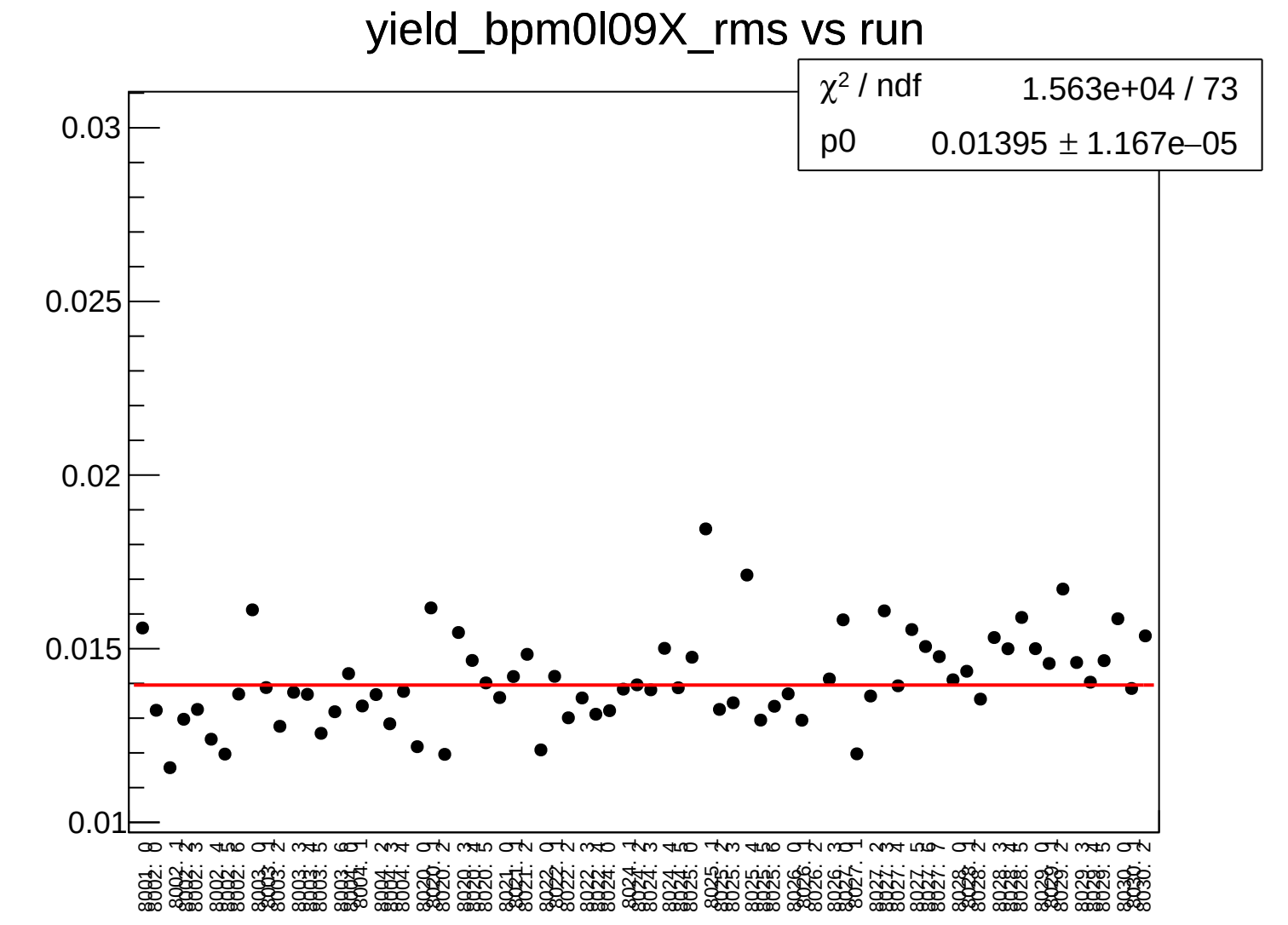

yield_bpm0l08Y_mean vs run
χ² / ndf 7.985e+05 / 73
p0 −4.327 ± 2.098e−05
−4.28
−4.3
−4.32
−4.34
−4.36
−4.38
pull
Entries 74
Mean −287.9
Std Dev 308.3
200
100
0
−100
−200

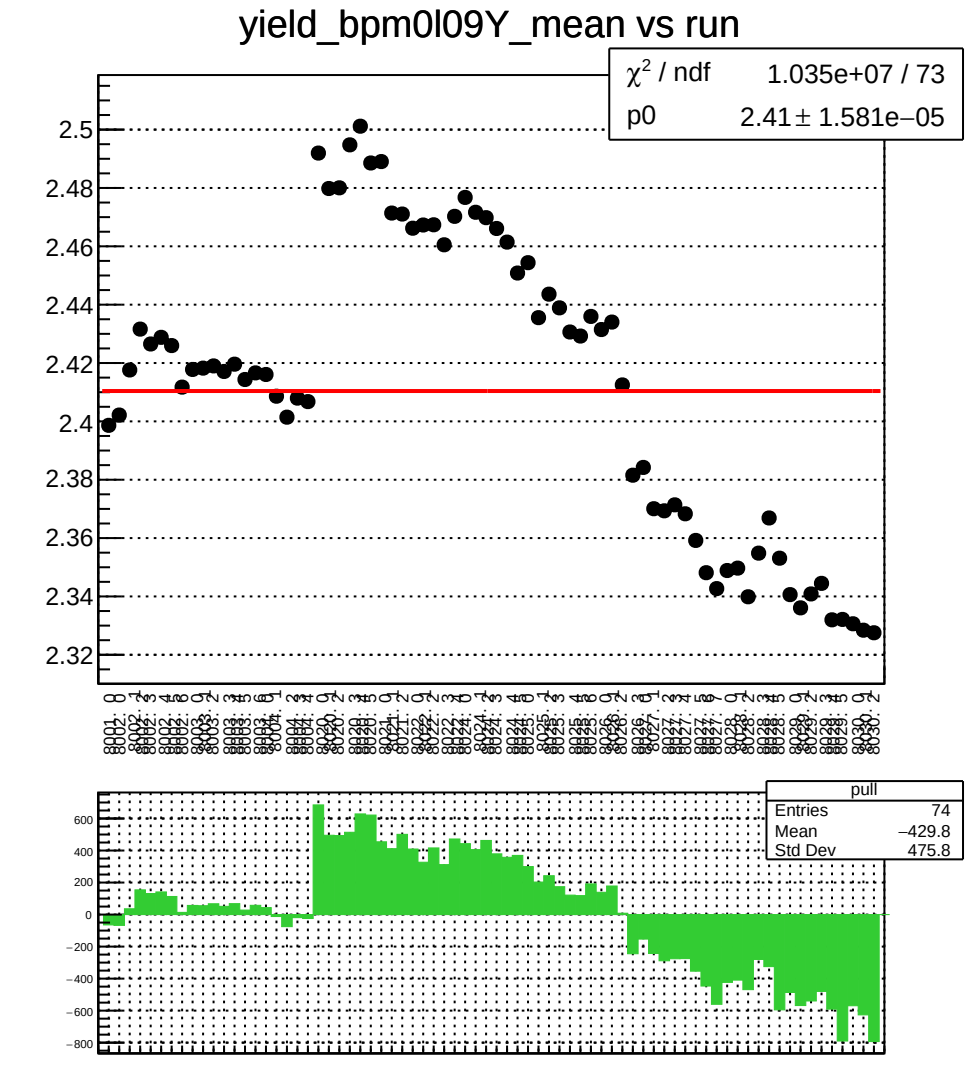

pull1D
Entries 74
Mean 1.99
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

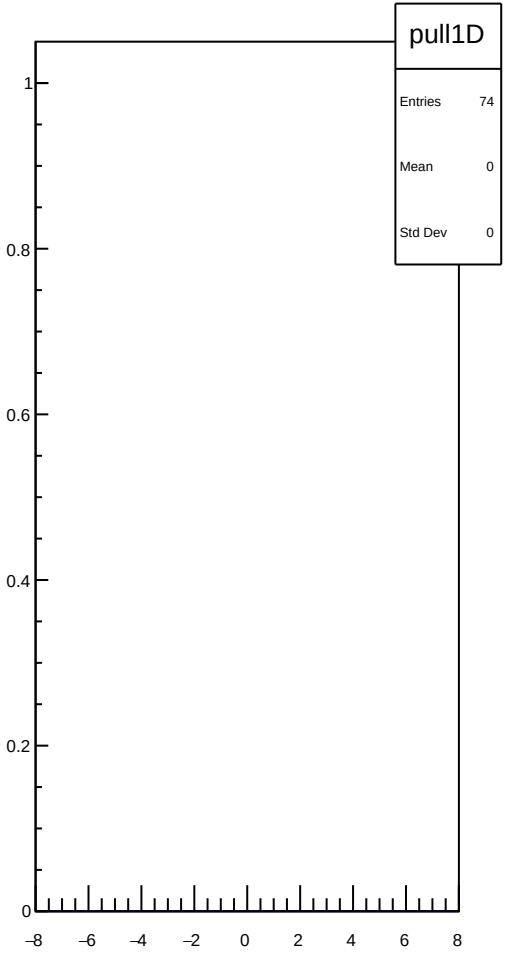

yield_bpm0l08Y_rms vs run
χ² / ndf 4587 / 73
p0 0.01781 ± 1.484e–05
0.024
0.023
0.022
0.021
0.02
0.019
0.018
0.017
0.016

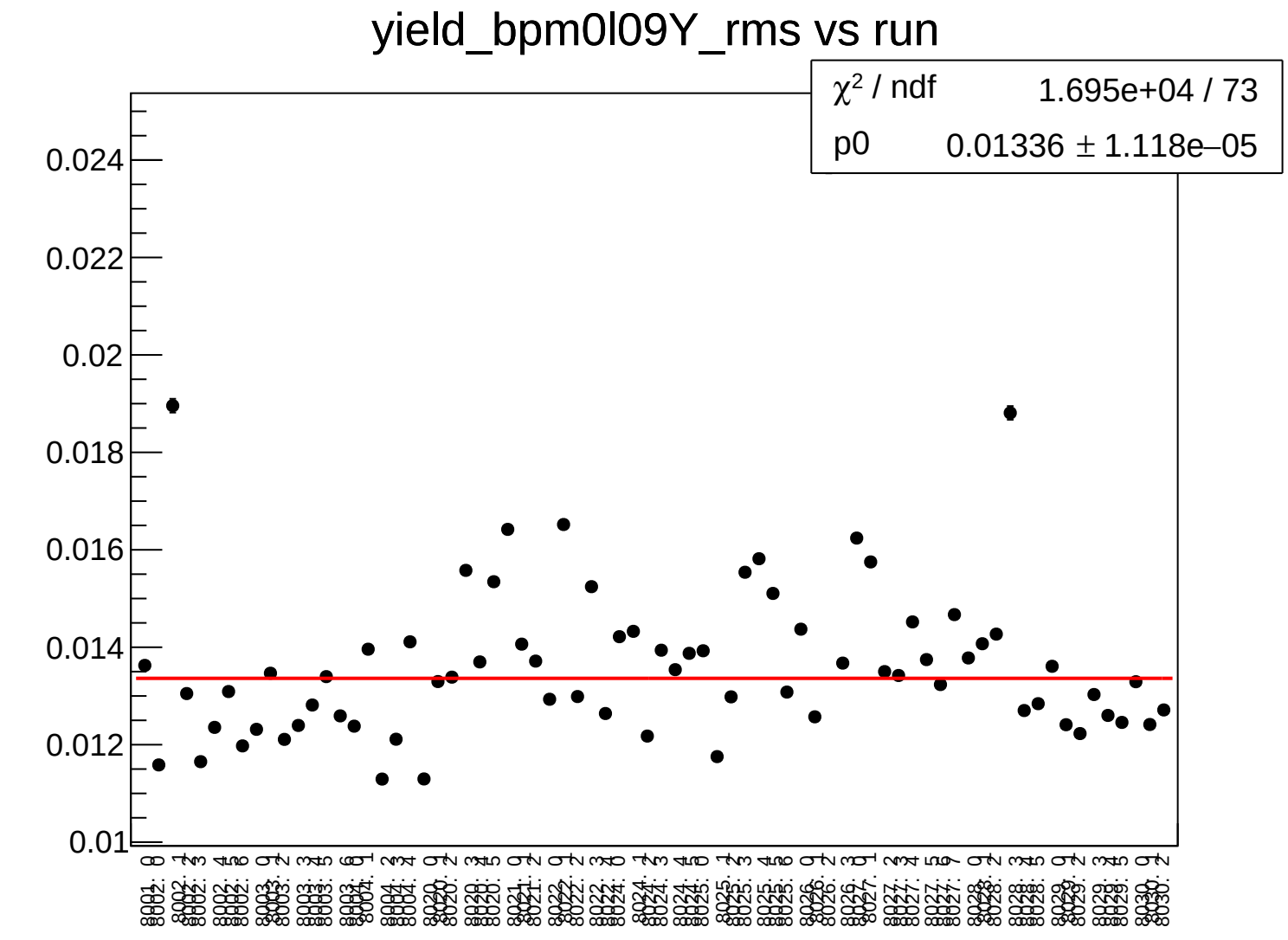

yield_bpm0l09X_mean vs run
χ² / ndf 3.732e+06 / 73
p0 2.505 ± 1.65e−05
2.58
2.56
2.54
2.52
2.5
2.48
2.46
pull
Entries 74
Mean 738
Std Dev 701.8
500
400
300
200
100
0
−100
−200
−300
−400

