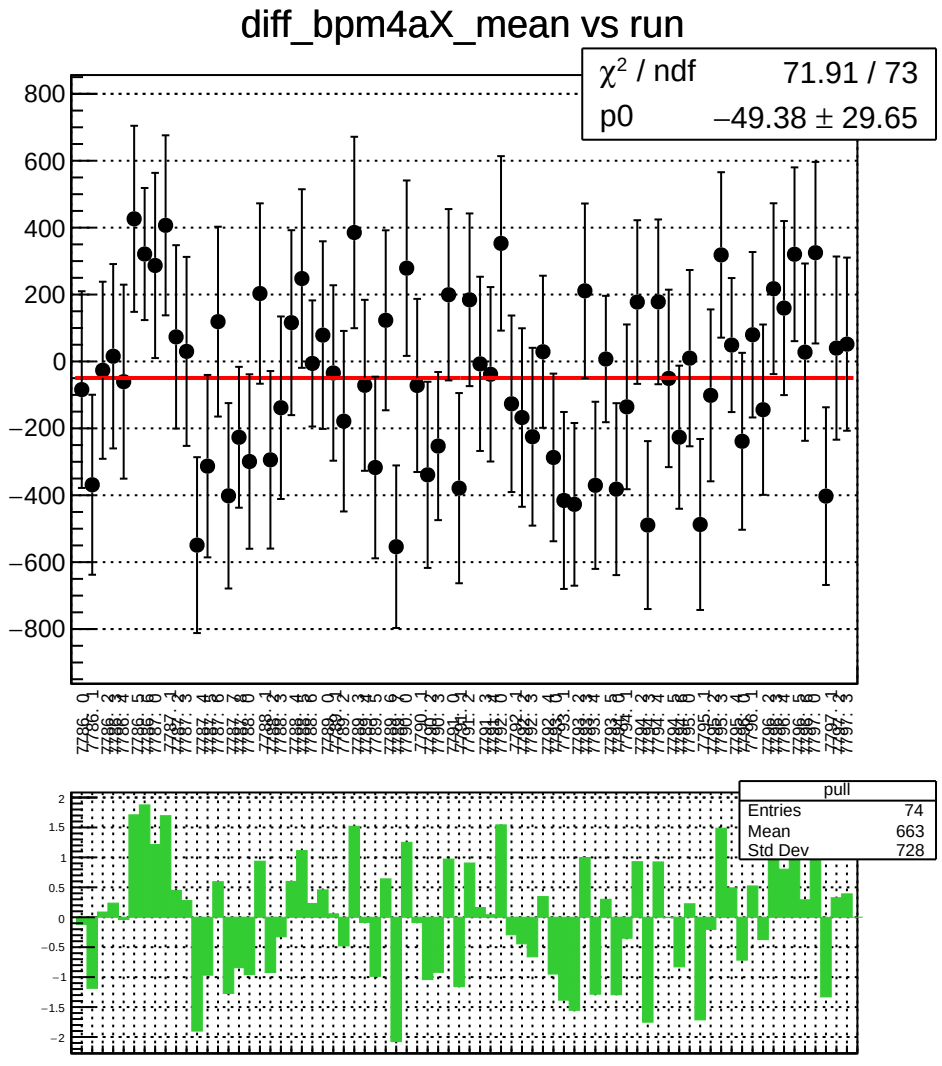
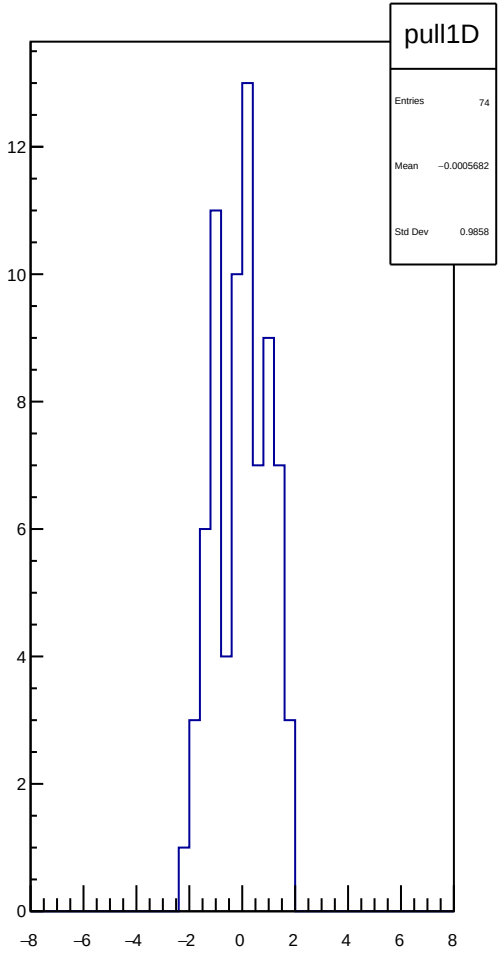
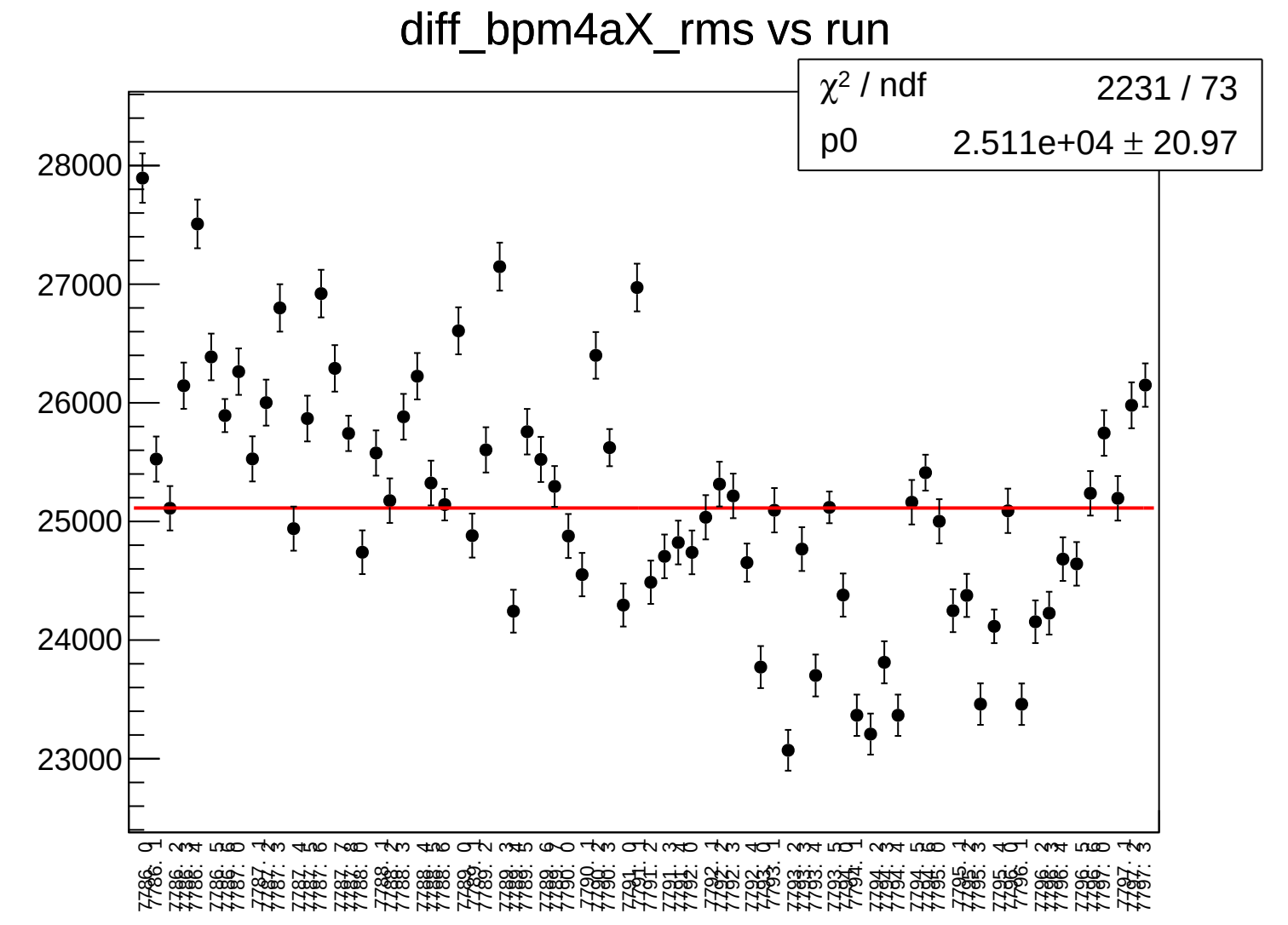
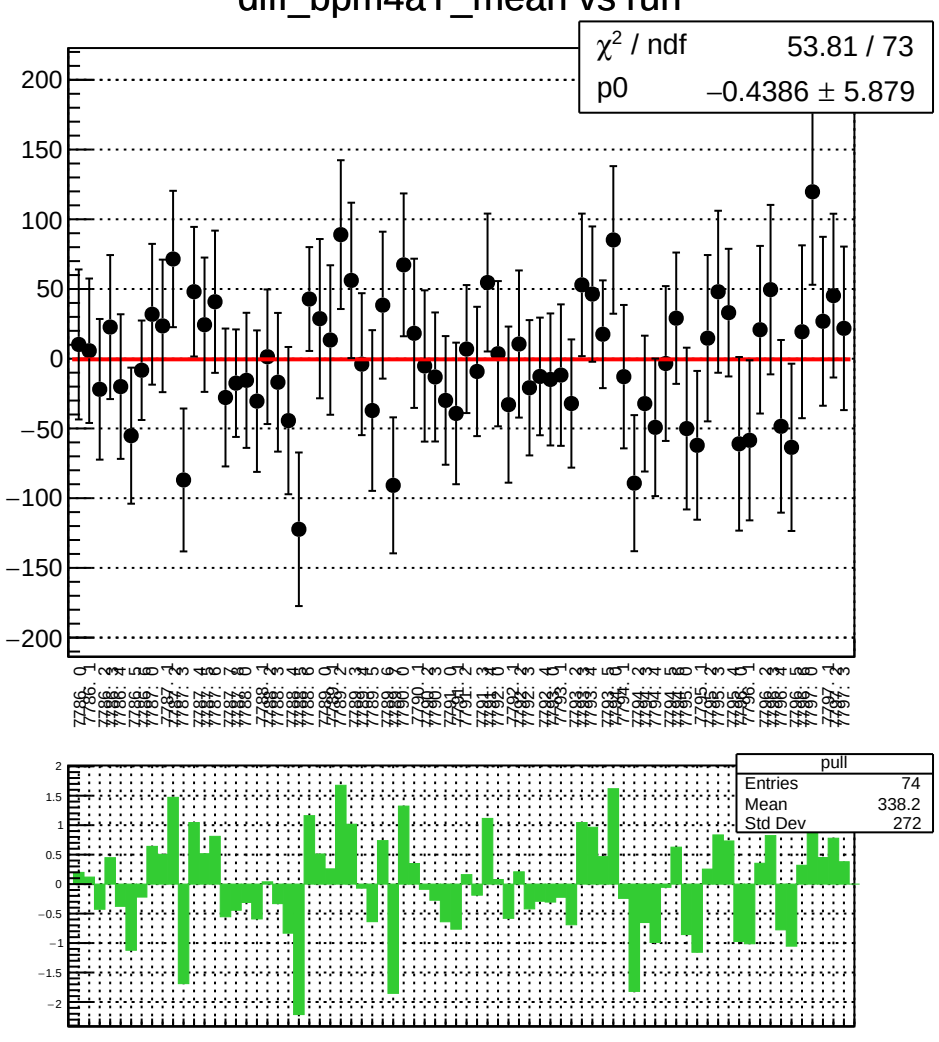
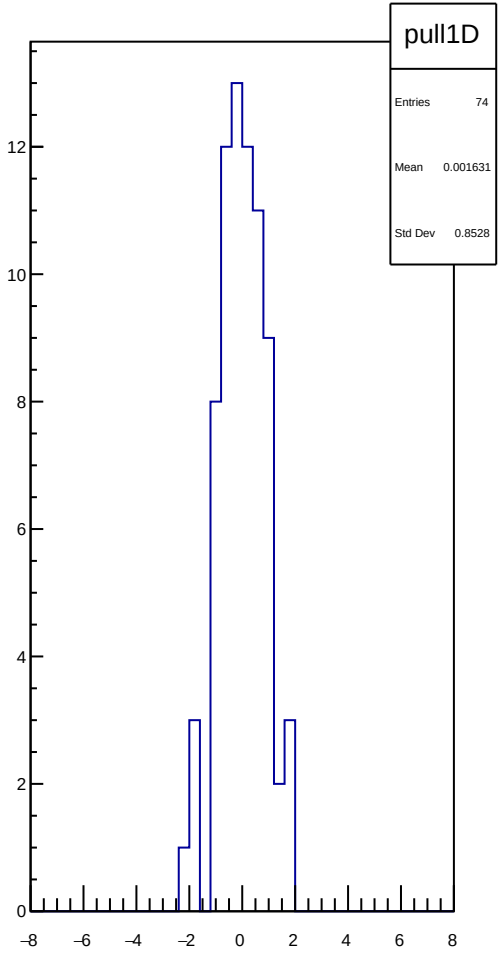
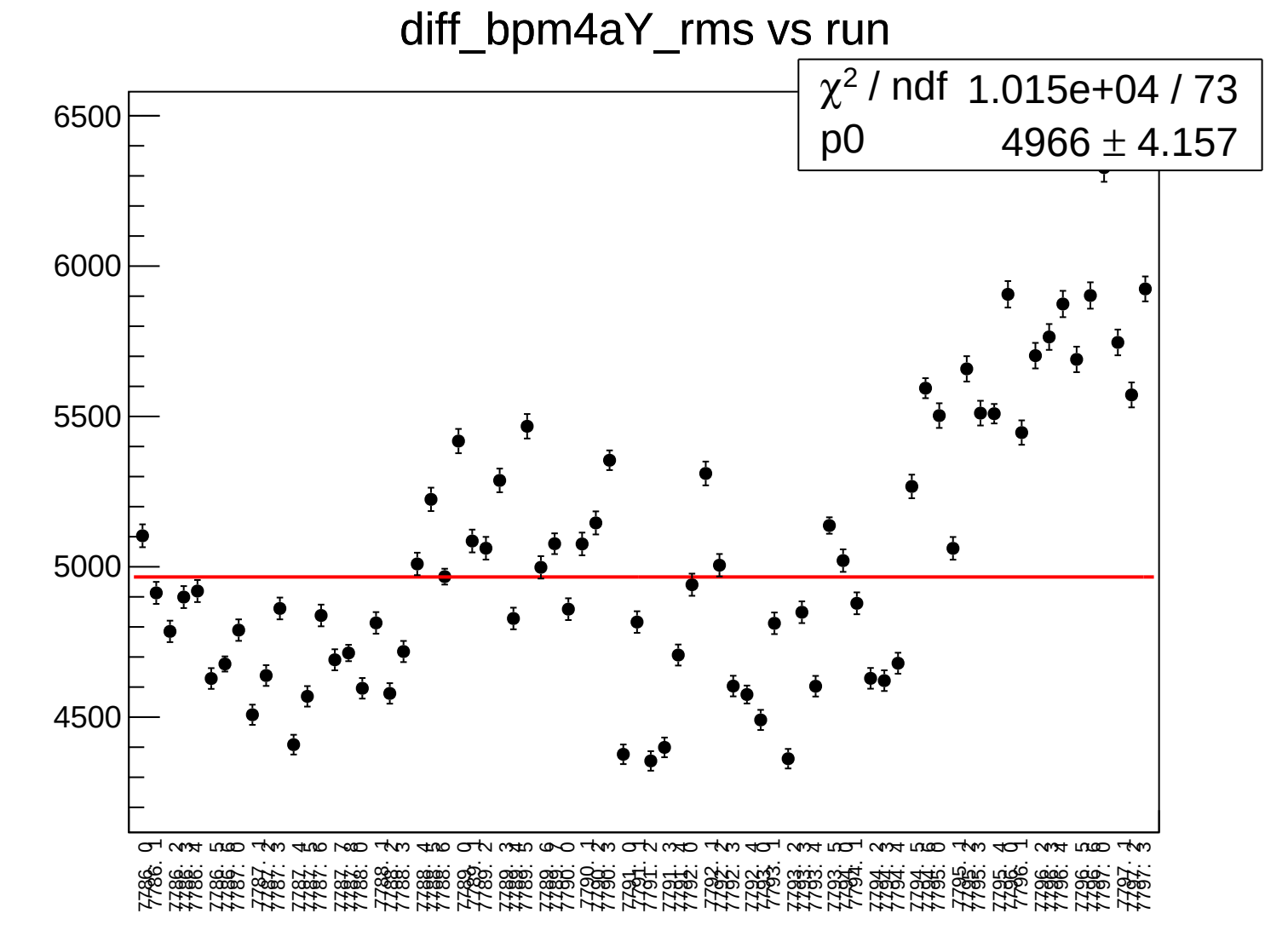

diff_bpm4aX_mean vs run
χ² / ndf 71.91 / 73
p0 −49.38 ± 29.65
pull
Entries 74
Mean 663
Std Dev 728

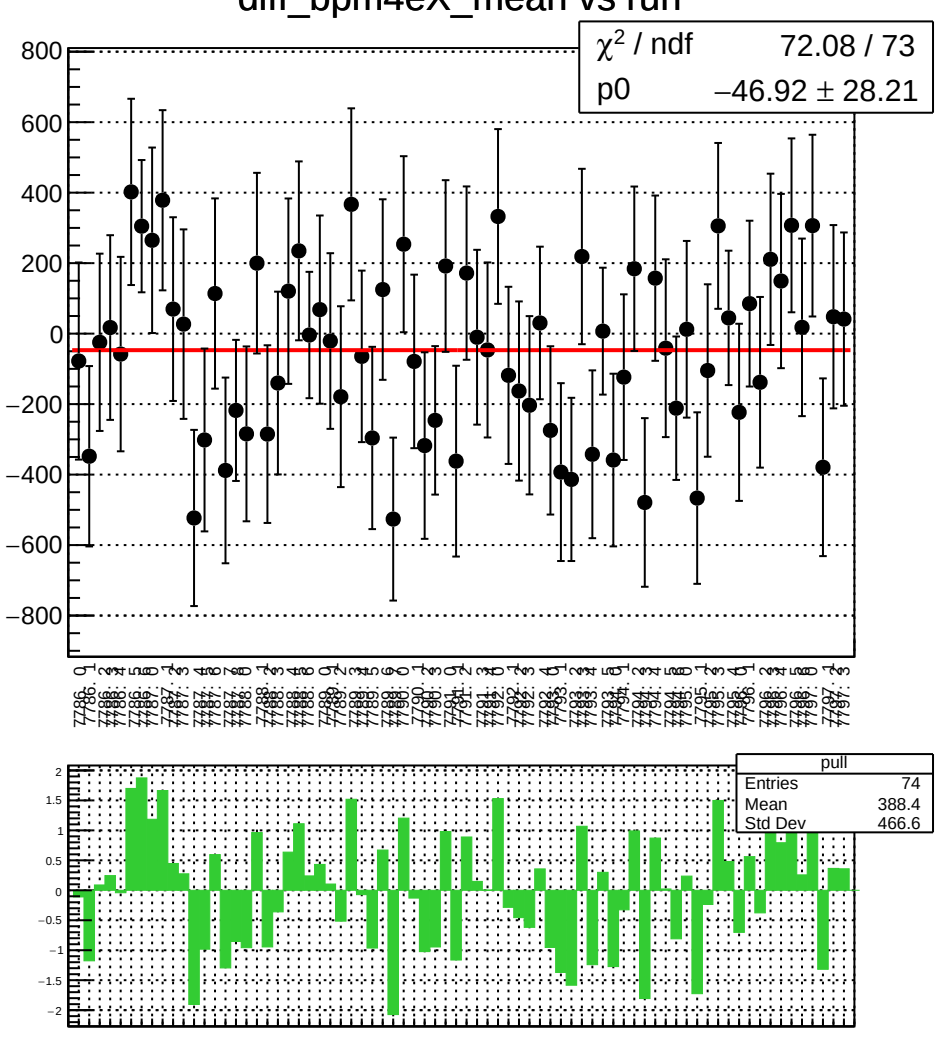

pull1D
Entries 74
Mean −0.0005682
Std Dev 0.9858

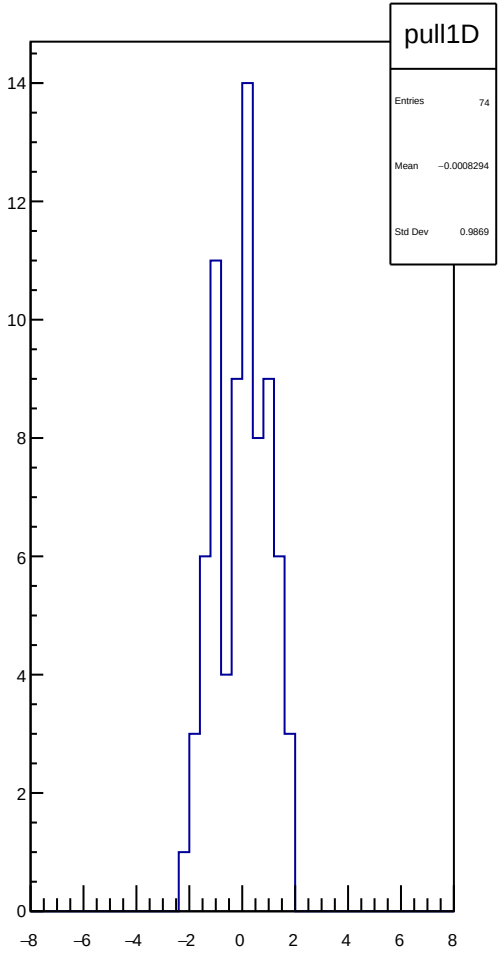

diff_bpm4aX_rms vs run
χ² / ndf 2231 / 73
p0 2.511e+04 ± 20.97
28000
27000
26000
25000
24000
23000

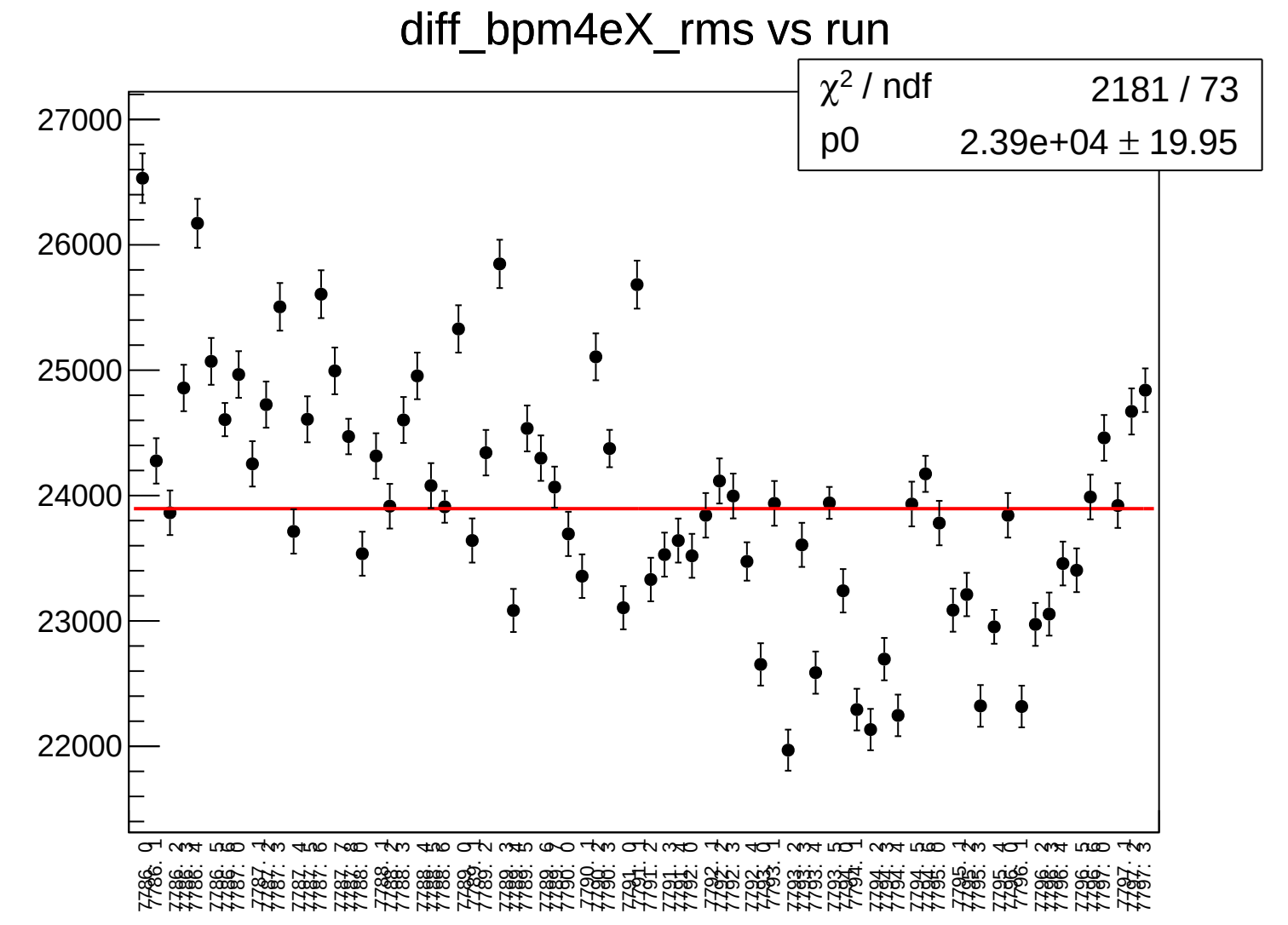

diff_bpm4aY_mean vs run
χ² / ndf 53.81 / 73
p0 −0.4386 ± 5.879
pull
Entries 74
Mean 338.2
Std Dev 272

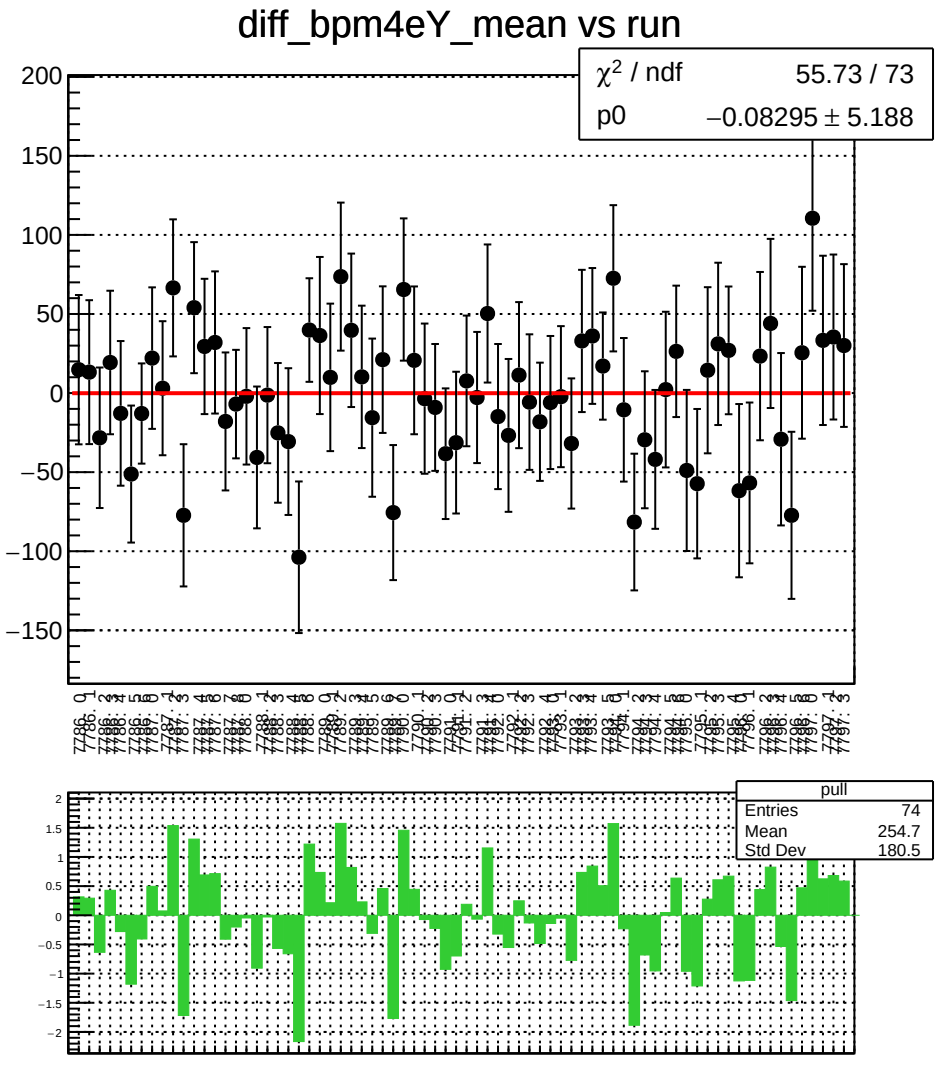

pull1D
Entries 74
Mean 0.001631
Std Dev 0.8528

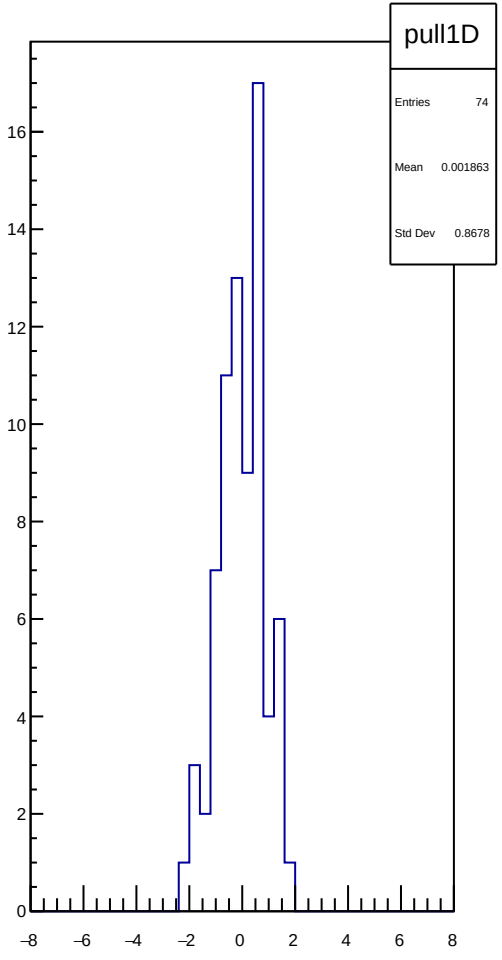

diff_bpm4aY_rms vs run
χ² / ndf 1.015e+04 / 73
p0 4966 ± 4.157
6500
6000
5500
5000
4500

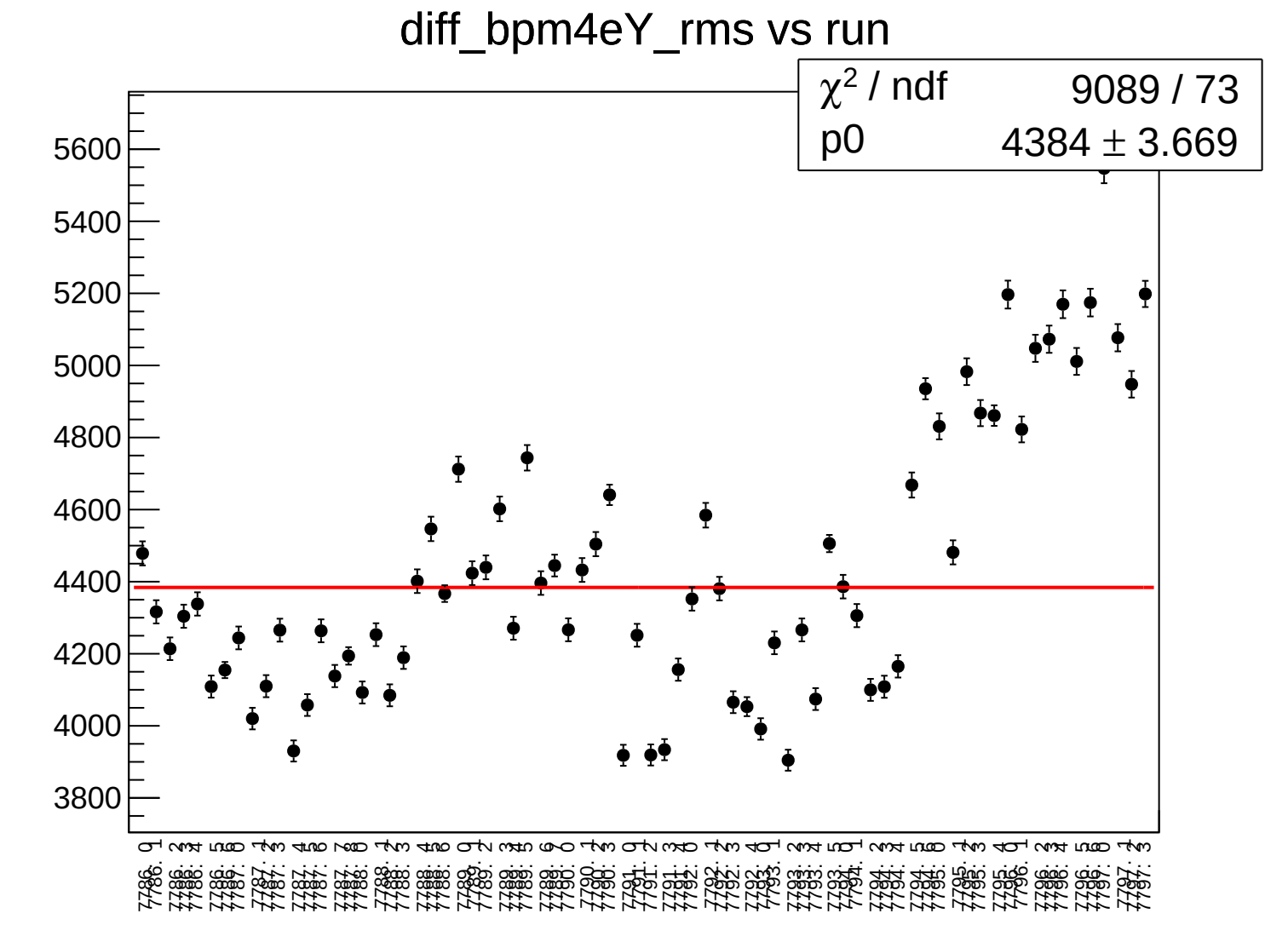

diff_bpm4eX_mean vs run
χ^2 / ndf 72.08 / 73
p0 −46.92 ± 28.21
pull
Entries 74
Mean 388.4
Std Dev 466.6

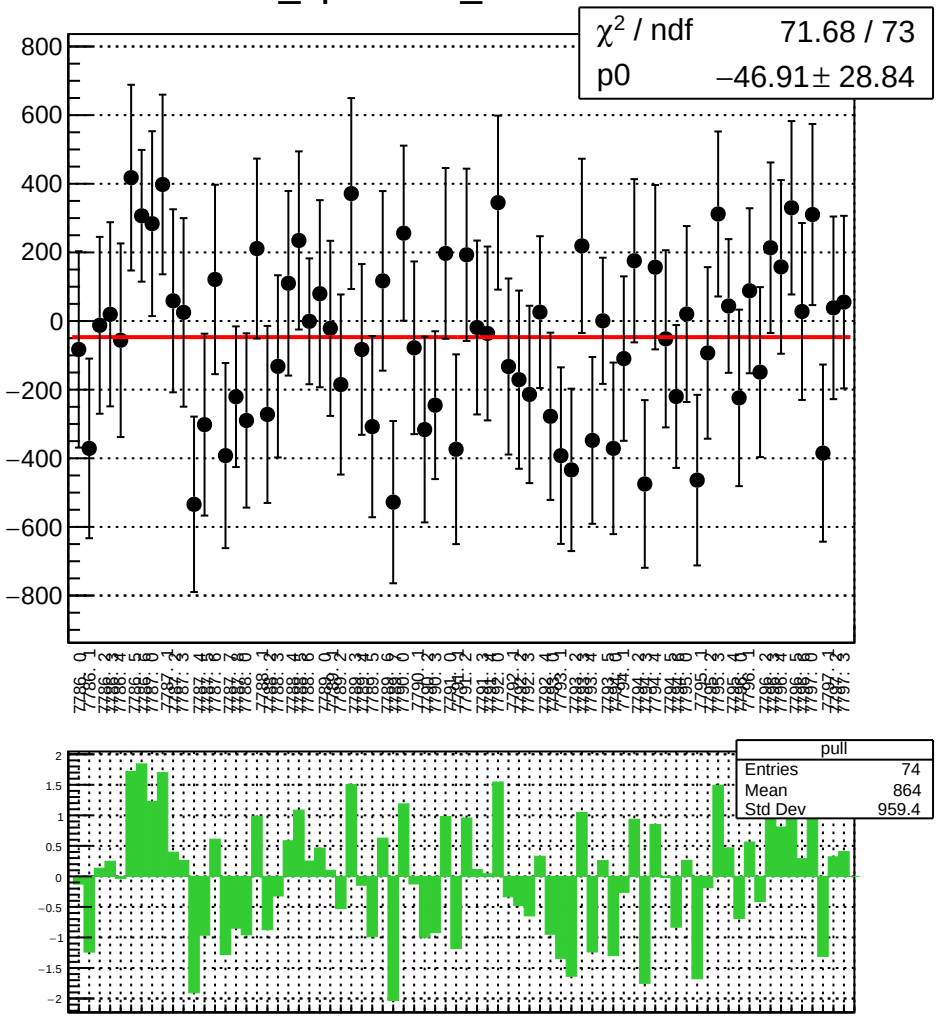

pull1D
Entries 74
Mean −0.0008294
Std Dev 0.9869

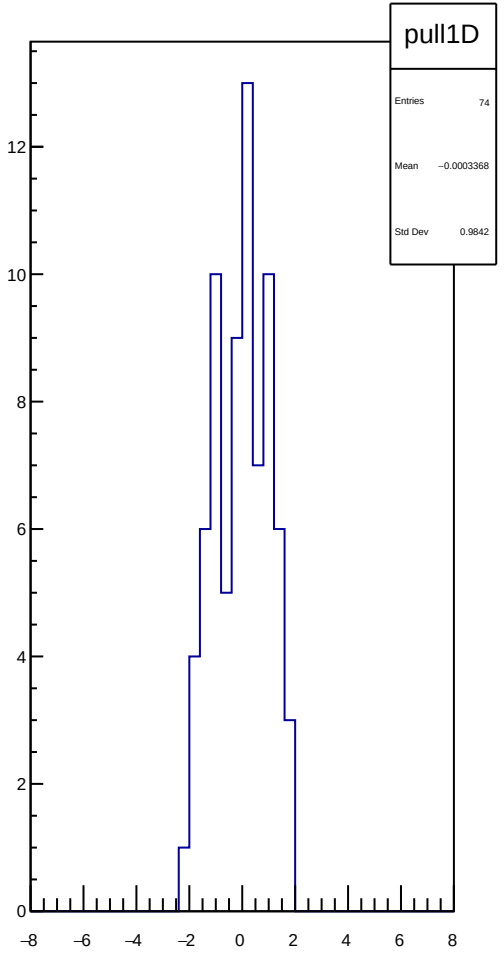

diff_bpm4eX_rms vs run
χ^2 / ndf 2181 / 73
p0 2.39e+04 ± 19.95
27000
26000
25000
24000
23000
22000

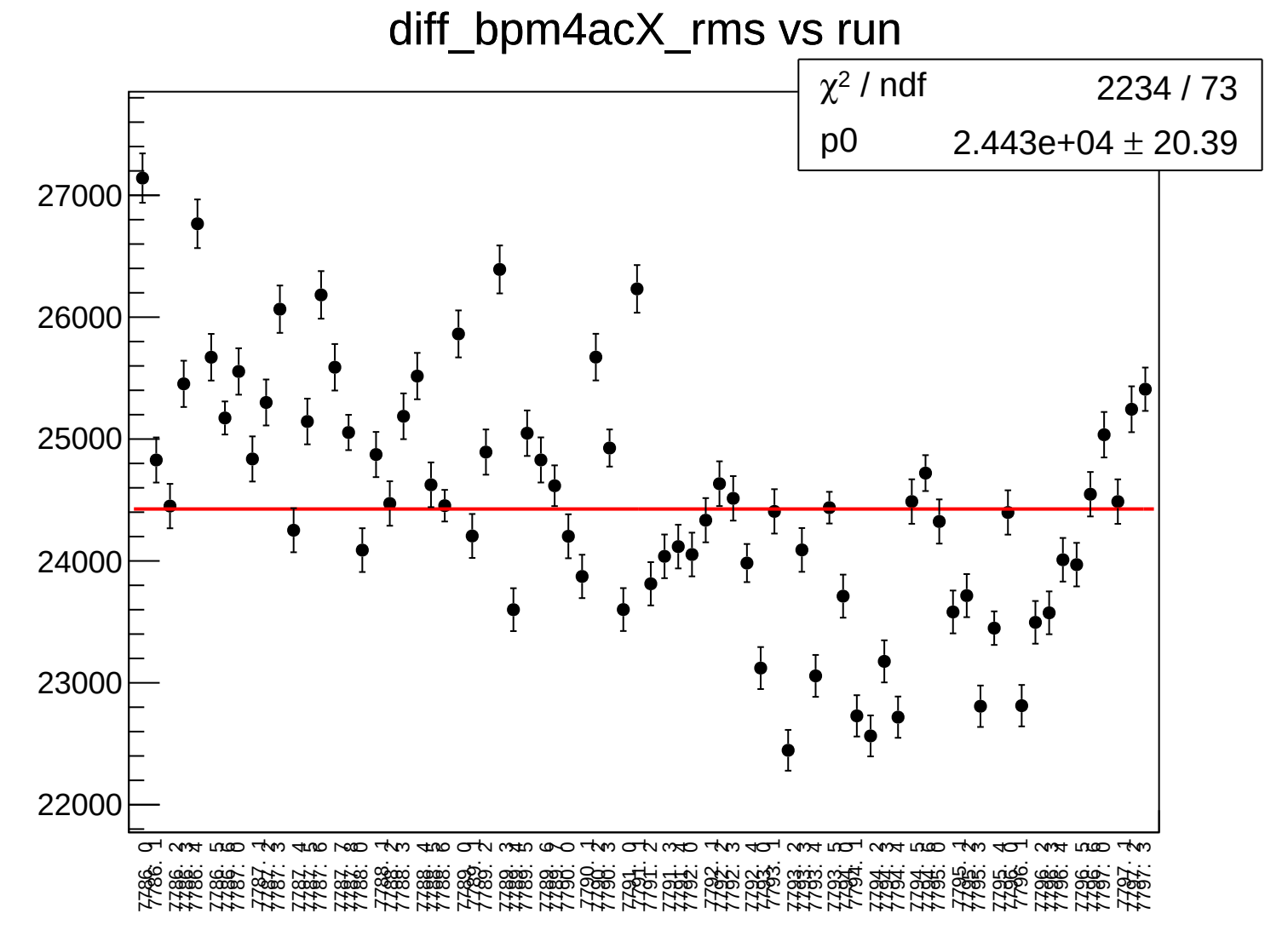

diff_bpm4eY_mean vs run
χ² / ndf 55.73 / 73
p0 −0.08295 ± 5.188
pull
Entries 74
Mean 254.7
Std Dev 180.5

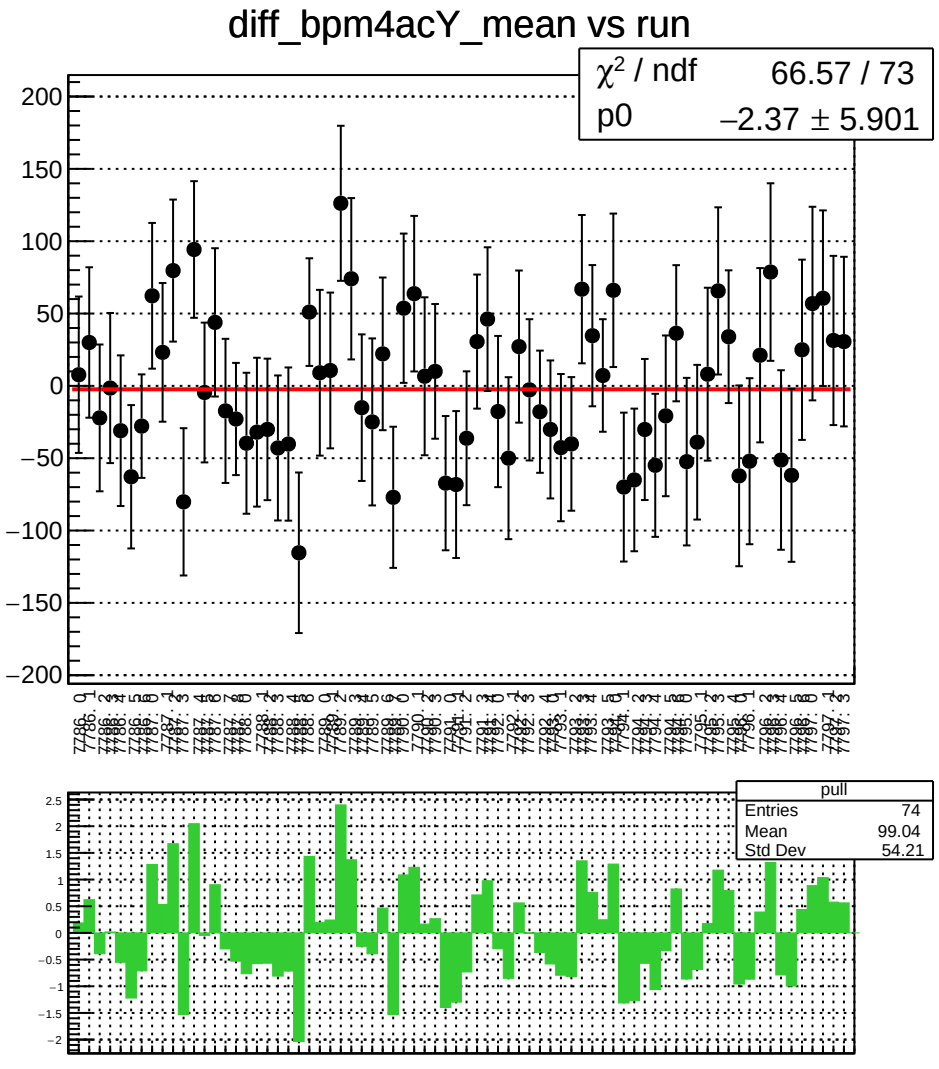

pull1D
Entries 74
Mean 0.001863
Std Dev 0.8678

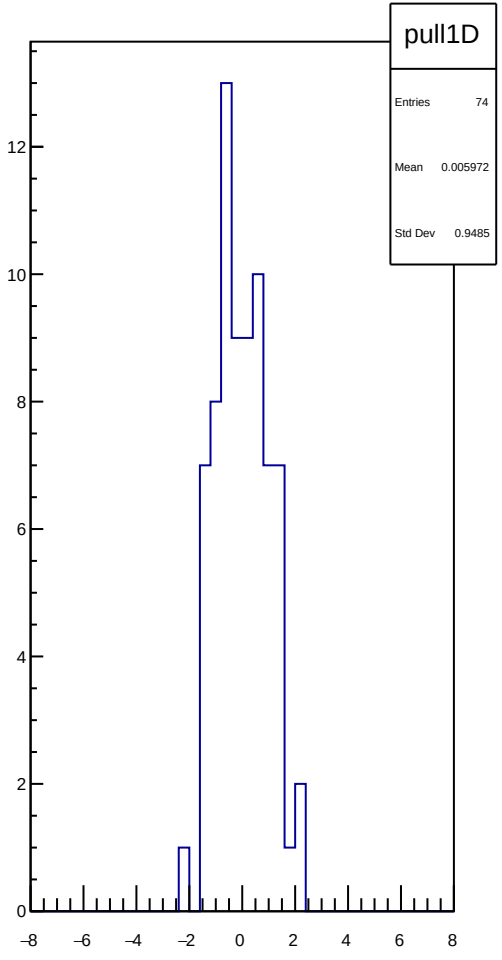

diff_bpm4eY_rms vs run
χ^2 / ndf 9089 / 73
p0 4384 ± 3.669
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

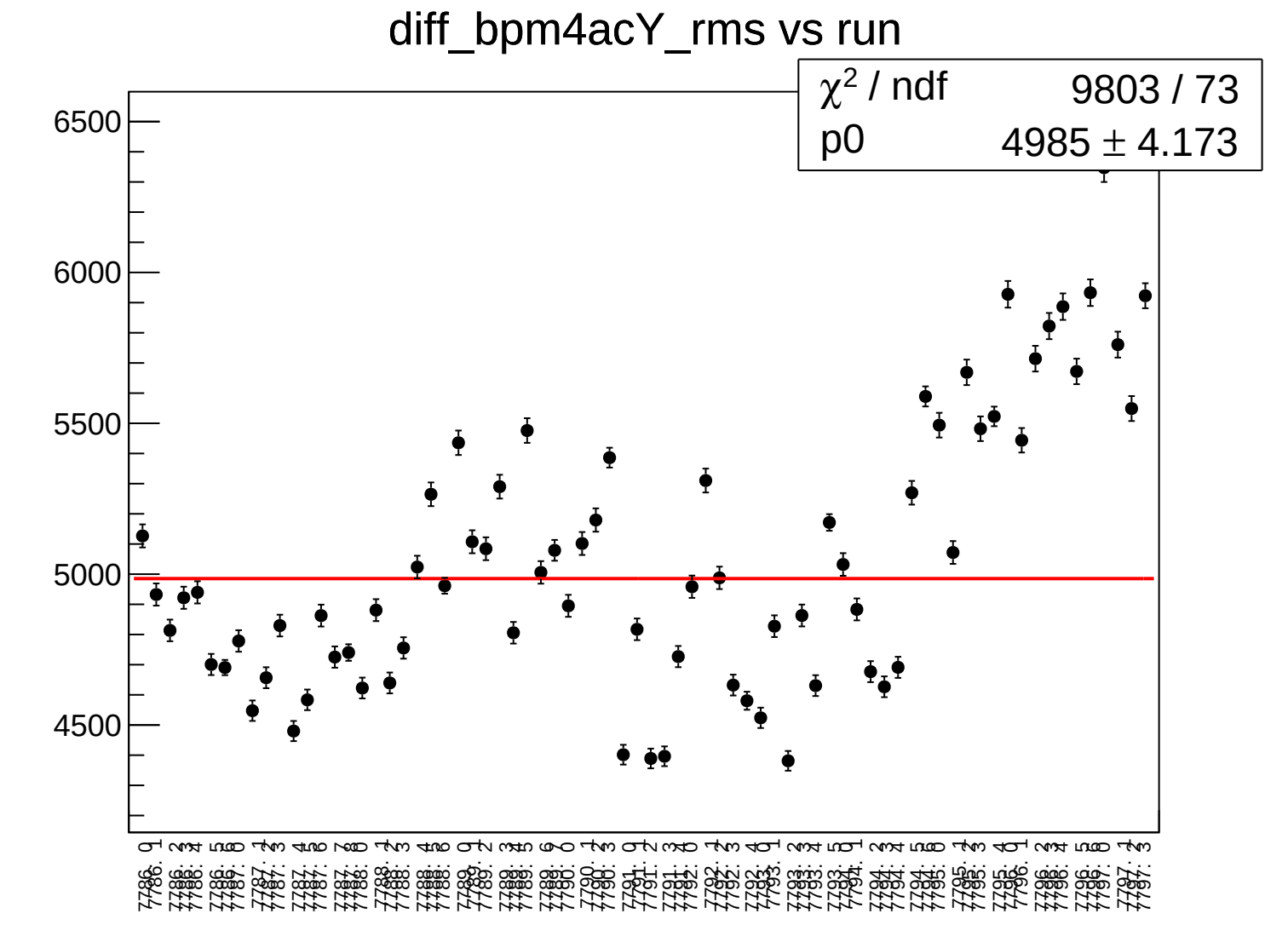

diff_bpm4acX_mean vs run
χ² / ndf 71.68 / 73
p0 −46.91 ± 28.84
pull
Entries 74
Mean 864
Std Dev 959.4

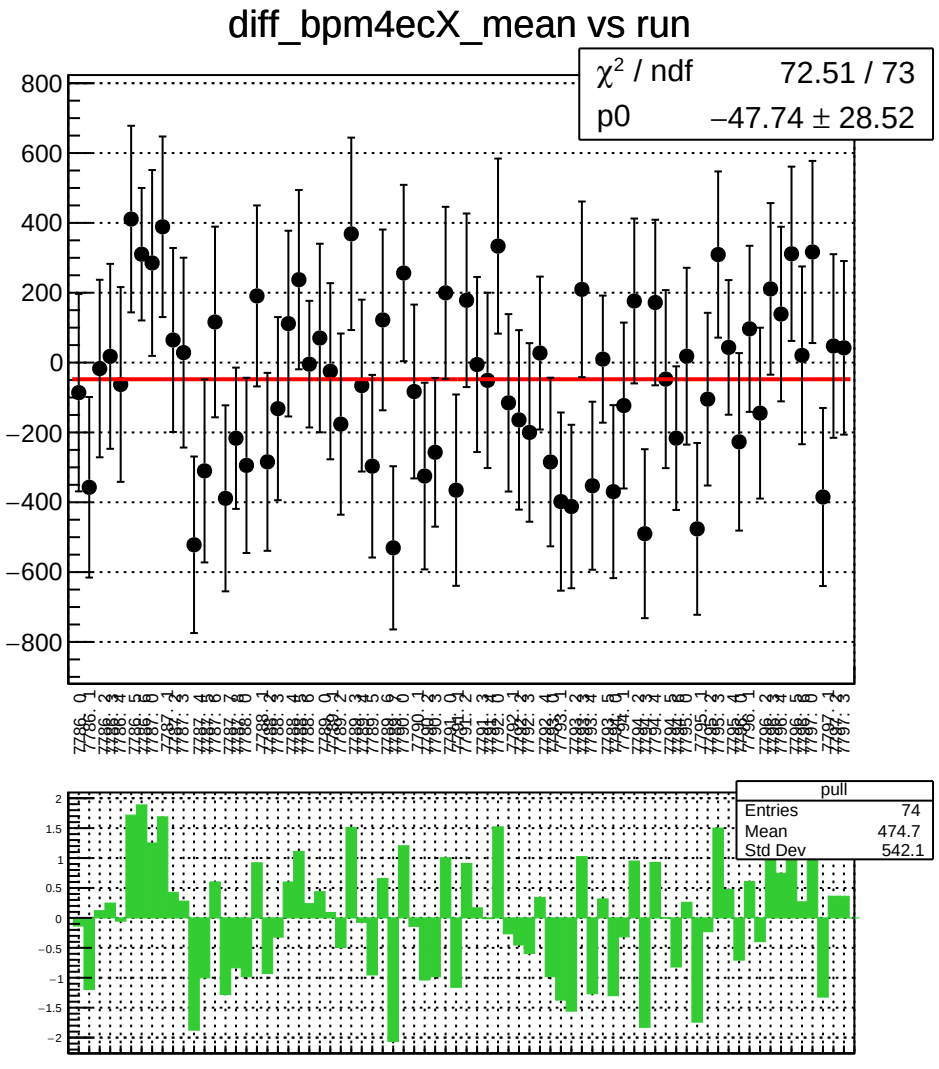

pull1D
Entries 74
Mean −0.0003368
Std Dev 0.9842

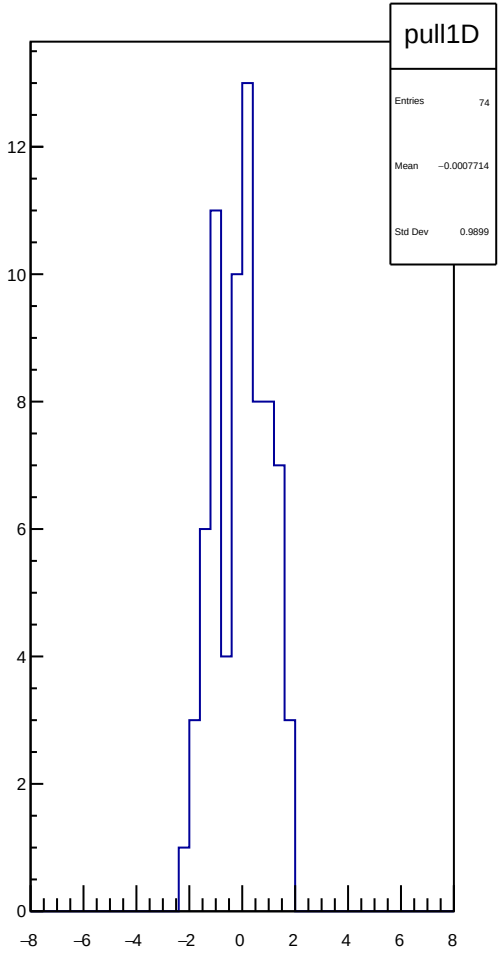

diff_bpm4acX_rms vs run
χ² / ndf 2234 / 73
p0 2.443e+04 ± 20.39
27000
26000
25000
24000
23000
22000

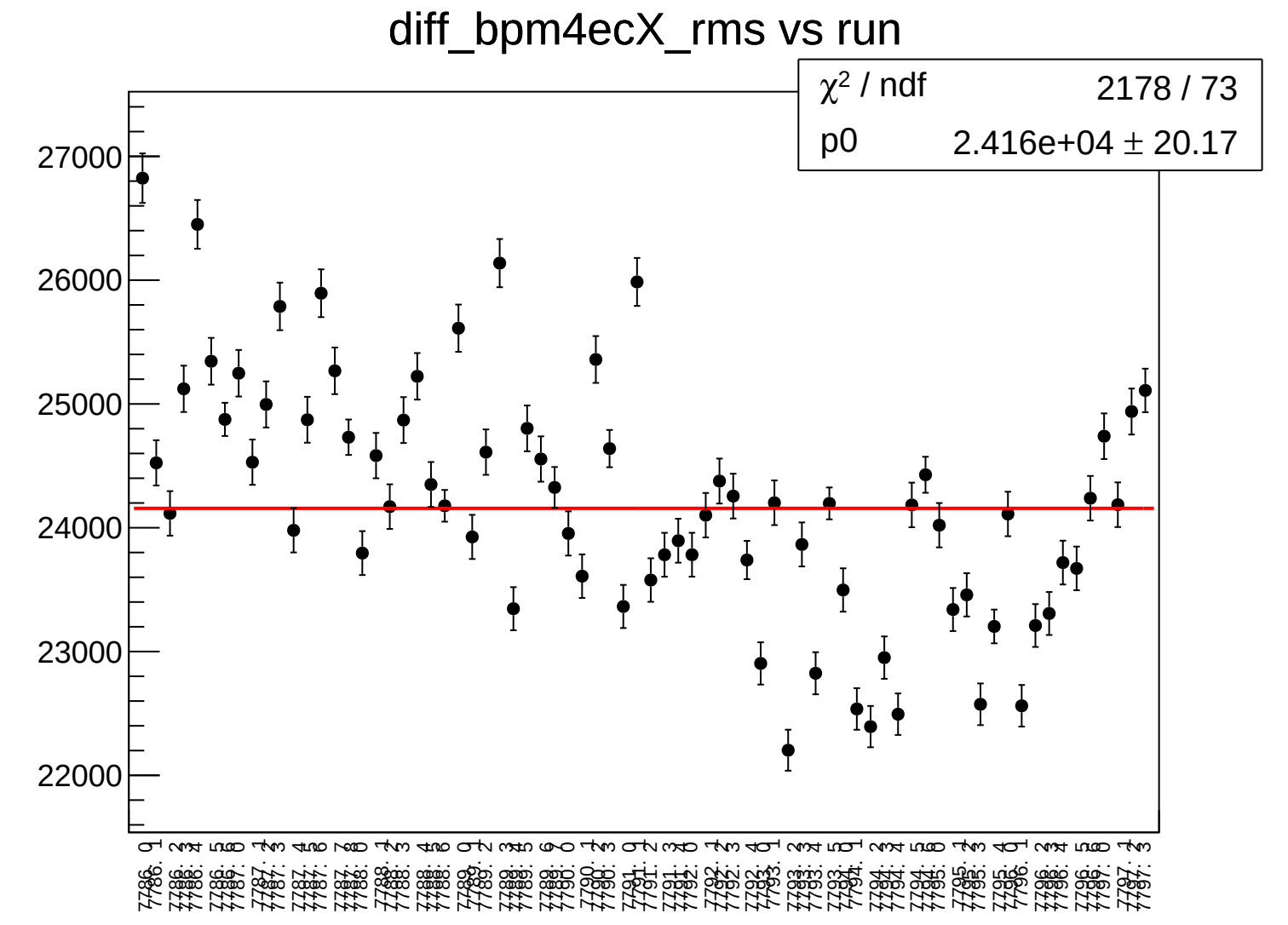

diff_bpm4acY_mean vs run
χ² / ndf 66.57 / 73
p0 −2.37 ± 5.901
pull
Entries 74
Mean 99.04
Std Dev 54.21

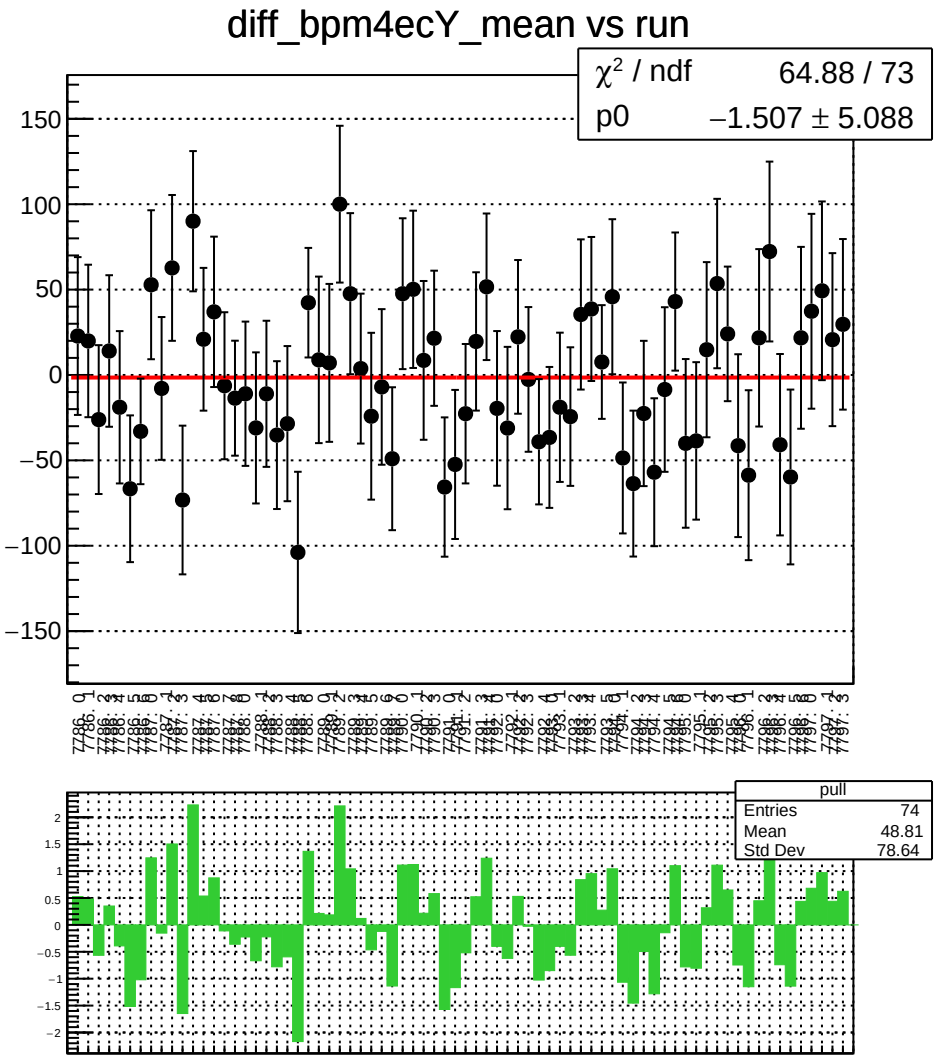

pull1D
Entries 74
Mean 0.005972
Std Dev 0.9485

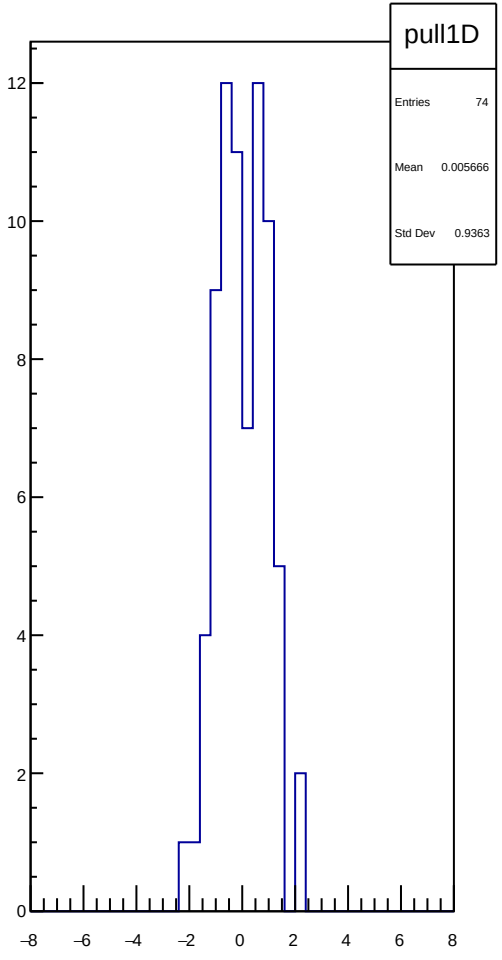

diff_bpm4acY_rms vs run
χ^2 / ndf 9803 / 73
p0 4985 ± 4.173
6500
6000
5500
5000
4500

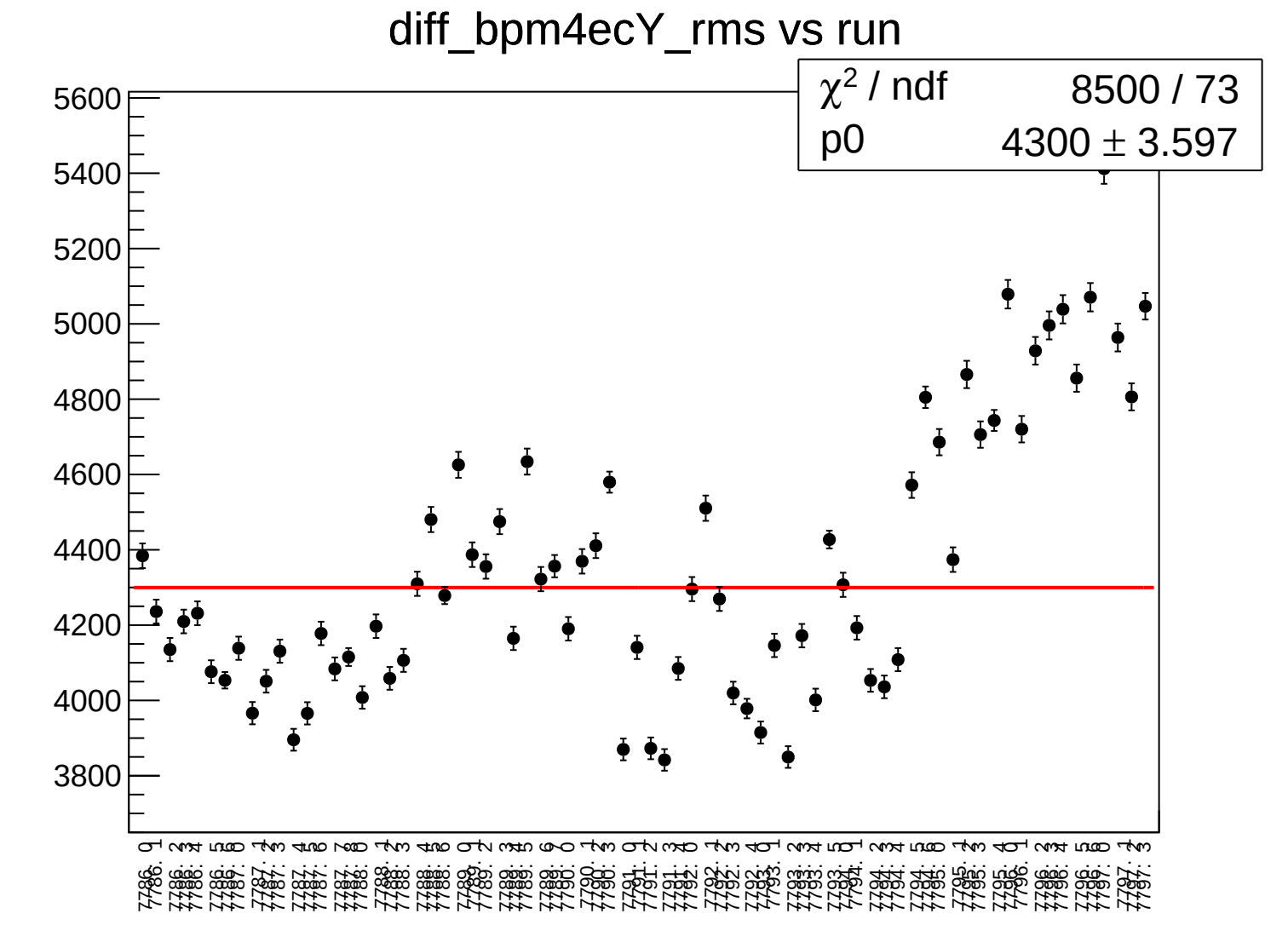

diff_bpm4ecX_mean vs run
χ² / ndf 72.51 / 73
p0 −47.74 ± 28.52
pull
Entries 74
Mean 474.7
Std Dev 542.1

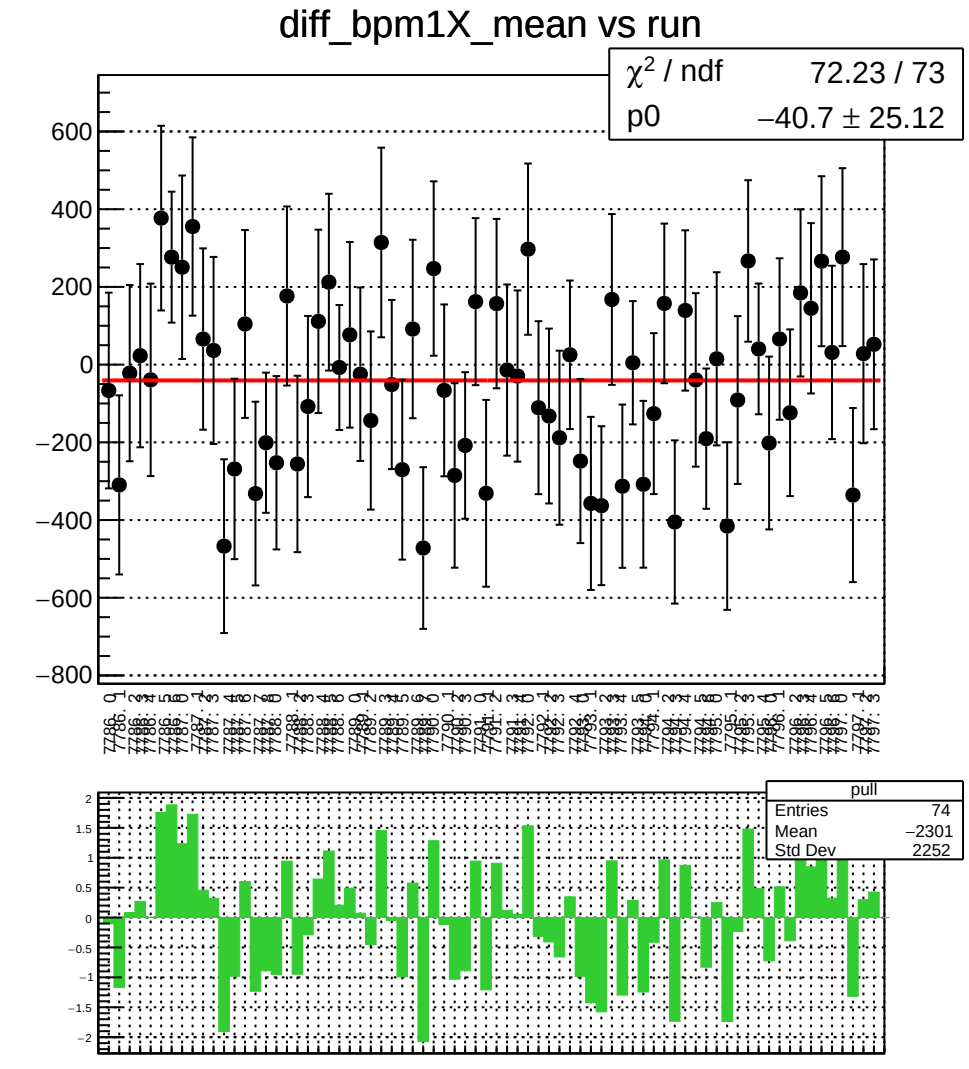

pull1D
Entries 74
Mean −0.0007714
Std Dev 0.9899

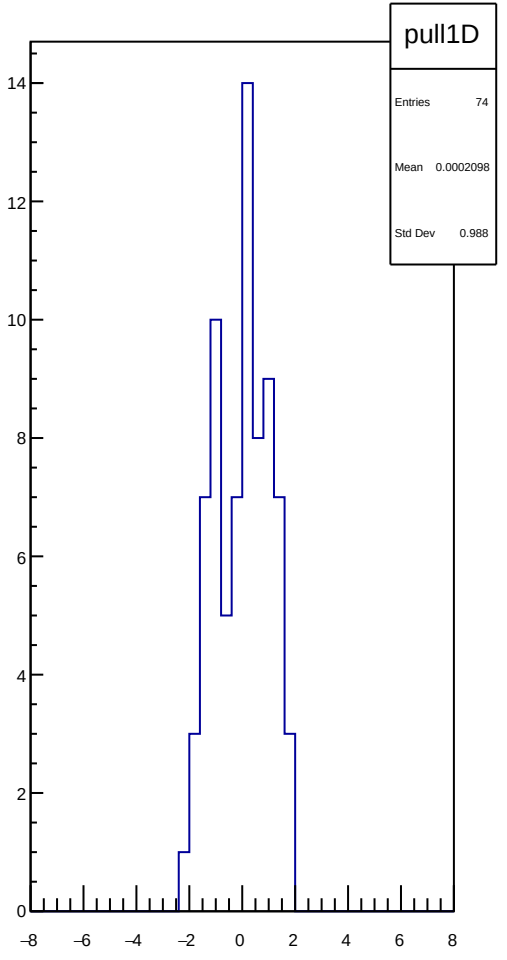

diff_bpm4ecX_rms vs run
χ² / ndf 2178 / 73
p0 2.416e+04 ± 20.17
27000
26000
25000
24000
23000
22000

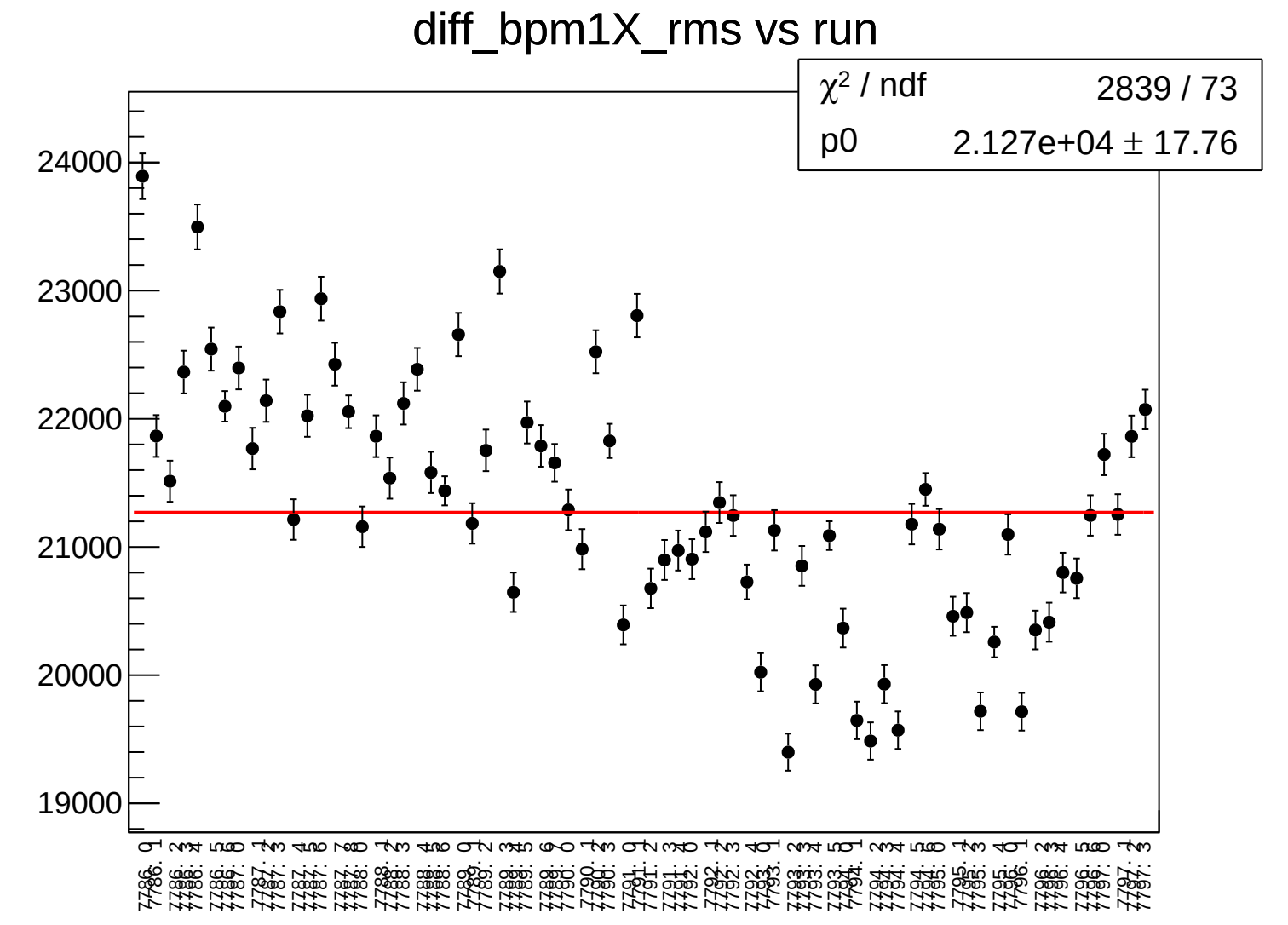

diff_bpm4ecY_mean vs run
χ² / ndf 64.88 / 73
p0 −1.507 ± 5.088
150
100
50
0
−50
−100
−150
pull
Entries 74
Mean 48.81
Std Dev 78.64
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

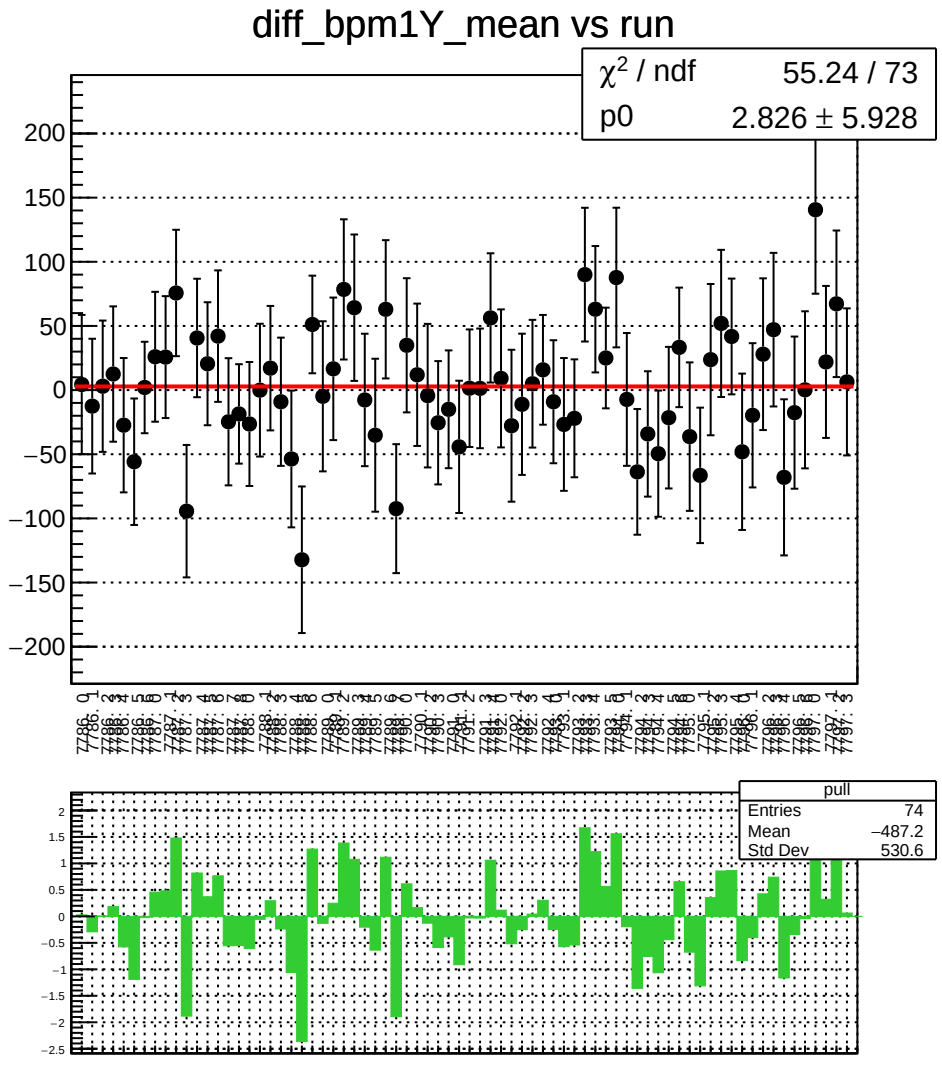

pull1D
Entries 74
Mean 0.005666
Std Dev 0.9363
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

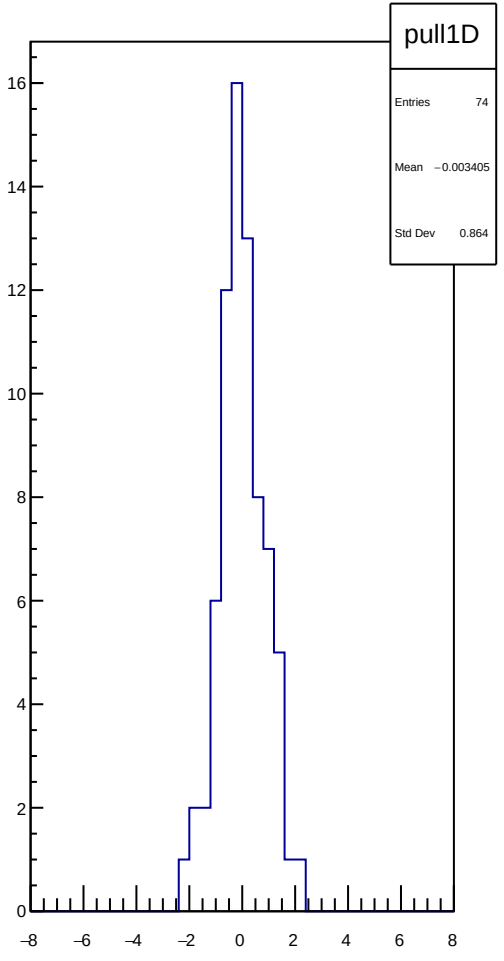

diff_bpm4ecY_rms vs run
χ^2 / ndf 8500 / 73
p0 4300 ± 3.597
5600
5400
5200
5000
4800
4600
4400
4200
4000
3800

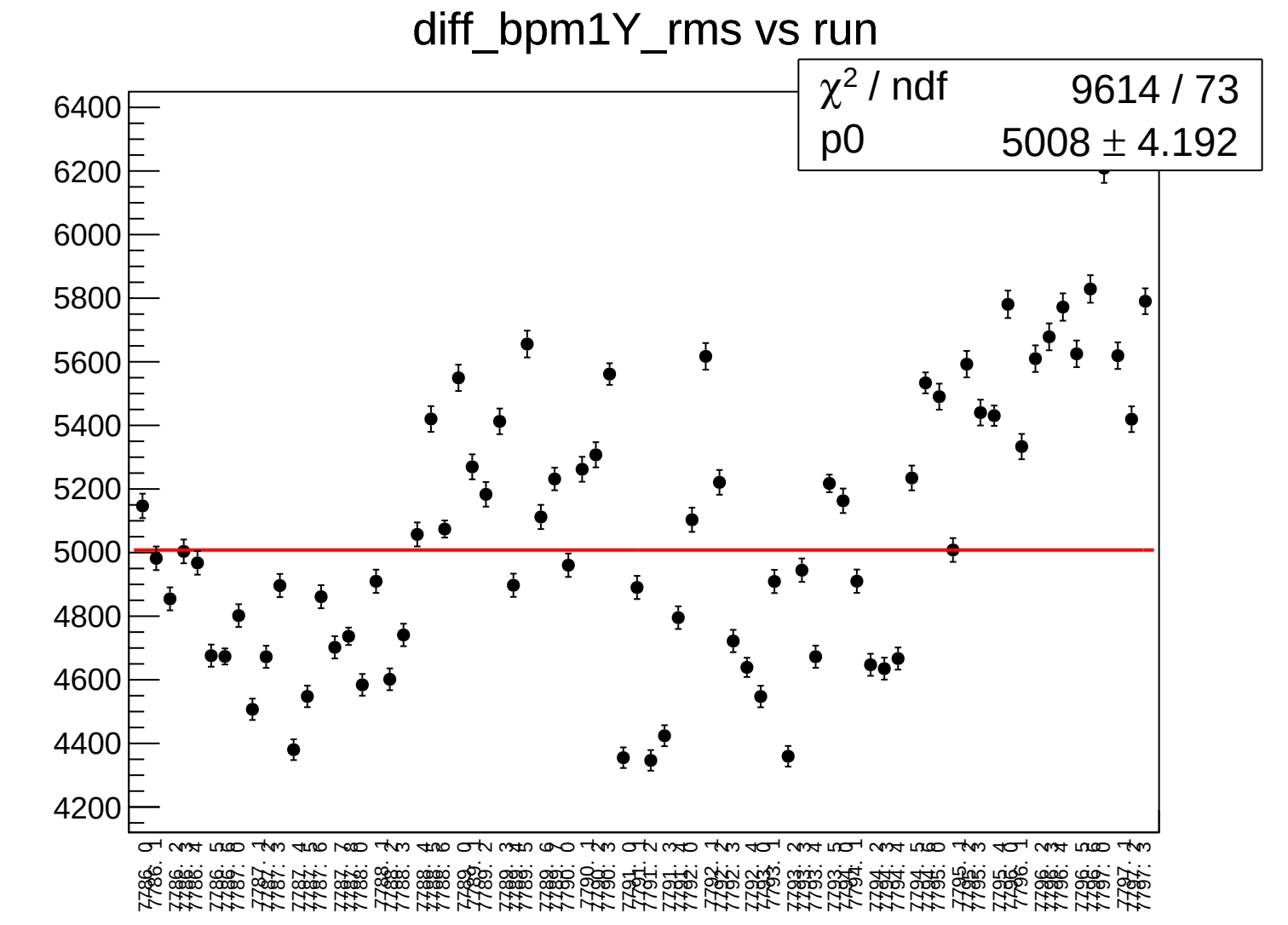

diff_bpm1X_mean vs run
χ² / ndf 72.23 / 73
p0 −40.7 ± 25.12
pull
Entries 74
Mean −2301
Std Dev 2252

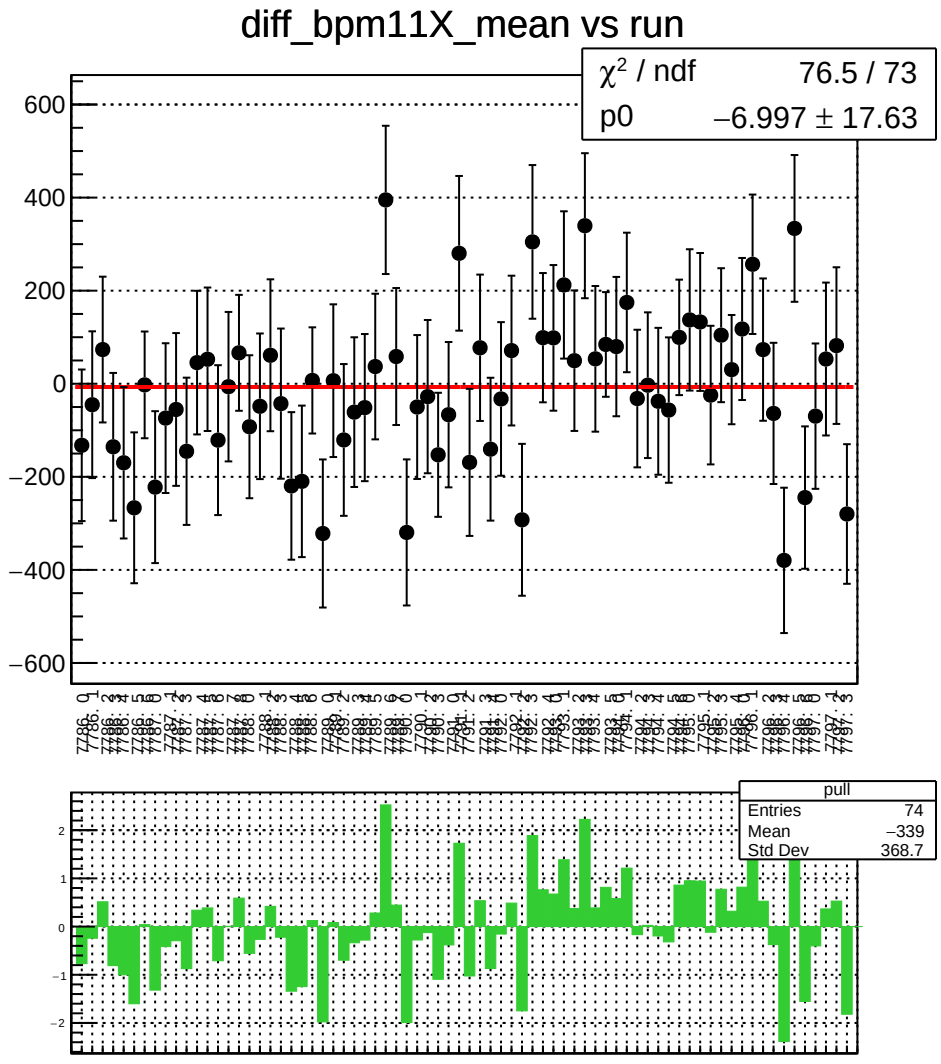

pull1D
Entries 74
Mean 0.0002098
Std Dev 0.988

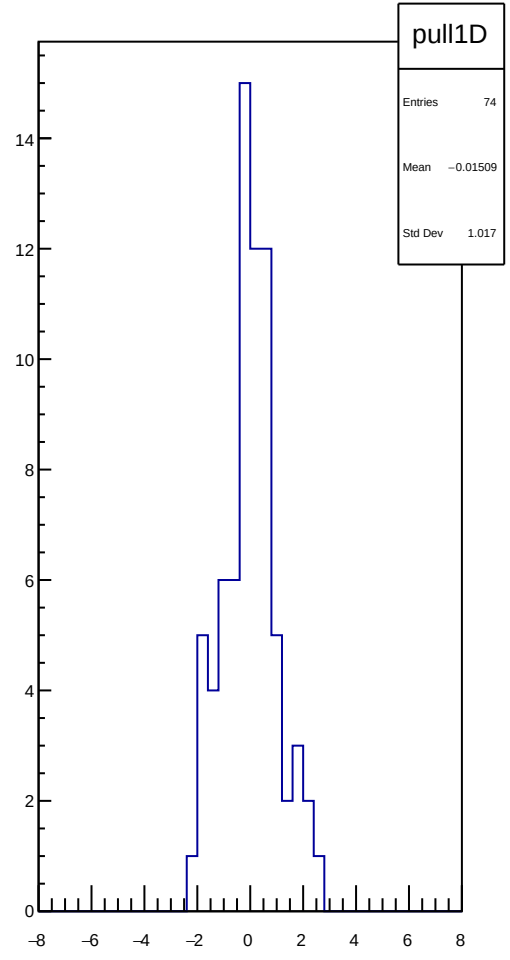

diff_bpm1X_rms vs run
χ² / ndf 2839 / 73
p0 2.127e+04 ± 17.76
24000
23000
22000
21000
20000
19000

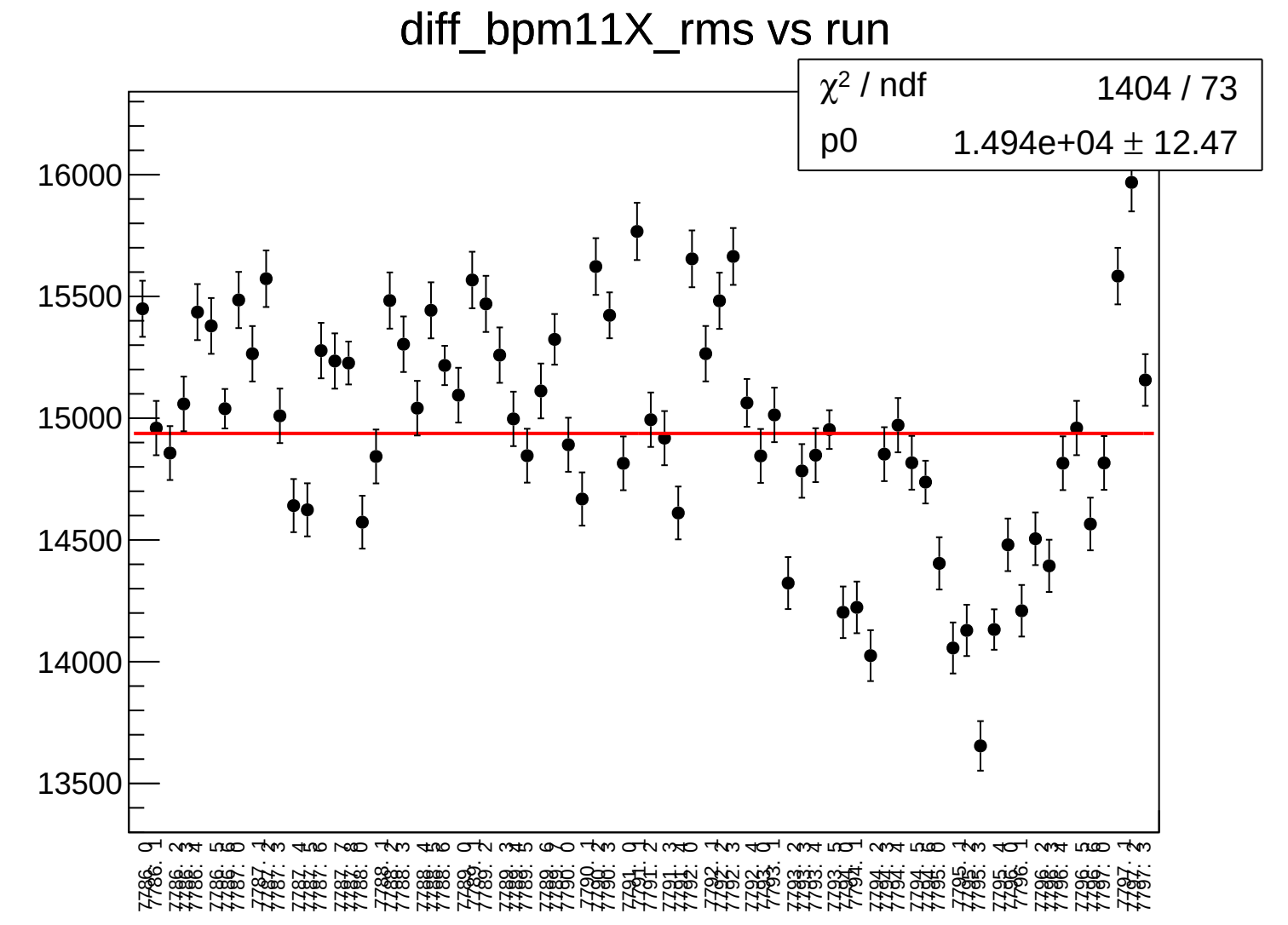

diff_bpm1Y_mean vs run
χ² / ndf 55.24 / 73
p0 2.826 ± 5.928
pull
Entries 74
Mean −487.2
Std Dev 530.6

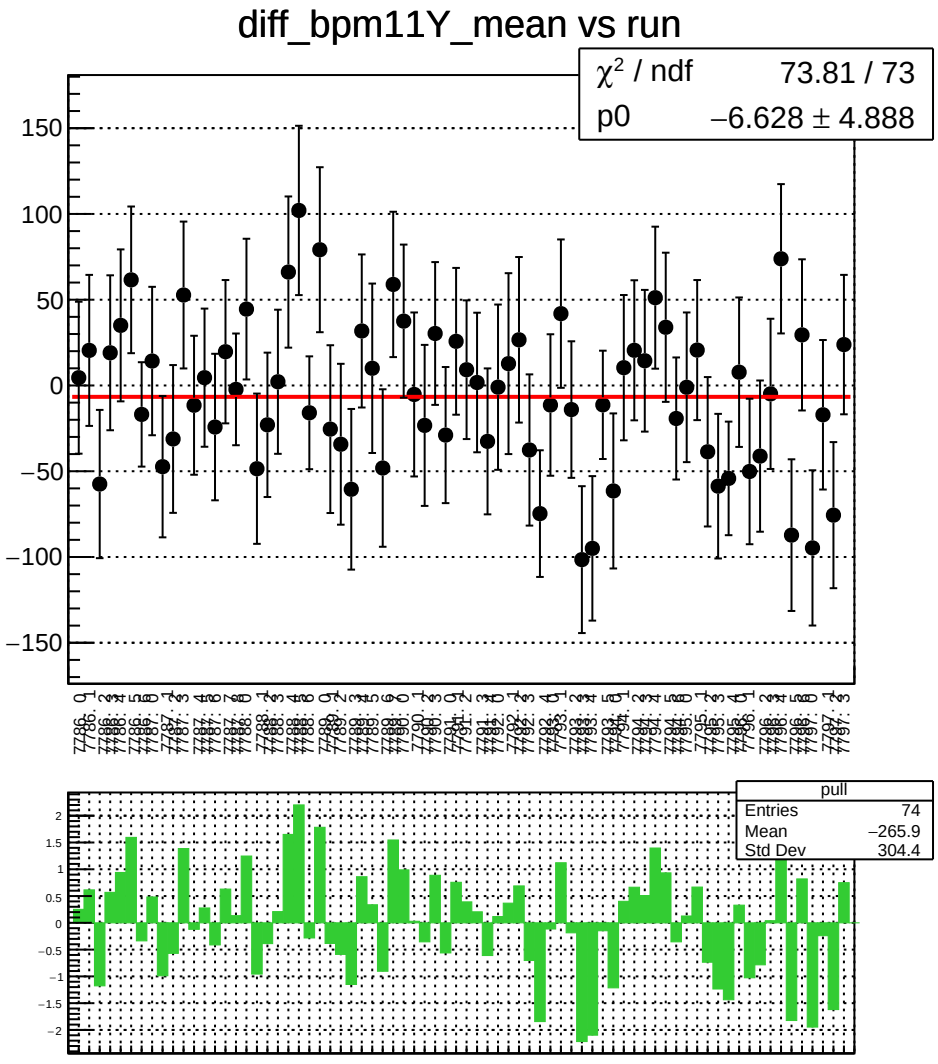

pull1D
Entries 74
Mean −0.003405
Std Dev 0.864

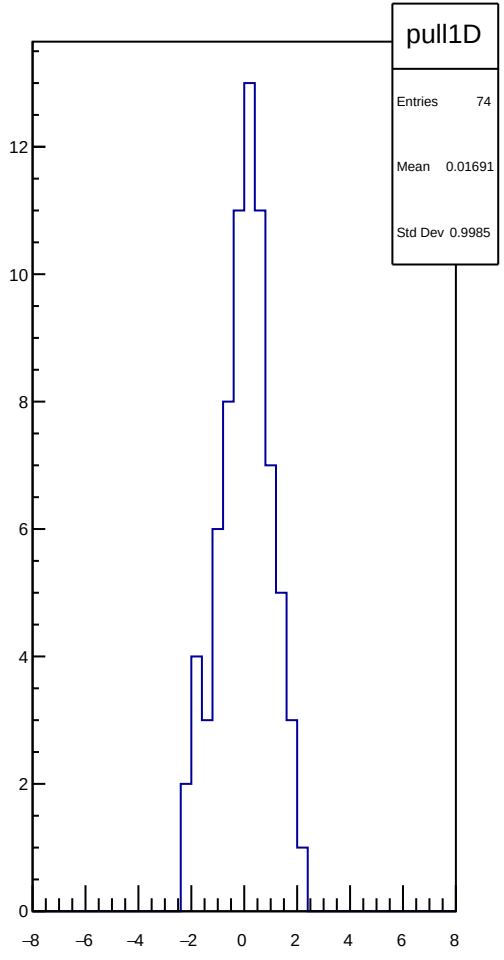

diff_bpm1Y_rms vs run
χ² / ndf 9614 / 73
p0 5008 ± 4.192
6400
6200
6000
5800
5600
5400
5200
5000
4800
4600
4400
4200

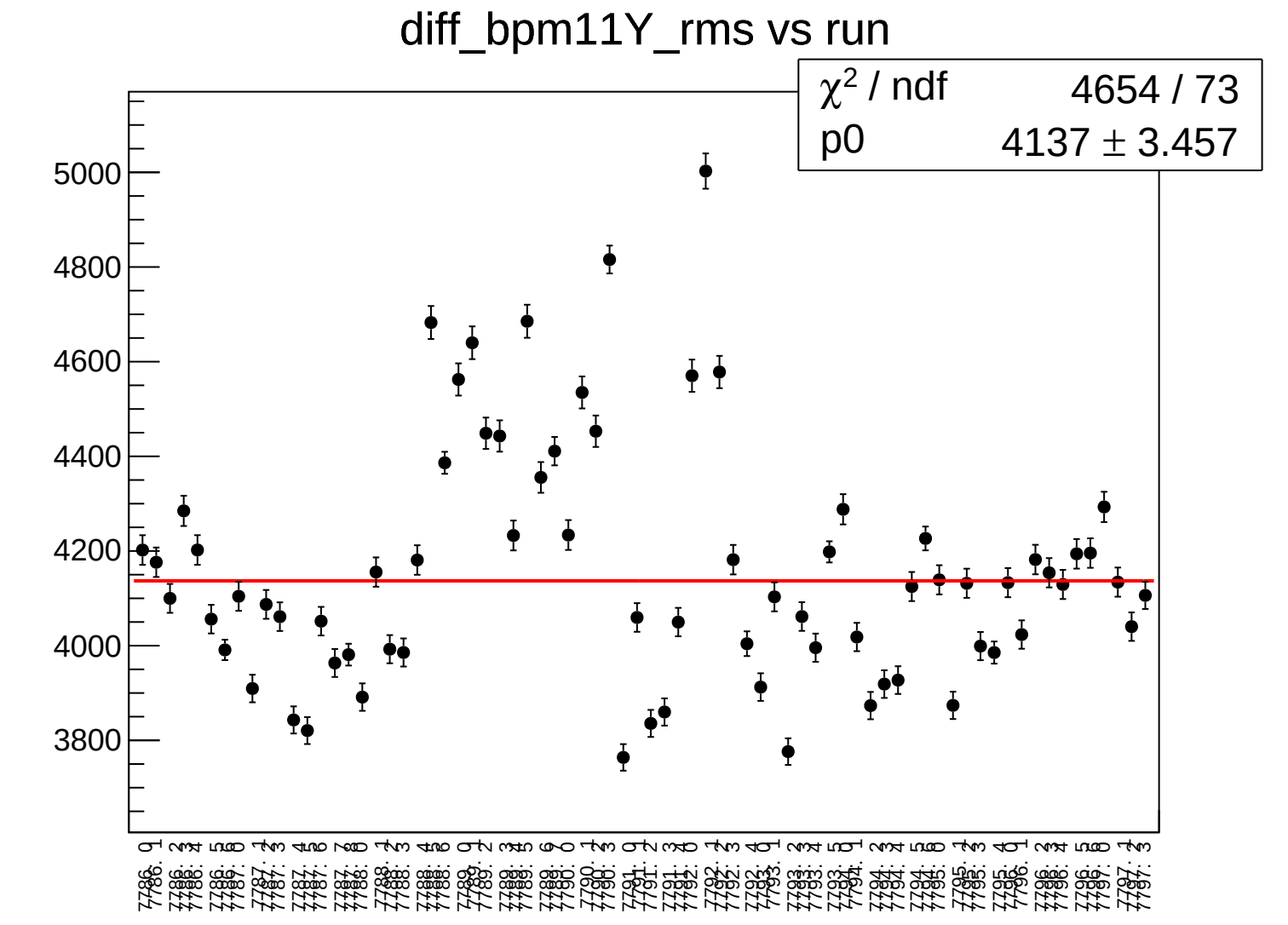

diff_bpm11X_mean vs run
χ² / ndf 76.5 / 73
p0 −6.997 ± 17.63
pull
Entries 74
Mean −339
Std Dev 368.7

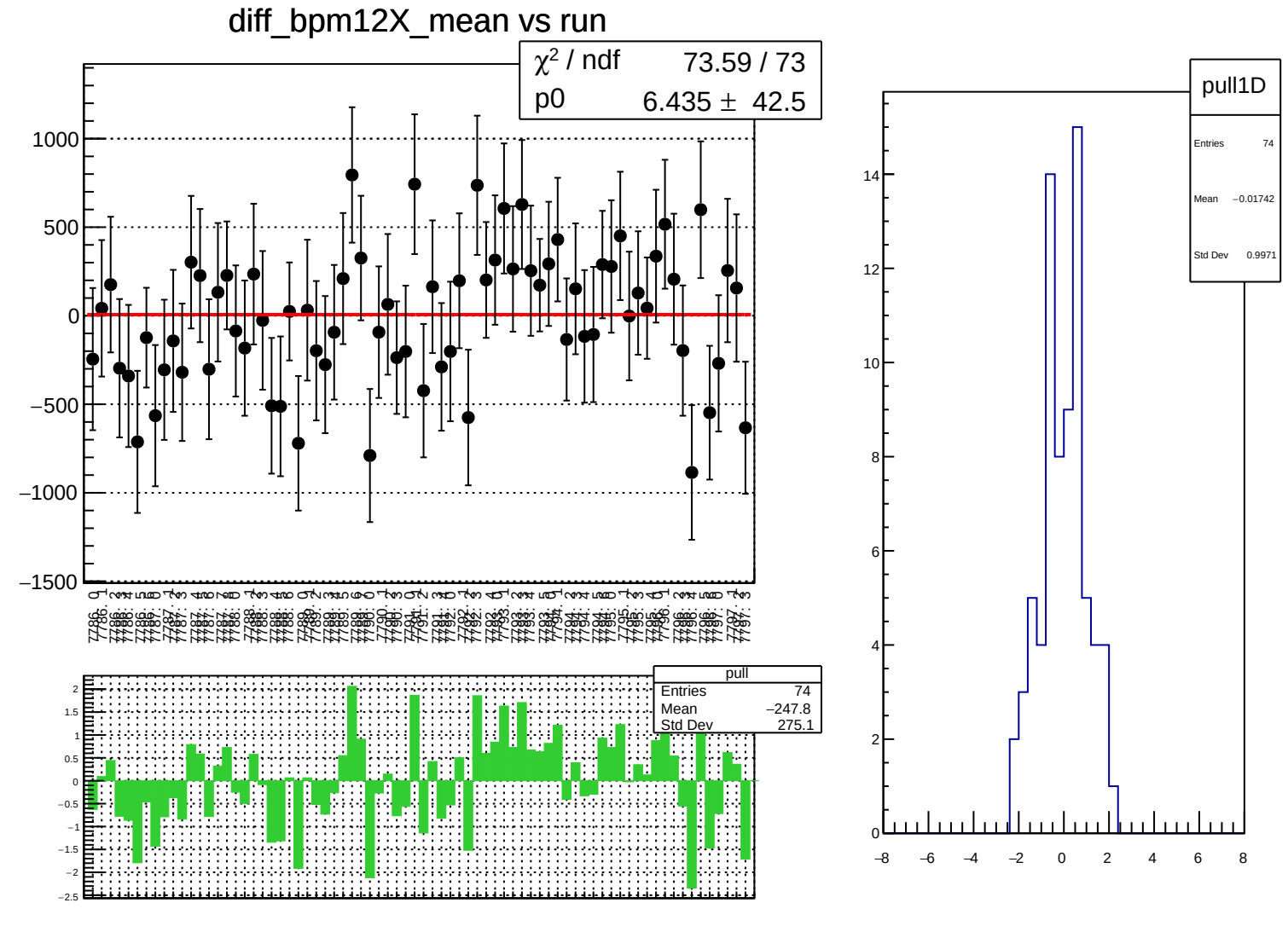

pull1D
Entries 74
Mean −0.01509
Std Dev 1.017

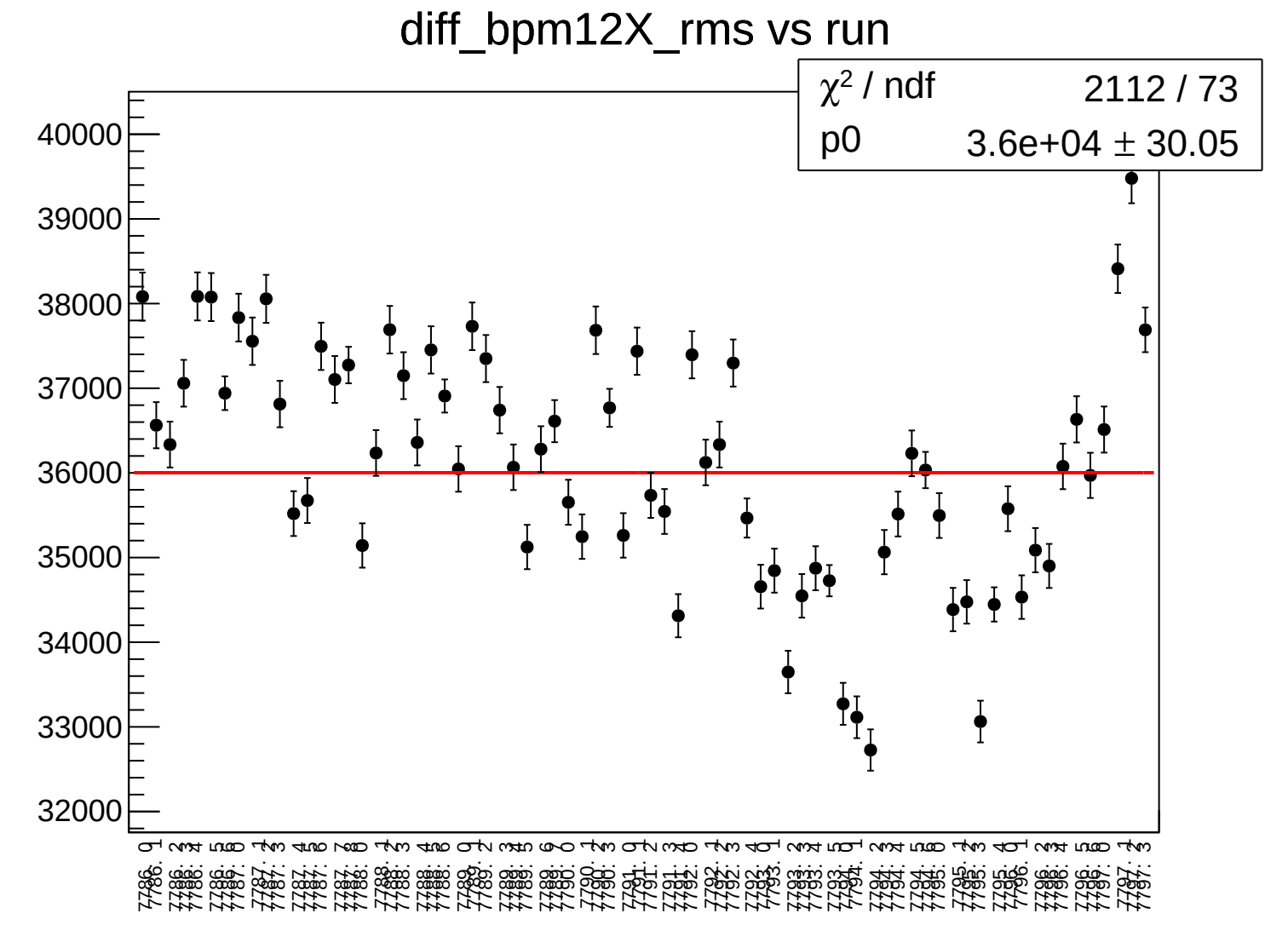

diff_bpm11X_rms vs run
χ² / ndf 1404 / 73
p0 1.494e+04 ± 12.47
16000
15500
15000
14500
14000
13500

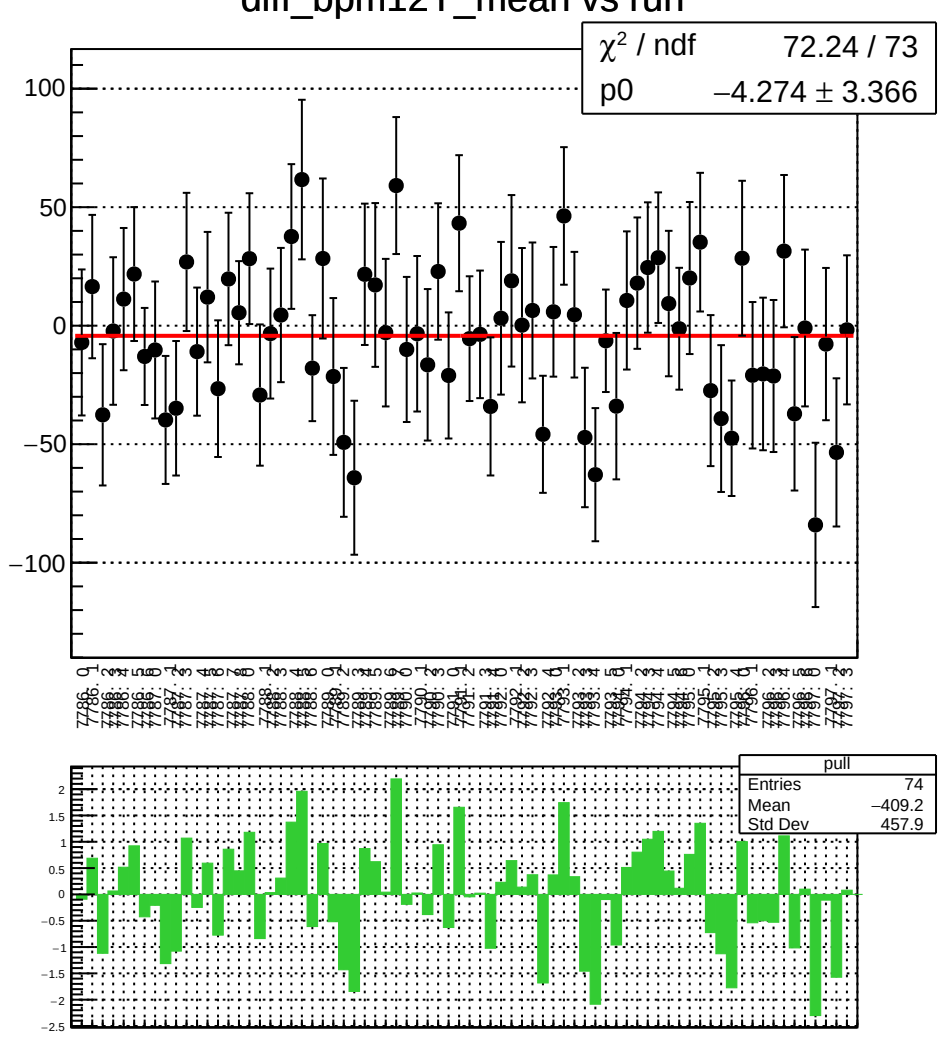

diff_bpm11Y_mean vs run
χ² / ndf 73.81 / 73
p0 −6.628 ± 4.888
150
100
50
0
−50
−100
−150
pull
Entries 74
Mean −265.9
Std Dev 304.4
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

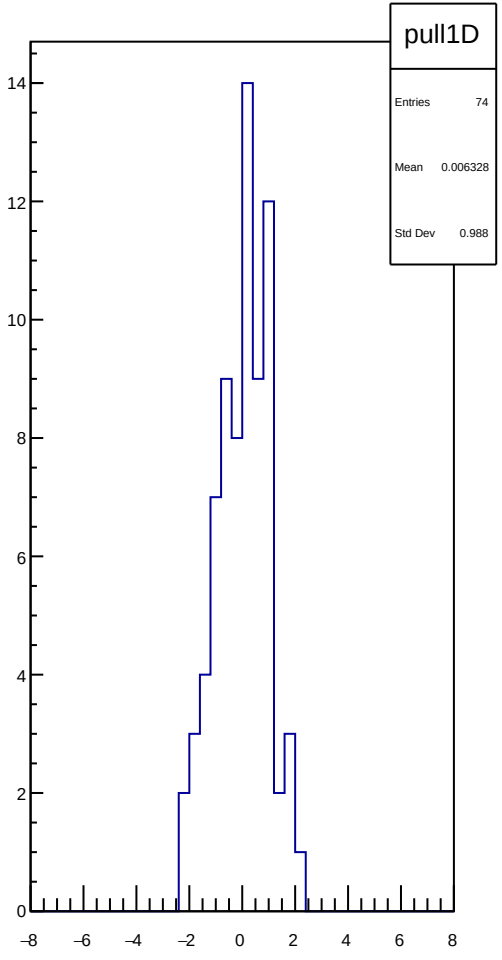

pull1D
Entries 74
Mean 0.01691
Std Dev 0.9985
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

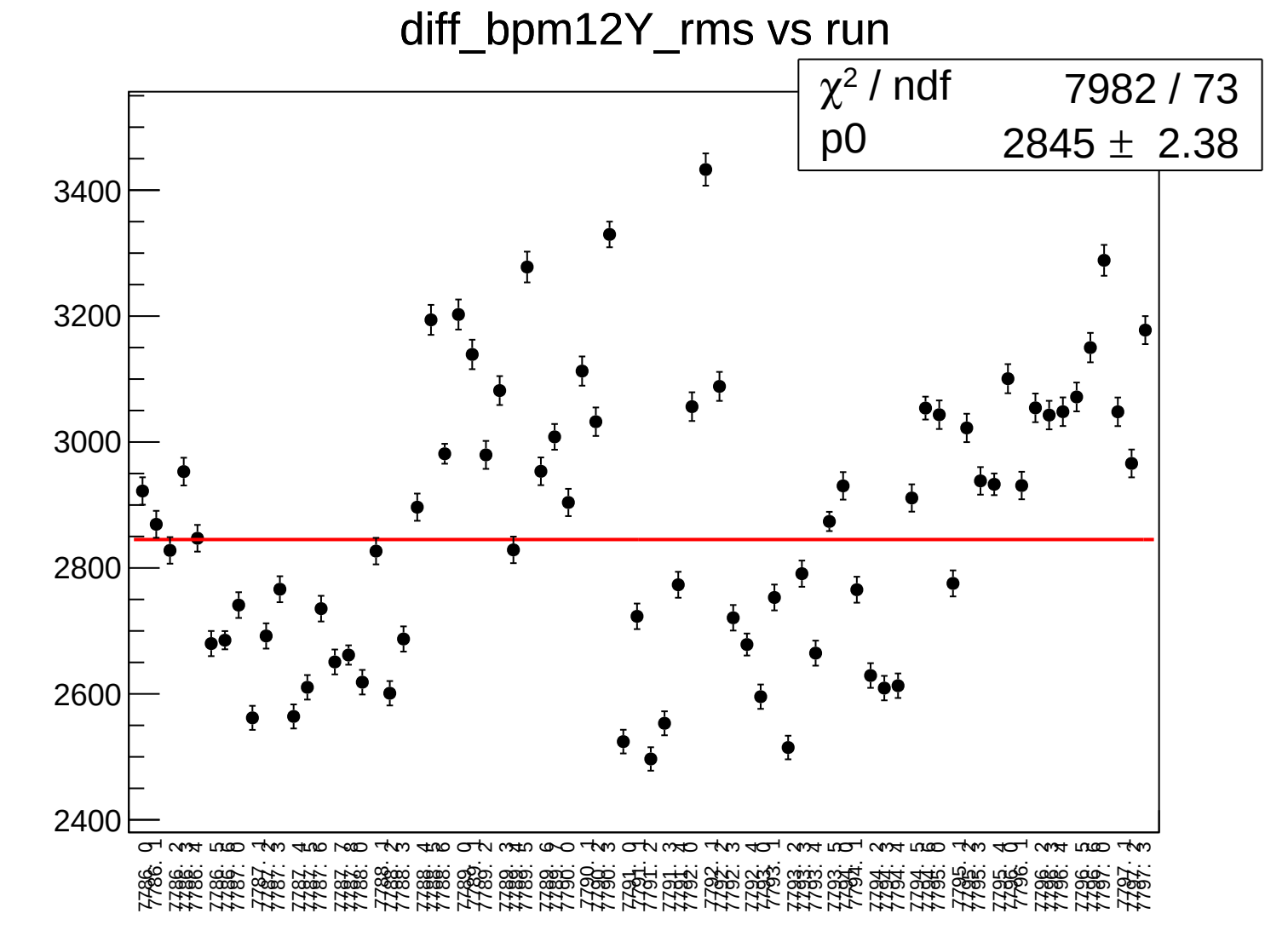

diff_bpm11Y_rms vs run
χ^2 / ndf 4654 / 73
p0 4137 ± 3.457
5000
4800
4600
4400
4200
4000
3800

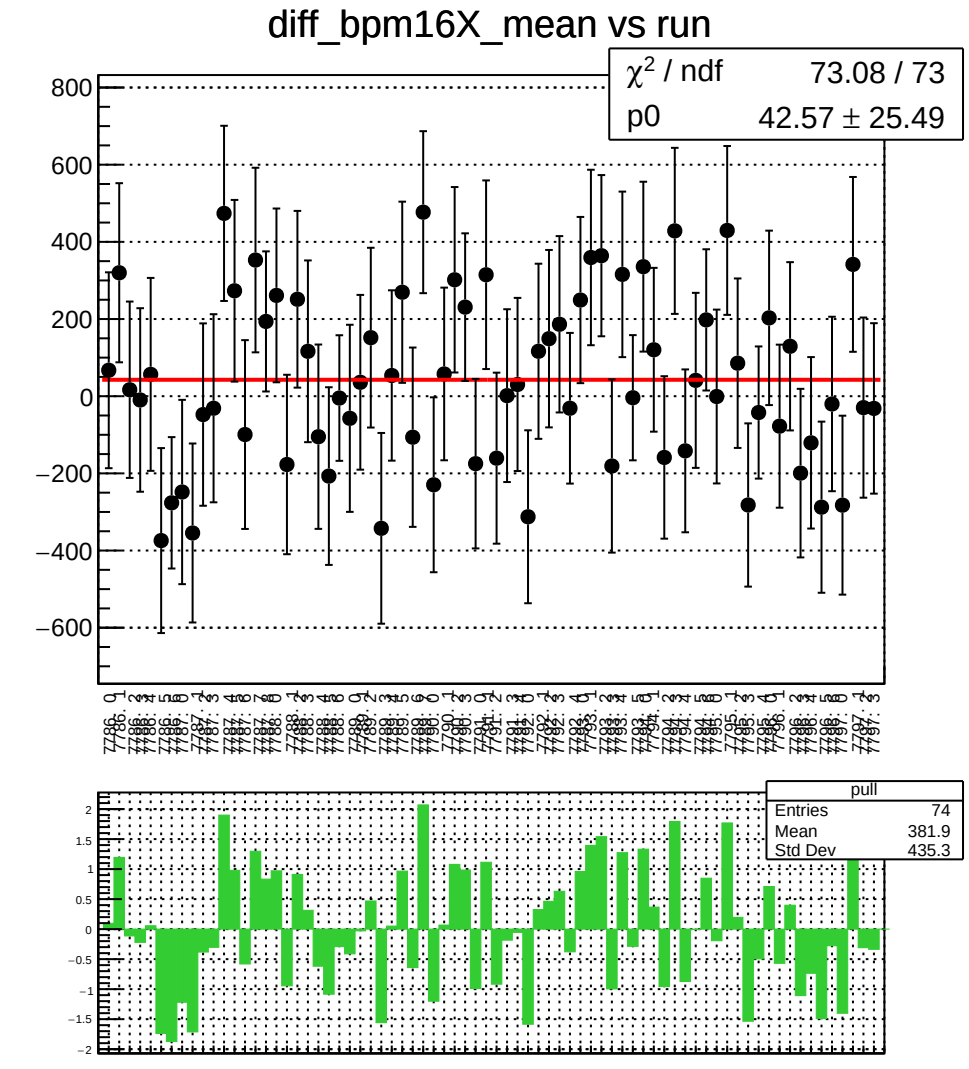

diff_bpm12X_mean vs run
χ² / ndf 73.59 / 73
p0 6.435 ± 42.5
pull
Entries 74
Mean −247.8
Std Dev 275.1
pull1D
Entries 74
Mean −0.01742
Std Dev 0.9971

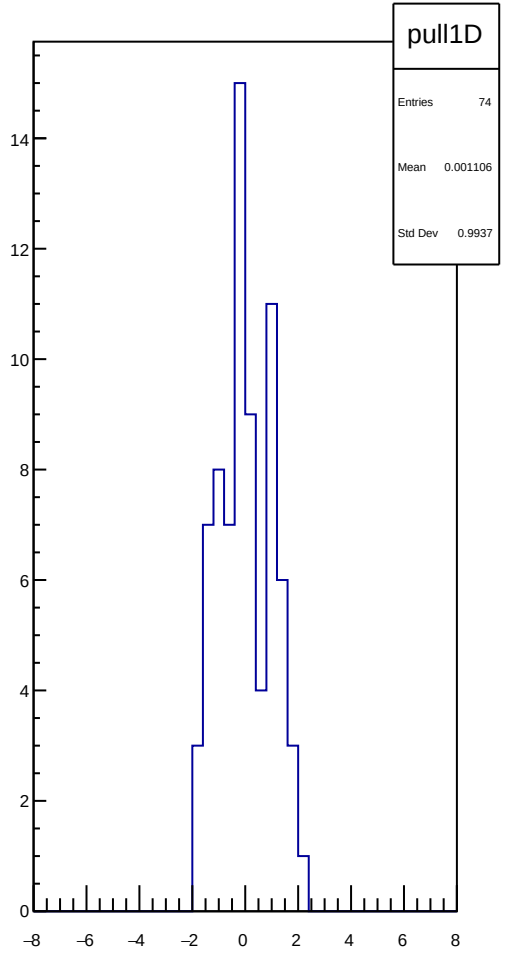

diff_bpm12X_rms vs run
χ² / ndf 2112 / 73
p0 3.6e+04 ± 30.05
40000
39000
38000
37000
36000
35000
34000
33000
32000

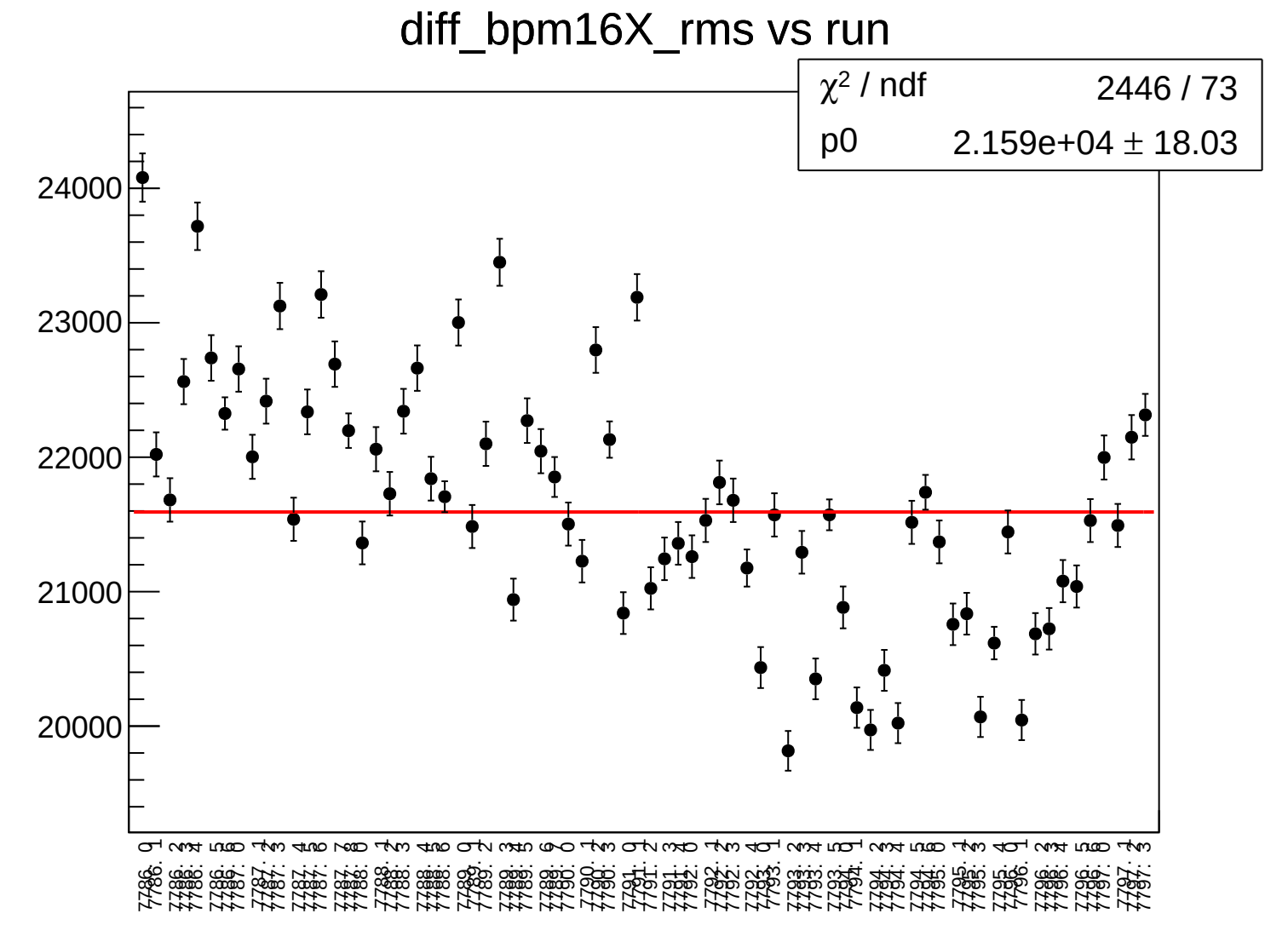

diff_bpm12Y_mean vs run
χ² / ndf 72.24 / 73
p0 −4.274 ± 3.366
pull
Entries 74
Mean −409.2
Std Dev 457.9

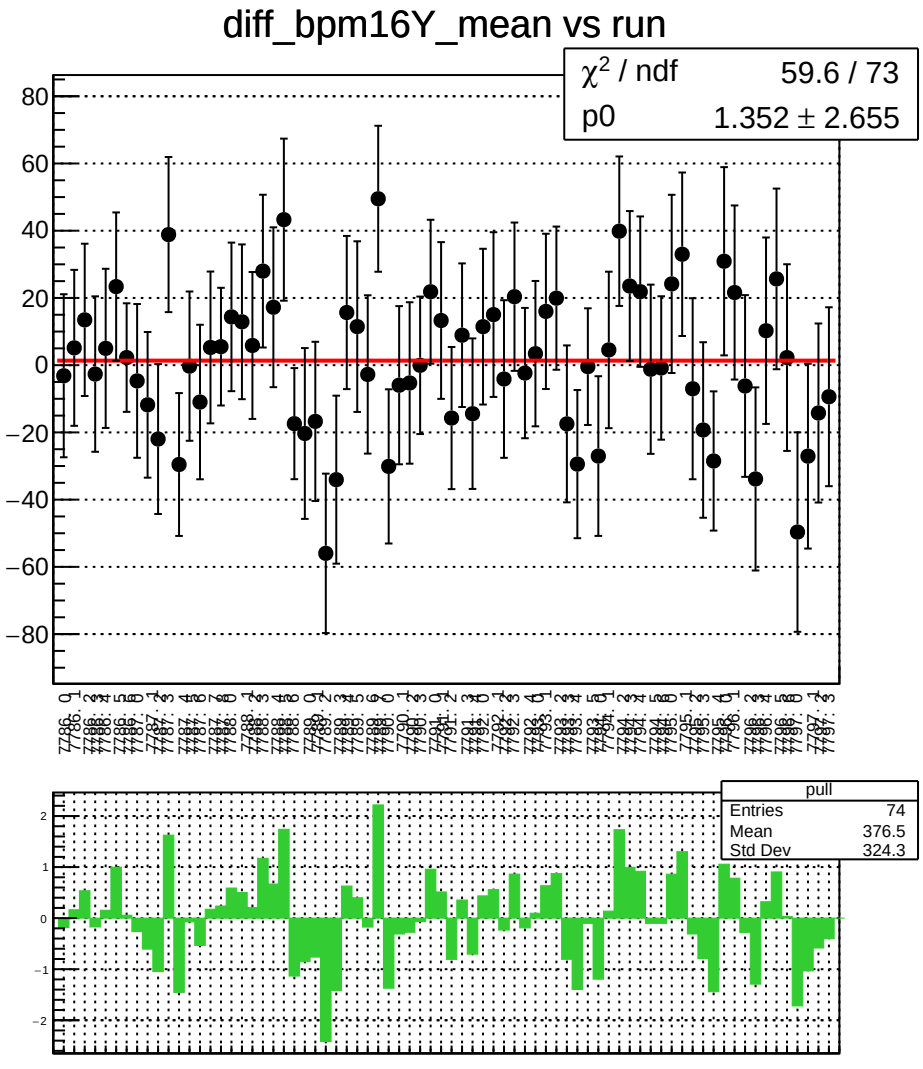

pull1D
Entries 74
Mean 0.006328
Std Dev 0.988

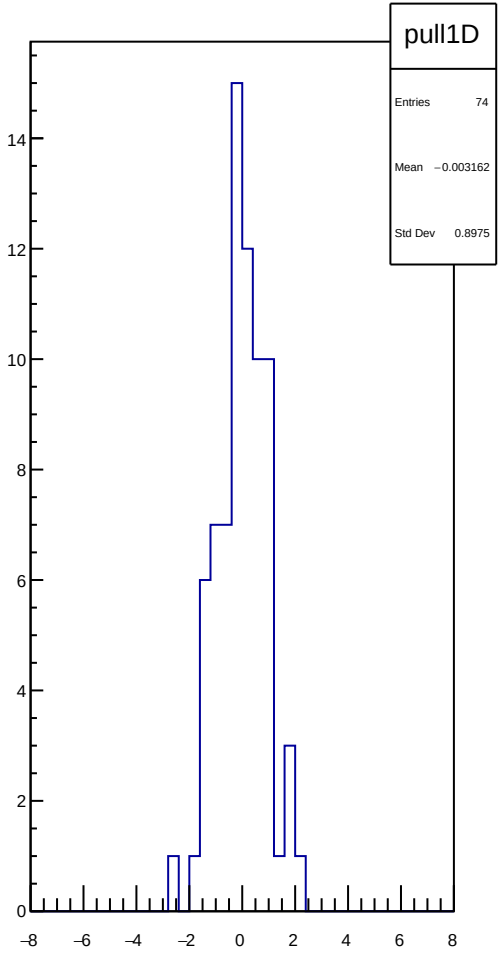

diff_bpm12Y_rms vs run
χ² / ndf 7982 / 73
p0 2845 ± 2.38
3400
3200
3000
2800
2600
2400

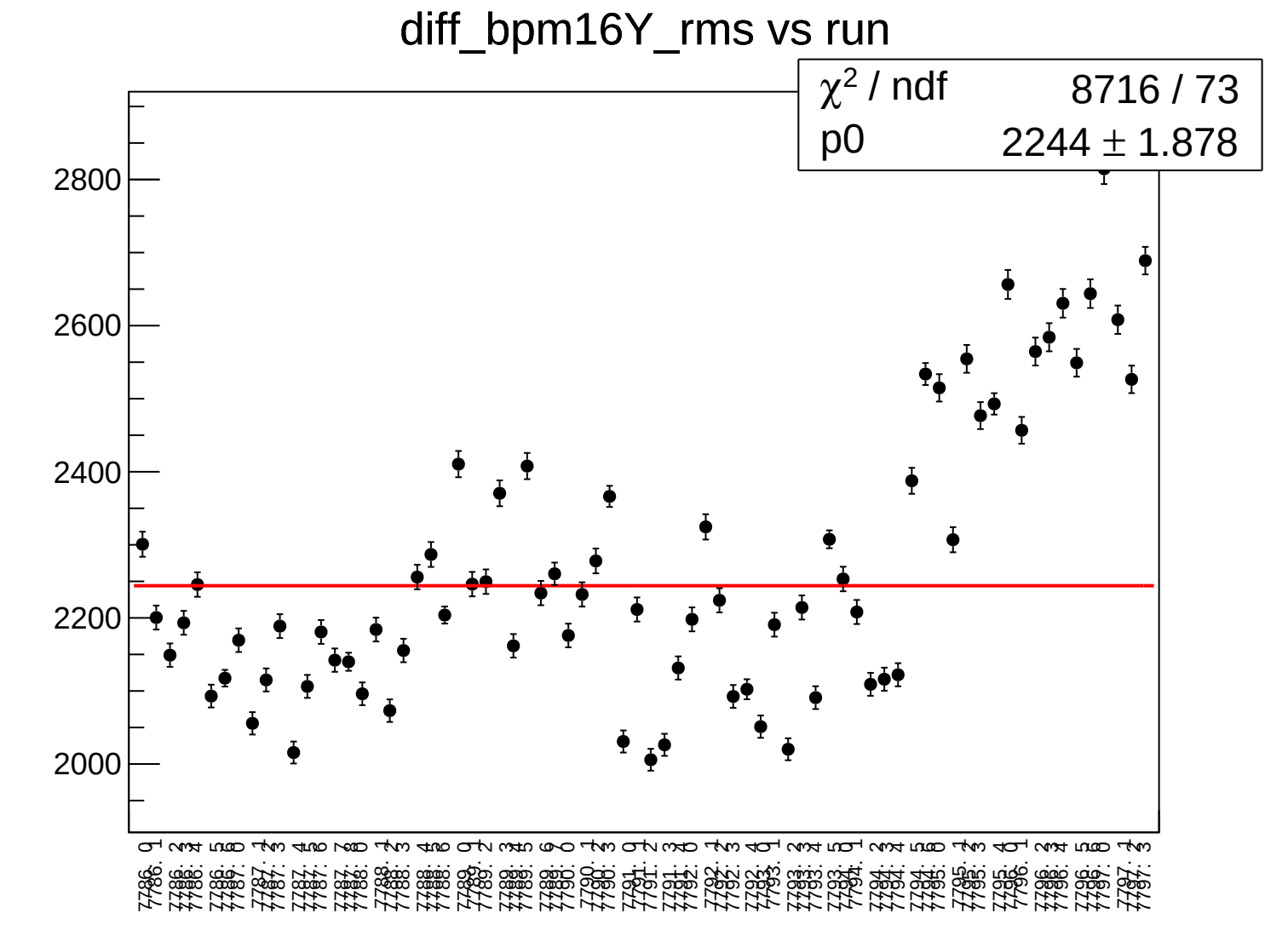

diff_bpm16X_mean vs run
χ² / ndf 73.08 / 73
p0 42.57 ± 25.49
pull
Entries 74
Mean 381.9
Std Dev 435.3

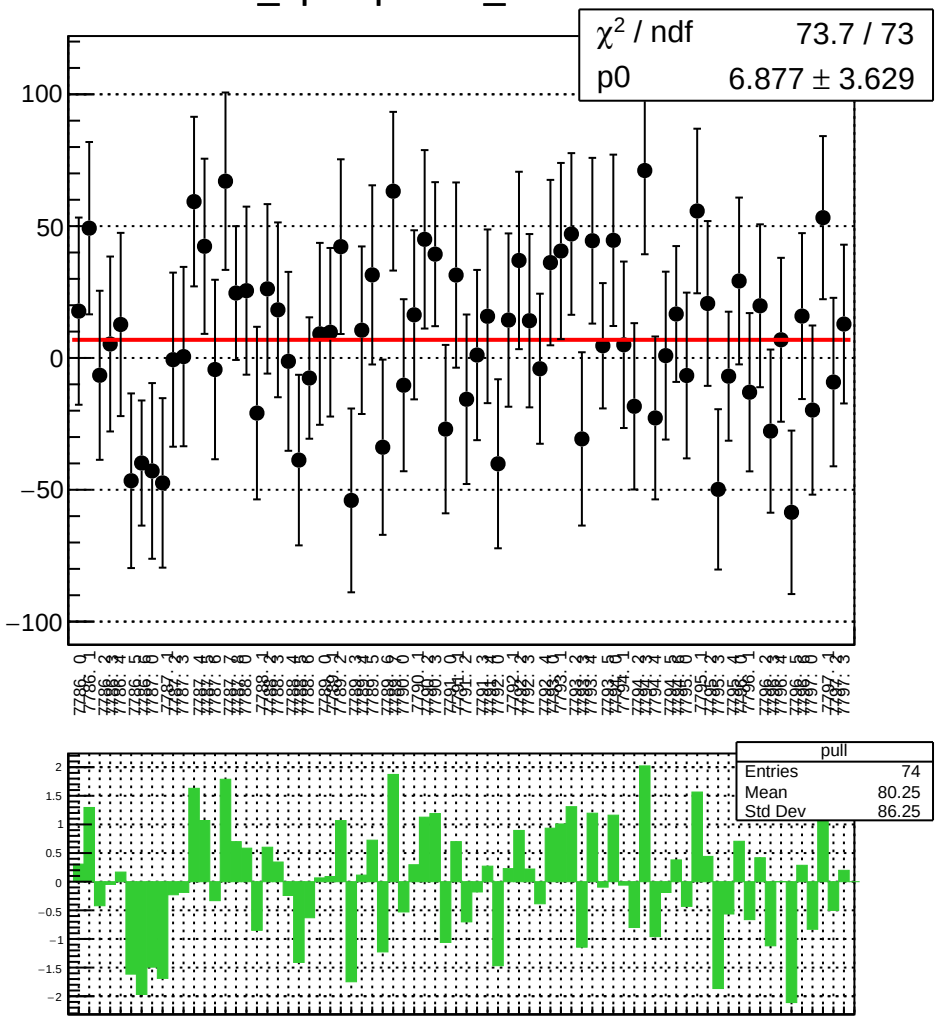

pull1D
Entries 74
Mean 0.001106
Std Dev 0.9937

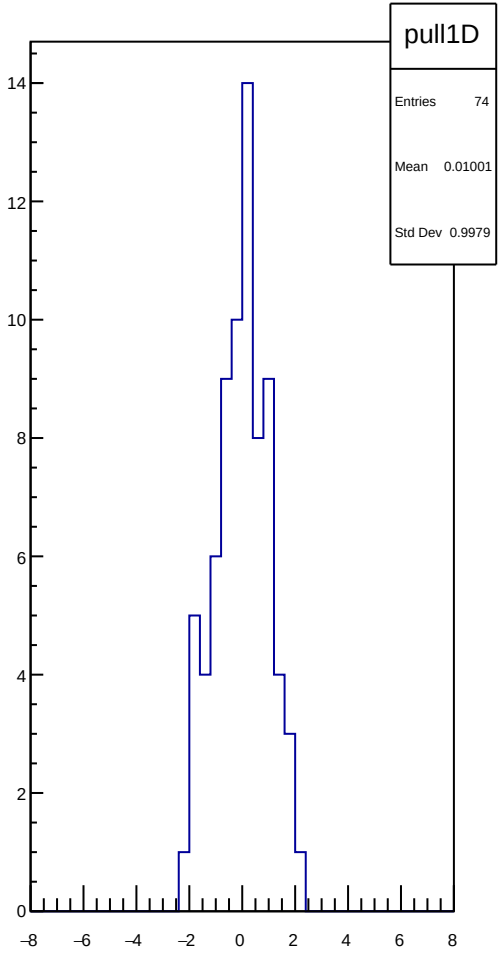

diff_bpm16X_rms vs run
χ² / ndf 2446 / 73
p0 2.159e+04 ± 18.03
24000
23000
22000
21000
20000

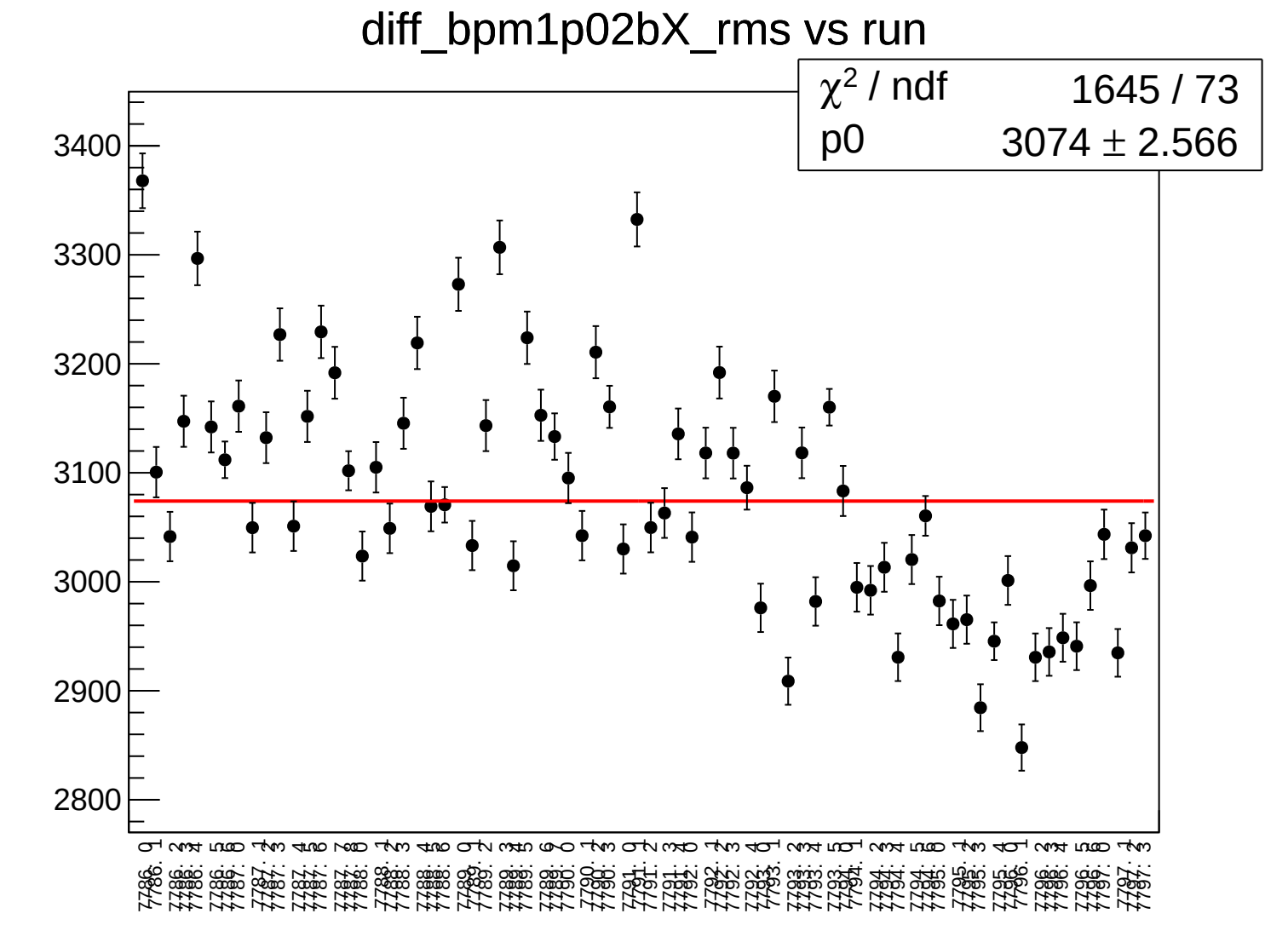

diff_bpm16Y_mean vs run
χ^2 / ndf 59.6 / 73
p0 1.352 ± 2.655
pull
Entries 74
Mean 376.5
Std Dev 324.3

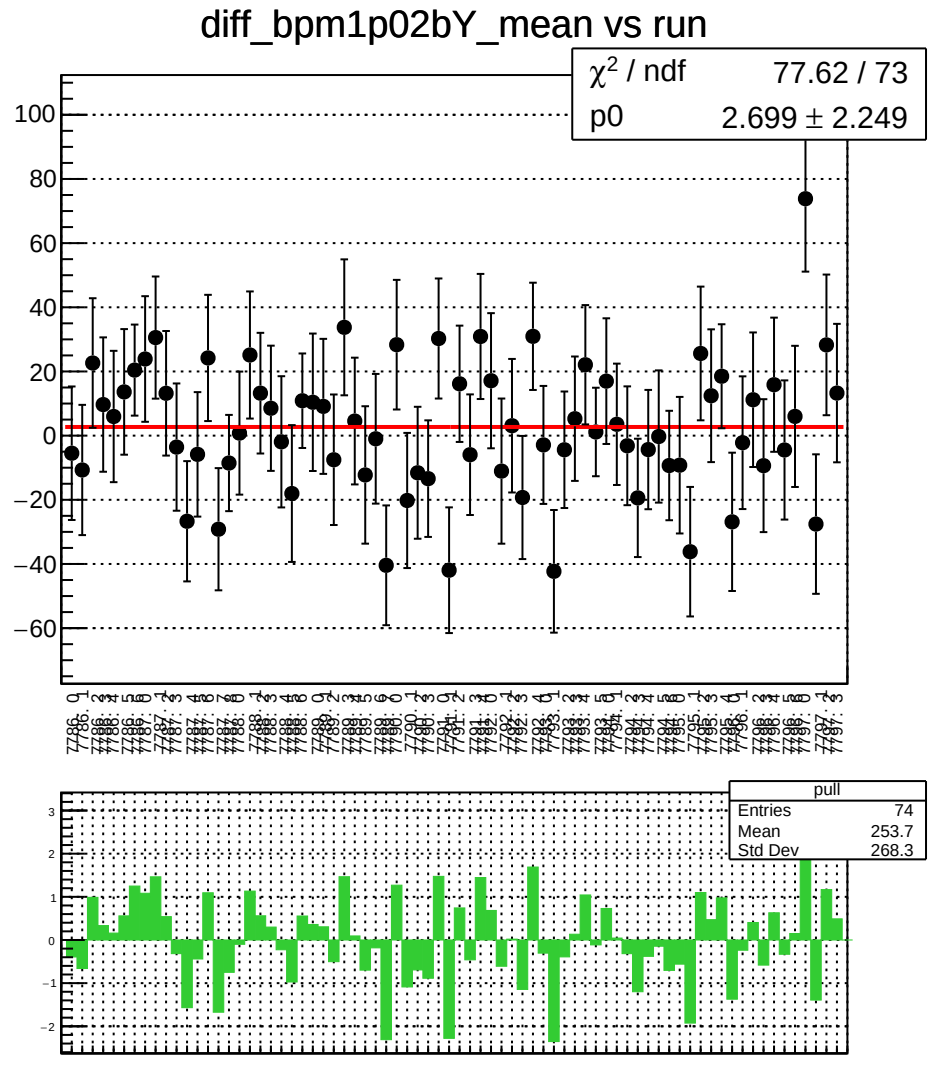

pull1D
Entries 74
Mean −0.003162
Std Dev 0.8975

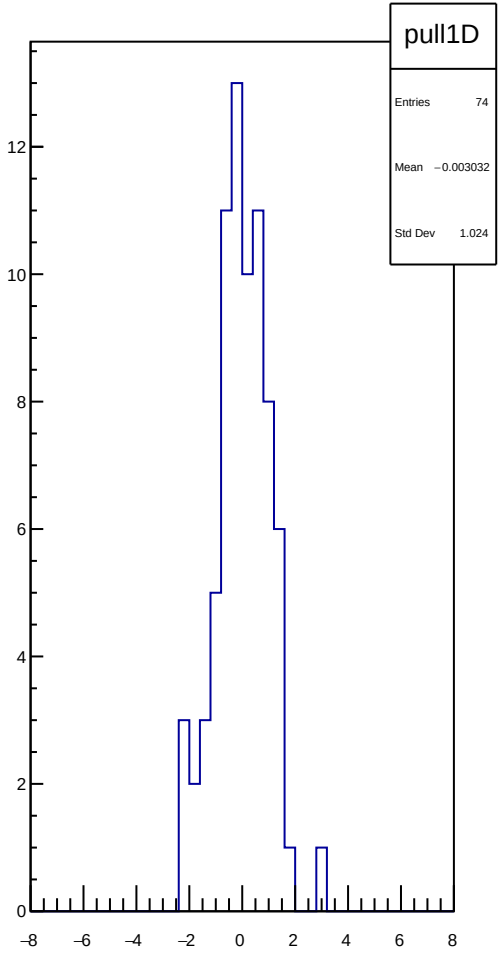

diff_bpm16Y_rms vs run
χ² / ndf 8716 / 73
p0 2244 ± 1.878
2800
2600
2400
2200
2000

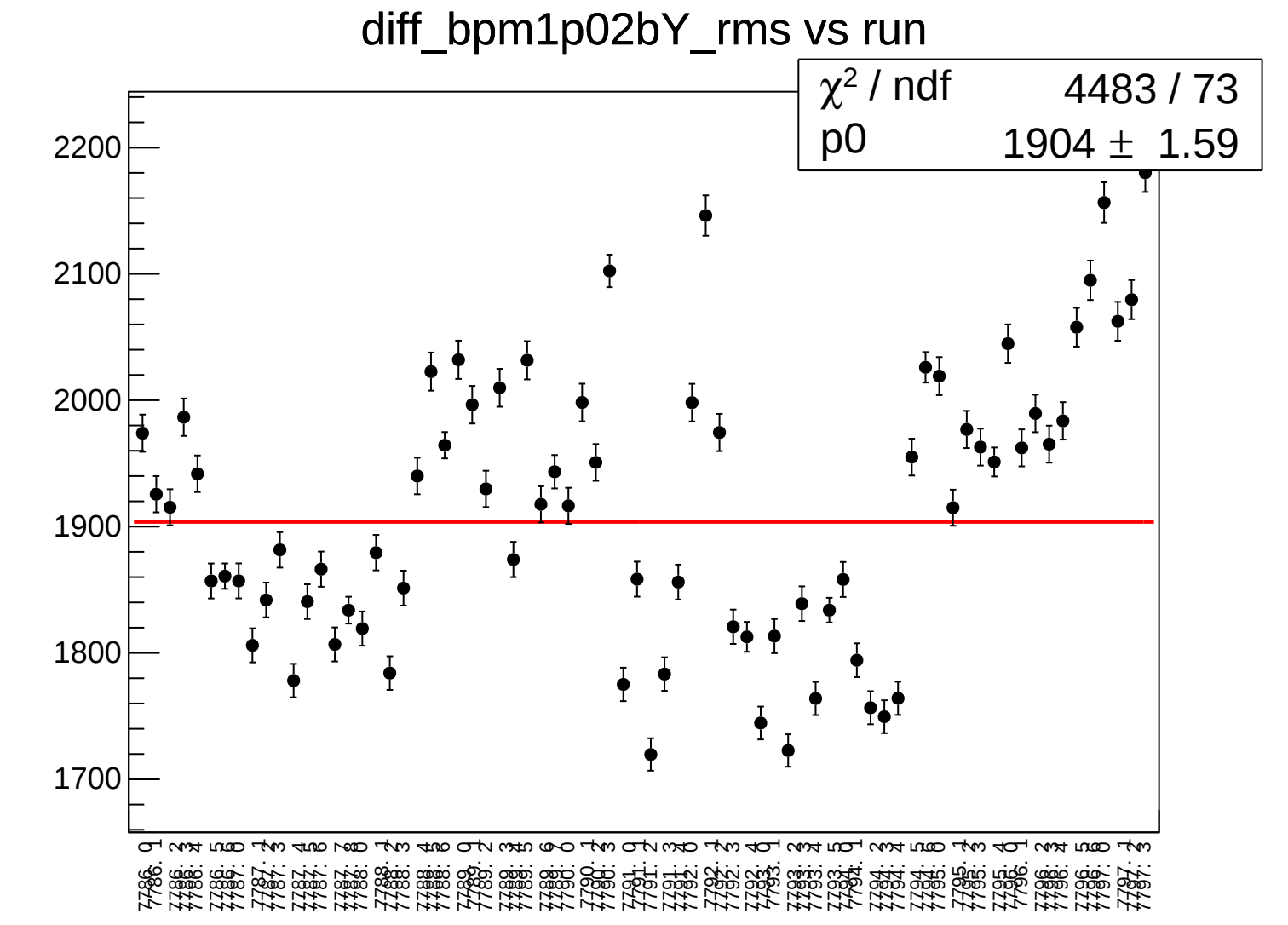

diff_bpm1p02bX_mean vs run
χ² / ndf 73.7 / 73
p0 6.877 ± 3.629
pull
Entries 74
Mean 80.25
Std Dev 86.25

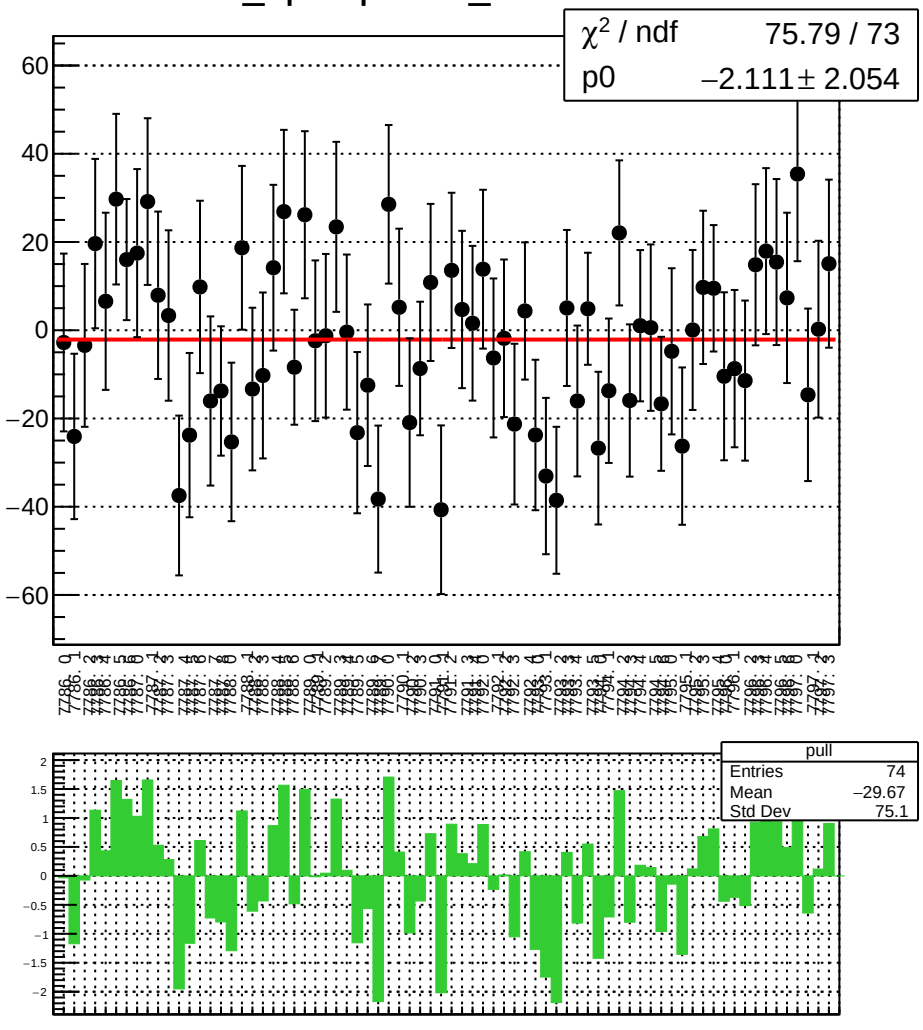

pull1D
Entries 74
Mean 0.01001
Std Dev 0.9979

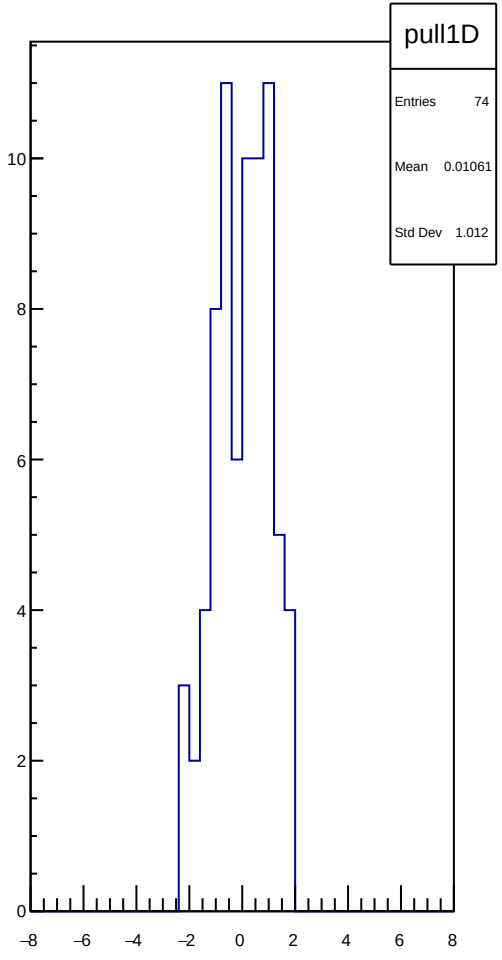

diff_bpm1p02bX_rms vs run
χ² / ndf 1645 / 73
p0 3074 ± 2.566
3400
3300
3200
3100
3000
2900
2800

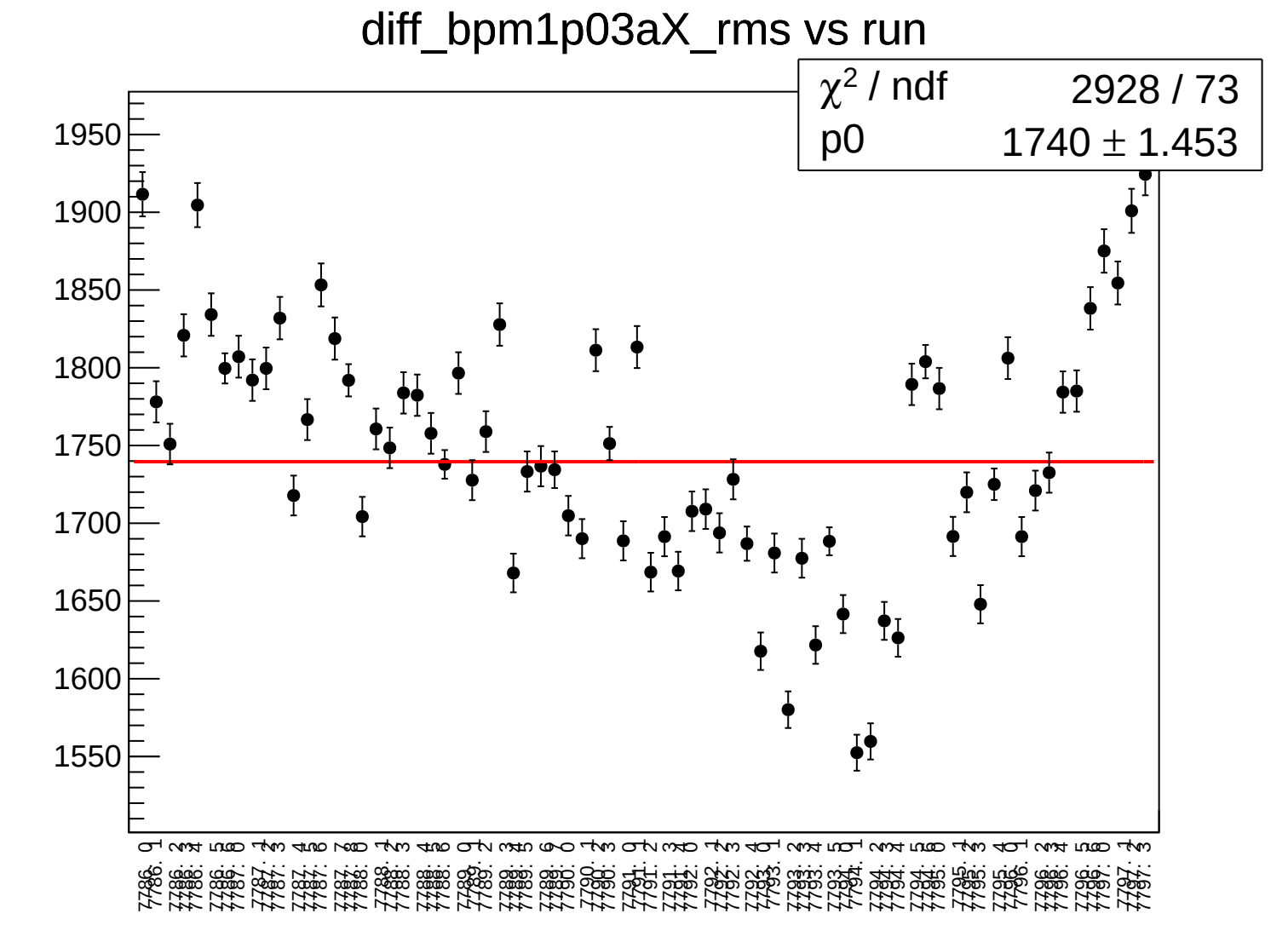

diff_bpm1p02bY_mean vs run
χ^2 / ndf 77.62 / 73
p0 2.699 ± 2.249
pull
Entries 74
Mean 253.7
Std Dev 268.3

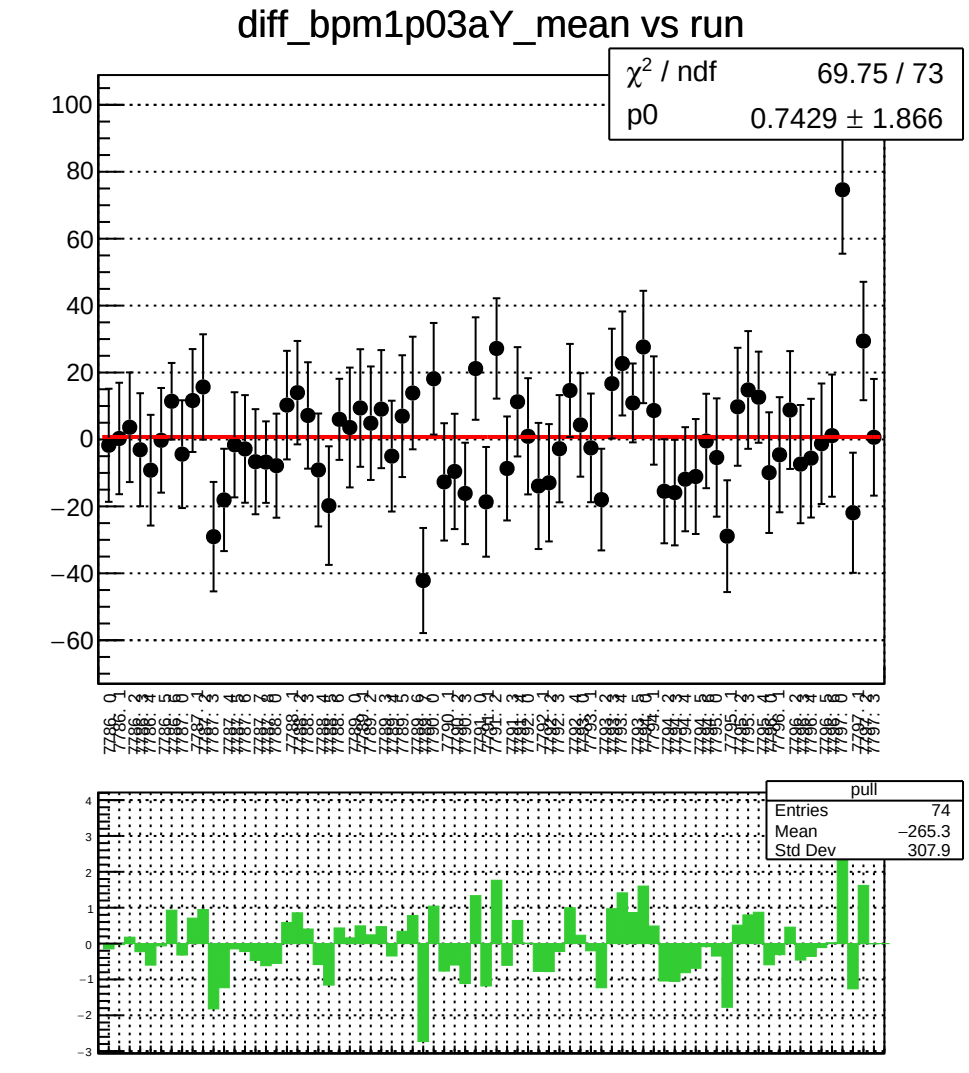

pull1D
Entries 74
Mean −0.003032
Std Dev 1.024

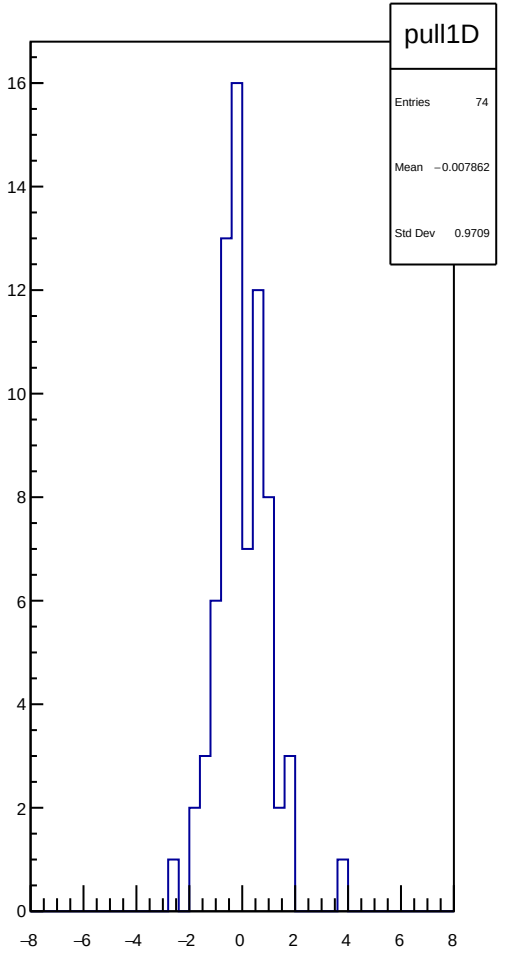

diff_bpm1p02bY_rms vs run
χ² / ndf 4483 / 73
p0 1904 ± 1.59
2200
2100
2000
1900
1800
1700

