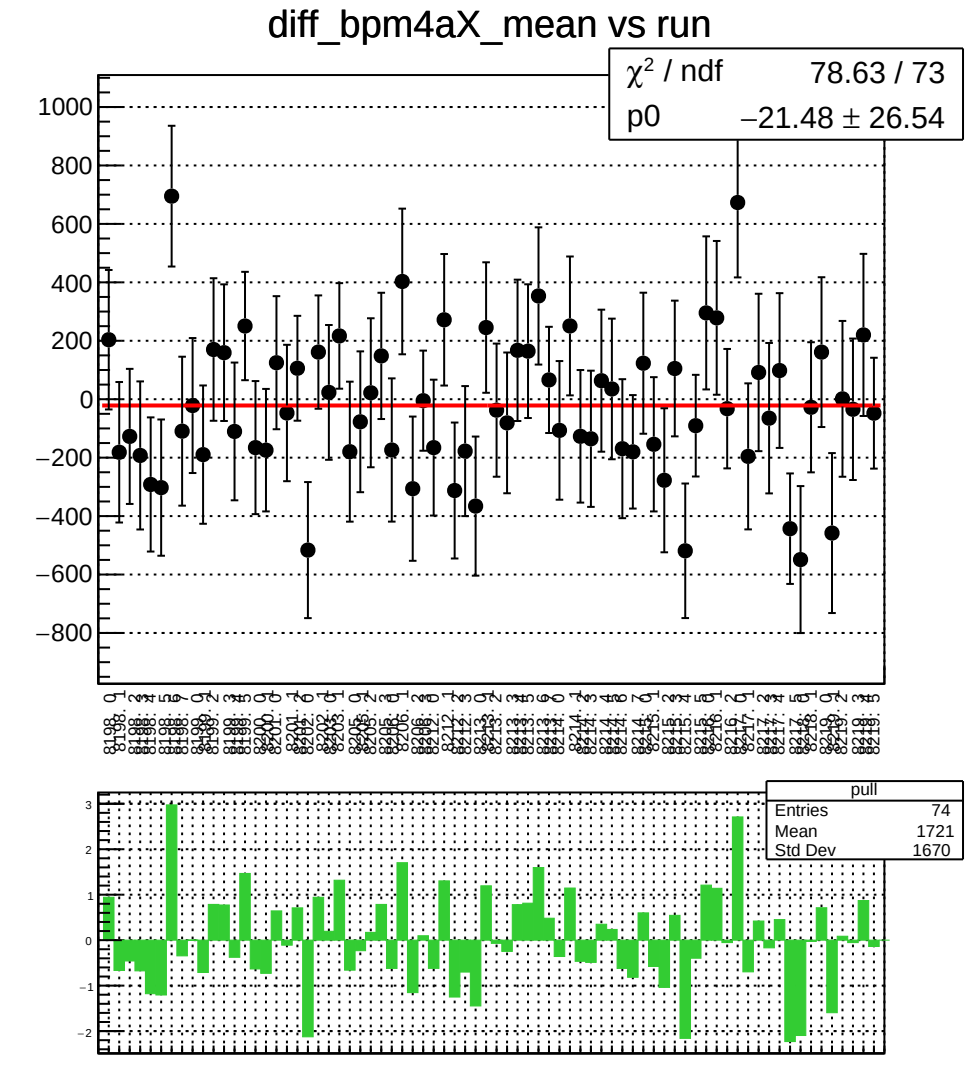
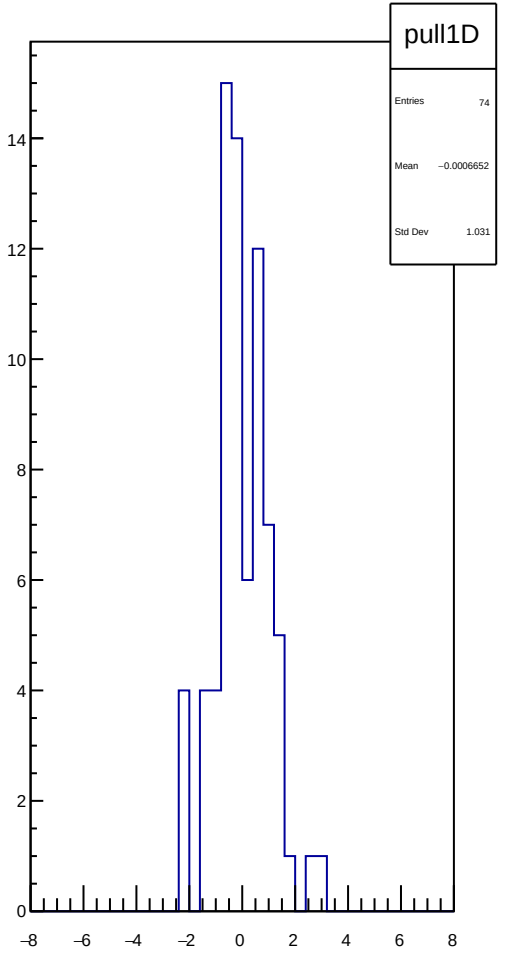
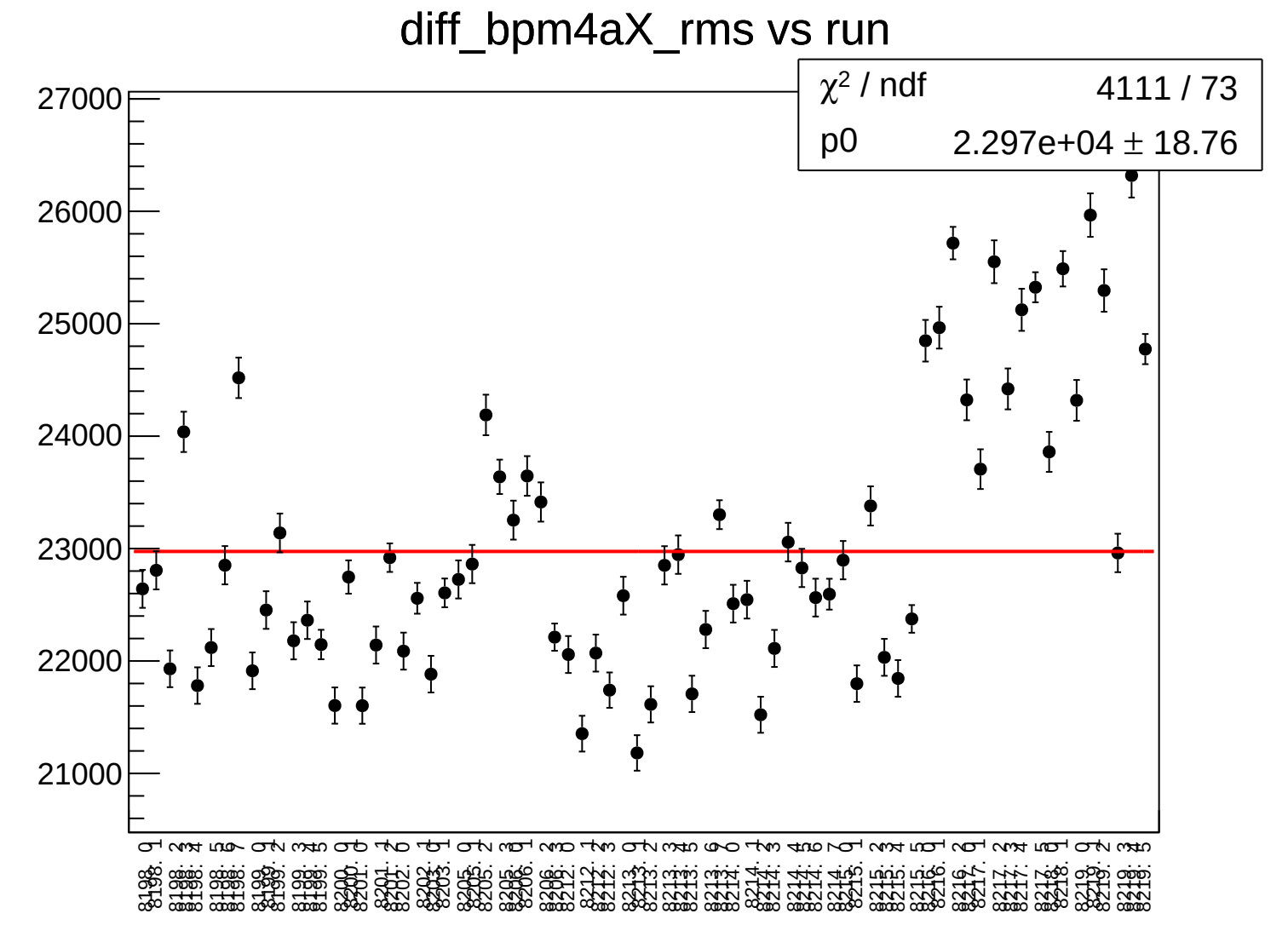
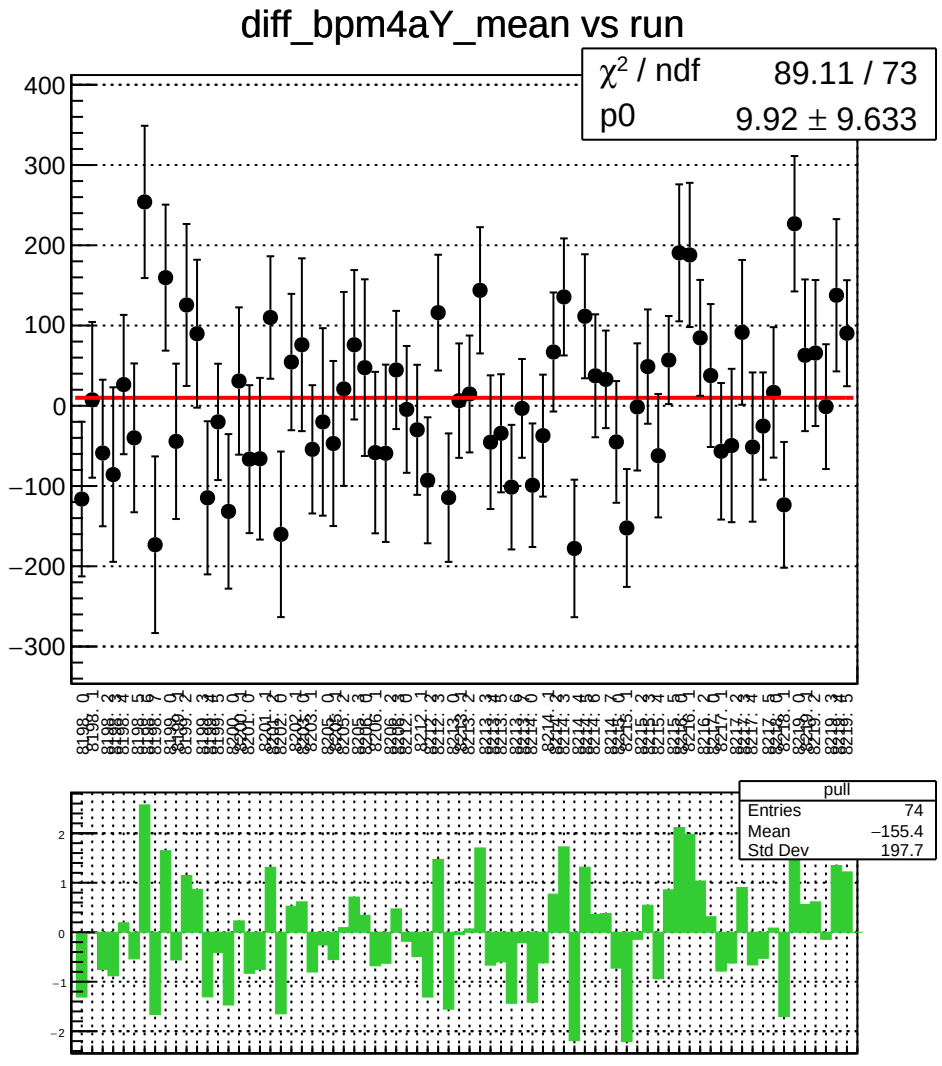
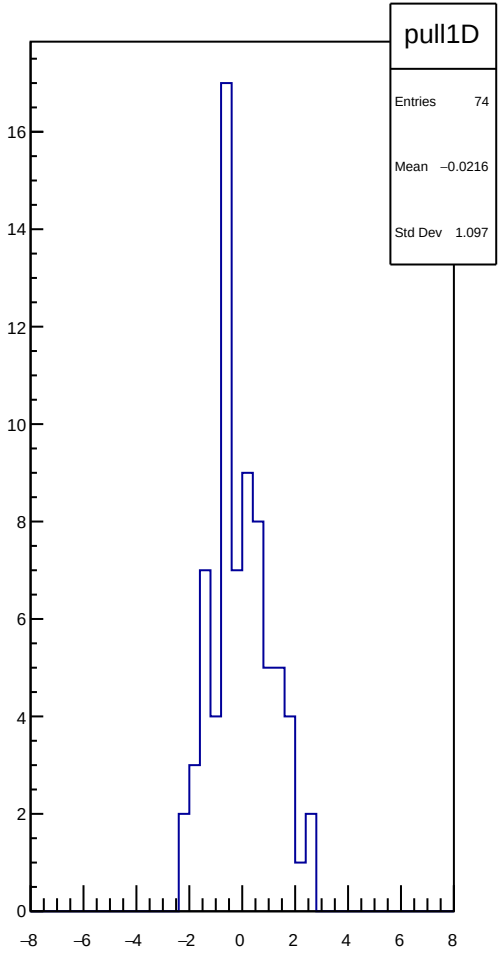
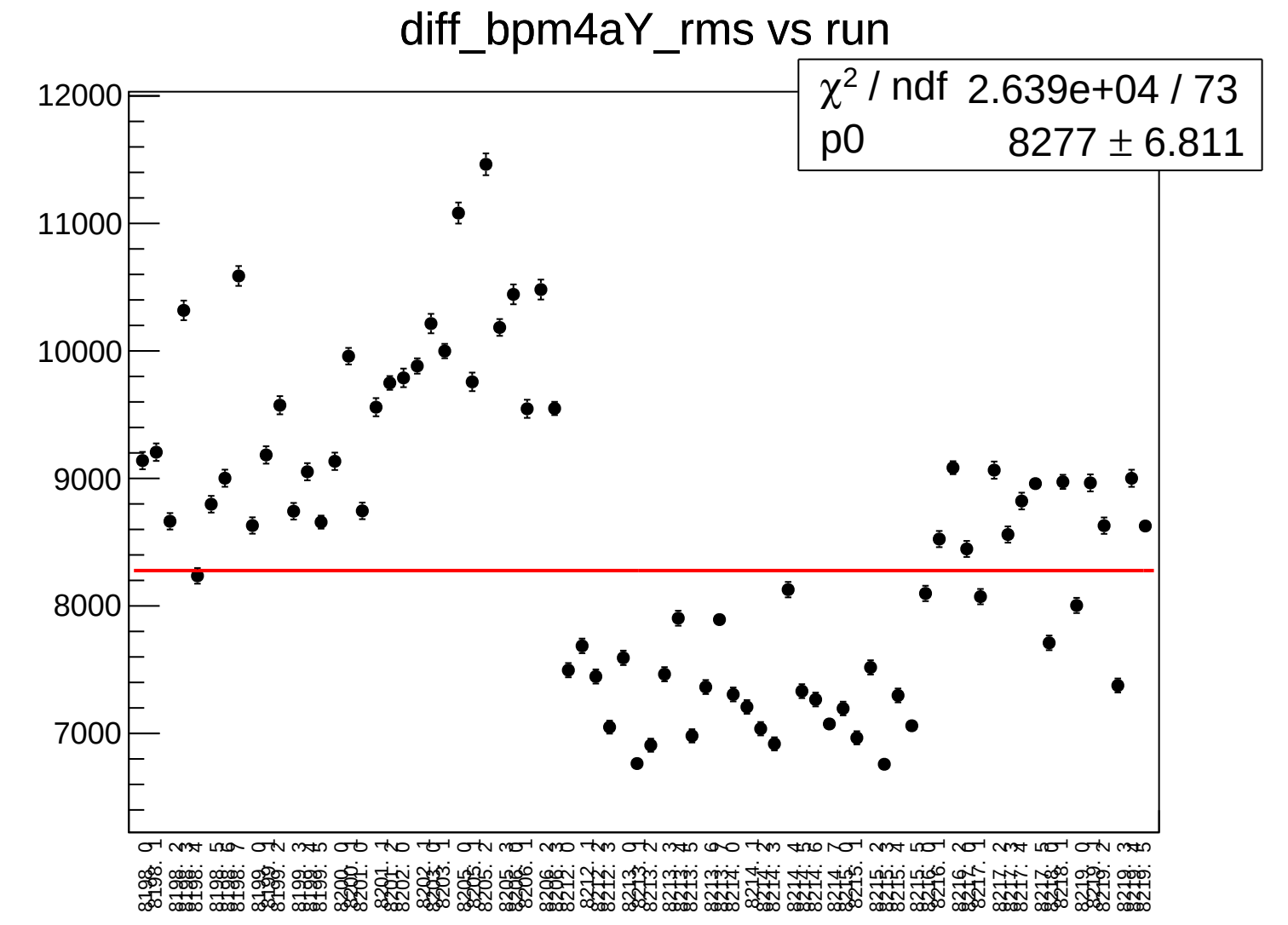

diff_bpm4aX_mean vs run
χ² / ndf 78.63 / 73
p0 −21.48 ± 26.54
pull
Entries 74
Mean 1721
Std Dev 1670

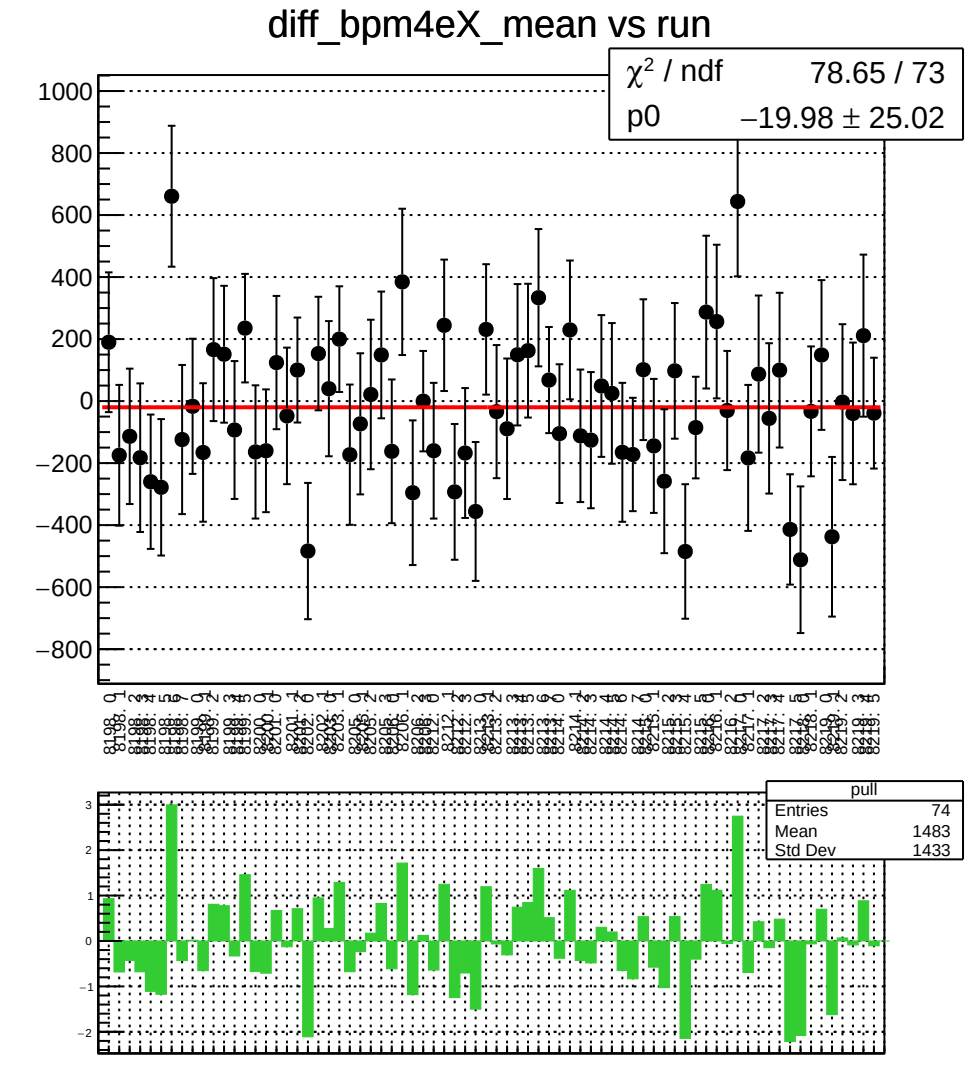

pull1D
Entries 74
Mean −0.0006652
Std Dev 1.031

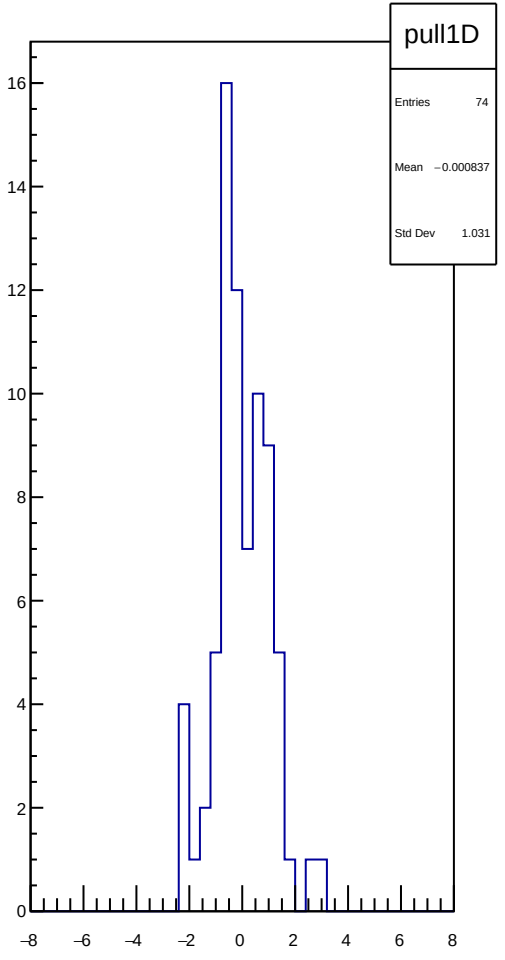

diff_bpm4aX_rms vs run
χ² / ndf 4111 / 73
p0 2.297e+04 ± 18.76
27000
26000
25000
24000
23000
22000
21000

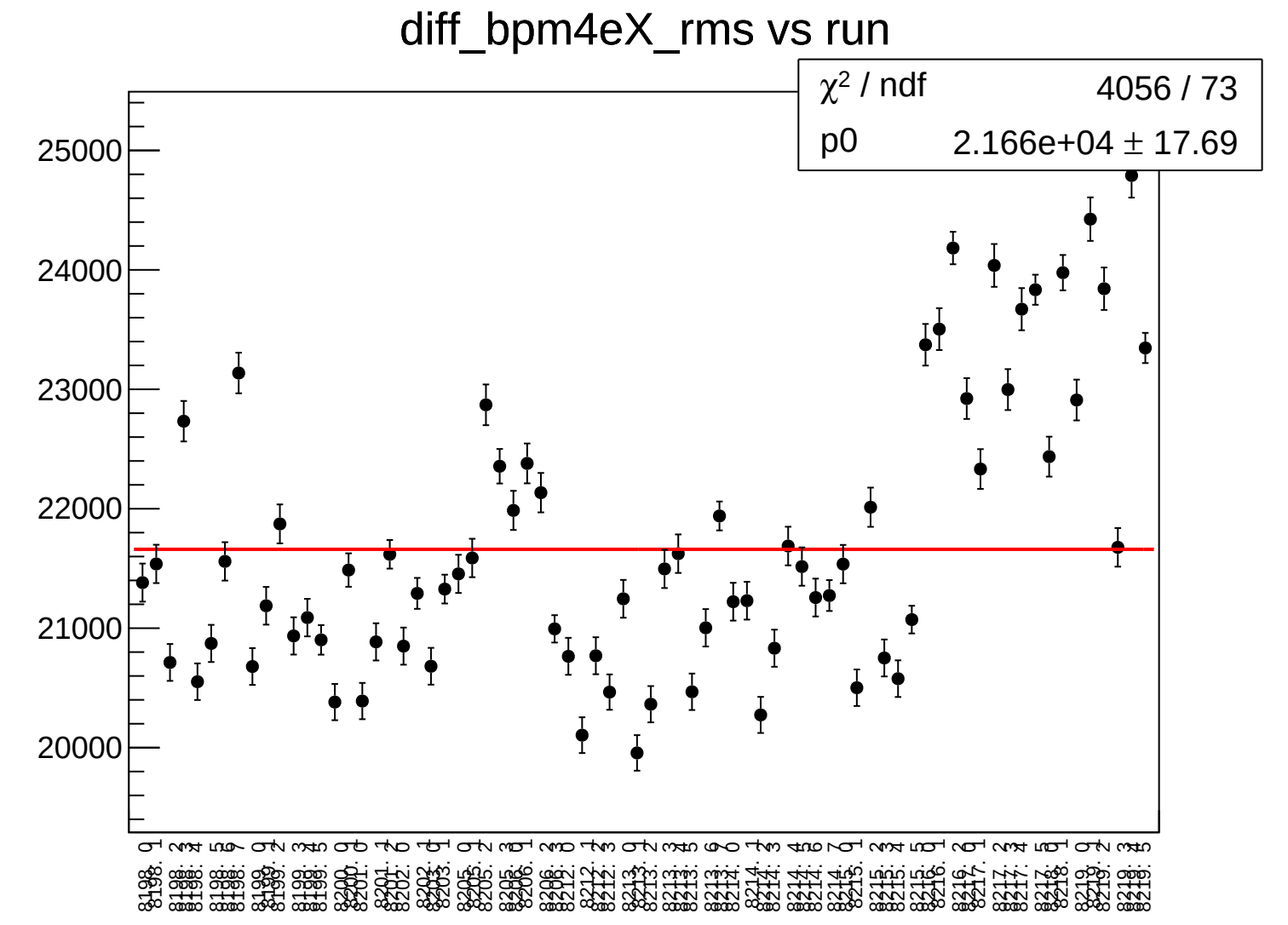

diff_bpm4aY_mean vs run
χ² / ndf 89.11 / 73
p0 9.92 ± 9.633
pull
Entries 74
Mean −155.4
Std Dev 197.7

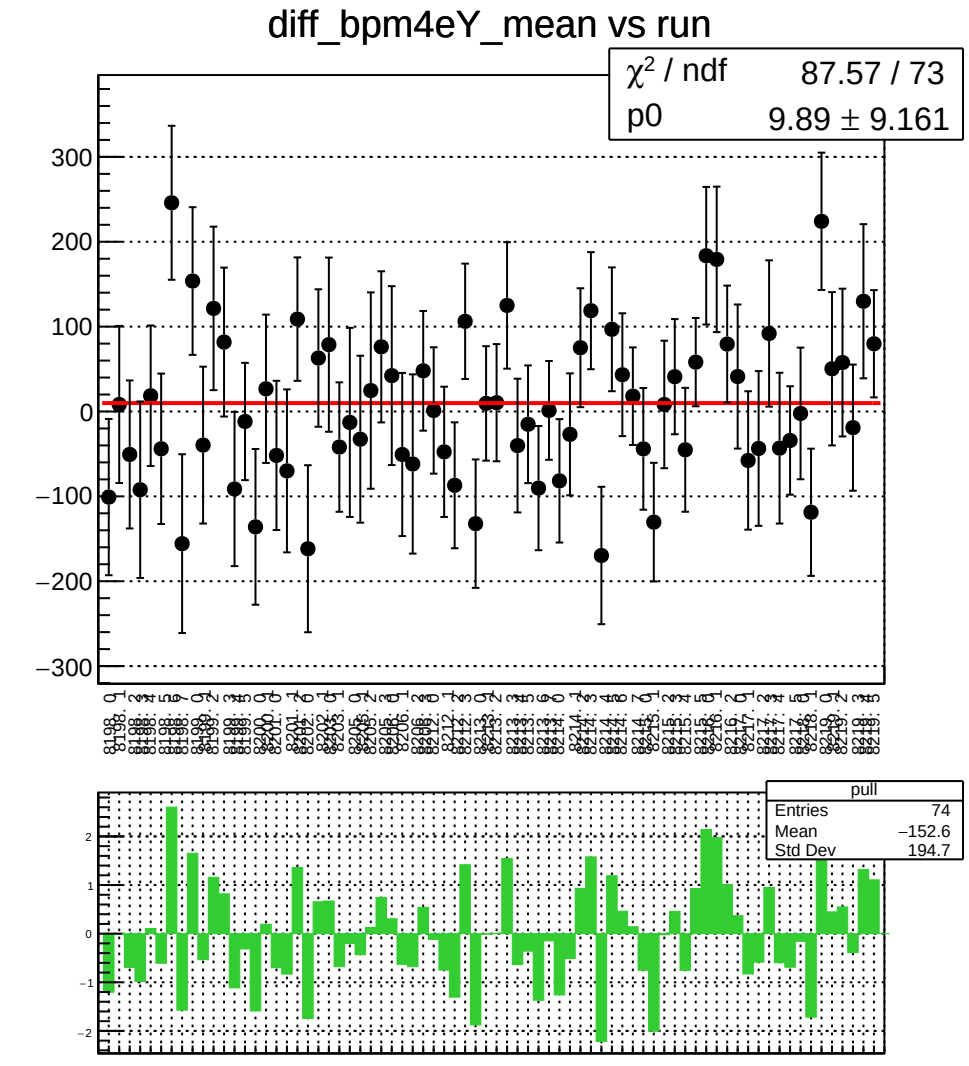

pull1D
Entries 74
Mean −0.0216
Std Dev 1.097

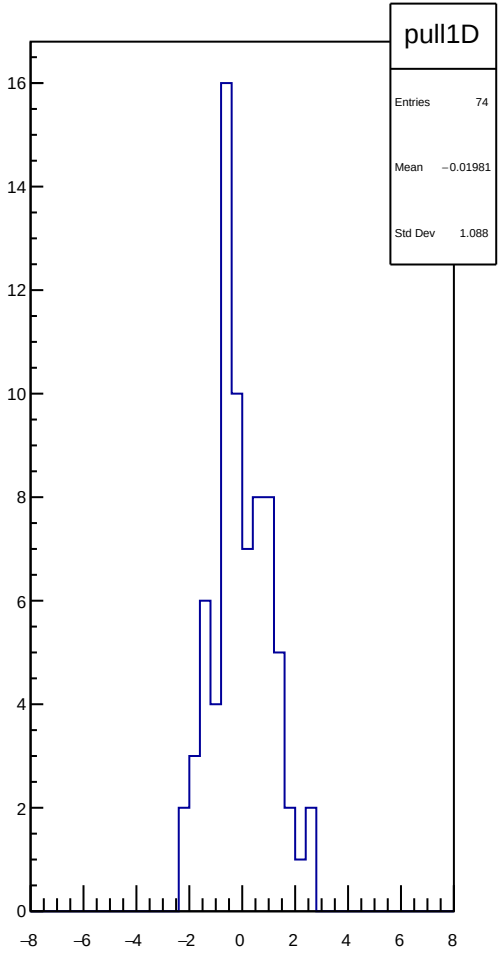

diff_bpm4aY_rms vs run
χ² / ndf 2.639e+04 / 73
p0 8277 ± 6.811
12000
11000
10000
9000
8000
7000

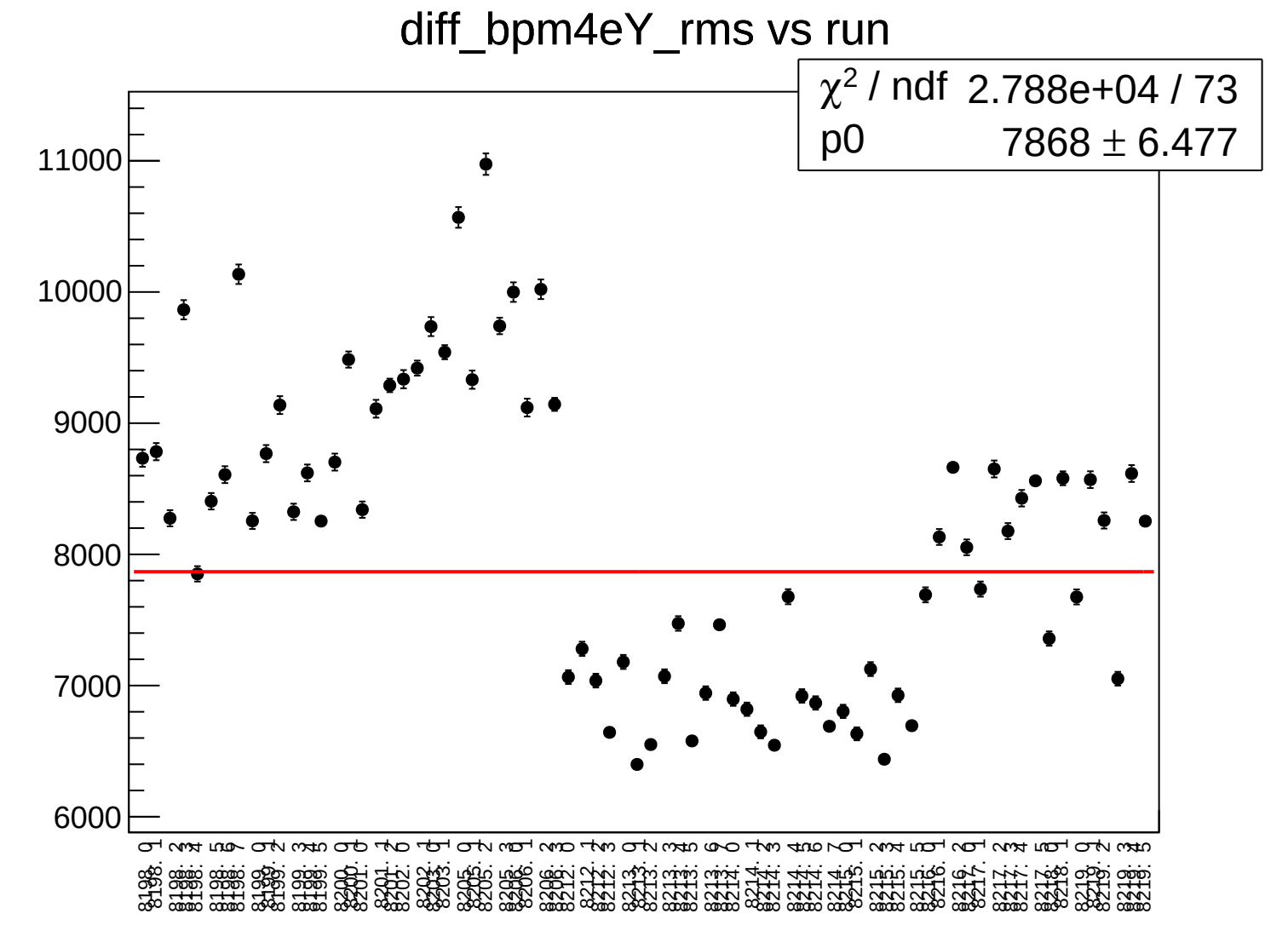

diff_bpm4eX_mean vs run
χ² / ndf 78.65 / 73
p0 −19.98 ± 25.02
pull
Entries 74
Mean 1483
Std Dev 1433

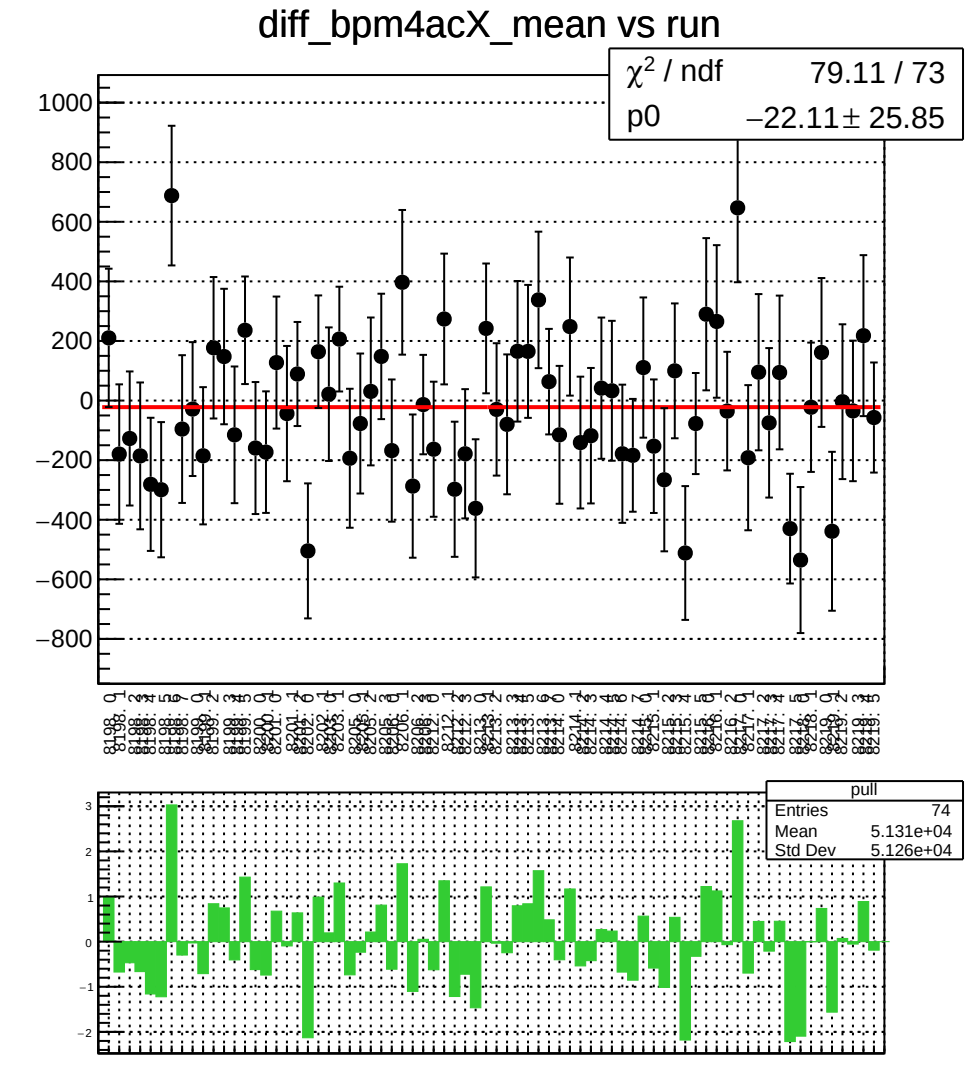

pull1D
Entries 74
Mean −0.000837
Std Dev 1.031

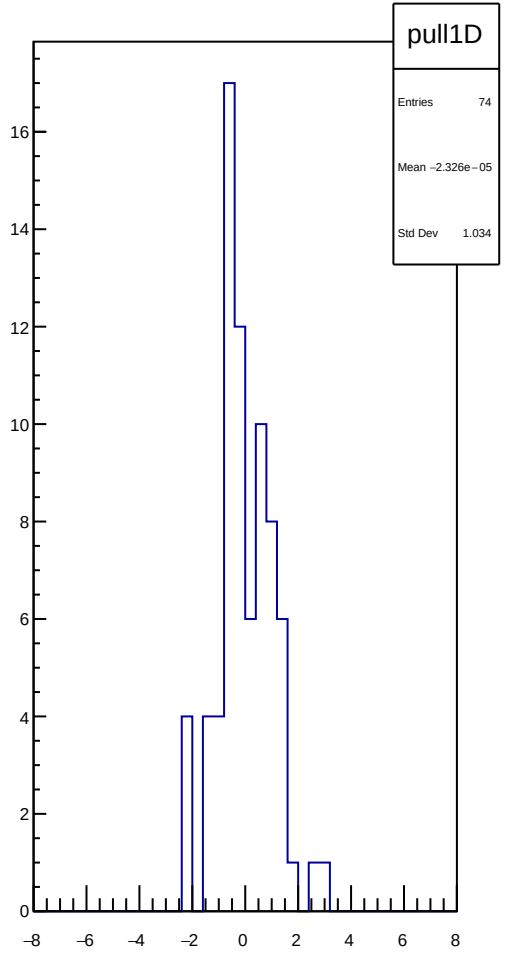

diff_bpm4eX_rms vs run
χ² / ndf 4056 / 73
p0 2.166e+04 ± 17.69
25000
24000
23000
22000
21000
20000

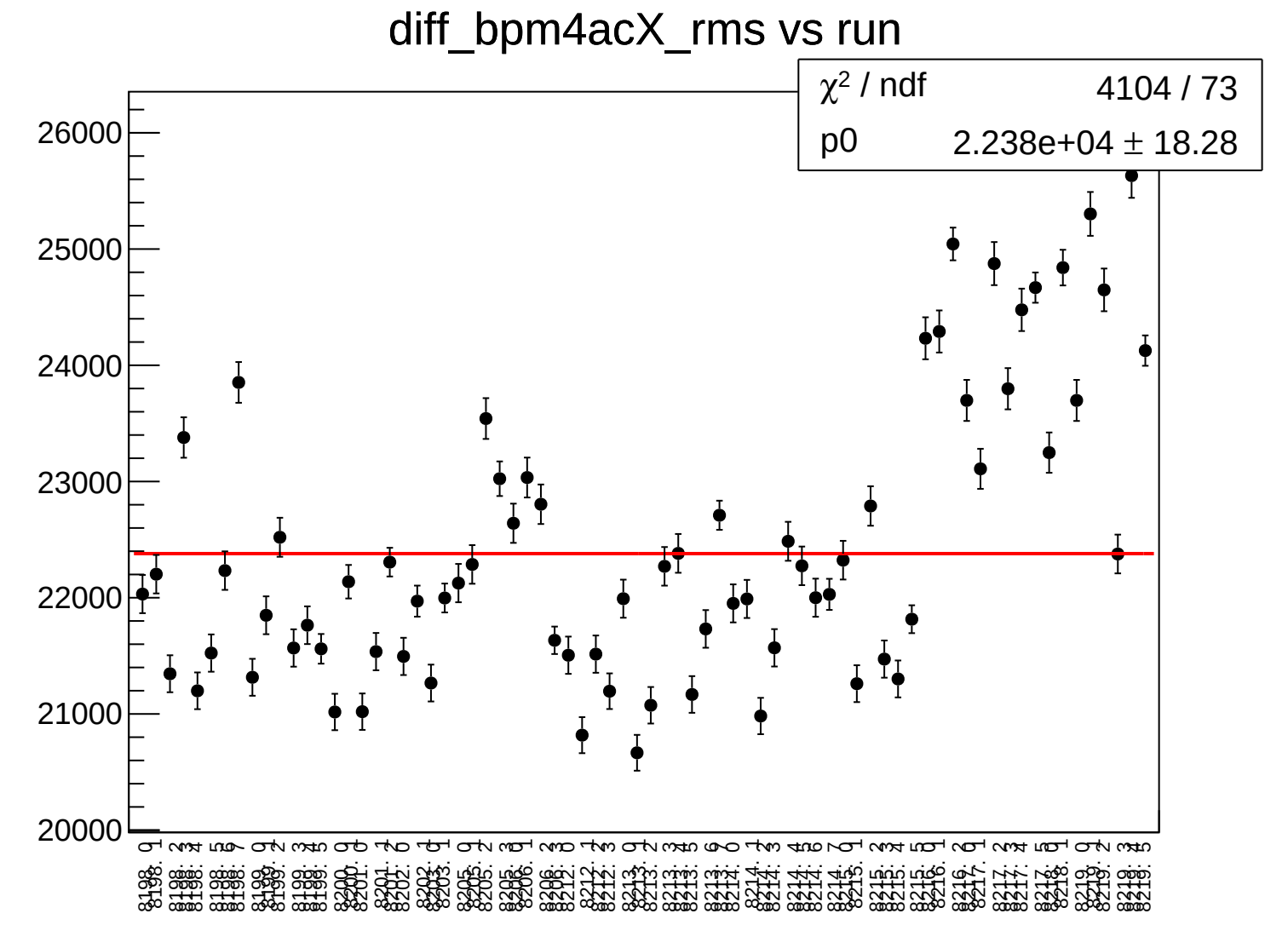

diff_bpm4eY_mean vs run
χ² / ndf 87.57 / 73
p0 9.89 ± 9.161
pull
Entries 74
Mean −152.6
Std Dev 194.7

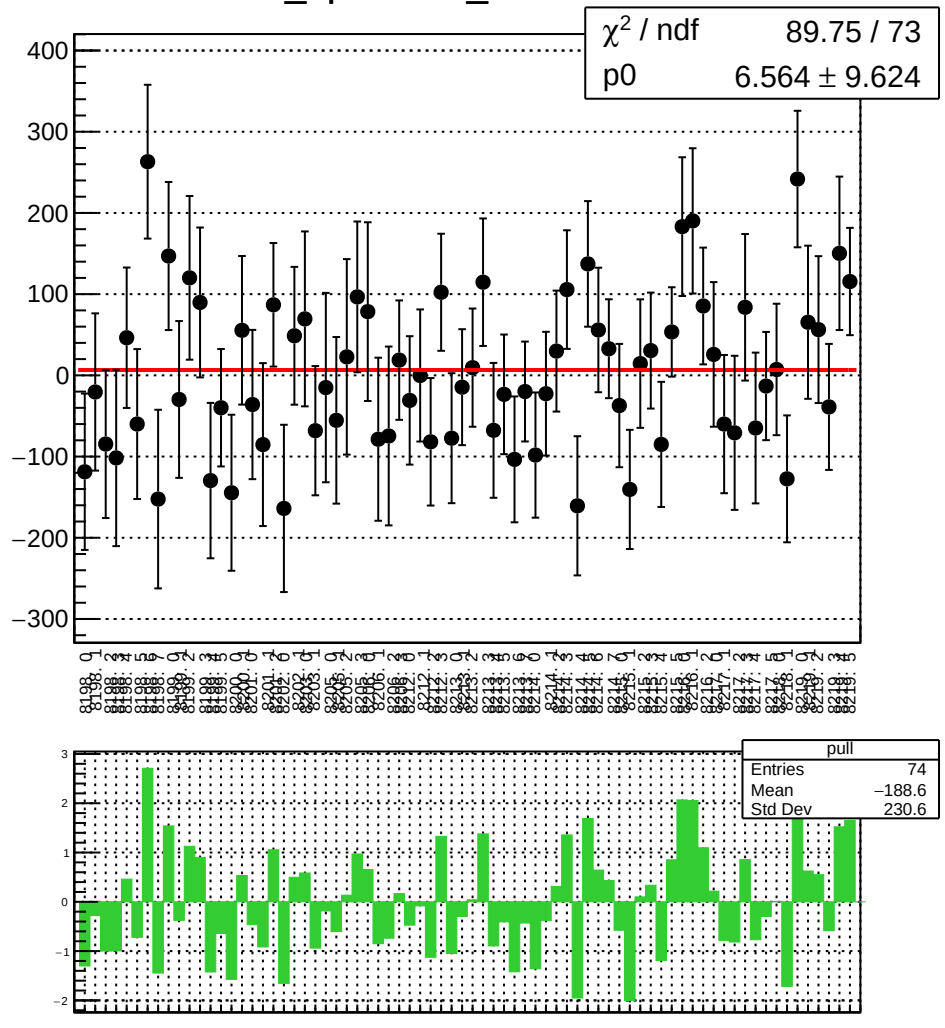

pull1D
Entries 74
Mean −0.01981
Std Dev 1.088

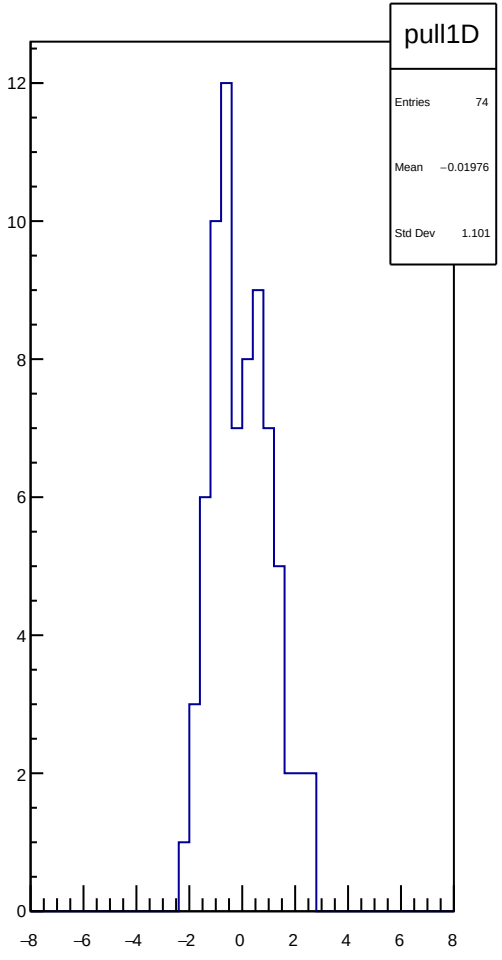

diff_bpm4eY_rms vs run
χ² / ndf 2.788e+04 / 73
p0 7868 ± 6.477
11000
10000
9000
8000
7000
6000

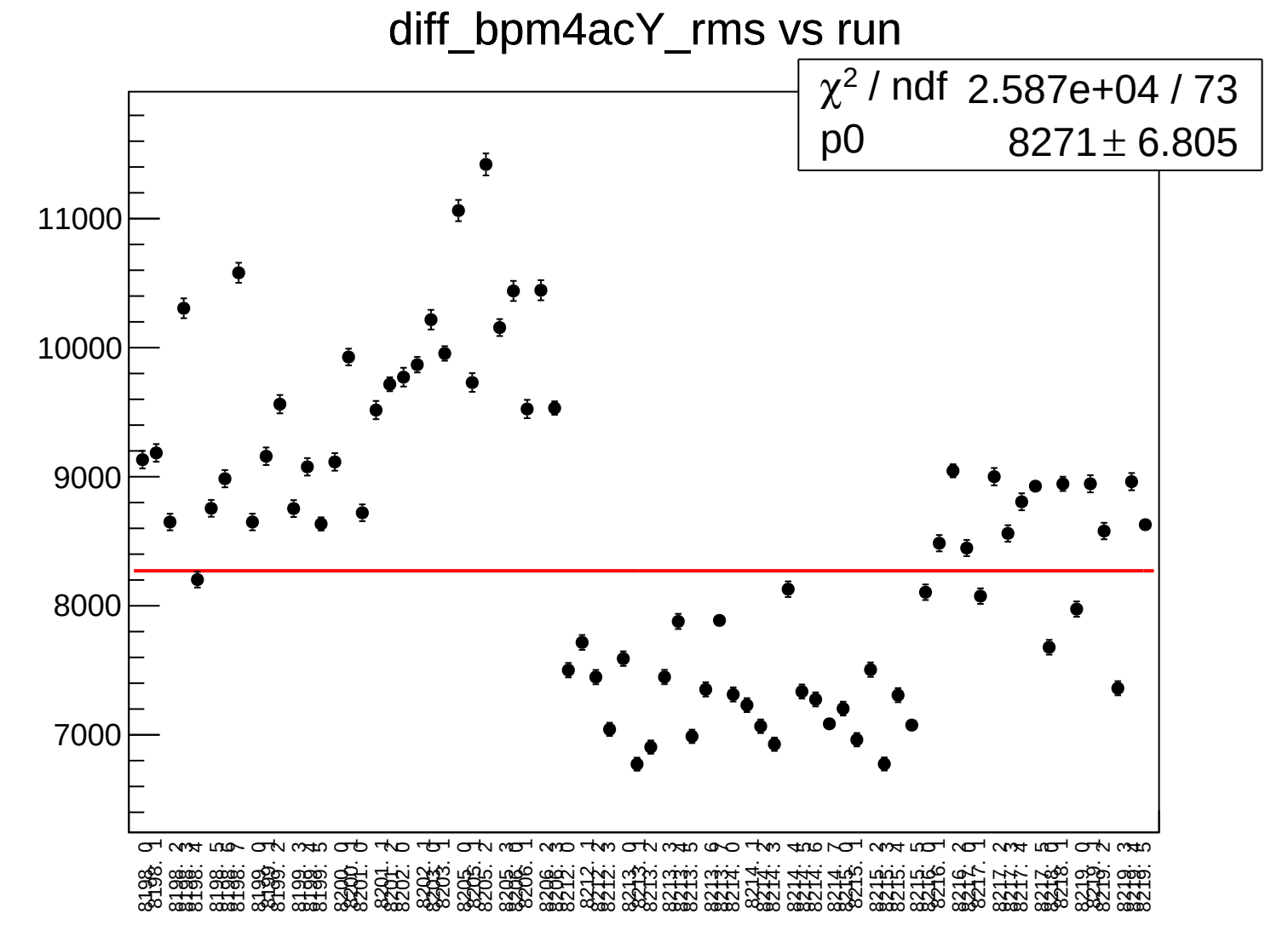

diff_bpm4acX_mean vs run
χ² / ndf 79.11 / 73
p0 −22.11± 25.85
pull
Entries 74
Mean 5.131e+04
Std Dev 5.126e+04

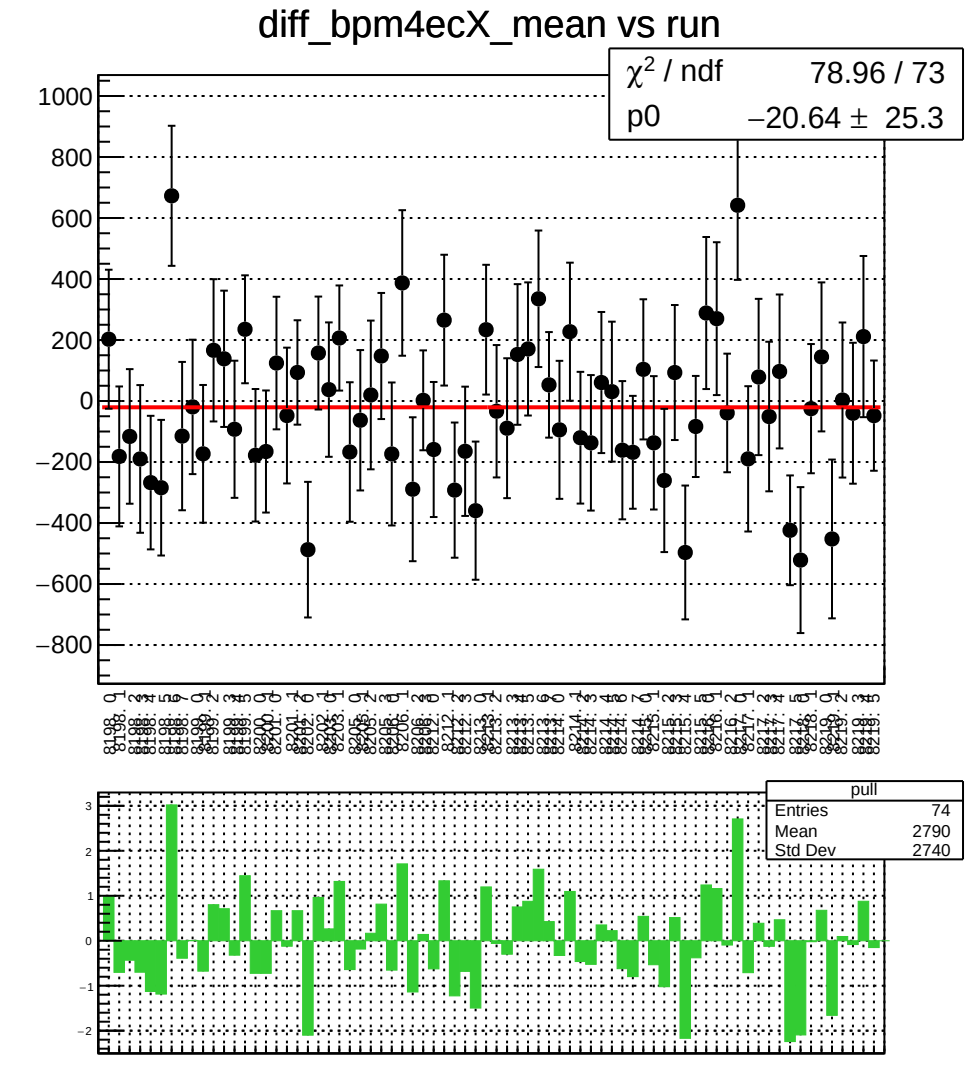

pull1D
Entries 74
Mean −2.326e−05
Std Dev 1.034

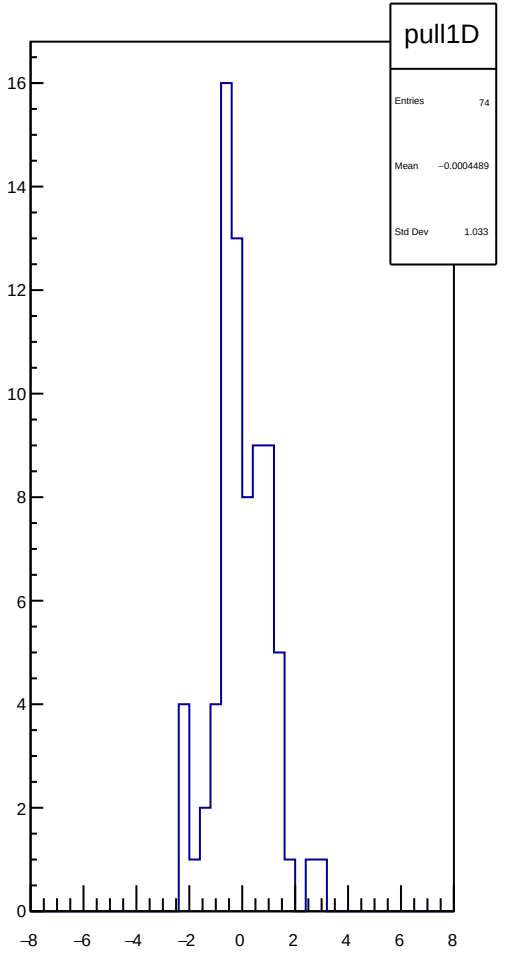

diff_bpm4acX_rms vs run
χ² / ndf 4104 / 73
p0 2.238e+04 ± 18.28
26000
25000
24000
23000
22000
21000
20000

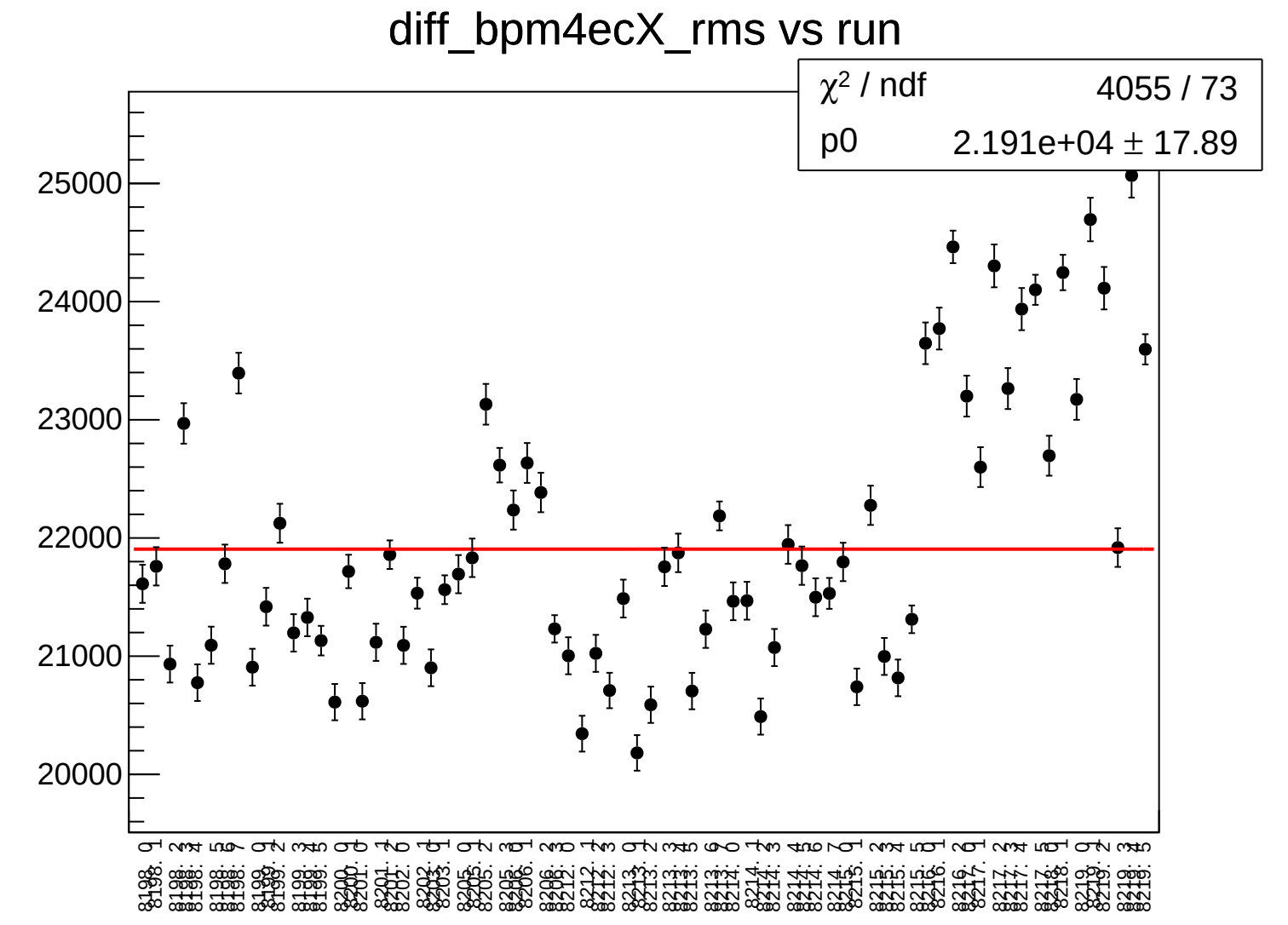

diff_bpm4acY_mean vs run
χ² / ndf 89.75 / 73
p0 6.564 ± 9.624
pull
Entries 74
Mean −188.6
Std Dev 230.6

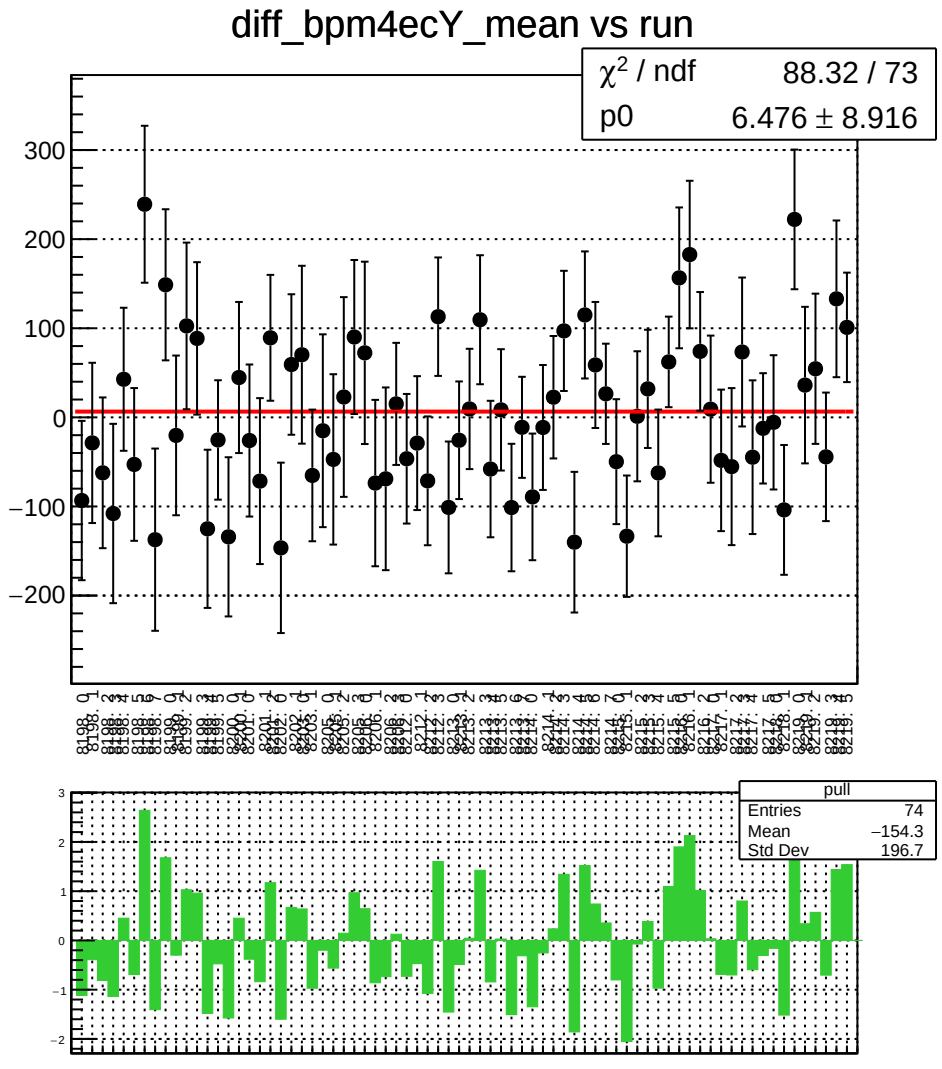

pull1D
Entries 74
Mean −0.01976
Std Dev 1.101

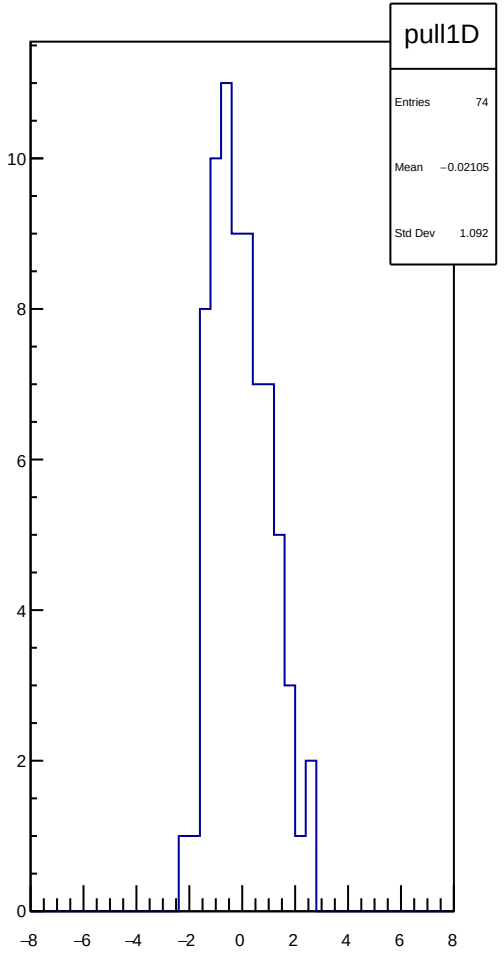

diff_bpm4acY_rms vs run
χ² / ndf 2.587e+04 / 73
p0 8271 ± 6.805
11000
10000
9000
8000
7000

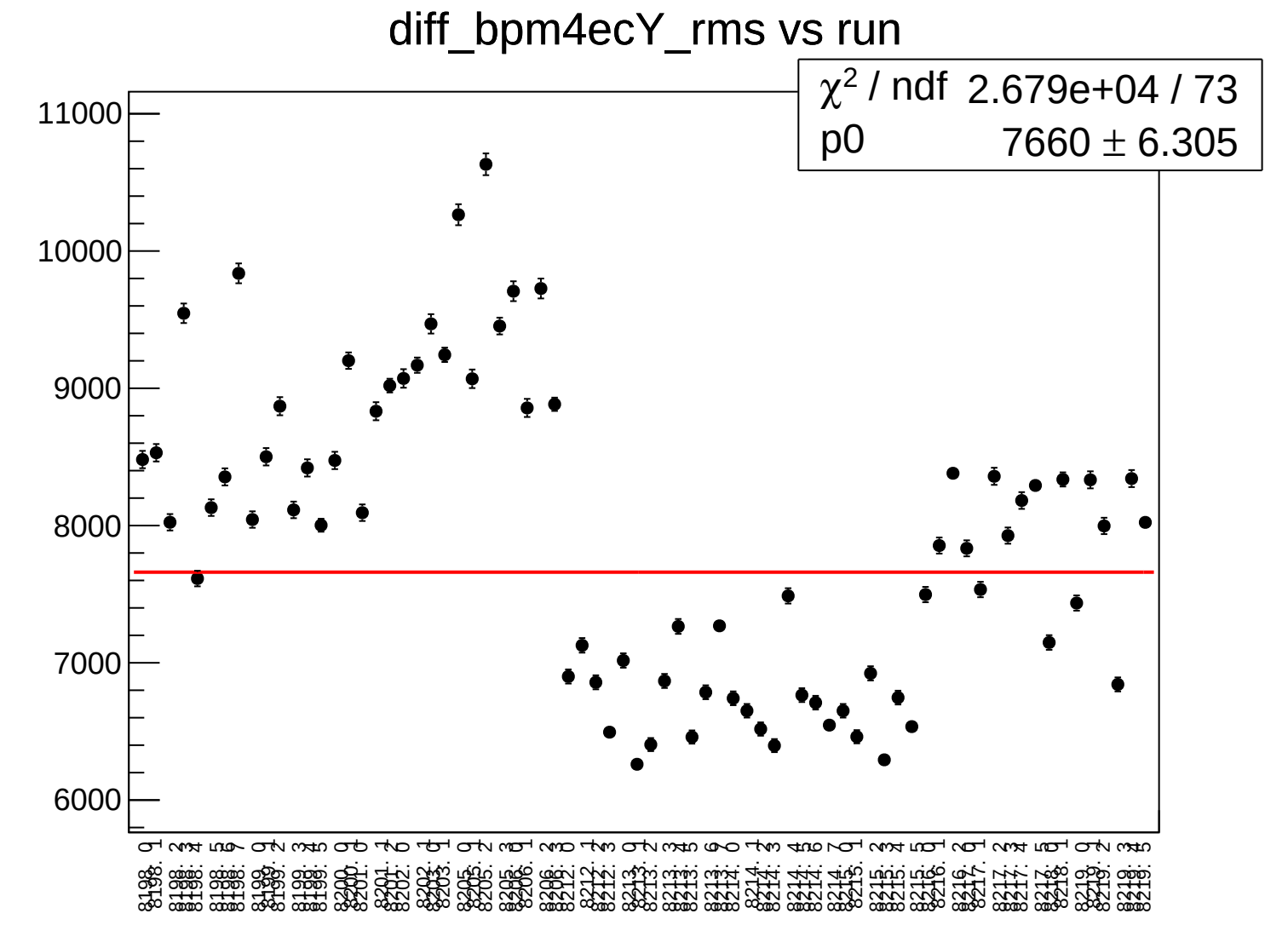

diff_bpm4ecX_mean vs run
χ² / ndf 78.96 / 73
p0 −20.64 ± 25.3
pull
Entries 74
Mean 2790
Std Dev 2740

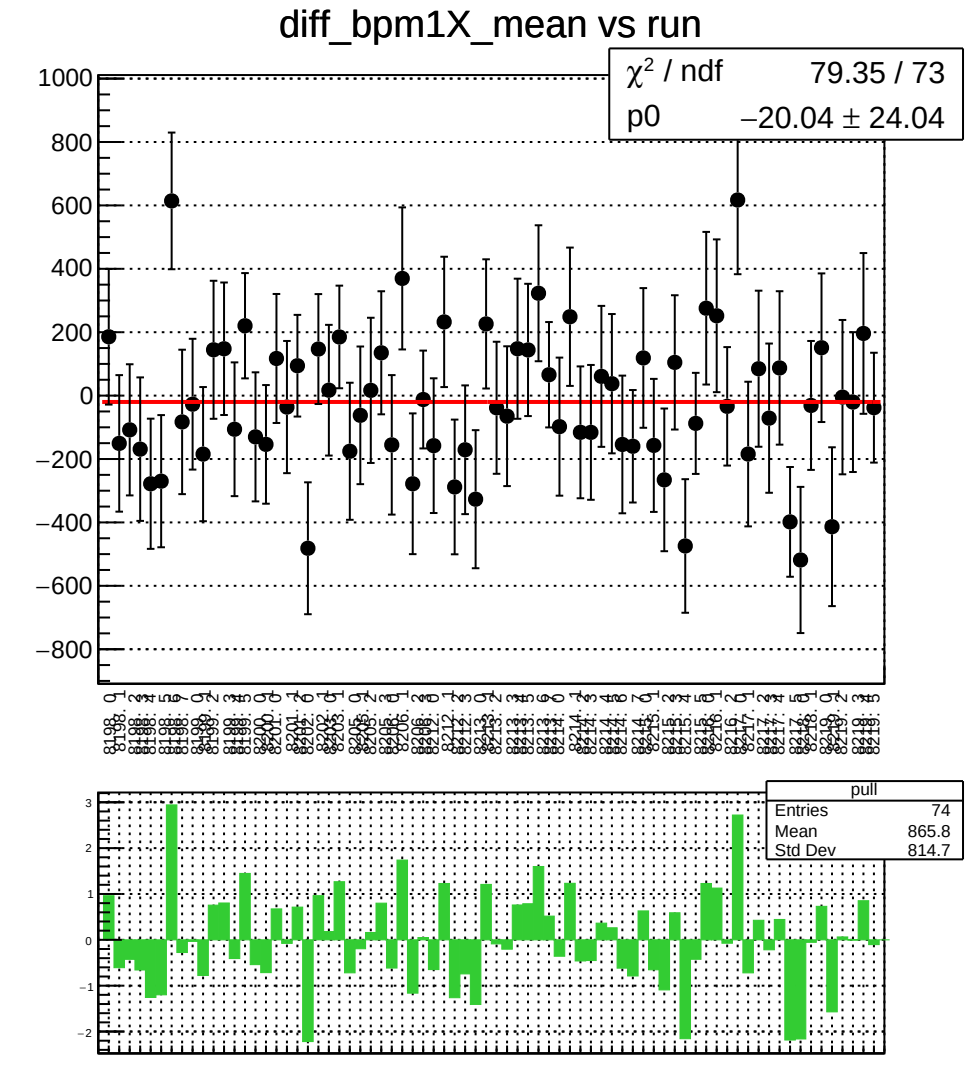

pull1D
Entries 74
Mean −0.0004489
Std Dev 1.033

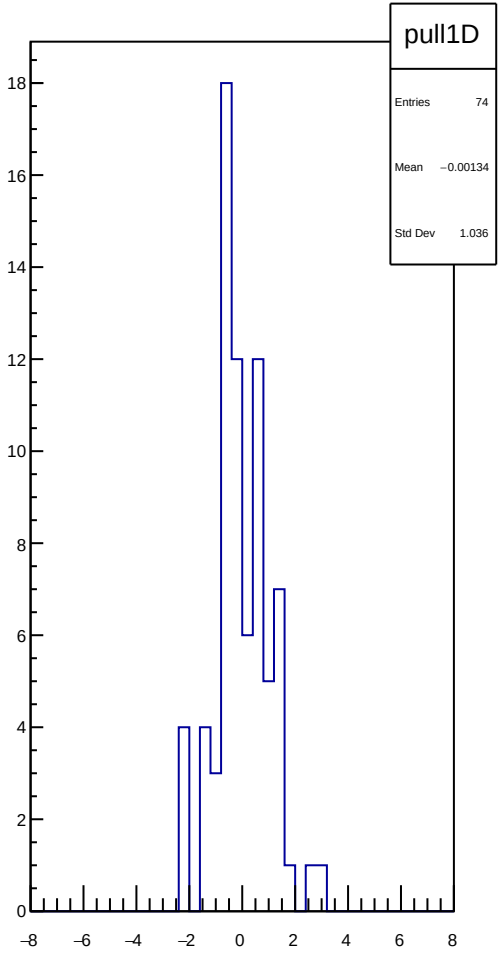

diff_bpm4ecX_rms vs run
χ² / ndf 4055 / 73
p0 2.191e+04 ± 17.89
25000
24000
23000
22000
21000
20000

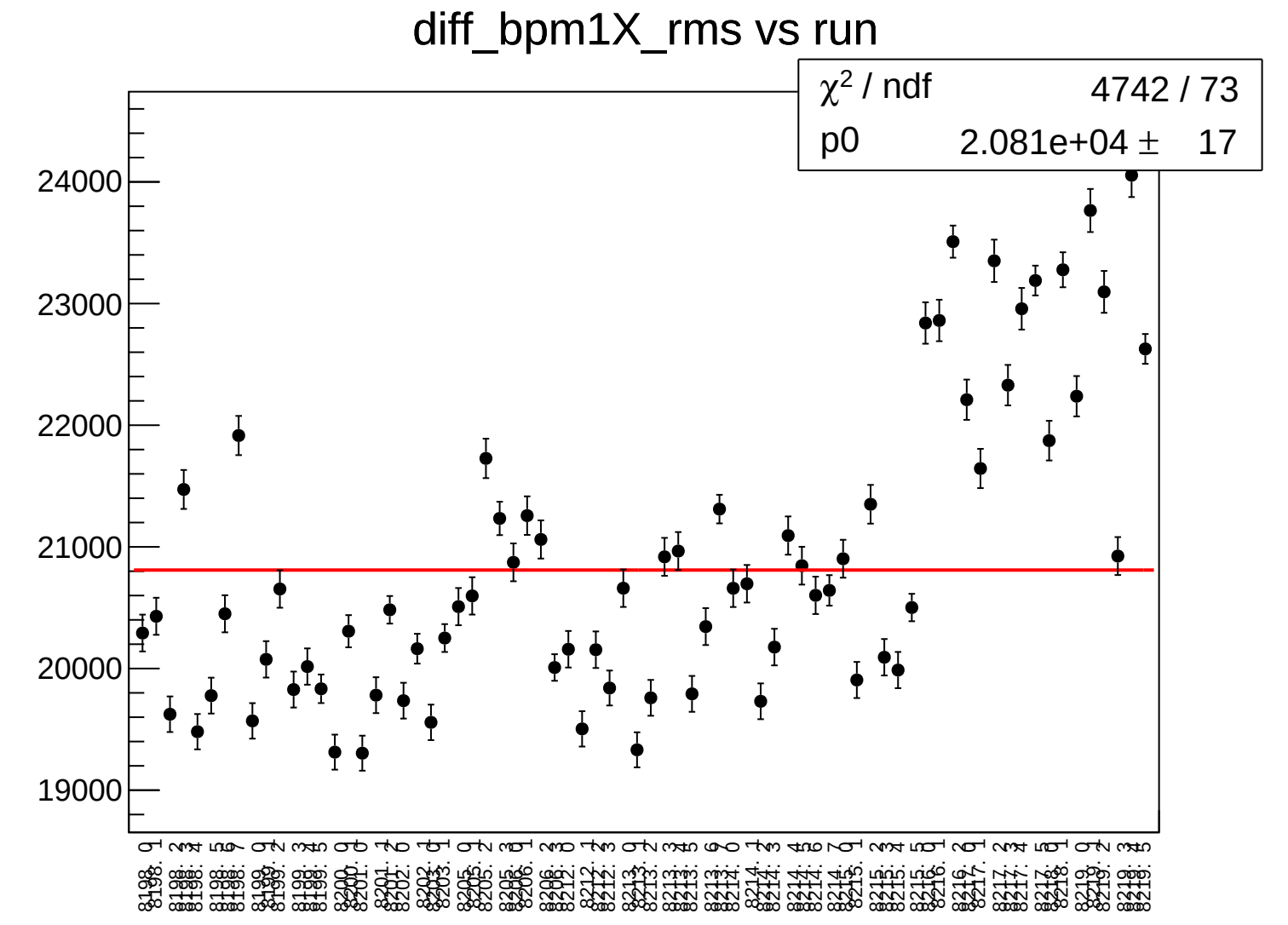

diff_bpm4ecY_mean vs run
χ² / ndf 88.32 / 73
p0 6.476 ± 8.916
300
200
100
0
−100
−200
pull
Entries 74
Mean −154.3
Std Dev 196.7
3
2
1
0
−1
−2

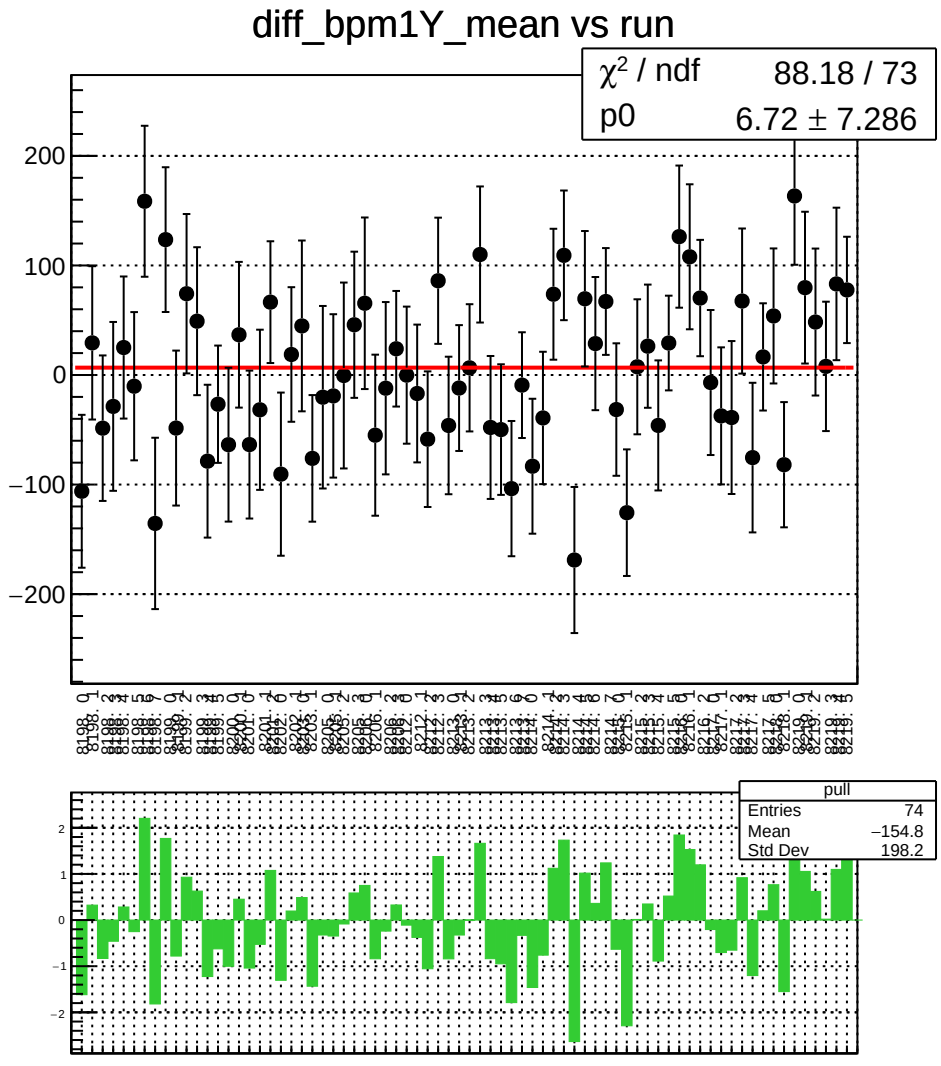

pull1D
Entries 74
Mean −0.02105
Std Dev 1.092
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

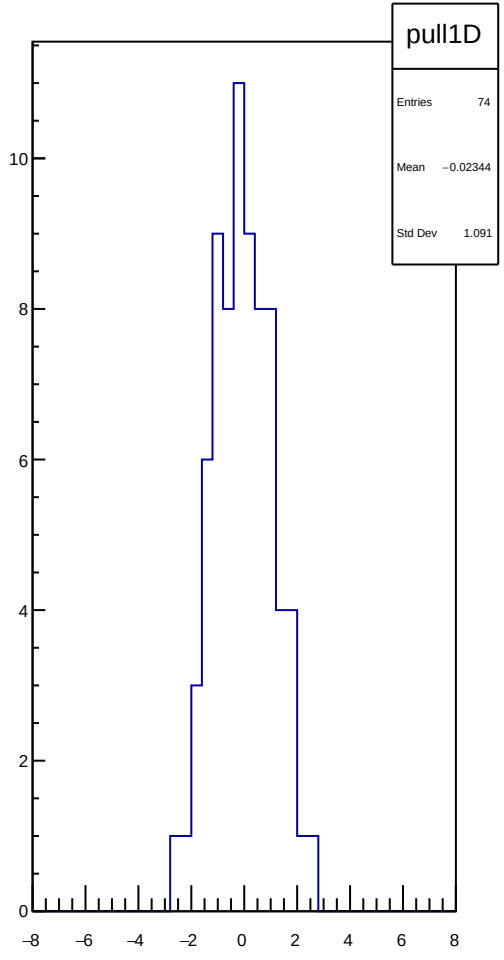

diff_bpm4ecY_rms vs run
χ² / ndf 2.679e+04 / 73
p0 7660 ± 6.305
11000
10000
9000
8000
7000
6000

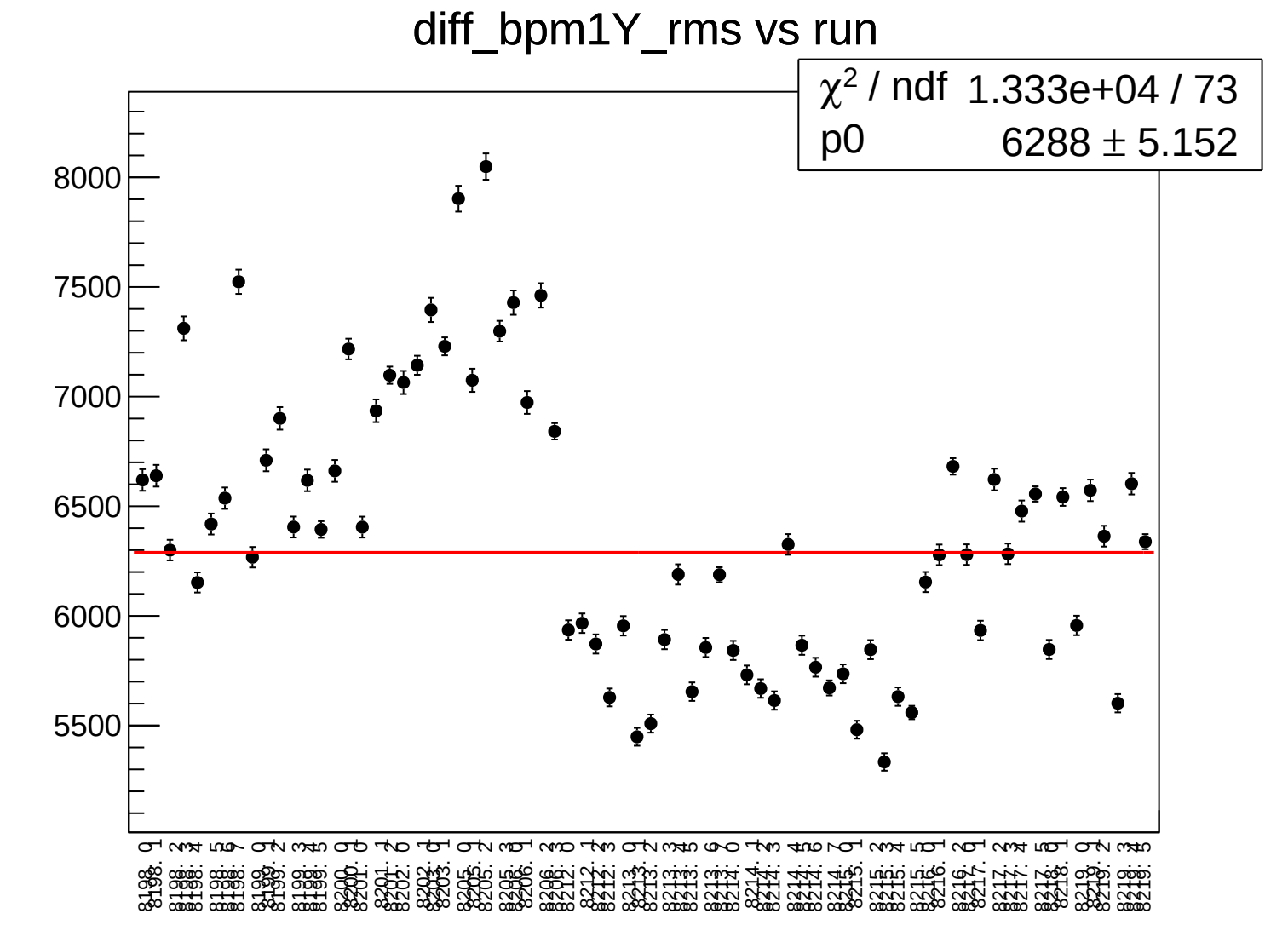

diff_bpm1X_mean vs run
χ² / ndf 79.35 / 73
p0 −20.04 ± 24.04
pull
Entries 74
Mean 865.8
Std Dev 814.7

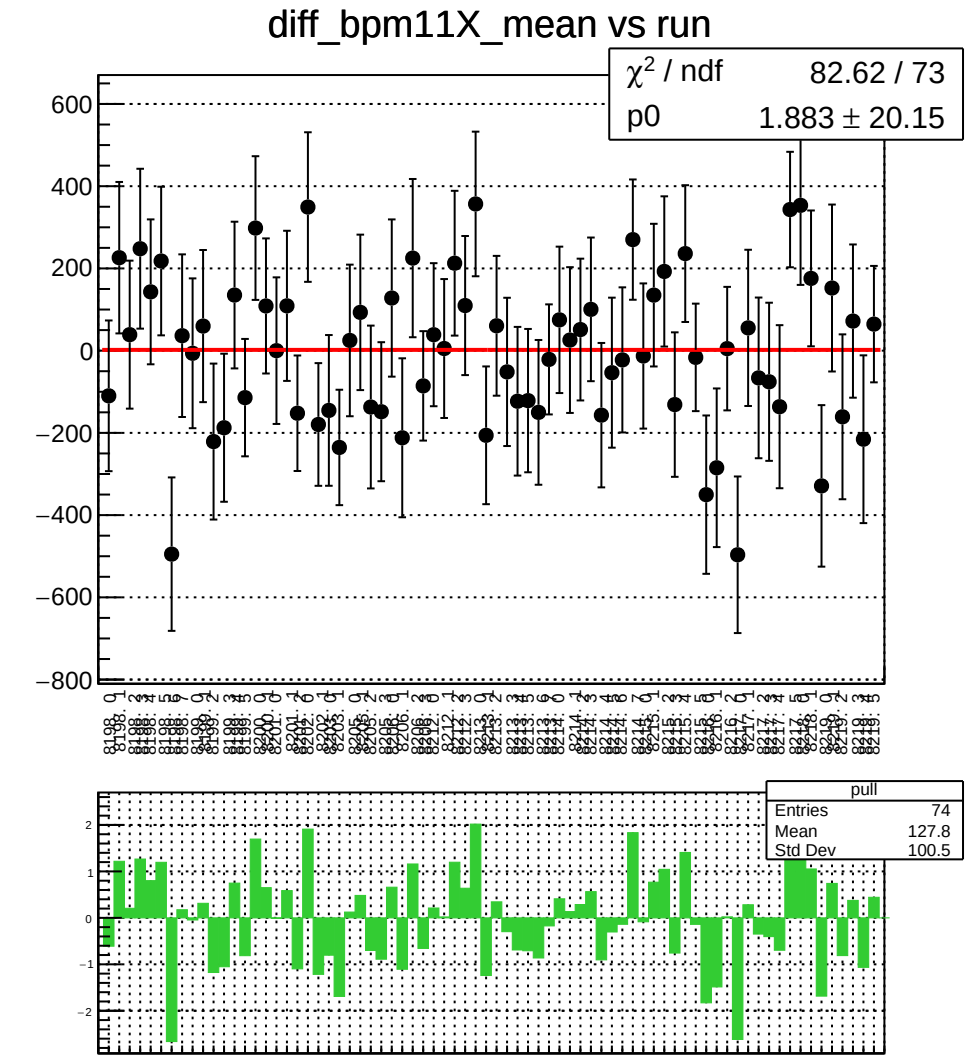

pull1D
Entries 74
Mean −0.00134
Std Dev 1.036

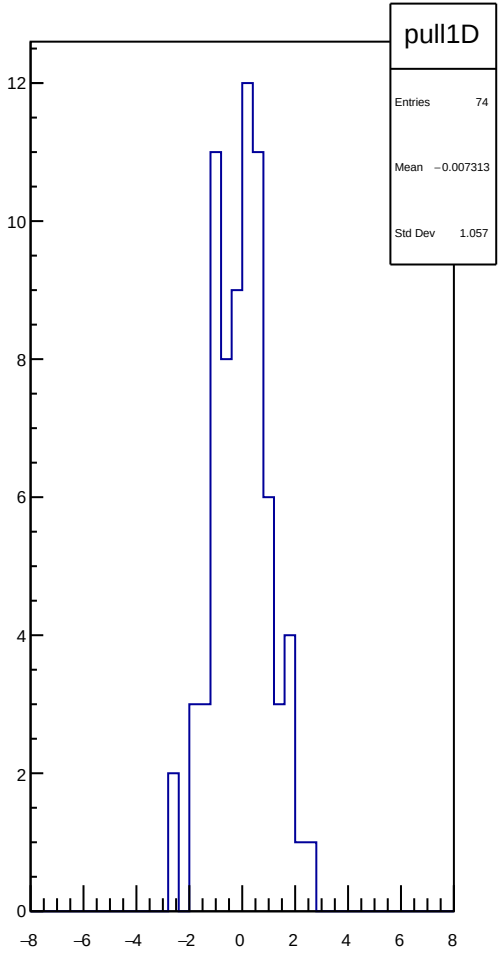

diff_bpm1X_rms vs run
χ² / ndf 4742 / 73
p0 2.081e+04 ± 17
24000
23000
22000
21000
20000
19000

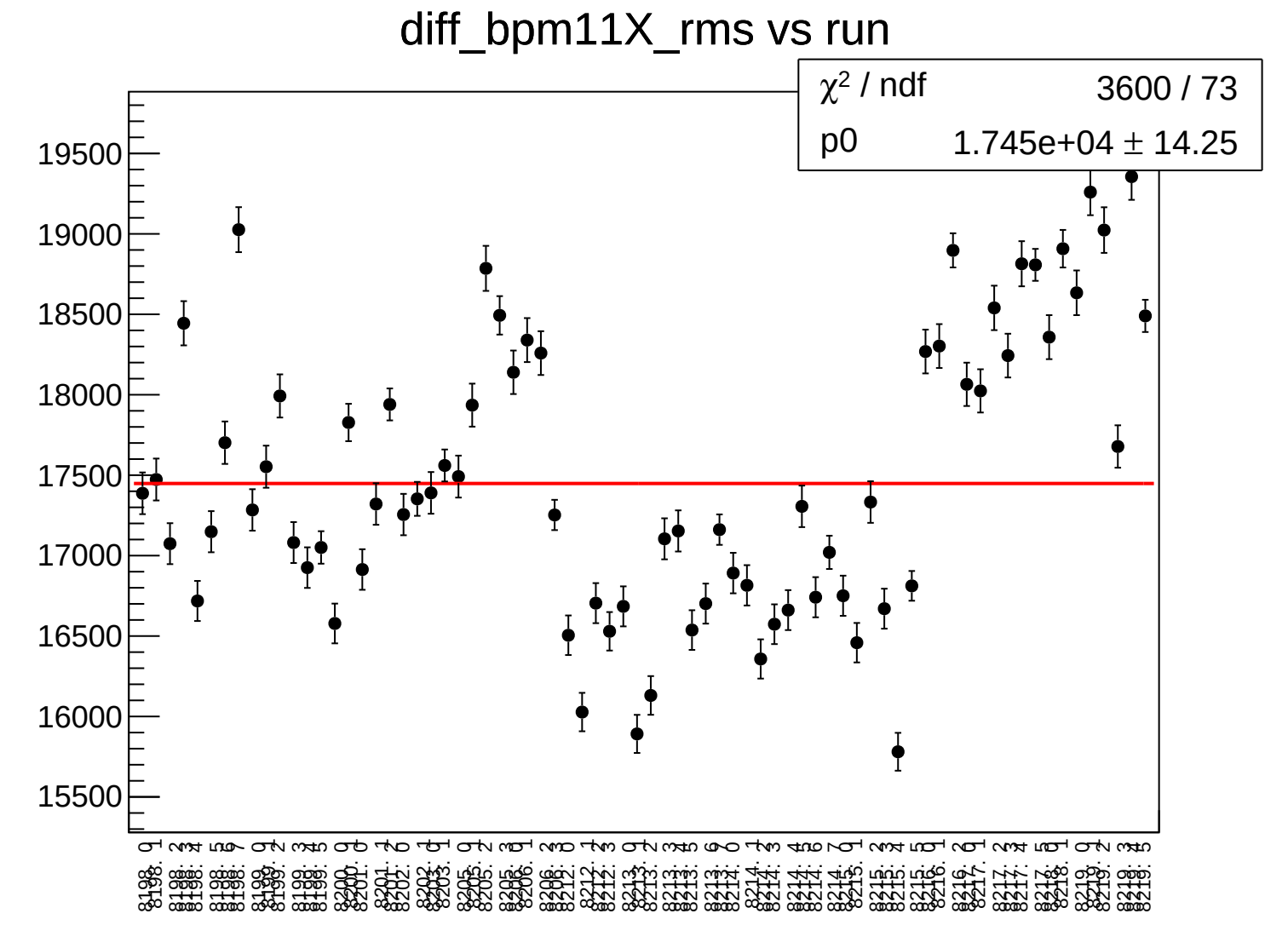

diff_bpm1Y_mean vs run
χ² / ndf 88.18 / 73
p0 6.72 ± 7.286
200
100
0
−100
−200
pull
Entries 74
Mean −154.8
Std Dev 198.2
2
1
0
−1
−2

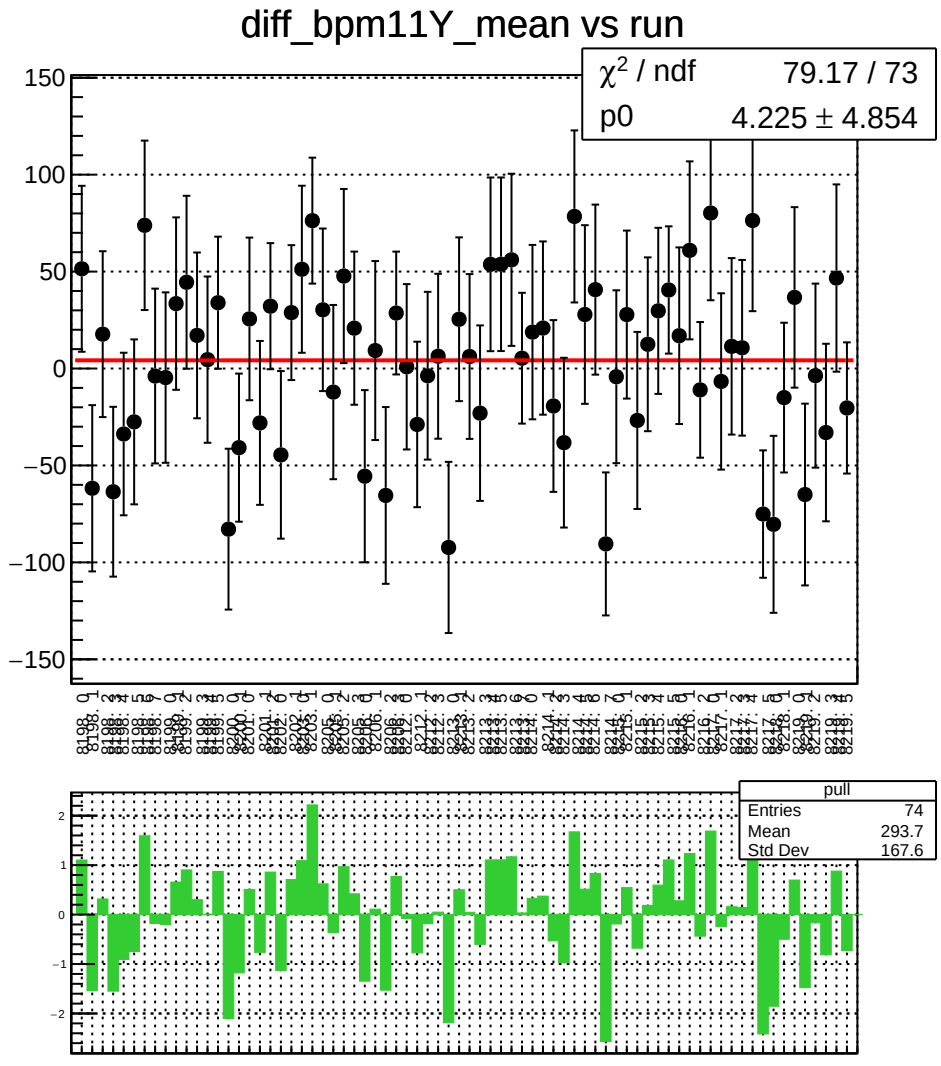

pull1D
Entries 74
Mean −0.02344
Std Dev 1.091
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

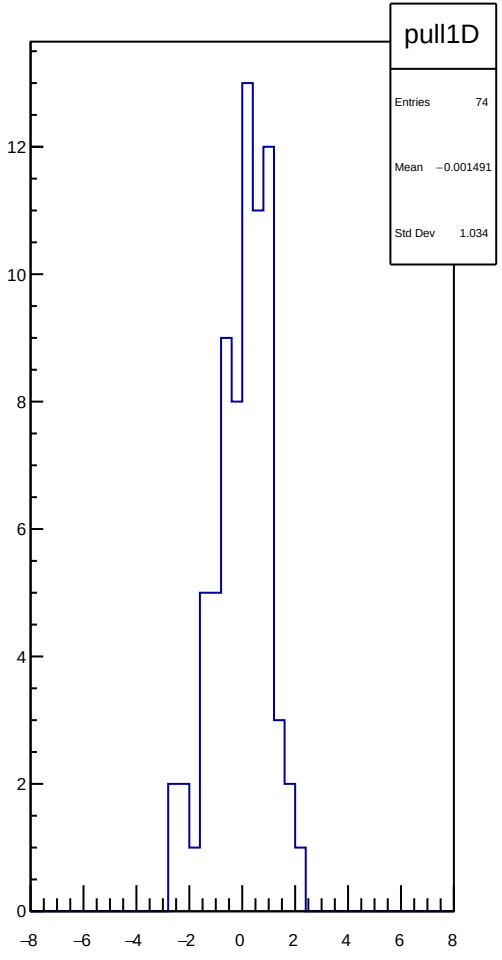

diff_bpm1Y_rms vs run
χ² / ndf 1.333e+04 / 73
p0 6288 ± 5.152
8000
7500
7000
6500
6000
5500

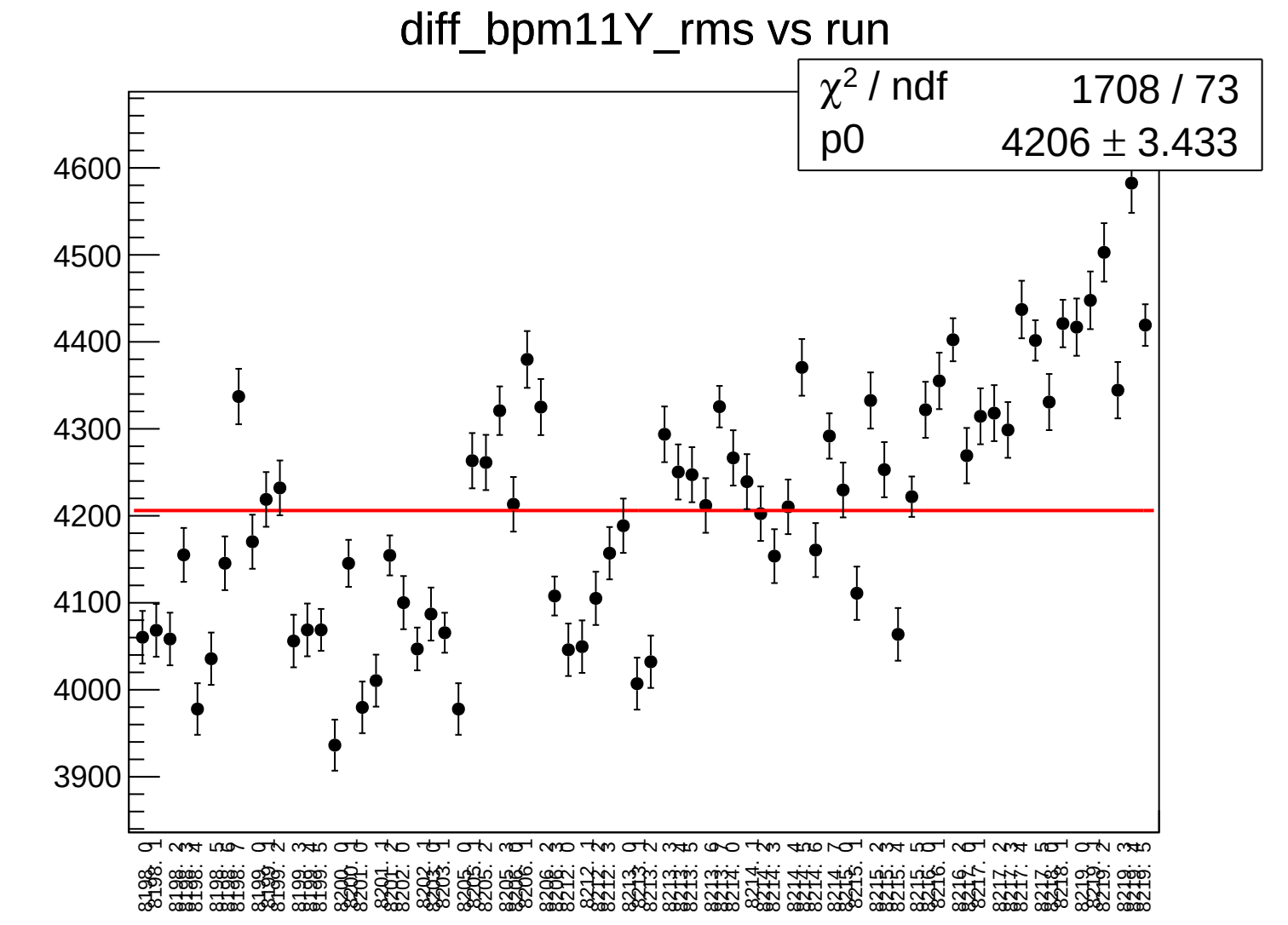

diff_bpm11X_mean vs run
χ^2 / ndf 82.62 / 73
p0 1.883 ± 20.15
pull
Entries 74
Mean 127.8
Std Dev 100.5

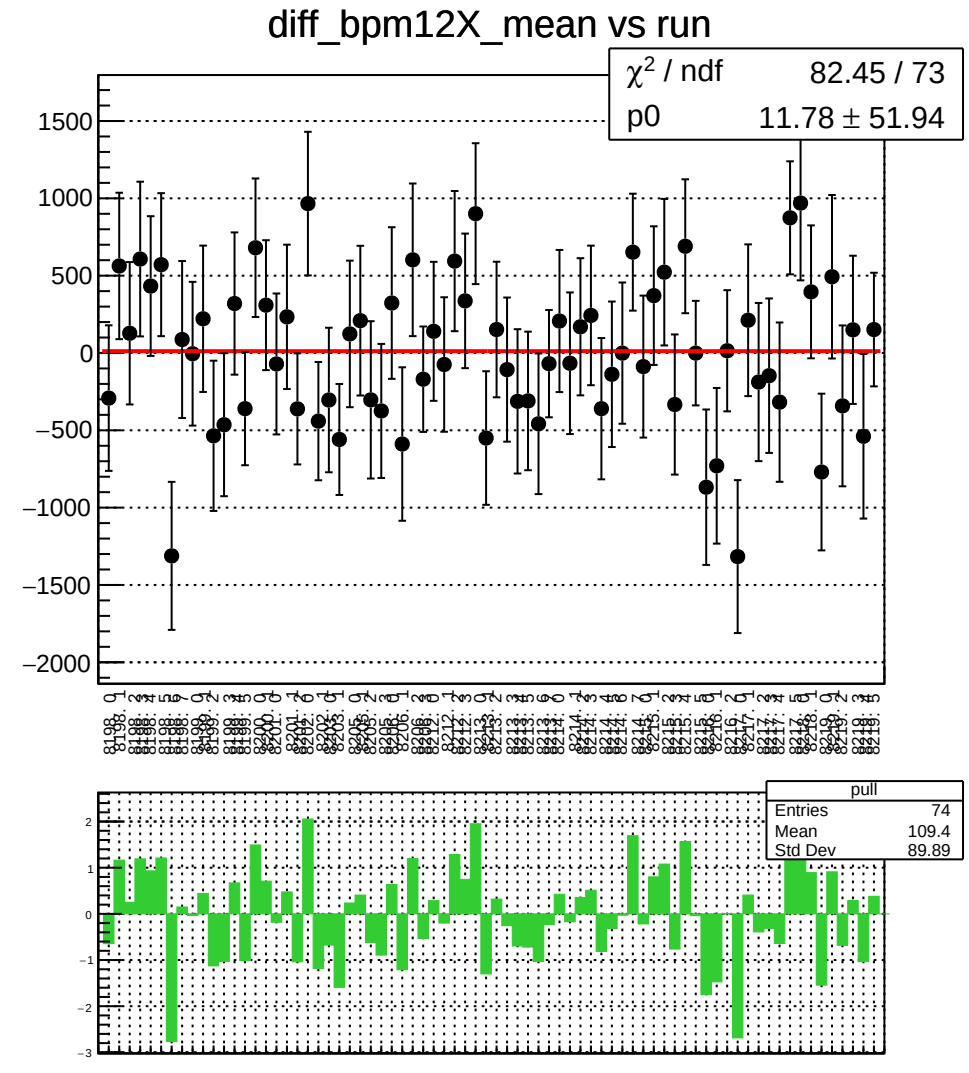

pull1D
Entries 74
Mean −0.007313
Std Dev 1.057

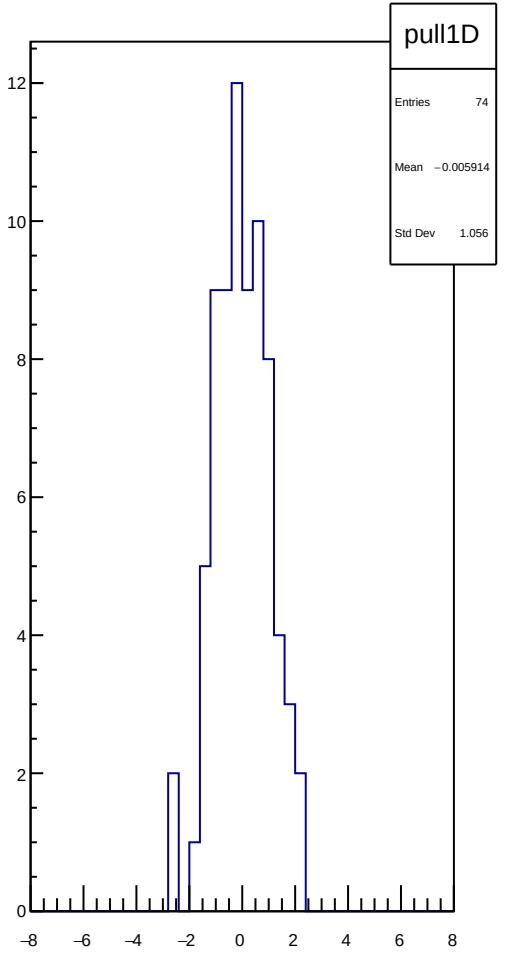

diff_bpm11X_rms vs run
χ² / ndf 3600 / 73
p0 1.745e+04 ± 14.25
19500
19000
18500
18000
17500
17000
16500
16000
15500

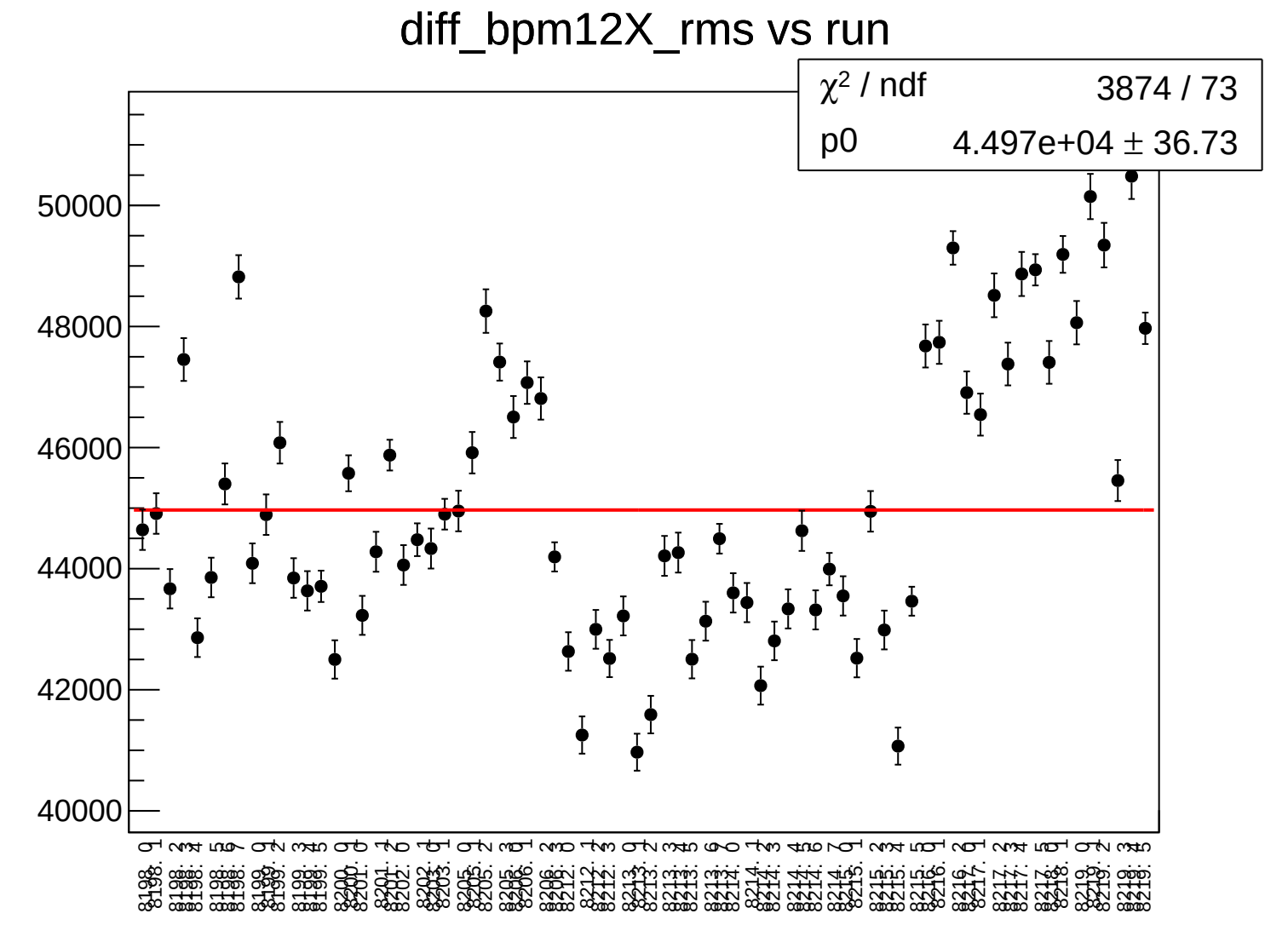

diff_bpm11Y_mean vs run
χ^2 / ndf 79.17 / 73
p0 4.225 ± 4.854
150
100
50
0
−50
−100
−150
pull
Entries 74
Mean 293.7
Std Dev 167.6
2
1
0
−1
−2

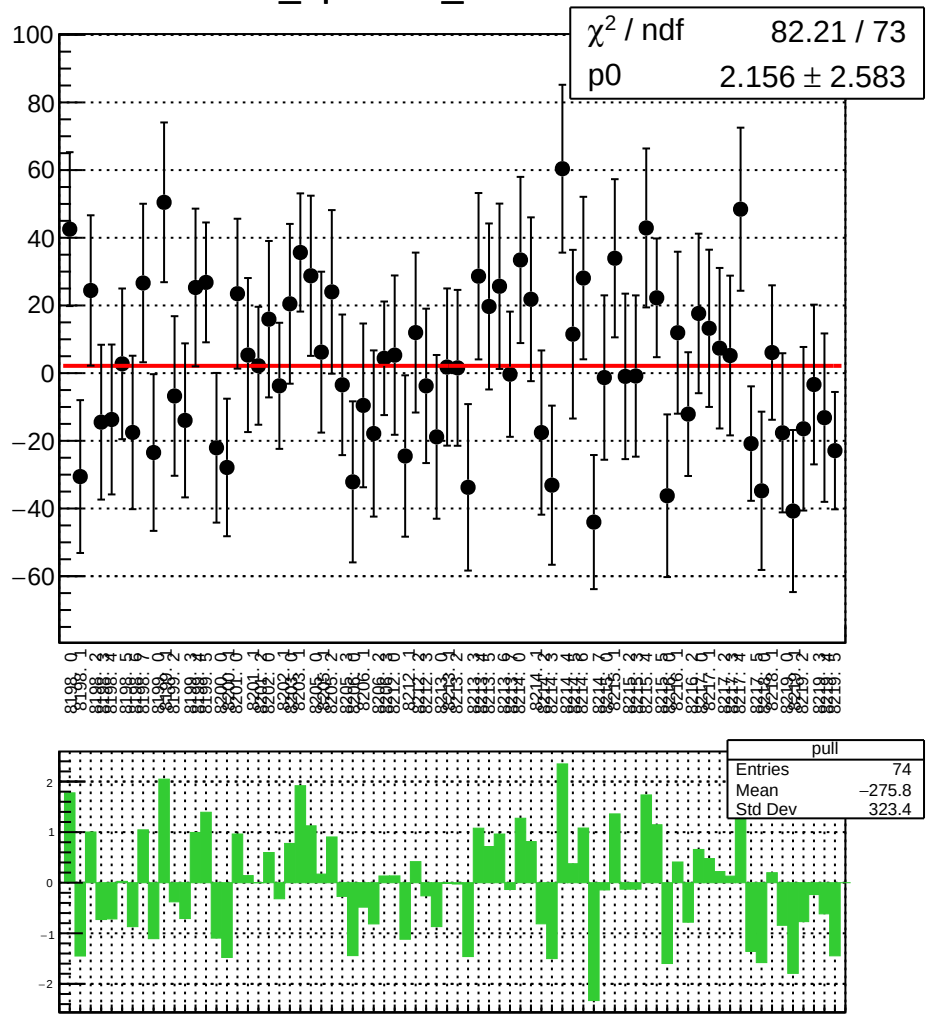

pull1D
Entries 74
Mean −0.001491
Std Dev 1.034
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

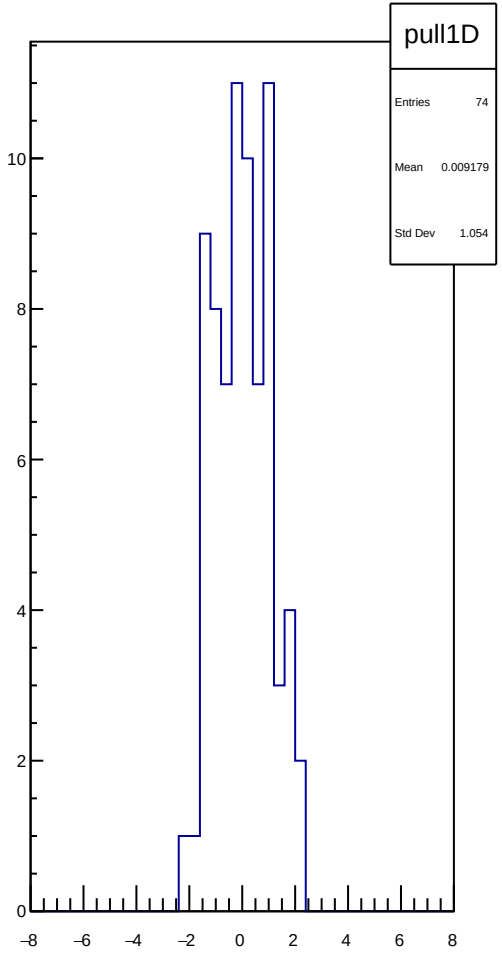

diff_bpm11Y_rms vs run
χ^2 / ndf 1708 / 73
p0 4206 ± 3.433
4600
4500
4400
4300
4200
4100
4000
3900

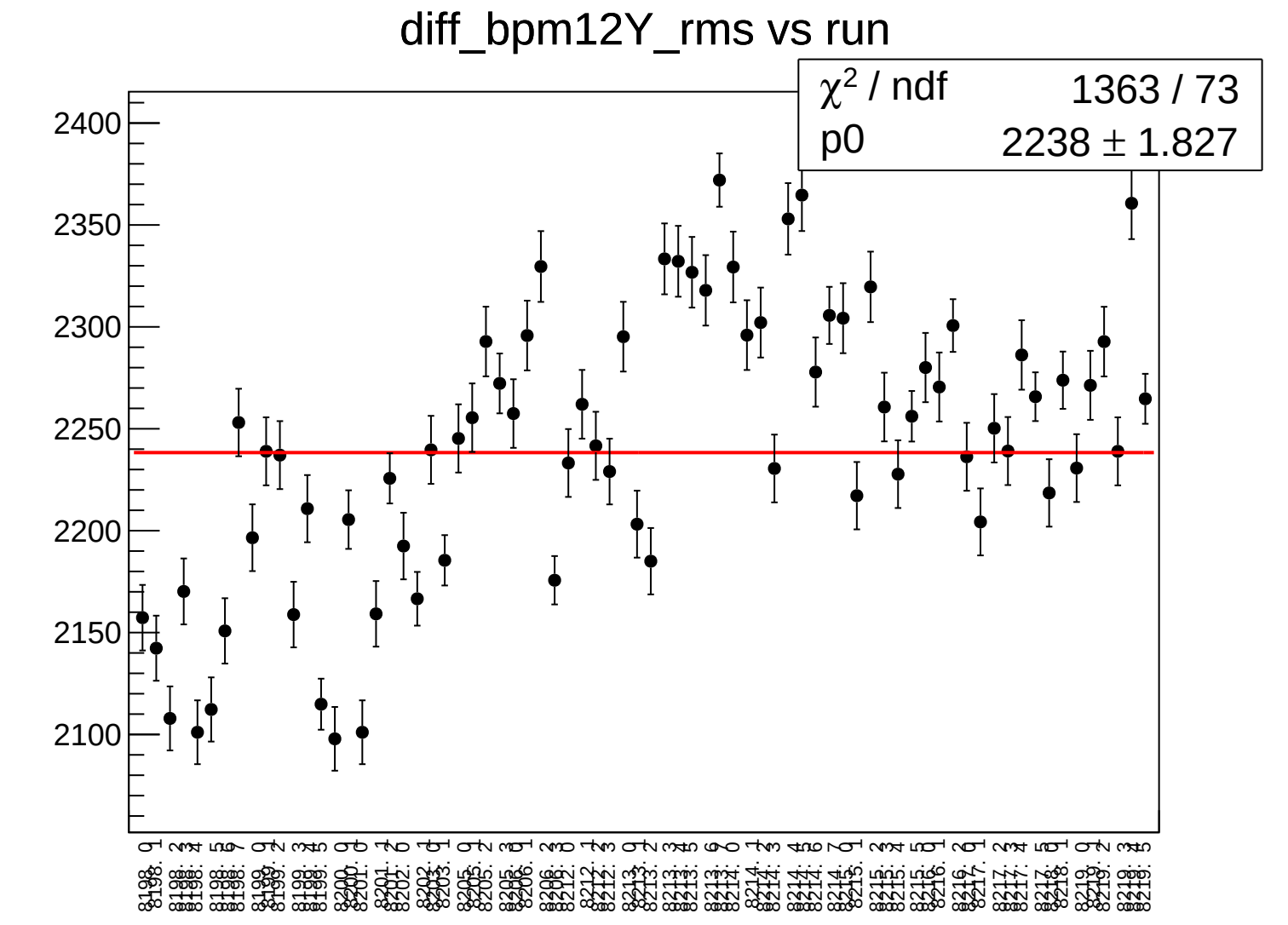

diff_bpm12X_mean vs run
χ² / ndf 82.45 / 73
p0 11.78 ± 51.94
pull
Entries 74
Mean 109.4
Std Dev 89.89

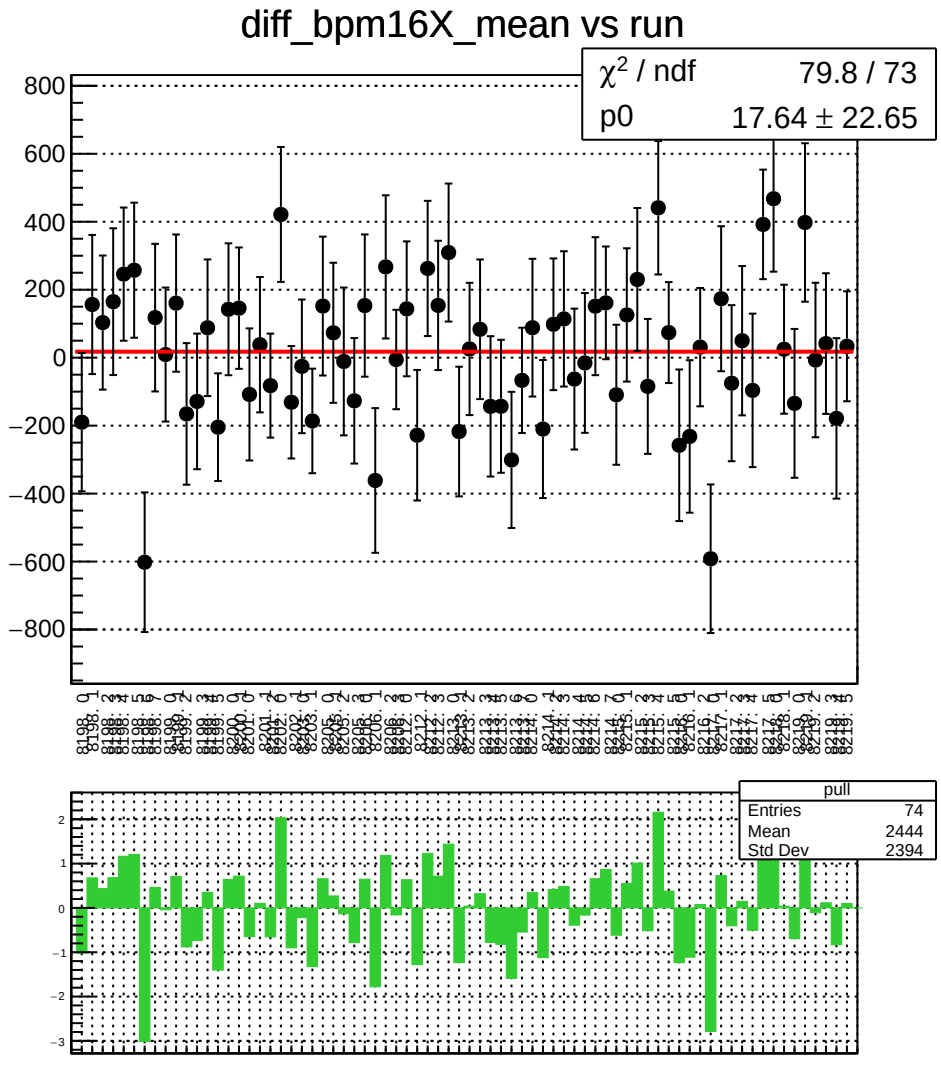

pull1D
Entries 74
Mean −0.005914
Std Dev 1.056

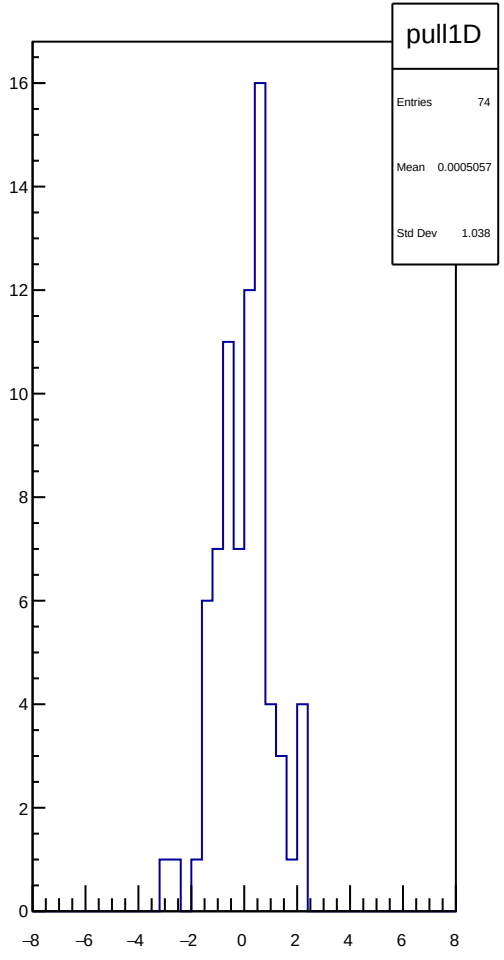

diff_bpm12X_rms vs run
χ² / ndf 3874 / 73
p0 4.497e+04 ± 36.73
50000
48000
46000
44000
42000
40000

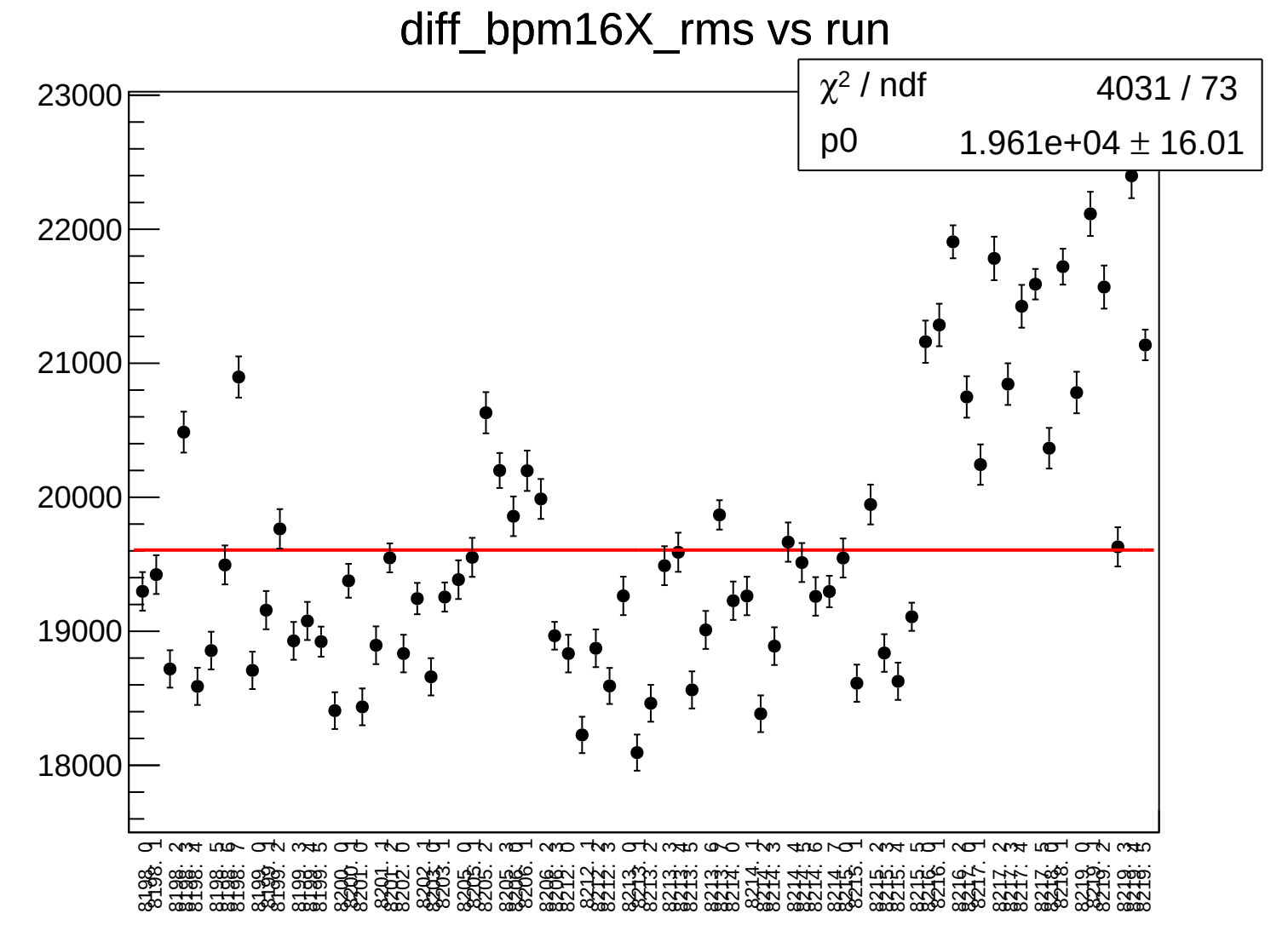

diff_bpm12Y_mean vs run
χ² / ndf 82.21 / 73
p0 2.156 ± 2.583
pull
Entries 74
Mean −275.8
Std Dev 323.4

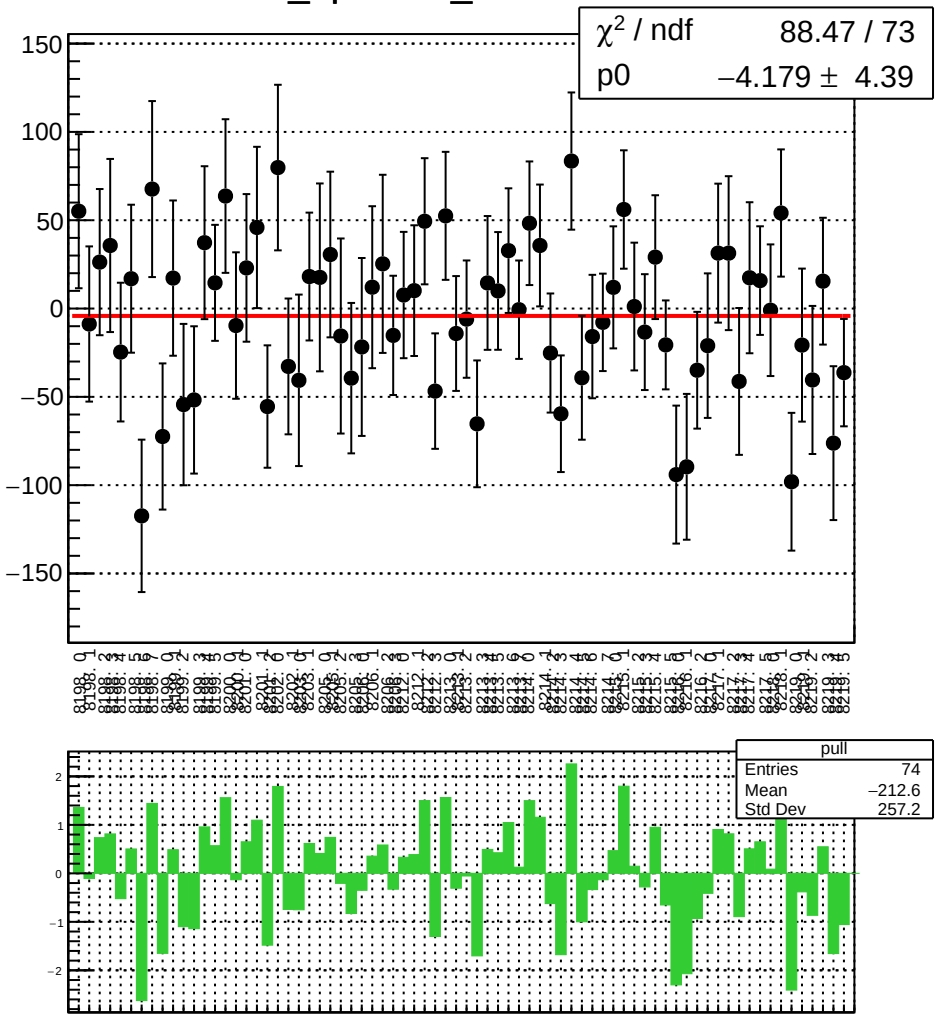

pull1D
Entries 74
Mean 0.009179
Std Dev 1.054

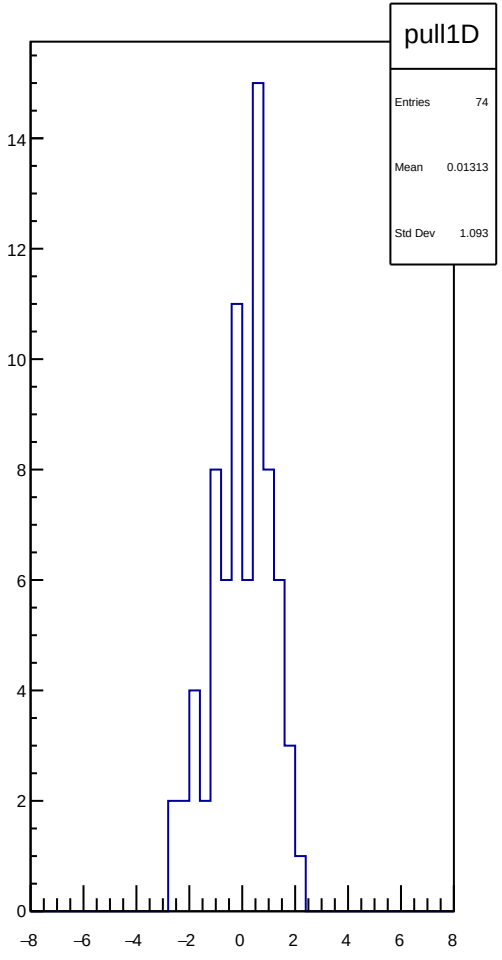

diff_bpm12Y_rms vs run
χ² / ndf 1363 / 73
p0 2238 ± 1.827
2400
2350
2300
2250
2200
2150
2100

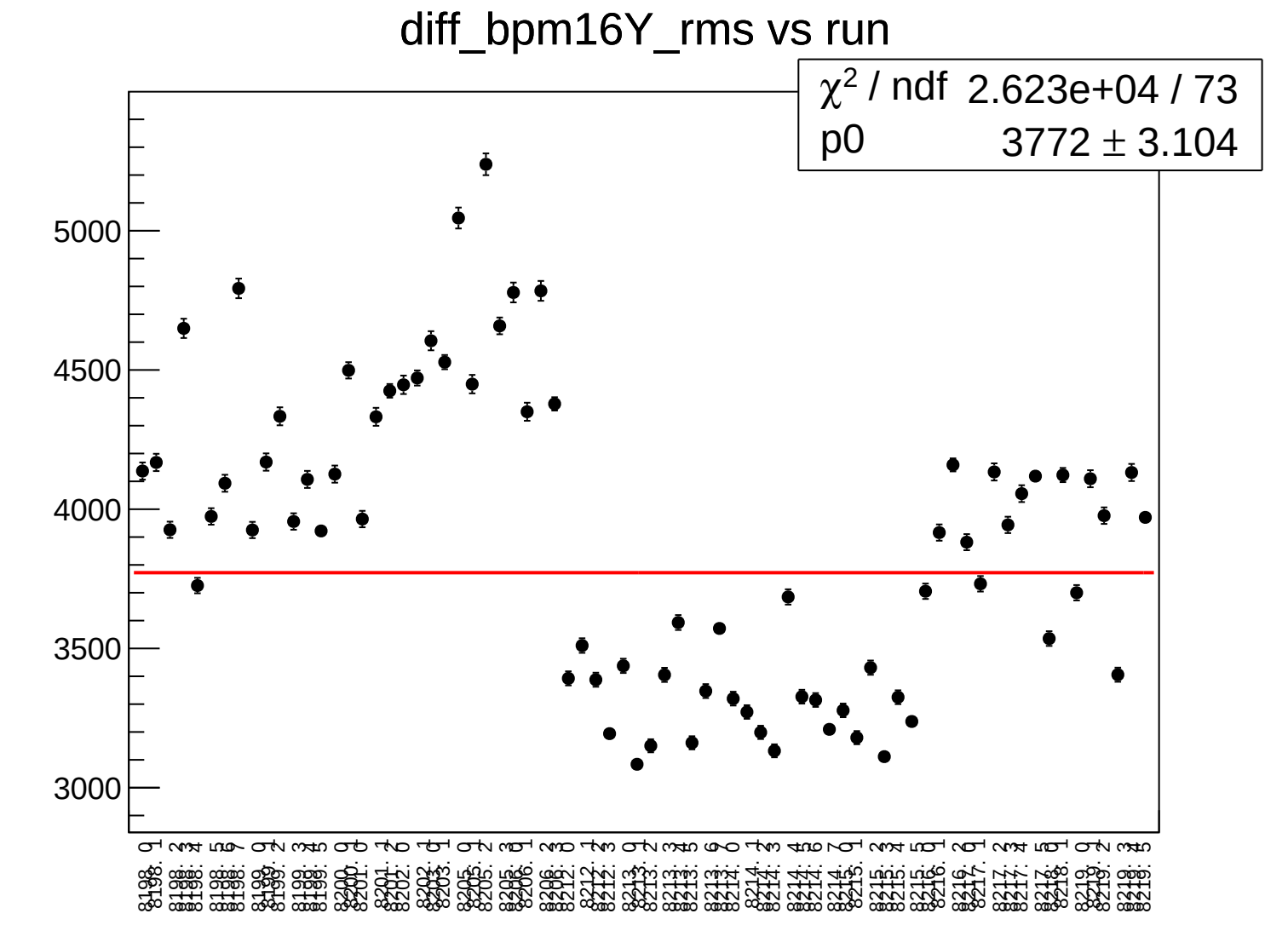

diff_bpm16X_mean vs run
χ^2 / ndf 79.8 / 73
p0 17.64 ± 22.65
pull
Entries 74
Mean 2444
Std Dev 2394

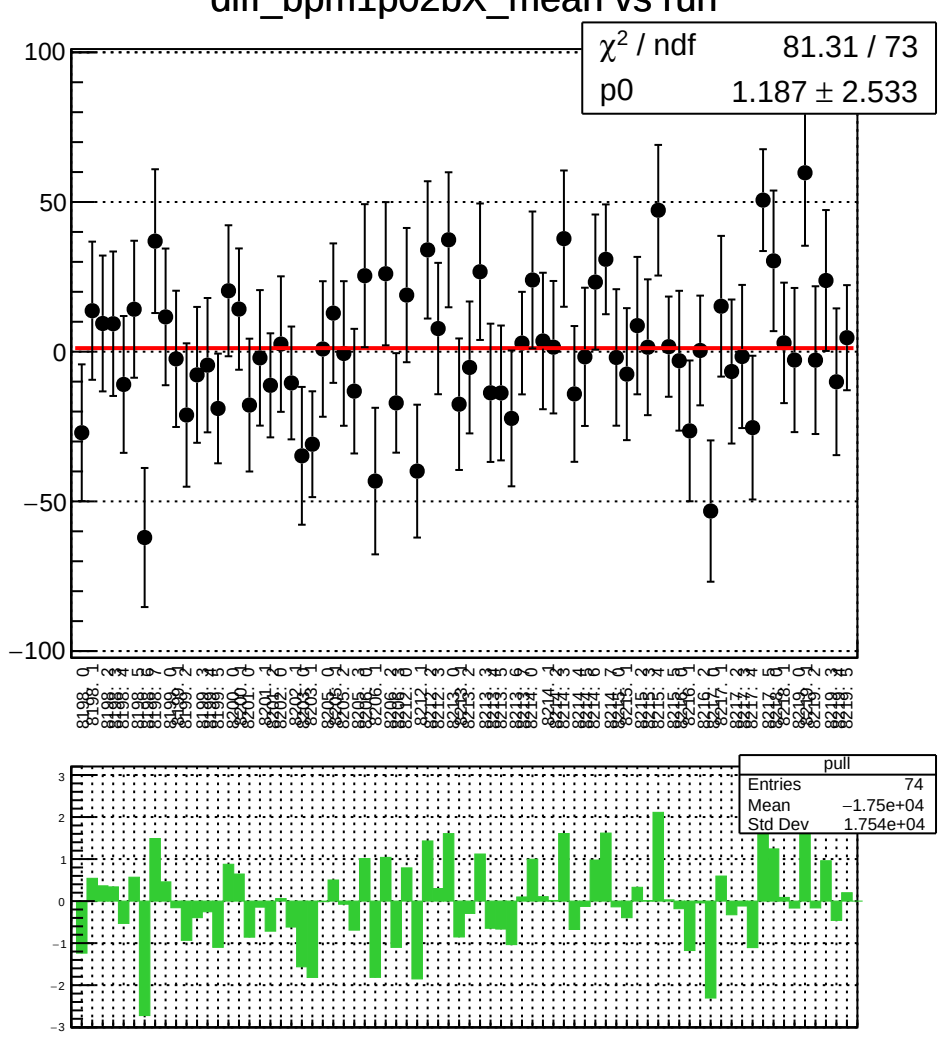

pull1D
Entries 74
Mean 0.0005057
Std Dev 1.038

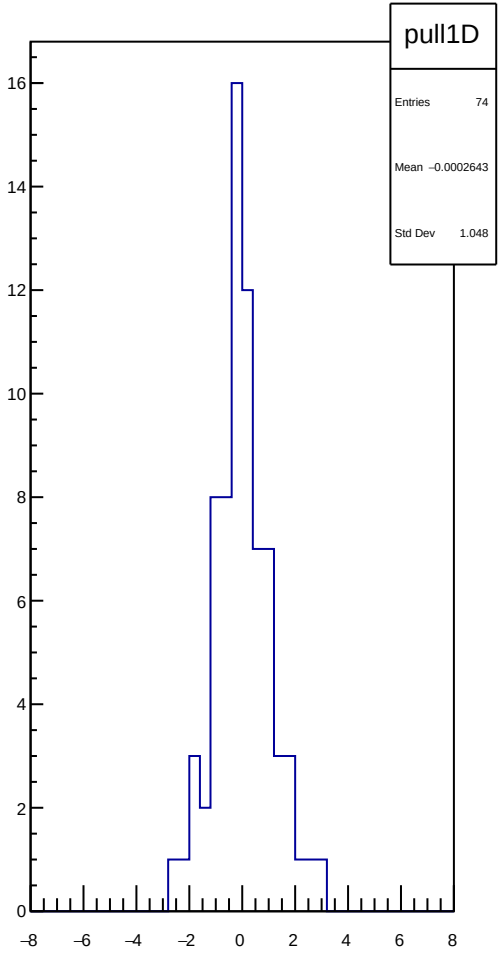

diff_bpm16X_rms vs run
χ² / ndf 4031 / 73
p0 1.961e+04 ± 16.01
23000
22000
21000
20000
19000
18000

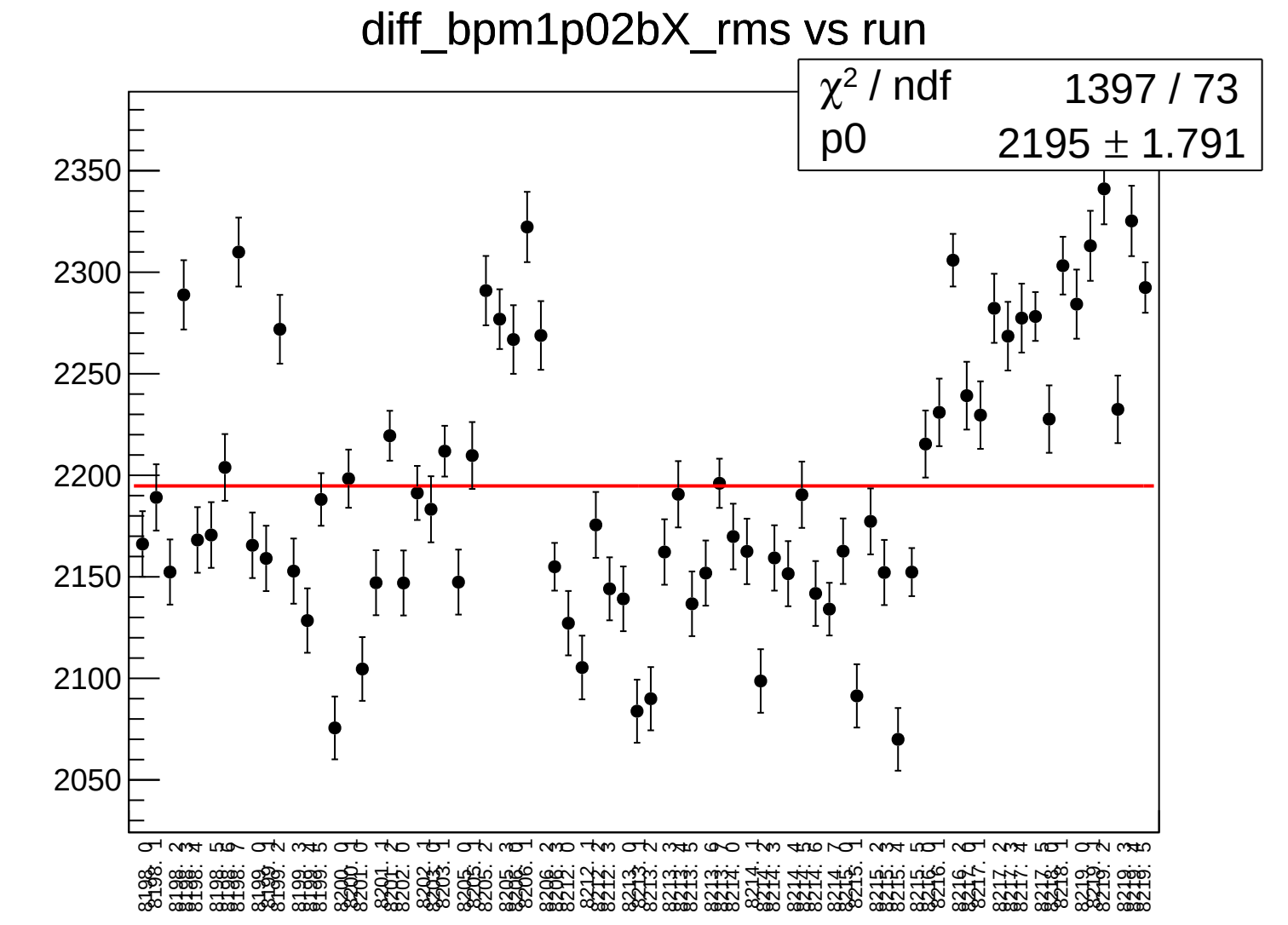

diff_bpm16Y_mean vs run
χ² / ndf 88.47 / 73
p0 −4.179 ± 4.39
pull
Entries 74
Mean −212.6
Std Dev 257.2

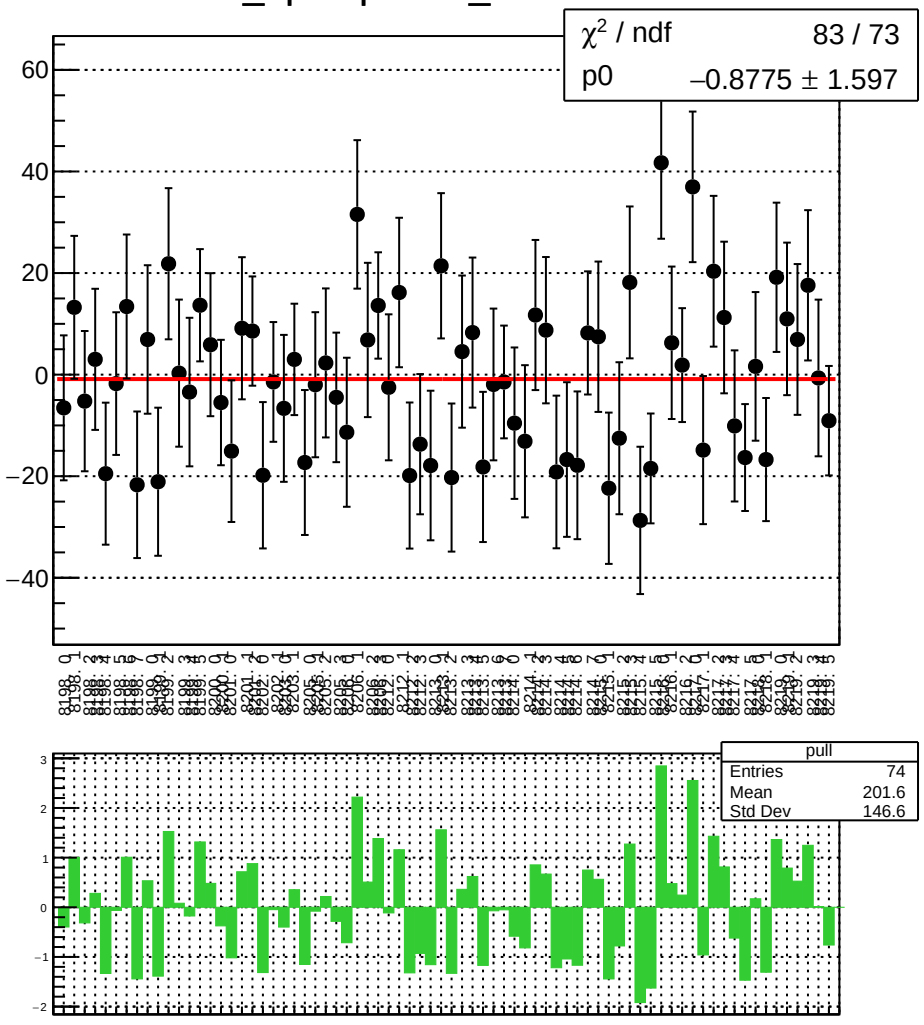

pull1D
Entries 74
Mean 0.01313
Std Dev 1.093

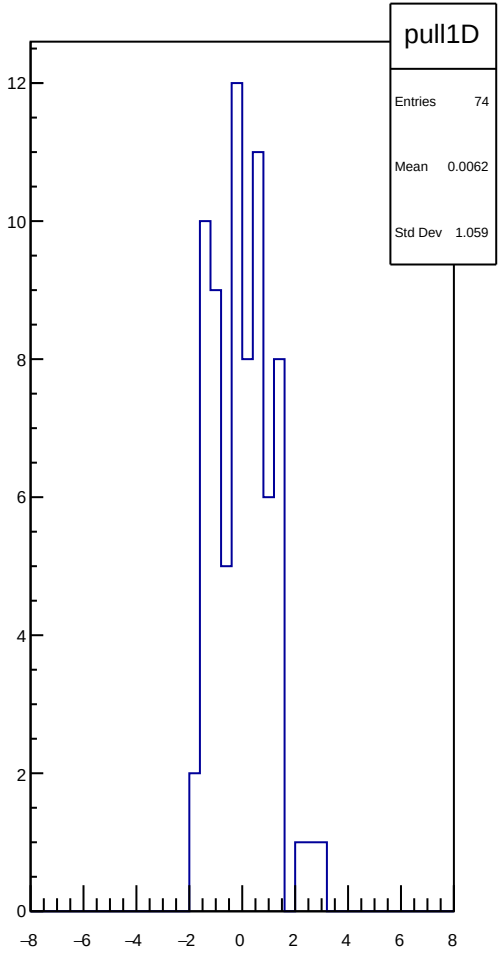

diff_bpm16Y_rms vs run
χ² / ndf 2.623e+04 / 73
p0 3772 ± 3.104
5000
4500
4000
3500
3000

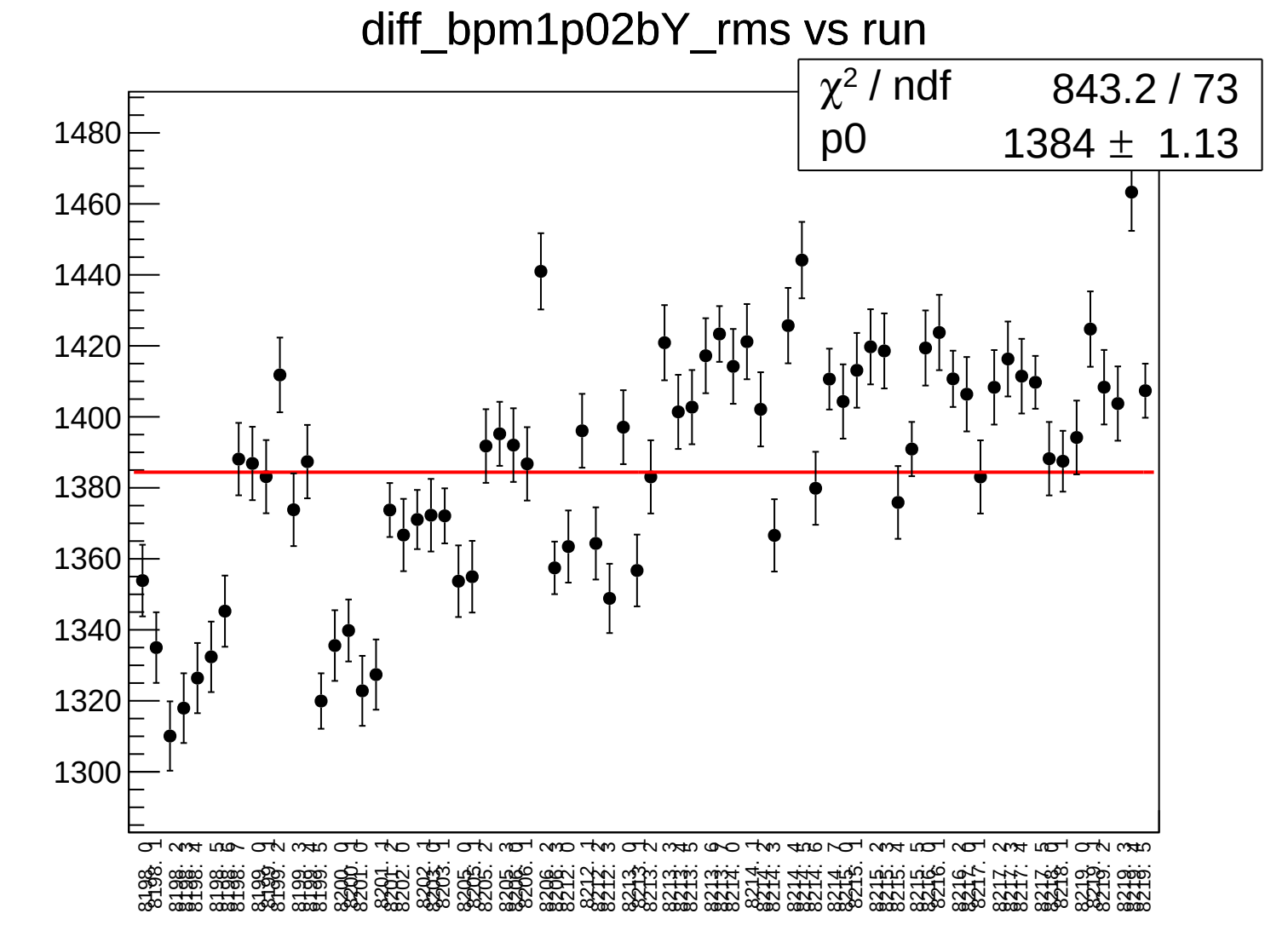

diff_bpm1p02bX_mean vs run
χ^2 / ndf 81.31 / 73
p0 1.187 ± 2.533
pull
Entries 74
Mean −1.75e+04
Std Dev 1.754e+04

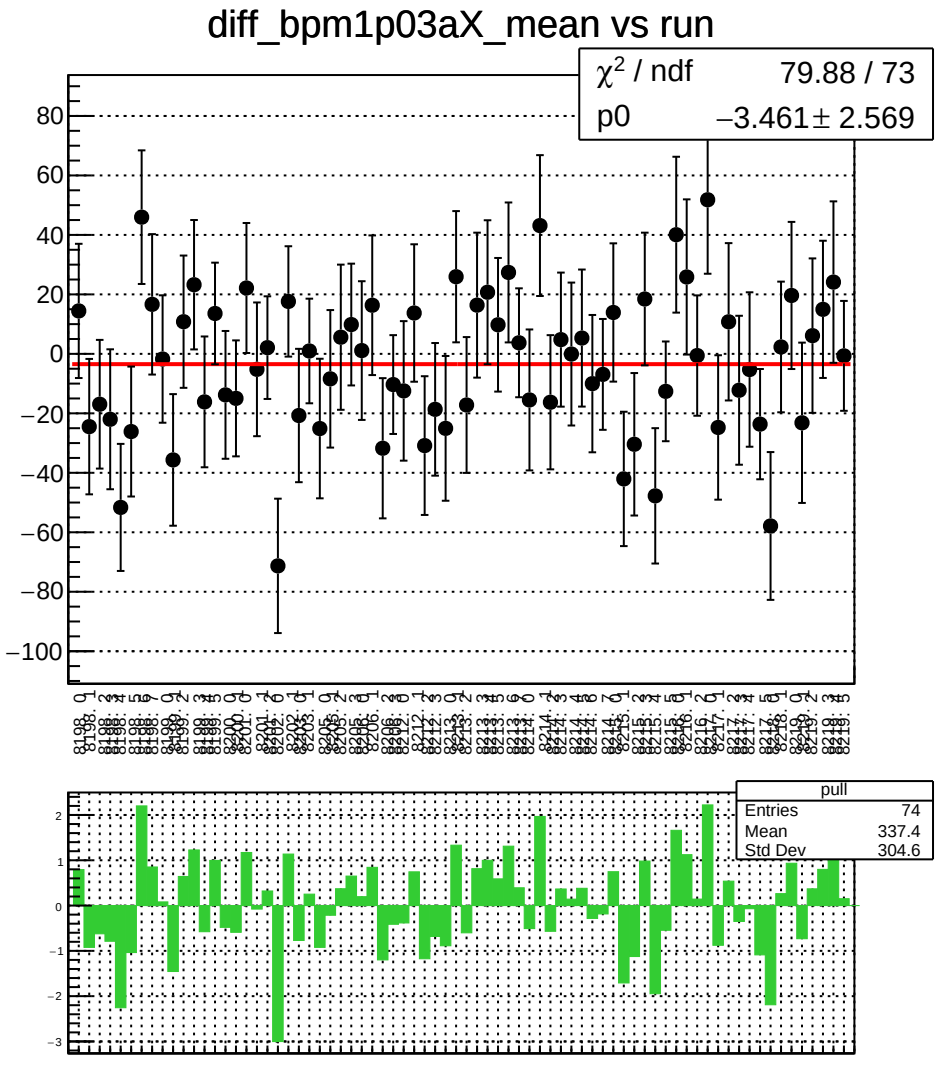

pull1D
Entries 74
Mean −0.0002643
Std Dev 1.048

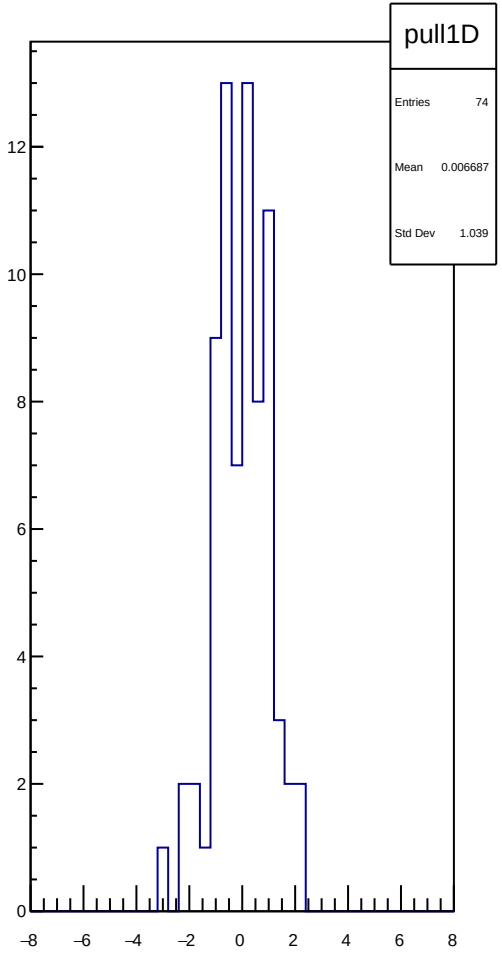

diff_bpm1p02bX_rms vs run
χ² / ndf 1397 / 73
p0 2195 ± 1.791
2350
2300
2250
2200
2150
2100
2050

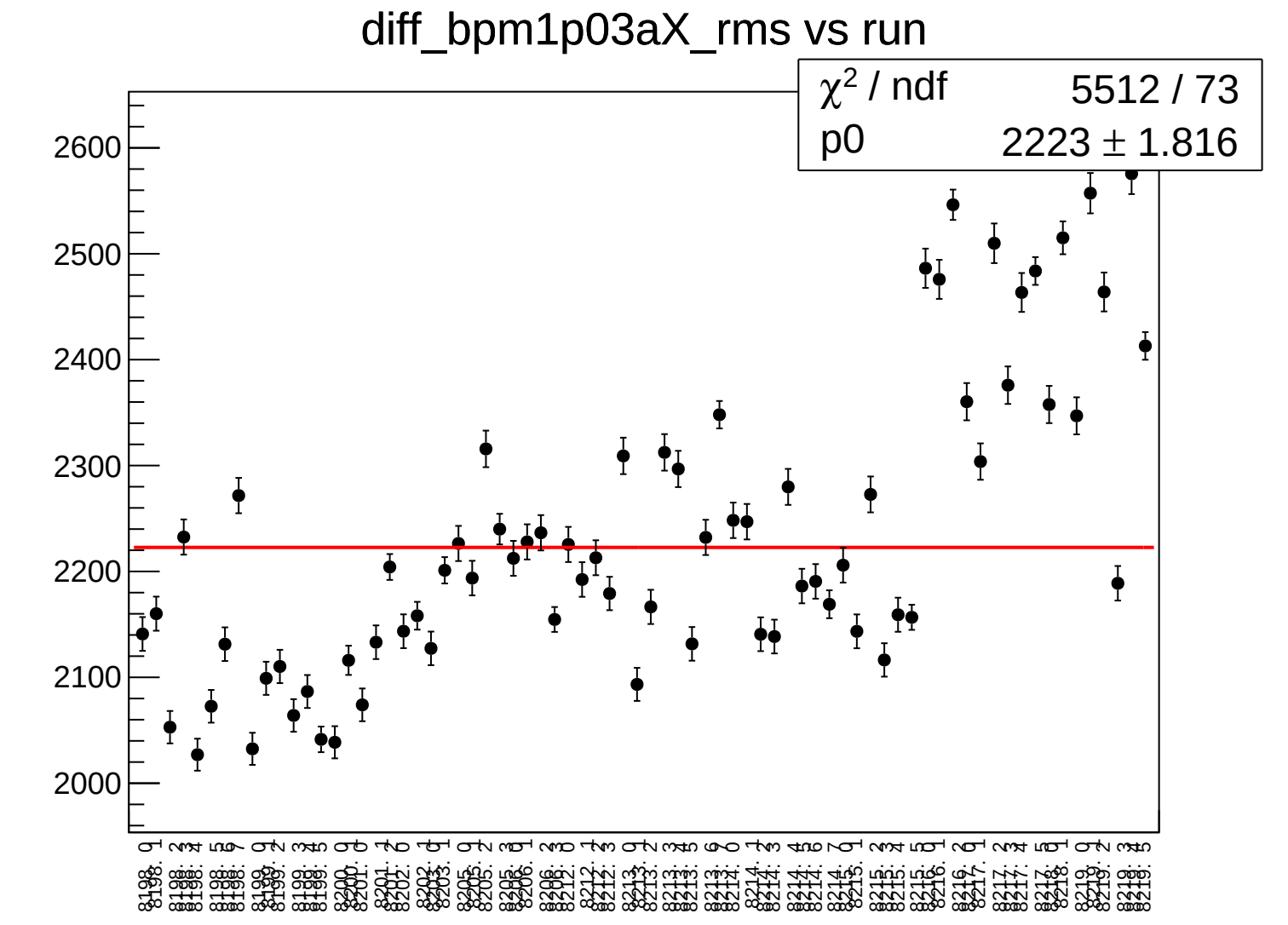

diff_bpm1p02bY_mean vs run
χ² / ndf 83 / 73
p0 −0.8775 ± 1.597
pull
Entries 74
Mean 201.6
Std Dev 146.6

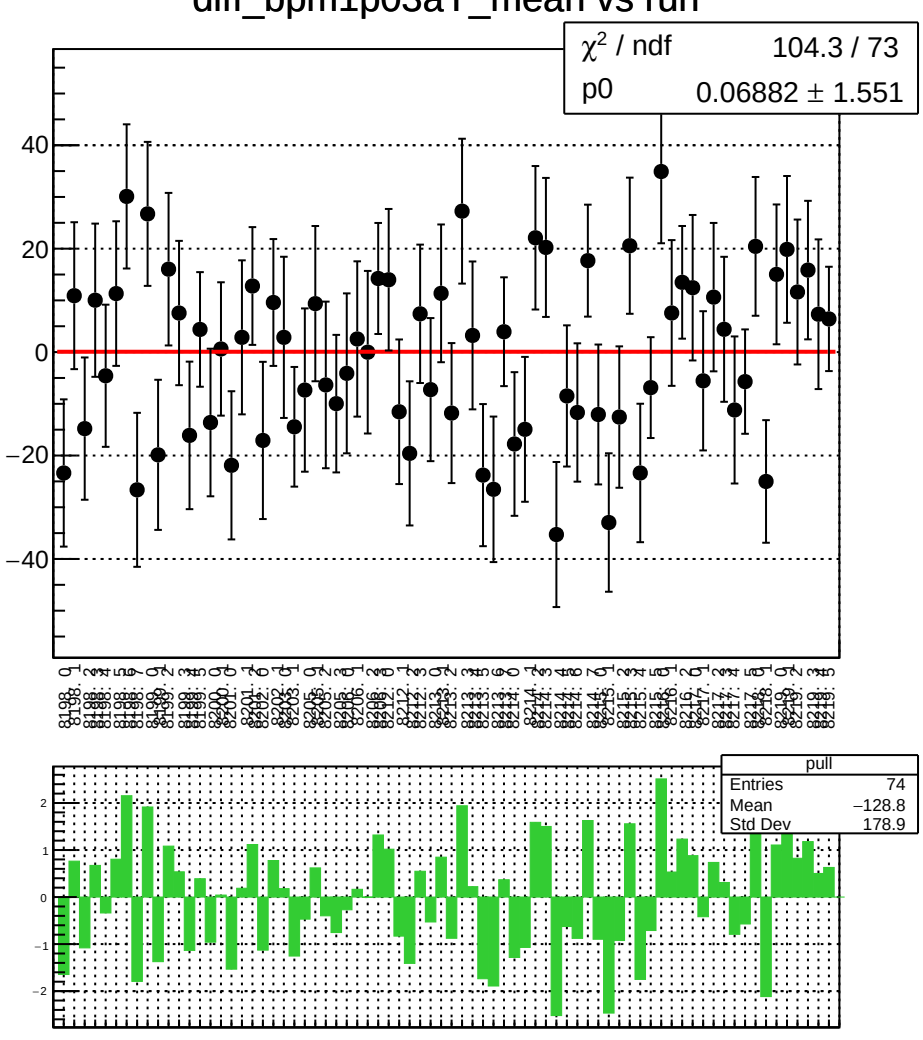

pull1D
Entries 74
Mean 0.0062
Std Dev 1.059

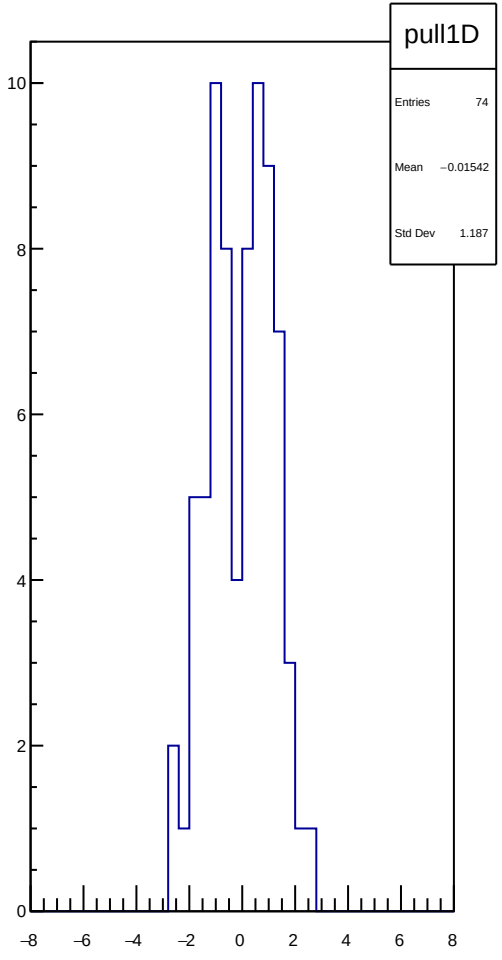

diff_bpm1p02bY_rms vs run
χ² / ndf 843.2 / 73
p0 1384 ± 1.13
1480
1460
1440
1420
1400
1380
1360
1340
1320
1300

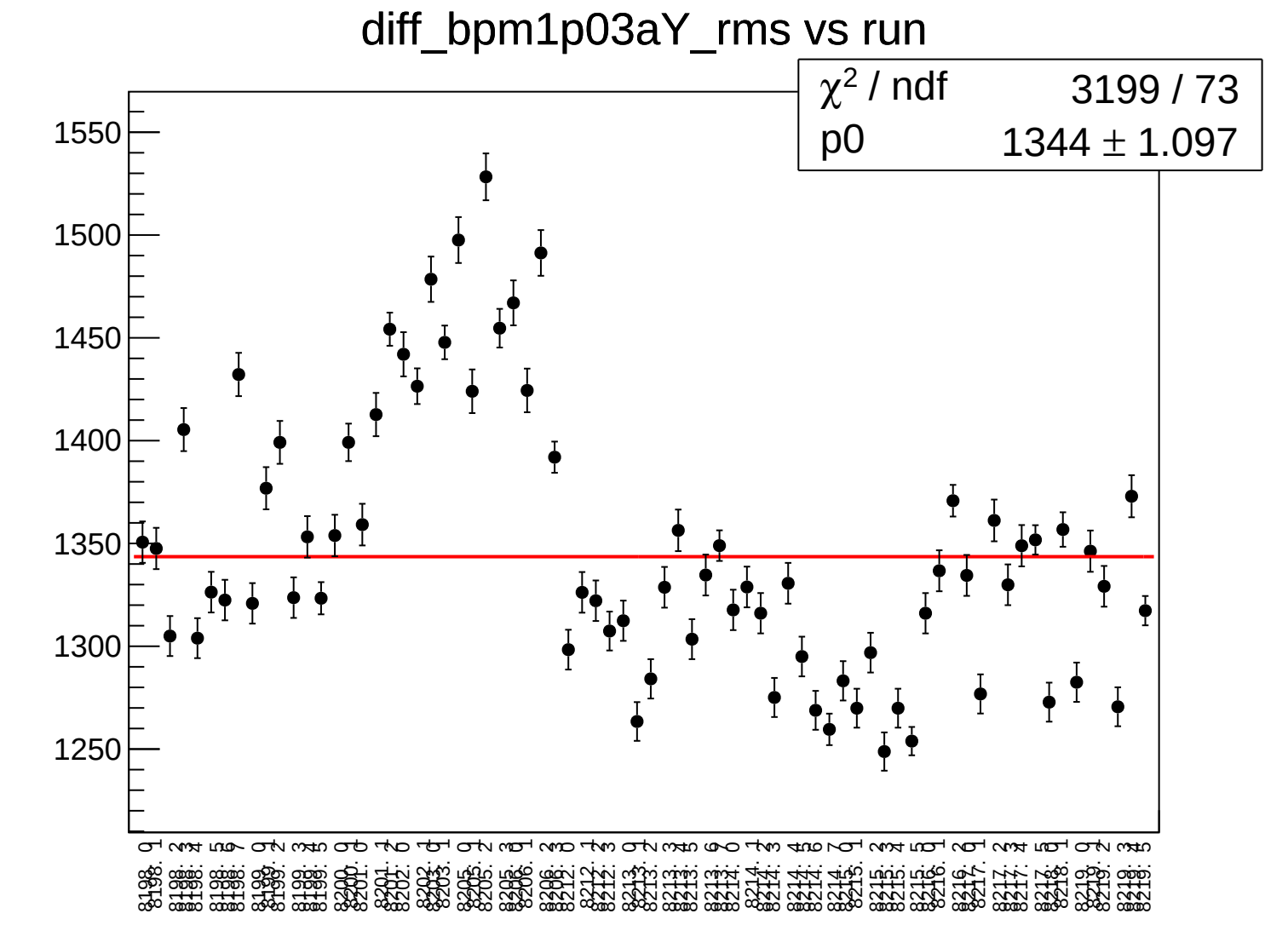

diff_bpm1p03aX_mean vs run
χ² / ndf 79.88 / 73
p0 −3.461 ± 2.569
pull
Entries 74
Mean 337.4
Std Dev 304.6

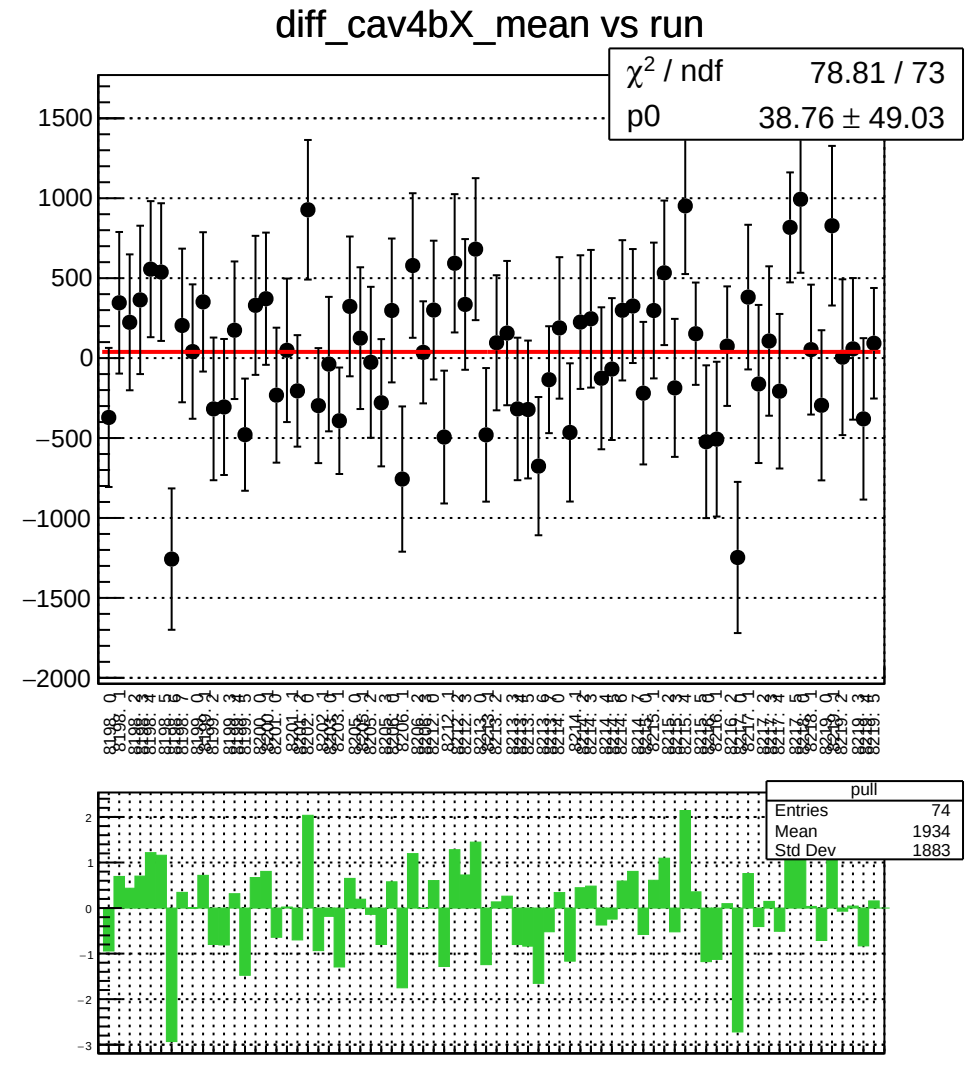

pull1D
Entries 74
Mean 0.006687
Std Dev 1.039

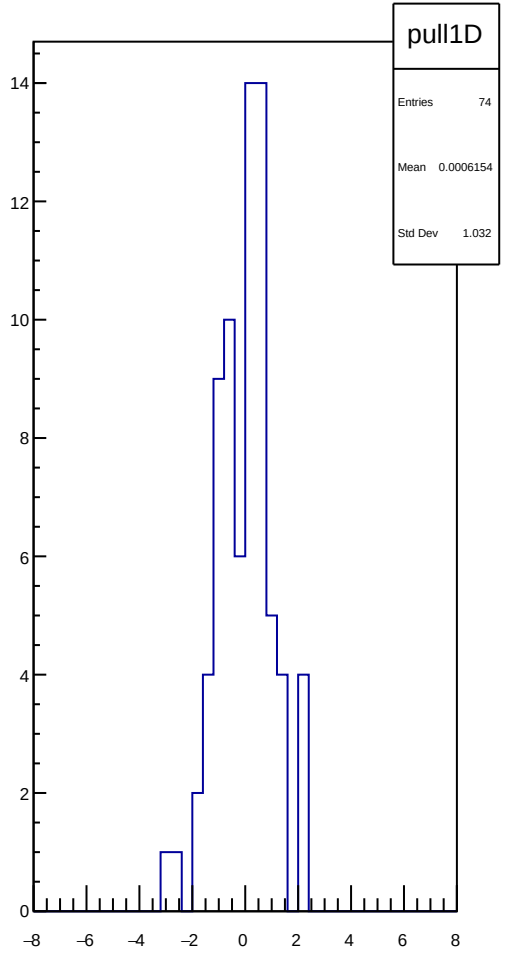

diff_bpm1p03aX_rms vs run
χ² / ndf 5512 / 73
p0 2223 ± 1.816
2600
2500
2400
2300
2200
2100
2000

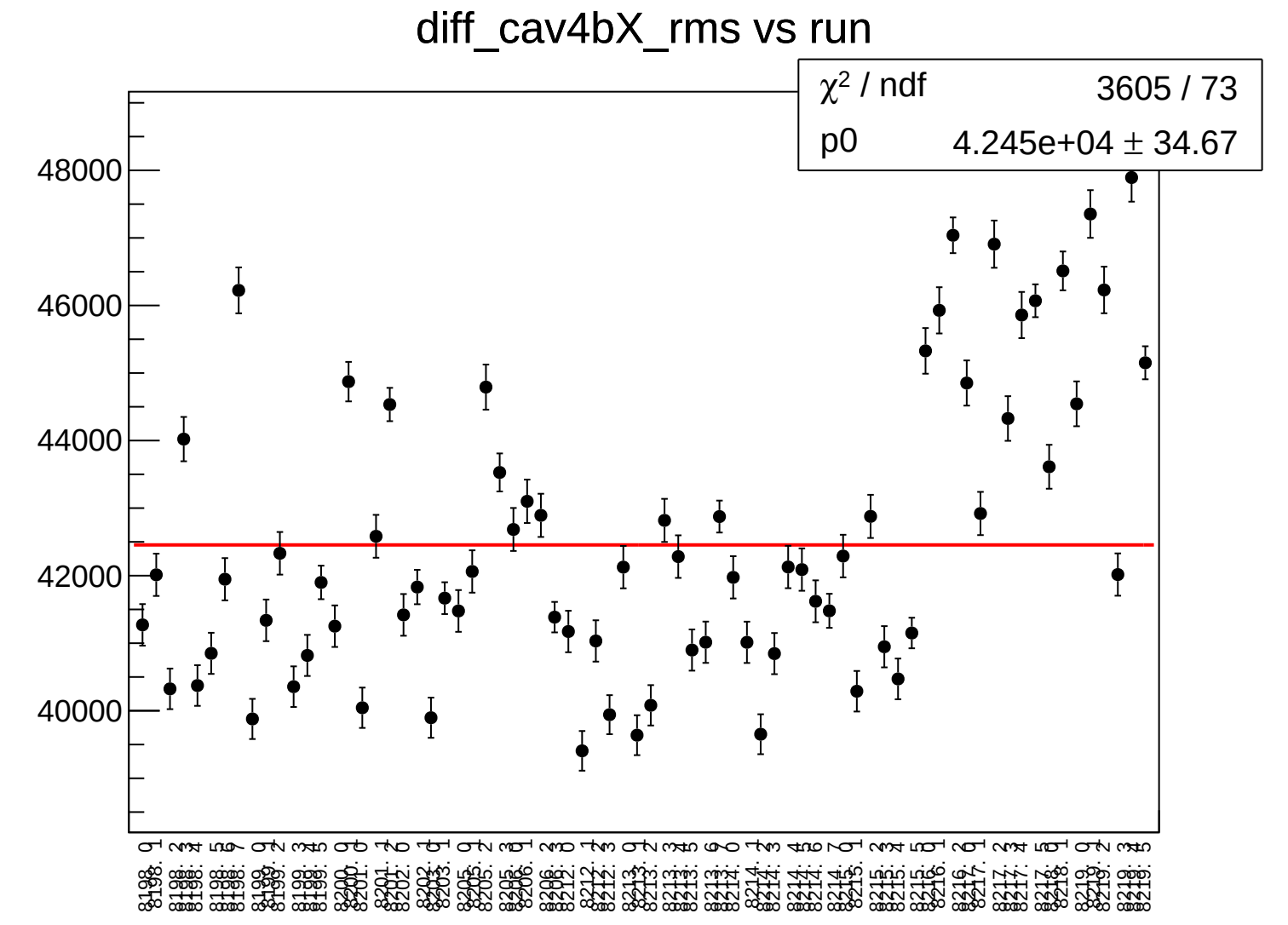

diff_bpm1p03aY_mean vs run
χ² / ndf 104.3 / 73
p0 0.06882 ± 1.551
pull
Entries 74
Mean −128.8
Std Dev 178.9

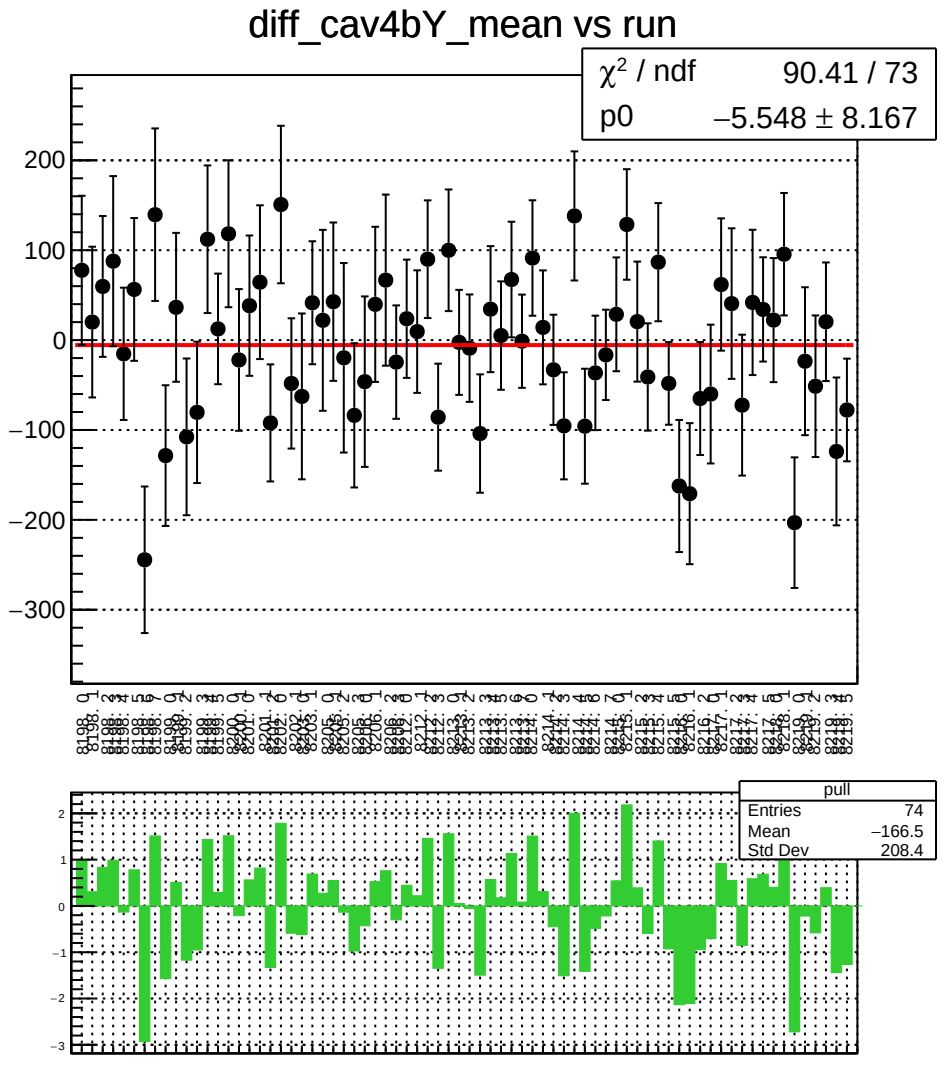

pull1D
Entries 74
Mean −0.01542
Std Dev 1.187

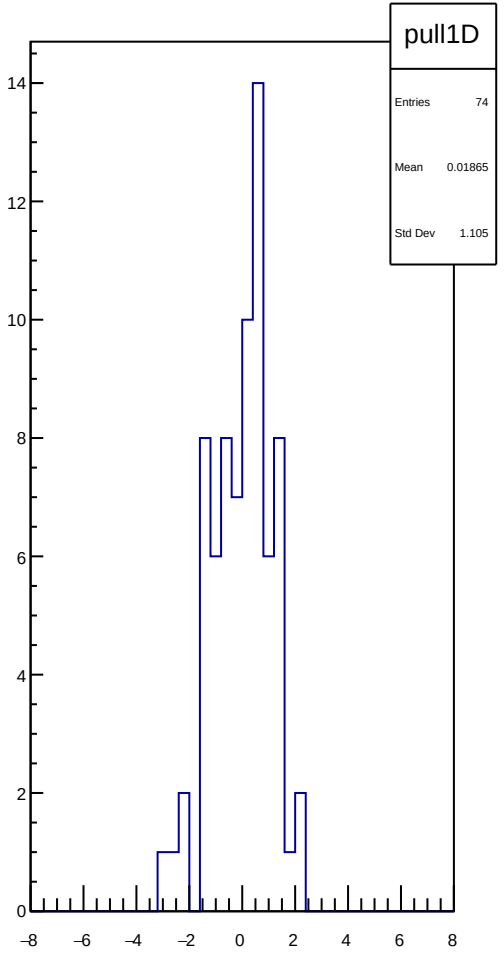

diff_bpm1p03aY_rms vs run
χ² / ndf 3199 / 73
p0 1344 ± 1.097
1550
1500
1450
1400
1350
1300
1250

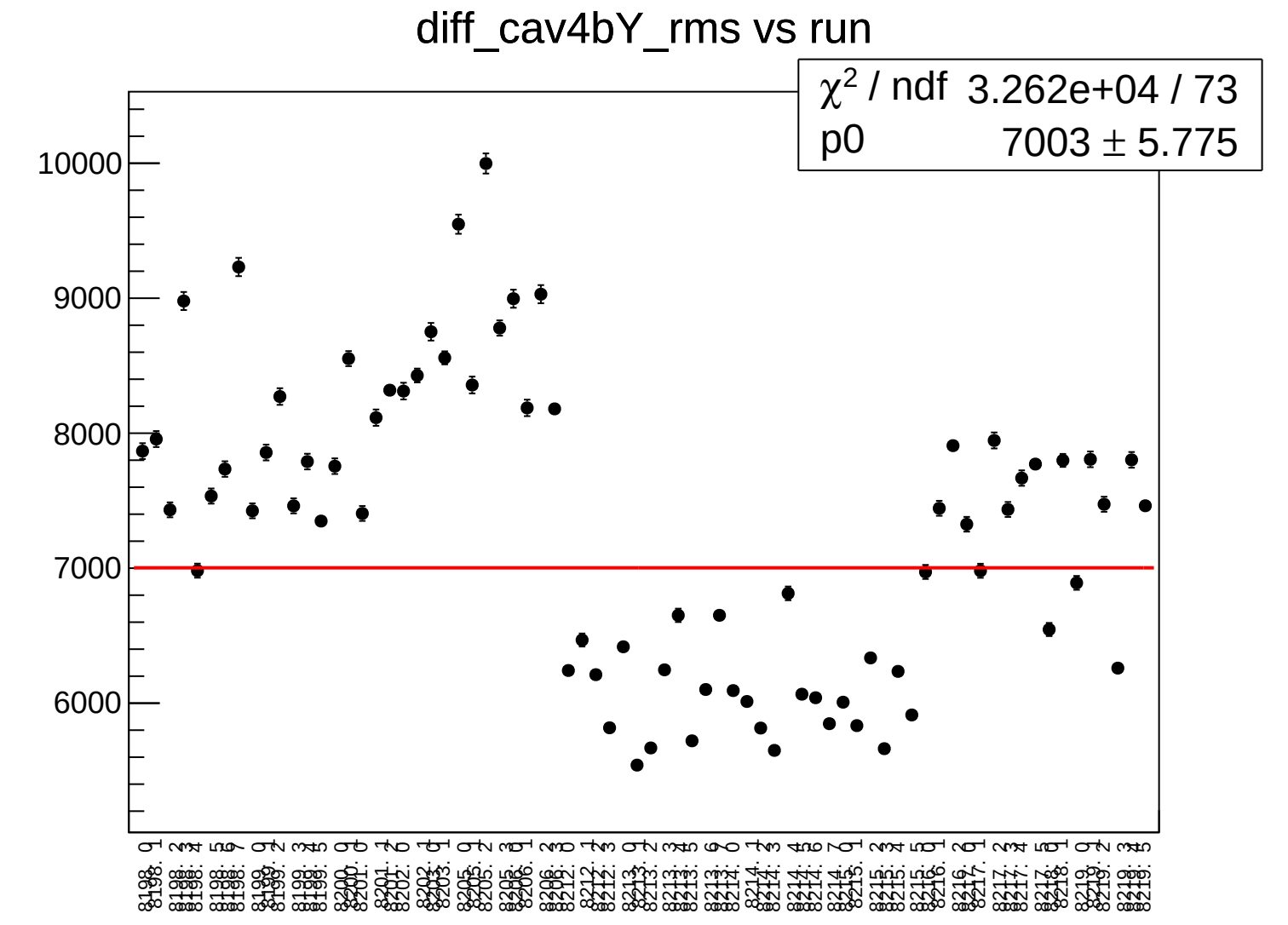

diff_cav4bX_mean vs run
χ² / ndf 78.81 / 73
p0 38.76 ± 49.03
pull
Entries 74
Mean 1934
Std Dev 1883

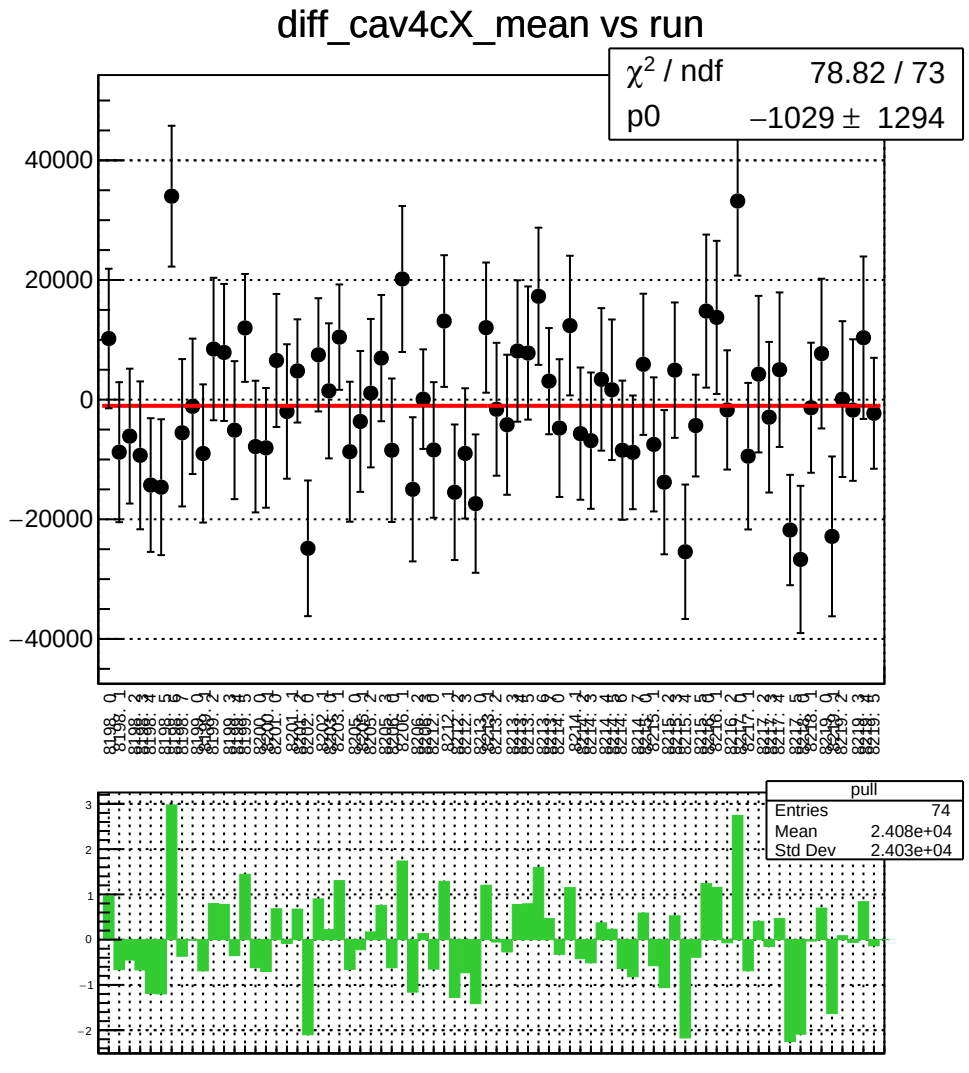

pull1D
Entries 74
Mean 0.0006154
Std Dev 1.032

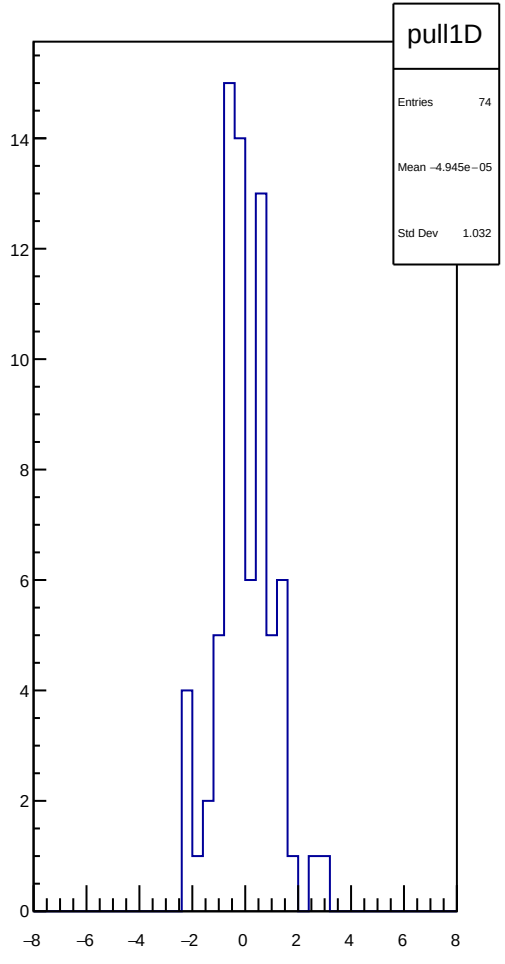

diff_cav4bX_rms vs run
χ² / ndf 3605 / 73
p0 4.245e+04 ± 34.67
48000
46000
44000
42000
40000

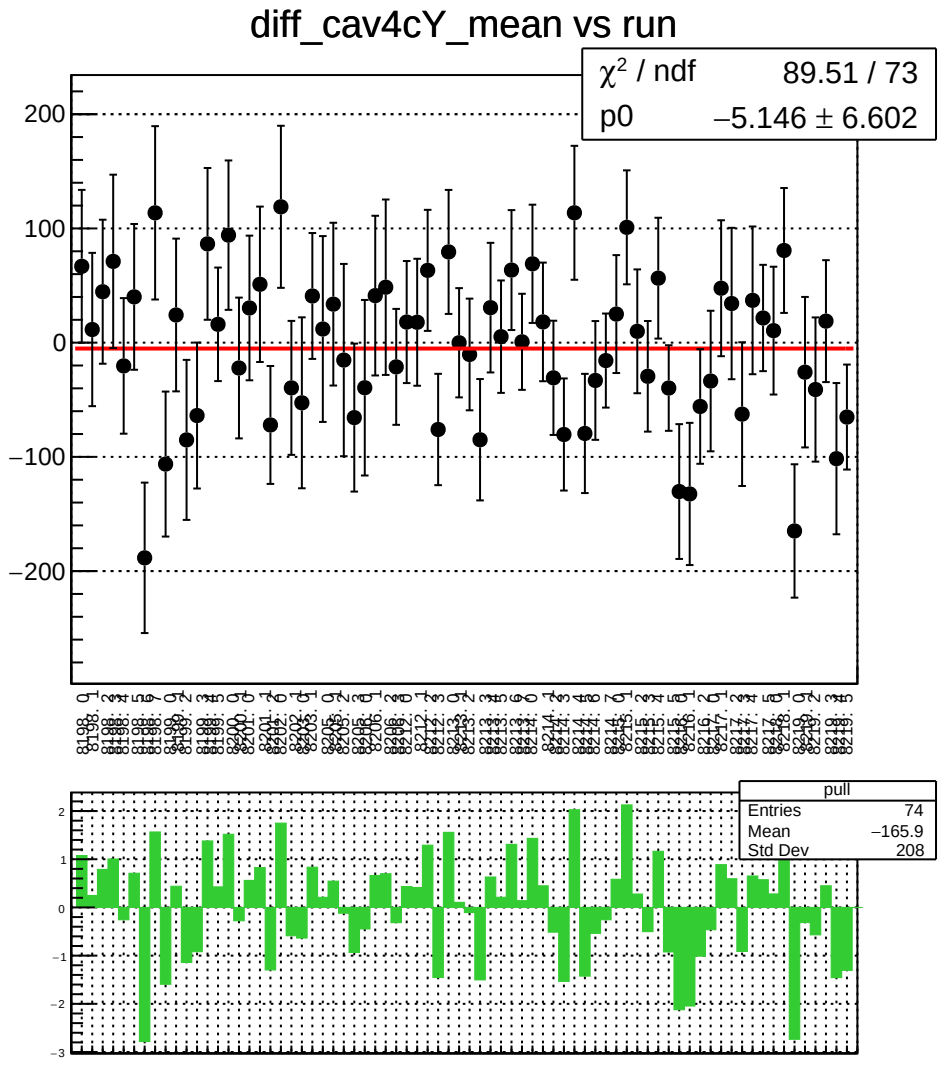

diff_cav4bY_mean vs run
χ² / ndf 90.41 / 73
p0 −5.548 ± 8.167
pull
Entries 74
Mean −166.5
Std Dev 208.4

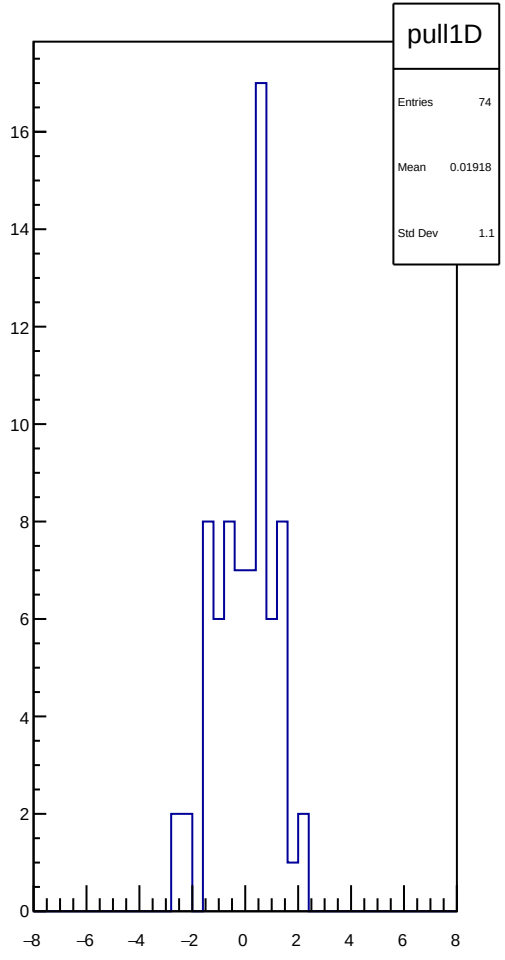

pull1D
Entries 74
Mean 0.01865
Std Dev 1.105

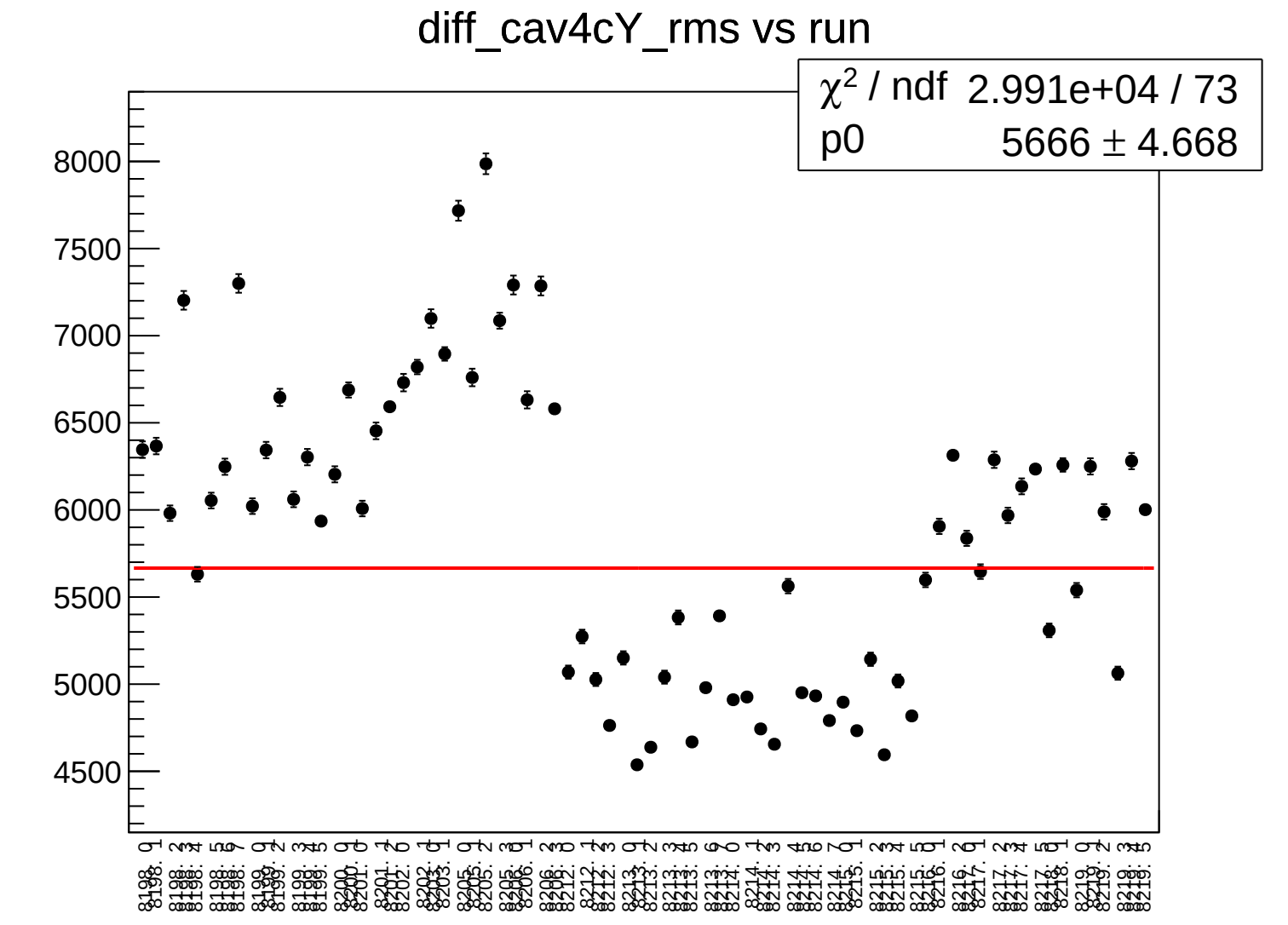

diff_cav4bY_rms vs run
χ² / ndf 3.262e+04 / 73
p0 7003 ± 5.775
10000
9000
8000
7000
6000

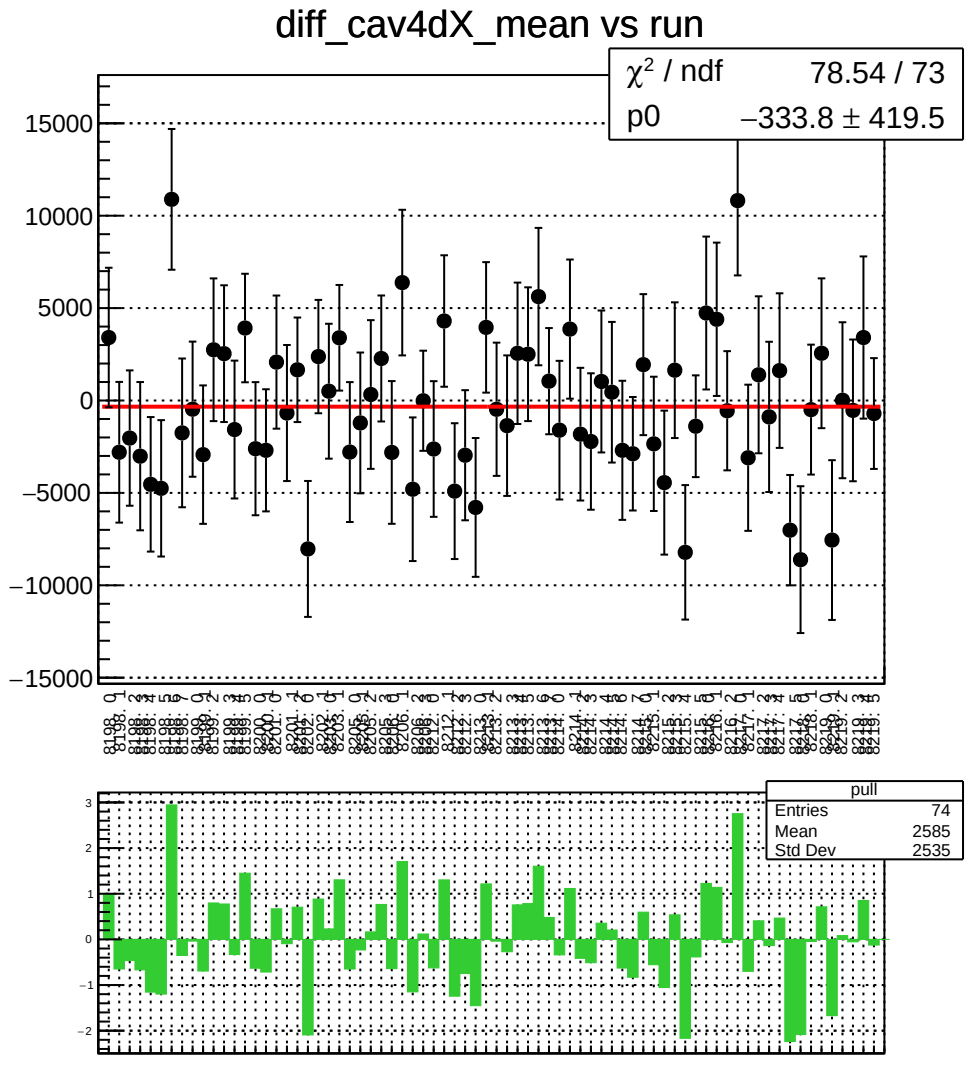

diff_cav4cX_mean vs run
χ² / ndf 78.82 / 73
p0 −1029 ± 1294
40000
20000
0
−20000
−40000
pull
Entries 74
Mean 2.408e+04
Std Dev 2.403e+04
3
2
1
0
−1
−2

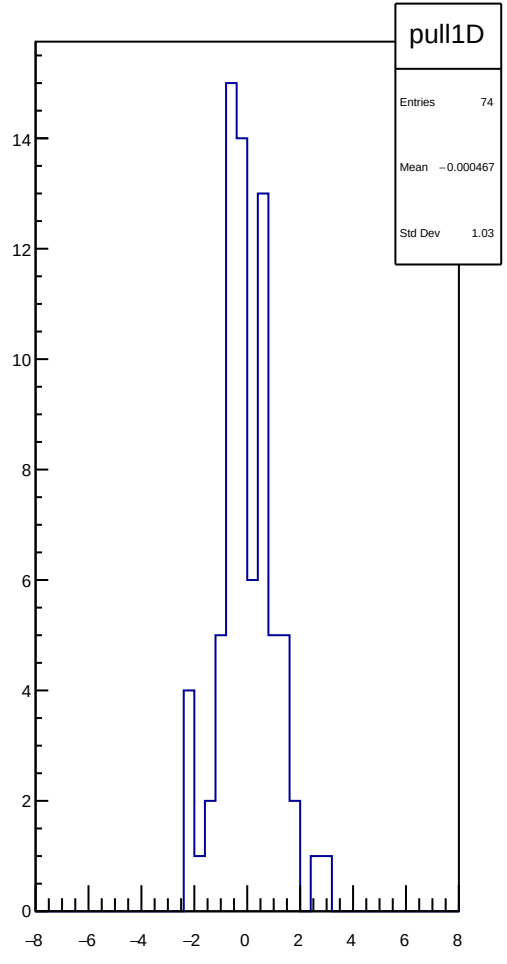

pull1D
Entries 74
Mean −4.945e−05
Std Dev 1.032
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

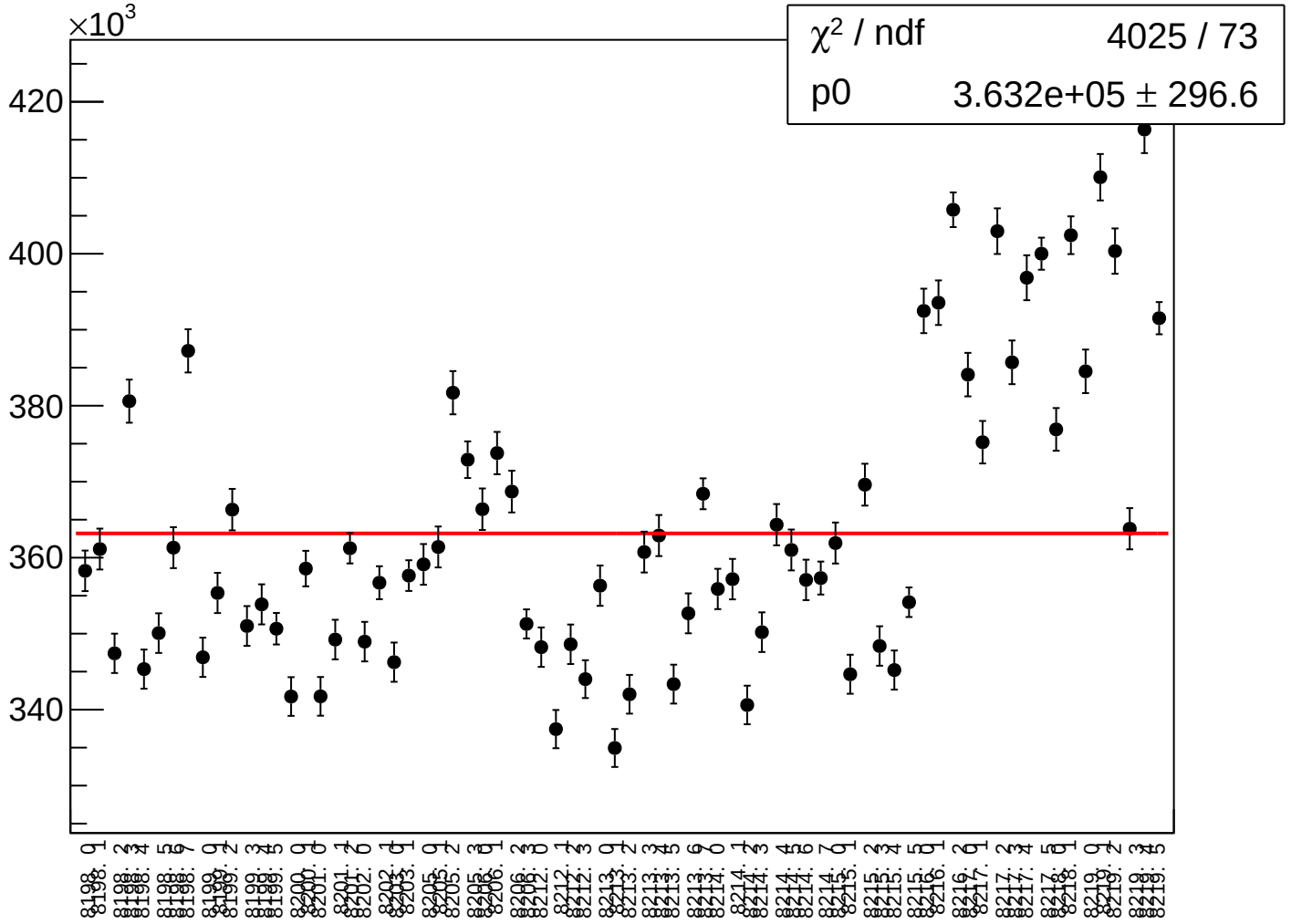

diff_cav4cY_mean vs run
χ² / ndf 89.51 / 73
p0 −5.146 ± 6.602
pull
Entries 74
Mean −165.9
Std Dev 208

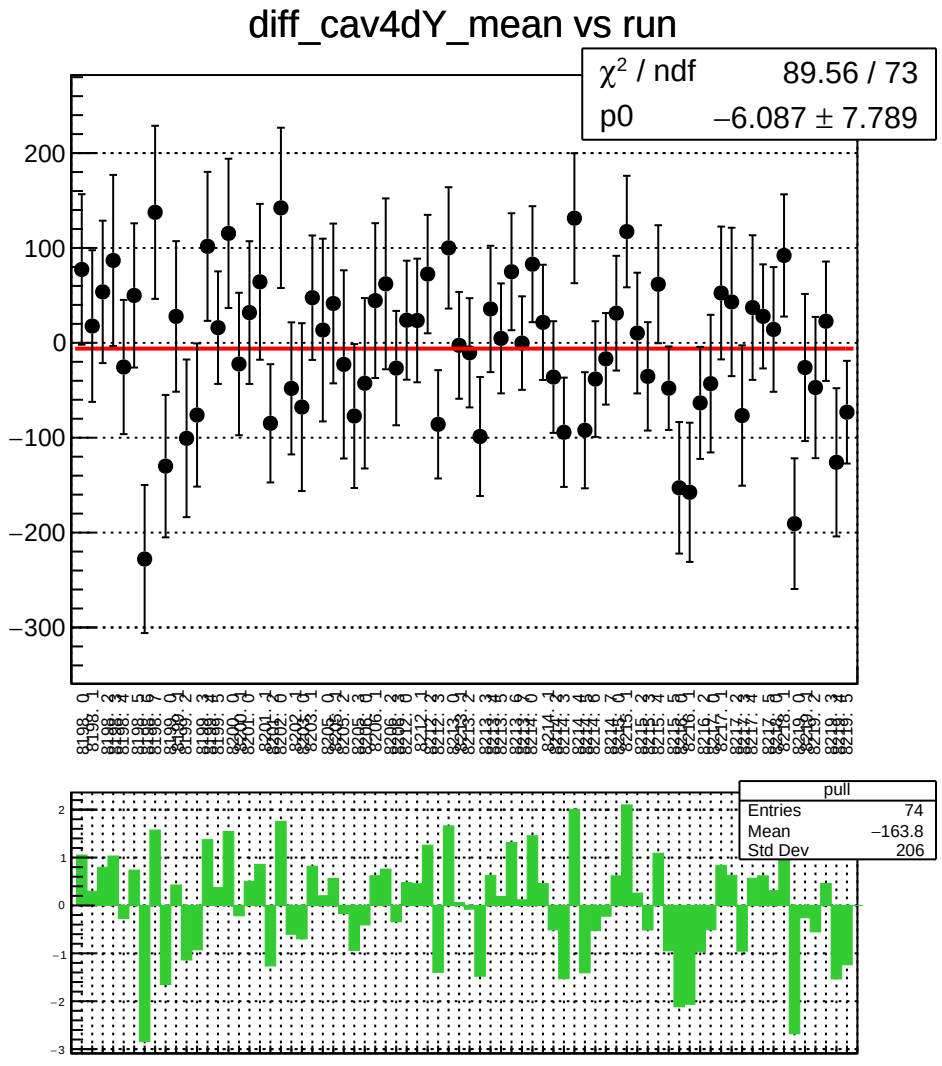

pull1D
Entries 74
Mean 0.01918
Std Dev 1.1

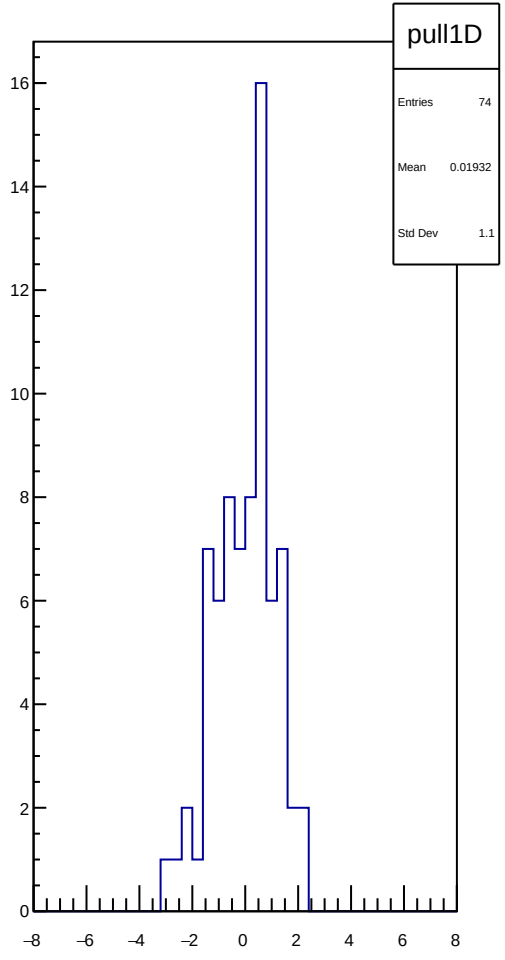

diff_cav4cY_rms vs run
χ² / ndf 2.991e+04 / 73
p0 5666 ± 4.668
8000
7500
7000
6500
6000
5500
5000
4500

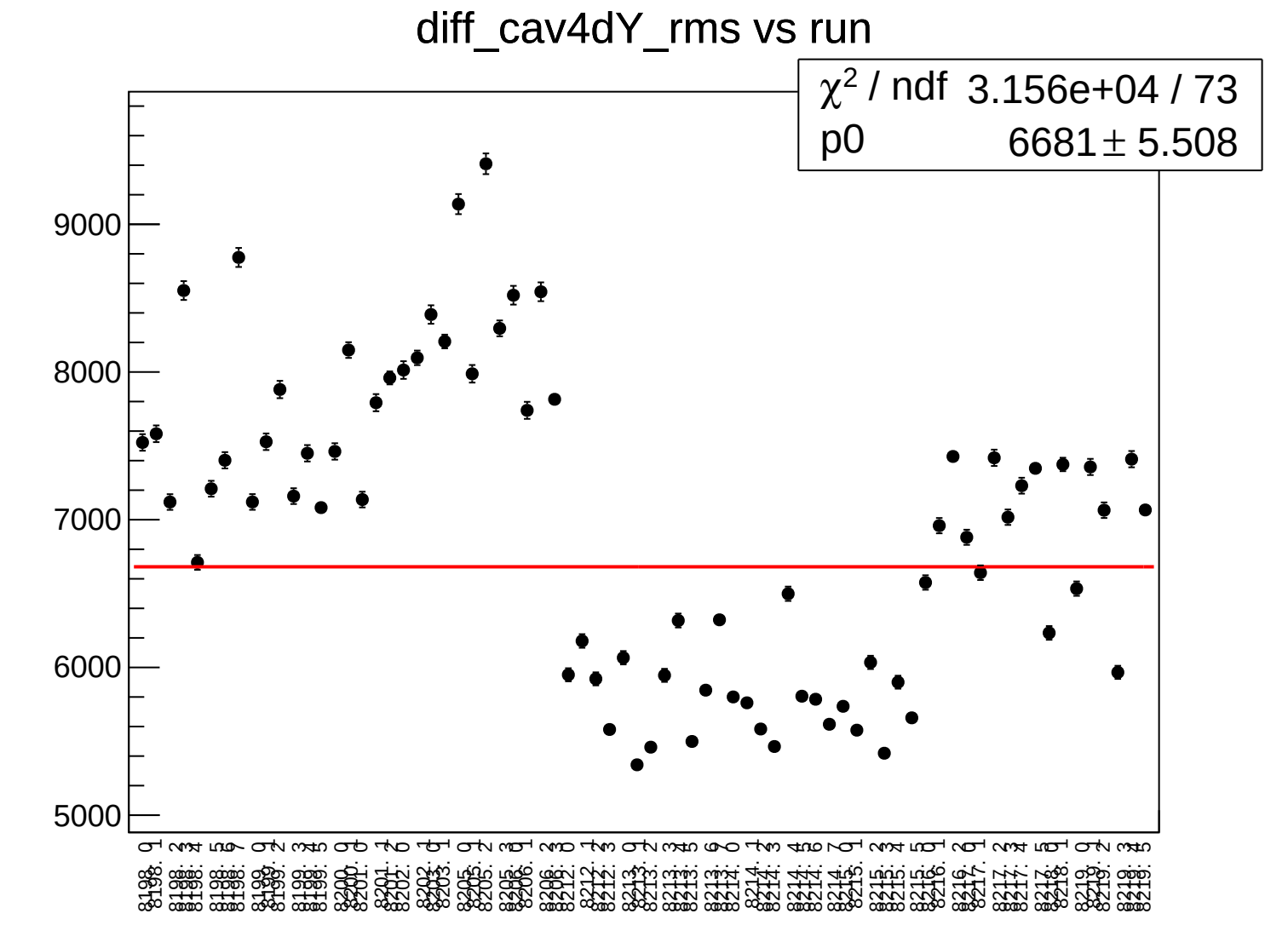

diff_cav4dX_mean vs run
χ² / ndf 78.54 / 73
p0 −333.8 ± 419.5
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 2585
Std Dev 2535
3
2
1
0
−1
−2

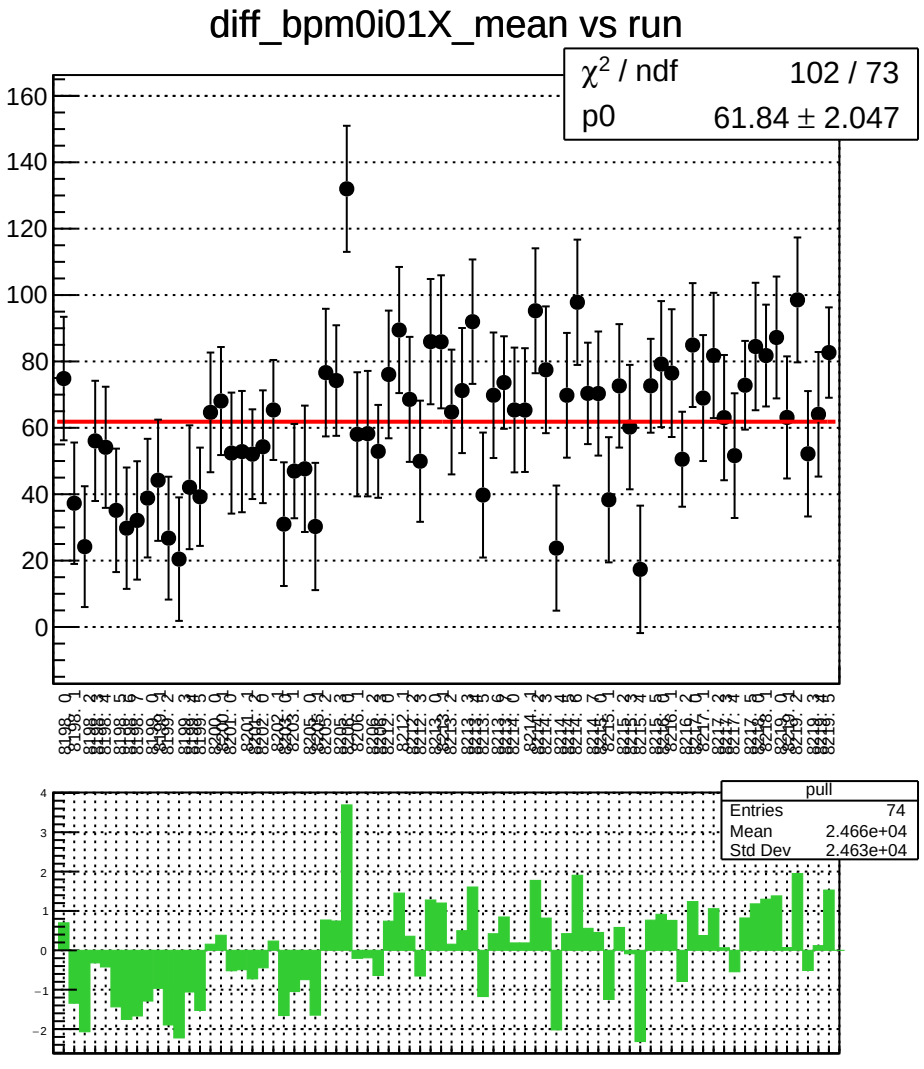

pull1D
Entries 74
Mean −0.000467
Std Dev 1.03
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

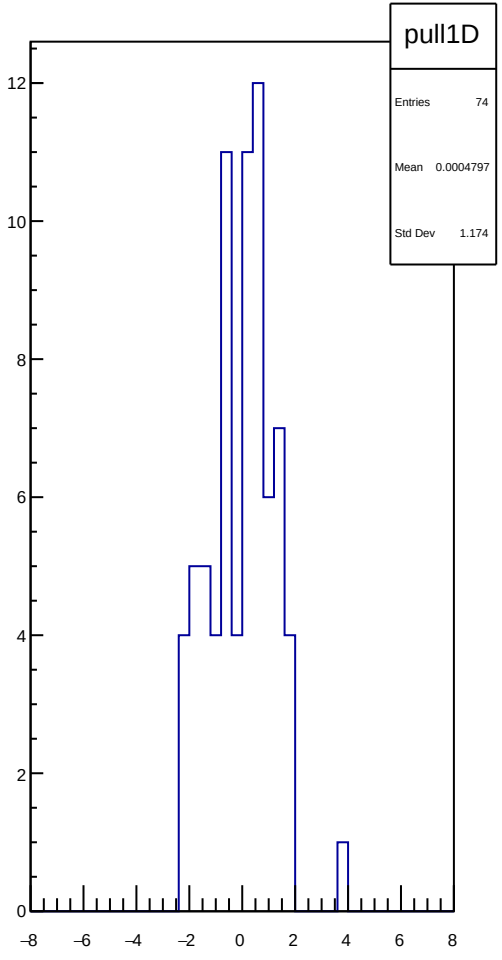

diff_cav4dX_rms vs run
×10^3
420
400
380
360
340
χ² / ndf 4025 / 73
p0 3.632e+05 ± 296.6

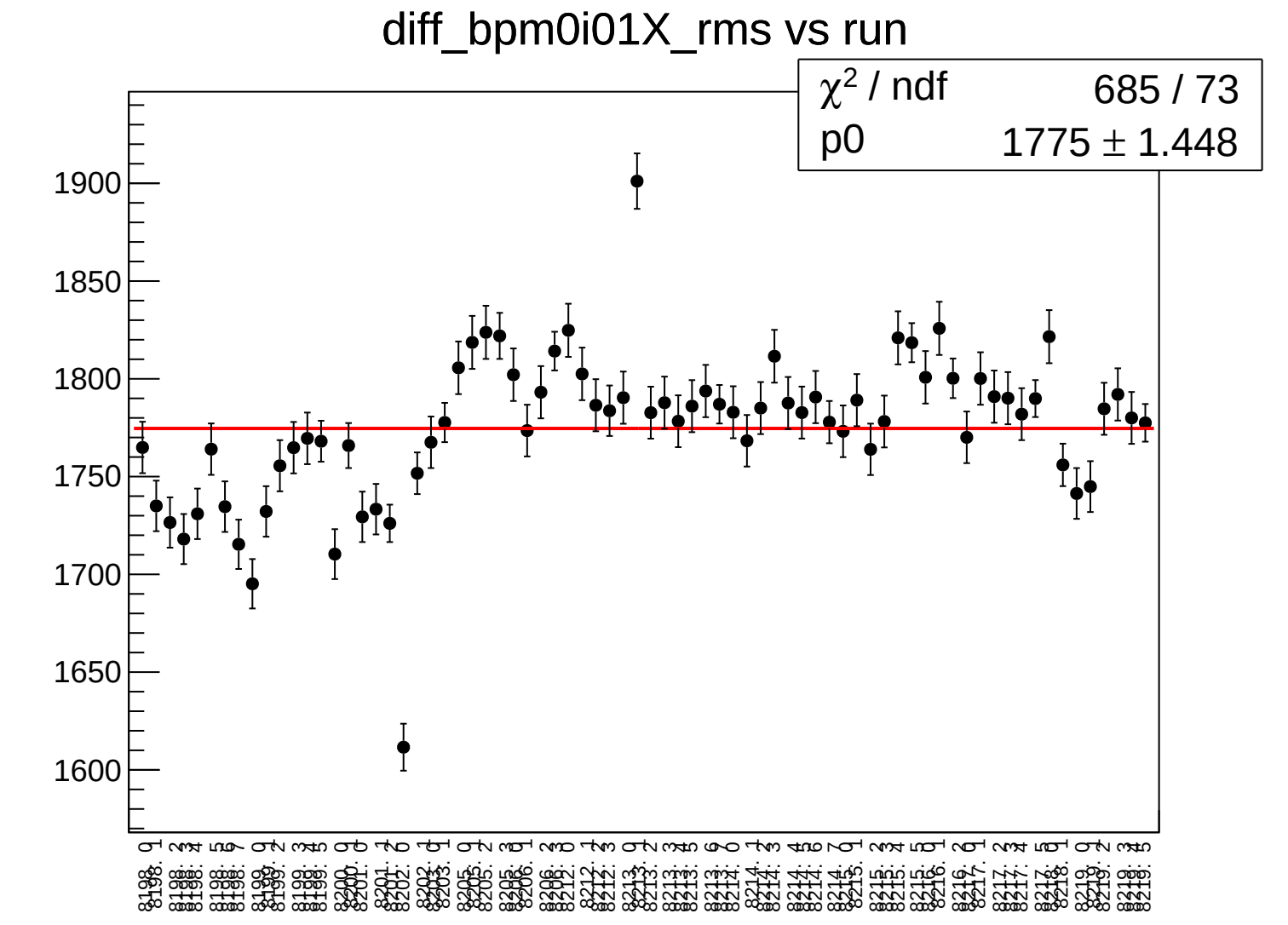

diff_cav4dY_mean vs run
χ² / ndf 89.56 / 73
p0 −6.087 ± 7.789
pull
Entries 74
Mean −163.8
Std Dev 206

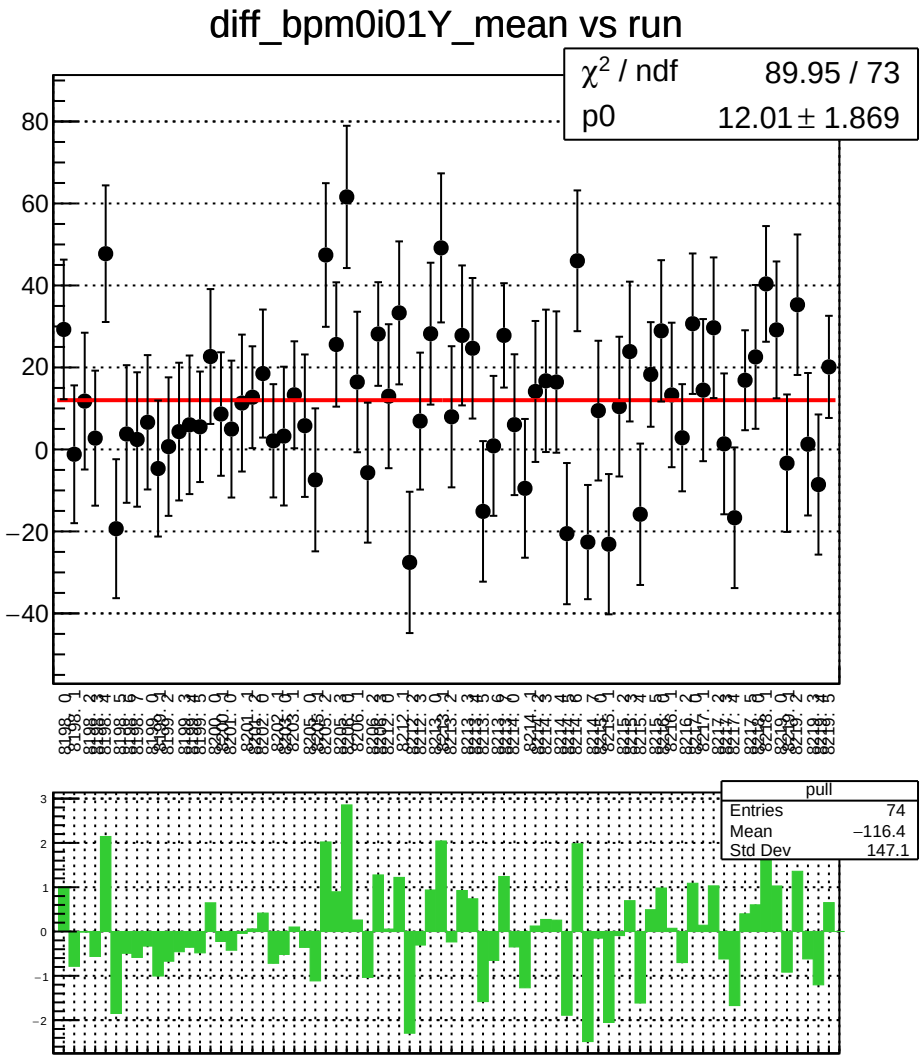

pull1D
Entries 74
Mean 0.01932
Std Dev 1.1

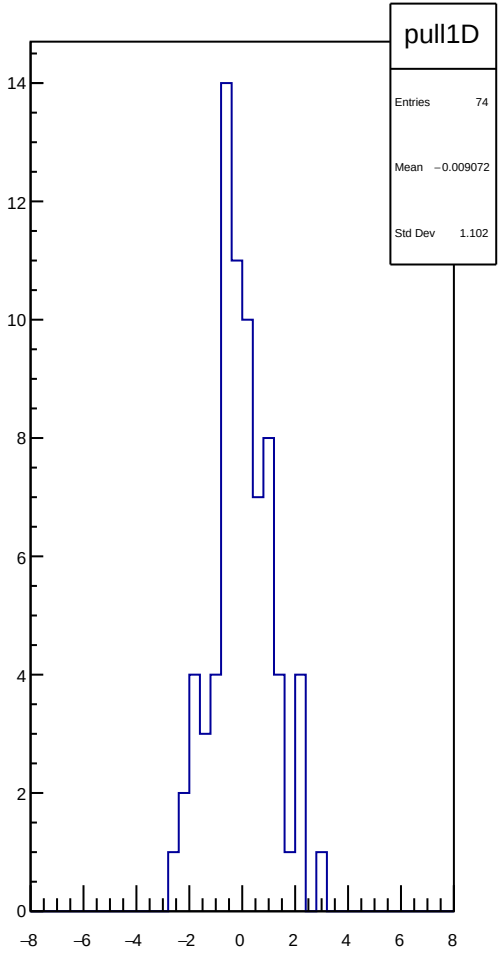

diff_cav4dY_rms vs run
χ² / ndf 3.156e+04 / 73
p0 6681 ± 5.508
9000
8000
7000
6000
5000

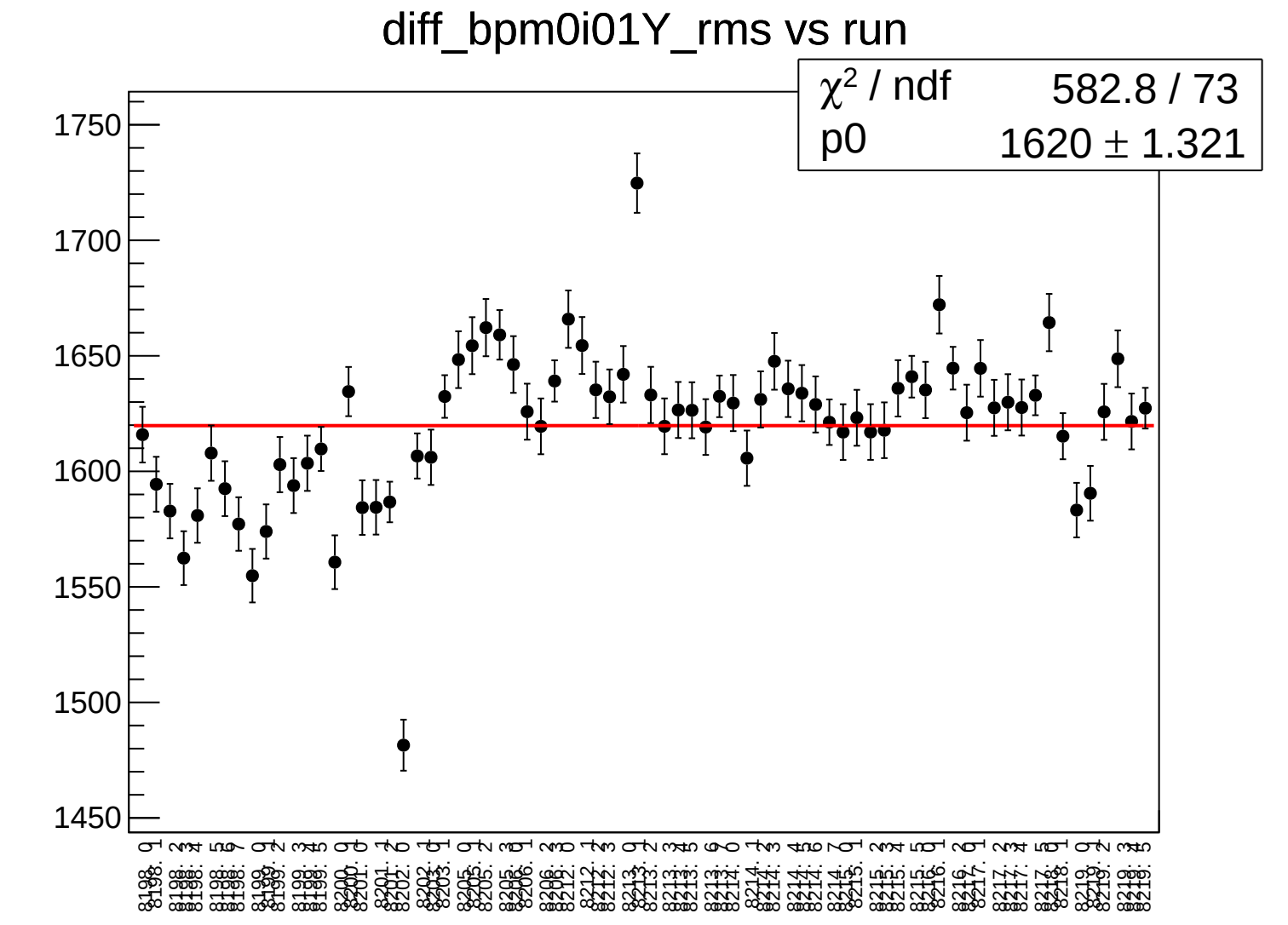

diff_bpm0i01X_mean vs run
χ² / ndf 102 / 73
p0 61.84 ± 2.047
pull
Entries 74
Mean 2.466e+04
Std Dev 2.463e+04

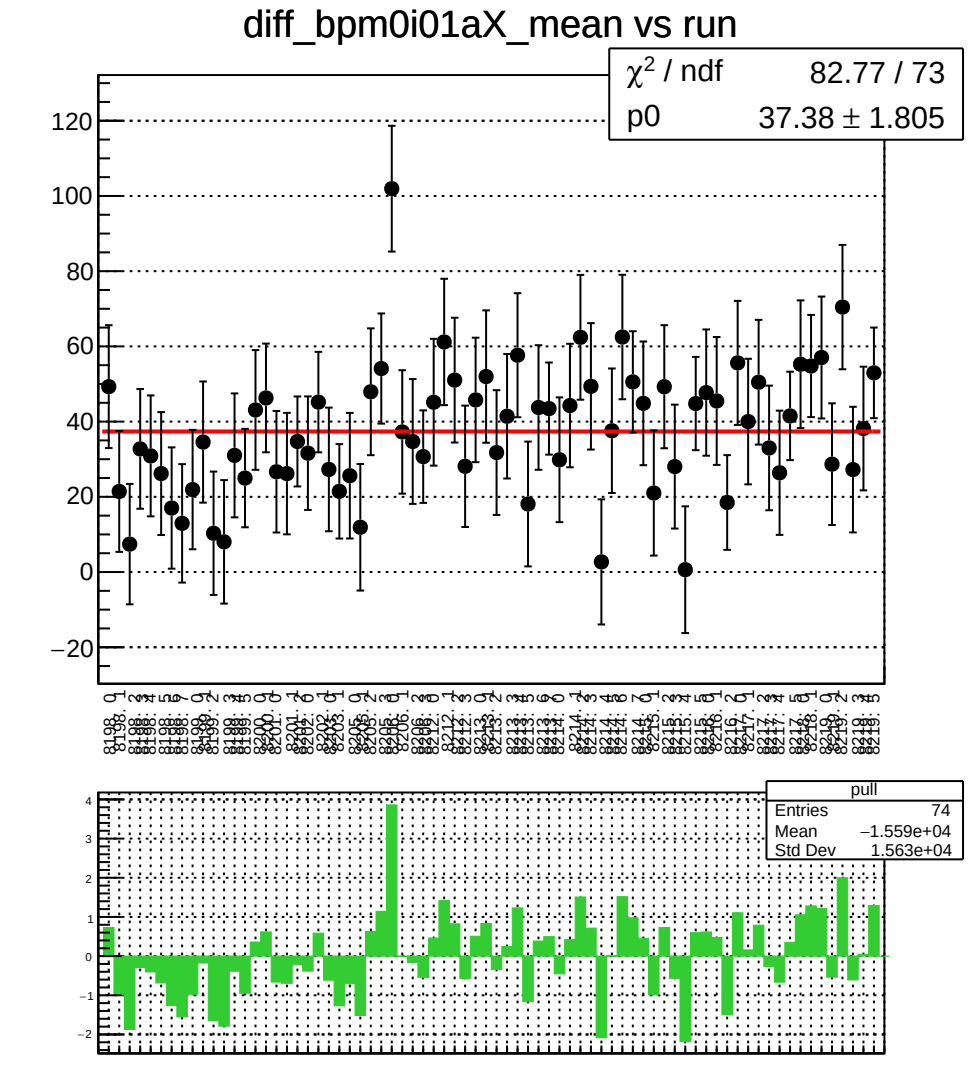

pull1D
Entries 74
Mean 0.0004797
Std Dev 1.174

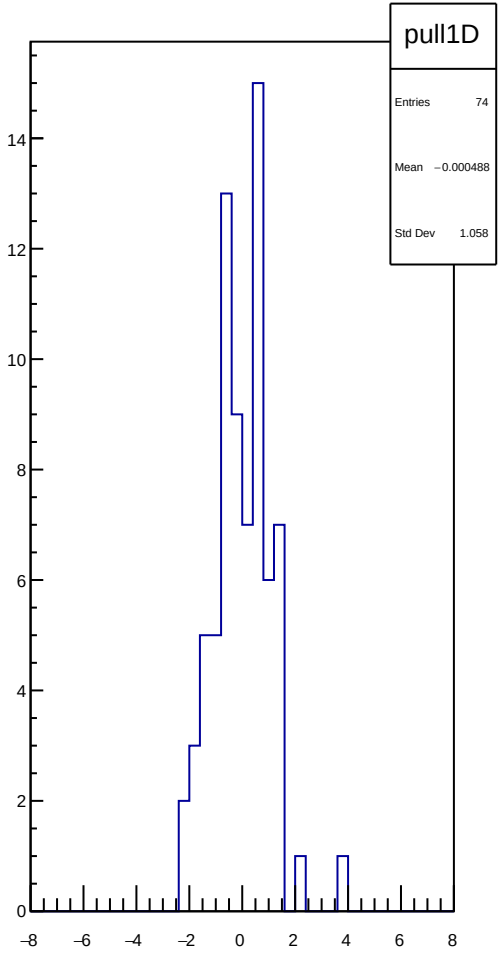

diff_bpm0i01X_rms vs run
χ² / ndf 685 / 73
p0 1775 ± 1.448
1900
1850
1800
1750
1700
1650
1600

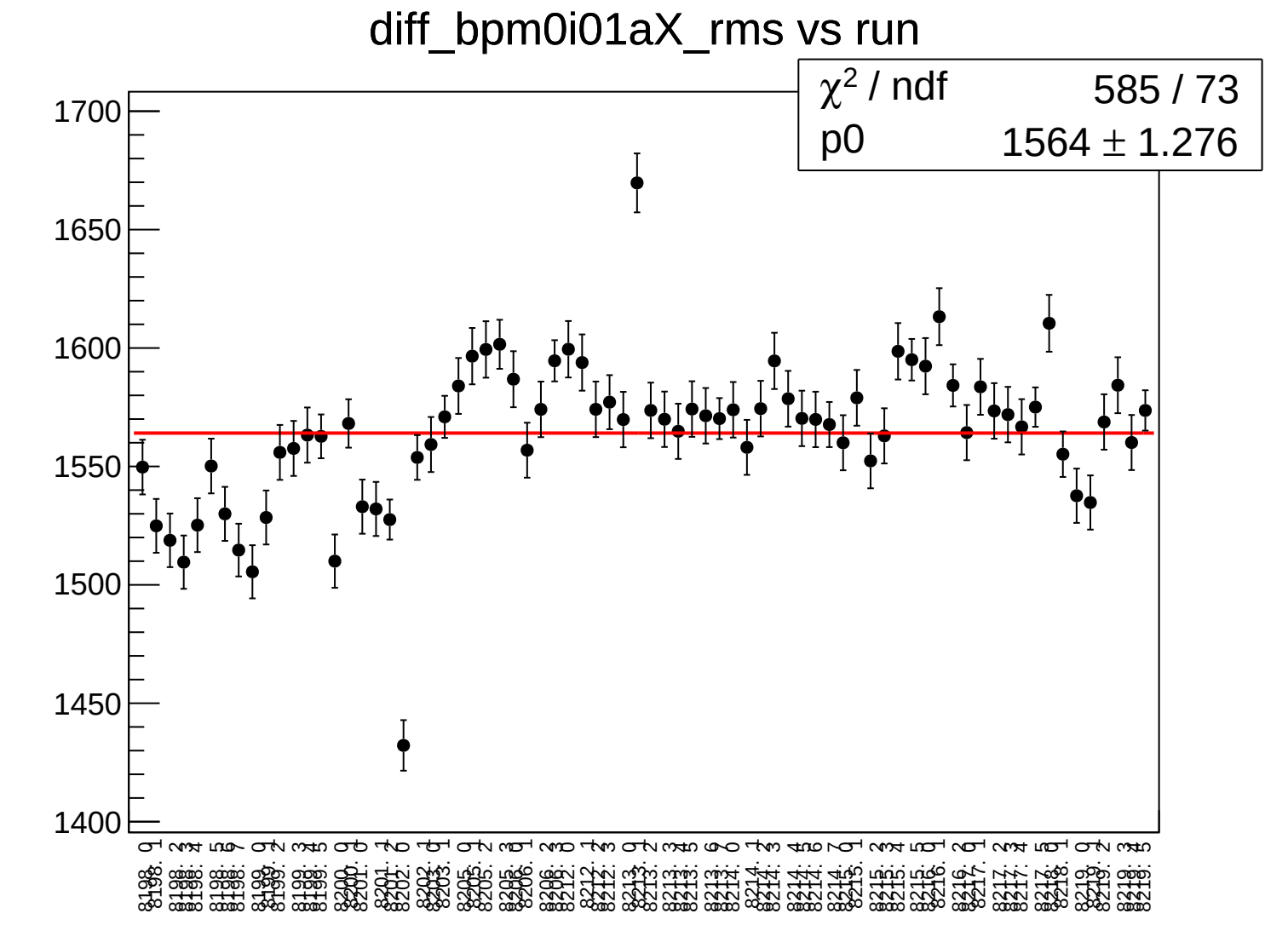

diff_bpm0i01Y_mean vs run
χ^2 / ndf 89.95 / 73
p0 12.01 ± 1.869
pull
Entries 74
Mean −116.4
Std Dev 147.1

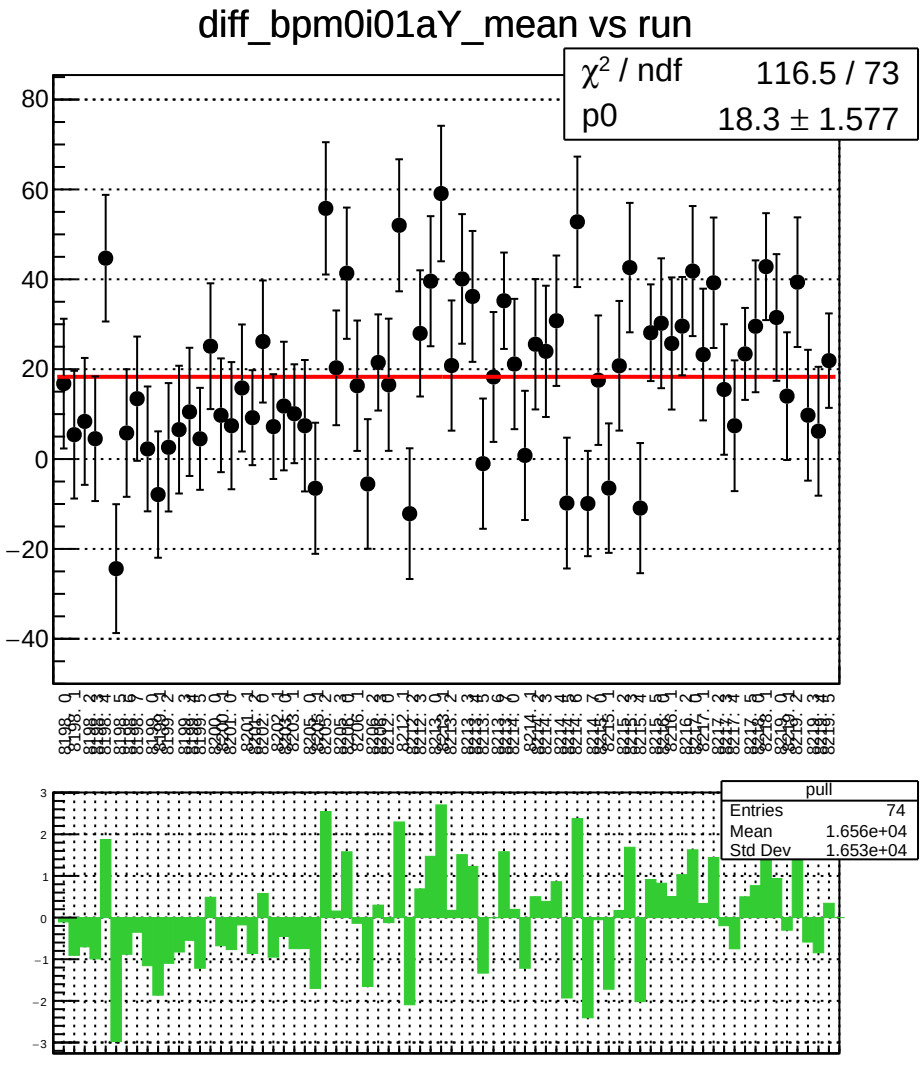

pull1D
Entries 74
Mean −0.009072
Std Dev 1.102

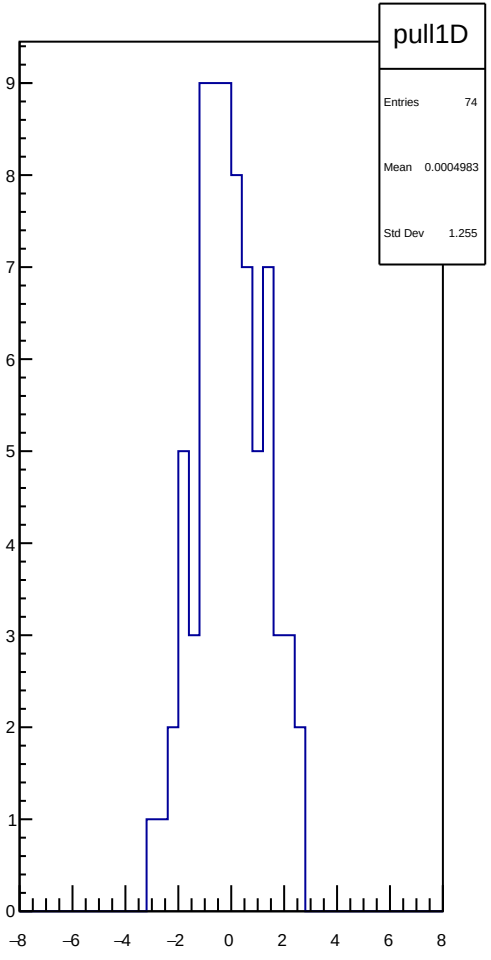

diff_bpm0i01Y_rms vs run
χ² / ndf 582.8 / 73
p0 1620 ± 1.321
1750
1700
1650
1600
1550
1500
1450

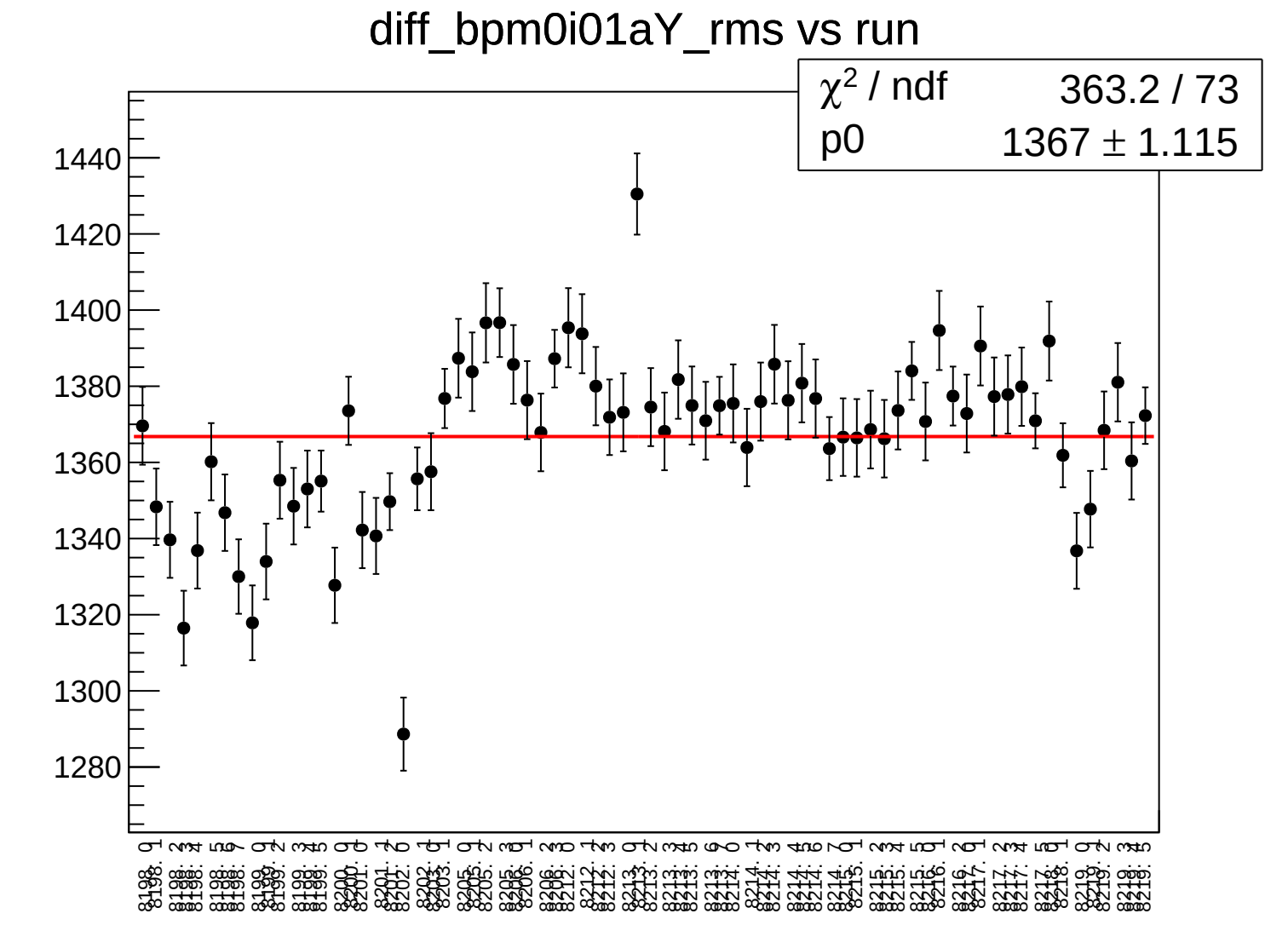

diff_bpm0i01aX_mean vs run
χ² / ndf 82.77 / 73
p0 37.38 ± 1.805
pull
Entries 74
Mean −1.559e+04
Std Dev 1.563e+04