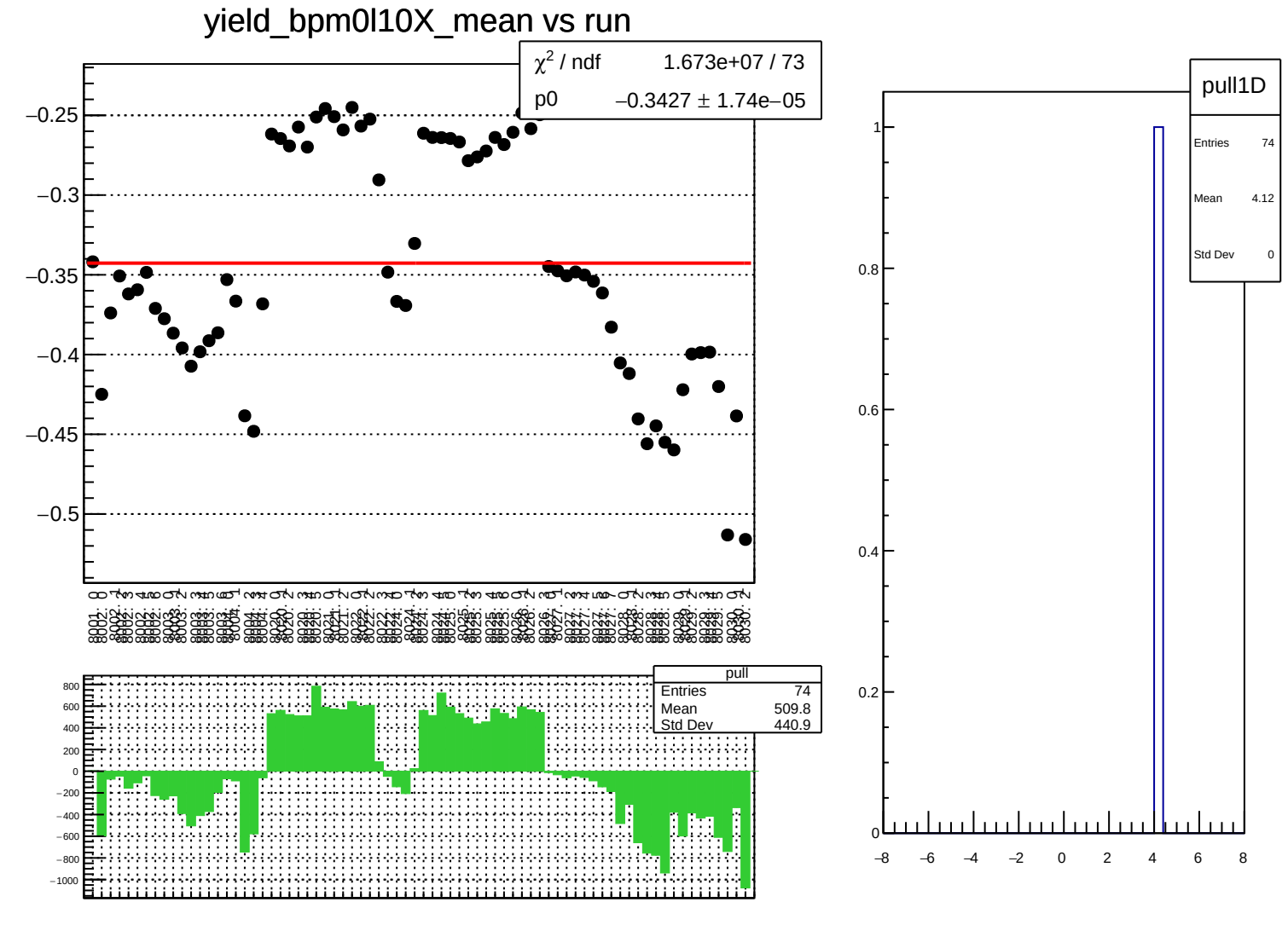

pull1D
Entries 74
Mean −0.2013
Std Dev 4.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

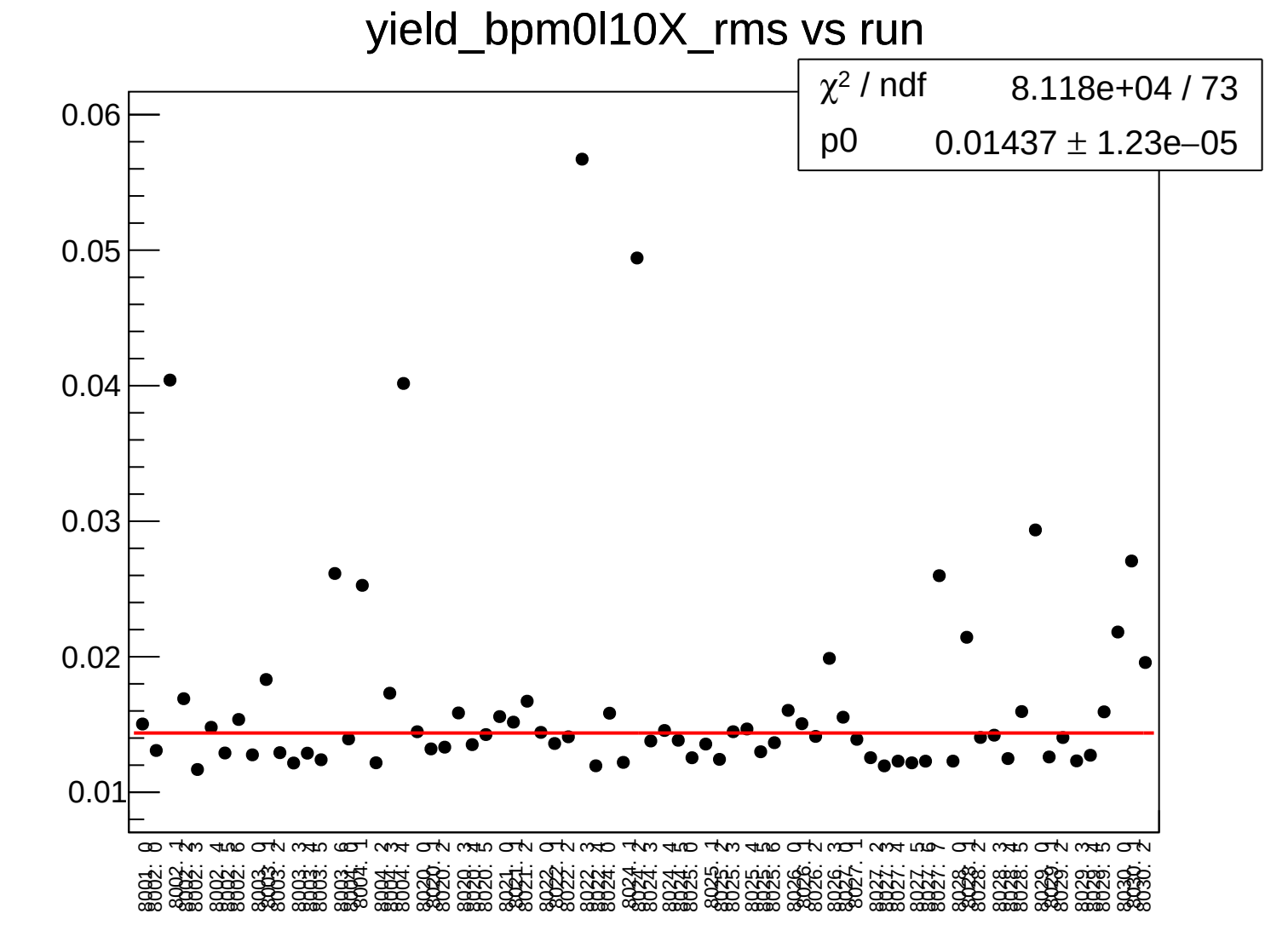

yield_bpm0l09X_rms vs run
χ² / ndf 1.563e+04 / 73
p0 0.01395 ± 1.167e–05
0.03
0.025
0.02
0.015
0.01

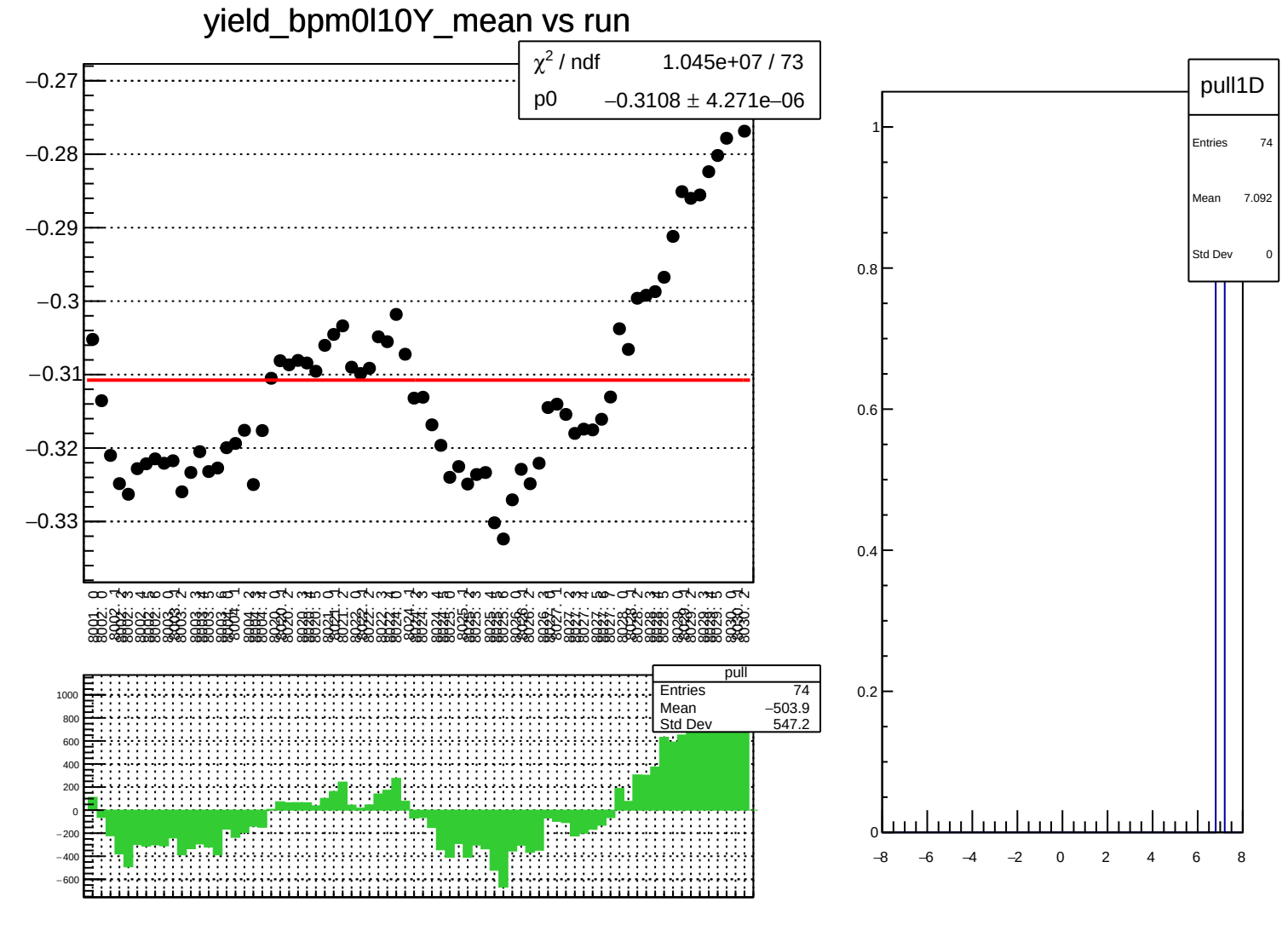

yield_bpm0l09Y_mean vs run
χ² / ndf 1.035e+07 / 73
p0 2.41 ± 1.581e−05
pull
Entries 74
Mean −429.8
Std Dev 475.8