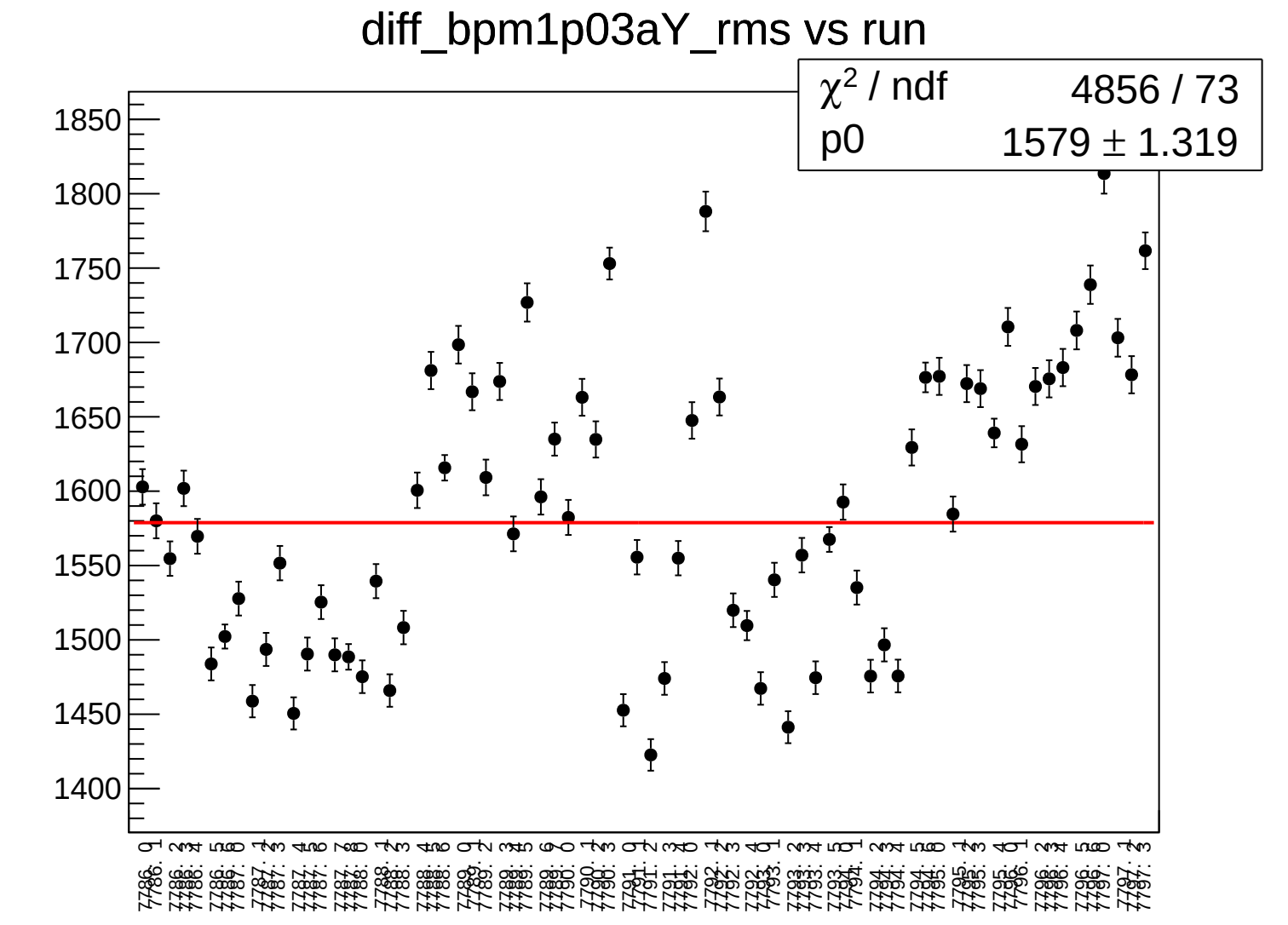

diff_bpm1p03aX_mean vs run
χ² / ndf 75.79 / 73
p0 −2.111 ± 2.054
pull
Entries 74
Mean −29.67
Std Dev 75.1

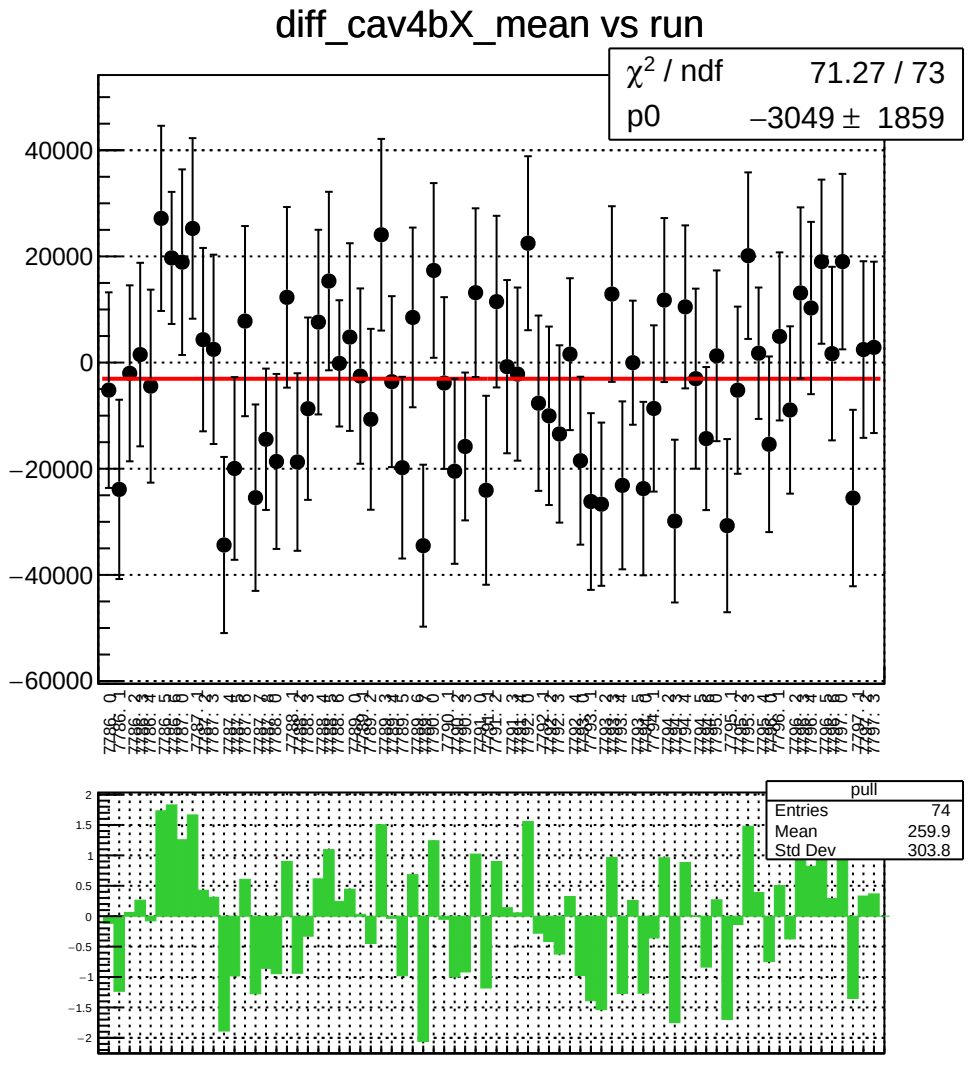

pull1D
Entries 74
Mean 0.01061
Std Dev 1.012

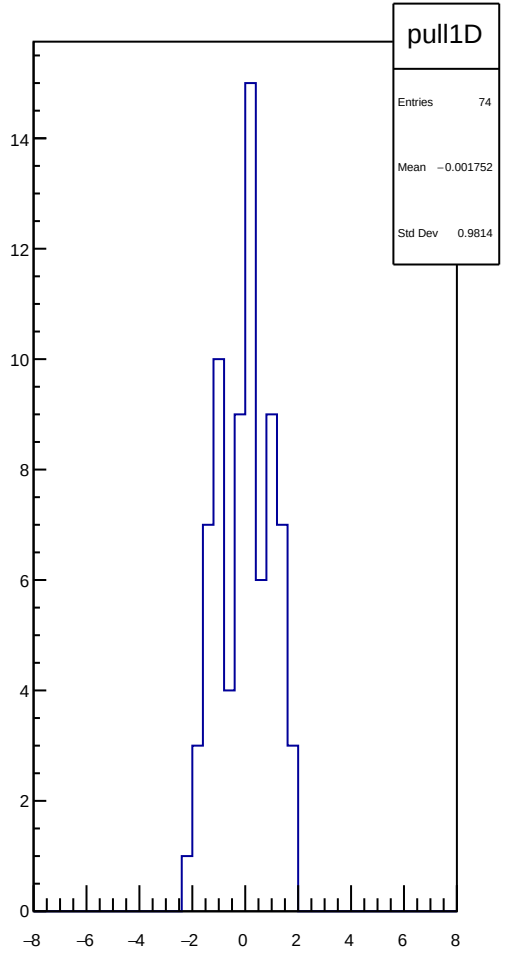

diff_bpm1p03aX_rms vs run
χ² / ndf 2928 / 73
p0 1740 ± 1.453
1950
1900
1850
1800
1750
1700
1650
1600
1550

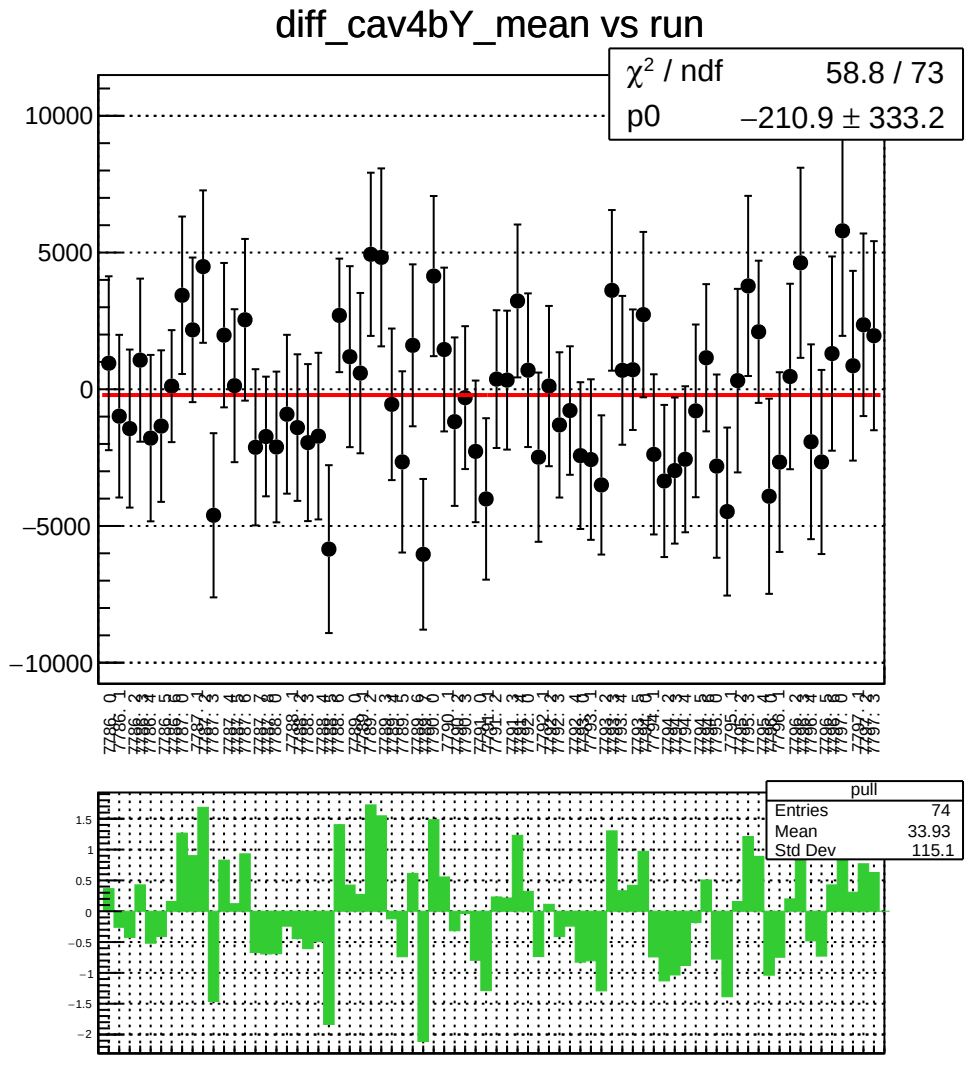

diff_bpm1p03aY_mean vs run
χ² / ndf 69.75 / 73
p0 0.7429 ± 1.866
pull
Entries 74
Mean −265.3
Std Dev 307.9

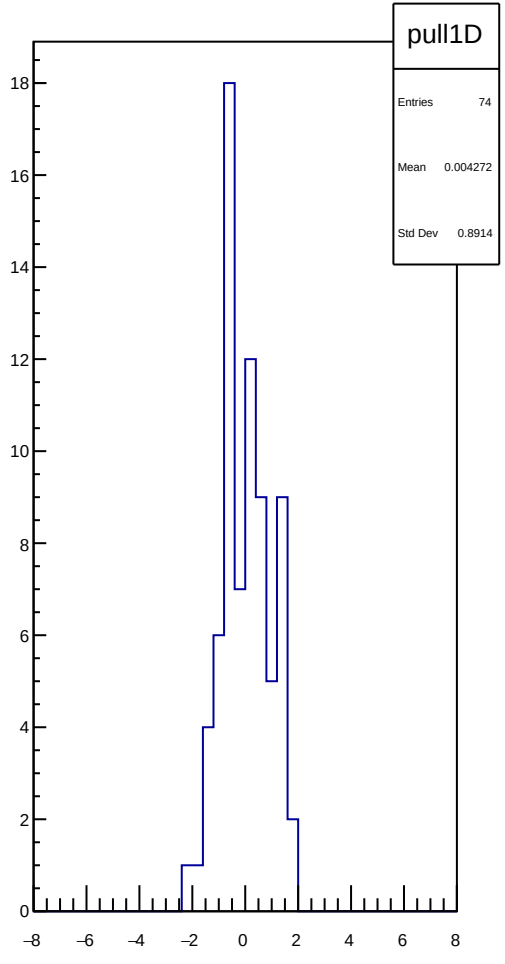

pull1D
Entries 74
Mean −0.007862
Std Dev 0.9709

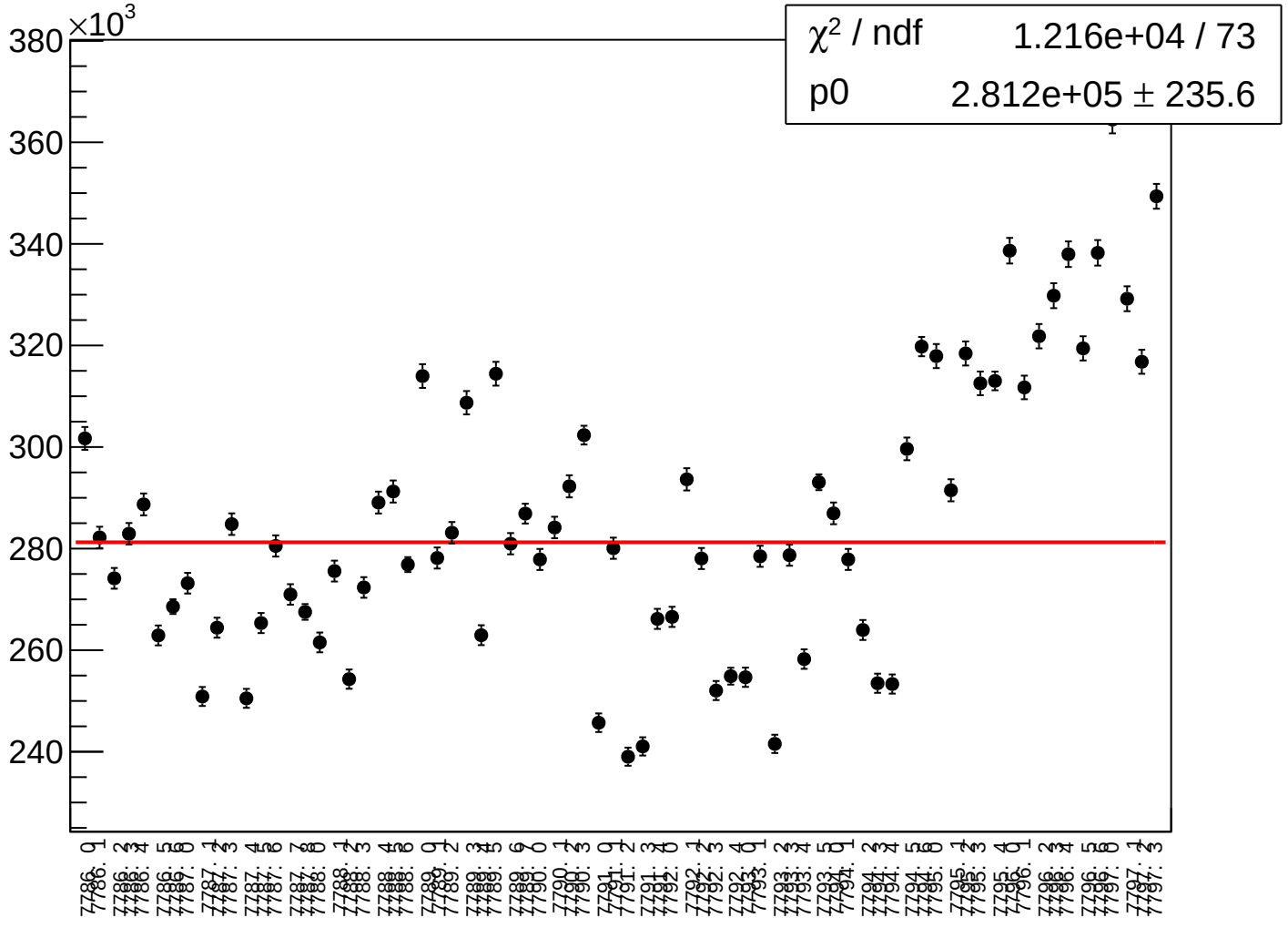

diff_bpm1p03aY_rms vs run
χ² / ndf 4856 / 73
p0 1579 ± 1.319
1850
1800
1750
1700
1650
1600
1550
1500
1450
1400

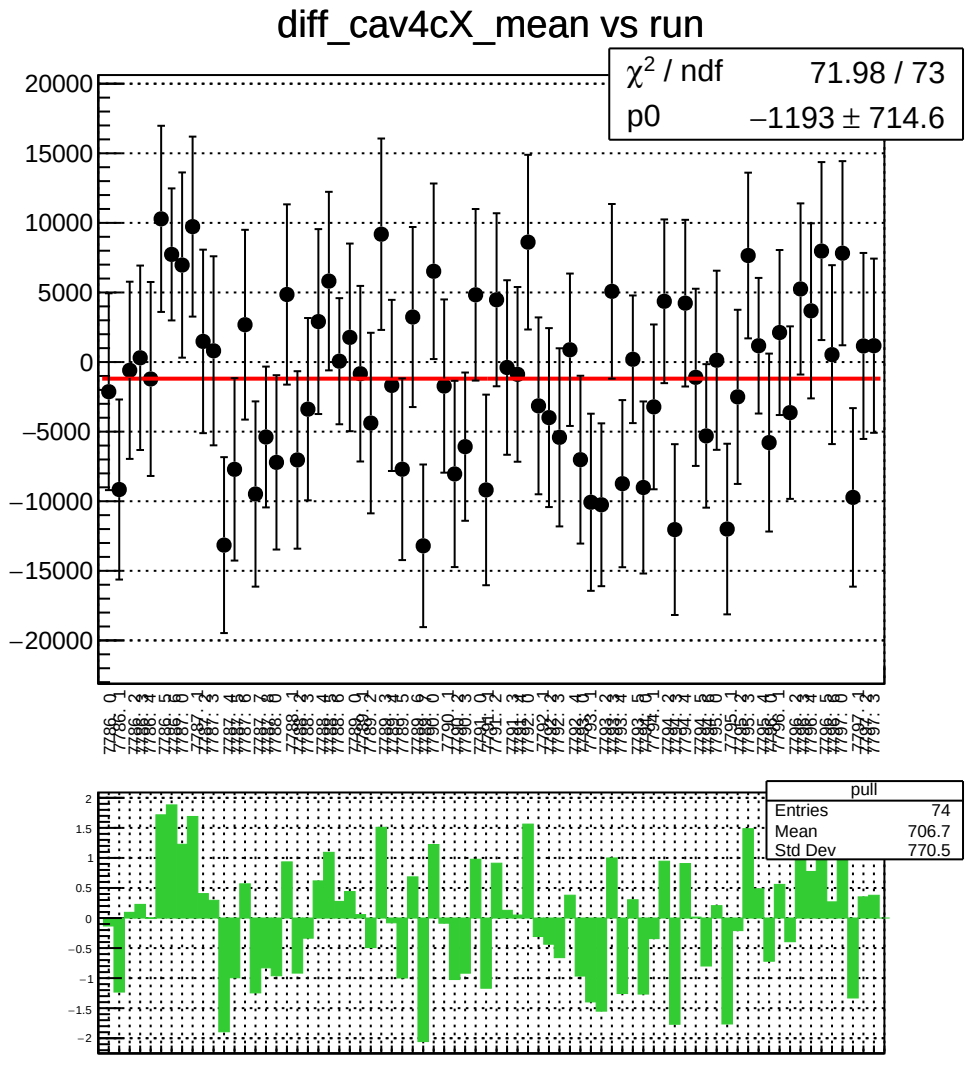

diff_cav4bX_mean vs run
χ² / ndf 71.27 / 73
p0 −3049 ± 1859
40000
20000
0
−20000
−40000
−60000
pull
Entries 74
Mean 259.9
Std Dev 303.8
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

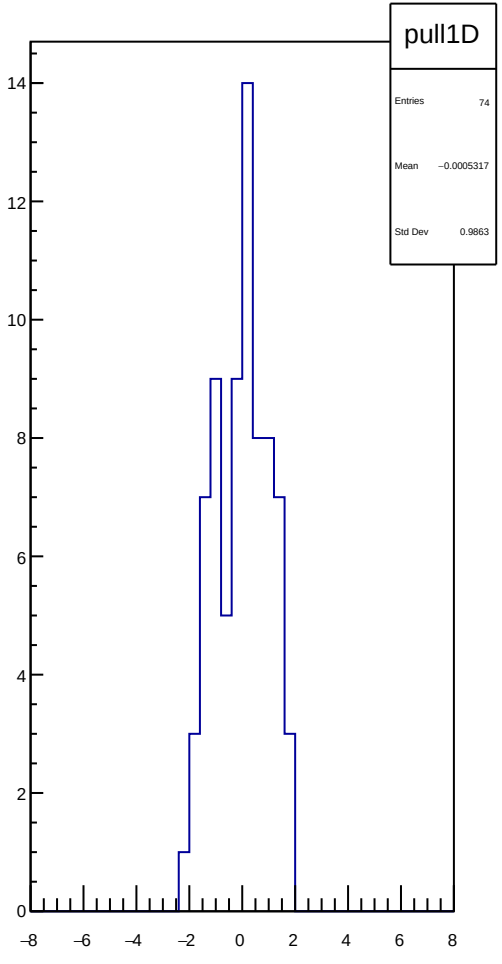

pull1D
Entries 74
Mean −0.001752
Std Dev 0.9814
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

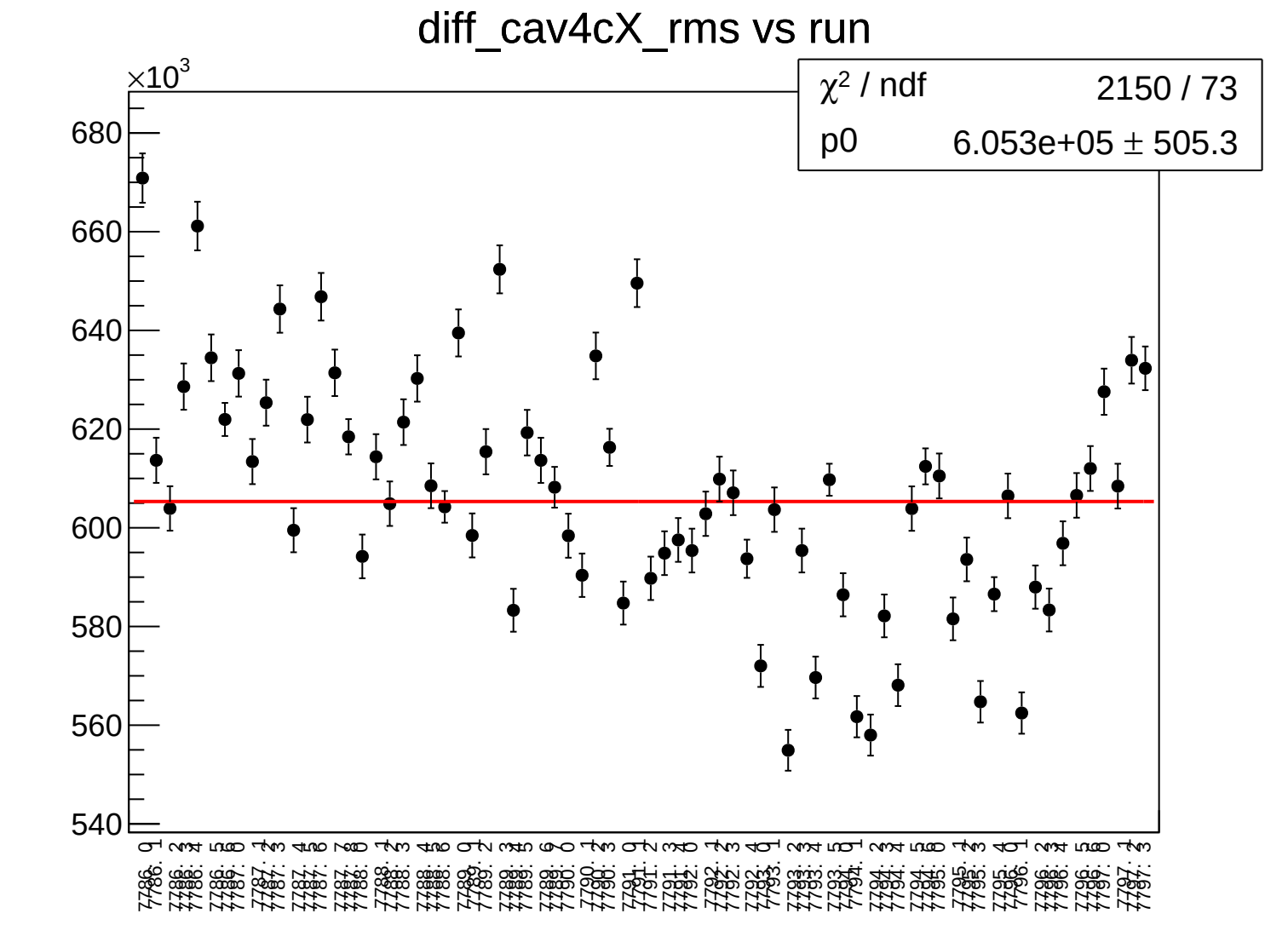

diff_cav4bY_mean vs run
χ² / ndf 58.8 / 73
p0 −210.9 ± 333.2
10000
5000
0
−5000
−10000
pull
Entries 74
Mean 33.93
Std Dev 115.1
1.5
1
0.5
0
−0.5
−1
−1.5
−2

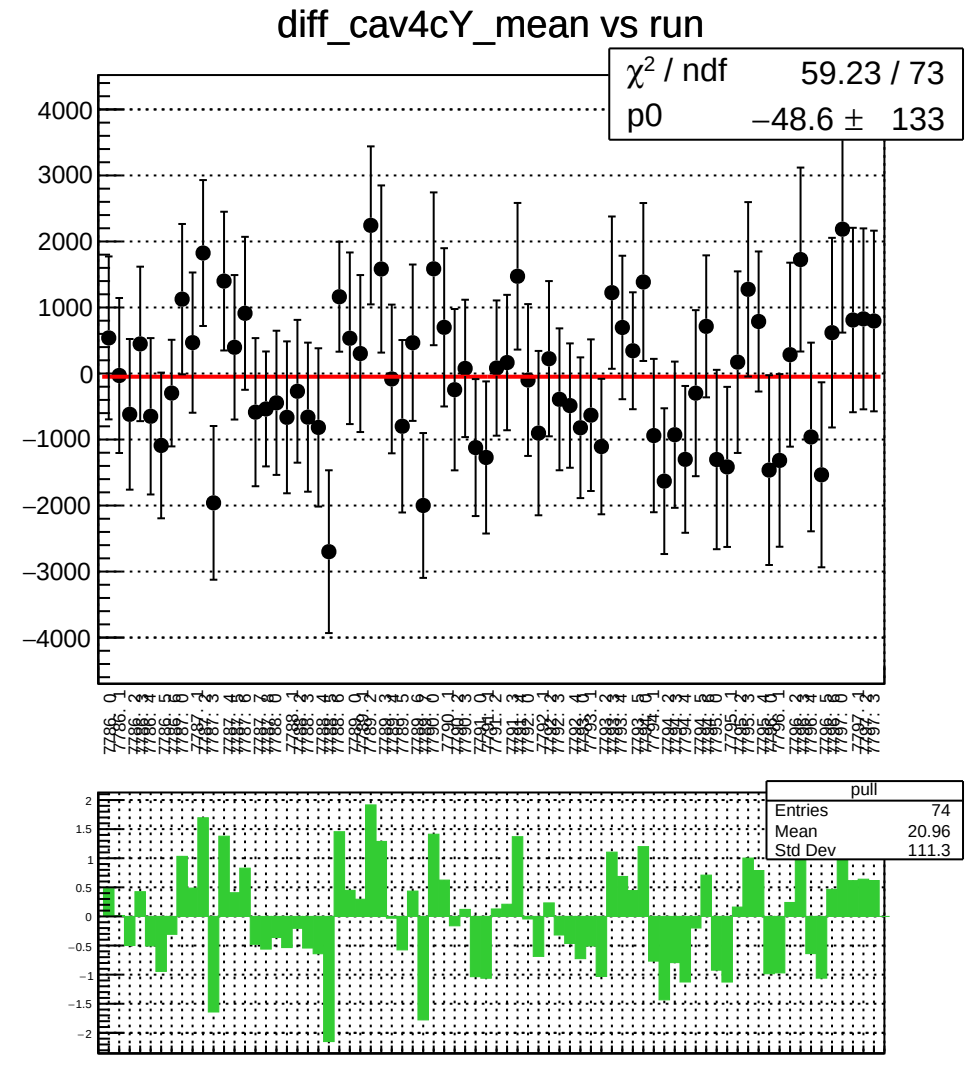

pull1D
Entries 74
Mean 0.004272
Std Dev 0.8914
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

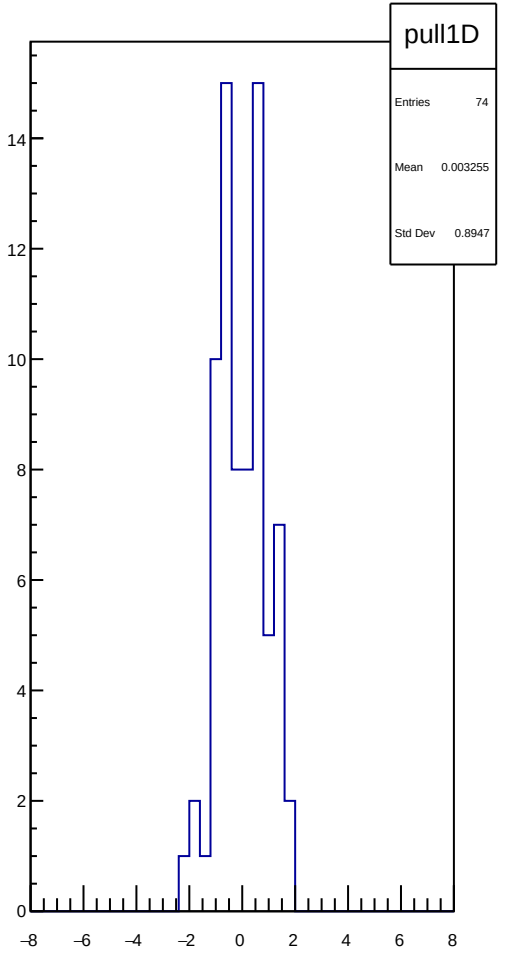

diff_cav4bY_rms vs run
χ² / ndf 1.216e+04 / 73
p0 2.812e+05 ± 235.6
×10³
380
360
340
320
300
280
260
240

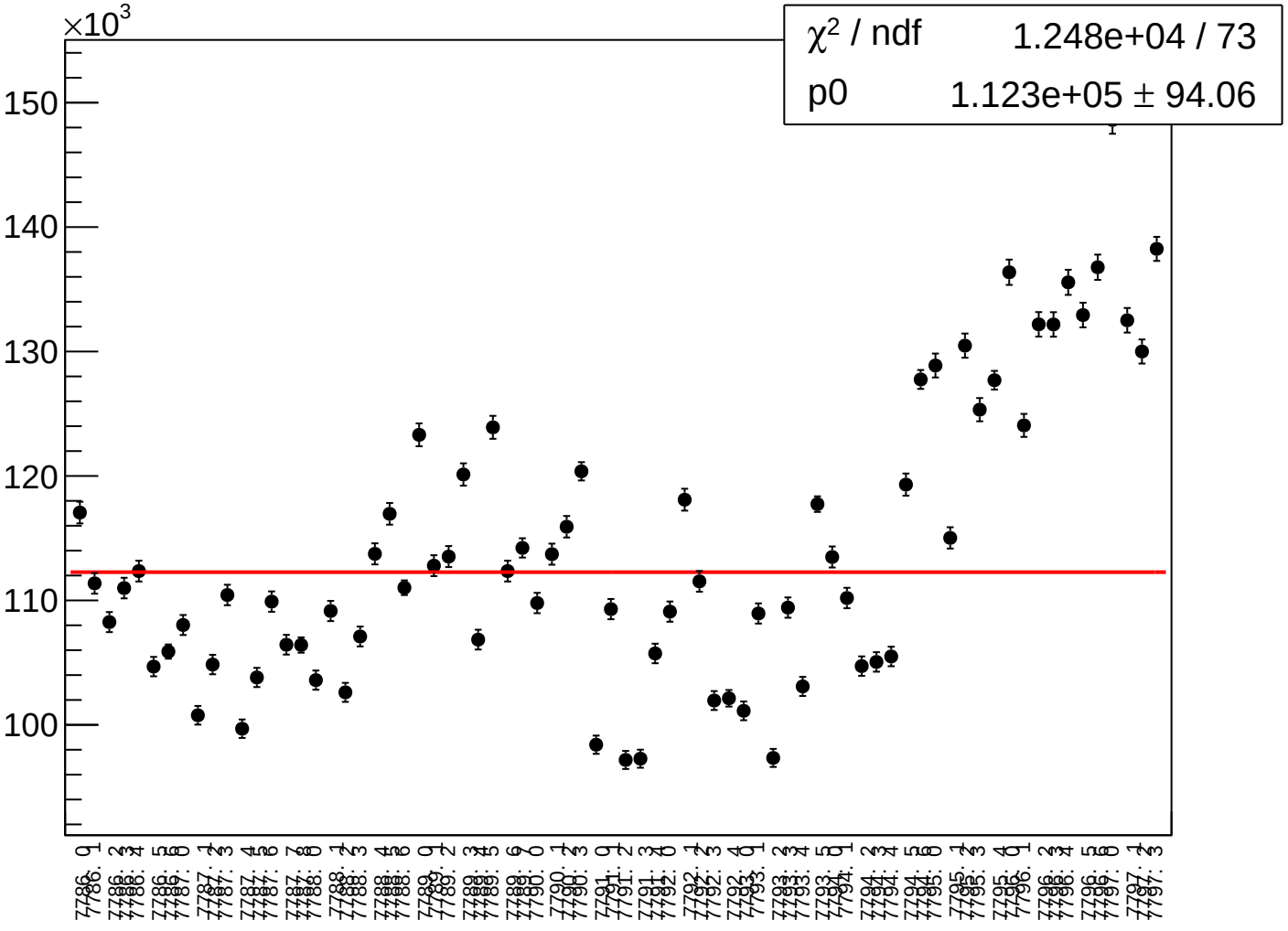

diff_cav4cX_mean vs run
χ² / ndf 71.98 / 73
p0 −1193 ± 714.6
pull
Entries 74
Mean 706.7
Std Dev 770.5

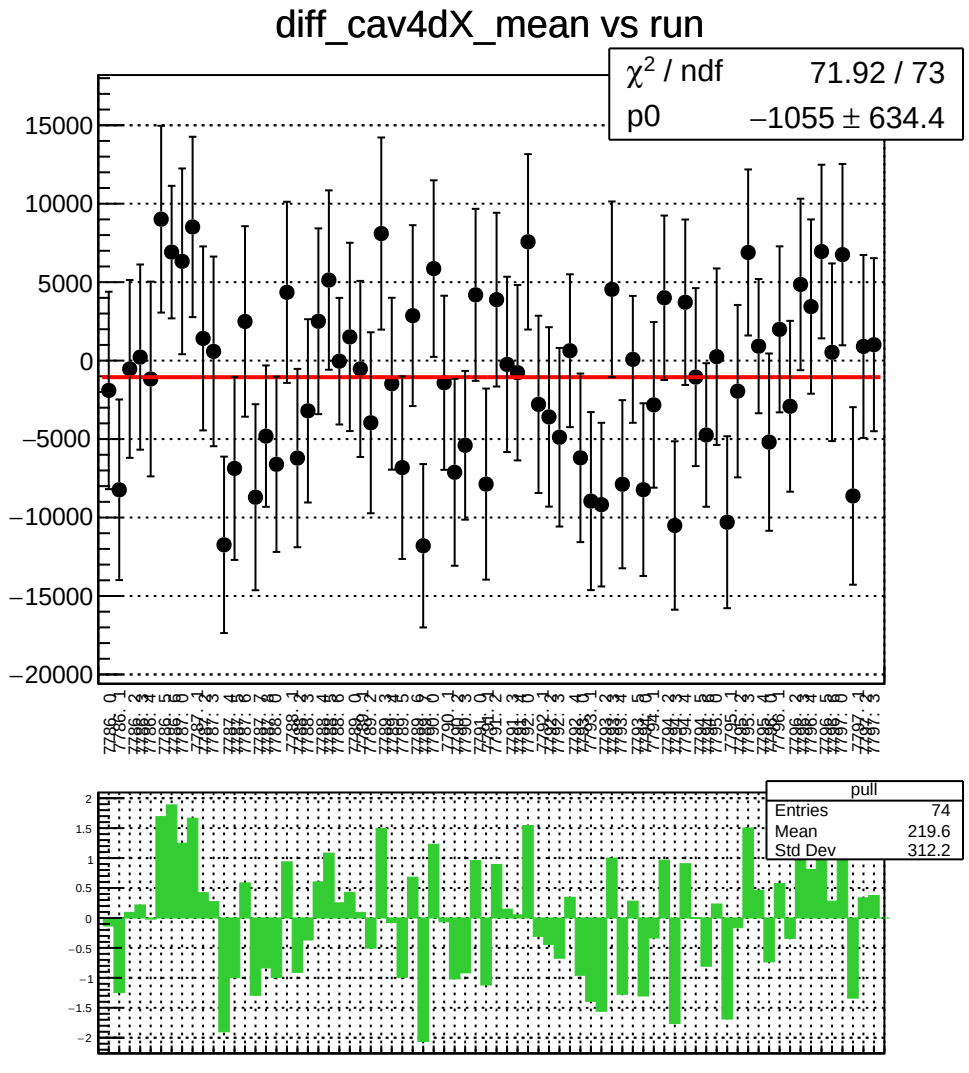

pull1D
Entries 74
Mean −0.0005317
Std Dev 0.9863

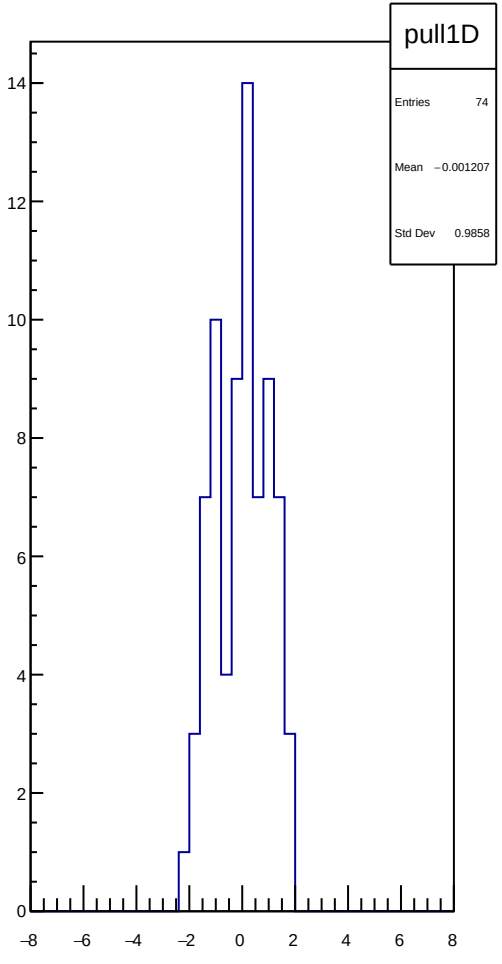

diff_cav4cX_rms vs run
×10^3
680
660
640
620
600
580
560
540
χ² / ndf 2150 / 73
p0 6.053e+05 ± 505.3

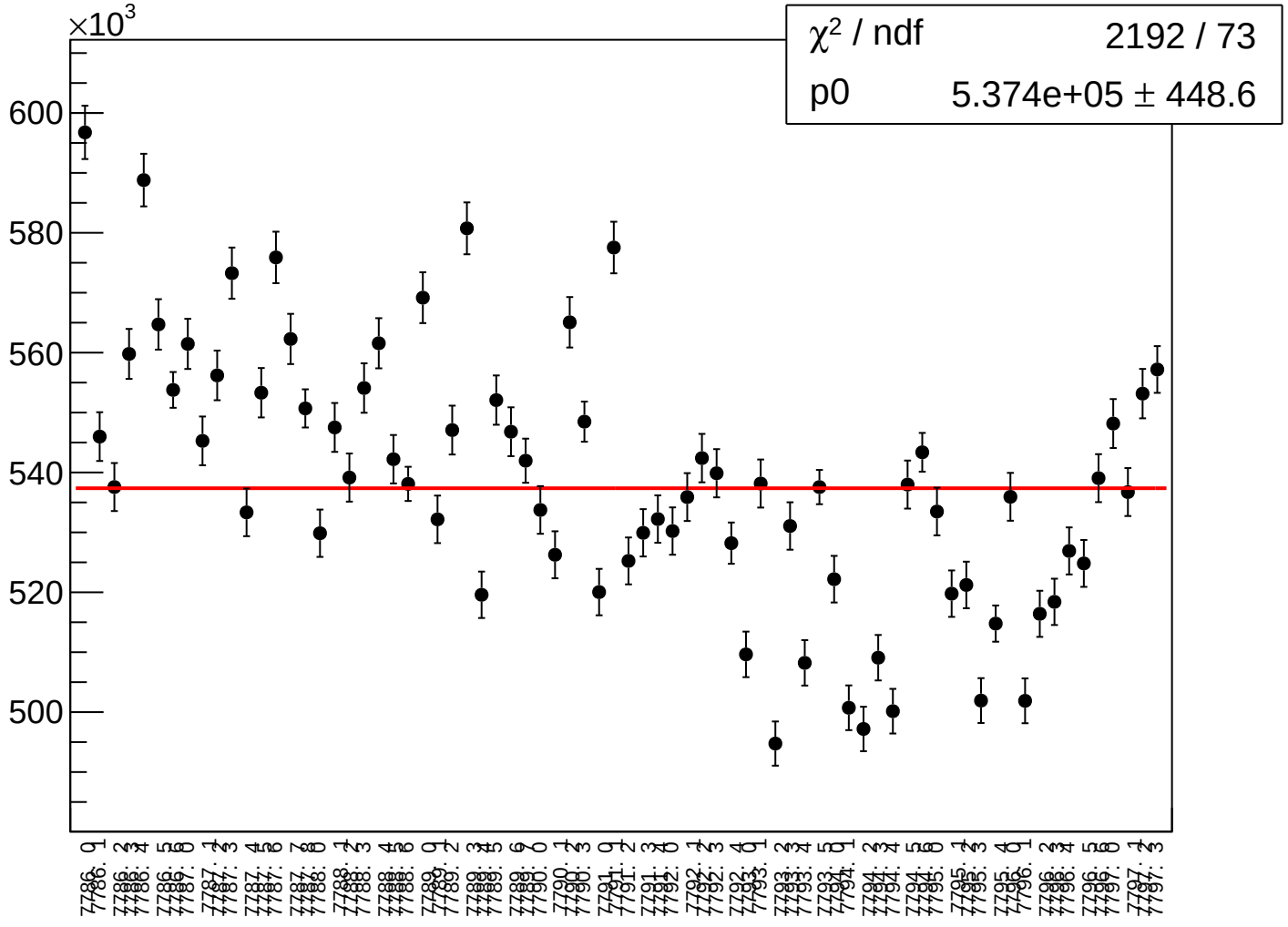

diff_cav4cY_mean vs run
χ² / ndf 59.23 / 73
p0 −48.6 ± 133
pull
Entries 74
Mean 20.96
Std Dev 111.3

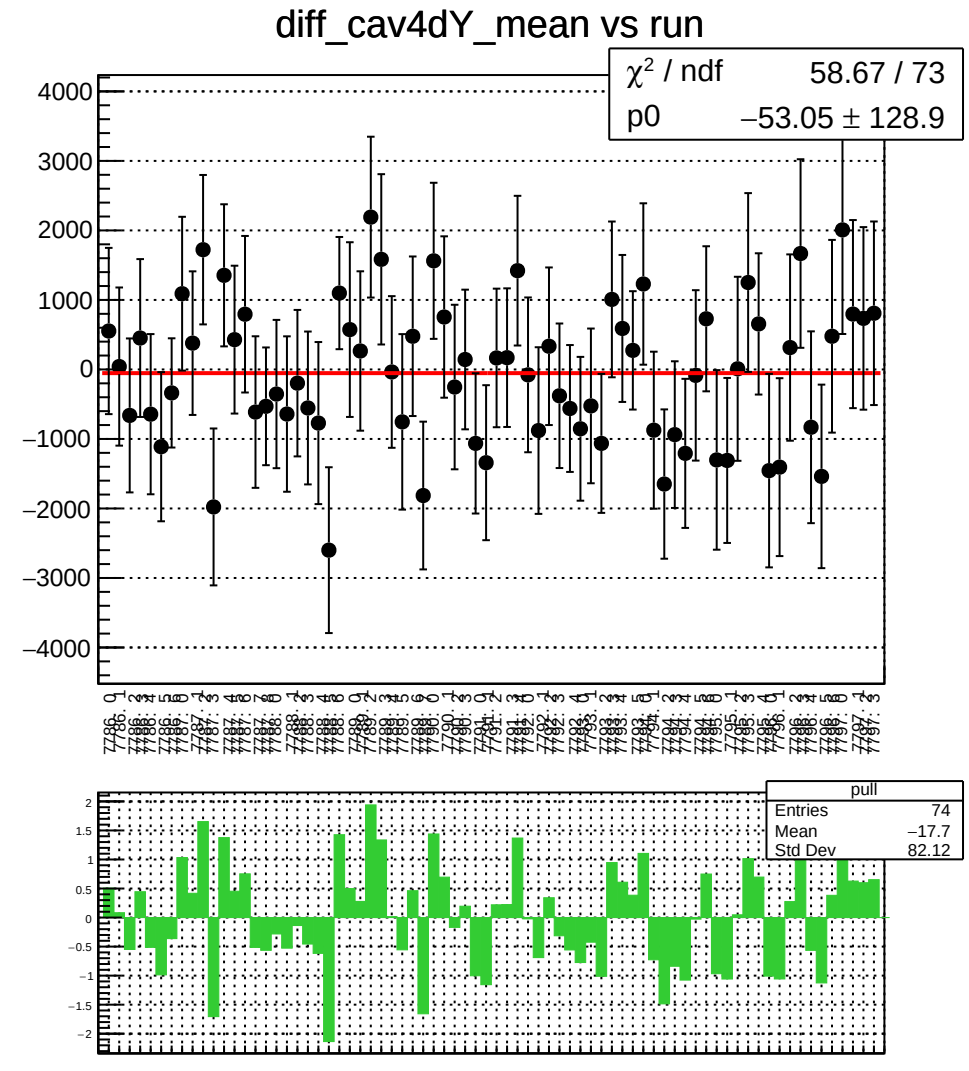

pull1D
Entries 74
Mean 0.003255
Std Dev 0.8947

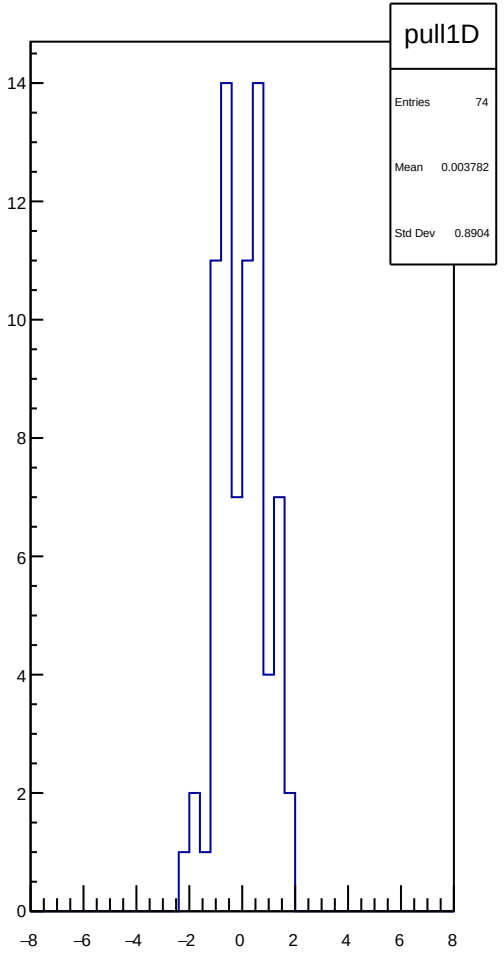

diff_cav4cY_rms vs run
×10^3
χ² / ndf 1.248e+04 / 73
p0 1.123e+05 ± 94.06
150
140
130
120
110
100

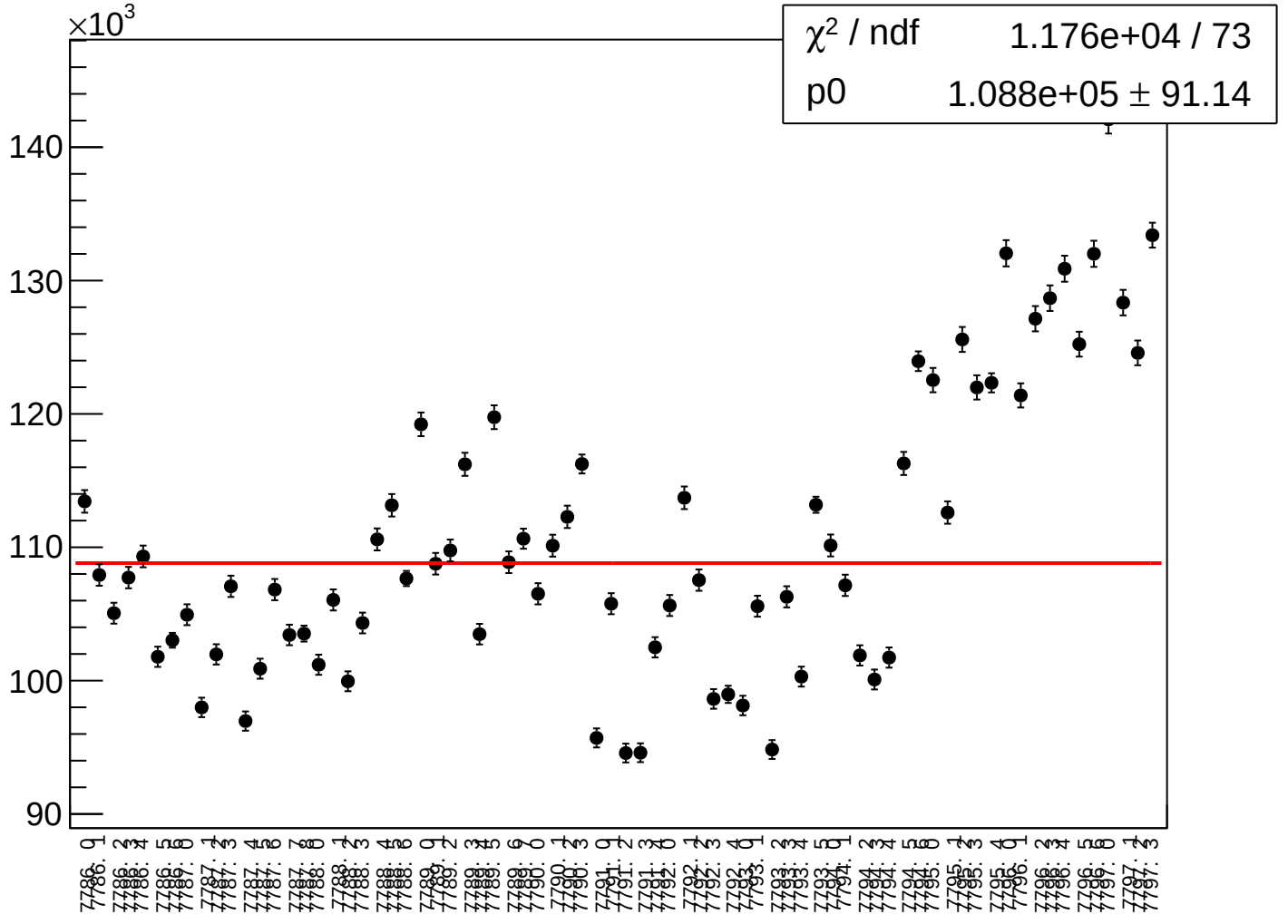

diff_cav4dX_mean vs run
χ² / ndf 71.92 / 73
p0 −1055 ± 634.4
pull
Entries 74
Mean 219.6
Std Dev 312.2

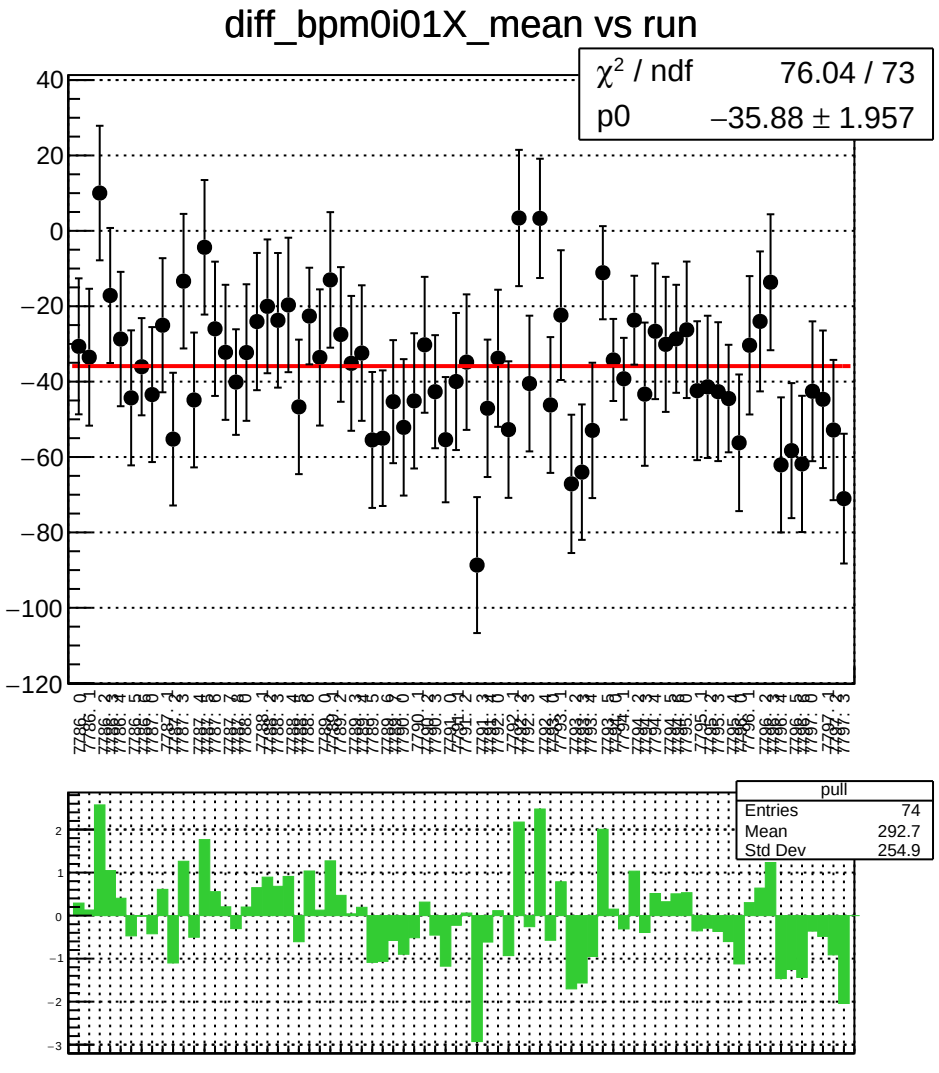

pull1D
Entries 74
Mean −0.001207
Std Dev 0.9858

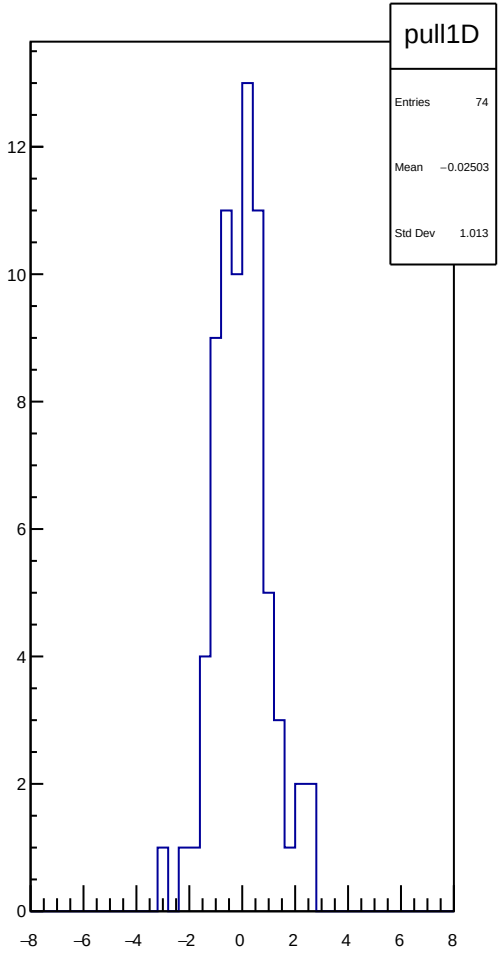

diff_cav4dX_rms vs run
×10^3
χ² / ndf 2192 / 73
p0 5.374e+05 ± 448.6
600
580
560
540
520
500

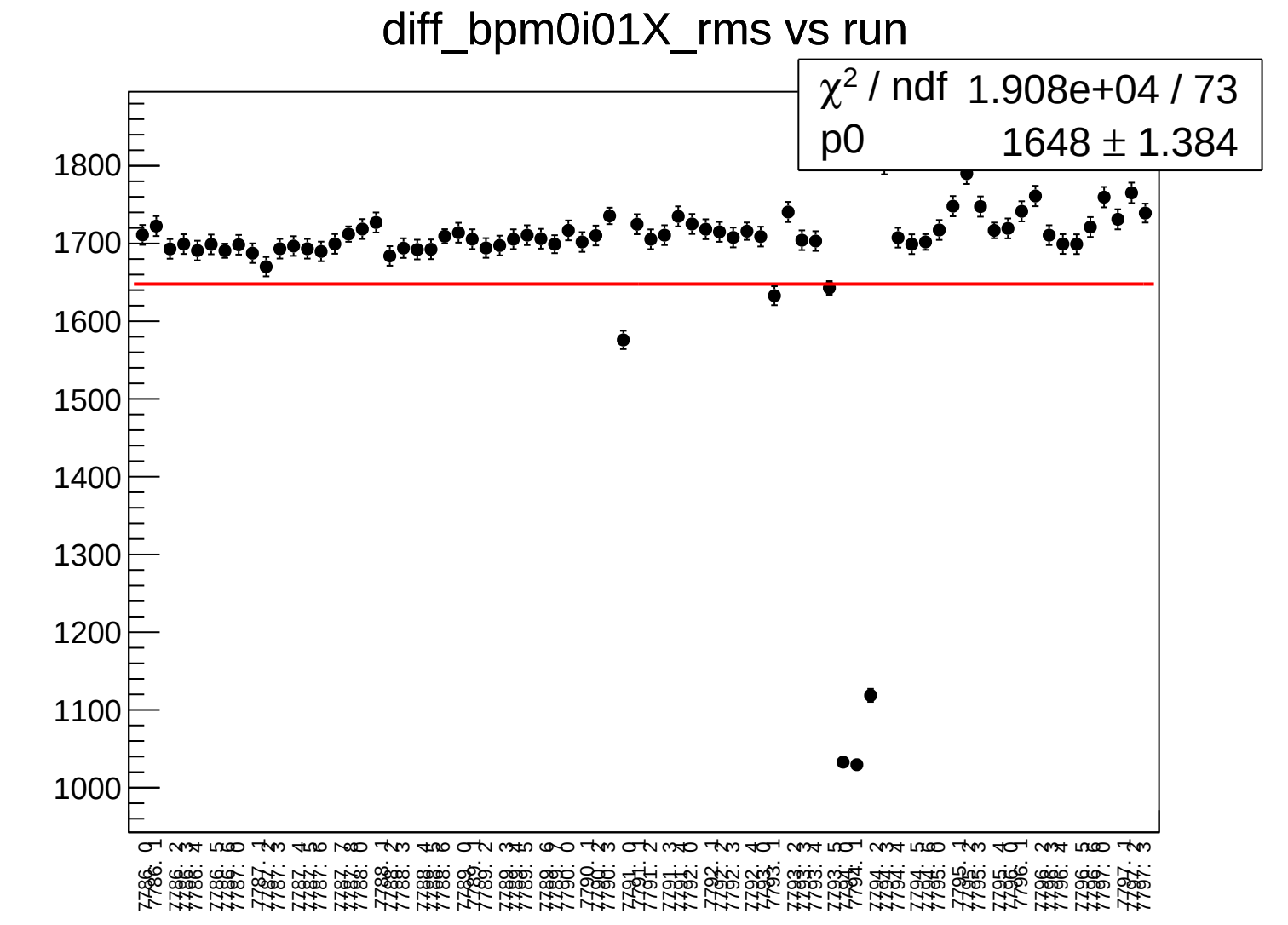

diff_cav4dY_mean vs run
χ² / ndf 58.67 / 73
p0 −53.05 ± 128.9
pull
Entries 74
Mean −17.7
Std Dev 82.12

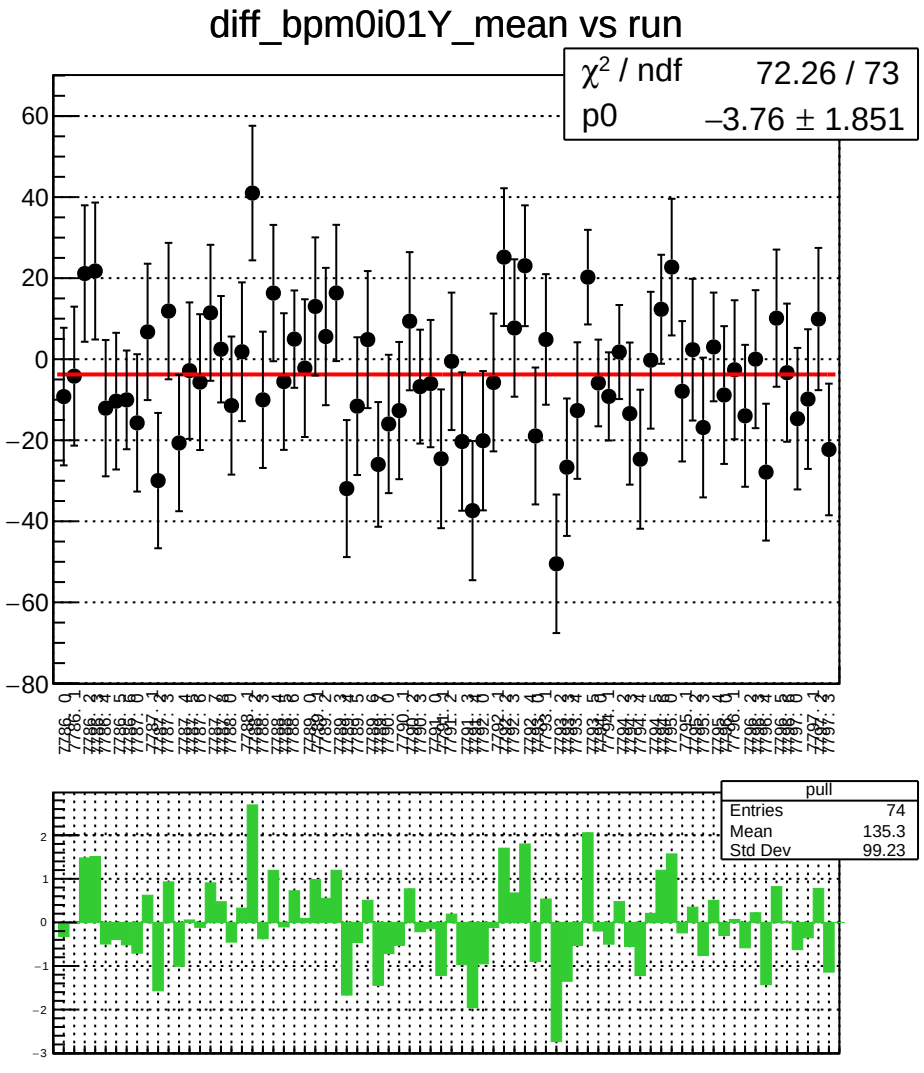

pull1D
Entries 74
Mean 0.003782
Std Dev 0.8904

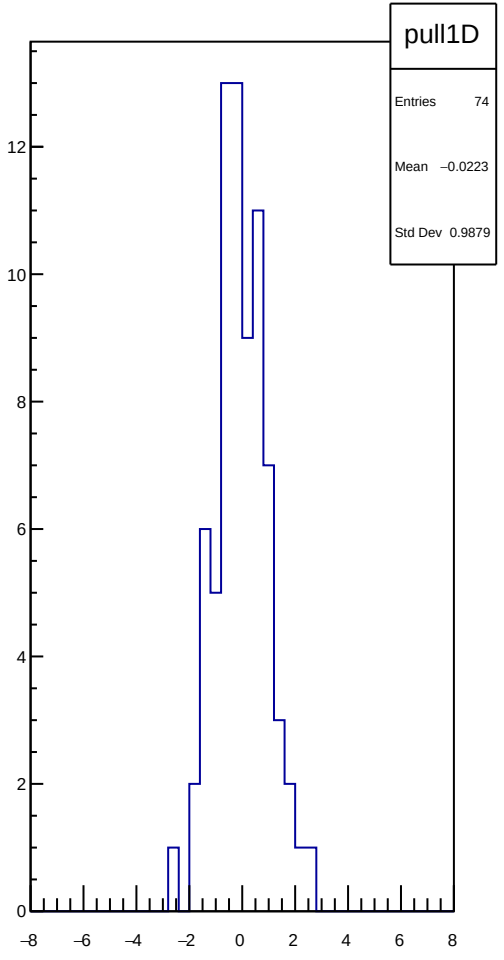

diff_cav4dY_rms vs run
×10^3
χ² / ndf 1.176e+04 / 73
p0 1.088e+05 ± 91.14
140
130
120
110
100
90

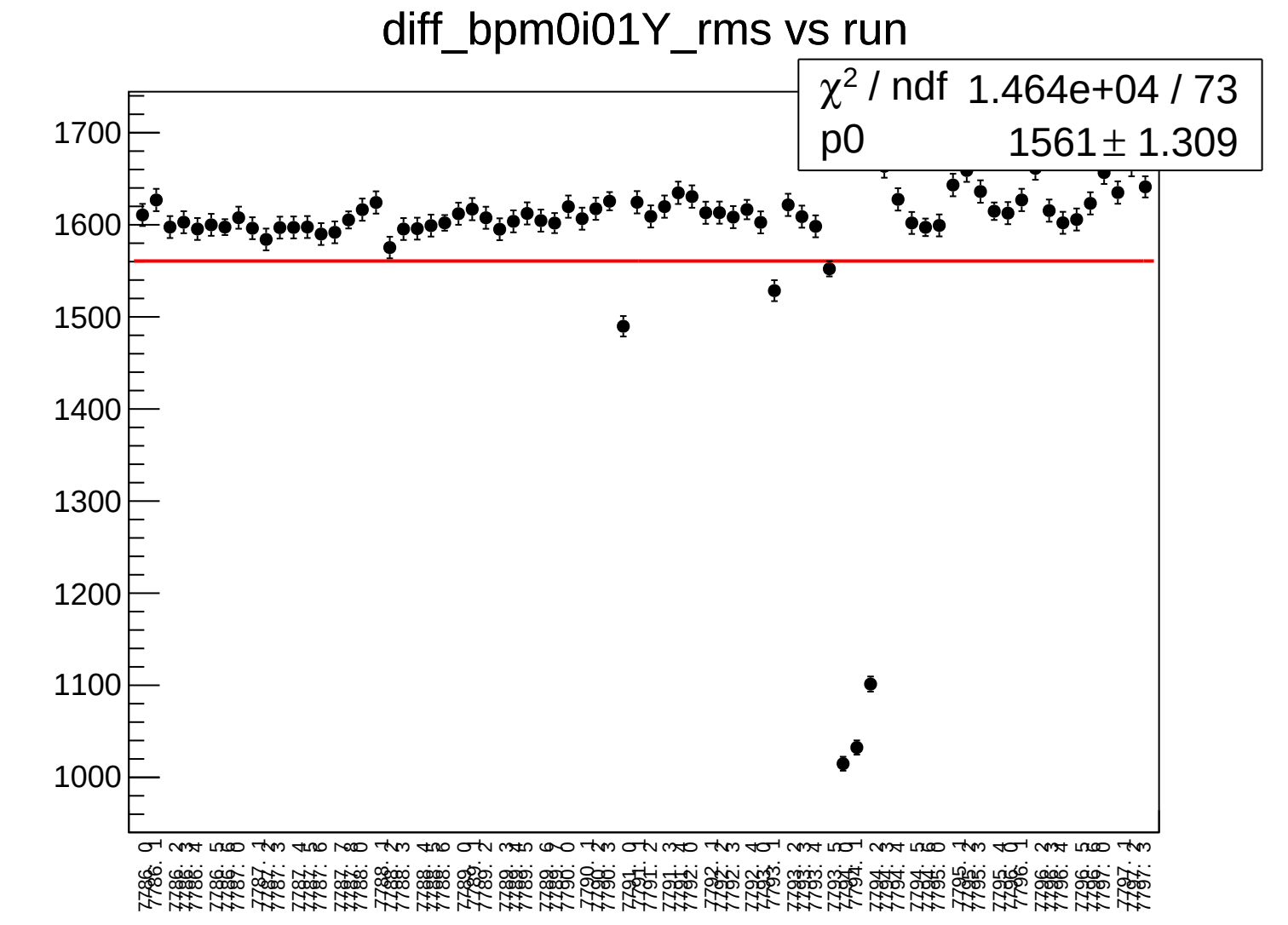

diff_bpm0i01X_mean vs run
χ² / ndf 76.04 / 73
p0 −35.88 ± 1.957
pull
Entries 74
Mean 292.7
Std Dev 254.9

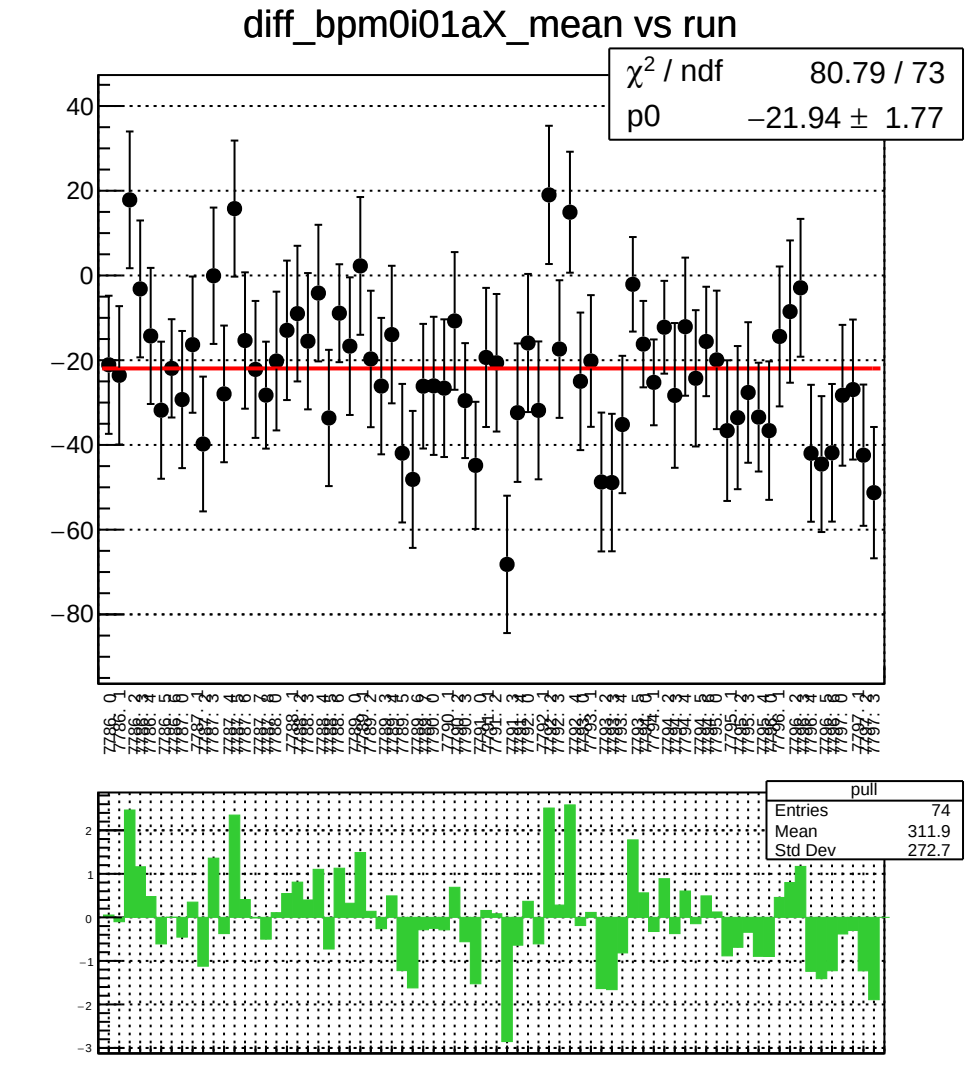

pull1D
Entries 74
Mean −0.02503
Std Dev 1.013

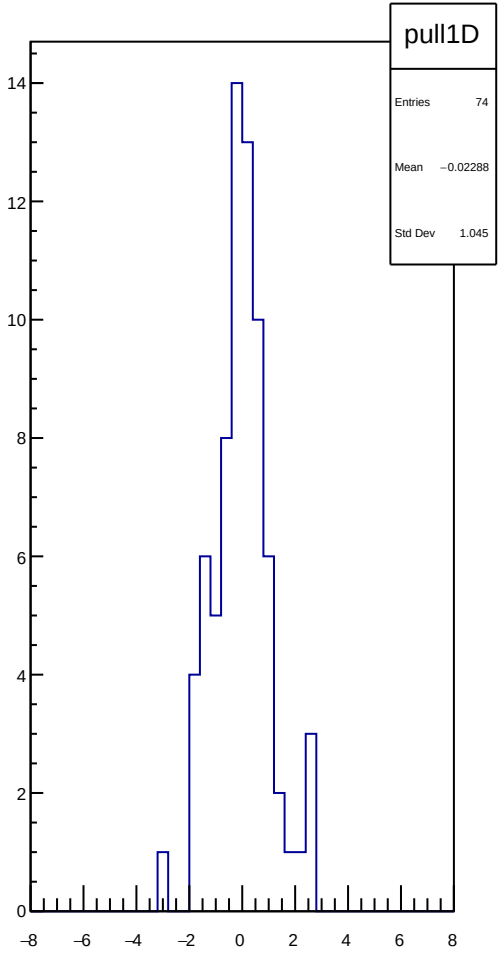

diff_bpm0i01X_rms vs run
χ^2 / ndf 1.908e+04 / 73
p0 1648 ± 1.384
1800
1700
1600
1500
1400
1300
1200
1100
1000

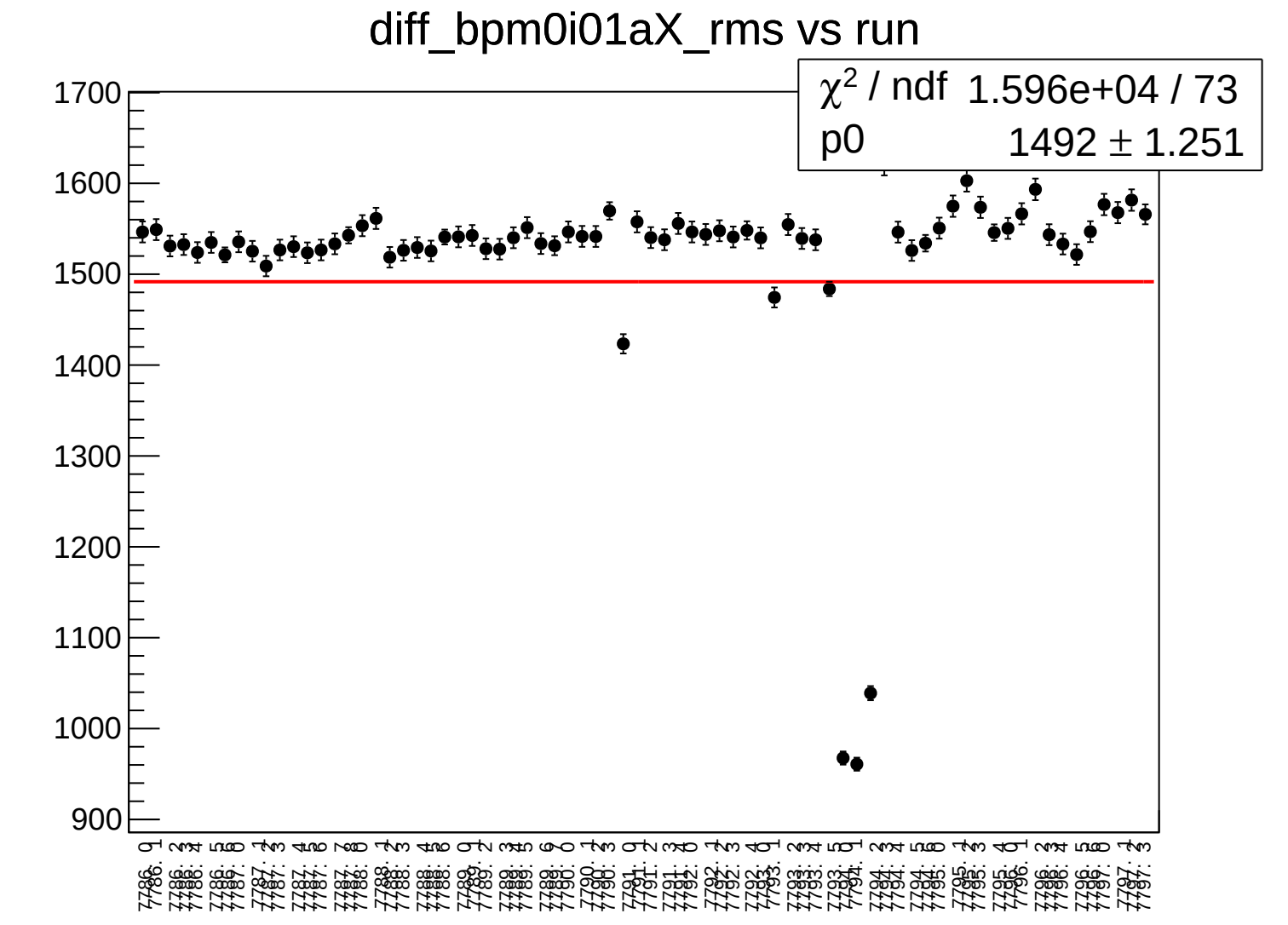

diff_bpm0i01Y_mean vs run
χ² / ndf 72.26 / 73
p0 −3.76 ± 1.851
pull
Entries 74
Mean 135.3
Std Dev 99.23

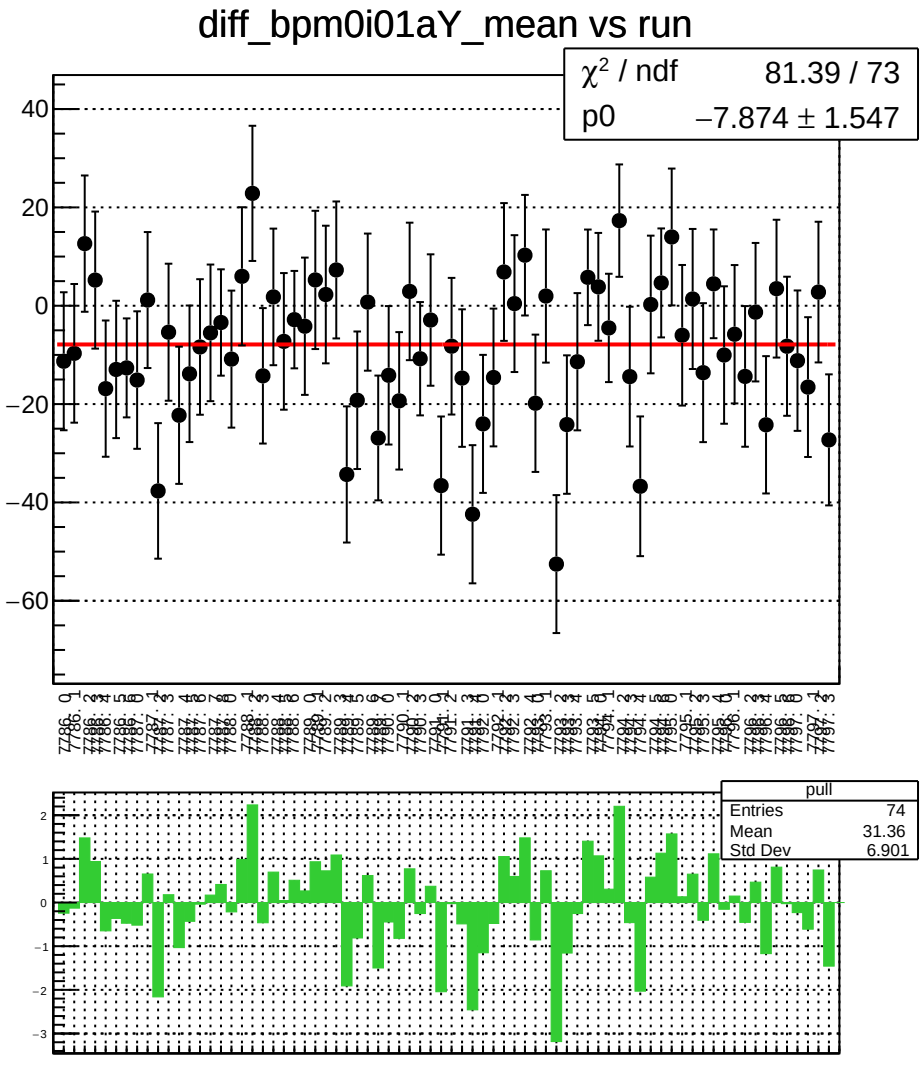

pull1D
Entries 74
Mean −0.0223
Std Dev 0.9879

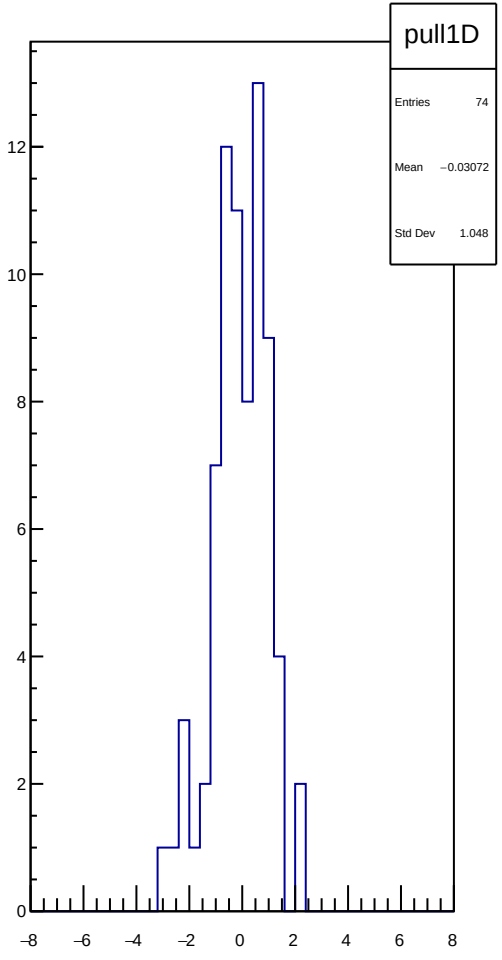

diff_bpm0i01Y_rms vs run
χ² / ndf 1.464e+04 / 73
p0 1561 ± 1.309
1700
1600
1500
1400
1300
1200
1100
1000

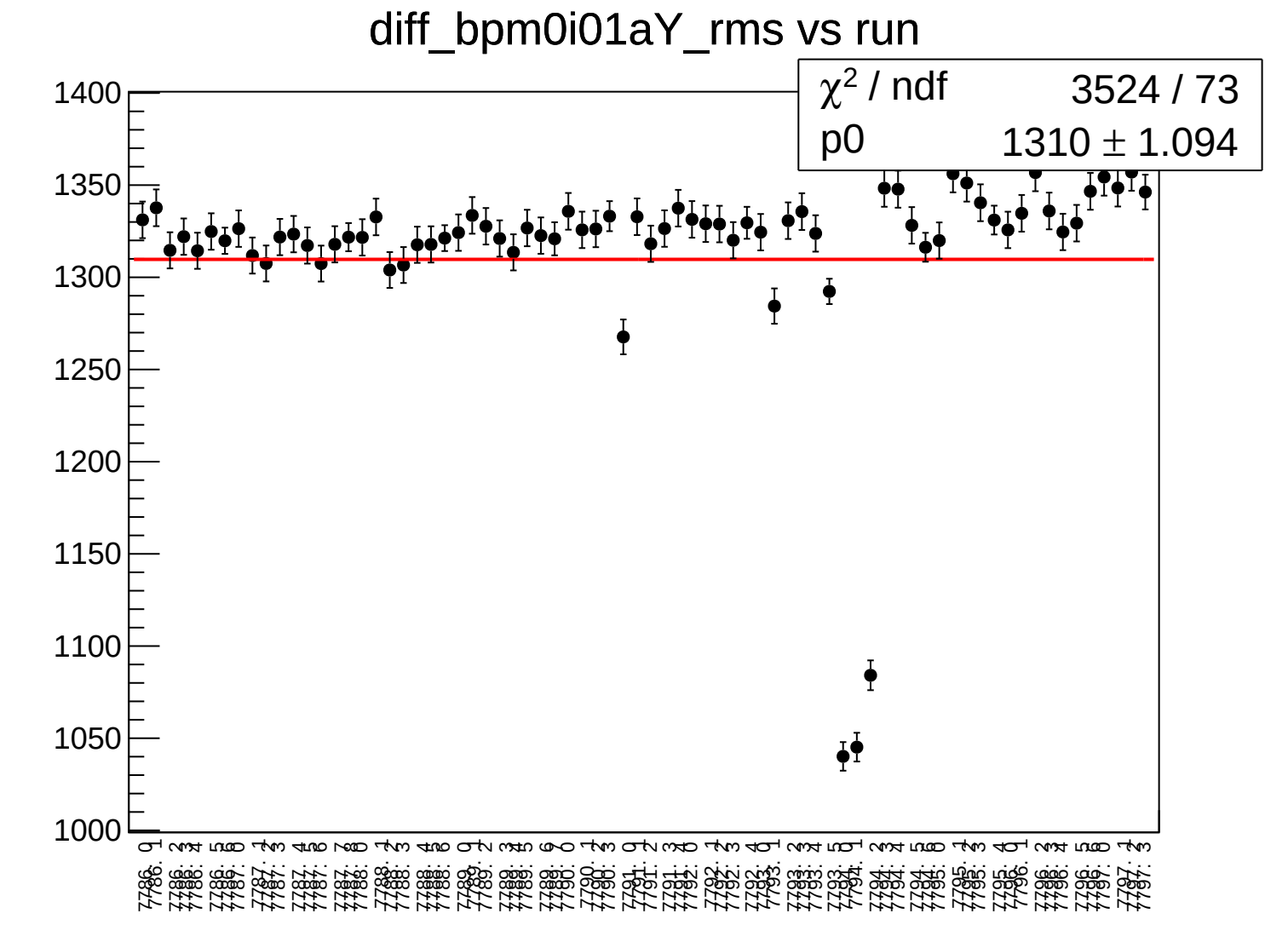

diff_bpm0i01aX_mean vs run
χ² / ndf 80.79 / 73
p0 −21.94 ± 1.77
pull
Entries 74
Mean 311.9
Std Dev 272.7

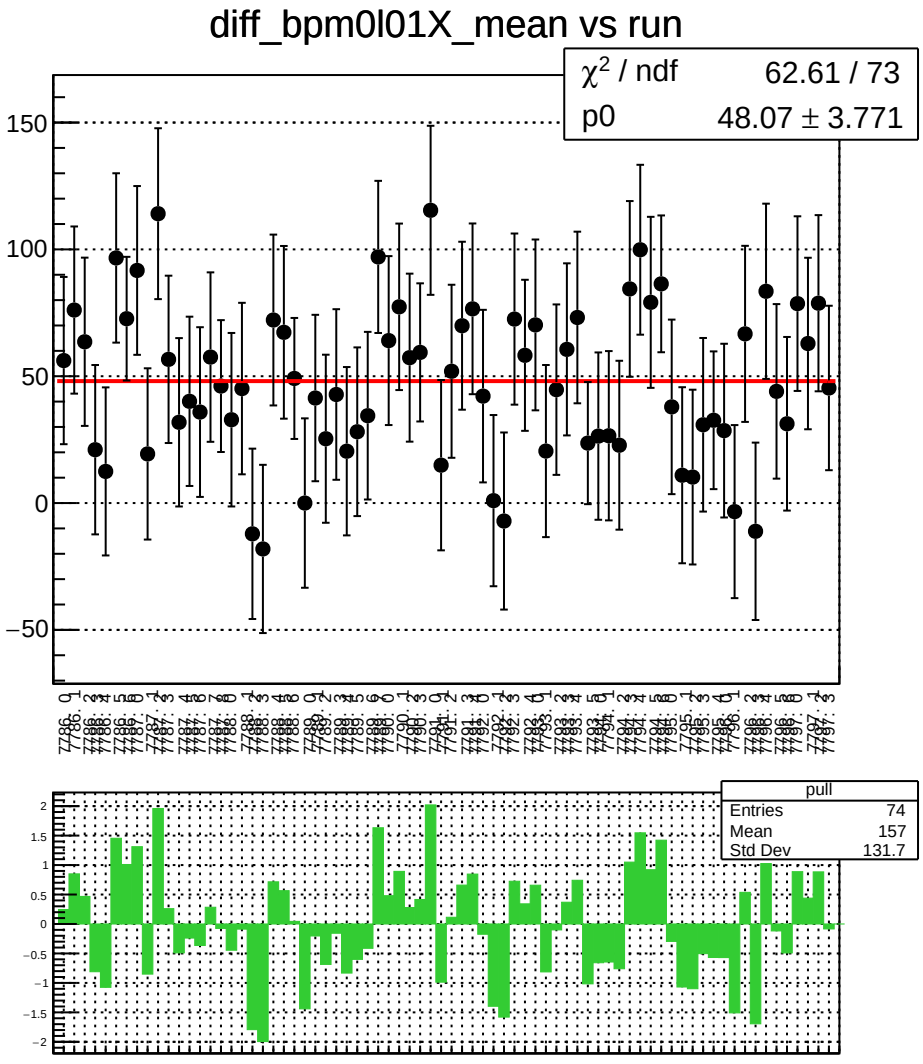

pull1D
Entries 74
Mean −0.02288
Std Dev 1.045

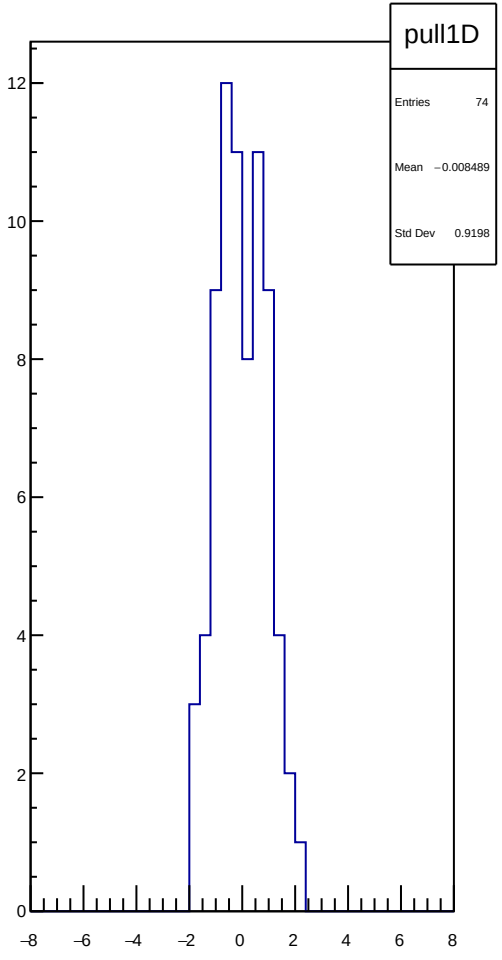

diff_bpm0i01aX_rms vs run
χ^2 / ndf 1.596e+04 / 73
p0 1492 ± 1.251
1700
1600
1500
1400
1300
1200
1100
1000
900

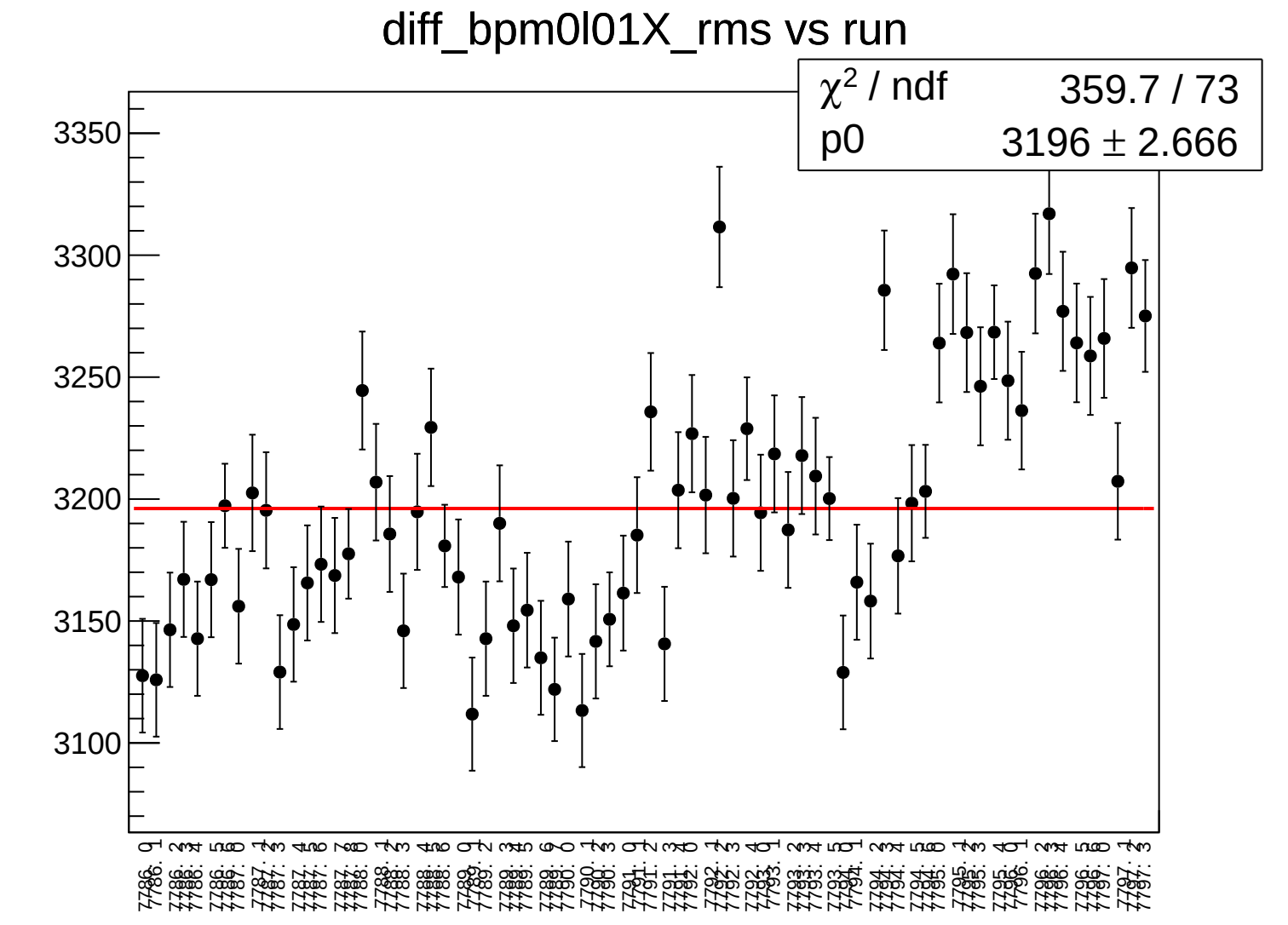

diff_bpm0i01aY_mean vs run
χ² / ndf 81.39 / 73
p0 −7.874 ± 1.547
pull
Entries 74
Mean 31.36
Std Dev 6.901

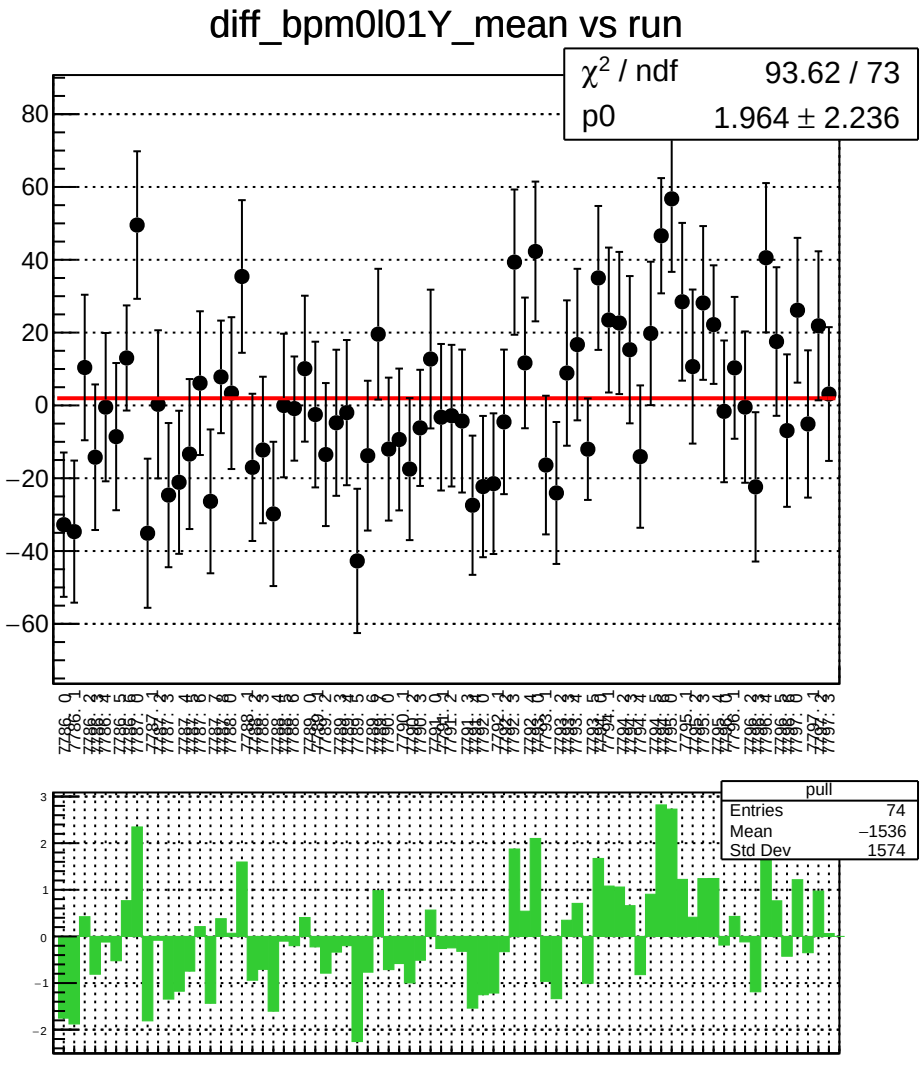

pull1D
Entries 74
Mean −0.03072
Std Dev 1.048

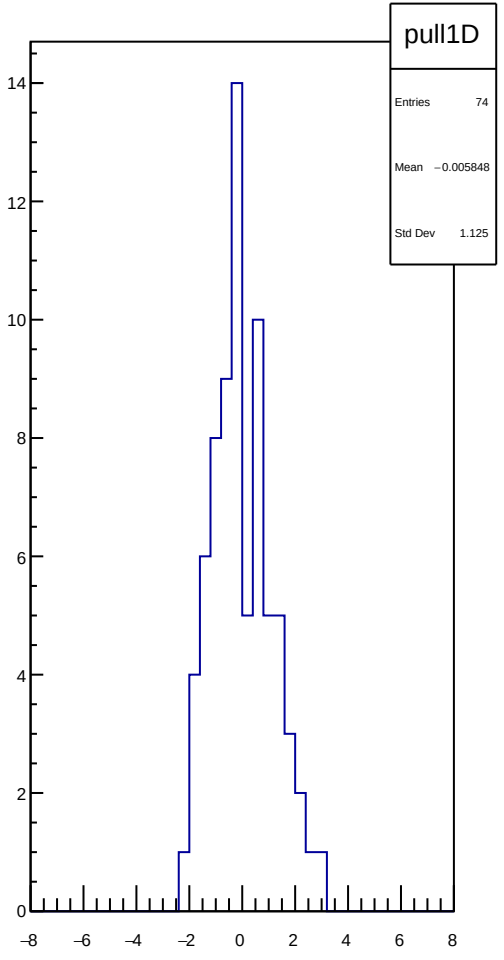

diff_bpm0i01aY_rms vs run
χ² / ndf 3524 / 73
p0 1310 ± 1.094
1400
1350
1300
1250
1200
1150
1100
1050
1000

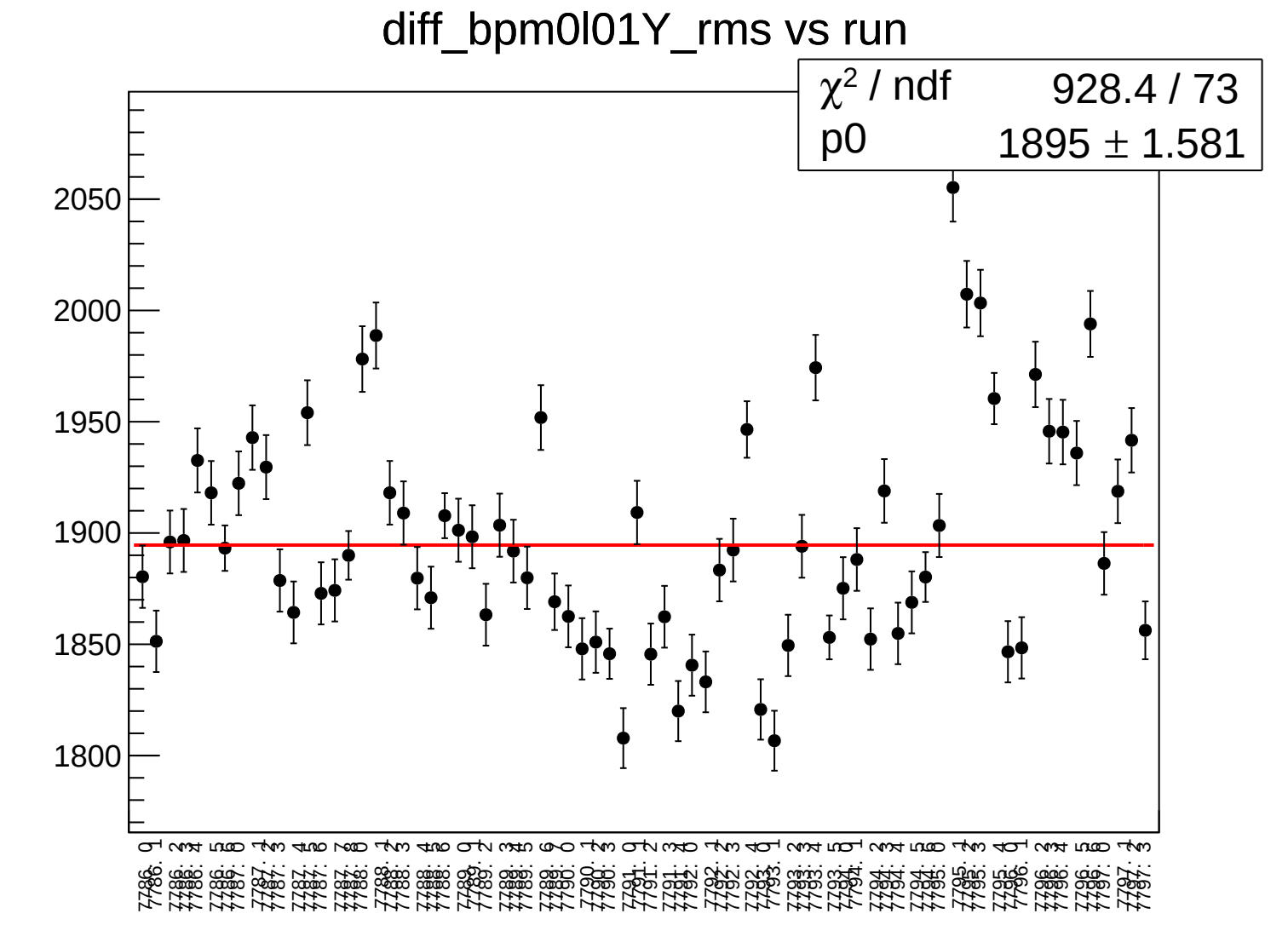

diff_bpm0l01X_mean vs run
χ^2 / ndf 62.61 / 73
p0 48.07 ± 3.771
150
100
50
0
−50
pull
Entries 74
Mean 157
Std Dev 131.7
2
1.5
1
0.5
0
−0.5
−1
−1.5
−2

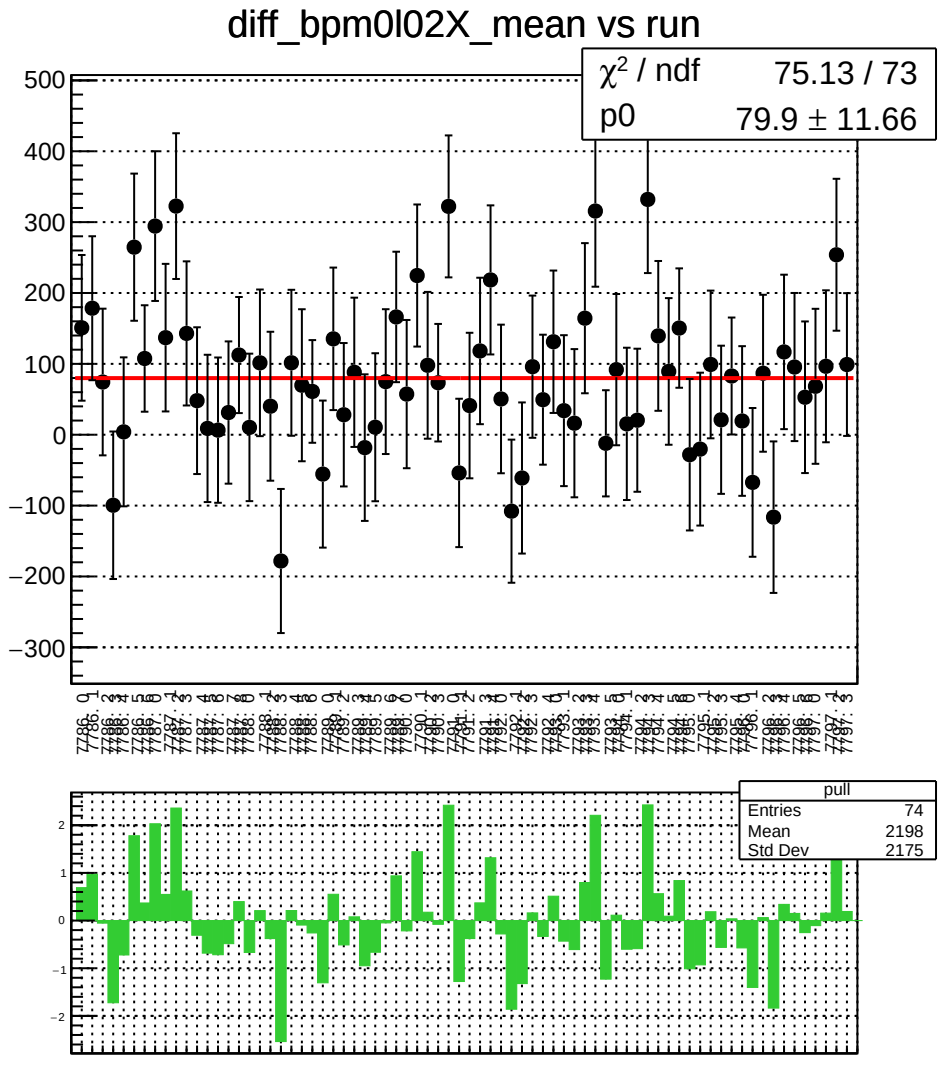

pull1D
Entries 74
Mean −0.008489
Std Dev 0.9198
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

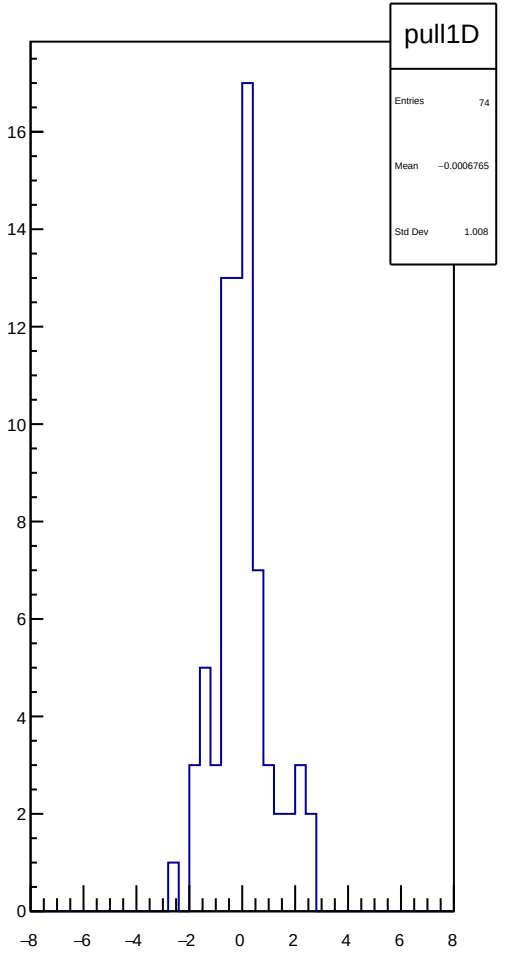

diff_bpm0l01X_rms vs run
χ² / ndf 359.7 / 73
p0 3196 ± 2.666
3350
3300
3250
3200
3150
3100

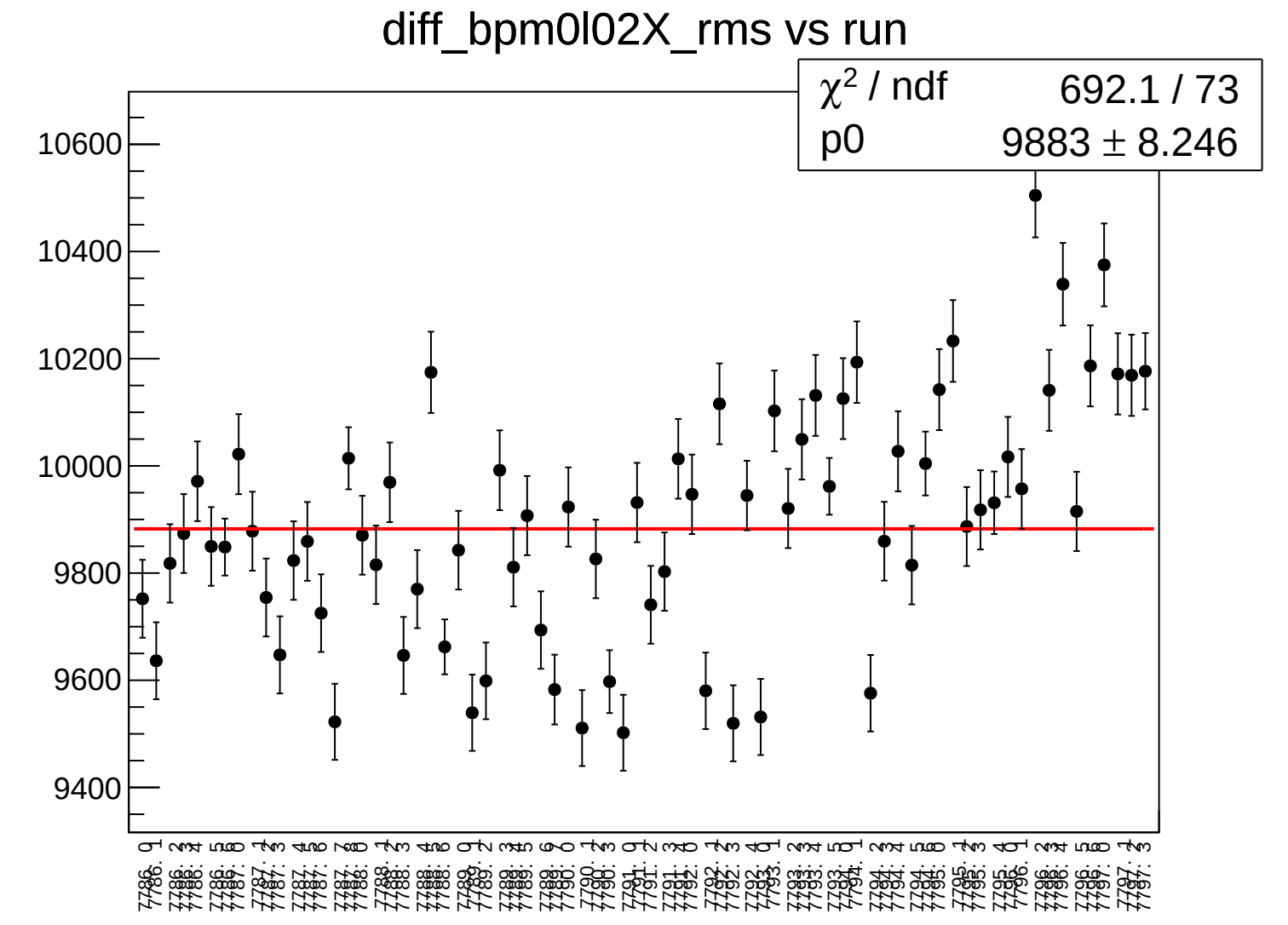

diff_bpm0l01Y_mean vs run
χ² / ndf 93.62 / 73
p0 1.964 ± 2.236
pull
Entries 74
Mean −1536
Std Dev 1574

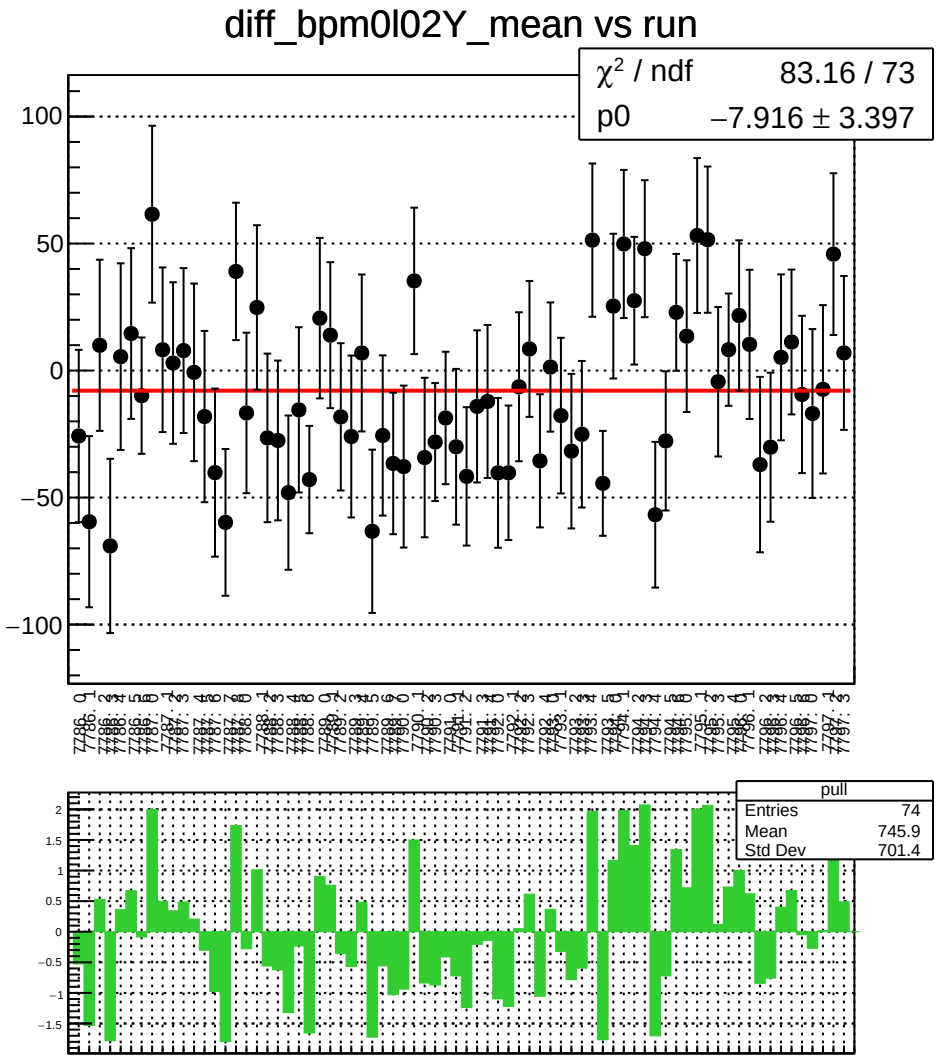

pull1D
Entries 74
Mean −0.005848
Std Dev 1.125

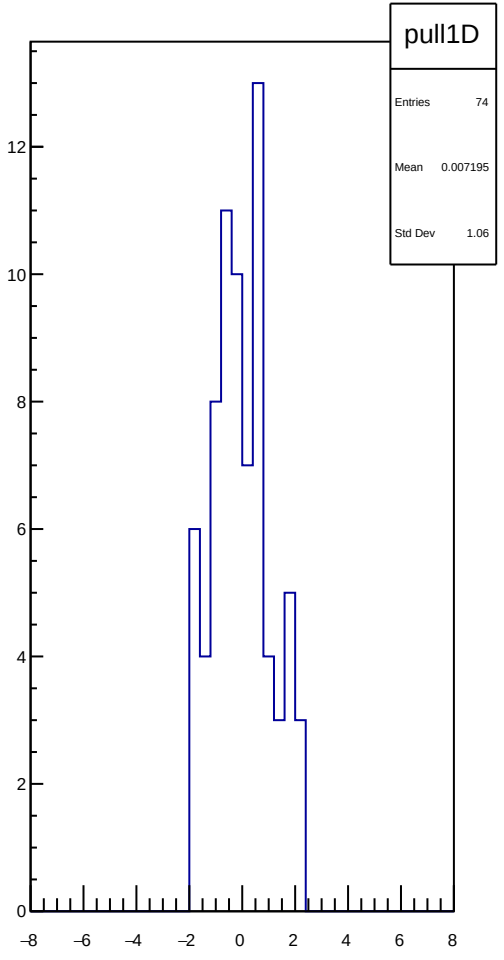

diff_bpm0l01Y_rms vs run
χ² / ndf 928.4 / 73
p0 1895 ± 1.581
2050
2000
1950
1900
1850
1800

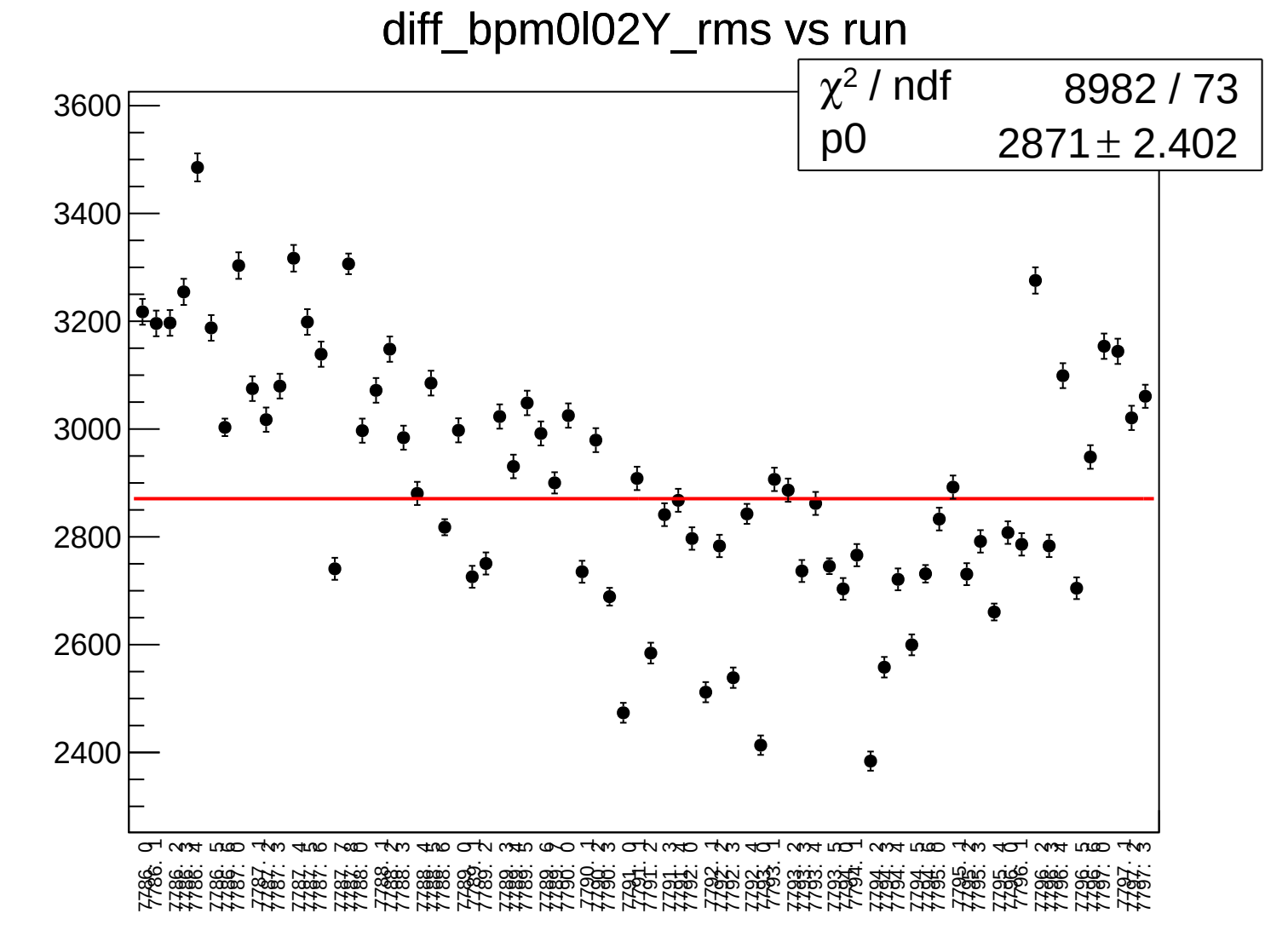

diff_bpm0l02X_mean vs run
χ² / ndf 75.13 / 73
p0 79.9 ± 11.66
pull
Entries 74
Mean 2198
Std Dev 2175

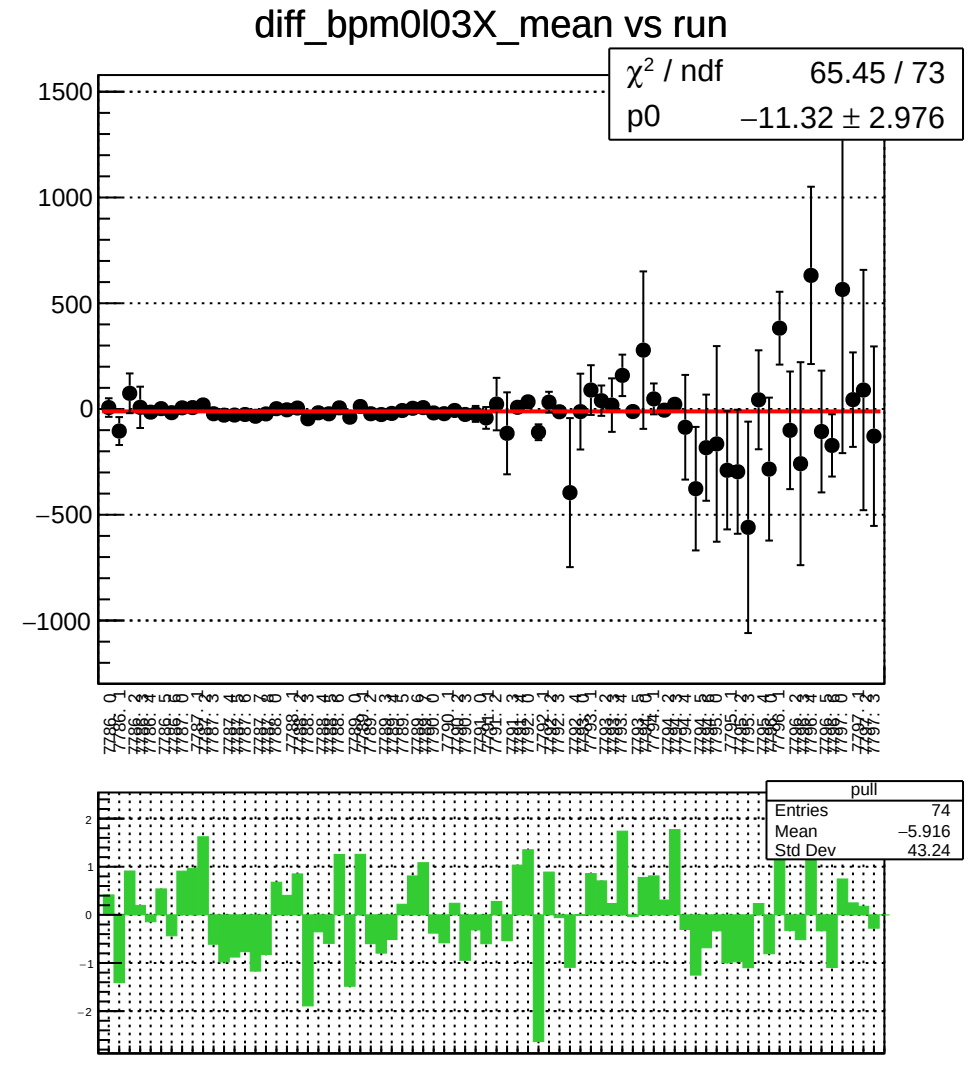

pull1D
Entries 74
Mean −0.0006765
Std Dev 1.008

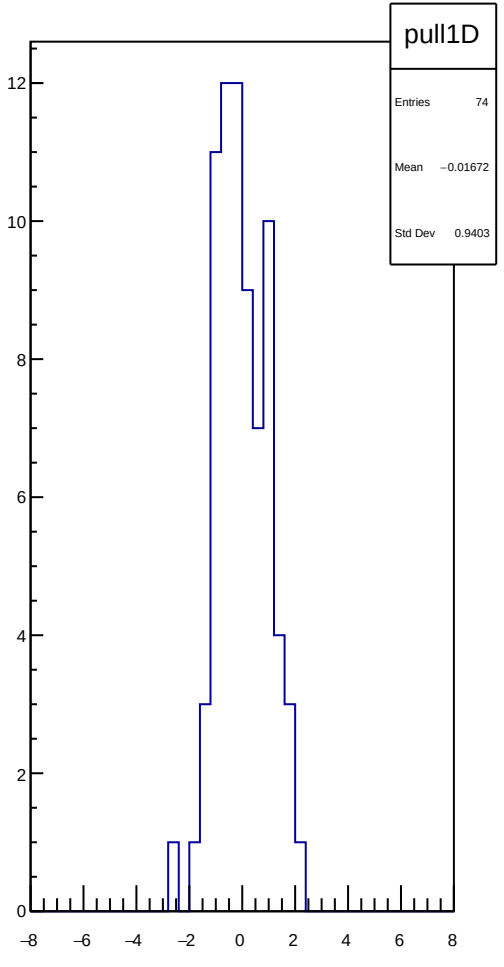

diff_bpm0l02X_rms vs run
χ² / ndf 692.1 / 73
p0 9883 ± 8.246
10600
10400
10200
10000
9800
9600
9400

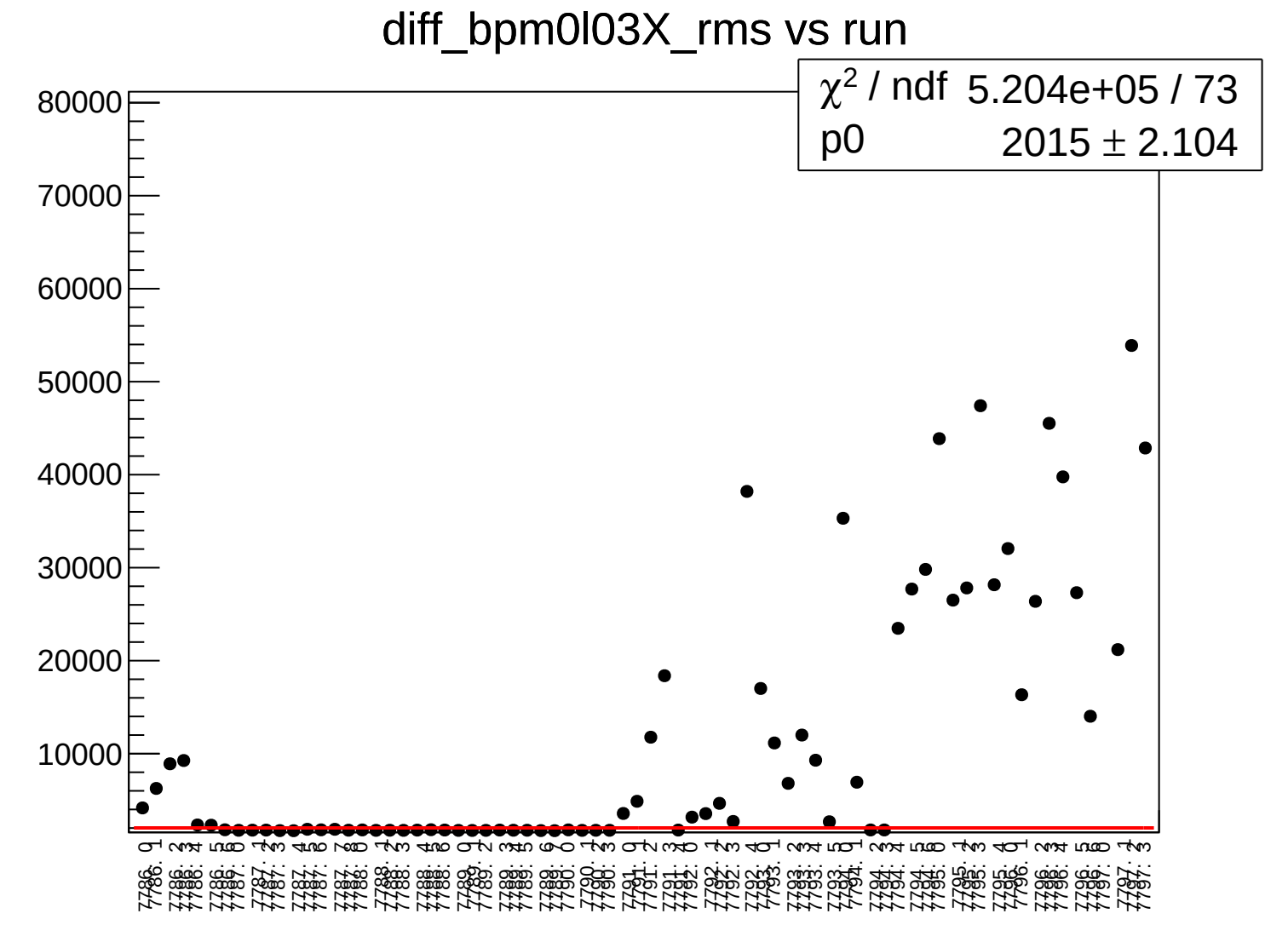

diff_bpm0l02Y_mean vs run
χ² / ndf 83.16 / 73
p0 −7.916 ± 3.397
pull
Entries 74
Mean 745.9
Std Dev 701.4

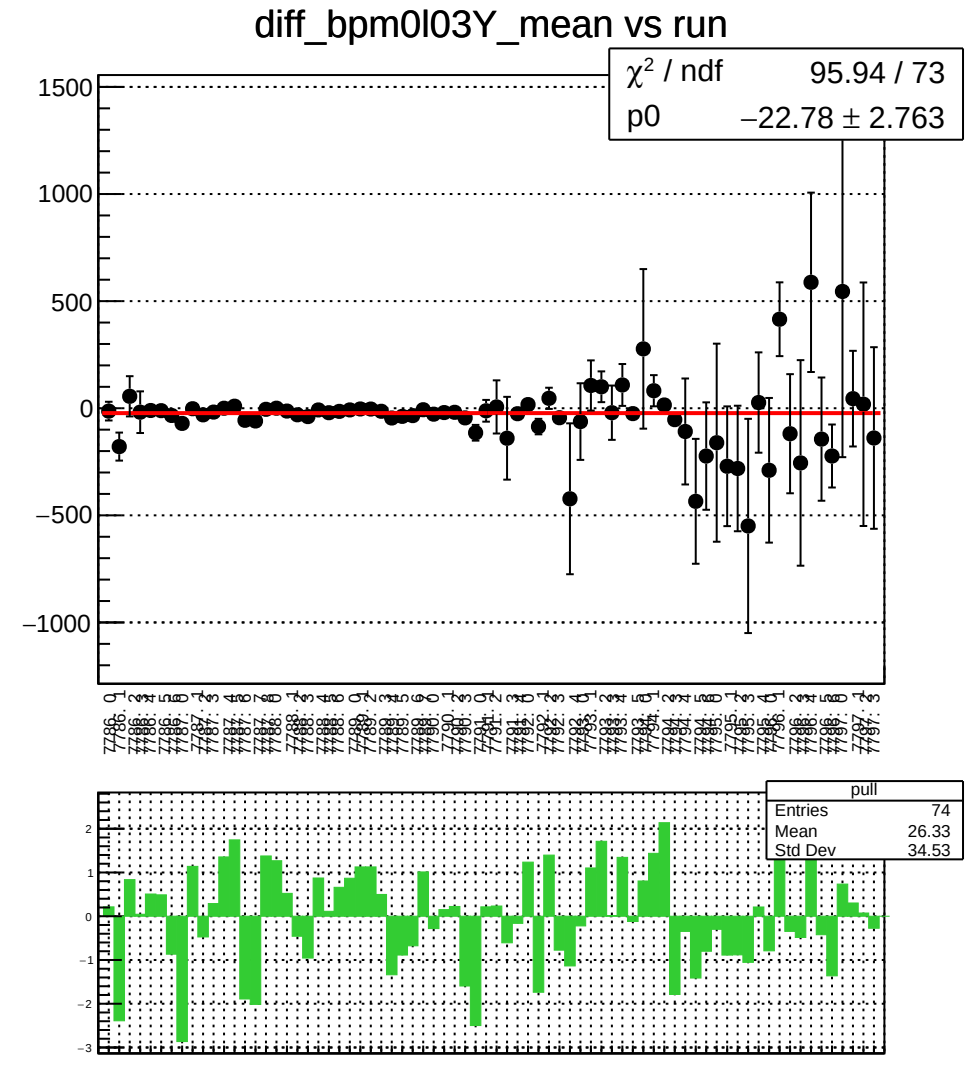

pull1D
Entries 74
Mean 0.007195
Std Dev 1.06

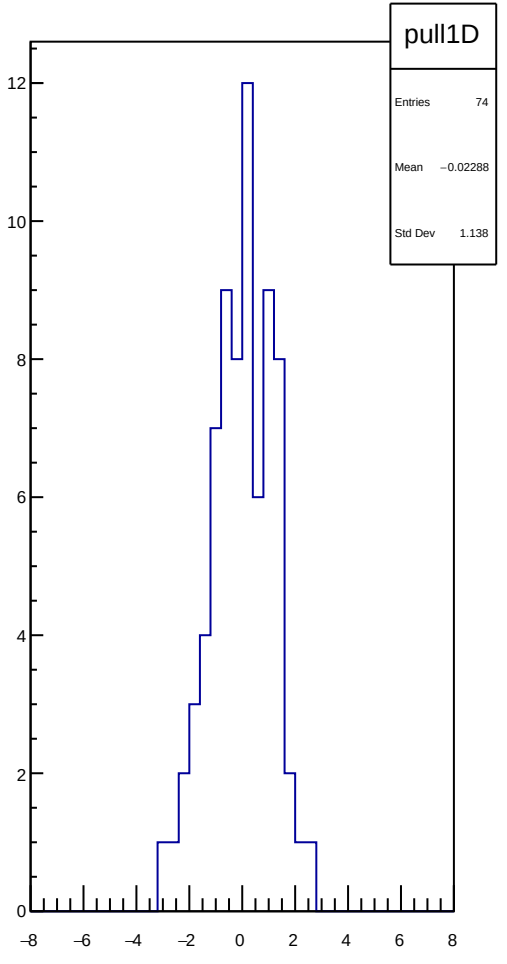

diff_bpm0l02Y_rms vs run
χ² / ndf 8982 / 73
p0 2871 ± 2.402
3600
3400
3200
3000
2800
2600
2400

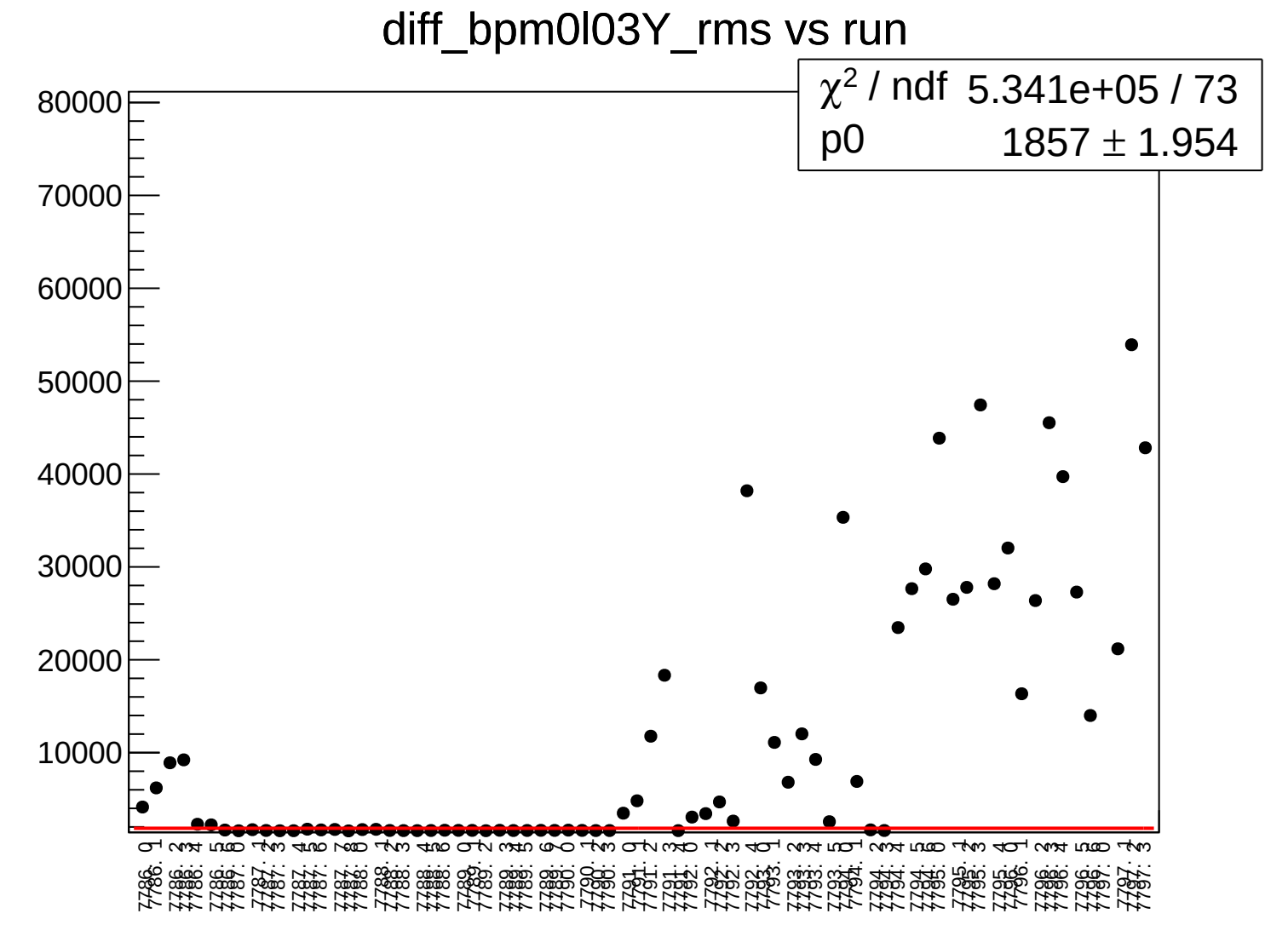

diff_bpm0l03X_mean vs run
χ² / ndf 65.45 / 73
p0 −11.32 ± 2.976
pull
Entries 74
Mean −5.916
Std Dev 43.24

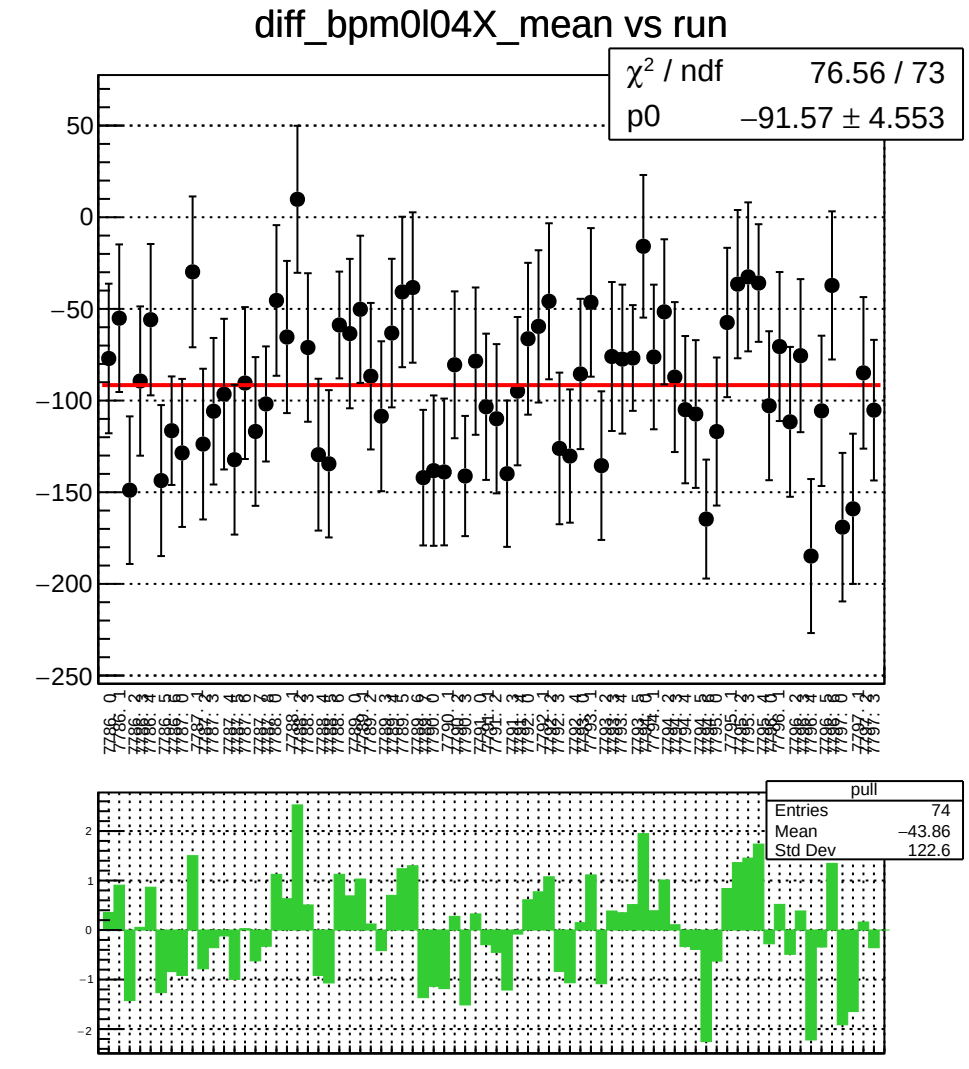

pull1D
Entries 74
Mean −0.01672
Std Dev 0.9403

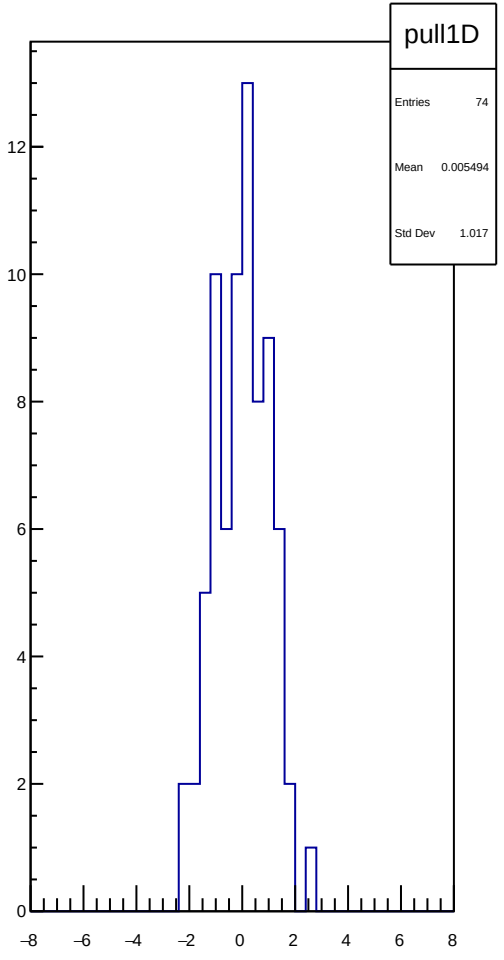

diff_bpm0l03X_rms vs run
χ^2 / ndf 5.204e+05 / 73
p0 2015 ± 2.104
80000
70000
60000
50000
40000
30000
20000
10000

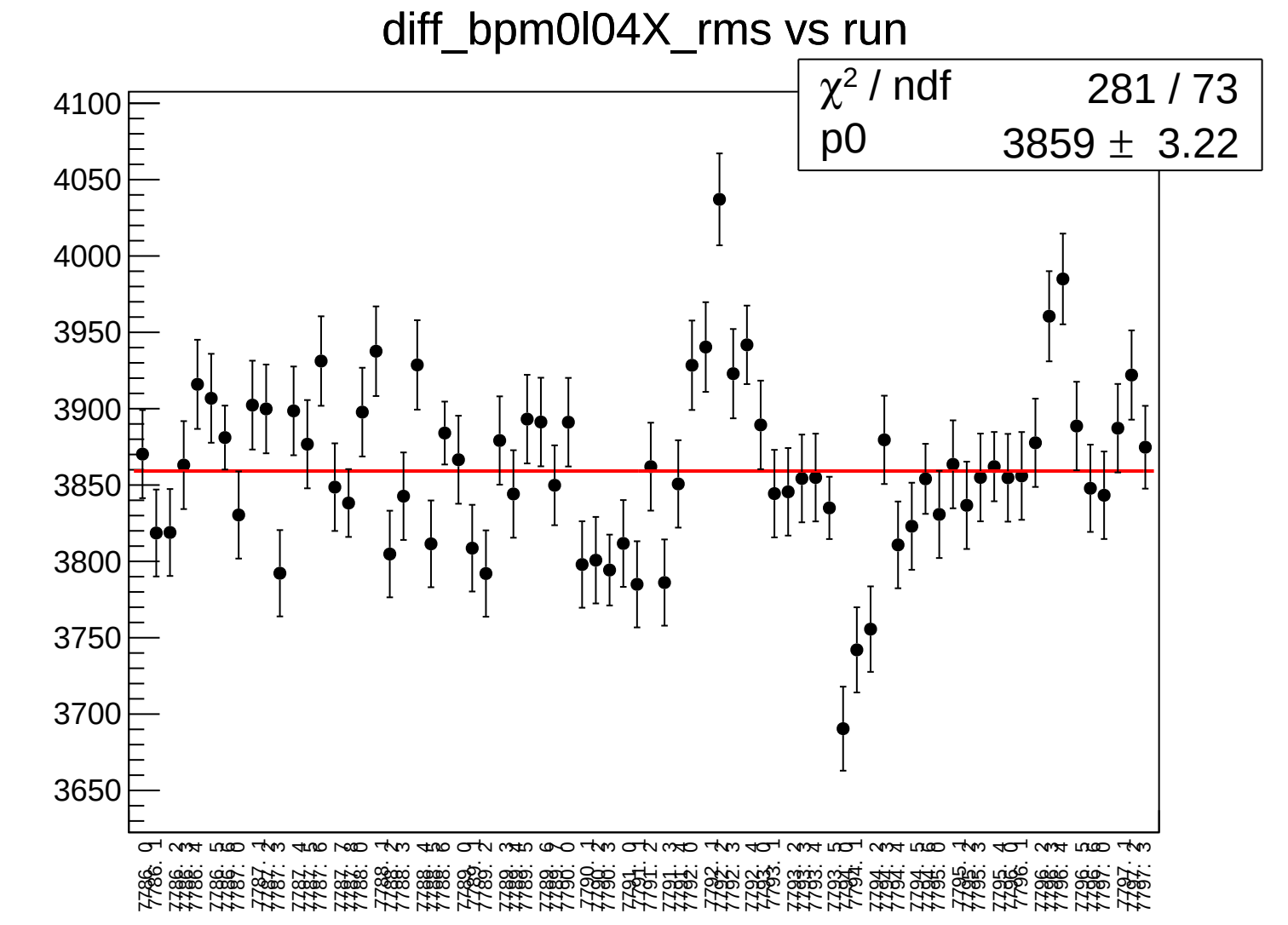

diff_bpm0l03Y_mean vs run
χ² / ndf 95.94 / 73
p0 −22.78 ± 2.763
1500
1000
500
0
−500
−1000
pull
Entries 74
Mean 26.33
Std Dev 34.53
2
1
0
−1
−2
−3

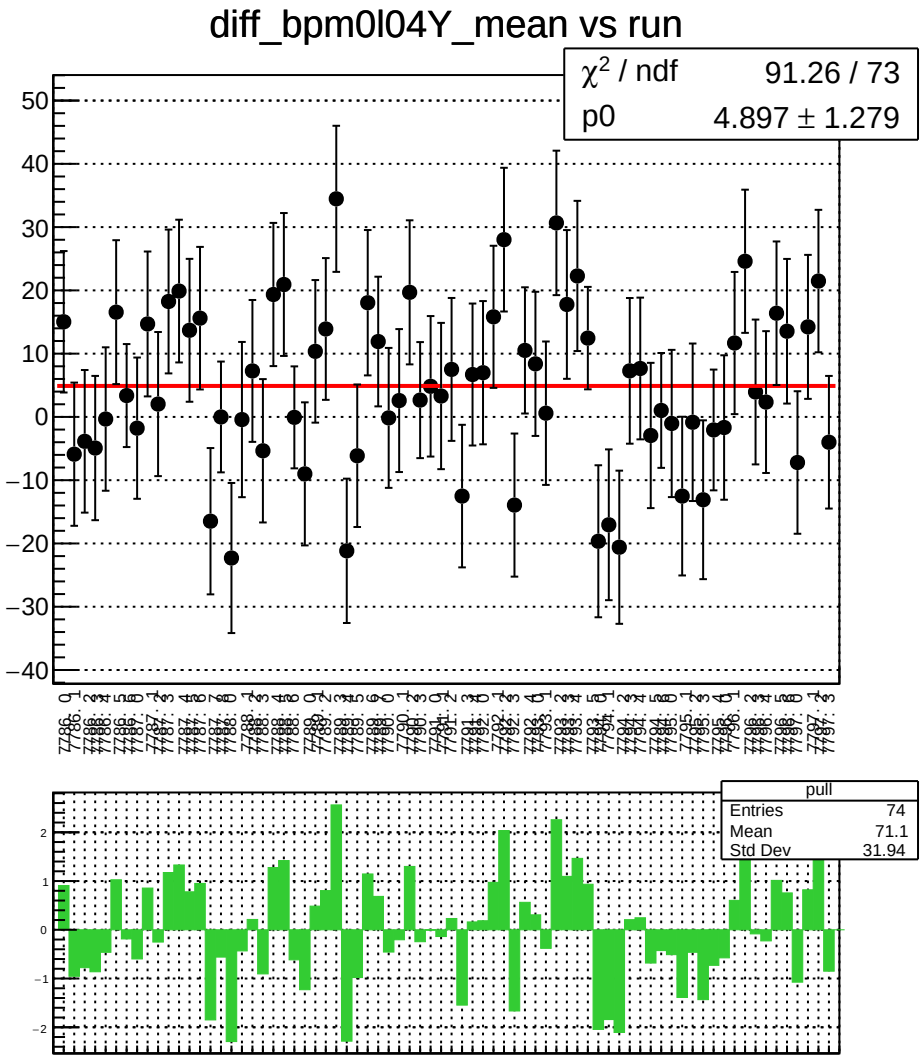

pull1D
Entries 74
Mean −0.02288
Std Dev 1.138
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

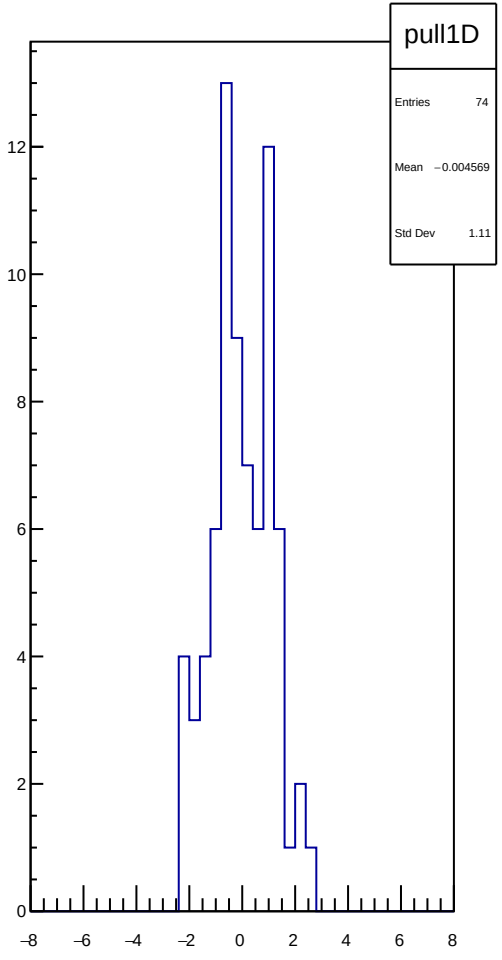

diff_bpm0l03Y_rms vs run
χ^2 / ndf 5.341e+05 / 73
p0 1857 ± 1.954
80000
70000
60000
50000
40000
30000
20000
10000

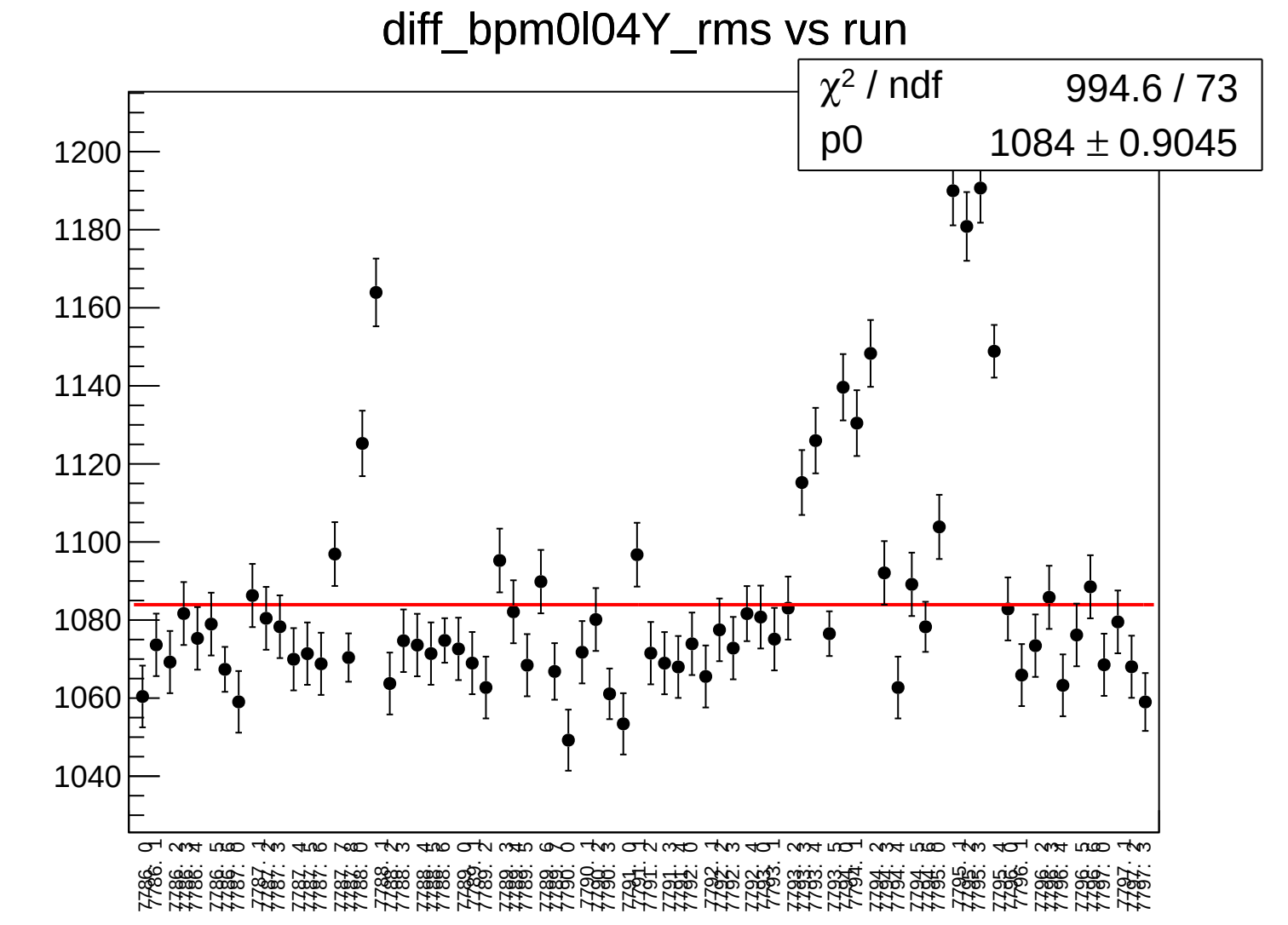

diff_bpm0l04X_mean vs run
χ² / ndf 76.56 / 73
p0 −91.57 ± 4.553
pull
Entries 74
Mean −43.86
Std Dev 122.6

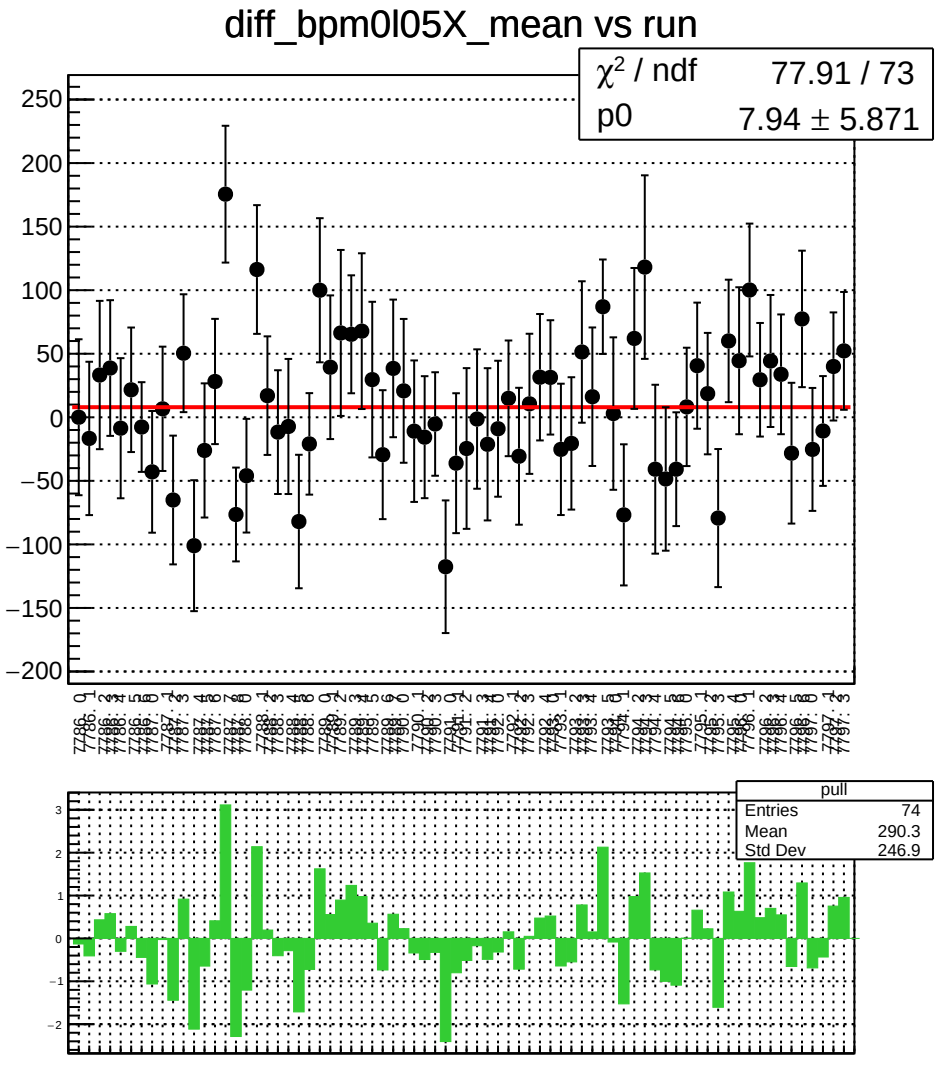

pull1D
Entries 74
Mean 0.005494
Std Dev 1.017

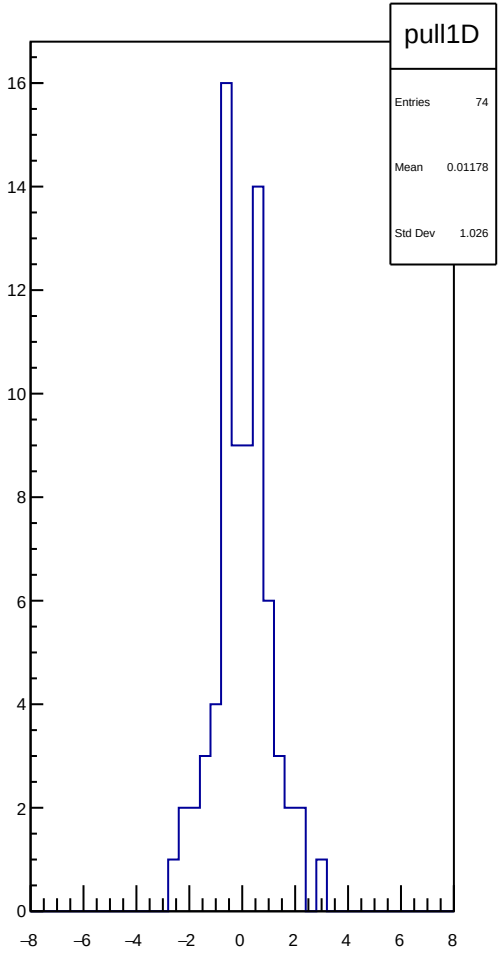

diff_bpm0l04X_rms vs run
χ² / ndf 281 / 73
p0 3859 ± 3.22
4100
4050
4000
3950
3900
3850
3800
3750
3700
3650