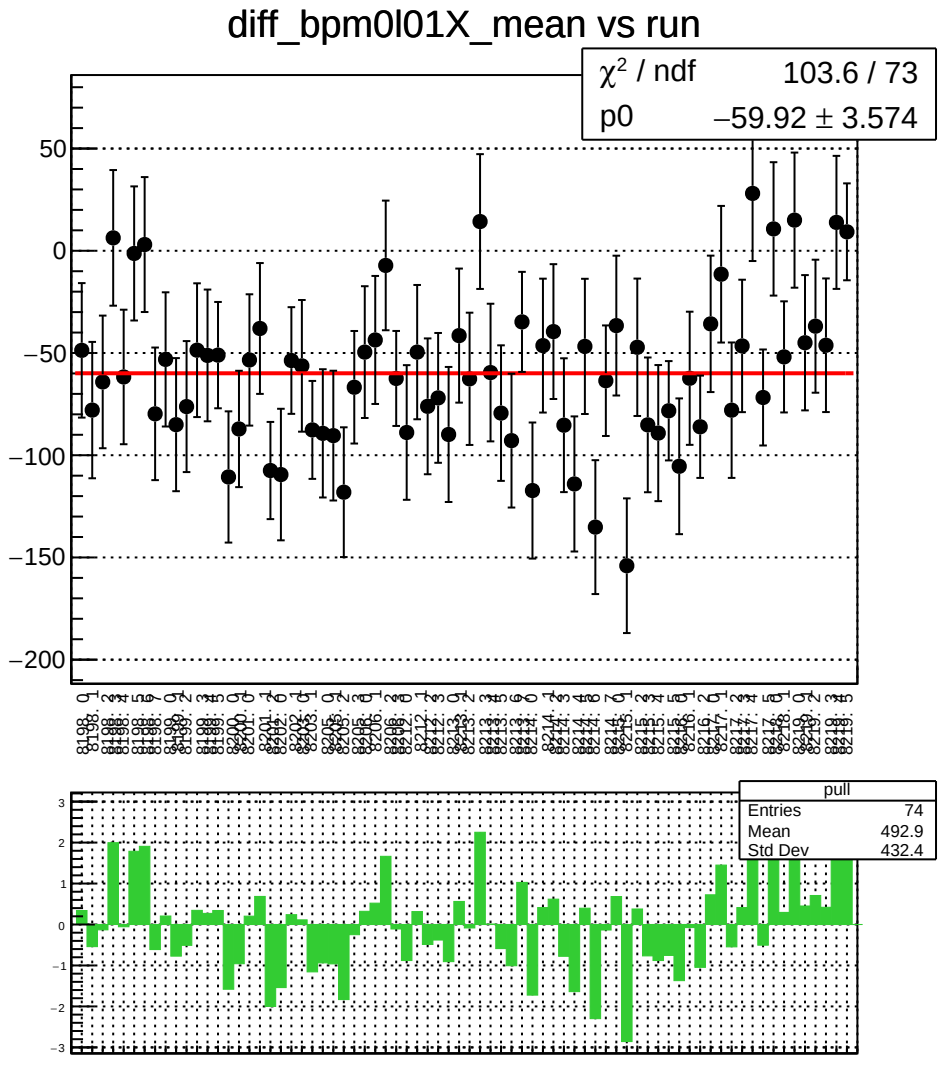

pull1D
Entries 74
Mean −0.000488
Std Dev 1.058

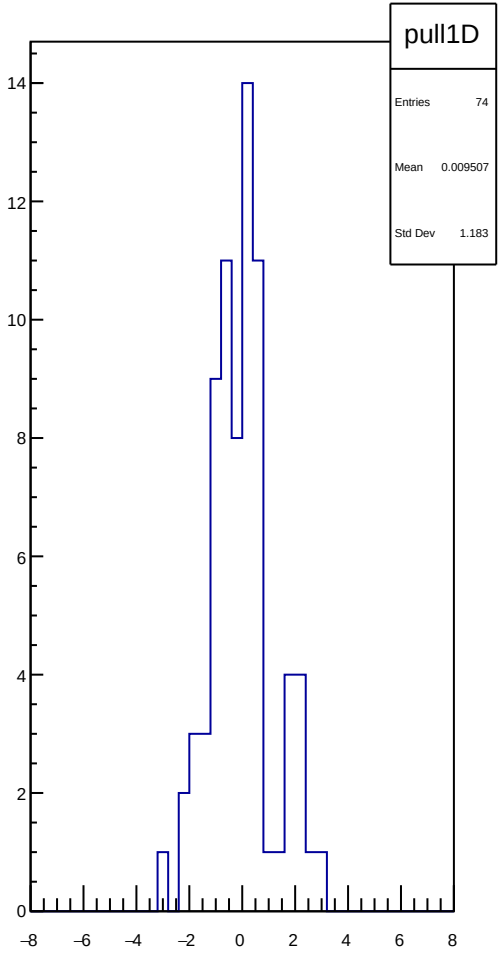

diff_bpm0i01aX_rms vs run
χ² / ndf 585 / 73
p0 1564 ± 1.276
1700
1650
1600
1550
1500
1450
1400

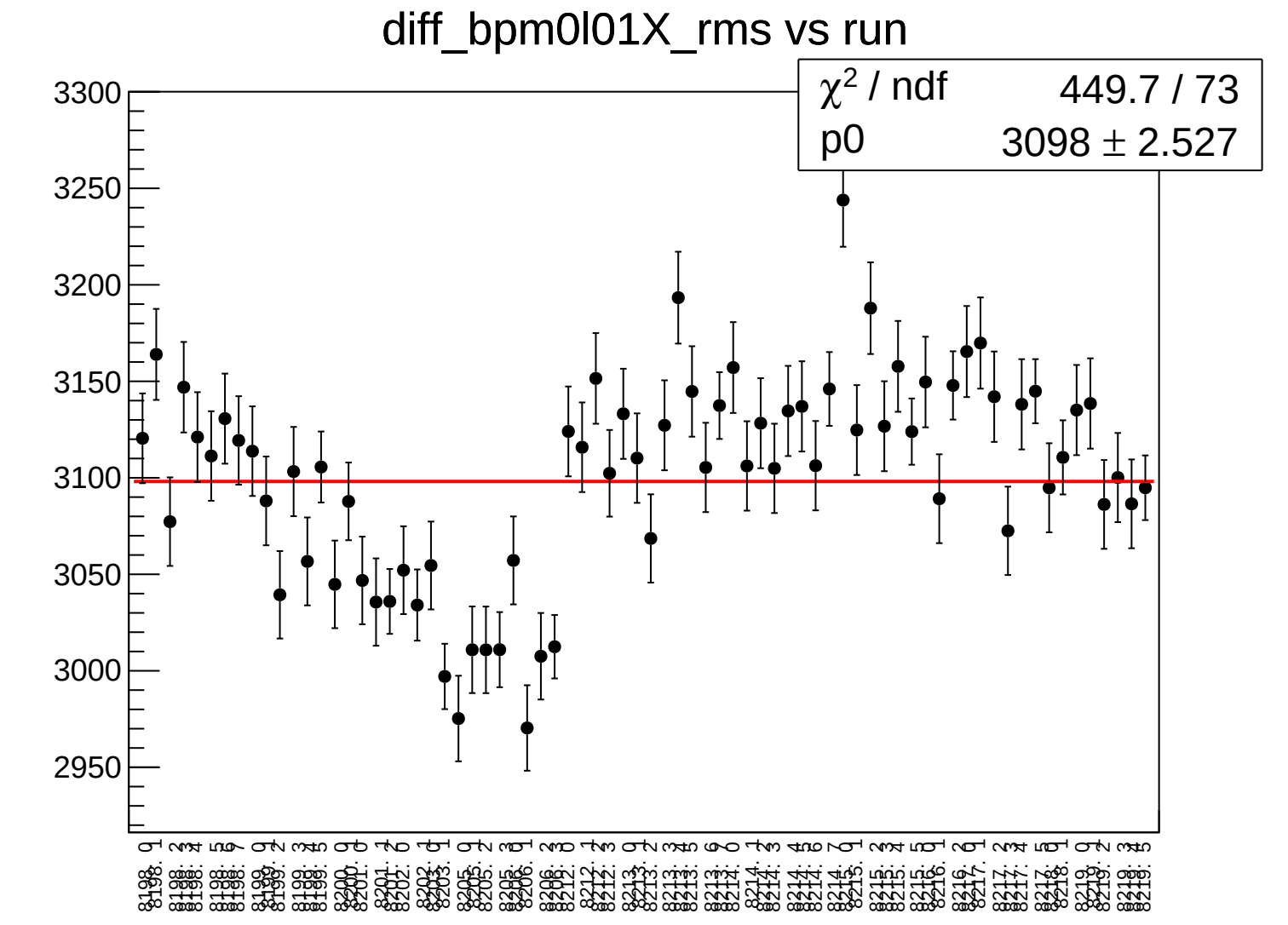

diff_bpm0i01aY_mean vs run
χ² / ndf 116.5 / 73
p0 18.3 ± 1.577
pull
Entries 74
Mean 1.656e+04
Std Dev 1.653e+04

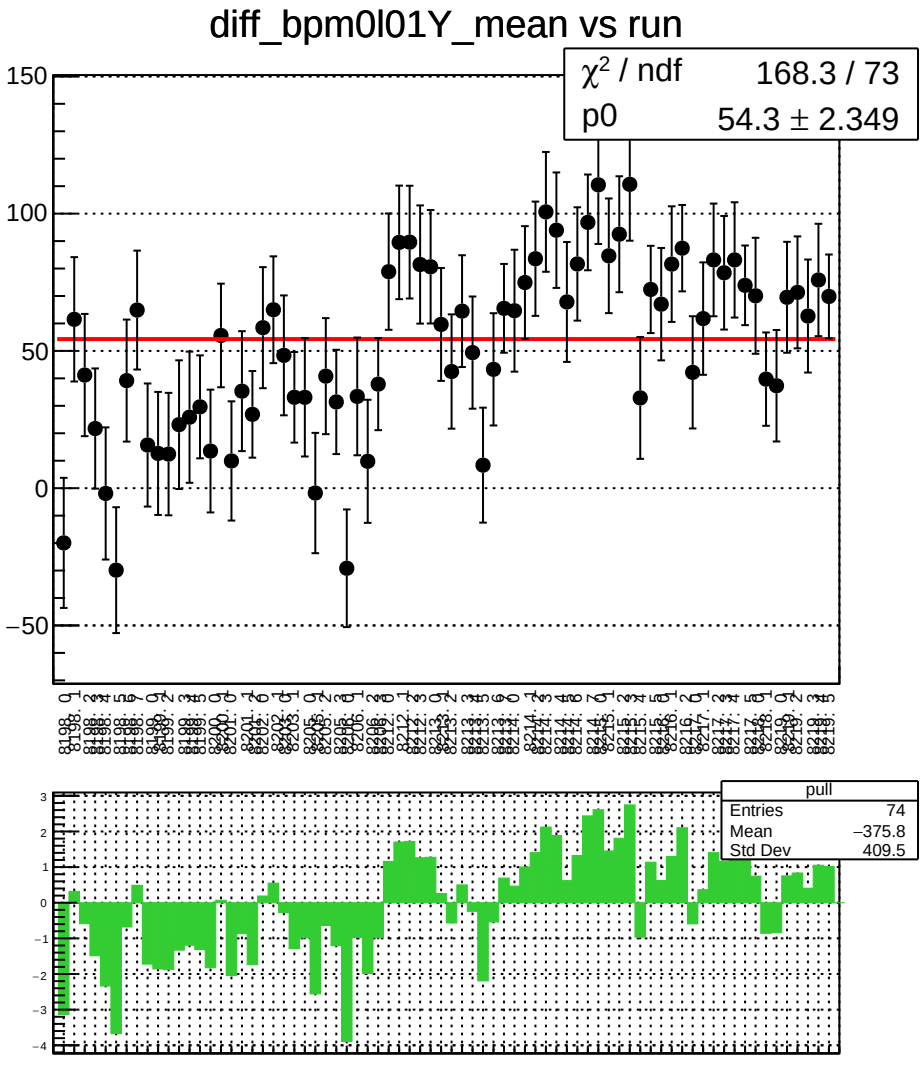

pull1D
Entries 74
Mean 0.0004983
Std Dev 1.255

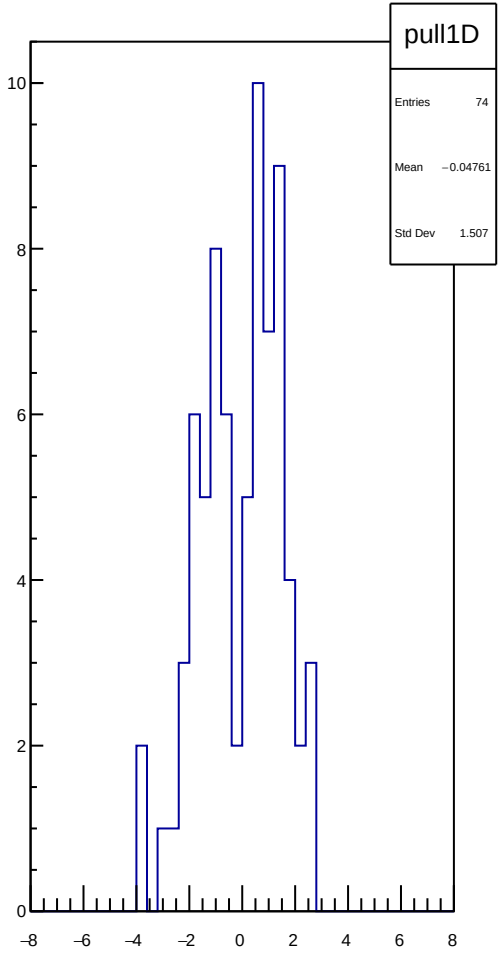

diff_bpm0i01aY_rms vs run
χ^2 / ndf 363.2 / 73
p0 1367 ± 1.115
1440
1420
1400
1380
1360
1340
1320
1300
1280

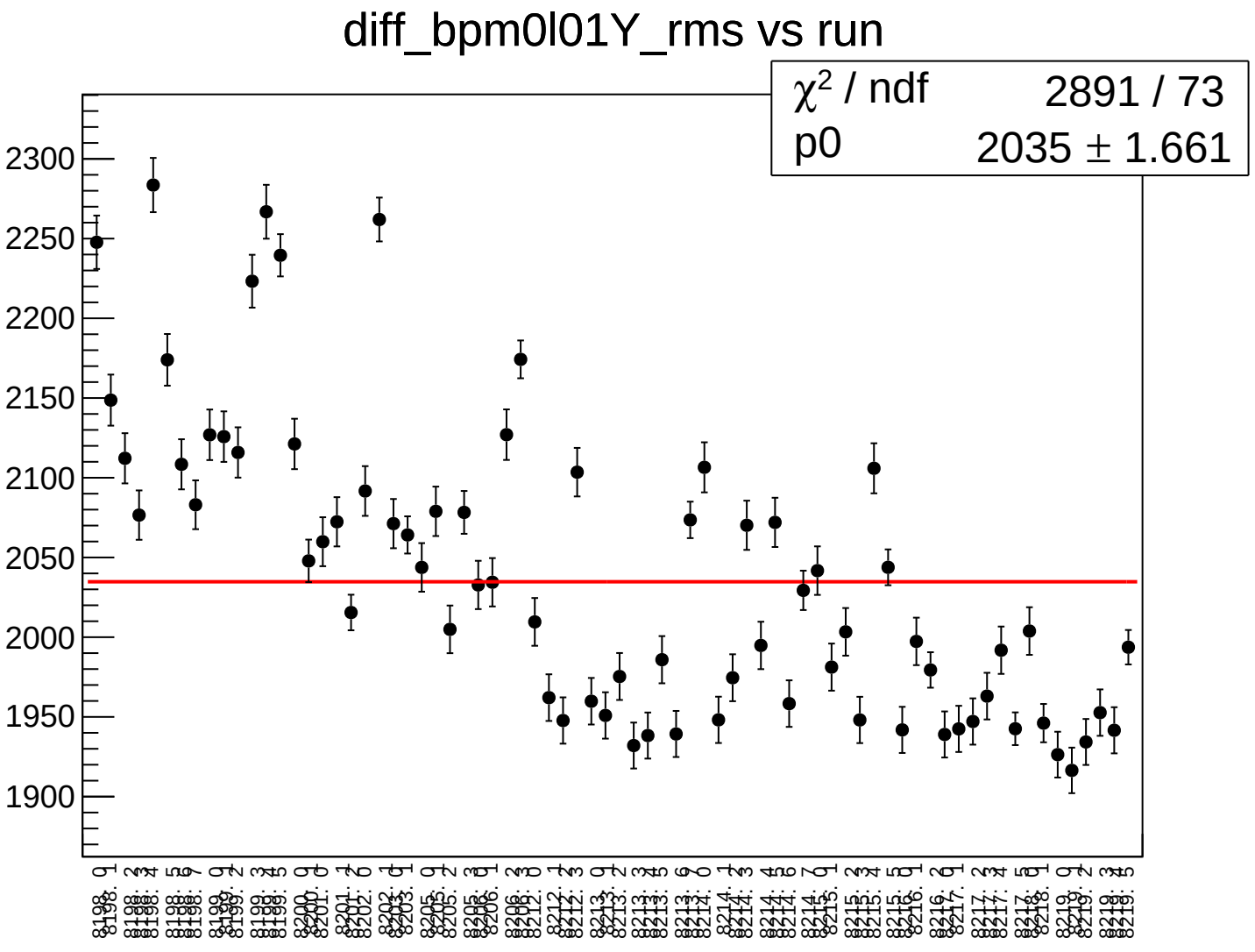

diff_bpm0l01X_mean vs run
χ² / ndf 103.6 / 73
p0 −59.92 ± 3.574
pull
Entries 74
Mean 492.9
Std Dev 432.4

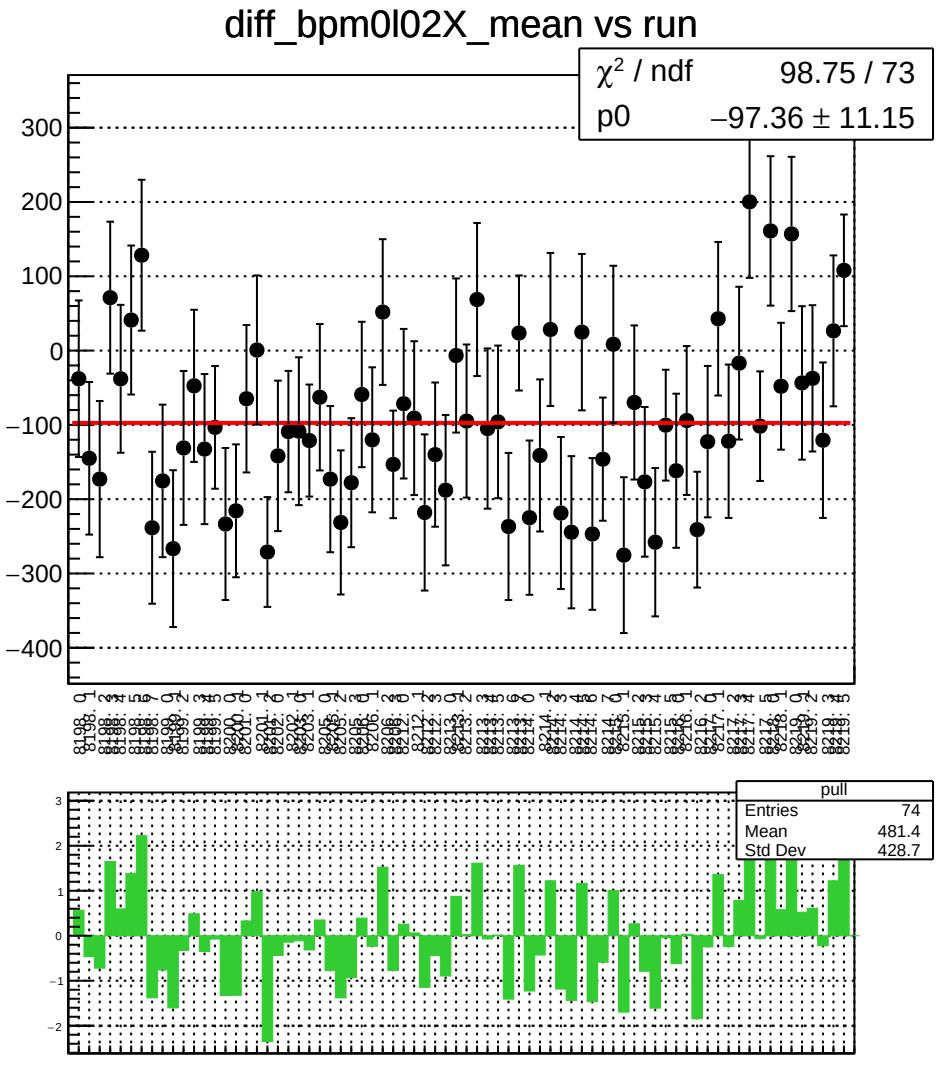

pull1D
Entries 74
Mean 0.009507
Std Dev 1.183

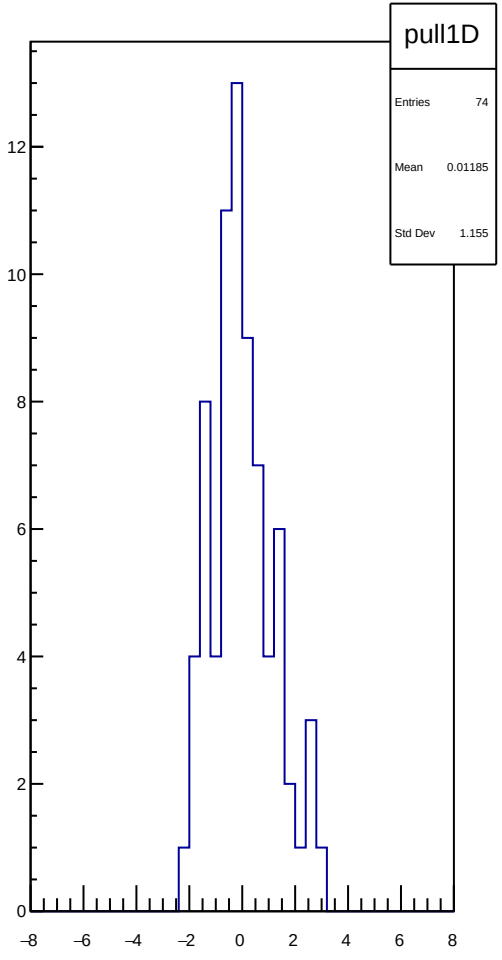

diff_bpm0l01X_rms vs run
χ² / ndf 449.7 / 73
p0 3098 ± 2.527
3300
3250
3200
3150
3100
3050
3000
2950

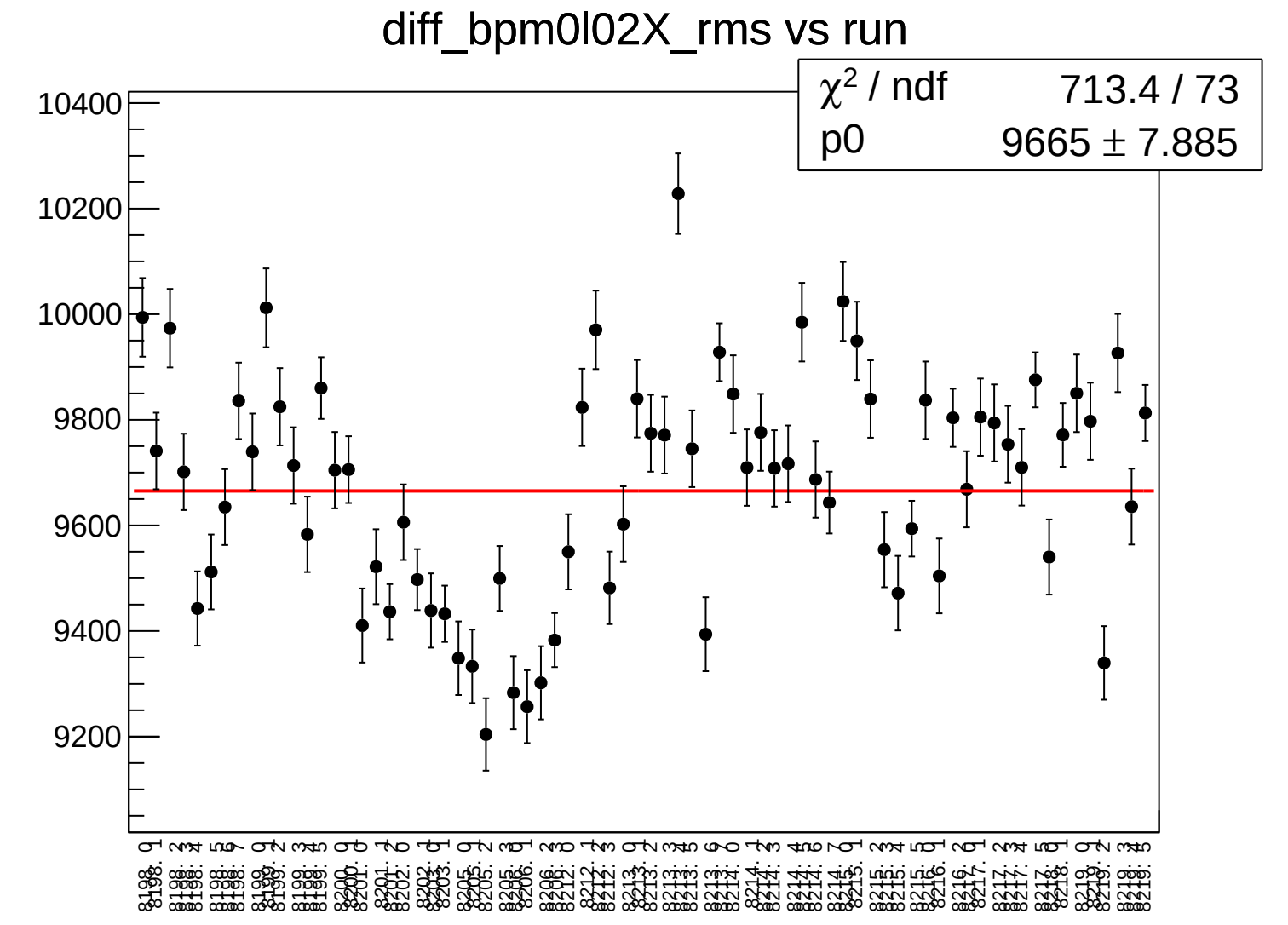

diff_bpm0l01Y_mean vs run
χ^2 / ndf 168.3 / 73
p0 54.3 ± 2.349
150
100
50
0
−50
pull
Entries 74
Mean −375.8
Std Dev 409.5
3
2
1
0
−1
−2
−3
−4

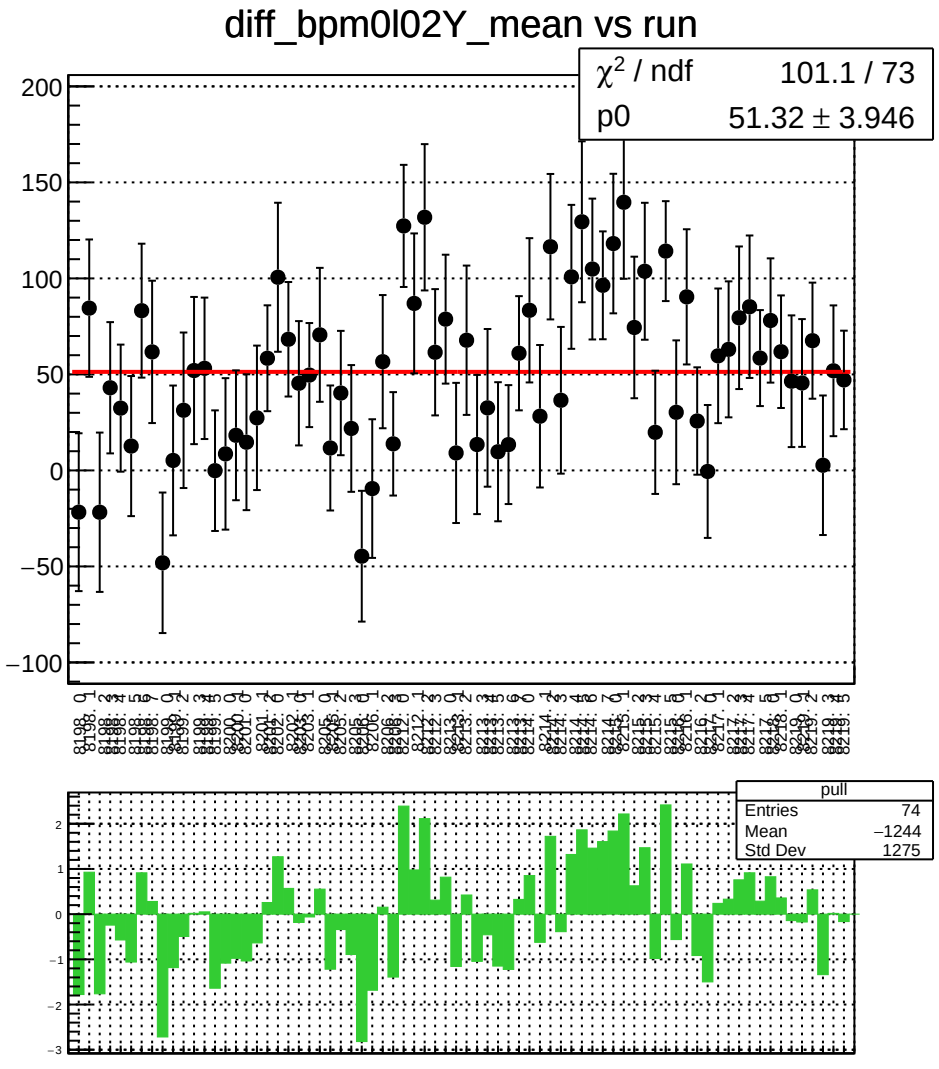

pull1D
Entries 74
Mean −0.04761
Std Dev 1.507
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

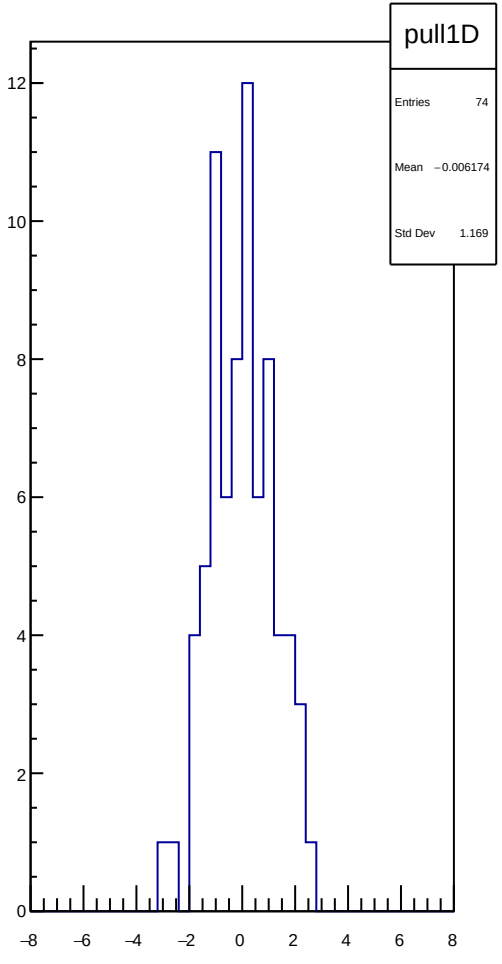

diff_bpm0l01Y_rms vs run
χ² / ndf 2891 / 73
p0 2035 ± 1.661
2300
2250
2200
2150
2100
2050
2000
1950
1900

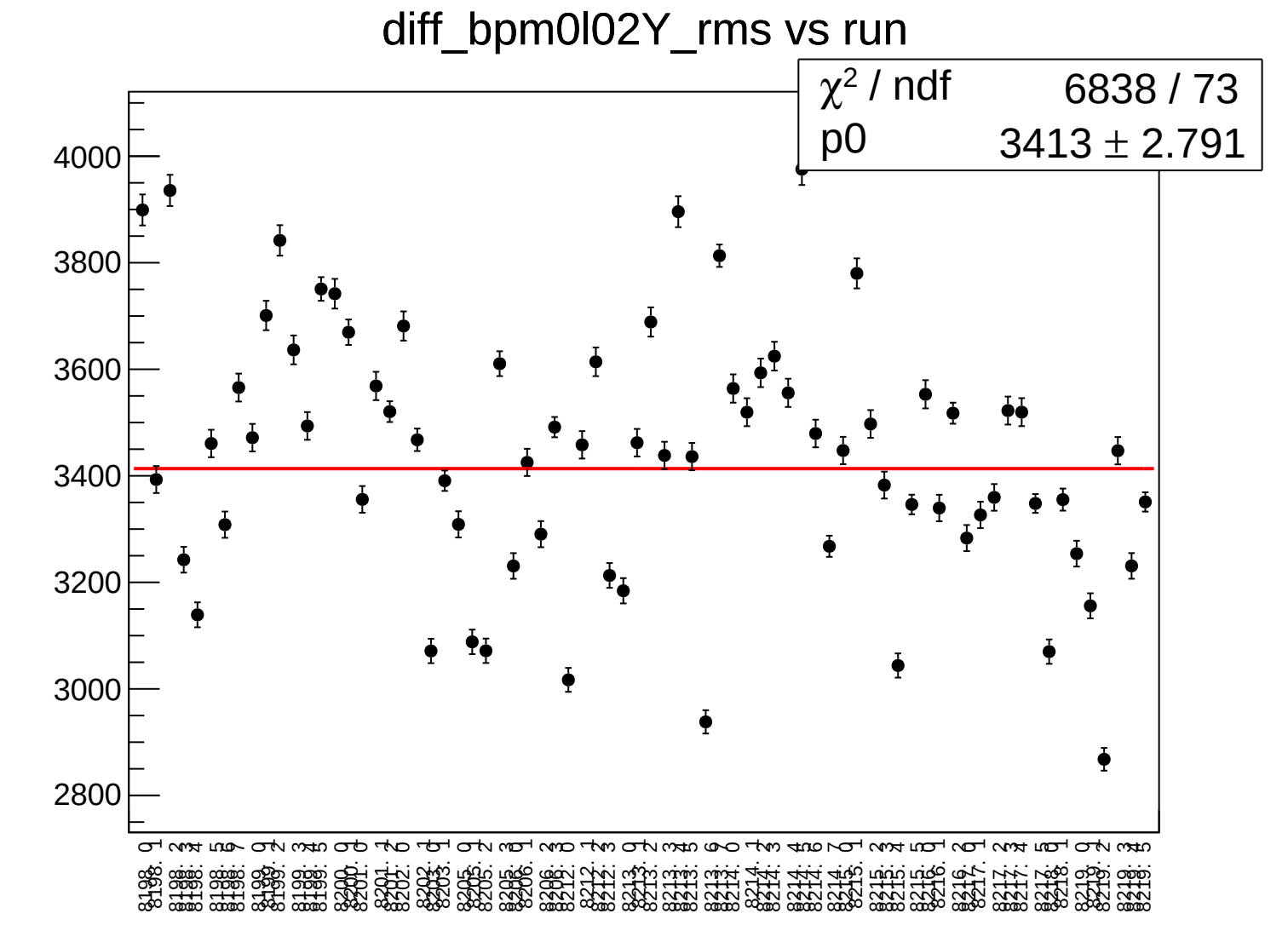

diff_bpm0l02X_mean vs run
χ² / ndf 98.75 / 73
p0 −97.36 ± 11.15
pull
Entries 74
Mean 481.4
Std Dev 428.7

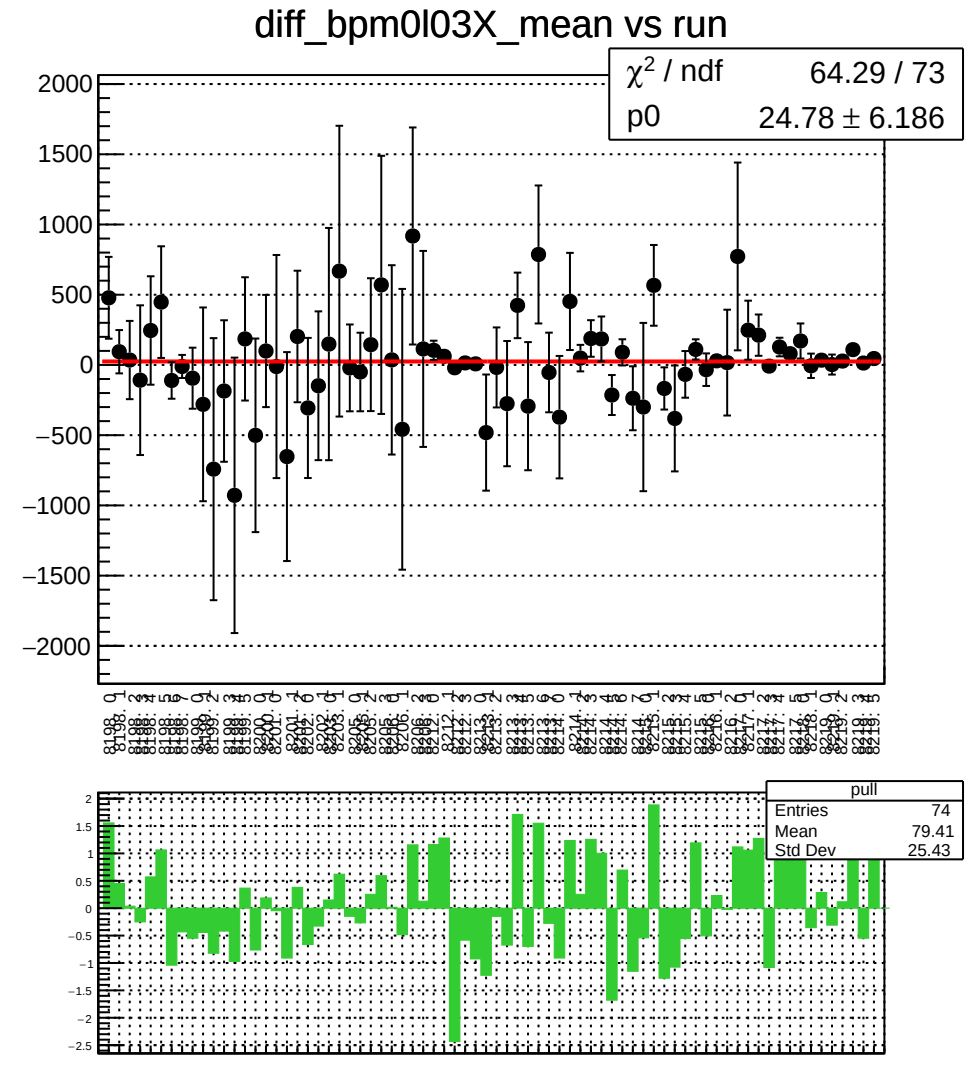

pull1D
Entries 74
Mean 0.01185
Std Dev 1.155

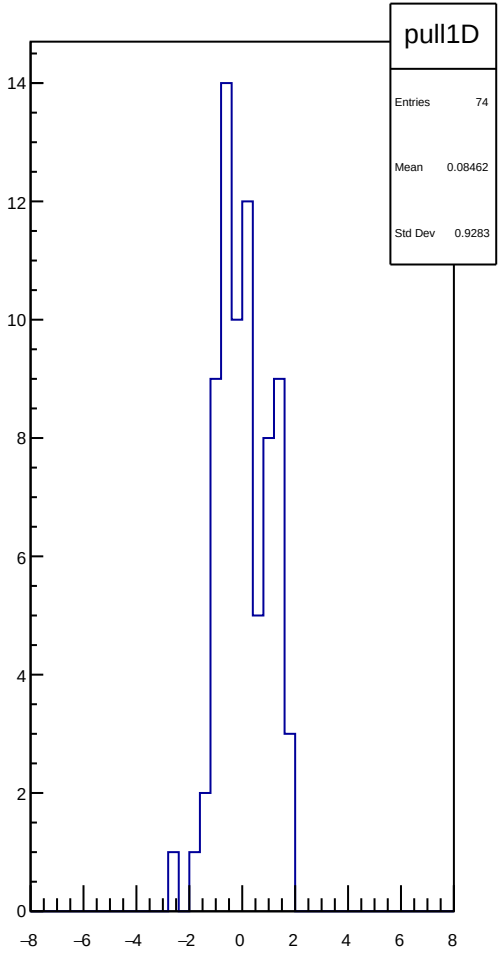

diff_bpm0l02X_rms vs run
χ² / ndf 713.4 / 73
p0 9665 ± 7.885
10400
10200
10000
9800
9600
9400
9200

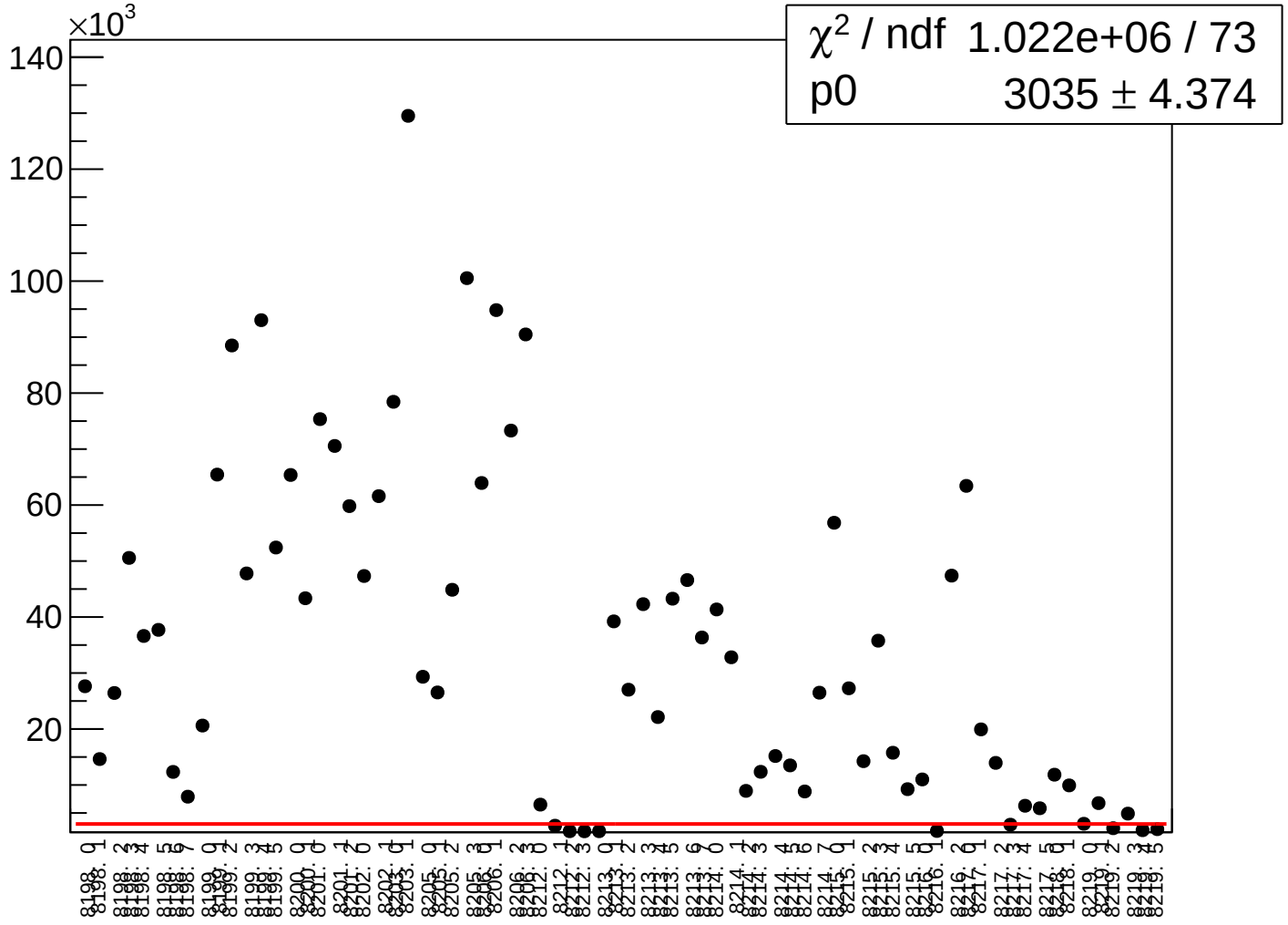

diff_bpm0l02Y_mean vs run
χ² / ndf 101.1 / 73
p0 51.32 ± 3.946
pull
Entries 74
Mean −1244
Std Dev 1275

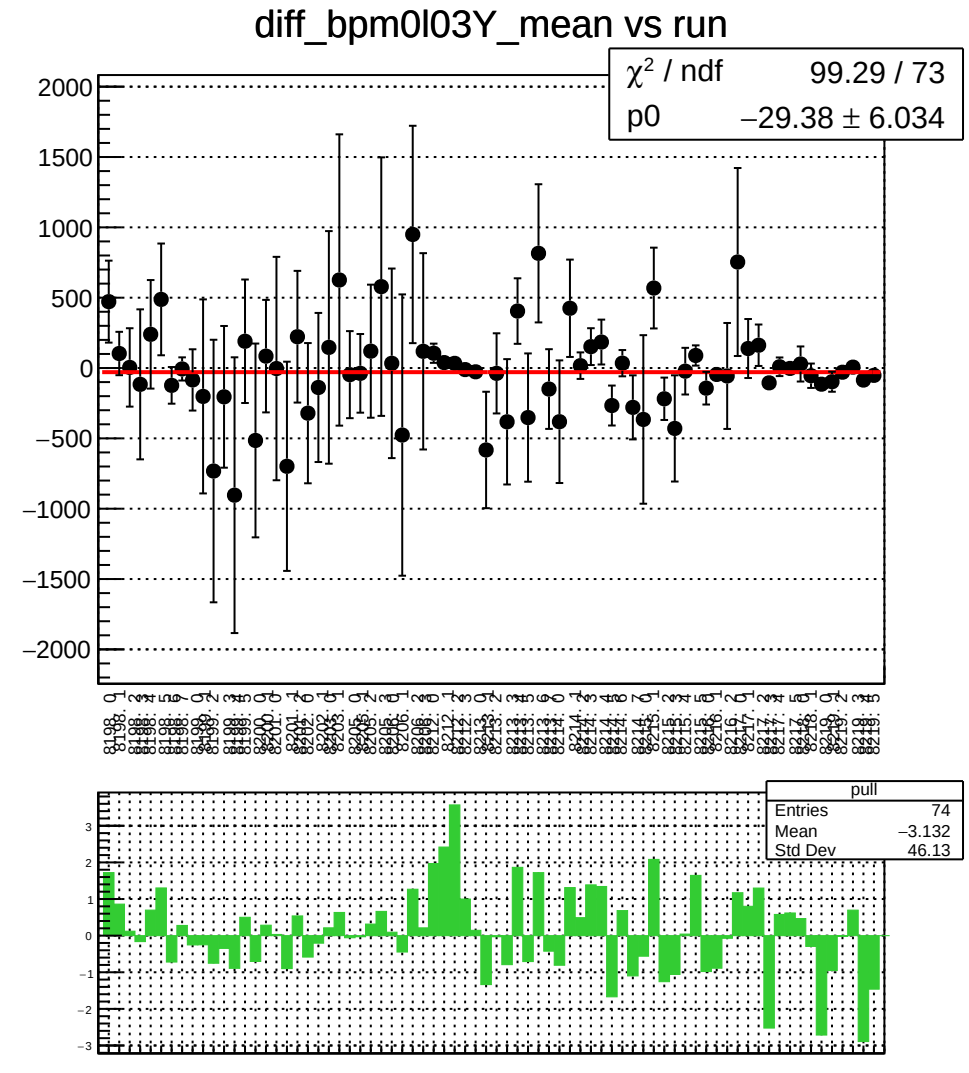

pull1D
Entries 74
Mean −0.006174
Std Dev 1.169

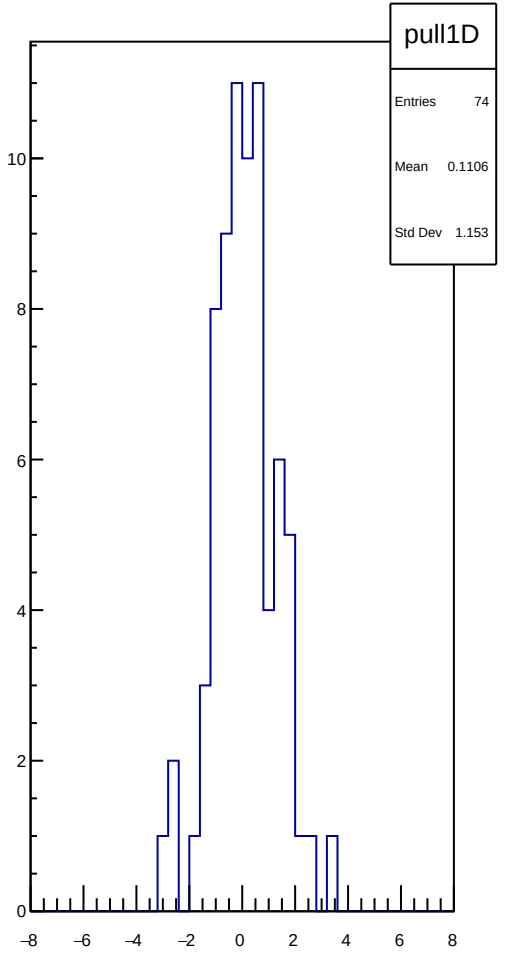

diff_bpm0l02Y_rms vs run
χ² / ndf 6838 / 73
p0 3413 ± 2.791
4000
3800
3600
3400
3200
3000
2800

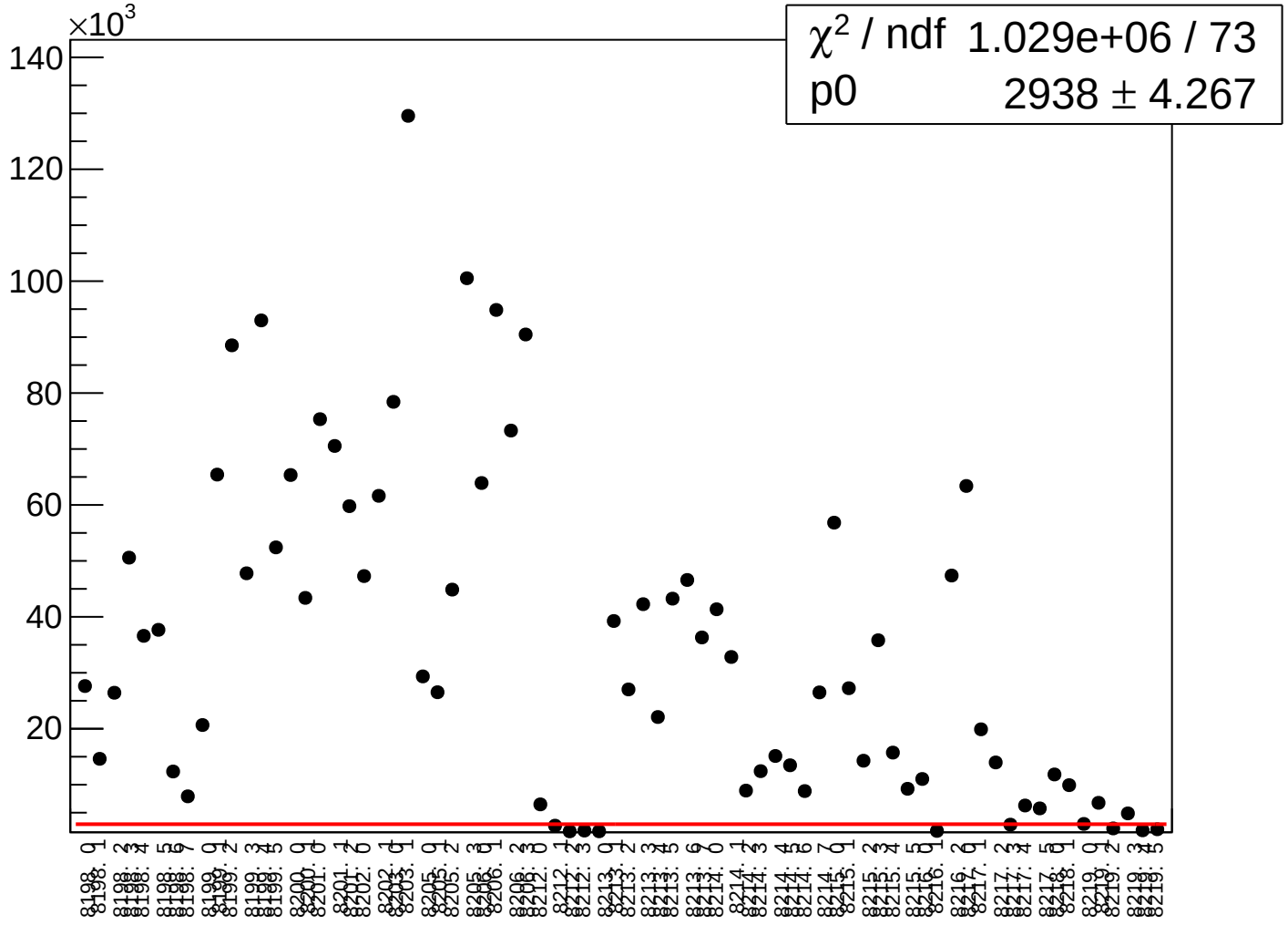

diff_bpm0l03X_mean vs run
χ^2 / ndf 64.29 / 73
p0 24.78 ± 6.186
pull
Entries 74
Mean 79.41
Std Dev 25.43

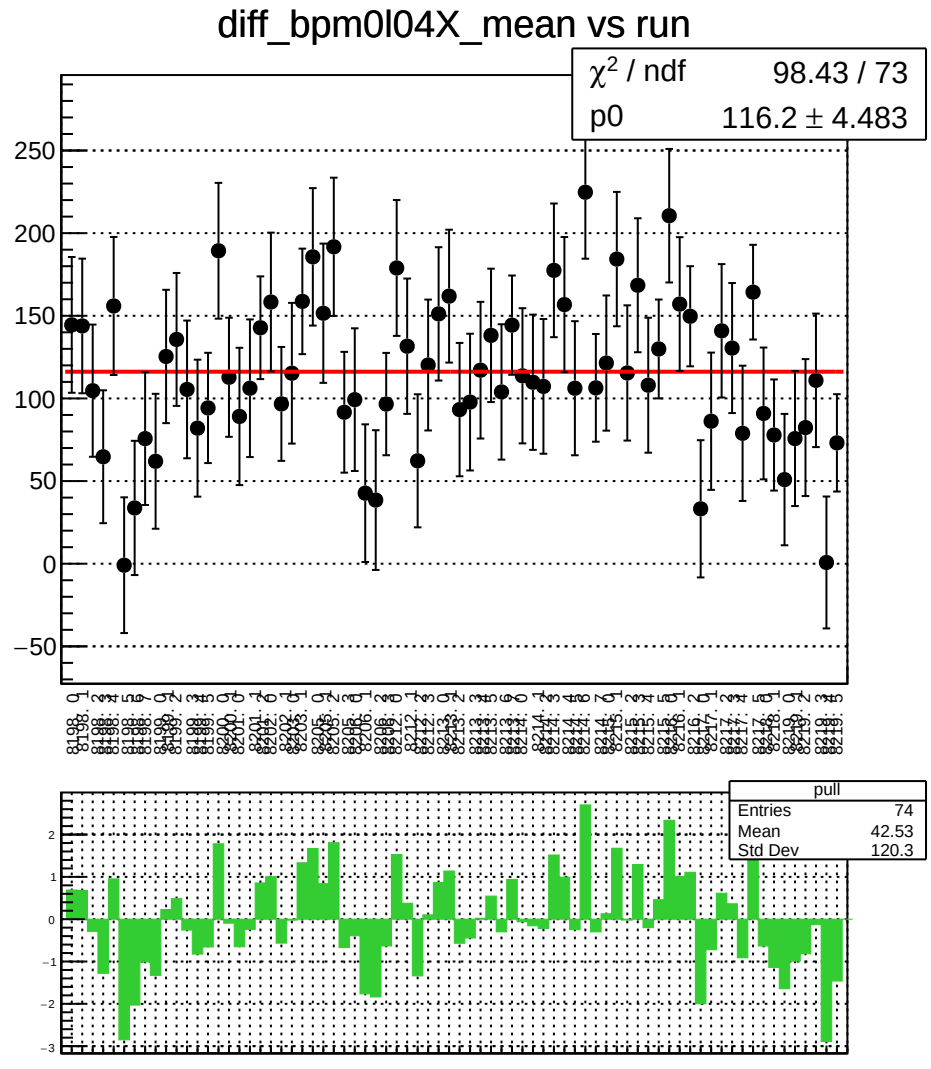

pull1D
Entries 74
Mean 0.08462
Std Dev 0.9283

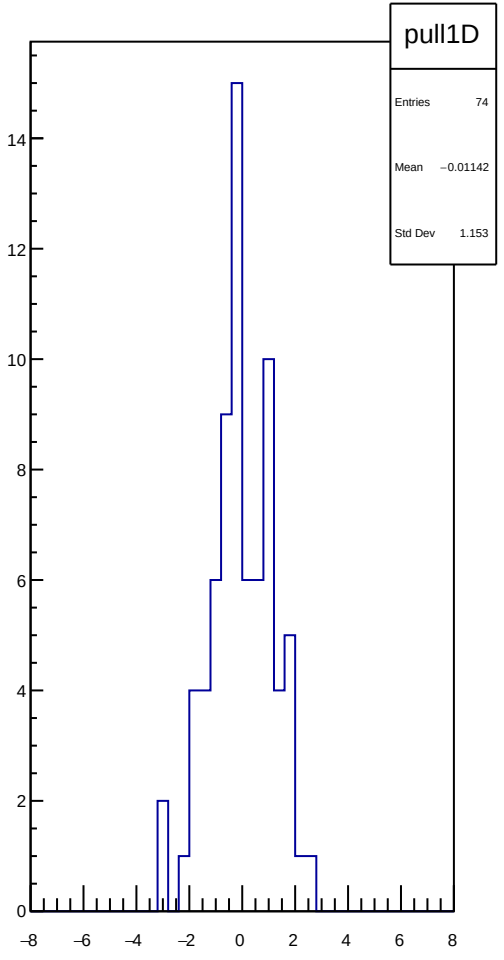

diff_bpm0l03X_rms vs run
×10^3
χ^2 / ndf 1.022e+06 / 73
p0 3035 ± 4.374
140
120
100
80
60
40
20

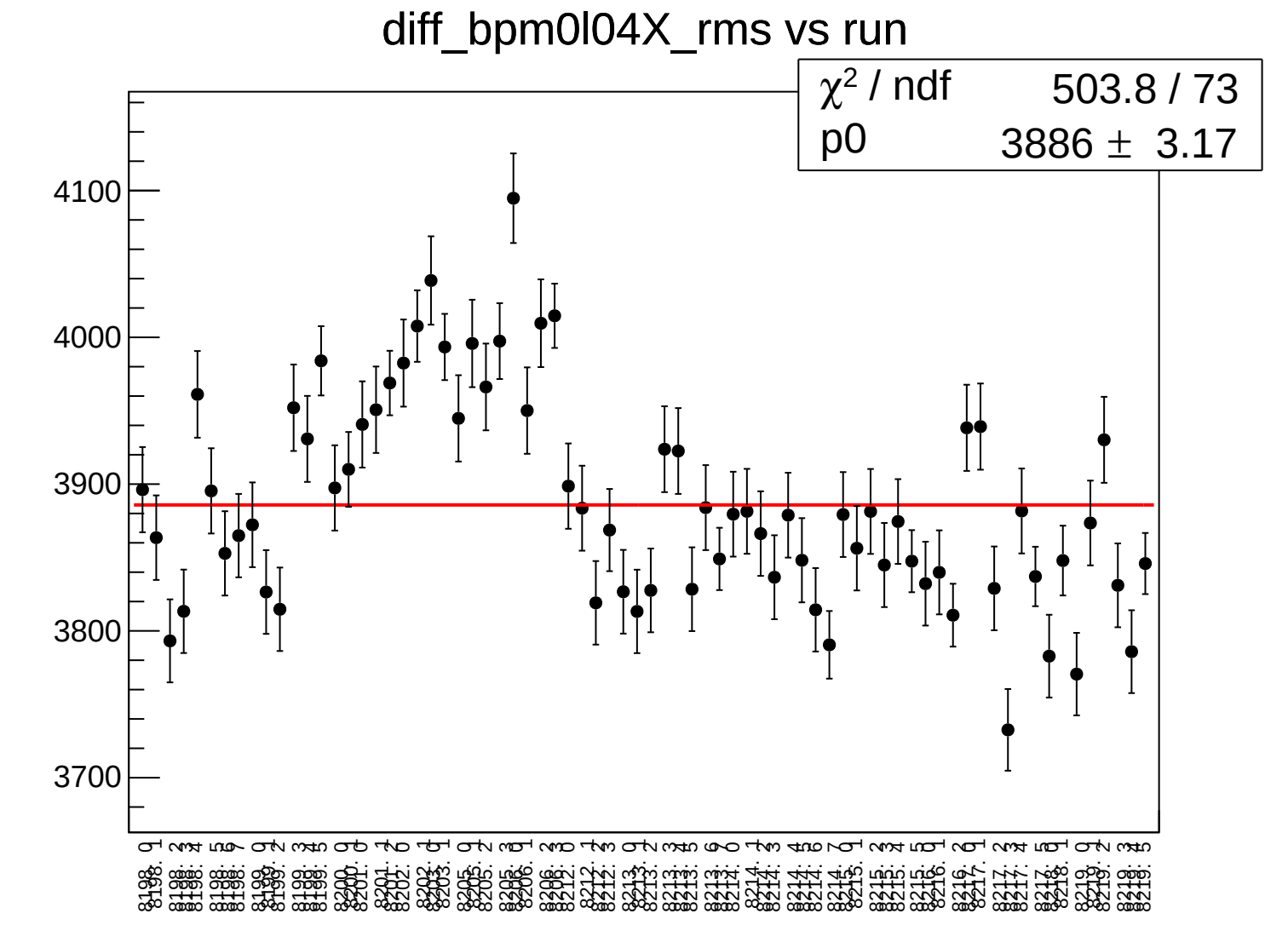

diff_bpm0l03Y_mean vs run
χ² / ndf 99.29 / 73
p0 −29.38 ± 6.034
pull
Entries 74
Mean −3.132
Std Dev 46.13

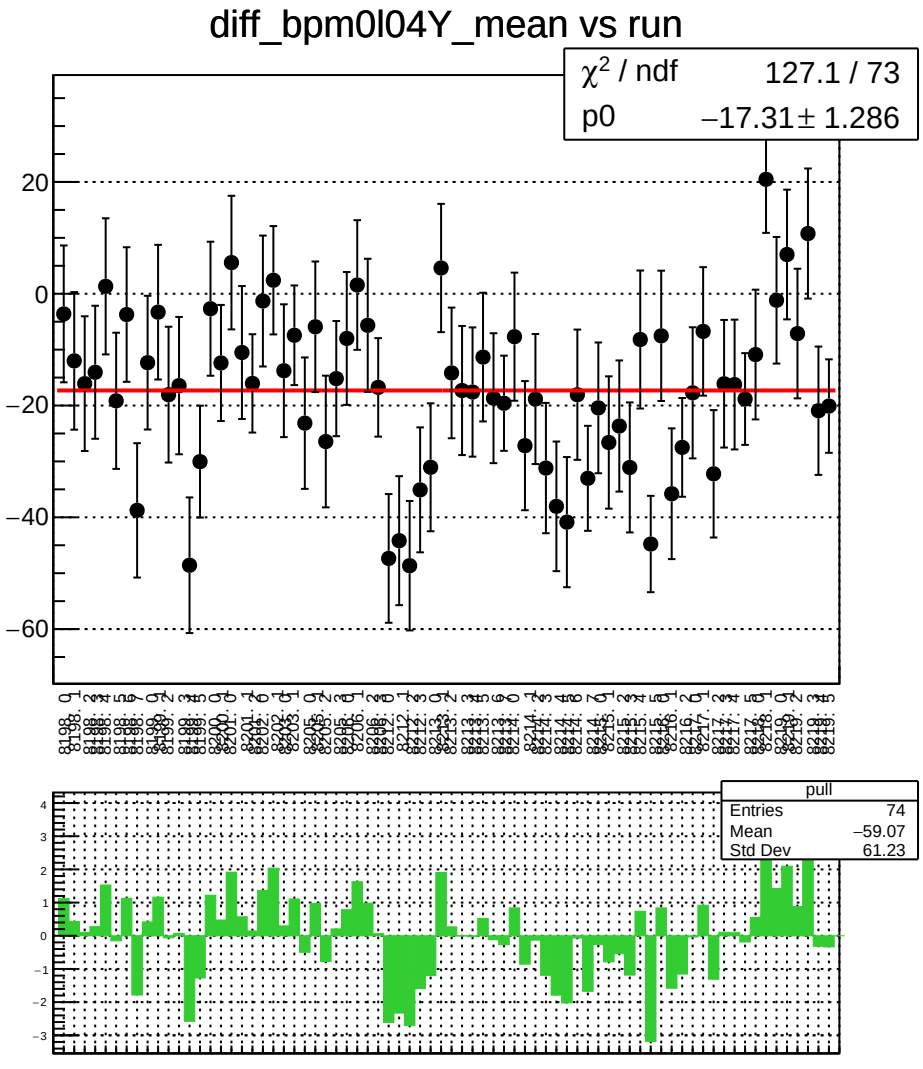

pull1D
Entries 74
Mean 0.1106
Std Dev 1.153

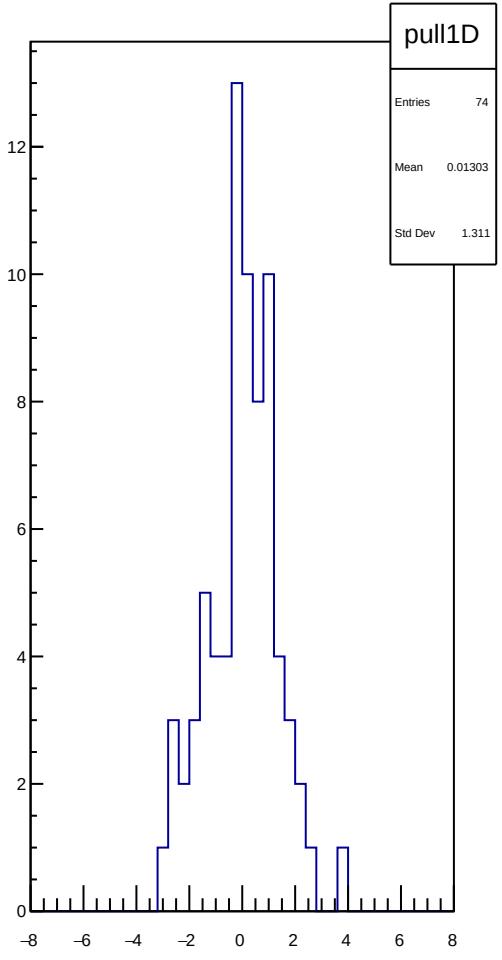

diff_bpm0l03Y_rms vs run
×10^3
χ^2 / ndf 1.029e+06 / 73
p0 2938 ± 4.267
140
120
100
80
60
40
20

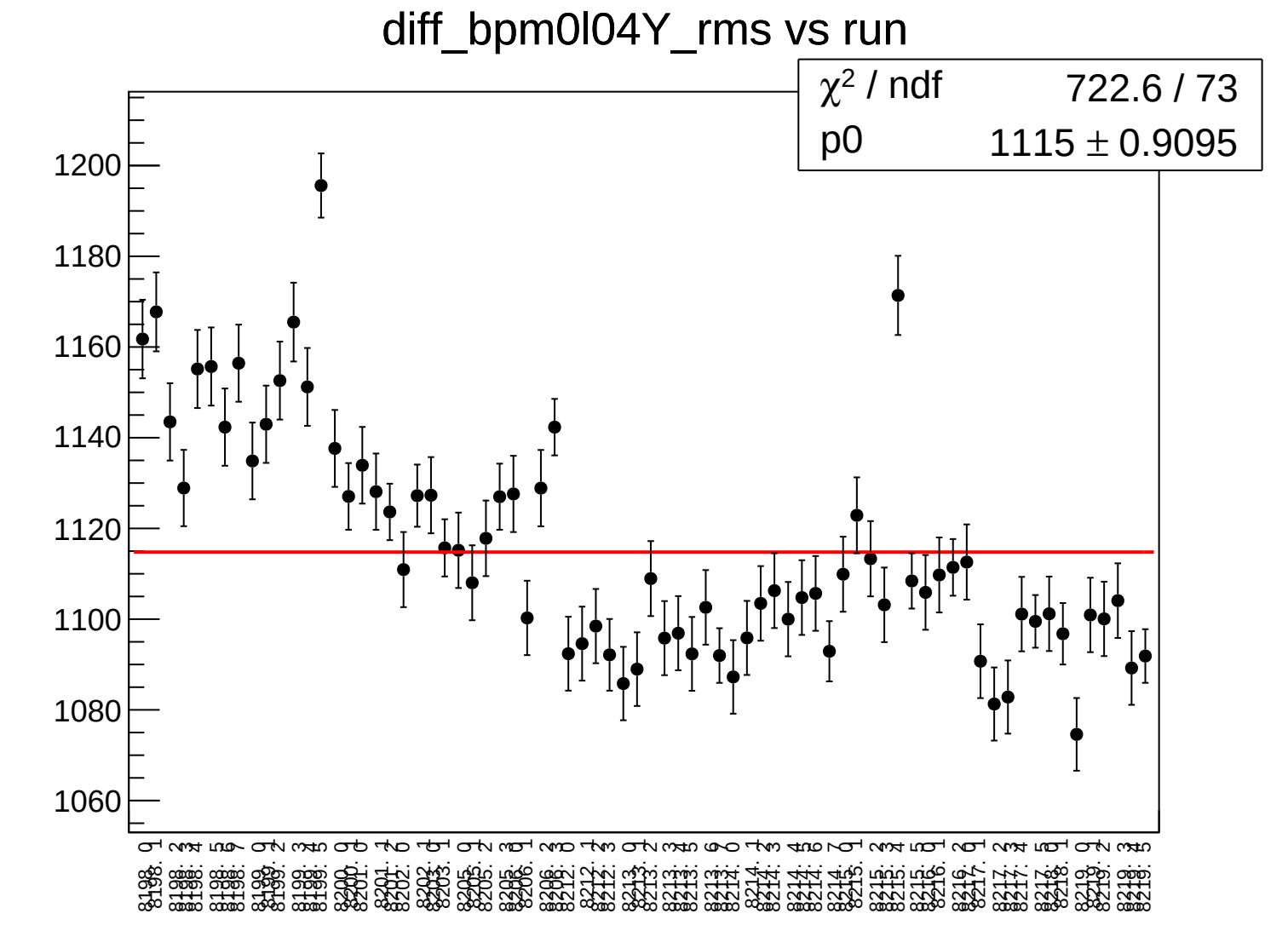

diff_bpm0l04X_mean vs run
χ^2 / ndf 98.43 / 73
p0 116.2 ± 4.483
pull
Entries 74
Mean 42.53
Std Dev 120.3

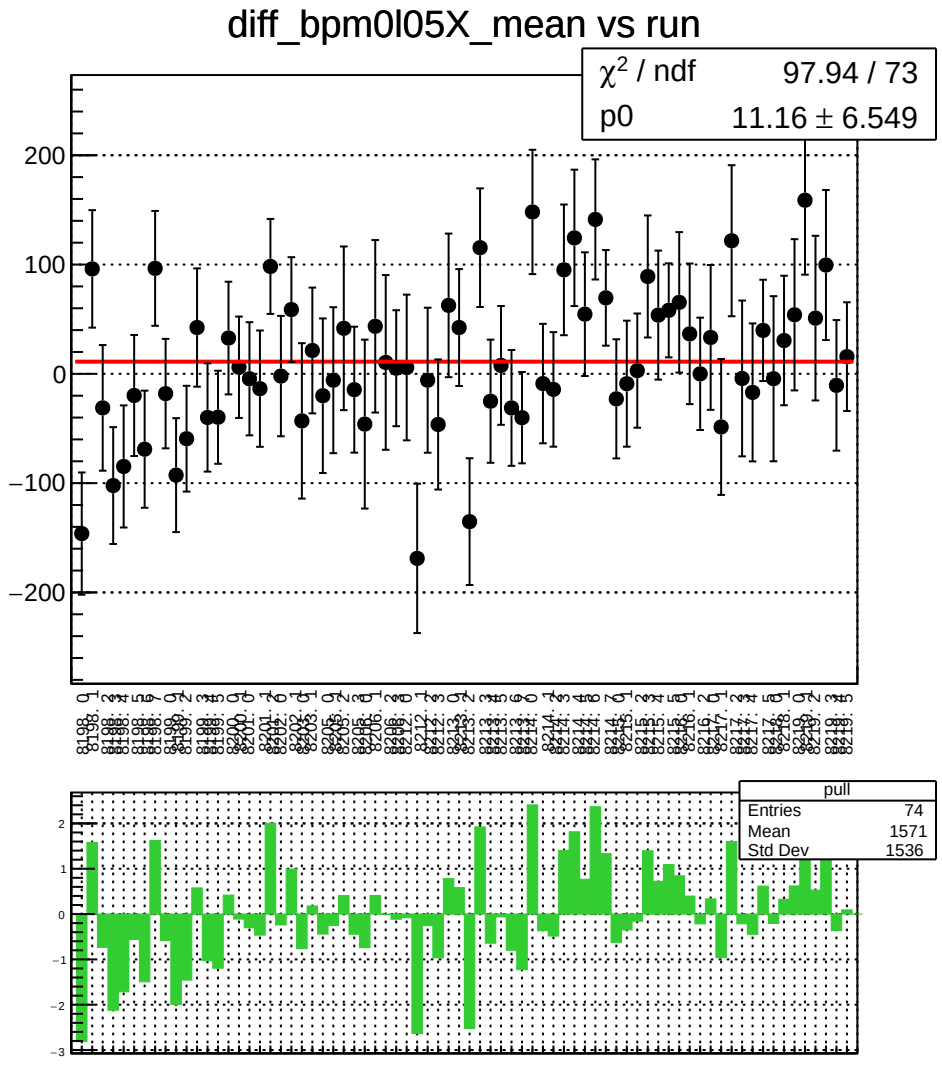

pull1D
Entries 74
Mean −0.01142
Std Dev 1.153

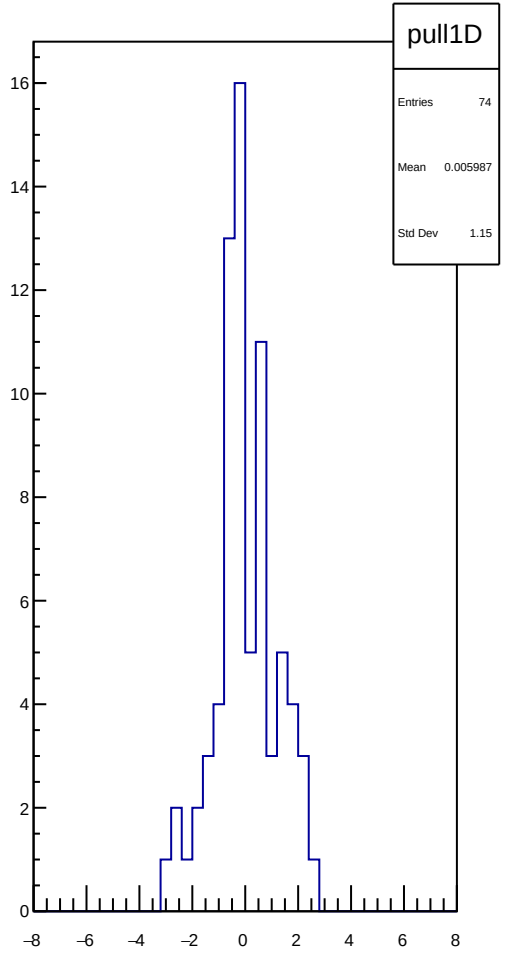

diff_bpm0l04X_rms vs run
χ² / ndf 503.8 / 73
p0 3886 ± 3.17
4100
4000
3900
3800
3700

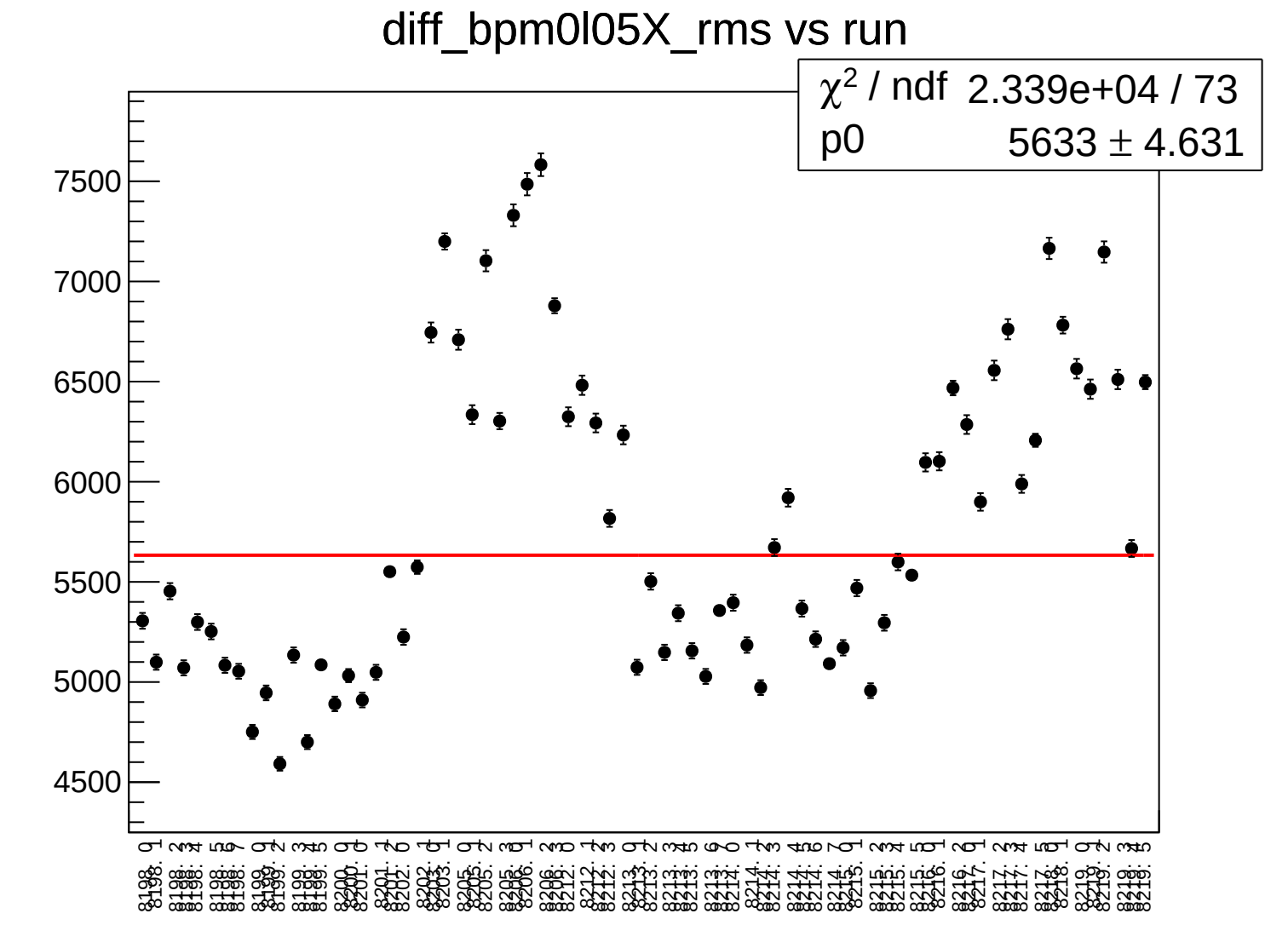

diff_bpm0l04Y_mean vs run
χ² / ndf 127.1 / 73
p0 −17.31 ± 1.286
pull
Entries 74
Mean −59.07
Std Dev 61.23

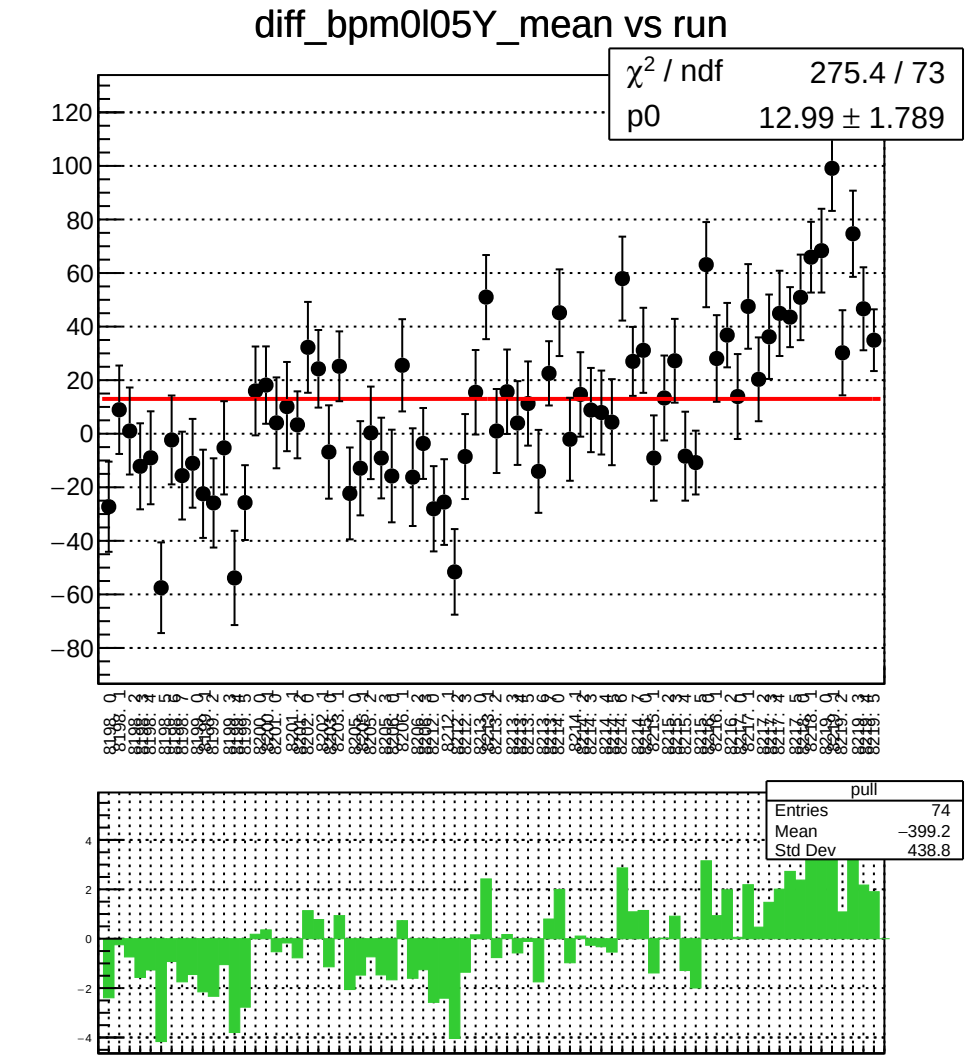

pull1D
Entries 74
Mean 0.01303
Std Dev 1.311

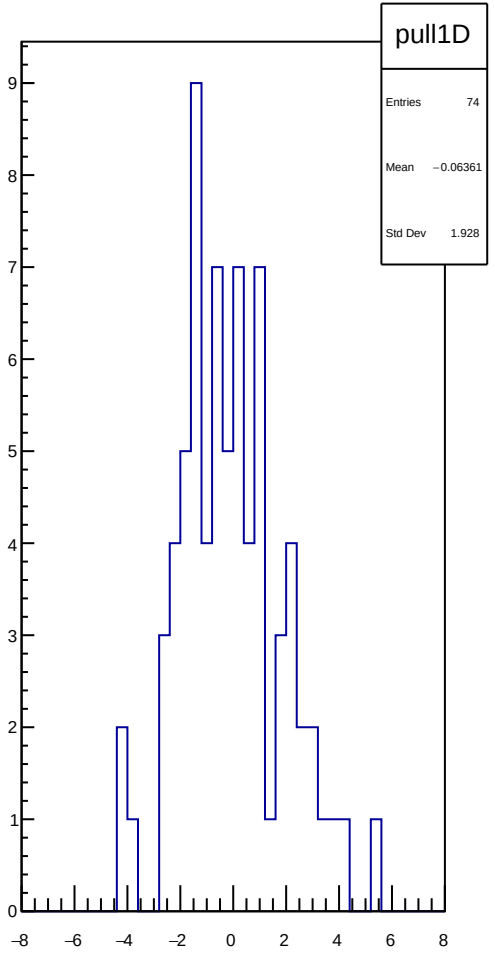

diff_bpm0l04Y_rms vs run
χ² / ndf 722.6 / 73
p0 1115 ± 0.9095
1200
1180
1160
1140
1120
1100
1080
1060

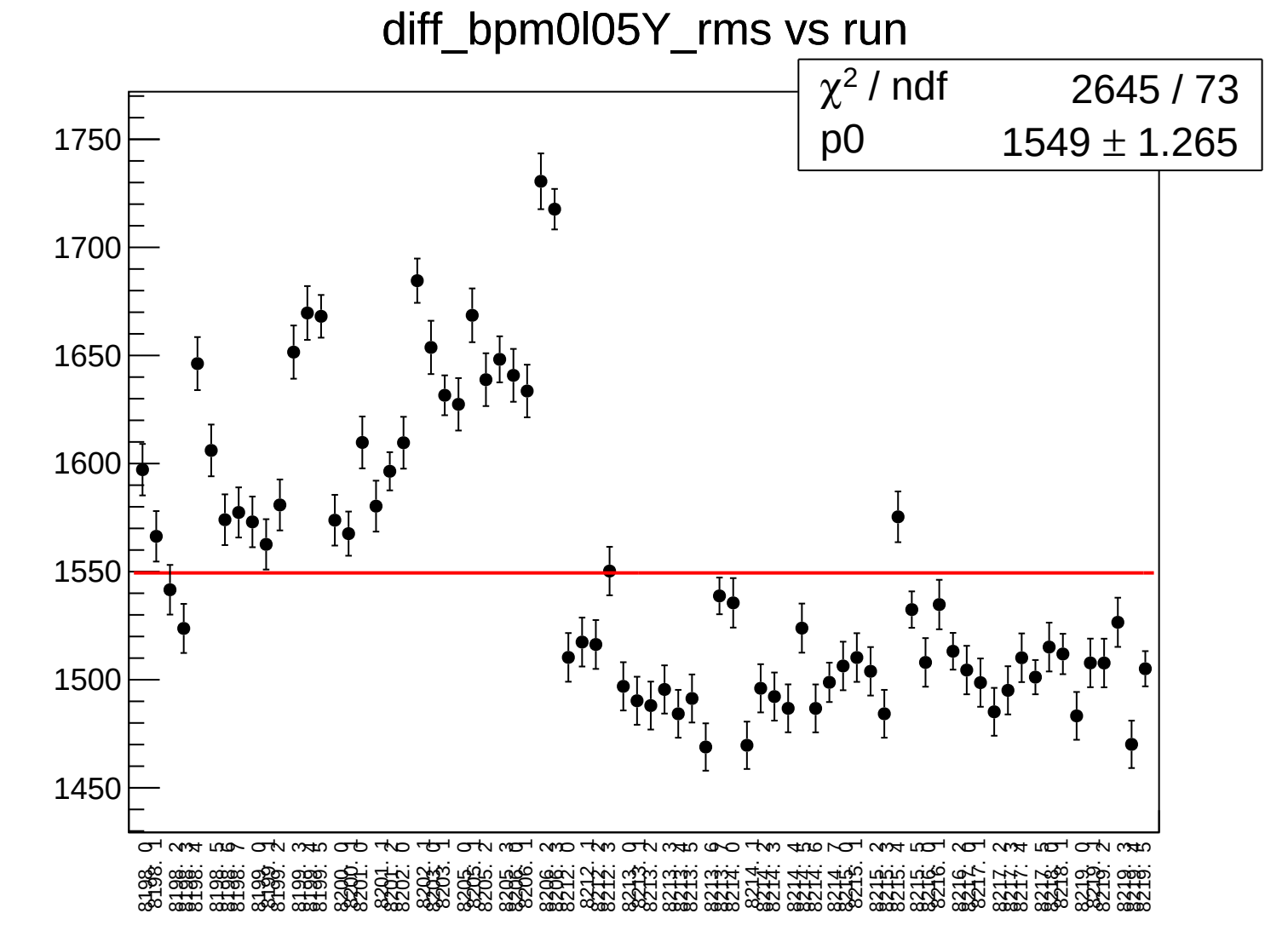

diff_bpm0l05X_mean vs run
χ² / ndf 97.94 / 73
p0 11.16 ± 6.549
pull
Entries 74
Mean 1571
Std Dev 1536

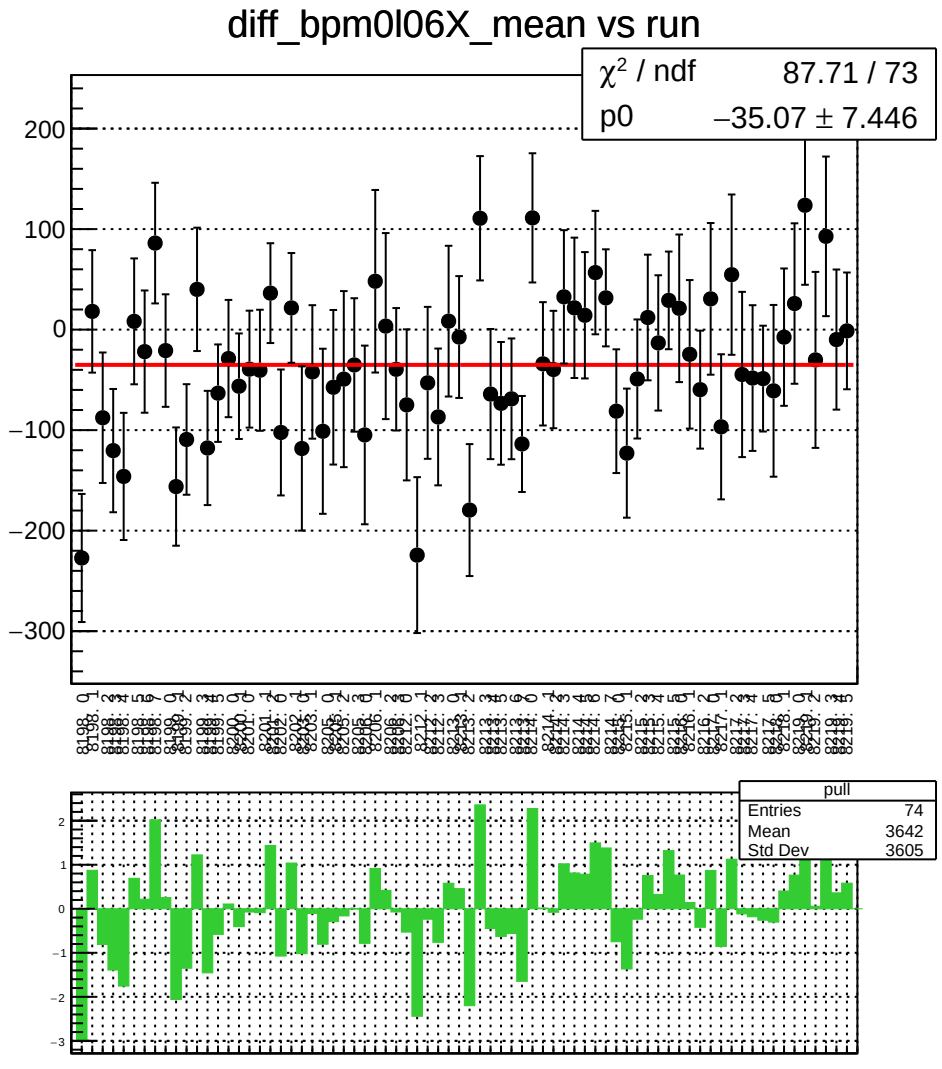

pull1D
Entries 74
Mean 0.005987
Std Dev 1.15

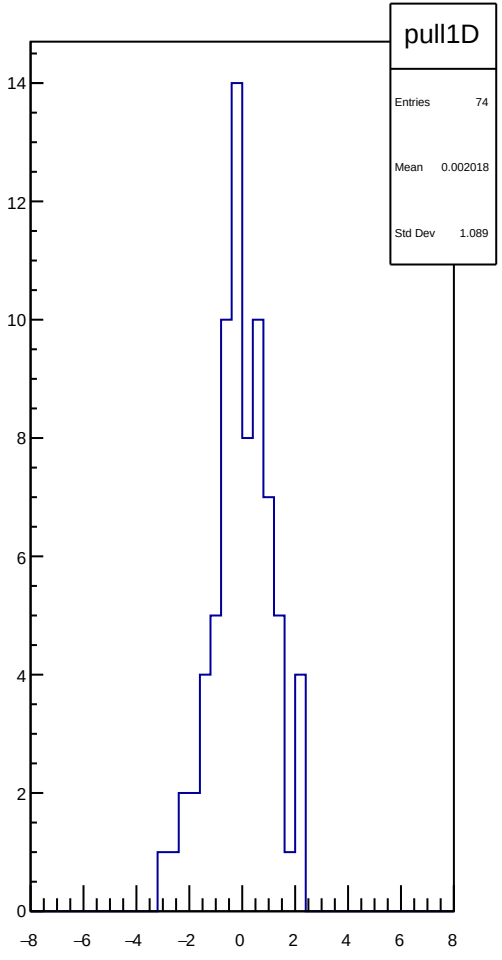

diff_bpm0l05X_rms vs run
χ² / ndf 2.339e+04 / 73
p0 5633 ± 4.631
7500
7000
6500
6000
5500
5000
4500

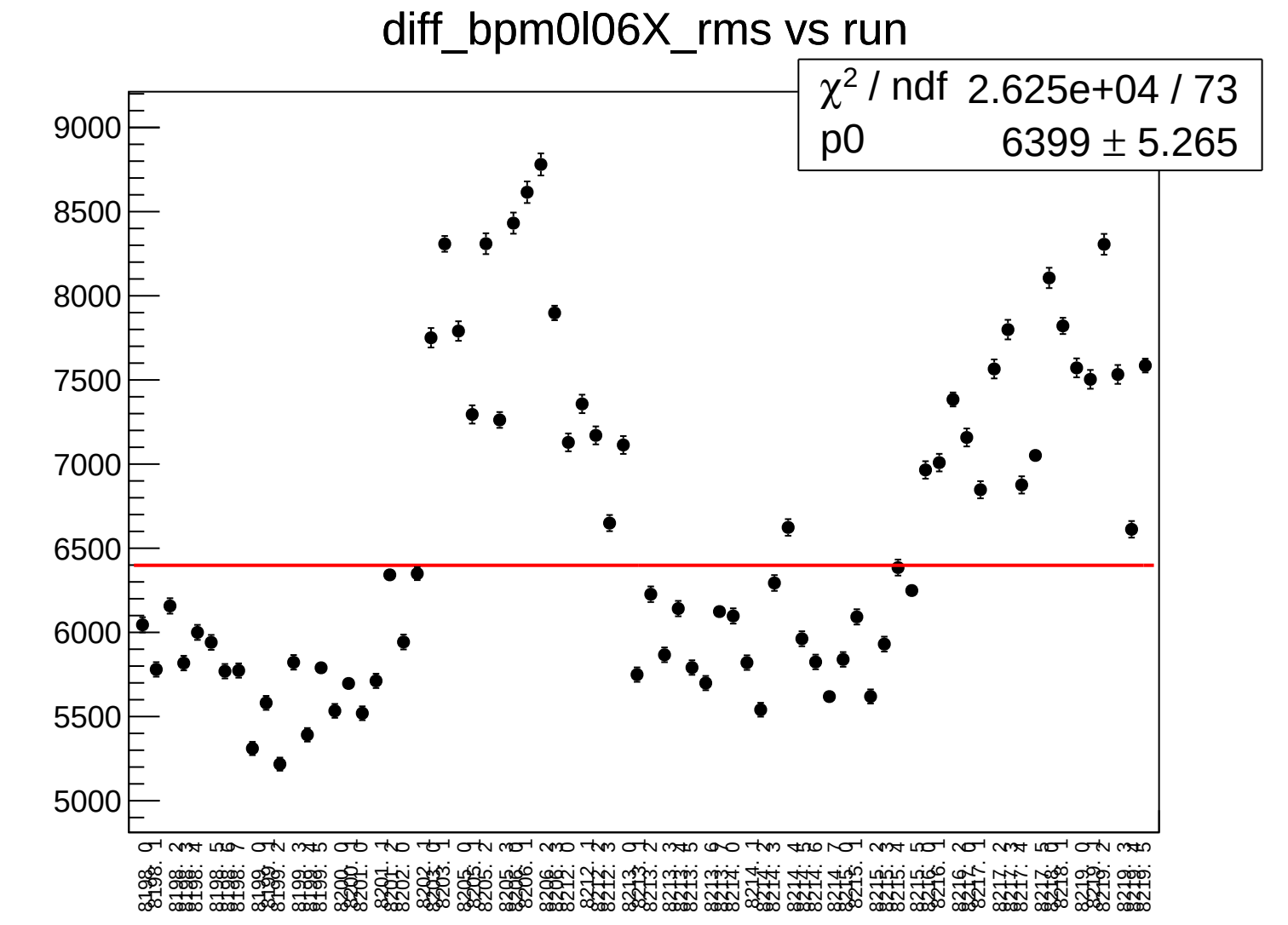

diff_bpm0l05Y_mean vs run
χ² / ndf 275.4 / 73
p0 12.99 ± 1.789
pull
Entries 74
Mean −399.2
Std Dev 438.8

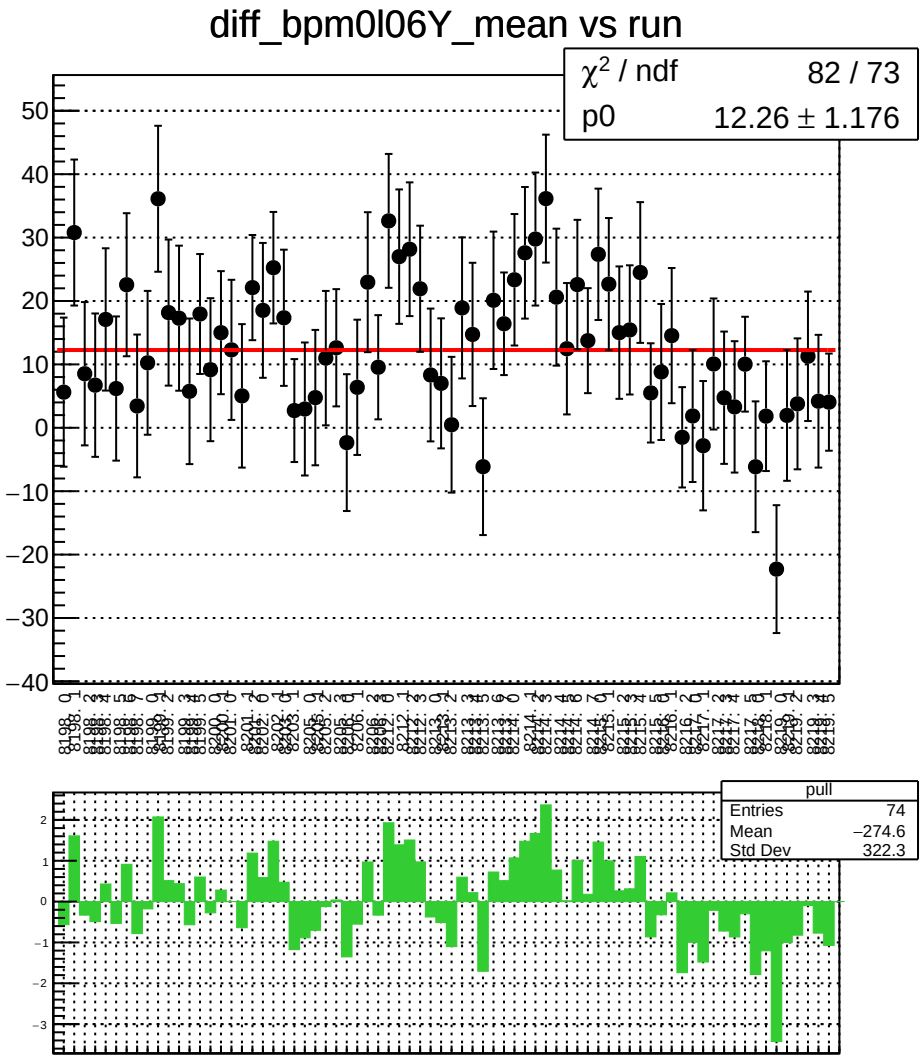

pull1D
Entries 74
Mean −0.06361
Std Dev 1.928

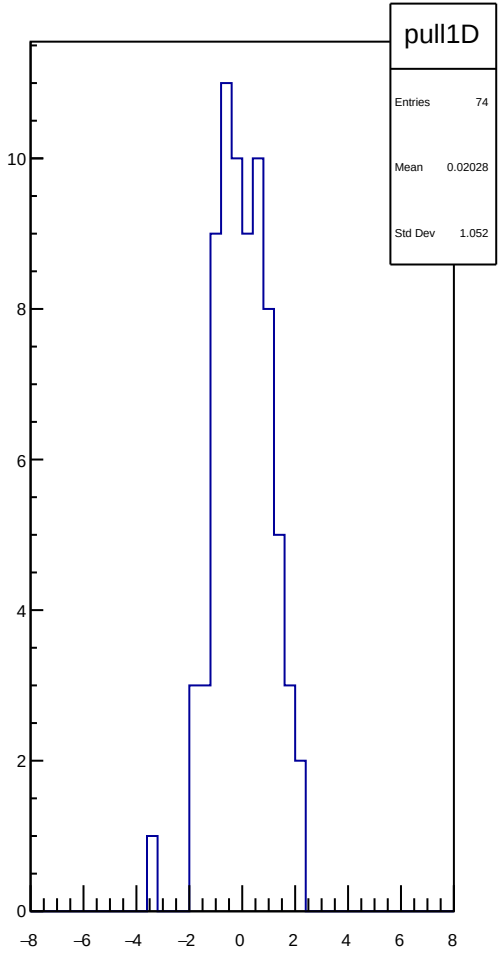

diff_bpm0l05Y_rms vs run
χ² / ndf 2645 / 73
p0 1549 ± 1.265
1750
1700
1650
1600
1550
1500
1450

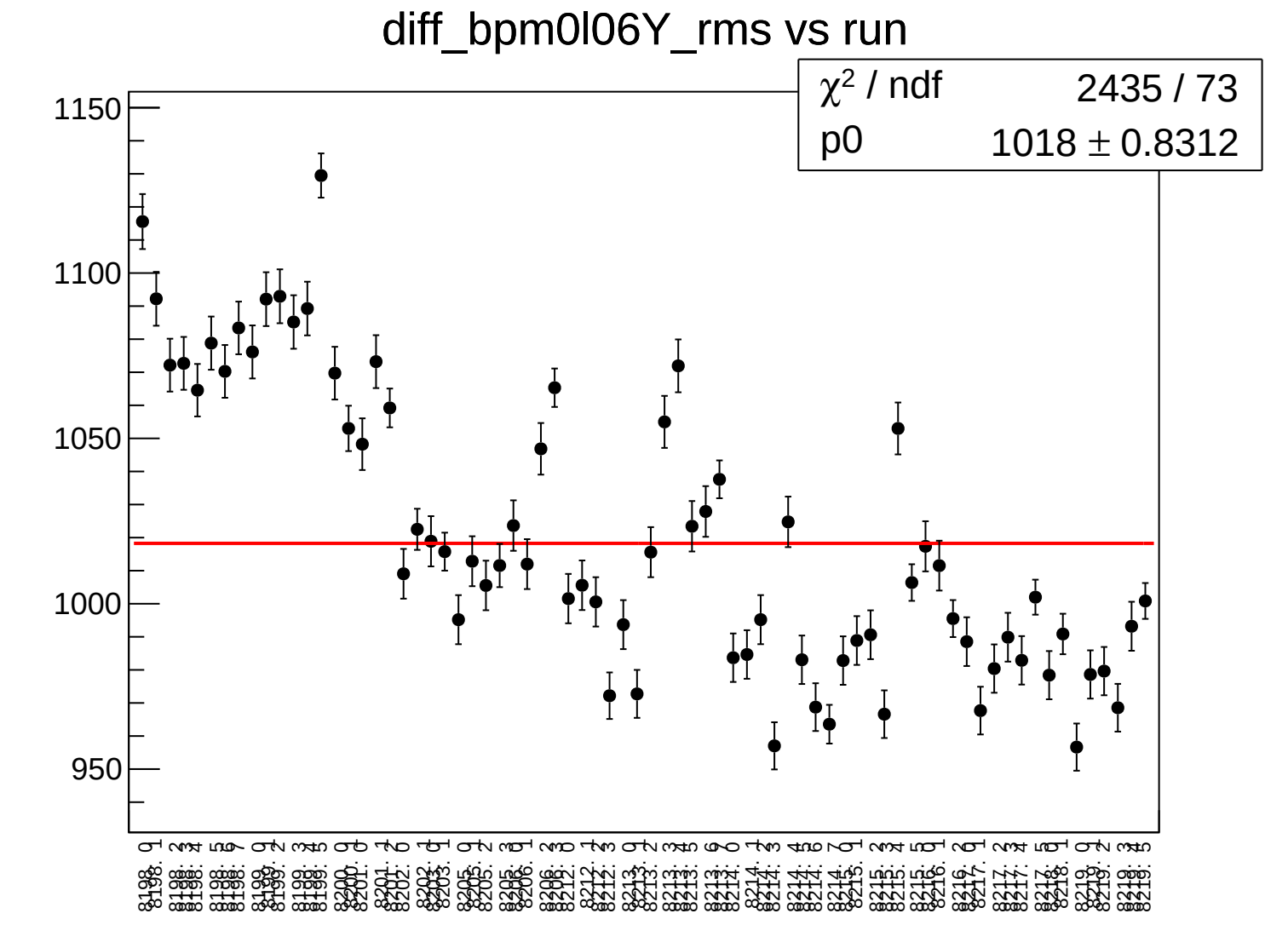

diff_bpm0l06X_mean vs run
χ² / ndf 87.71 / 73
p0 −35.07 ± 7.446
pull
Entries 74
Mean 3642
Std Dev 3605

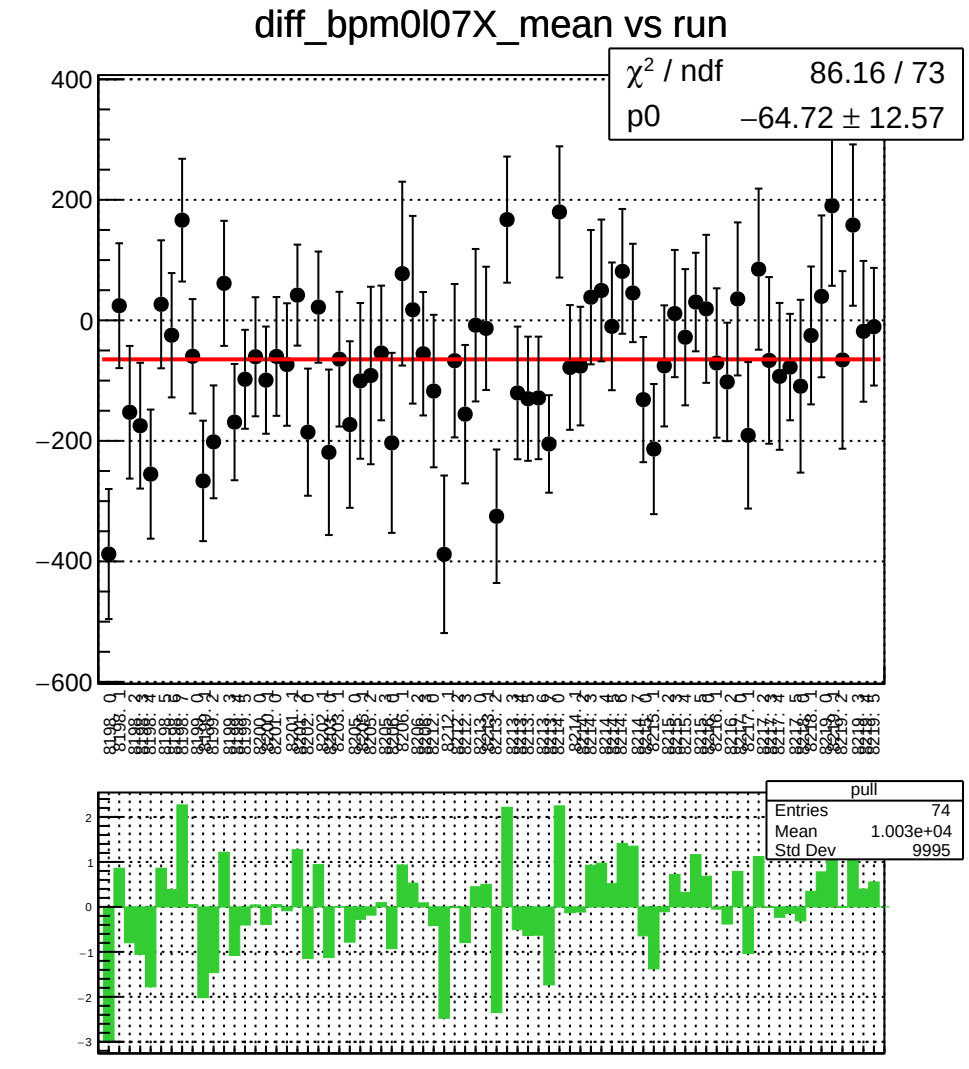

pull1D
Entries 74
Mean 0.002018
Std Dev 1.089

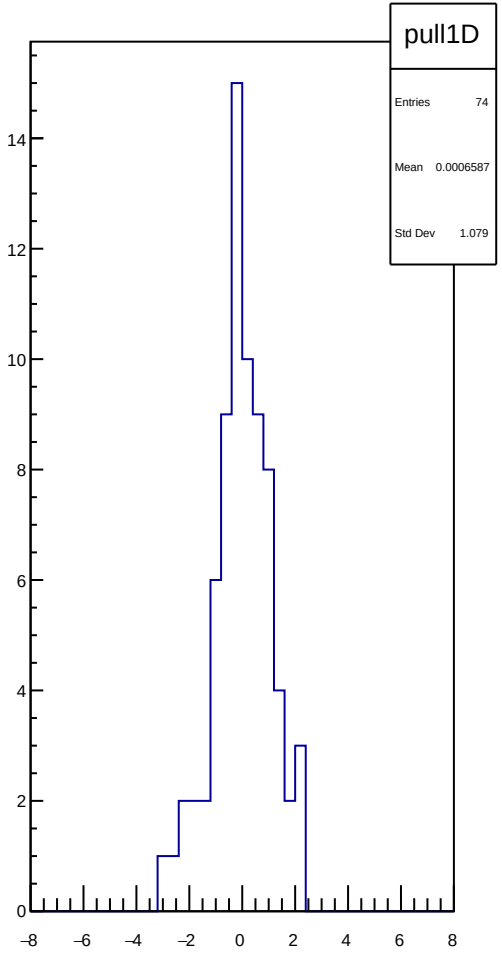

diff_bpm0l06X_rms vs run
χ^2 / ndf 2.625e+04 / 73
p0 6399 ± 5.265
9000
8500
8000
7500
7000
6500
6000
5500
5000

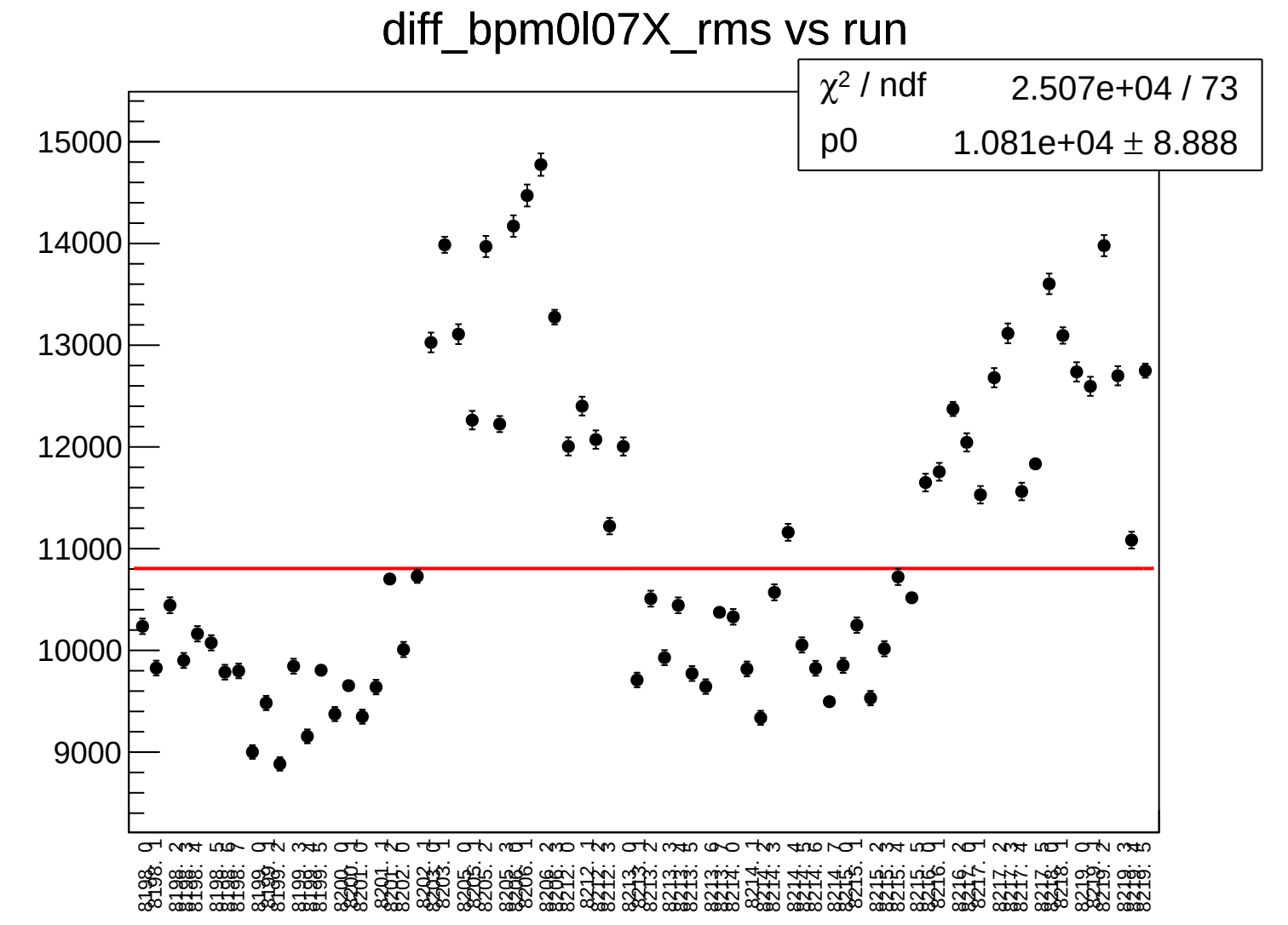

diff_bpm0l06Y_mean vs run
χ² / ndf 82 / 73
p0 12.26 ± 1.176
pull
Entries 74
Mean −274.6
Std Dev 322.3

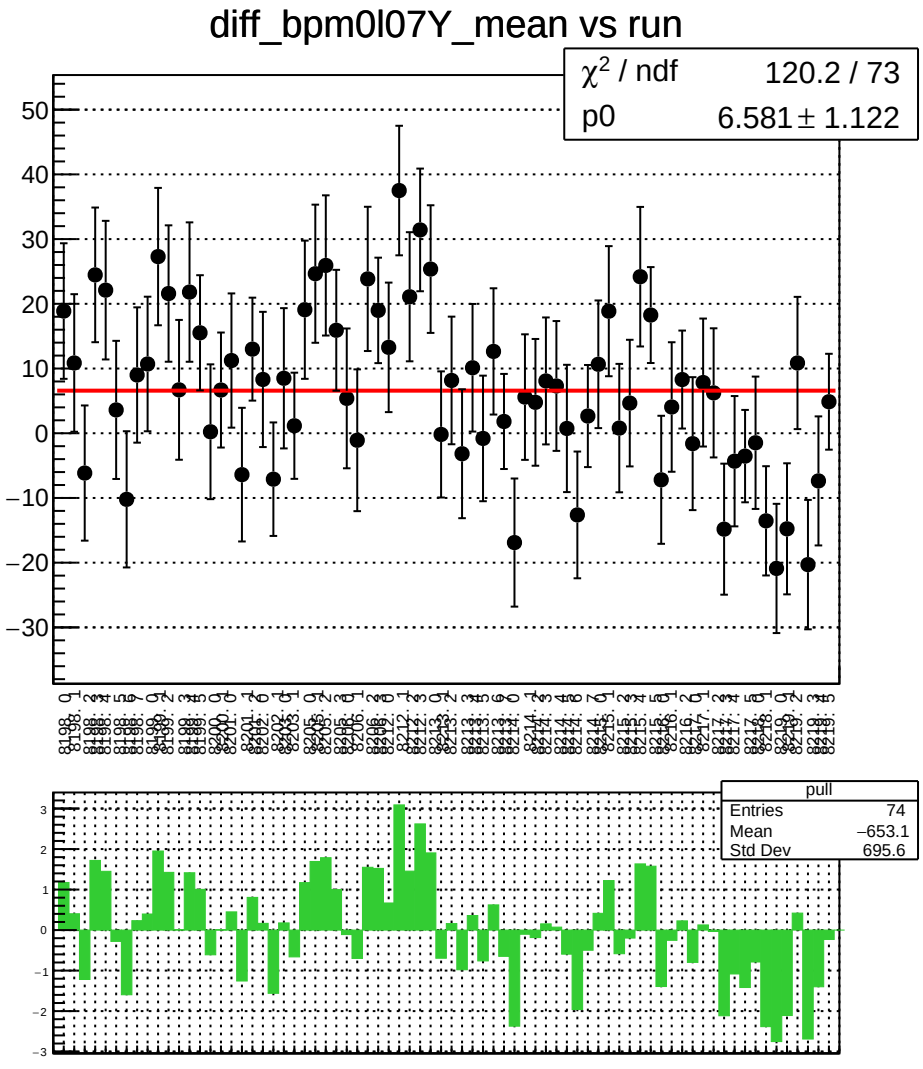

pull1D
Entries 74
Mean 0.02028
Std Dev 1.052

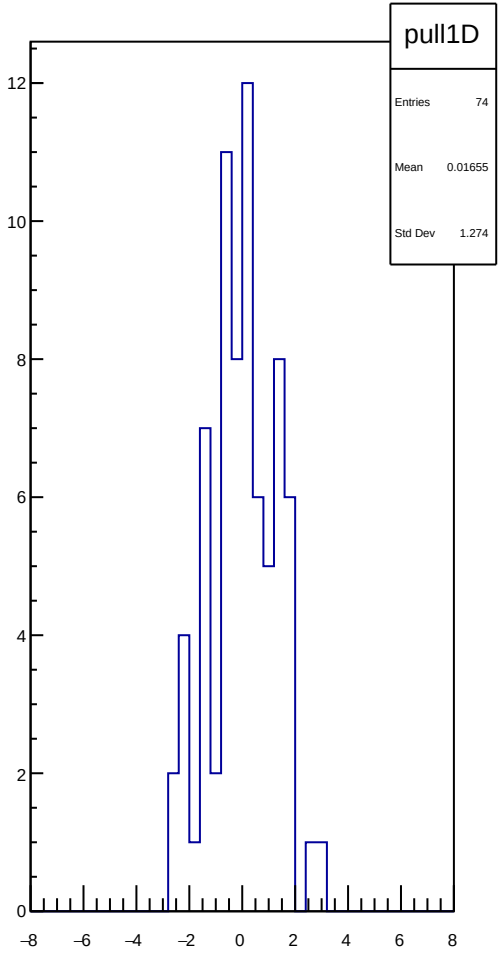

diff_bpm0l06Y_rms vs run
χ² / ndf 2435 / 73
p0 1018 ± 0.8312
1150
1100
1050
1000
950

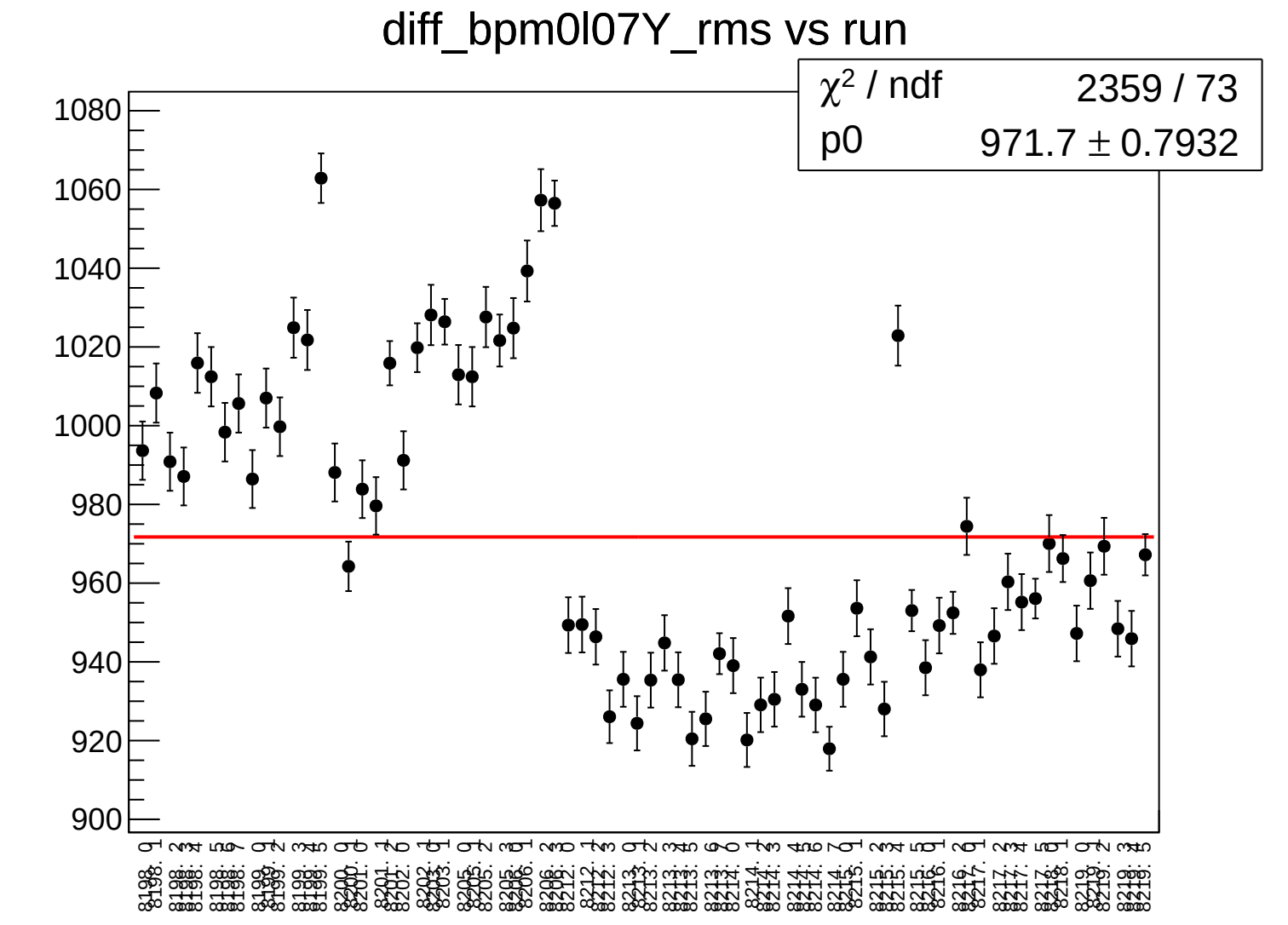

diff_bpm0l07X_mean vs run
χ² / ndf 86.16 / 73
p0 −64.72 ± 12.57
pull
Entries 74
Mean 1.003e+04
Std Dev 9995

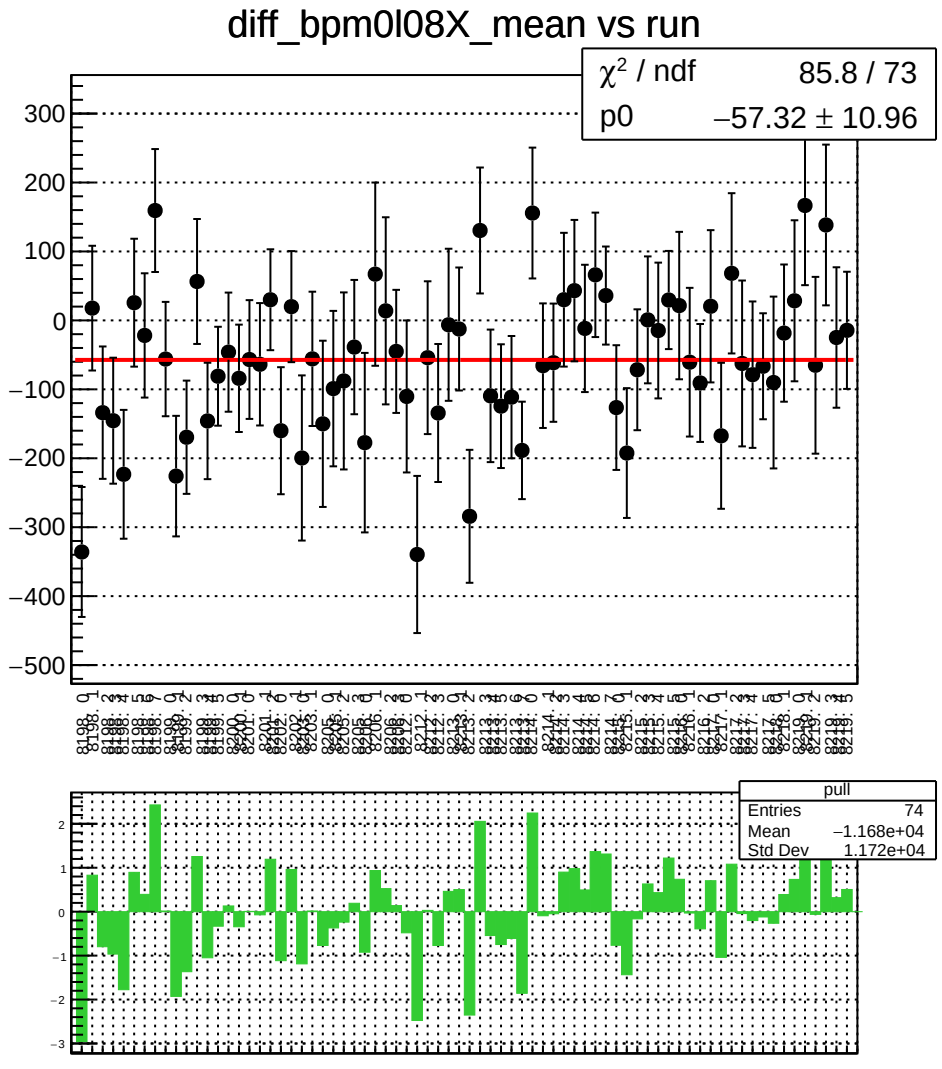

pull1D
Entries 74
Mean 0.0006587
Std Dev 1.079

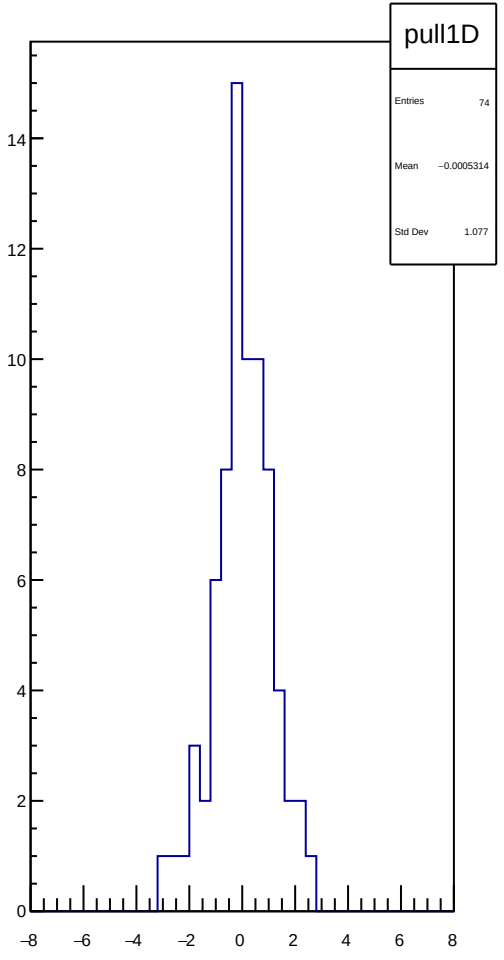

diff_bpm0l07X_rms vs run
χ² / ndf 2.507e+04 / 73
p0 1.081e+04 ± 8.888
15000
14000
13000
12000
11000
10000
9000

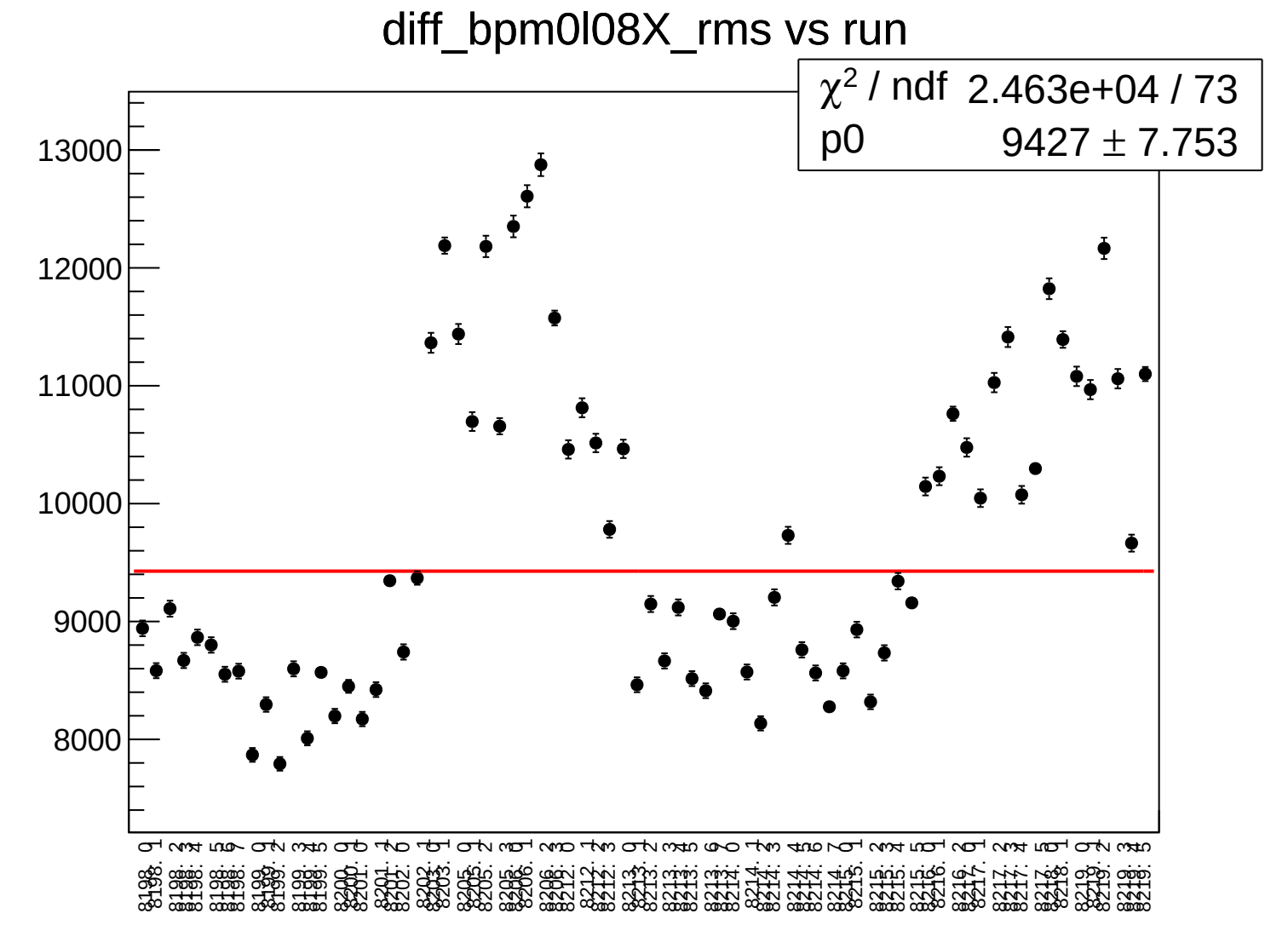

diff_bpm0l07Y_mean vs run
χ^2 / ndf 120.2 / 73
p0 6.581 ± 1.122
pull
Entries 74
Mean −653.1
Std Dev 695.6

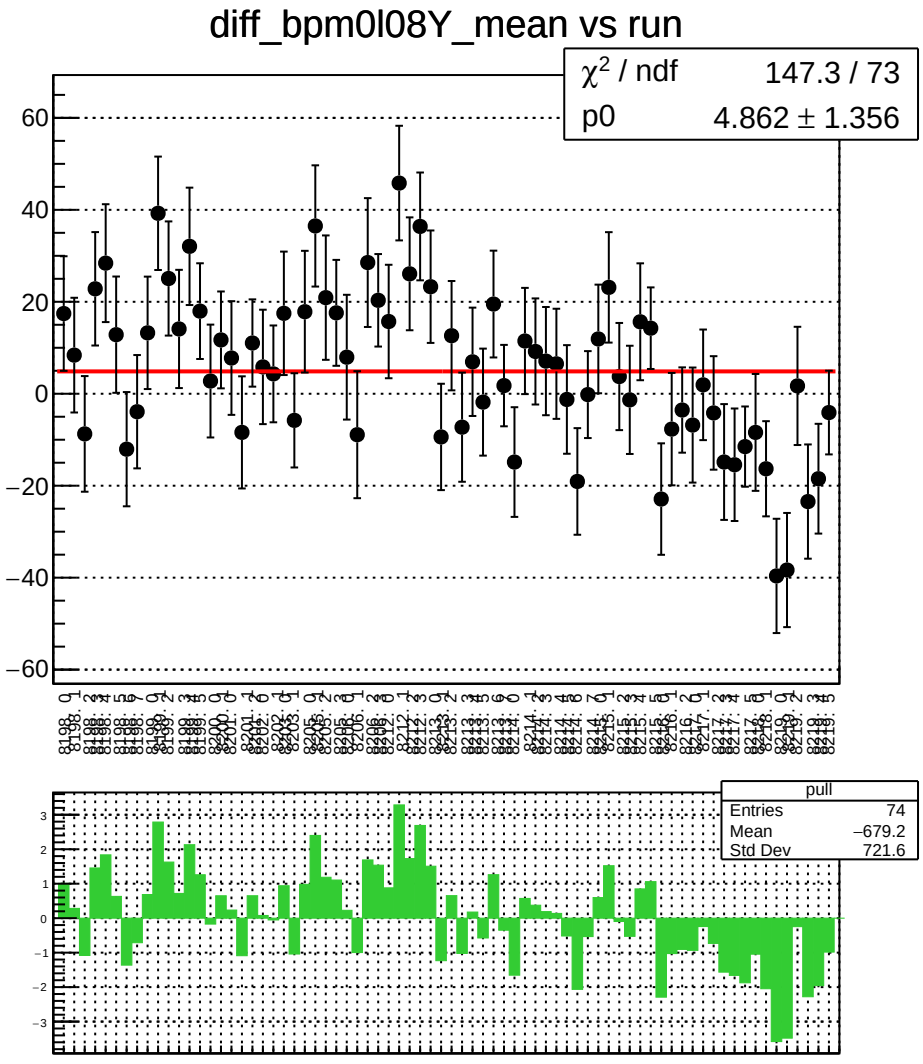

pull1D
Entries 74
Mean 0.01655
Std Dev 1.274

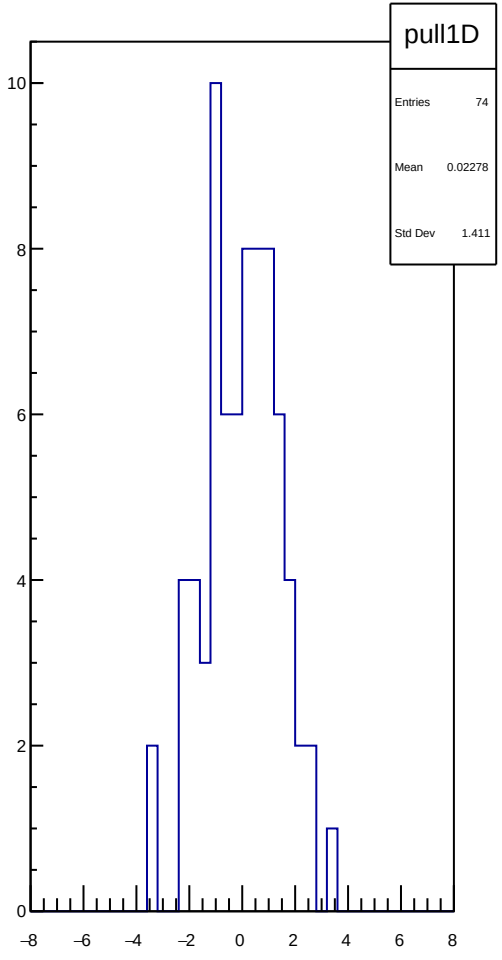

diff_bpm0l07Y_rms vs run
χ² / ndf 2359 / 73
p0 971.7 ± 0.7932
1080
1060
1040
1020
1000
980
960
940
920
900

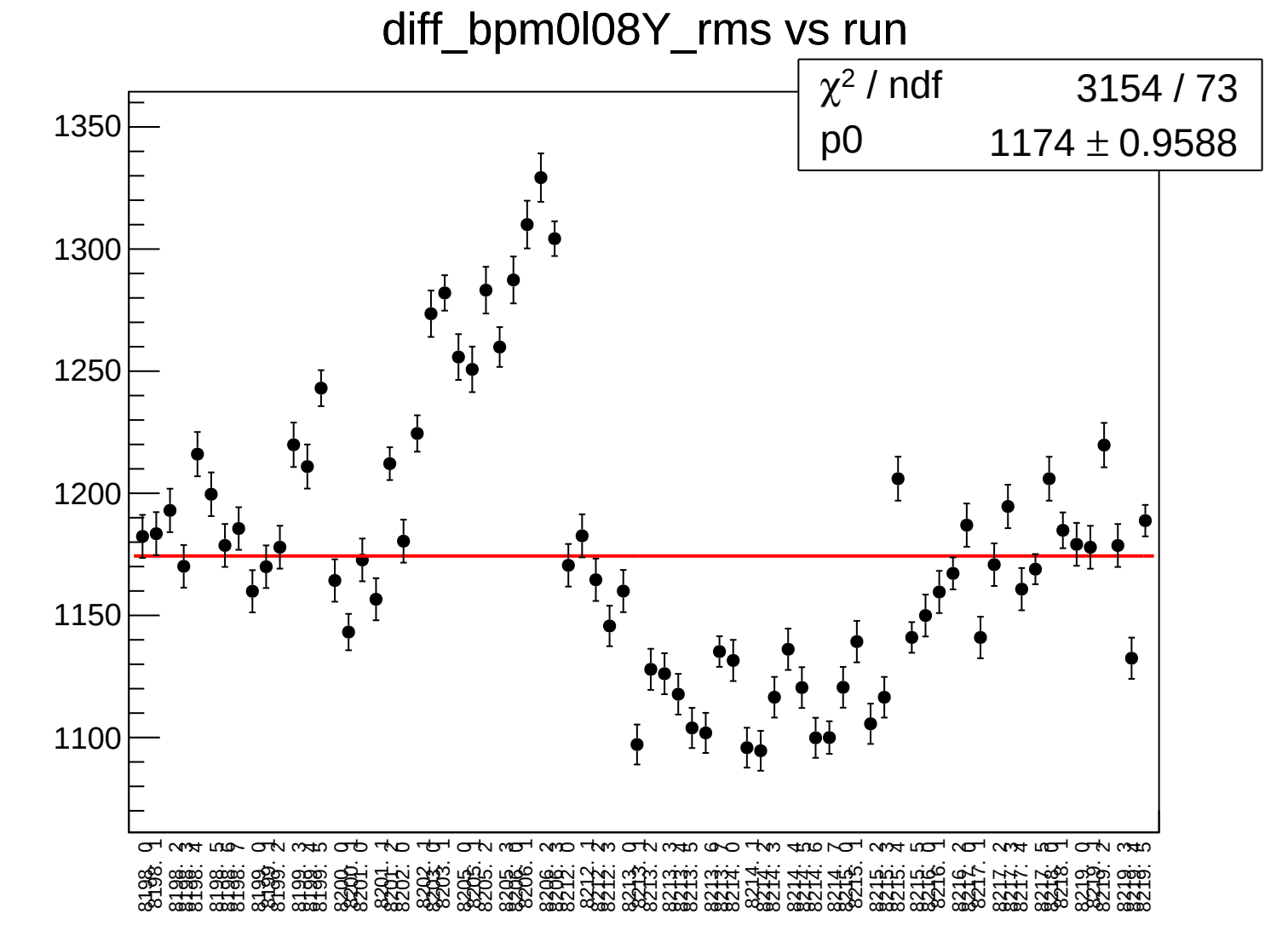

diff_bpm0l08X_mean vs run
χ² / ndf 85.8 / 73
p0 −57.32 ± 10.96
pull
Entries 74
Mean −1.168e+04
Std Dev 1.172e+04

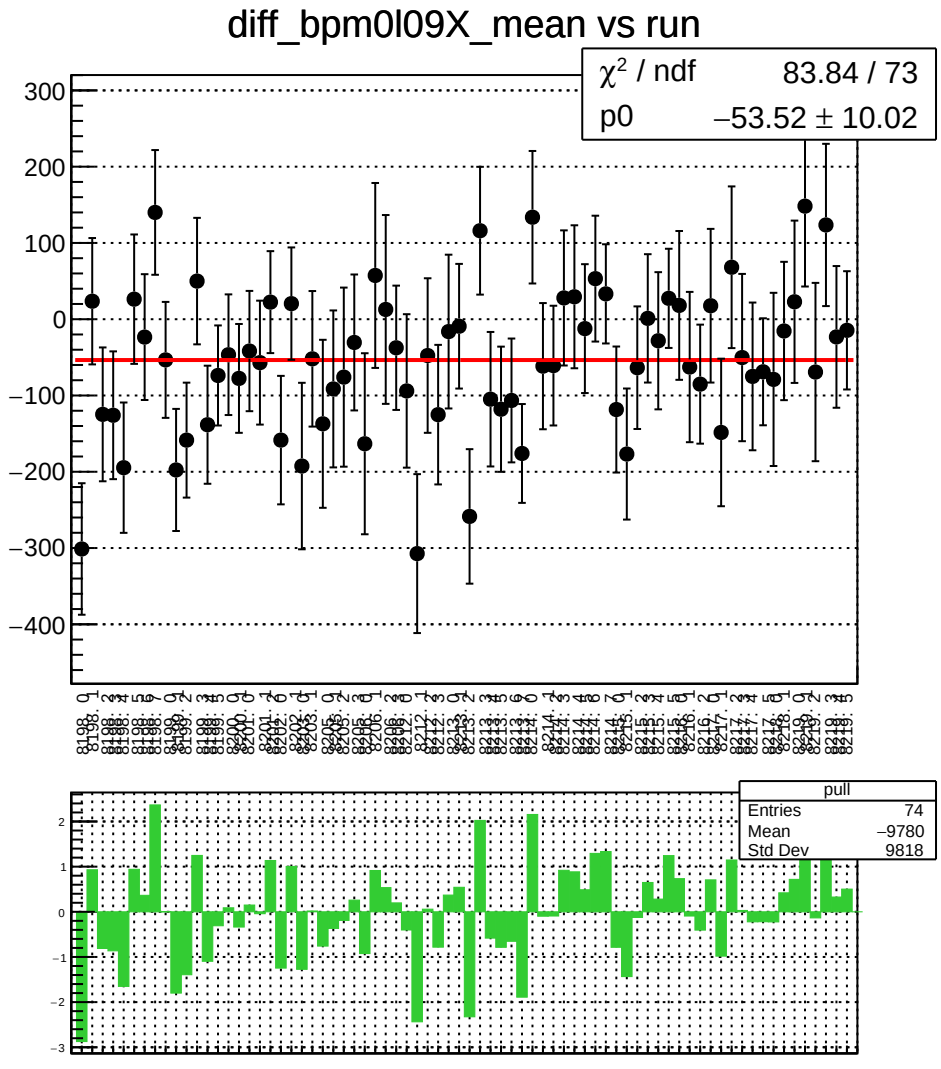

pull1D
Entries 74
Mean −0.0005314
Std Dev 1.077

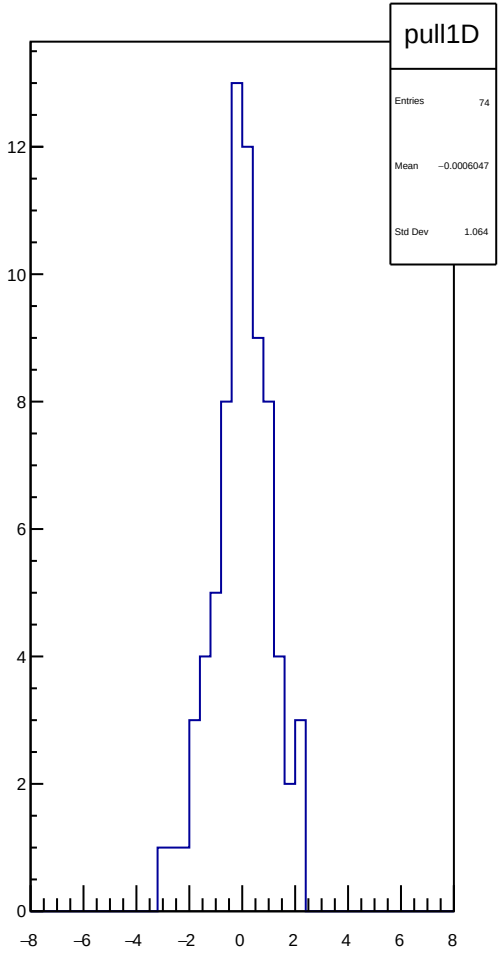

diff_bpm0l08X_rms vs run
χ² / ndf 2.463e+04 / 73
p0 9427 ± 7.753
13000
12000
11000
10000
9000
8000

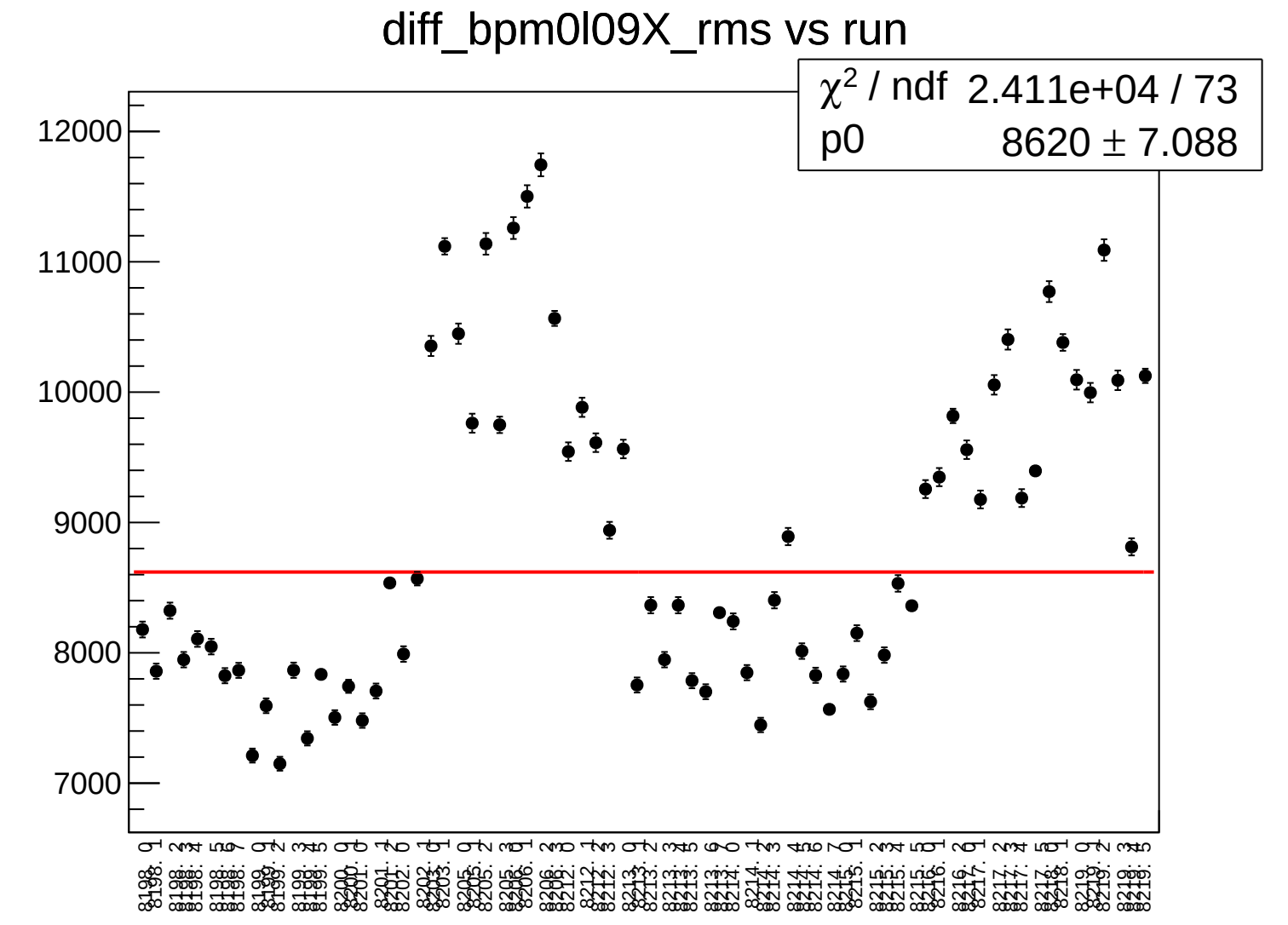

diff_bpm0l08Y_mean vs run
χ^2 / ndf 147.3 / 73
p0 4.862 ± 1.356
pull
Entries 74
Mean −679.2
Std Dev 721.6

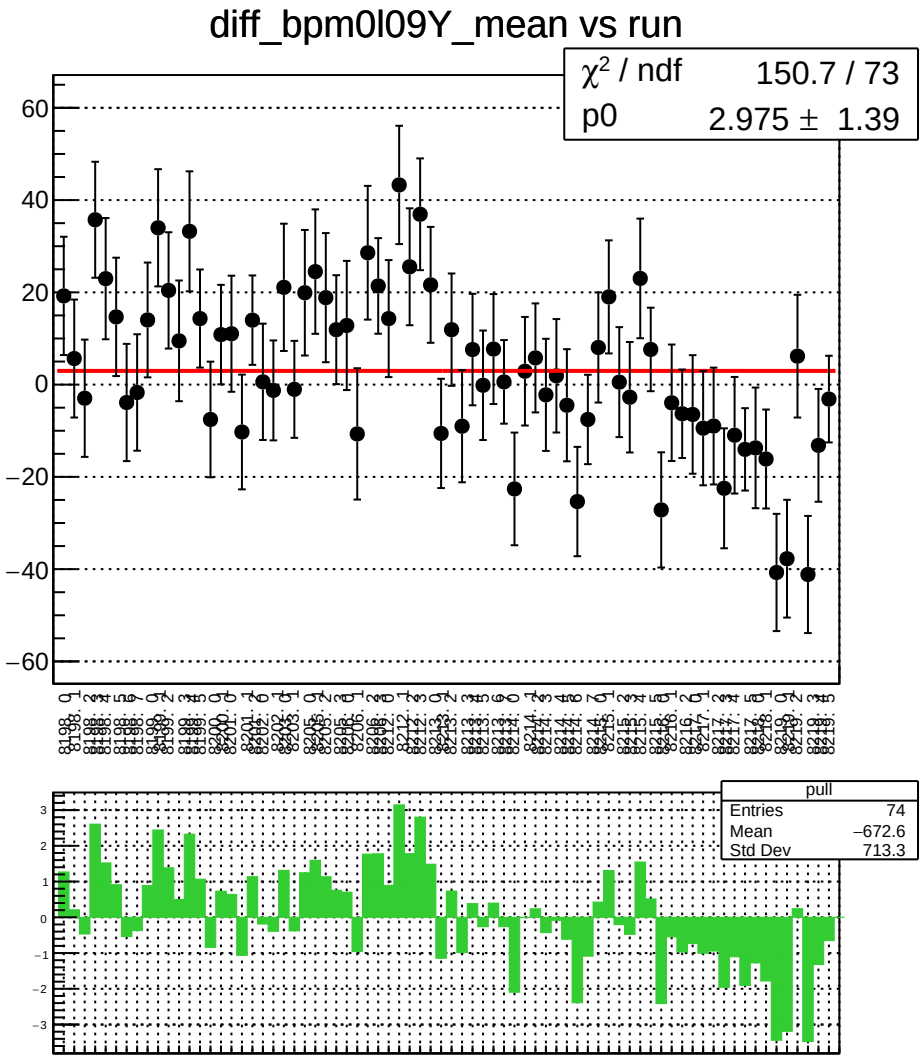

pull1D
Entries 74
Mean 0.02278
Std Dev 1.411

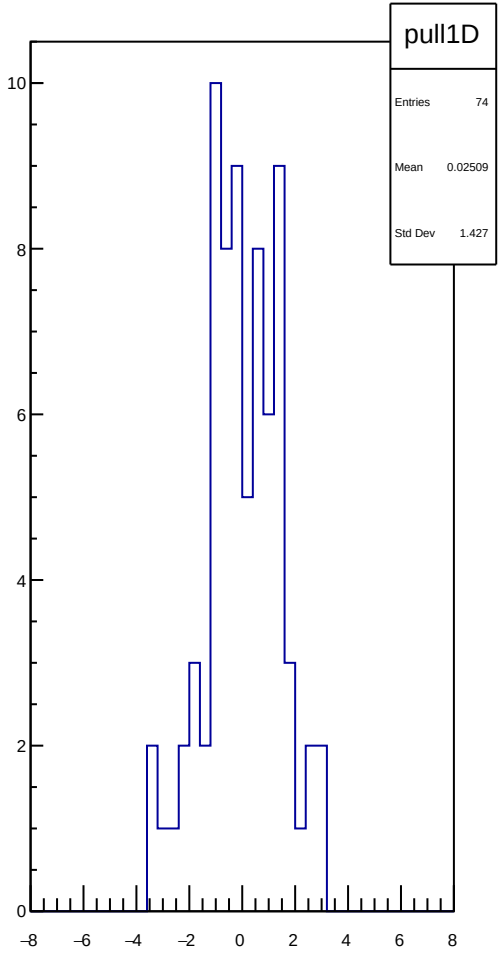

diff_bpm0l08Y_rms vs run
χ² / ndf 3154 / 73
p0 1174 ± 0.9588
1350
1300
1250
1200
1150
1100

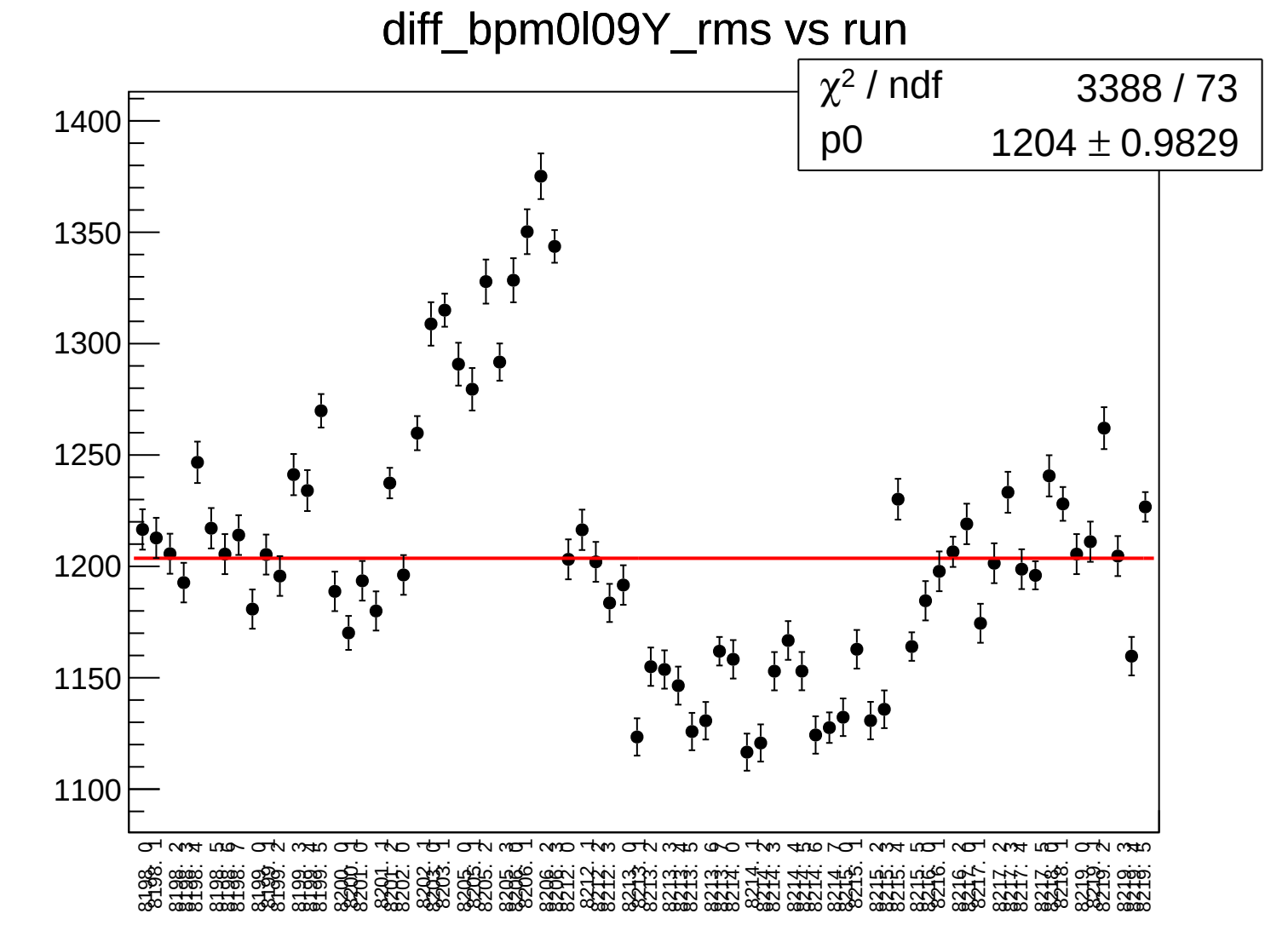

diff_bpm0l09X_mean vs run
χ² / ndf 83.84 / 73
p0 −53.52 ± 10.02
pull
Entries 74
Mean −9780
Std Dev 9818

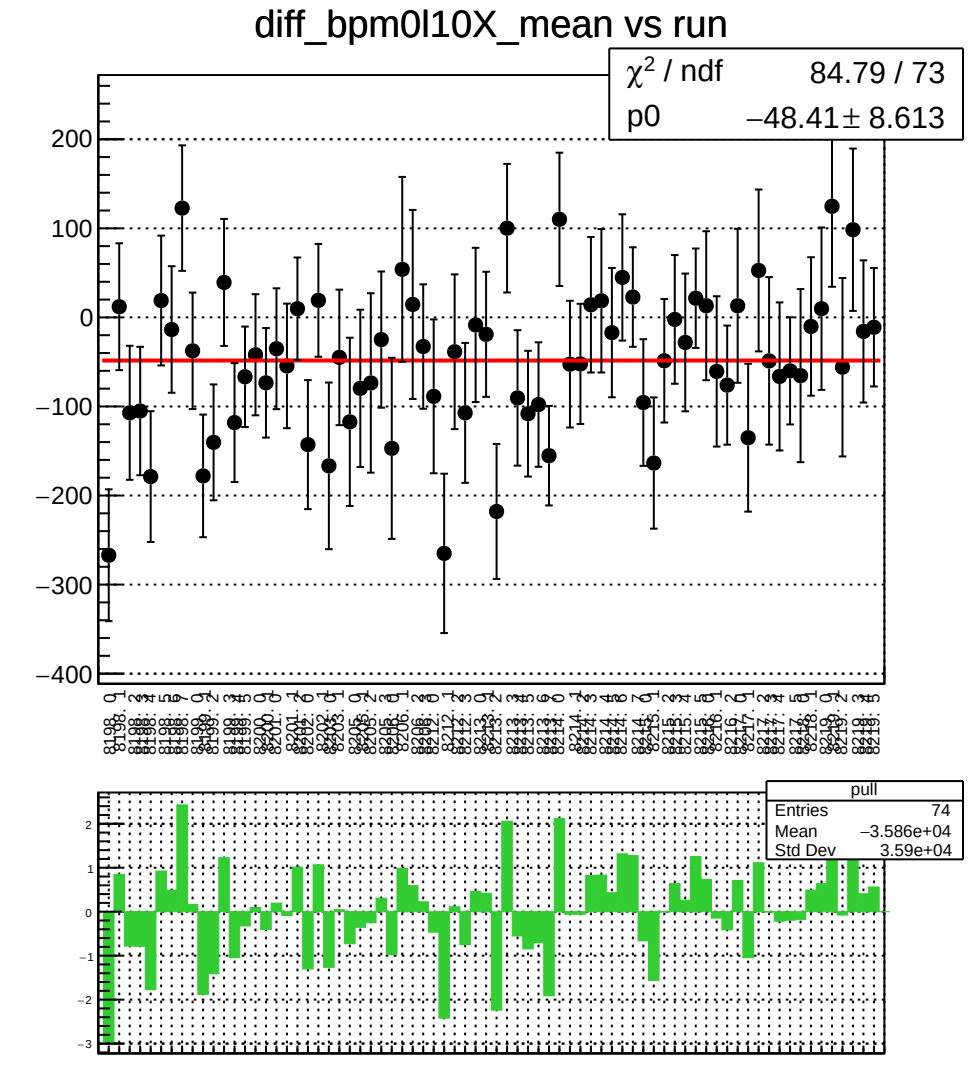

pull1D
Entries 74
Mean −0.0006047
Std Dev 1.064

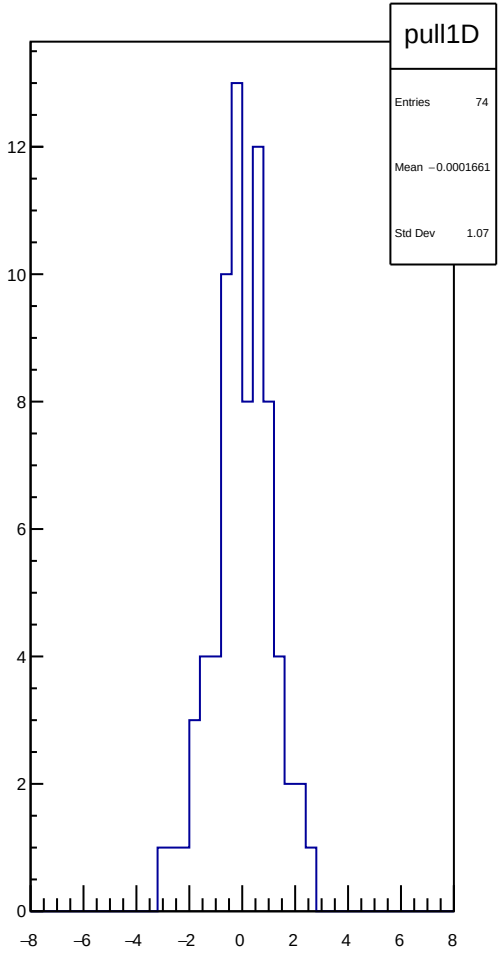

diff_bpm0l09X_rms vs run
χ² / ndf 2.411e+04 / 73
p0 8620 ± 7.088
12000
11000
10000
9000
8000
7000

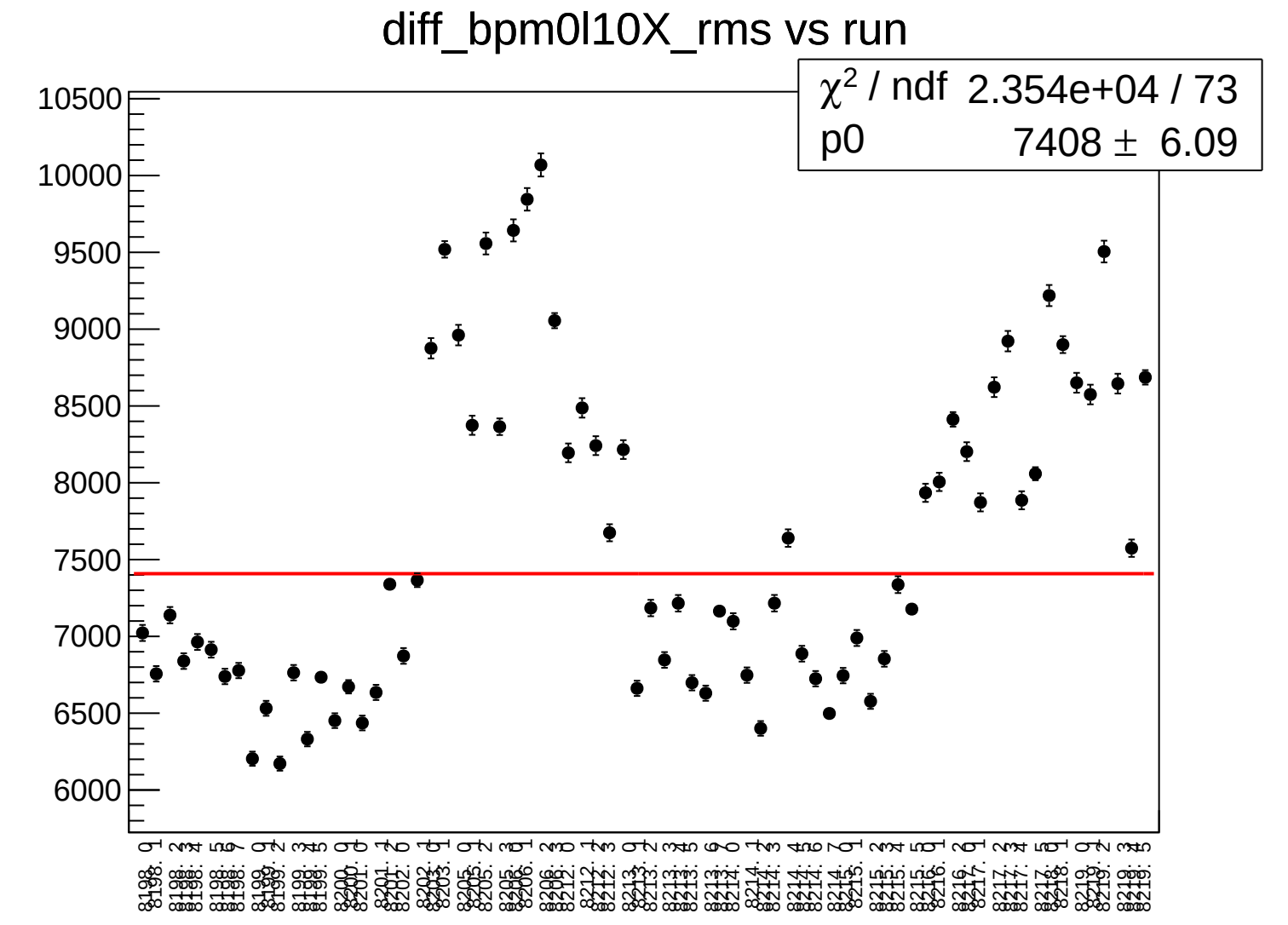

diff_bpm0l09Y_mean vs run
χ² / ndf 150.7 / 73
p0 2.975 ± 1.39
pull
Entries 74
Mean −672.6
Std Dev 713.3

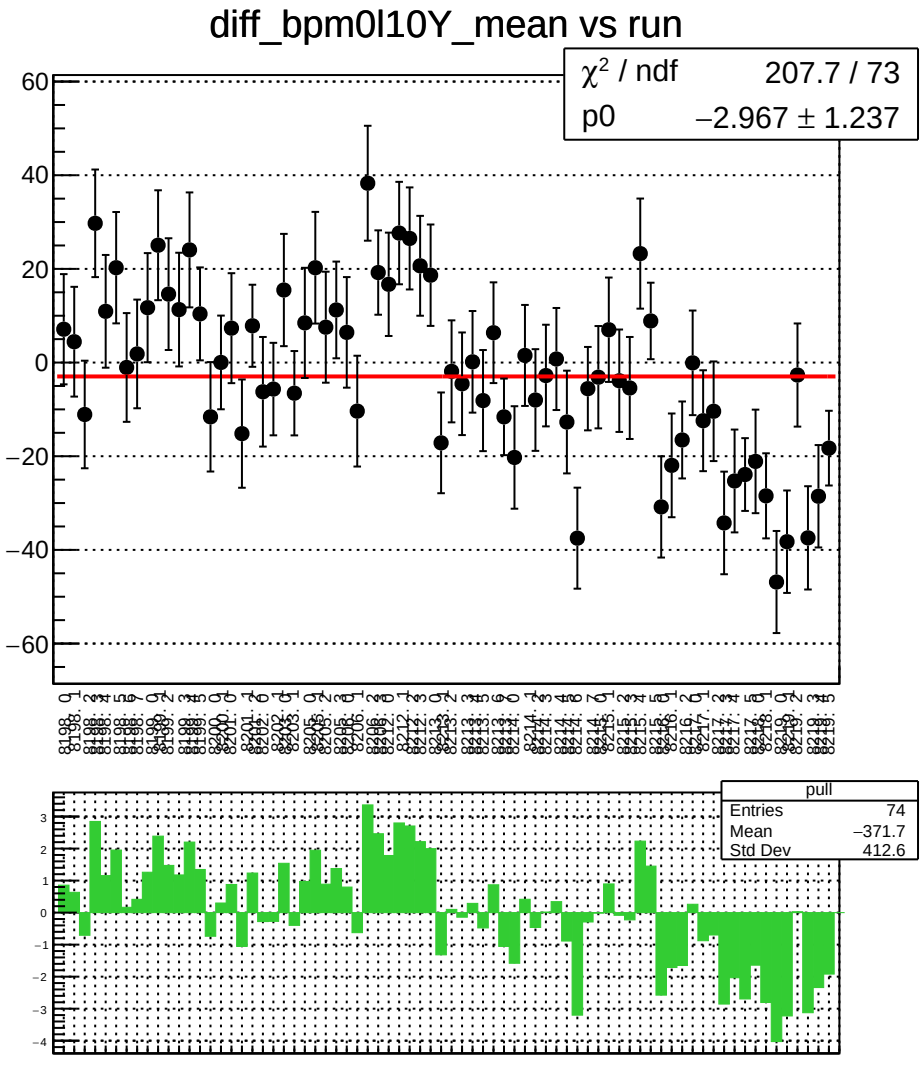

pull1D
Entries 74
Mean 0.02509
Std Dev 1.427

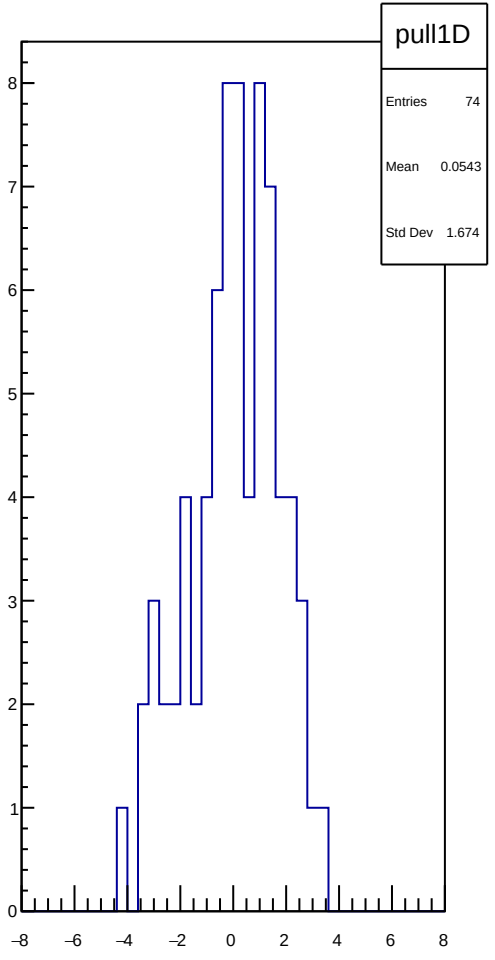

diff_bpm0l09Y_rms vs run
χ² / ndf 3388 / 73
p0 1204 ± 0.9829
1400
1350
1300
1250
1200
1150
1100

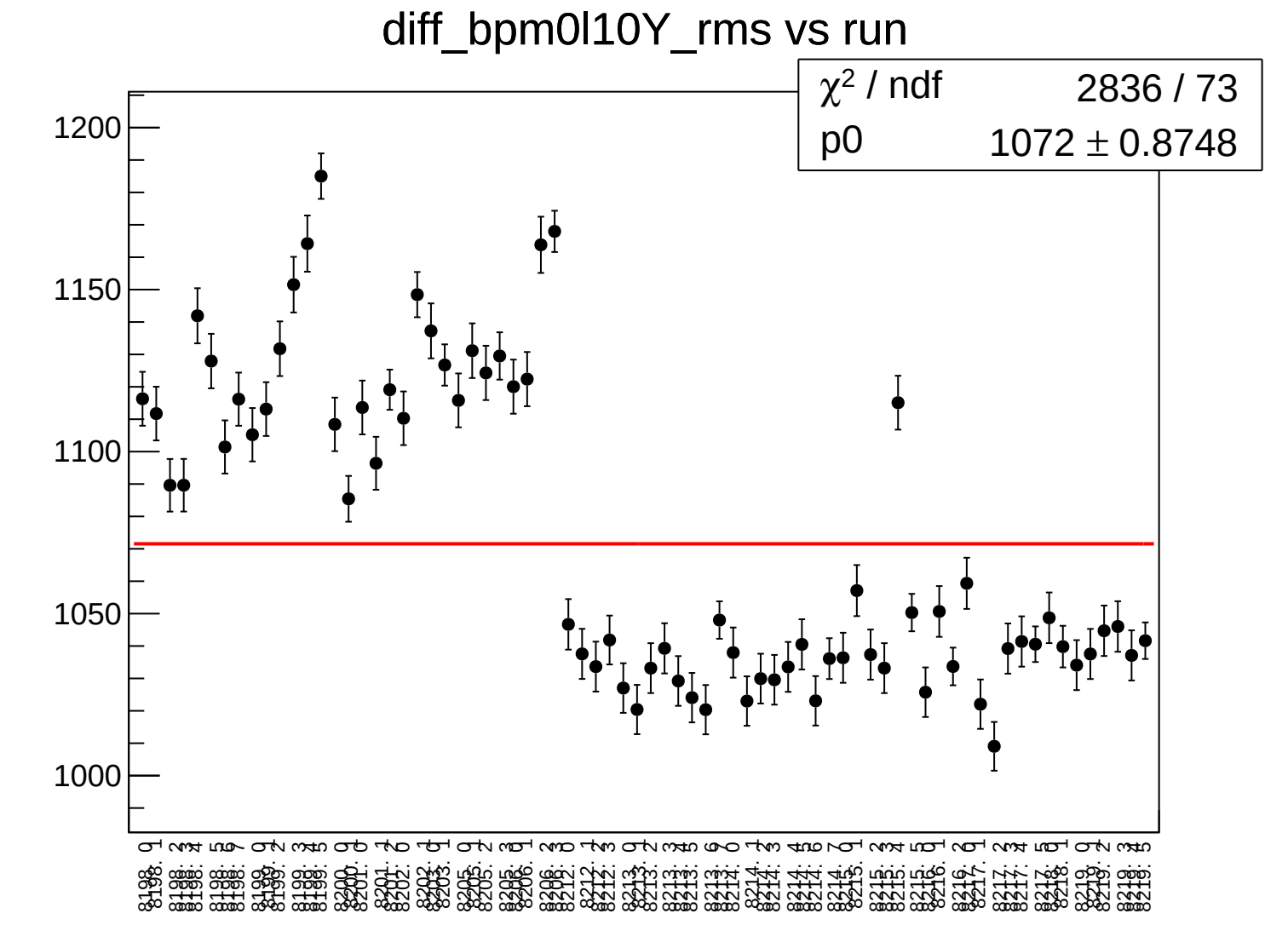

diff_bpm0l10X_mean vs run
χ² / ndf 84.79 / 73
p0 −48.41 ± 8.613
pull
Entries 74
Mean −3.586e+04
Std Dev 3.59e+04

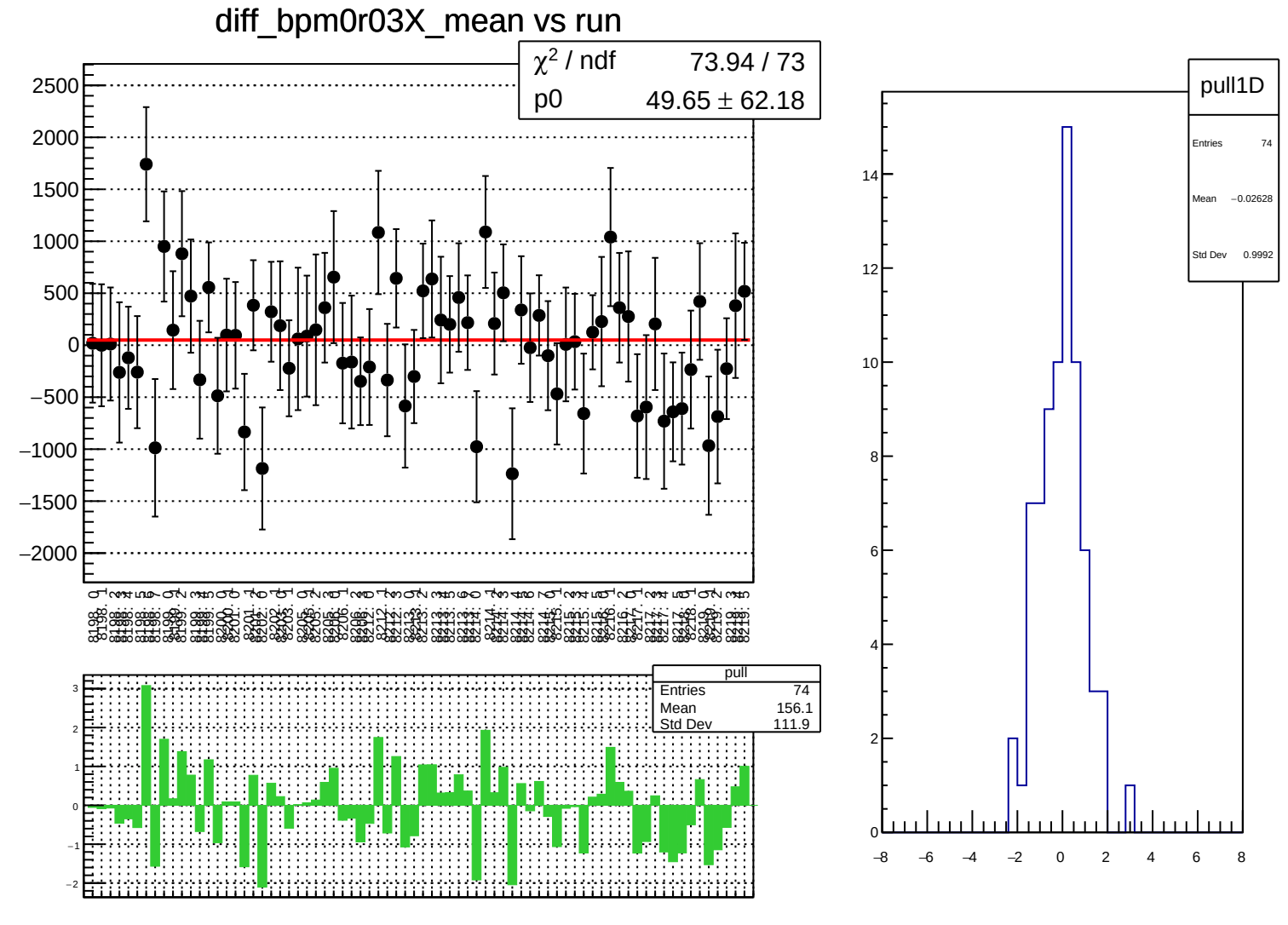

pull1D
Entries 74
Mean −0.0001661
Std Dev 1.07

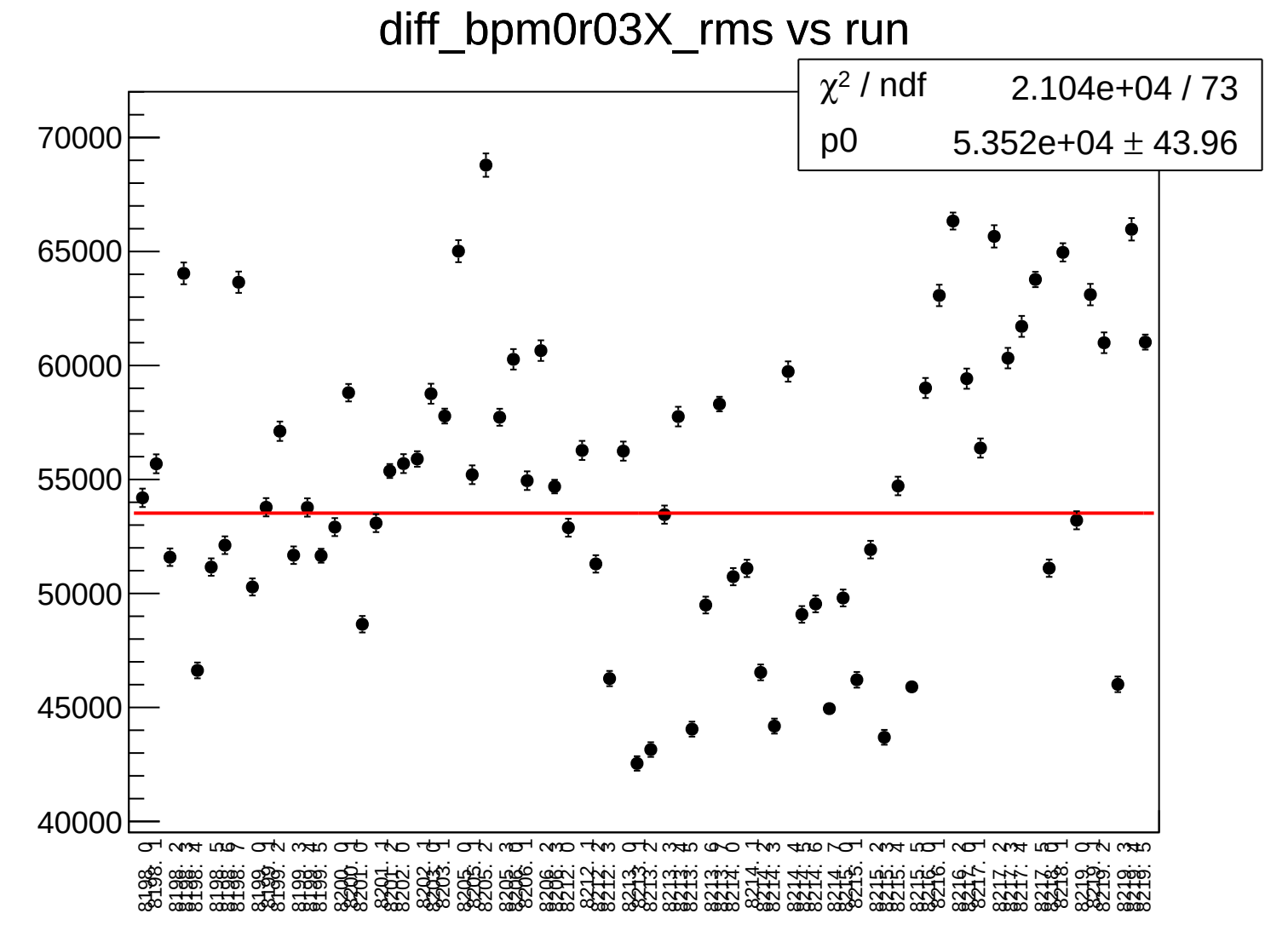

diff_bpm0l10X_rms vs run
χ² / ndf 2.354e+04 / 73
p0 7408 ± 6.09
10500
10000
9500
9000
8500
8000
7500
7000
6500
6000

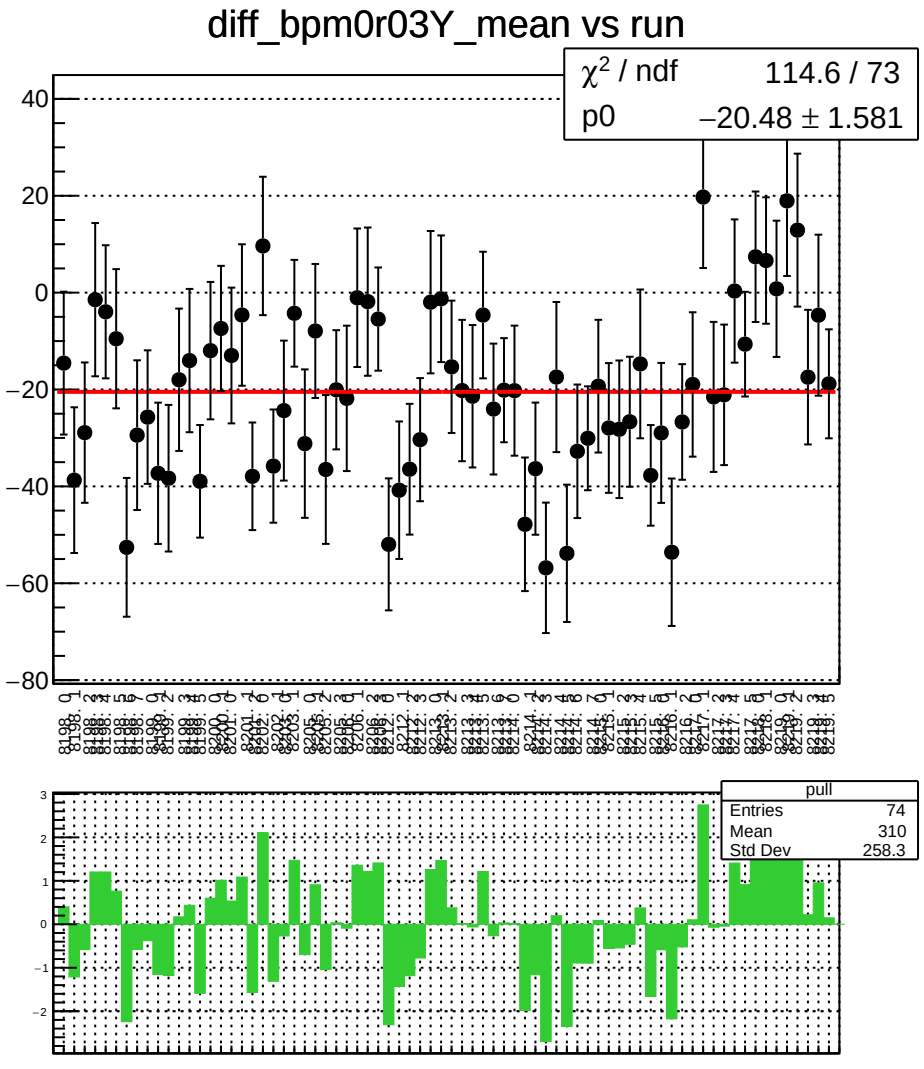

diff_bpm0l10Y_mean vs run
χ² / ndf 207.7 / 73
p0 −2.967 ± 1.237
pull
Entries 74
Mean −371.7
Std Dev 412.6

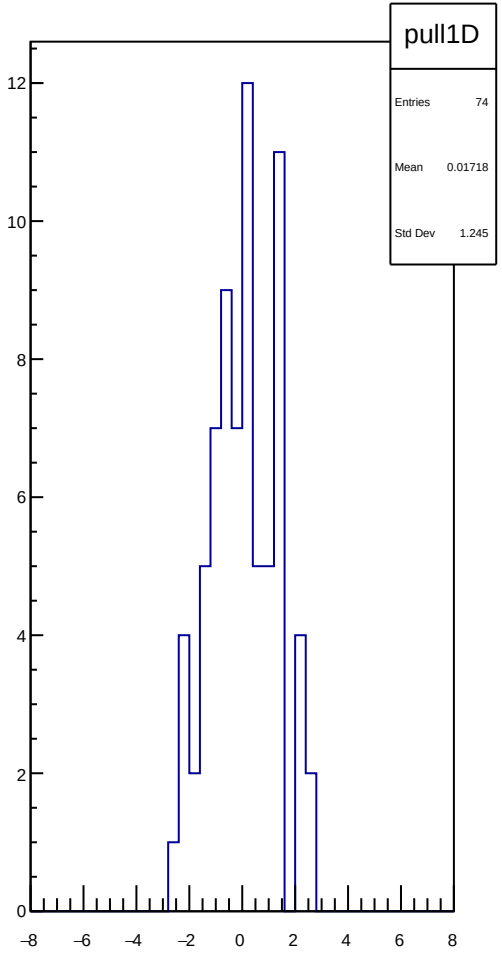

pull1D
Entries 74
Mean 0.0543
Std Dev 1.674

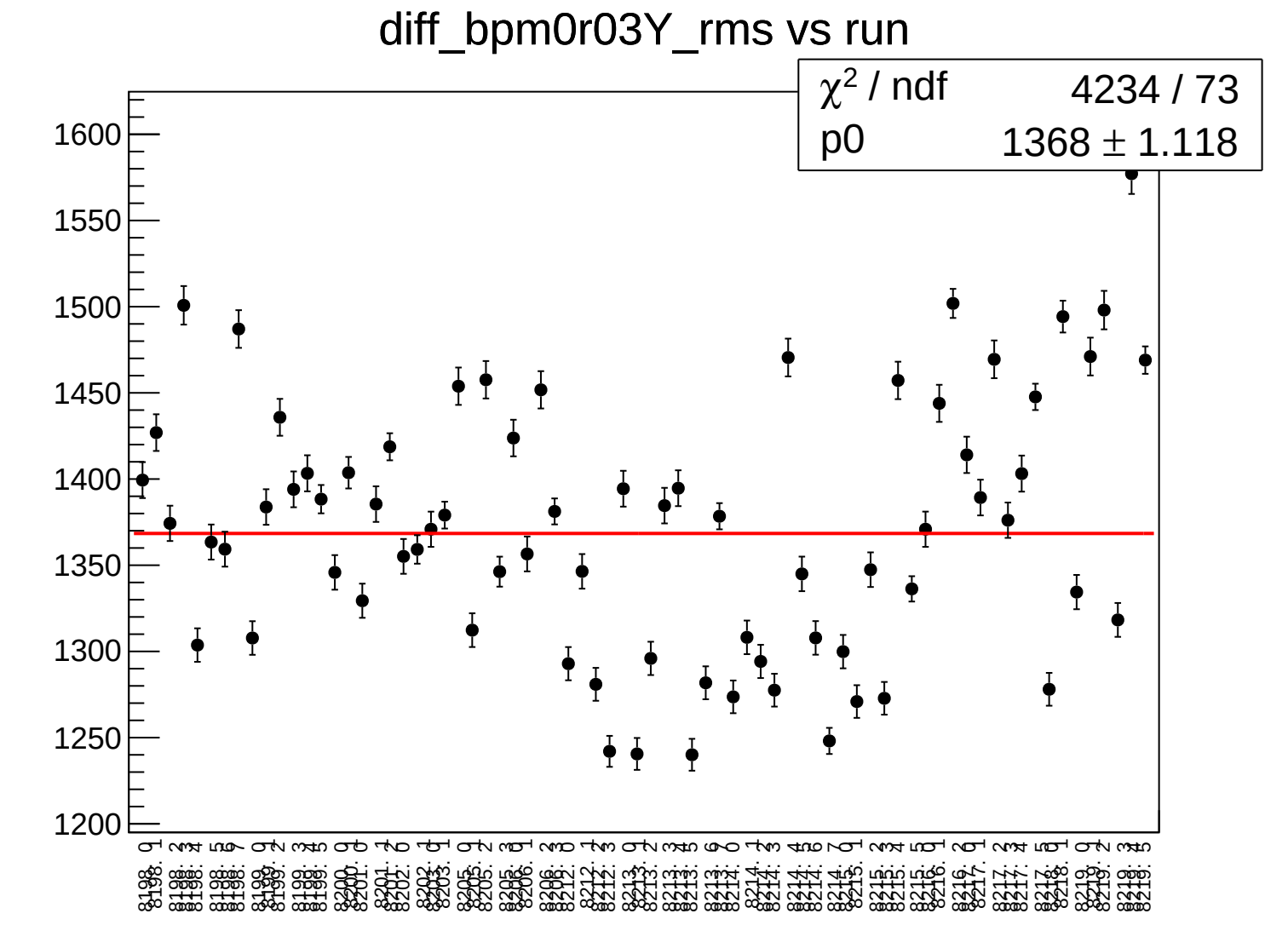

diff_bpm0l10Y_rms vs run
χ² / ndf 2836 / 73
p0 1072 ± 0.8748
1200
1150
1100
1050
1000

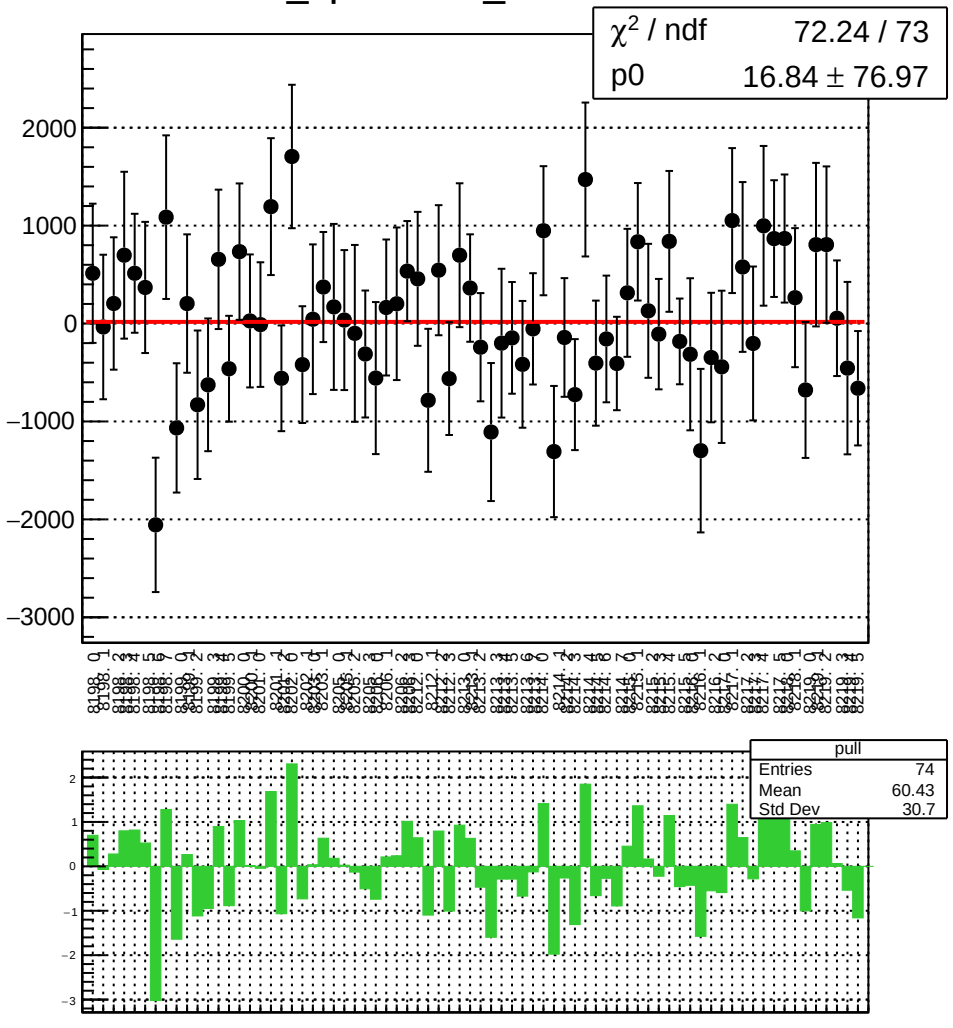

diff_bpm0r03X_mean vs run
χ² / ndf 73.94 / 73
p0 49.65 ± 62.18
pull
Entries 74
Mean 156.1
Std Dev 111.9
pull1D
Entries 74
Mean −0.02628
Std Dev 0.9992

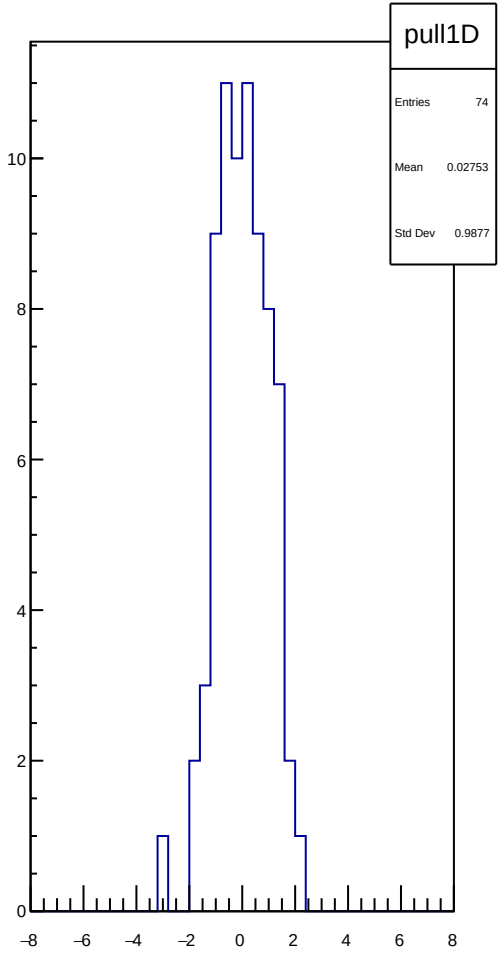

diff_bpm0r03X_rms vs run
χ^2 / ndf 2.104e+04 / 73
p0 5.352e+04 ± 43.96
70000
65000
60000
55000
50000
45000
40000

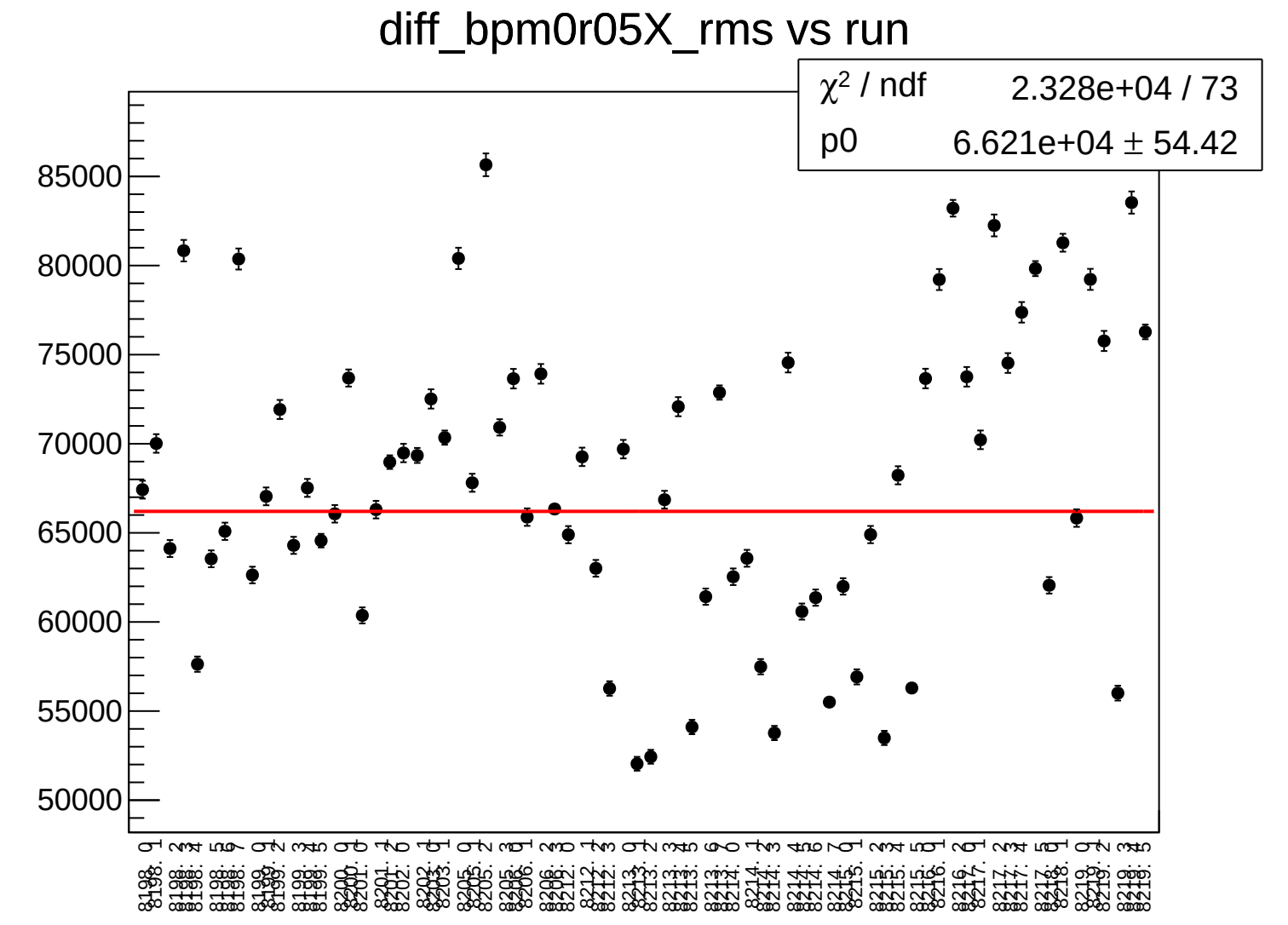

diff_bpm0r03Y_mean vs run
χ² / ndf 114.6 / 73
p0 −20.48 ± 1.581
pull
Entries 74
Mean 310
Std Dev 258.3

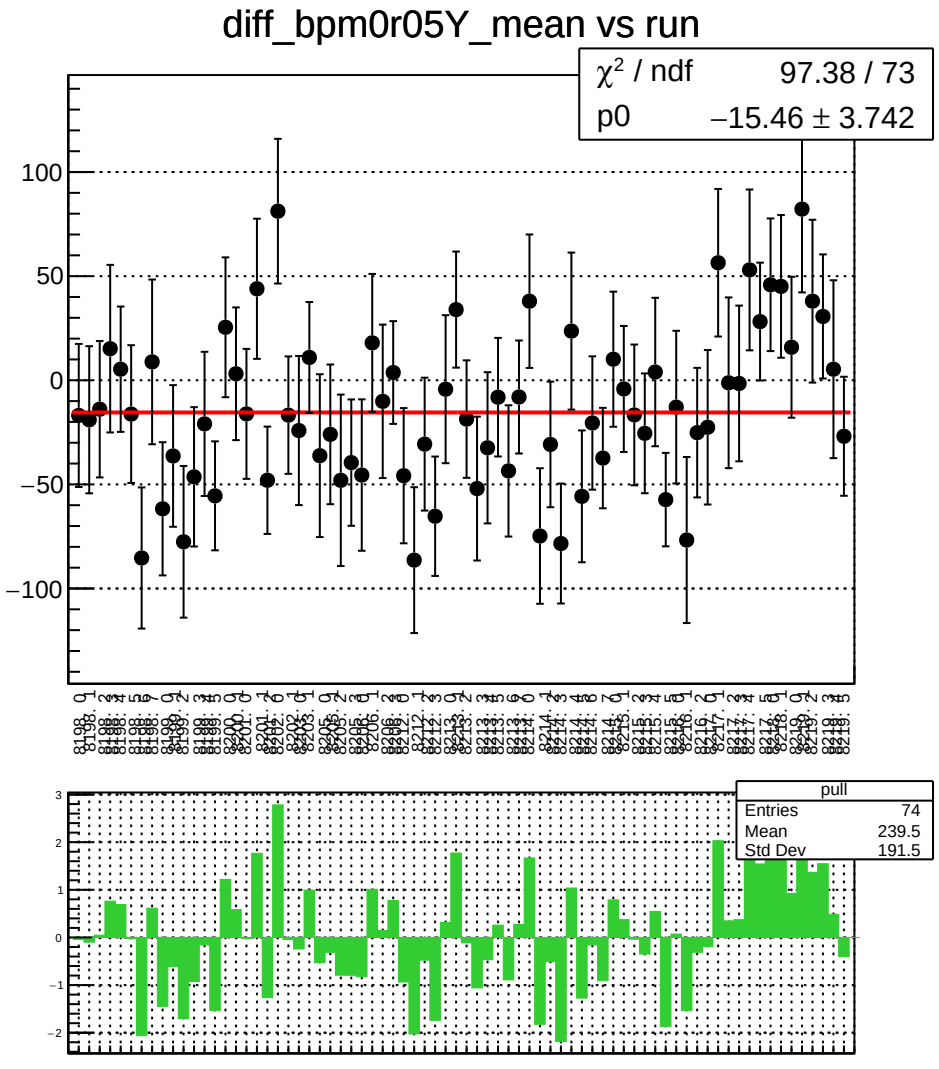

pull1D
Entries 74
Mean 0.01718
Std Dev 1.245

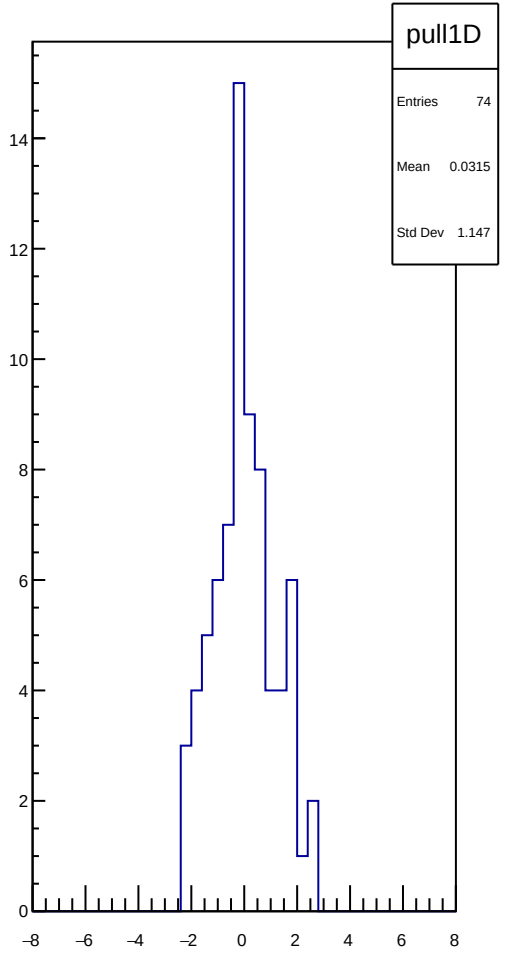

diff_bpm0r03Y_rms vs run
χ² / ndf 4234 / 73
p0 1368 ± 1.118
1600
1550
1500
1450
1400
1350
1300
1250
1200

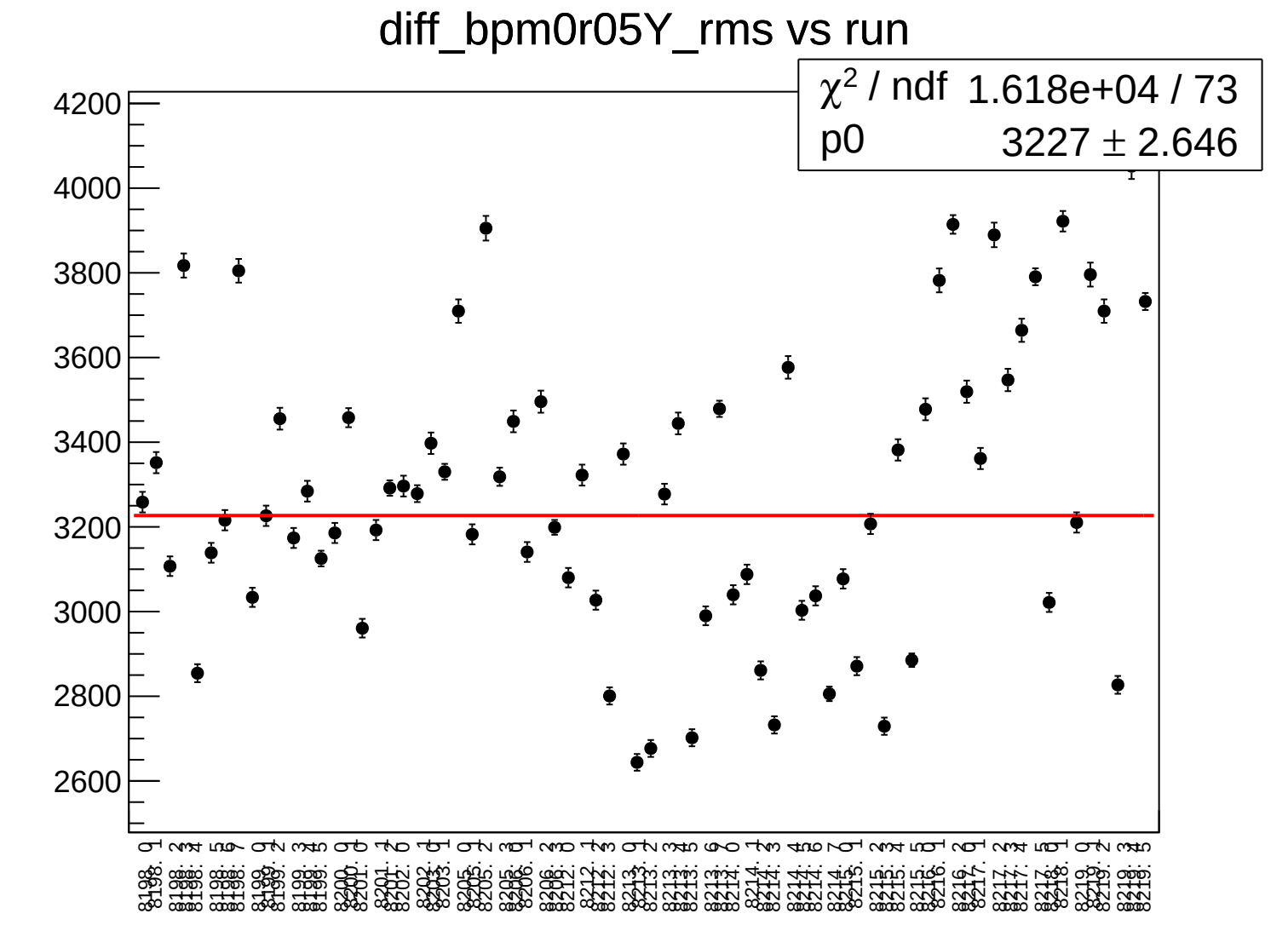

diff_bpm0r05X_mean vs run
χ² / ndf 72.24 / 73
p0 16.84 ± 76.97
pull
Entries 74
Mean 60.43
Std Dev 30.7

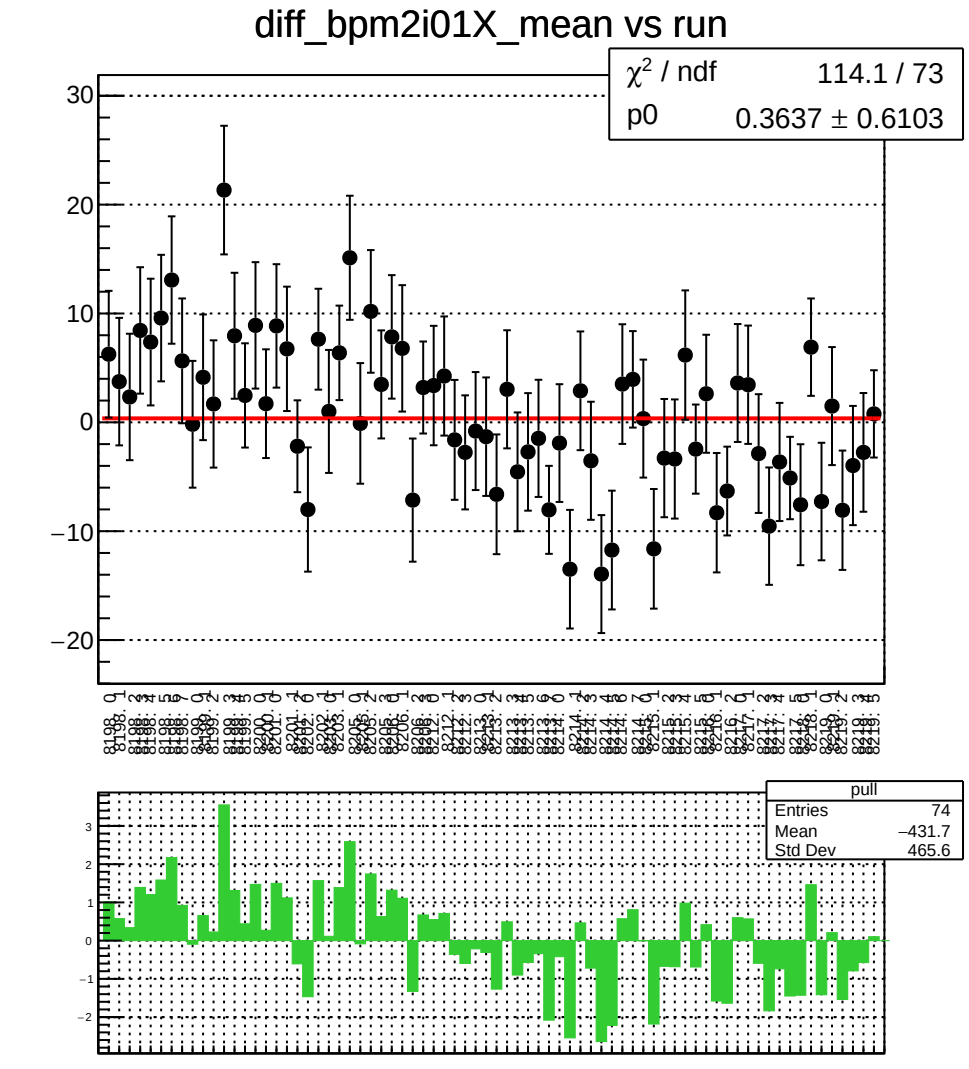

pull1D
Entries 74
Mean 0.02753
Std Dev 0.9877

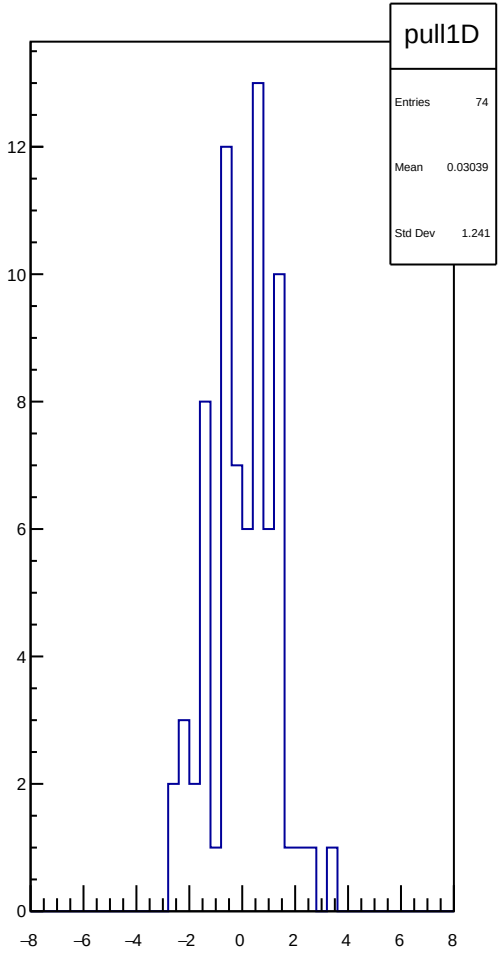

diff_bpm0r05X_rms vs run
χ² / ndf 2.328e+04 / 73
p0 6.621e+04 ± 54.42
85000
80000
75000
70000
65000
60000
55000
50000

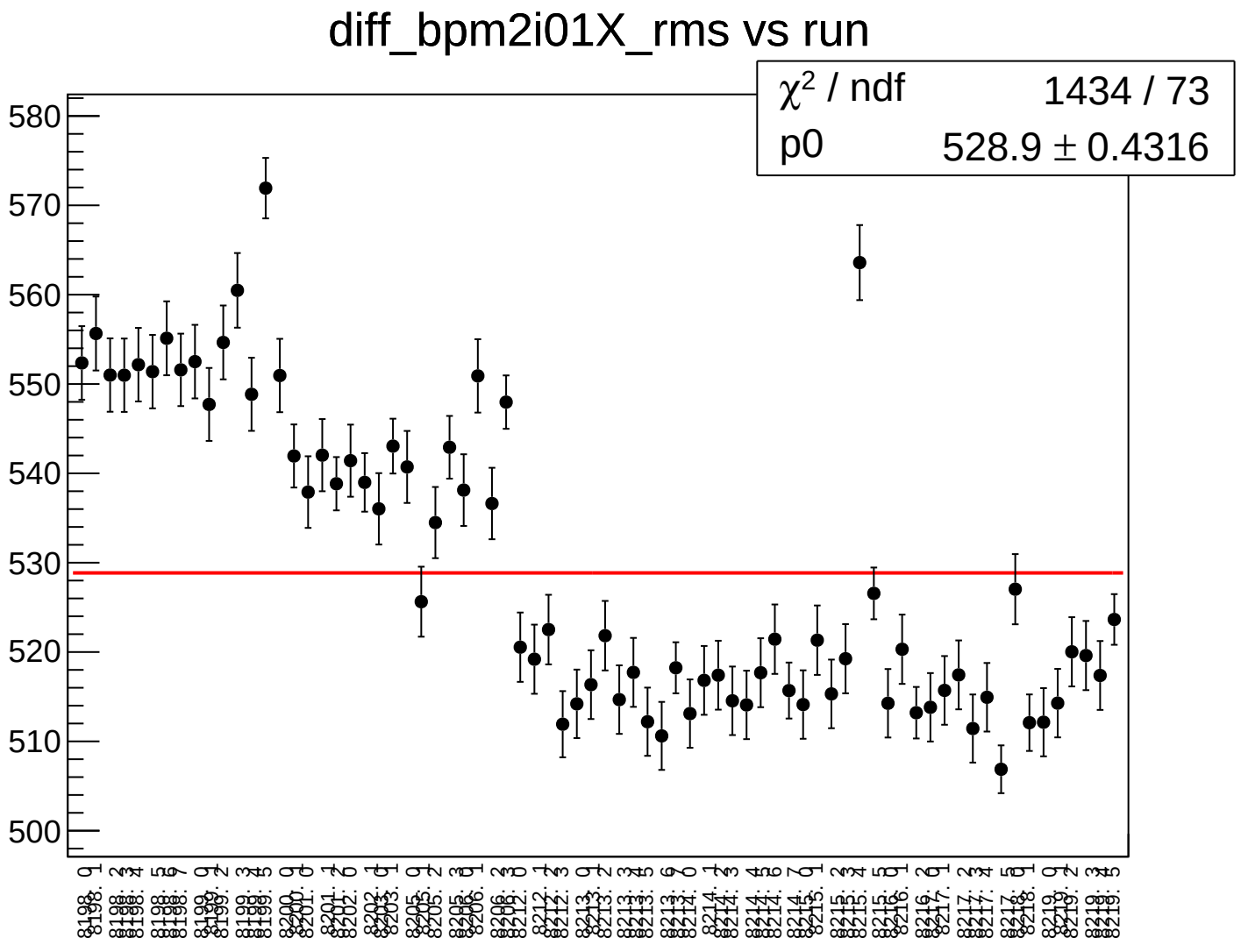

diff_bpm0r05Y_mean vs run
χ² / ndf 97.38 / 73
p0 −15.46 ± 3.742
100
50
0
−50
−100
pull
Entries 74
Mean 239.5
Std Dev 191.5
3
2
1
0
−1
−2

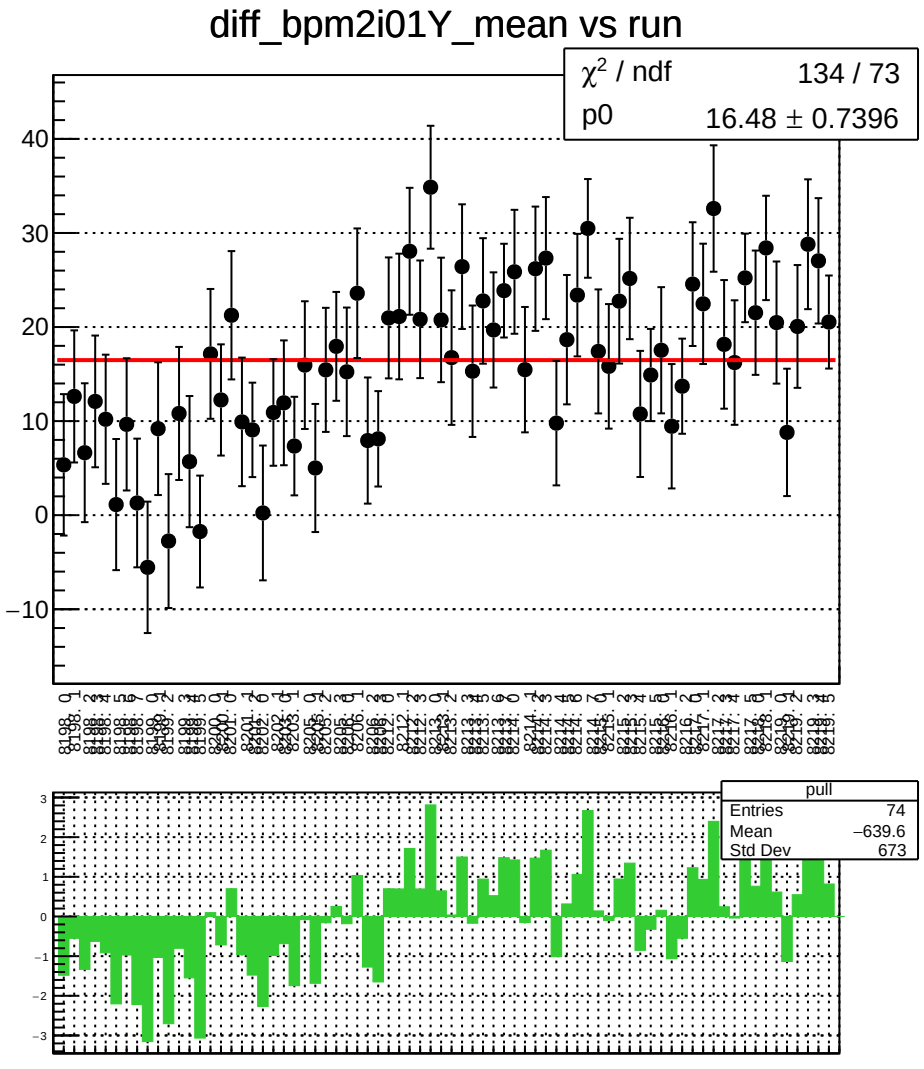

pull1D
Entries 74
Mean 0.0315
Std Dev 1.147
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

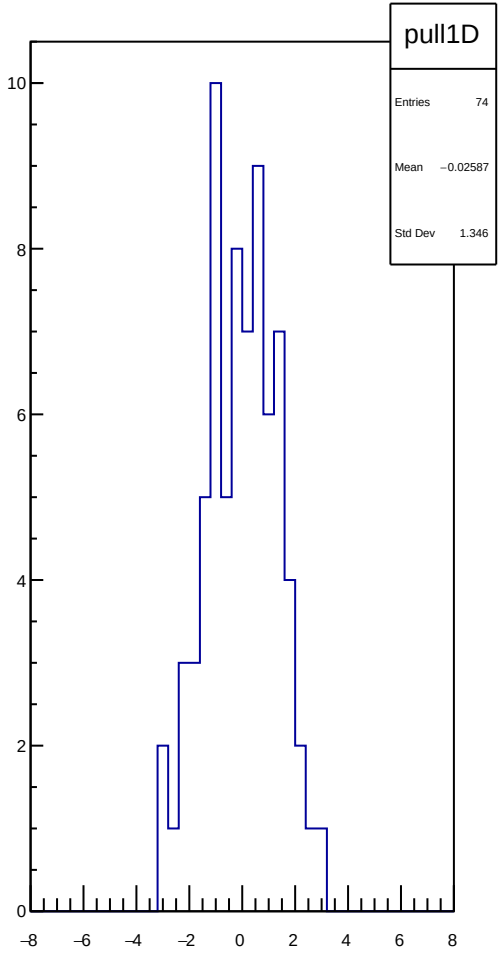

diff_bpm0r05Y_rms vs run
χ² / ndf 1.618e+04 / 73
p0 3227 ± 2.646
4200
4000
3800
3600
3400
3200
3000
2800
2600

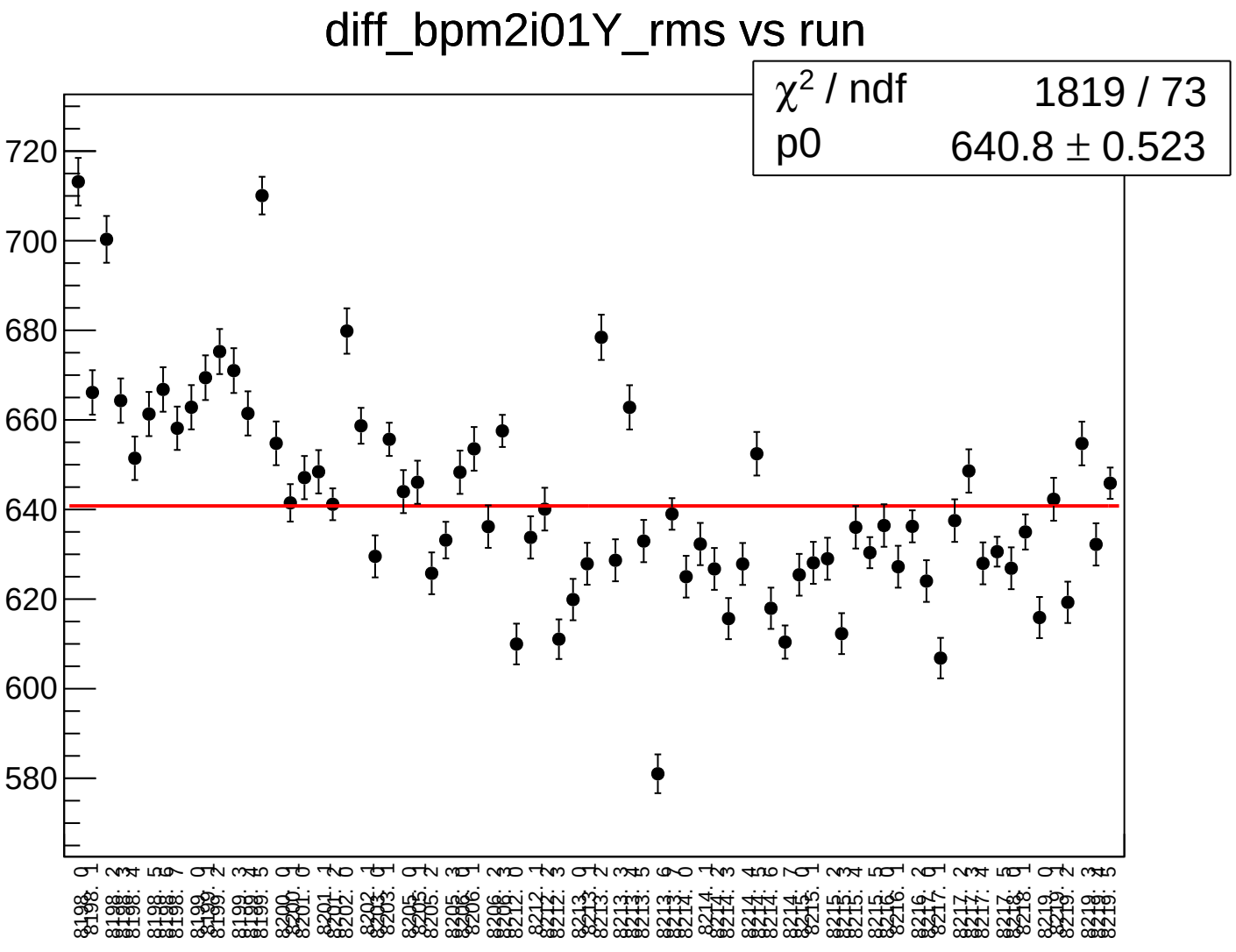

diff_bpm2i01X_mean vs run
χ² / ndf 114.1 / 73
p0 0.3637 ± 0.6103
pull
Entries 74
Mean −431.7
Std Dev 465.6

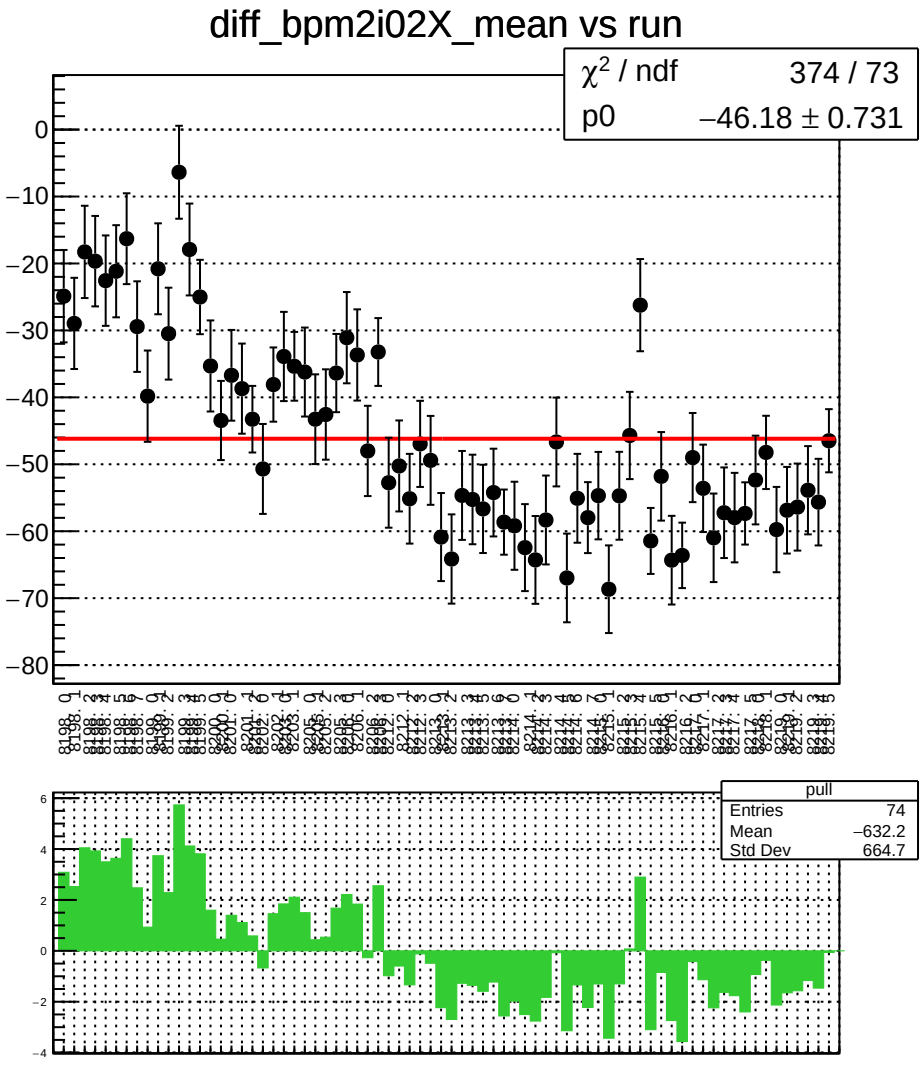

pull1D
Entries 74
Mean 0.03039
Std Dev 1.241

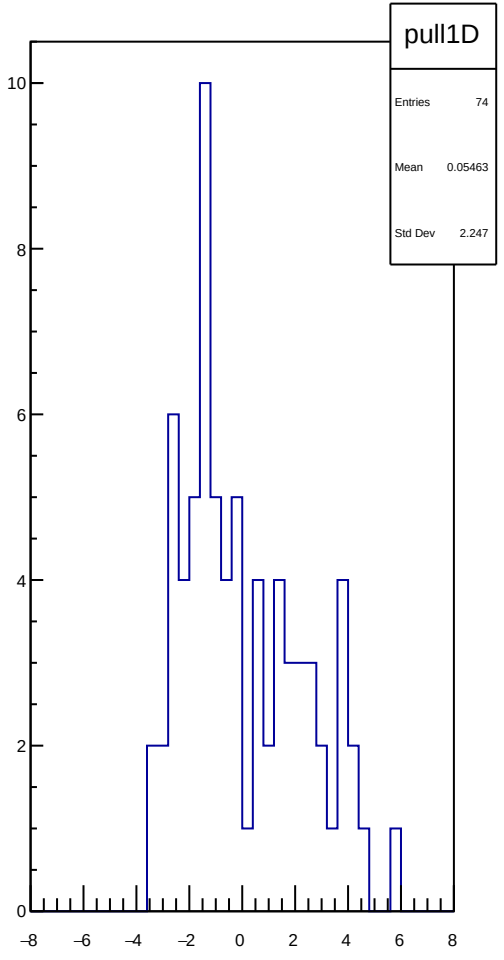

diff_bpm2i01X_rms vs run
χ² / ndf 1434 / 73
p0 528.9 ± 0.4316
580
570
560
550
540
530
520
510
500

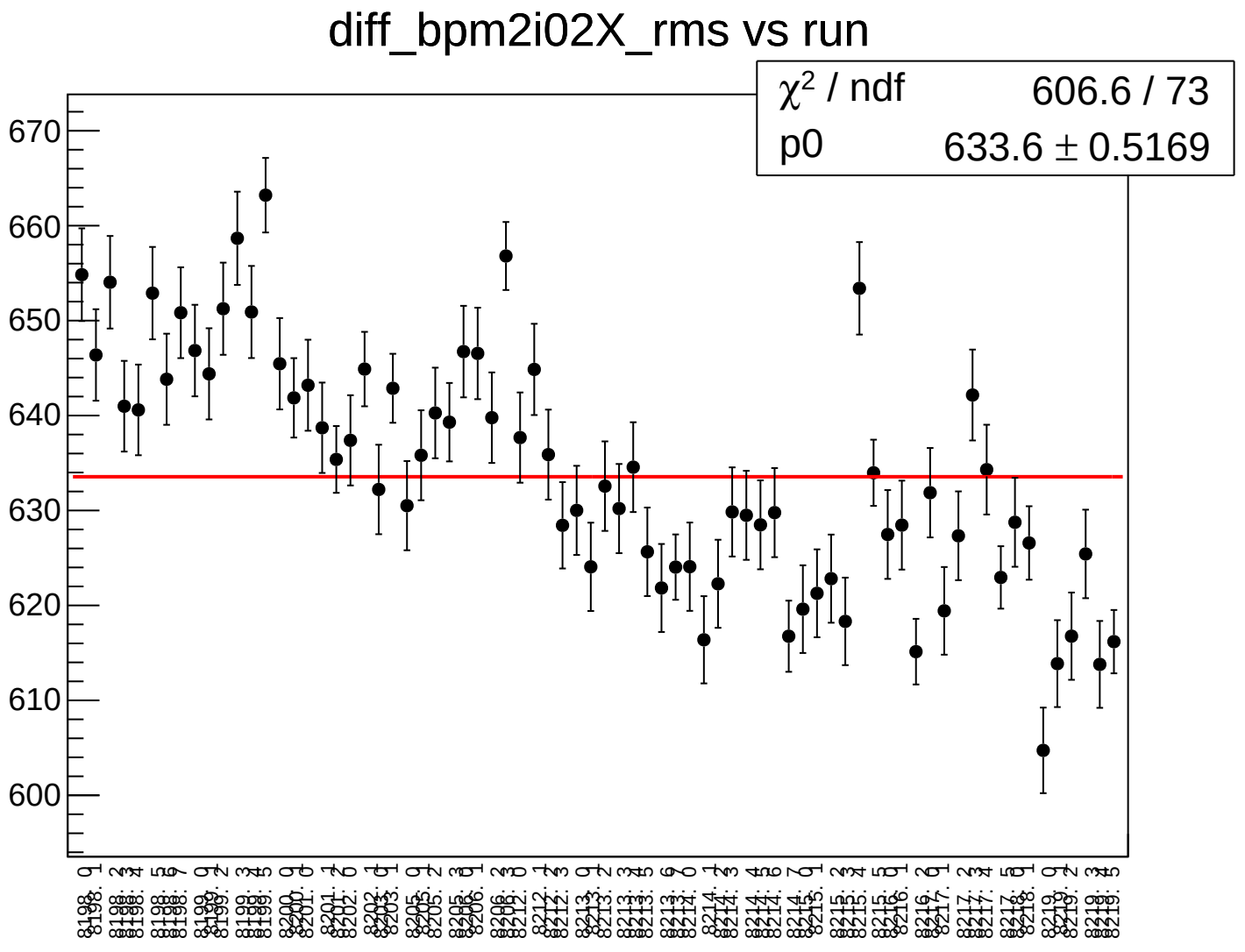

diff_bpm2i01Y_mean vs run
χ² / ndf 134 / 73
p0 16.48 ± 0.7396
pull
Entries 74
Mean −639.6
Std Dev 673

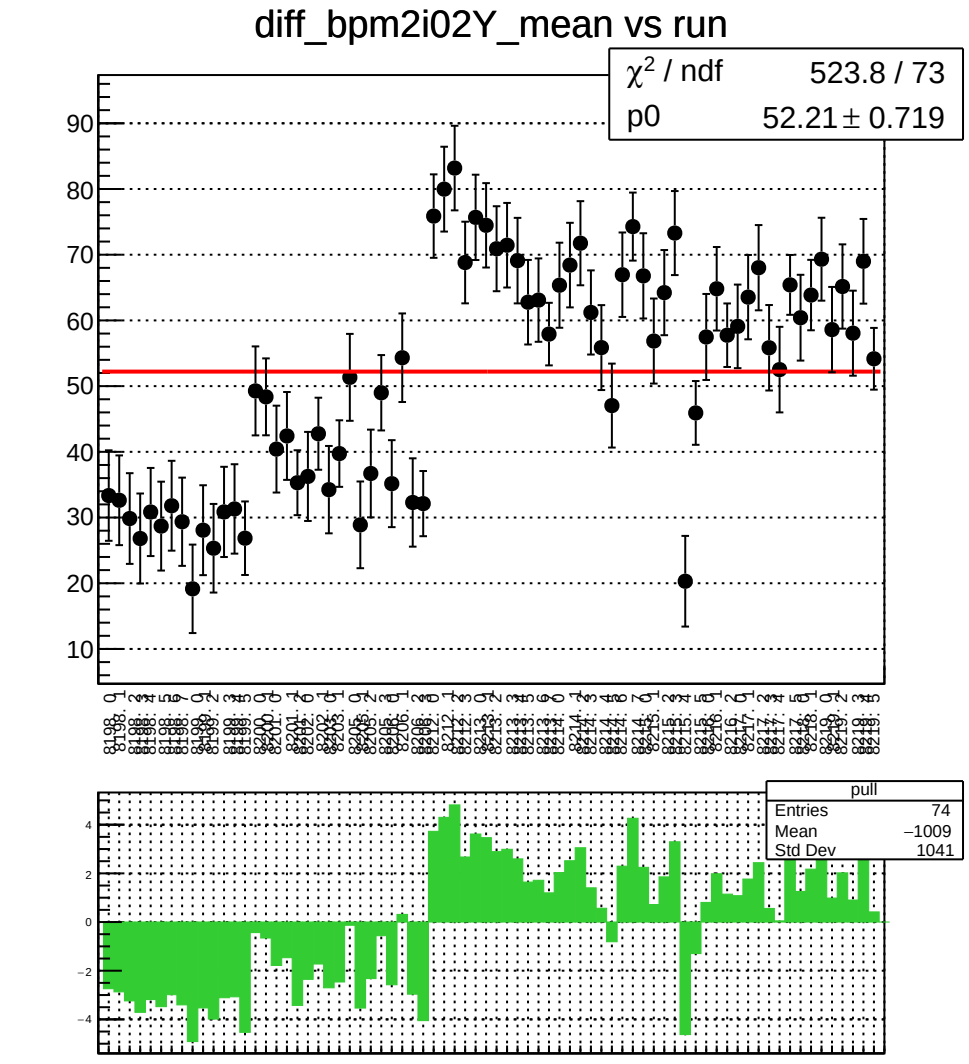

pull1D
Entries 74
Mean −0.02587
Std Dev 1.346

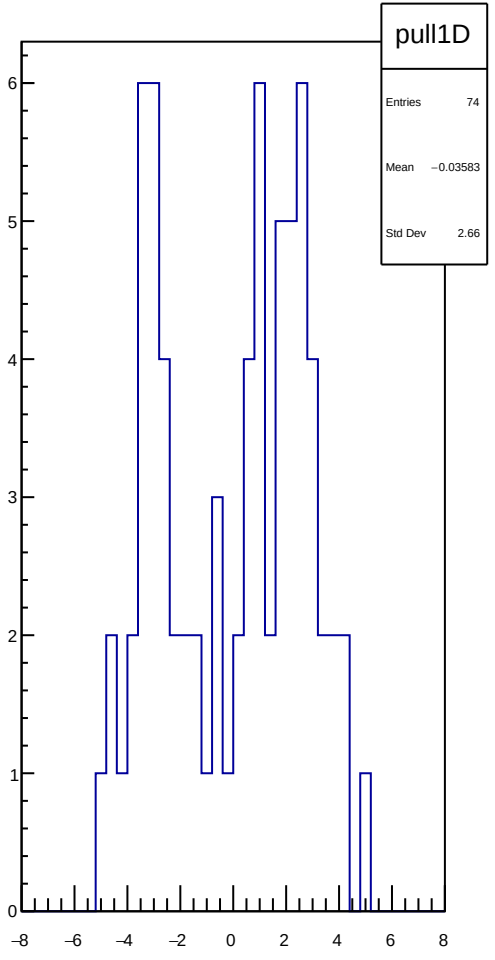

diff_bpm2i01Y_rms vs run
χ² / ndf 1819 / 73
p0 640.8 ± 0.523
720
700
680
660
640
620
600
580

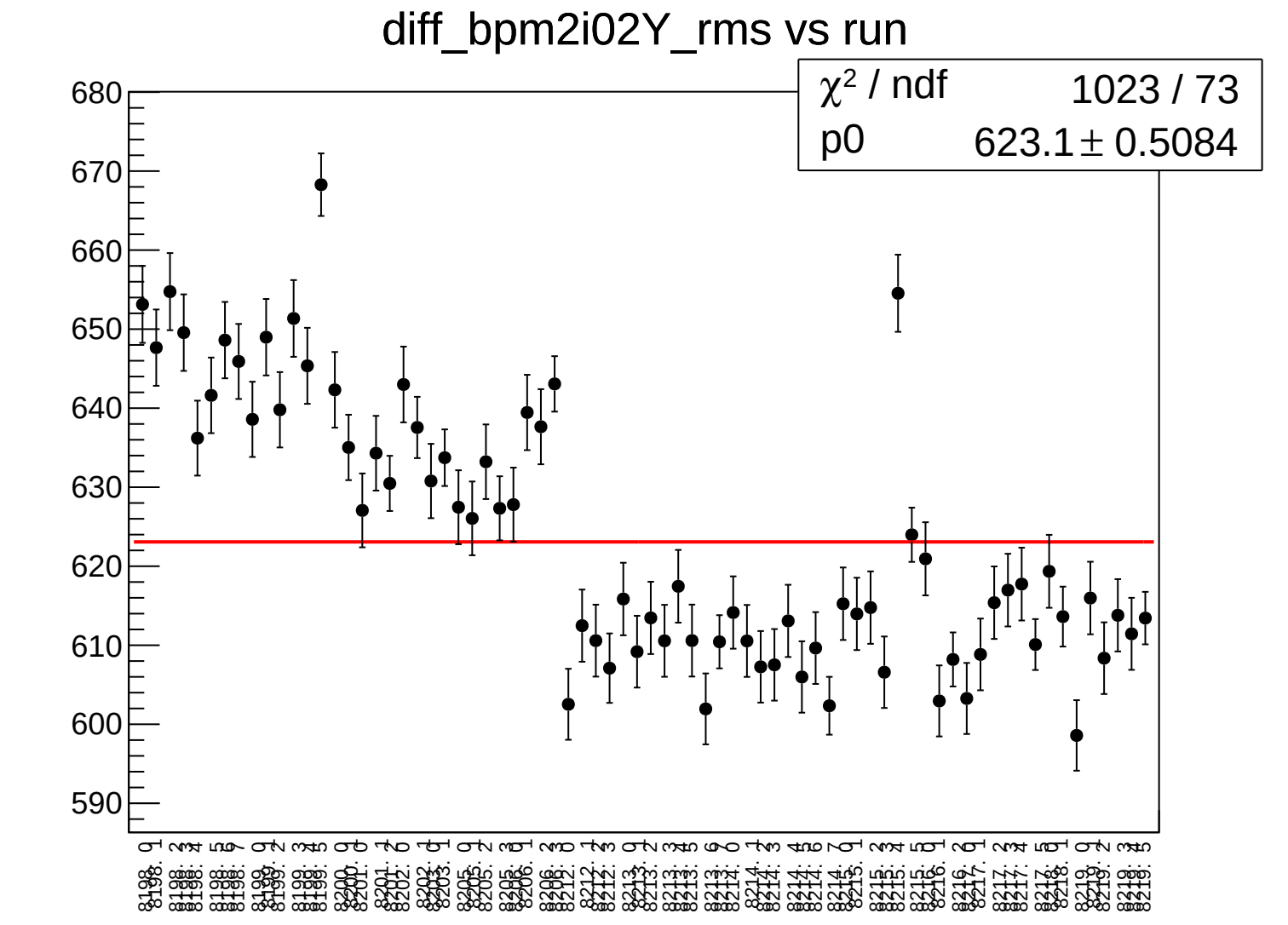

diff_bpm2i02X_mean vs run
χ² / ndf 374 / 73
p0 −46.18 ± 0.731
pull
Entries 74
Mean −632.2
Std Dev 664.7

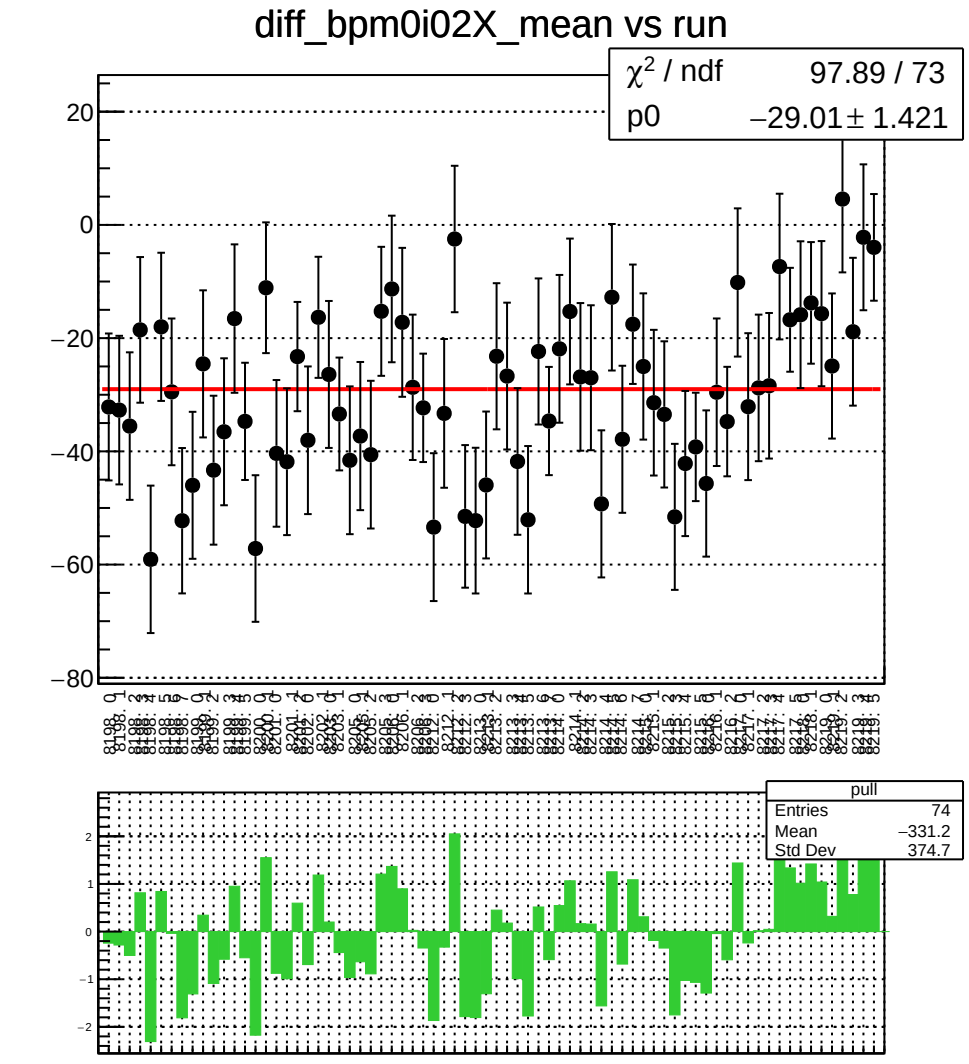

pull1D
Entries 74
Mean 0.05463
Std Dev 2.247

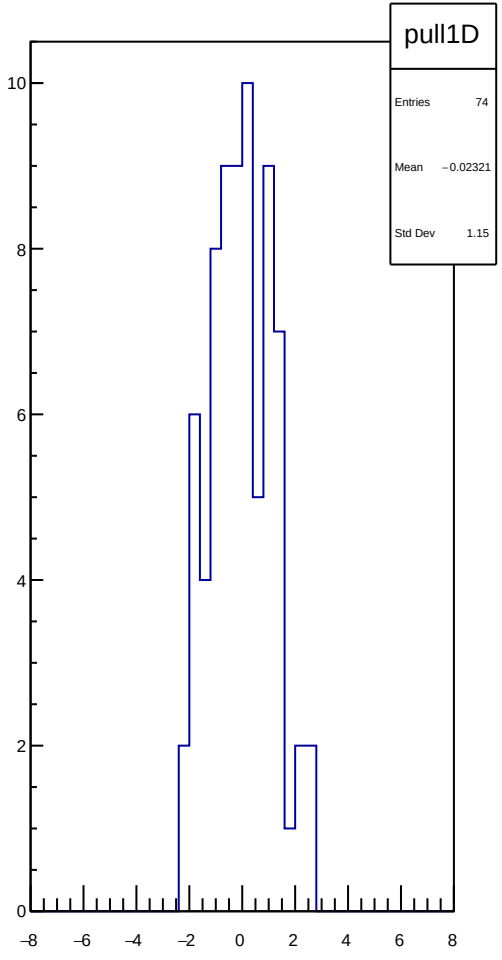

diff_bpm2i02X_rms vs run
χ² / ndf 606.6 / 73
p0 633.6 ± 0.5169
670
660
650
640
630
620
610
600

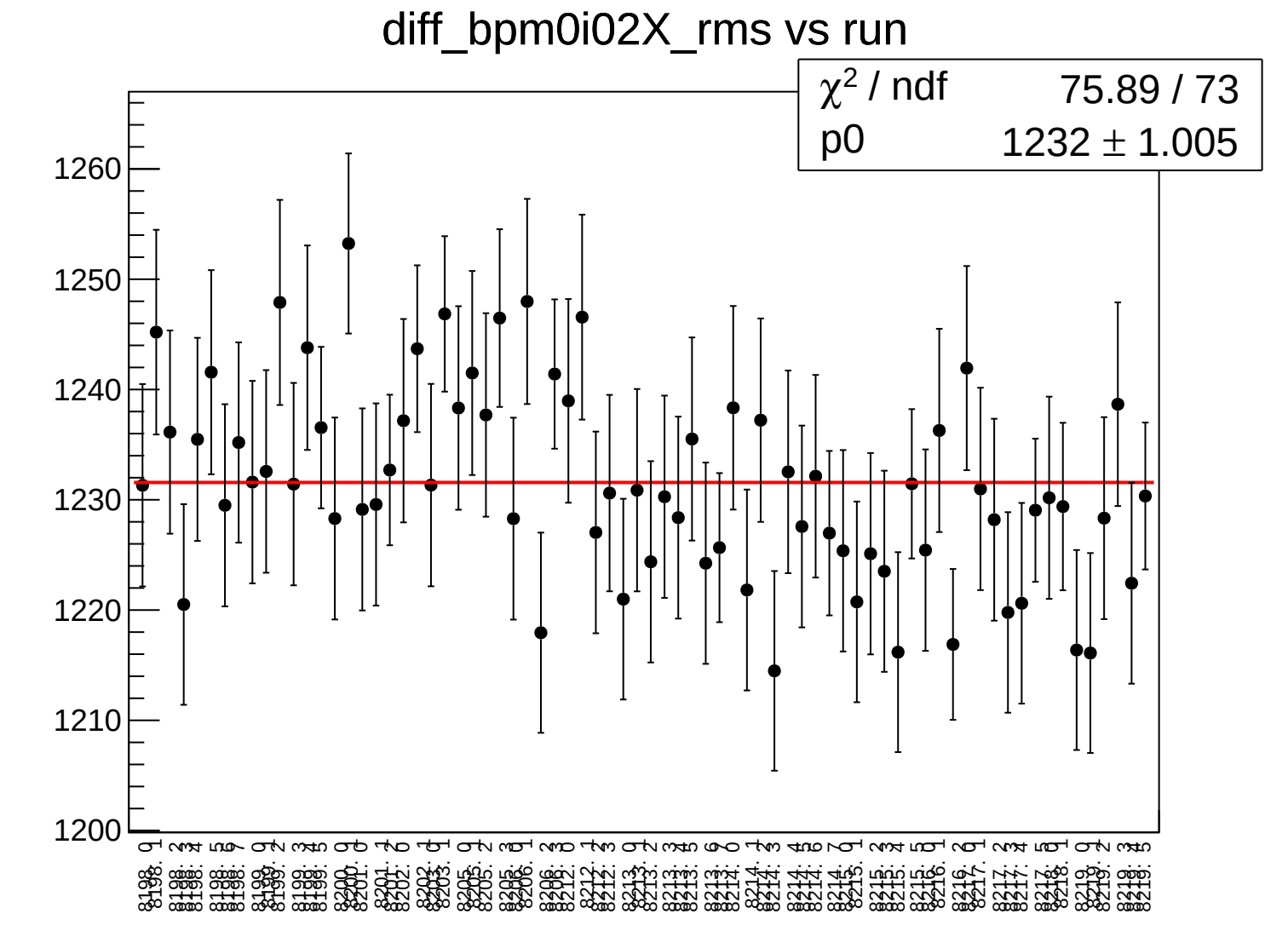

diff_bpm2i02Y_mean vs run
χ² / ndf 523.8 / 73
p0 52.21 ± 0.719
pull
Entries 74
Mean −1009
Std Dev 1041

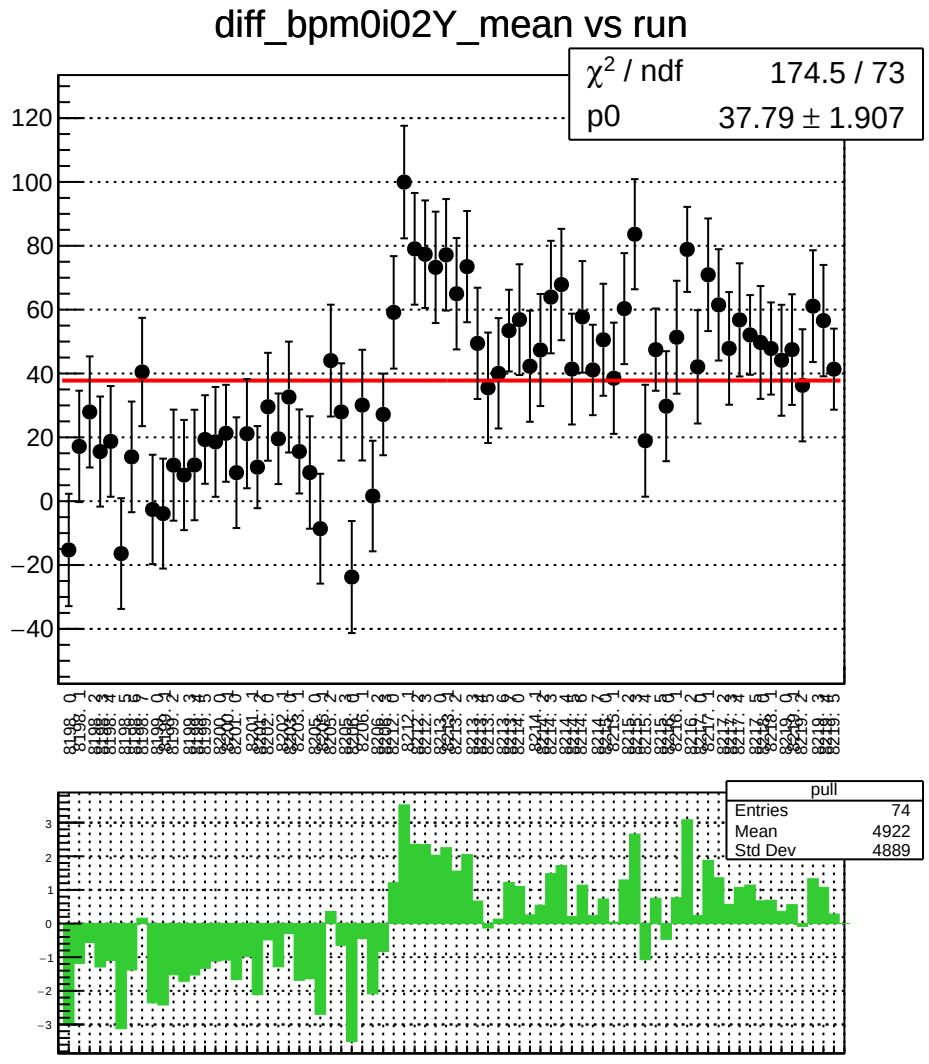

pull1D
Entries 74
Mean −0.03583
Std Dev 2.66

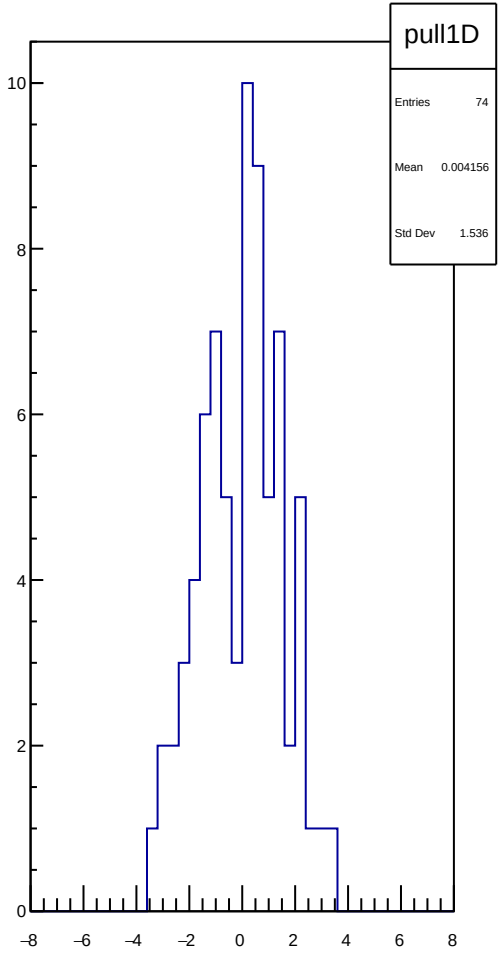

diff_bpm2i02Y_rms vs run
χ² / ndf 1023 / 73
p0 623.1 ± 0.5084
680
670
660
650
640
630
620
610
600
590

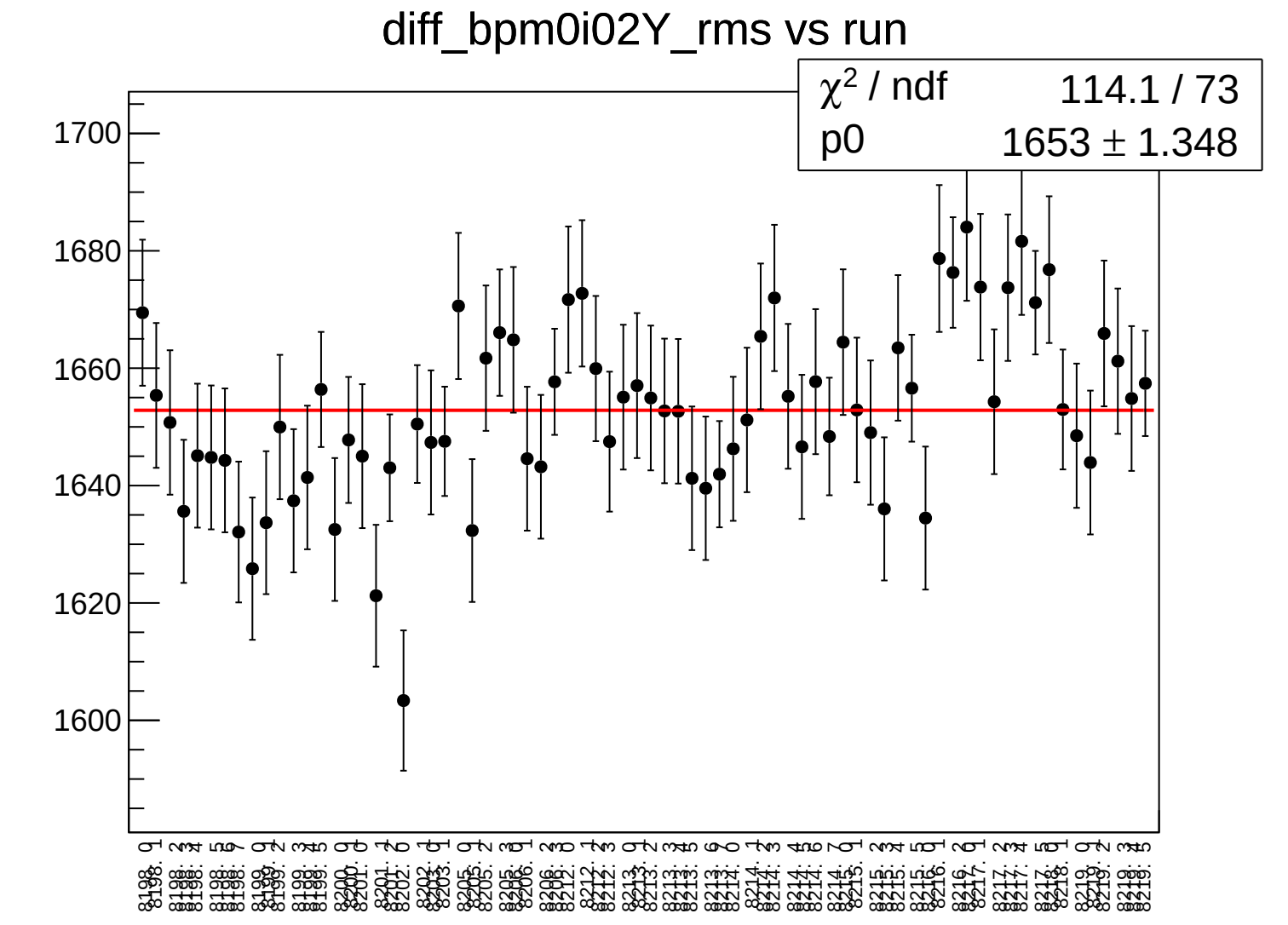

diff_bpm0i02X_mean vs run
χ² / ndf 97.89 / 73
p0 −29.01 ± 1.421
pull
Entries 74
Mean −331.2
Std Dev 374.7