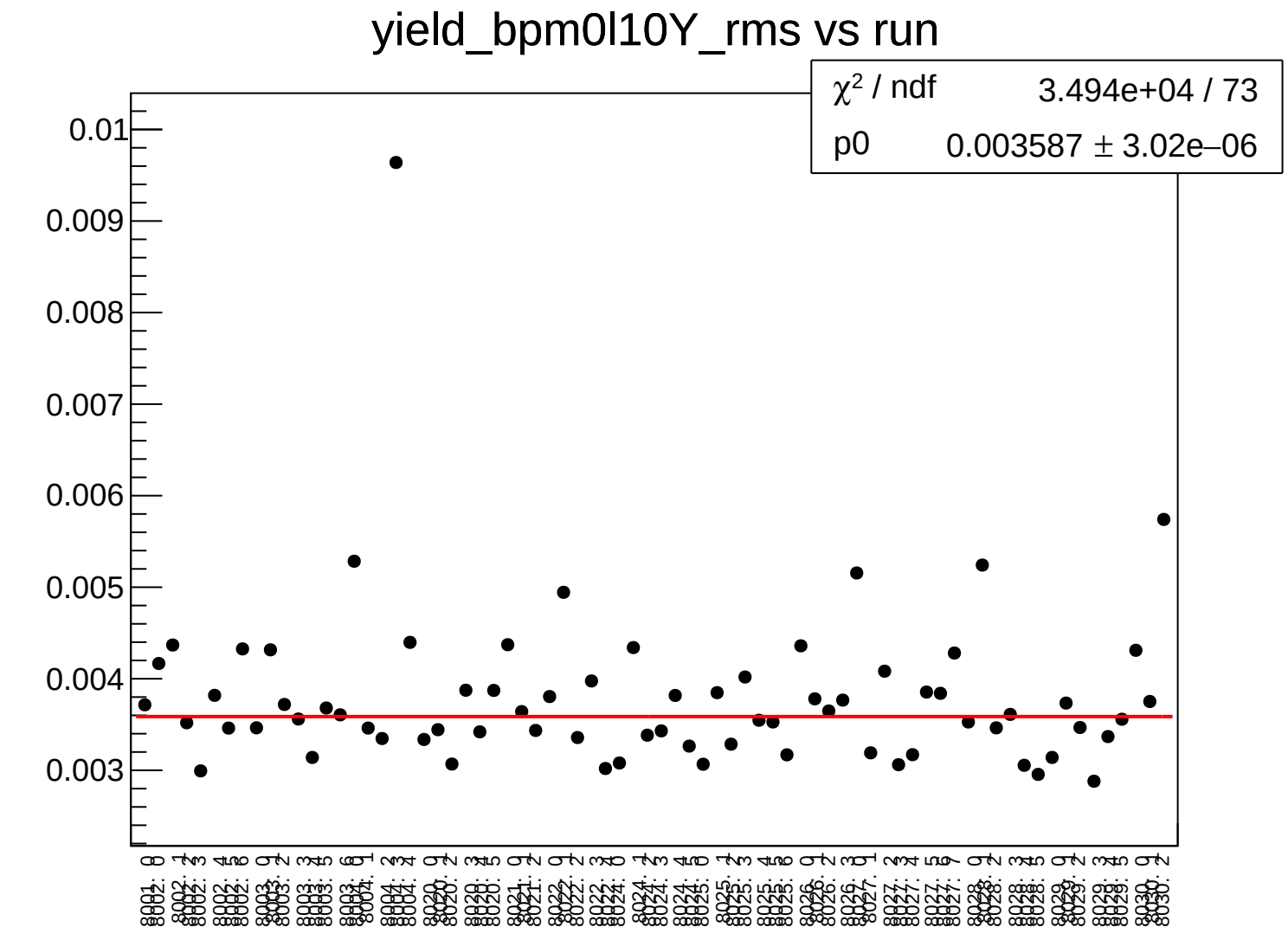

pull1D
Entries 74
Mean 0
Std Dev 0

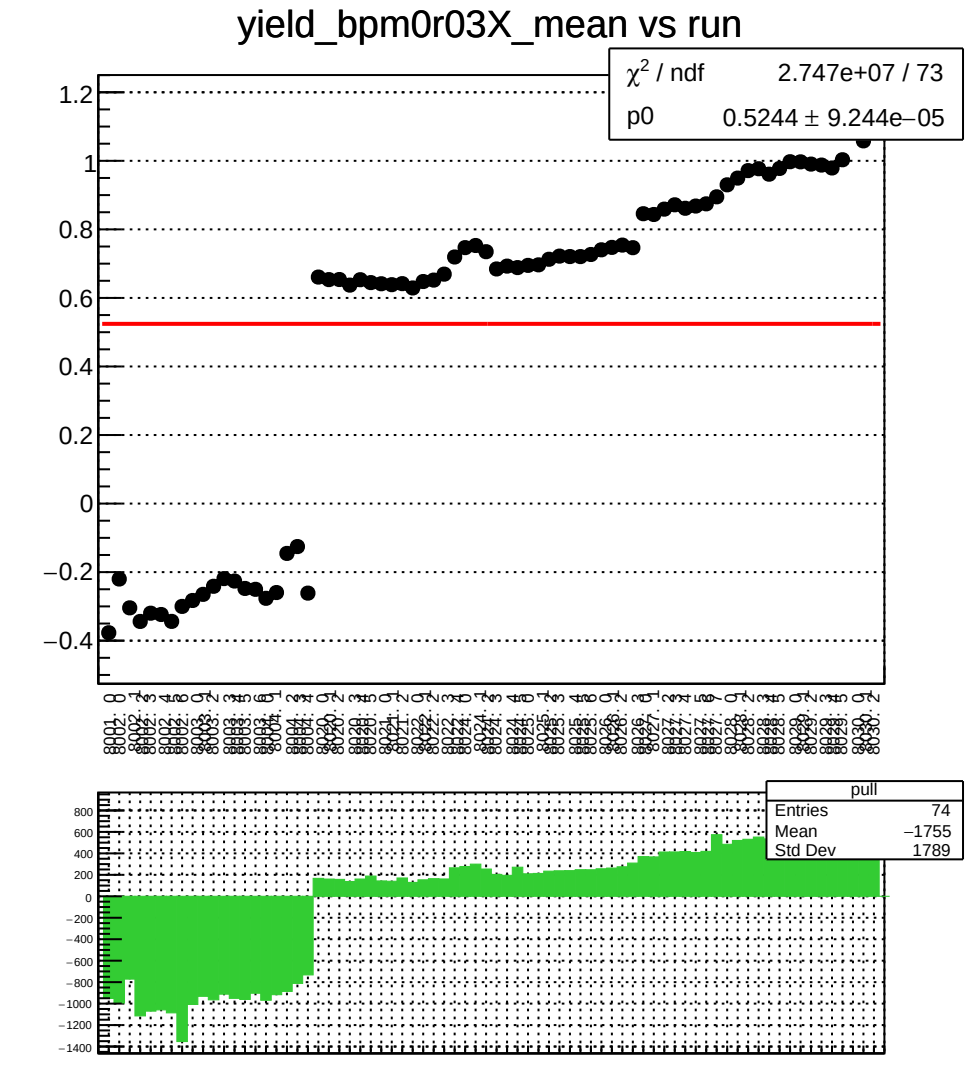

yield_bpm0l09Y_rms vs run
χ² / ndf 1.695e+04 / 73
p0 0.01336 ± 1.118e–05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

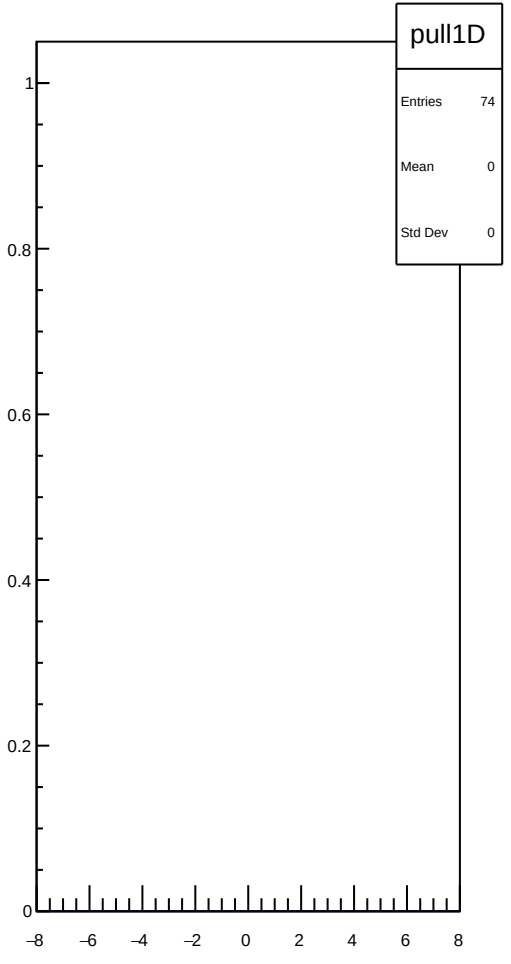

yield_bpm0l10X_mean vs run
χ² / ndf 1.673e+07 / 73
p0 −0.3427 ± 1.74e−05
−0.25
−0.3
−0.35
−0.4
−0.45
−0.5
pull
Entries 74
Mean 509.8
Std Dev 440.9
800
600
400
200
0
−200
−400
−600
−800
−1000
pull1D
Entries 74
Mean 4.12
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

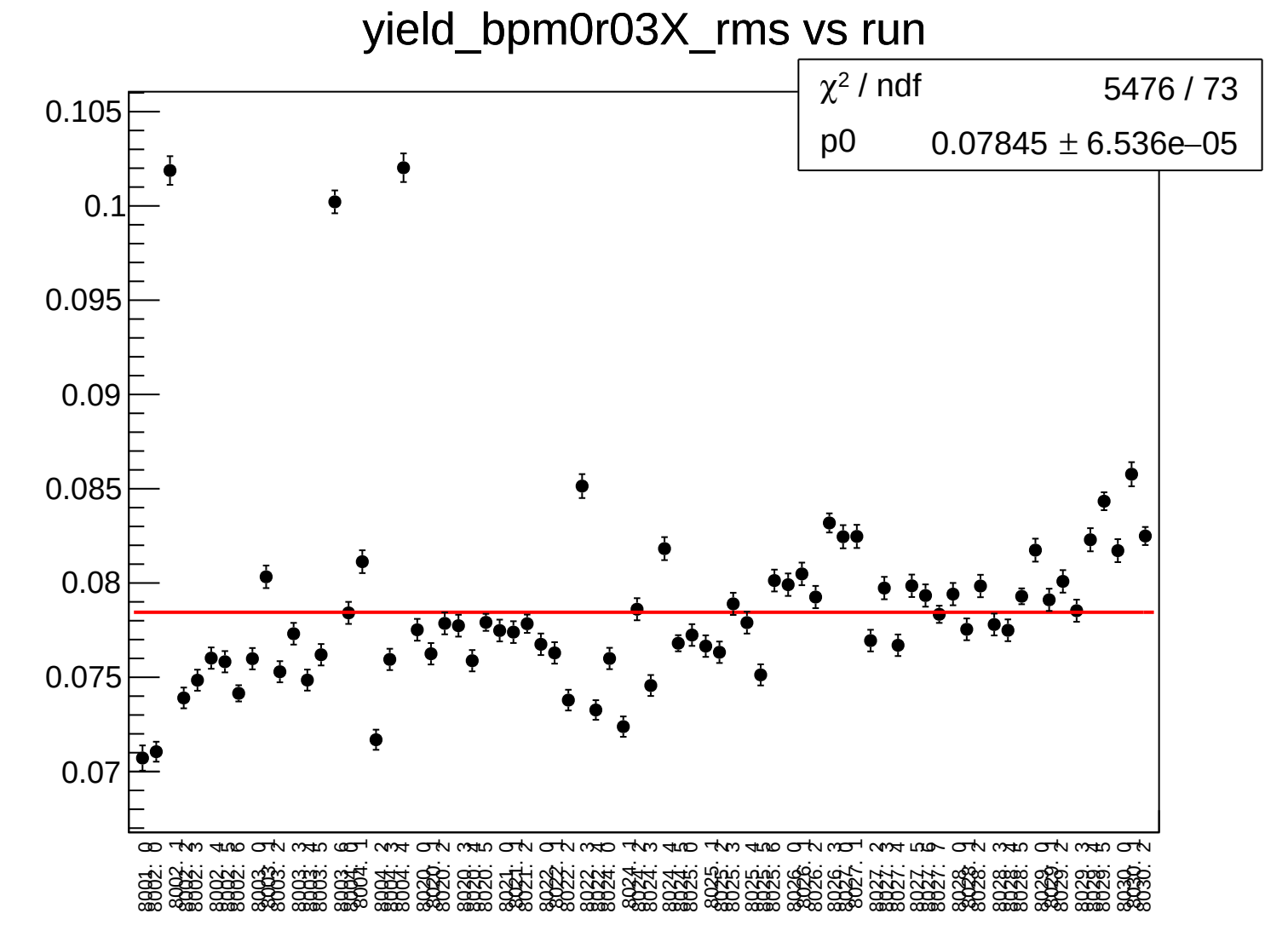

yield_bpm0l10X_rms vs run
χ² / ndf 8.118e+04 / 73
p0 0.01437 ± 1.23e−05
0.06
0.05
0.04
0.03
0.02
0.01