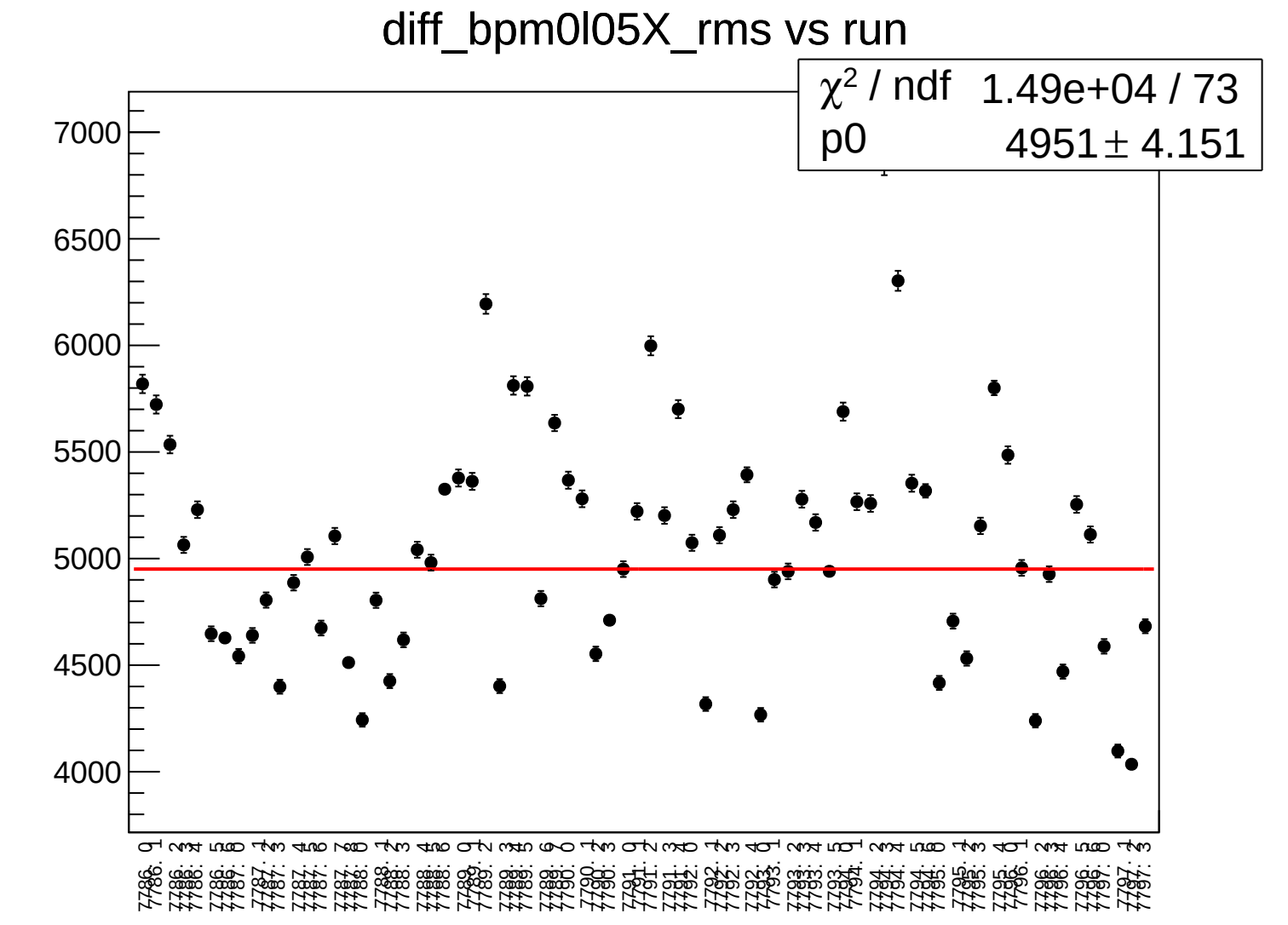

diff_bpm0l04Y_mean vs run
χ² / ndf 91.26 / 73
p0 4.897 ± 1.279
pull
Entries 74
Mean 71.1
Std Dev 31.94

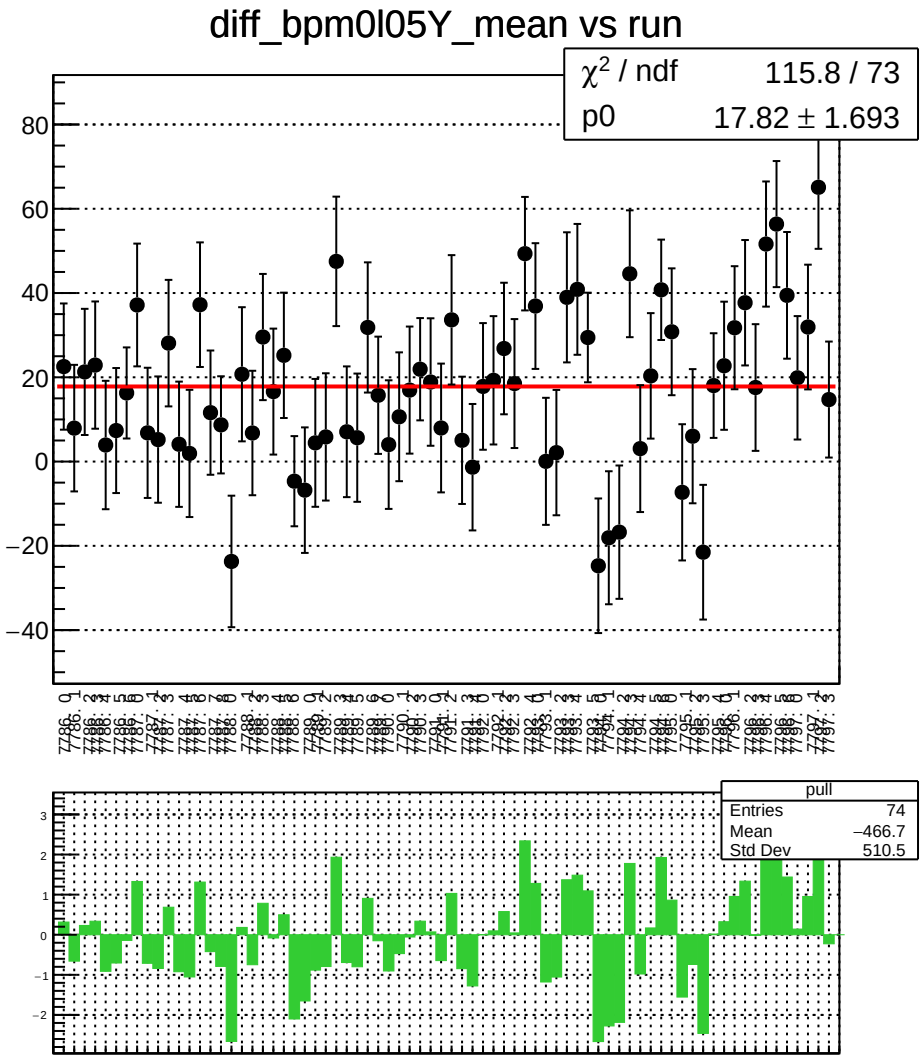

pull1D
Entries 74
Mean −0.004569
Std Dev 1.11

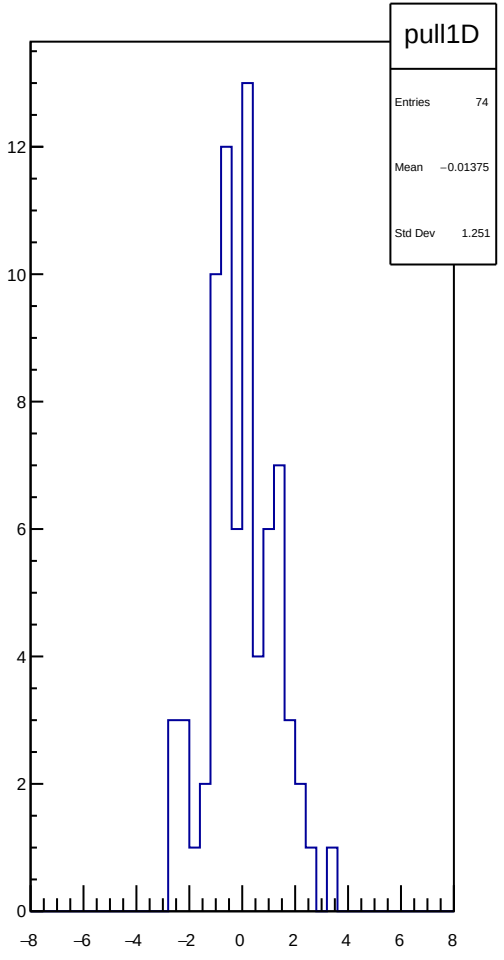

diff_bpm0l04Y_rms vs run
χ² / ndf 994.6 / 73
p0 1084 ± 0.9045
1200
1180
1160
1140
1120
1100
1080
1060
1040

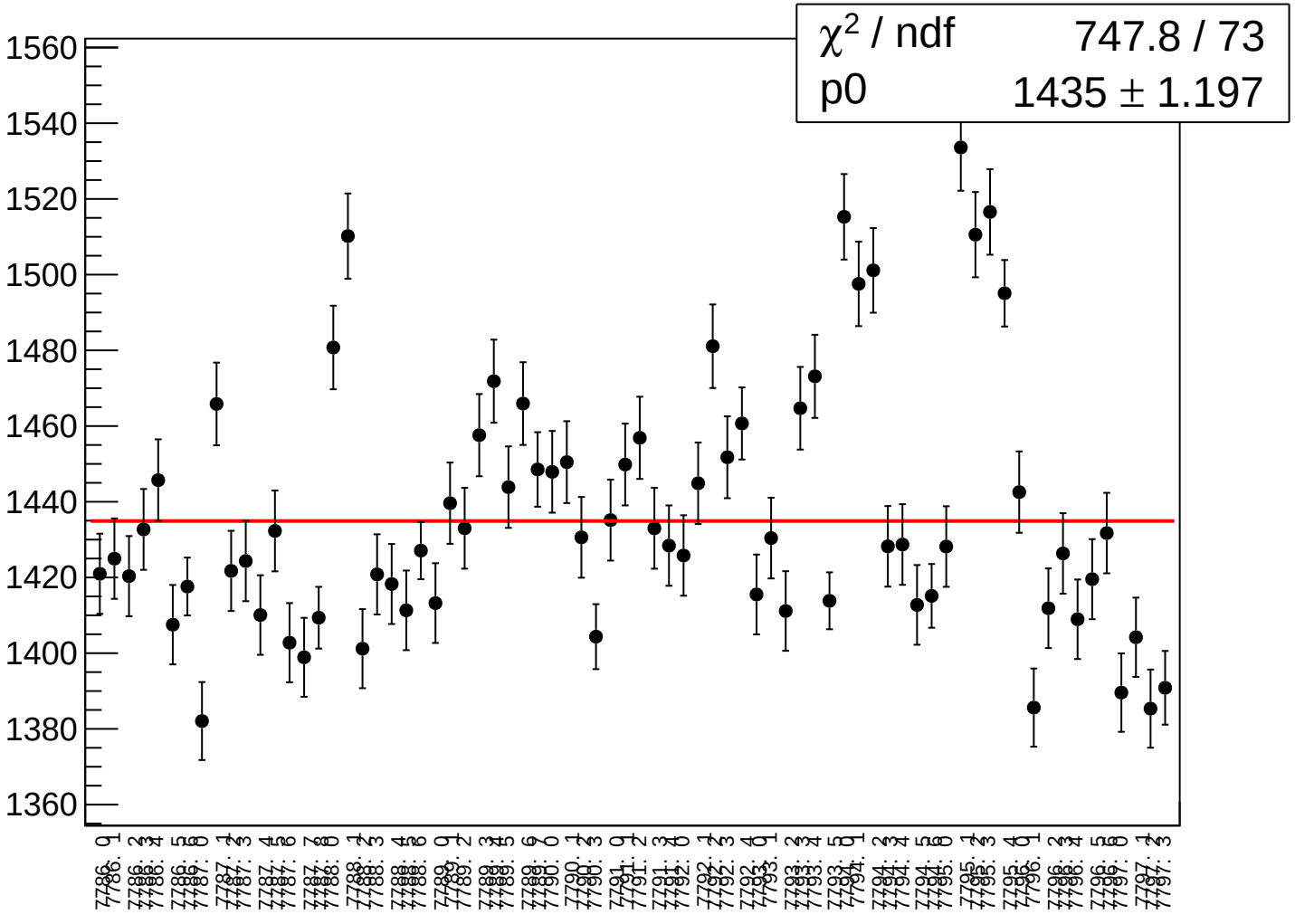

diff_bpm0l05X_mean vs run
χ² / ndf 77.91 / 73
p0 7.94 ± 5.871
pull
Entries 74
Mean 290.3
Std Dev 246.9

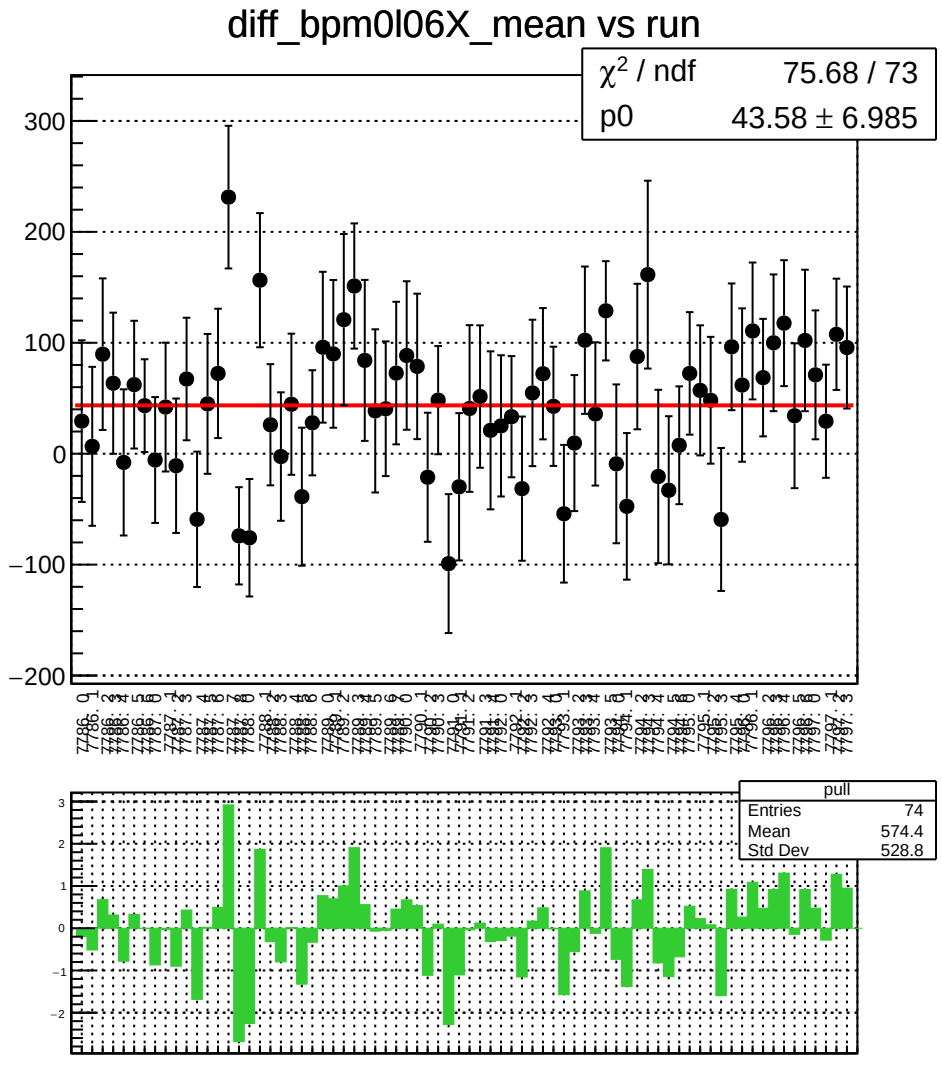

pull1D
Entries 74
Mean 0.01178
Std Dev 1.026

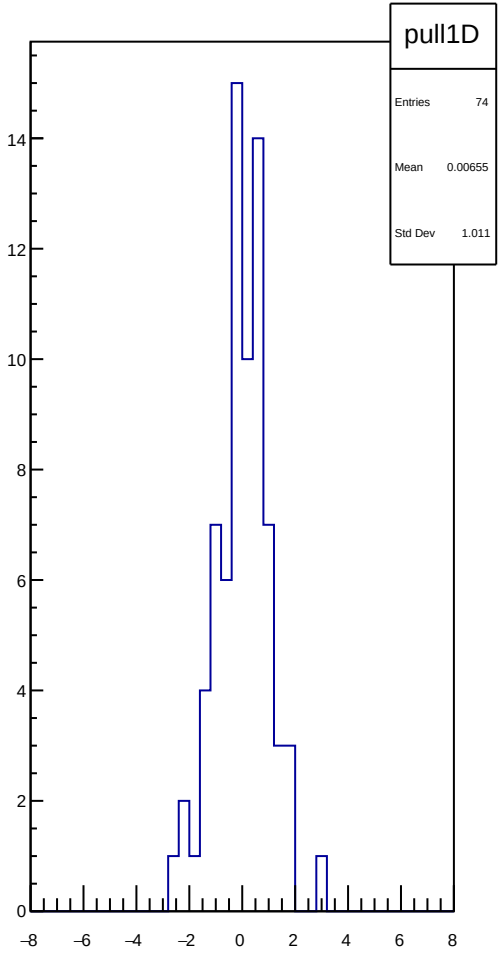

diff_bpm0l05X_rms vs run
χ² / ndf 1.49e+04 / 73
p0 4951 ± 4.151
7000
6500
6000
5500
5000
4500
4000

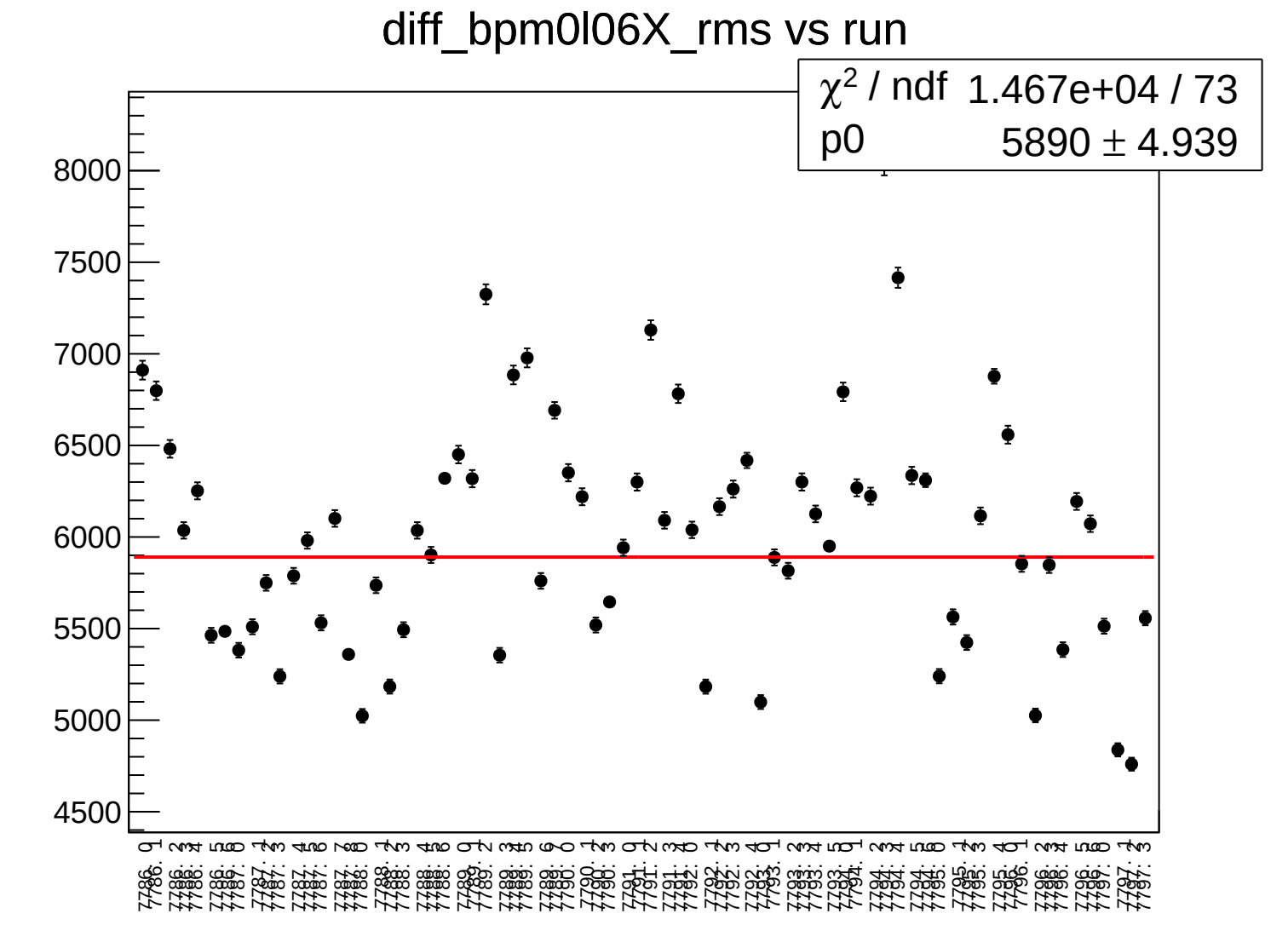

diff_bpm0l05Y_mean vs run
χ² / ndf 115.8 / 73
p0 17.82 ± 1.693
pull
Entries 74
Mean −466.7
Std Dev 510.5

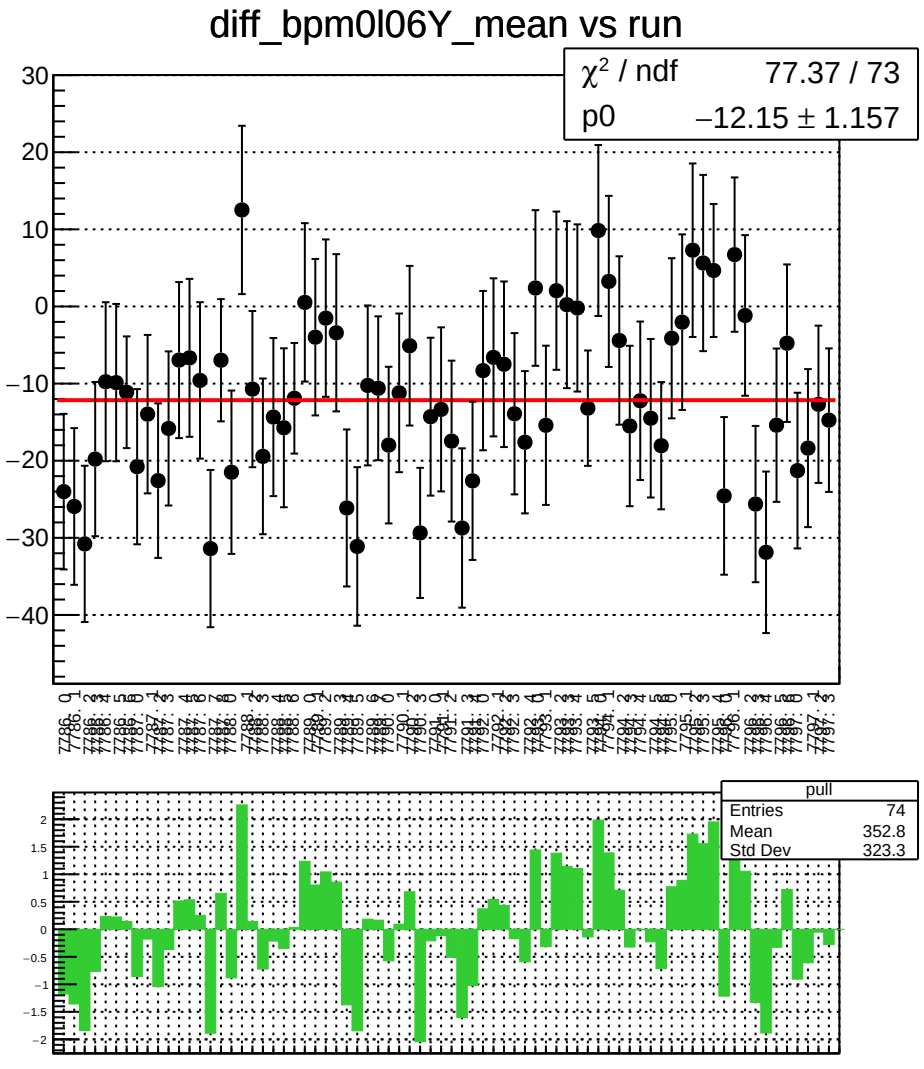

pull1D
Entries 74
Mean −0.01375
Std Dev 1.251

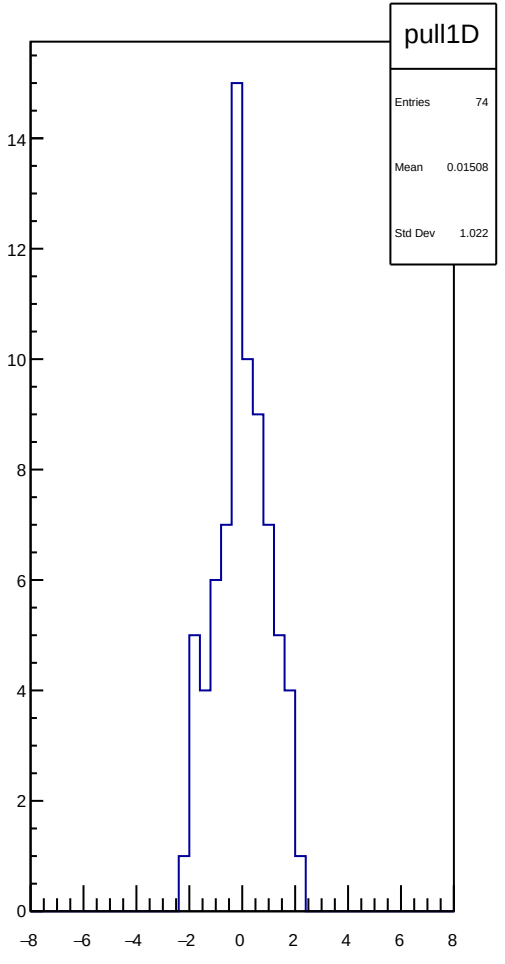

diff_bpm0l05Y_rms vs run
χ² / ndf 747.8 / 73
p0 1435 ± 1.197
1560
1540
1520
1500
1480
1460
1440
1420
1400
1380
1360

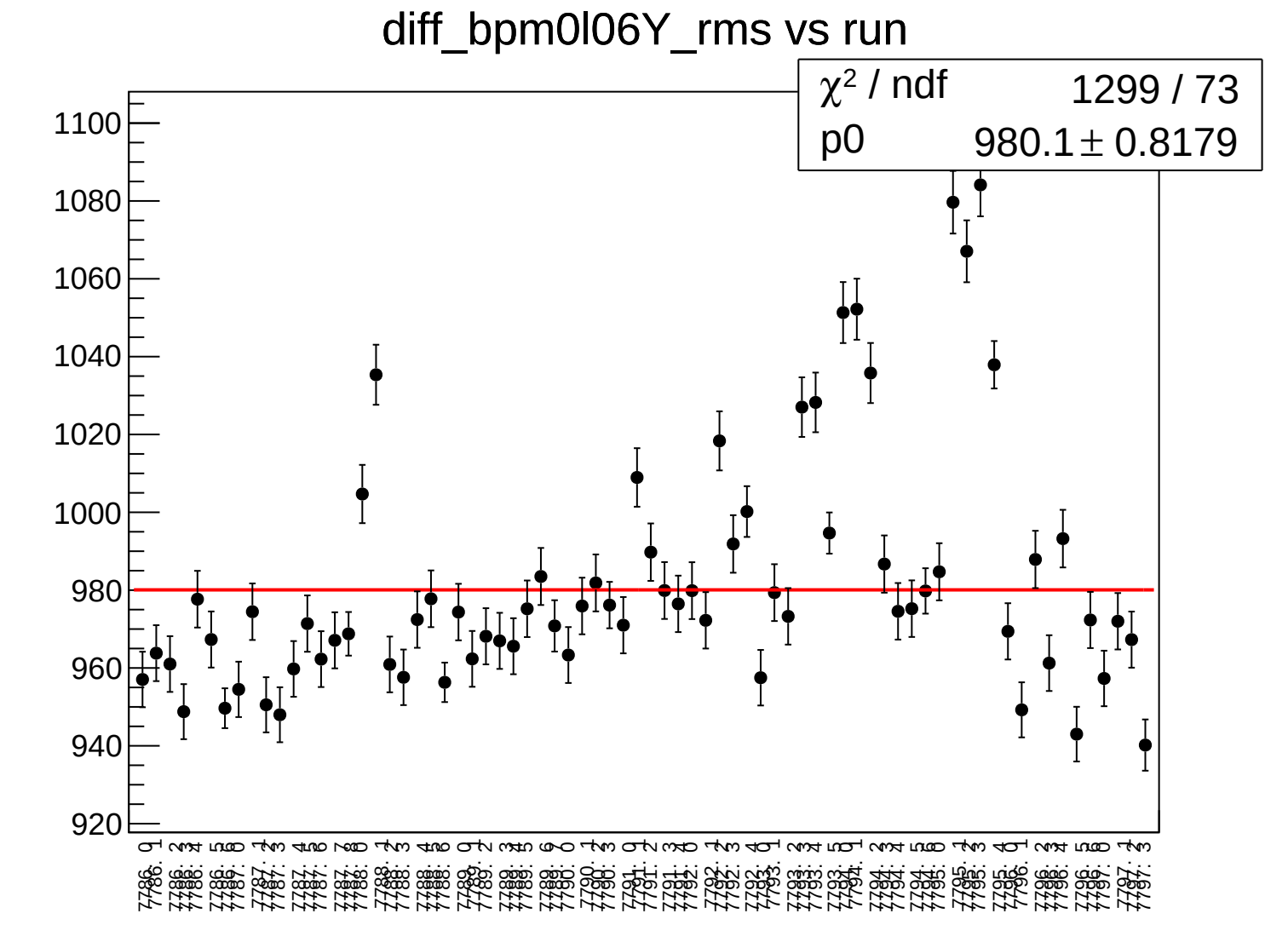

diff_bpm0l06X_mean vs run
χ² / ndf 75.68 / 73
p0 43.58 ± 6.985
pull
Entries 74
Mean 574.4
Std Dev 528.8

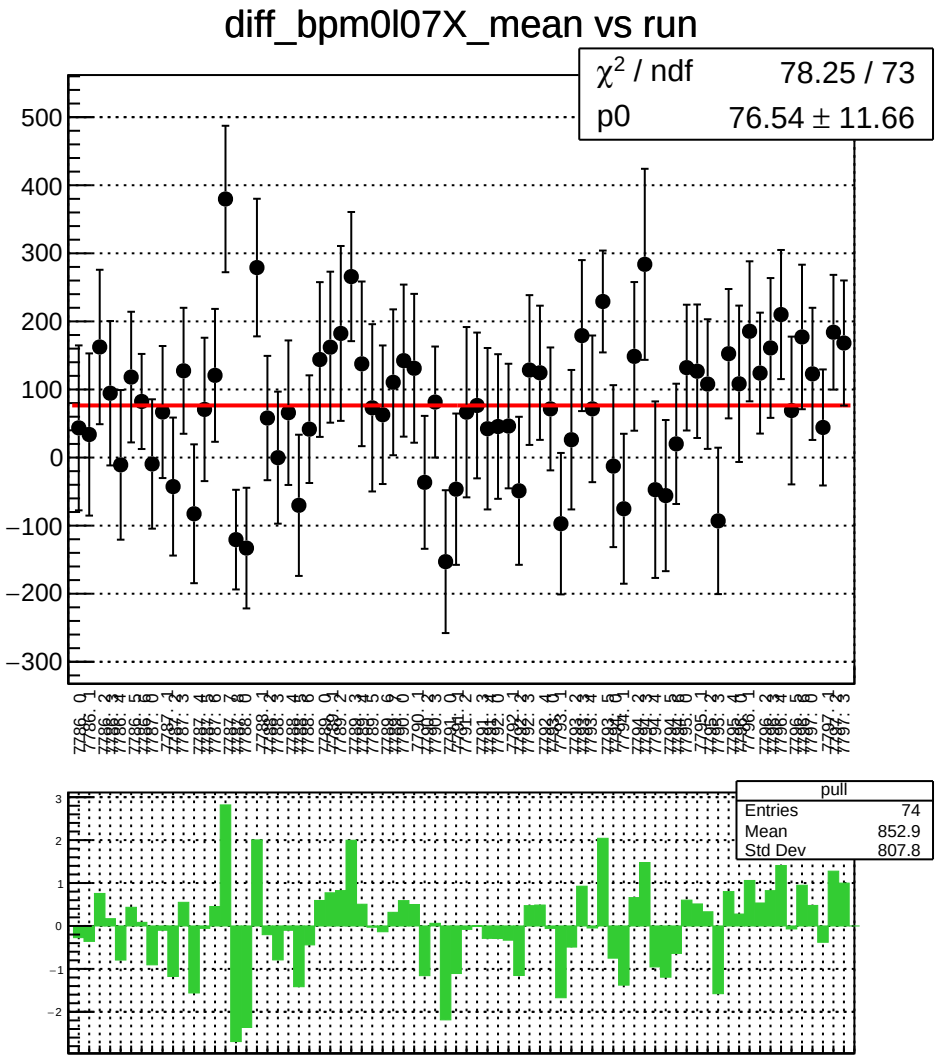

pull1D
Entries 74
Mean 0.00655
Std Dev 1.011

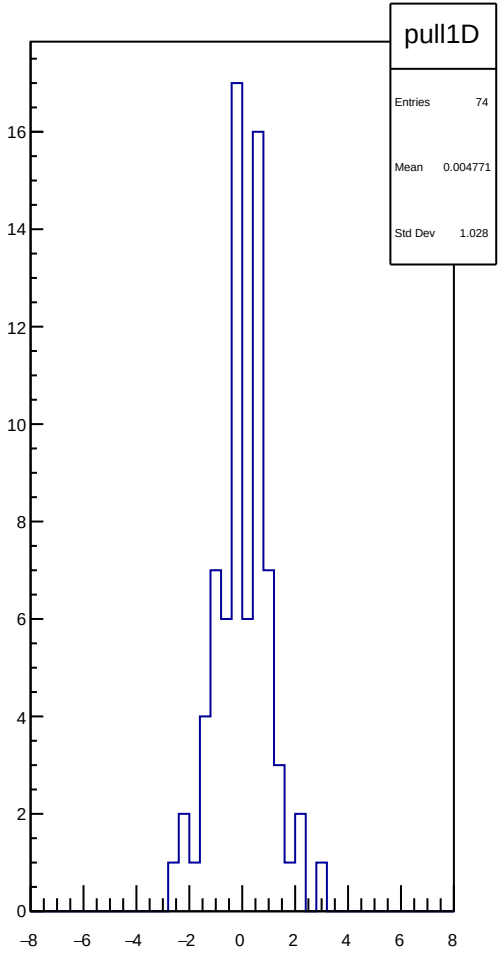

diff_bpm0l06X_rms vs run
χ² / ndf 1.467e+04 / 73
p0 5890 ± 4.939
8000
7500
7000
6500
6000
5500
5000
4500

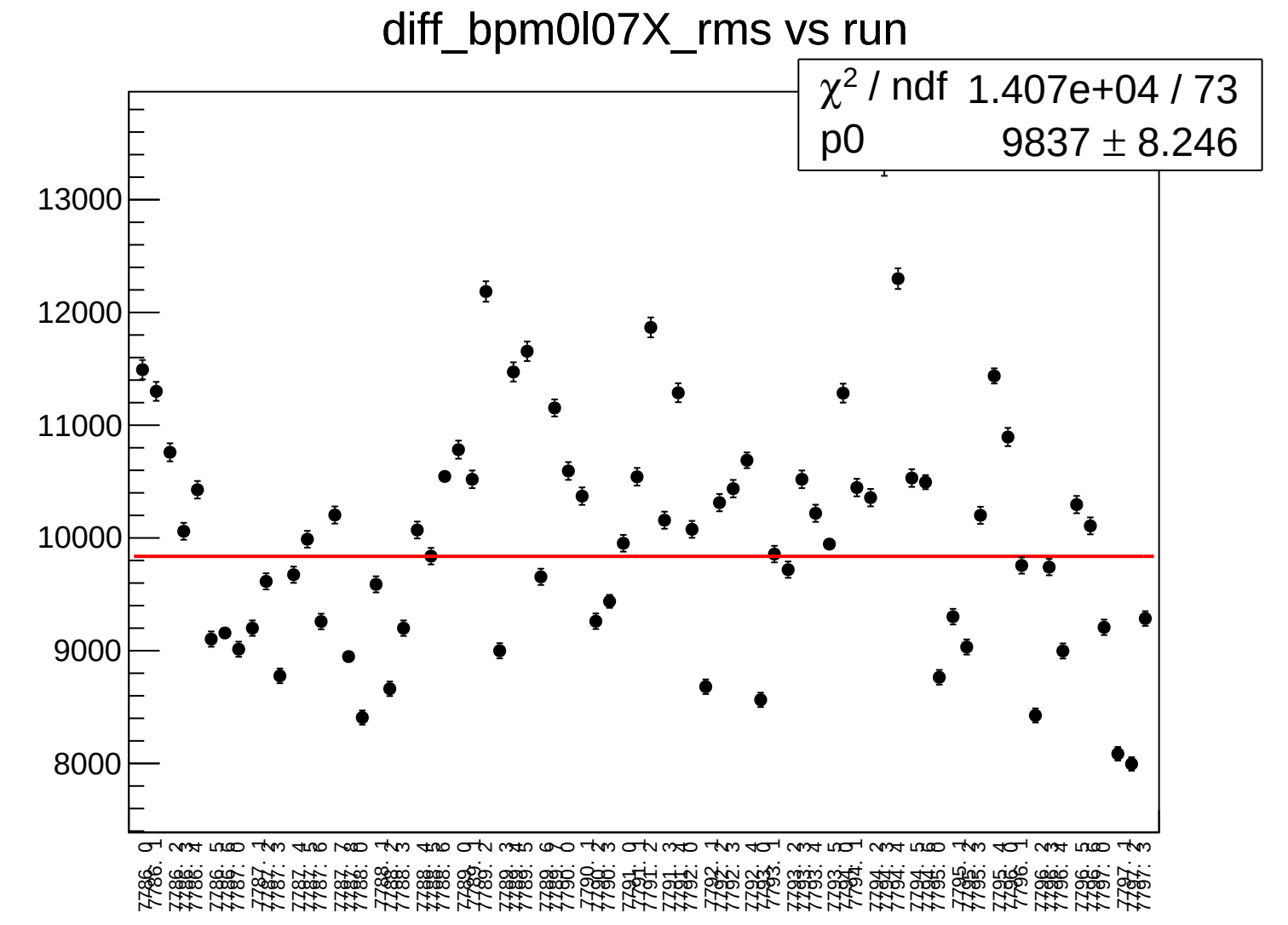

diff_bpm0l06Y_mean vs run
χ² / ndf 77.37 / 73
p0 −12.15 ± 1.157
pull
Entries 74
Mean 352.8
Std Dev 323.3

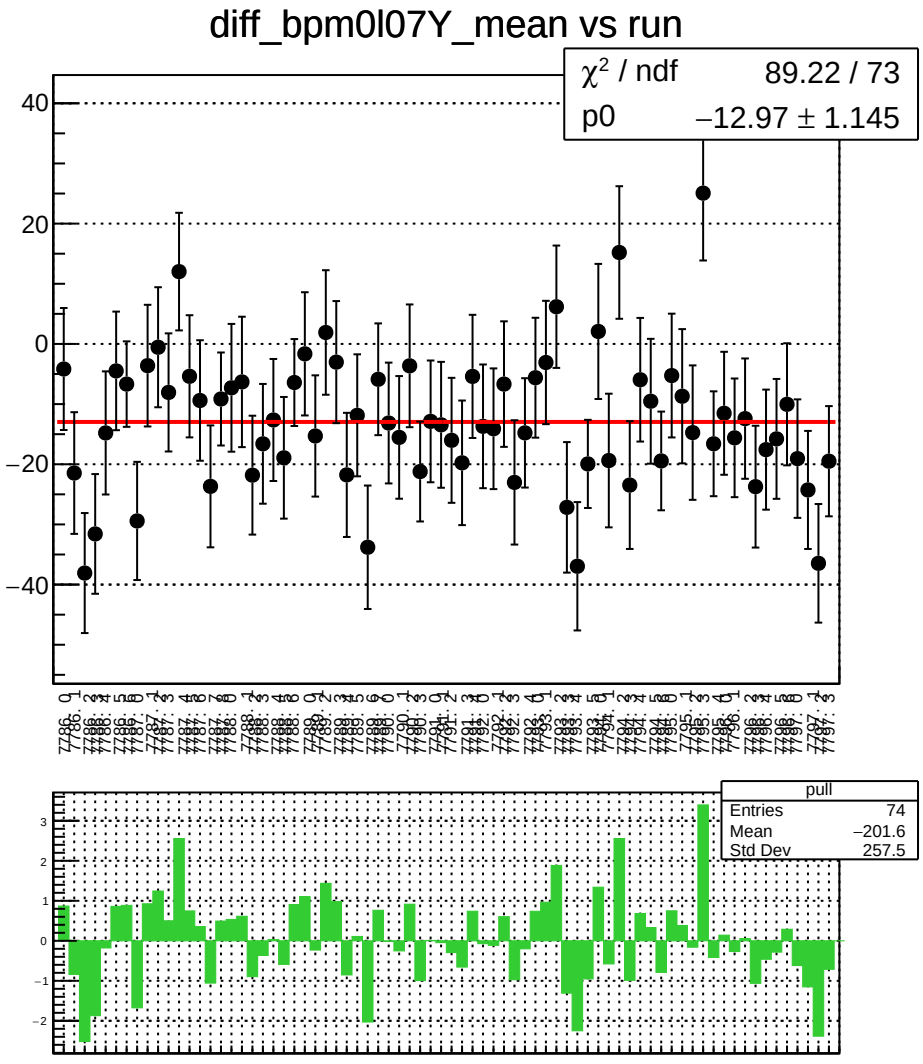

pull1D
Entries 74
Mean 0.01508
Std Dev 1.022

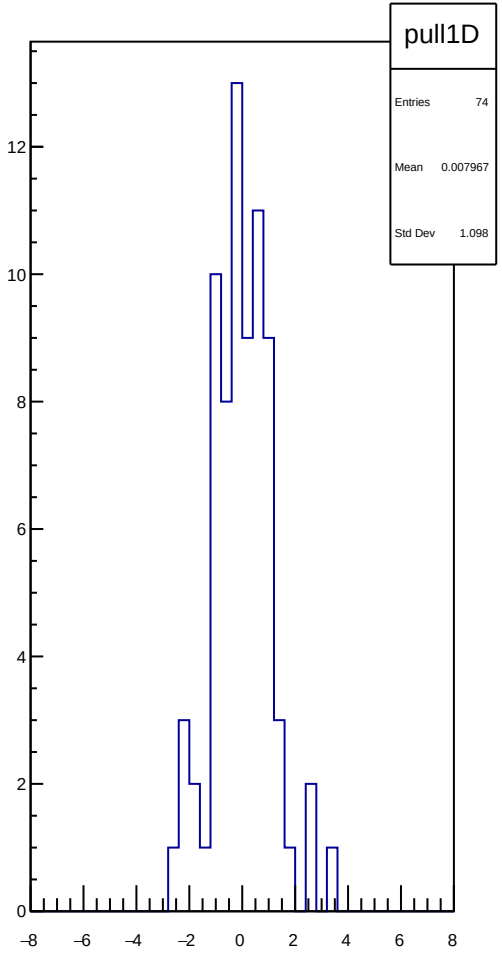

diff_bpm0l06Y_rms vs run
χ² / ndf 1299 / 73
p0 980.1 ± 0.8179
1100
1080
1060
1040
1020
1000
980
960
940
920

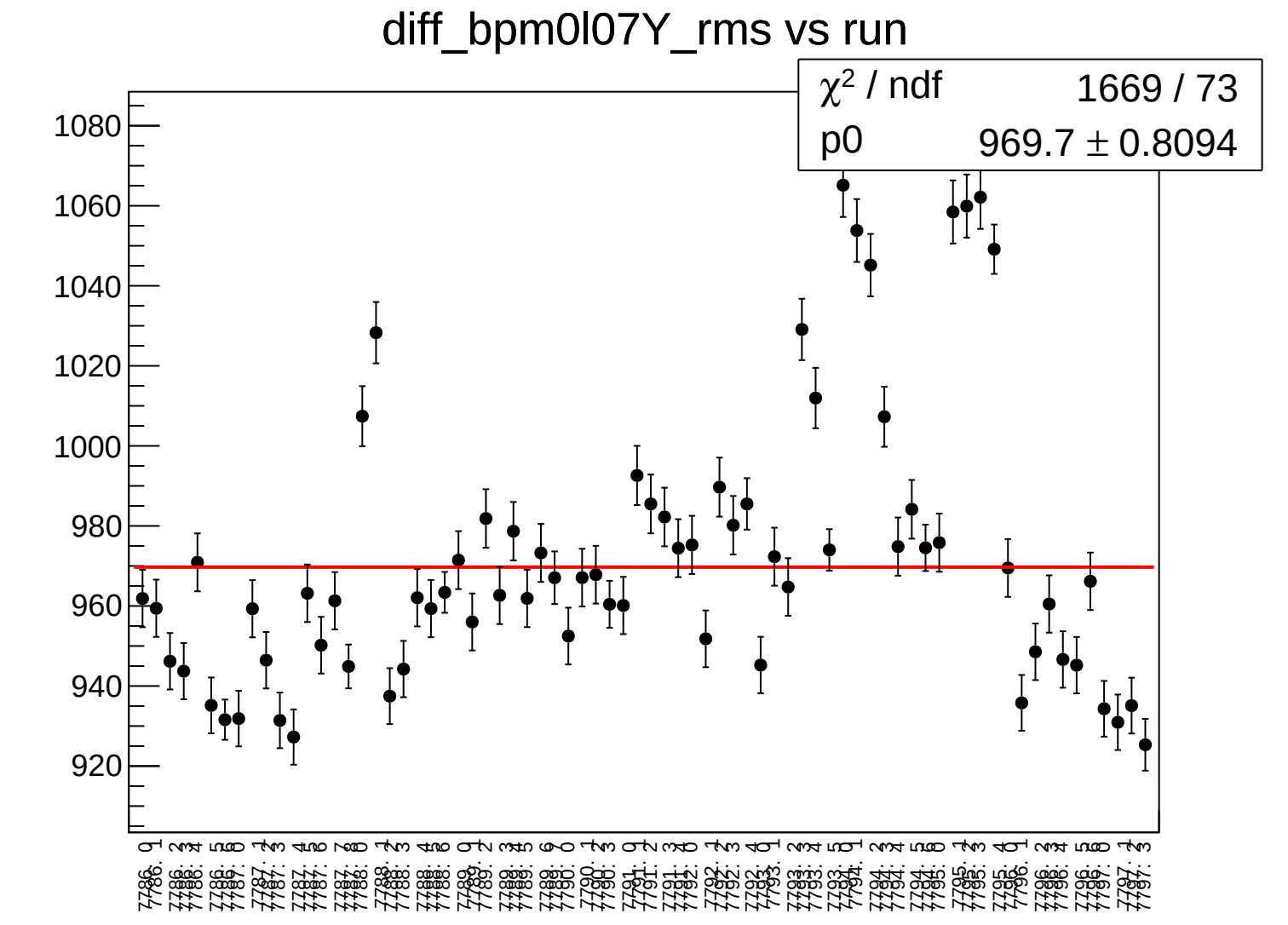

diff_bpm0l07X_mean vs run
χ² / ndf 78.25 / 73
p0 76.54 ± 11.66
pull
Entries 74
Mean 852.9
Std Dev 807.8

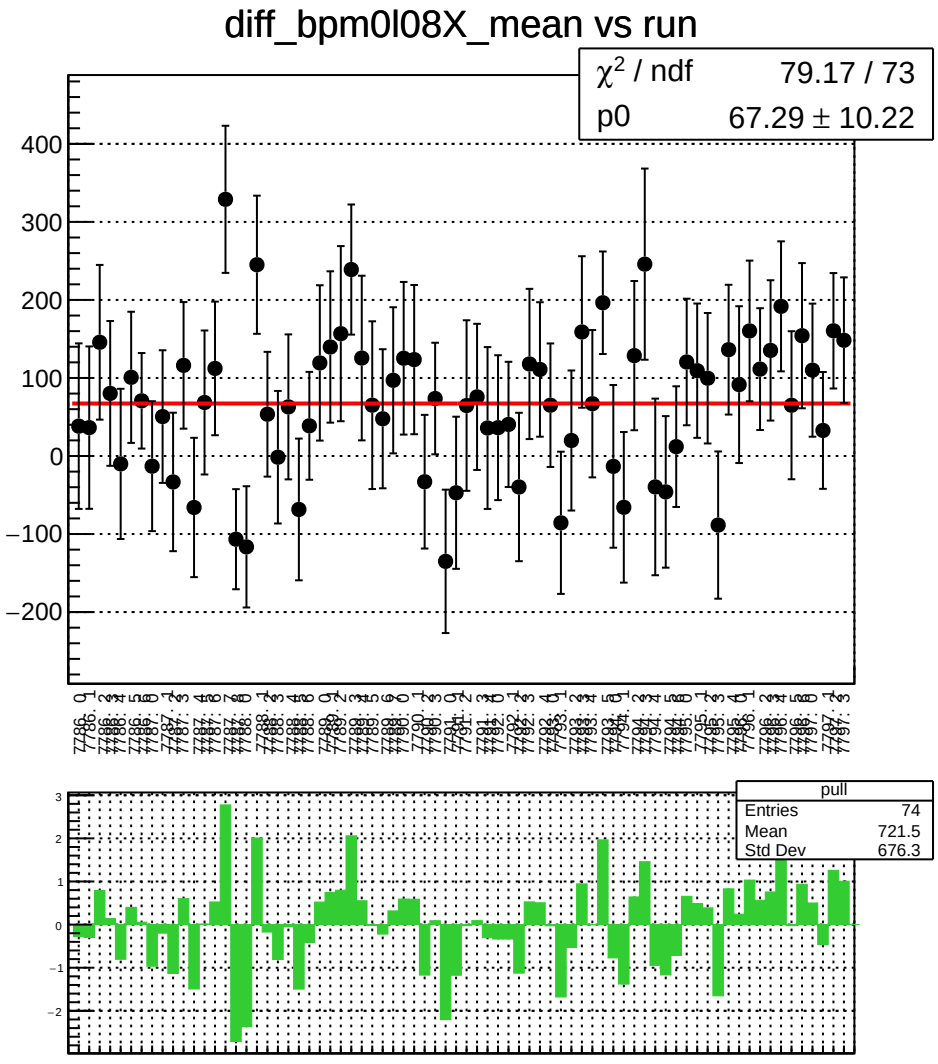

pull1D
Entries 74
Mean 0.004771
Std Dev 1.028

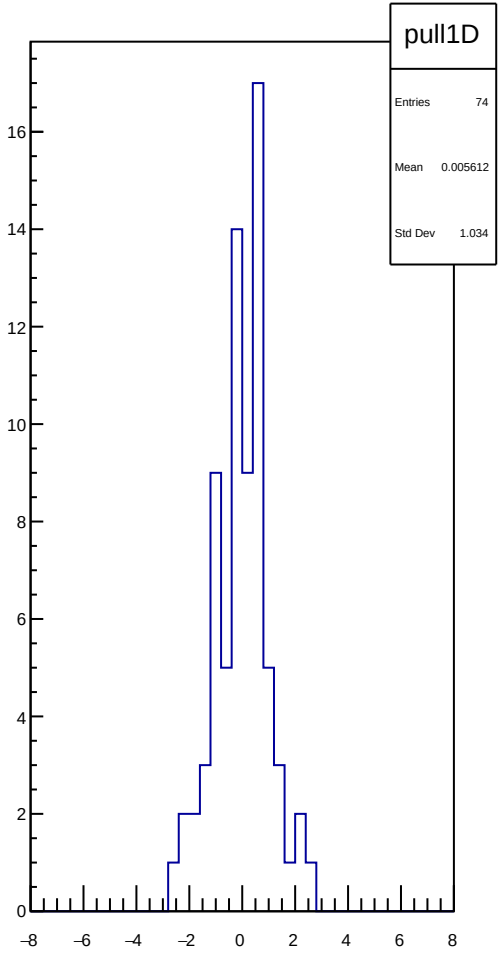

diff_bpm0l07X_rms vs run
χ² / ndf 1.407e+04 / 73
p0 9837 ± 8.246
13000
12000
11000
10000
9000
8000

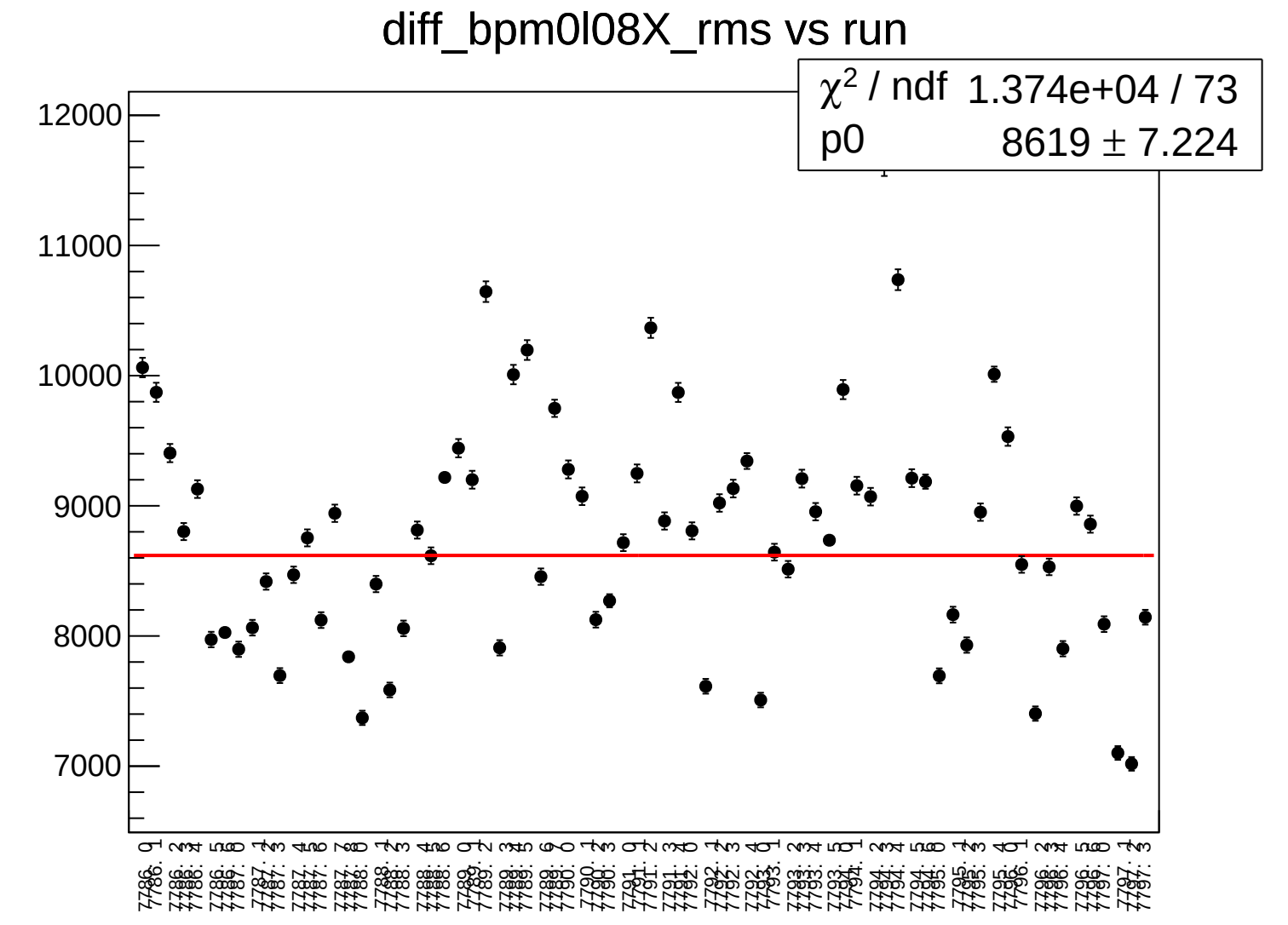

diff_bpm0l07Y_mean vs run
χ² / ndf 89.22 / 73
p0 −12.97 ± 1.145
pull
Entries 74
Mean −201.6
Std Dev 257.5

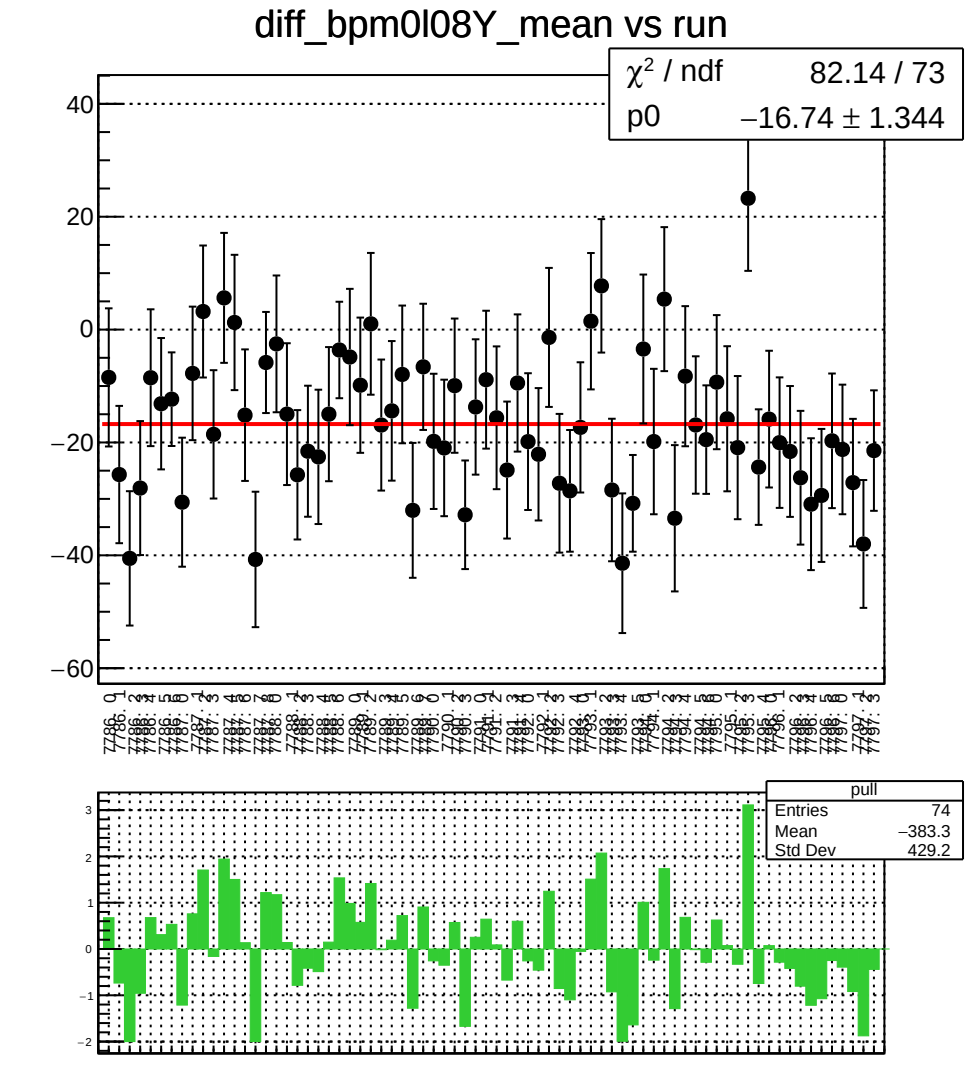

pull1D
Entries 74
Mean 0.007967
Std Dev 1.098

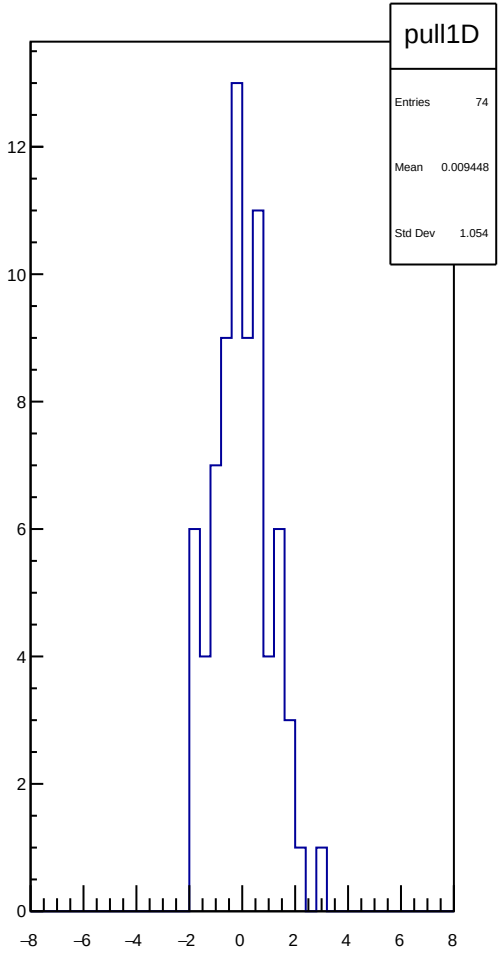

diff_bpm0l07Y_rms vs run
χ² / ndf 1669 / 73
p0 969.7 ± 0.8094
1080
1060
1040
1020
1000
980
960
940
920

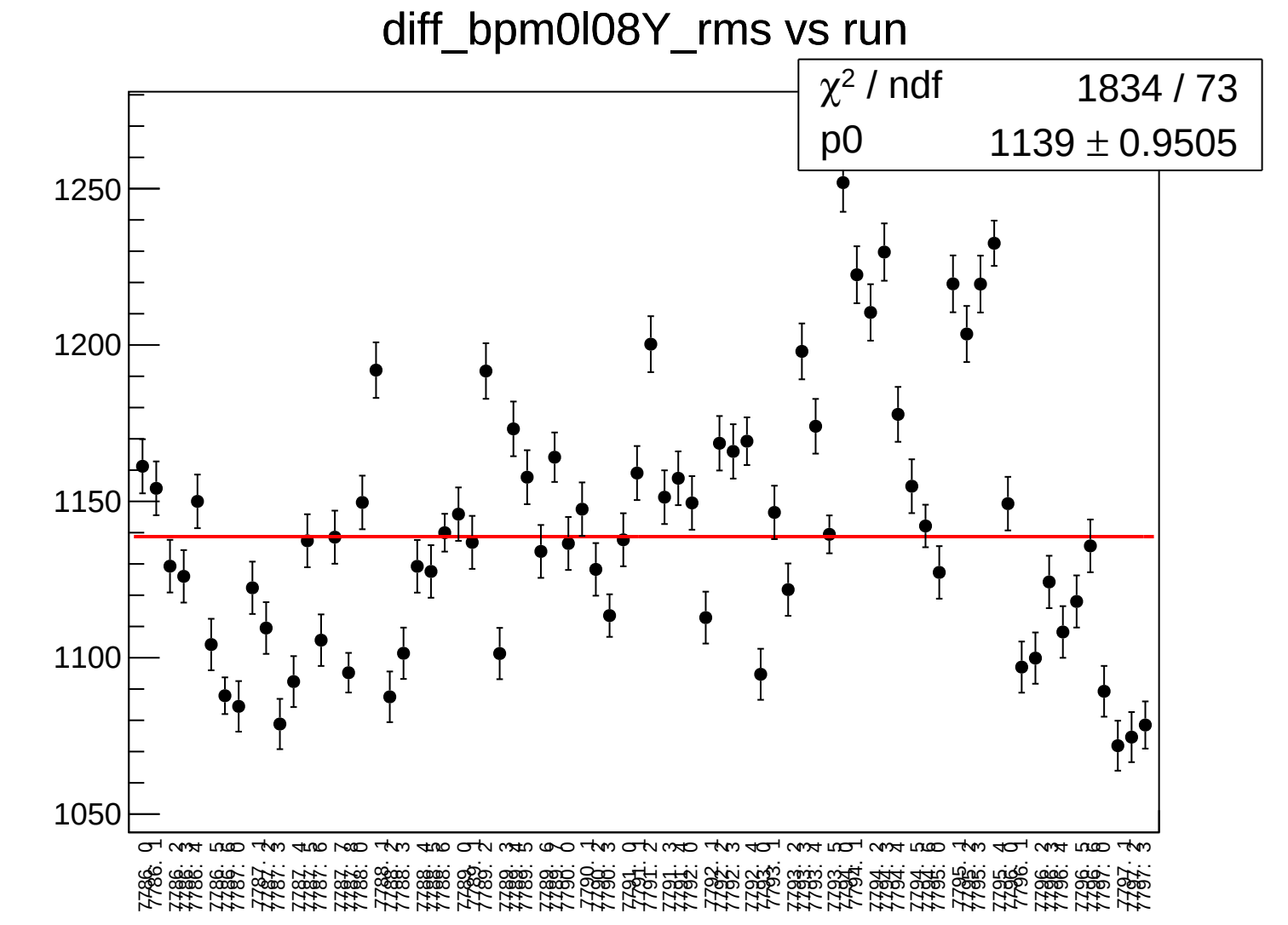

diff_bpm0l08X_mean vs run
χ² / ndf 79.17 / 73
p0 67.29 ± 10.22
pull
Entries 74
Mean 721.5
Std Dev 676.3

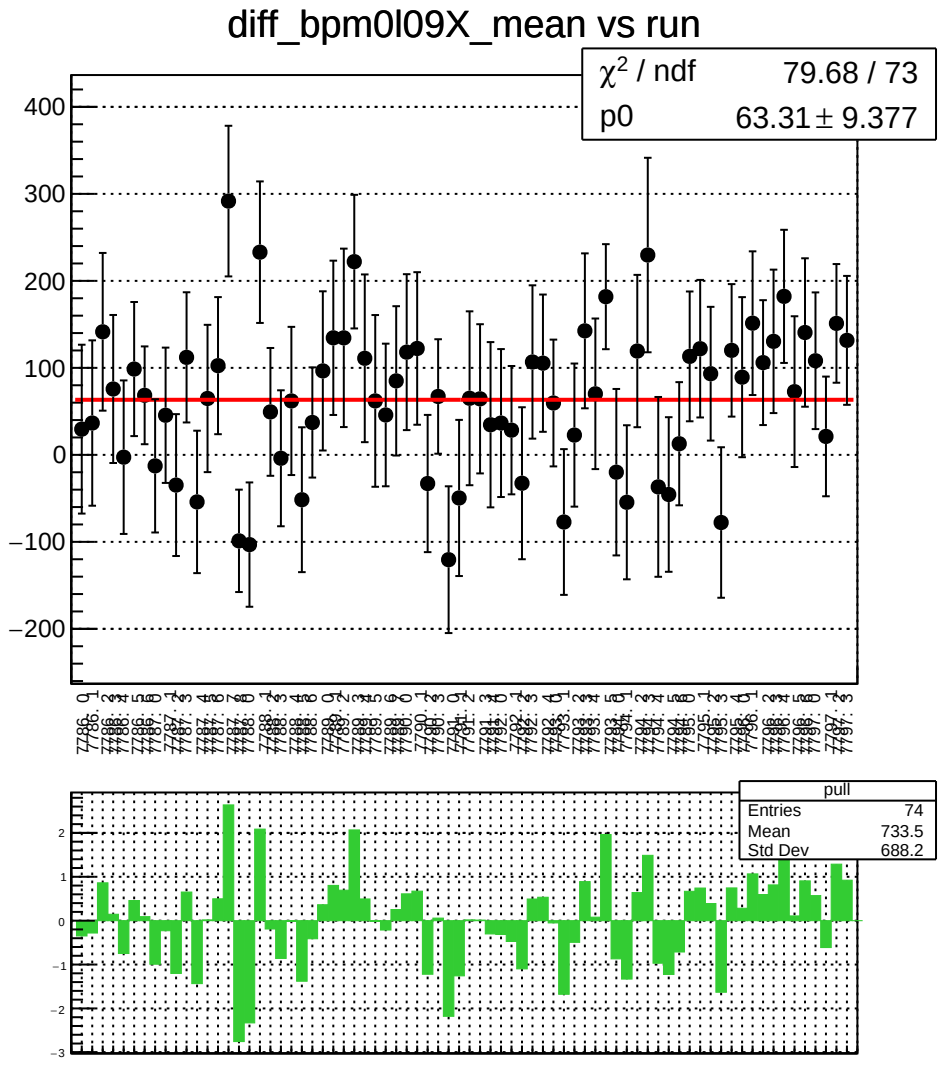

pull1D
Entries 74
Mean 0.005612
Std Dev 1.034

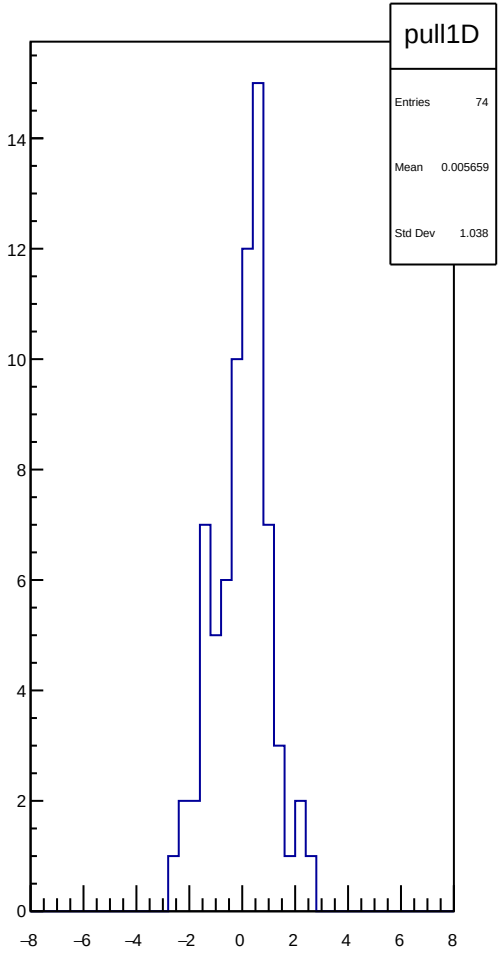

diff_bpm0l08X_rms vs run
χ² / ndf 1.374e+04 / 73
p0 8619 ± 7.224
12000
11000
10000
9000
8000
7000

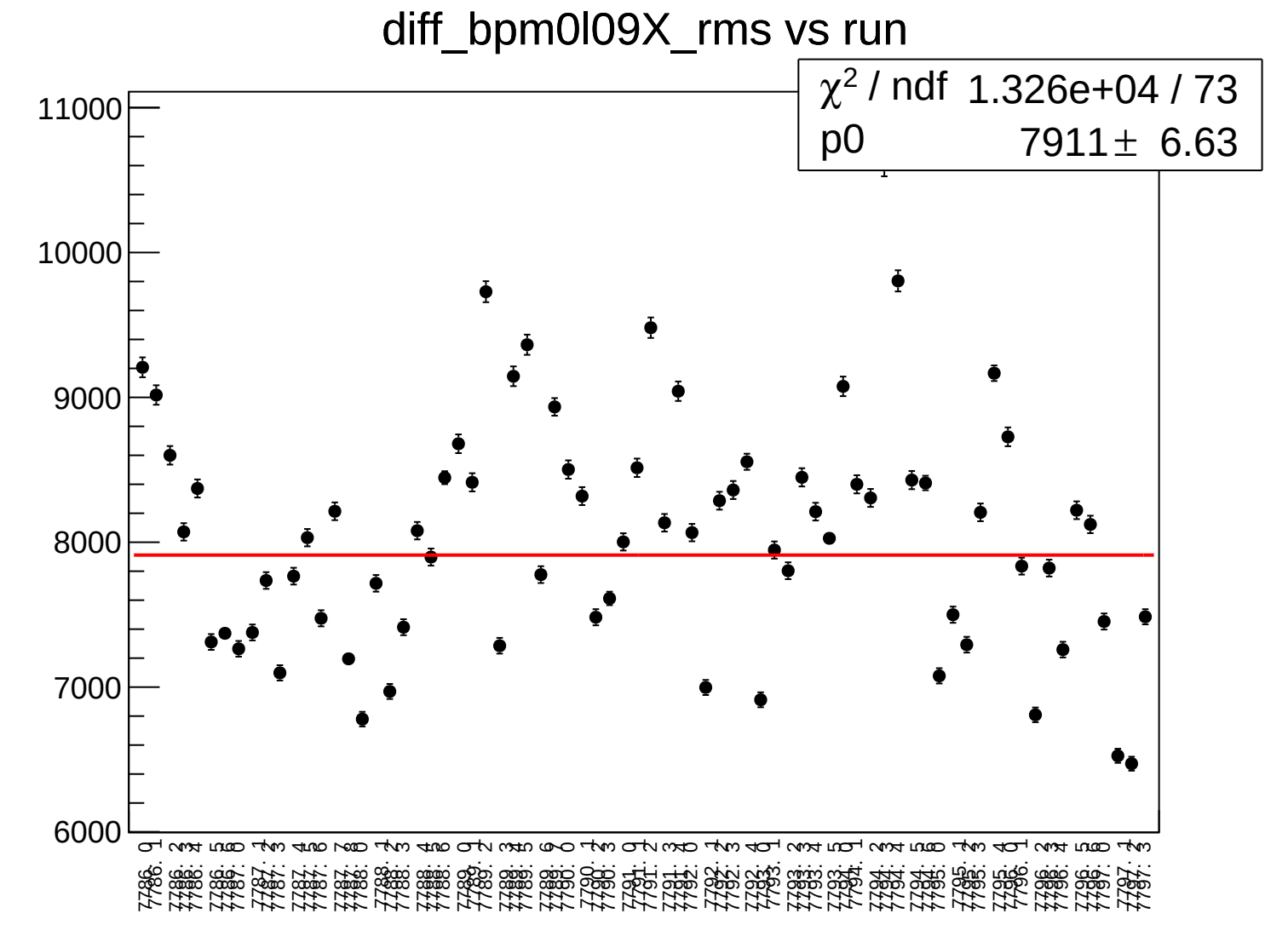

diff_bpm0l08Y_mean vs run
χ² / ndf 82.14 / 73
p0 −16.74 ± 1.344
pull
Entries 74
Mean −383.3
Std Dev 429.2

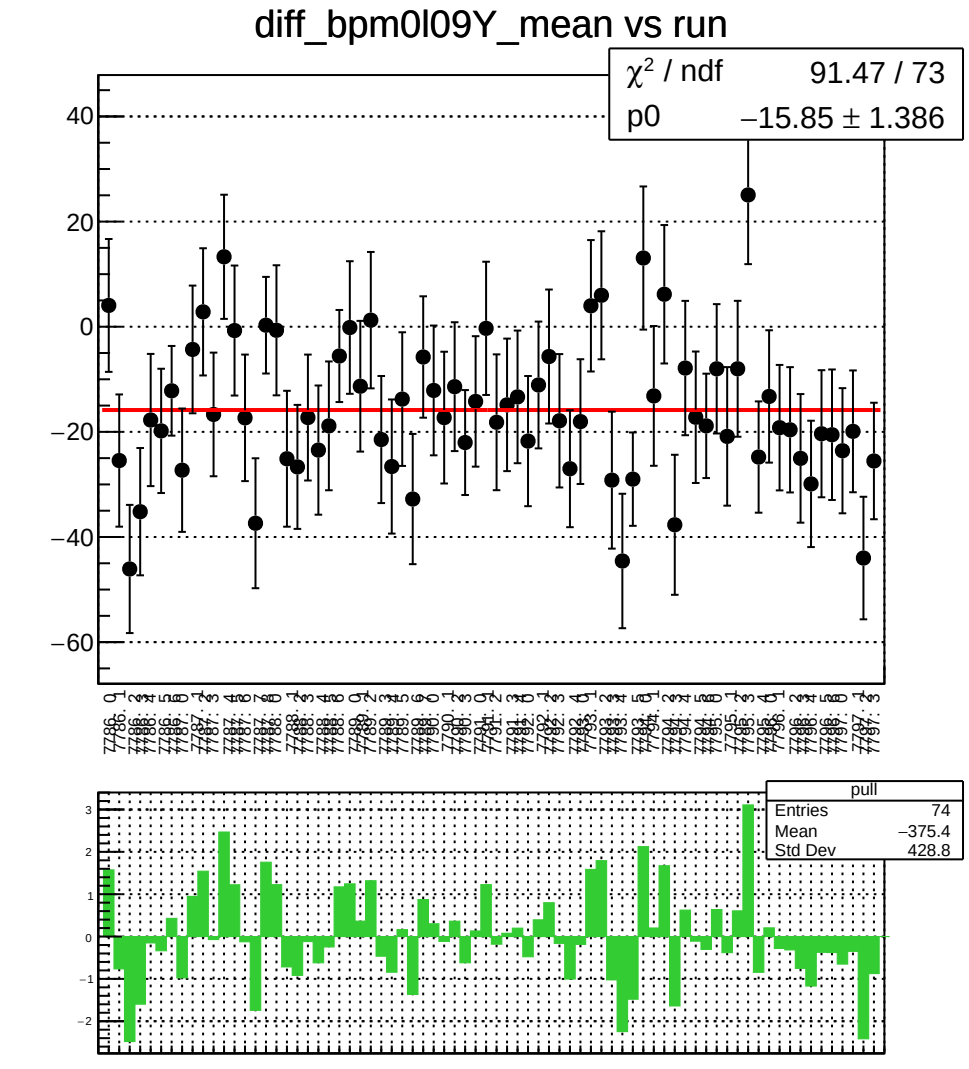

pull1D
Entries 74
Mean 0.009448
Std Dev 1.054

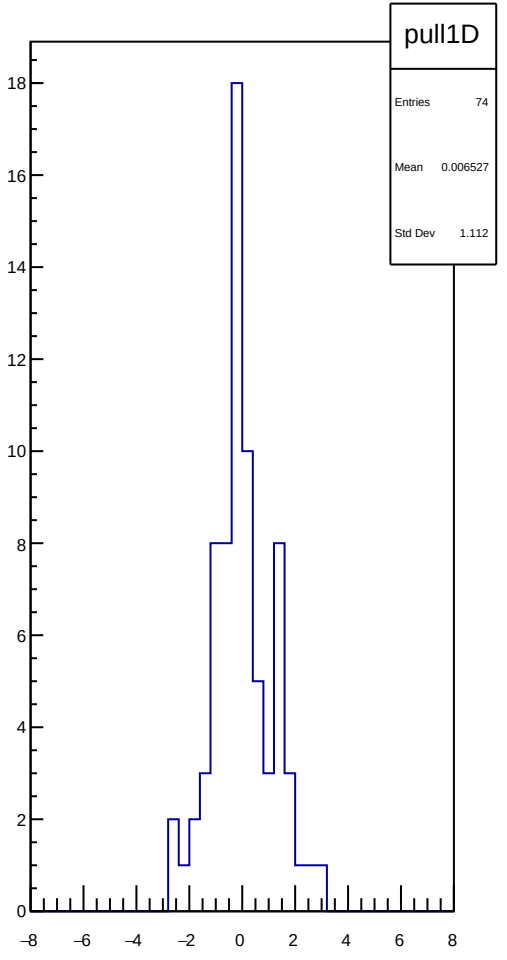

diff_bpm0l08Y_rms vs run
χ² / ndf 1834 / 73
p0 1139 ± 0.9505
1250
1200
1150
1100
1050

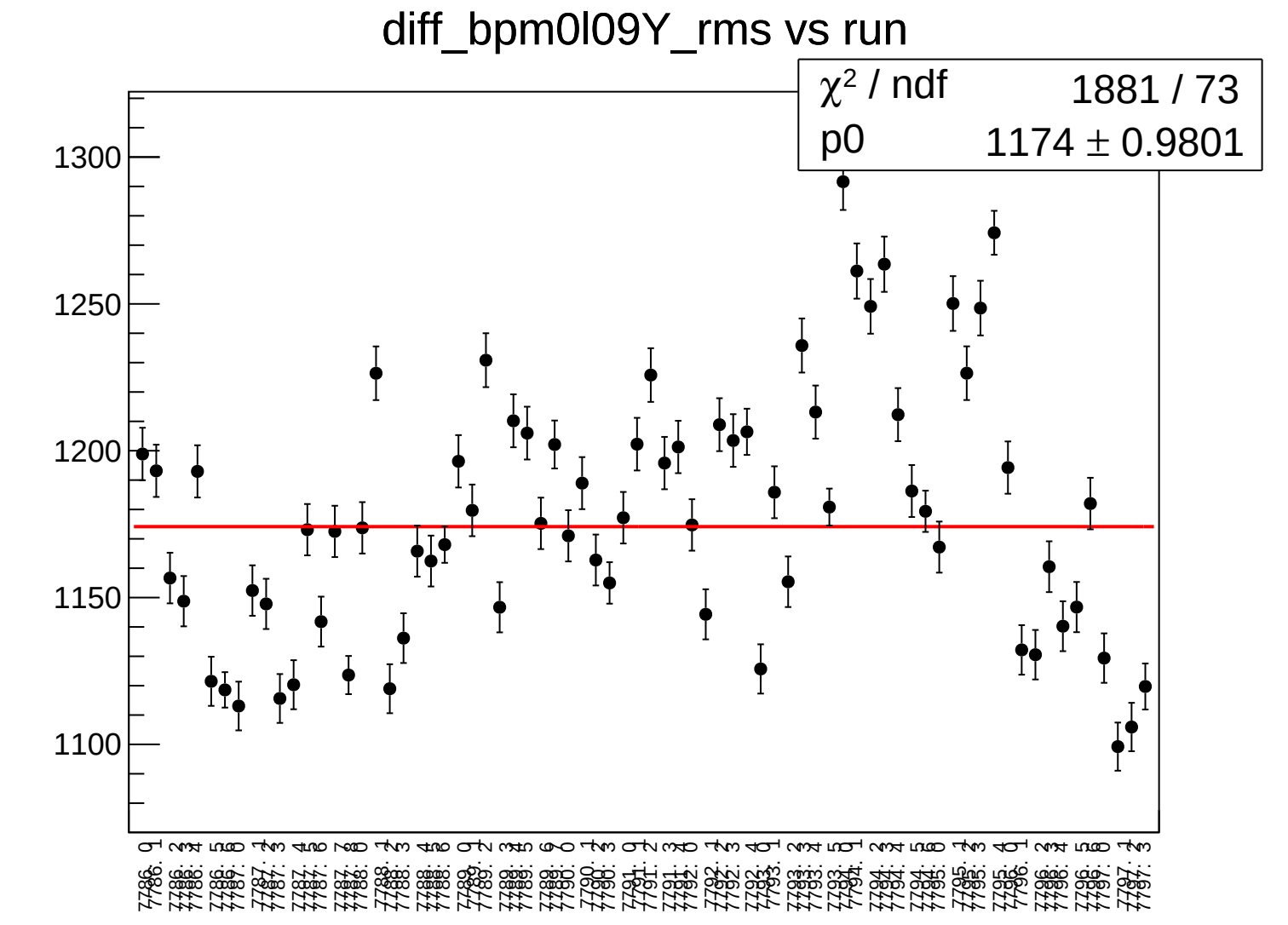

diff_bpm0l09X_mean vs run
χ² / ndf 79.68 / 73
p0 63.31 ± 9.377
pull
Entries 74
Mean 733.5
Std Dev 688.2

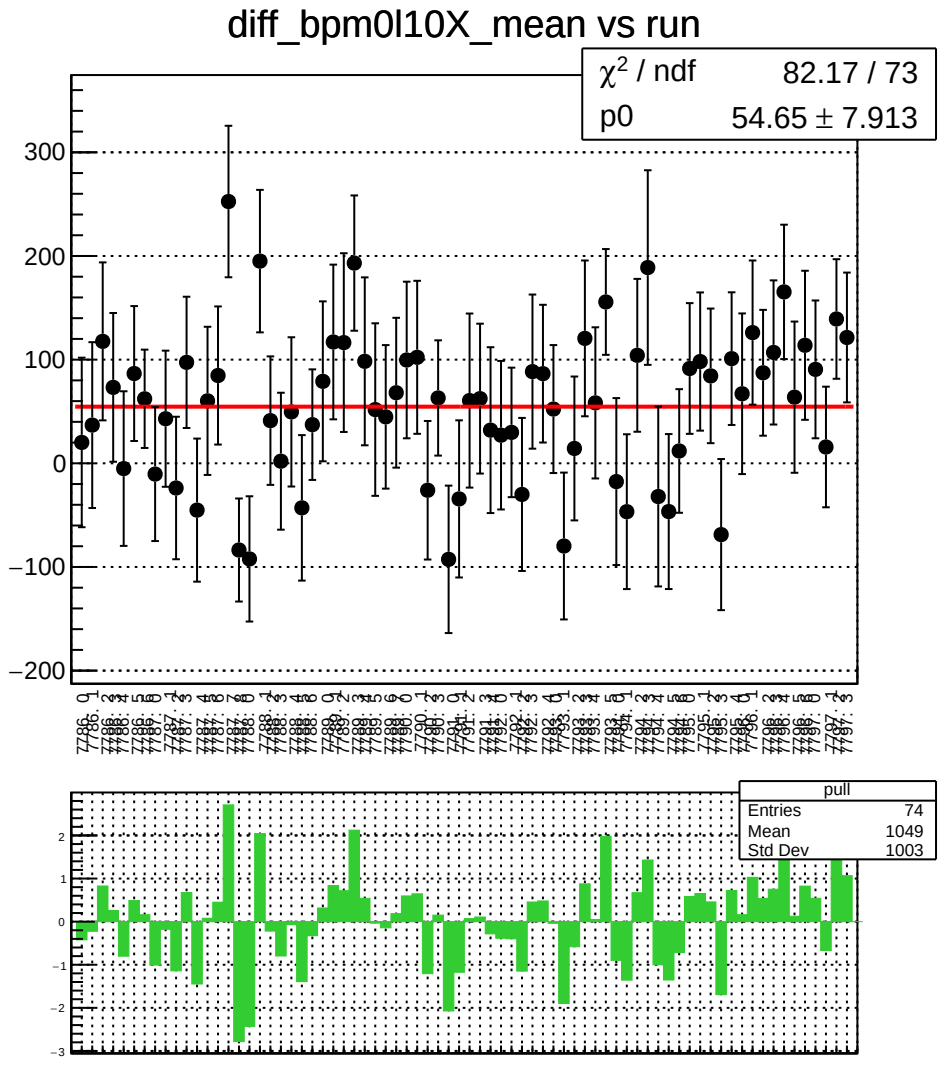

pull1D
Entries 74
Mean 0.005659
Std Dev 1.038

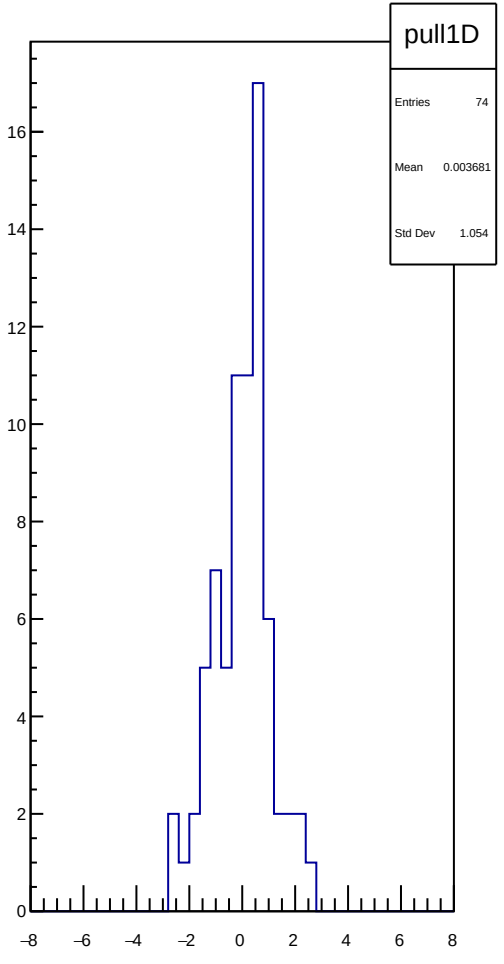

diff_bpm0l09X_rms vs run
χ² / ndf 1.326e+04 / 73
p0 7911 ± 6.63
11000
10000
9000
8000
7000
6000

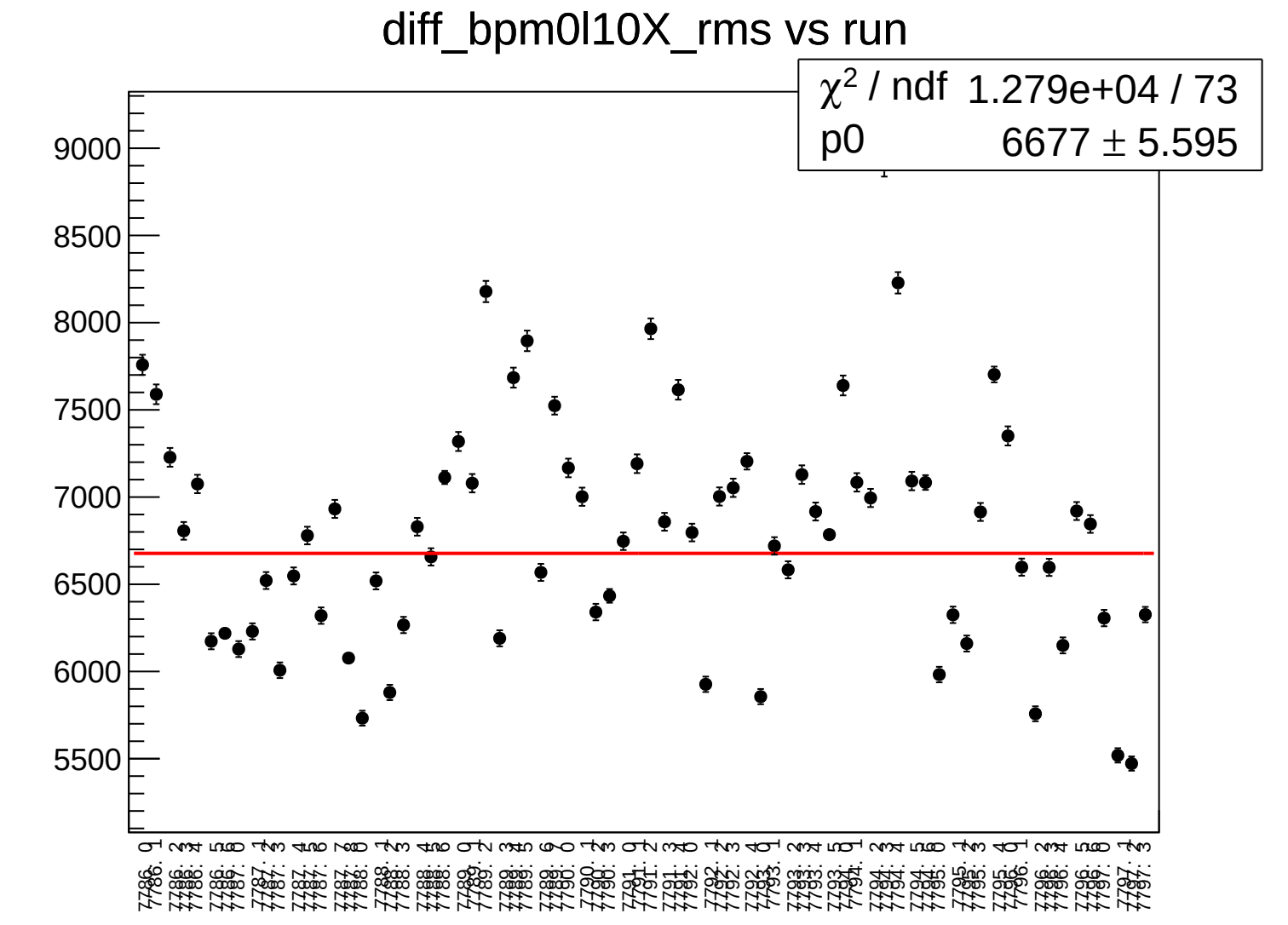

diff_bpm0l09Y_mean vs run
χ² / ndf 91.47 / 73
p0 −15.85 ± 1.386
pull
Entries 74
Mean −375.4
Std Dev 428.8

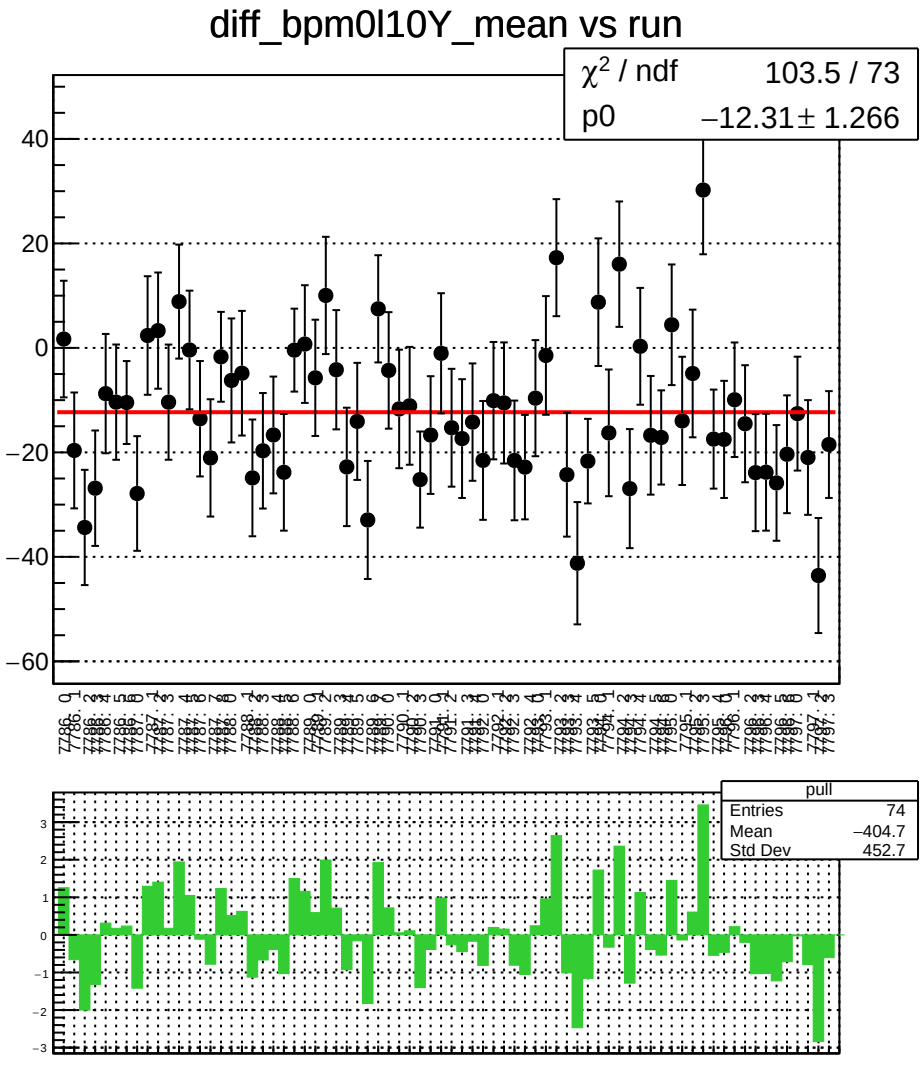

pull1D
Entries 74
Mean 0.006527
Std Dev 1.112

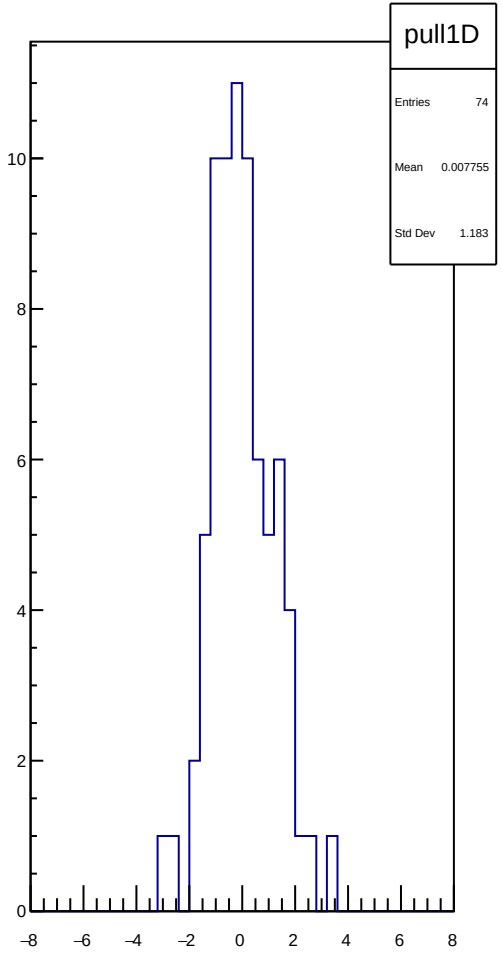

diff_bpm0l09Y_rms vs run
χ² / ndf 1881 / 73
p0 1174 ± 0.9801
1300
1250
1200
1150
1100

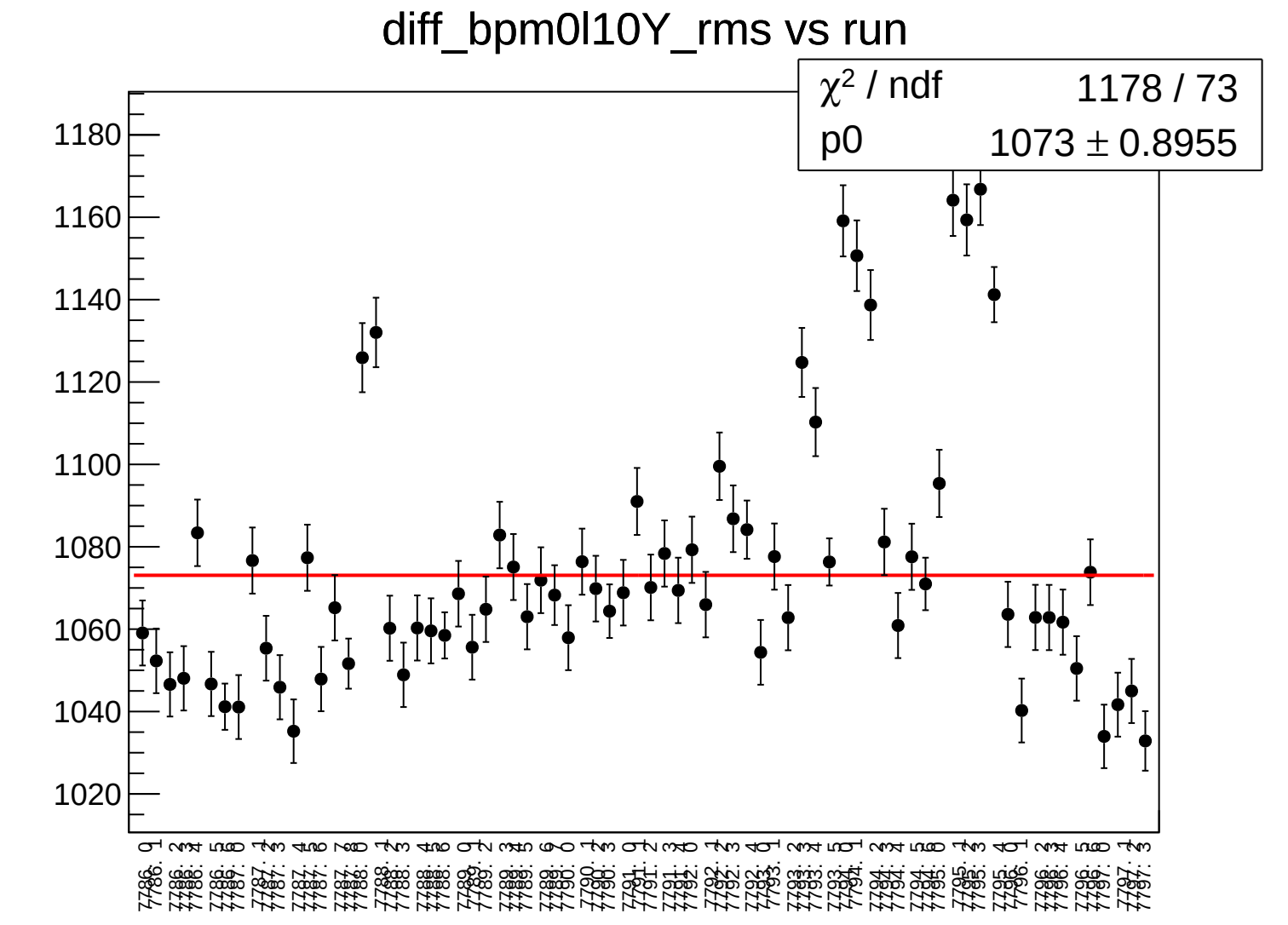

diff_bpm0l10X_mean vs run
χ² / ndf 82.17 / 73
p0 54.65 ± 7.913
pull
Entries 74
Mean 1049
Std Dev 1003

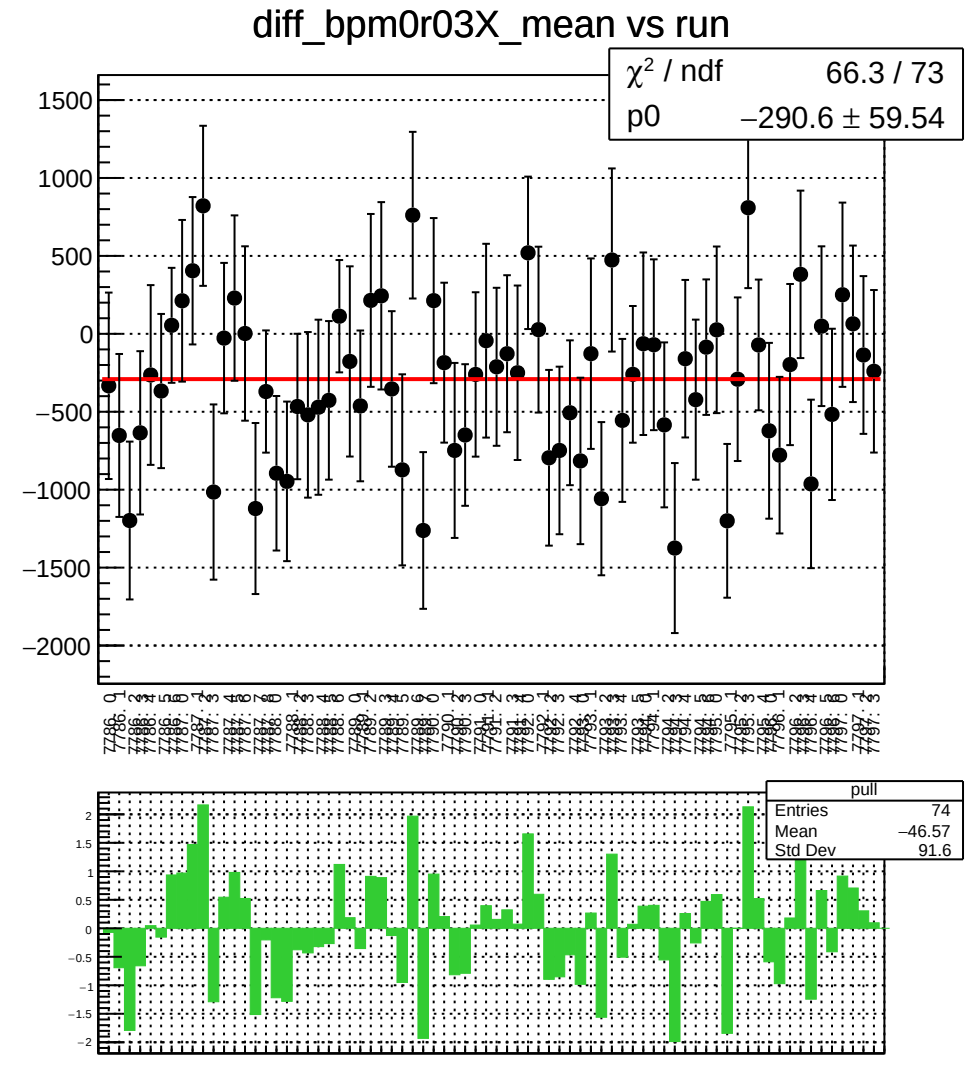

pull1D
Entries 74
Mean 0.003681
Std Dev 1.054

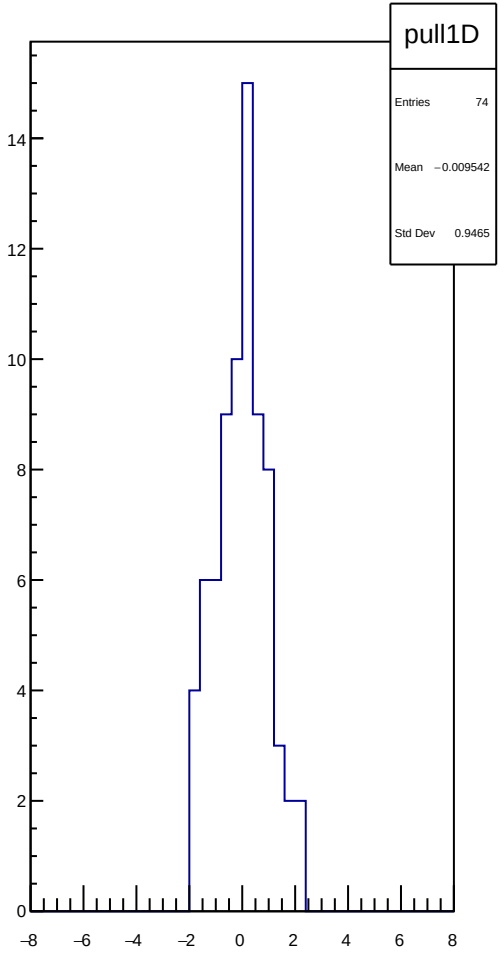

diff_bpm0l10X_rms vs run
χ^2 / ndf 1.279e+04 / 73
p0 6677 ± 5.595
9000
8500
8000
7500
7000
6500
6000
5500

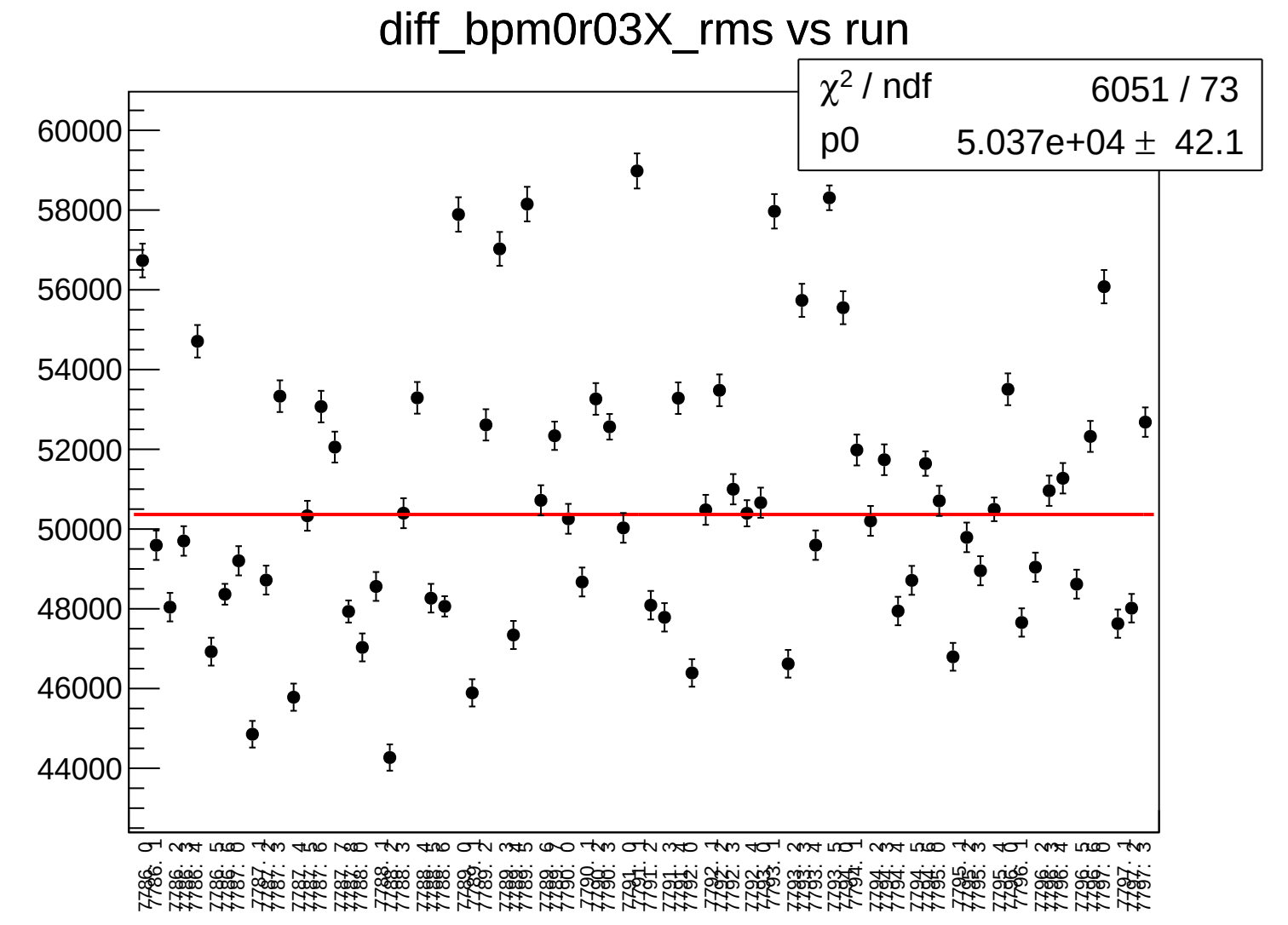

diff_bpm0l10Y_mean vs run
χ² / ndf 103.5 / 73
p0 −12.31± 1.266
pull
Entries 74
Mean −404.7
Std Dev 452.7

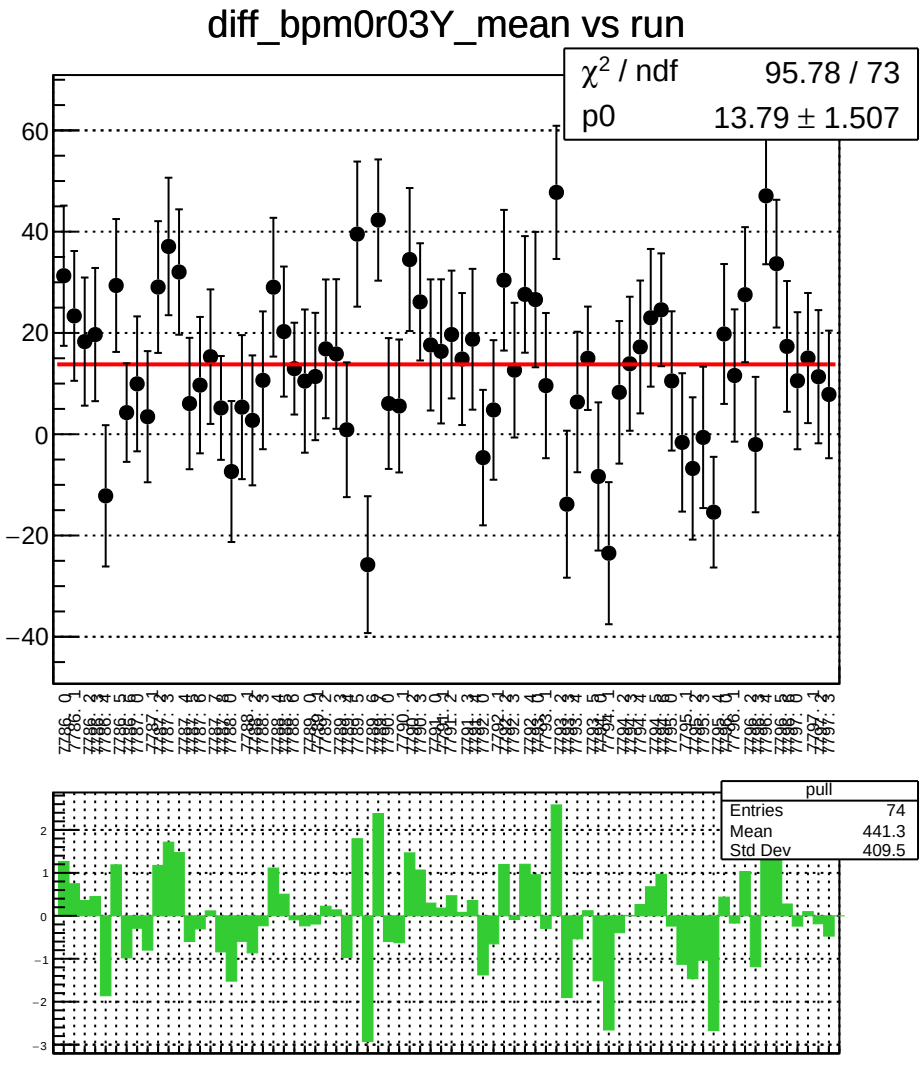

pull1D
Entries 74
Mean 0.007755
Std Dev 1.183

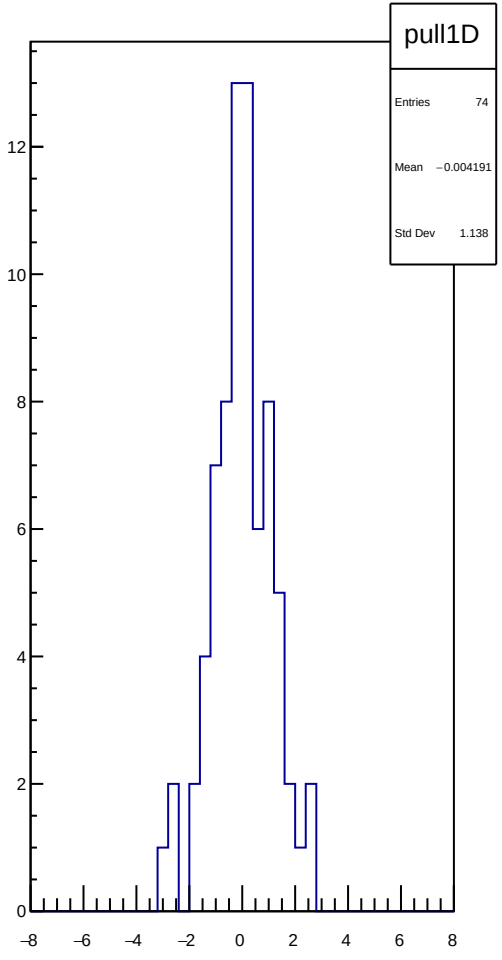

diff_bpm0l10Y_rms vs run
χ² / ndf 1178 / 73
p0 1073 ± 0.8955
1180
1160
1140
1120
1100
1080
1060
1040
1020

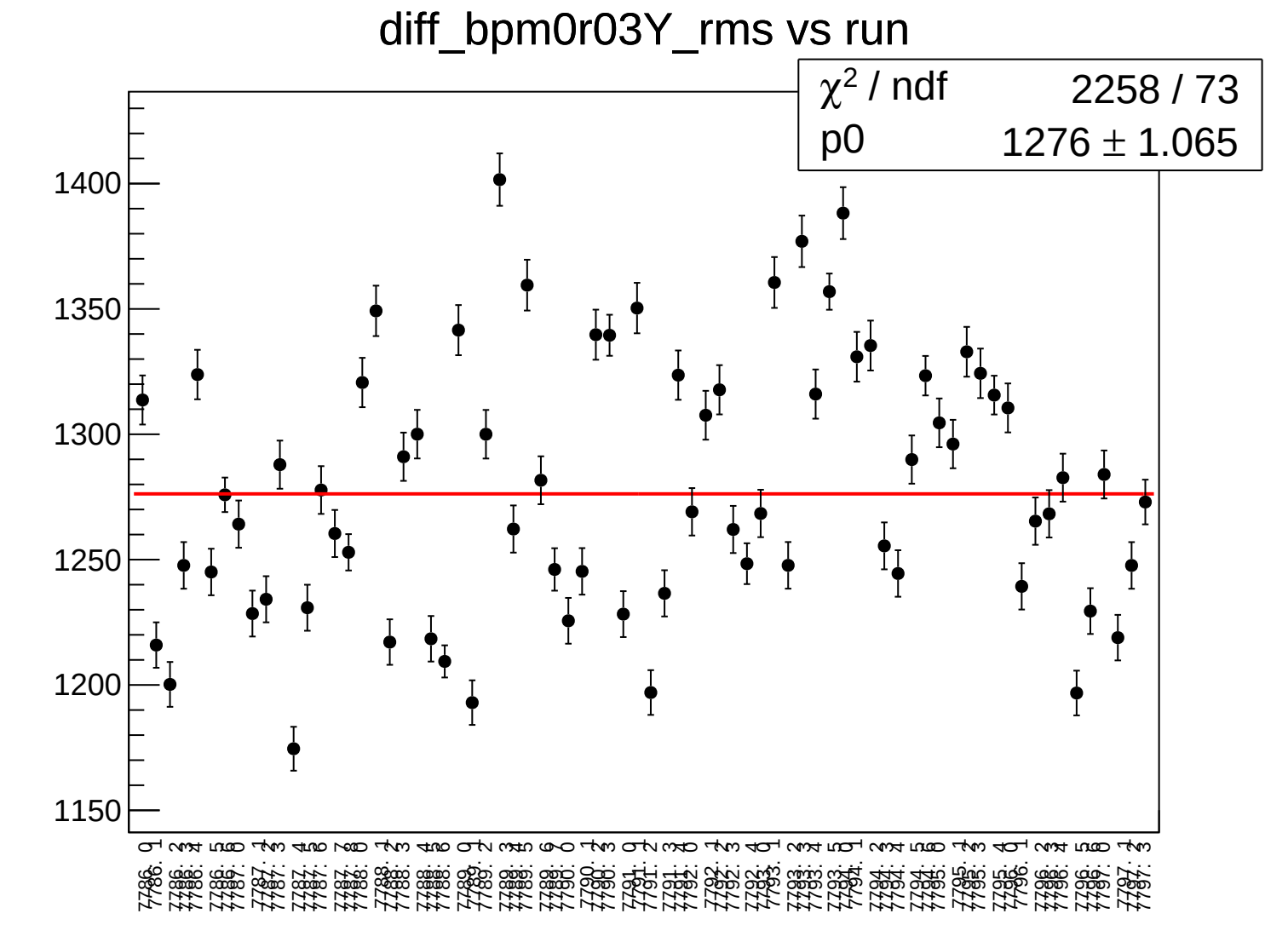

diff_bpm0r03X_mean vs run
χ² / ndf 66.3 / 73
p0 −290.6 ± 59.54
pull
Entries 74
Mean −46.57
Std Dev 91.6

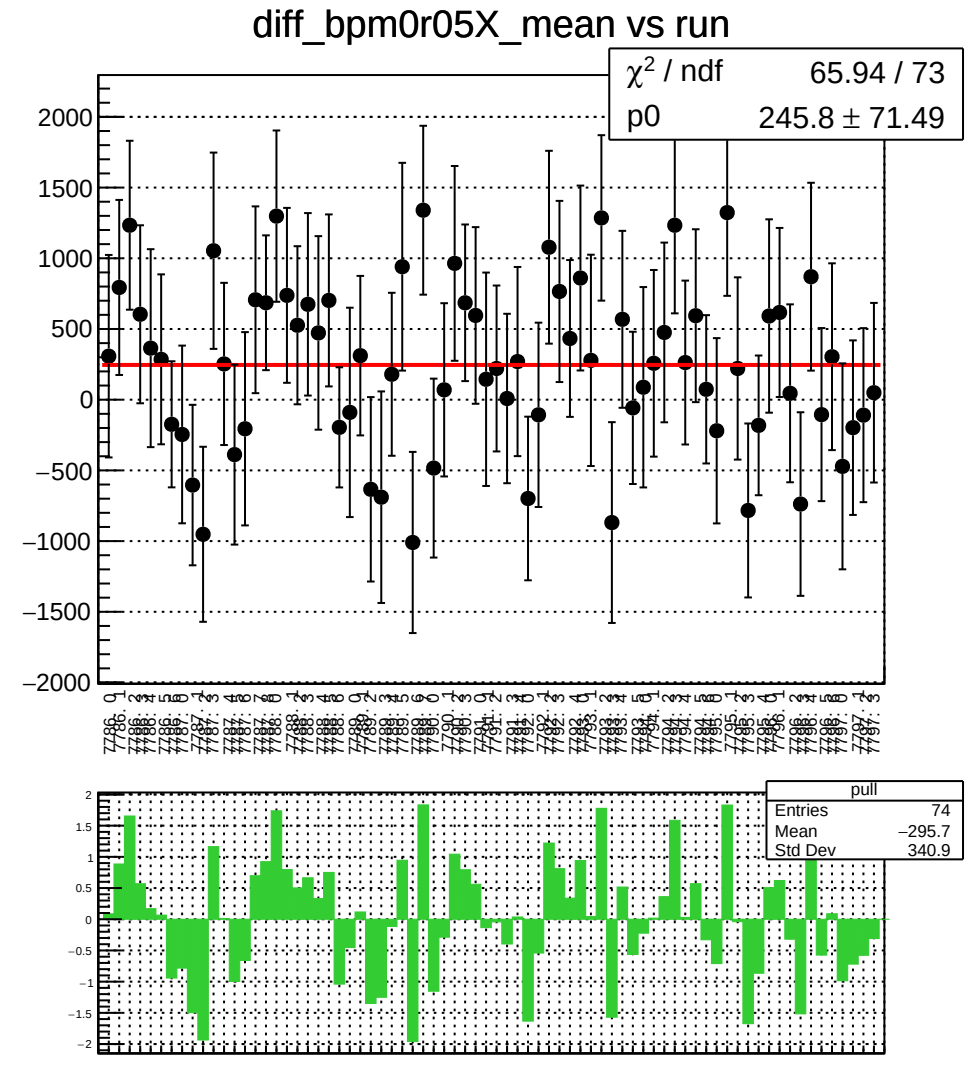

pull1D
Entries 74
Mean −0.009542
Std Dev 0.9465

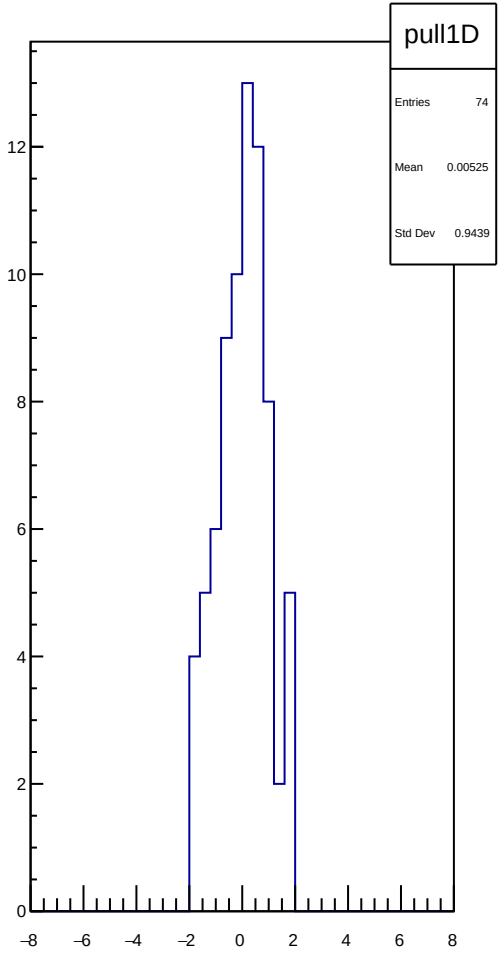

diff_bpm0r03X_rms vs run
χ^2 / ndf 6051 / 73
p0 5.037e+04 ± 42.1
60000
58000
56000
54000
52000
50000
48000
46000
44000

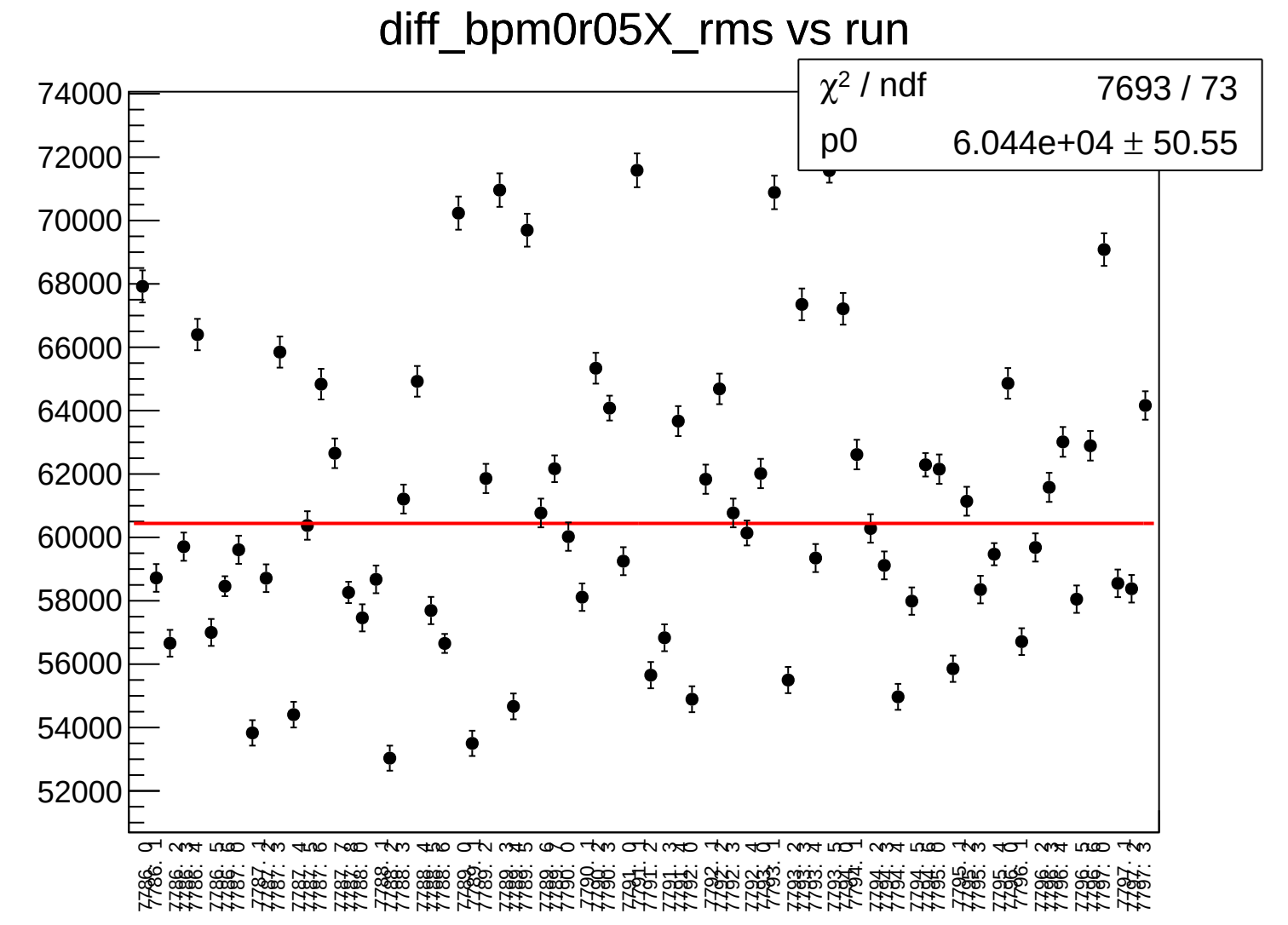

diff_bpm0r03Y_mean vs run
χ² / ndf 95.78 / 73
p0 13.79 ± 1.507
pull
Entries 74
Mean 441.3
Std Dev 409.5

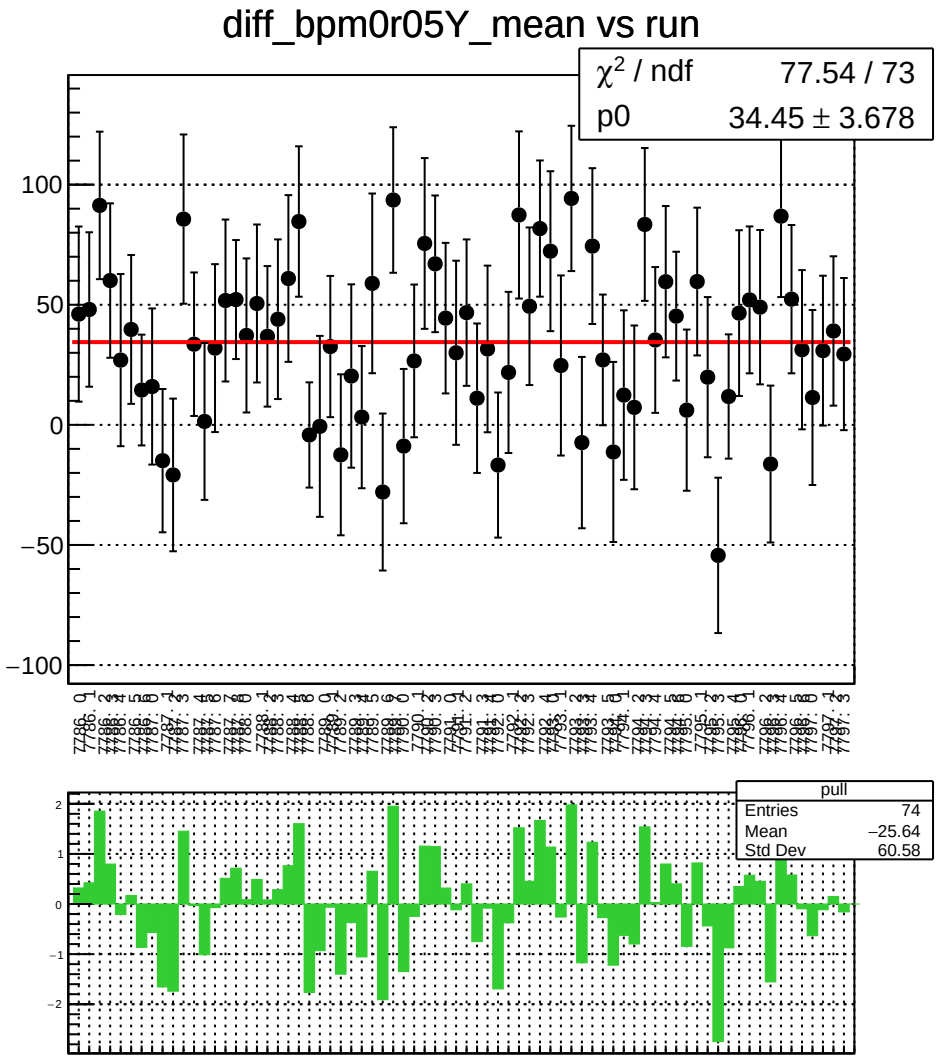

pull1D
Entries 74
Mean −0.004191
Std Dev 1.138

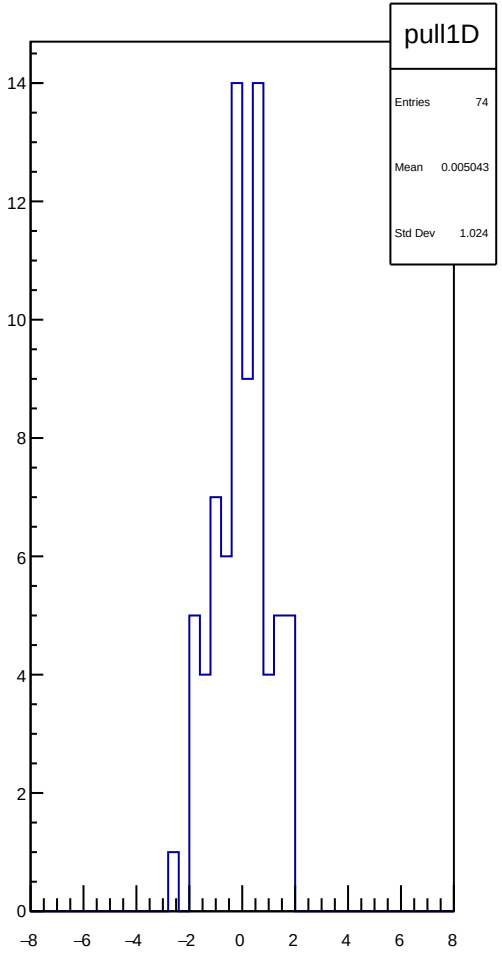

diff_bpm0r03Y_rms vs run
χ^2 / ndf 2258 / 73
p0 1276 ± 1.065
1400
1350
1300
1250
1200
1150

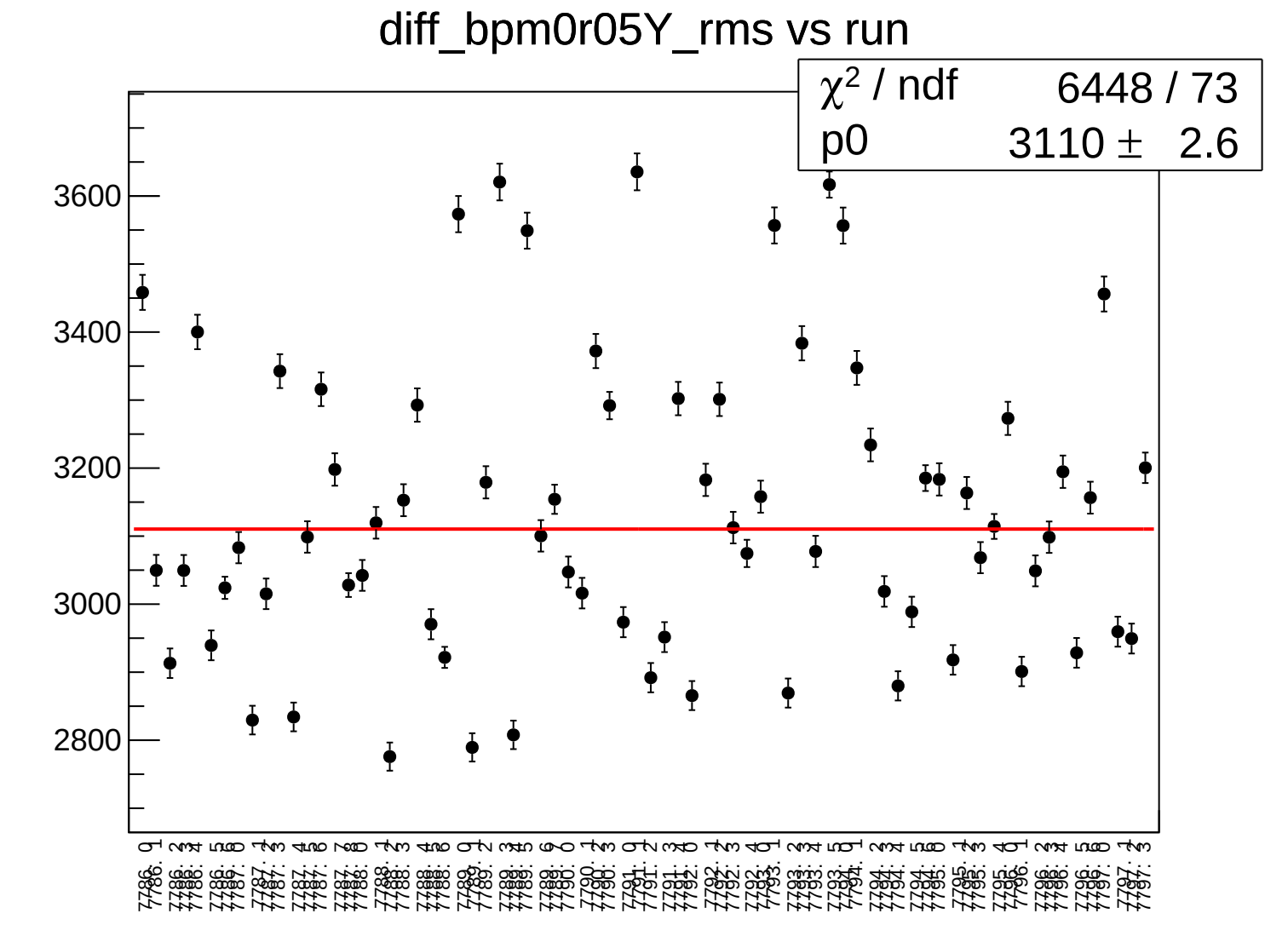

diff_bpm0r05X_mean vs run
χ^2 / ndf 65.94 / 73
p0 245.8 ± 71.49
pull
Entries 74
Mean −295.7
Std Dev 340.9

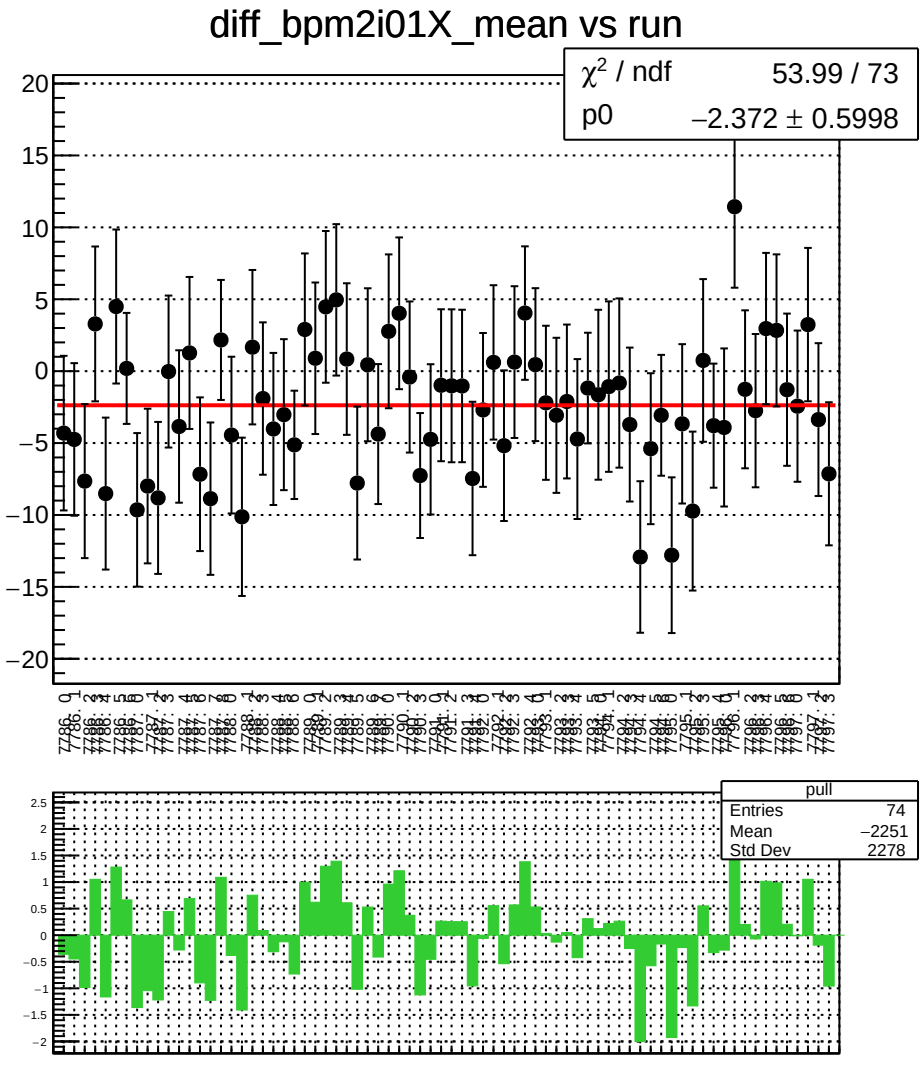

pull1D
Entries 74
Mean 0.00525
Std Dev 0.9439

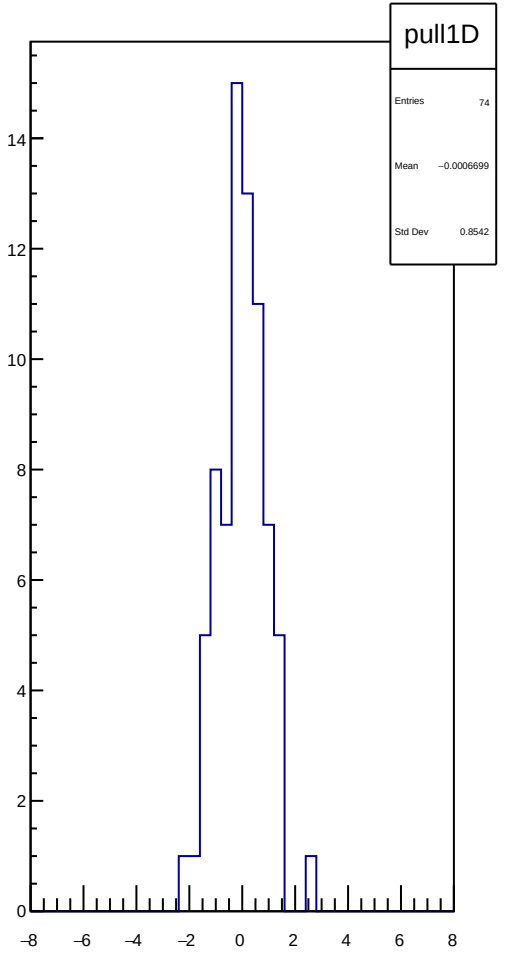

diff_bpm0r05X_rms vs run
χ² / ndf 7693 / 73
p0 6.044e+04 ± 50.55
74000
72000
70000
68000
66000
64000
62000
60000
58000
56000
54000
52000

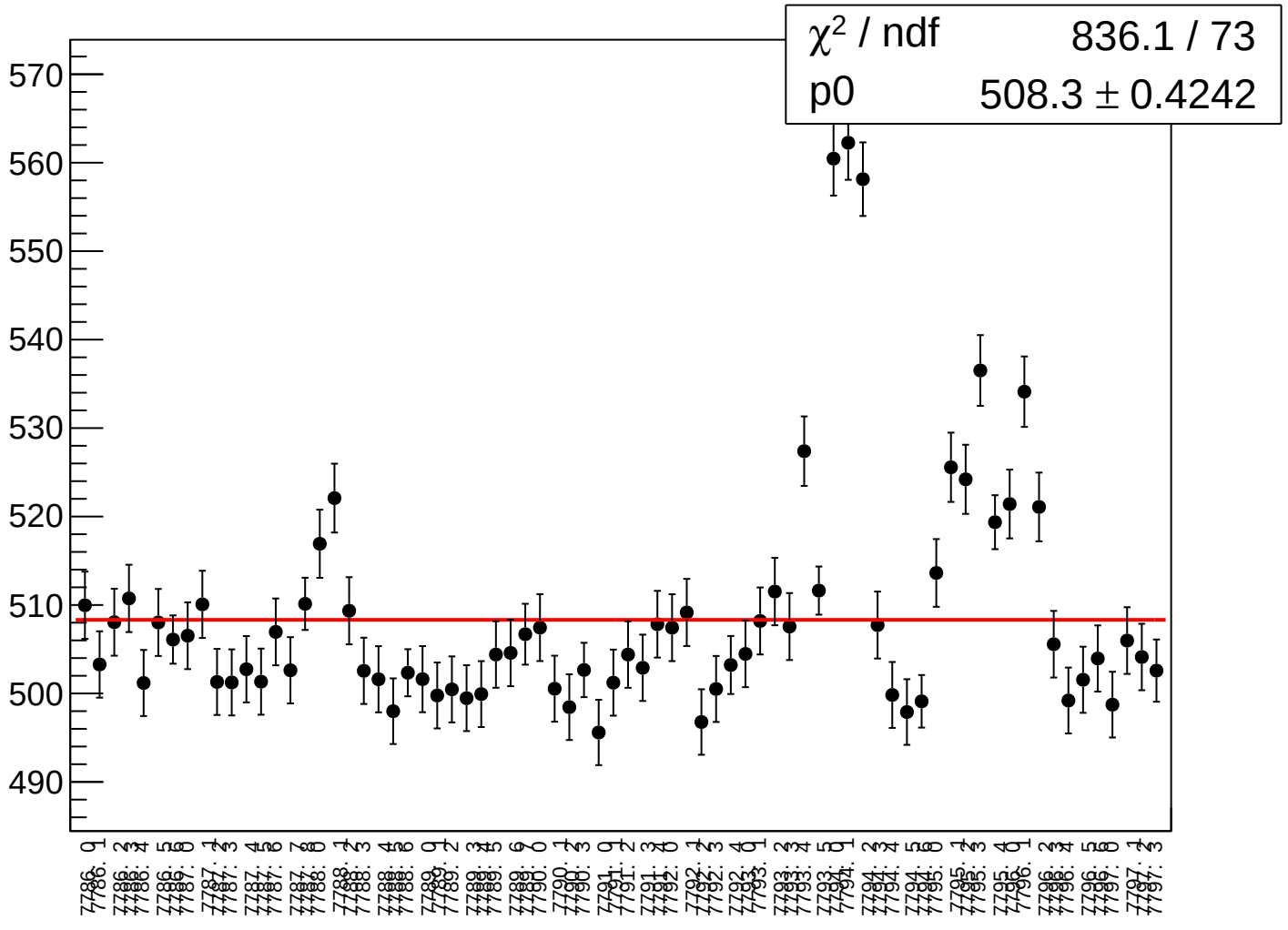

diff_bpm0r05Y_mean vs run
χ^2 / ndf 77.54 / 73
p0 34.45 ± 3.678
100
50
0
−50
−100
pull
Entries 74
Mean −25.64
Std Dev 60.58
2
1
0
−1
−2

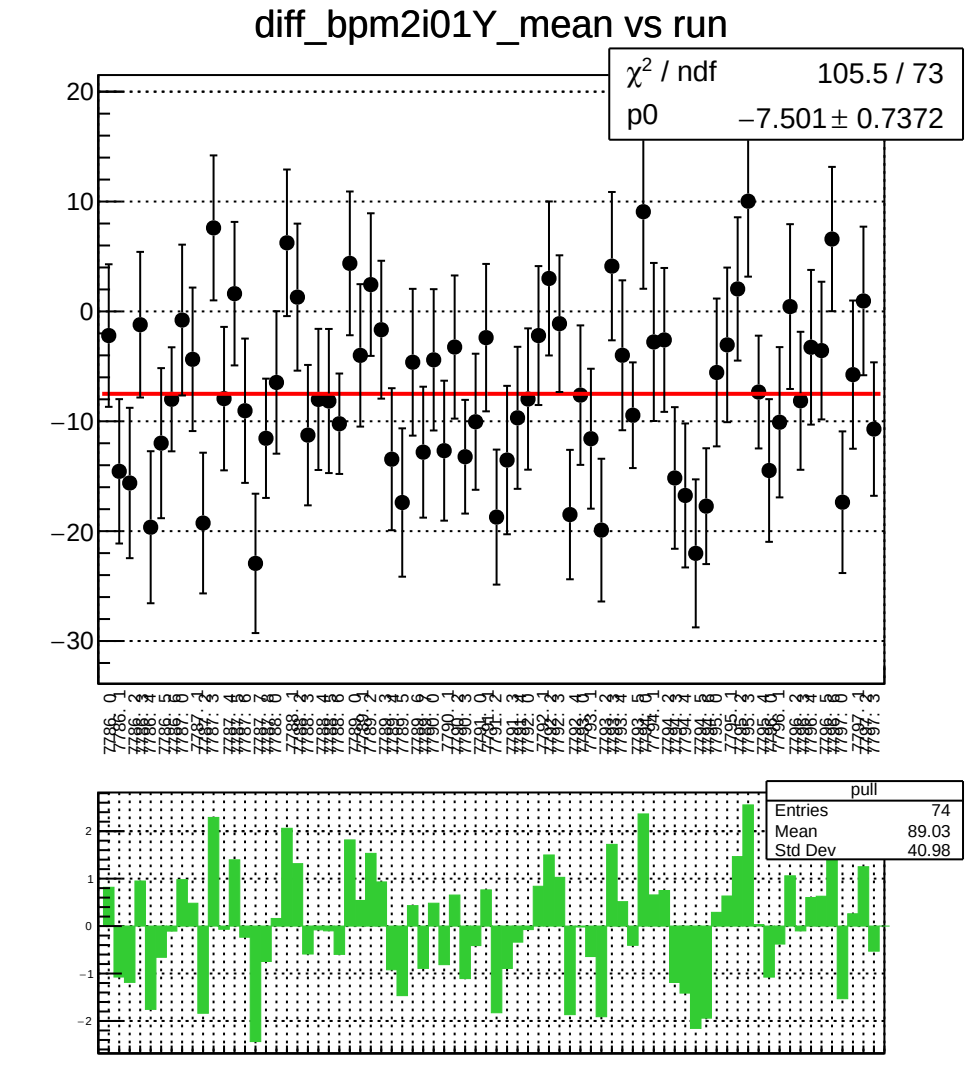

pull1D
Entries 74
Mean 0.005043
Std Dev 1.024
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

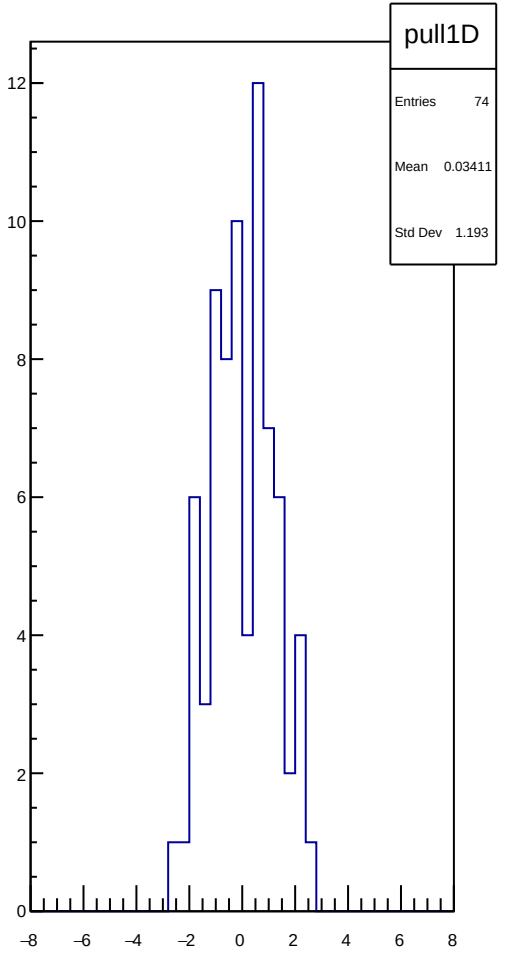

diff_bpm0r05Y_rms vs run
χ² / ndf 6448 / 73
p0 3110 ± 2.6
3600
3400
3200
3000
2800

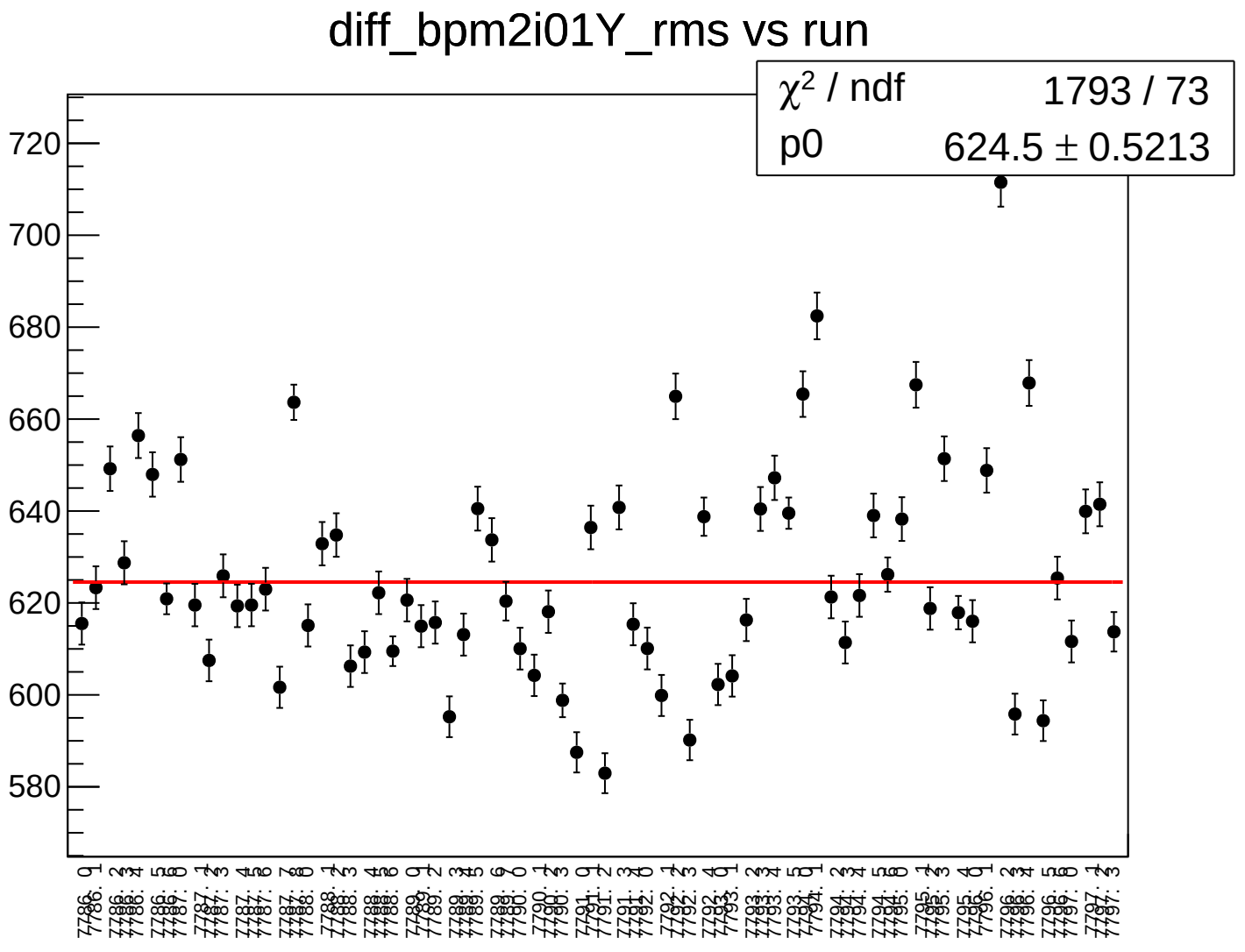

diff_bpm2i01X_mean vs run
χ² / ndf 53.99 / 73
p0 −2.372 ± 0.5998
pull
Entries 74
Mean −2251
Std Dev 2278

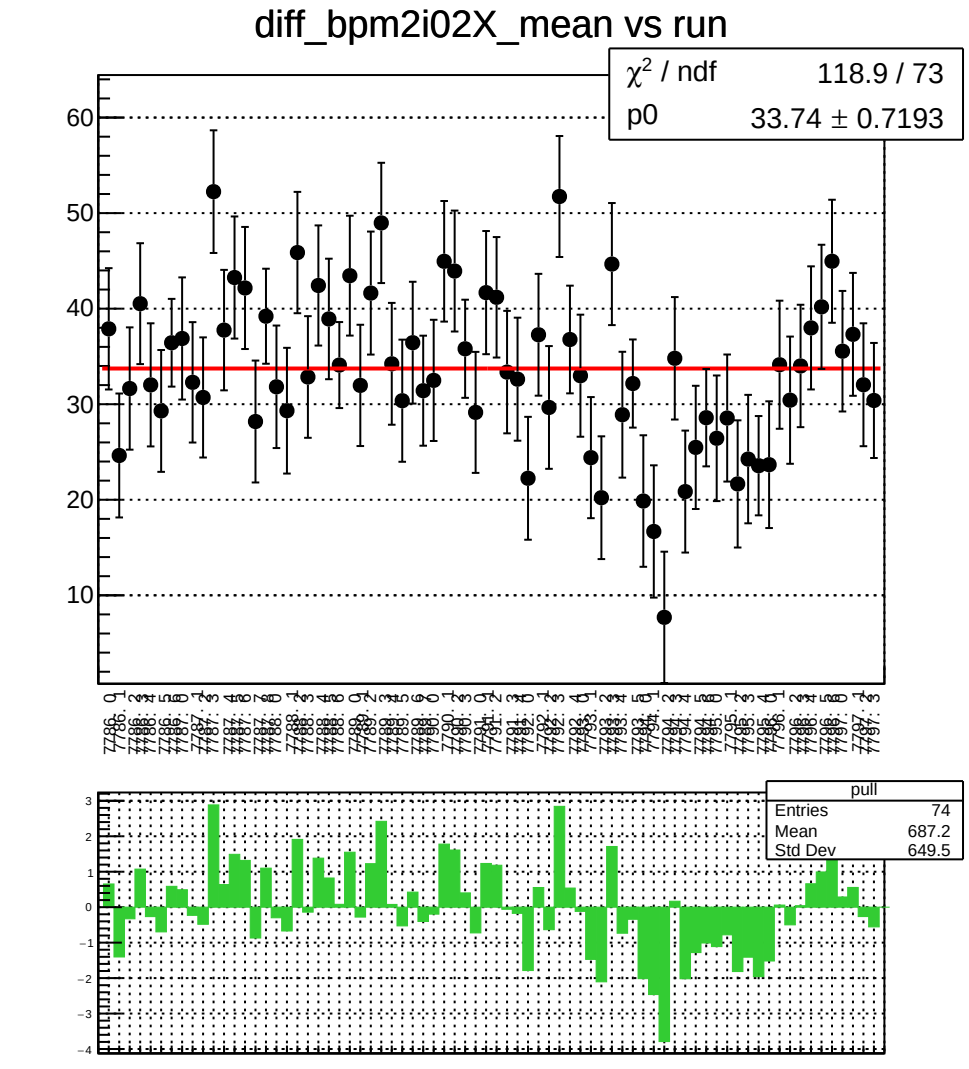

pull1D
Entries 74
Mean −0.0006699
Std Dev 0.8542

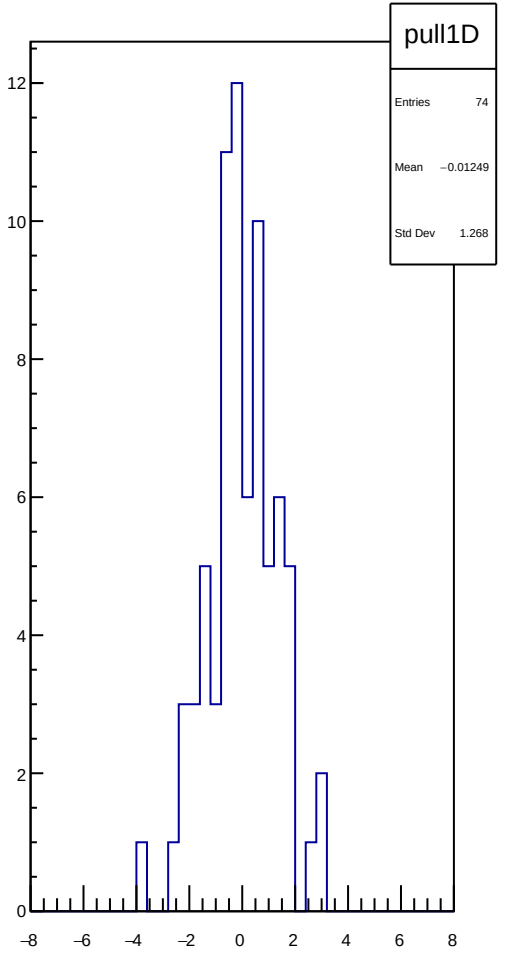

diff_bpm2i01X_rms vs run
χ² / ndf 836.1 / 73
p0 508.3 ± 0.4242
570
560
550
540
530
520
510
500
490

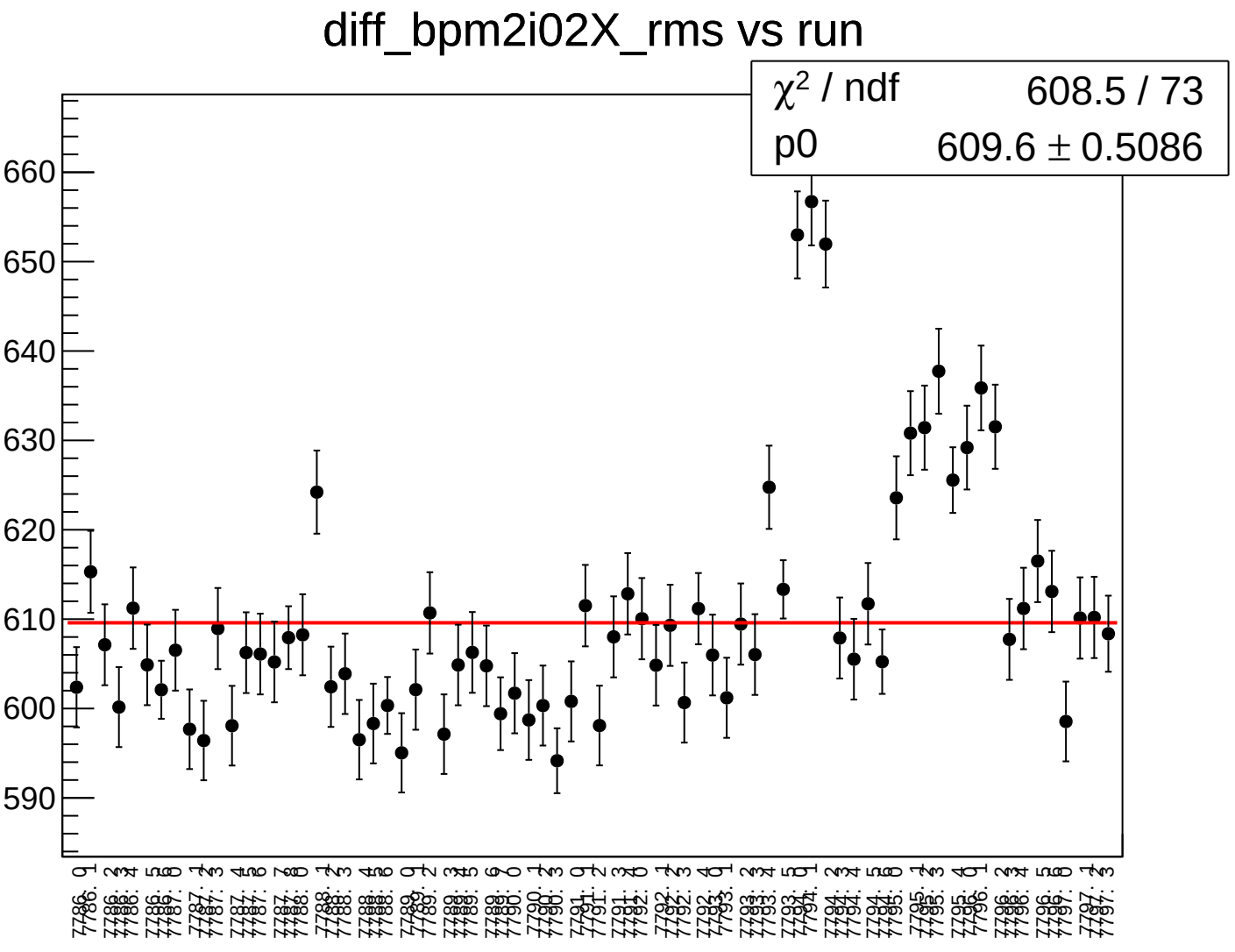

diff_bpm2i01Y_mean vs run
χ² / ndf 105.5 / 73
p0 −7.501 ± 0.7372
pull
Entries 74
Mean 89.03
Std Dev 40.98

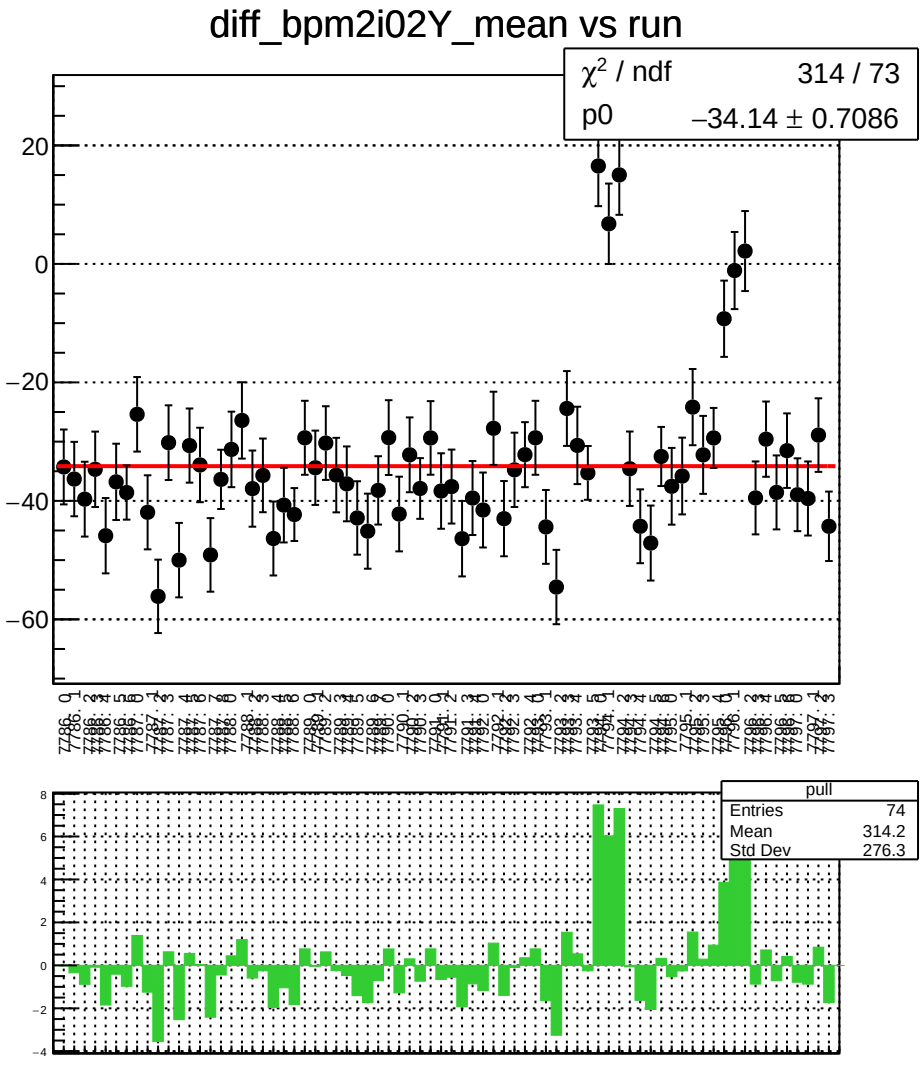

pull1D
Entries 74
Mean 0.03411
Std Dev 1.193

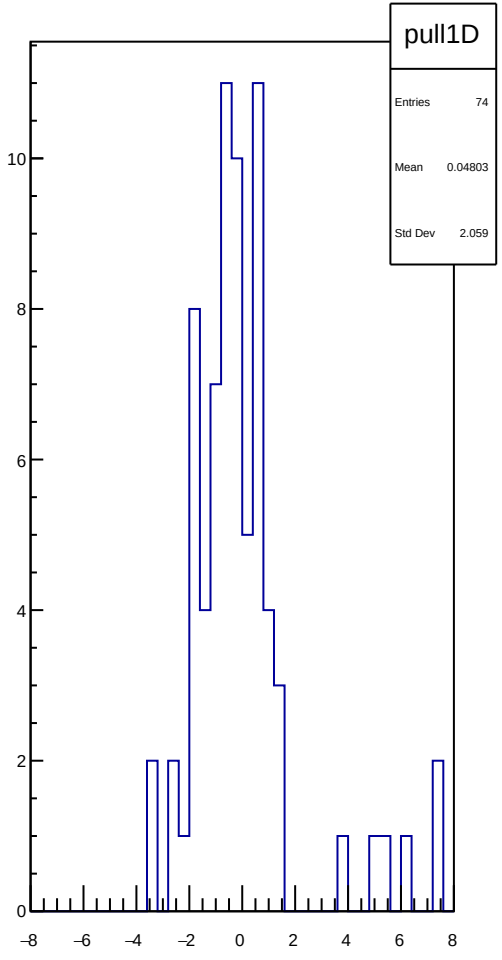

diff_bpm2i01Y_rms vs run
χ² / ndf 1793 / 73
p0 624.5 ± 0.5213
720
700
680
660
640
620
600
580

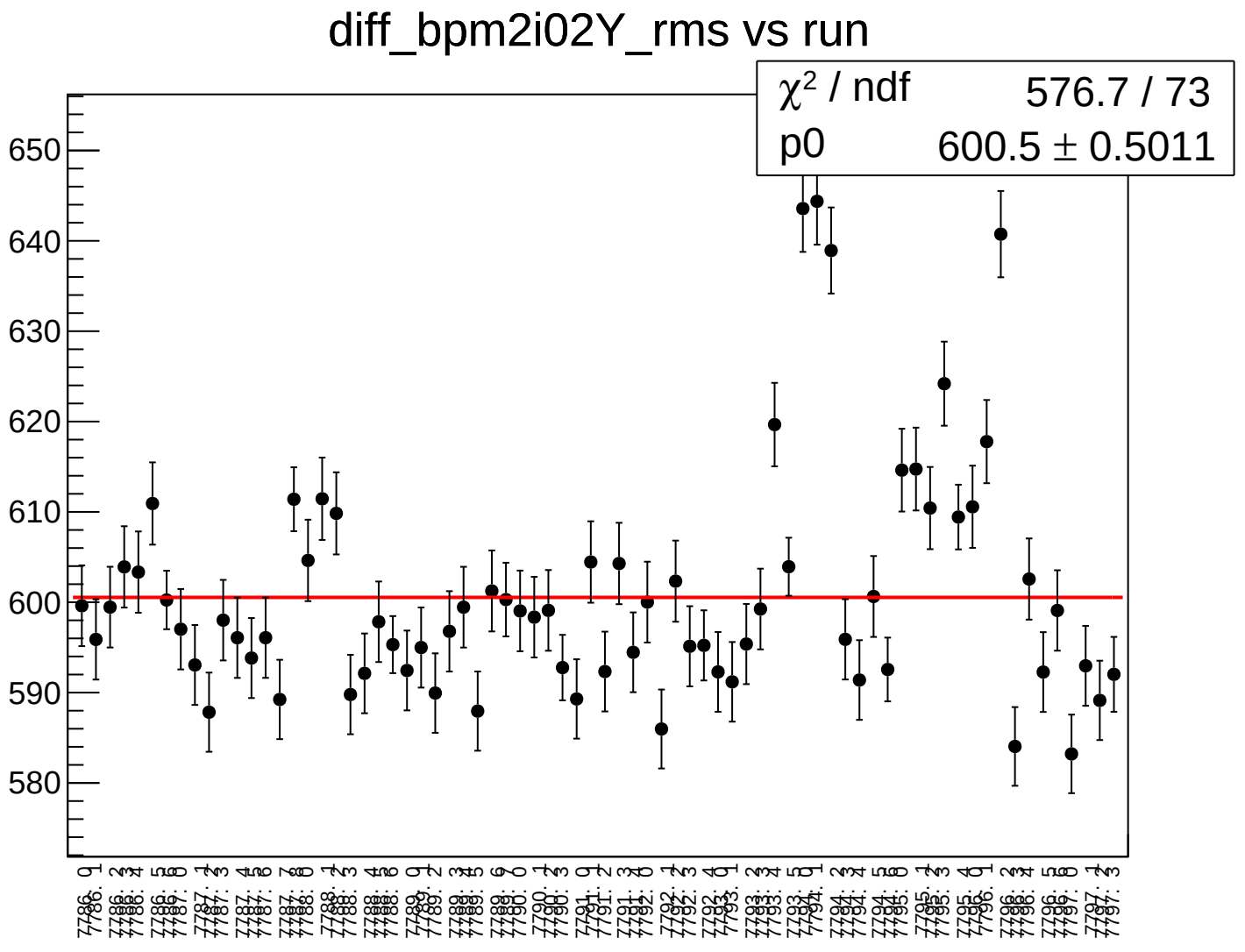

diff_bpm2i02X_mean vs run
χ² / ndf 118.9 / 73
p0 33.74 ± 0.7193
pull
Entries 74
Mean 687.2
Std Dev 649.5