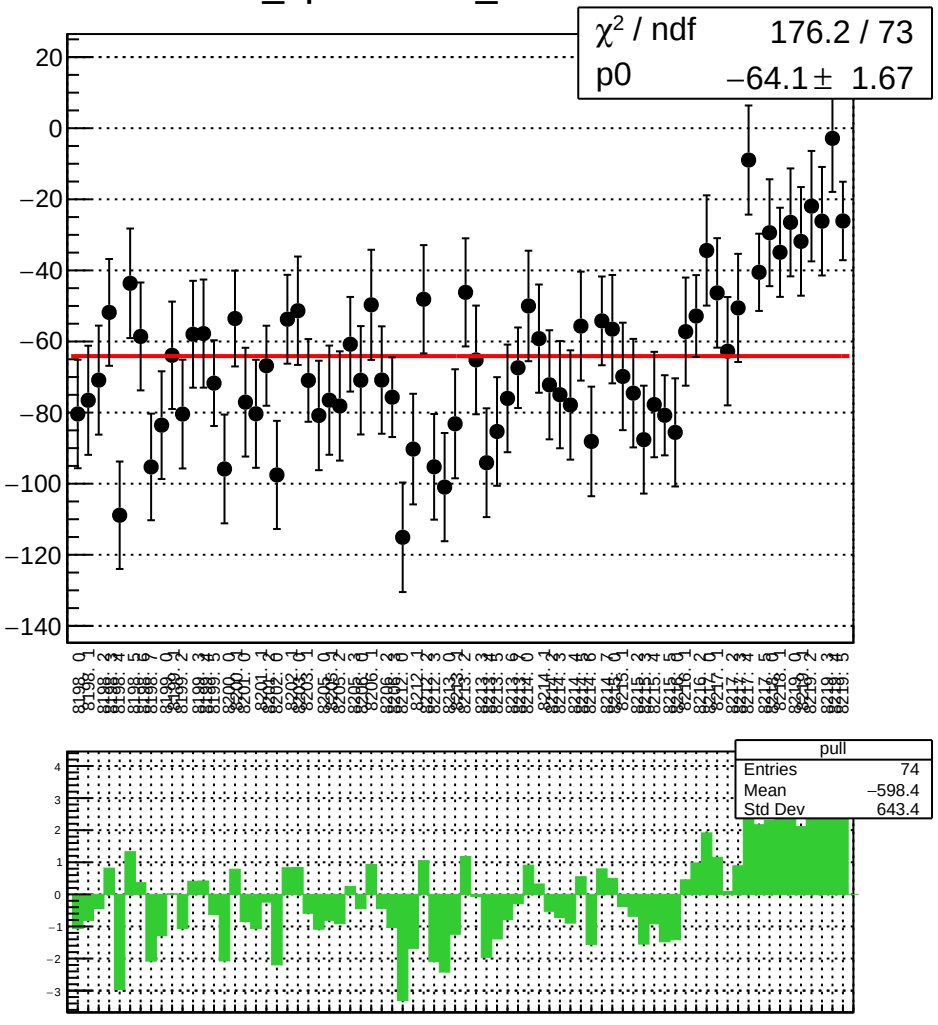

pull1D
Entries 74
Mean −0.02321
Std Dev 1.15

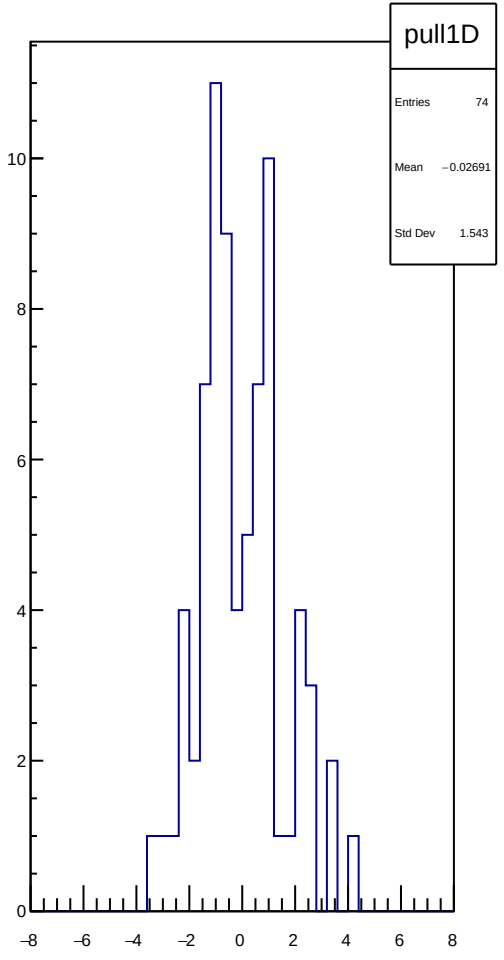

diff_bpm0i02X_rms vs run
χ² / ndf 75.89 / 73
p0 1232 ± 1.005
1260
1250
1240
1230
1220
1210
1200

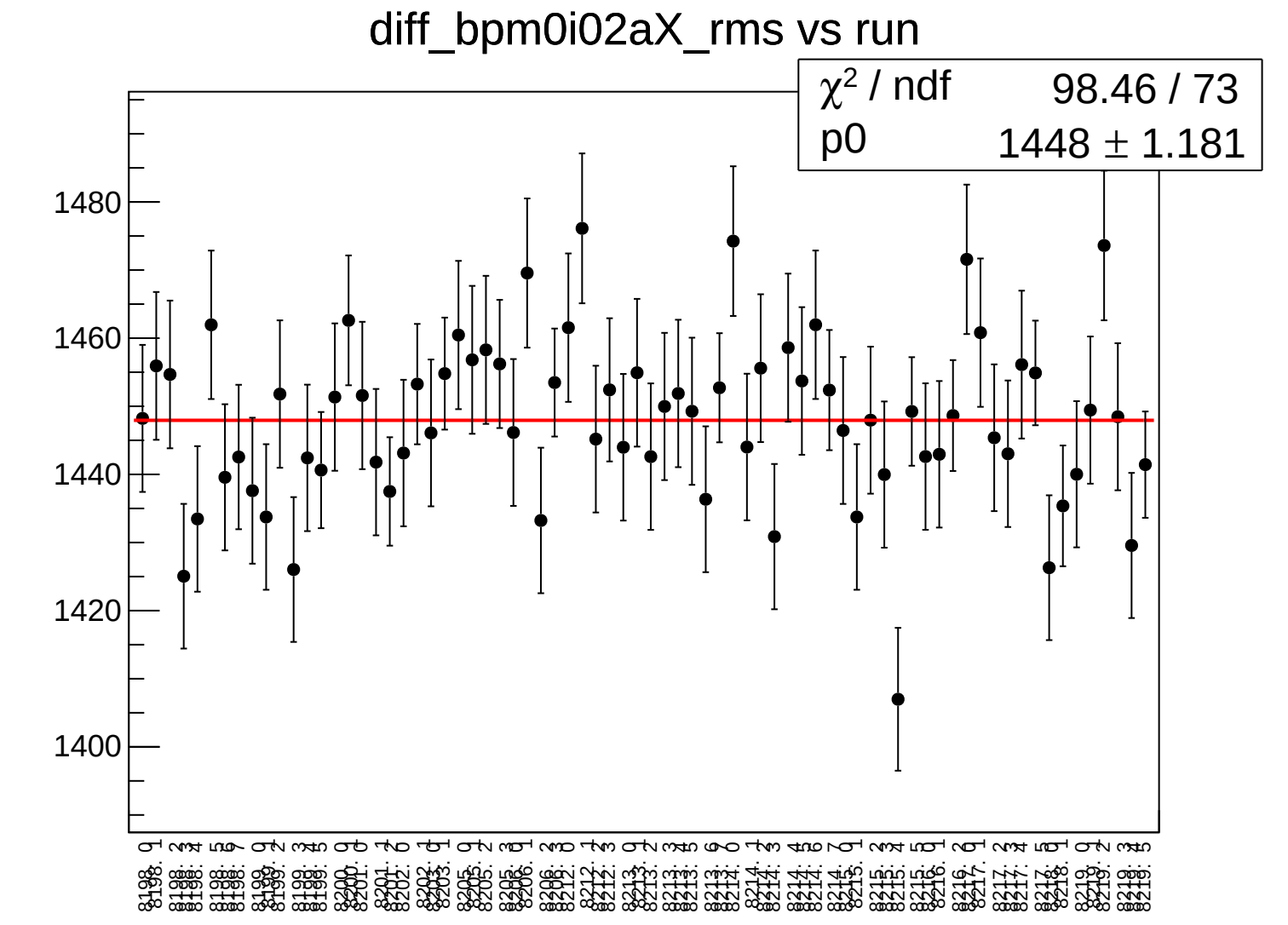

diff_bpm0i02Y_mean vs run
χ^2 / ndf 174.5 / 73
p0 37.79 ± 1.907
pull
Entries 74
Mean 4922
Std Dev 4889

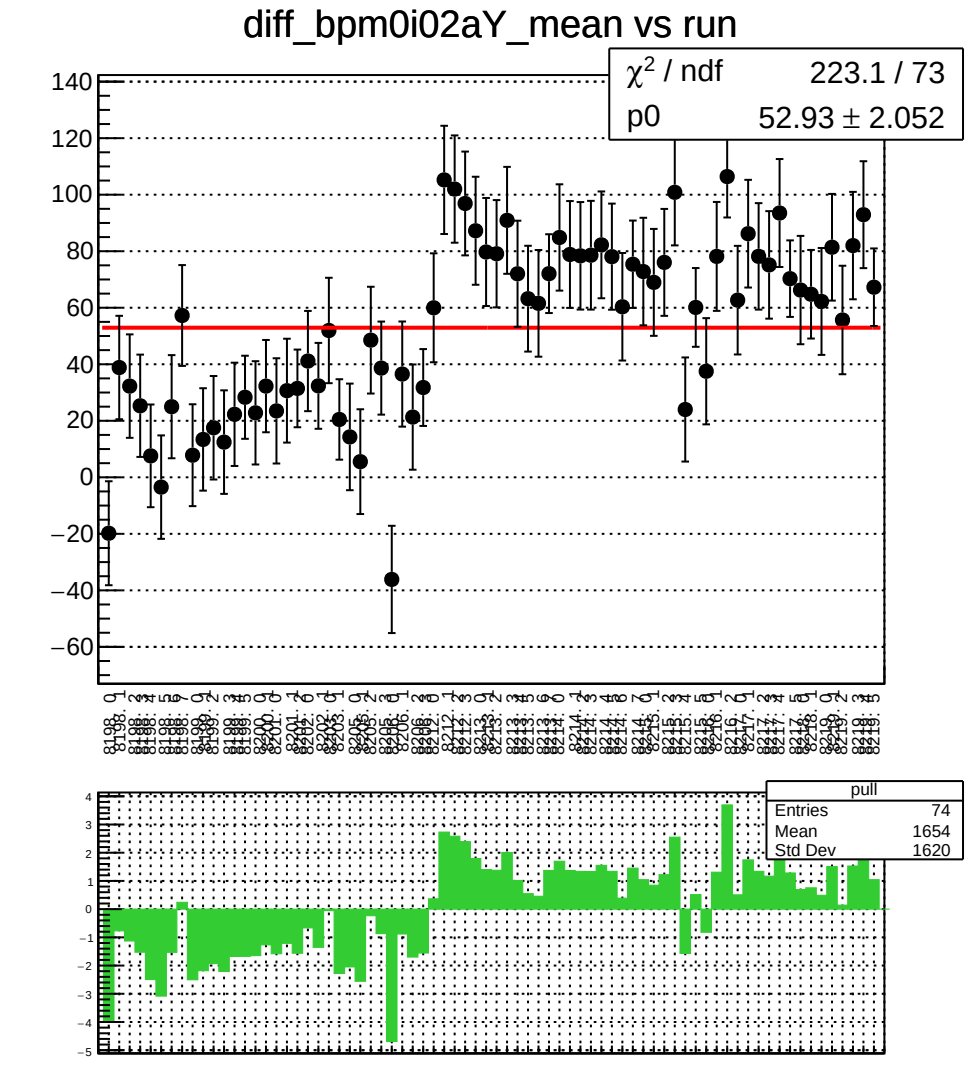

pull1D
Entries 74
Mean 0.004156
Std Dev 1.536

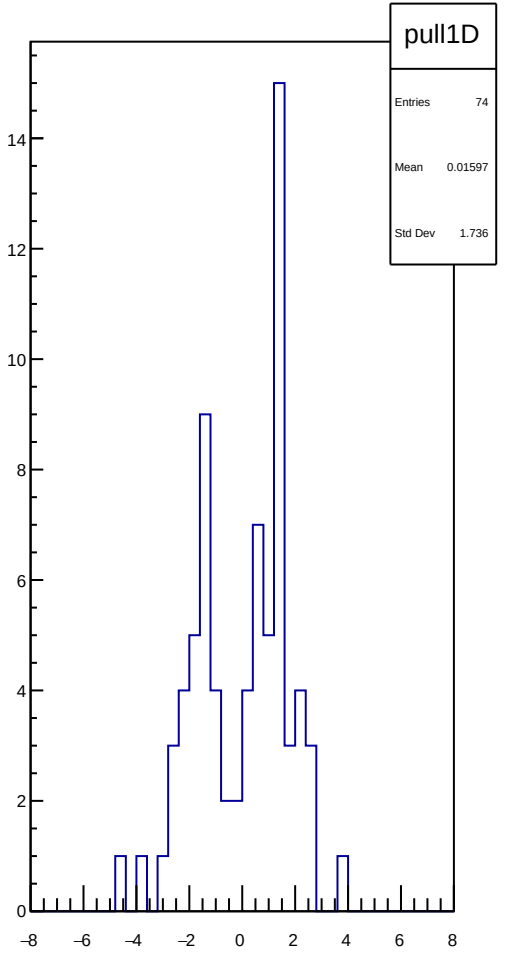

diff_bpm0i02Y_rms vs run
χ² / ndf 114.1 / 73
p0 1653 ± 1.348
1700
1680
1660
1640
1620
1600

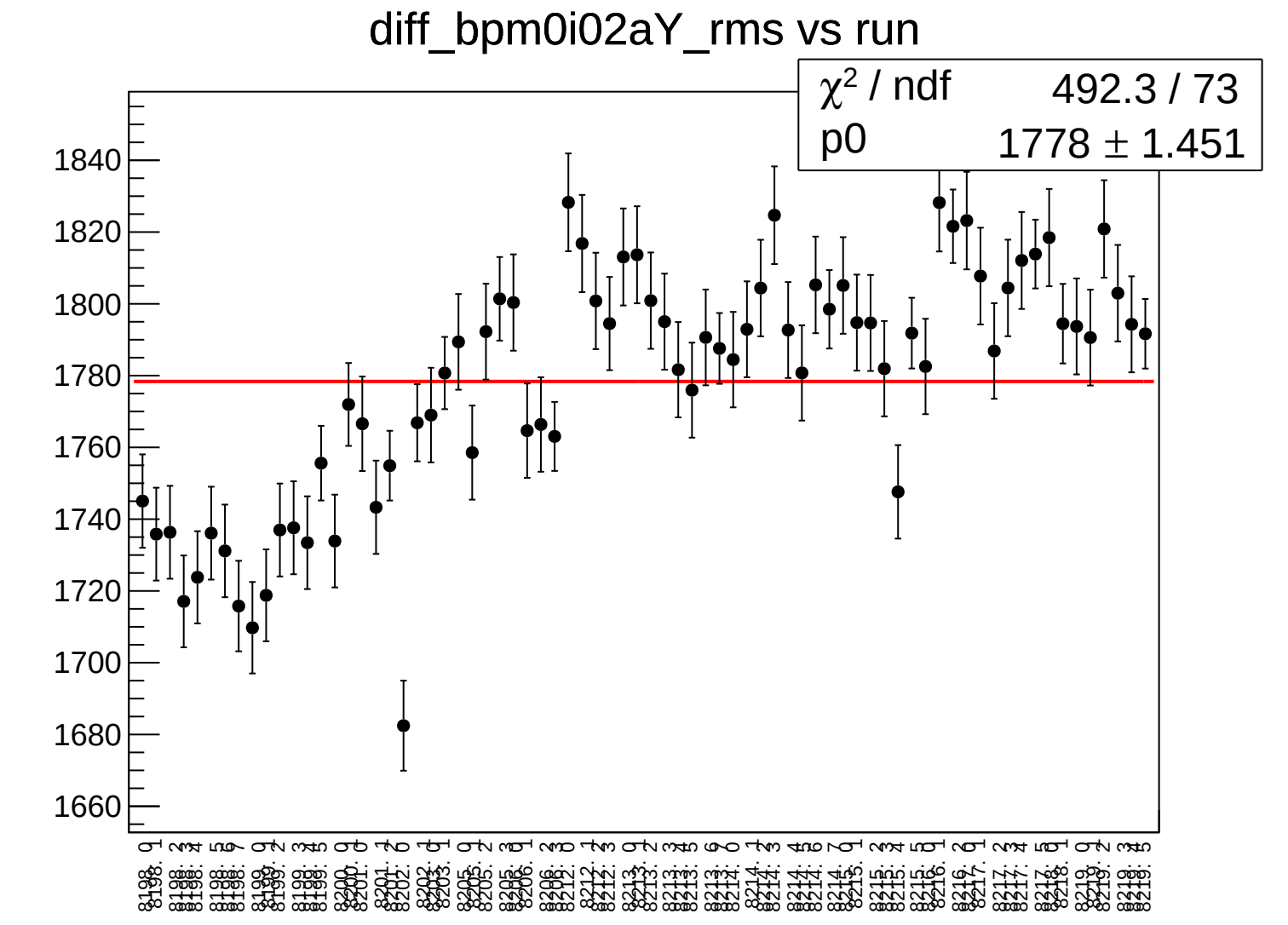

diff_bpm0i02aX_mean vs run
χ² / ndf 176.2 / 73
p0 −64.1 ± 1.67
pull
Entries 74
Mean −598.4
Std Dev 643.4

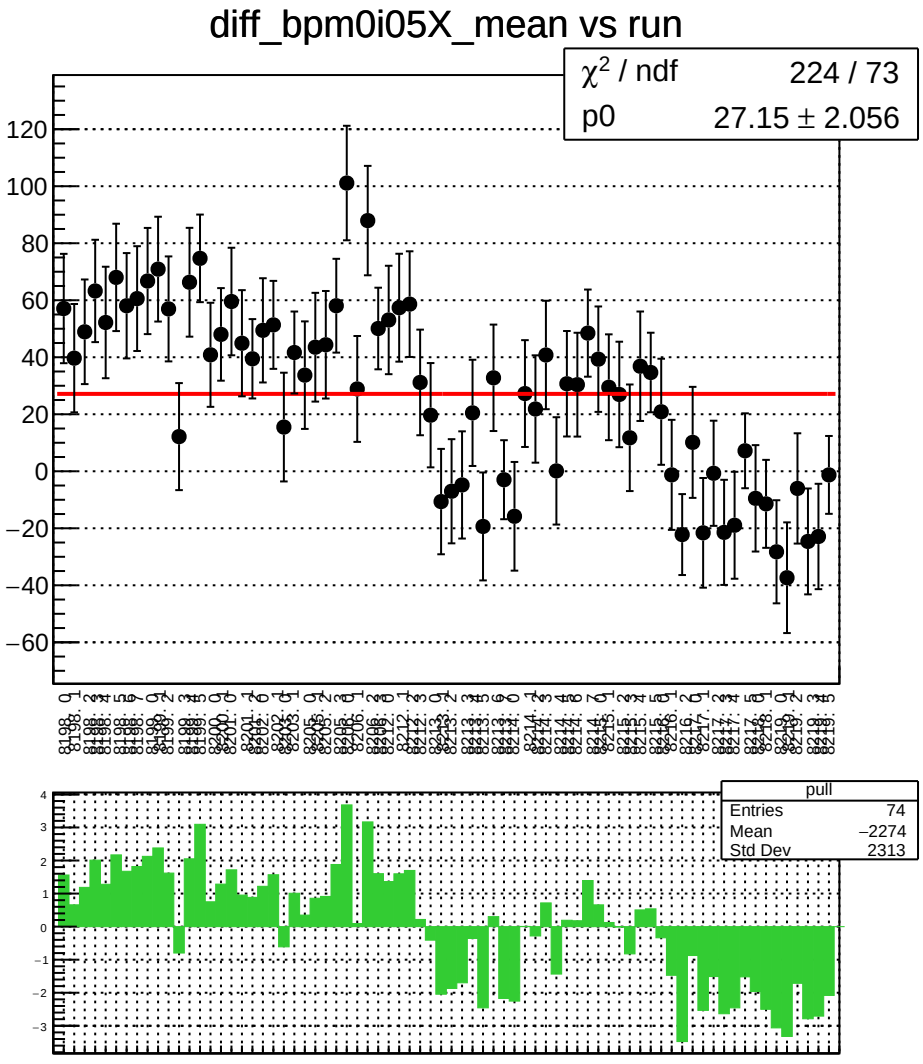

pull1D
Entries 74
Mean −0.02691
Std Dev 1.543

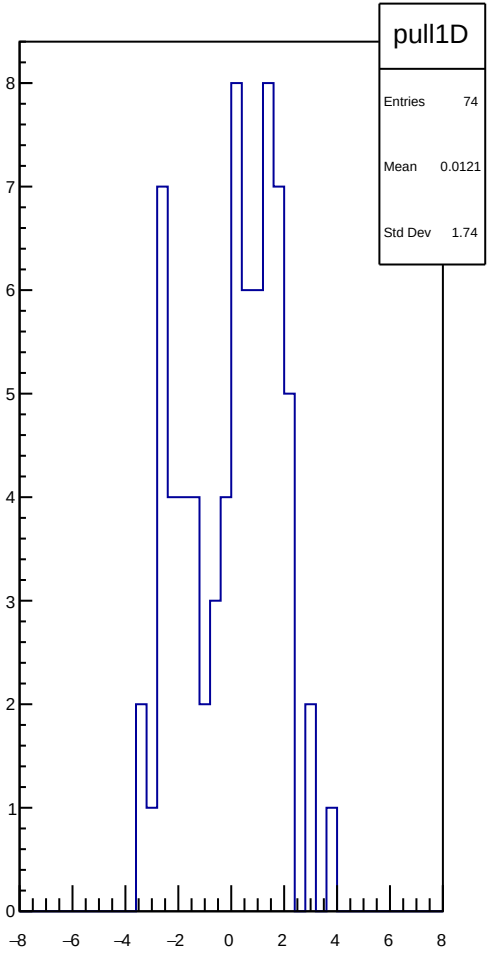

diff_bpm0i02aX_rms vs run
χ² / ndf 98.46 / 73
p0 1448 ± 1.181
1480
1460
1440
1420
1400

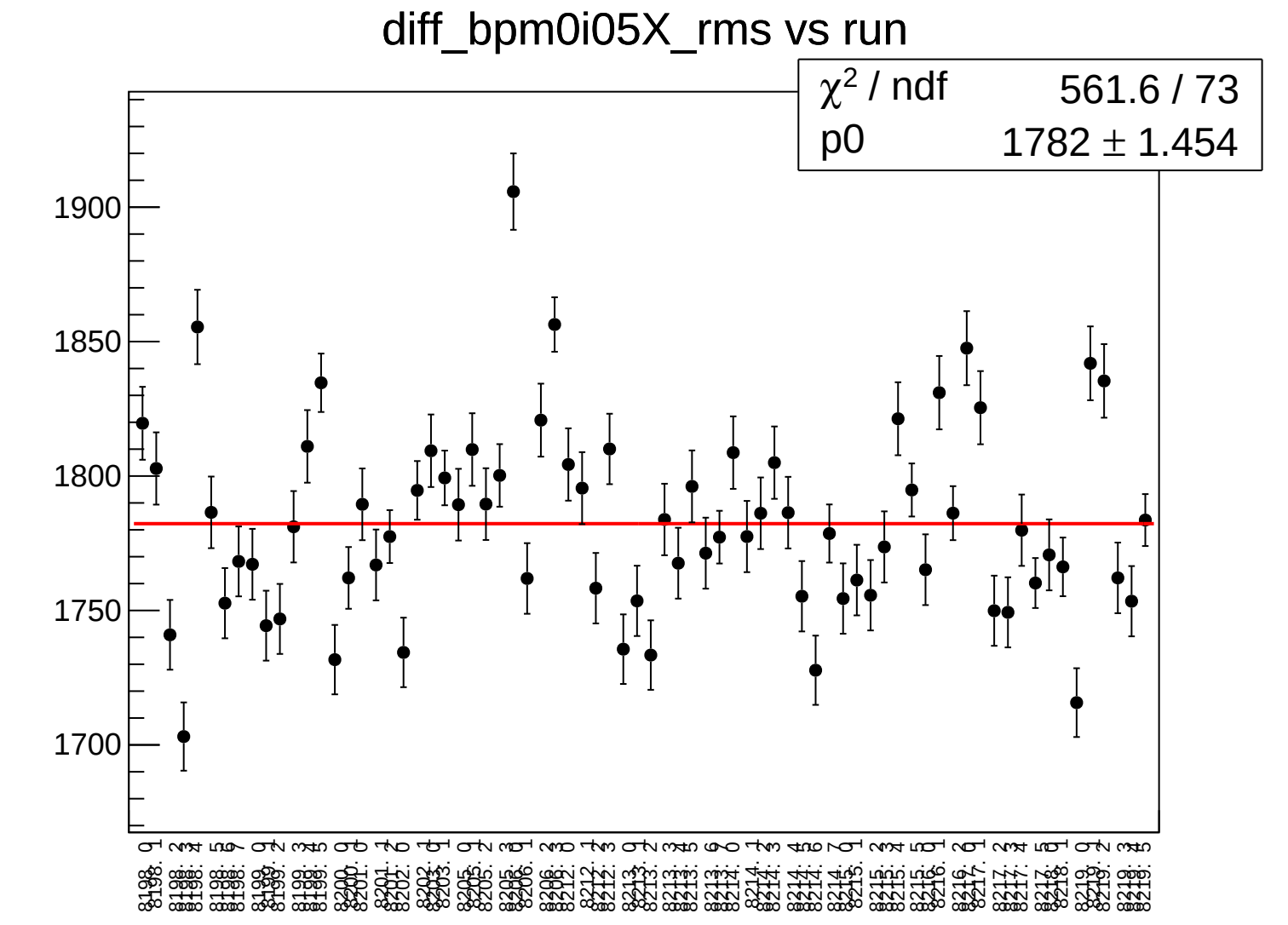

diff_bpm0i02aY_mean vs run
χ² / ndf 223.1 / 73
p0 52.93 ± 2.052
pull
Entries 74
Mean 1654
Std Dev 1620

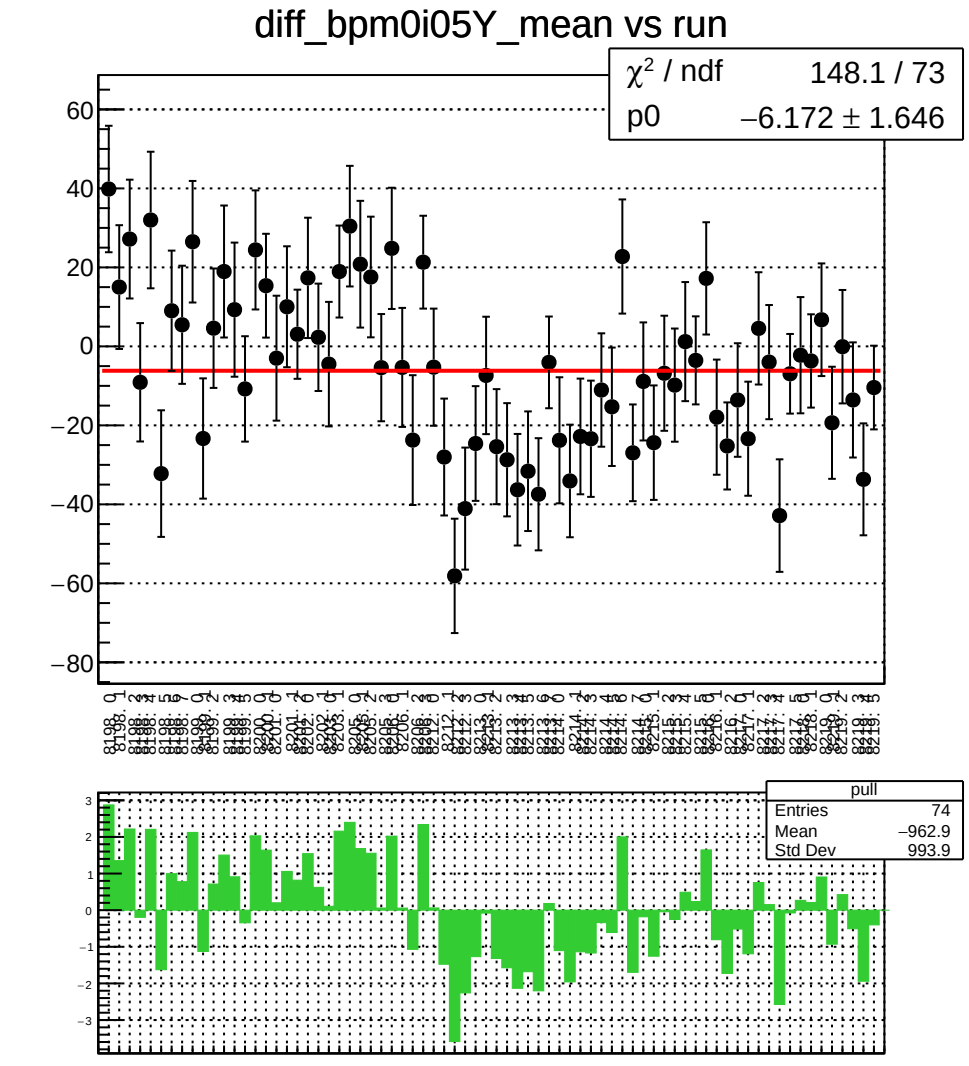

pull1D
Entries 74
Mean 0.01597
Std Dev 1.736

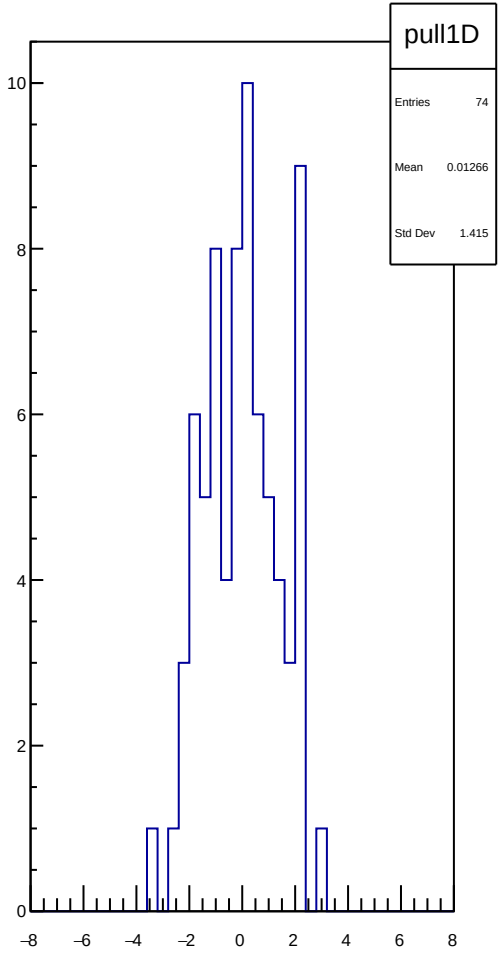

diff_bpm0i02aY_rms vs run
χ² / ndf 492.3 / 73
p0 1778 ± 1.451
1840
1820
1800
1780
1760
1740
1720
1700
1680
1660

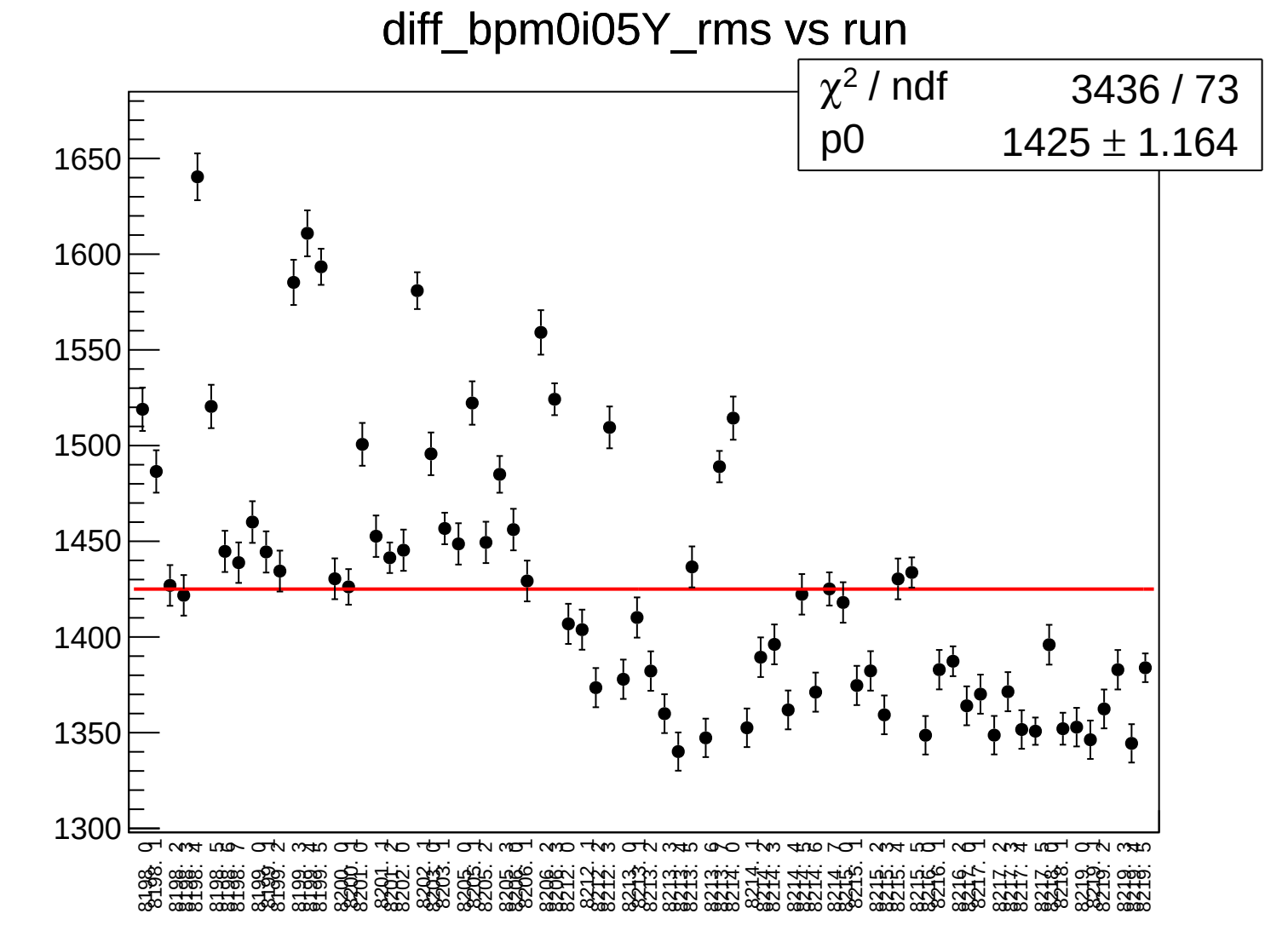

diff_bpm0i05X_mean vs run
χ² / ndf 224 / 73
p0 27.15 ± 2.056
pull
Entries 74
Mean −2274
Std Dev 2313

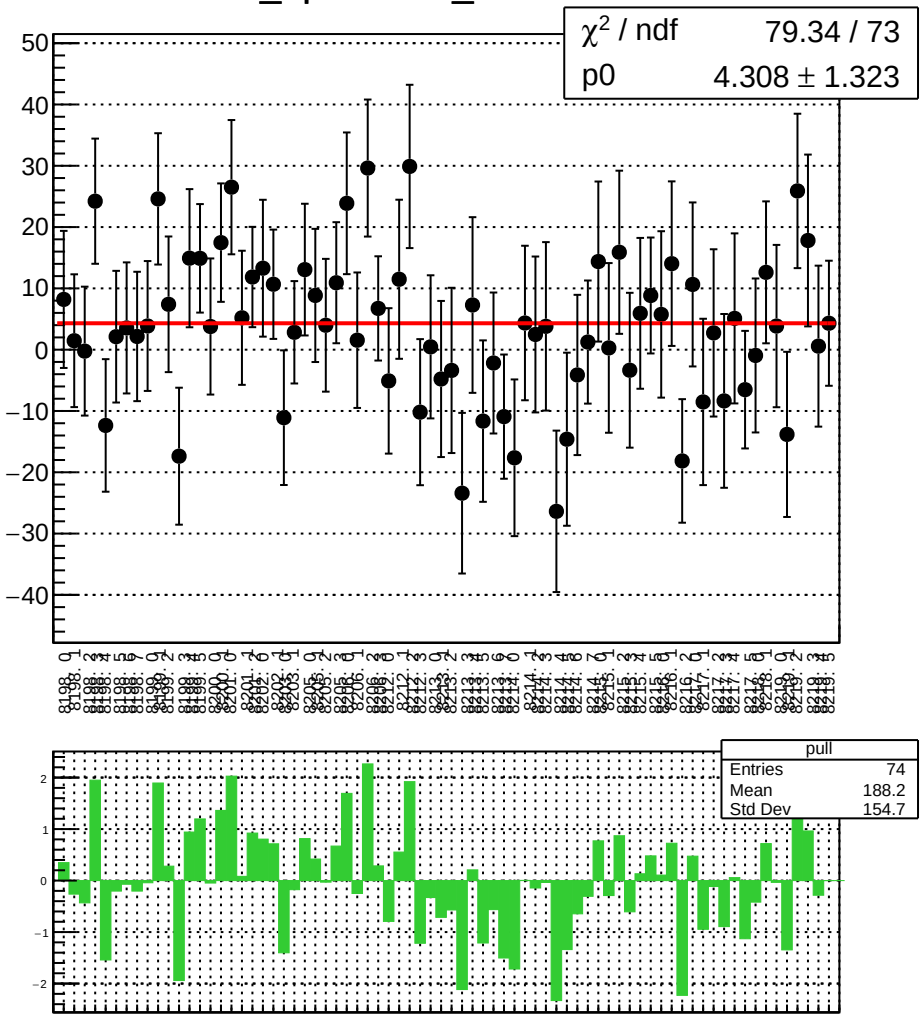

pull1D
Entries 74
Mean 0.0121
Std Dev 1.74

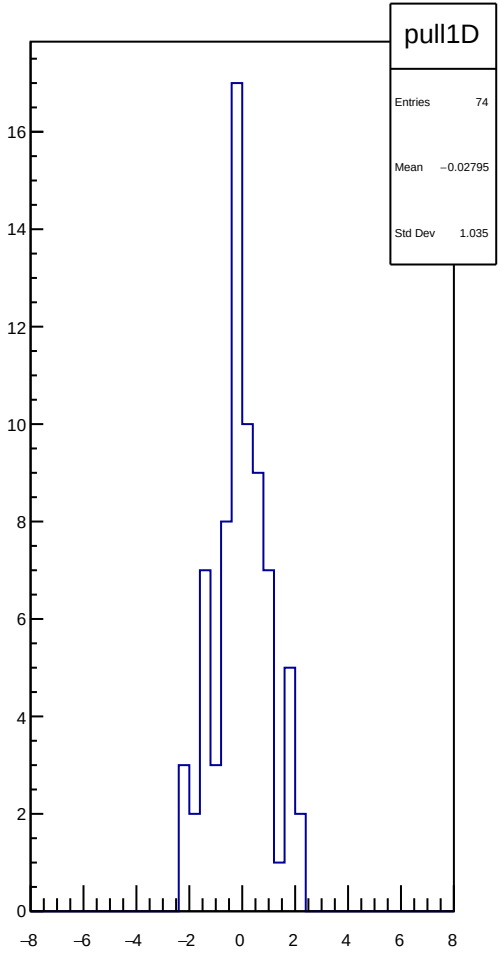

diff_bpm0i05X_rms vs run
χ² / ndf 561.6 / 73
p0 1782 ± 1.454
1900
1850
1800
1750
1700

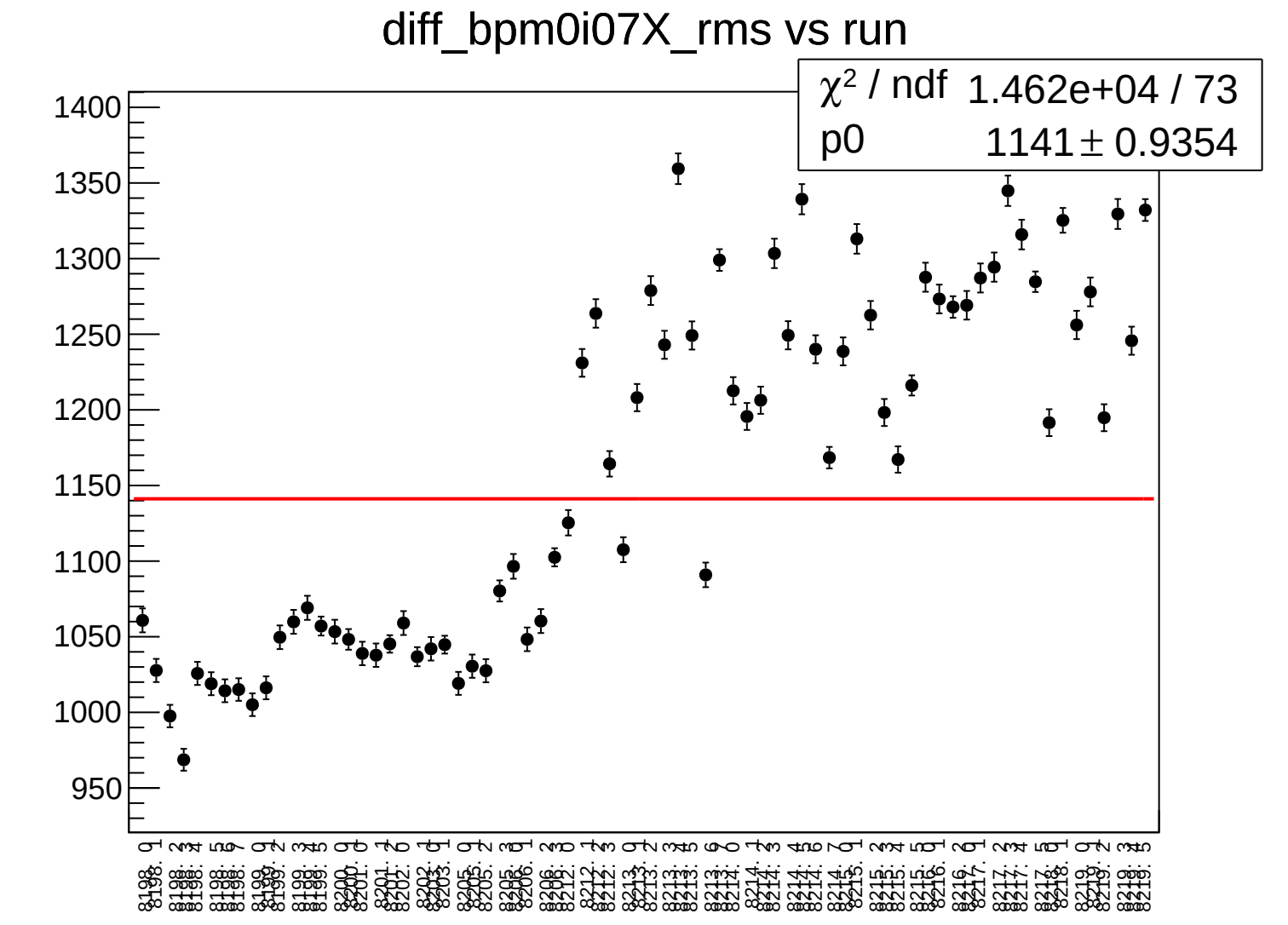

diff_bpm0i05Y_mean vs run
χ² / ndf 148.1 / 73
p0 −6.172 ± 1.646
pull
Entries 74
Mean −962.9
Std Dev 993.9

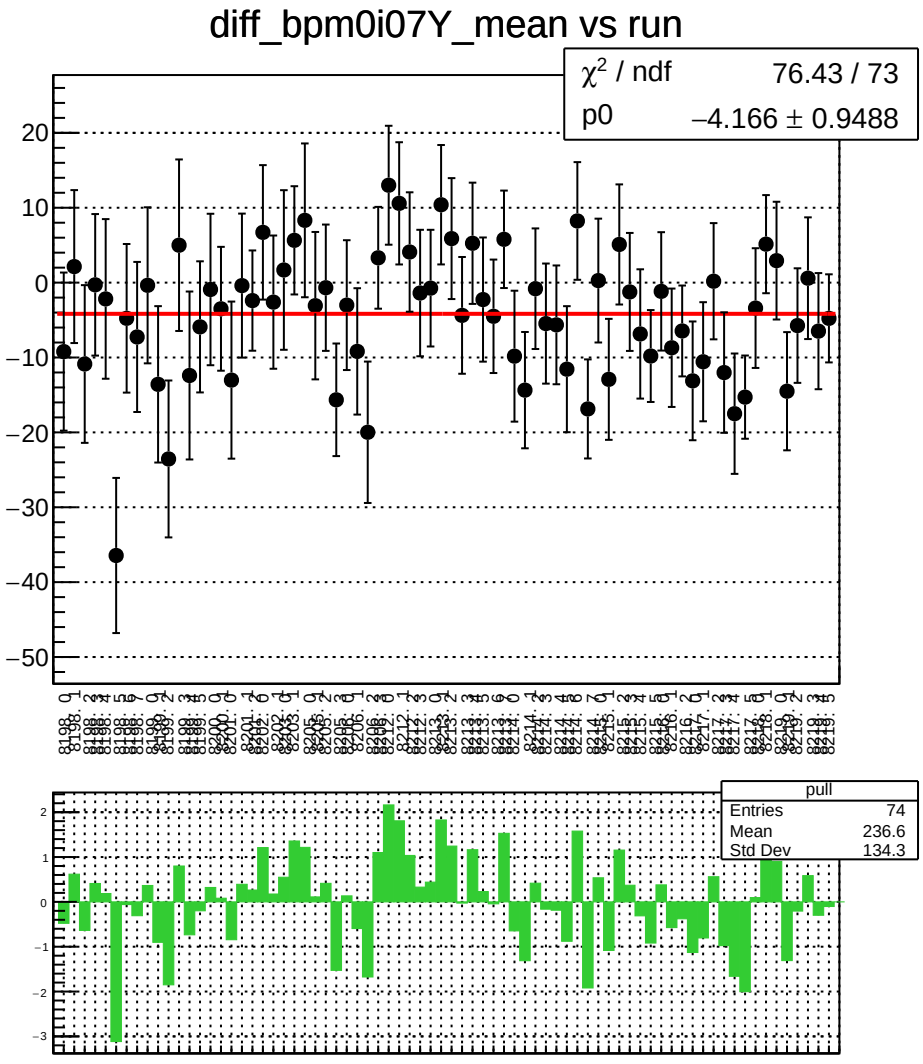

pull1D
Entries 74
Mean 0.01266
Std Dev 1.415

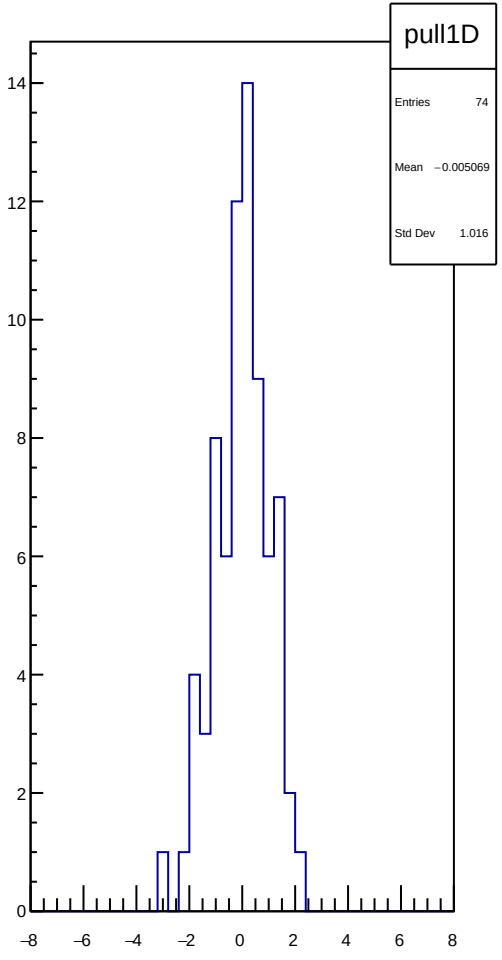

diff_bpm0i05Y_rms vs run
χ² / ndf 3436 / 73
p0 1425 ± 1.164
1650
1600
1550
1500
1450
1400
1350
1300

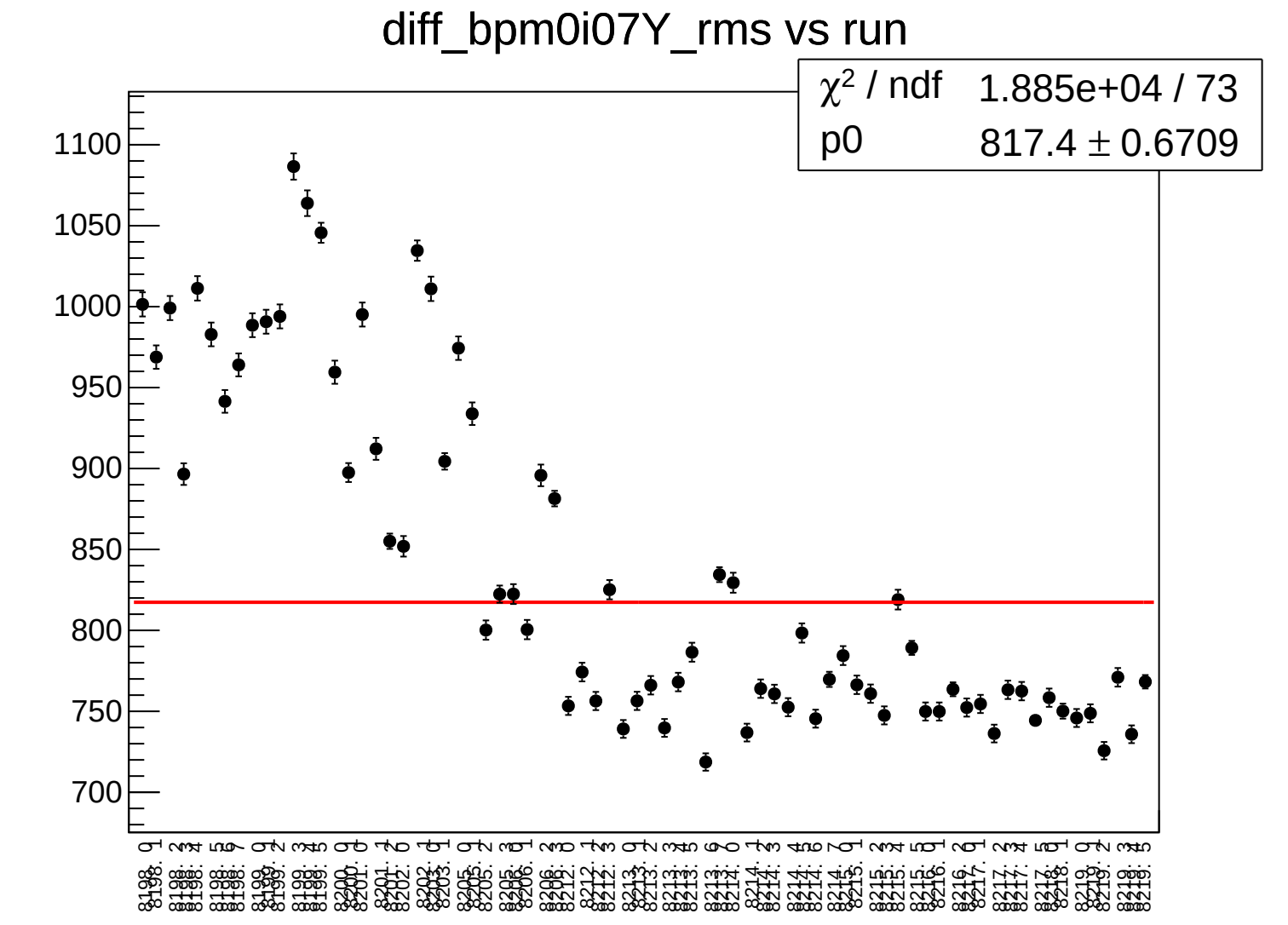

diff_bpm0i07X_mean vs run
χ² / ndf 79.34 / 73
p0 4.308 ± 1.323
pull
Entries 74
Mean 188.2
Std Dev 154.7

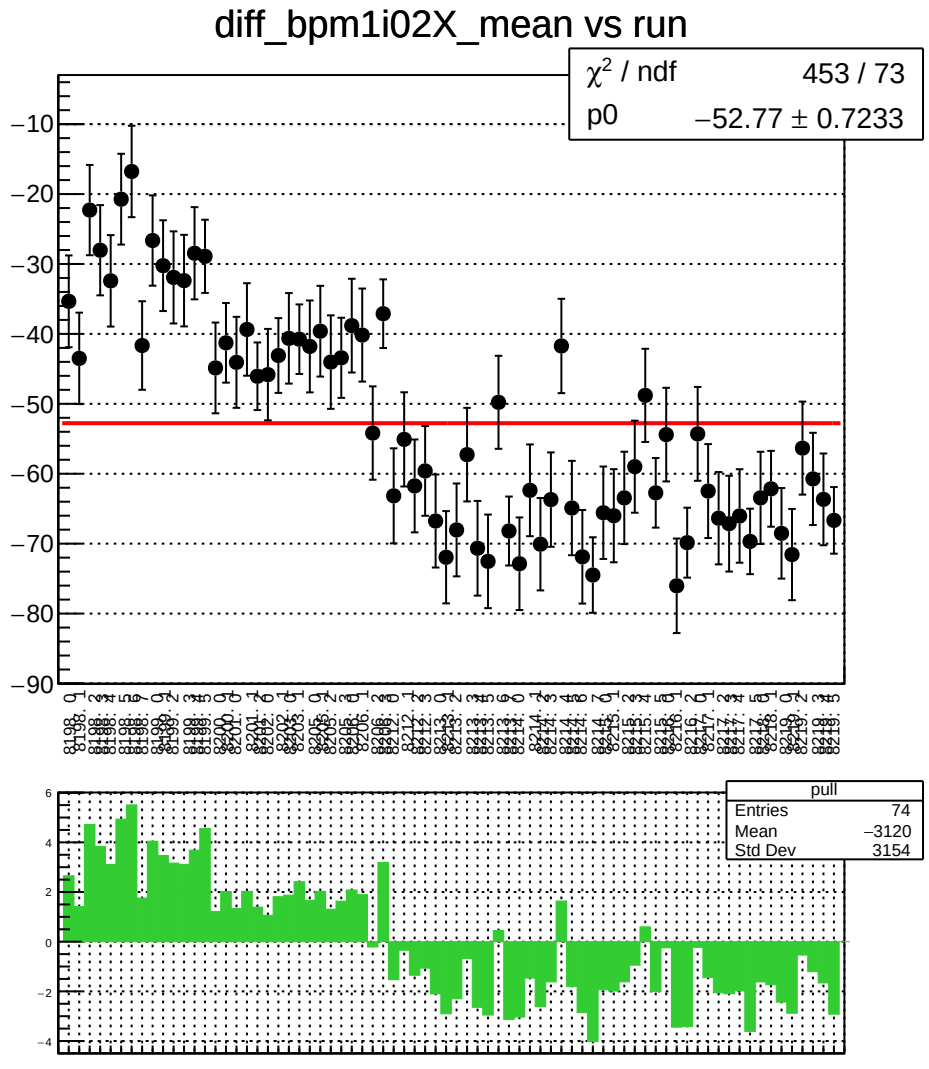

pull1D
Entries 74
Mean −0.02795
Std Dev 1.035

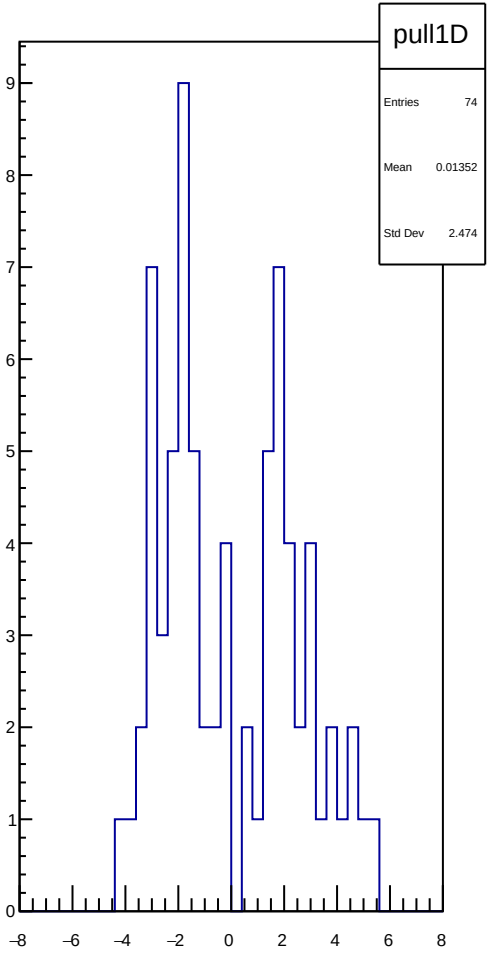

diff_bpm0i07X_rms vs run
χ² / ndf 1.462e+04 / 73
p0 1141 ± 0.9354
1400
1350
1300
1250
1200
1150
1100
1050
1000
950

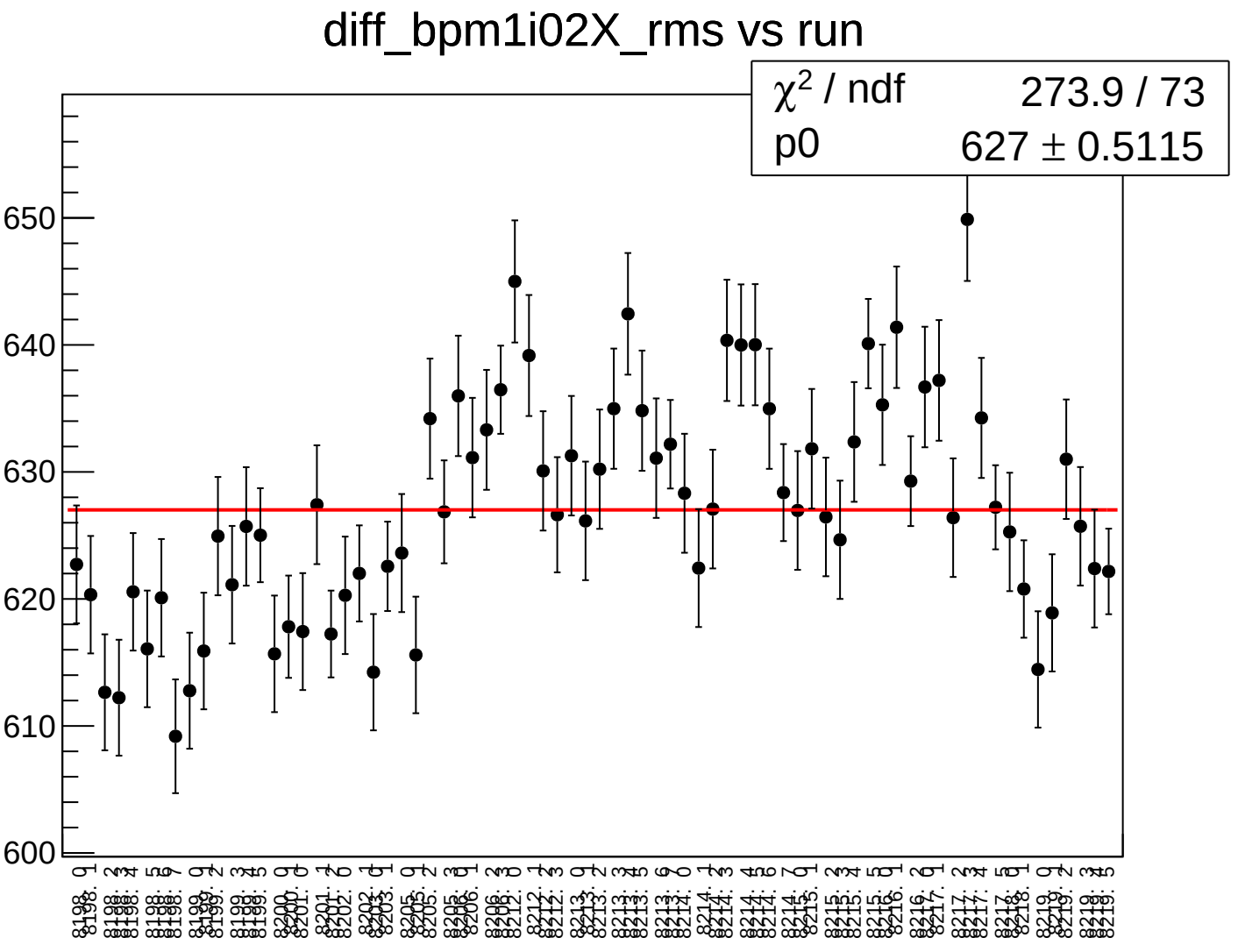

diff_bpm0i07Y_mean vs run
χ² / ndf 76.43 / 73
p0 −4.166 ± 0.9488
pull
Entries 74
Mean 236.6
Std Dev 134.3

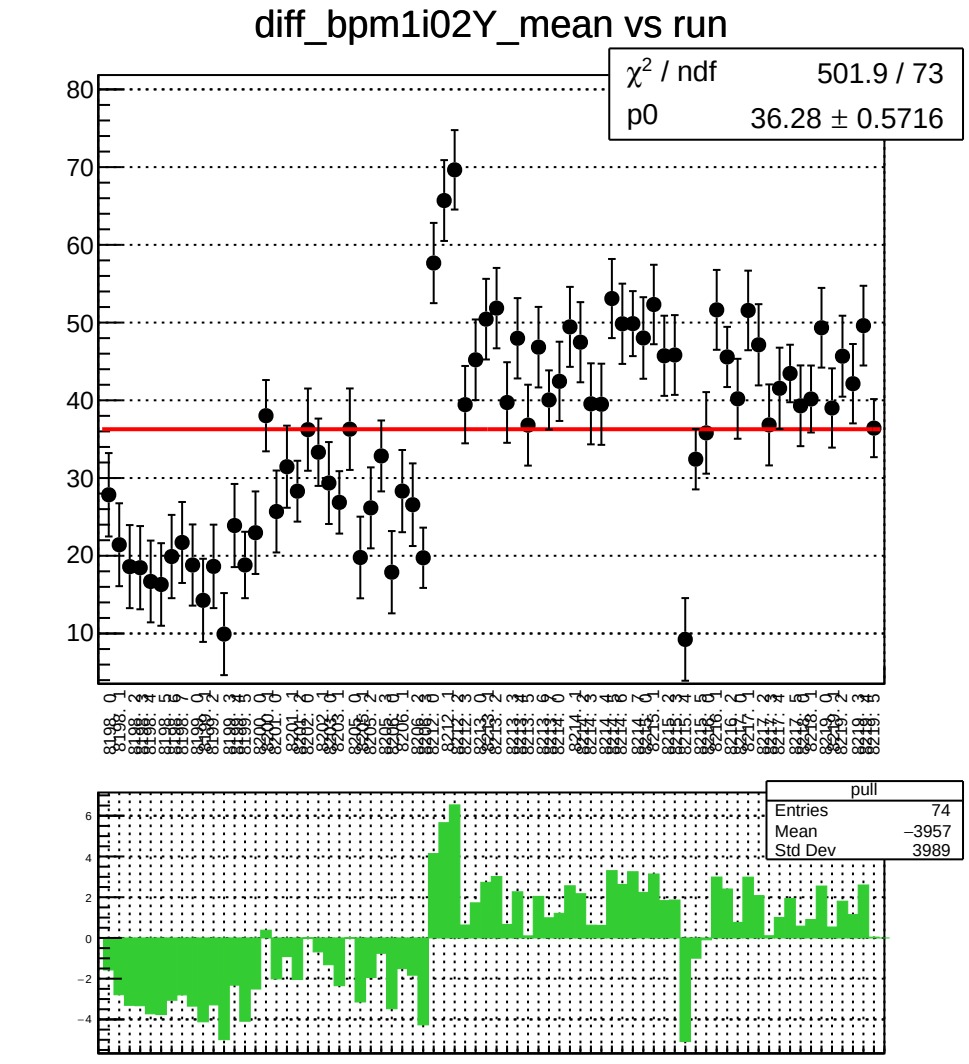

pull1D
Entries 74
Mean −0.005069
Std Dev 1.016

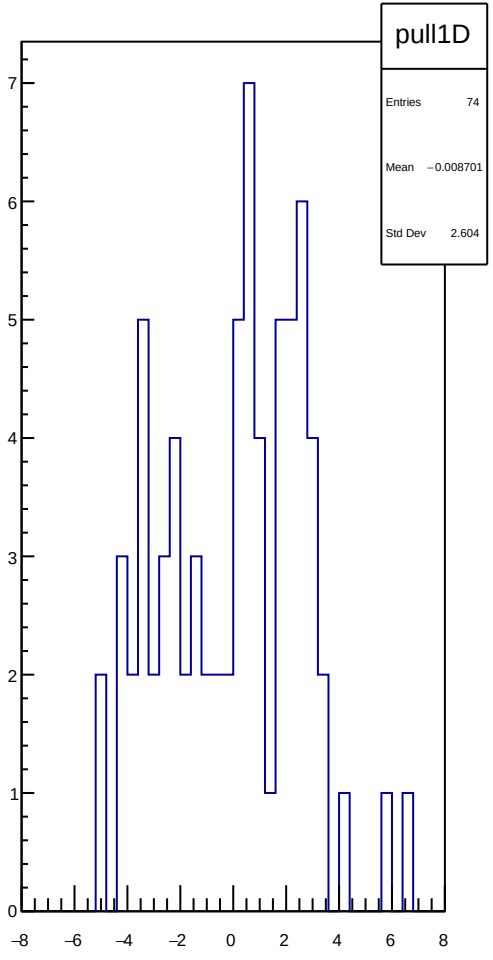

diff_bpm0i07Y_rms vs run
χ² / ndf 1.885e+04 / 73
p0 817.4 ± 0.6709
1100
1050
1000
950
900
850
800
750
700

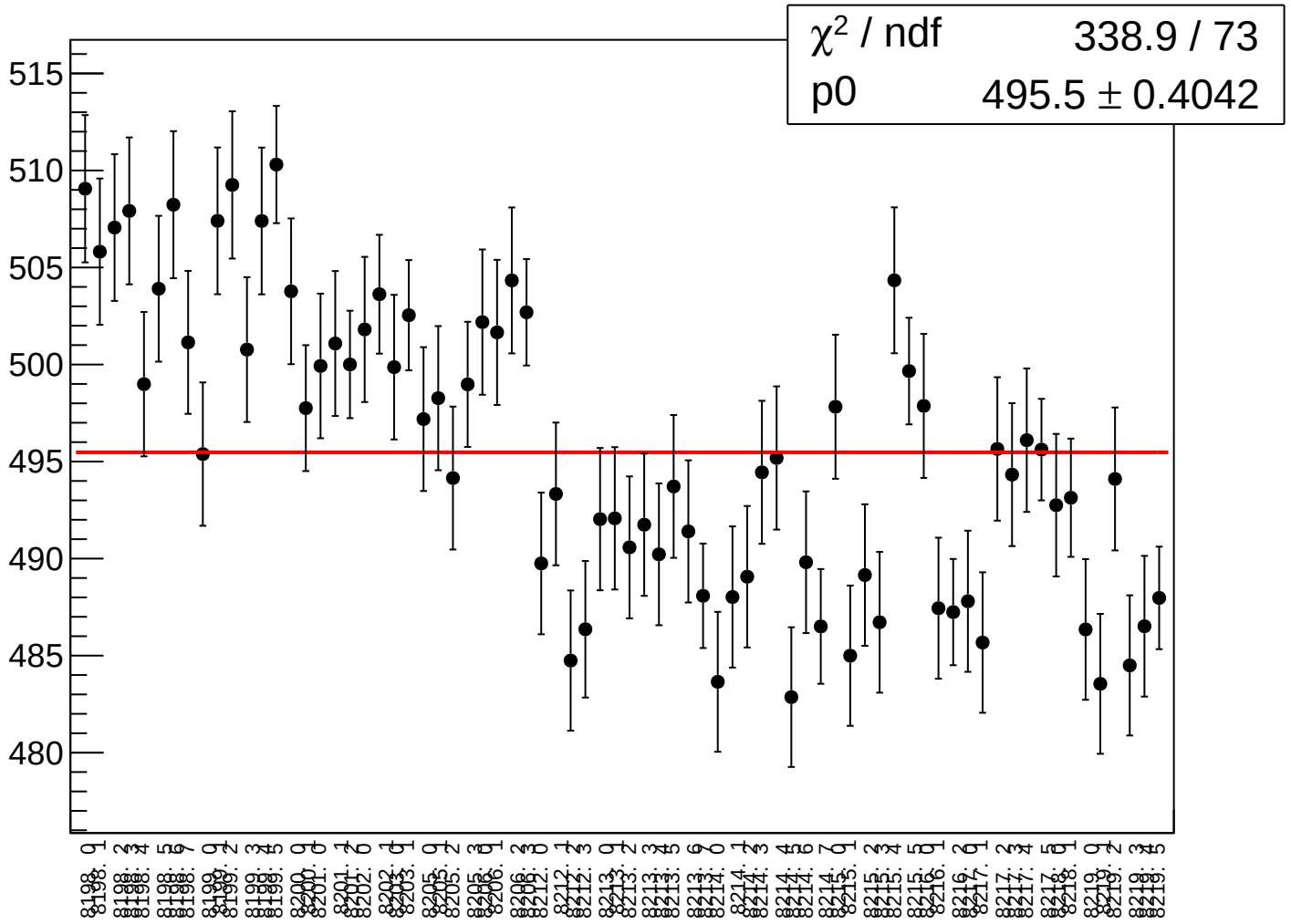

diff_bpm1i02X_mean vs run
χ² / ndf 453 / 73
p0 −52.77 ± 0.7233
pull
Entries 74
Mean −3120
Std Dev 3154

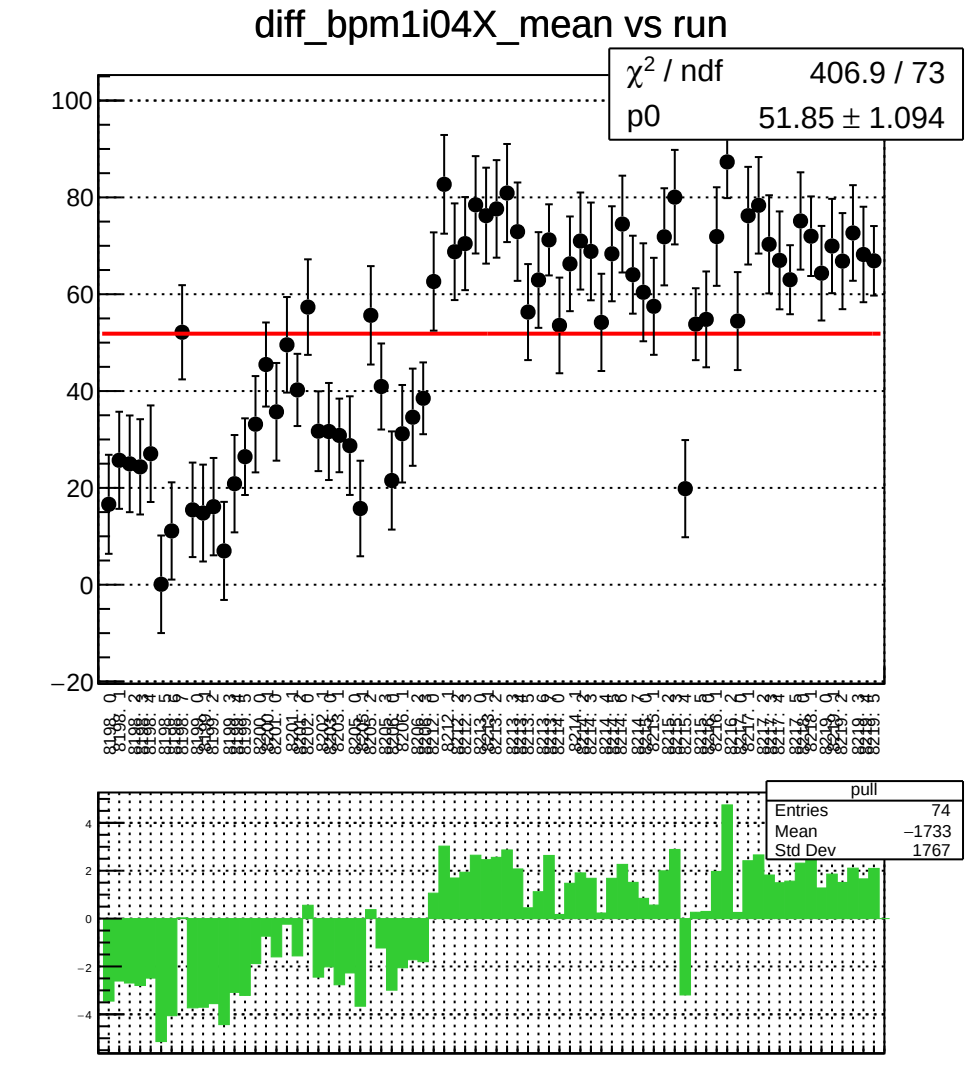

pull1D
Entries 74
Mean 0.01352
Std Dev 2.474

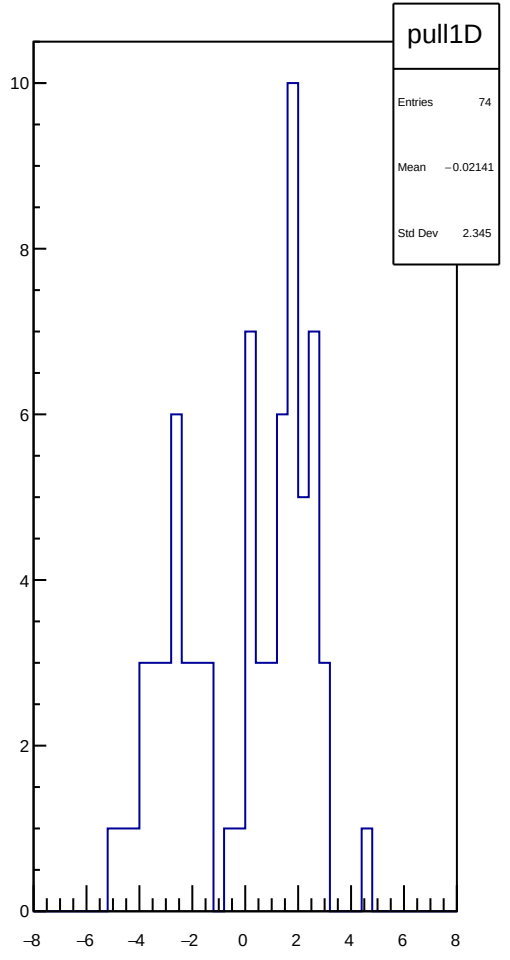

diff_bpm1i02X_rms vs run
χ^2 / ndf 273.9 / 73
p0 627 ± 0.5115
650
640
630
620
610
600

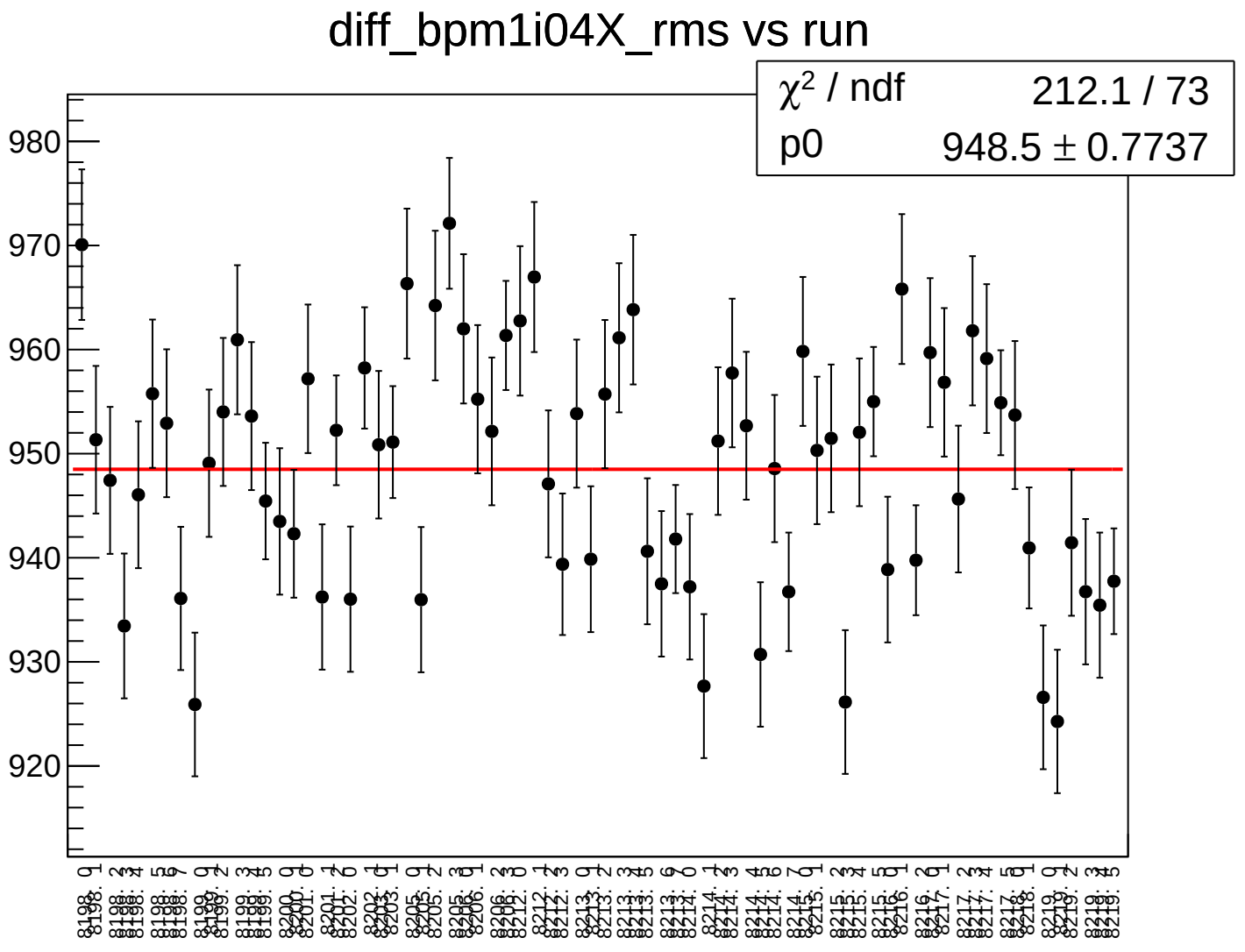

diff_bpm1i02Y_mean vs run
χ² / ndf 501.9 / 73
p0 36.28 ± 0.5716
pull
Entries 74
Mean −3957
Std Dev 3989

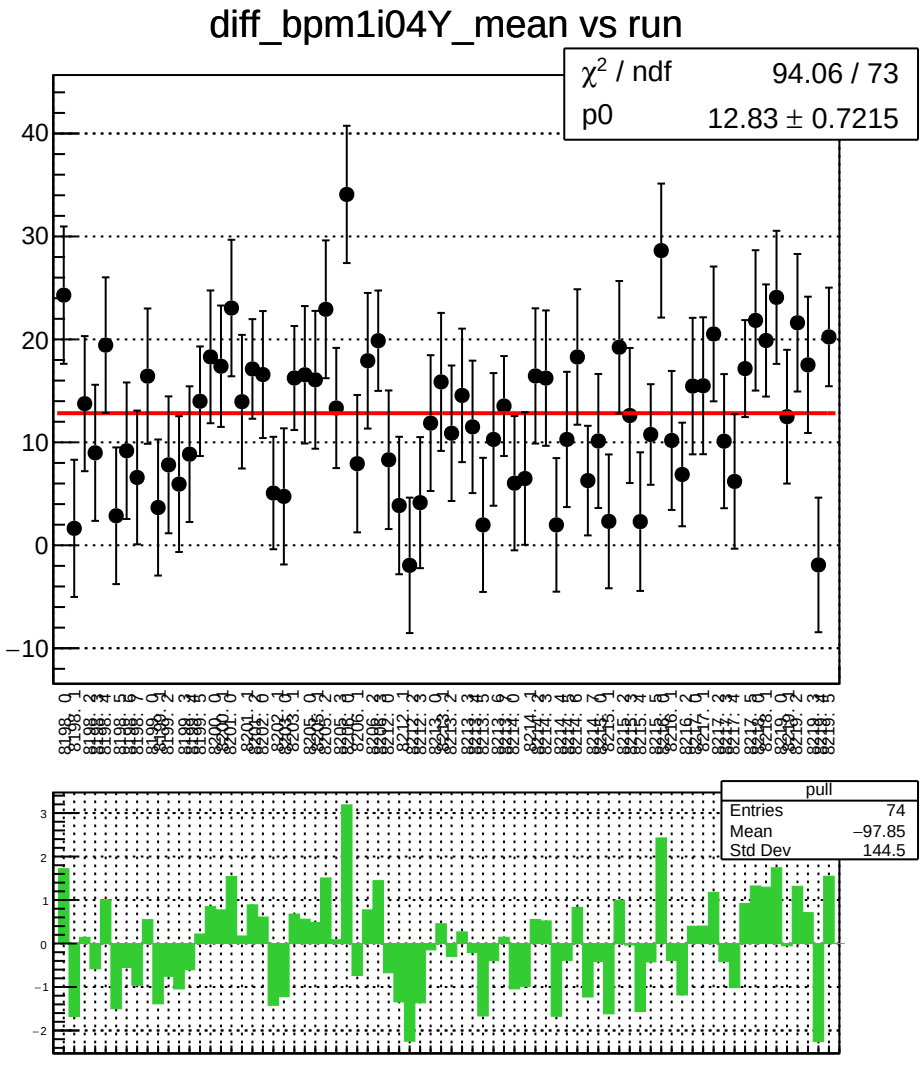

pull1D
Entries 74
Mean −0.008701
Std Dev 2.604

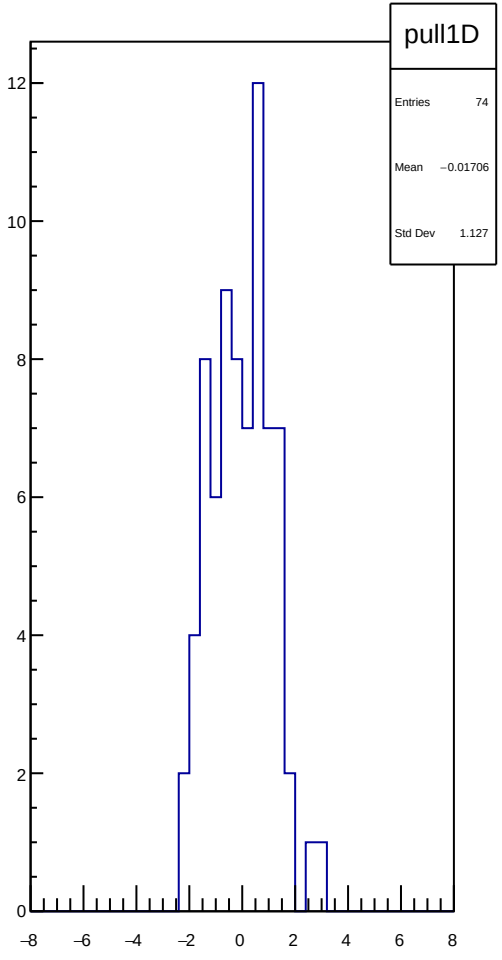

diff_bpm1i02Y_rms vs run
χ² / ndf 338.9 / 73
p0 495.5 ± 0.4042
515
510
505
500
495
490
485
480

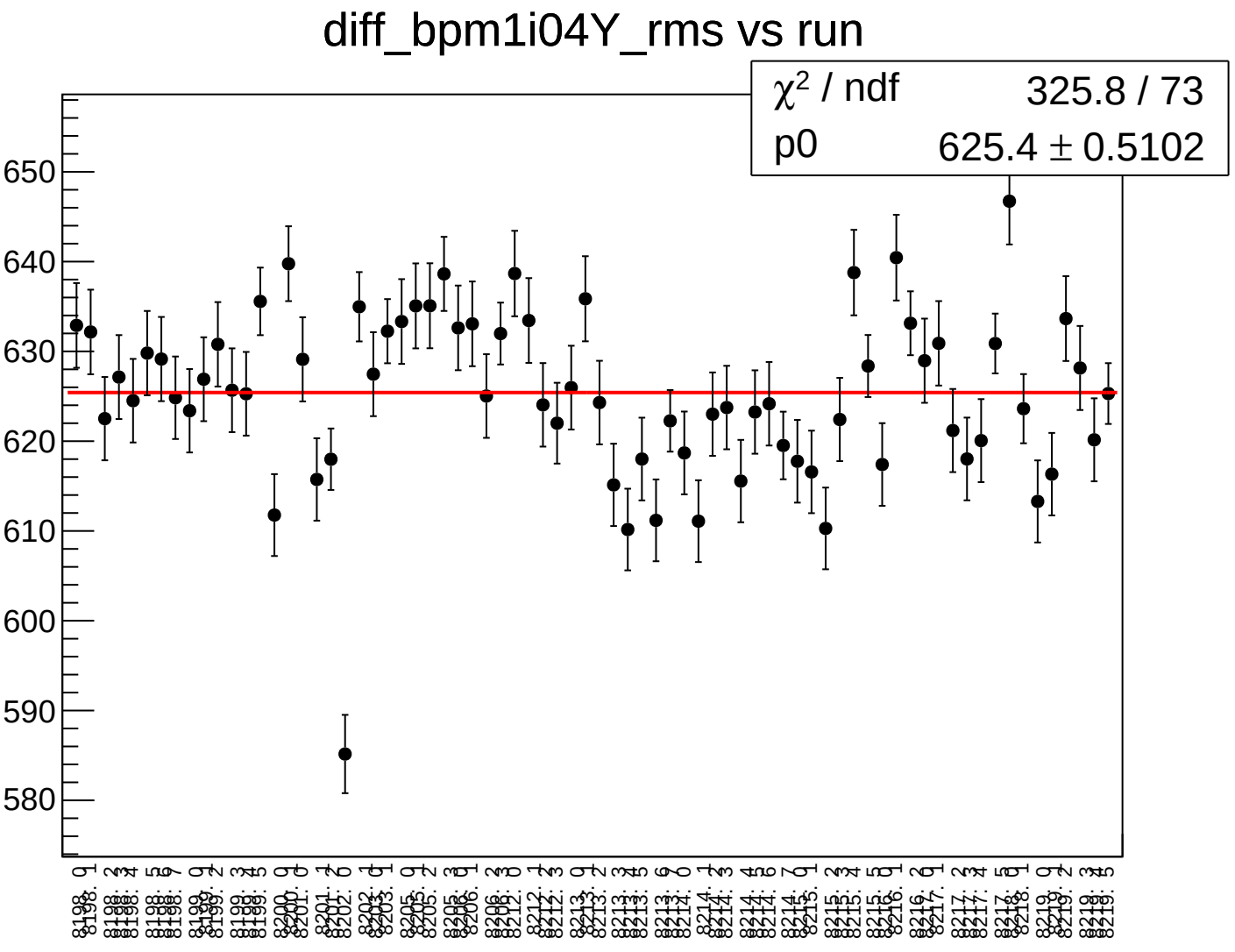

diff_bpm1i04X_mean vs run
χ² / ndf 406.9 / 73
p0 51.85 ± 1.094
pull
Entries 74
Mean −1733
Std Dev 1767

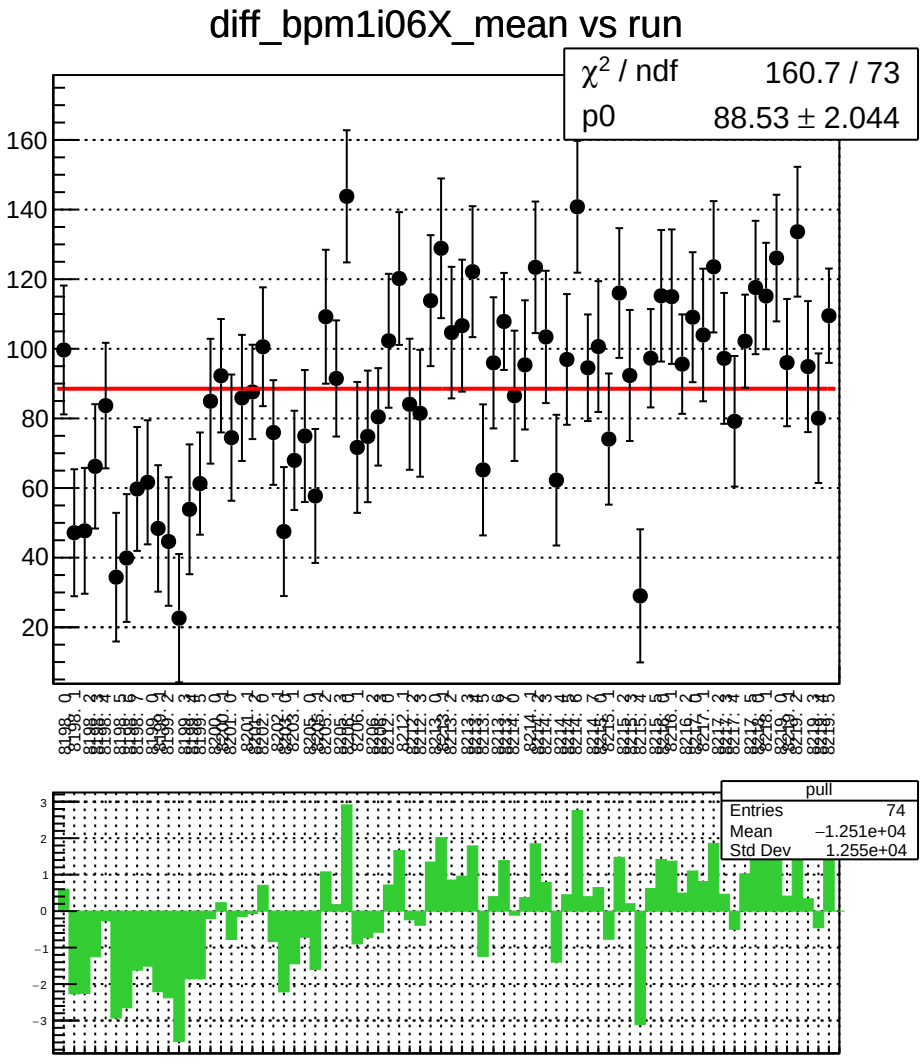

pull1D
Entries 74
Mean −0.02141
Std Dev 2.345

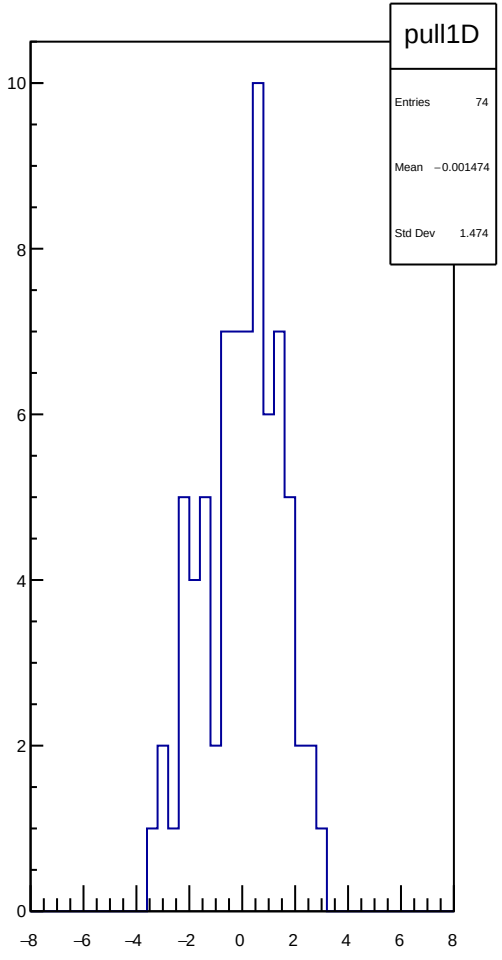

diff_bpm1i04X_rms vs run
χ² / ndf 212.1 / 73
p0 948.5 ± 0.7737
980
970
960
950
940
930
920

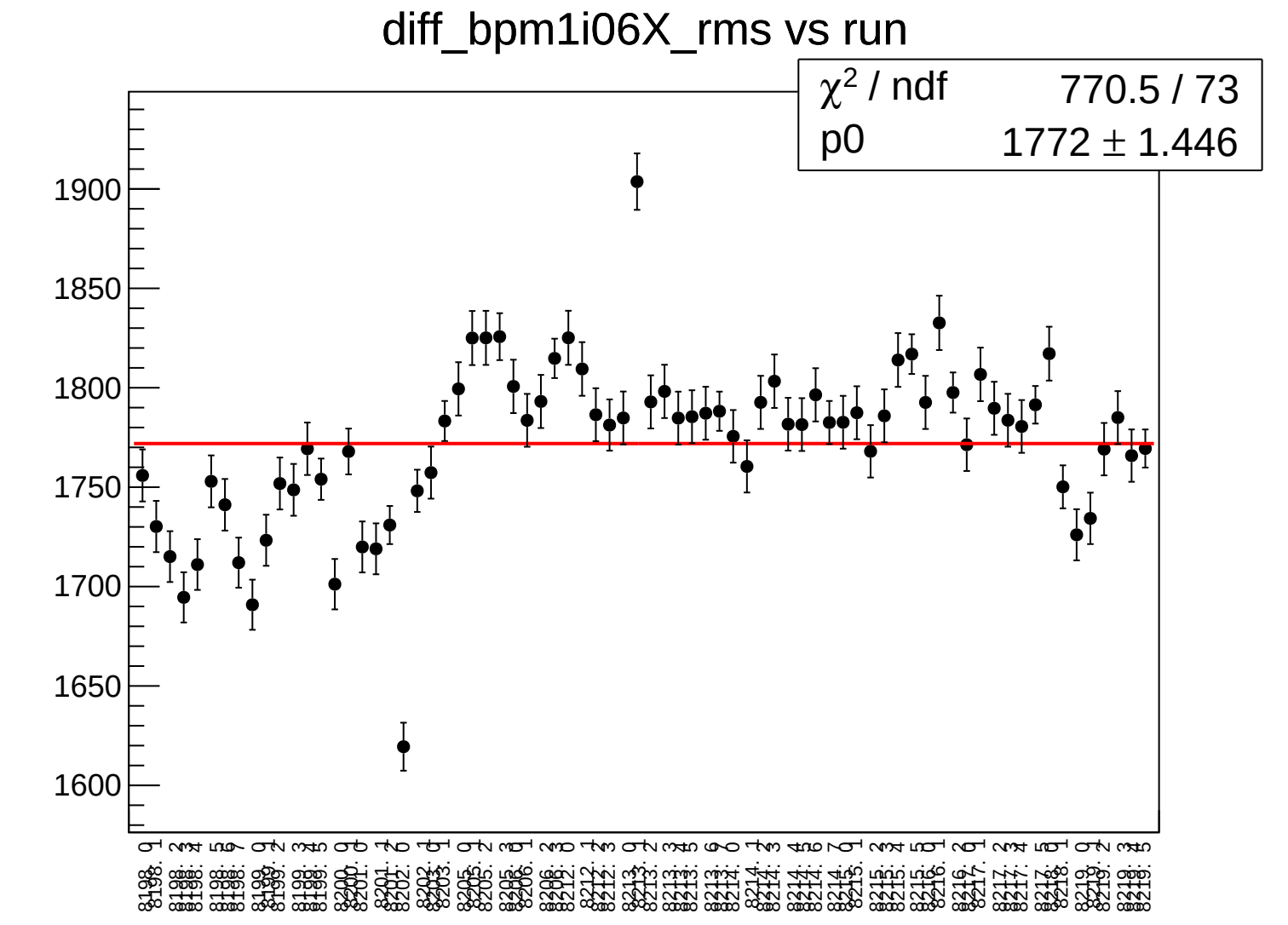

diff_bpm1i04Y_mean vs run
χ² / ndf 94.06 / 73
p0 12.83 ± 0.7215
pull
Entries 74
Mean −97.85
Std Dev 144.5

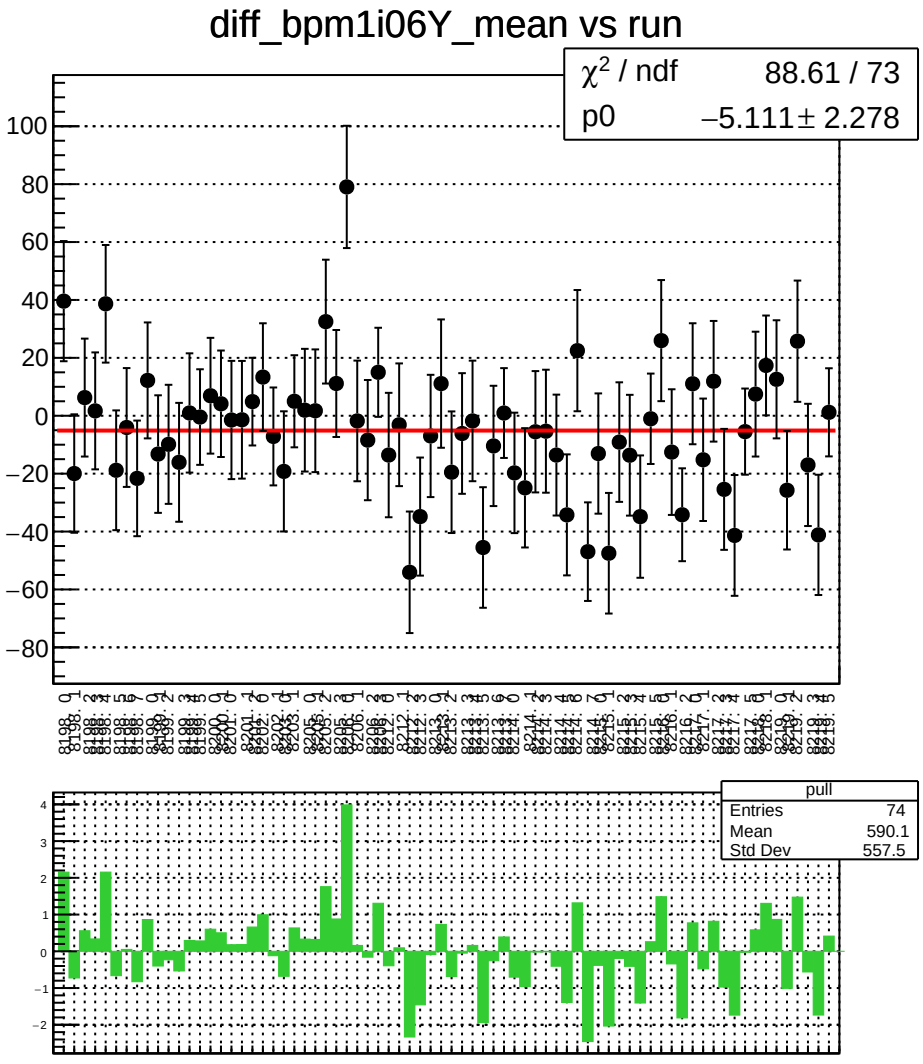

pull1D
Entries 74
Mean −0.01706
Std Dev 1.127

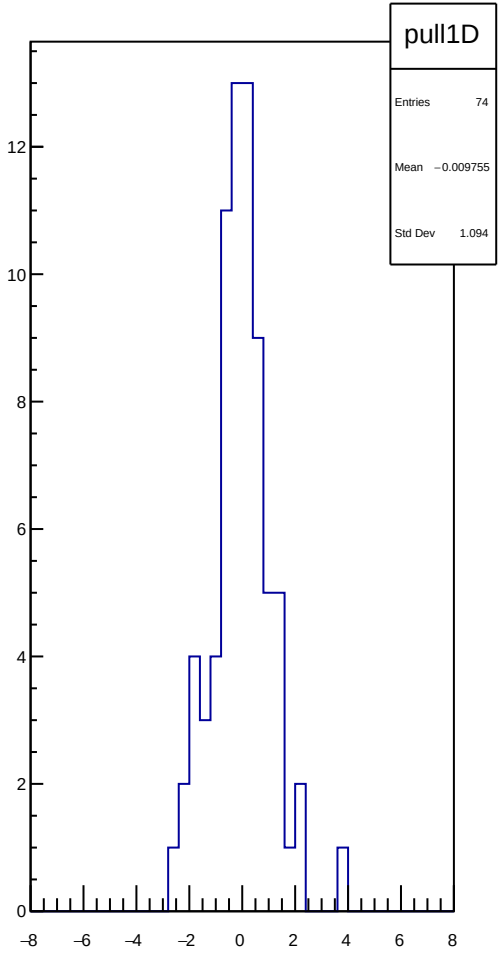

diff_bpm1i04Y_rms vs run
χ² / ndf 325.8 / 73
p0 625.4 ± 0.5102
650
640
630
620
610
600
590
580

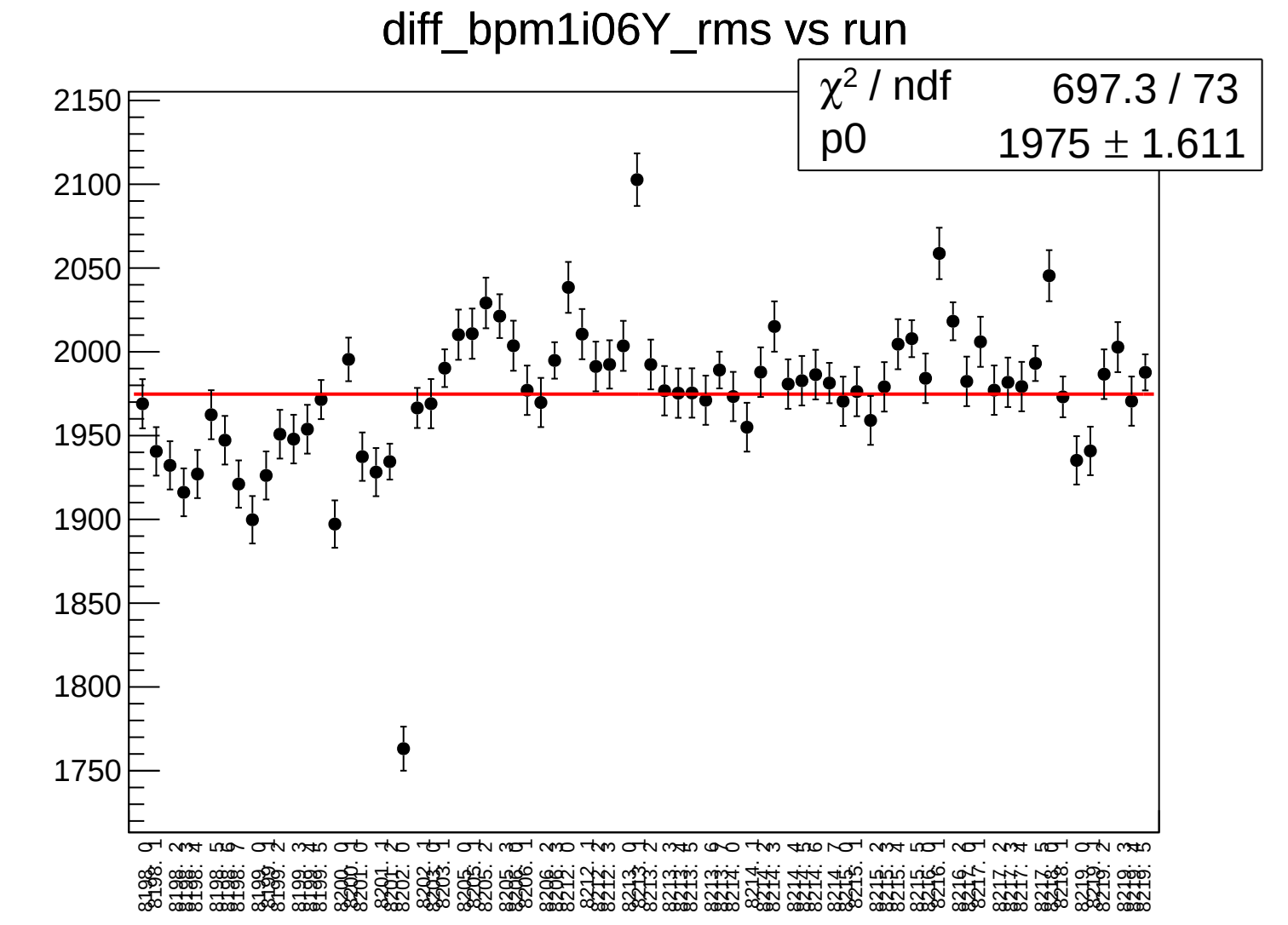

diff_bpm1i06X_mean vs run
χ^2 / ndf 160.7 / 73
p0 88.53 ± 2.044
pull
Entries 74
Mean −1.251e+04
Std Dev 1.255e+04

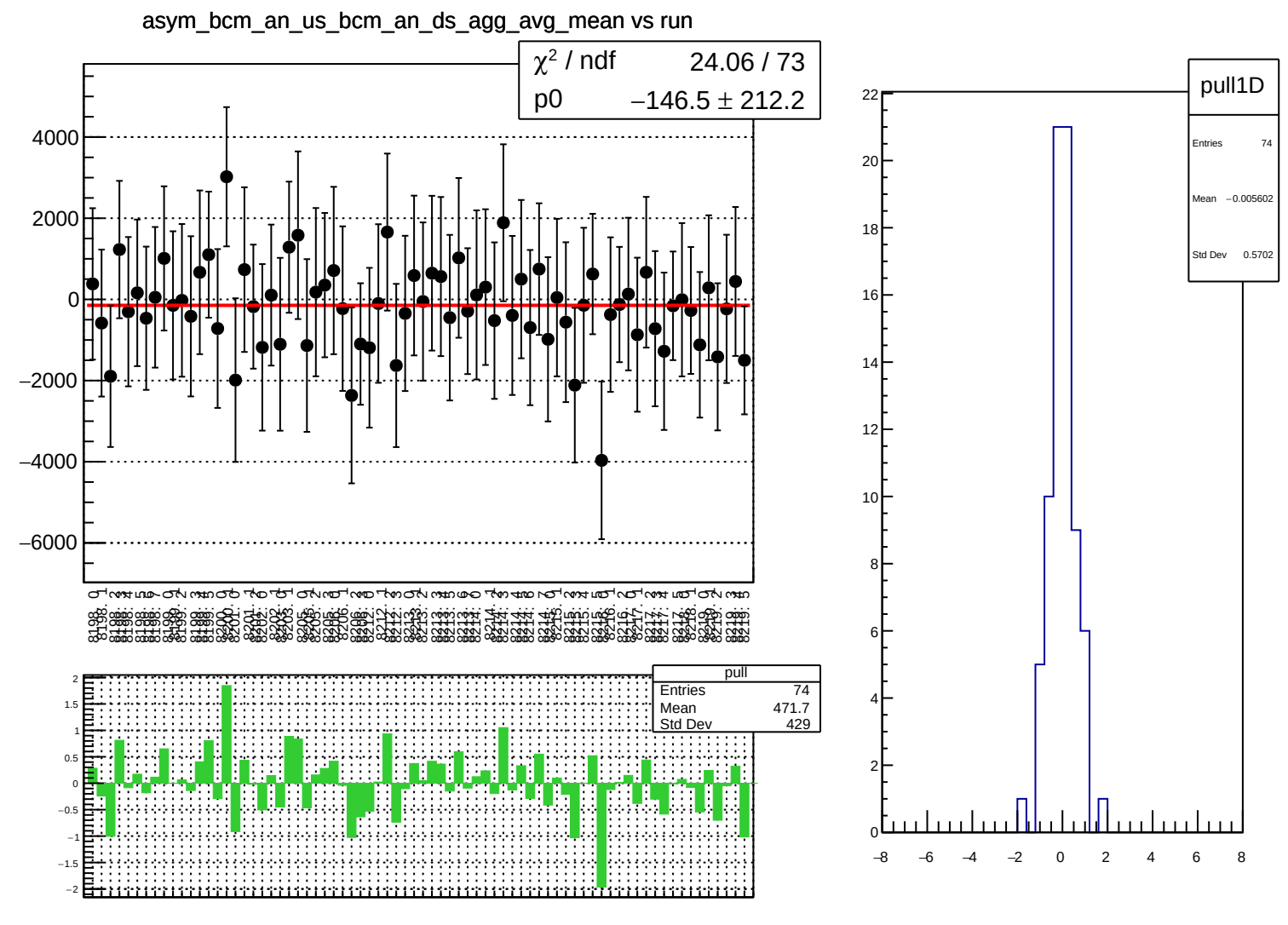

pull1D
Entries 74
Mean −0.001474
Std Dev 1.474

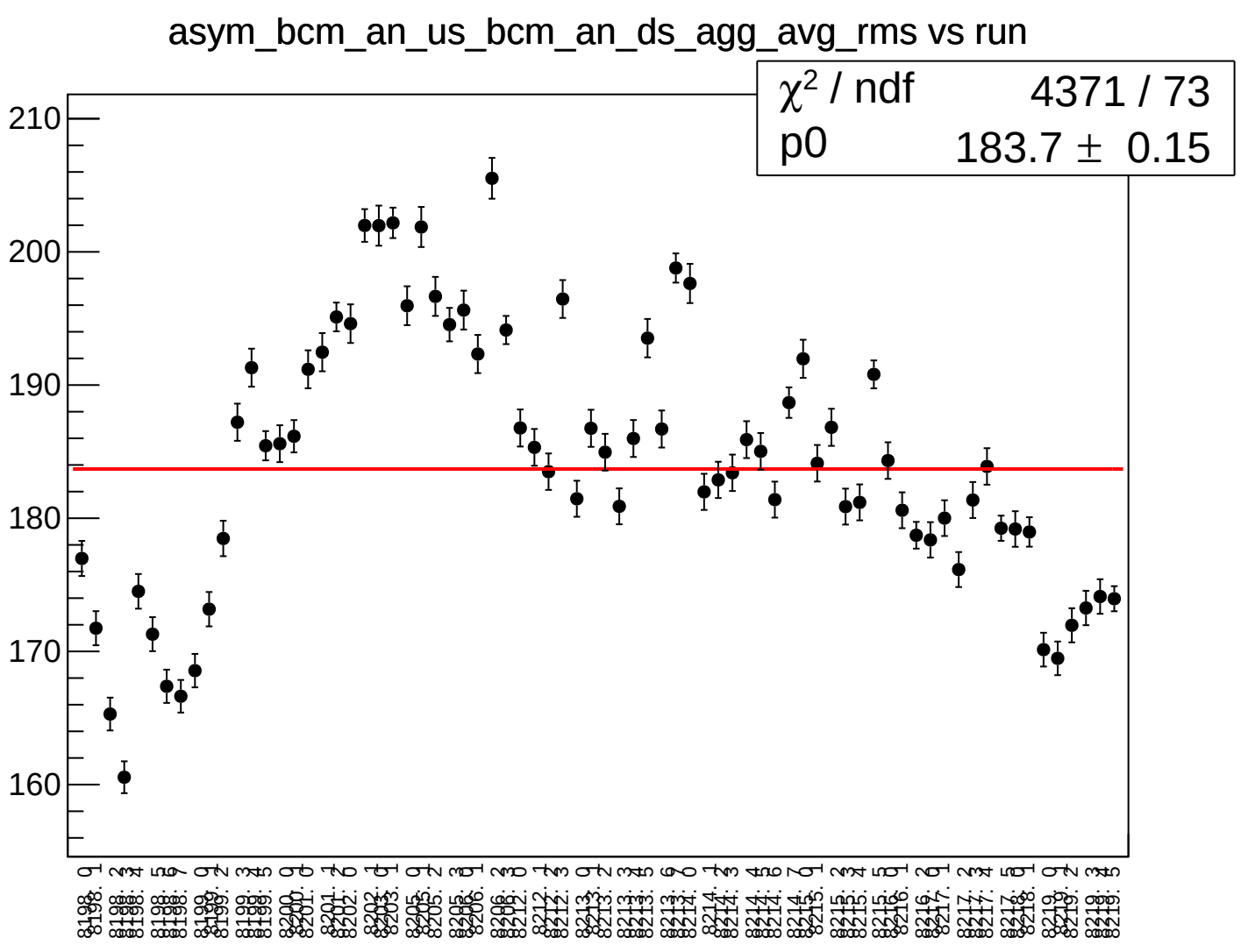

diff_bpm1i06X_rms vs run
χ² / ndf 770.5 / 73
p0 1772 ± 1.446
1900
1850
1800
1750
1700
1650
1600

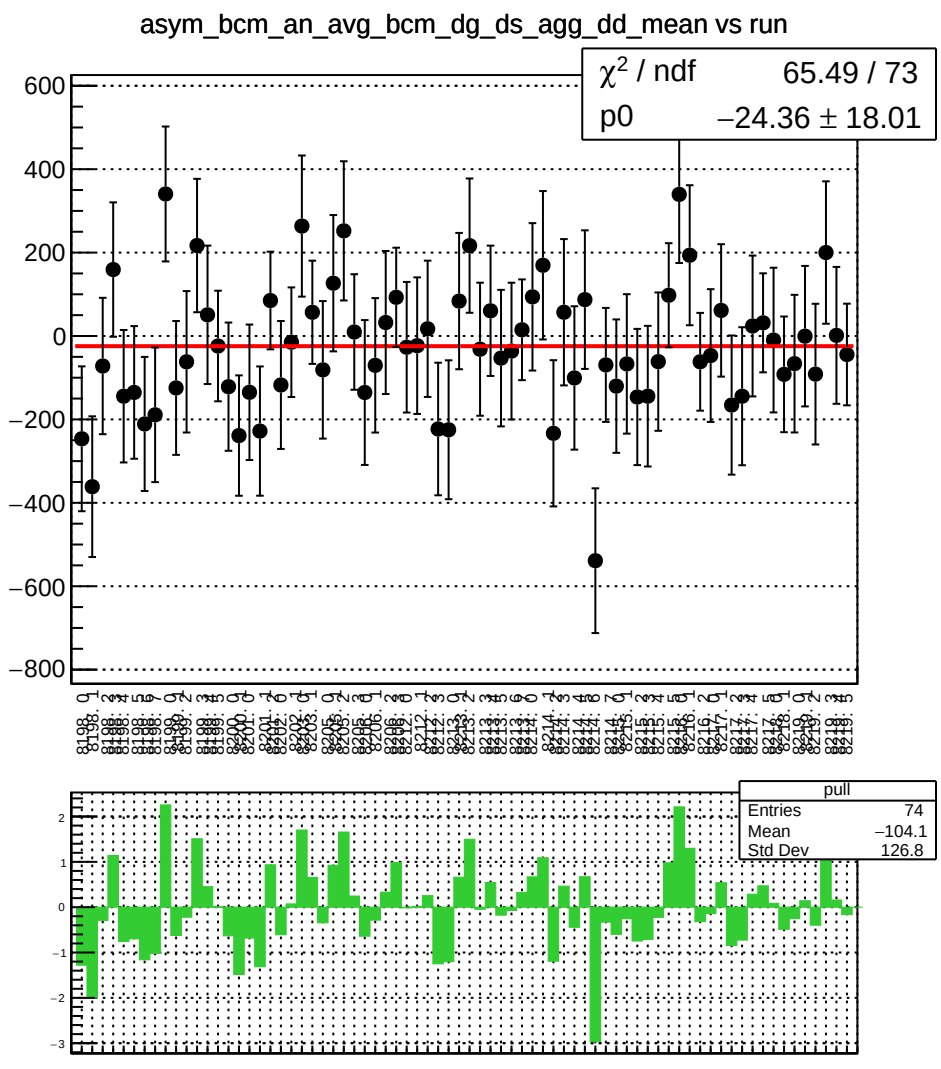

diff_bpm1i06Y_mean vs run
χ² / ndf 88.61 / 73
p0 −5.111 ± 2.278
pull
Entries 74
Mean 590.1
Std Dev 557.5

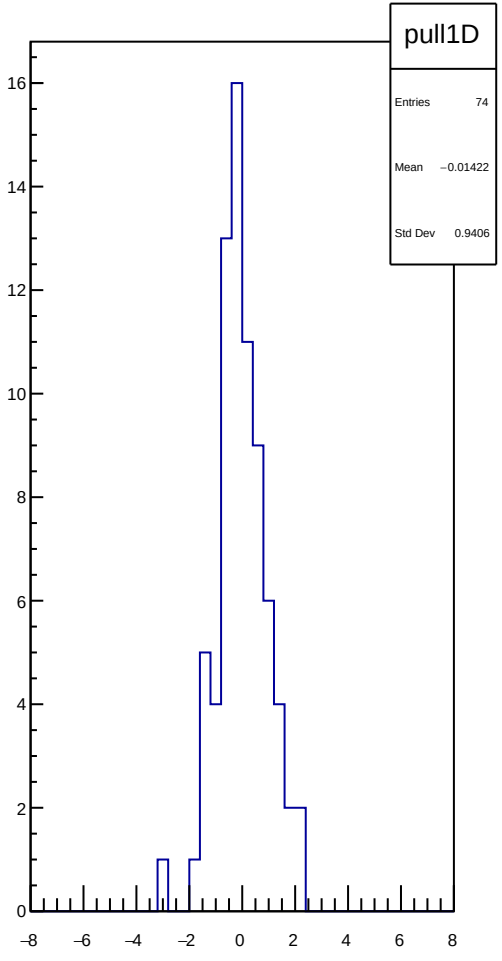

pull1D
Entries 74
Mean −0.009755
Std Dev 1.094

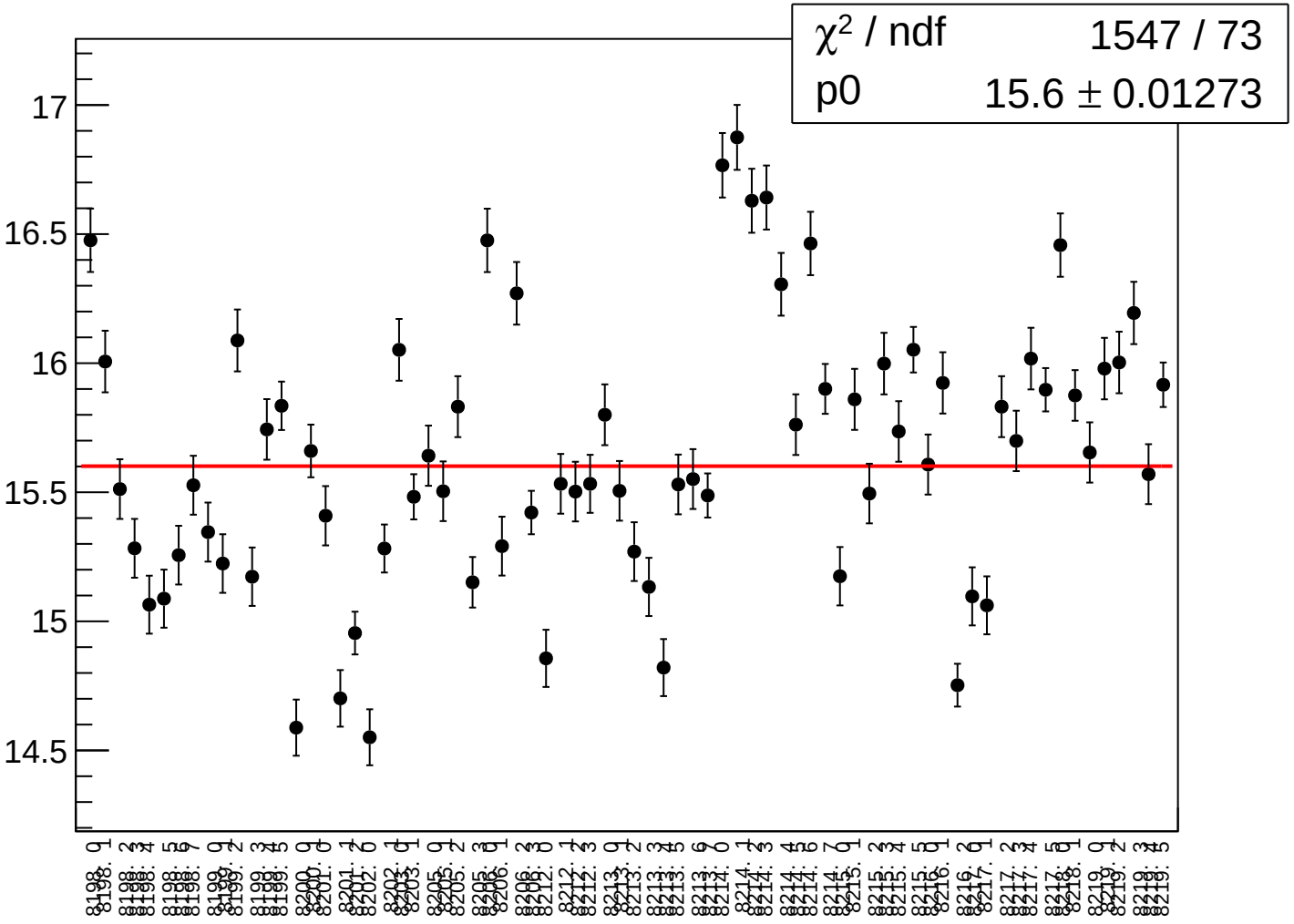

diff_bpm1i06Y_rms vs run
χ² / ndf 697.3 / 73
p0 1975 ± 1.611
2150
2100
2050
2000
1950
1900
1850
1800
1750

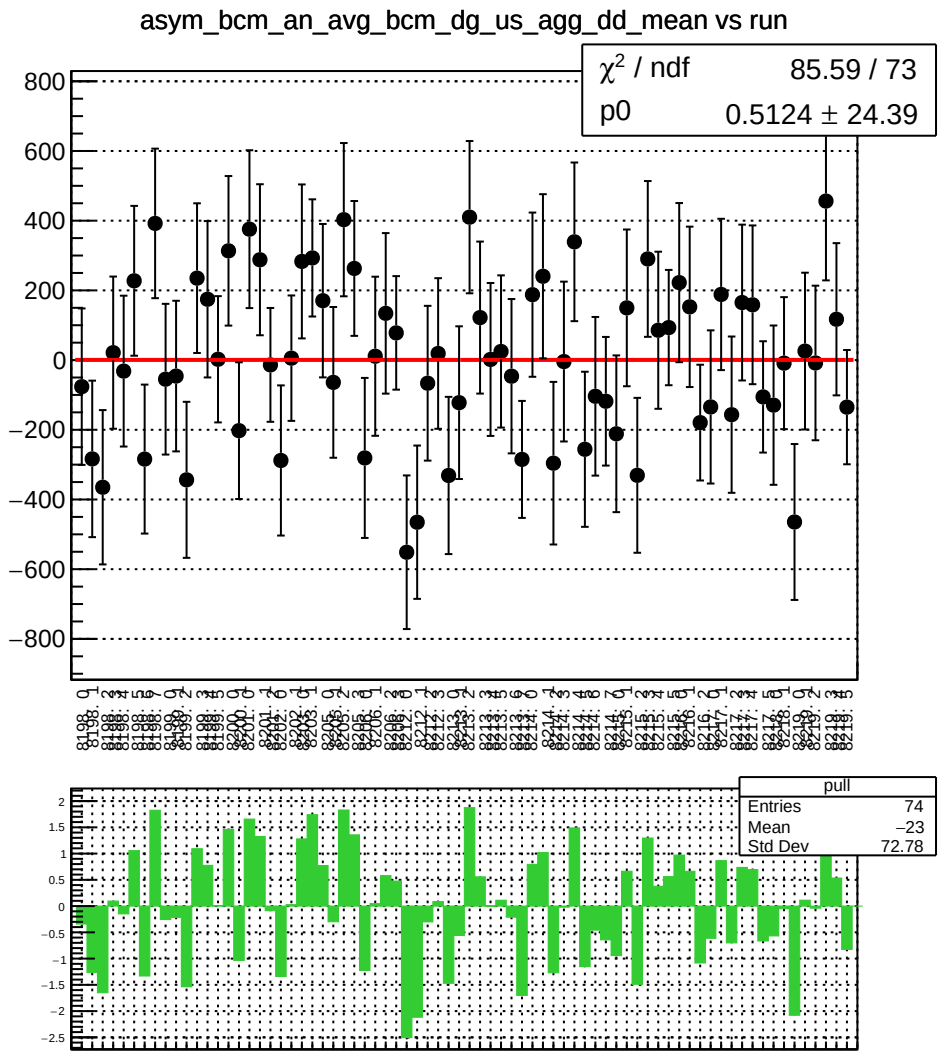

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.06 / 73
p0 −146.5 ± 212.2
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 471.7
Std Dev 429
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 74
Mean −0.005602
Std Dev 0.5702
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

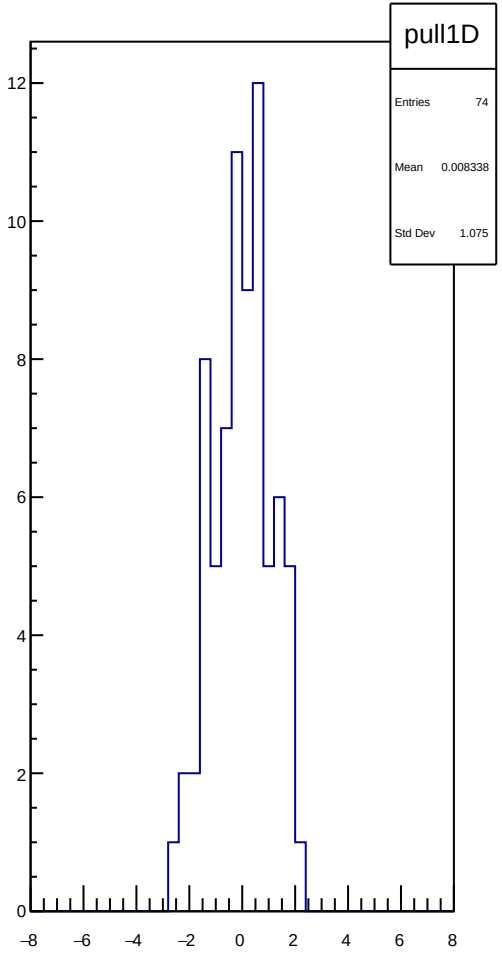

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4371 / 73
p0 183.7 ± 0.15
210
200
190
180
170
160

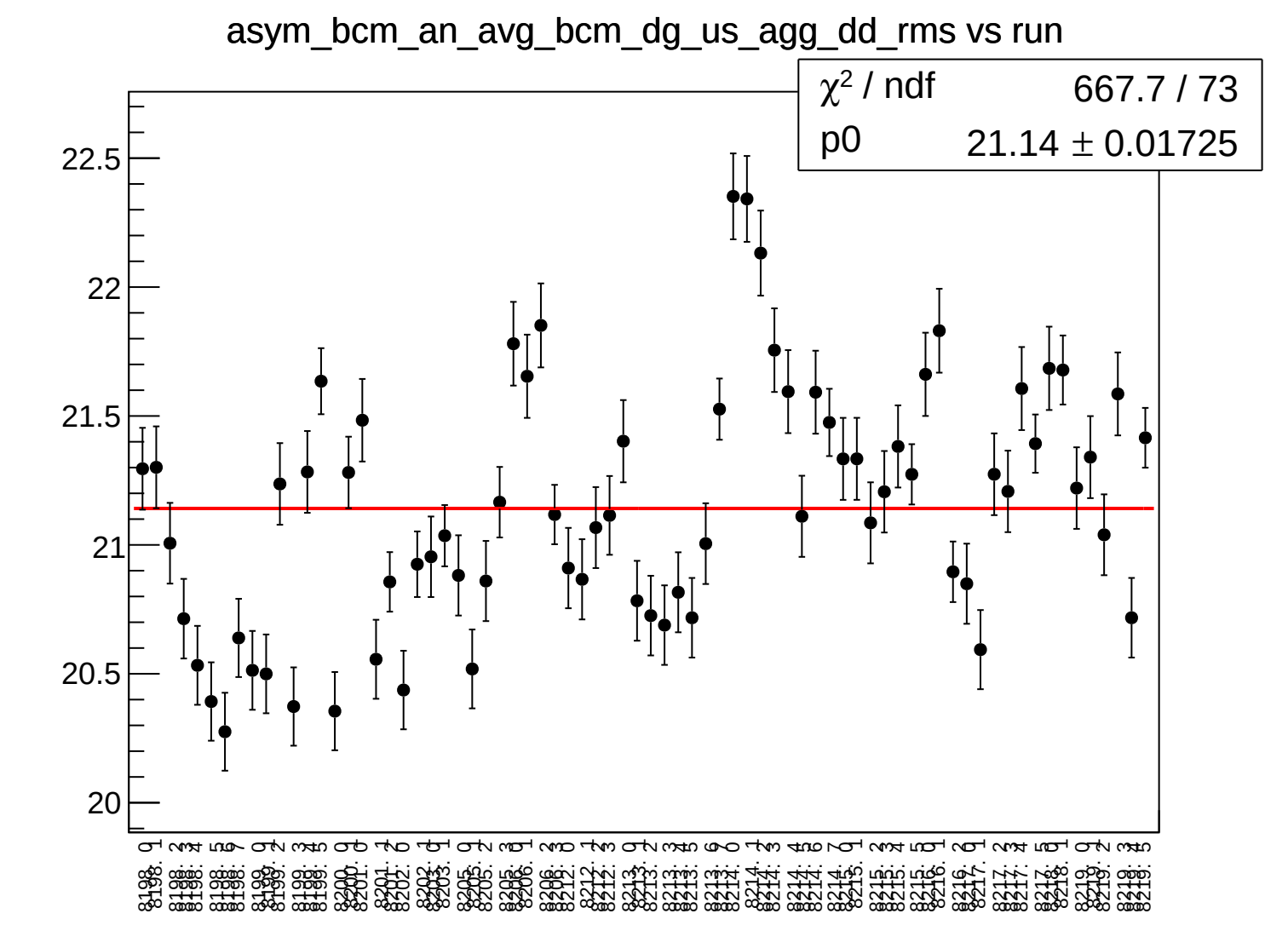

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 65.49 / 73
p0 −24.36 ± 18.01
pull
Entries 74
Mean −104.1
Std Dev 126.8

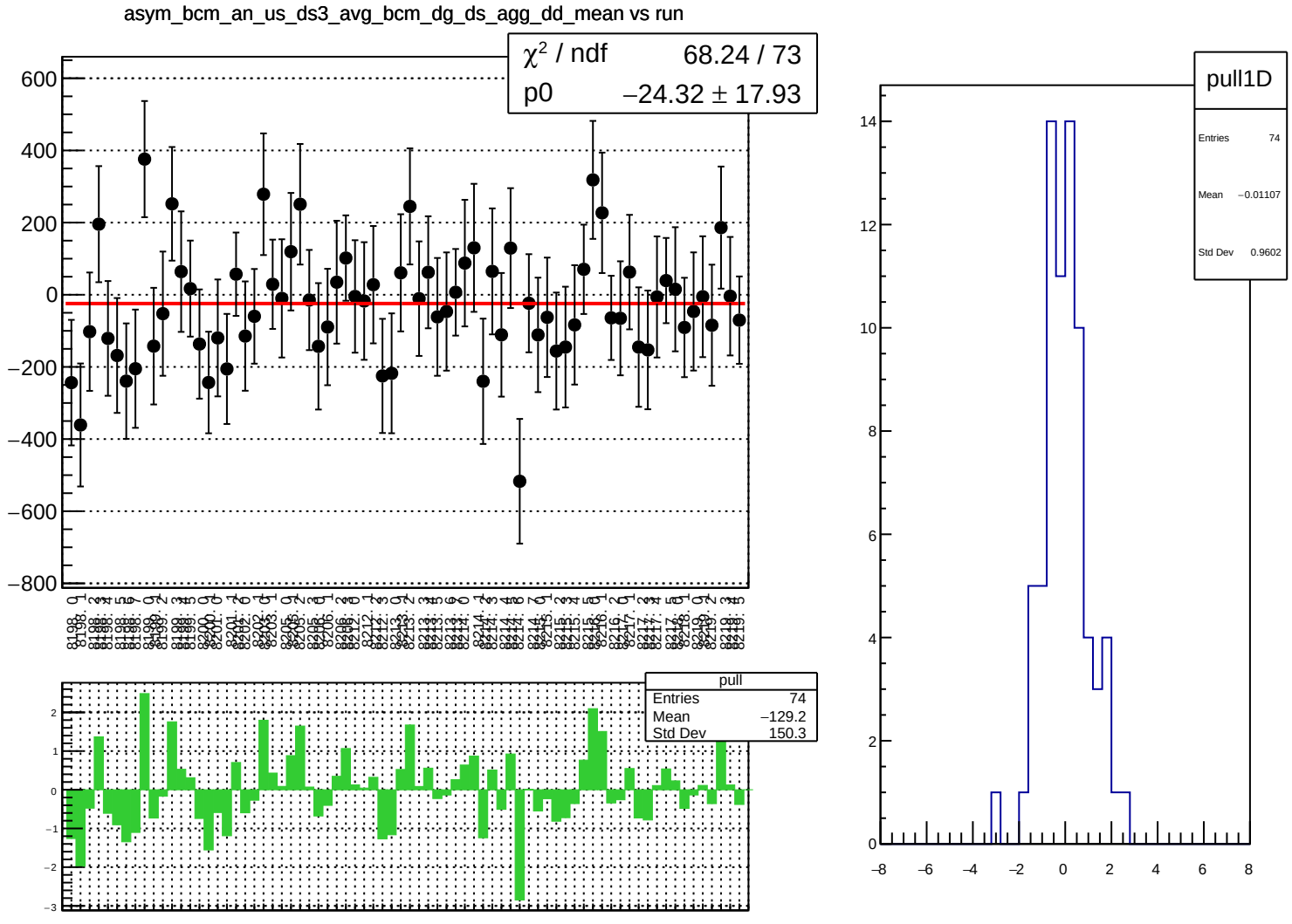

pull1D
Entries 74
Mean −0.01422
Std Dev 0.9406

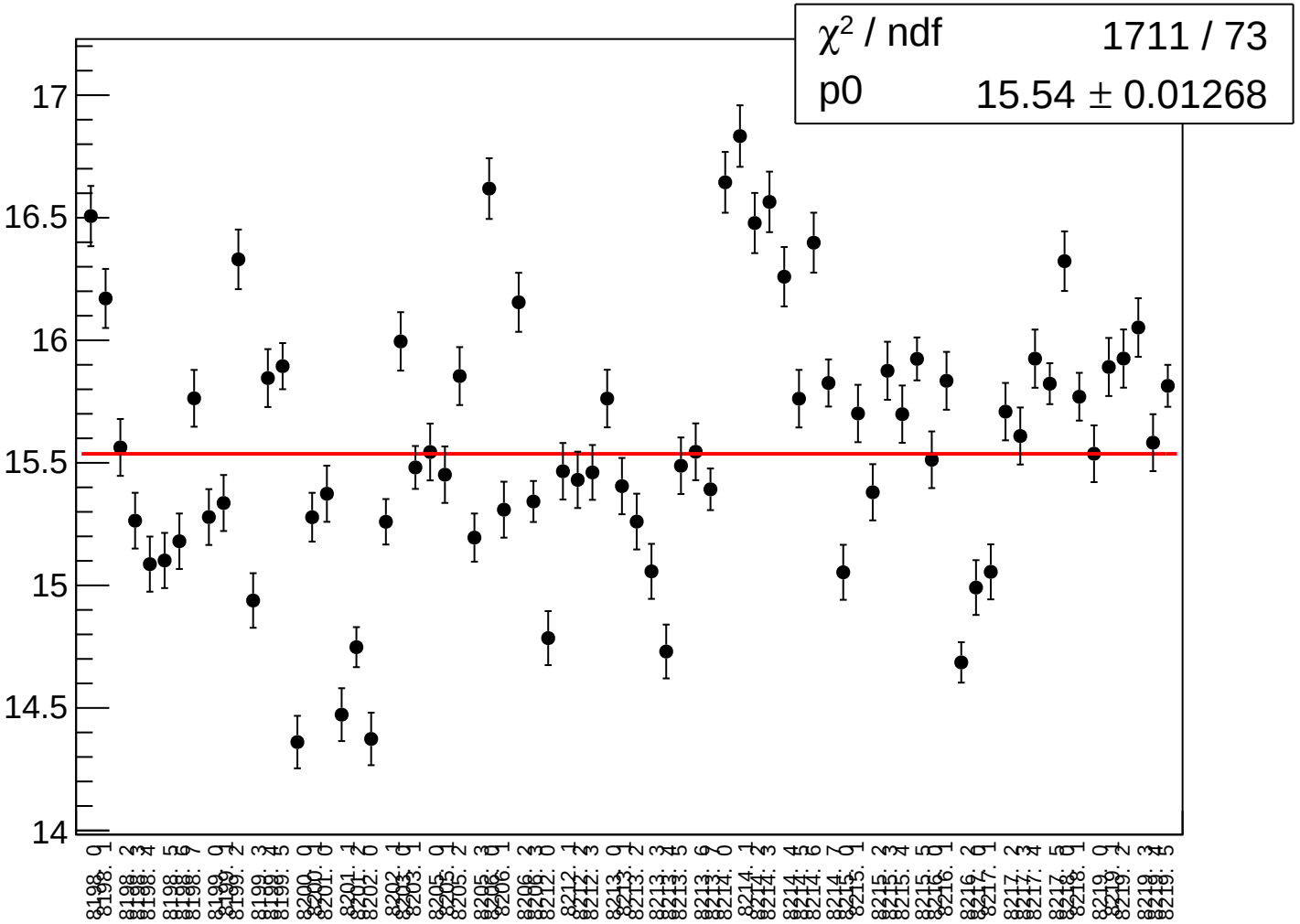

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1547 / 73
p0 15.6 ± 0.01273
17
16.5
16
15.5
15
14.5

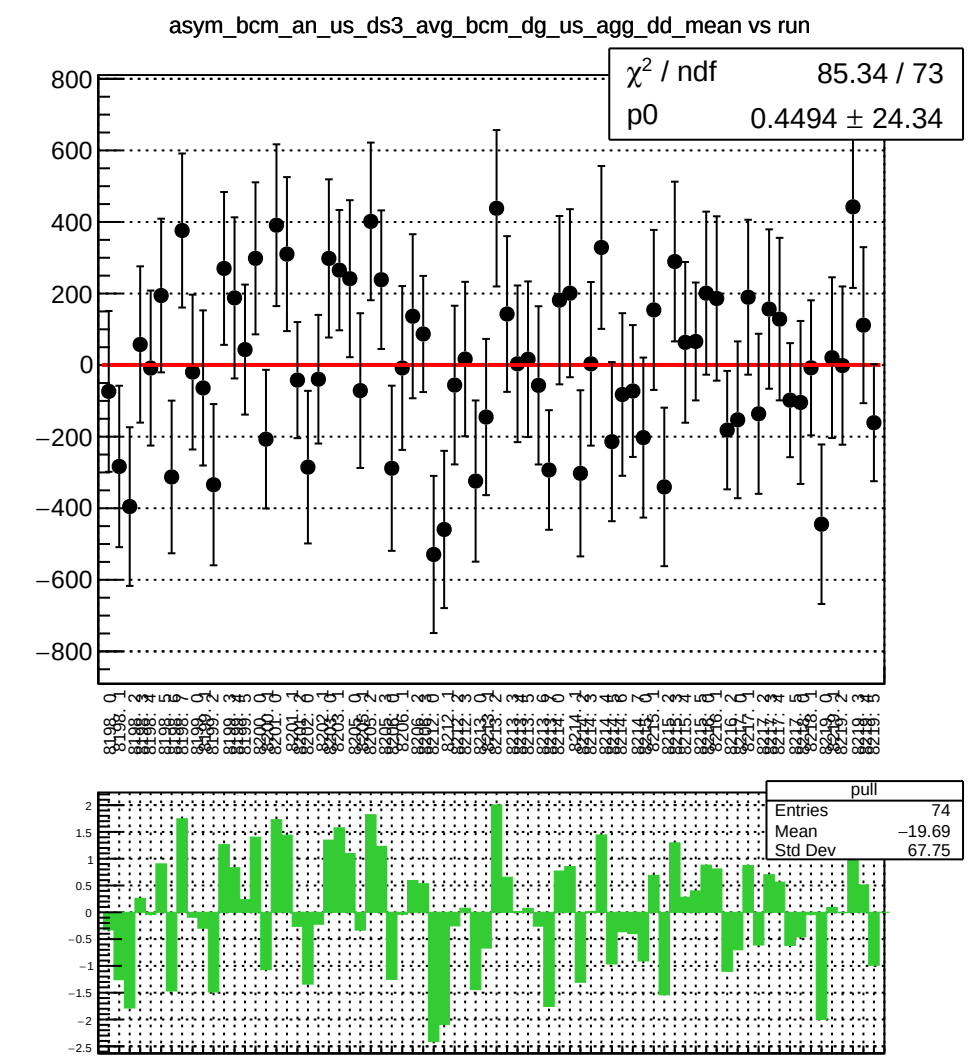

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 85.59 / 73
p0 0.5124 ± 24.39
pull
Entries 74
Mean −23
Std Dev 72.78

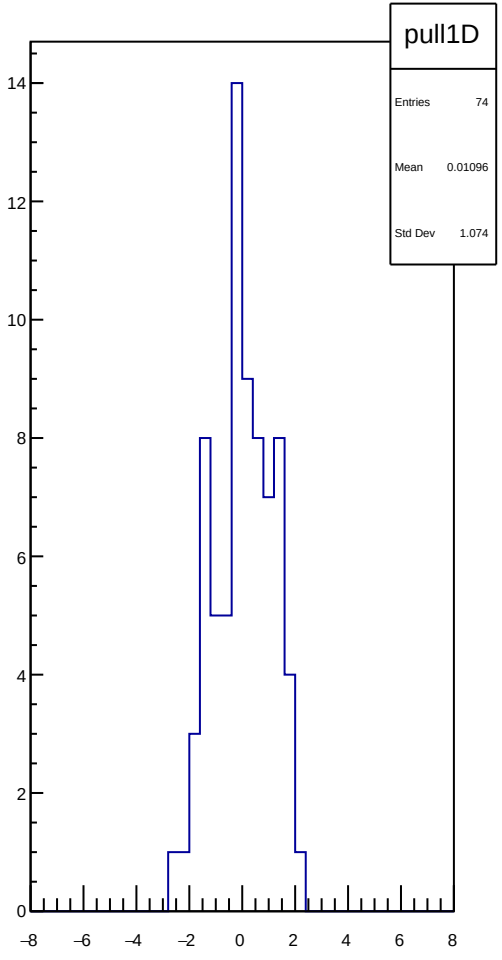

pull1D
Entries 74
Mean 0.008338
Std Dev 1.075

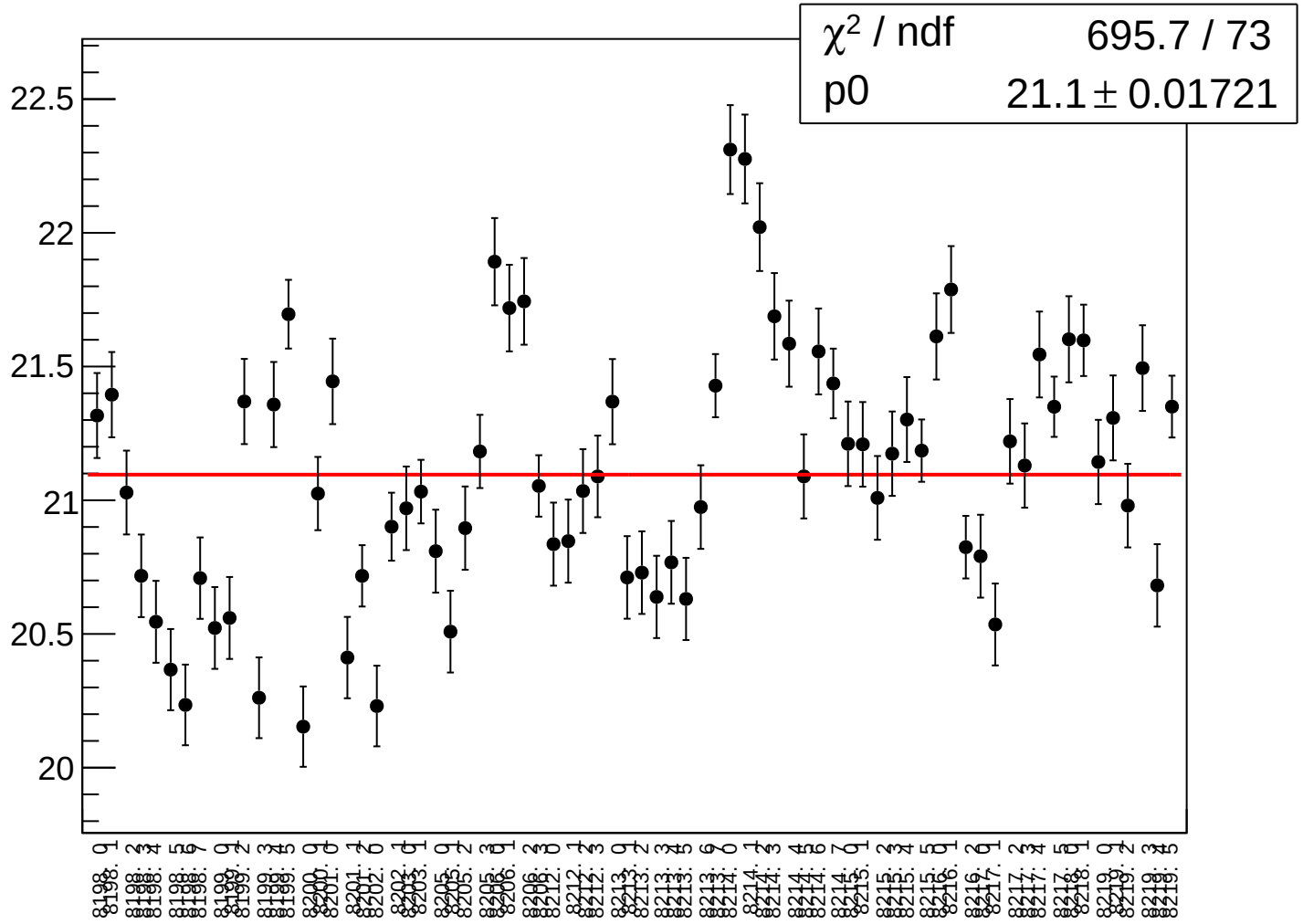

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 667.7 / 73
p0 21.14 ± 0.01725
22.5
22
21.5
21
20.5
20

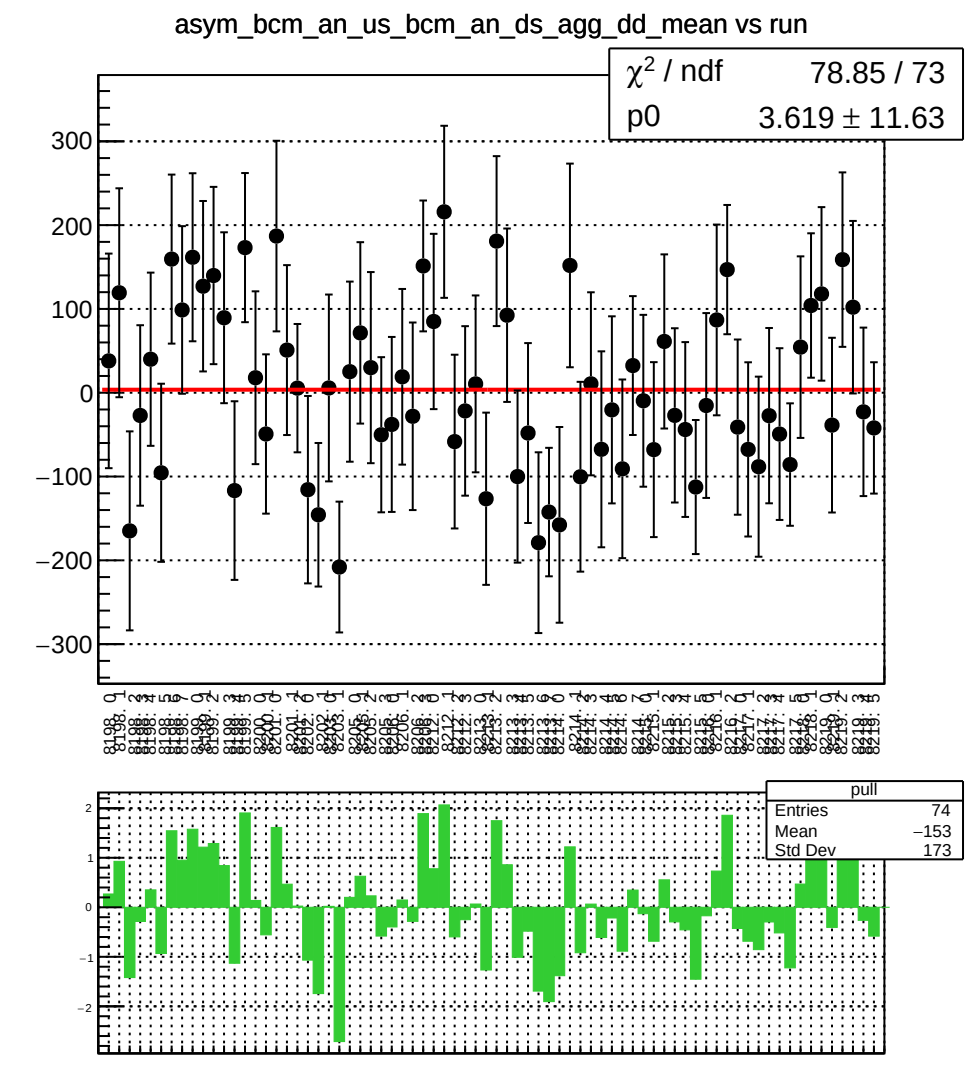

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 68.24 / 73
p0 −24.32 ± 17.93
pull
Entries 74
Mean −129.2
Std Dev 150.3
pull1D
Entries 74
Mean −0.01107
Std Dev 0.9602

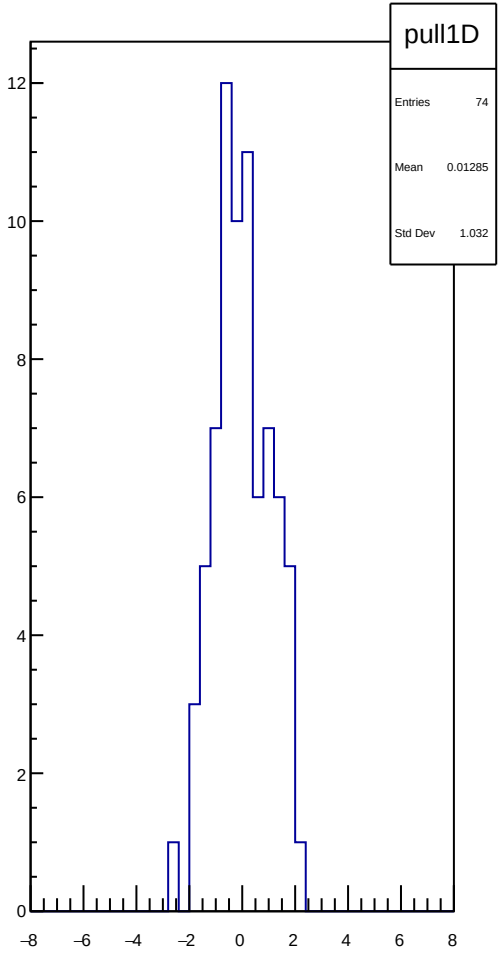

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1711 / 73
p0 15.54 ± 0.01268
17
16.5
16
15.5
15
14.5
14

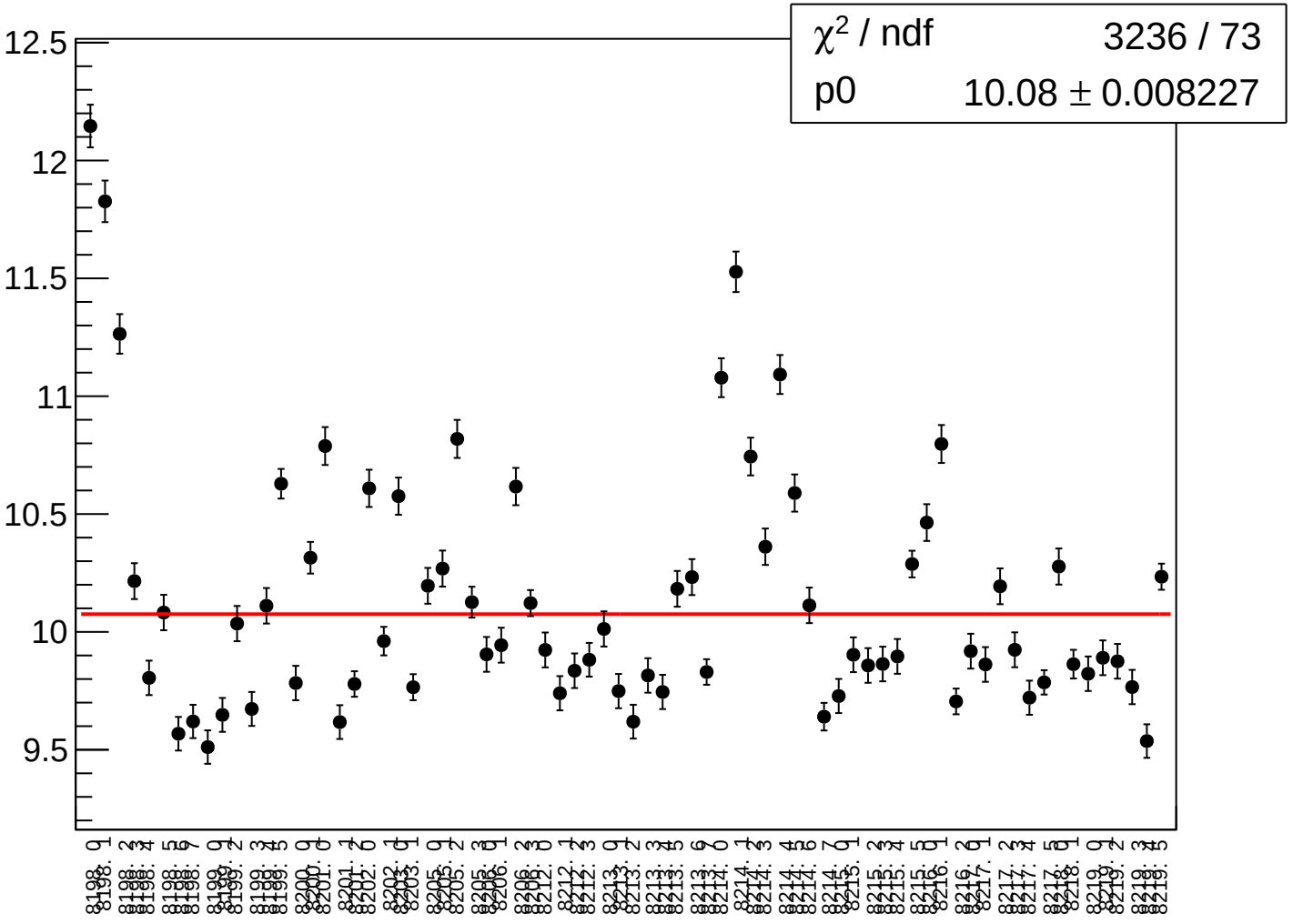

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 85.34 / 73
p0 0.4494 ± 24.34
pull
Entries 74
Mean −19.69
Std Dev 67.75

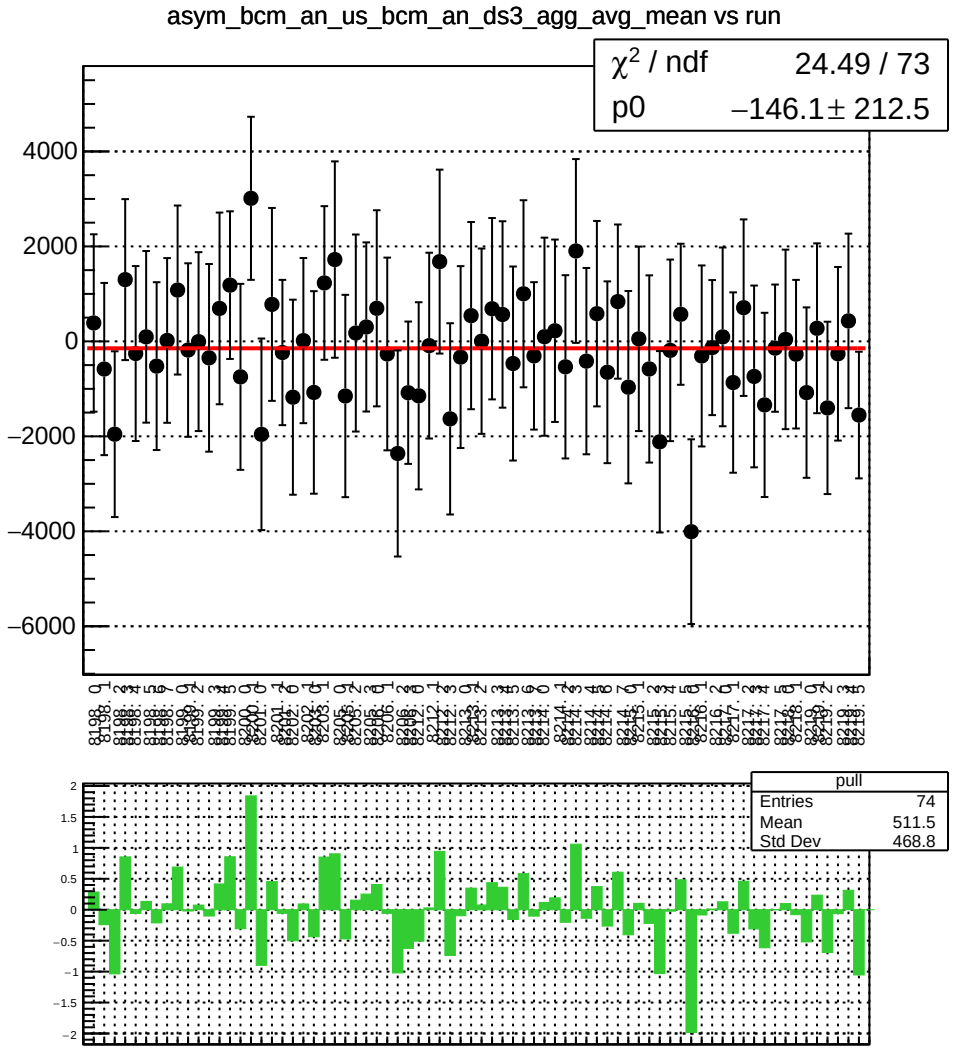

pull1D
Entries 74
Mean 0.01096
Std Dev 1.074

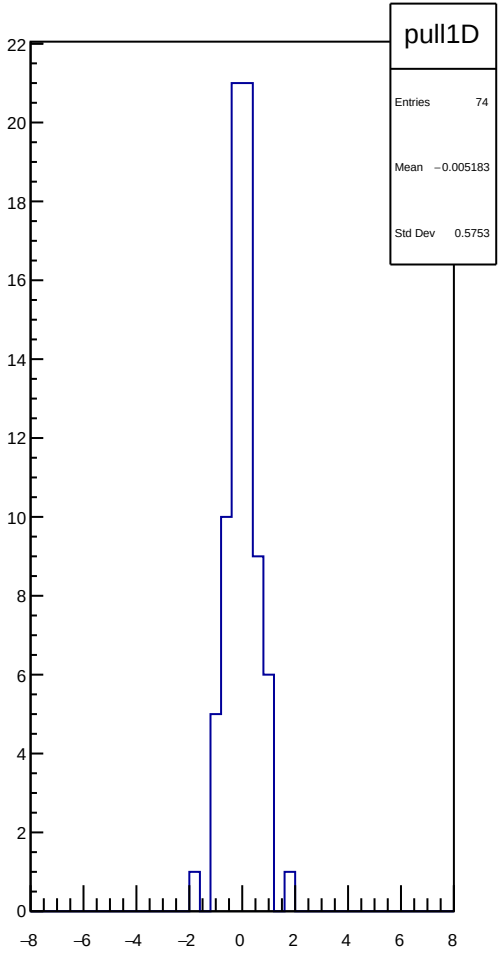

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 695.7 / 73
p0 21.1 ± 0.01721
22.5
22
21.5
21
20.5
20

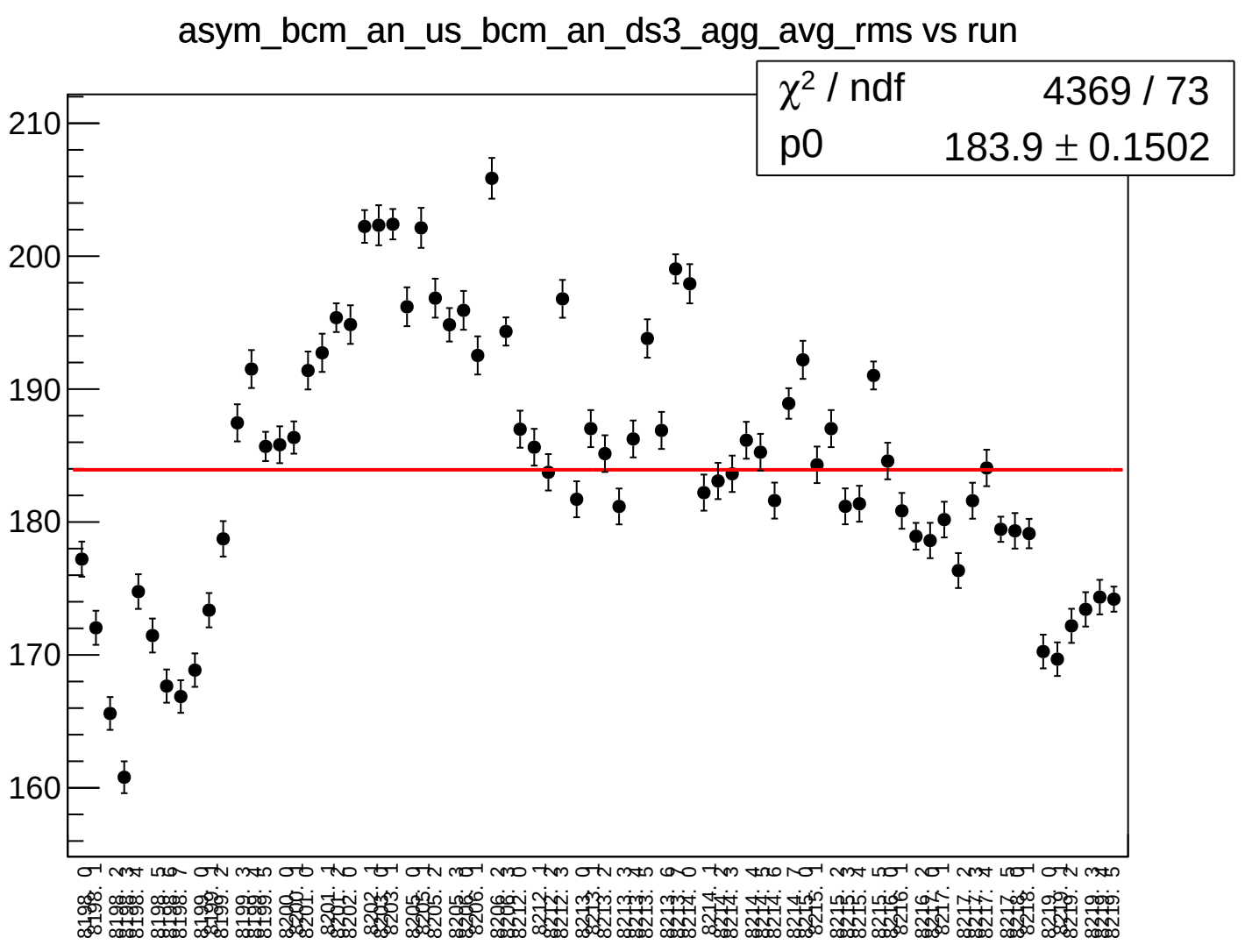

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.85 / 73
p0 3.619 ± 11.63
pull
Entries 74
Mean −153
Std Dev 173

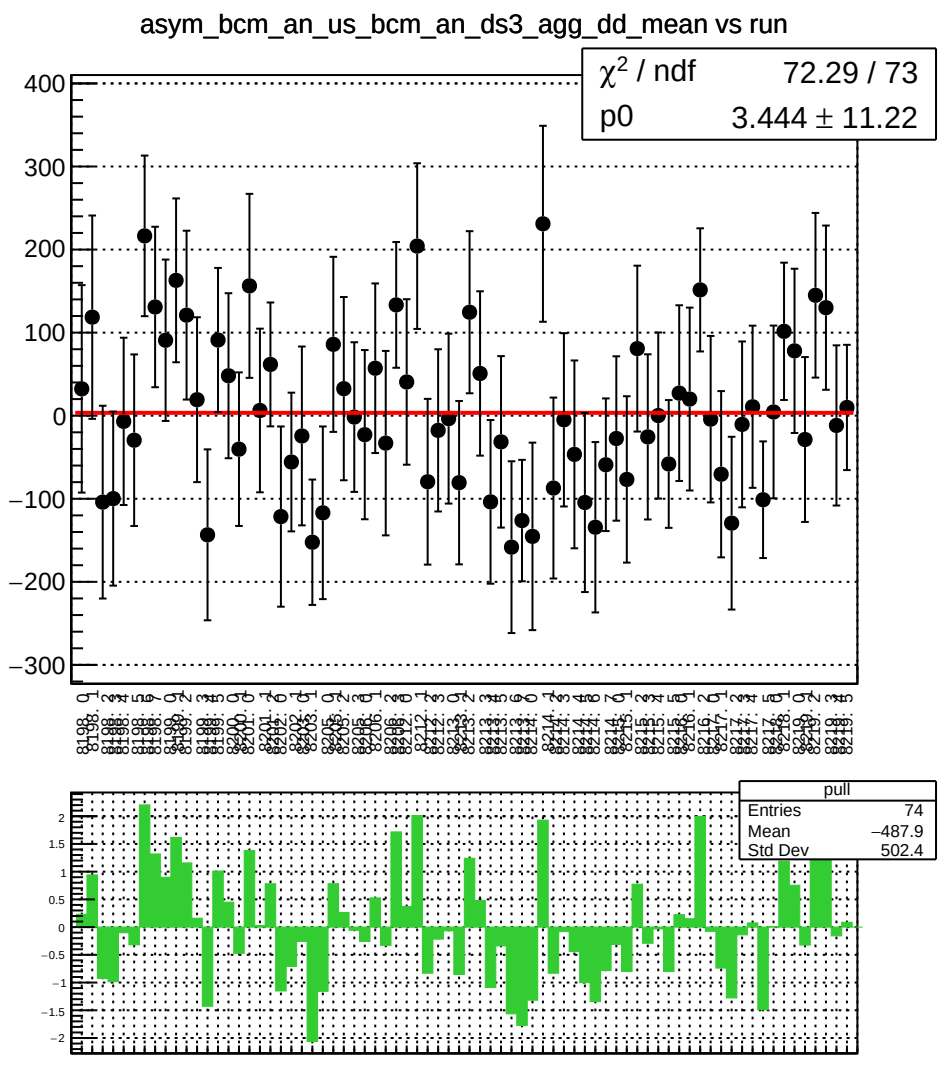

pull1D
Entries 74
Mean 0.01285
Std Dev 1.032

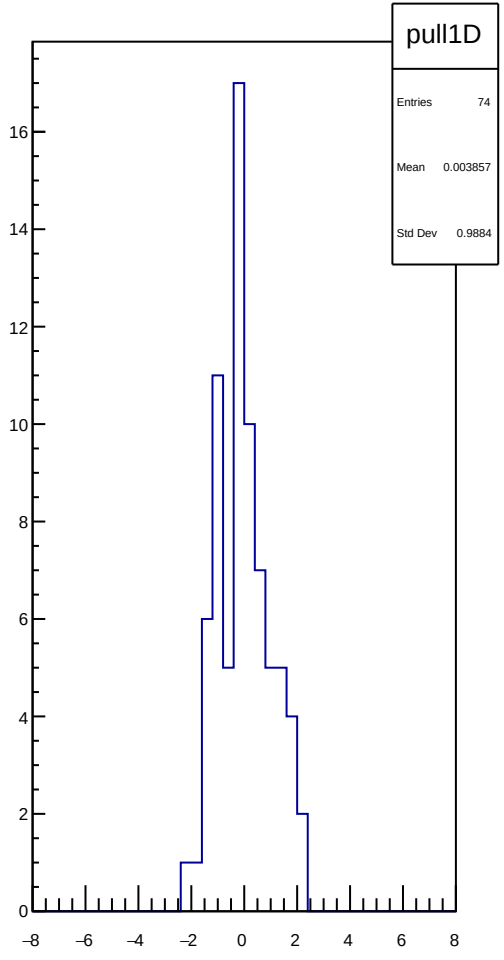

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 3236 / 73
p0 10.08 ± 0.008227
12.5
12
11.5
11
10.5
10
9.5

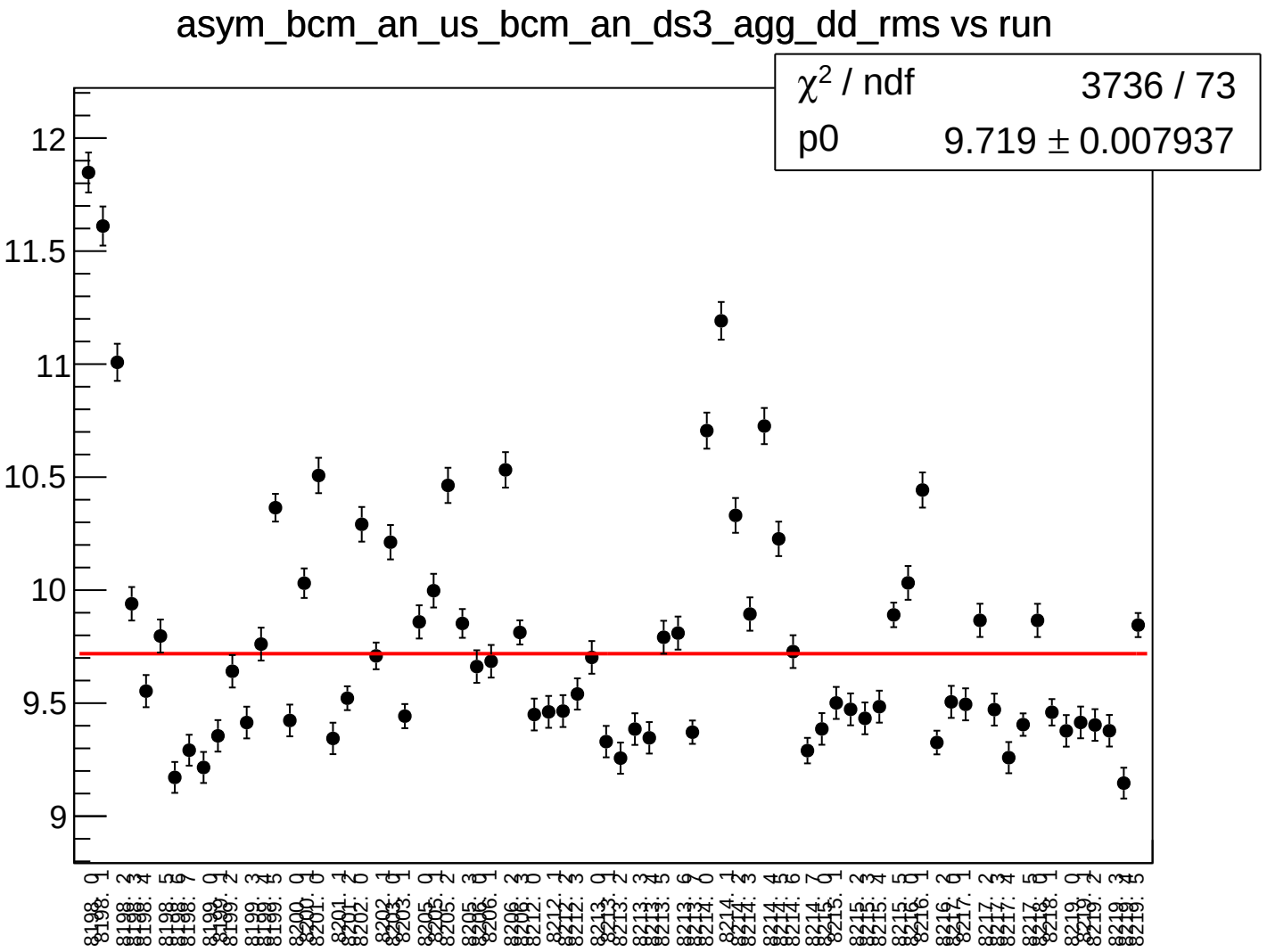

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 24.49 / 73
p0 −146.1± 212.5
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 511.5
Std Dev 468.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

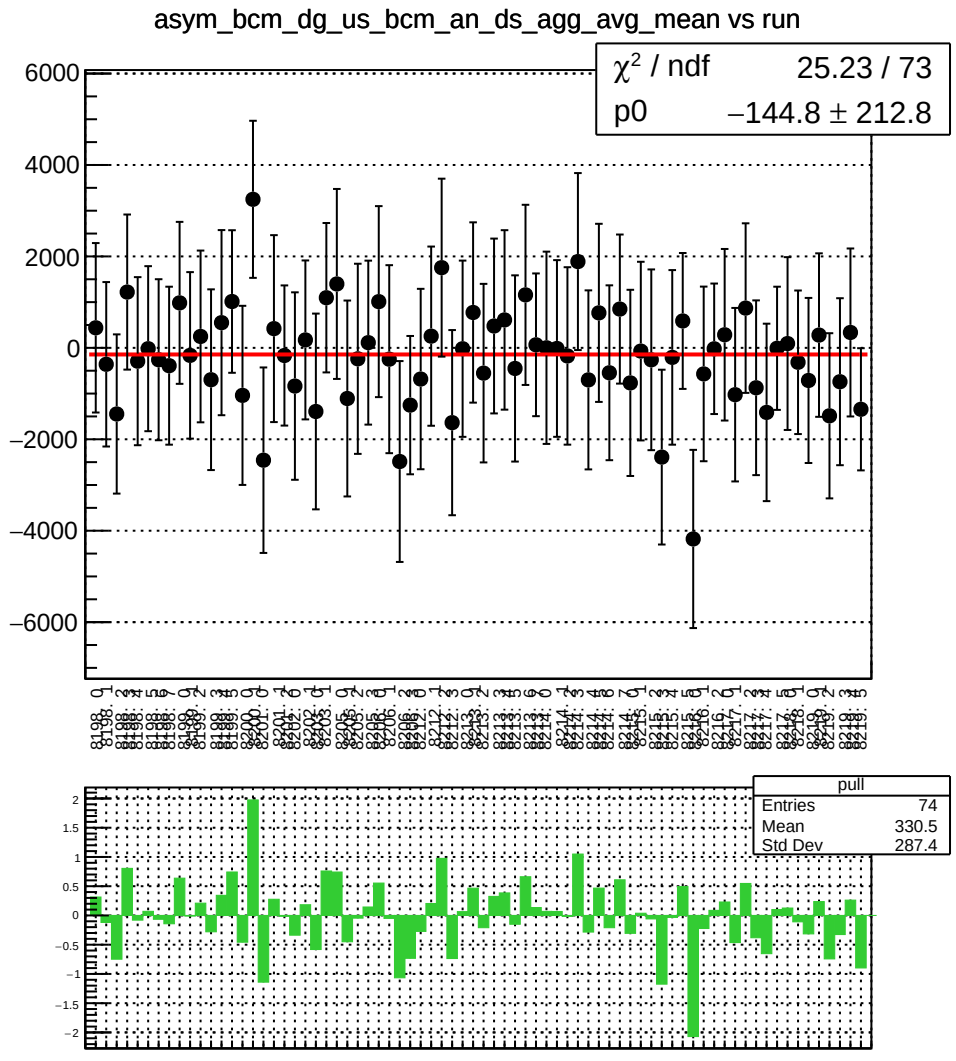

pull1D
Entries 74
Mean −0.005183
Std Dev 0.5753
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

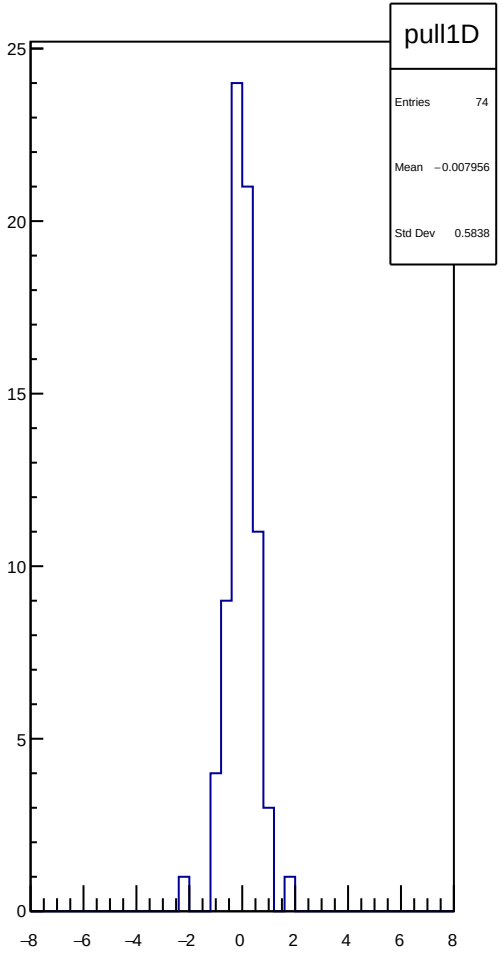

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 4369 / 73
p0 183.9 ± 0.1502
210
200
190
180
170
160

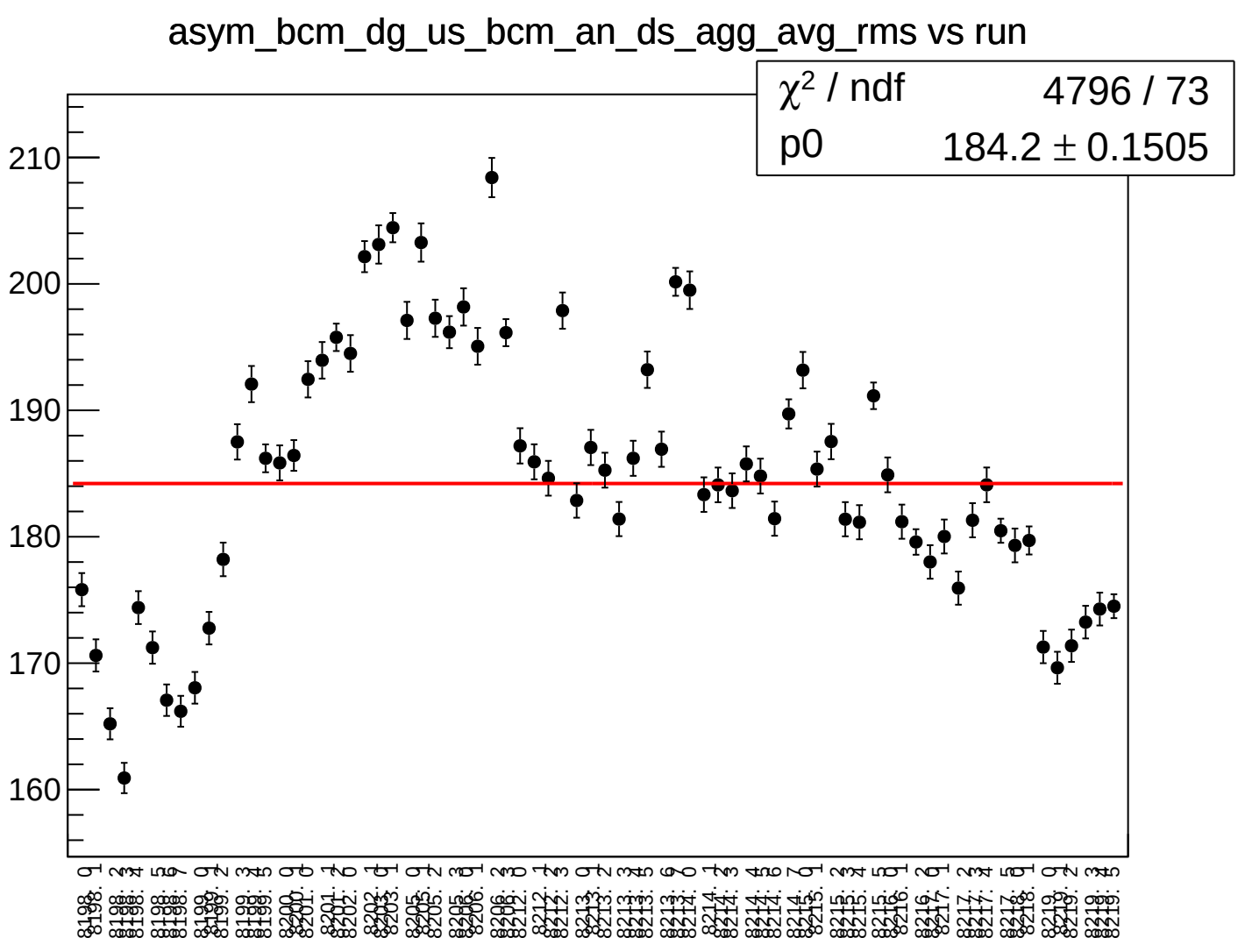

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 72.29 / 73
p0 3.444 ± 11.22
pull
Entries 74
Mean −487.9
Std Dev 502.4

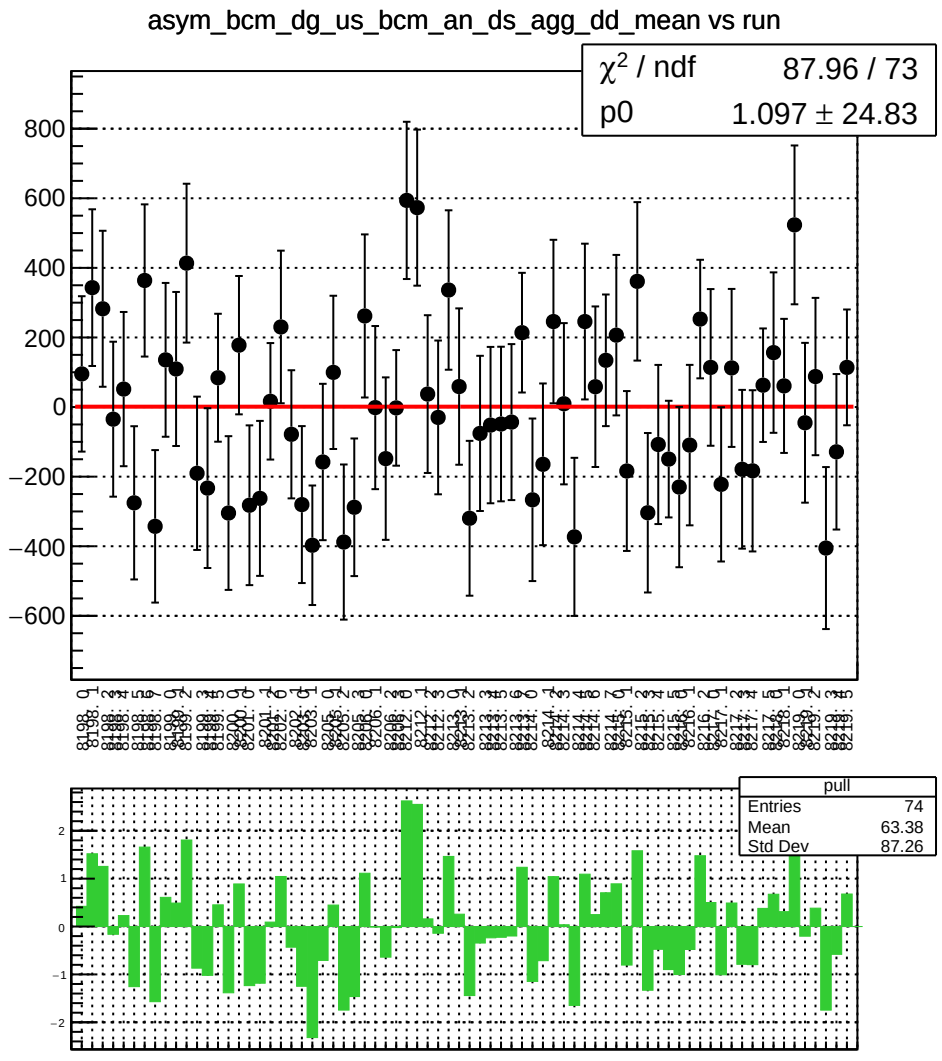

pull1D
Entries 74
Mean 0.003857
Std Dev 0.9884

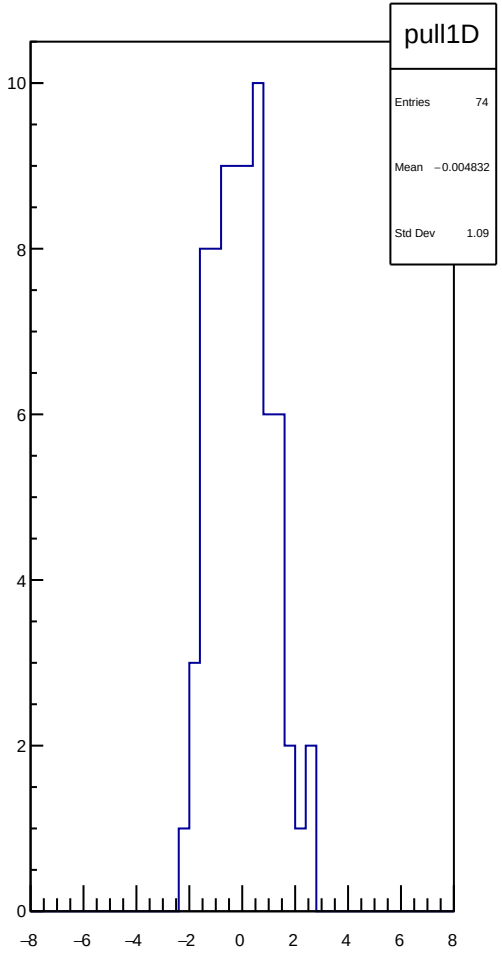

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 3736 / 73
p0 9.719 ± 0.007937
12
11.5
11
10.5
10
9.5
9

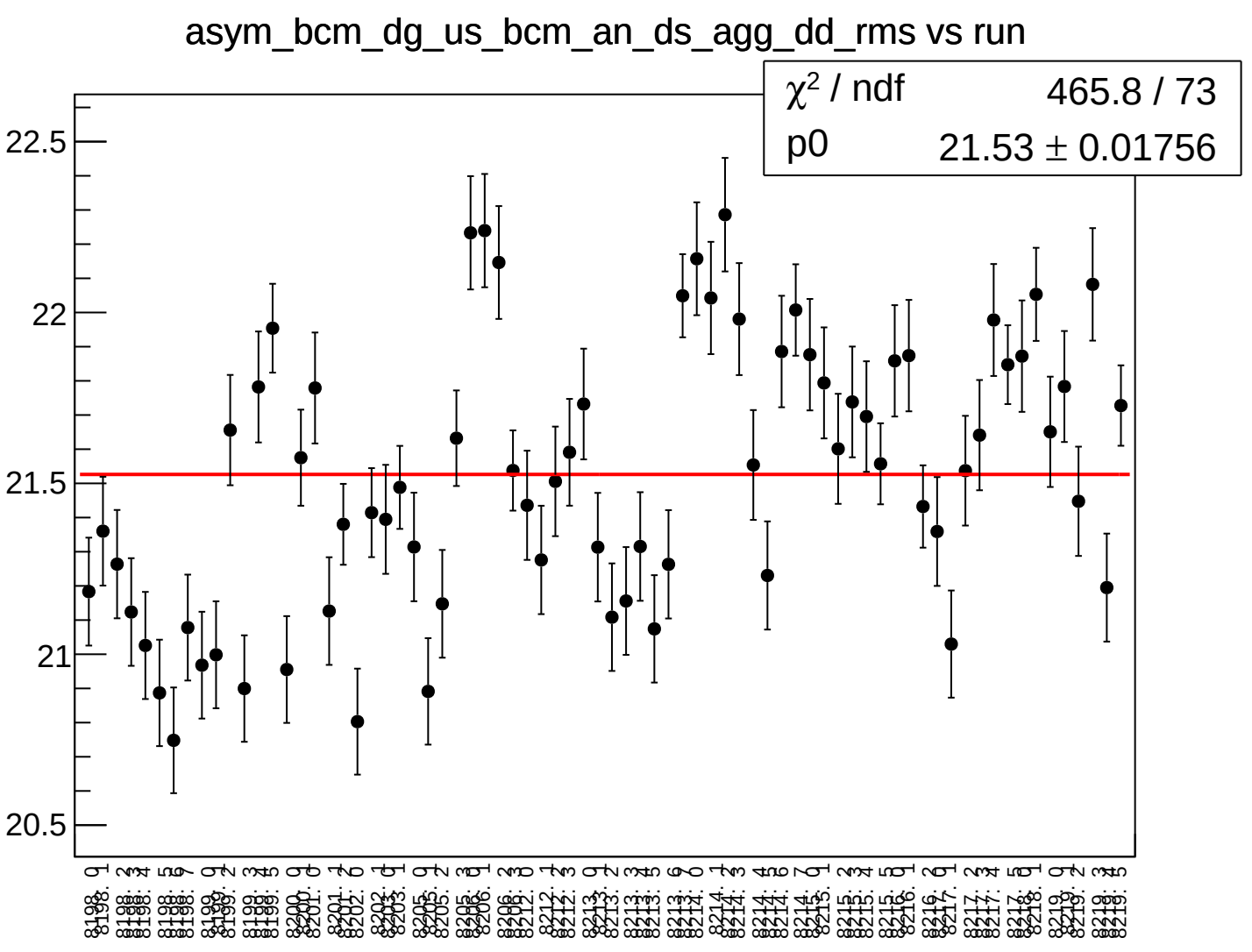

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.23 / 73
p0 −144.8 ± 212.8
pull
Entries 74
Mean 330.5
Std Dev 287.4

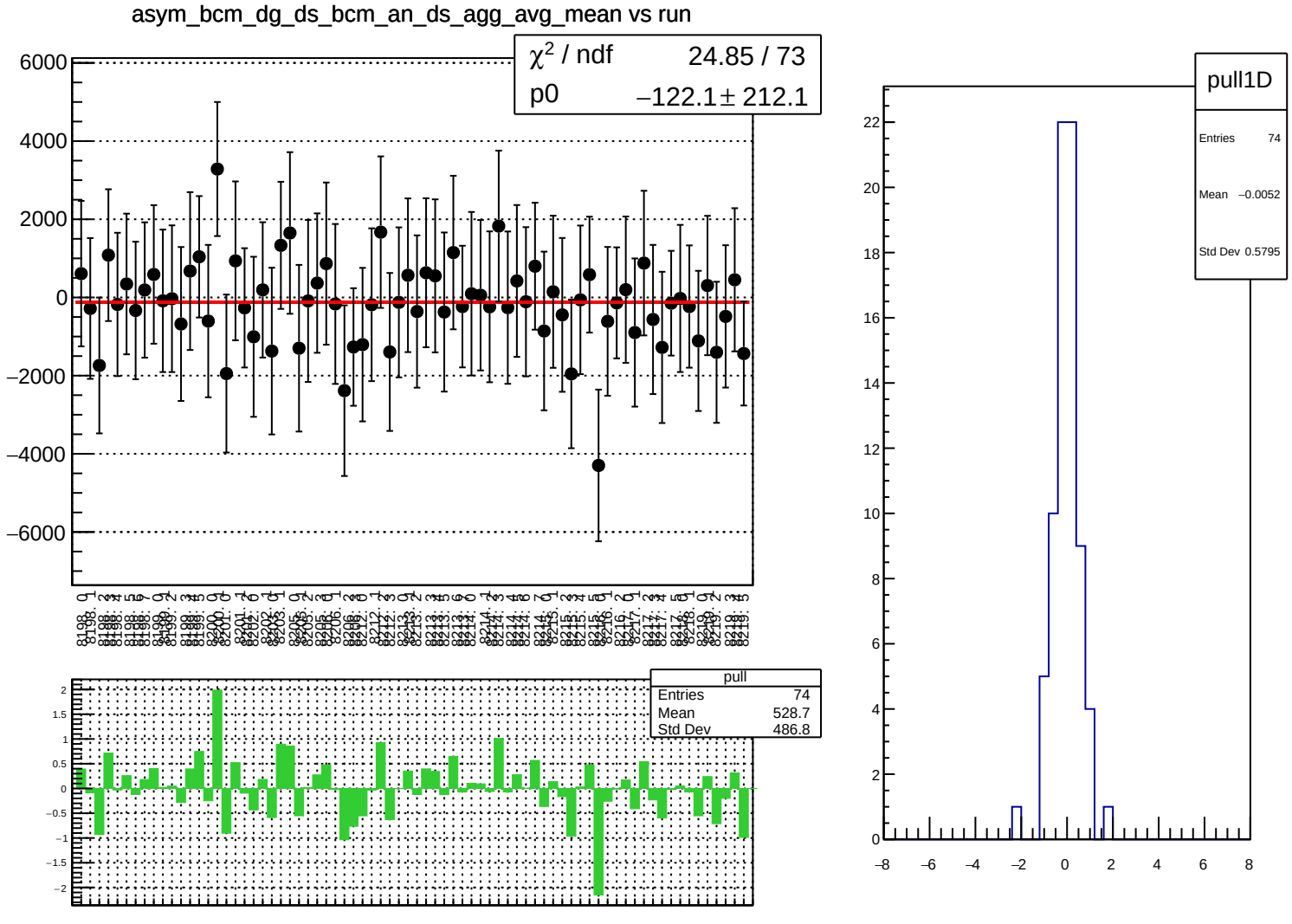

pull1D
Entries 74
Mean −0.007956
Std Dev 0.5838

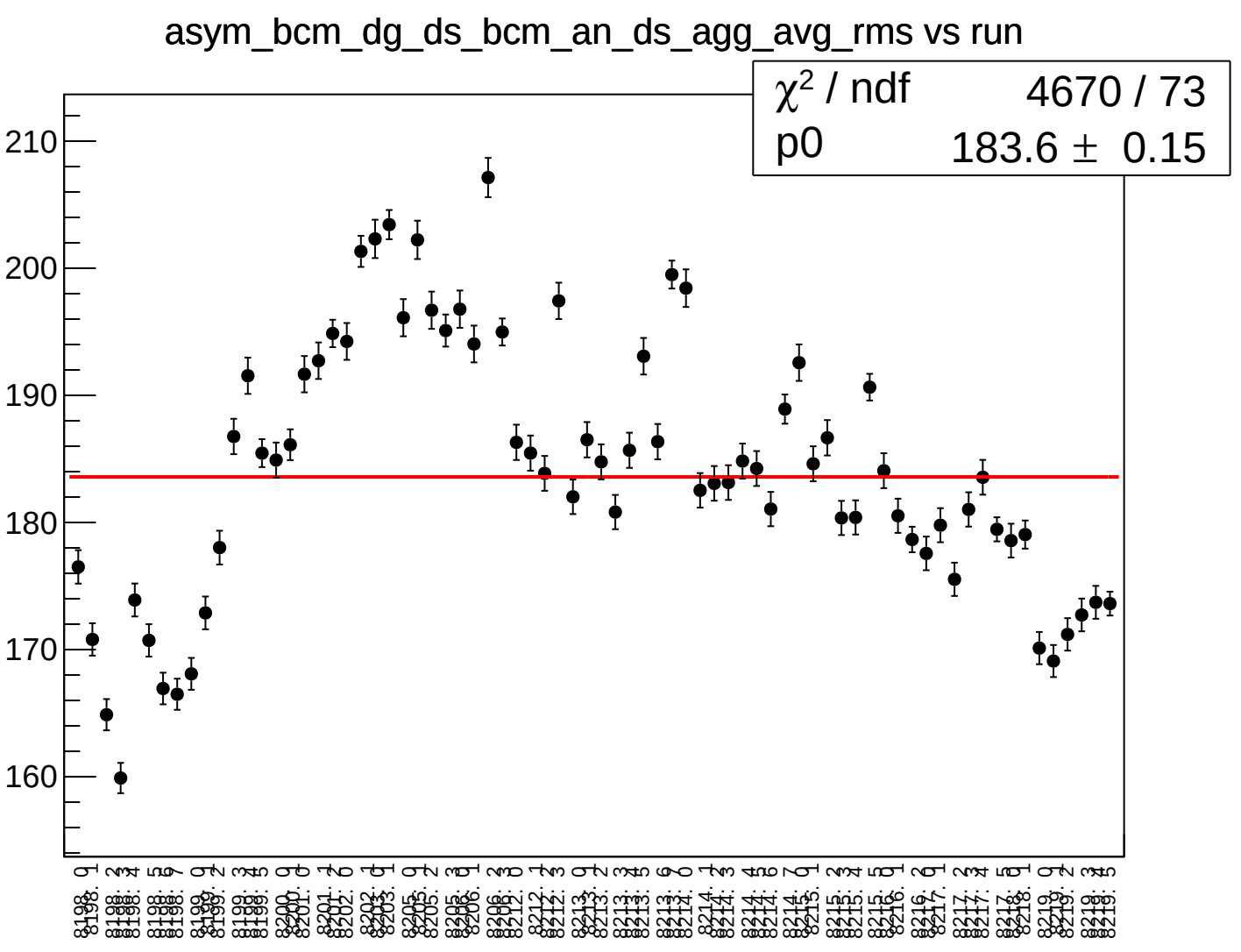

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4796 / 73
p0 184.2 ± 0.1505
210
200
190
180
170
160

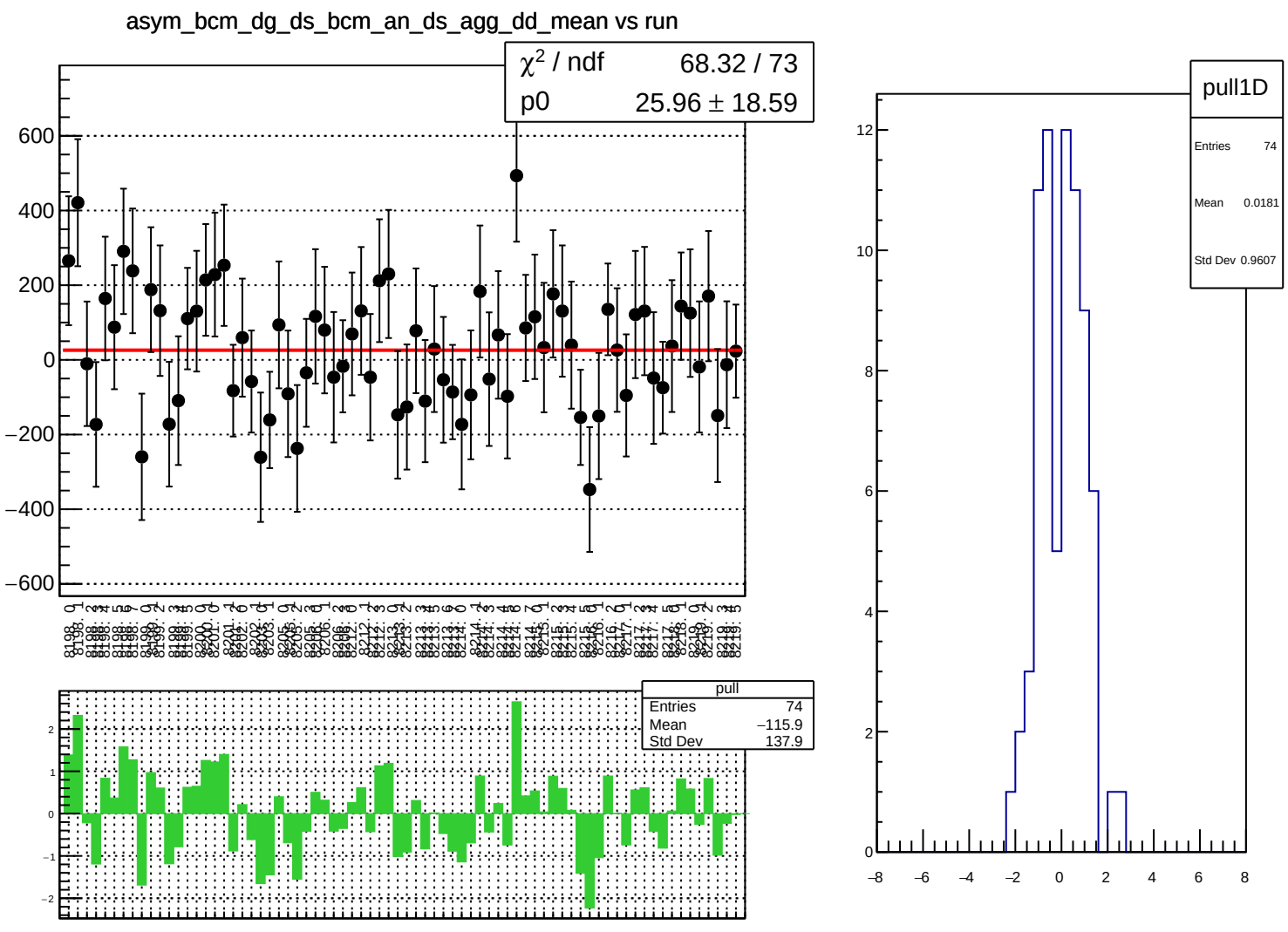

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 87.96 / 73
p0 1.097 ± 24.83
pull
Entries 74
Mean 63.38
Std Dev 87.26

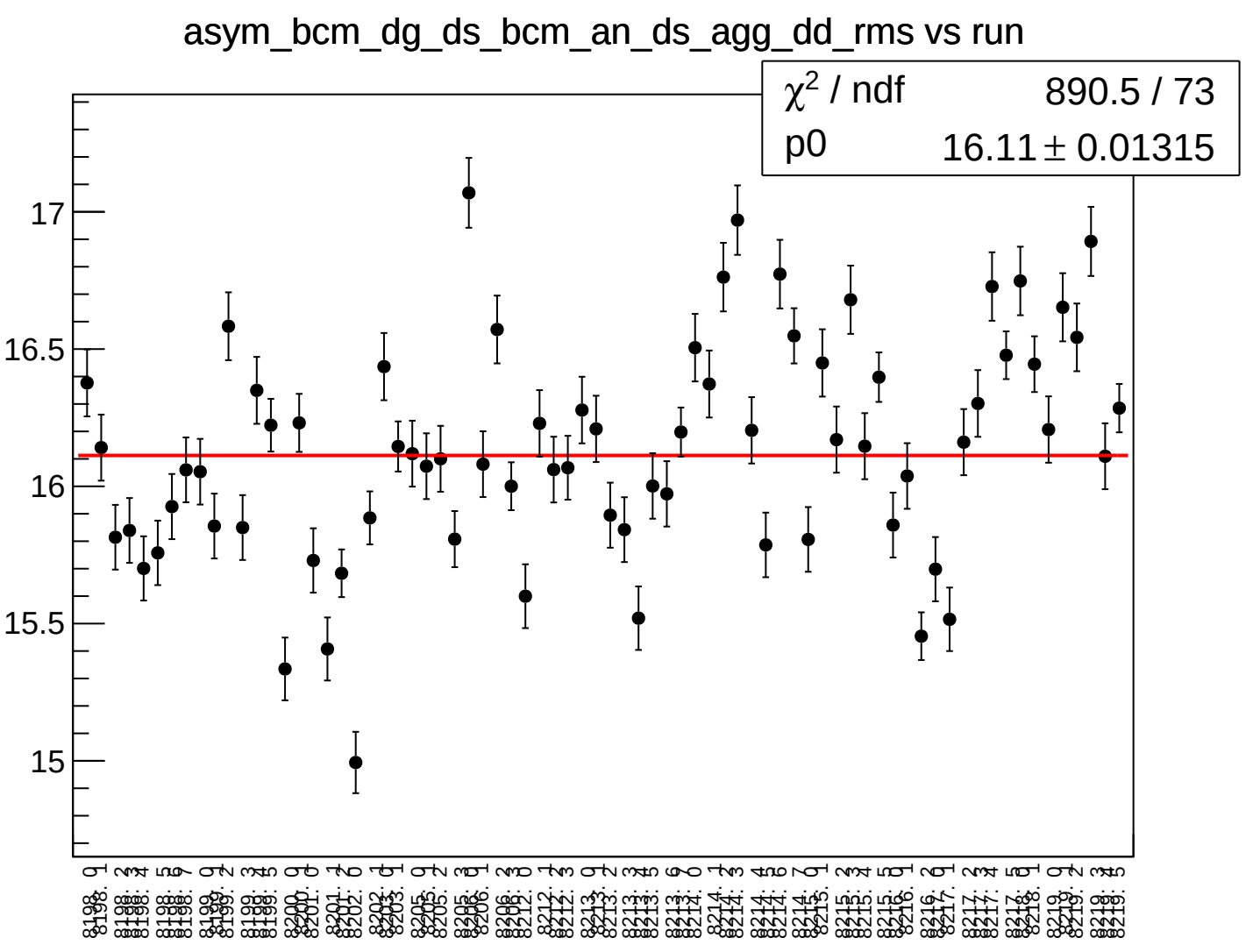

pull1D
Entries 74
Mean −0.004832
Std Dev 1.09

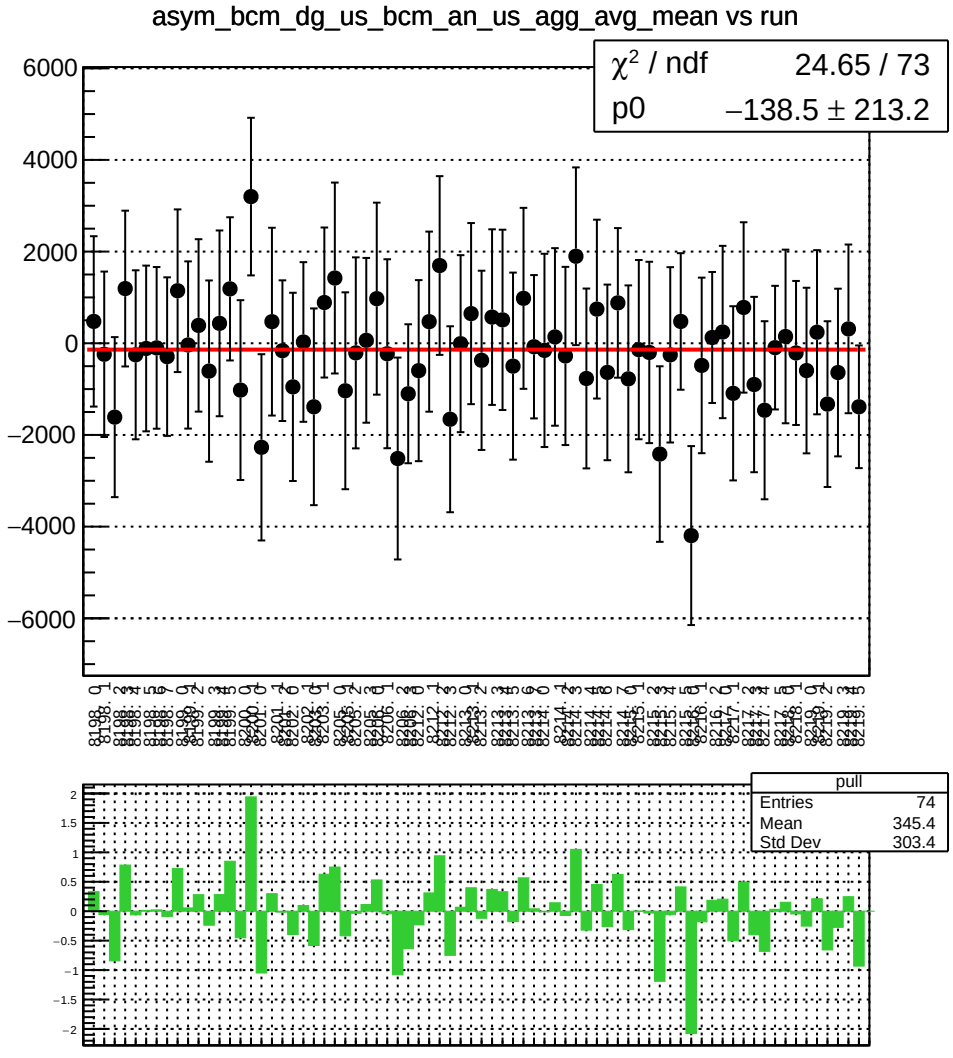

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 465.8 / 73
p0 21.53 ± 0.01756
22.5
22
21.5
21
20.5

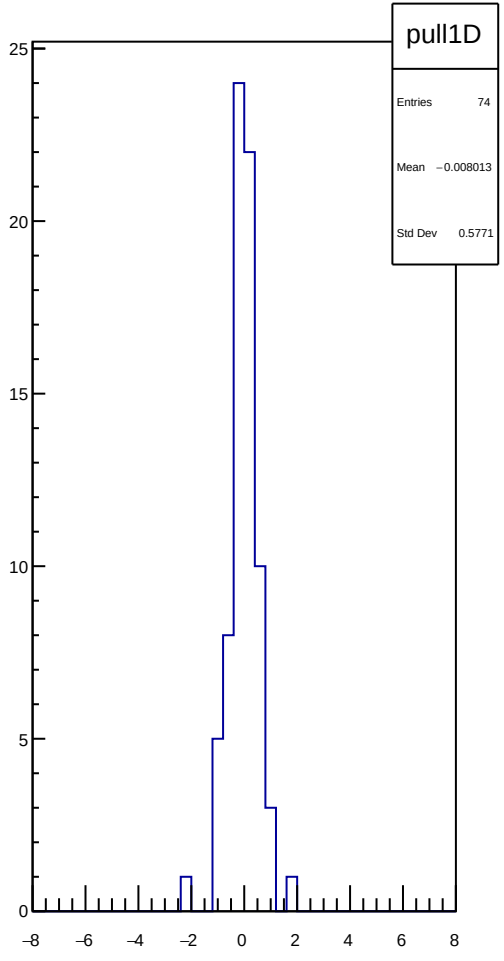

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 24.85 / 73
p0 −122.1 ± 212.1
pull
Entries 74
Mean 528.7
Std Dev 486.8
pull1D
Entries 74
Mean −0.0052
Std Dev 0.5795

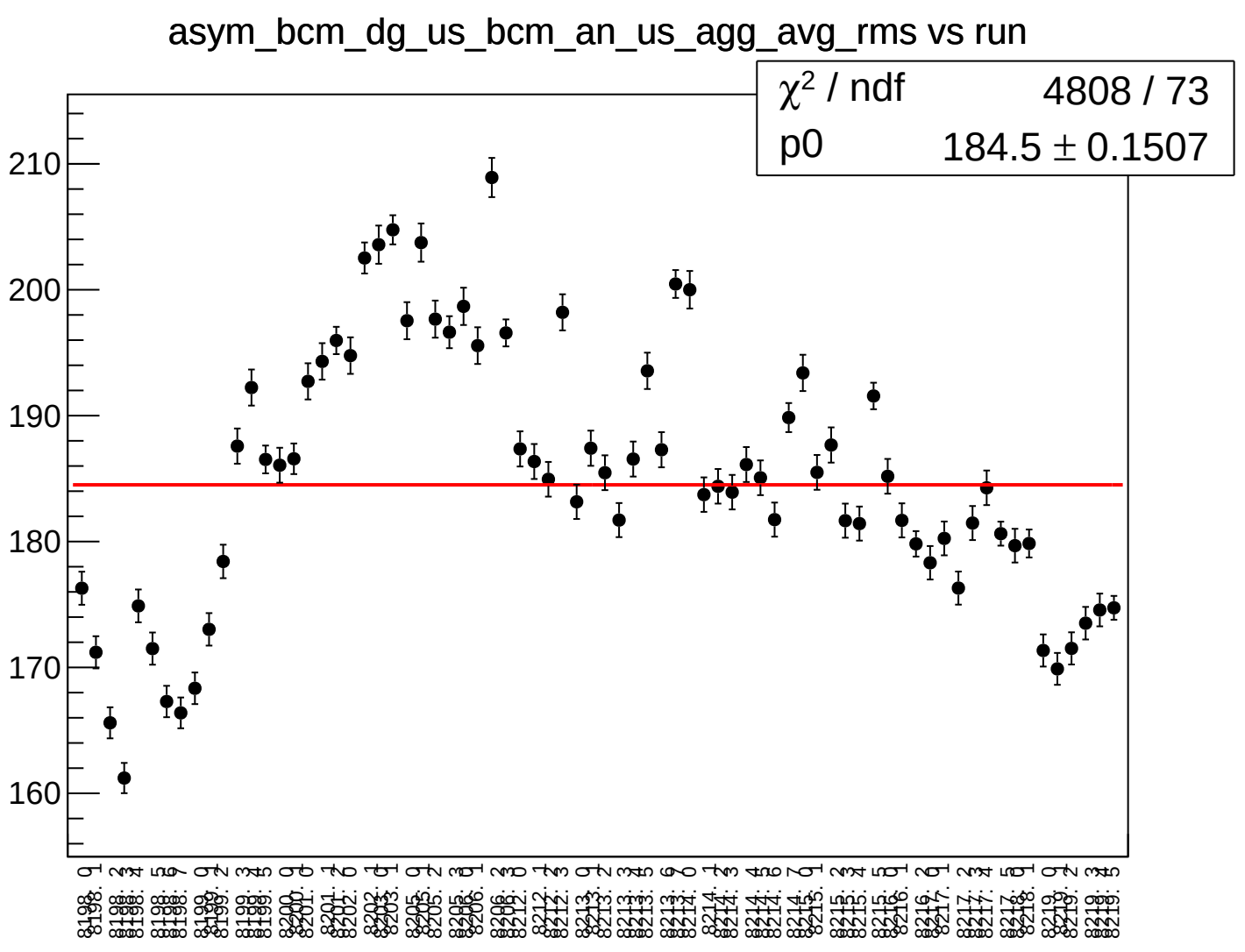

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4670 / 73
p0 183.6 ± 0.15
210
200
190
180
170
160

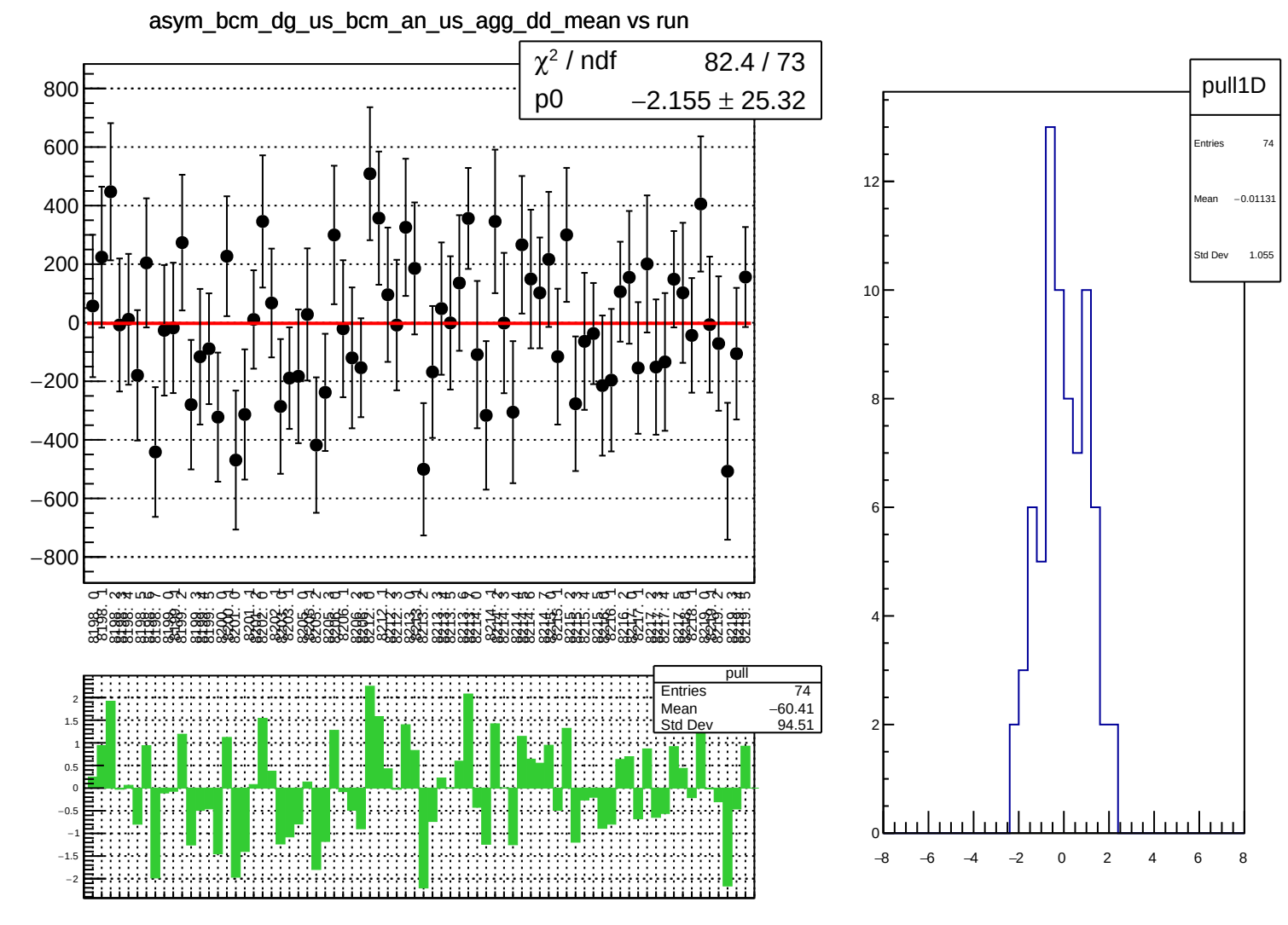

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 68.32 / 73
p0 25.96 ± 18.59
pull
Entries 74
Mean −115.9
Std Dev 137.9
pull1D
Entries 74
Mean 0.0181
Std Dev 0.9607

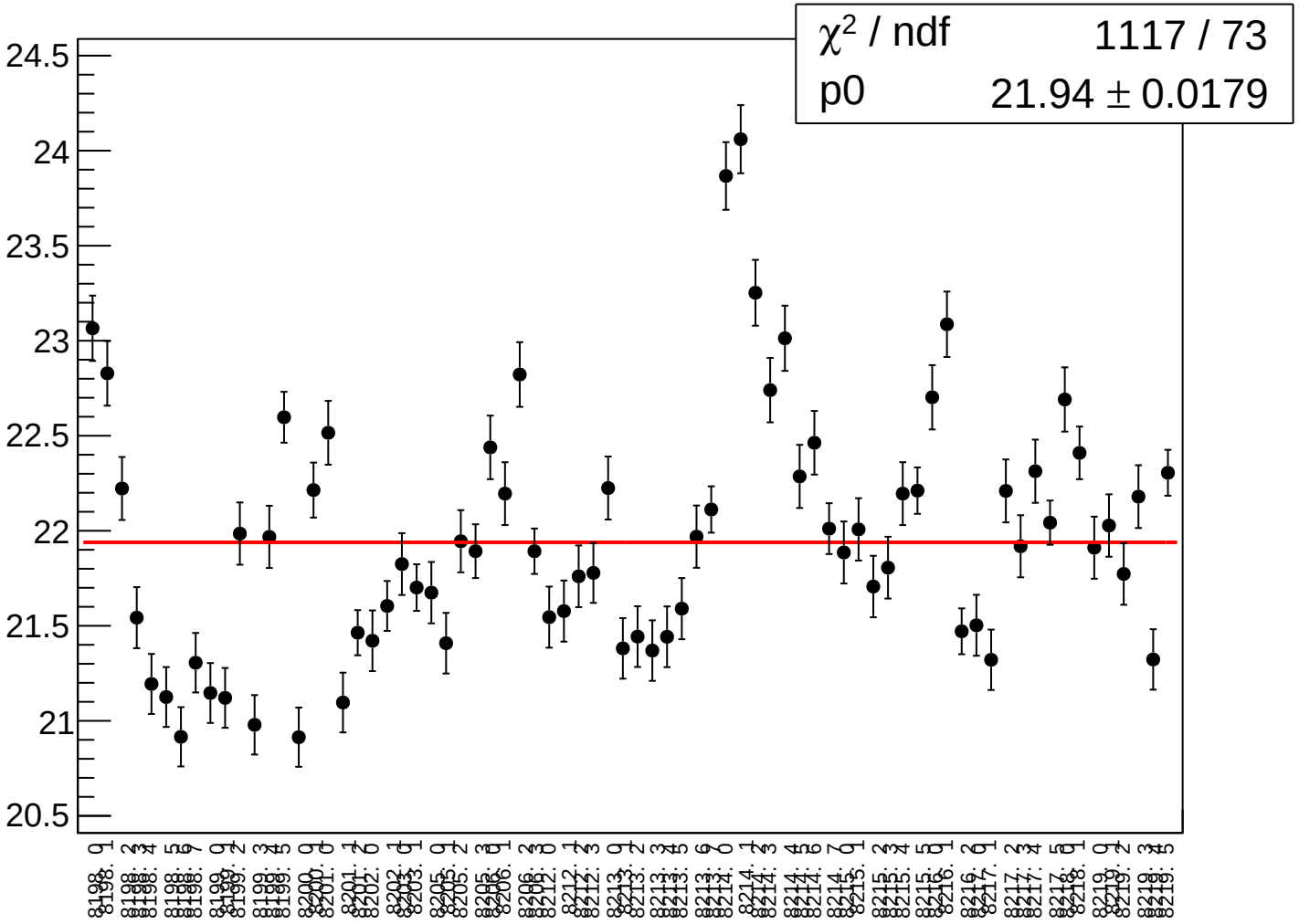

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ^2 / ndf 890.5 / 73
p0 16.11 ± 0.01315
17
16.5
16
15.5
15

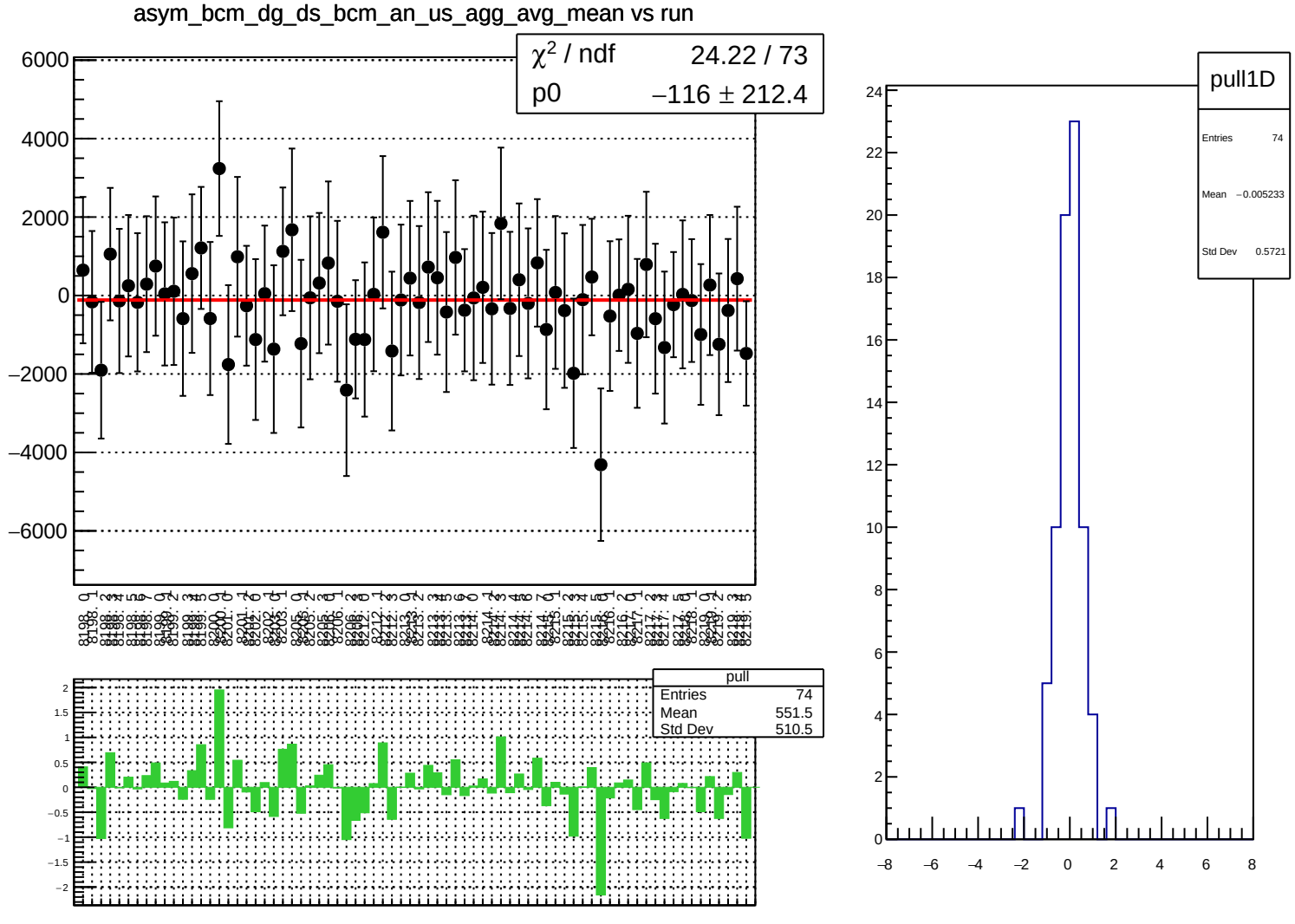

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.65 / 73
p0 −138.5 ± 213.2
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 345.4
Std Dev 303.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

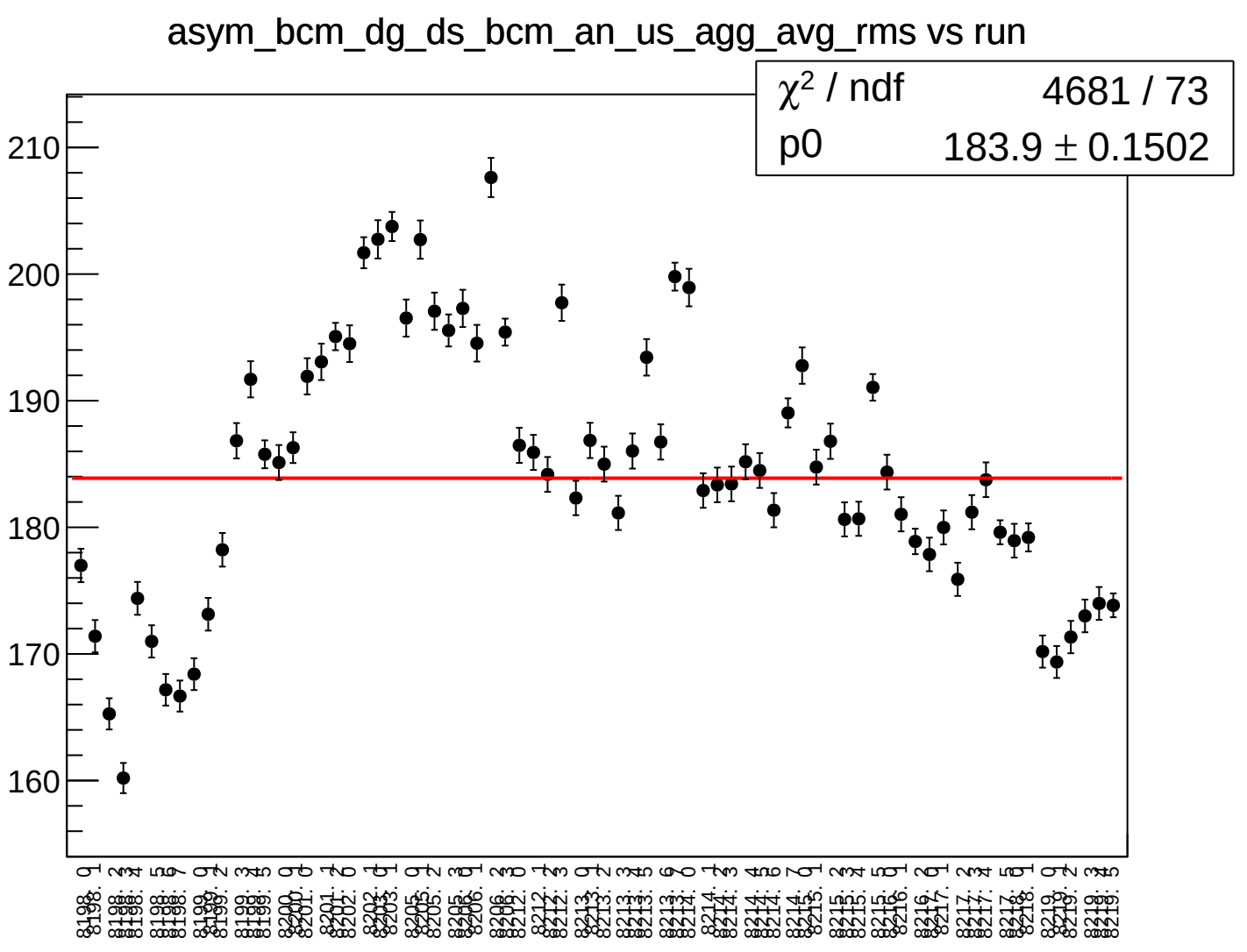

pull1D
Entries 74
Mean −0.008013
Std Dev 0.5771
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

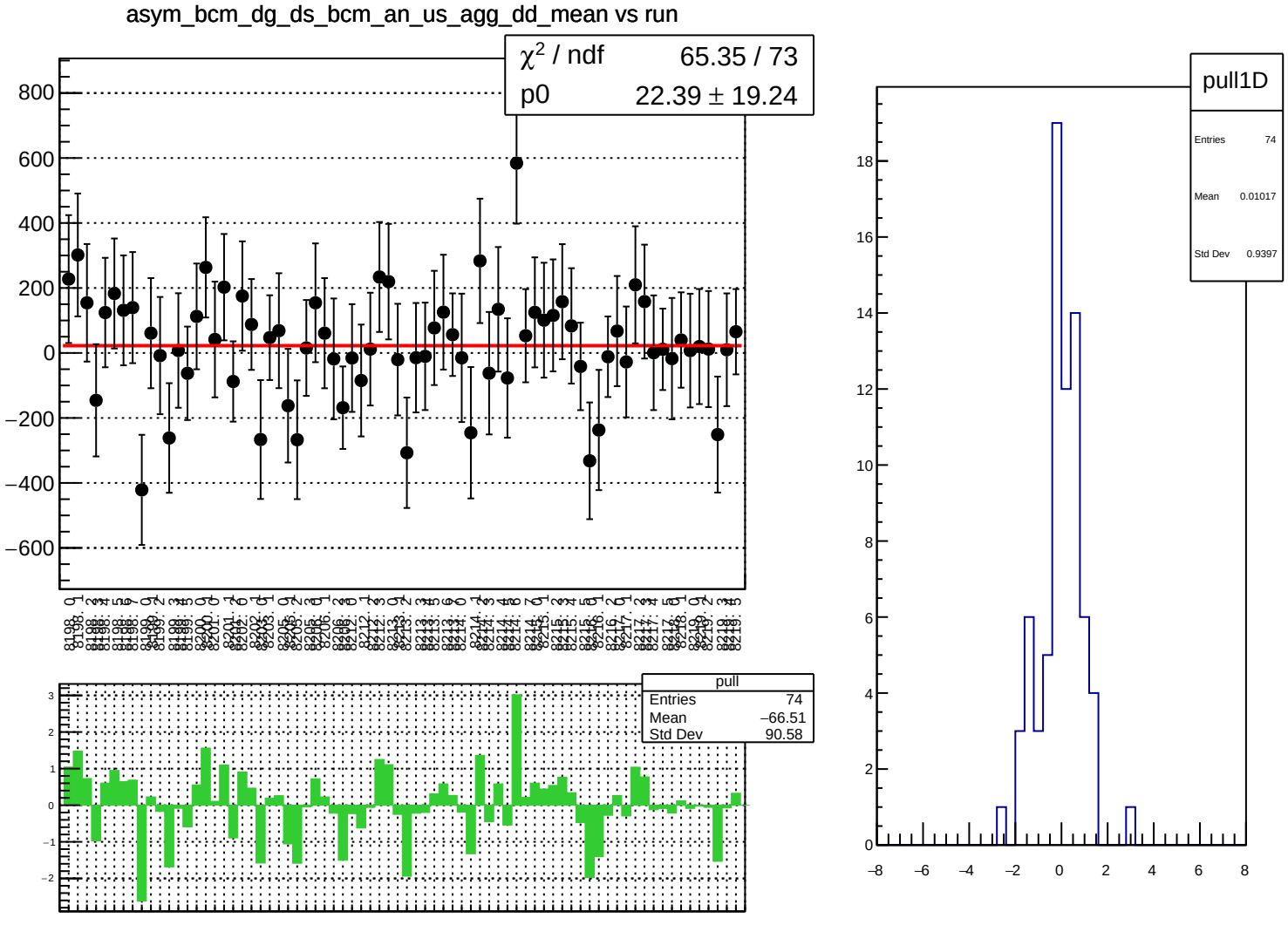

asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4808 / 73
p0 184.5 ± 0.1507
210
200
190
180
170
160

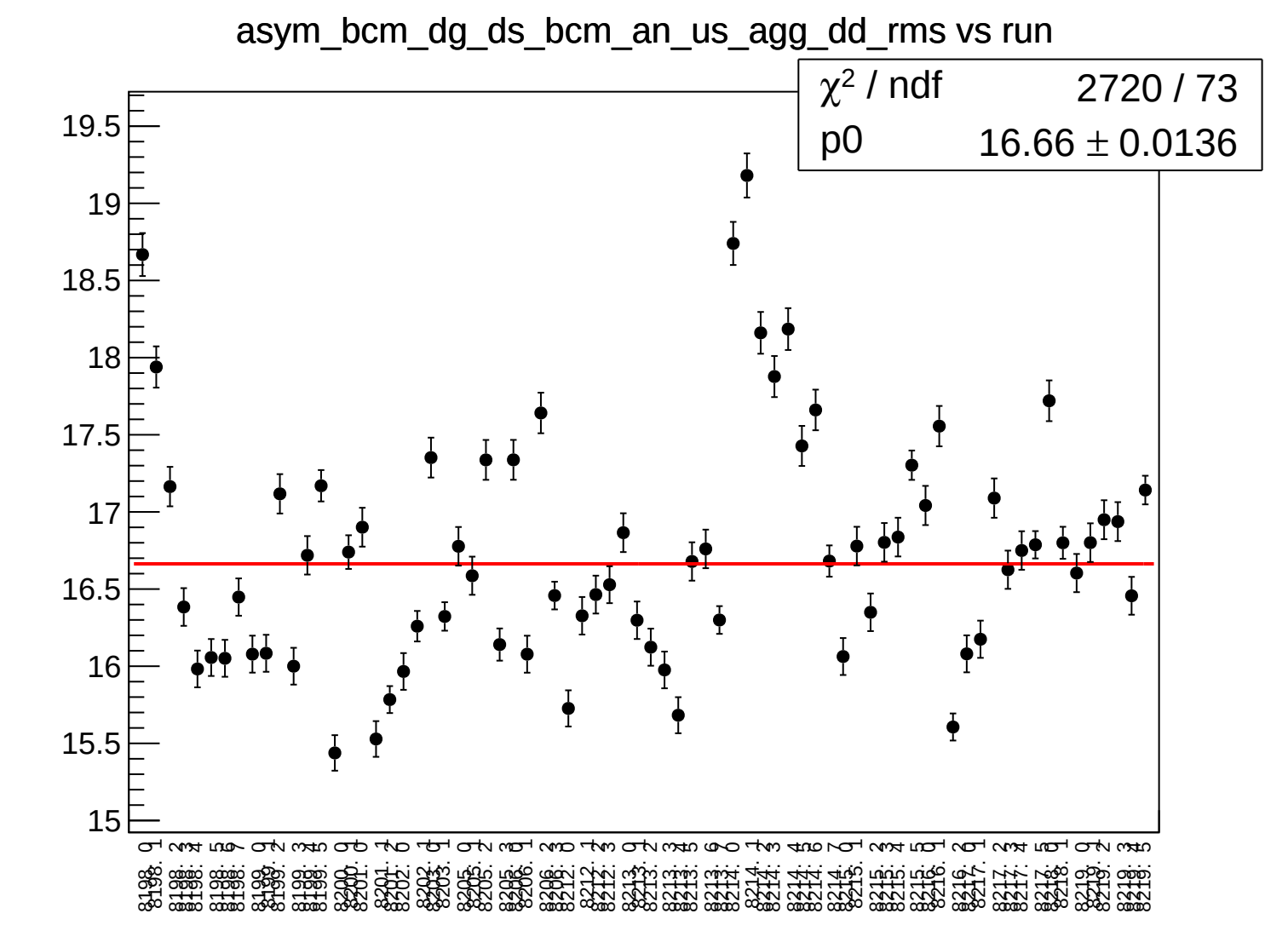

asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.4 / 73
p0 −2.155 ± 25.32
pull
Entries 74
Mean −60.41
Std Dev 94.51
pull1D
Entries 74
Mean −0.01131
Std Dev 1.055

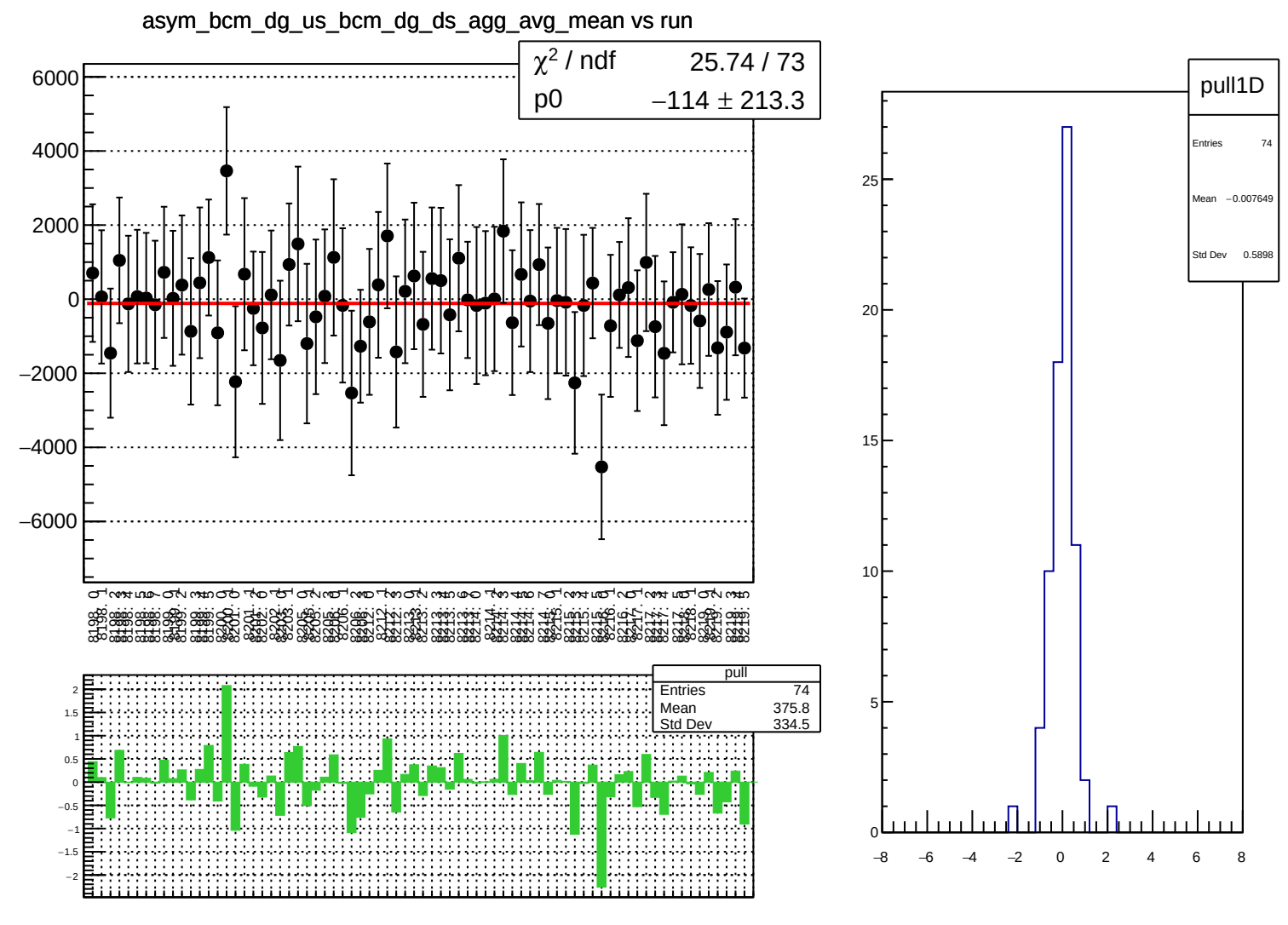

asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1117 / 73
p0 21.94 ± 0.0179
24.5
24
23.5
23
22.5
22
21.5
21
20.5

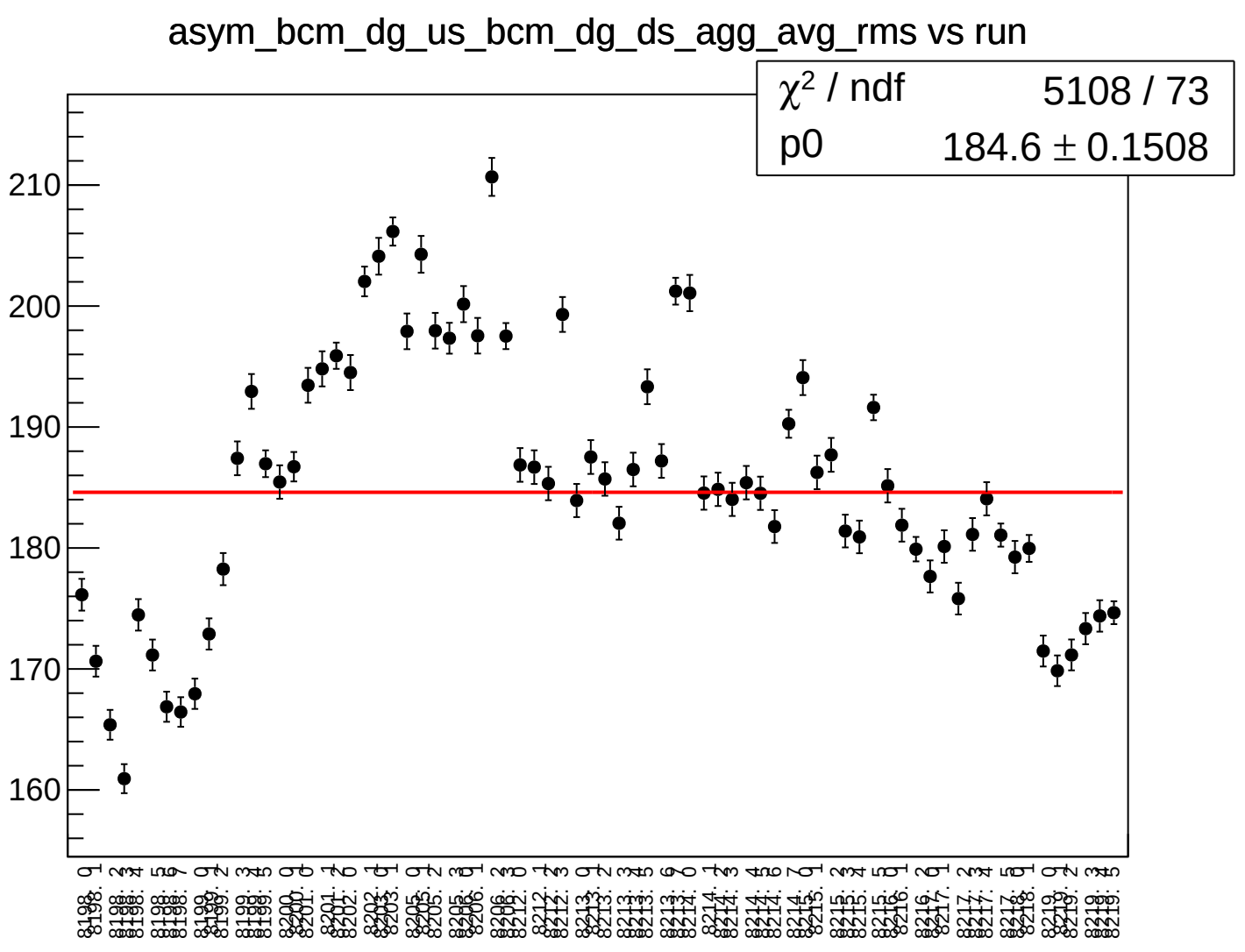

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.22 / 73
p0 −116 ± 212.4
pull
Entries 74
Mean 551.5
Std Dev 510.5
pull1D
Entries 74
Mean −0.005233
Std Dev 0.5721

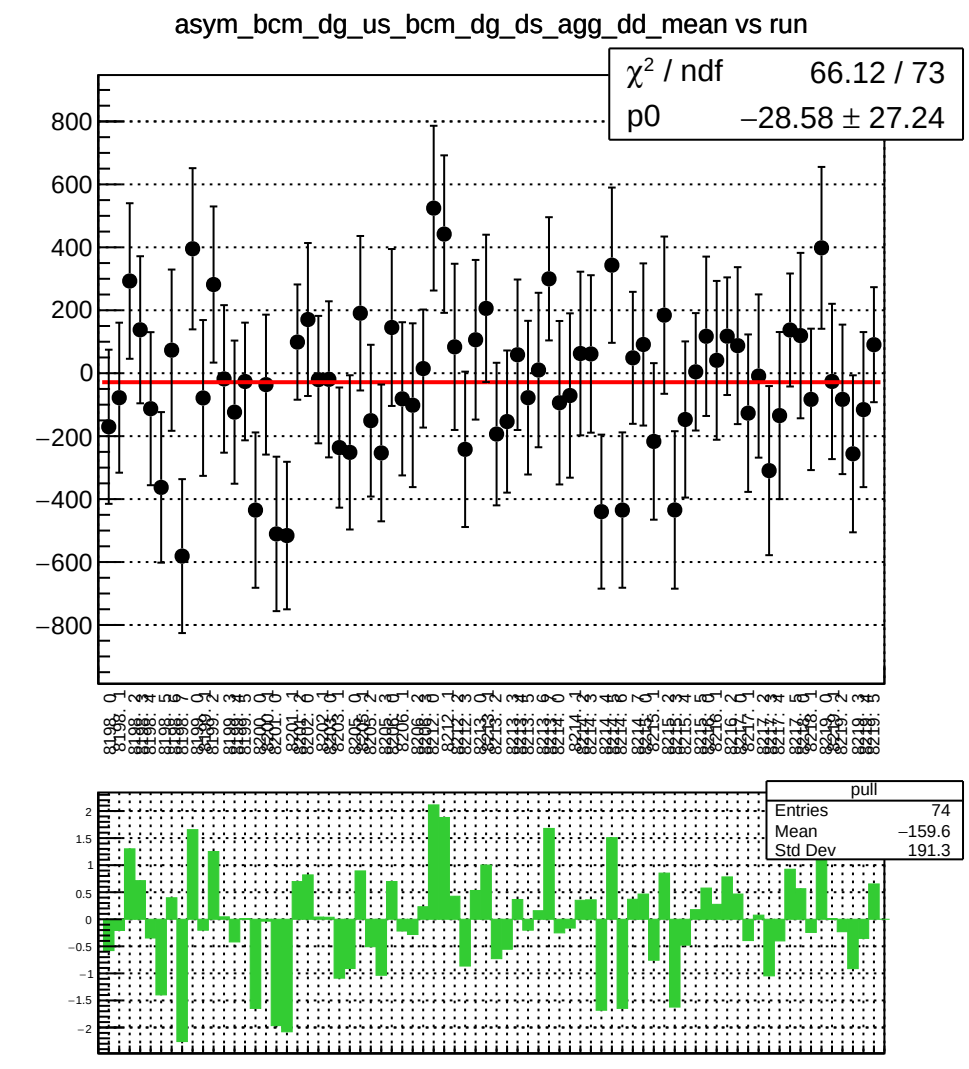

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4681 / 73
p0 183.9 ± 0.1502
210
200
190
180
170
160

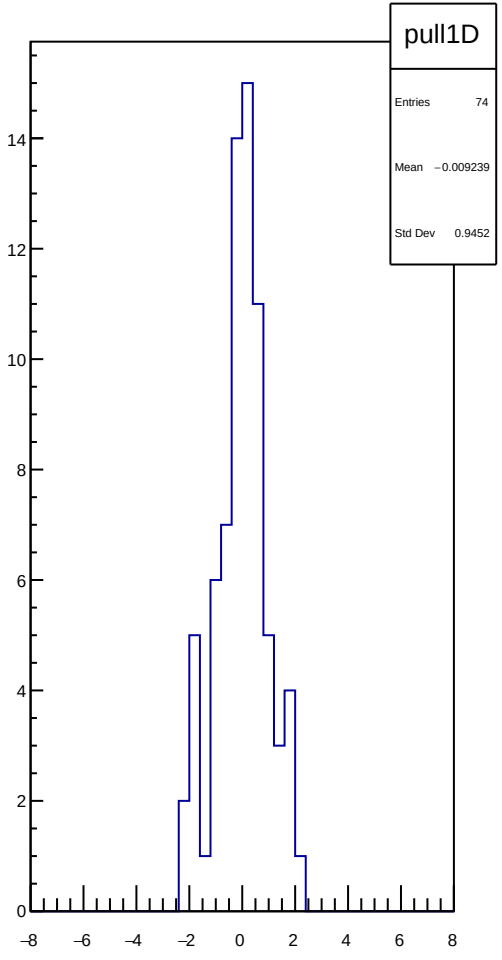

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.35 / 73
p0 22.39 ± 19.24
pull
Entries 74
Mean −66.51
Std Dev 90.58
pull1D
Entries 74
Mean 0.01017
Std Dev 0.9397

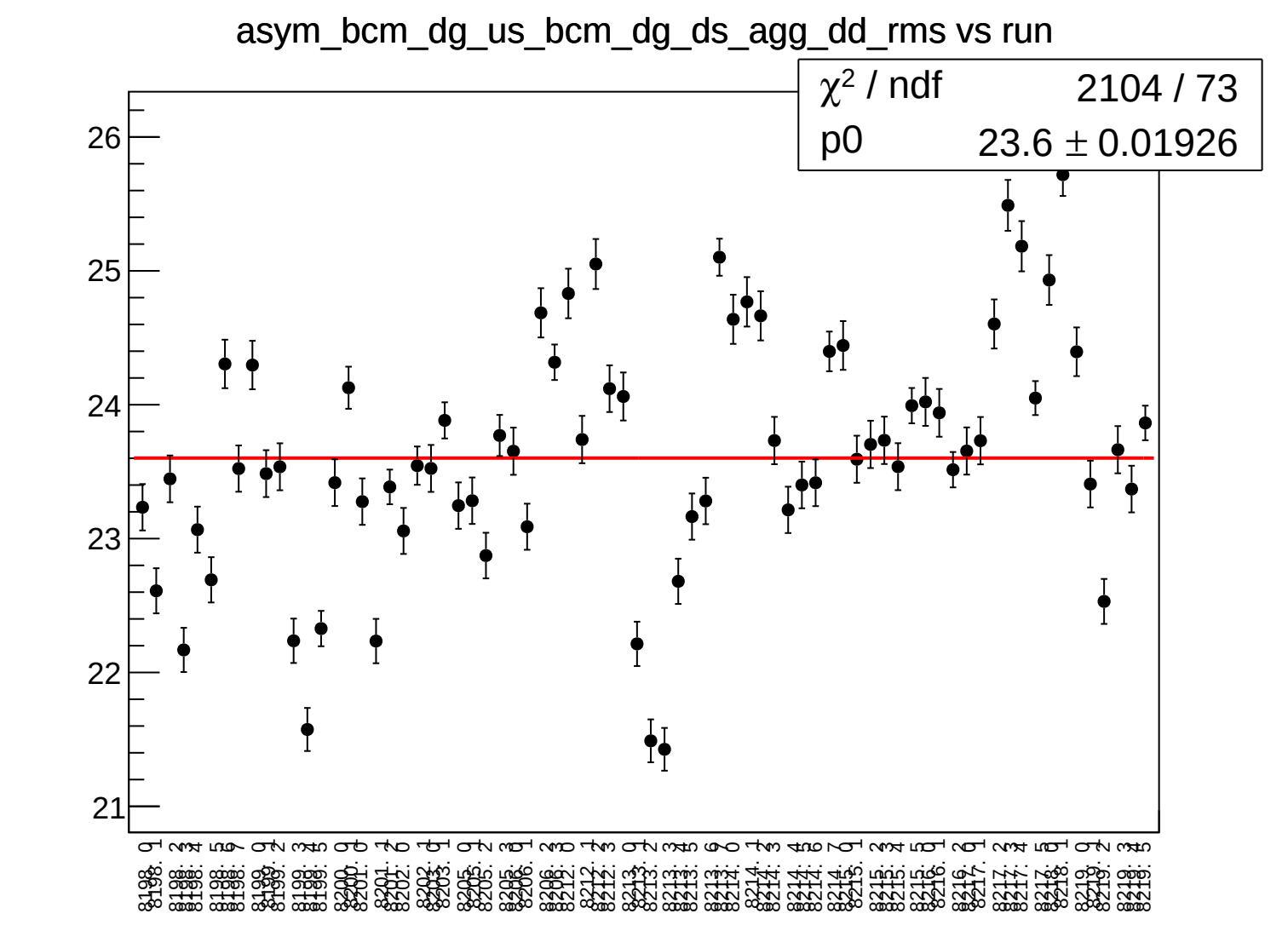

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2720 / 73
p0 16.66 ± 0.0136
19.5
19
18.5
18
17.5
17
16.5
16
15.5
15

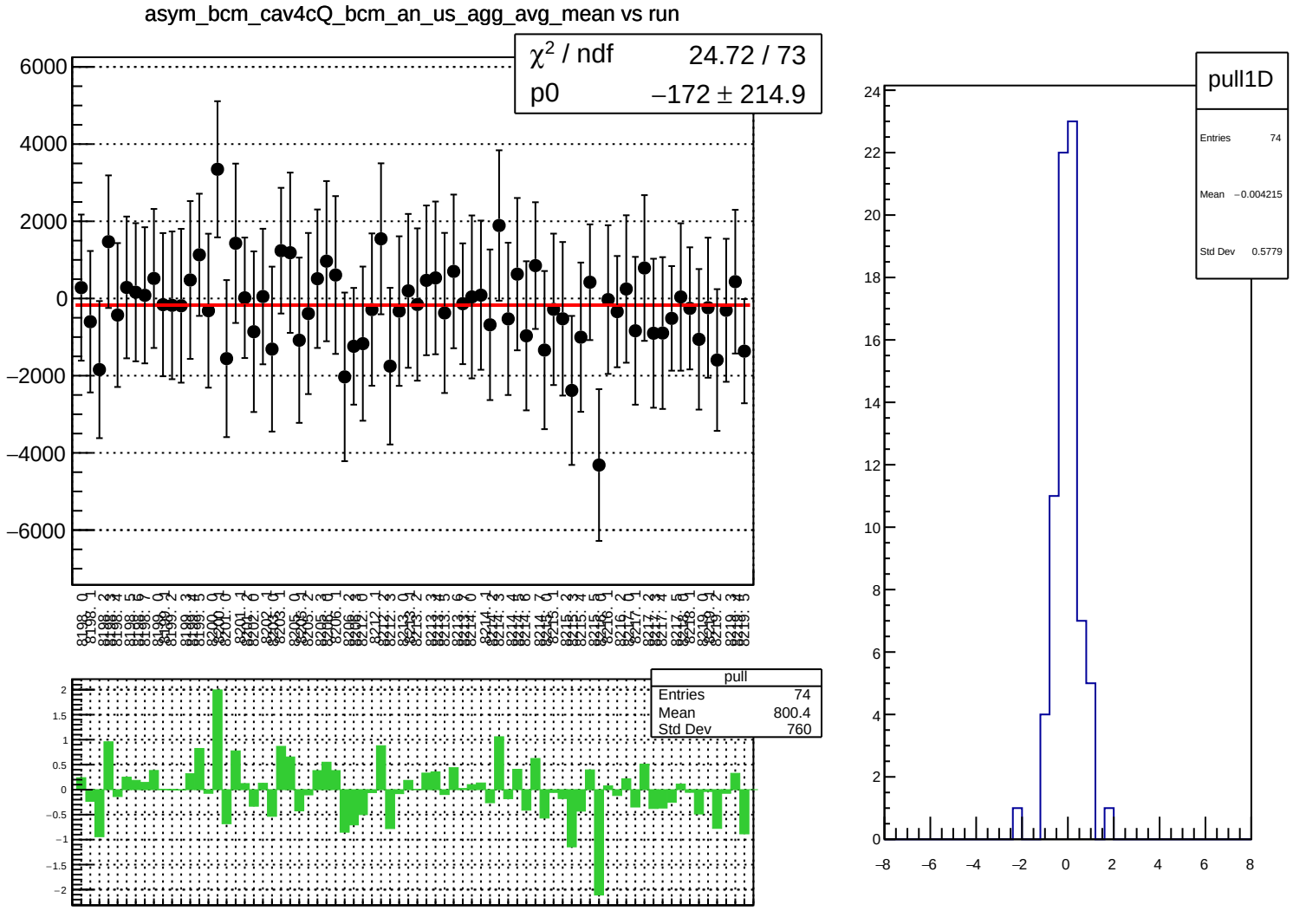

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 25.74 / 73
p0 −114 ± 213.3
pull
Entries 74
Mean 375.8
Std Dev 334.5
pull1D
Entries 74
Mean −0.007649
Std Dev 0.5898

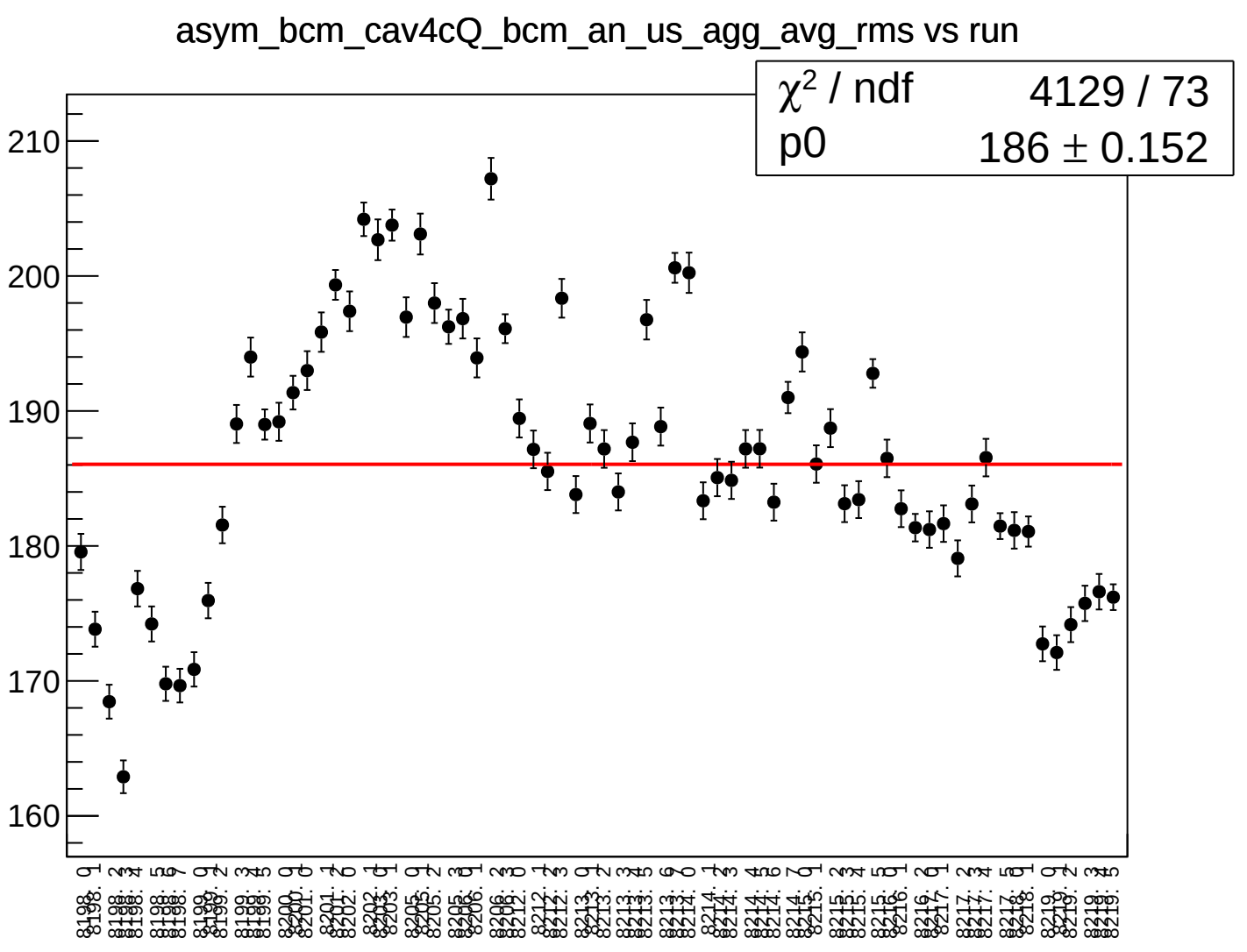

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 5108 / 73
p0 184.6 ± 0.1508
210
200
190
180
170
160