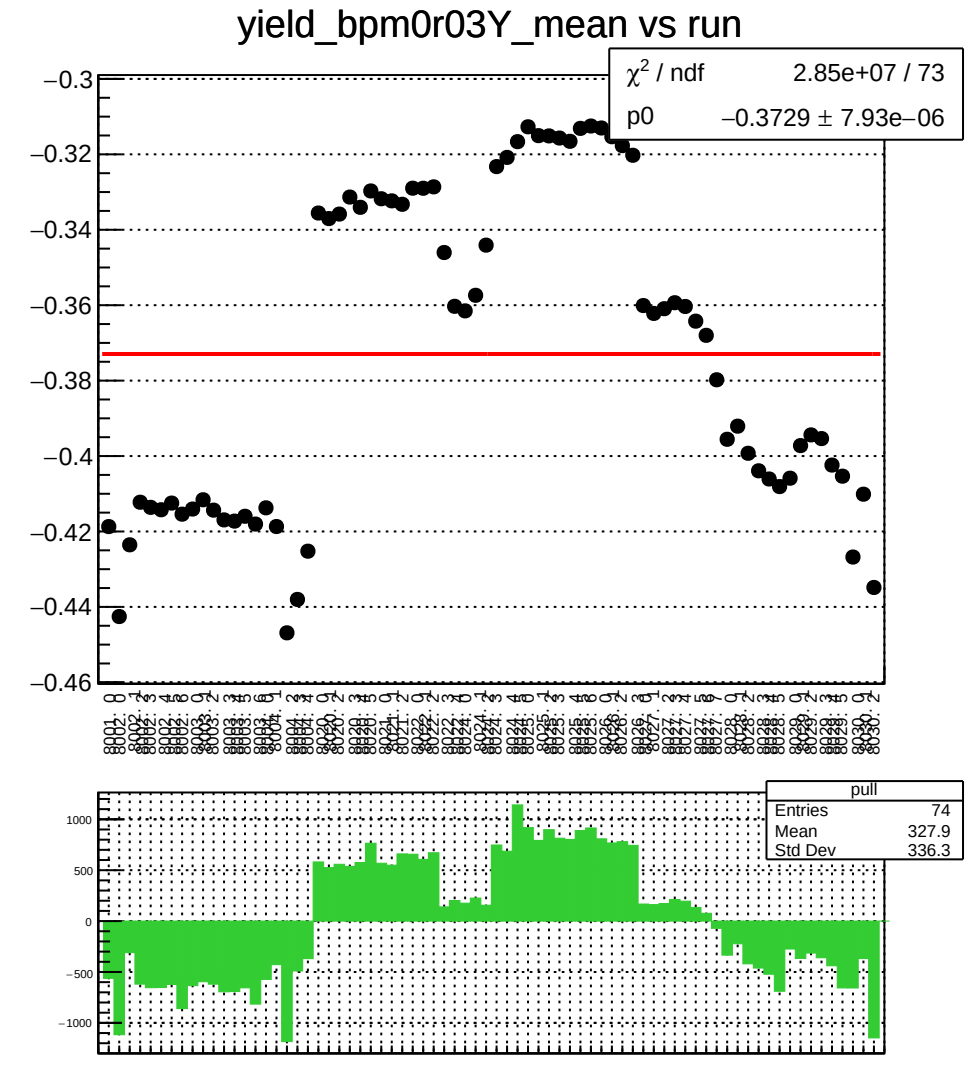

yield_bpm0l10Y_mean vs run
χ² / ndf 1.045e+07 / 73
p0 −0.3108 ± 4.271e−06
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
−0.33
pull
Entries 74
Mean −503.9
Std Dev 547.2
1000
800
600
400
200
0
−200
−400
−600
pull1D
Entries 74
Mean 7.092
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

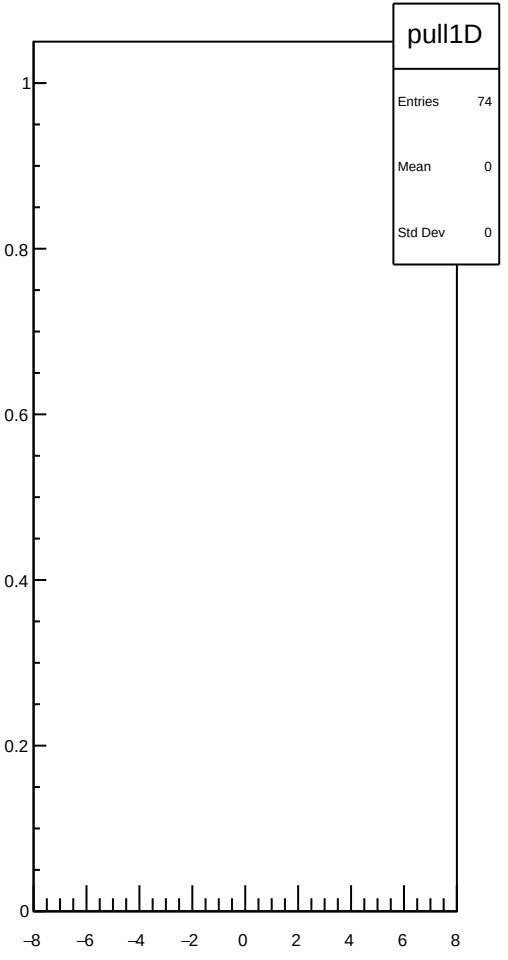

yield_bpm0l10Y_rms vs run
χ² / ndf 3.494e+04 / 73
p0 0.003587 ± 3.02e−06
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003

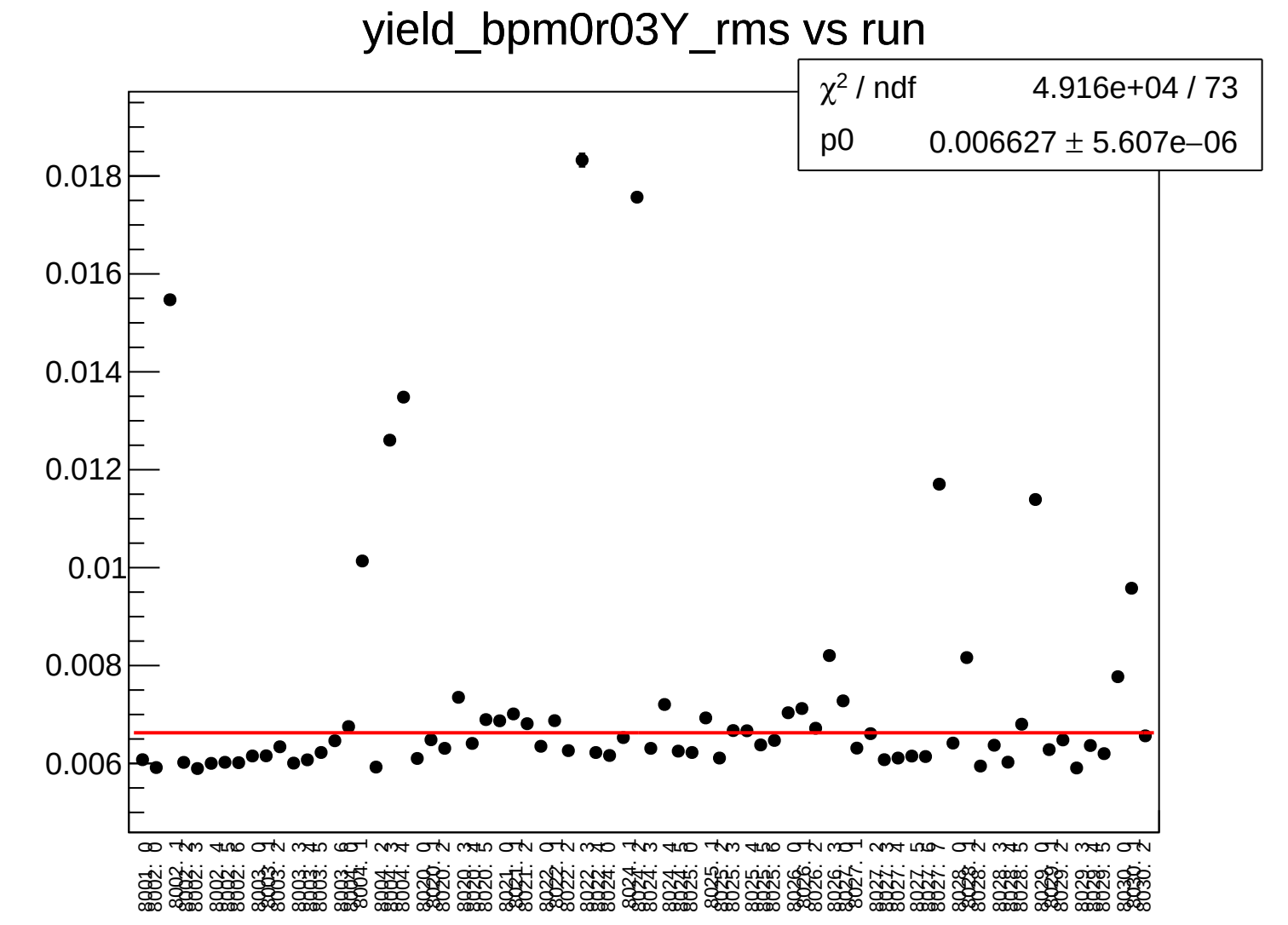

yield_bpm0r03X_mean vs run
χ² / ndf 2.747e+07 / 73
p0 0.5244 ± 9.244e−05
pull
Entries 74
Mean −1755
Std Dev 1789