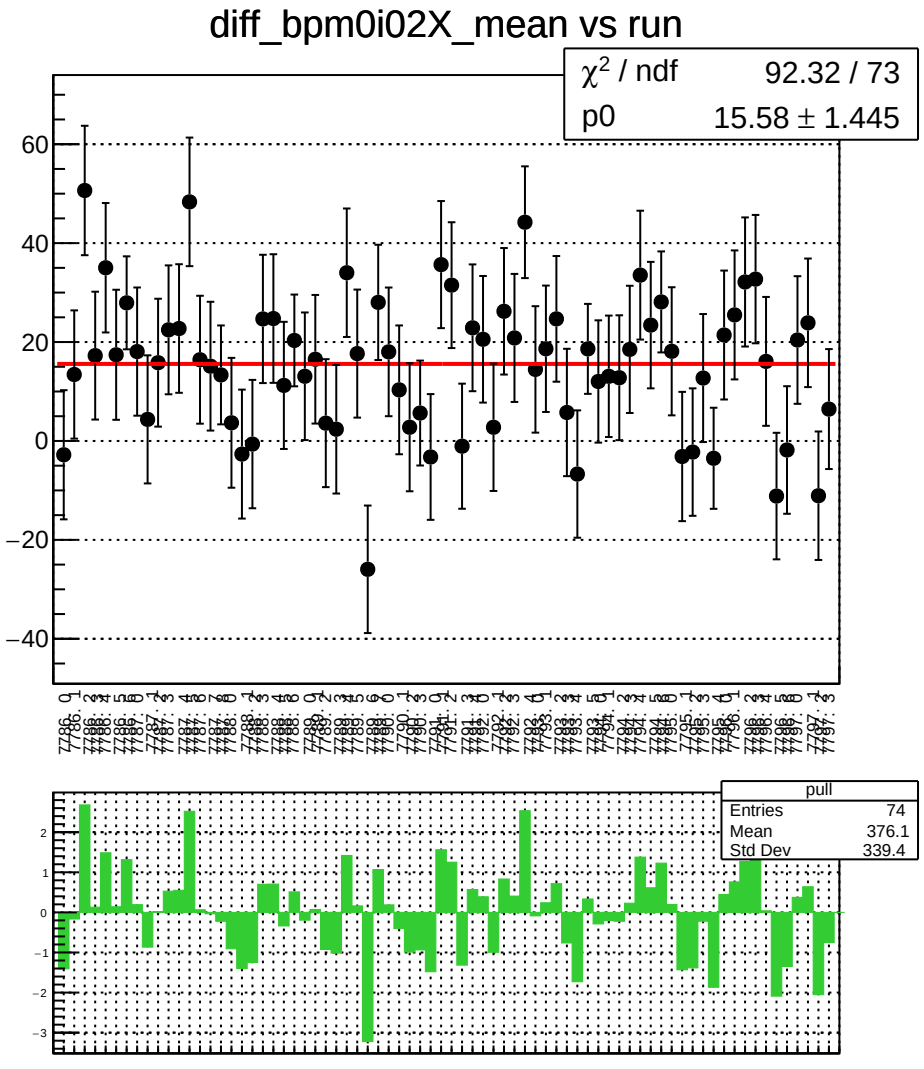

pull1D
Entries 74
Mean −0.01249
Std Dev 1.268

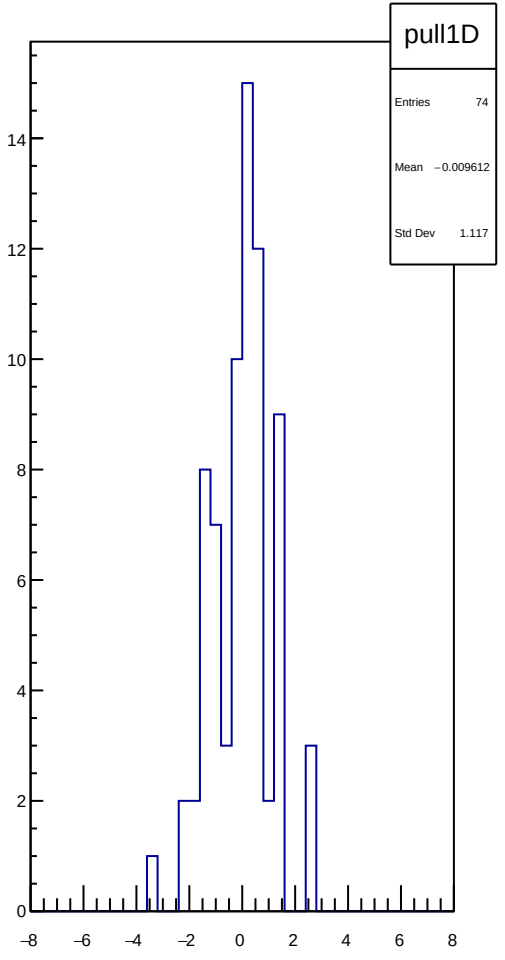

diff_bpm2i02X_rms vs run
χ² / ndf 608.5 / 73
p0 609.6 ± 0.5086
660
650
640
630
620
610
600
590

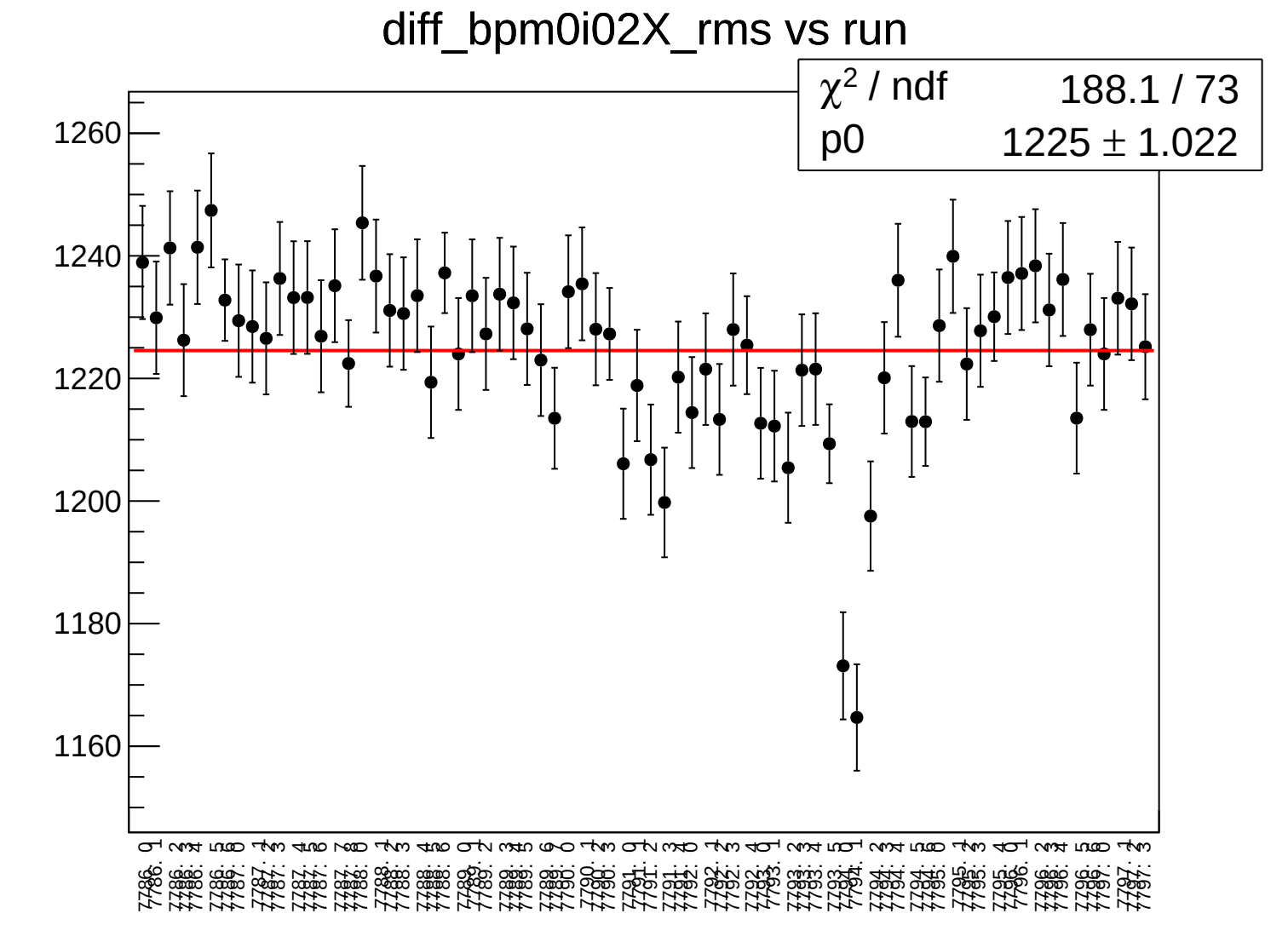

diff_bpm2i02Y_mean vs run
χ² / ndf 314 / 73
p0 −34.14 ± 0.7086
pull
Entries 74
Mean 314.2
Std Dev 276.3

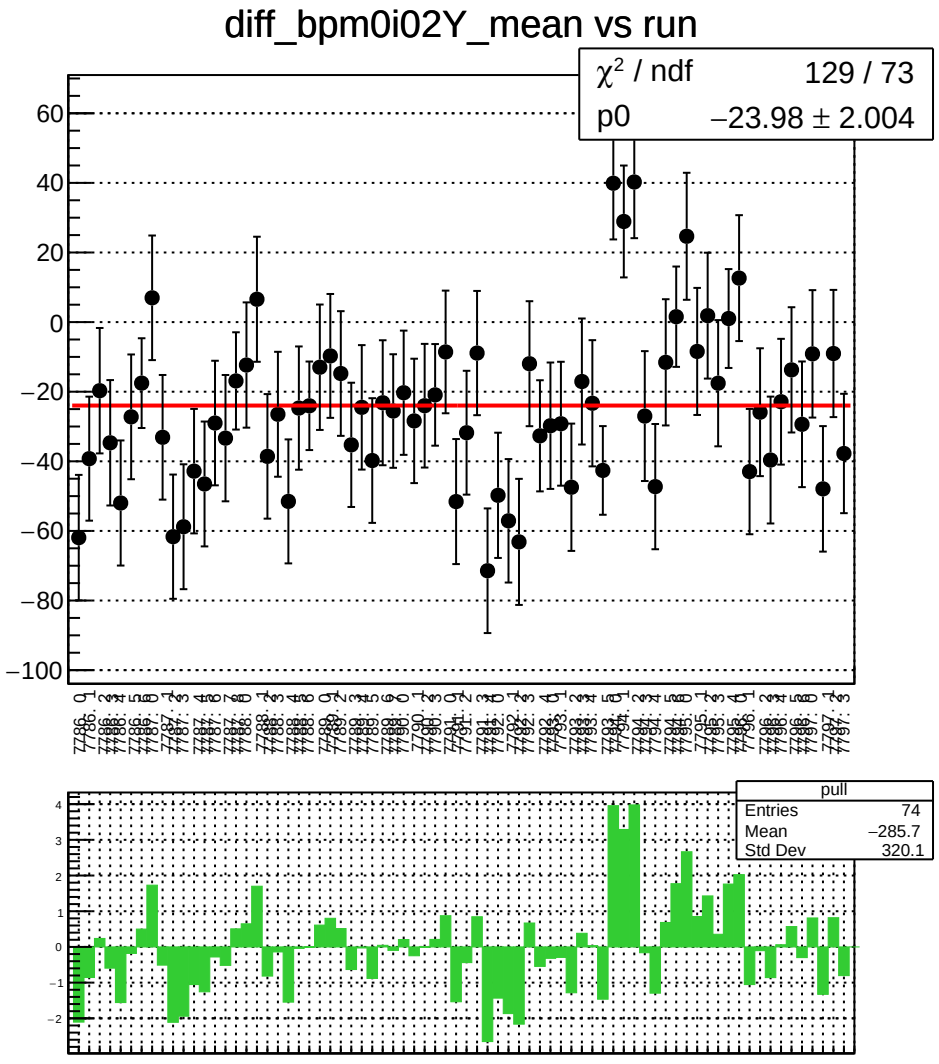

pull1D
Entries 74
Mean 0.04803
Std Dev 2.059

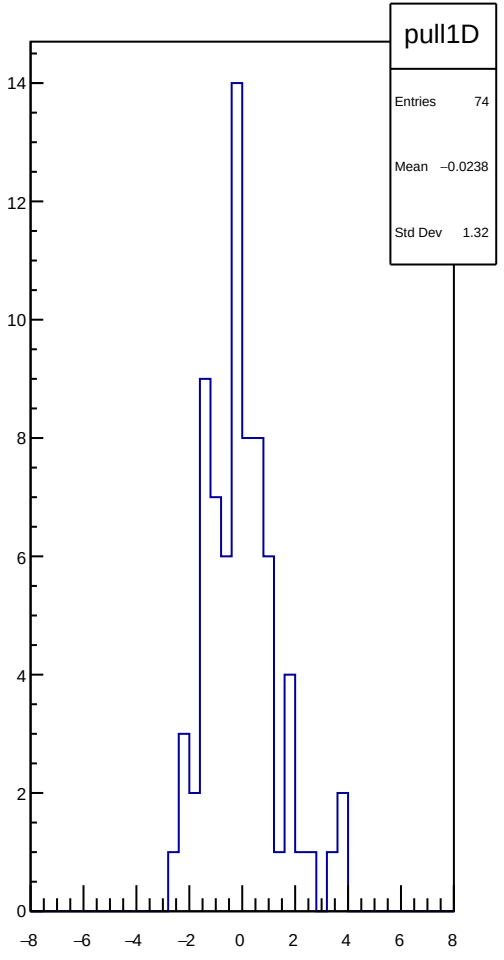

diff_bpm2i02Y_rms vs run
χ² / ndf 576.7 / 73
p0 600.5 ± 0.5011
650
640
630
620
610
600
590
580

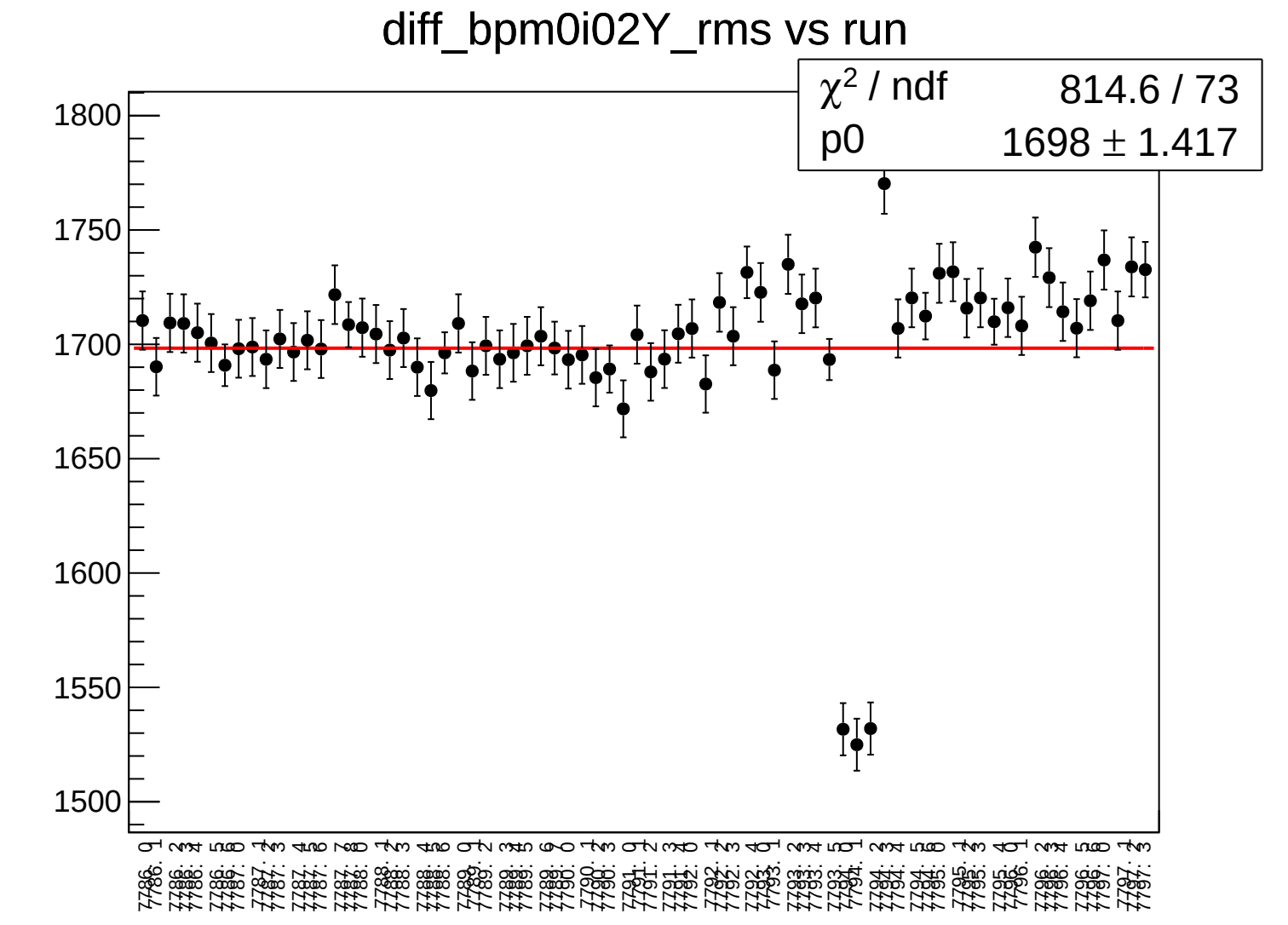

diff_bpm0i02X_mean vs run
χ^2 / ndf 92.32 / 73
p0 15.58 ± 1.445
pull
Entries 74
Mean 376.1
Std Dev 339.4

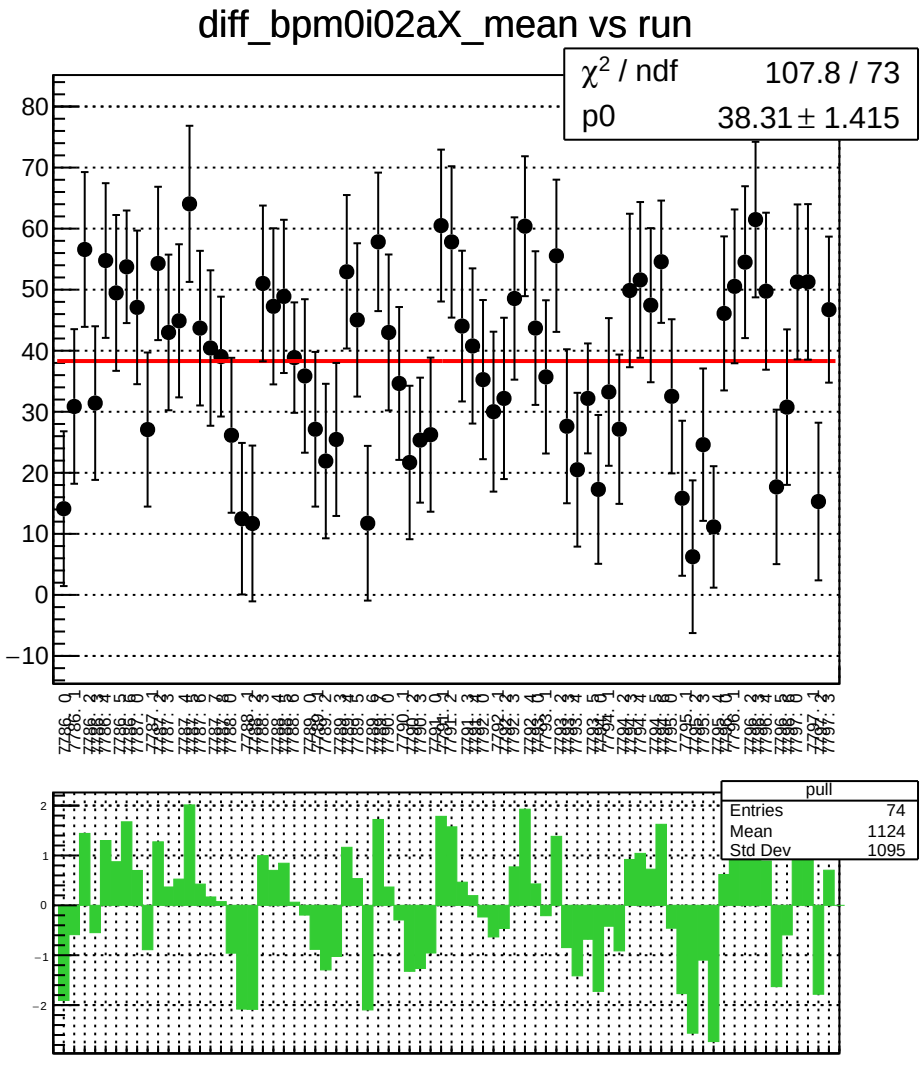

pull1D
Entries 74
Mean −0.009612
Std Dev 1.117

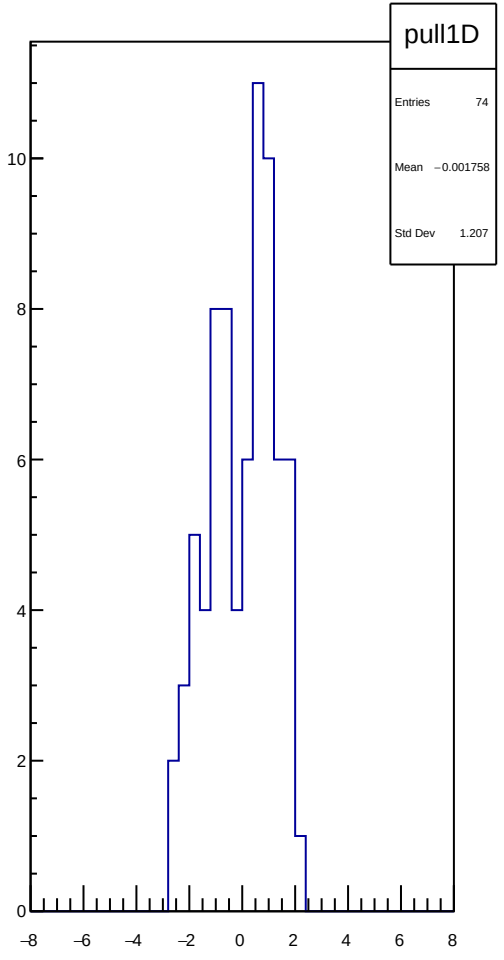

diff_bpm0i02X_rms vs run
χ² / ndf 188.1 / 73
p0 1225 ± 1.022
1260
1240
1220
1200
1180
1160

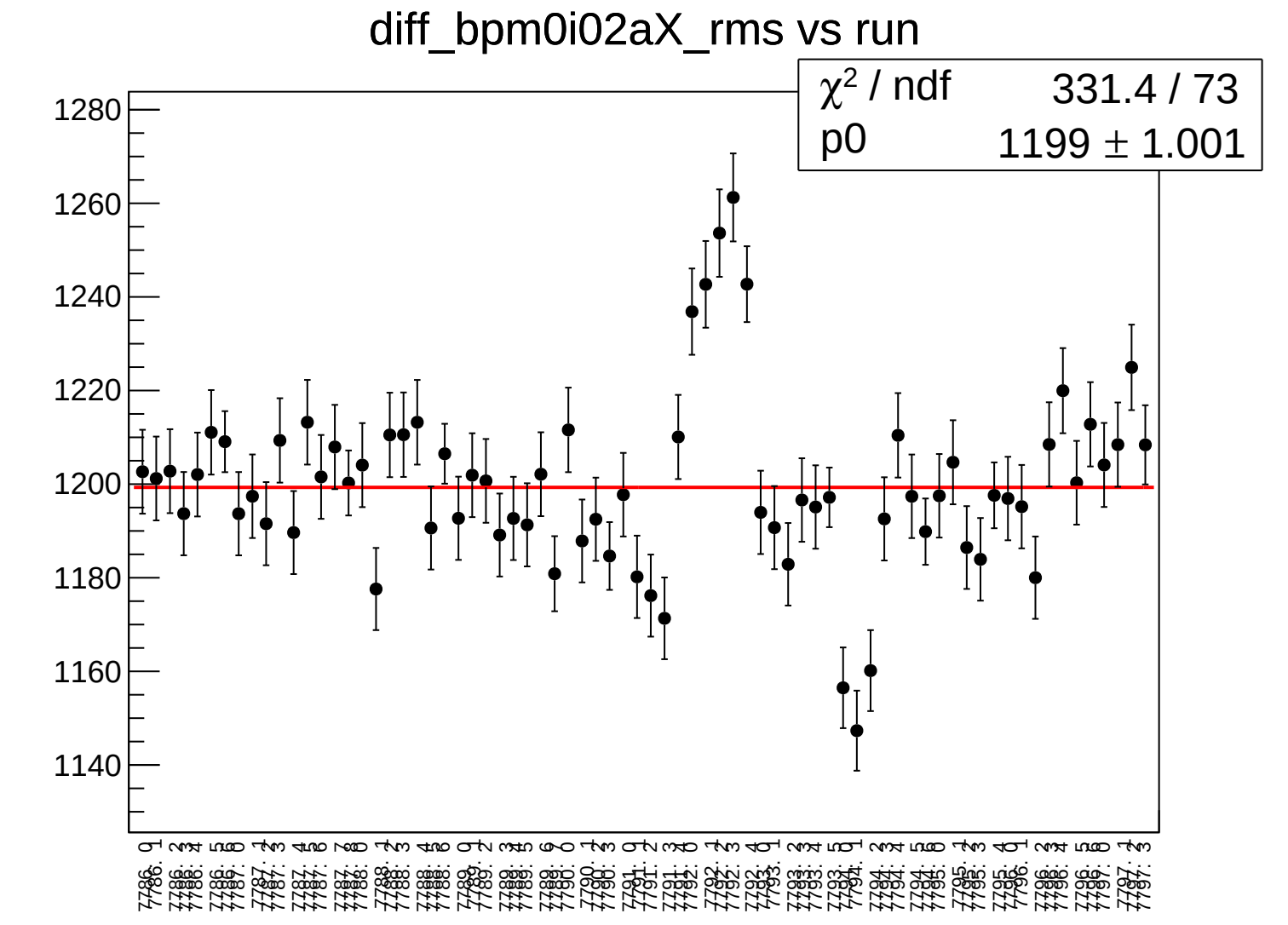

diff_bpm0i02Y_mean vs run
χ² / ndf 129 / 73
p0 −23.98 ± 2.004
pull
Entries 74
Mean −285.7
Std Dev 320.1

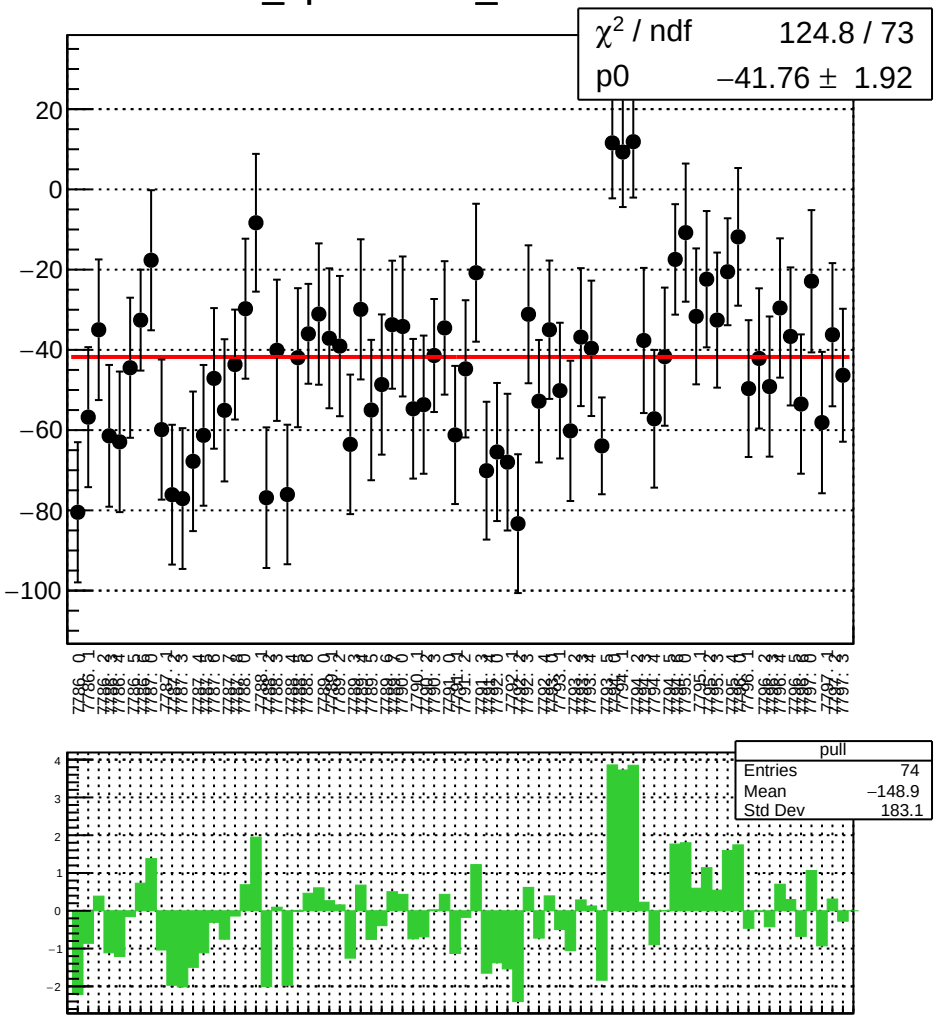

pull1D
Entries 74
Mean −0.0238
Std Dev 1.32

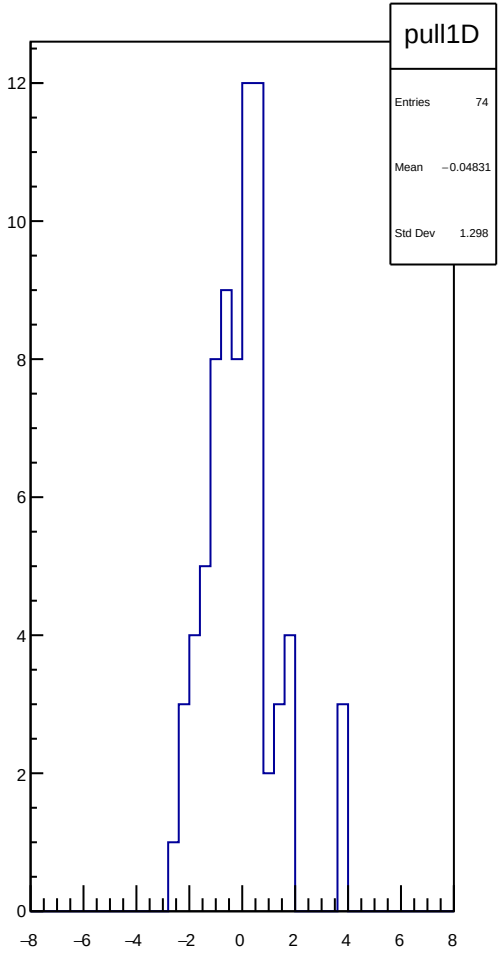

diff_bpm0i02Y_rms vs run
χ² / ndf 814.6 / 73
p0 1698 ± 1.417
1800
1750
1700
1650
1600
1550
1500

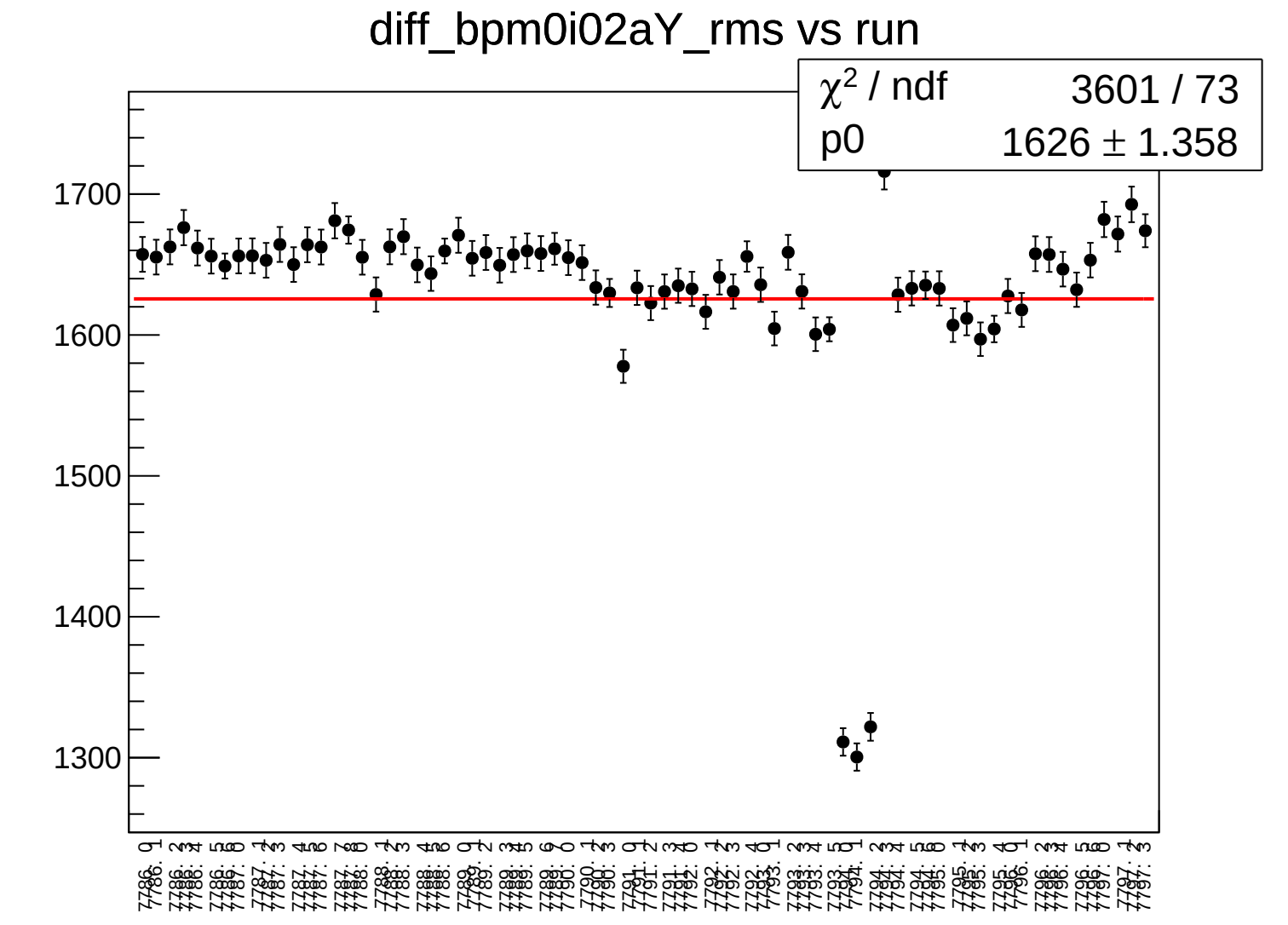

diff_bpm0i02aX_mean vs run
χ² / ndf 107.8 / 73
p0 38.31 ± 1.415
pull
Entries 74
Mean 1124
Std Dev 1095

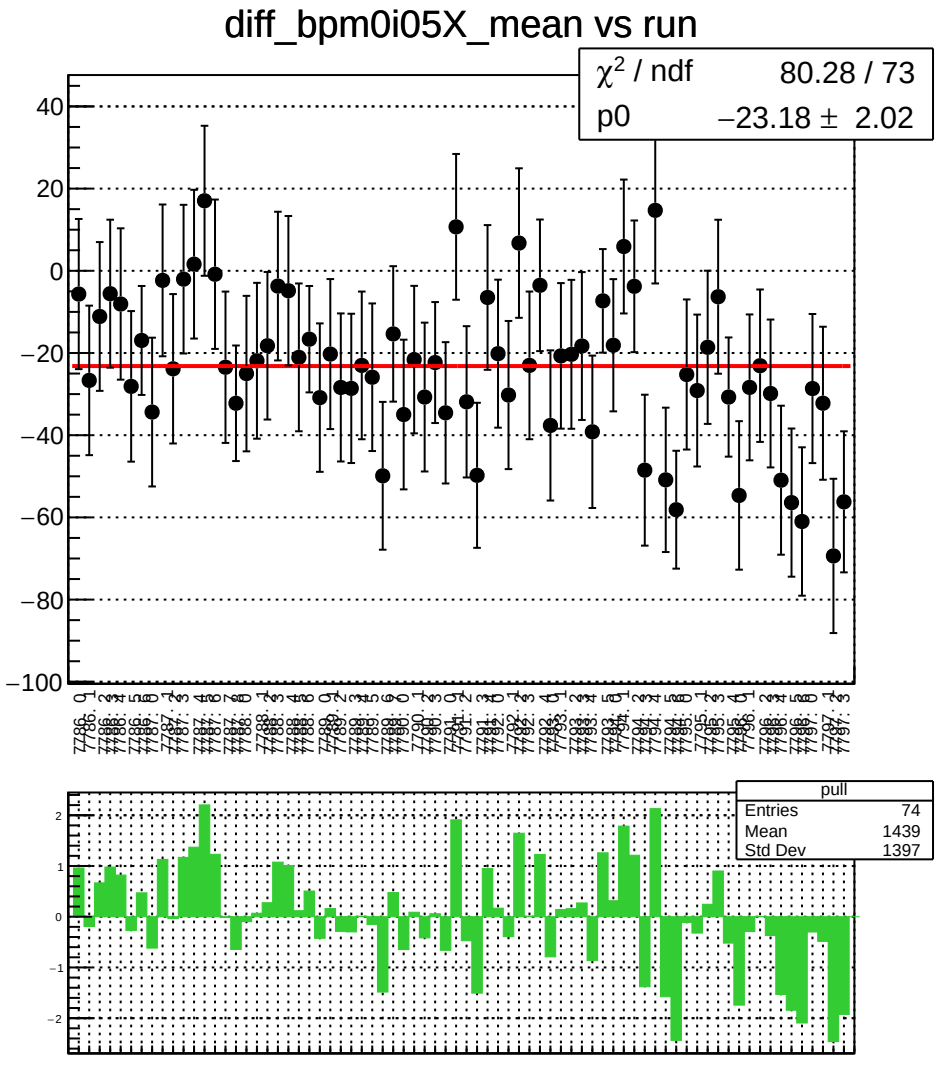

pull1D
Entries 74
Mean −0.001758
Std Dev 1.207

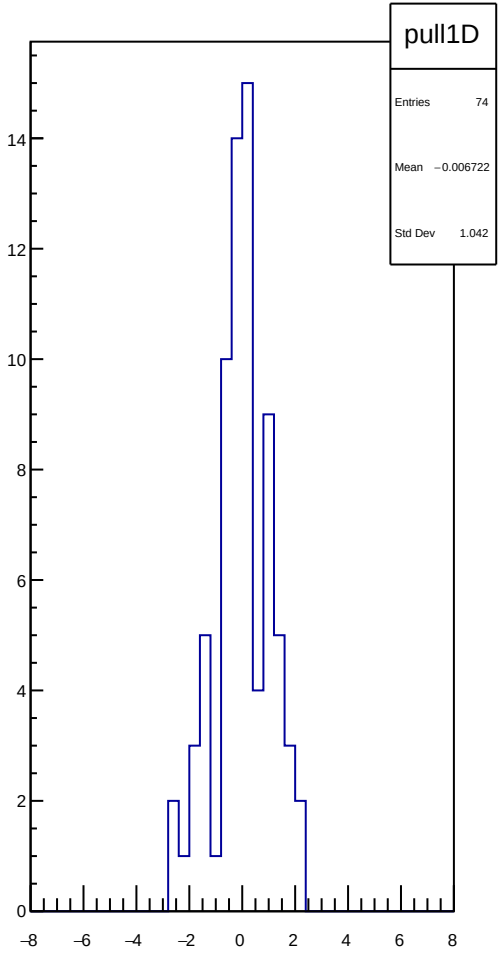

diff_bpm0i02aX_rms vs run
χ² / ndf 331.4 / 73
p0 1199 ± 1.001
1280
1260
1240
1220
1200
1180
1160
1140

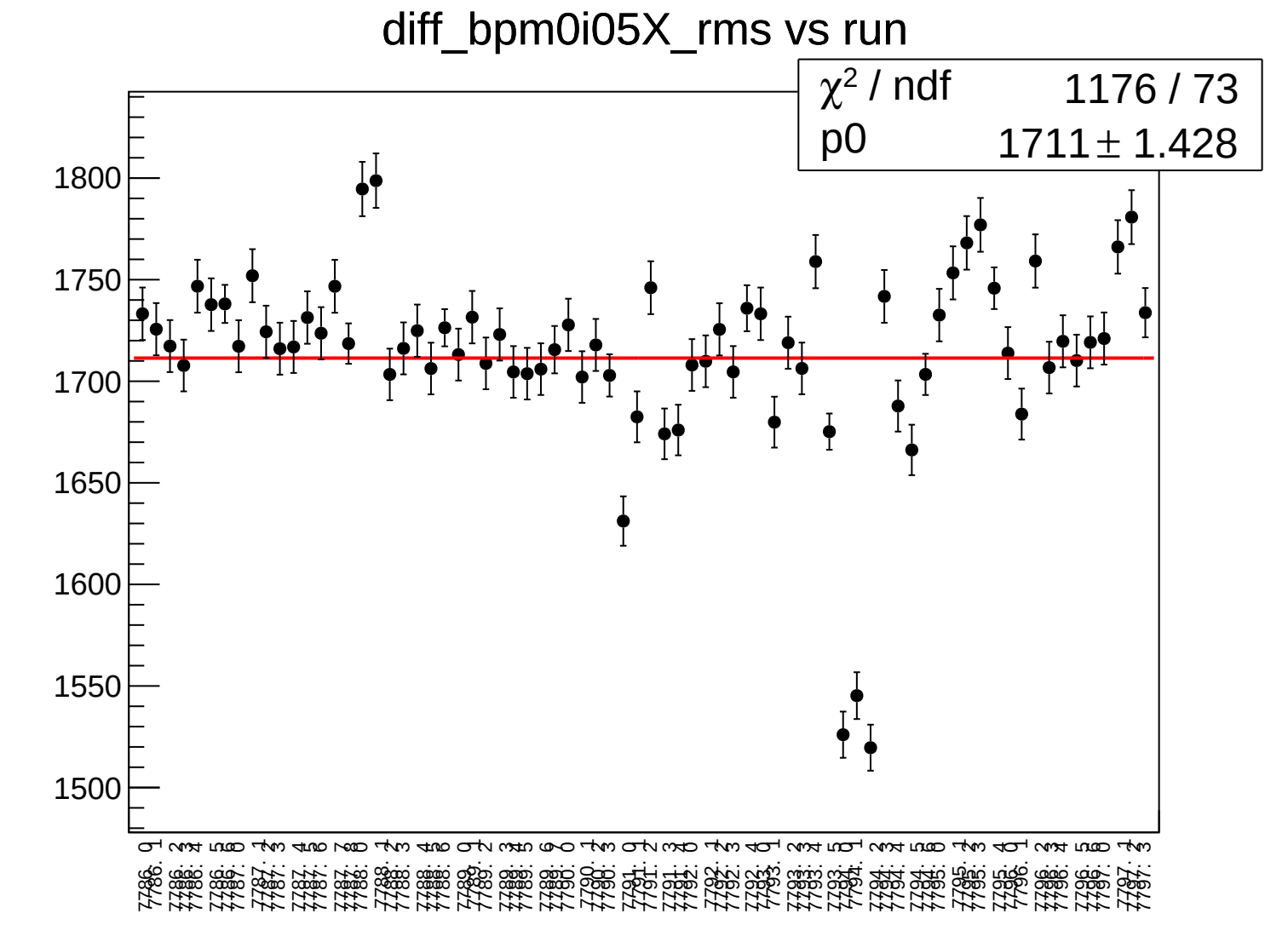

diff_bpm0i02aY_mean vs run
χ² / ndf 124.8 / 73
p0 −41.76 ± 1.92
pull
Entries 74
Mean −148.9
Std Dev 183.1

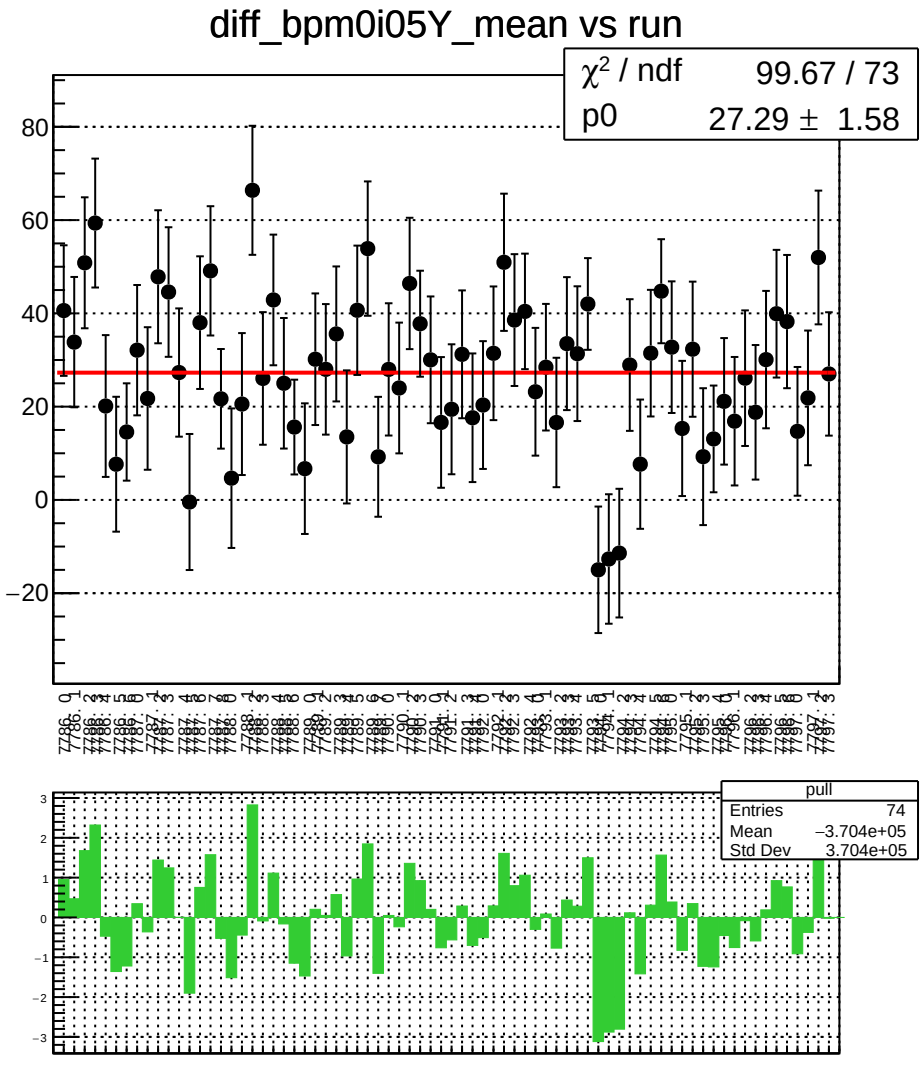

pull1D
Entries 74
Mean −0.04831
Std Dev 1.298

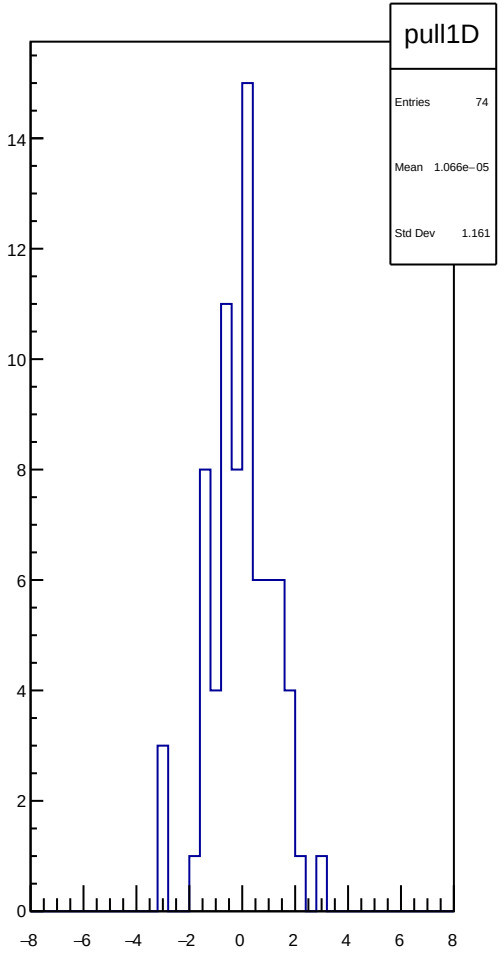

diff_bpm0i02aY_rms vs run
χ² / ndf 3601 / 73
p0 1626 ± 1.358
1700
1600
1500
1400
1300

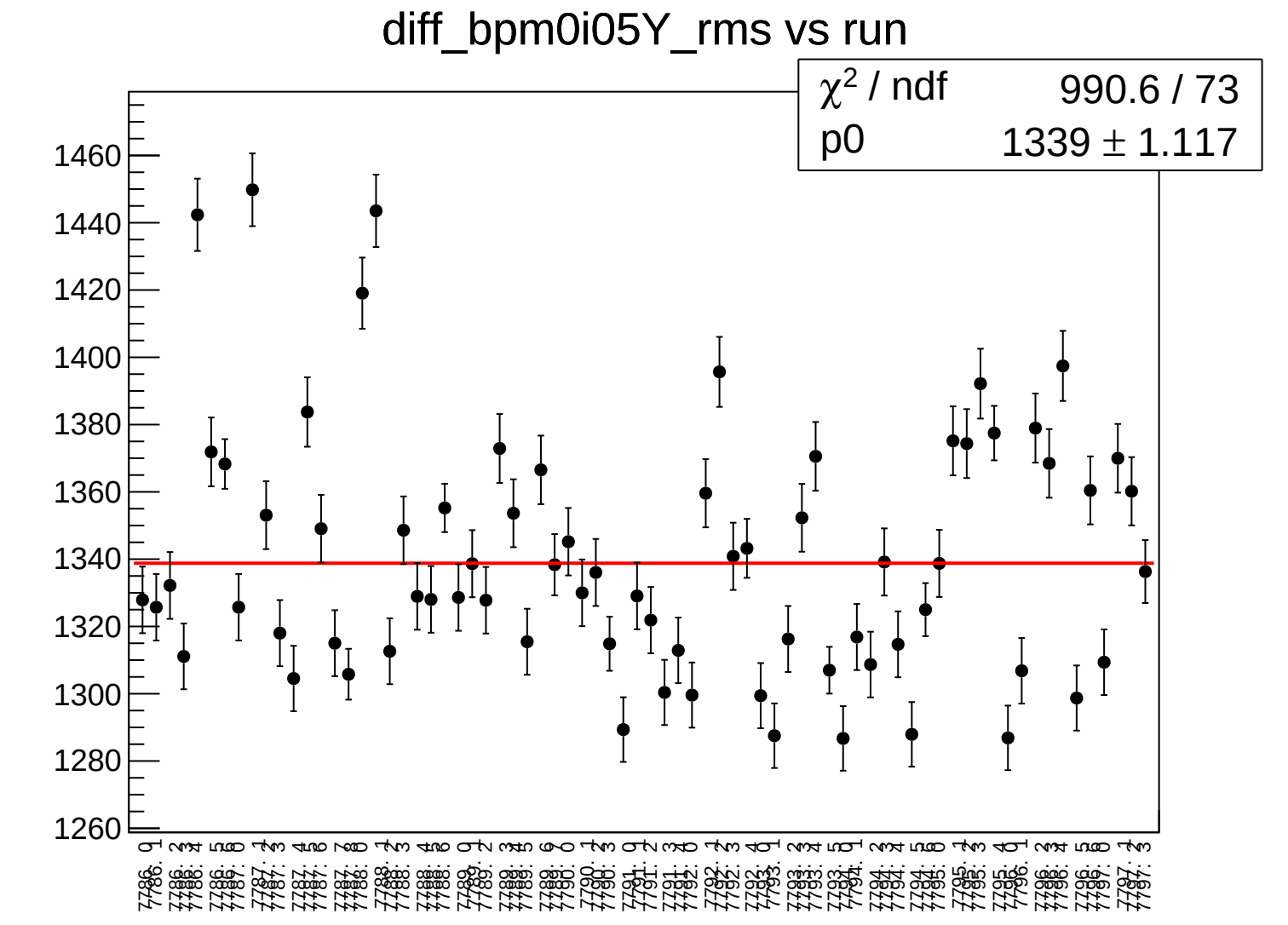

diff_bpm0i05X_mean vs run
χ^2 / ndf 80.28 / 73
p0 −23.18 ± 2.02
pull
Entries 74
Mean 1439
Std Dev 1397

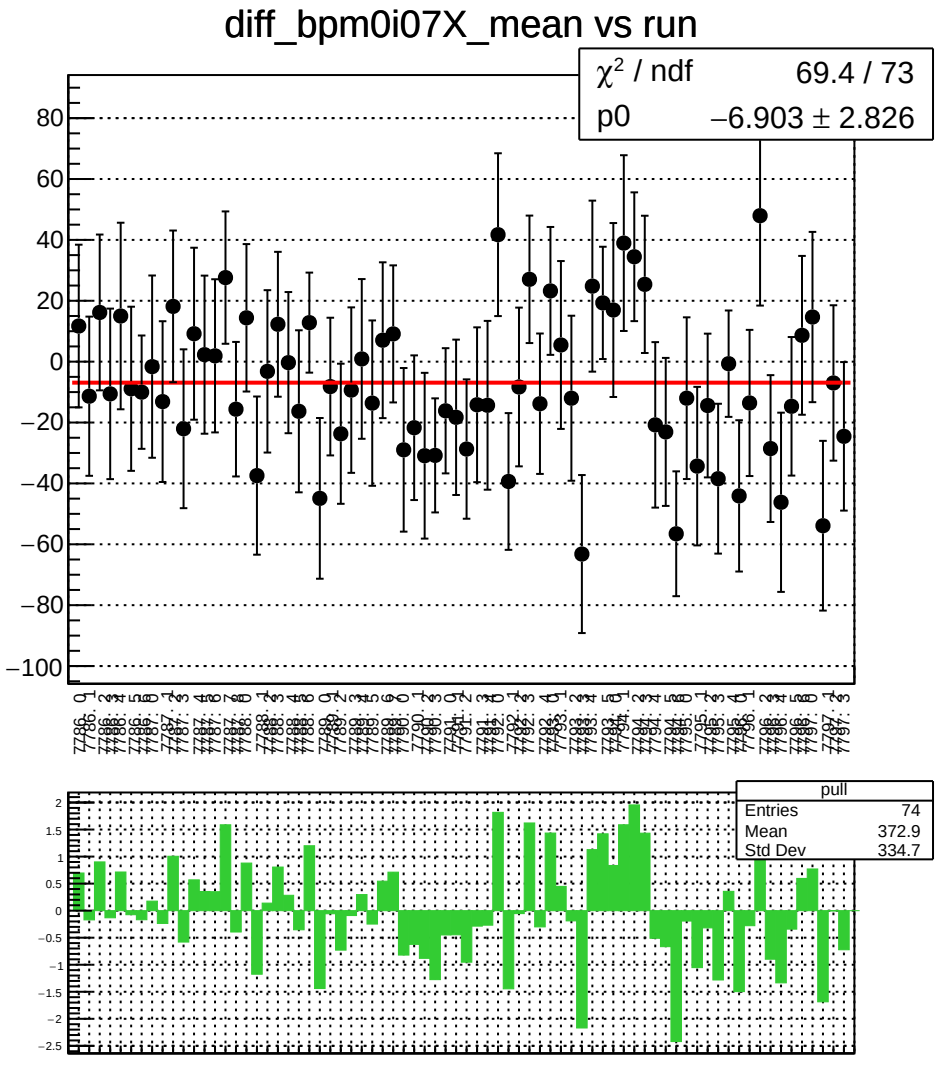

pull1D
Entries 74
Mean −0.006722
Std Dev 1.042

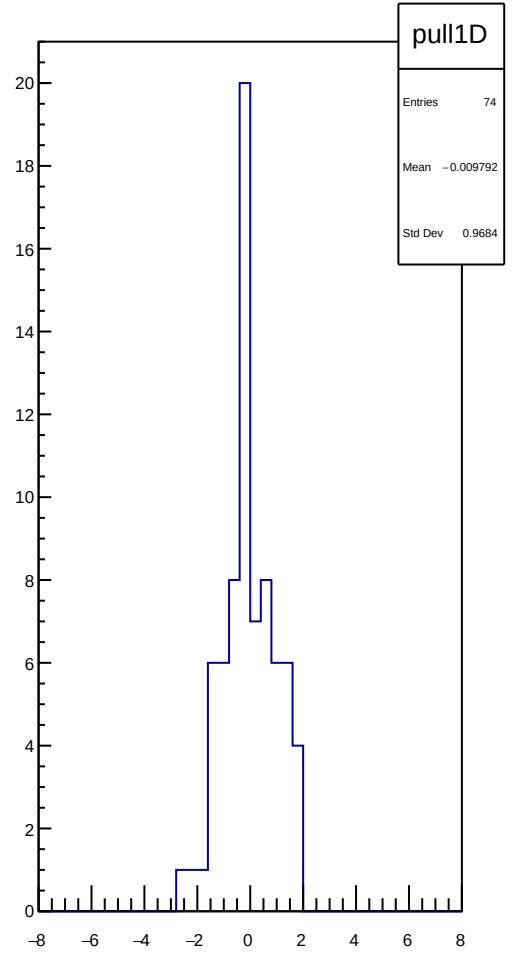

diff_bpm0i05X_rms vs run
χ² / ndf 1176 / 73
p0 1711 ± 1.428
1800
1750
1700
1650
1600
1550
1500

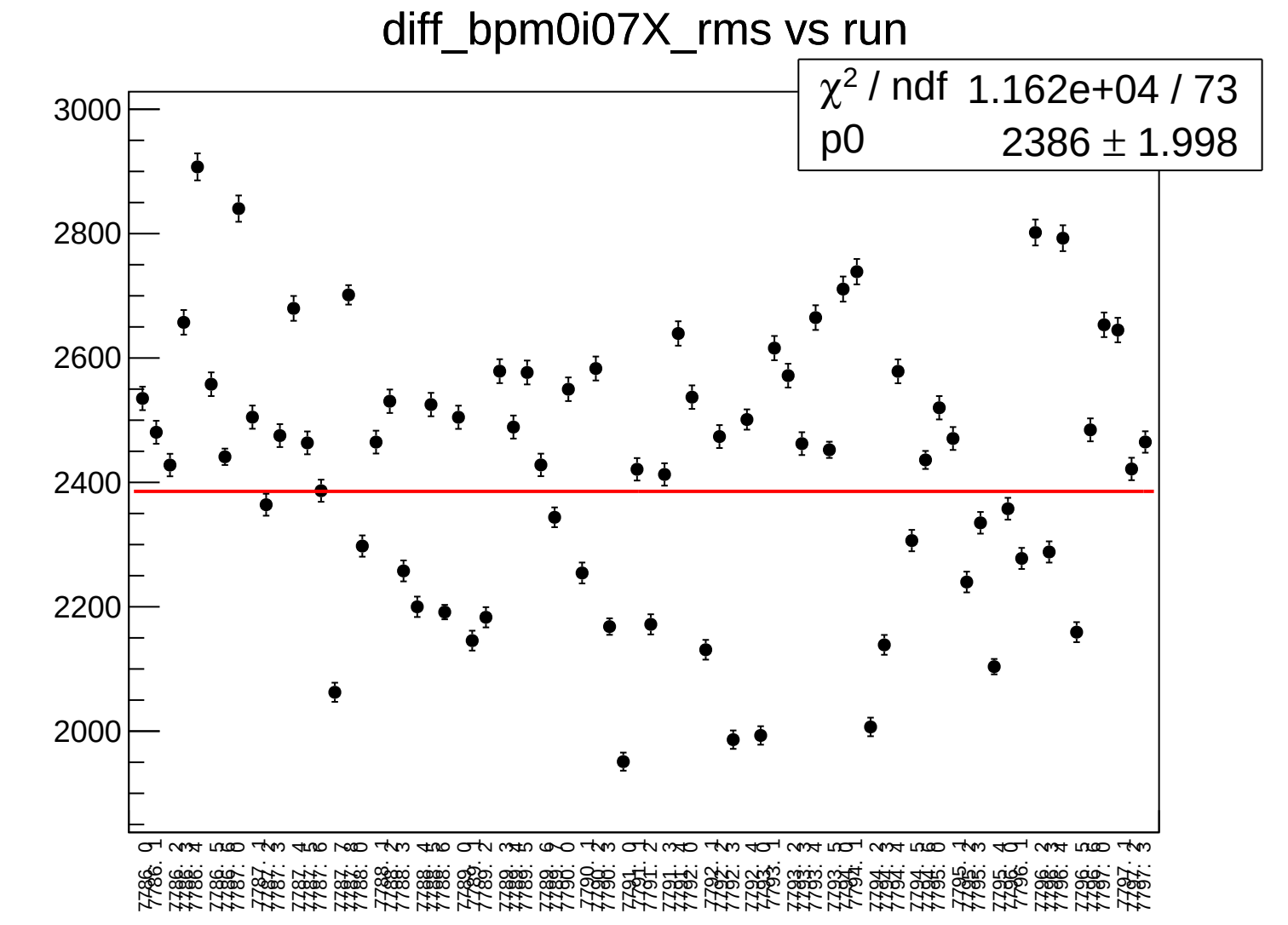

diff_bpm0i05Y_mean vs run
χ² / ndf 99.67 / 73
p0 27.29 ± 1.58
pull
Entries 74
Mean −3.704e+05
Std Dev 3.704e+05

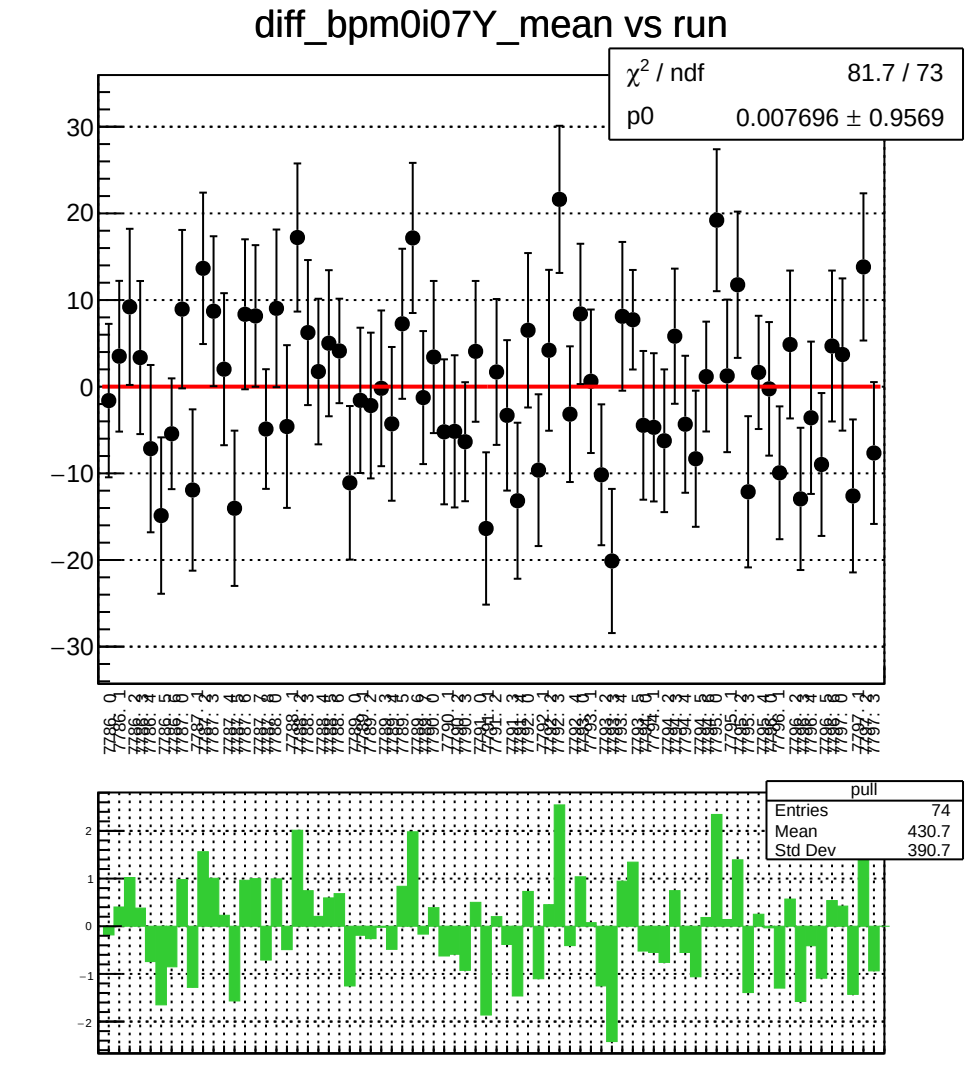

pull1D
Entries 74
Mean 1.066e−05
Std Dev 1.161

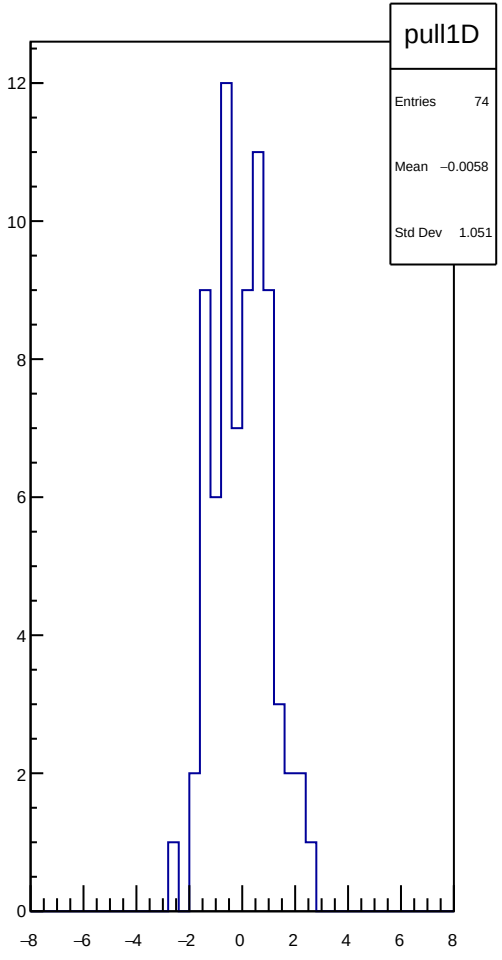

diff_bpm0i05Y_rms vs run
χ² / ndf 990.6 / 73
p0 1339 ± 1.117
1460
1440
1420
1400
1380
1360
1340
1320
1300
1280
1260

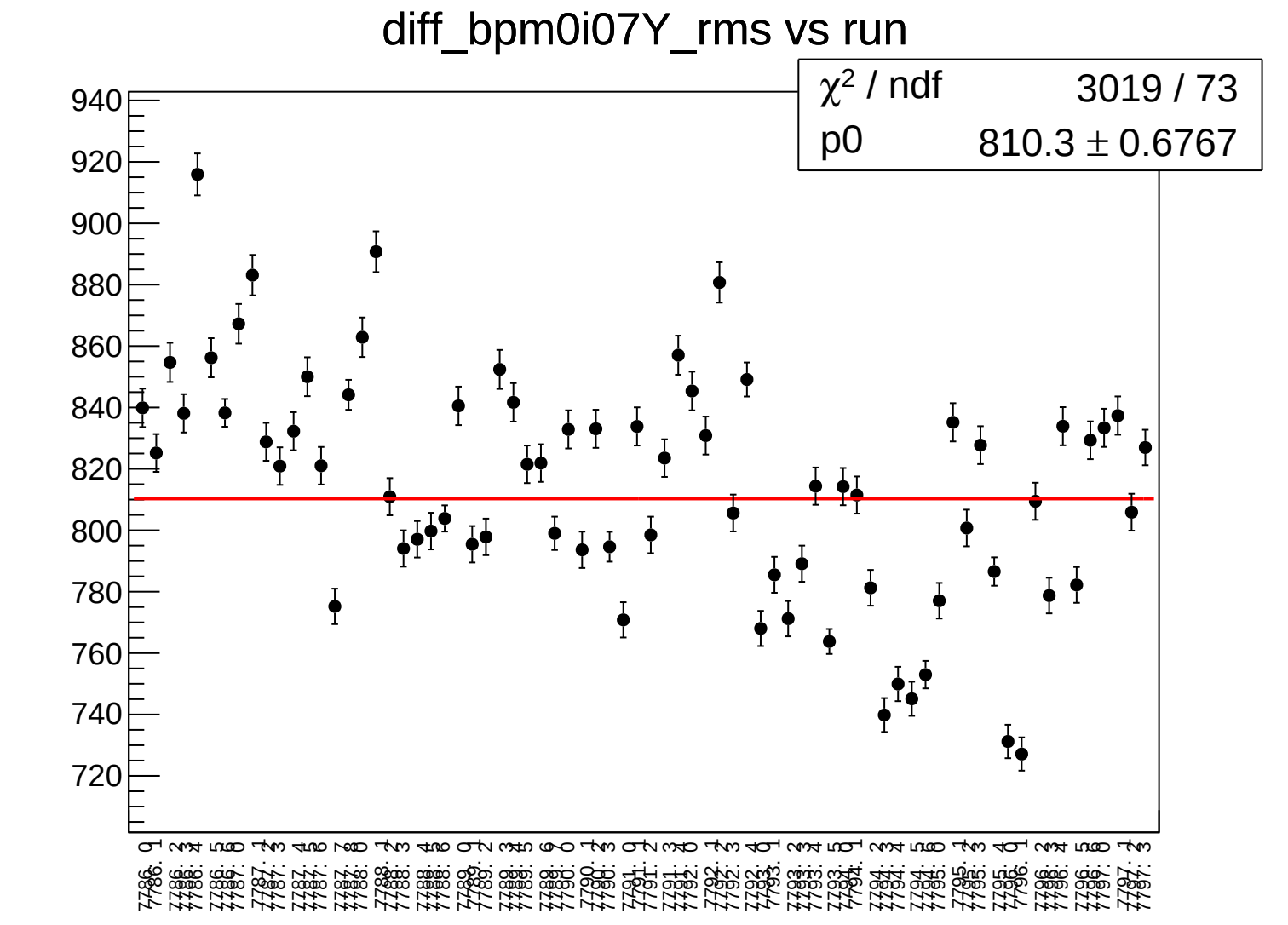

diff_bpm0i07X_mean vs run
χ^2 / ndf 69.4 / 73
p0 −6.903 ± 2.826
pull
Entries 74
Mean 372.9
Std Dev 334.7

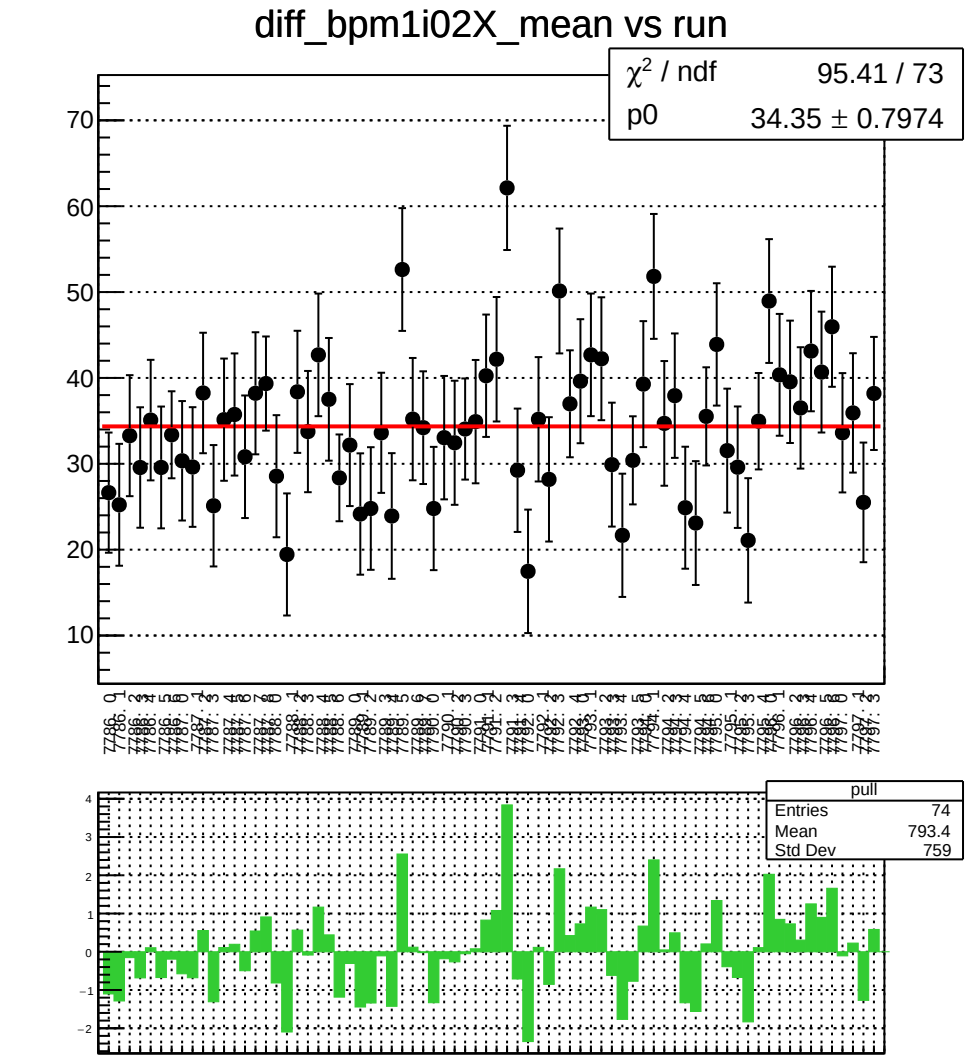

pull1D
Entries 74
Mean −0.009792
Std Dev 0.9684

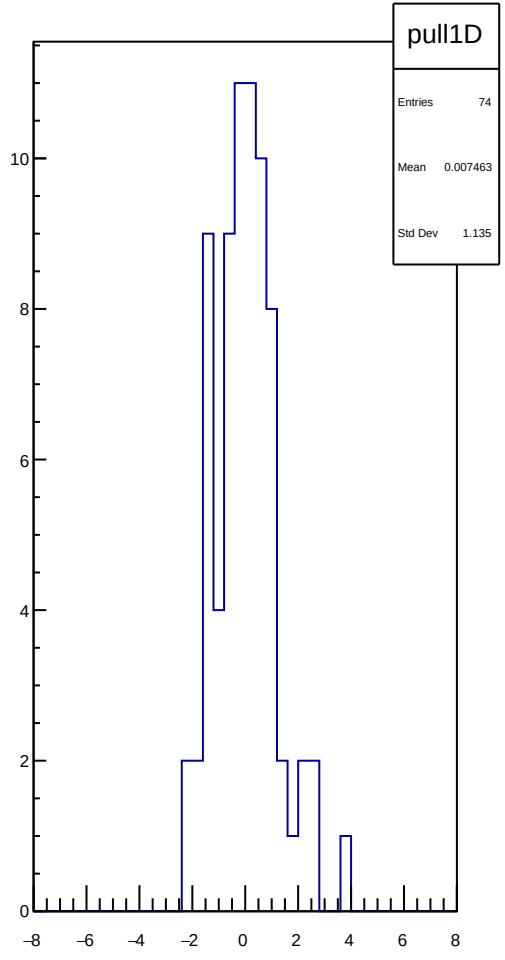

diff_bpm0i07X_rms vs run
χ^2 / ndf 1.162e+04 / 73
p0 2386 ± 1.998
3000
2800
2600
2400
2200
2000

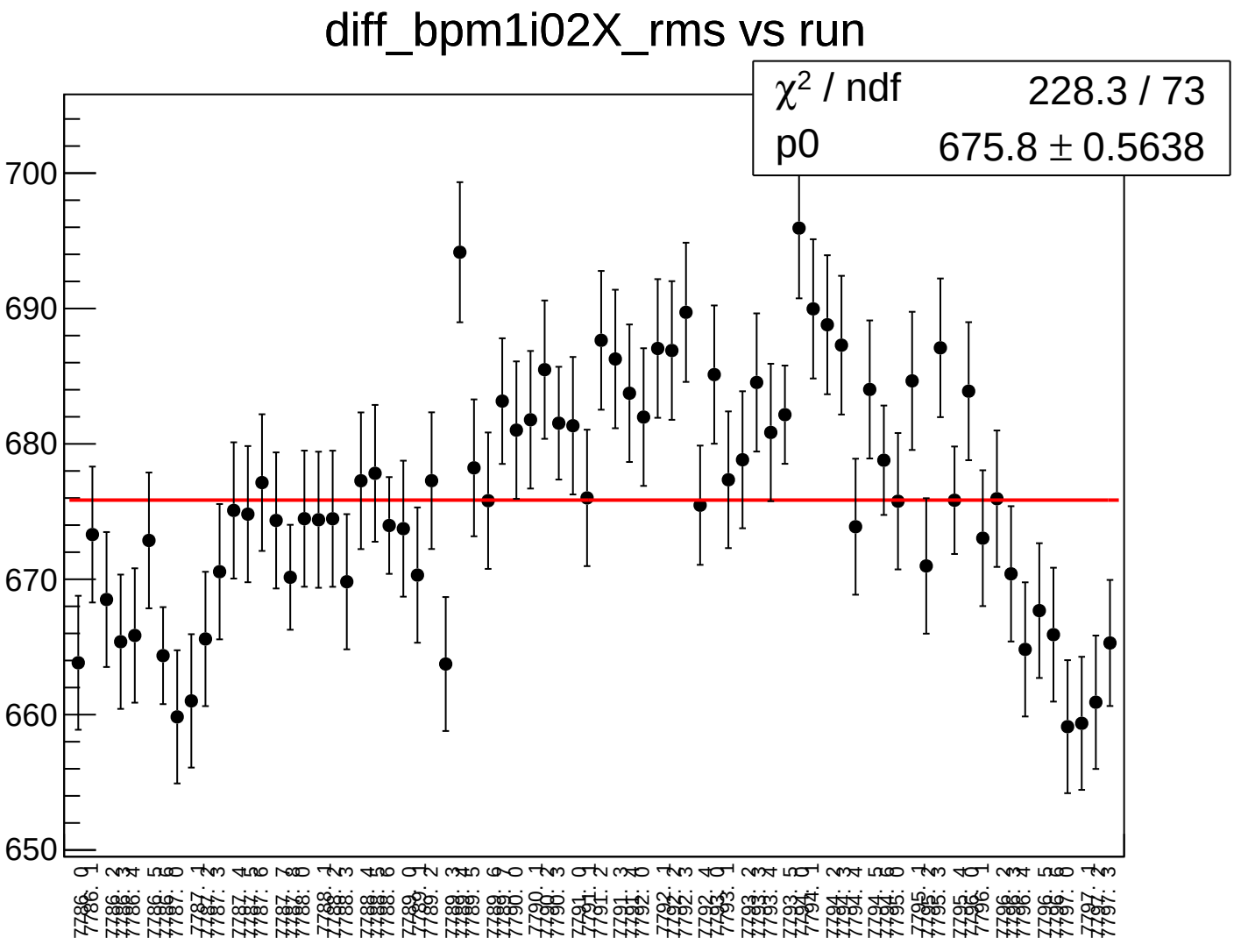

diff_bpm0i07Y_mean vs run
χ² / ndf 81.7 / 73
p0 0.007696 ± 0.9569
pull
Entries 74
Mean 430.7
Std Dev 390.7

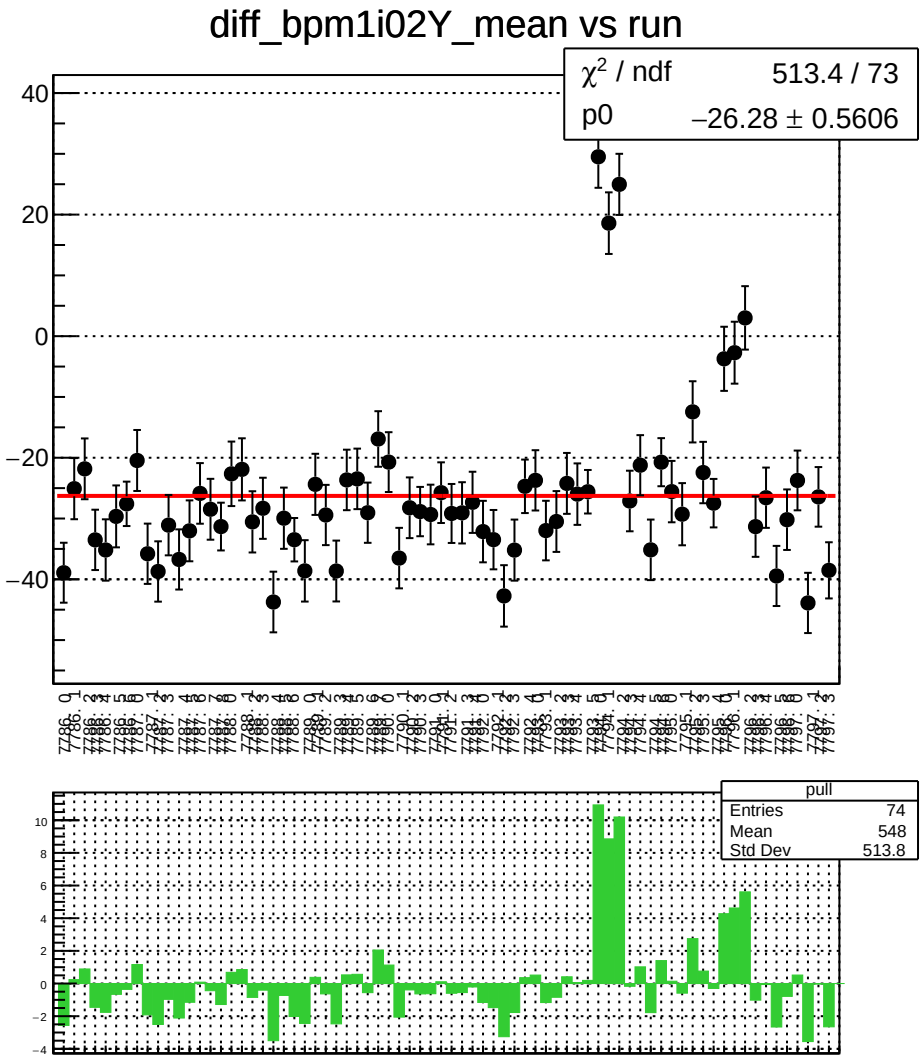

pull1D
Entries 74
Mean −0.0058
Std Dev 1.051

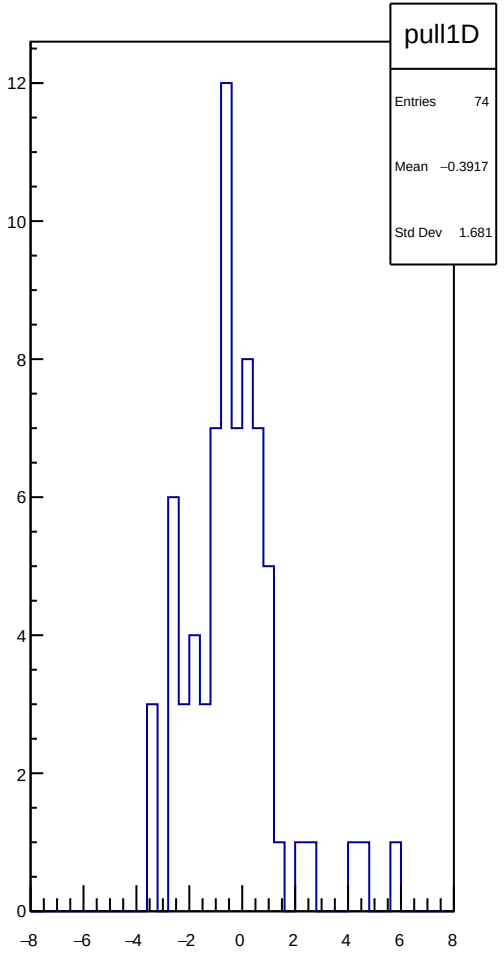

diff_bpm0i07Y_rms vs run
χ² / ndf 3019 / 73
p0 810.3 ± 0.6767
940
920
900
880
860
840
820
800
780
760
740
720

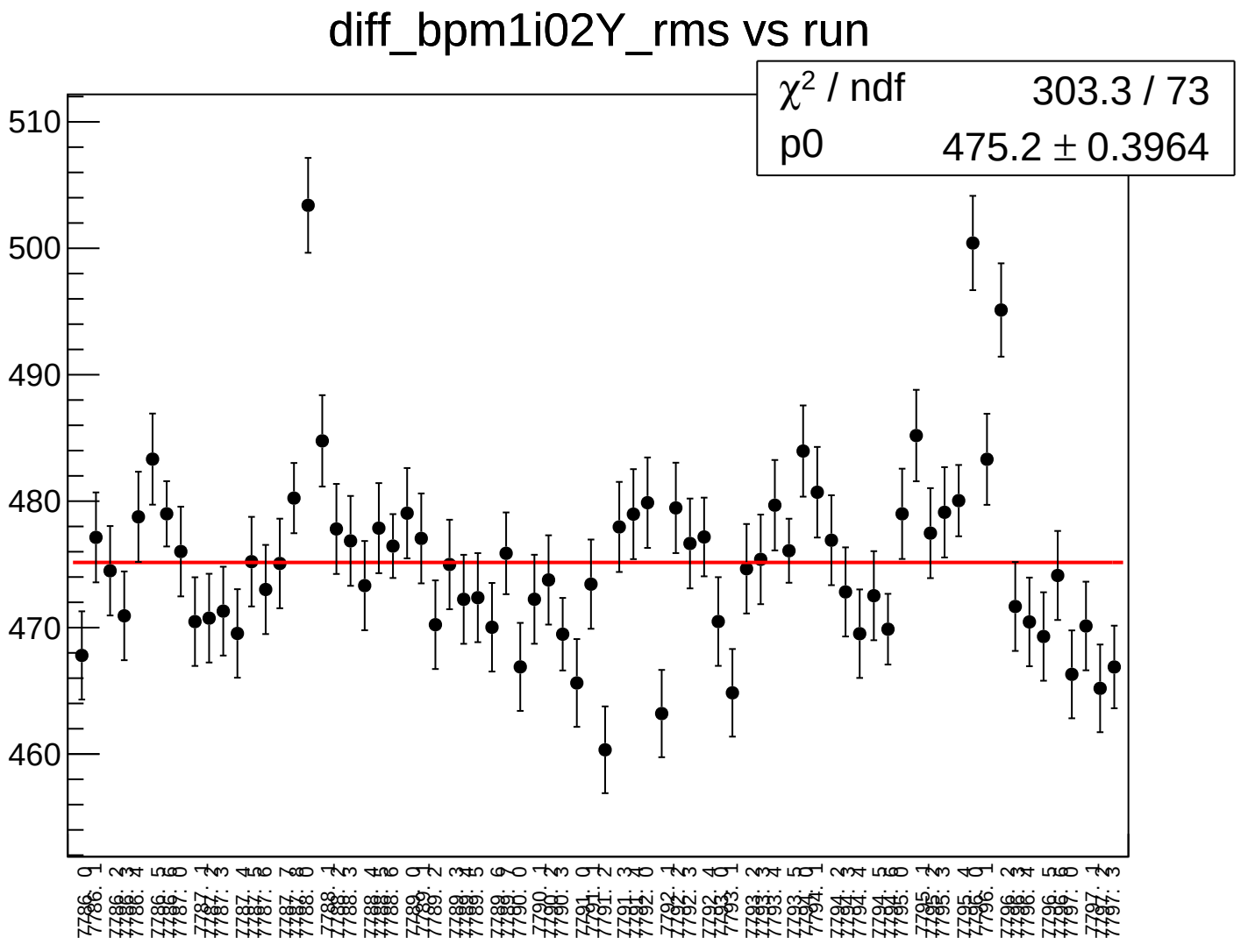

diff_bpm1i02X_mean vs run
χ² / ndf 95.41 / 73
p0 34.35 ± 0.7974
pull
Entries 74
Mean 793.4
Std Dev 759

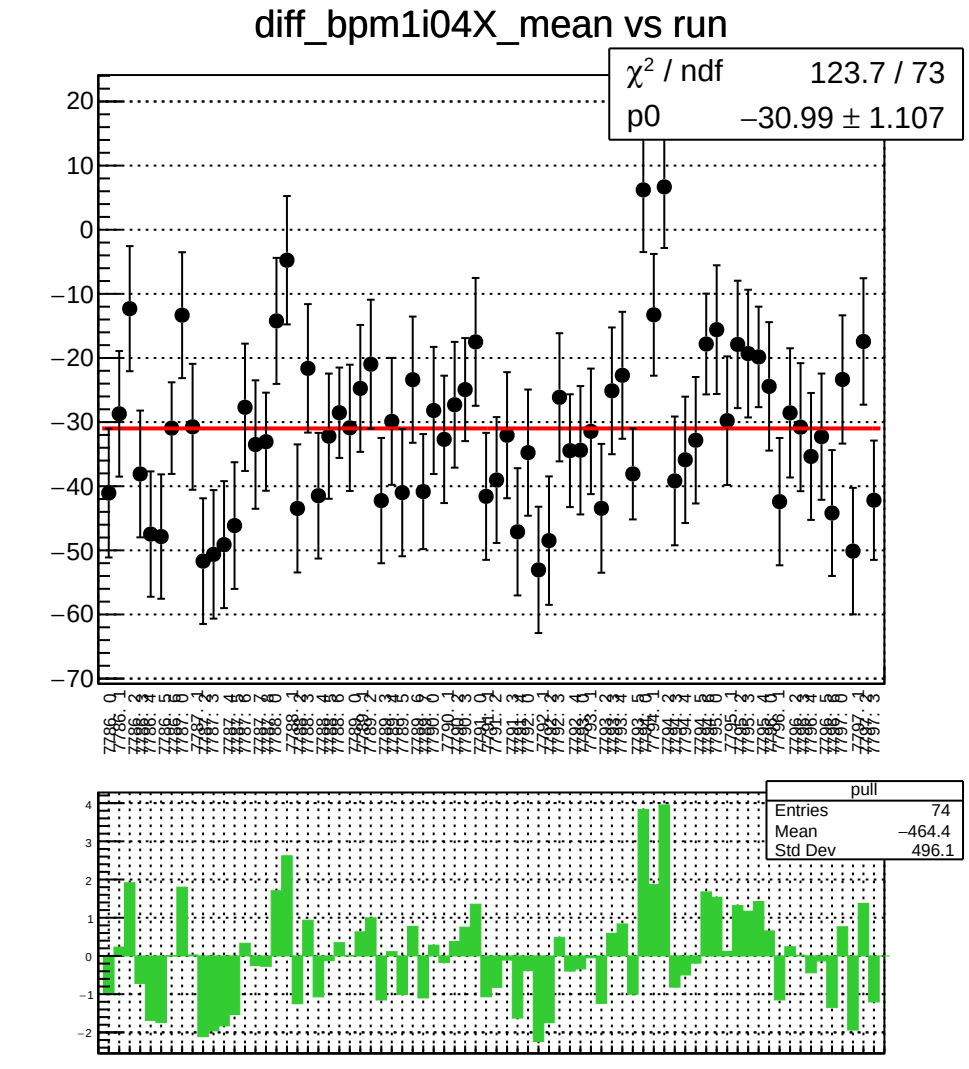

pull1D
Entries 74
Mean 0.007463
Std Dev 1.135

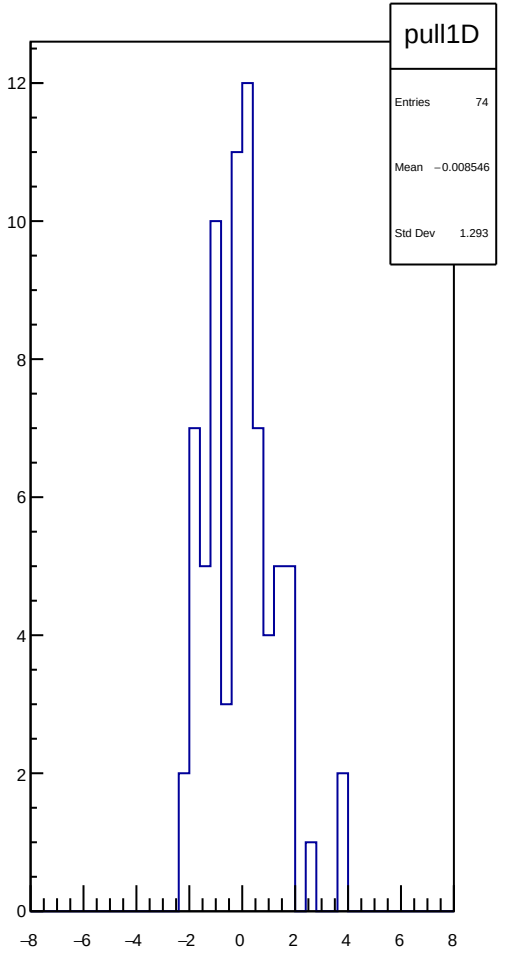

diff_bpm1i02X_rms vs run
χ² / ndf 228.3 / 73
p0 675.8 ± 0.5638
700
690
680
670
660
650

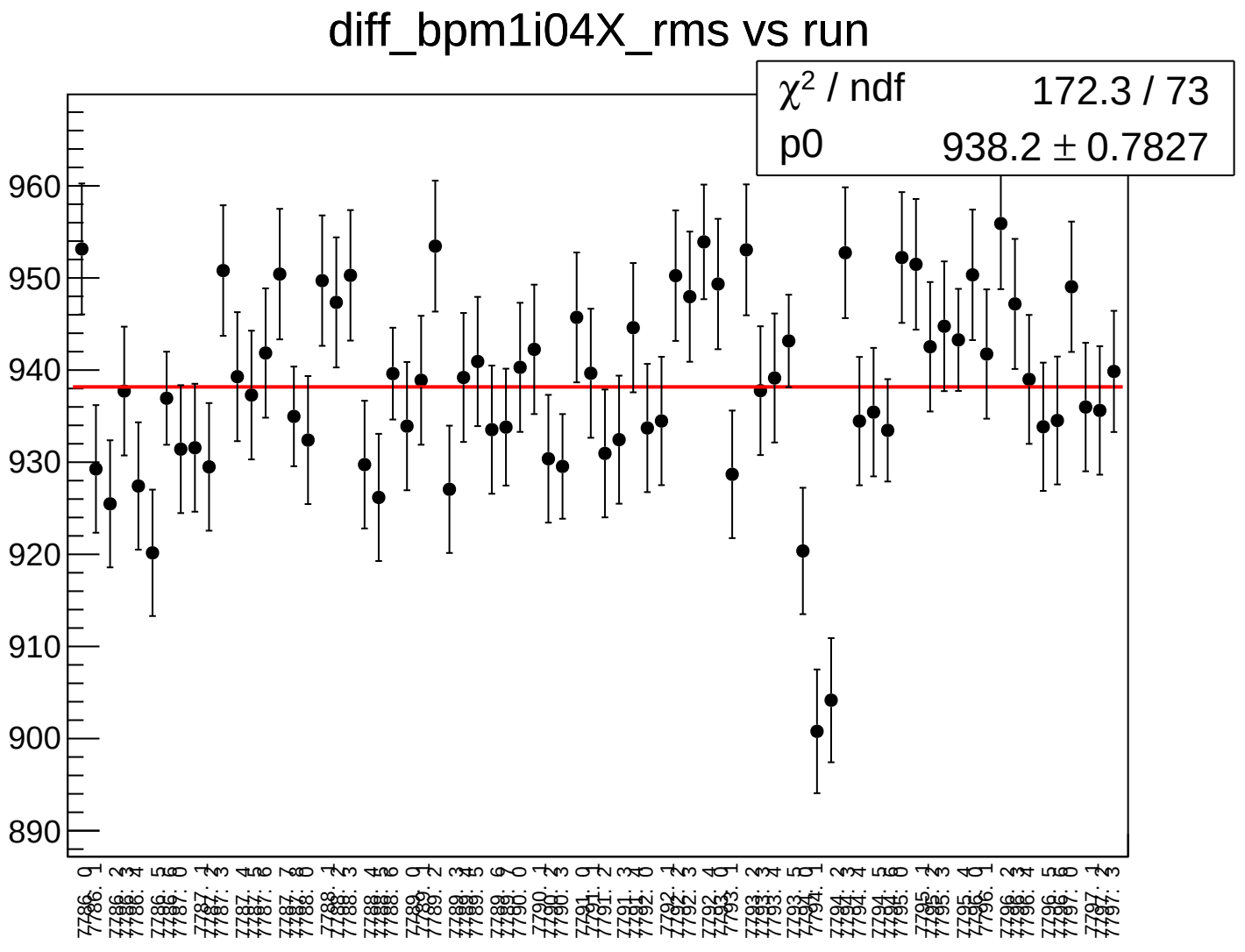

diff_bpm1i02Y_mean vs run
χ² / ndf 513.4 / 73
p0 −26.28 ± 0.5606
pull
Entries 74
Mean 548
Std Dev 513.8

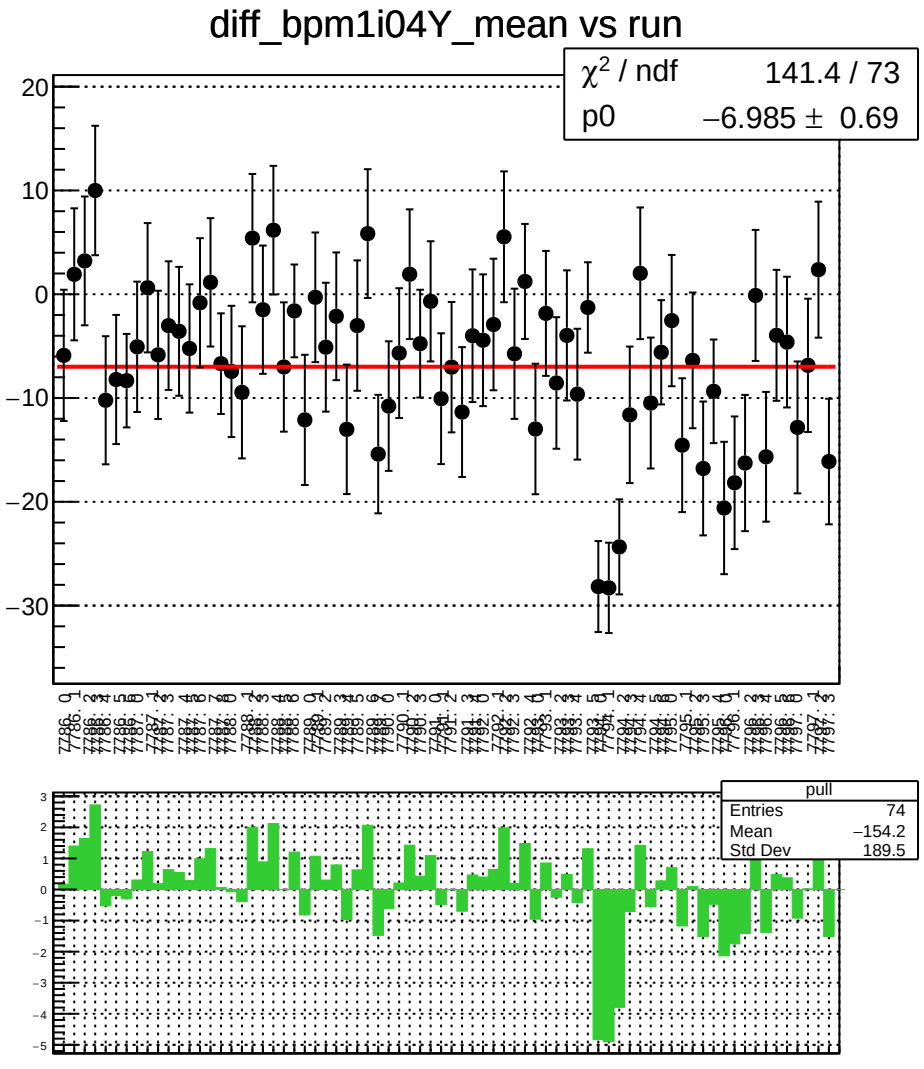

pull1D
Entries 74
Mean −0.3917
Std Dev 1.681

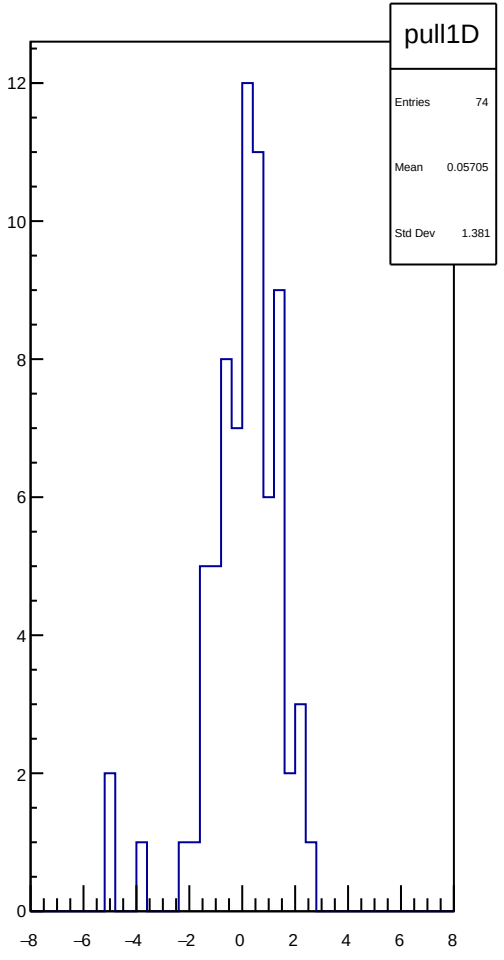

diff_bpm1i02Y_rms vs run
χ² / ndf 303.3 / 73
p0 475.2 ± 0.3964
510
500
490
480
470
460

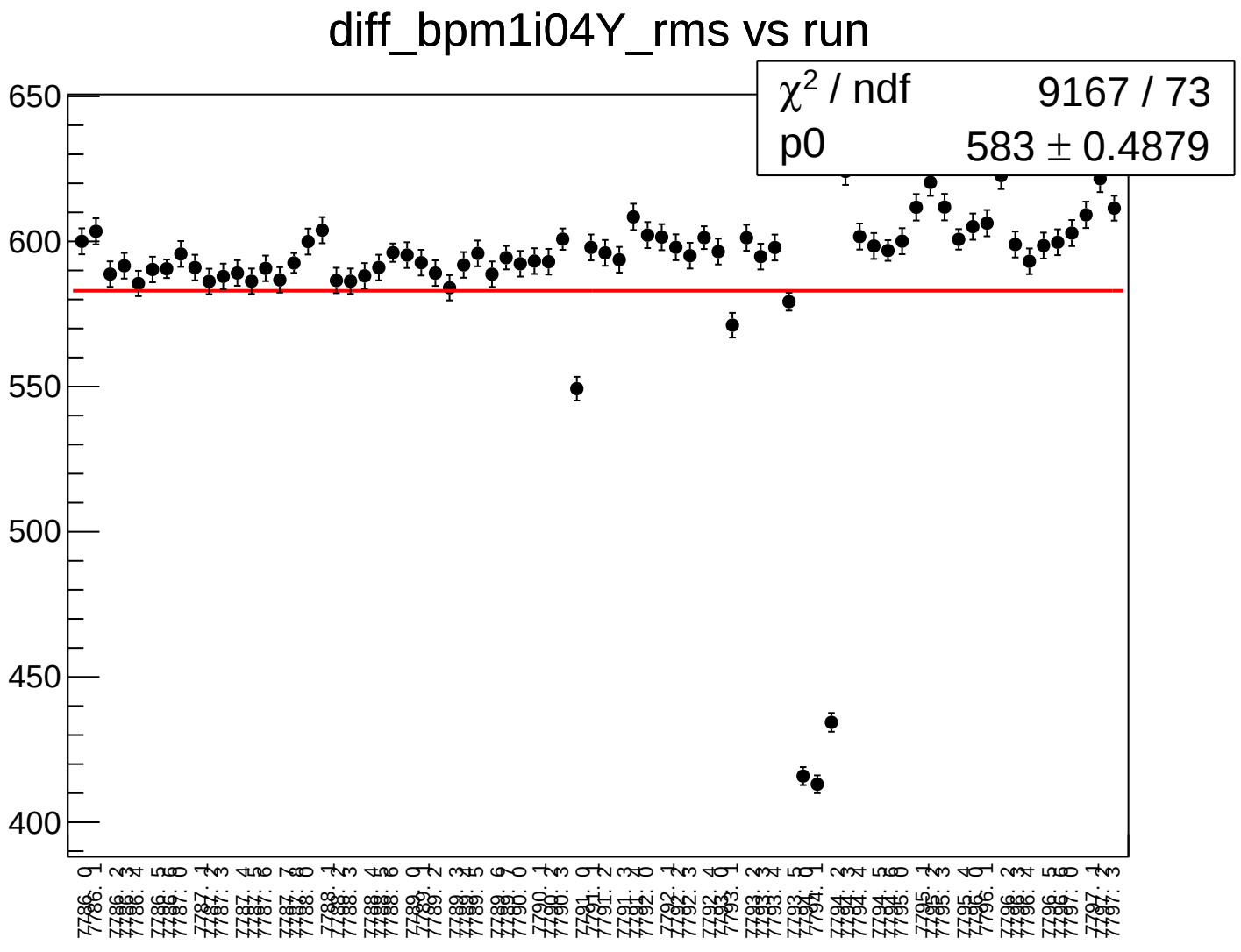

diff_bpm1i04X_mean vs run
χ² / ndf 123.7 / 73
p0 −30.99 ± 1.107
pull
Entries 74
Mean −464.4
Std Dev 496.1

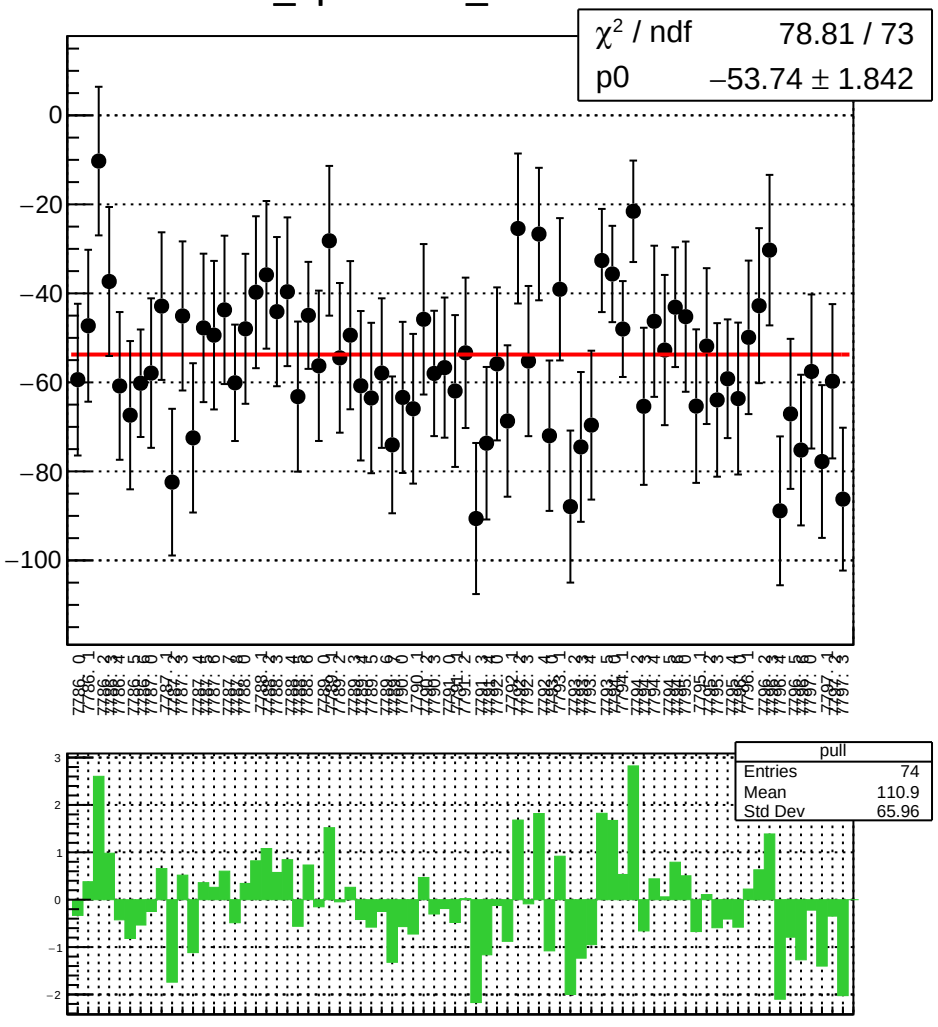

pull1D
Entries 74
Mean −0.008546
Std Dev 1.293

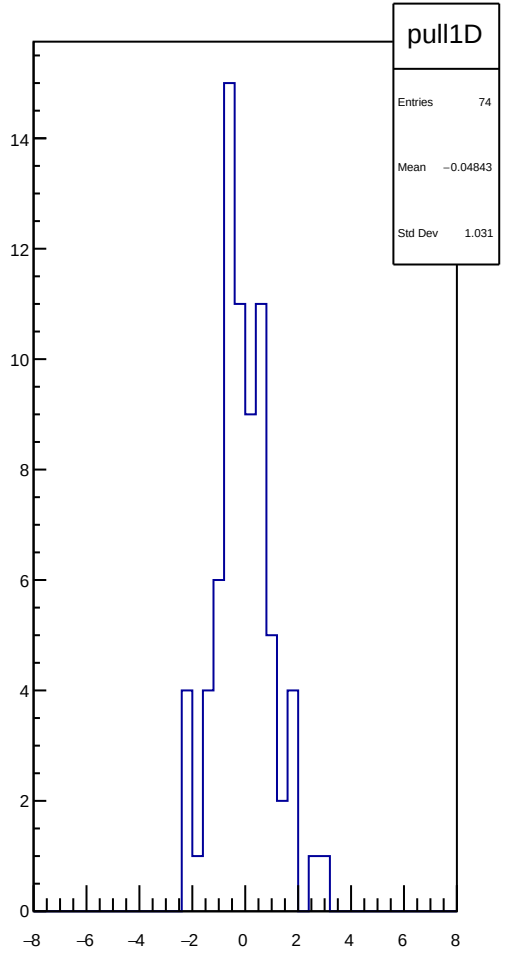

diff_bpm1i04X_rms vs run
χ^2 / ndf 172.3 / 73
p0 938.2 ± 0.7827
960
950
940
930
920
910
900
890

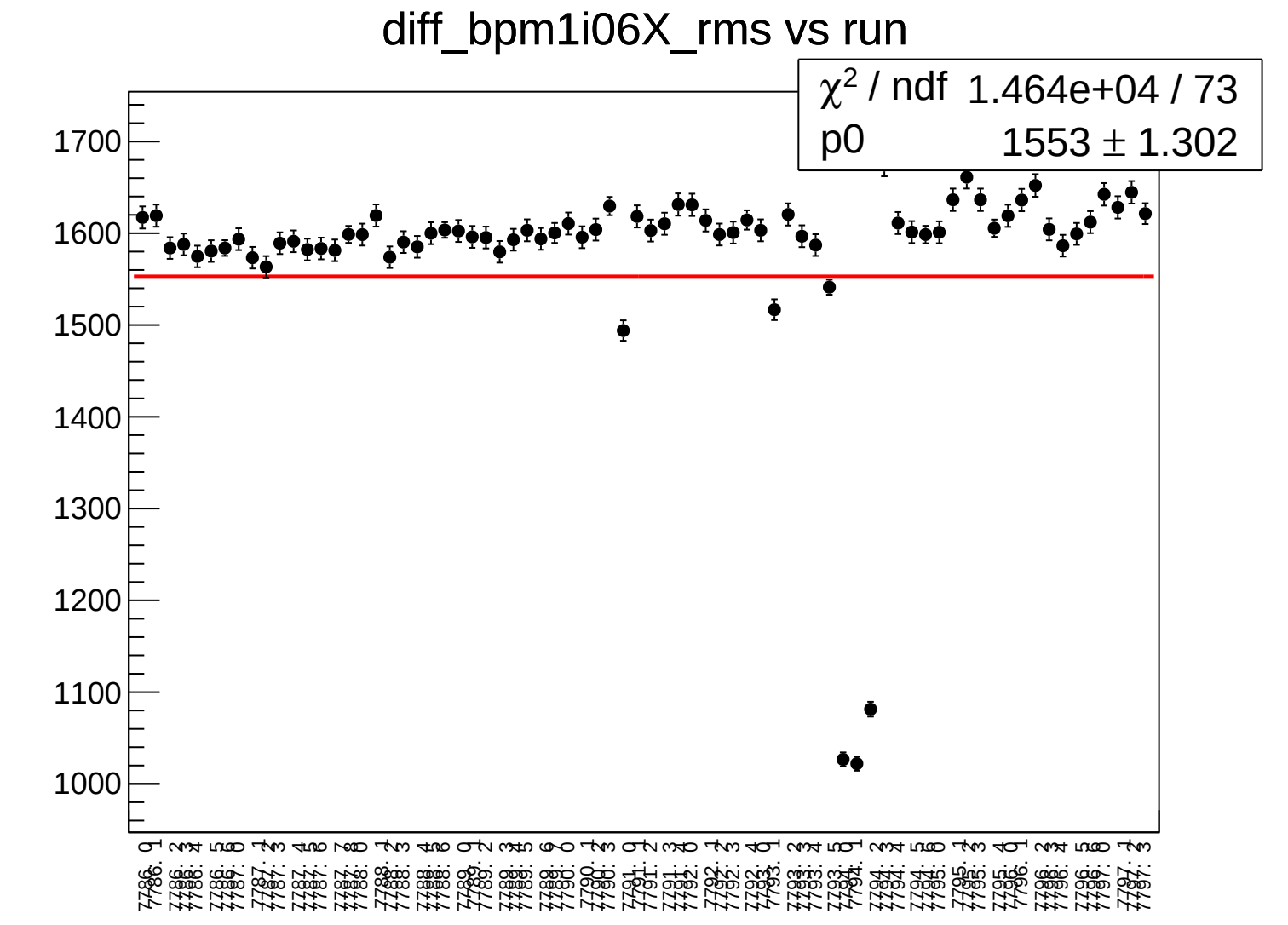

diff_bpm1i04Y_mean vs run
χ² / ndf 141.4 / 73
p0 −6.985 ± 0.69
pull
Entries 74
Mean −154.2
Std Dev 189.5

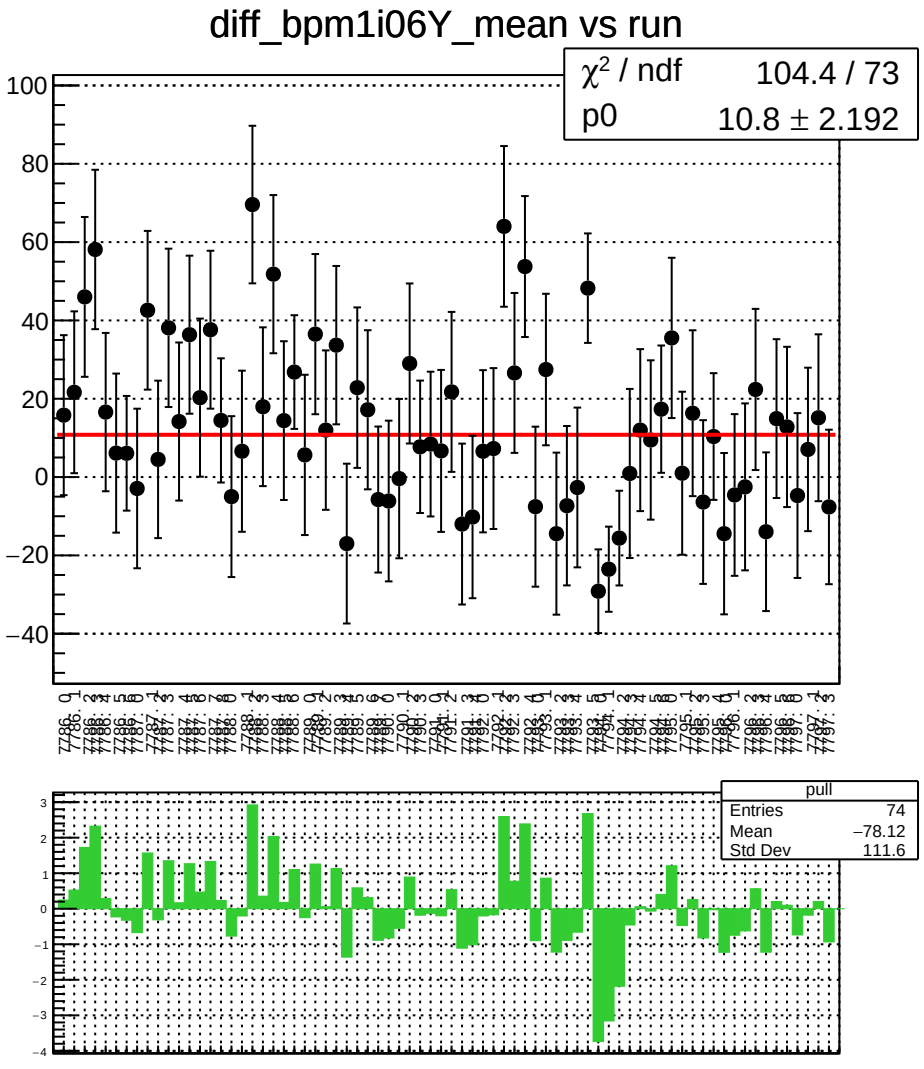

pull1D
Entries 74
Mean 0.05705
Std Dev 1.381

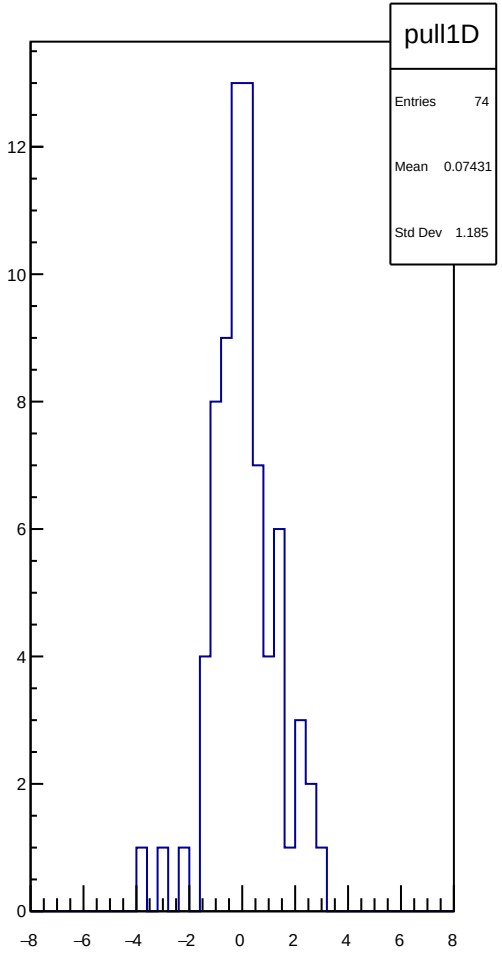

diff_bpm1i04Y_rms vs run
χ² / ndf 9167 / 73
p0 583 ± 0.4879
650
600
550
500
450
400

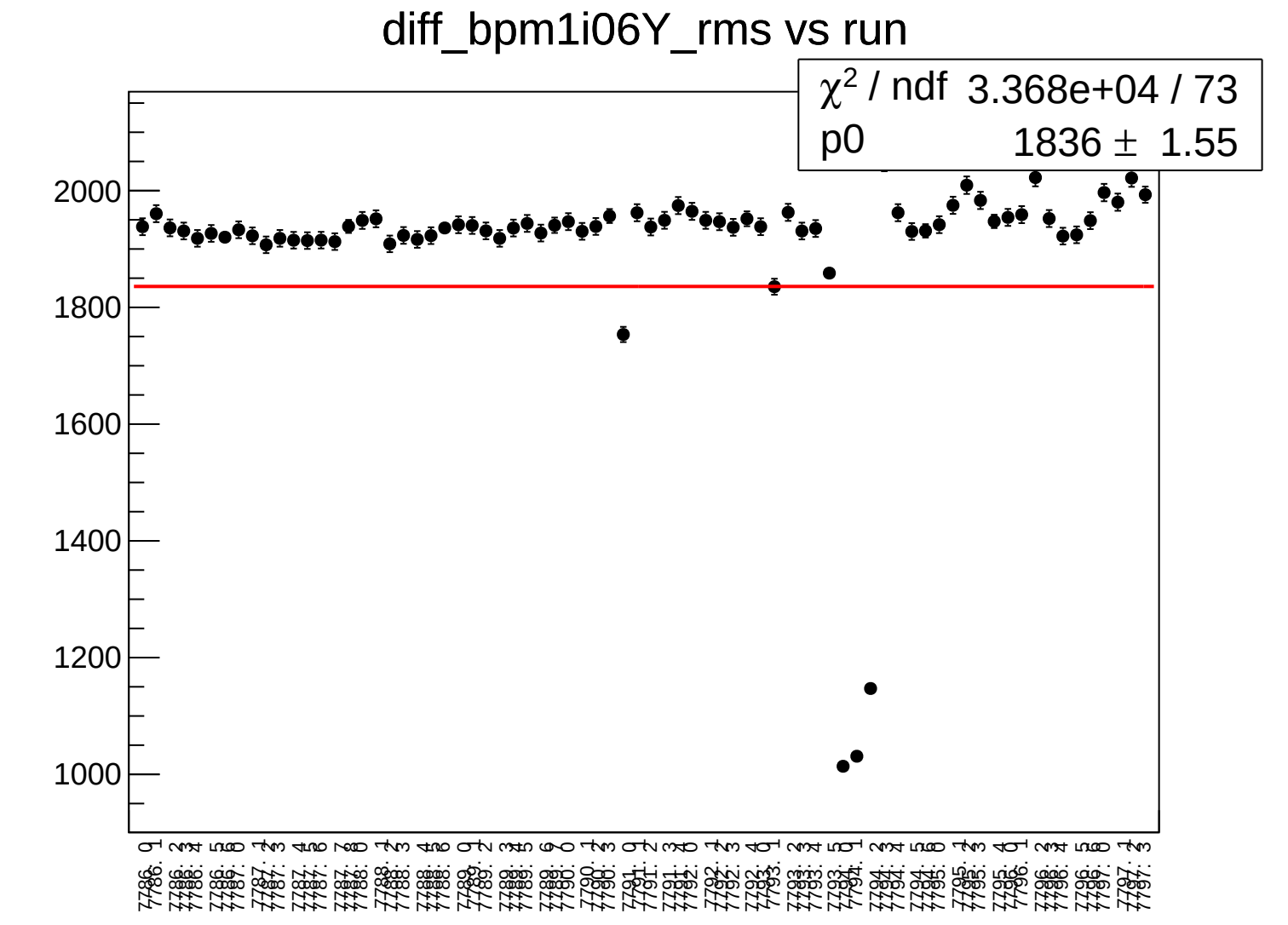

diff_bpm1i06X_mean vs run
χ² / ndf 78.81 / 73
p0 −53.74 ± 1.842
pull
Entries 74
Mean 110.9
Std Dev 65.96

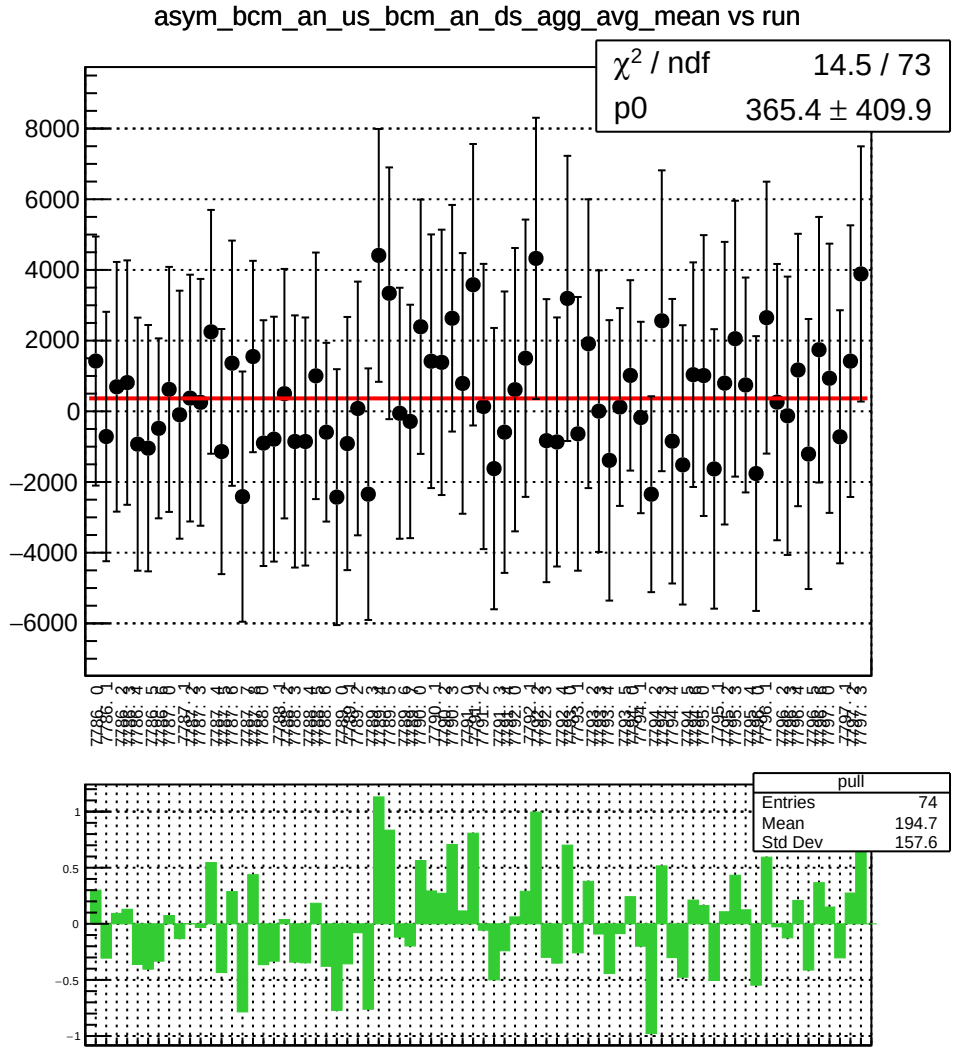

pull1D
Entries 74
Mean −0.04843
Std Dev 1.031

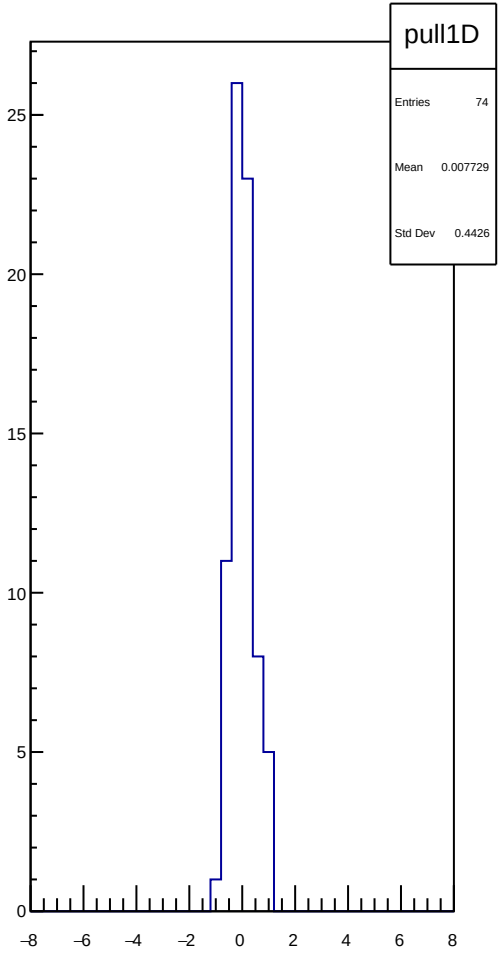

diff_bpm1i06X_rms vs run
χ^2 / ndf 1.464e+04 / 73
p0 1553 ± 1.302
1700
1600
1500
1400
1300
1200
1100
1000

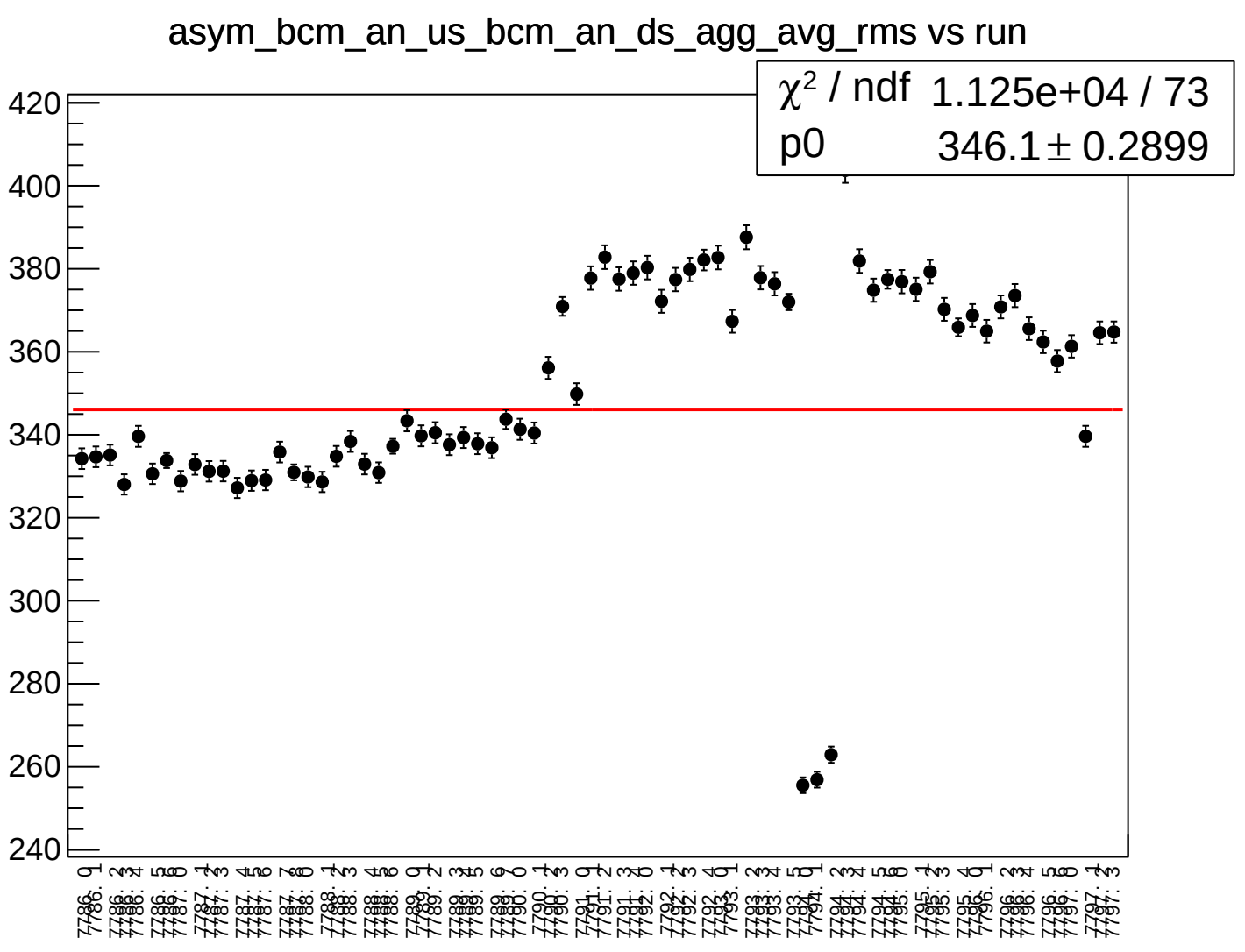

diff_bpm1i06Y_mean vs run
χ² / ndf 104.4 / 73
p0 10.8 ± 2.192
pull
Entries 74
Mean −78.12
Std Dev 111.6

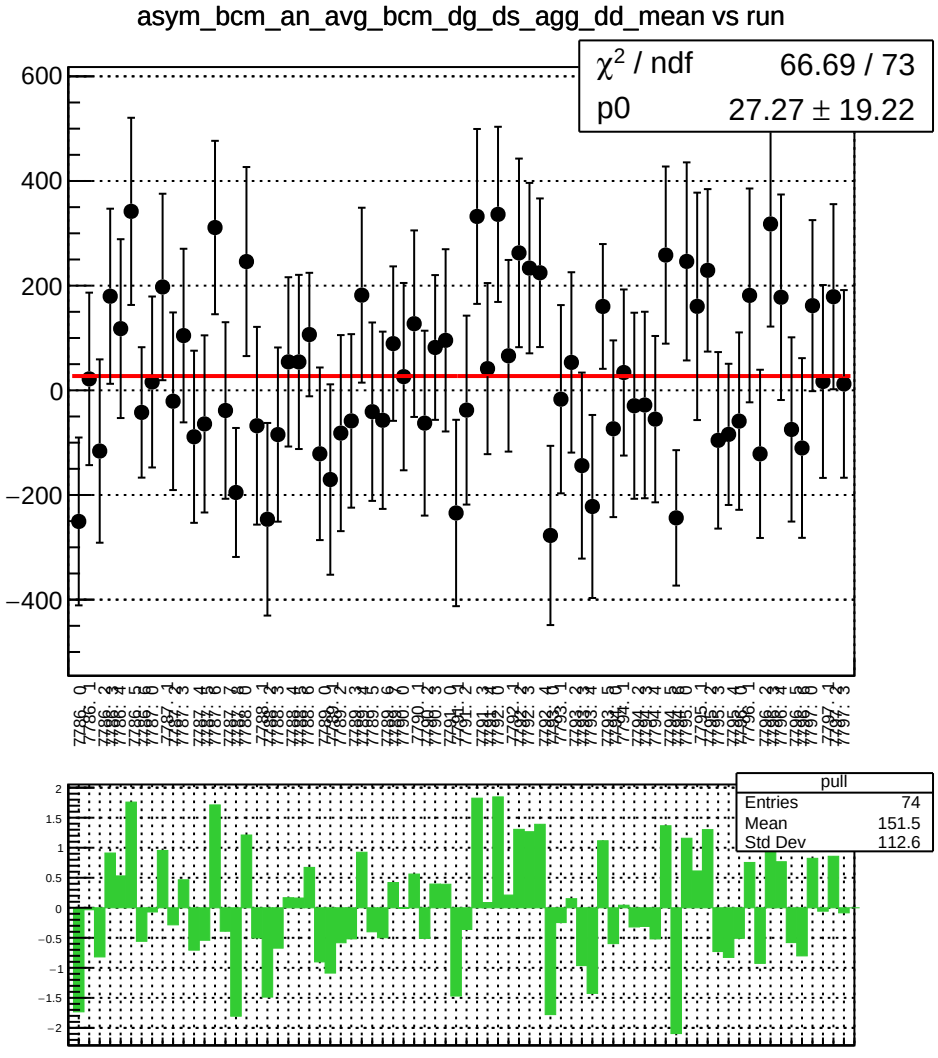

pull1D
Entries 74
Mean 0.07431
Std Dev 1.185

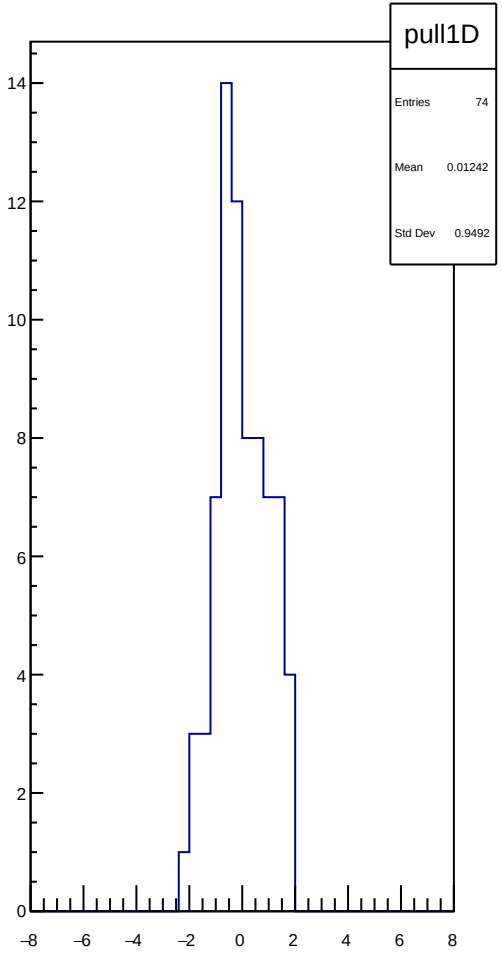

diff_bpm1i06Y_rms vs run
χ² / ndf 3.368e+04 / 73
p0 1836 ± 1.55
2000
1800
1600
1400
1200
1000

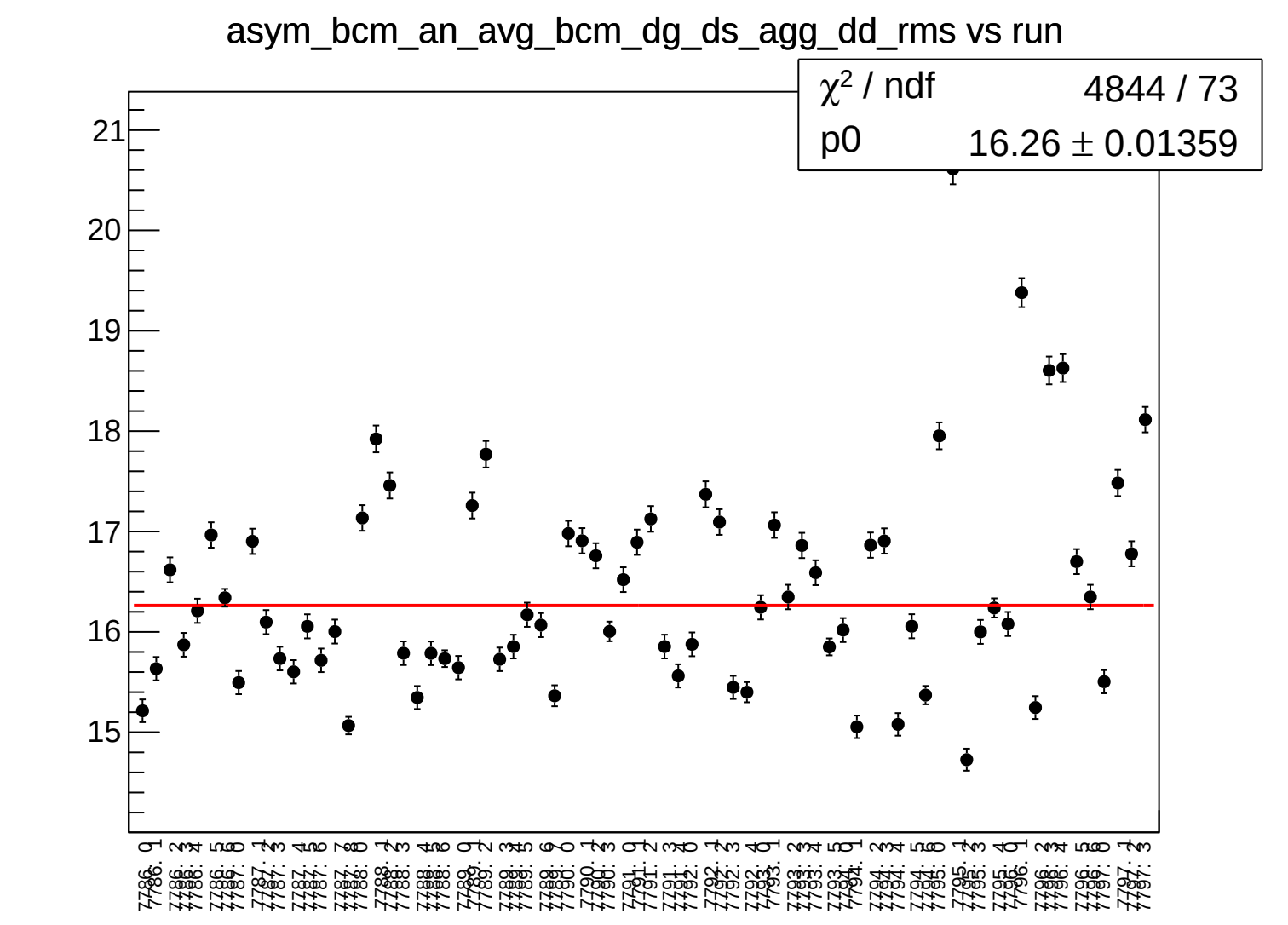

asym_bcm_an_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.5 / 73
p0 365.4 ± 409.9
pull
Entries 74
Mean 194.7
Std Dev 157.6

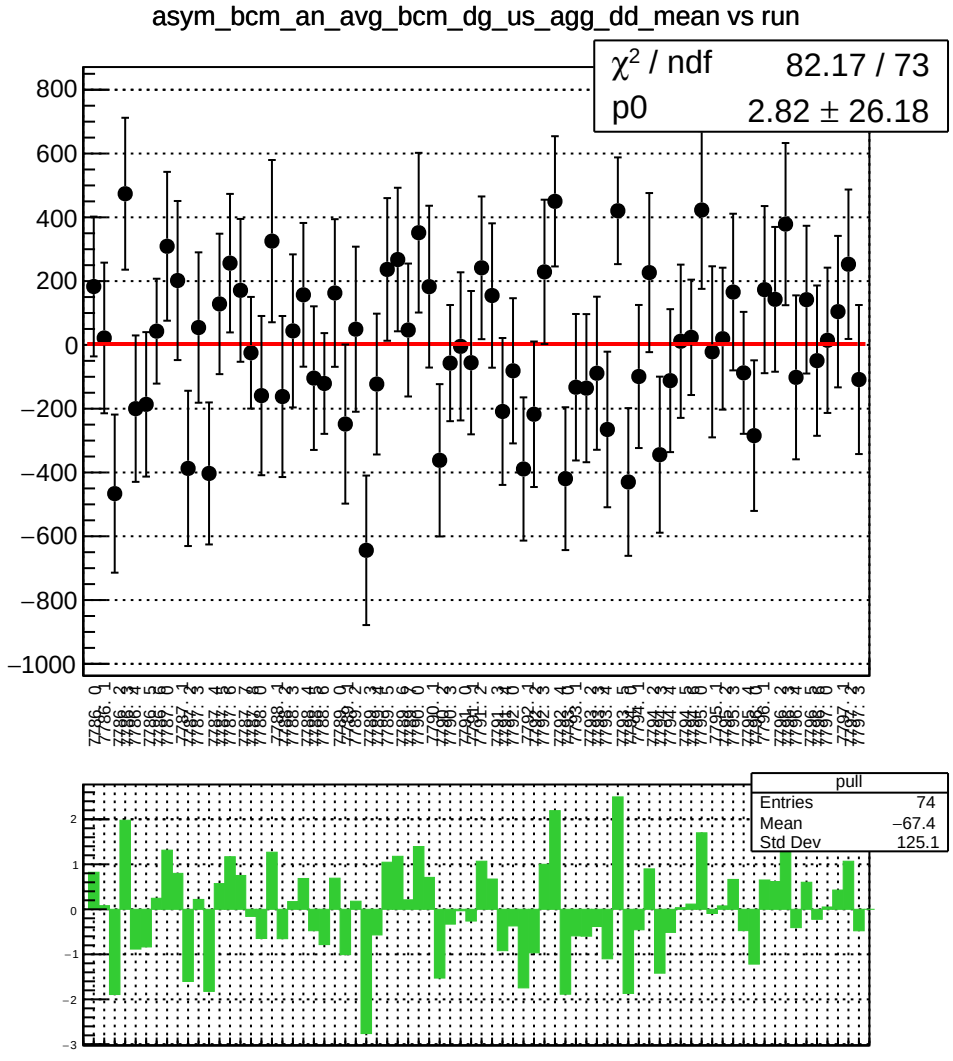

pull1D
Entries 74
Mean 0.007729
Std Dev 0.4426

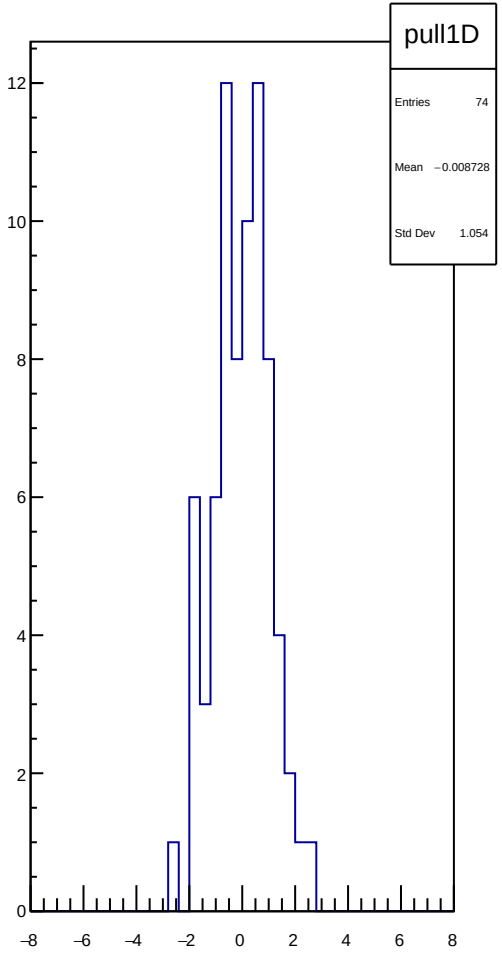

asym_bcm_an_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.125e+04 / 73
p0 346.1 ± 0.2899
420
400
380
360
340
320
300
280
260
240

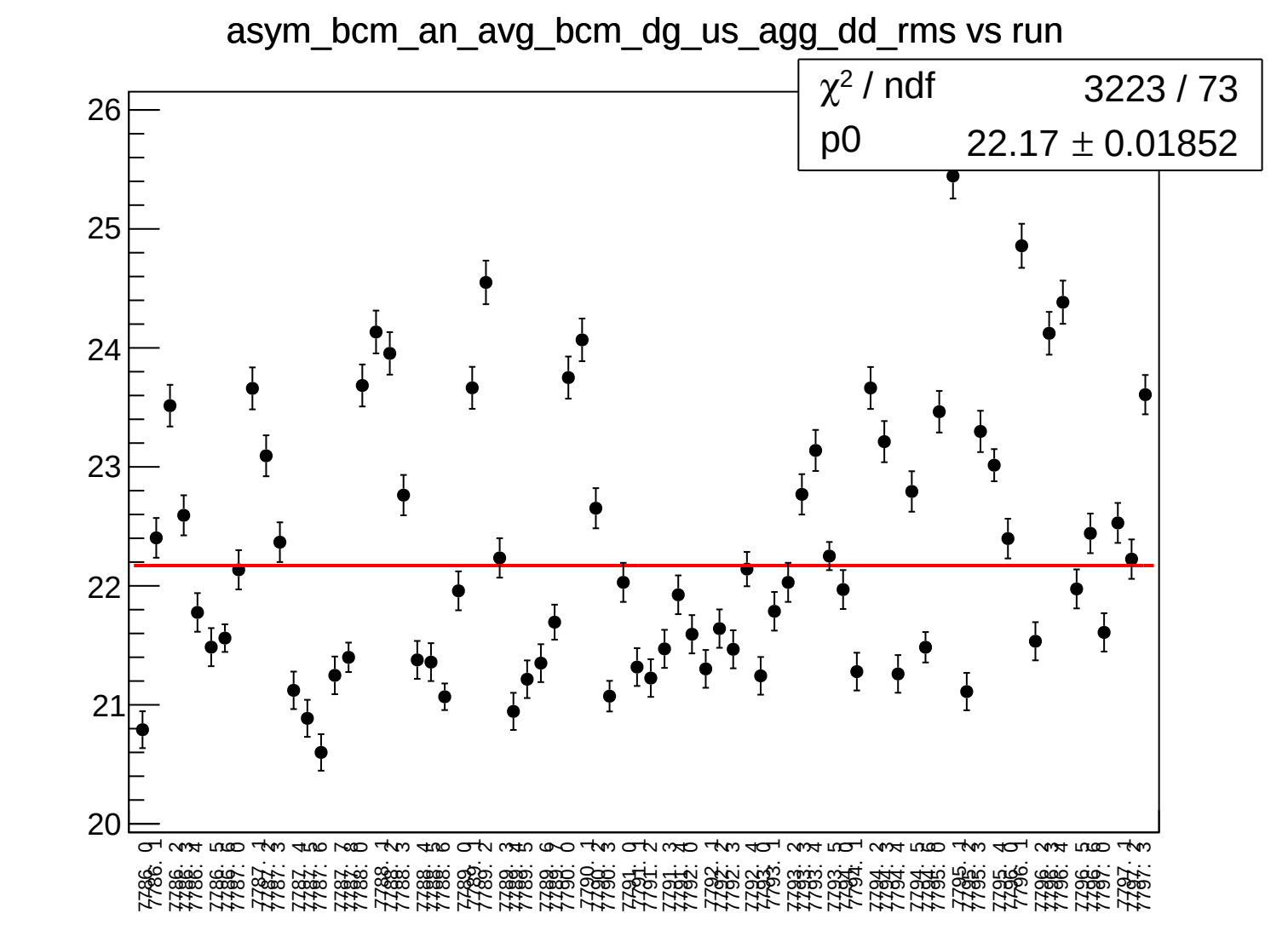

asym_bcm_an_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 66.69 / 73
p0 27.27 ± 19.22
pull
Entries 74
Mean 151.5
Std Dev 112.6

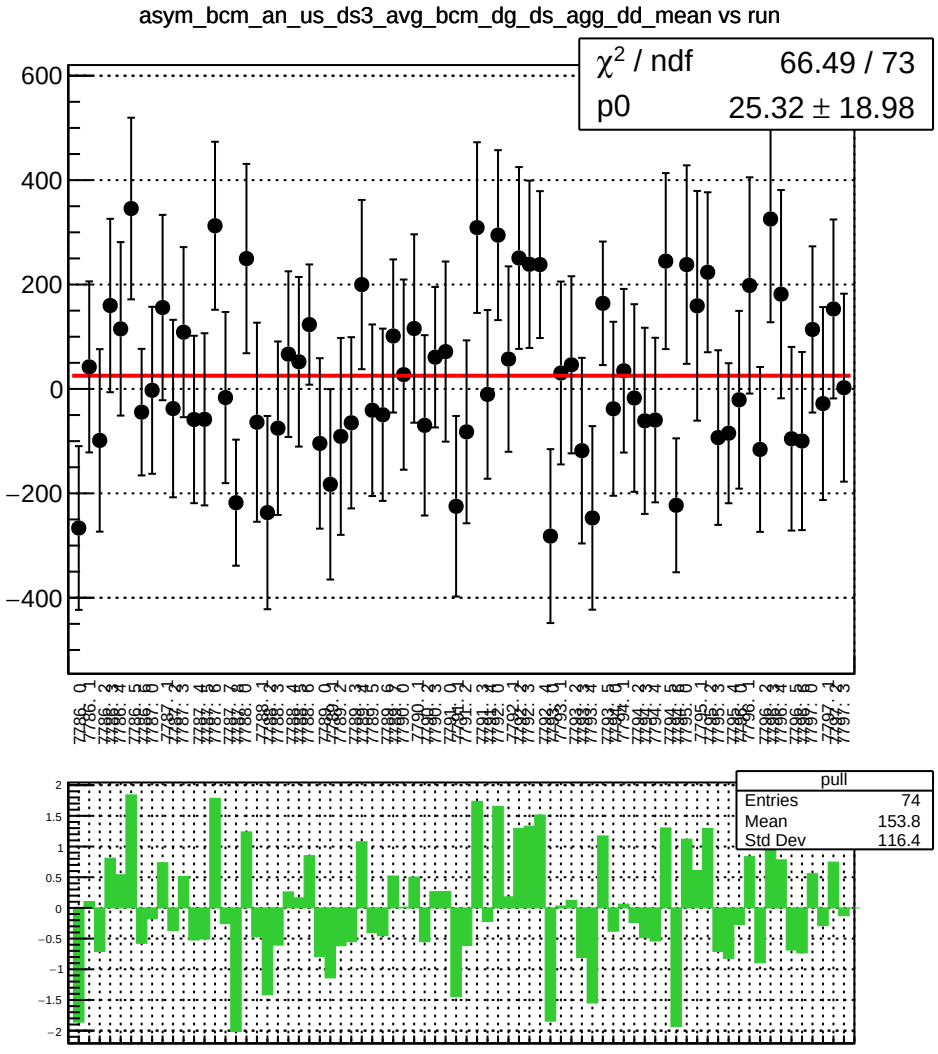

pull1D
Entries 74
Mean 0.01242
Std Dev 0.9492

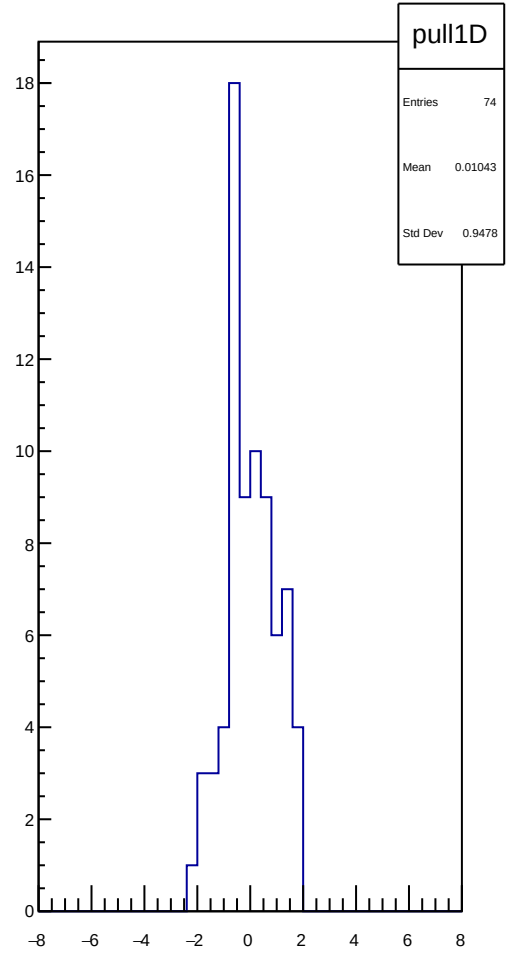

asym_bcm_an_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 4844 / 73
p0 16.26 ± 0.01359
21
20
19
18
17
16
15

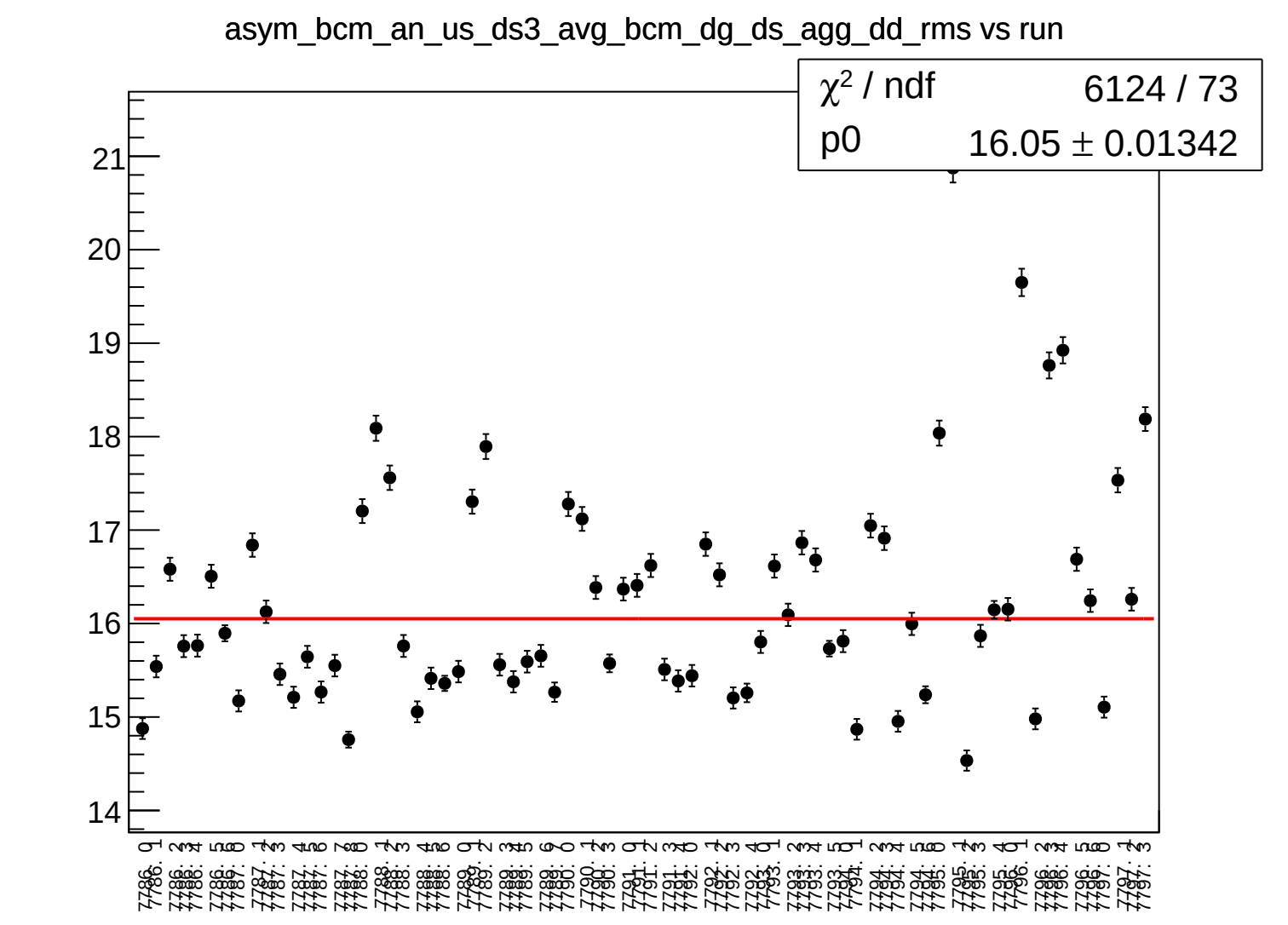

asym_bcm_an_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.17 / 73
p0 2.82 ± 26.18
pull
Entries 74
Mean −67.4
Std Dev 125.1

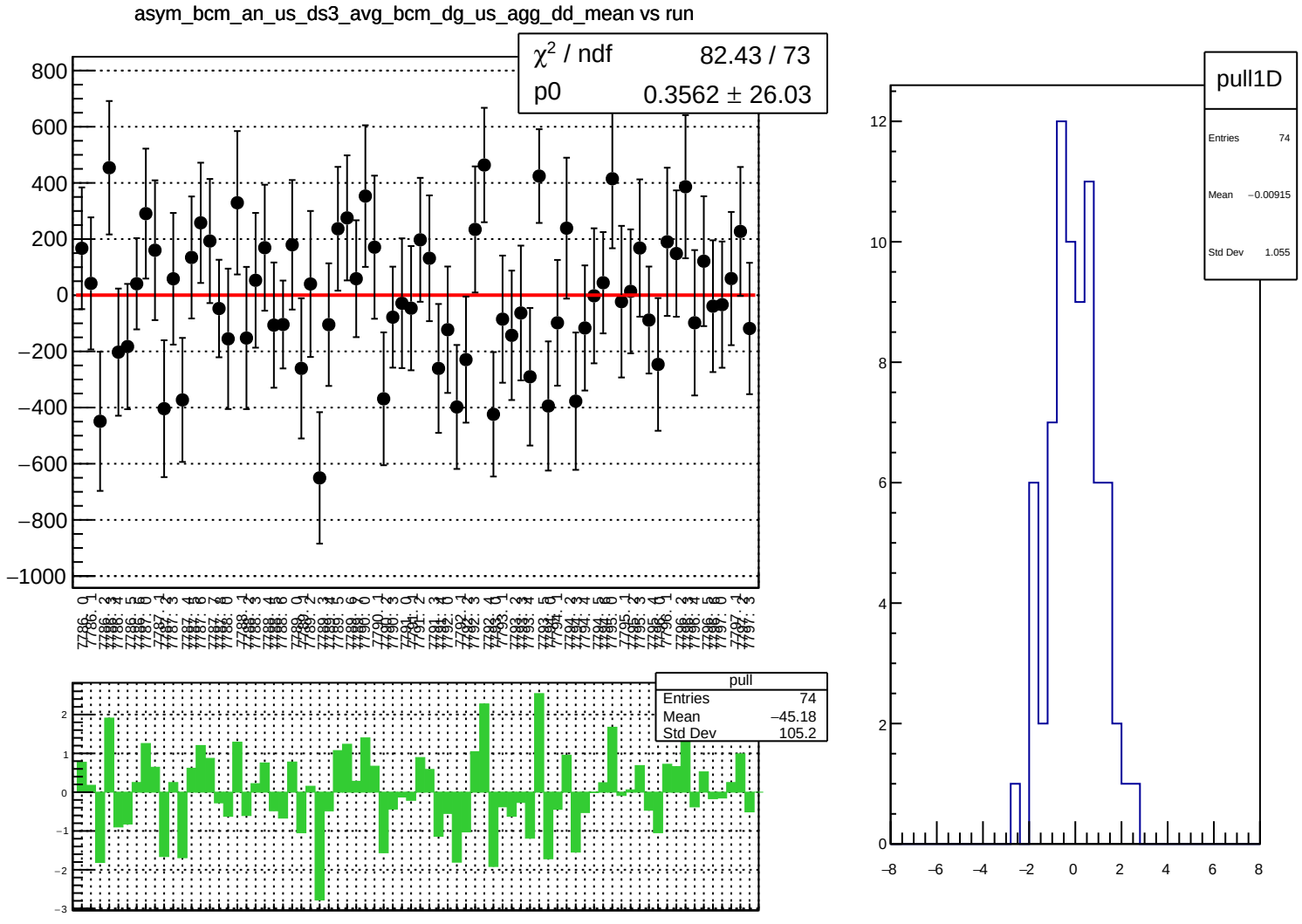

pull1D
Entries 74
Mean −0.008728
Std Dev 1.054

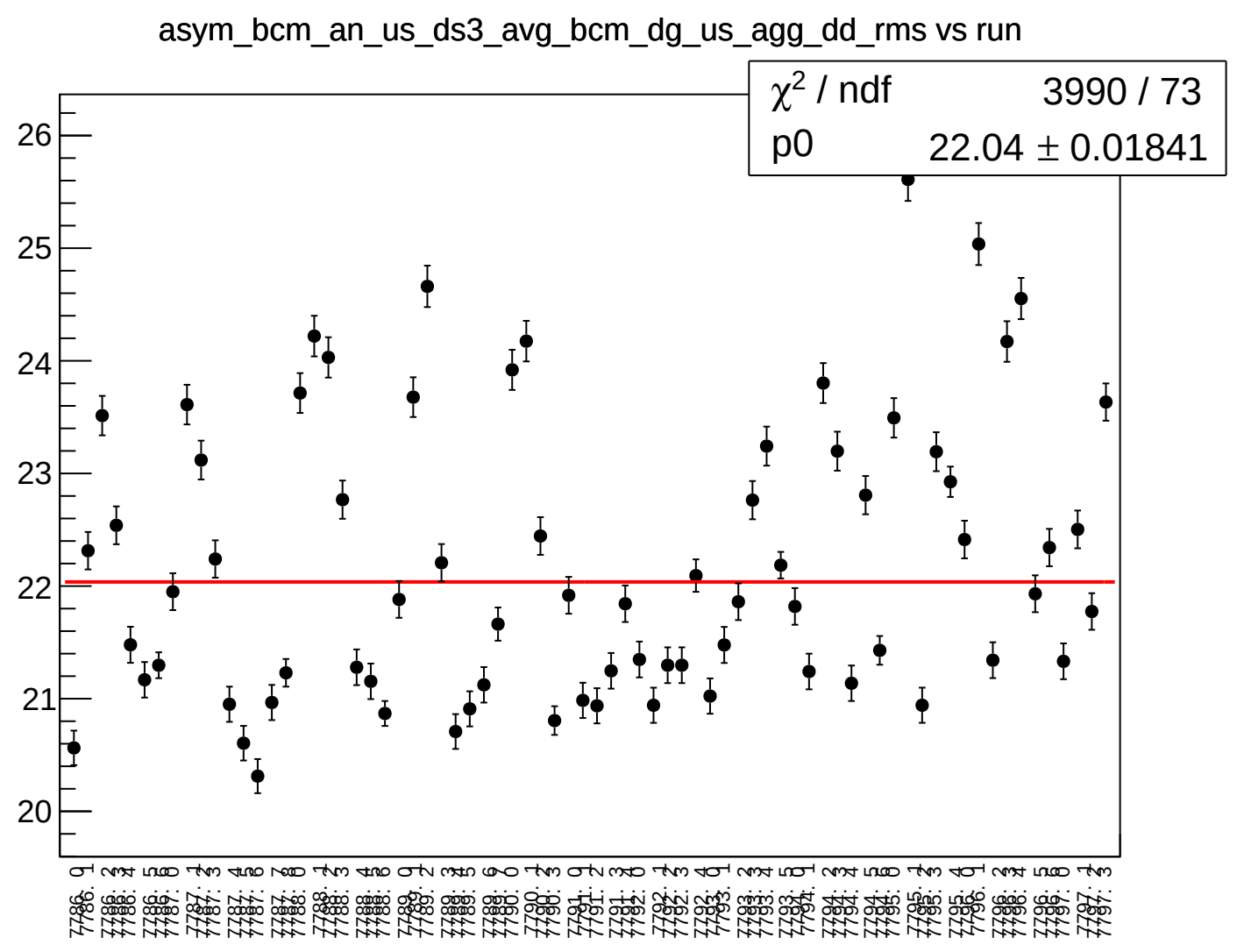

asym_bcm_an_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3223 / 73
p0 22.17 ± 0.01852
26
25
24
23
22
21
20