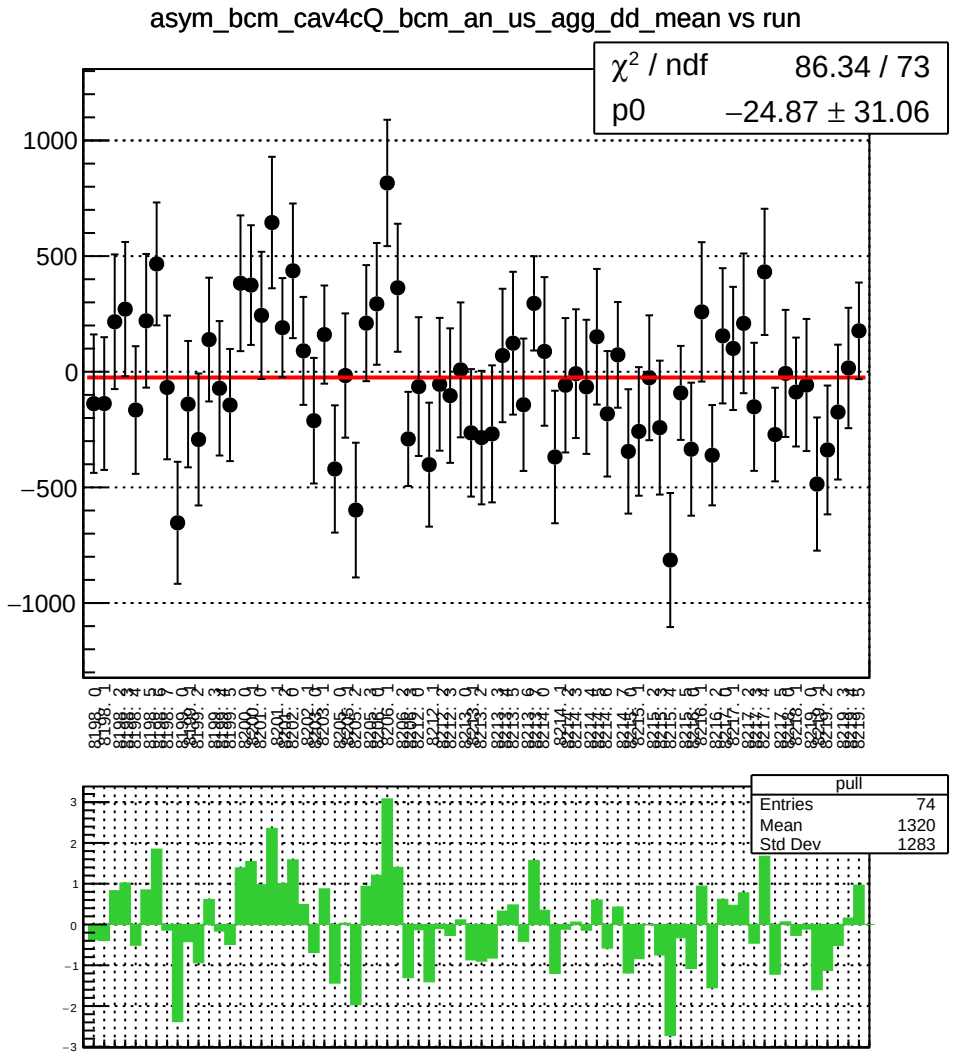

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 66.12 / 73
p0 −28.58 ± 27.24
pull
Entries 74
Mean −159.6
Std Dev 191.3

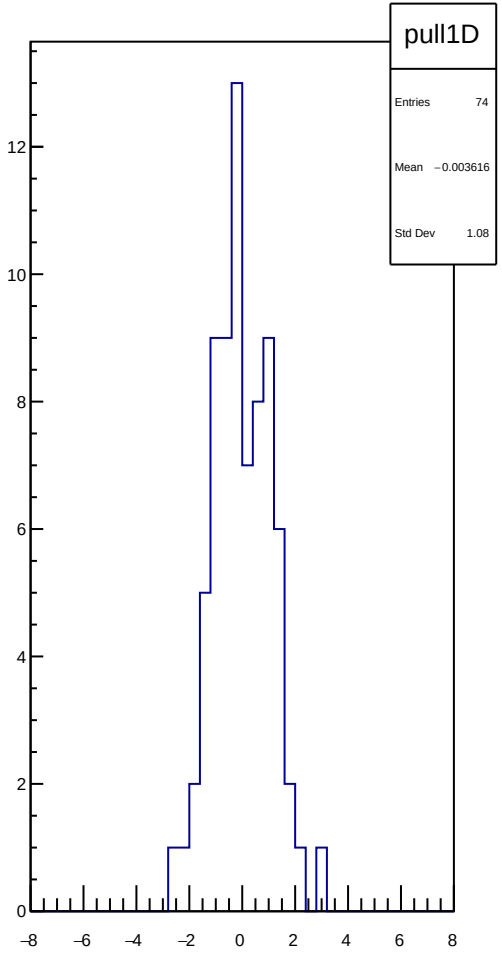

pull1D
Entries 74
Mean −0.009239
Std Dev 0.9452

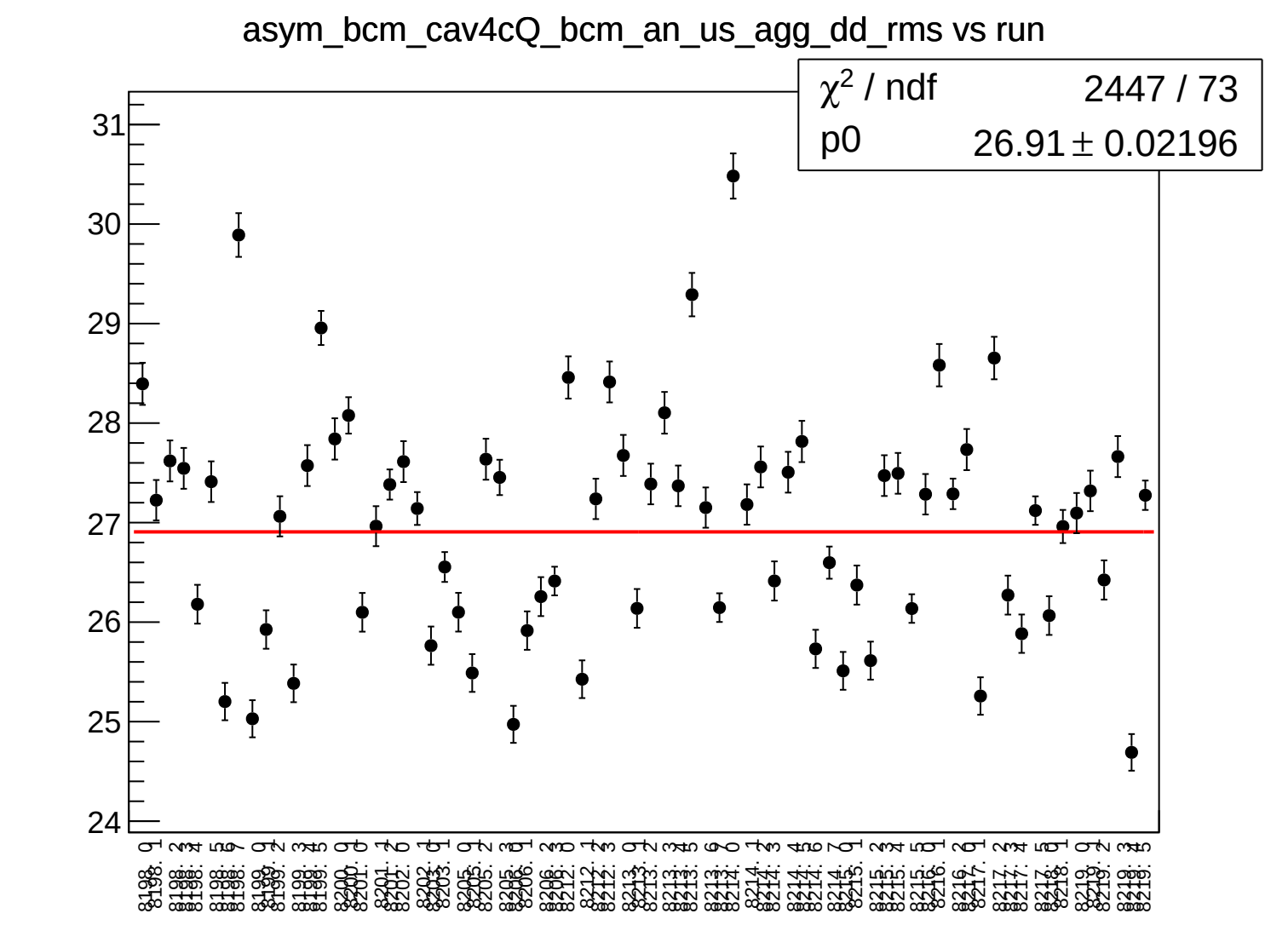

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2104 / 73
p0 23.6 ± 0.01926
26
25
24
23
22
21

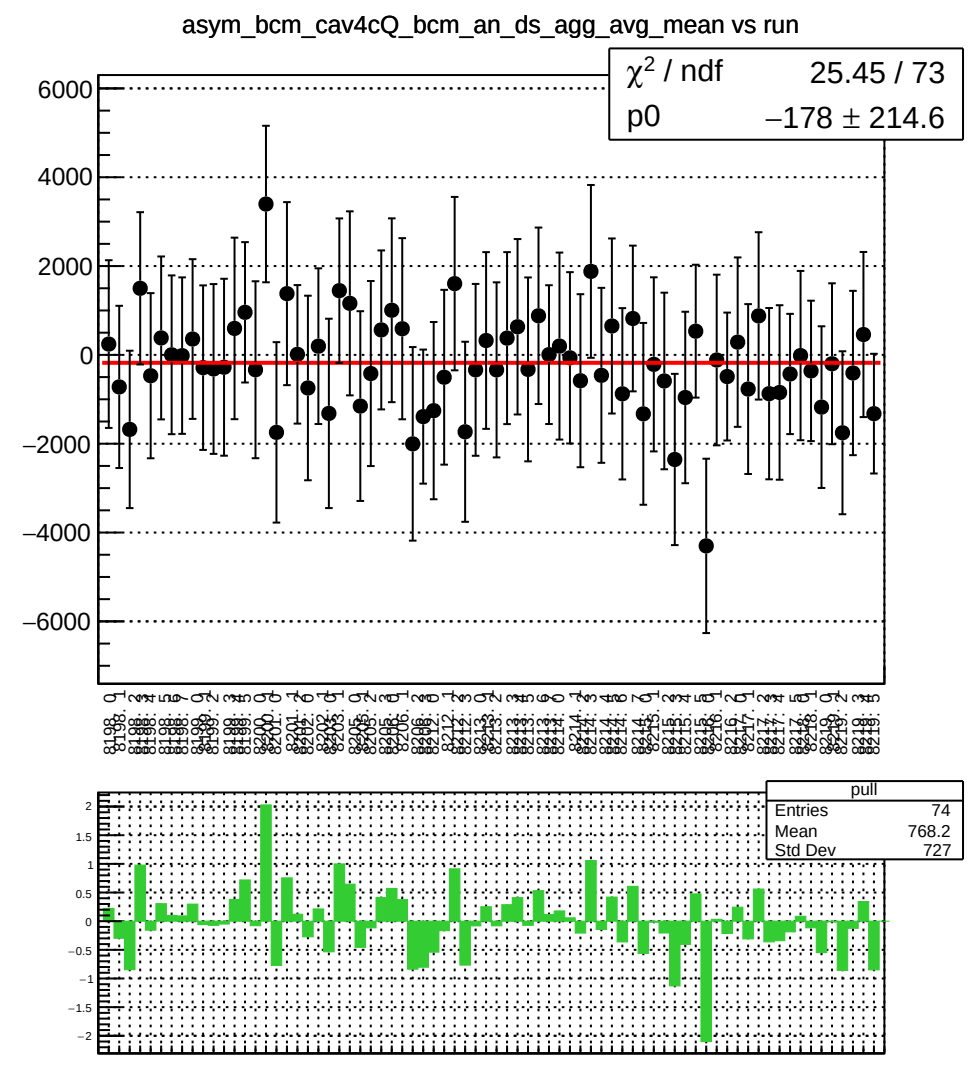

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 24.72 / 73
p0 −172 ± 214.9
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 800.4
Std Dev 760
pull1D
Entries 74
Mean −0.004215
Std Dev 0.5779

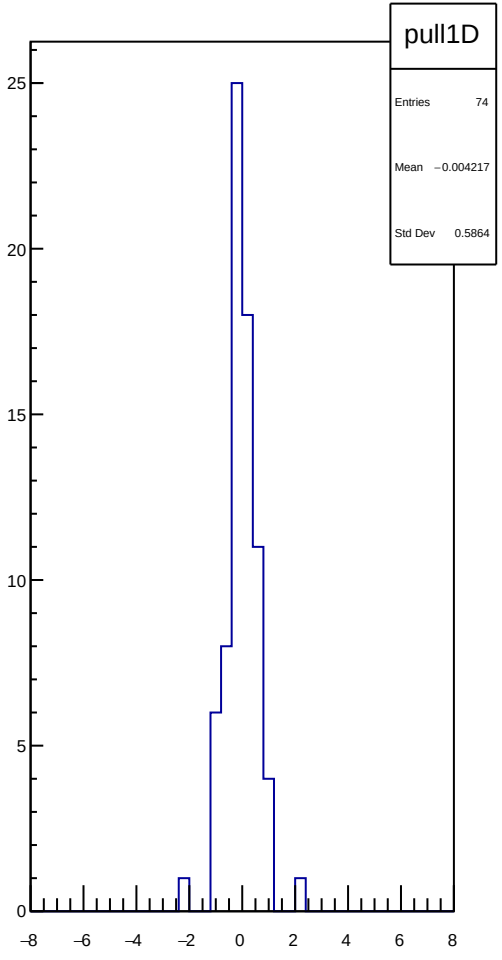

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 4129 / 73
p0 186 ± 0.152
210
200
190
180
170
160

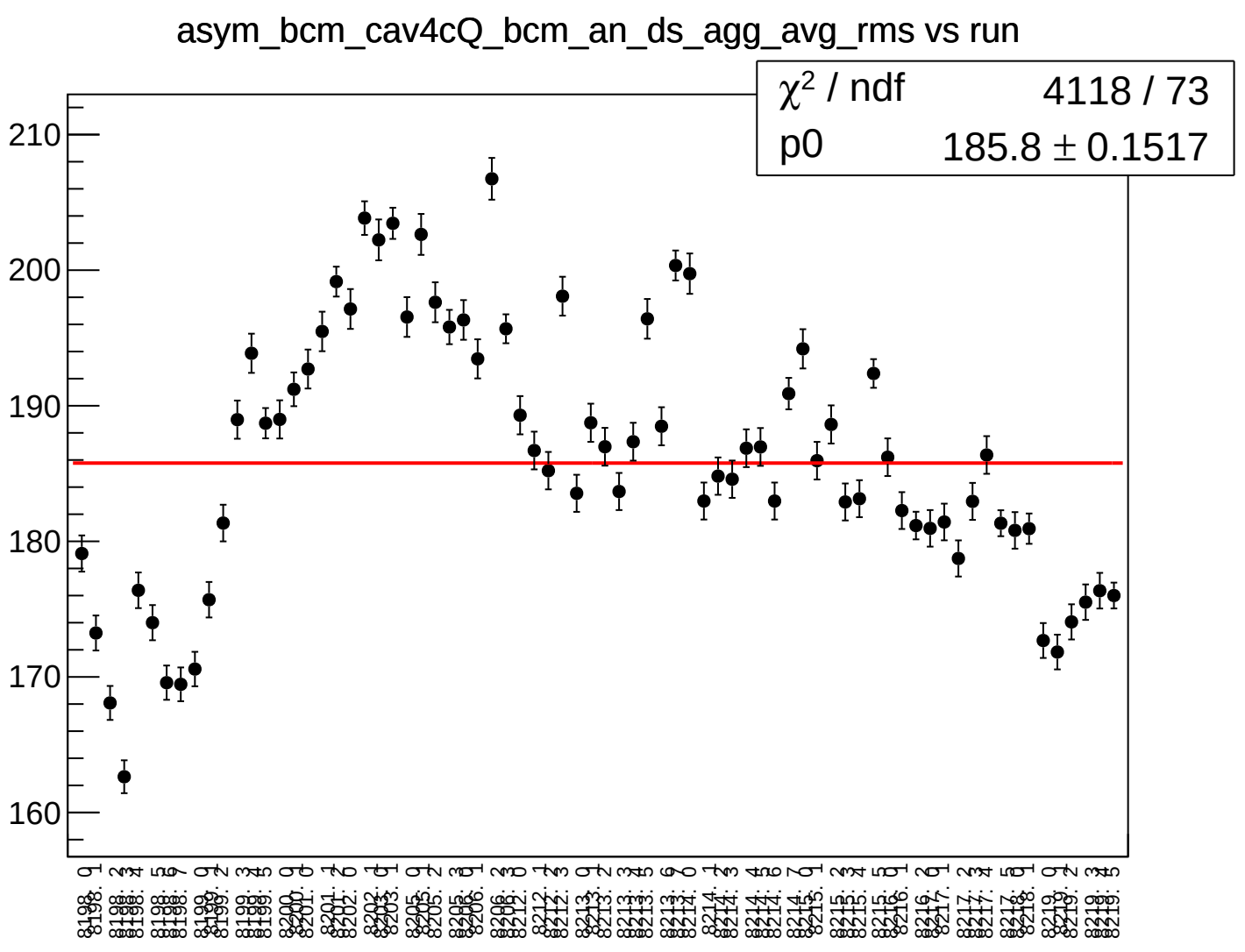

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 86.34 / 73
p0 −24.87 ± 31.06
1000
500
0
−500
−1000
pull
Entries 74
Mean 1320
Std Dev 1283
3
2
1
0
−1
−2
−3

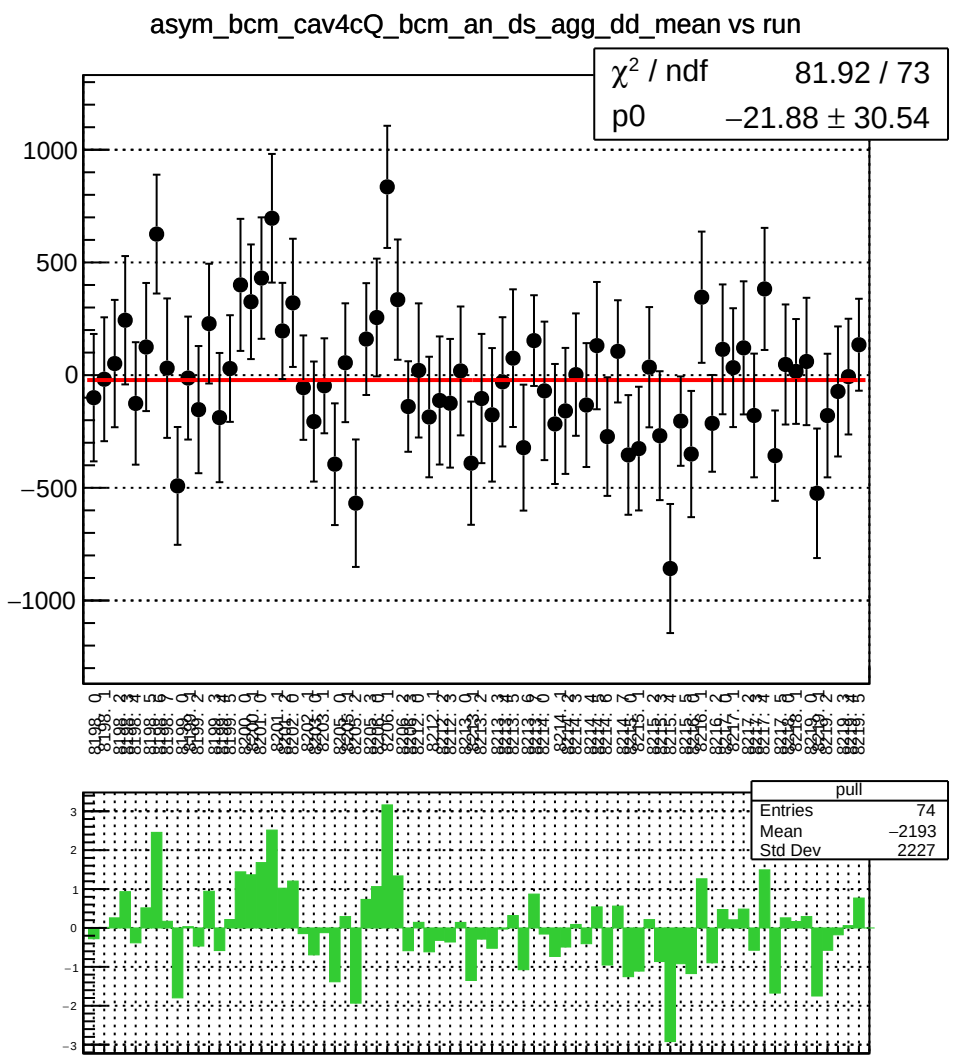

pull1D
Entries 74
Mean −0.003616
Std Dev 1.08
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

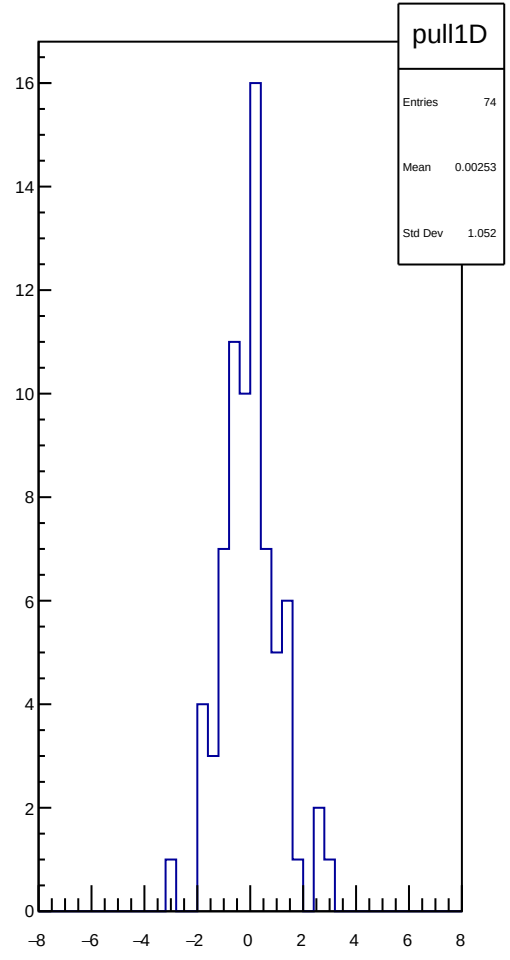

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 2447 / 73
p0 26.91 ± 0.02196
31
30
29
28
27
26
25
24

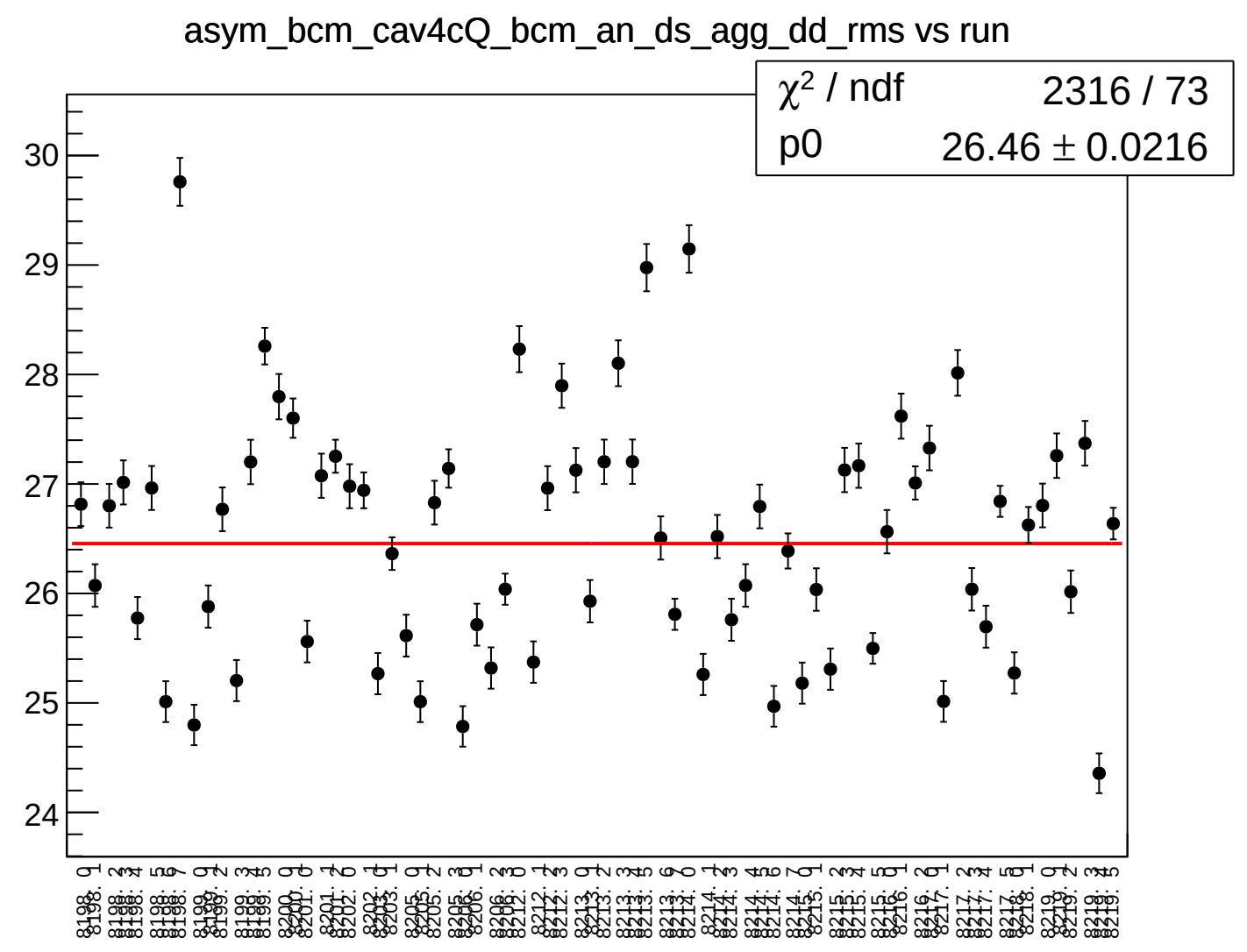

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 25.45 / 73
p0 −178 ± 214.6
pull
Entries 74
Mean 768.2
Std Dev 727

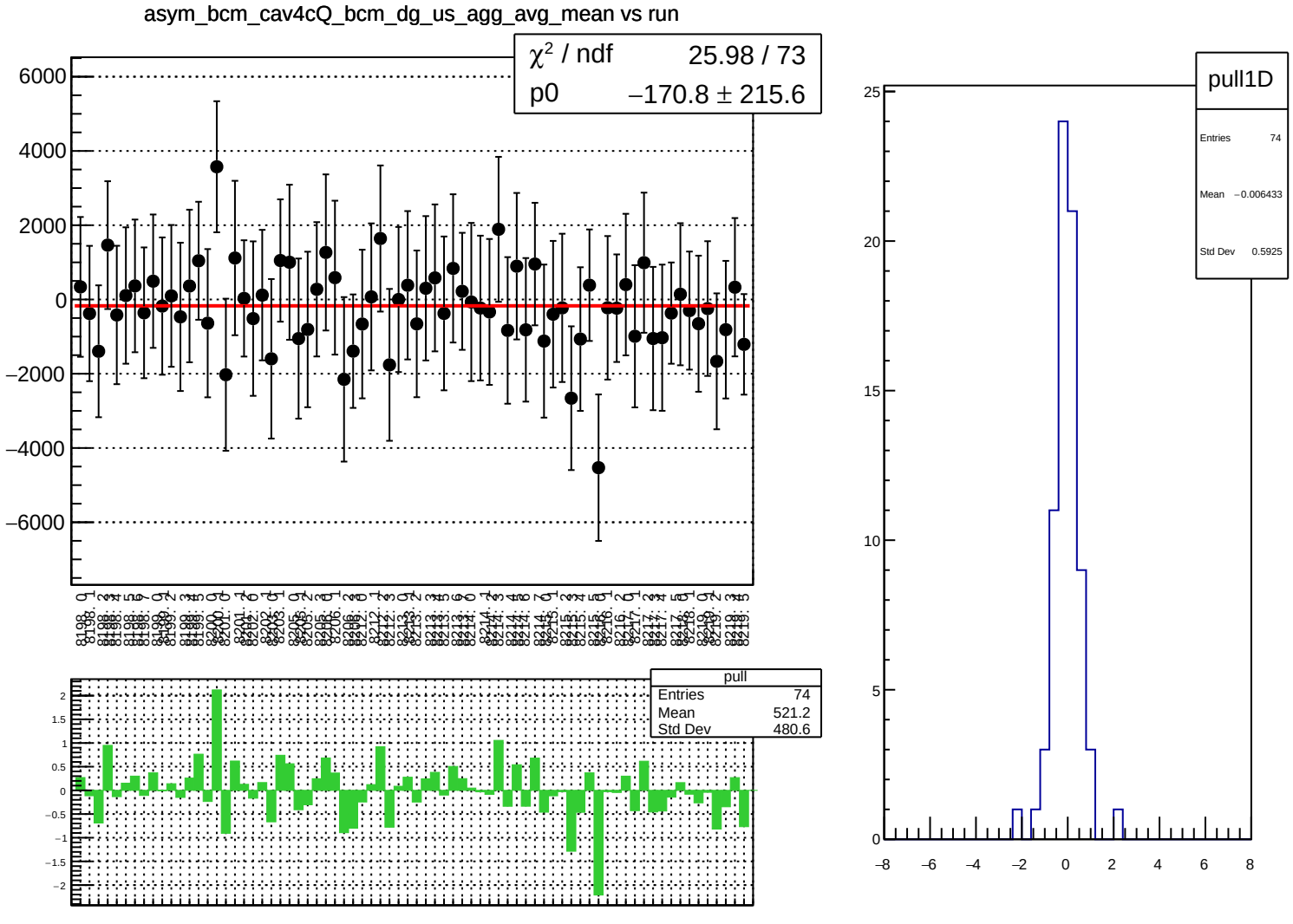

pull1D
Entries 74
Mean −0.004217
Std Dev 0.5864

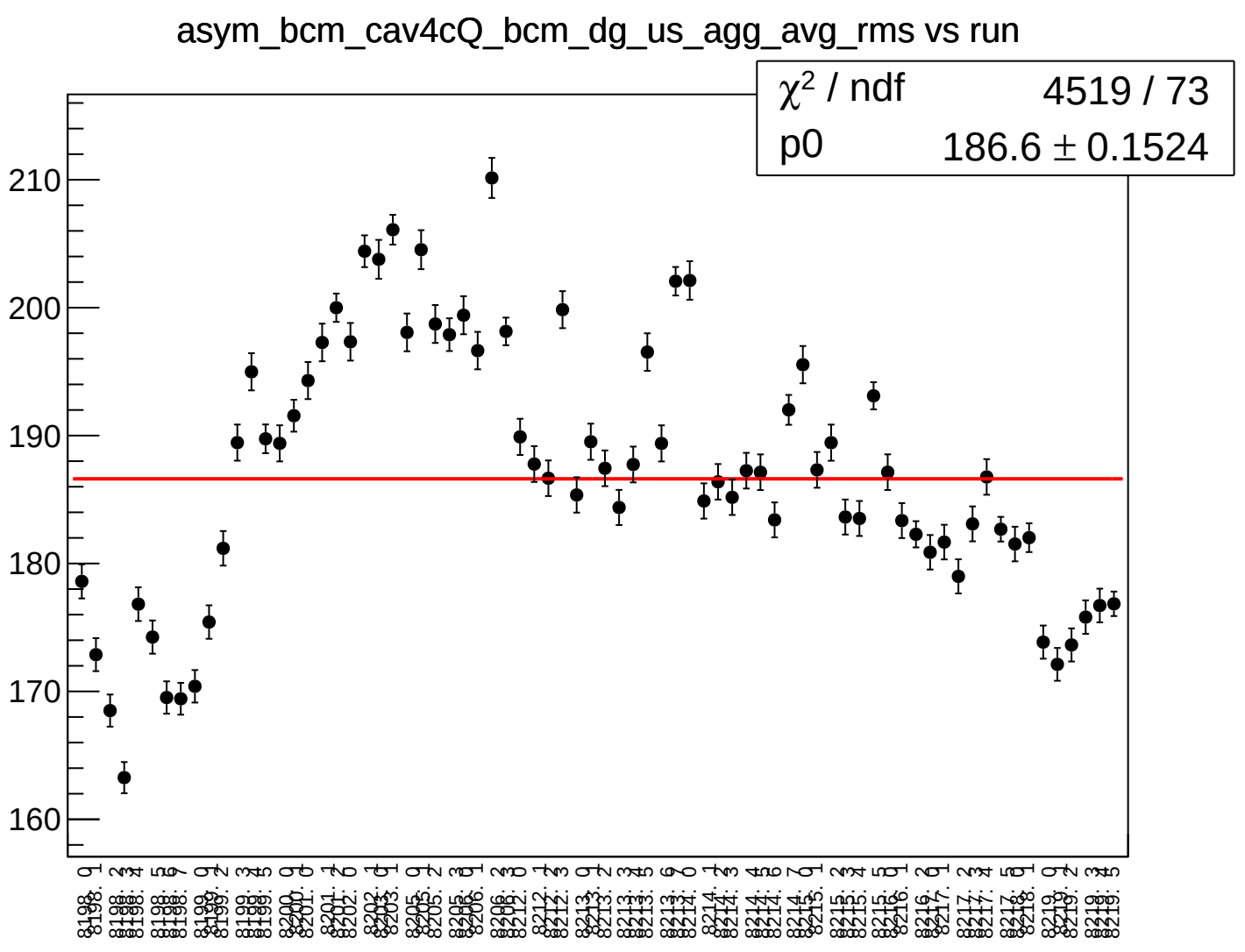

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 4118 / 73
p0 185.8 ± 0.1517
210
200
190
180
170
160

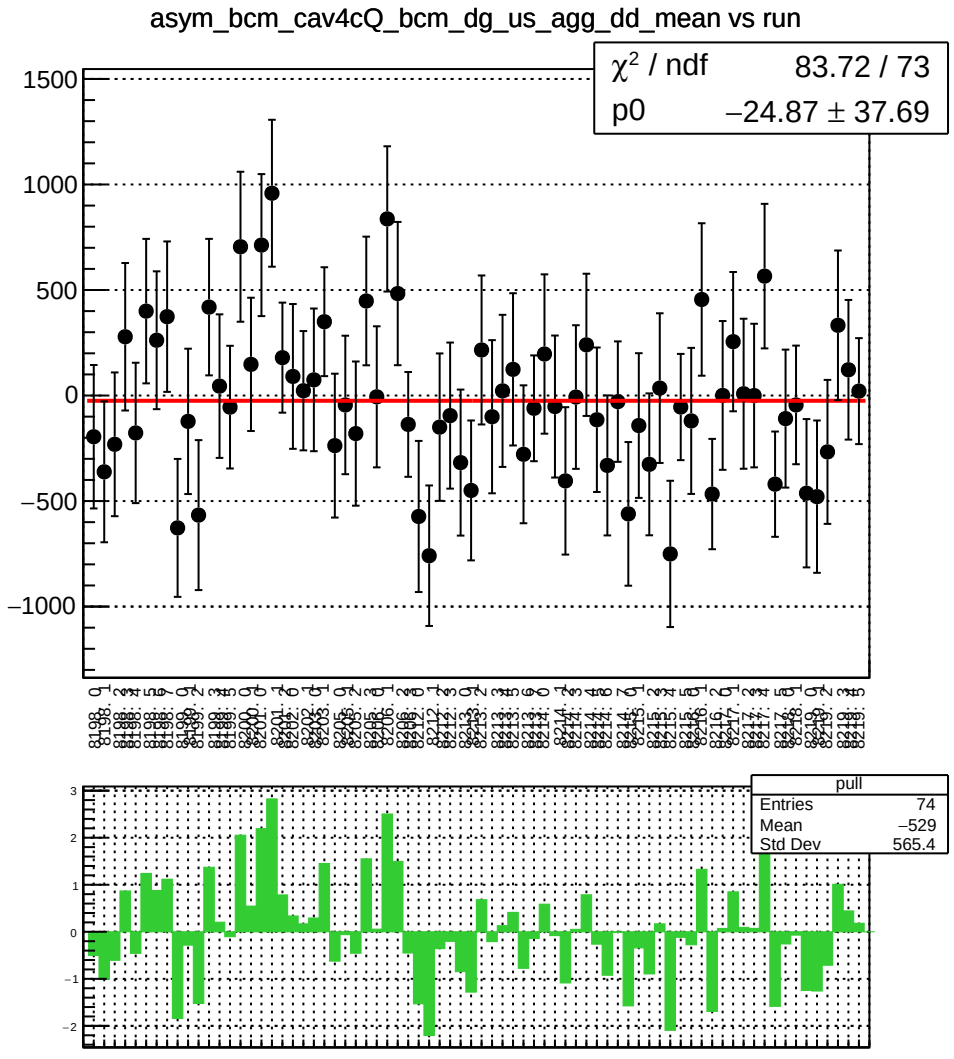

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 81.92 / 73
p0 −21.88 ± 30.54
1000
500
0
−500
−1000
pull
Entries 74
Mean −2193
Std Dev 2227
3
2
1
0
−1
−2
−3

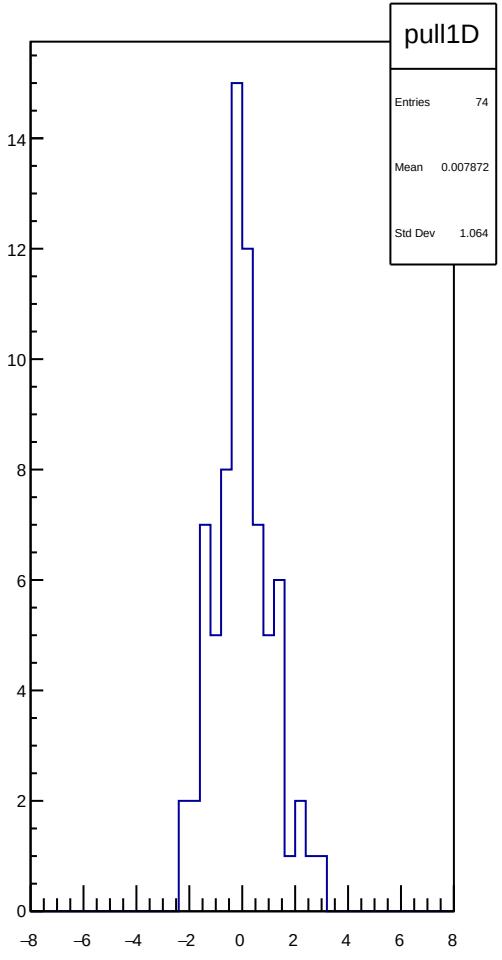

pull1D
Entries 74
Mean 0.00253
Std Dev 1.052
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

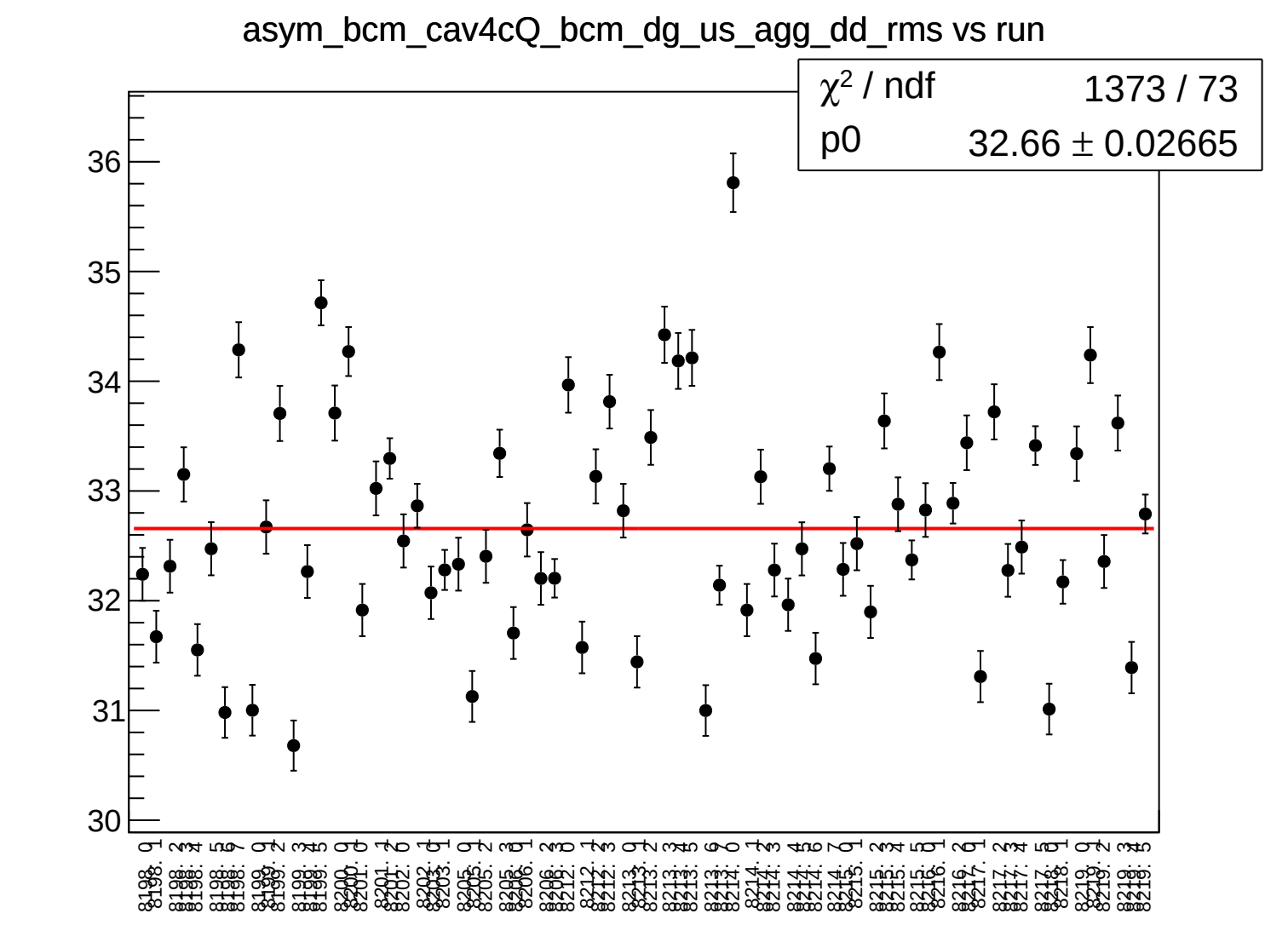

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2316 / 73
p0 26.46 ± 0.0216
30
29
28
27
26
25
24

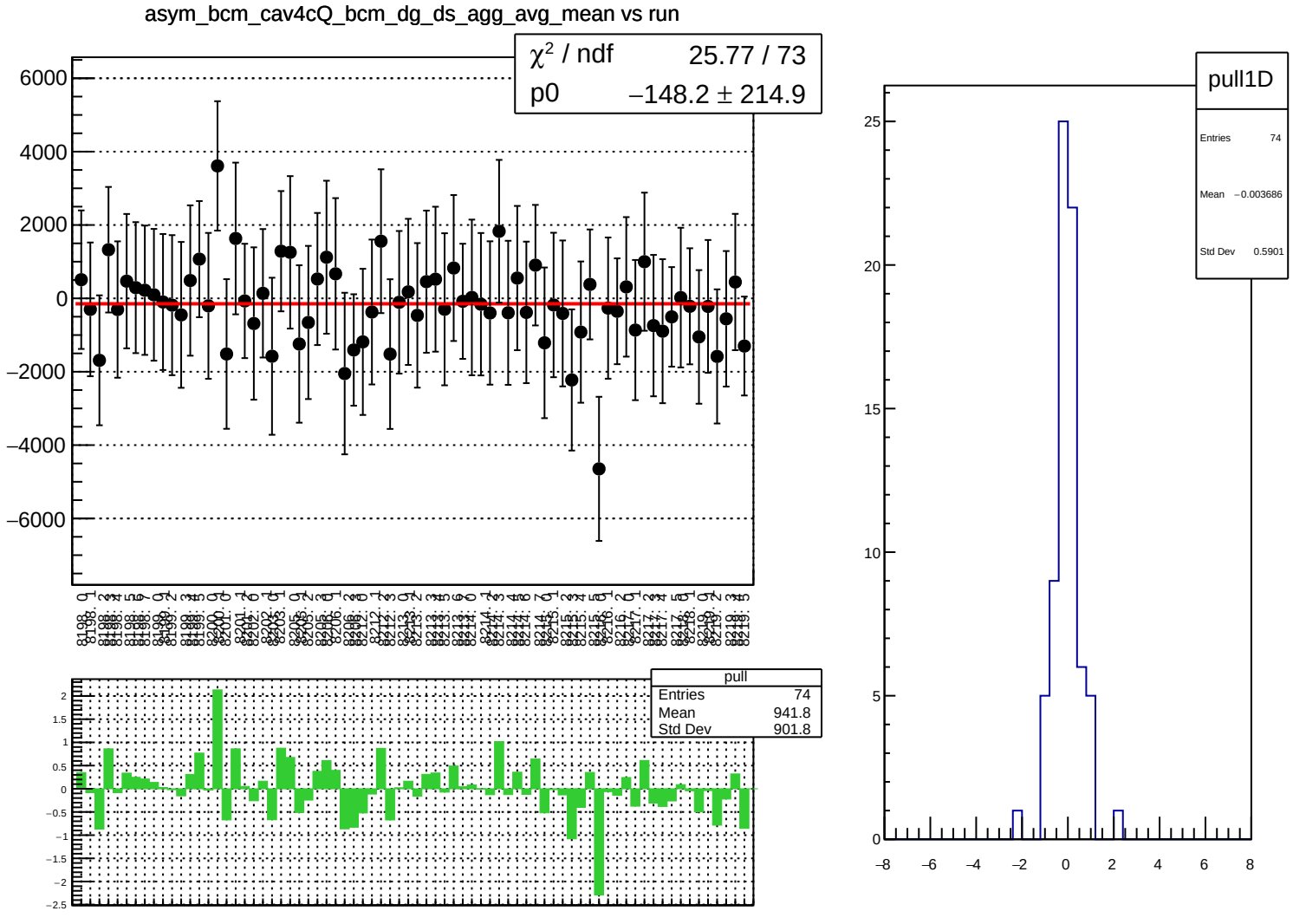

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 25.98 / 73
p0 −170.8 ± 215.6
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 521.2
Std Dev 480.6
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2
pull1D
Entries 74
Mean −0.006433
Std Dev 0.5925
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

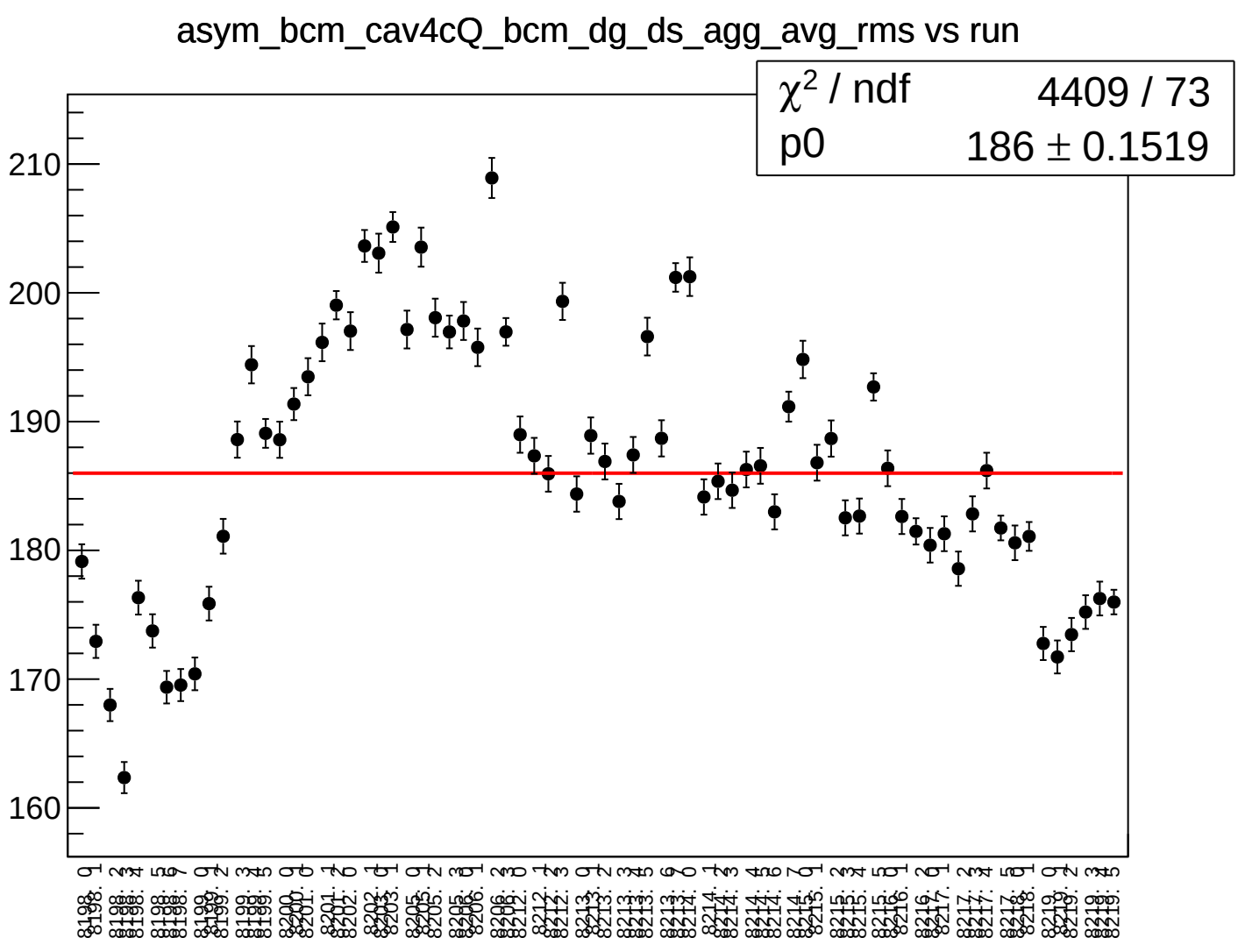

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 4519 / 73
p0 186.6 ± 0.1524
210
200
190
180
170
160

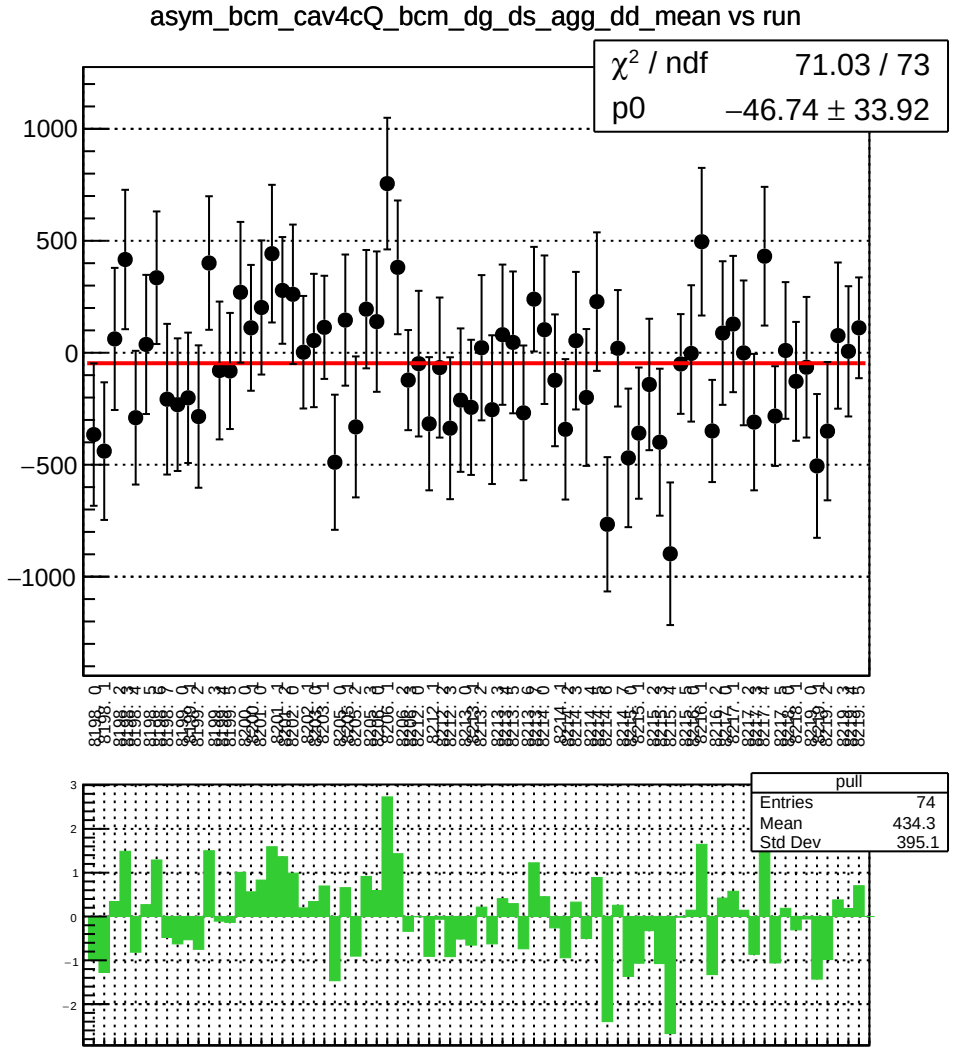

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 83.72 / 73
p0 −24.87 ± 37.69
pull
Entries 74
Mean −529
Std Dev 565.4

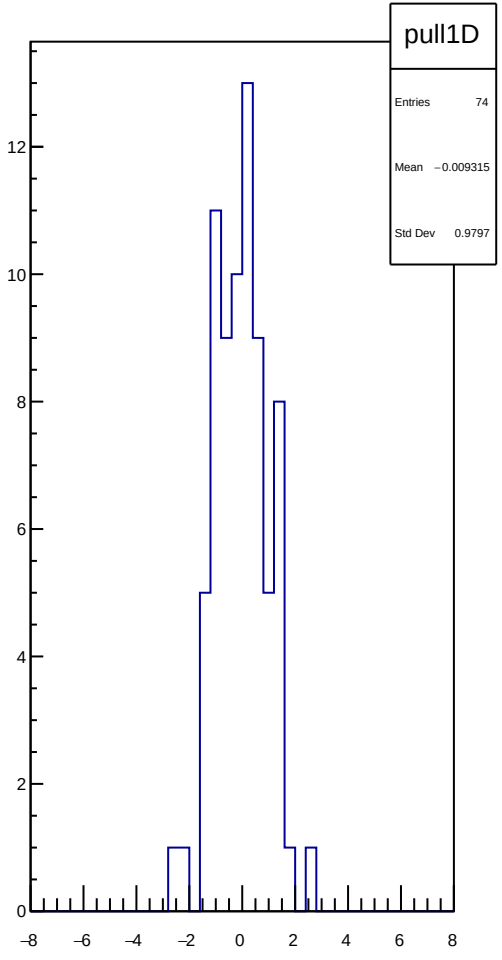

pull1D
Entries 74
Mean 0.007872
Std Dev 1.064

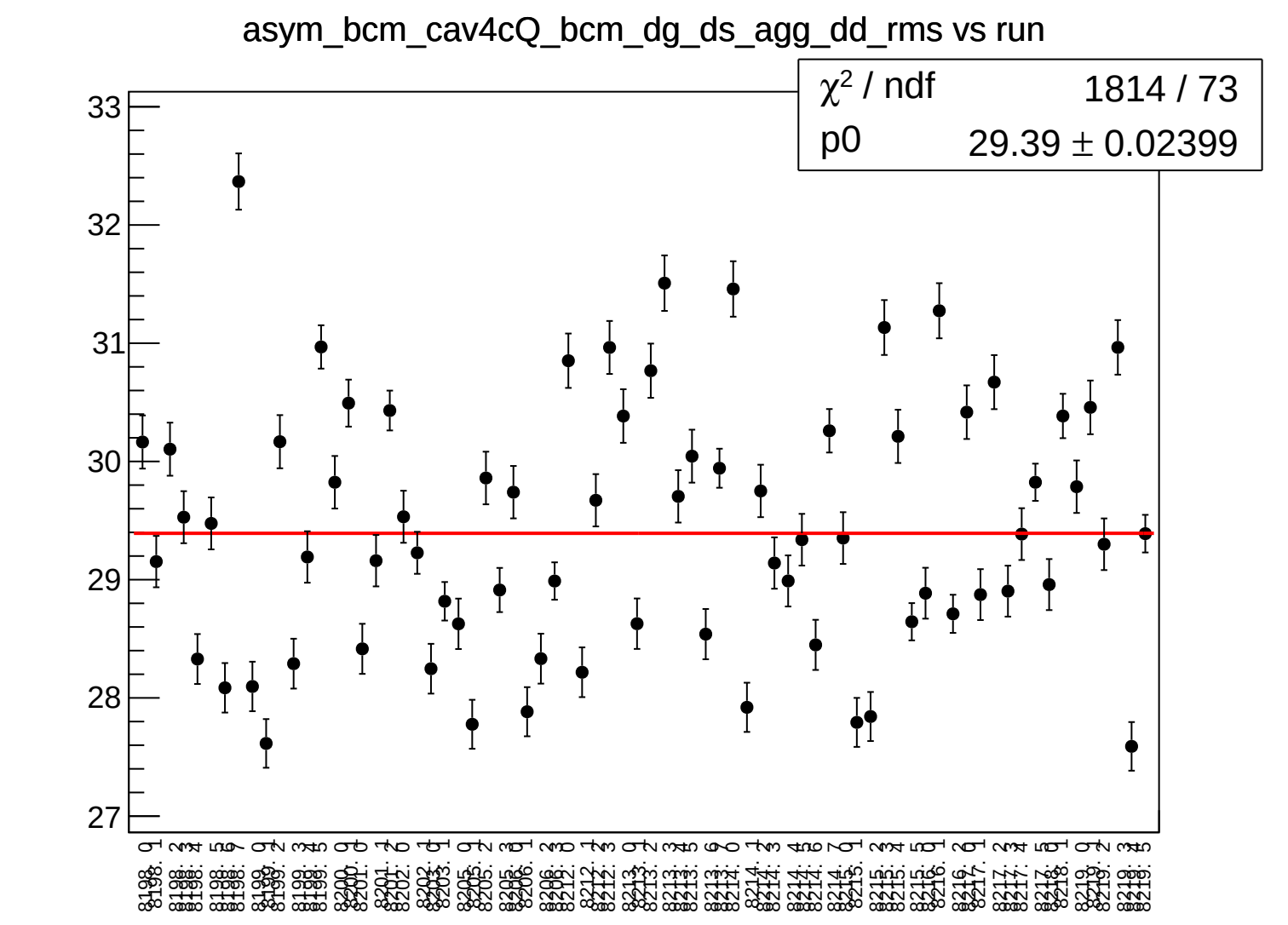

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1373 / 73
p0 32.66 ± 0.02665
36
35
34
33
32
31
30

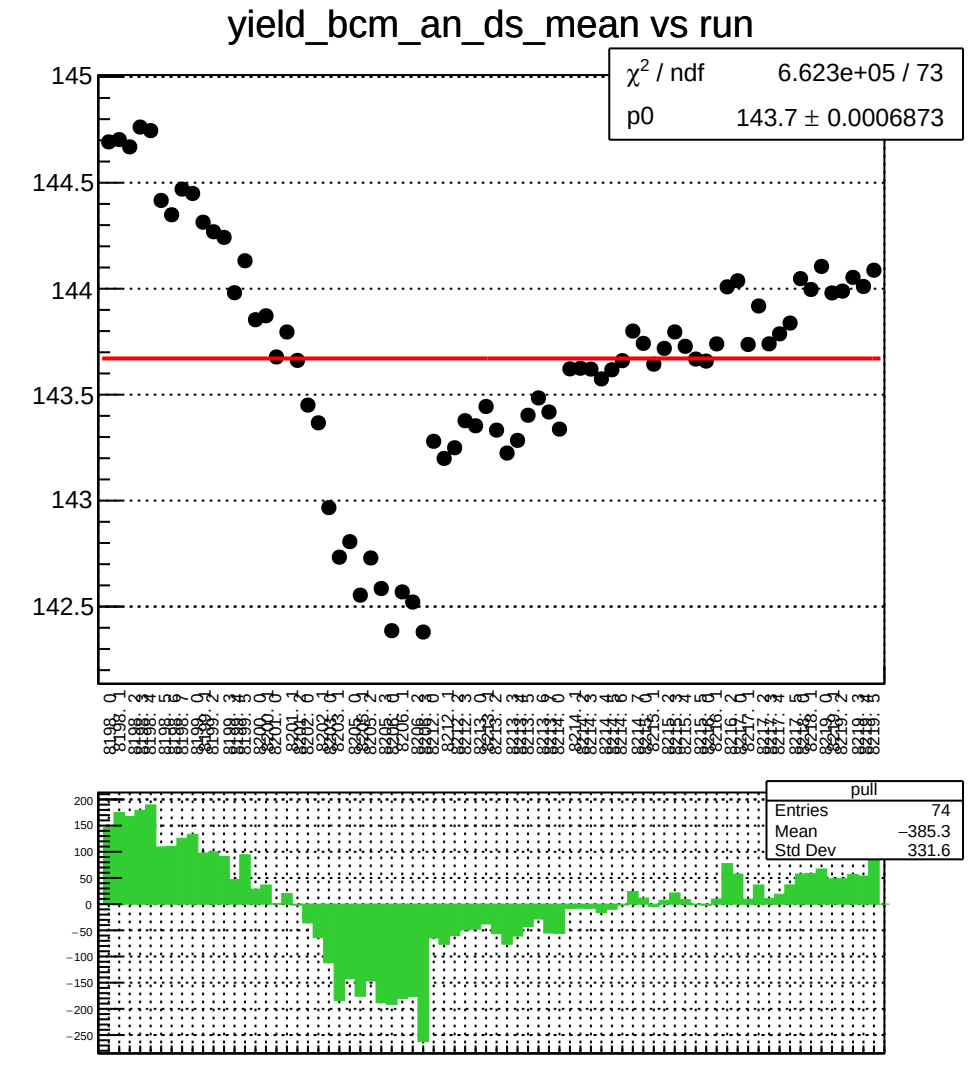

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 25.77 / 73
p0 −148.2 ± 214.9
pull
Entries 74
Mean 941.8
Std Dev 901.8
pull1D
Entries 74
Mean −0.003686
Std Dev 0.5901

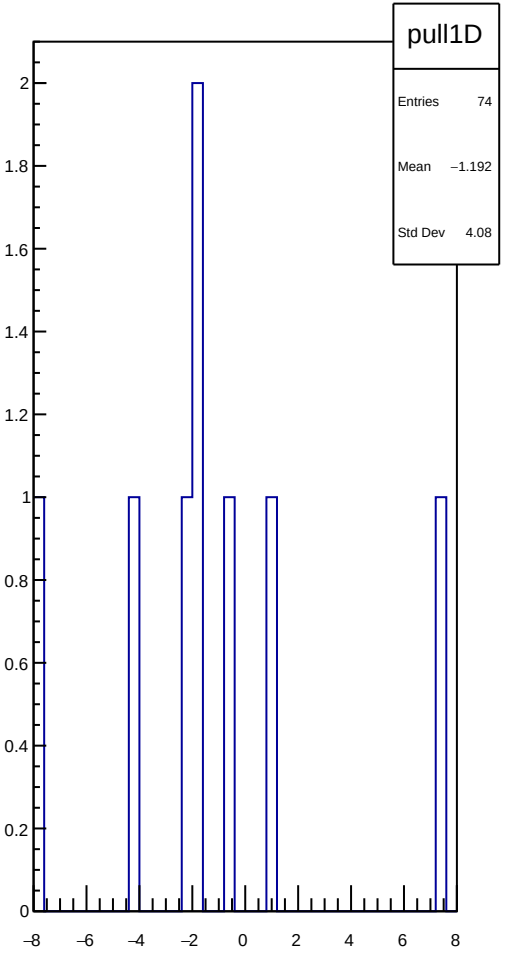

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 4409 / 73
p0 186 ± 0.1519
210
200
190
180
170
160

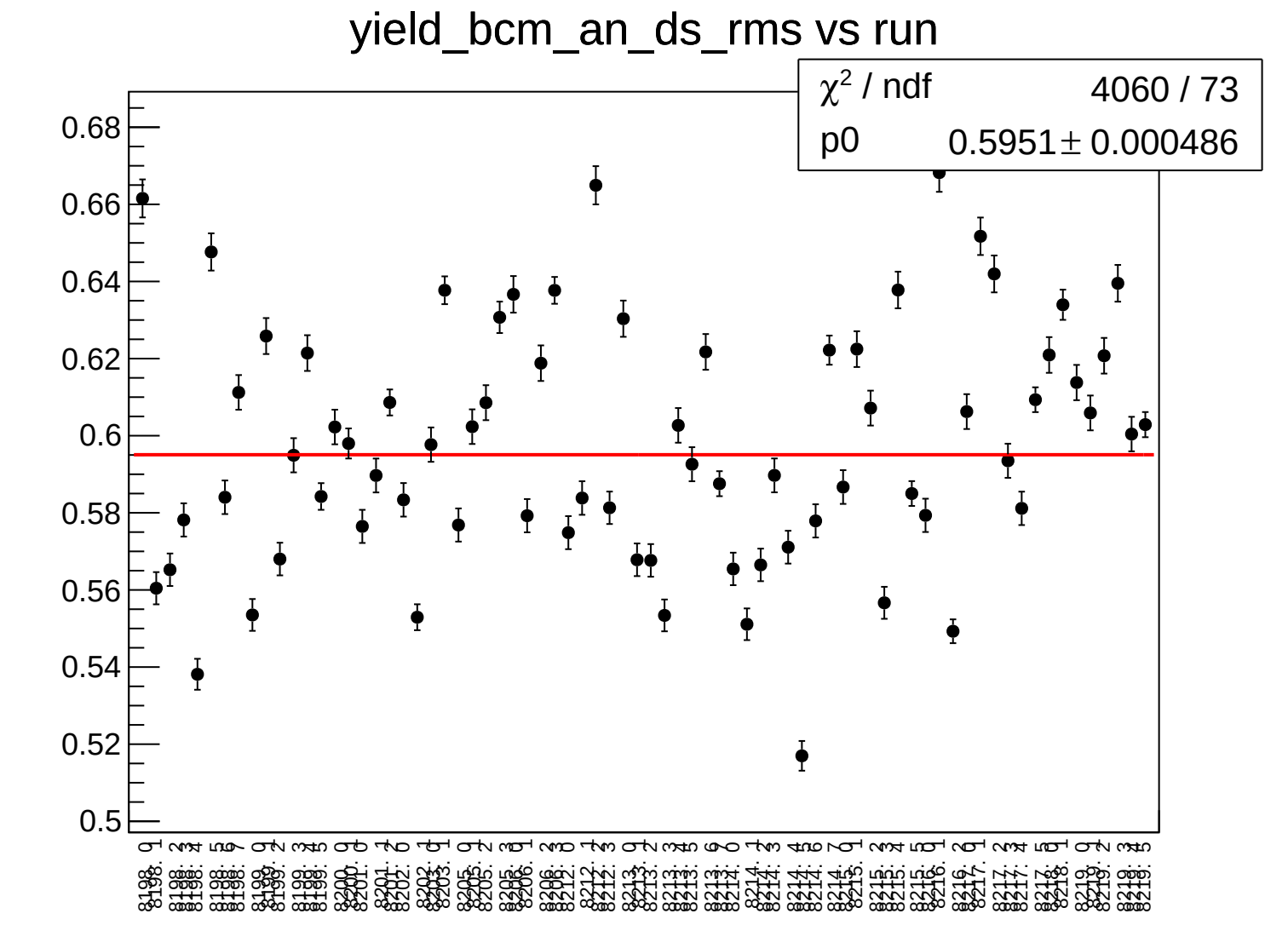

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 71.03 / 73
p0 −46.74 ± 33.92
1000
500
0
−500
−1000
pull
Entries 74
Mean 434.3
Std Dev 395.1
3
2
1
0
−1
−2

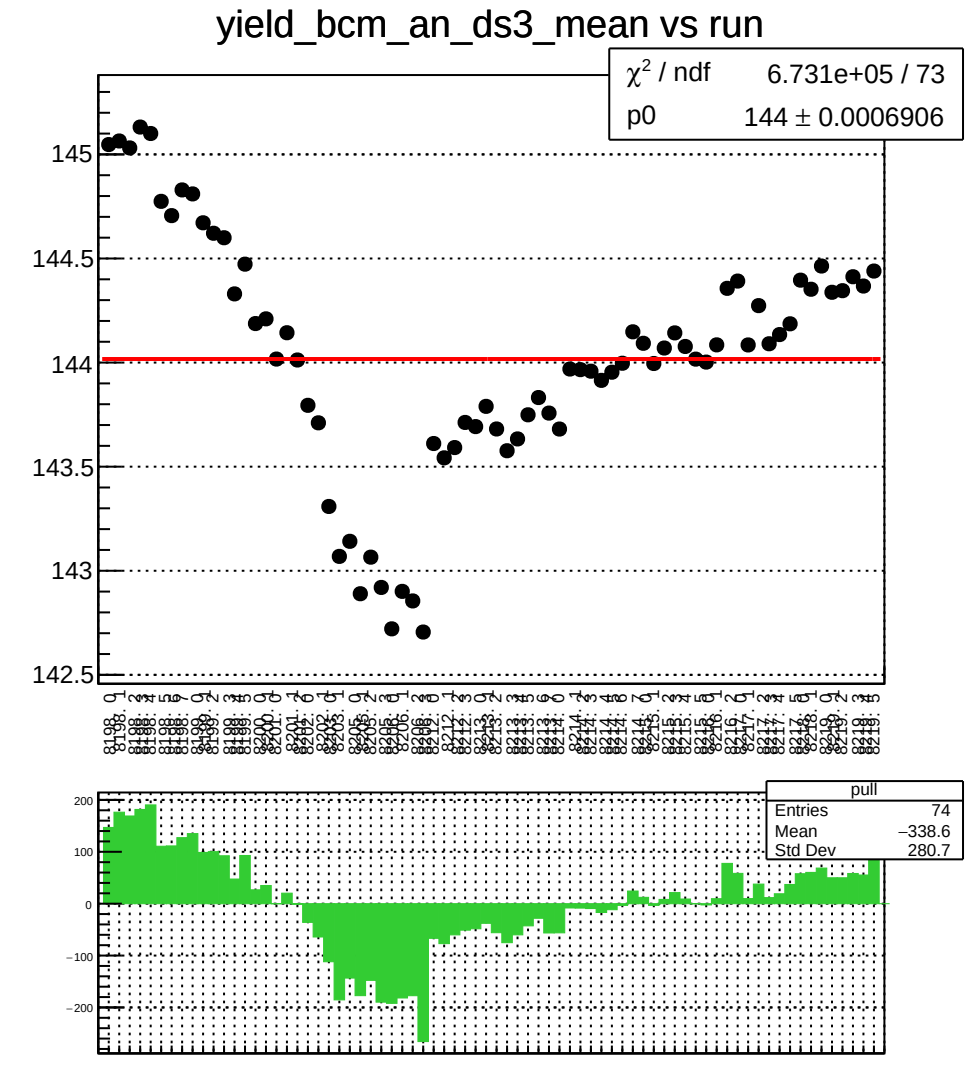

pull1D
Entries 74
Mean −0.009315
Std Dev 0.9797
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

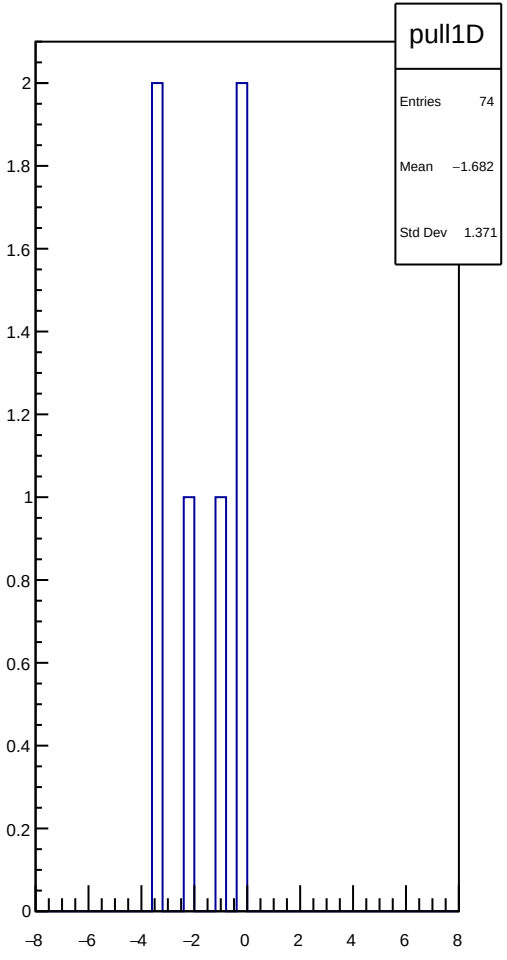

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1814 / 73
p0 29.39 ± 0.02399
33
32
31
30
29
28
27

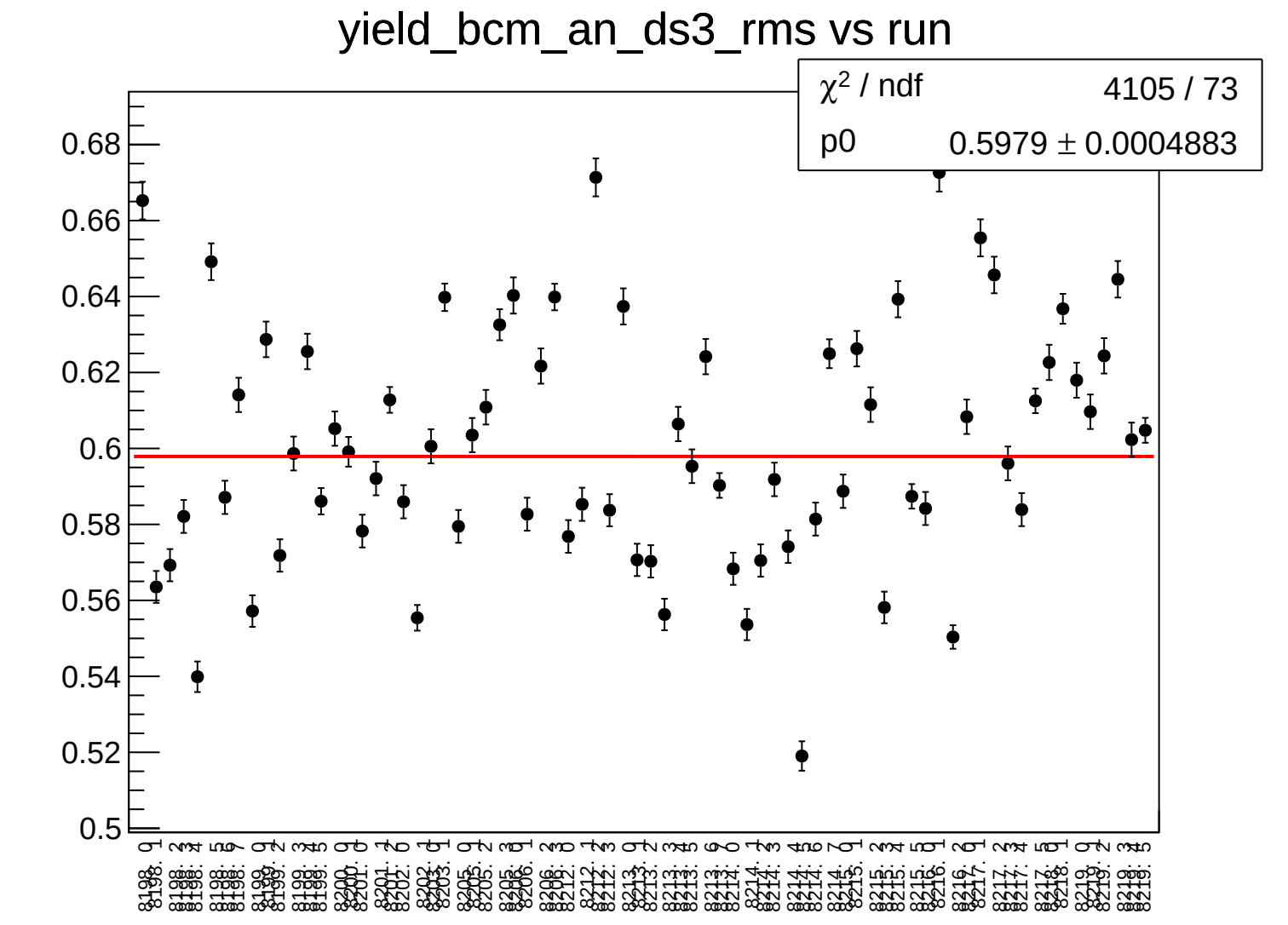

yield_bcm_an_ds_mean vs run
χ² / ndf 6.623e+05 / 73
p0 143.7 ± 0.0006873
145
144.5
144
143.5
143
142.5
pull
Entries 74
Mean −385.3
Std Dev 331.6
200
150
100
50
0
−50
−100
−150
−200
−250

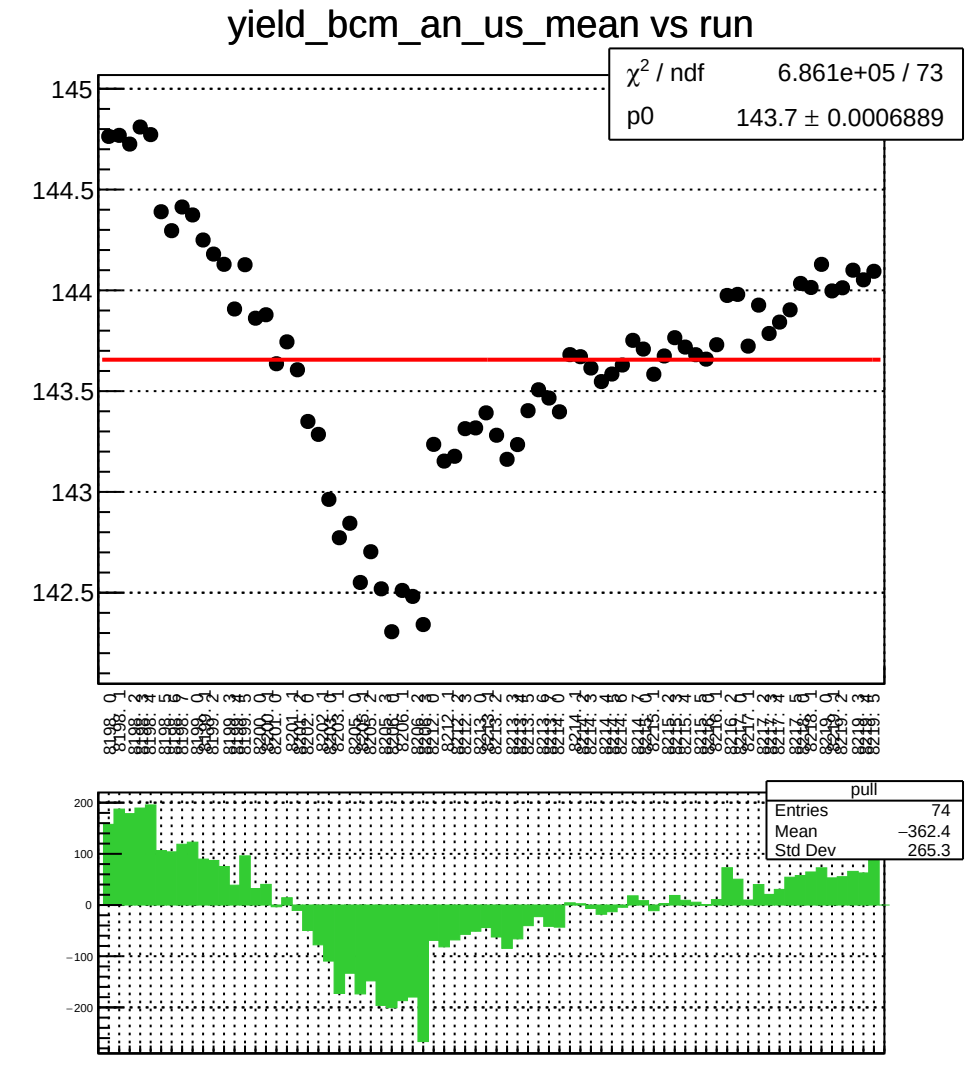

pull1D
Entries 74
Mean −1.192
Std Dev 4.08
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

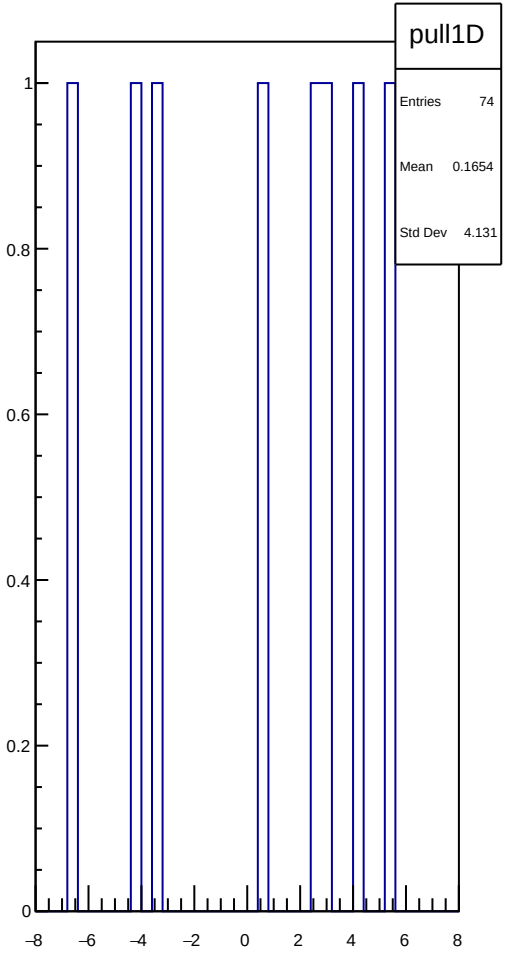

yield_bcm_an_ds_rms vs run
χ² / ndf 4060 / 73
p0 0.5951 ± 0.000486
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5

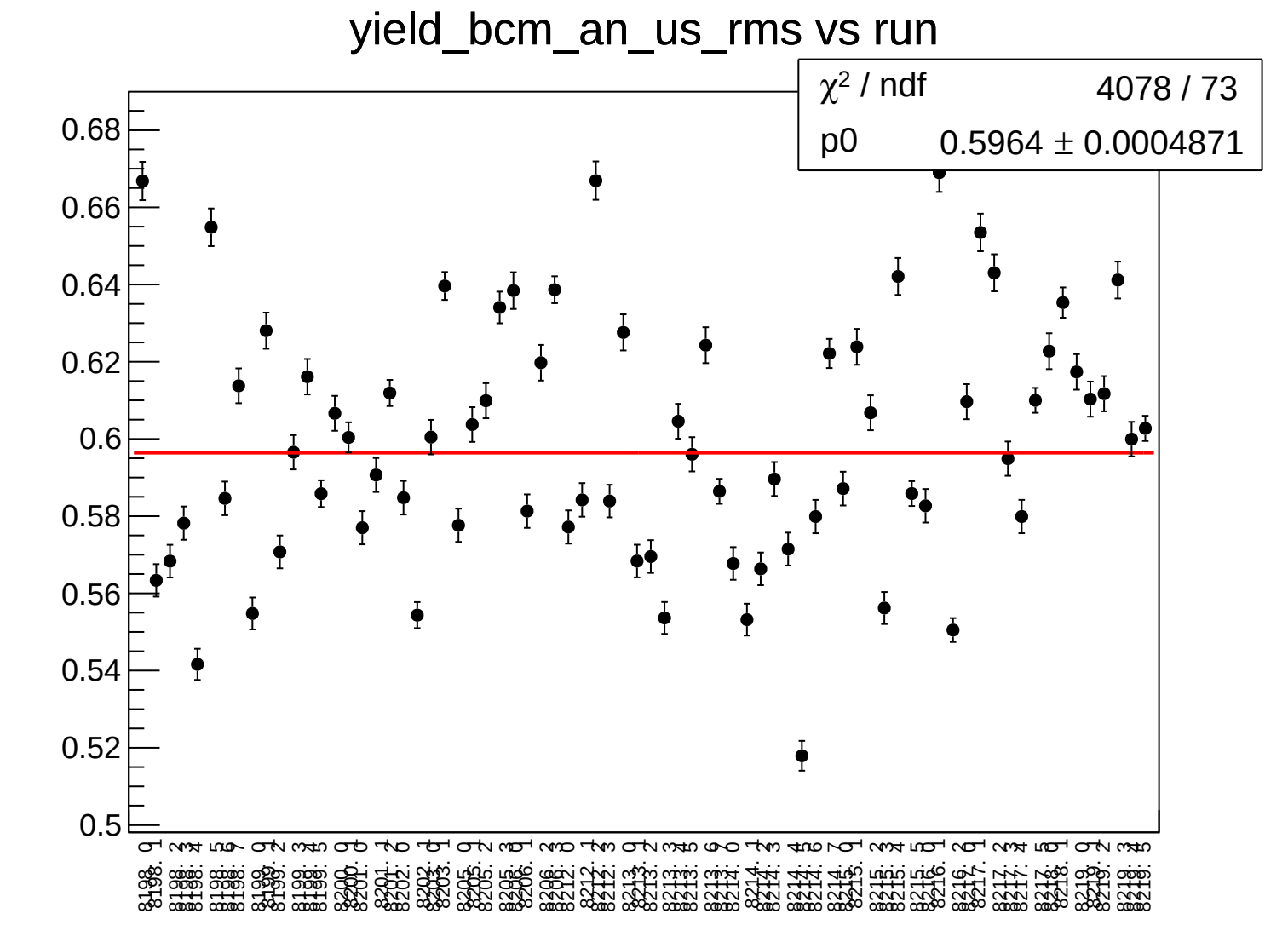

yield_bcm_an_ds3_mean vs run
χ² / ndf 6.731e+05 / 73
p0 144 ± 0.0006906
145
144.5
144
143.5
143
142.5
pull
Entries 74
Mean −338.6
Std Dev 280.7
200
100
0
−100
−200

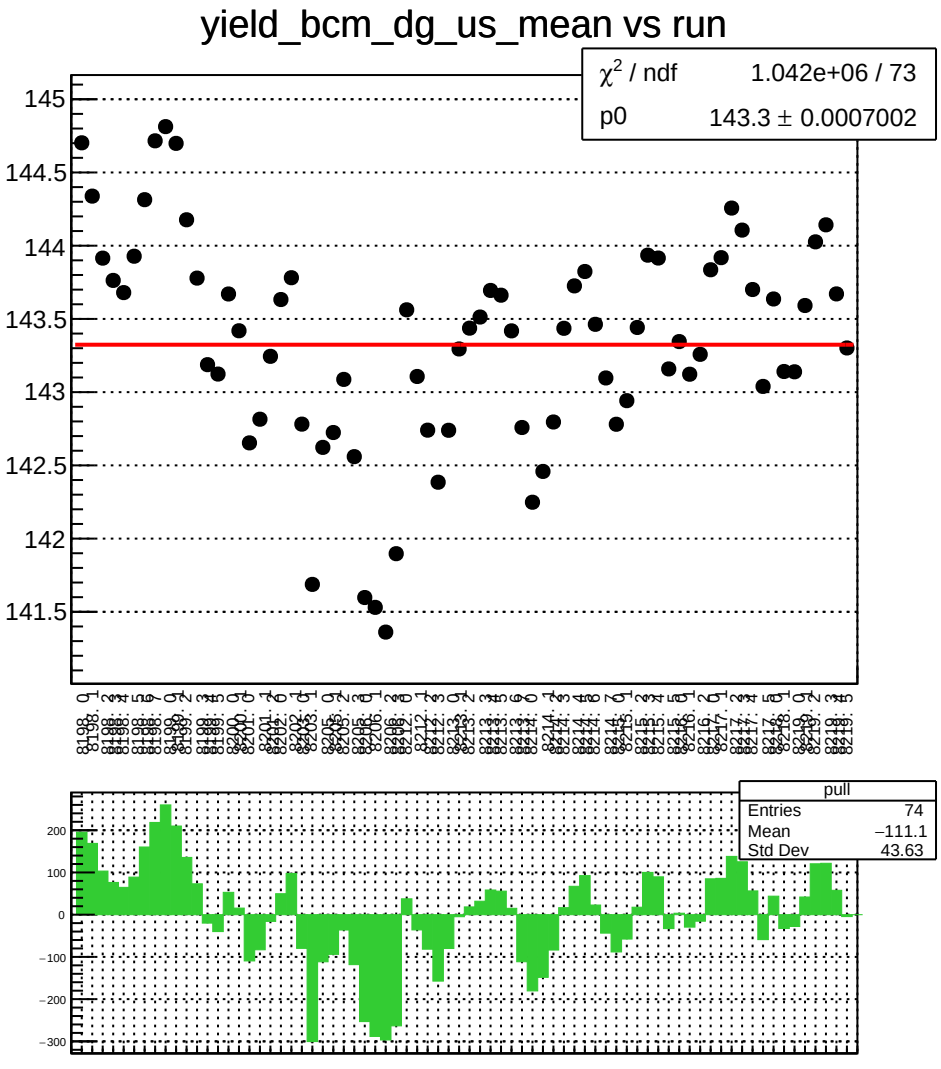

pull1D
Entries 74
Mean −1.682
Std Dev 1.371
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

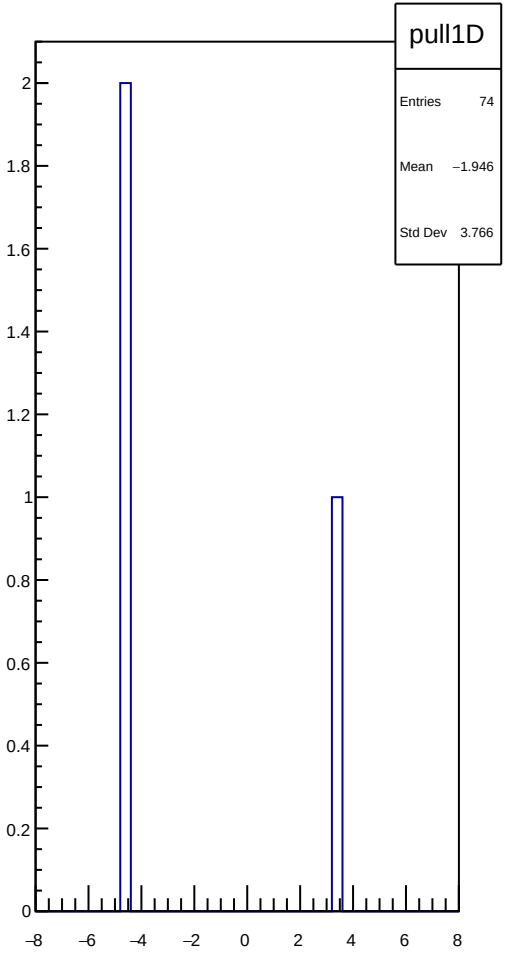

yield_bcm_an_ds3_rms vs run
χ² / ndf 4105 / 73
p0 0.5979 ± 0.0004883
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5

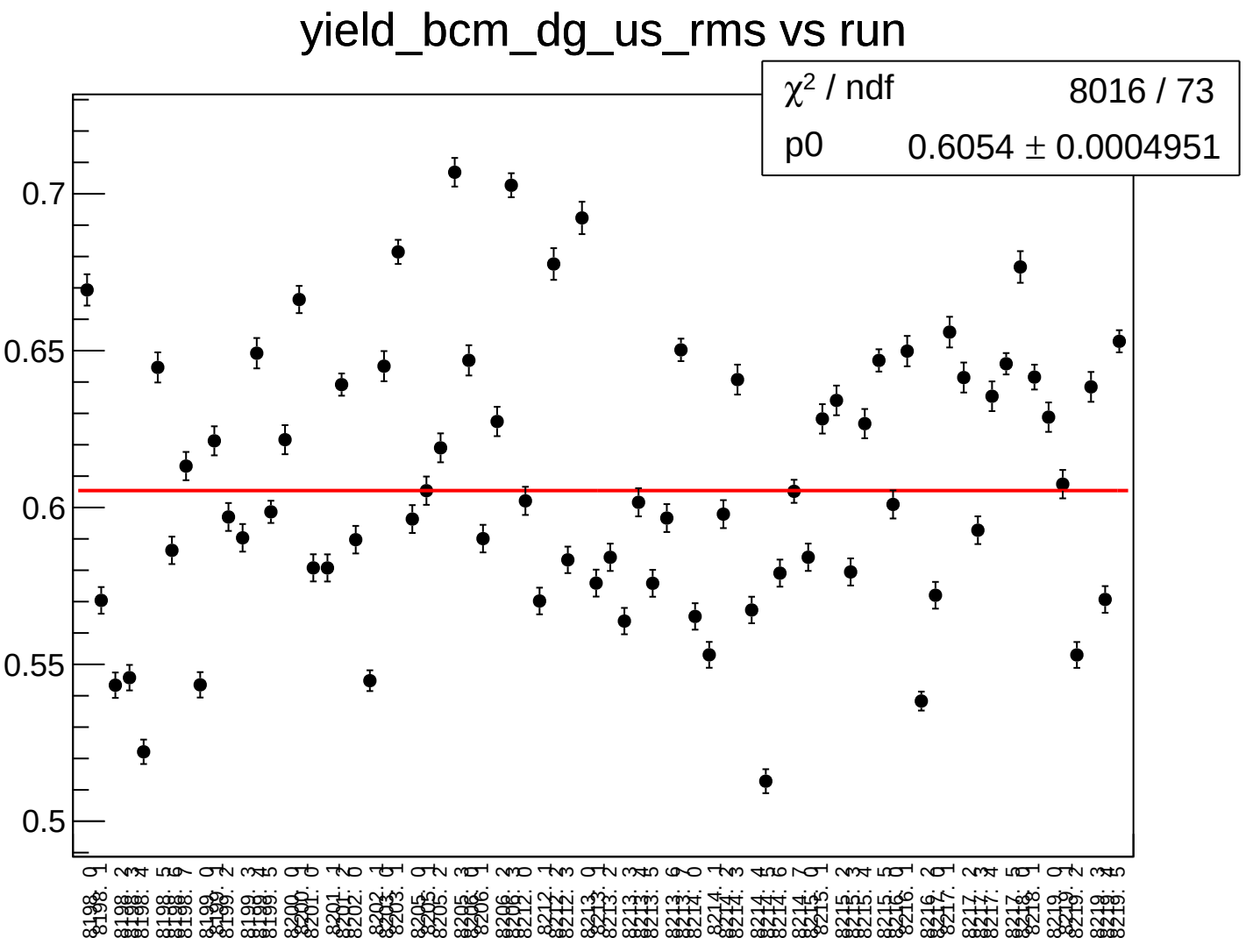

yield_bcm_an_us_mean vs run
χ² / ndf 6.861e+05 / 73
p0 143.7 ± 0.0006889
145
144.5
144
143.5
143
142.5
pull
Entries 74
Mean −362.4
Std Dev 265.3
200
100
0
−100
−200

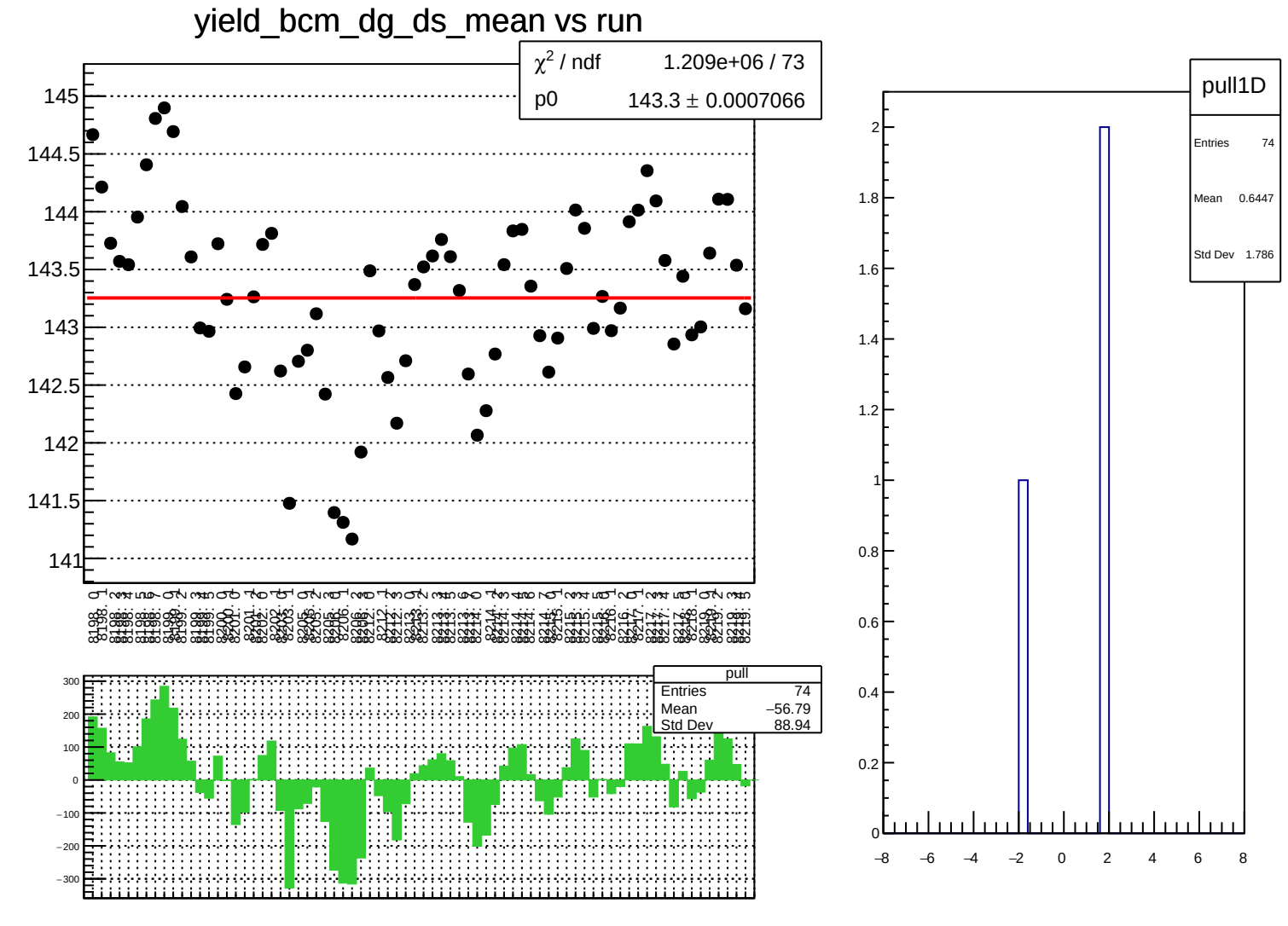

pull1D
Entries 74
Mean 0.1654
Std Dev 4.131
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

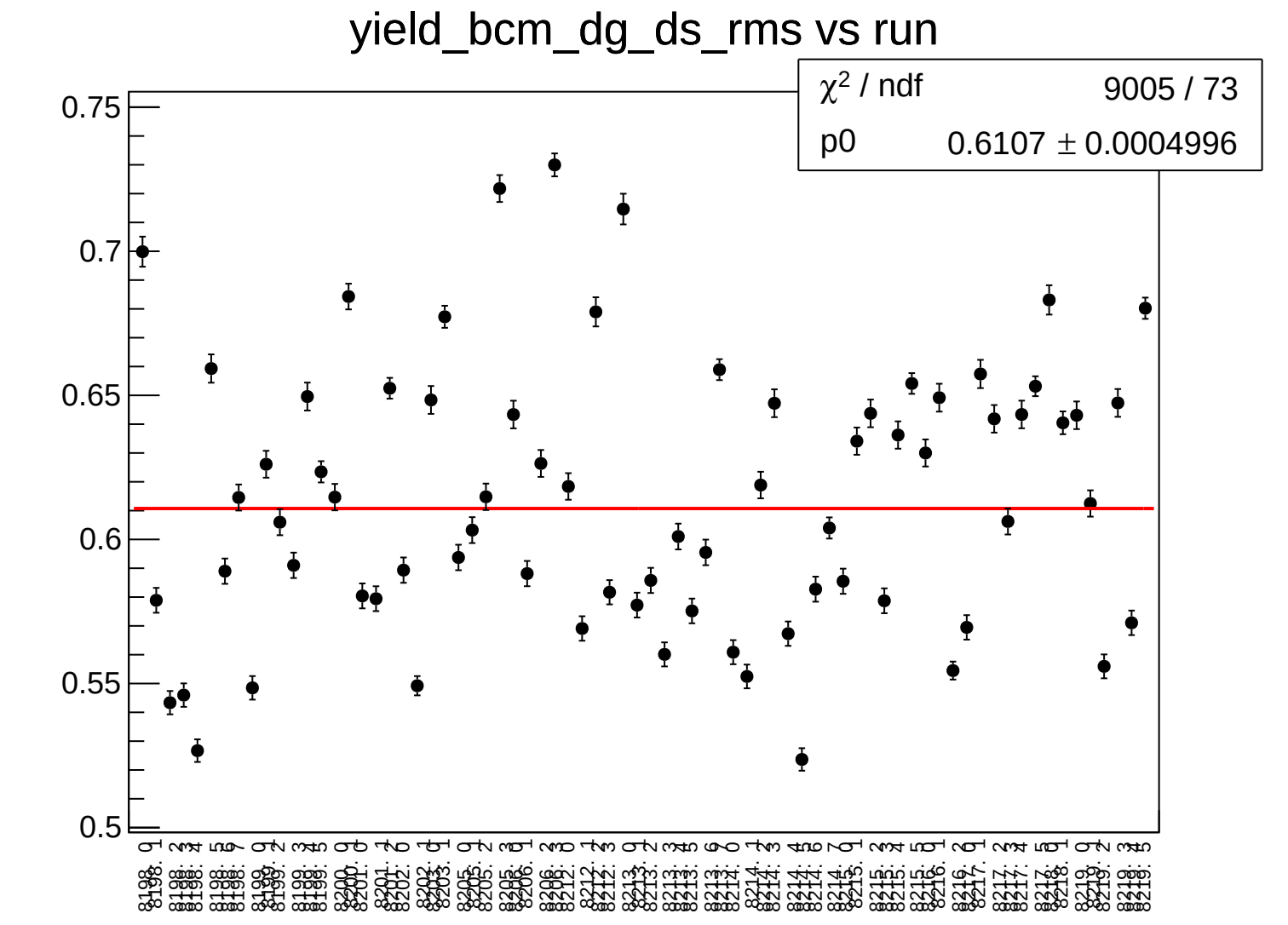

yield_bcm_an_us_rms vs run
χ² / ndf 4078 / 73
p0 0.5964 ± 0.0004871
0.68
0.66
0.64
0.62
0.6
0.58
0.56
0.54
0.52
0.5

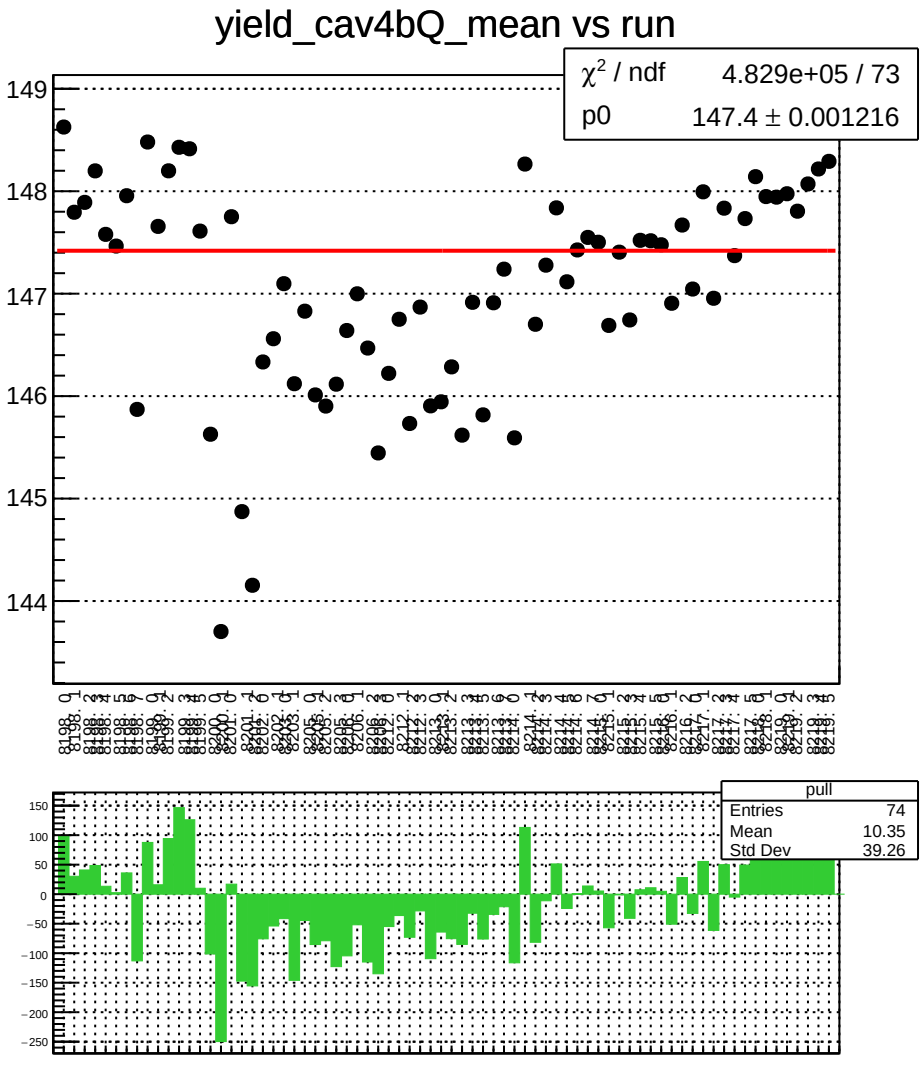

yield_bcm_dg_us_mean vs run
χ² / ndf 1.042e+06 / 73
p0 143.3 ± 0.0007002
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 74
Mean −111.1
Std Dev 43.63
200
100
0
−100
−200
−300

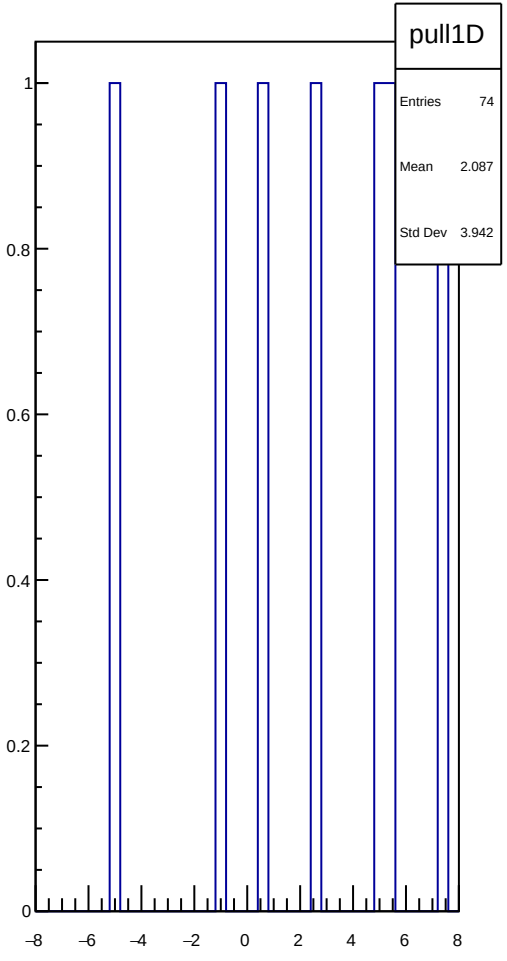

pull1D
Entries 74
Mean −1.946
Std Dev 3.766
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

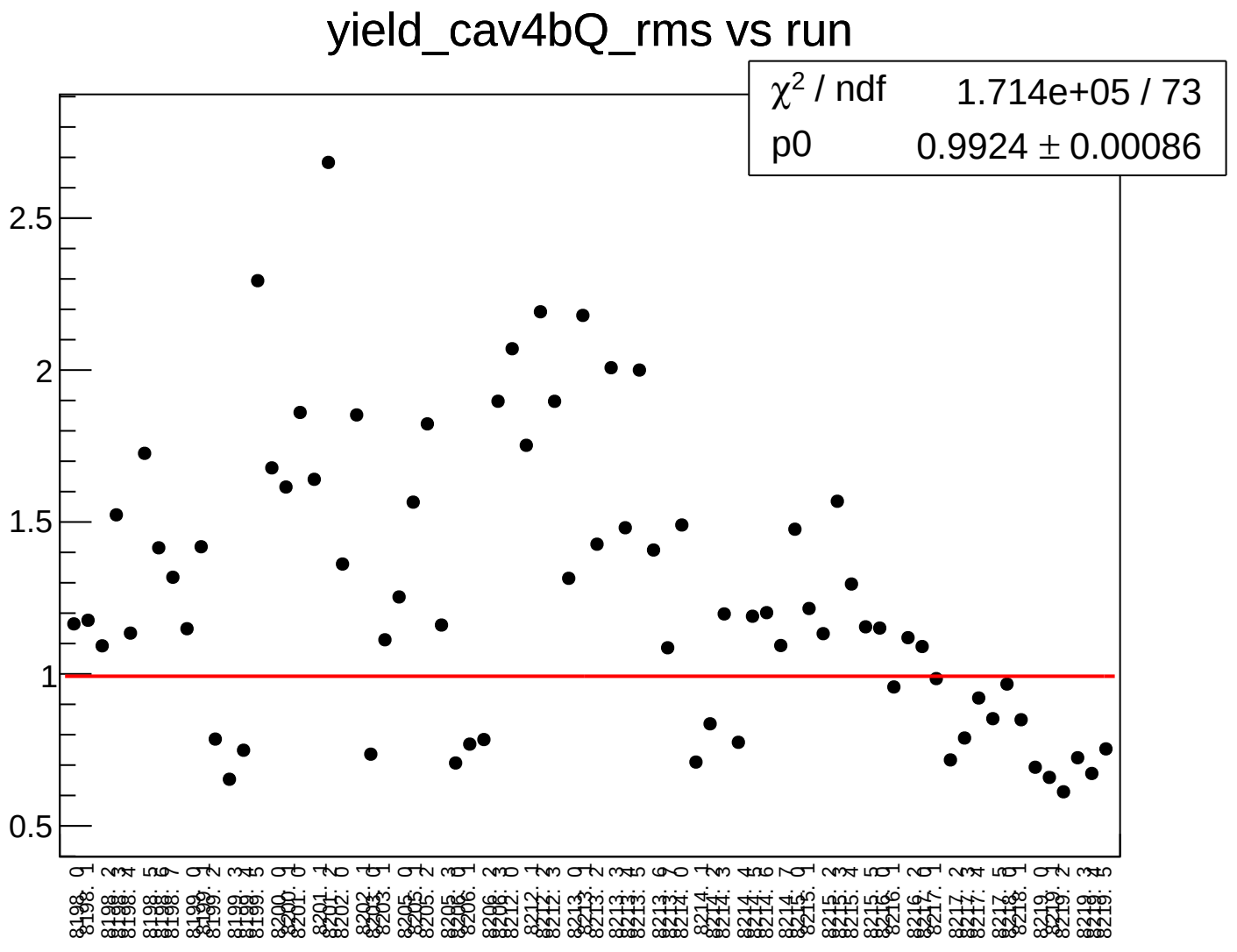

yield_bcm_dg_us_rms vs run
χ² / ndf 8016 / 73
p0 0.6054 ± 0.0004951
0.7
0.65
0.6
0.55
0.5

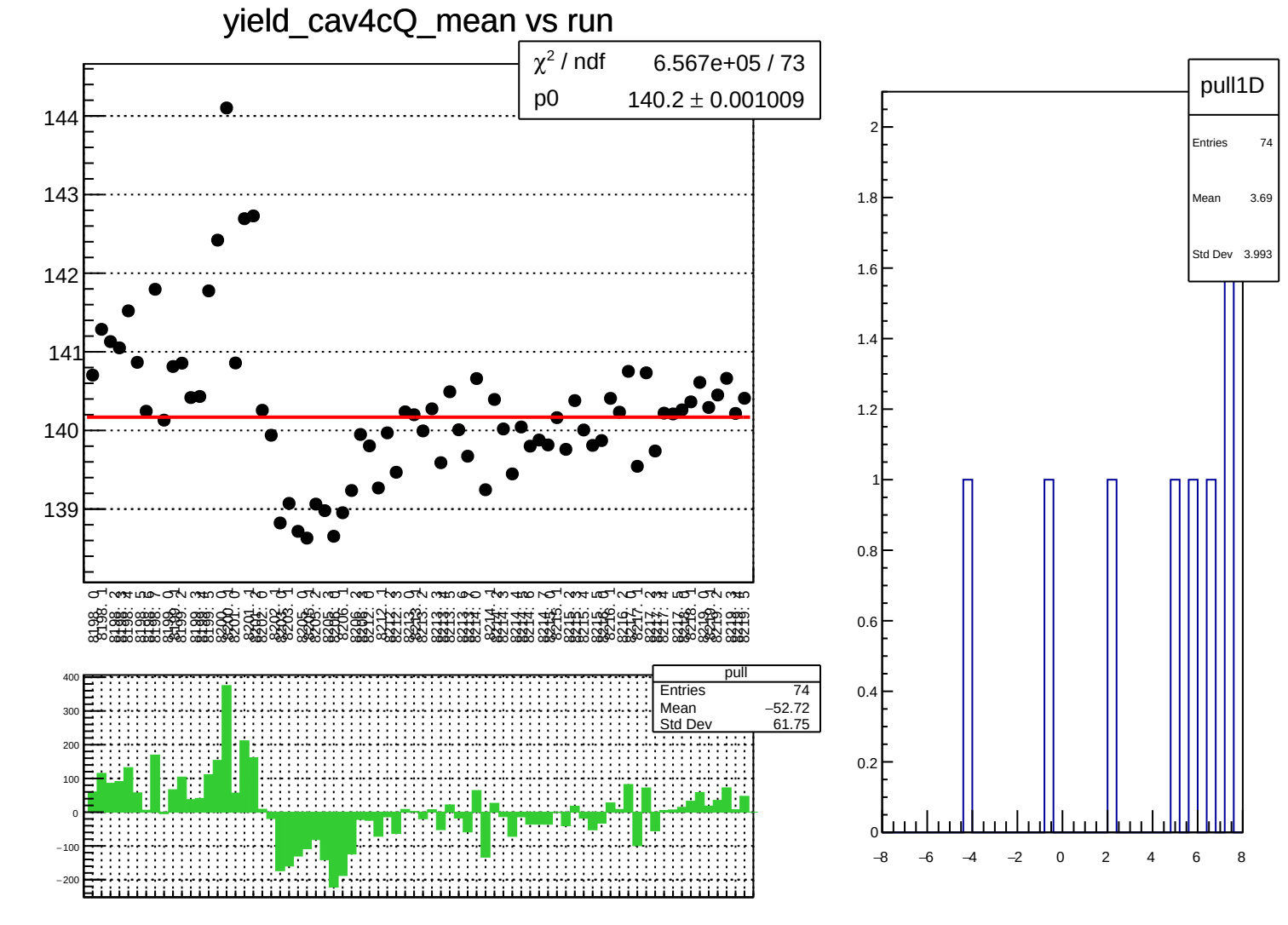

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.209e+06 / 73
p0 143.3 ± 0.0007066
145
144.5
144
143.5
143
142.5
142
141.5
141
pull
Entries 74
Mean −56.79
Std Dev 88.94
300
200
100
0
−100
−200
−300
pull1D
Entries 74
Mean 0.6447
Std Dev 1.786
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

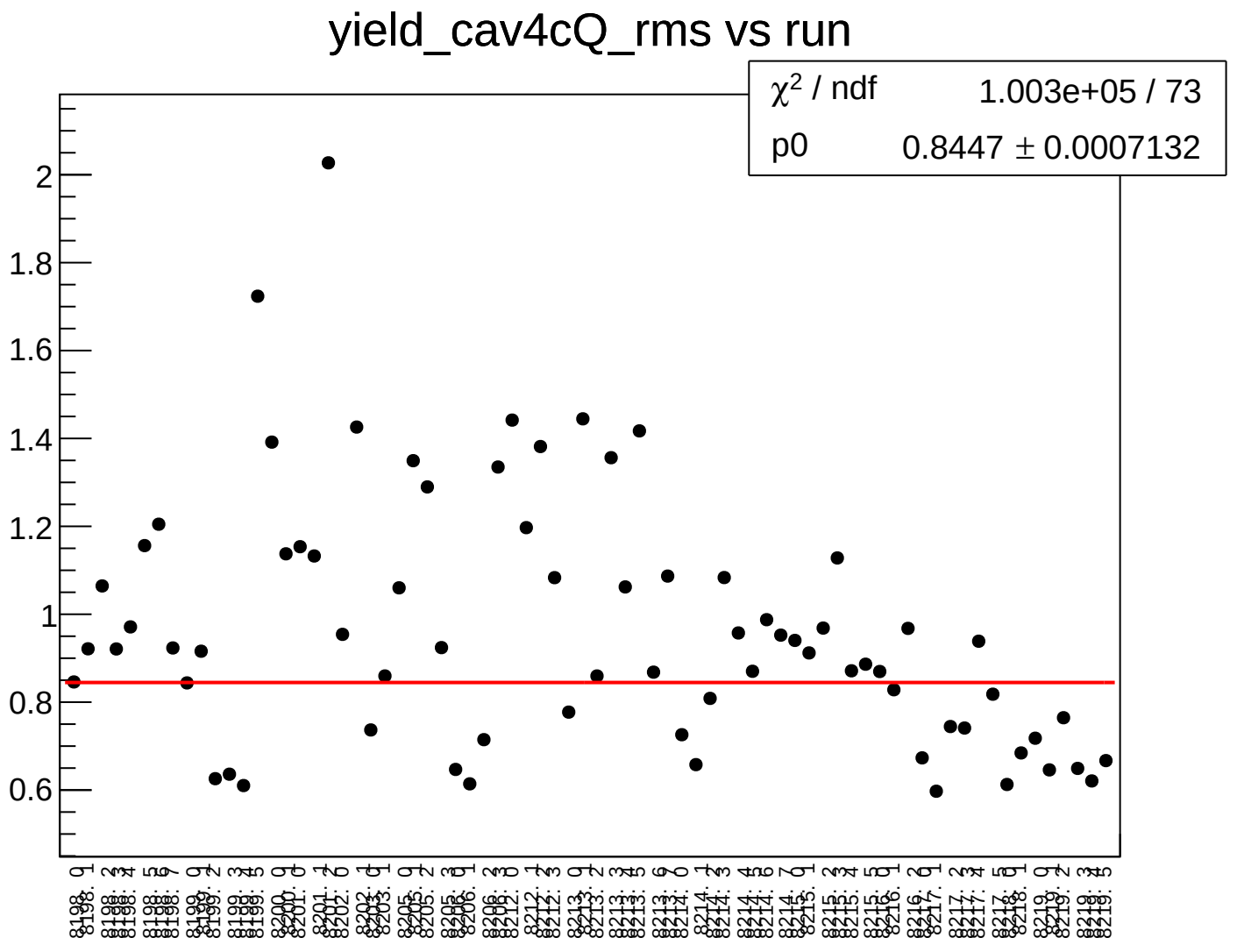

yield_bcm_dg_ds_rms vs run
χ² / ndf 9005 / 73
p0 0.6107 ± 0.0004996
0.75
0.7
0.65
0.6
0.55
0.5

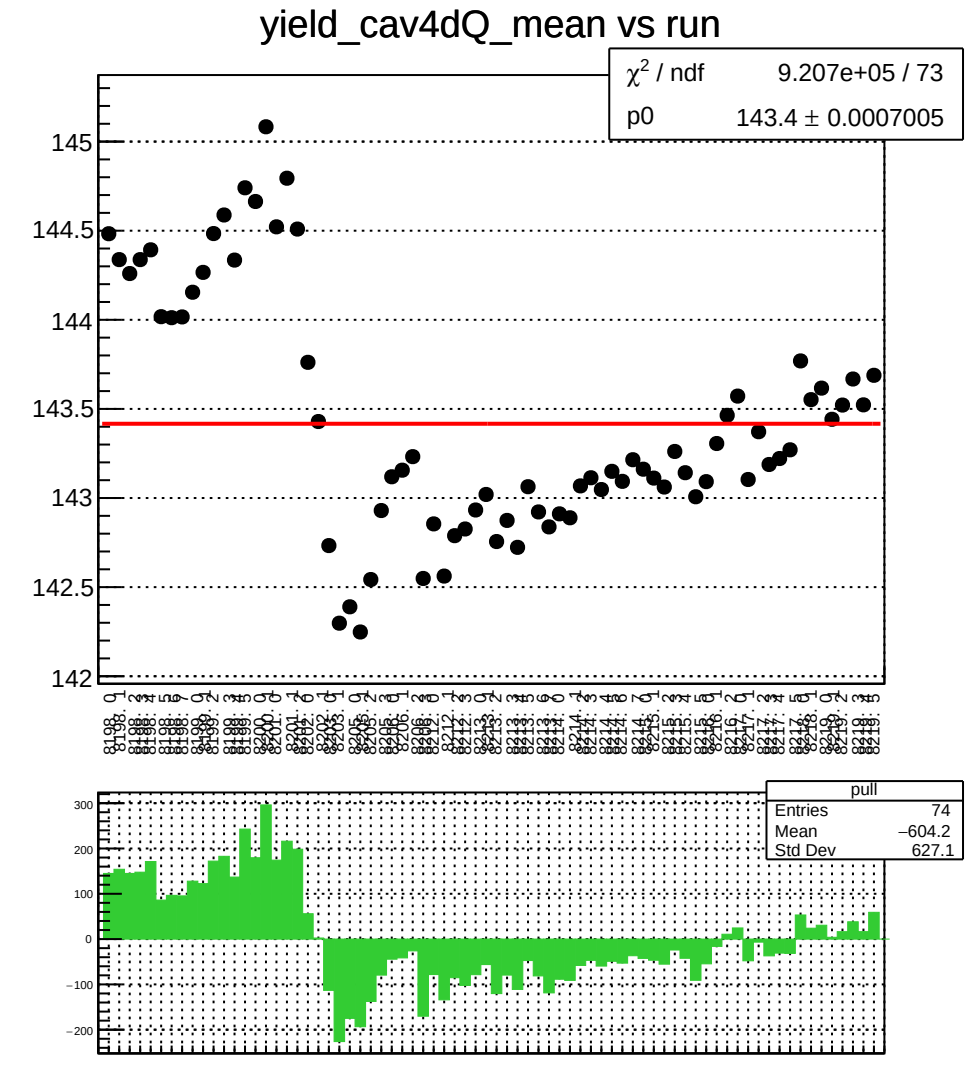

yield_cav4bQ_mean vs run
χ² / ndf 4.829e+05 / 73
p0 147.4 ± 0.001216
149
148
147
146
145
144
pull
Entries 74
Mean 10.35
Std Dev 39.26
150
100
50
0
−50
−100
−150
−200
−250

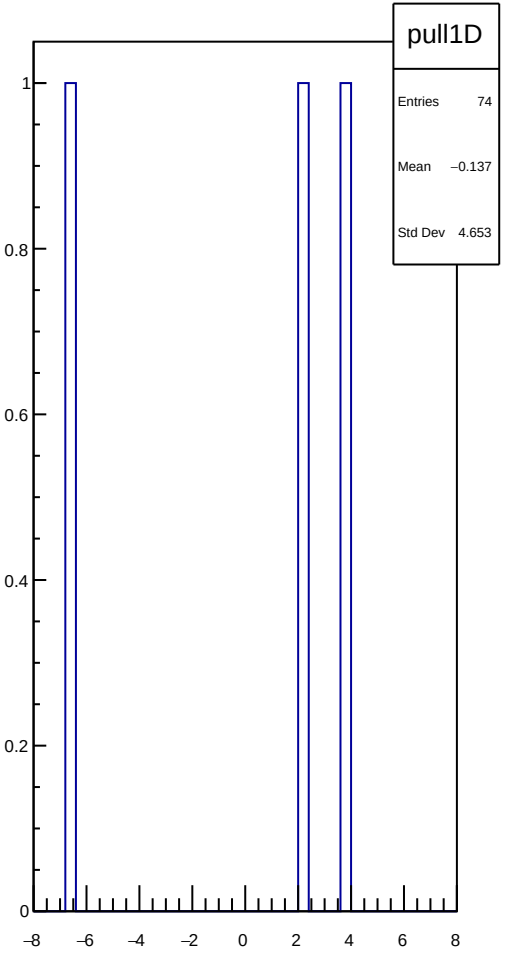

pull1D
Entries 74
Mean 2.087
Std Dev 3.942
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

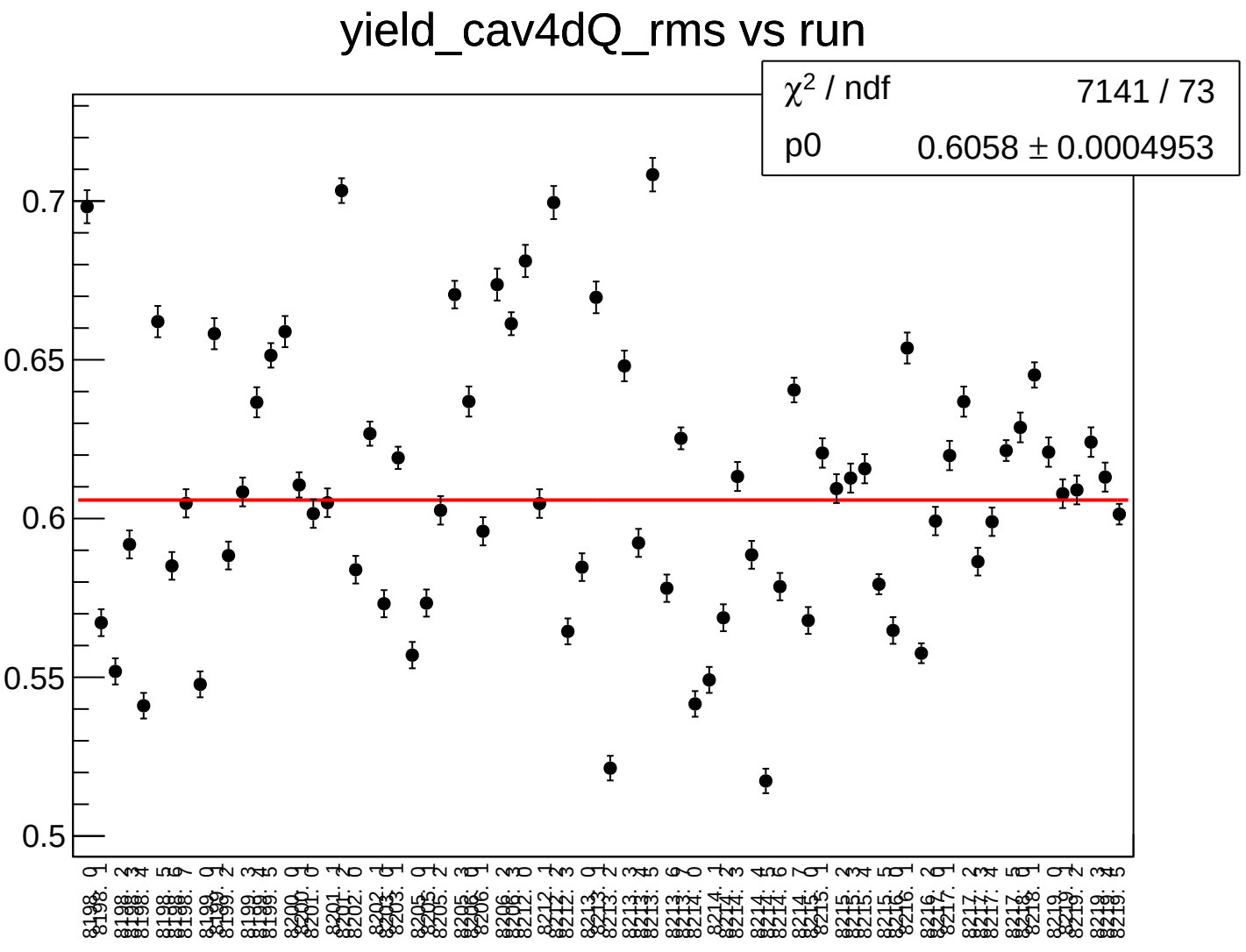

yield_cav4bQ_rms vs run
χ^2 / ndf 1.714e+05 / 73
p0 0.9924 ± 0.00086
2.5
2
1.5
1
0.5

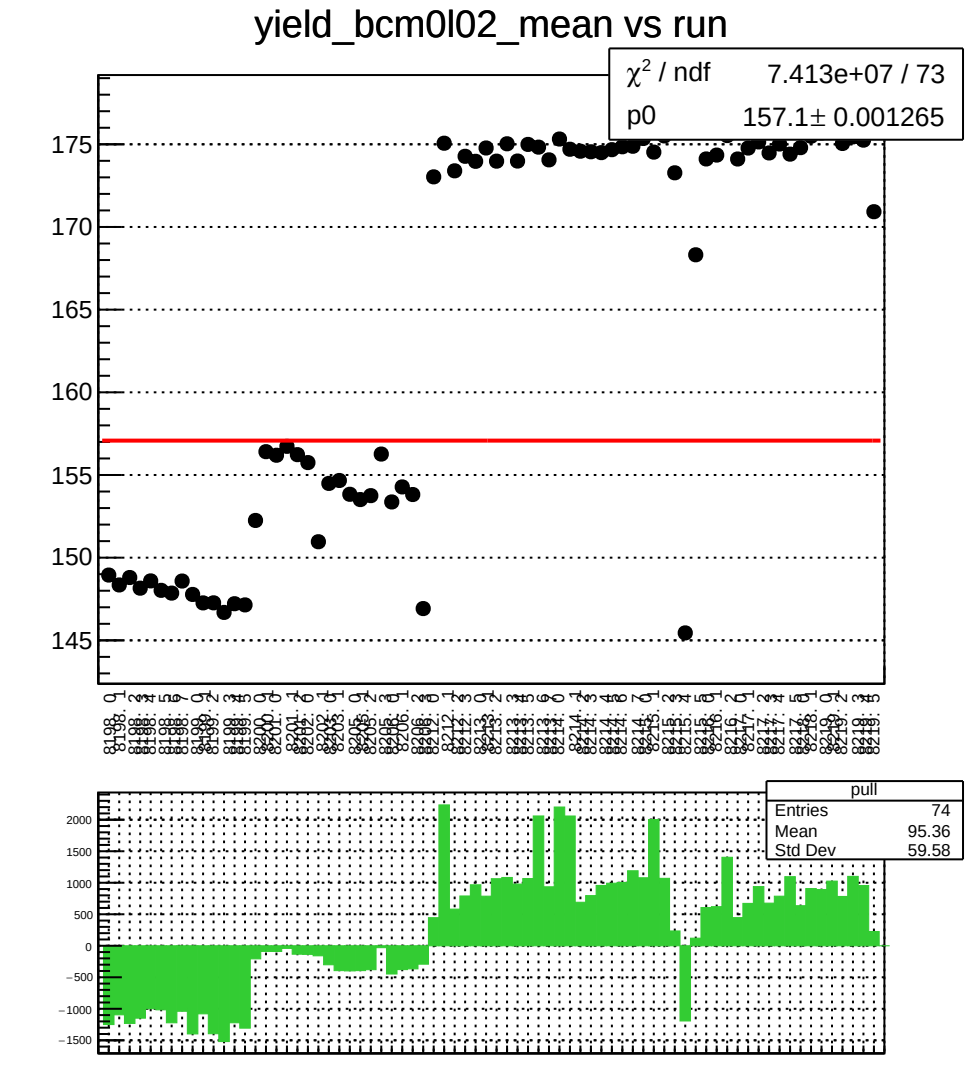

yield_cav4cQ_mean vs run
χ² / ndf 6.567e+05 / 73
p0 140.2 ± 0.001009
144
143
142
141
140
139
pull
Entries 74
Mean −52.72
Std Dev 61.75
400
300
200
100
0
−100
−200
pull1D
Entries 74
Mean 3.69
Std Dev 3.993
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

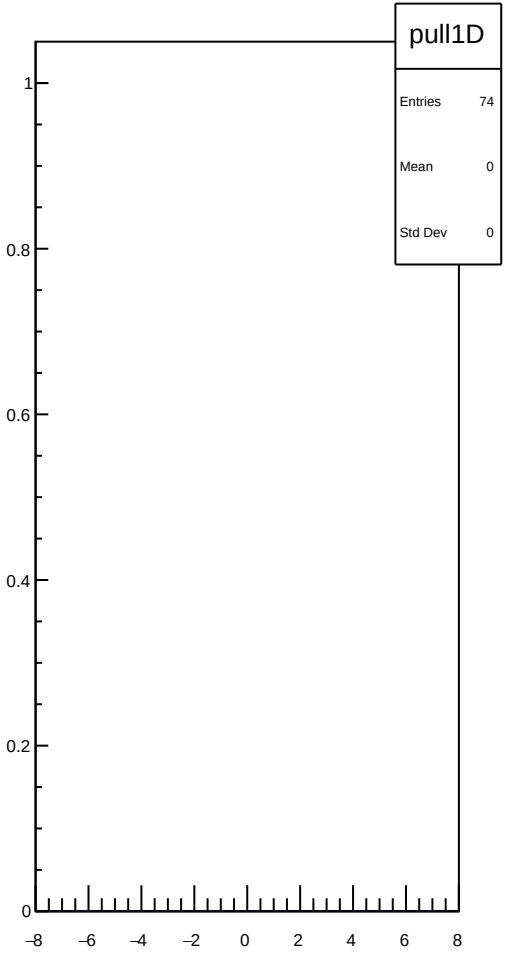

yield_cav4cQ_rms vs run
χ² / ndf 1.003e+05 / 73
p0 0.8447 ± 0.0007132
2
1.8
1.6
1.4
1.2
1
0.8
0.6

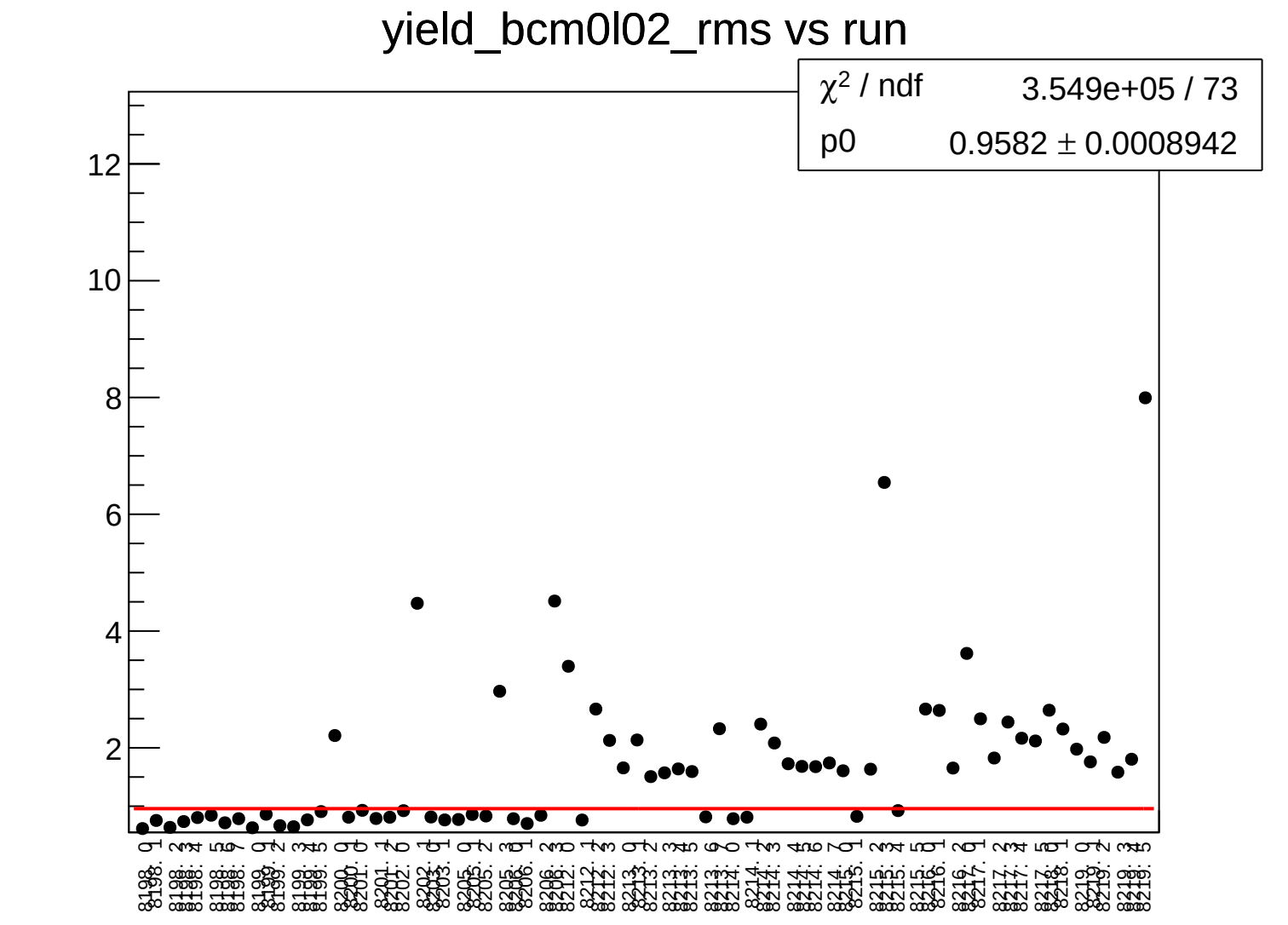

yield_cav4dQ_mean vs run
χ² / ndf 9.207e+05 / 73
p0 143.4 ± 0.0007005
145
144.5
144
143.5
143
142.5
142
pull
Entries 74
Mean −604.2
Std Dev 627.1
300
200
100
0
−100
−200

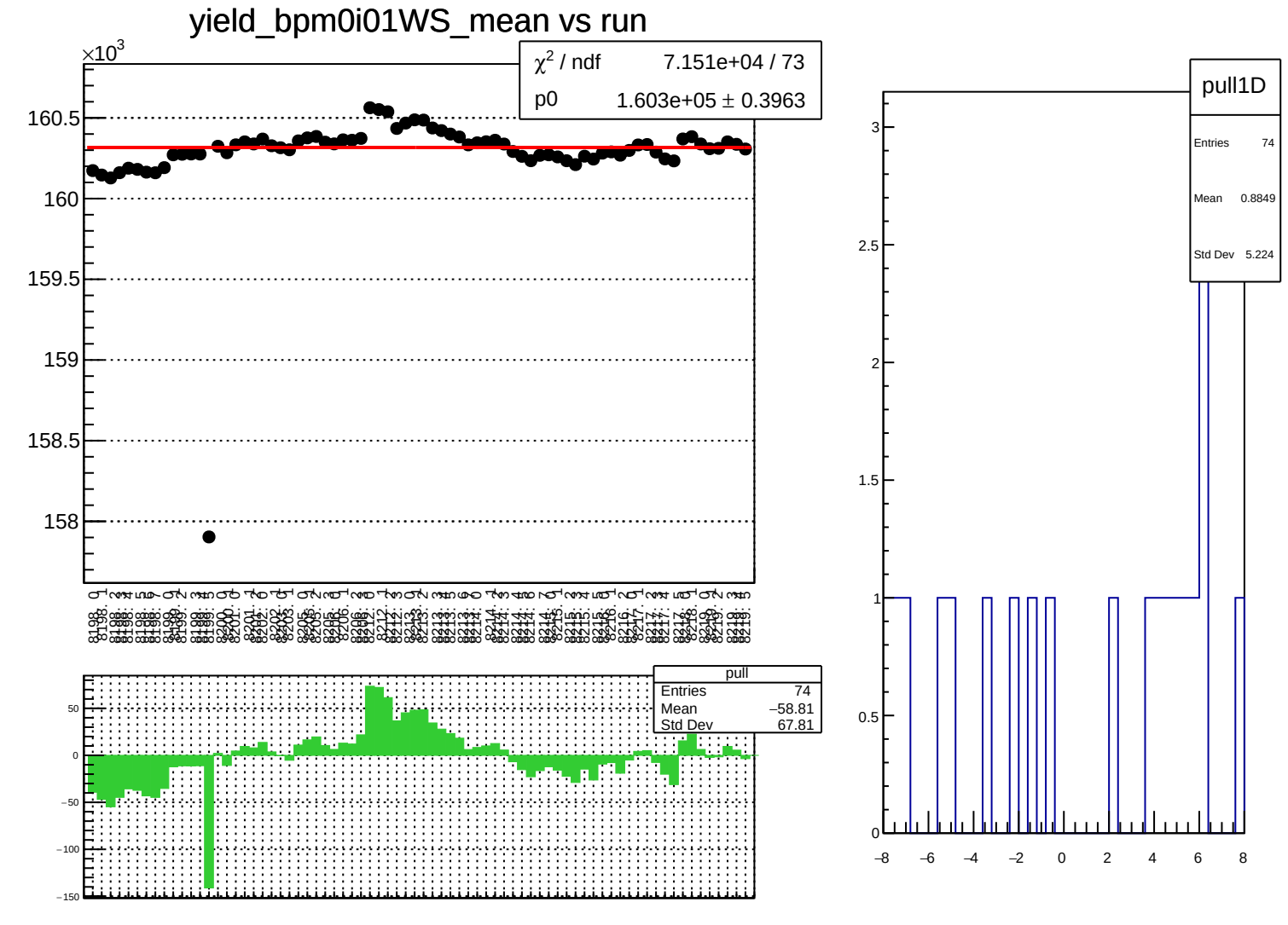

pull1D
Entries 74
Mean −0.137
Std Dev 4.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

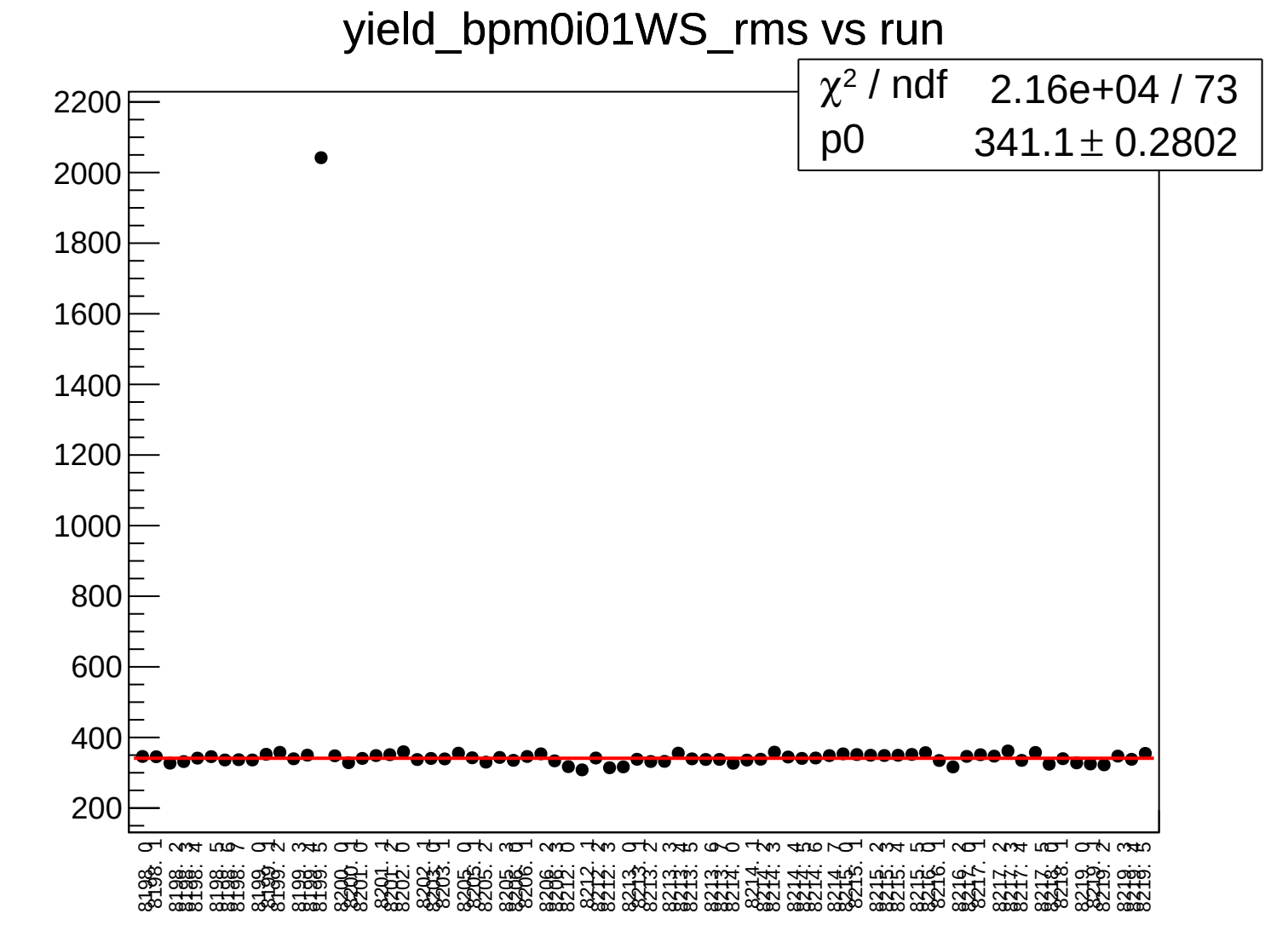

yield_cav4dQ_rms vs run
χ² / ndf 7141 / 73
p0 0.6058 ± 0.0004953
0.7
0.65
0.6
0.55
0.5

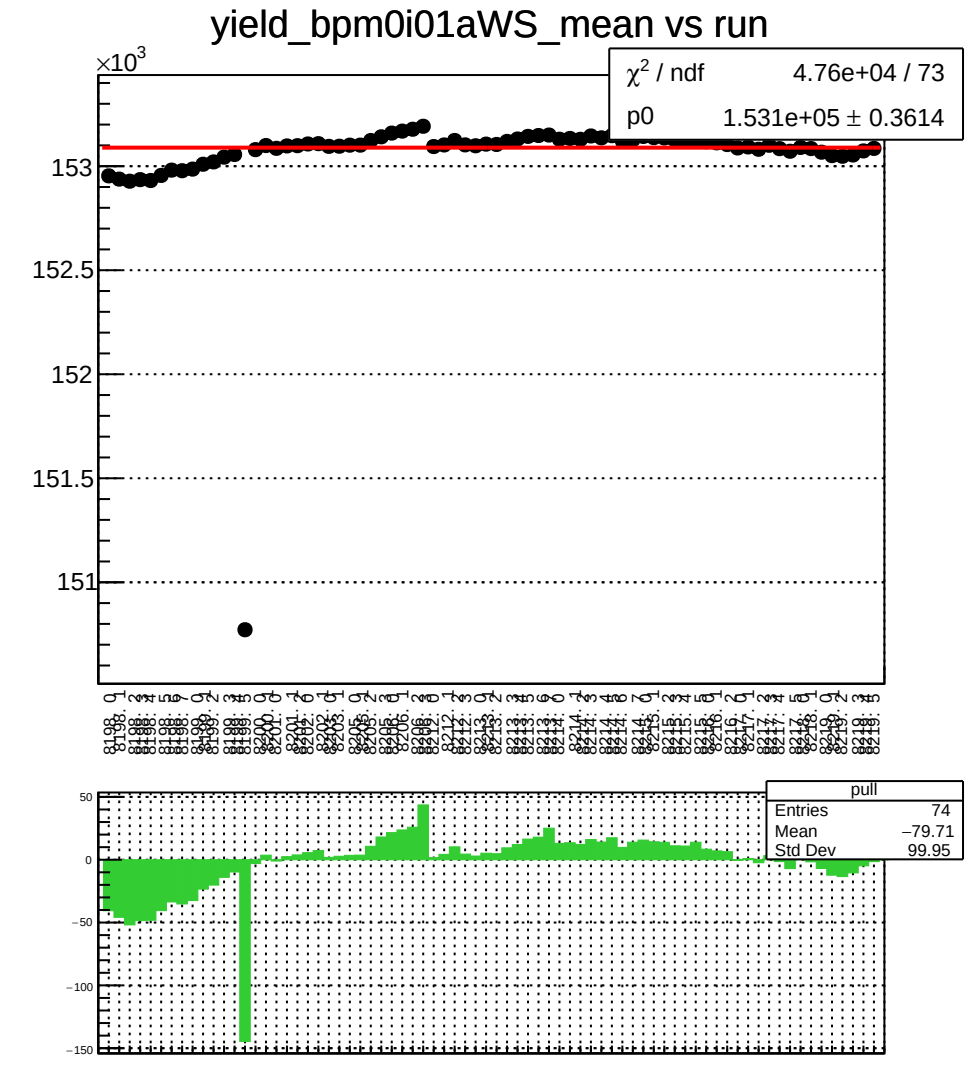

yield_bcm0l02_mean vs run
χ² / ndf 7.413e+07 / 73
p0 157.1± 0.001265
175
170
165
160
155
150
145
pull
Entries 74
Mean 95.36
Std Dev 59.58
2000
1500
1000
500
0
−500
−1000
−1500

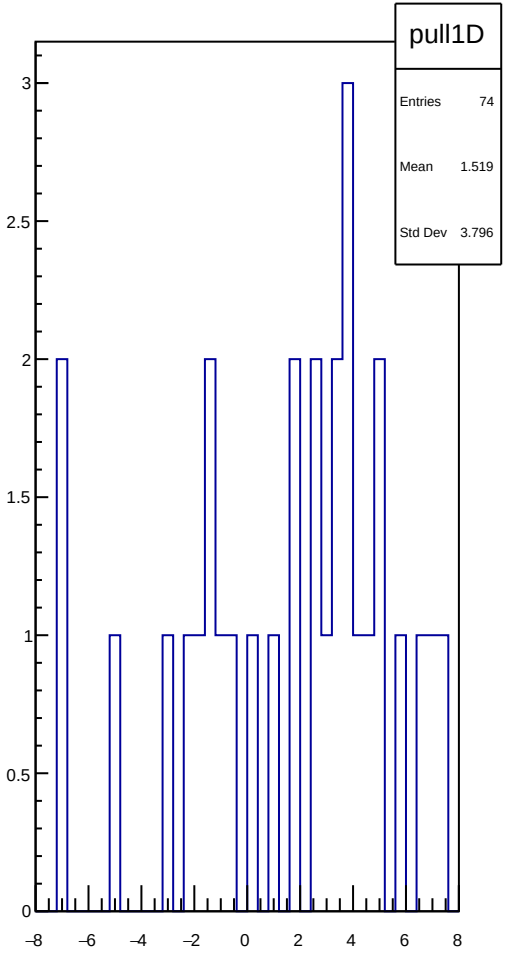

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

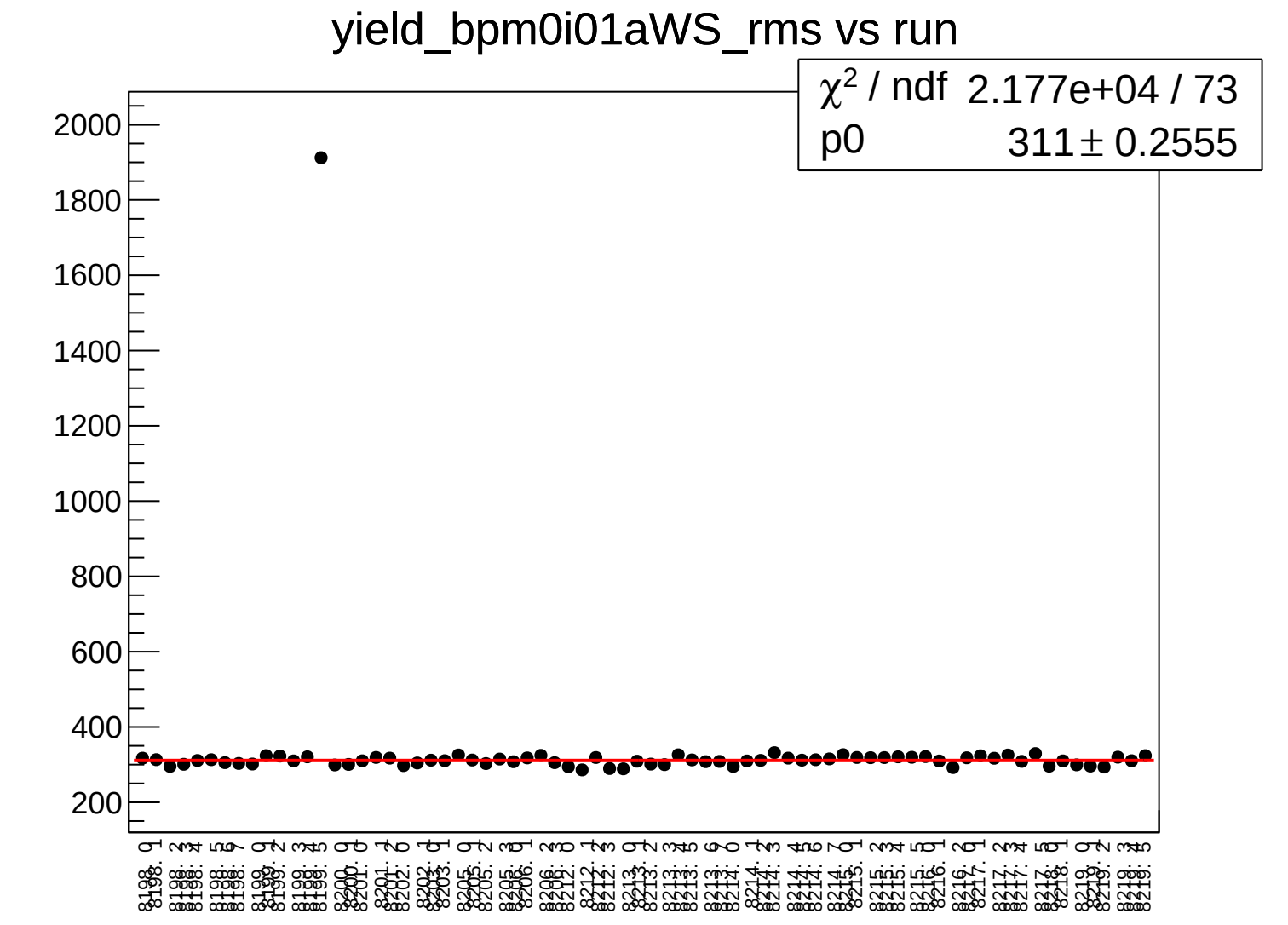

yield_bcm0l02_rms vs run
χ² / ndf 3.549e+05 / 73
p0 0.9582 ± 0.0008942
12
10
8
6
4
2

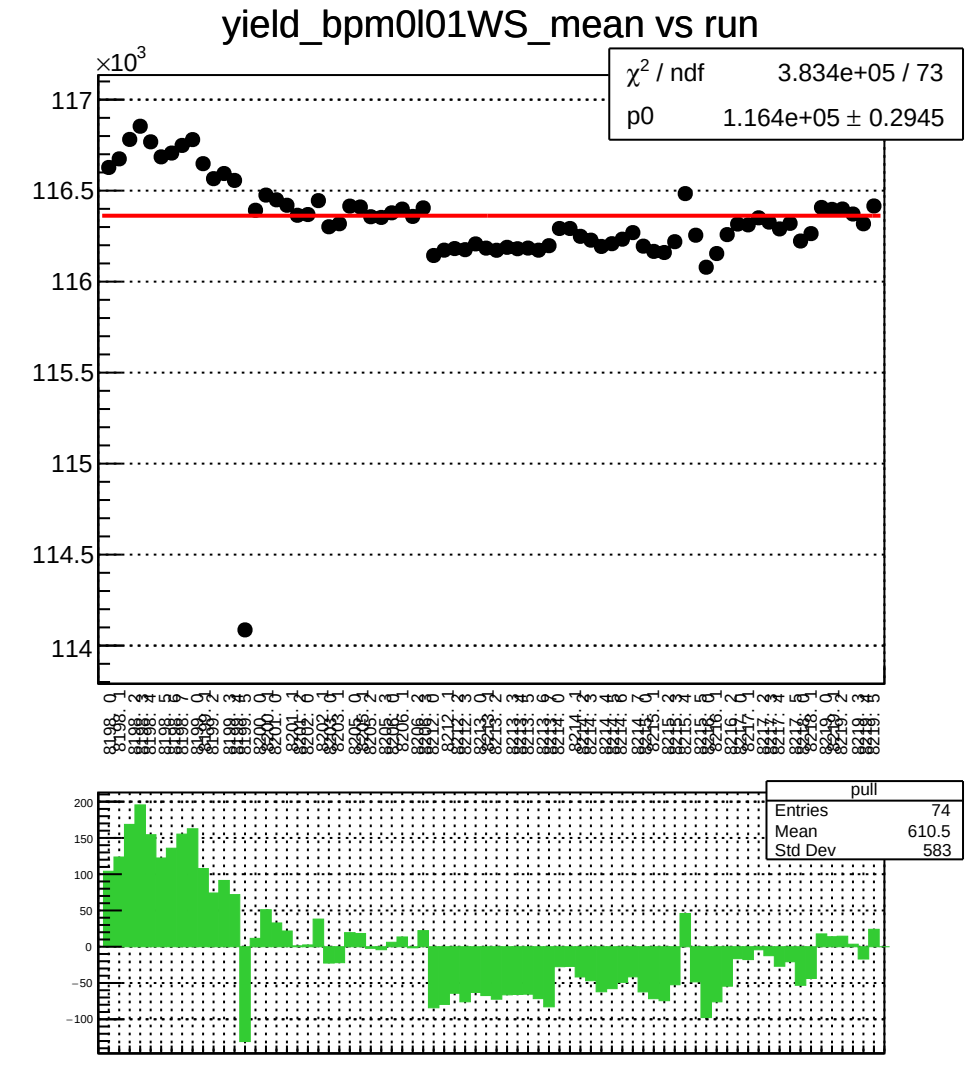

yield_bpm0i01WS_mean vs run
×10^3
χ^2 / ndf 7.151e+04 / 73
p0 1.603e+05 ± 0.3963
160.5
160
159.5
159
158.5
158
pull
Entries 74
Mean −58.81
Std Dev 67.81
50
0
−50
−100
−150
pull1D
Entries 74
Mean 0.8849
Std Dev 5.224
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

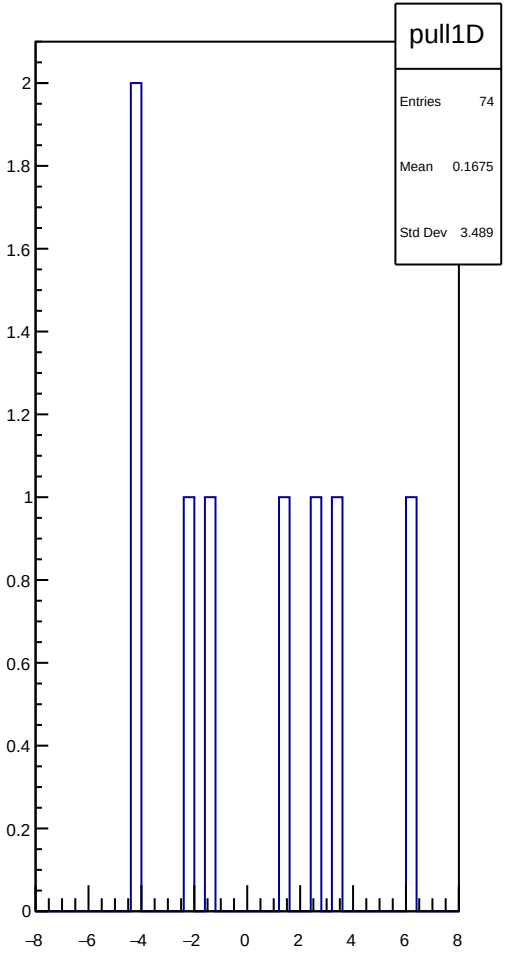

yield_bpm0i01WS_rms vs run
χ² / ndf 2.16e+04 / 73
p0 341.1 ± 0.2802
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

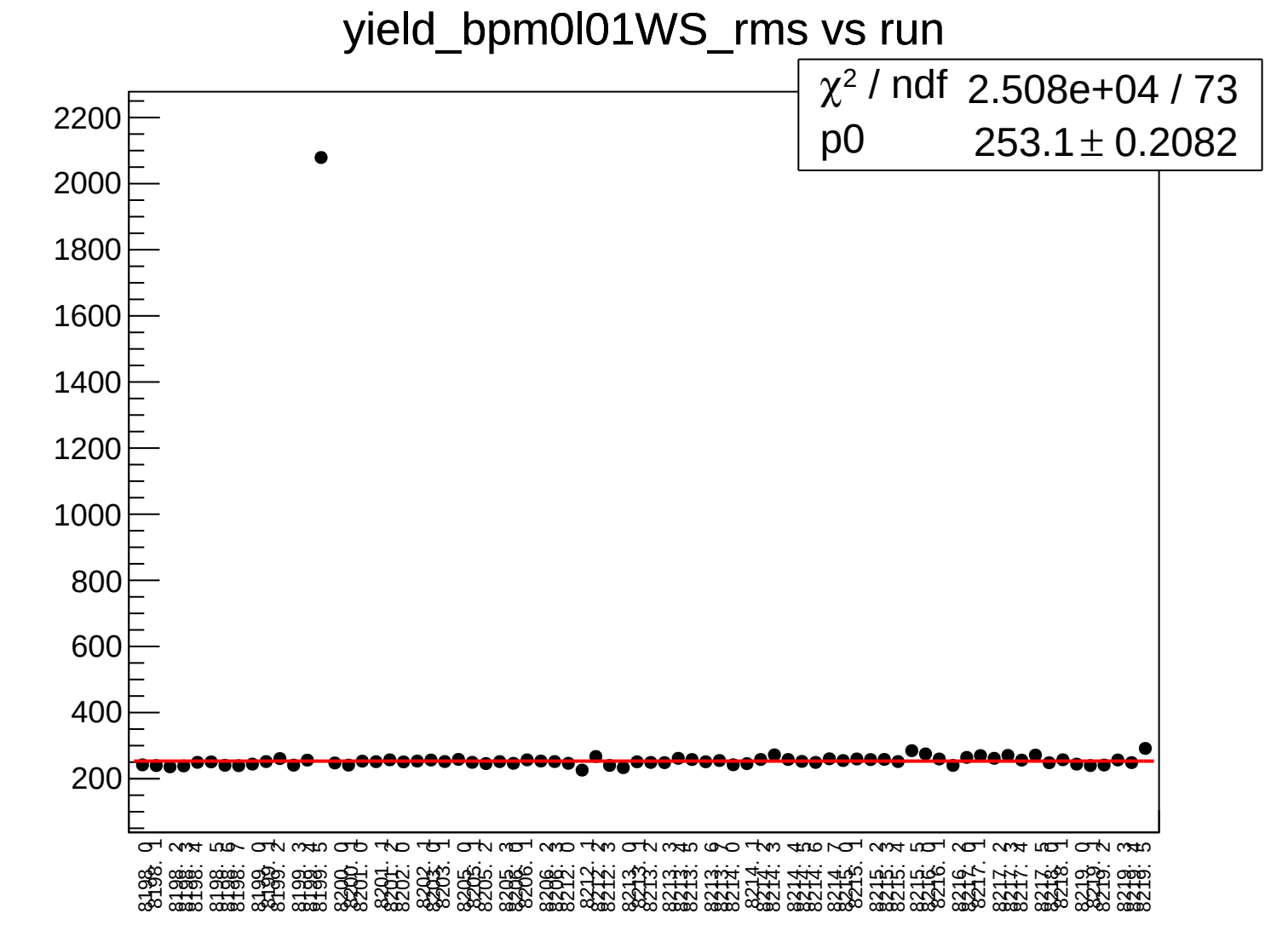

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.76e+04 / 73
p0 1.531e+05 ± 0.3614
153
152.5
152
151.5
151
pull
Entries 74
Mean −79.71
Std Dev 99.95
50
0
−50
−100
−150

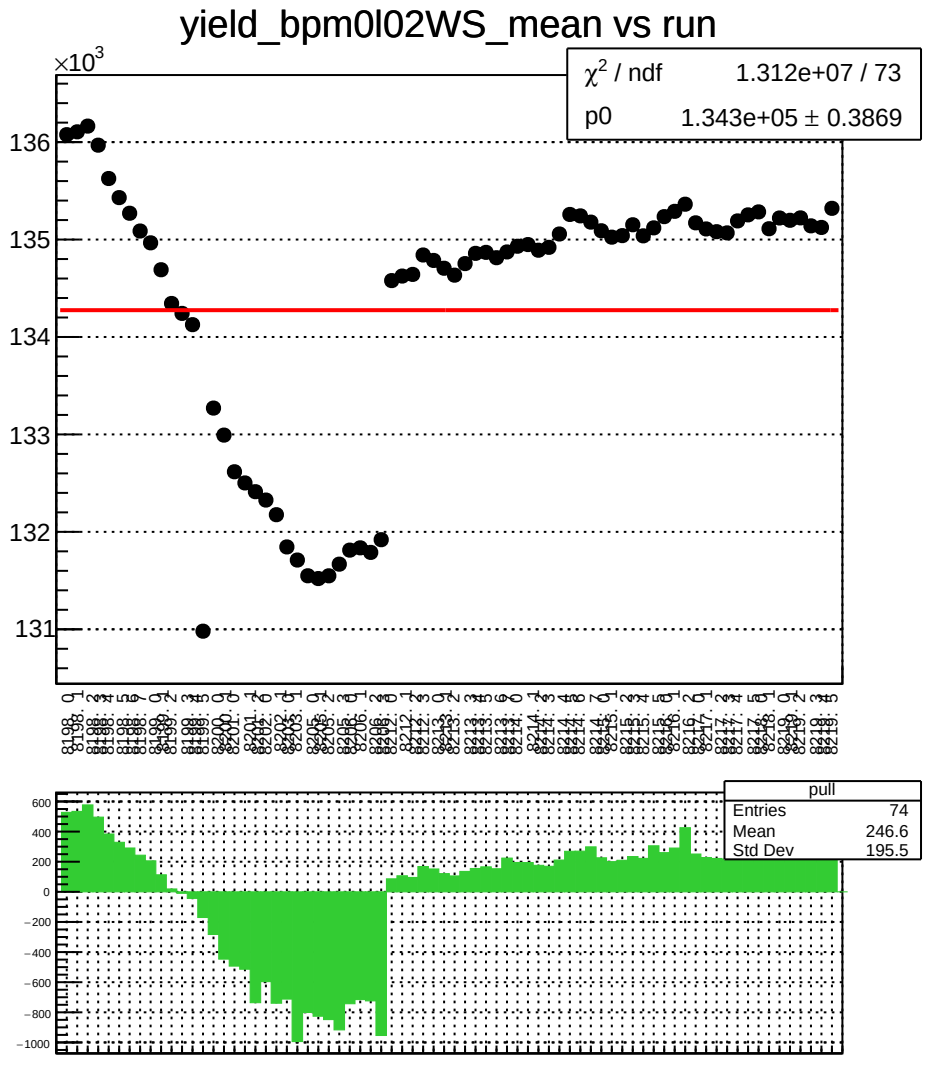

pull1D
Entries 74
Mean 1.519
Std Dev 3.796
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

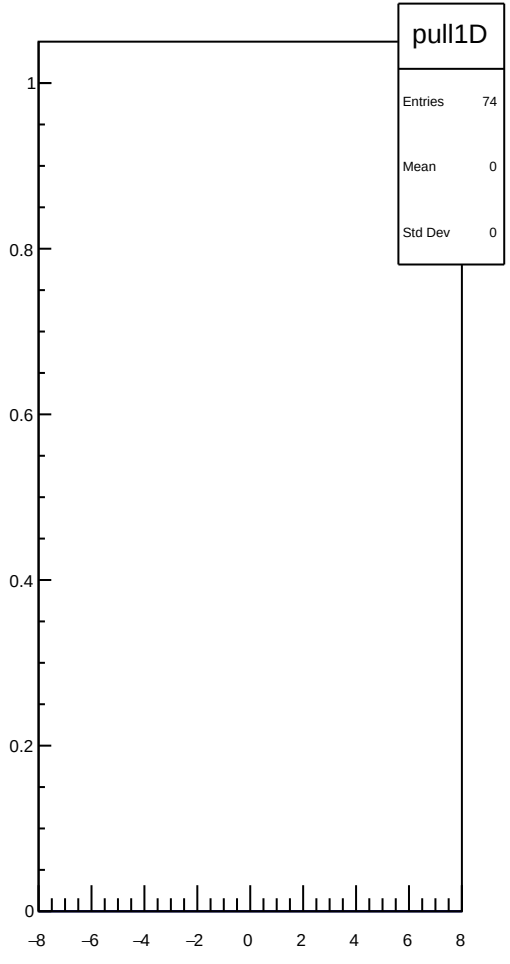

yield_bpm0i01aWS_rms vs run
χ² / ndf 2.177e+04 / 73
p0 311 ± 0.2555
2000
1800
1600
1400
1200
1000
800
600
400
200

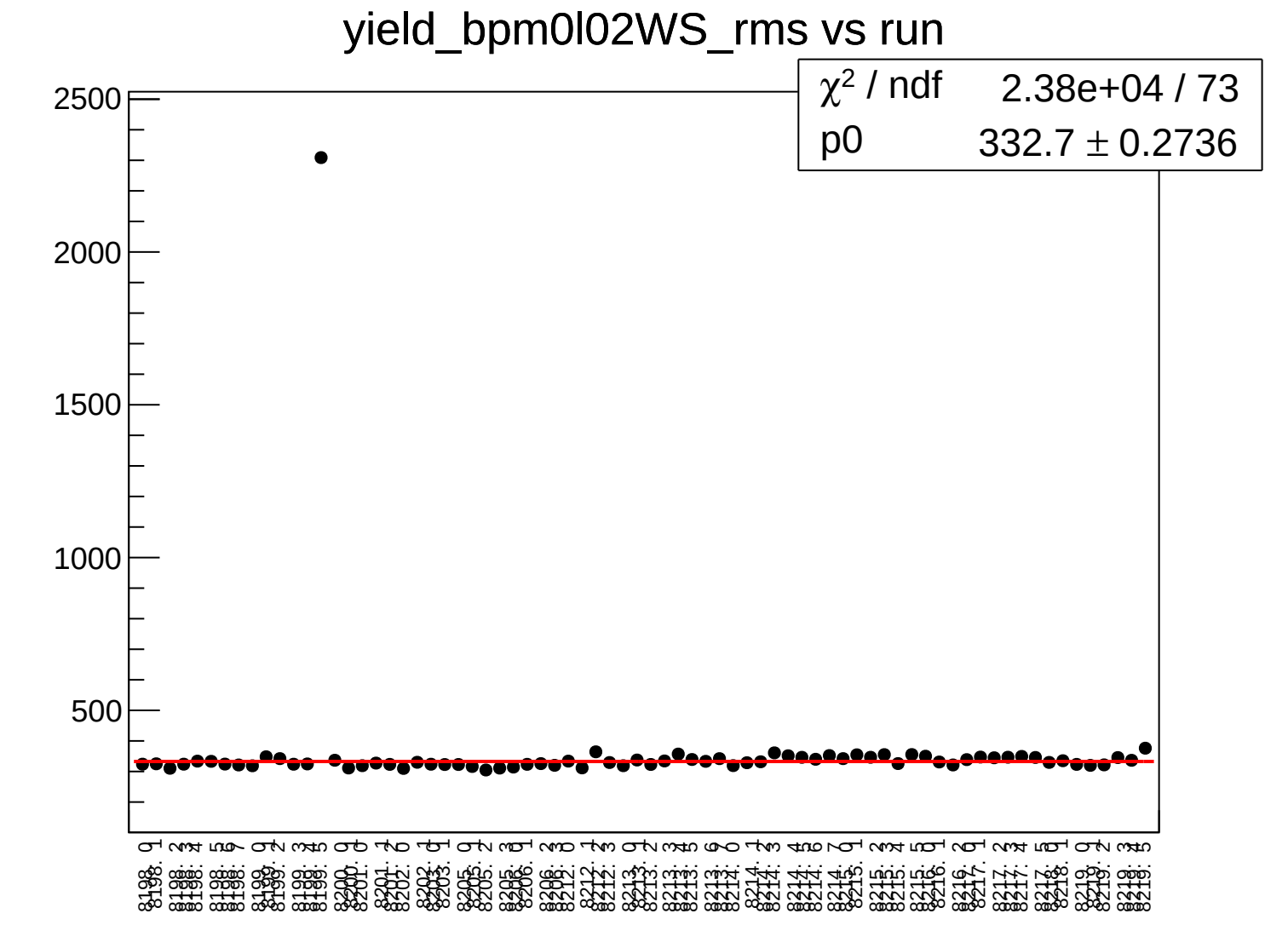

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 3.834e+05 / 73
p0 1.164e+05 ± 0.2945
117
116.5
116
115.5
115
114.5
114
pull
Entries 74
Mean 610.5
Std Dev 583
200
150
100
50
0
−50
−100

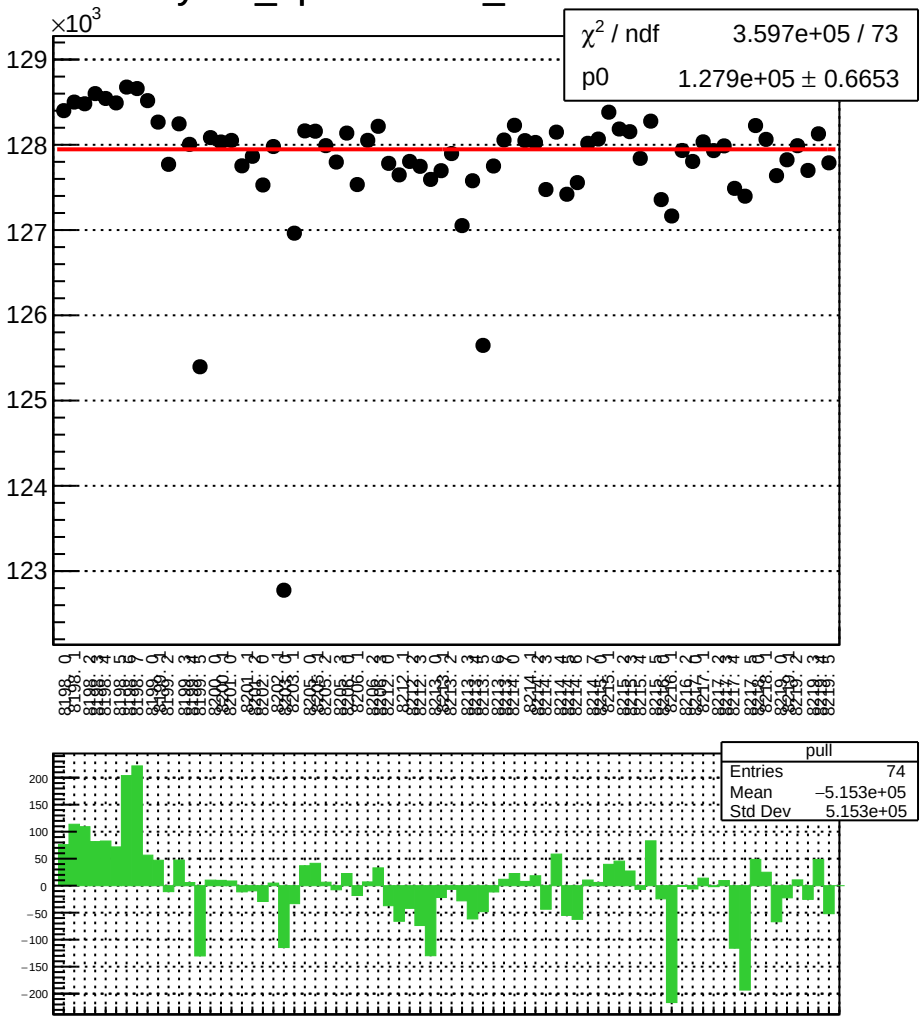

pull1D
Entries 74
Mean 0.1675
Std Dev 3.489
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

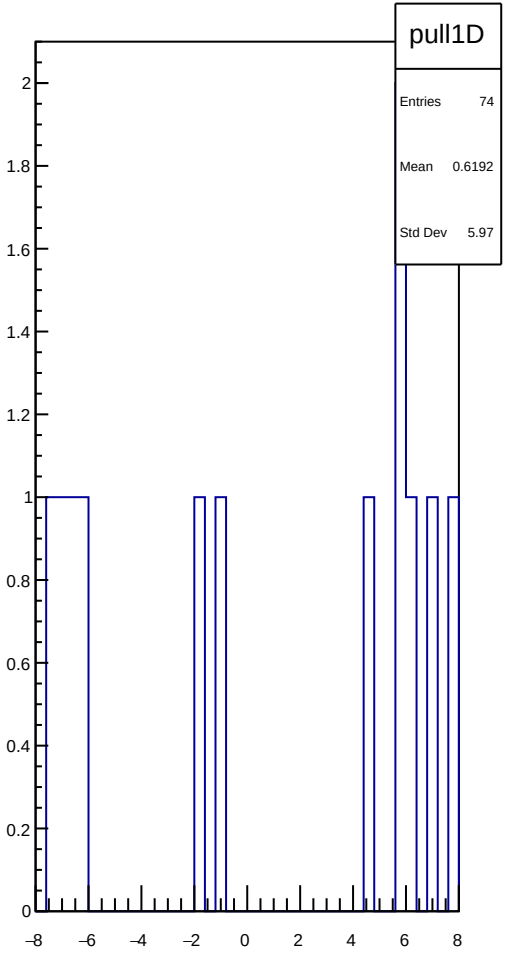

yield_bpm0l01WS_rms vs run
χ² / ndf 2.508e+04 / 73
p0 253.1 ± 0.2082
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

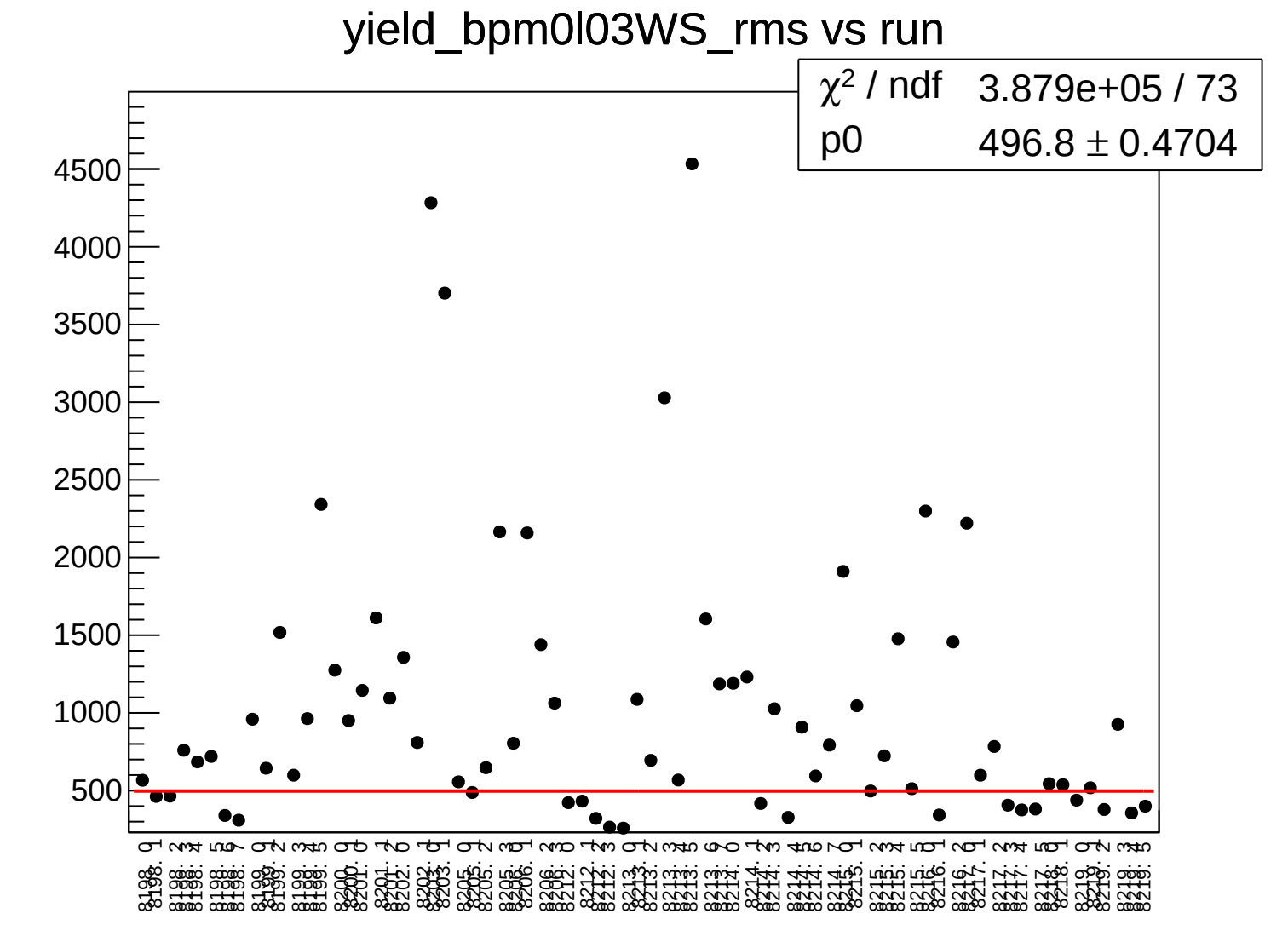

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.312e+07 / 73
p0 1.343e+05 ± 0.3869
136
135
134
133
132
131
pull
Entries 74
Mean 246.6
Std Dev 195.5
600
400
200
0
−200
−400
−600
−800
−1000

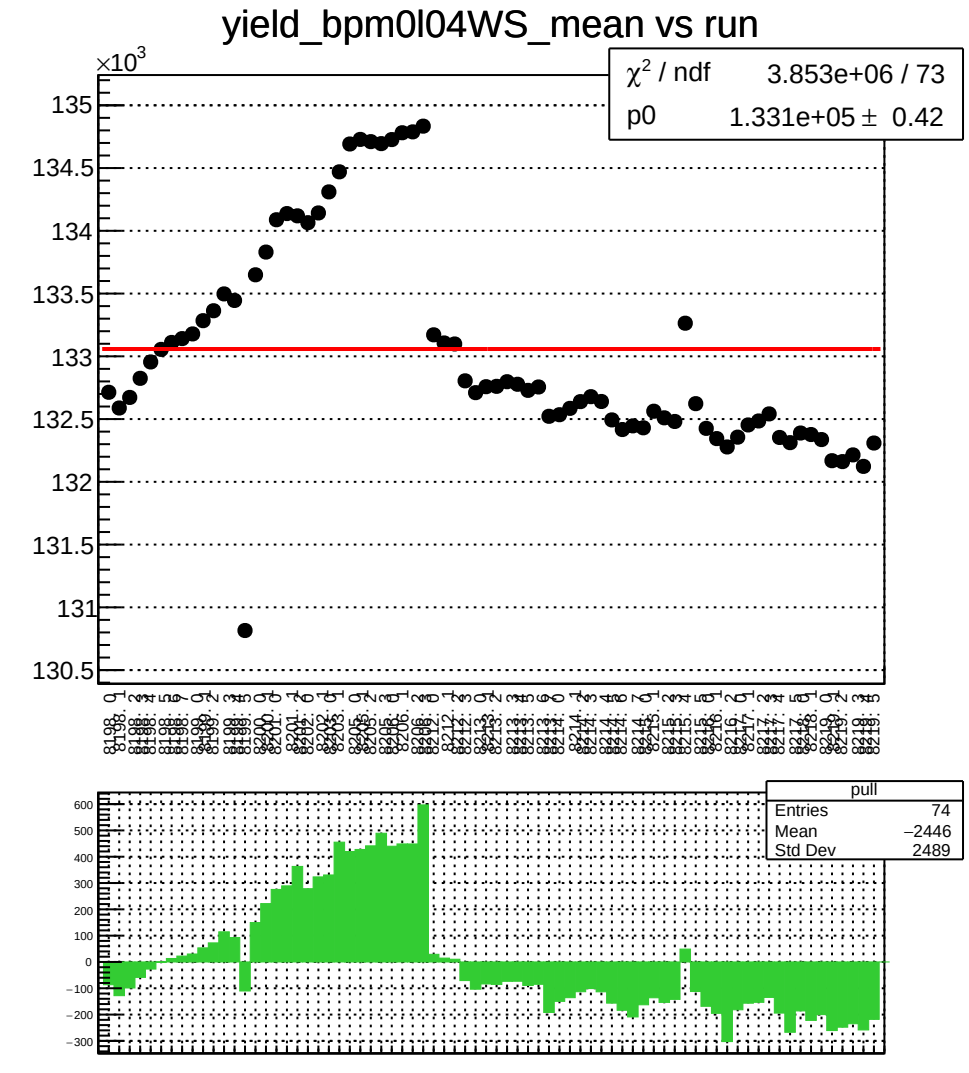

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

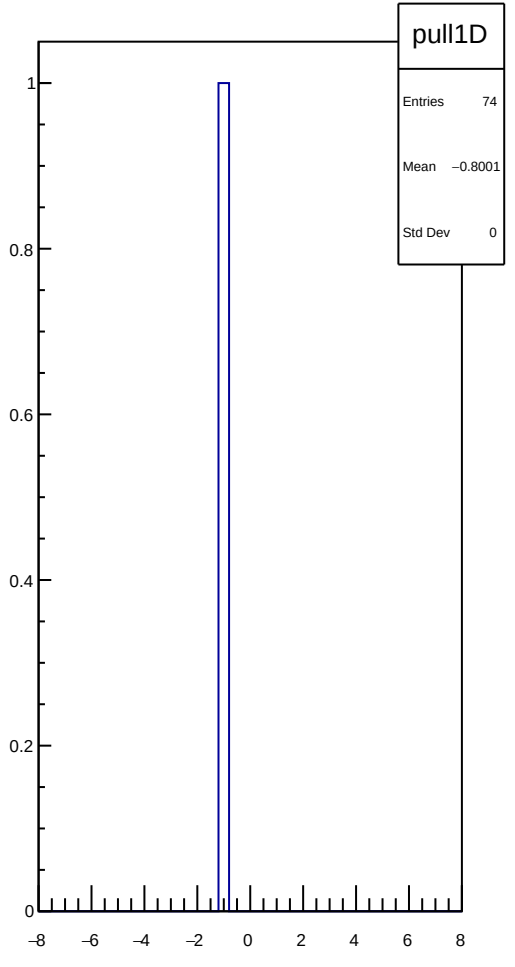

yield_bpm0l02WS_rms vs run
χ² / ndf 2.38e+04 / 73
p0 332.7 ± 0.2736
2500
2000
1500
1000
500

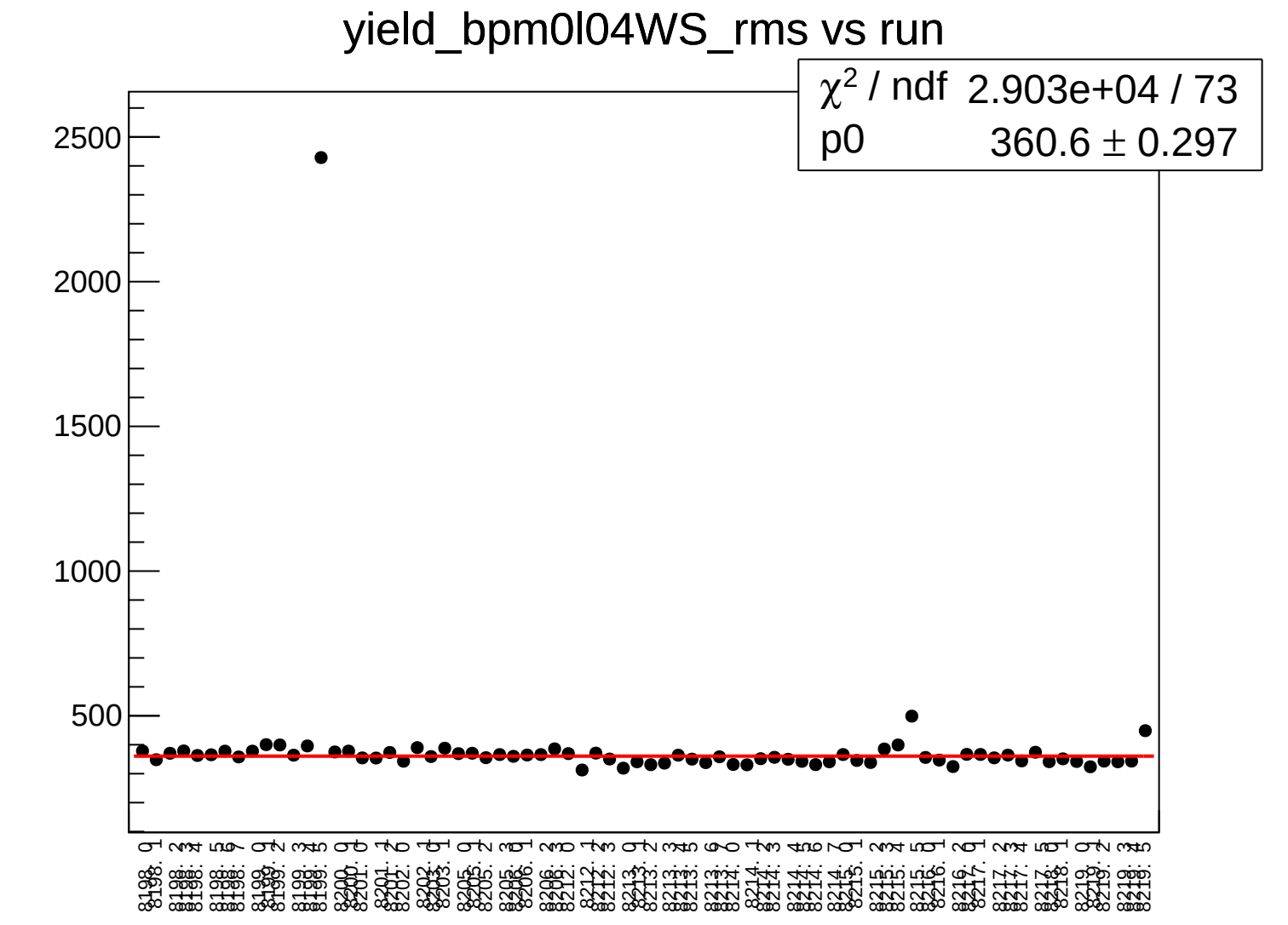

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 3.597e+05 / 73
p0 1.279e+05 ± 0.6653
129
128
127
126
125
124
123
pull
Entries 74
Mean −5.153e+05
Std Dev 5.153e+05
200
150
100
50
0
−50
−100
−150
−200

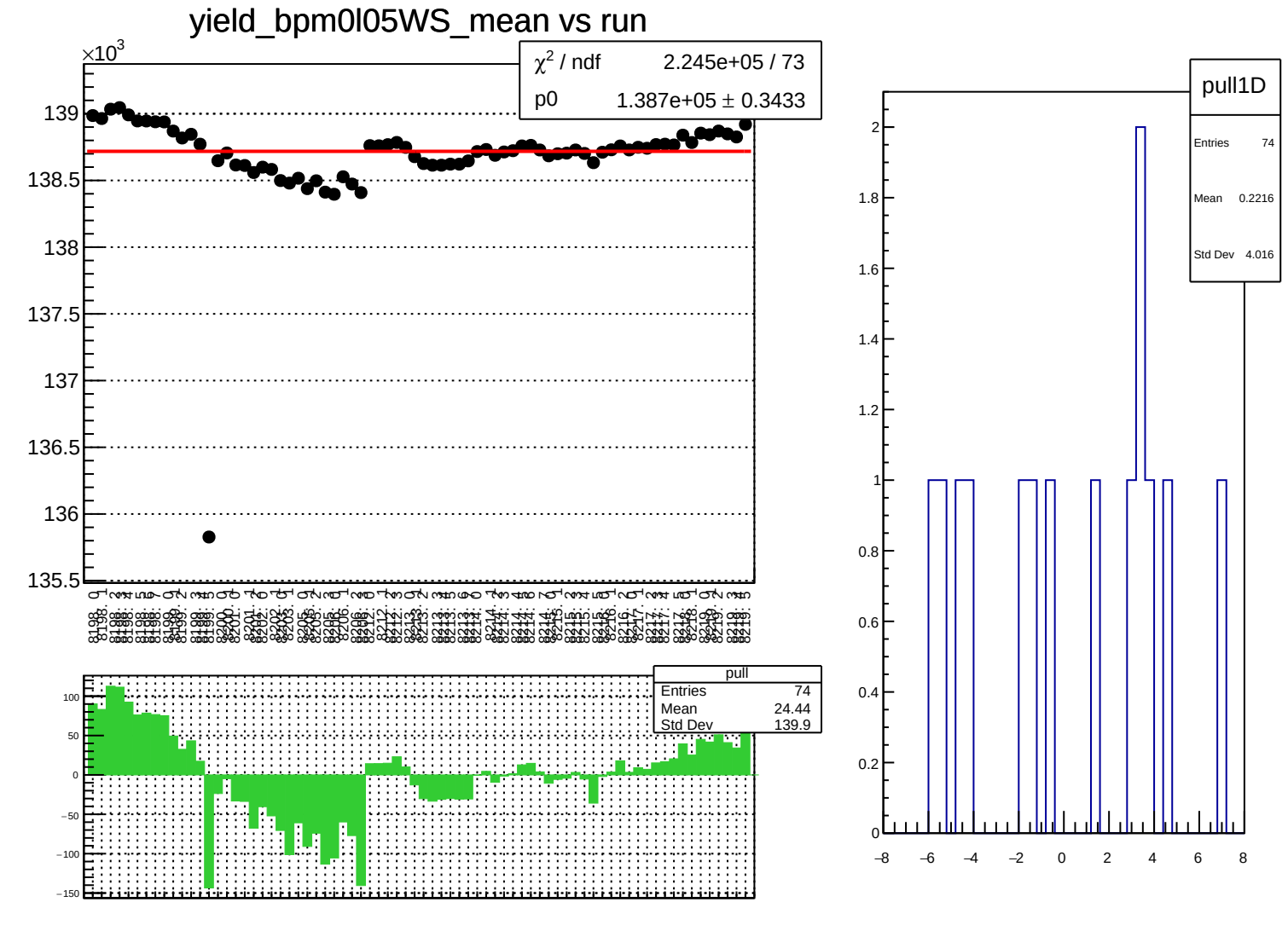

pull1D
Entries 74
Mean 0.6192
Std Dev 5.97
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

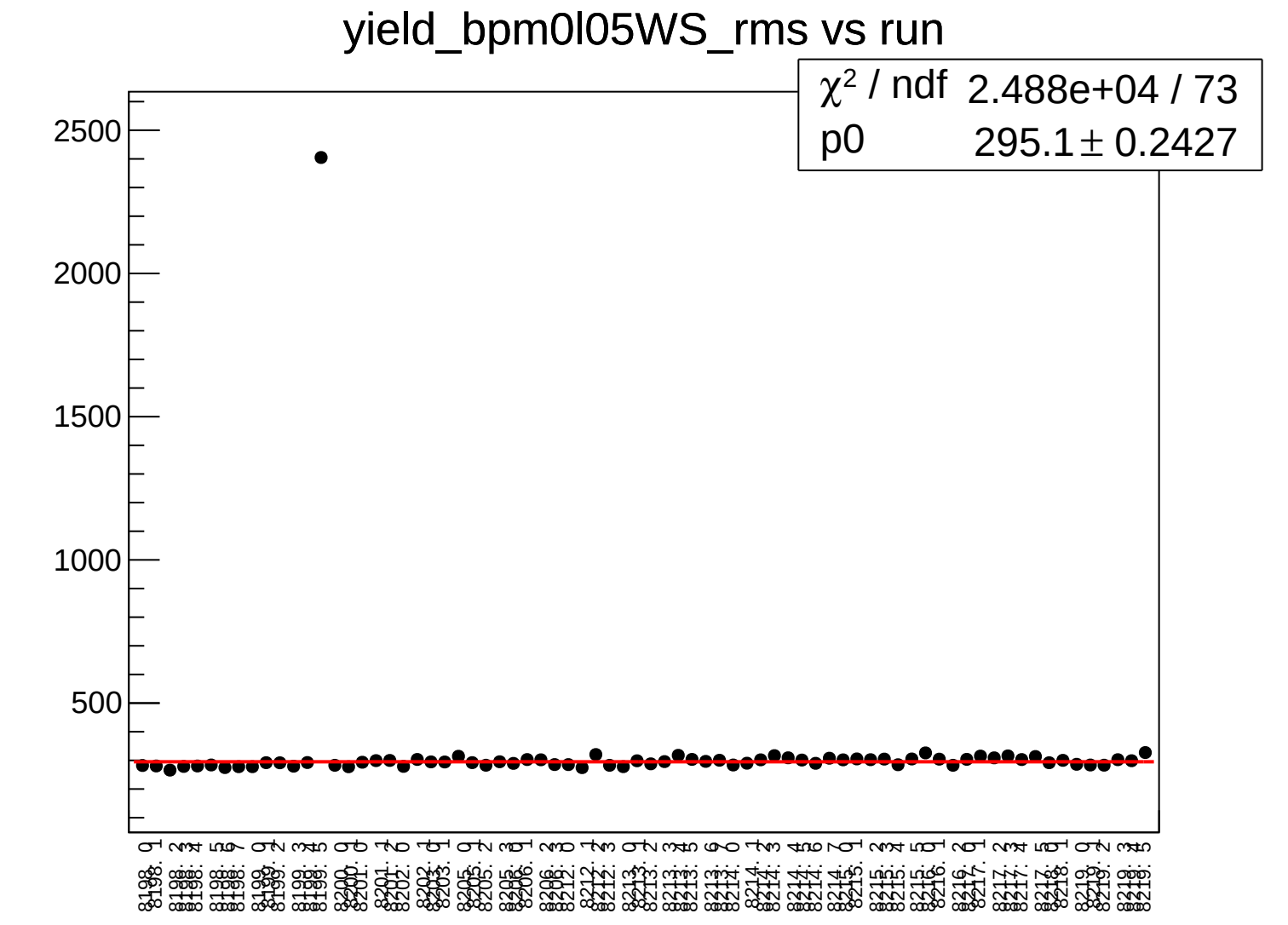

yield_bpm0l03WS_rms vs run
χ² / ndf 3.879e+05 / 73
p0 496.8 ± 0.4704
4500
4000
3500
3000
2500
2000
1500
1000
500

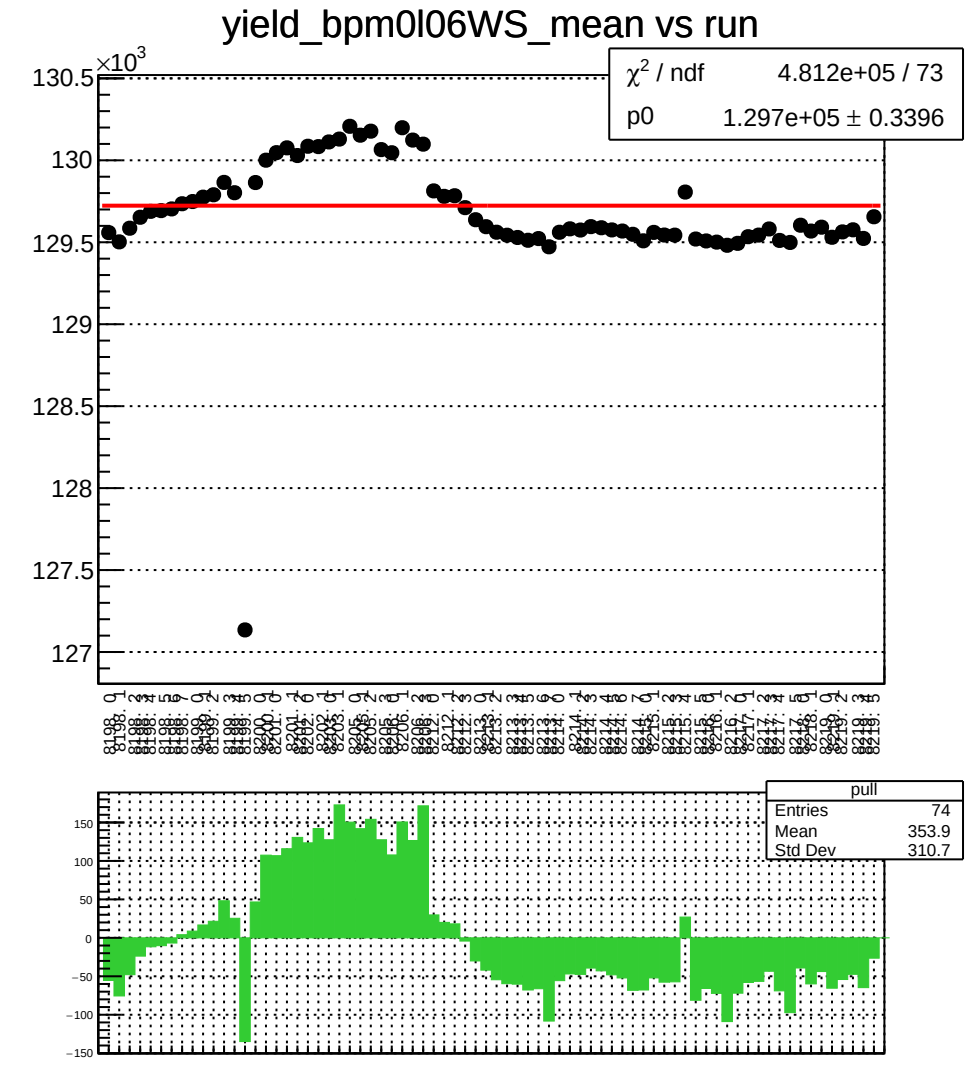

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 3.853e+06 / 73
p0 1.331e+05 ± 0.42
135
134.5
134
133.5
133
132.5
132
131.5
131
130.5
pull
Entries 74
Mean −2446
Std Dev 2489
600
500
400
300
200
100
0
−100
−200
−300

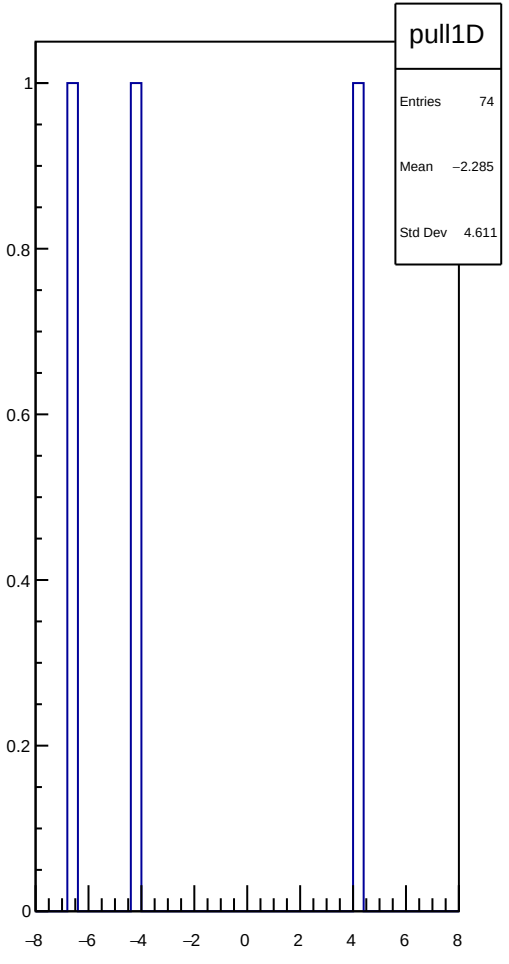

pull1D
Entries 74
Mean −0.8001
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

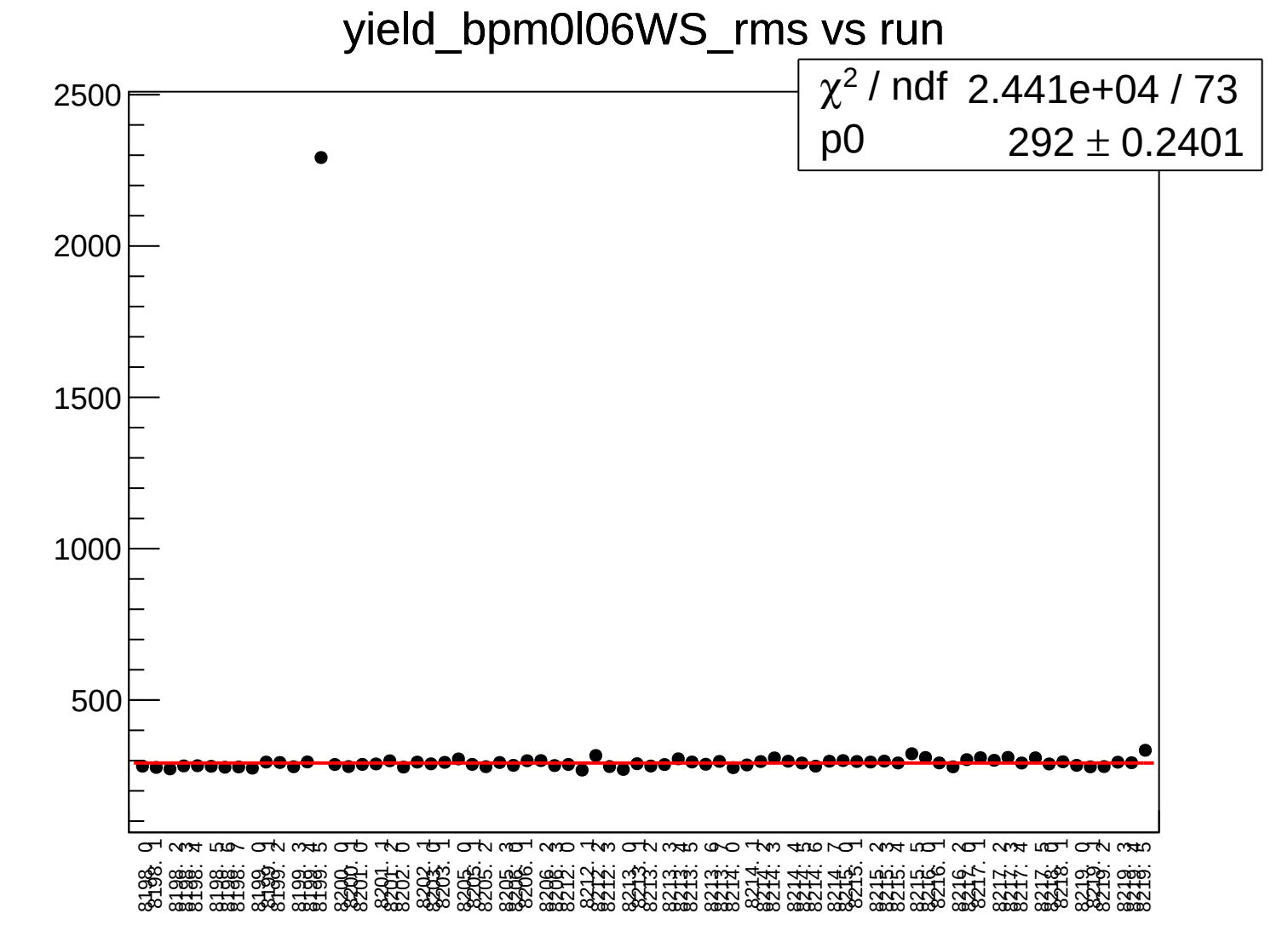

yield_bpm0l04WS_rms vs run
χ² / ndf 2.903e+04 / 73
p0 360.6 ± 0.297
2500
2000
1500
1000
500

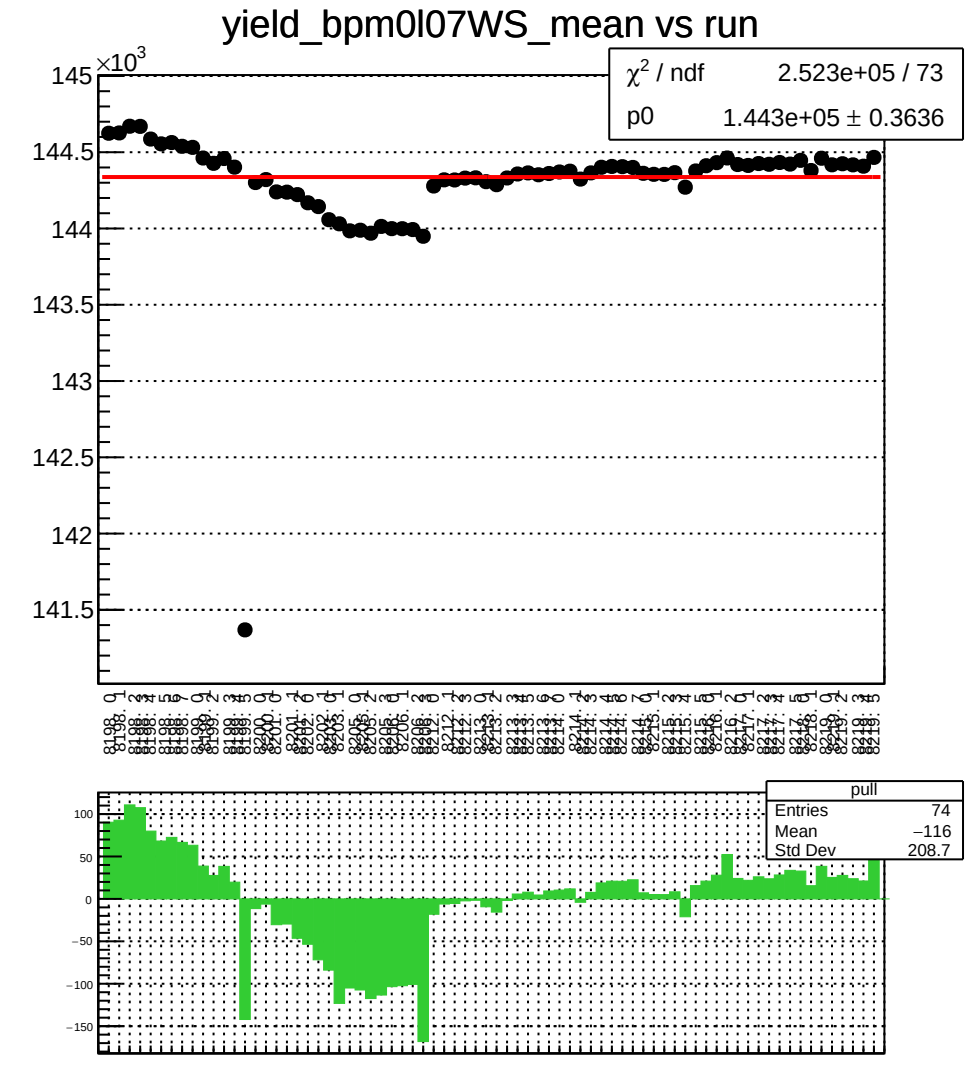

yield_bpm0l05WS_mean vs run
χ² / ndf 2.245e+05 / 73
p0 1.387e+05 ± 0.3433
×10³
pull
Entries 74
Mean 24.44
Std Dev 139.9
pull1D
Entries 74
Mean 0.2216
Std Dev 4.016

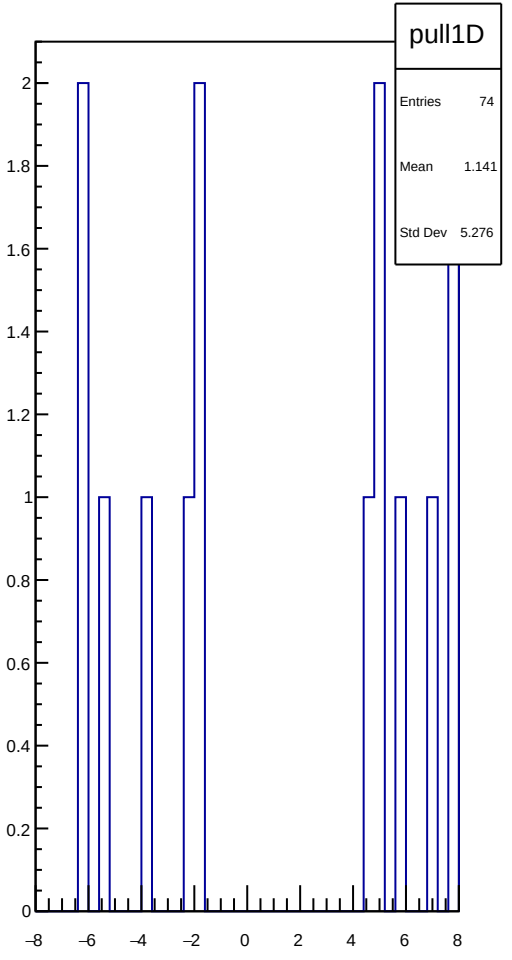

yield_bpm0l05WS_rms vs run
χ² / ndf 2.488e+04 / 73
p0 295.1 ± 0.2427
2500
2000
1500
1000
500

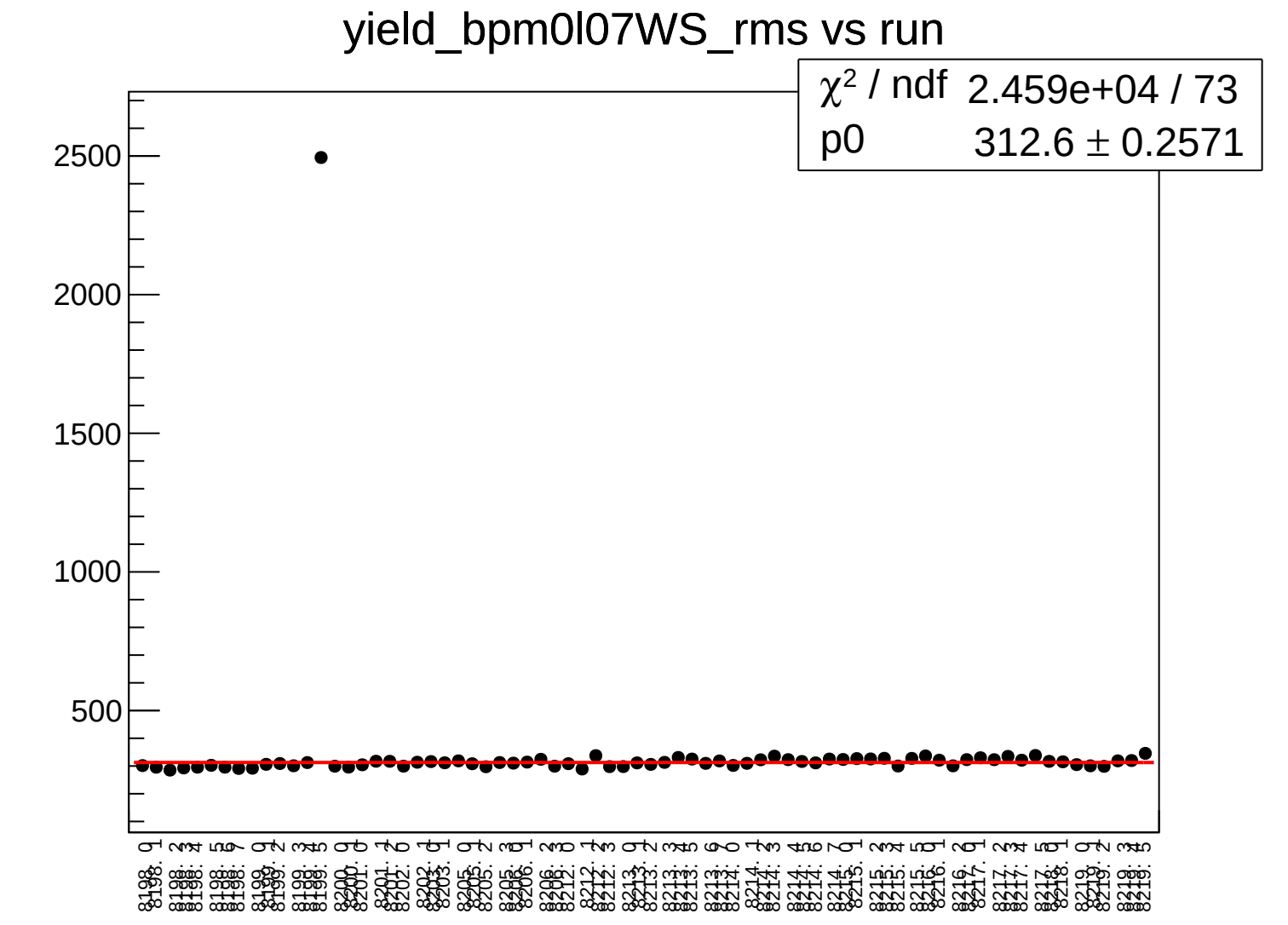

yield_bpm0l06WS_mean vs run
×10^3
130.5
130
129.5
129
128.5
128
127.5
127
χ² / ndf 4.812e+05 / 73
p0 1.297e+05 ± 0.3396
pull
Entries 74
Mean 353.9
Std Dev 310.7
150
100
50
0
−50
−100
−150

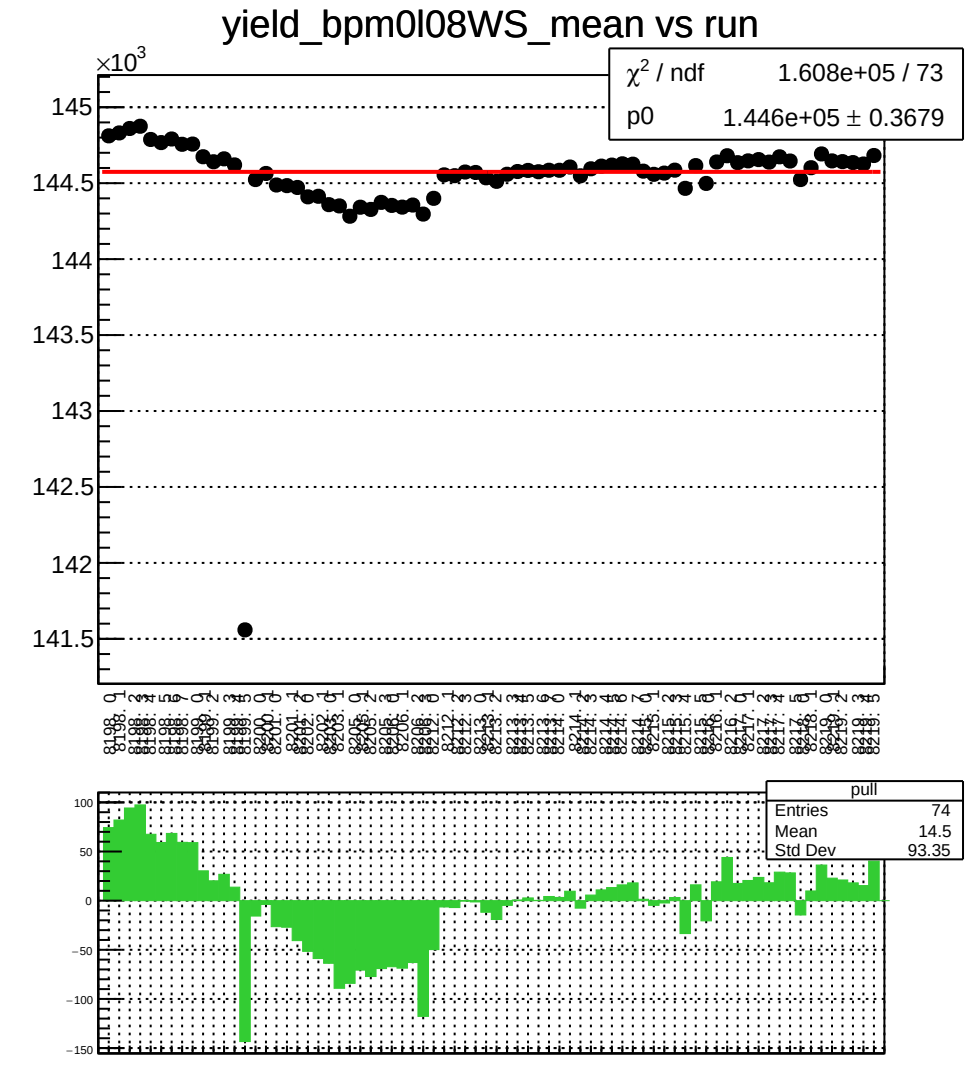

pull1D
Entries 74
Mean −2.285
Std Dev 4.611
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

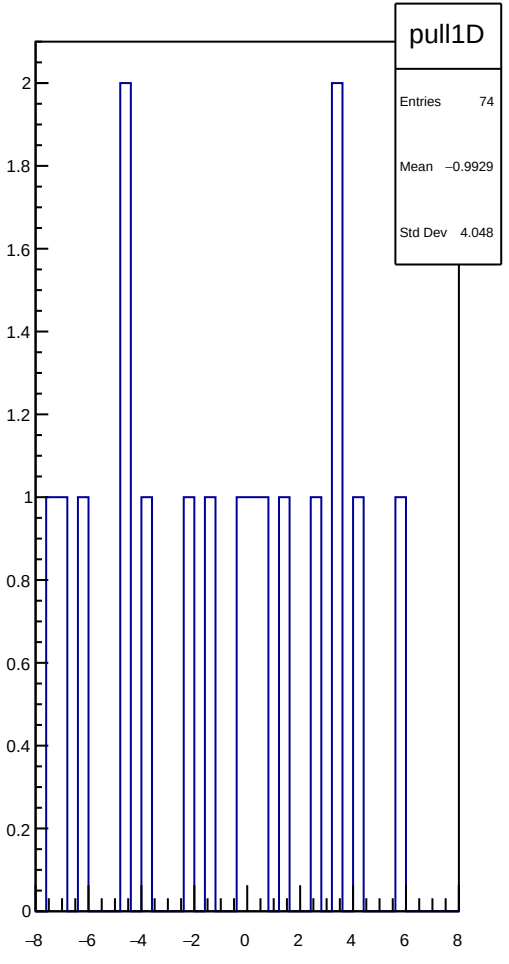

yield_bpm0l06WS_rms vs run
χ² / ndf 2.441e+04 / 73
p0 292 ± 0.2401
2500
2000
1500
1000
500

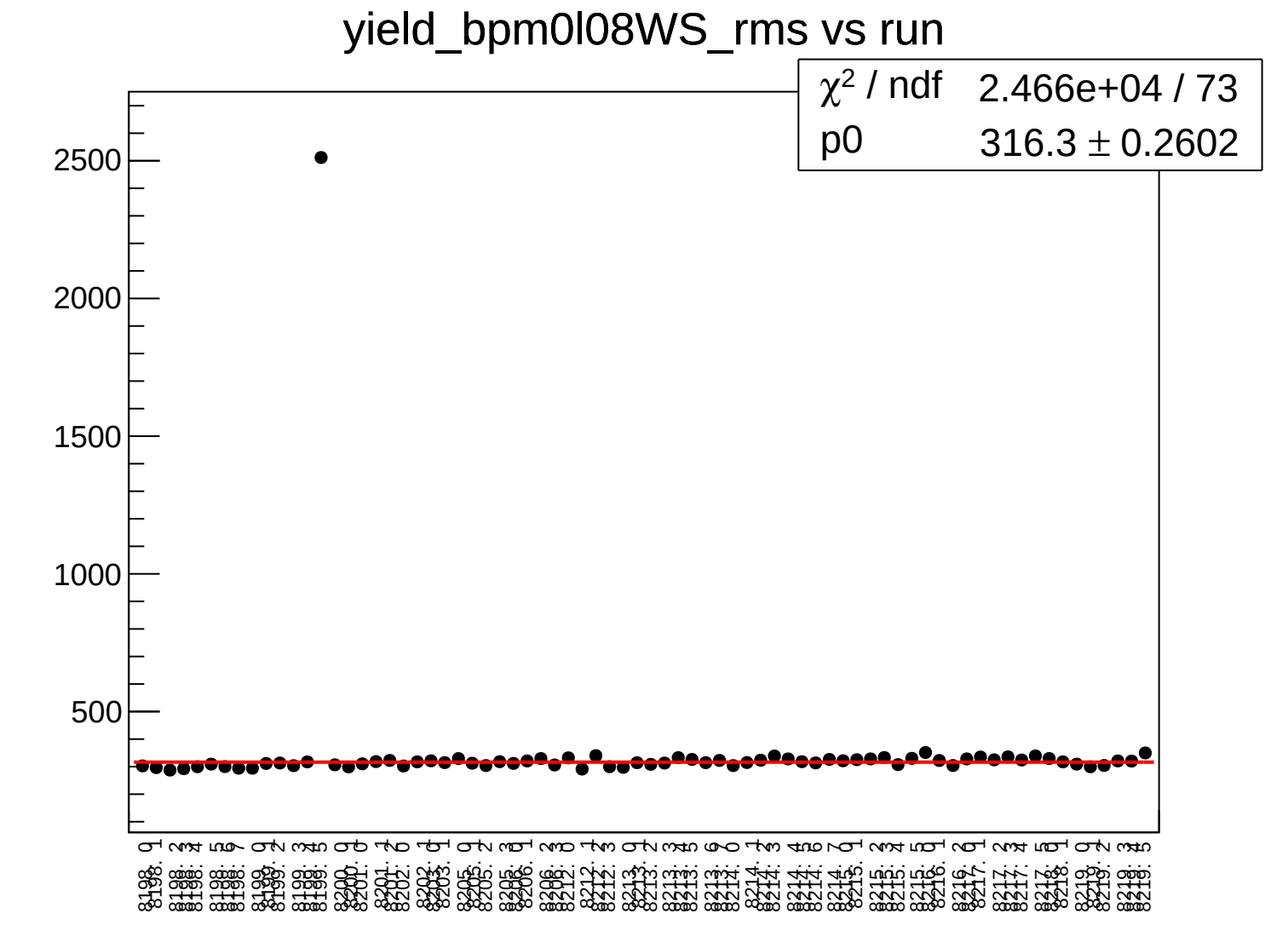

yield_bpm0l07WS_mean vs run
χ² / ndf 2.523e+05 / 73
p0 1.443e+05 ± 0.3636
×10³
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 74
Mean −116
Std Dev 208.7
100
50
0
−50
−100
−150

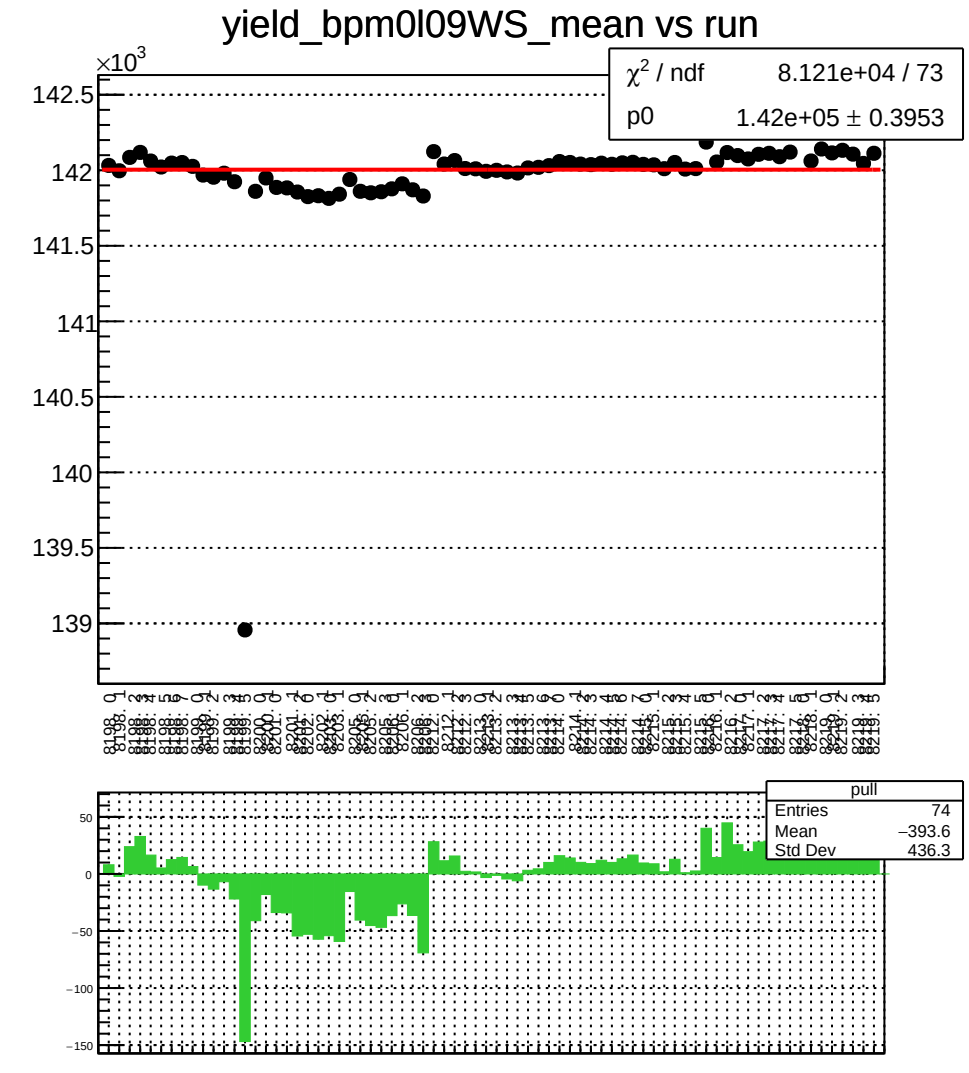

pull1D
Entries 74
Mean 1.141
Std Dev 5.276
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

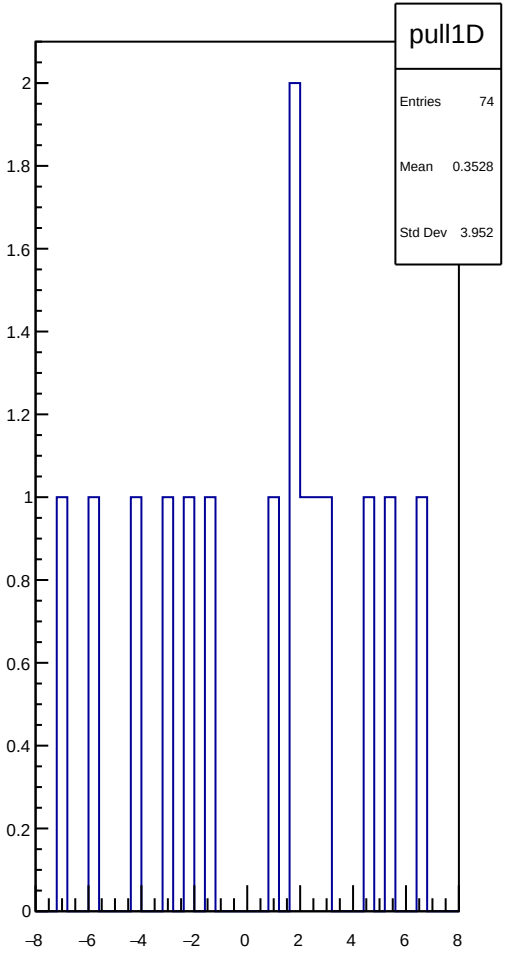

yield_bpm0l07WS_rms vs run
χ² / ndf 2.459e+04 / 73
p0 312.6 ± 0.2571
2500
2000
1500
1000
500

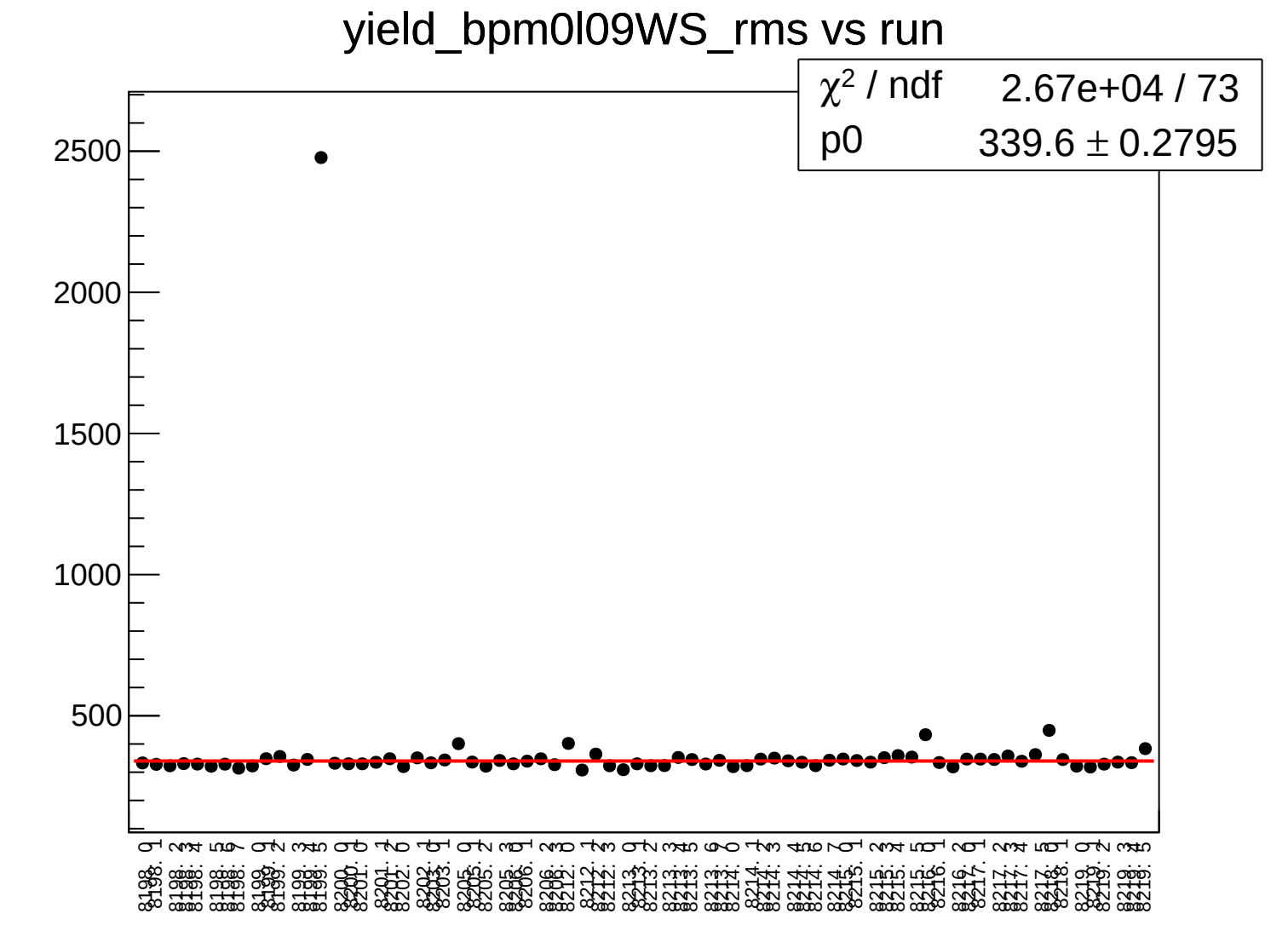

yield_bpm0l08WS_mean vs run
×10^3
χ² / ndf 1.608e+05 / 73
p0 1.446e+05 ± 0.3679
145
144.5
144
143.5
143
142.5
142
141.5
pull
Entries 74
Mean 14.5
Std Dev 93.35
100
50
0
−50
−100
−150

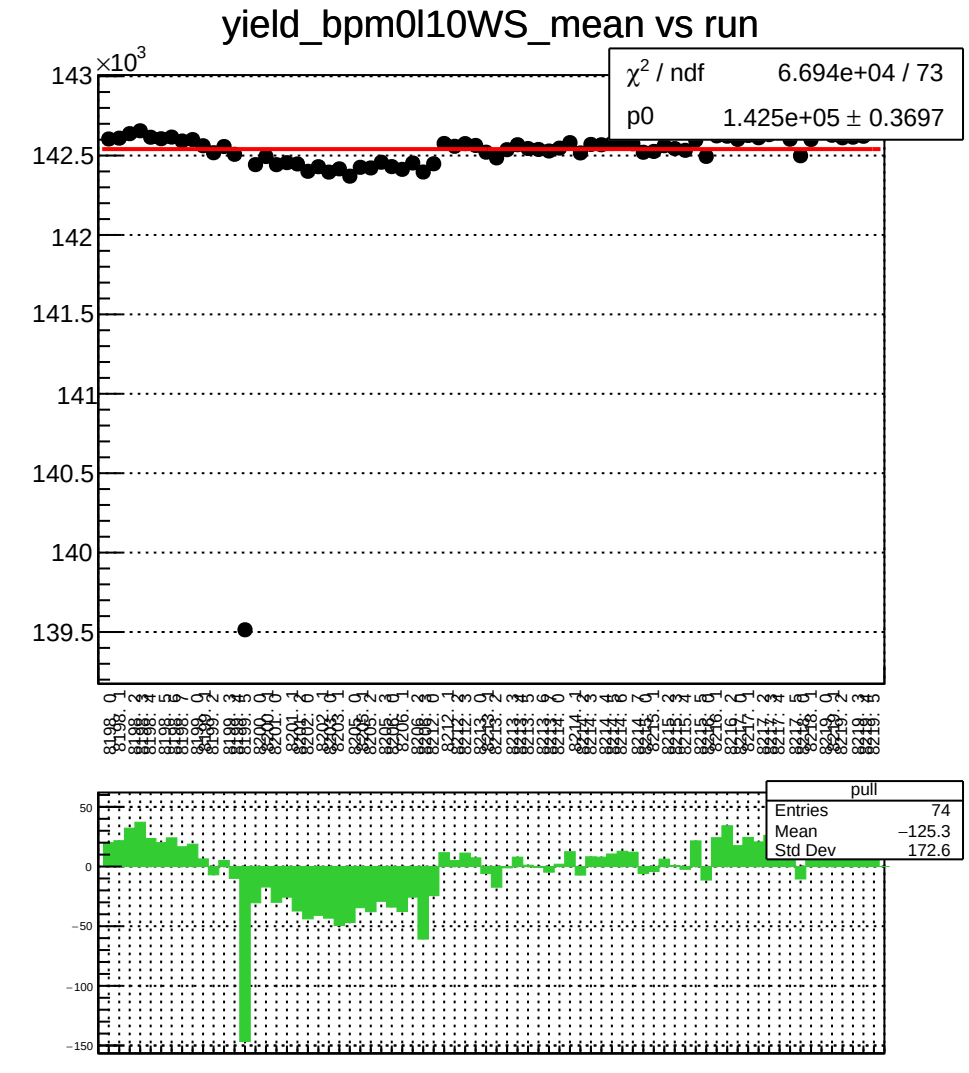

pull1D
Entries 74
Mean −0.9929
Std Dev 4.048
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

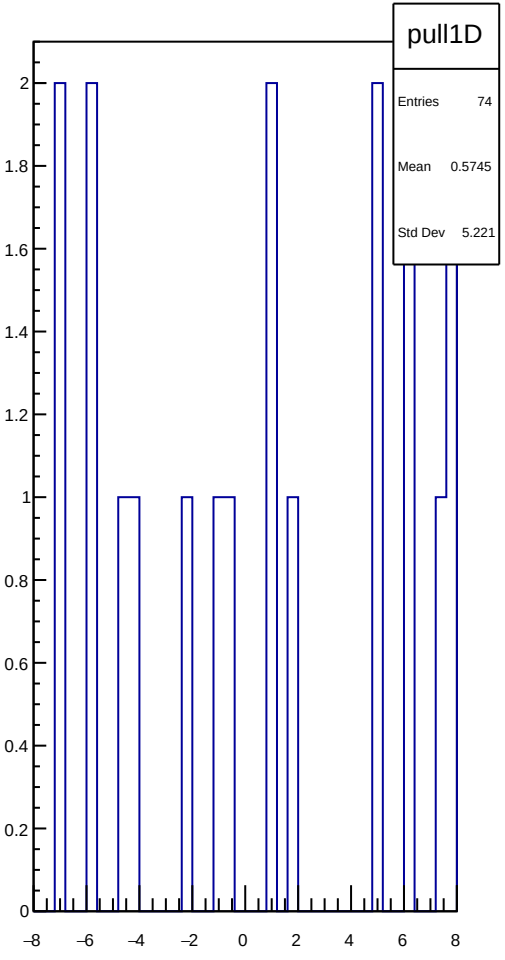

yield_bpm0l08WS_rms vs run
χ² / ndf 2.466e+04 / 73
p0 316.3 ± 0.2602
2500
2000
1500
1000
500

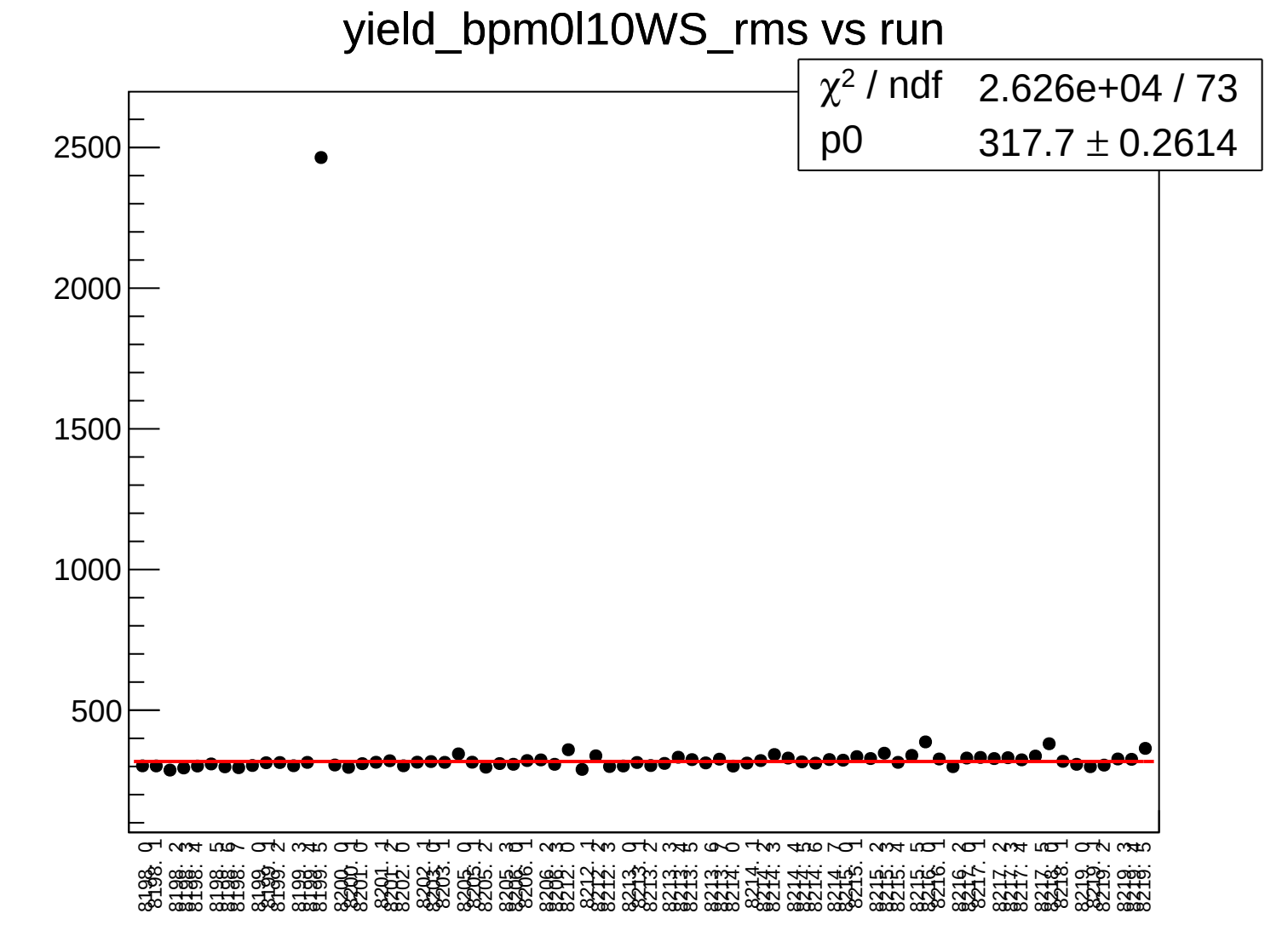

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 8.121e+04 / 73
p0 1.42e+05 ± 0.3953
142.5
142
141.5
141
140.5
140
139.5
139
pull
Entries 74
Mean −393.6
Std Dev 436.3
50
0
−50
−100
−150

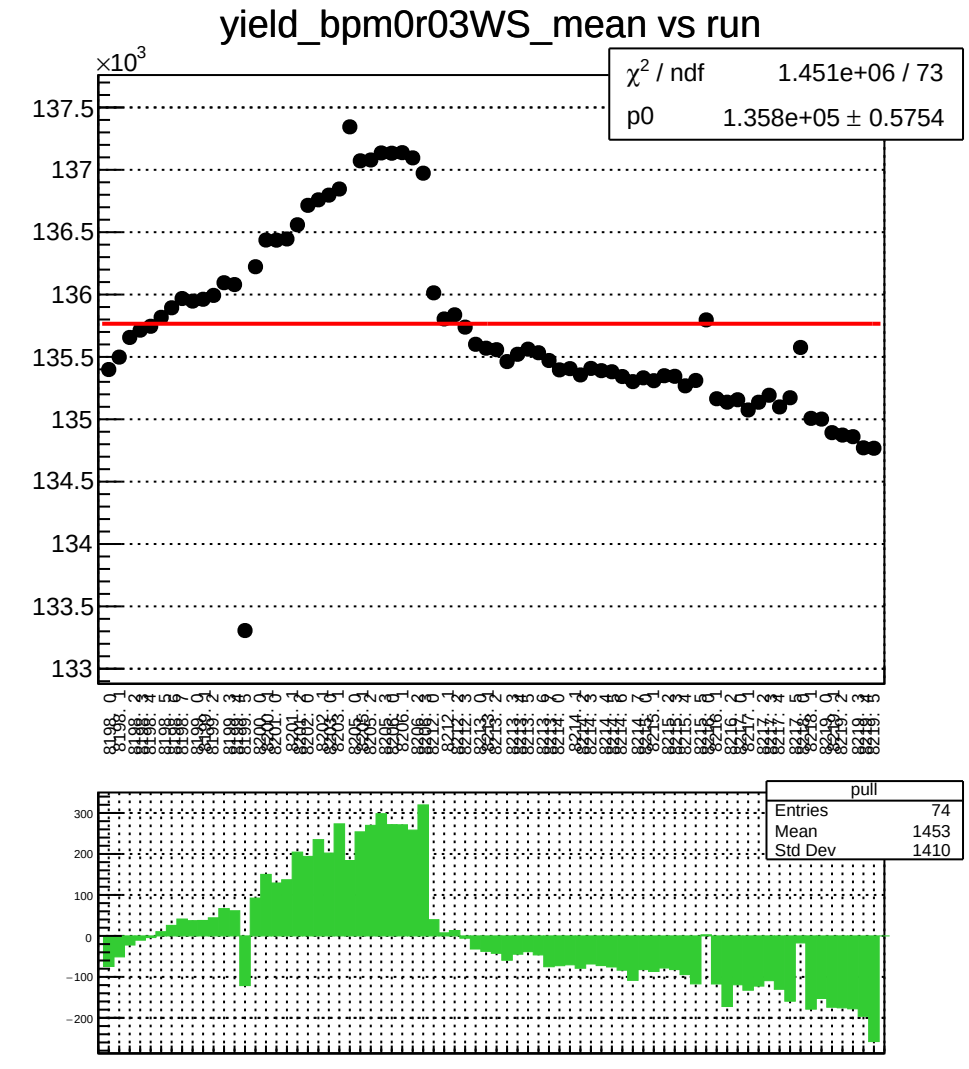

pull1D
Entries 74
Mean 0.3528
Std Dev 3.952
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

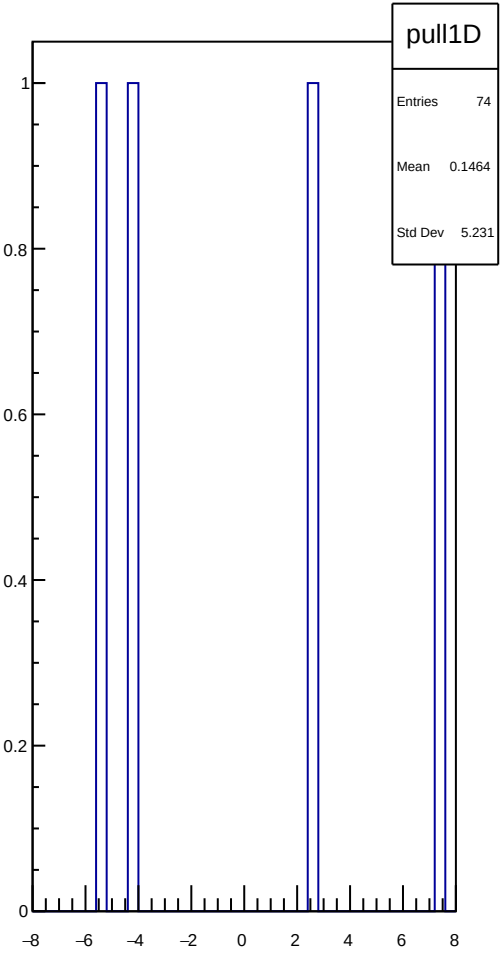

yield_bpm0l09WS_rms vs run
χ² / ndf 2.67e+04 / 73
p0 339.6 ± 0.2795
2500
2000
1500
1000
500

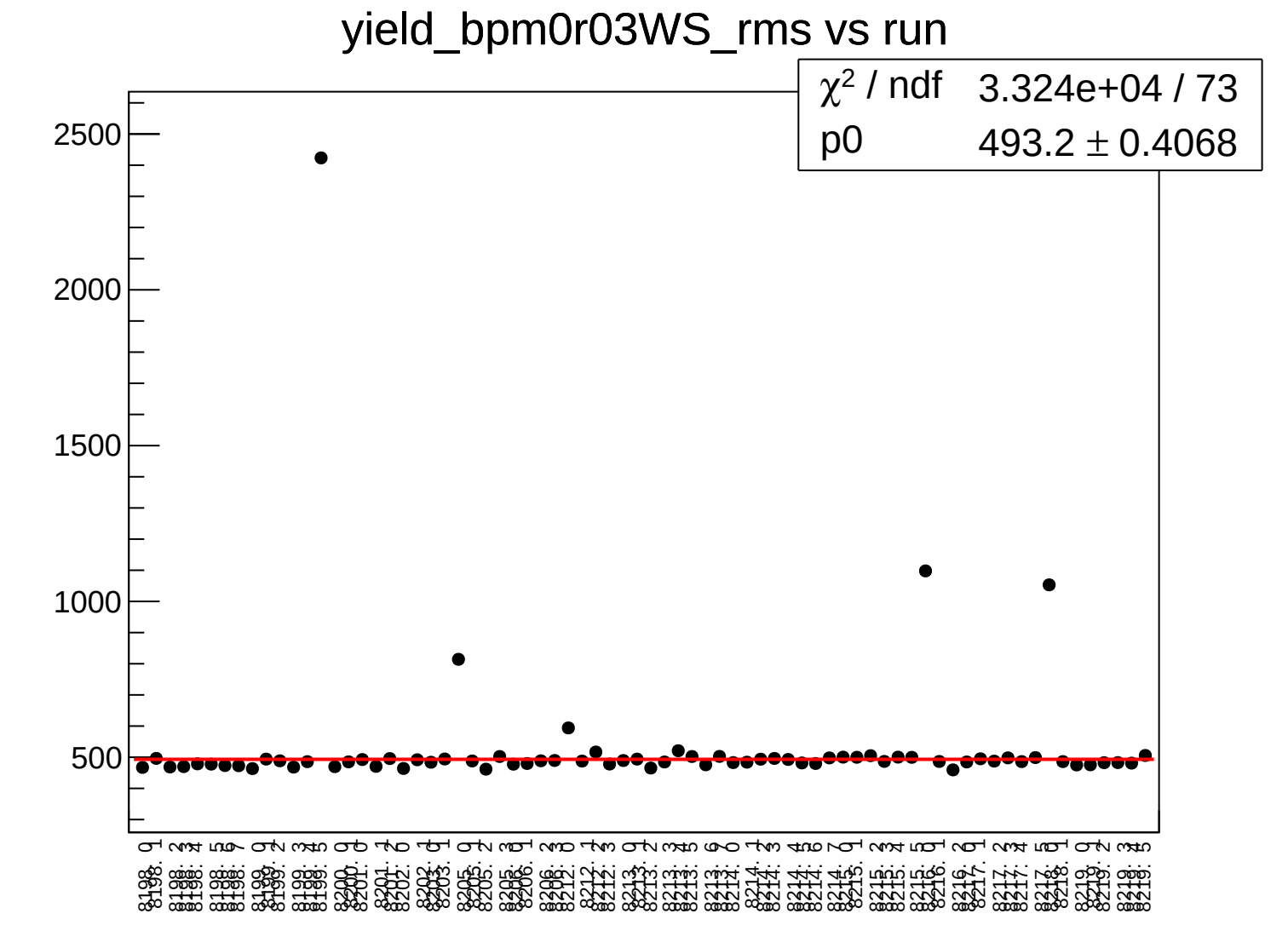

yield_bpm0l10WS_mean vs run
χ² / ndf 6.694e+04 / 73
p0 1.425e+05 ± 0.3697
×10³
143
142.5
142
141.5
141
140.5
140
139.5
pull
Entries 74
Mean −125.3
Std Dev 172.6
50
0
−50
−100
−150

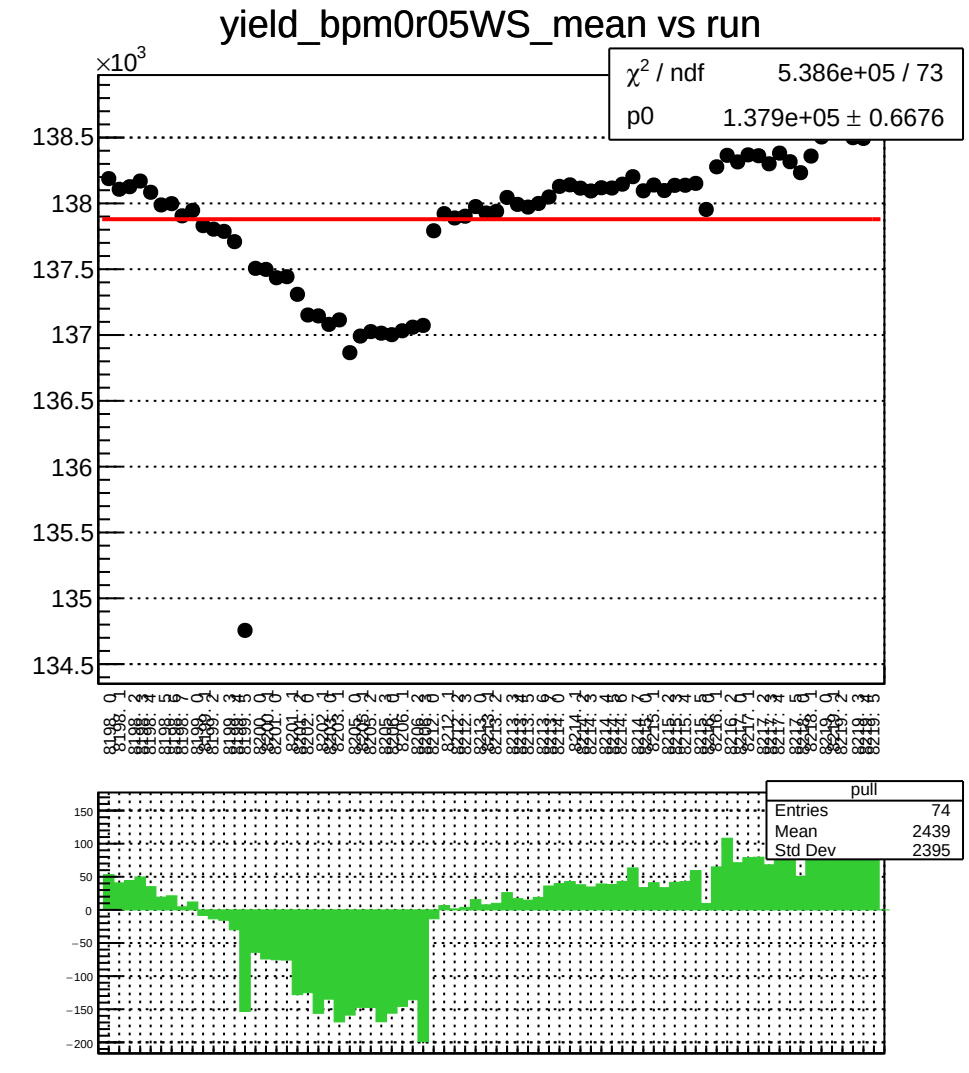

pull1D
Entries 74
Mean 0.5745
Std Dev 5.221
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

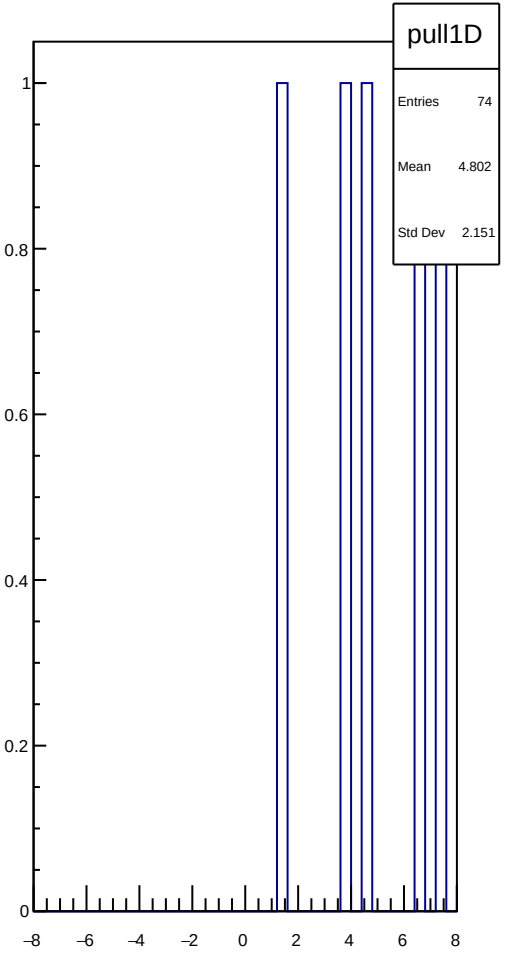

yield_bpm0l10WS_rms vs run
χ² / ndf 2.626e+04 / 73
p0 317.7 ± 0.2614
2500
2000
1500
1000
500

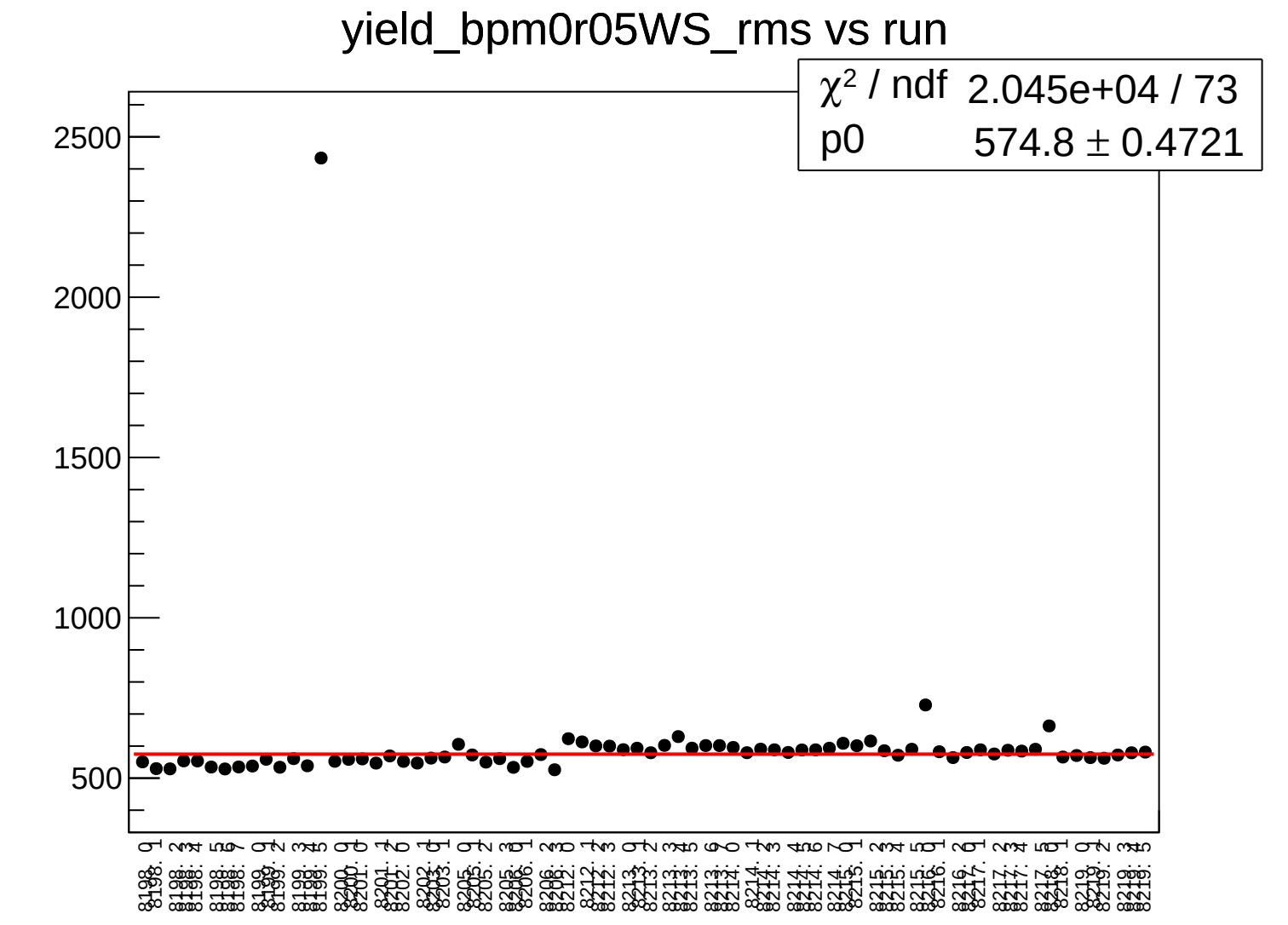

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 1.451e+06 / 73
p0 1.358e+05 ± 0.5754
137.5
137
136.5
136
135.5
135
134.5
134
133.5
133
pull
Entries 74
Mean 1453
Std Dev 1410
300
200
100
0
−100
−200

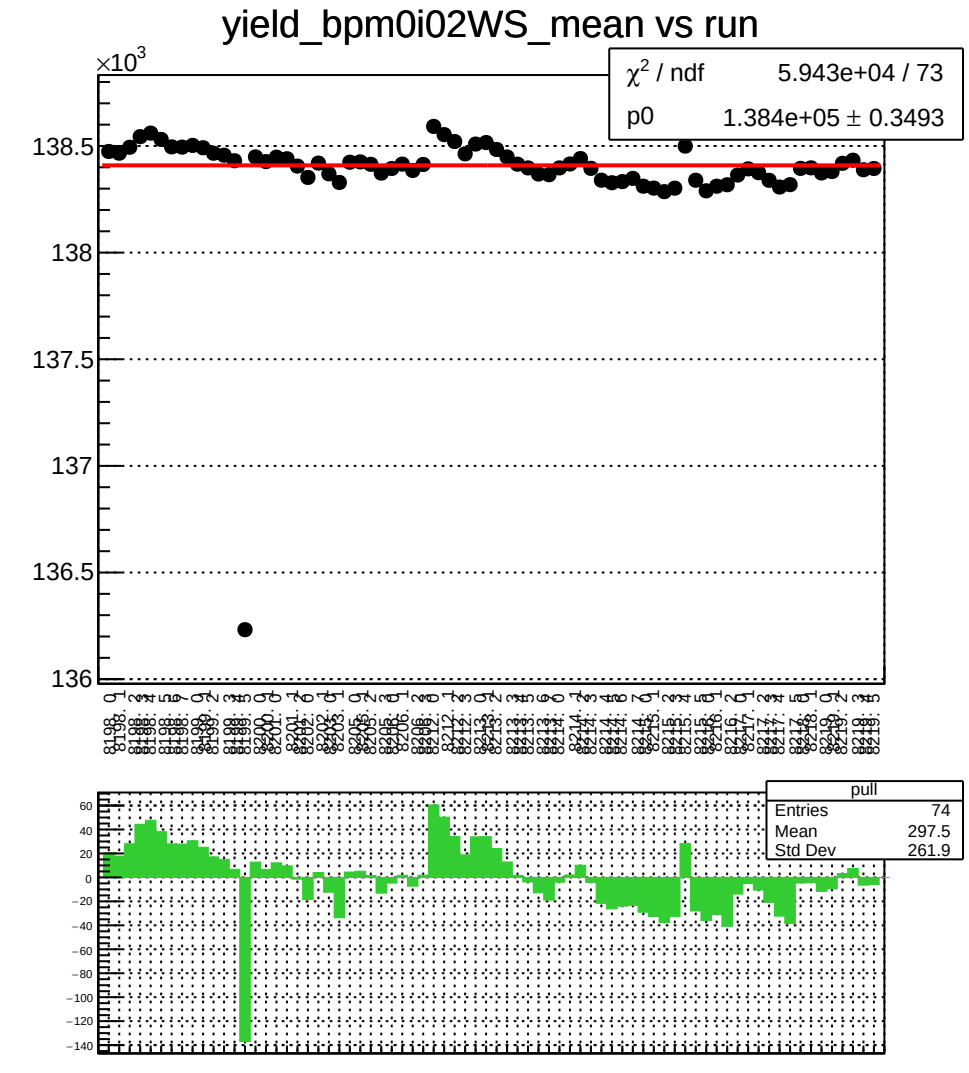

pull1D
Entries 74
Mean 0.1464
Std Dev 5.231
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