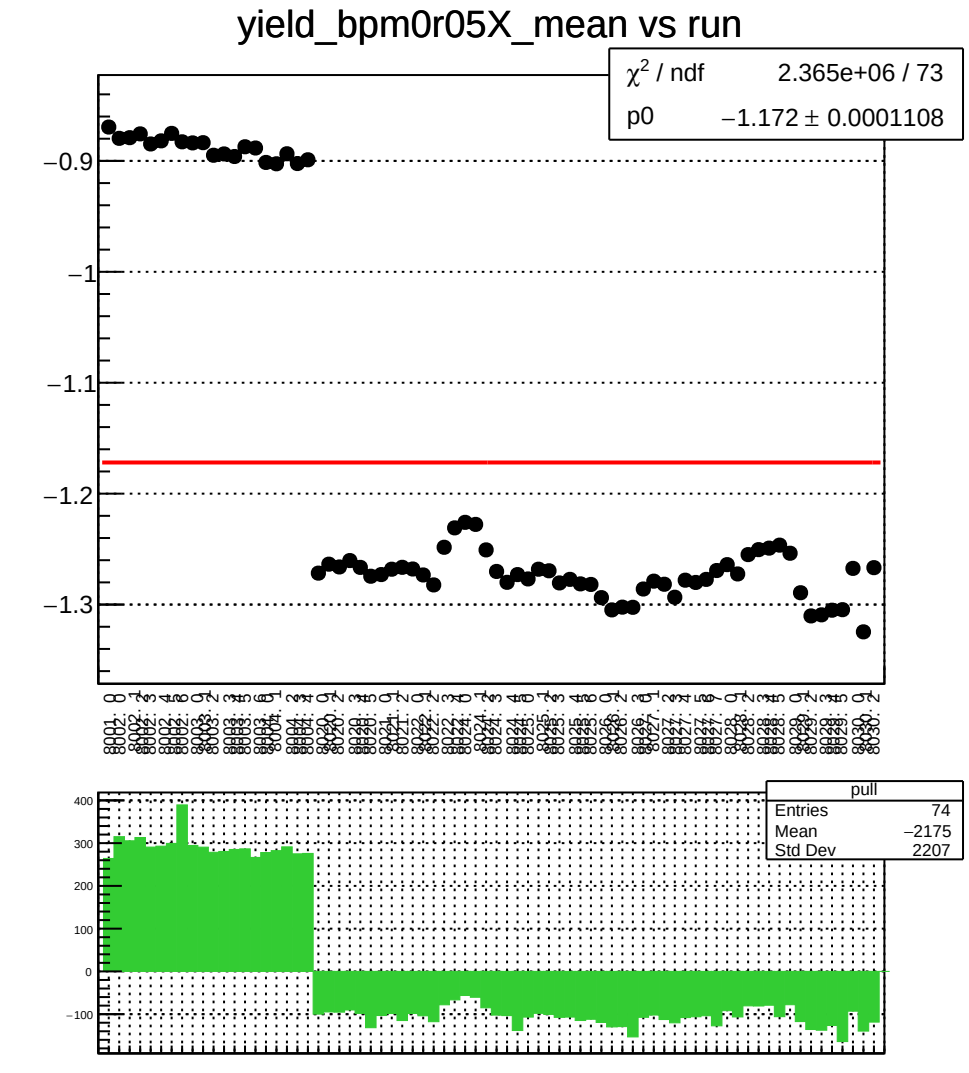

pull1D
Entries 74
Mean 0
Std Dev 0

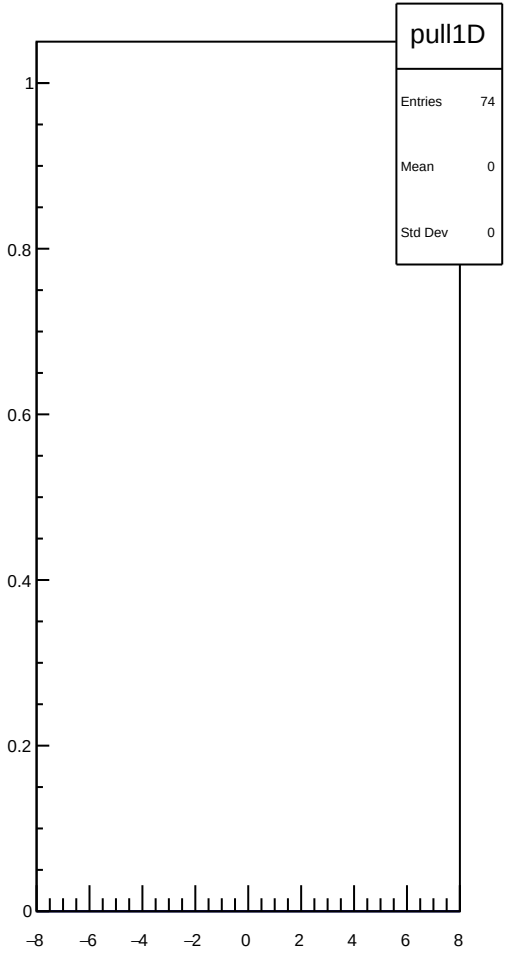

yield_bpm0r03X_rms vs run
χ² / ndf 5476 / 73
p0 0.07845 ± 6.536e–05
0.105
0.1
0.095
0.09
0.085
0.08
0.075
0.07

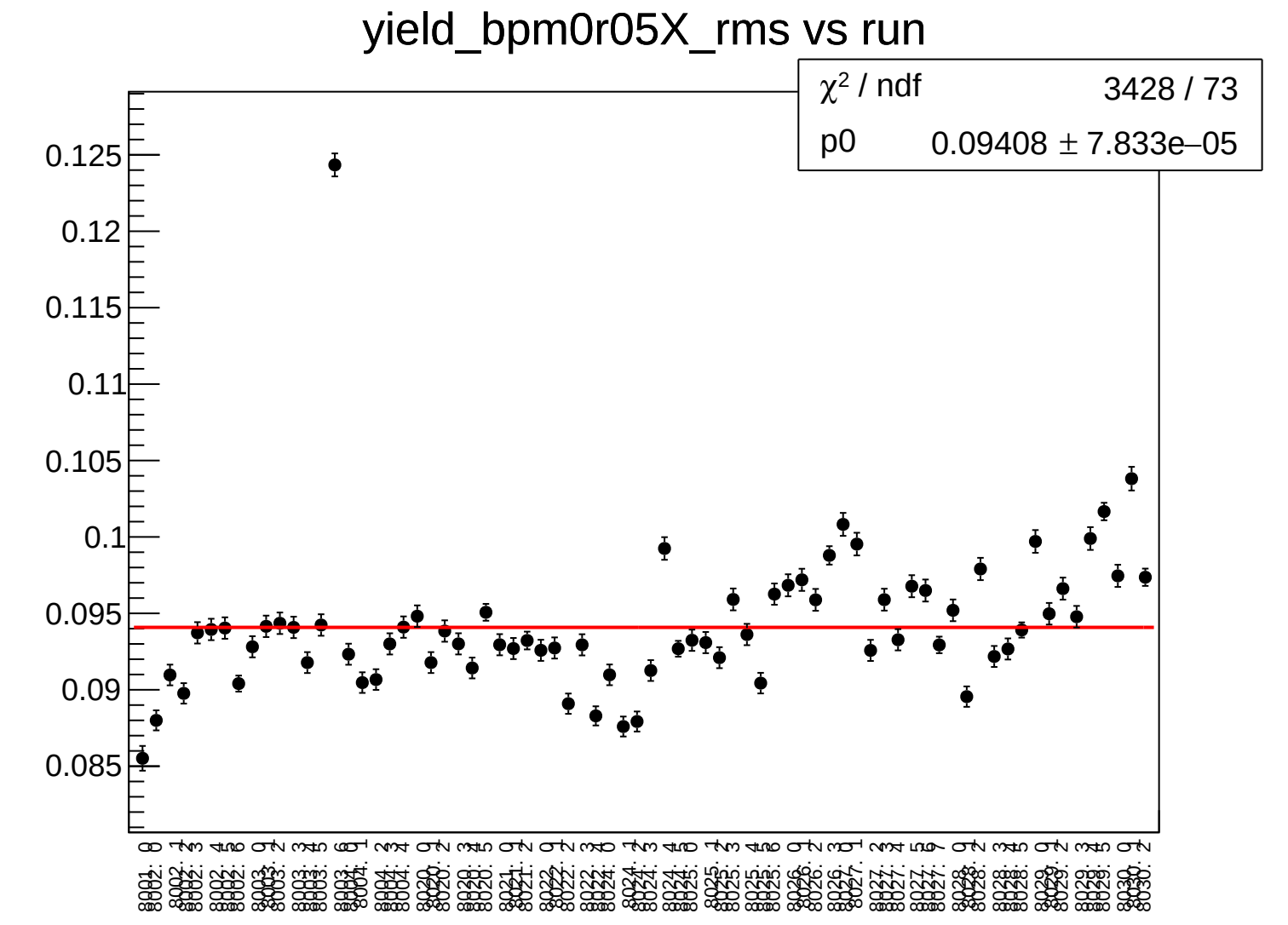

yield_bpm0r03Y_mean vs run
χ² / ndf 2.85e+07 / 73
p0 −0.3729 ± 7.93e−06
pull
Entries 74
Mean 327.9
Std Dev 336.3

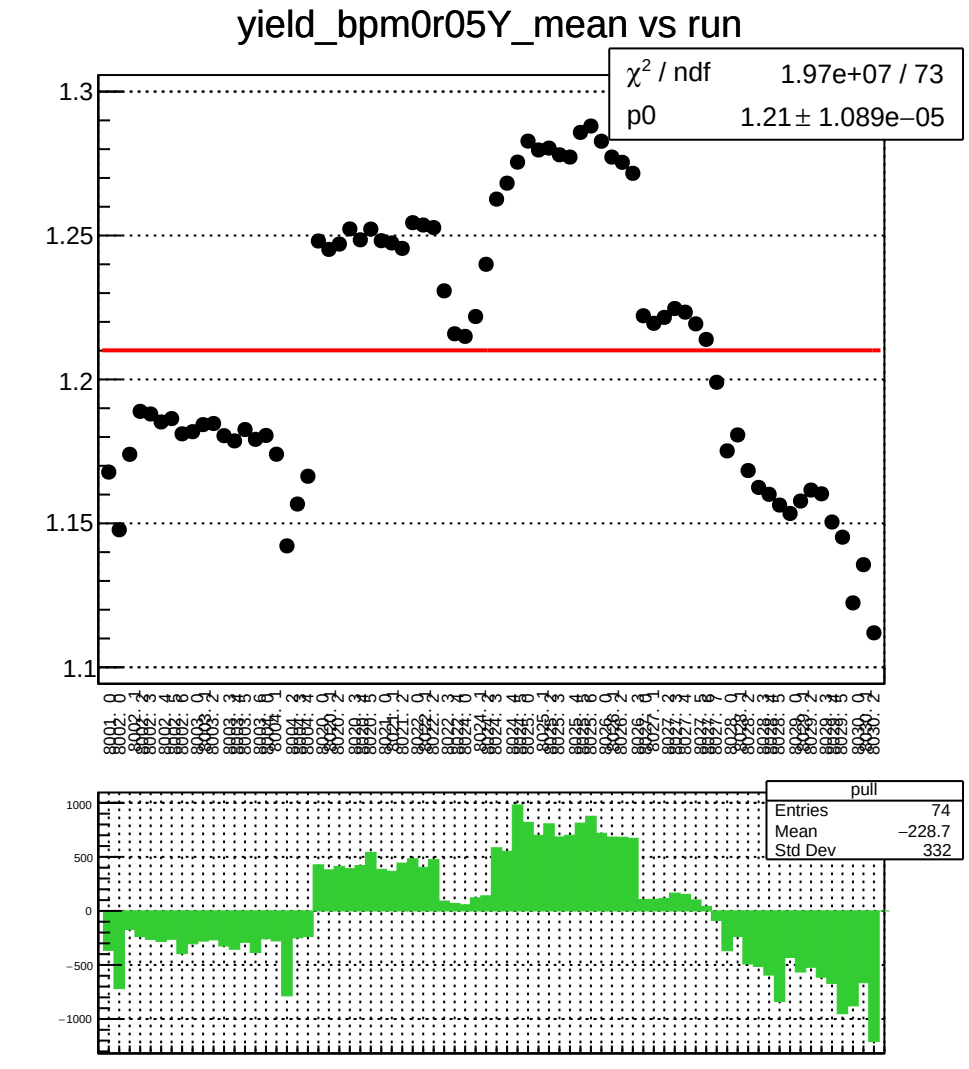

pull1D
Entries 74
Mean 0
Std Dev 0

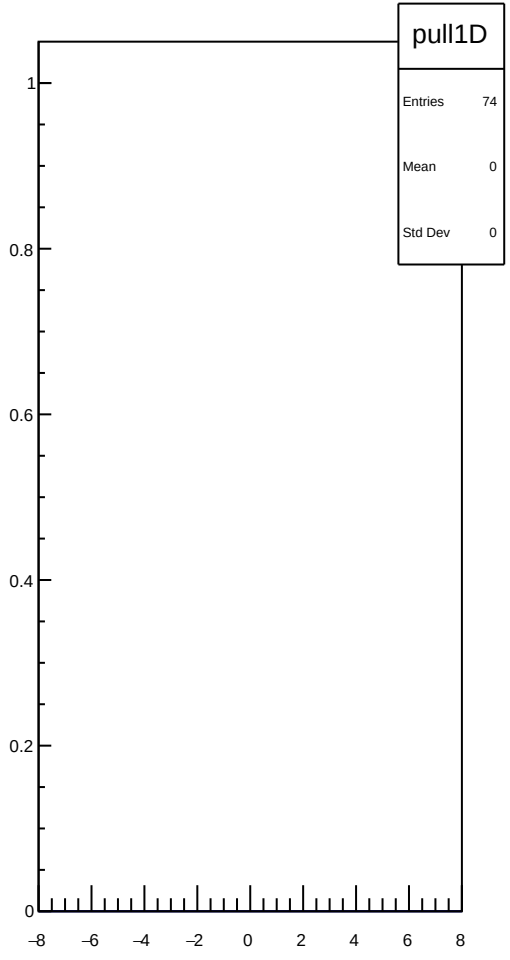

yield_bpm0r03Y_rms vs run
χ² / ndf 4.916e+04 / 73
p0 0.006627 ± 5.607e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006