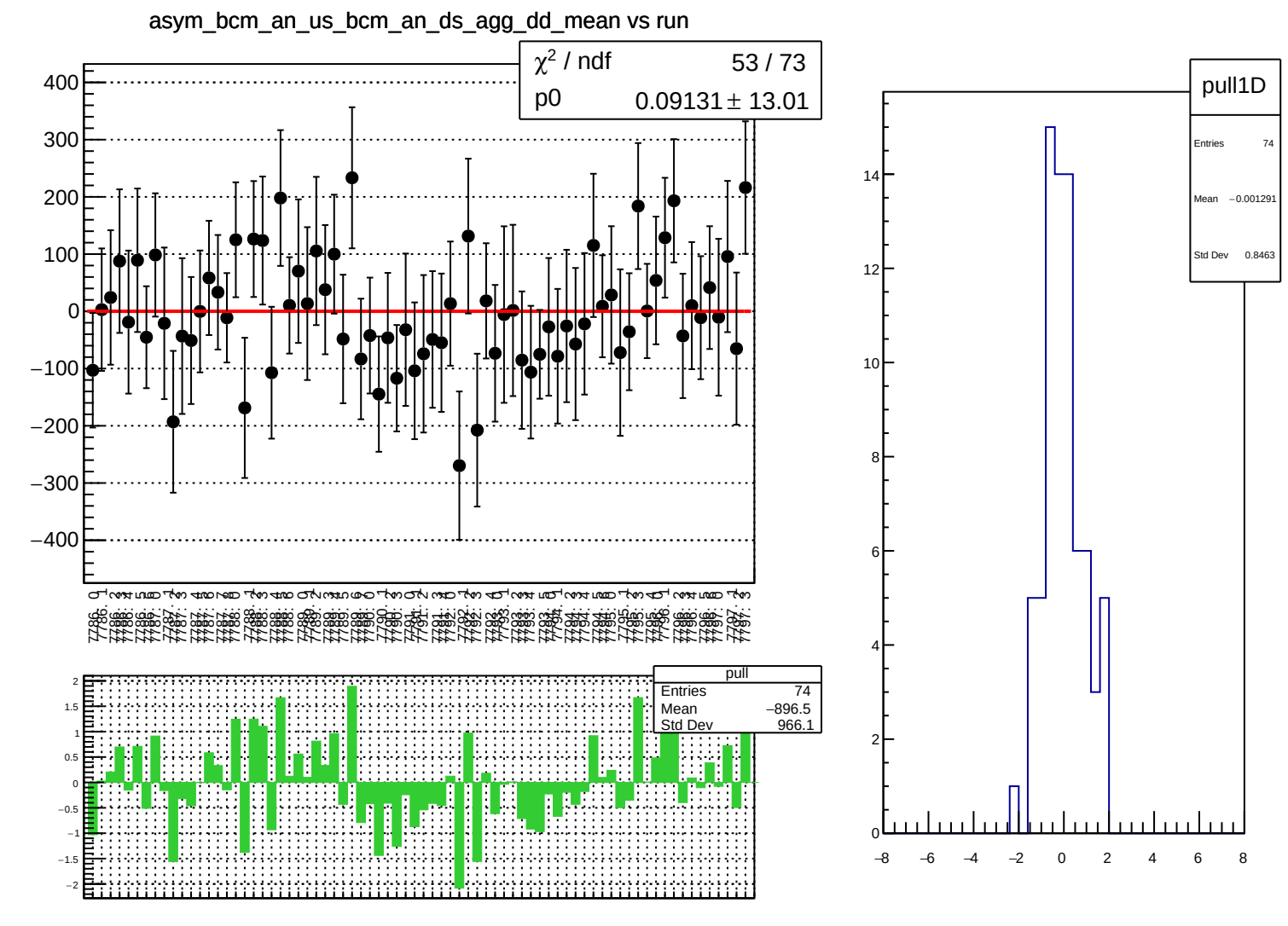

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 66.49 / 73
p0 25.32 ± 18.98
pull
Entries 74
Mean 153.8
Std Dev 116.4

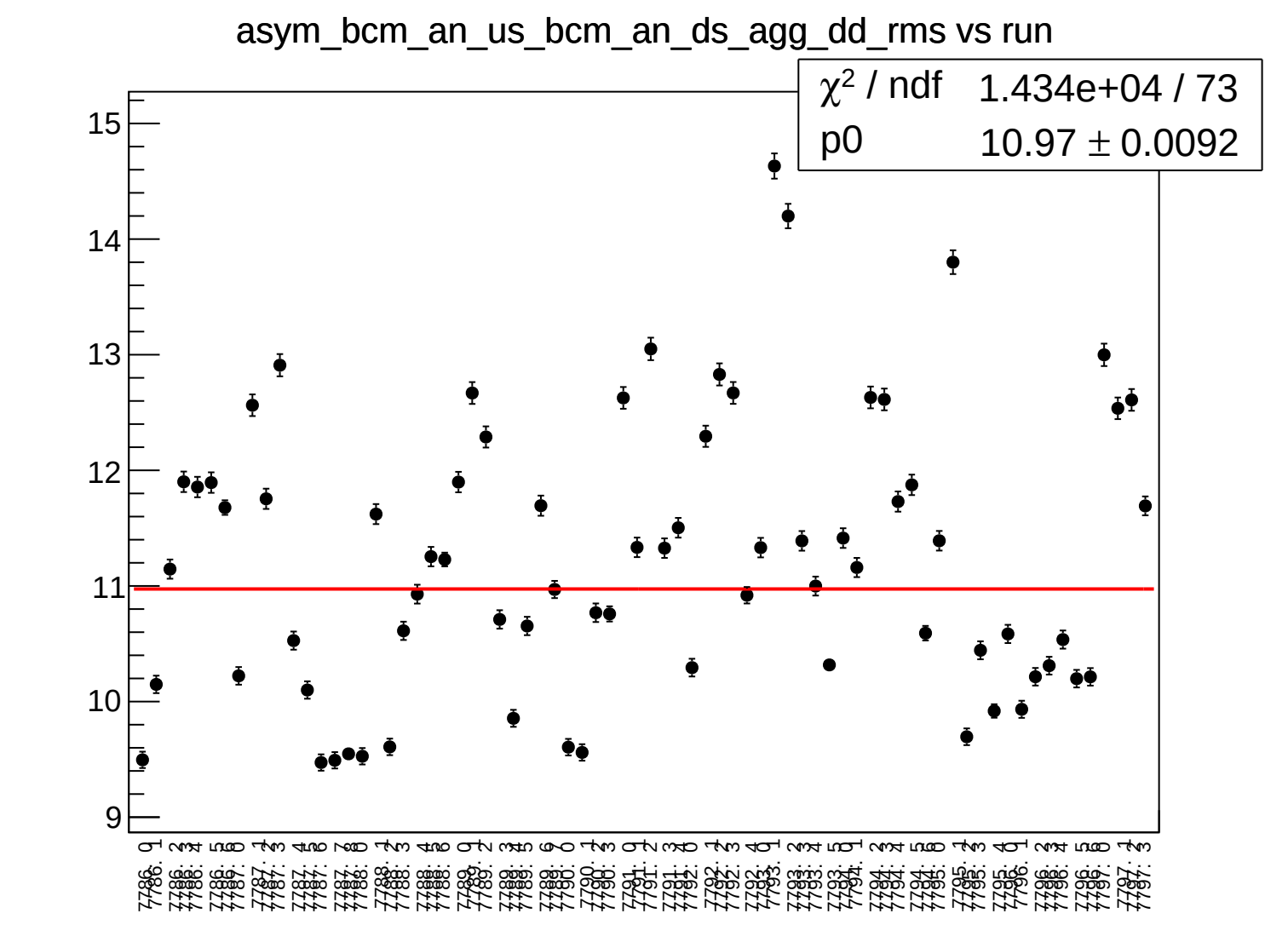

pull1D
Entries 74
Mean 0.01043
Std Dev 0.9478

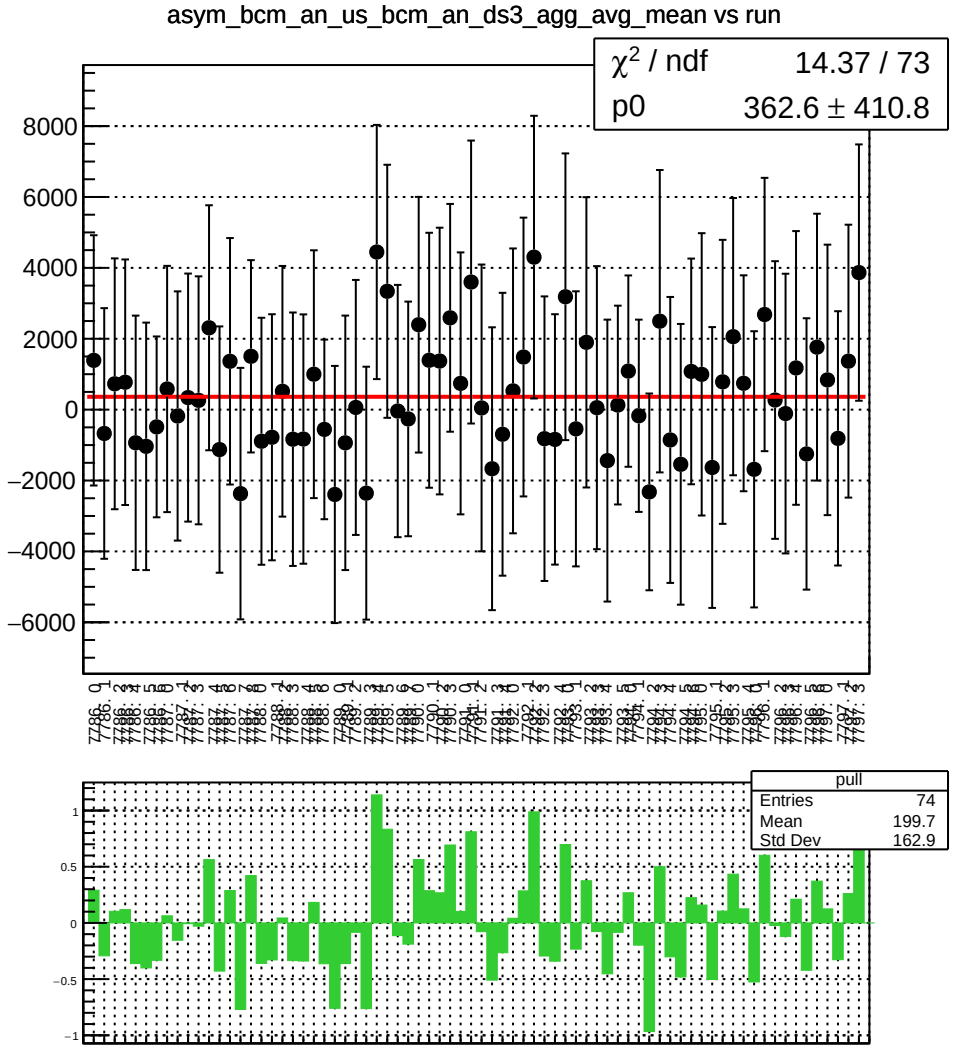

asym_bcm_an_us_ds3_avg_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 6124 / 73
p0 16.05 ± 0.01342
21
20
19
18
17
16
15
14

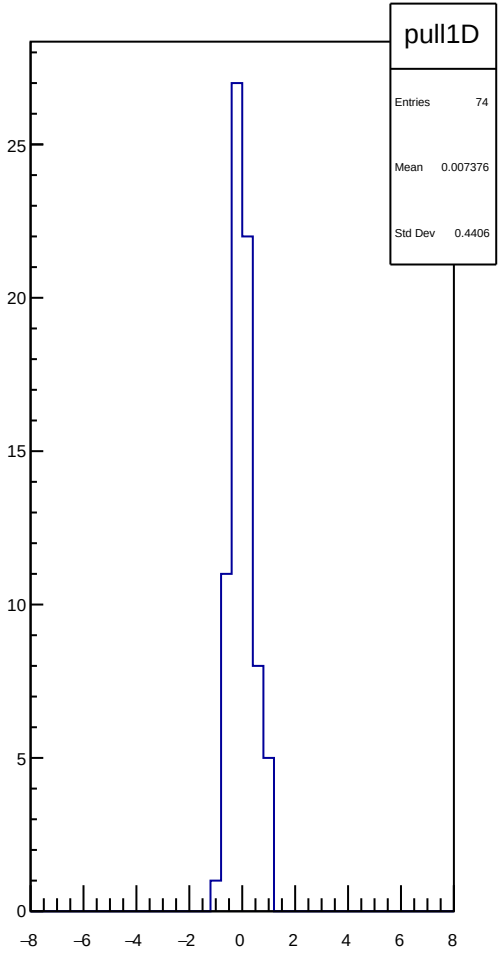

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 82.43 / 73
p0 0.3562 ± 26.03
pull
Entries 74
Mean −45.18
Std Dev 105.2
pull1D
Entries 74
Mean −0.00915
Std Dev 1.055

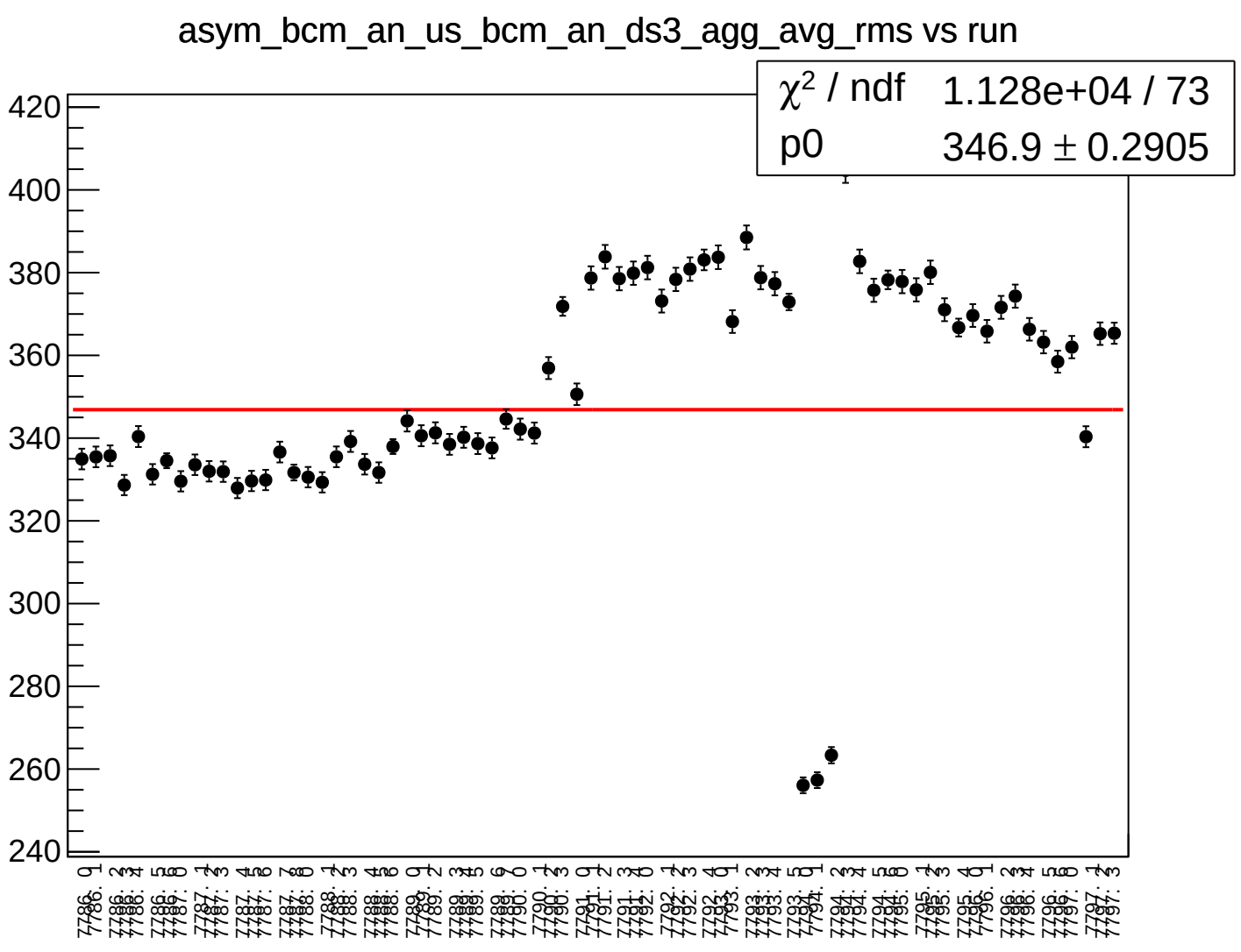

asym_bcm_an_us_ds3_avg_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 3990 / 73
p0 22.04 ± 0.01841
26
25
24
23
22
21
20

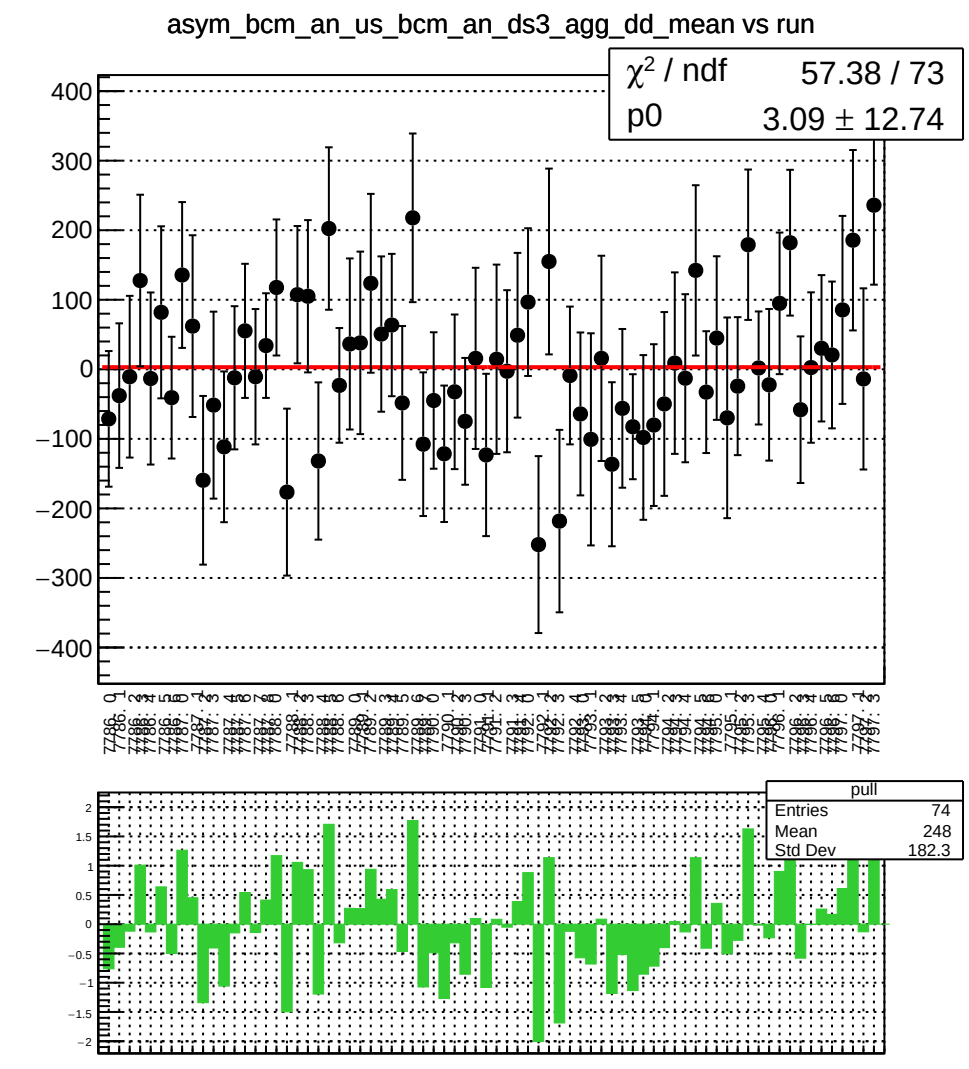

asym_bcm_an_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 53 / 73
p0 0.09131 ± 13.01
pull
Entries 74
Mean −896.5
Std Dev 966.1
pull1D
Entries 74
Mean −0.001291
Std Dev 0.8463

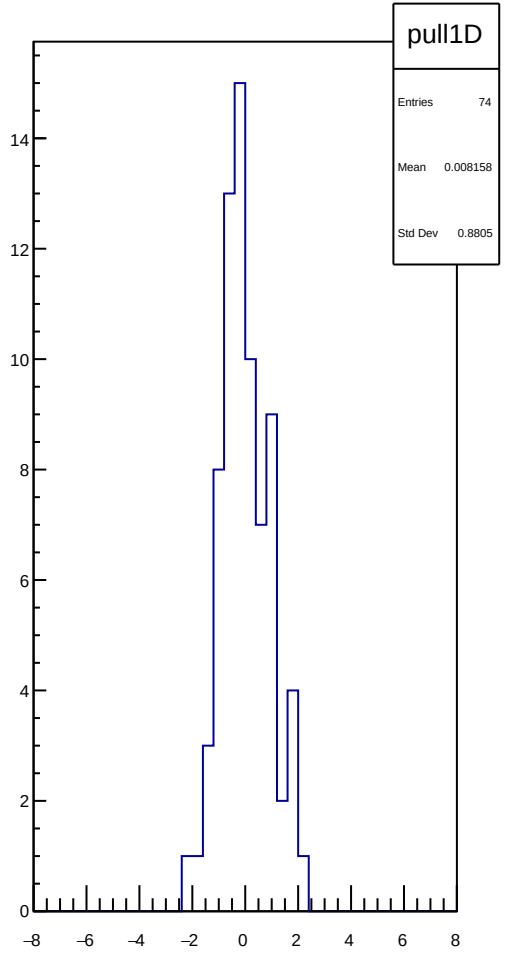

asym_bcm_an_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1.434e+04 / 73
p0 10.97 ± 0.0092
15
14
13
12
11
10
9

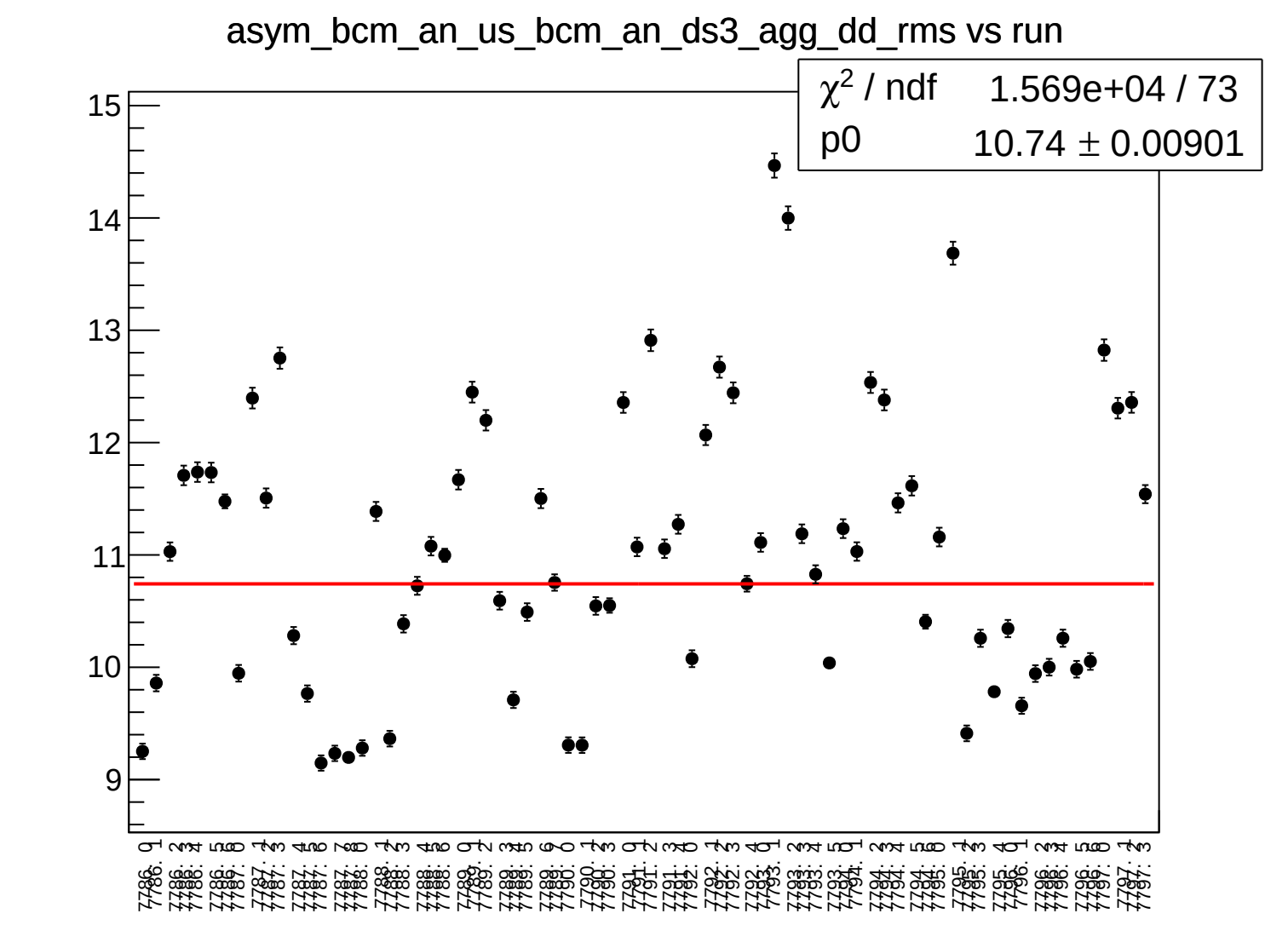

asym_bcm_an_us_bcm_an_ds3_agg_avg_mean vs run
χ² / ndf 14.37 / 73
p0 362.6 ± 410.8
pull
Entries 74
Mean 199.7
Std Dev 162.9

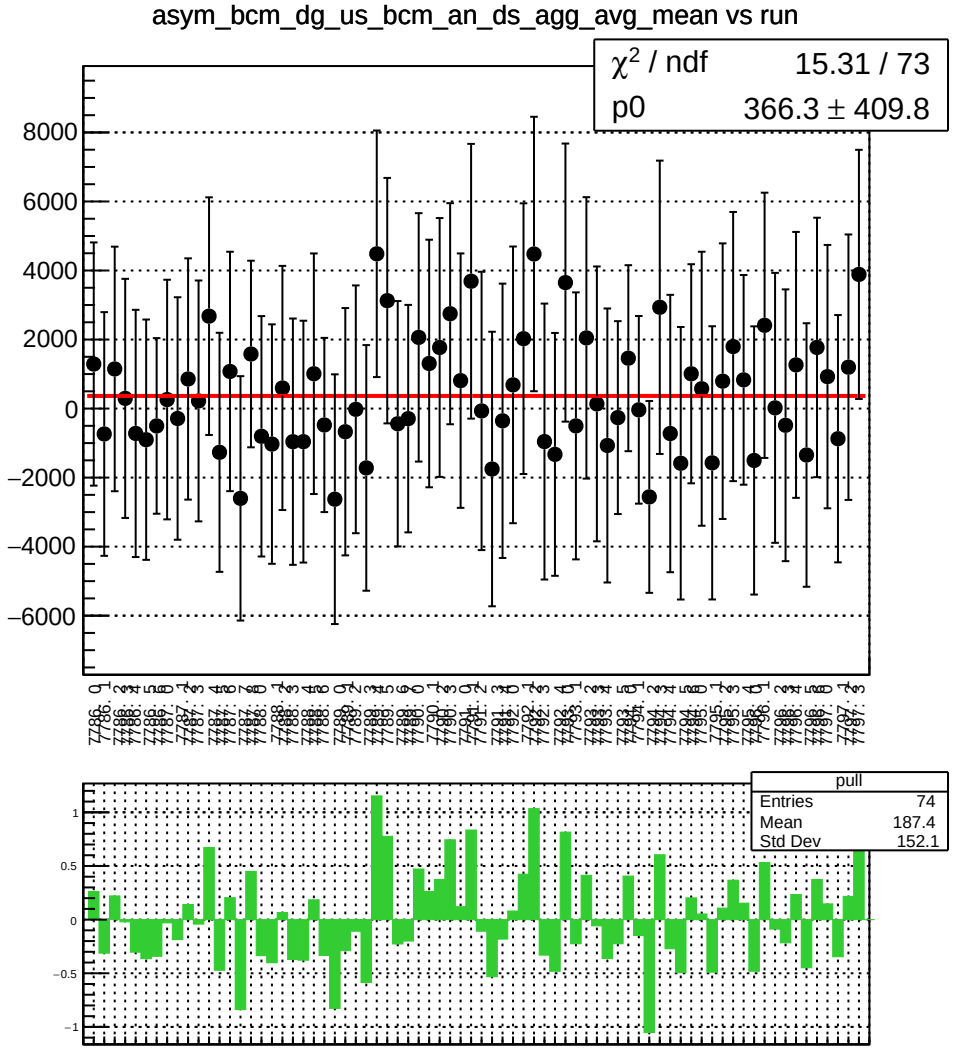

pull1D
Entries 74
Mean 0.007376
Std Dev 0.4406

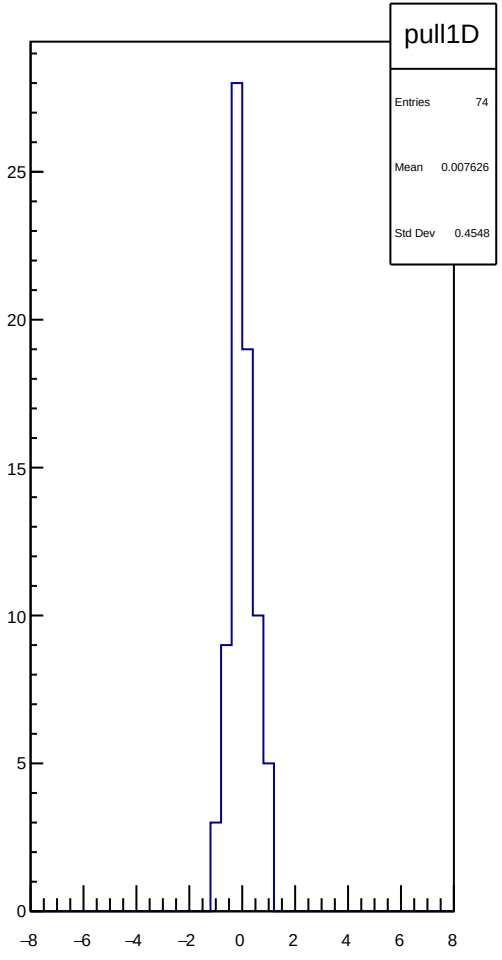

asym_bcm_an_us_bcm_an_ds3_agg_avg_rms vs run
χ² / ndf 1.128e+04 / 73
p0 346.9 ± 0.2905
420
400
380
360
340
320
300
280
260
240

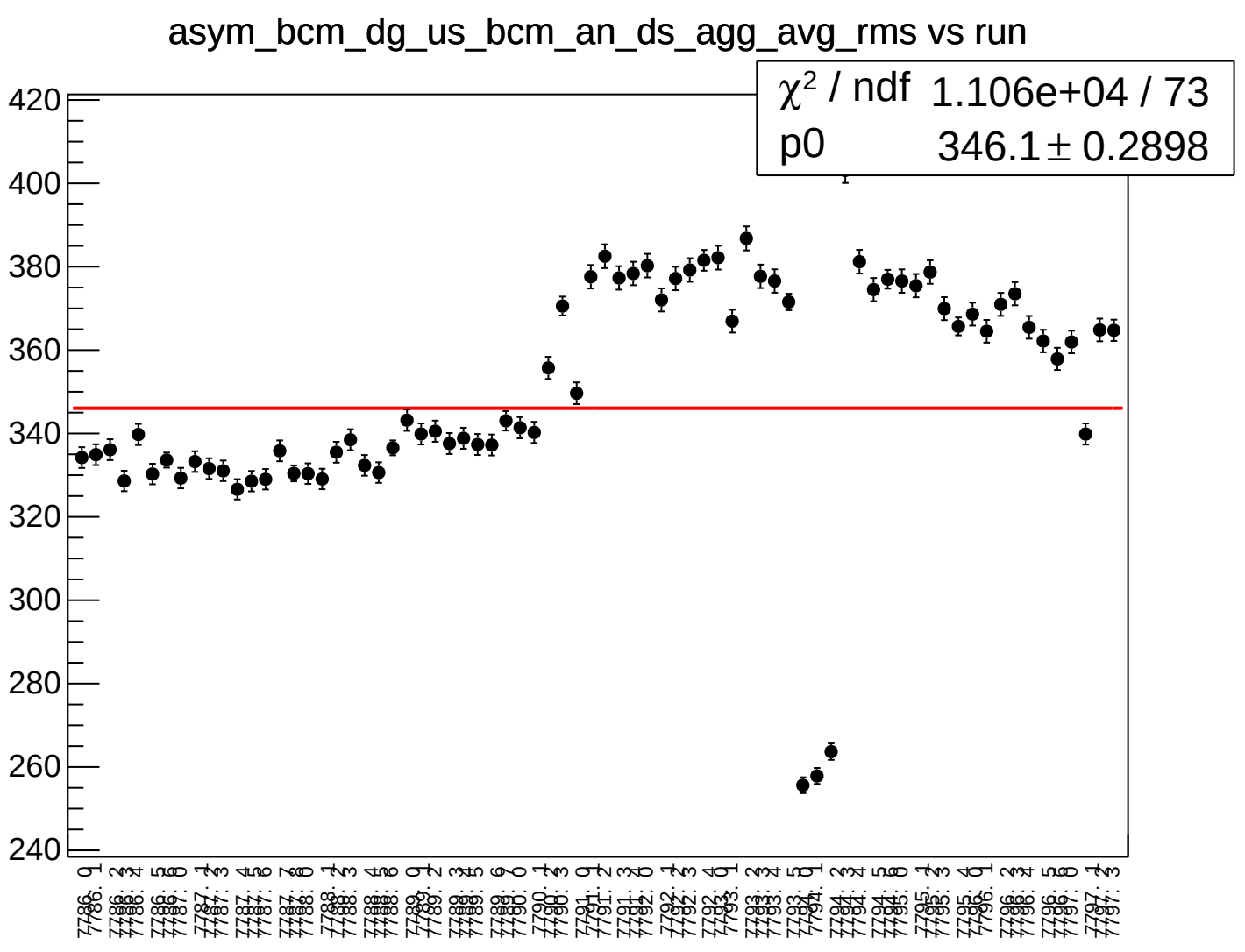

asym_bcm_an_us_bcm_an_ds3_agg_dd_mean vs run
χ² / ndf 57.38 / 73
p0 3.09 ± 12.74
pull
Entries 74
Mean 248
Std Dev 182.3

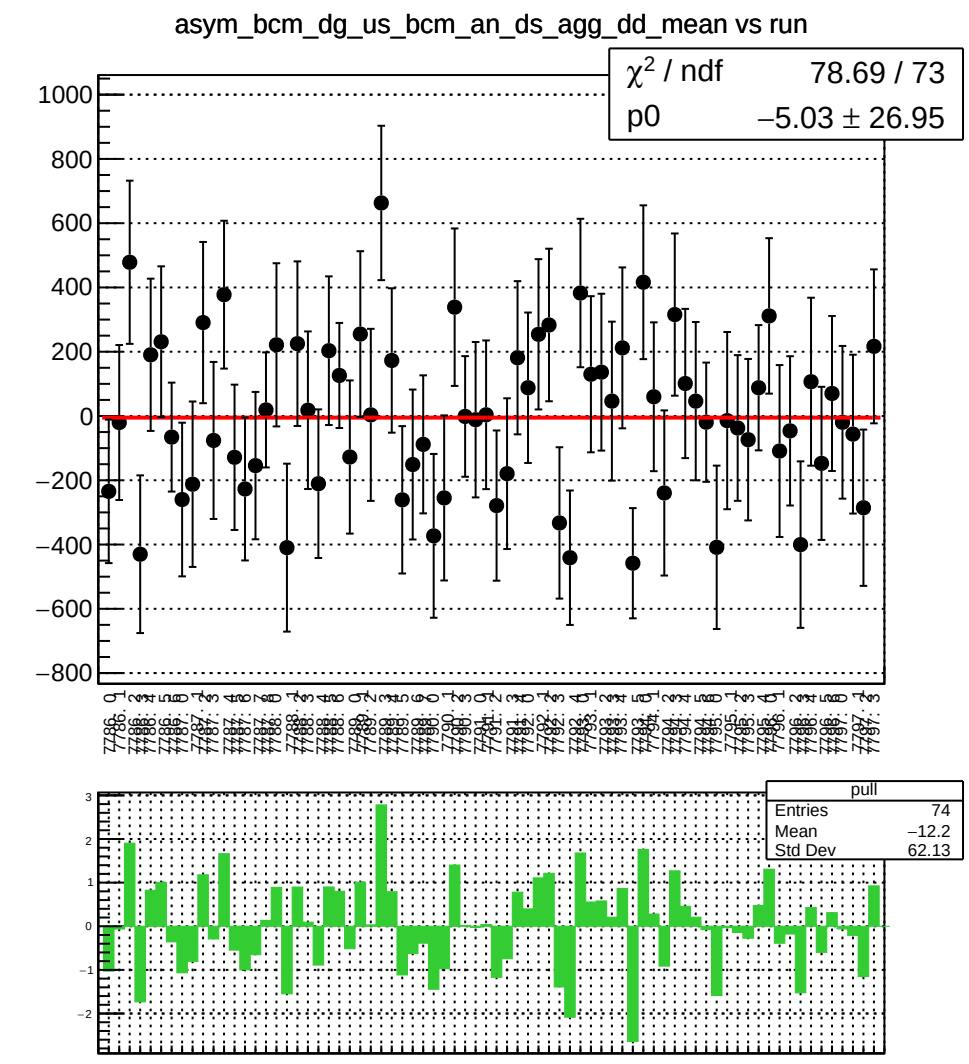

pull1D
Entries 74
Mean 0.008158
Std Dev 0.8805

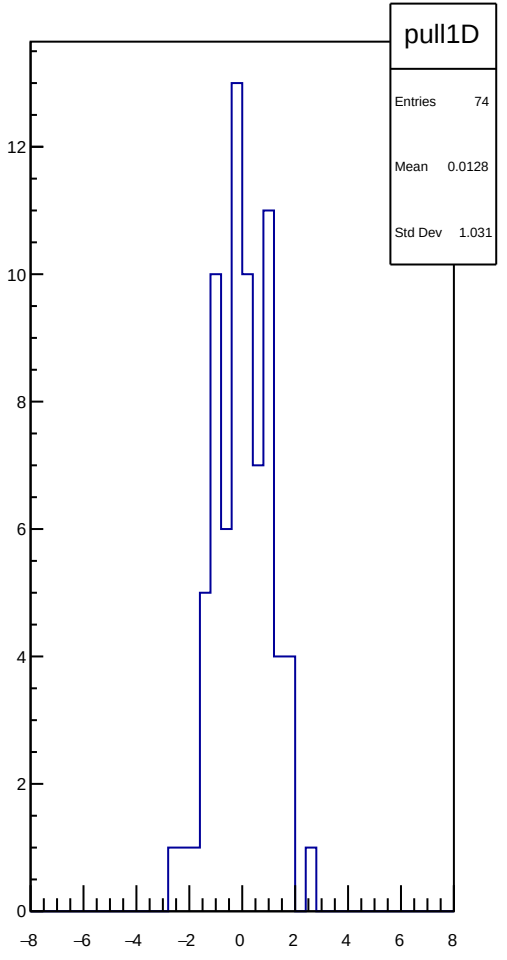

asym_bcm_an_us_bcm_an_ds3_agg_dd_rms vs run
χ² / ndf 1.569e+04 / 73
p0 10.74 ± 0.00901
15
14
13
12
11
10
9

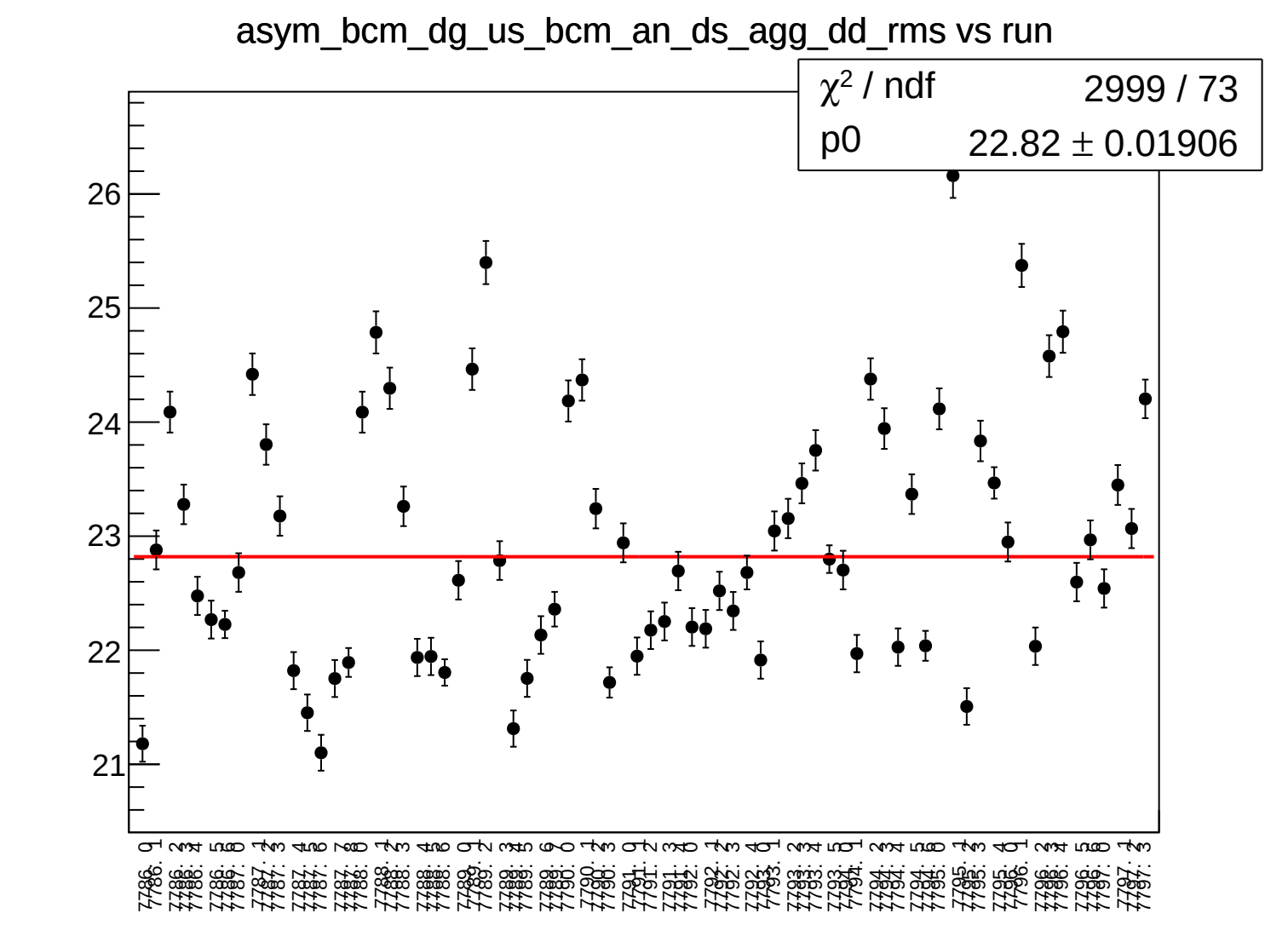

asym_bcm_dg_us_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.31 / 73
p0 366.3 ± 409.8
pull
Entries 74
Mean 187.4
Std Dev 152.1

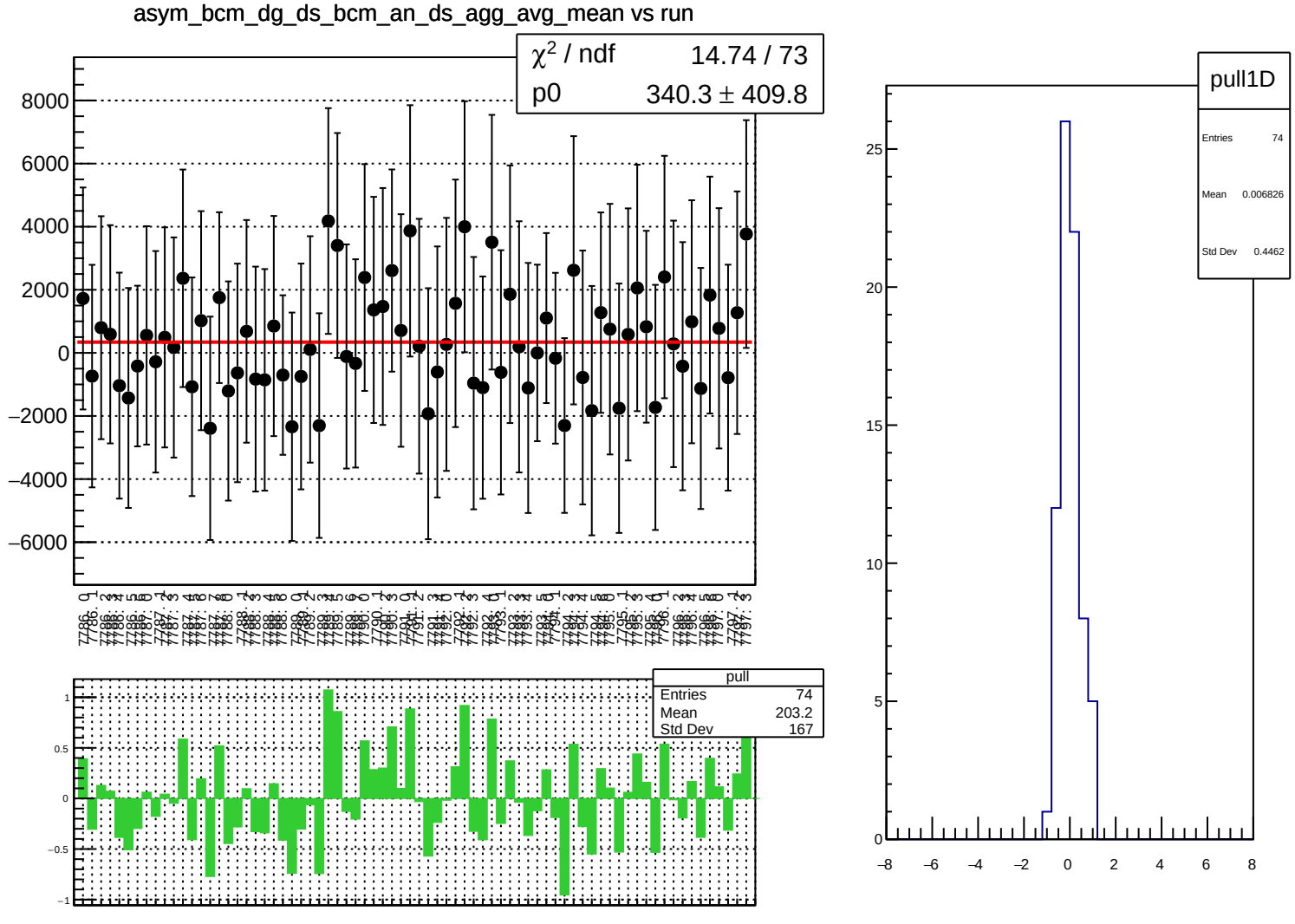

pull1D
Entries 74
Mean 0.007626
Std Dev 0.4548

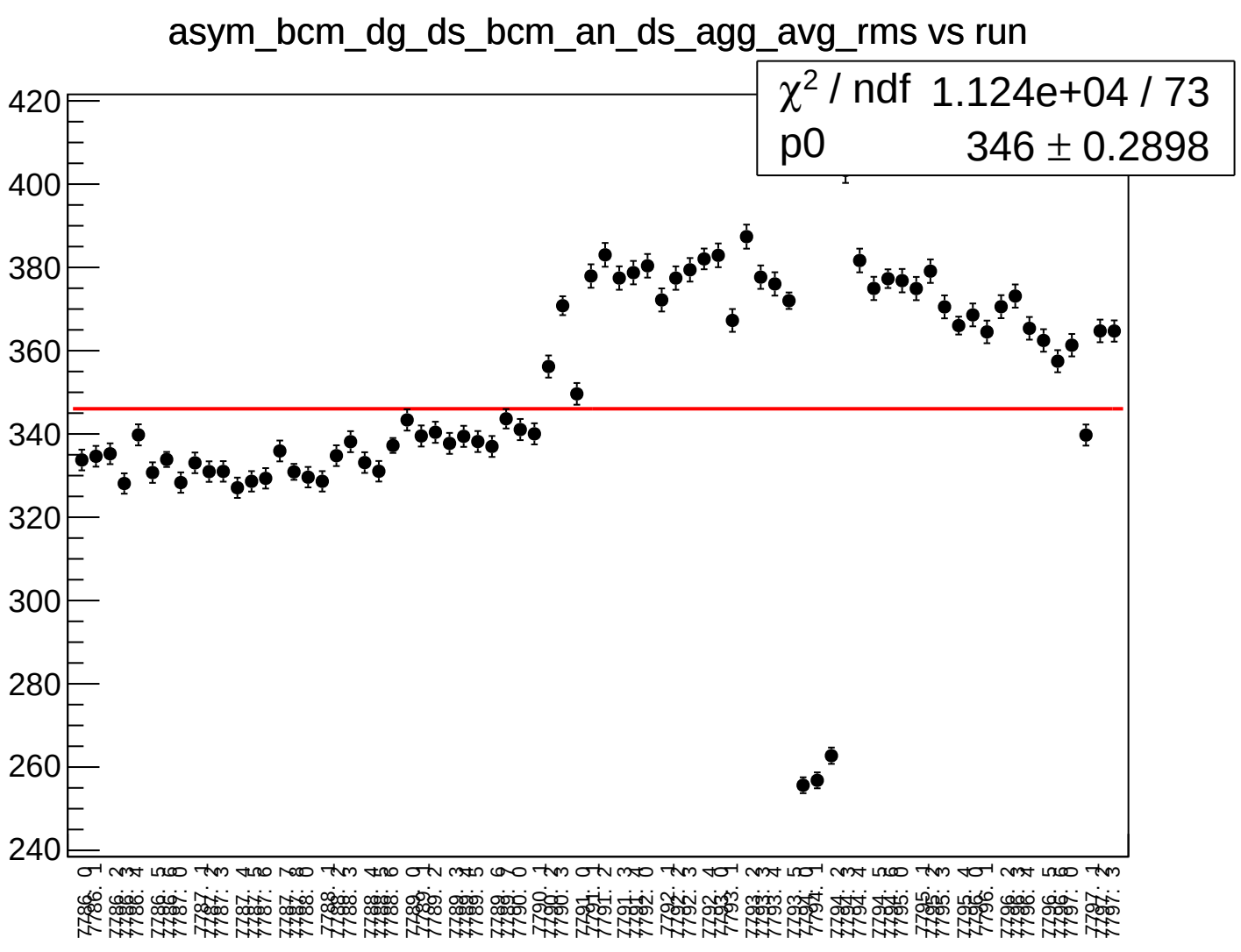

asym_bcm_dg_us_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.106e+04 / 73
p0 346.1 ± 0.2898
420
400
380
360
340
320
300
280
260
240

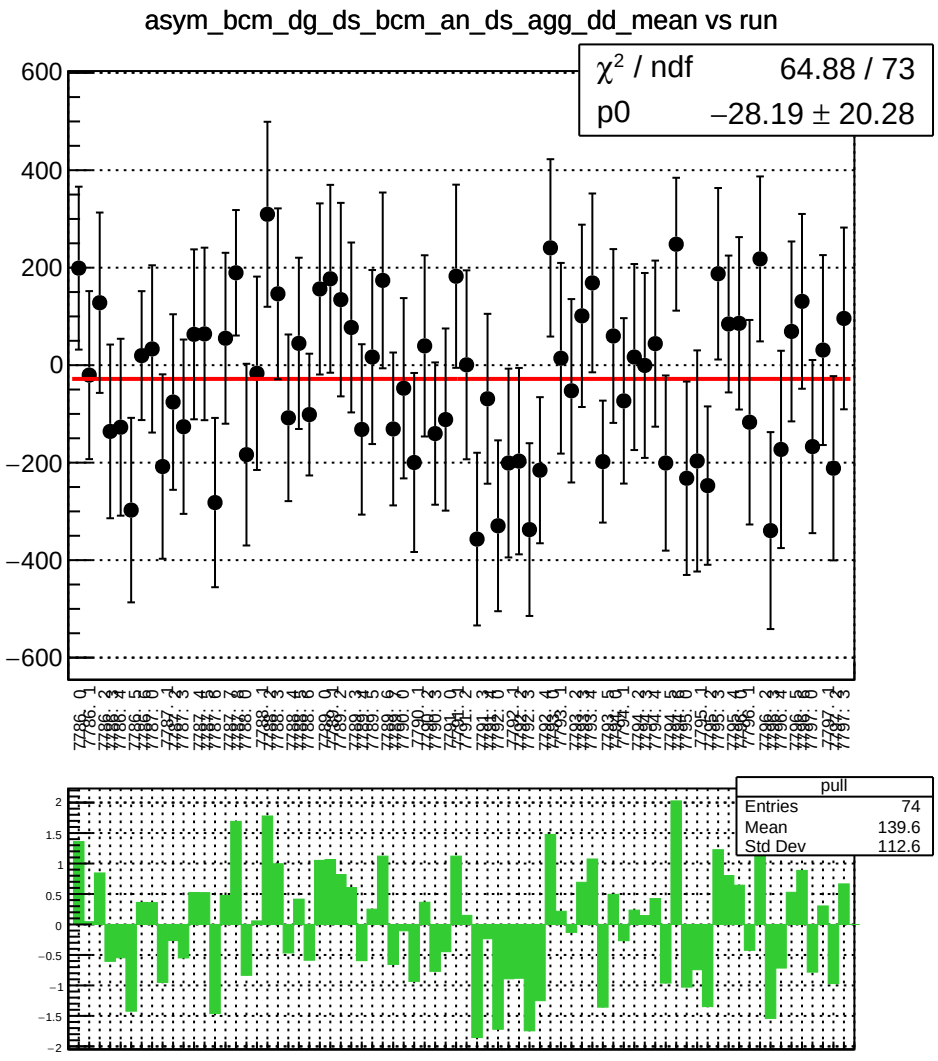

asym_bcm_dg_us_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.69 / 73
p0 −5.03 ± 26.95
pull
Entries 74
Mean −12.2
Std Dev 62.13

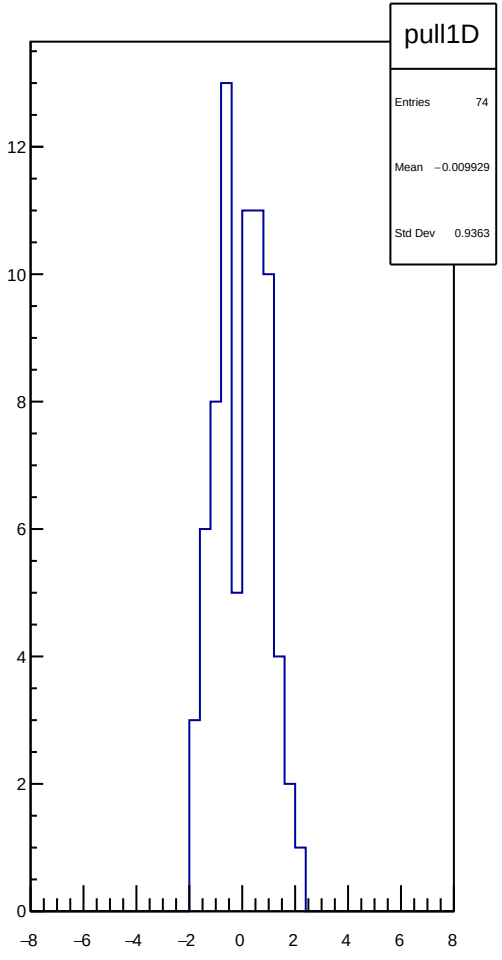

pull1D
Entries 74
Mean 0.0128
Std Dev 1.031

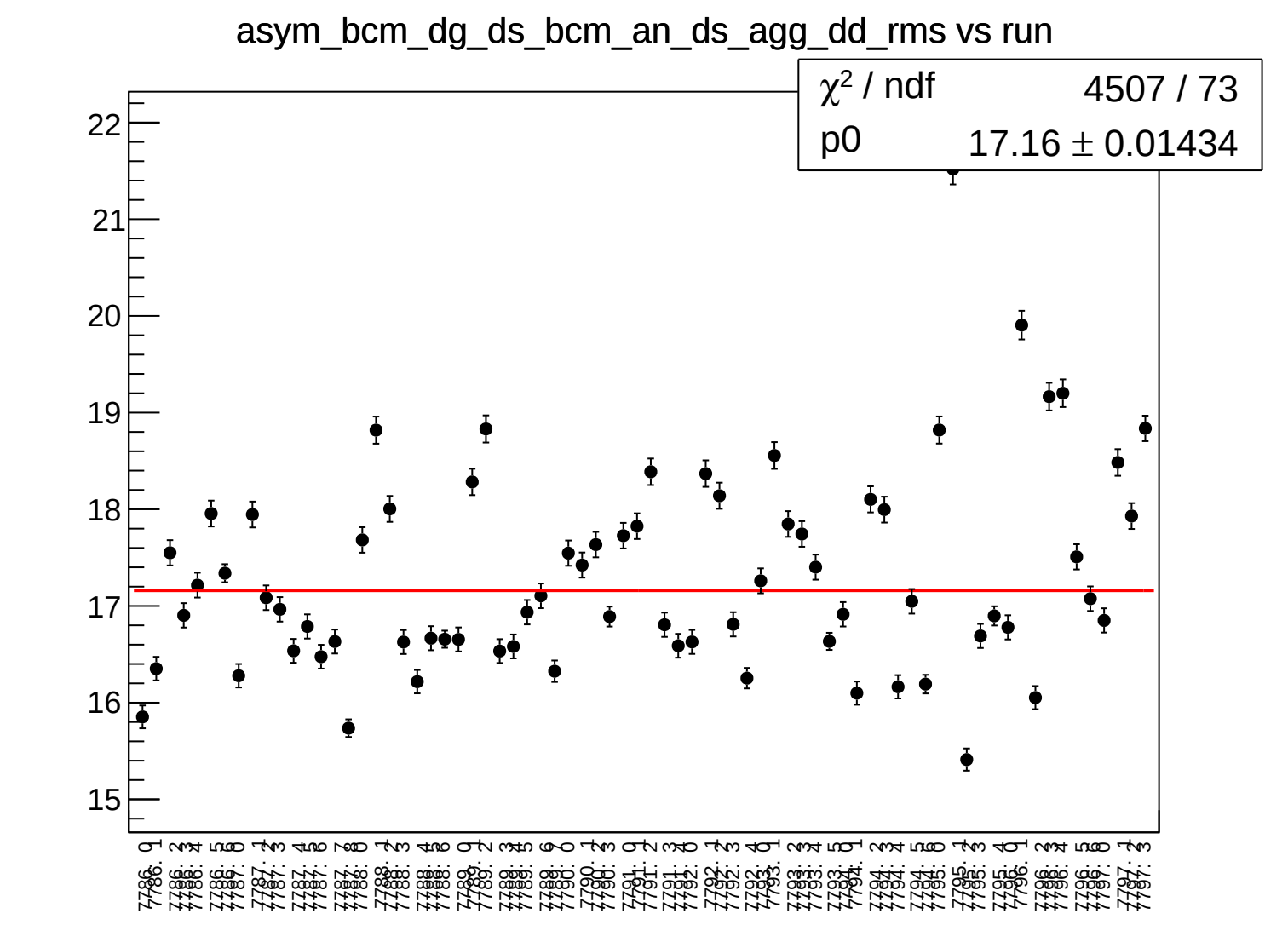

asym_bcm_dg_us_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 2999 / 73
p0 22.82 ± 0.01906
26
25
24
23
22
21

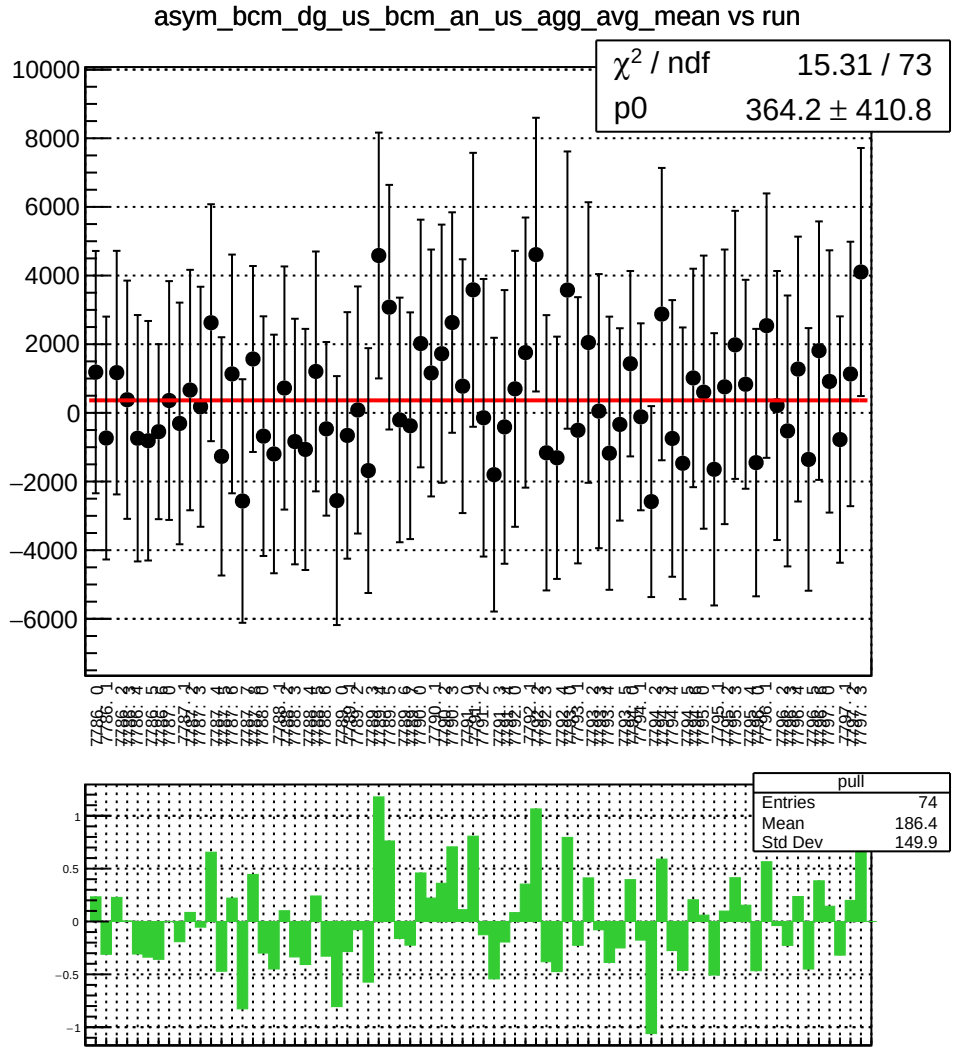

asym_bcm_dg_ds_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 14.74 / 73
p0 340.3 ± 409.8
pull
Entries 74
Mean 203.2
Std Dev 167
pull1D
Entries 74
Mean 0.006826
Std Dev 0.4462

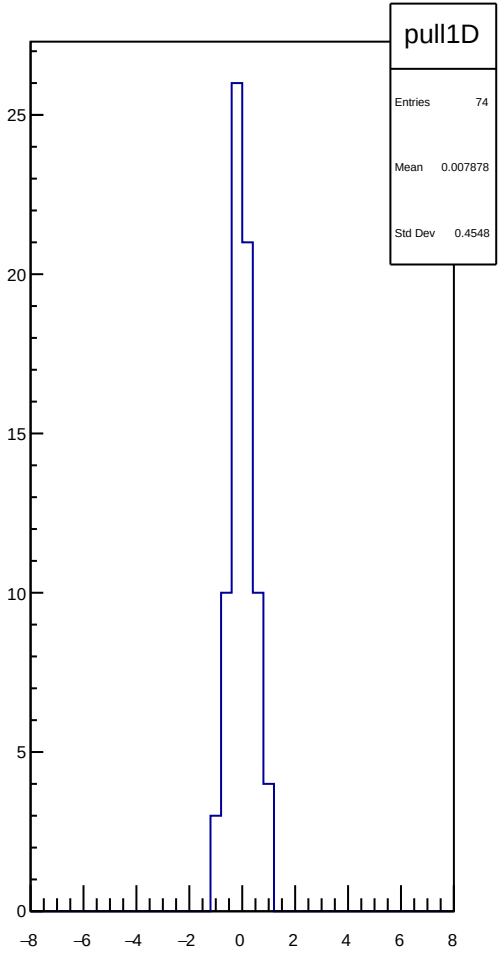

asym_bcm_dg_ds_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.124e+04 / 73
p0 346 ± 0.2898
420
400
380
360
340
320
300
280
260
240

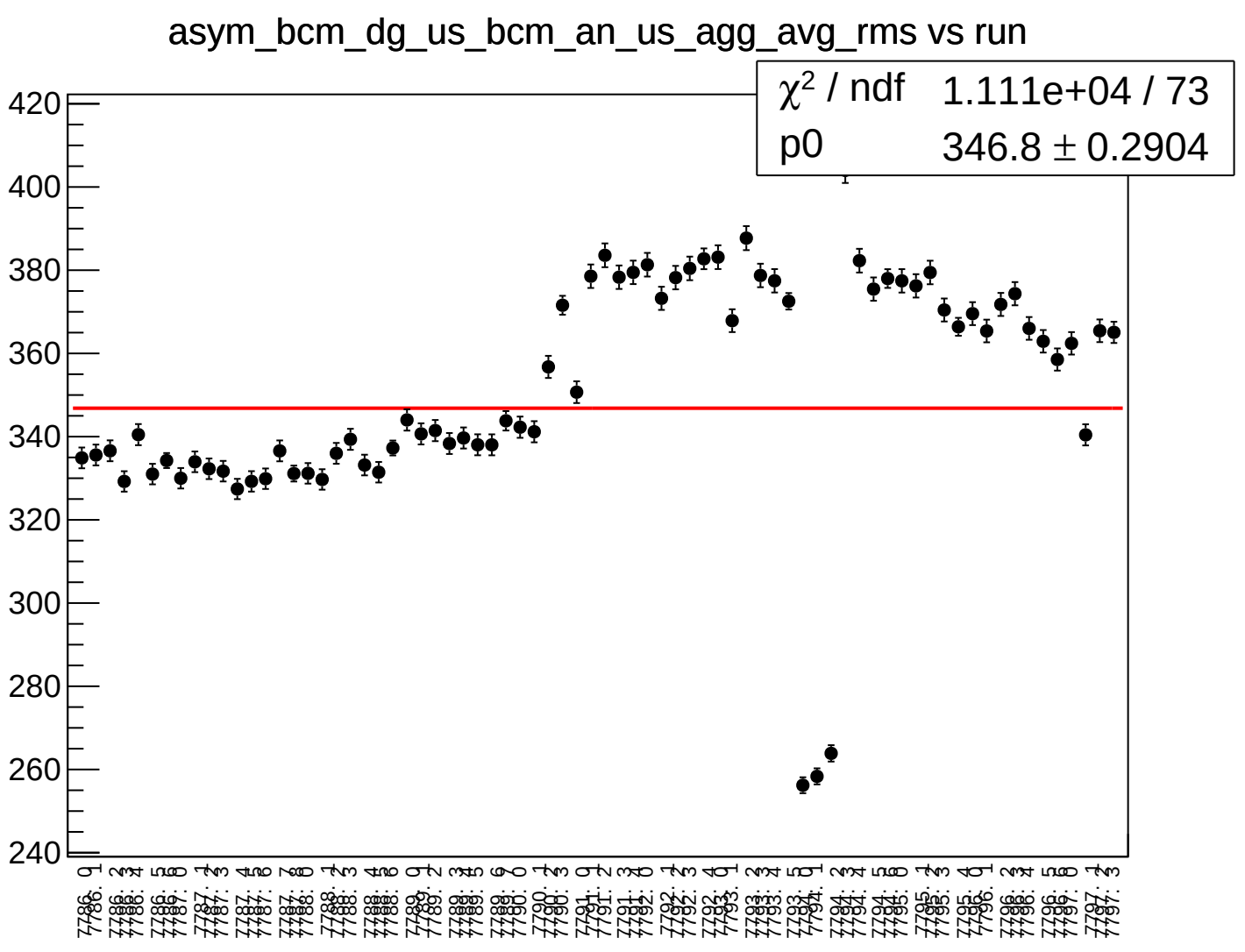

asym_bcm_dg_ds_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 64.88 / 73
p0 −28.19 ± 20.28
pull
Entries 74
Mean 139.6
Std Dev 112.6

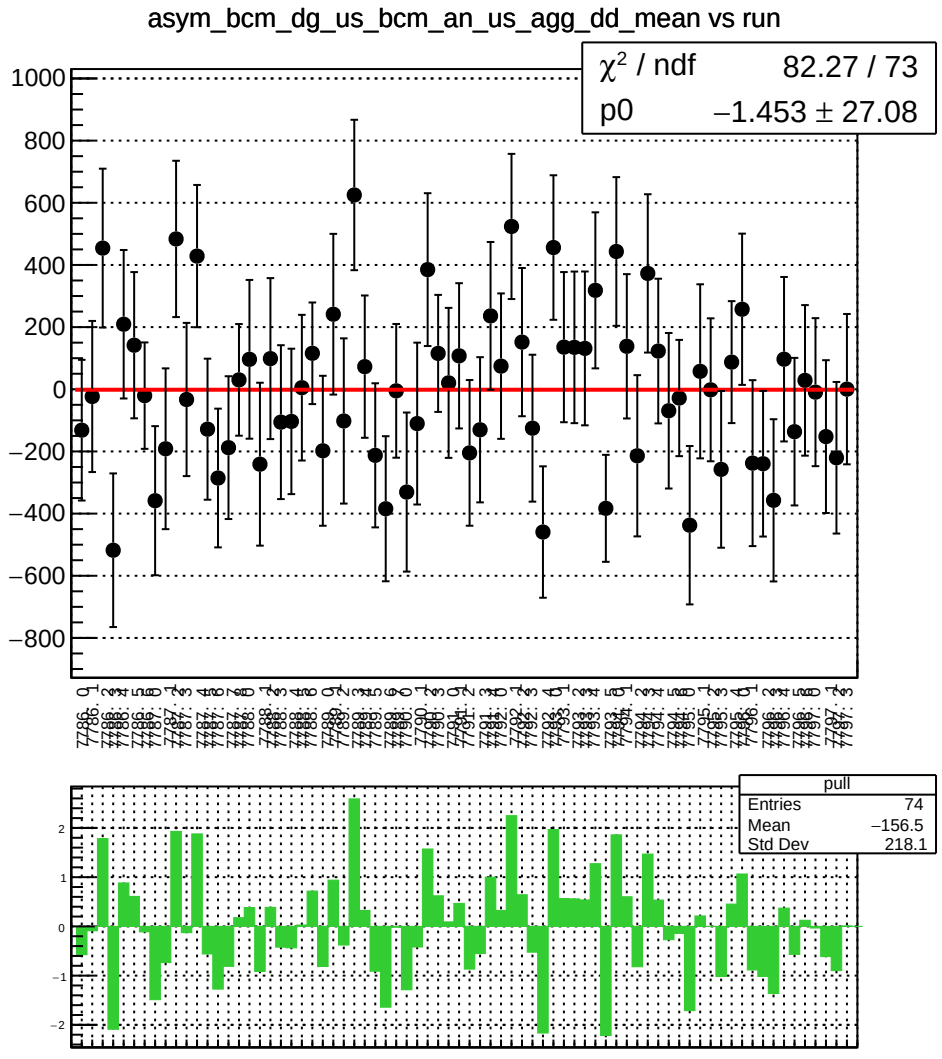

pull1D
Entries 74
Mean −0.009929
Std Dev 0.9363

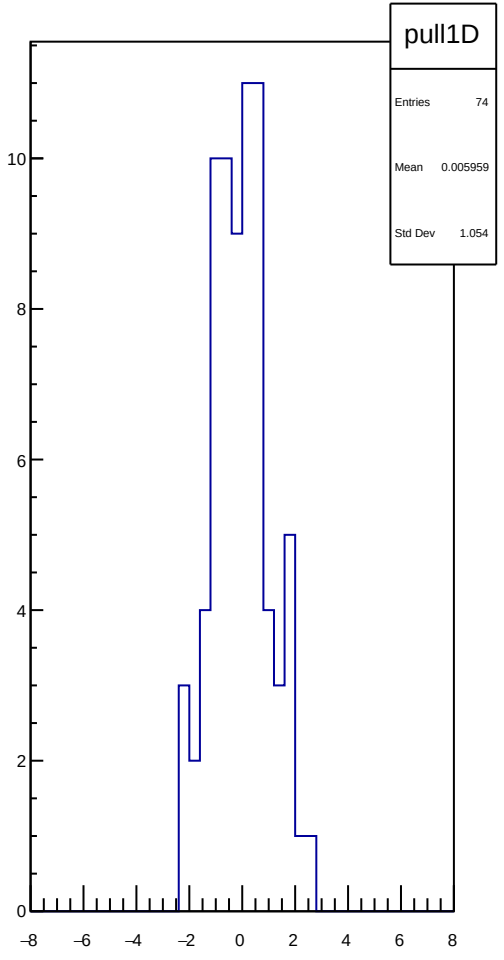

asym_bcm_dg_ds_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 4507 / 73
p0 17.16 ± 0.01434
22
21
20
19
18
17
16
15

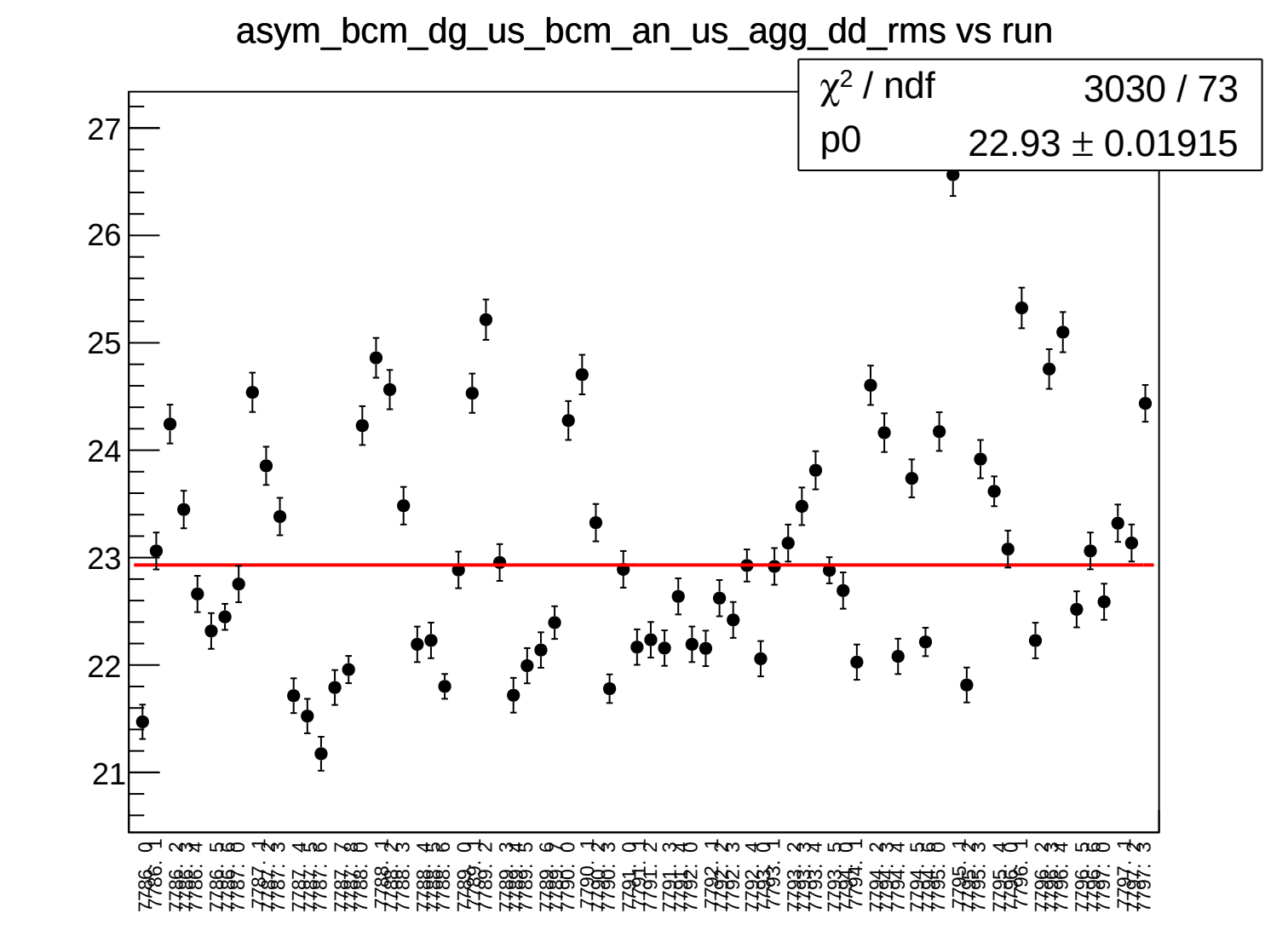

asym_bcm_dg_us_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.31 / 73
p0 364.2 ± 410.8
pull
Entries 74
Mean 186.4
Std Dev 149.9


pull1D
Entries 74
Mean 0.007878
Std Dev 0.4548


asym_bcm_dg_us_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.111e+04 / 73
p0 346.8 ± 0.2904
420
400
380
360
340
320
300
280
260
240


asym_bcm_dg_us_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.27 / 73
p0 −1.453 ± 27.08
pull
Entries 74
Mean −156.5
Std Dev 218.1


pull1D
Entries 74
Mean 0.005959
Std Dev 1.054


asym_bcm_dg_us_bcm_an_us_agg_dd_rms vs run
χ² / ndf 3030 / 73
p0 22.93 ± 0.01915
27
26
25
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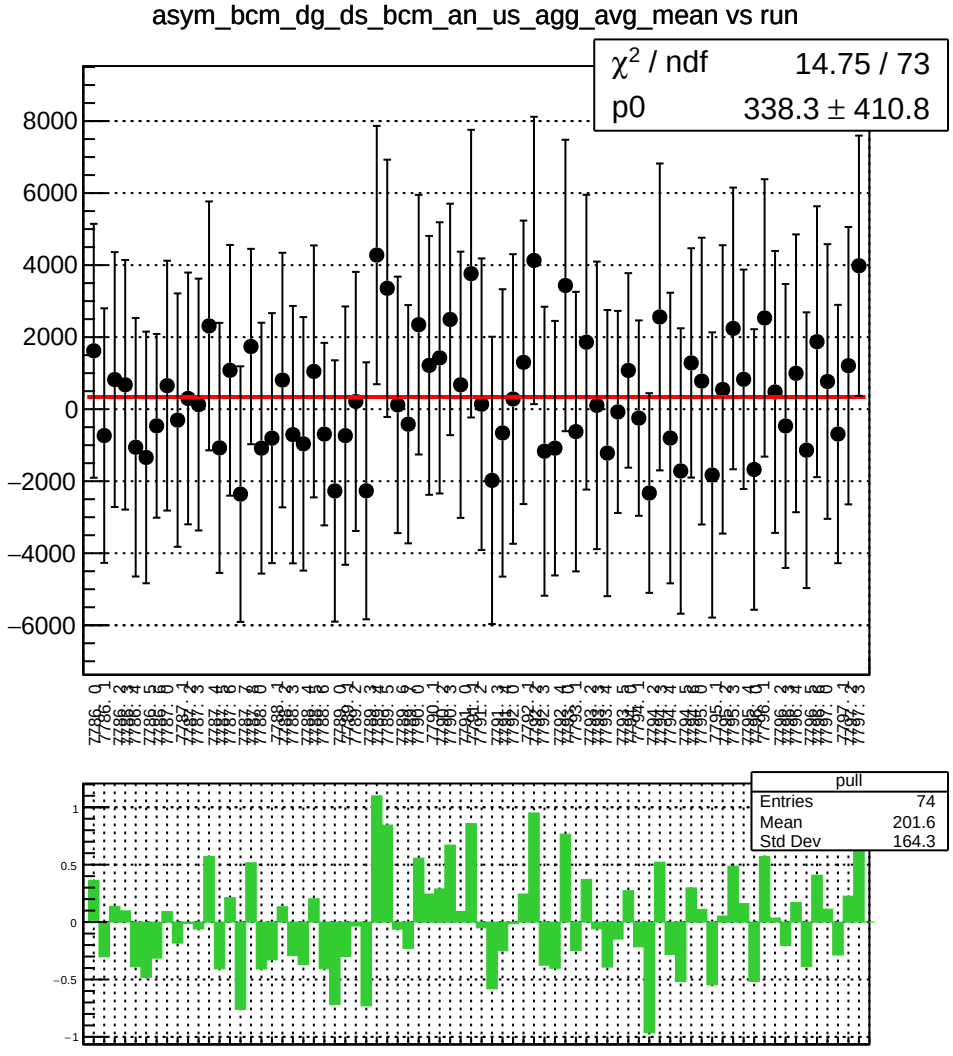
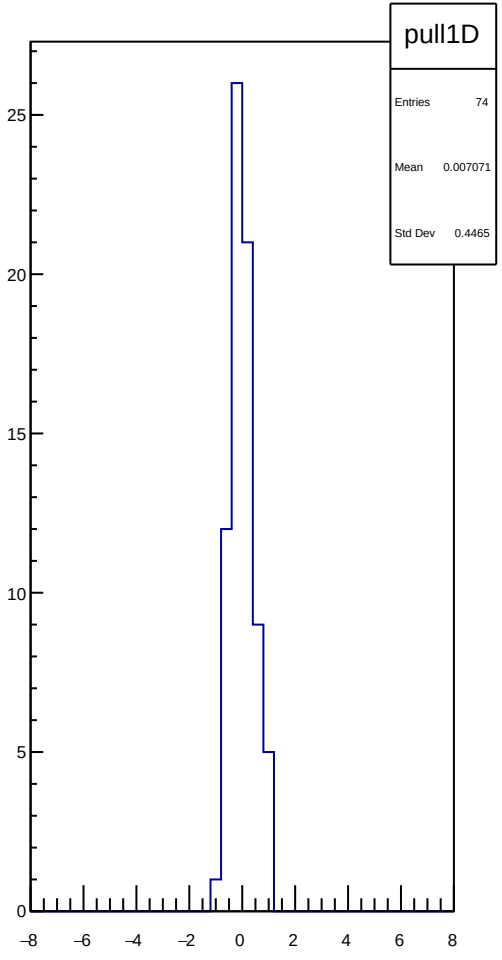
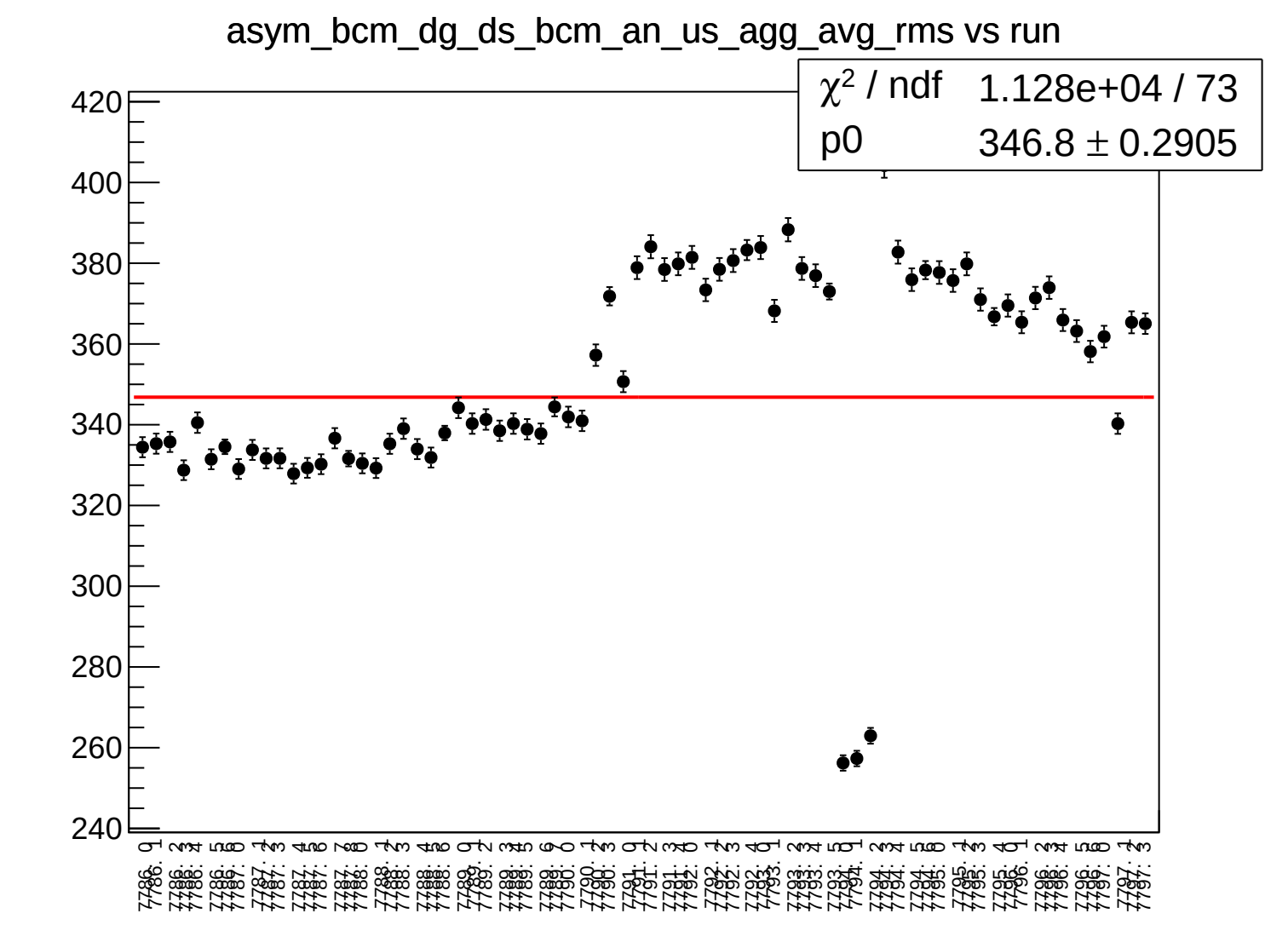
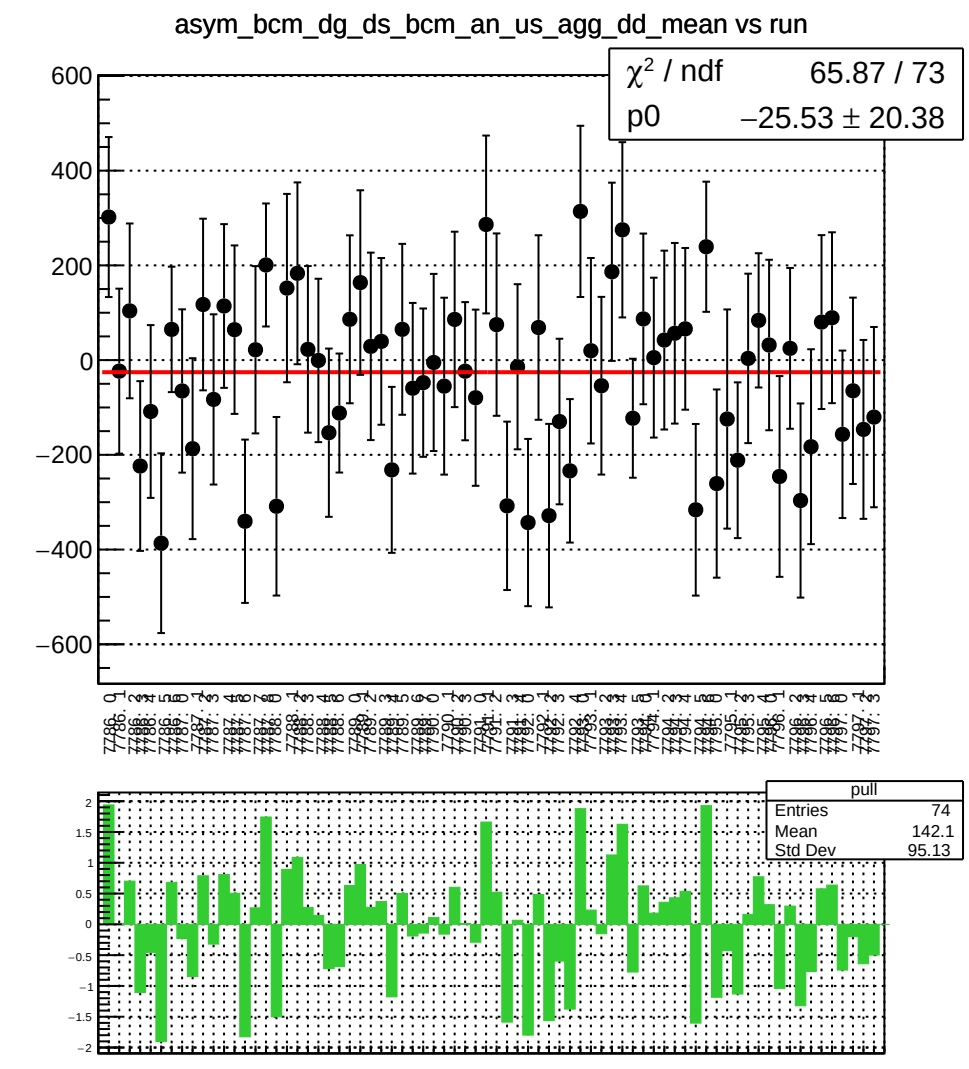
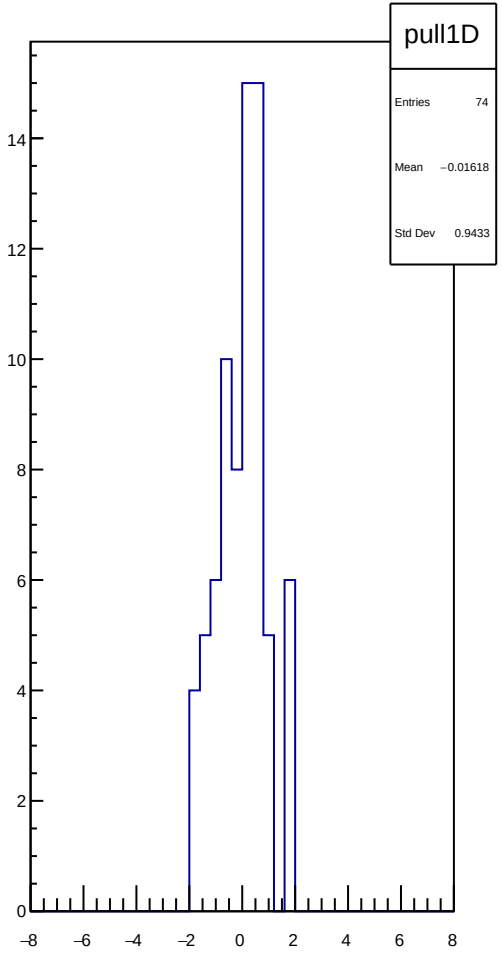
22
21

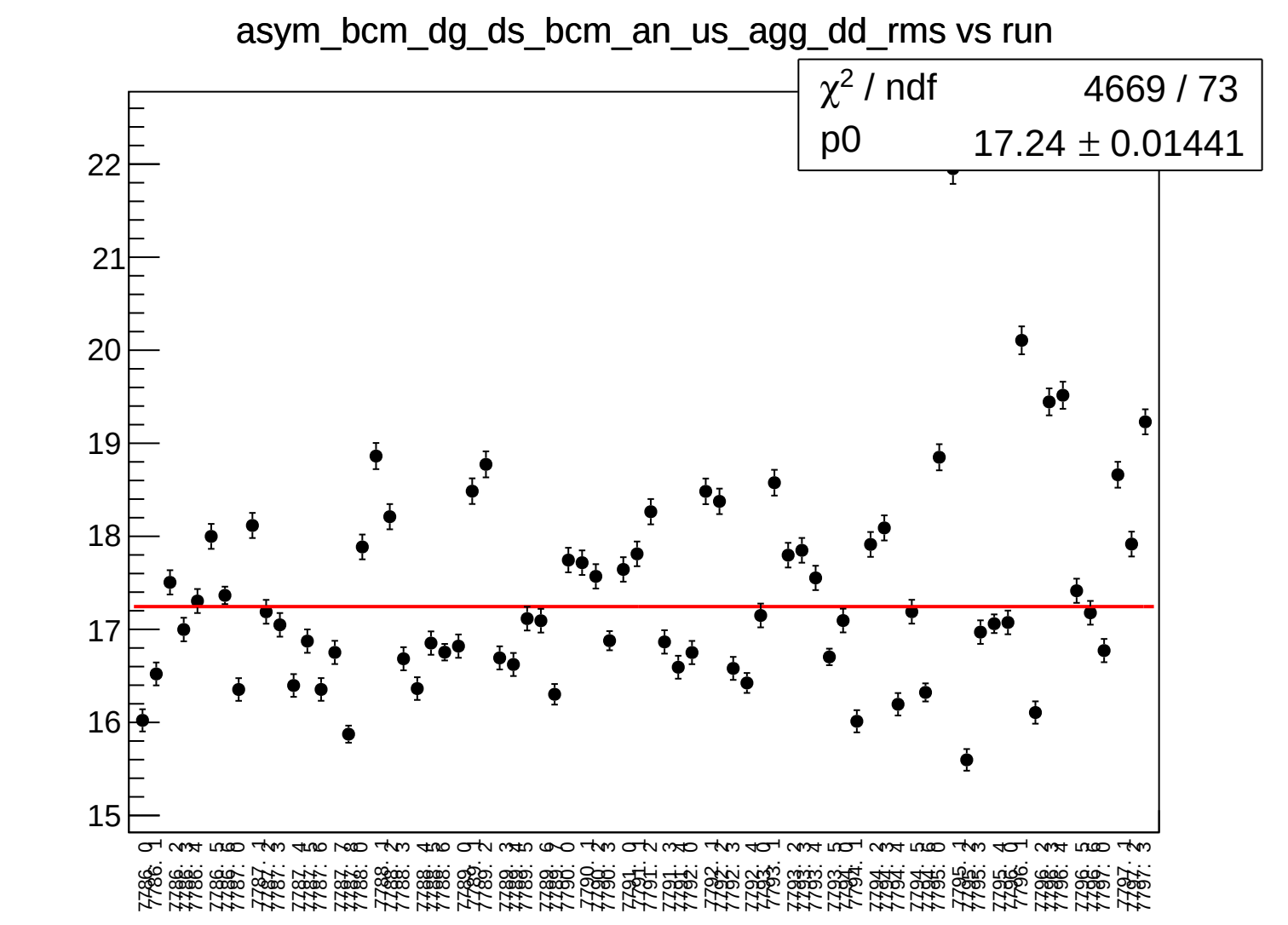

asym_bcm_dg_ds_bcm_an_us_agg_avg_mean vs run
χ² / ndf 14.75 / 73
p0 338.3 ± 410.8
pull
Entries 74
Mean 201.6
Std Dev 164.3

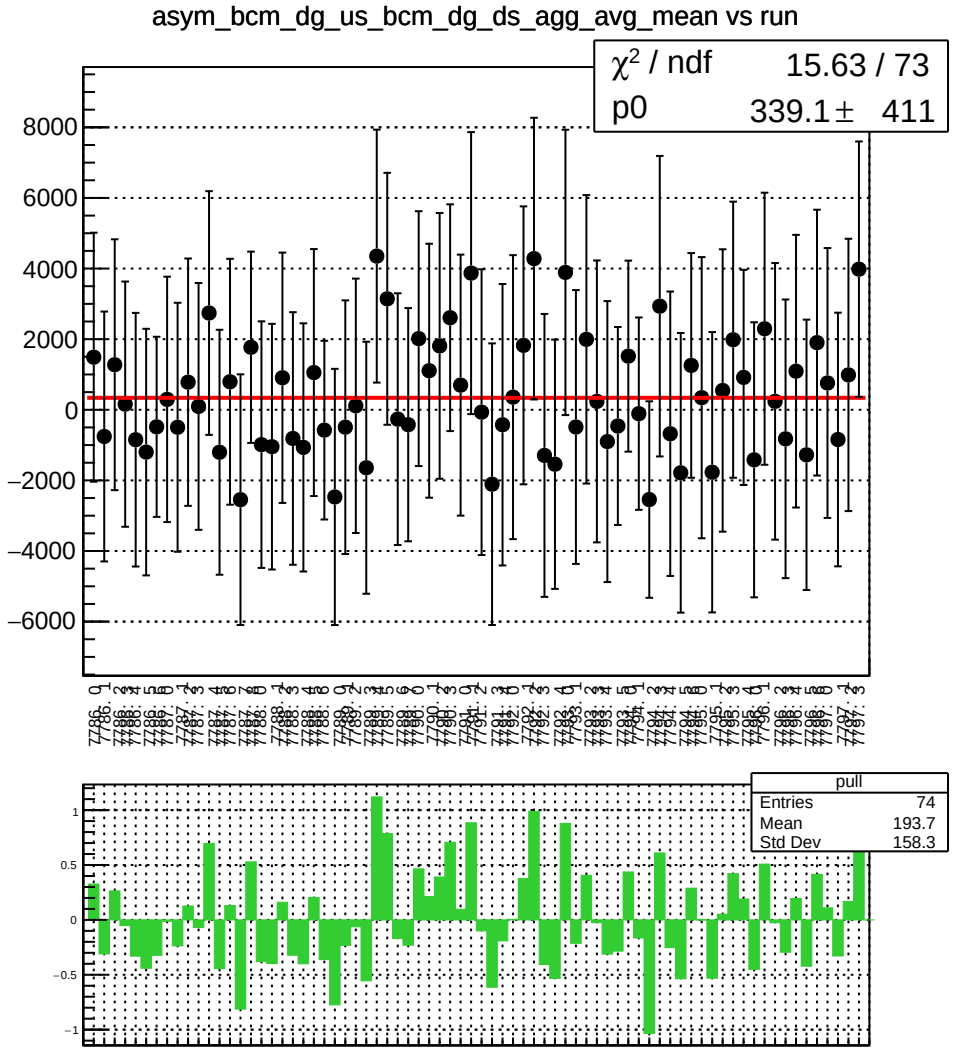

pull1D
Entries 74
Mean 0.007071
Std Dev 0.4465

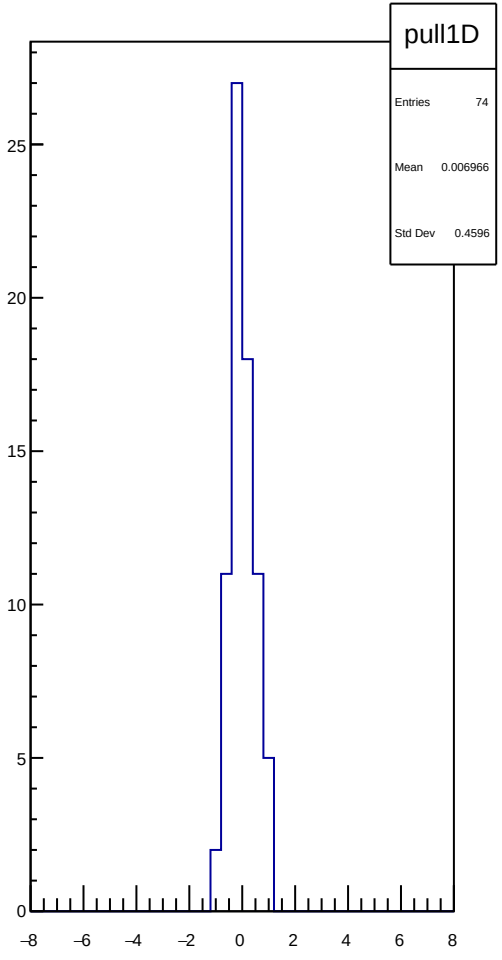

asym_bcm_dg_ds_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.128e+04 / 73
p0 346.8 ± 0.2905
420
400
380
360
340
320
300
280
260
240

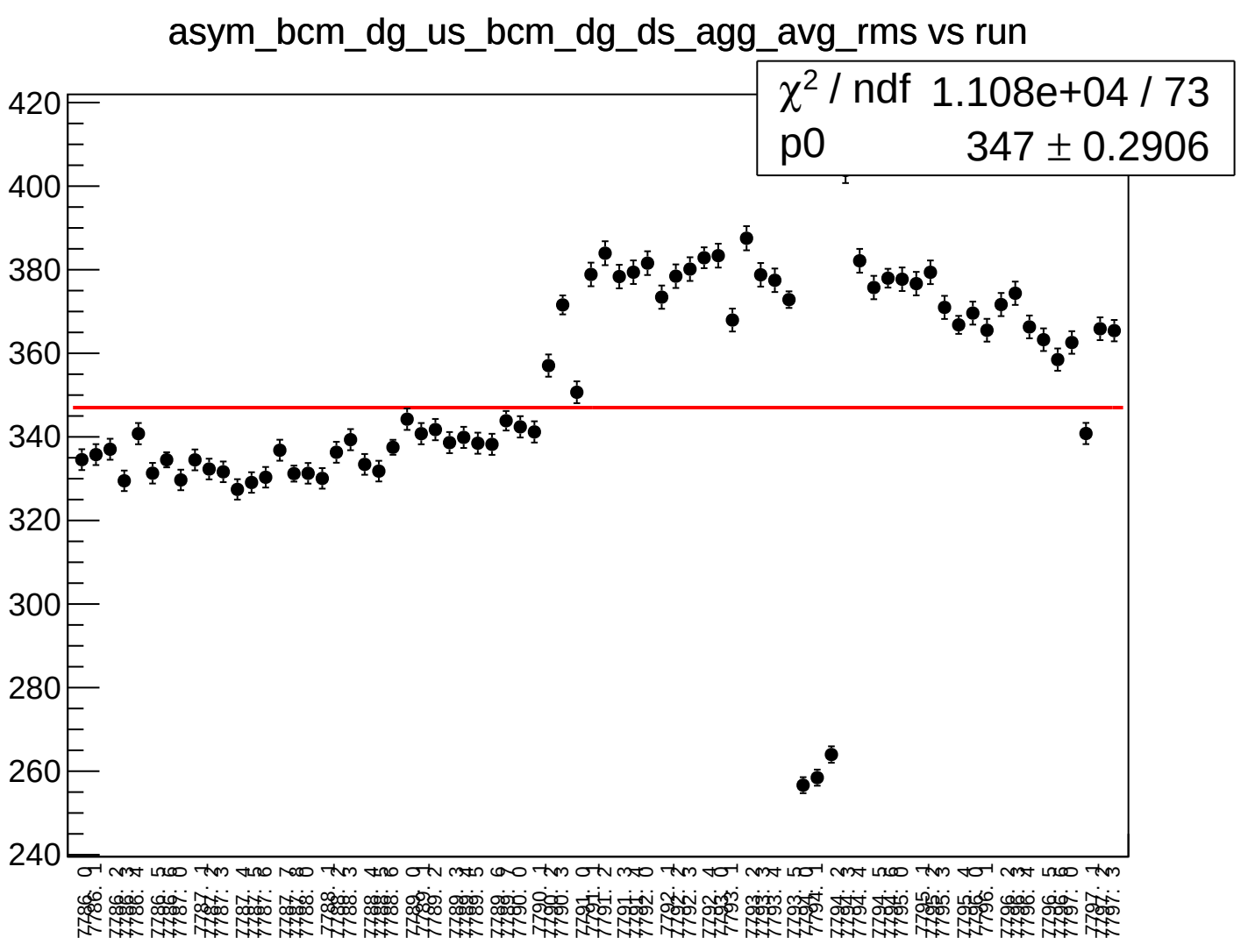

asym_bcm_dg_ds_bcm_an_us_agg_dd_mean vs run
χ² / ndf 65.87 / 73
p0 −25.53 ± 20.38
pull
Entries 74
Mean 142.1
Std Dev 95.13

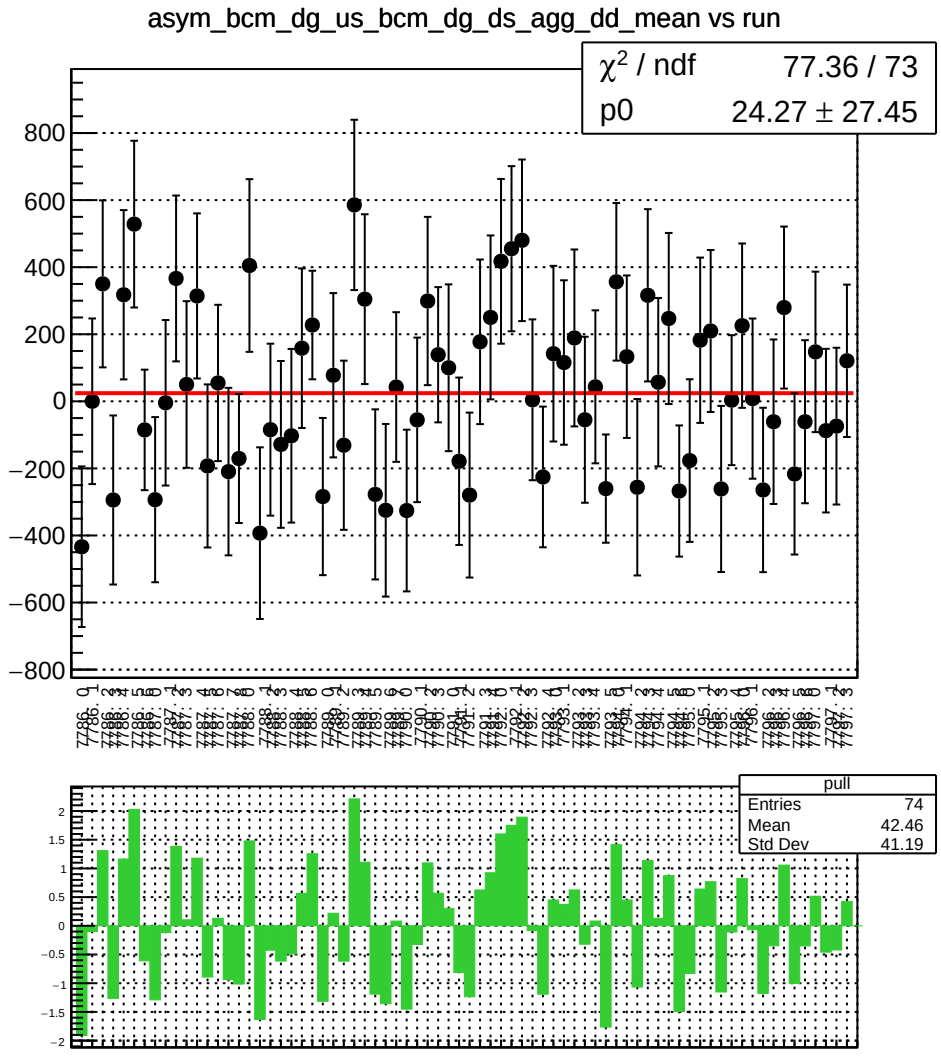

pull1D
Entries 74
Mean −0.01618
Std Dev 0.9433

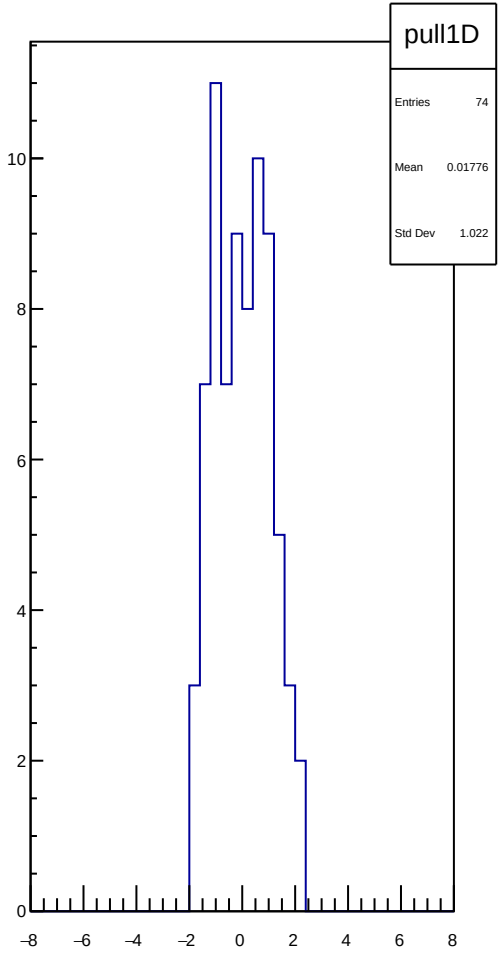

asym_bcm_dg_ds_bcm_an_us_agg_dd_rms vs run
χ² / ndf 4669 / 73
p0 17.24 ± 0.01441
22
21
20
19
18
17
16
15

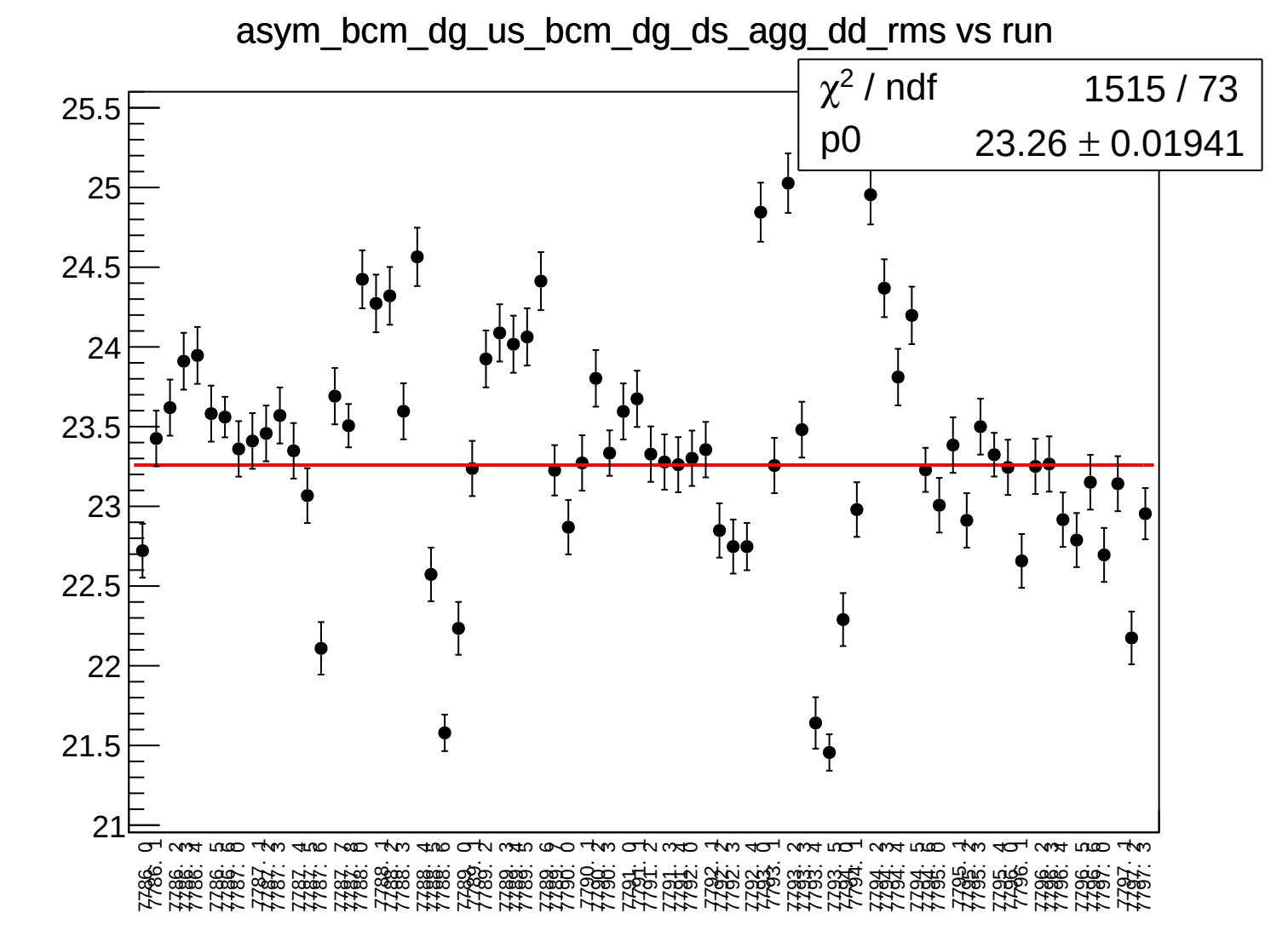

asym_bcm_dg_us_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.63 / 73
p0 339.1 ± 411
pull
Entries 74
Mean 193.7
Std Dev 158.3

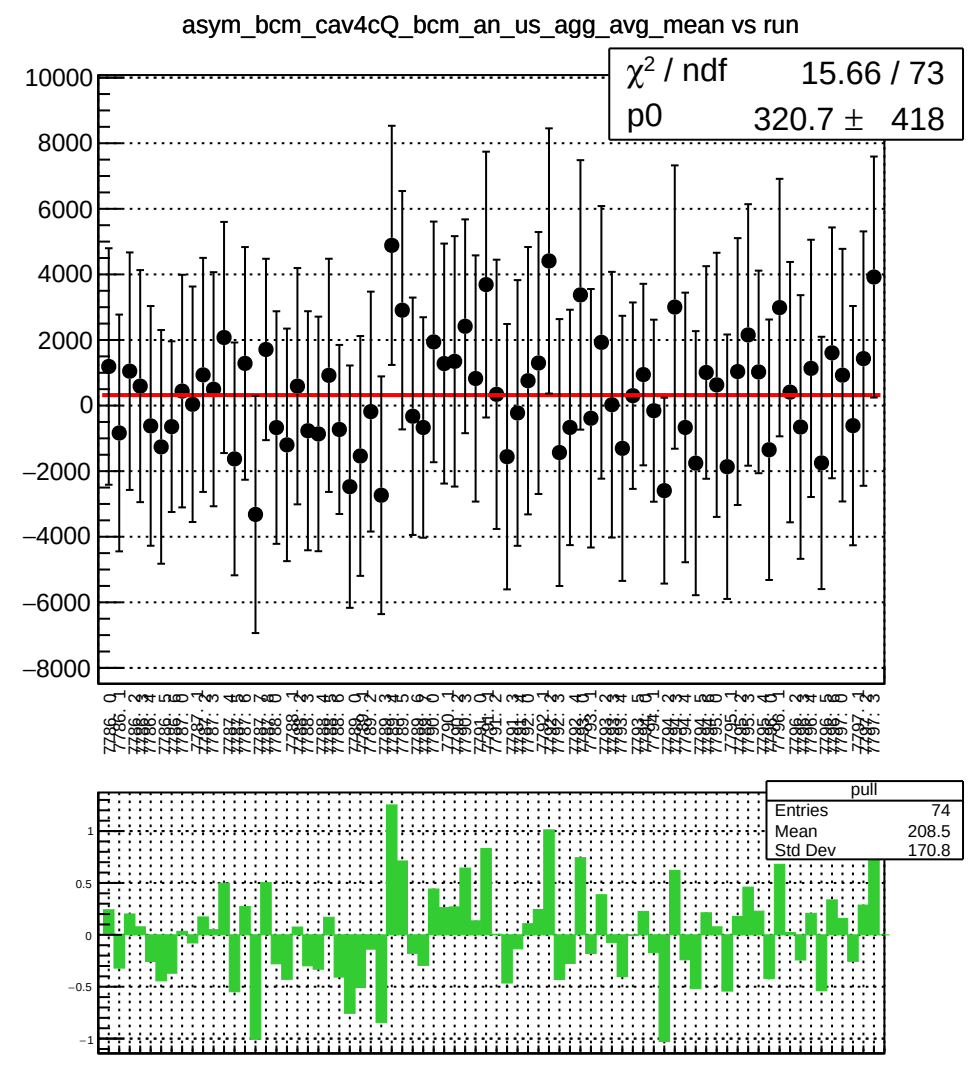

pull1D
Entries 74
Mean 0.006966
Std Dev 0.4596

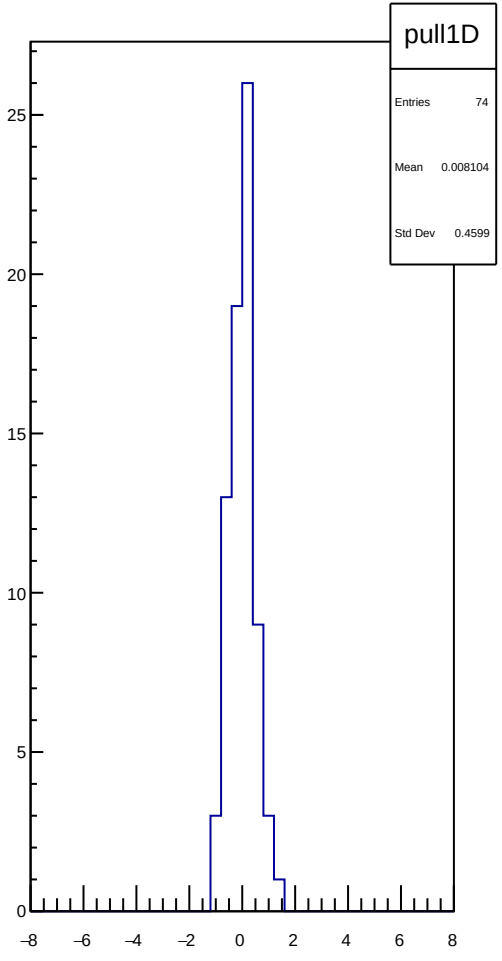

asym_bcm_dg_us_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.108e+04 / 73
p0 347 ± 0.2906
420
400
380
360
340
320
300
280
260
240

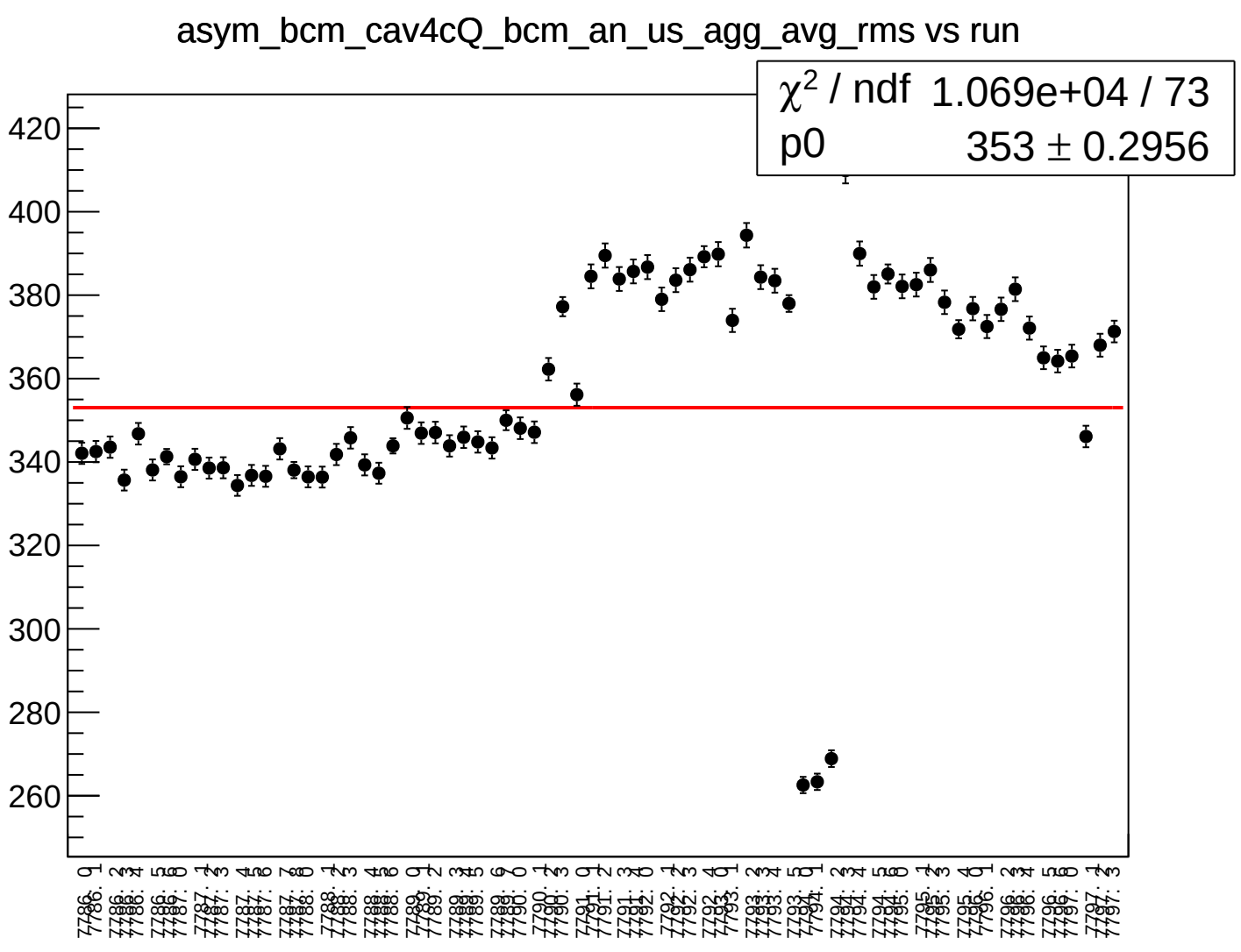

asym_bcm_dg_us_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 77.36 / 73
p0 24.27 ± 27.45
pull
Entries 74
Mean 42.46
Std Dev 41.19

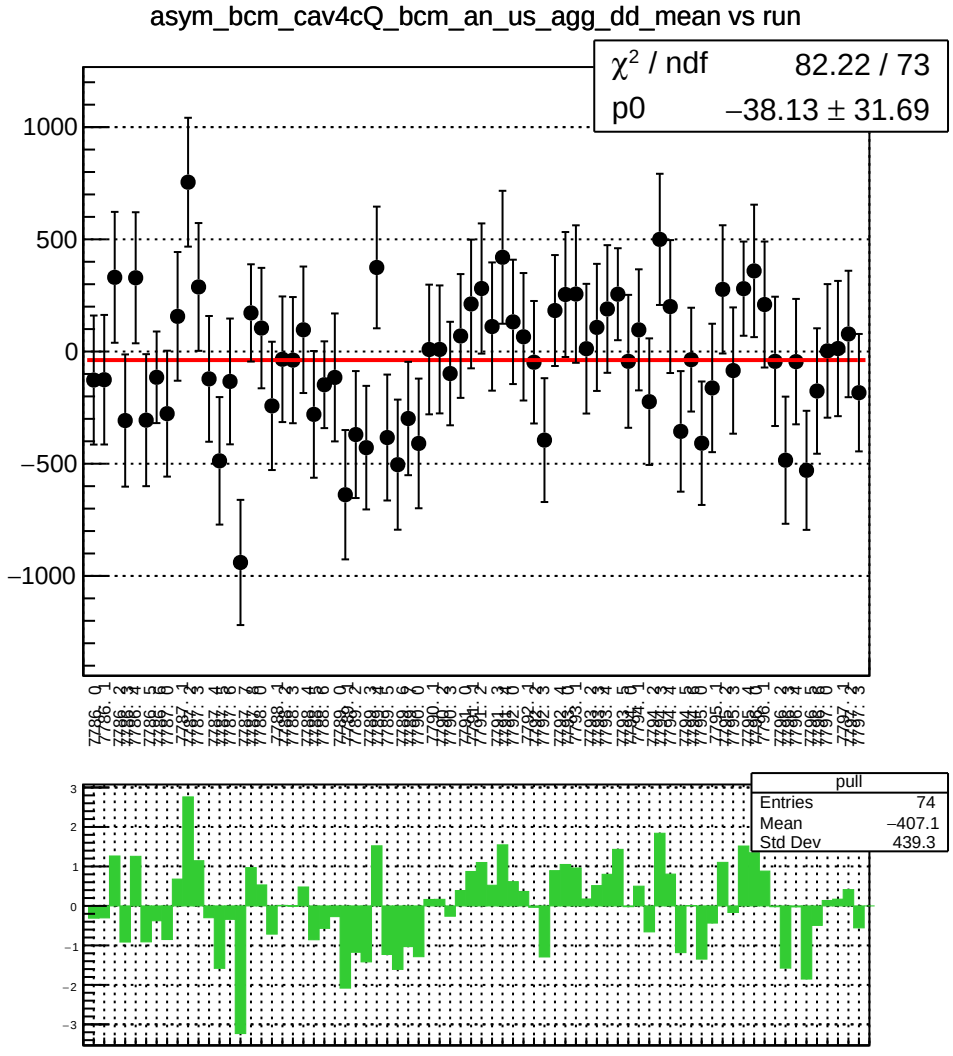

pull1D
Entries 74
Mean 0.01776
Std Dev 1.022

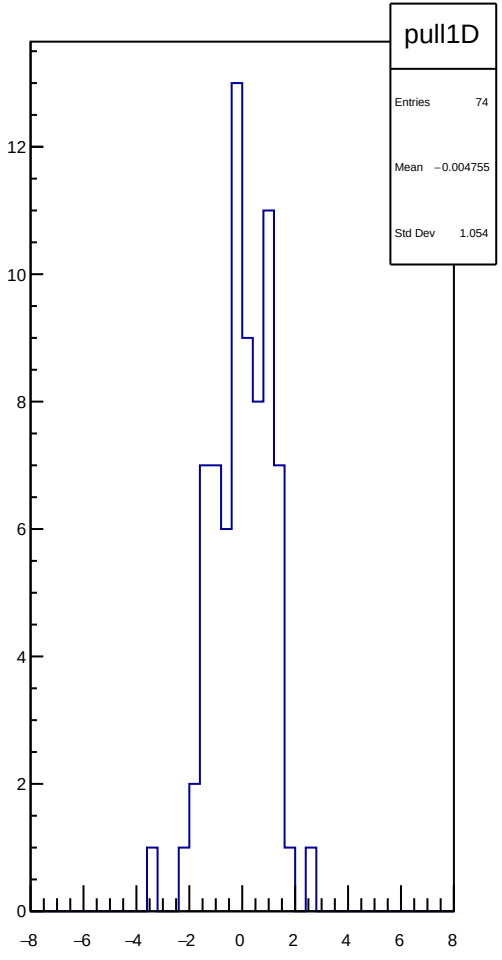

asym_bcm_dg_us_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 1515 / 73
p0 23.26 ± 0.01941
25.5
25
24.5
24
23.5
23
22.5
22
21.5
21

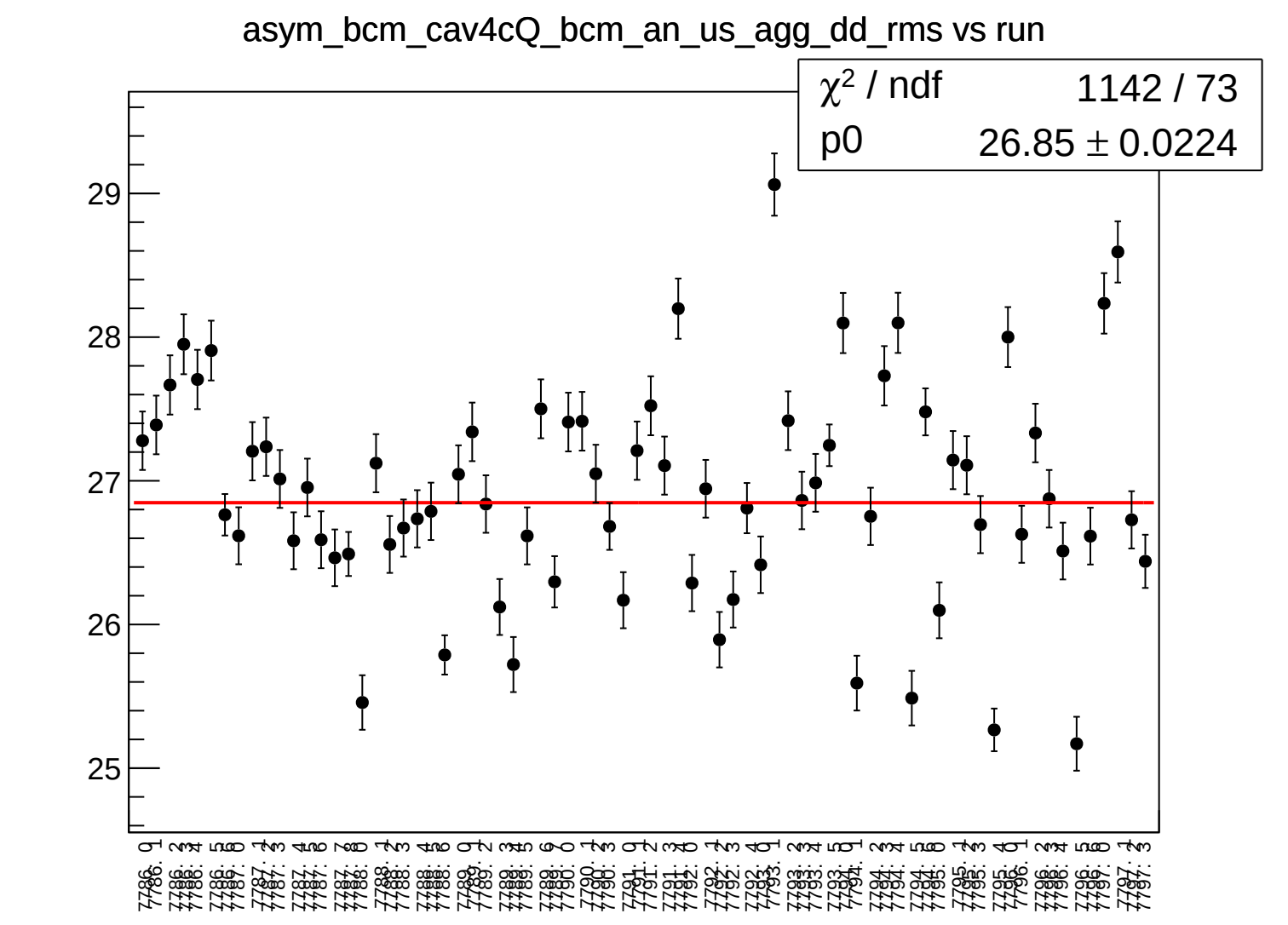

asym_bcm_cav4cQ_bcm_an_us_agg_avg_mean vs run
χ² / ndf 15.66 / 73
p0 320.7 ± 418
pull
Entries 74
Mean 208.5
Std Dev 170.8

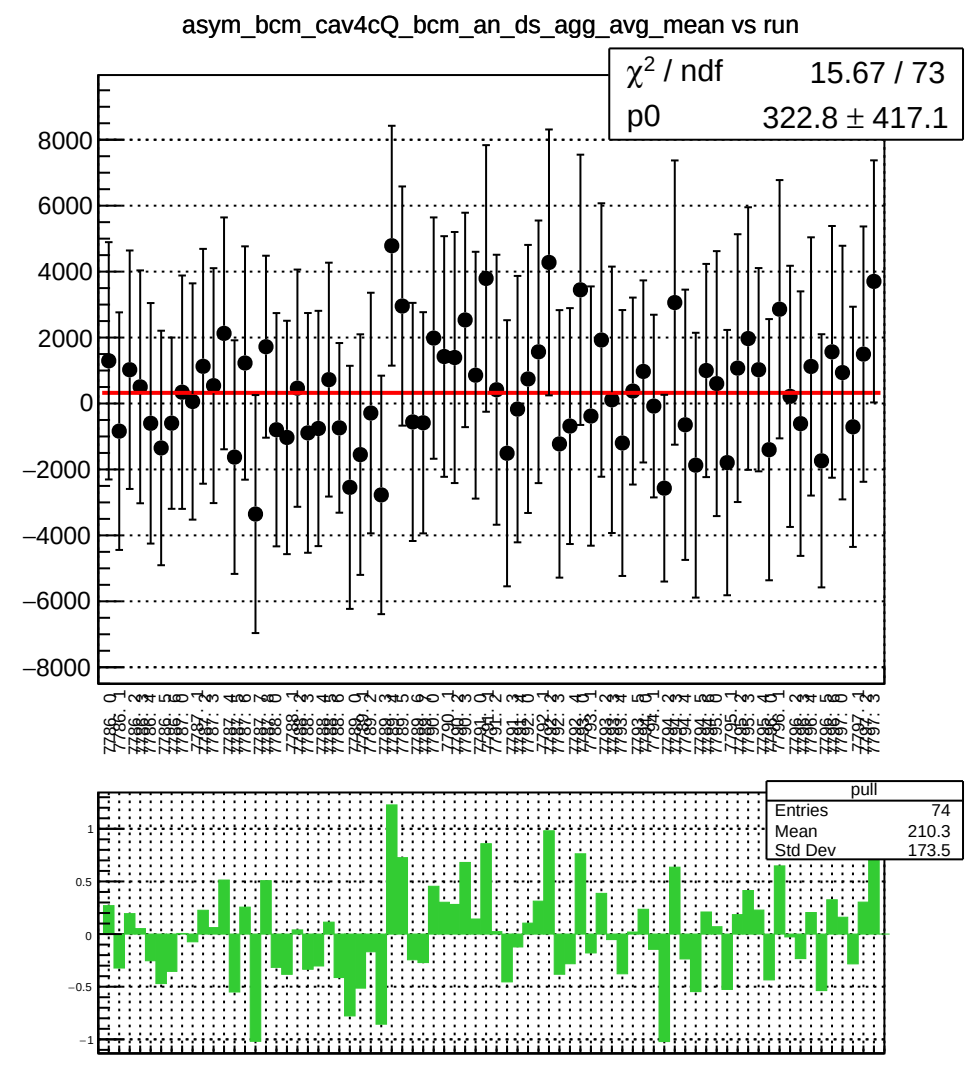

pull1D
Entries 74
Mean 0.008104
Std Dev 0.4599

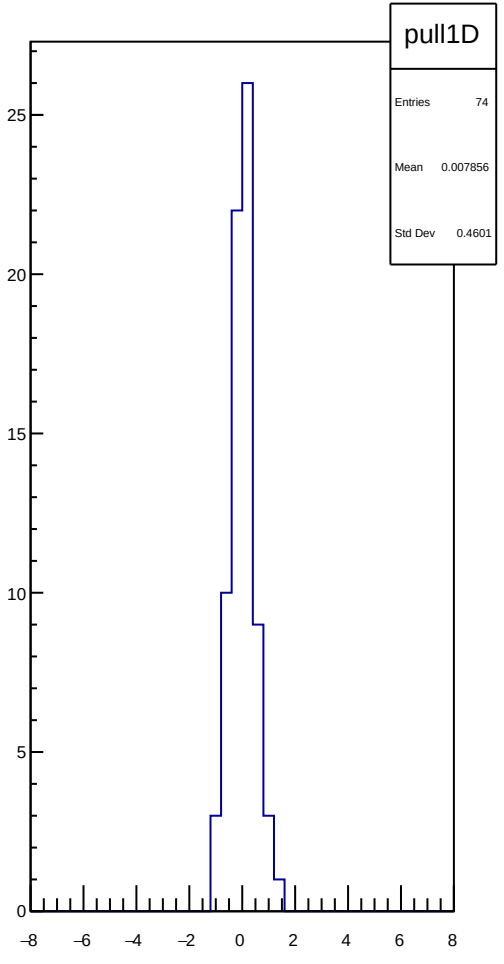

asym_bcm_cav4cQ_bcm_an_us_agg_avg_rms vs run
χ² / ndf 1.069e+04 / 73
p0 353 ± 0.2956
420
400
380
360
340
320
300
280
260

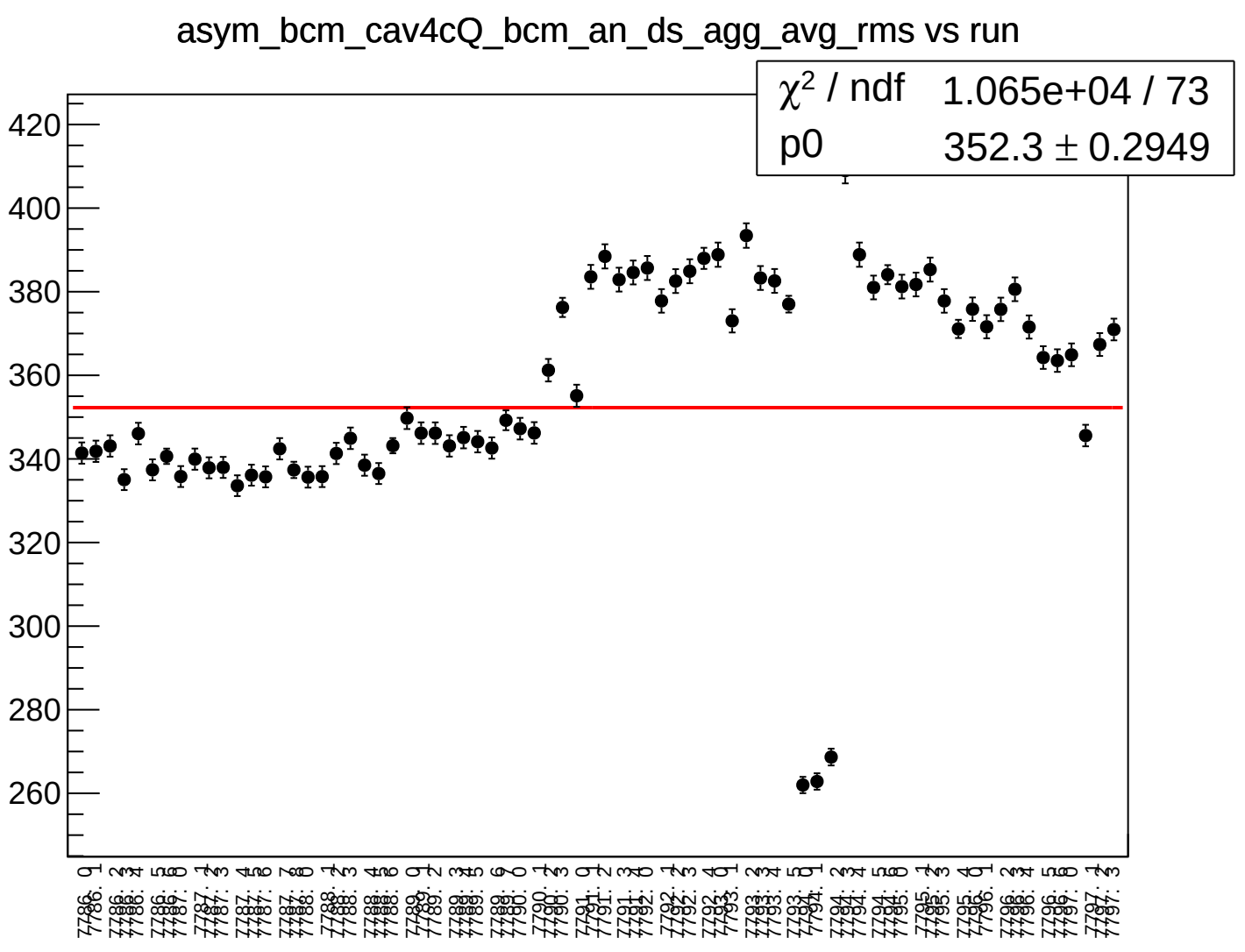

asym_bcm_cav4cQ_bcm_an_us_agg_dd_mean vs run
χ² / ndf 82.22 / 73
p0 −38.13 ± 31.69
1000
500
0
−500
−1000
pull
Entries 74
Mean −407.1
Std Dev 439.3
3
2
1
0
−1
−2
−3

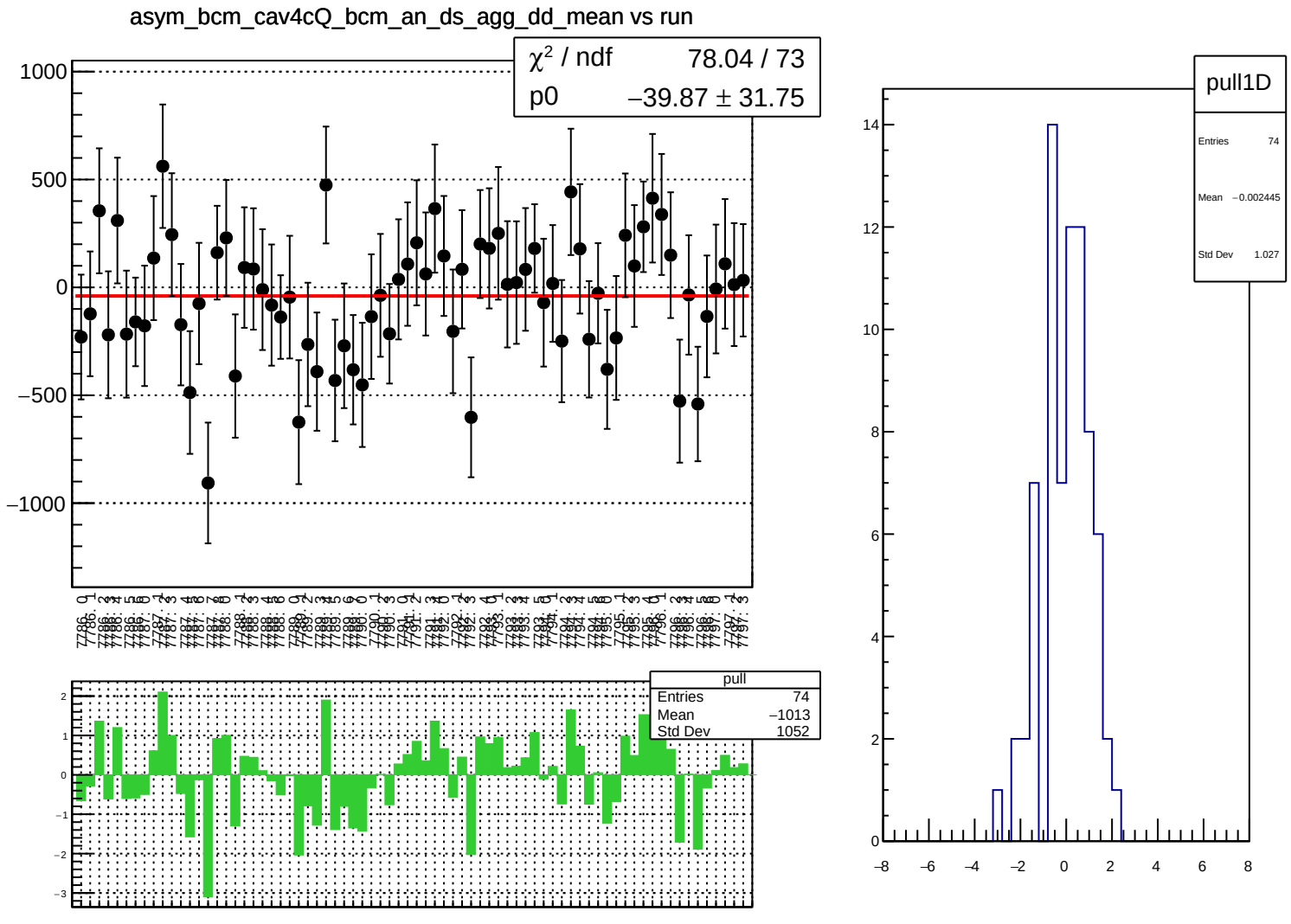

pull1D
Entries 74
Mean −0.004755
Std Dev 1.054
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

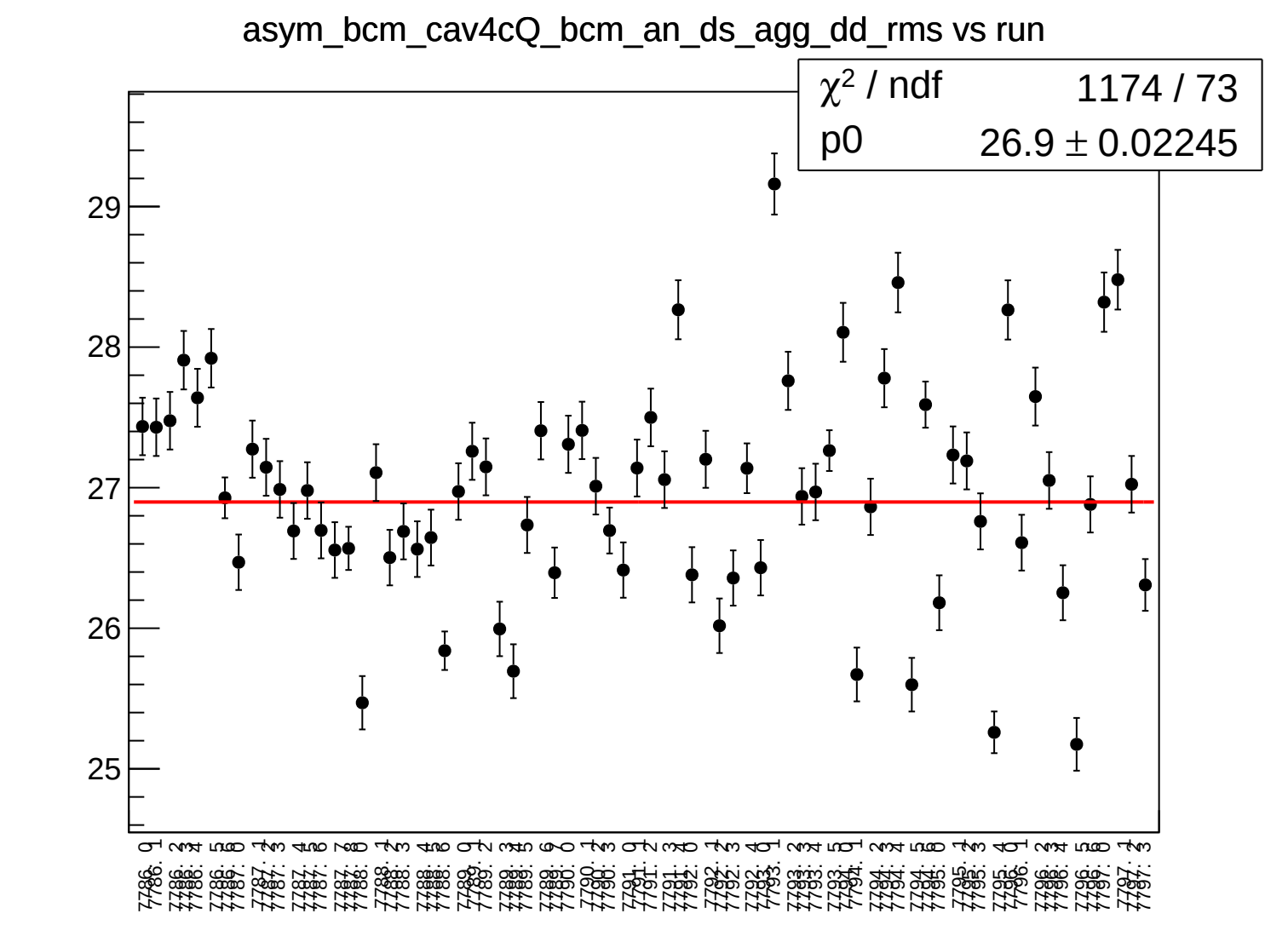

asym_bcm_cav4cQ_bcm_an_us_agg_dd_rms vs run
χ² / ndf 1142 / 73
p0 26.85 ± 0.0224
29
28
27
26
25

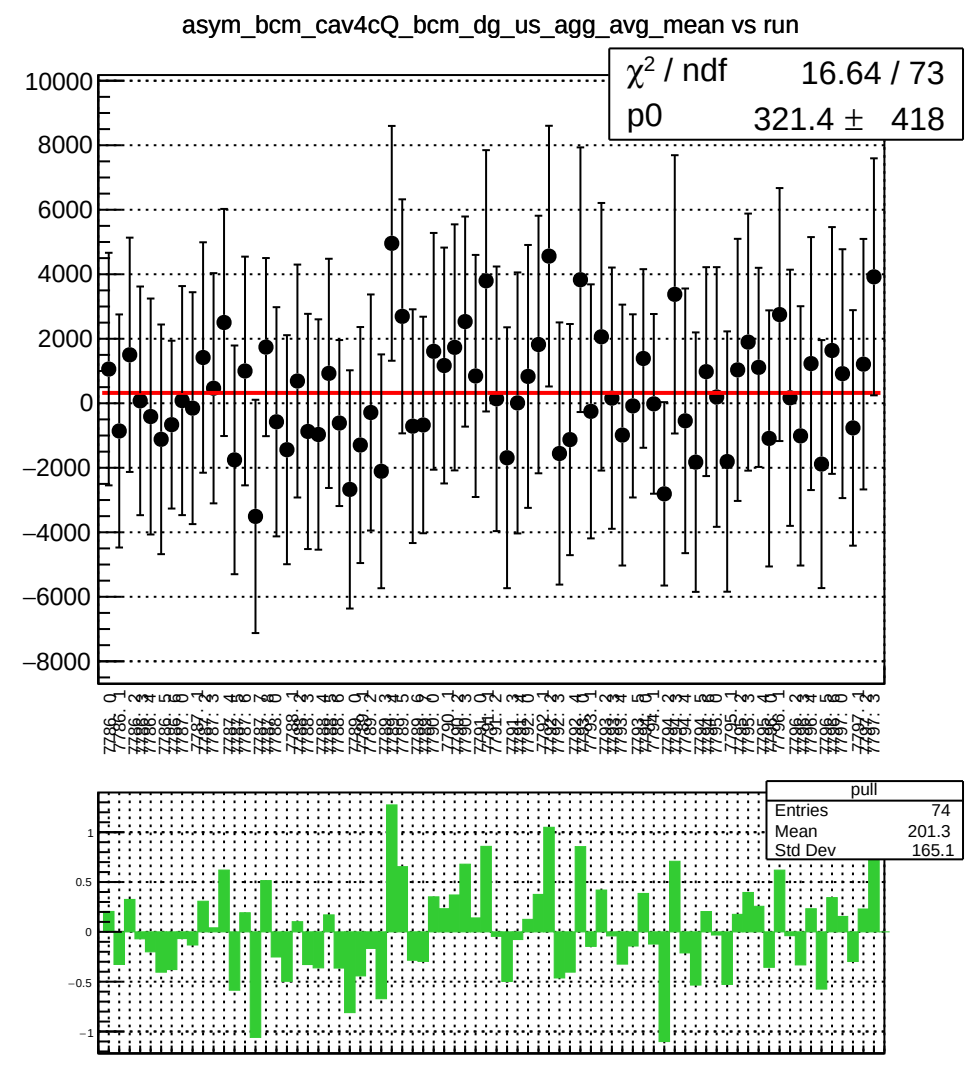

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_mean vs run
χ² / ndf 15.67 / 73
p0 322.8 ± 417.1
pull
Entries 74
Mean 210.3
Std Dev 173.5

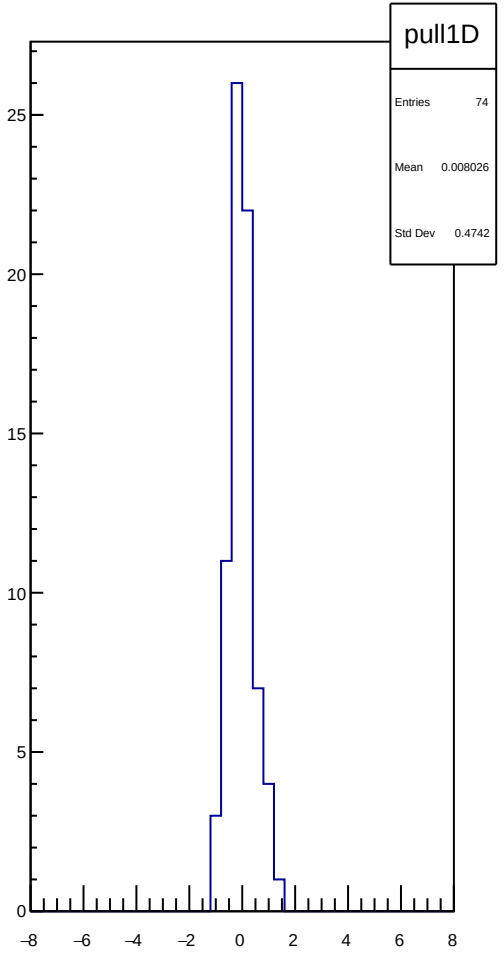

pull1D
Entries 74
Mean 0.007856
Std Dev 0.4601

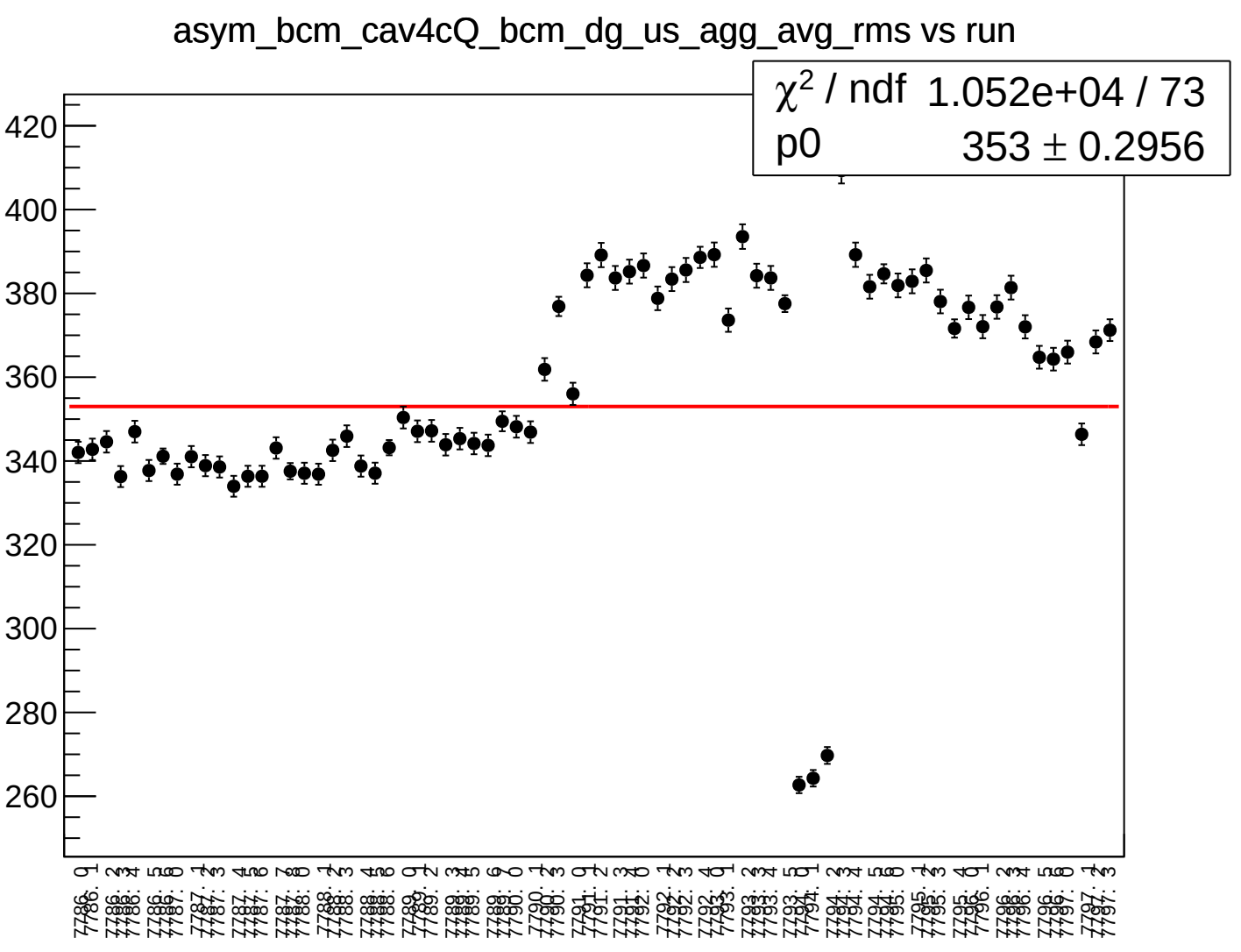

asym_bcm_cav4cQ_bcm_an_ds_agg_avg_rms vs run
χ² / ndf 1.065e+04 / 73
p0 352.3 ± 0.2949
420
400
380
360
340
320
300
280
260

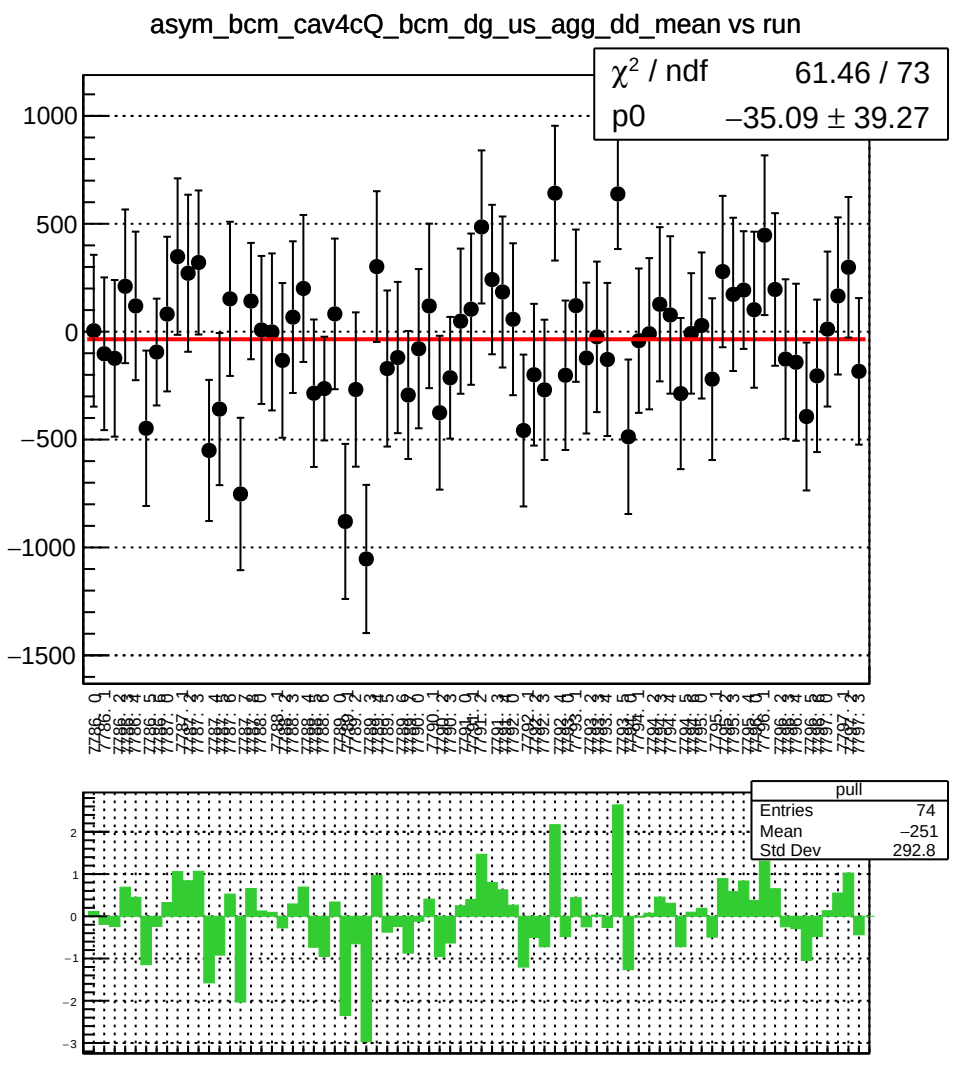

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_mean vs run
χ² / ndf 78.04 / 73
p0 −39.87 ± 31.75
pull
Entries 74
Mean −1013
Std Dev 1052
pull1D
Entries 74
Mean −0.002445
Std Dev 1.027

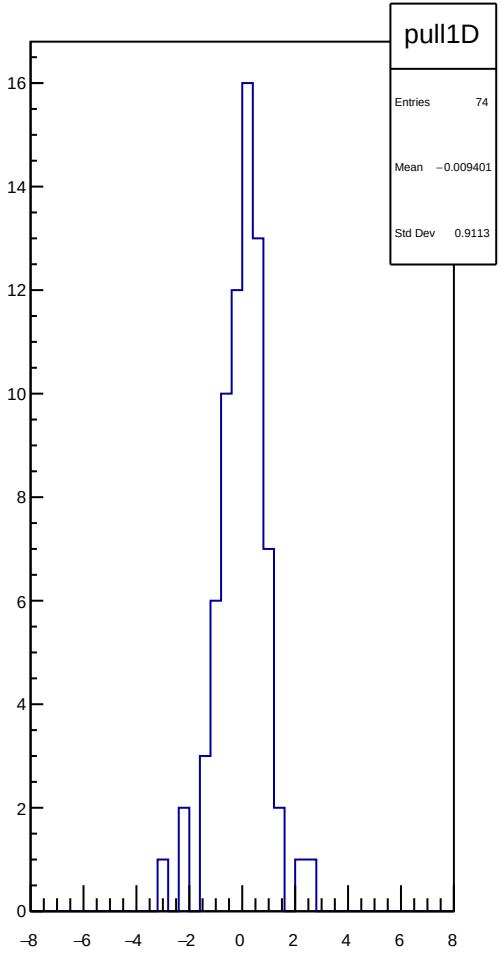

asym_bcm_cav4cQ_bcm_an_ds_agg_dd_rms vs run
χ² / ndf 1174 / 73
p0 26.9 ± 0.02245
29
28
27
26
25

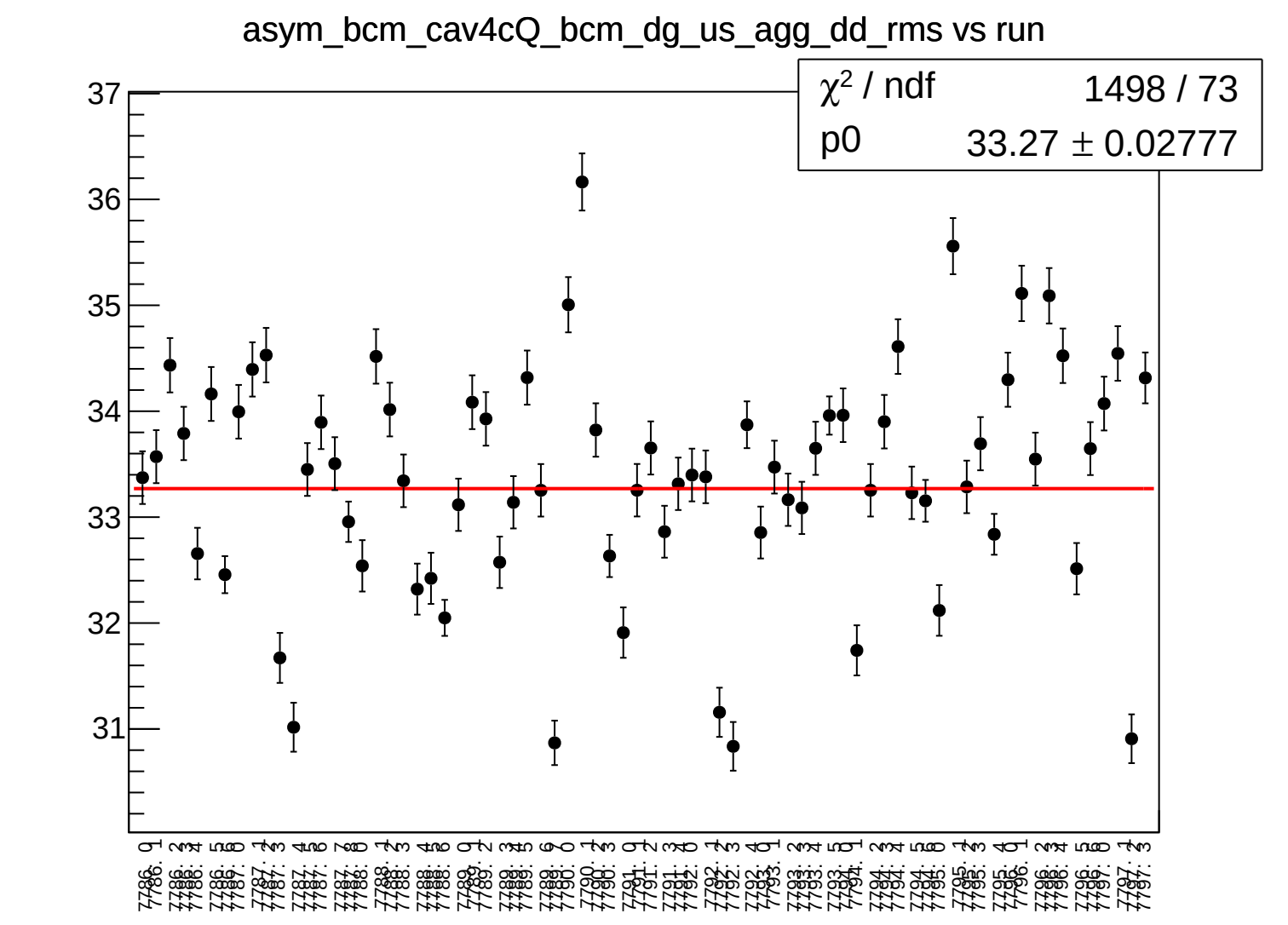

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_mean vs run
χ² / ndf 16.64 / 73
p0 321.4 ± 418
pull
Entries 74
Mean 201.3
Std Dev 165.1

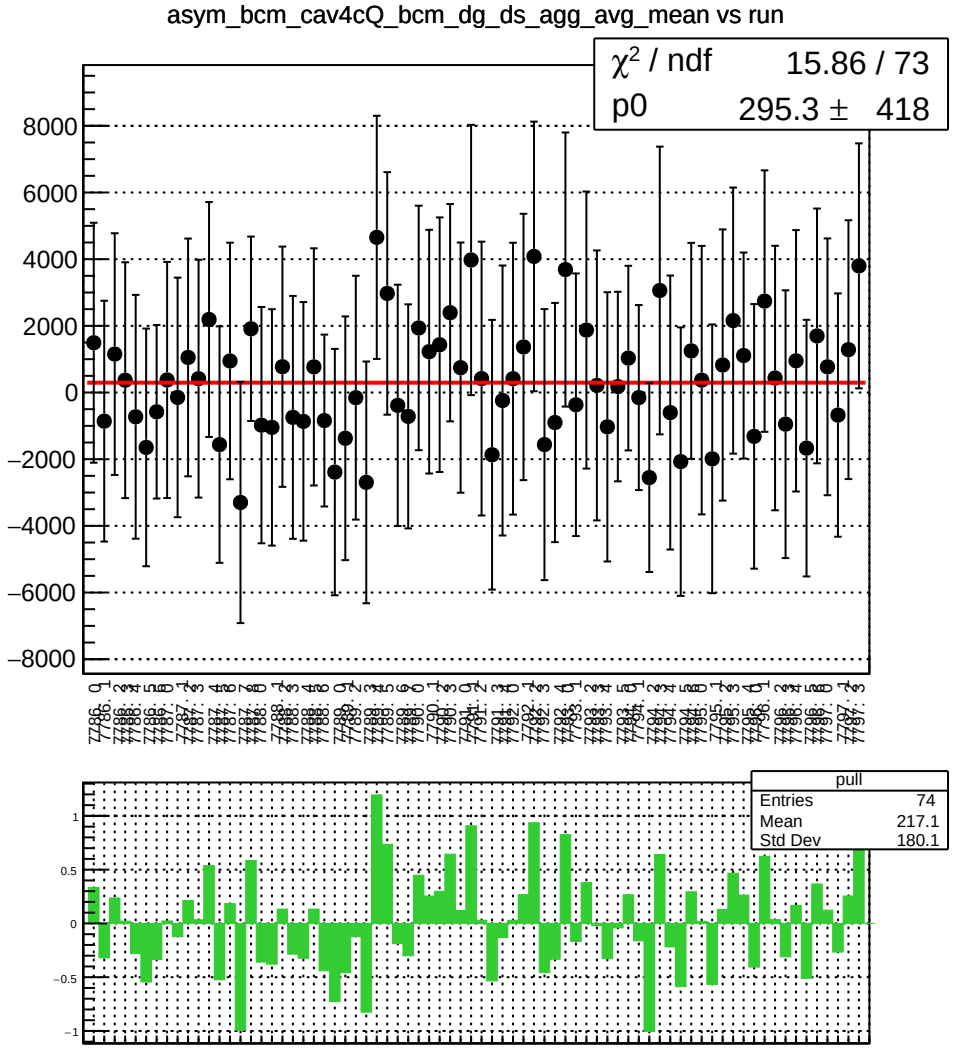

pull1D
Entries 74
Mean 0.008026
Std Dev 0.4742

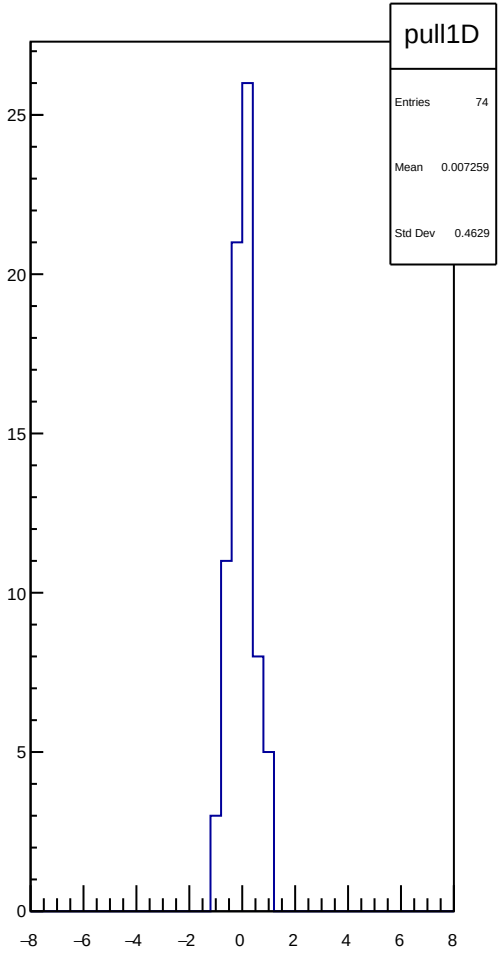

asym_bcm_cav4cQ_bcm_dg_us_agg_avg_rms vs run
χ² / ndf 1.052e+04 / 73
p0 353 ± 0.2956
420
400
380
360
340
320
300
280
260