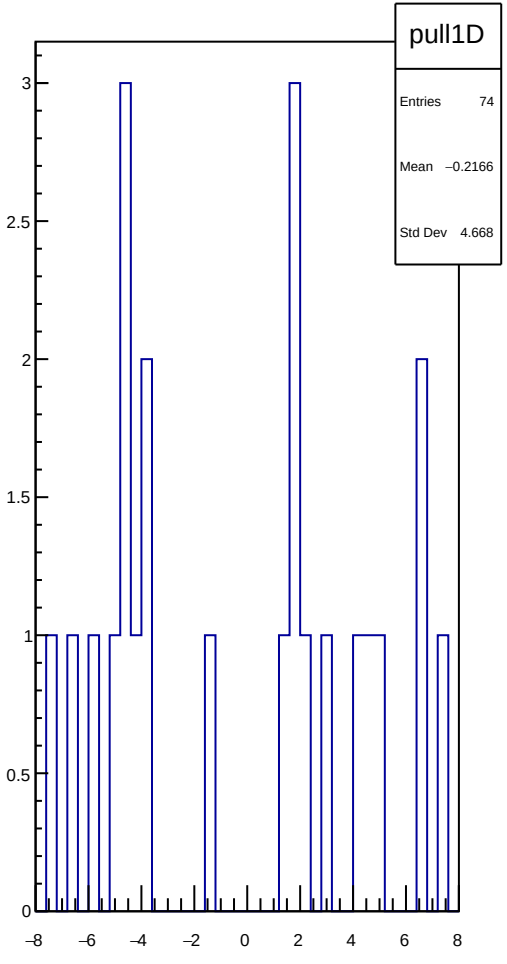

yield_bpm0r03WS_rms vs run
χ² / ndf 3.324e+04 / 73
p0 493.2 ± 0.4068
2500
2000
1500
1000
500

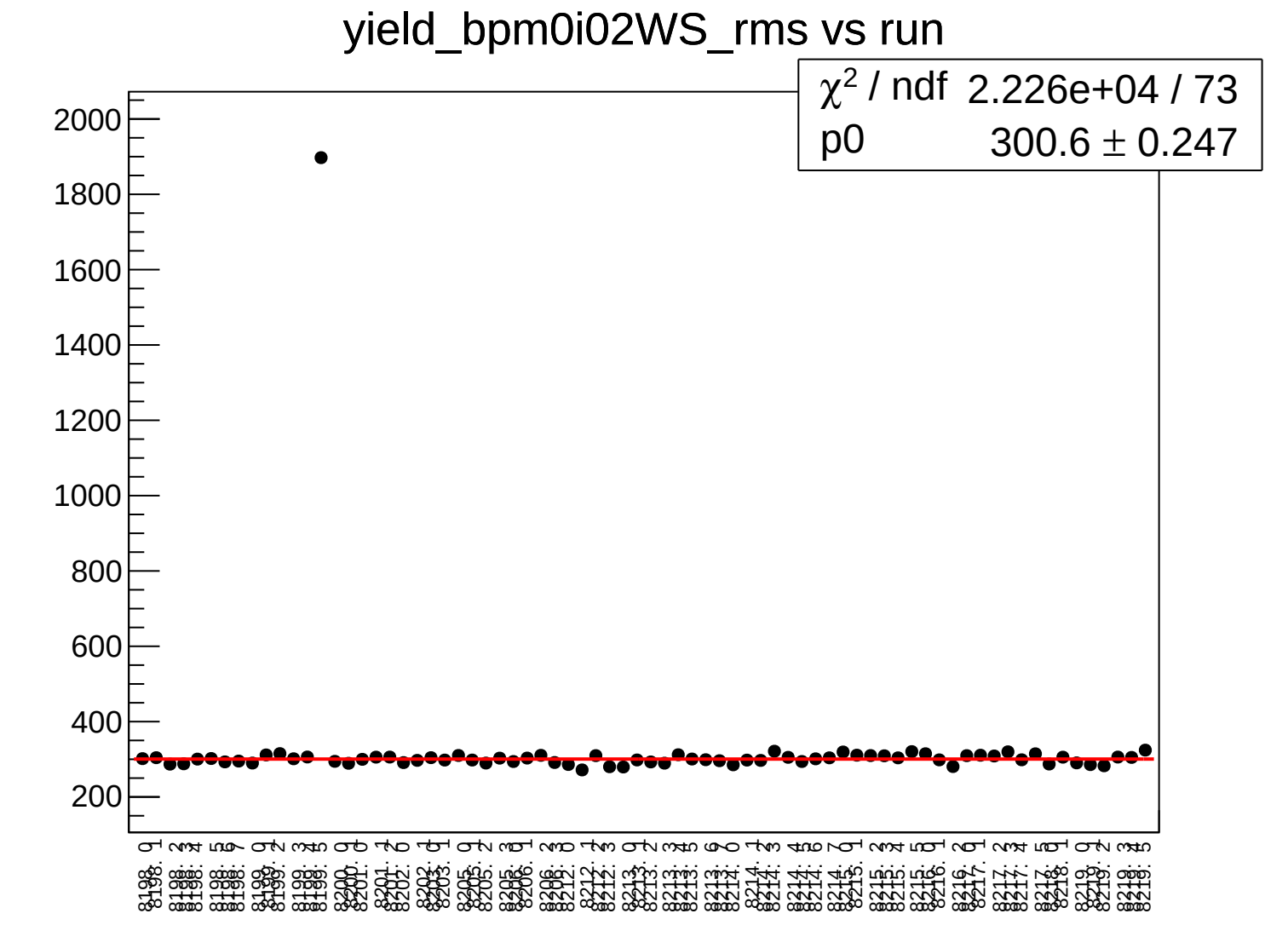

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 5.386e+05 / 73
p0 1.379e+05 ± 0.6676
138.5
138
137.5
137
136.5
136
135.5
135
134.5
pull
Entries 74
Mean 2439
Std Dev 2395
150
100
50
0
−50
−100
−150
−200

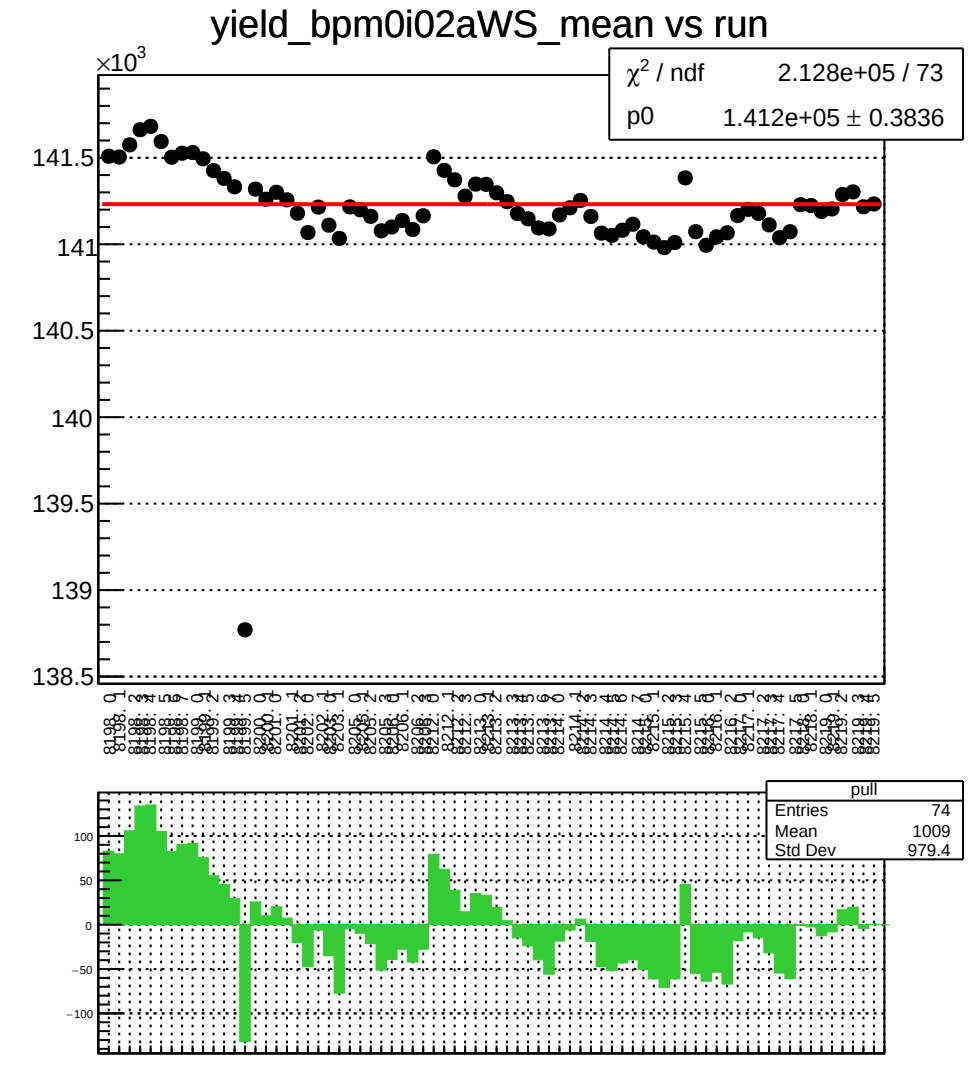

pull1D
Entries 74
Mean 4.802
Std Dev 2.151
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

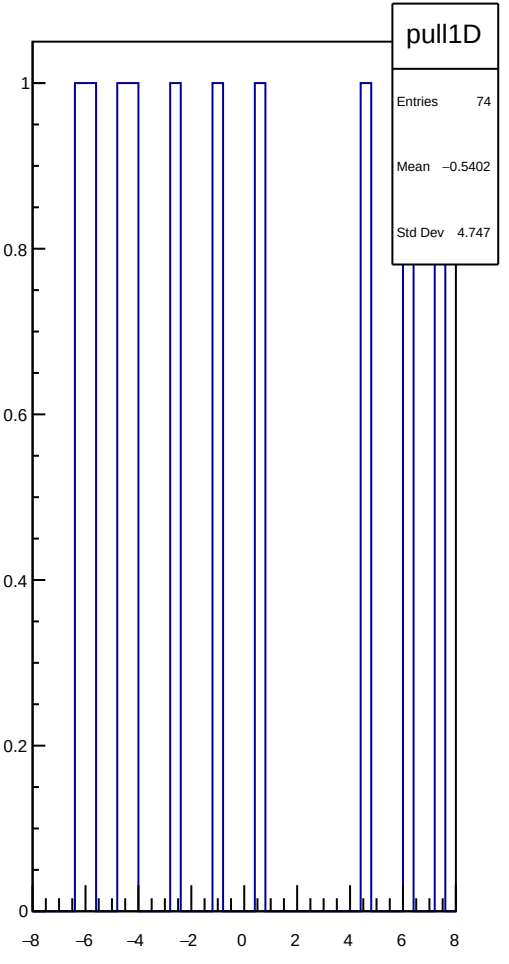

yield_bpm0r05WS_rms vs run
χ² / ndf 2.045e+04 / 73
p0 574.8 ± 0.4721
2500
2000
1500
1000
500

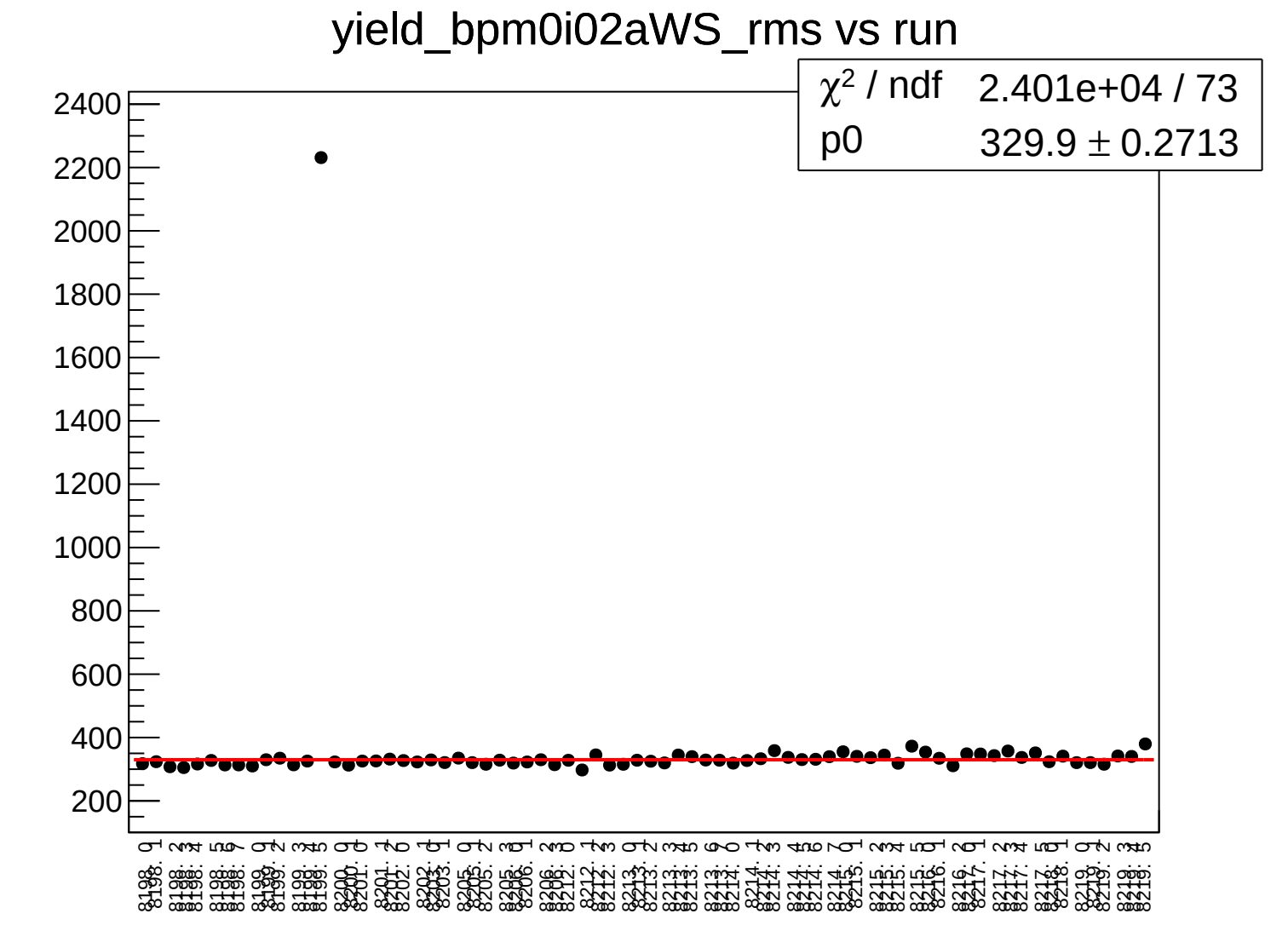

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 5.943e+04 / 73
p0 1.384e+05 ± 0.3493
138.5
138
137.5
137
136.5
136
pull
Entries 74
Mean 297.5
Std Dev 261.9
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

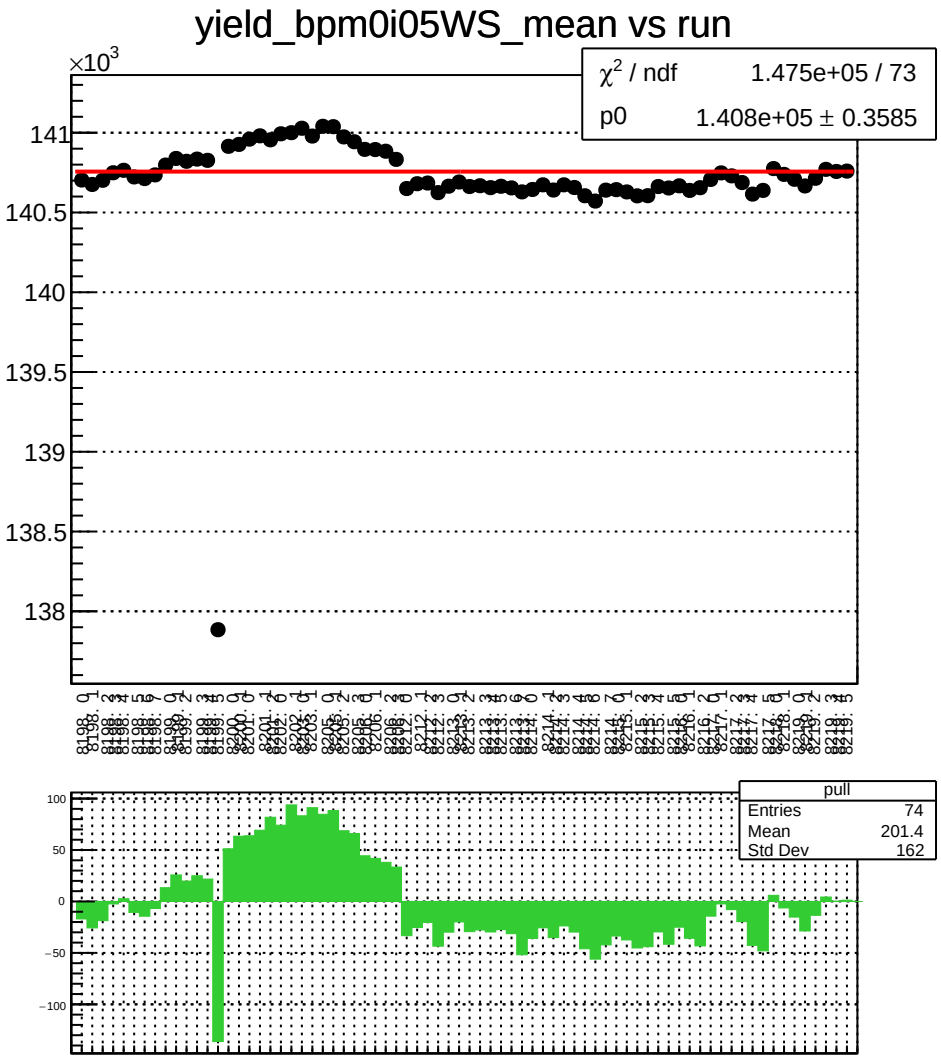

pull1D
Entries 74
Mean −0.2166
Std Dev 4.668
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

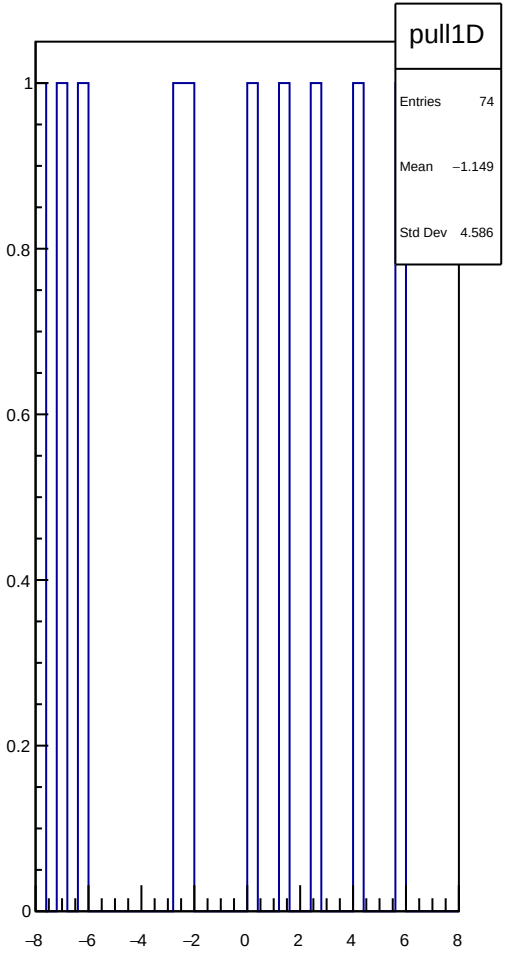

yield_bpm0i02WS_rms vs run
χ² / ndf 2.226e+04 / 73
p0 300.6 ± 0.247
2000
1800
1600
1400
1200
1000
800
600
400
200

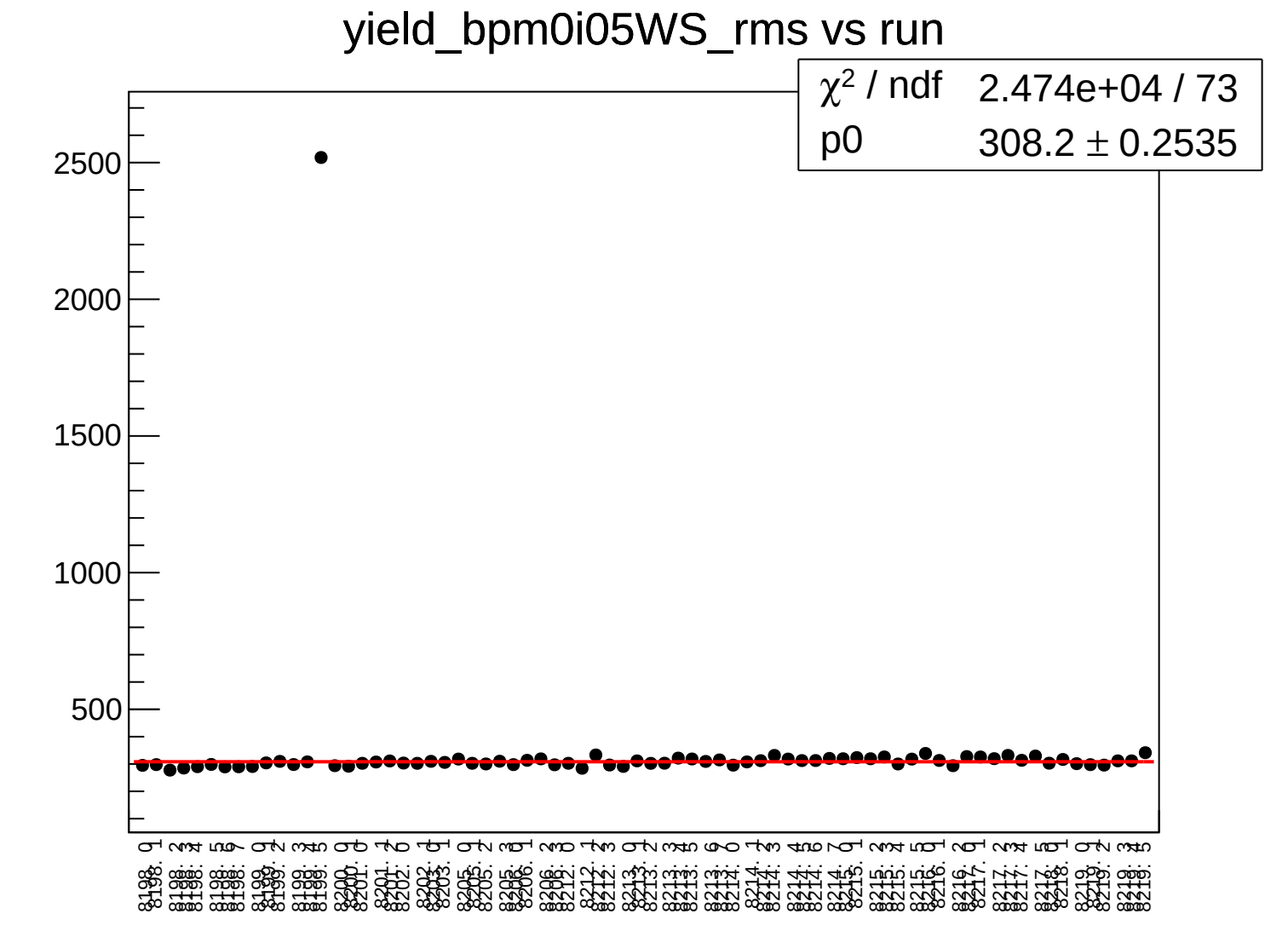

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.128e+05 / 73
p0 1.412e+05 ± 0.3836
141.5
141
140.5
140
139.5
139
138.5
pull
Entries 74
Mean 1009
Std Dev 979.4
100
50
0
−50
−100

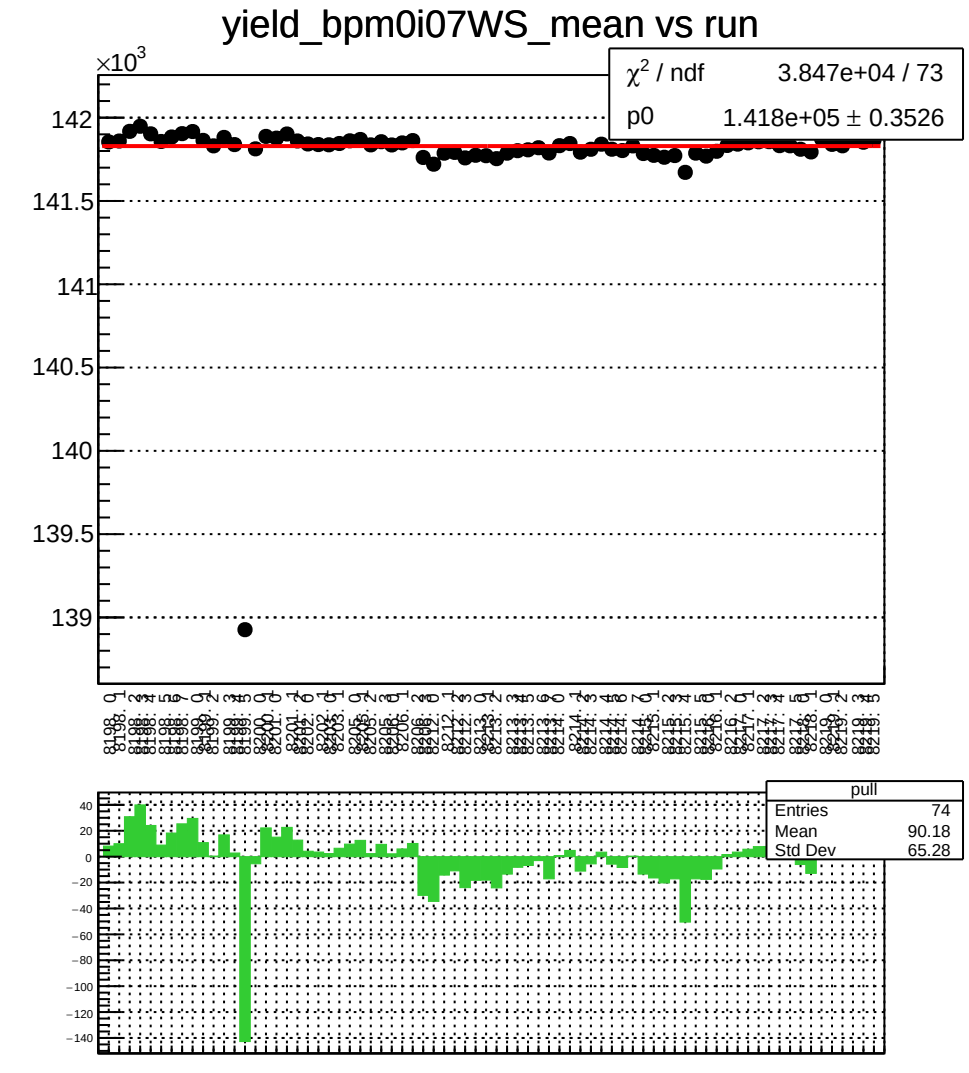

pull1D
Entries 74
Mean −0.5402
Std Dev 4.747
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

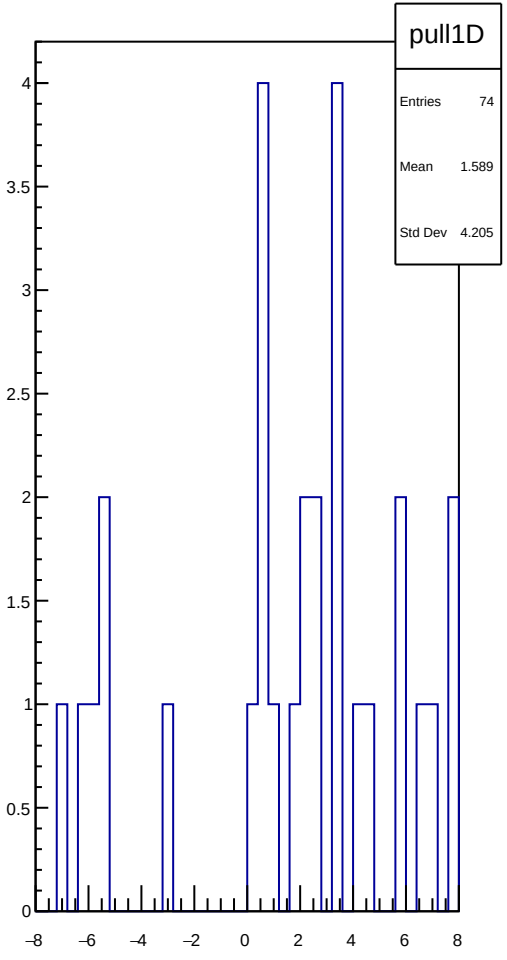

yield_bpm0i02aWS_rms vs run
χ^2 / ndf 2.401e+04 / 73
p0 329.9 ± 0.2713
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

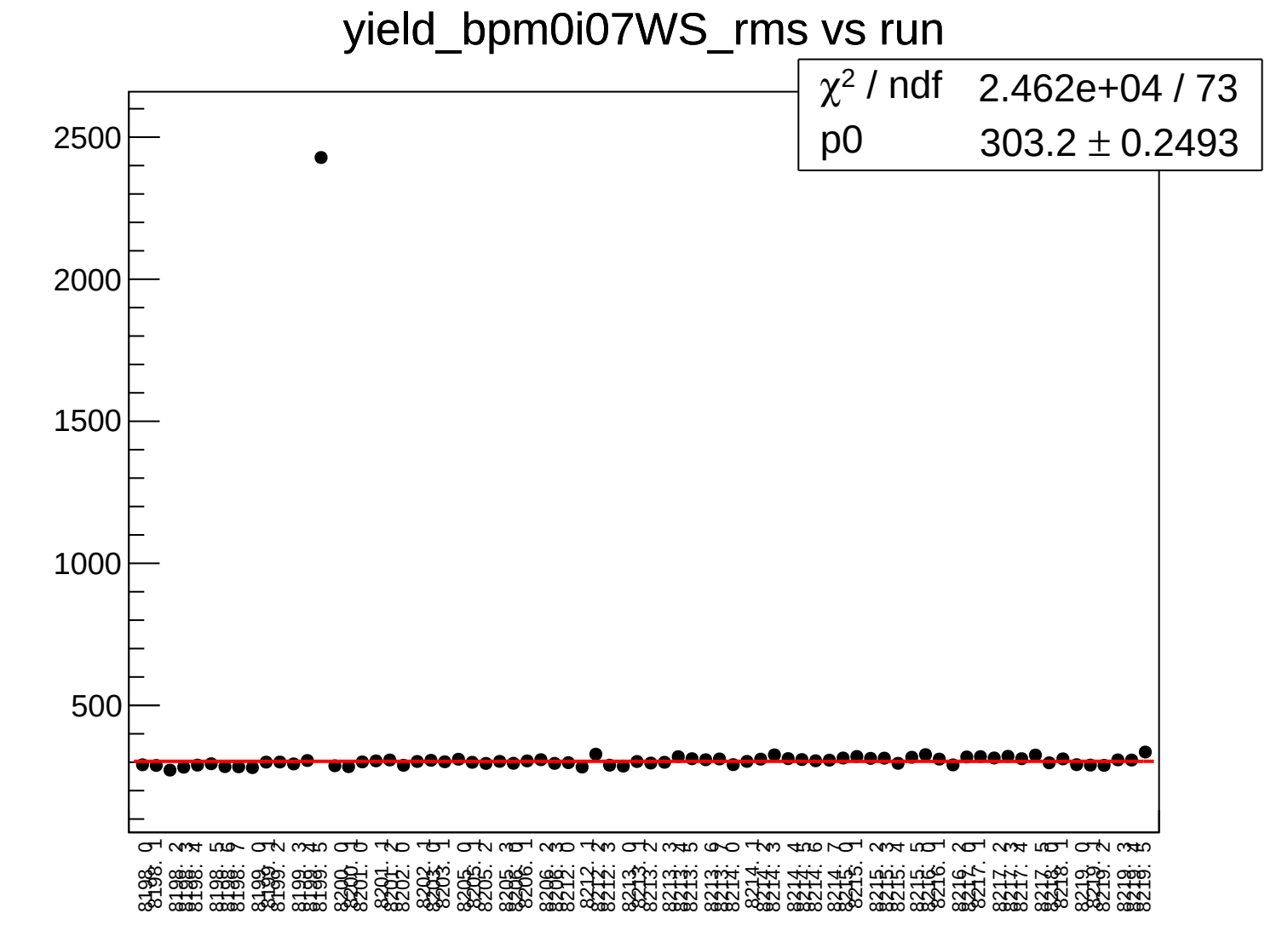

yield_bpm0i05WS_mean vs run
×10^3
χ² / ndf 1.475e+05 / 73
p0 1.408e+05 ± 0.3585
141
140.5
140
139.5
139
138.5
138
pull
Entries 74
Mean 201.4
Std Dev 162
100
50
0
−50
−100

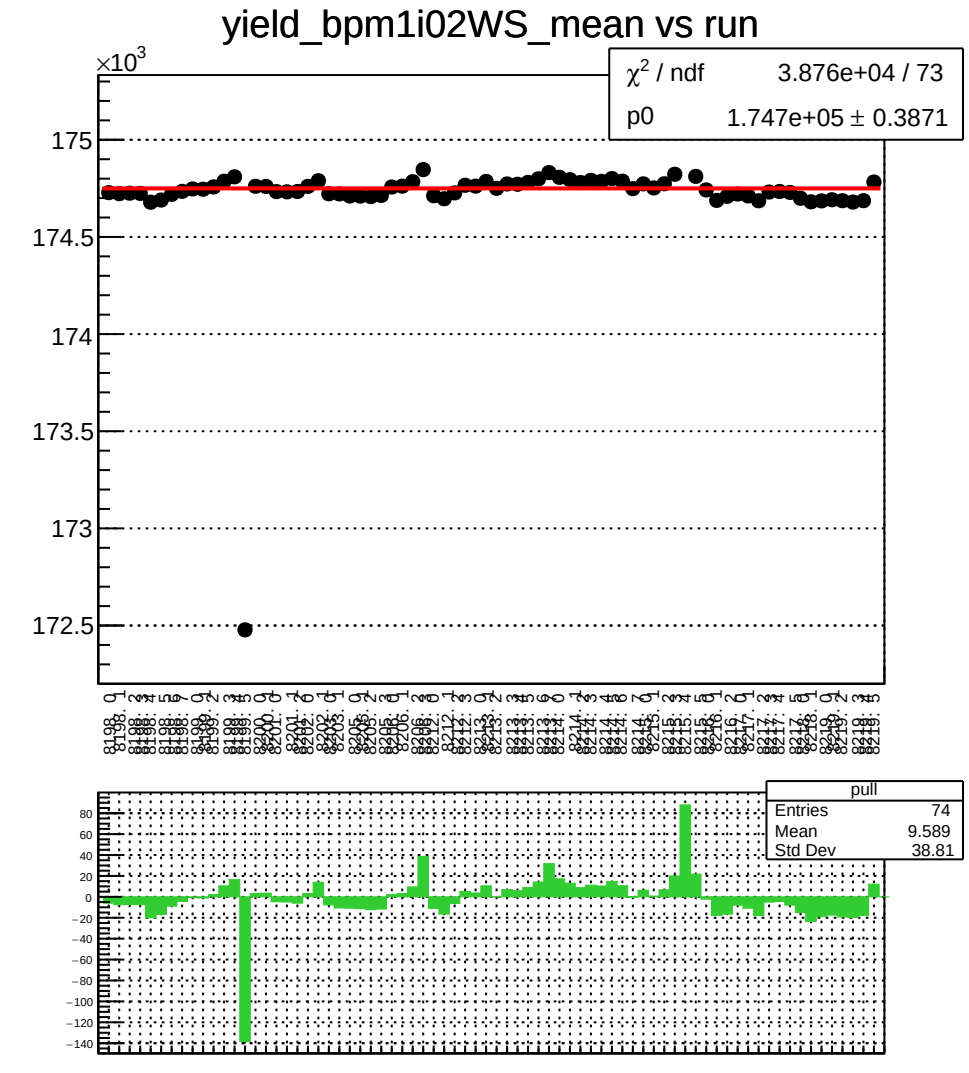

pull1D
Entries 74
Mean −1.149
Std Dev 4.586
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

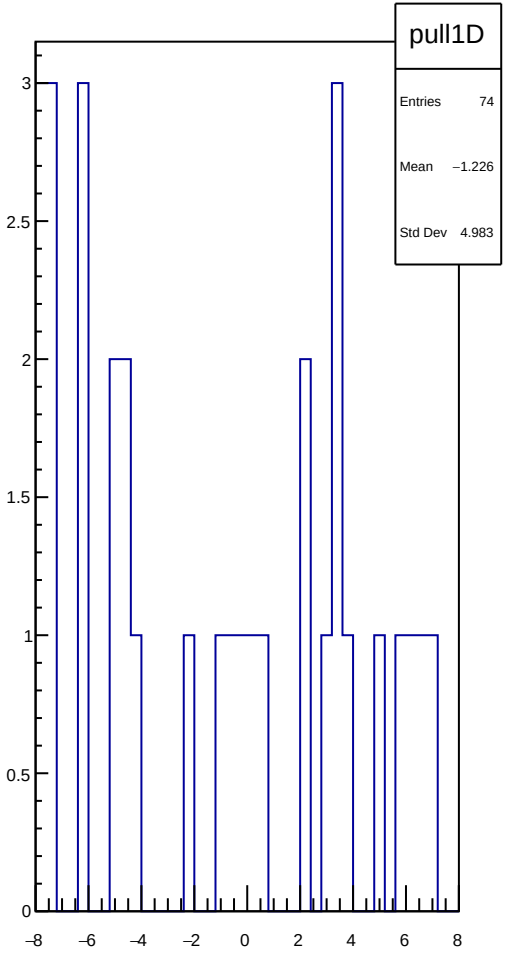

yield_bpm0i05WS_rms vs run
χ² / ndf 2.474e+04 / 73
p0 308.2 ± 0.2535
2500
2000
1500
1000
500

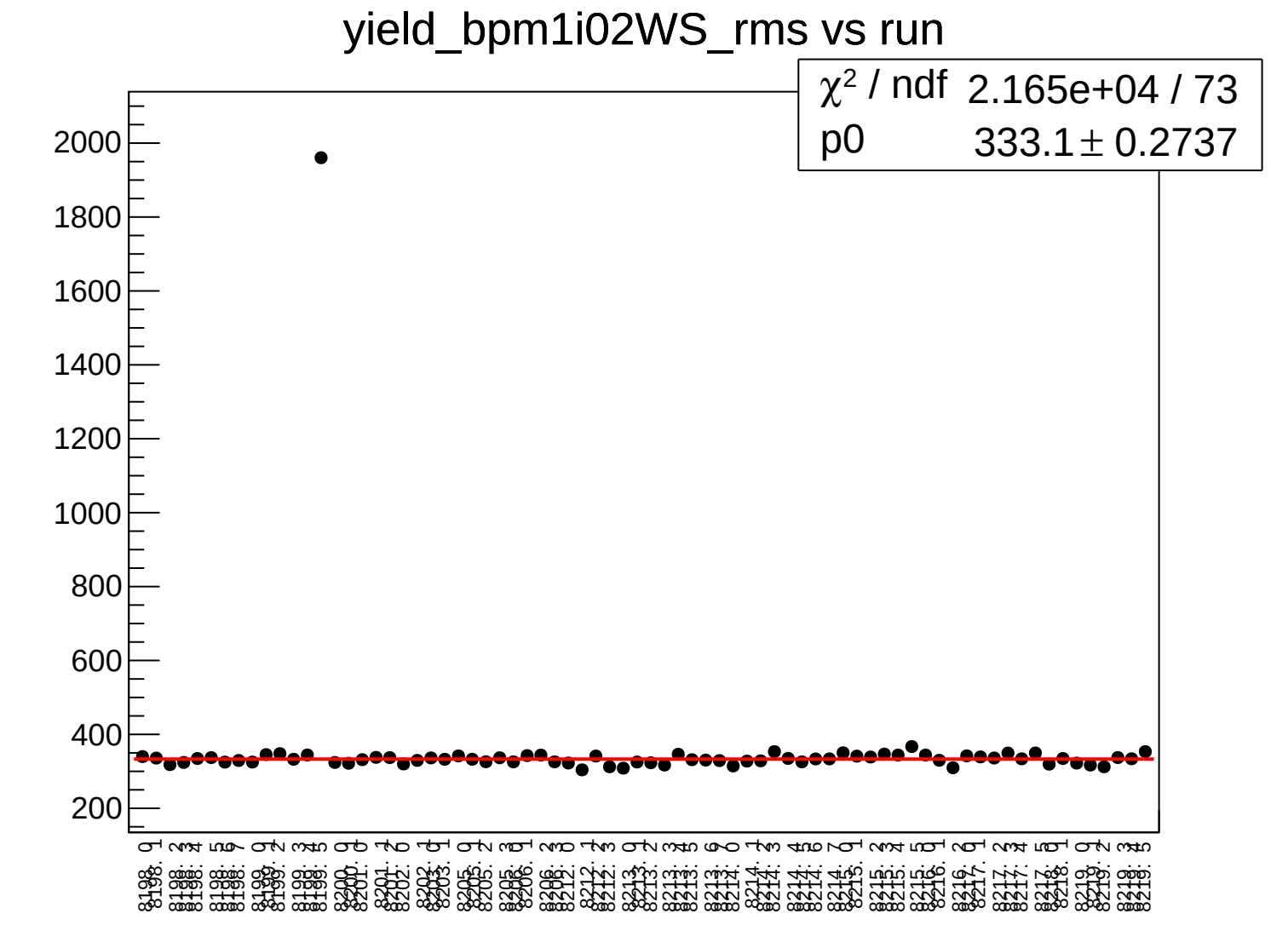

yield_bpm0i07WS_mean vs run
×10^3
χ² / ndf 3.847e+04 / 73
p0 1.418e+05 ± 0.3526
142
141.5
141
140.5
140
139.5
139
pull
Entries 74
Mean 90.18
Std Dev 65.28
40
20
0
−20
−40
−60
−80
−100
−120
−140

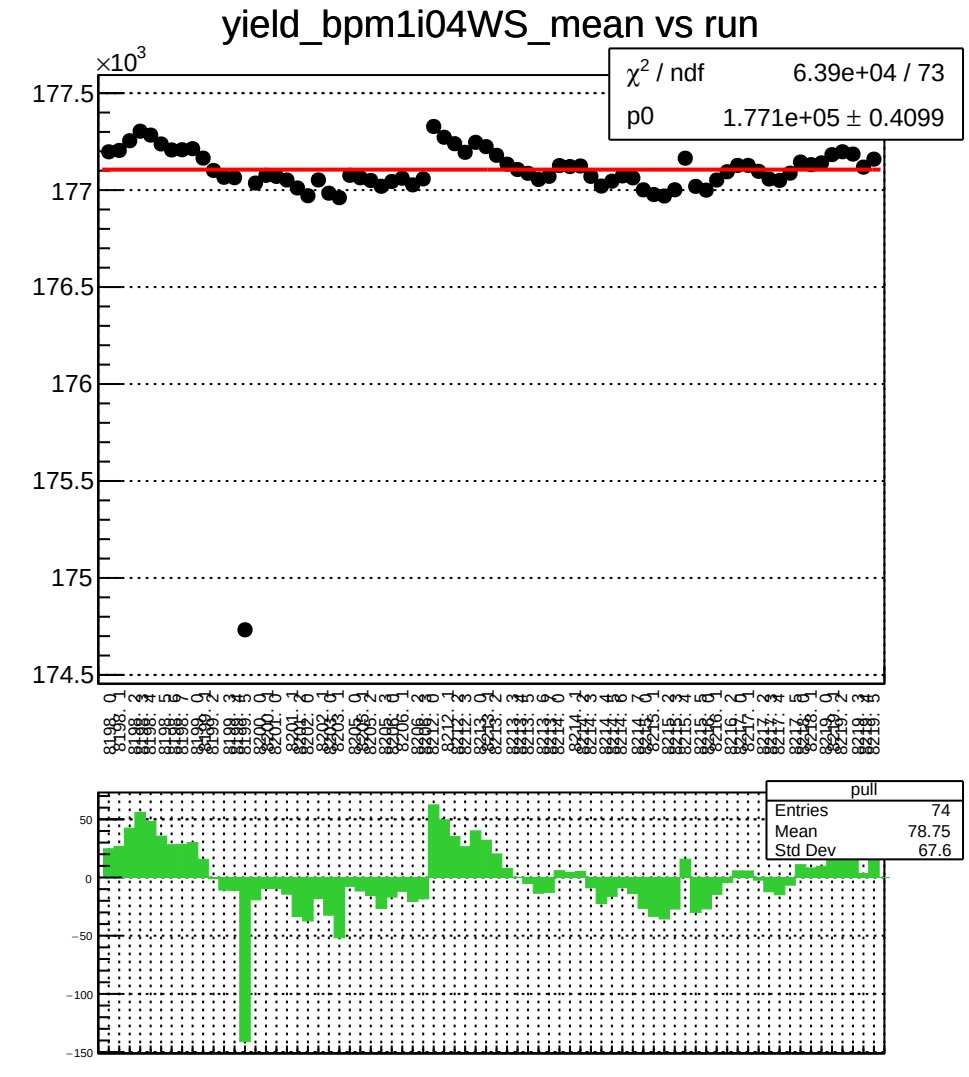

pull1D
Entries 74
Mean 1.589
Std Dev 4.205
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

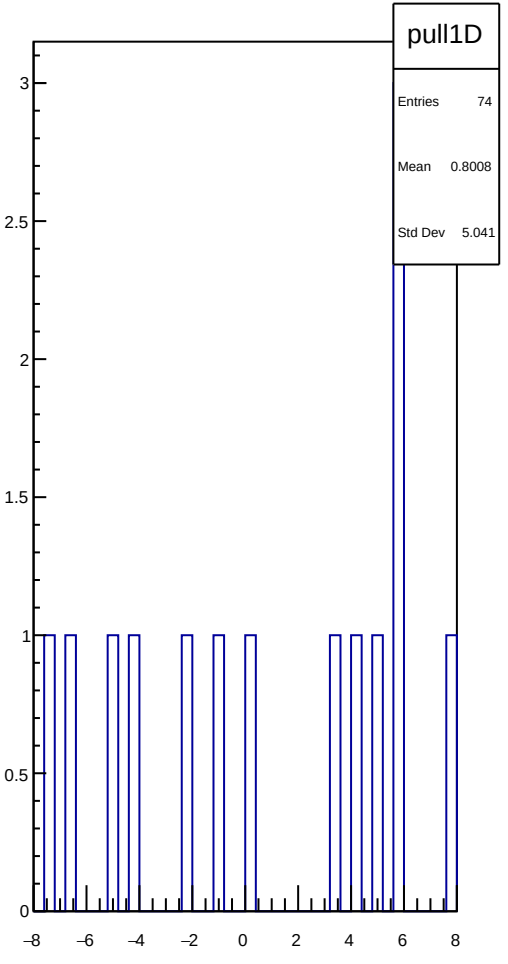

yield_bpm0i07WS_rms vs run
χ² / ndf 2.462e+04 / 73
p0 303.2 ± 0.2493
2500
2000
1500
1000
500

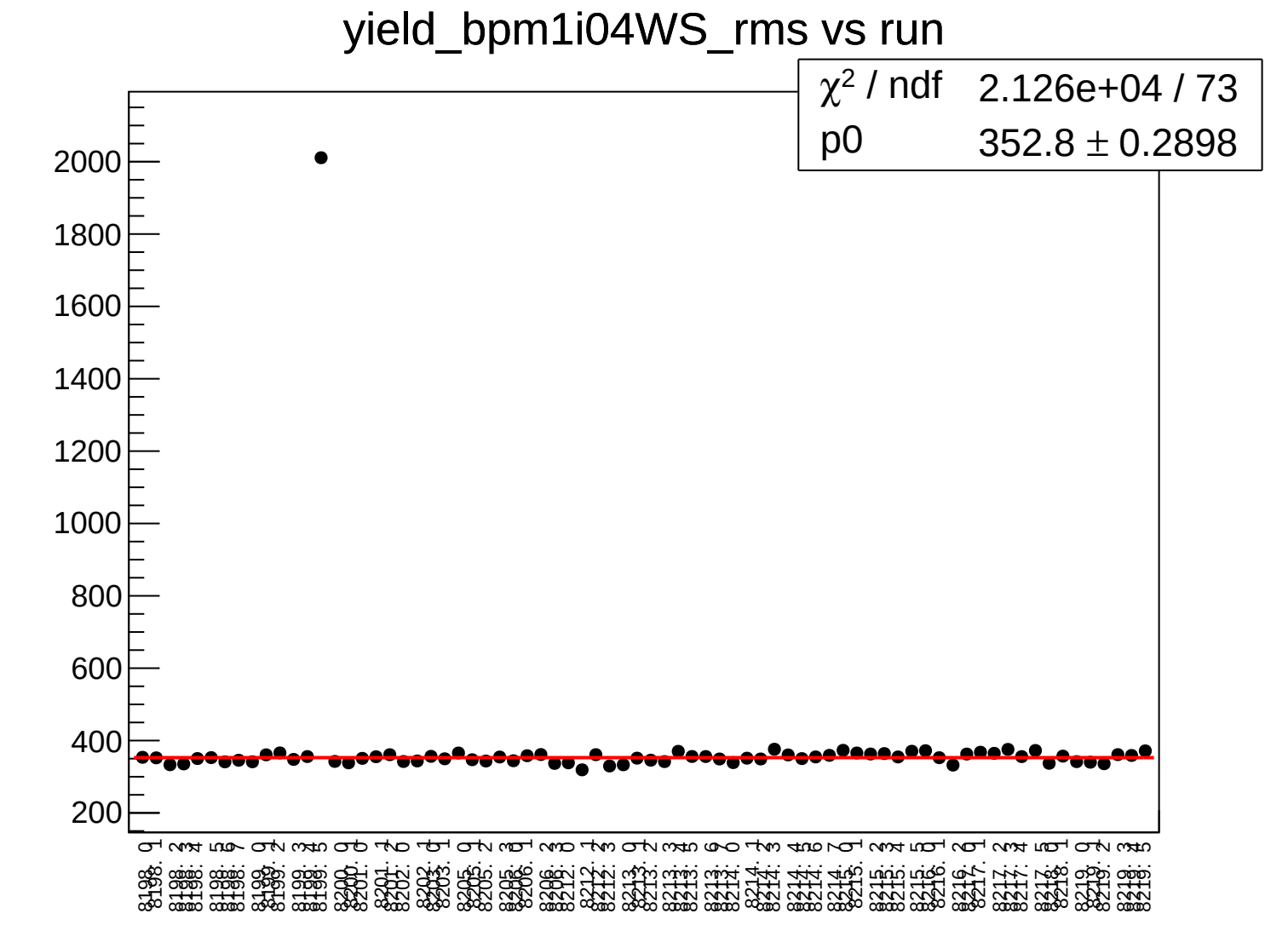

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.876e+04 / 73
p0 1.747e+05 ± 0.3871
175
174.5
174
173.5
173
172.5
pull
Entries 74
Mean 9.589
Std Dev 38.81
80
60
40
20
0
−20
−40
−60
−80
−100
−120
−140

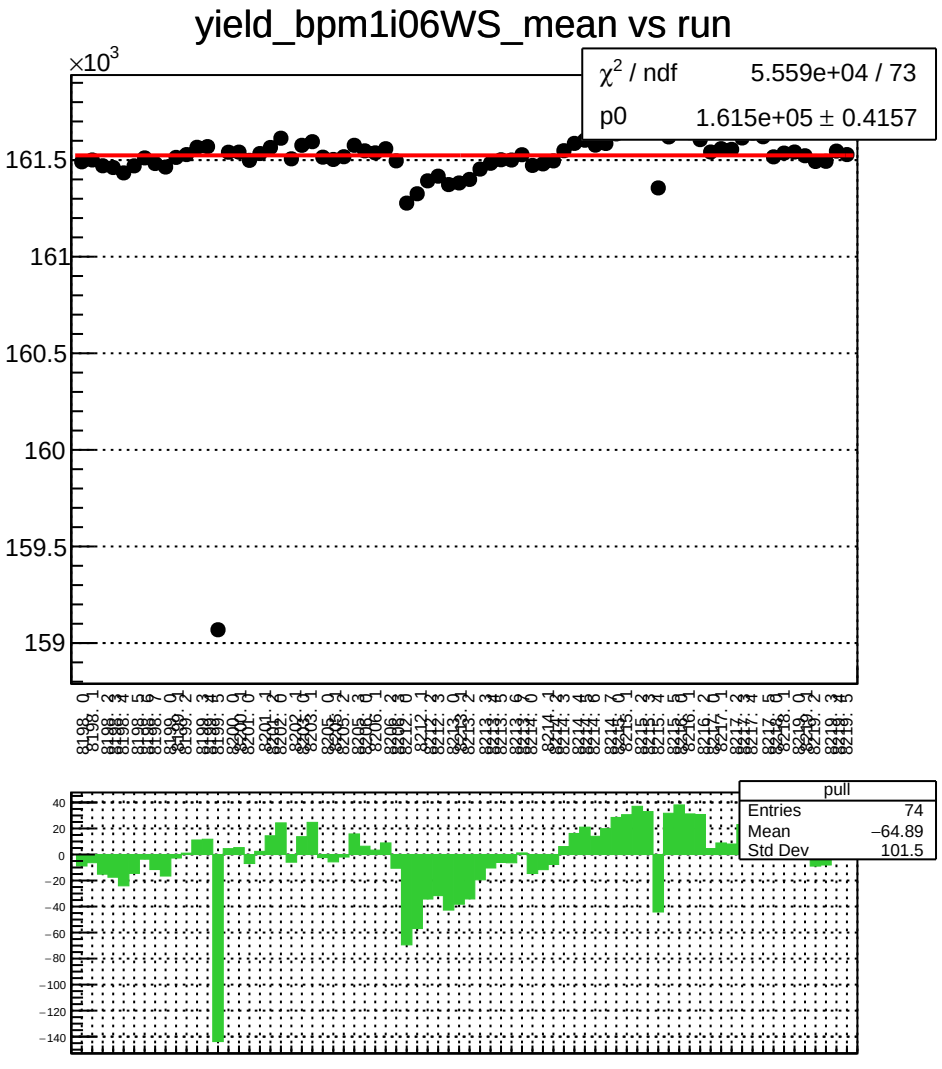

pull1D
Entries 74
Mean −1.226
Std Dev 4.983
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

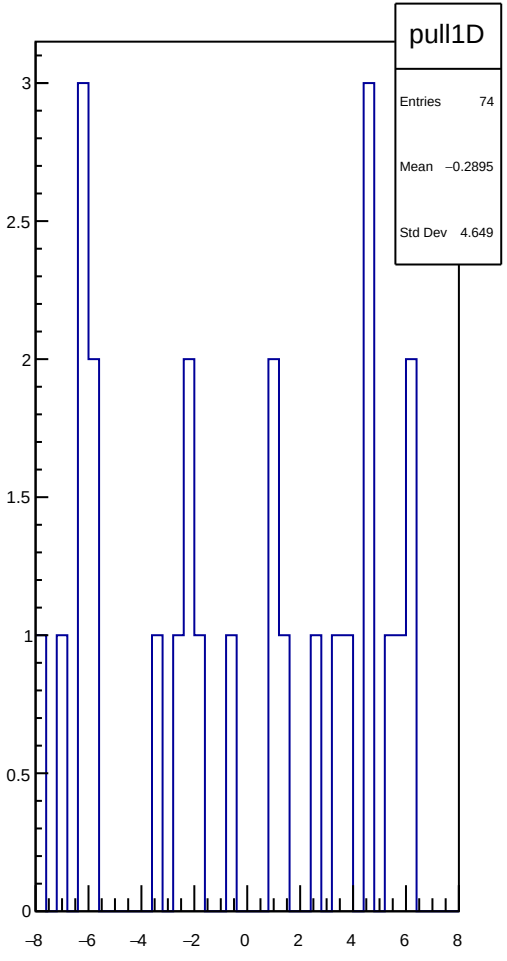

yield_bpm1i02WS_rms vs run
χ² / ndf 2.165e+04 / 73
p0 333.1 ± 0.2737
2000
1800
1600
1400
1200
1000
800
600
400
200

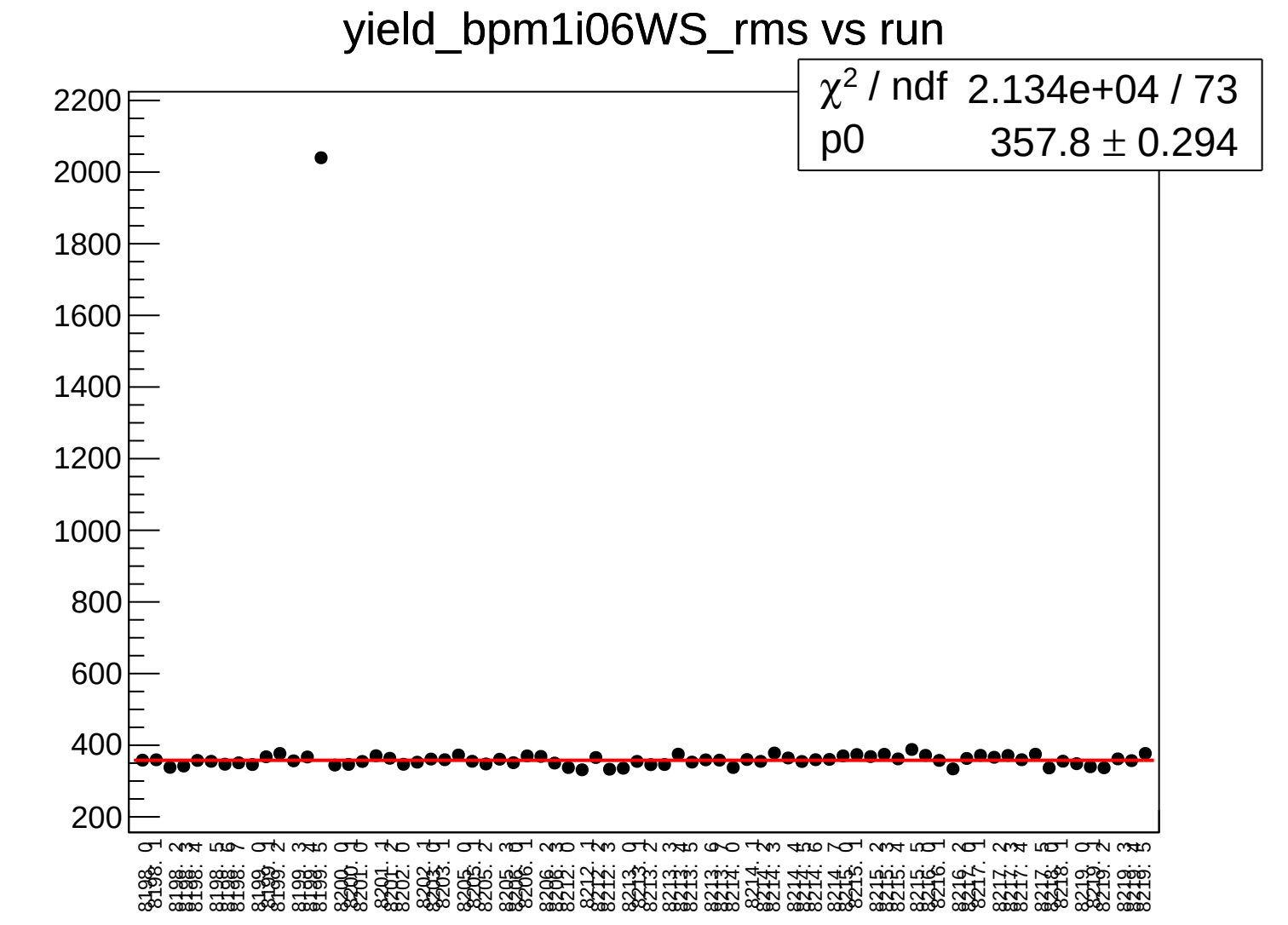

yield_bpm1i04WS_mean vs run
×10^3
χ^2 / ndf 6.39e+04 / 73
p0 1.771e+05 ± 0.4099
177.5
177
176.5
176
175.5
175
174.5
pull
Entries 74
Mean 78.75
Std Dev 67.6
50
0
−50
−100
−150

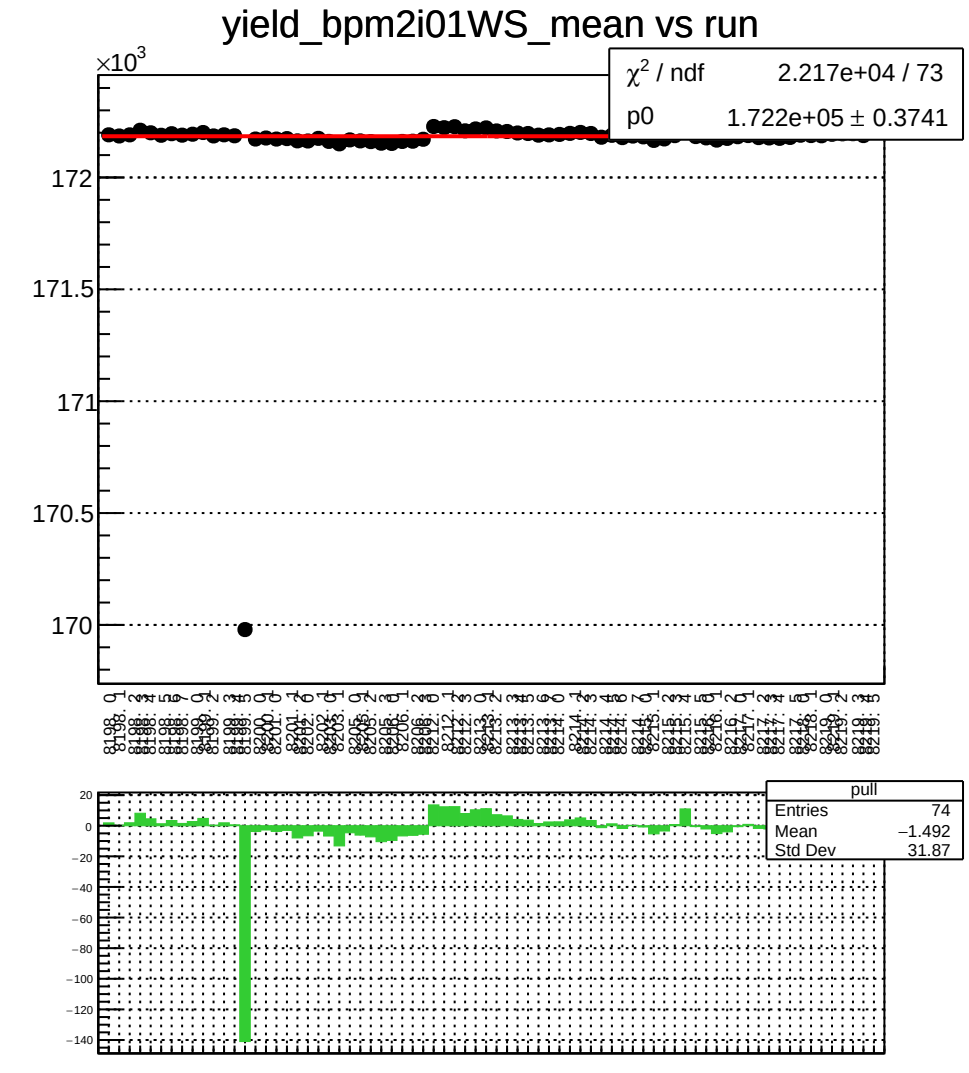

pull1D
Entries 74
Mean 0.8008
Std Dev 5.041
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

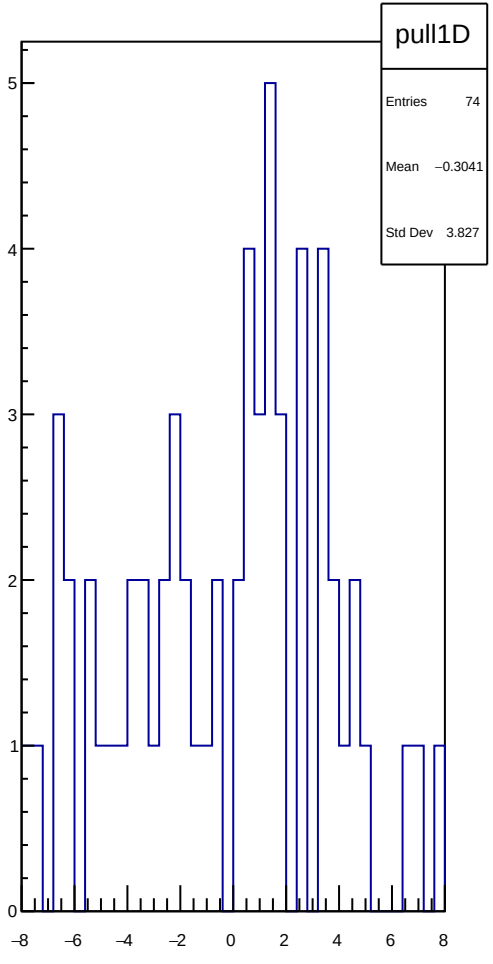

yield_bpm1i04WS_rms vs run
χ² / ndf 2.126e+04 / 73
p0 352.8 ± 0.2898
2000
1800
1600
1400
1200
1000
800
600
400
200

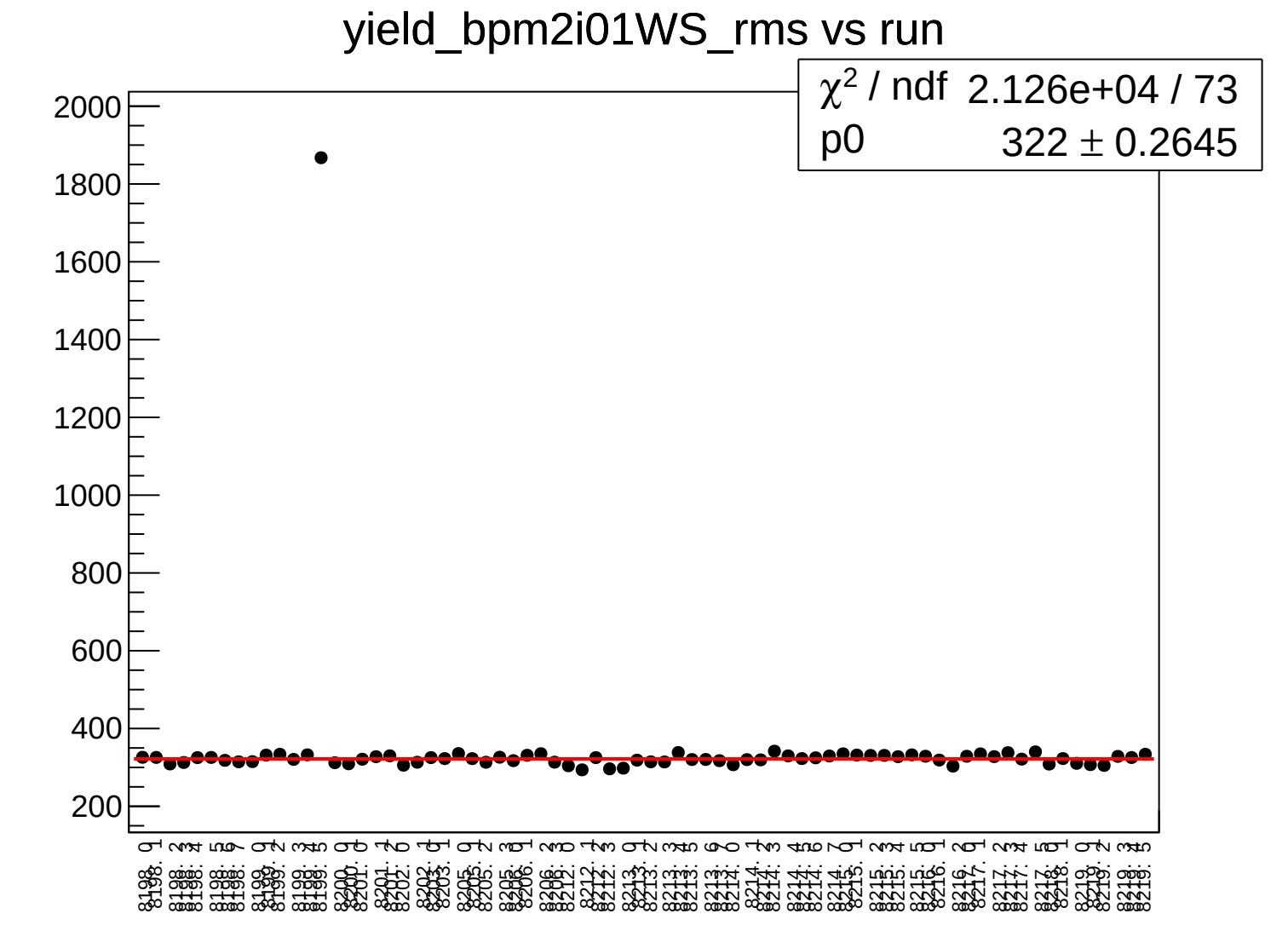

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 5.559e+04 / 73
p0 1.615e+05 ± 0.4157
161.5
161
160.5
160
159.5
159
pull
Entries 74
Mean −64.89
Std Dev 101.5
40
20
0
−20
−40
−60
−80
−100
−120
−140

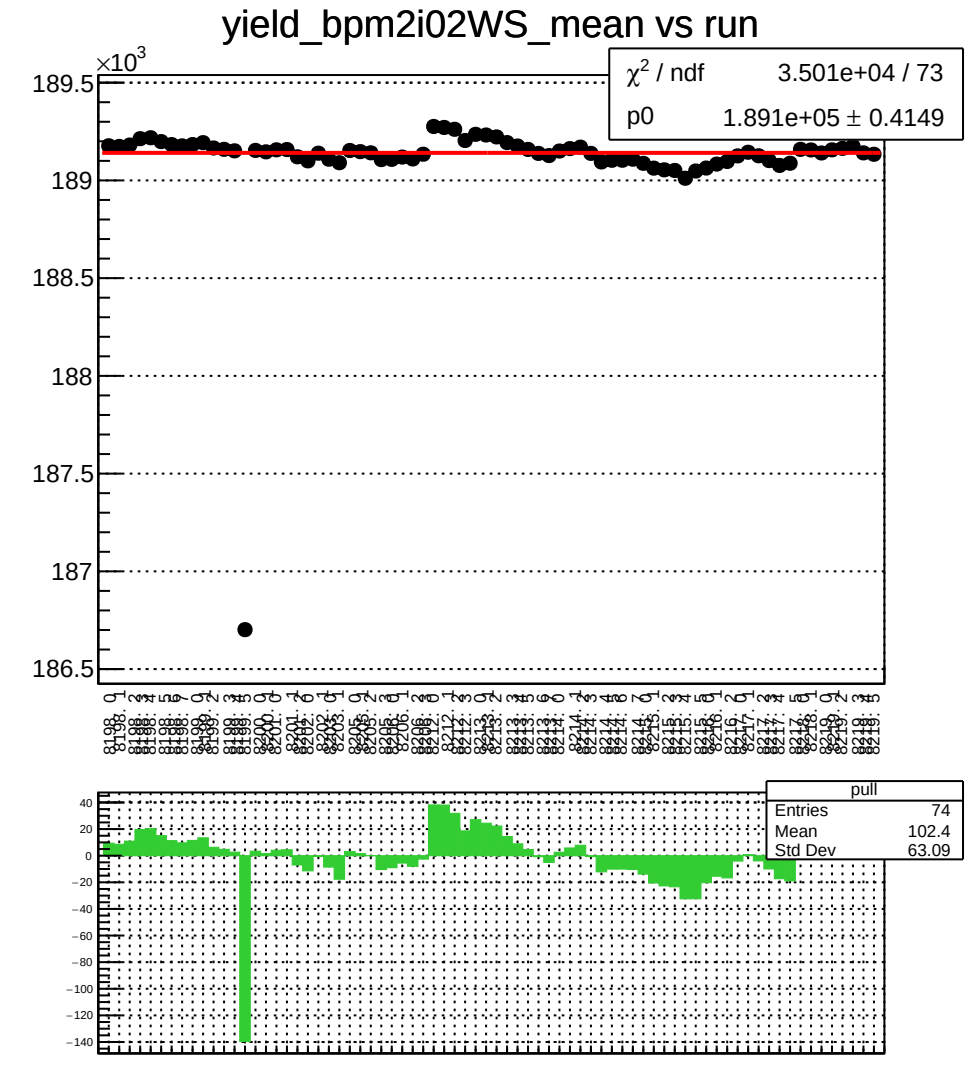

pull1D
Entries 74
Mean −0.2895
Std Dev 4.649
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

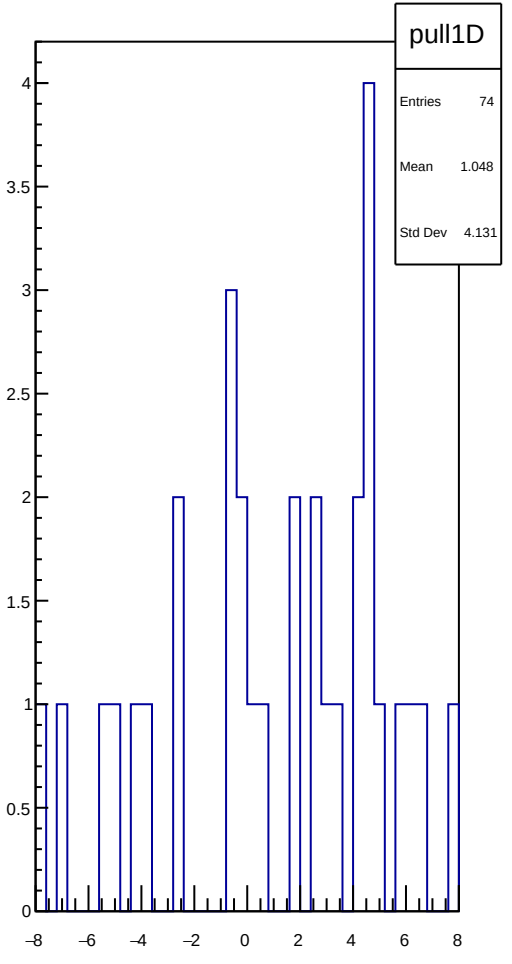

yield_bpm1i06WS_rms vs run
χ² / ndf 2.134e+04 / 73
p0 357.8 ± 0.294
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

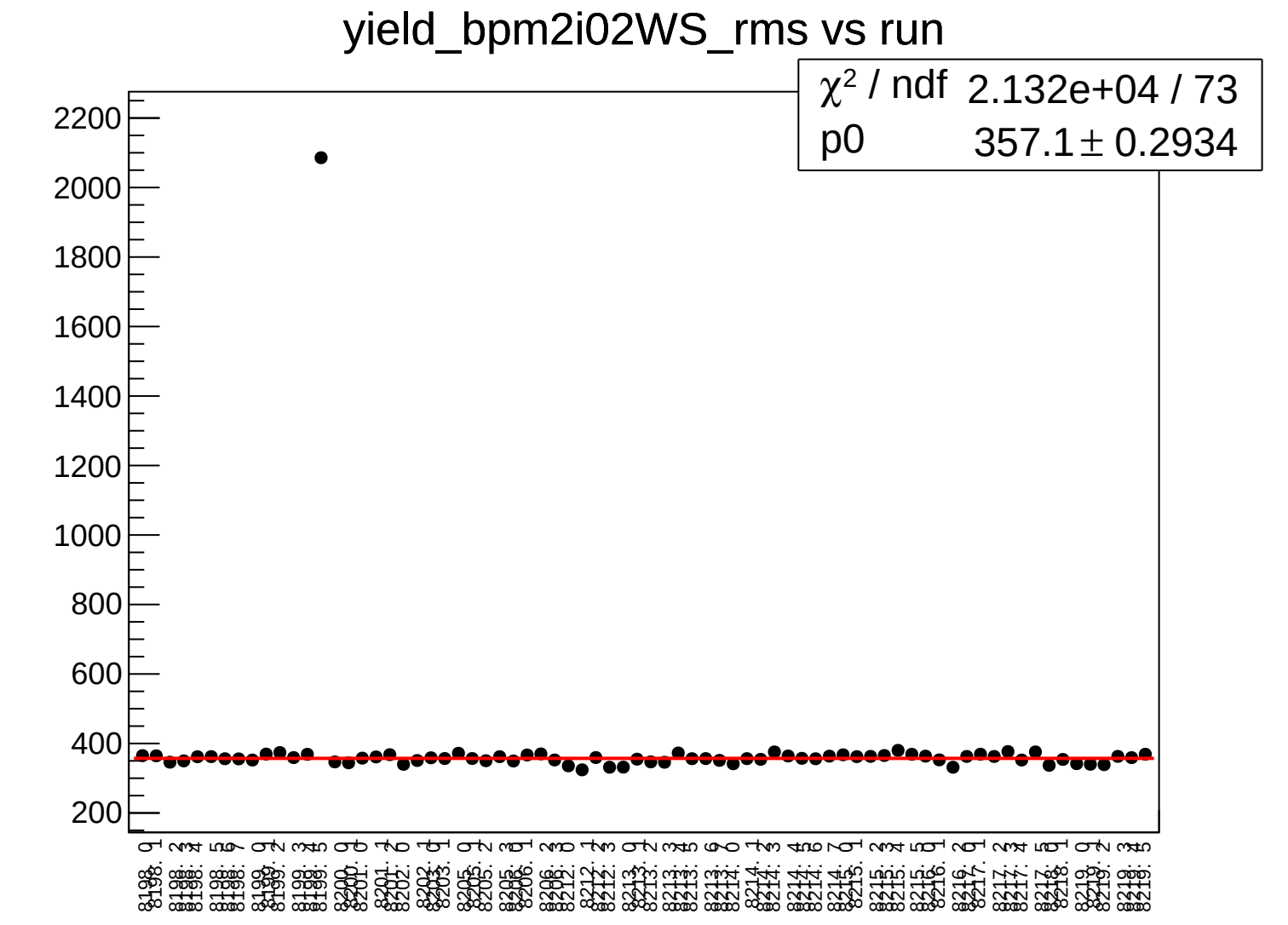

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 2.217e+04 / 73
p0 1.722e+05 ± 0.3741
172
171.5
171
170.5
170
pull
Entries 74
Mean −1.492
Std Dev 31.87
20
0
−20
−40
−60
−80
−100
−120
−140

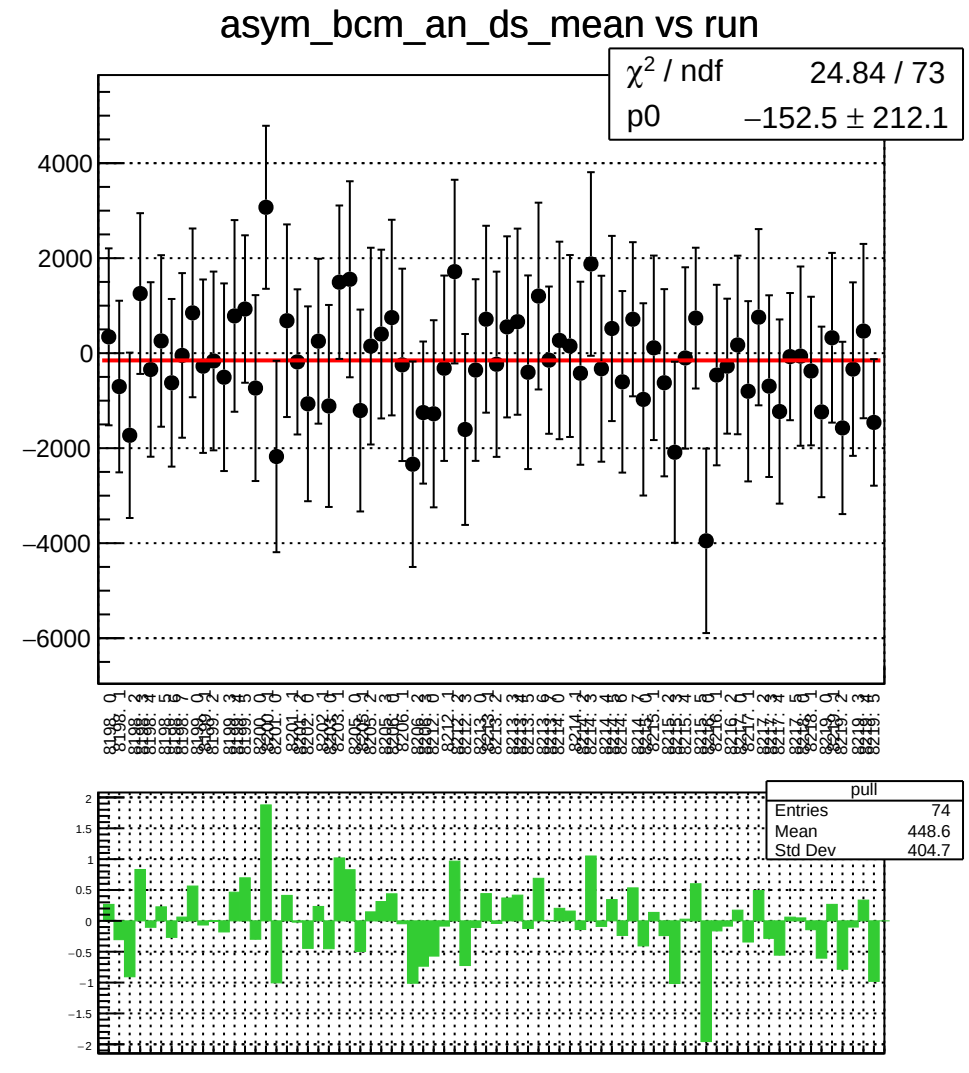

pull1D
Entries 74
Mean −0.3041
Std Dev 3.827
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

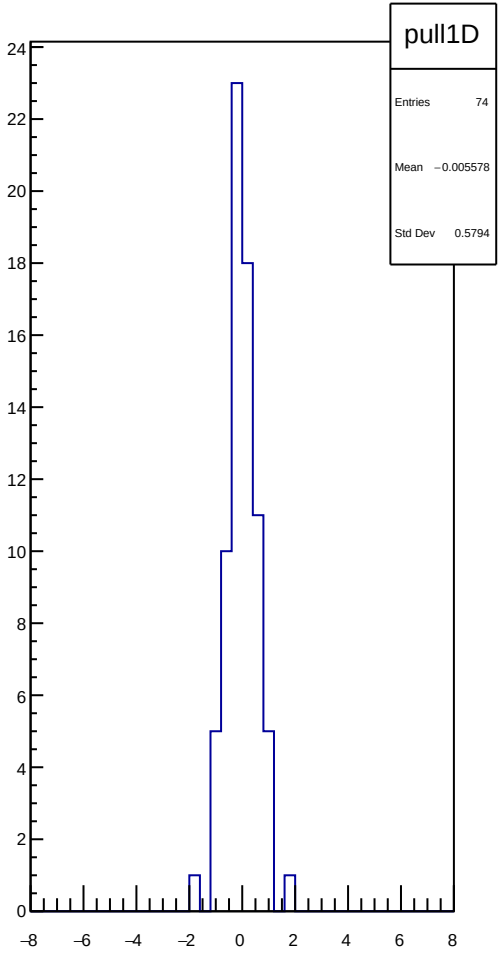

yield_bpm2i01WS_rms vs run
χ² / ndf 2.126e+04 / 73
p0 322 ± 0.2645
2000
1800
1600
1400
1200
1000
800
600
400
200

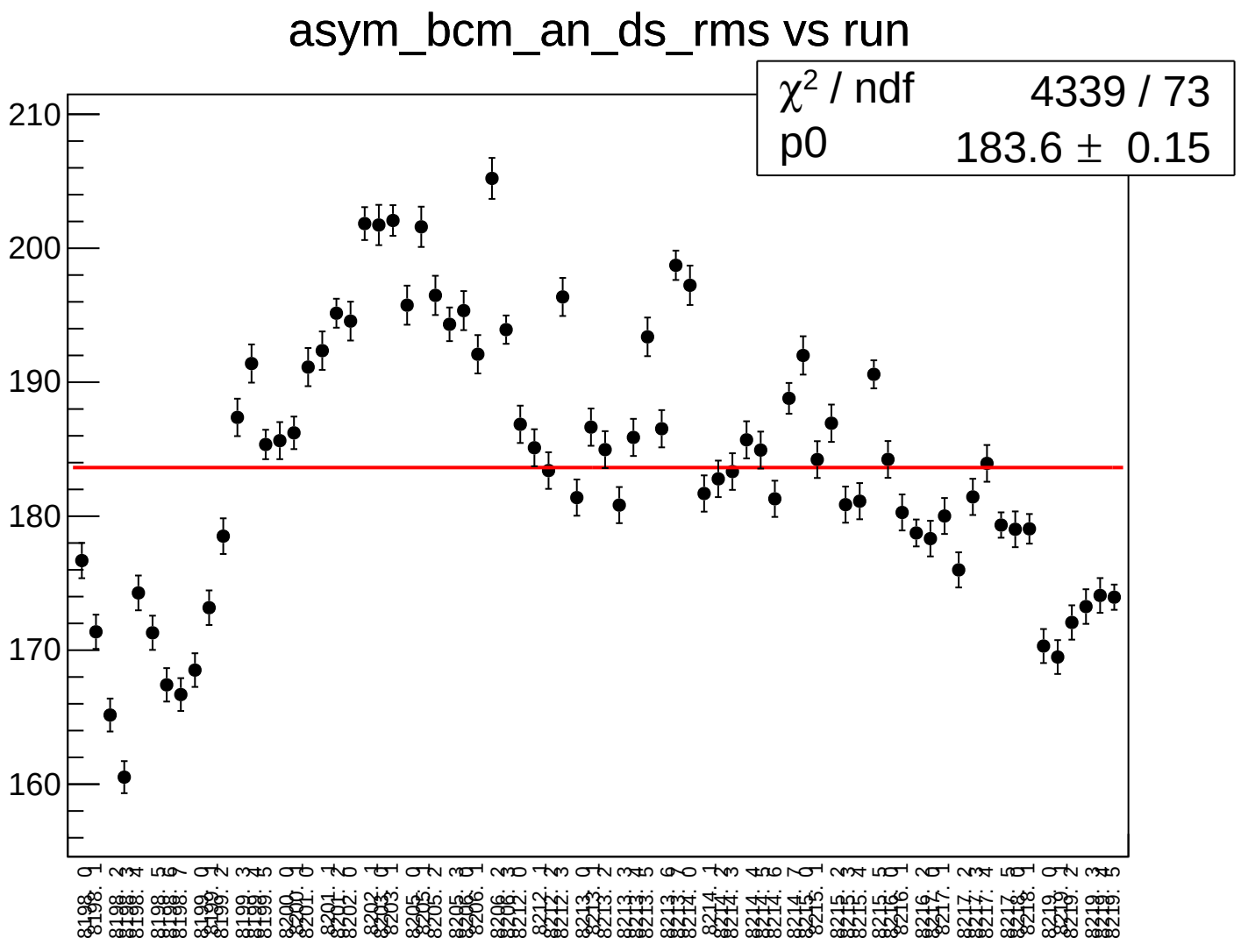

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 3.501e+04 / 73
p0 1.891e+05 ± 0.4149
189.5
189
188.5
188
187.5
187
186.5
pull
Entries 74
Mean 102.4
Std Dev 63.09
40
20
0
−20
−40
−60
−80
−100
−120
−140

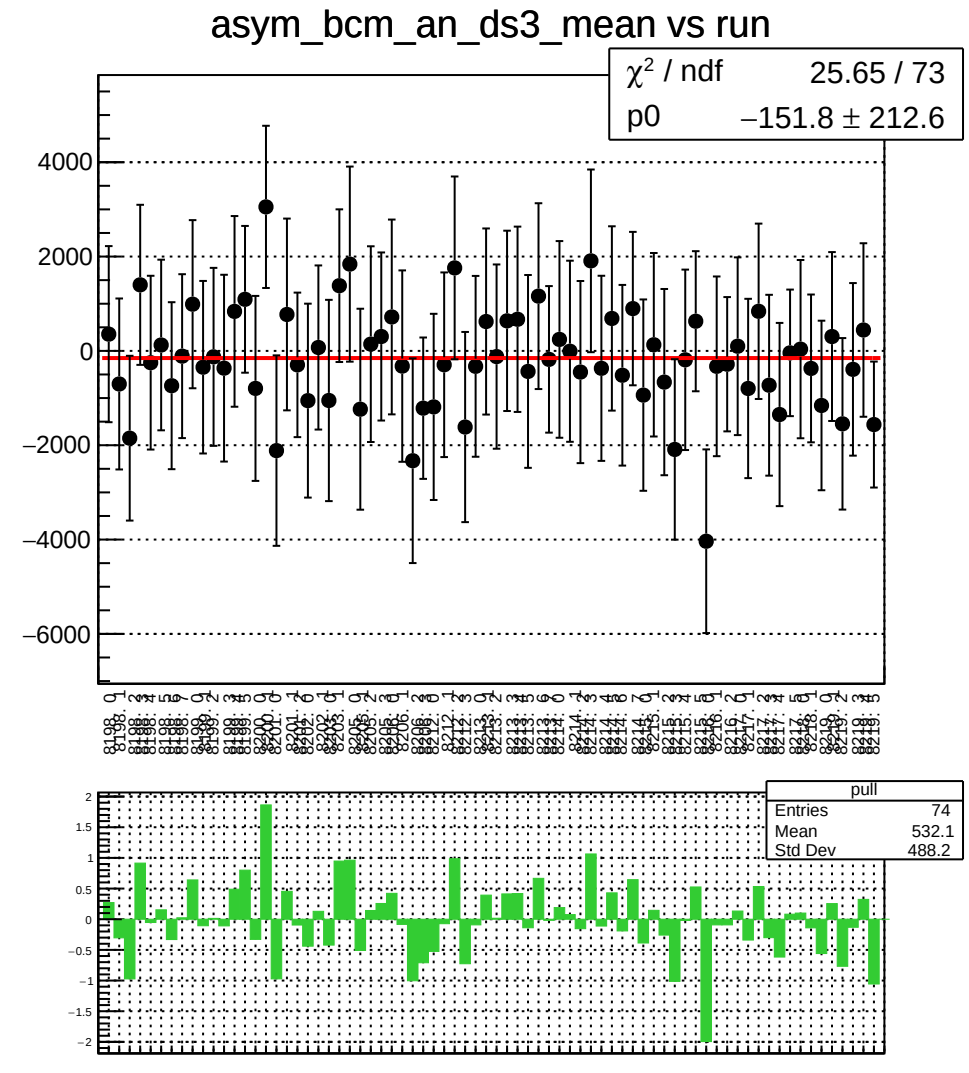

pull1D
Entries 74
Mean 1.048
Std Dev 4.131
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

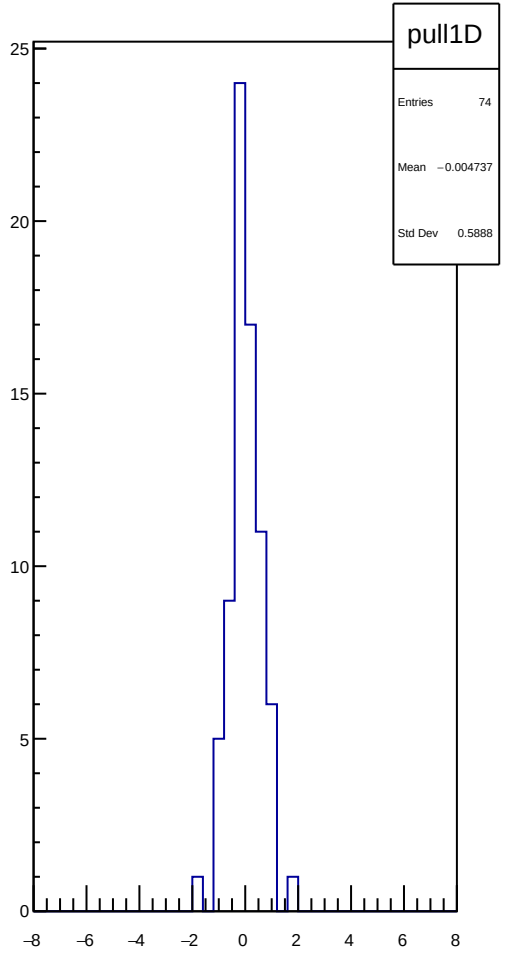

yield_bpm2i02WS_rms vs run
χ² / ndf 2.132e+04 / 73
p0 357.1 ± 0.2934
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

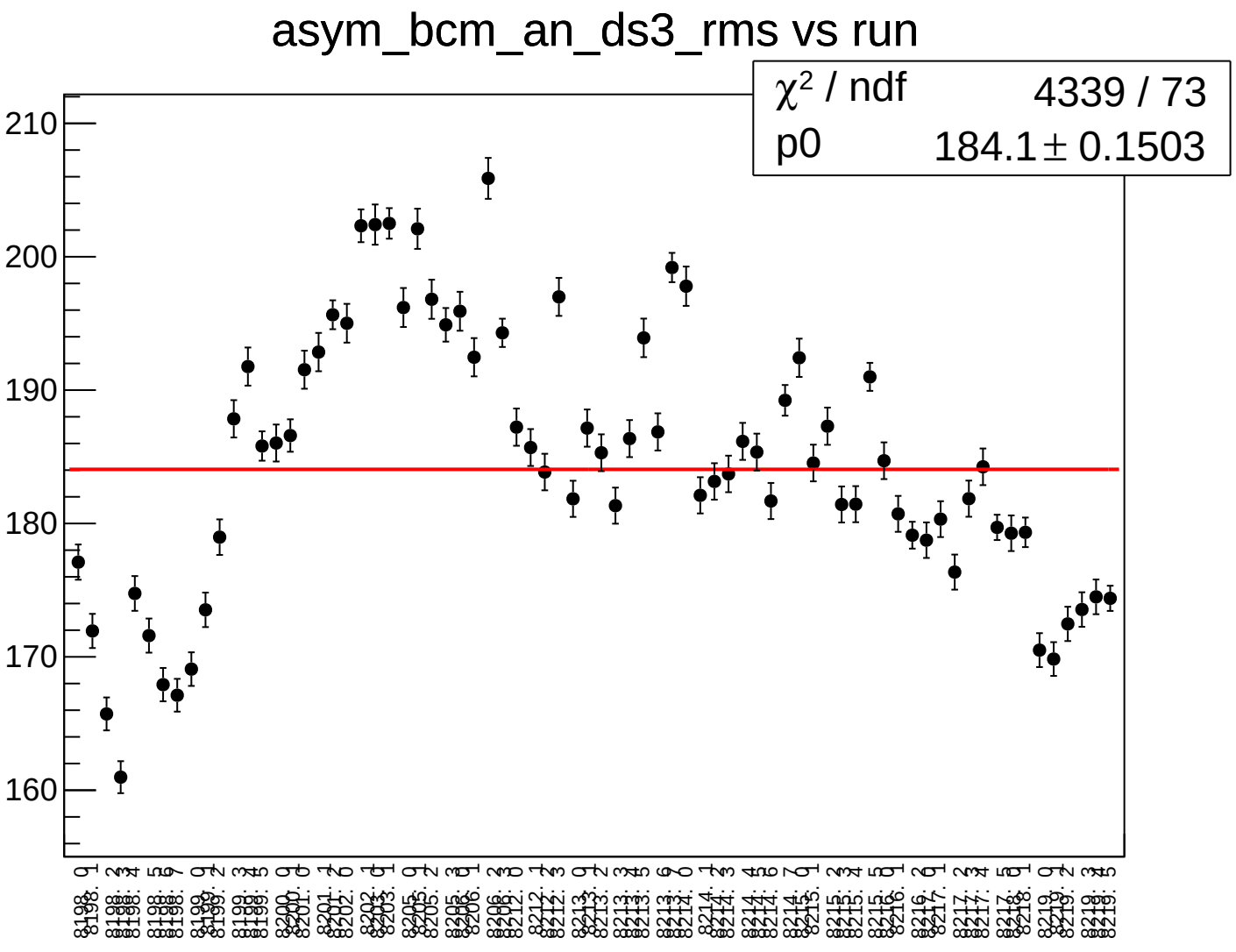

asym_bcm_an_ds_mean vs run
χ² / ndf 24.84 / 73
p0 −152.5 ± 212.1
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 448.6
Std Dev 404.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

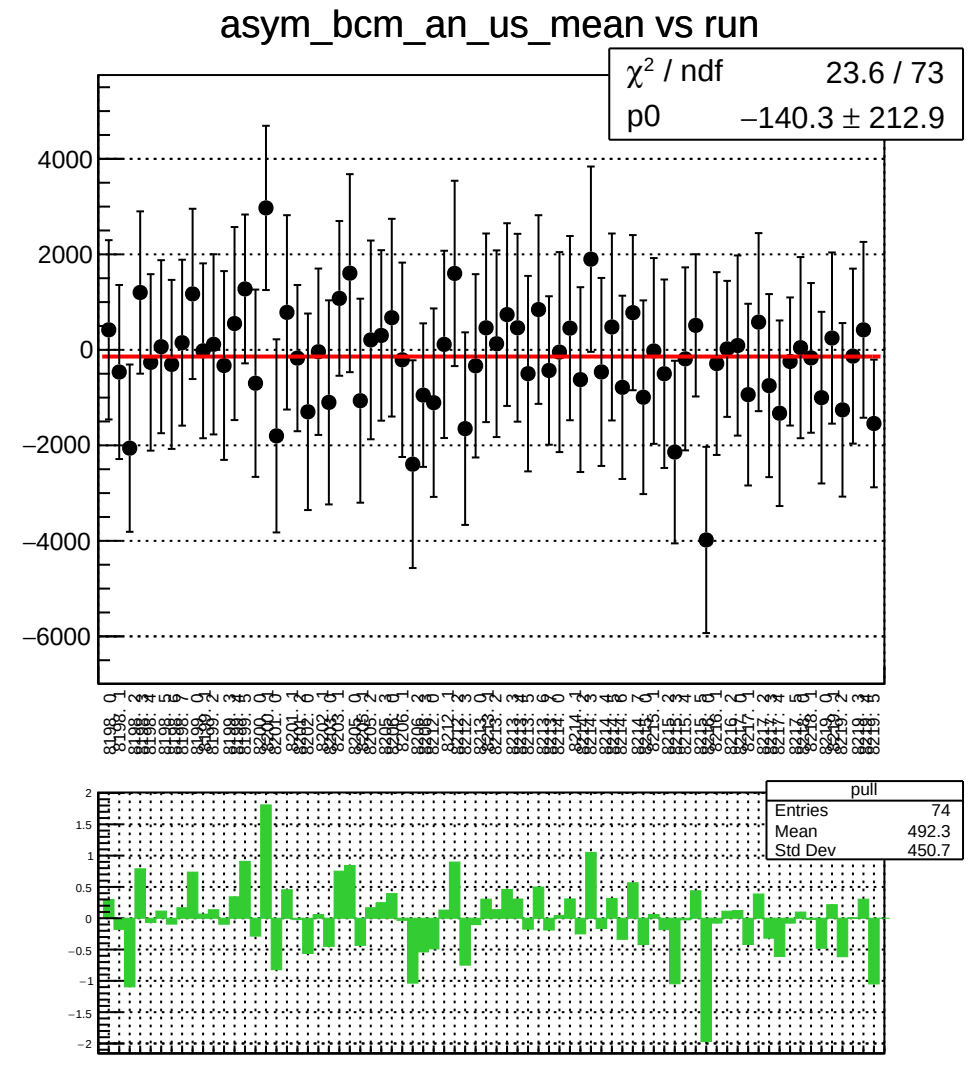

pull1D
Entries 74
Mean −0.005578
Std Dev 0.5794
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

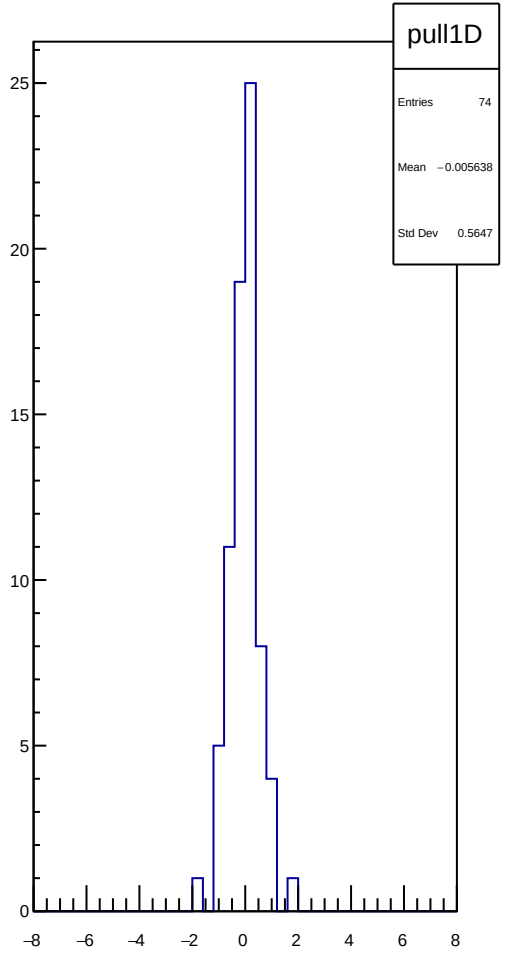

asym_bcm_an_ds_rms vs run
χ² / ndf 4339 / 73
p0 183.6 ± 0.15
210
200
190
180
170
160

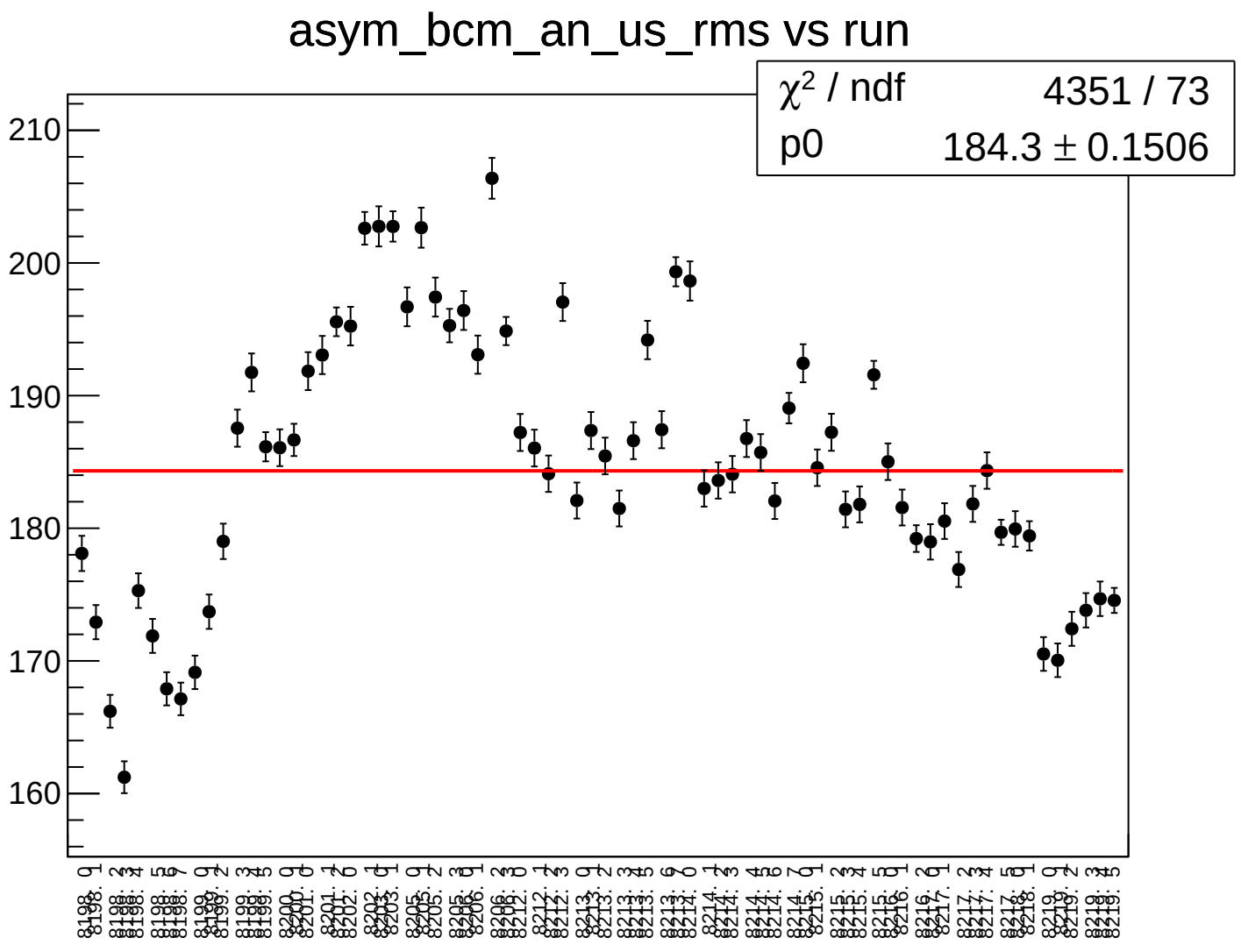

asym_bcm_an_ds3_mean vs run
χ² / ndf 25.65 / 73
p0 −151.8 ± 212.6
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 532.1
Std Dev 488.2
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

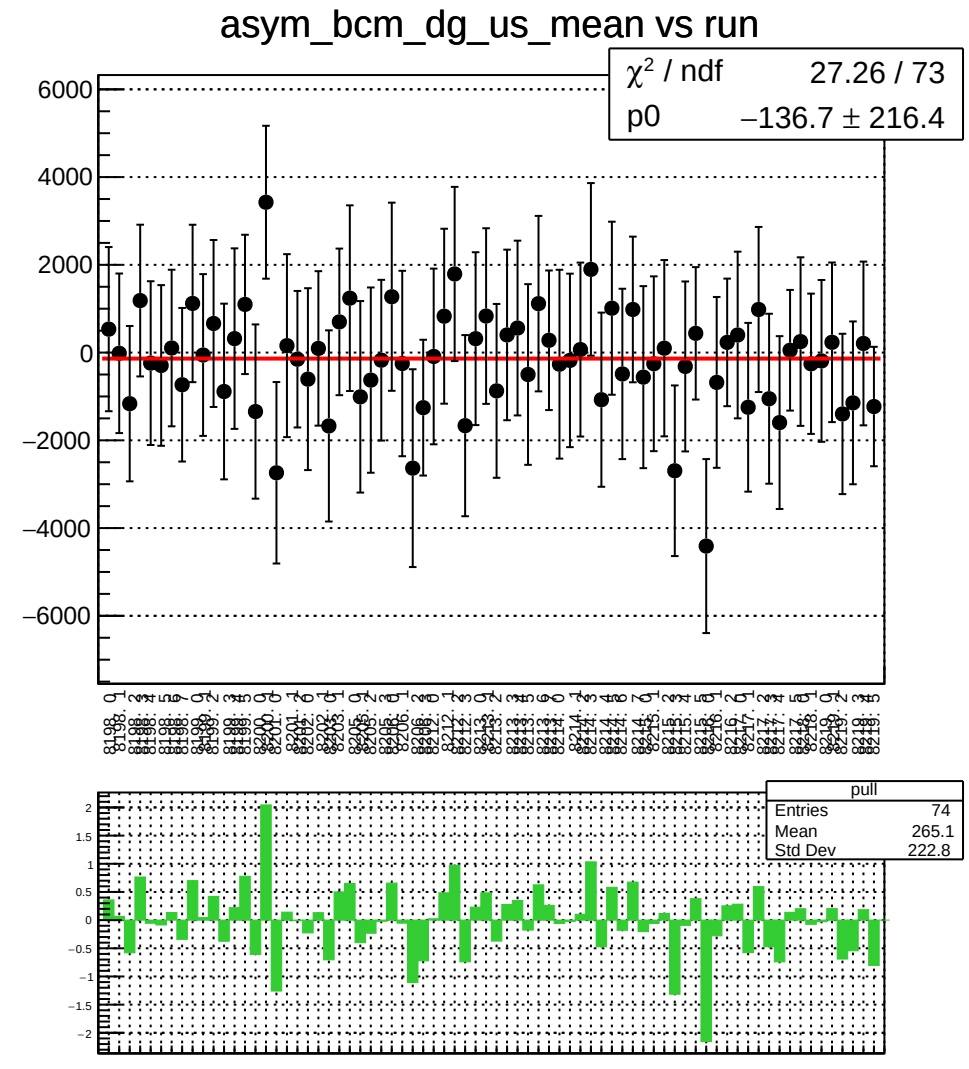

pull1D
Entries 74
Mean −0.004737
Std Dev 0.5888
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

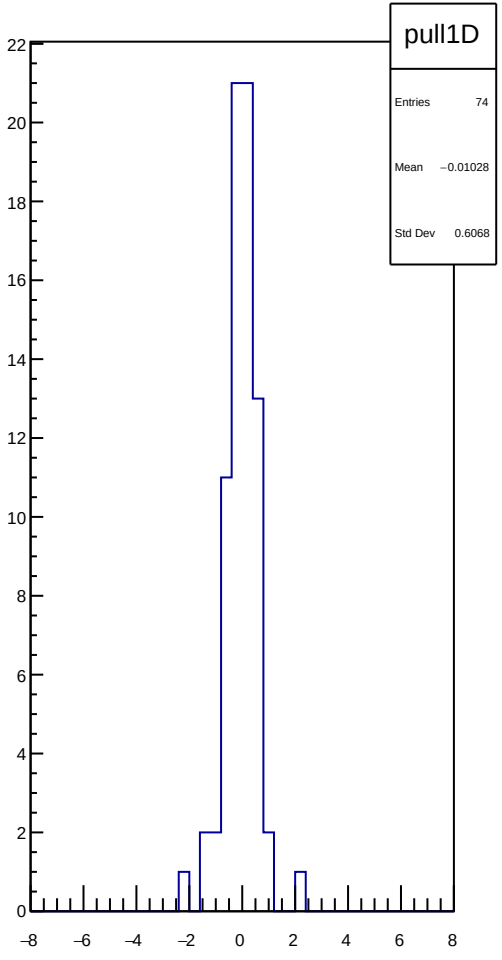

asym_bcm_an_ds3_rms vs run
χ² / ndf 4339 / 73
p0 184.1 ± 0.1503
210
200
190
180
170
160

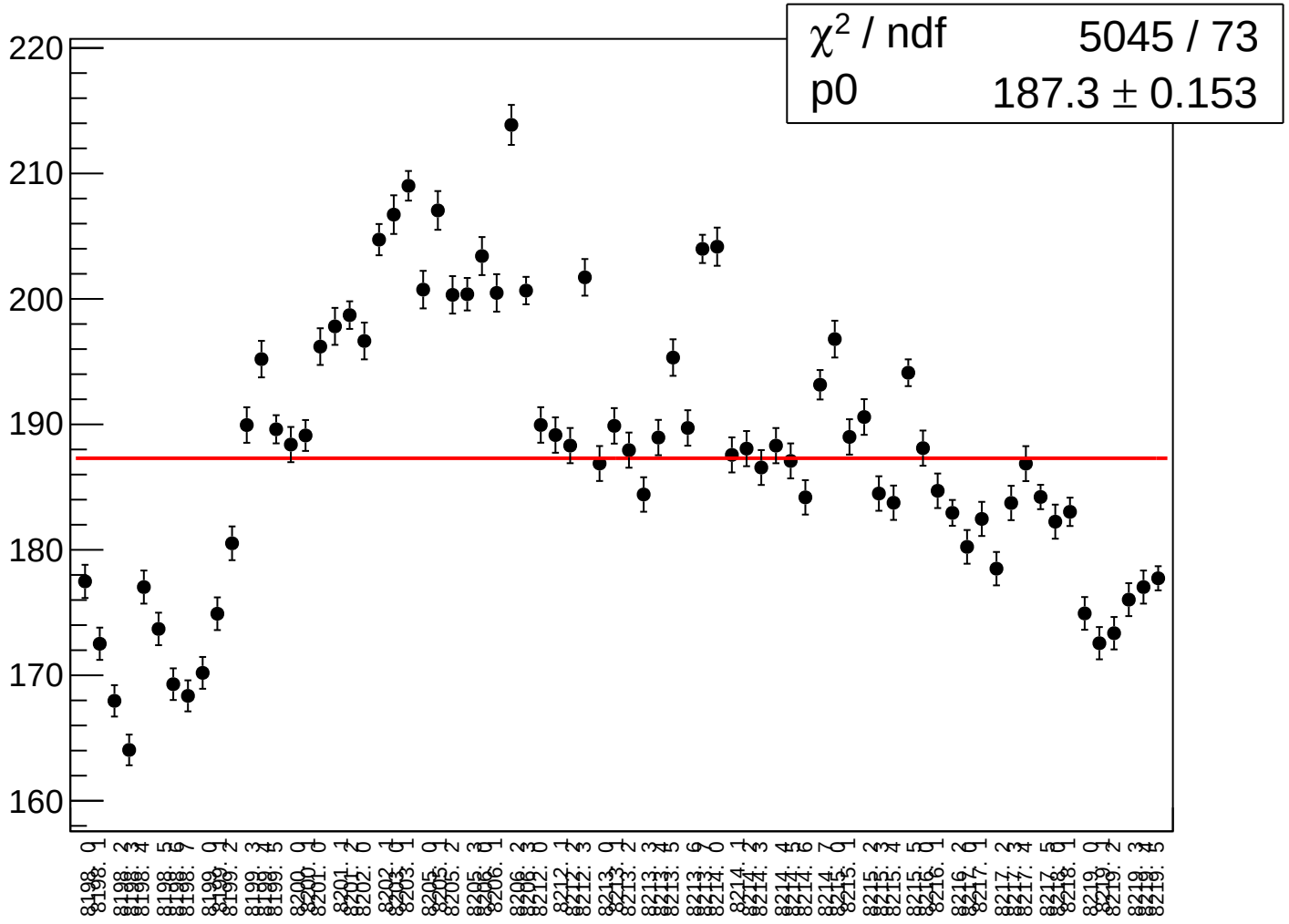

asym_bcm_an_us_mean vs run
χ² / ndf 23.6 / 73
p0 −140.3 ± 212.9
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 492.3
Std Dev 450.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

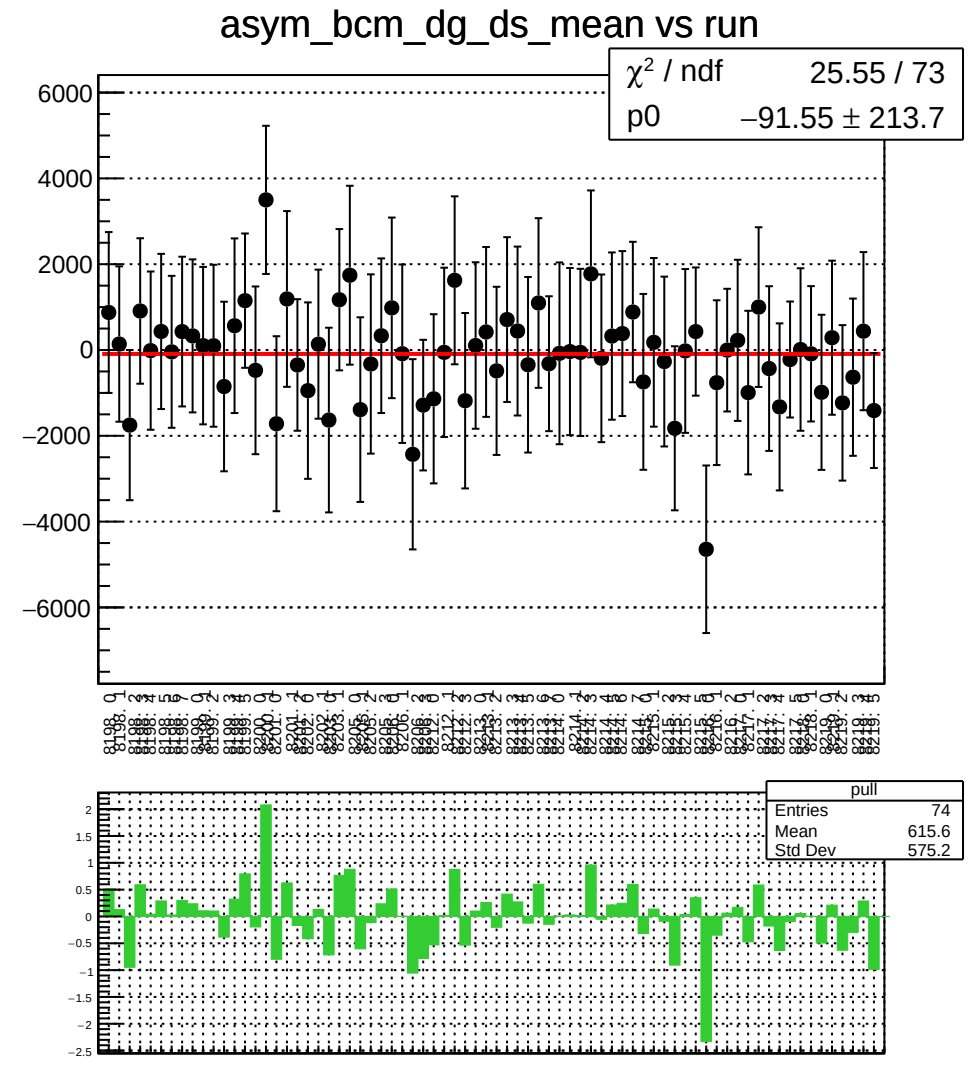

pull1D
Entries 74
Mean −0.005638
Std Dev 0.5647
25
20
15
10
5
0
−8
−6
−4
−2
0
2
4
6
8

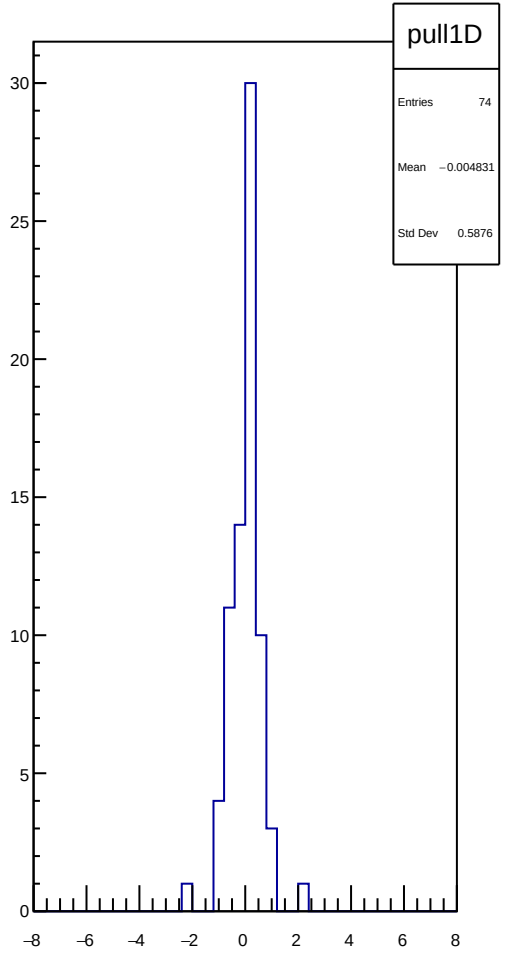

asym_bcm_an_us_rms vs run
χ² / ndf 4351 / 73
p0 184.3 ± 0.1506
210
200
190
180
170
160

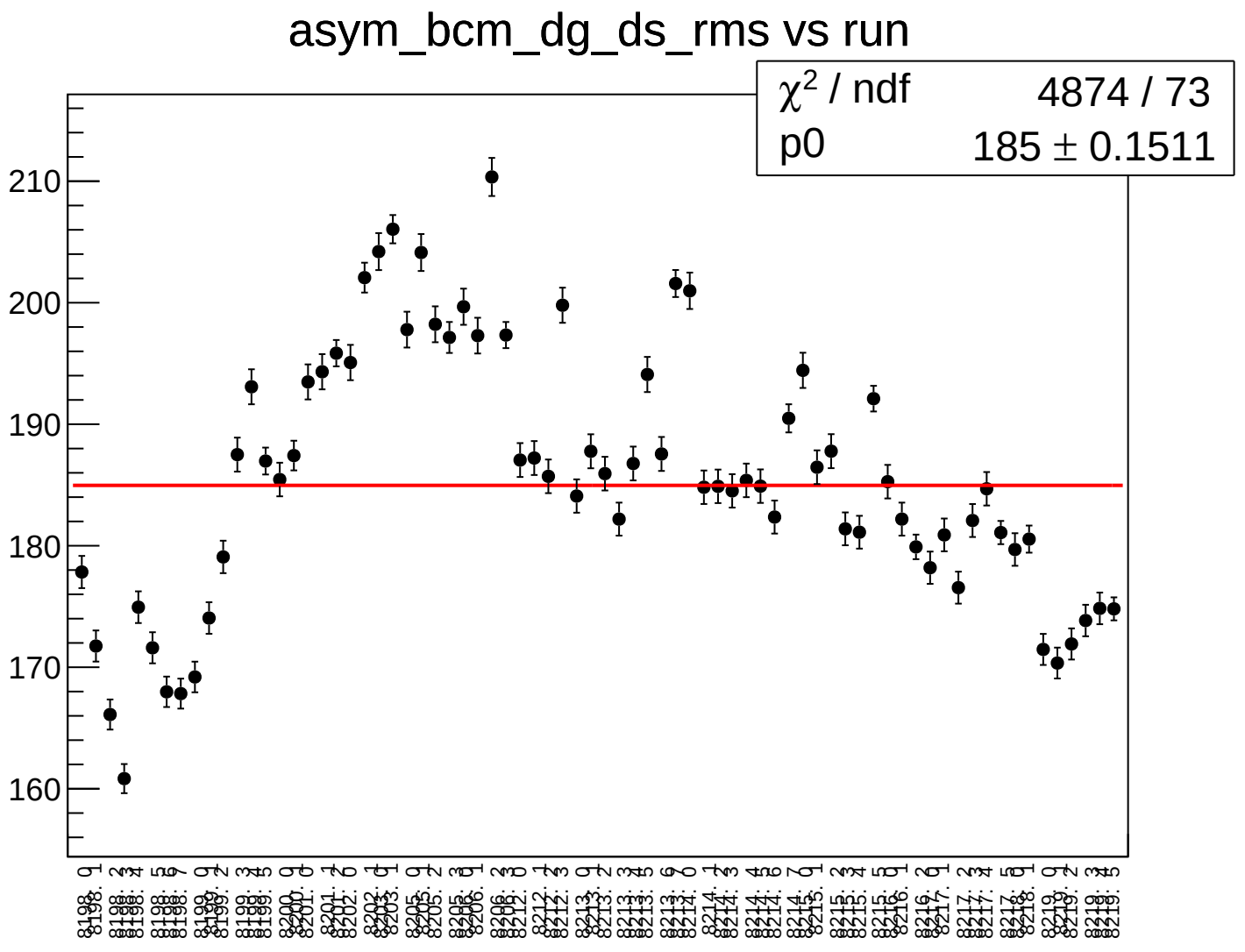

asym_bcm_dg_us_mean vs run
χ² / ndf 27.26 / 73
p0 −136.7 ± 216.4
pull
Entries 74
Mean 265.1
Std Dev 222.8

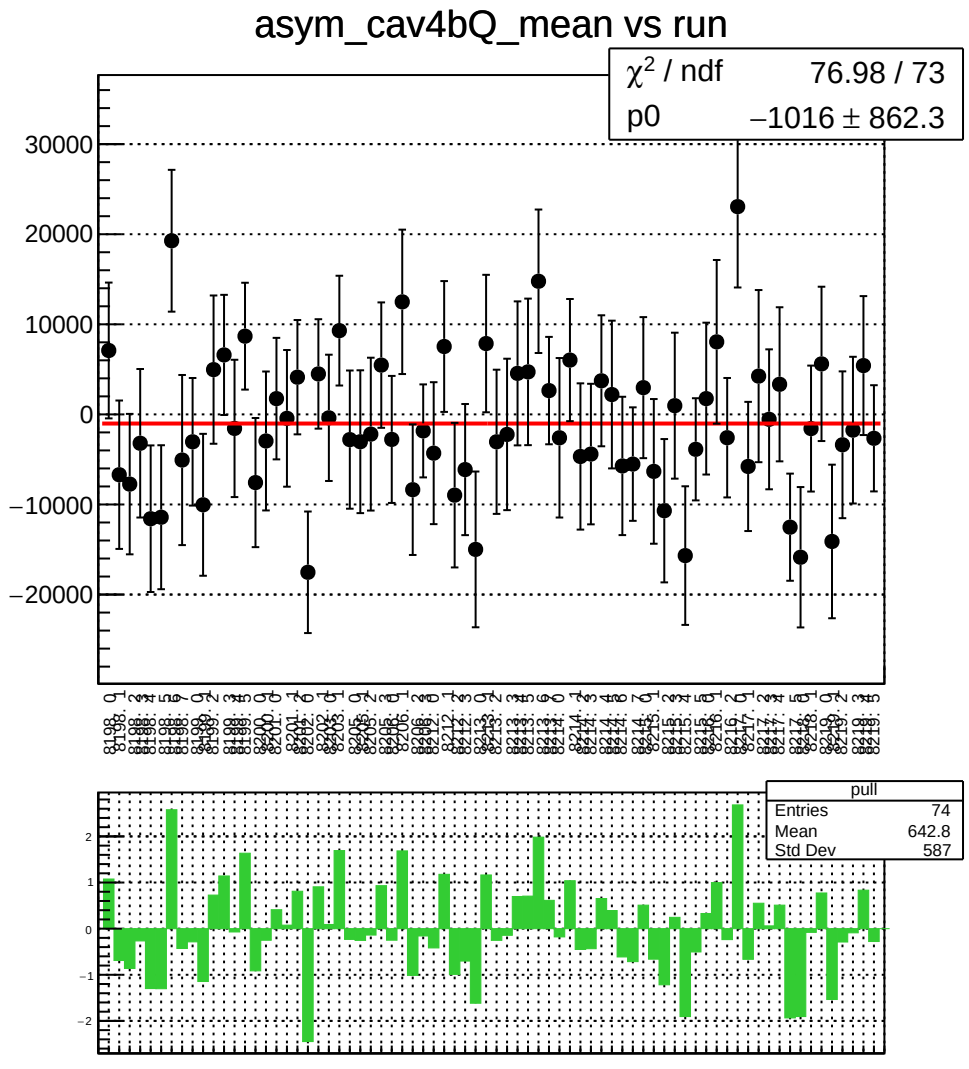

pull1D
Entries 74
Mean −0.01028
Std Dev 0.6068

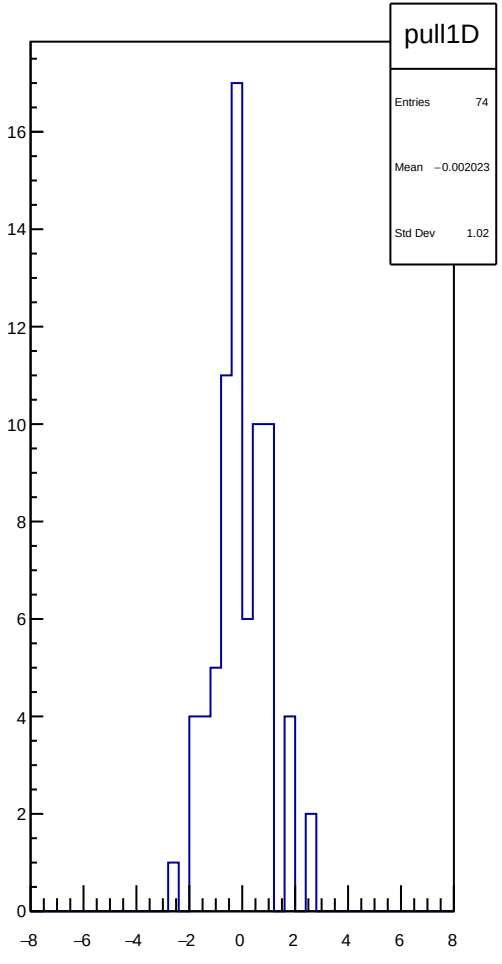

asym_bcm_dg_us_rms vs run
χ^2 / ndf 5045 / 73
p0 187.3 ± 0.153
220
210
200
190
180
170
160

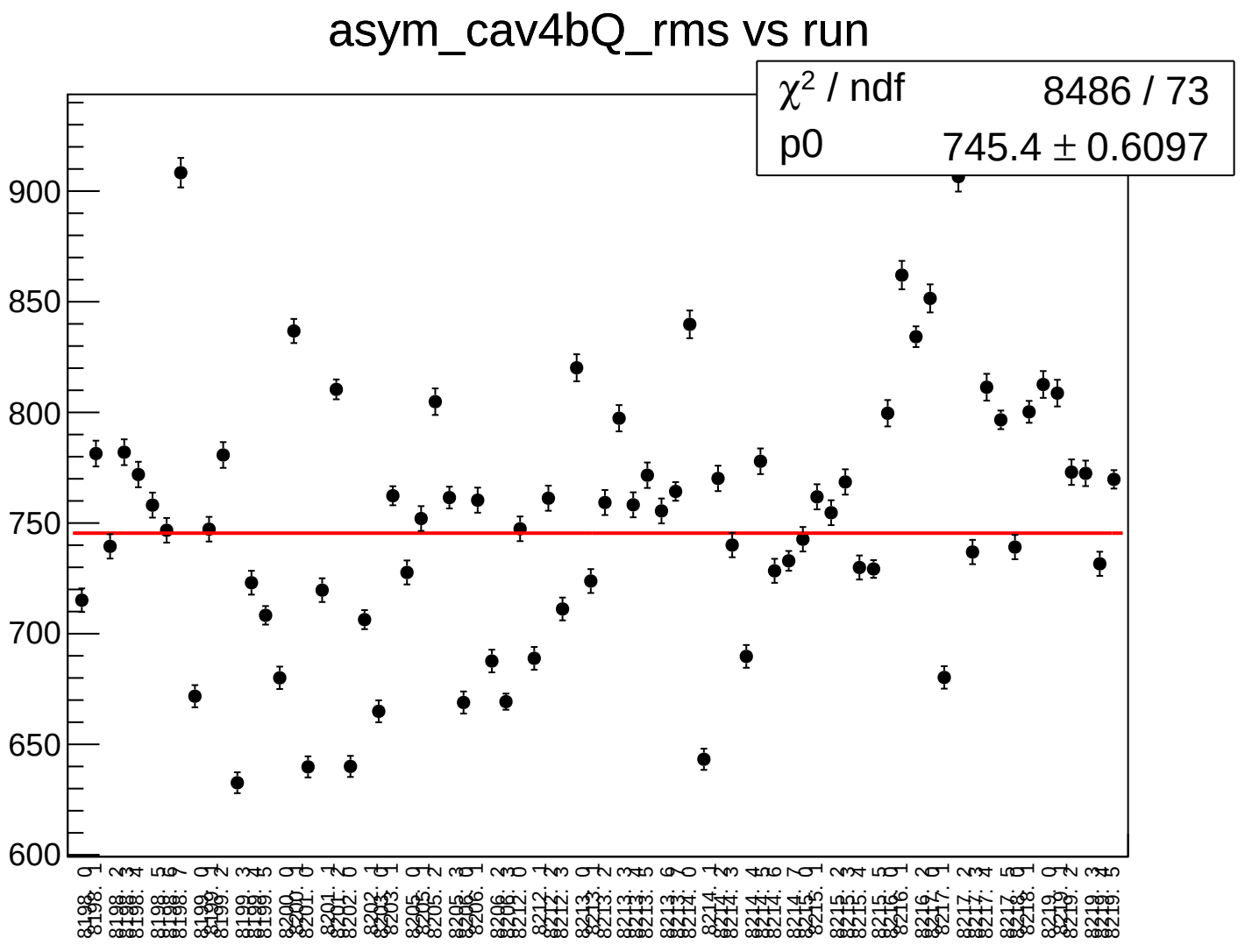

asym_bcm_dg_ds_mean vs run
χ² / ndf 25.55 / 73
p0 −91.55 ± 213.7
pull
Entries 74
Mean 615.6
Std Dev 575.2

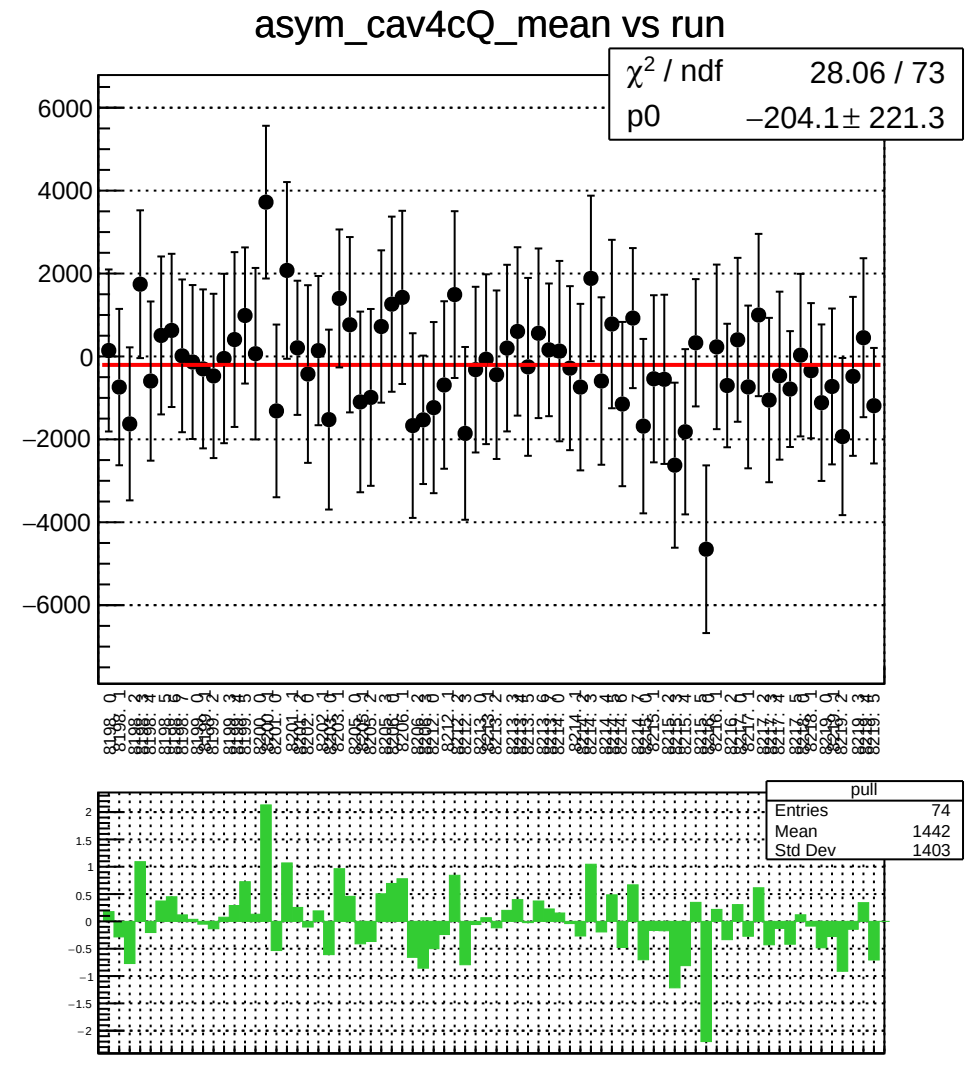

pull1D
Entries 74
Mean −0.004831
Std Dev 0.5876

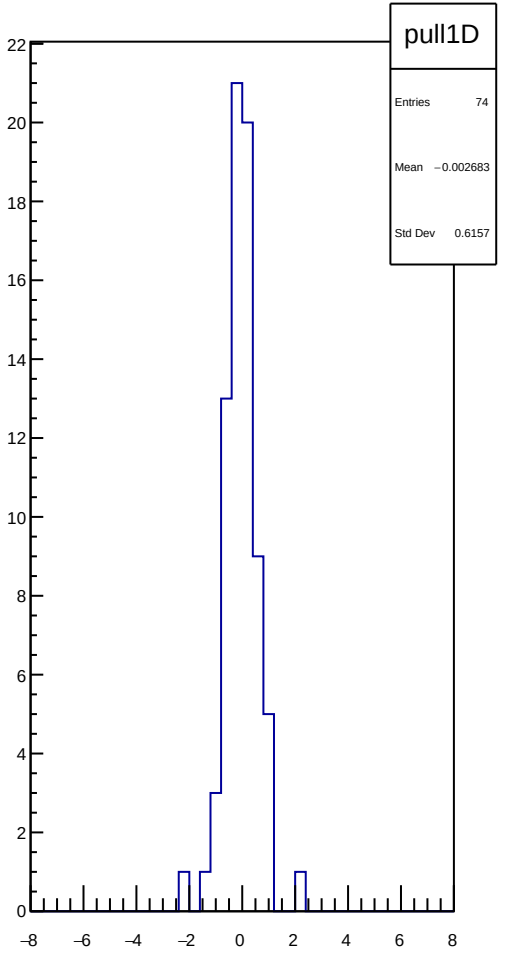

asym_bcm_dg_ds_rms vs run
χ² / ndf 4874 / 73
p0 185 ± 0.1511
210
200
190
180
170
160

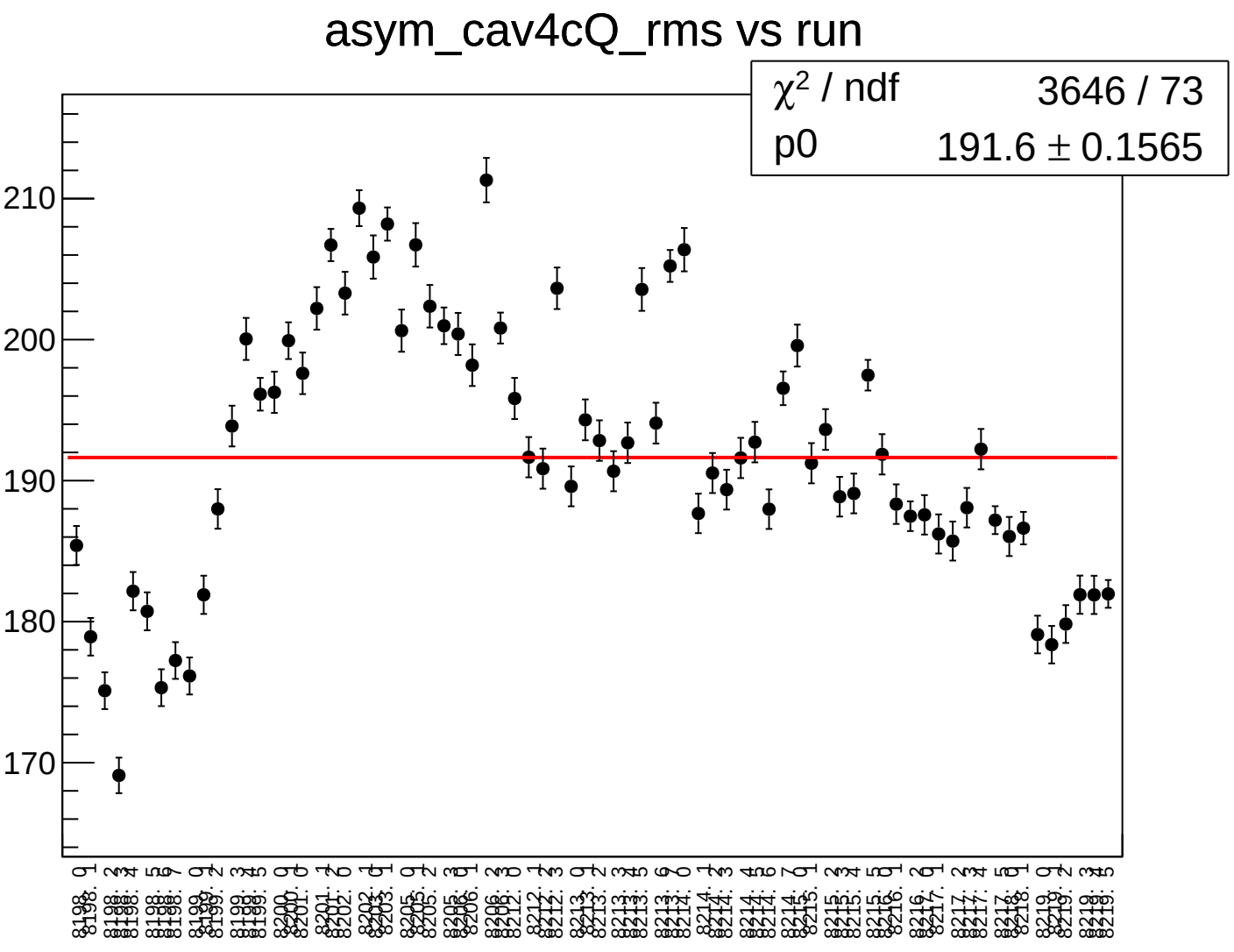

asym_cav4bQ_mean vs run
χ² / ndf 76.98 / 73
p0 −1016 ± 862.3
30000
20000
10000
0
−10000
−20000
pull
Entries 74
Mean 642.8
Std Dev 587
2
1
0
−1
−2

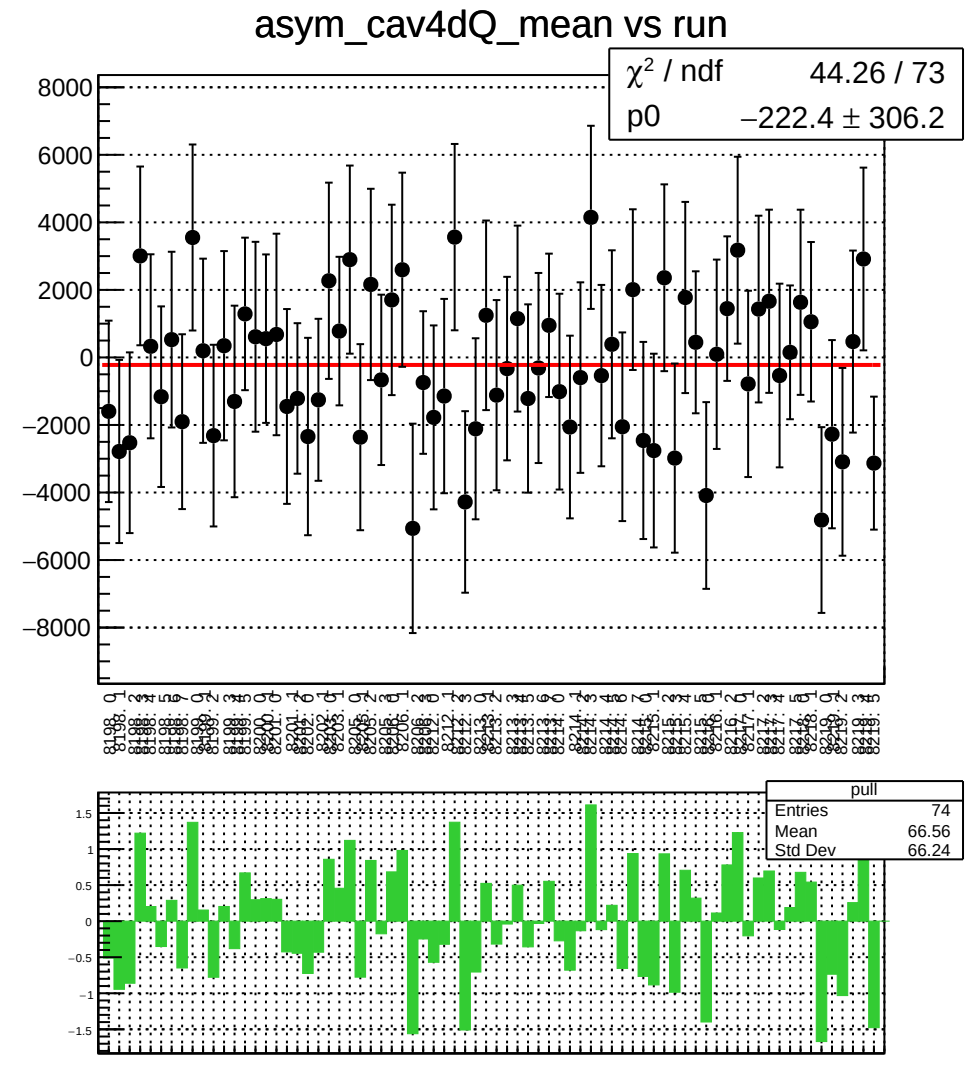

pull1D
Entries 74
Mean −0.002023
Std Dev 1.02
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

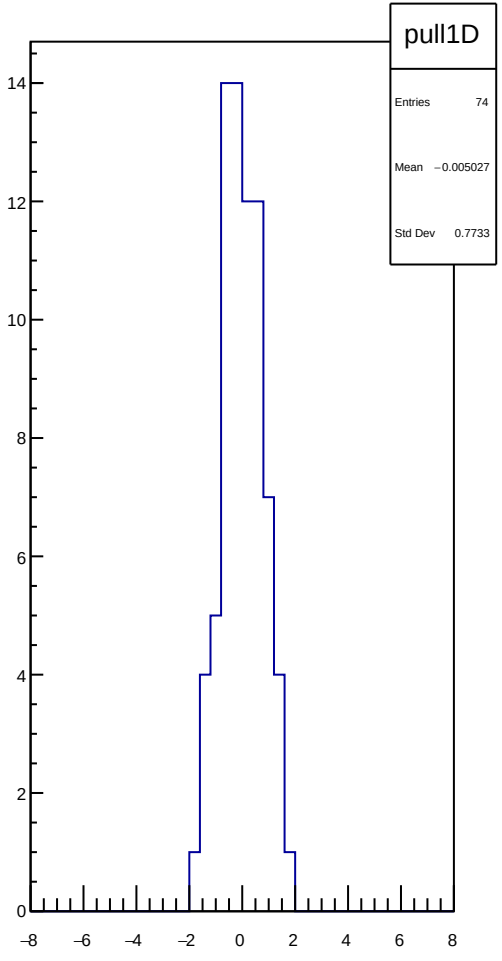

asym_cav4bQ_rms vs run
χ² / ndf 8486 / 73
p0 745.4 ± 0.6097
900
850
800
750
700
650
600

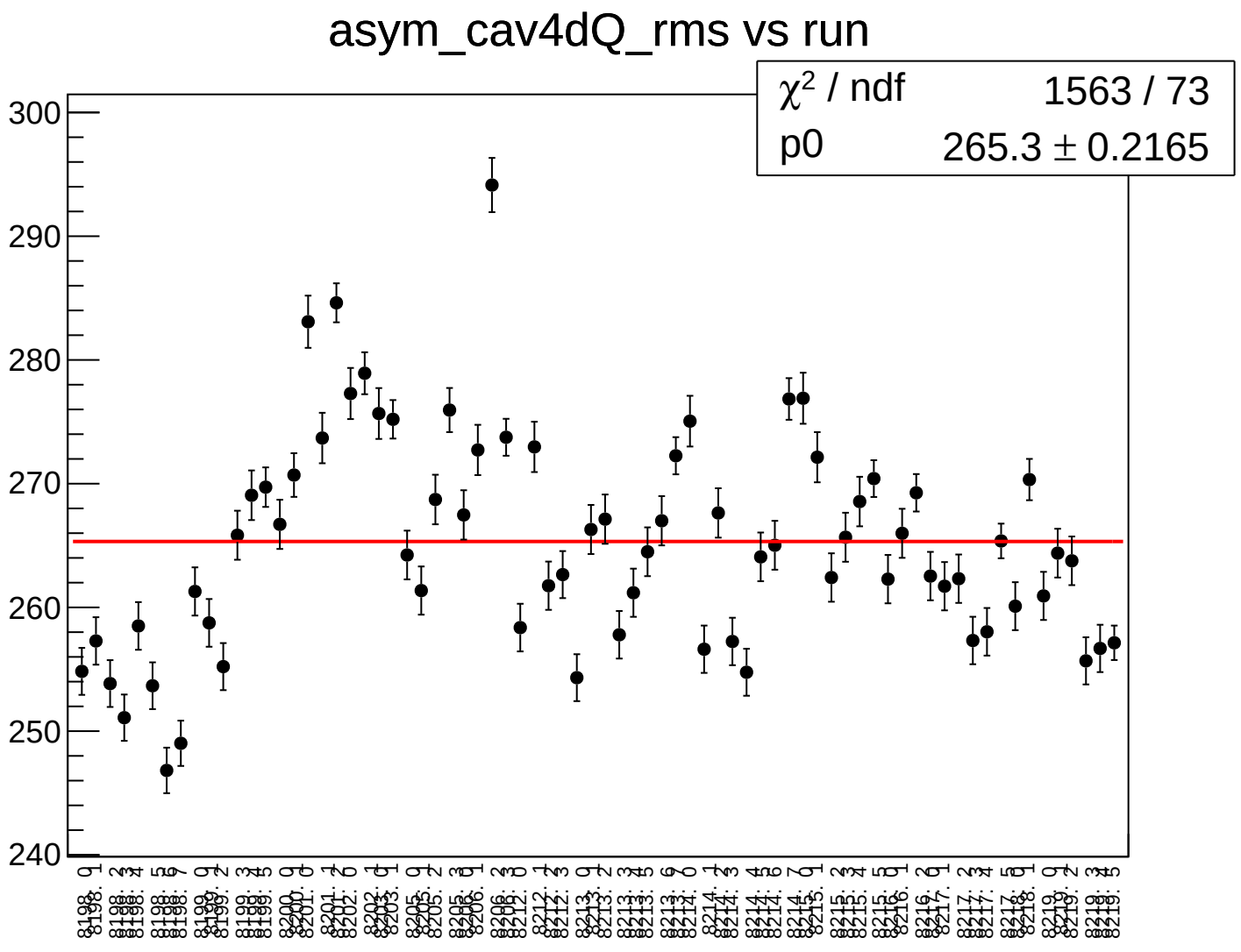

asym_cav4cQ_mean vs run
χ² / ndf 28.06 / 73
p0 −204.1± 221.3
6000
4000
2000
0
−2000
−4000
−6000
pull
Entries 74
Mean 1442
Std Dev 1403
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

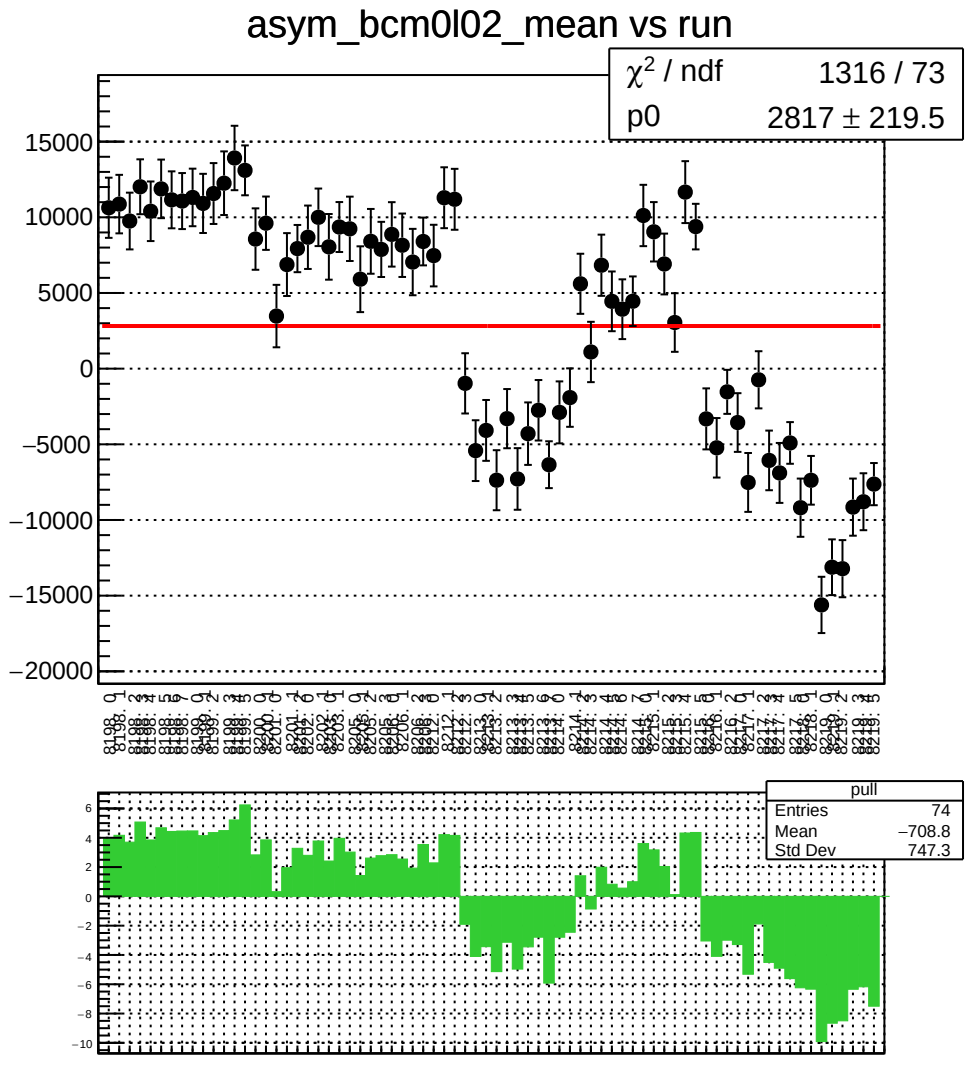

pull1D
Entries 74
Mean −0.002683
Std Dev 0.6157
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

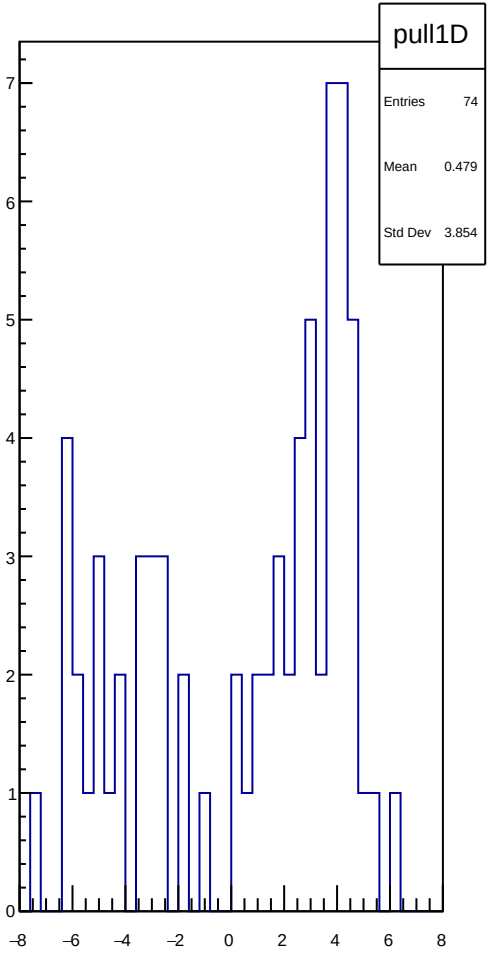

asym_cav4cQ_rms vs run
χ² / ndf 3646 / 73
p0 191.6 ± 0.1565
210
200
190
180
170

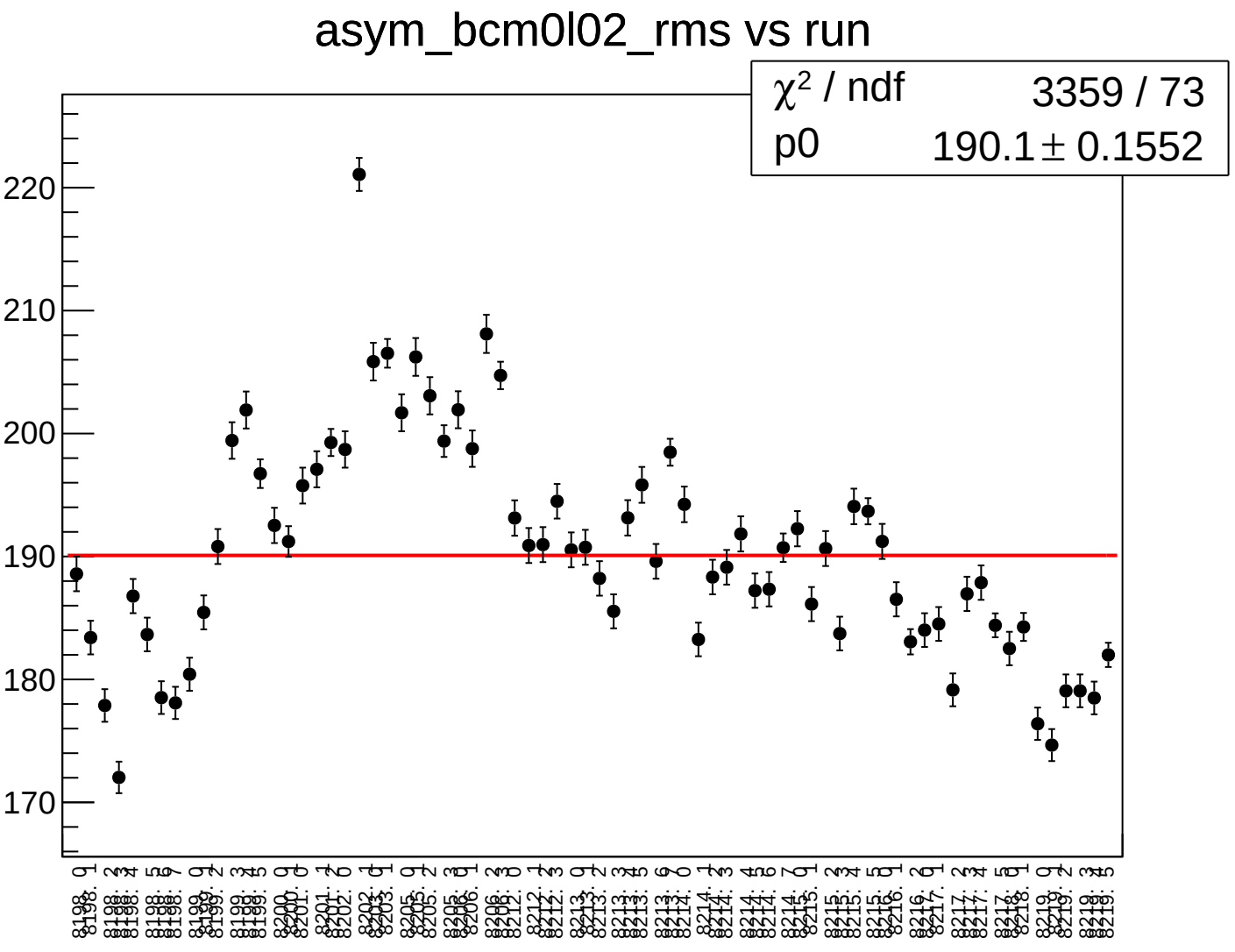

asym_cav4dQ_mean vs run
χ² / ndf 44.26 / 73
p0 −222.4 ± 306.2
pull
Entries 74
Mean 66.56
Std Dev 66.24

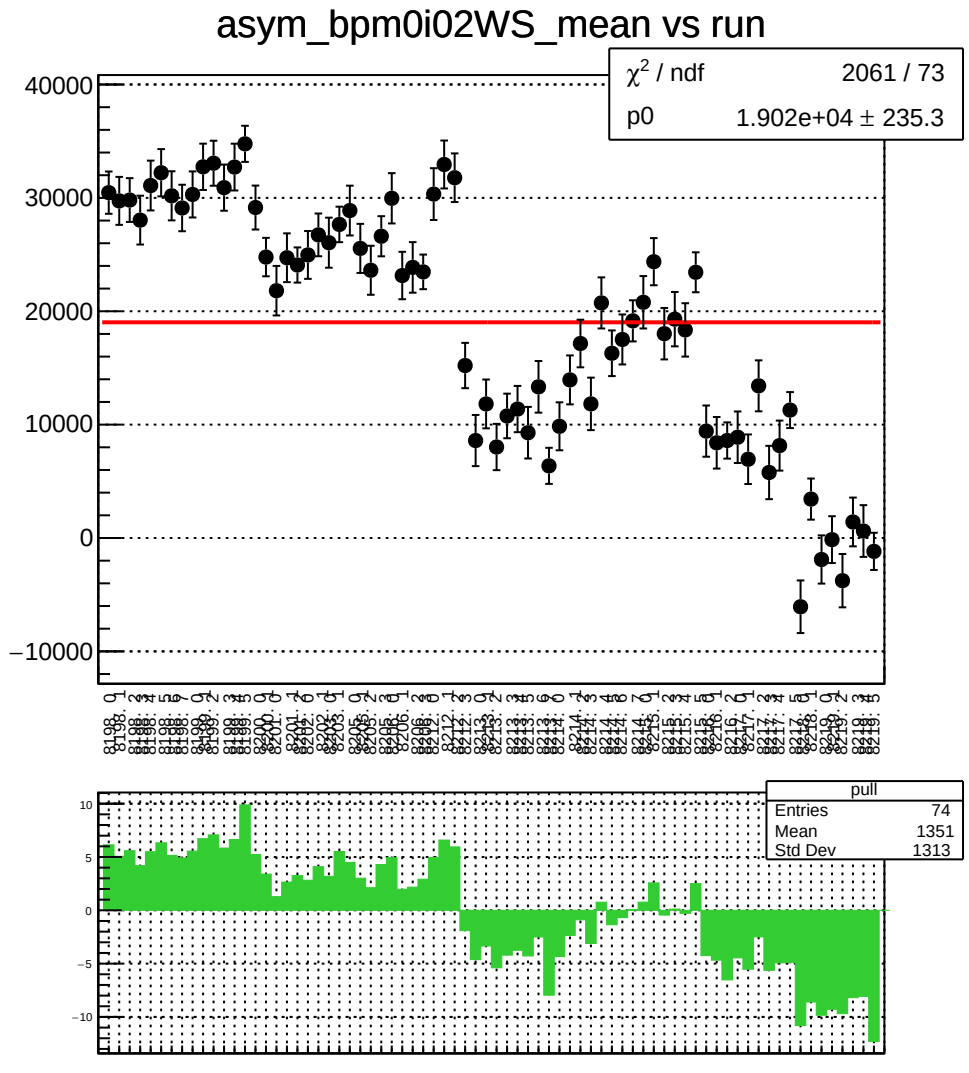

pull1D
Entries 74
Mean −0.005027
Std Dev 0.7733

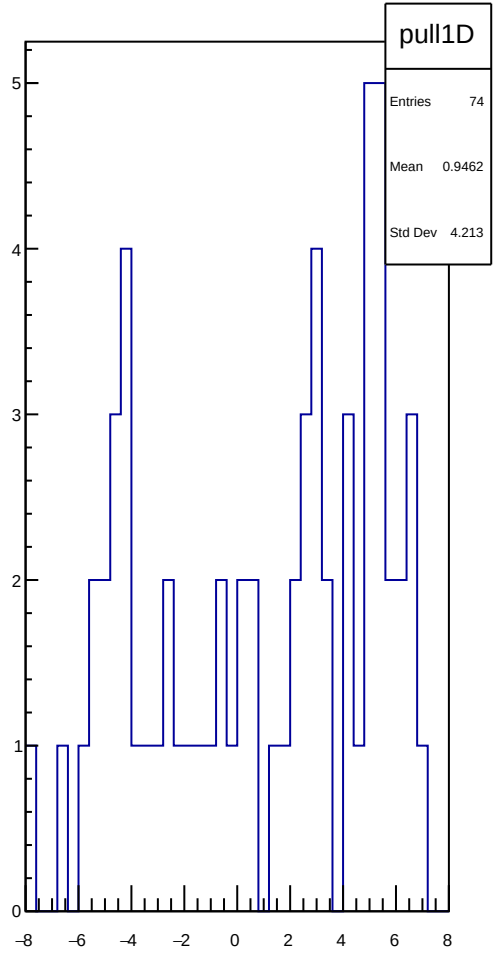

asym_cav4dQ_rms vs run
χ² / ndf 1563 / 73
p0 265.3 ± 0.2165
300
290
280
270
260
250
240

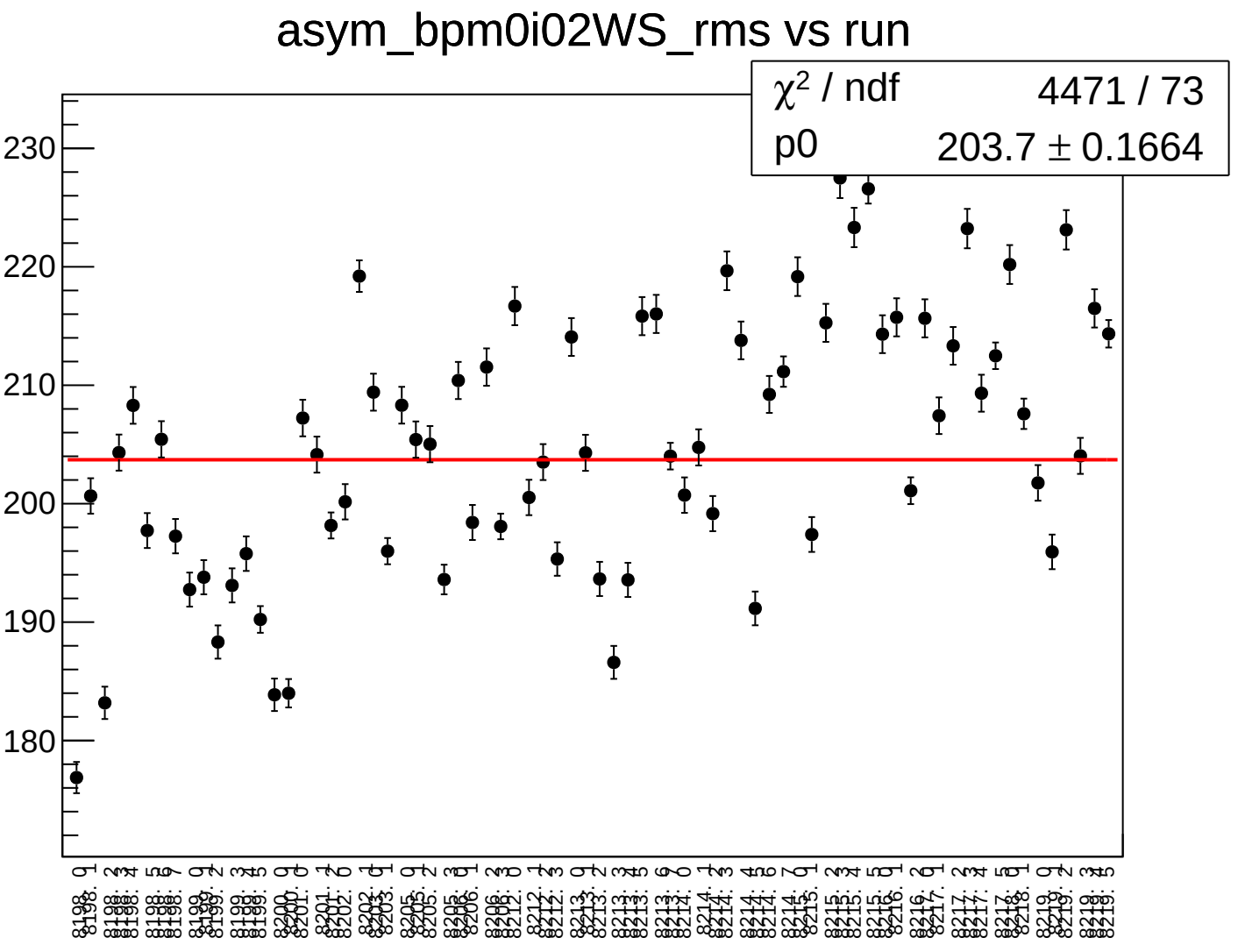

asym_bcm0l02_mean vs run
χ² / ndf 1316 / 73
p0 2817 ± 219.5
pull
Entries 74
Mean −708.8
Std Dev 747.3

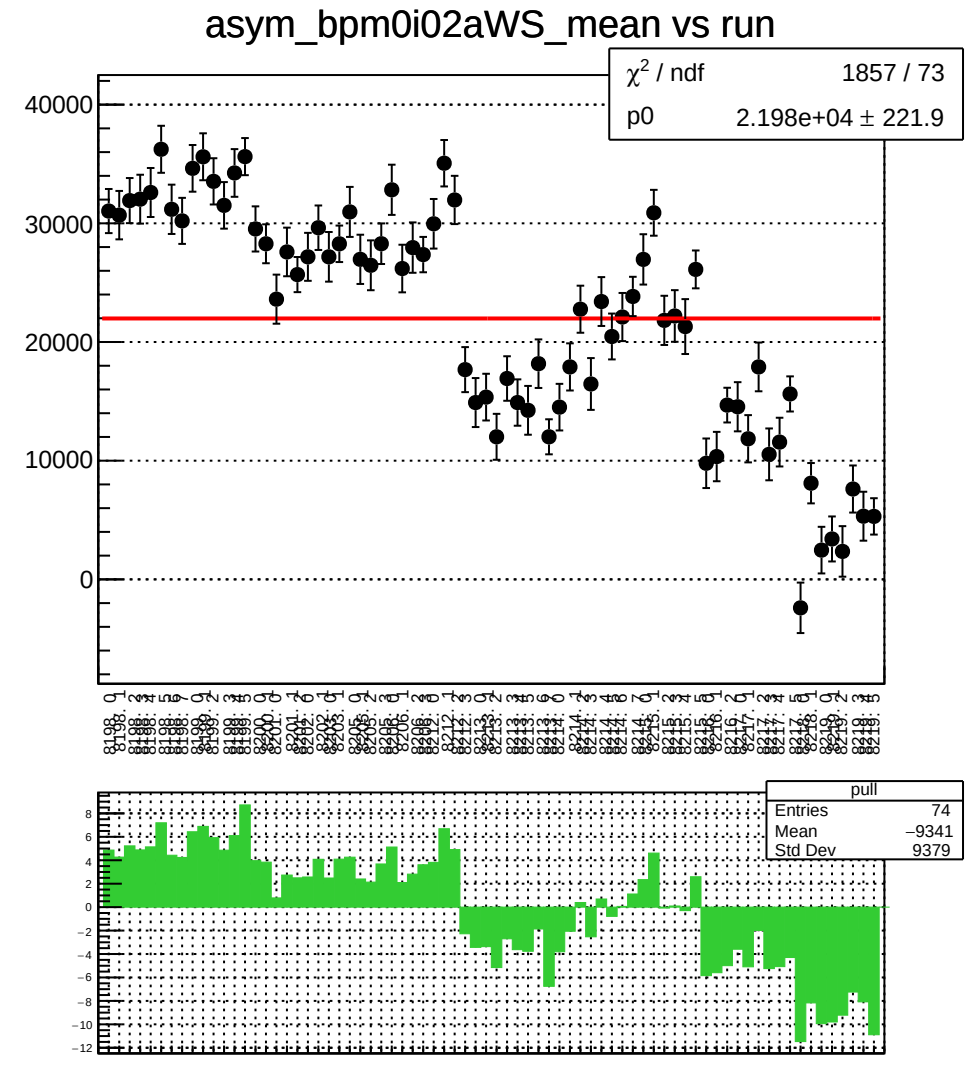

pull1D
Entries 74
Mean 0.479
Std Dev 3.854

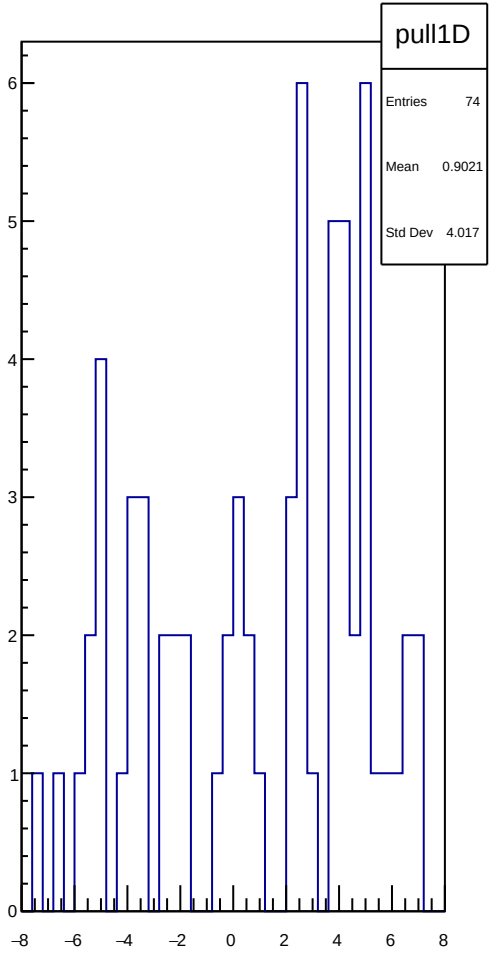

asym_bcm0l02_rms vs run
χ² / ndf 3359 / 73
p0 190.1 ± 0.1552
220
210
200
190
180
170

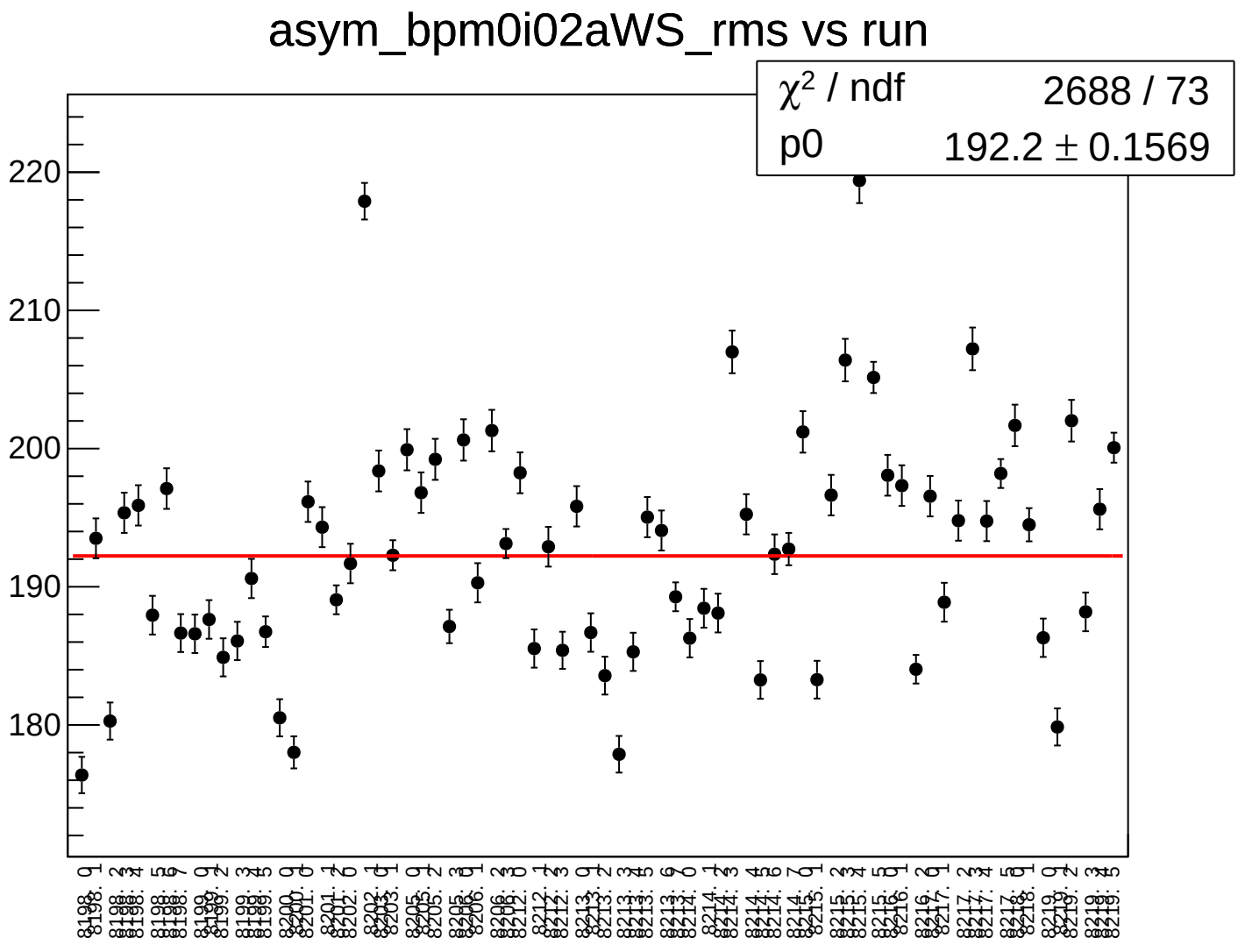

asym_bpm0i02WS_mean vs run
χ² / ndf 2061 / 73
p0 1.902e+04 ± 235.3
40000
30000
20000
10000
0
−10000
pull
Entries 74
Mean 1351
Std Dev 1313
10
5
0
−5
−10

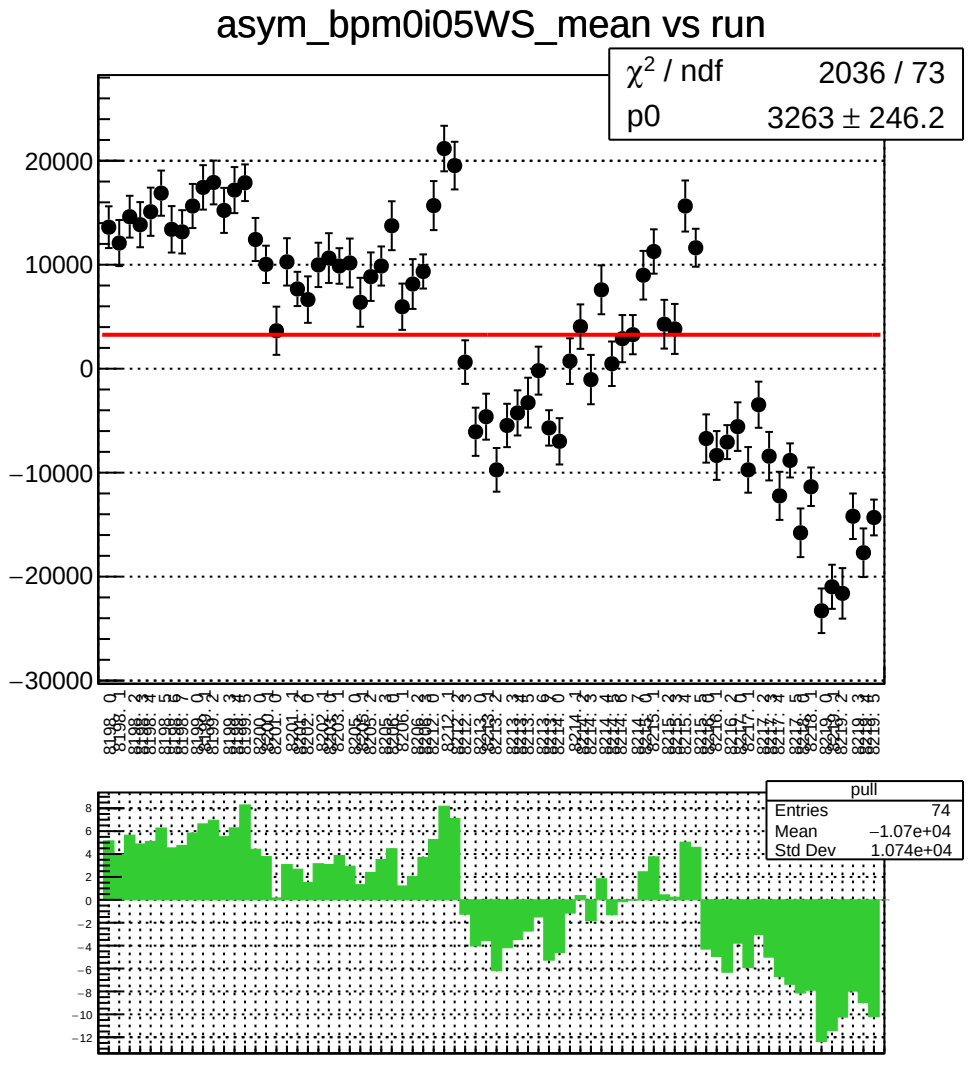

pull1D
Entries 74
Mean 0.9462
Std Dev 4.213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

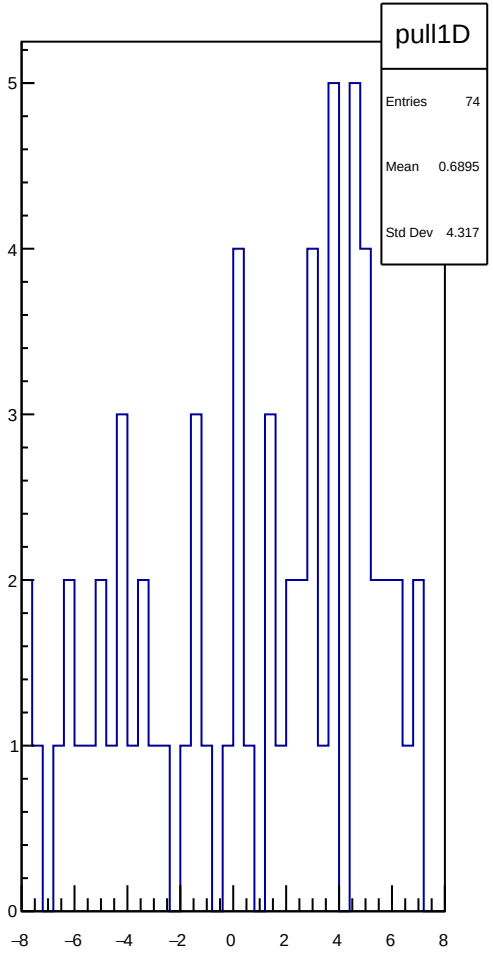

asym_bpm0i02WS_rms vs run
χ² / ndf 4471 / 73
p0 203.7 ± 0.1664
230
220
210
200
190
180

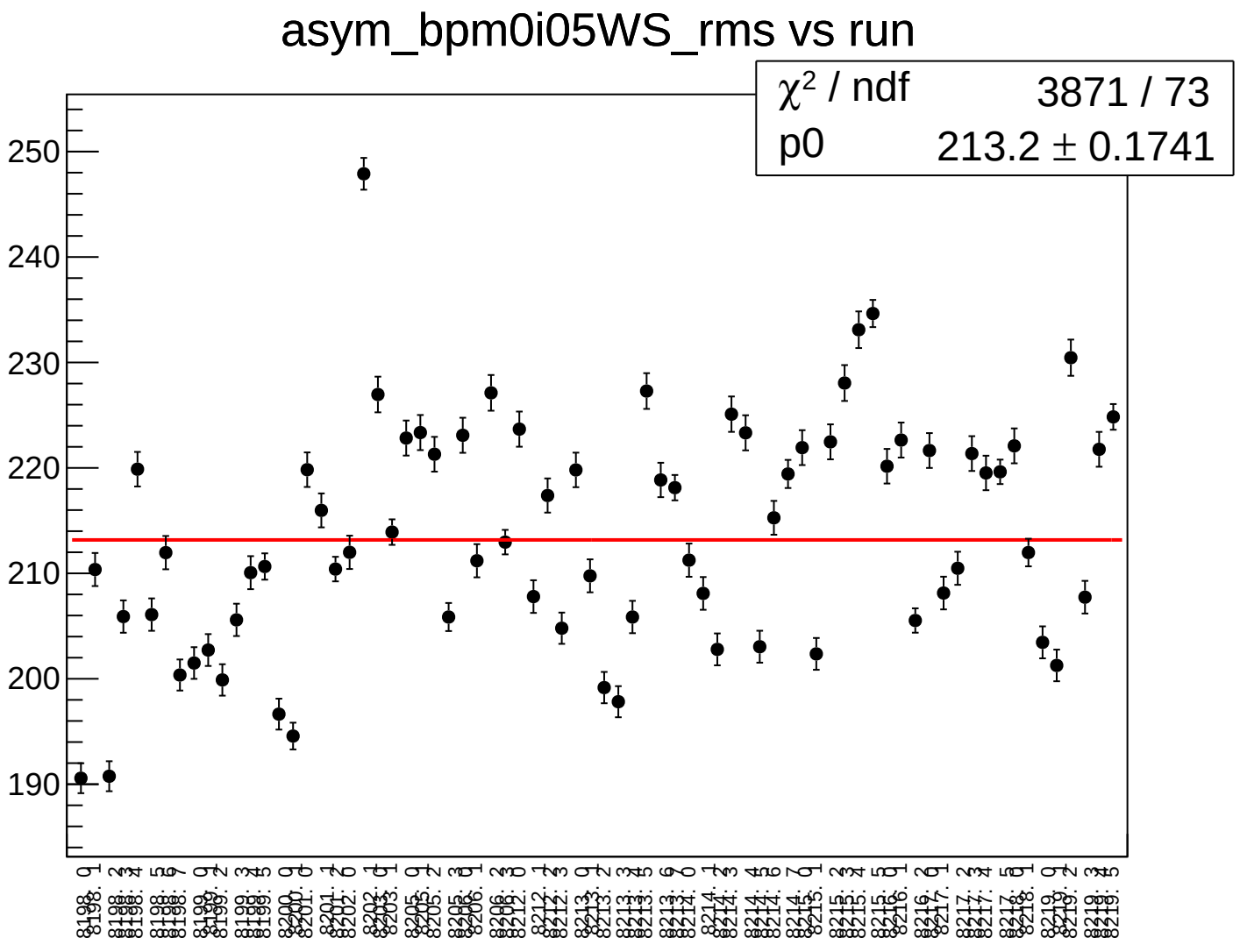

asym_bpm0i02aWS_mean vs run
χ² / ndf 1857 / 73
p0 2.198e+04 ± 221.9
40000
30000
20000
10000
0
pull
Entries 74
Mean −9341
Std Dev 9379
8
6
4
2
0
−2
−4
−6
−8
−10
−12

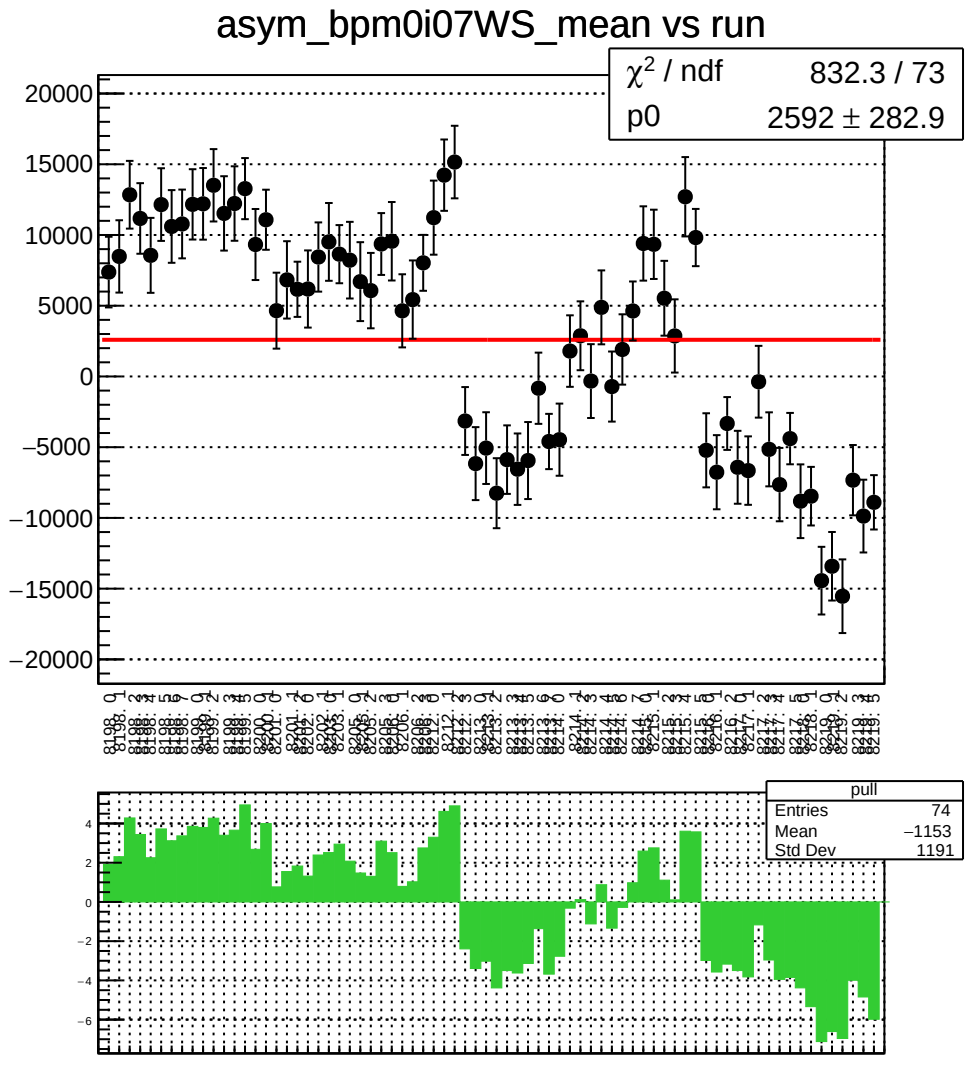

pull1D
Entries 74
Mean 0.9021
Std Dev 4.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

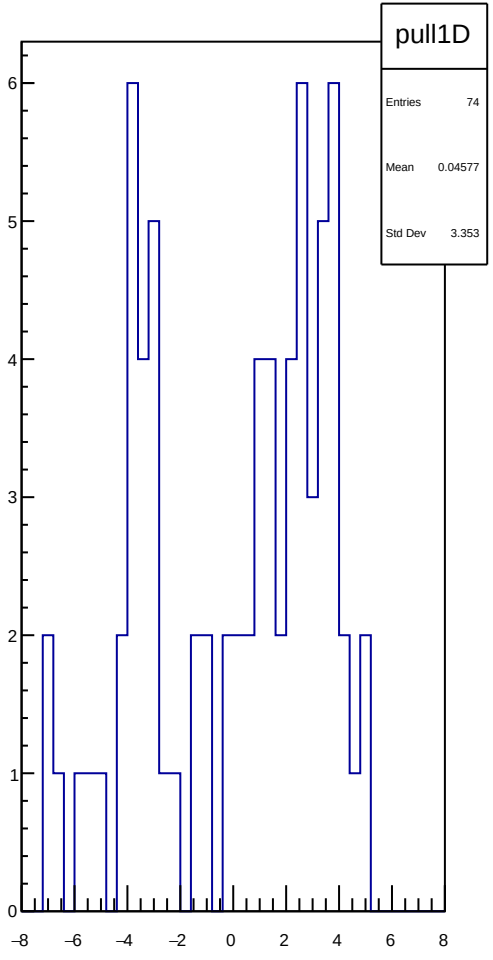

asym_bpm0i02aWS_rms vs run
χ² / ndf 2688 / 73
p0 192.2 ± 0.1569
220
210
200
190
180

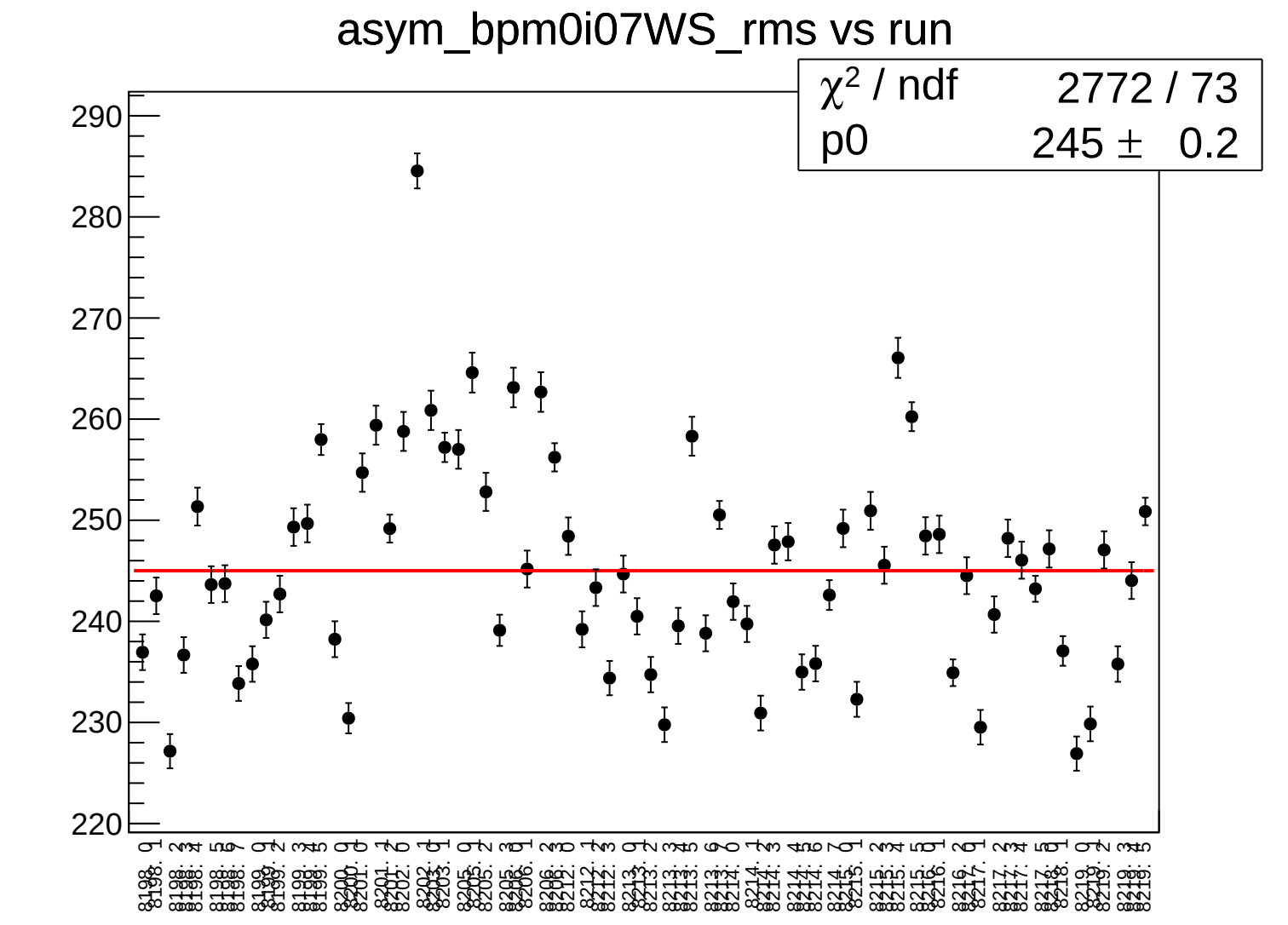

asym_bpm0i05WS_mean vs run
χ² / ndf 2036 / 73
p0 3263 ± 246.2
pull
Entries 74
Mean −1.07e+04
Std Dev 1.074e+04

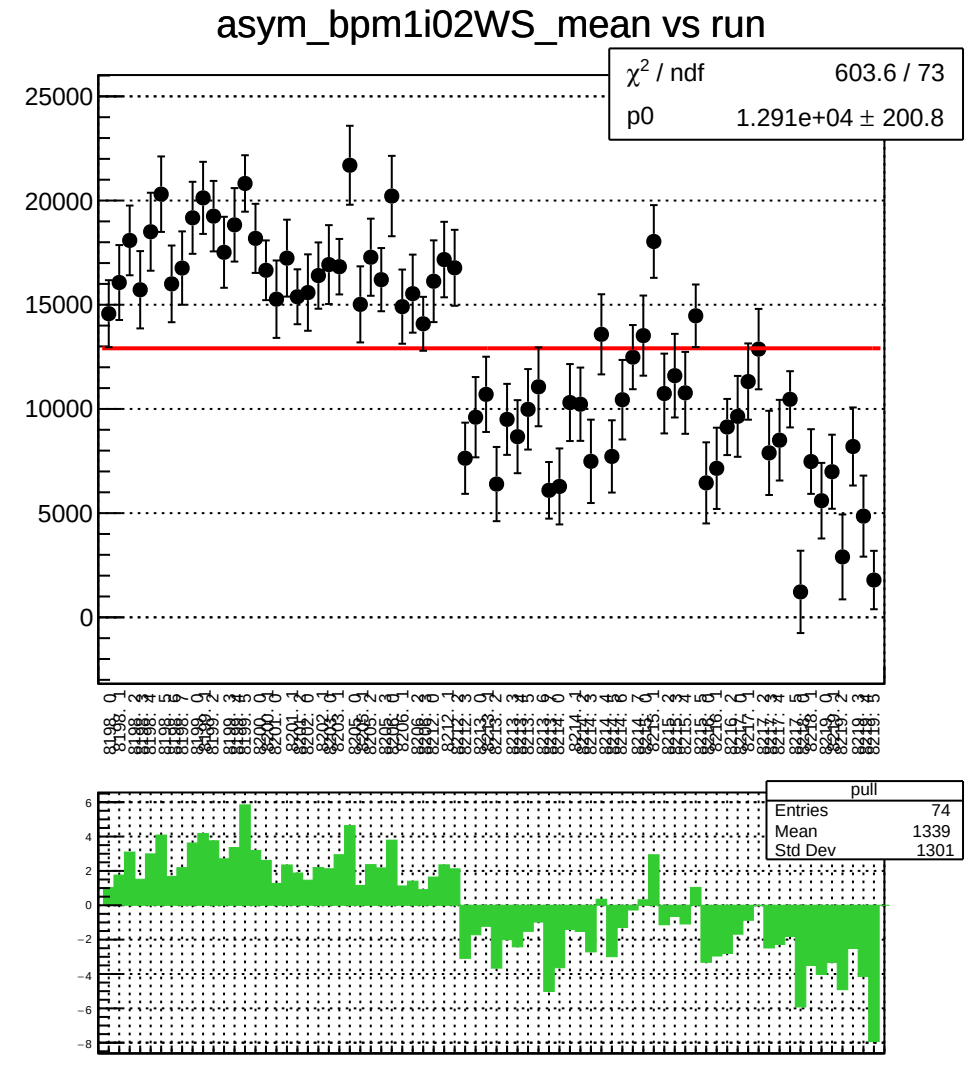

pull1D
Entries 74
Mean 0.6895
Std Dev 4.317

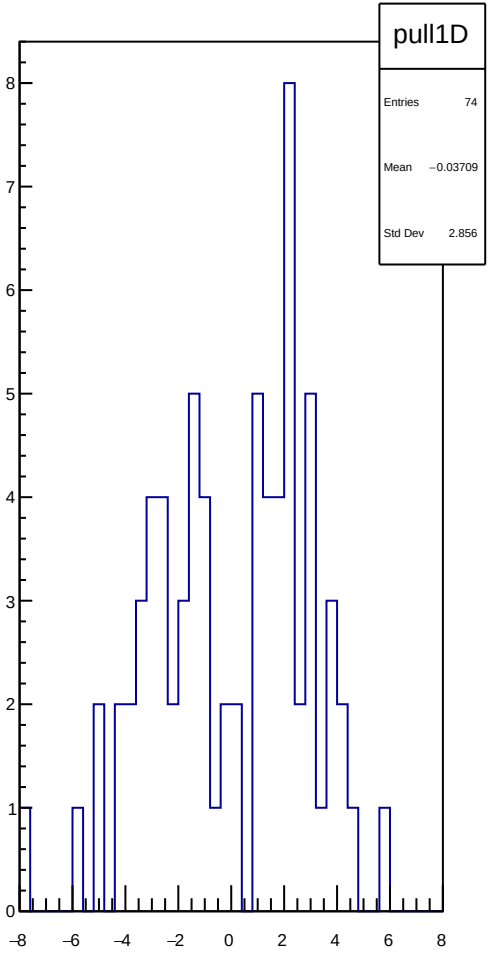

asym_bpm0i05WS_rms vs run
χ² / ndf 3871 / 73
p0 213.2 ± 0.1741
250
240
230
220
210
200
190

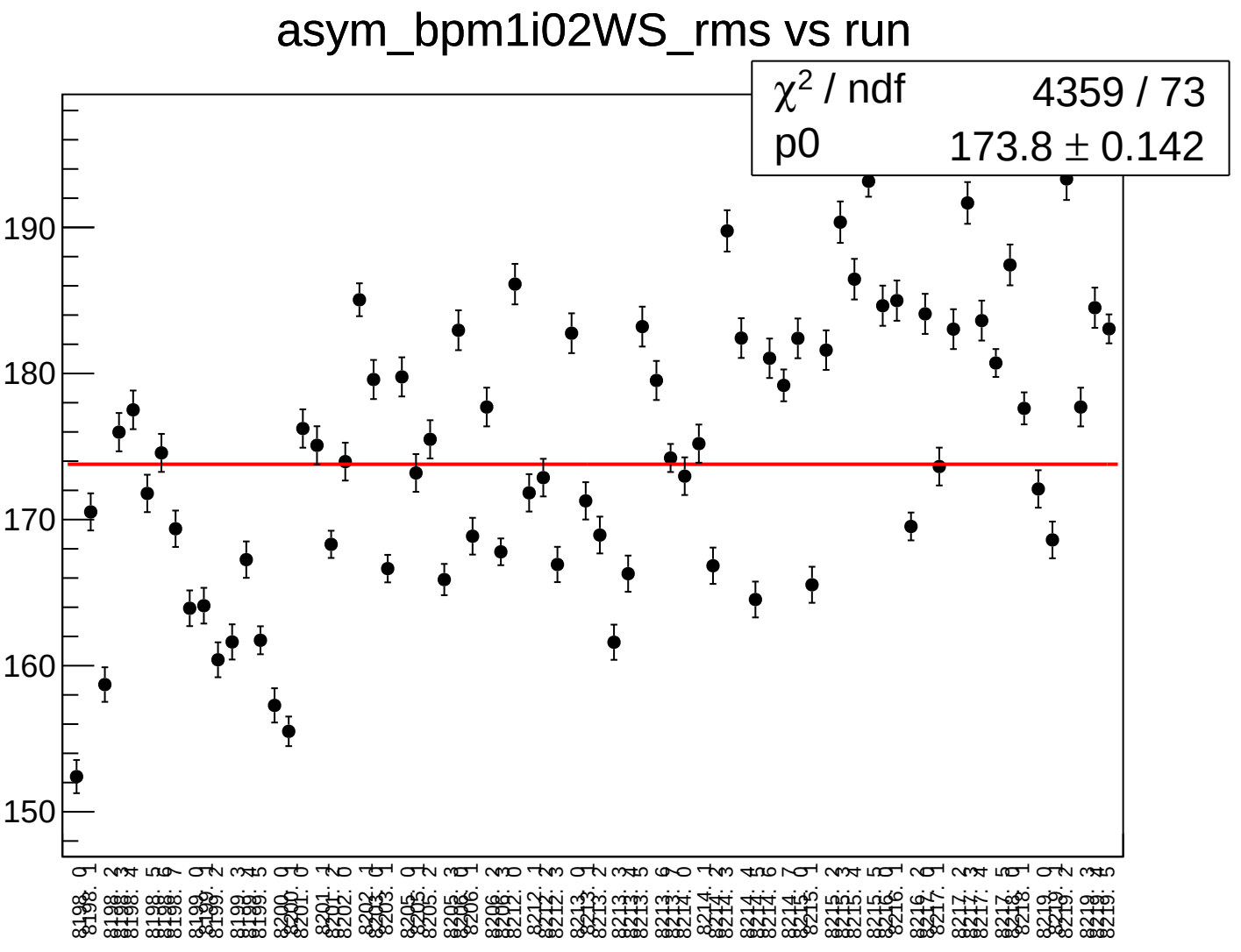

asym_bpm0i07WS_mean vs run
χ² / ndf 832.3 / 73
p0 2592 ± 282.9
pull
Entries 74
Mean −1153
Std Dev 1191

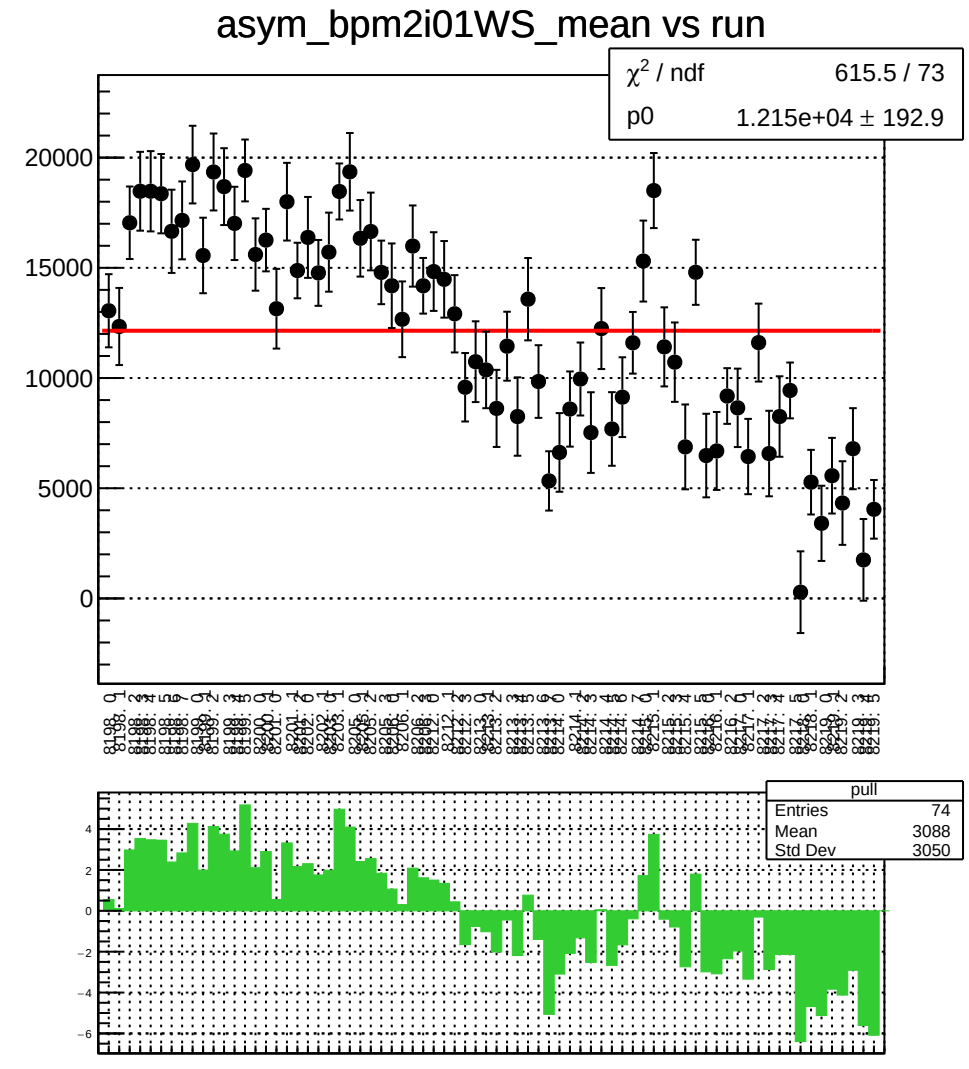

pull1D
Entries 74
Mean 0.04577
Std Dev 3.353

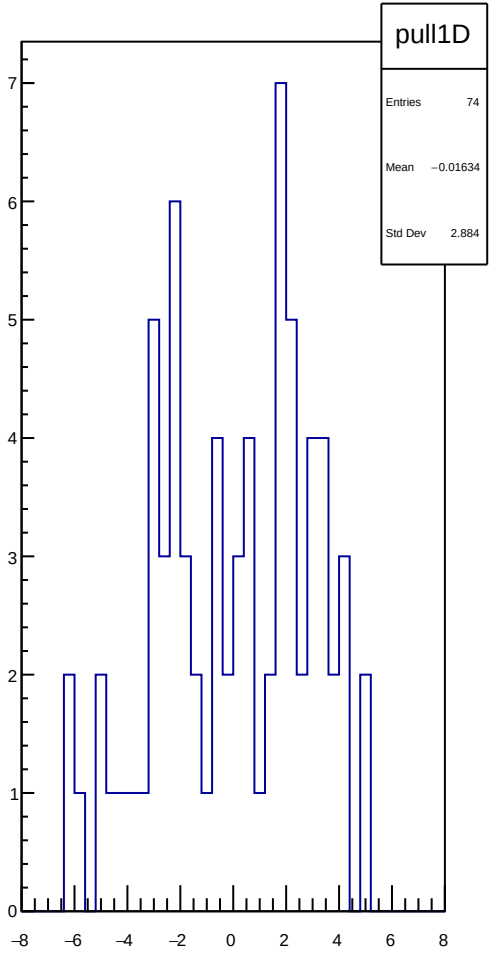

asym_bpm0i07WS_rms vs run
χ² / ndf 2772 / 73
p0 245 ± 0.2
290
280
270
260
250
240
230
220

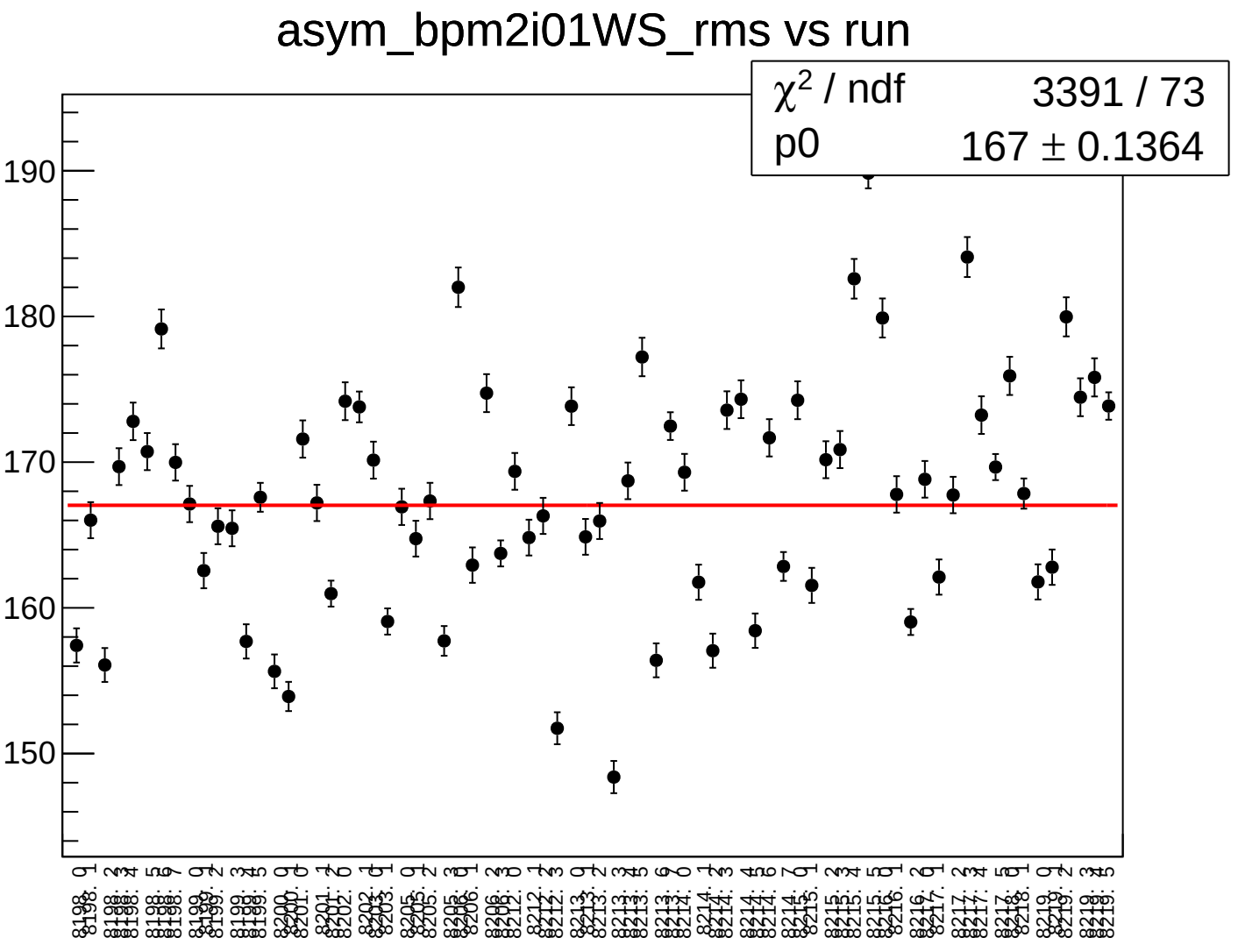

asym_bpm1i02WS_mean vs run
χ² / ndf 603.6 / 73
p0 1.291e+04 ± 200.8
pull
Entries 74
Mean 1339
Std Dev 1301

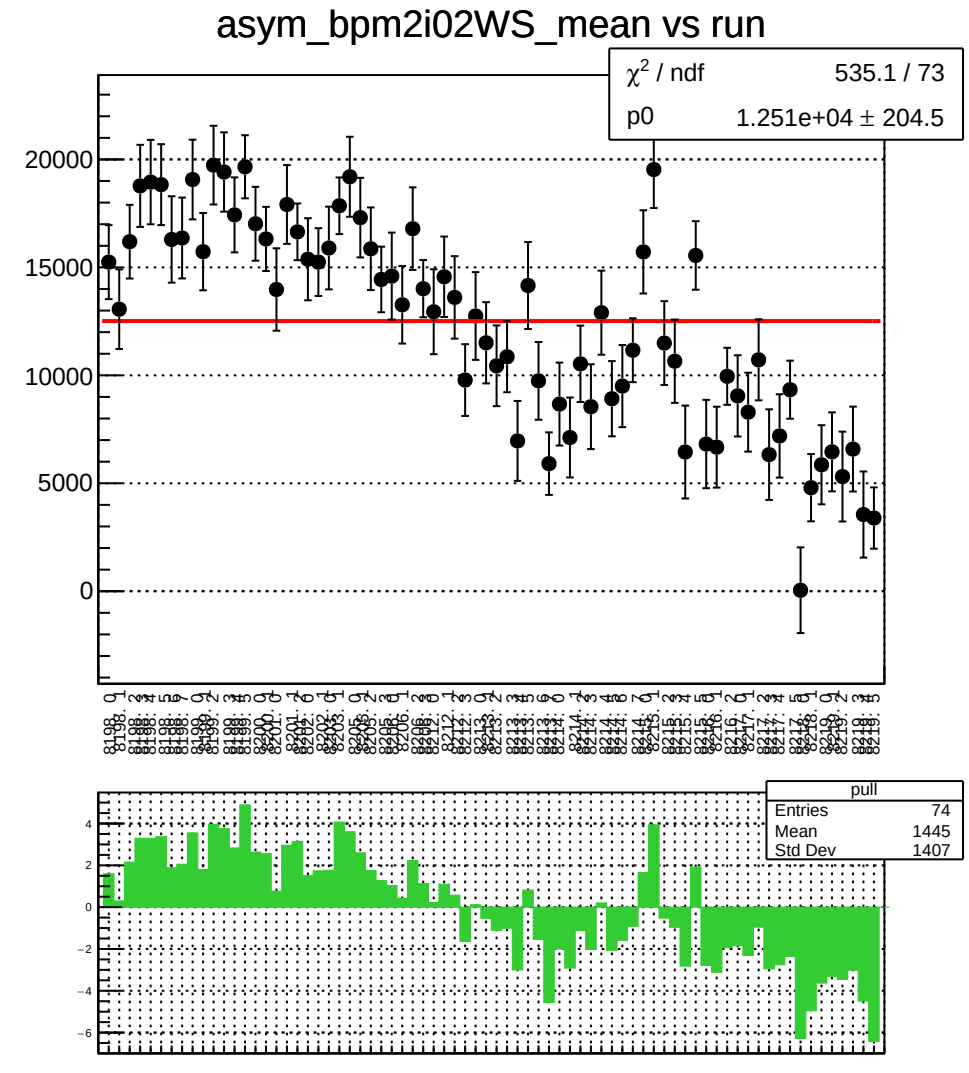

pull1D
Entries 74
Mean −0.03709
Std Dev 2.856

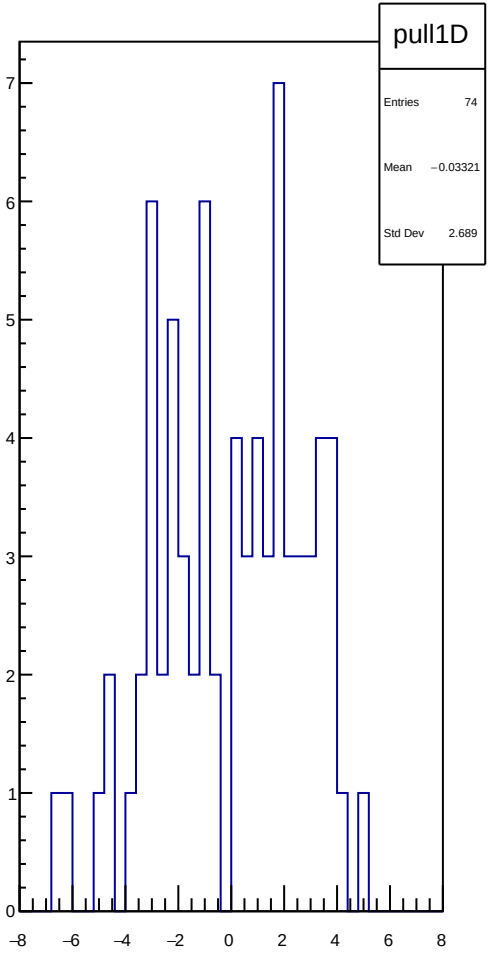

asym_bpm1i02WS_rms vs run
χ^2 / ndf 4359 / 73
p0 173.8 ± 0.142
190
180
170
160
150

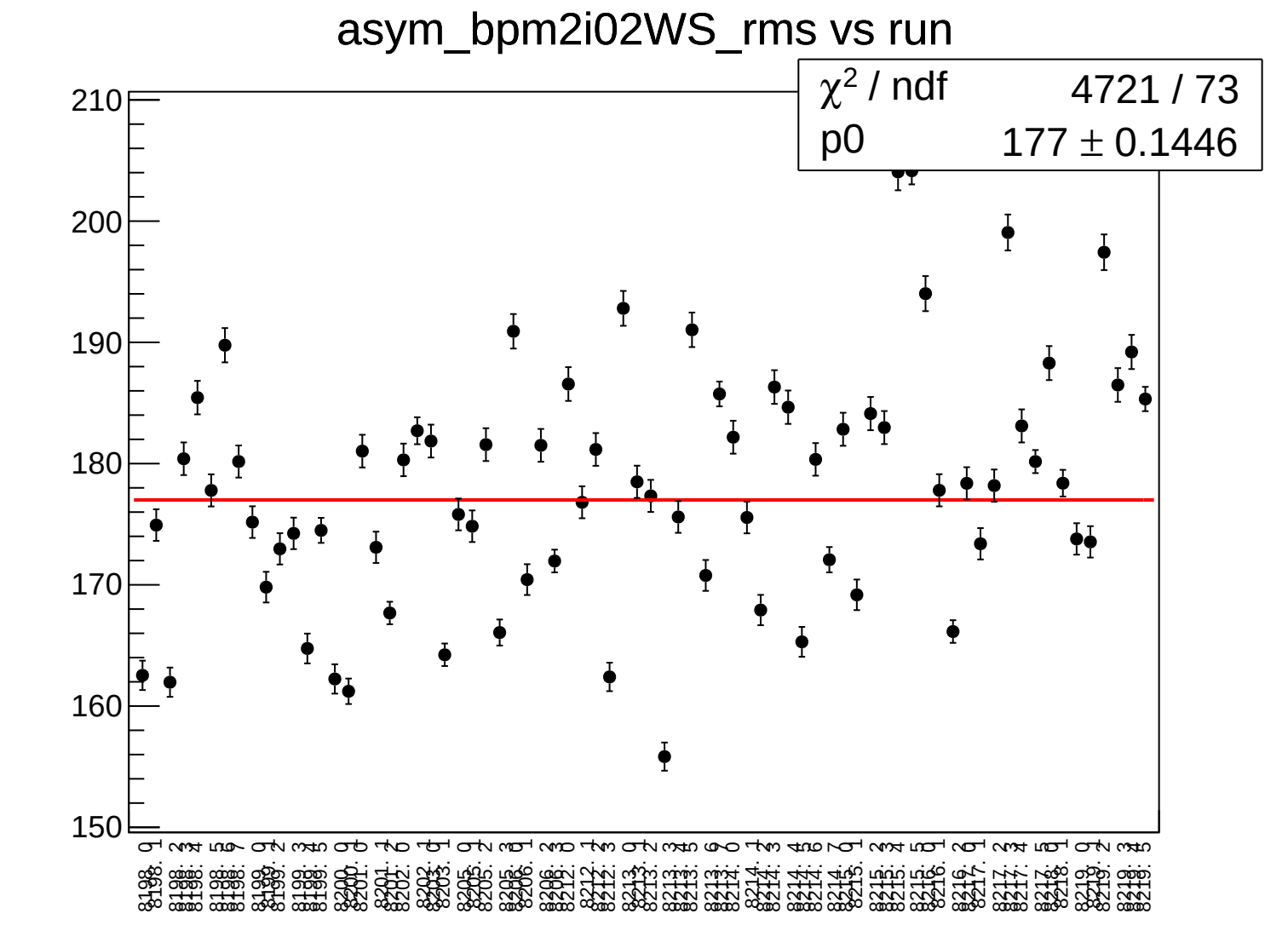

asym_bpm2i01WS_mean vs run
χ² / ndf 615.5 / 73
p0 1.215e+04 ± 192.9
20000
15000
10000
5000
0
pull
Entries 74
Mean 3088
Std Dev 3050
4
2
0
−2
−4
−6

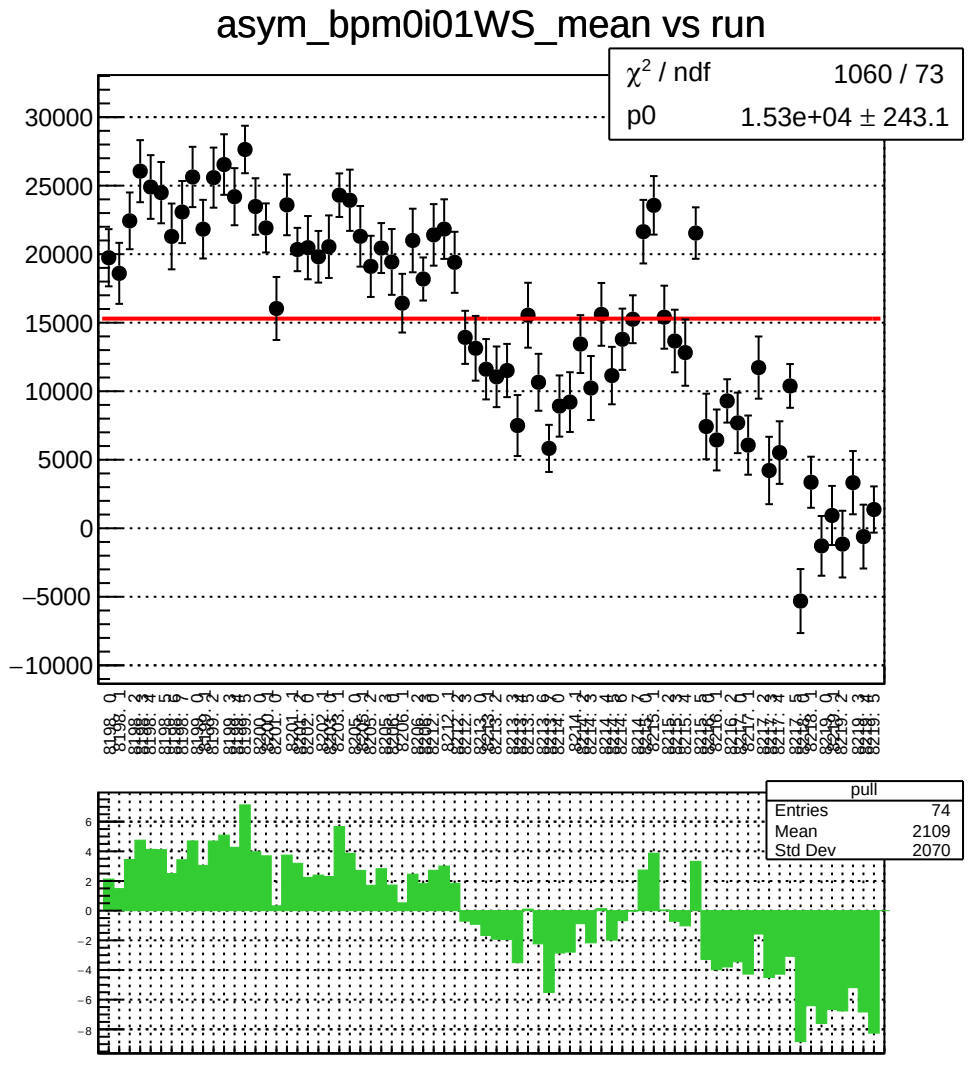

pull1D
Entries 74
Mean −0.01634
Std Dev 2.884
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

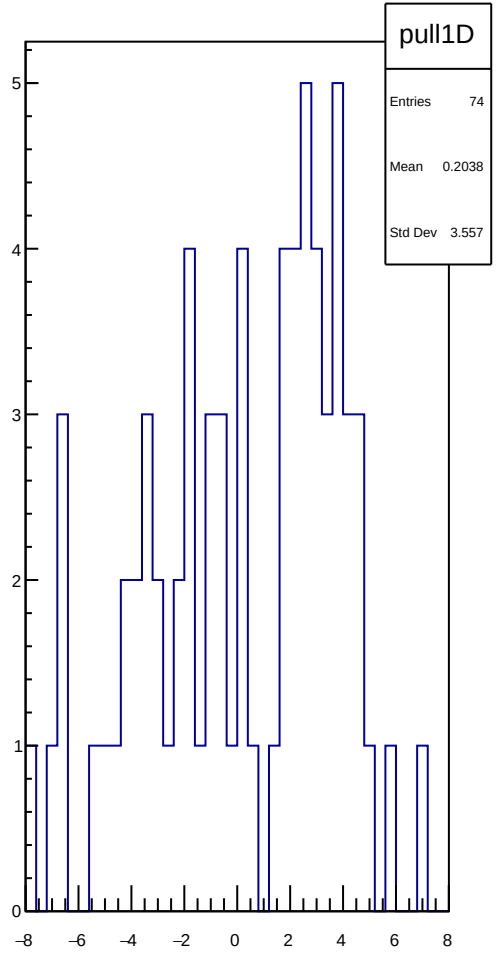

asym_bpm2i01WS_rms vs run
χ² / ndf 3391 / 73
p0 167 ± 0.1364
190
180
170
160
150

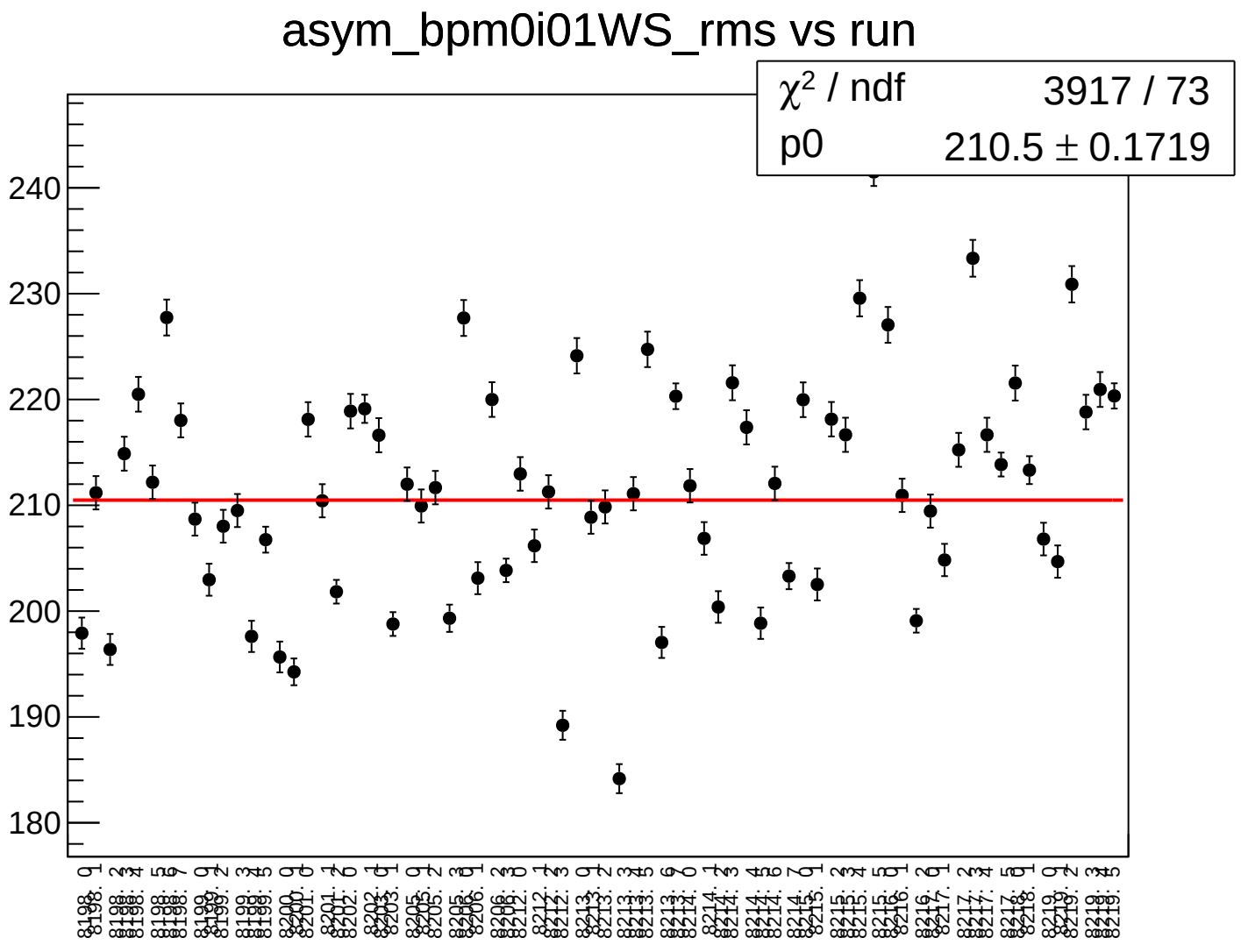

asym_bpm2i02WS_mean vs run
χ² / ndf 535.1 / 73
p0 1.251e+04 ± 204.5
20000
15000
10000
5000
0
pull
Entries 74
Mean 1445
Std Dev 1407
4
2
0
−2
−4
−6

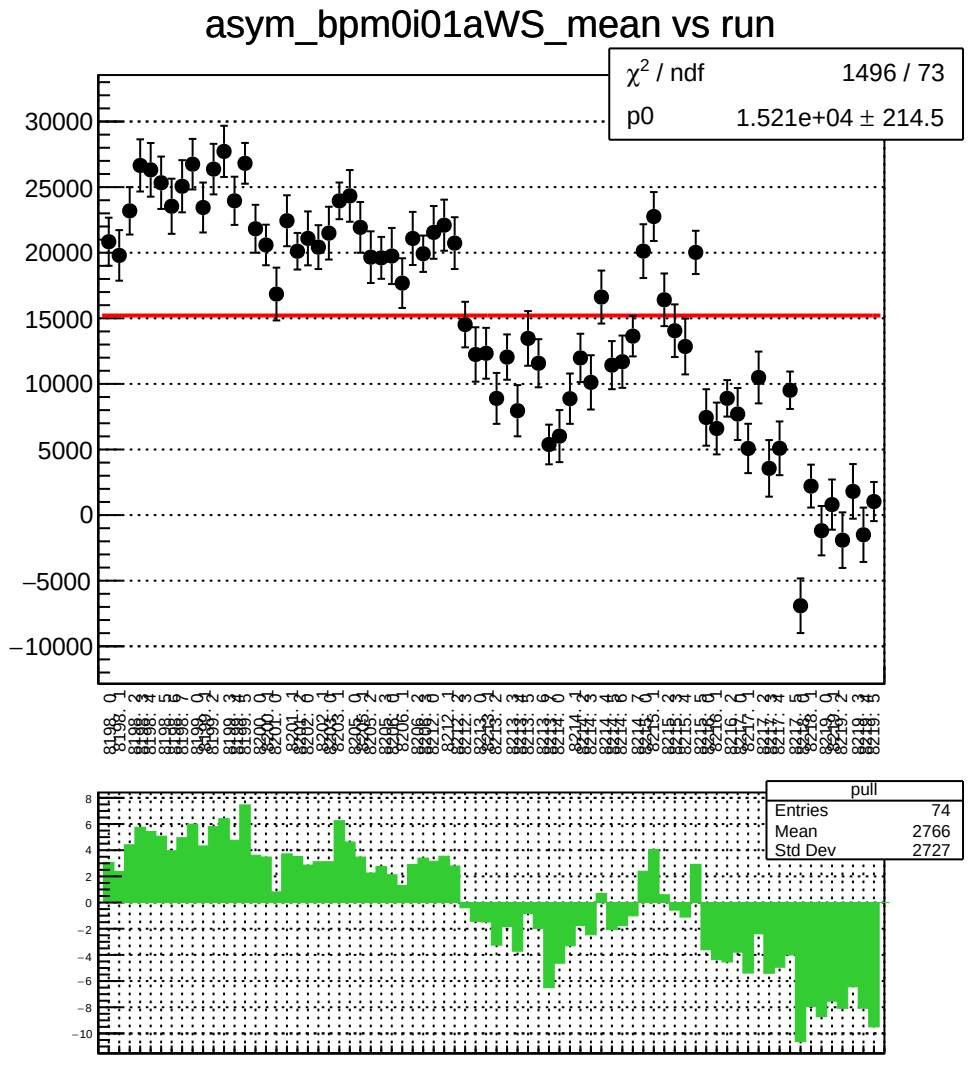

pull1D
Entries 74
Mean −0.03321
Std Dev 2.689
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

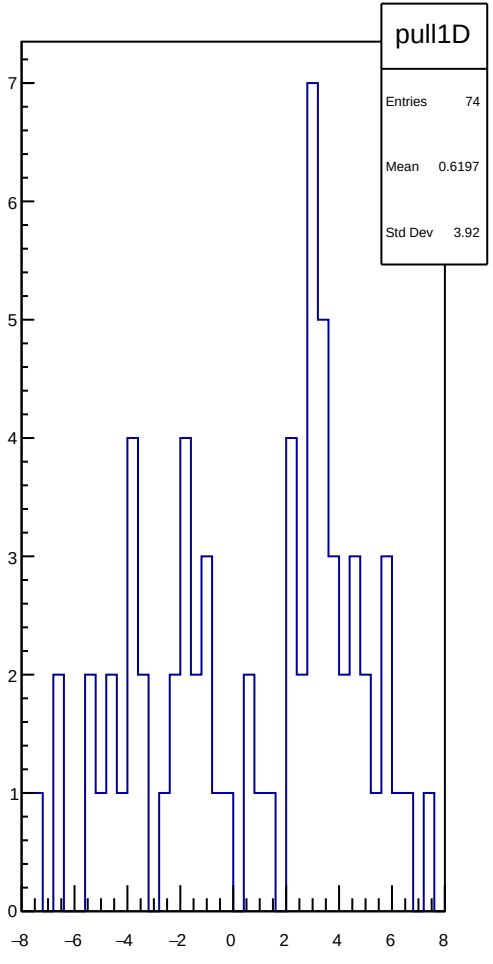

asym_bpm2i02WS_rms vs run
χ² / ndf 4721 / 73
p0 177 ± 0.1446
210
200
190
180
170
160
150

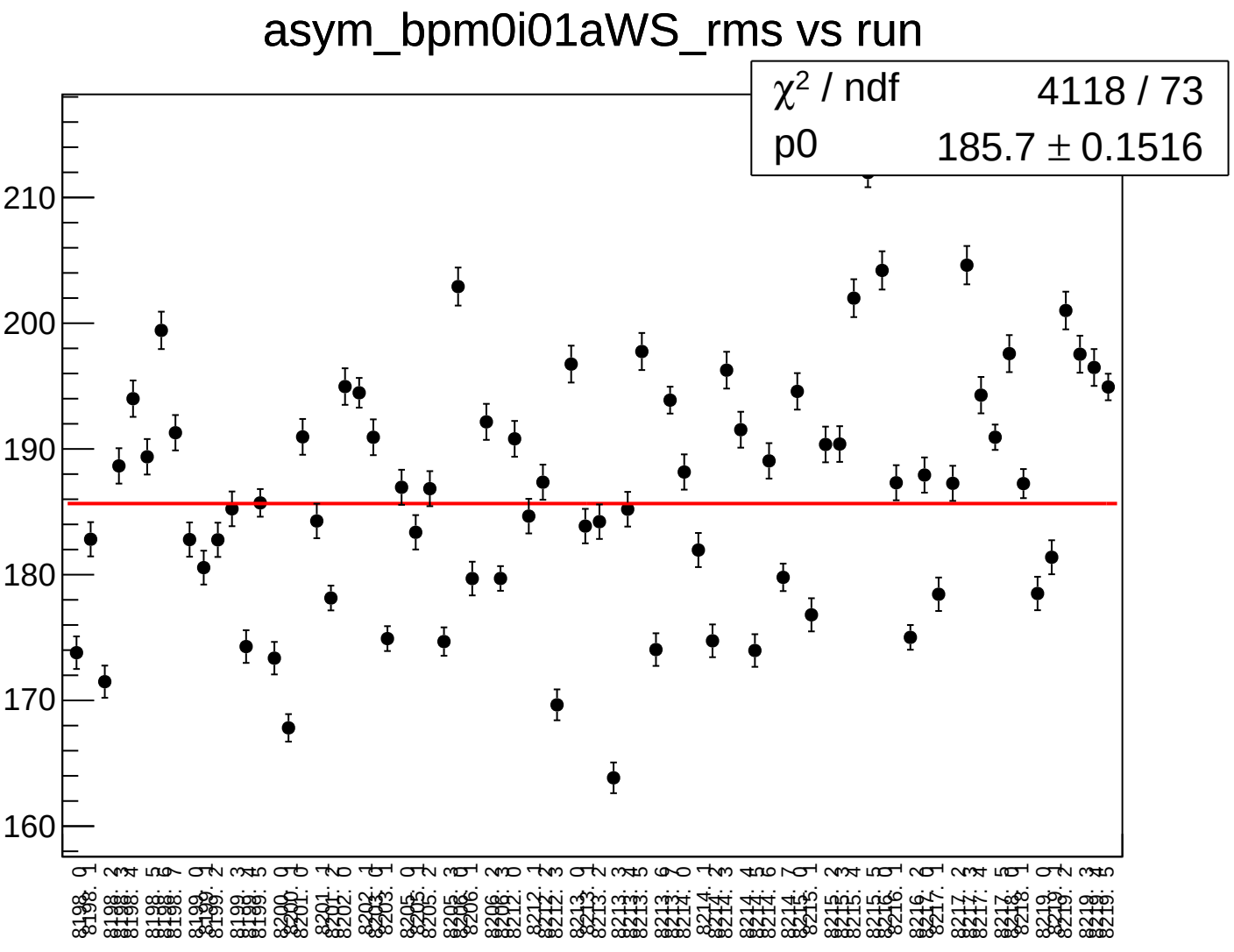

asym_bpm0i01WS_mean vs run
χ² / ndf 1060 / 73
p0 1.53e+04 ± 243.1
pull
Entries 74
Mean 2109
Std Dev 2070

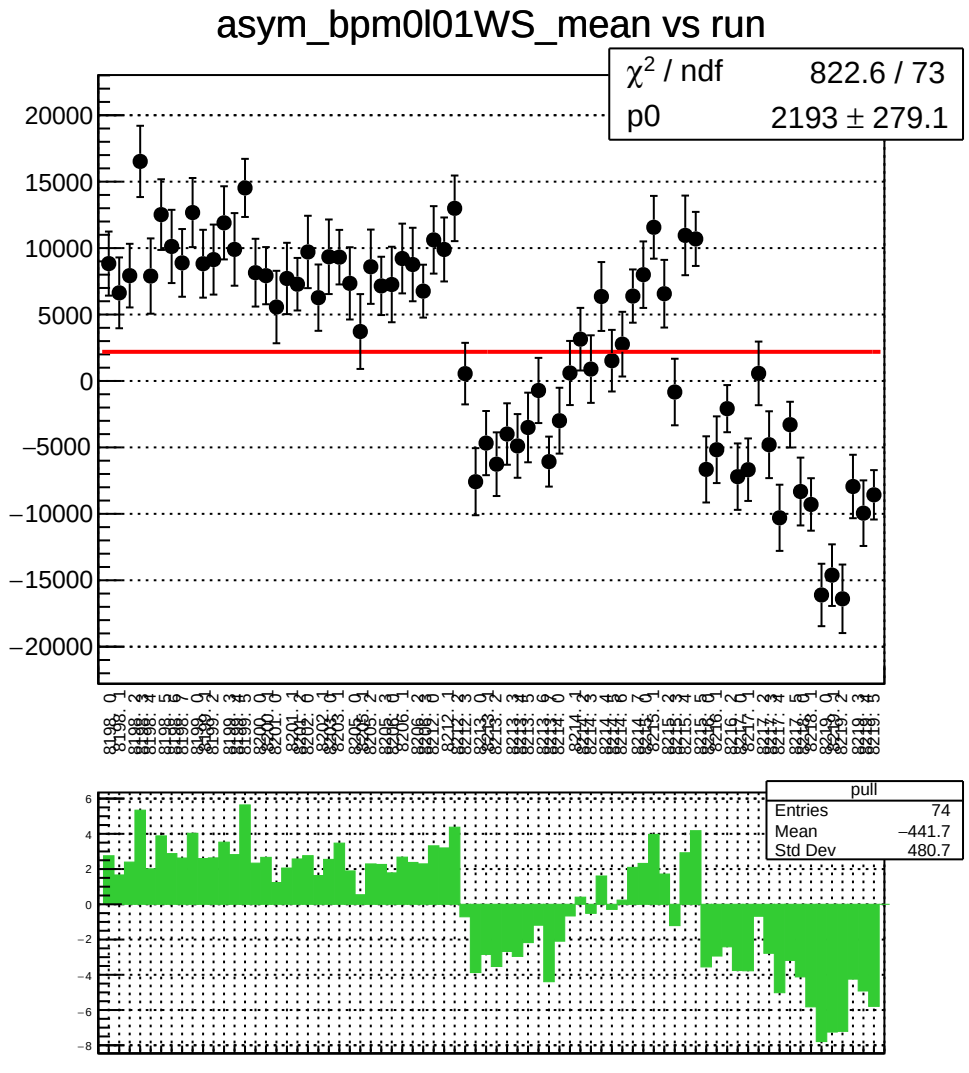

pull1D
Entries 74
Mean 0.2038
Std Dev 3.557

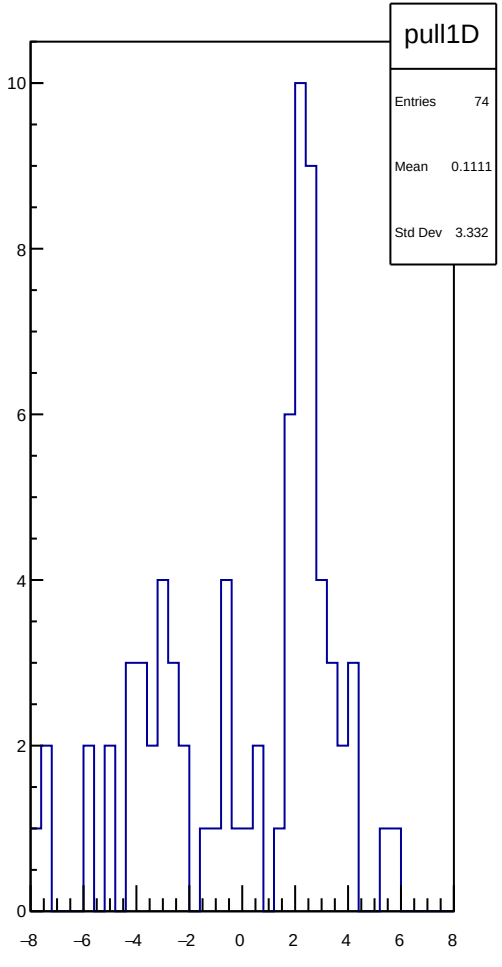

asym_bpm0i01WS_rms vs run
χ² / ndf 3917 / 73
p0 210.5 ± 0.1719
240
230
220
210
200
190
180

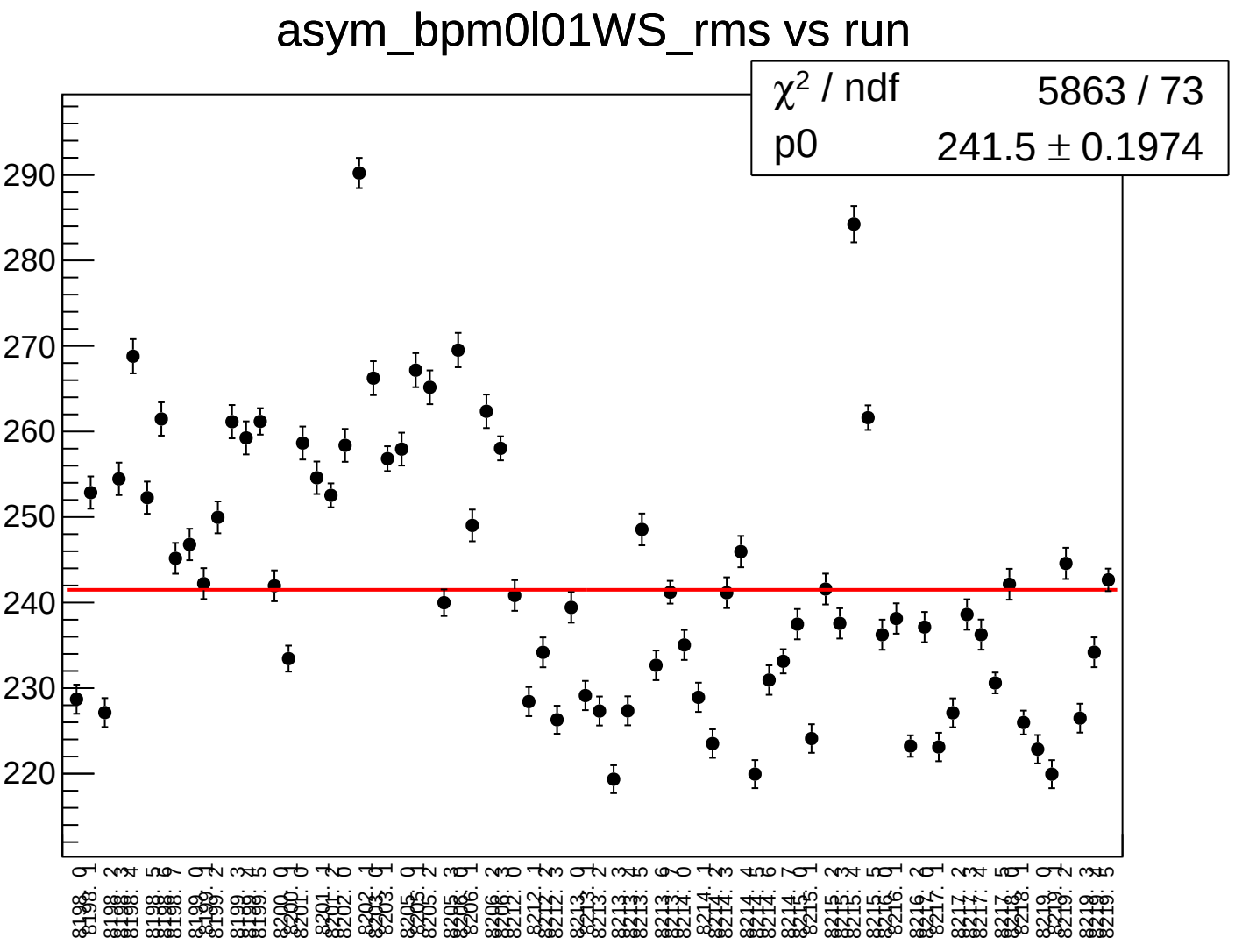

asym_bpm0i01aWS_mean vs run
χ² / ndf 1496 / 73
p0 1.521e+04 ± 214.5
pull
Entries 74
Mean 2766
Std Dev 2727

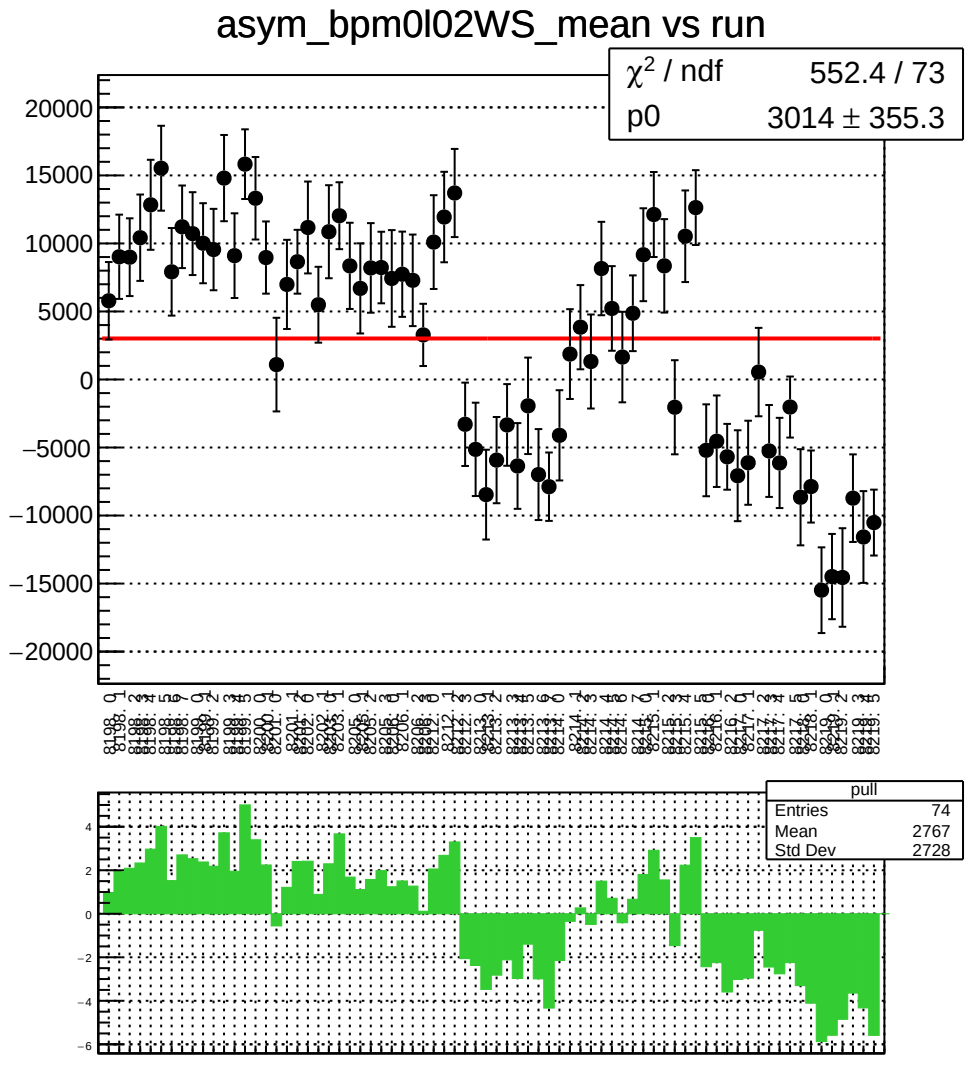

pull1D
Entries 74
Mean 0.6197
Std Dev 3.92

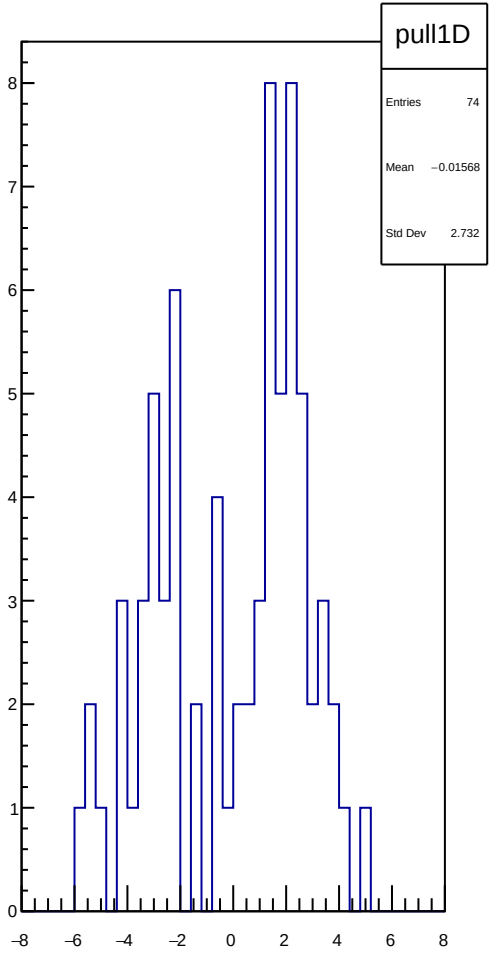

asym_bpm0i01aWS_rms vs run
χ² / ndf 4118 / 73
p0 185.7 ± 0.1516
210
200
190
180
170
160

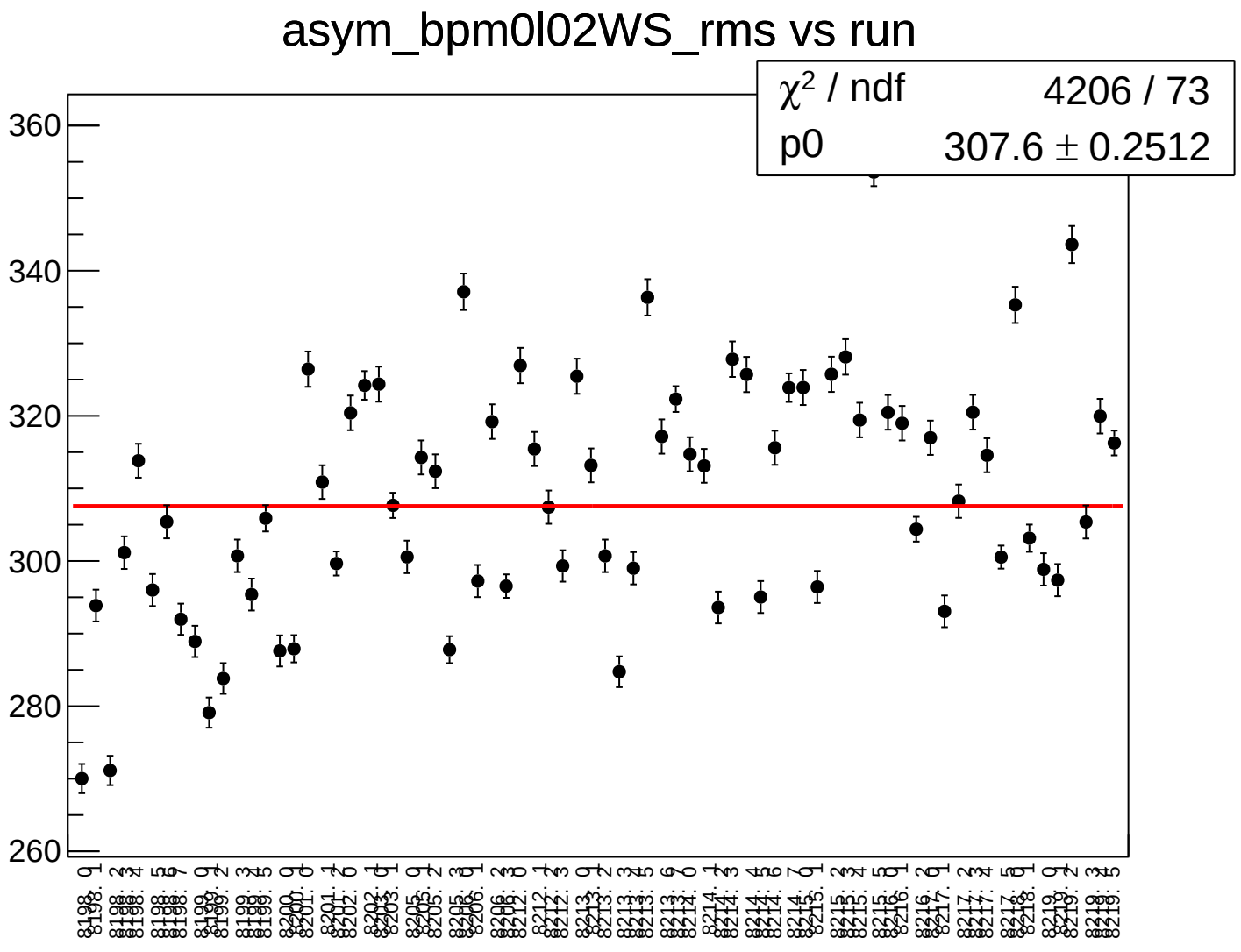

asym_bpm0l01WS_mean vs run
χ² / ndf 822.6 / 73
p0 2193 ± 279.1
pull
Entries 74
Mean −441.7
Std Dev 480.7

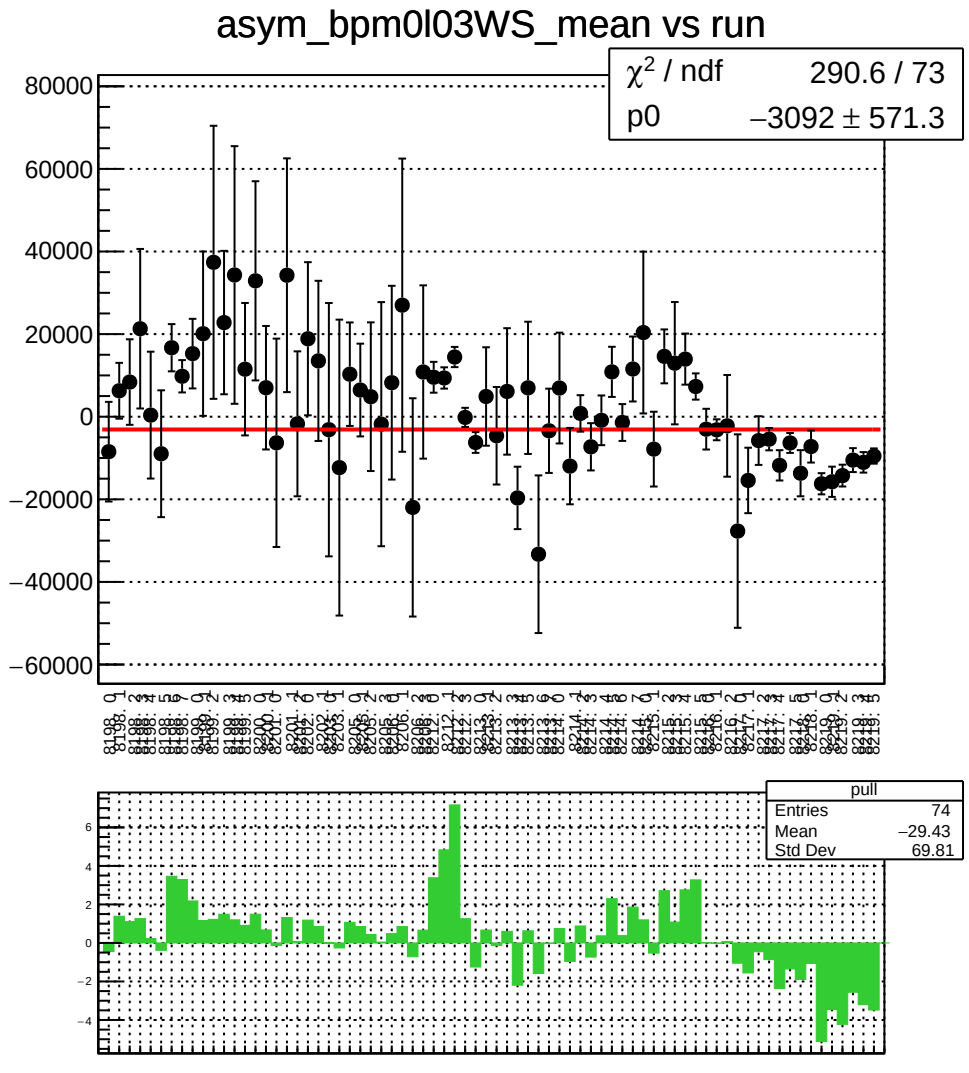

pull1D
Entries 74
Mean 0.1111
Std Dev 3.332

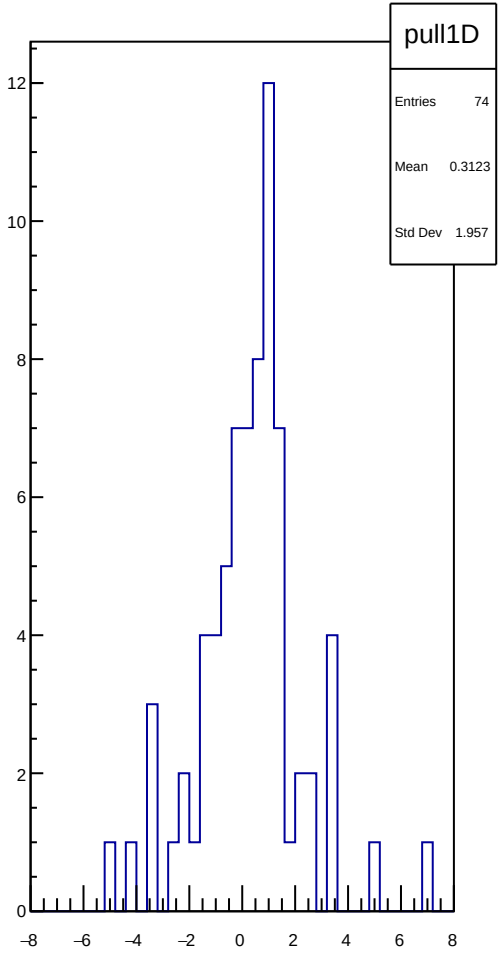

asym_bpm0l01WS_rms vs run
χ^2 / ndf 5863 / 73
p0 241.5 ± 0.1974
290
280
270
260
250
240
230
220