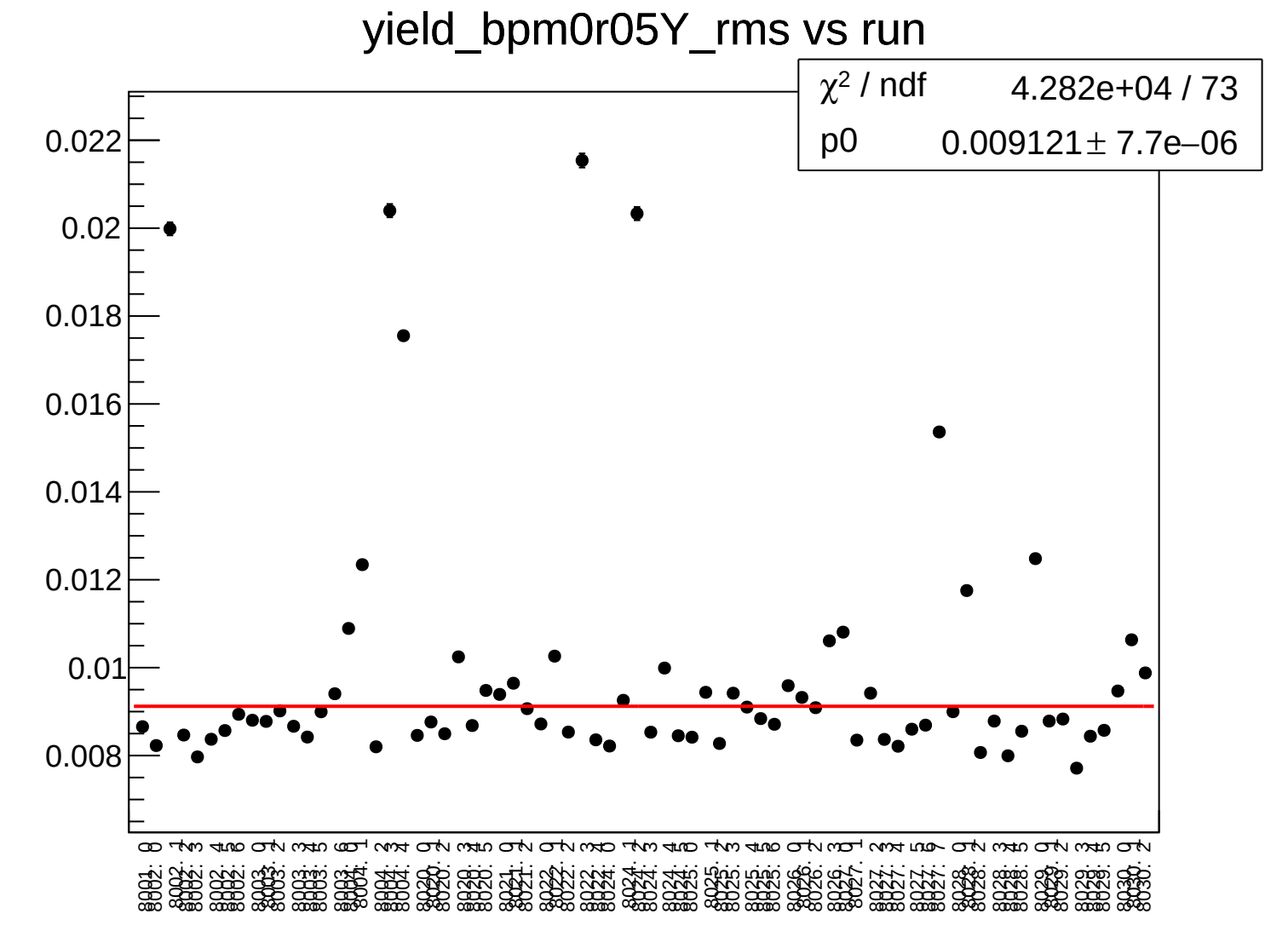

yield_bpm0r05X_mean vs run
χ² / ndf 2.365e+06 / 73
p0 −1.172 ± 0.0001108
−0.9
−1
−1.1
−1.2
−1.3
pull
Entries 74
Mean −2175
Std Dev 2207
400
300
200
100
0
−100

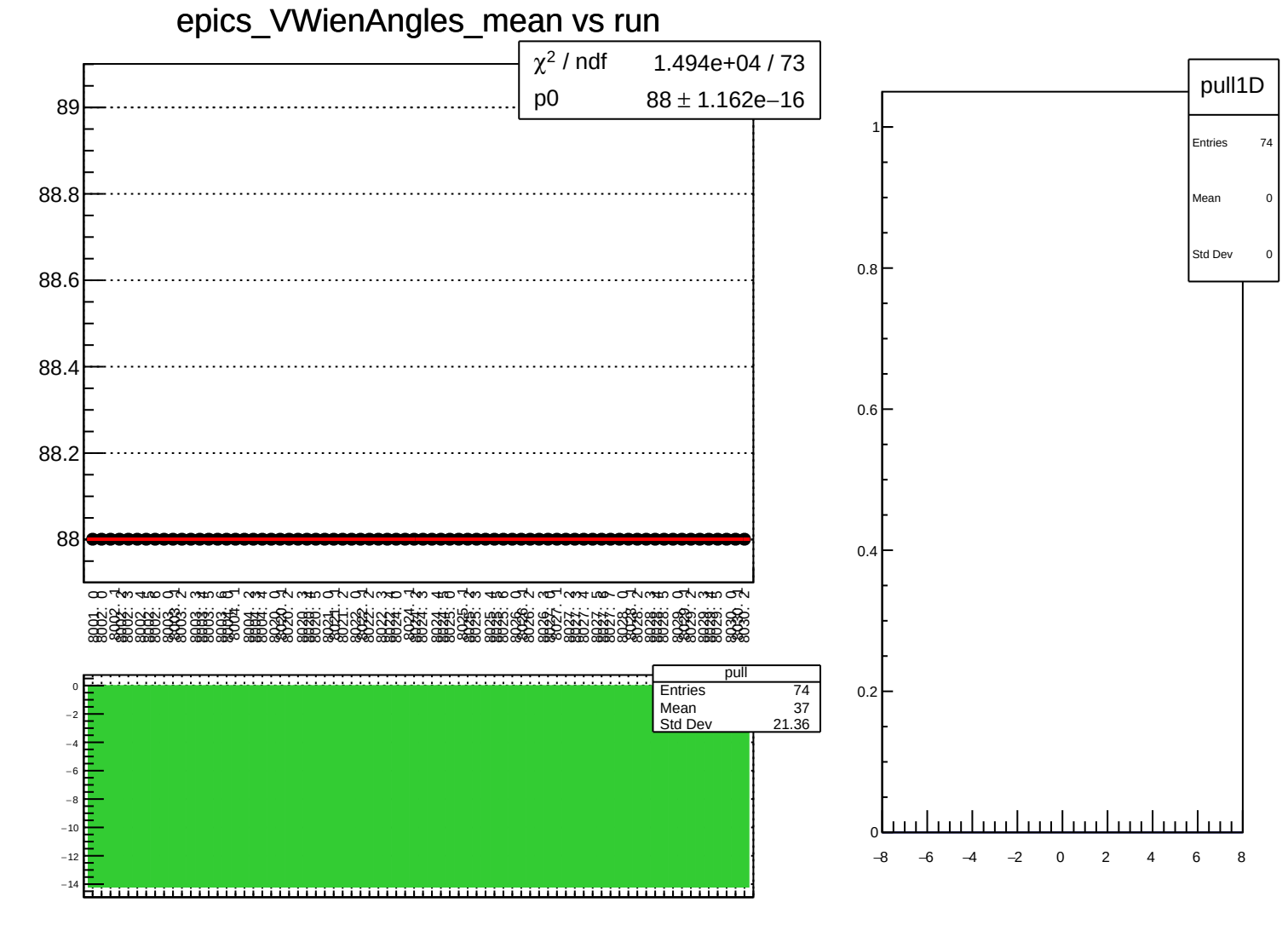

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

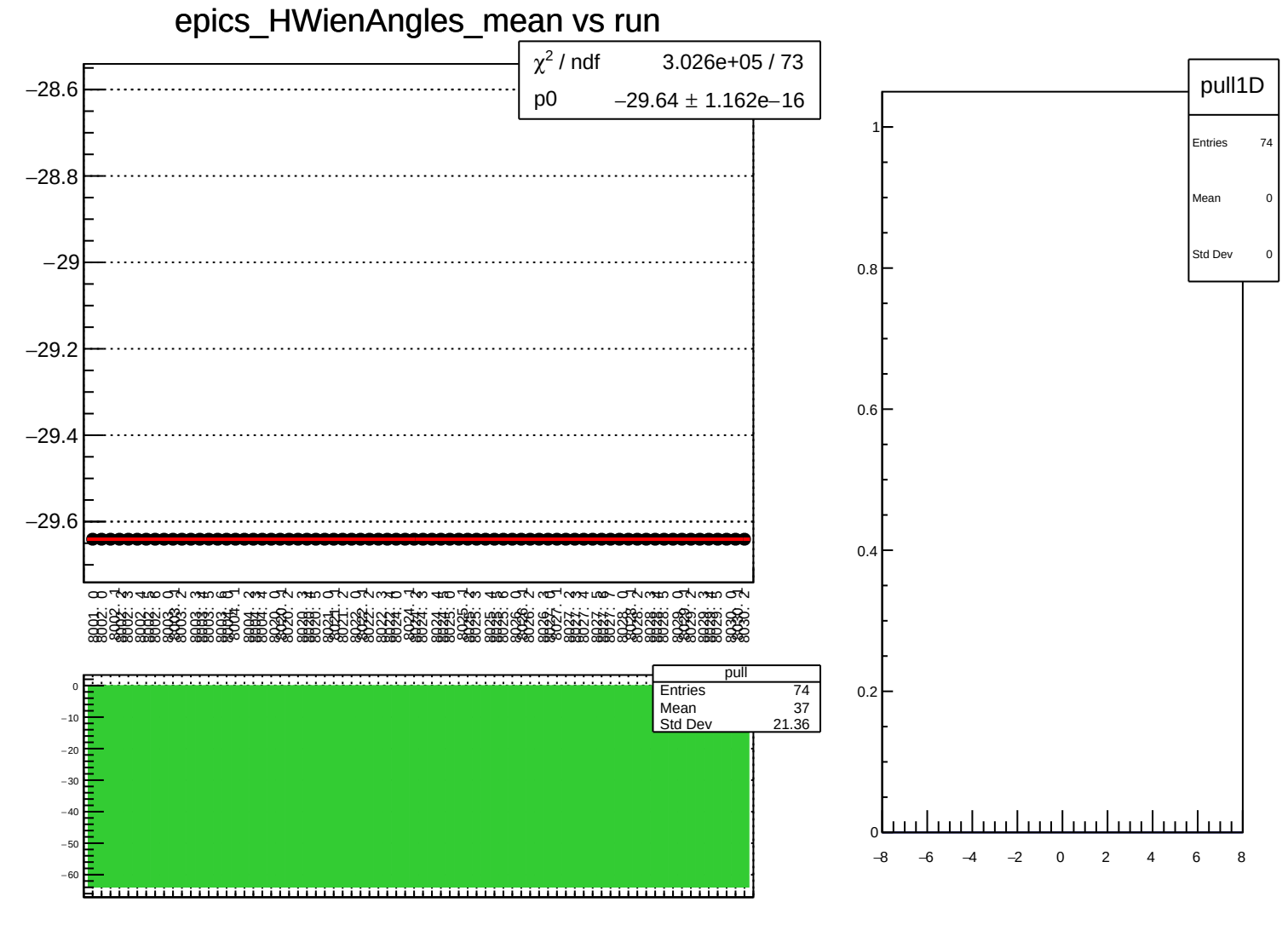

yield_bpm0r05X_rms vs run
χ² / ndf 3428 / 73
p0 0.09408 ± 7.833e–05
0.125
0.12
0.115
0.11
0.105
0.1
0.095
0.09
0.085