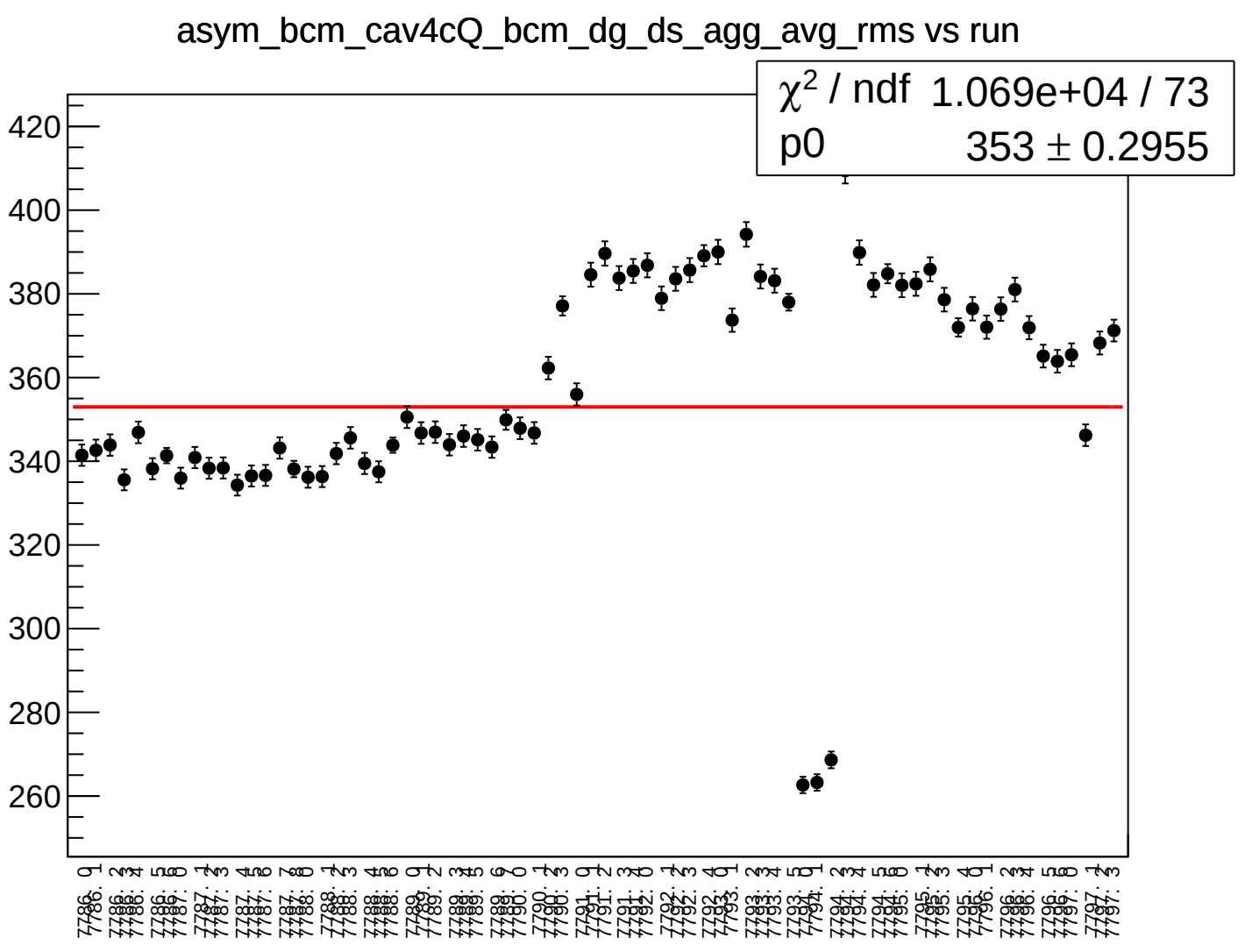

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_mean vs run
χ² / ndf 61.46 / 73
p0 −35.09 ± 39.27
pull
Entries 74
Mean −251
Std Dev 292.8

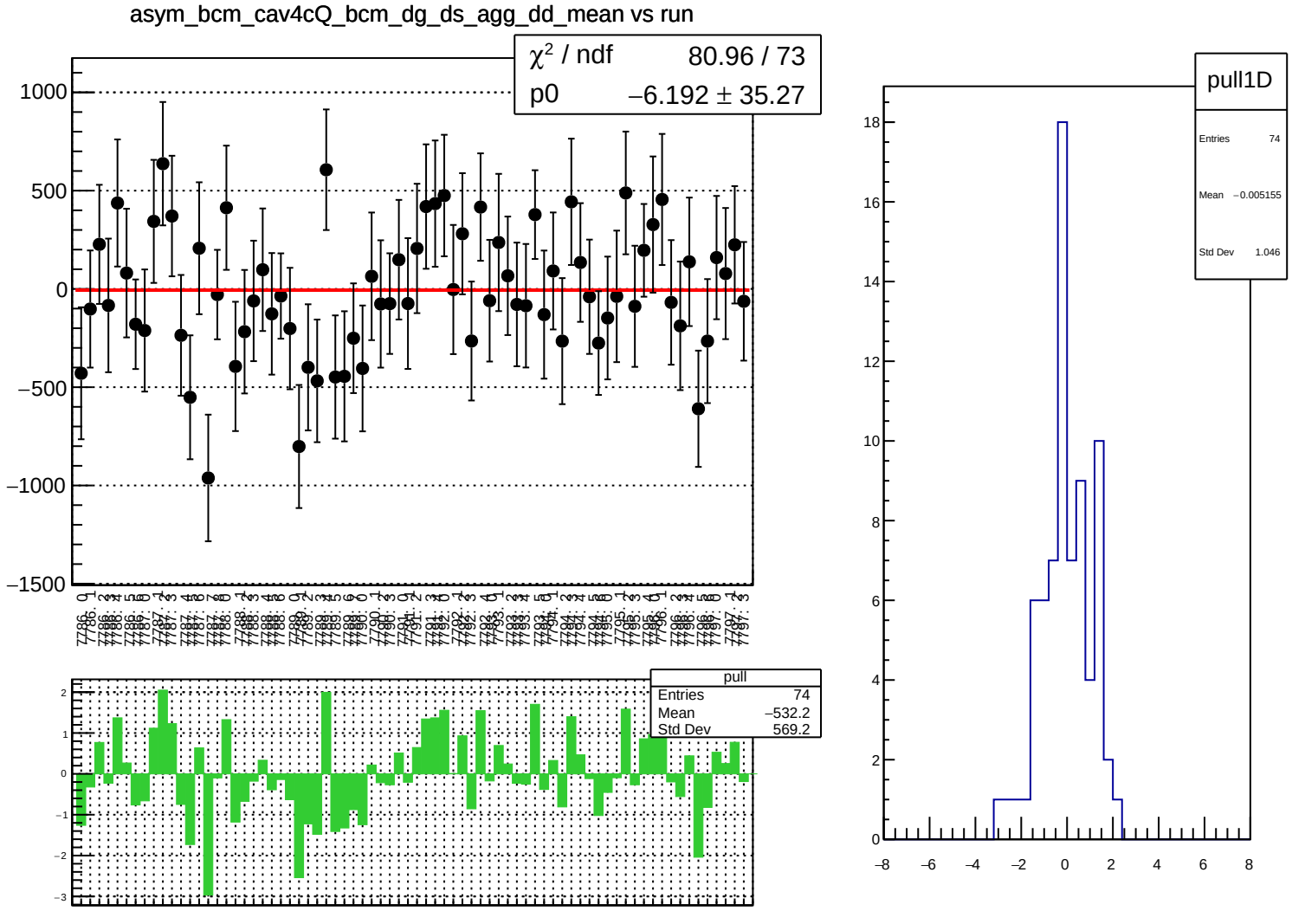

pull1D
Entries 74
Mean −0.009401
Std Dev 0.9113

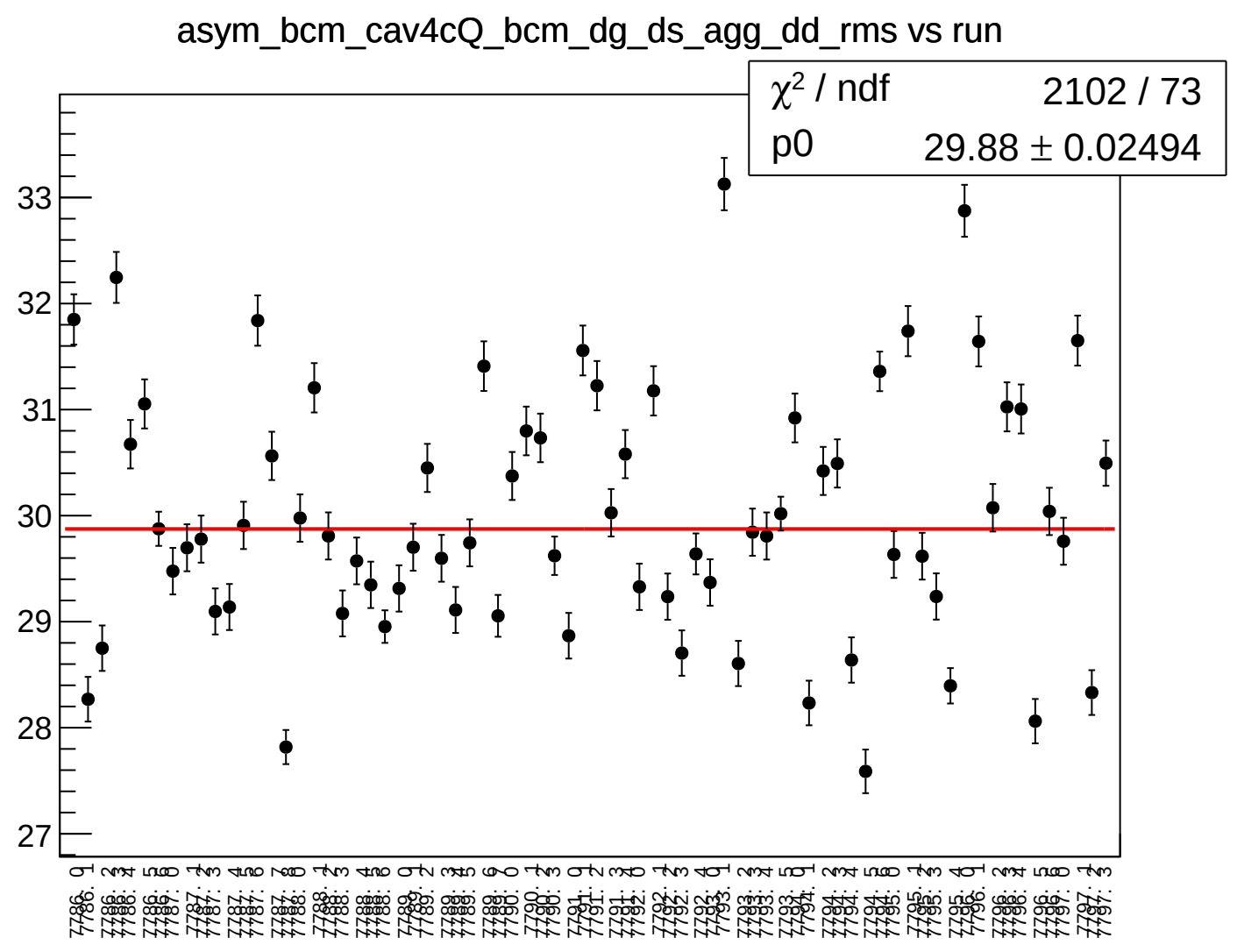

asym_bcm_cav4cQ_bcm_dg_us_agg_dd_rms vs run
χ² / ndf 1498 / 73
p0 33.27 ± 0.02777
37
36
35
34
33
32
31

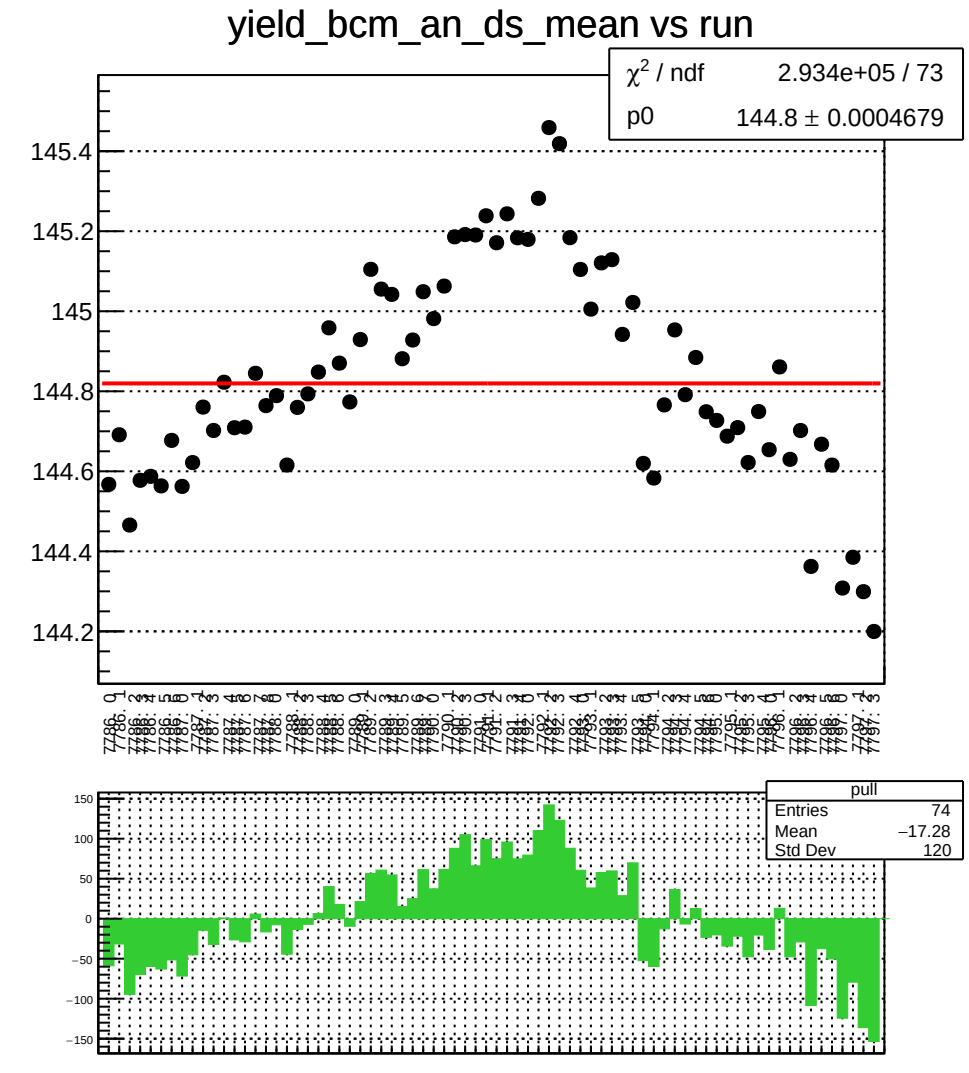

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_mean vs run
χ² / ndf 15.86 / 73
p0 295.3 ± 418
pull
Entries 74
Mean 217.1
Std Dev 180.1

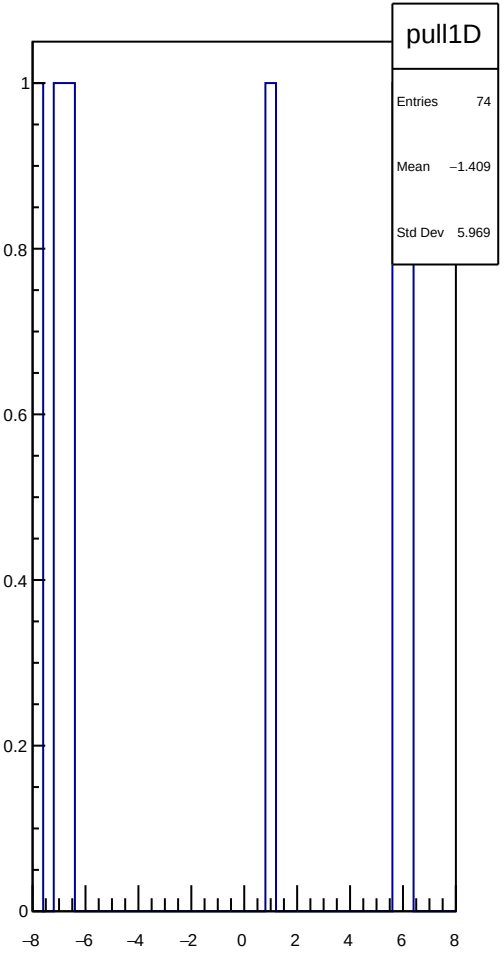

pull1D
Entries 74
Mean 0.007259
Std Dev 0.4629

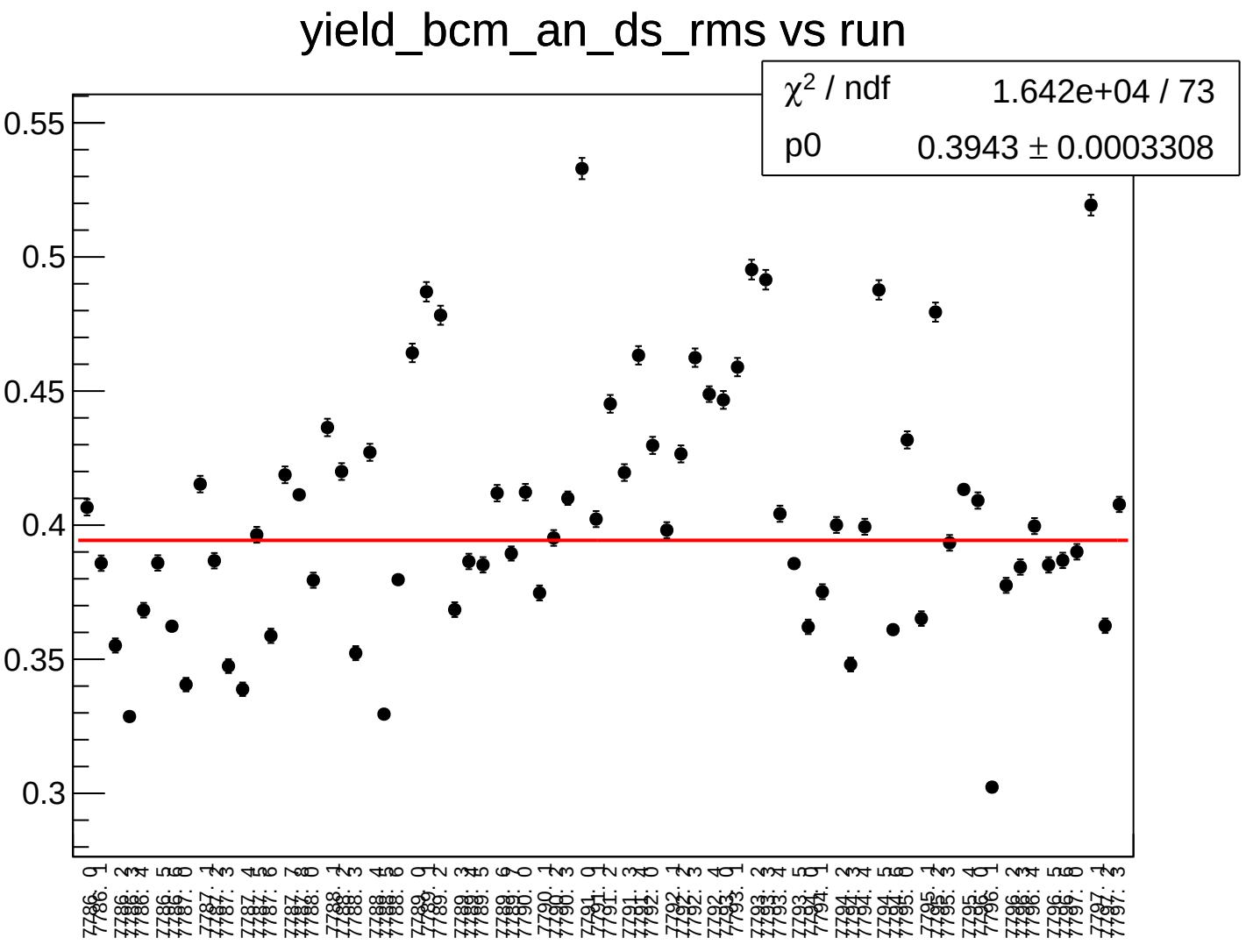

asym_bcm_cav4cQ_bcm_dg_ds_agg_avg_rms vs run
χ² / ndf 1.069e+04 / 73
p0 353 ± 0.2955
420
400
380
360
340
320
300
280
260

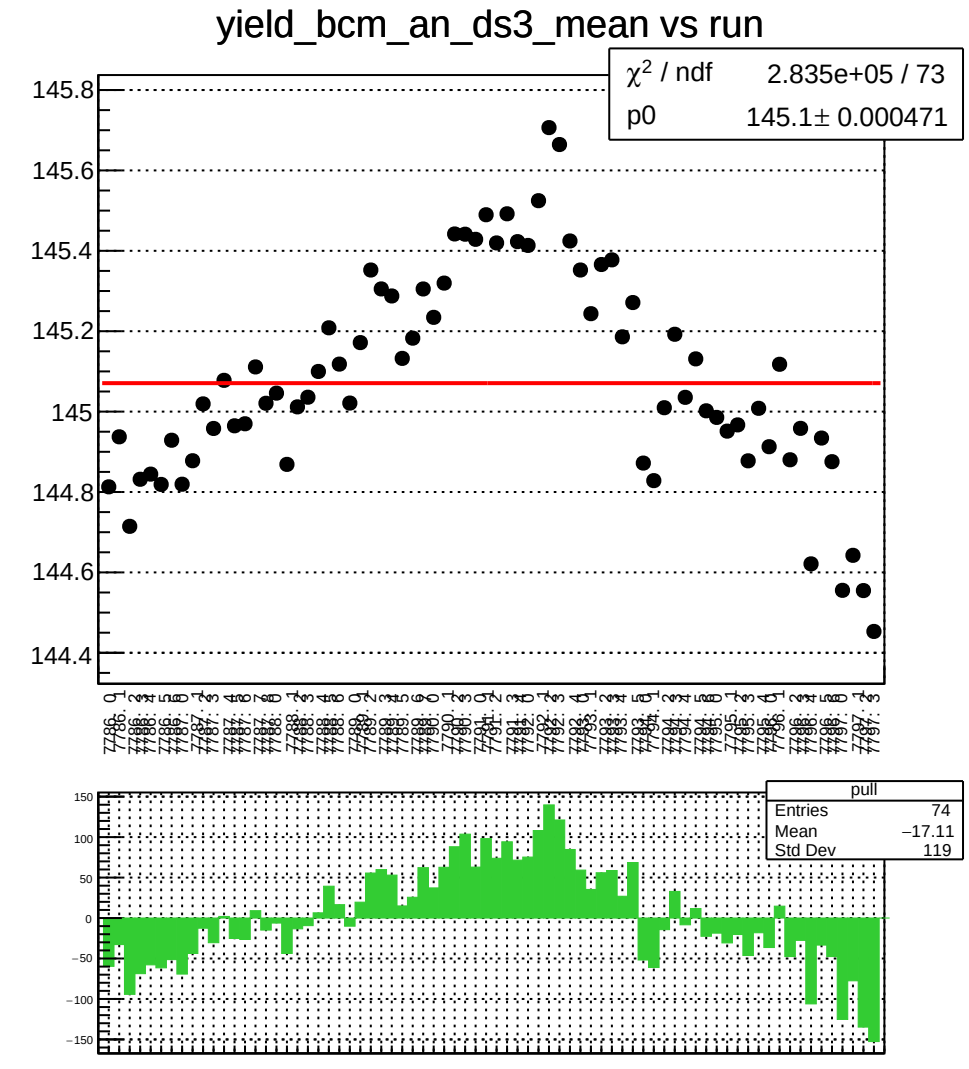

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_mean vs run
χ² / ndf 80.96 / 73
p0 −6.192 ± 35.27
1000
500
0
−500
−1000
−1500
pull
Entries 74
Mean −532.2
Std Dev 569.2
2
1
0
−1
−2
−3
pull1D
Entries 74
Mean −0.005155
Std Dev 1.046
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

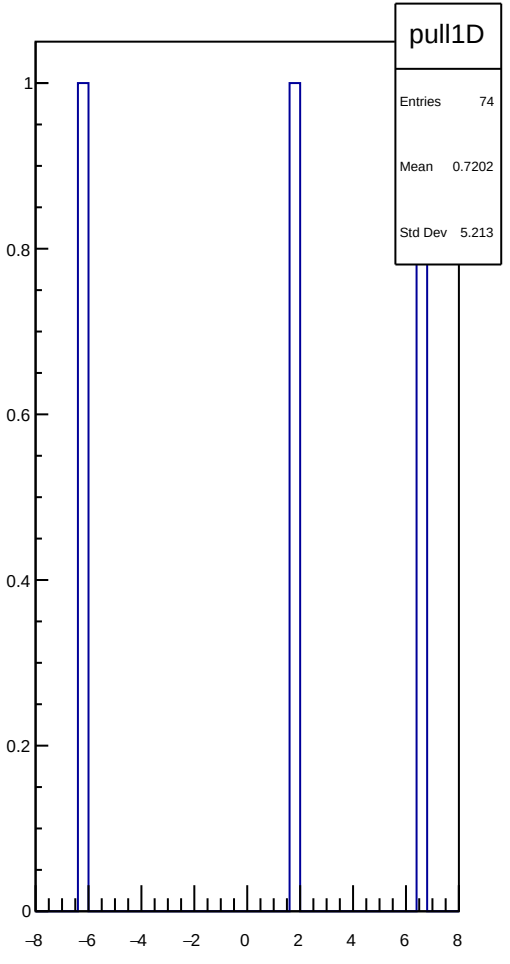

asym_bcm_cav4cQ_bcm_dg_ds_agg_dd_rms vs run
χ² / ndf 2102 / 73
p0 29.88 ± 0.02494
33
32
31
30
29
28
27

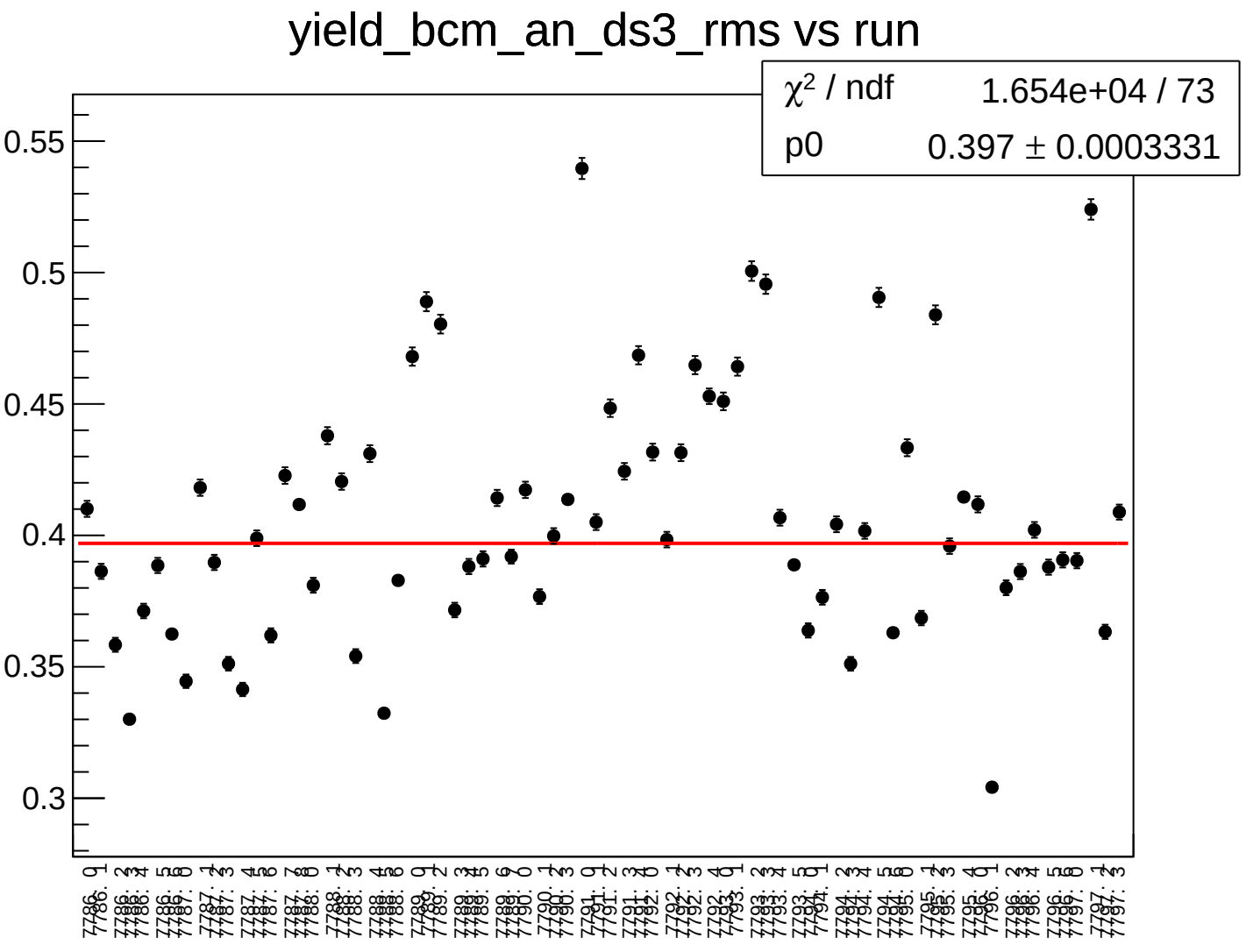

yield_bcm_an_ds_mean vs run
χ² / ndf 2.934e+05 / 73
p0 144.8 ± 0.0004679
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 74
Mean −17.28
Std Dev 120
150
100
50
0
−50
−100
−150

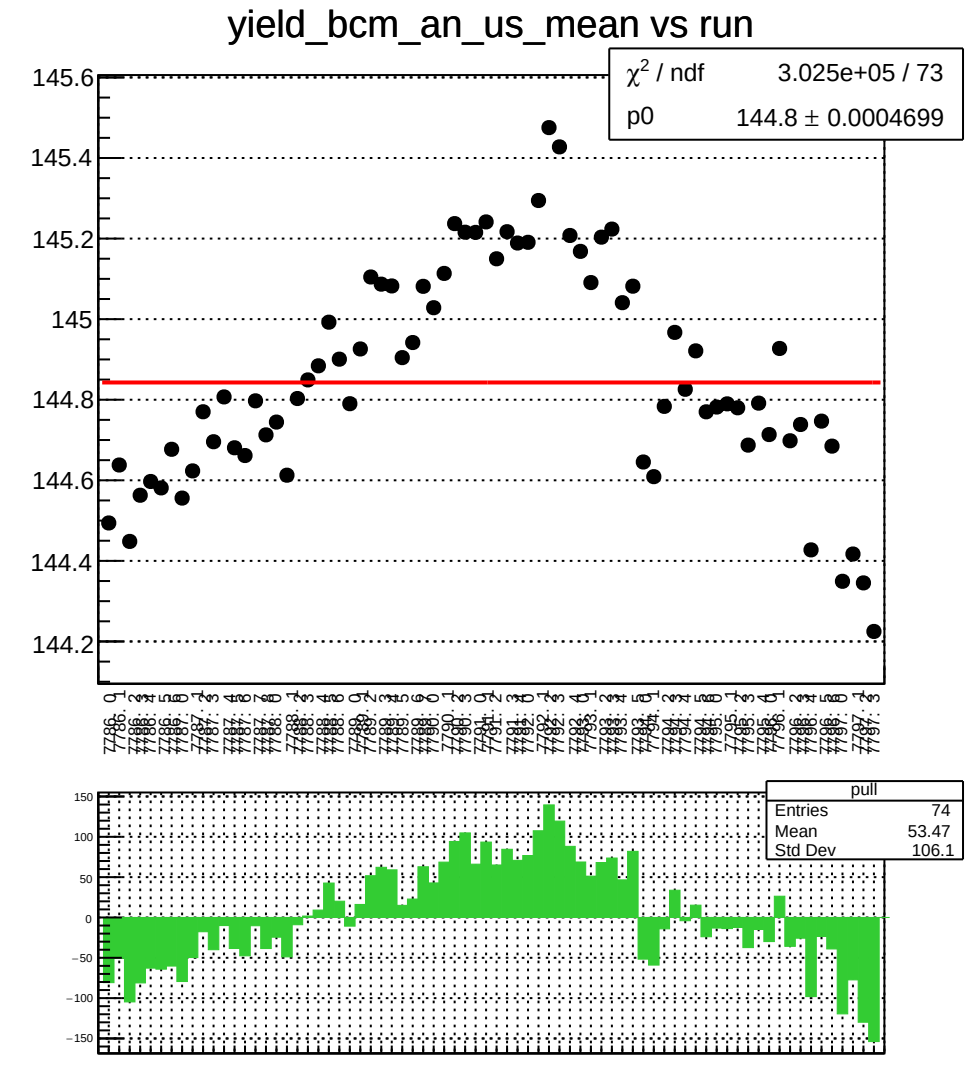

pull1D
Entries 74
Mean −1.409
Std Dev 5.969
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

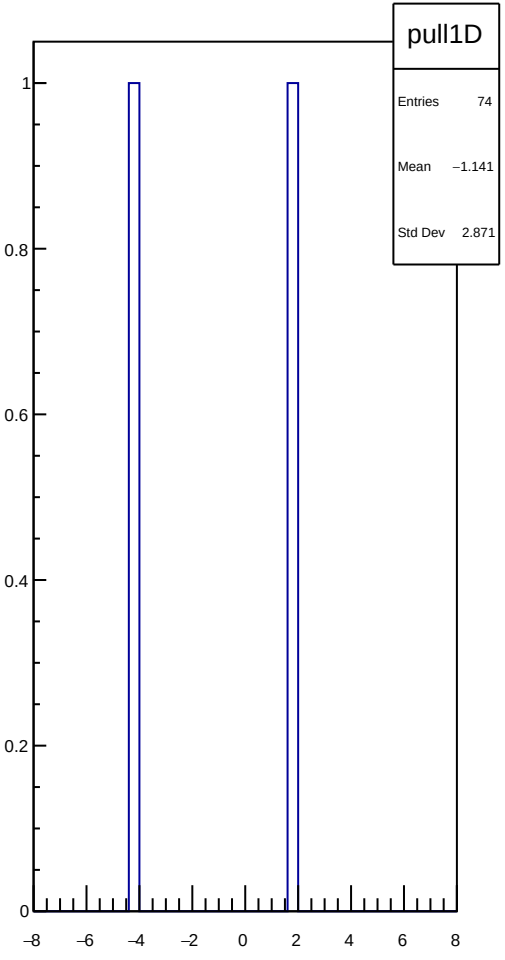

yield_bcm_an_ds_rms vs run
χ² / ndf 1.642e+04 / 73
p0 0.3943 ± 0.0003308
0.55
0.5
0.45
0.4
0.35
0.3

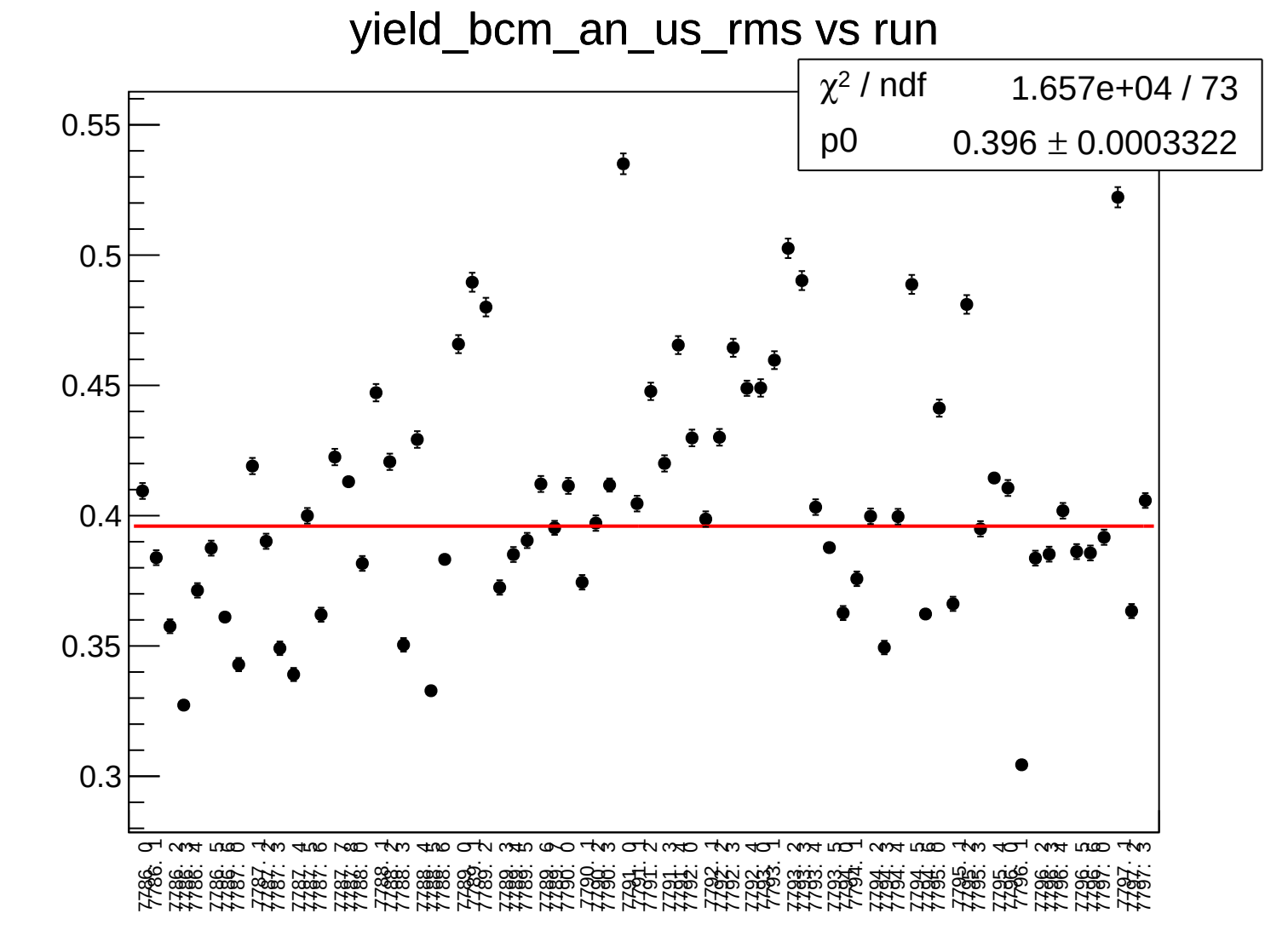

yield_bcm_an_ds3_mean vs run
χ² / ndf 2.835e+05 / 73
p0 145.1± 0.000471
145.8
145.6
145.4
145.2
145
144.8
144.6
144.4
pull
Entries 74
Mean −17.11
Std Dev 119
150
100
50
0
−50
−100
−150

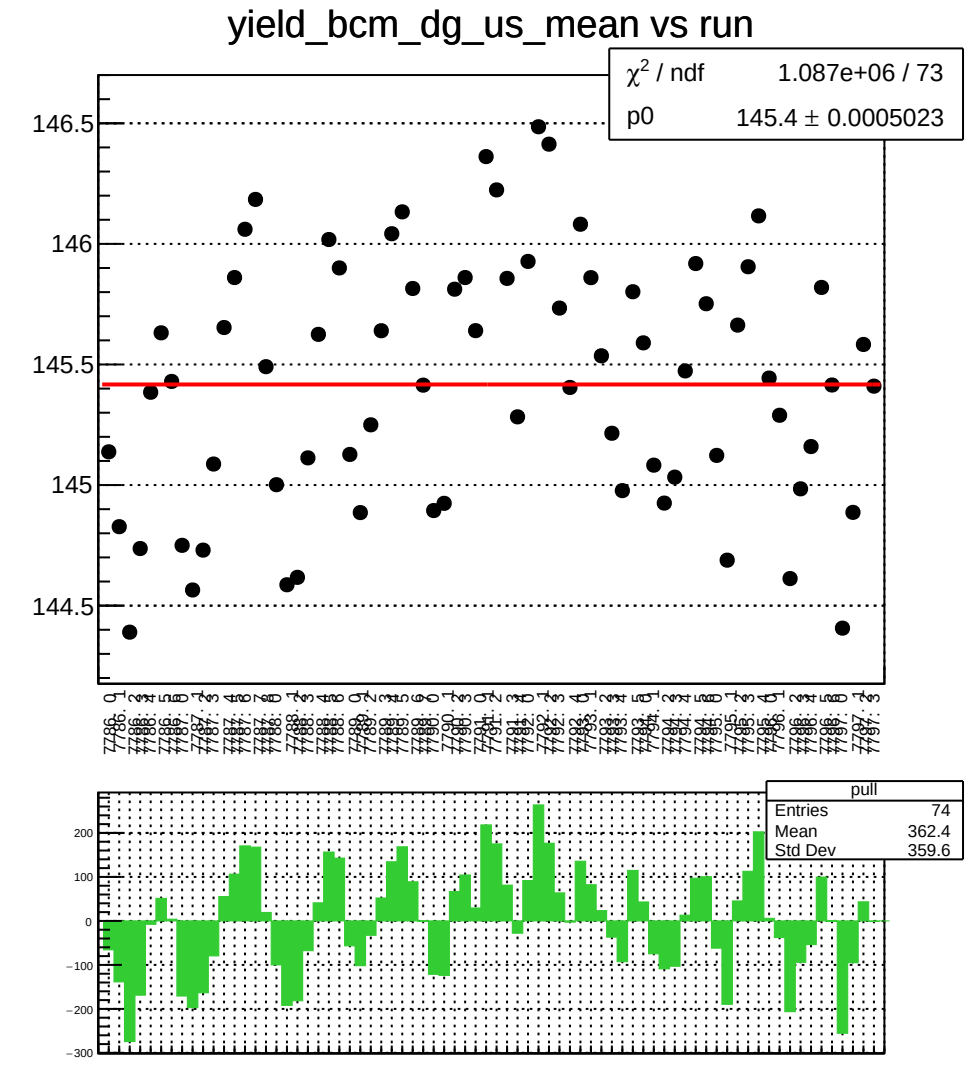

pull1D
Entries 74
Mean 0.7202
Std Dev 5.213
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

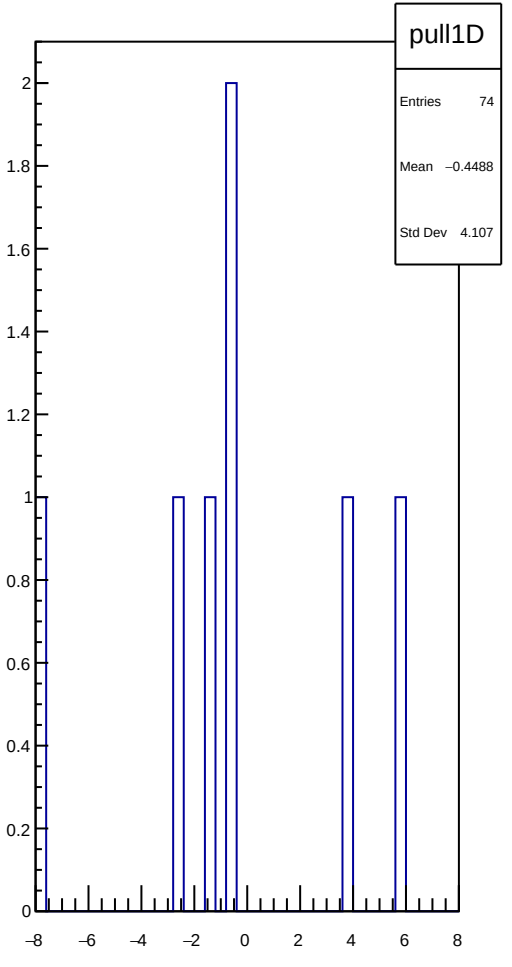

yield_bcm_an_ds3_rms vs run
χ² / ndf 1.654e+04 / 73
p0 0.397 ± 0.0003331
0.55
0.5
0.45
0.4
0.35
0.3

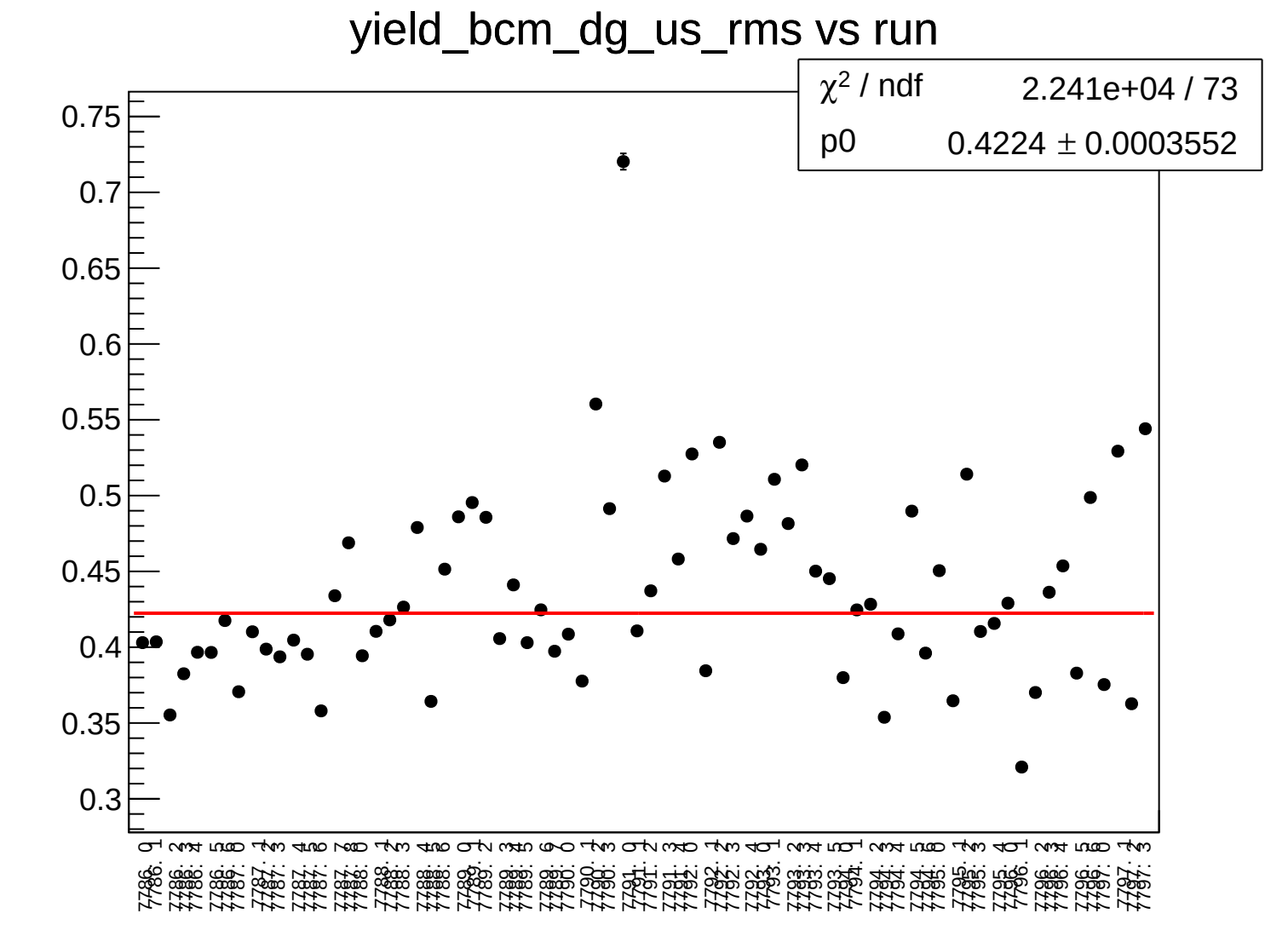

yield_bcm_an_us_mean vs run
χ² / ndf 3.025e+05 / 73
p0 144.8 ± 0.0004699
145.6
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 74
Mean 53.47
Std Dev 106.1
150
100
50
0
−50
−100
−150

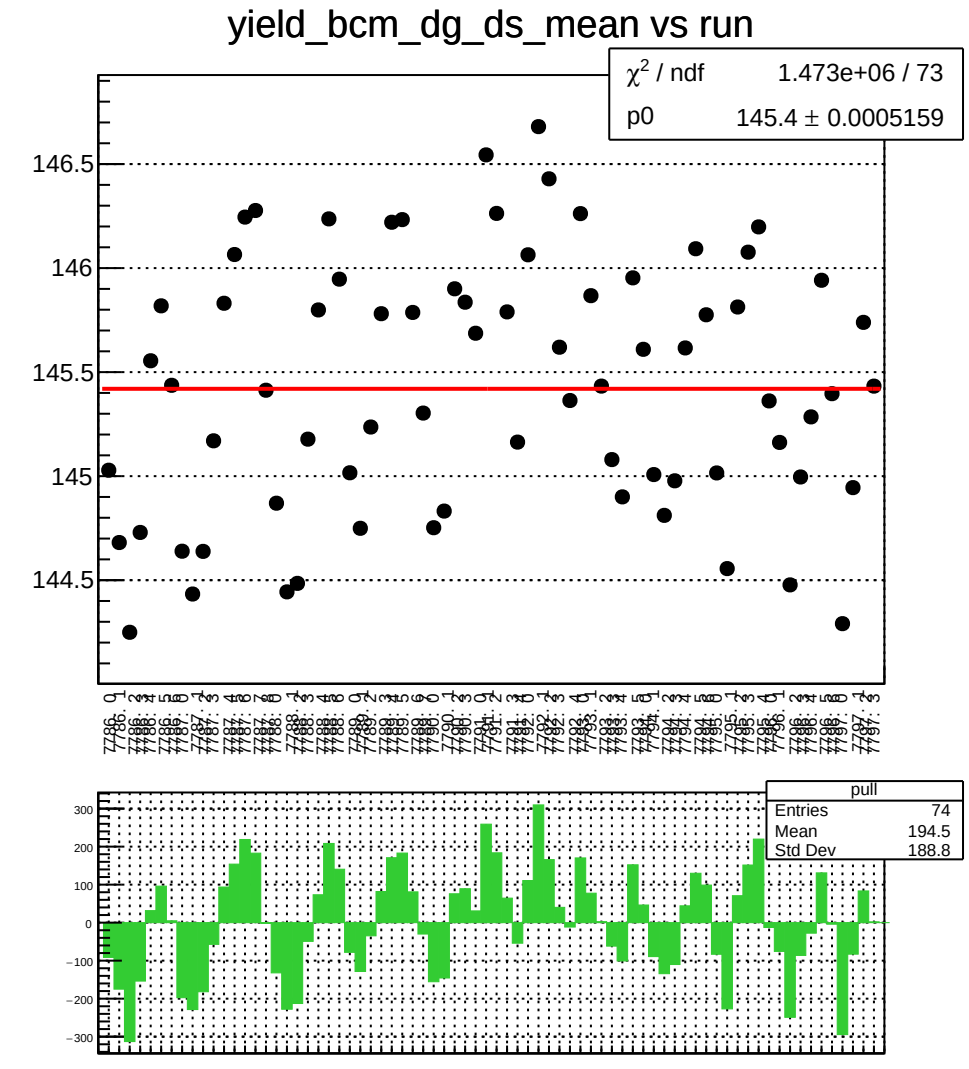

pull1D
Entries 74
Mean −1.141
Std Dev 2.871
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

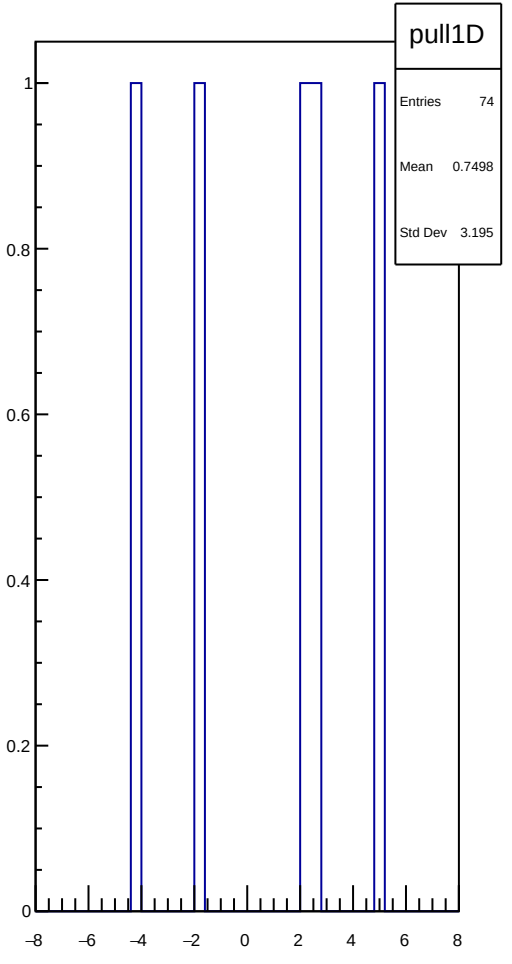

yield_bcm_an_us_rms vs run
χ² / ndf 1.657e+04 / 73
p0 0.396 ± 0.0003322
0.55
0.5
0.45
0.4
0.35
0.3

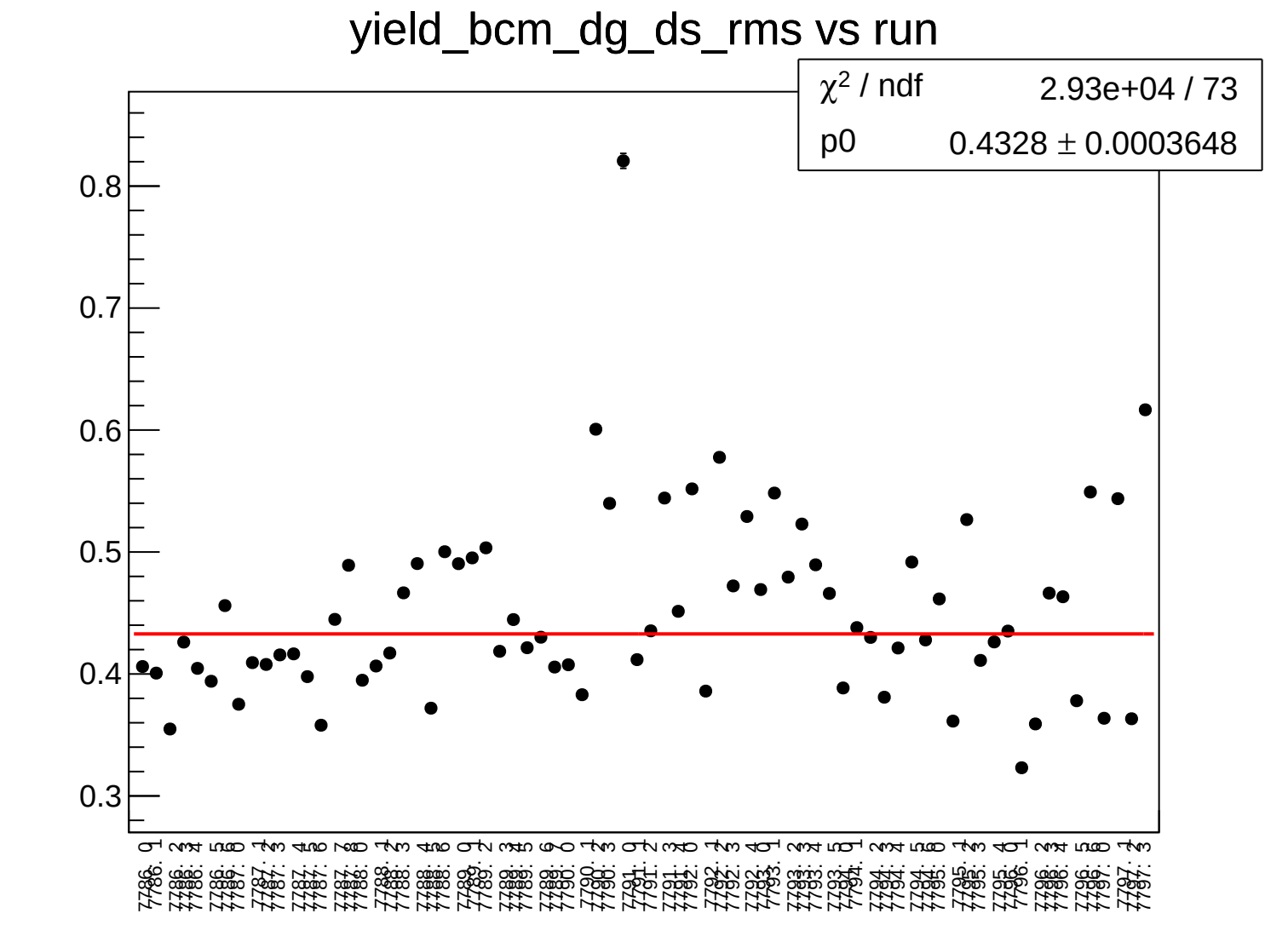

yield_bcm_dg_us_mean vs run
χ² / ndf 1.087e+06 / 73
p0 145.4 ± 0.0005023
146.5
146
145.5
145
144.5
pull
Entries 74
Mean 362.4
Std Dev 359.6
200
100
0
−100
−200
−300

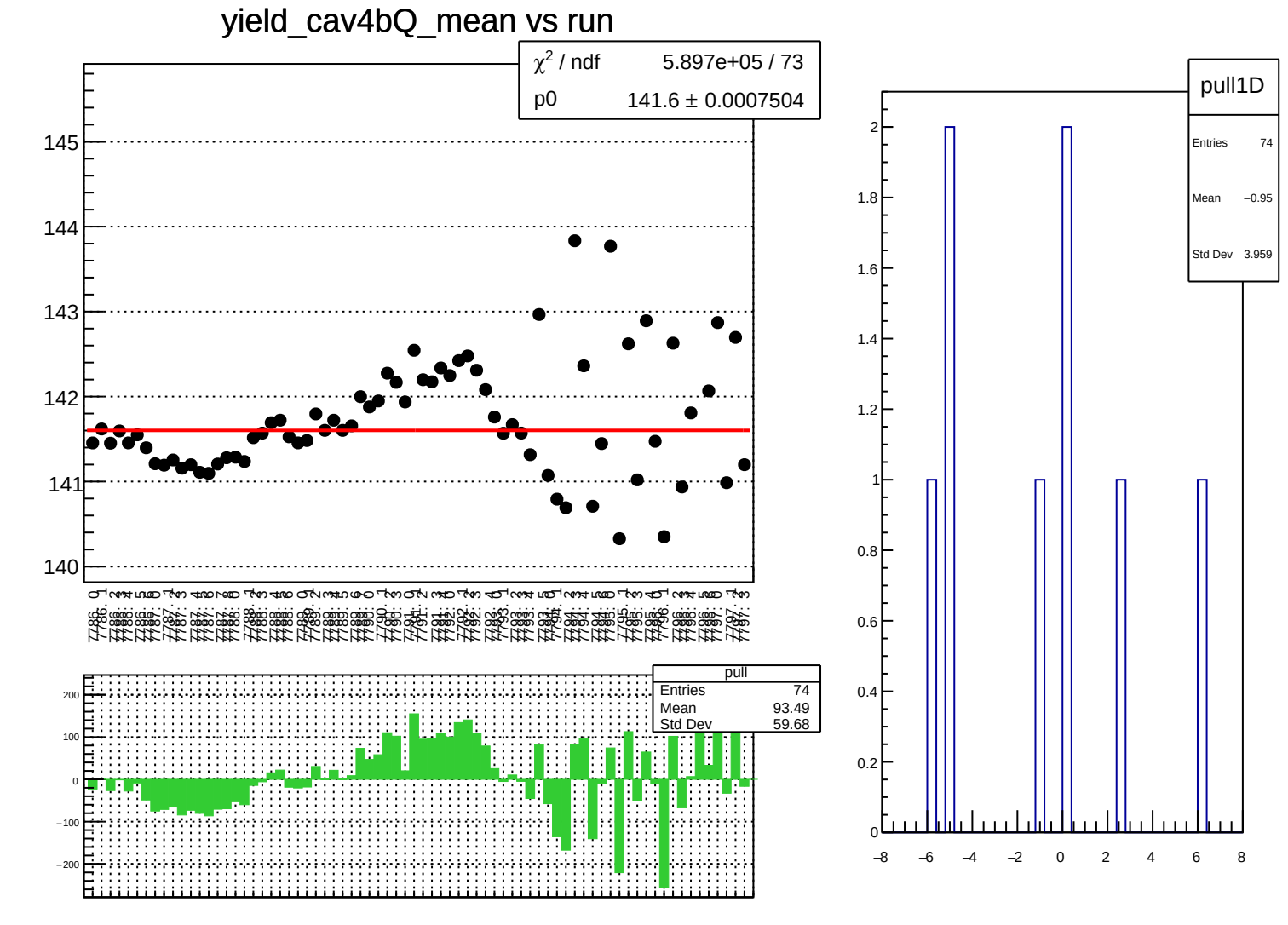

pull1D
Entries 74
Mean −0.4488
Std Dev 4.107
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

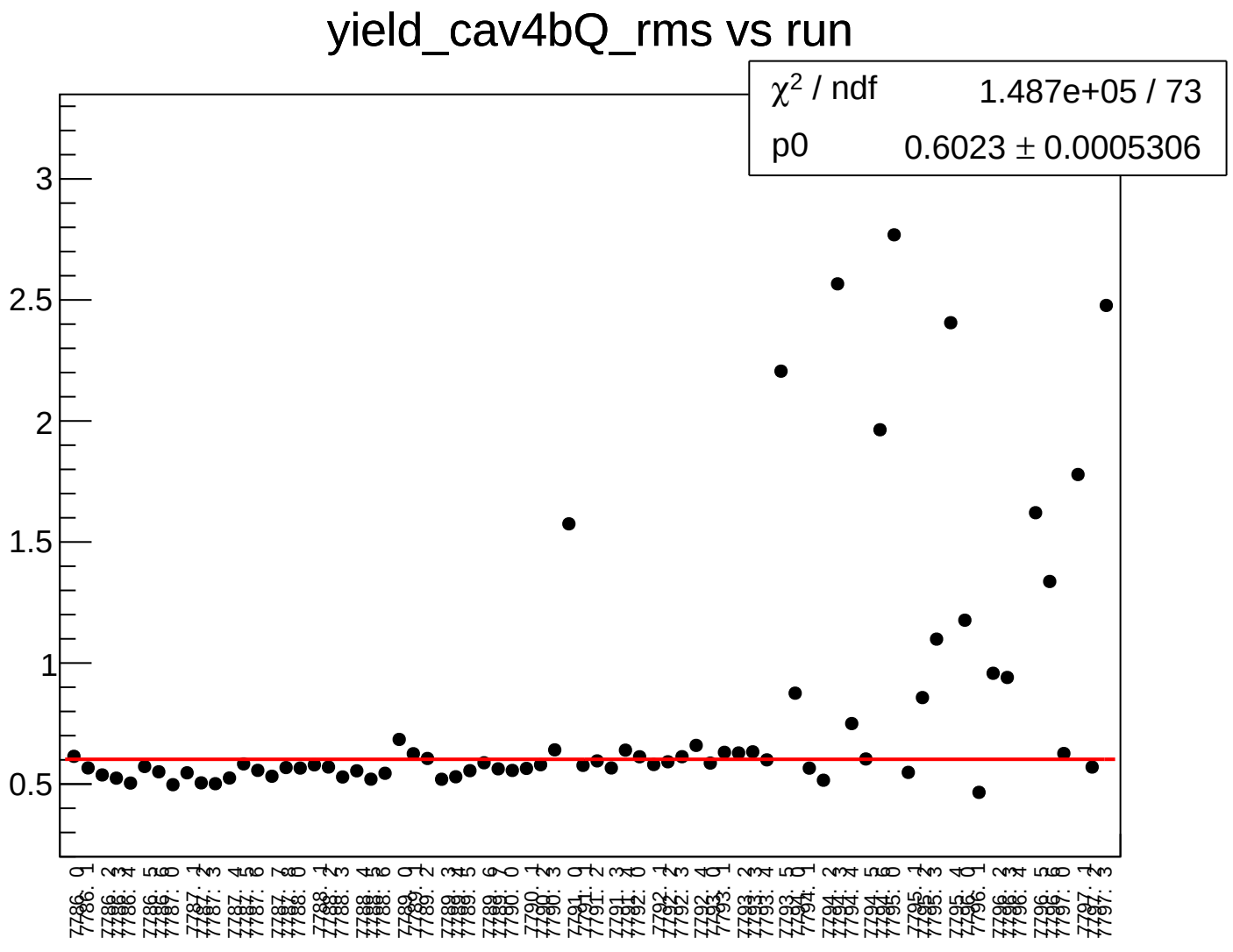

yield_bcm_dg_us_rms vs run
χ² / ndf 2.241e+04 / 73
p0 0.4224 ± 0.0003552
0.75
0.7
0.65
0.6
0.55
0.5
0.45
0.4
0.35
0.3

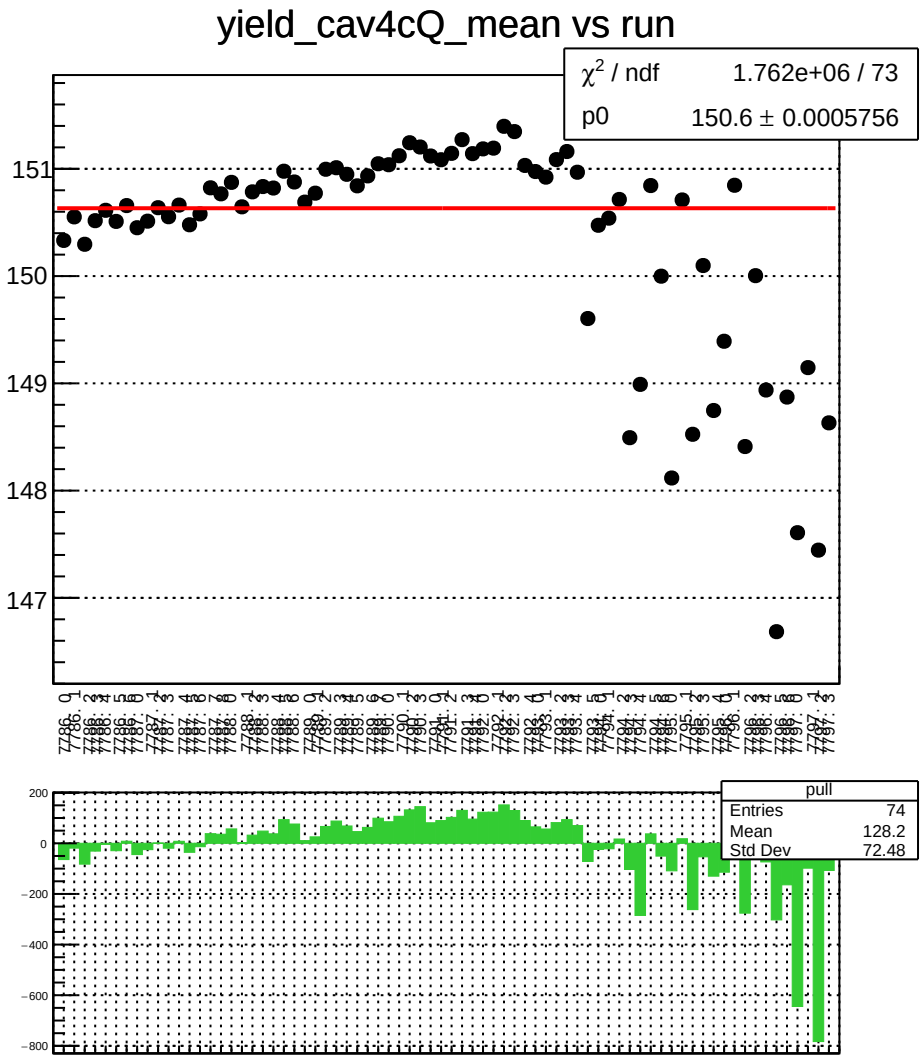

yield_bcm_dg_ds_mean vs run
χ² / ndf 1.473e+06 / 73
p0 145.4 ± 0.0005159
146.5
146
145.5
145
144.5
pull
Entries 74
Mean 194.5
Std Dev 188.8
300
200
100
0
−100
−200
−300

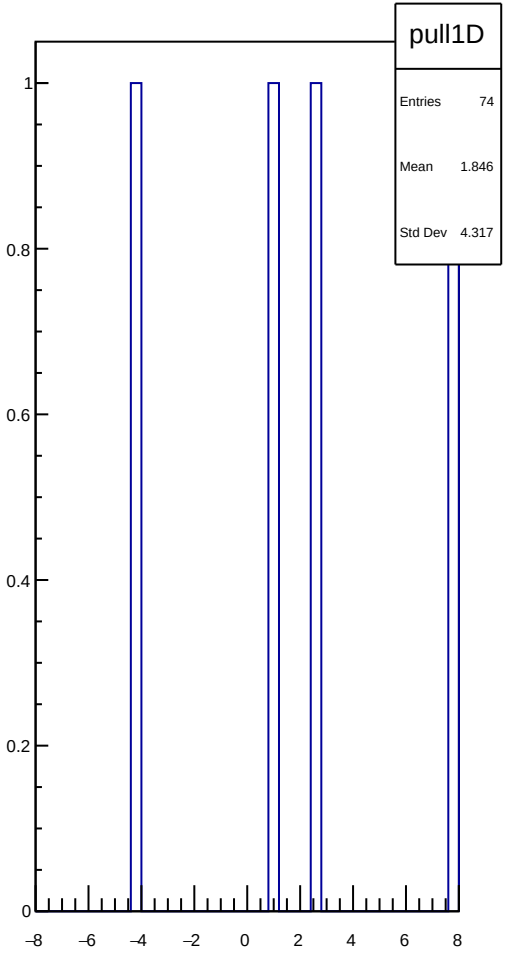

pull1D
Entries 74
Mean 0.7498
Std Dev 3.195
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

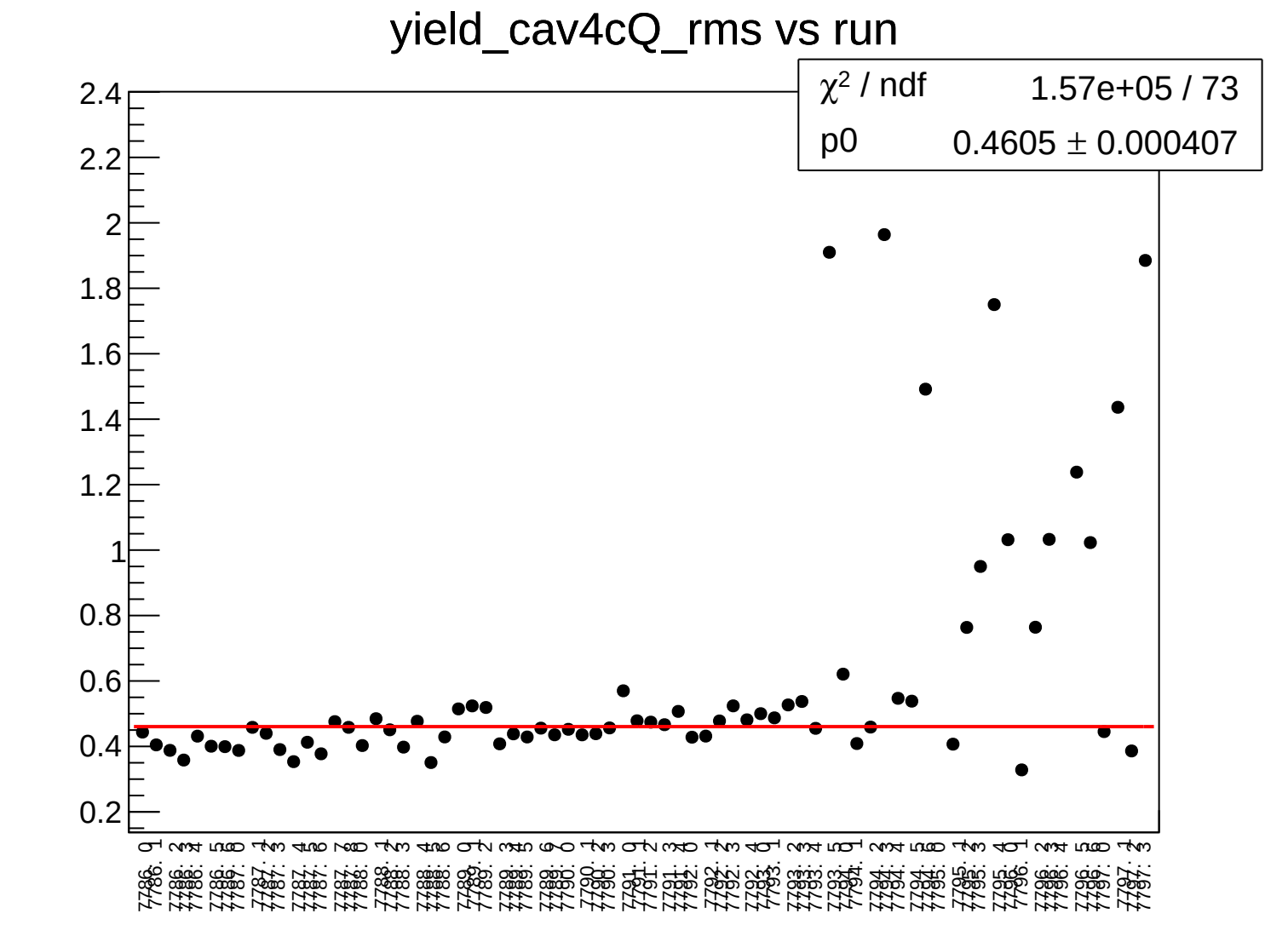

yield_bcm_dg_ds_rms vs run
χ² / ndf 2.93e+04 / 73
p0 0.4328 ± 0.0003648
0.8
0.7
0.6
0.5
0.4
0.3

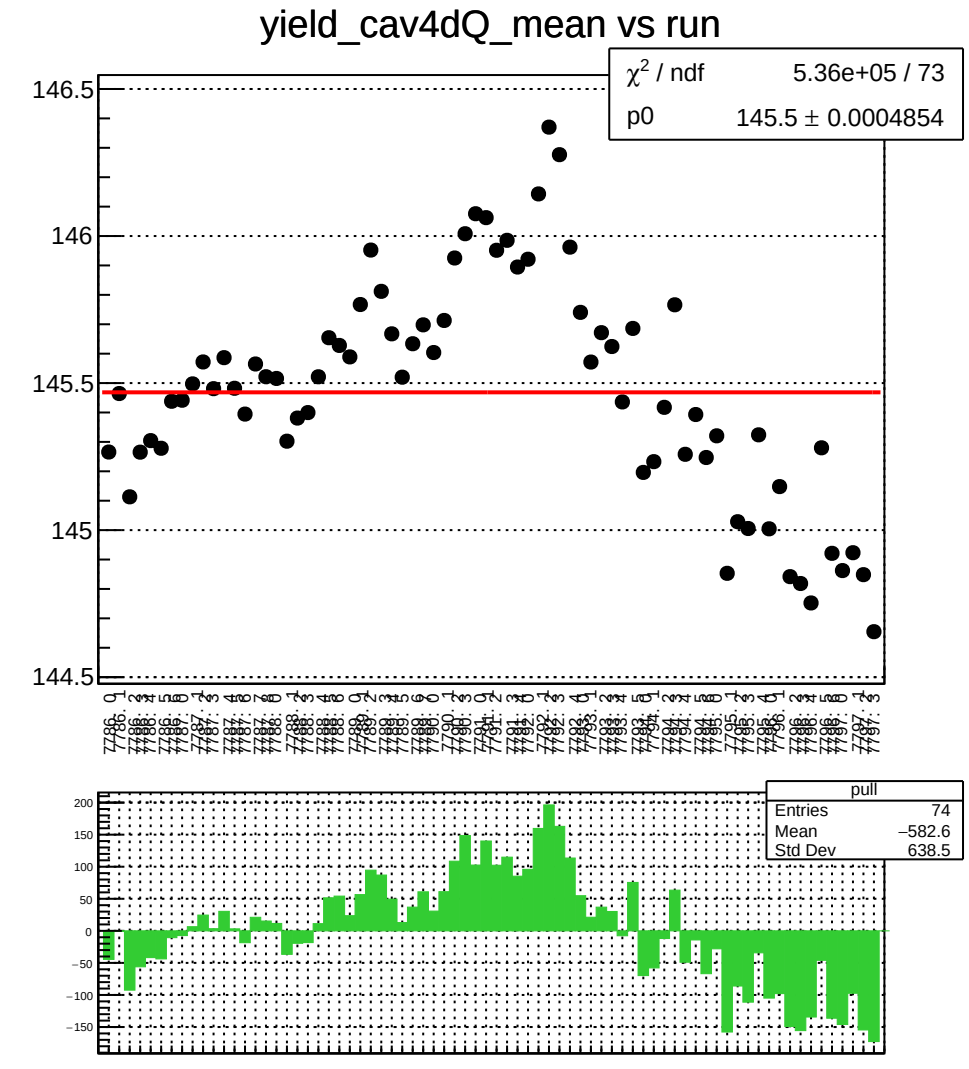

yield_cav4bQ_mean vs run
χ² / ndf 5.897e+05 / 73
p0 141.6 ± 0.0007504
145
144
143
142
141
140
pull
Entries 74
Mean 93.49
Std Dev 59.68
200
100
0
−100
−200
pull1D
Entries 74
Mean −0.95
Std Dev 3.959
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

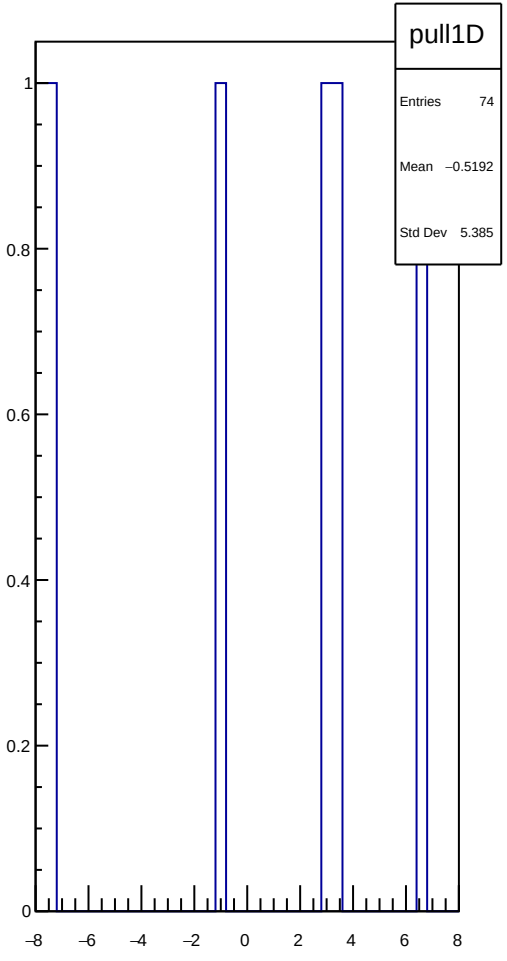

yield_cav4bQ_rms vs run
χ² / ndf 1.487e+05 / 73
p0 0.6023 ± 0.0005306
3
2.5
2
1.5
1
0.5

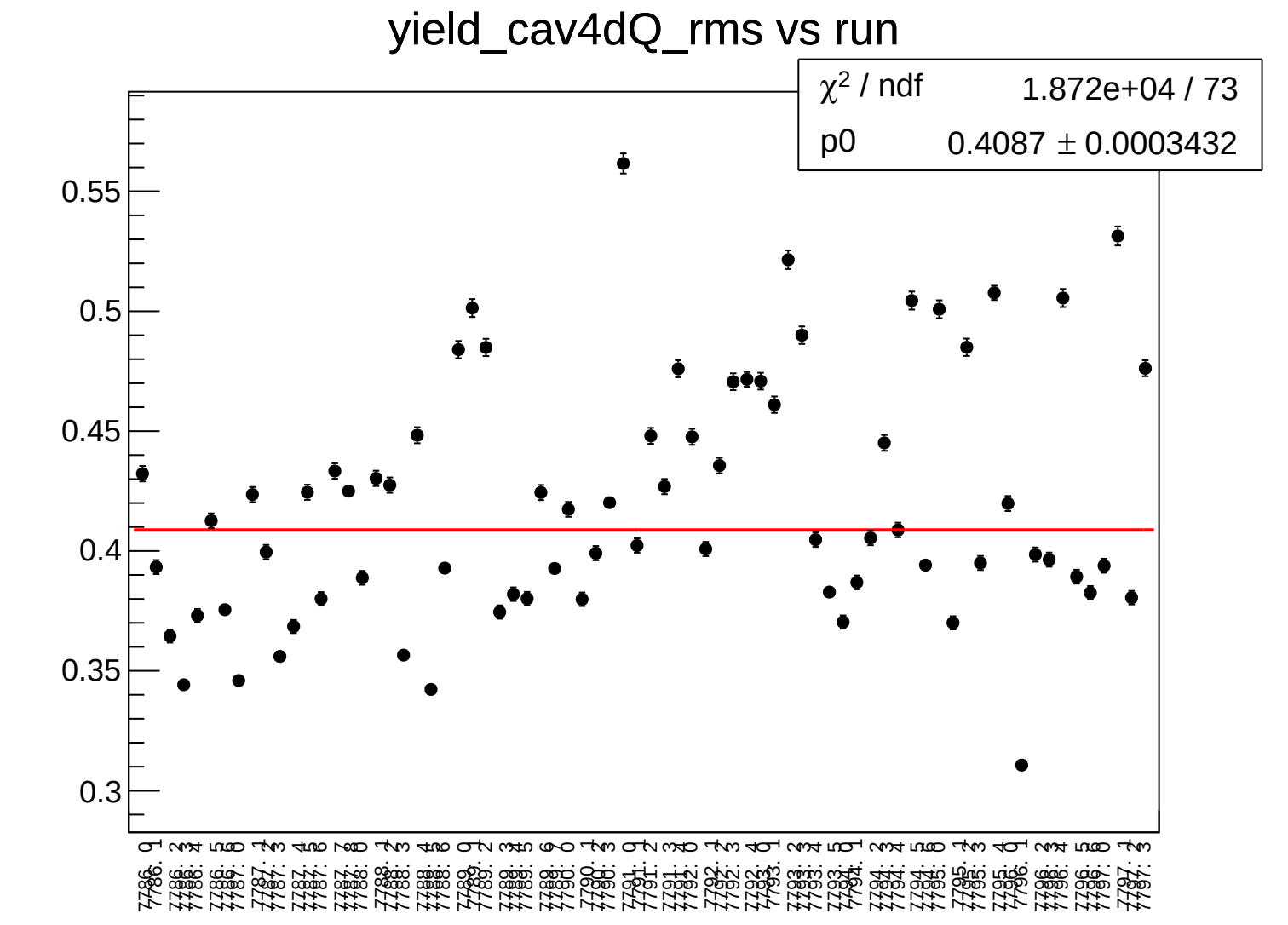

yield_cav4cQ_mean vs run
χ² / ndf 1.762e+06 / 73
p0 150.6 ± 0.0005756
151
150
149
148
147
pull
Entries 74
Mean 128.2
Std Dev 72.48
200
0
−200
−400
−600
−800

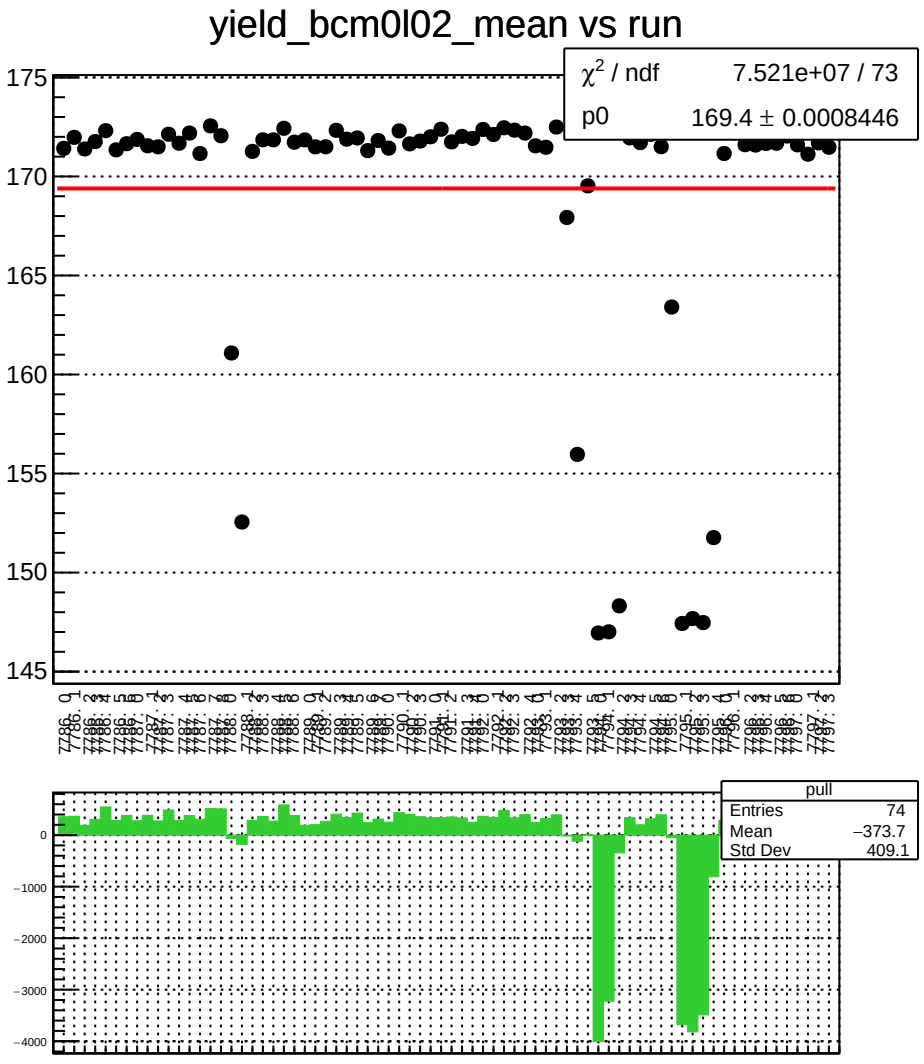

pull1D
Entries 74
Mean 1.846
Std Dev 4.317
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

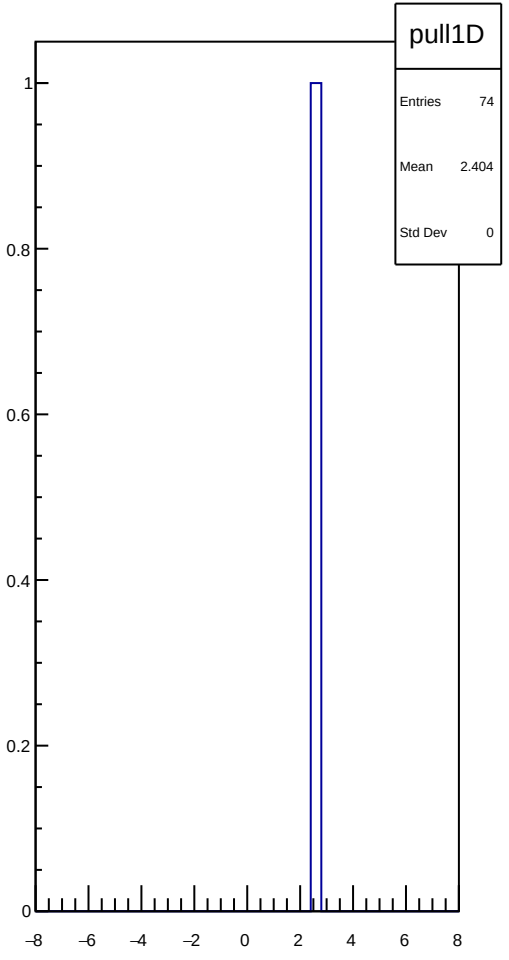

yield_cav4cQ_rms vs run
χ² / ndf 1.57e+05 / 73
p0 0.4605 ± 0.000407
2.4
2.2
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

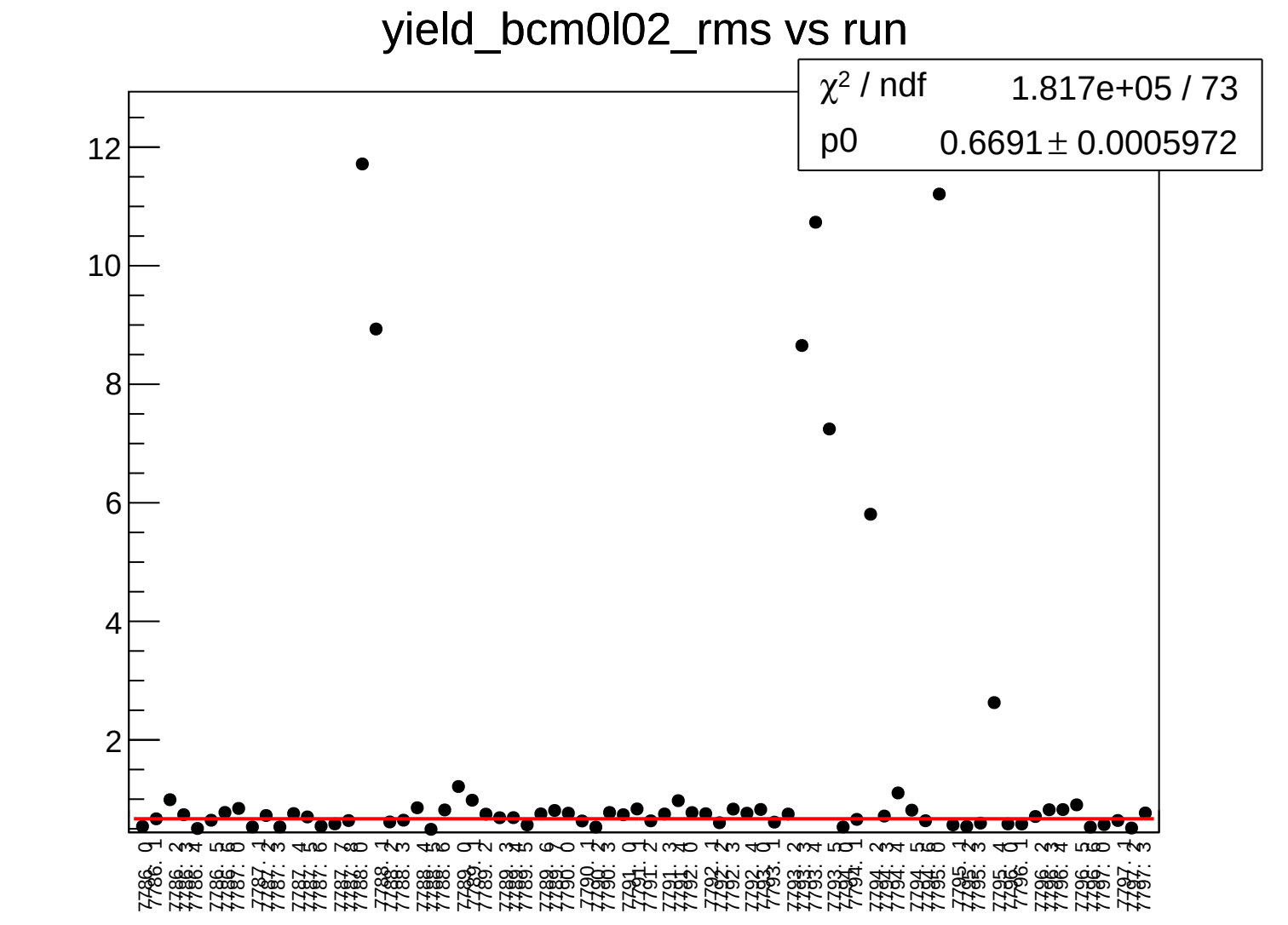

yield_cav4dQ_mean vs run
χ² / ndf 5.36e+05 / 73
p0 145.5 ± 0.0004854
146.5
146
145.5
145
144.5
pull
Entries 74
Mean −582.6
Std Dev 638.5
200
150
100
50
0
−50
−100
−150

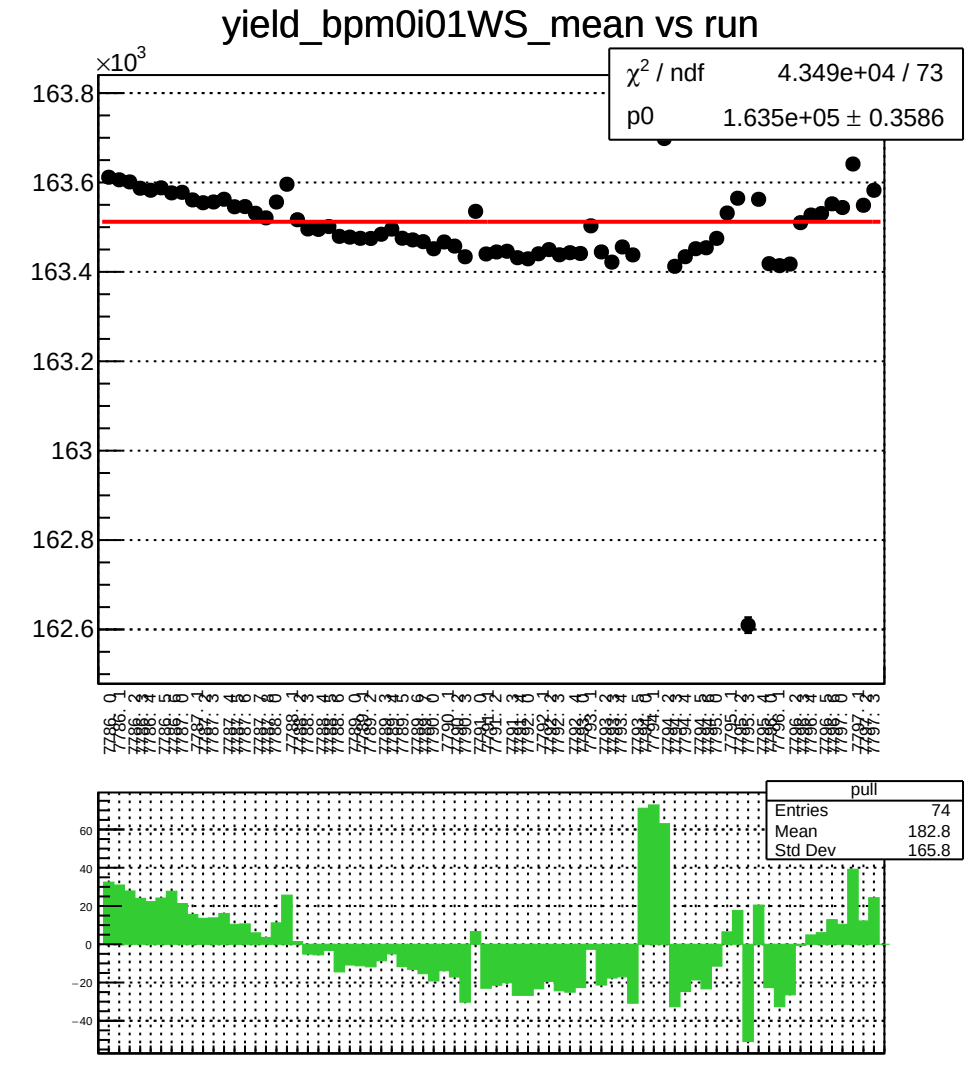

pull1D
Entries 74
Mean −0.5192
Std Dev 5.385
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

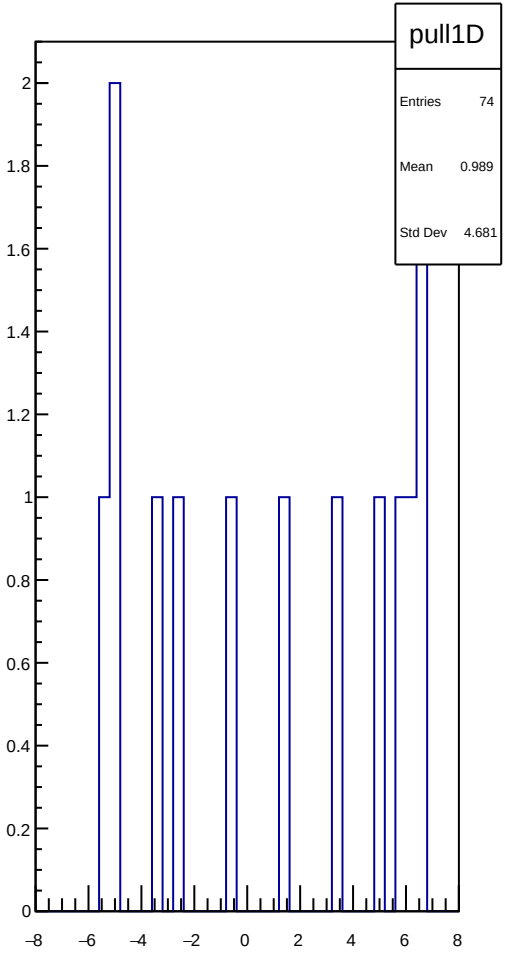

yield_cav4dQ_rms vs run
χ² / ndf 1.872e+04 / 73
p0 0.4087 ± 0.0003432
0.55
0.5
0.45
0.4
0.35
0.3

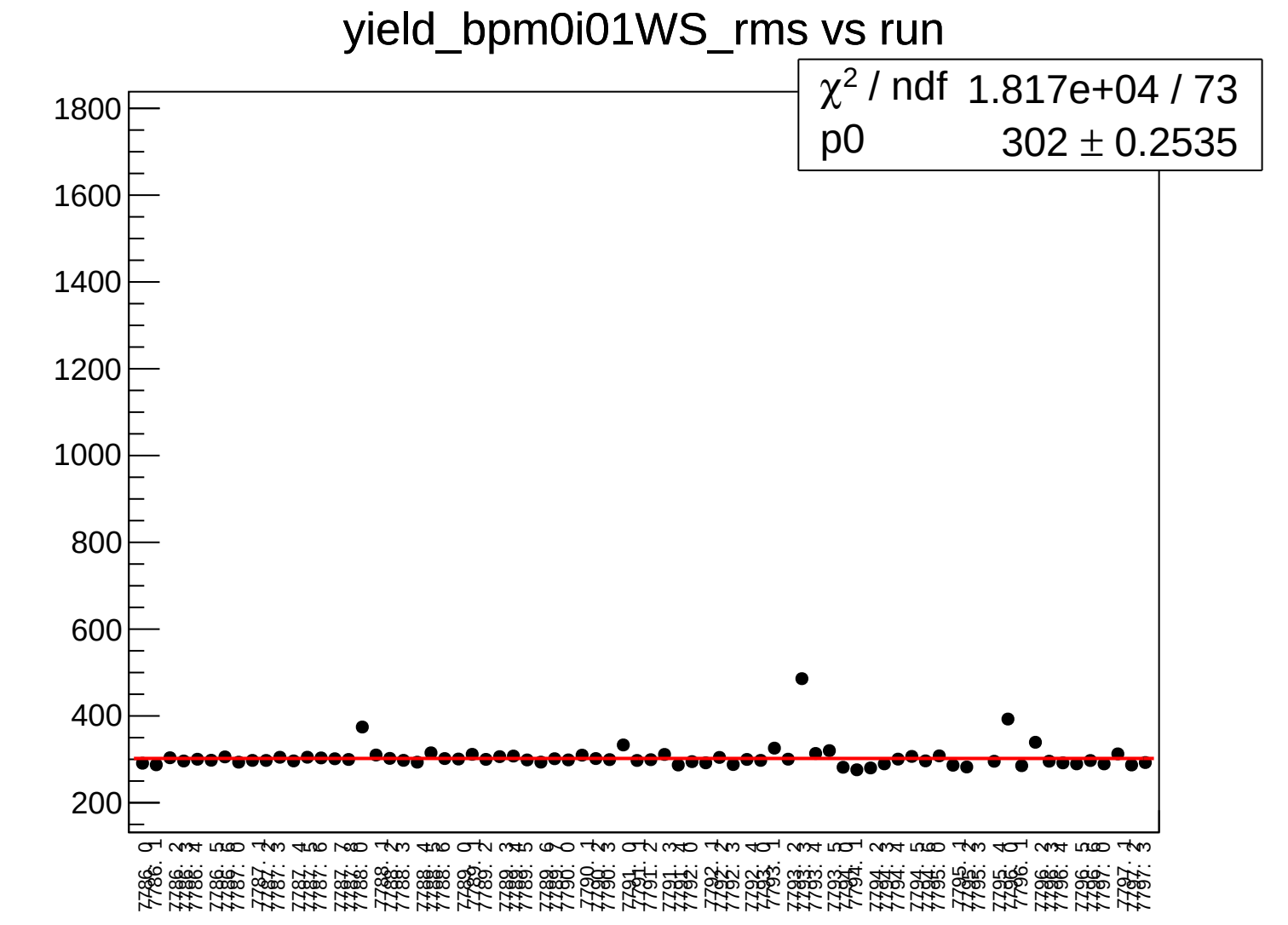

yield_bcm0l02_mean vs run
χ² / ndf 7.521e+07 / 73
p0 169.4 ± 0.0008446
175
170
165
160
155
150
145
pull
Entries 74
Mean −373.7
Std Dev 409.1
0
−1000
−2000
−3000
−4000

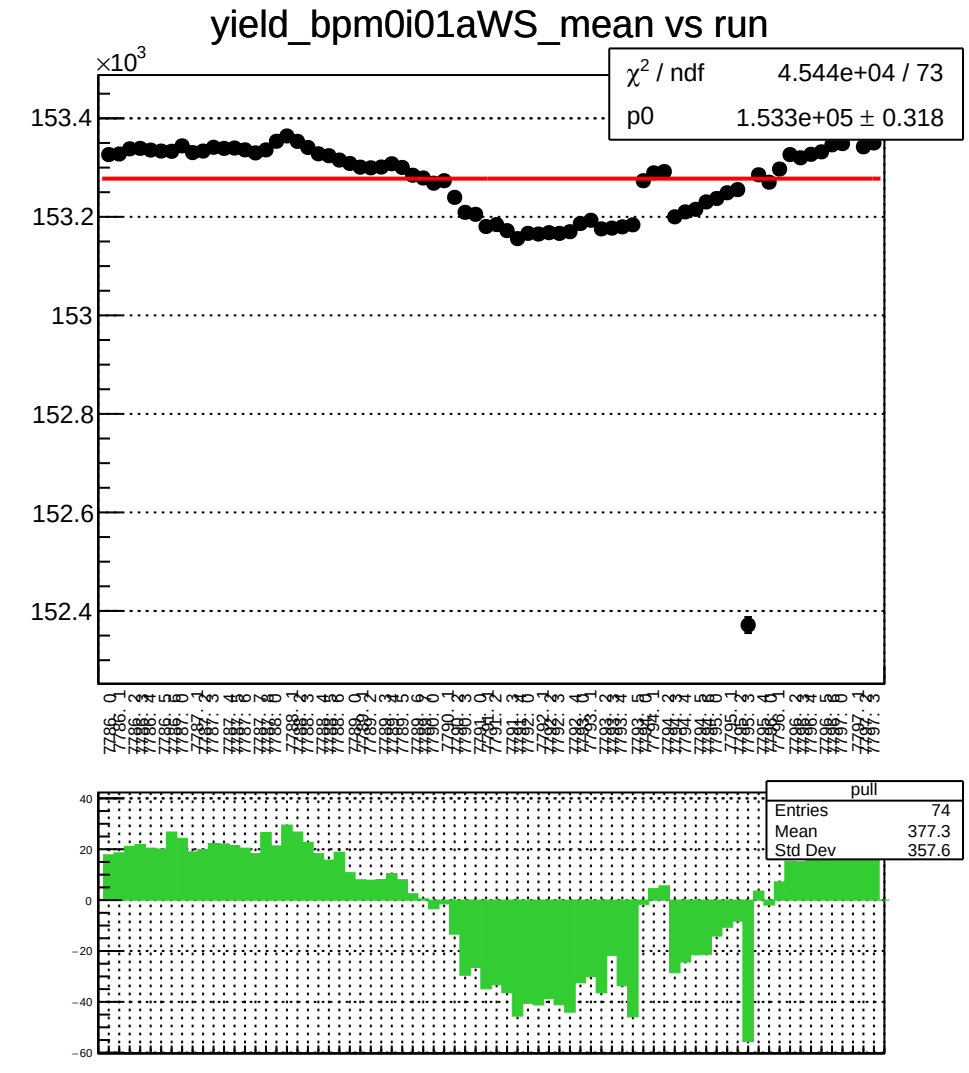

pull1D
Entries 74
Mean 2.404
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

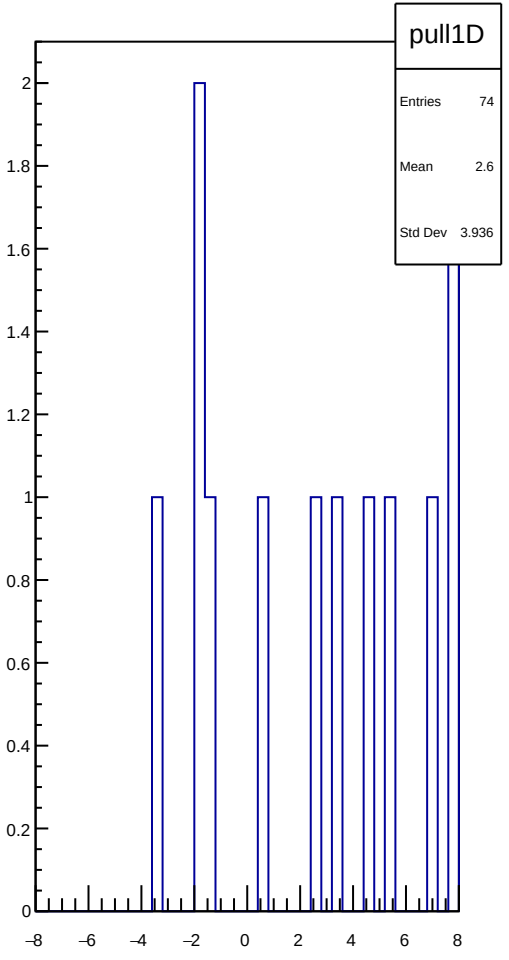

yield_bcm0l02_rms vs run
χ² / ndf 1.817e+05 / 73
p0 0.6691 ± 0.0005972
12
10
8
6
4
2

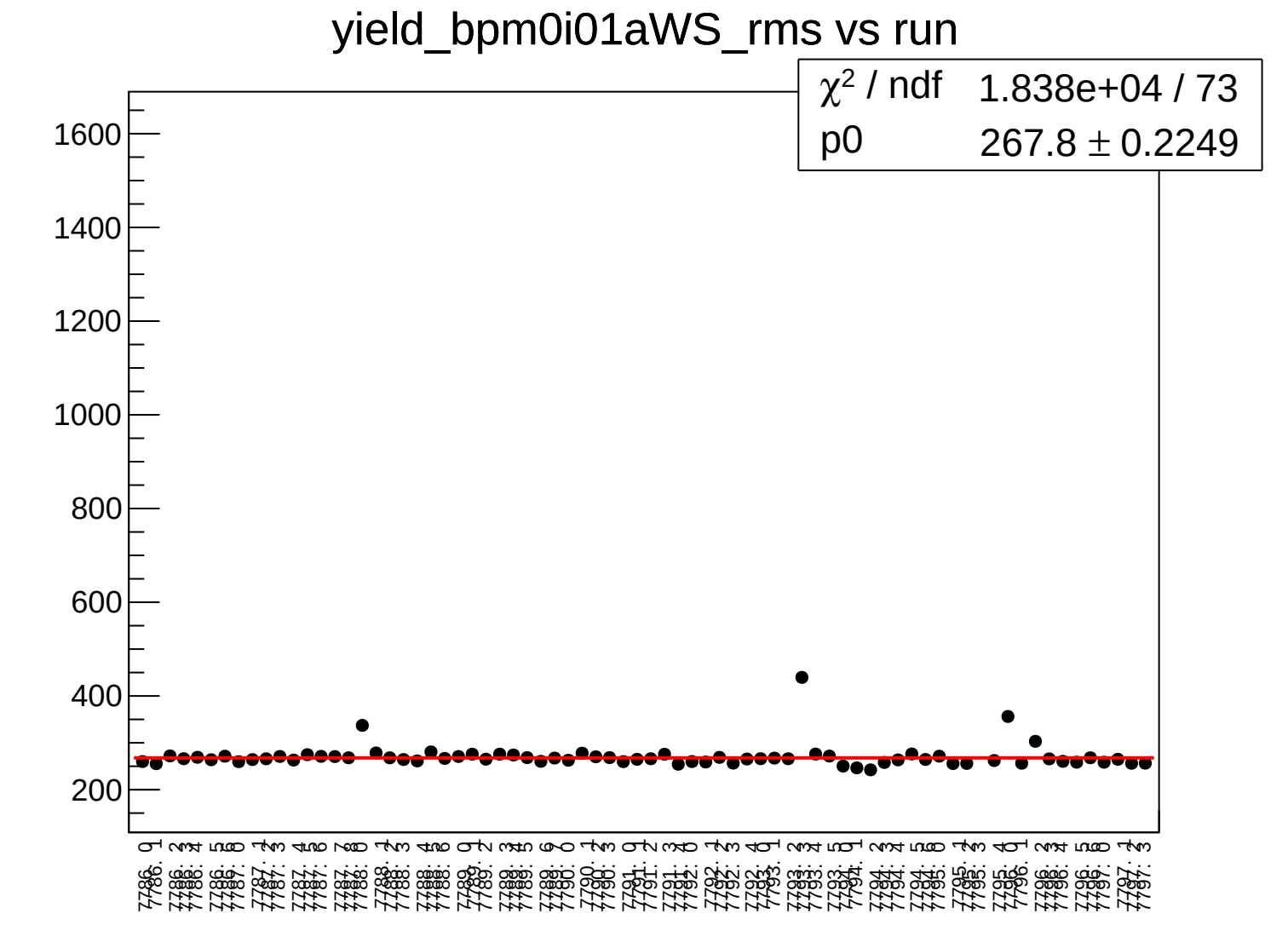

yield_bpm0i01WS_mean vs run
×10^3
χ² / ndf 4.349e+04 / 73
p0 1.635e+05 ± 0.3586
163.8
163.6
163.4
163.2
163
162.8
162.6
pull
Entries 74
Mean 182.8
Std Dev 165.8
60
40
20
0
−20
−40

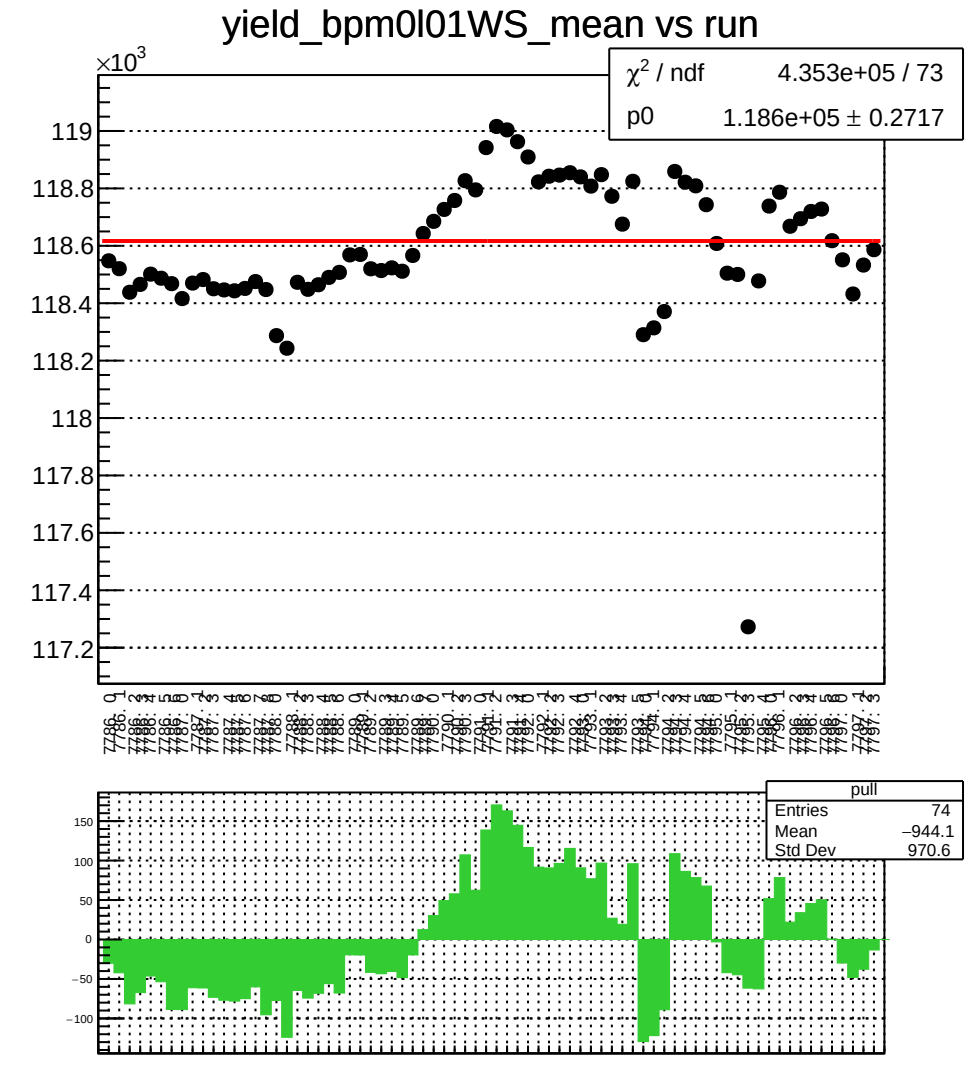

pull1D
Entries 74
Mean 0.989
Std Dev 4.681
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

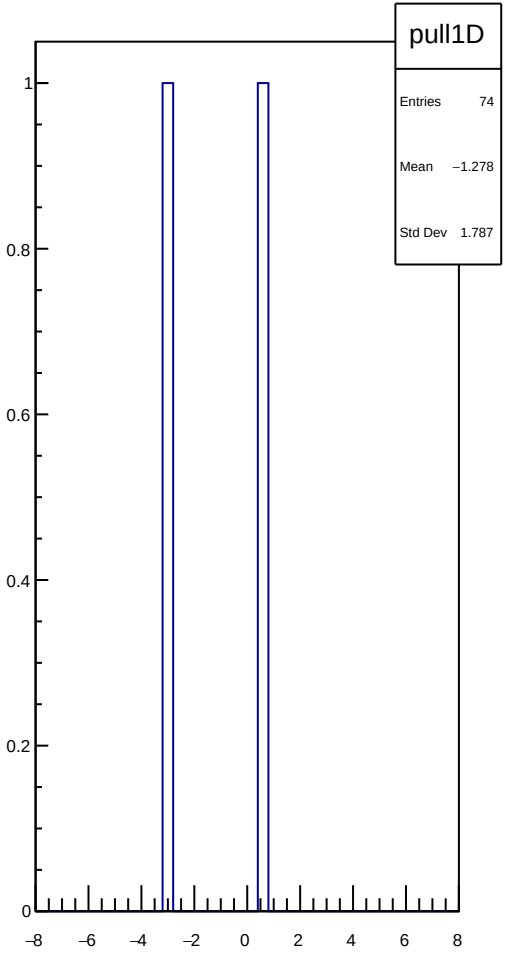

yield_bpm0i01WS_rms vs run
χ² / ndf 1.817e+04 / 73
p0 302 ± 0.2535
1800
1600
1400
1200
1000
800
600
400
200

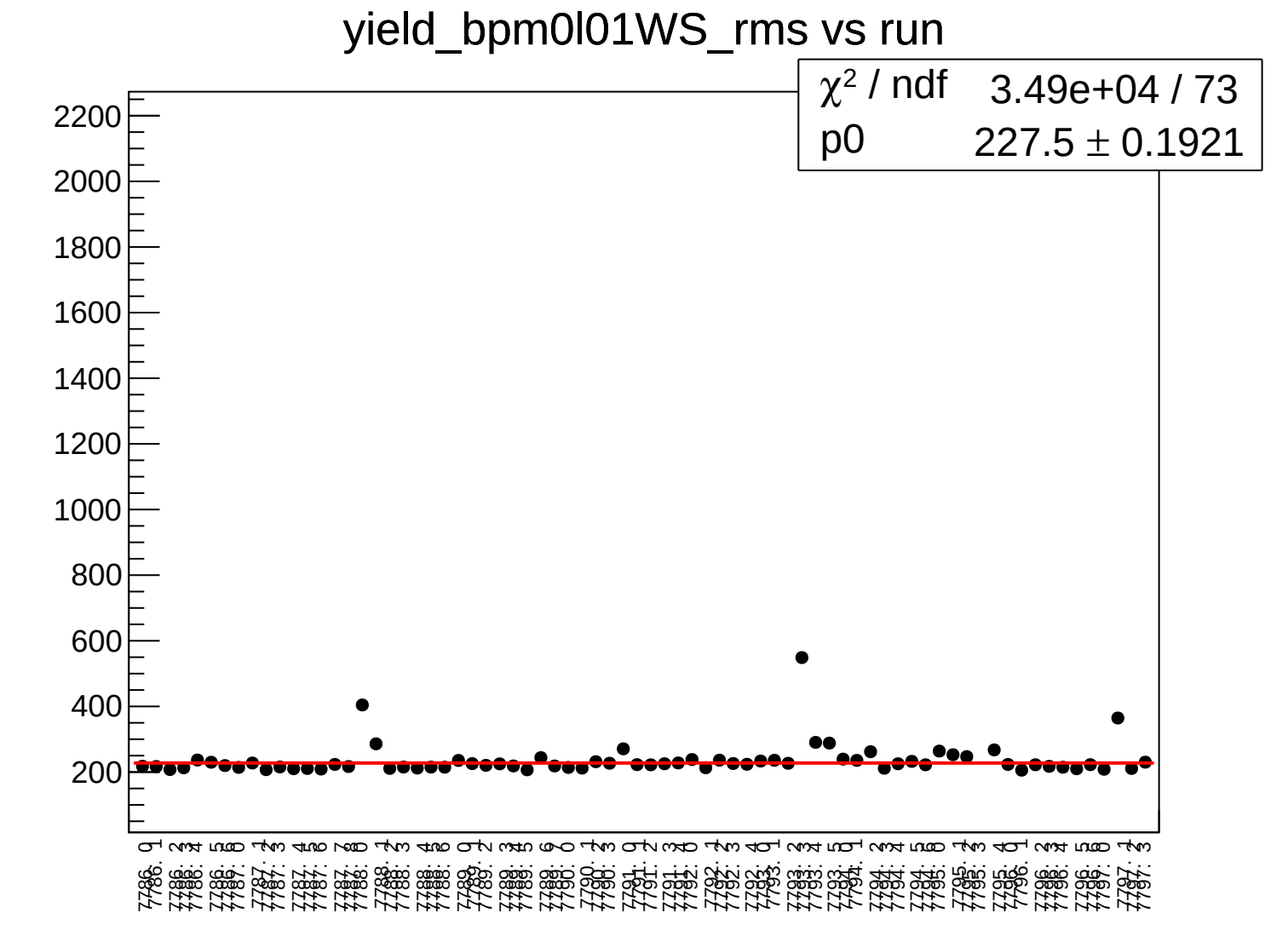

yield_bpm0i01aWS_mean vs run
×10^3
χ² / ndf 4.544e+04 / 73
p0 1.533e+05 ± 0.318
153.4
153.2
153
152.8
152.6
152.4
pull
Entries 74
Mean 377.3
Std Dev 357.6
40
20
0
−20
−40
−60

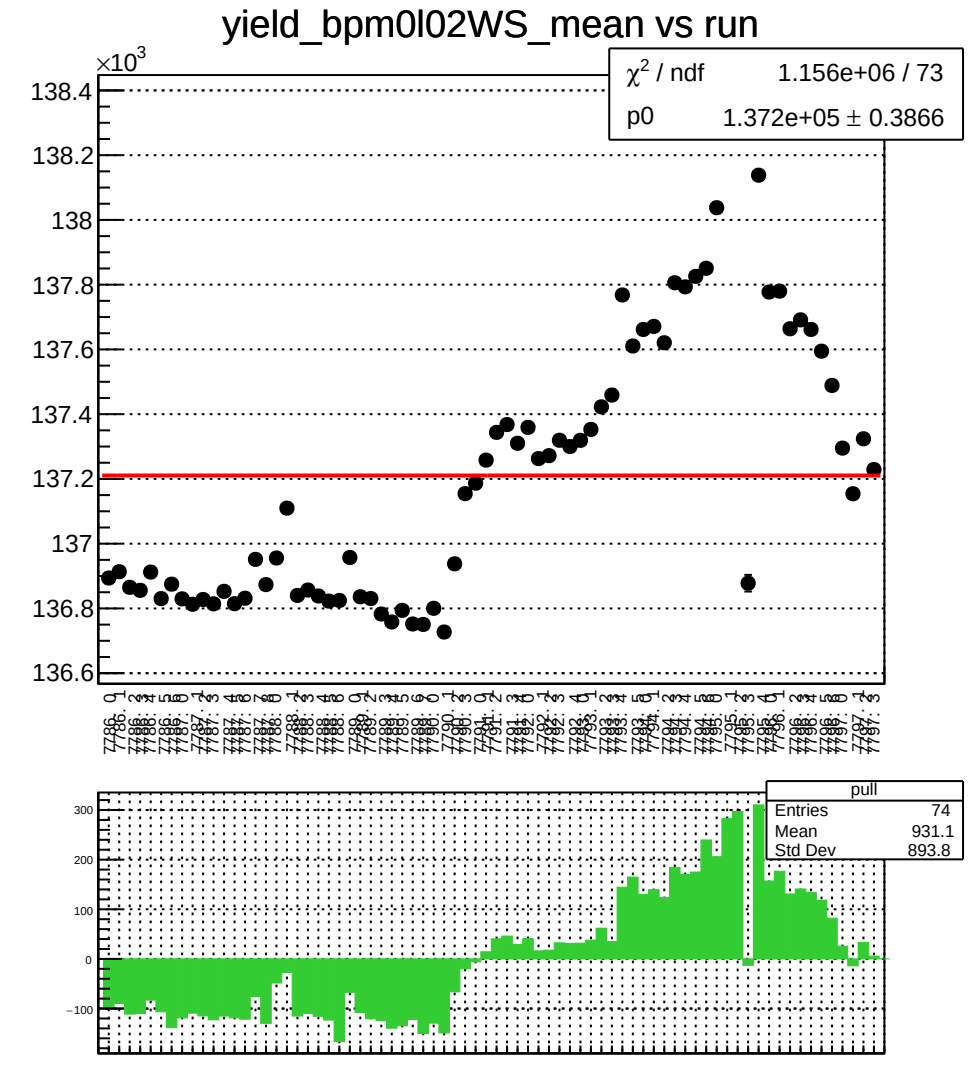

pull1D
Entries 74
Mean 2.6
Std Dev 3.936
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

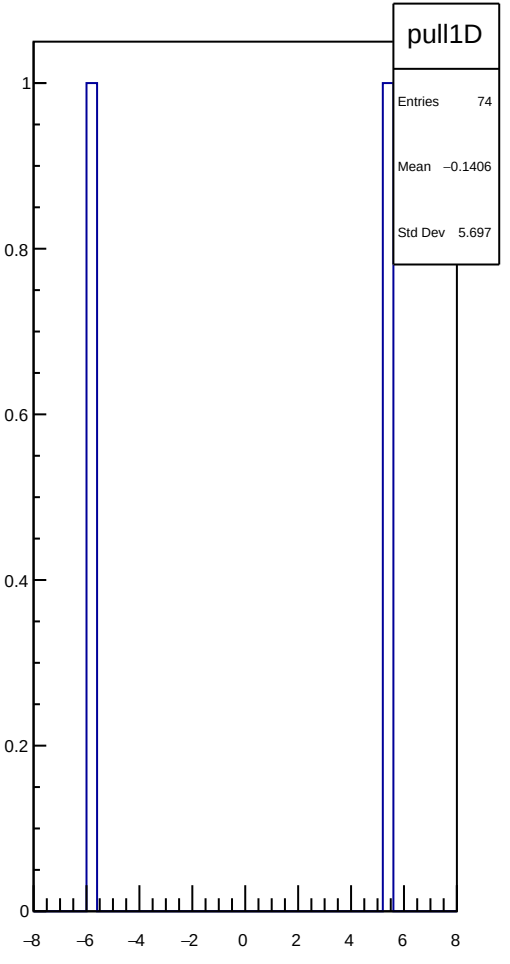

yield_bpm0i01aWS_rms vs run
χ² / ndf 1.838e+04 / 73
p0 267.8 ± 0.2249
1600
1400
1200
1000
800
600
400
200

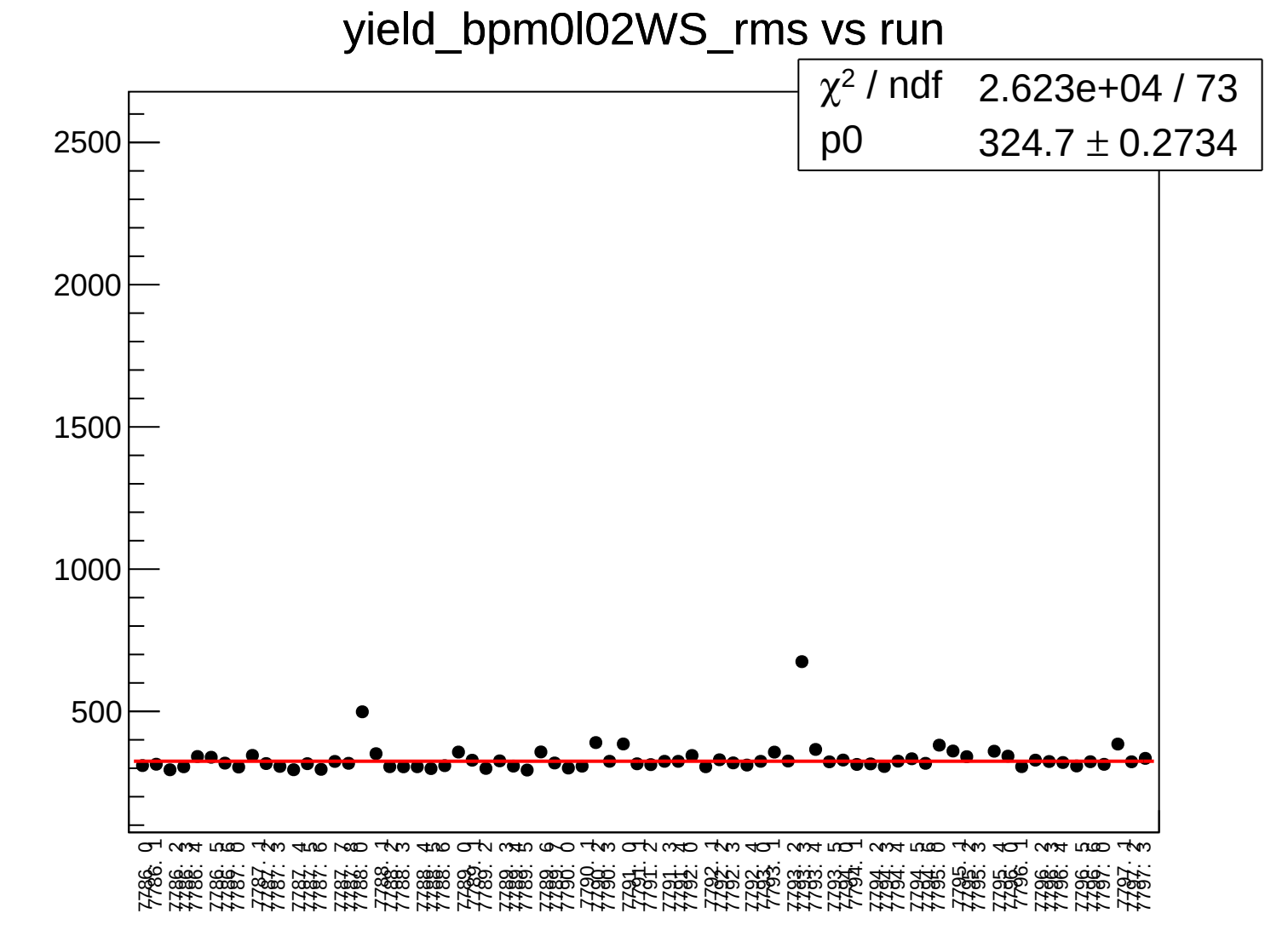

yield_bpm0l01WS_mean vs run
×10^3
χ² / ndf 4.353e+05 / 73
p0 1.186e+05 ± 0.2717
119
118.8
118.6
118.4
118.2
118
117.8
117.6
117.4
117.2
pull
Entries 74
Mean −944.1
Std Dev 970.6
150
100
50
0
−50
−100

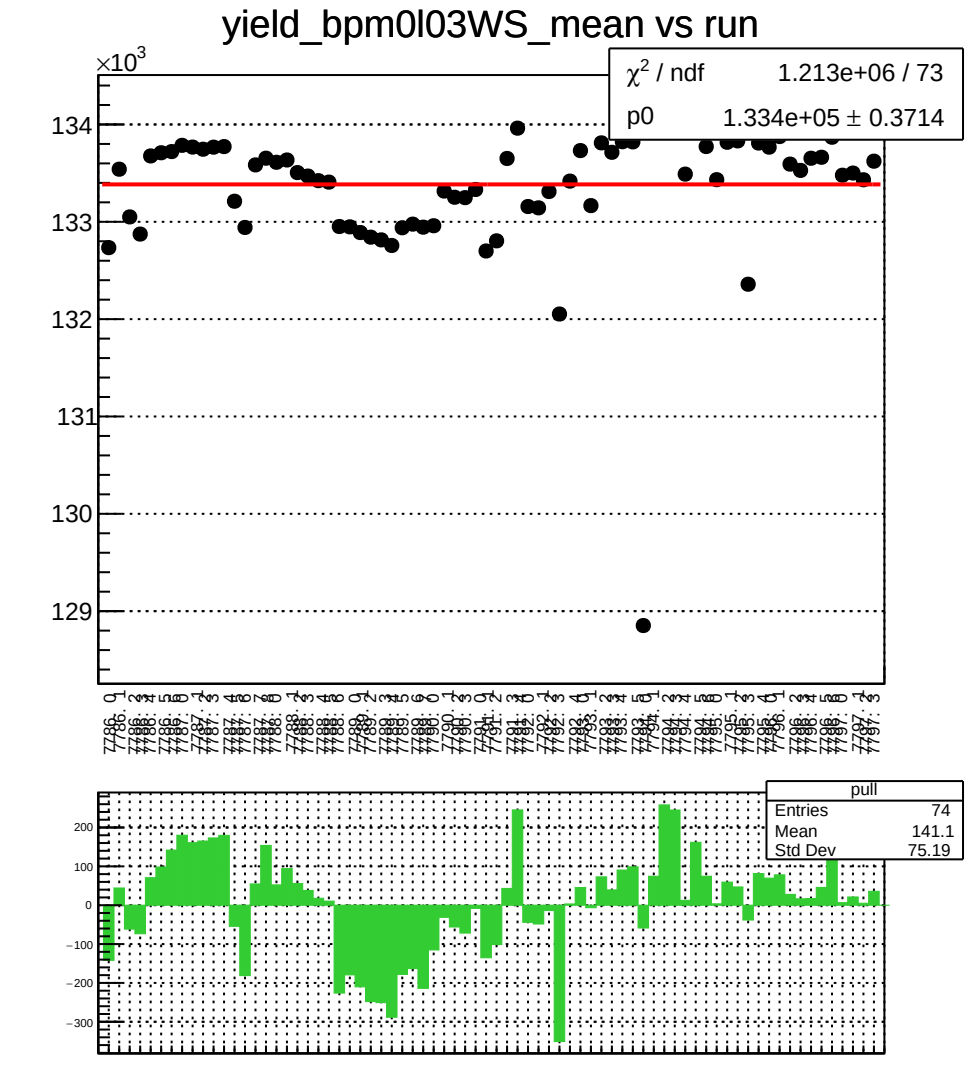

pull1D
Entries 74
Mean −1.278
Std Dev 1.787
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

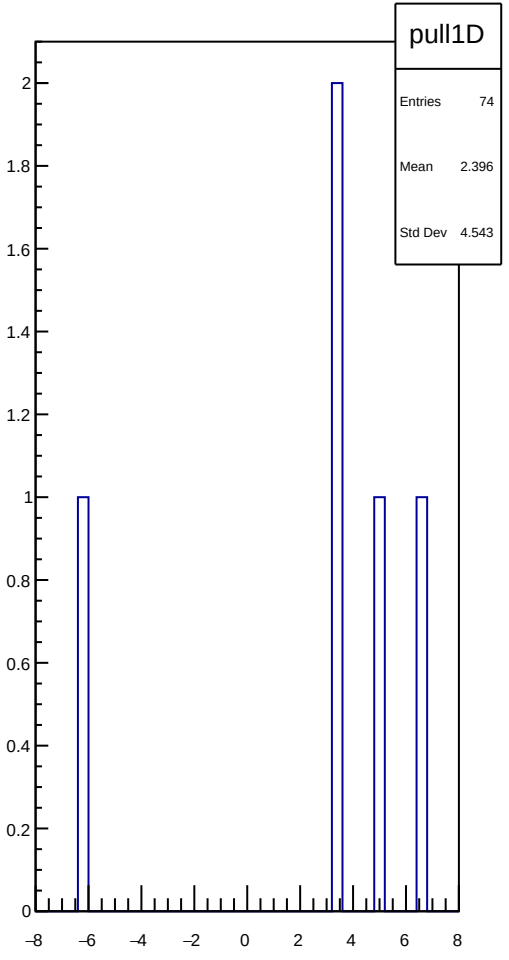

yield_bpm0l01WS_rms vs run
χ² / ndf 3.49e+04 / 73
p0 227.5 ± 0.1921
2200
2000
1800
1600
1400
1200
1000
800
600
400
200

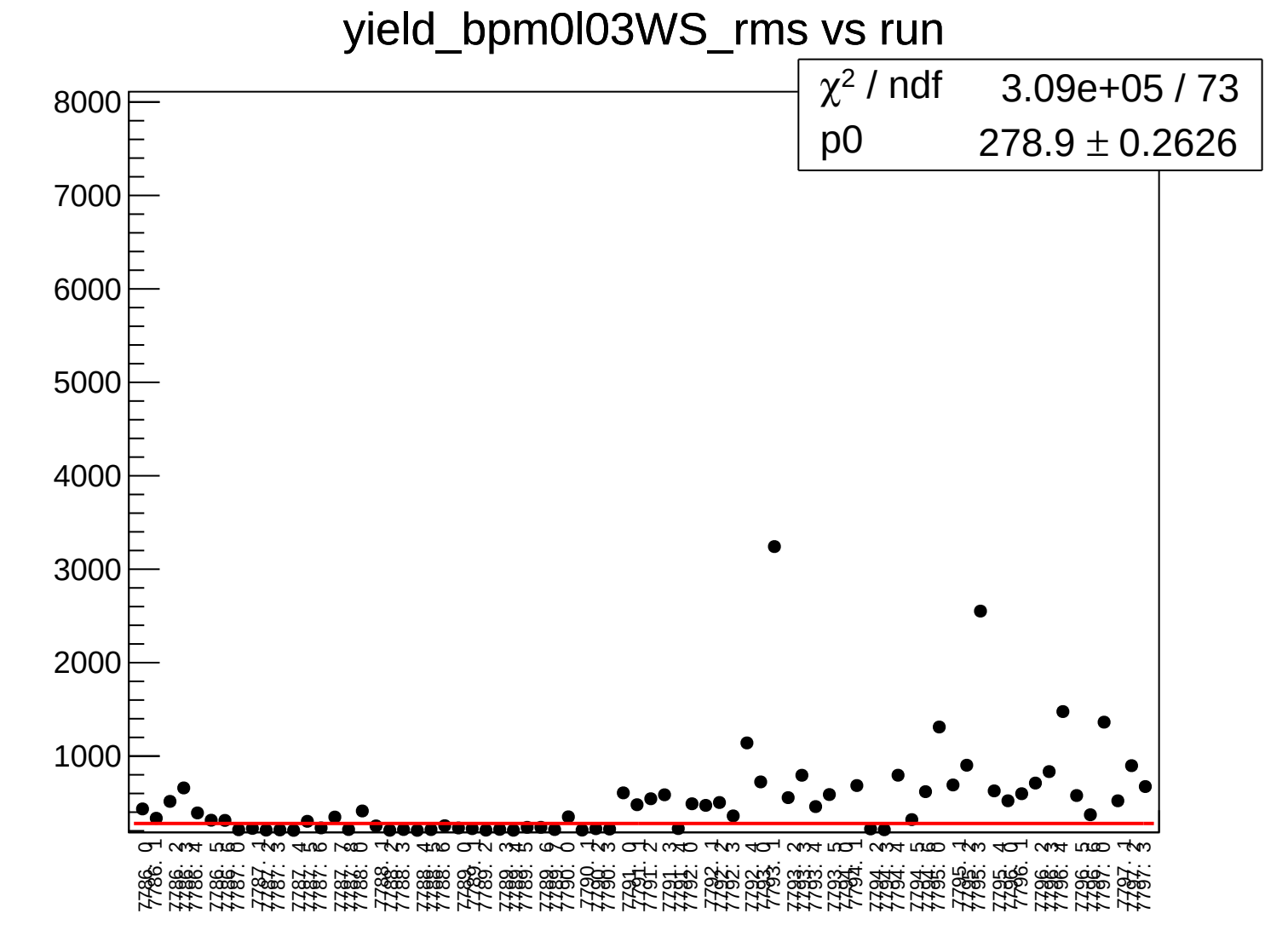

yield_bpm0l02WS_mean vs run
×10^3
χ² / ndf 1.156e+06 / 73
p0 1.372e+05 ± 0.3866
138.4
138.2
138
137.8
137.6
137.4
137.2
137
136.8
136.6
pull
Entries 74
Mean 931.1
Std Dev 893.8
300
200
100
0
−100

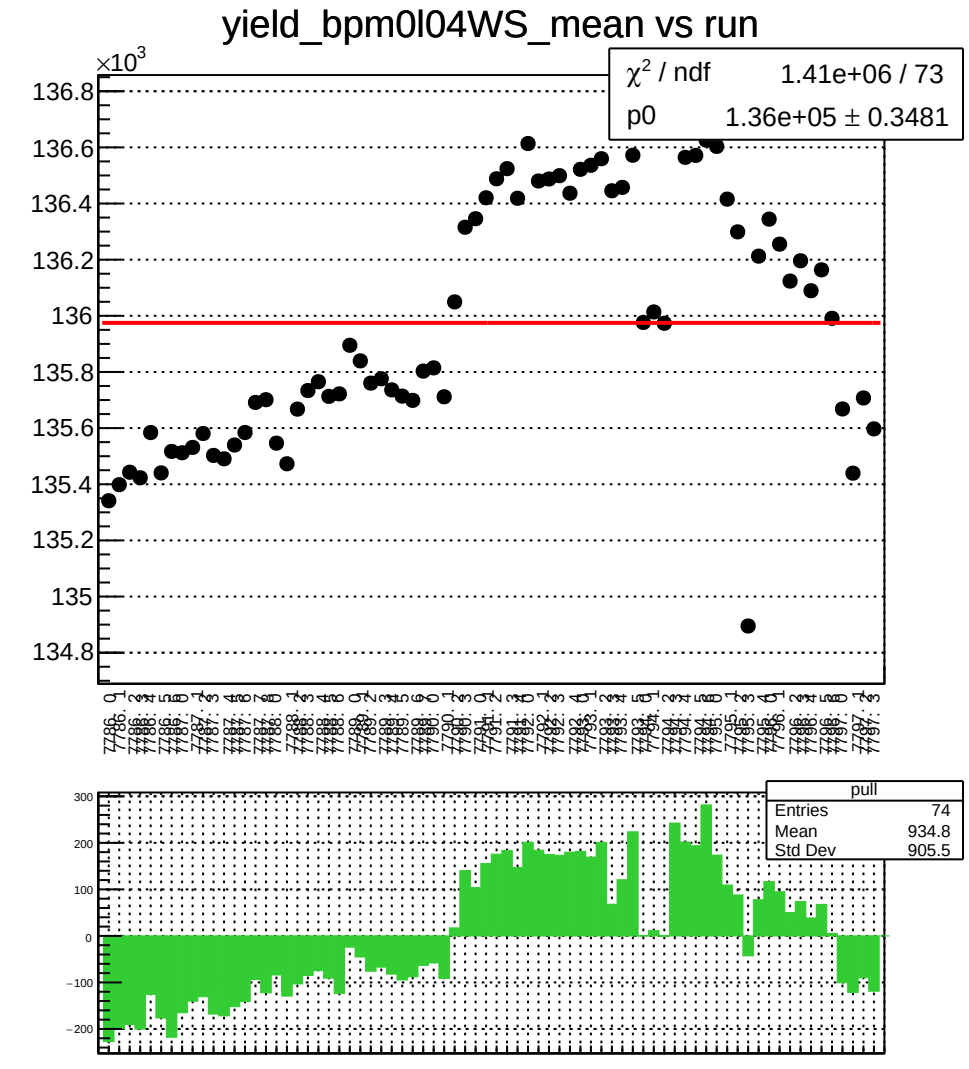

pull1D
Entries 74
Mean −0.1406
Std Dev 5.697
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

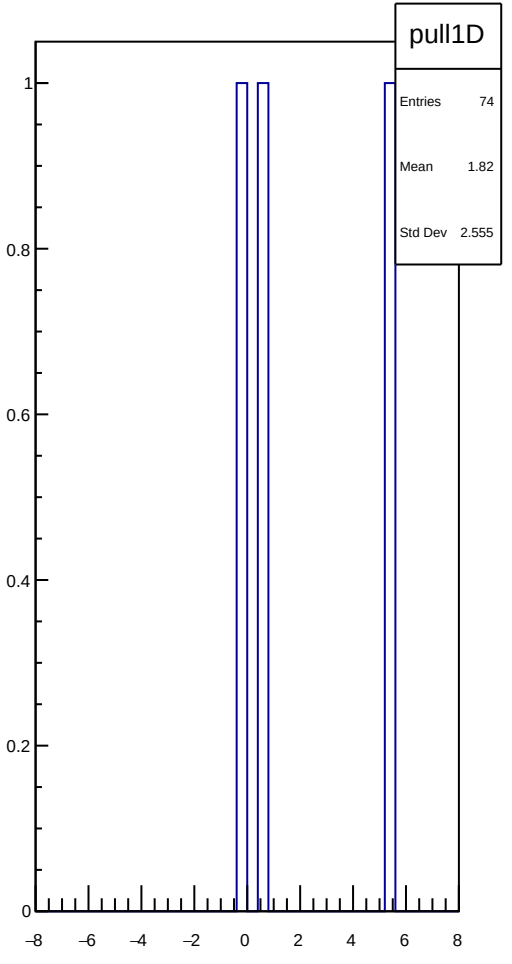

yield_bpm0l02WS_rms vs run
χ² / ndf 2.623e+04 / 73
p0 324.7 ± 0.2734
2500
2000
1500
1000
500

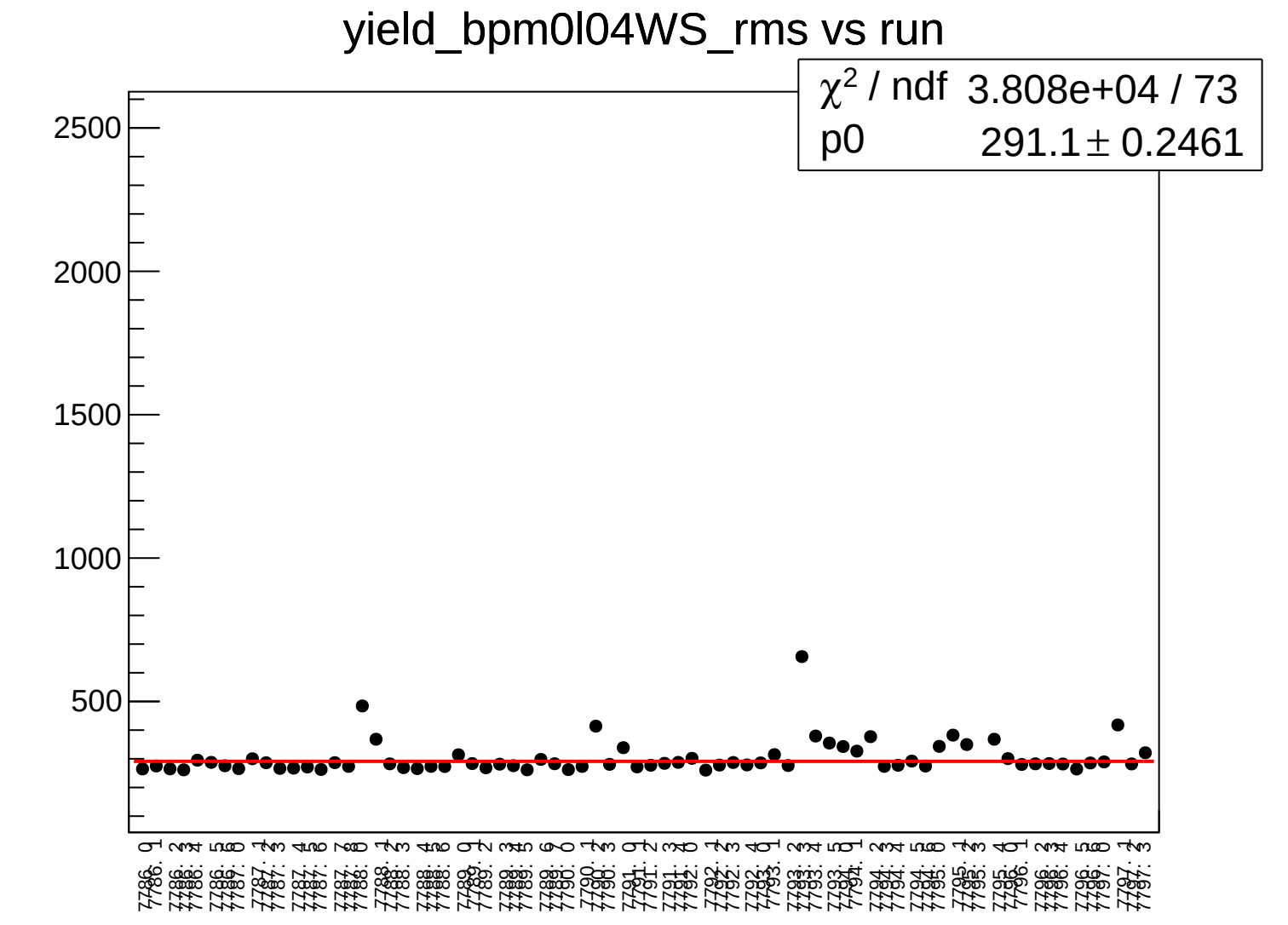

yield_bpm0l03WS_mean vs run
×10^3
χ² / ndf 1.213e+06 / 73
p0 1.334e+05 ± 0.3714
134
133
132
131
130
129
pull
Entries 74
Mean 141.1
Std Dev 75.19
200
100
0
−100
−200
−300

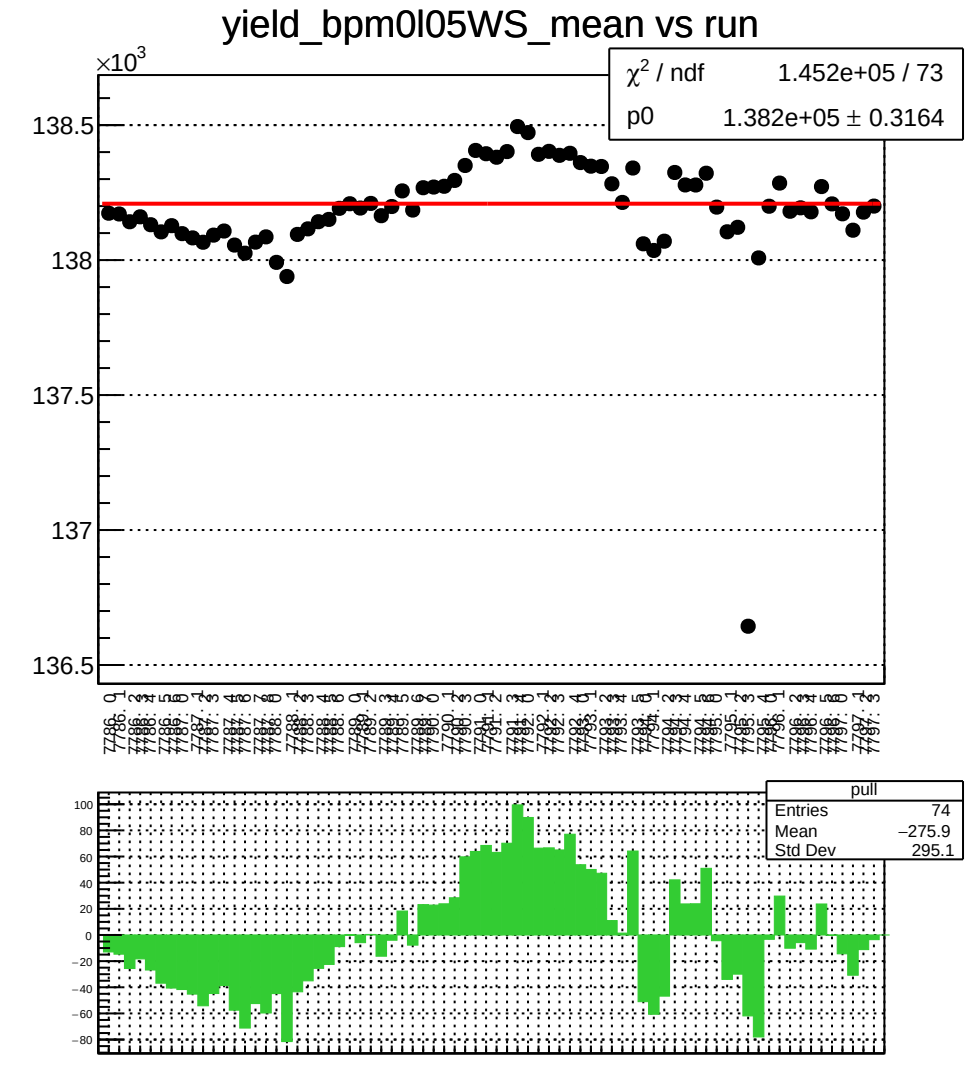

pull1D
Entries 74
Mean 2.396
Std Dev 4.543
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

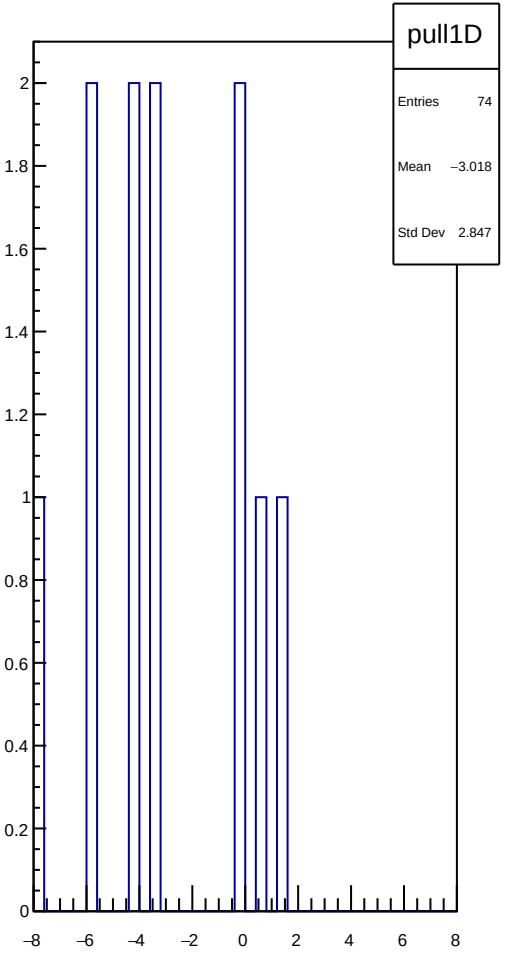

yield_bpm0l03WS_rms vs run
χ² / ndf 3.09e+05 / 73
p0 278.9 ± 0.2626
8000
7000
6000
5000
4000
3000
2000
1000

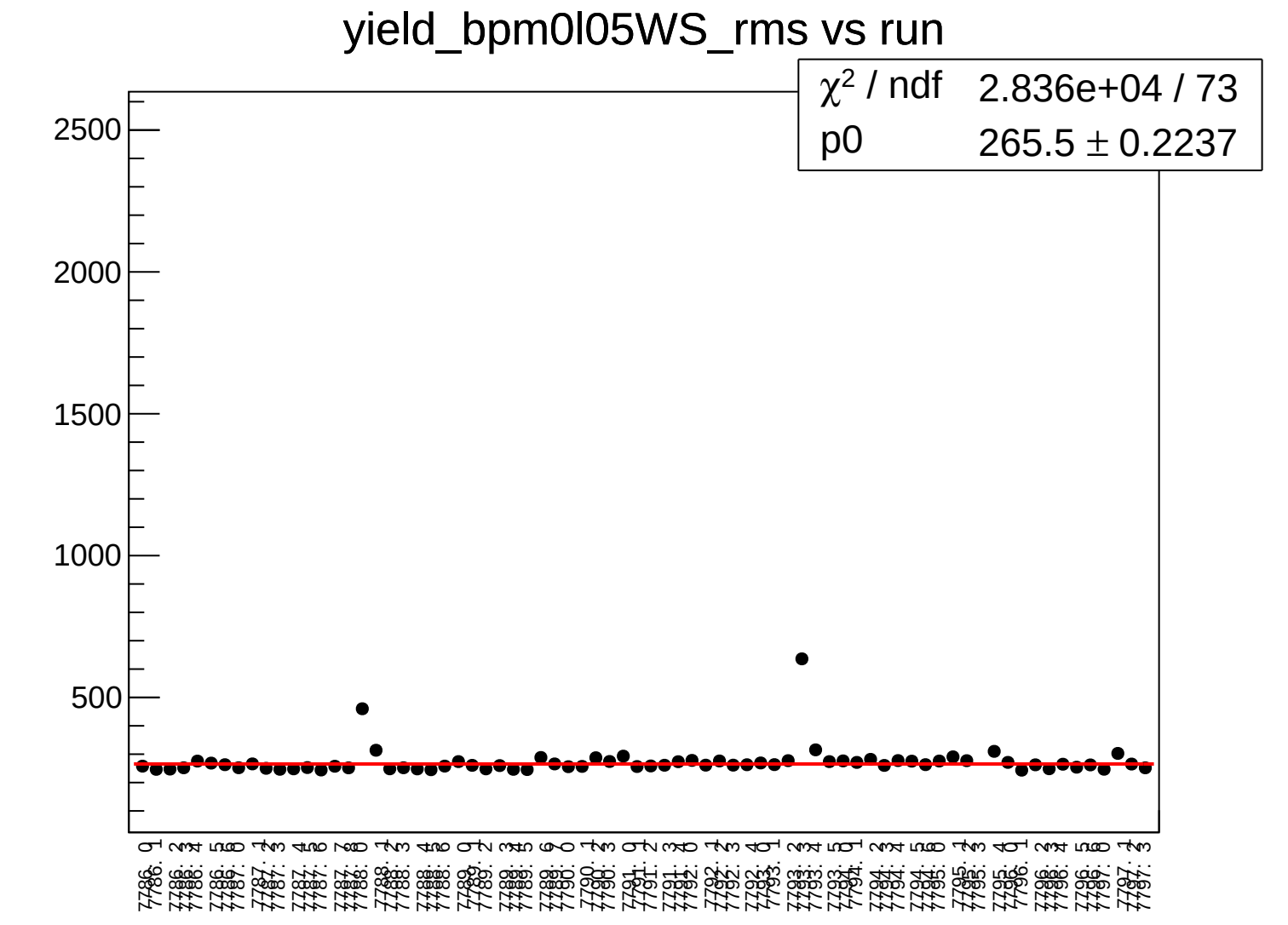

yield_bpm0l04WS_mean vs run
×10^3
χ² / ndf 1.41e+06 / 73
p0 1.36e+05 ± 0.3481
136.8
136.6
136.4
136.2
136
135.8
135.6
135.4
135.2
135
134.8
pull
Entries 74
Mean 934.8
Std Dev 905.5
300
200
100
0
−100
−200

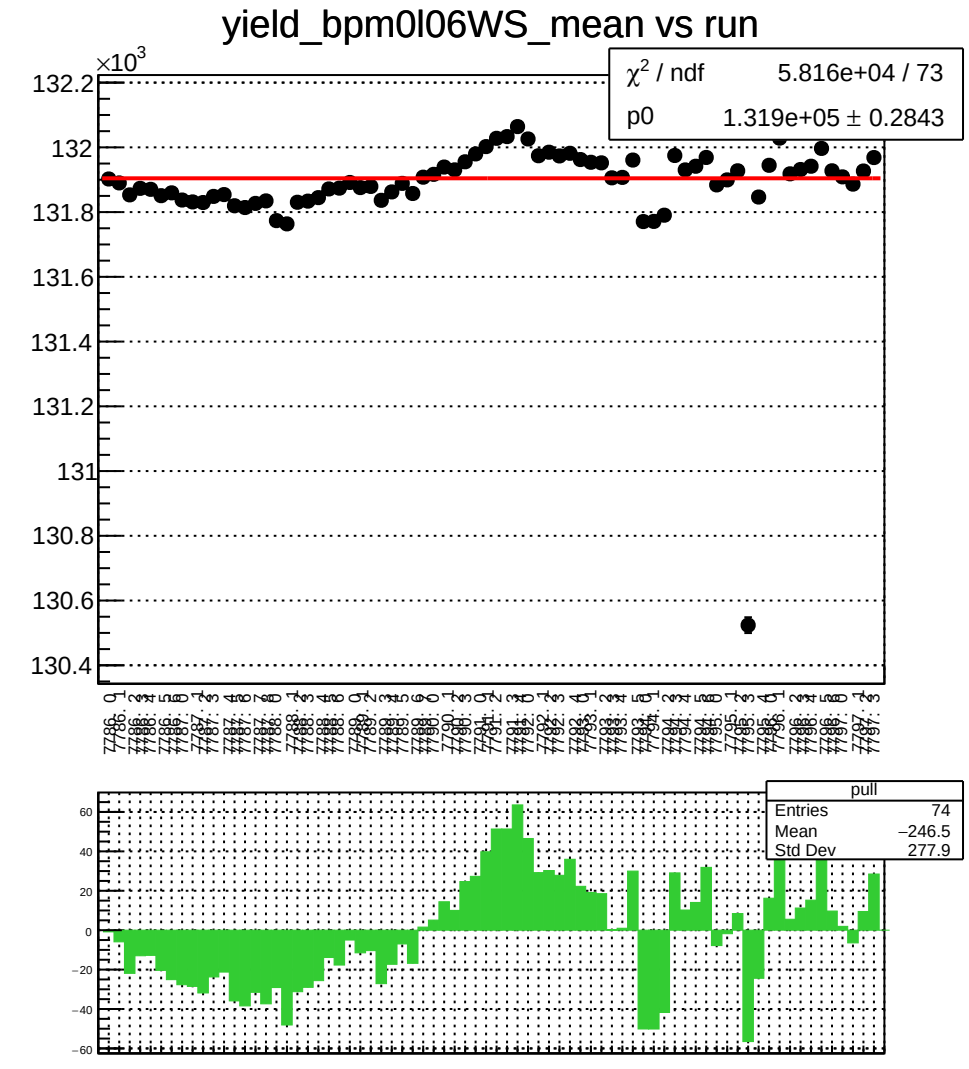

pull1D
Entries 74
Mean 1.82
Std Dev 2.555
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

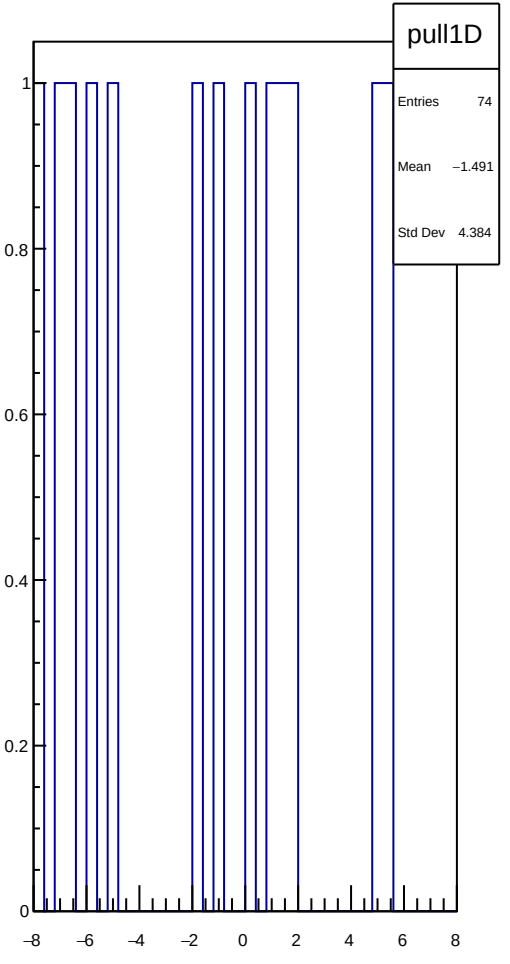

yield_bpm0l04WS_rms vs run
χ² / ndf 3.808e+04 / 73
p0 291.1 ± 0.2461
2500
2000
1500
1000
500

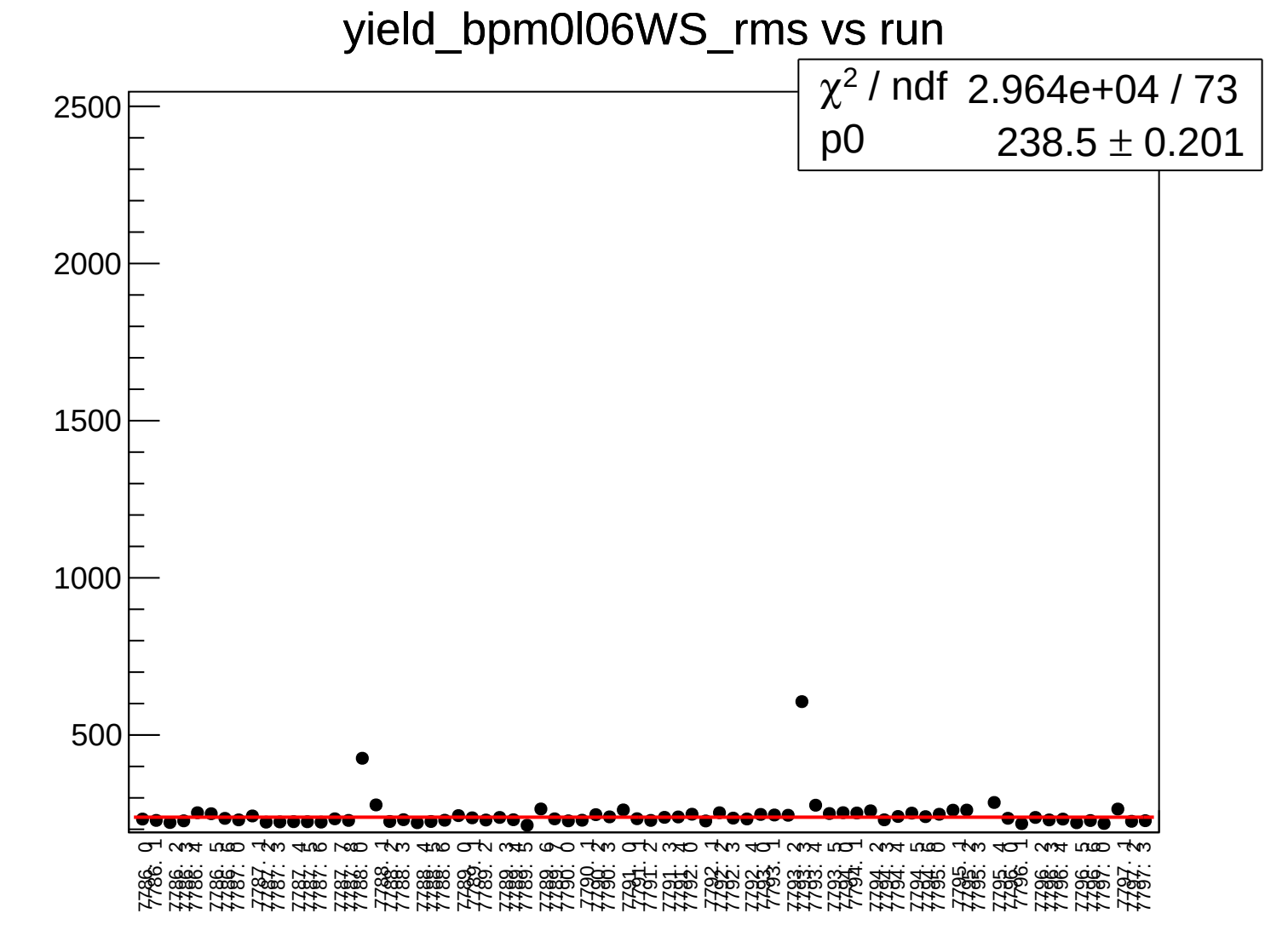

yield_bpm0l05WS_mean vs run
×10^3
χ² / ndf 1.452e+05 / 73
p0 1.382e+05 ± 0.3164
138.5
138
137.5
137
136.5
pull
Entries 74
Mean −275.9
Std Dev 295.1
100
80
60
40
20
0
−20
−40
−60
−80

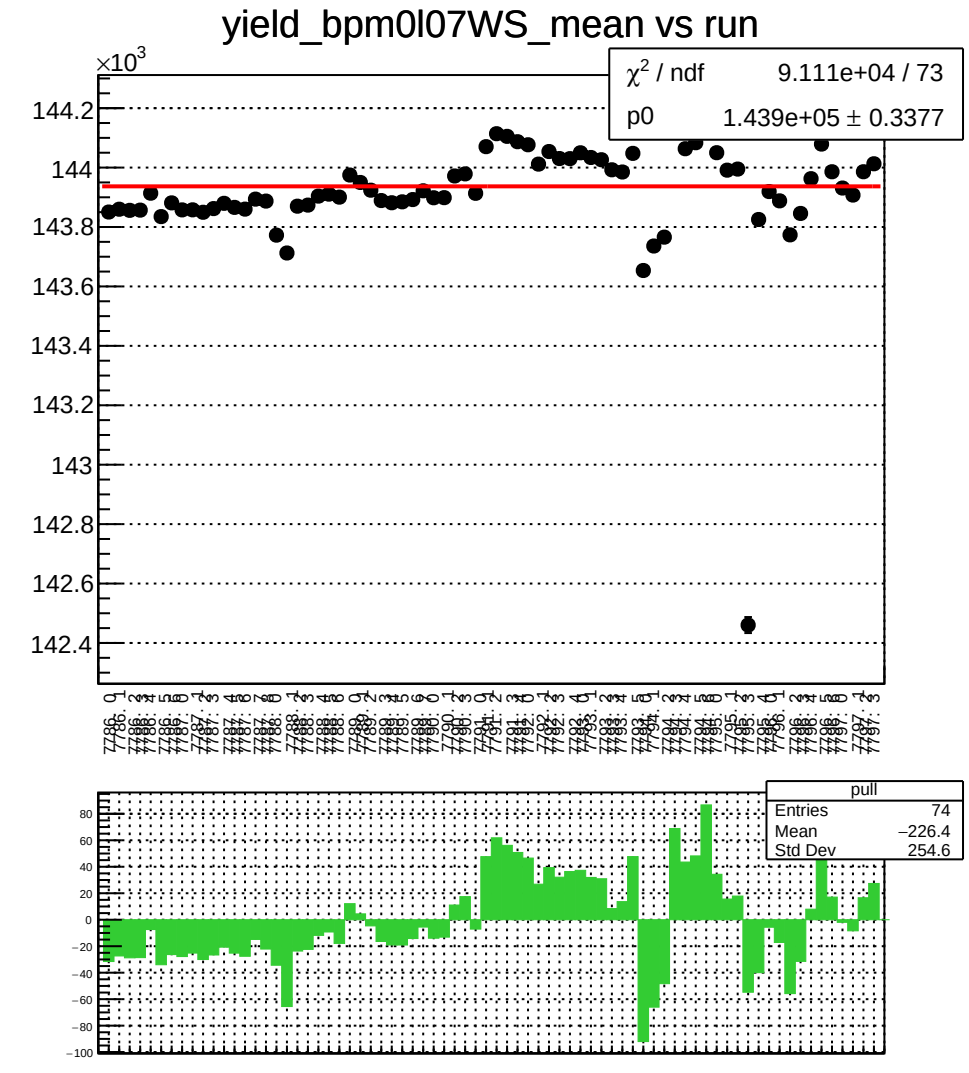

pull1D
Entries 74
Mean −3.018
Std Dev 2.847
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