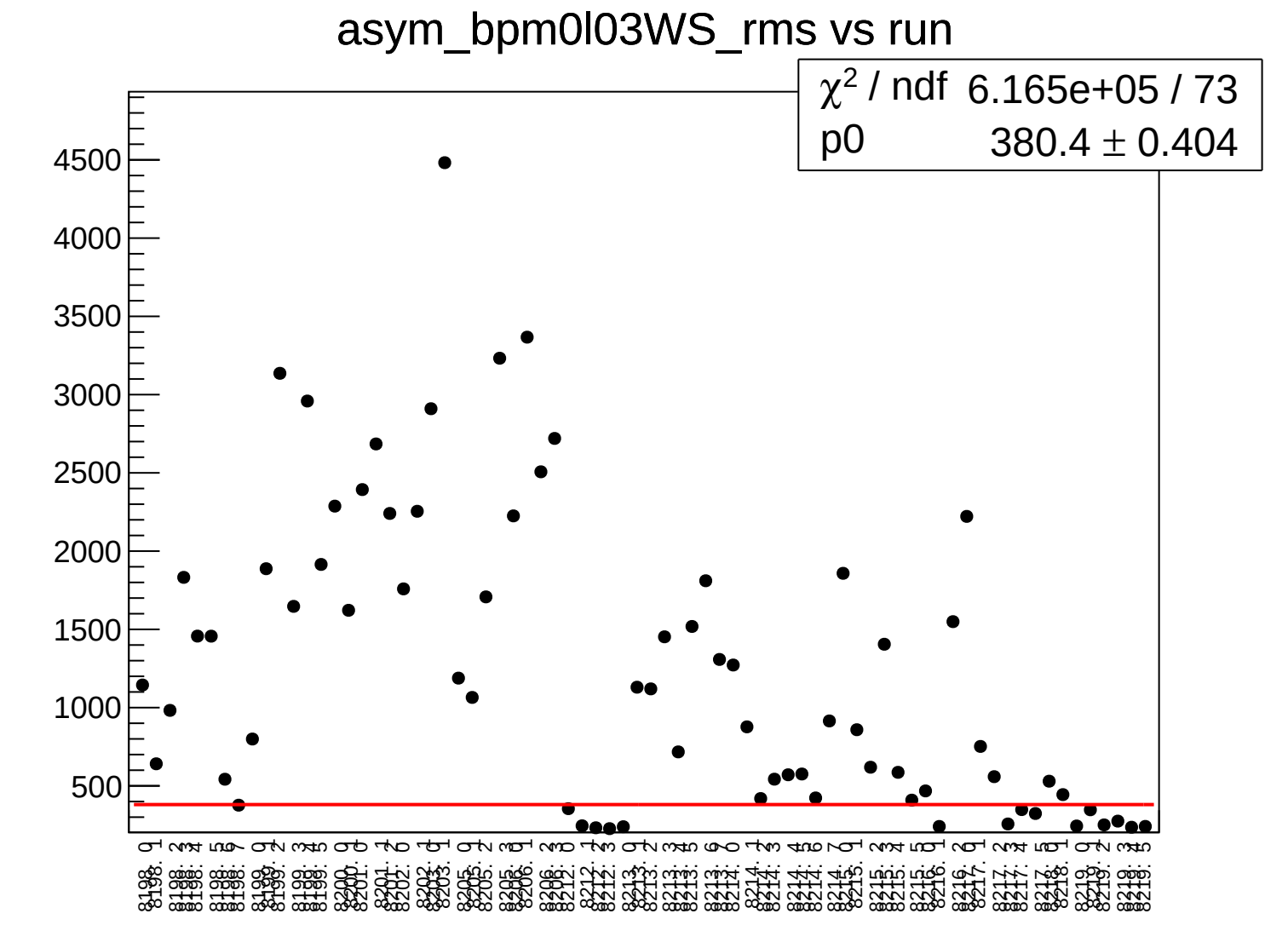

asym_bpm0l02WS_mean vs run
χ² / ndf 552.4 / 73
p0 3014 ± 355.3
pull
Entries 74
Mean 2767
Std Dev 2728

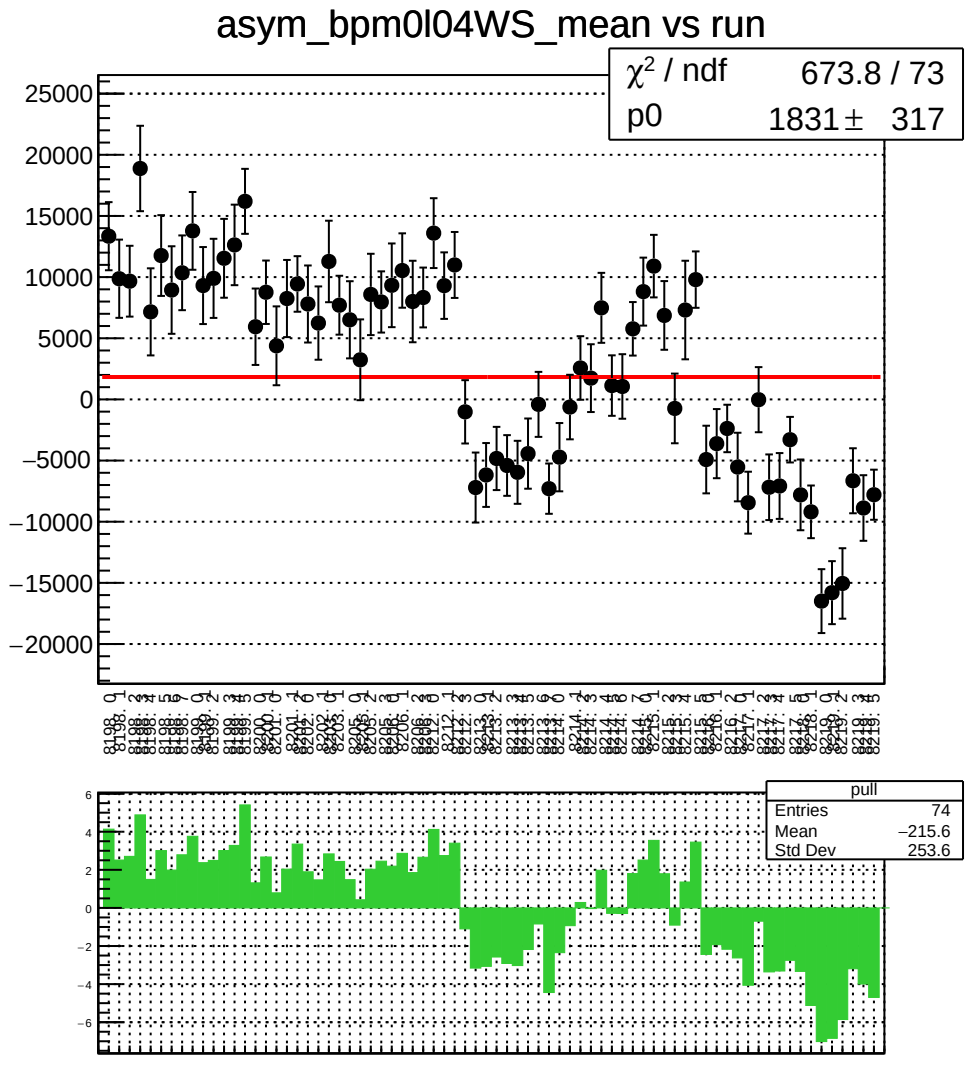

pull1D
Entries 74
Mean −0.01568
Std Dev 2.732

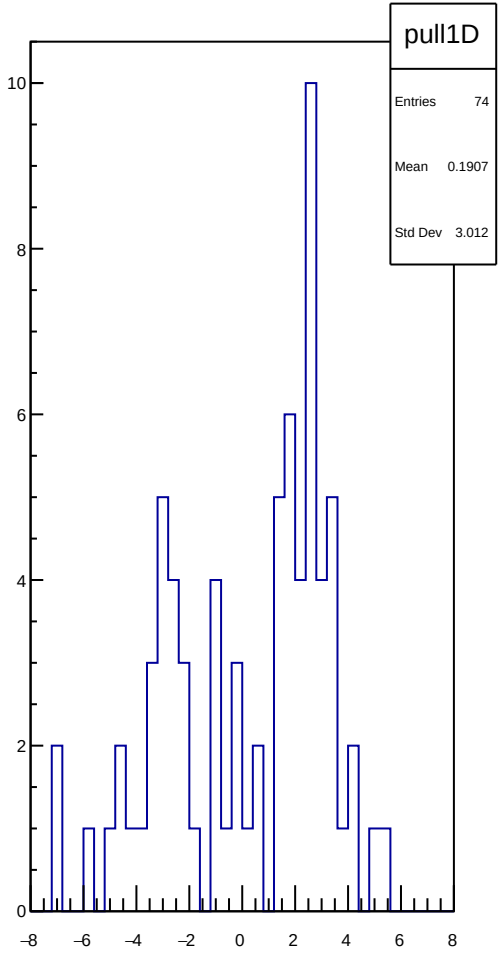

asym_bpm0l02WS_rms vs run
χ² / ndf 4206 / 73
p0 307.6 ± 0.2512
360
340
320
300
280
260

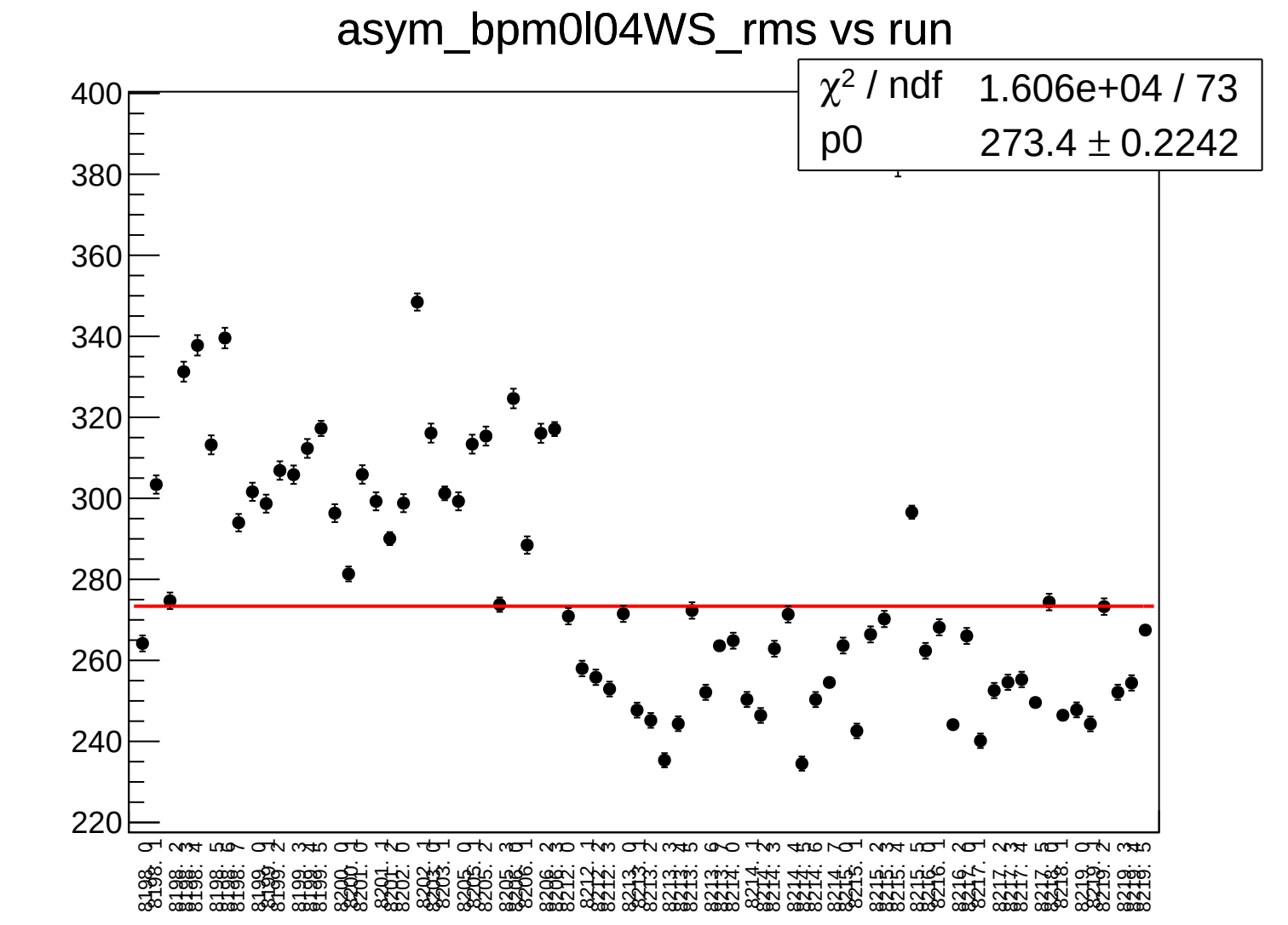

asym_bpm0l03WS_mean vs run
χ² / ndf 290.6 / 73
p0 −3092 ± 571.3
pull
Entries 74
Mean −29.43
Std Dev 69.81

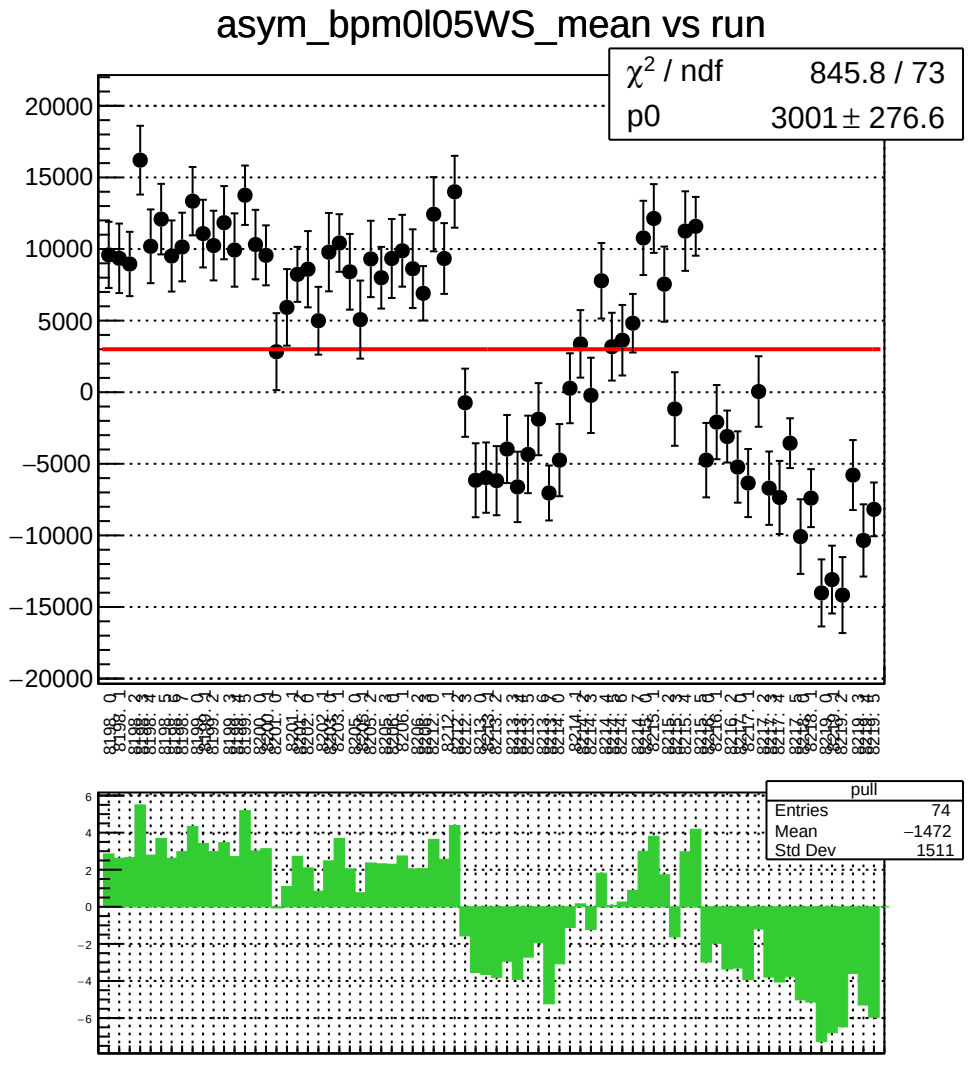

pull1D
Entries 74
Mean 0.3123
Std Dev 1.957

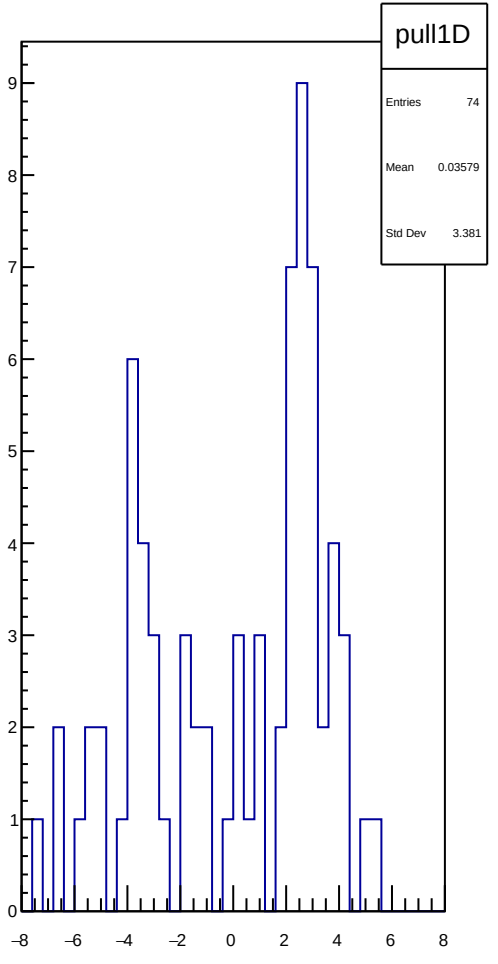

asym_bpm0l03WS_rms vs run
χ^2 / ndf 6.165e+05 / 73
p0 380.4 ± 0.404
4500
4000
3500
3000
2500
2000
1500
1000
500

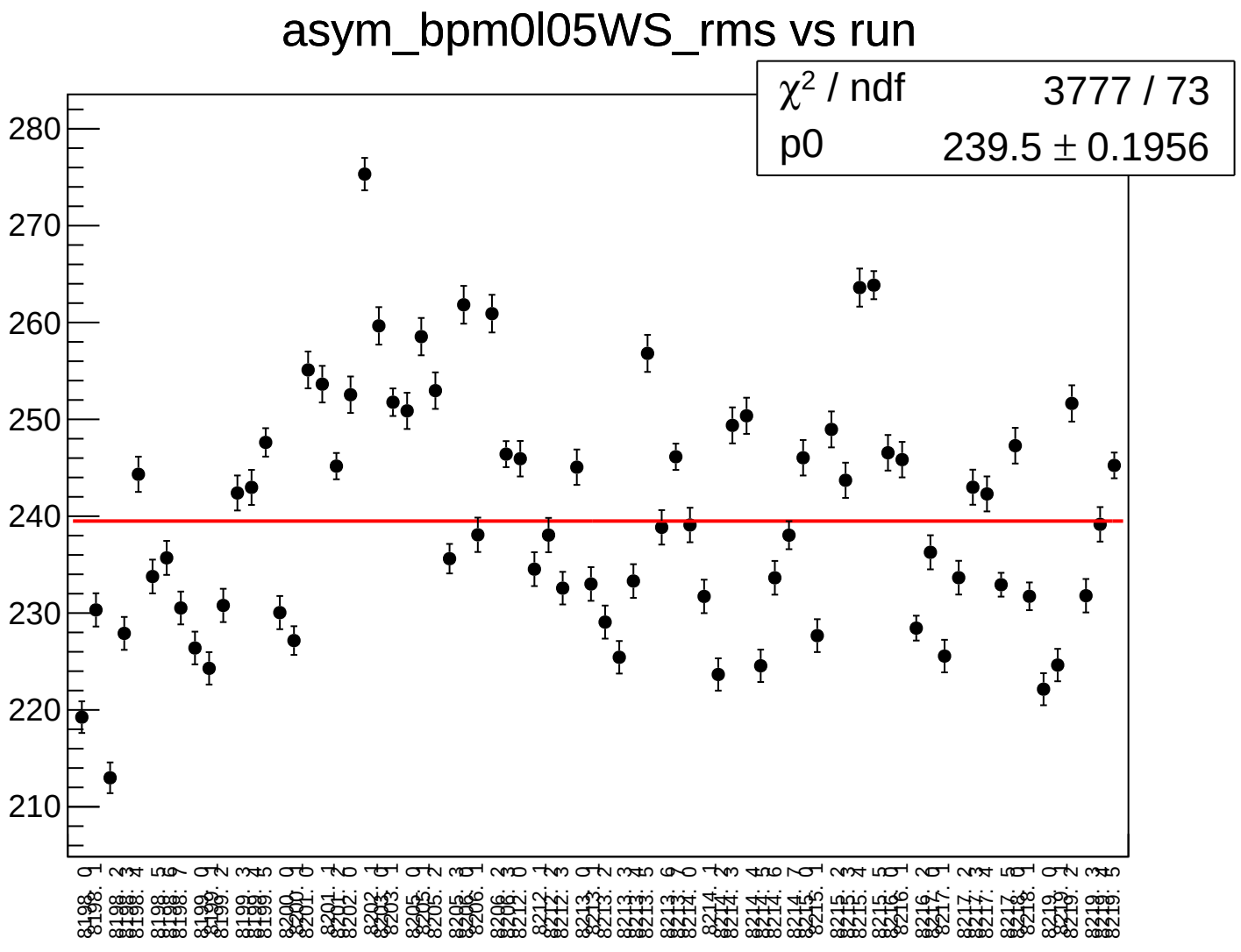

asym_bpm0l04WS_mean vs run
χ² / ndf 673.8 / 73
p0 1831 ± 317
pull
Entries 74
Mean −215.6
Std Dev 253.6

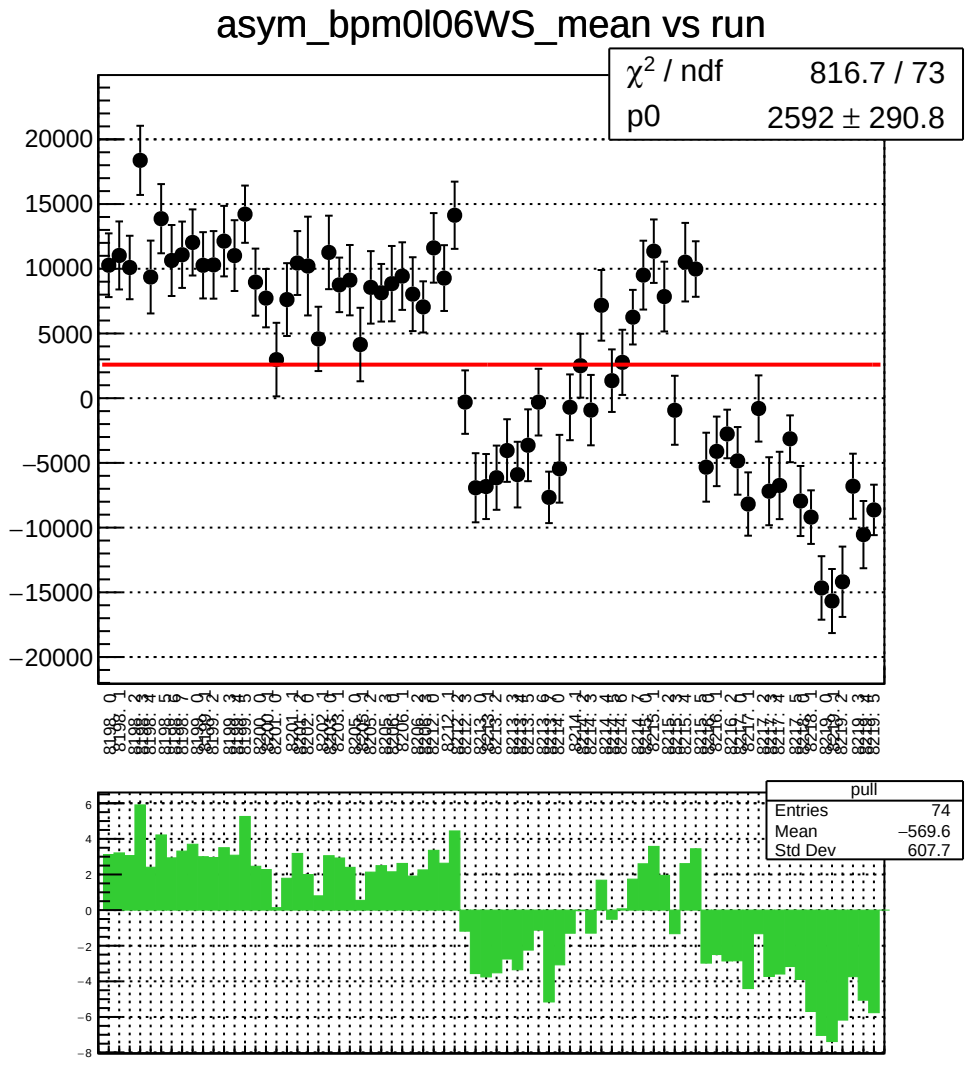

pull1D
Entries 74
Mean 0.1907
Std Dev 3.012

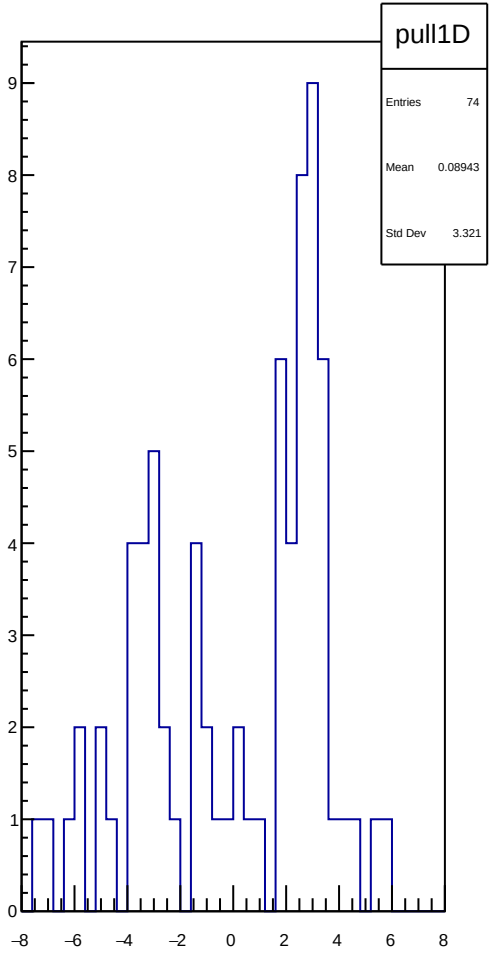

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.606e+04 / 73
p0 273.4 ± 0.2242
400
380
360
340
320
300
280
260
240
220

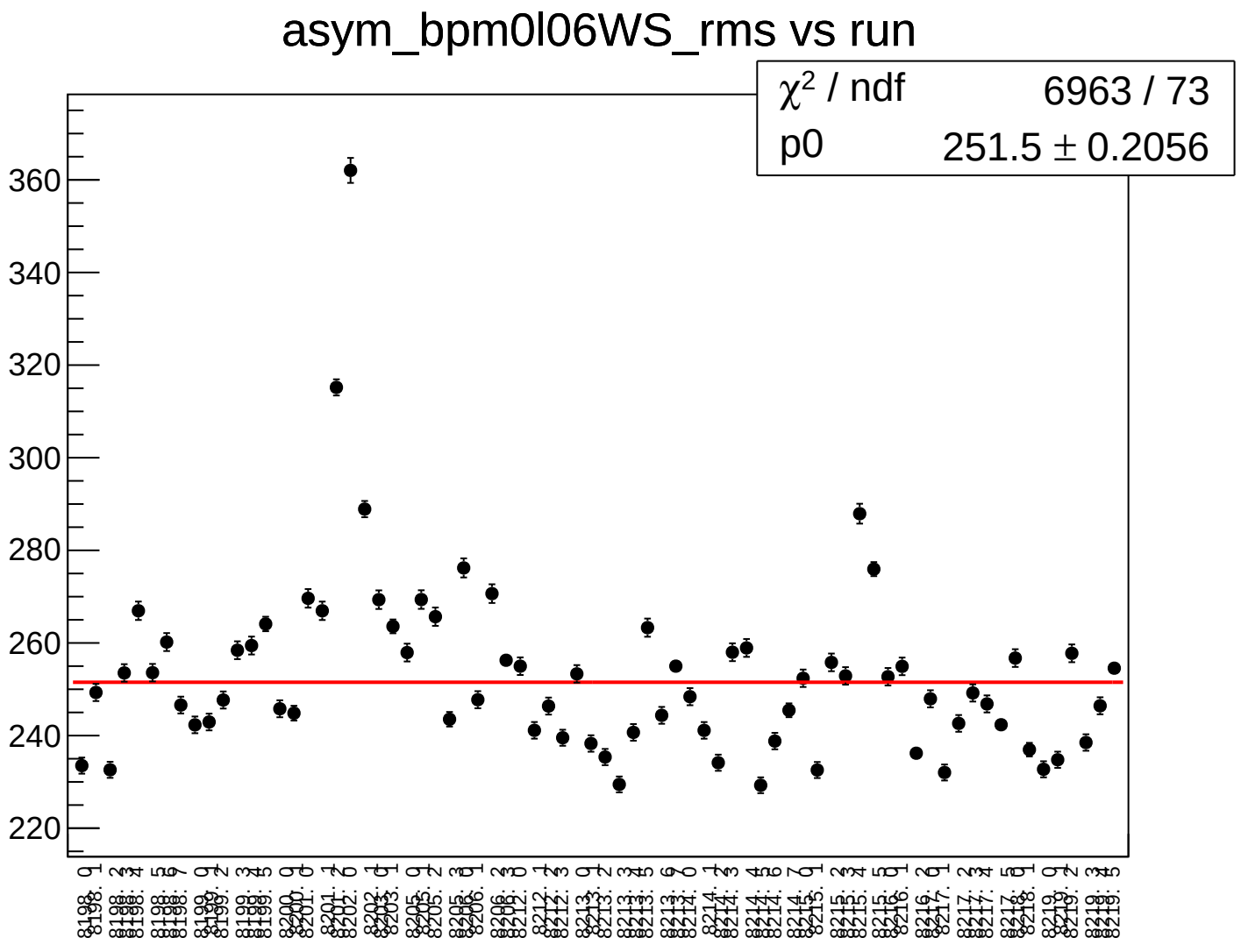

asym_bpm0l05WS_mean vs run
χ² / ndf 845.8 / 73
p0 3001 ± 276.6
pull
Entries 74
Mean −1472
Std Dev 1511

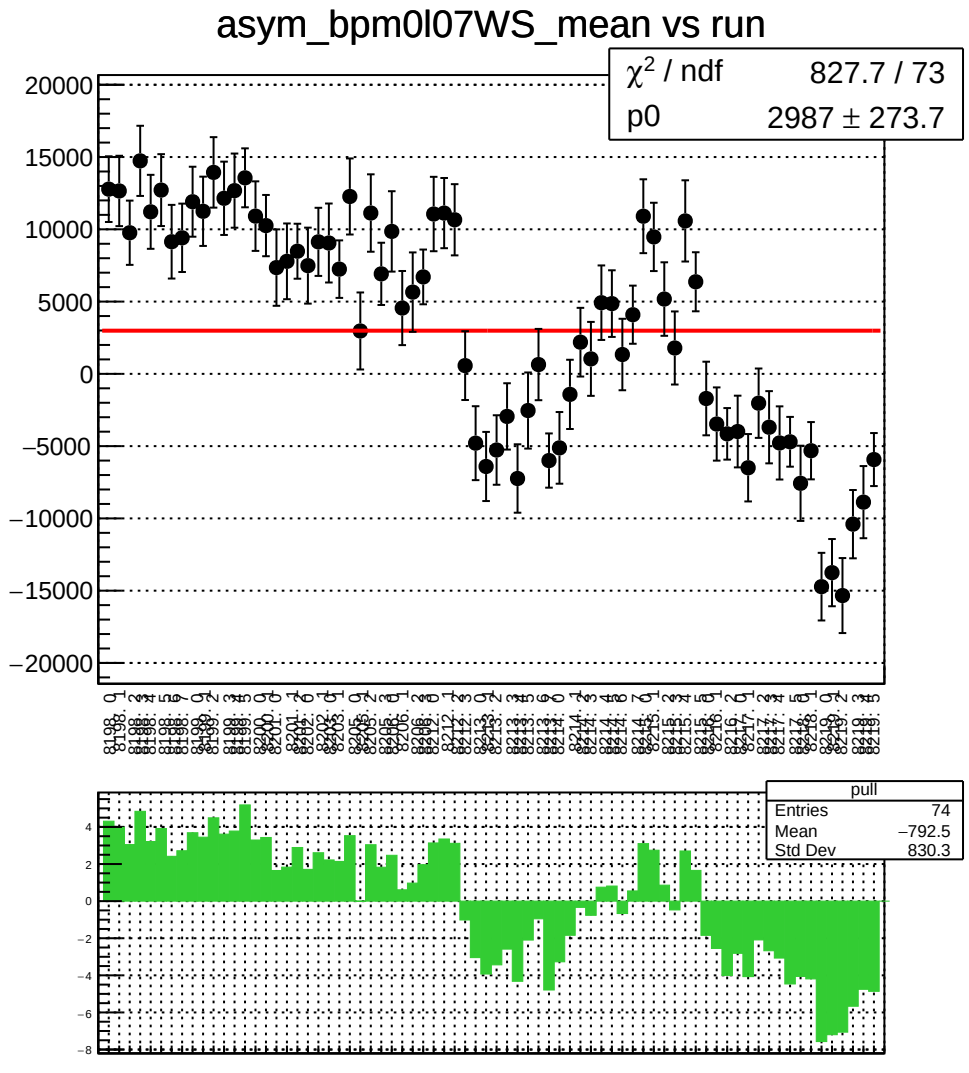

pull1D
Entries 74
Mean 0.03579
Std Dev 3.381

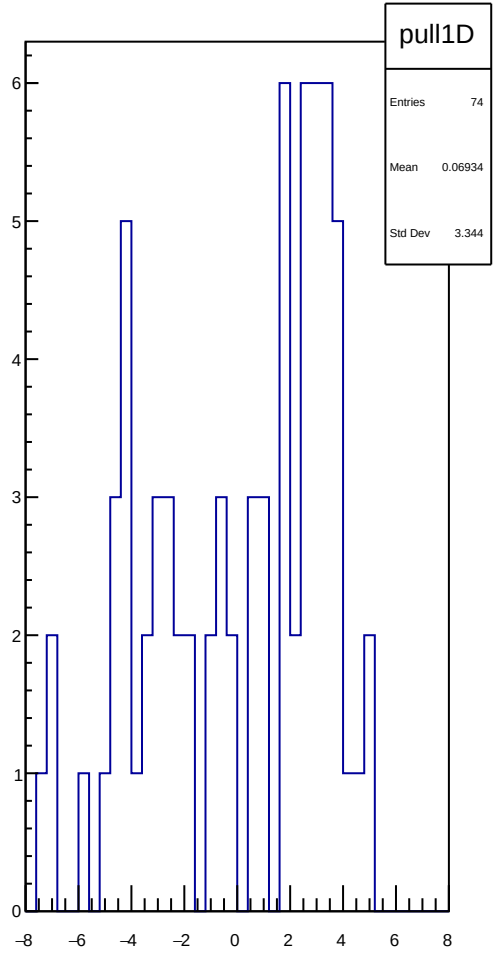

asym_bpm0l05WS_rms vs run
χ² / ndf 3777 / 73
p0 239.5 ± 0.1956
280
270
260
250
240
230
220
210

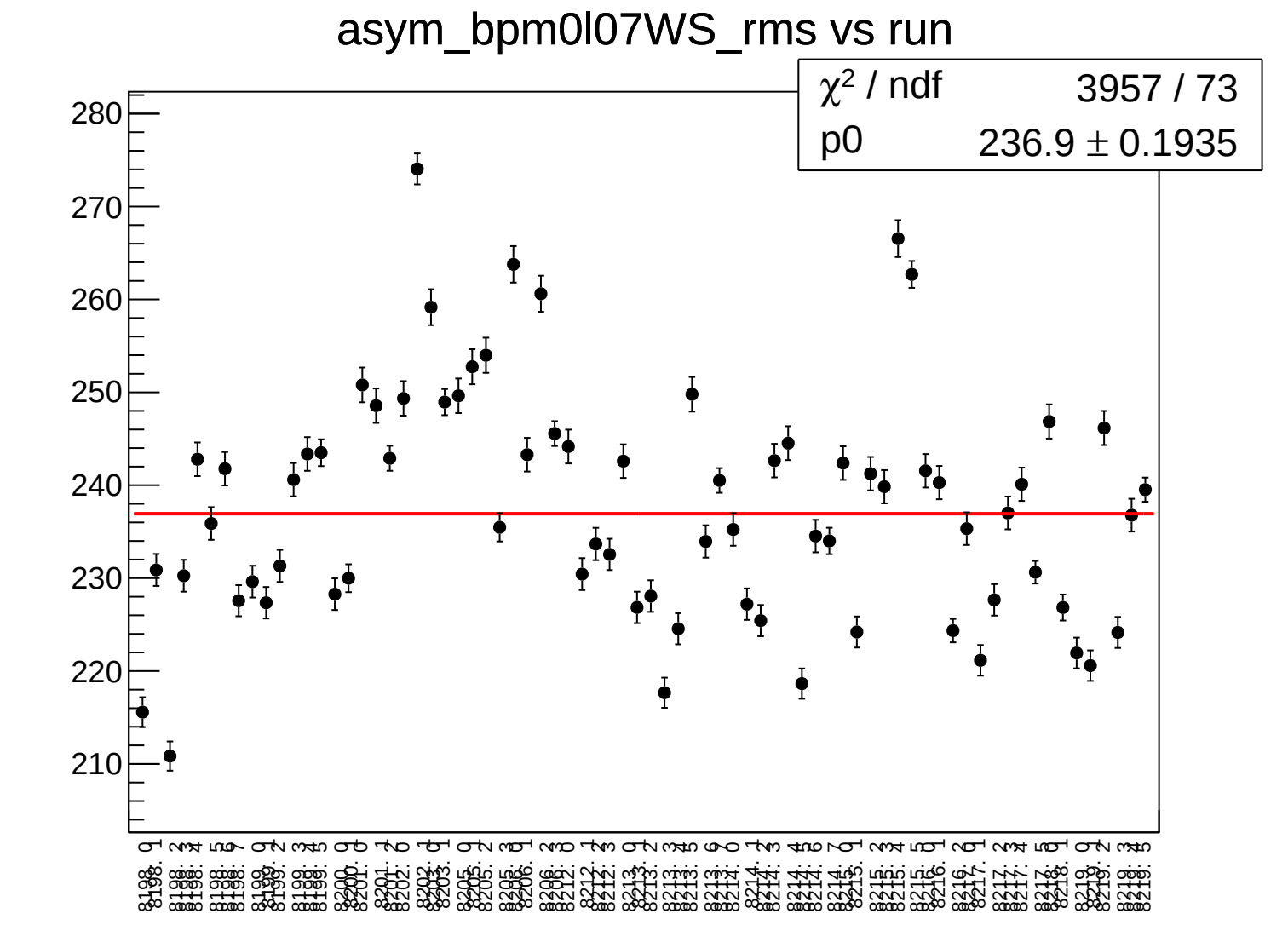

asym_bpm0l06WS_mean vs run
χ² / ndf 816.7 / 73
p0 2592 ± 290.8
pull
Entries 74
Mean −569.6
Std Dev 607.7

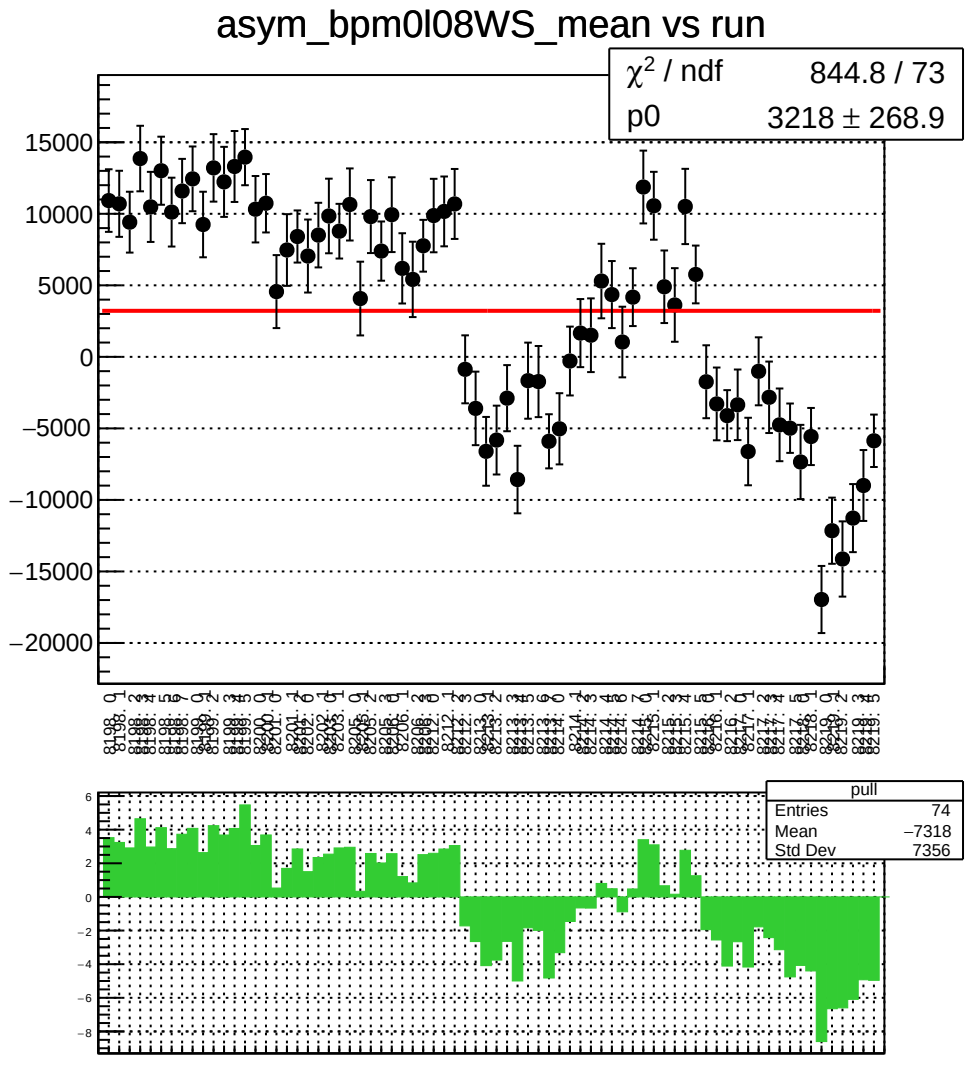

pull1D
Entries 74
Mean 0.08943
Std Dev 3.321

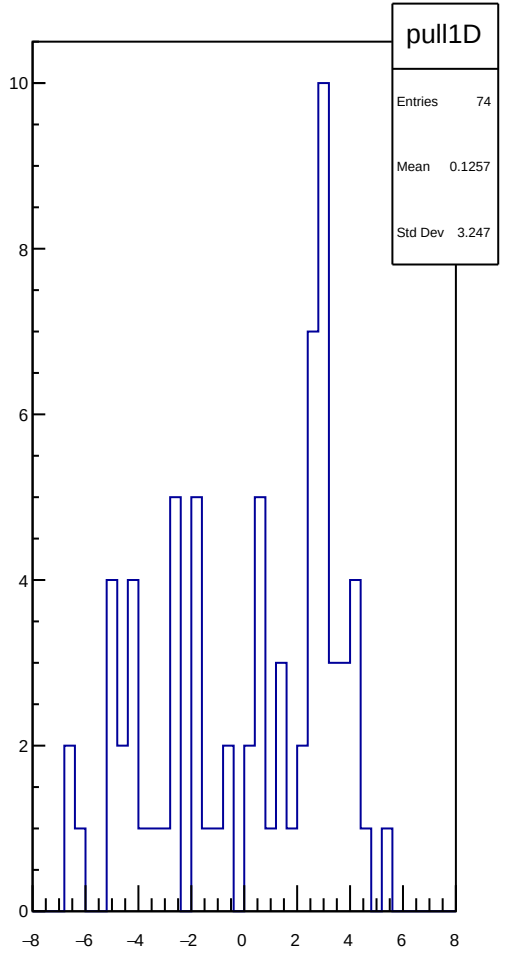

asym_bpm0l06WS_rms vs run
χ² / ndf 6963 / 73
p0 251.5 ± 0.2056
360
340
320
300
280
260
240
220

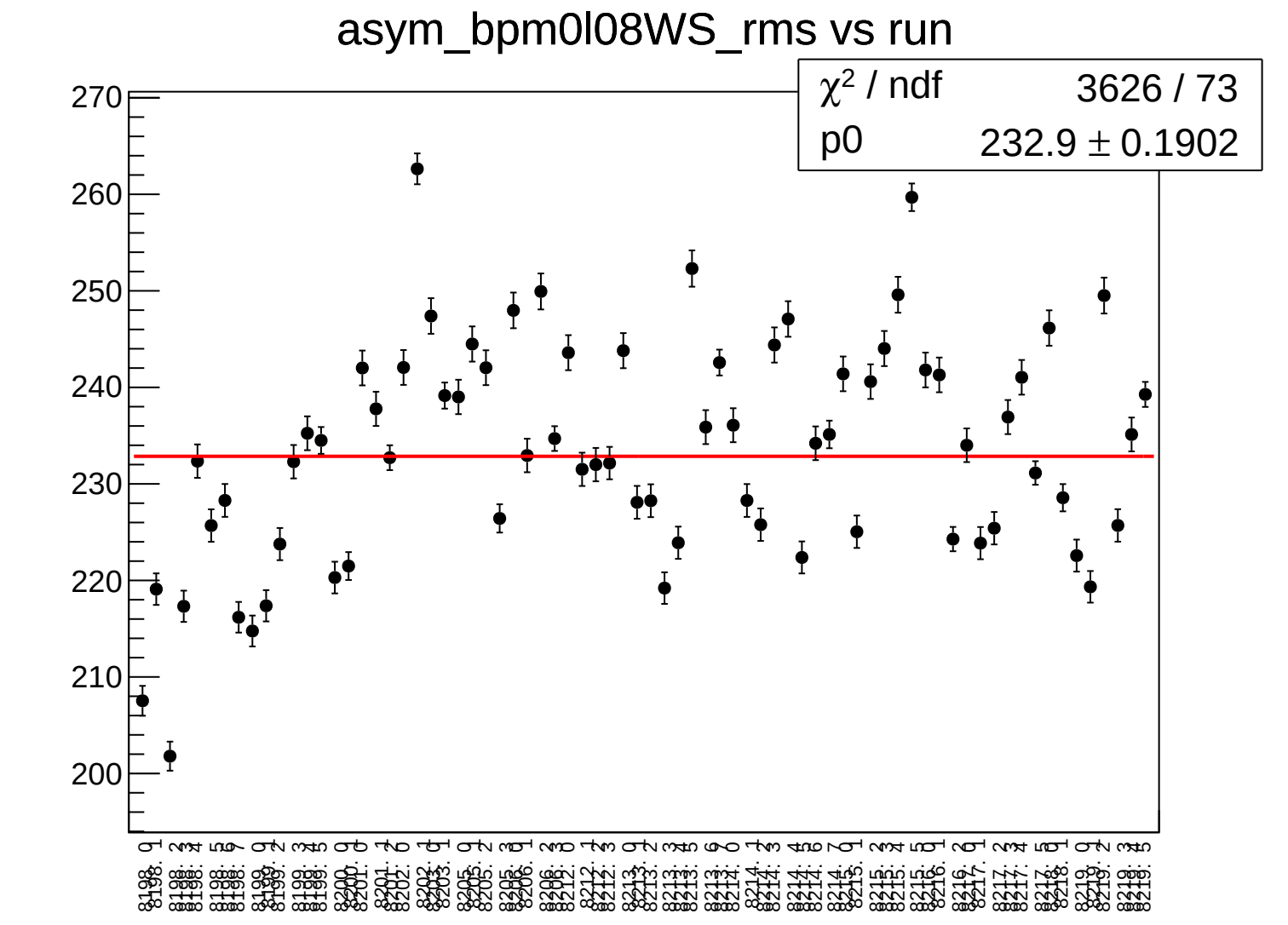

asym_bpm0l07WS_mean vs run
χ² / ndf 827.7 / 73
p0 2987 ± 273.7
pull
Entries 74
Mean −792.5
Std Dev 830.3

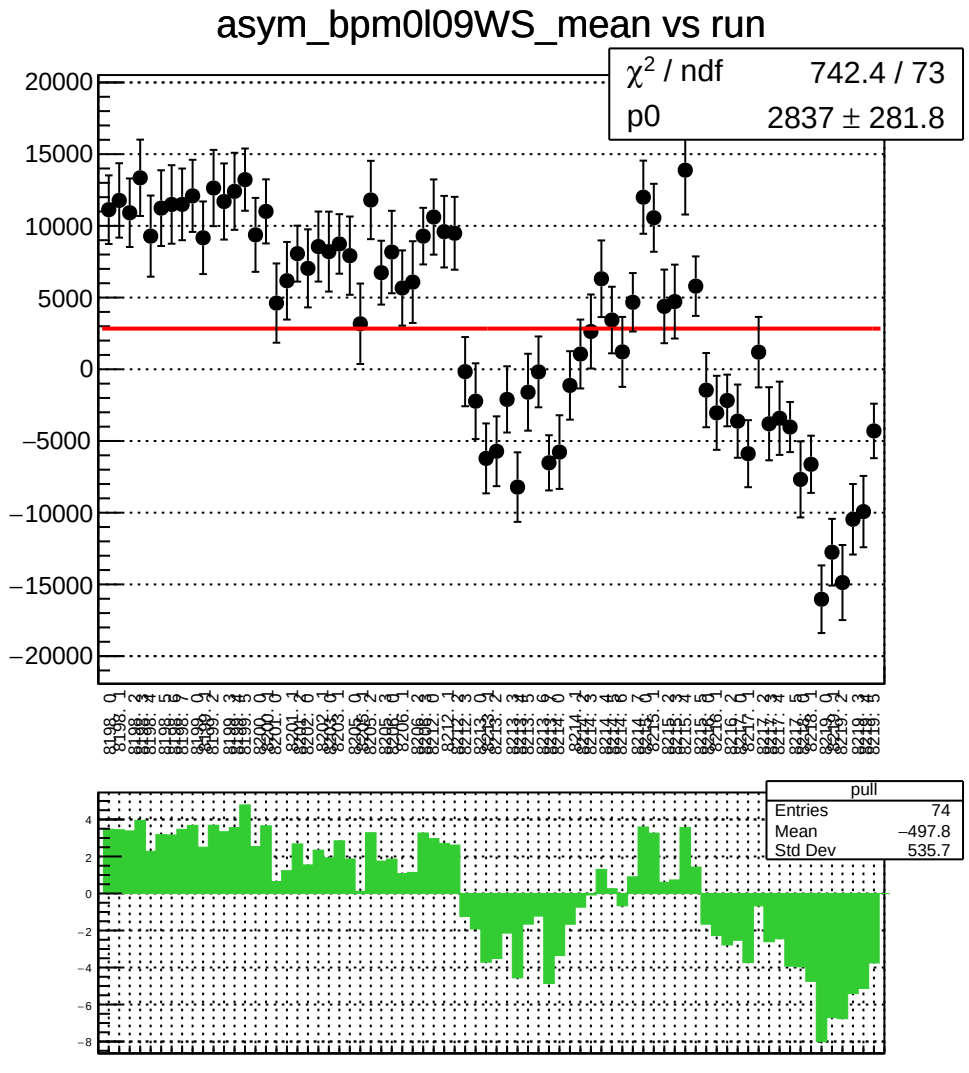

pull1D
Entries 74
Mean 0.06934
Std Dev 3.344

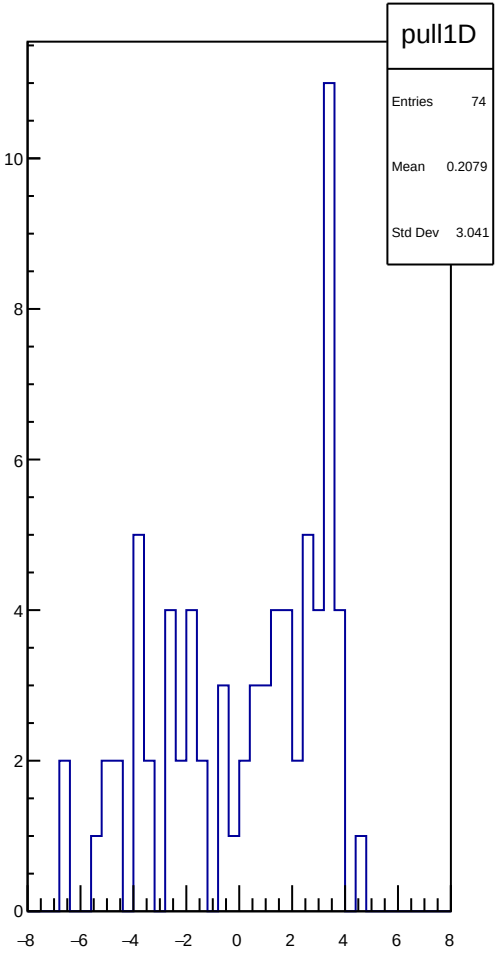

asym_bpm0l07WS_rms vs run
χ^2 / ndf 3957 / 73
p0 236.9 ± 0.1935
280
270
260
250
240
230
220
210

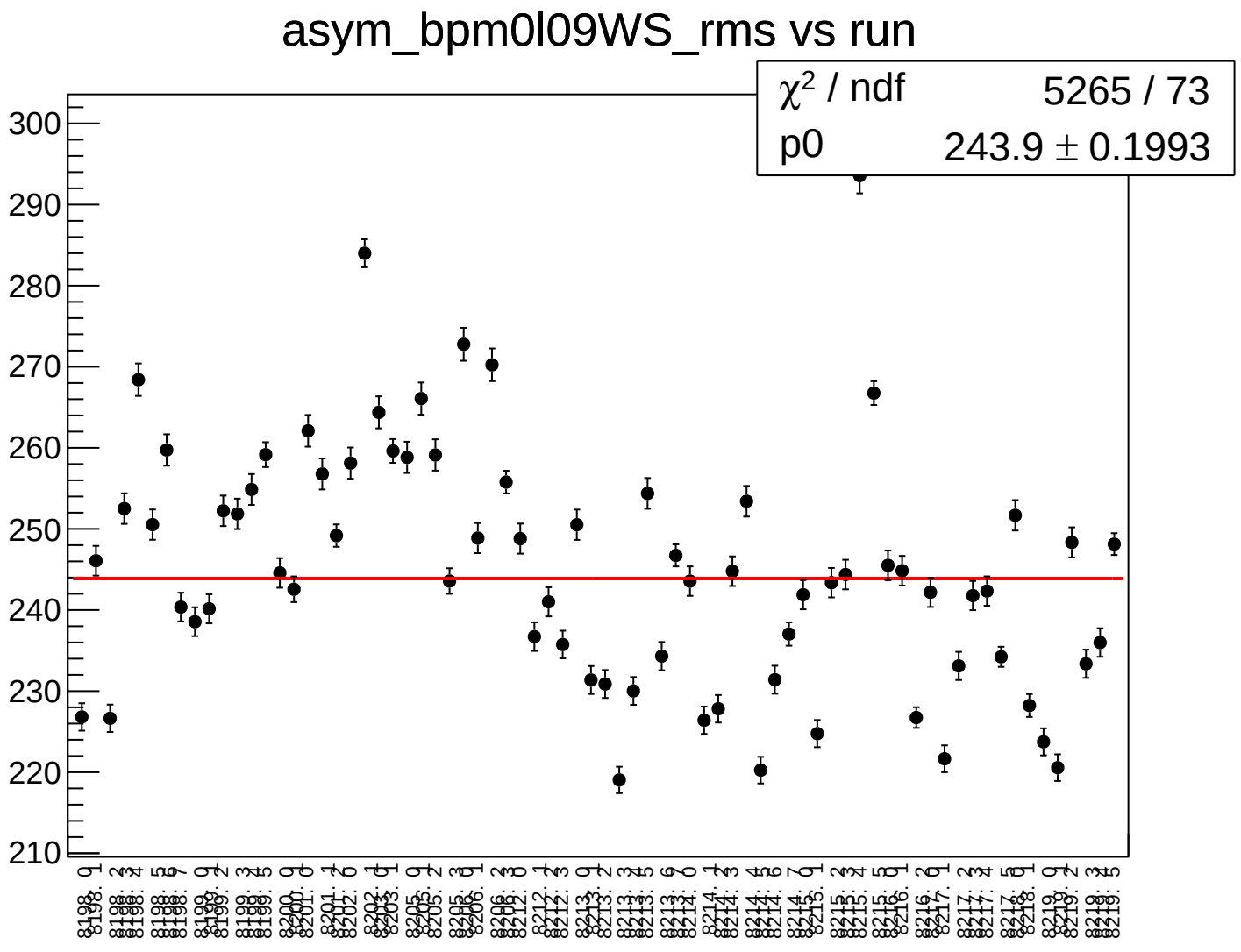

asym_bpm0l08WS_mean vs run
χ² / ndf 844.8 / 73
p0 3218 ± 268.9
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 74
Mean −7318
Std Dev 7356
6
4
2
0
−2
−4
−6
−8

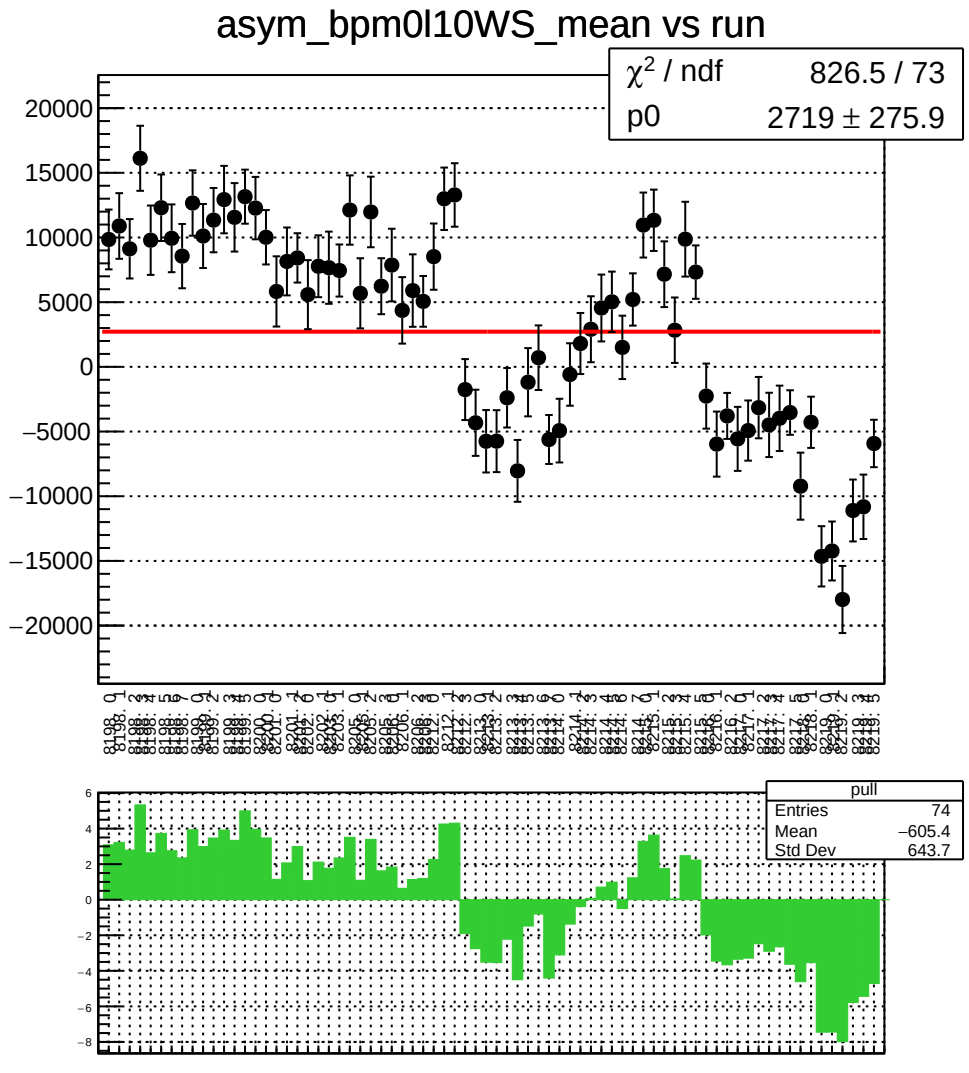

pull1D
Entries 74
Mean 0.1257
Std Dev 3.247
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

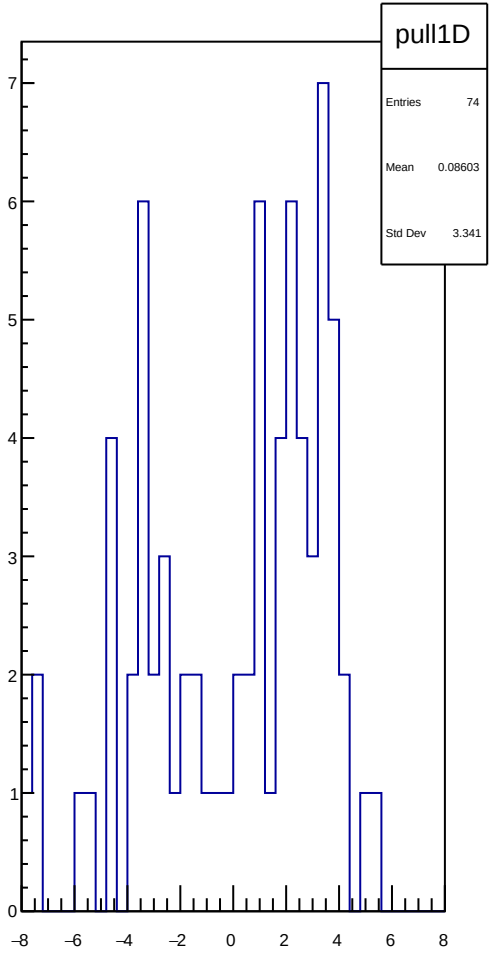

asym_bpm0l08WS_rms vs run
χ² / ndf 3626 / 73
p0 232.9 ± 0.1902
270
260
250
240
230
220
210
200

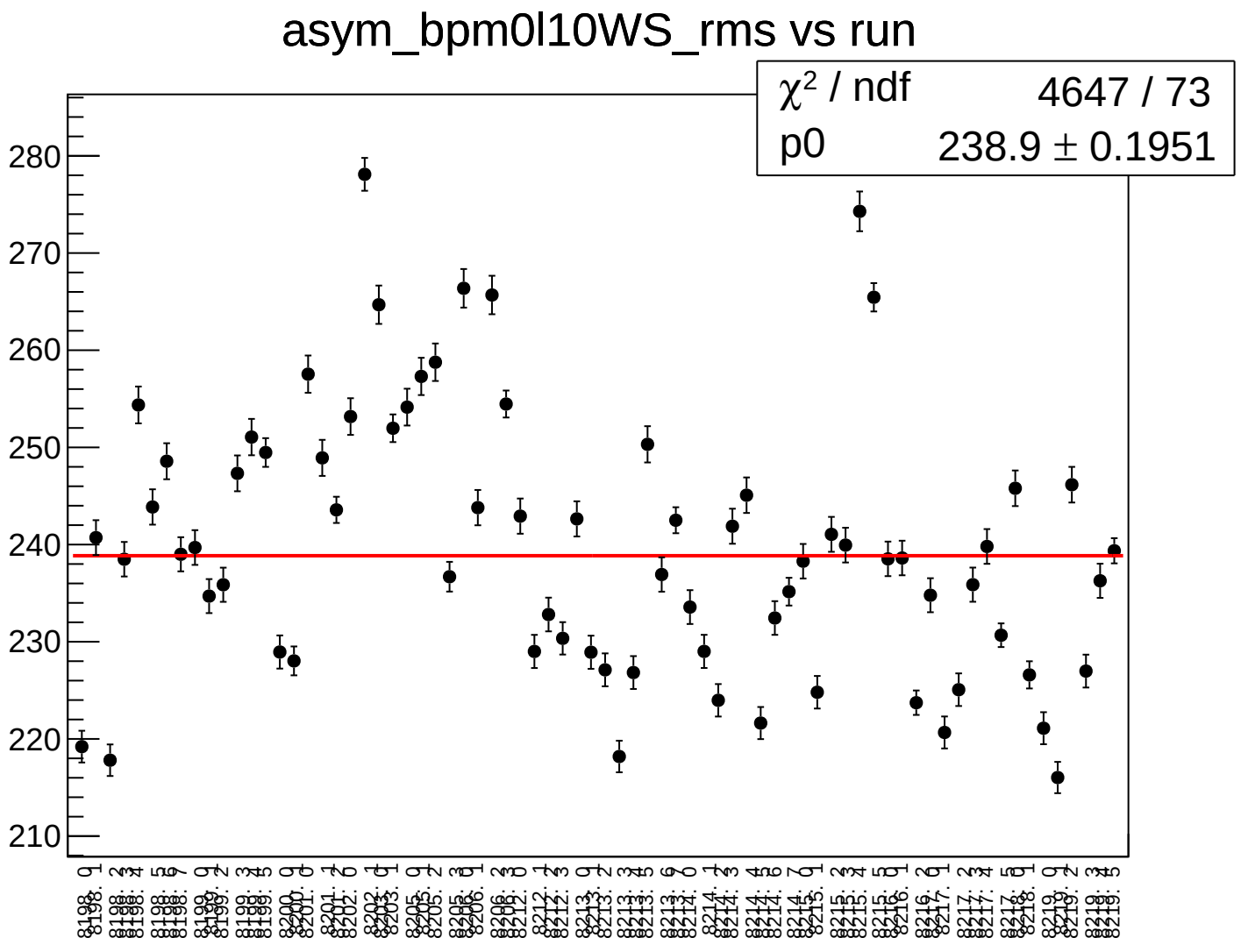

asym_bpm0l09WS_mean vs run
χ² / ndf 742.4 / 73
p0 2837 ± 281.8
pull
Entries 74
Mean −497.8
Std Dev 535.7

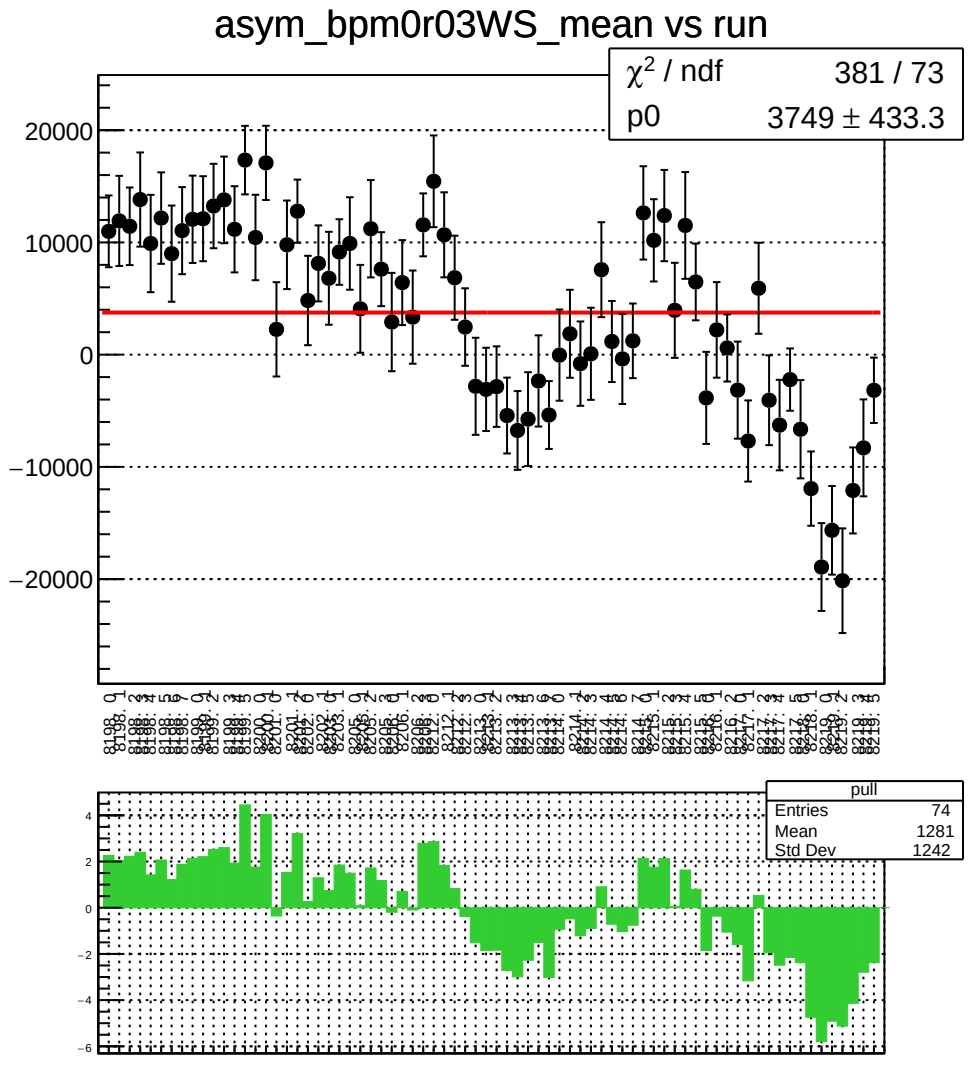

pull1D
Entries 74
Mean 0.2079
Std Dev 3.041

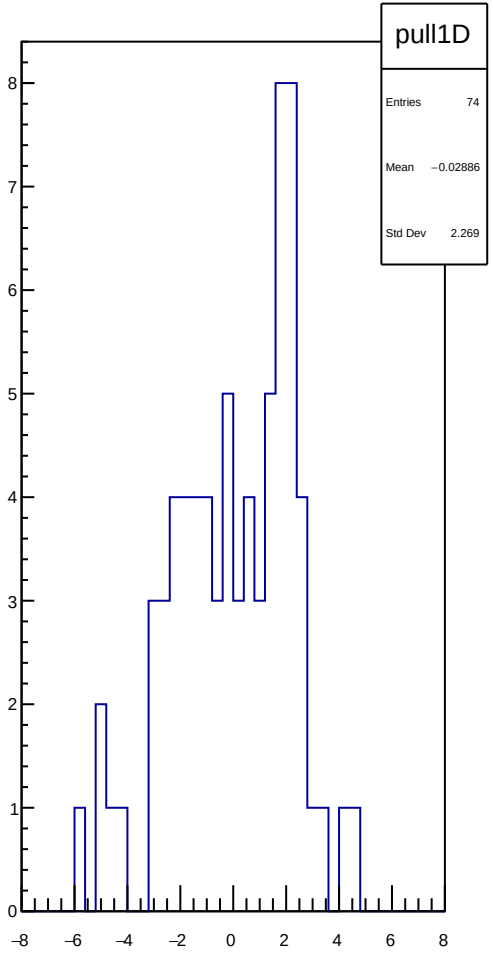

asym_bpm0l09WS_rms vs run
χ² / ndf 5265 / 73
p0 243.9 ± 0.1993
300
290
280
270
260
250
240
230
220
210

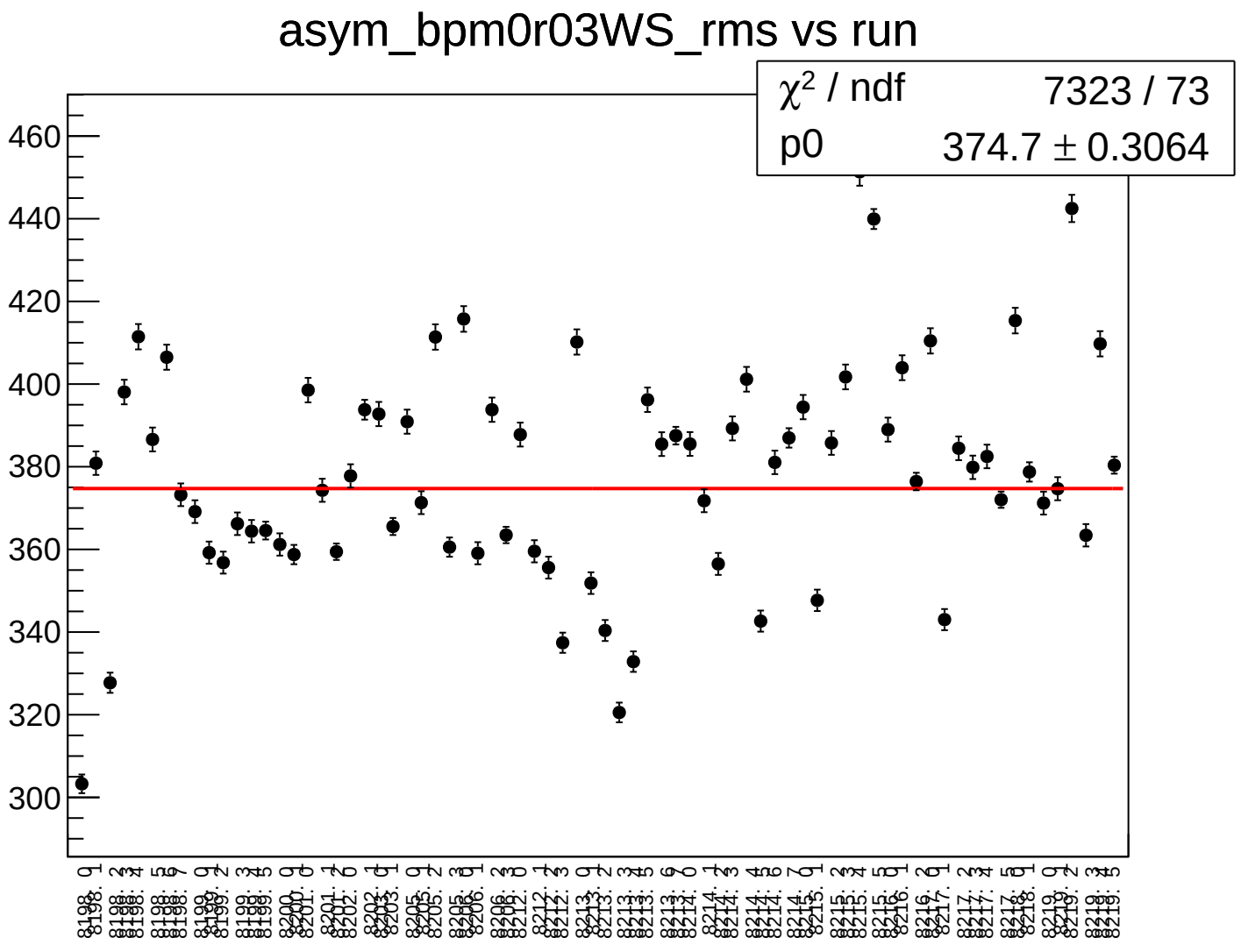

asym_bpm0l10WS_mean vs run
χ² / ndf 826.5 / 73
p0 2719 ± 275.9
pull
Entries 74
Mean −605.4
Std Dev 643.7

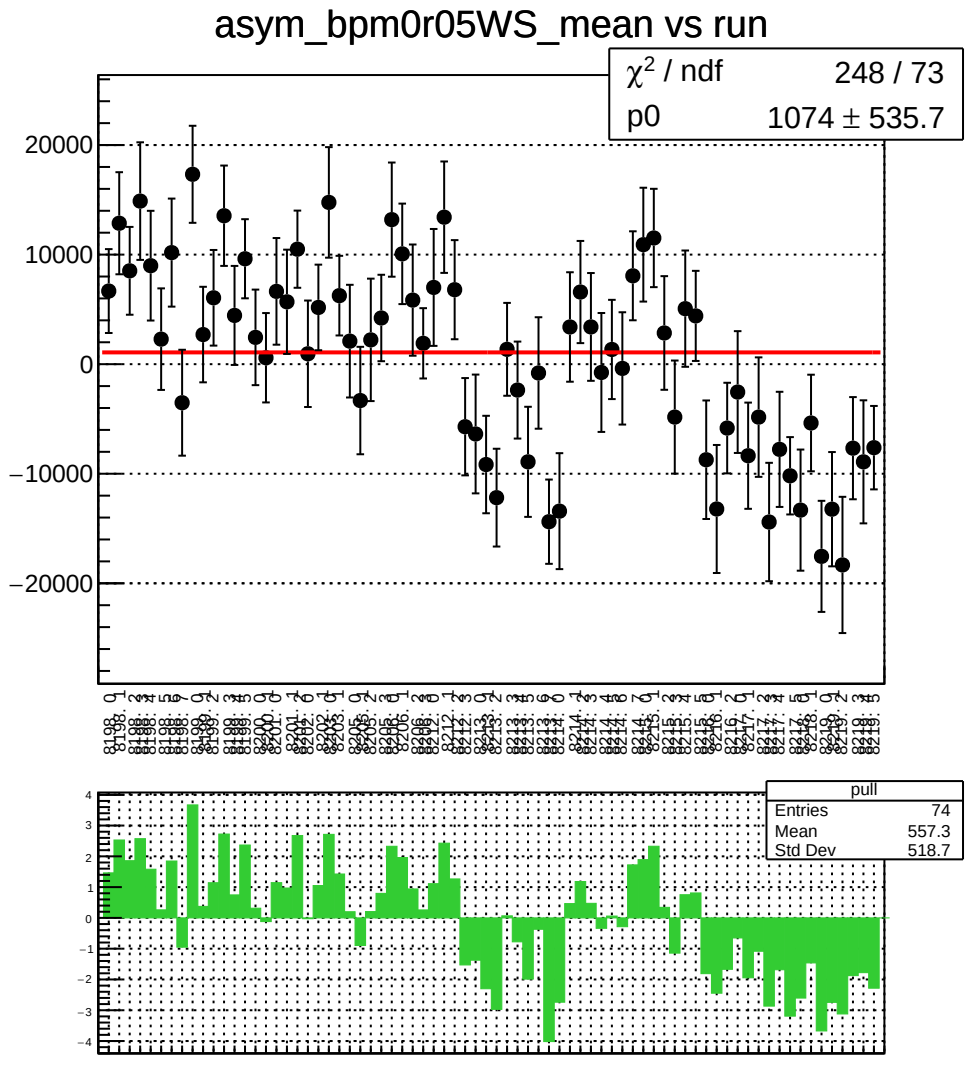

pull1D
Entries 74
Mean 0.08603
Std Dev 3.341

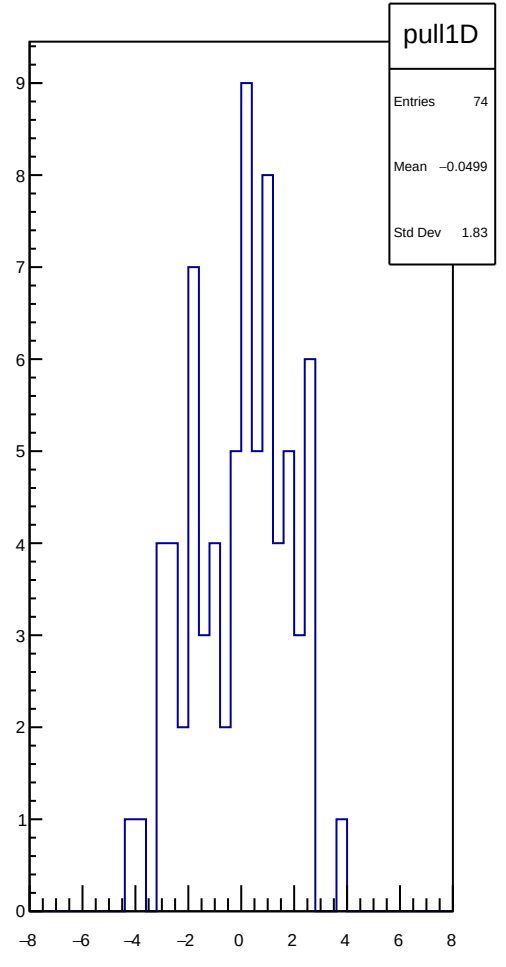

asym_bpm0l10WS_rms vs run
χ² / ndf 4647 / 73
p0 238.9 ± 0.1951
280
270
260
250
240
230
220
210

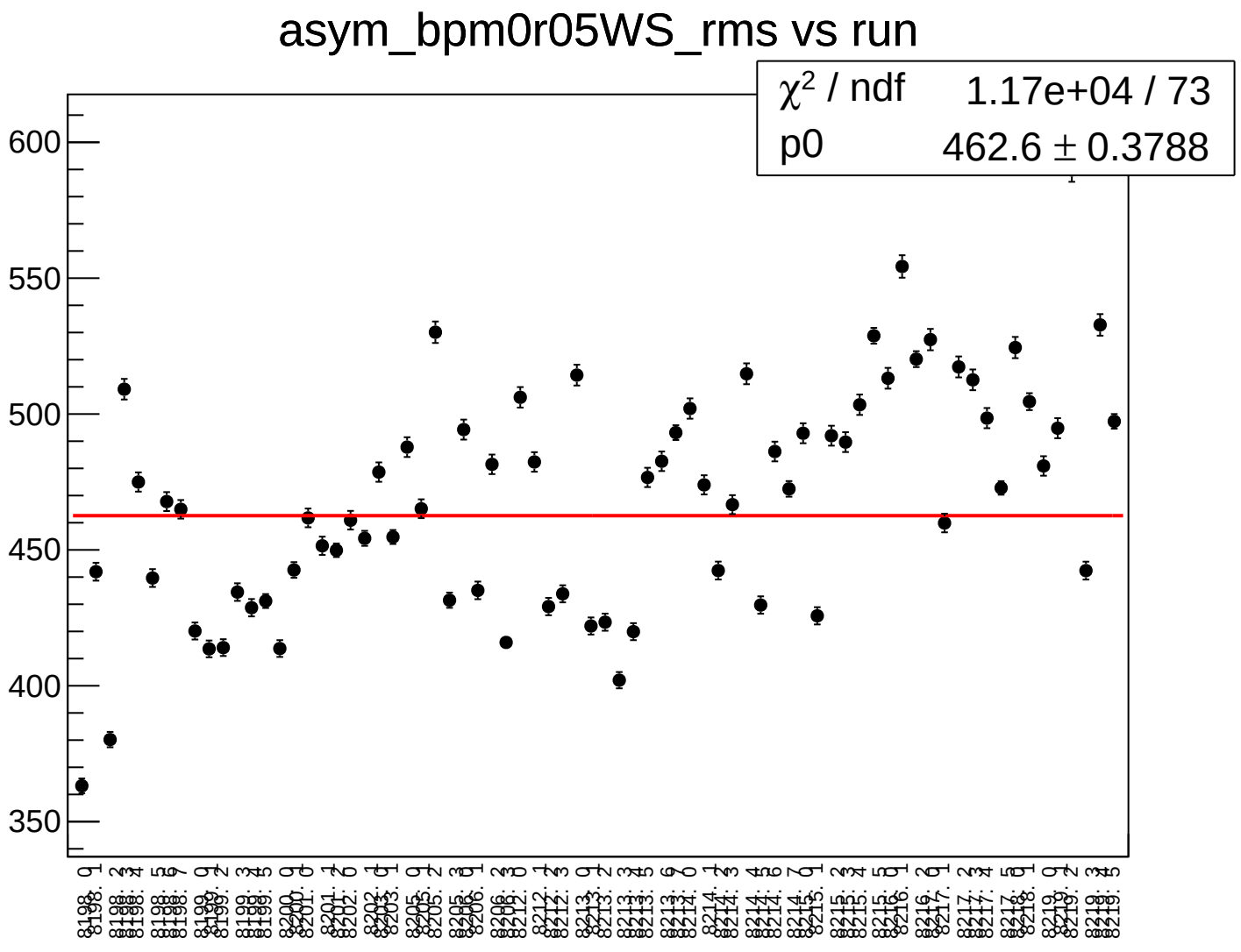

asym_bpm0r03WS_mean vs run
χ² / ndf 381 / 73
p0 3749 ± 433.3
20000
10000
0
−10000
−20000
pull
Entries 74
Mean 1281
Std Dev 1242
4
2
0
−2
−4
−6

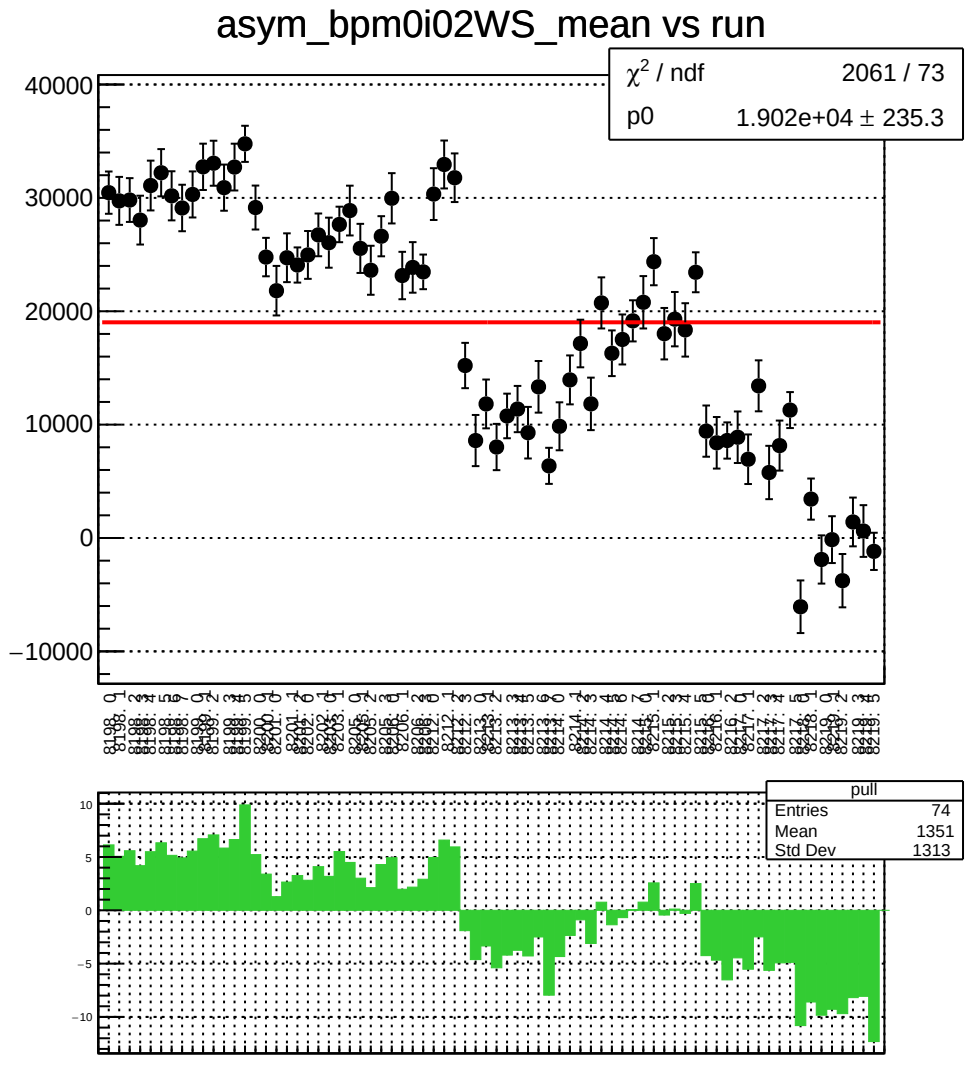

pull1D
Entries 74
Mean −0.02886
Std Dev 2.269
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

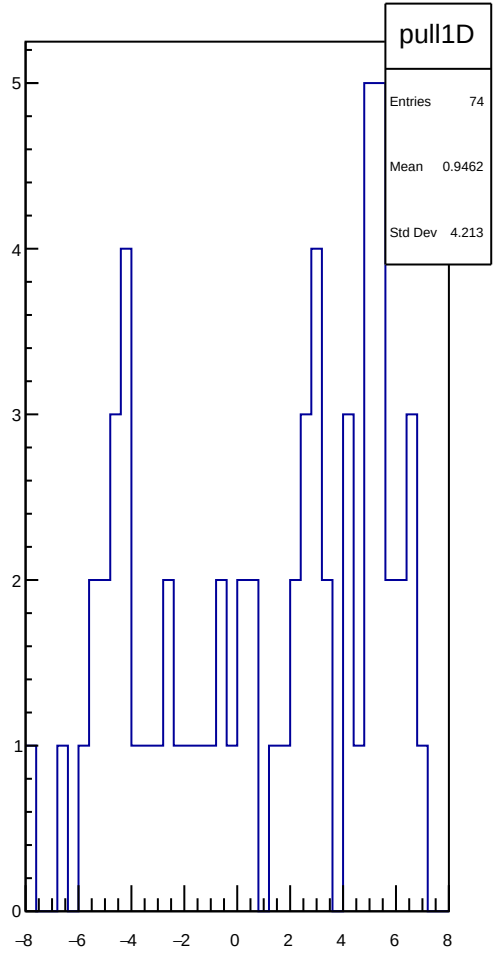

asym_bpm0r03WS_rms vs run
χ² / ndf 7323 / 73
p0 374.7 ± 0.3064
460
440
420
400
380
360
340
320
300

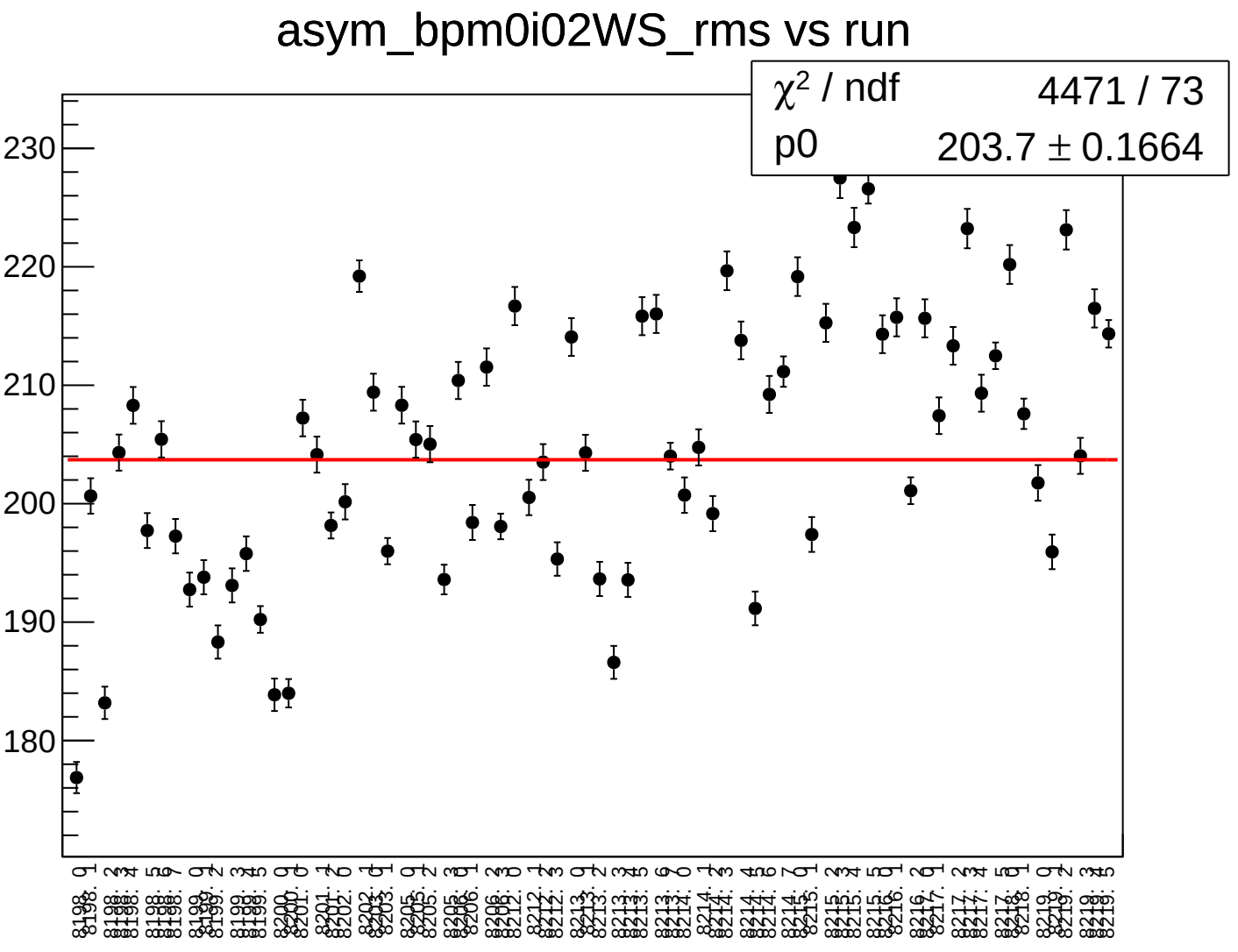

asym_bpm0r05WS_mean vs run
χ² / ndf 248 / 73
p0 1074 ± 535.7
20000
10000
0
−10000
−20000
pull
Entries 74
Mean 557.3
Std Dev 518.7
4
3
2
1
0
−1
−2
−3
−4

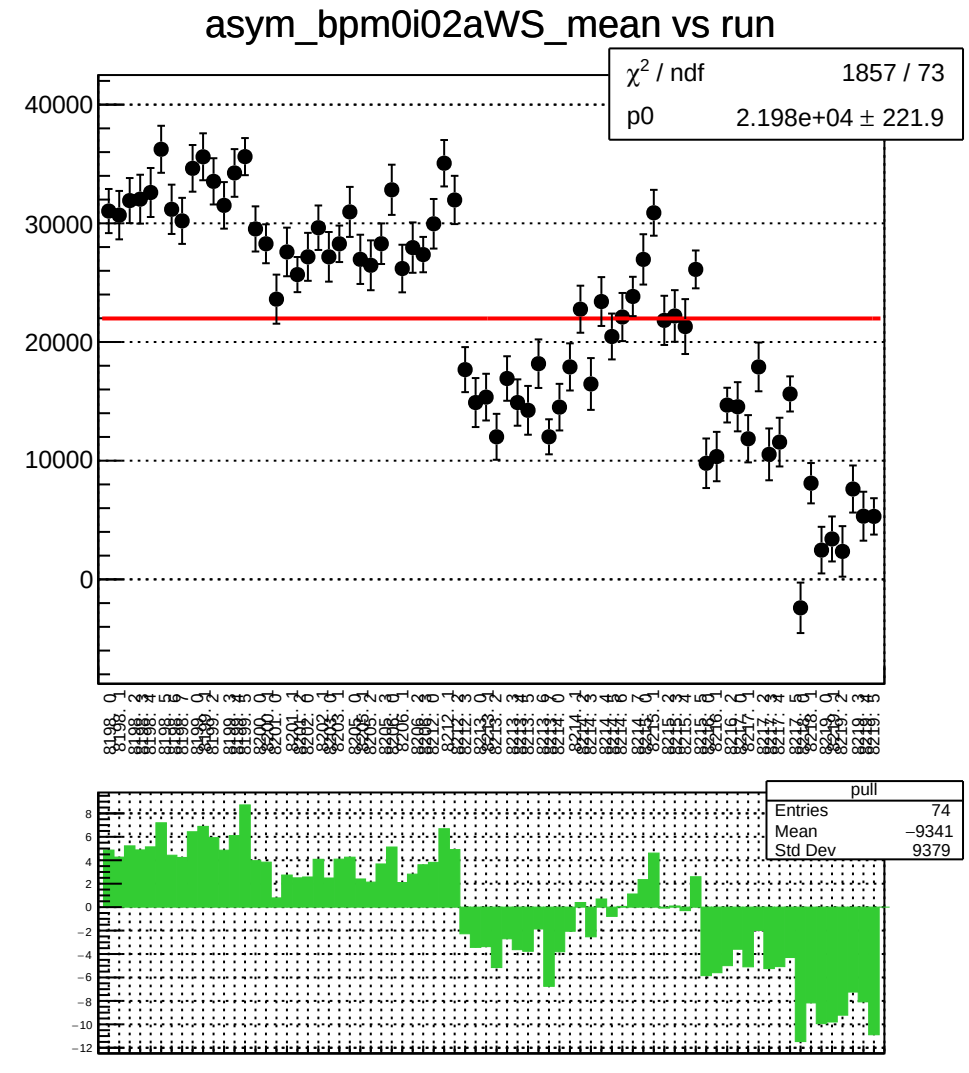

pull1D
Entries 74
Mean −0.0499
Std Dev 1.83
9
8
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

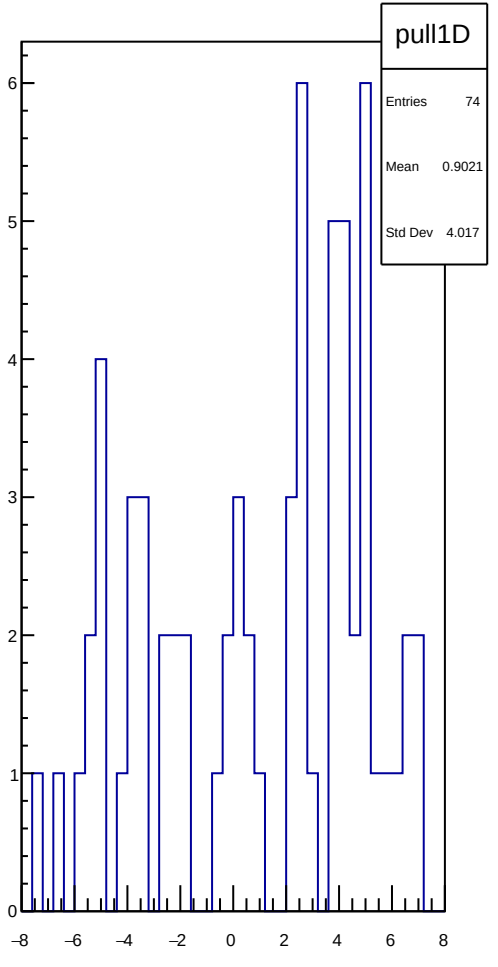

asym_bpm0r05WS_rms vs run
χ^2 / ndf 1.17e+04 / 73
p0 462.6 ± 0.3788
600
550
500
450
400
350

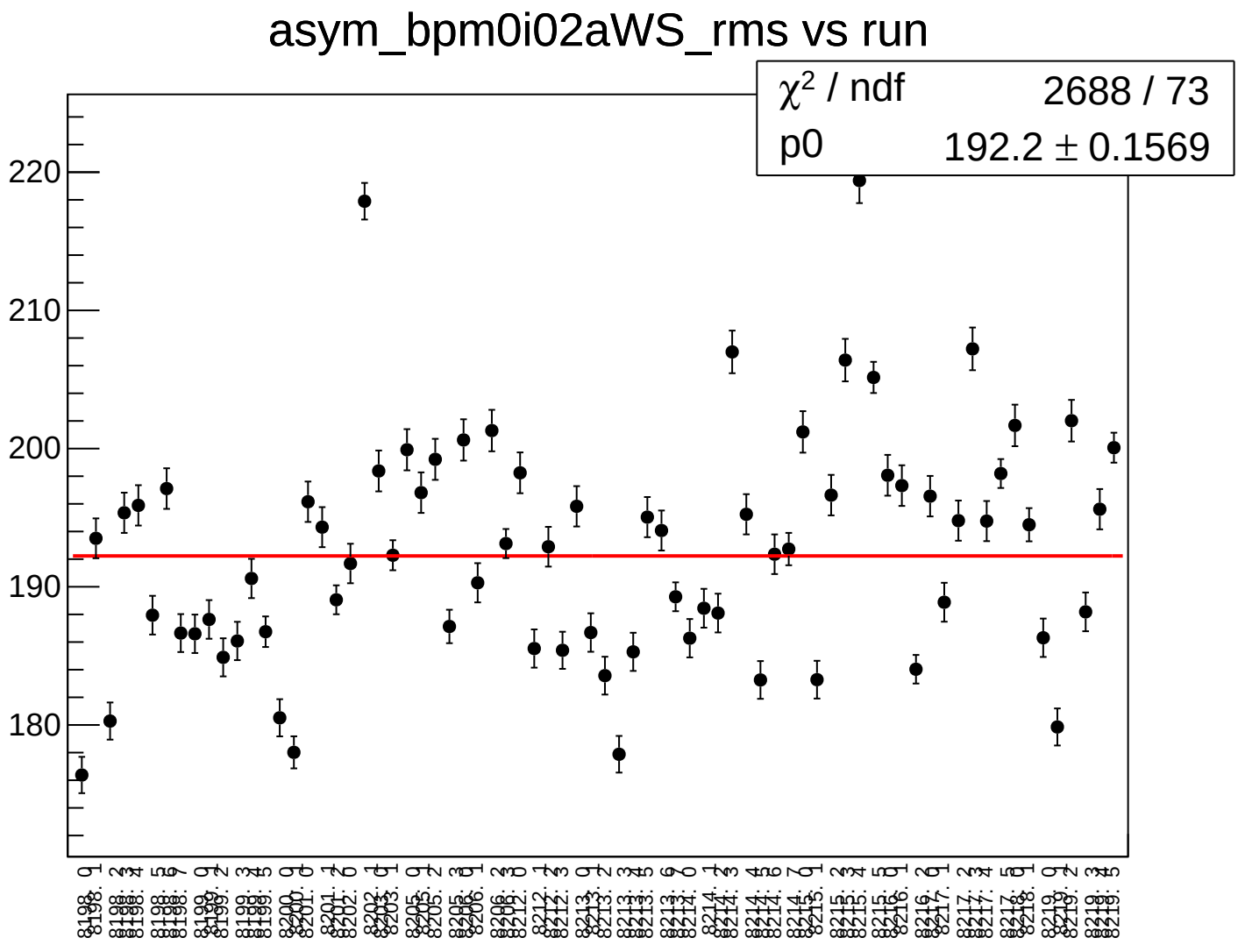

asym_bpm0i02WS_mean vs run
χ² / ndf 2061 / 73
p0 1.902e+04 ± 235.3
40000
30000
20000
10000
0
−10000
pull
Entries 74
Mean 1351
Std Dev 1313
10
5
0
−5
−10

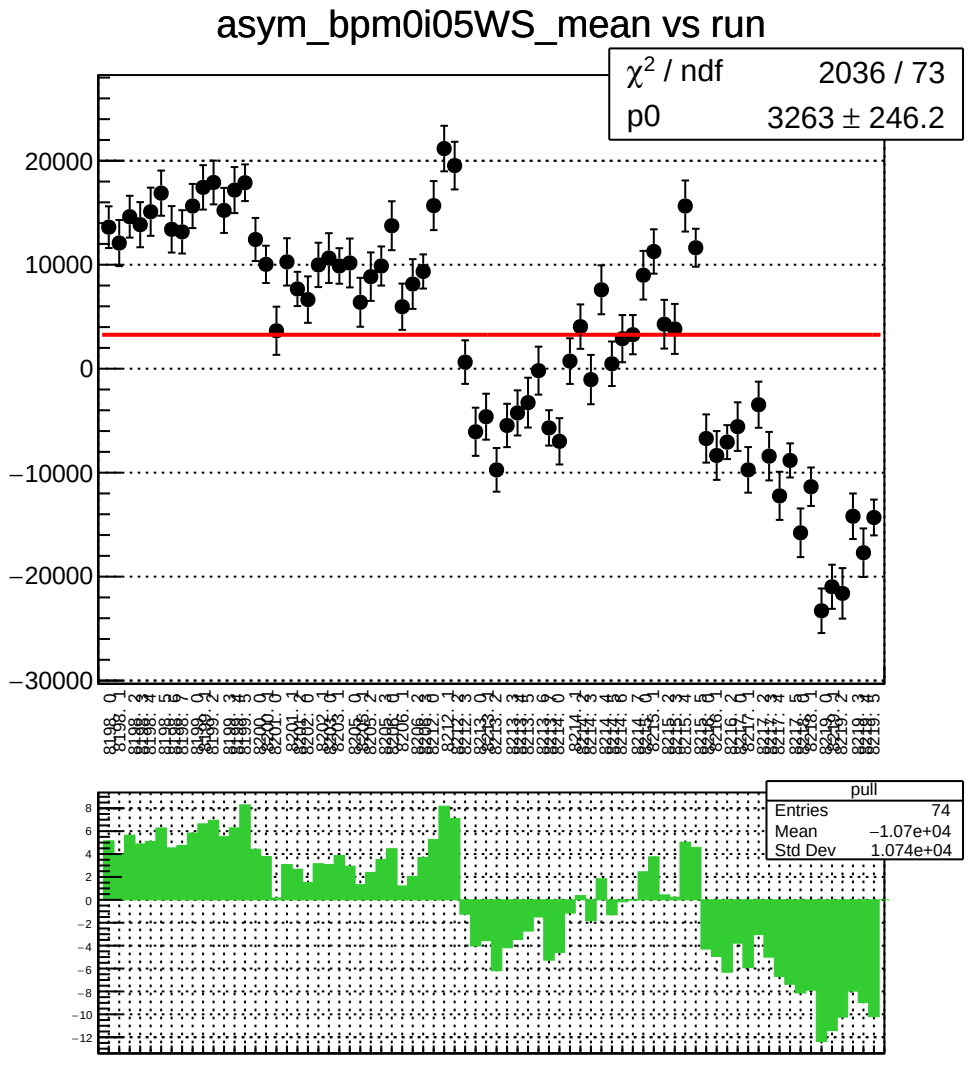

pull1D
Entries 74
Mean 0.9462
Std Dev 4.213
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

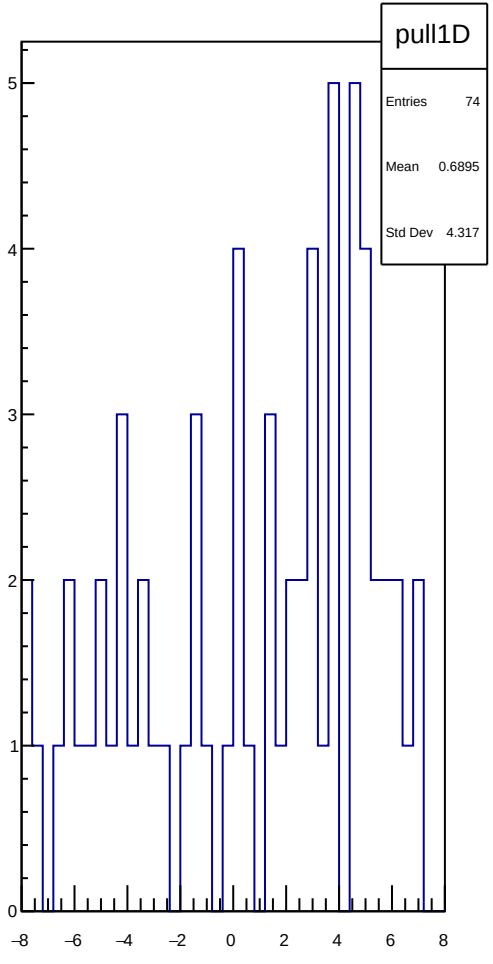

asym_bpm0i02WS_rms vs run
χ² / ndf 4471 / 73
p0 203.7 ± 0.1664
230
220
210
200
190
180

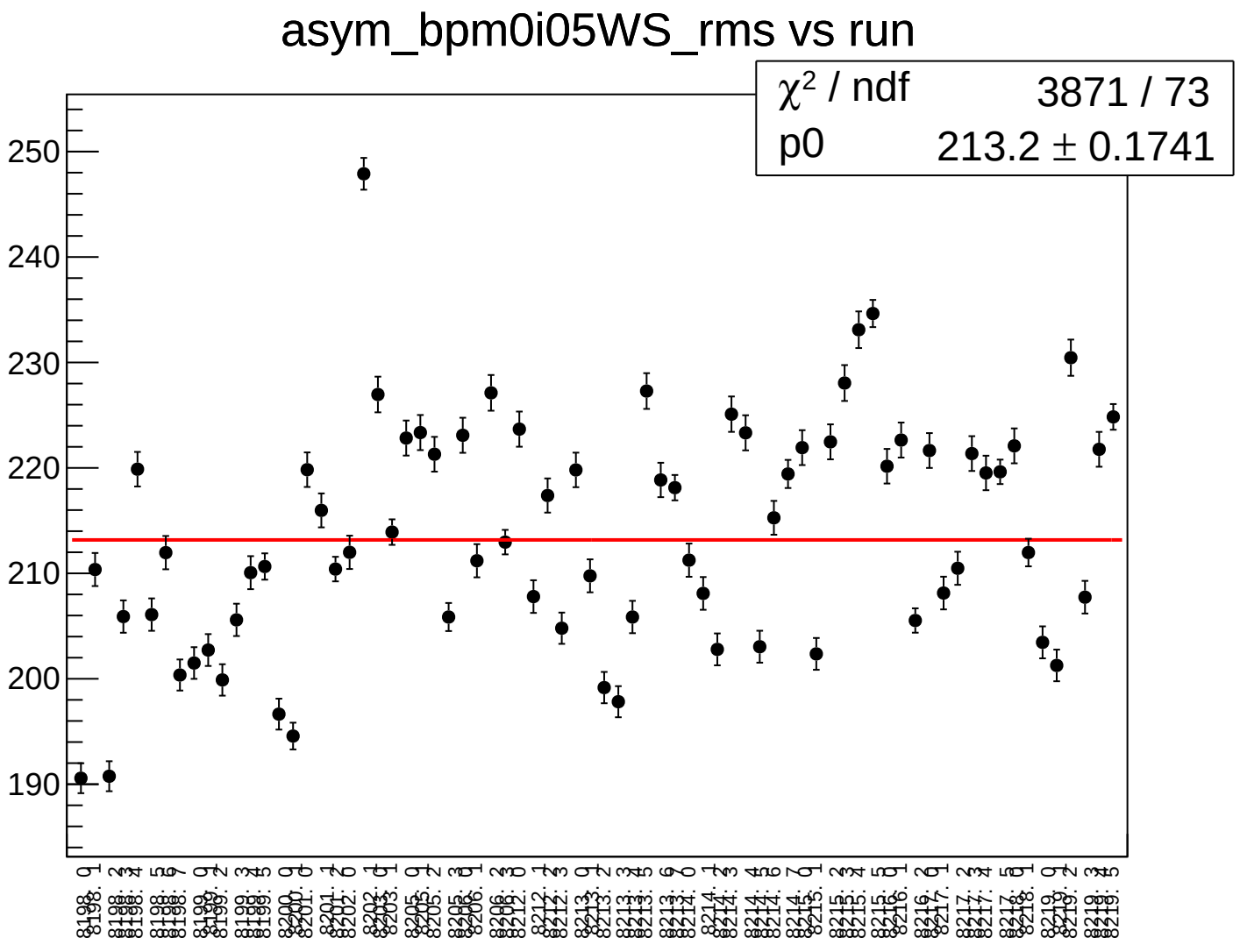

asym_bpm0i02aWS_mean vs run
χ² / ndf 1857 / 73
p0 2.198e+04 ± 221.9
40000
30000
20000
10000
0
pull
Entries 74
Mean −9341
Std Dev 9379
8
6
4
2
0
−2
−4
−6
−8
−10
−12

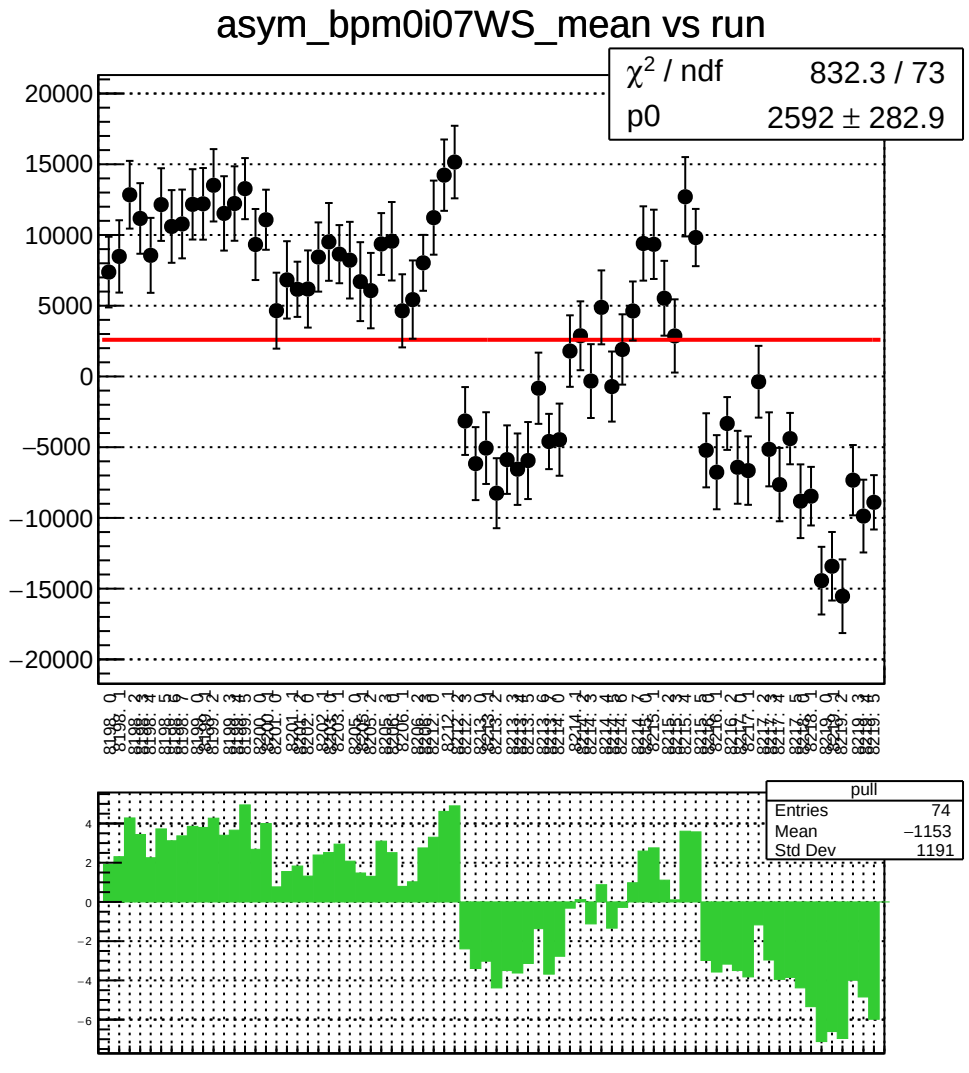

pull1D
Entries 74
Mean 0.9021
Std Dev 4.017
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

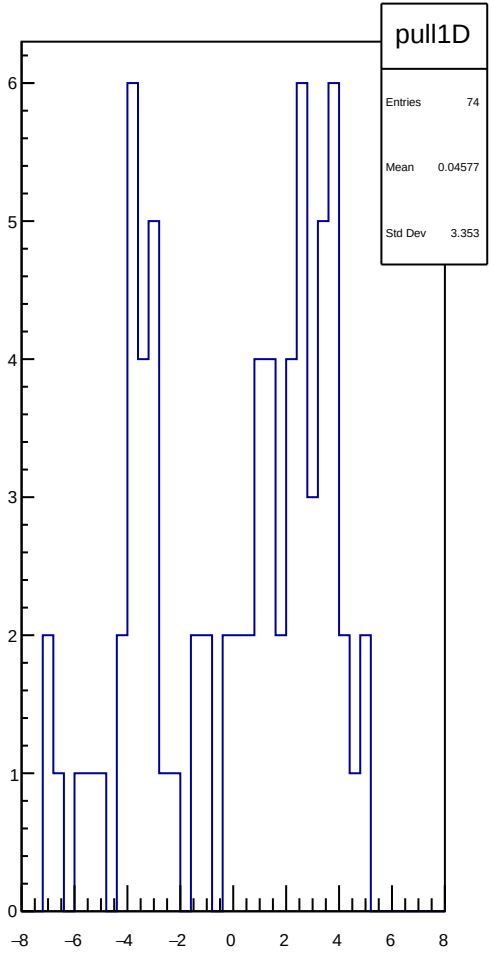

asym_bpm0i02aWS_rms vs run
χ² / ndf 2688 / 73
p0 192.2 ± 0.1569
220
210
200
190
180

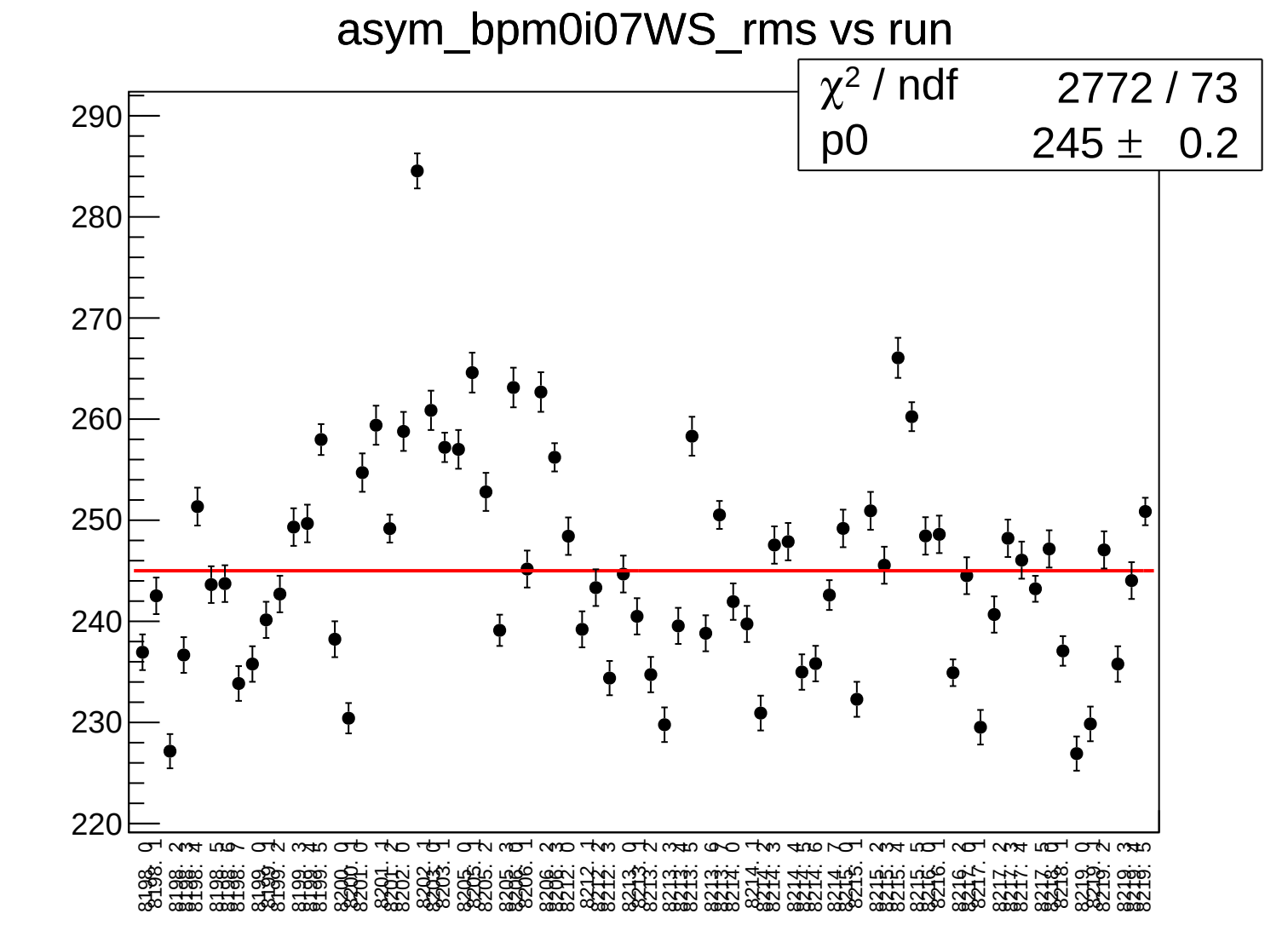

asym_bpm0i05WS_mean vs run
χ² / ndf 2036 / 73
p0 3263 ± 246.2
pull
Entries 74
Mean −1.07e+04
Std Dev 1.074e+04

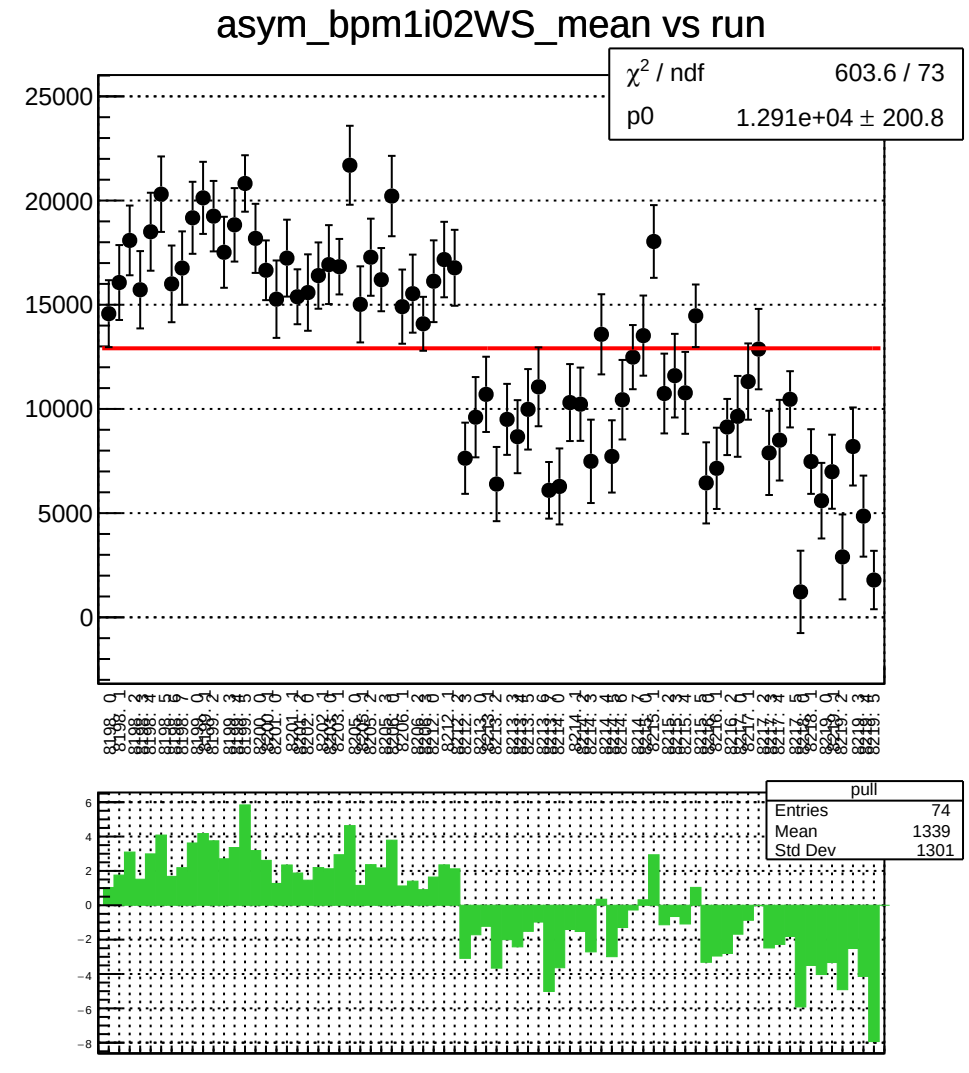

pull1D
Entries 74
Mean 0.6895
Std Dev 4.317

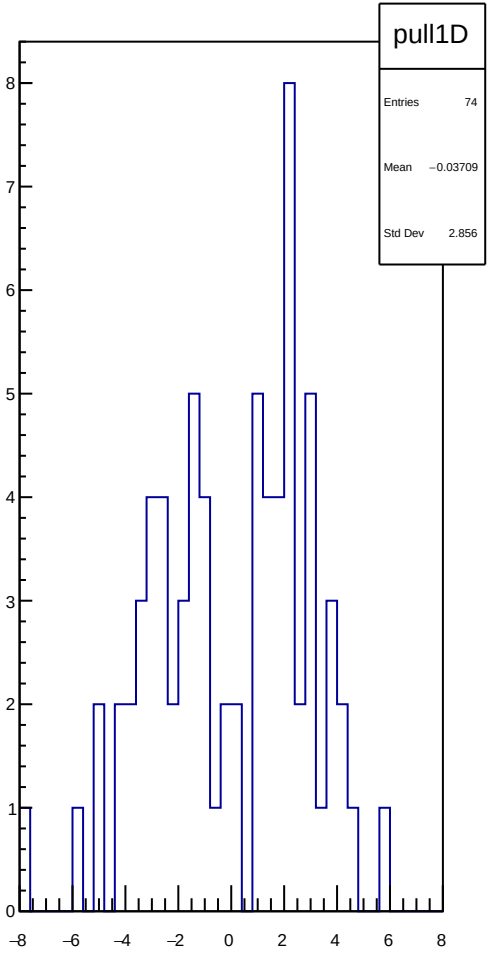

asym_bpm0i05WS_rms vs run
χ² / ndf 3871 / 73
p0 213.2 ± 0.1741
250
240
230
220
210
200
190

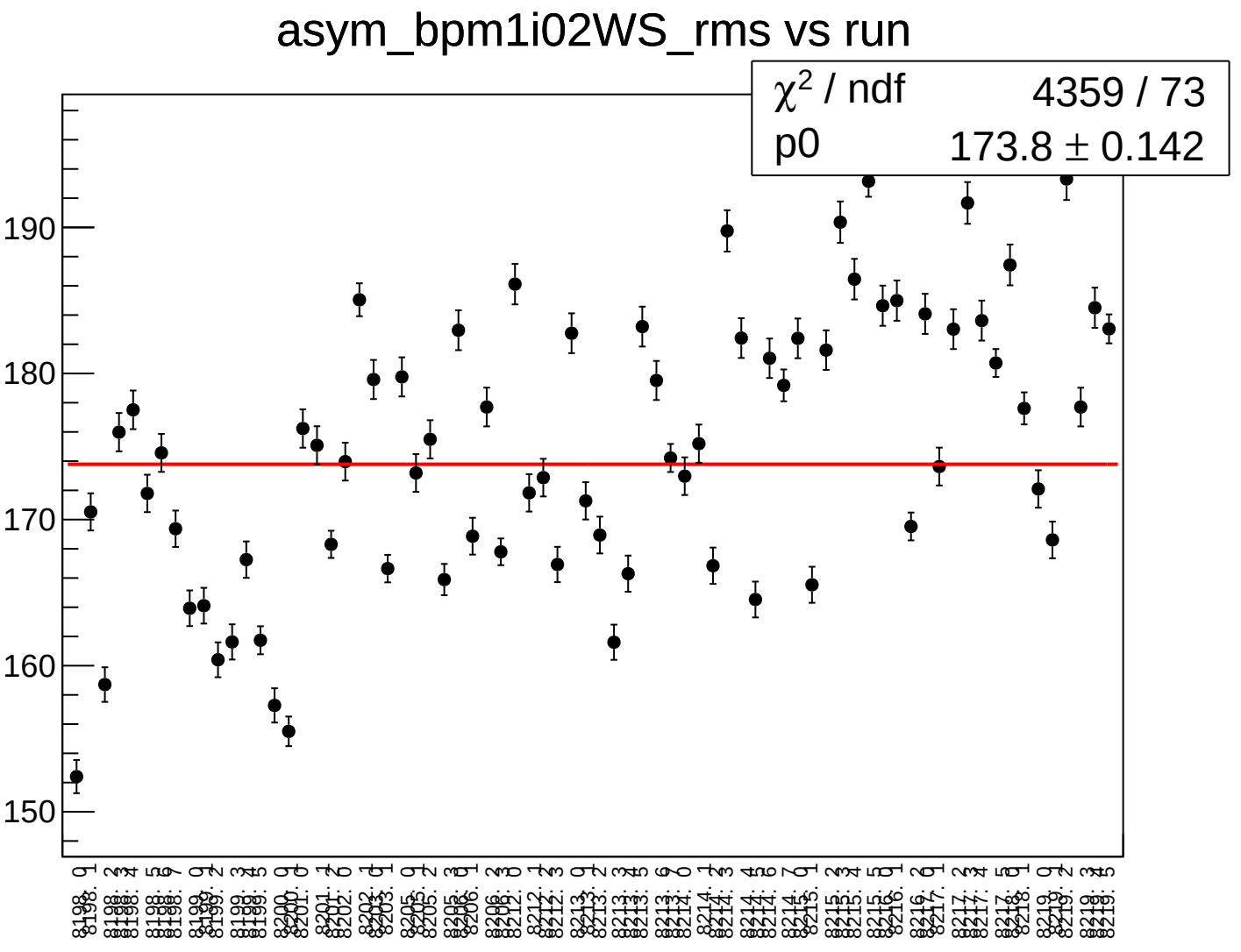

asym_bpm0i07WS_mean vs run
χ² / ndf 832.3 / 73
p0 2592 ± 282.9
pull
Entries 74
Mean −1153
Std Dev 1191

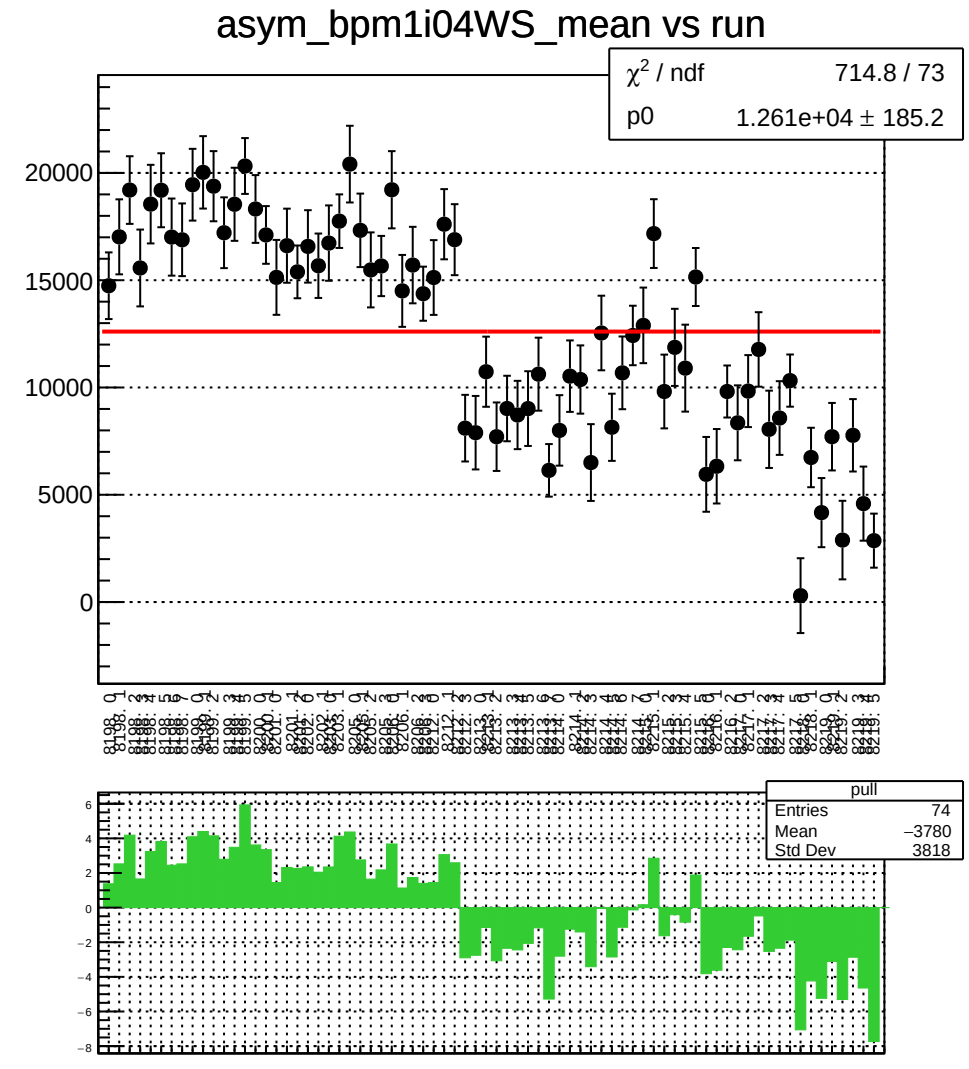

pull1D
Entries 74
Mean 0.04577
Std Dev 3.353

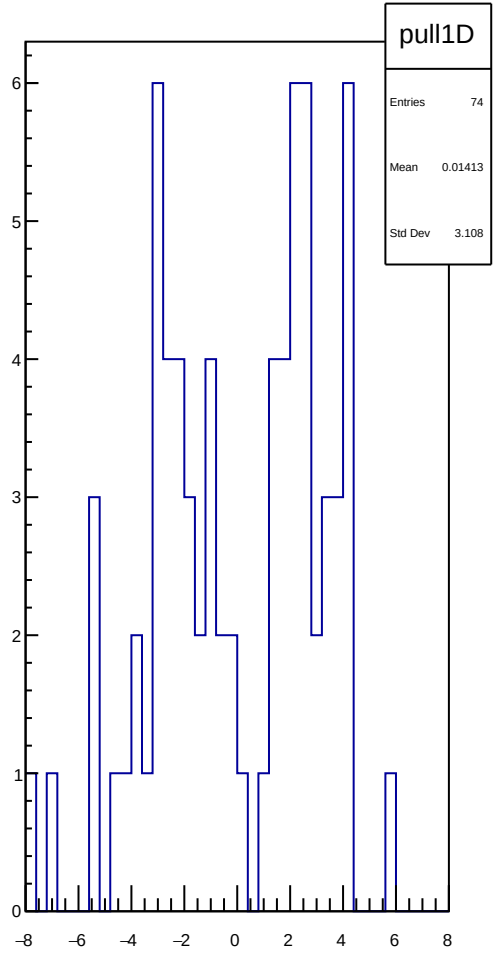

asym_bpm0i07WS_rms vs run
χ² / ndf 2772 / 73
p0 245 ± 0.2
290
280
270
260
250
240
230
220

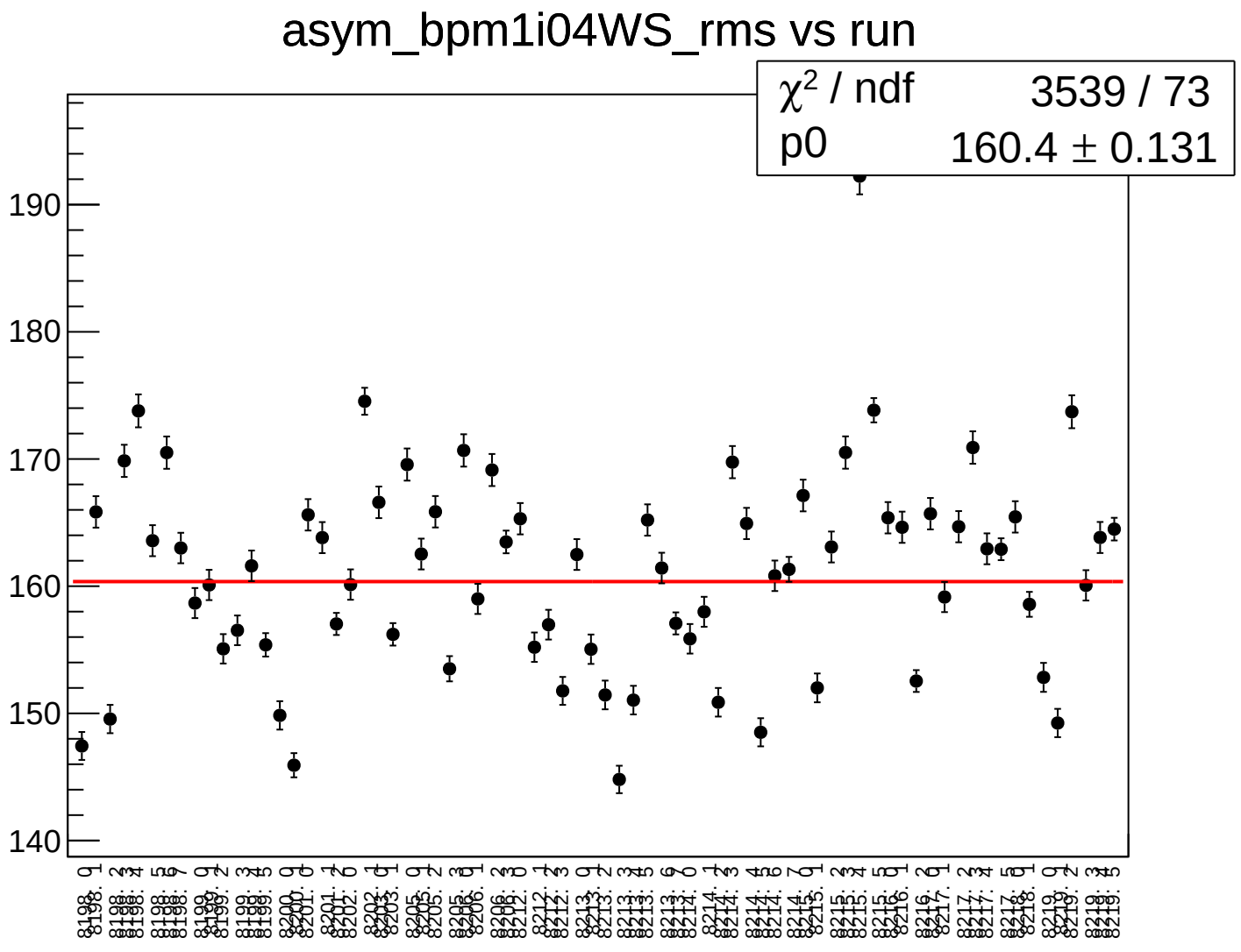

asym_bpm1i02WS_mean vs run
χ² / ndf 603.6 / 73
p0 1.291e+04 ± 200.8
pull
Entries 74
Mean 1339
Std Dev 1301

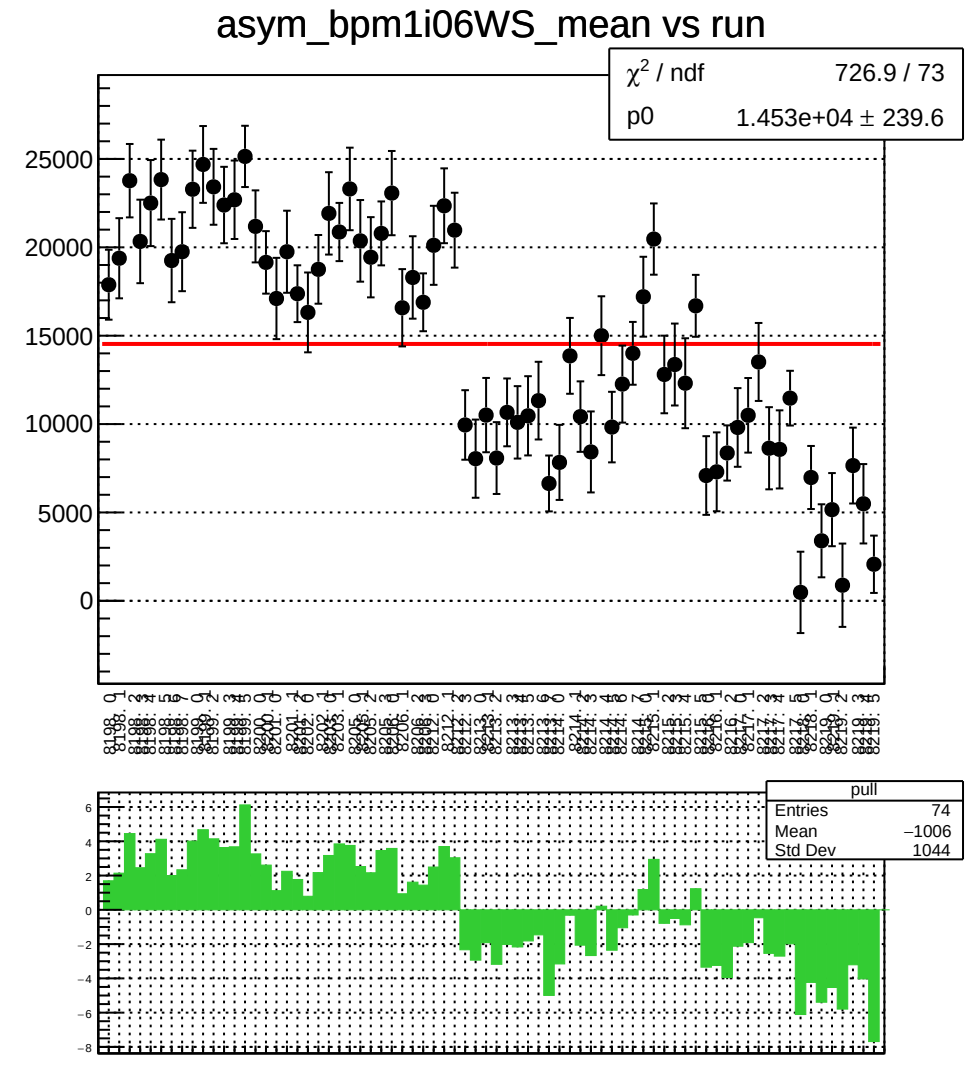

pull1D
Entries 74
Mean −0.03709
Std Dev 2.856

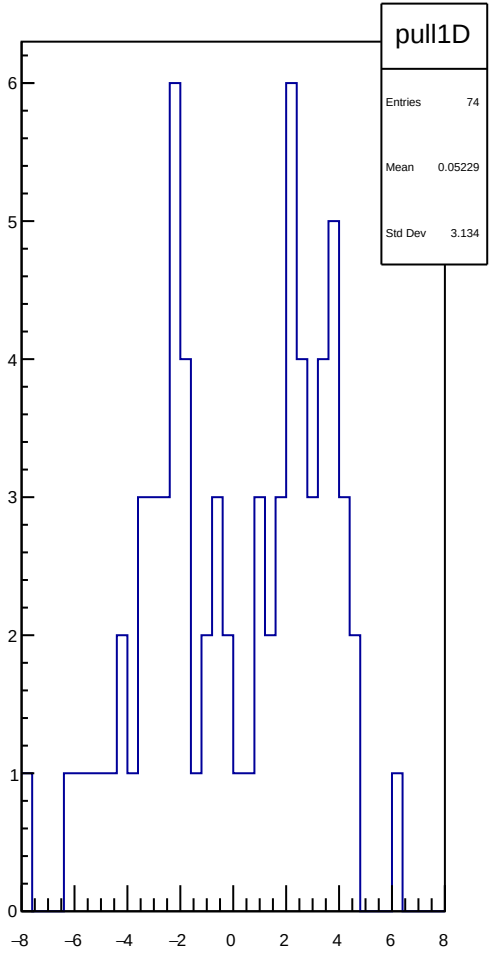

asym_bpm1i02WS_rms vs run
χ^2 / ndf 4359 / 73
p0 173.8 ± 0.142
190
180
170
160
150

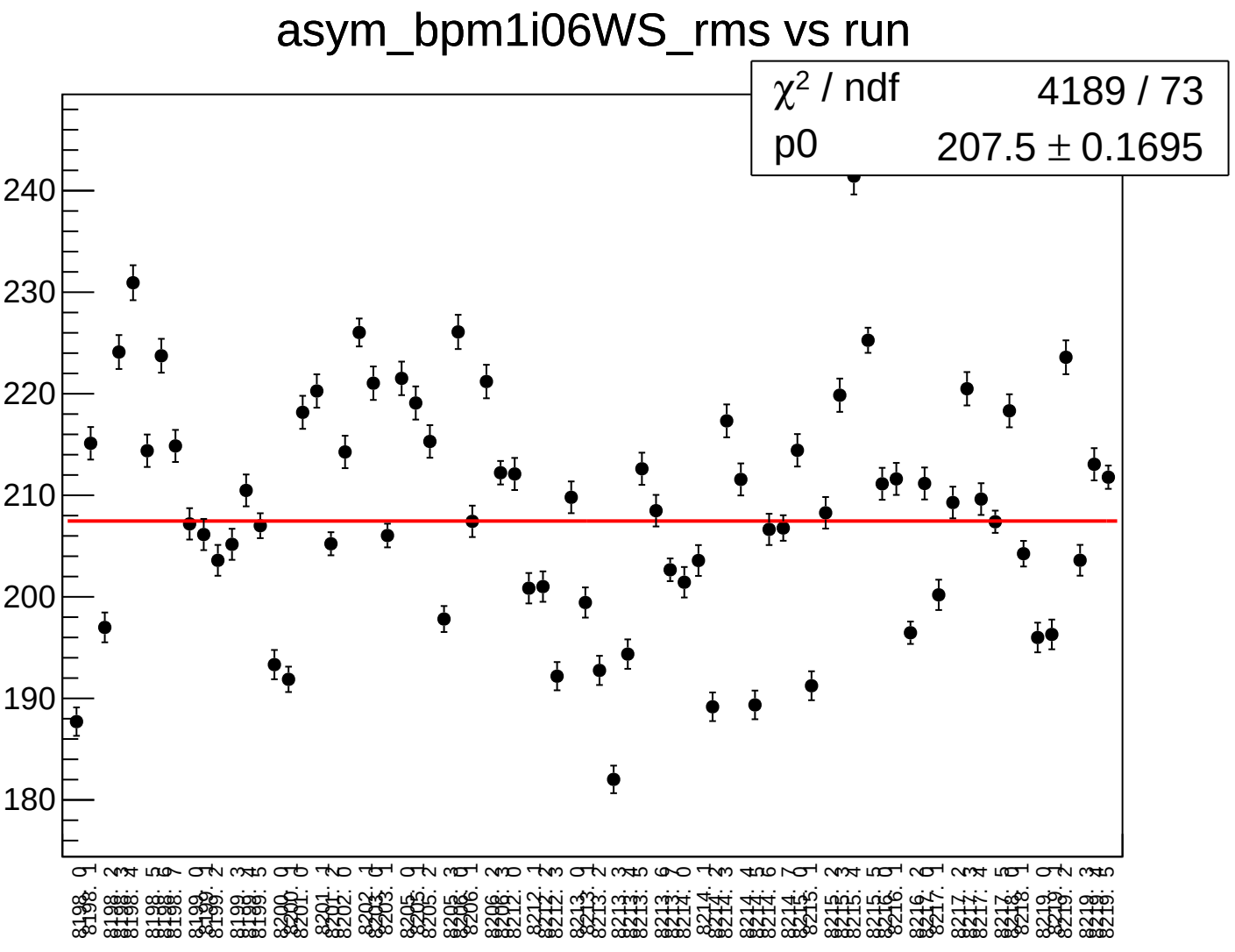

asym_bpm1i04WS_mean vs run
χ² / ndf 714.8 / 73
p0 1.261e+04 ± 185.2
20000
15000
10000
5000
0
pull
Entries 74
Mean −3780
Std Dev 3818
6
4
2
0
−2
−4
−6
−8

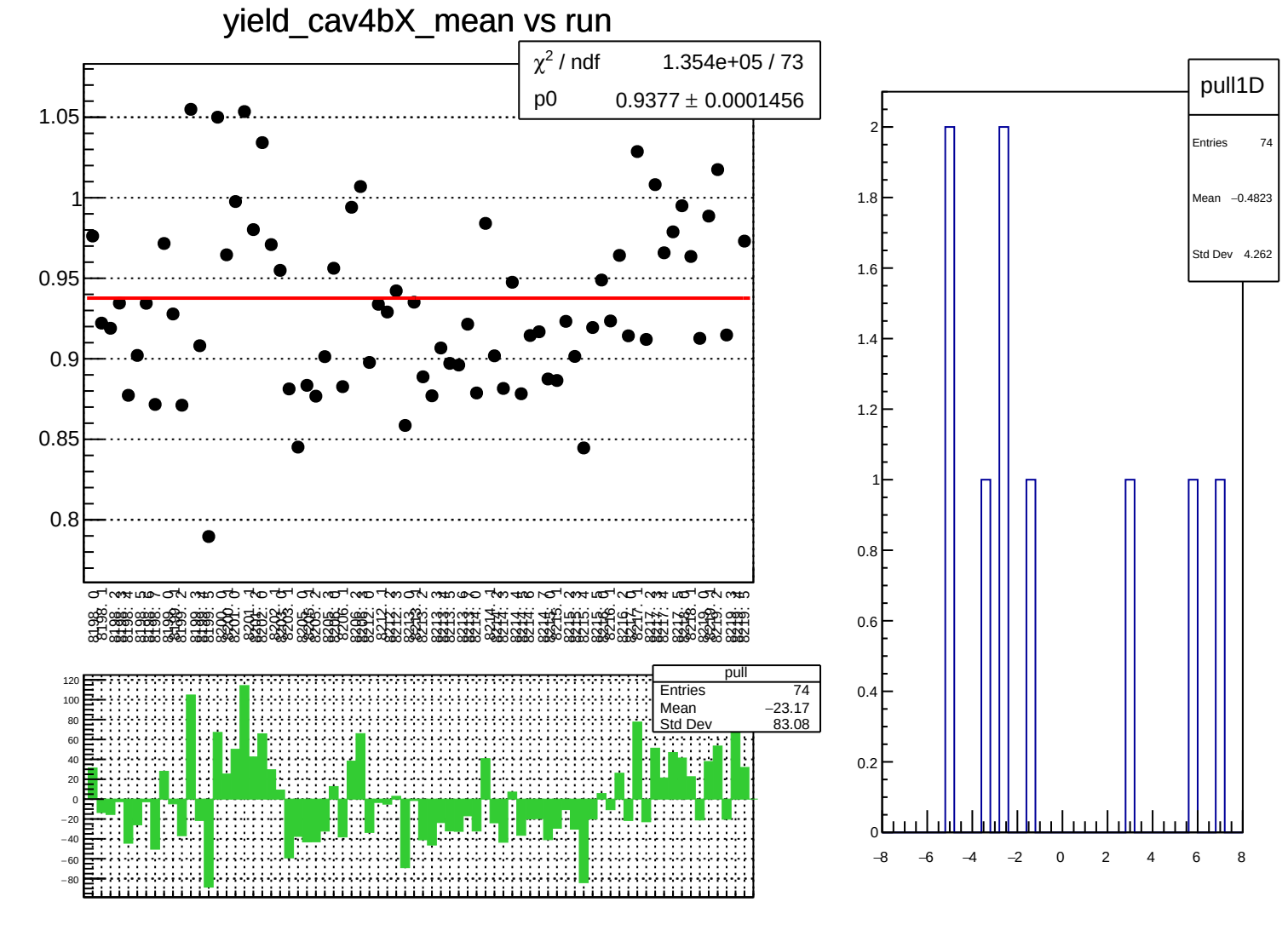

pull1D
Entries 74
Mean 0.01413
Std Dev 3.108
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

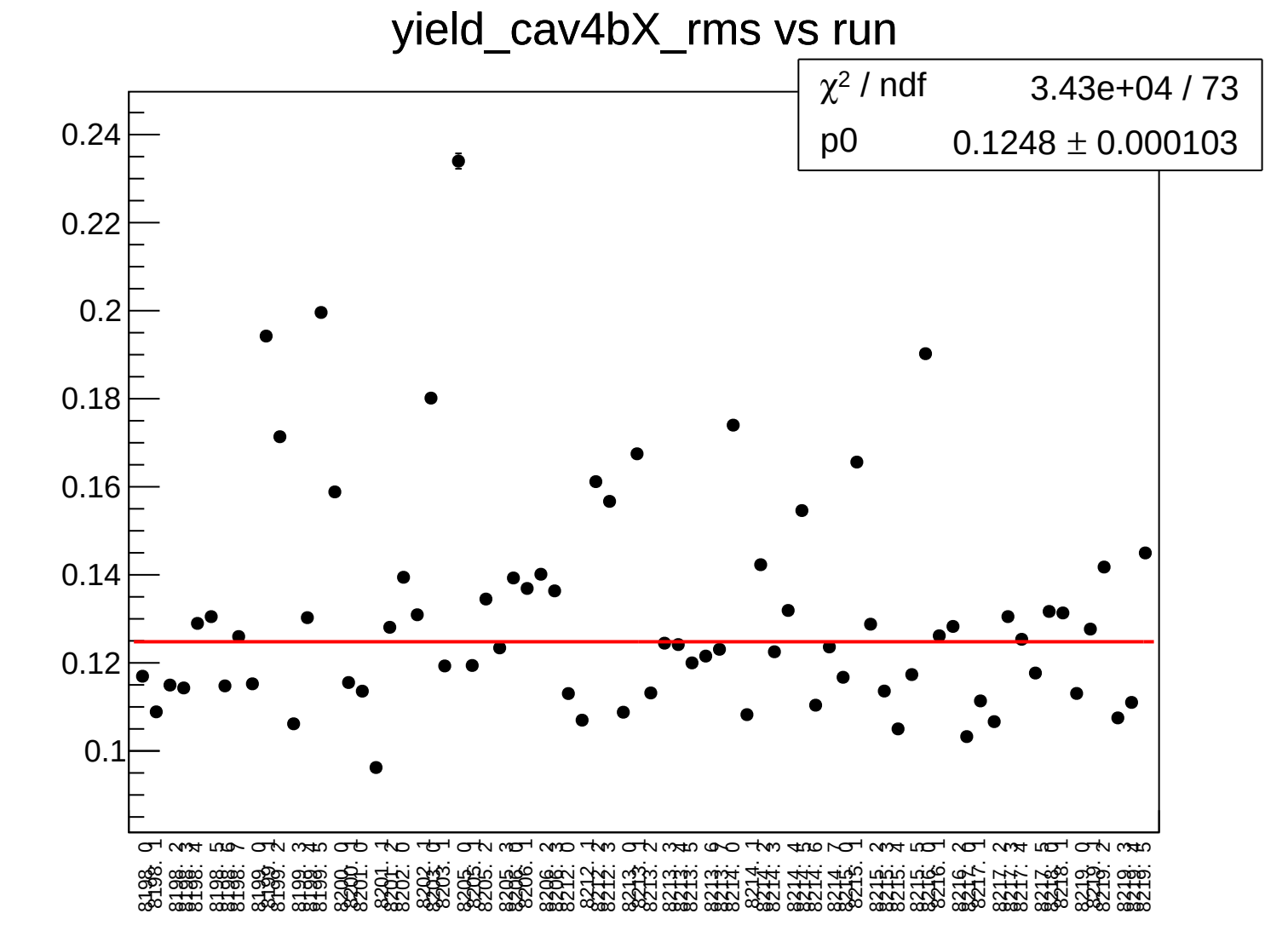

asym_bpm1i04WS_rms vs run
χ² / ndf 3539 / 73
p0 160.4 ± 0.131
190
180
170
160
150
140

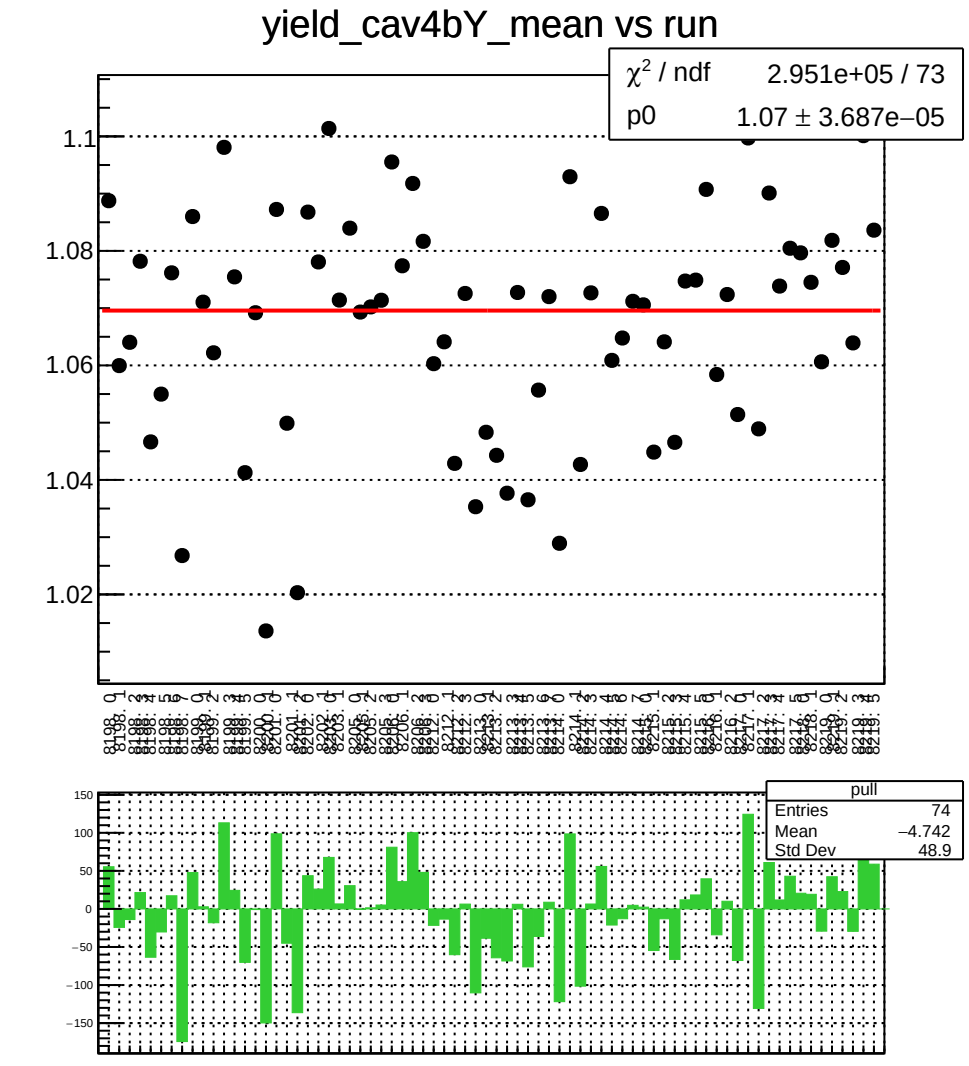

asym_bpm1i06WS_mean vs run
χ² / ndf 726.9 / 73
p0 1.453e+04 ± 239.6
pull
Entries 74
Mean −1006
Std Dev 1044

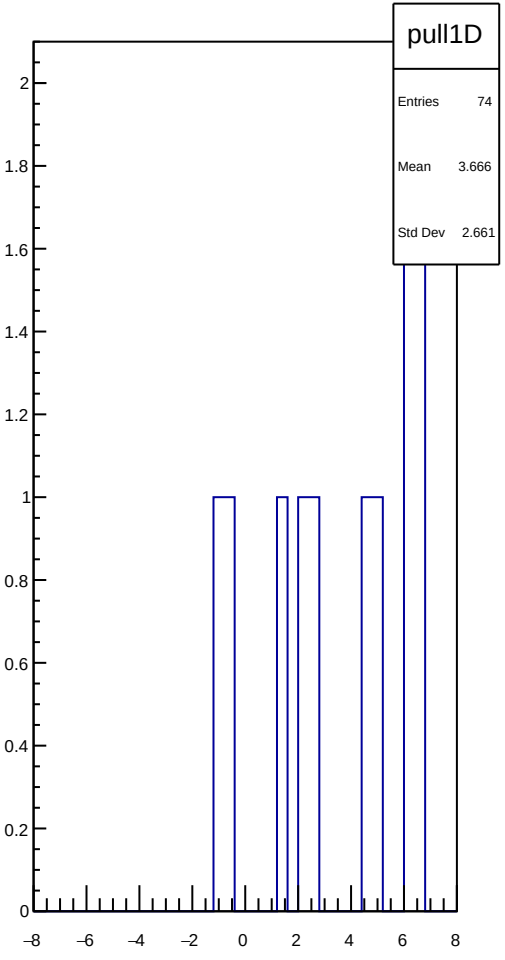

pull1D
Entries 74
Mean 0.05229
Std Dev 3.134

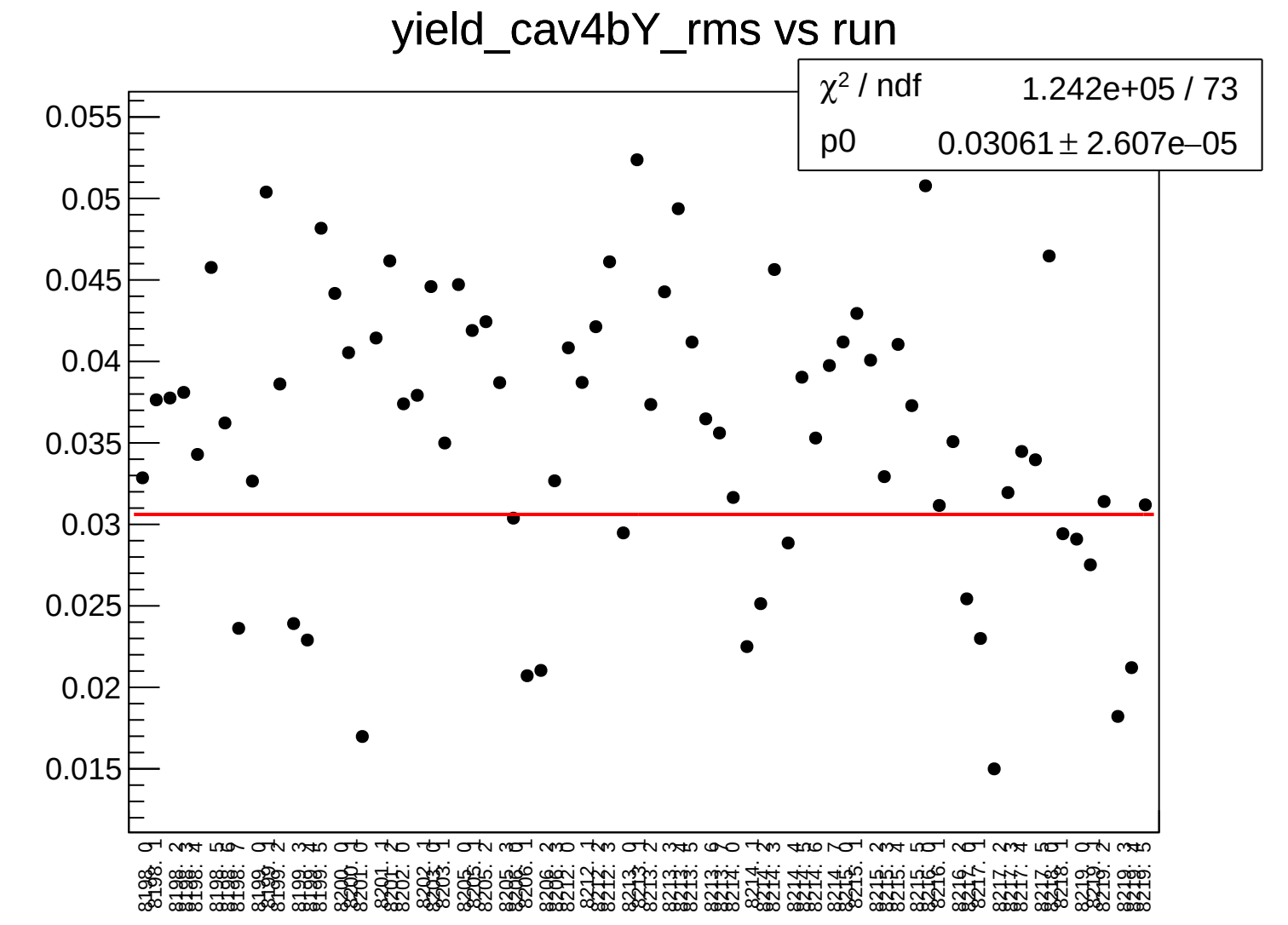

asym_bpm1i06WS_rms vs run
χ² / ndf 4189 / 73
p0 207.5 ± 0.1695
240
230
220
210
200
190
180

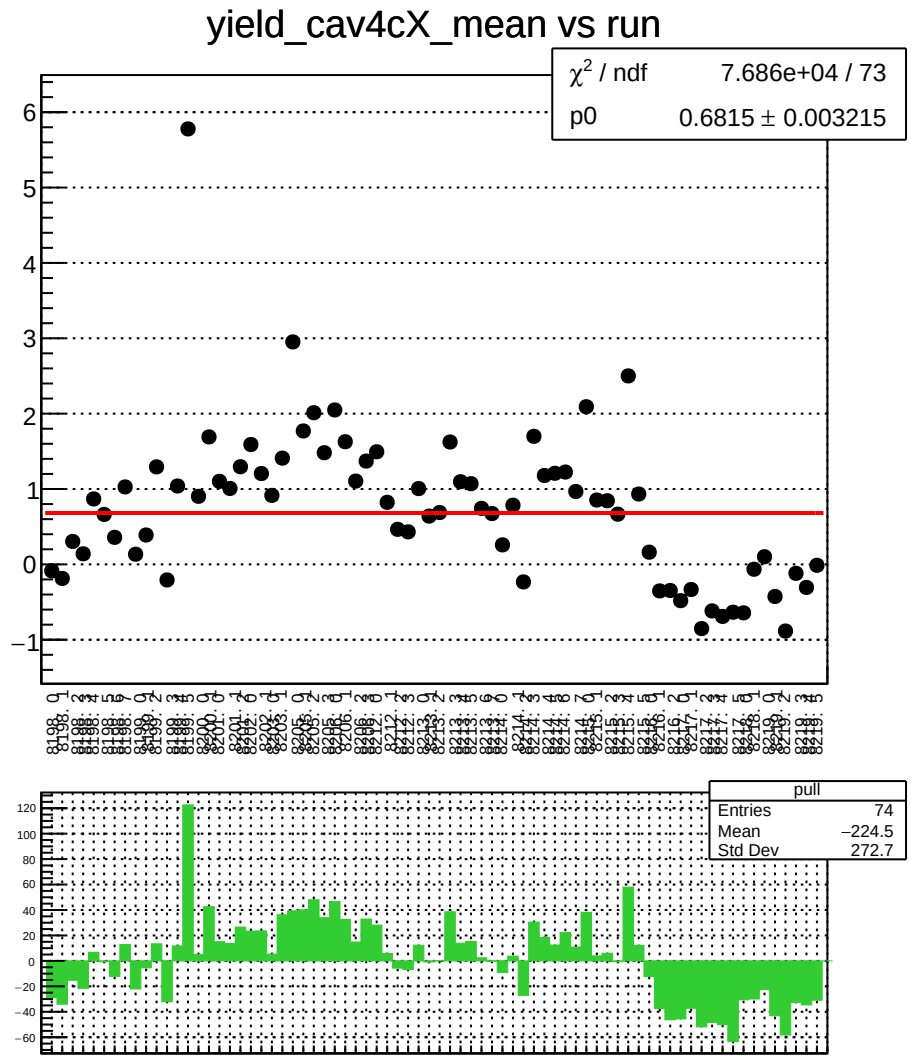

yield_cav4bX_mean vs run
χ² / ndf 1.354e+05 / 73
p0 0.9377 ± 0.0001456
pull
Entries 74
Mean −23.17
Std Dev 83.08
pull1D
Entries 74
Mean −0.4823
Std Dev 4.262

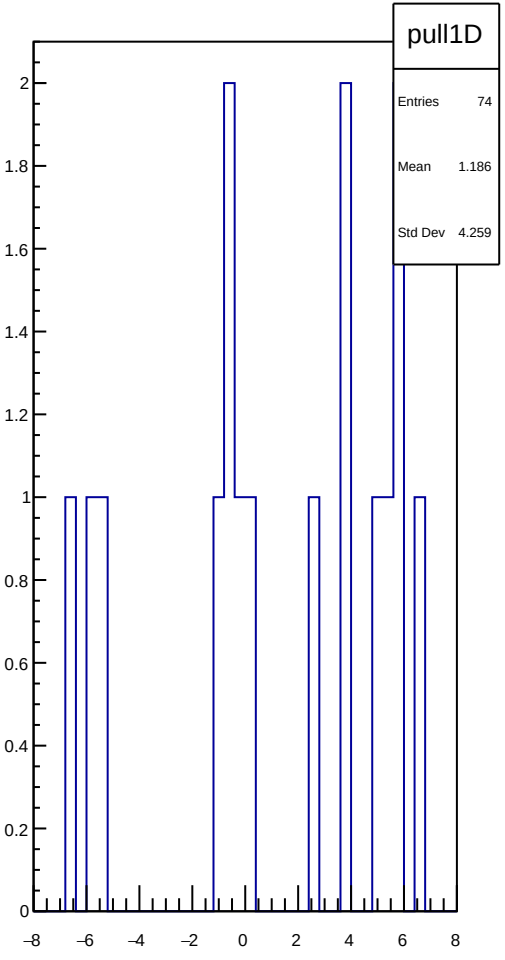

yield_cav4bX_rms vs run
χ² / ndf 3.43e+04 / 73
p0 0.1248 ± 0.000103
0.24
0.22
0.2
0.18
0.16
0.14
0.12
0.1

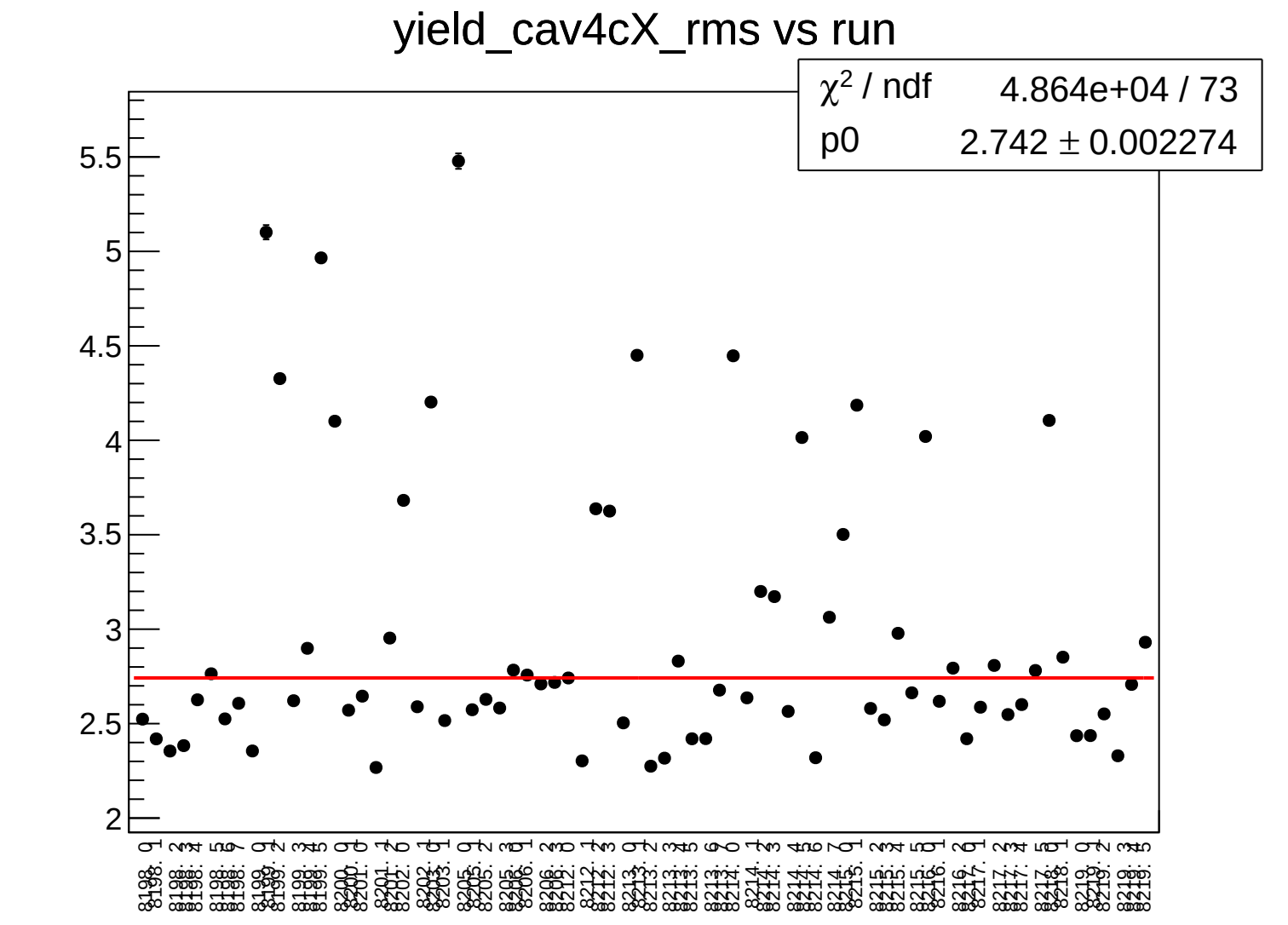

yield_cav4bY_mean vs run
χ² / ndf 2.951e+05 / 73
p0 1.07 ± 3.687e−05
1.1
1.08
1.06
1.04
1.02
pull
Entries 74
Mean −4.742
Std Dev 48.9
150
100
50
0
−50
−100
−150

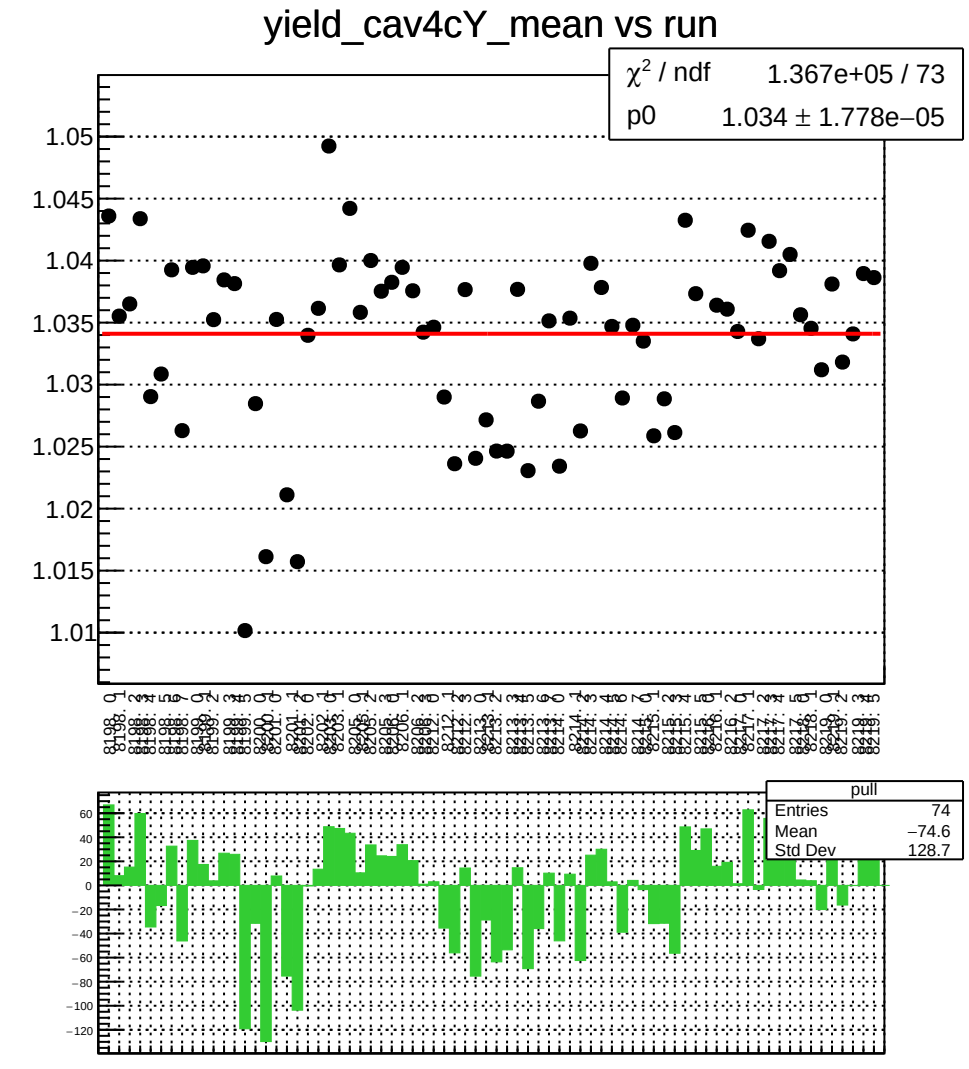

pull1D
Entries 74
Mean 3.666
Std Dev 2.661
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

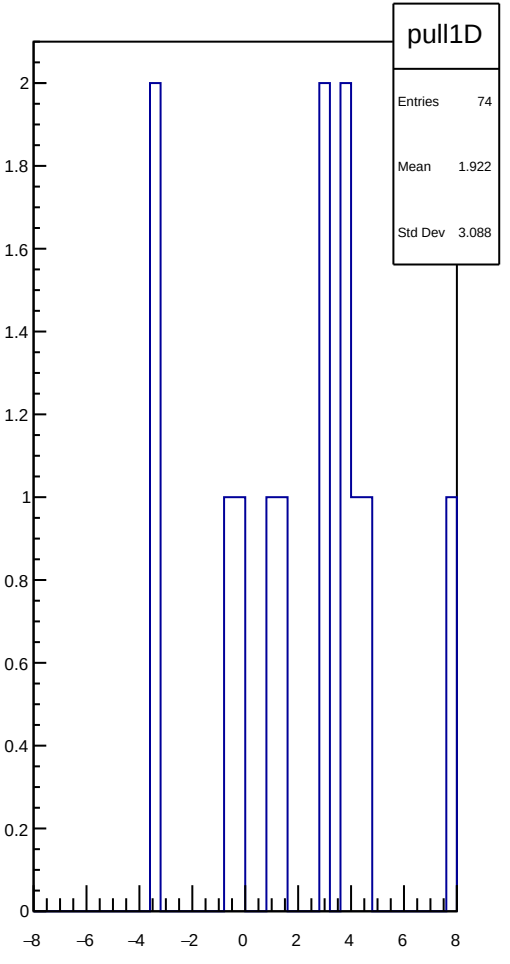

yield_cav4bY_rms vs run
χ² / ndf 1.242e+05 / 73
p0 0.03061 ± 2.607e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

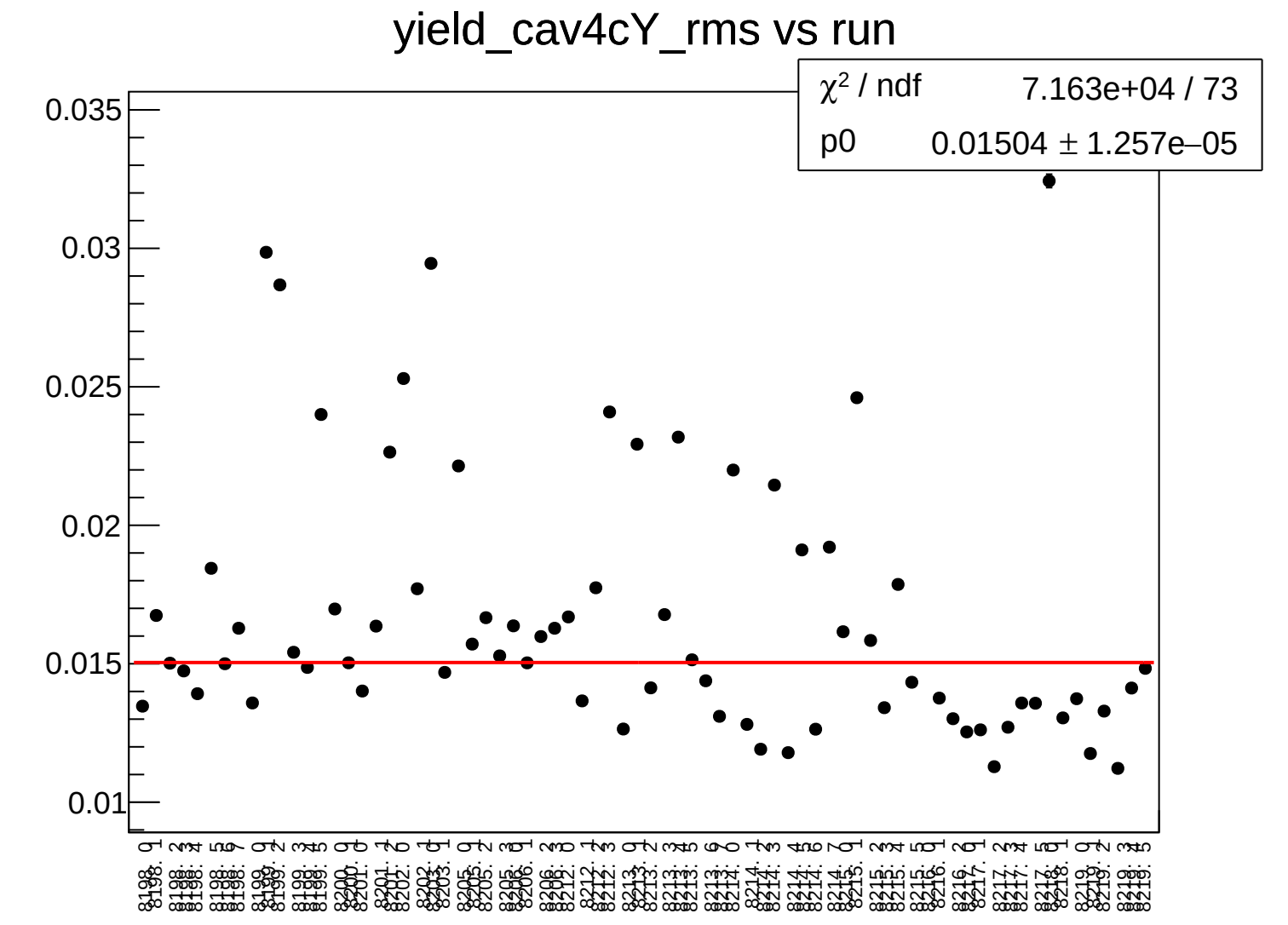

yield_cav4cX_mean vs run
χ² / ndf 7.686e+04 / 73
p0 0.6815 ± 0.003215
pull
Entries 74
Mean −224.5
Std Dev 272.7

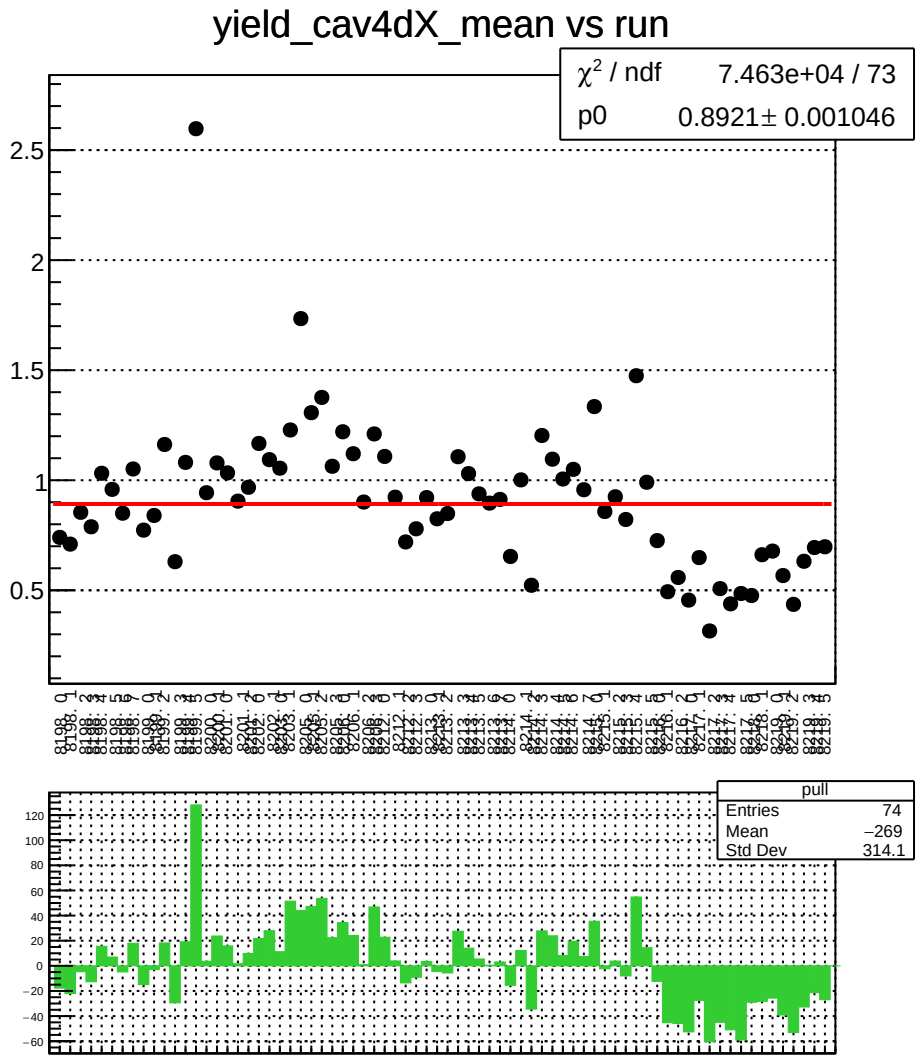

pull1D
Entries 74
Mean 1.186
Std Dev 4.259

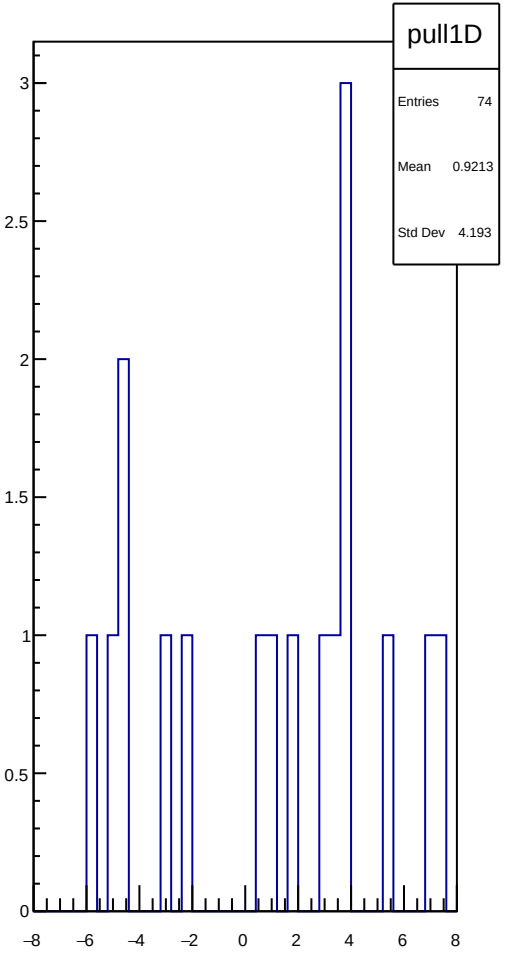

yield_cav4cX_rms vs run
χ^2 / ndf 4.864e+04 / 73
p0 2.742 ± 0.002274
5.5
5
4.5
4
3.5
3
2.5
2

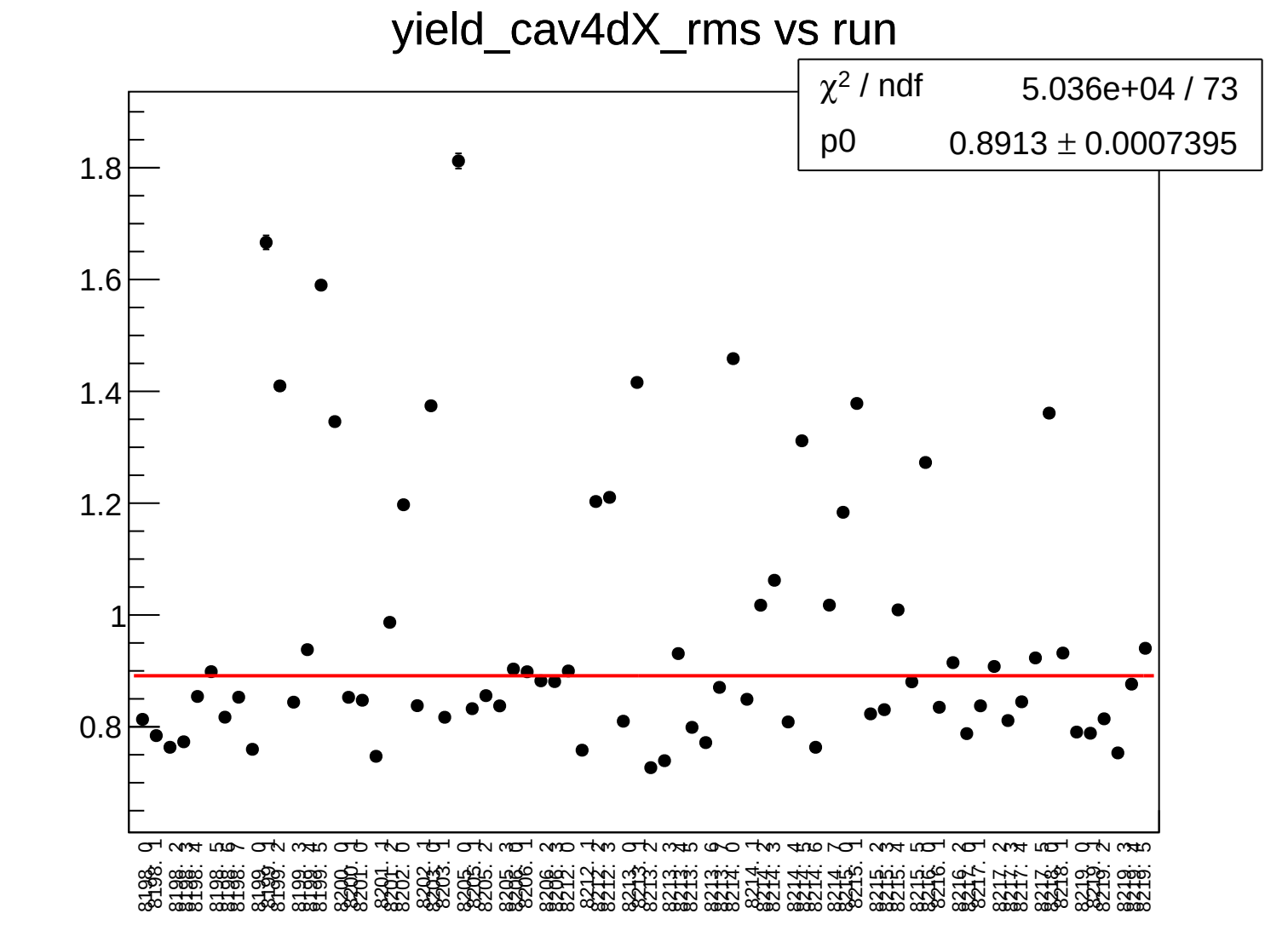

yield_cav4cY_mean vs run
χ² / ndf 1.367e+05 / 73
p0 1.034 ± 1.778e−05
pull
Entries 74
Mean −74.6
Std Dev 128.7

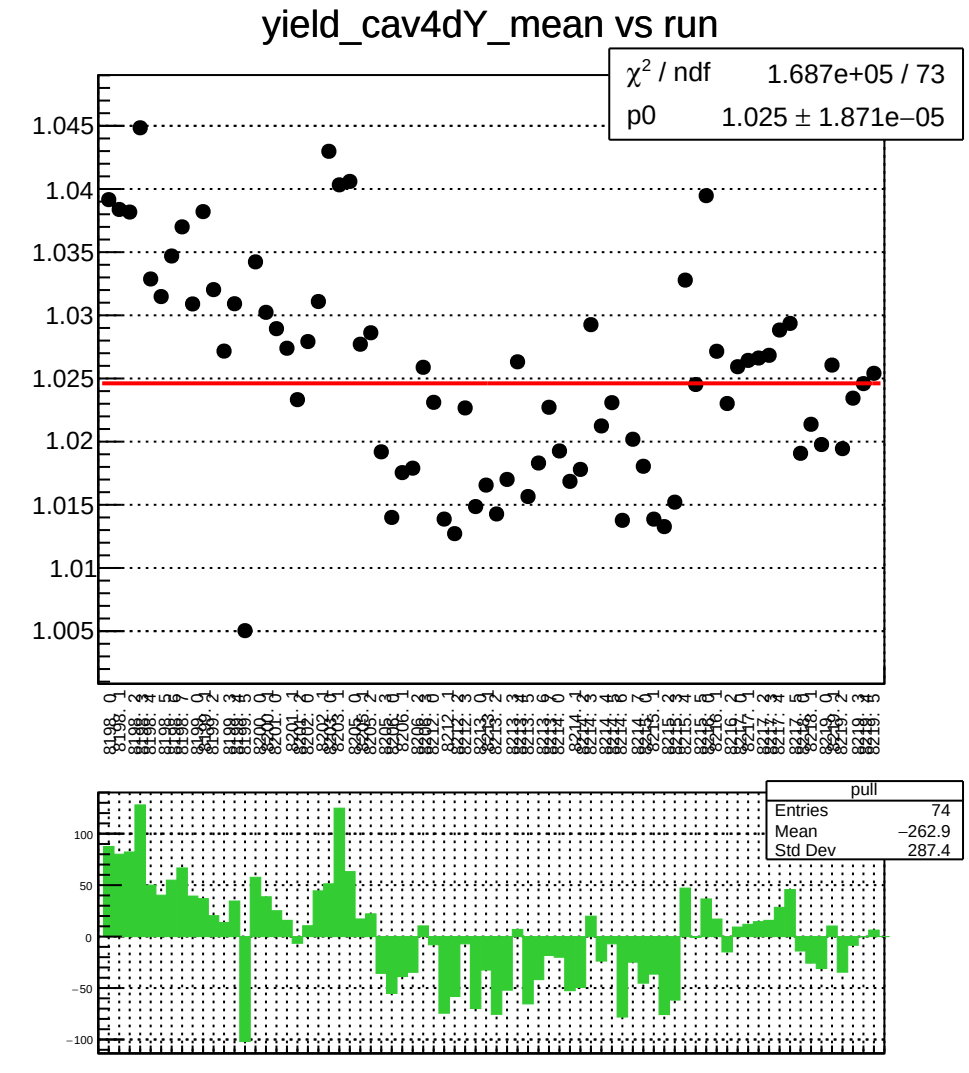

pull1D
Entries 74
Mean 1.922
Std Dev 3.088

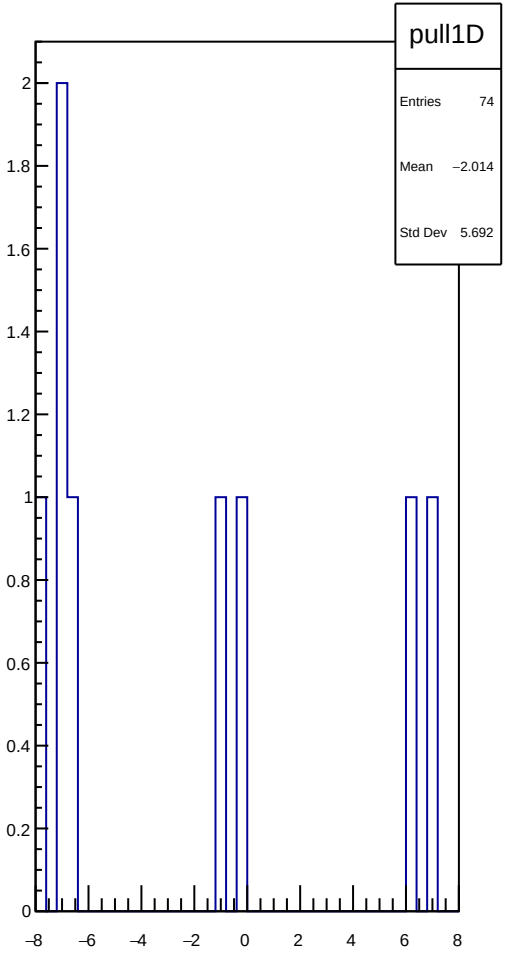

yield_cav4cY_rms vs run
χ² / ndf 7.163e+04 / 73
p0 0.01504 ± 1.257e–05
0.035
0.03
0.025
0.02
0.015
0.01

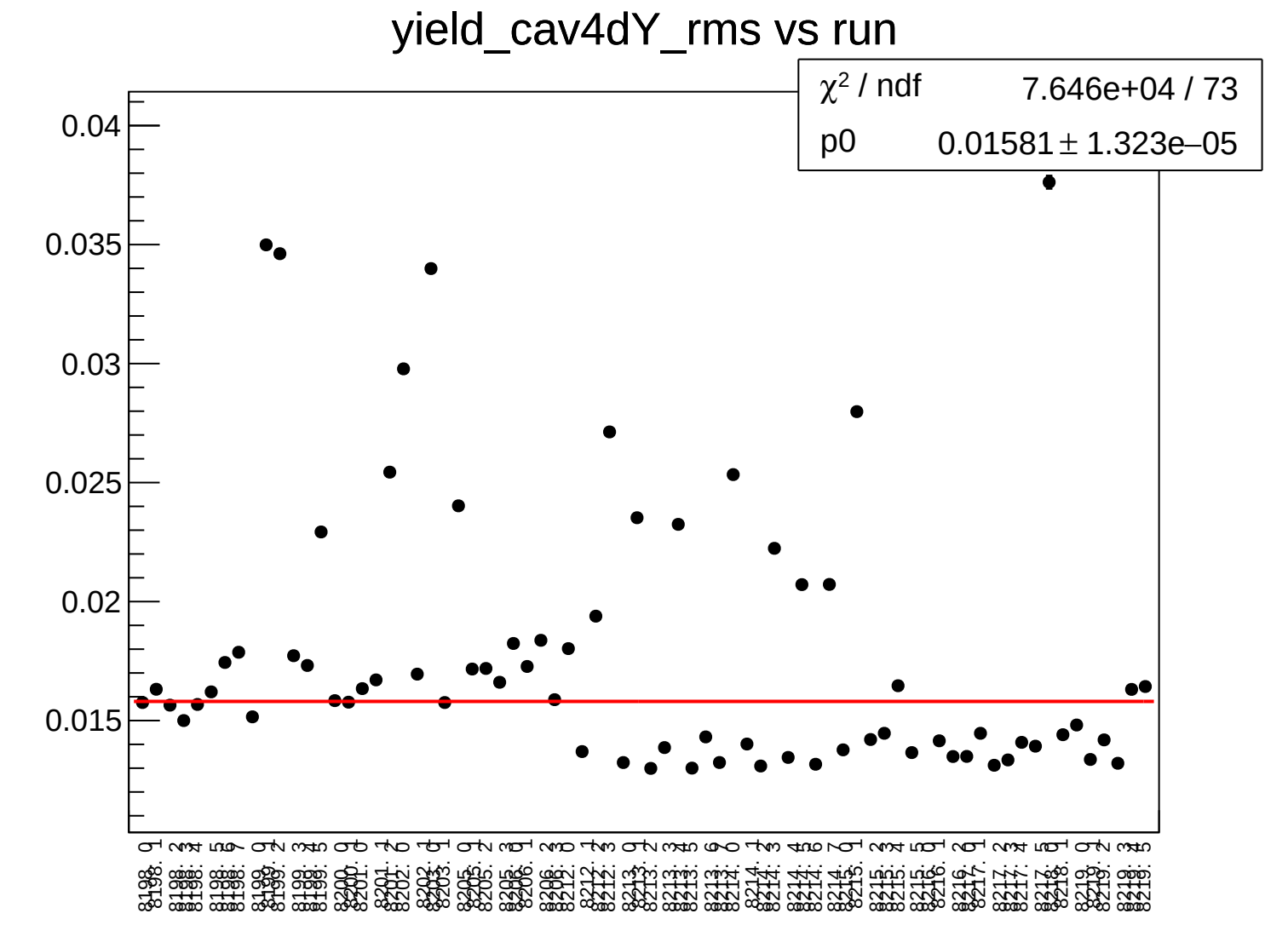

yield_cav4dX_mean vs run
χ² / ndf 7.463e+04 / 73
p0 0.8921± 0.001046
pull
Entries 74
Mean −269
Std Dev 314.1

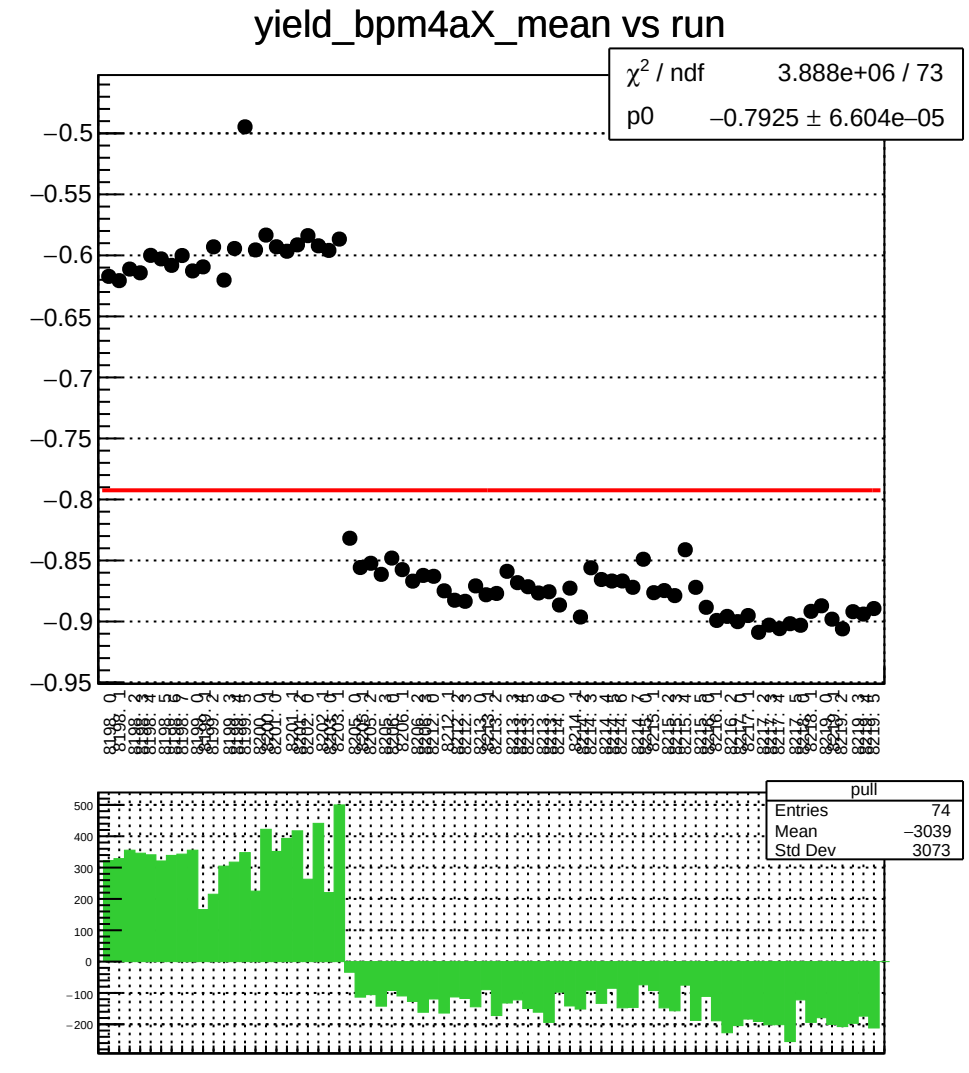

pull1D
Entries 74
Mean 0.9213
Std Dev 4.193

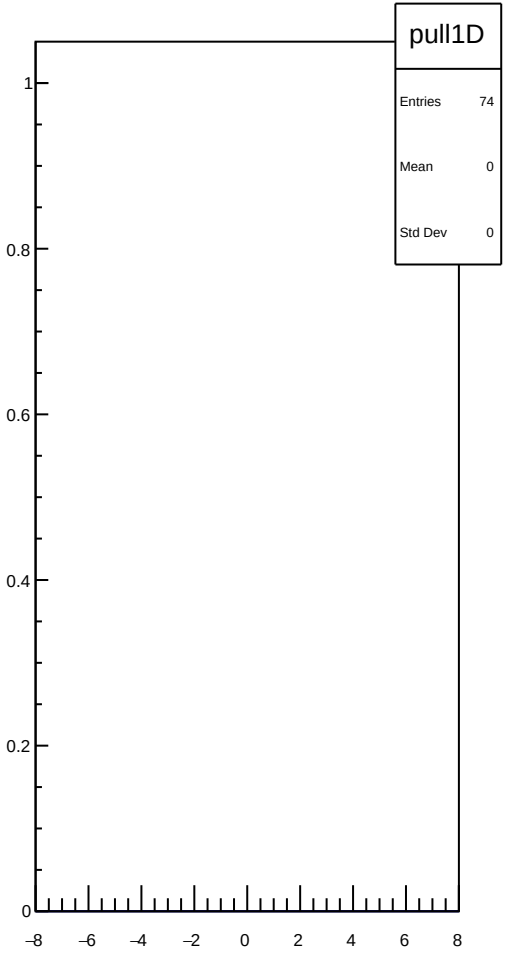

yield_cav4dX_rms vs run
χ² / ndf 5.036e+04 / 73
p0 0.8913 ± 0.0007395
1.8
1.6
1.4
1.2
1
0.8

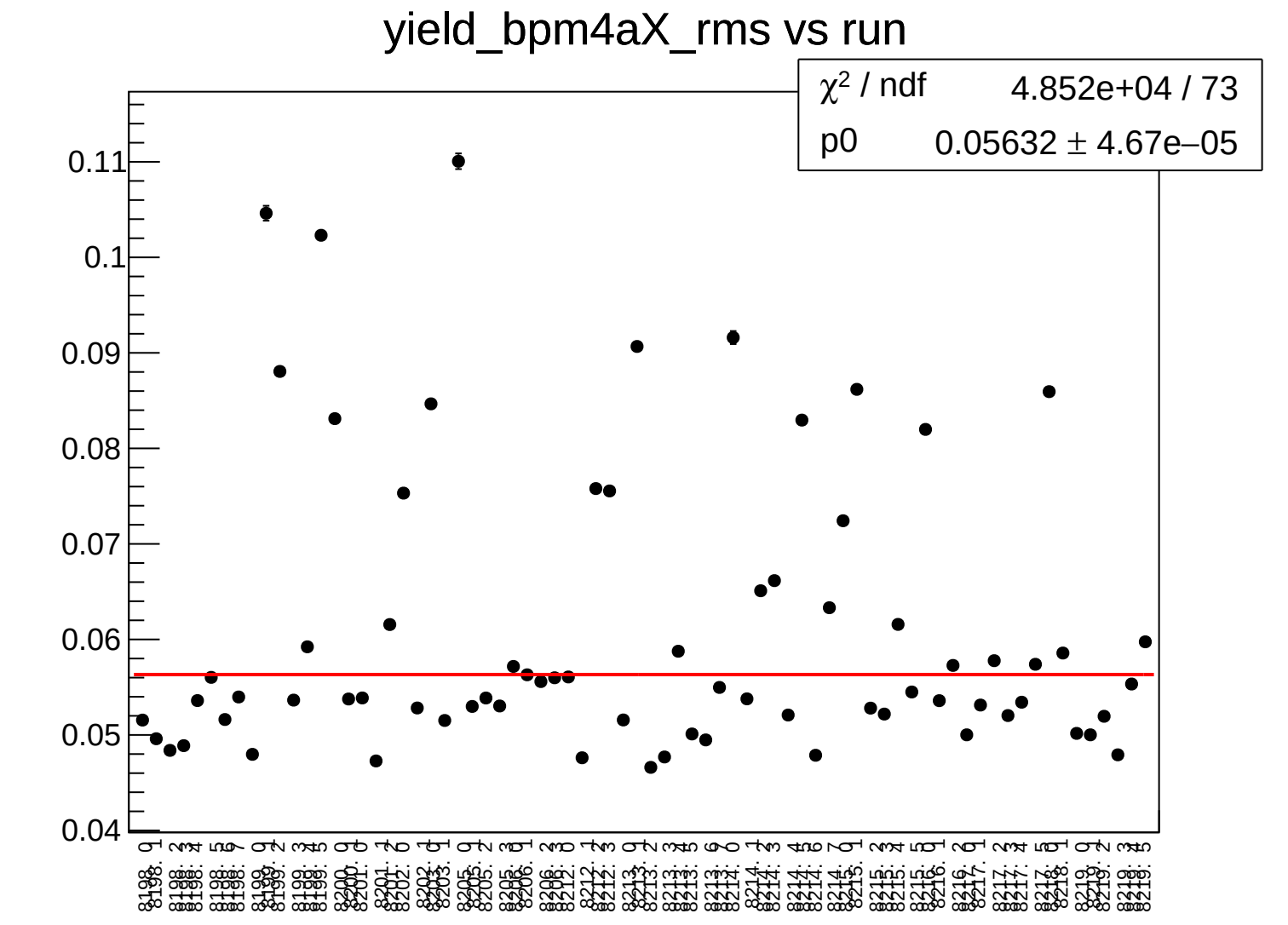

yield_cav4dY_mean vs run
χ² / ndf 1.687e+05 / 73
p0 1.025 ± 1.871e−05
1.045
1.04
1.035
1.03
1.025
1.02
1.015
1.01
1.005
pull
Entries 74
Mean −262.9
Std Dev 287.4
100
50
0
−50
−100

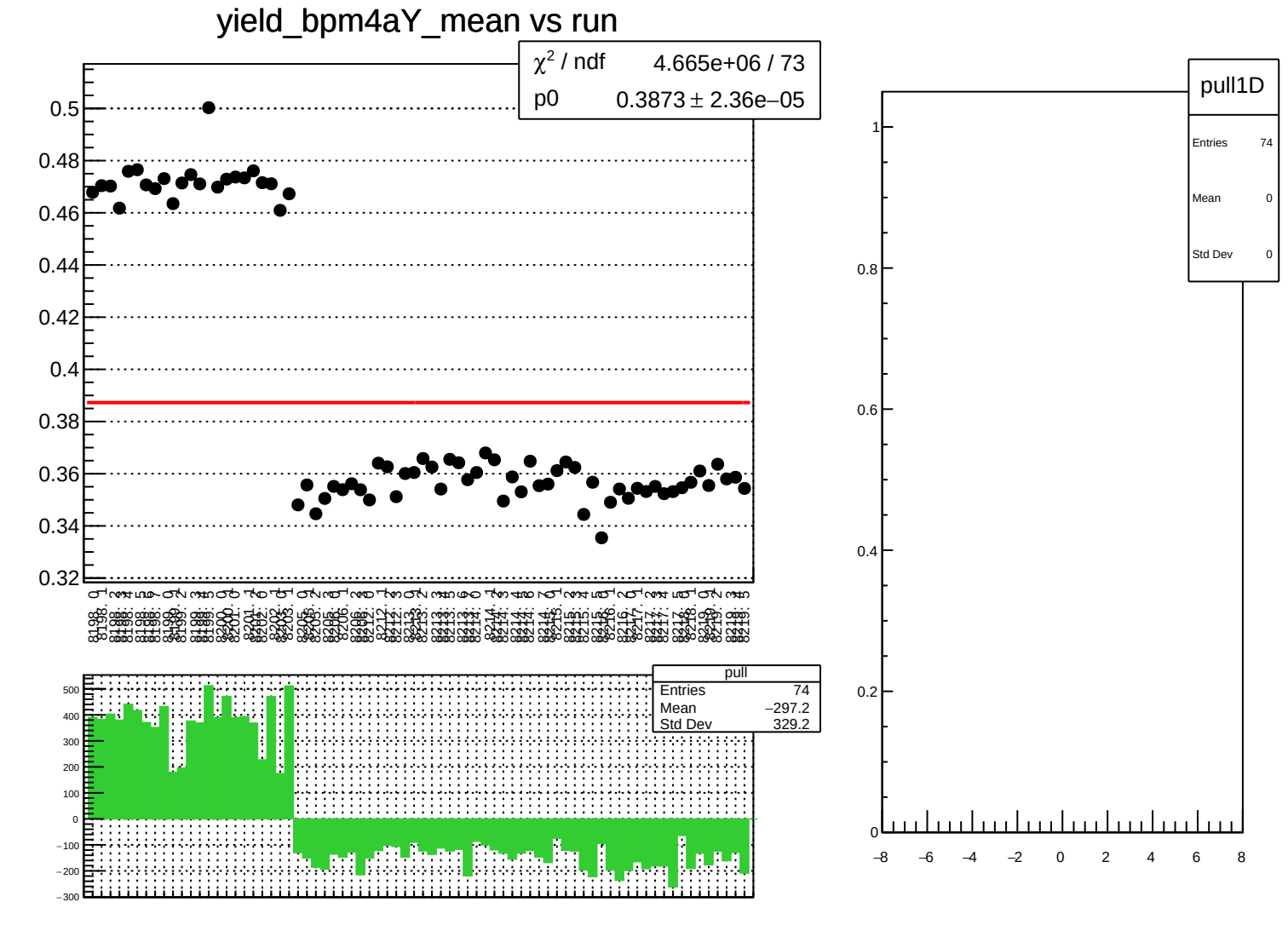

pull1D
Entries 74
Mean −2.014
Std Dev 5.692
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


yield_cav4dY_rms vs run
χ² / ndf 7.646e+04 / 73
p0 0.01581 ± 1.323e−05
0.04
0.035
0.03
0.025
0.02
0.015

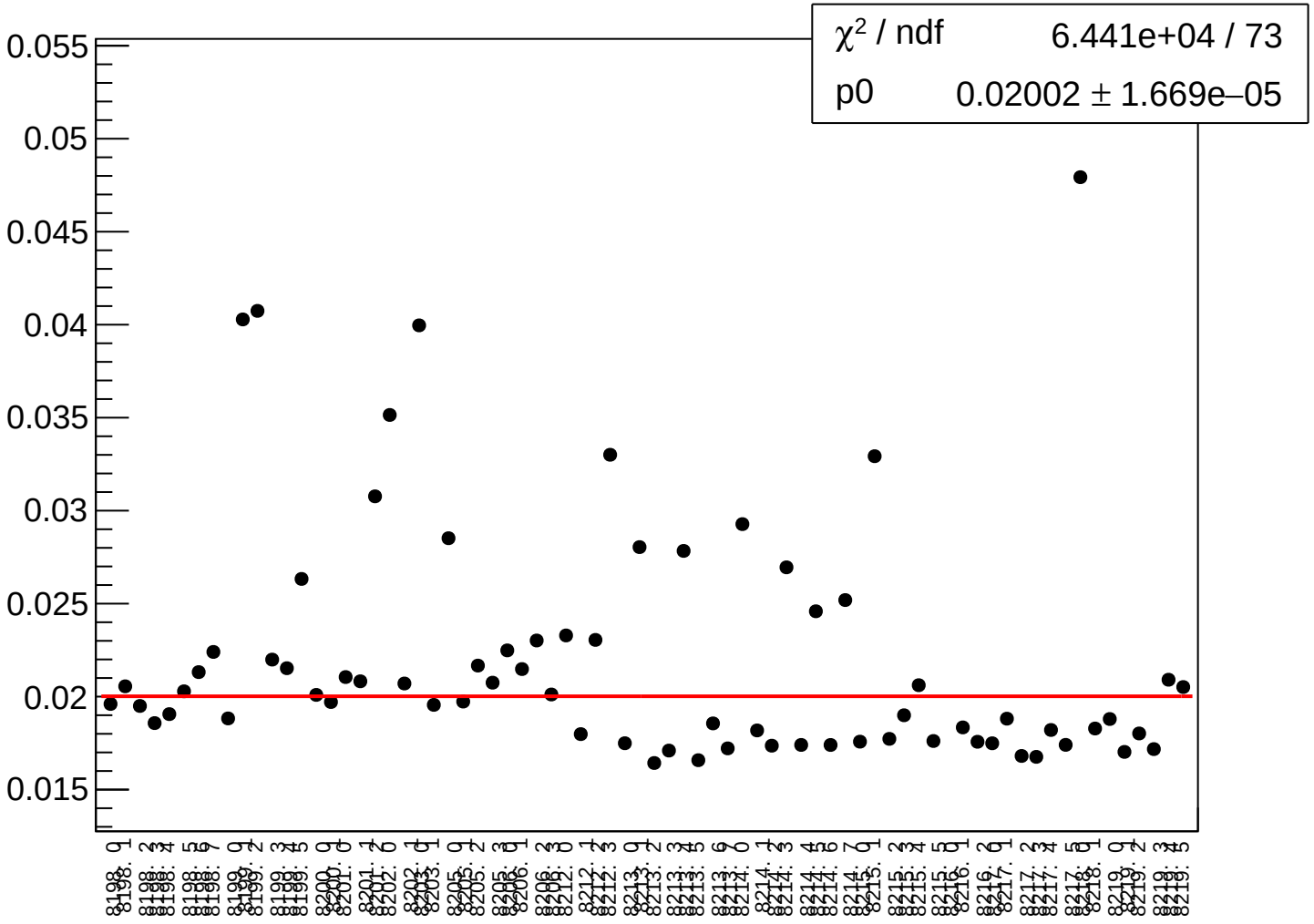

yield_bpm4aX_mean vs run
χ² / ndf 3.888e+06 / 73
p0 −0.7925 ± 6.604e−05
pull
Entries 74
Mean −3039
Std Dev 3073

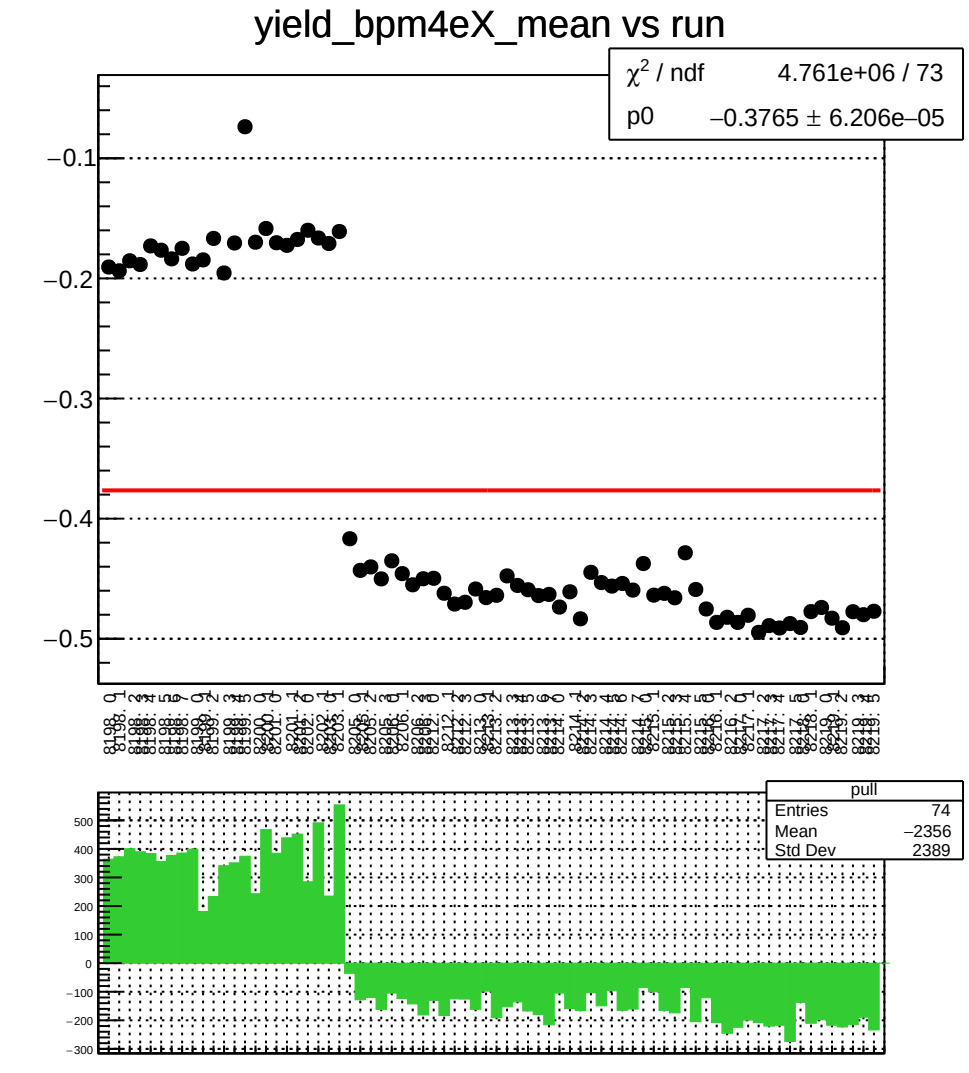

pull1D
Entries 74
Mean 0
Std Dev 0

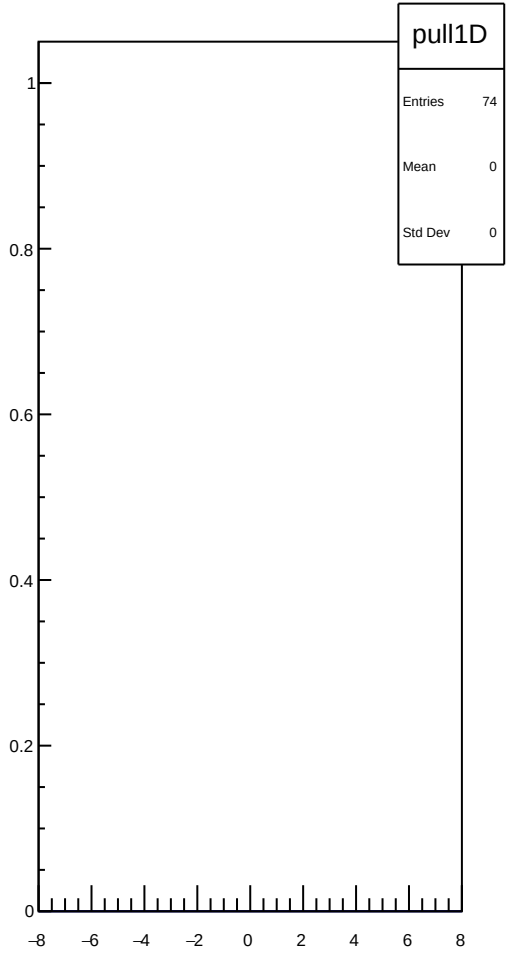

yield_bpm4aX_rms vs run
χ² / ndf 4.852e+04 / 73
p0 0.05632 ± 4.67e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

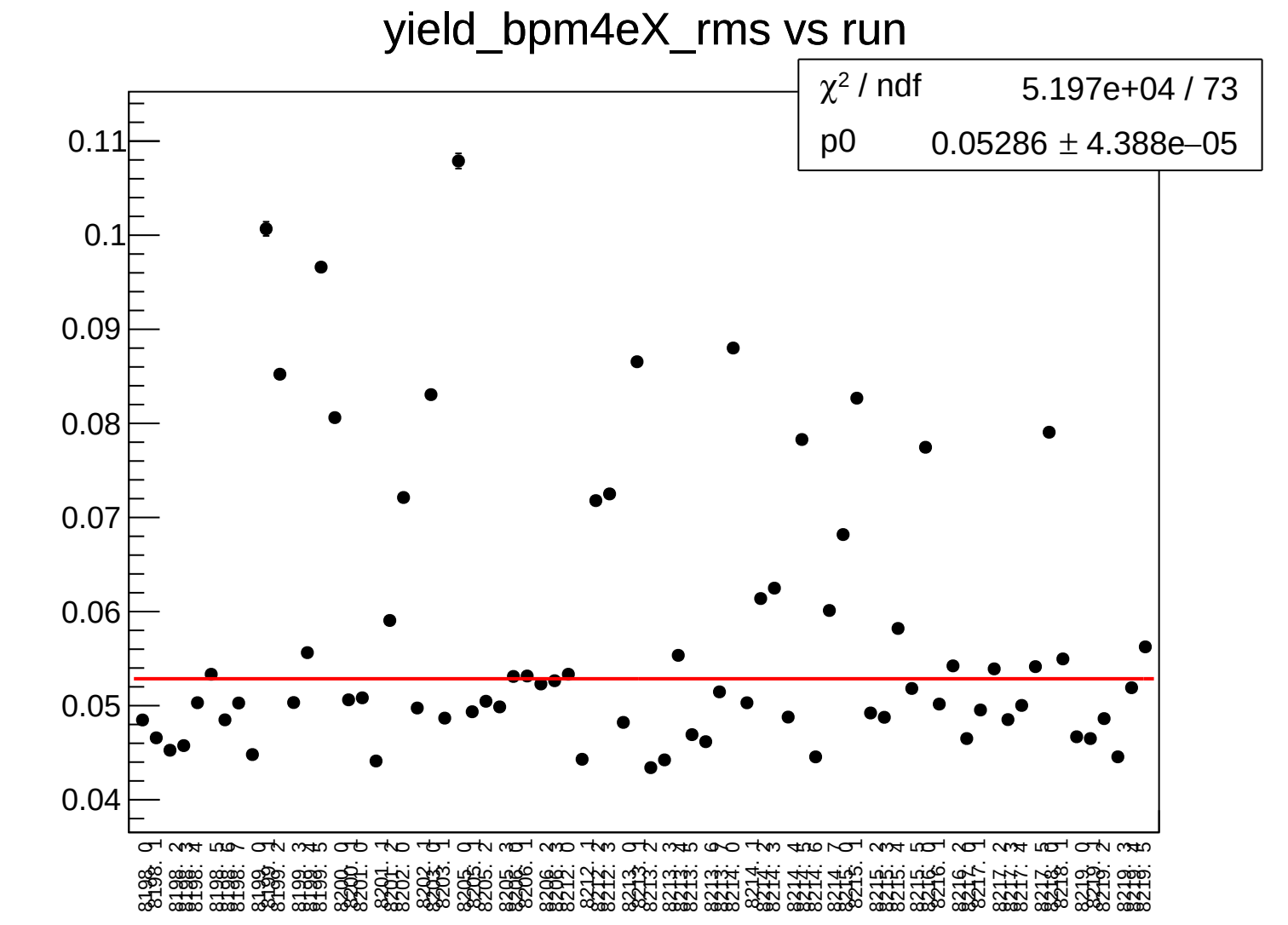

yield_bpm4aY_mean vs run
χ² / ndf 4.665e+06 / 73
p0 0.3873 ± 2.36e−05
pull
Entries 74
Mean −297.2
Std Dev 329.2
pull1D
Entries 74
Mean 0
Std Dev 0

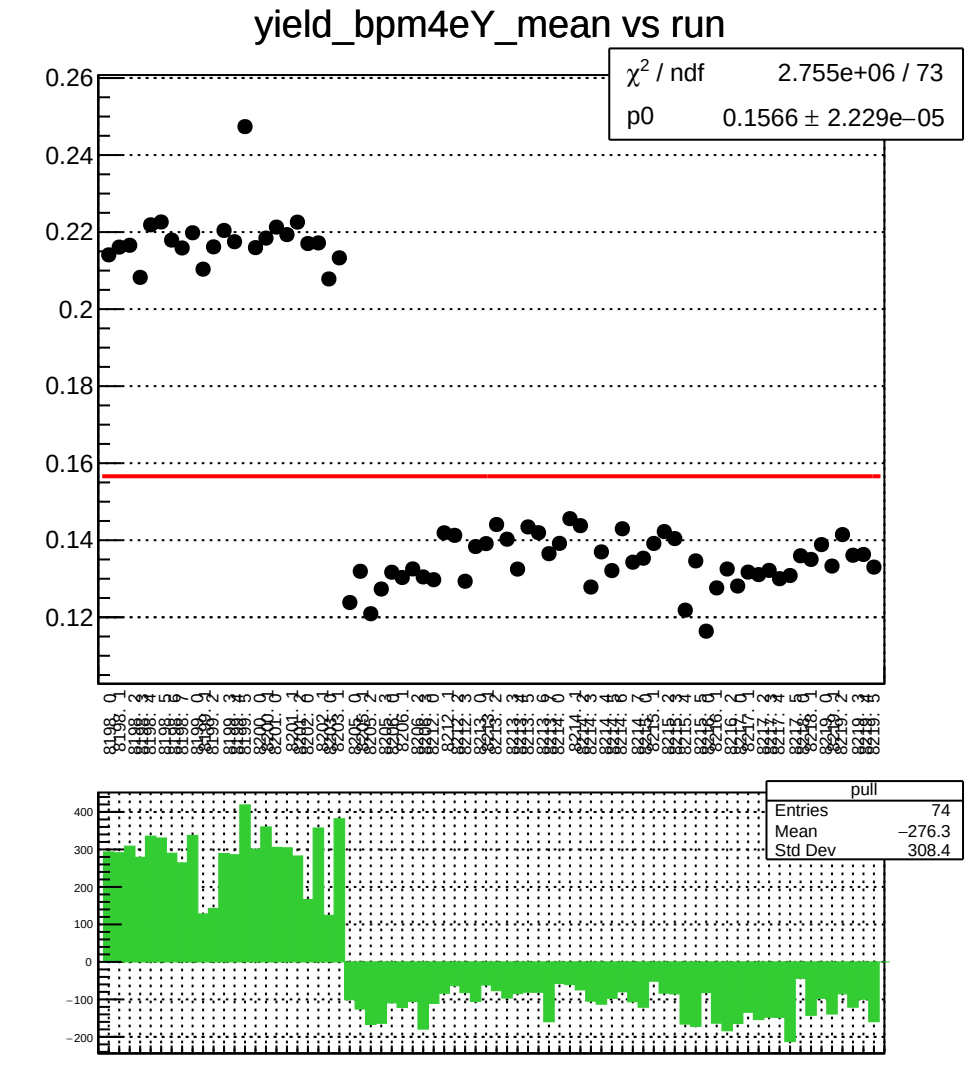
yield_bpm4aY_rms vs run

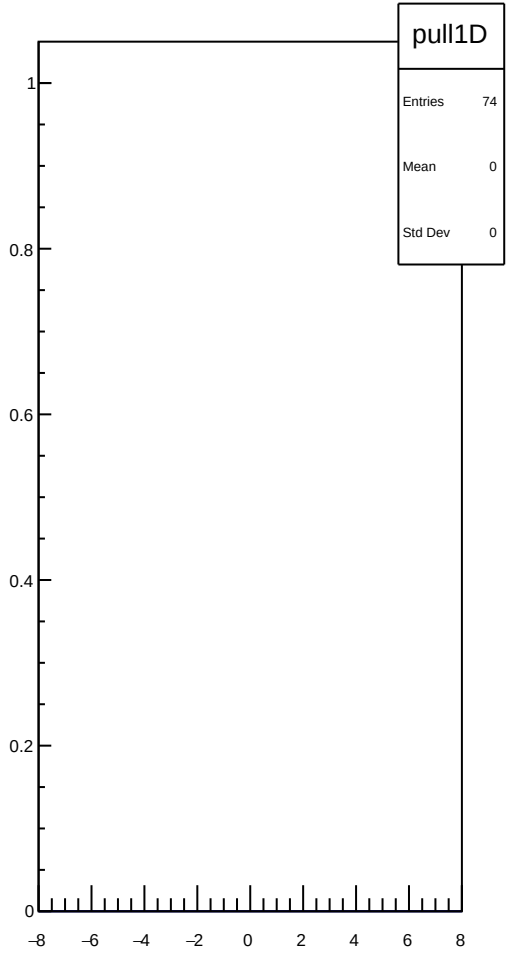


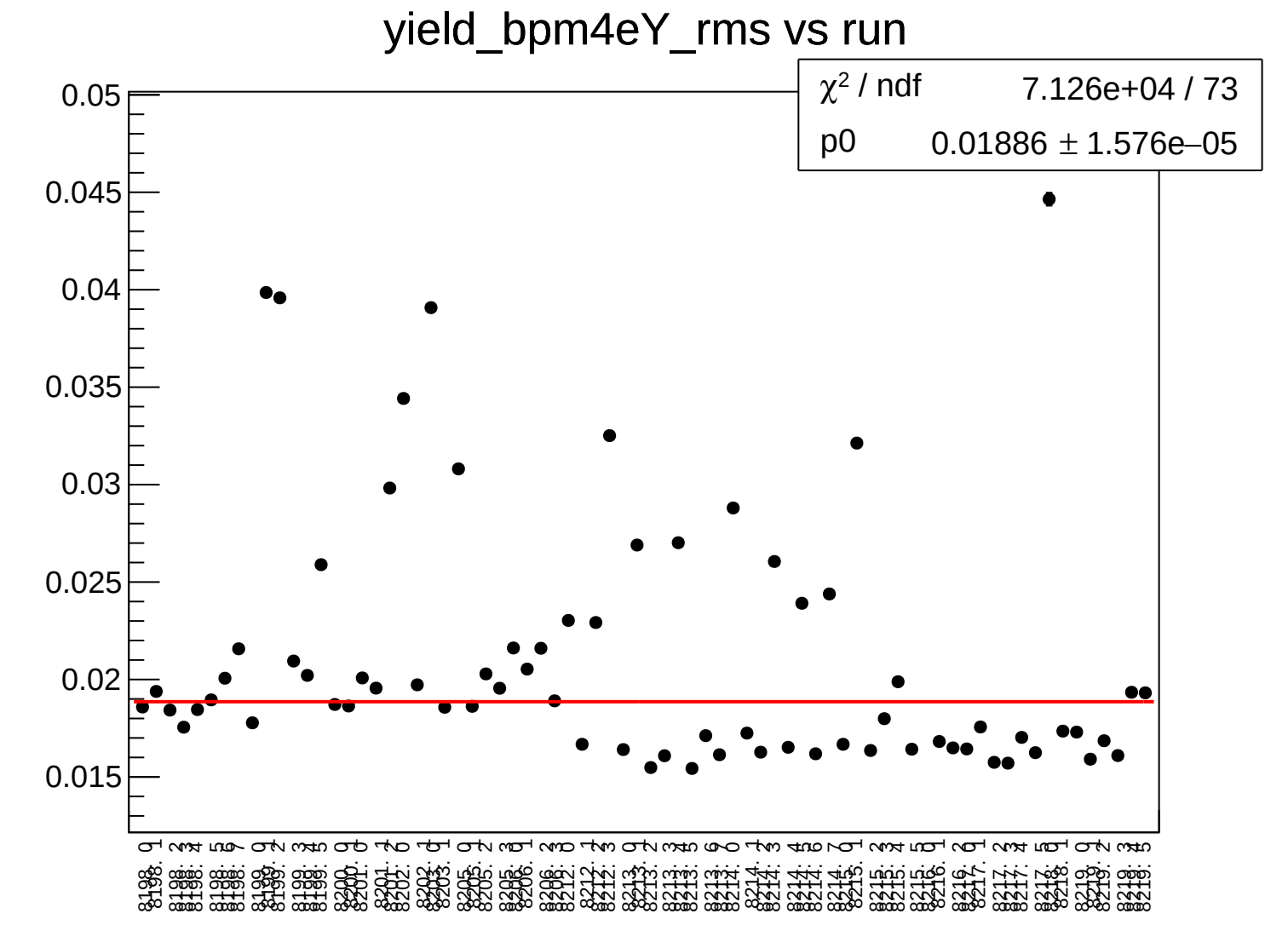

yield_bpm4eX_mean vs run
χ² / ndf 4.761e+06 / 73
p0 −0.3765 ± 6.206e−05
−0.1
−0.2
−0.3
−0.4
−0.5
pull
Entries 74
Mean −2356
Std Dev 2389
500
400
300
200
100
0
−100
−200
−300

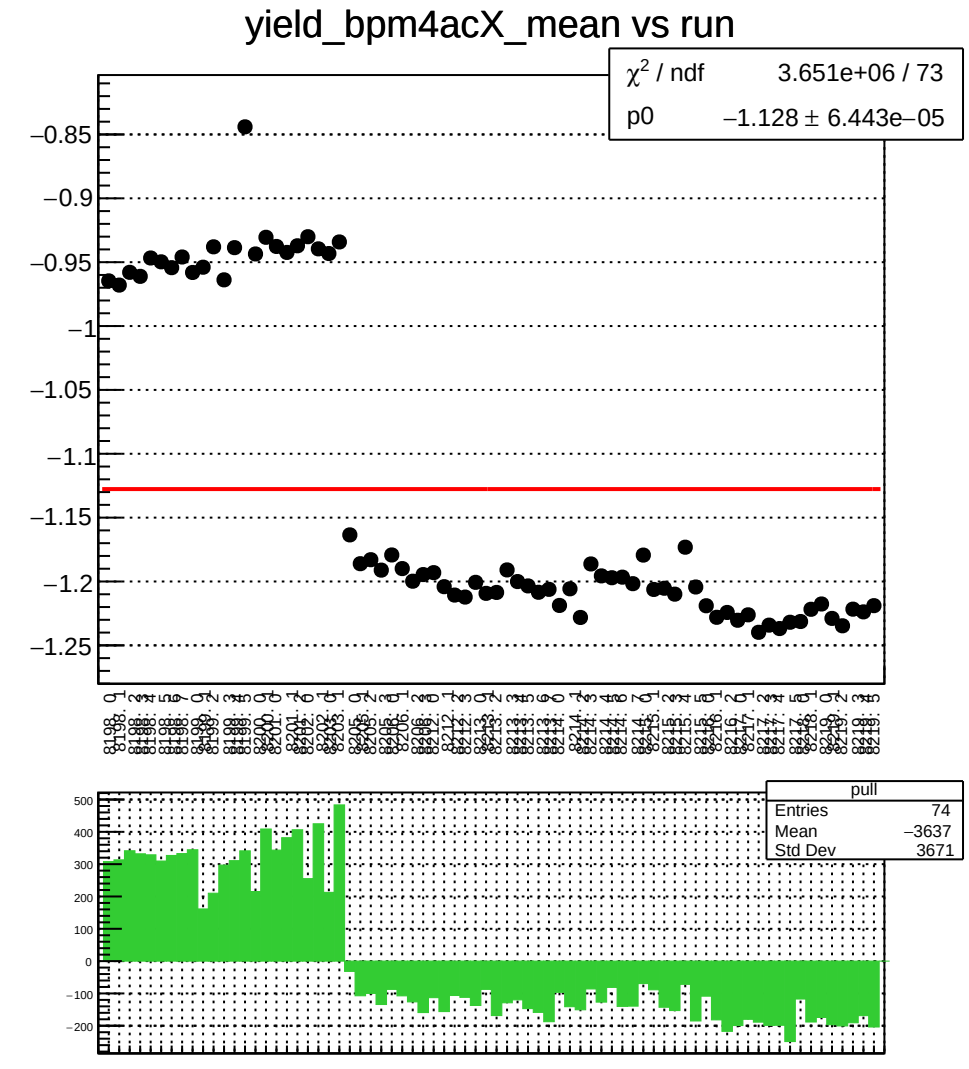

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

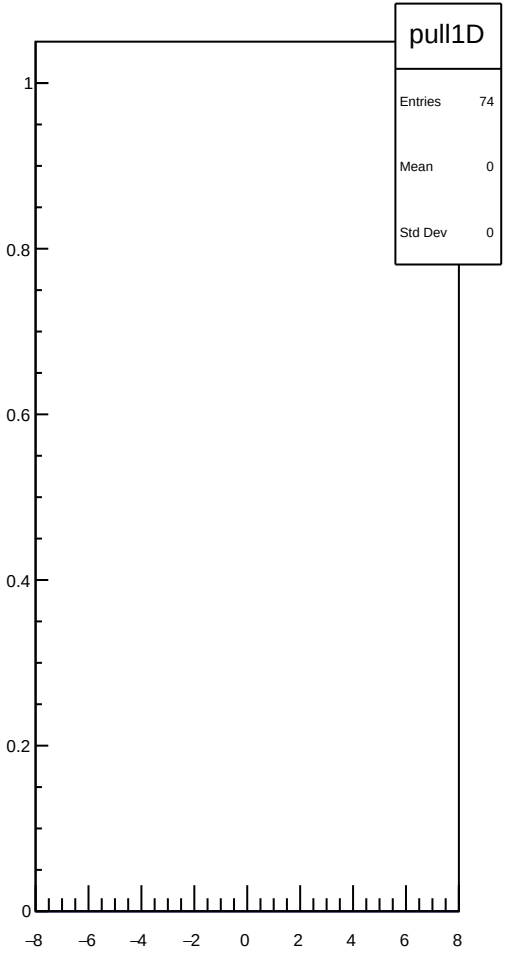

yield_bpm4eX_rms vs run
χ² / ndf 5.197e+04 / 73
p0 0.05286 ± 4.388e–05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

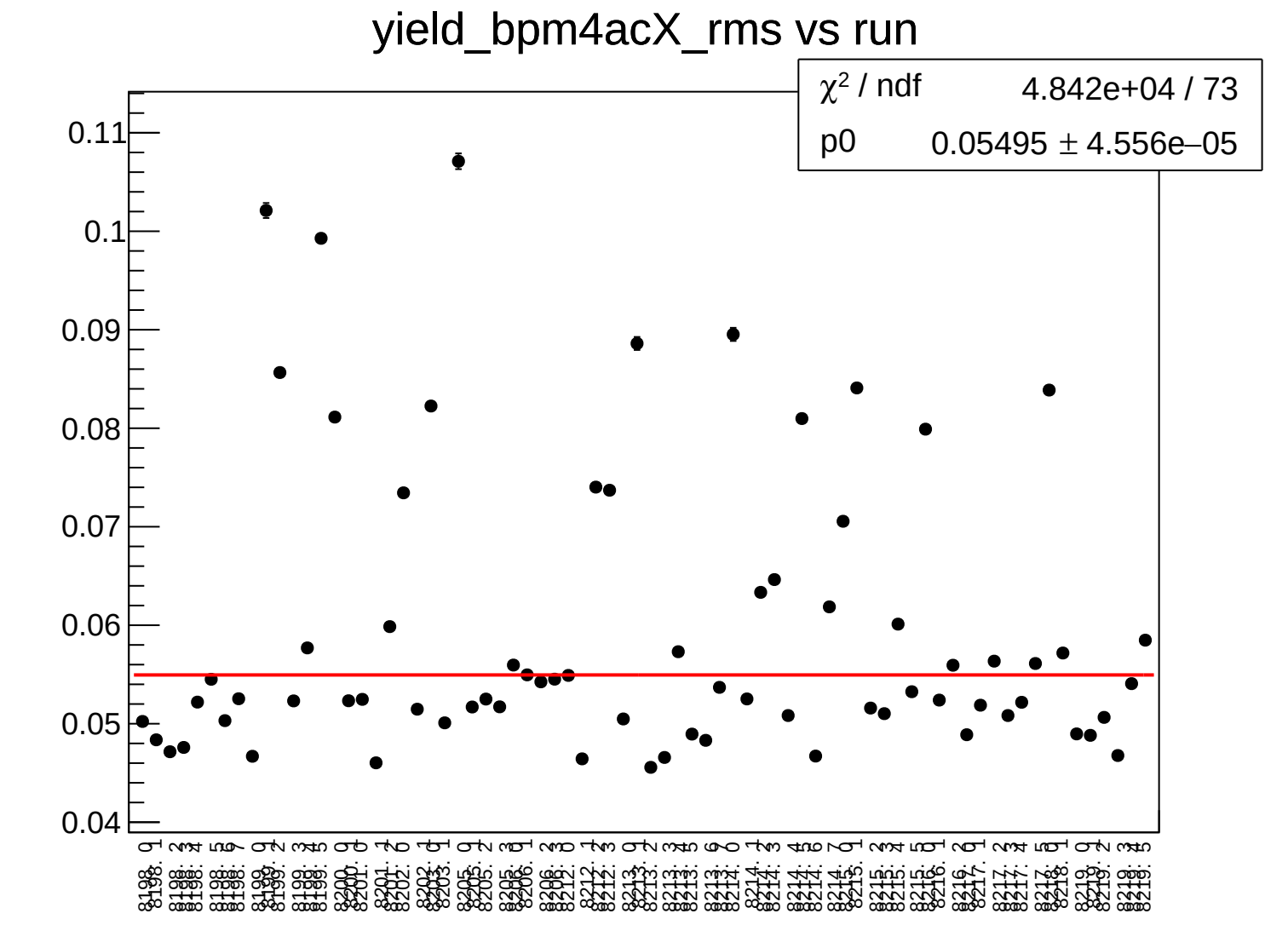

yield_bpm4eY_mean vs run
χ² / ndf 2.755e+06 / 73
p0 0.1566 ± 2.229e−05
pull
Entries 74
Mean −276.3
Std Dev 308.4

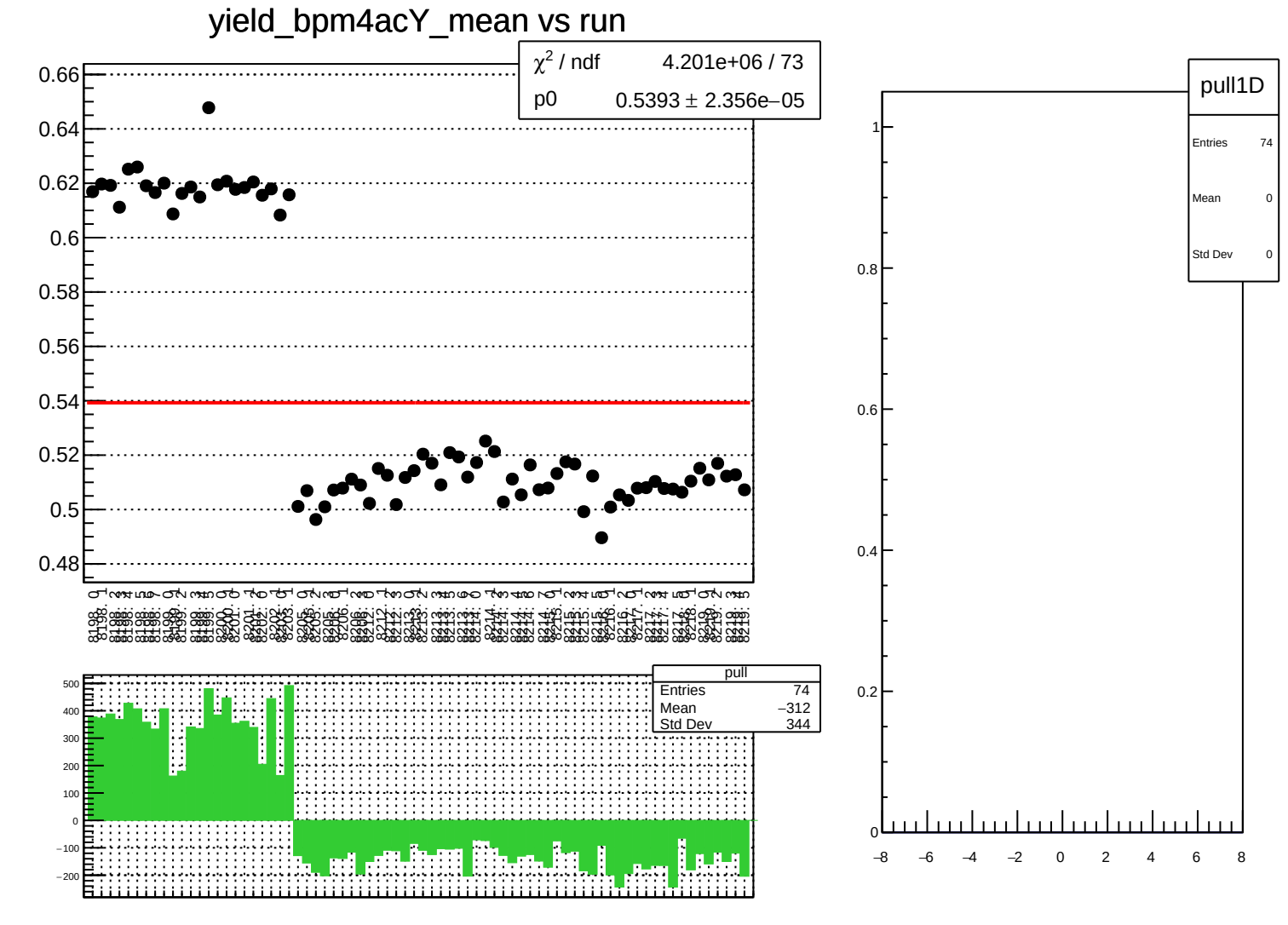

pull1D
Entries 74
Mean 0
Std Dev 0

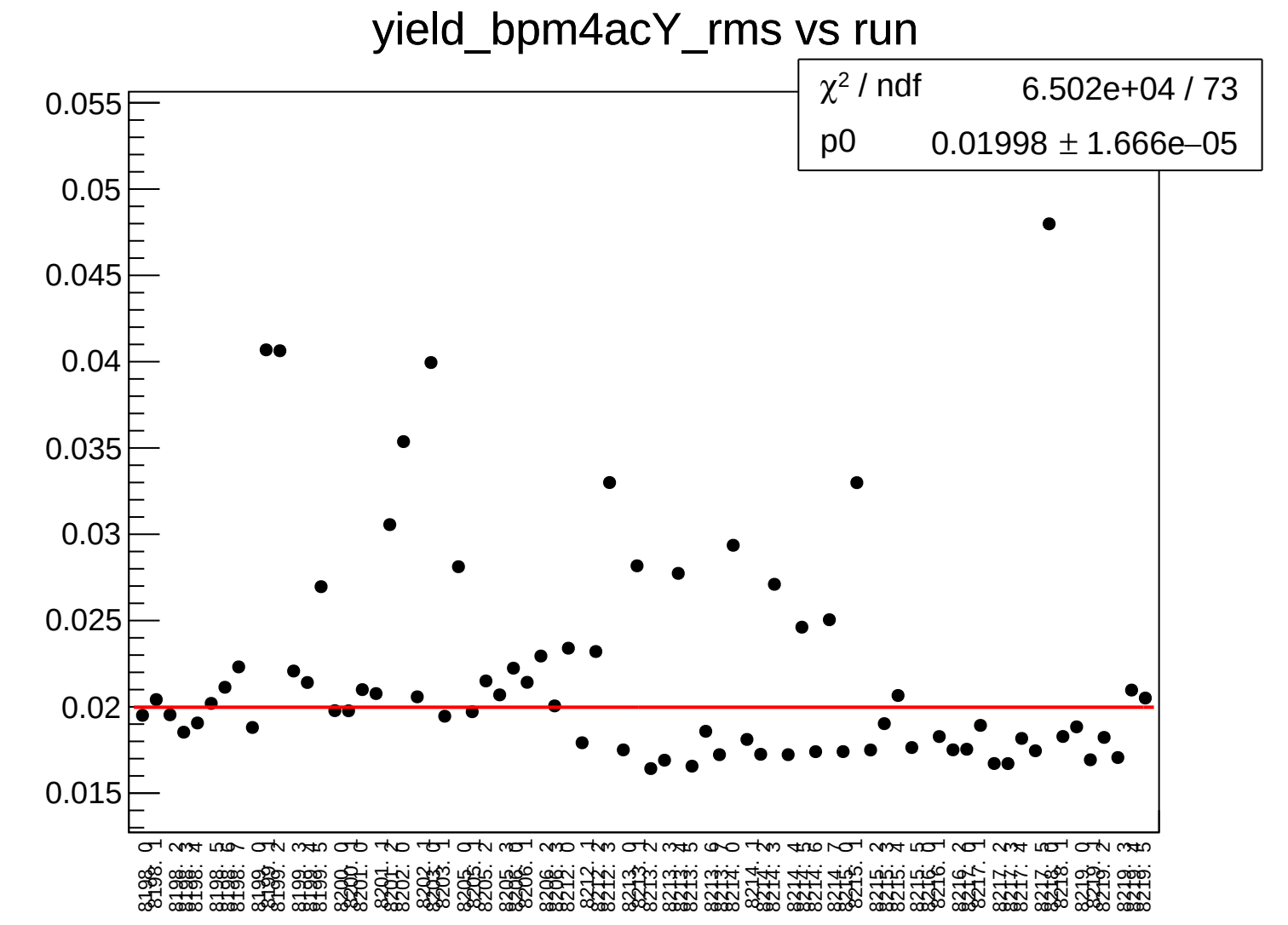

yield_bpm4eY_rms vs run
χ² / ndf 7.126e+04 / 73
p0 0.01886 ± 1.576e−05
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

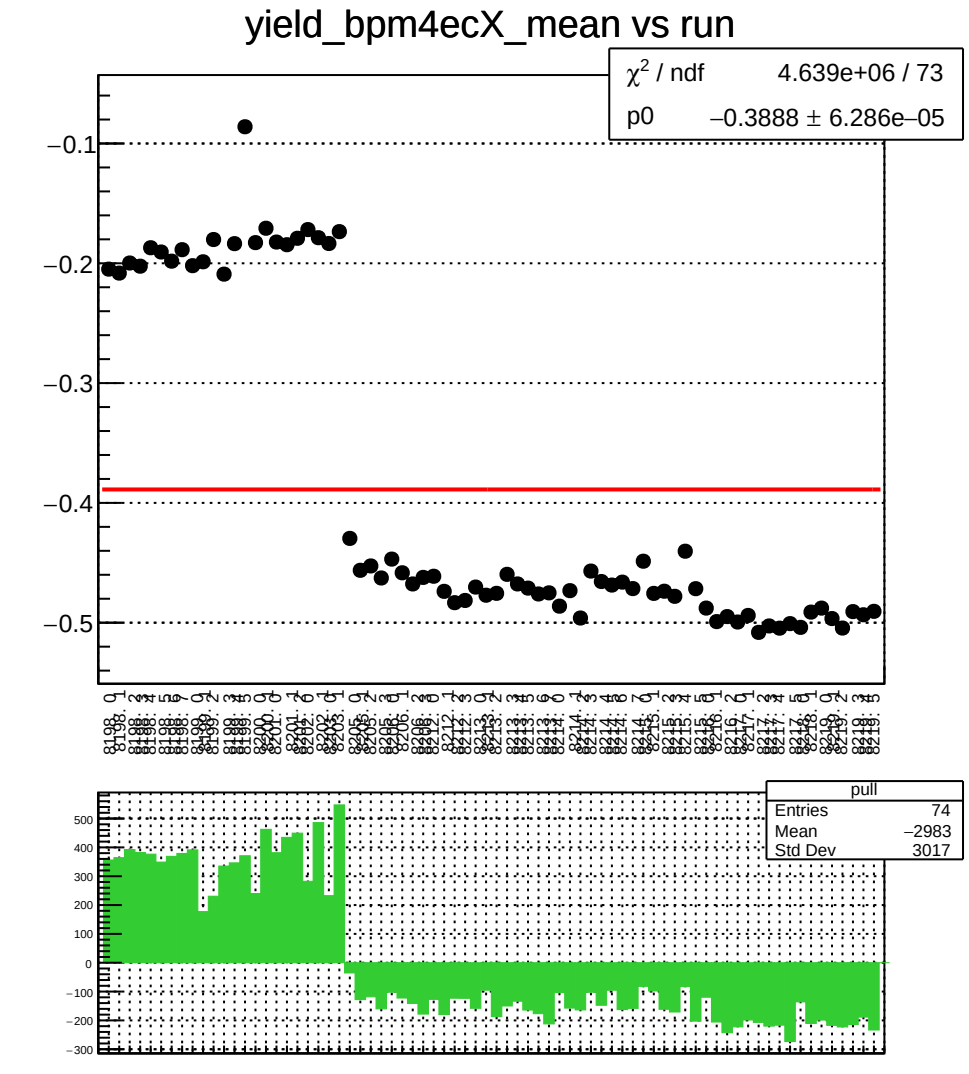

yield_bpm4acX_mean vs run
χ² / ndf 3.651e+06 / 73
p0 −1.128 ± 6.443e−05
−0.85
−0.9
−0.95
−1
−1.05
−1.1
−1.15
−1.2
−1.25
pull
Entries 74
Mean −3637
Std Dev 3671
500
400
300
200
100
0
−100
−200

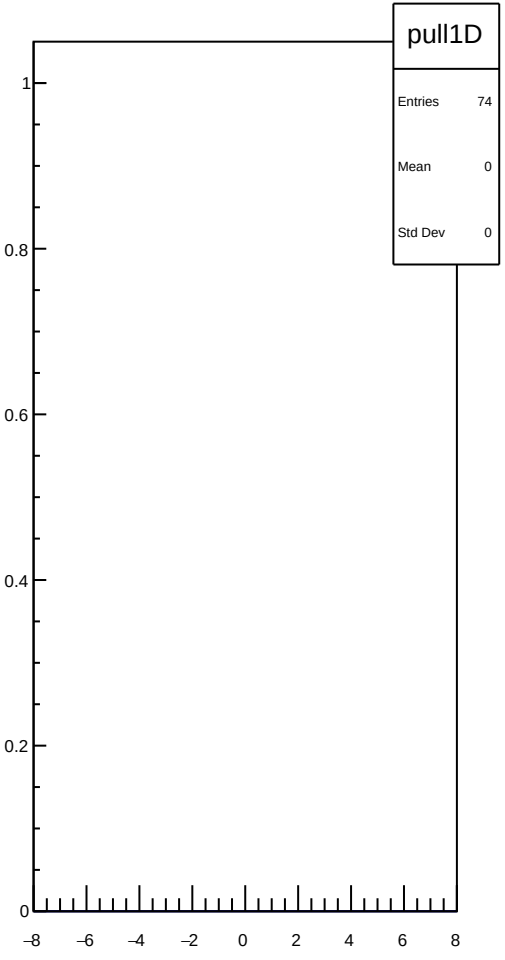

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

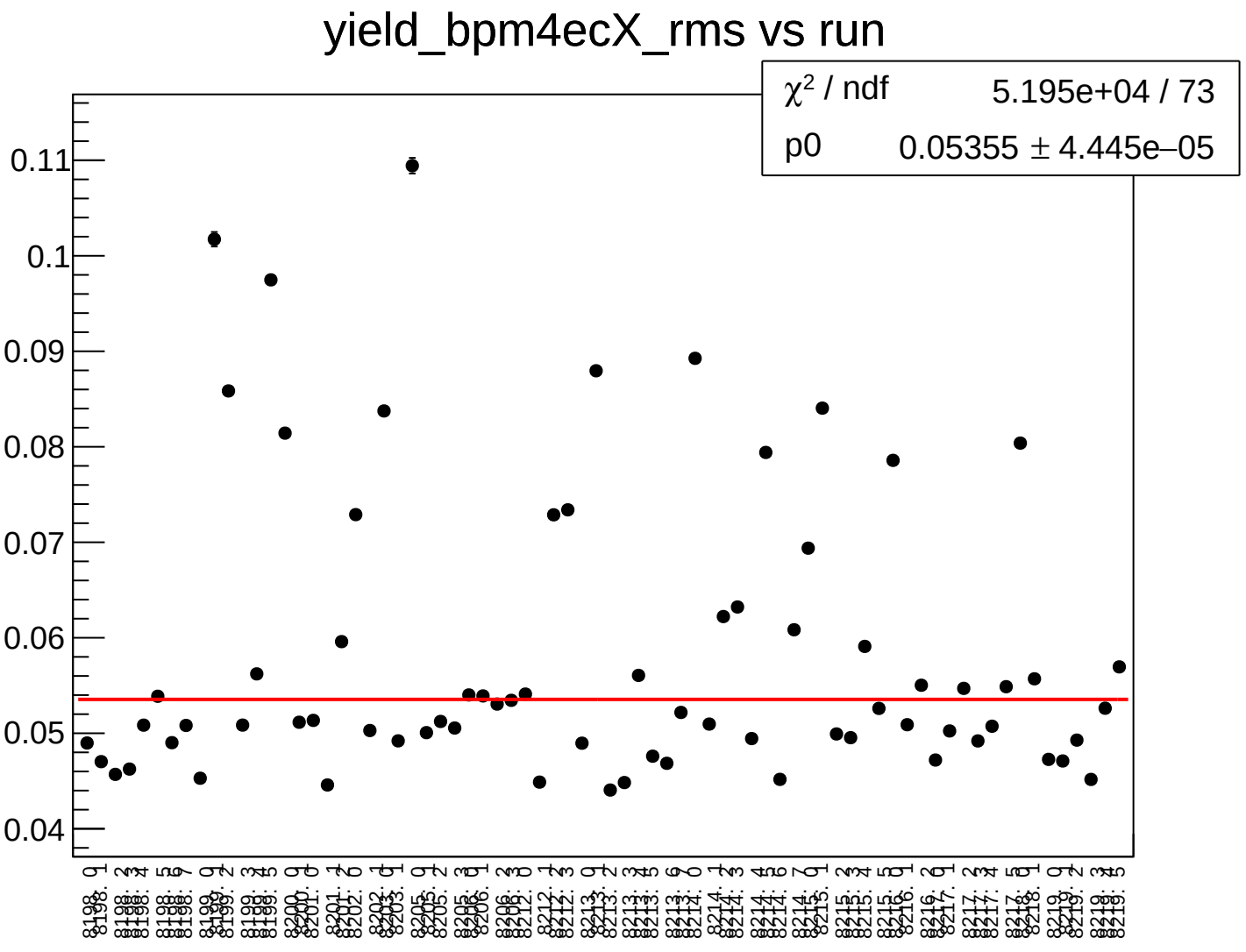

yield_bpm4acX_rms vs run
χ² / ndf 4.842e+04 / 73
p0 0.05495 ± 4.556e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

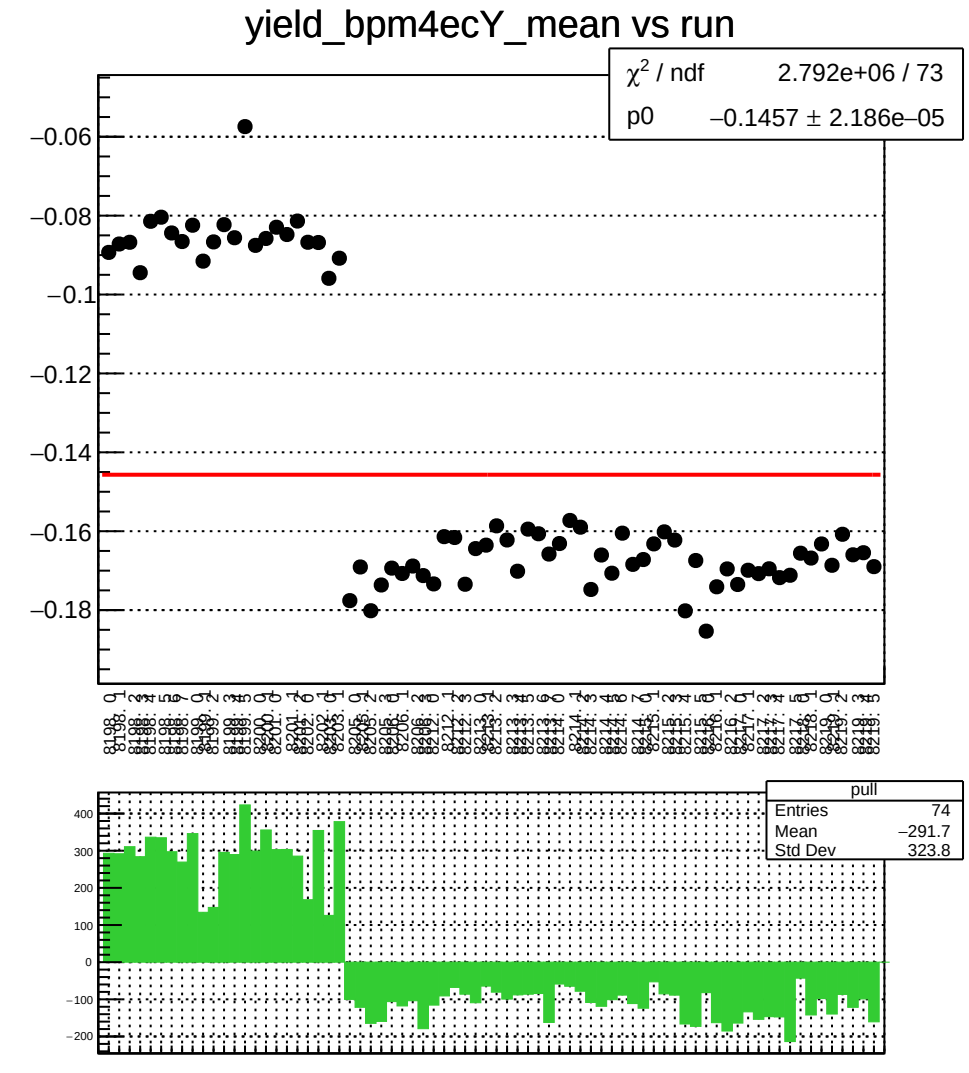

yield_bpm4acY_mean vs run
χ² / ndf 4.201e+06 / 73
p0 0.5393 ± 2.356e−05
pull
Entries 74
Mean −312
Std Dev 344
pull1D
Entries 74
Mean 0
Std Dev 0