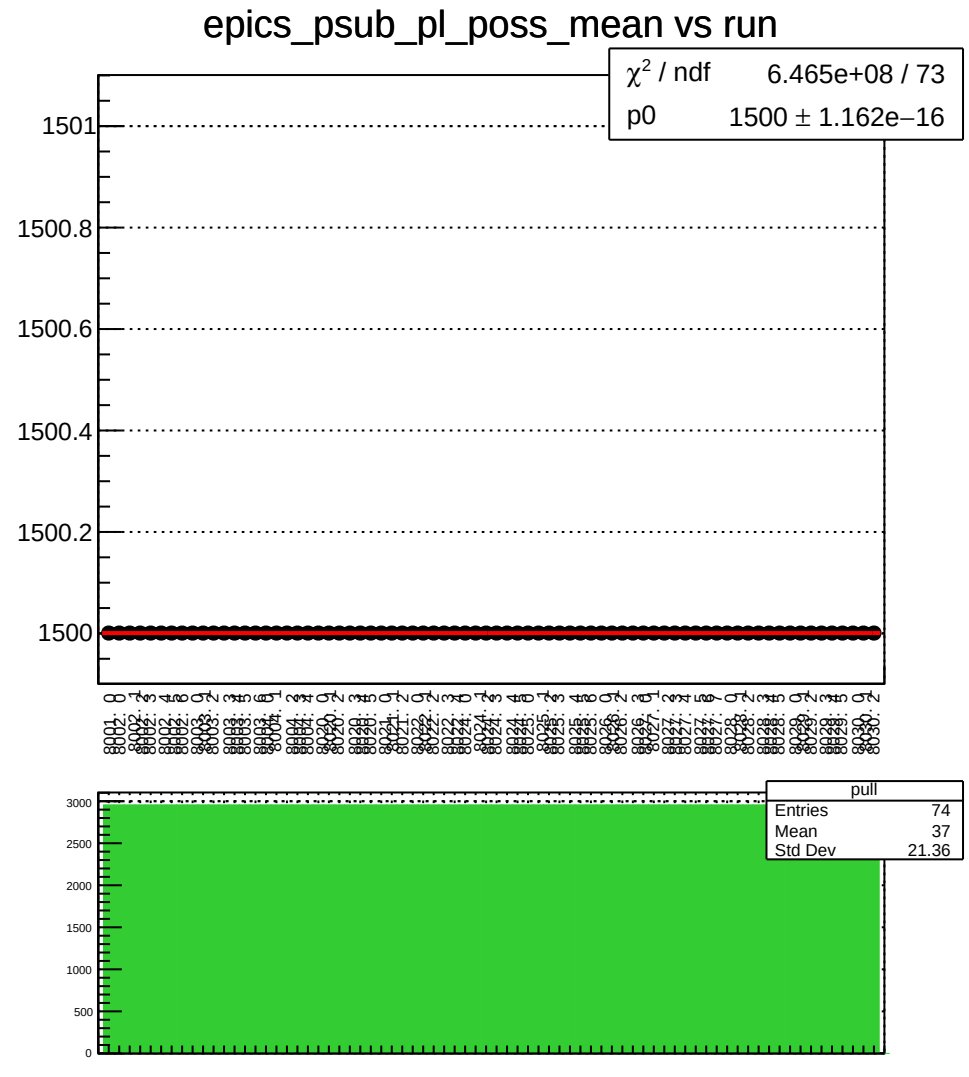

yield_bpm0r05Y_mean vs run
χ² / ndf 1.97e+07 / 73
p0 1.21 ± 1.089e−05
1.3
1.25
1.2
1.15
1.1
pull
Entries 74
Mean −228.7
Std Dev 332
1000
500
0
−500
−1000

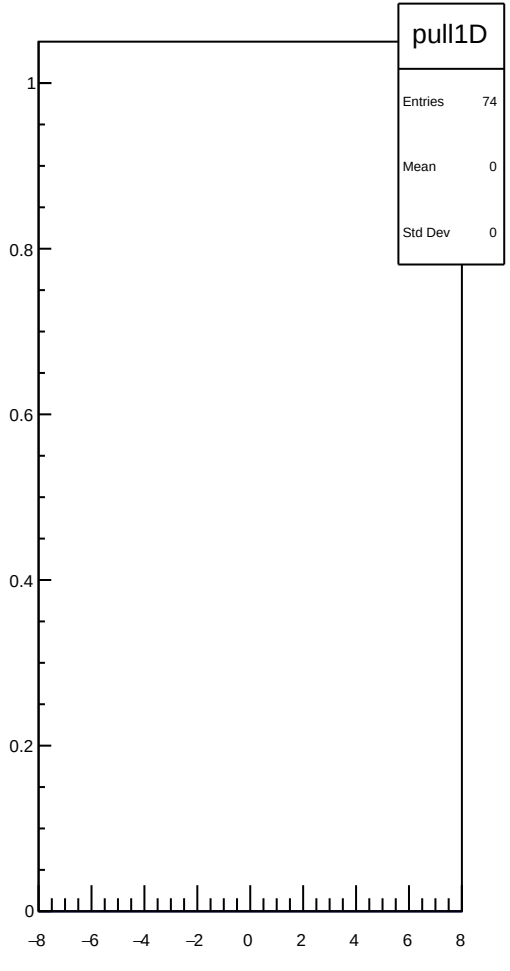

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

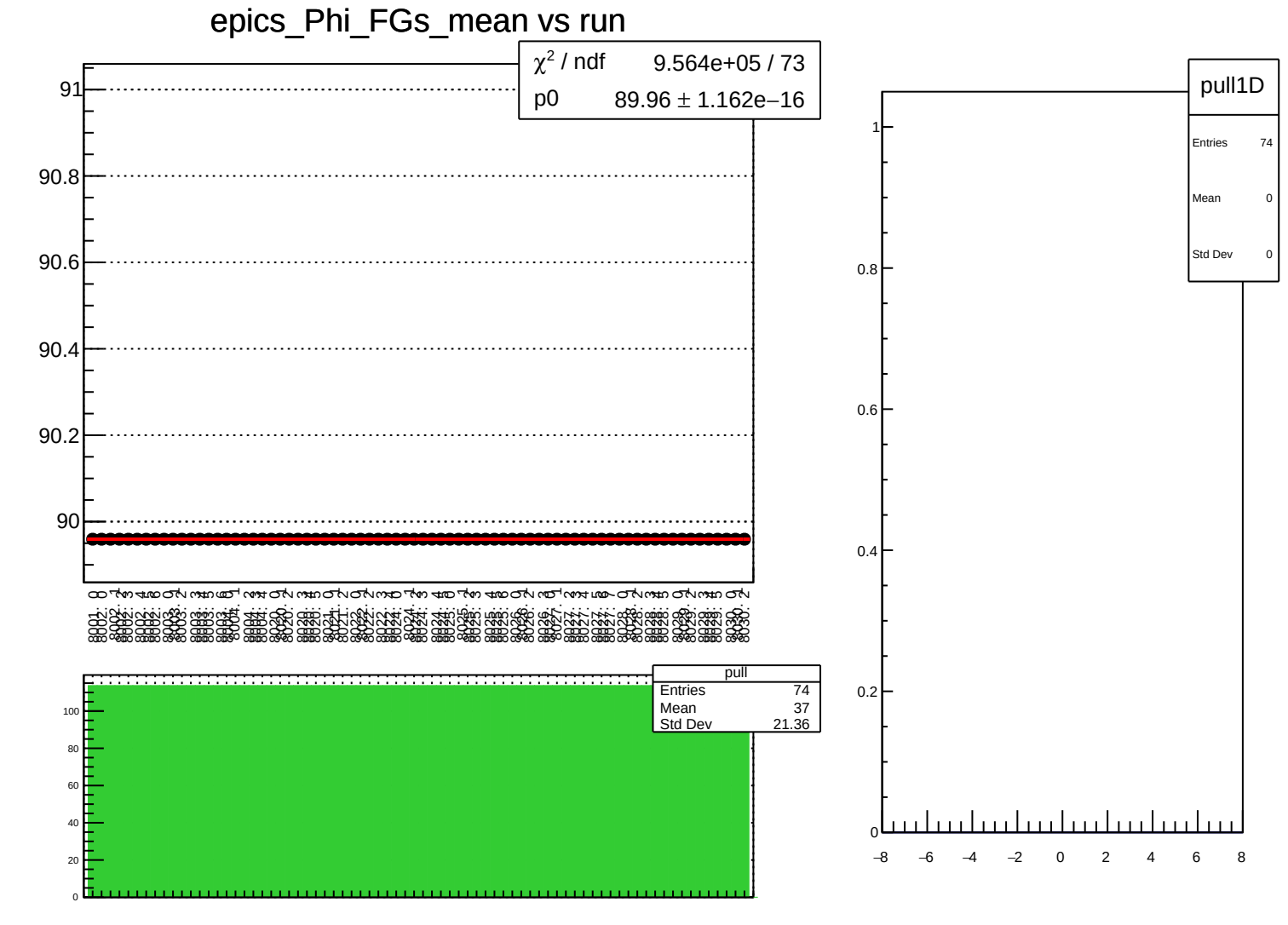

yield_bpm0r05Y_rms vs run
χ² / ndf 4.282e+04 / 73
p0 0.009121 ± 7.7e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

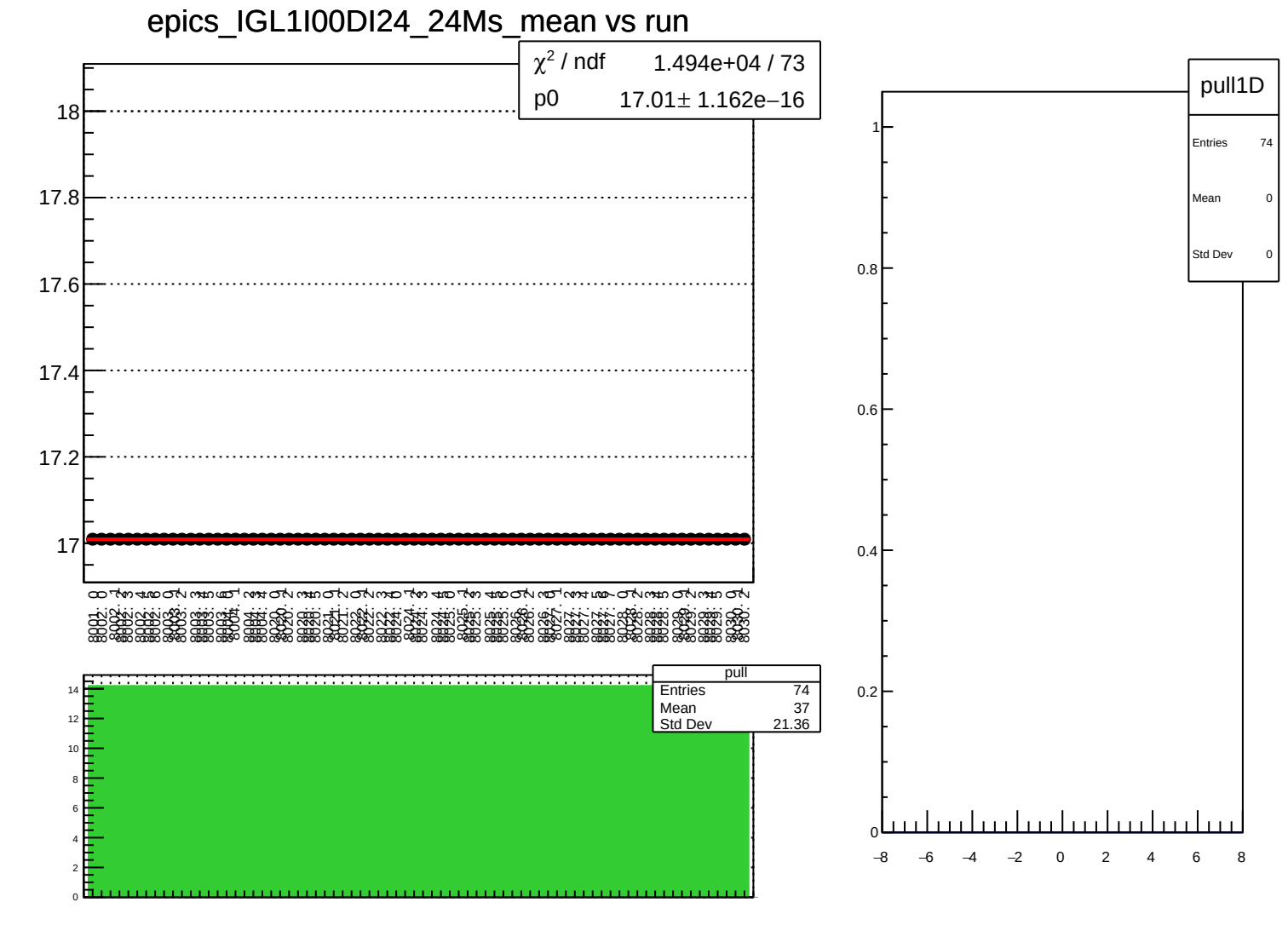

epics_VWienAngles_mean vs run
χ² / ndf 1.494e+04 / 73
p0 88 ± 1.162e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