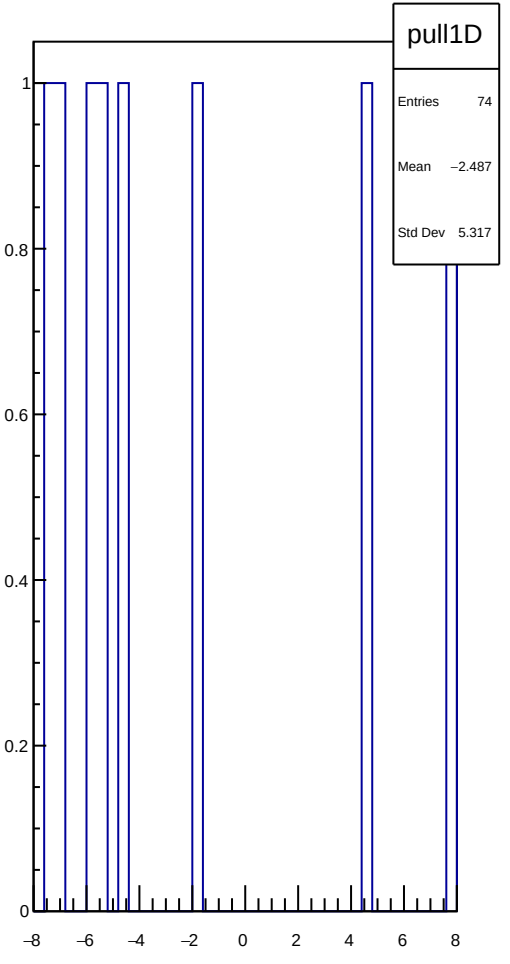

yield_bpm0l05WS_rms vs run
χ² / ndf 2.836e+04 / 73
p0 265.5 ± 0.2237
2500
2000
1500
1000
500

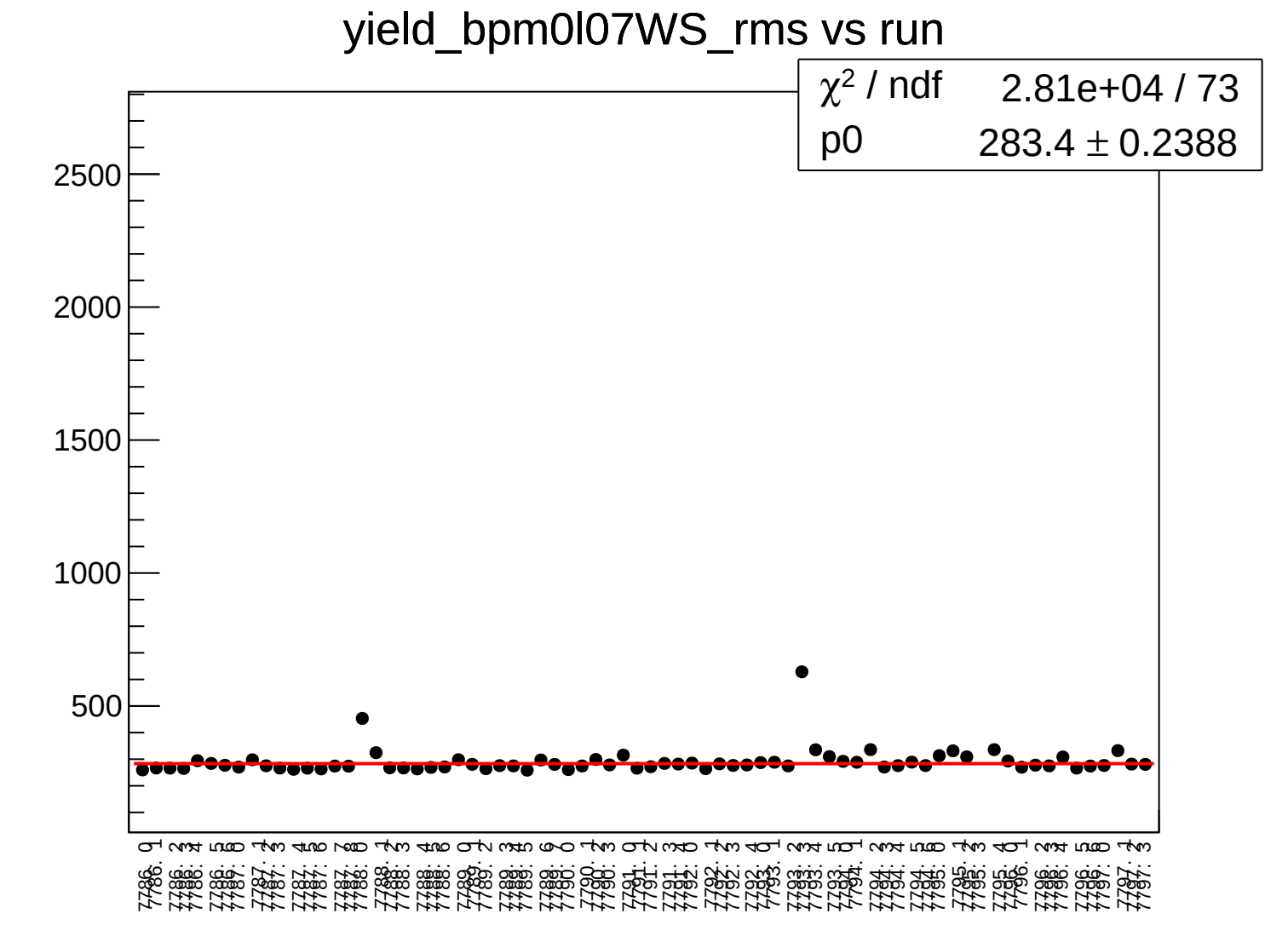

yield_bpm0l06WS_mean vs run
×10^3
χ² / ndf 5.816e+04 / 73
p0 1.319e+05 ± 0.2843
132.2
132
131.8
131.6
131.4
131.2
131
130.8
130.6
130.4
pull
Entries 74
Mean −246.5
Std Dev 277.9
60
40
20
0
−20
−40
−60

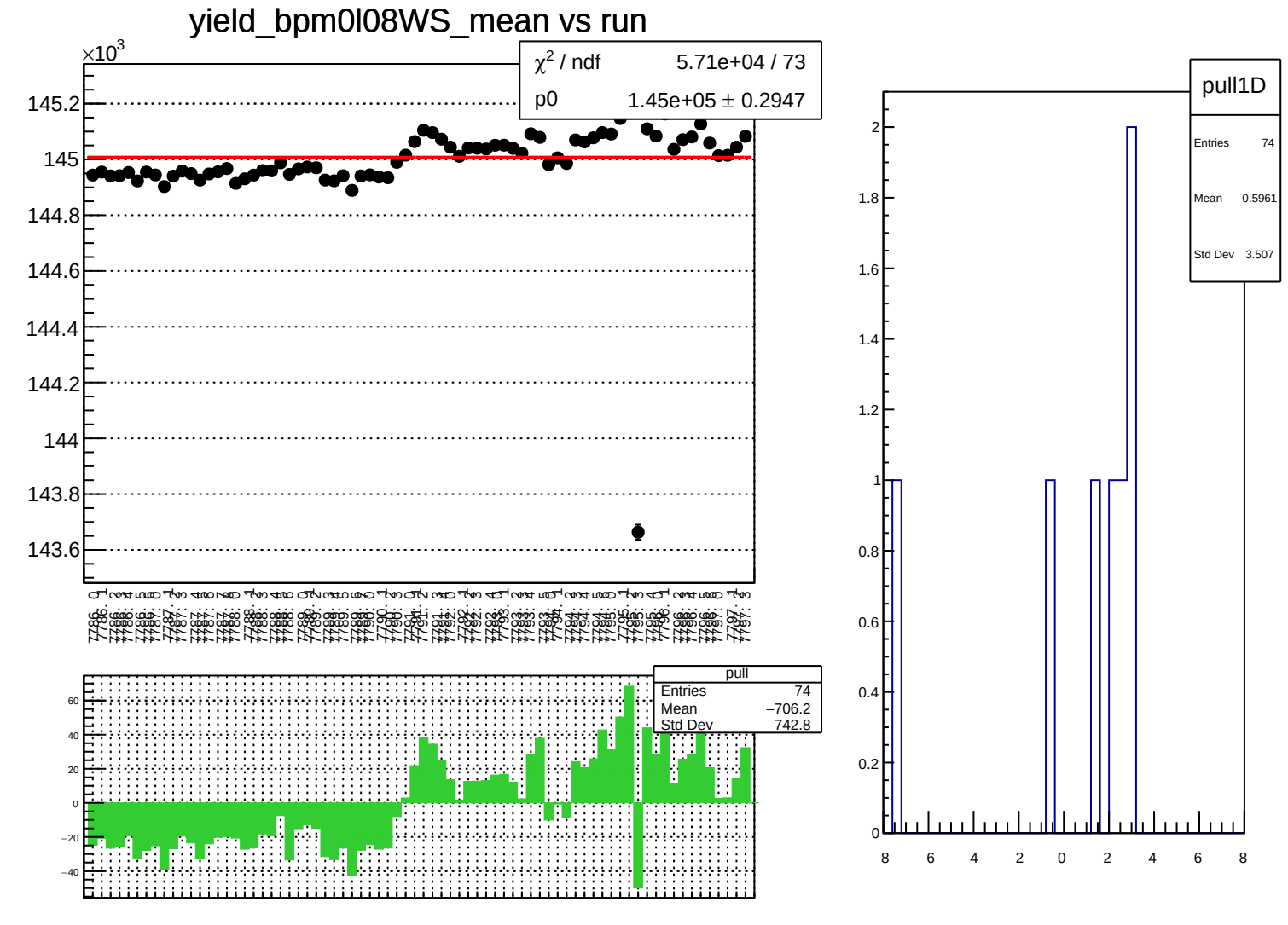

pull1D
Entries 74
Mean −1.491
Std Dev 4.384
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

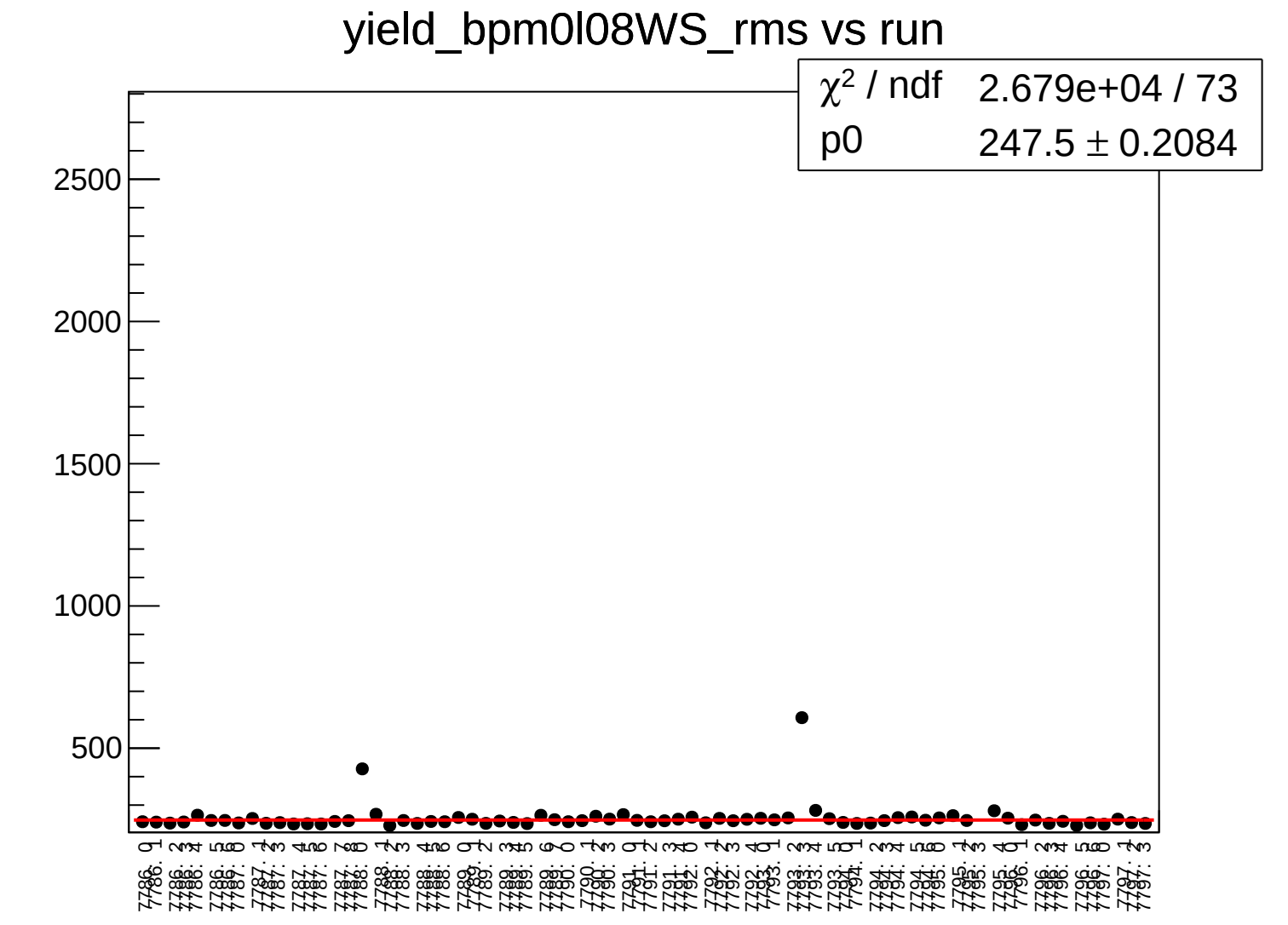

yield_bpm0l06WS_rms vs run
χ² / ndf 2.964e+04 / 73
p0 238.5 ± 0.201
2500
2000
1500
1000
500

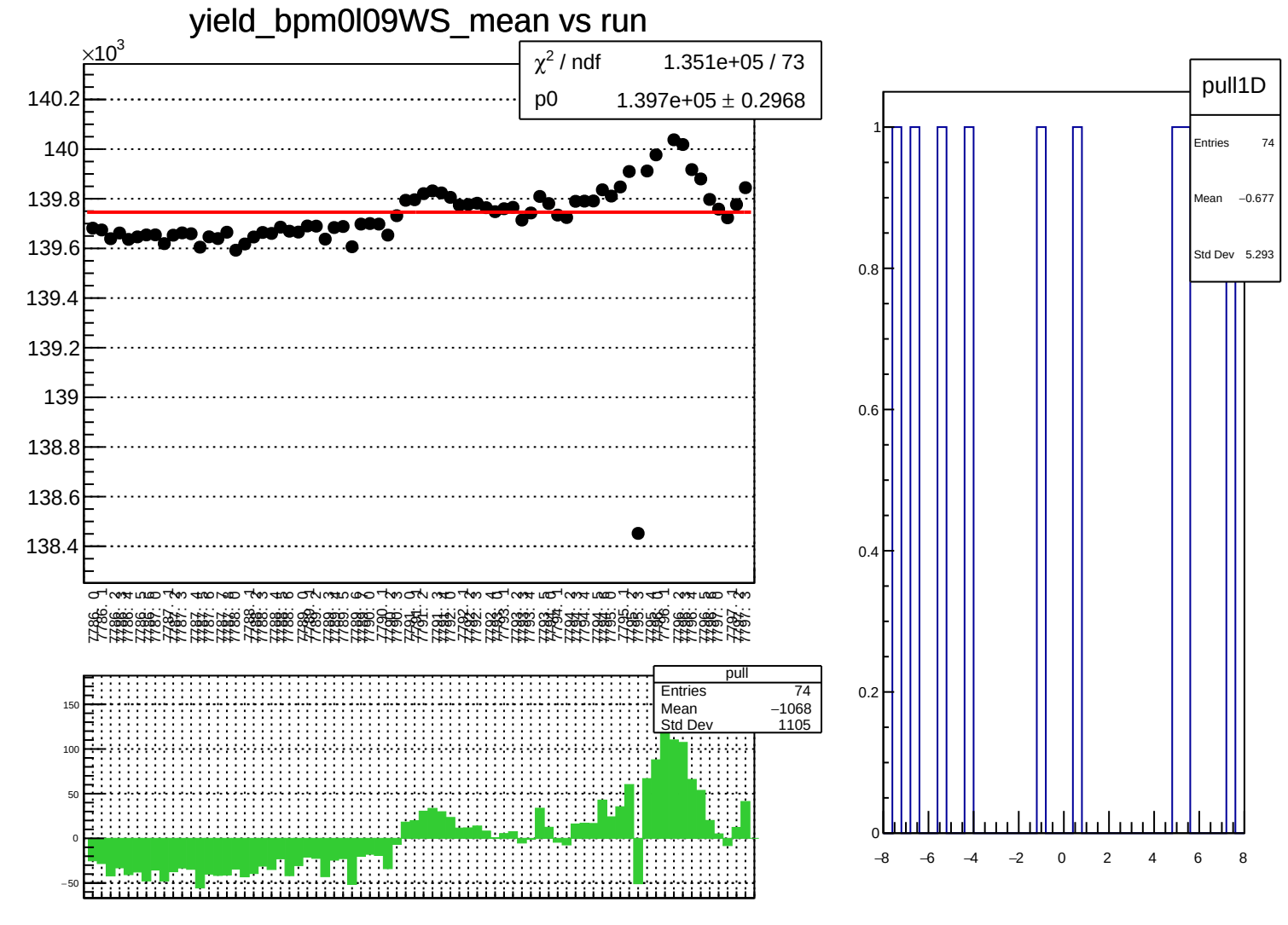

yield_bpm0l07WS_mean vs run
×10^3
χ² / ndf 9.111e+04 / 73
p0 1.439e+05 ± 0.3377
144.2
144
143.8
143.6
143.4
143.2
143
142.8
142.6
142.4
pull
Entries 74
Mean −226.4
Std Dev 254.6
80
60
40
20
0
−20
−40
−60
−80
−100

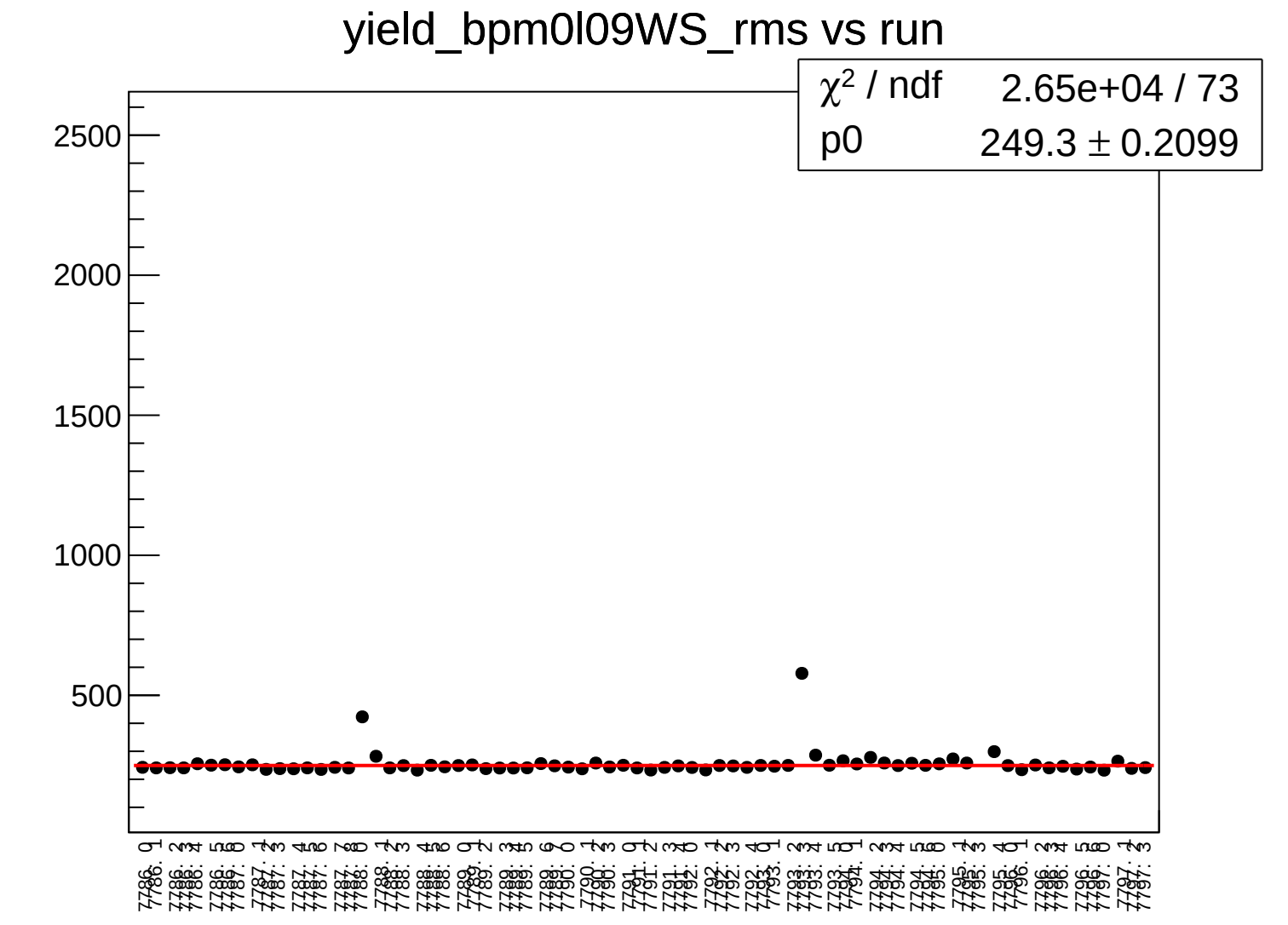

pull1D
Entries 74
Mean −2.487
Std Dev 5.317
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

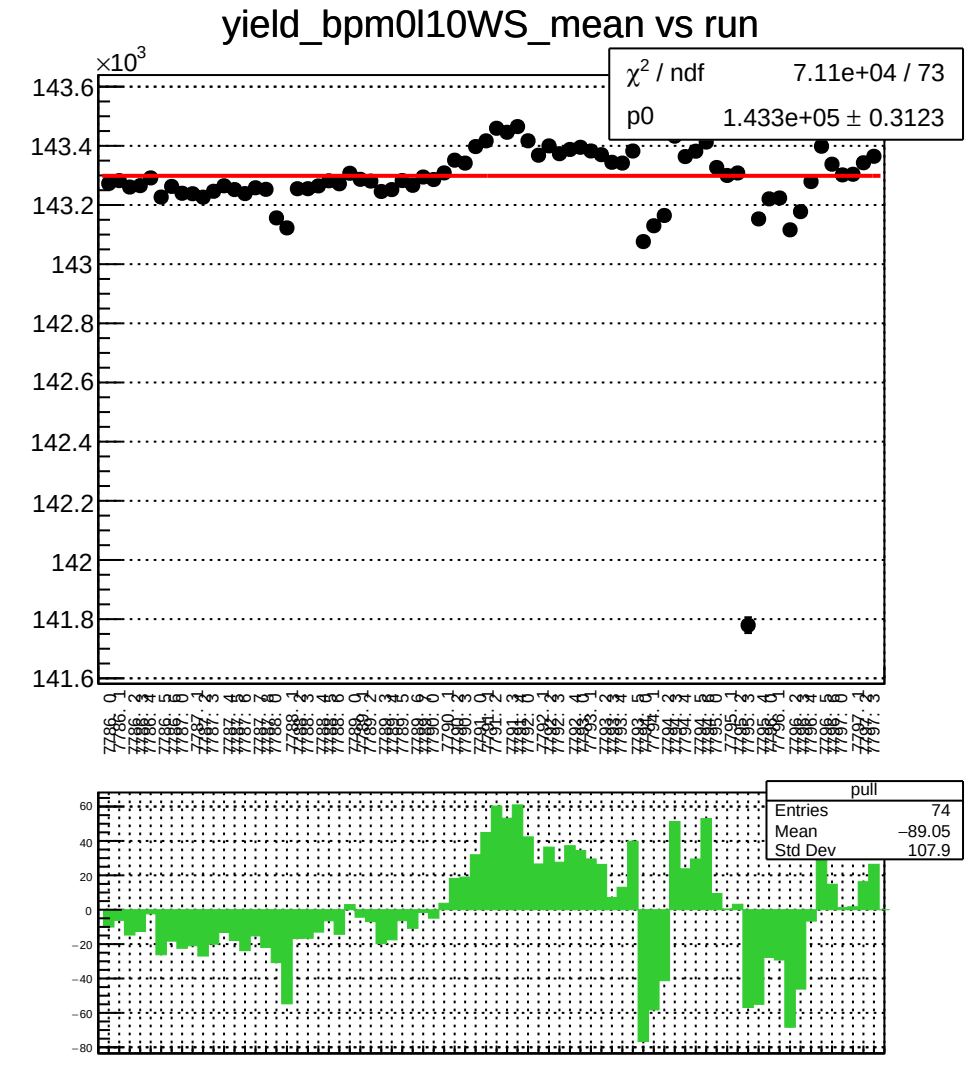

yield_bpm0l07WS_rms vs run
χ² / ndf 2.81e+04 / 73
p0 283.4 ± 0.2388
2500
2000
1500
1000
500

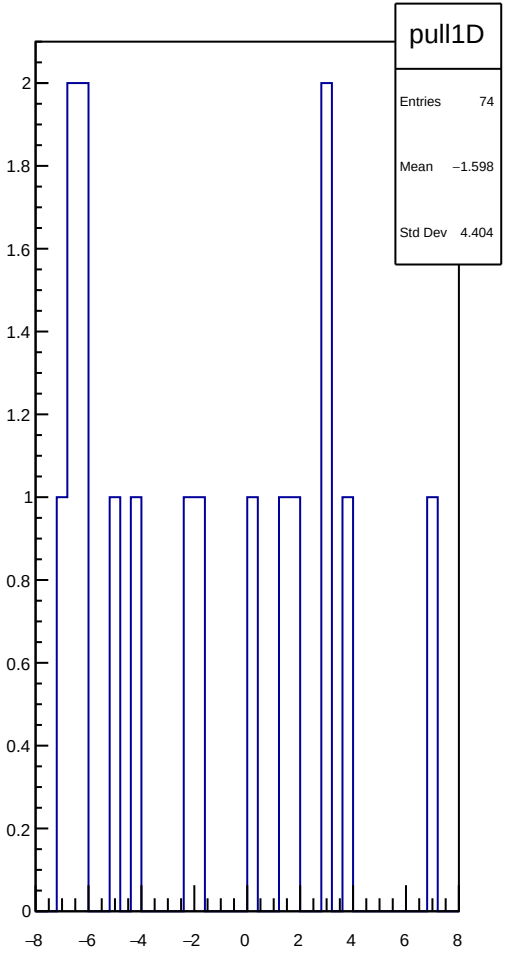

yield_bpm0l08WS_mean vs run
×10^3
χ^2 / ndf 5.71e+04 / 73
p0 1.45e+05 ± 0.2947
145.2
145
144.8
144.6
144.4
144.2
144
143.8
143.6
pull
Entries 74
Mean −706.2
Std Dev 742.8
60
40
20
0
−20
−40
pull1D
Entries 74
Mean 0.5961
Std Dev 3.507
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

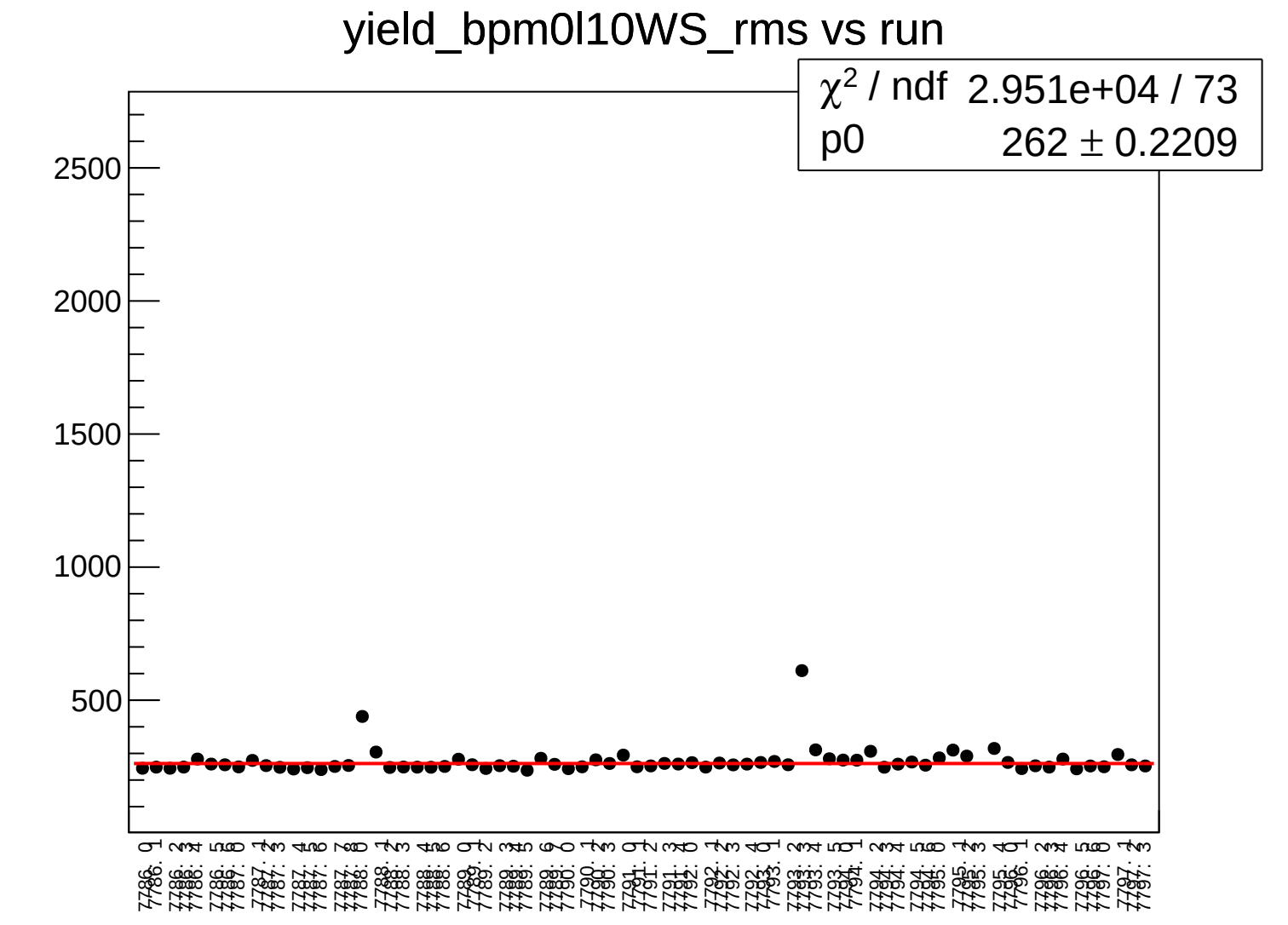

yield_bpm0l08WS_rms vs run
χ² / ndf 2.679e+04 / 73
p0 247.5 ± 0.2084
2500
2000
1500
1000
500

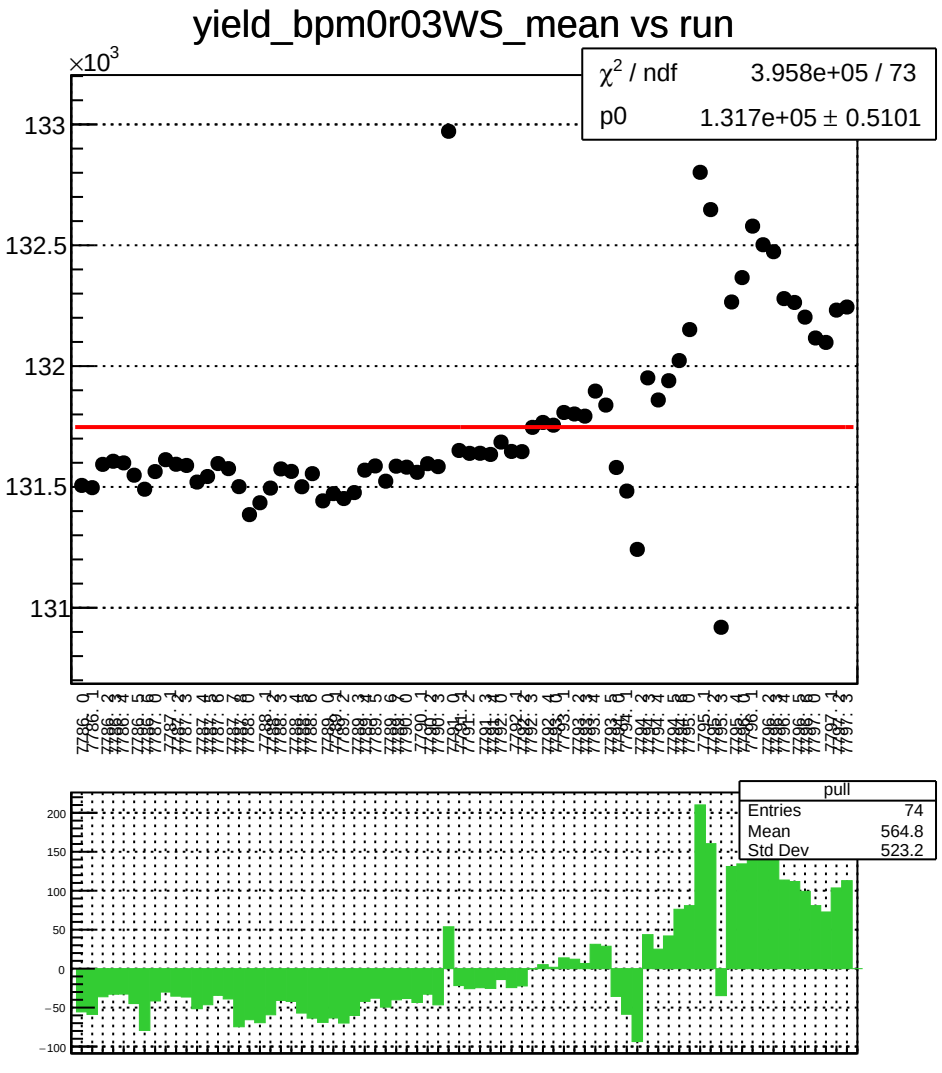

yield_bpm0l09WS_mean vs run
×10^3
χ² / ndf 1.351e+05 / 73
p0 1.397e+05 ± 0.2968
140.2
140
139.8
139.6
139.4
139.2
139
138.8
138.6
138.4
pull
Entries 74
Mean −1068
Std Dev 1105
150
100
50
0
−50
pull1D
Entries 74
Mean −0.677
Std Dev 5.293
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

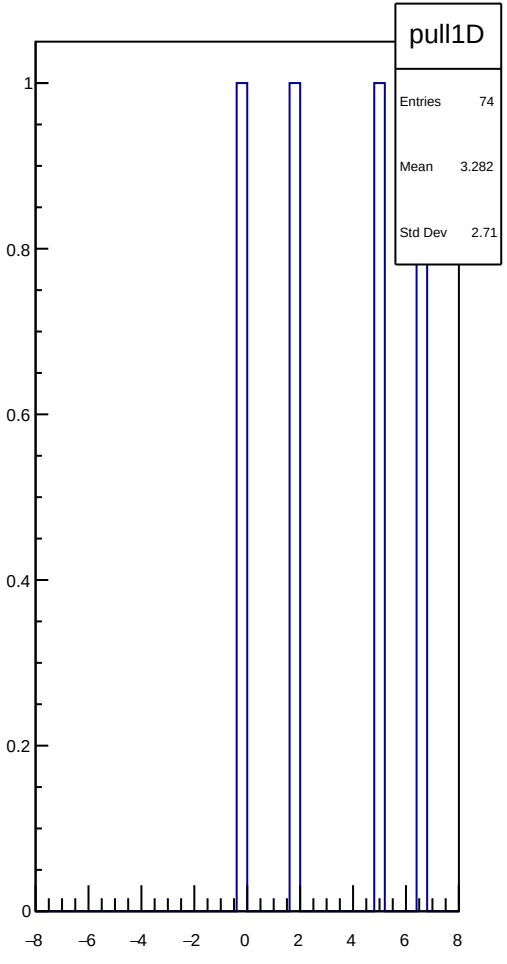

yield_bpm0l09WS_rms vs run
χ² / ndf 2.65e+04 / 73
p0 249.3 ± 0.2099
2500
2000
1500
1000
500

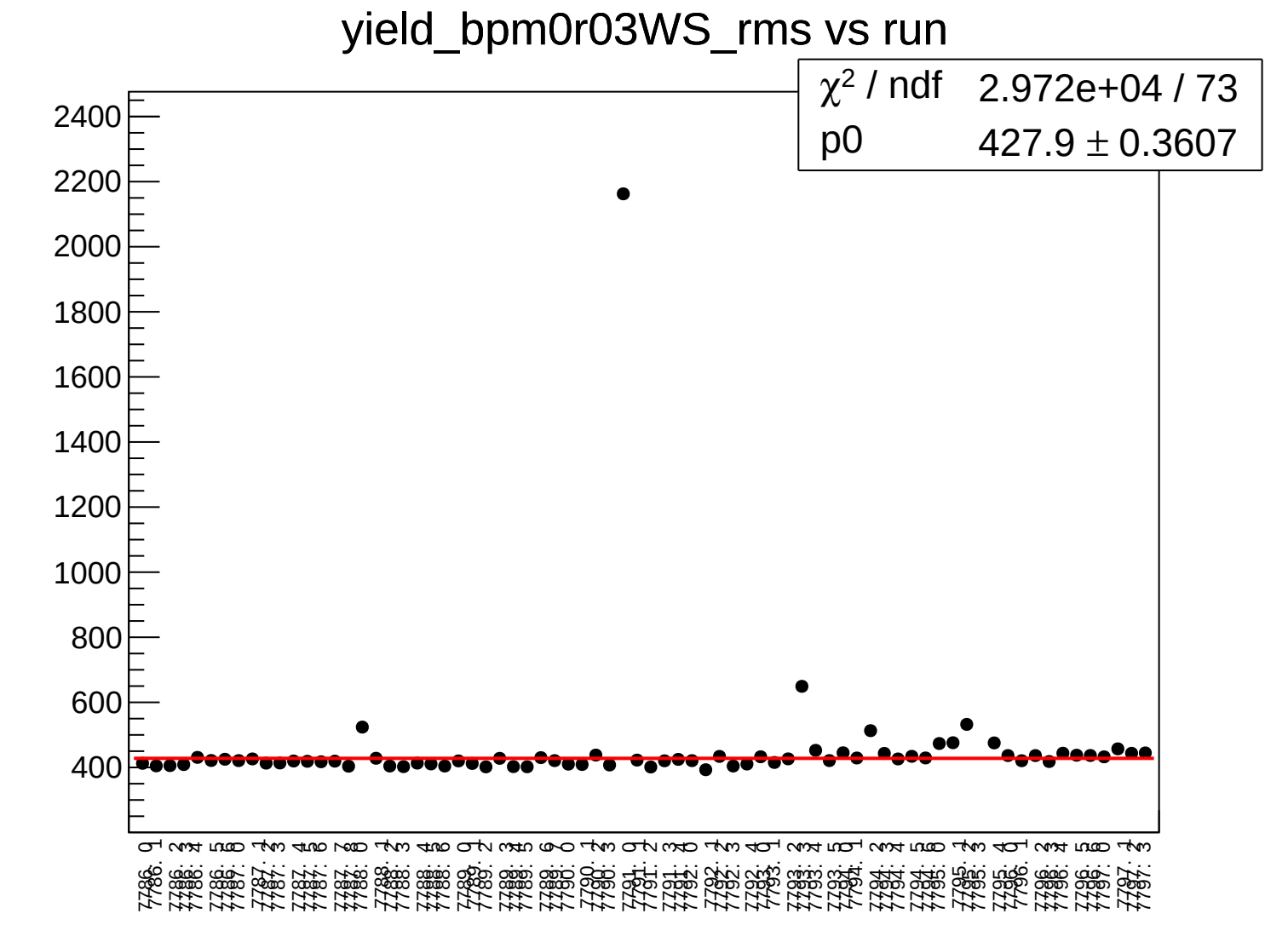

yield_bpm0l10WS_mean vs run
×10^3
χ² / ndf 7.11e+04 / 73
p0 1.433e+05 ± 0.3123
143.6
143.4
143.2
143
142.8
142.6
142.4
142.2
142
141.8
141.6
pull
Entries 74
Mean −89.05
Std Dev 107.9
60
40
20
0
−20
−40
−60
−80

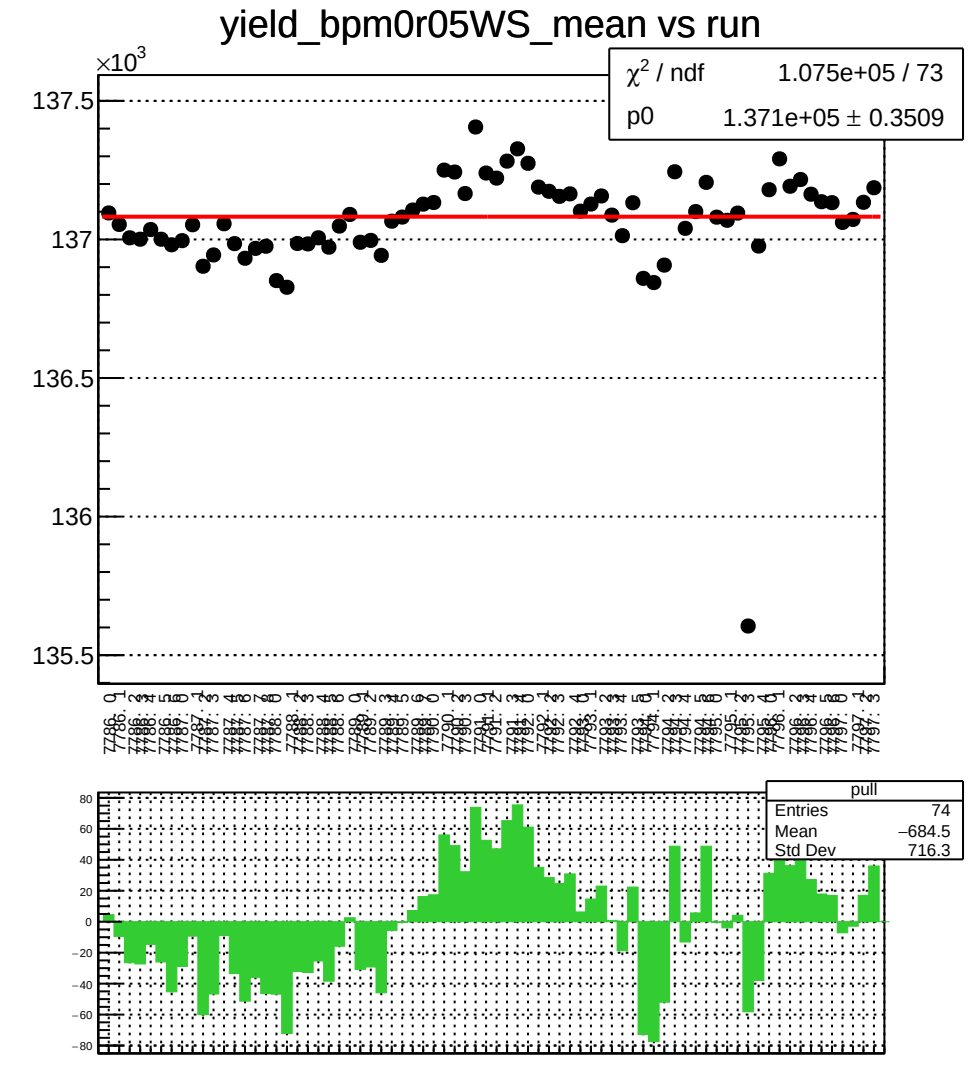

pull1D
Entries 74
Mean −1.598
Std Dev 4.404
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

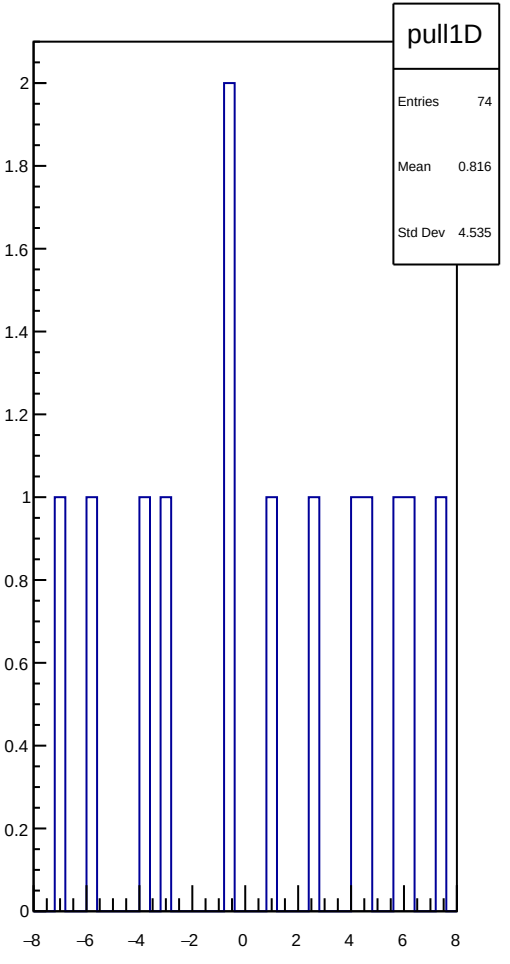

yield_bpm0l10WS_rms vs run
χ² / ndf 2.951e+04 / 73
p0 262 ± 0.2209
2500
2000
1500
1000
500

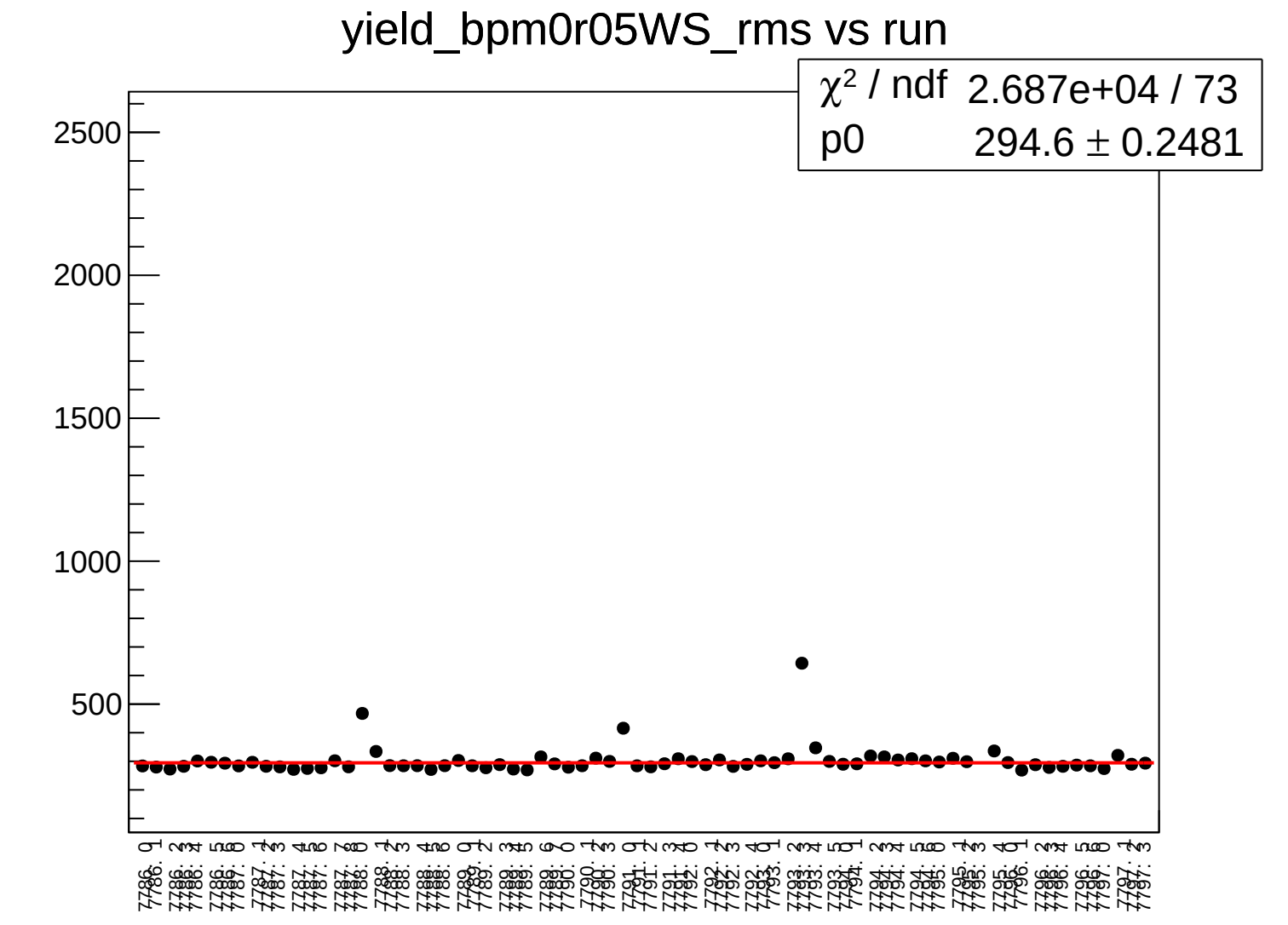

yield_bpm0r03WS_mean vs run
×10^3
χ² / ndf 3.958e+05 / 73
p0 1.317e+05 ± 0.5101
133
132.5
132
131.5
131
pull
Entries 74
Mean 564.8
Std Dev 523.2
200
150
100
50
0
−50
−100

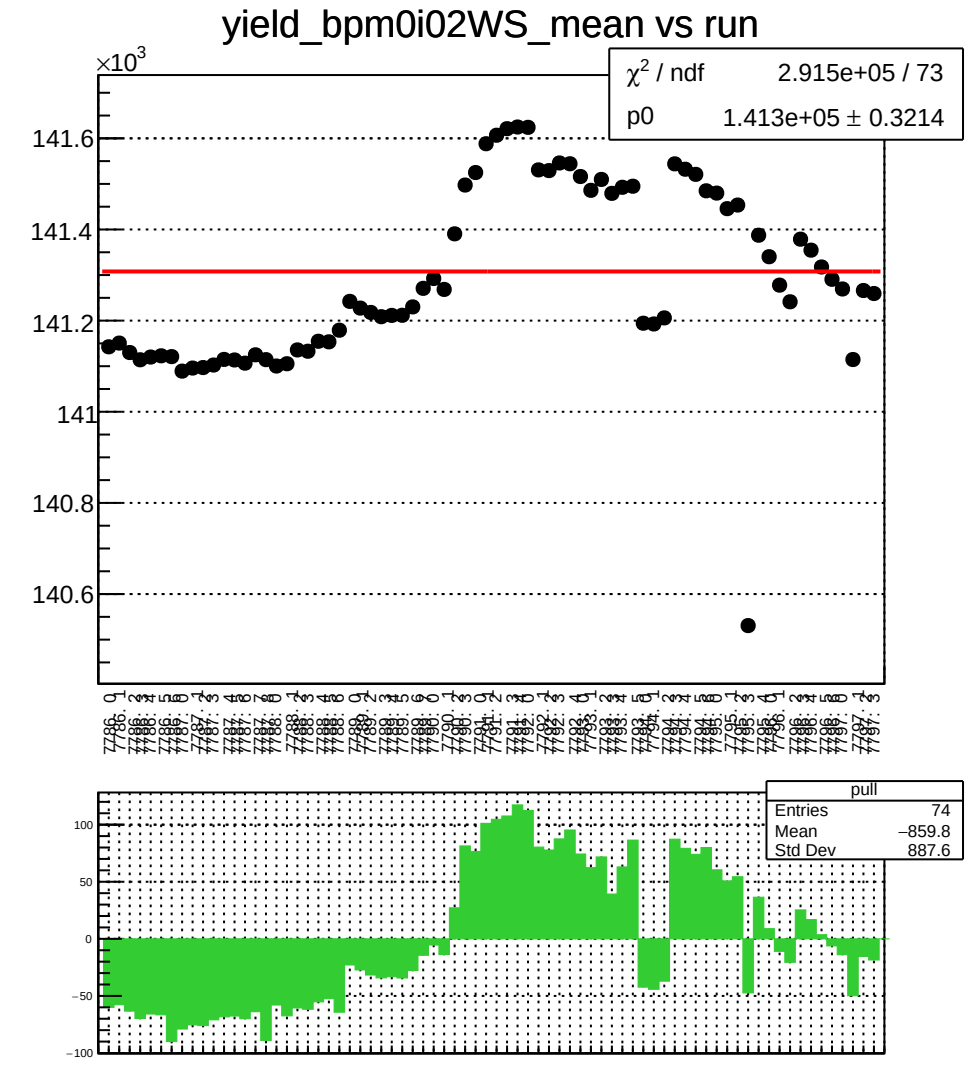

pull1D
Entries 74
Mean 3.282
Std Dev 2.71
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

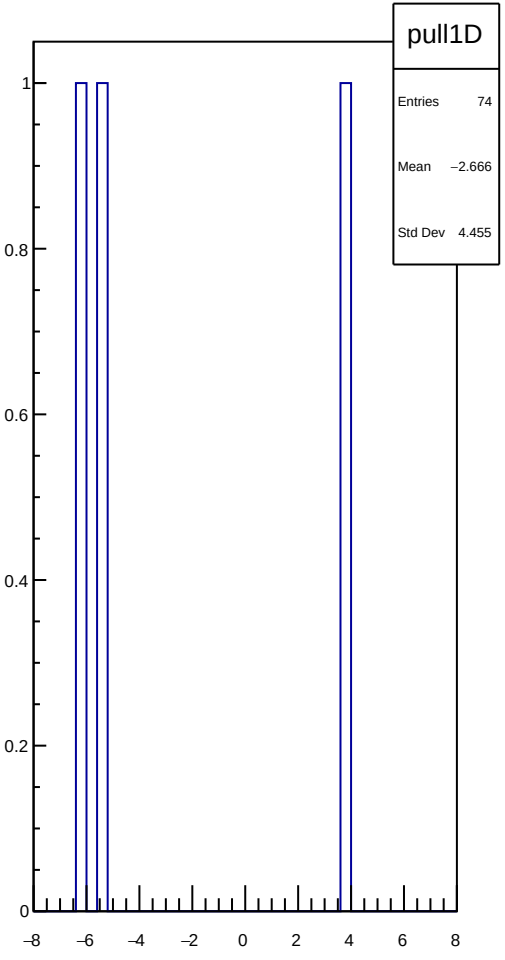

yield_bpm0r03WS_rms vs run
χ² / ndf 2.972e+04 / 73
p0 427.9 ± 0.3607
2400
2200
2000
1800
1600
1400
1200
1000
800
600
400

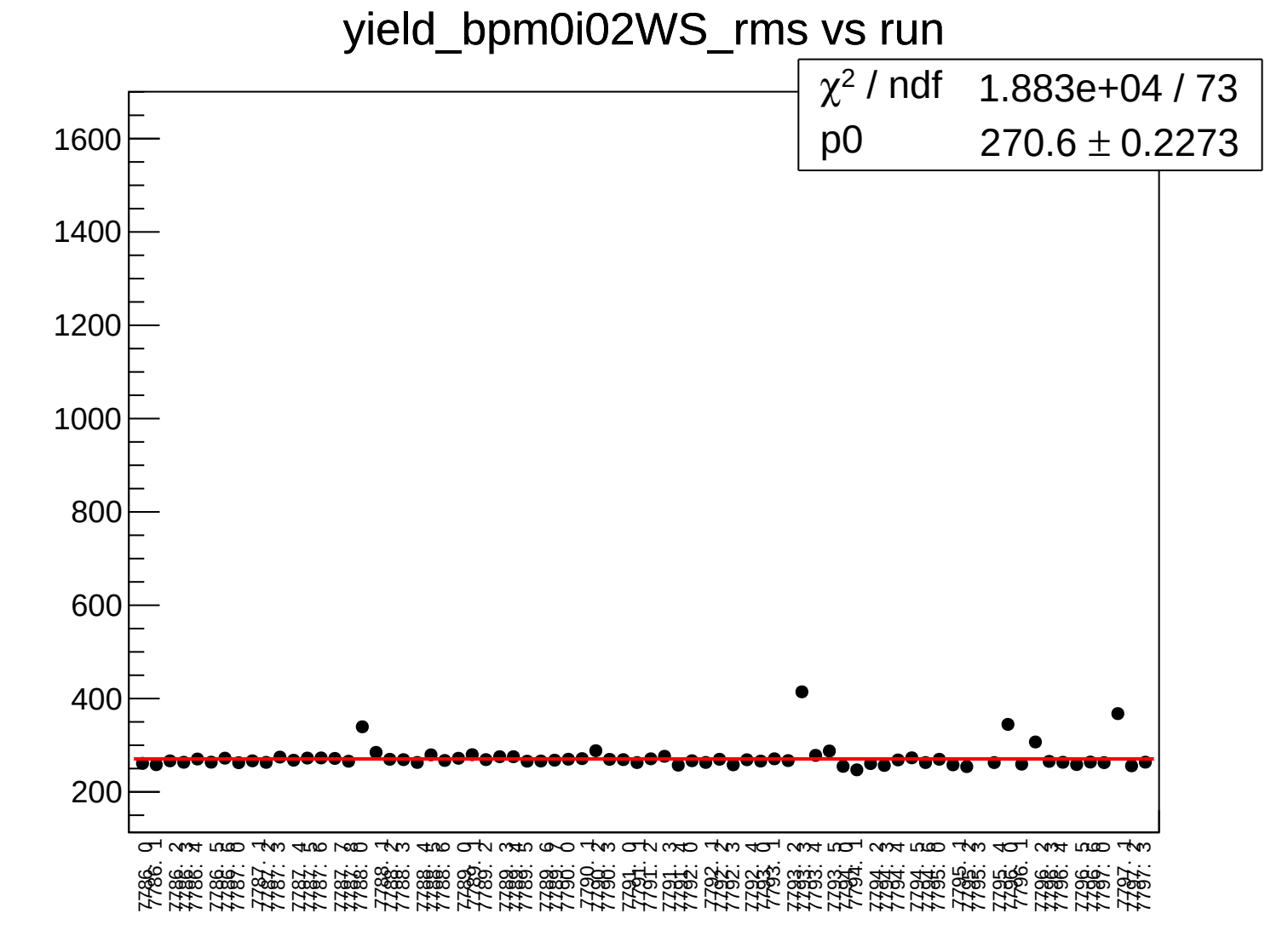

yield_bpm0r05WS_mean vs run
×10^3
χ² / ndf 1.075e+05 / 73
p0 1.371e+05 ± 0.3509
137.5
137
136.5
136
135.5
pull
Entries 74
Mean −684.5
Std Dev 716.3
80
60
40
20
0
−20
−40
−60
−80

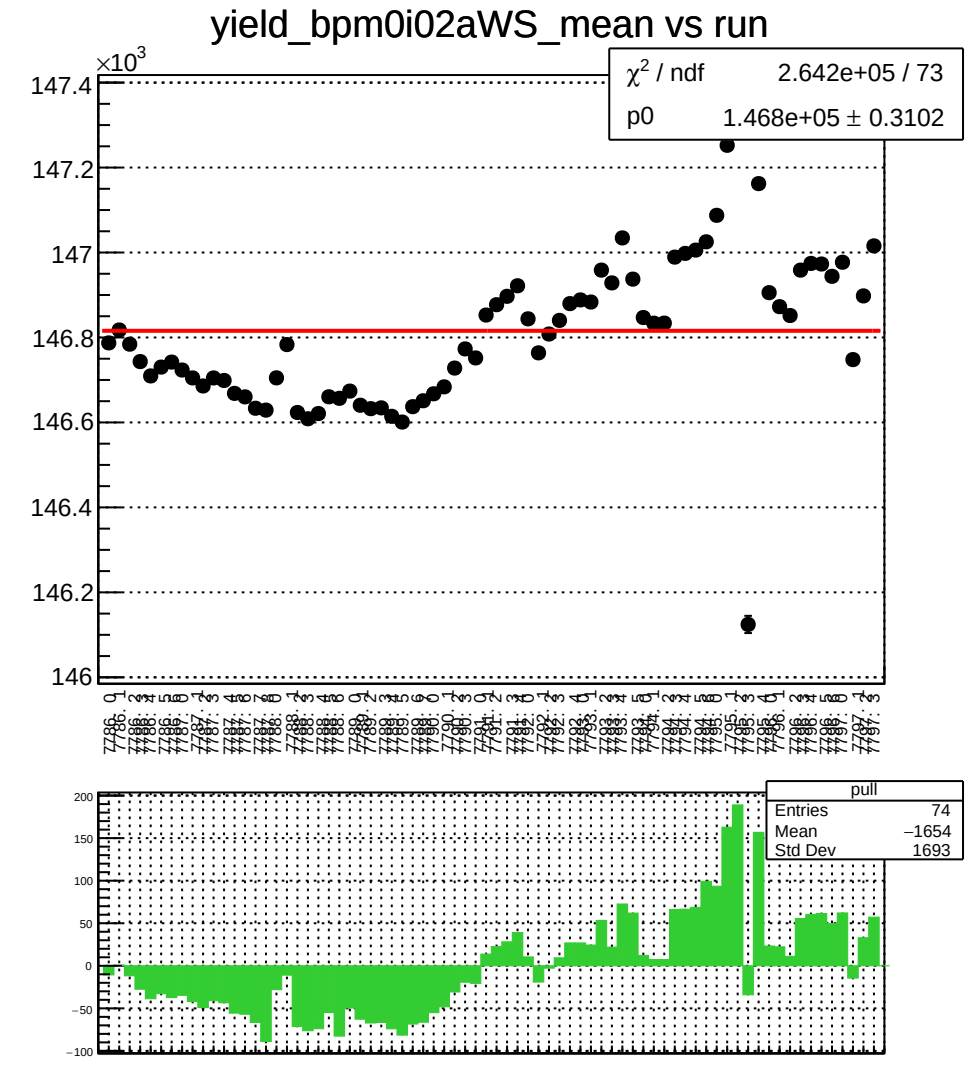

pull1D
Entries 74
Mean 0.816
Std Dev 4.535
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

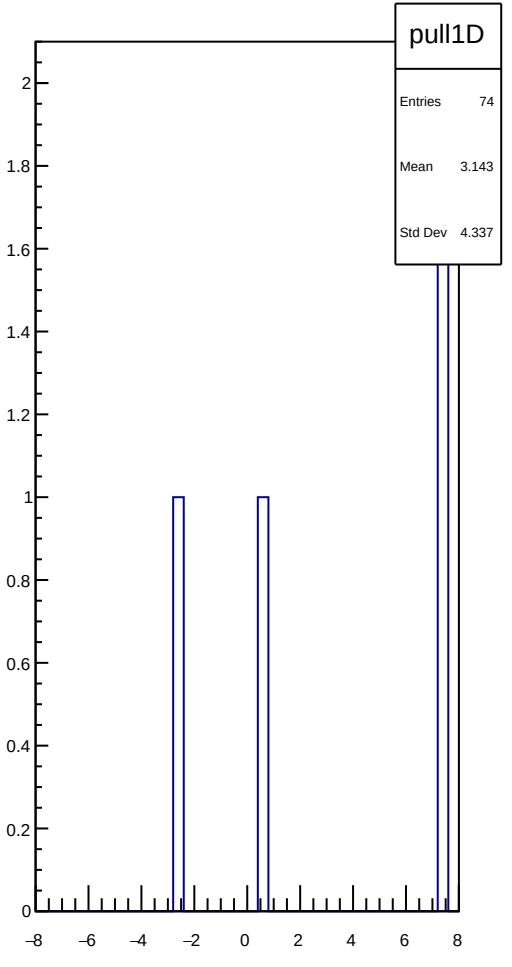

yield_bpm0r05WS_rms vs run
χ² / ndf 2.687e+04 / 73
p0 294.6 ± 0.2481
2500
2000
1500
1000
500

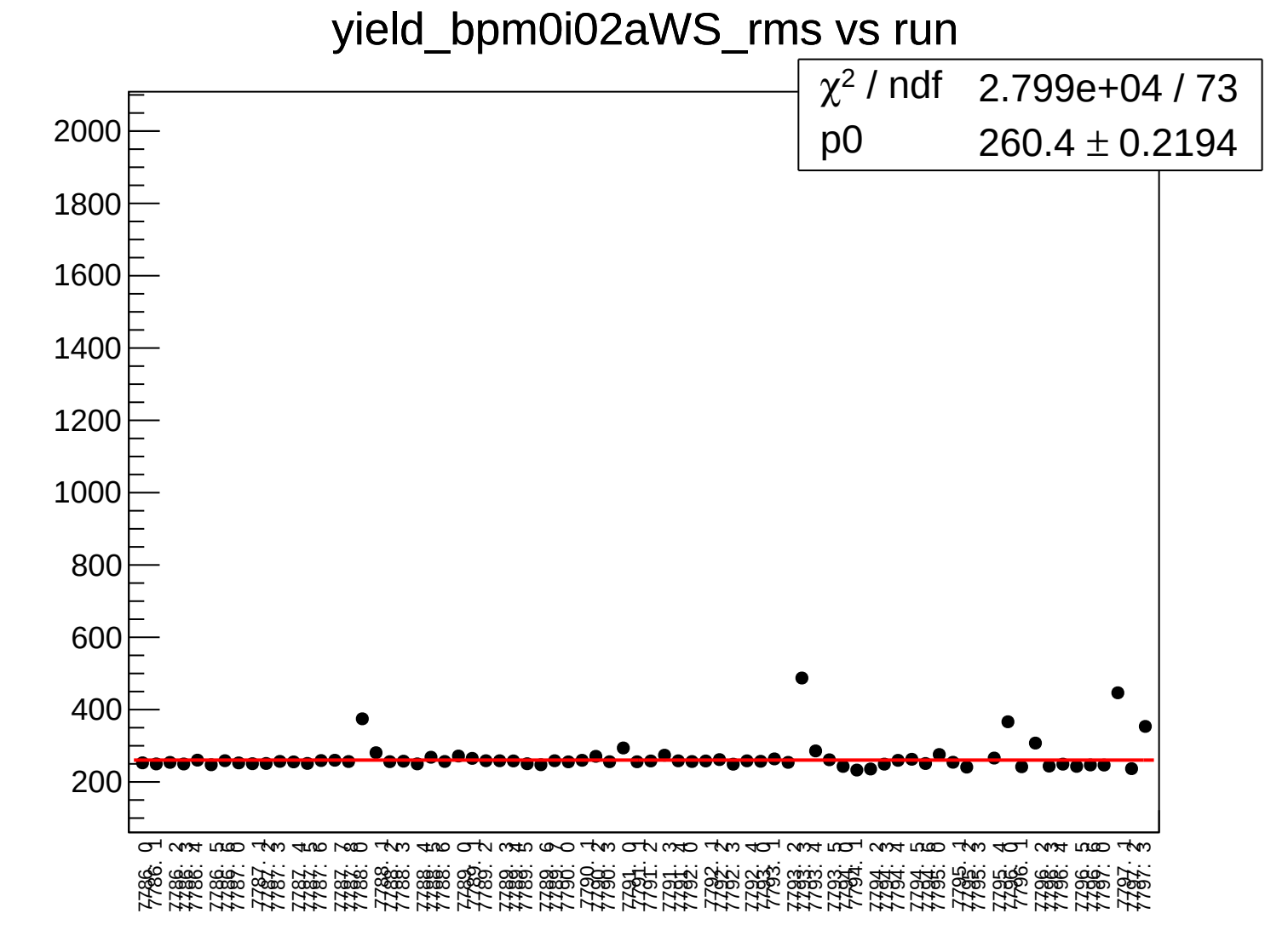

yield_bpm0i02WS_mean vs run
×10^3
χ² / ndf 2.915e+05 / 73
p0 1.413e+05 ± 0.3214
141.6
141.4
141.2
141
140.8
140.6
pull
Entries 74
Mean −859.8
Std Dev 887.6
100
50
0
−50
−100

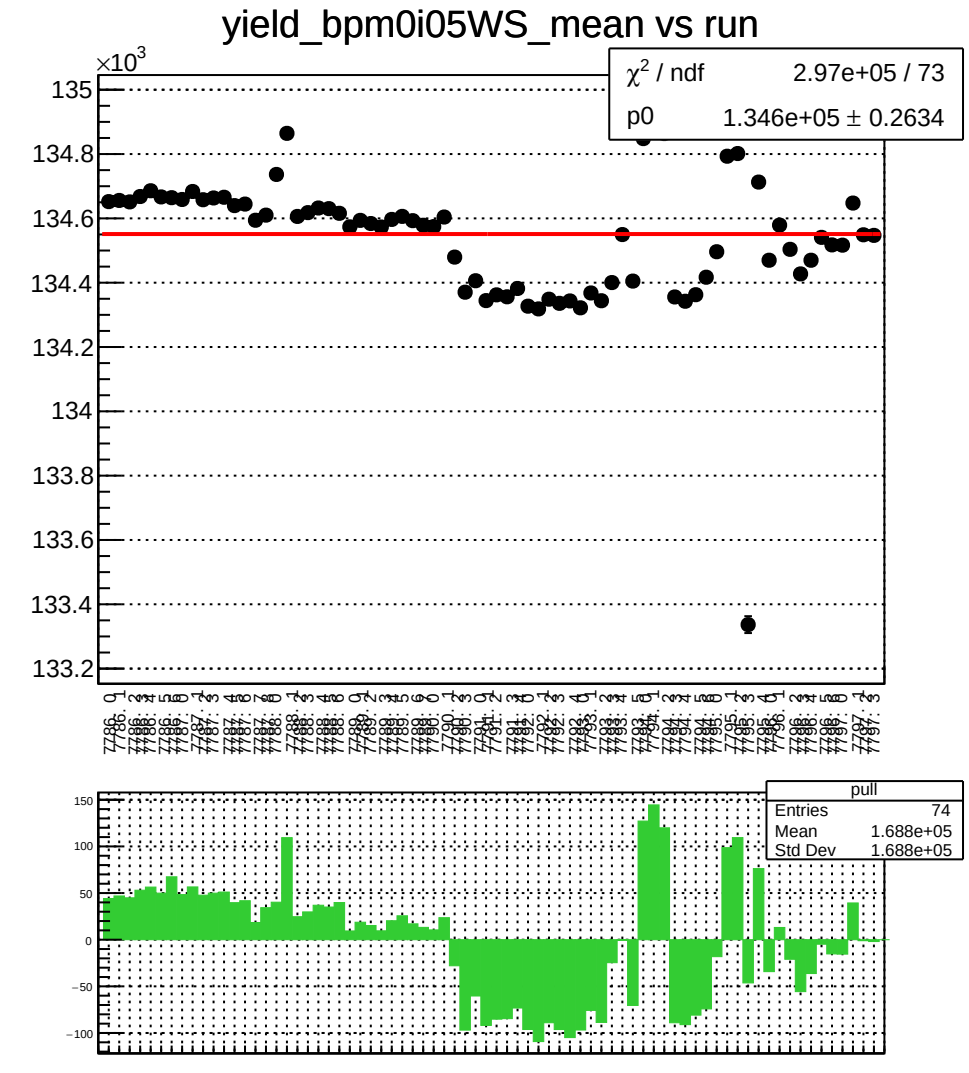

pull1D
Entries 74
Mean −2.666
Std Dev 4.455
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

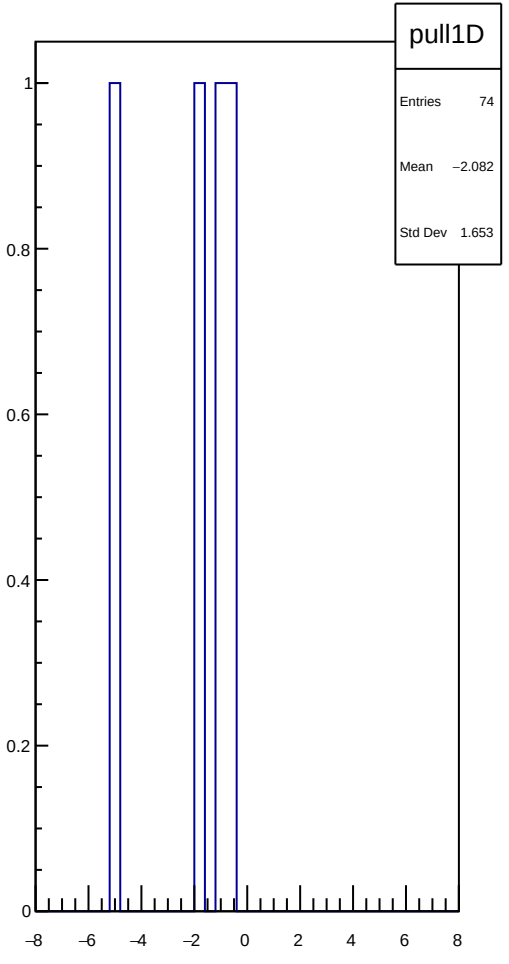

yield_bpm0i02WS_rms vs run
χ² / ndf 1.883e+04 / 73
p0 270.6 ± 0.2273
1600
1400
1200
1000
800
600
400
200

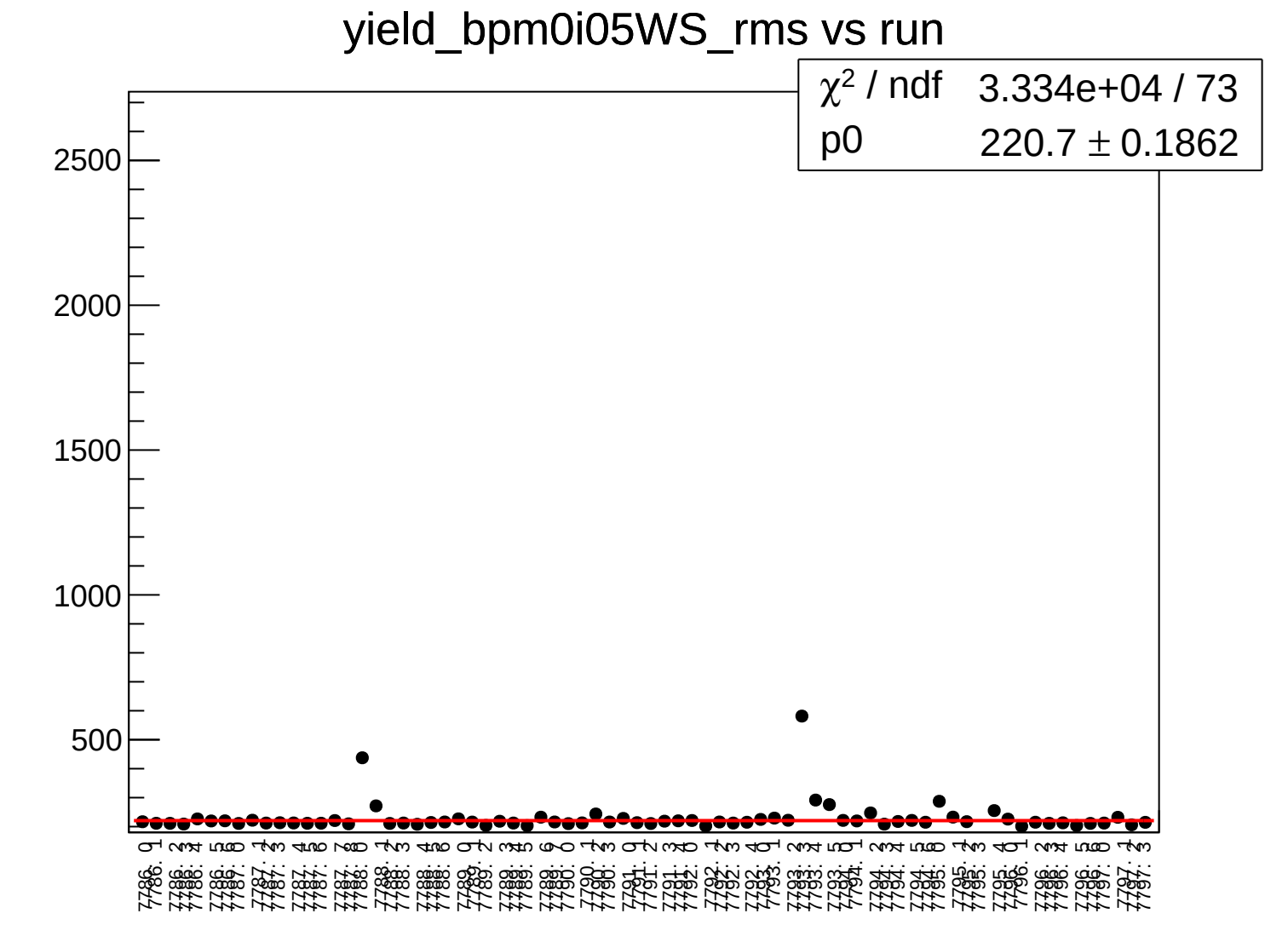

yield_bpm0i02aWS_mean vs run
×10^3
χ² / ndf 2.642e+05 / 73
p0 1.468e+05 ± 0.3102
147.4
147.2
147
146.8
146.6
146.4
146.2
146
pull
Entries 74
Mean −1654
Std Dev 1693
200
150
100
50
0
−50
−100

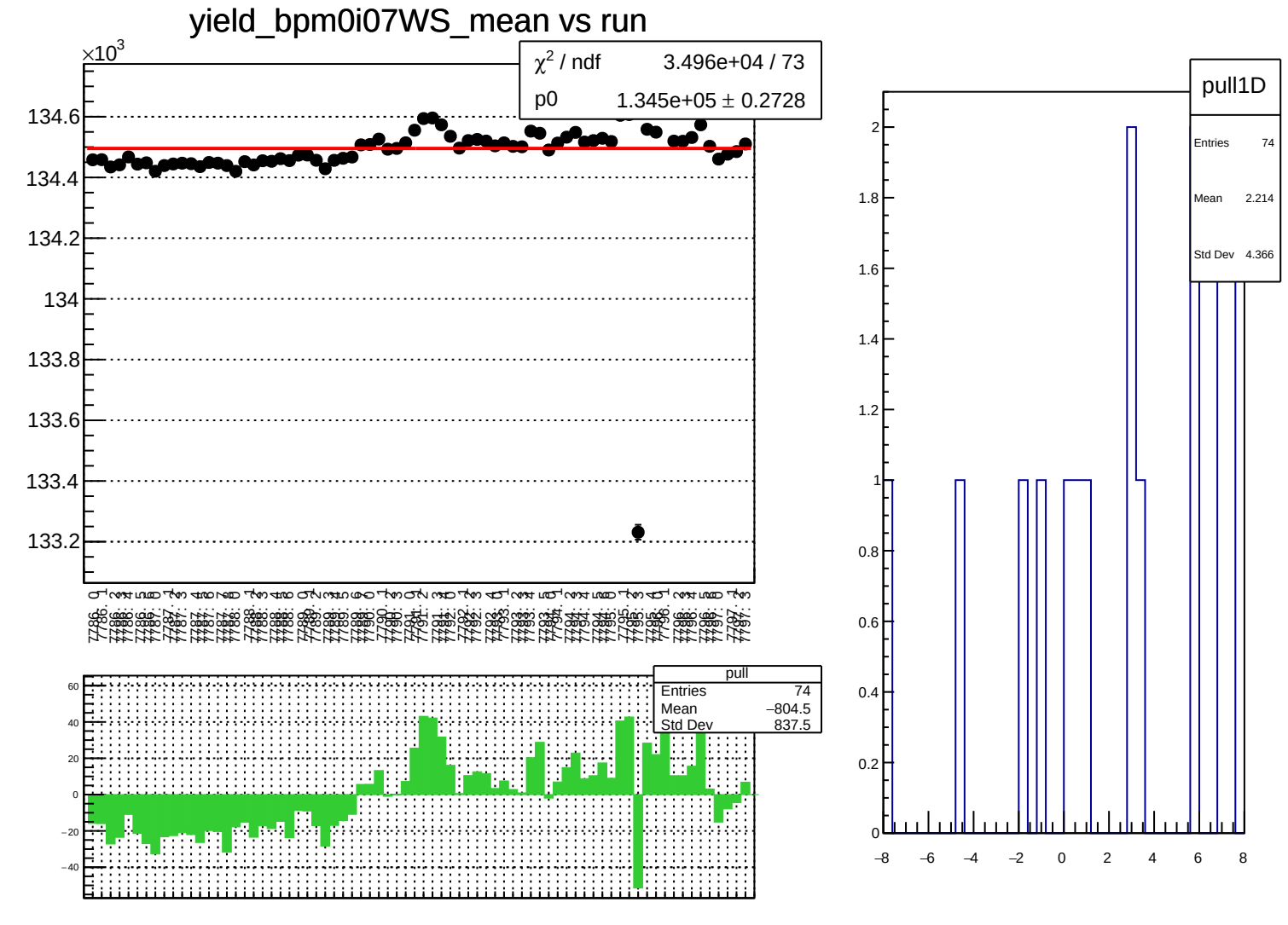

pull1D
Entries 74
Mean 3.143
Std Dev 4.337
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

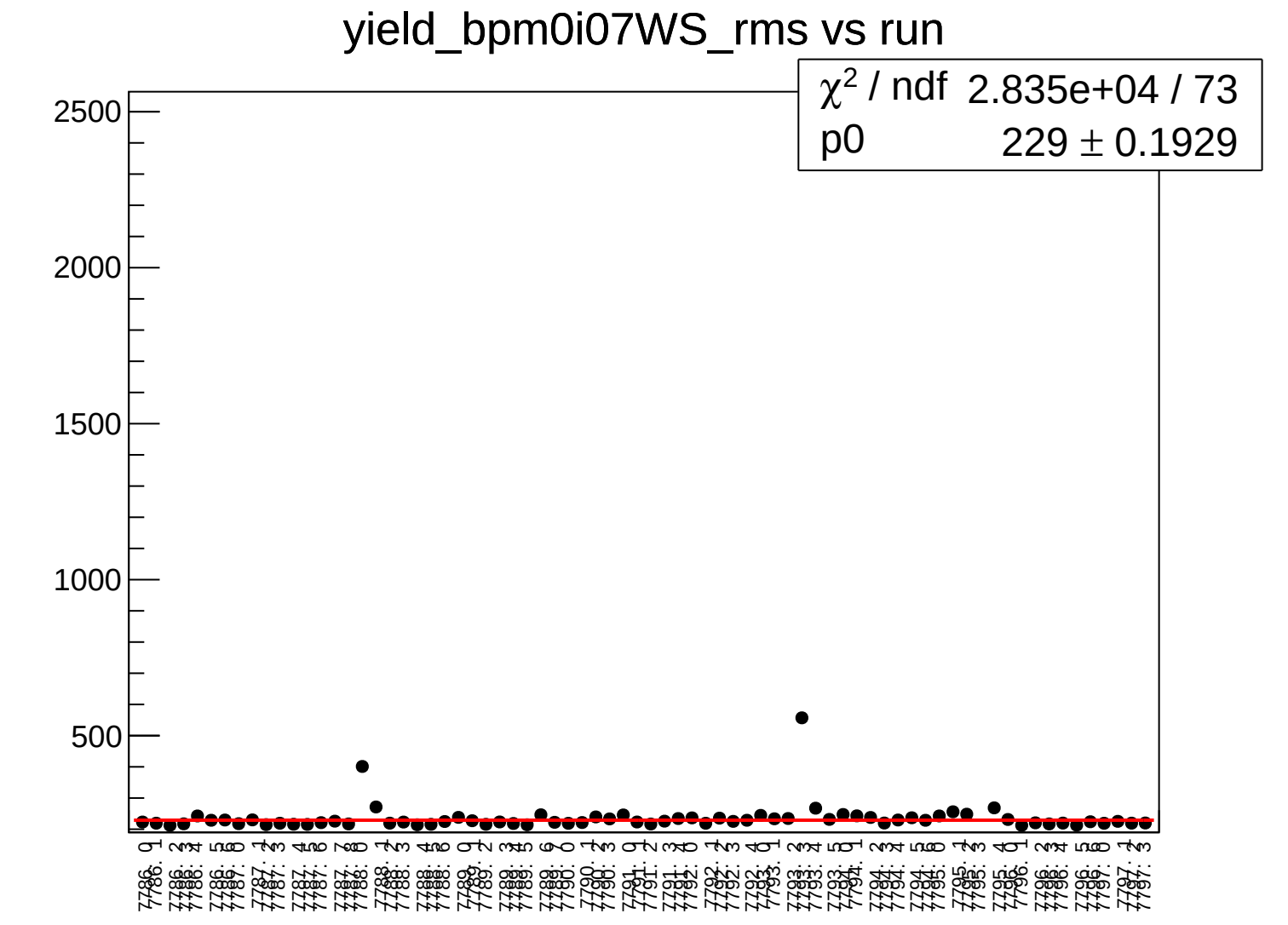

yield_bpm0i02aWS_rms vs run
χ² / ndf 2.799e+04 / 73
p0 260.4 ± 0.2194
2000
1800
1600
1400
1200
1000
800
600
400
200

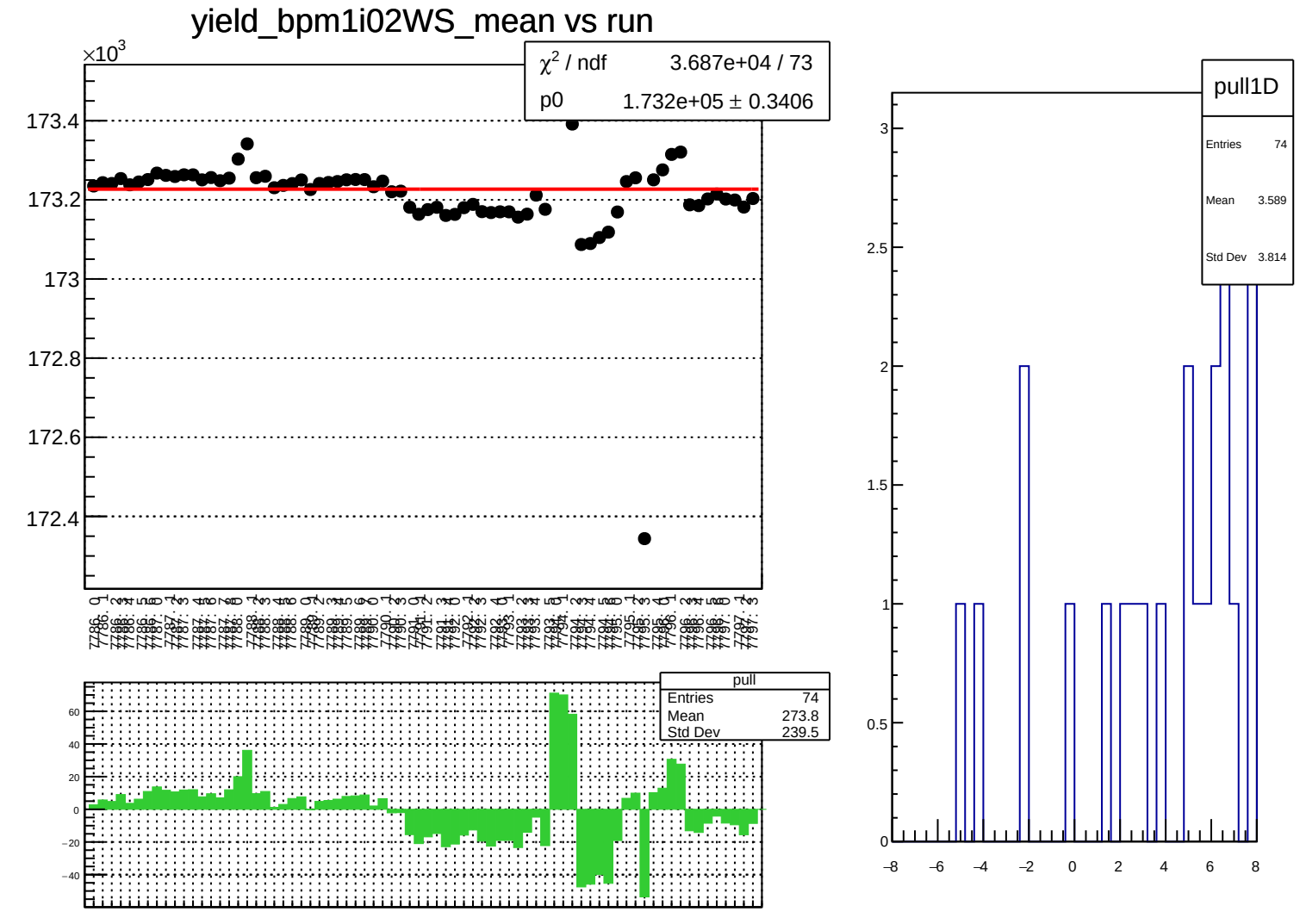

yield_bpm0i05WS_mean vs run
×10^3
χ^2 / ndf 2.97e+05 / 73
p0 1.346e+05 ± 0.2634
135
134.8
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
pull
Entries 74
Mean 1.688e+05
Std Dev 1.688e+05
150
100
50
0
−50
−100

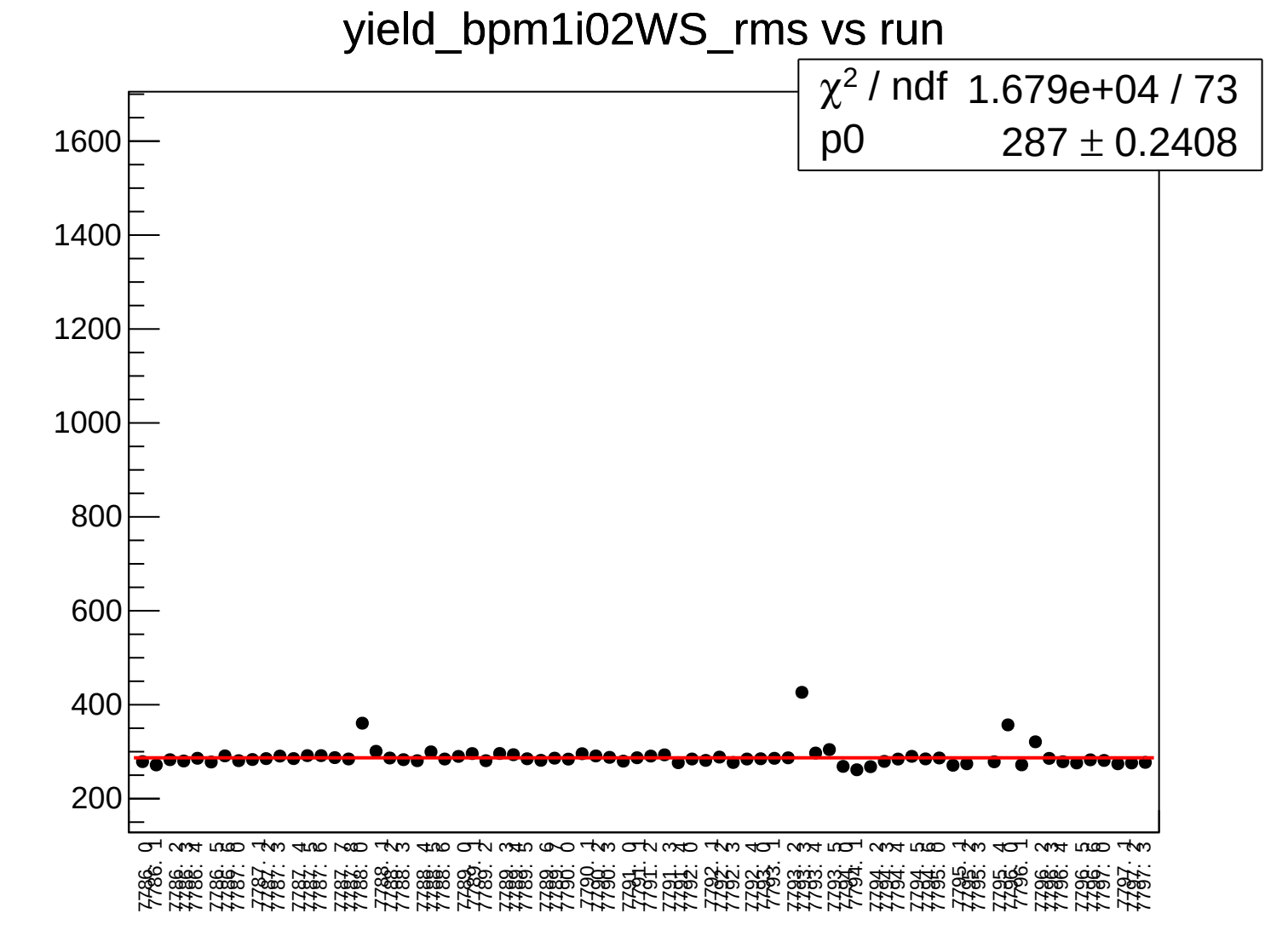

pull1D
Entries 74
Mean −2.082
Std Dev 1.653
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

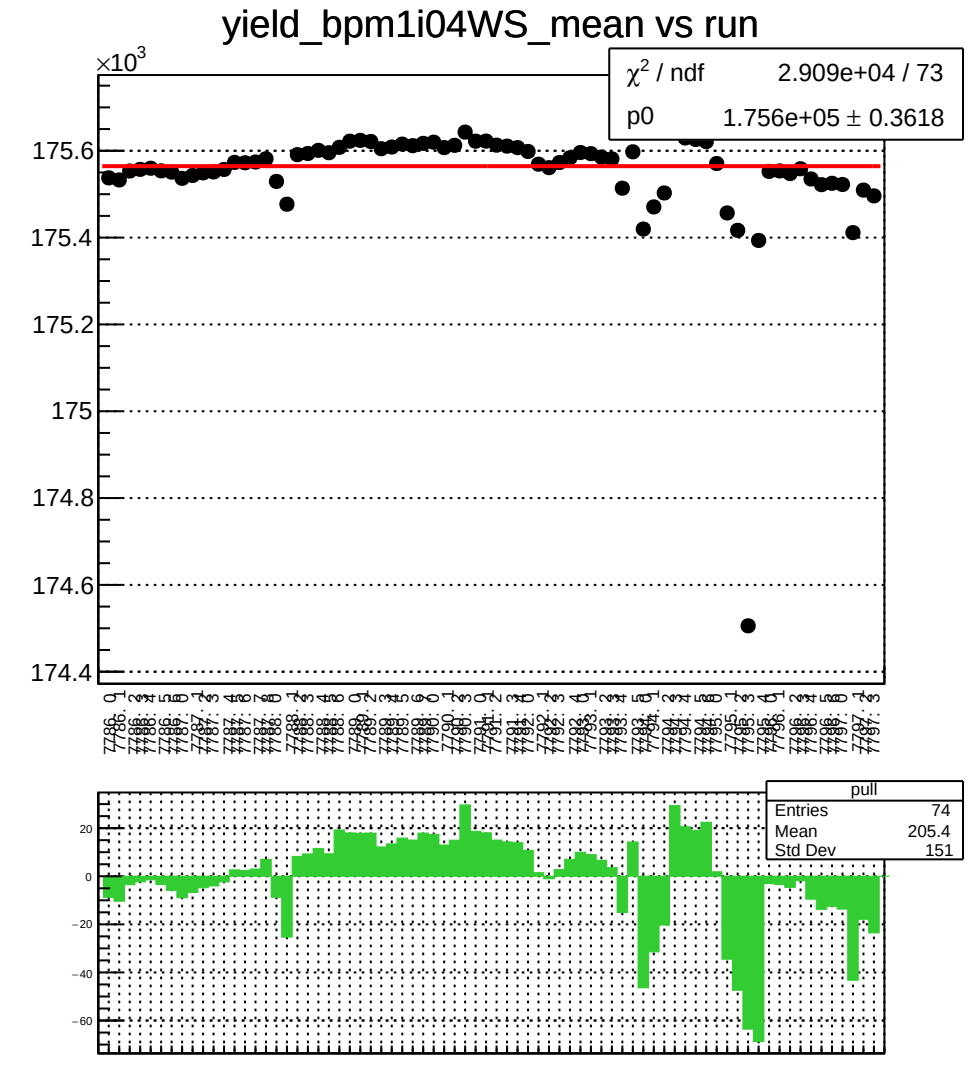

yield_bpm0i05WS_rms vs run
χ² / ndf 3.334e+04 / 73
p0 220.7 ± 0.1862
2500
2000
1500
1000
500

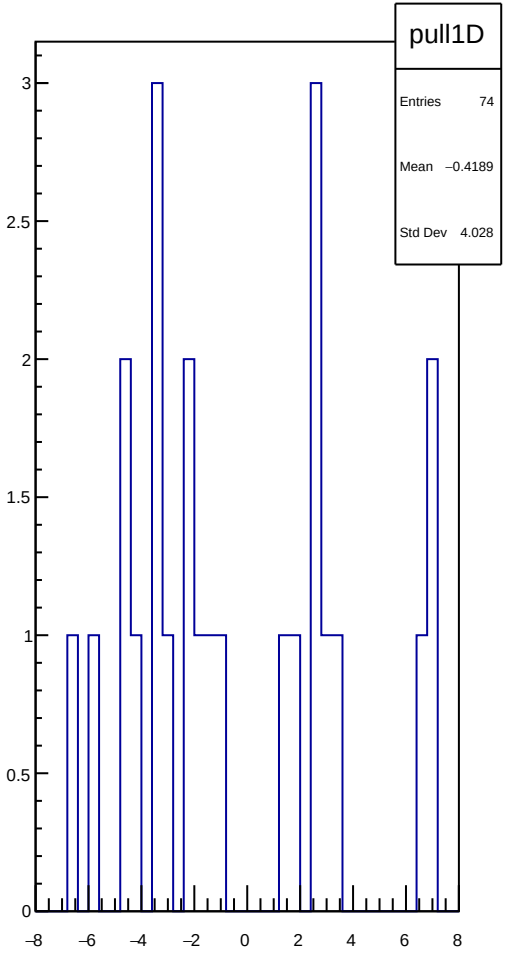

yield_bpm0i07WS_mean vs run
×10^3
χ^2 / ndf 3.496e+04 / 73
p0 1.345e+05 ± 0.2728
134.6
134.4
134.2
134
133.8
133.6
133.4
133.2
pull
Entries 74
Mean −804.5
Std Dev 837.5
60
40
20
0
−20
−40
pull1D
Entries 74
Mean 2.214
Std Dev 4.366
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

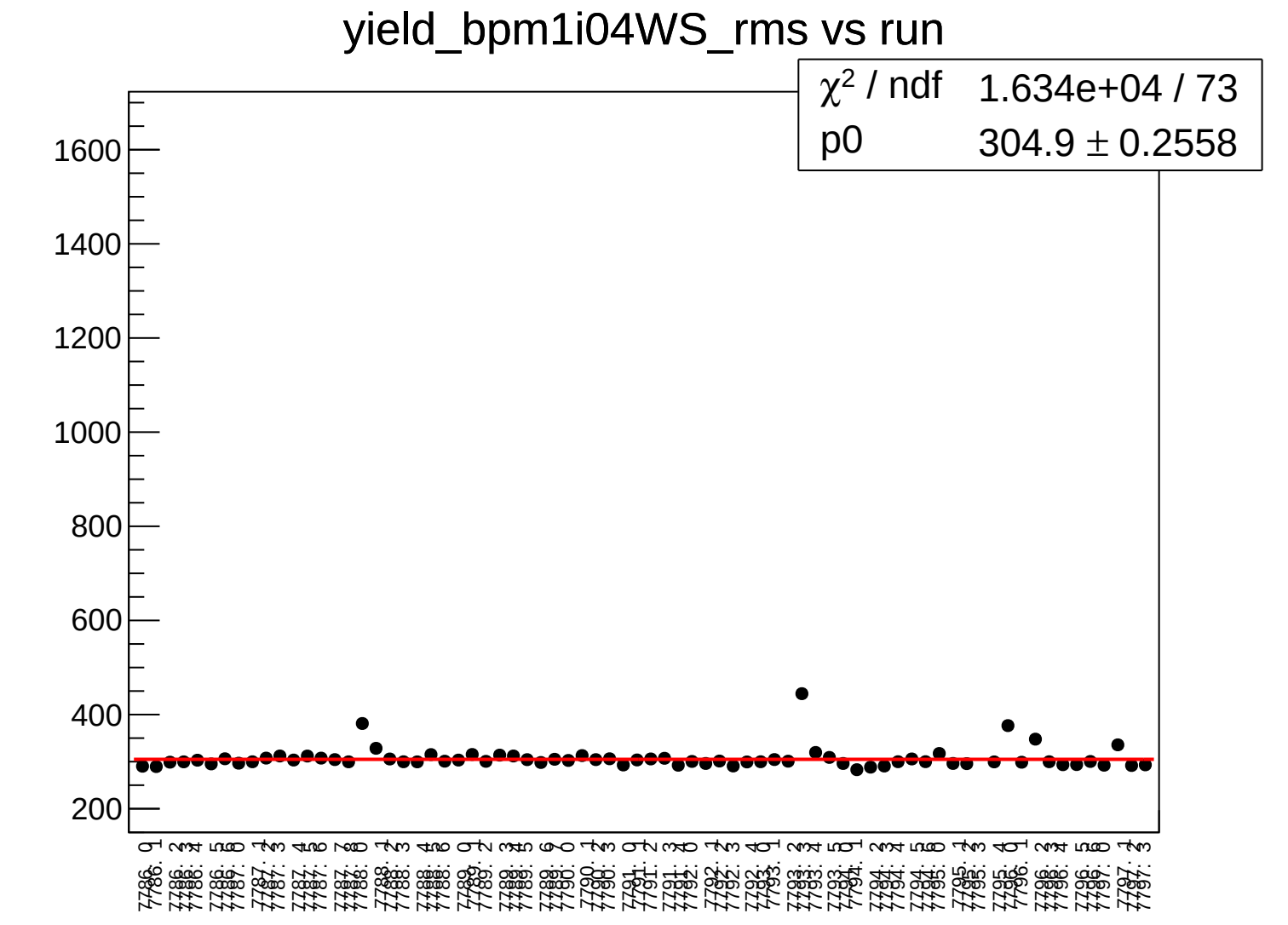

yield_bpm0i07WS_rms vs run
χ² / ndf 2.835e+04 / 73
p0 229 ± 0.1929
2500
2000
1500
1000
500

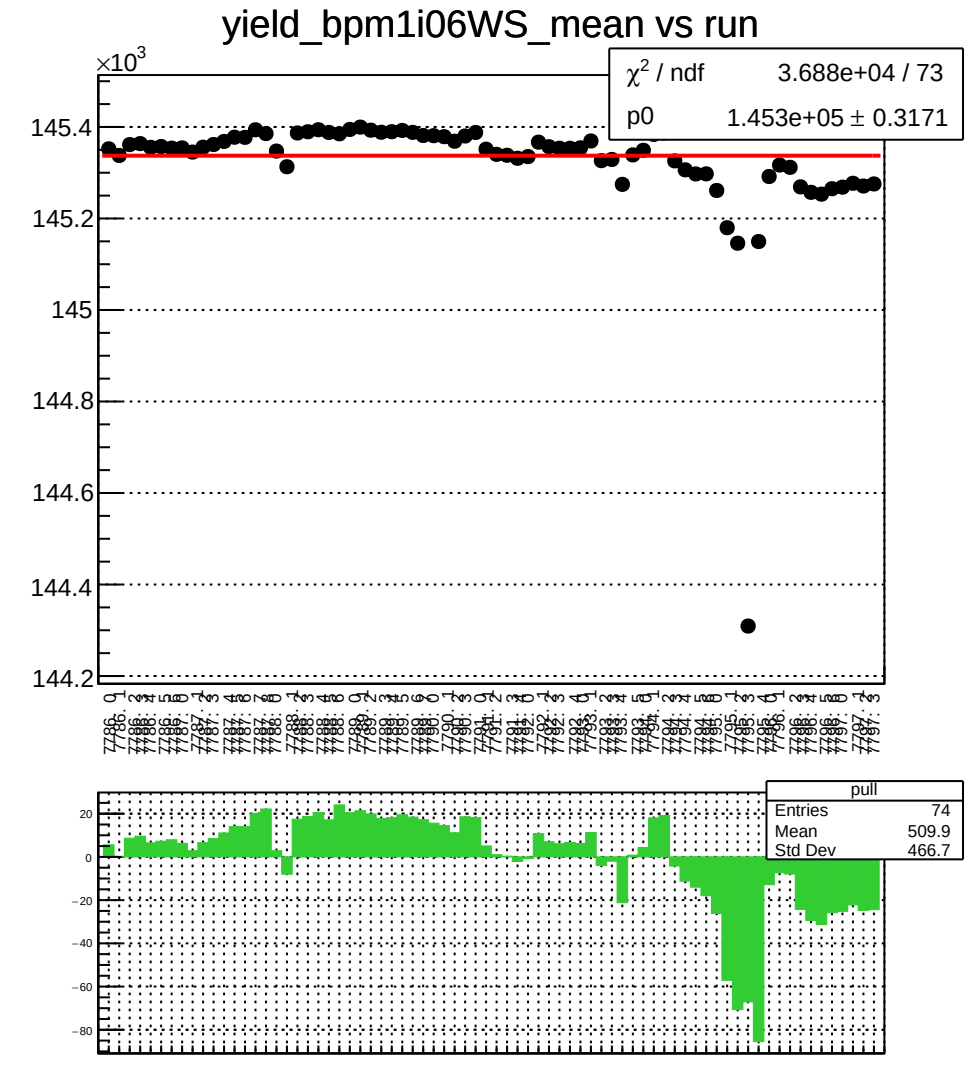

yield_bpm1i02WS_mean vs run
×10^3
χ² / ndf 3.687e+04 / 73
p0 1.732e+05 ± 0.3406
173.4
173.2
173
172.8
172.6
172.4
pull
Entries 74
Mean 273.8
Std Dev 239.5
60
40
20
0
−20
−40
pull1D
Entries 74
Mean 3.589
Std Dev 3.814
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

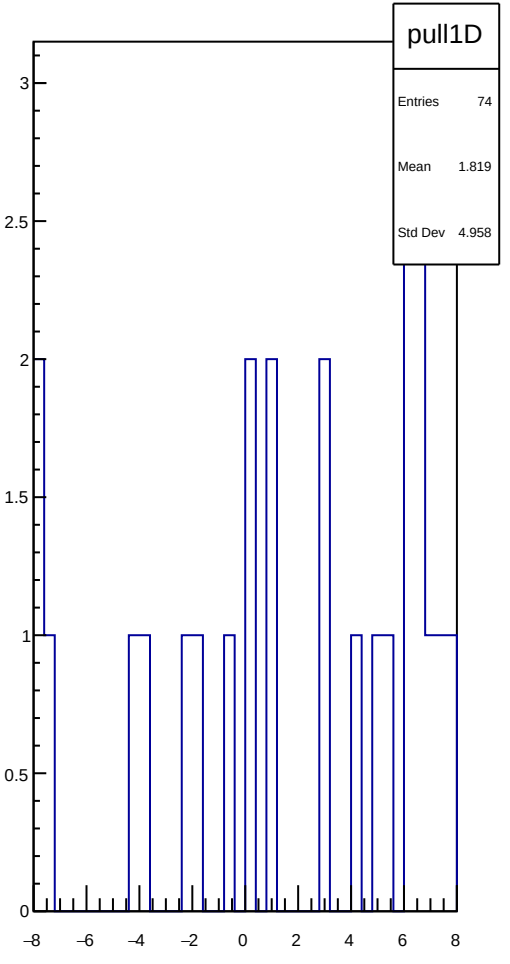

yield_bpm1i02WS_rms vs run
χ² / ndf 1.679e+04 / 73
p0 287 ± 0.2408
1600
1400
1200
1000
800
600
400
200

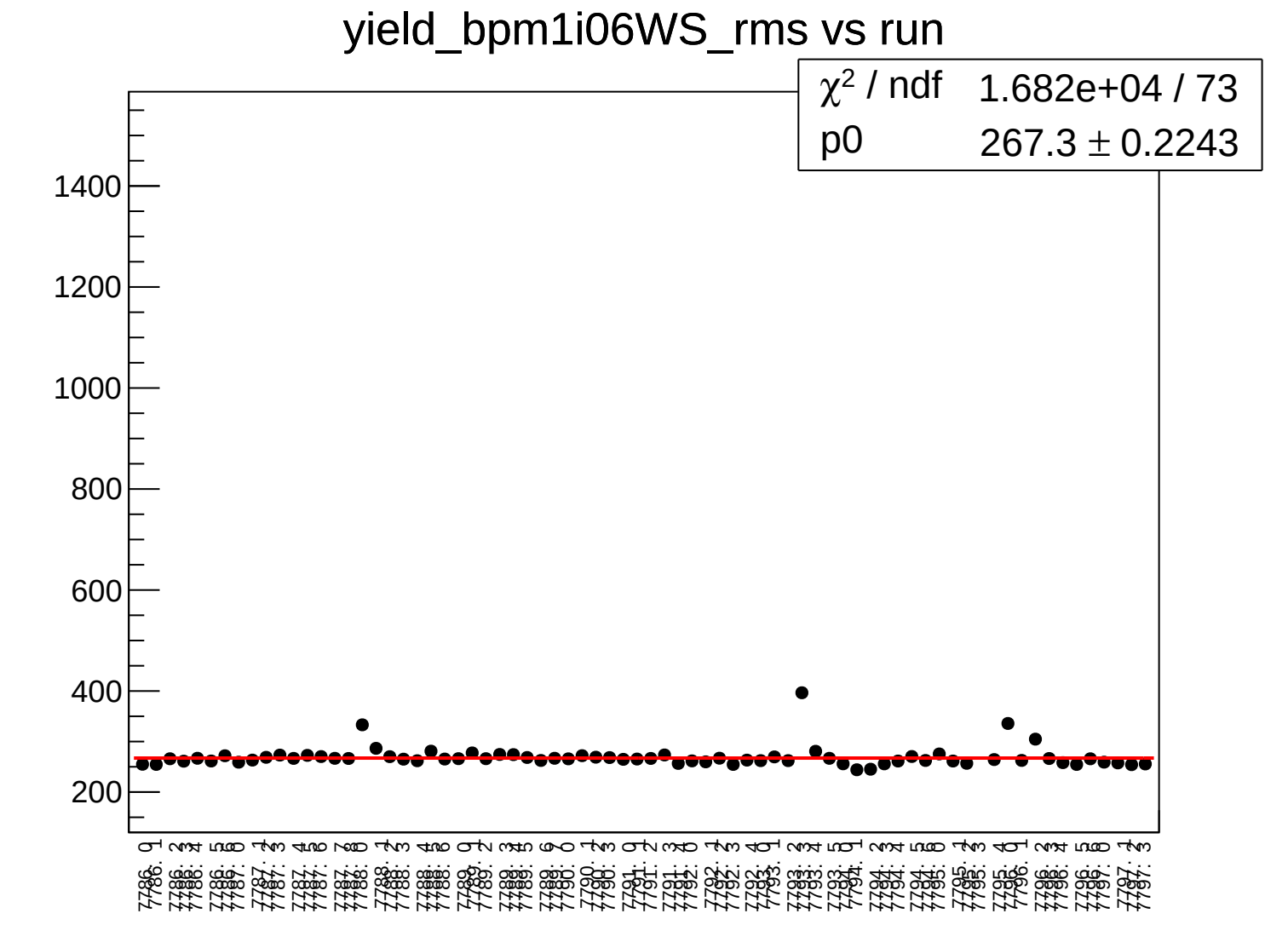

yield_bpm1i04WS_mean vs run
×10^3
χ² / ndf 2.909e+04 / 73
p0 1.756e+05 ± 0.3618
175.6
175.4
175.2
175
174.8
174.6
174.4
pull
Entries 74
Mean 205.4
Std Dev 151
20
0
−20
−40
−60

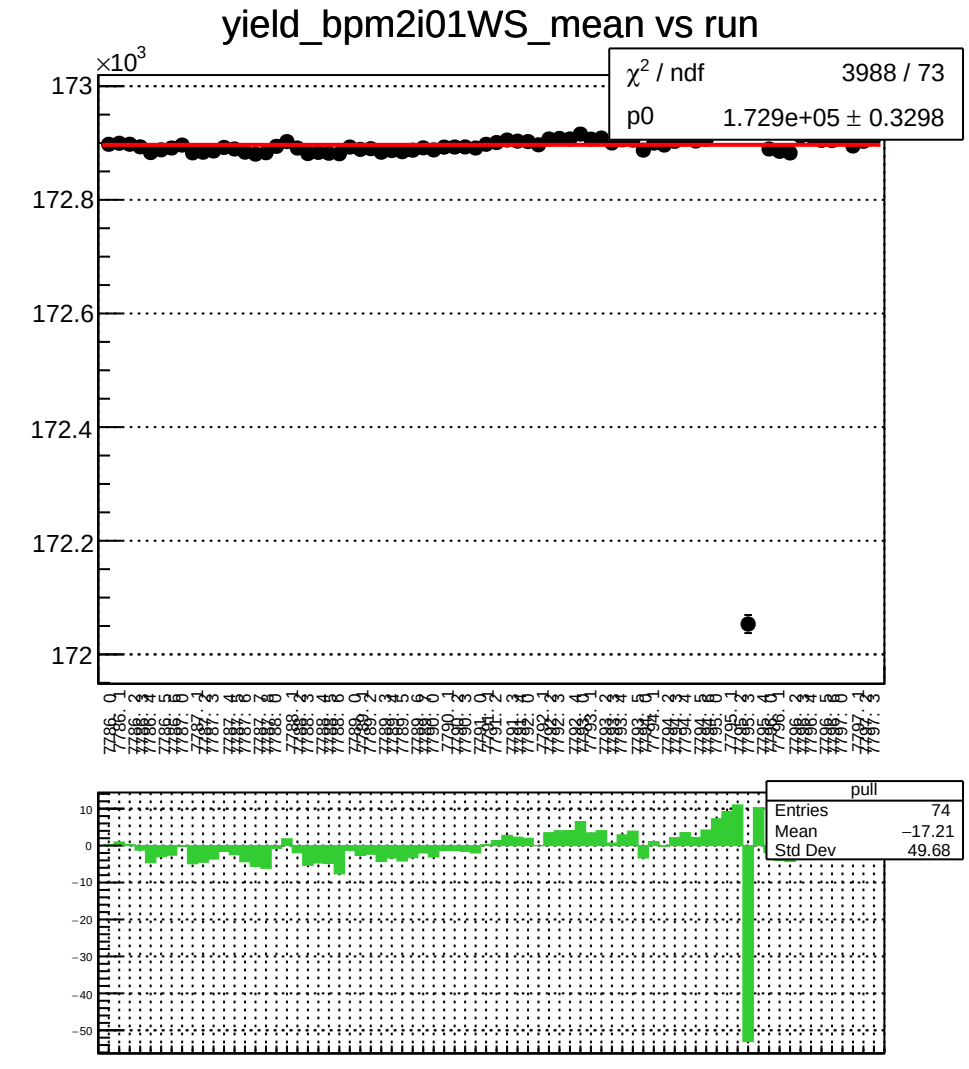

pull1D
Entries 74
Mean −0.4189
Std Dev 4.028
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

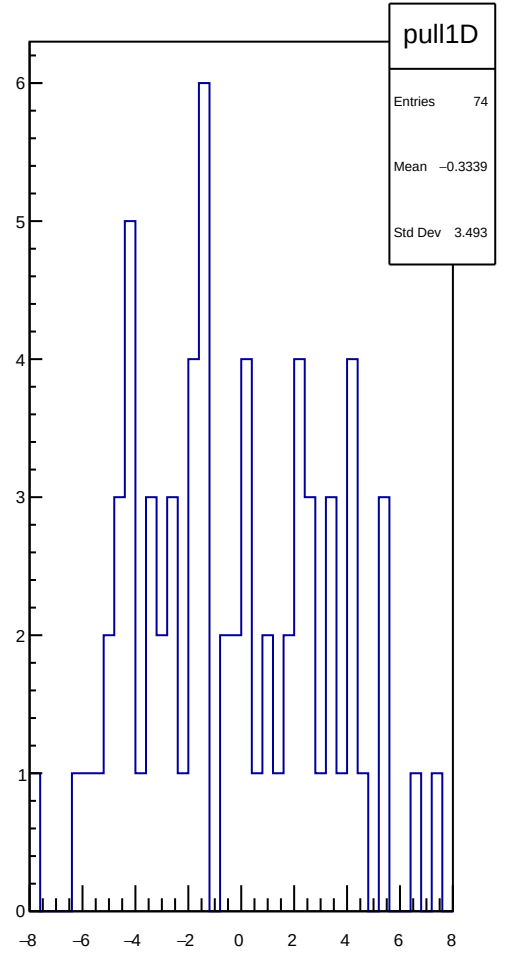

yield_bpm1i04WS_rms vs run
χ² / ndf 1.634e+04 / 73
p0 304.9 ± 0.2558
1600
1400
1200
1000
800
600
400
200

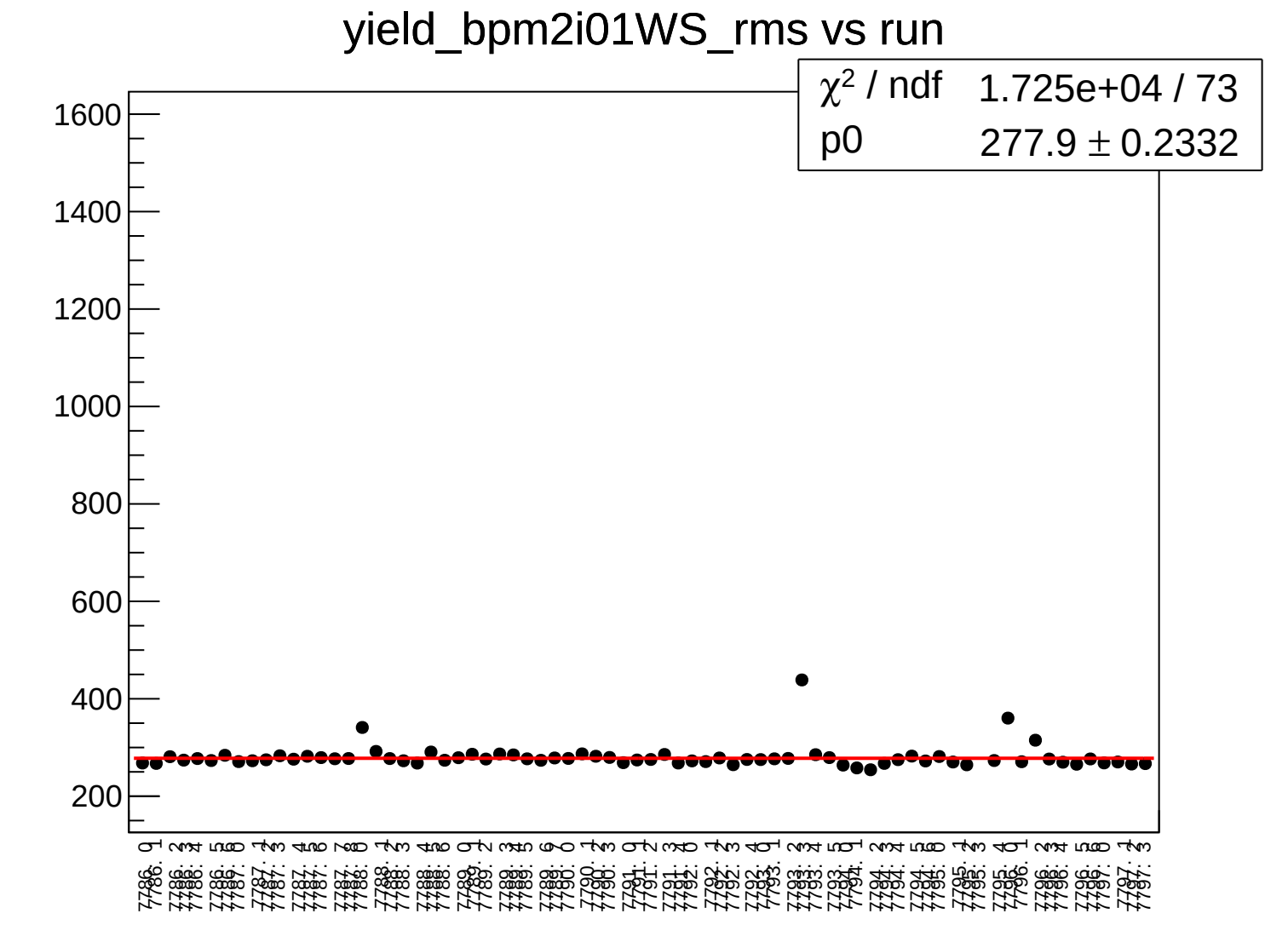

yield_bpm1i06WS_mean vs run
×10^3
χ² / ndf 3.688e+04 / 73
p0 1.453e+05 ± 0.3171
145.4
145.2
145
144.8
144.6
144.4
144.2
pull
Entries 74
Mean 509.9
Std Dev 466.7
20
0
−20
−40
−60
−80

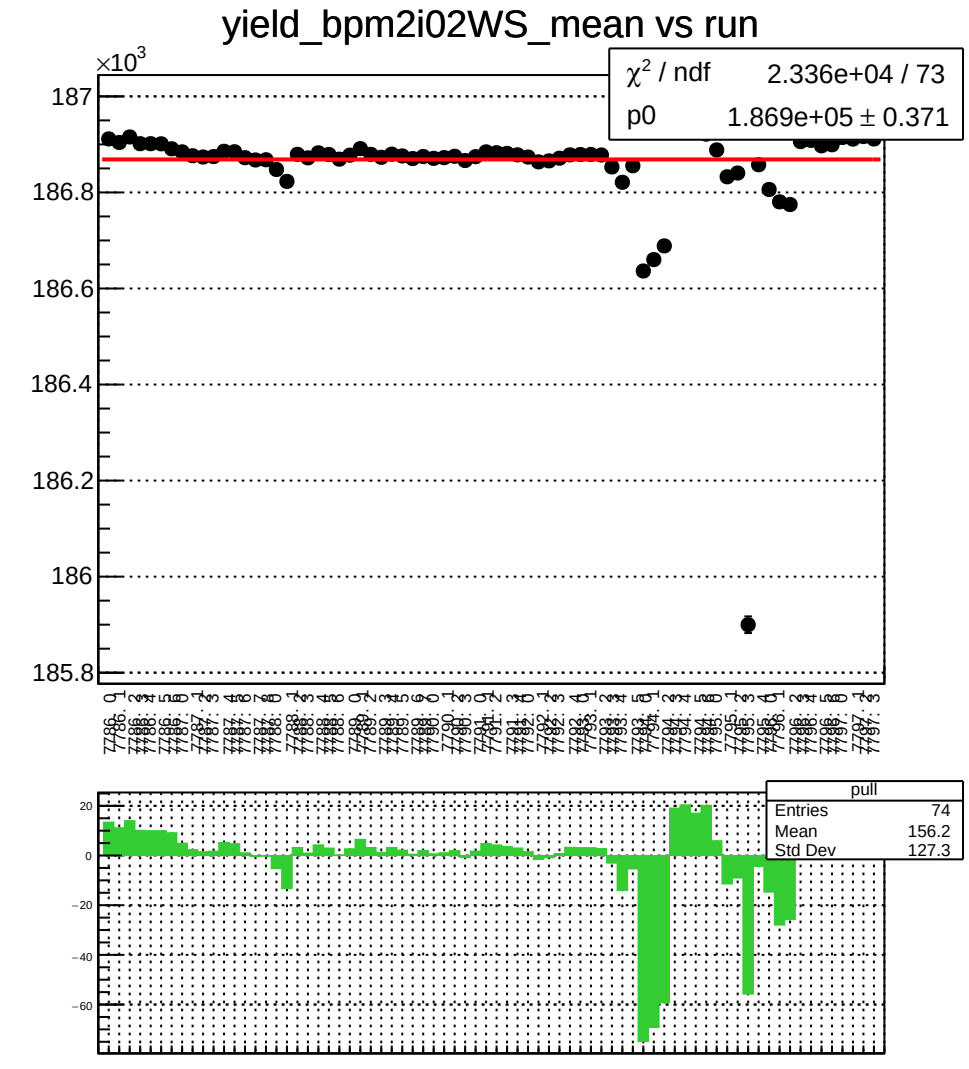

pull1D
Entries 74
Mean 1.819
Std Dev 4.958
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

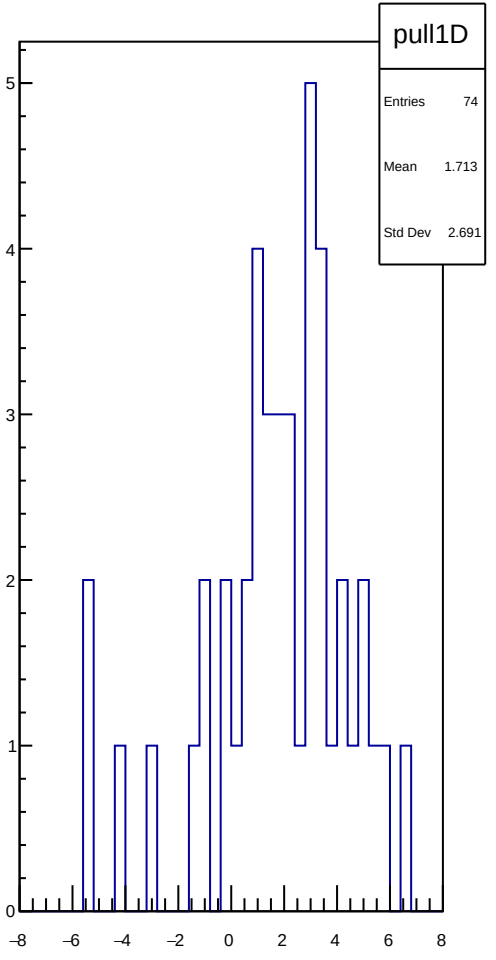

yield_bpm1i06WS_rms vs run
χ² / ndf 1.682e+04 / 73
p0 267.3 ± 0.2243
1400
1200
1000
800
600
400
200

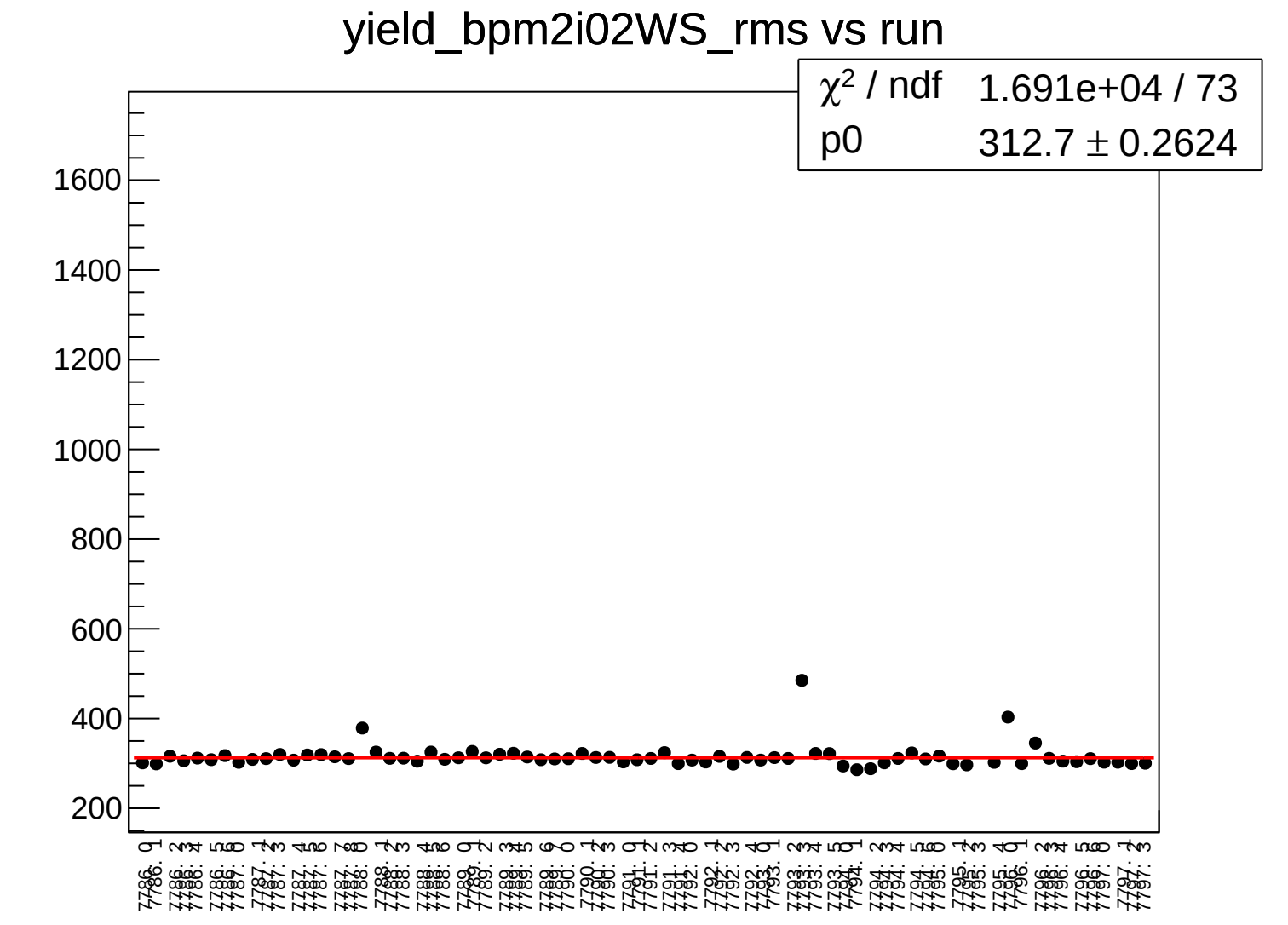

yield_bpm2i01WS_mean vs run
×10^3
χ² / ndf 3988 / 73
p0 1.729e+05 ± 0.3298
173
172.8
172.6
172.4
172.2
172
pull
Entries 74
Mean −17.21
Std Dev 49.68
10
0
−10
−20
−30
−40
−50

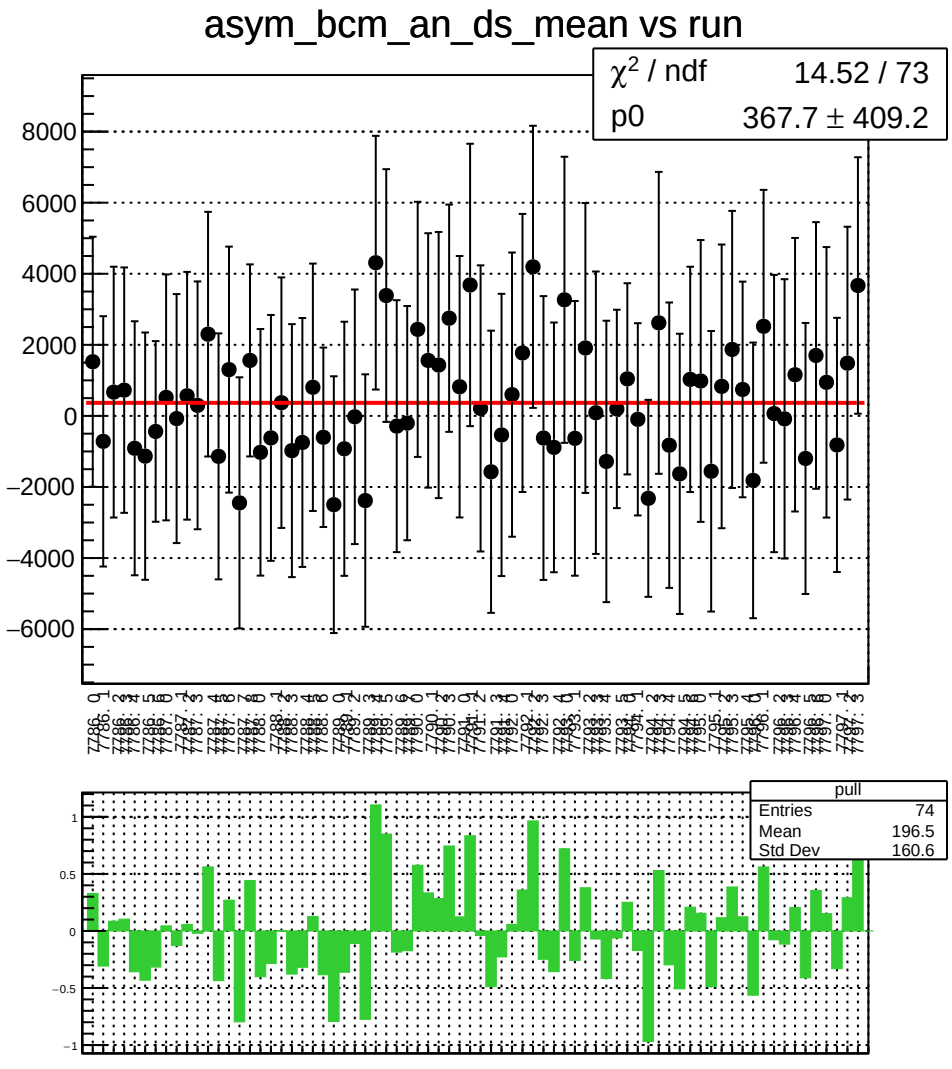

pull1D
Entries 74
Mean −0.3339
Std Dev 3.493
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

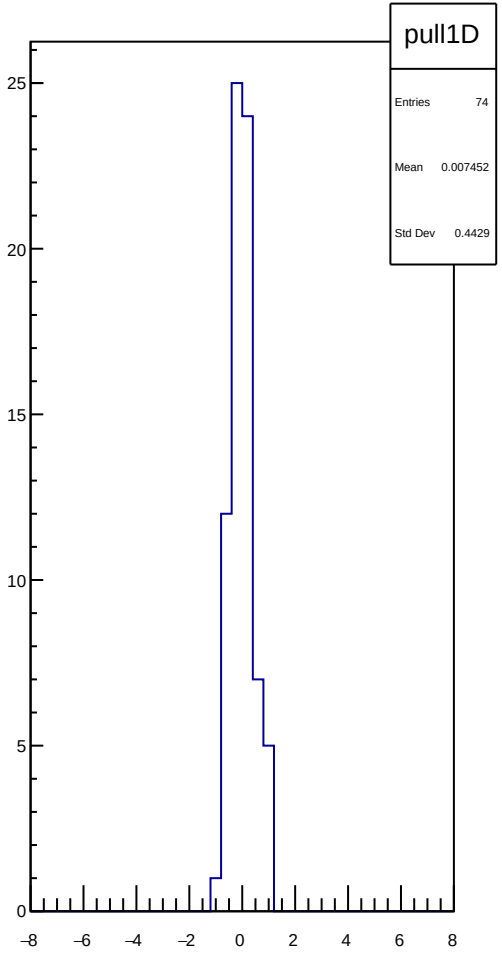

yield_bpm2i01WS_rms vs run
χ² / ndf 1.725e+04 / 73
p0 277.9 ± 0.2332
1600
1400
1200
1000
800
600
400
200

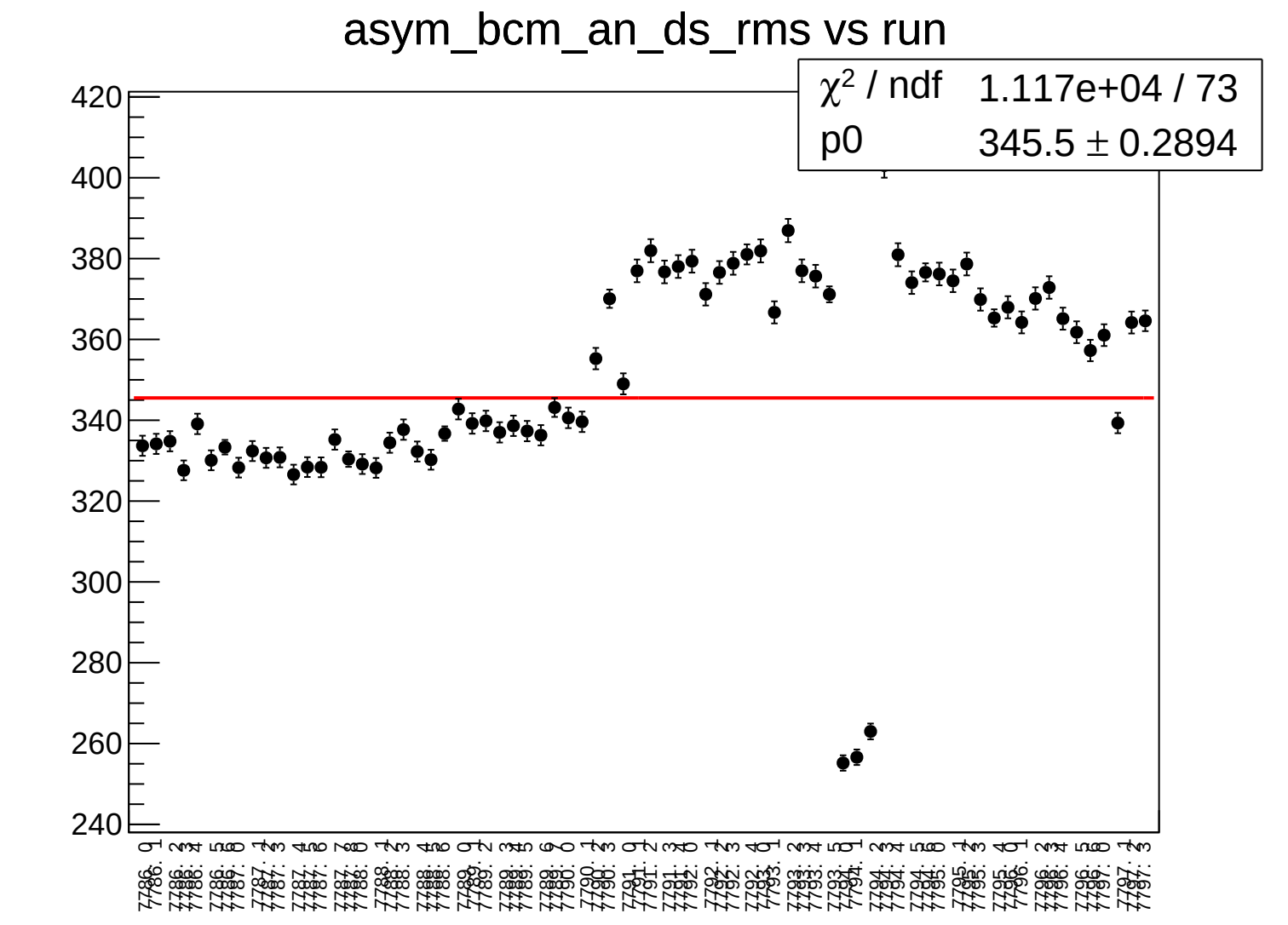

yield_bpm2i02WS_mean vs run
×10^3
χ² / ndf 2.336e+04 / 73
p0 1.869e+05 ± 0.371
187
186.8
186.6
186.4
186.2
186
185.8
pull
Entries 74
Mean 156.2
Std Dev 127.3
20
0
−20
−40
−60

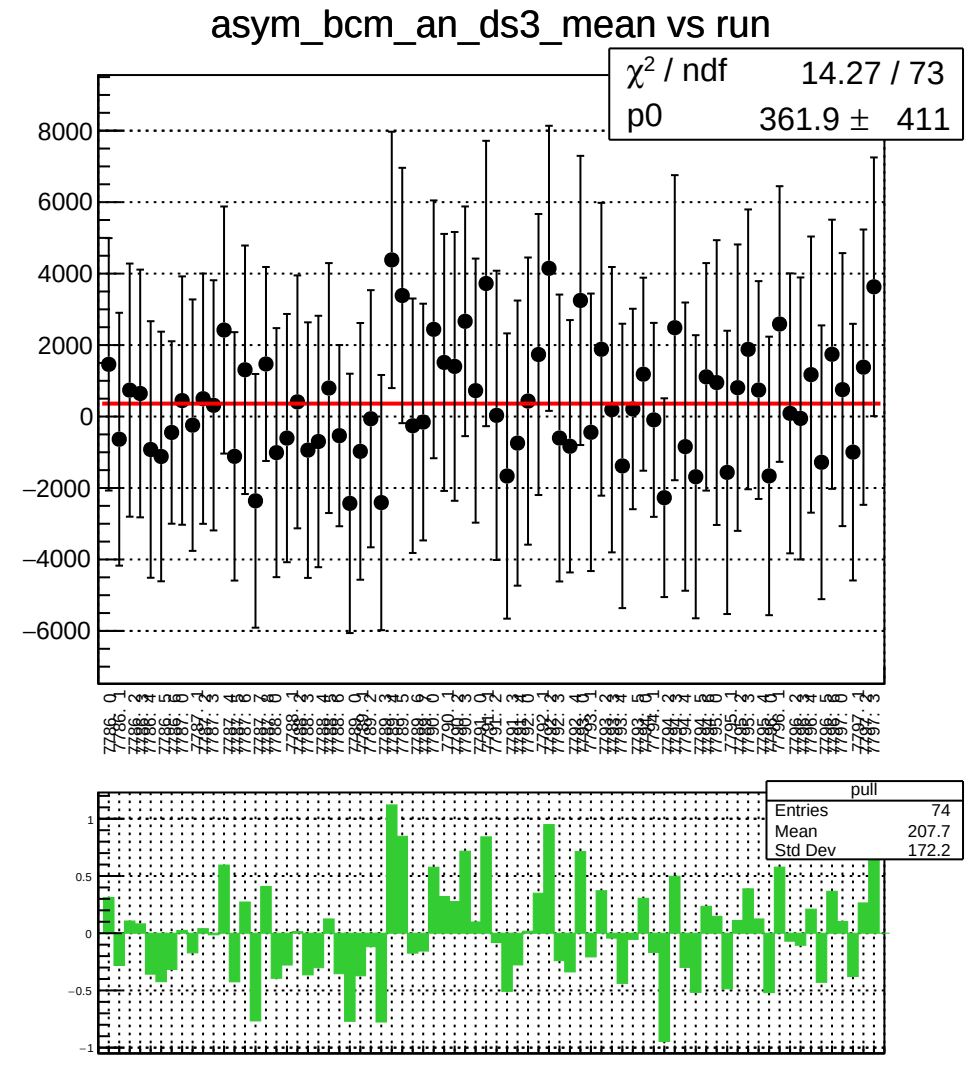

pull1D
Entries 74
Mean 1.713
Std Dev 2.691
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

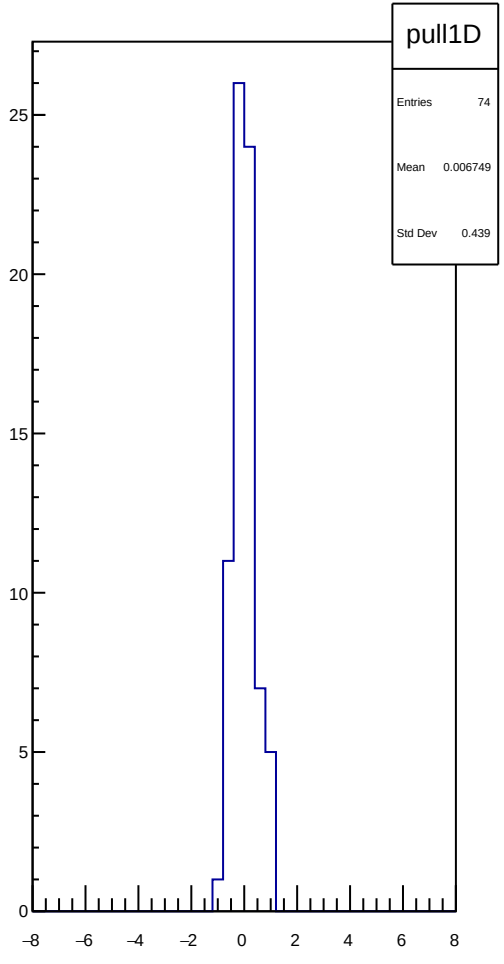

yield_bpm2i02WS_rms vs run
χ^2 / ndf 1.691e+04 / 73
p0 312.7 ± 0.2624
1600
1400
1200
1000
800
600
400
200

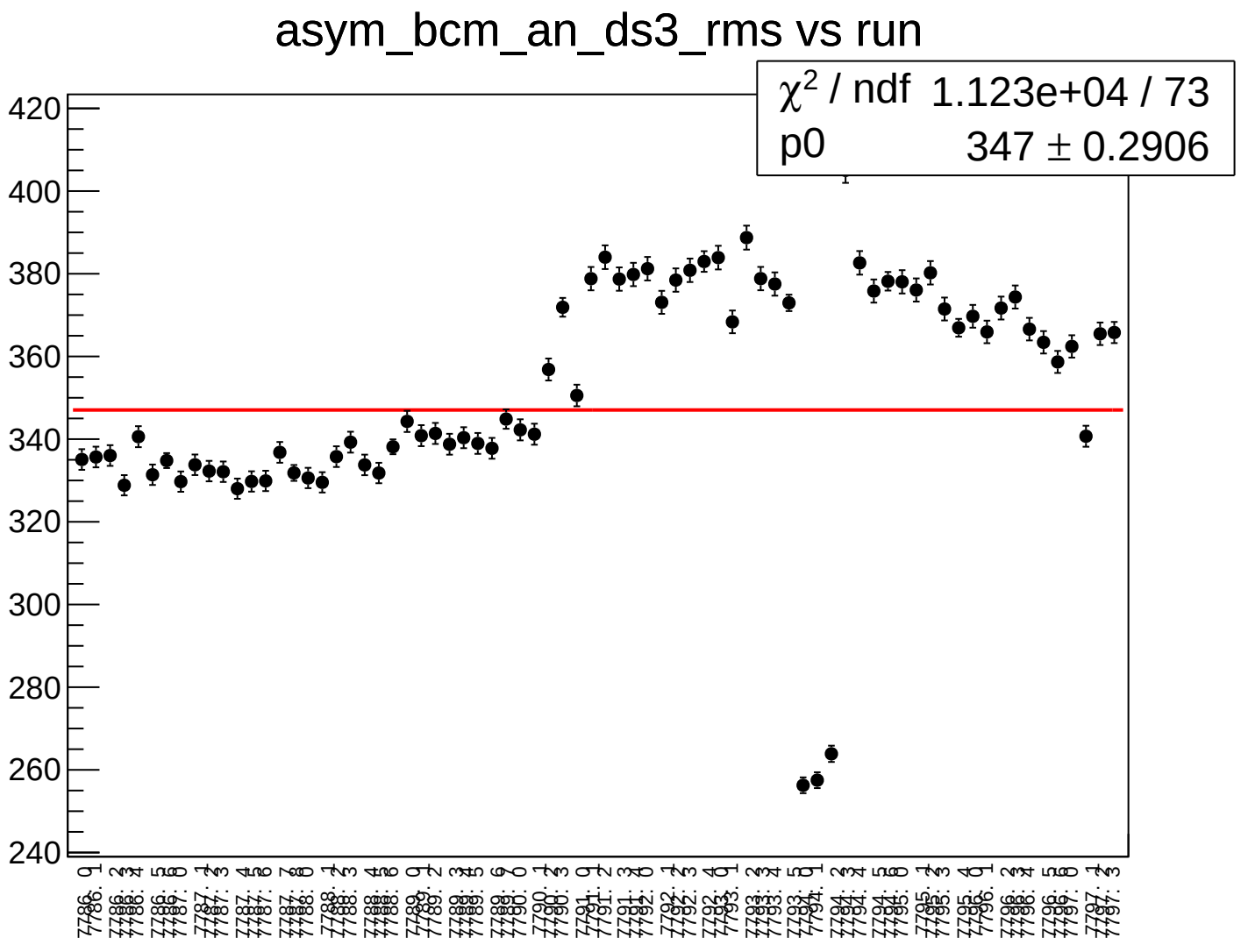

asym_bcm_an_ds_mean vs run
χ² / ndf 14.52 / 73
p0 367.7 ± 409.2
pull
Entries 74
Mean 196.5
Std Dev 160.6

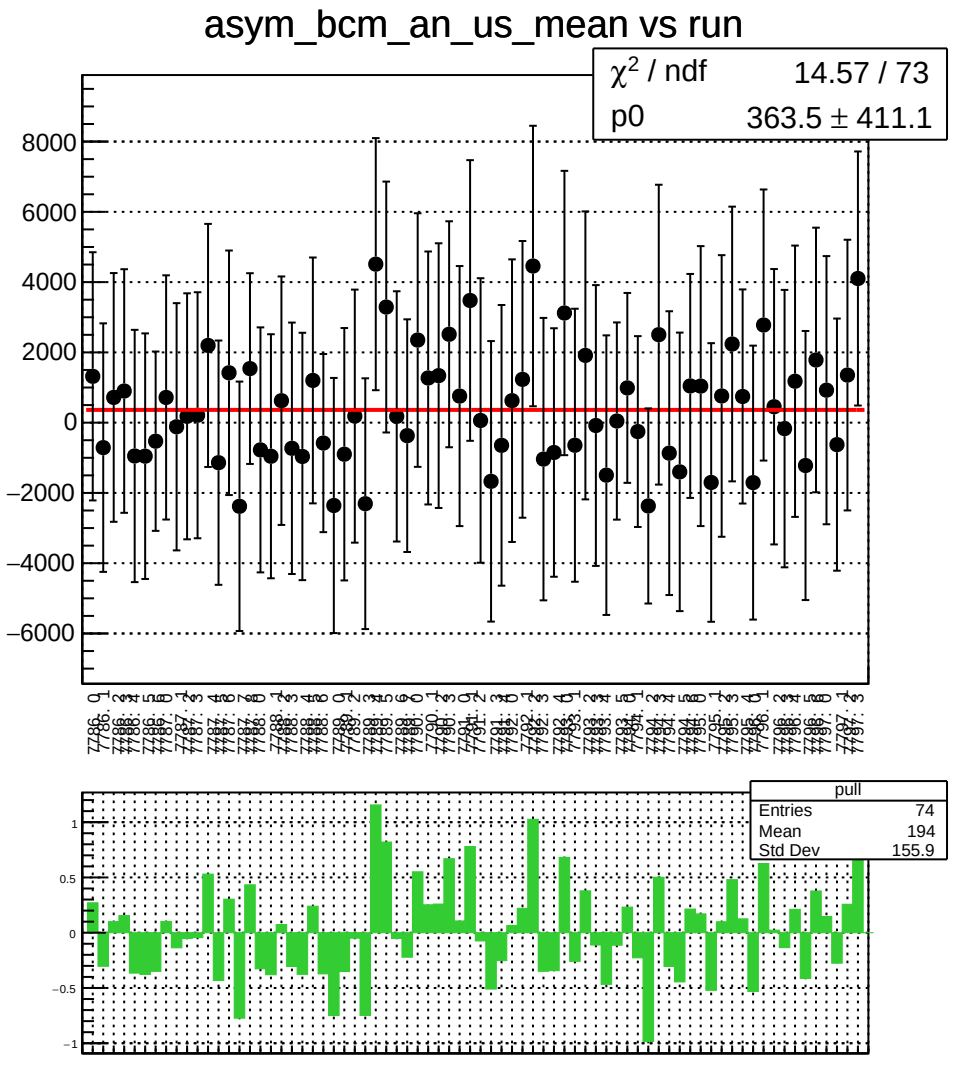

pull1D
Entries 74
Mean 0.007452
Std Dev 0.4429

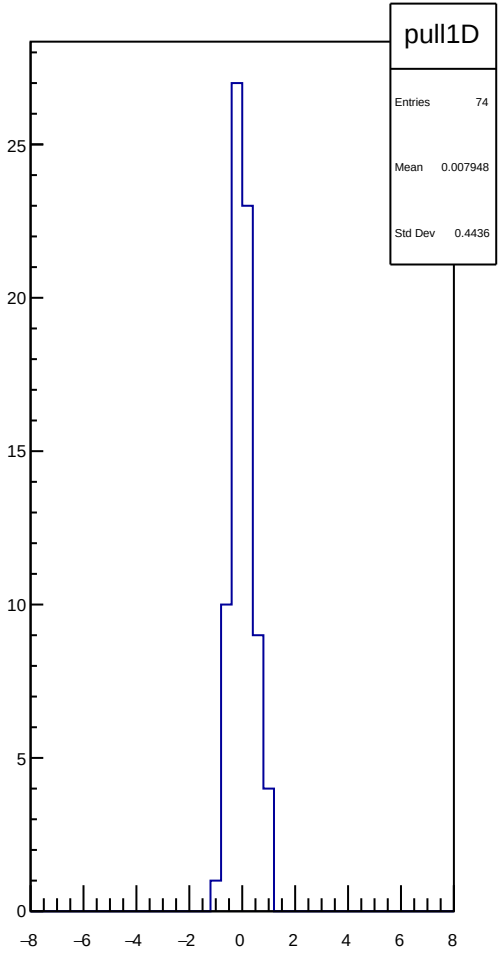

asym_bcm_an_ds_rms vs run
χ² / ndf 1.117e+04 / 73
p0 345.5 ± 0.2894
420
400
380
360
340
320
300
280
260
240

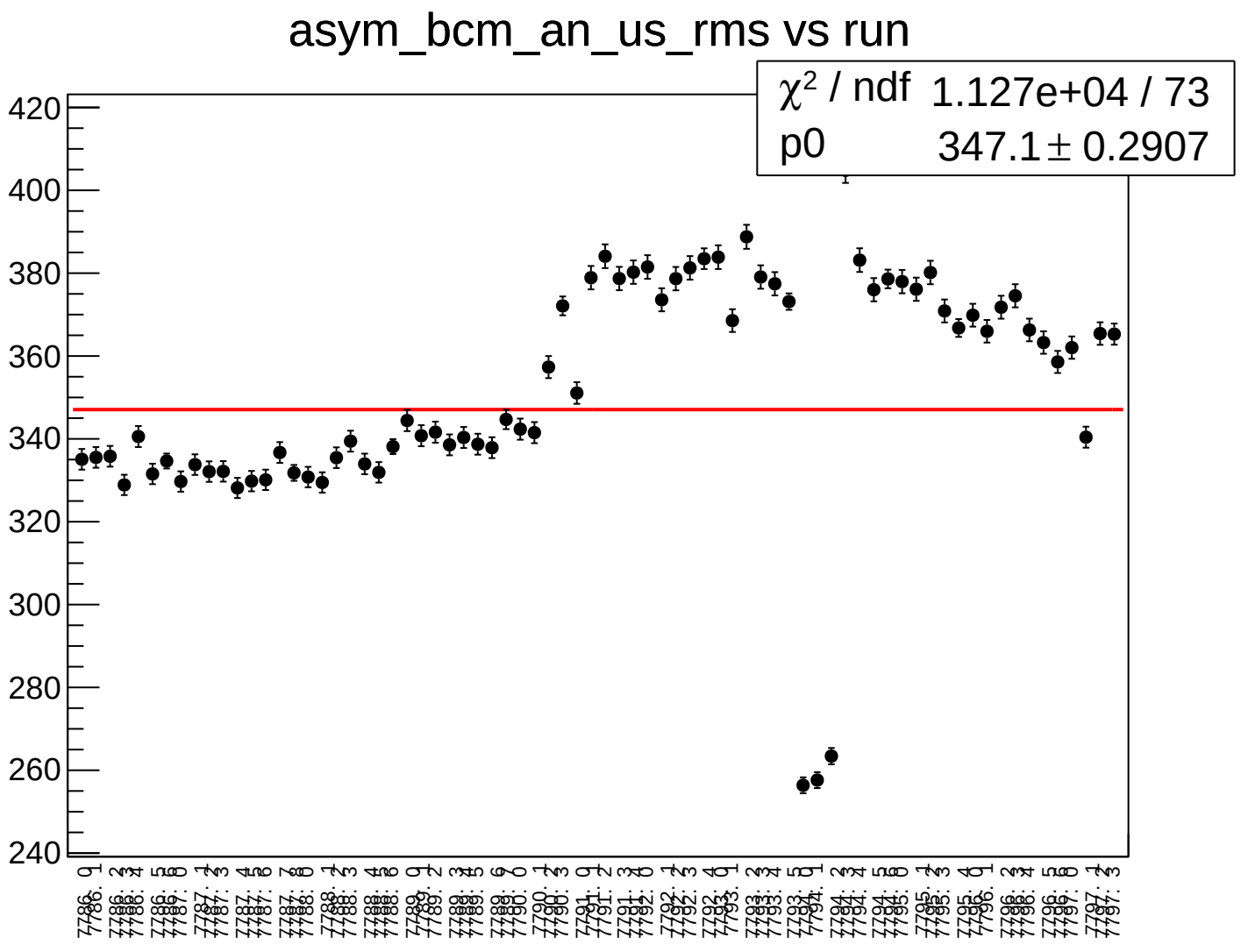

asym_bcm_an_ds3_mean vs run
χ² / ndf 14.27 / 73
p0 361.9 ± 411
pull
Entries 74
Mean 207.7
Std Dev 172.2

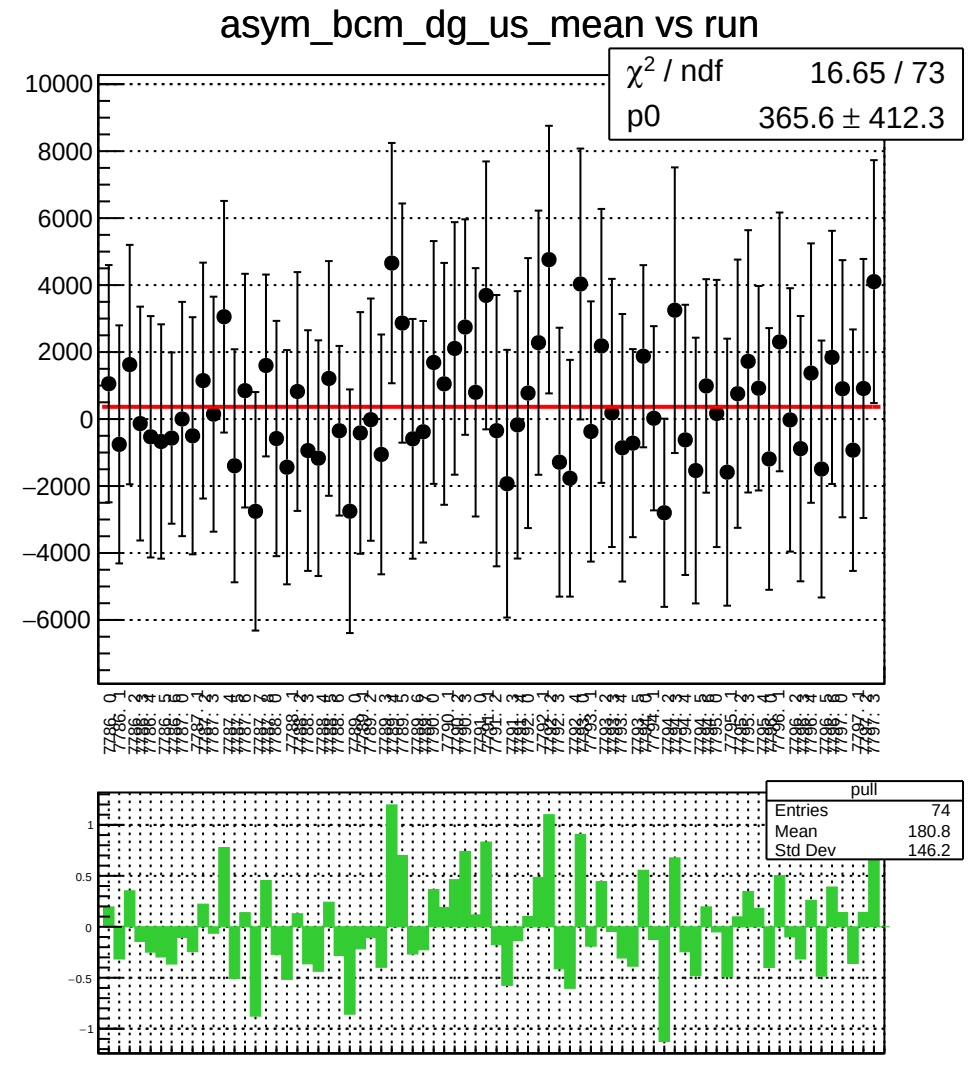

pull1D
Entries 74
Mean 0.006749
Std Dev 0.439

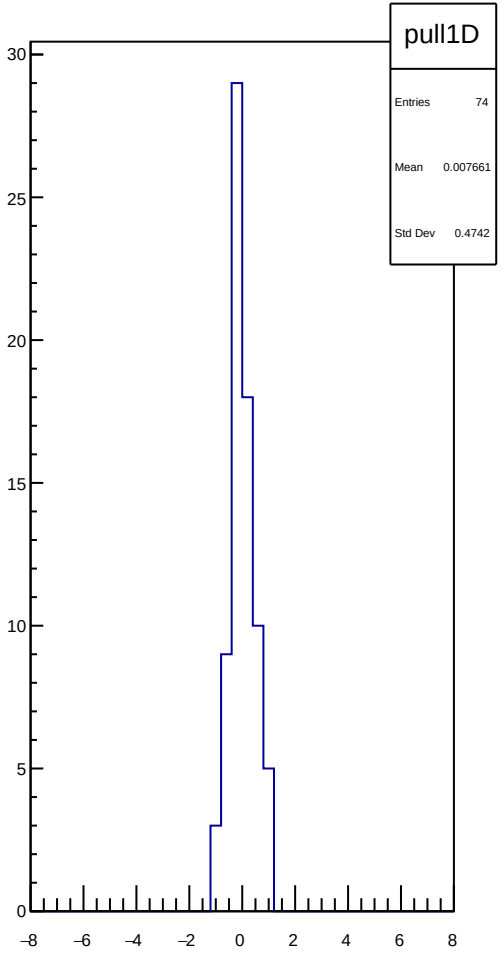

asym_bcm_an_ds3_rms vs run
χ² / ndf 1.123e+04 / 73
p0 347 ± 0.2906
420
400
380
360
340
320
300
280
260
240

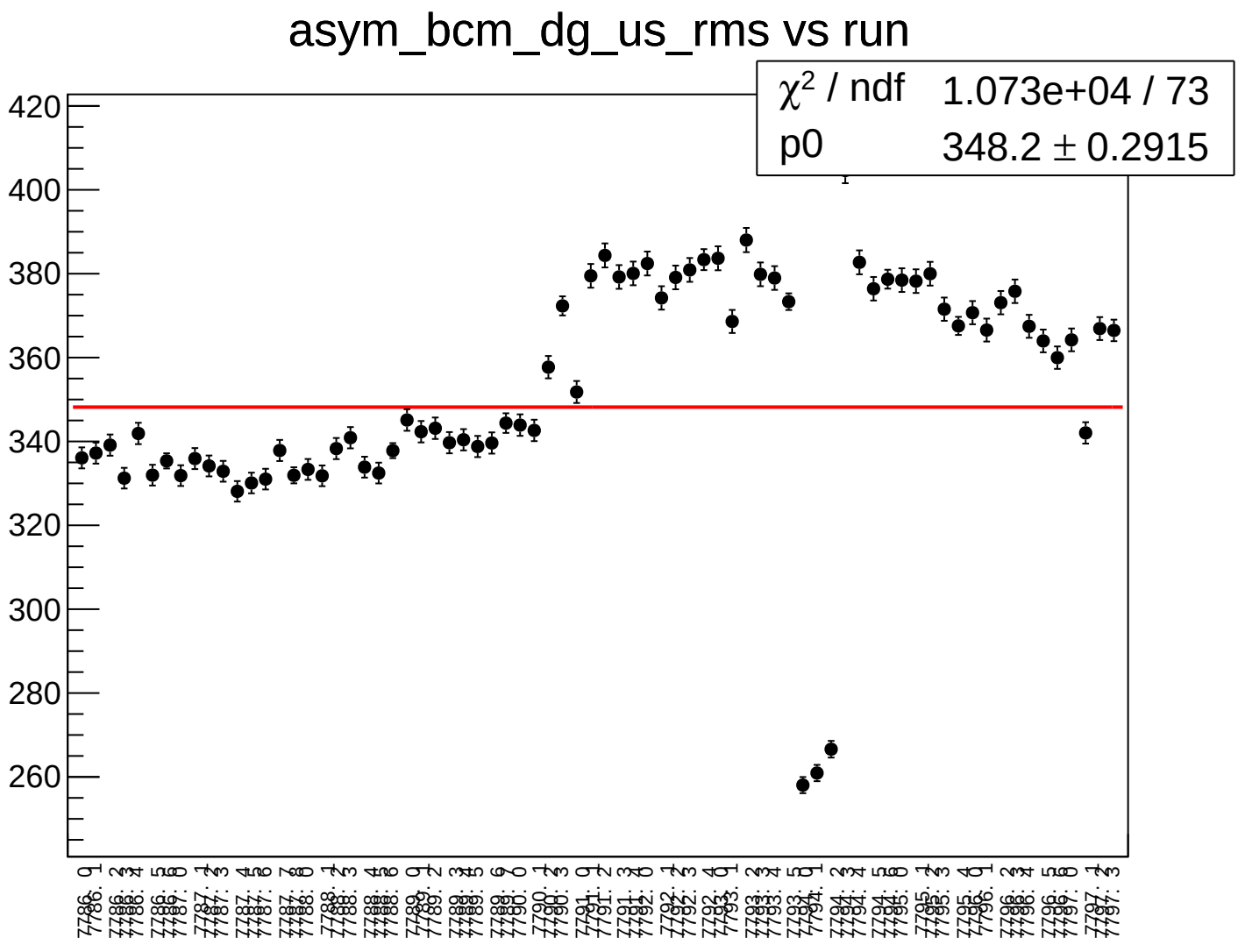

asym_bcm_an_us_mean vs run
χ² / ndf 14.57 / 73
p0 363.5 ± 411.1
pull
Entries 74
Mean 194
Std Dev 155.9

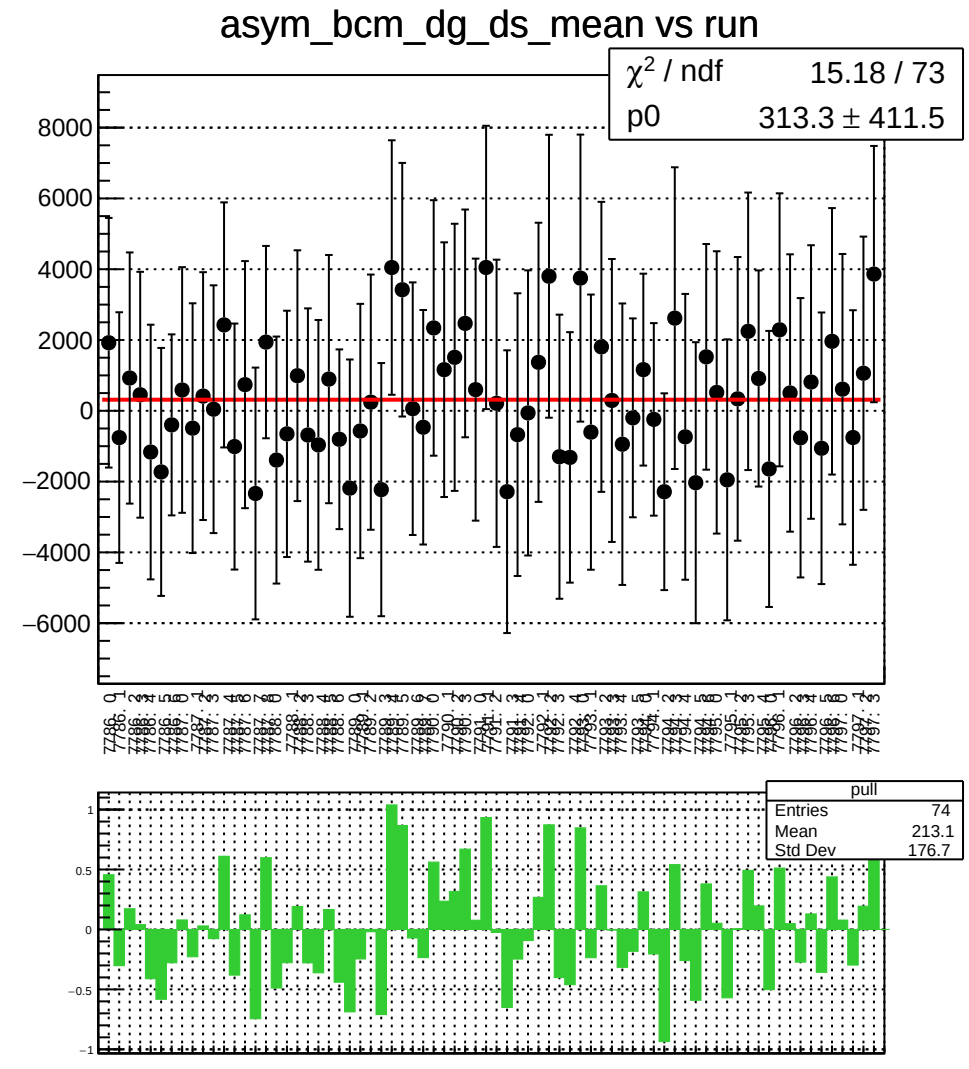

pull1D
Entries 74
Mean 0.007948
Std Dev 0.4436

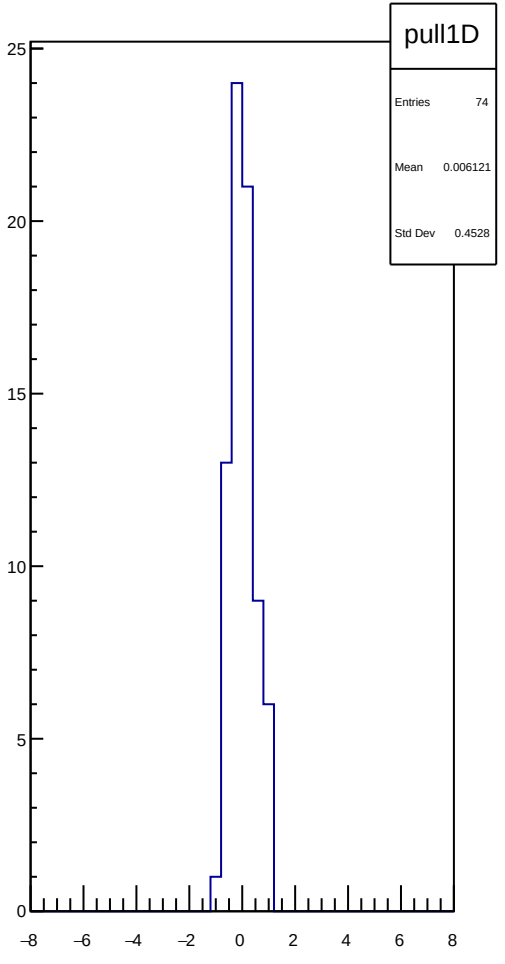

asym_bcm_an_us_rms vs run
χ² / ndf 1.127e+04 / 73
p0 347.1 ± 0.2907
420
400
380
360
340
320
300
280
260
240