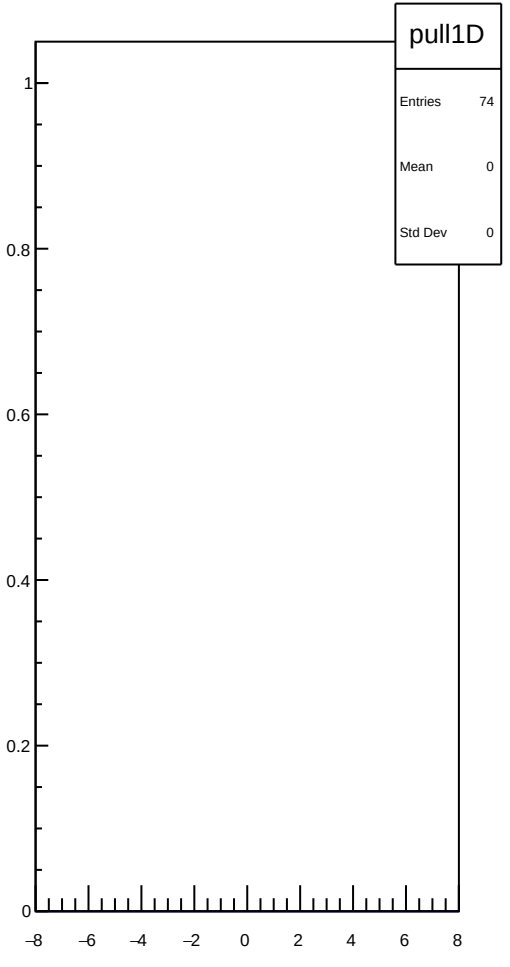

yield_bpm4acY_rms vs run
χ² / ndf 6.502e+04 / 73
p0 0.01998 ± 1.666e−05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

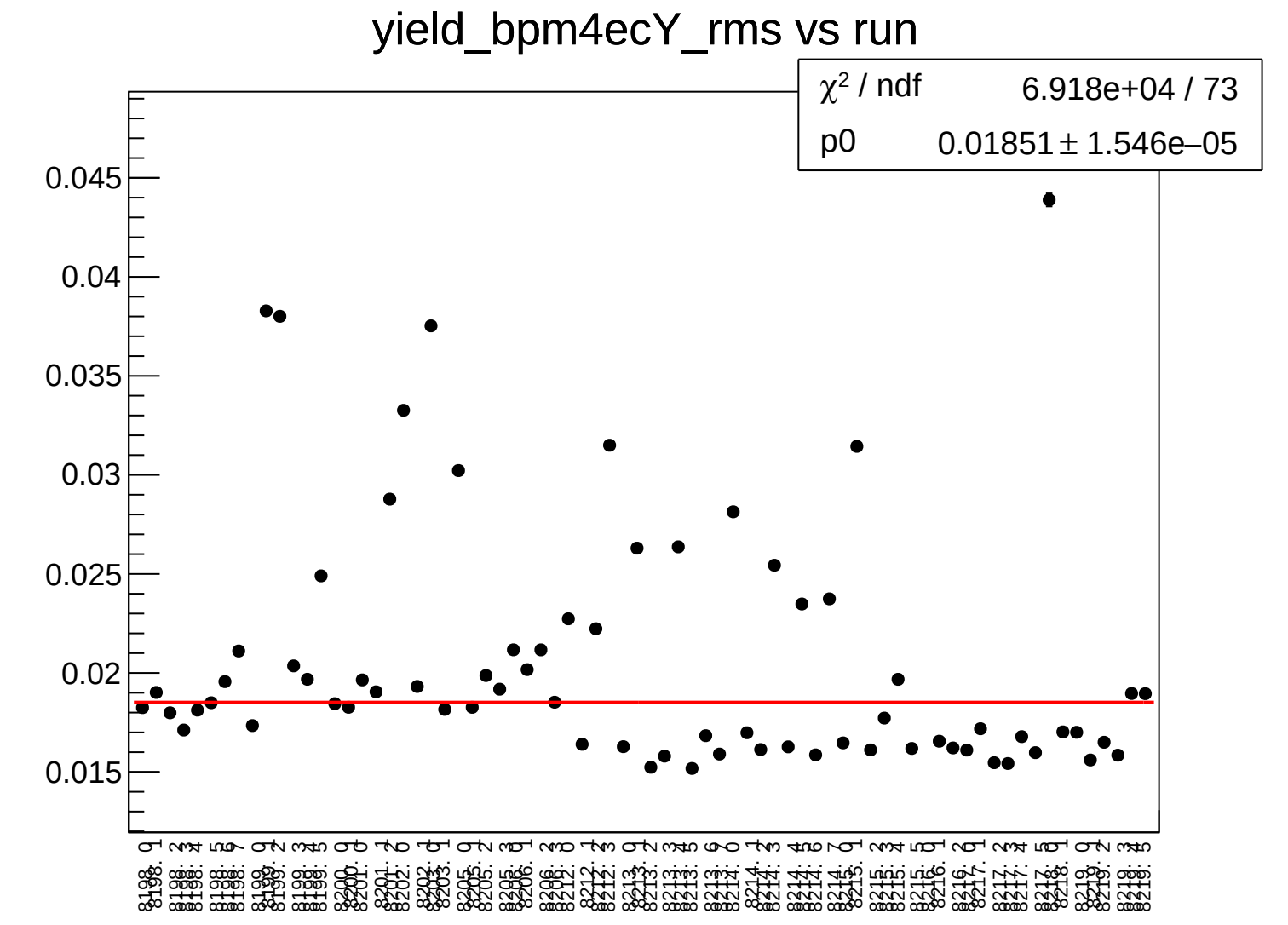

yield_bpm4ecX_mean vs run
χ² / ndf 4.639e+06 / 73
p0 −0.3888 ± 6.286e−05
pull
Entries 74
Mean −2983
Std Dev 3017

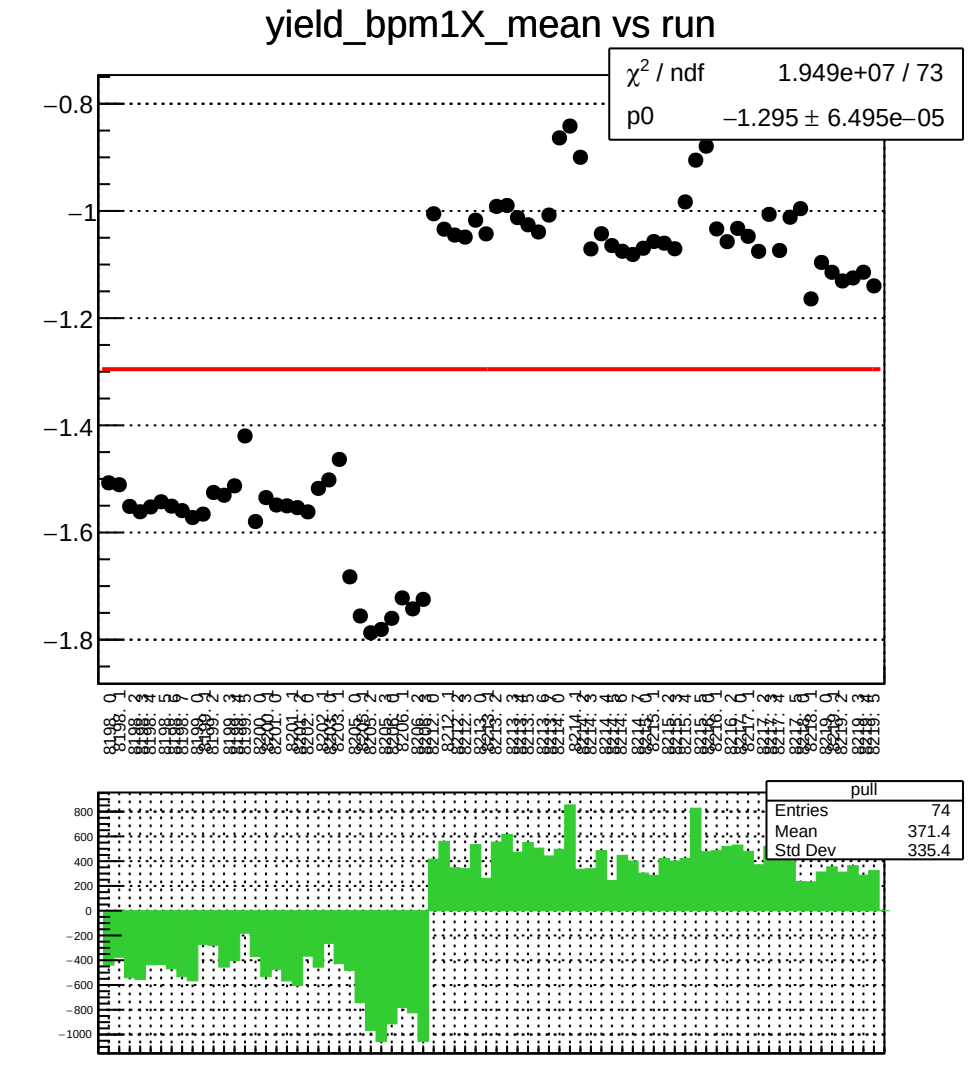

pull1D
Entries 74
Mean 0
Std Dev 0

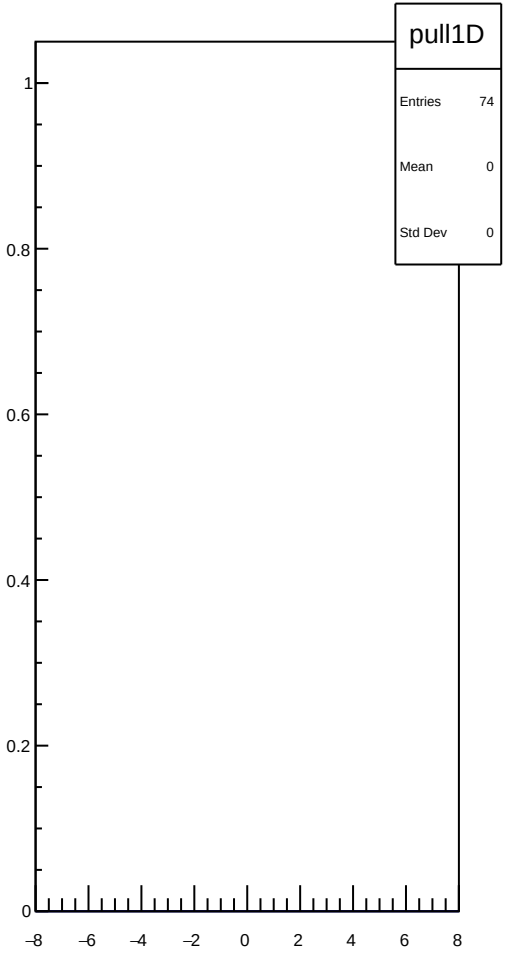

yield_bpm4ecX_rms vs run
χ² / ndf 5.195e+04 / 73
p0 0.05355 ± 4.445e−05
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

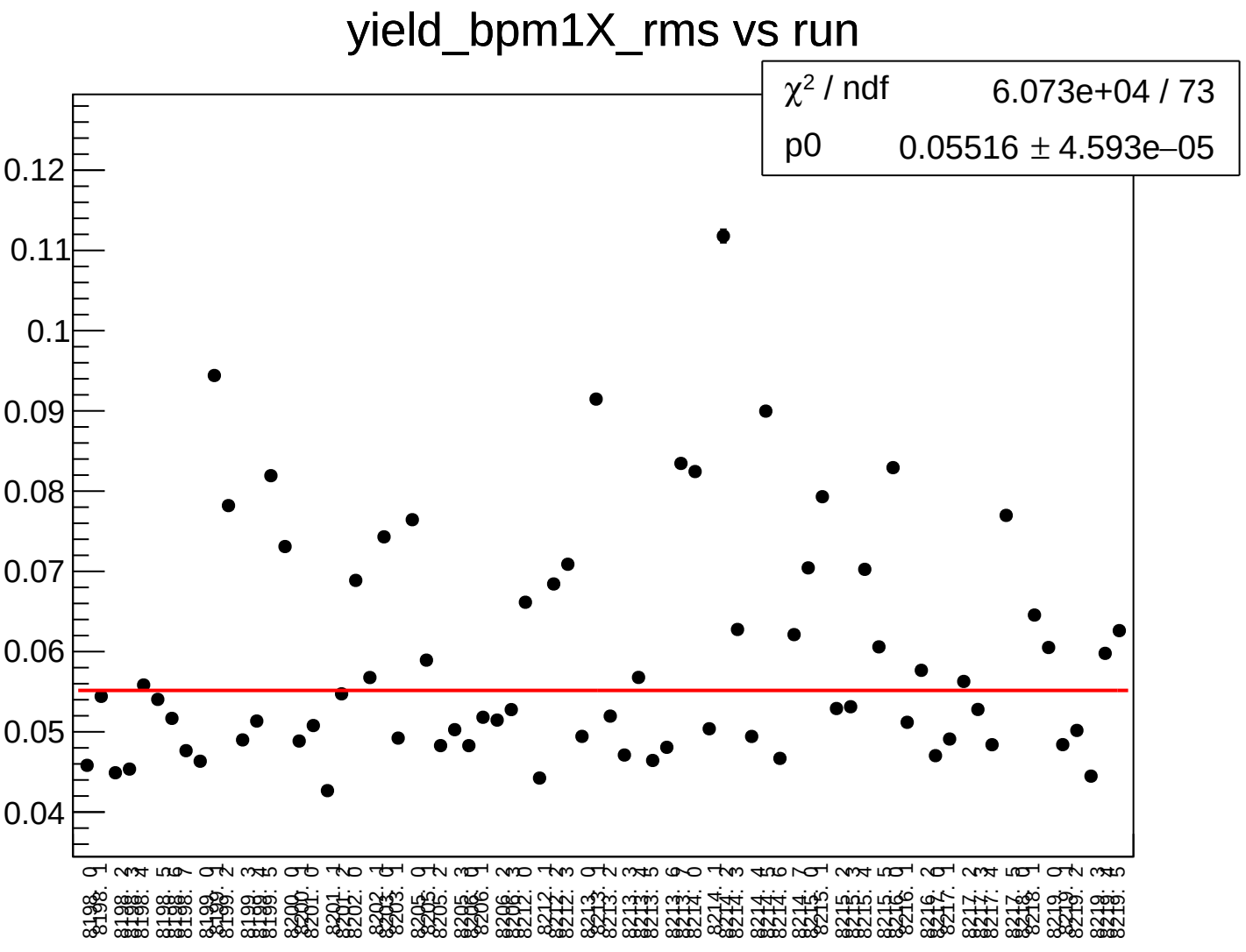

yield_bpm4ecY_mean vs run
χ² / ndf 2.792e+06 / 73
p0 −0.1457 ± 2.186e−05
−0.06
−0.08
−0.1
−0.12
−0.14
−0.16
−0.18
pull
Entries 74
Mean −291.7
Std Dev 323.8
400
300
200
100
0
−100
−200

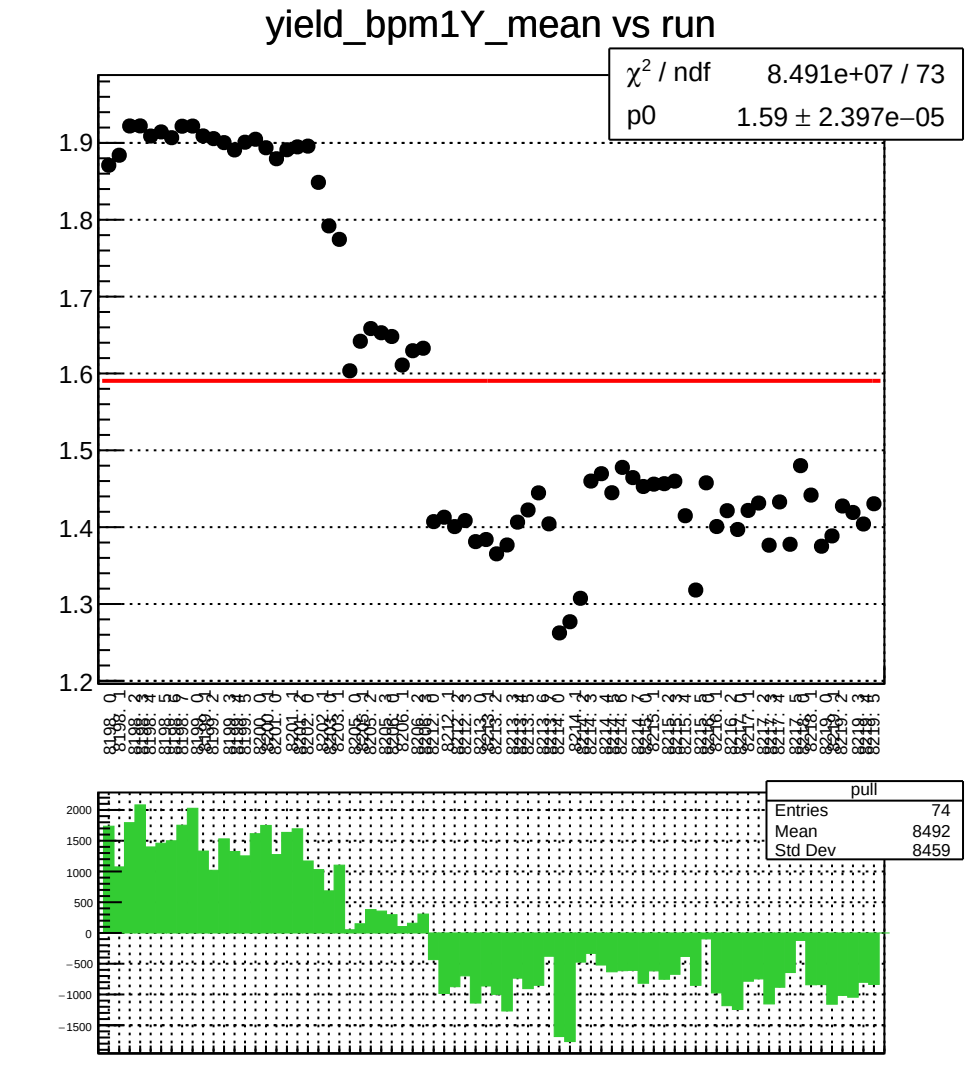

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

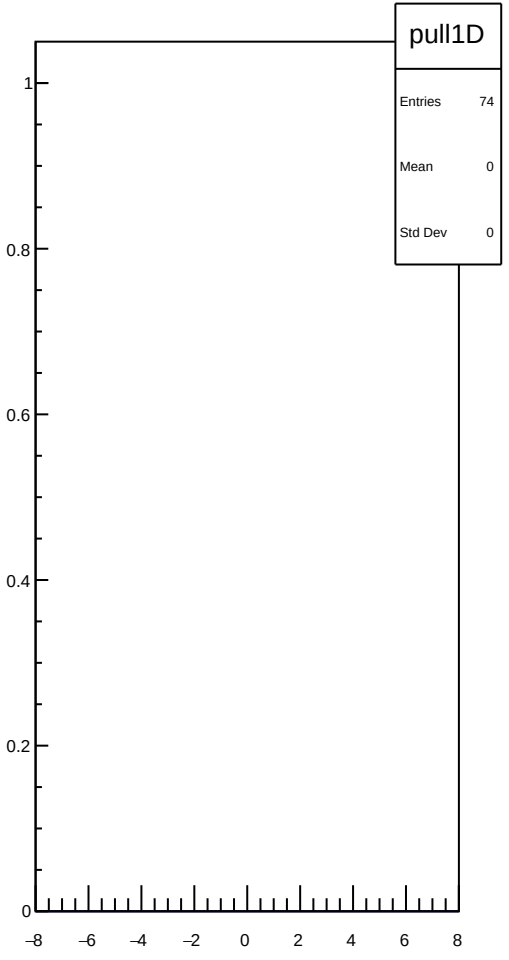

yield_bpm4ecY_rms vs run
χ² / ndf 6.918e+04 / 73
p0 0.01851 ± 1.546e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

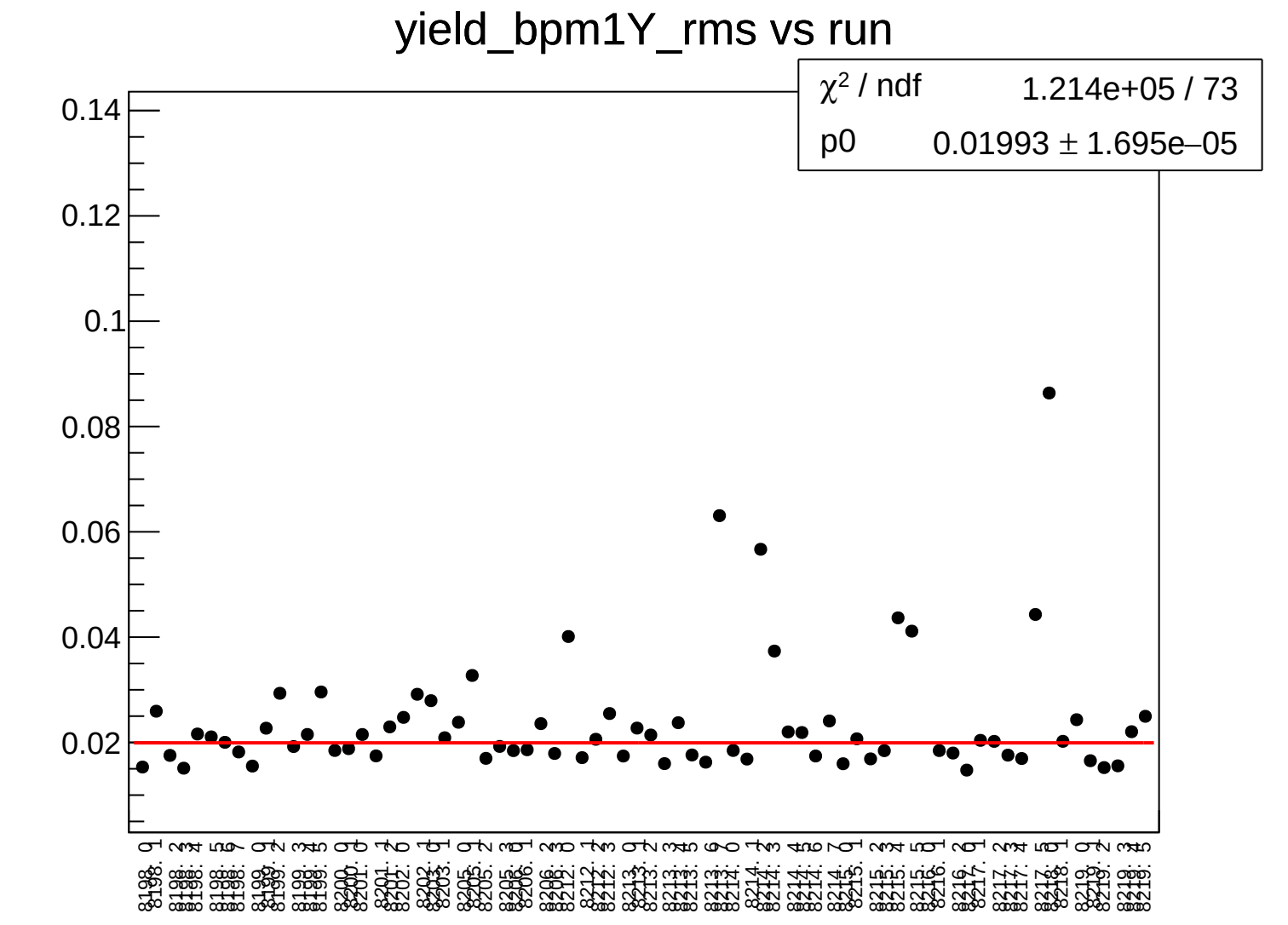

yield_bpm1X_mean vs run
χ² / ndf 1.949e+07 / 73
p0 −1.295 ± 6.495e−05
−0.8
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 74
Mean 371.4
Std Dev 335.4
800
600
400
200
0
−200
−400
−600
−800
−1000

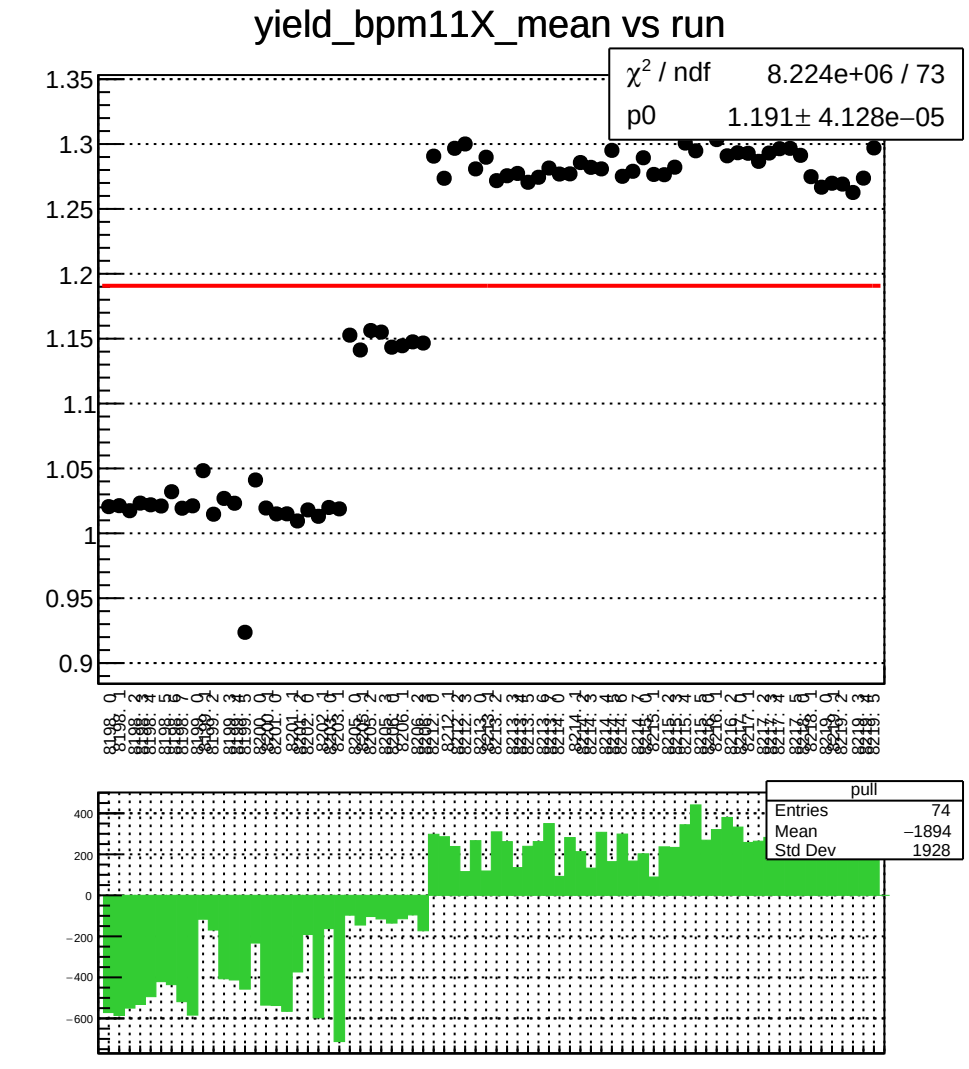

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

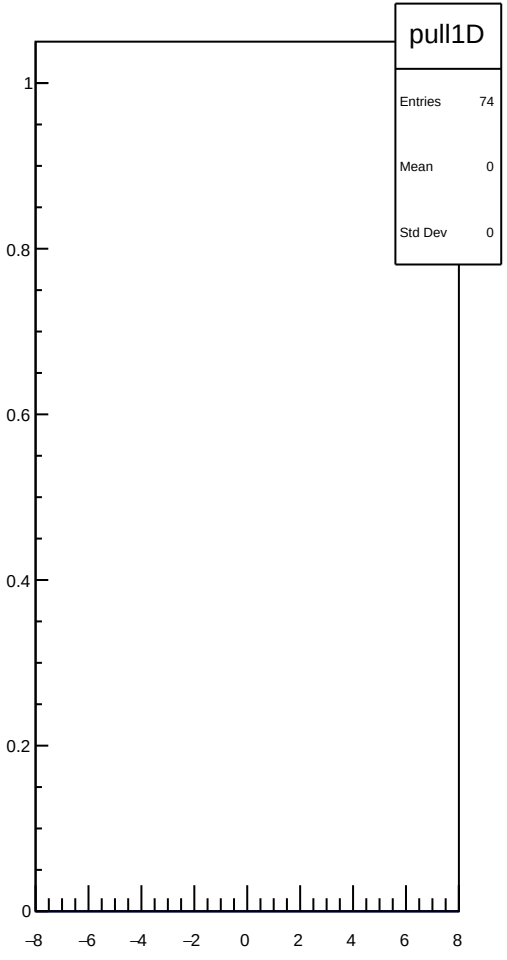

yield_bpm1X_rms vs run
χ² / ndf 6.073e+04 / 73
p0 0.05516 ± 4.593e–05
0.12
0.11
0.1
0.09
0.08
0.07
0.06
0.05
0.04

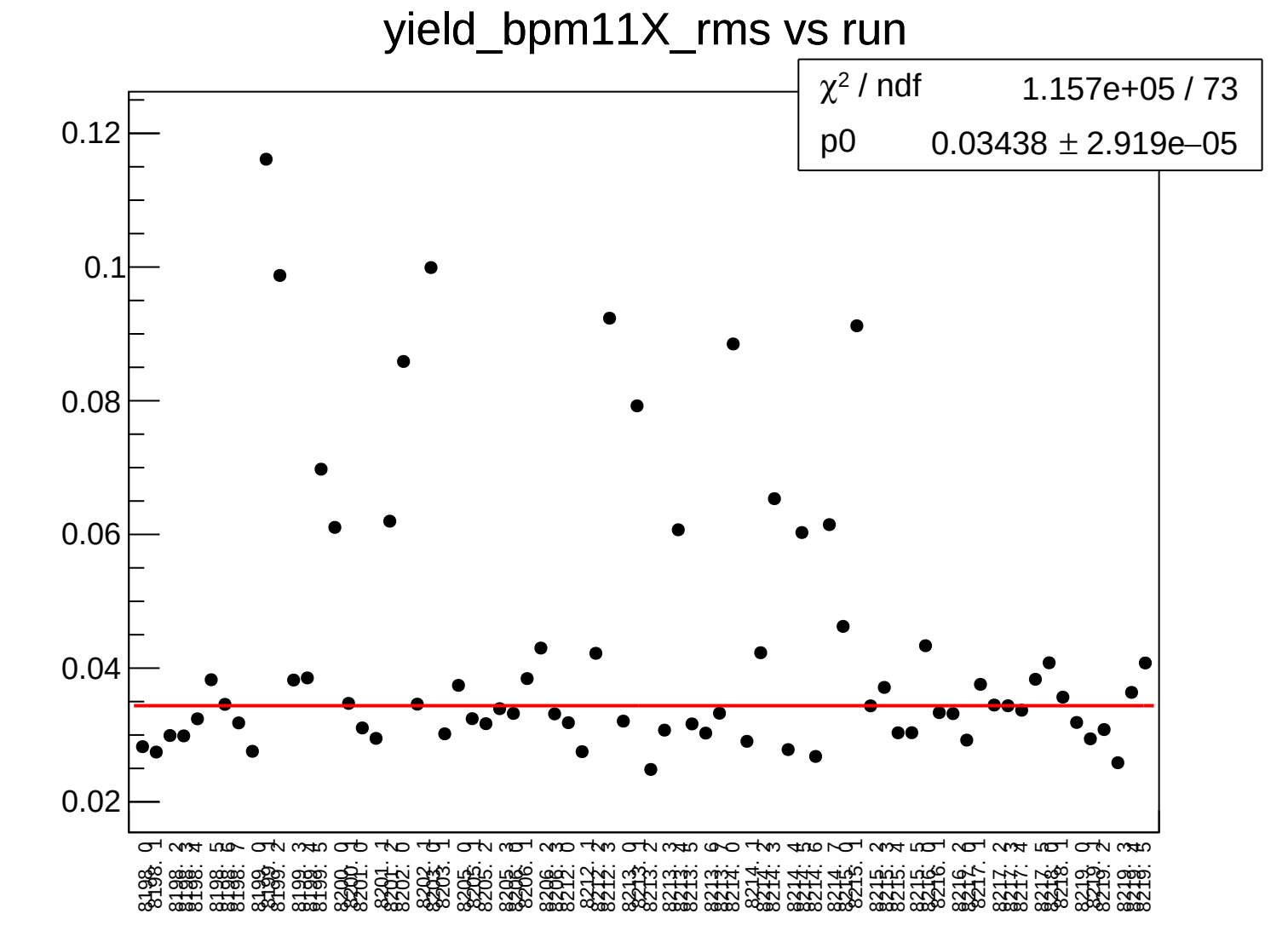

yield_bpm1Y_mean vs run
χ² / ndf 8.491e+07 / 73
p0 1.59 ± 2.397e−05
pull
Entries 74
Mean 8492
Std Dev 8459

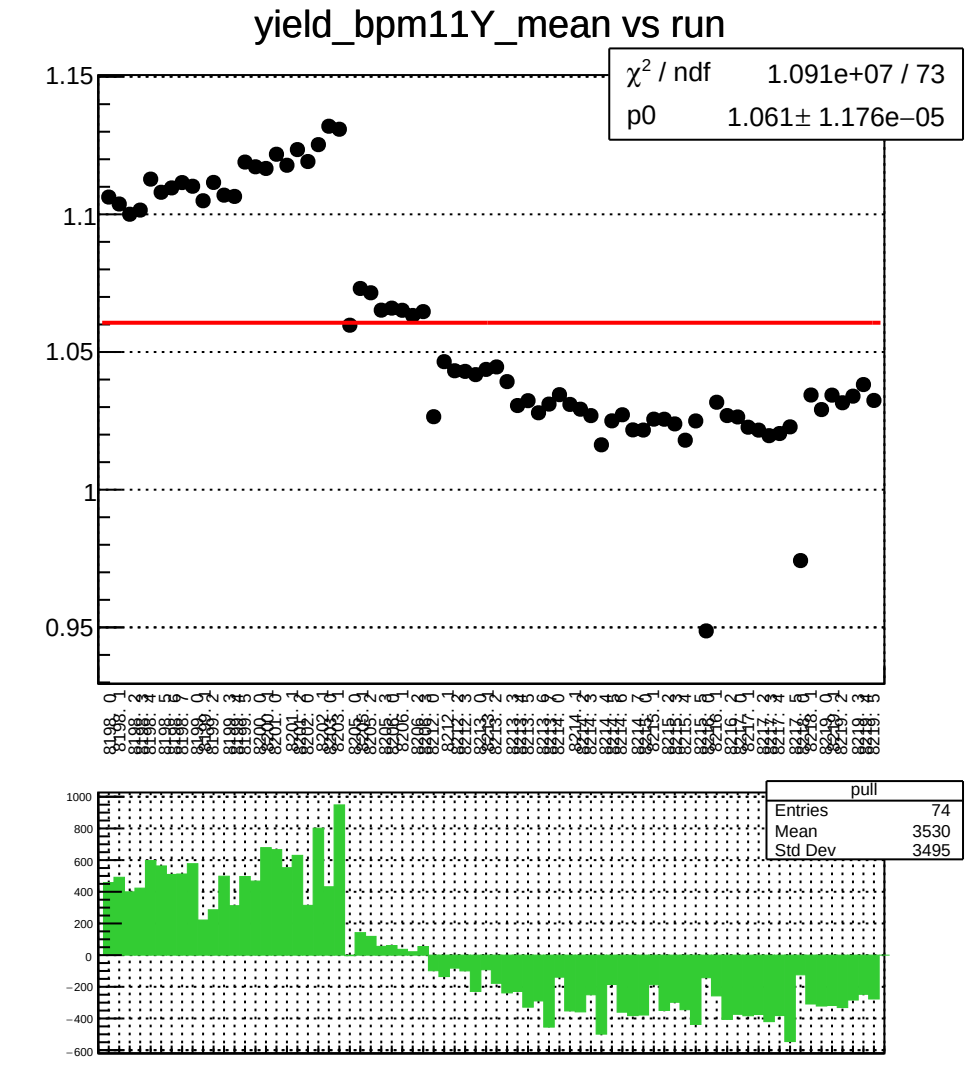

pull1D
Entries 74
Mean 0
Std Dev 0

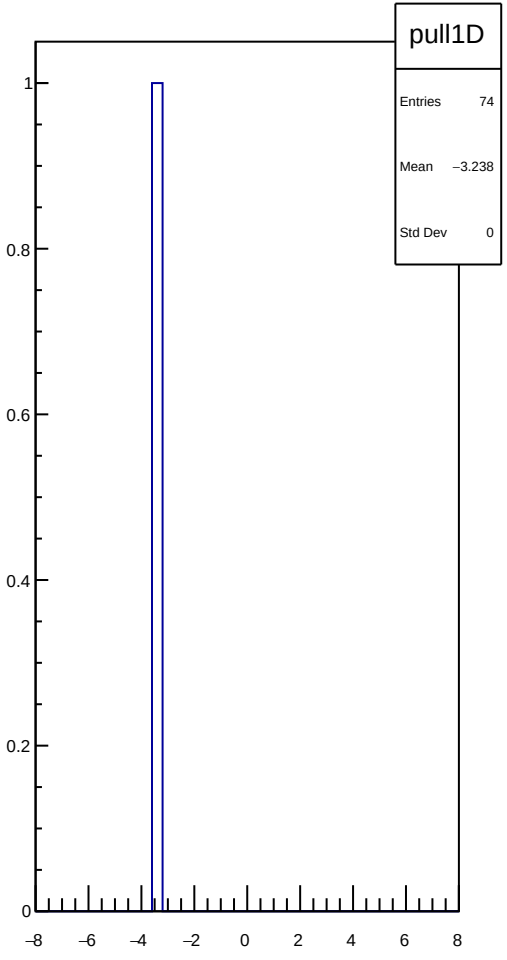

yield_bpm1Y_rms vs run
χ² / ndf 1.214e+05 / 73
p0 0.01993 ± 1.695e−05
0.14
0.12
0.1
0.08
0.06
0.04
0.02

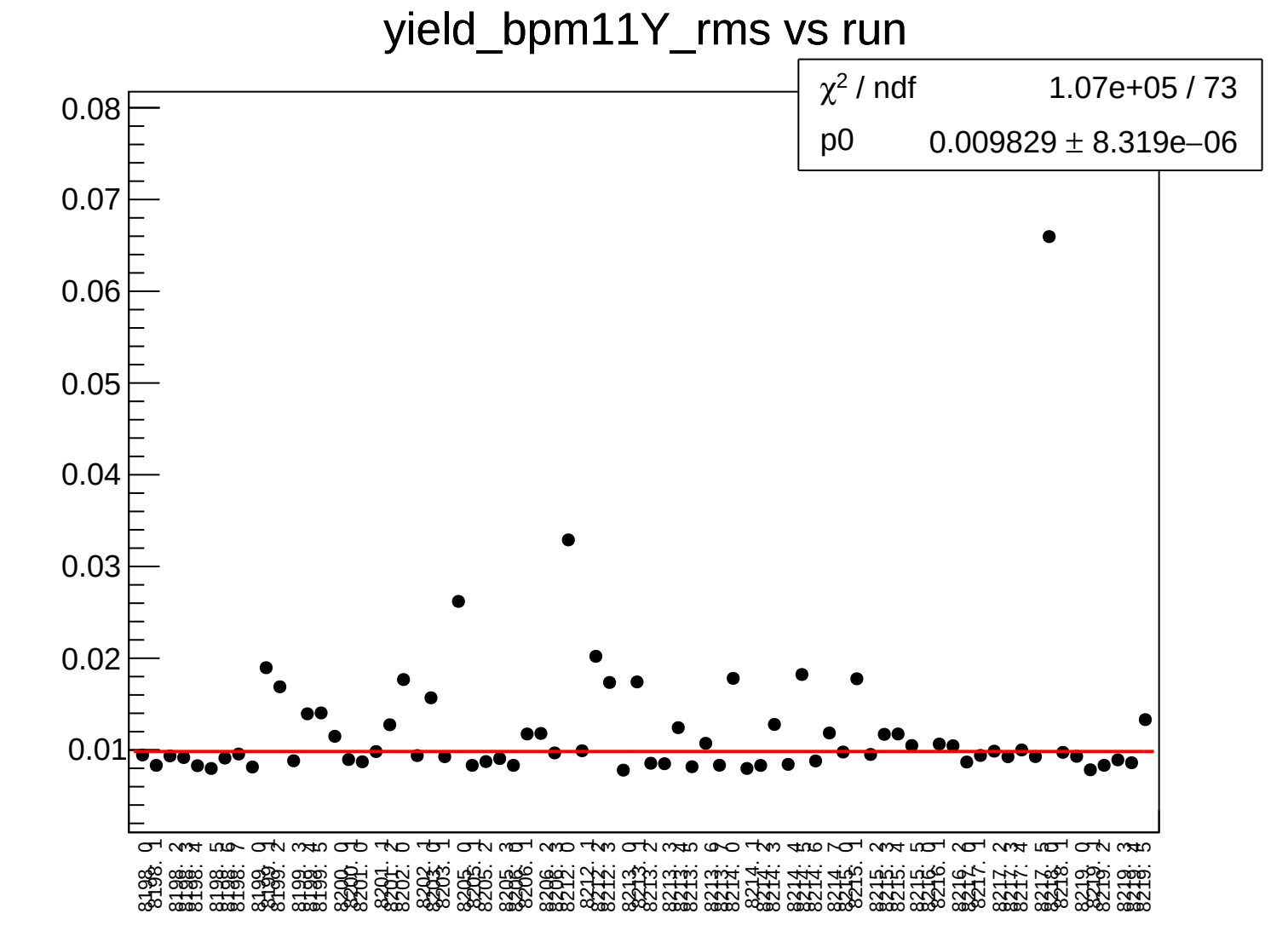

yield_bpm11X_mean vs run
χ² / ndf 8.224e+06 / 73
p0 1.191± 4.128e−05
pull
Entries 74
Mean −1894
Std Dev 1928

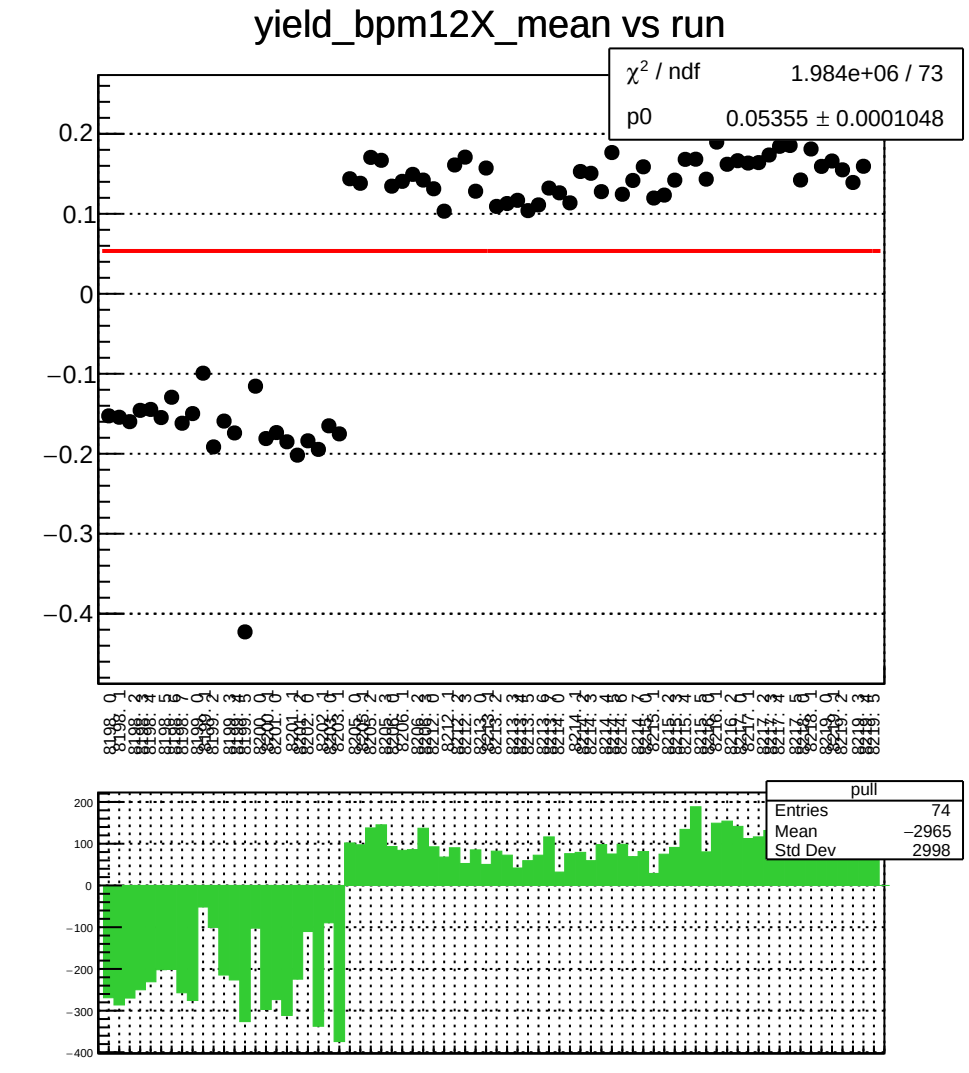

pull1D
Entries 74
Mean 0
Std Dev 0

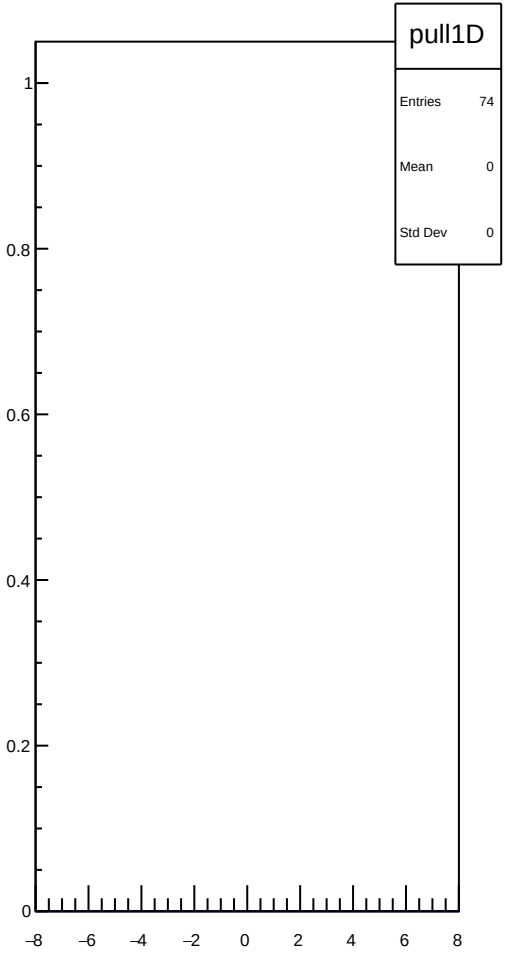

yield_bpm11X_rms vs run
χ² / ndf 1.157e+05 / 73
p0 0.03438 ± 2.919e–05
0.12
0.1
0.08
0.06
0.04
0.02

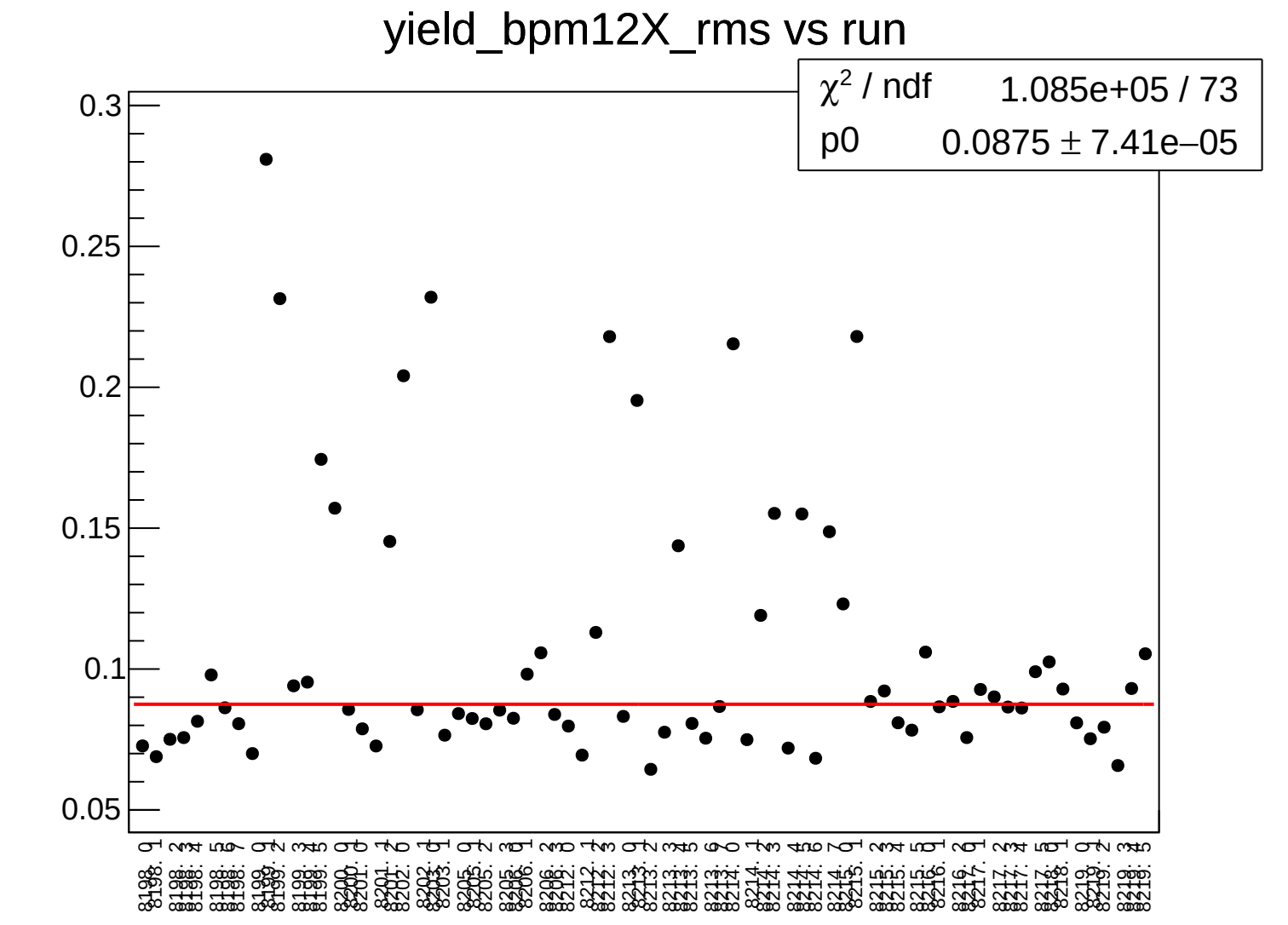

yield_bpm11Y_mean vs run
χ² / ndf 1.091e+07 / 73
p0 1.061± 1.176e−05
1.15
1.1
1.05
1
0.95
pull
Entries 74
Mean 3530
Std Dev 3495
1000
800
600
400
200
0
−200
−400
−600

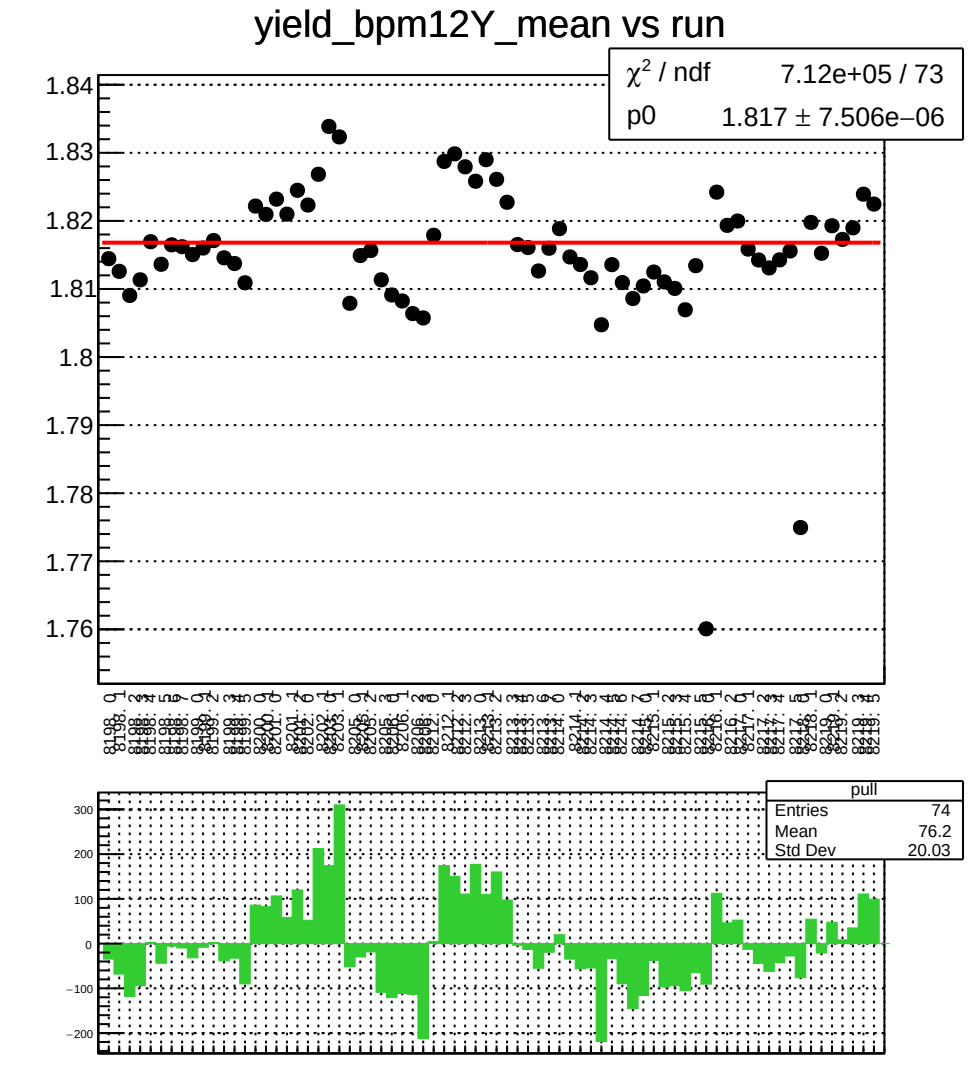

pull1D
Entries 74
Mean −3.238
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

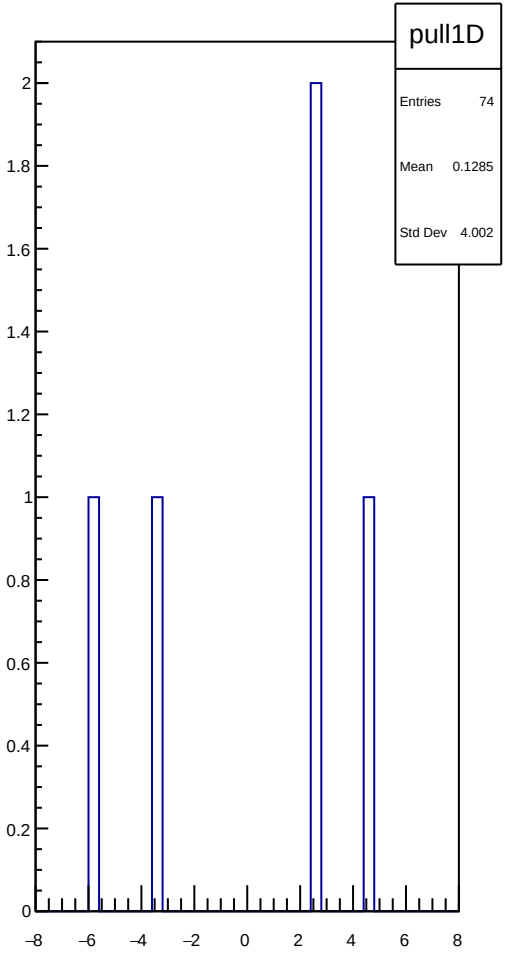

yield_bpm11Y_rms vs run
χ² / ndf 1.07e+05 / 73
p0 0.009829 ± 8.319e−06
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

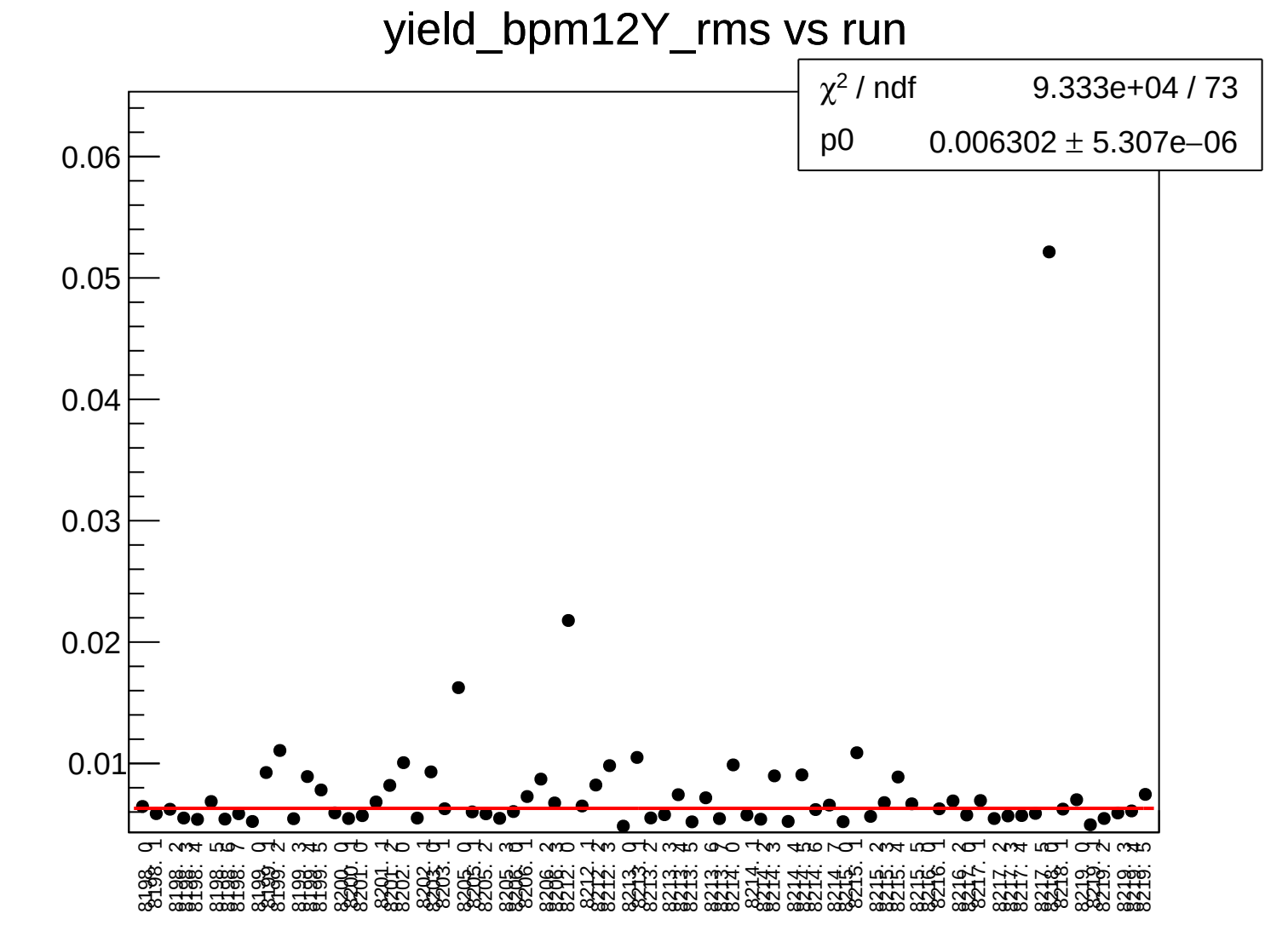

yield_bpm12X_mean vs run
χ² / ndf 1.984e+06 / 73
p0 0.05355 ± 0.0001048
0.2
0.1
0
−0.1
−0.2
−0.3
−0.4
pull
Entries 74
Mean −2965
Std Dev 2998
200
100
0
−100
−200
−300
−400

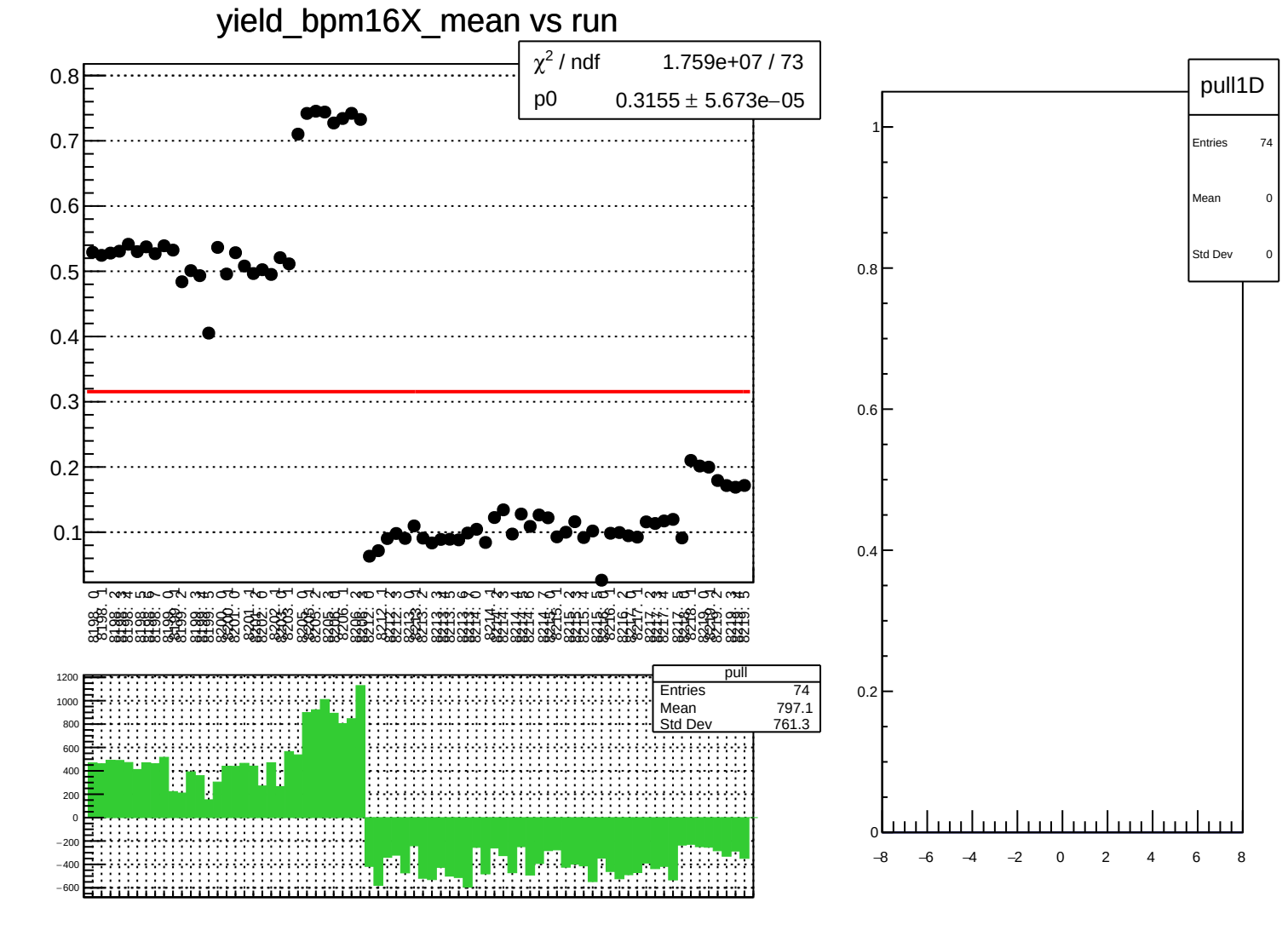

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

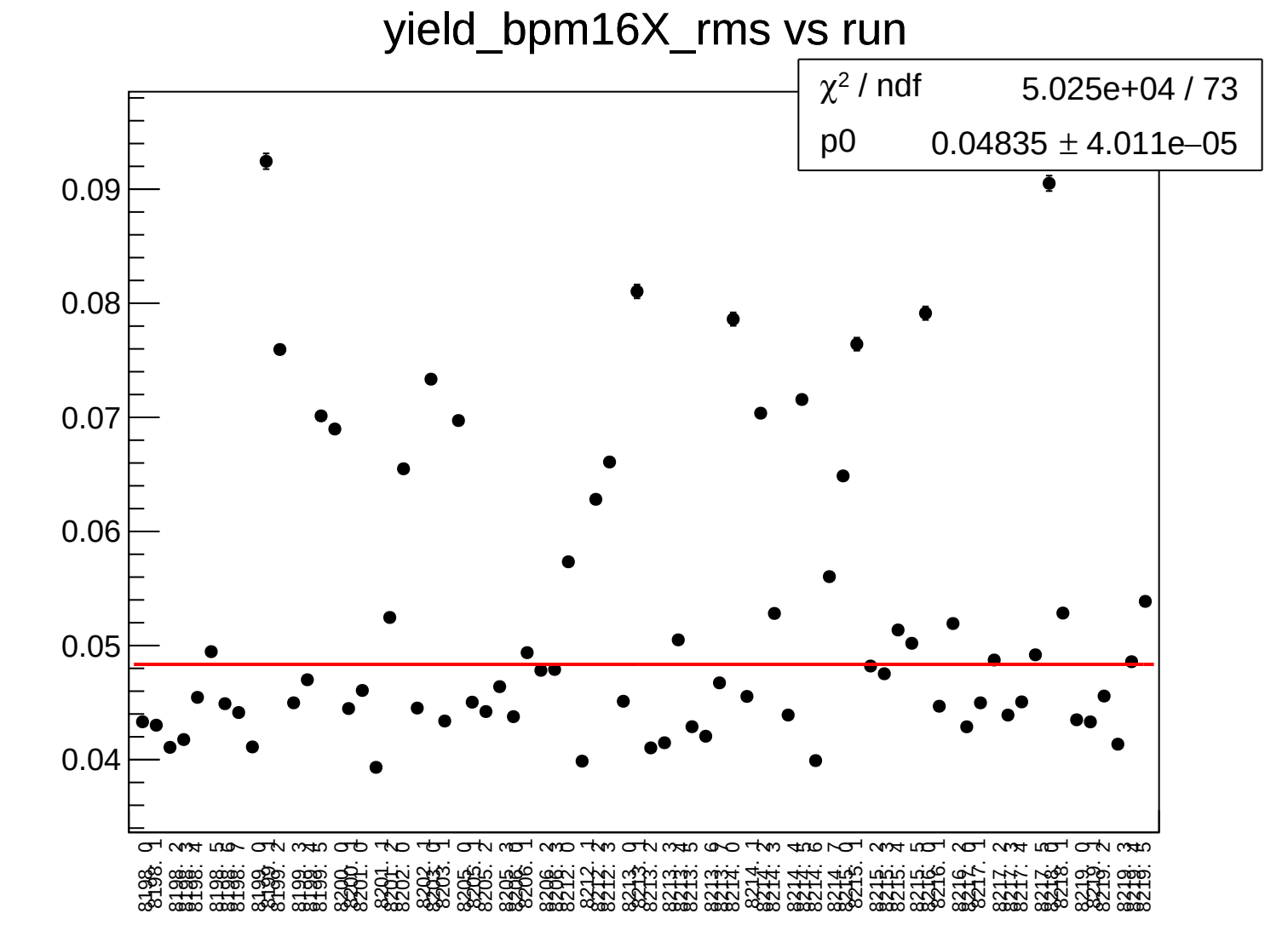

yield_bpm12X_rms vs run
χ² / ndf 1.085e+05 / 73
p0 0.0875 ± 7.41e−05
0.3
0.25
0.2
0.15
0.1
0.05

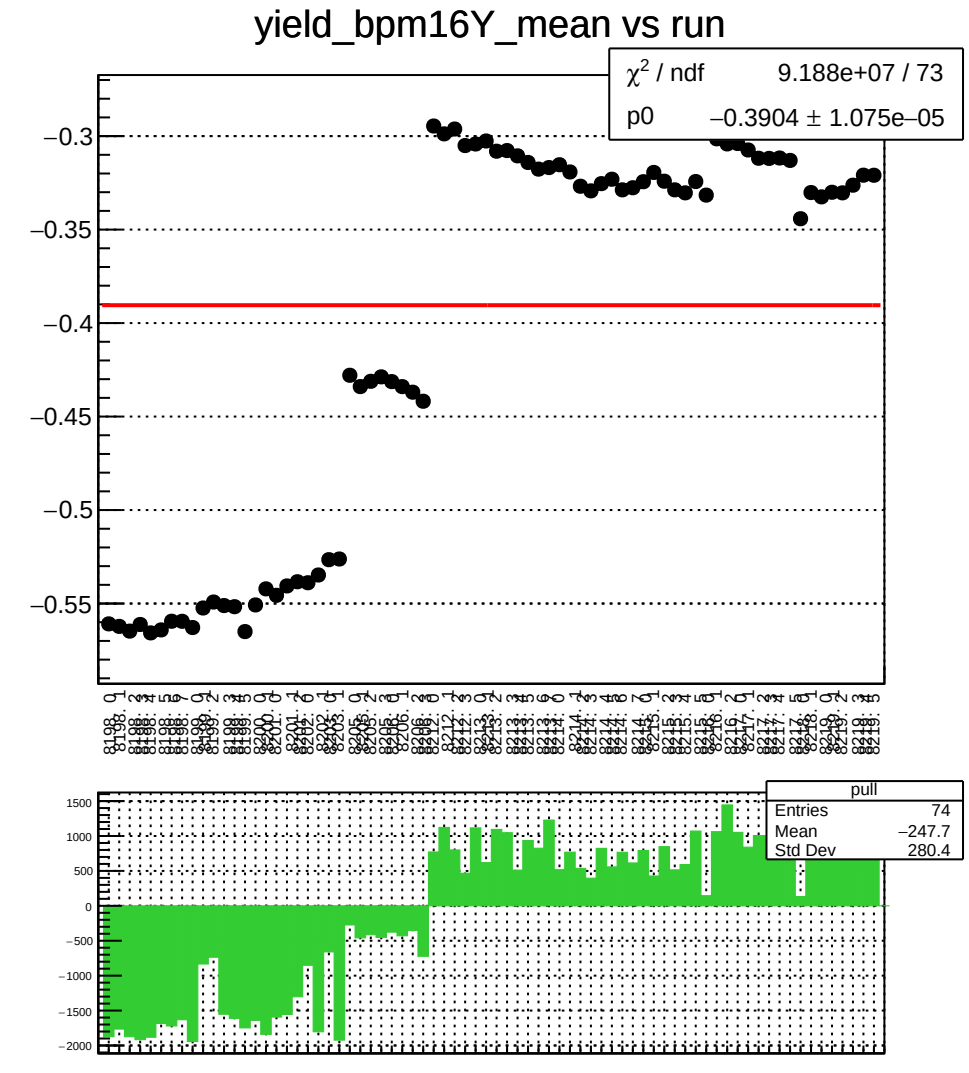

yield_bpm12Y_mean vs run
χ² / ndf 7.12e+05 / 73
p0 1.817 ± 7.506e−06
pull
Entries 74
Mean 76.2
Std Dev 20.03

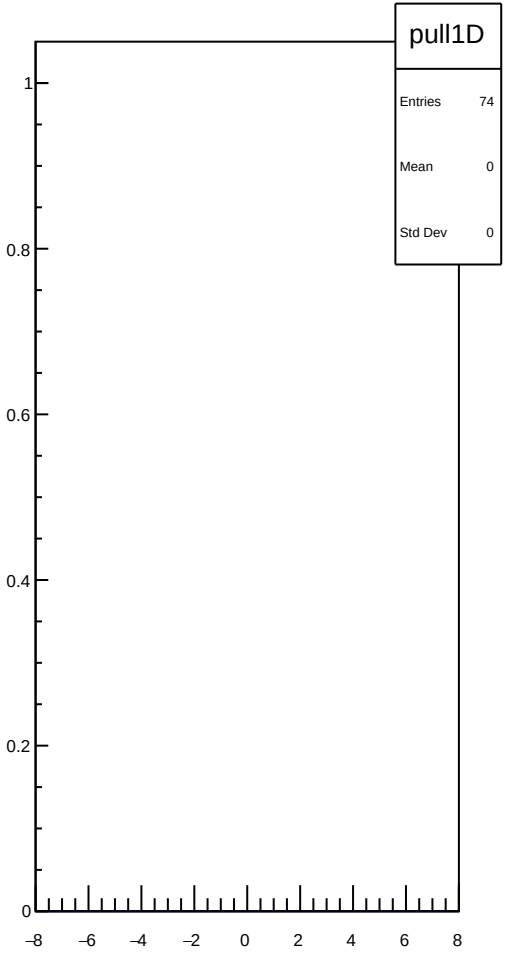

pull1D
Entries 74
Mean 0.1285
Std Dev 4.002

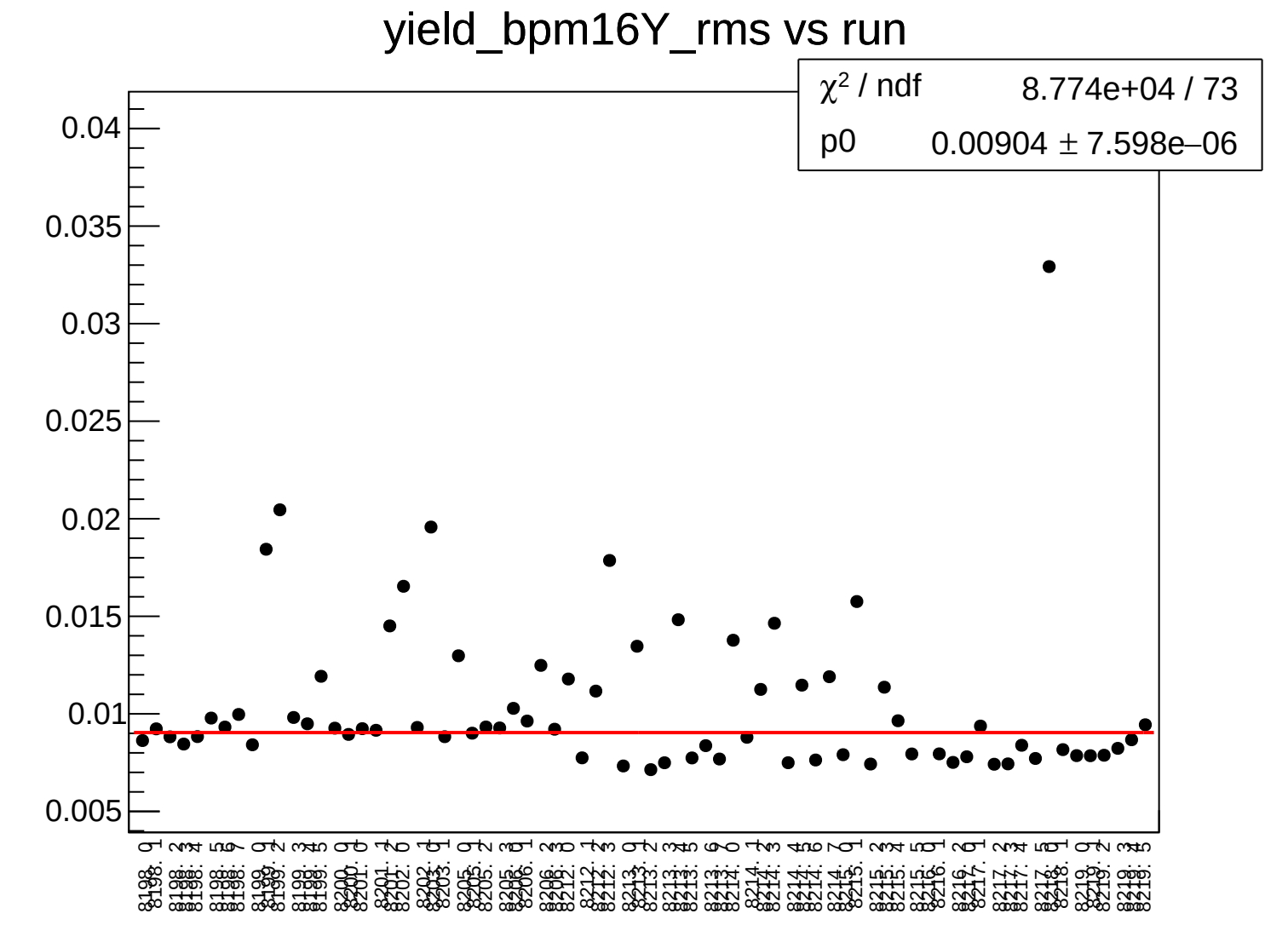

yield_bpm12Y_rms vs run
χ² / ndf 9.333e+04 / 73
p0 0.006302 ± 5.307e−06
0.06
0.05
0.04
0.03
0.02
0.01

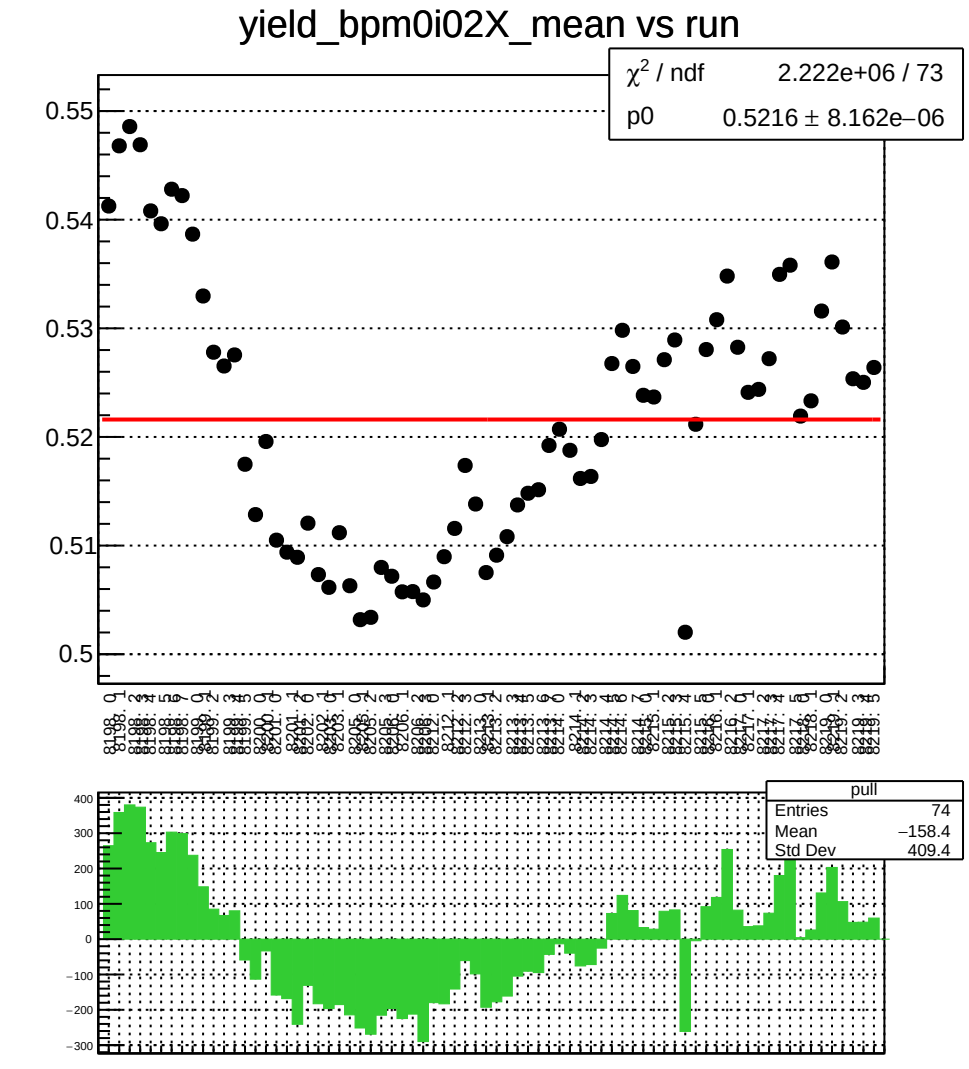

yield_bpm16X_mean vs run
χ² / ndf 1.759e+07 / 73
p0 0.3155 ± 5.673e−05
pull
Entries 74
Mean 797.1
Std Dev 761.3
pull1D
Entries 74
Mean 0
Std Dev 0

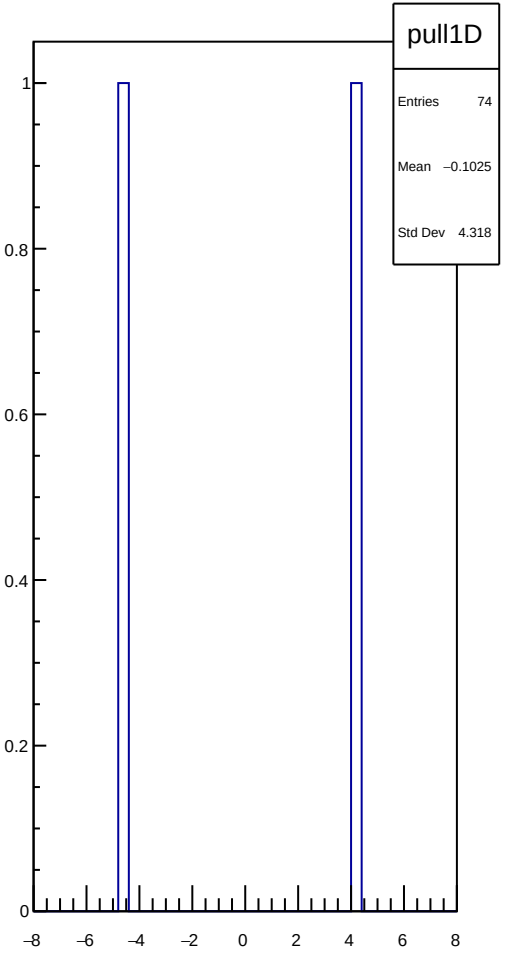

yield_bpm16X_rms vs run
χ² / ndf 5.025e+04 / 73
p0 0.04835 ± 4.011e–05
0.09
0.08
0.07
0.06
0.05
0.04

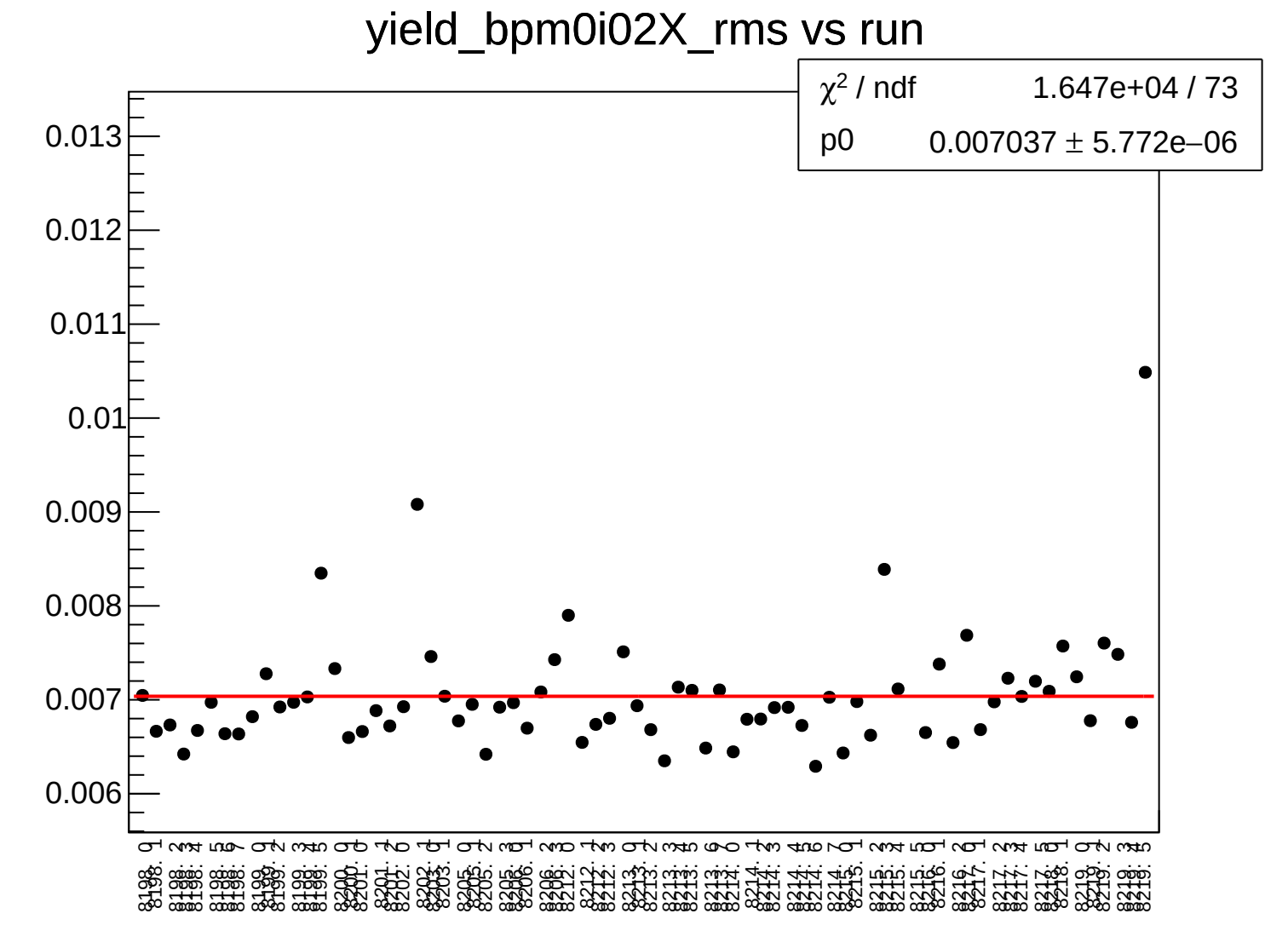

yield_bpm16Y_mean vs run
χ² / ndf 9.188e+07 / 73
p0 −0.3904 ± 1.075e−05
−0.3
−0.35
−0.4
−0.45
−0.5
−0.55
pull
Entries 74
Mean −247.7
Std Dev 280.4
1500
1000
500
0
−500
−1000
−1500
−2000

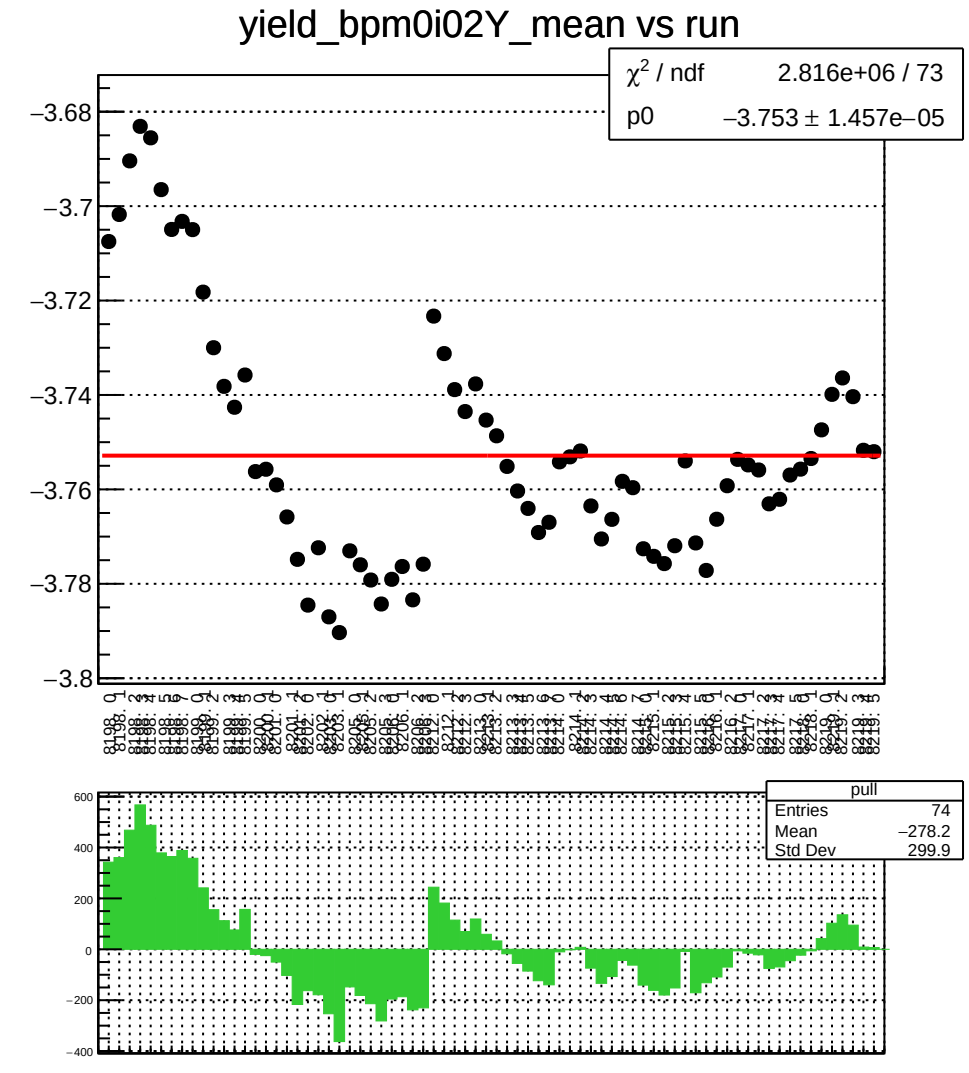

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

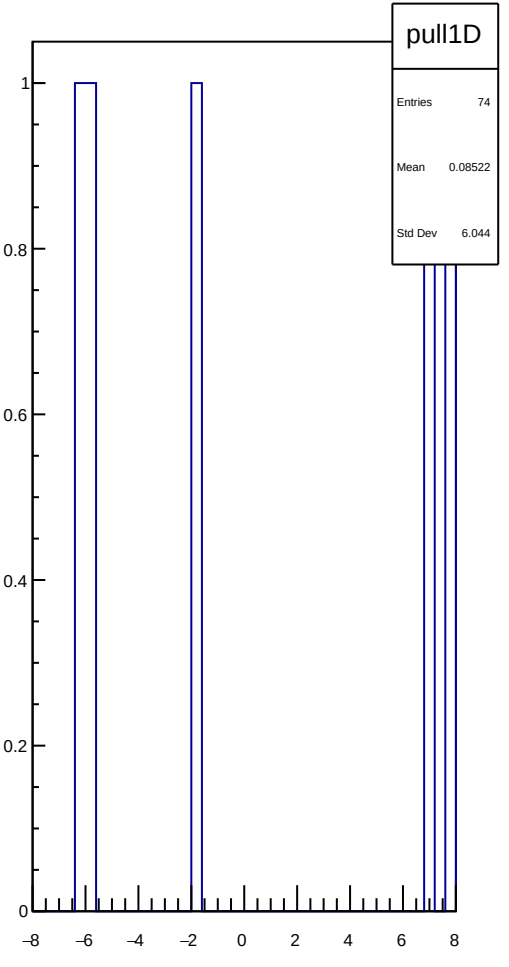

yield_bpm16Y_rms vs run
χ² / ndf 8.774e+04 / 73
p0 0.00904 ± 7.598e–06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

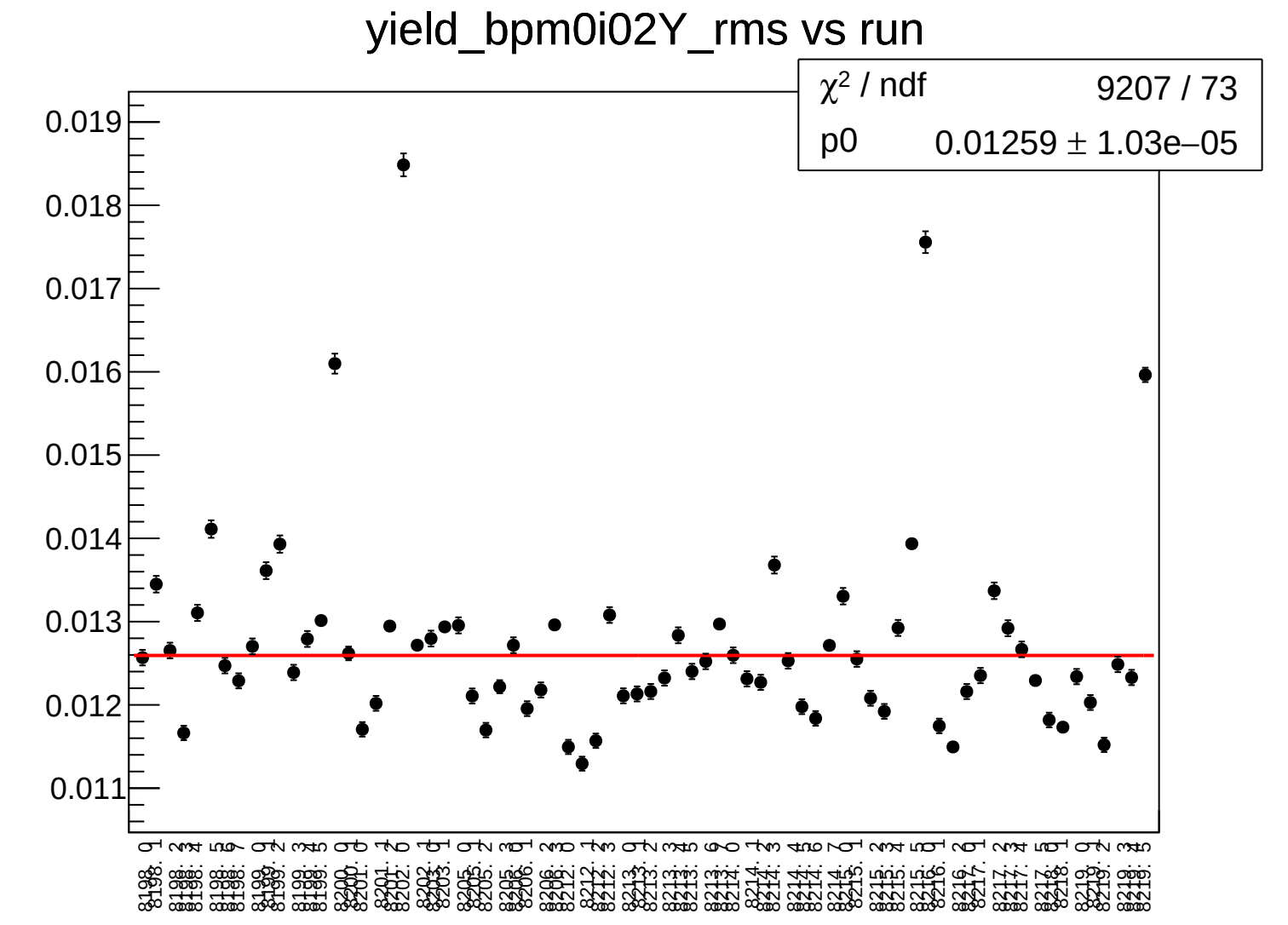

yield_bpm0i02X_mean vs run
χ² / ndf 2.222e+06 / 73
p0 0.5216 ± 8.162e−06
0.55
0.54
0.53
0.52
0.51
0.5
pull
Entries 74
Mean −158.4
Std Dev 409.4
400
300
200
100
0
−100
−200
−300

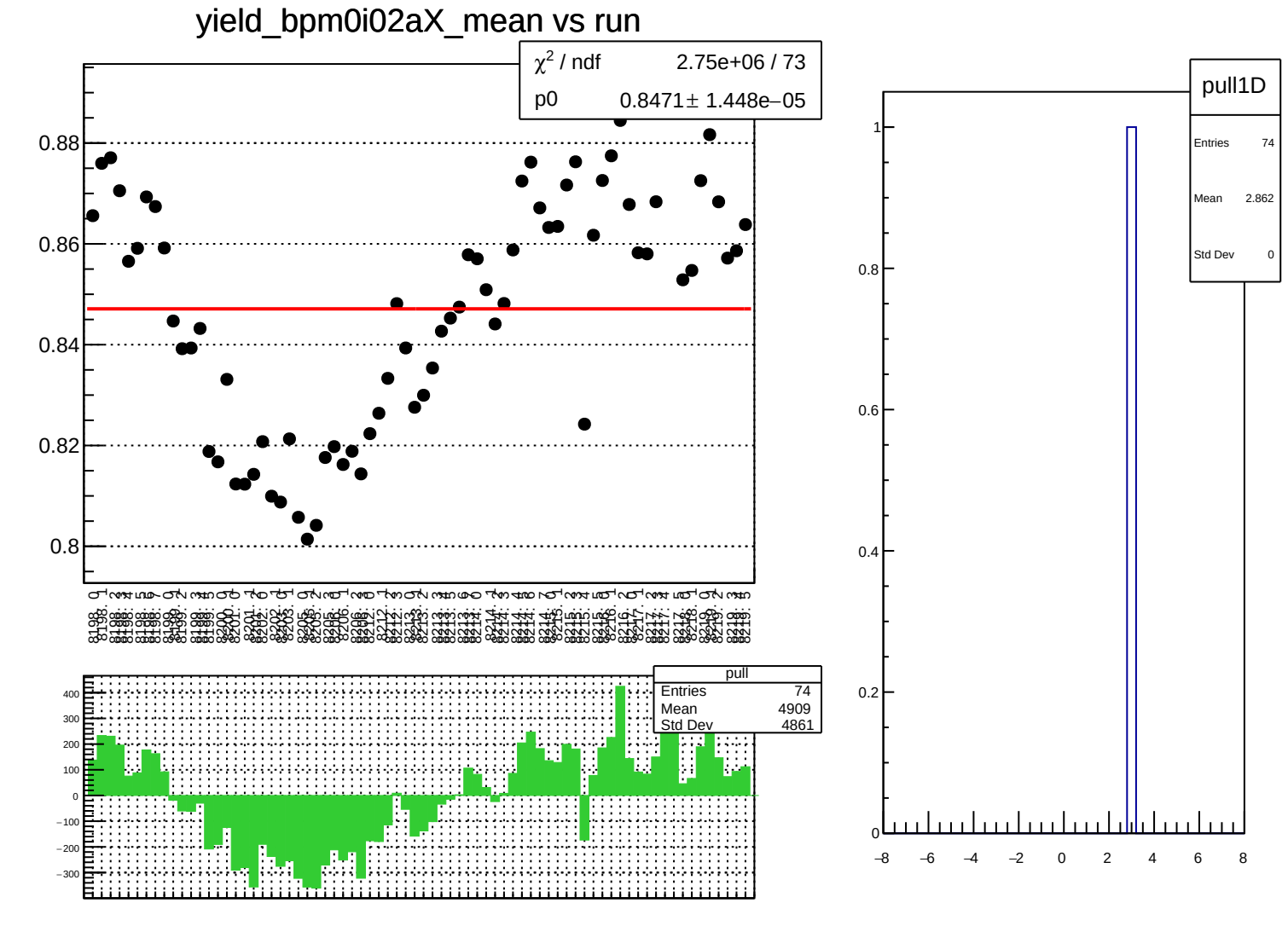

pull1D
Entries 74
Mean −0.1025
Std Dev 4.318
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

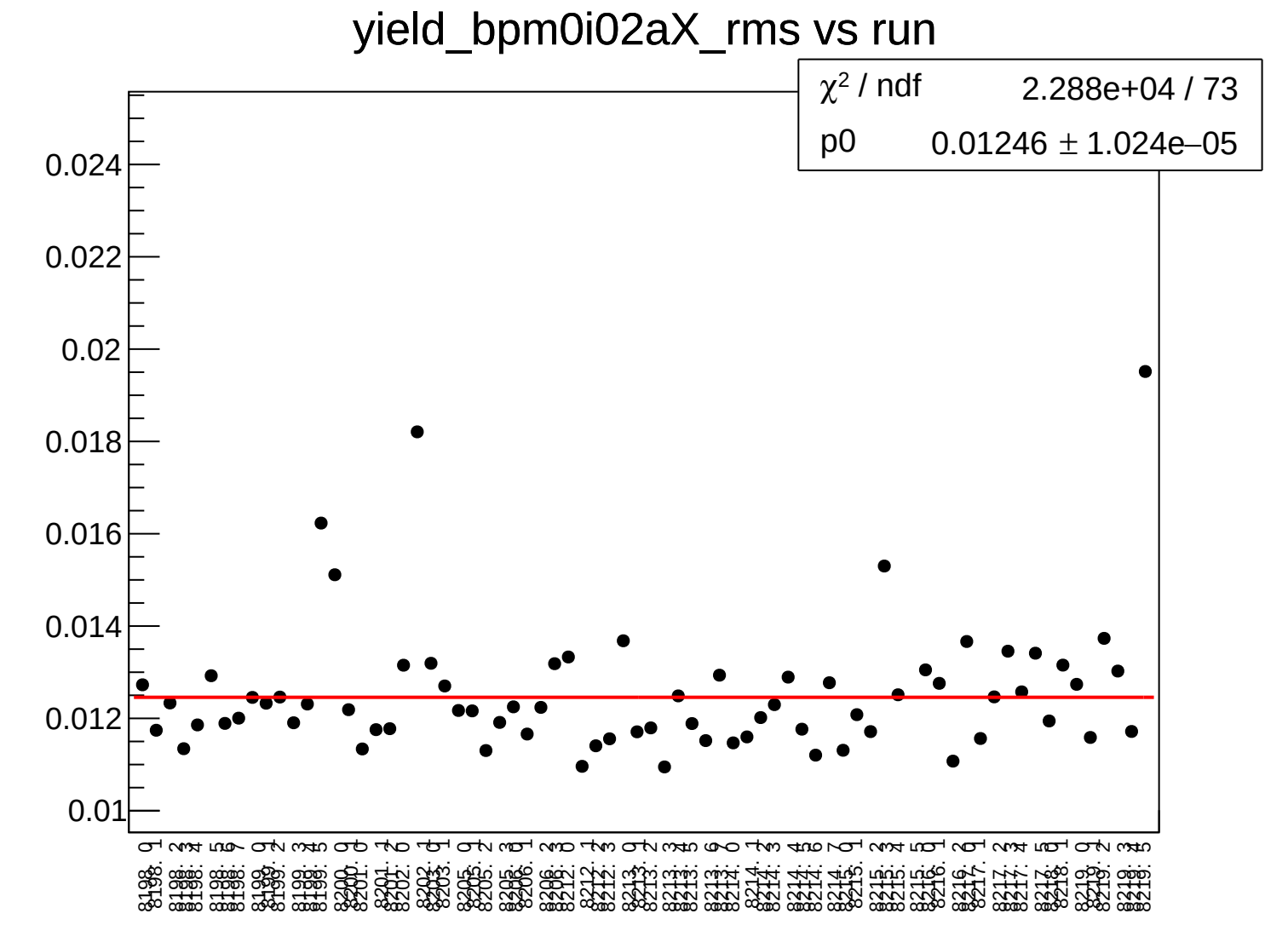

yield_bpm0i02X_rms vs run
χ^2 / ndf 1.647e+04 / 73
p0 0.007037 ± 5.772e−06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006

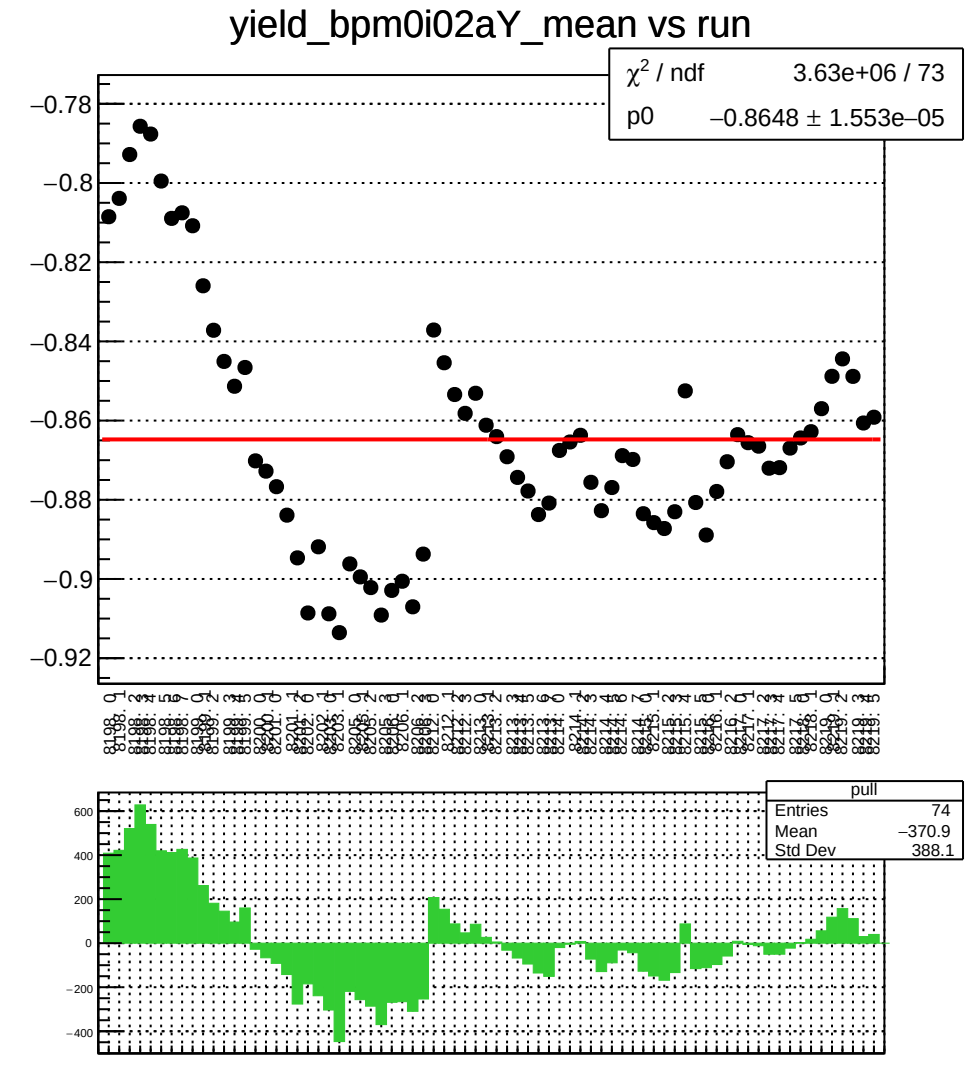

yield_bpm0i02Y_mean vs run
χ² / ndf 2.816e+06 / 73
p0 −3.753 ± 1.457e−05
−3.68
−3.7
−3.72
−3.74
−3.76
−3.78
−3.8
pull
Entries 74
Mean −278.2
Std Dev 299.9
600
400
200
0
−200
−400

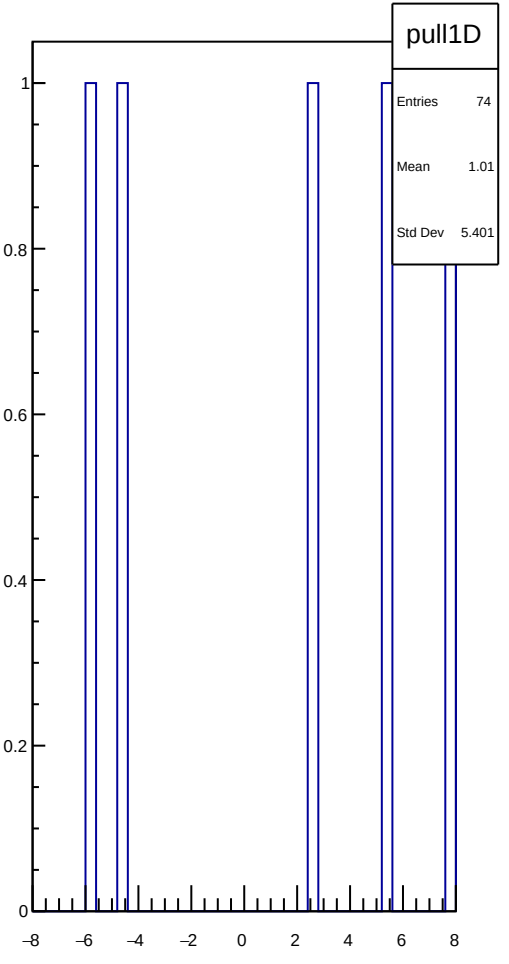

pull1D
Entries 74
Mean 0.08522
Std Dev 6.044
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

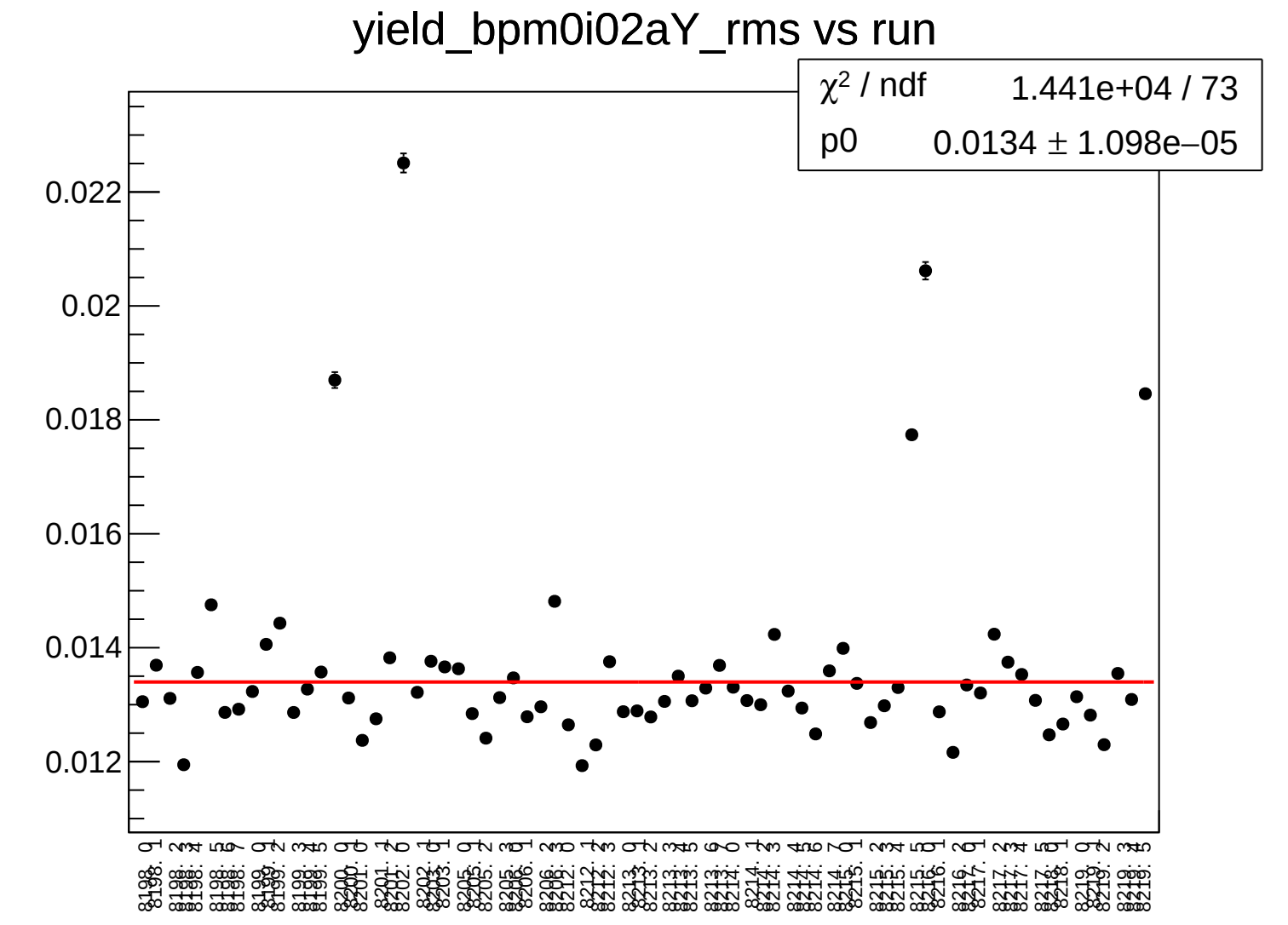

yield_bpm0i02Y_rms vs run
χ² / ndf 9207 / 73
p0 0.01259 ± 1.03e−05
0.019
0.018
0.017
0.016
0.015
0.014
0.013
0.012
0.011

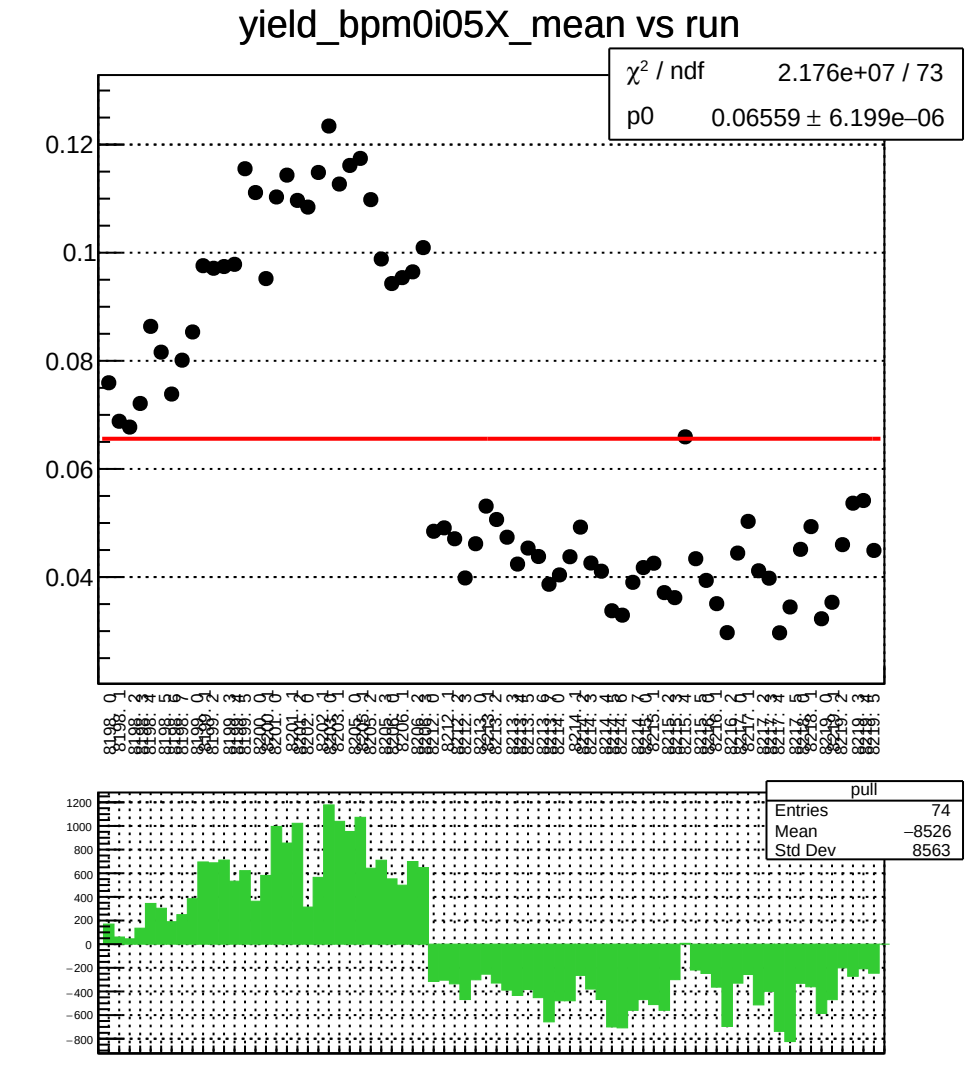

yield_bpm0i02aX_mean vs run
χ² / ndf 2.75e+06 / 73
p0 0.8471 ± 1.448e−05
0.88
0.86
0.84
0.82
0.8
pull
Entries 74
Mean 4909
Std Dev 4861
400
300
200
100
0
−100
−200
−300
pull1D
Entries 74
Mean 2.862
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

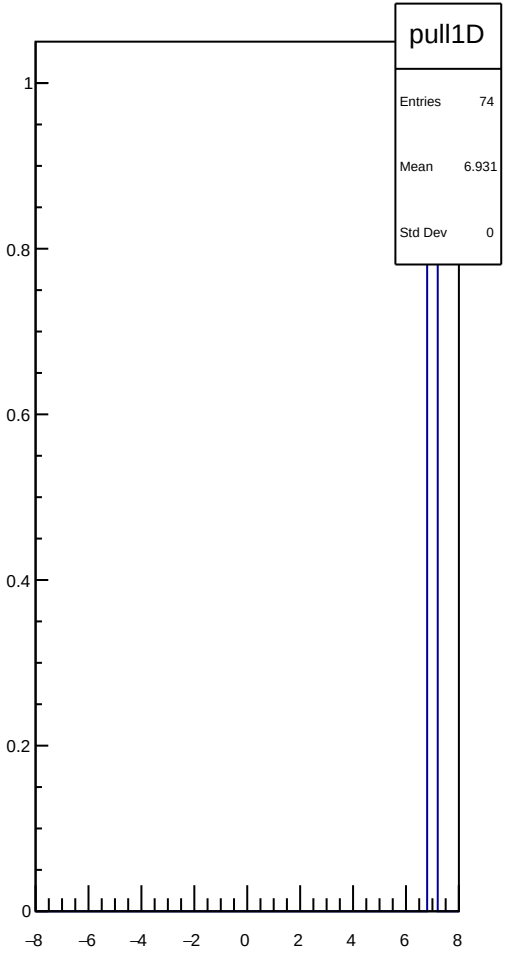

yield_bpm0i02aX_rms vs run
χ² / ndf 2.288e+04 / 73
p0 0.01246 ± 1.024e−05
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

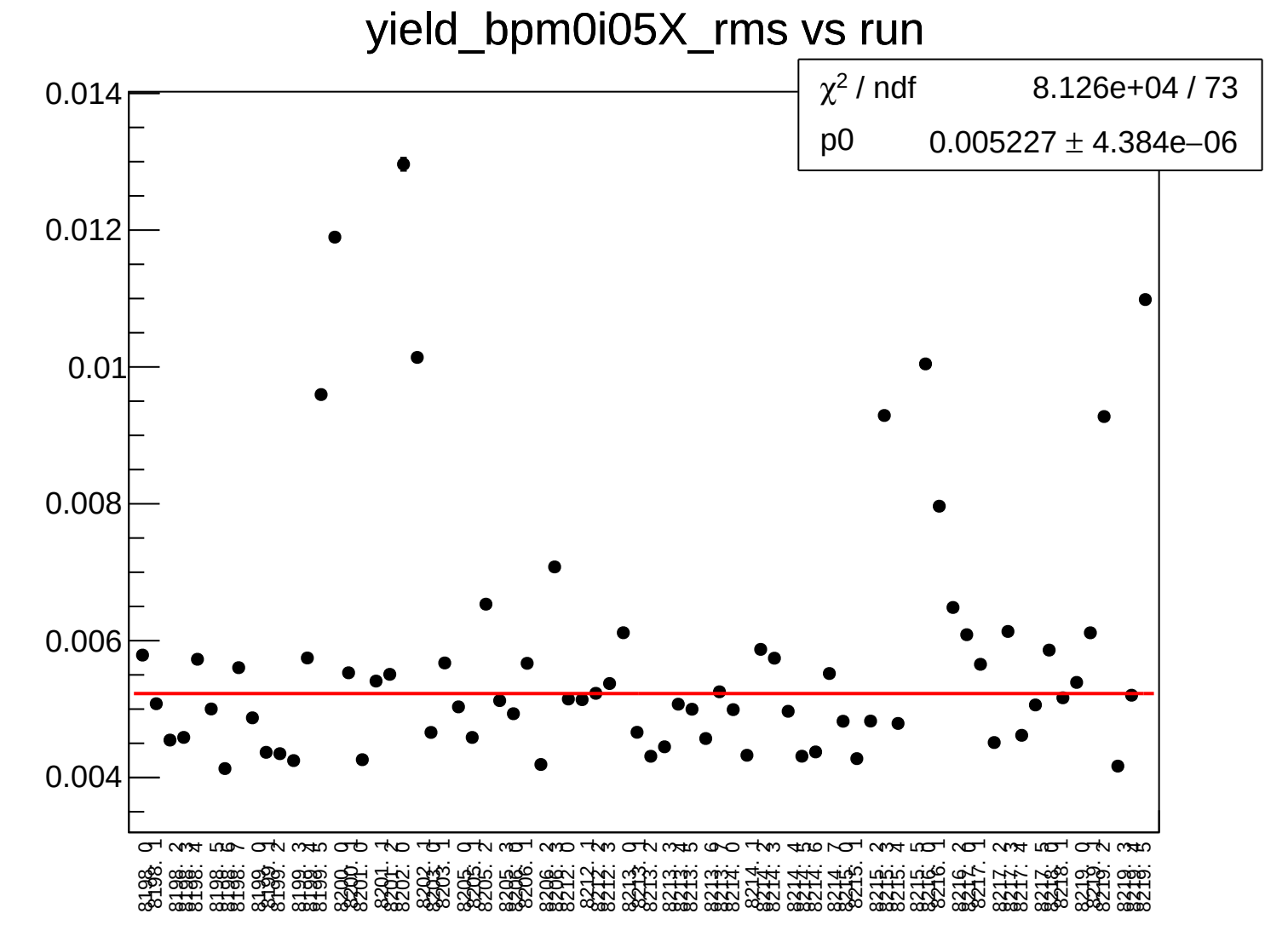

yield_bpm0i02aY_mean vs run
χ² / ndf 3.63e+06 / 73
p0 −0.8648 ± 1.553e−05
−0.78
−0.8
−0.82
−0.84
−0.86
−0.88
−0.9
−0.92
pull
Entries 74
Mean −370.9
Std Dev 388.1
600
400
200
0
−200
−400

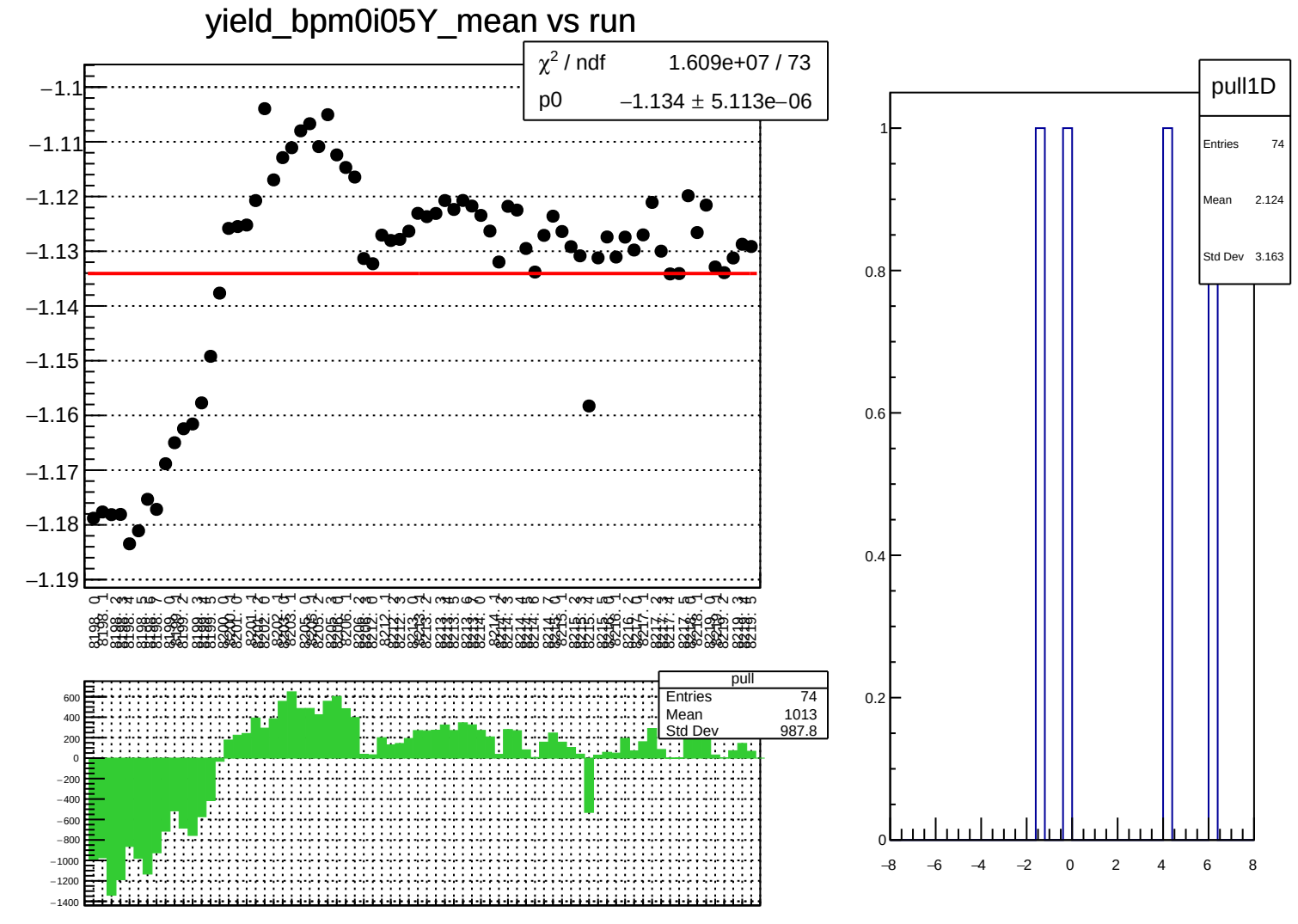

pull1D
Entries 74
Mean 1.01
Std Dev 5.401
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

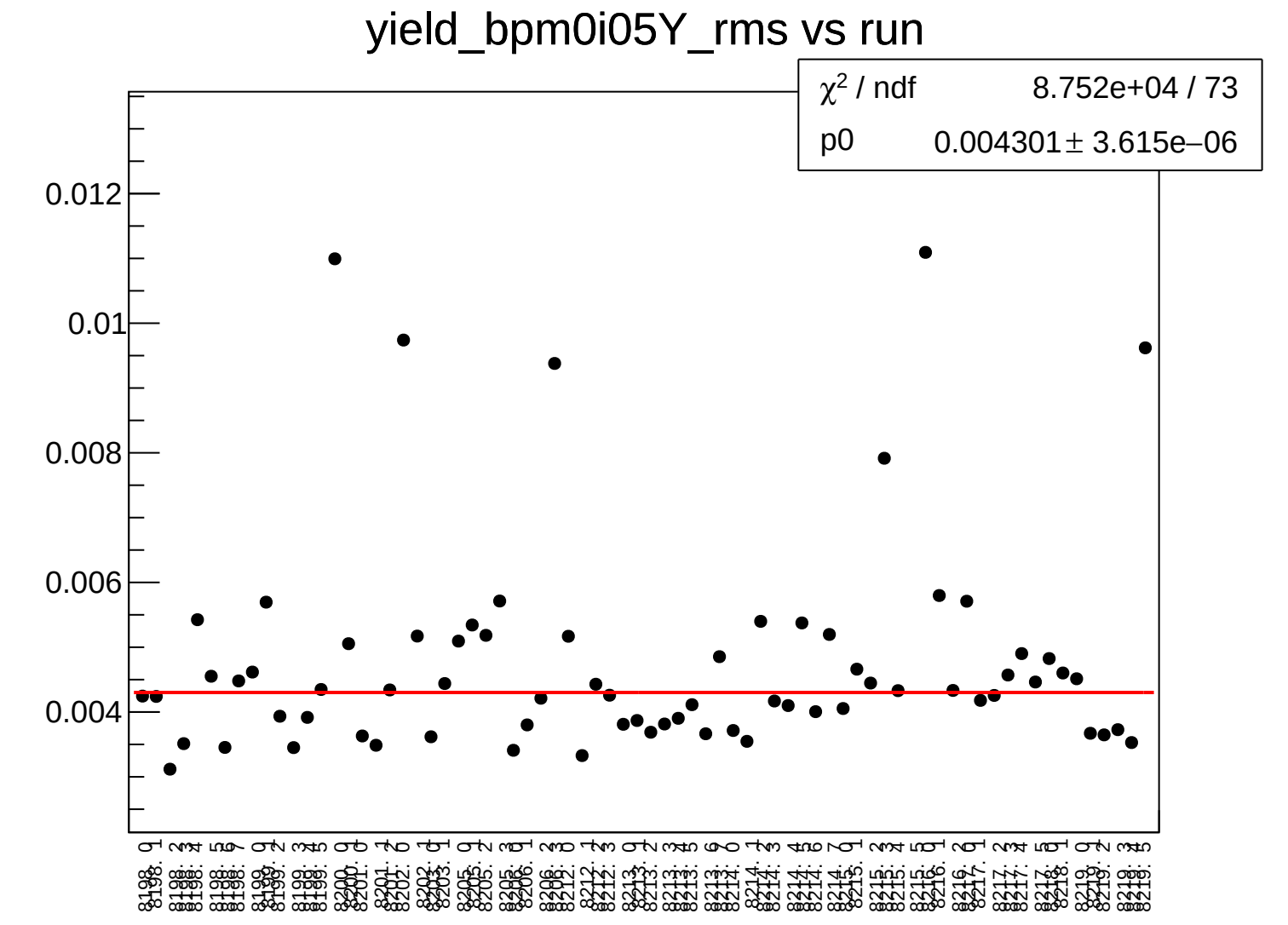

yield_bpm0i02aY_rms vs run
χ² / ndf 1.441e+04 / 73
p0 0.0134 ± 1.098e−05
0.022
0.02
0.018
0.016
0.014
0.012

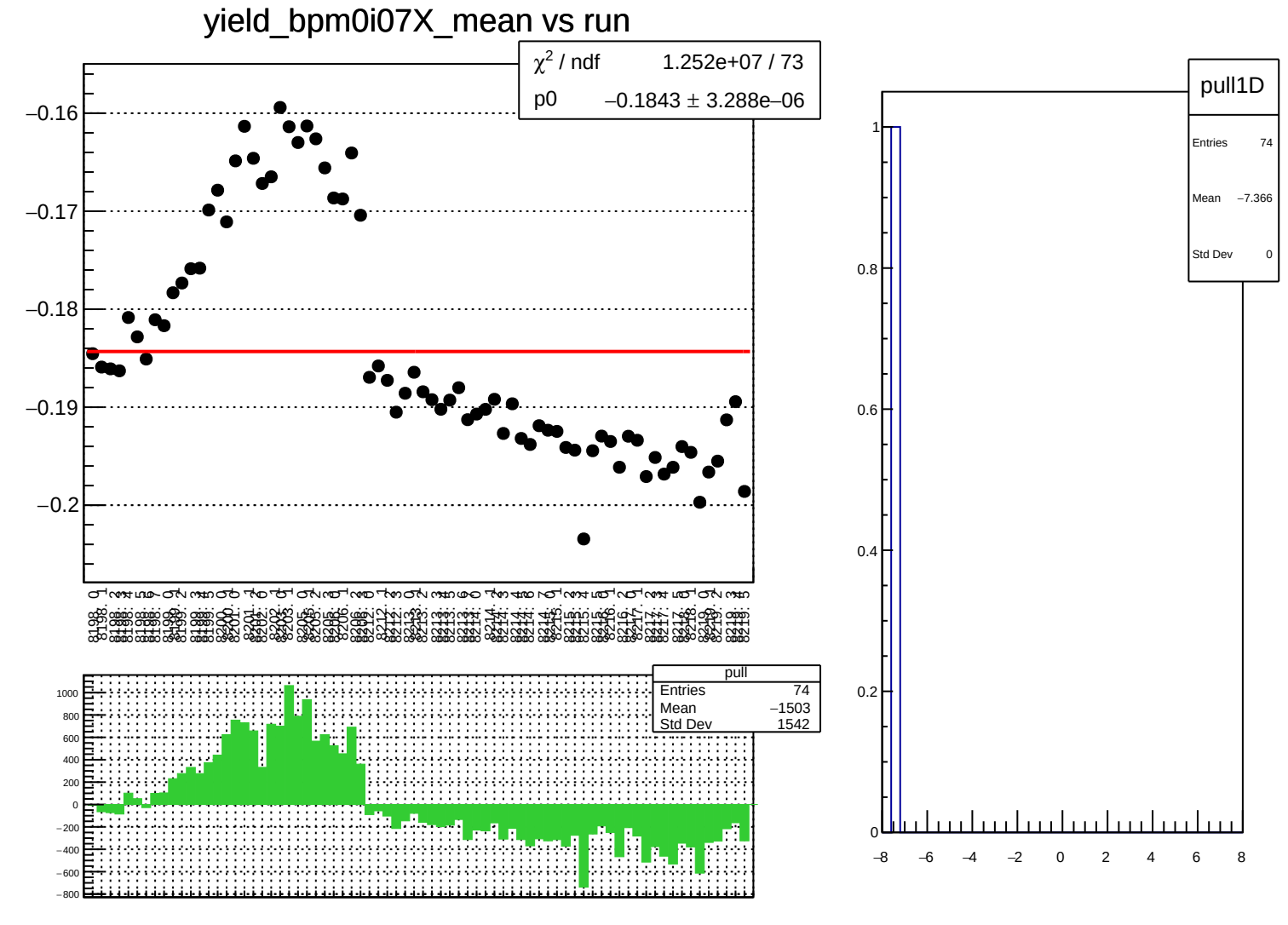

yield_bpm0i05X_mean vs run
χ² / ndf 2.176e+07 / 73
p0 0.06559 ± 6.199e−06
0.12
0.1
0.08
0.06
0.04
pull
Entries 74
Mean −8526
Std Dev 8563
1200
1000
800
600
400
200
0
−200
−400
−600
−800

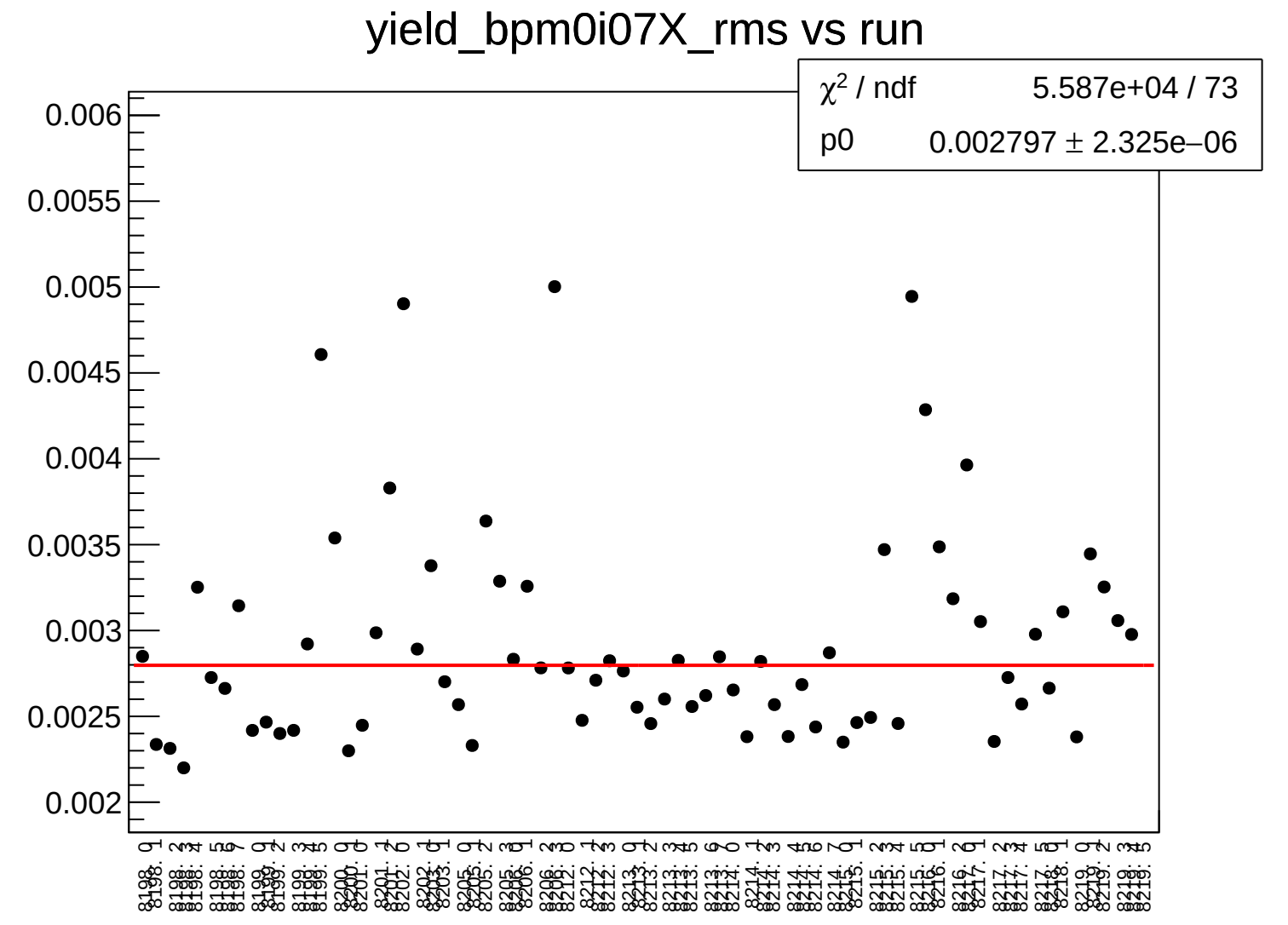

pull1D
Entries 74
Mean 6.931
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

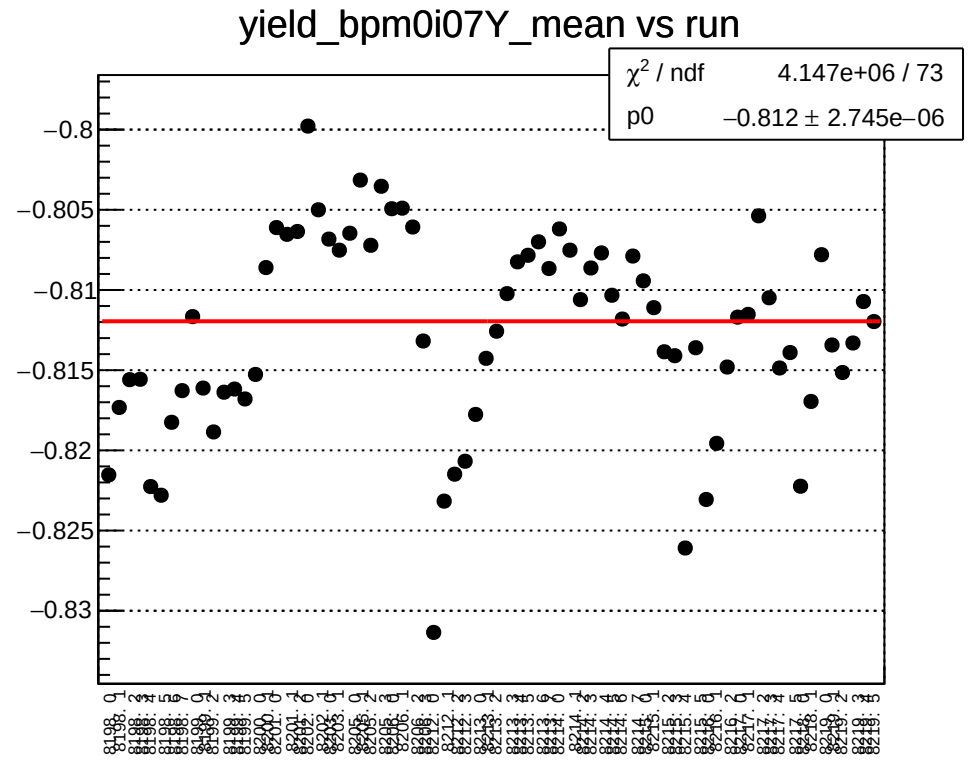

yield_bpm0i05X_rms vs run
χ² / ndf 8.126e+04 / 73
p0 0.005227 ± 4.384e−06
0.014
0.012
0.01
0.008
0.006
0.004

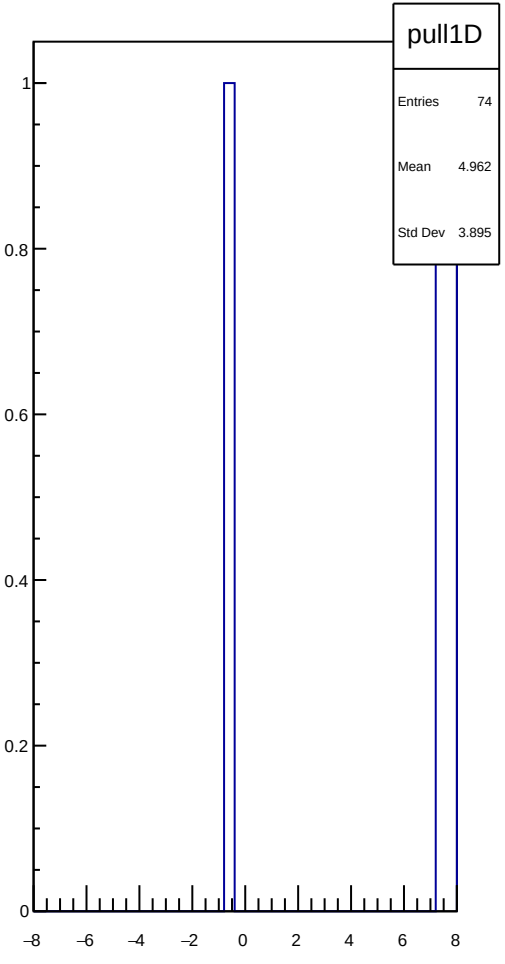

yield_bpm0i05Y_mean vs run
χ² / ndf 1.609e+07 / 73
p0 −1.134 ± 5.113e−06
pull
Entries 74
Mean 1013
Std Dev 987.8
pull1D
Entries 74
Mean 2.124
Std Dev 3.163

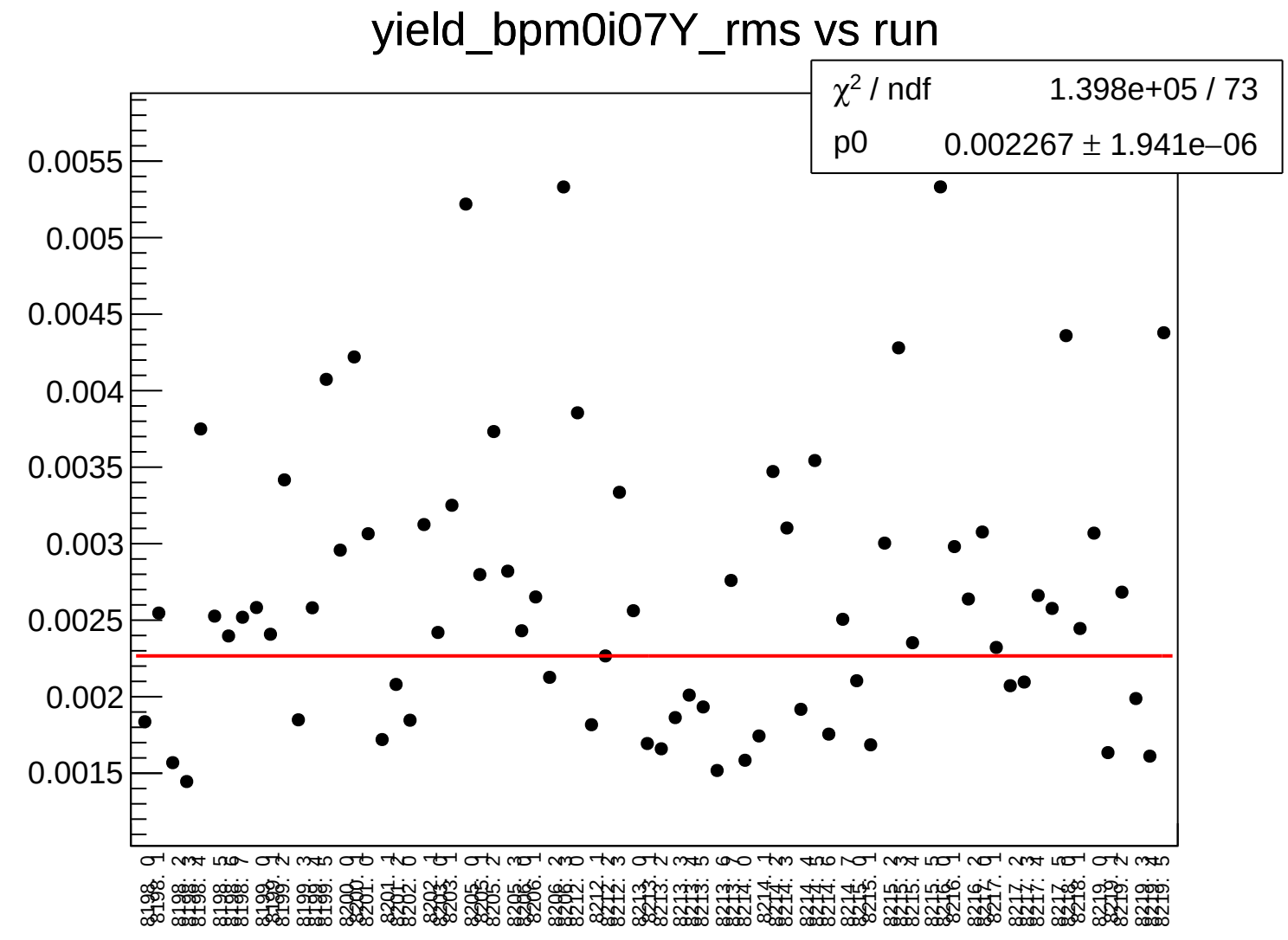

yield_bpm0i05Y_rms vs run
χ² / ndf 8.752e+04 / 73
p0 0.004301 ± 3.615e−06
0.012
0.01
0.008
0.006
0.004

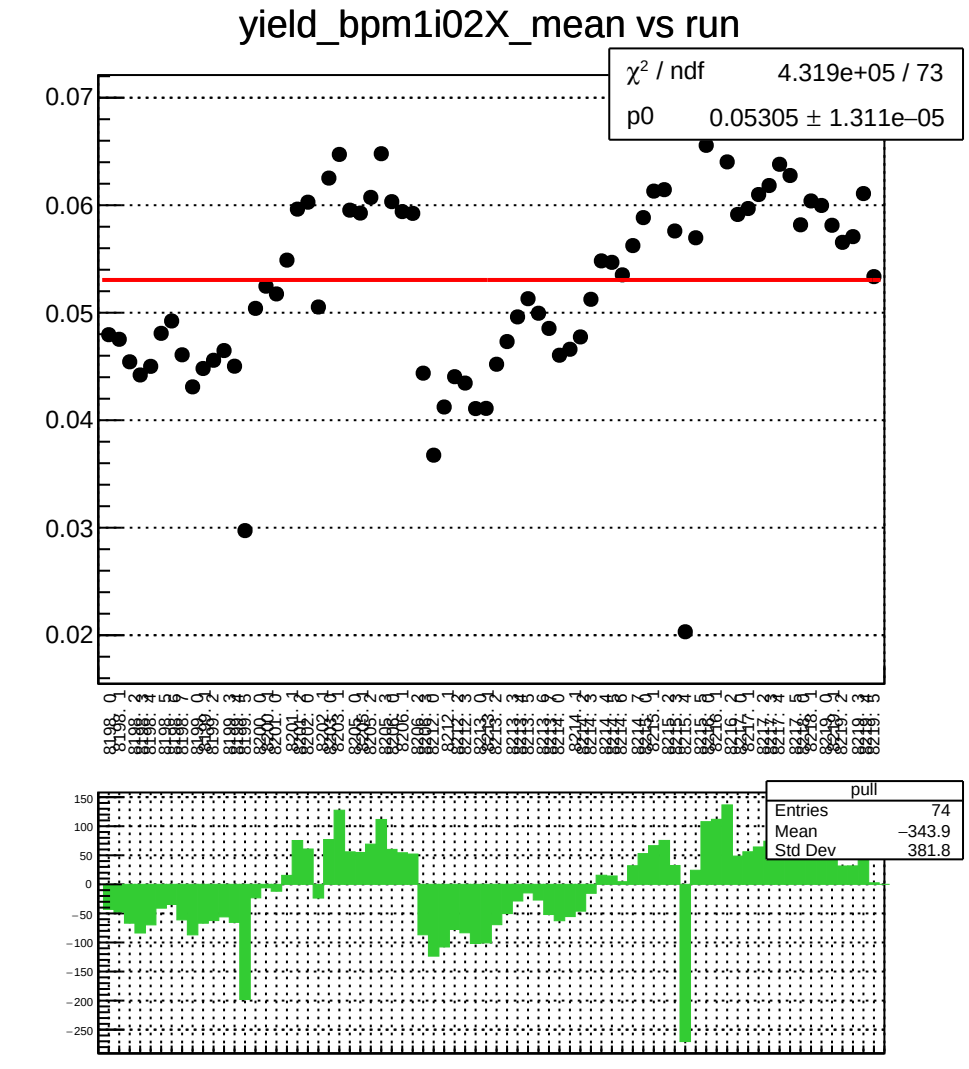

yield_bpm0i07X_mean vs run
χ² / ndf 1.252e+07 / 73
p0 −0.1843 ± 3.288e−06
−0.16
−0.17
−0.18
−0.19
−0.2
pull
Entries 74
Mean −1503
Std Dev 1542
1000
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 74
Mean −7.366
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

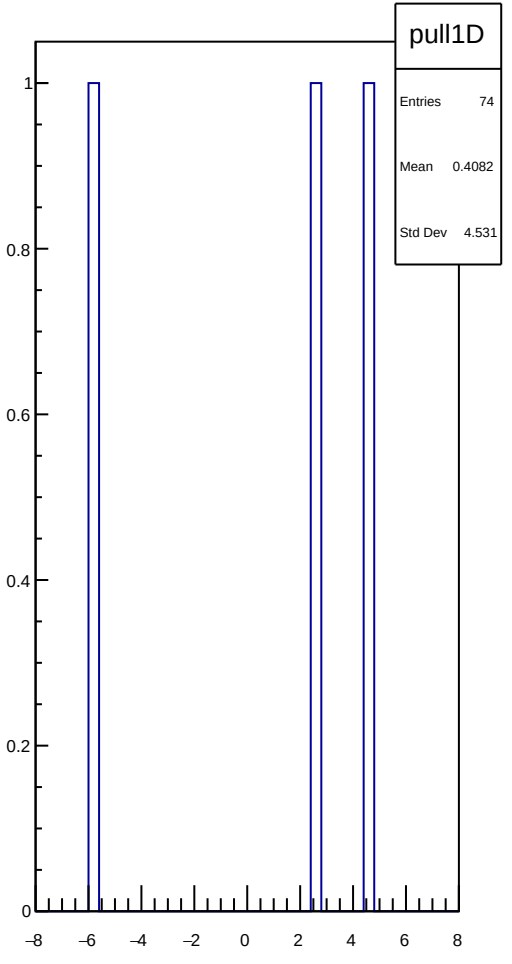

yield_bpm0i07X_rms vs run
χ^2 / ndf 5.587e+04 / 73
p0 0.002797 ± 2.325e−06
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002

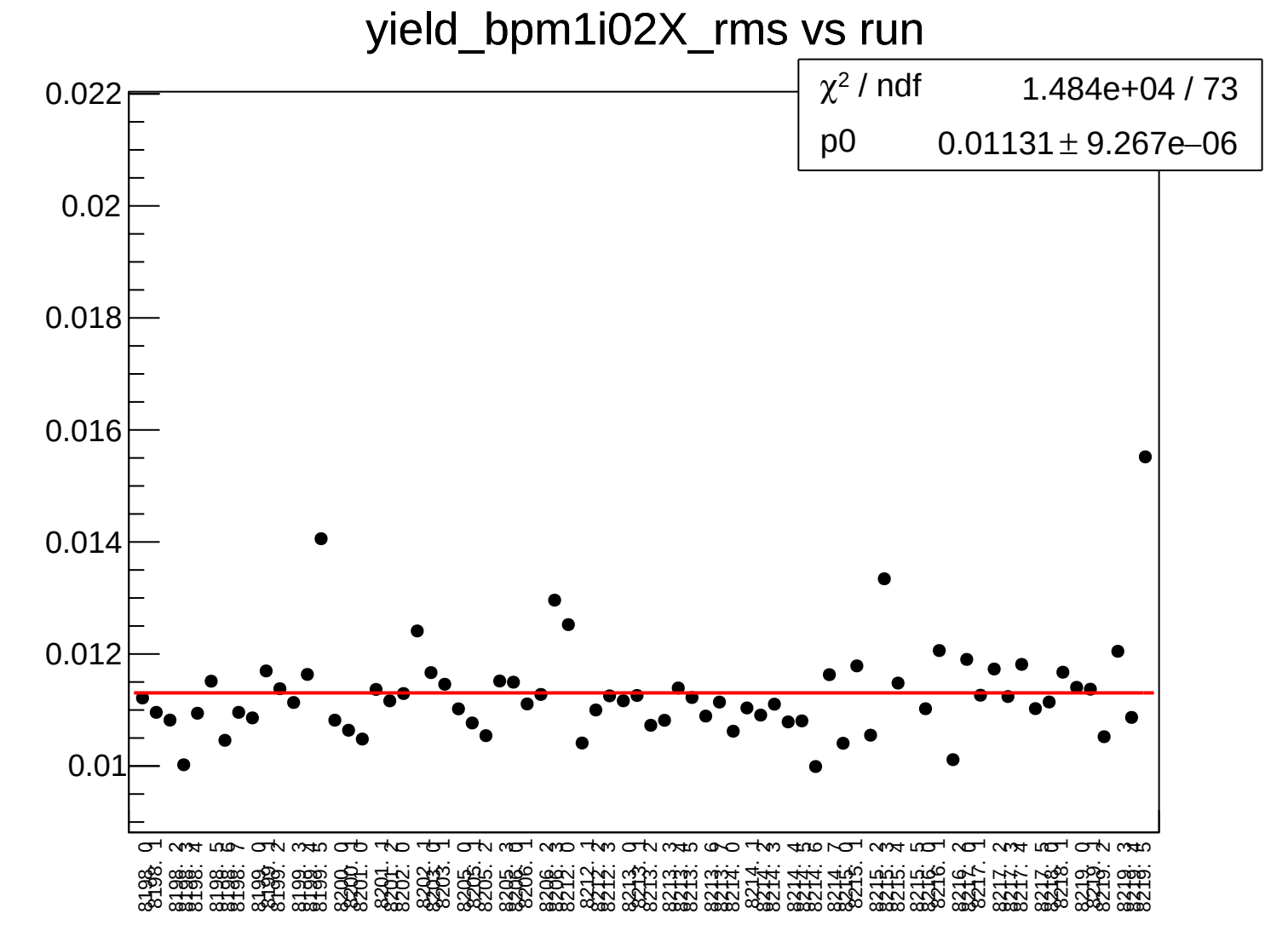

yield_bpm0i07Y_mean vs run
χ² / ndf 4.147e+06 / 73
p0 −0.812 ± 2.745e−06
pull
Entries 74
Mean 2.269
Std Dev 46.39

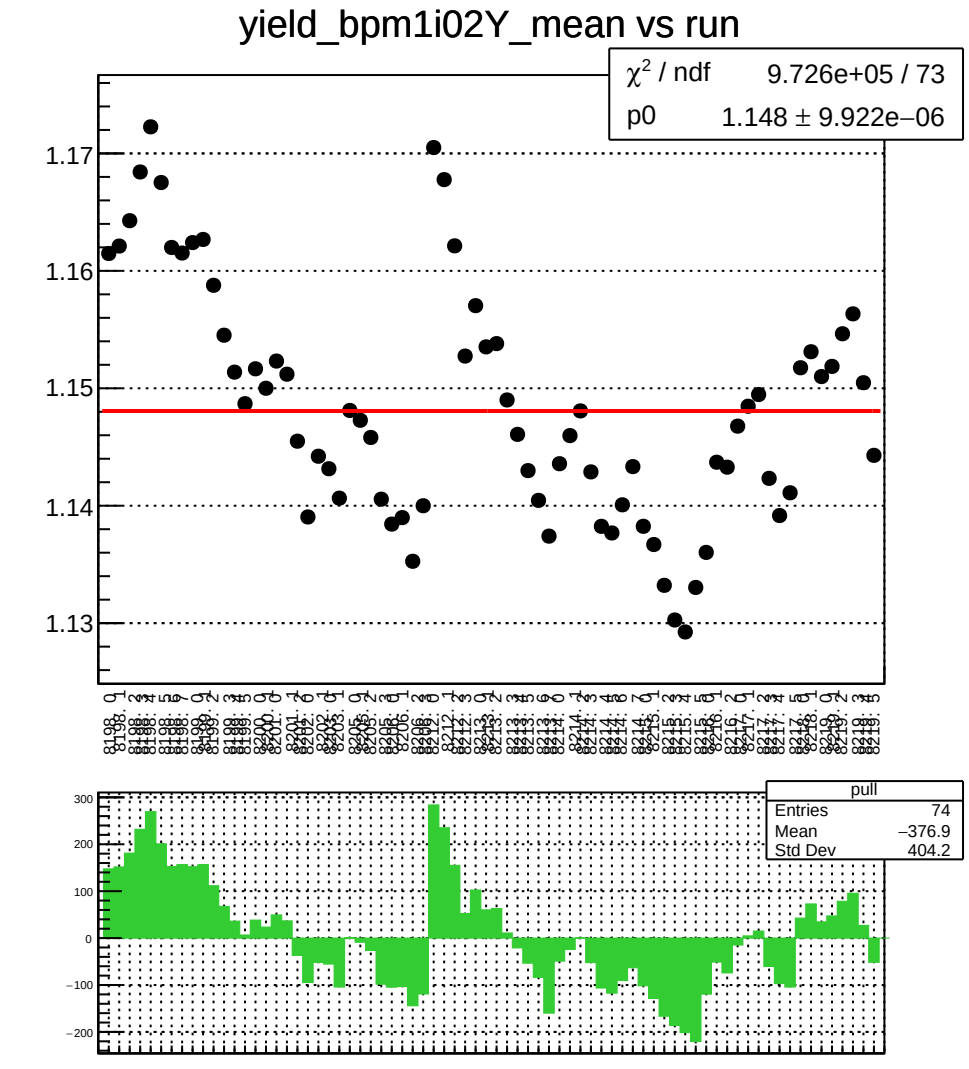

pull1D
Entries 74
Mean 4.962
Std Dev 3.895

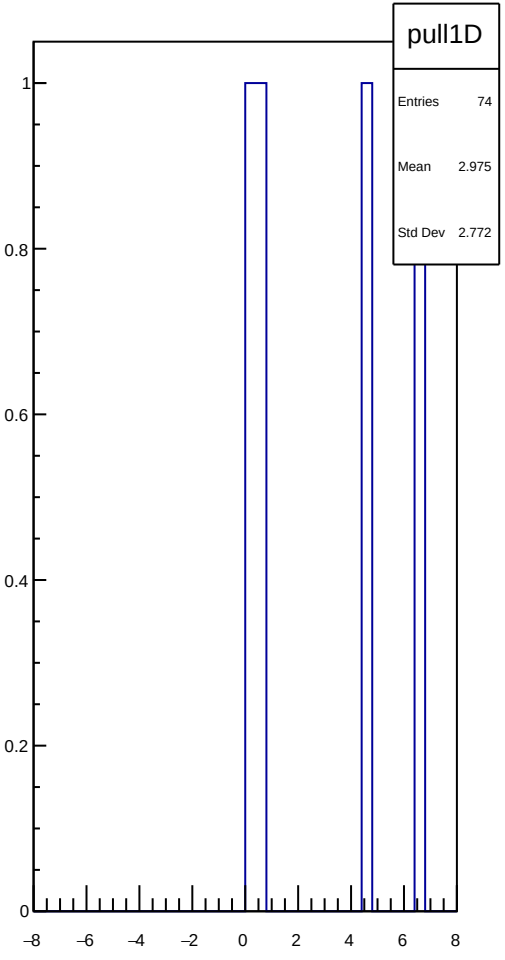

yield_bpm0i07Y_rms vs run
χ² / ndf 1.398e+05 / 73
p0 0.002267 ± 1.941e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025
0.002
0.0015


yield_bpm1i02X_mean vs run
χ² / ndf 4.319e+05 / 73
p0 0.05305 ± 1.311e−05
0.07
0.06
0.05
0.04
0.03
0.02
pull
Entries 74
Mean −343.9
Std Dev 381.8
150
100
50
0
−50
−100
−150
−200
−250

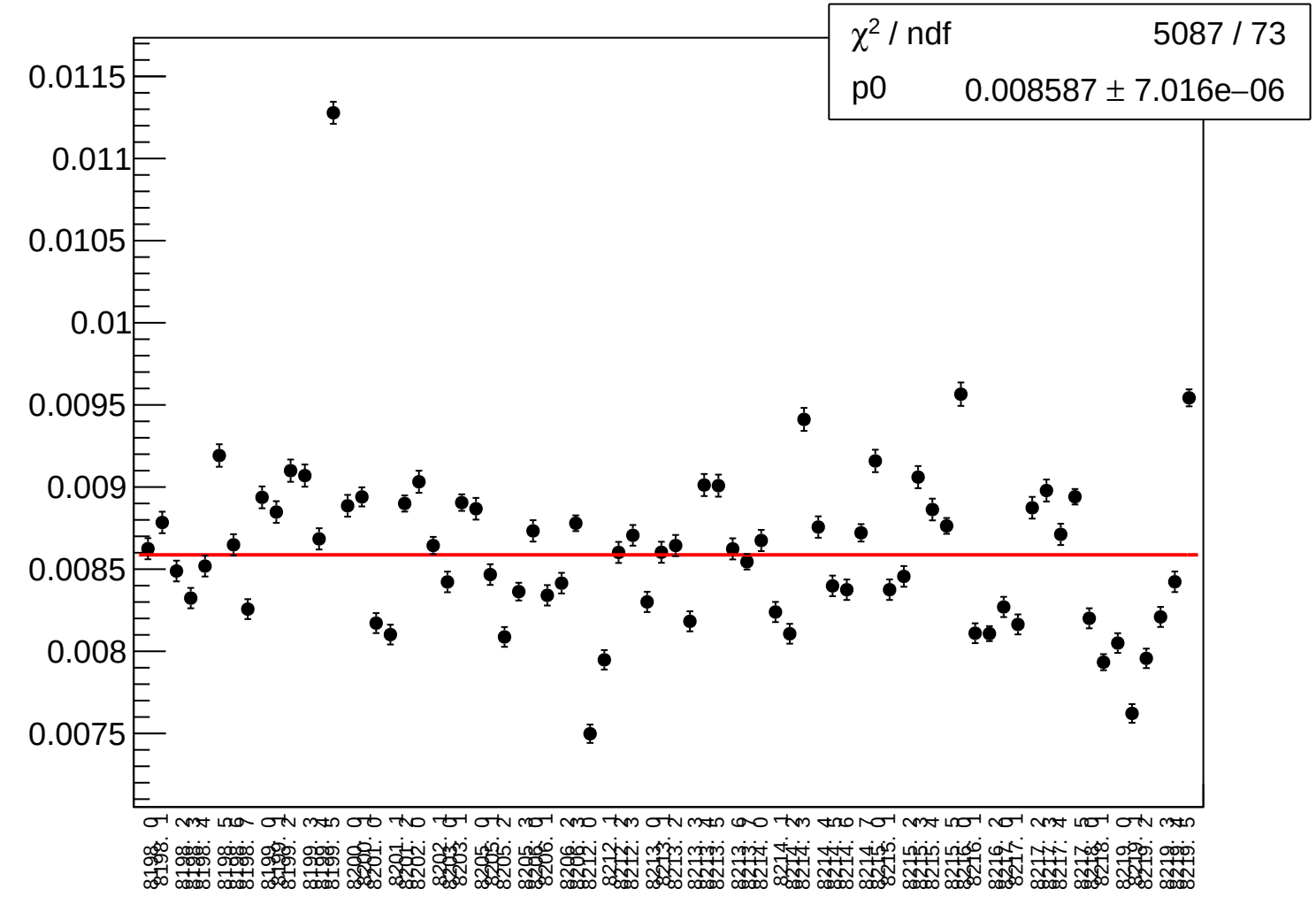

pull1D
Entries 74
Mean 0.4082
Std Dev 4.531
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

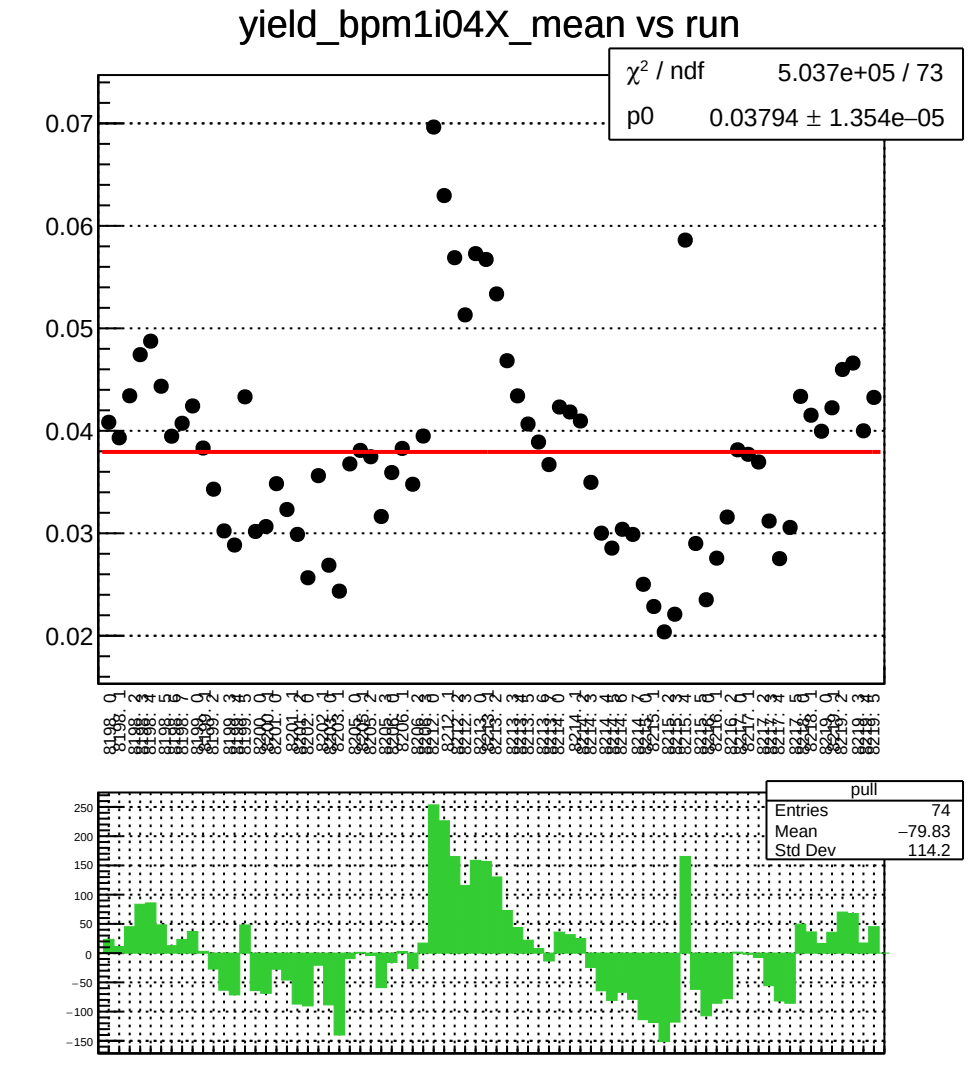

yield_bpm1i02X_rms vs run
χ² / ndf 1.484e+04 / 73
p0 0.01131 ± 9.267e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

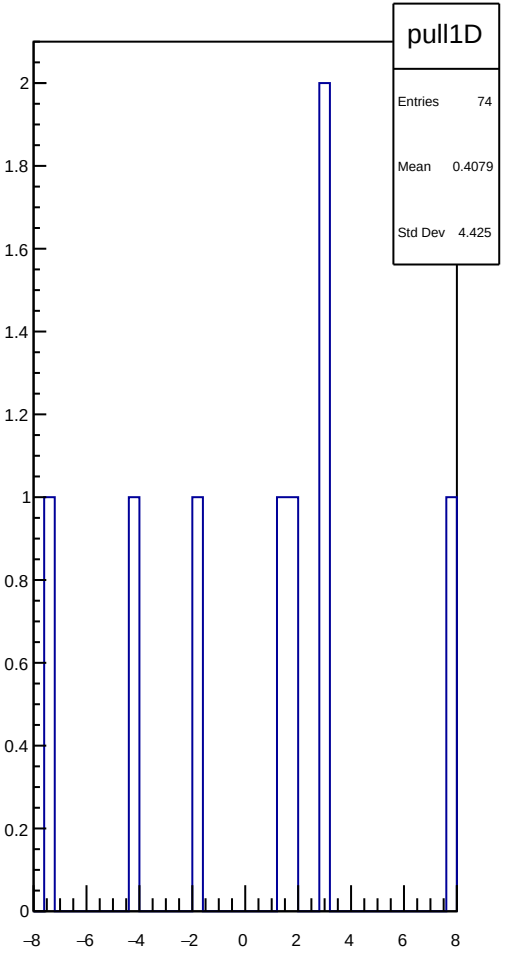

yield_bpm1i02Y_mean vs run
χ² / ndf 9.726e+05 / 73
p0 1.148 ± 9.922e−06
1.17
1.16
1.15
1.14
1.13
pull
Entries 74
Mean −376.9
Std Dev 404.2
300
200
100
0
−100
−200

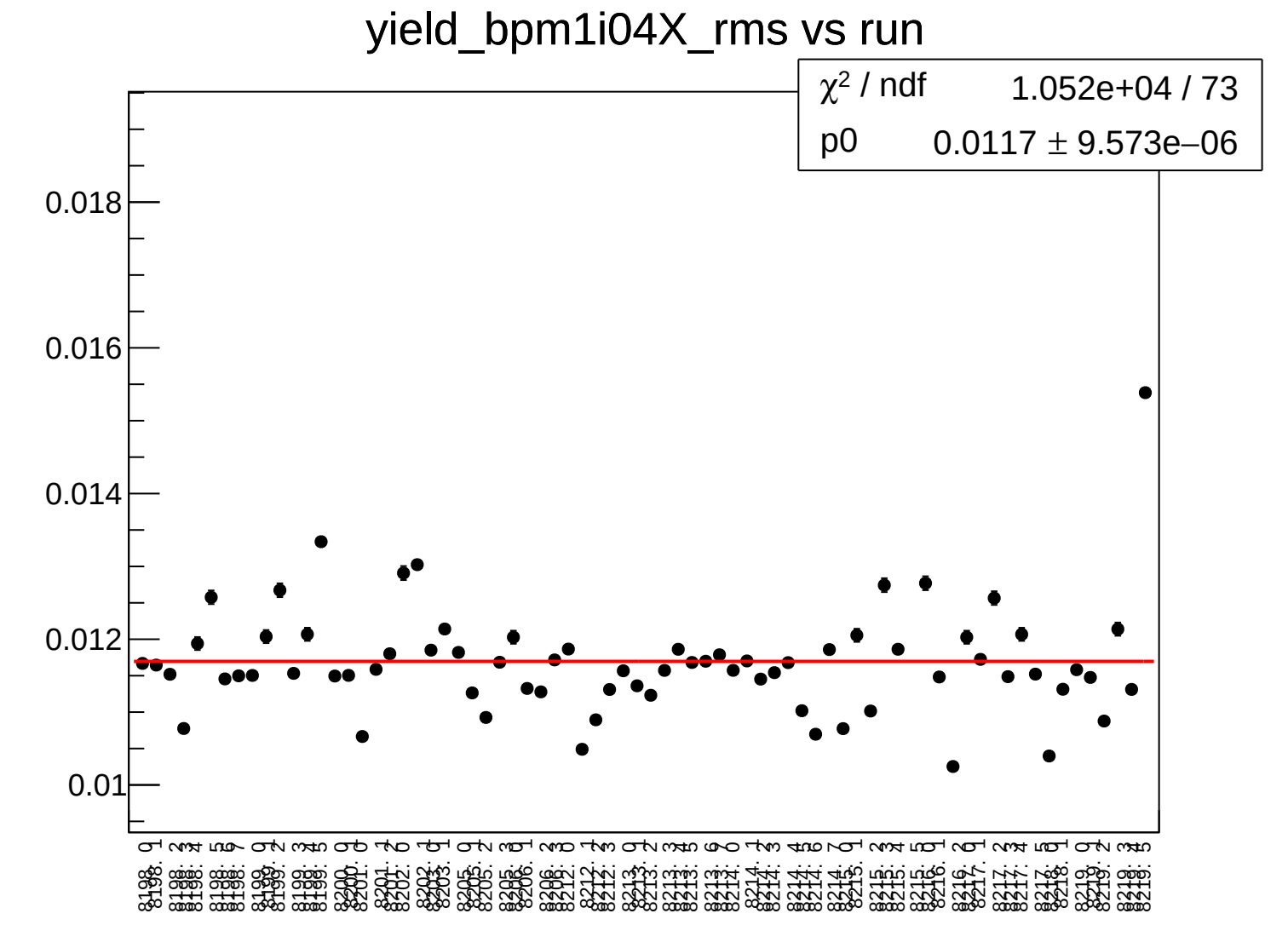

pull1D
Entries 74
Mean 2.975
Std Dev 2.772
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

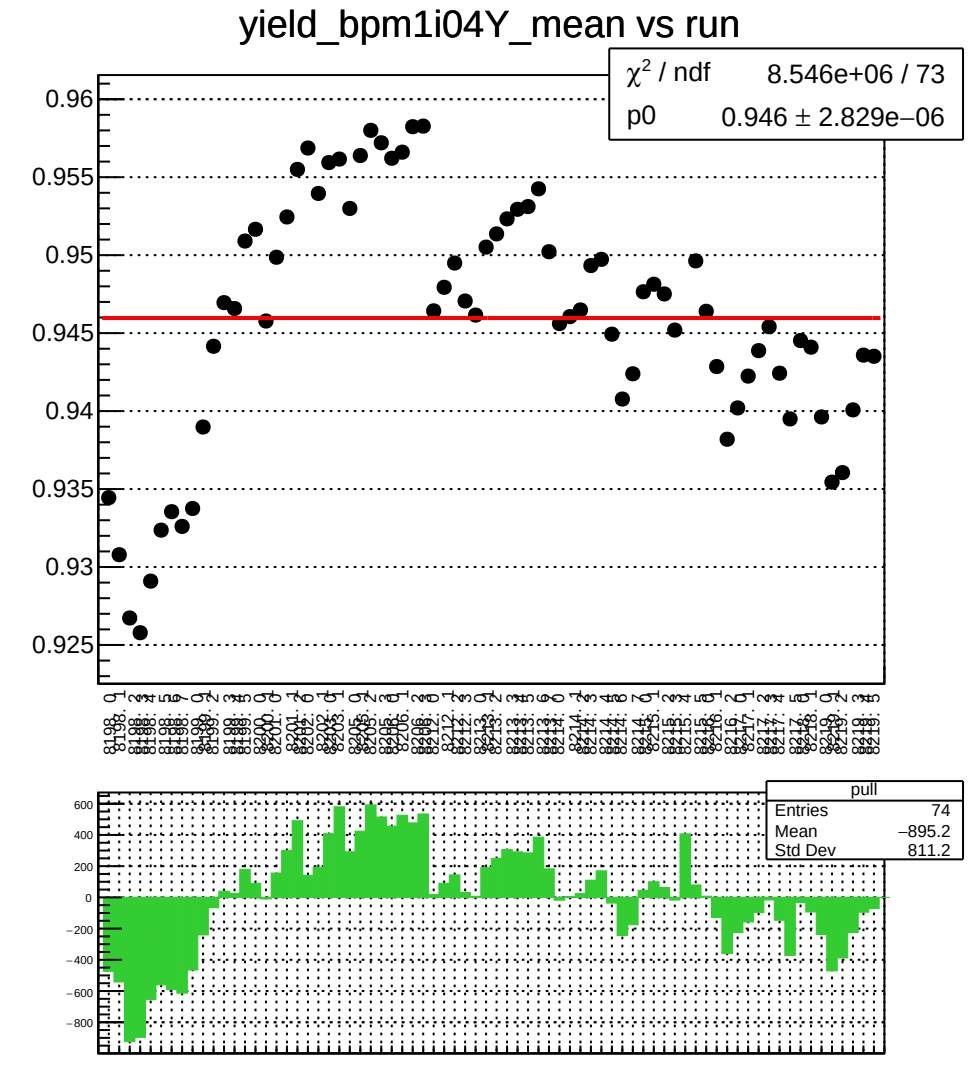
yield_bpm1i02Y_rms vs run

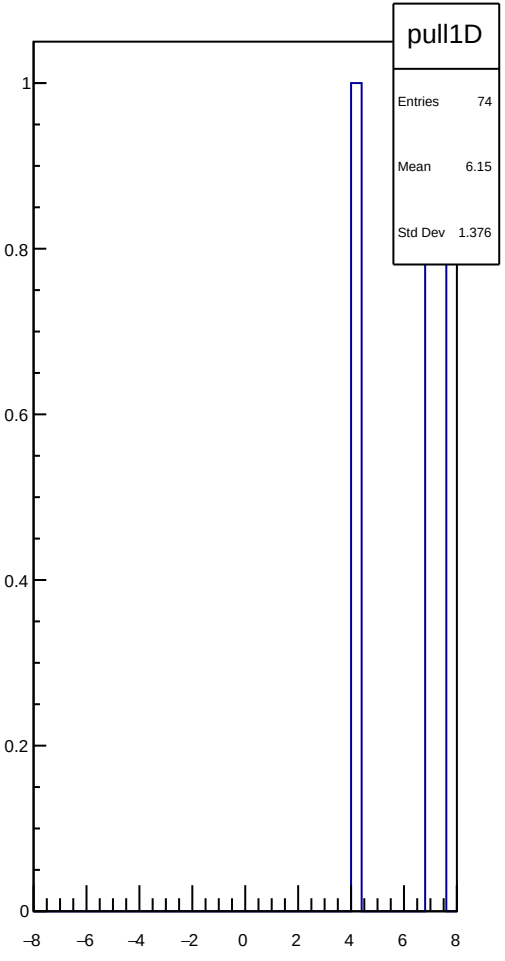


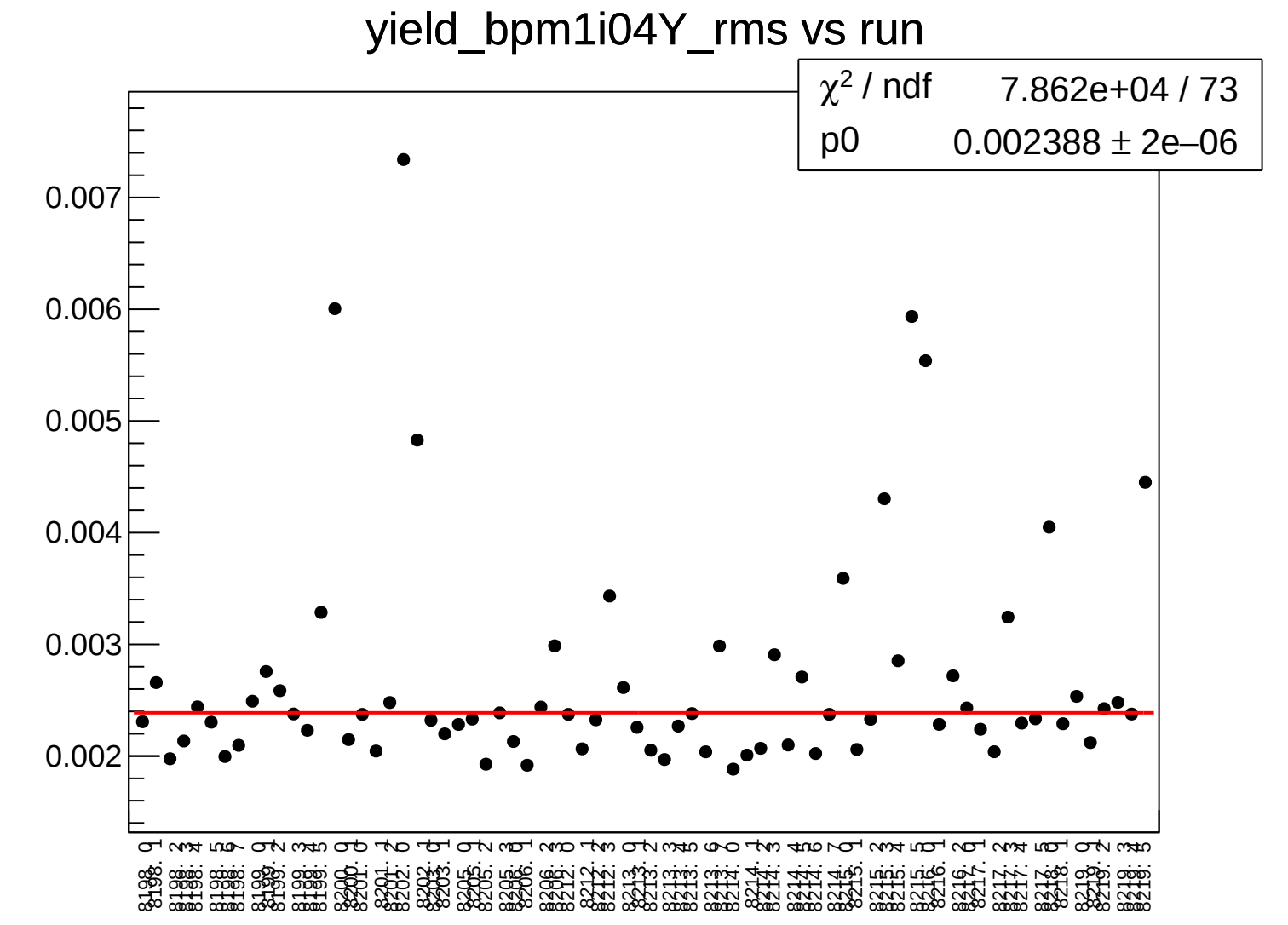

yield_bpm1i04X_mean vs run
χ² / ndf 5.037e+05 / 73
p0 0.03794 ± 1.354e−05
pull
Entries 74
Mean −79.83
Std Dev 114.2

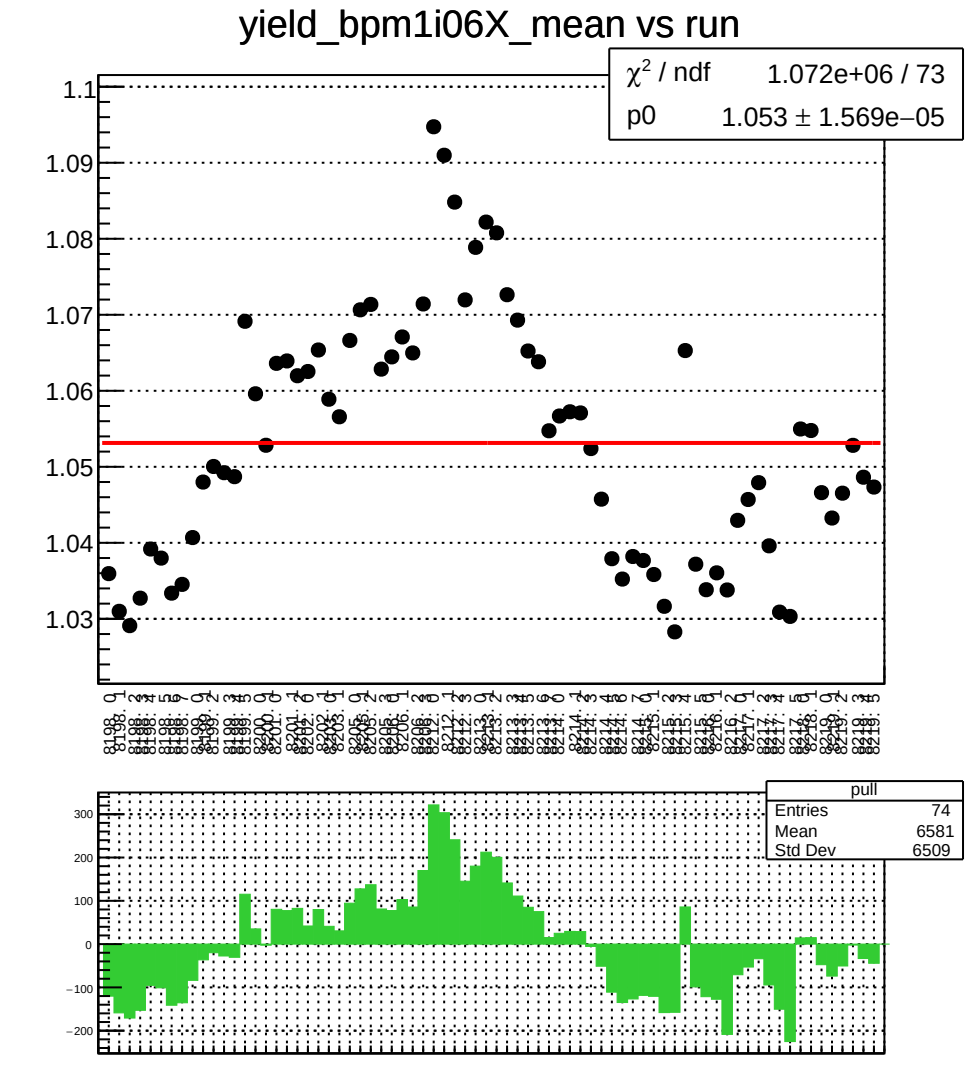

pull1D
Entries 74
Mean 0.4079
Std Dev 4.425

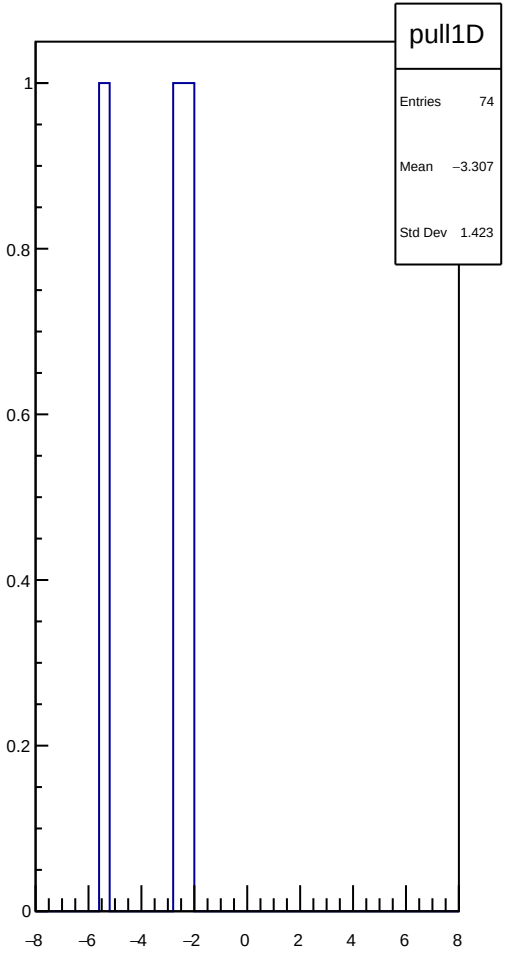

yield_bpm1i04X_rms vs run
χ² / ndf 1.052e+04 / 73
p0 0.0117 ± 9.573e−06
0.018
0.016
0.014
0.012
0.01

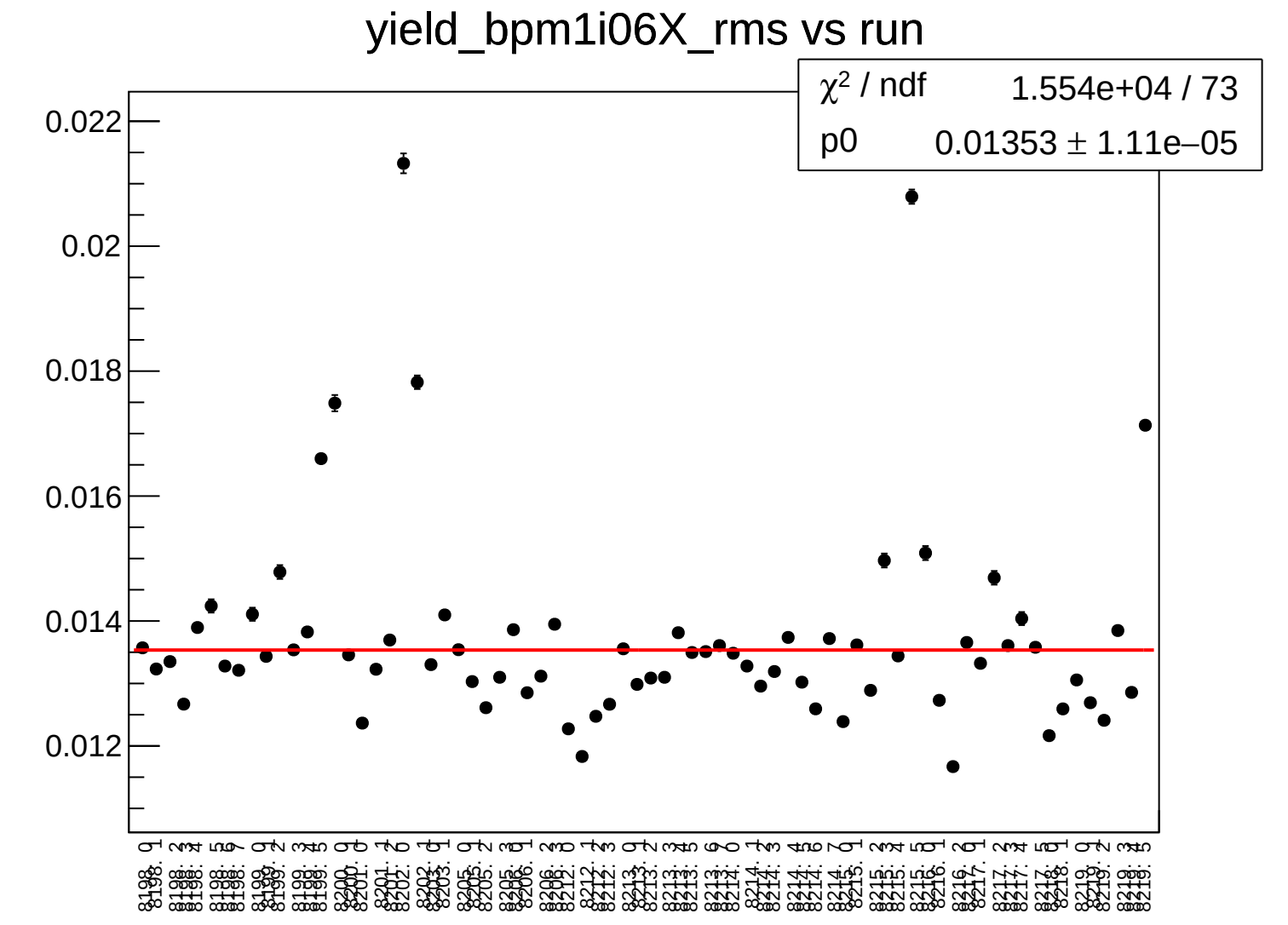

yield_bpm1i04Y_mean vs run
χ² / ndf 8.546e+06 / 73
p0 0.946 ± 2.829e−06
pull
Entries 74
Mean −895.2
Std Dev 811.2

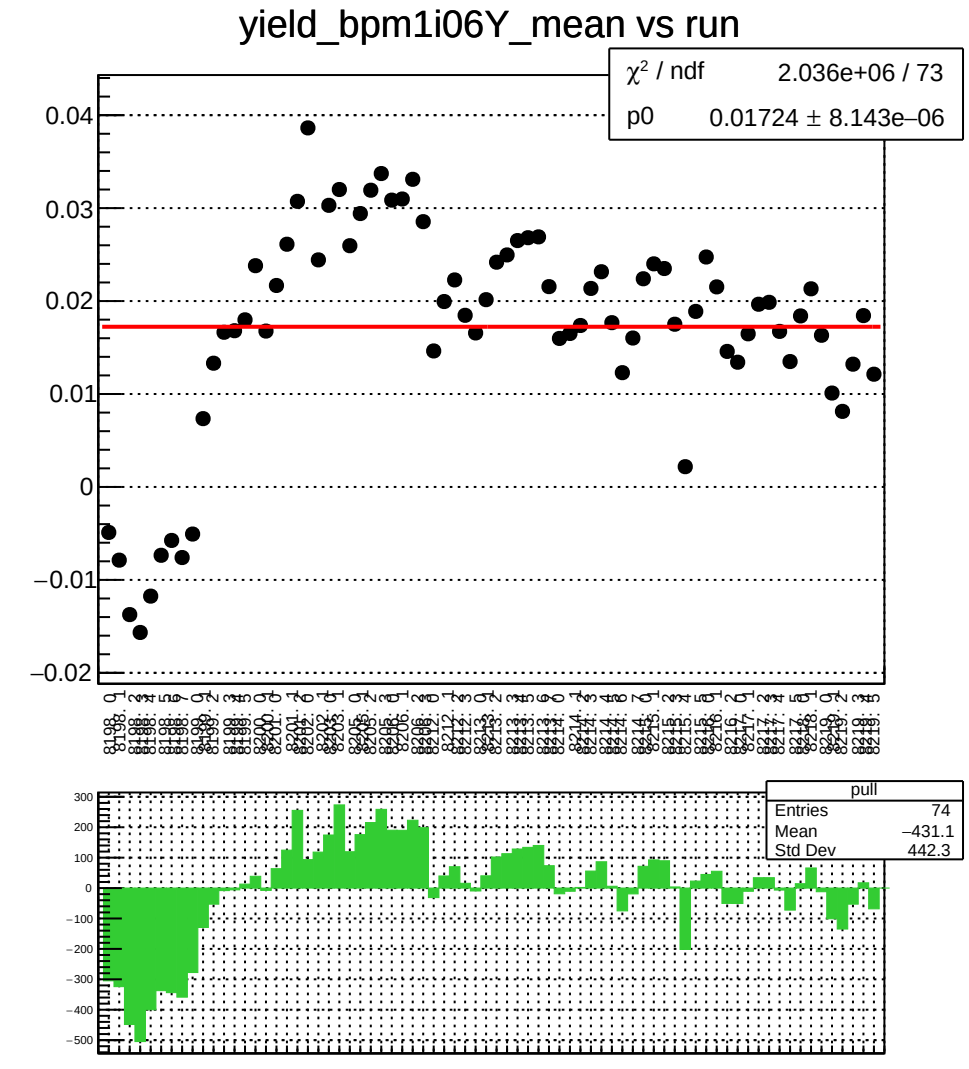

pull1D
Entries 74
Mean 6.15
Std Dev 1.376

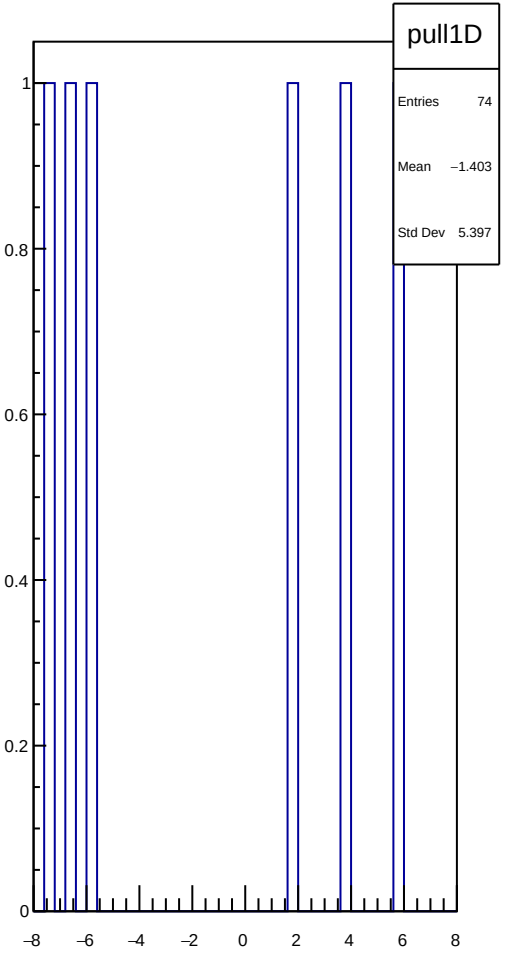

yield_bpm1i04Y_rms vs run
χ^2 / ndf 7.862e+04 / 73
p0 0.002388 ± 2e−06
0.007
0.006
0.005
0.004
0.003
0.002

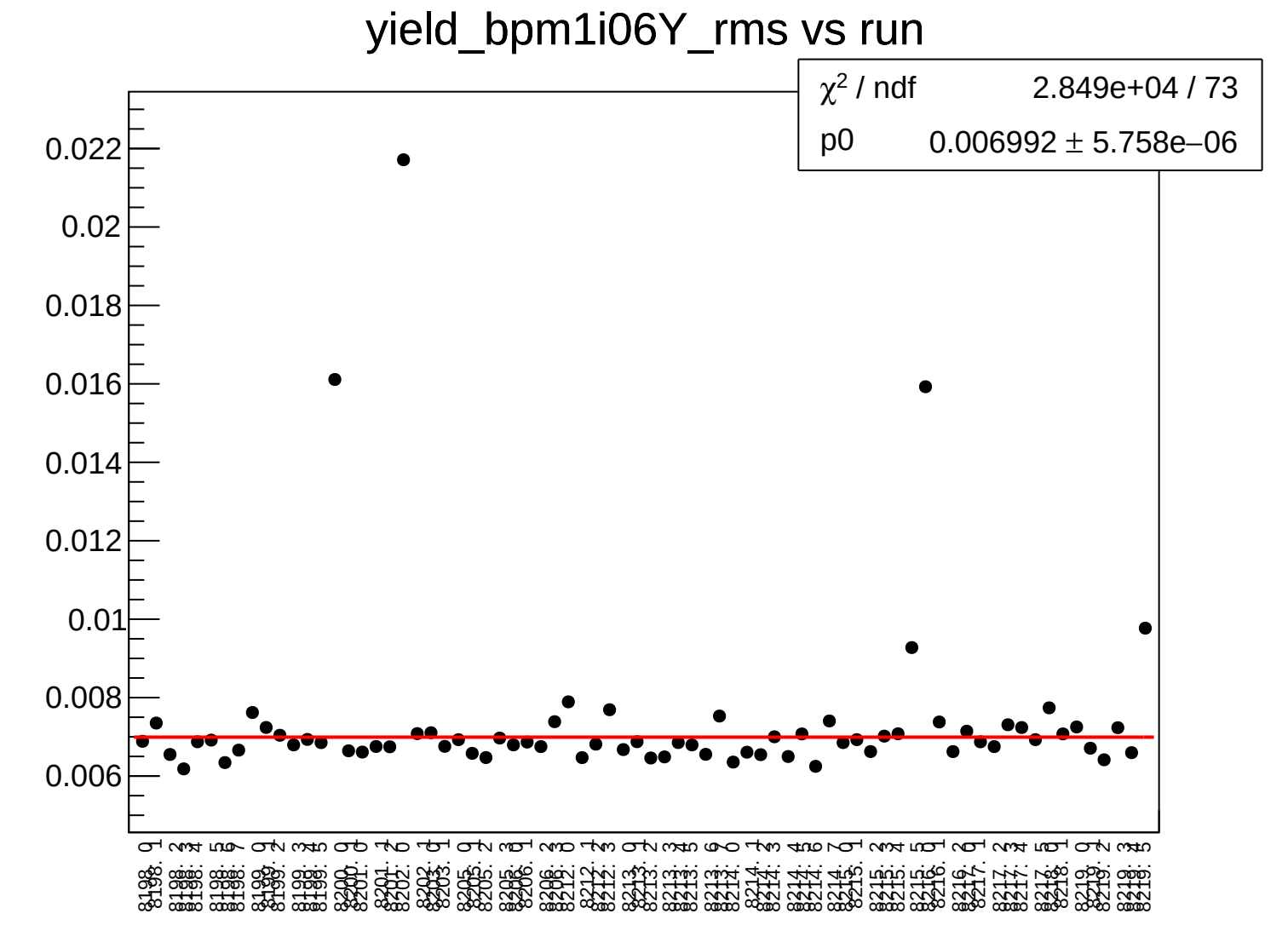

yield_bpm1i06X_mean vs run
χ² / ndf 1.072e+06 / 73
p0 1.053 ± 1.569e−05
pull
Entries 74
Mean 6581
Std Dev 6509

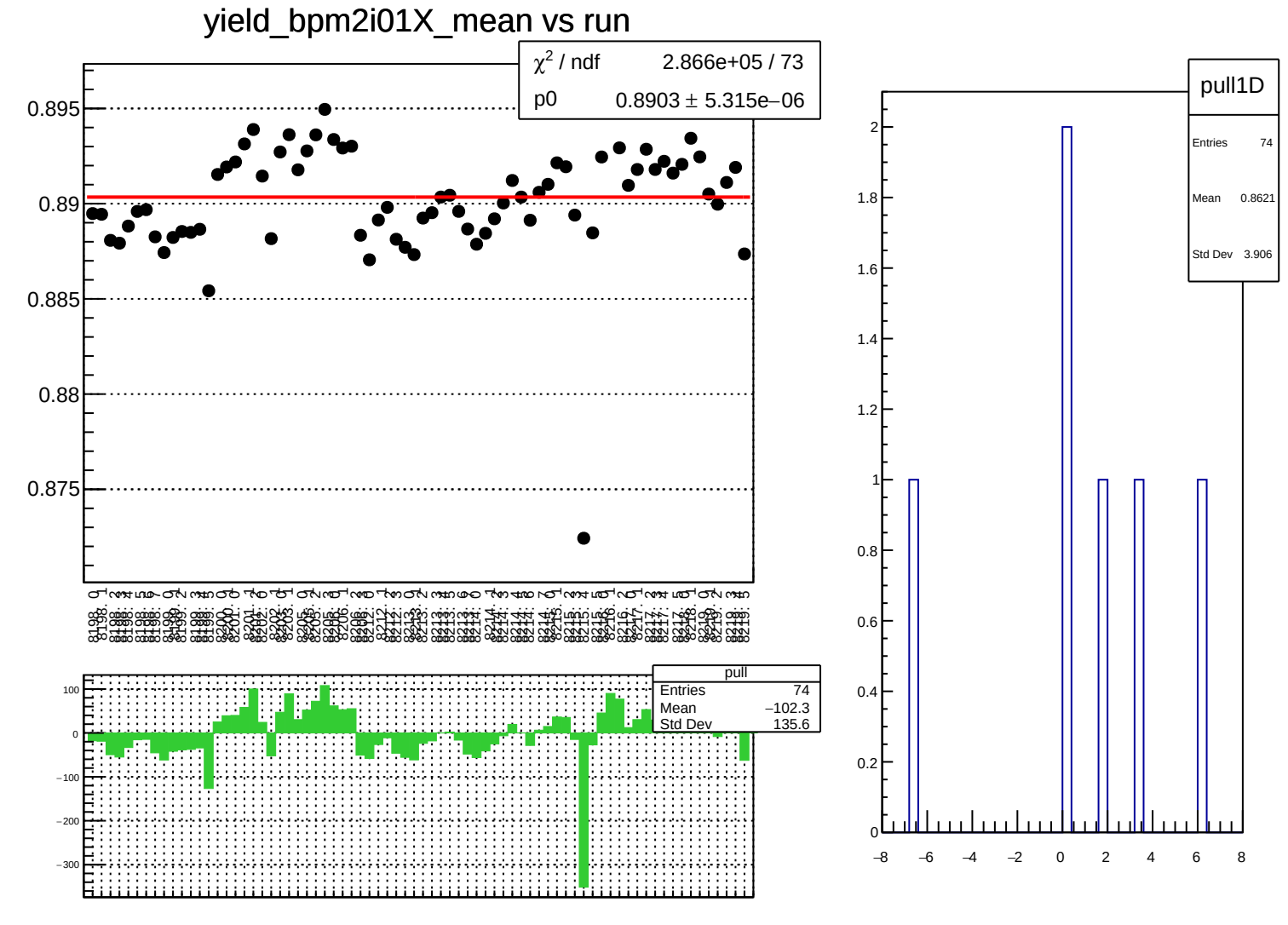

pull1D
Entries 74
Mean −3.307
Std Dev 1.423

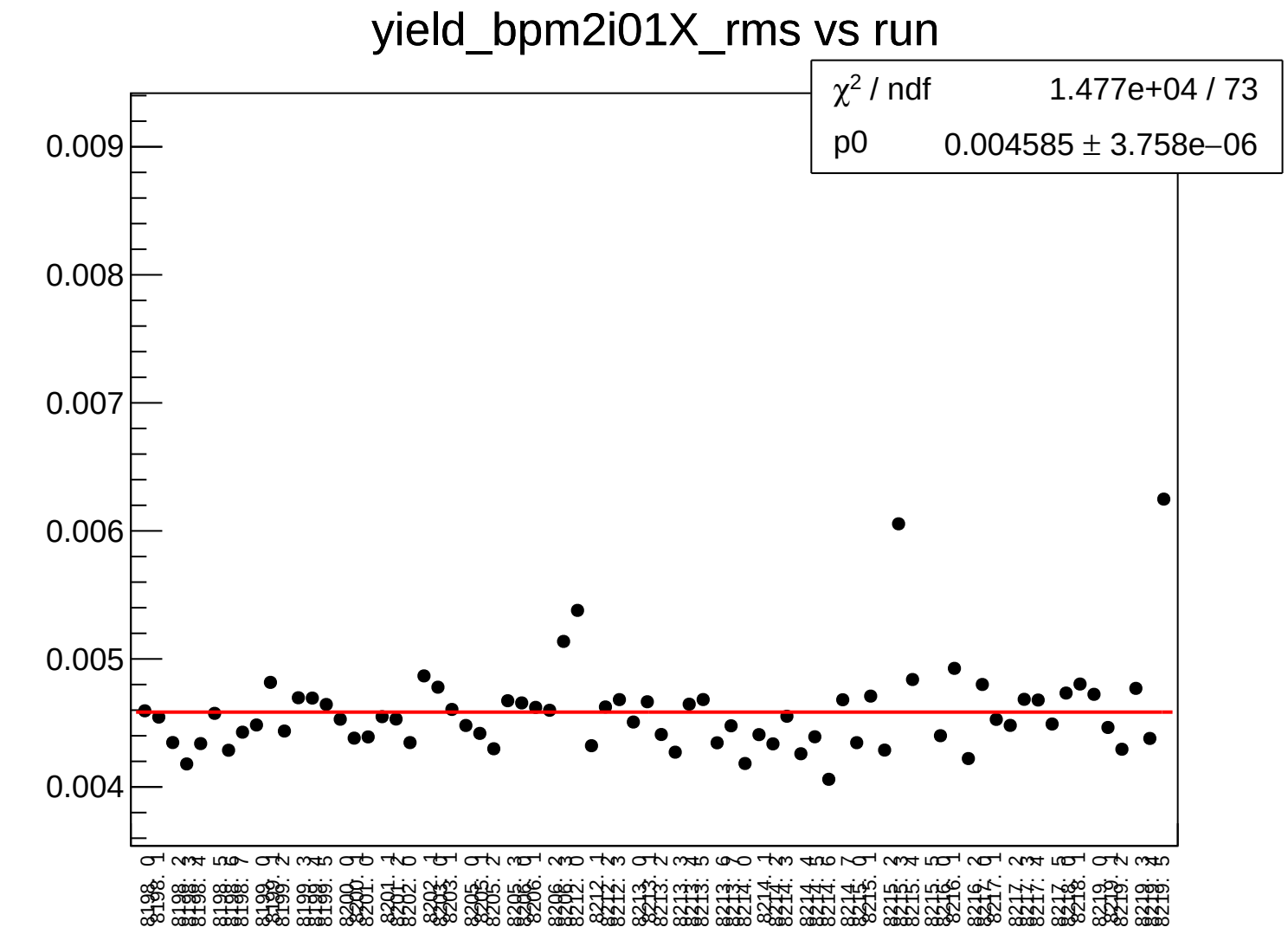

yield_bpm1i06X_rms vs run
χ² / ndf 1.554e+04 / 73
p0 0.01353 ± 1.11e−05
0.022
0.02
0.018
0.016
0.014
0.012

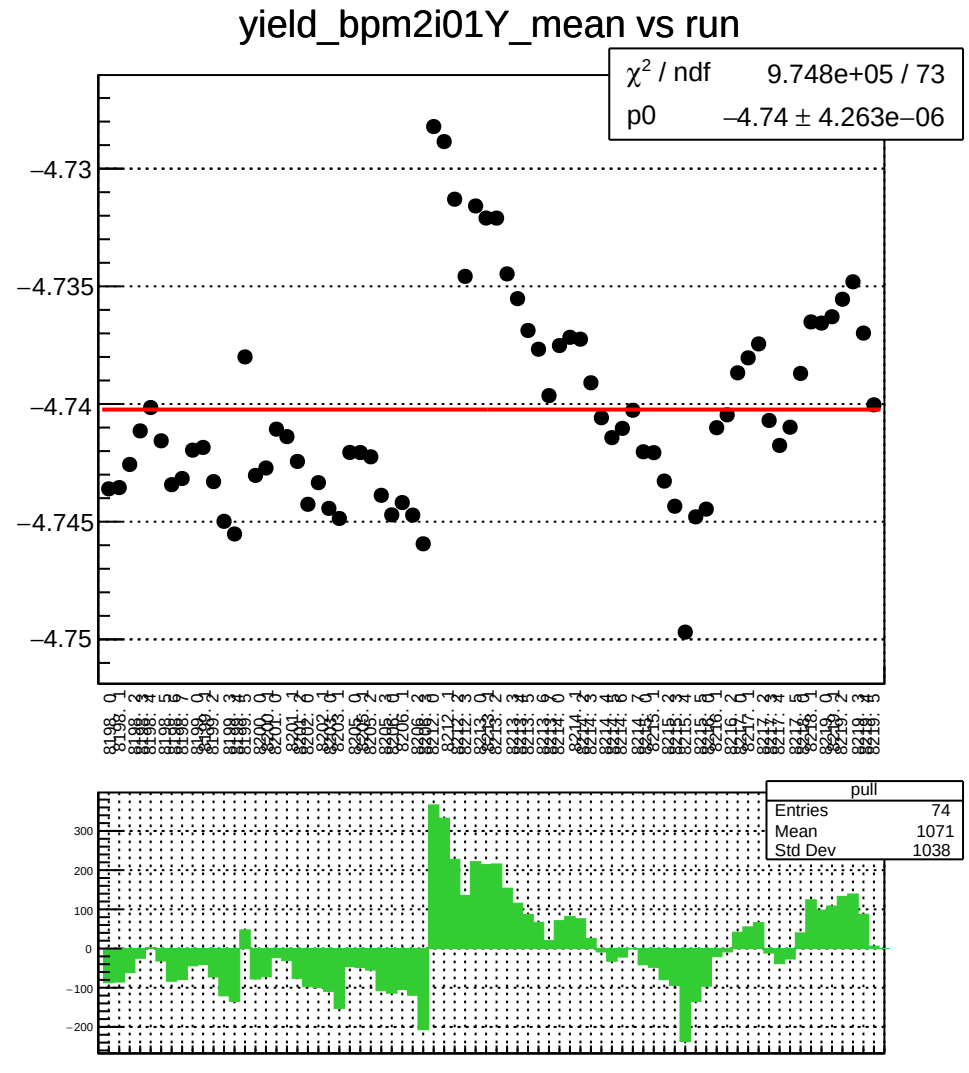

yield_bpm1i06Y_mean vs run
χ² / ndf 2.036e+06 / 73
p0 0.01724 ± 8.143e−06
pull
Entries 74
Mean −431.1
Std Dev 442.3

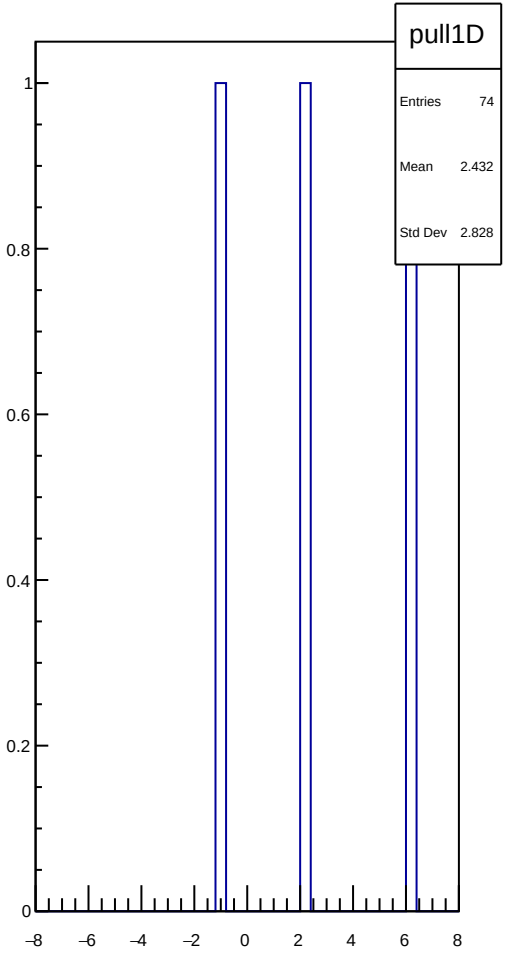

pull1D
Entries 74
Mean −1.403
Std Dev 5.397

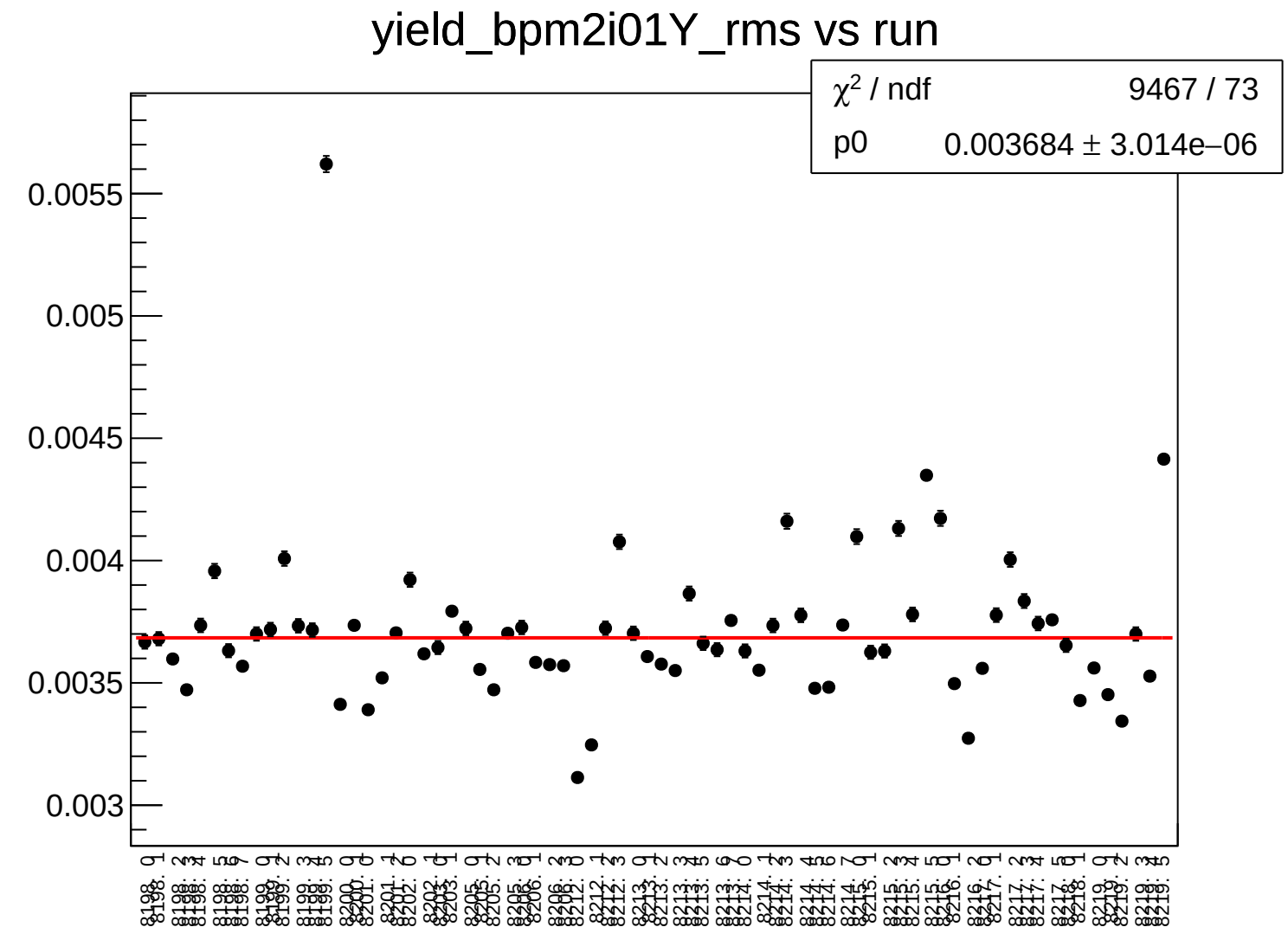

yield_bpm1i06Y_rms vs run
χ² / ndf 2.849e+04 / 73
p0 0.006992 ± 5.758e−06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

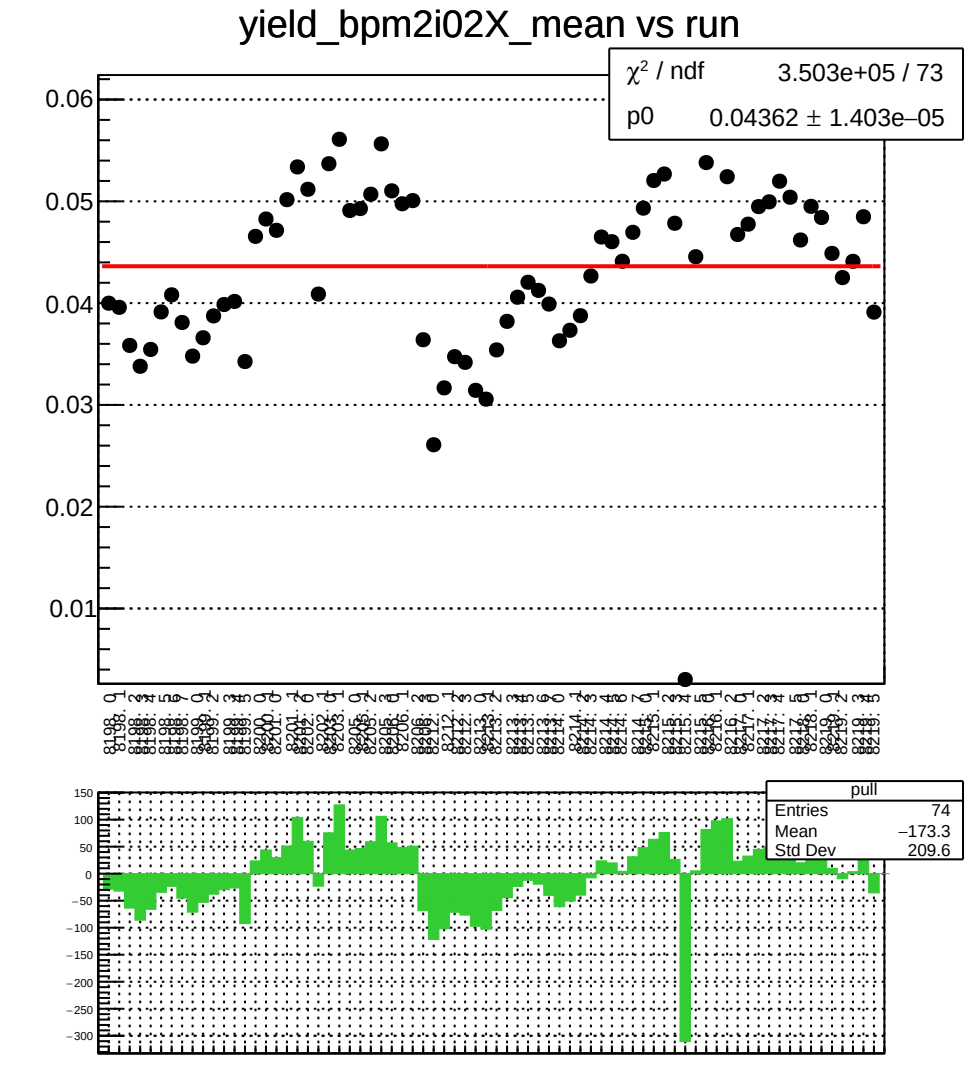

yield_bpm2i01X_mean vs run
χ² / ndf 2.866e+05 / 73
p0 0.8903 ± 5.315e−06
0.895
0.89
0.885
0.88
0.875
pull
Entries 74
Mean −102.3
Std Dev 135.6
100
0
−100
−200
−300
pull1D
Entries 74
Mean 0.8621
Std Dev 3.906
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

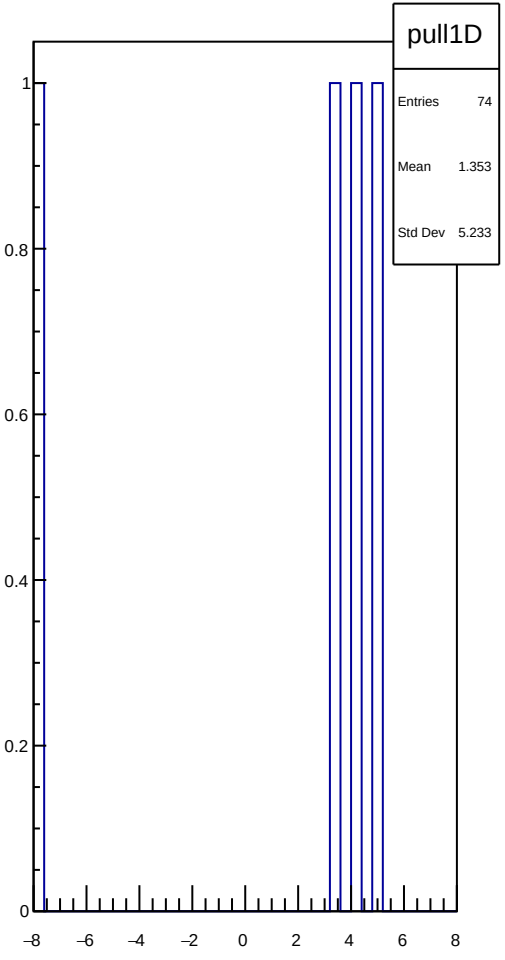

yield_bpm2i01X_rms vs run
χ² / ndf 1.477e+04 / 73
p0 0.004585 ± 3.758e−06
0.009
0.008
0.007
0.006
0.005
0.004

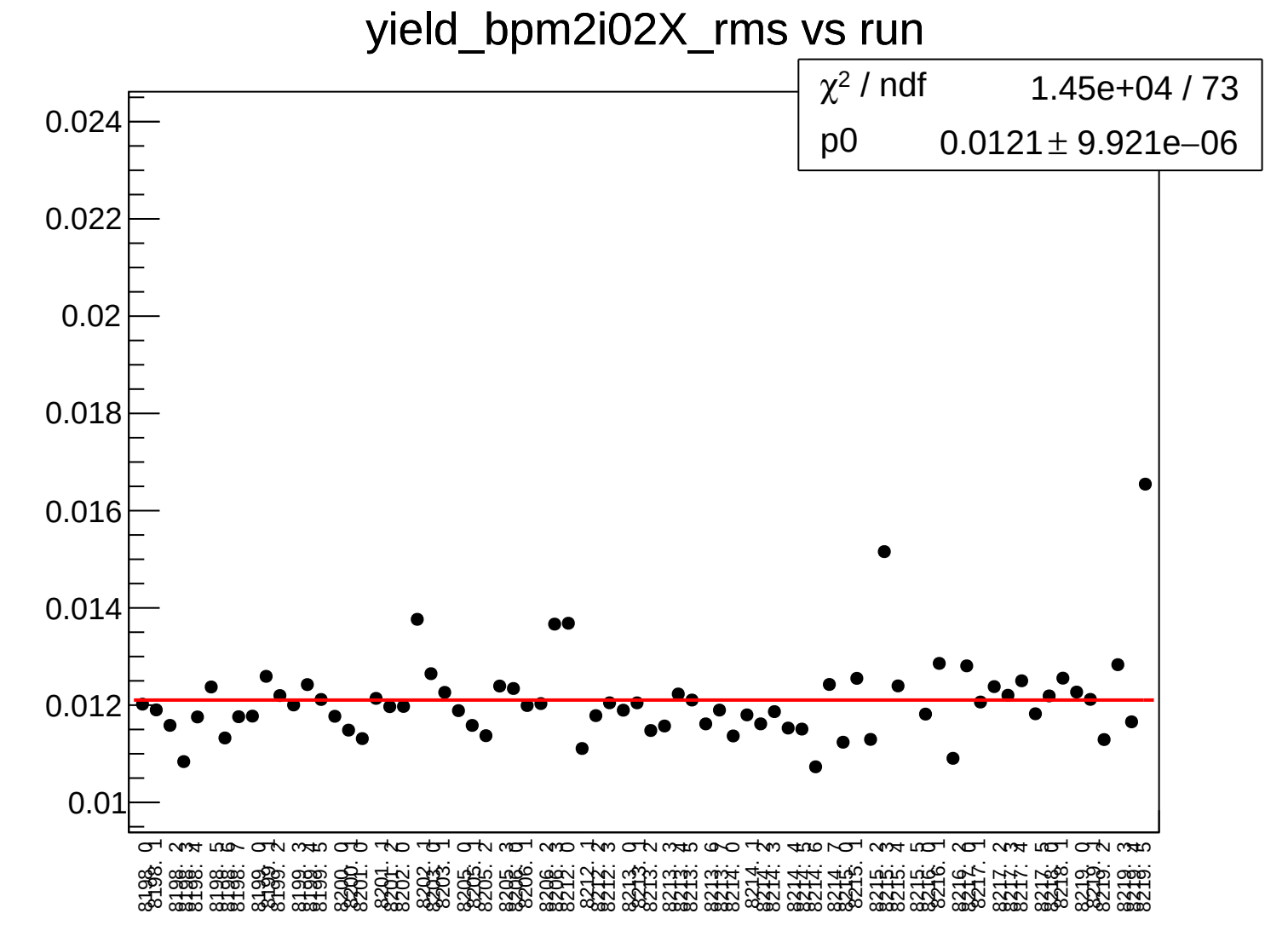

yield_bpm2i01Y_mean vs run
χ² / ndf 9.748e+05 / 73
p0 −4.74 ± 4.263e−06
−4.73
−4.735
−4.74
−4.745
−4.75
pull
Entries 74
Mean 1071
Std Dev 1038
300
200
100
0
−100
−200

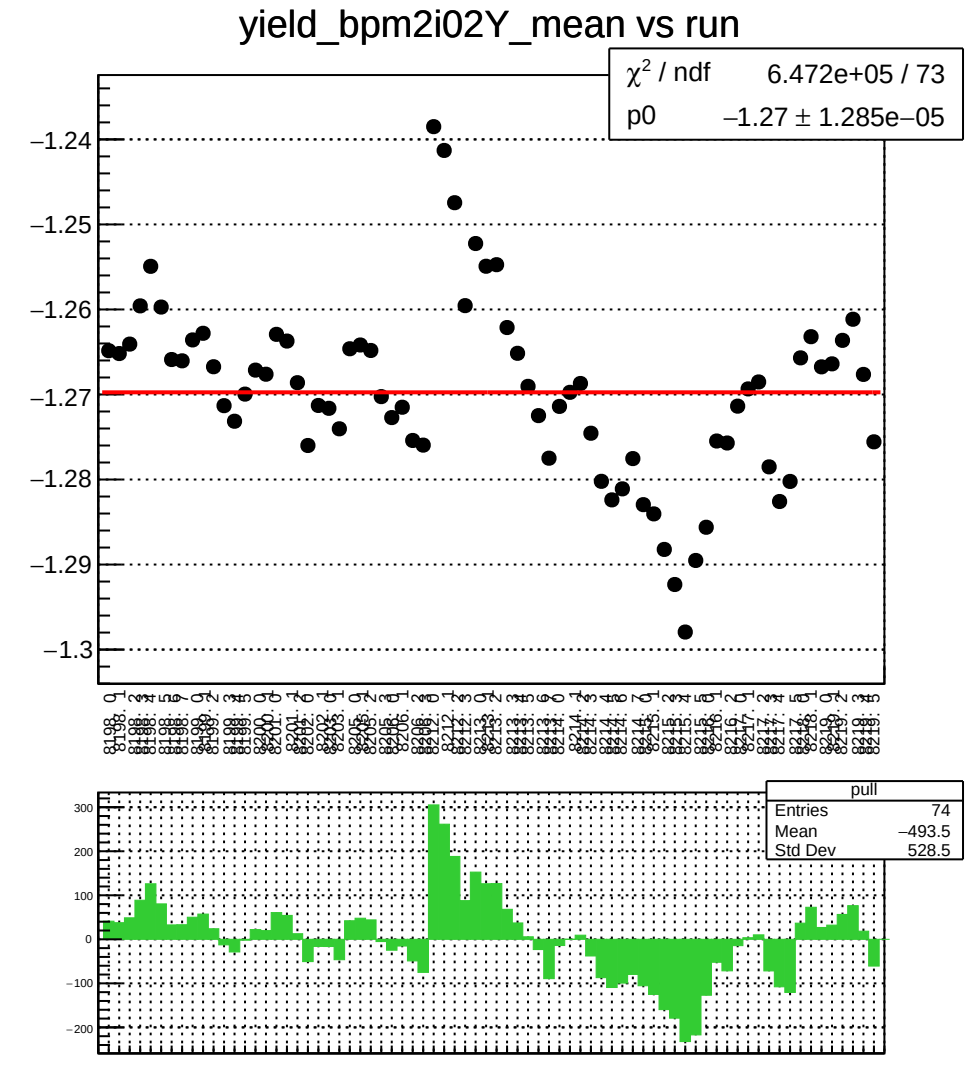

pull1D
Entries 74
Mean 2.432
Std Dev 2.828
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

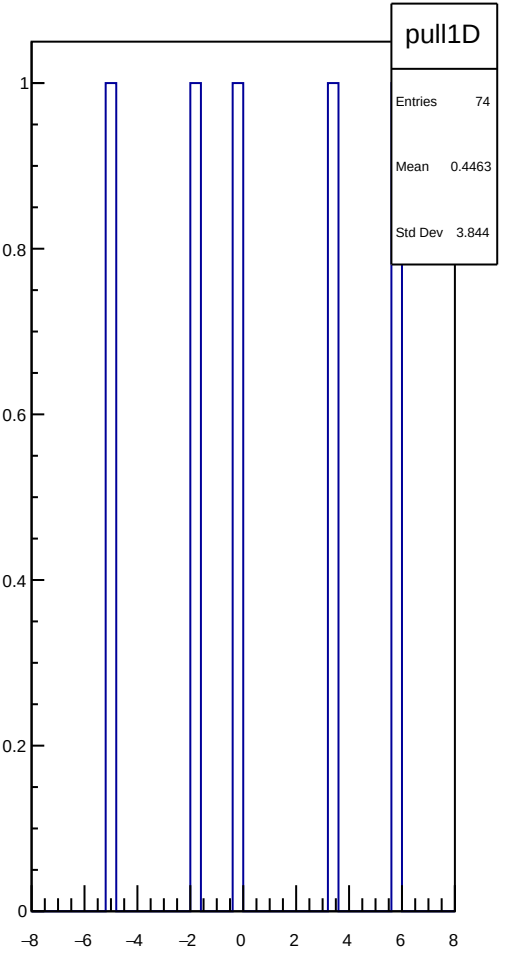

yield_bpm2i01Y_rms vs run
χ² / ndf 9467 / 73
p0 0.003684 ± 3.014e−06
0.0055
0.005
0.0045
0.004
0.0035
0.003

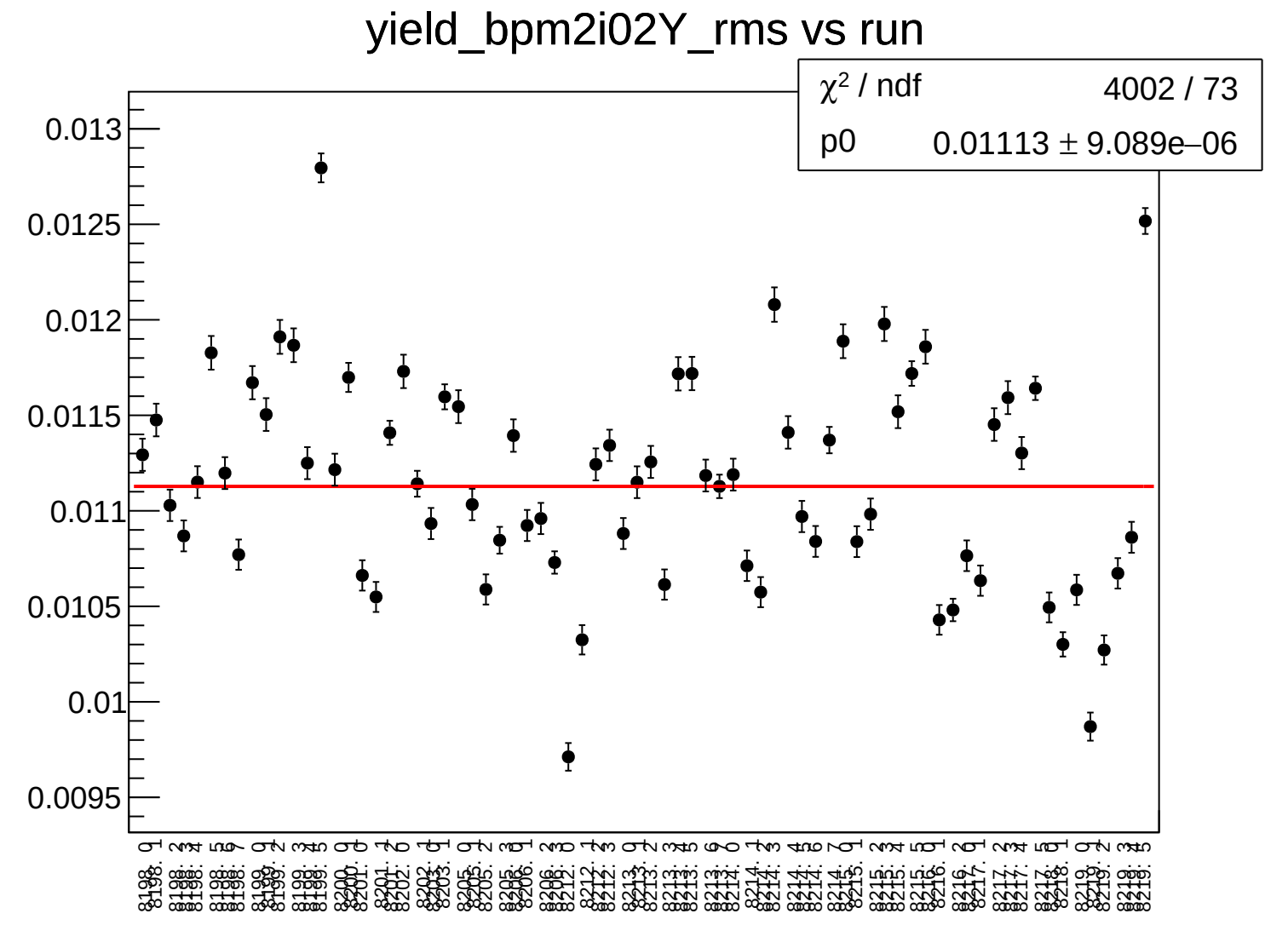

yield_bpm2i02X_mean vs run
χ² / ndf 3.503e+05 / 73
p0 0.04362 ± 1.403e−05
0.06
0.05
0.04
0.03
0.02
0.01
pull
Entries 74
Mean −173.3
Std Dev 209.6
150
100
50
0
−50
−100
−150
−200
−250
−300

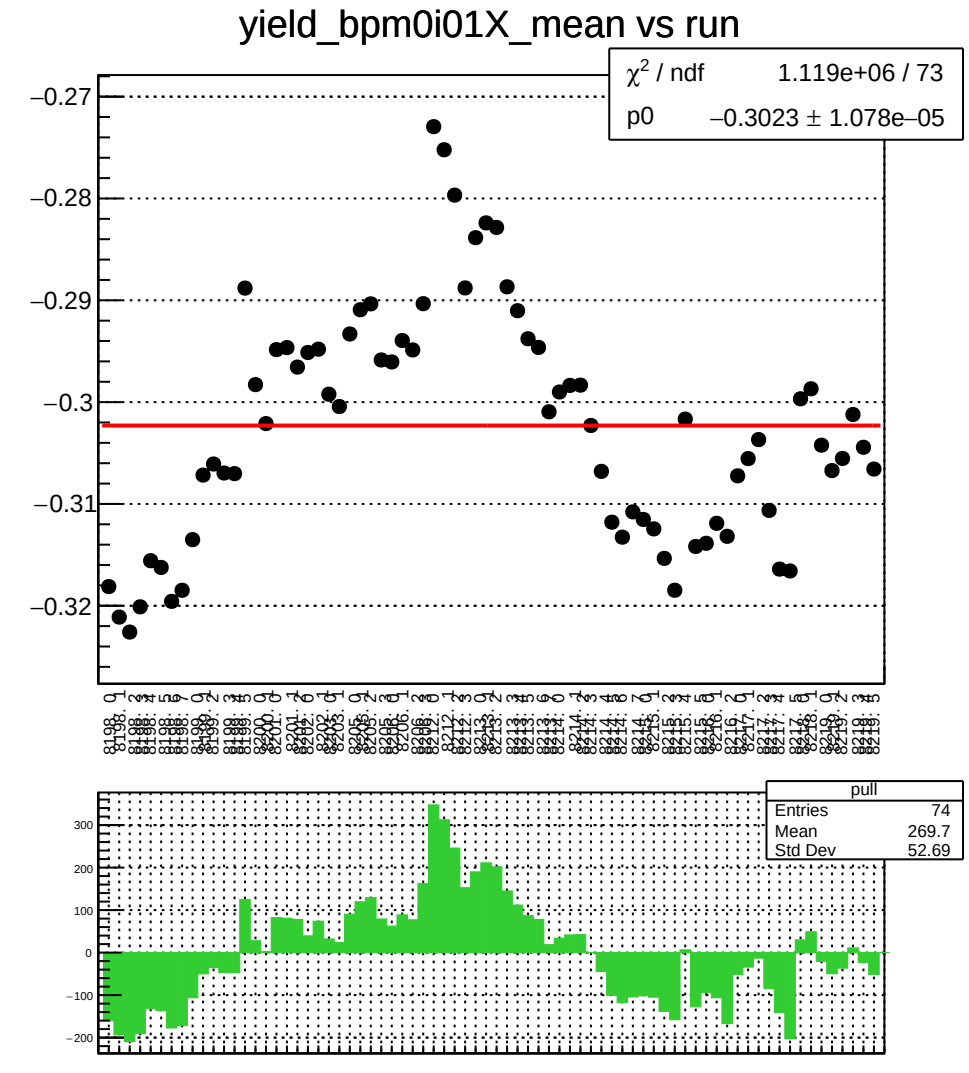

pull1D
Entries 74
Mean 1.353
Std Dev 5.233
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

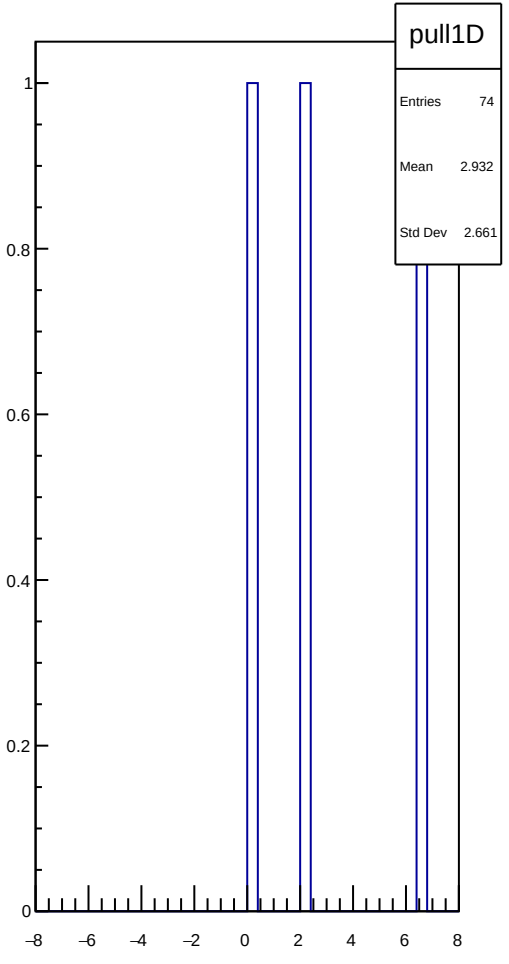

yield_bpm2i02X_rms vs run
χ² / ndf 1.45e+04 / 73
p0 0.0121 ± 9.921e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01

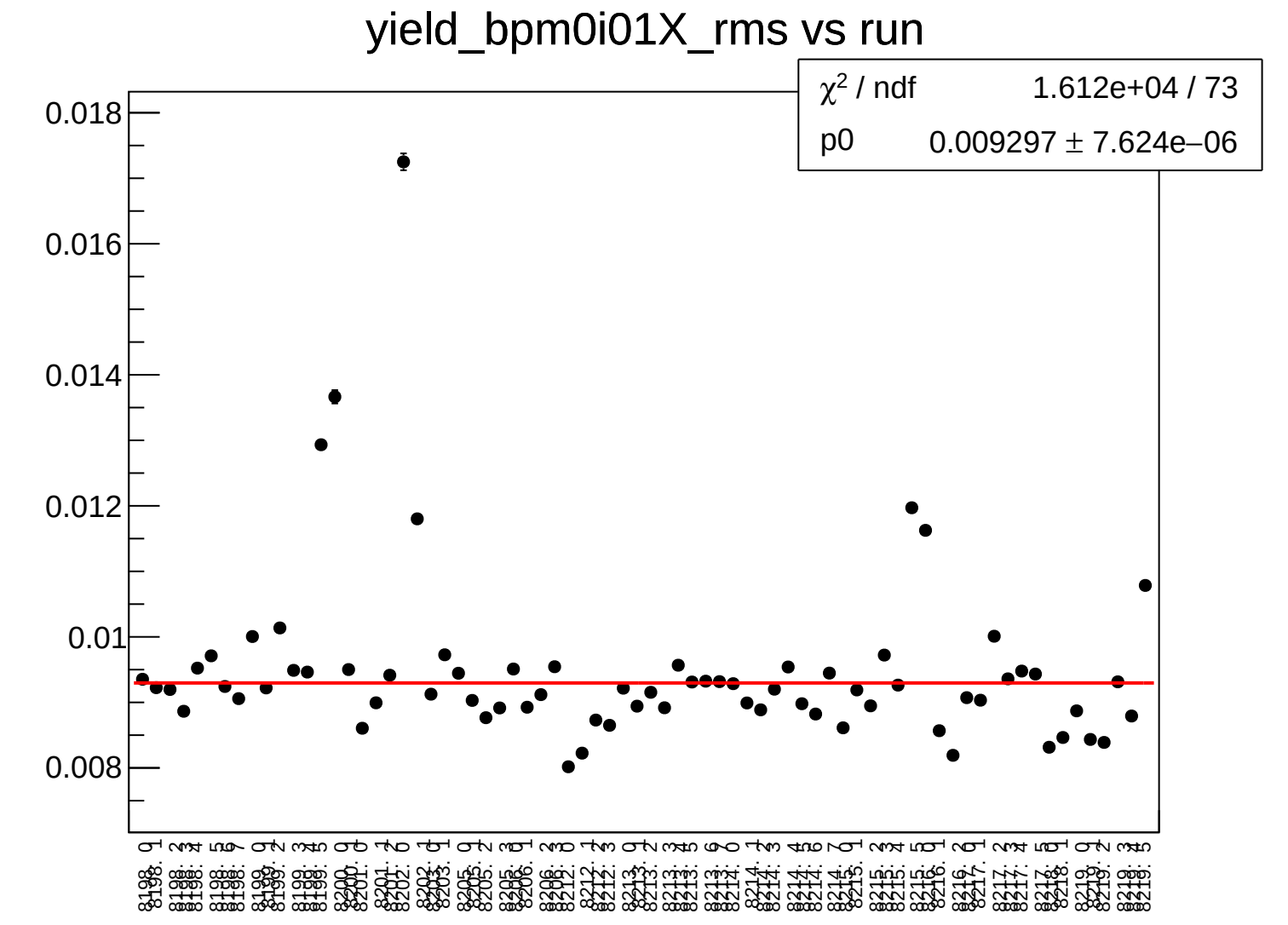

yield_bpm2i02Y_mean vs run
χ² / ndf 6.472e+05 / 73
p0 −1.27 ± 1.285e−05
−1.24
−1.25
−1.26
−1.27
−1.28
−1.29
−1.3
pull
Entries 74
Mean −493.5
Std Dev 528.5
300
200
100
0
−100
−200

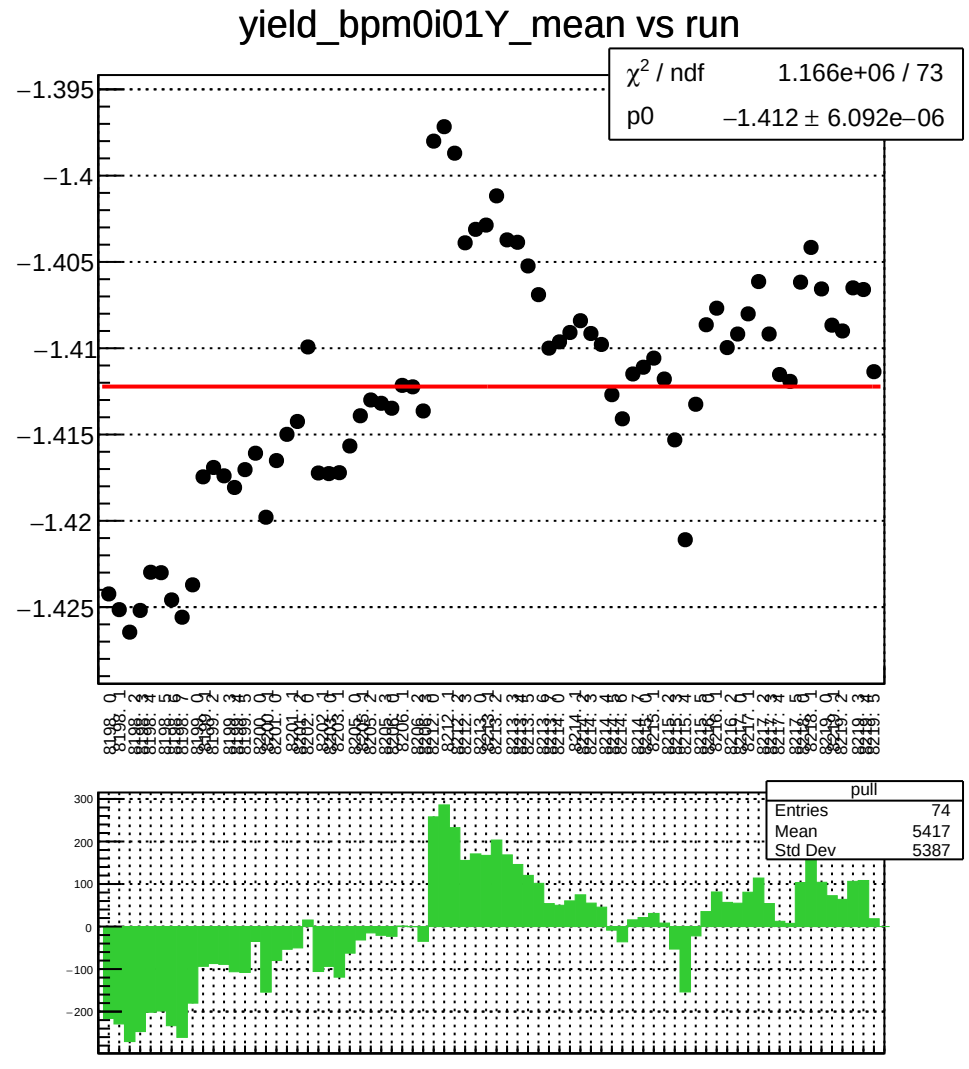

pull1D
Entries 74
Mean 0.4463
Std Dev 3.844
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

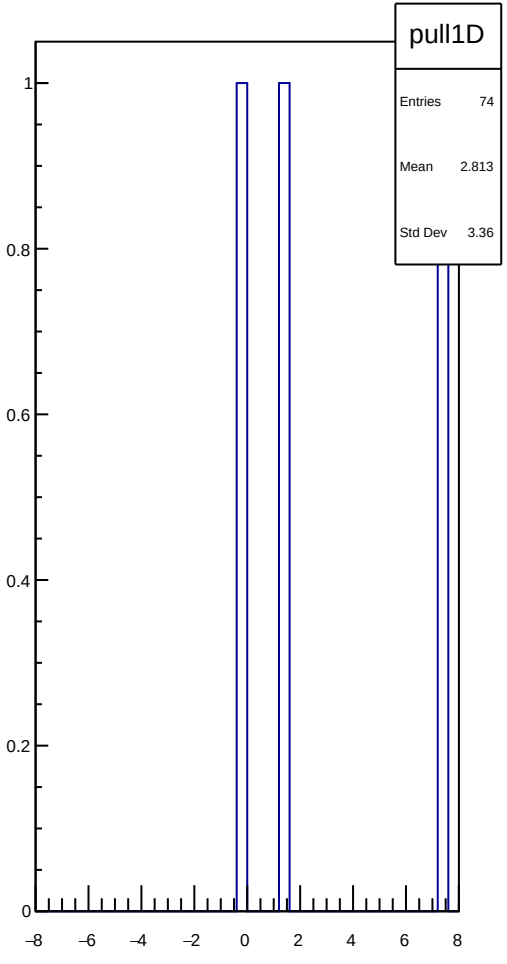

yield_bpm2i02Y_rms vs run
χ² / ndf 4002 / 73
p0 0.01113 ± 9.089e–06
0.013
0.0125
0.012
0.0115
0.011
0.0105
0.01
0.0095

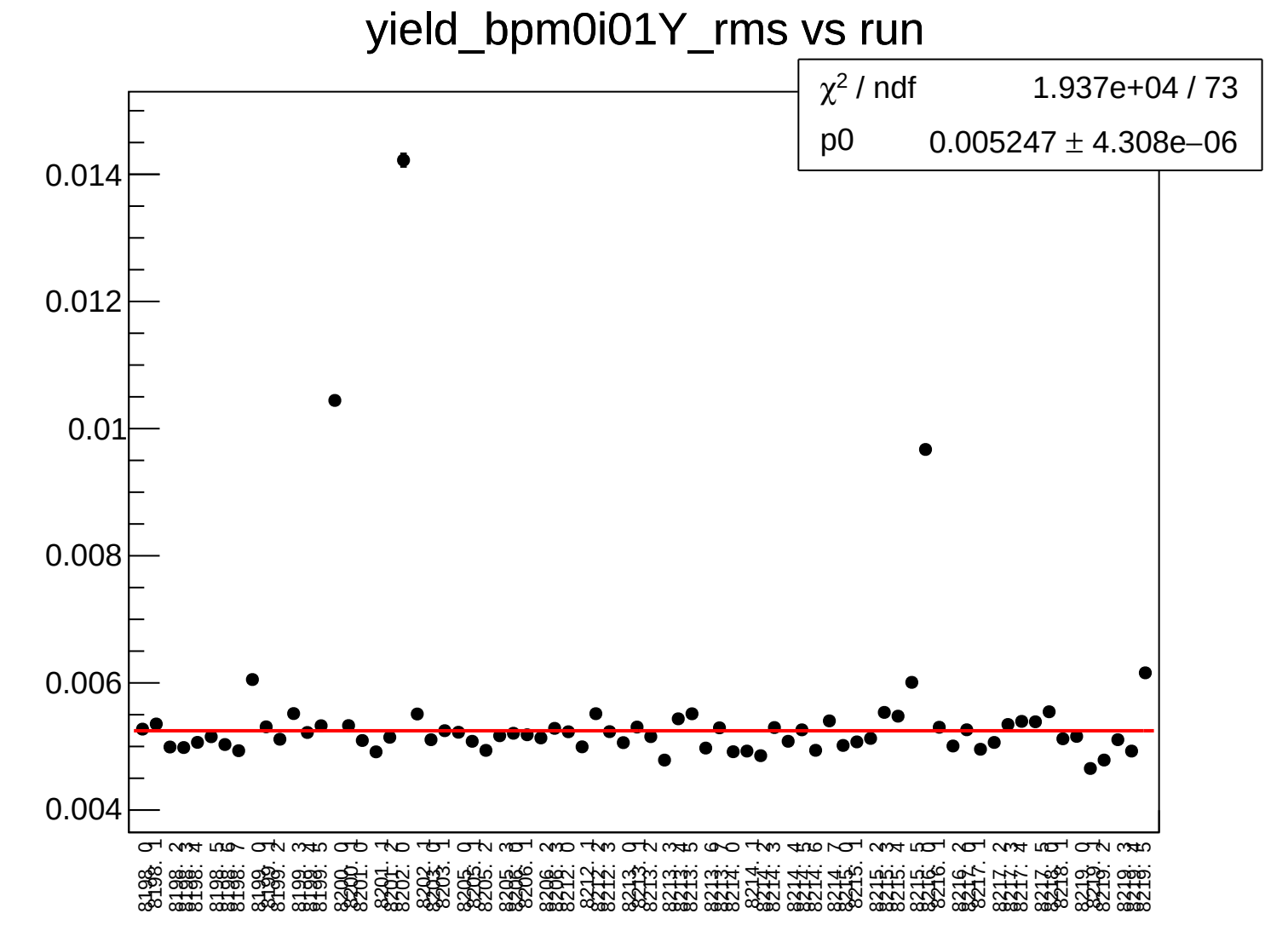

yield_bpm0i01X_mean vs run
χ² / ndf 1.119e+06 / 73
p0 −0.3023 ± 1.078e−05
−0.27
−0.28
−0.29
−0.3
−0.31
−0.32
pull
Entries 74
Mean 269.7
Std Dev 52.69
300
200
100
0
−100
−200

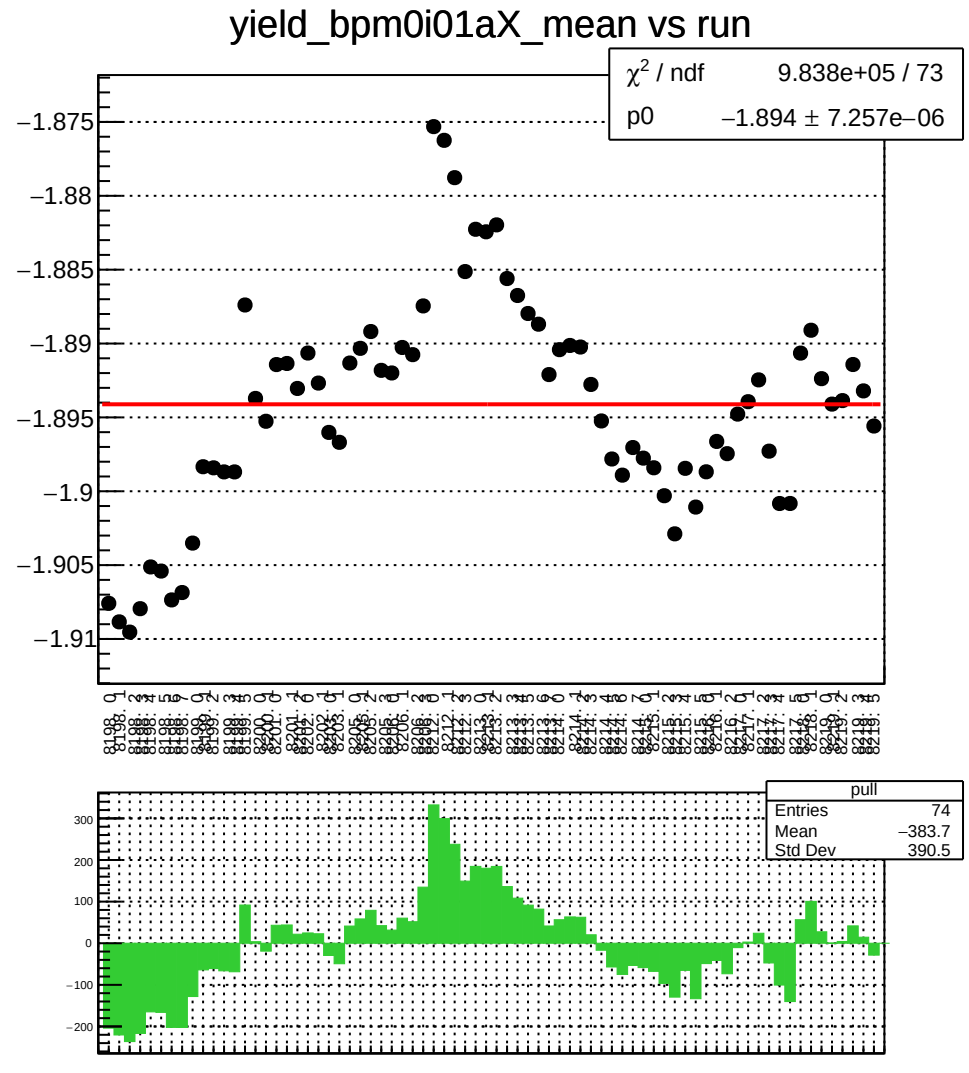

pull1D
Entries 74
Mean 2.932
Std Dev 2.661
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

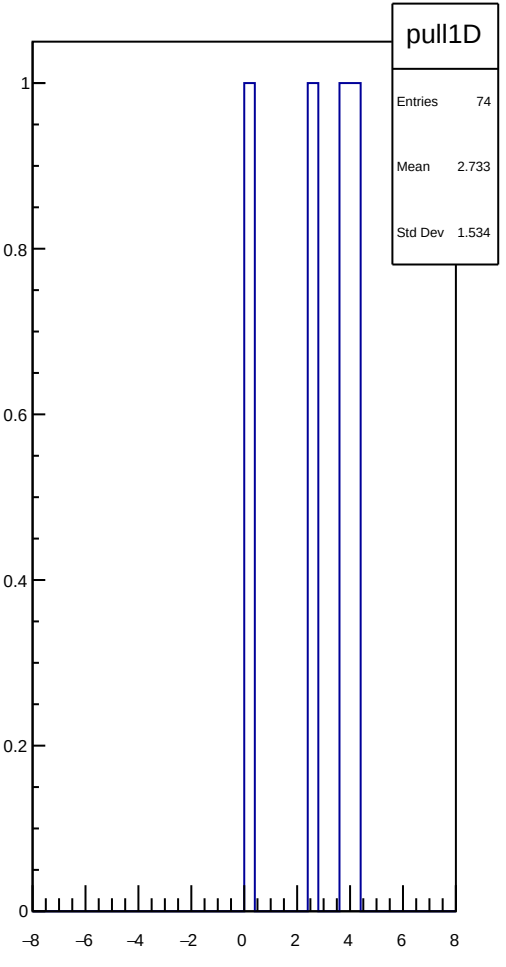

yield_bpm0i01X_rms vs run
χ2 / ndf 1.612e+04 / 73
p0 0.009297 ± 7.624e−06
0.018
0.016
0.014
0.012
0.01
0.008

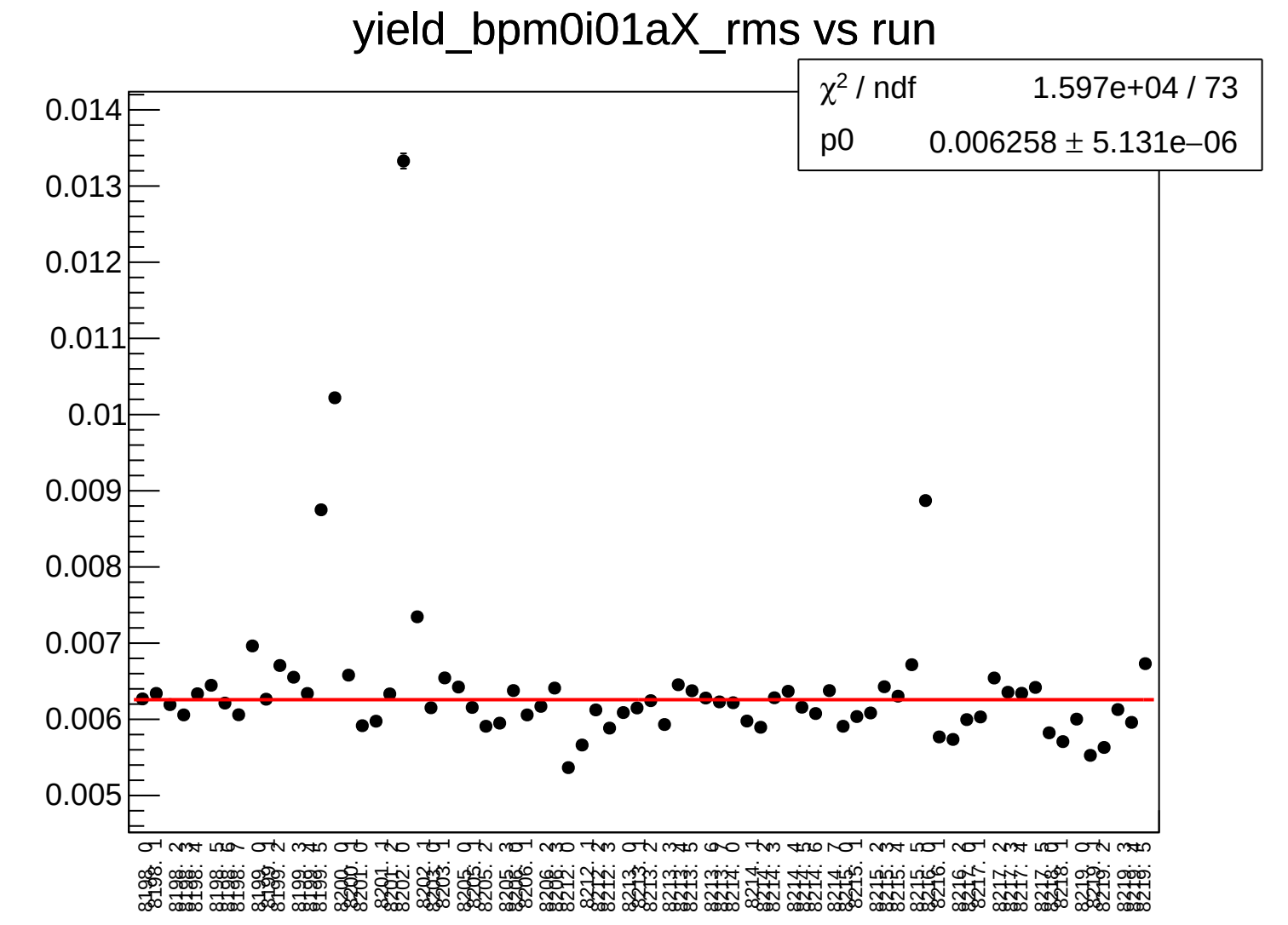

yield_bpm0i01Y_mean vs run
χ² / ndf 1.166e+06 / 73
p0 −1.412 ± 6.092e−06
−1.395
−1.4
−1.405
−1.41
−1.415
−1.42
−1.425
pull
Entries 74
Mean 5417
Std Dev 5387
300
200
100
0
−100
−200