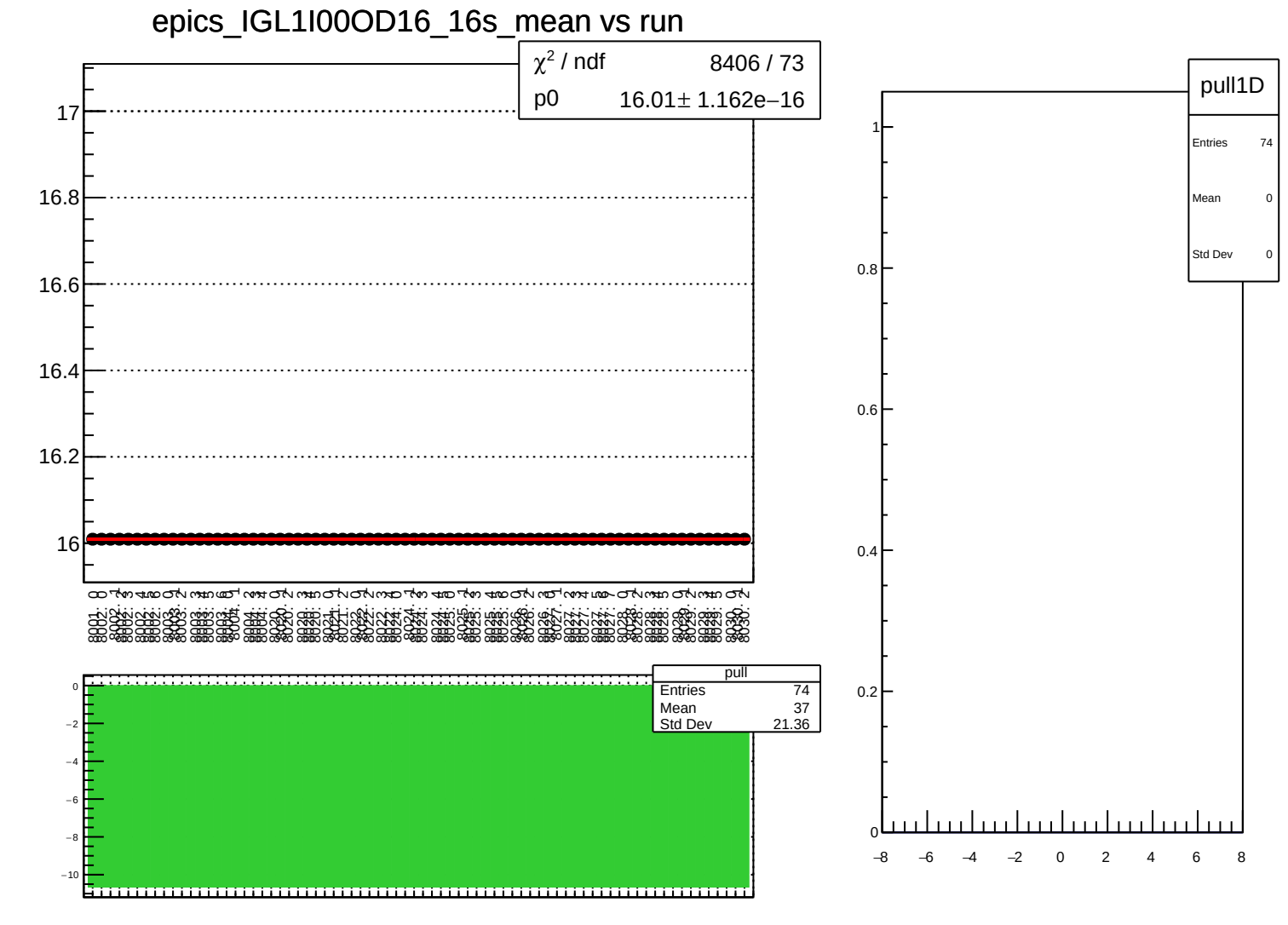

epics_HWienAngles_mean vs run
χ² / ndf 3.026e+05 / 73
p0 −29.64 ± 1.162e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 74
Mean 37
Std Dev 21.36
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

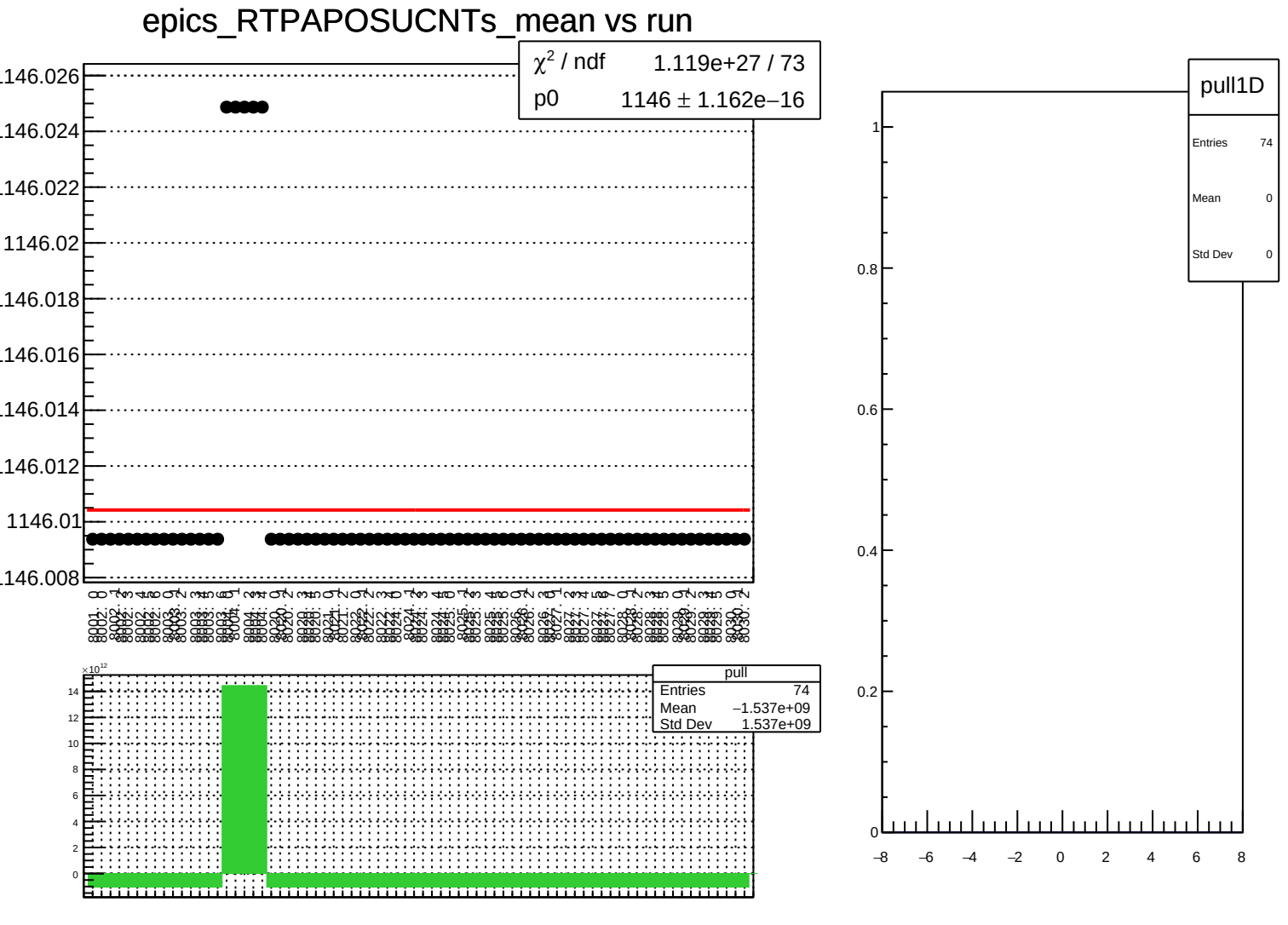

epics_psub_pl_poss_mean vs run
χ² / ndf 6.465e+08 / 73
p0 1500 ± 1.162e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 74
Mean 37
Std Dev 21.36
3000
2500
2000
1500
1000
500
0

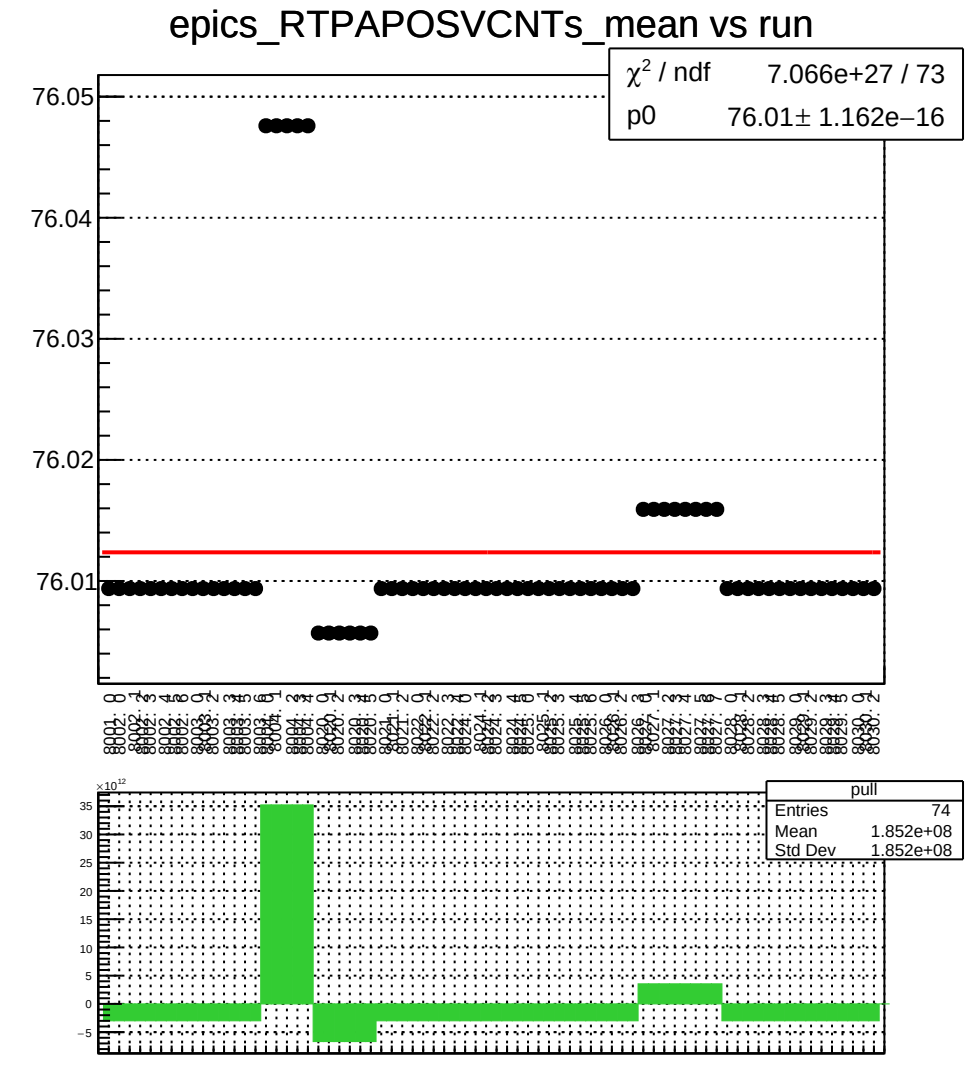

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

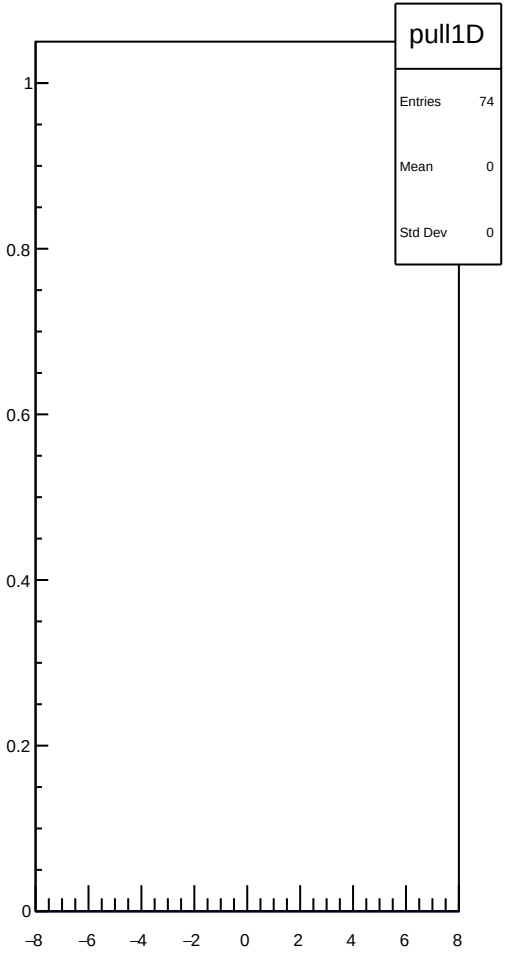

epics_Phi_FGs_mean vs run
χ² / ndf 9.564e+05 / 73
p0 89.96 ± 1.162e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 74
Mean 37
Std Dev 21.36
100
80
60
40
20
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.494e+04 / 73
p0 17.01± 1.162e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 74
Mean 37
Std Dev 21.36
14
12
10
8
6
4
2
0
pull1D
Entries 74
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 8406 / 73
p0 16.01± 1.162e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
pull1D
Entries 74
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 1.119e+27 / 73
p0 1146 ± 1.162e−16
1146.026
1146.024
1146.022
1146.02
1146.018
1146.016
1146.014
1146.012
1146.01
1146.008
pull
Entries 74
Mean −1.537e+09
Std Dev 1.537e+09
×10¹²
pull1D
Entries 74
Mean 0
Std Dev 0


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 7.066e+27 / 73
p0 76.01± 1.162e−16
76.05
76.04
76.03
76.02
76.01
pull
Entries 74
Mean 1.852e+08
Std Dev 1.852e+08
×10¹²
35
30
25
20
15
10
5
0
−5


pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8