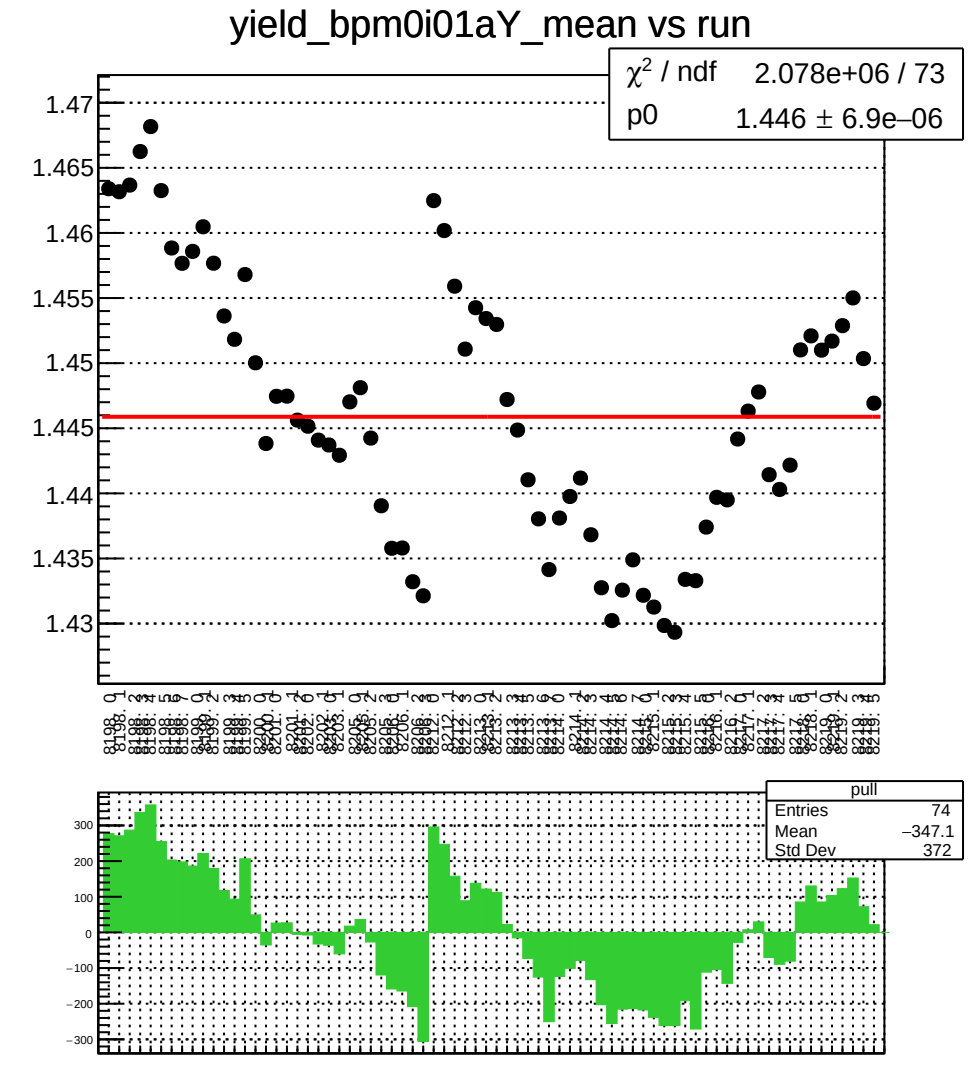

pull1D
Entries 74
Mean 2.813
Std Dev 3.36
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

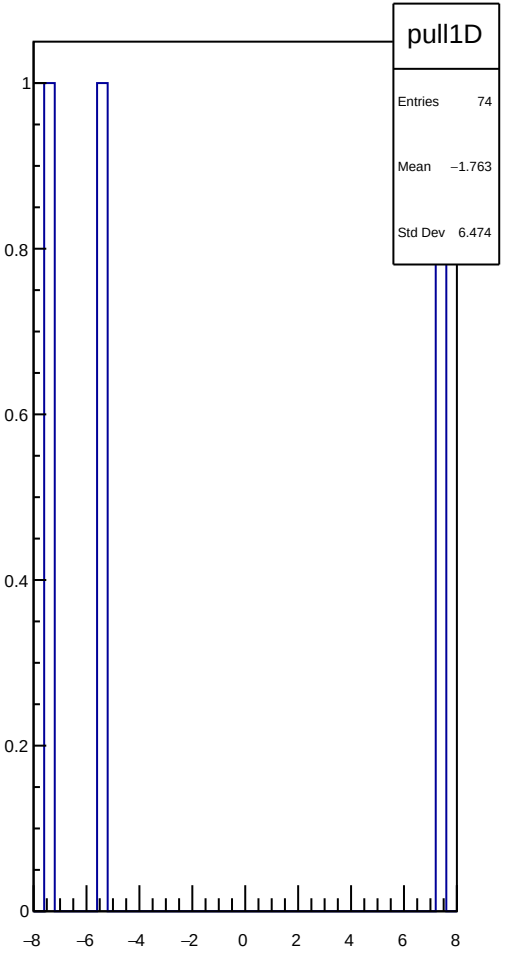

yield_bpm0i01Y_rms vs run
χ² / ndf 1.937e+04 / 73
p0 0.005247 ± 4.308e−06
0.014
0.012
0.01
0.008
0.006
0.004

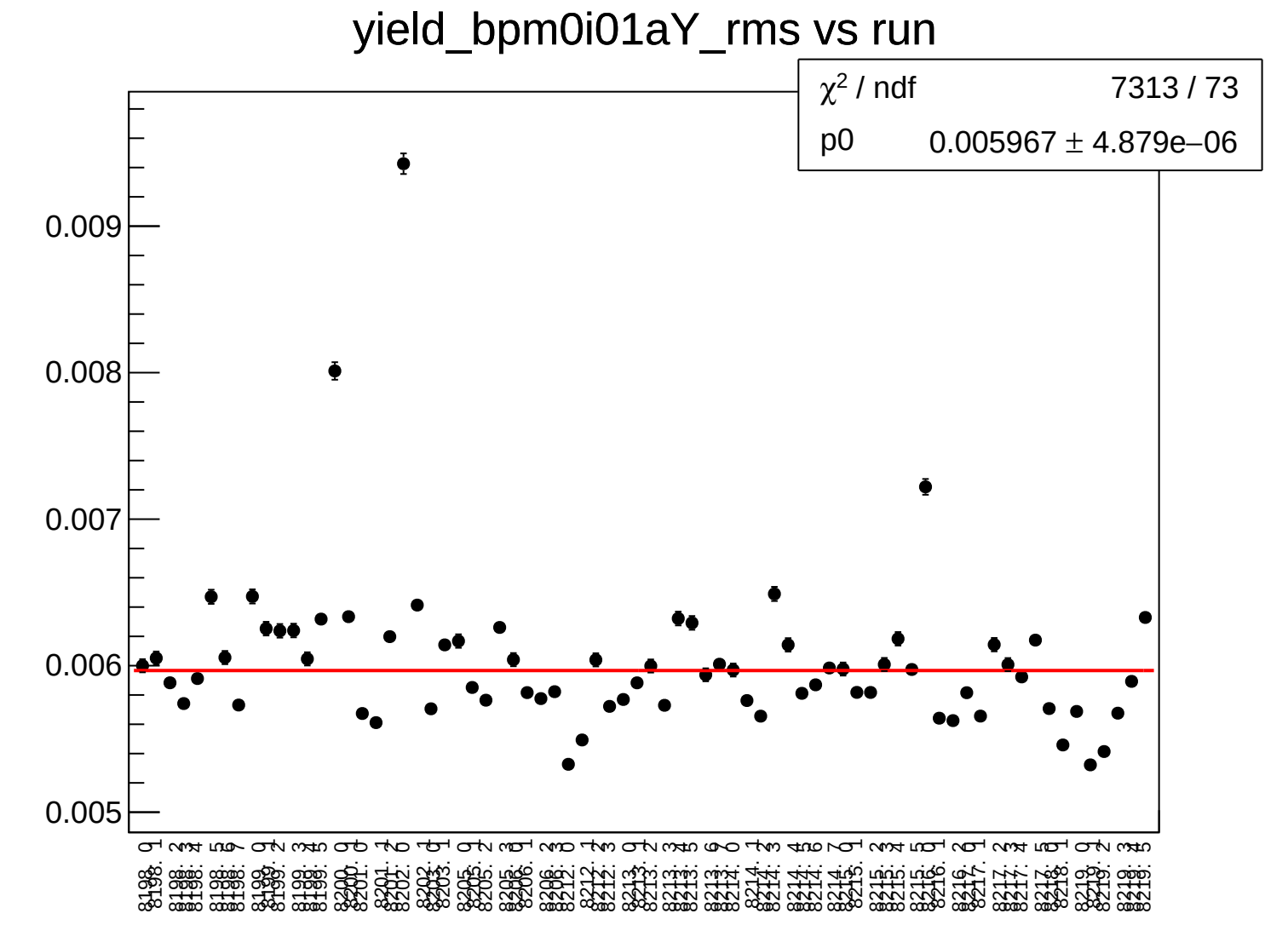

yield_bpm0i01aX_mean vs run
χ² / ndf 9.838e+05 / 73
p0 −1.894 ± 7.257e−06
−1.875
−1.88
−1.885
−1.89
−1.895
−1.9
−1.905
−1.91
pull
Entries 74
Mean −383.7
Std Dev 390.5
300
200
100
0
−100
−200

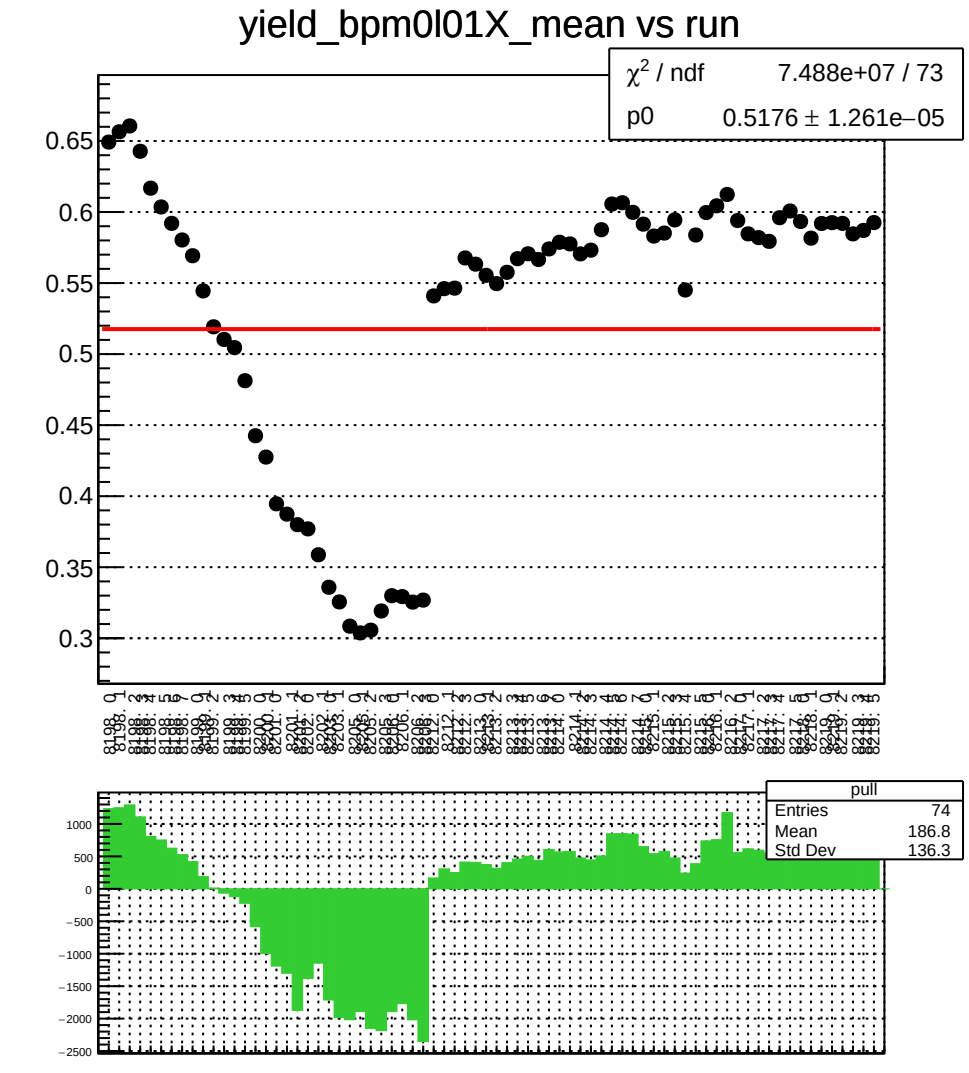

pull1D
Entries 74
Mean 2.733
Std Dev 1.534
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

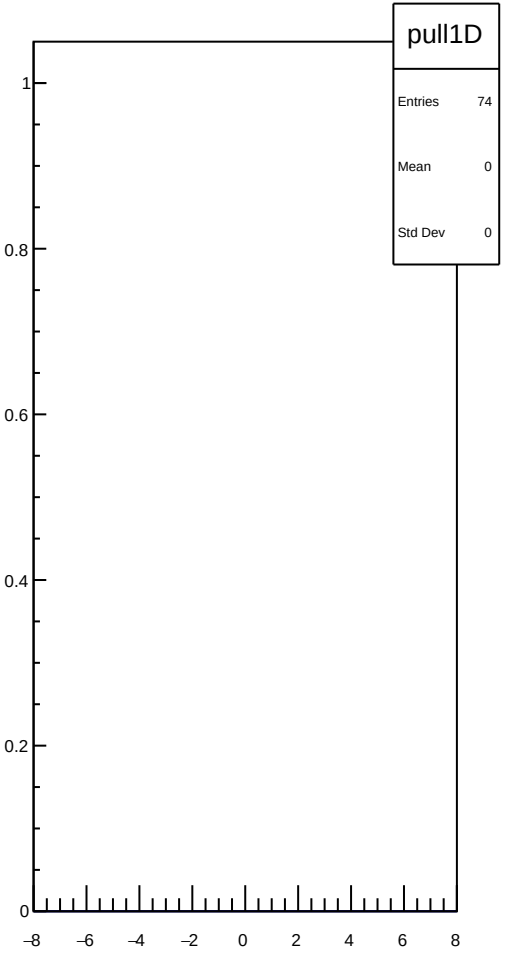

yield_bpm0i01aX_rms vs run
χ² / ndf 1.597e+04 / 73
p0 0.006258 ± 5.131e−06
0.014
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005

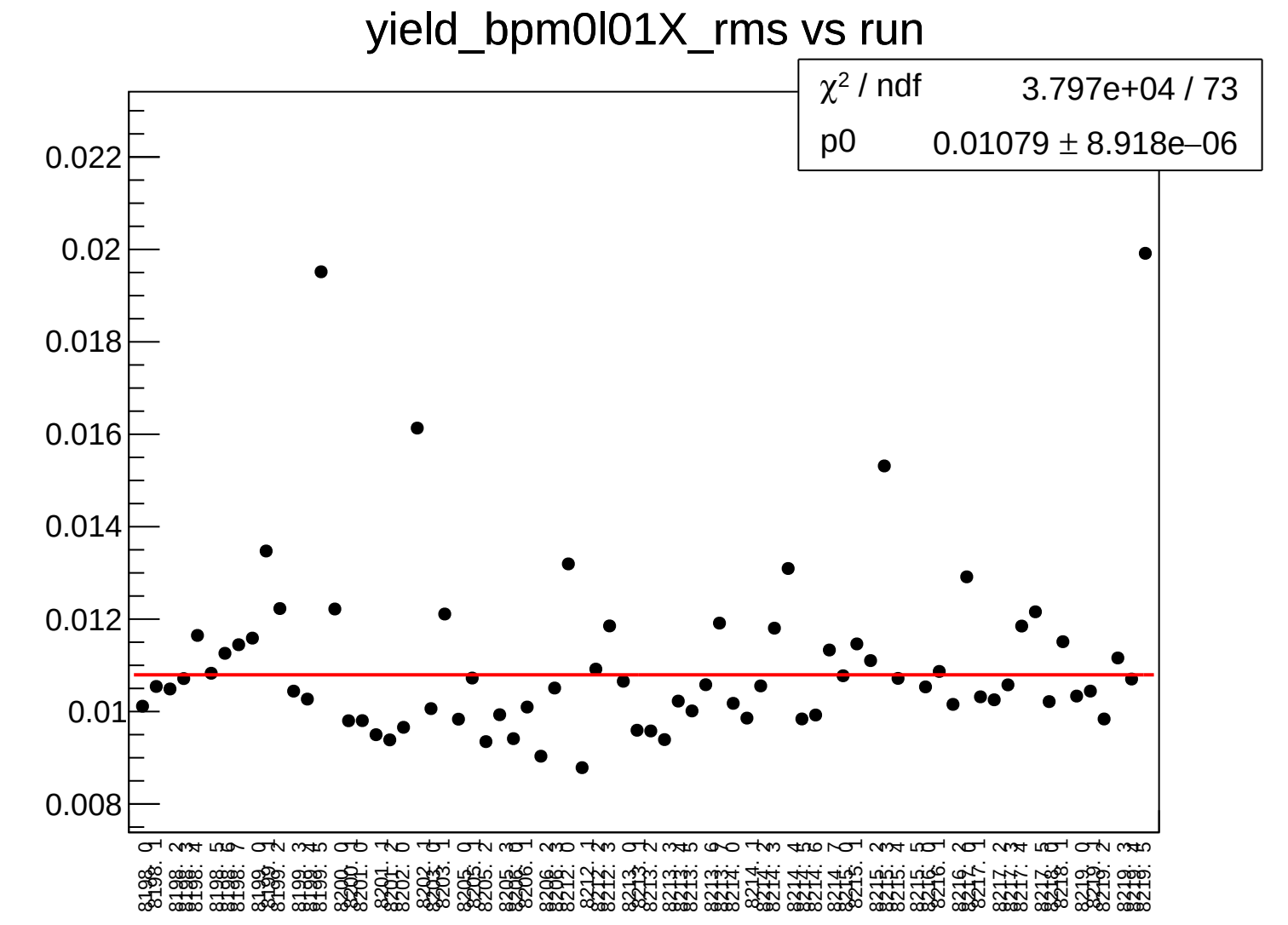

yield_bpm0i01aY_mean vs run
χ² / ndf 2.078e+06 / 73
p0 1.446 ± 6.9e–06
1.47
1.465
1.46
1.455
1.45
1.445
1.44
1.435
1.43
pull
Entries 74
Mean –347.1
Std Dev 372
300
200
100
0
–100
–200
–300

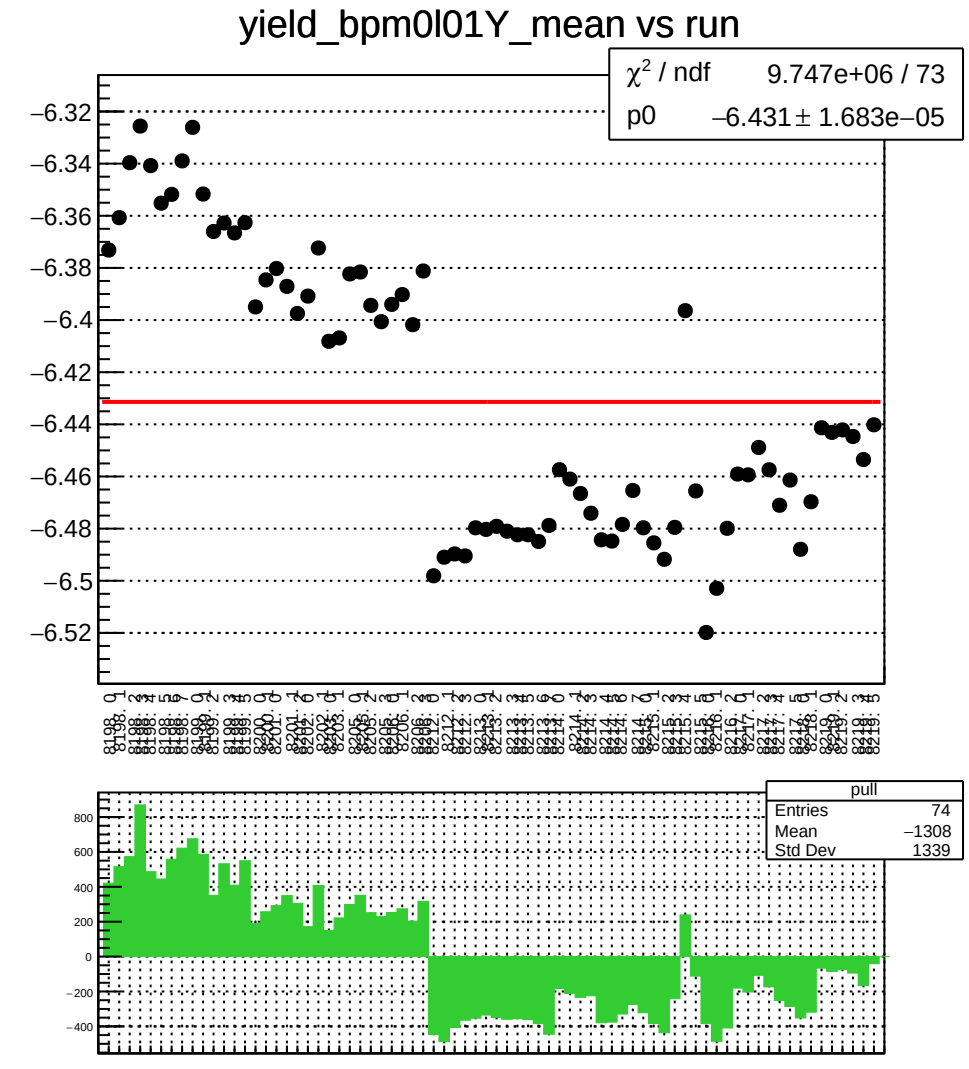

pull1D
Entries 74
Mean –1.763
Std Dev 6.474
1
0.8
0.6
0.4
0.2
0
–8
–6
–4
–2
0
2
4
6
8

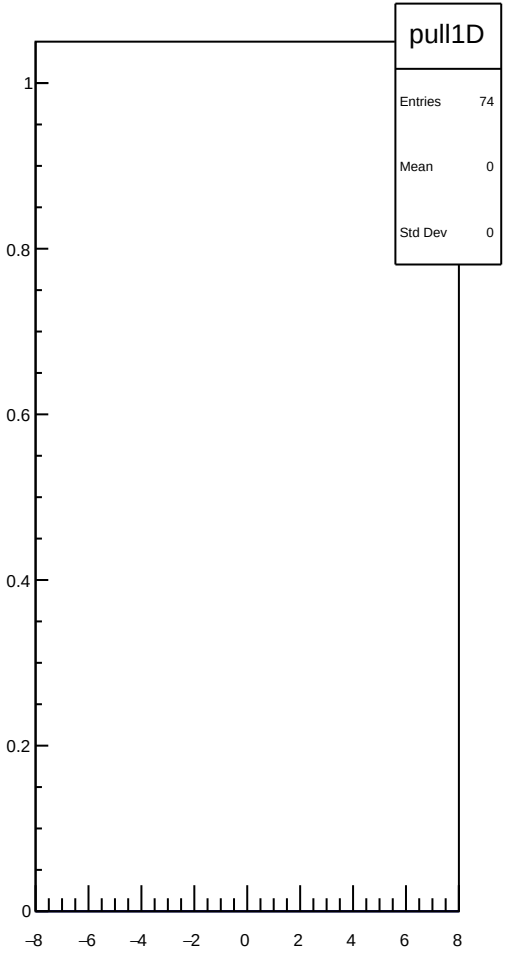

yield_bpm0i01aY_rms vs run
χ² / ndf 7313 / 73
p0 0.005967 ± 4.879e−06
0.009
0.008
0.007
0.006
0.005

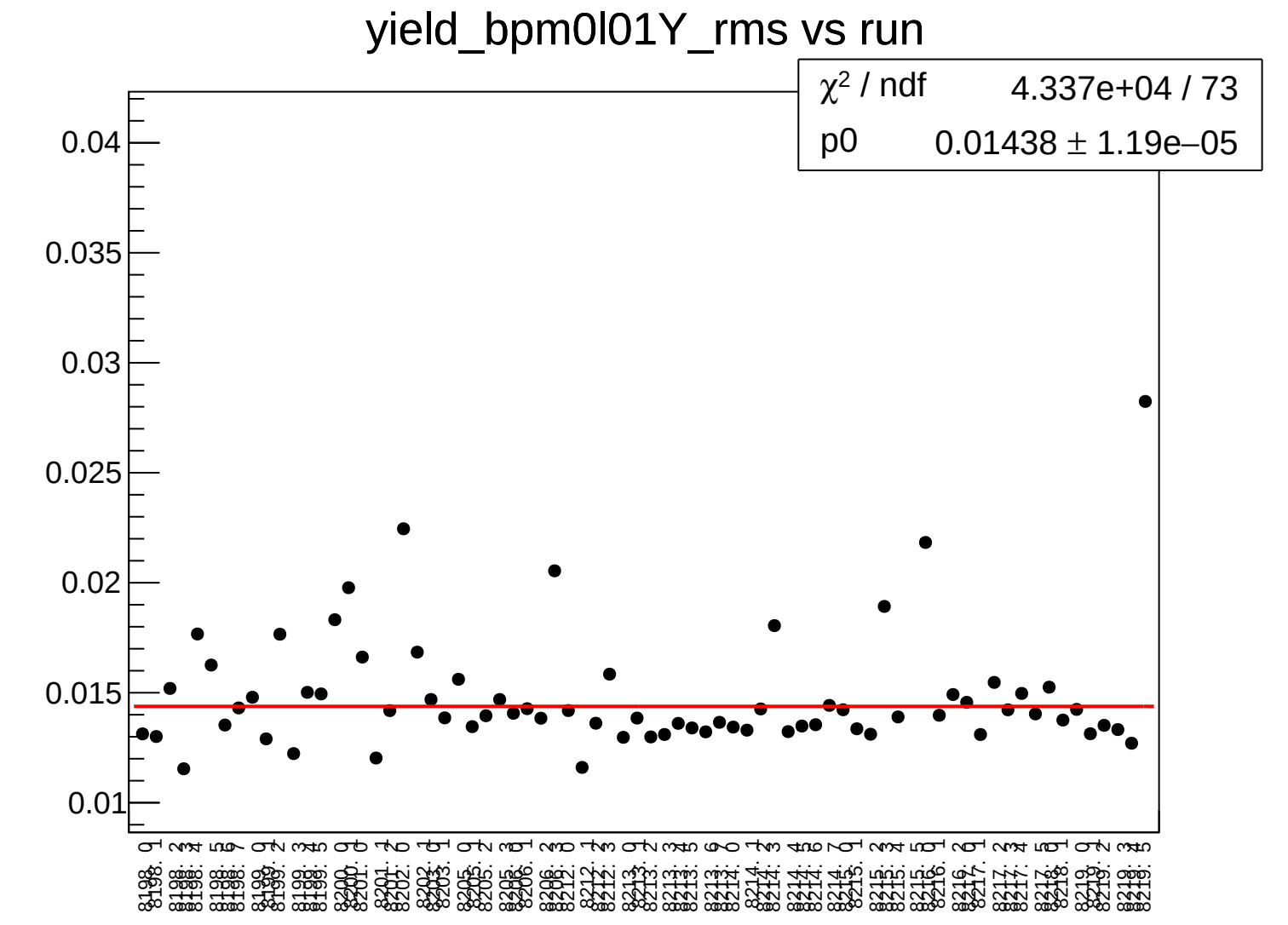

yield_bpm0l01X_mean vs run
χ² / ndf 7.488e+07 / 73
p0 0.5176 ± 1.261e−05
pull
Entries 74
Mean 186.8
Std Dev 136.3

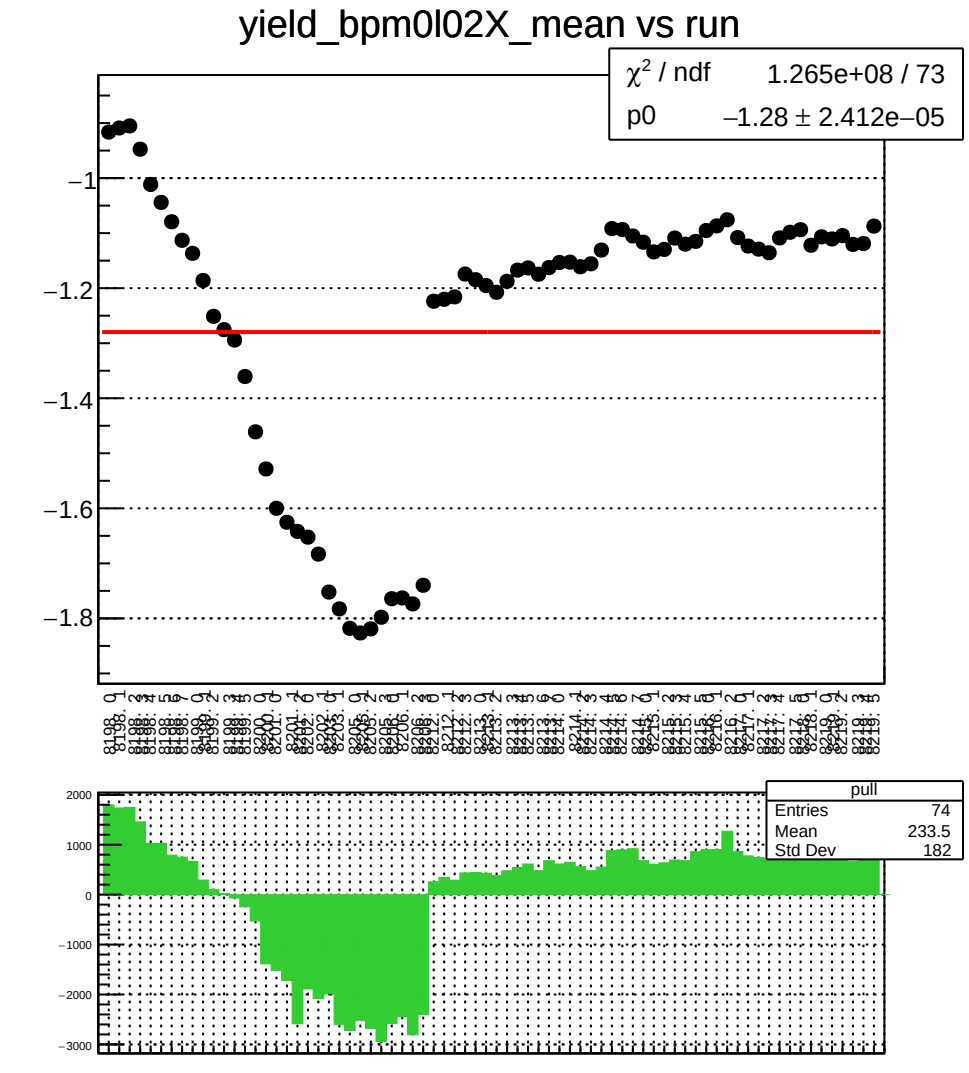

pull1D
Entries 74
Mean 0
Std Dev 0

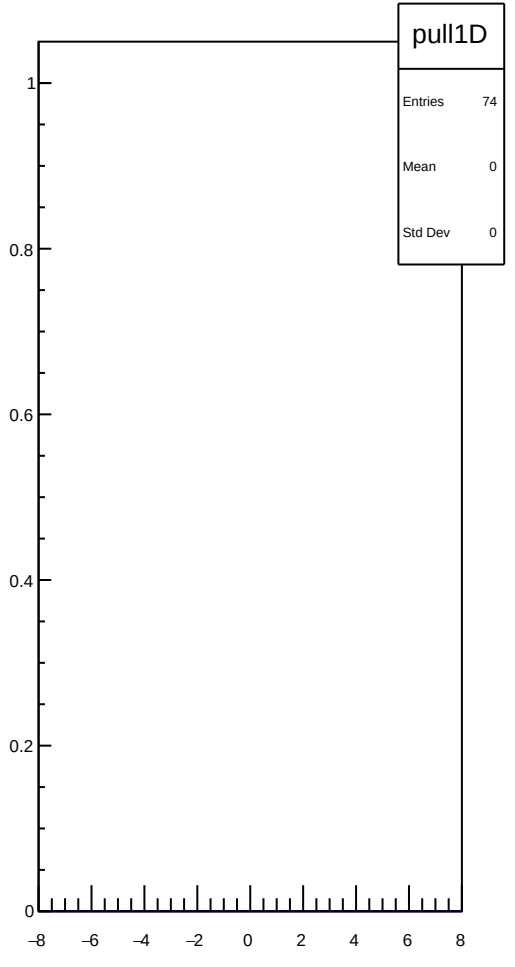

yield_bpm0l01X_rms vs run
χ² / ndf 3.797e+04 / 73
p0 0.01079 ± 8.918e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

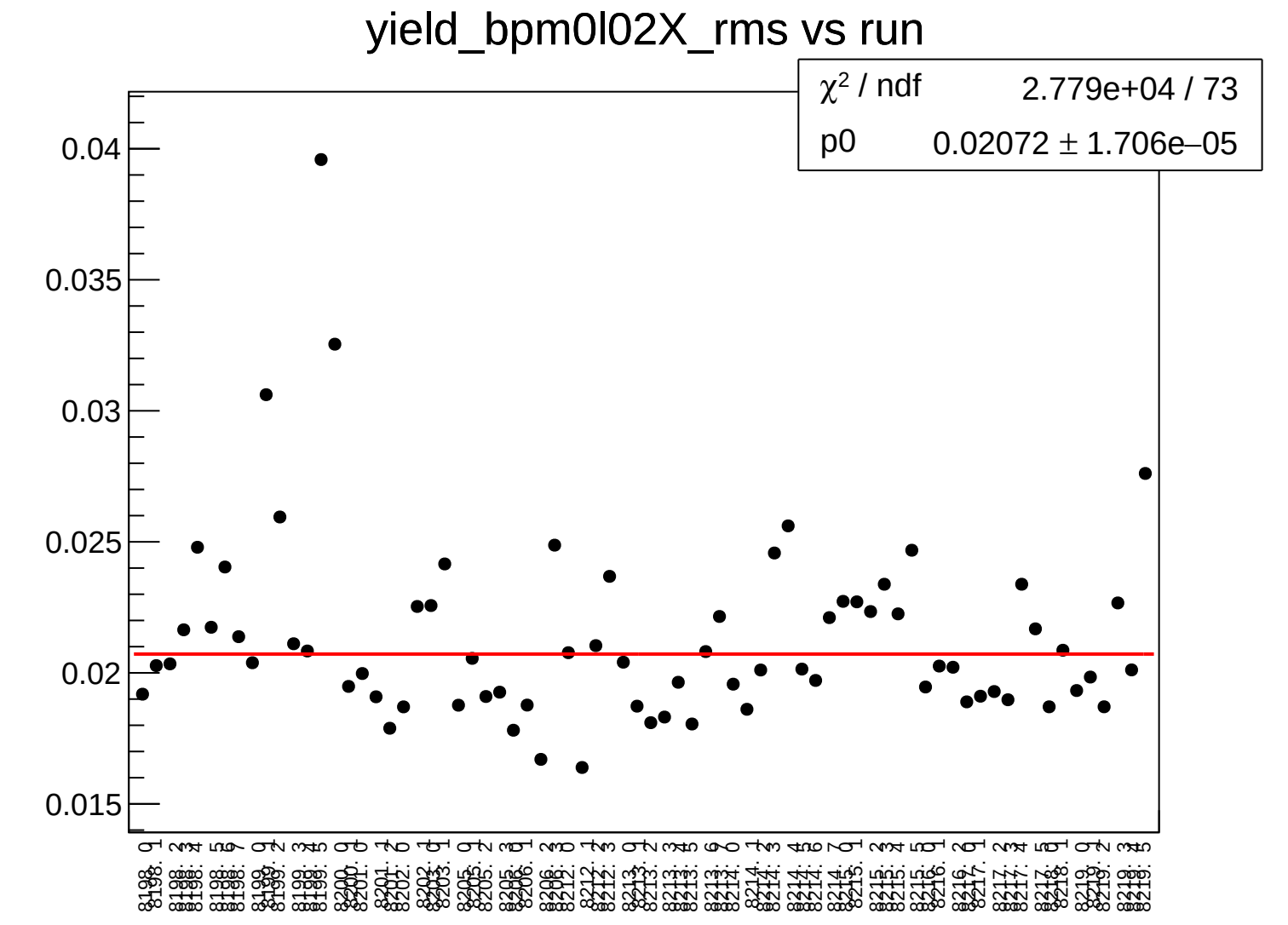

yield_bpm0l01Y_mean vs run
χ² / ndf 9.747e+06 / 73
p0 −6.431 ± 1.683e−05
−6.32
−6.34
−6.36
−6.38
−6.4
−6.42
−6.44
−6.46
−6.48
−6.5
−6.52
pull
Entries 74
Mean −1308
Std Dev 1339
800
600
400
200
0
−200
−400

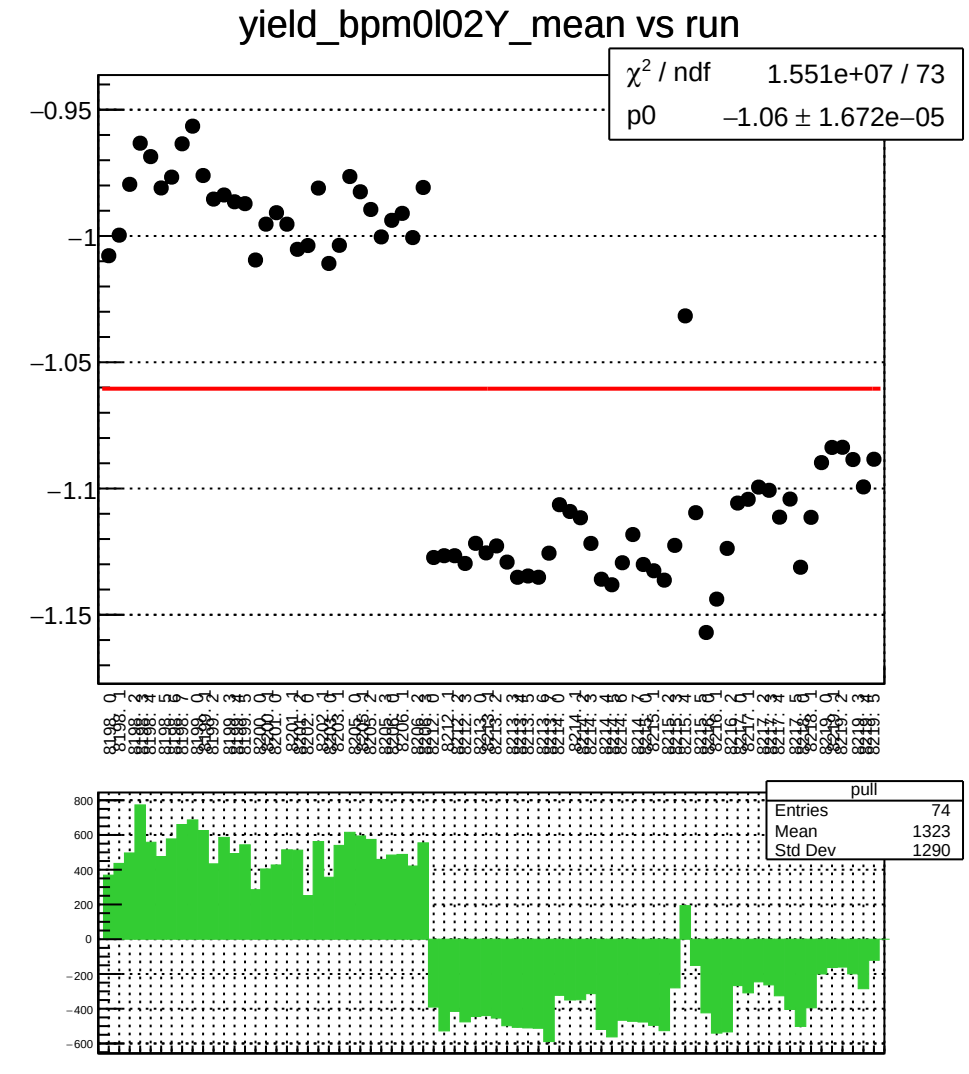

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

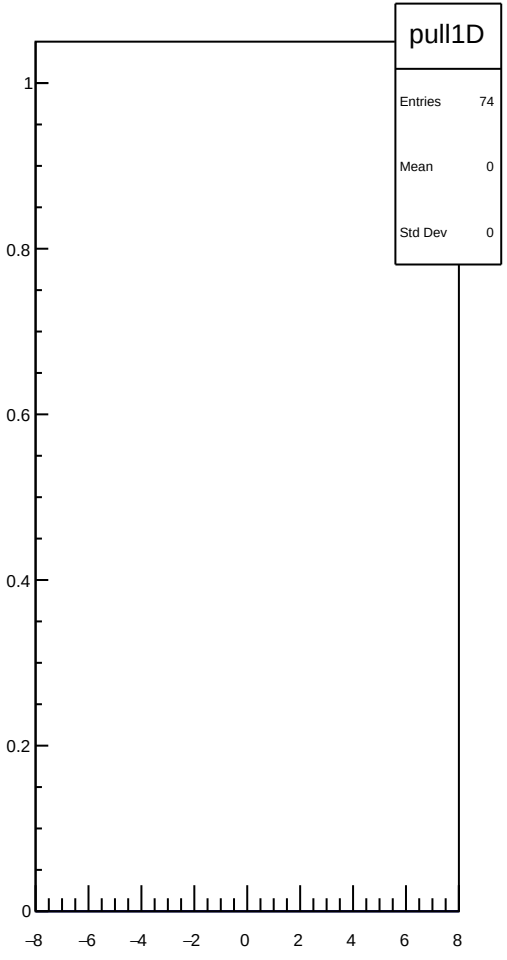

yield_bpm0l01Y_rms vs run
χ² / ndf 4.337e+04 / 73
p0 0.01438 ± 1.19e−05
0.04
0.035
0.03
0.025
0.02
0.015
0.01

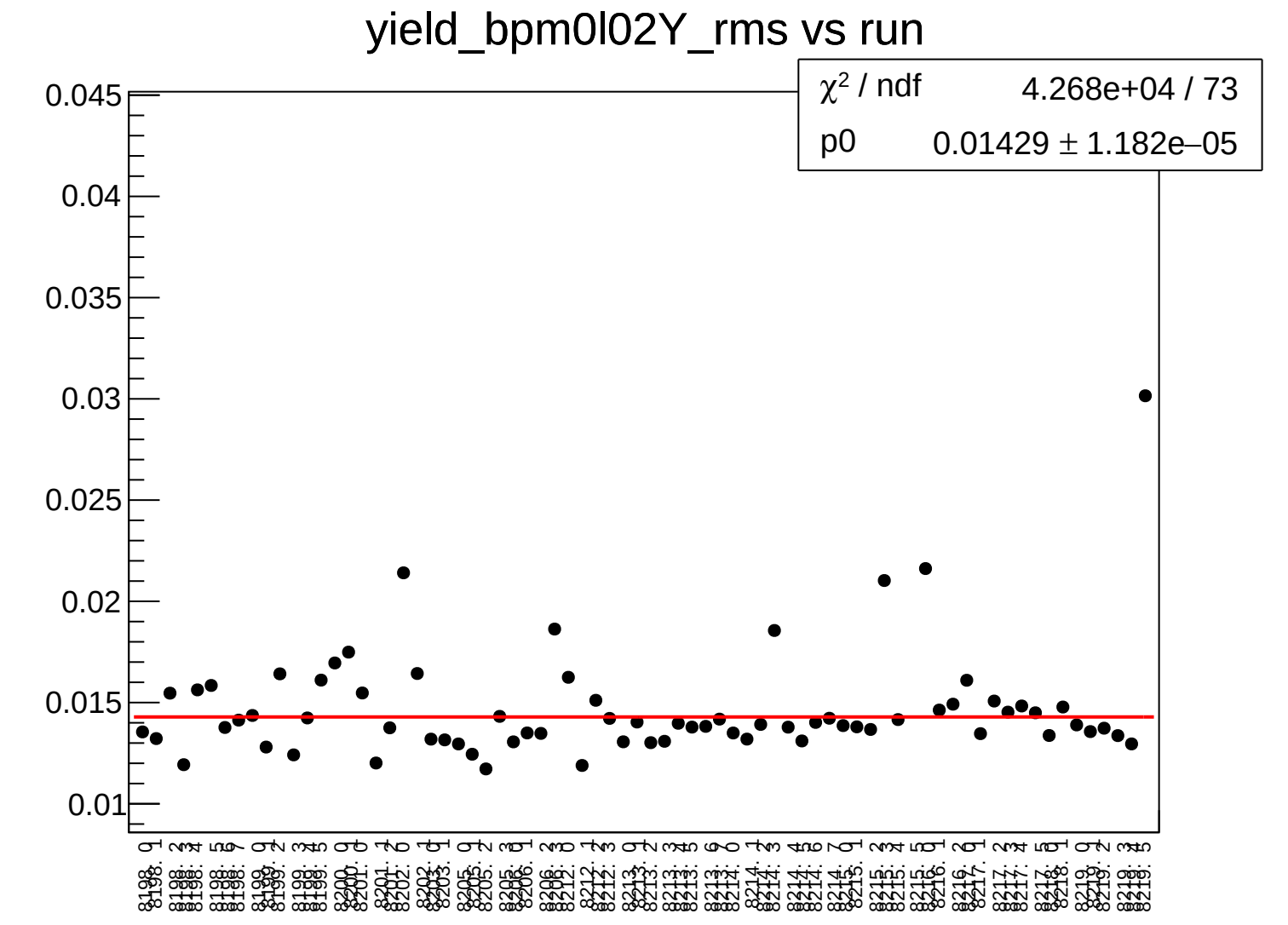

yield_bpm0l02X_mean vs run
χ² / ndf 1.265e+08 / 73
p0 −1.28 ± 2.412e−05
−1
−1.2
−1.4
−1.6
−1.8
pull
Entries 74
Mean 233.5
Std Dev 182
2000
1000
0
−1000
−2000
−3000

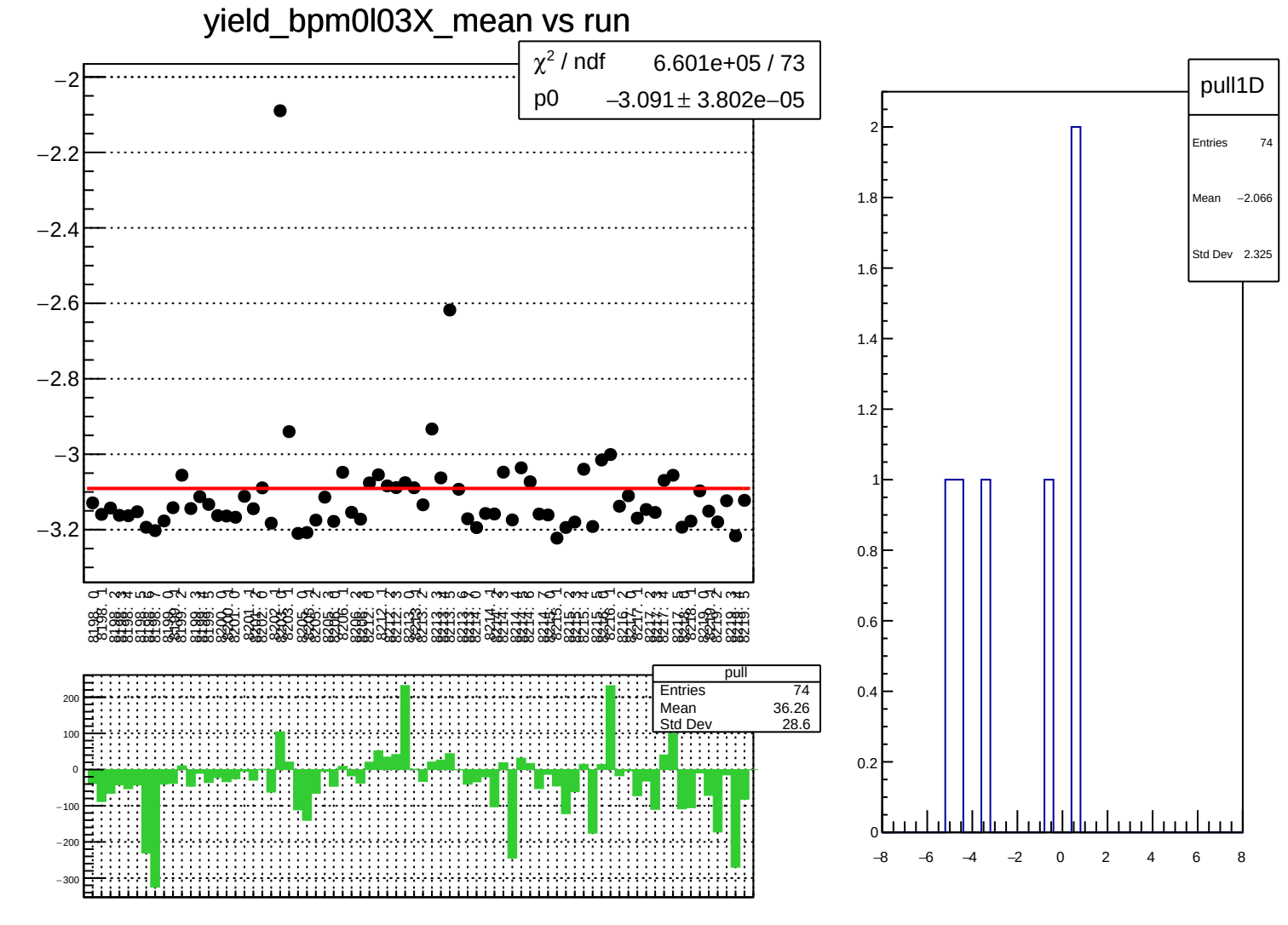

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

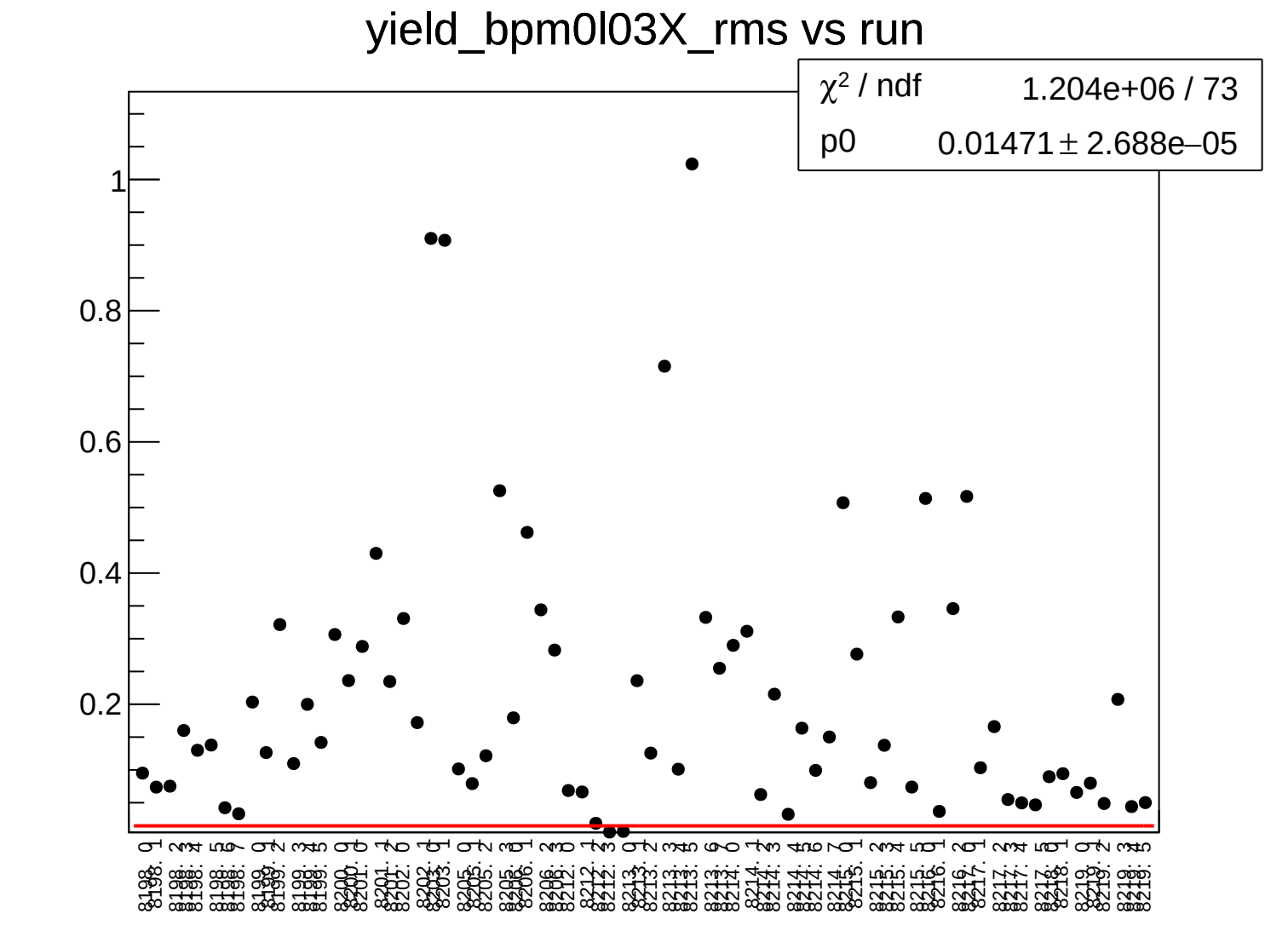

yield_bpm0l02X_rms vs run
χ² / ndf 2.779e+04 / 73
p0 0.02072 ± 1.706e−05
0.04
0.035
0.03
0.025
0.02
0.015

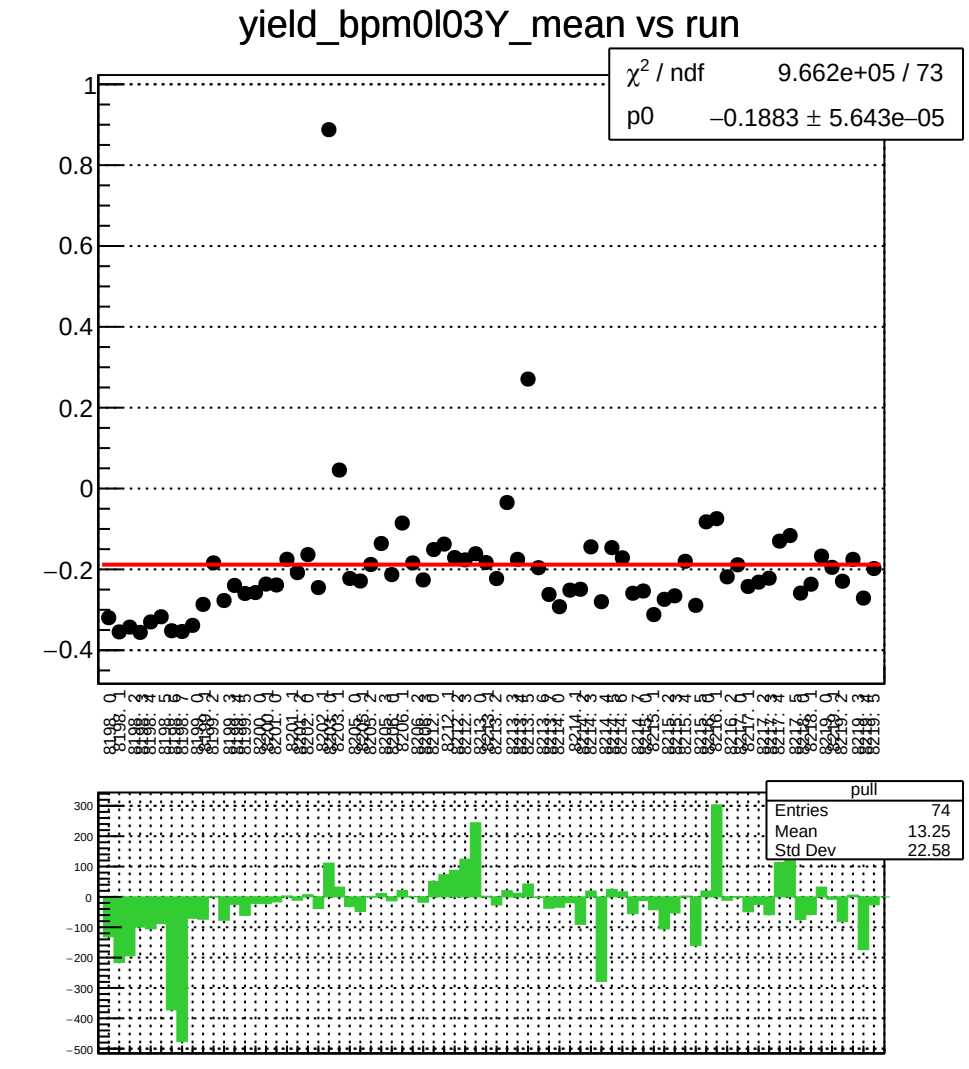

yield_bpm0l02Y_mean vs run
χ² / ndf 1.551e+07 / 73
p0 −1.06 ± 1.672e−05
−0.95
−1
−1.05
−1.1
−1.15
pull
Entries 74
Mean 1323
Std Dev 1290
800
600
400
200
0
−200
−400
−600

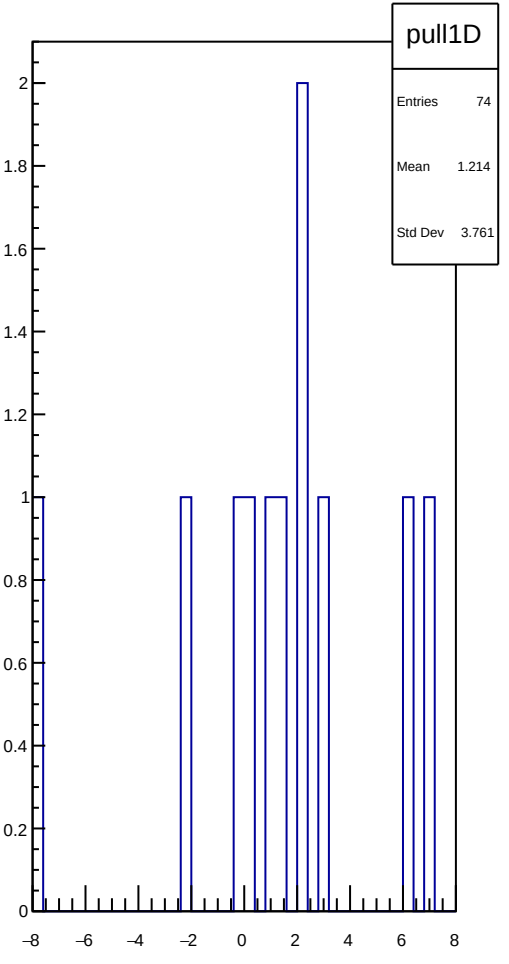

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

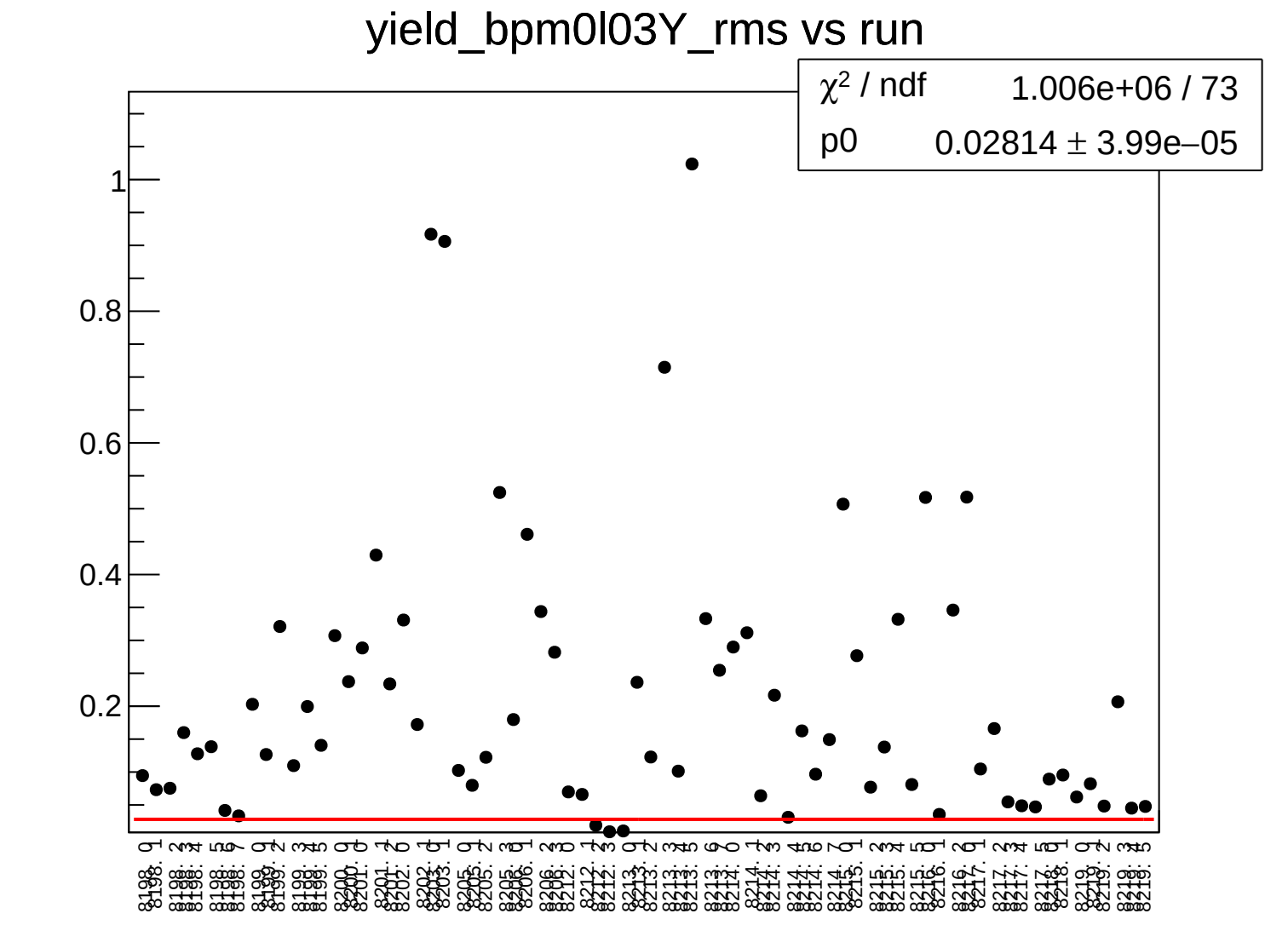

yield_bpm0l02Y_rms vs run
χ² / ndf 4.268e+04 / 73
p0 0.01429 ± 1.182e−05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

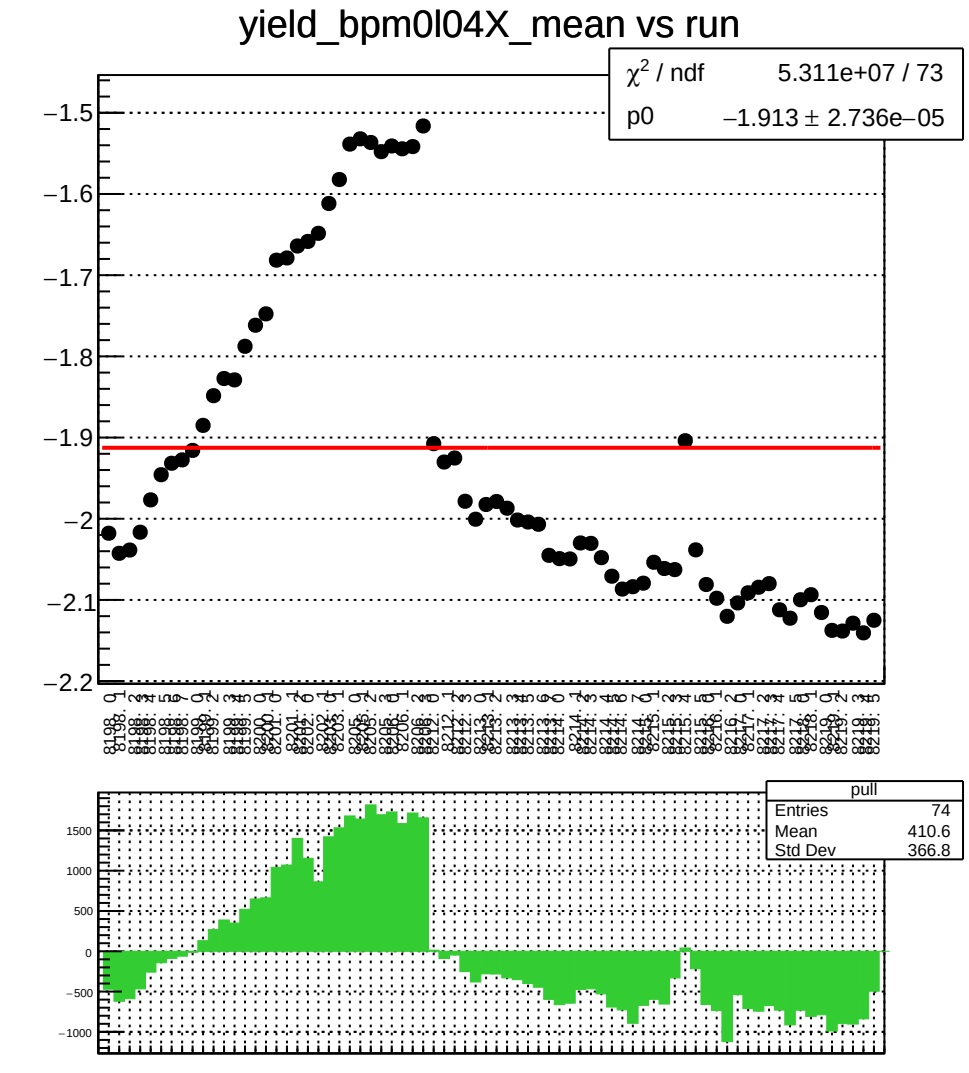

yield_bpm0l03X_mean vs run
χ² / ndf 6.601e+05 / 73
p0 −3.091 ± 3.802e−05
pull
Entries 74
Mean 36.26
Std Dev 28.6
pull1D
Entries 74
Mean −2.066
Std Dev 2.325

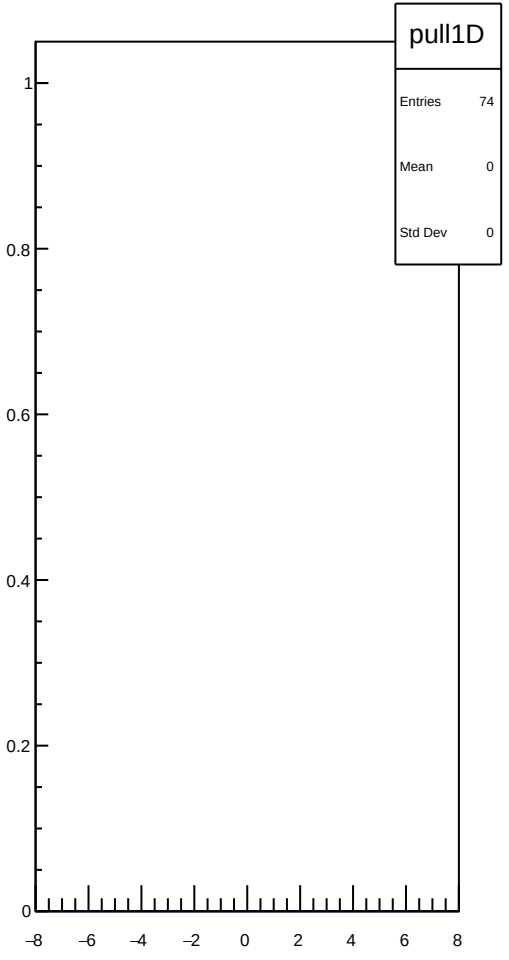

yield_bpm0l03X_rms vs run
χ² / ndf 1.204e+06 / 73
p0 0.01471 ± 2.688e–05
1
0.8
0.6
0.4
0.2

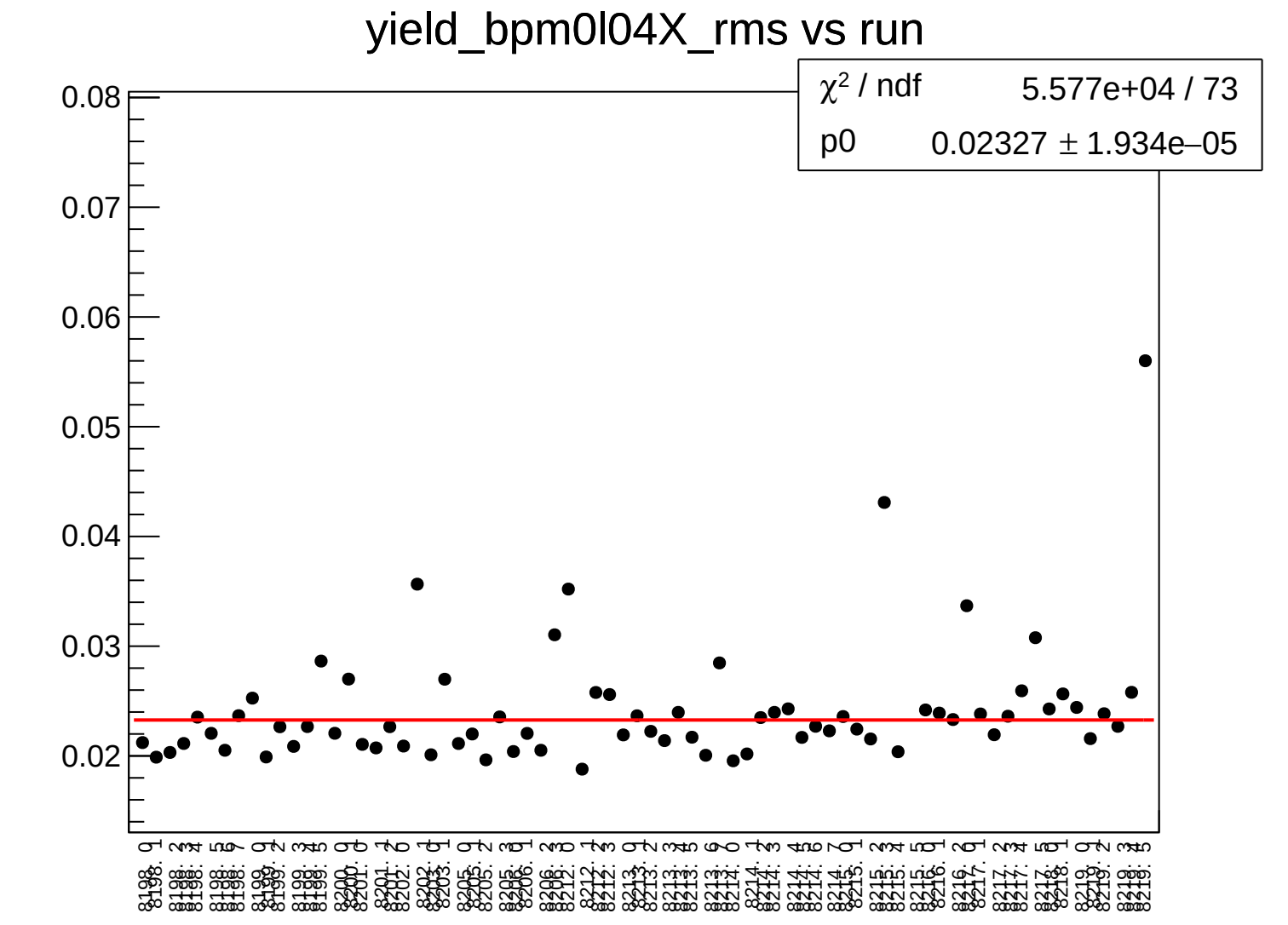

yield_bpm0l03Y_mean vs run
χ² / ndf 9.662e+05 / 73
p0 −0.1883 ± 5.643e−05
pull
Entries 74
Mean 13.25
Std Dev 22.58

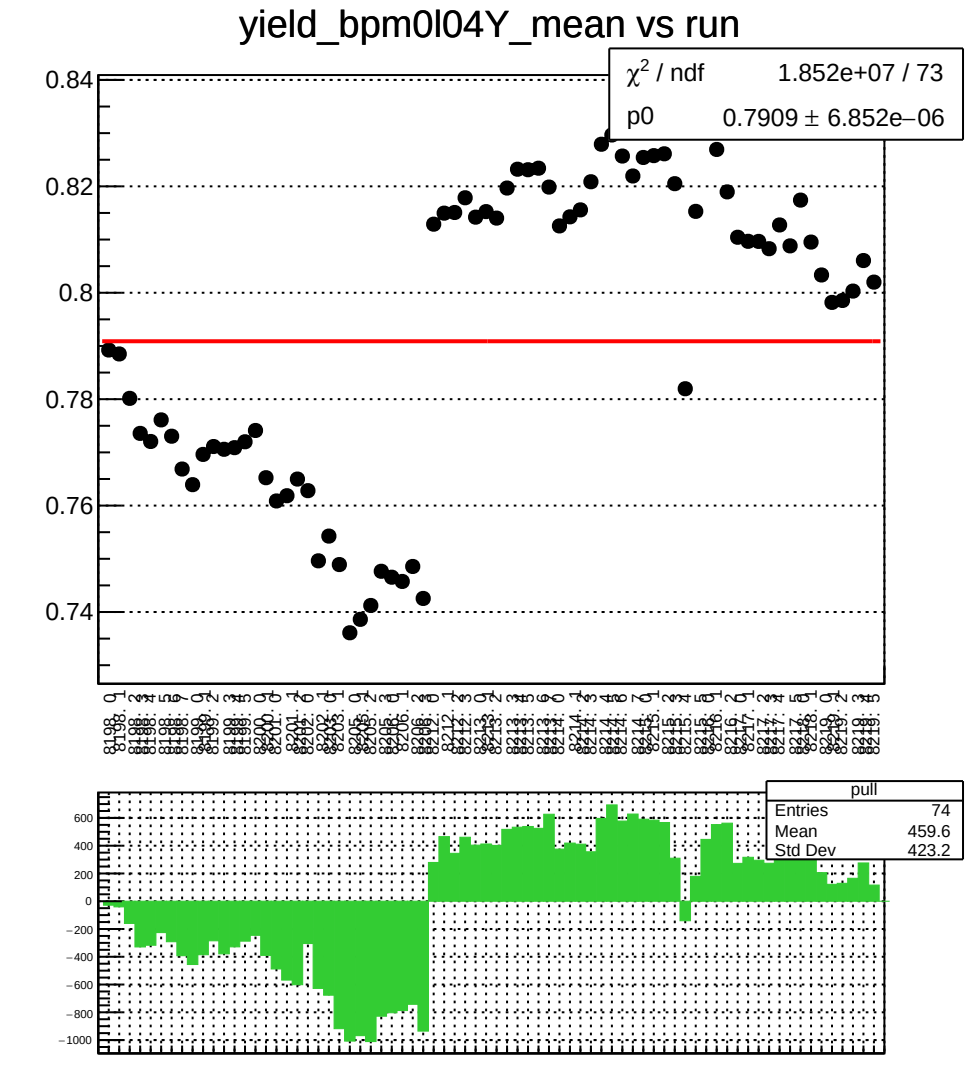

pull1D
Entries 74
Mean 1.214
Std Dev 3.761

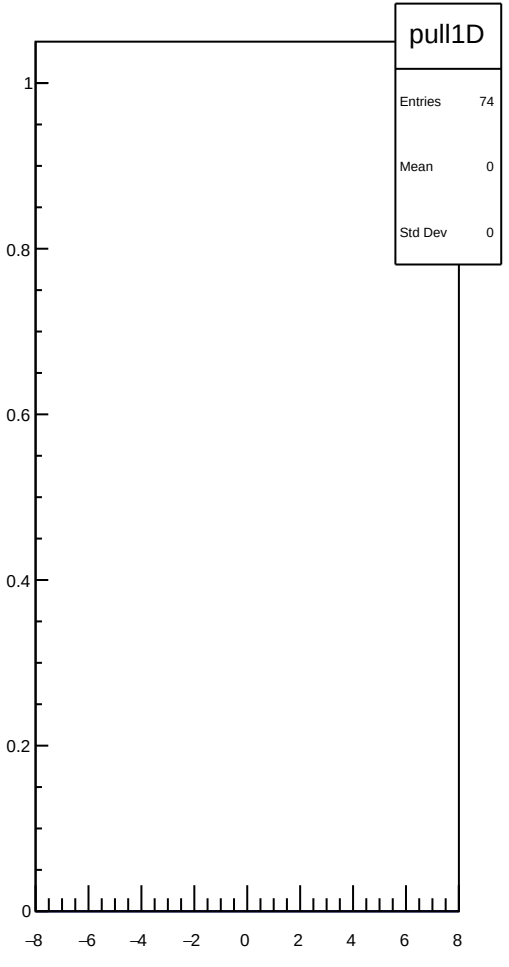

yield_bpm0l03Y_rms vs run
χ² / ndf 1.006e+06 / 73
p0 0.02814 ± 3.99e−05
1
0.8
0.6
0.4
0.2

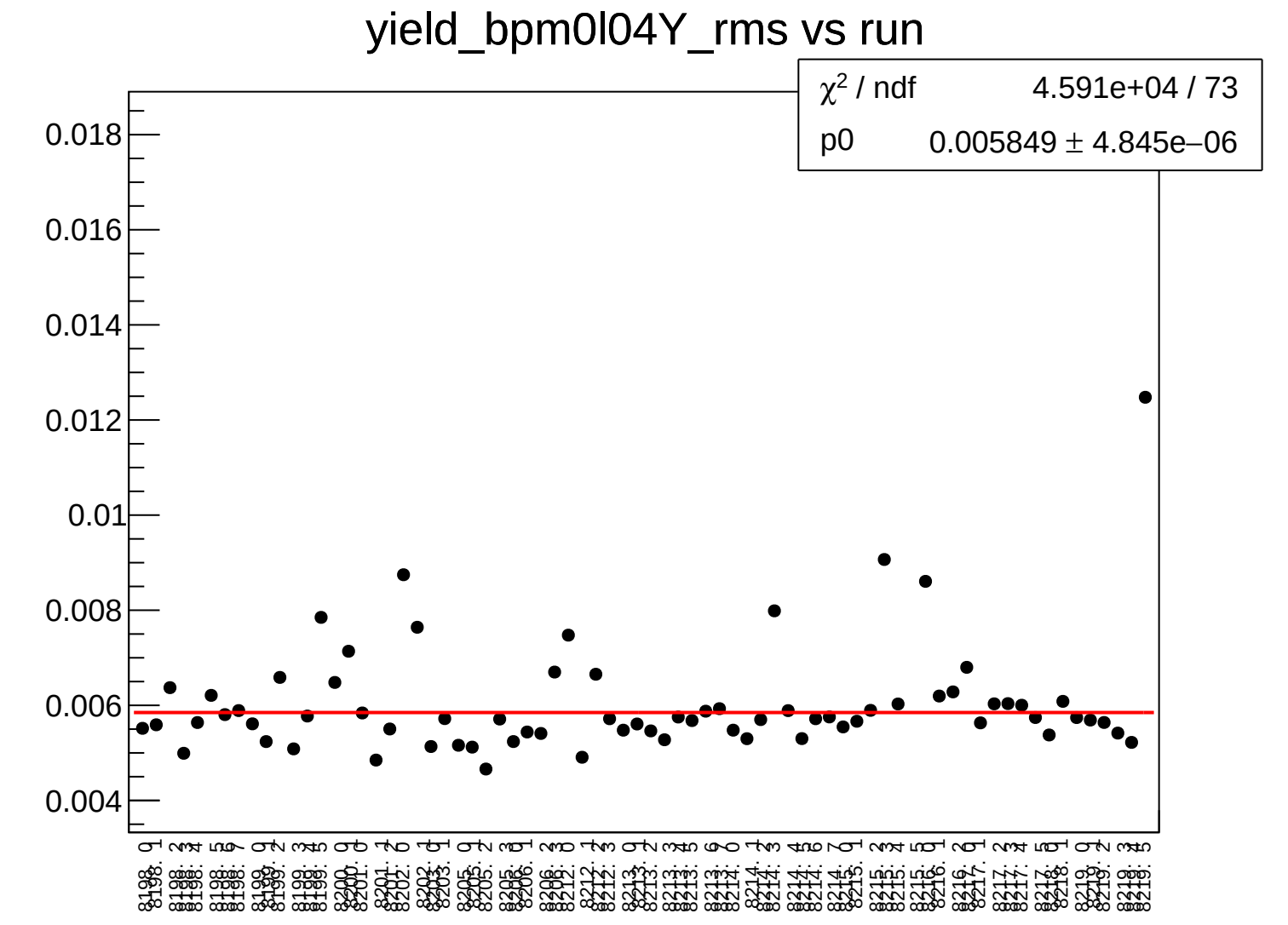

yield_bpm0l04X_mean vs run
χ² / ndf 5.311e+07 / 73
p0 −1.913 ± 2.736e−05
pull
Entries 74
Mean 410.6
Std Dev 366.8

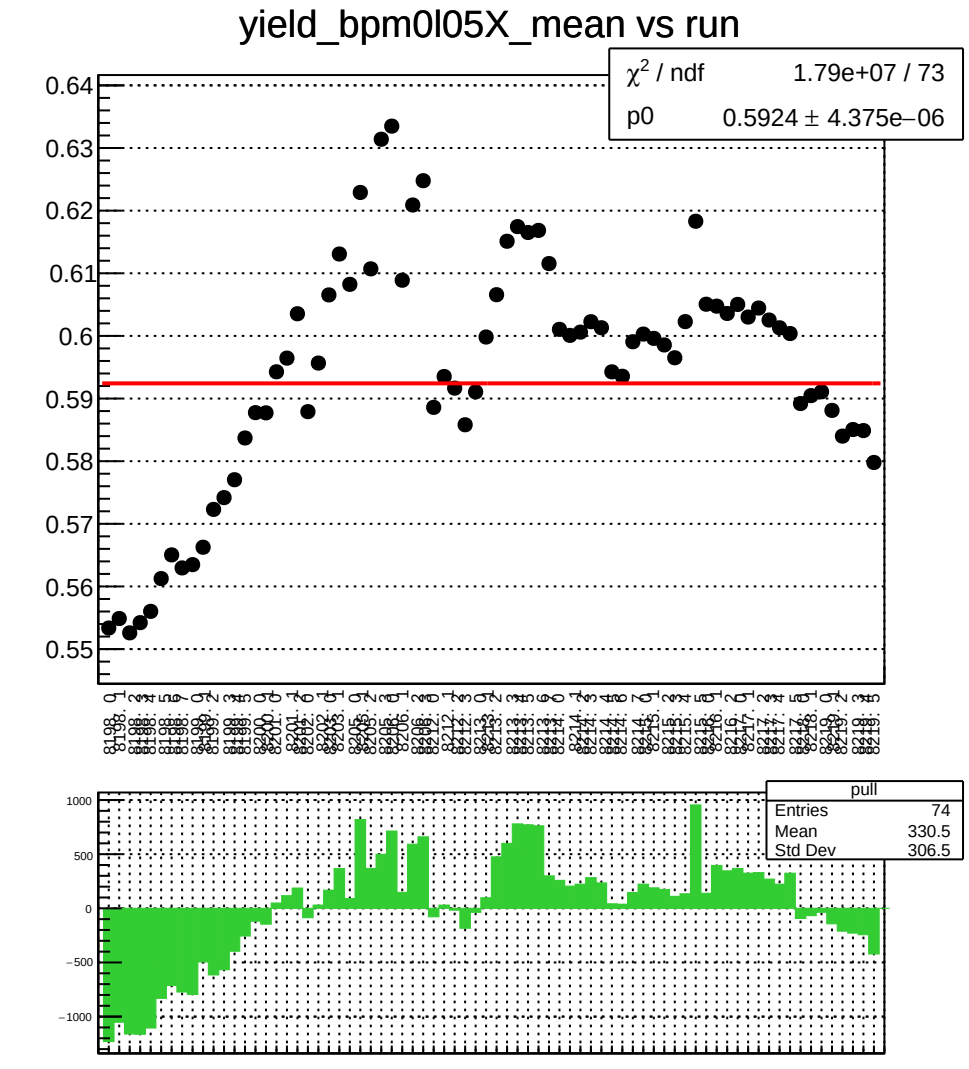

pull1D
Entries 74
Mean 0
Std Dev 0

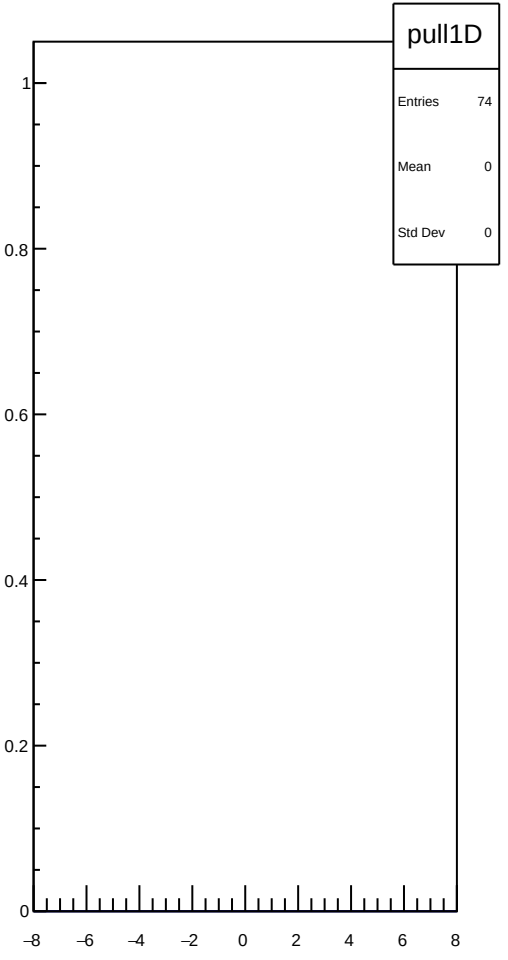

yield_bpm0l04X_rms vs run
χ² / ndf 5.577e+04 / 73
p0 0.02327 ± 1.934e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02

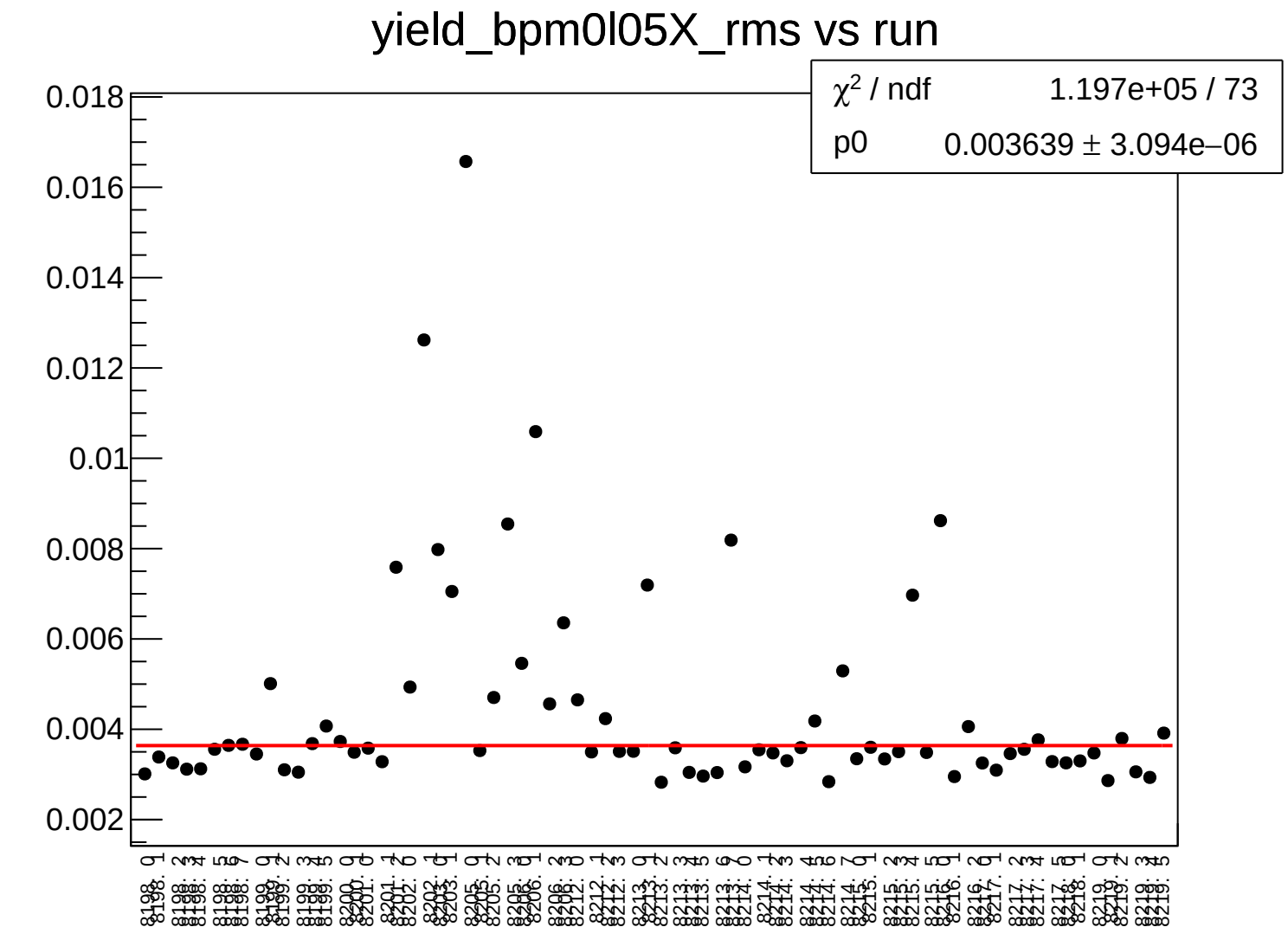

yield_bpm0l04Y_mean vs run
χ² / ndf 1.852e+07 / 73
p0 0.7909 ± 6.852e−06
0.84
0.82
0.8
0.78
0.76
0.74
pull
Entries 74
Mean 459.6
Std Dev 423.2
600
400
200
0
−200
−400
−600
−800
−1000

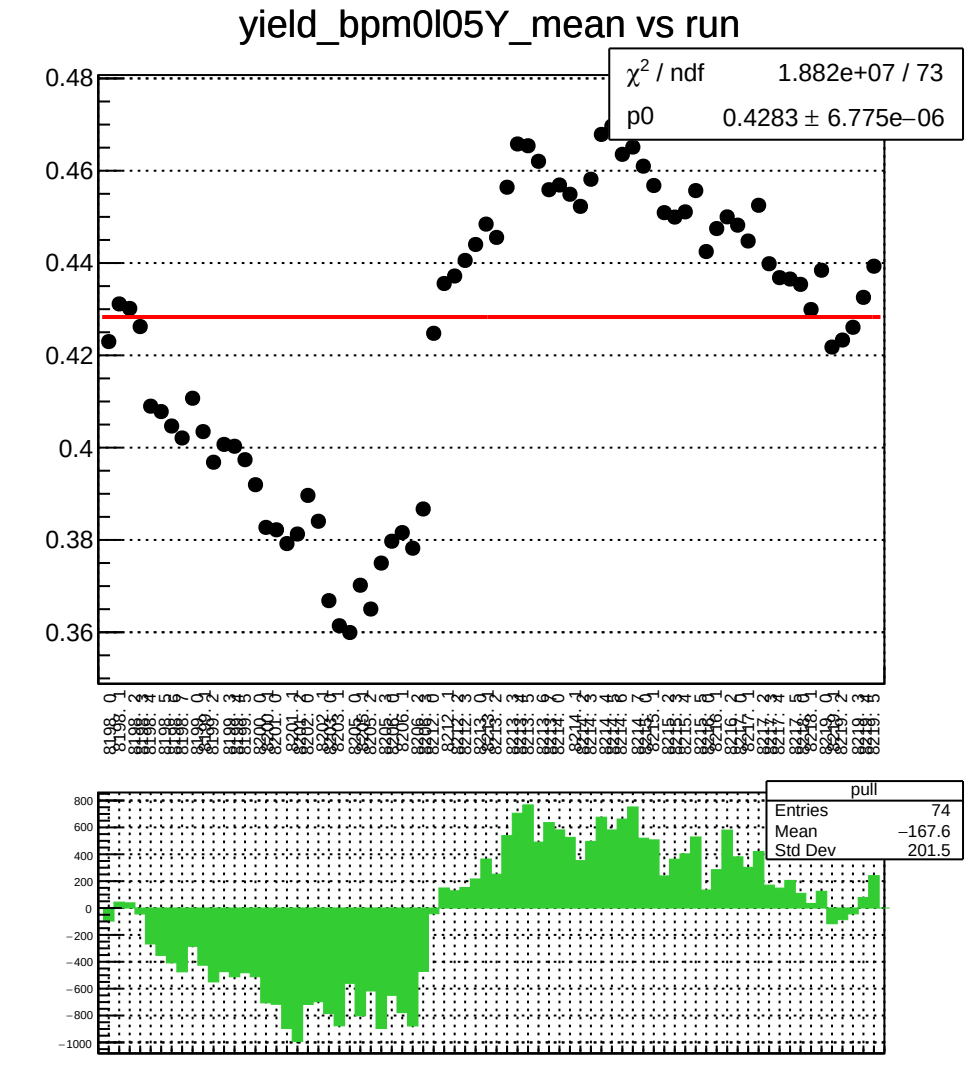

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

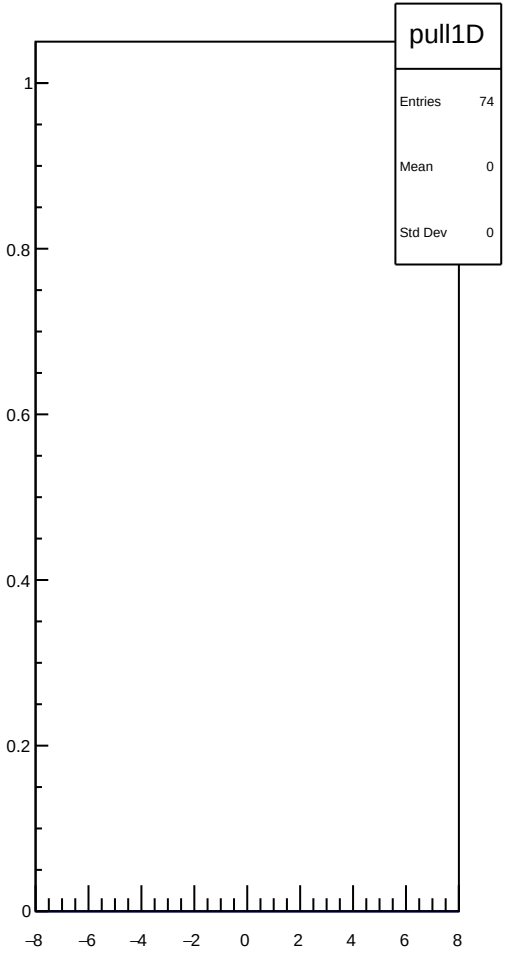

yield_bpm0l04Y_rms vs run
χ^2 / ndf 4.591e+04 / 73
p0 0.005849 ± 4.845e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

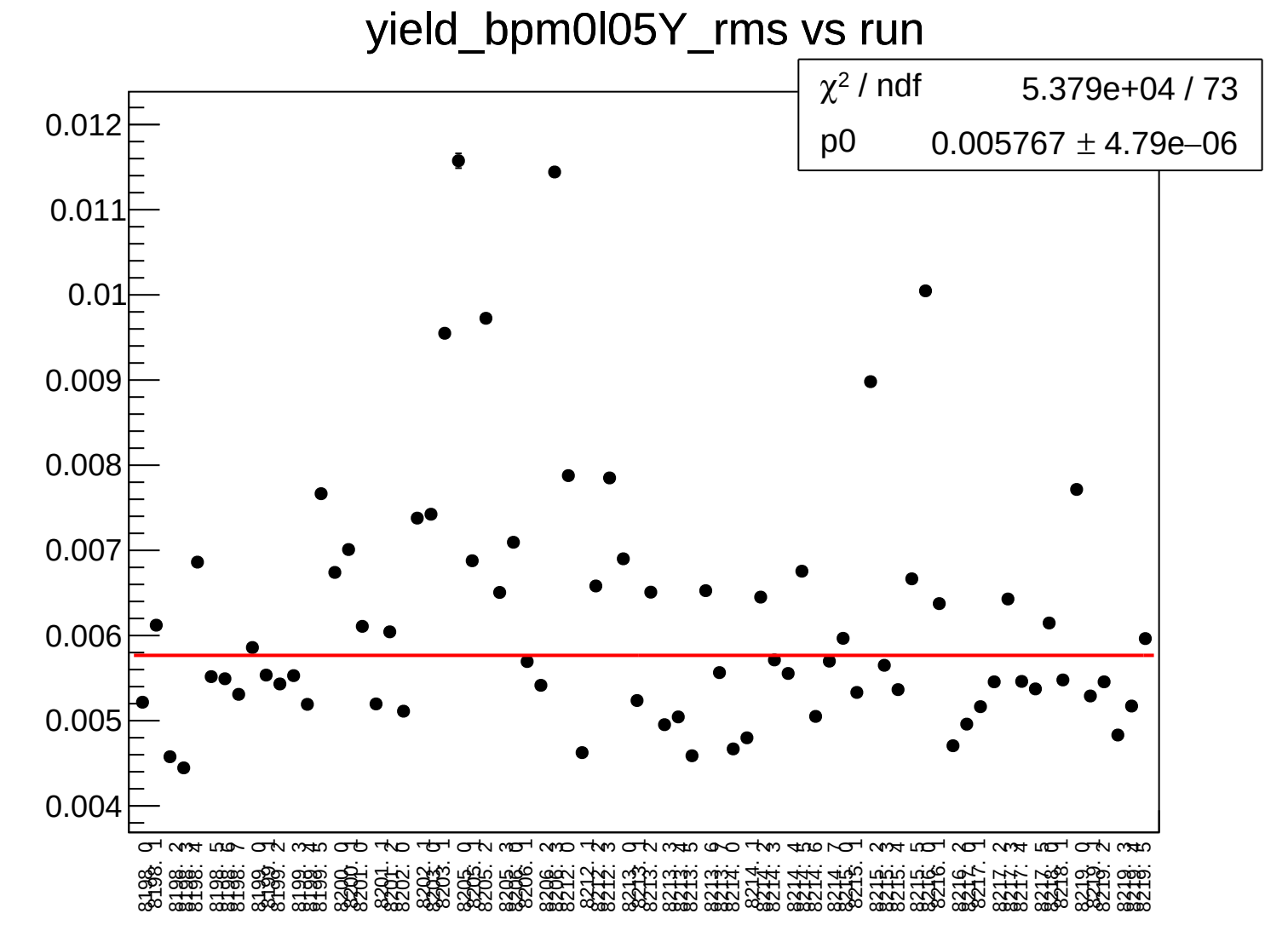

yield_bpm0l05X_mean vs run
χ² / ndf 1.79e+07 / 73
p0 0.5924 ± 4.375e−06
pull
Entries 74
Mean 330.5
Std Dev 306.5

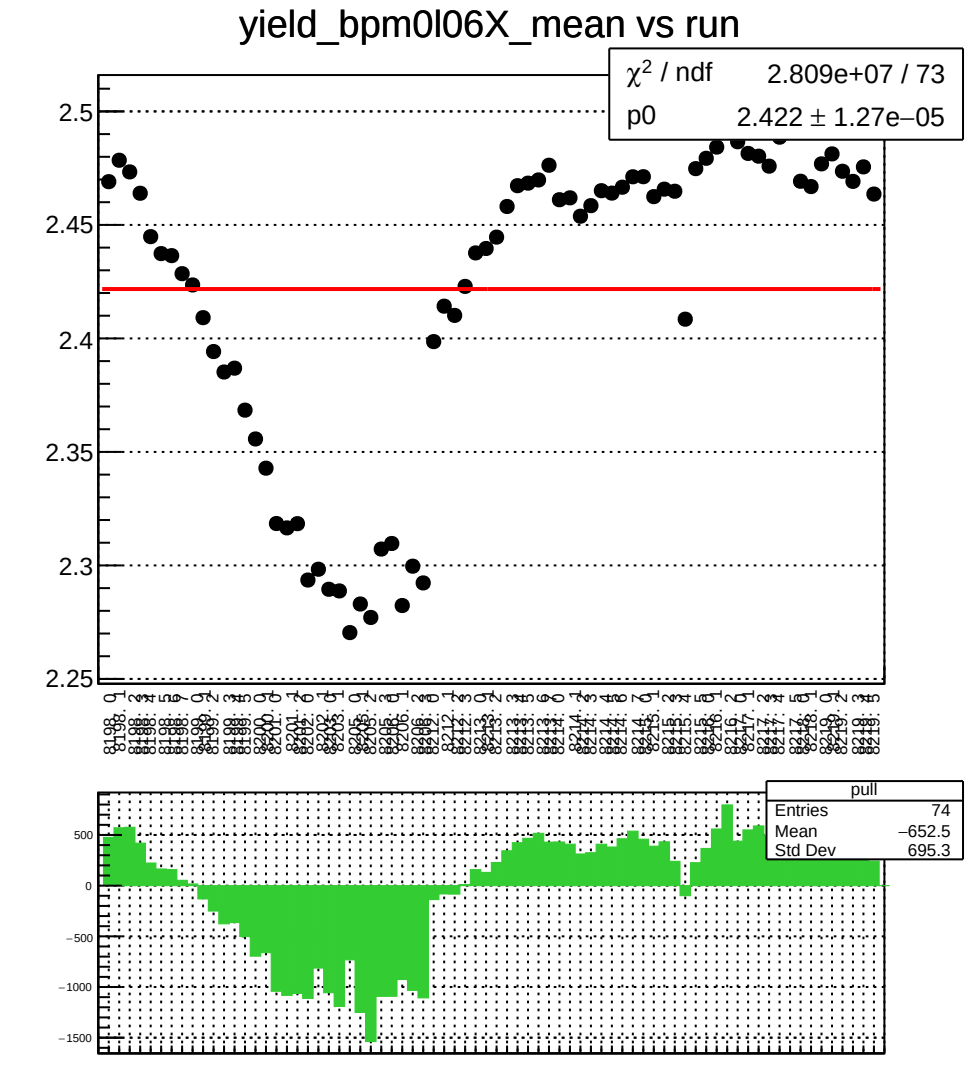

pull1D
Entries 74
Mean 0
Std Dev 0

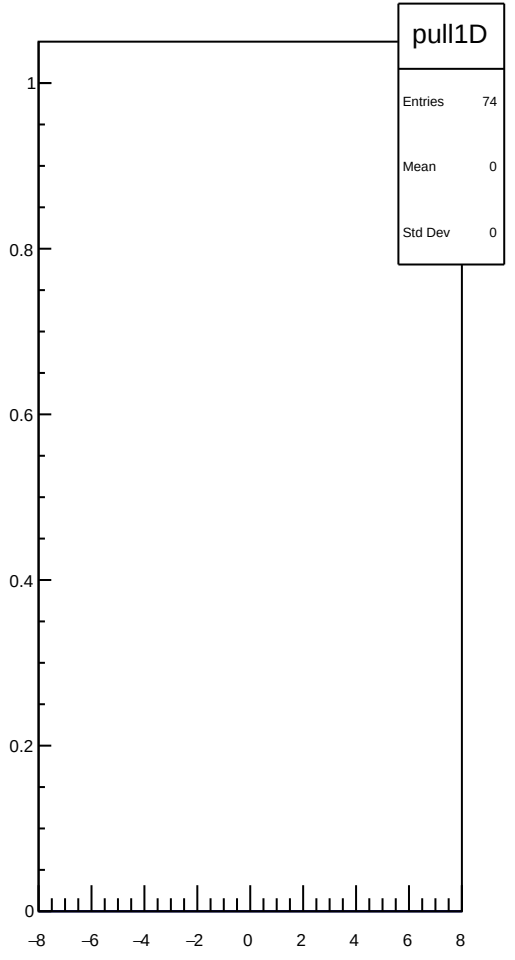

yield_bpm0l05X_rms vs run
χ² / ndf 1.197e+05 / 73
p0 0.003639 ± 3.094e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

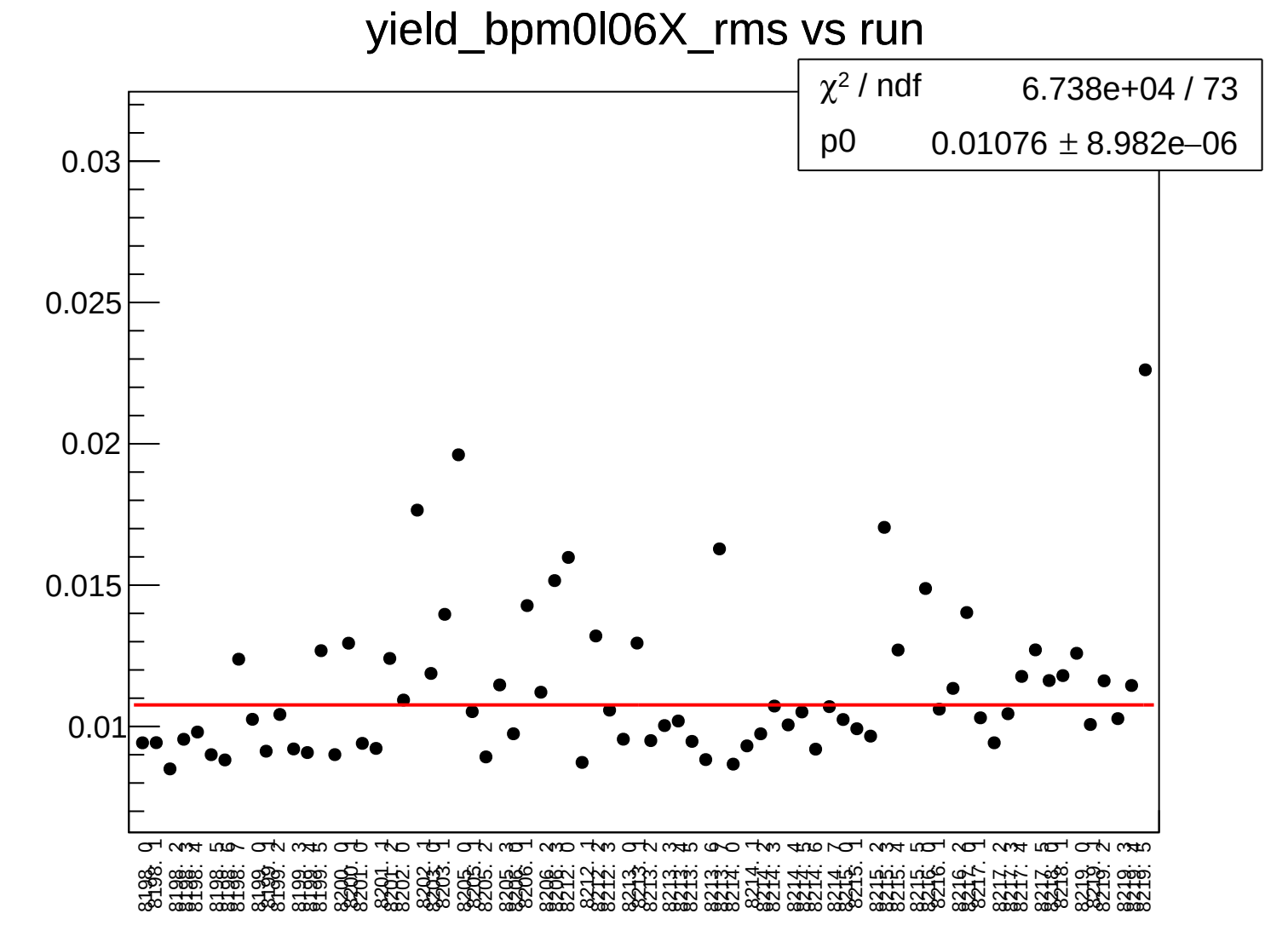

yield_bpm0l05Y_mean vs run
χ² / ndf 1.882e+07 / 73
p0 0.4283 ± 6.775e−06
0.48
0.46
0.44
0.42
0.4
0.38
0.36
pull
Entries 74
Mean −167.6
Std Dev 201.5
800
600
400
200
0
−200
−400
−600
−800
−1000

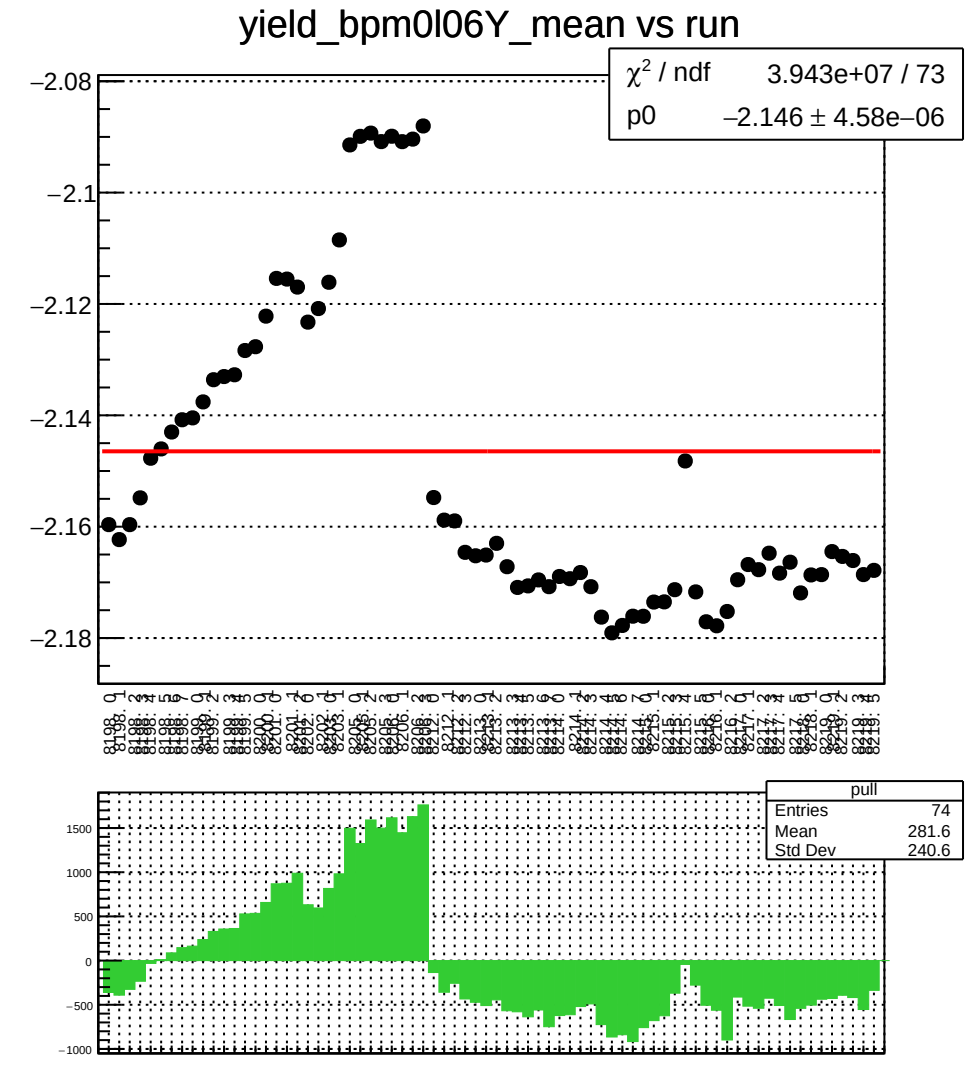

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

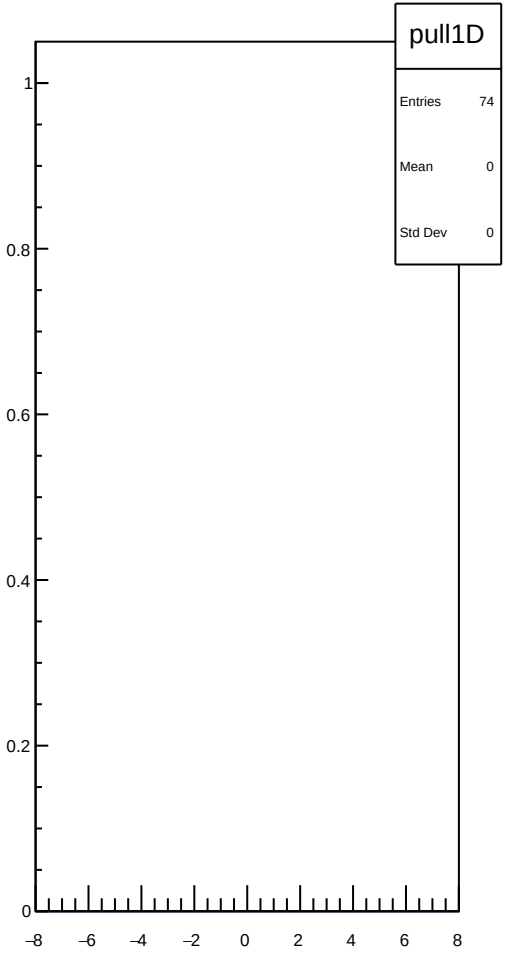

yield_bpm0l05Y_rms vs run
χ² / ndf 5.379e+04 / 73
p0 0.005767 ± 4.79e–06
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

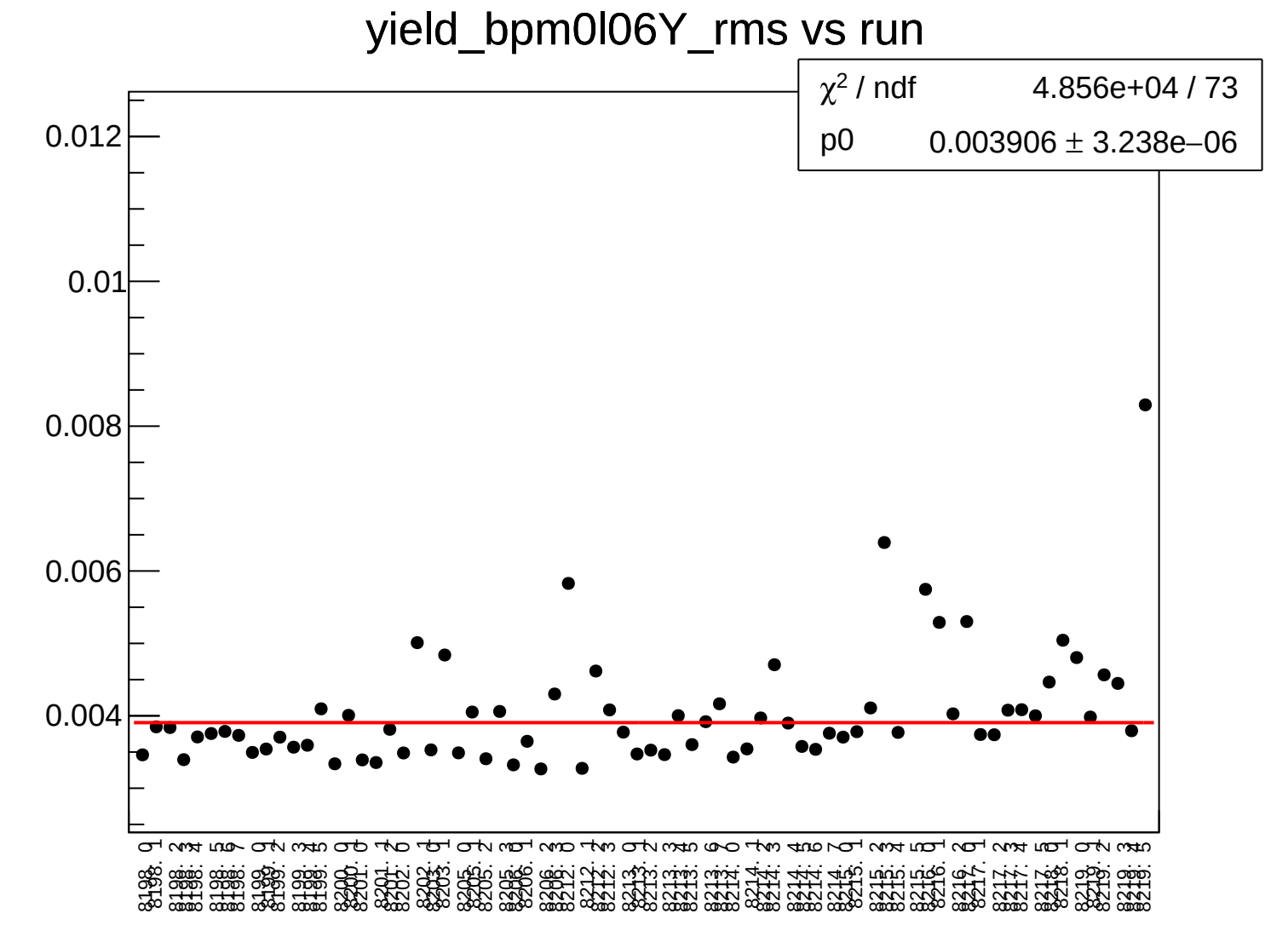

yield_bpm0l06X_mean vs run
χ² / ndf 2.809e+07 / 73
p0 2.422 ± 1.27e−05
2.5
2.45
2.4
2.35
2.3
2.25
pull
Entries 74
Mean −652.5
Std Dev 695.3
500
0
−500
−1000
−1500

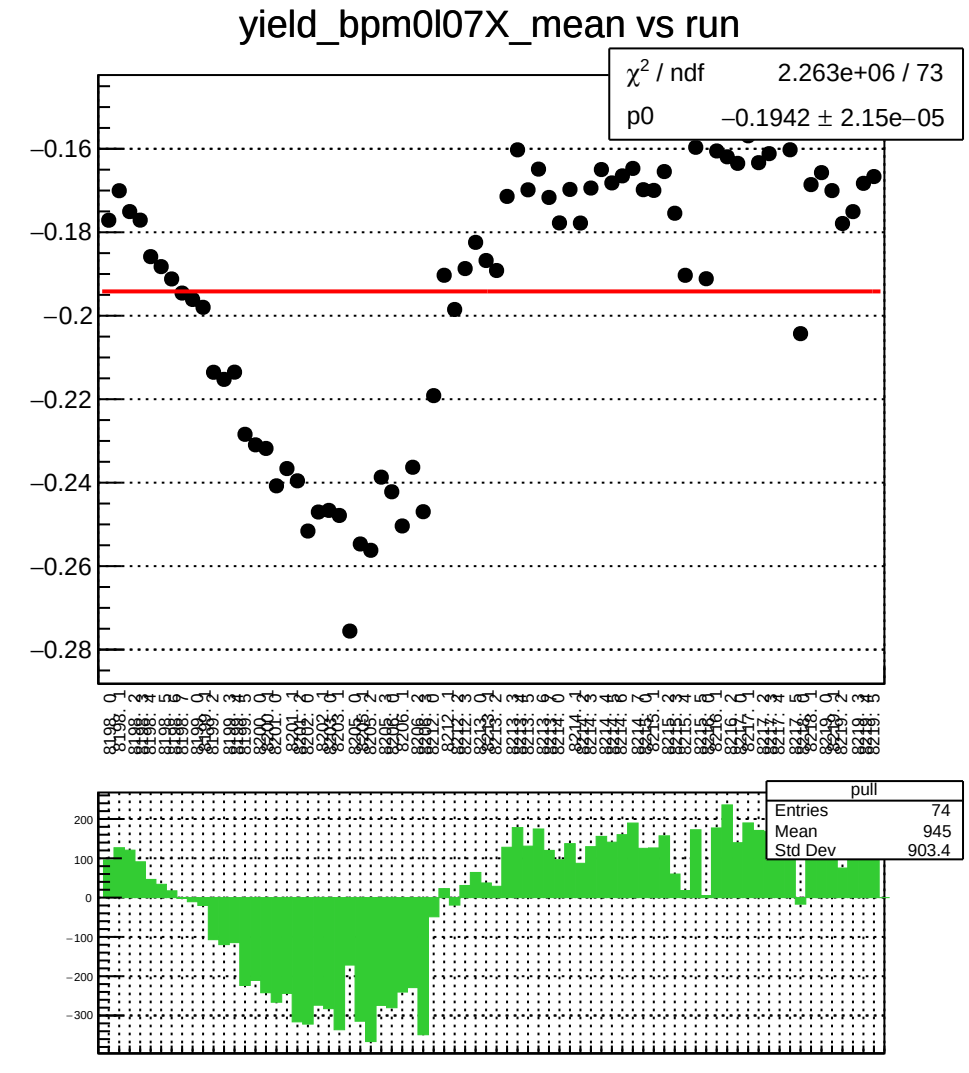

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

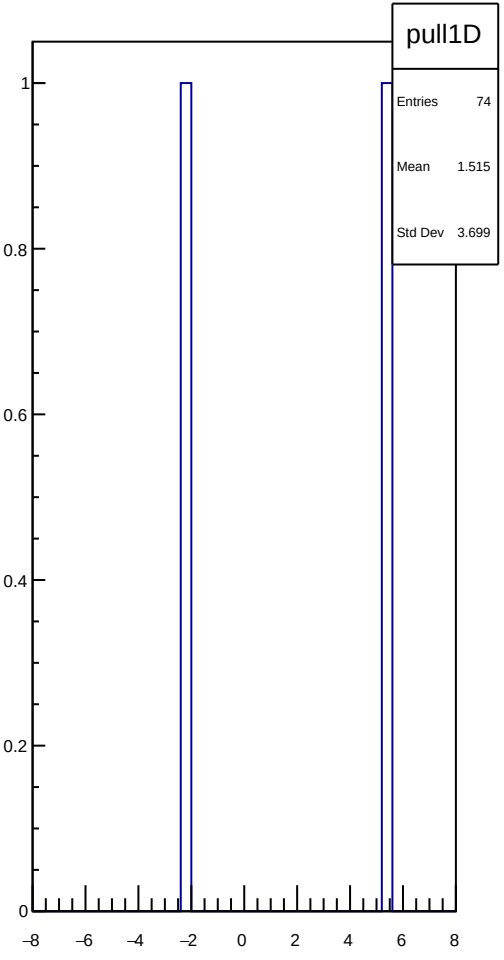

yield_bpm0l06X_rms vs run
χ² / ndf 6.738e+04 / 73
p0 0.01076 ± 8.982e–06
0.03
0.025
0.02
0.015
0.01

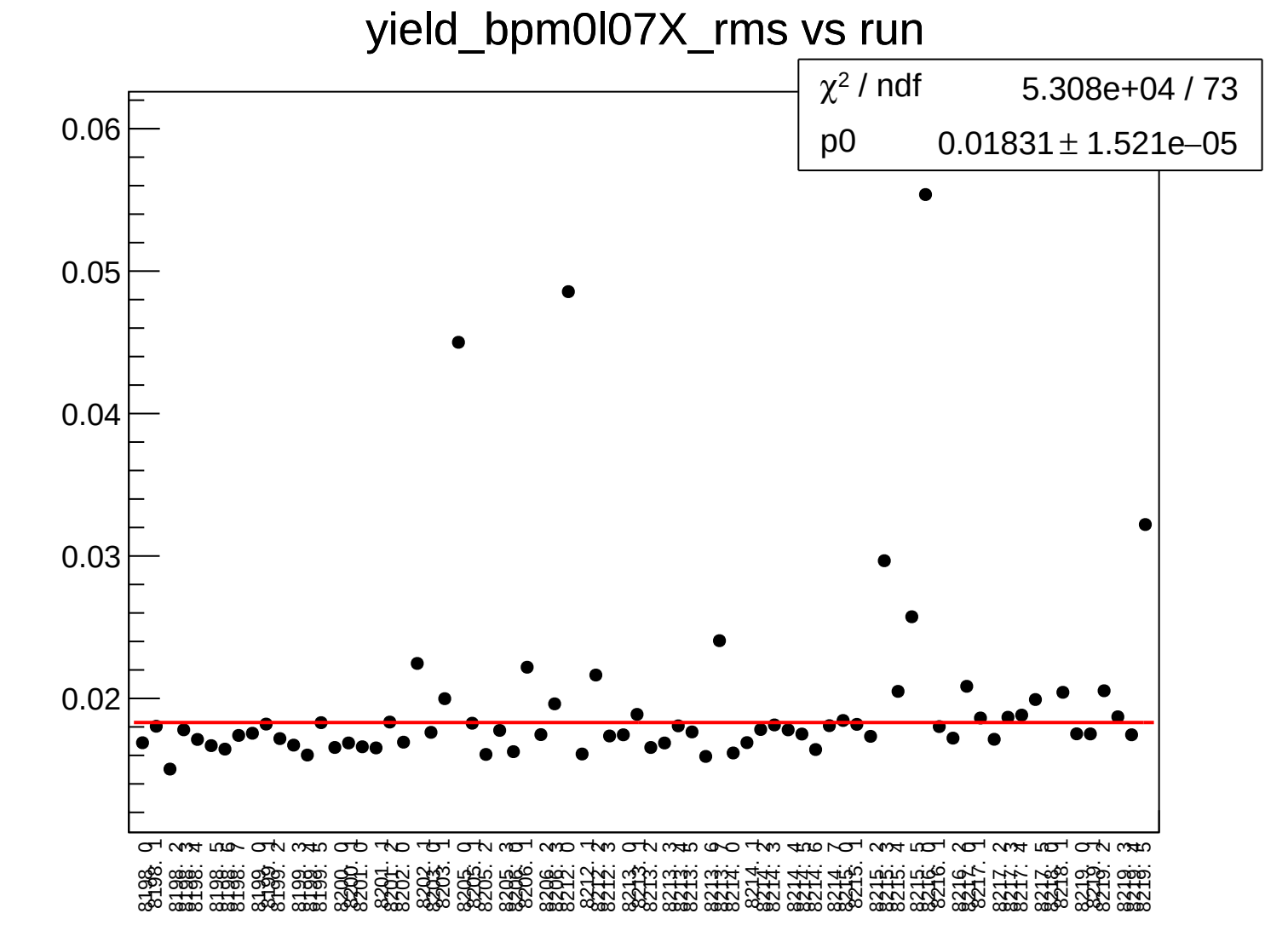

yield_bpm0l06Y_mean vs run
χ² / ndf 3.943e+07 / 73
p0 −2.146 ± 4.58e−06
−2.08
−2.1
−2.12
−2.14
−2.16
−2.18
pull
Entries 74
Mean 281.6
Std Dev 240.6
1500
1000
500
0
−500
−1000

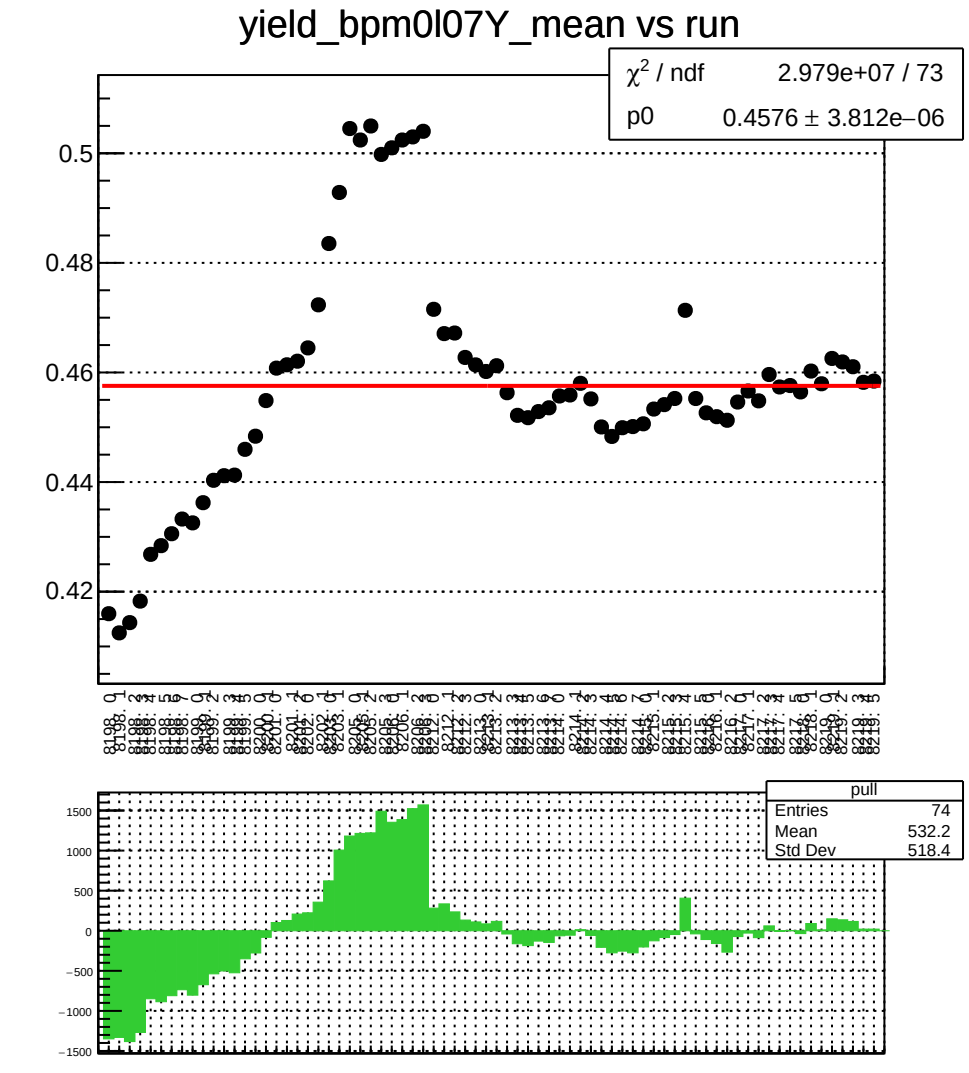

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

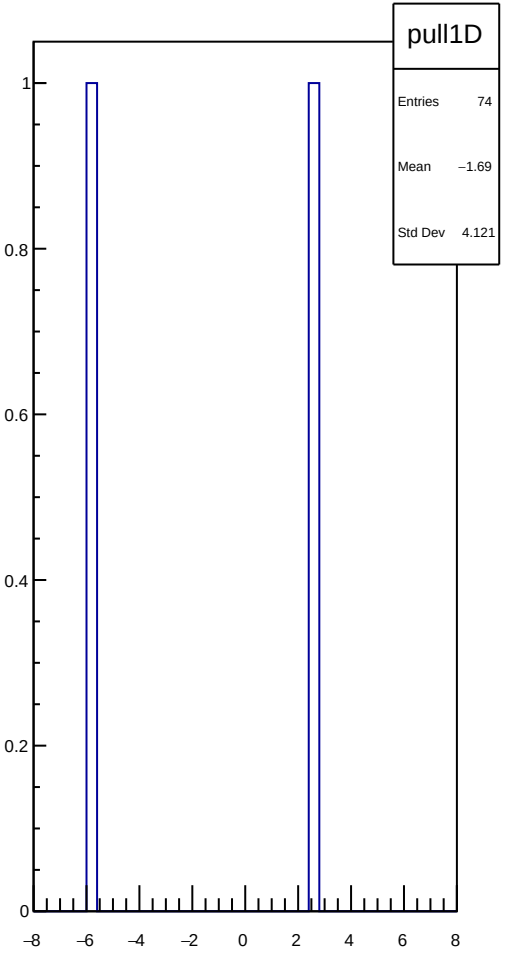

yield_bpm0l06Y_rms vs run
χ² / ndf 4.856e+04 / 73
p0 0.003906 ± 3.238e−06
0.012
0.01
0.008
0.006
0.004

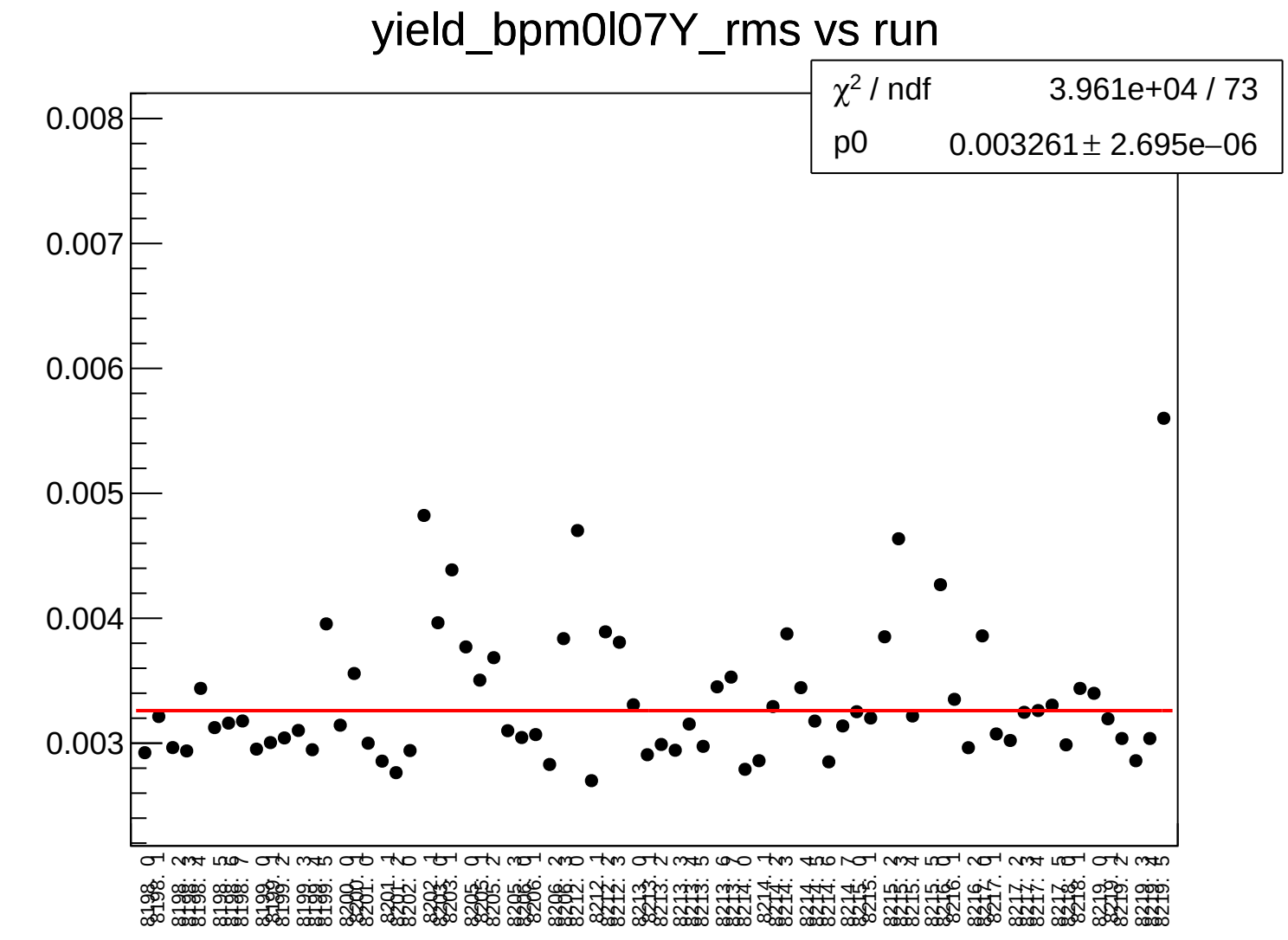

yield_bpm0l07X_mean vs run
χ² / ndf 2.263e+06 / 73
p0 −0.1942 ± 2.15e−05
−0.16
−0.18
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 74
Mean 945
Std Dev 903.4
200
100
0
−100
−200
−300

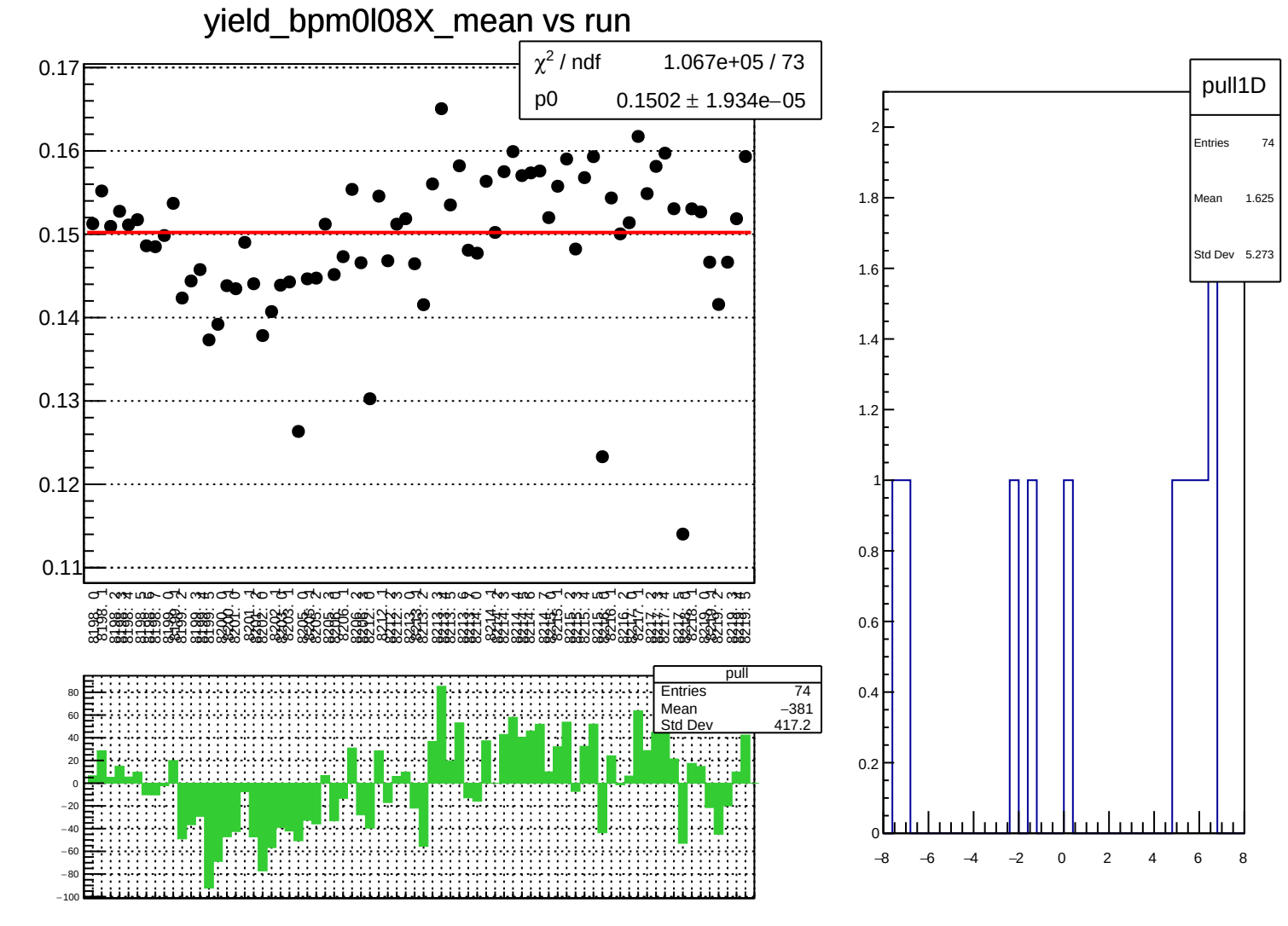

pull1D
Entries 74
Mean 1.515
Std Dev 3.699
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

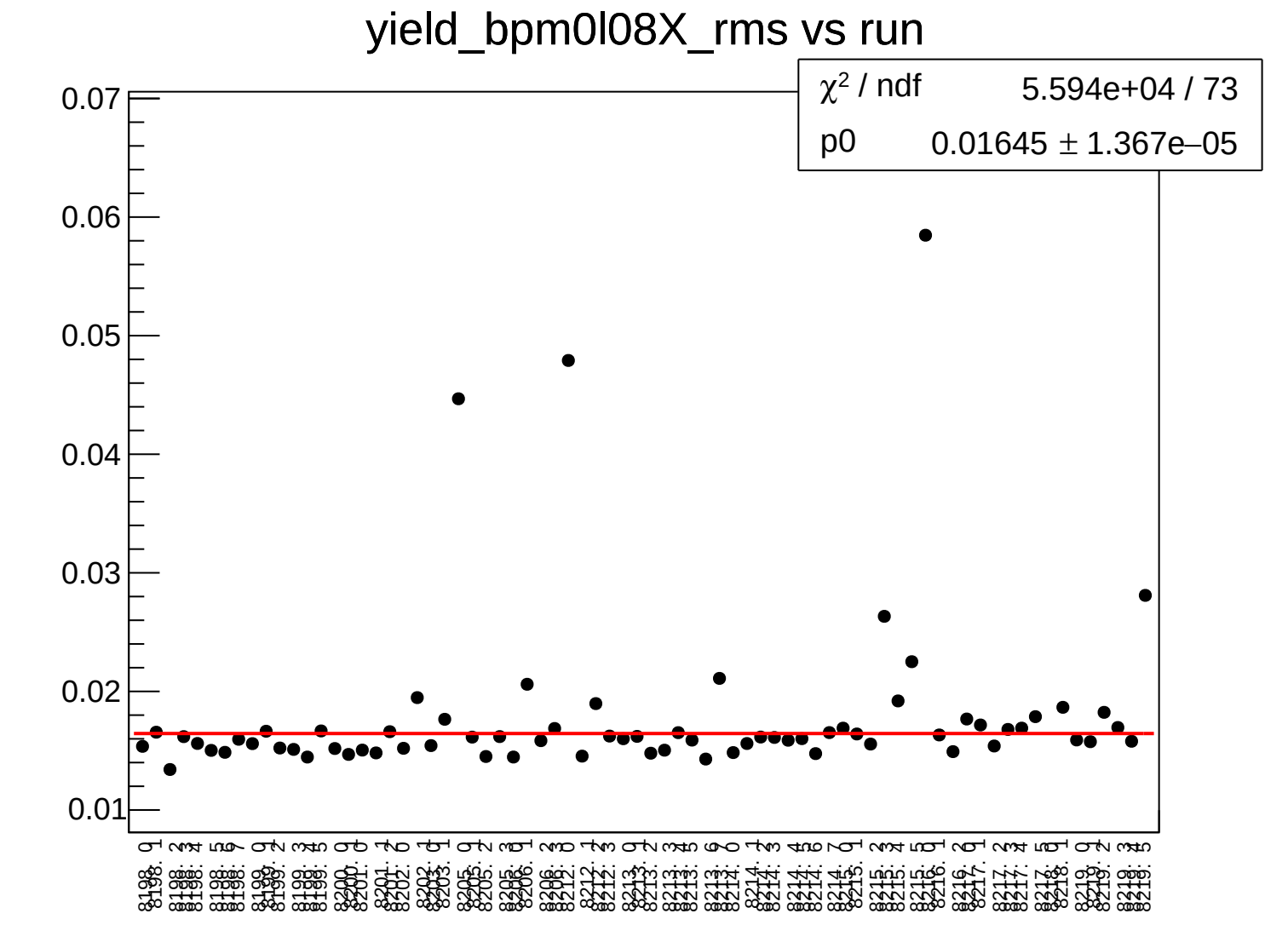

yield_bpm0l07X_rms vs run
χ² / ndf 5.308e+04 / 73
p0 0.01831 ± 1.521e–05
0.06
0.05
0.04
0.03
0.02

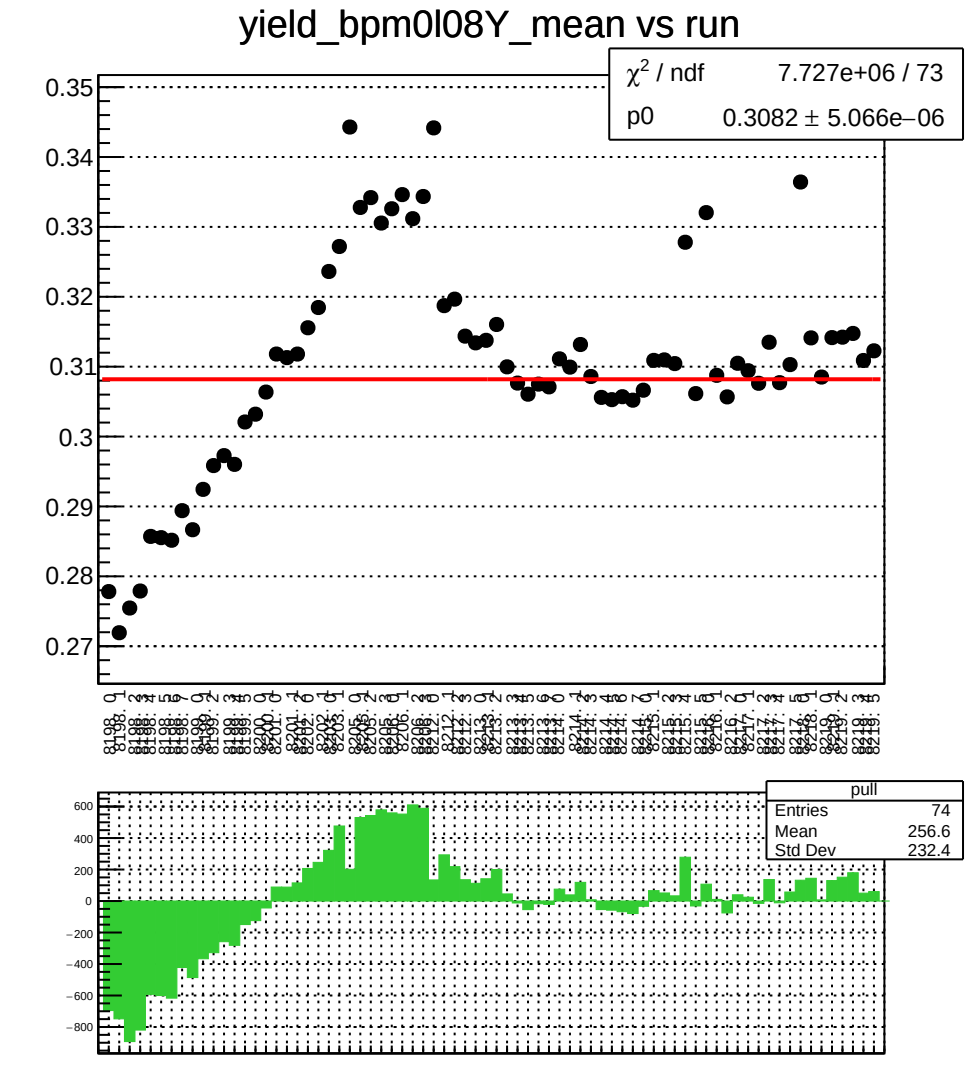

yield_bpm0l07Y_mean vs run
χ² / ndf 2.979e+07 / 73
p0 0.4576 ± 3.812e−06
0.5
0.48
0.46
0.44
0.42
pull
Entries 74
Mean 532.2
Std Dev 518.4
1500
1000
500
0
−500
−1000
−1500

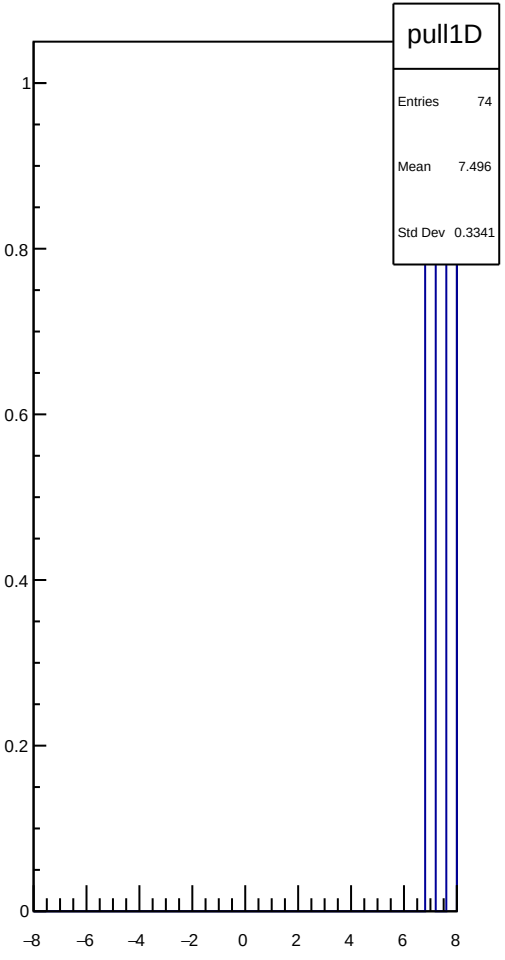

pull1D
Entries 74
Mean −1.69
Std Dev 4.121
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

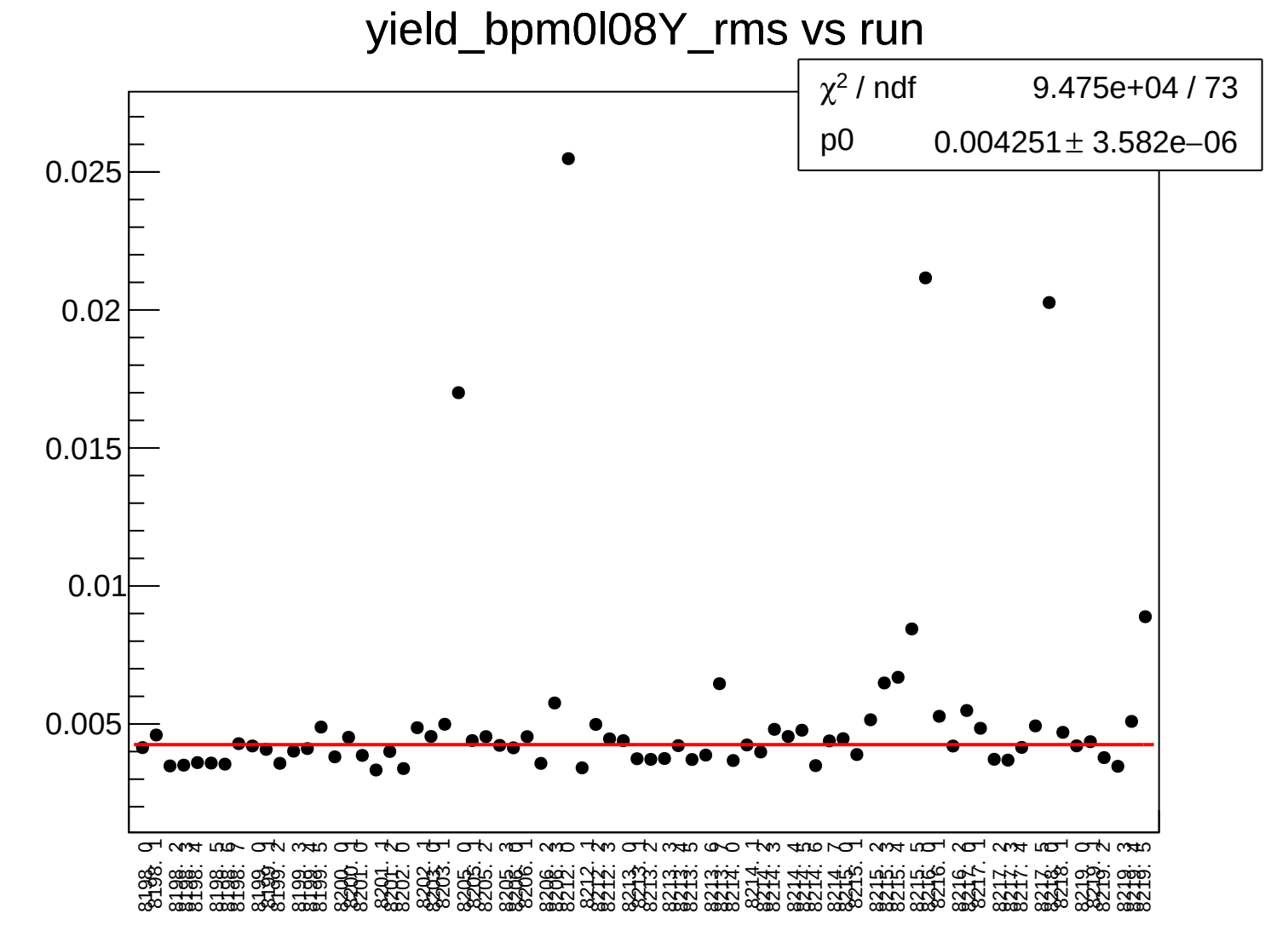

yield_bpm0l07Y_rms vs run
χ² / ndf 3.961e+04 / 73
p0 0.003261 ± 2.695e−06
0.008
0.007
0.006
0.005
0.004
0.003

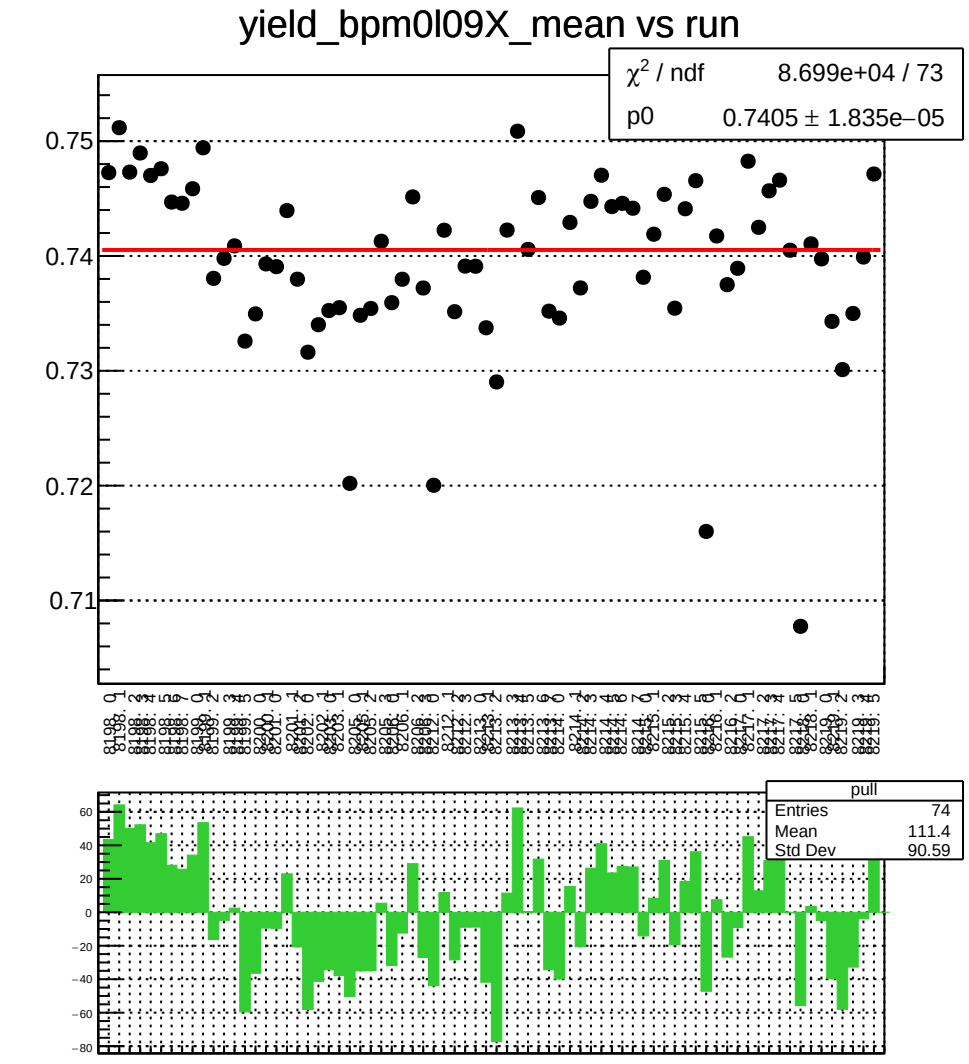

yield_bpm0l08X_mean vs run
χ² / ndf 1.067e+05 / 73
p0 0.1502 ± 1.934e−05
pull
Entries 74
Mean −381
Std Dev 417.2
pull1D
Entries 74
Mean 1.625
Std Dev 5.273

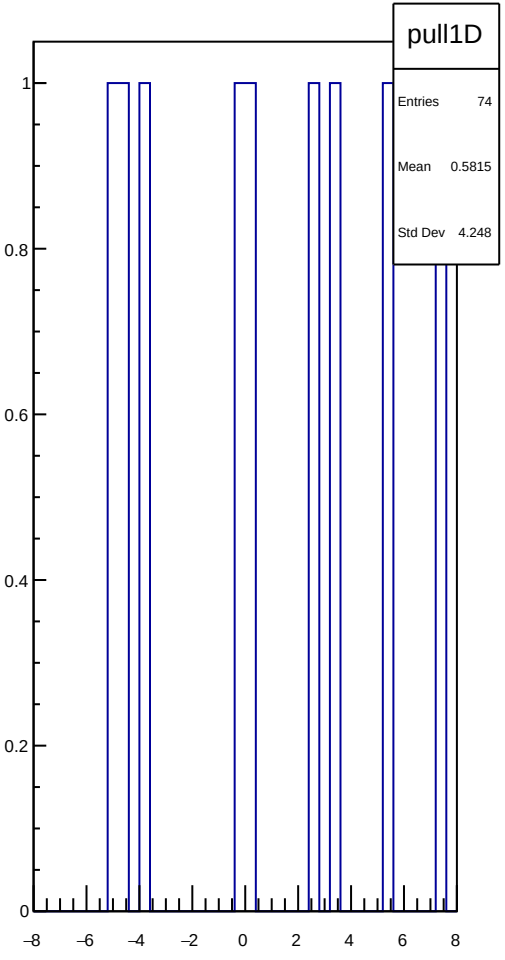

yield_bpm0l08X_rms vs run
χ² / ndf 5.594e+04 / 73
p0 0.01645 ± 1.367e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

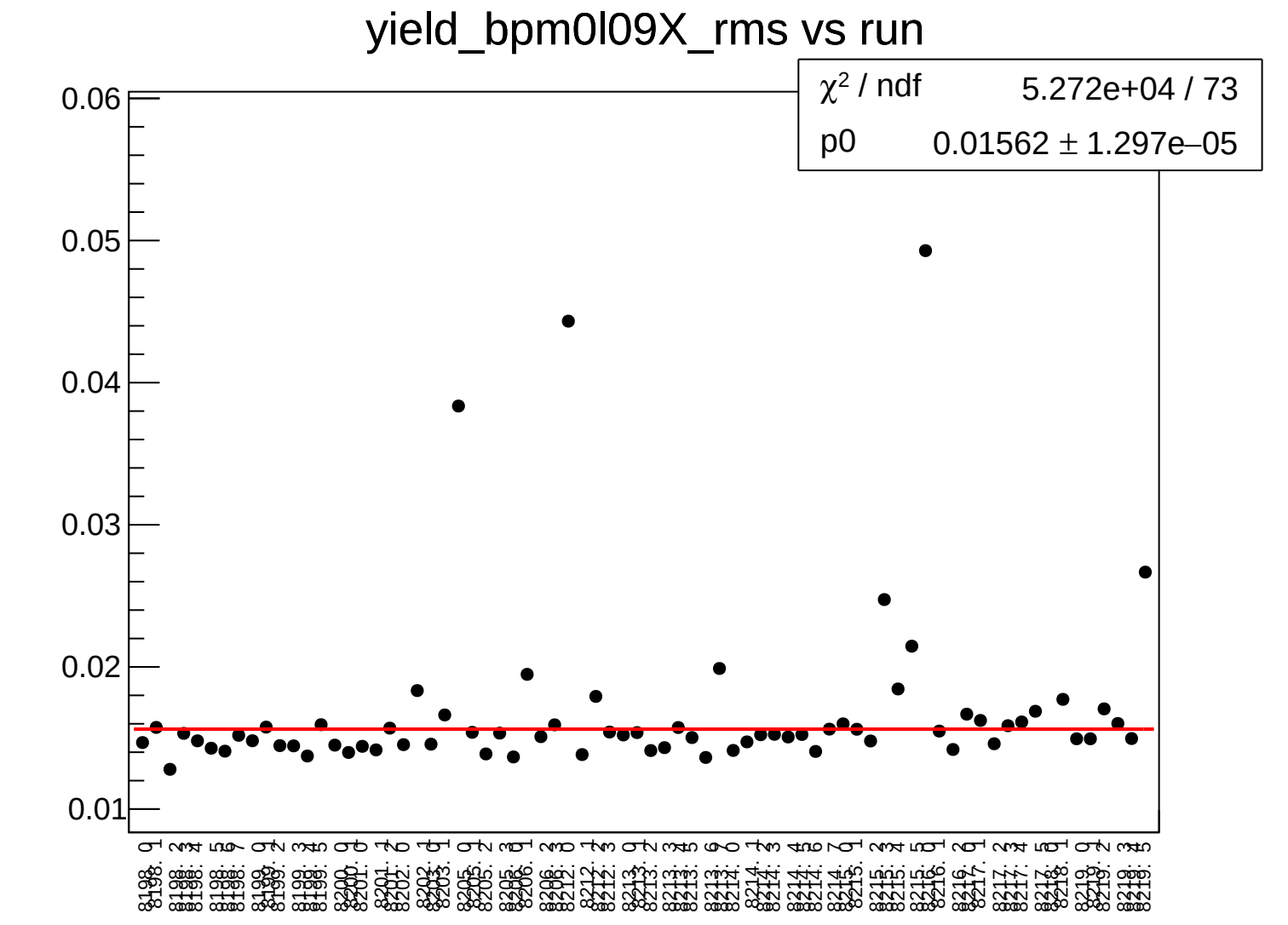

yield_bpm0l08Y_mean vs run
χ² / ndf 7.727e+06 / 73
p0 0.3082 ± 5.066e−06
pull
Entries 74
Mean 256.6
Std Dev 232.4

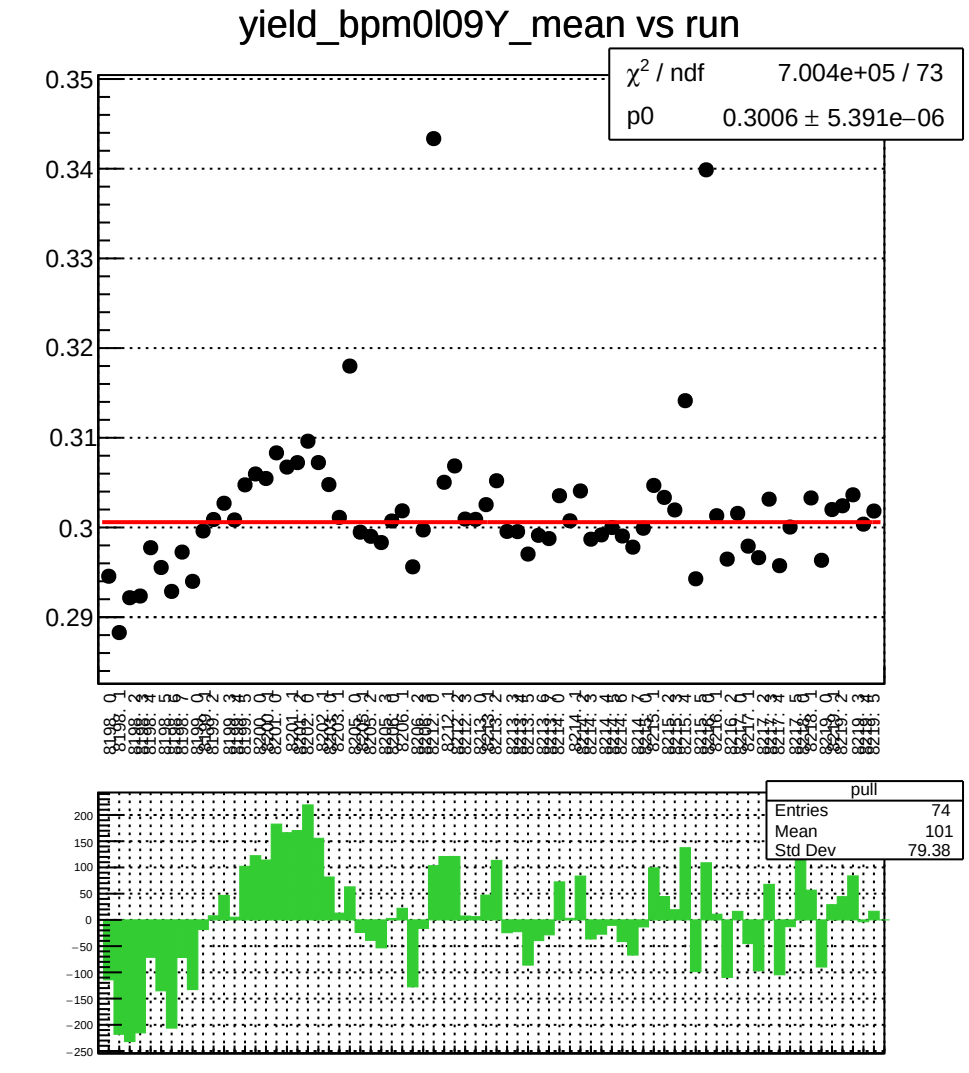

pull1D
Entries 74
Mean 7.496
Std Dev 0.3341

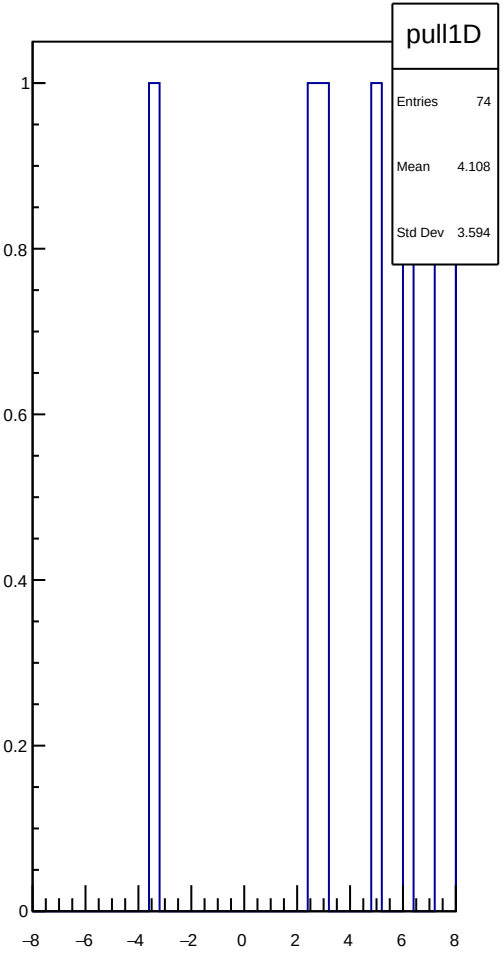

yield_bpm0l08Y_rms vs run
χ² / ndf 9.475e+04 / 73
p0 0.004251 ± 3.582e−06
0.025
0.02
0.015
0.01
0.005

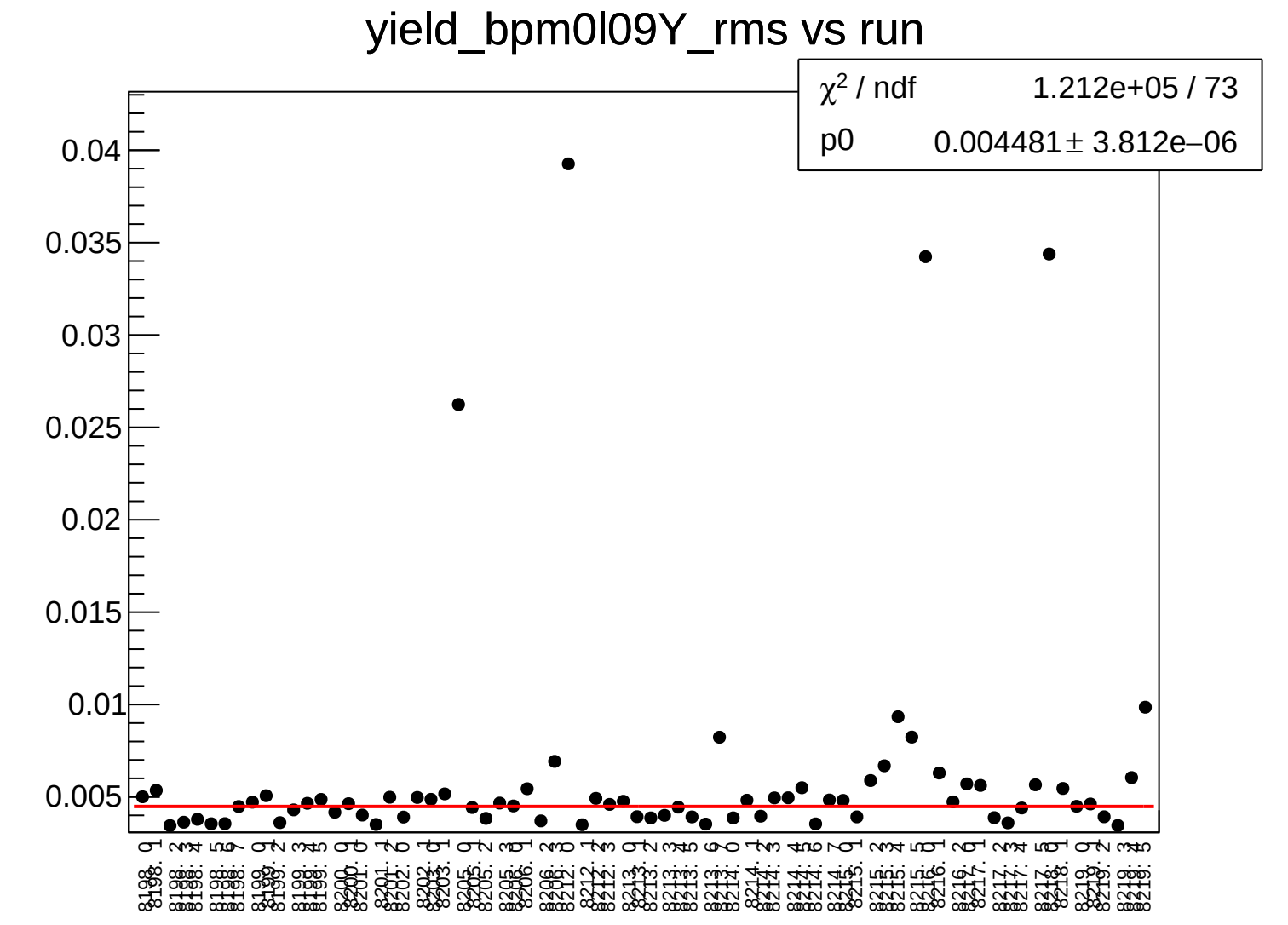

yield_bpm0l09X_mean vs run
χ² / ndf 8.699e+04 / 73
p0 0.7405 ± 1.835e−05
0.75
0.74
0.73
0.72
0.71
pull
Entries 74
Mean 111.4
Std Dev 90.59
60
40
20
0
−20
−40
−60
−80

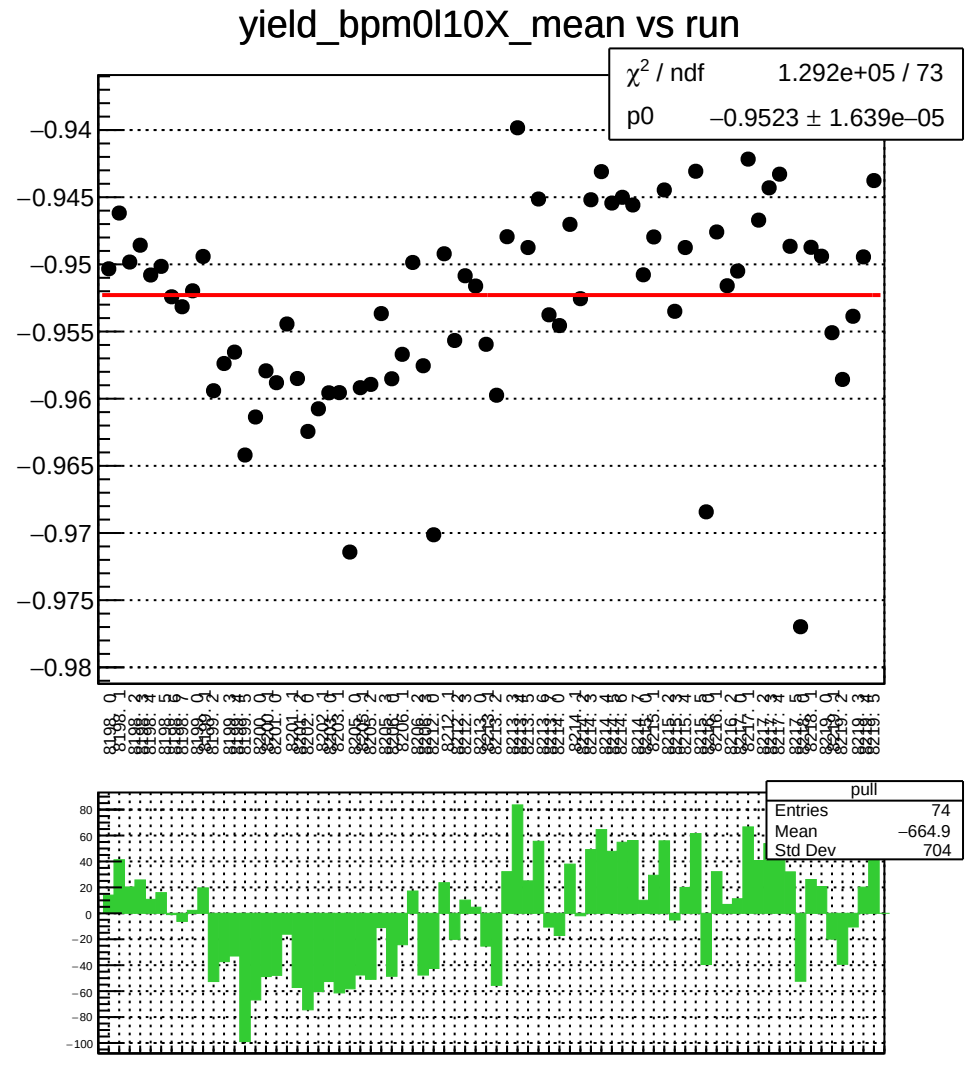

pull1D
Entries 74
Mean 0.5815
Std Dev 4.248
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

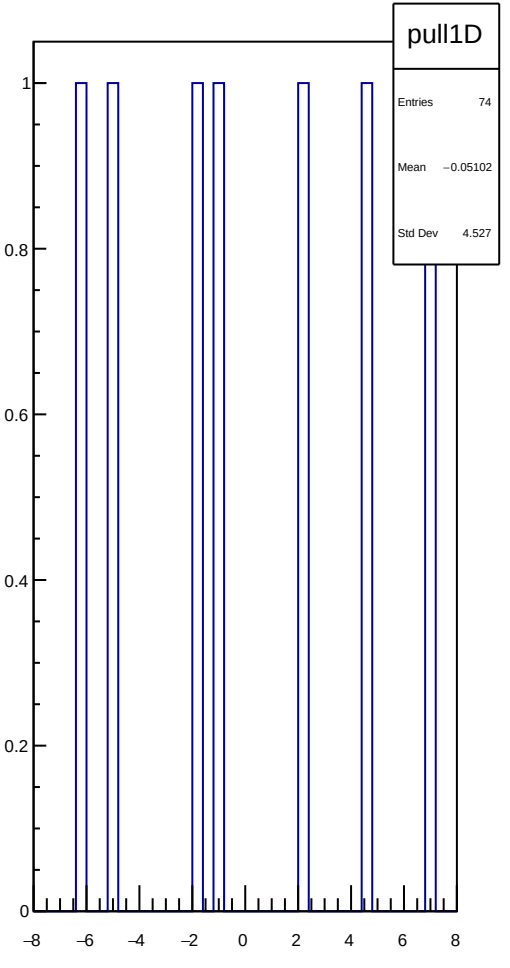

yield_bpm0l09X_rms vs run
χ² / ndf 5.272e+04 / 73
p0 0.01562 ± 1.297e−05
0.06
0.05
0.04
0.03
0.02
0.01

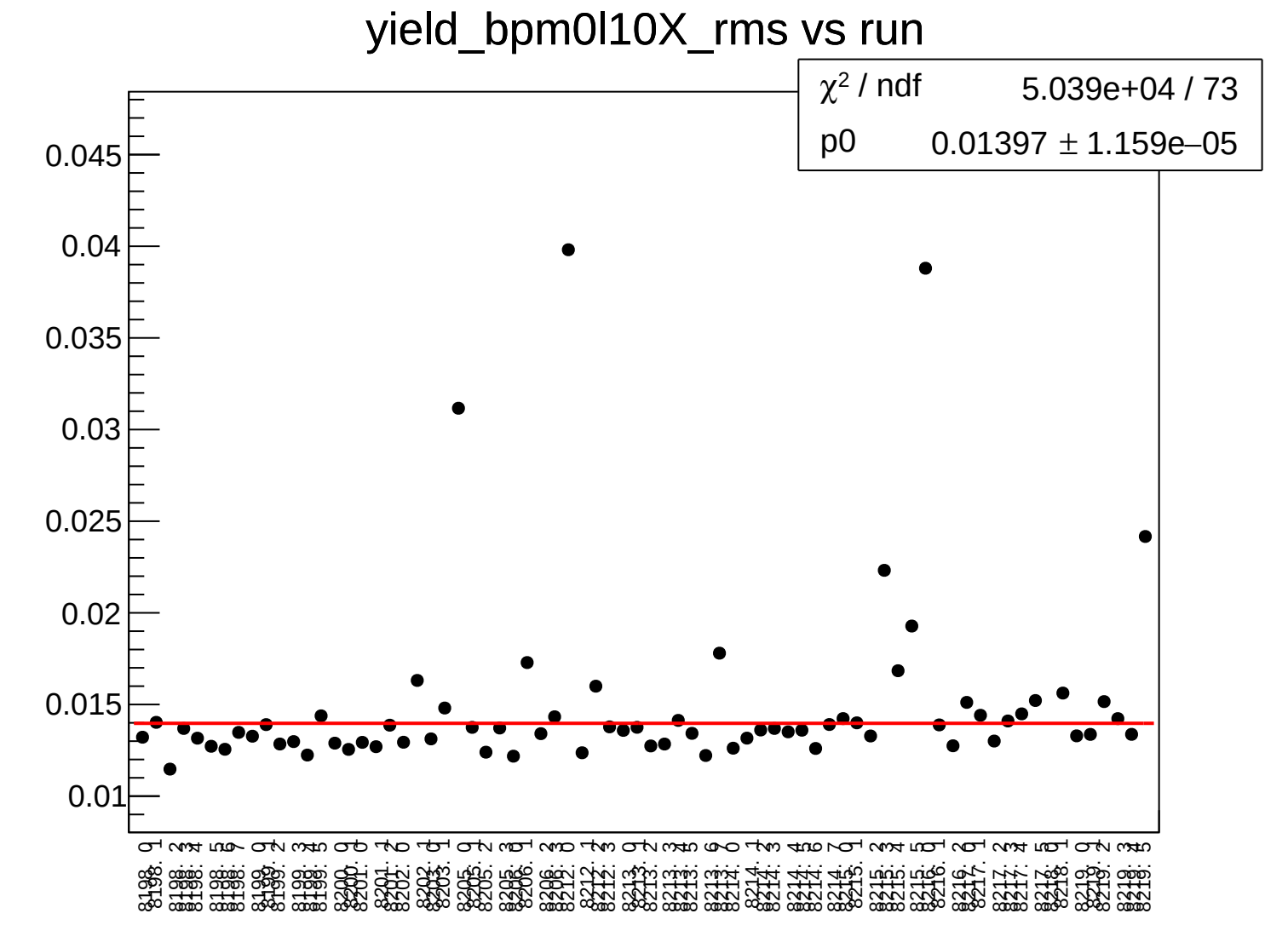

yield_bpm0l09Y_mean vs run
χ² / ndf 7.004e+05 / 73
p0 0.3006 ± 5.391e−06
pull
Entries 74
Mean 101
Std Dev 79.38

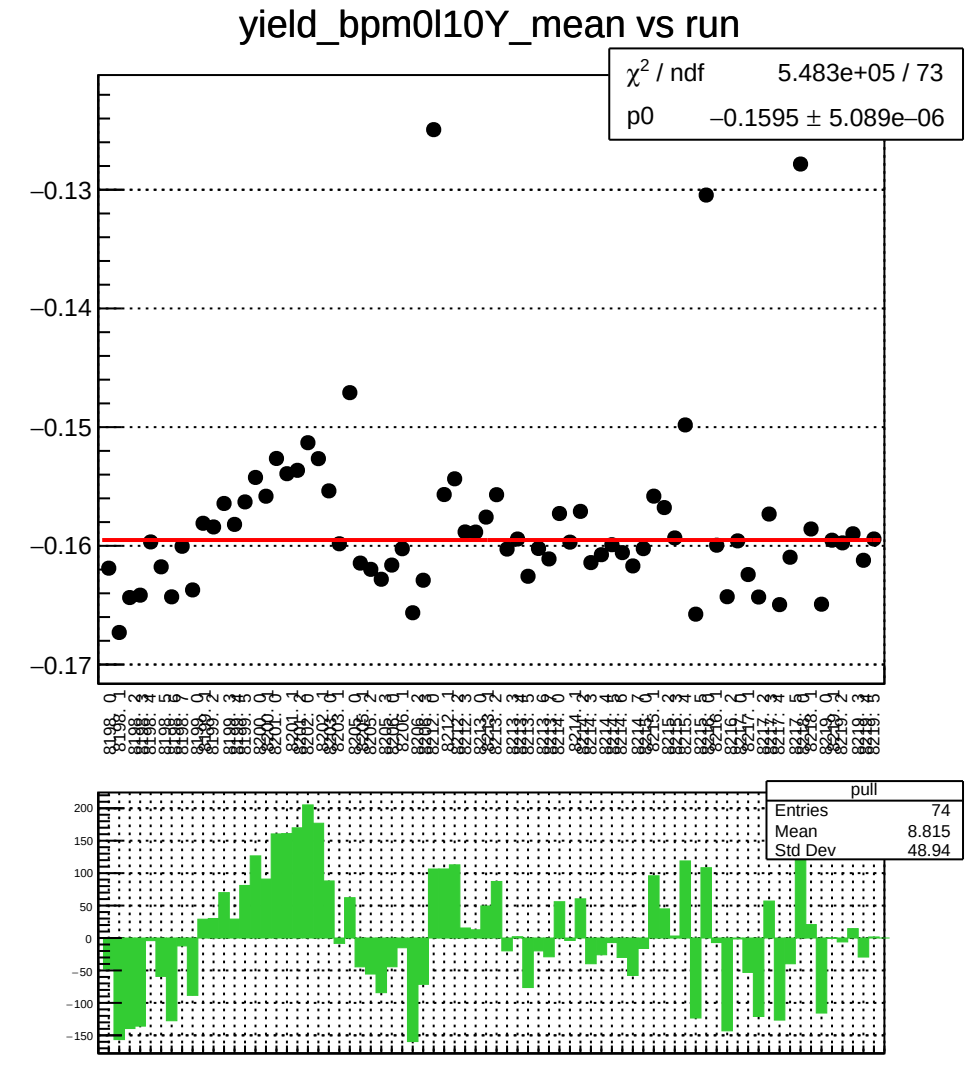

pull1D
Entries 74
Mean 4.108
Std Dev 3.594

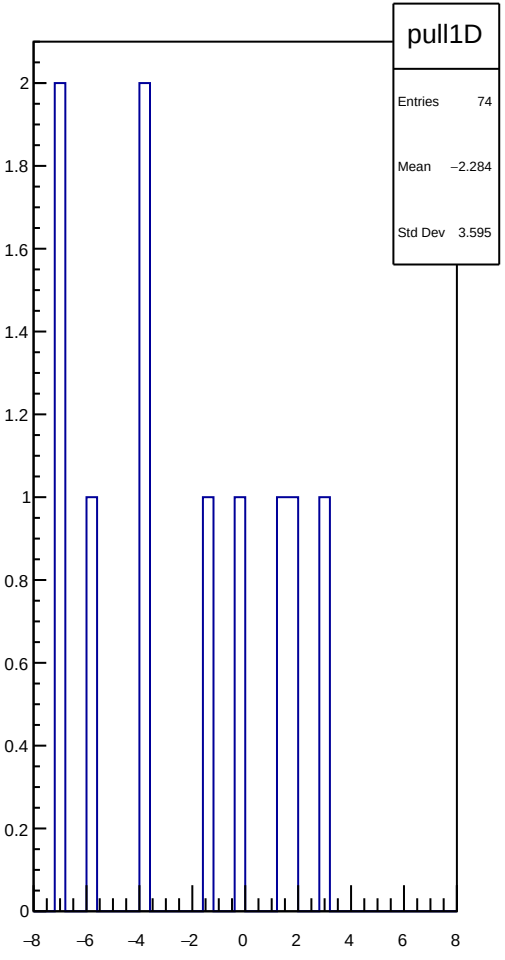

yield_bpm0l09Y_rms vs run
χ² / ndf 1.212e+05 / 73
p0 0.004481 ± 3.812e−06
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

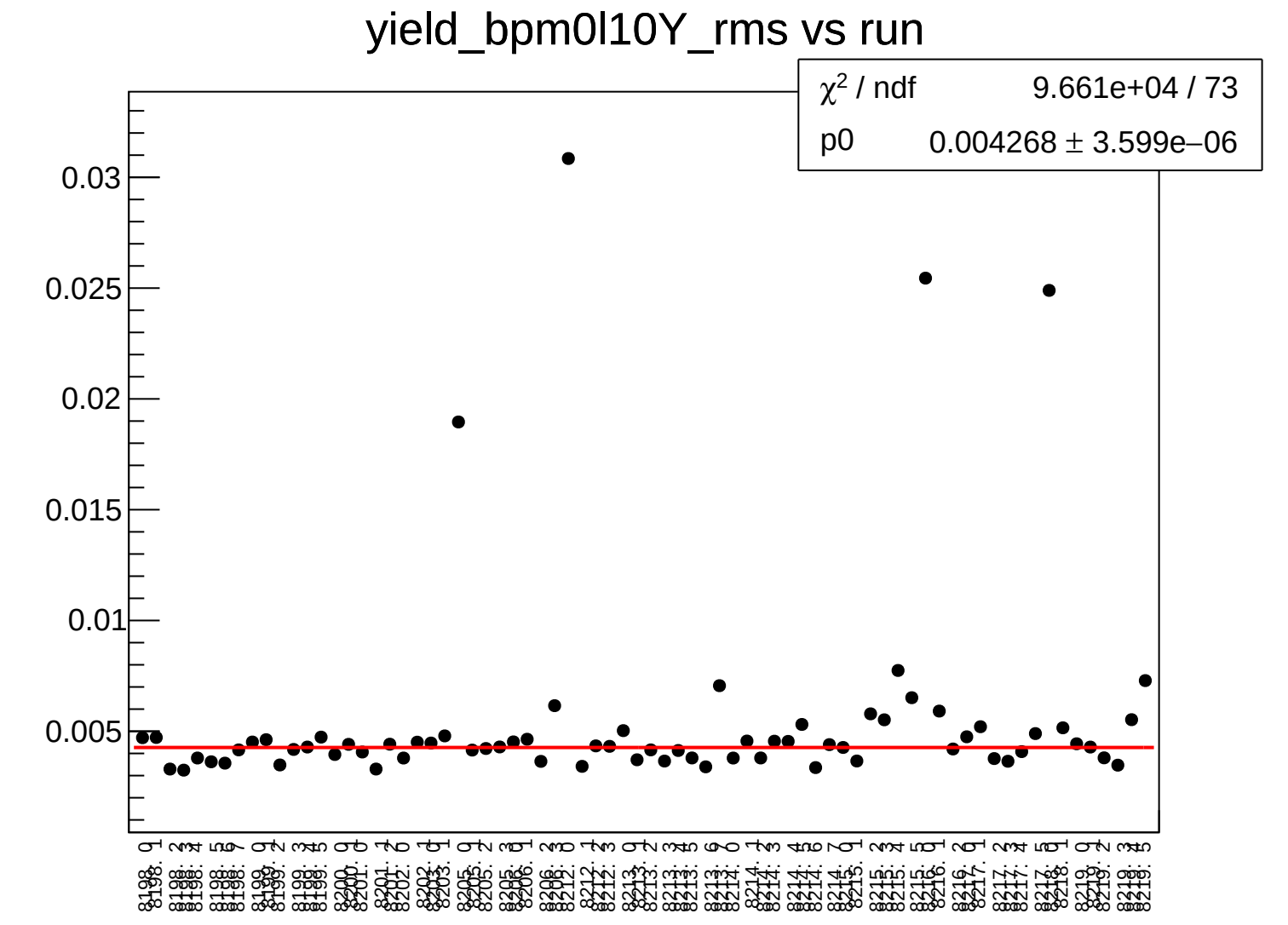

yield_bpm0l10X_mean vs run
χ² / ndf 1.292e+05 / 73
p0 −0.9523 ± 1.639e−05
−0.94
−0.945
−0.95
−0.955
−0.96
−0.965
−0.97
−0.975
−0.98
pull
Entries 74
Mean −664.9
Std Dev 704
80
60
40
20
0
−20
−40
−60
−80
−100

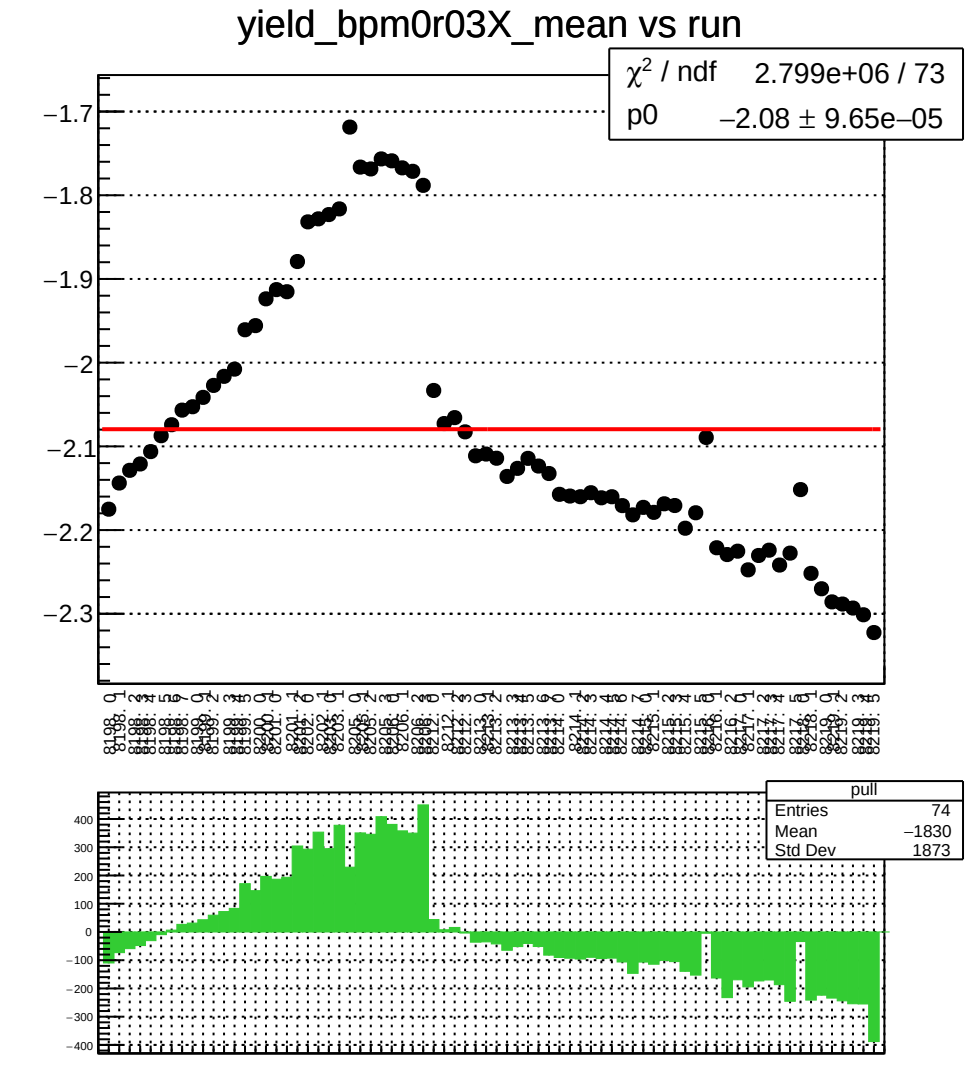

pull1D
Entries 74
Mean −0.05102
Std Dev 4.527
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

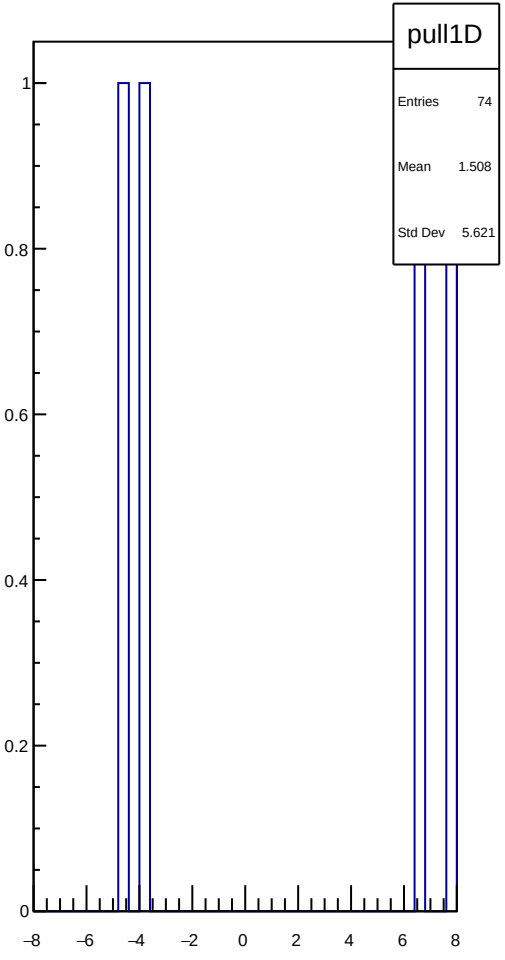

yield_bpm0l10X_rms vs run
χ² / ndf 5.039e+04 / 73
p0 0.01397 ± 1.159e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01

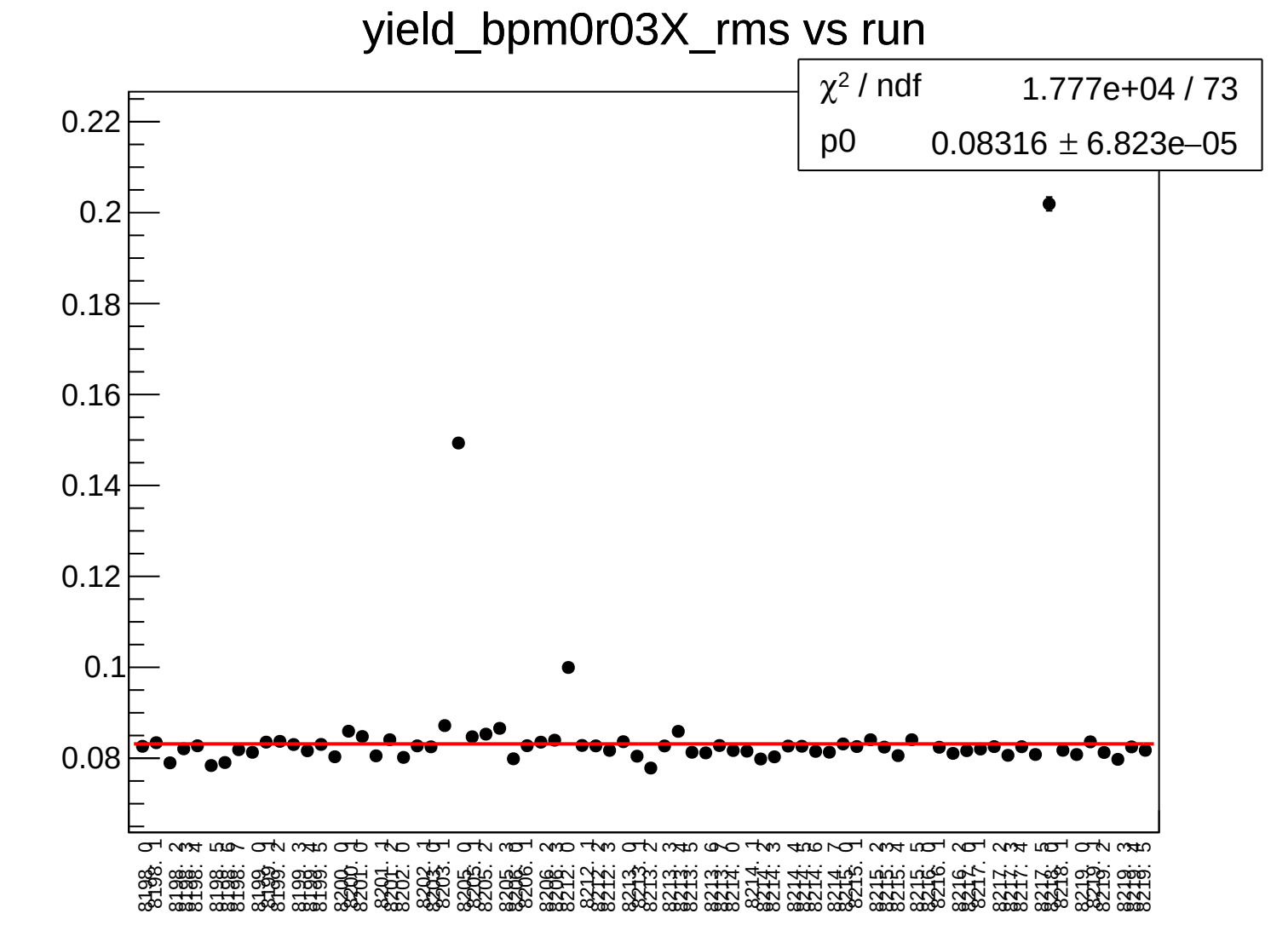

yield_bpm0l10Y_mean vs run
χ² / ndf 5.483e+05 / 73
p0 −0.1595 ± 5.089e−06
−0.13
−0.14
−0.15
−0.16
−0.17
pull
Entries 74
Mean 8.815
Std Dev 48.94
200
150
100
50
0
−50
−100
−150

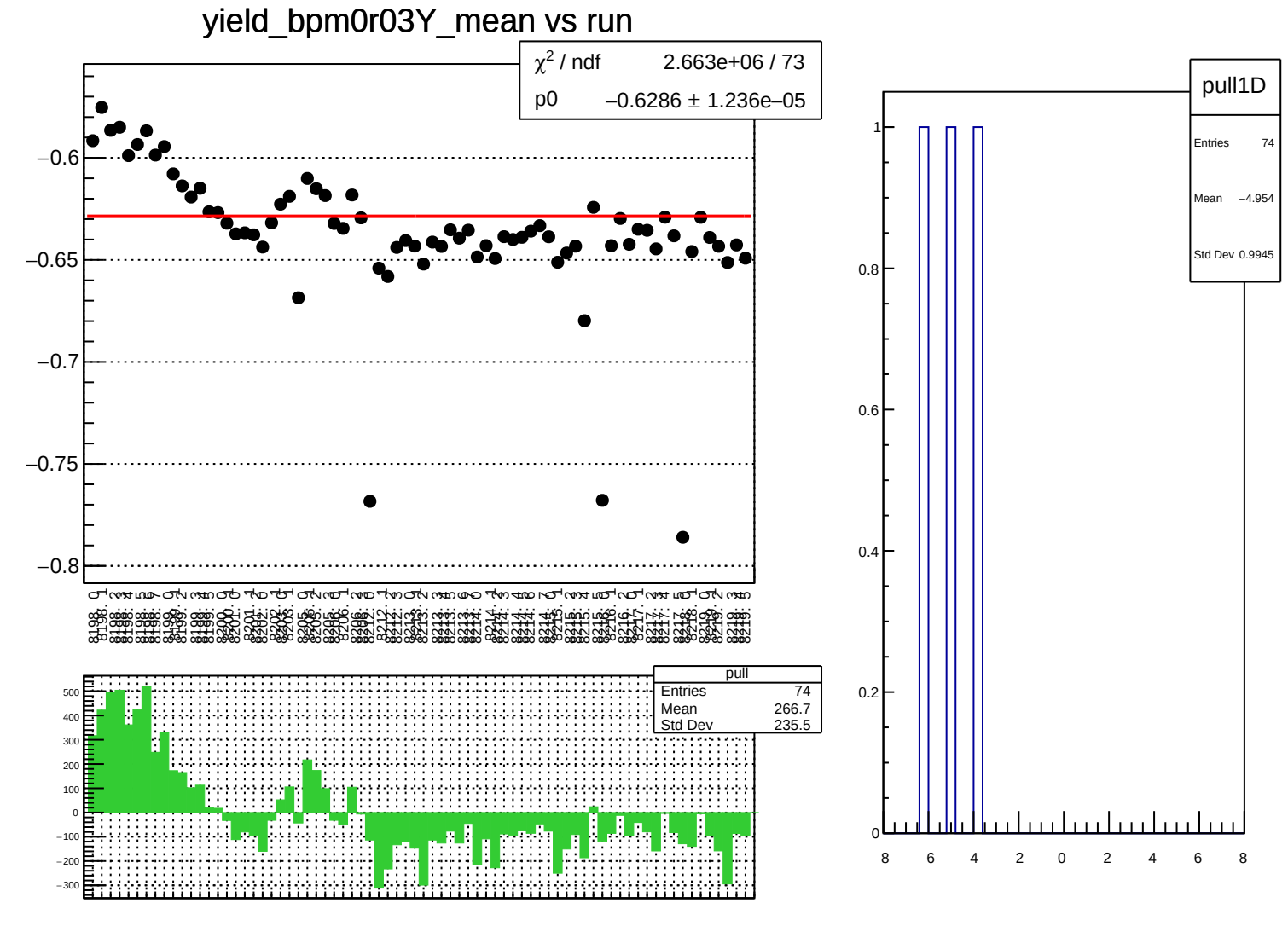

pull1D
Entries 74
Mean −2.284
Std Dev 3.595
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

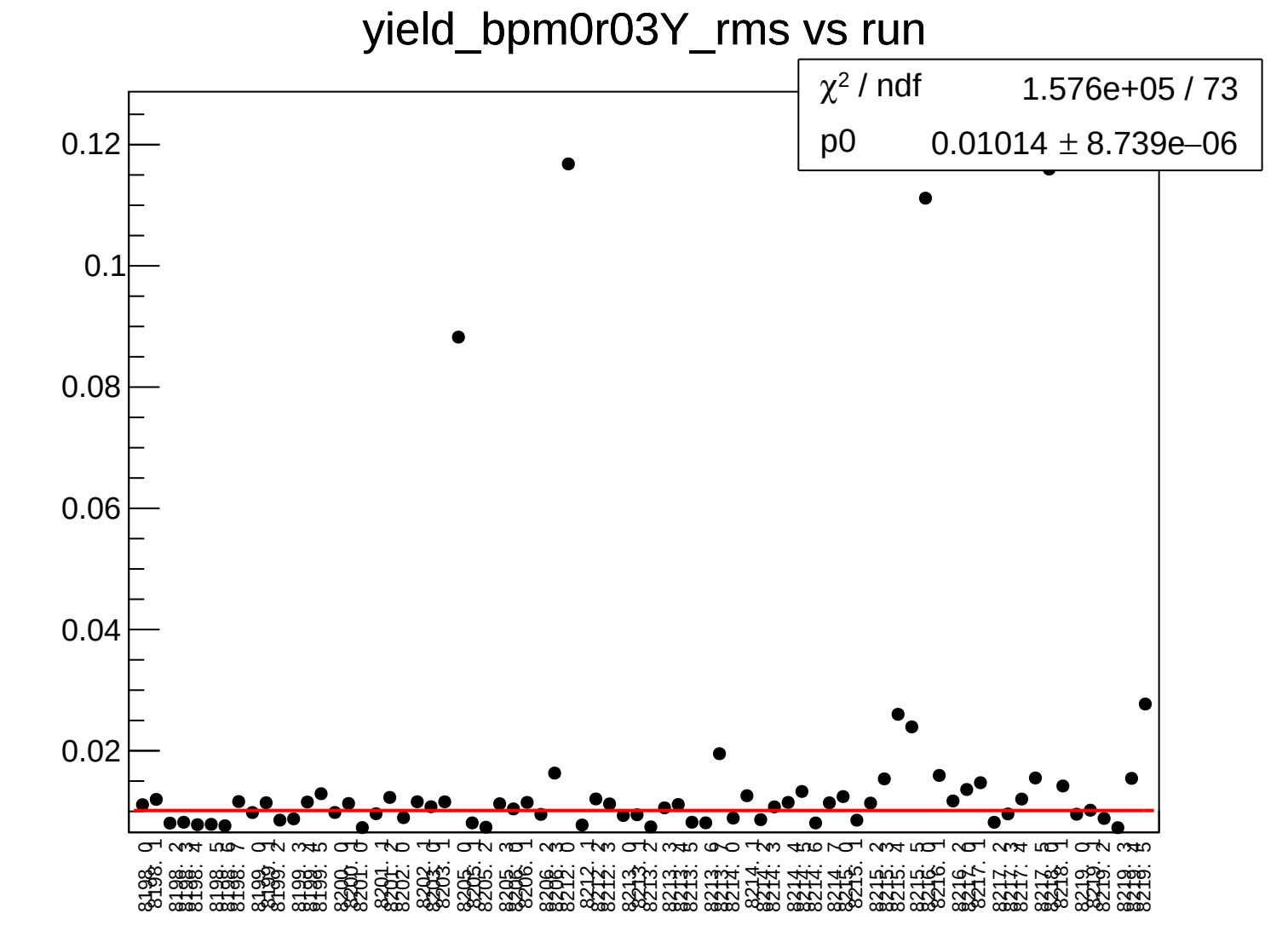

yield_bpm0l10Y_rms vs run
χ² / ndf 9.661e+04 / 73
p0 0.004268 ± 3.599e−06
0.03
0.025
0.02
0.015
0.01
0.005

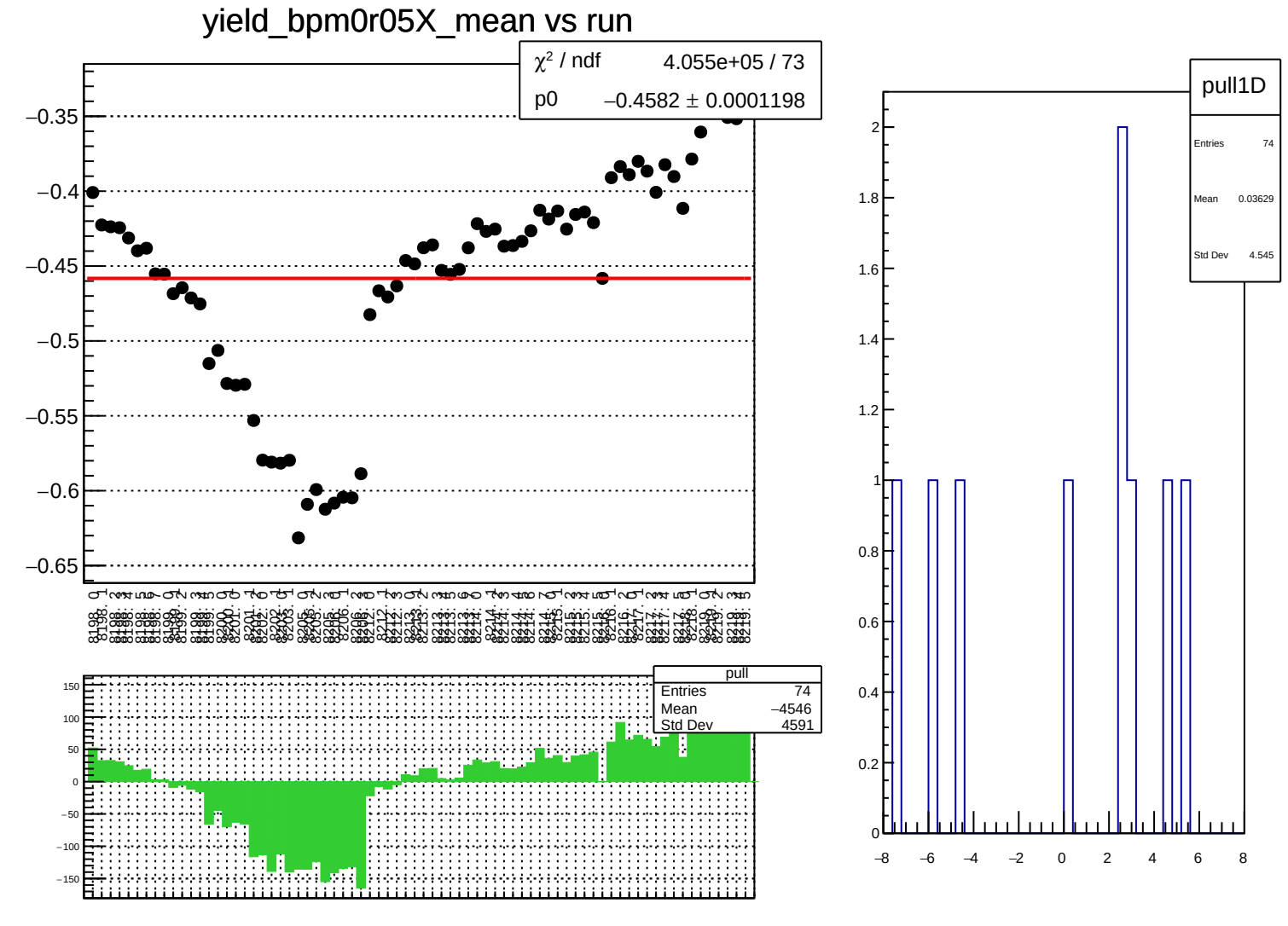

yield_bpm0r03X_mean vs run
χ² / ndf 2.799e+06 / 73
p0 −2.08 ± 9.65e−05
pull
Entries 74
Mean −1830
Std Dev 1873

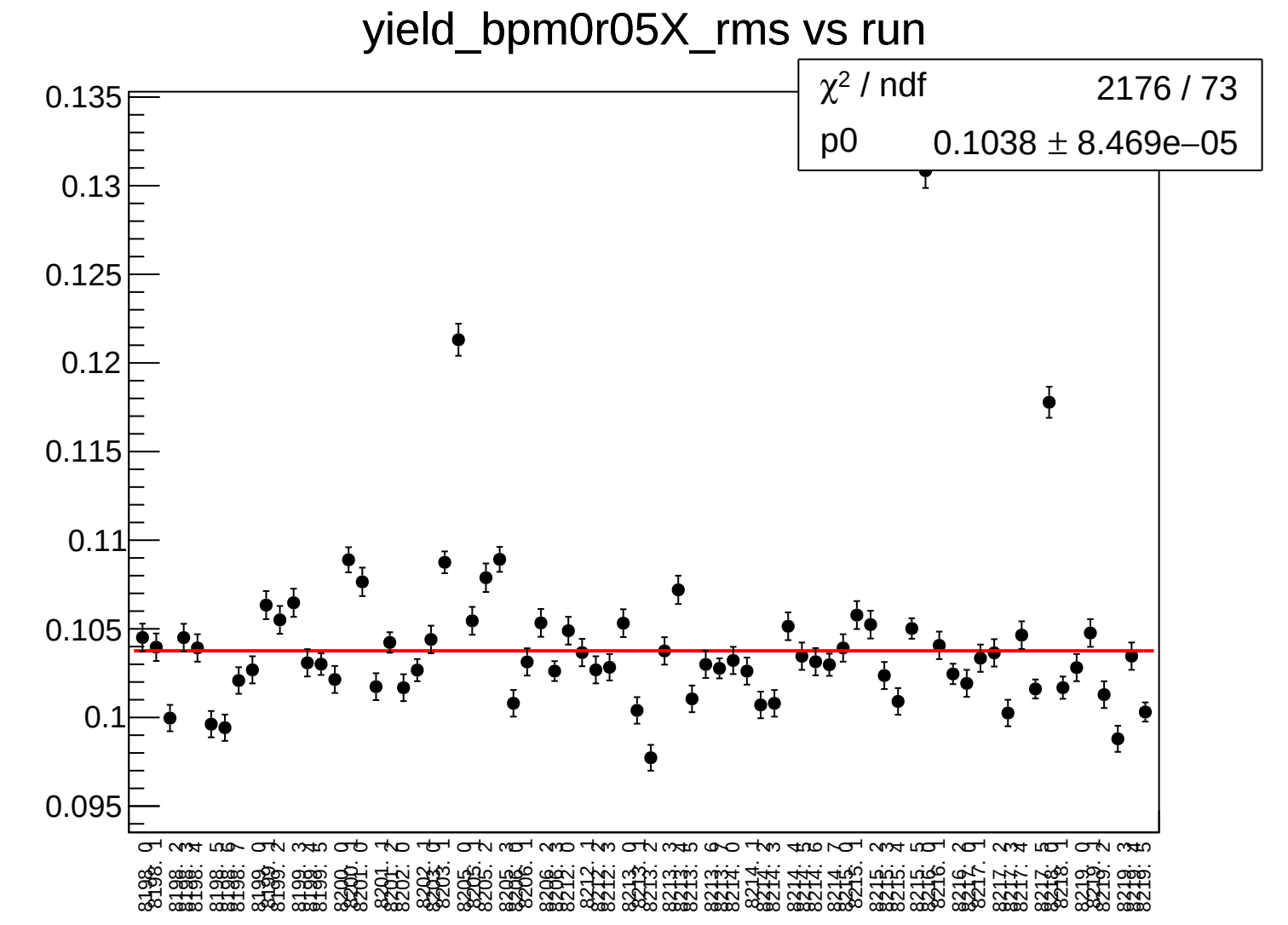

pull1D
Entries 74
Mean 1.508
Std Dev 5.621

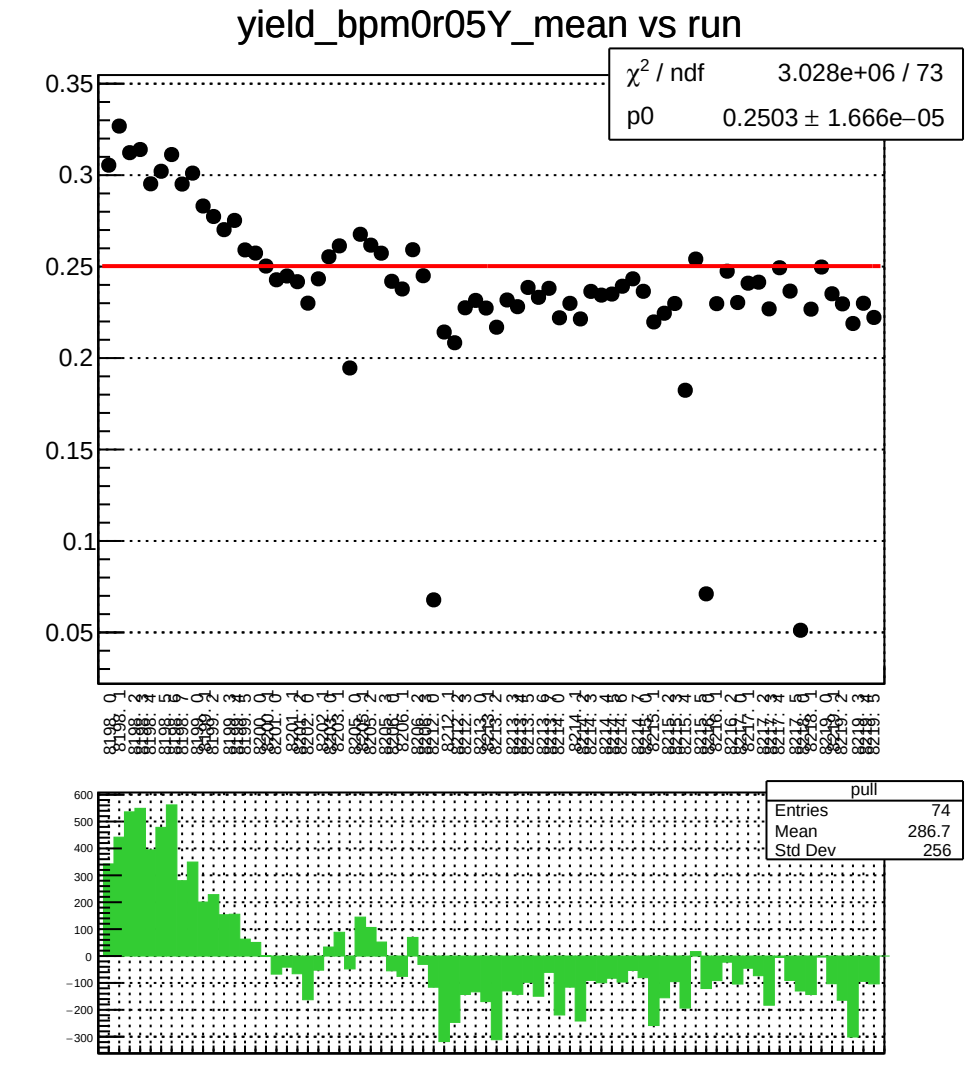

yield_bpm0r03X_rms vs run
χ² / ndf 1.777e+04 / 73
p0 0.08316 ± 6.823e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

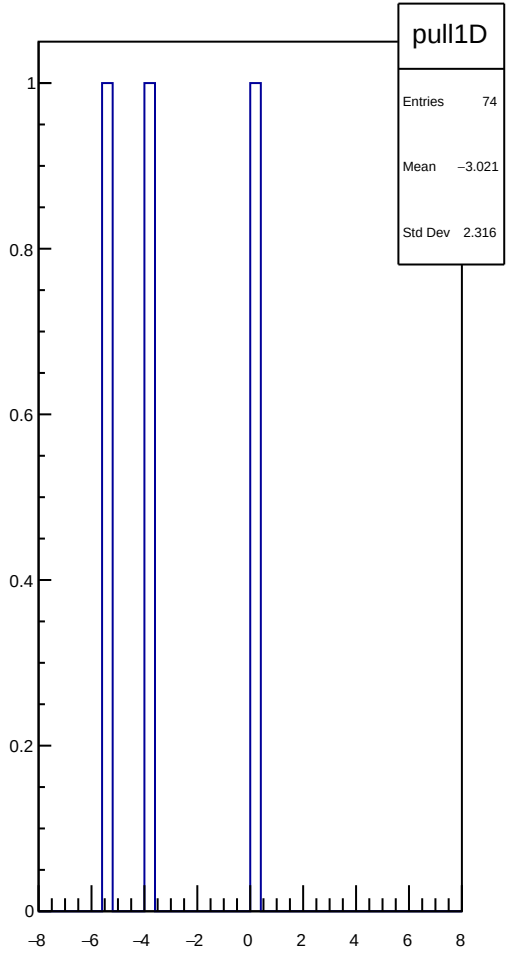

yield_bpm0r03Y_mean vs run
χ² / ndf 2.663e+06 / 73
p0 −0.6286 ± 1.236e−05
−0.6
−0.65
−0.7
−0.75
−0.8
pull
Entries 74
Mean 266.7
Std Dev 235.5
500
400
300
200
100
0
−100
−200
−300
pull1D
Entries 74
Mean −4.954
Std Dev 0.9945
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

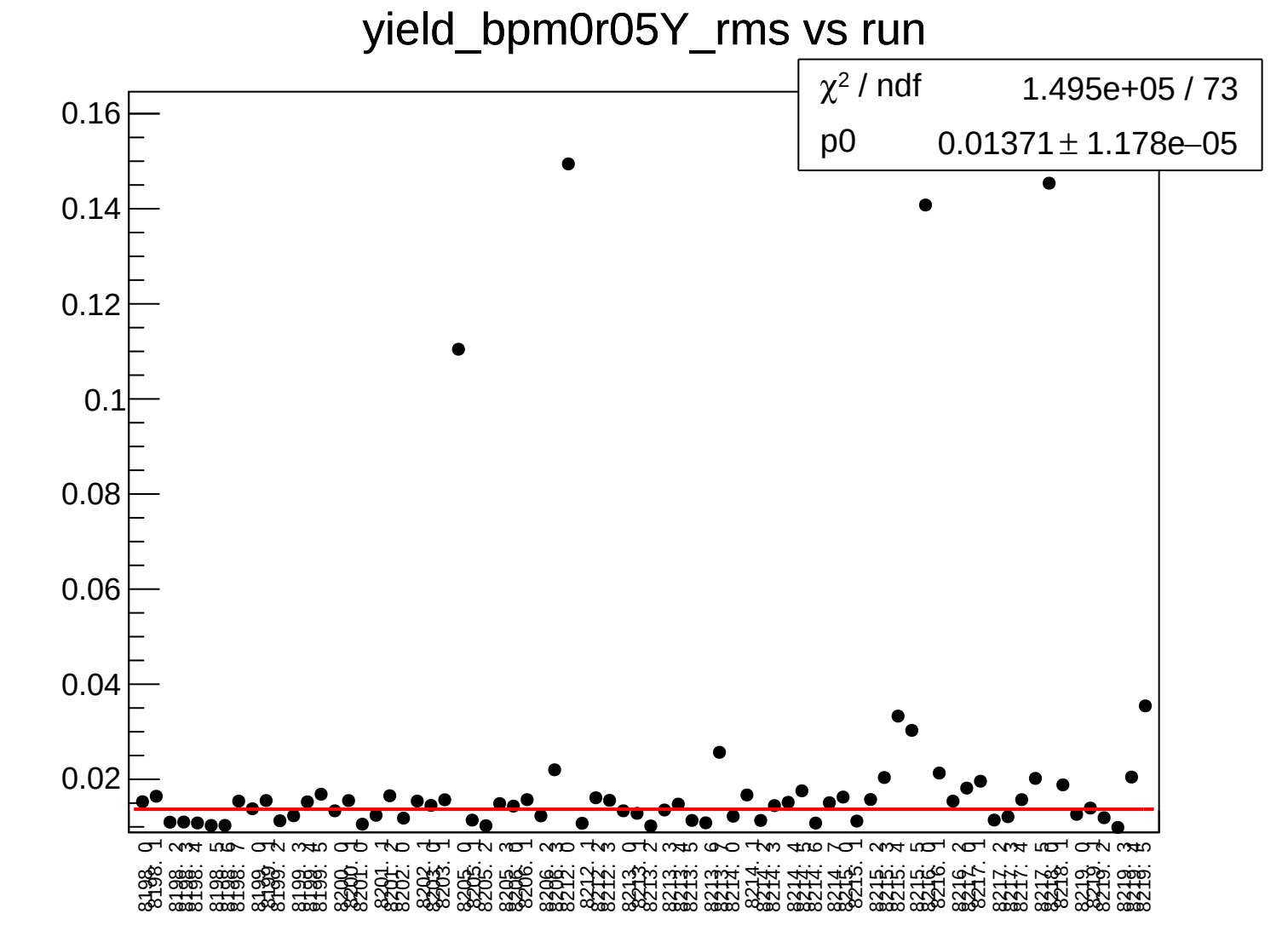

yield_bpm0r03Y_rms vs run
χ² / ndf 1.576e+05 / 73
p0 0.01014 ± 8.739e–06
0.12
0.1
0.08
0.06
0.04
0.02

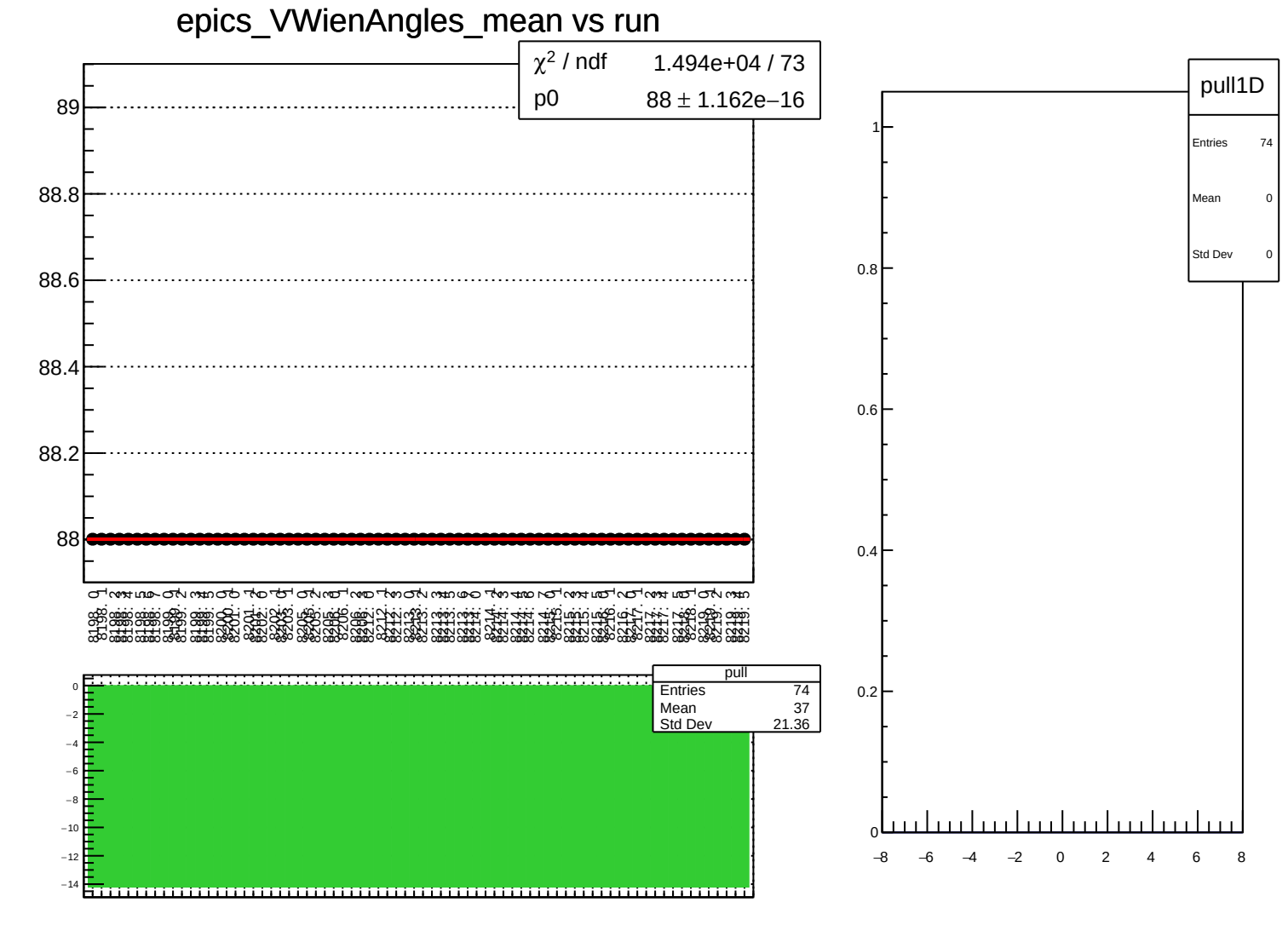

yield_bpm0r05X_mean vs run
χ² / ndf 4.055e+05 / 73
p0 −0.4582 ± 0.0001198
pull
Entries 74
Mean −4546
Std Dev 4591
pull1D
Entries 74
Mean 0.03629
Std Dev 4.545

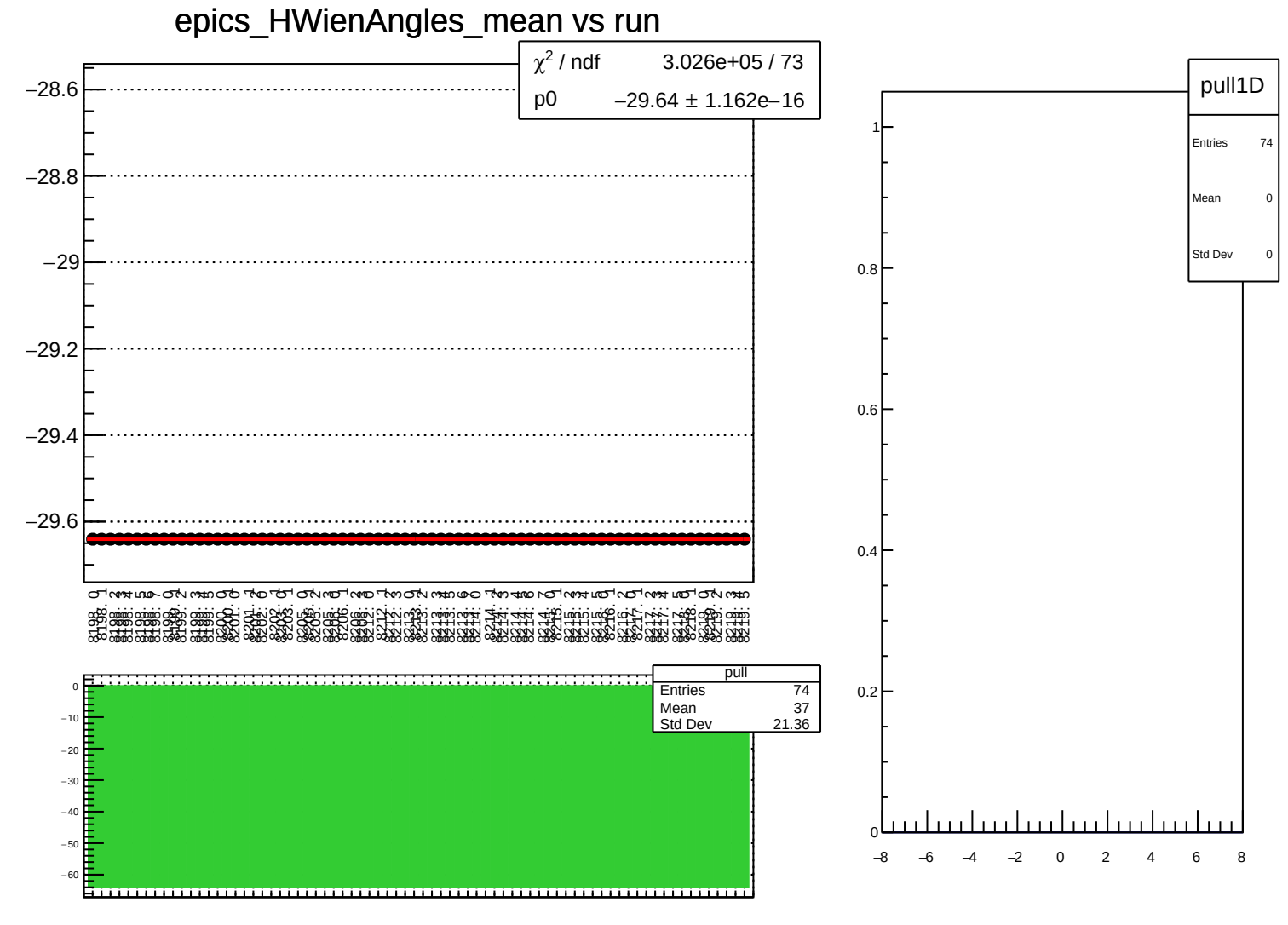

yield_bpm0r05X_rms vs run
χ² / ndf 2176 / 73
p0 0.1038 ± 8.469e−05
0.135
0.13
0.125
0.12
0.115
0.11
0.105
0.1
0.095

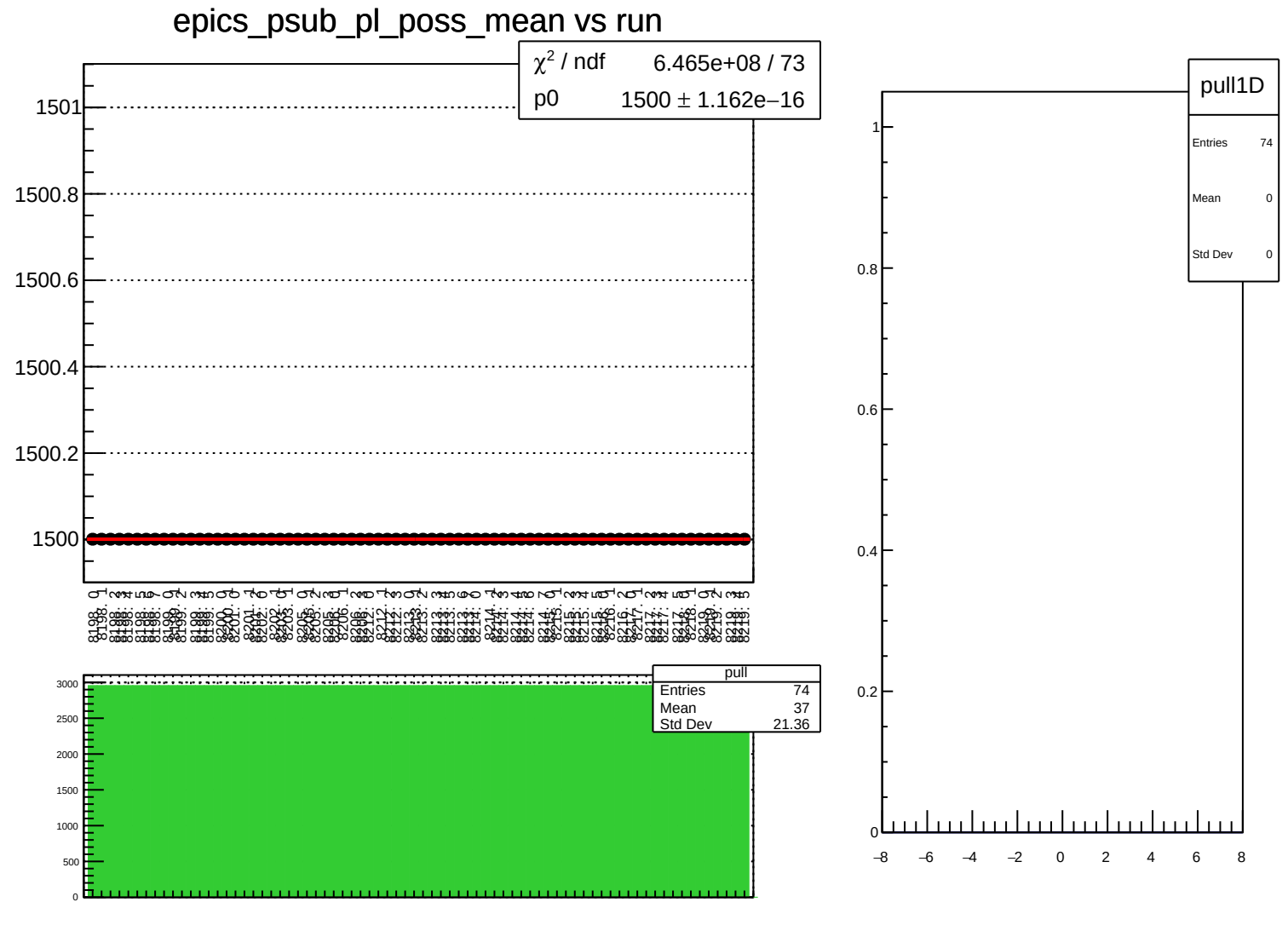

yield_bpm0r05Y_mean vs run
χ² / ndf 3.028e+06 / 73
p0 0.2503 ± 1.666e−05
pull
Entries 74
Mean 286.7
Std Dev 256

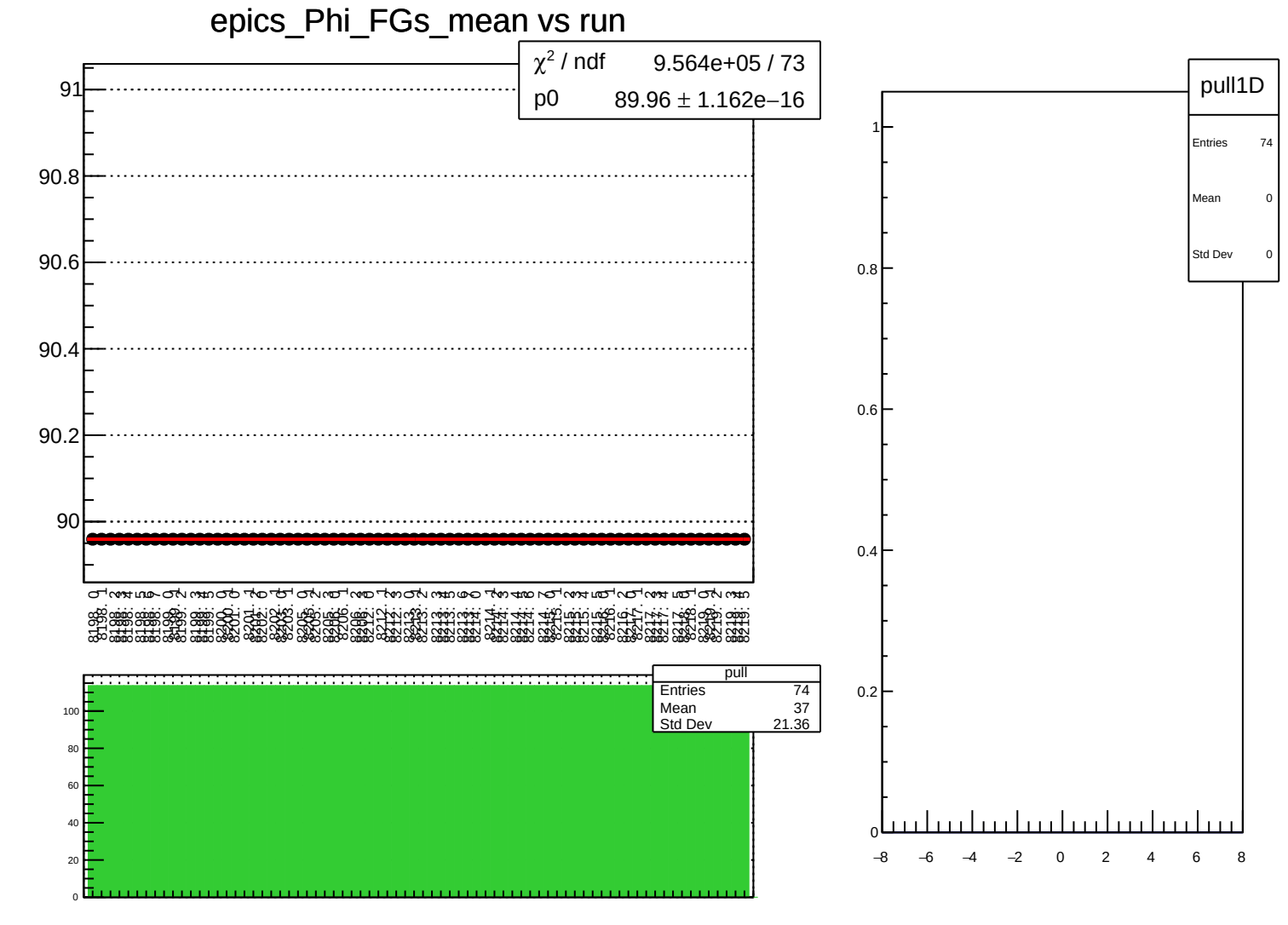

pull1D
Entries 74
Mean −3.021
Std Dev 2.316

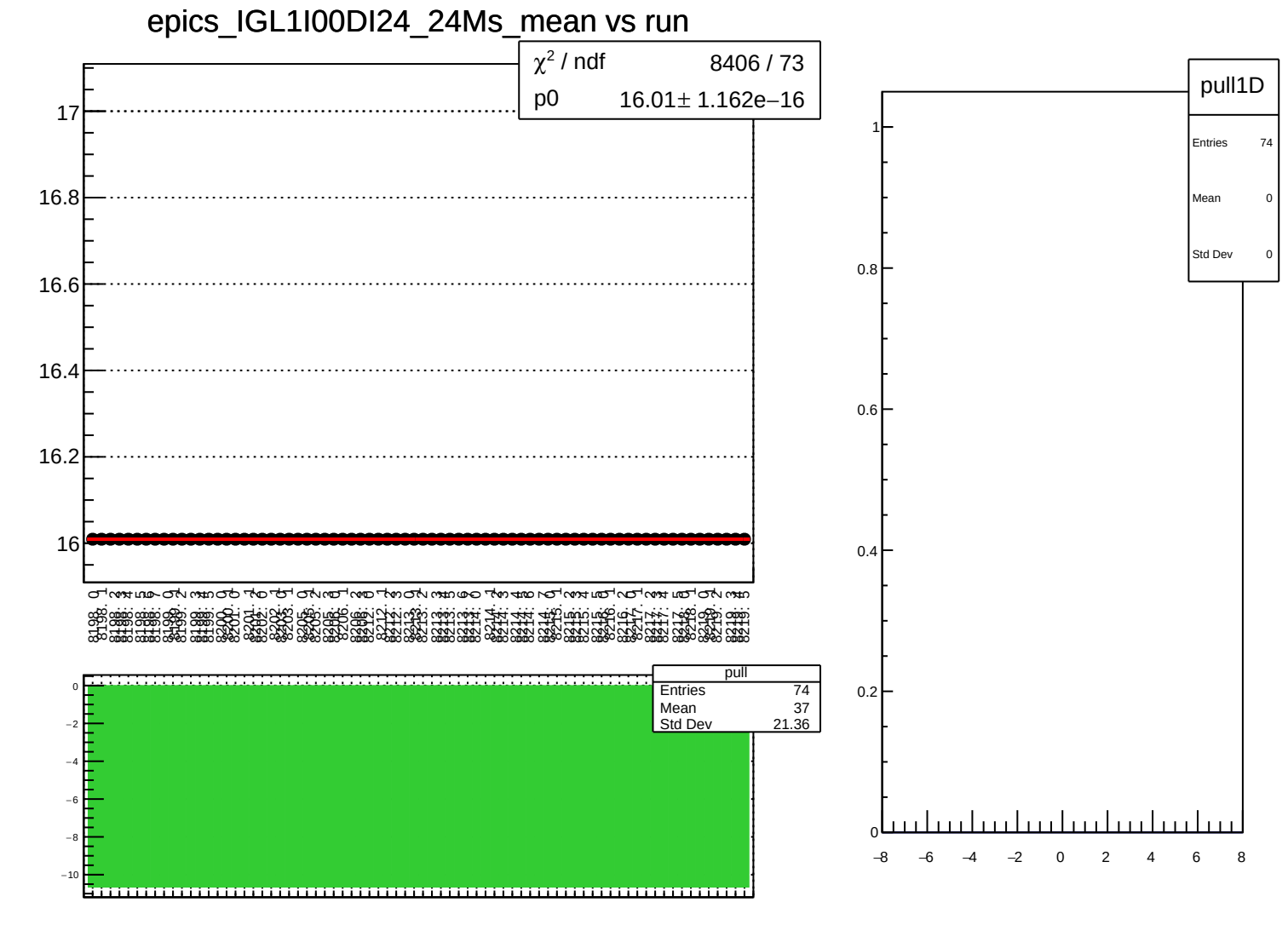

yield_bpm0r05Y_rms vs run
χ² / ndf 1.495e+05 / 73
p0 0.01371 ± 1.178e–05
0.16
0.14
0.12
0.1
0.08
0.06
0.04
0.02

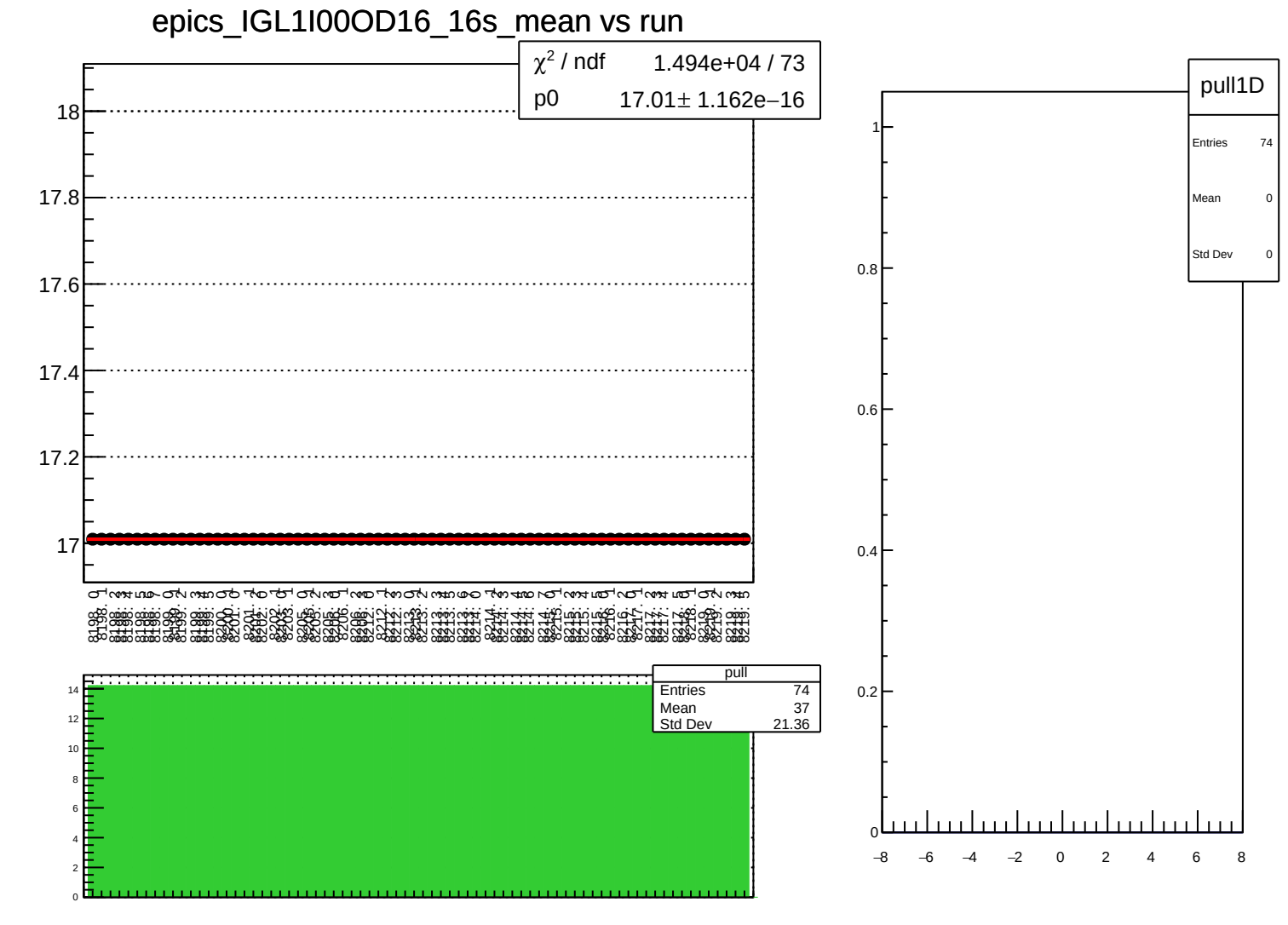

epics_VWienAngles_mean vs run
χ² / ndf 1.494e+04 / 73
p0 88 ± 1.162e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

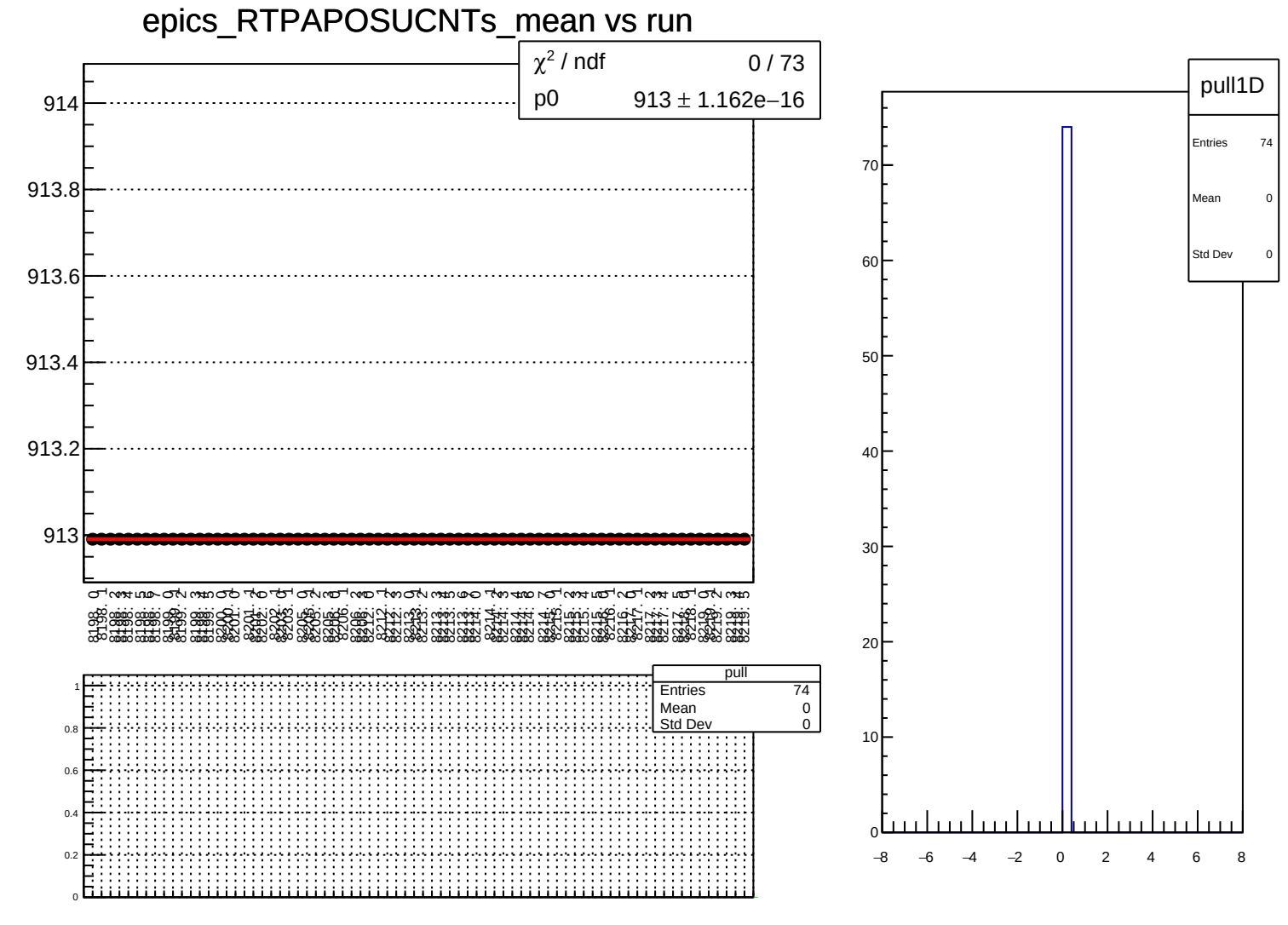

epics_HWienAngles_mean vs run
χ² / ndf 3.026e+05 / 73
p0 −29.64 ± 1.162e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 74
Mean 37
Std Dev 21.36
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

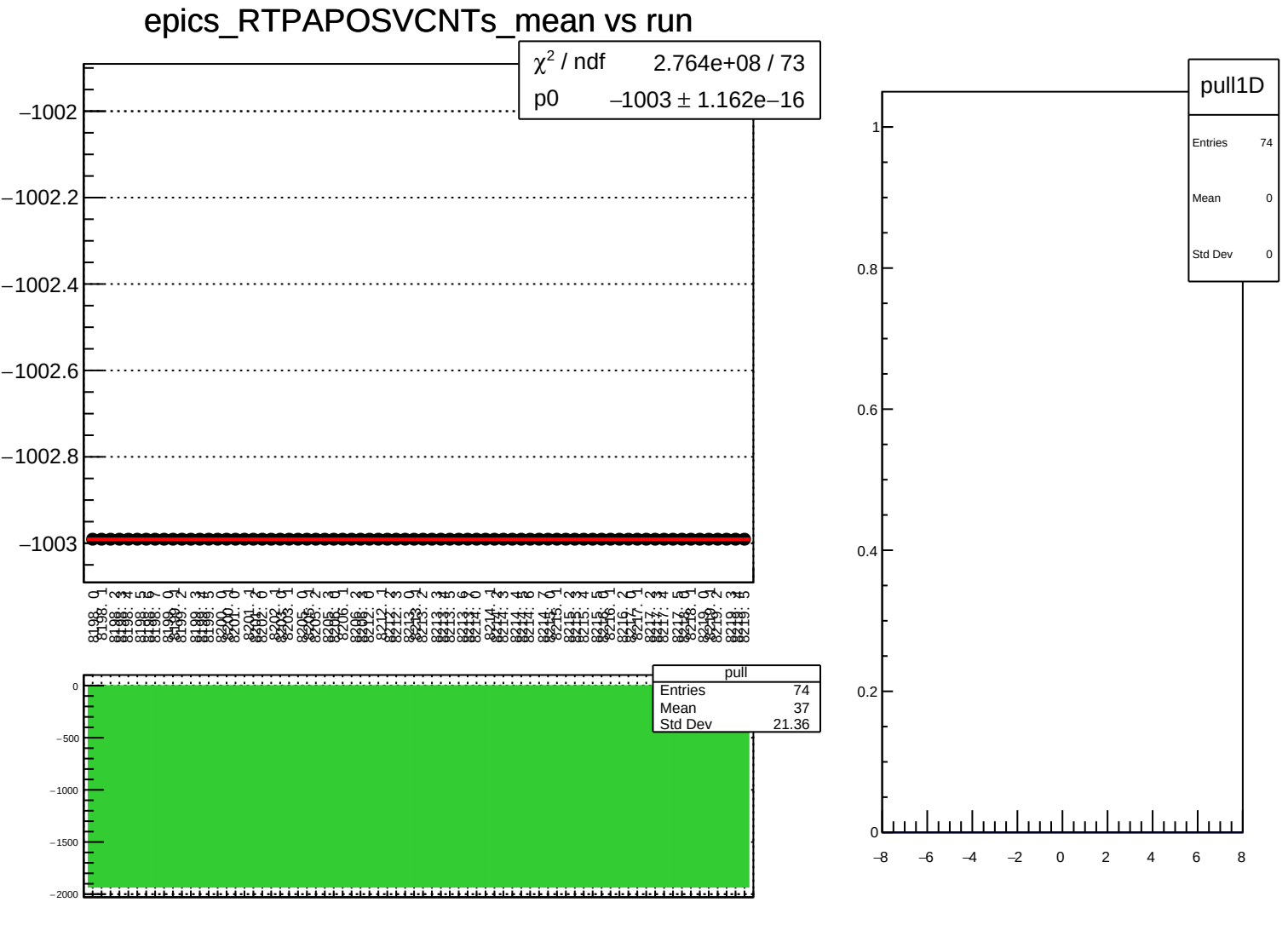

epics_psub_pl_poss_mean vs run
χ² / ndf 6.465e+08 / 73
p0 1500 ± 1.162e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 74
Mean 37
Std Dev 21.36
3000
2500
2000
1500
1000
500
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

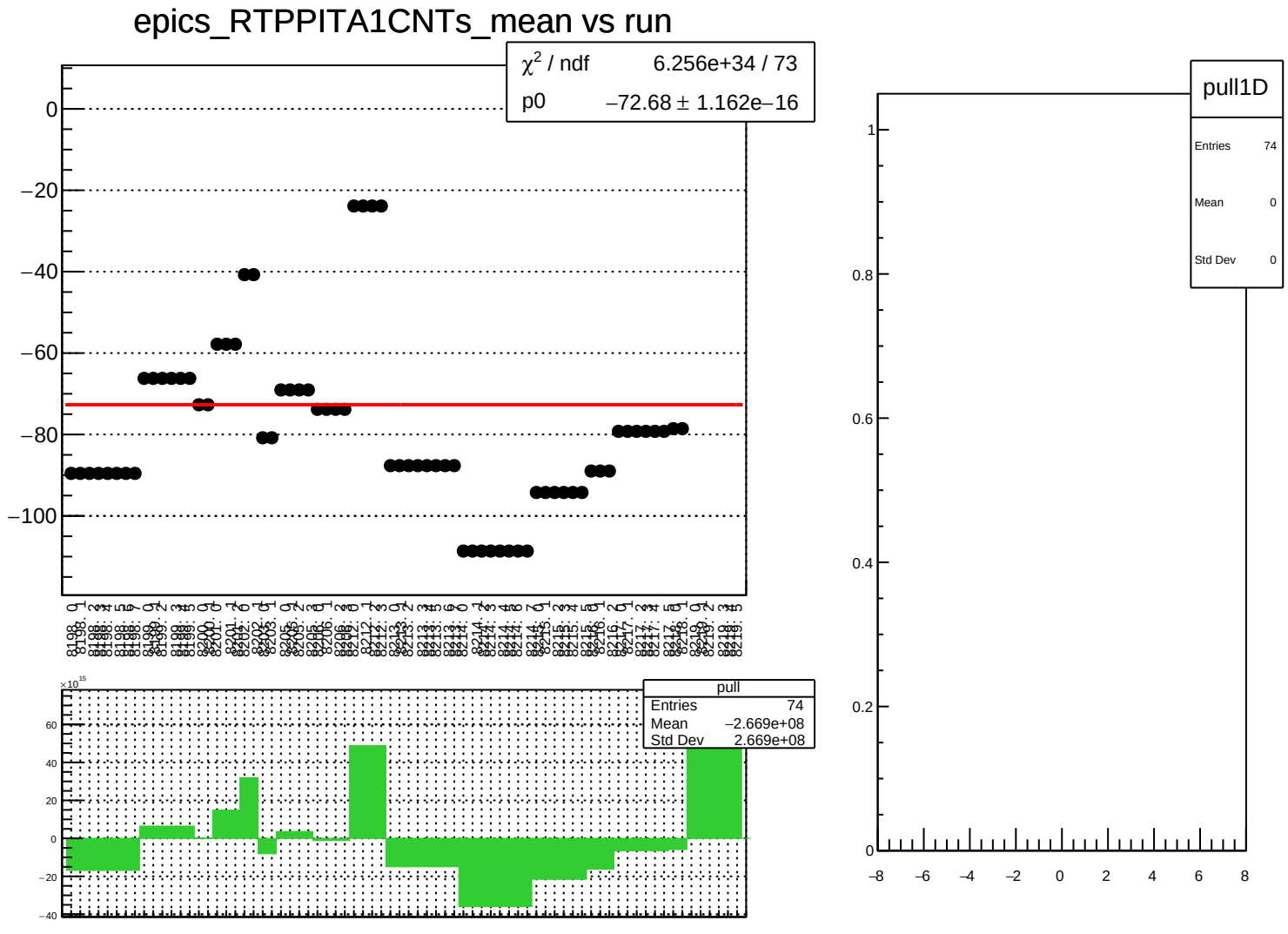

epics_Phi_FGs_mean vs run
χ² / ndf 9.564e+05 / 73
p0 89.96 ± 1.162e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 74
Mean 37
Std Dev 21.36
100
80
60
40
20
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

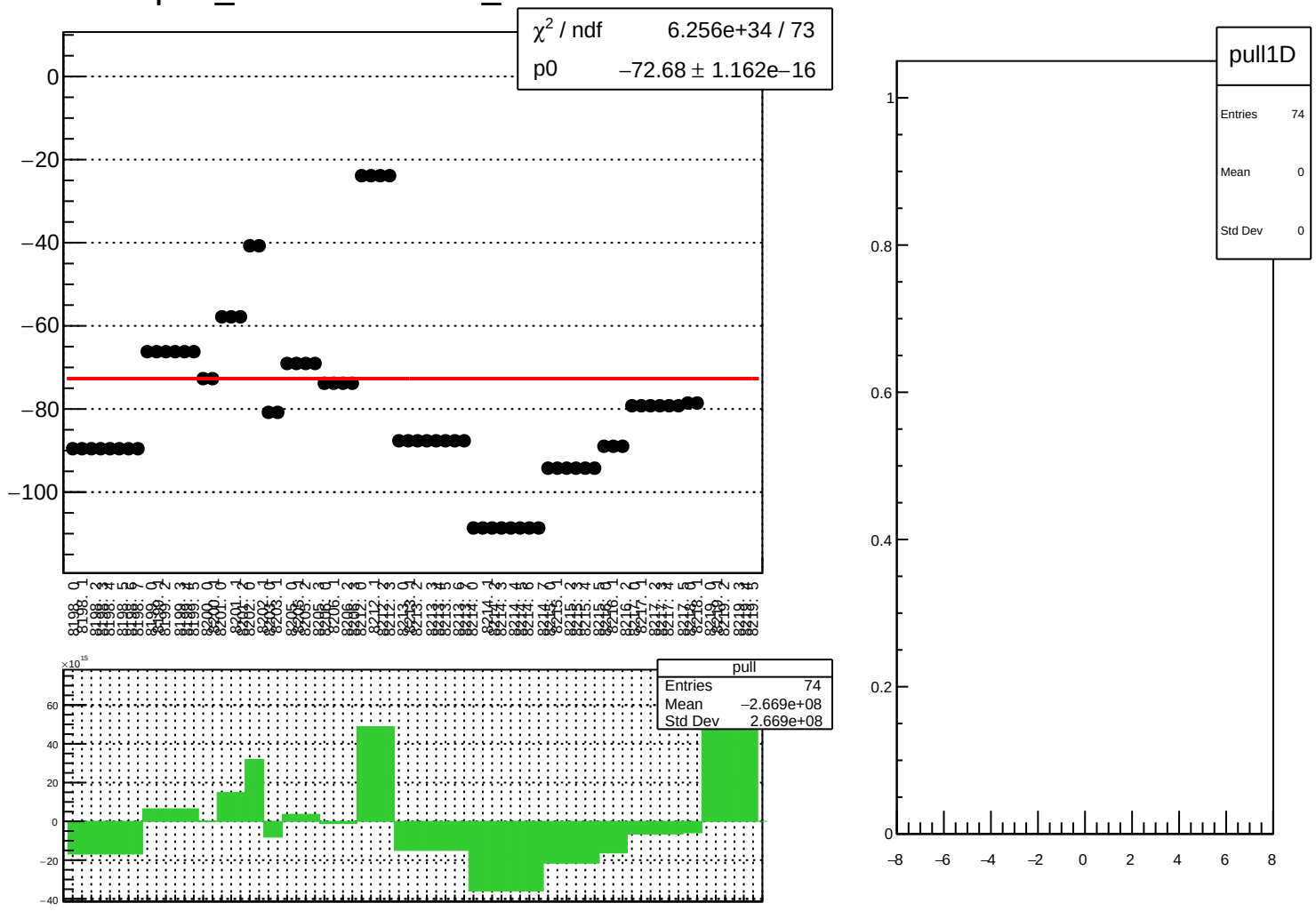

epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 8406 / 73
p0 16.01± 1.162e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_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_RTPAPOSUCNTs_mean vs run
χ² / ndf 0 / 73
p0 913 ± 1.162e−16
914
913.8
913.6
913.4
913.2
913
pull
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
pull1D
Entries 74
Mean 0
Std Dev 0
70
60
50
40
30
20
10
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 2.764e+08 / 73
p0 −1003 ± 1.162e−16
−1002
−1002.2
−1002.4
−1002.6
−1002.8
−1003
pull
Entries 74
Mean 37
Std Dev 21.36
0
−500
−1000
−1500
−2000
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_RTPPITA1CNTs_mean vs run
χ² / ndf 6.256e+34 / 73
p0 −72.68 ± 1.162e−16
pull
Entries 74
Mean −2.669e+08
Std Dev 2.669e+08
pull1D
Entries 74
Mean 0
Std Dev 0


epics_RTPPITA2CNTs_mean vs run
χ² / ndf 6.256e+34 / 73
p0 −72.68 ± 1.162e−16
pull
Entries 74
Mean −2.669e+08
Std Dev 2.669e+08
pull1D
Entries 74
Mean 0
Std Dev 0