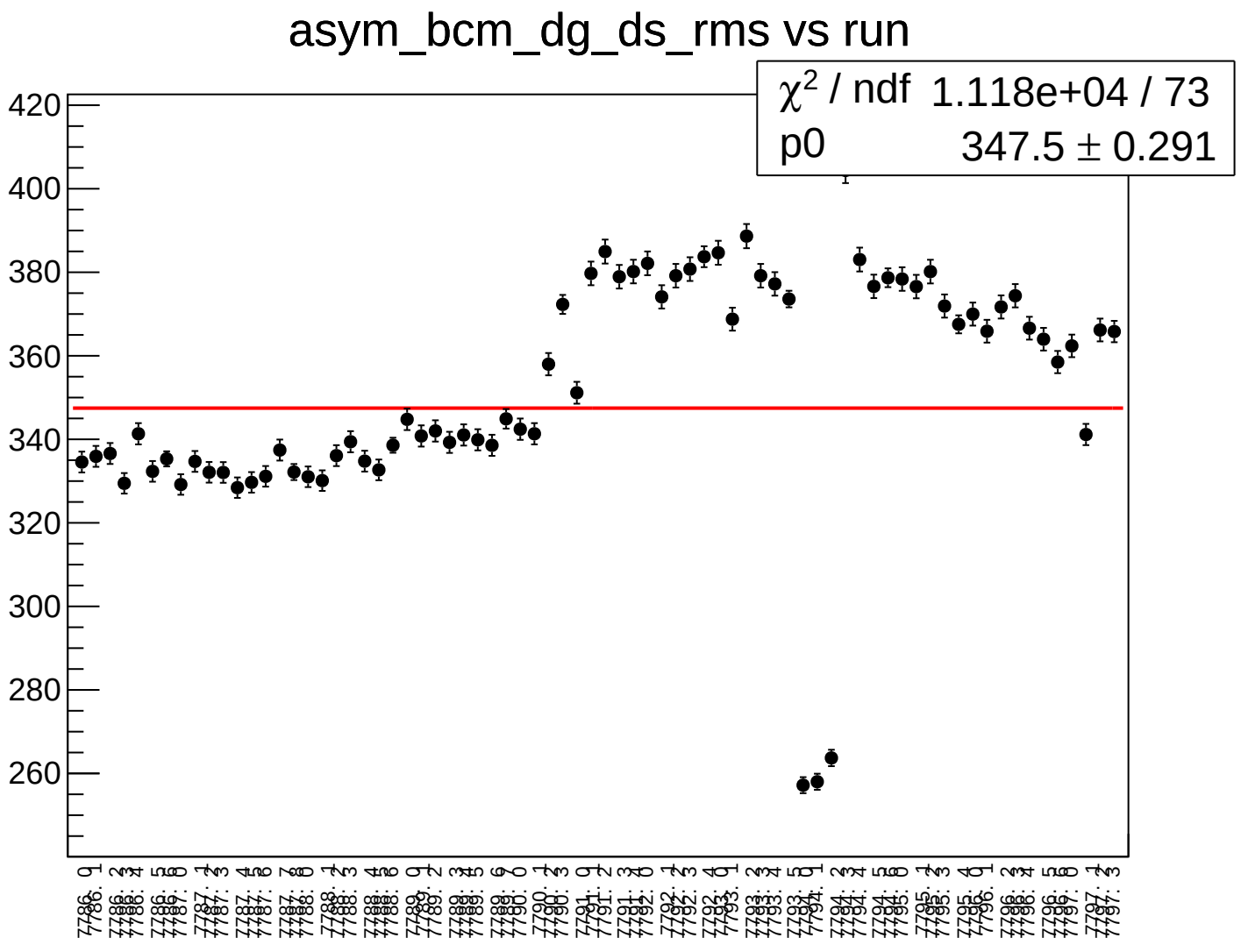

asym_bcm_dg_us_mean vs run
χ² / ndf 16.65 / 73
p0 365.6 ± 412.3
pull
Entries 74
Mean 180.8
Std Dev 146.2

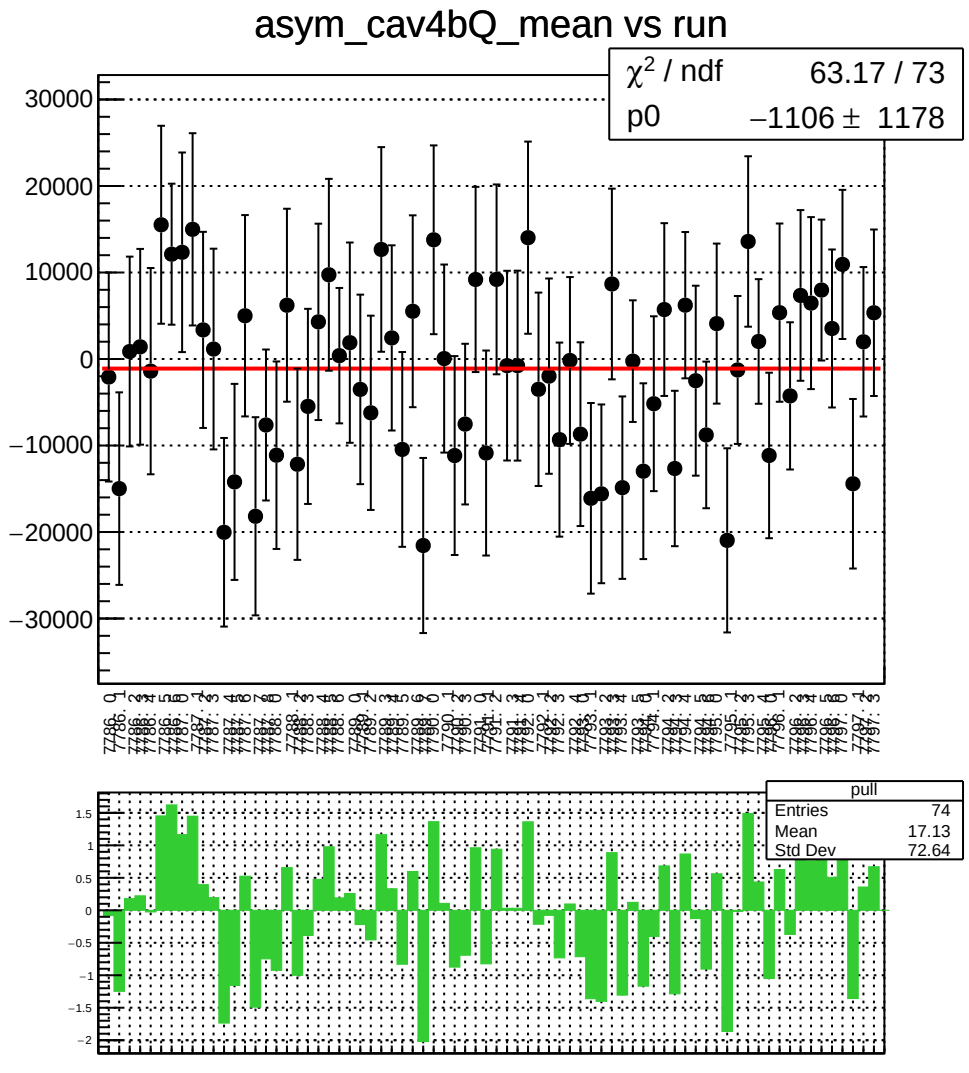

pull1D
Entries 74
Mean 0.007661
Std Dev 0.4742

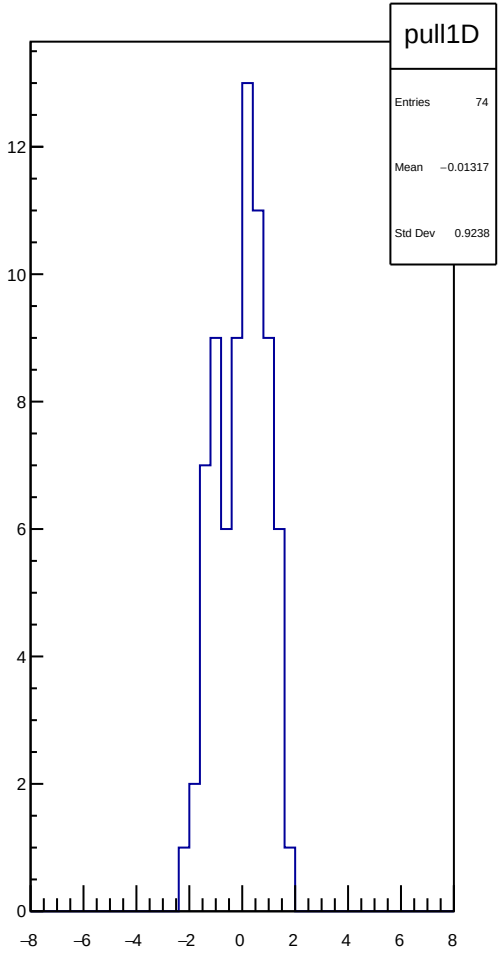

asym_bcm_dg_us_rms vs run
χ² / ndf 1.073e+04 / 73
p0 348.2 ± 0.2915
420
400
380
360
340
320
300
280
260

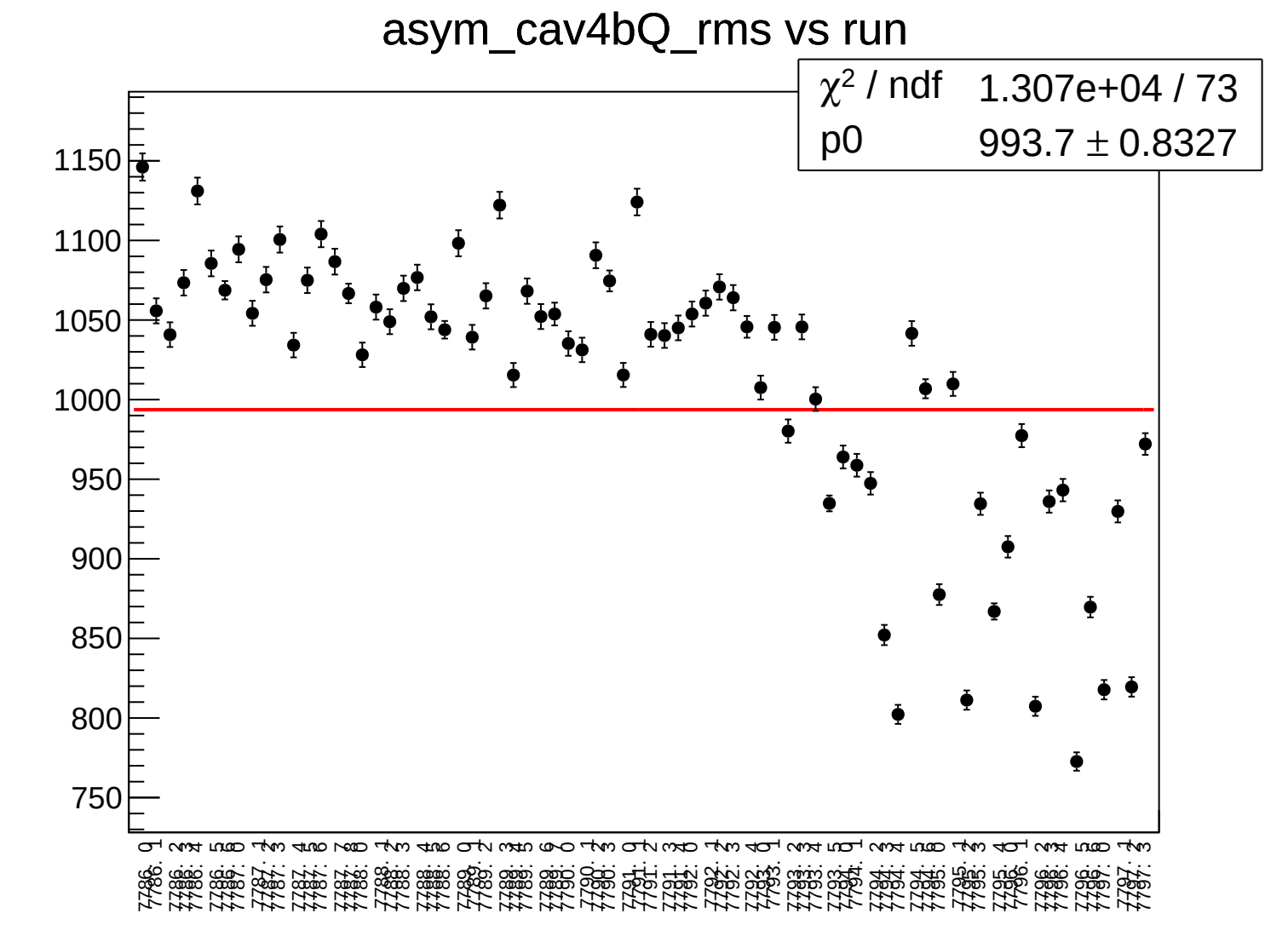

asym_bcm_dg_ds_mean vs run
χ² / ndf 15.18 / 73
p0 313.3 ± 411.5
pull
Entries 74
Mean 213.1
Std Dev 176.7

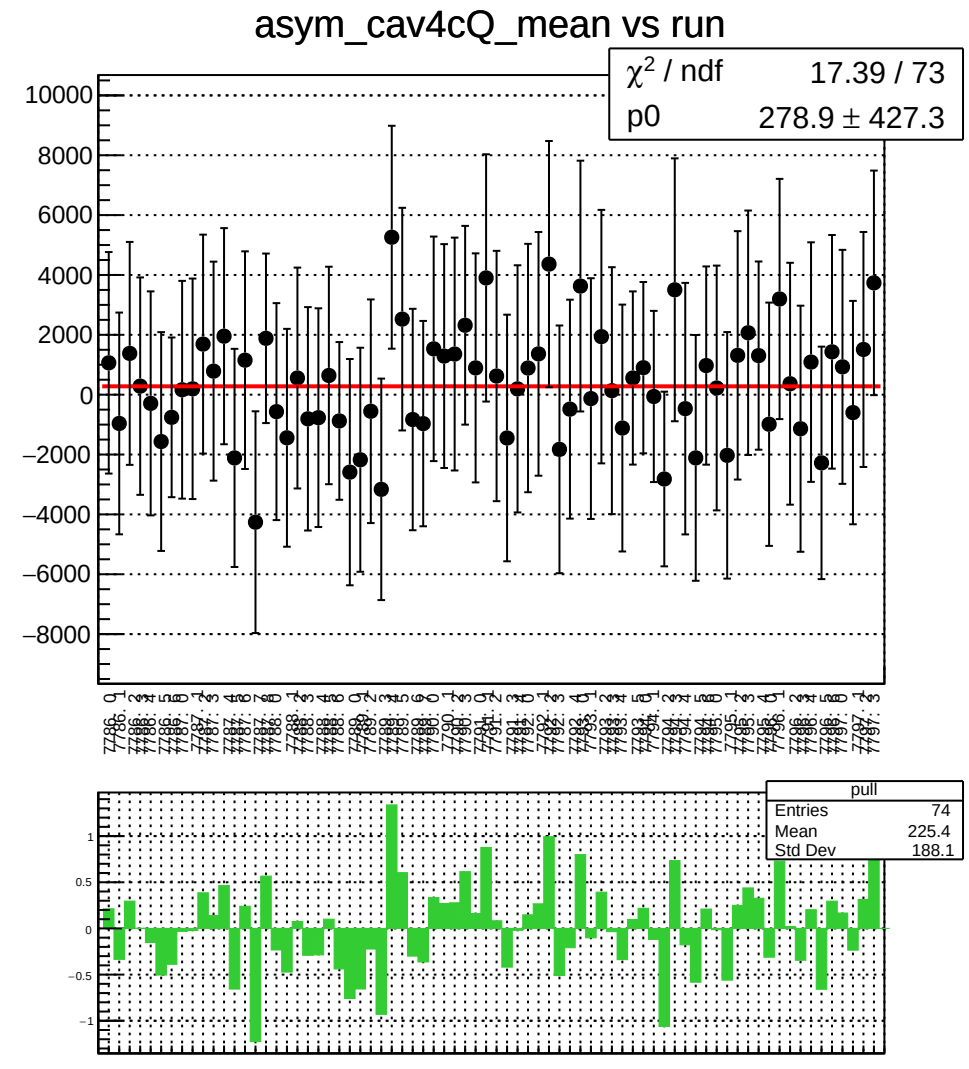

pull1D
Entries 74
Mean 0.006121
Std Dev 0.4528

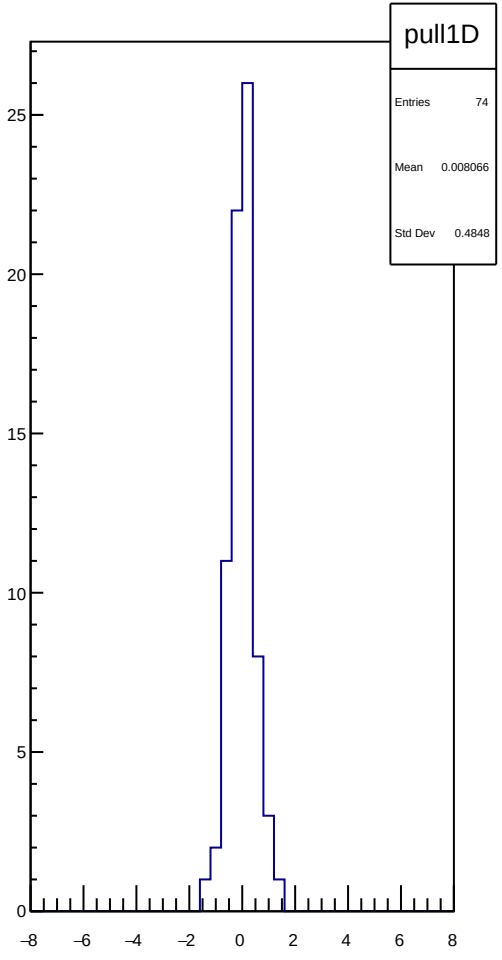

asym_bcm_dg_ds_rms vs run
χ^2 / ndf 1.118e+04 / 73
p0 347.5 ± 0.291
420
400
380
360
340
320
300
280
260

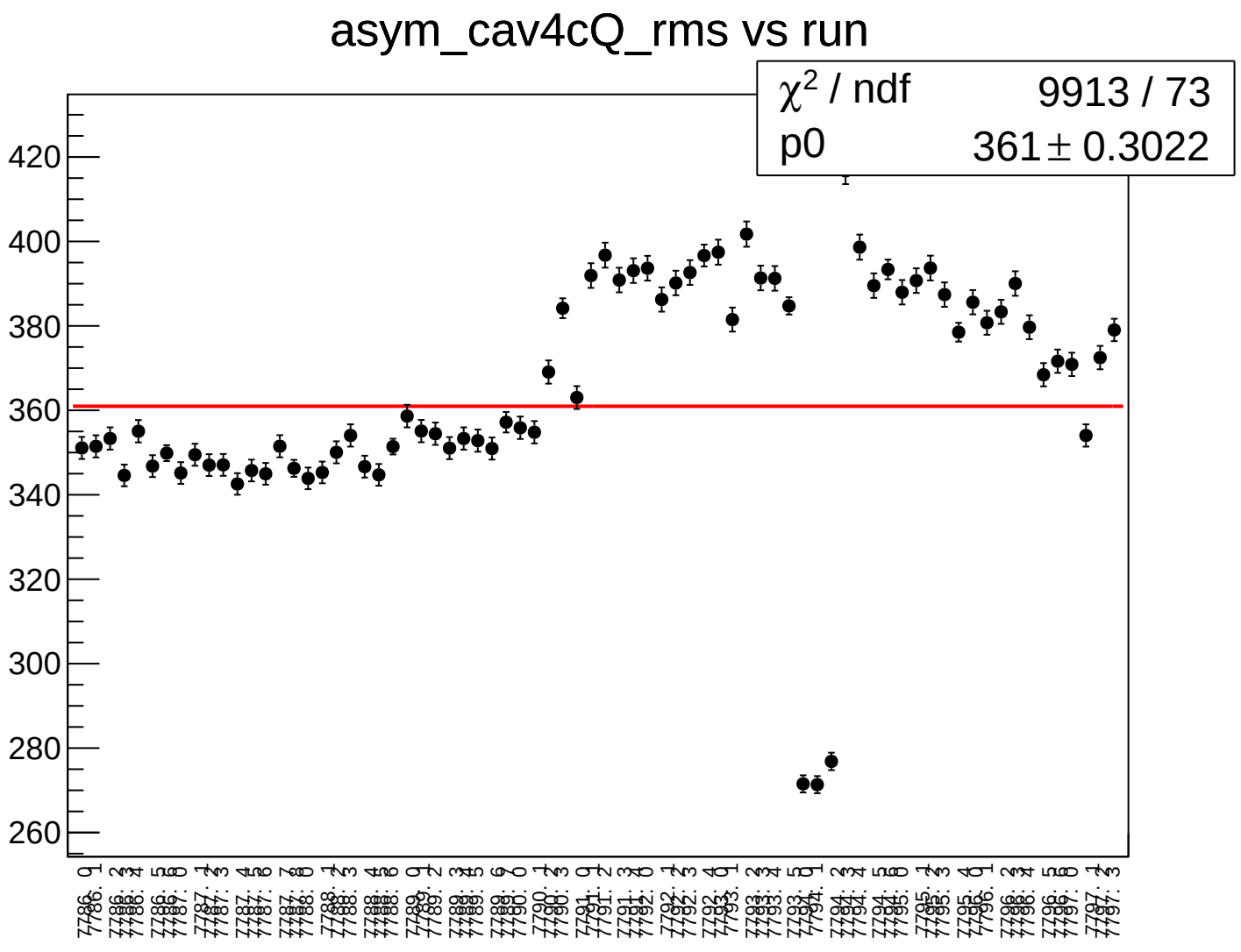

asym_cav4bQ_mean vs run
χ² / ndf 63.17 / 73
p0 −1106 ± 1178
30000
20000
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 17.13
Std Dev 72.64
1.5
1
0.5
0
−0.5
−1
−1.5
−2

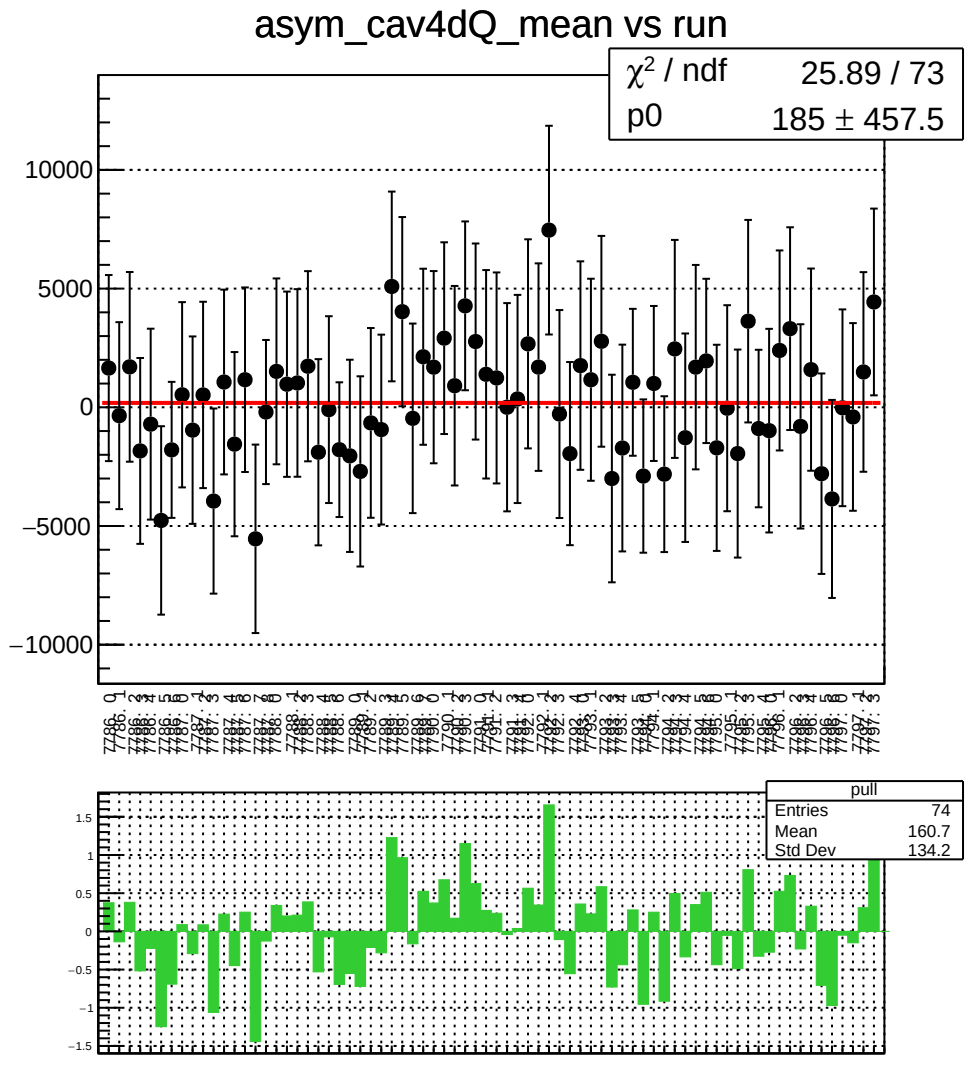

pull1D
Entries 74
Mean −0.01317
Std Dev 0.9238
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

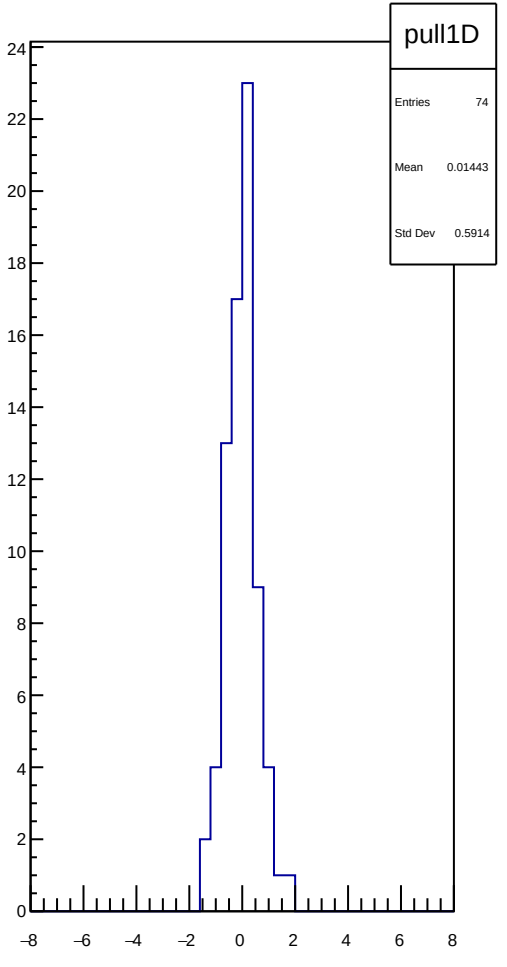

asym_cav4bQ_rms vs run
χ² / ndf 1.307e+04 / 73
p0 993.7 ± 0.8327
1150
1100
1050
1000
950
900
850
800
750

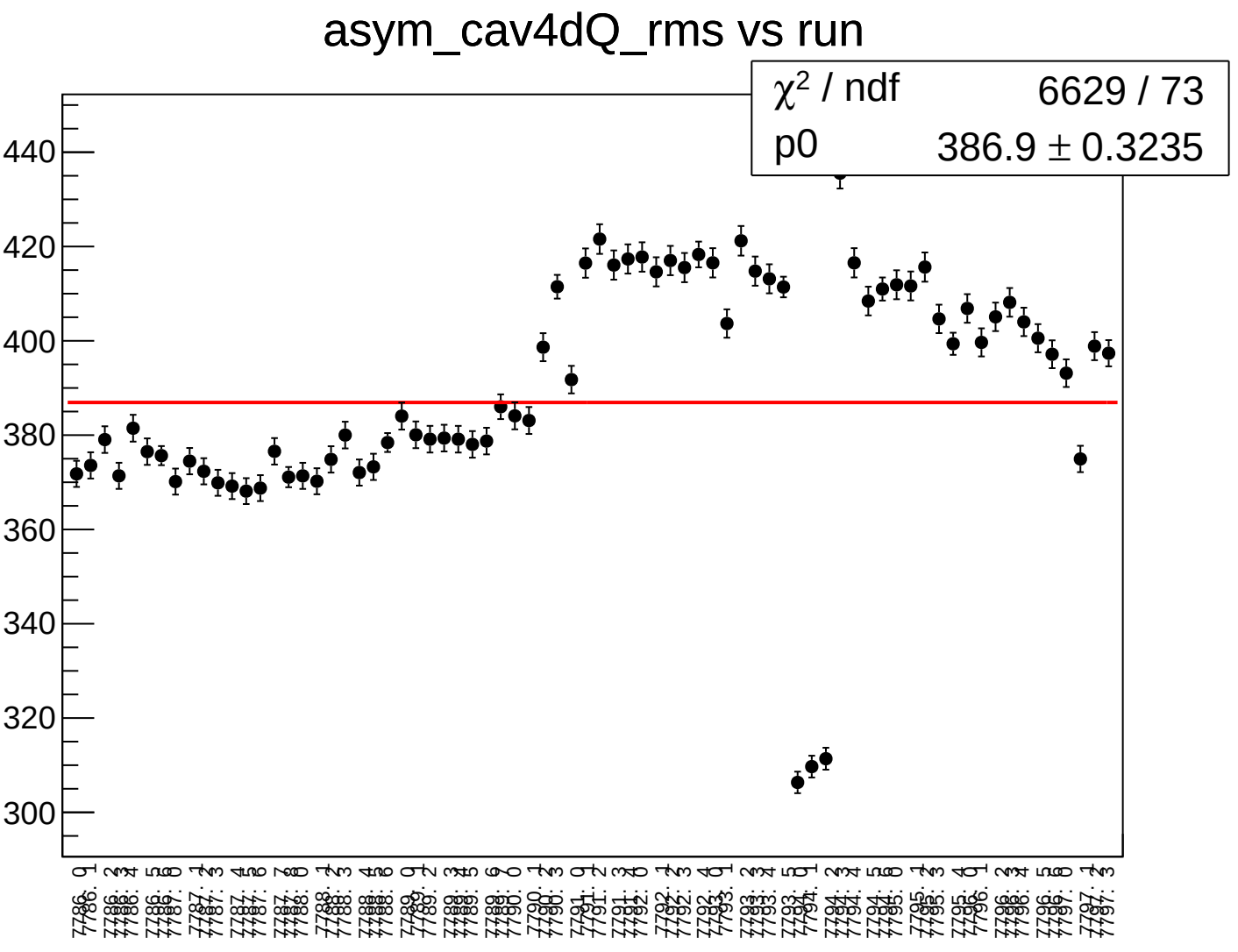

asym_cav4cQ_mean vs run
χ² / ndf 17.39 / 73
p0 278.9 ± 427.3
pull
Entries 74
Mean 225.4
Std Dev 188.1

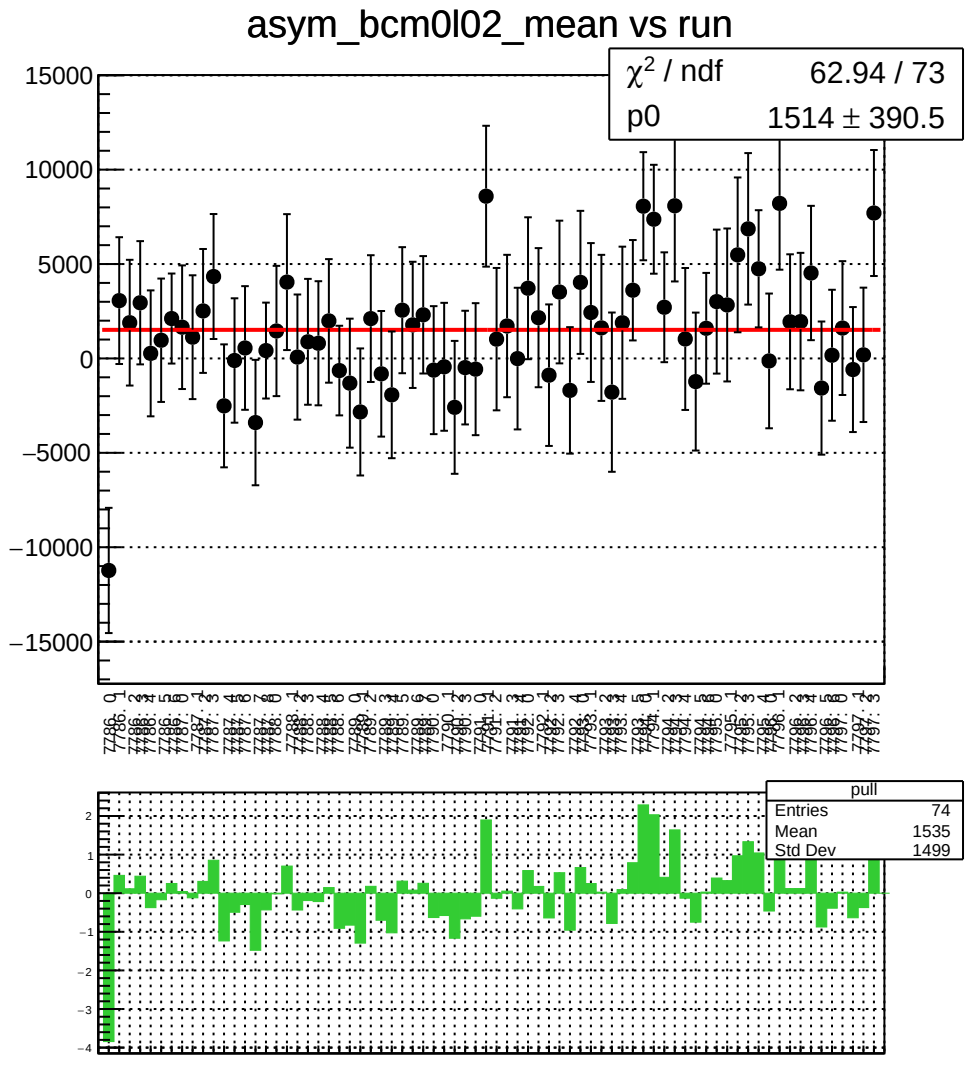

pull1D
Entries 74
Mean 0.008066
Std Dev 0.4848

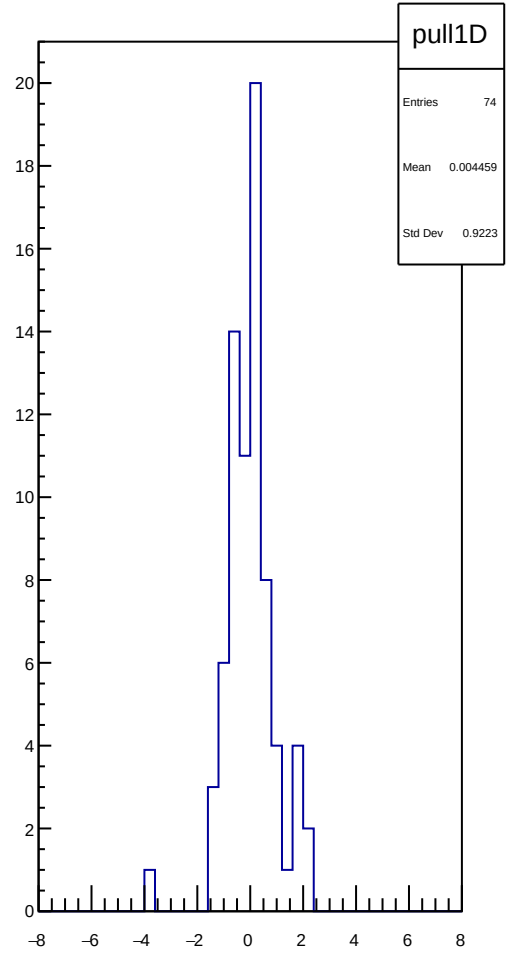

asym_cav4cQ_rms vs run
χ² / ndf 9913 / 73
p0 361 ± 0.3022
420
400
380
360
340
320
300
280
260

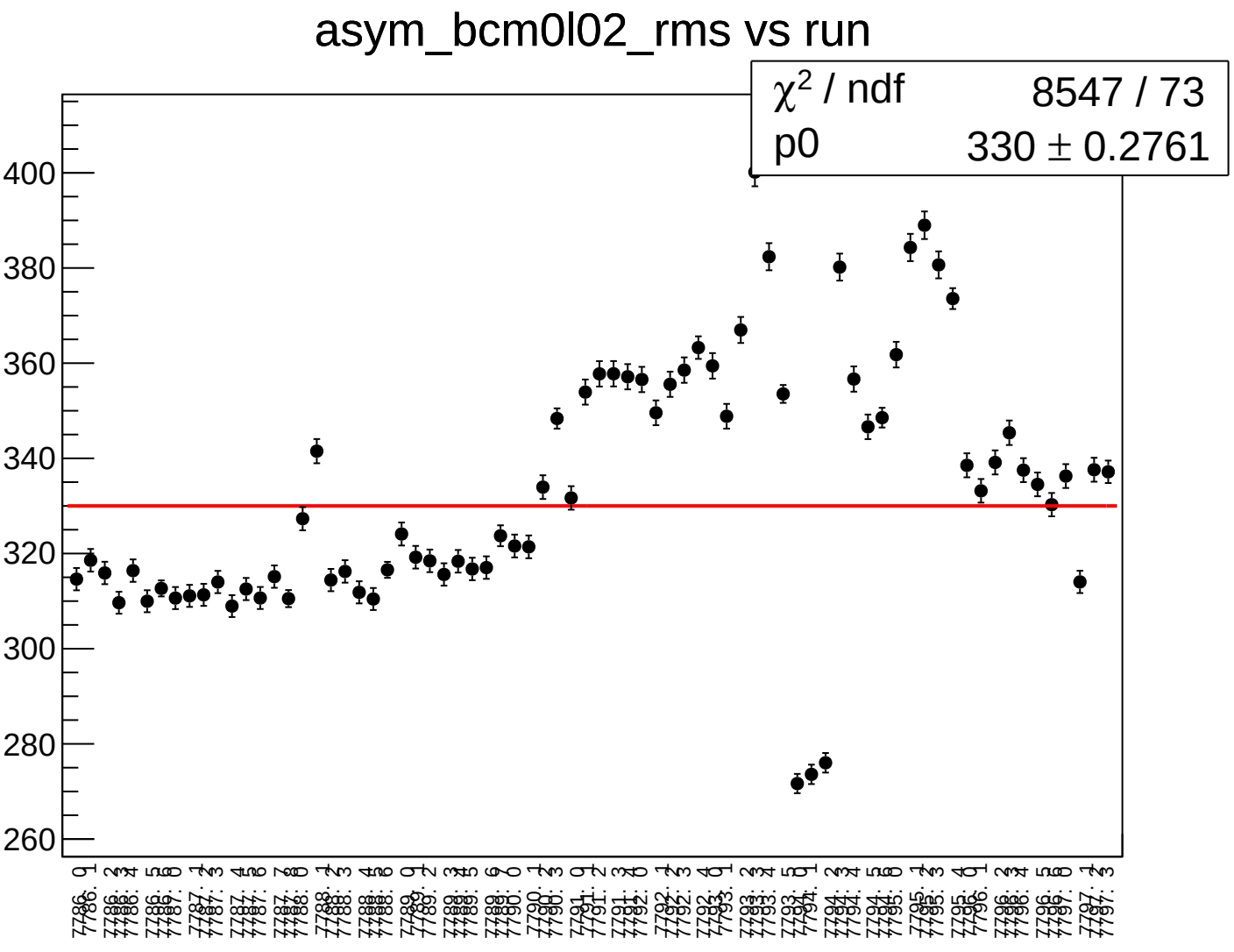

asym_cav4dQ_mean vs run
χ² / ndf 25.89 / 73
p0 185 ± 457.5
10000
5000
0
−5000
−10000
pull
Entries 74
Mean 160.7
Std Dev 134.2
1.5
1
0.5
0
−0.5
−1
−1.5

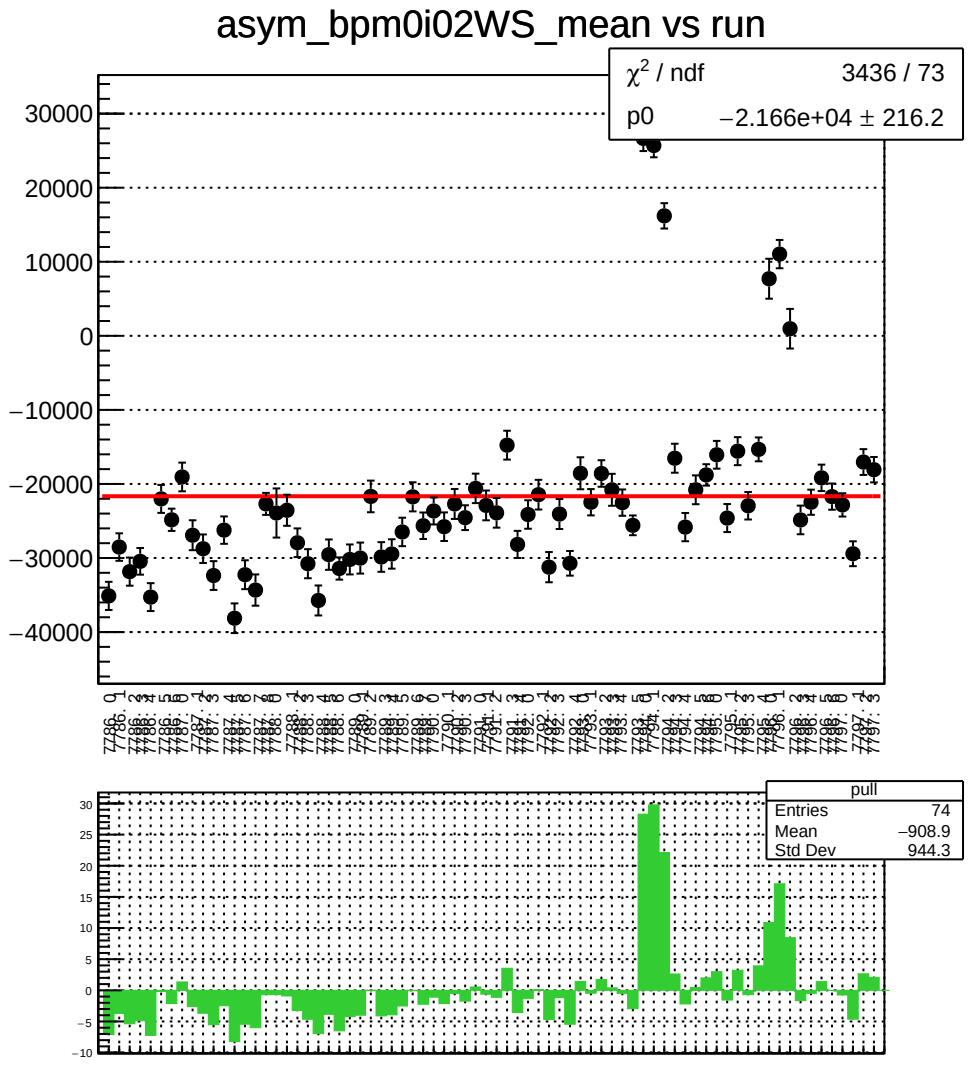

pull1D
Entries 74
Mean 0.01443
Std Dev 0.5914
24
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

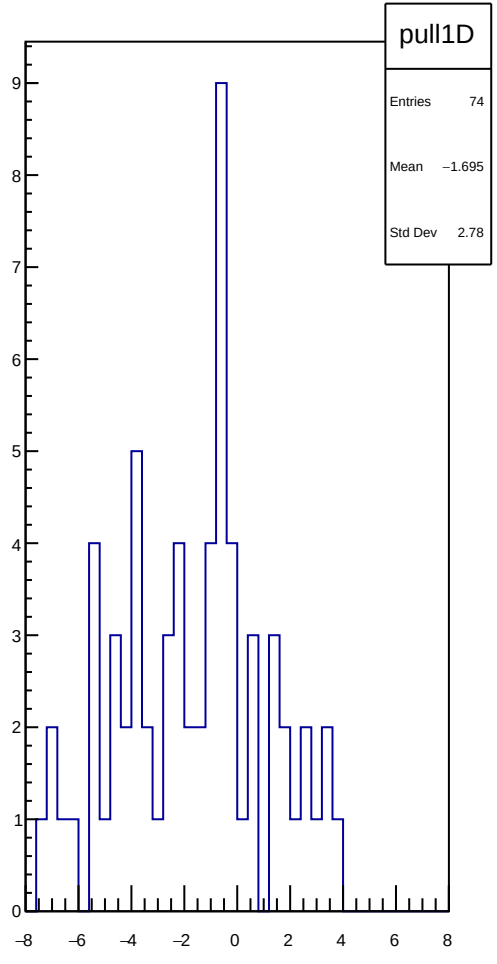

asym_cav4dQ_rms vs run
χ^2 / ndf 6629 / 73
p0 386.9 ± 0.3235
440
420
400
380
360
340
320
300

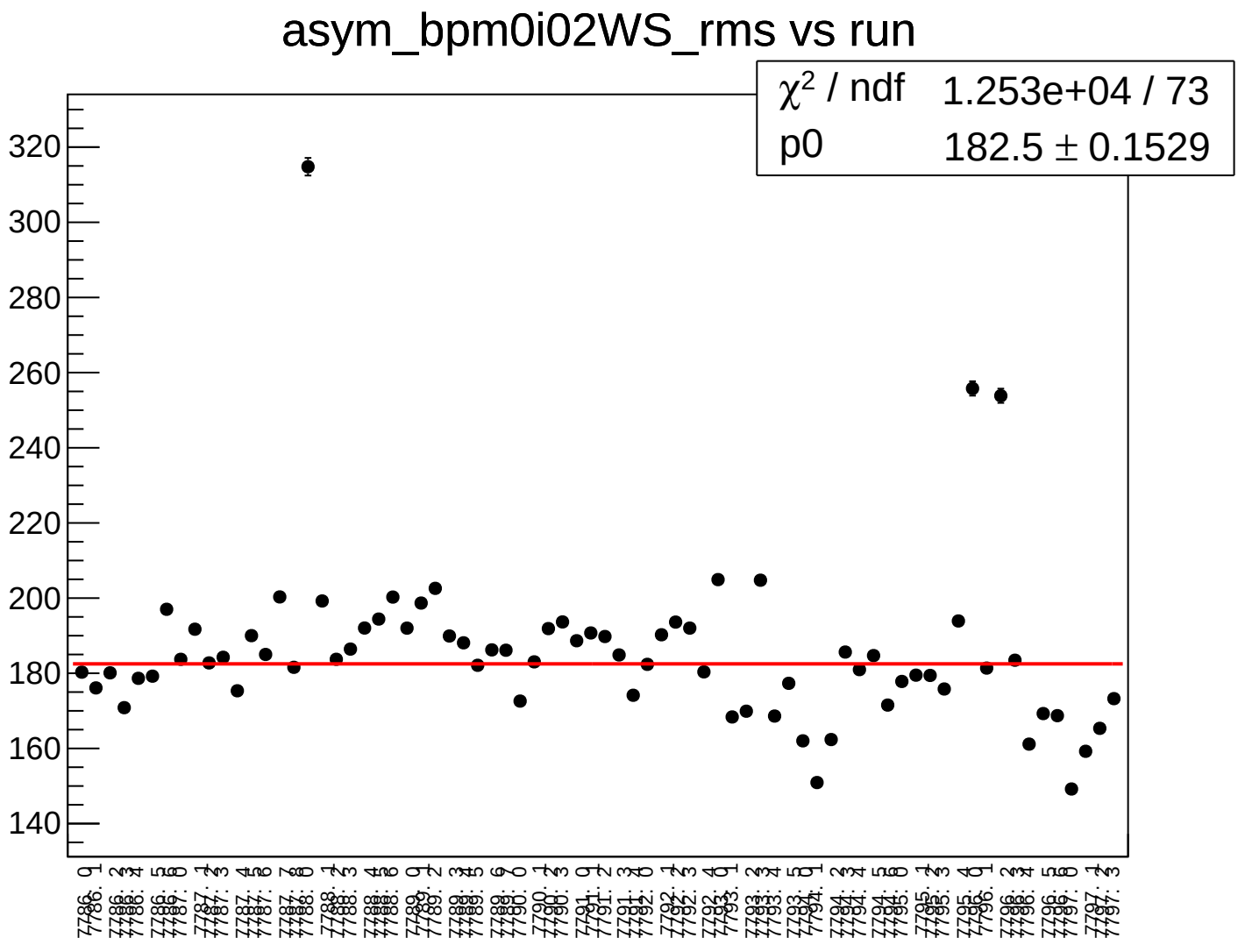

asym_bcm0l02_mean vs run
χ² / ndf 62.94 / 73
p0 1514 ± 390.5
pull
Entries 74
Mean 1535
Std Dev 1499

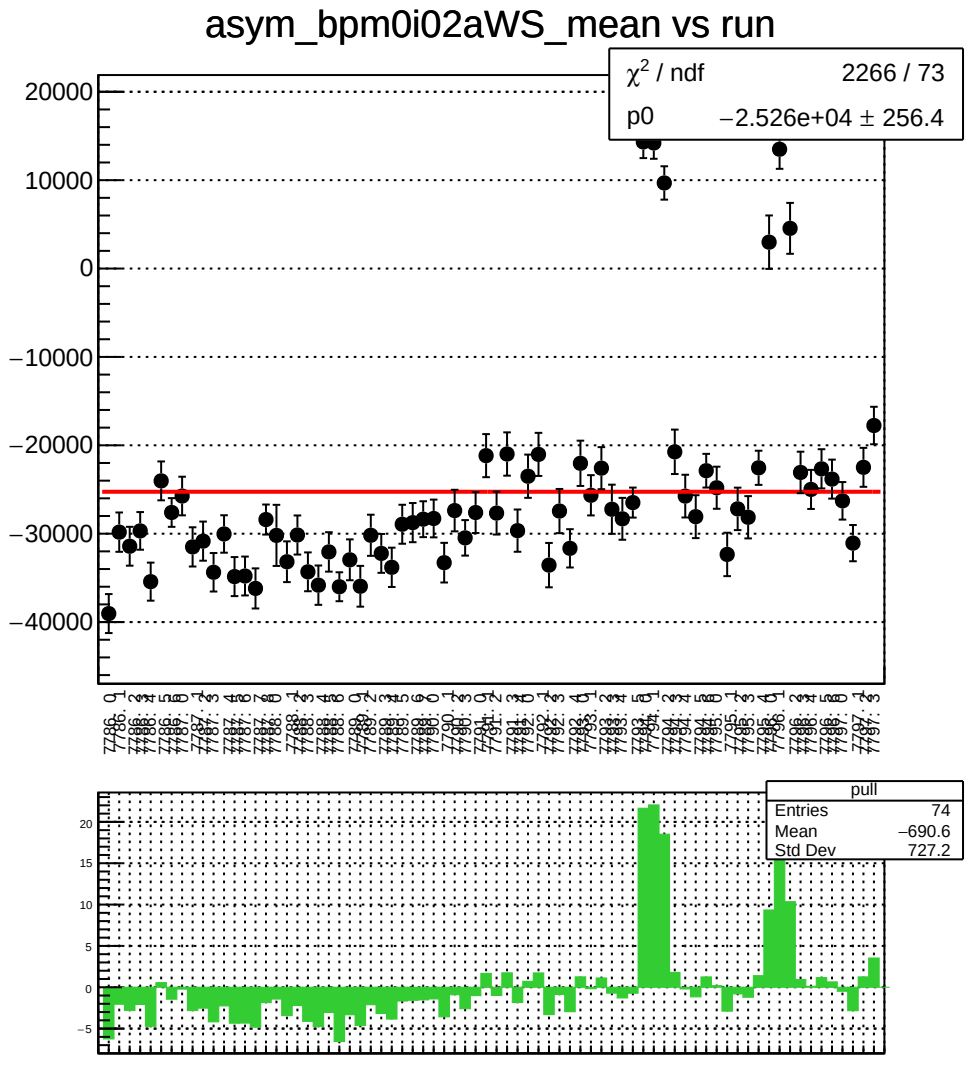

pull1D
Entries 74
Mean 0.004459
Std Dev 0.9223

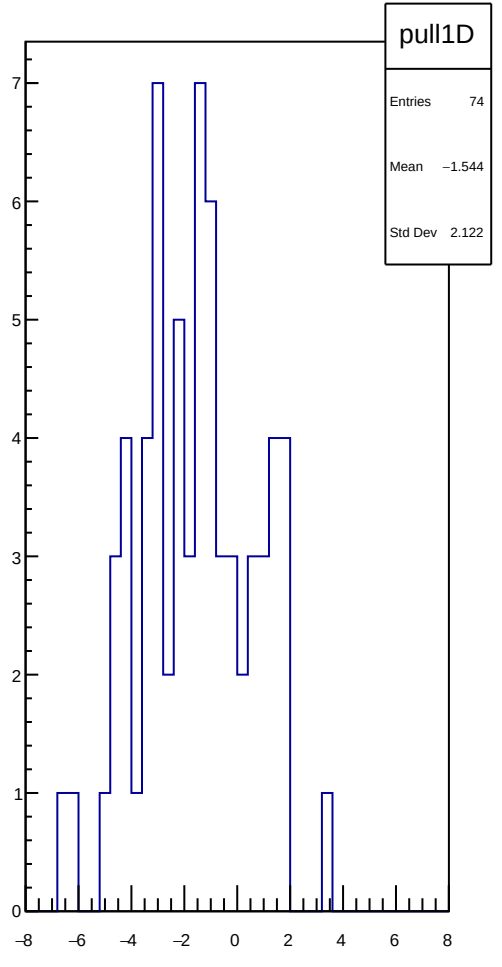

asym_bcm0l02_rms vs run
χ² / ndf 8547 / 73
p0 330 ± 0.2761
400
380
360
340
320
300
280
260

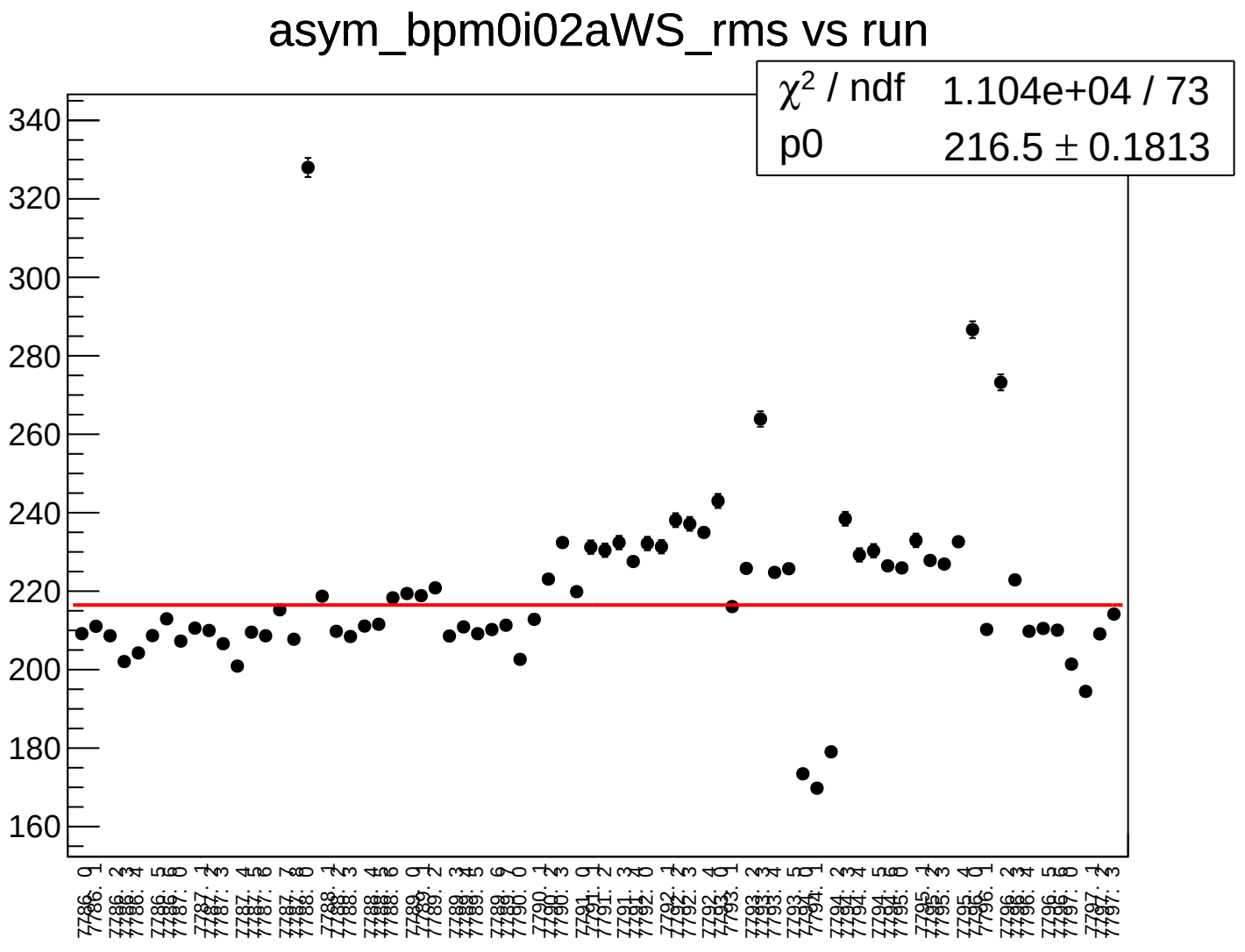

asym_bpm0i02WS_mean vs run
χ² / ndf 3436 / 73
p0 −2.166e+04 ± 216.2
pull
Entries 74
Mean −908.9
Std Dev 944.3

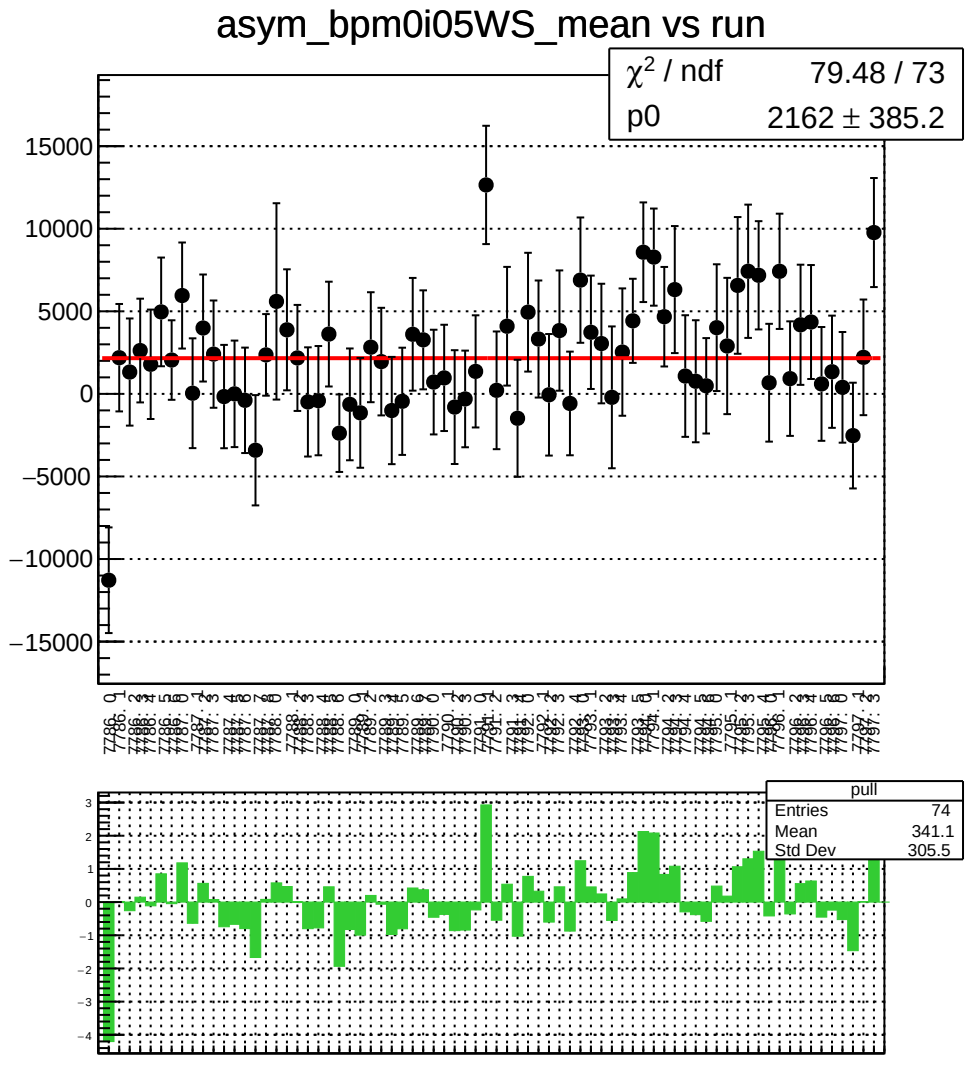

pull1D
Entries 74
Mean −1.695
Std Dev 2.78

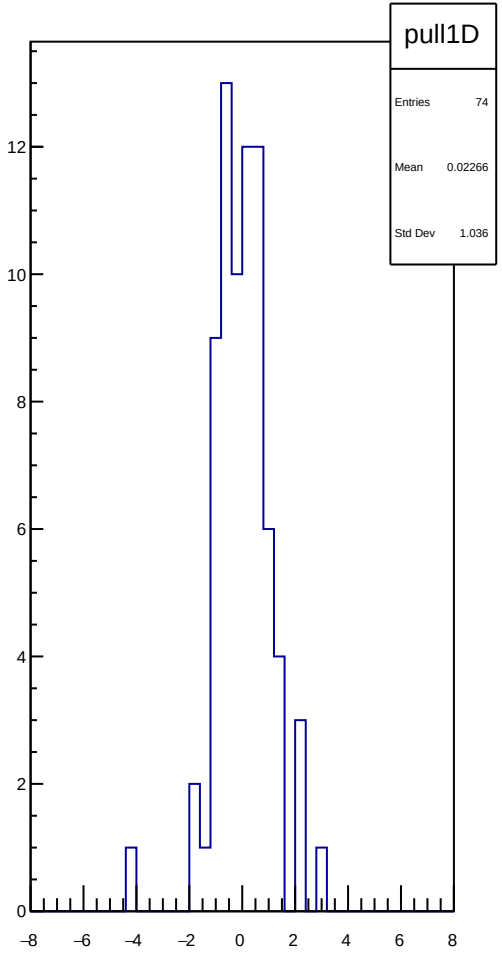

asym_bpm0i02WS_rms vs run
χ² / ndf 1.253e+04 / 73
p0 182.5 ± 0.1529
320
300
280
260
240
220
200
180
160
140

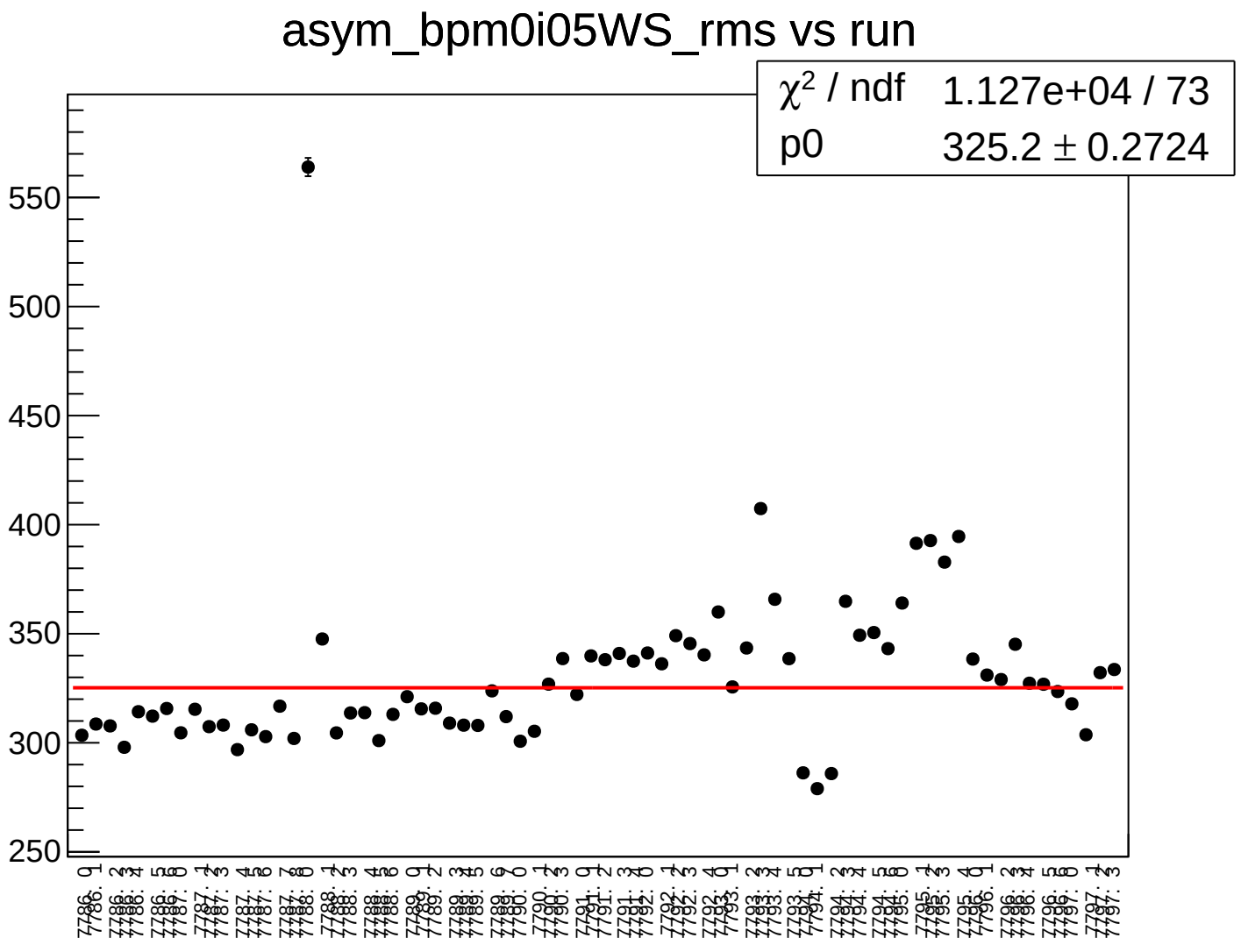

asym_bpm0i02aWS_mean vs run
χ² / ndf 2266 / 73
p0 −2.526e+04 ± 256.4
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 74
Mean −690.6
Std Dev 727.2
20
15
10
5
0
−5

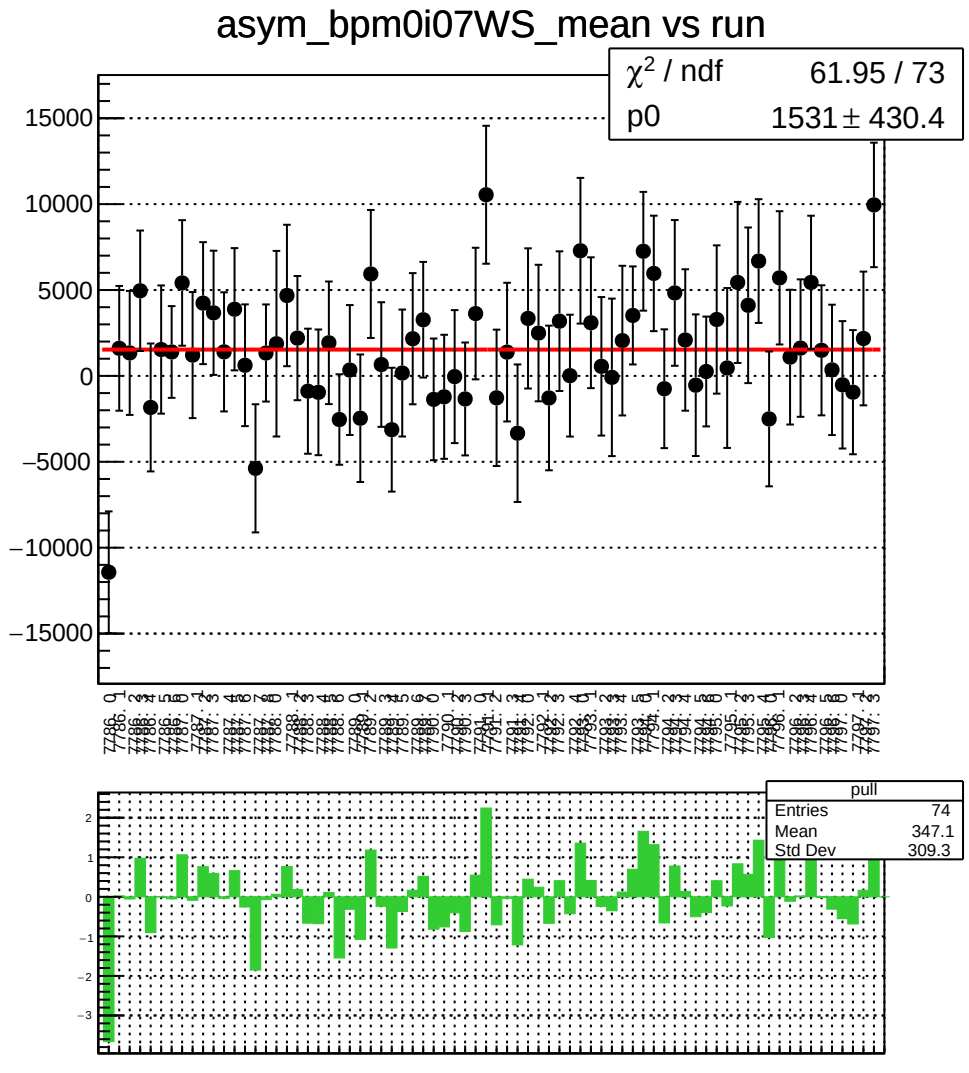

pull1D
Entries 74
Mean −1.544
Std Dev 2.122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

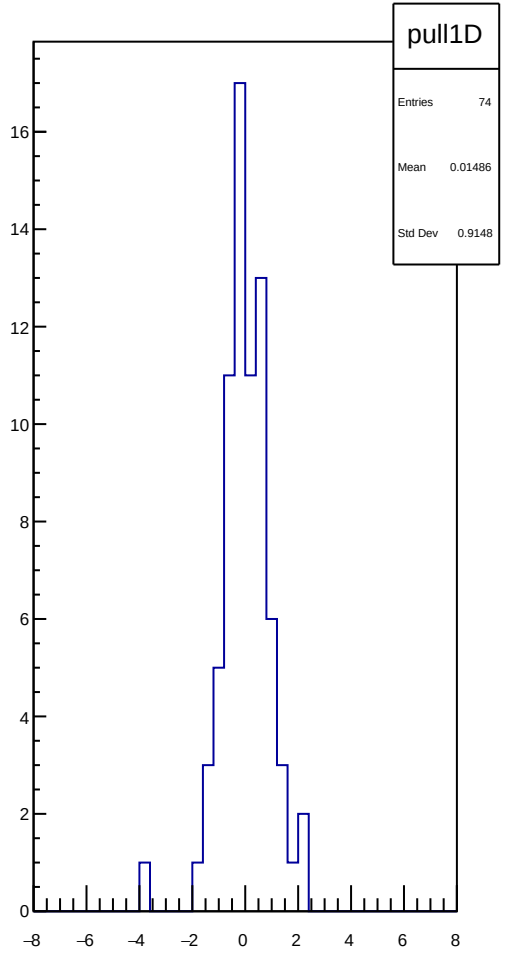

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.104e+04 / 73
p0 216.5 ± 0.1813
340
320
300
280
260
240
220
200
180
160

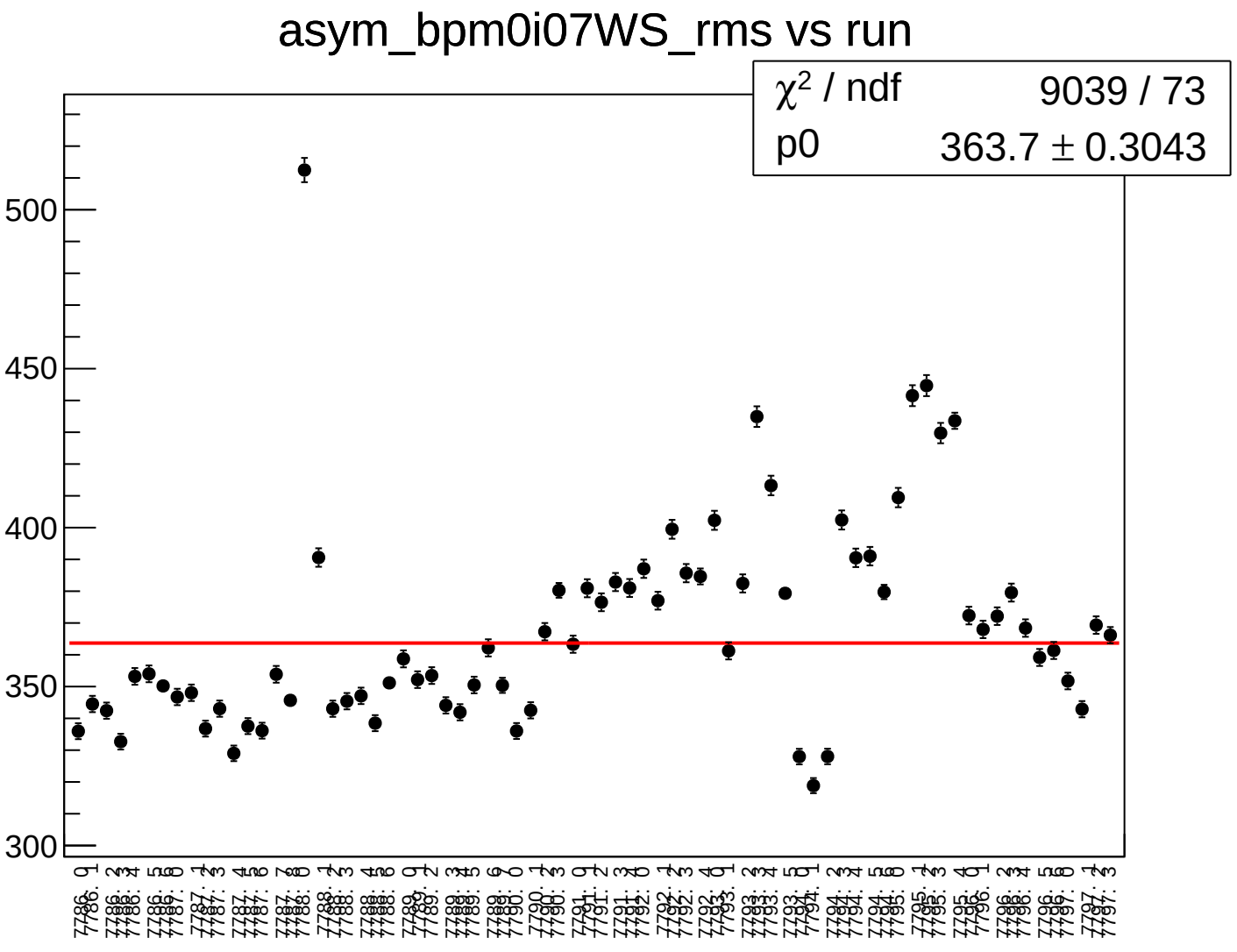

asym_bpm0i05WS_mean vs run
χ² / ndf 79.48 / 73
p0 2162 ± 385.2
pull
Entries 74
Mean 341.1
Std Dev 305.5

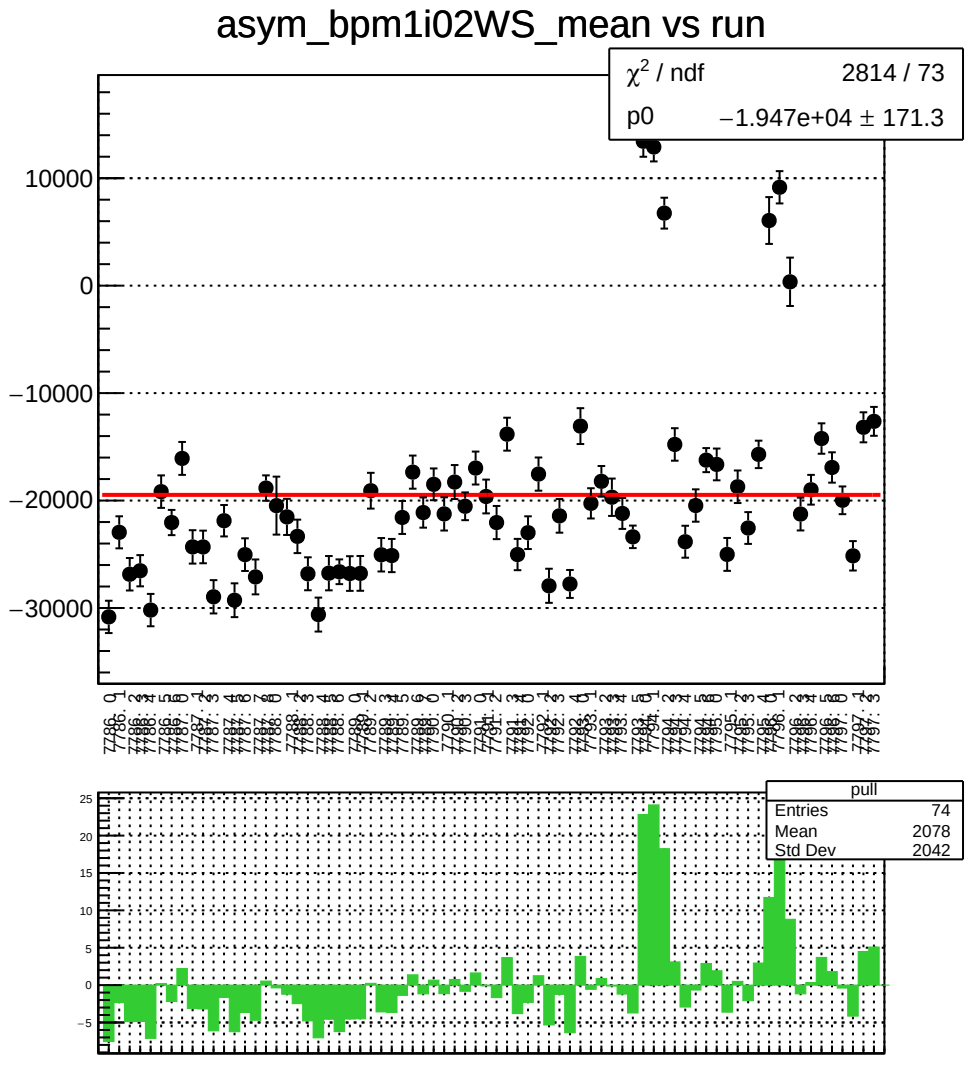

pull1D
Entries 74
Mean 0.02266
Std Dev 1.036

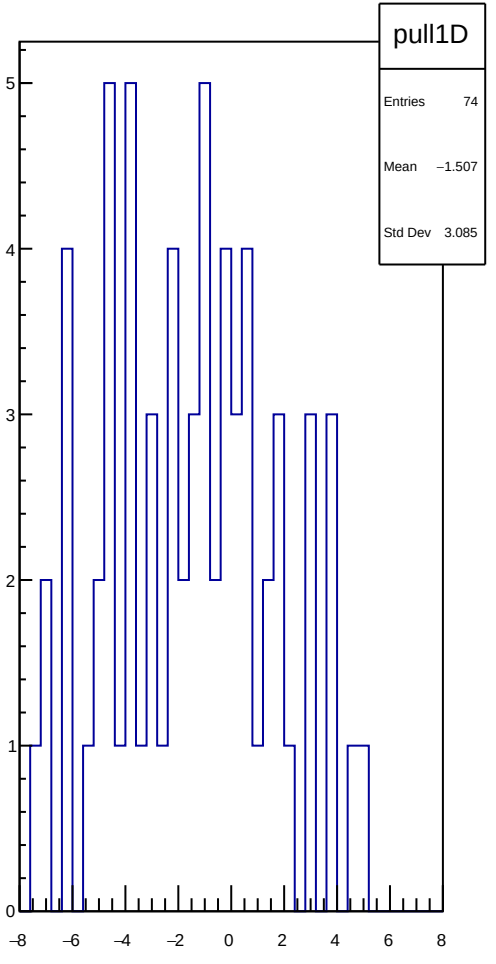

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.127e+04 / 73
p0 325.2 ± 0.2724
550
500
450
400
350
300
250

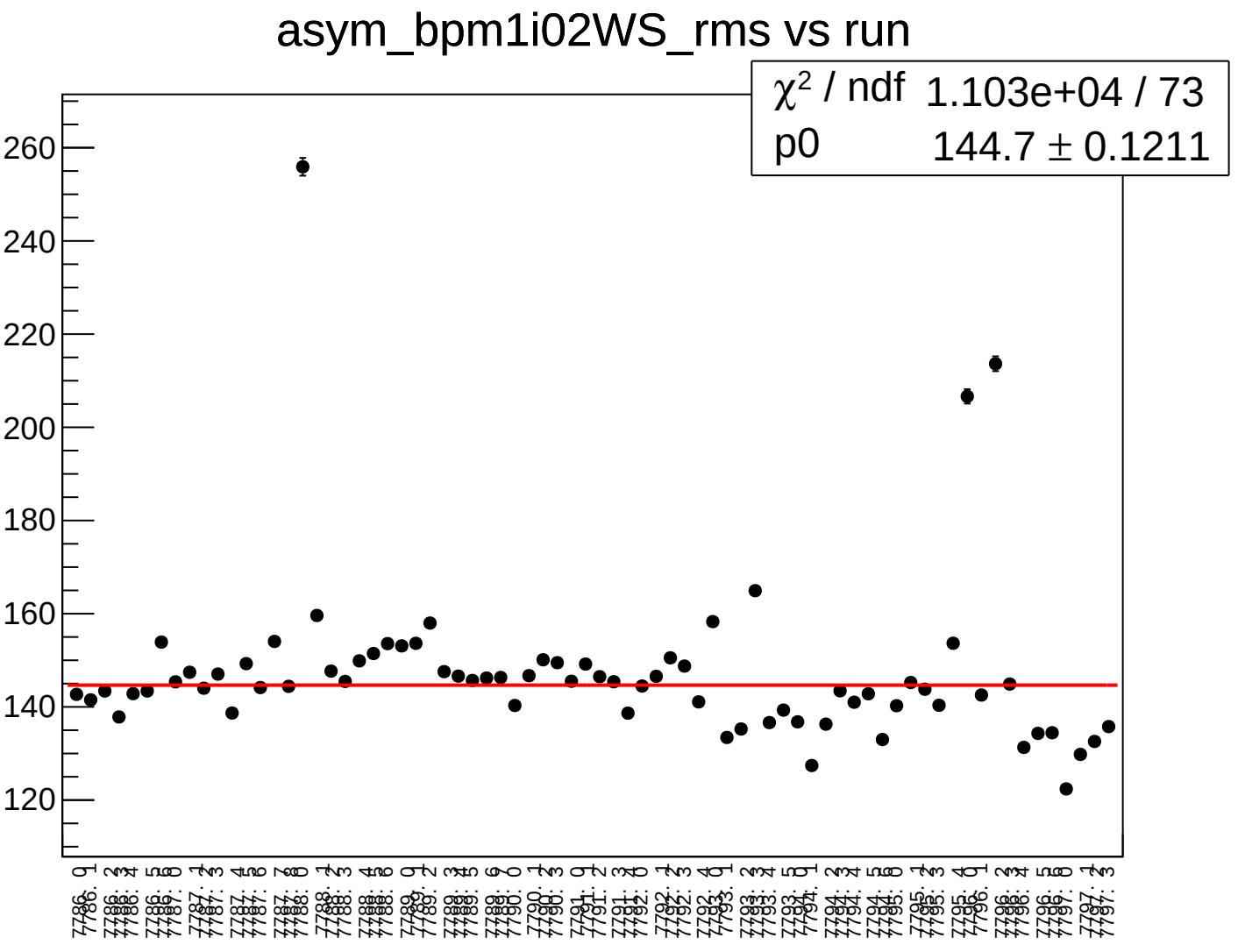

asym_bpm0i07WS_mean vs run
χ² / ndf 61.95 / 73
p0 1531 ± 430.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 347.1
Std Dev 309.3
2
1
0
−1
−2
−3

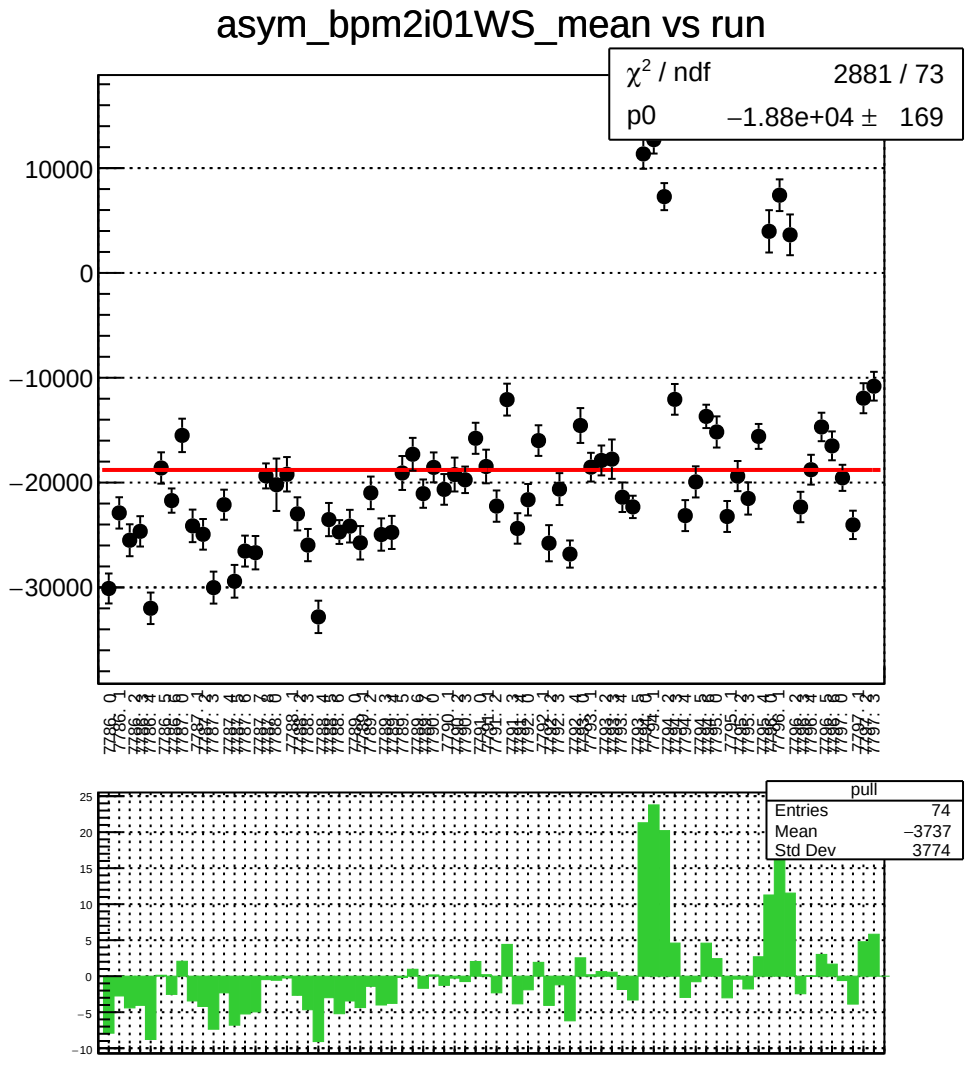

pull1D
Entries 74
Mean 0.01486
Std Dev 0.9148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

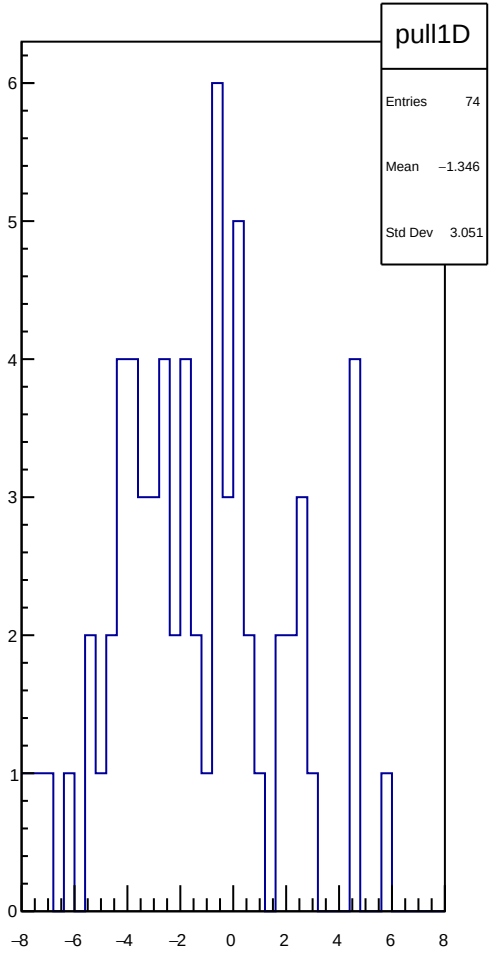

asym_bpm0i07WS_rms vs run
χ² / ndf 9039 / 73
p0 363.7 ± 0.3043
500
450
400
350
300

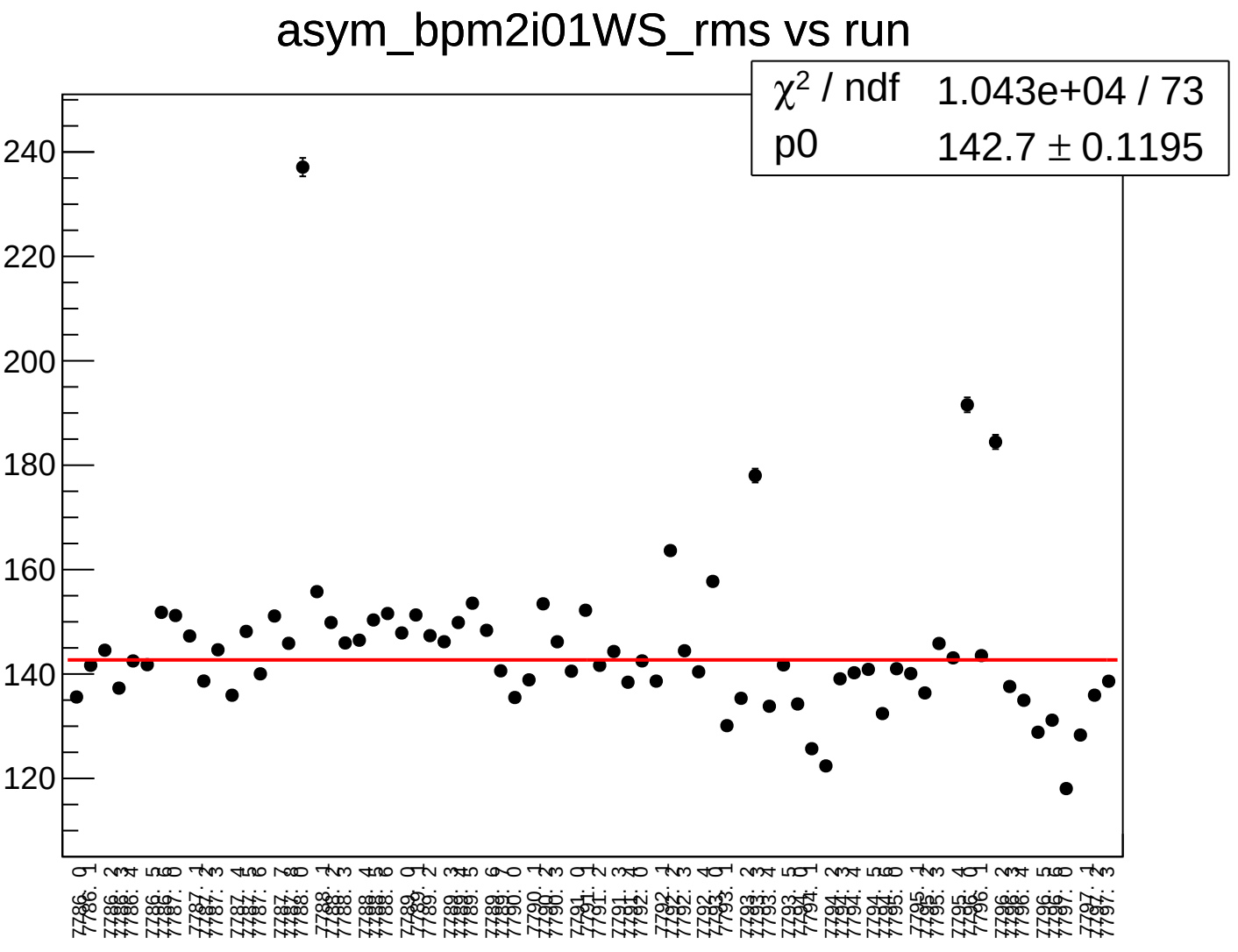

asym_bpm1i02WS_mean vs run
χ² / ndf 2814 / 73
p0 −1.947e+04 ± 171.3
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 2078
Std Dev 2042
25
20
15
10
5
0
−5

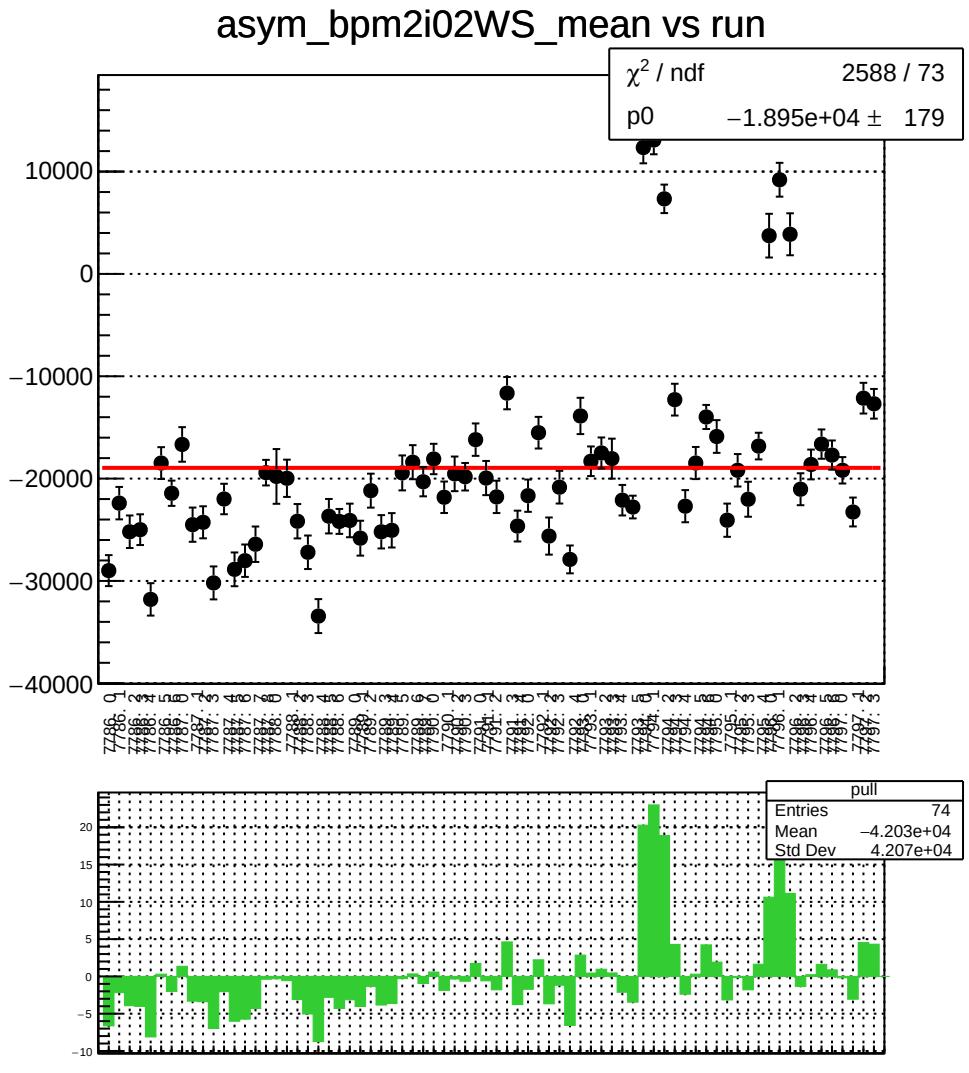

pull1D
Entries 74
Mean −1.507
Std Dev 3.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

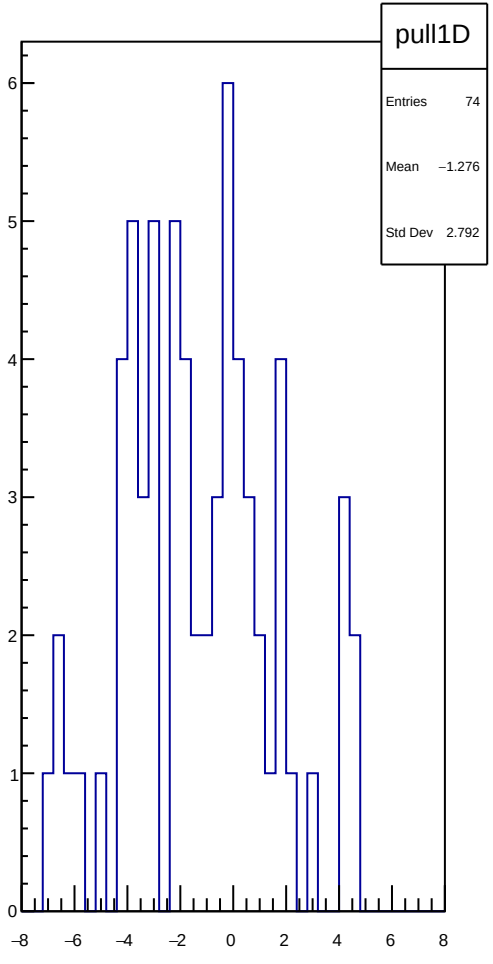

asym_bpm1i02WS_rms vs run
χ² / ndf 1.103e+04 / 73
p0 144.7 ± 0.1211
260
240
220
200
180
160
140
120

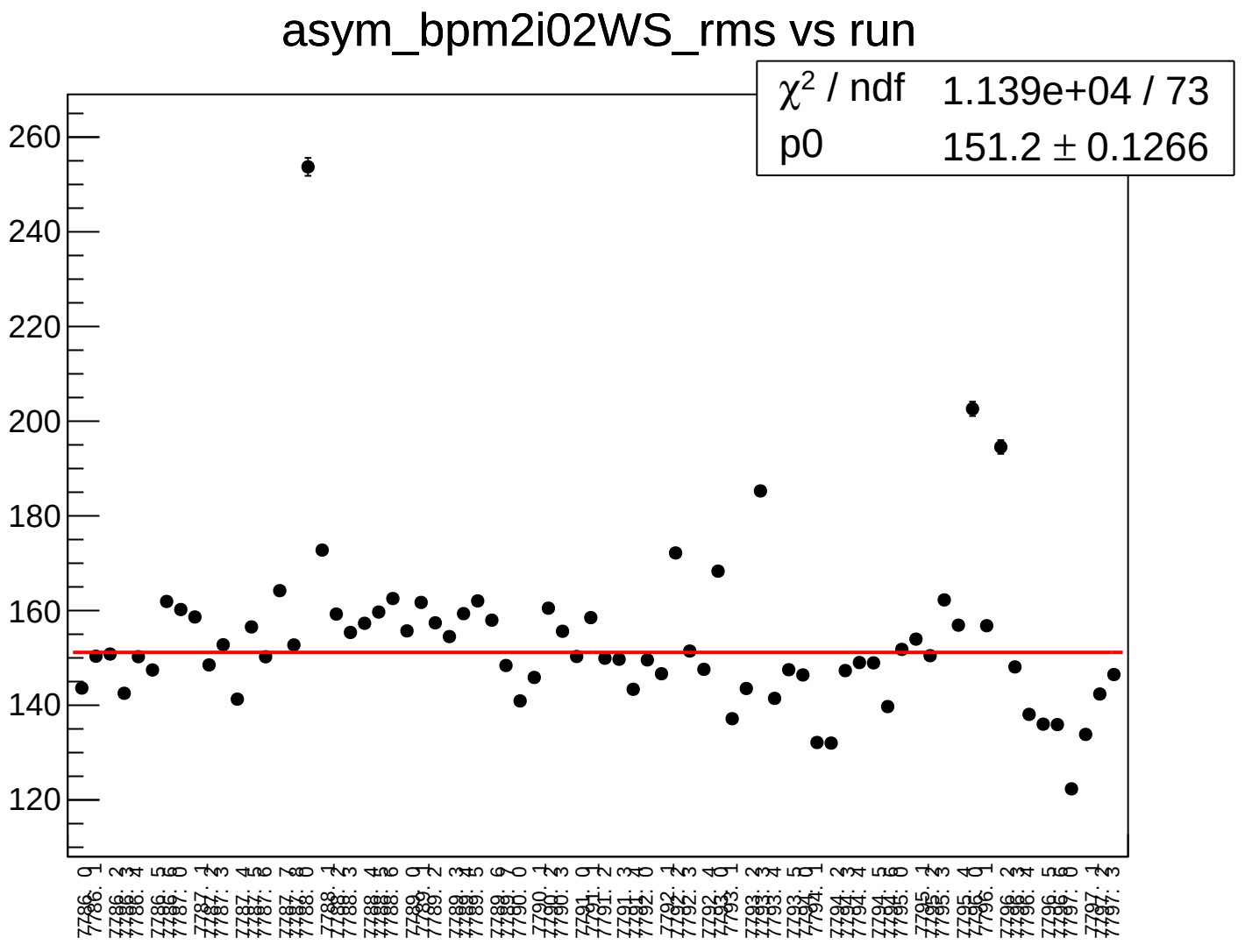

asym_bpm2i01WS_mean vs run
χ² / ndf 2881 / 73
p0 −1.88e+04 ± 169
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean −3737
Std Dev 3774
25
20
15
10
5
0
−5
−10

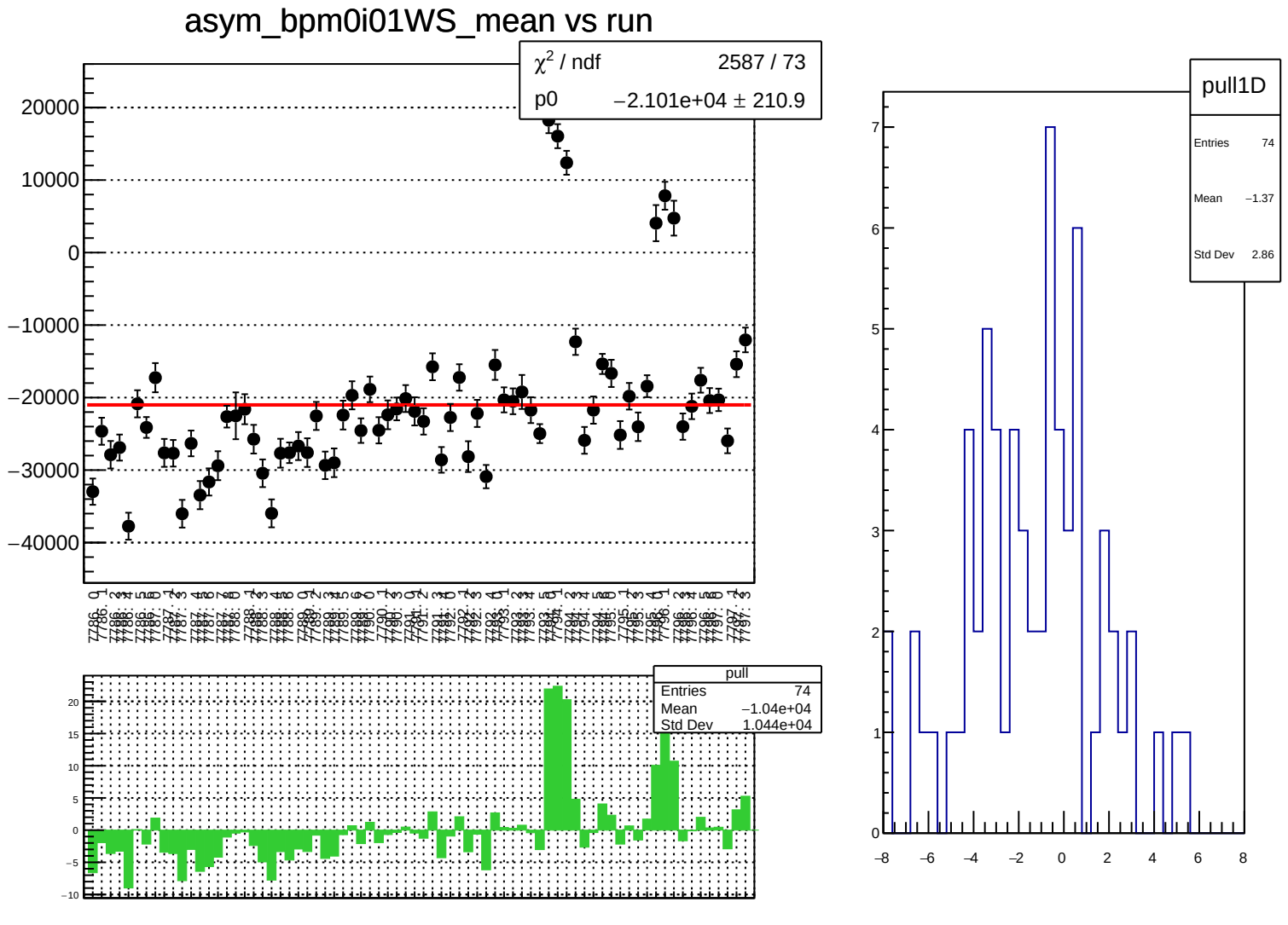

pull1D
Entries 74
Mean −1.346
Std Dev 3.051
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

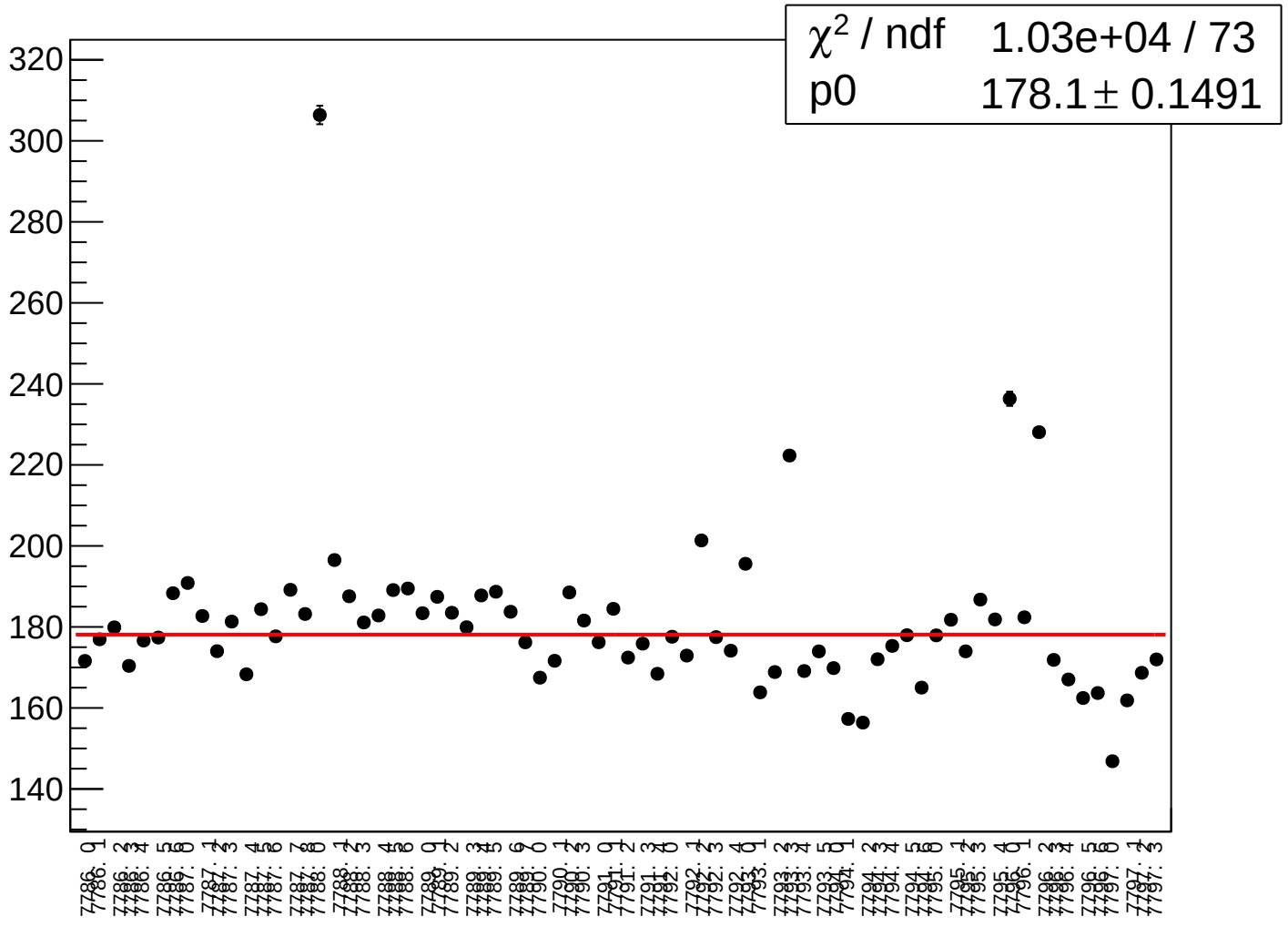

asym_bpm2i01WS_rms vs run
χ² / ndf 1.043e+04 / 73
p0 142.7 ± 0.1195
240
220
200
180
160
140
120

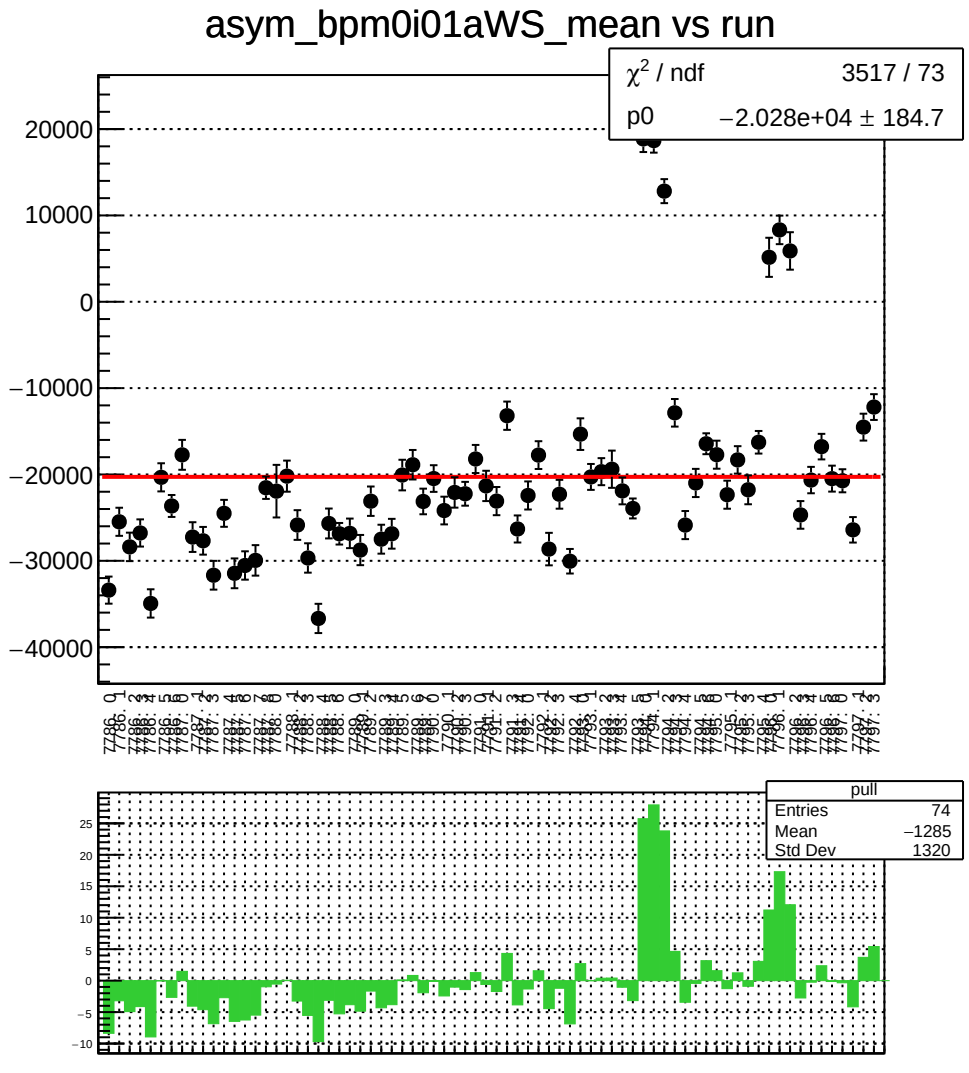

asym_bpm2i02WS_mean vs run
χ² / ndf 2588 / 73
p0 −1.895e+04 ± 179
pull
Entries 74
Mean −4.203e+04
Std Dev 4.207e+04

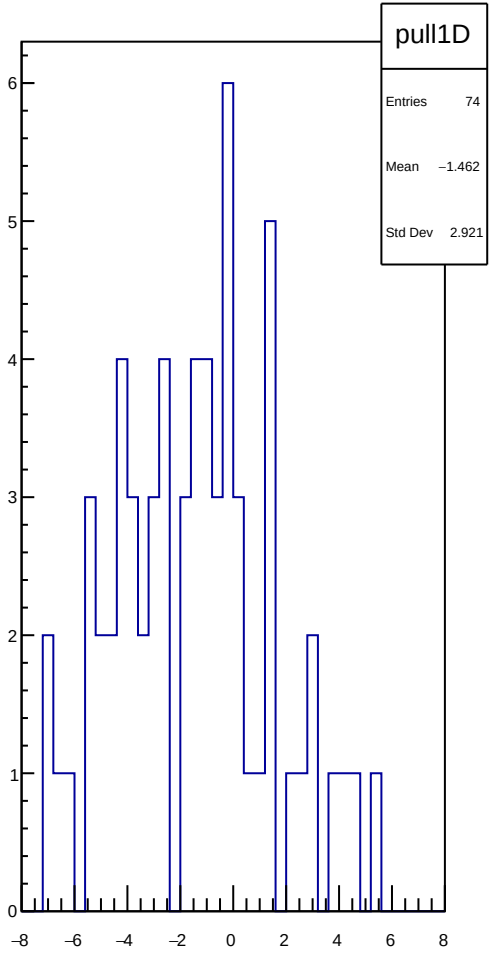

pull1D
Entries 74
Mean −1.276
Std Dev 2.792

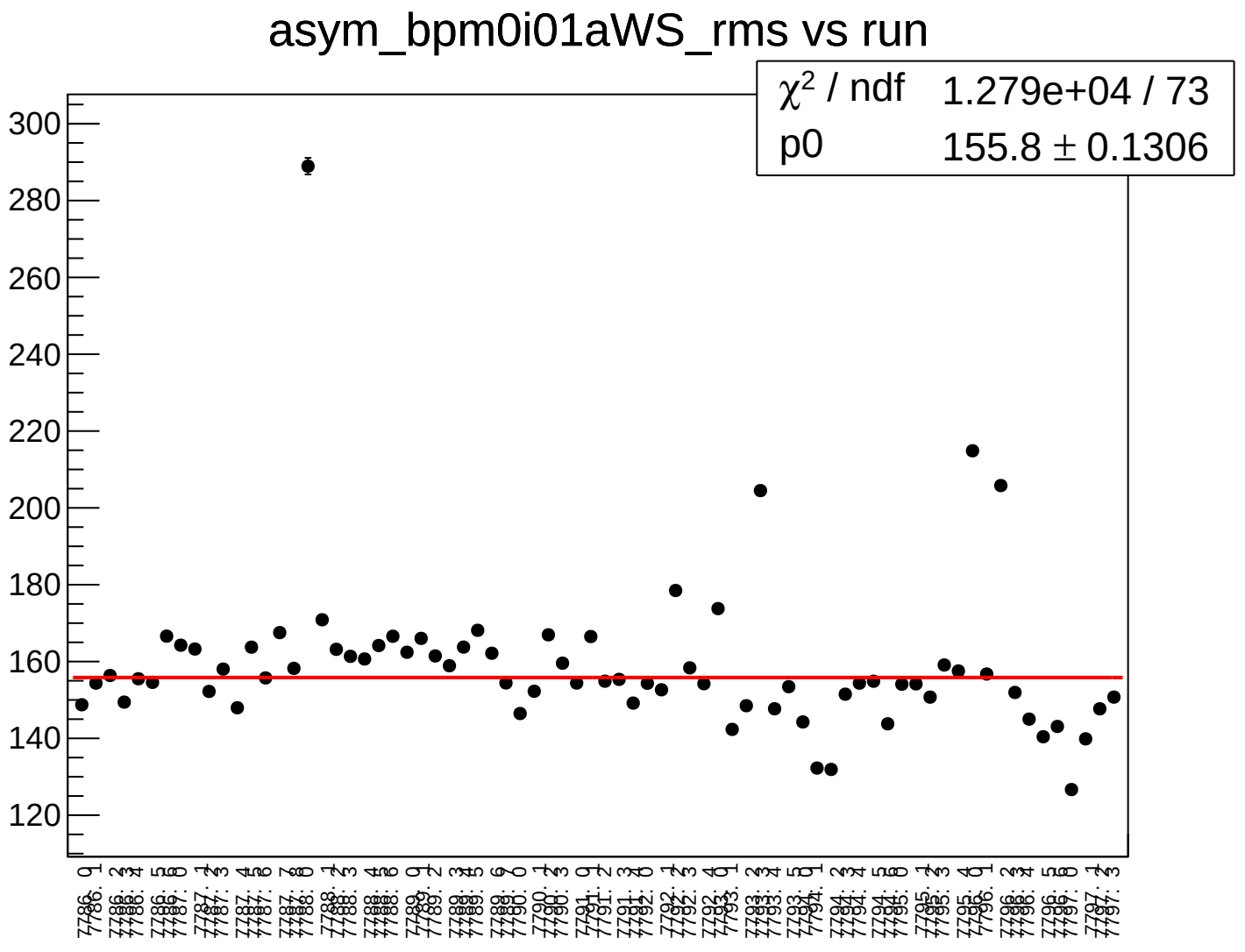

asym_bpm2i02WS_rms vs run
χ^2 / ndf 1.139e+04 / 73
p0 151.2 ± 0.1266
260
240
220
200
180
160
140
120

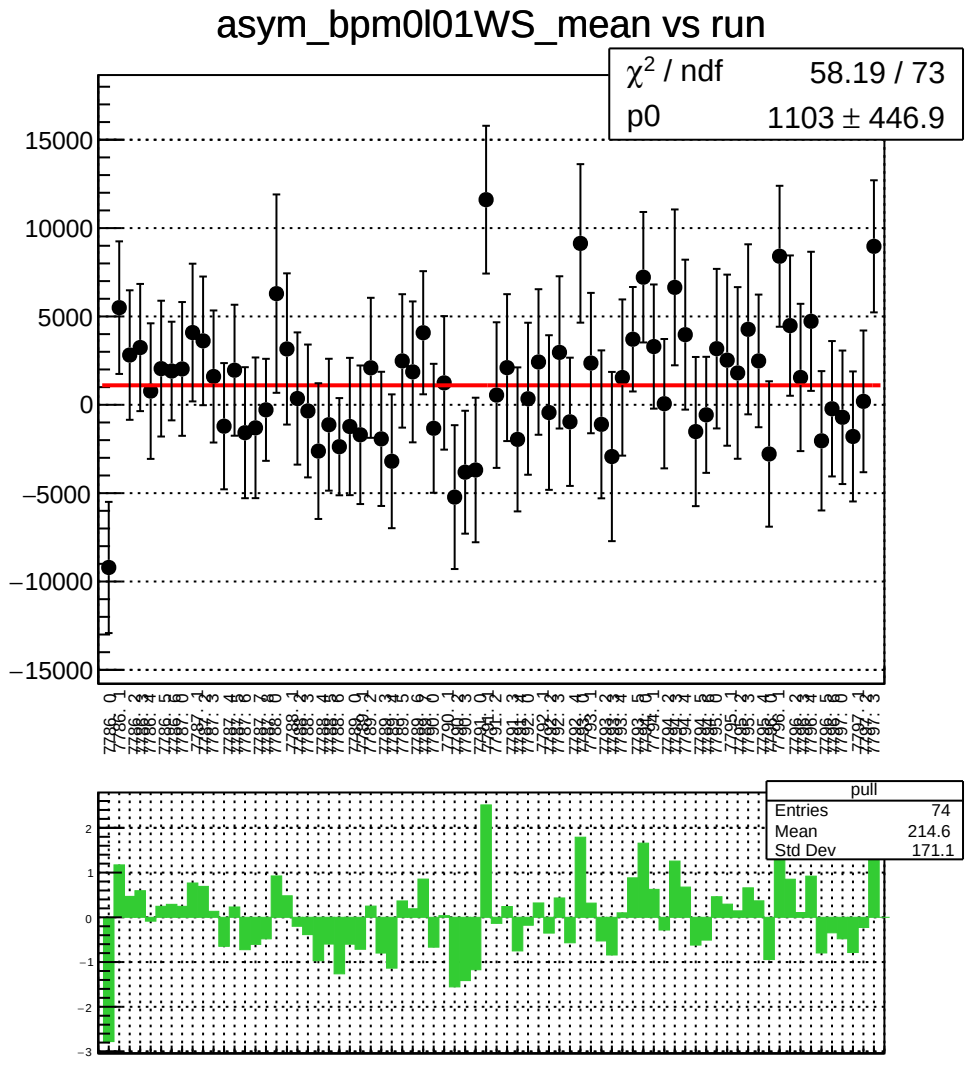

asym_bpm0i01WS_mean vs run
χ² / ndf 2587 / 73
p0 −2.101e+04 ± 210.9
pull
Entries 74
Mean −1.04e+04
Std Dev 1.044e+04
pull1D
Entries 74
Mean −1.37
Std Dev 2.86

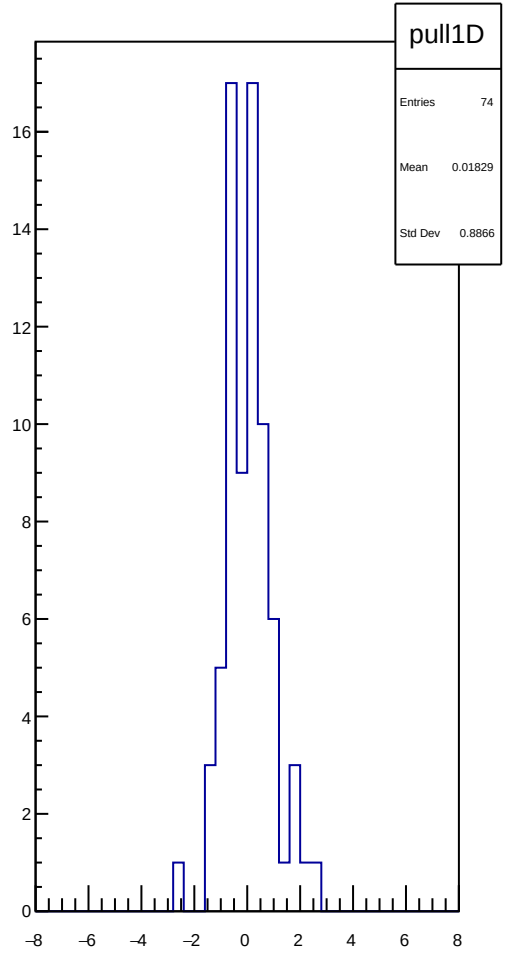

asym_bpm0i01WS_rms vs run
χ^2 / ndf 1.03e+04 / 73
p0 178.1 ± 0.1491
320
300
280
260
240
220
200
180
160
140

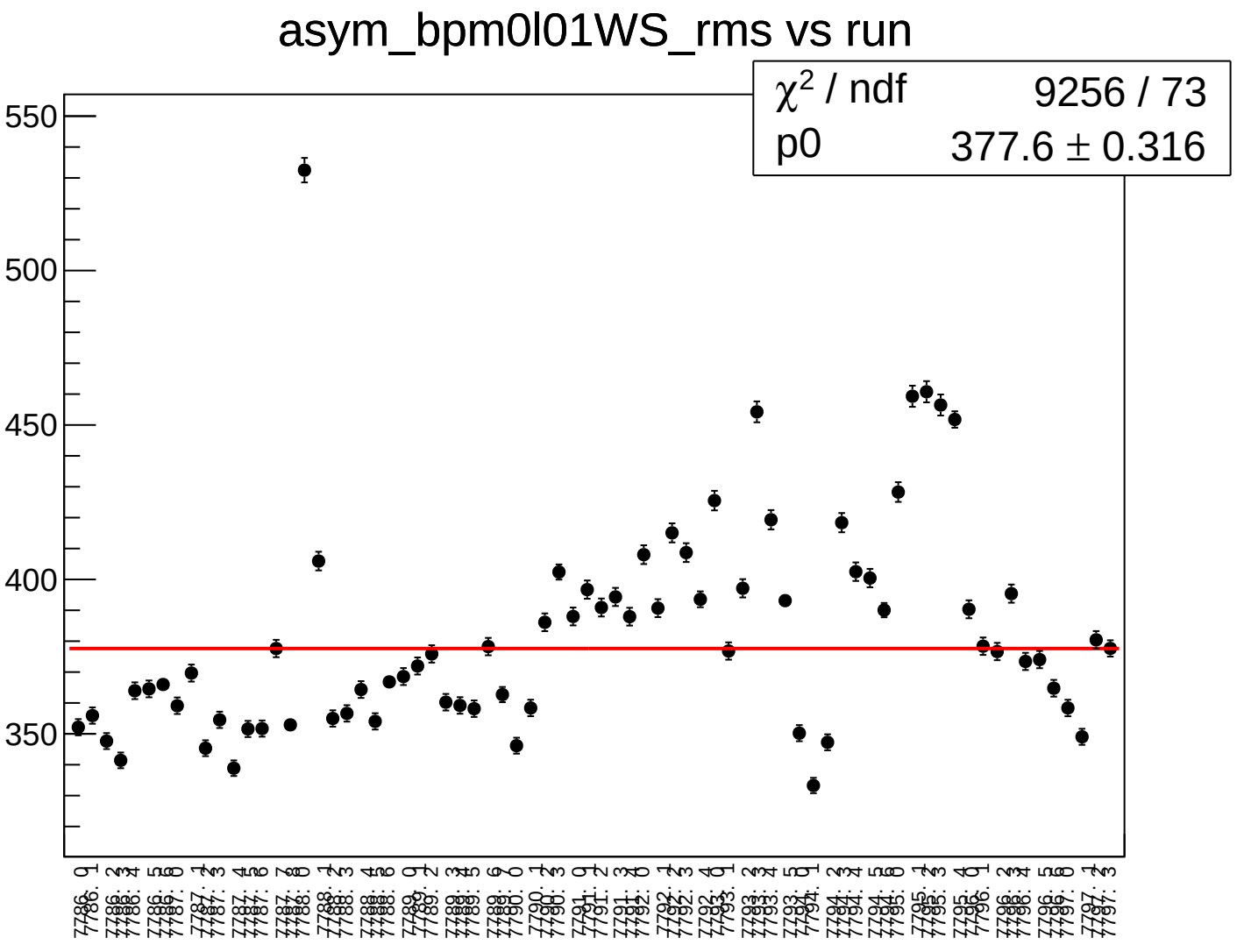

asym_bpm0i01aWS_mean vs run
χ² / ndf 3517 / 73
p0 −2.028e+04 ± 184.7
pull
Entries 74
Mean −1285
Std Dev 1320

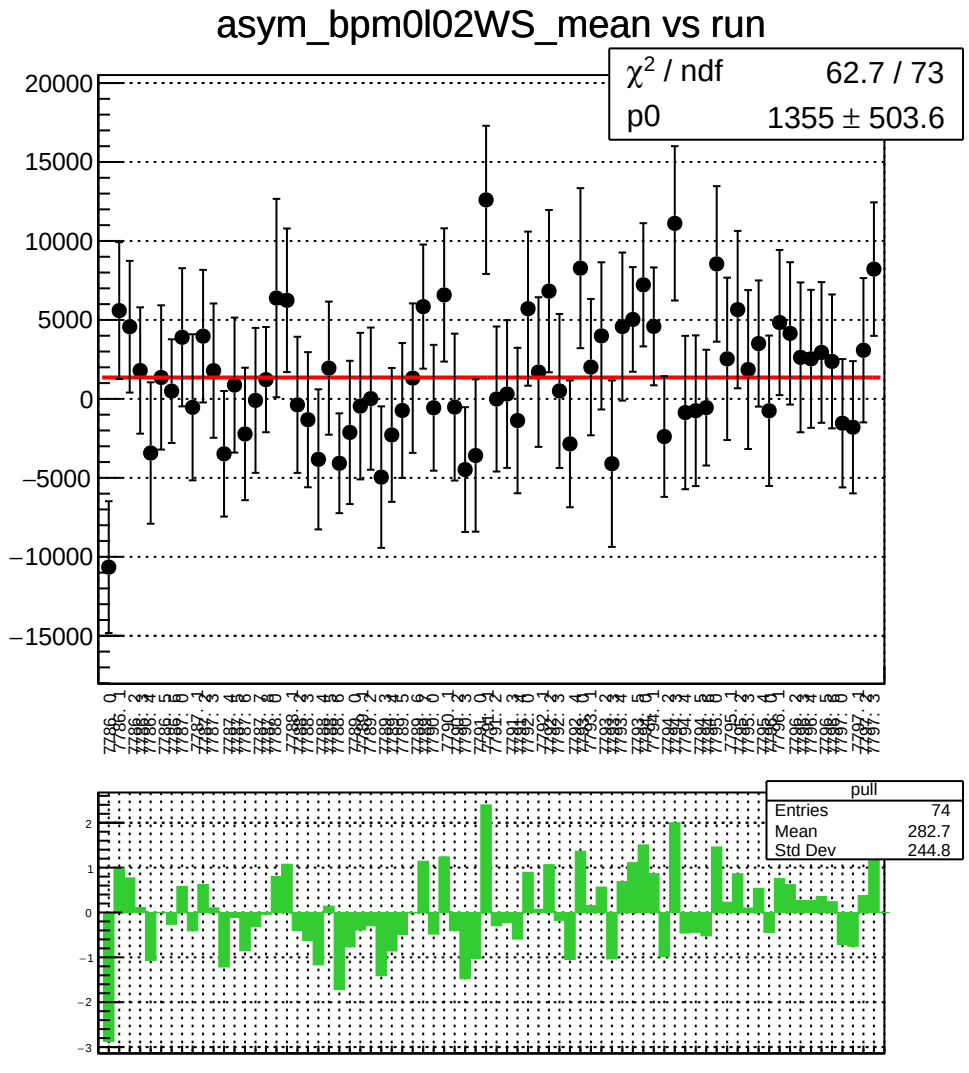

pull1D
Entries 74
Mean −1.462
Std Dev 2.921

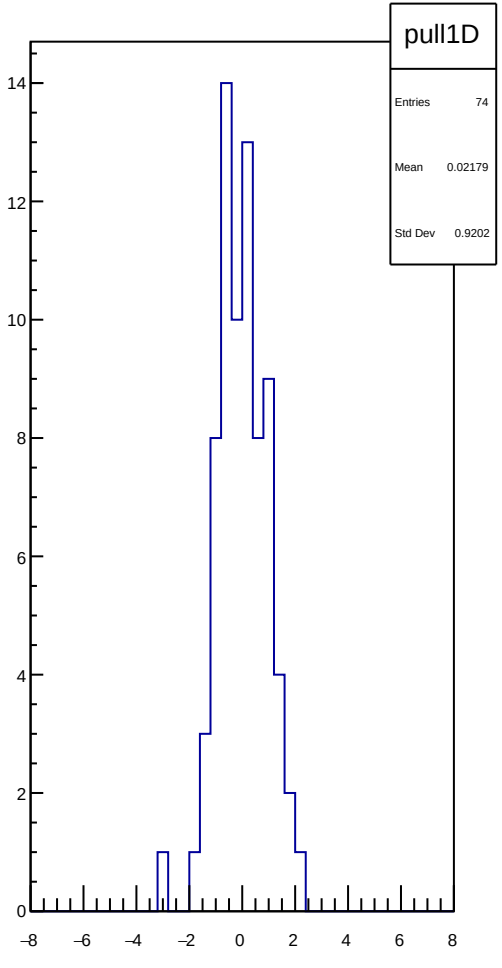

asym_bpm0i01aWS_rms vs run
χ² / ndf 1.279e+04 / 73
p0 155.8 ± 0.1306
300
280
260
240
220
200
180
160
140
120

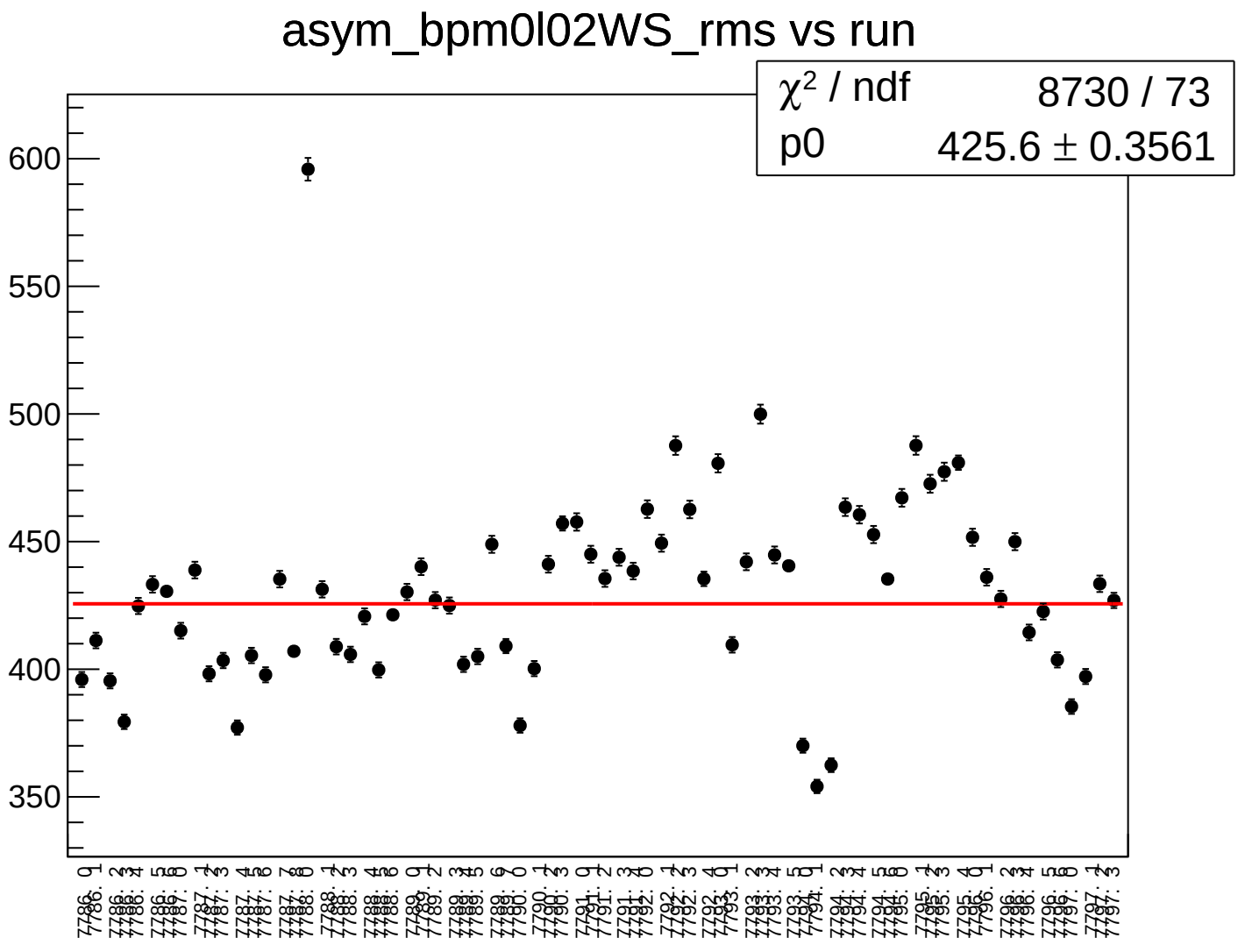

asym_bpm0l01WS_mean vs run
χ² / ndf 58.19 / 73
p0 1103 ± 446.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 214.6
Std Dev 171.1
2
1
0
−1
−2
−3

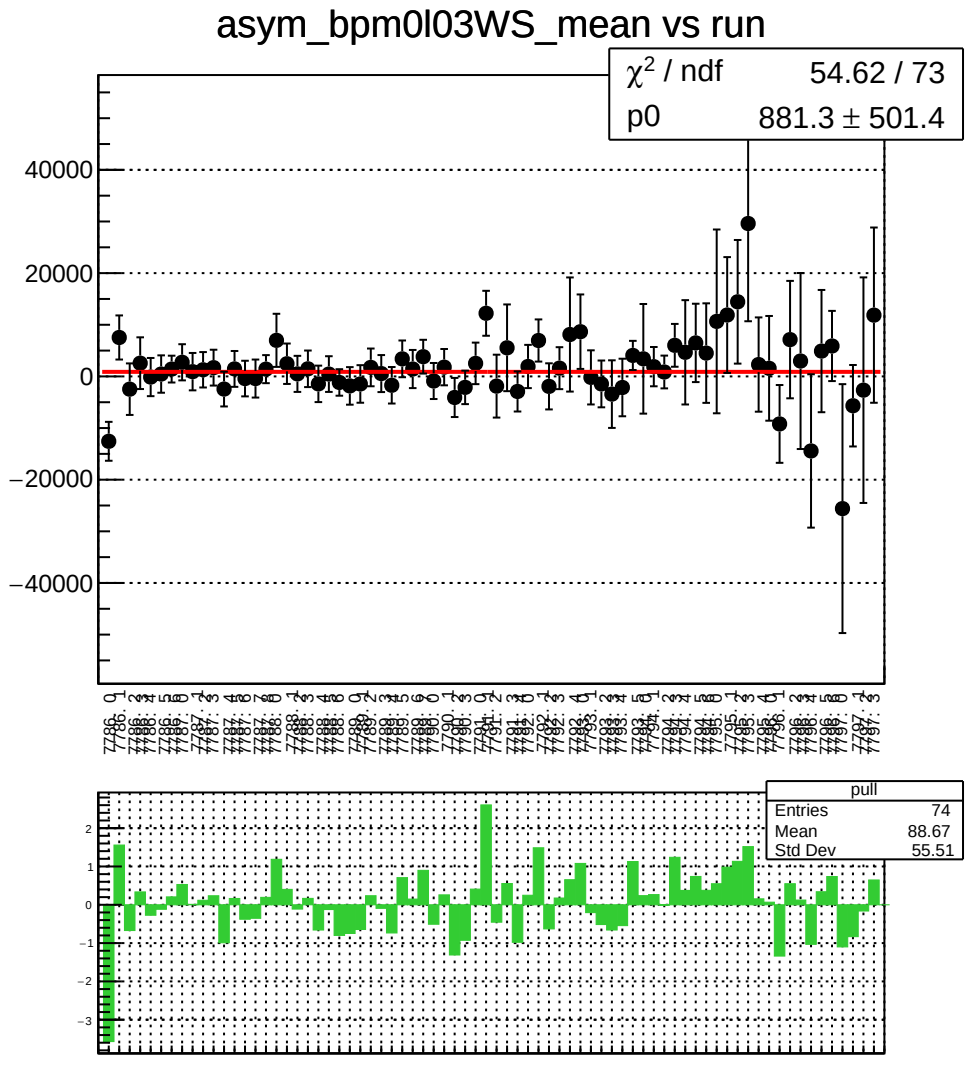

pull1D
Entries 74
Mean 0.01829
Std Dev 0.8866
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

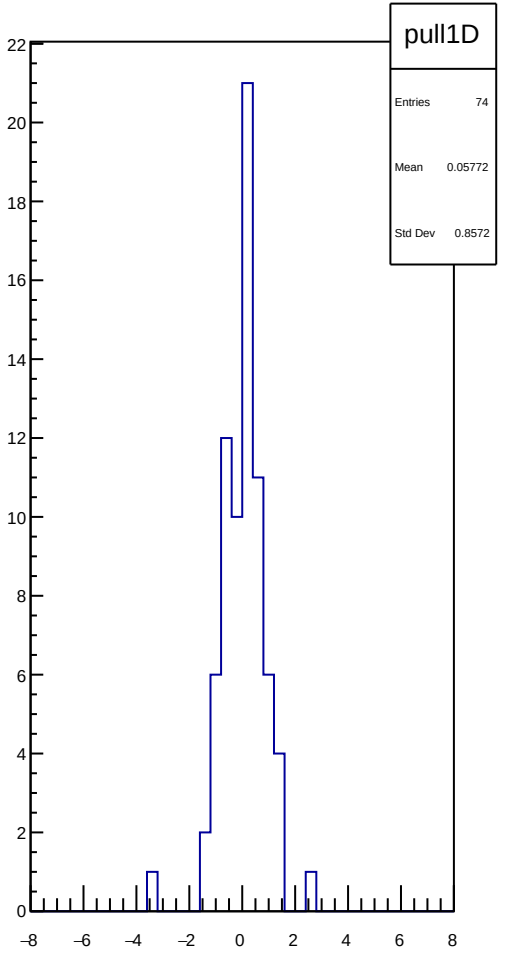

asym_bpm0l01WS_rms vs run
χ² / ndf 9256 / 73
p0 377.6 ± 0.316
550
500
450
400
350

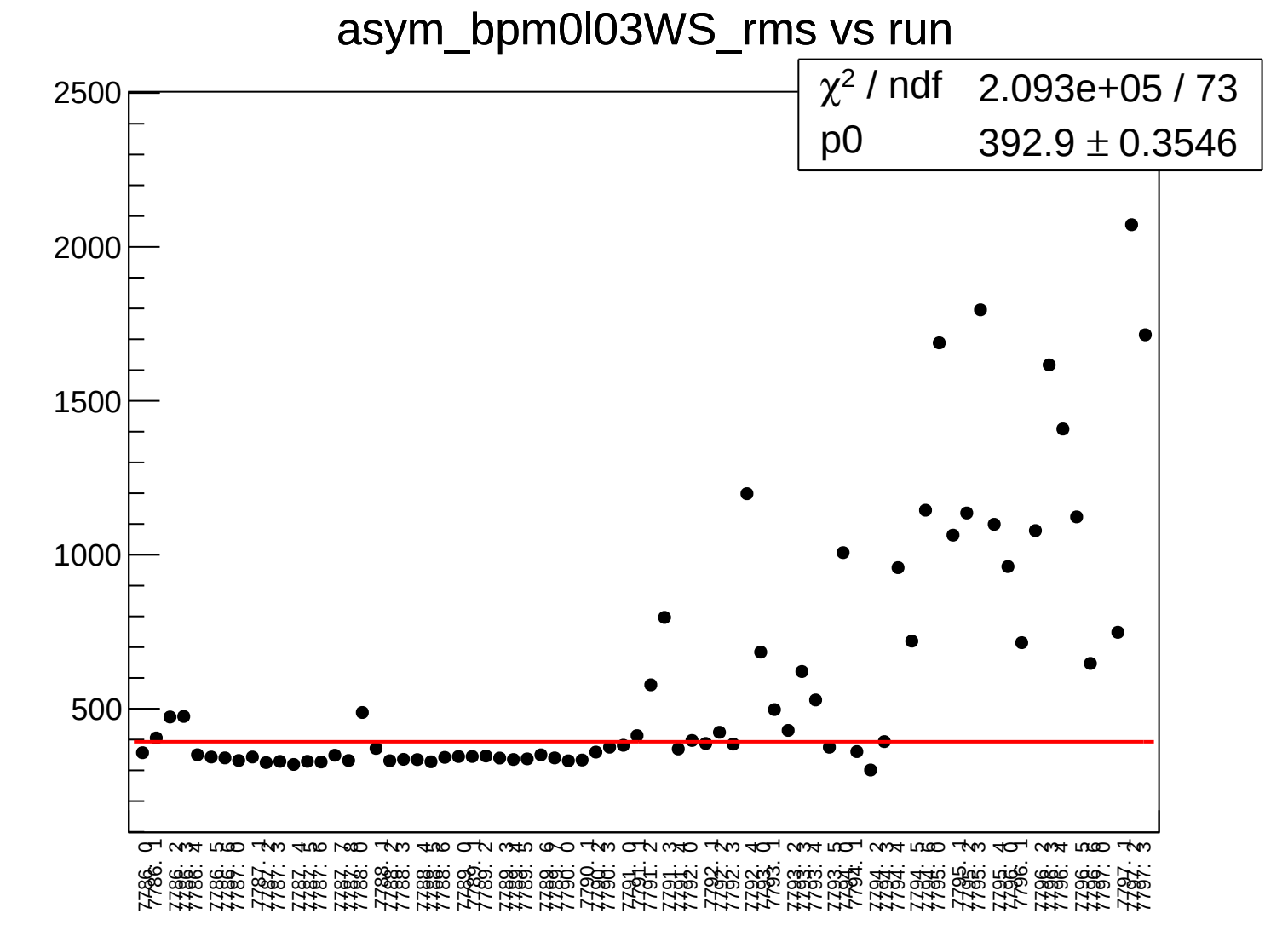

asym_bpm0l02WS_mean vs run
χ² / ndf 62.7 / 73
p0 1355 ± 503.6
pull
Entries 74
Mean 282.7
Std Dev 244.8

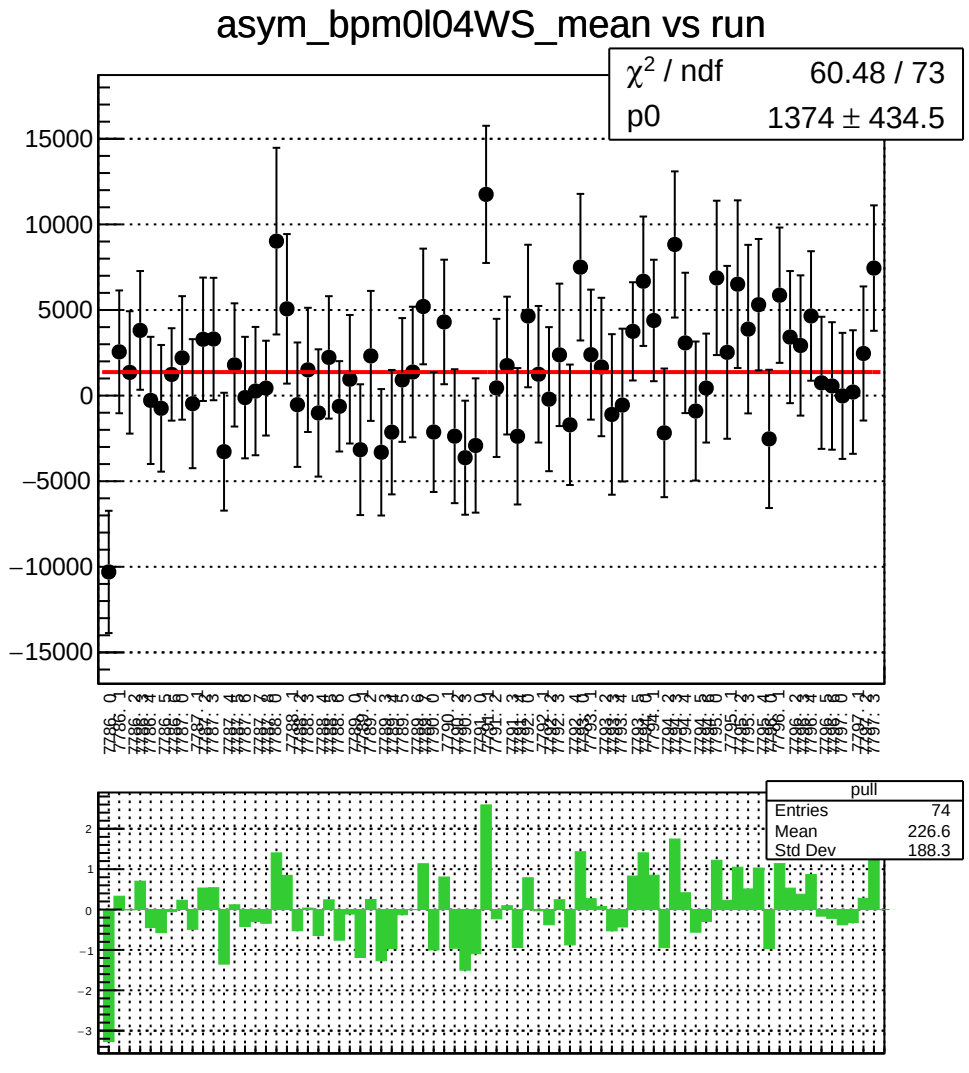

pull1D
Entries 74
Mean 0.02179
Std Dev 0.9202

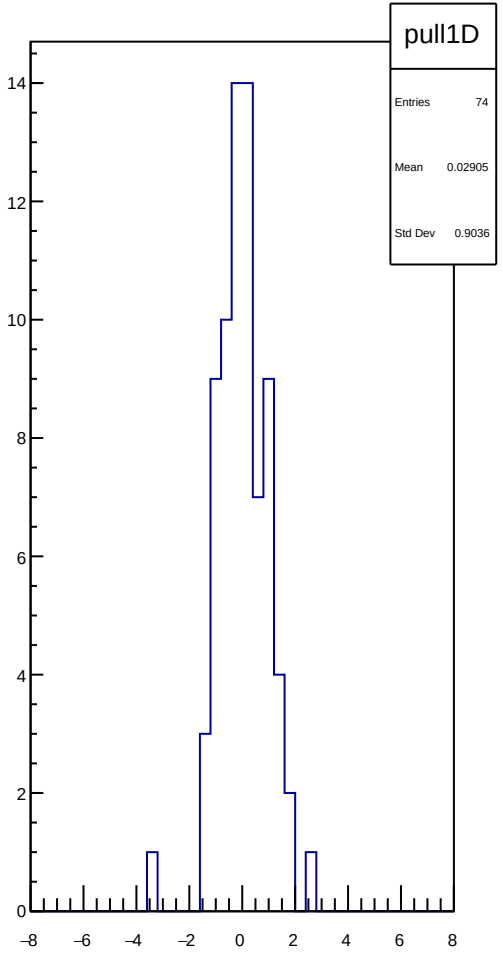

asym_bpm0l02WS_rms vs run
χ² / ndf 8730 / 73
p0 425.6 ± 0.3561
600
550
500
450
400
350

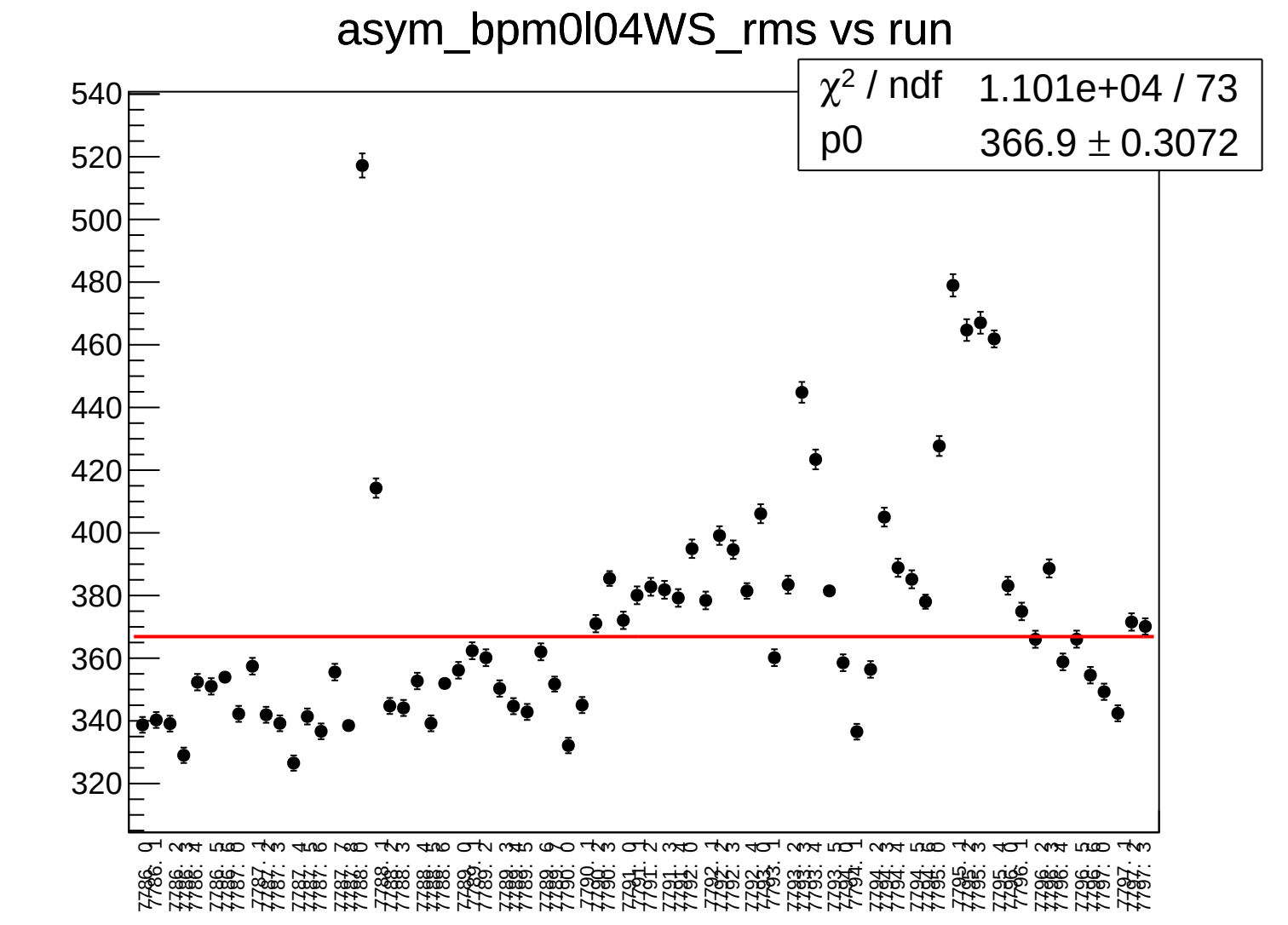

asym_bpm0l03WS_mean vs run
χ² / ndf 54.62 / 73
p0 881.3 ± 501.4
40000
20000
0
−20000
−40000
pull
Entries 74
Mean 88.67
Std Dev 55.51
2
1
0
−1
−2
−3

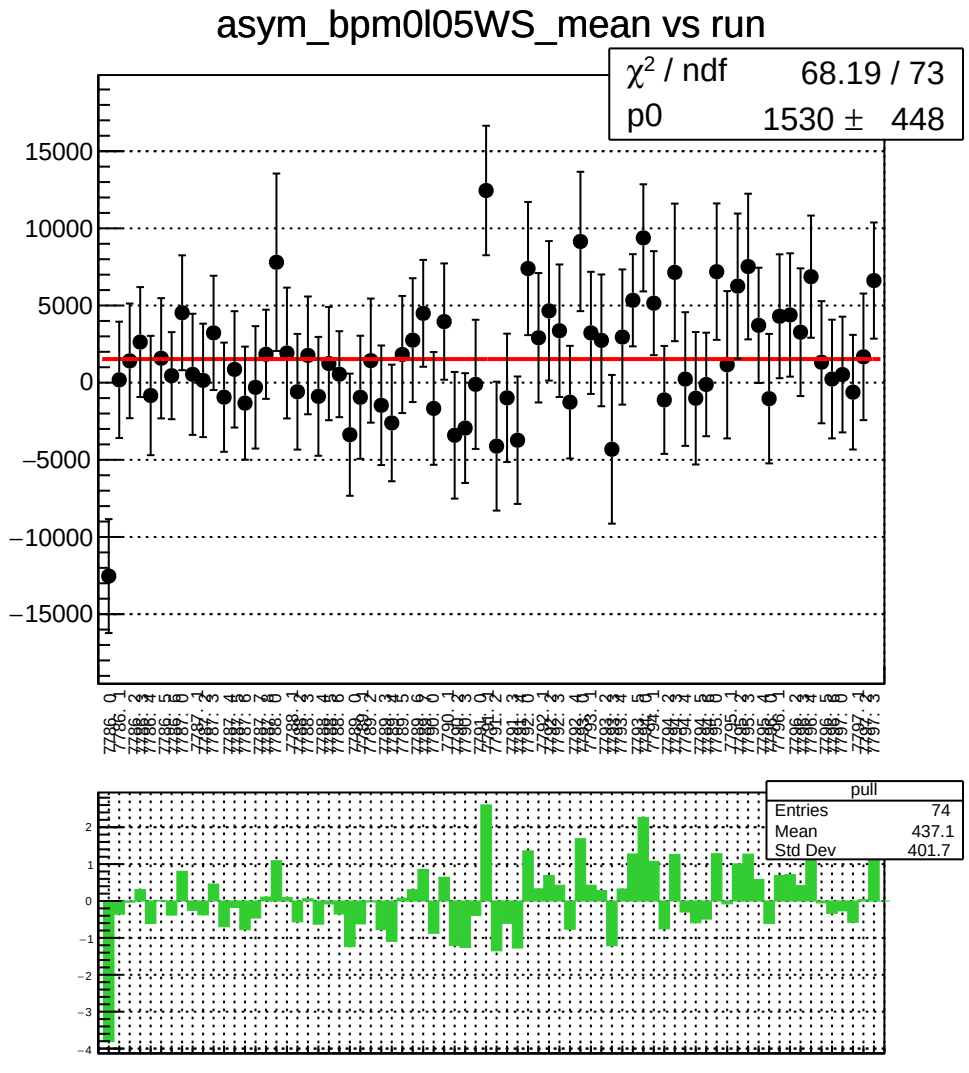

pull1D
Entries 74
Mean 0.05772
Std Dev 0.8572
22
20
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

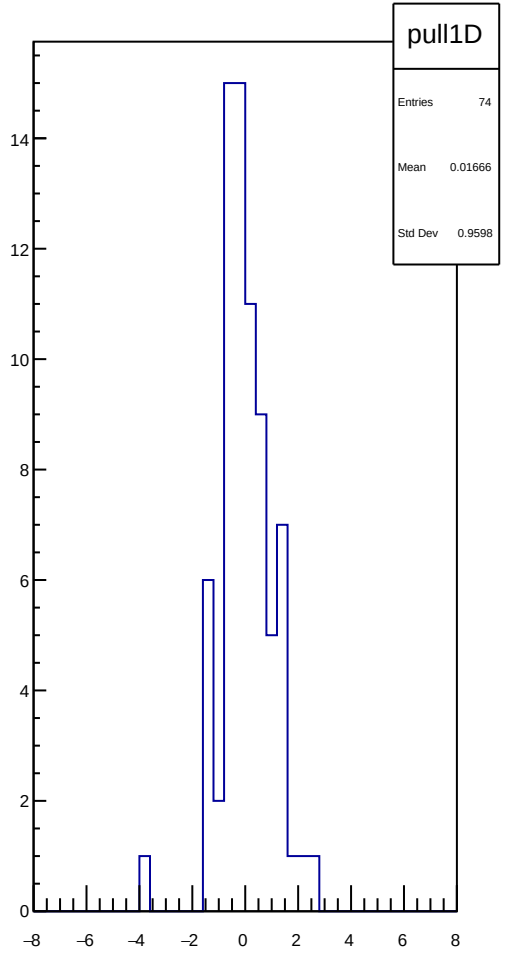

asym_bpm0l03WS_rms vs run
χ^2 / ndf 2.093e+05 / 73
p0 392.9 ± 0.3546
2500
2000
1500
1000
500

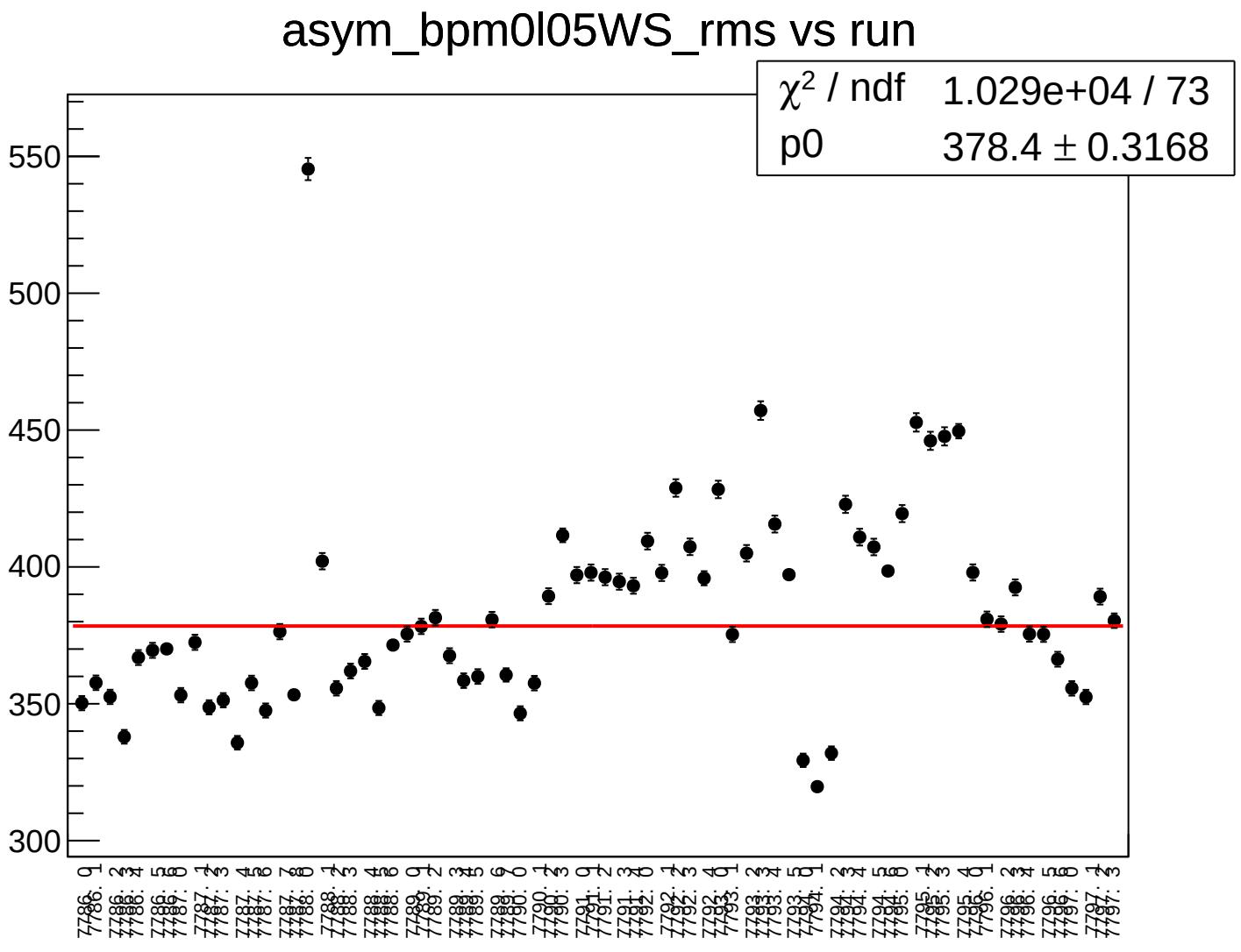

asym_bpm0l04WS_mean vs run
χ² / ndf 60.48 / 73
p0 1374 ± 434.5
pull
Entries 74
Mean 226.6
Std Dev 188.3

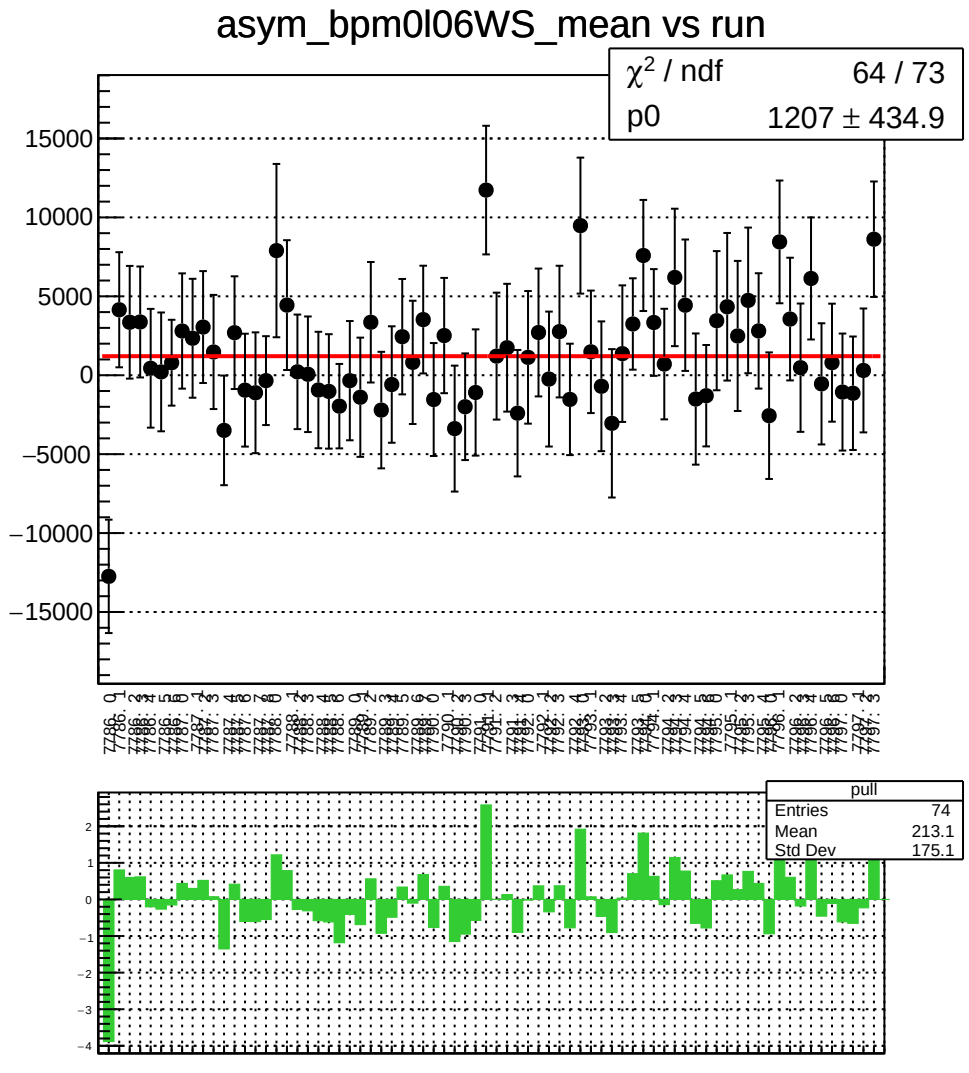

pull1D
Entries 74
Mean 0.02905
Std Dev 0.9036

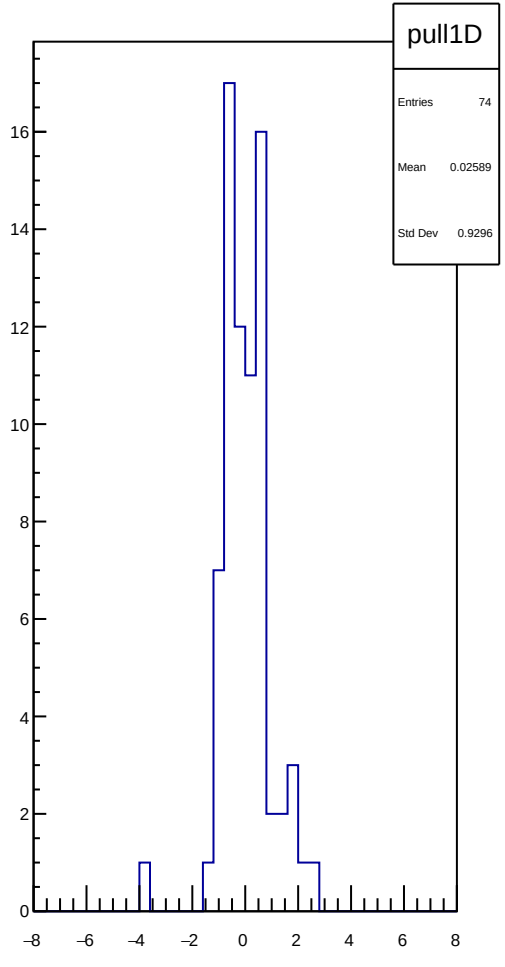

asym_bpm0l04WS_rms vs run
χ^2 / ndf 1.101e+04 / 73
p0 366.9 ± 0.3072
540
520
500
480
460
440
420
400
380
360
340
320

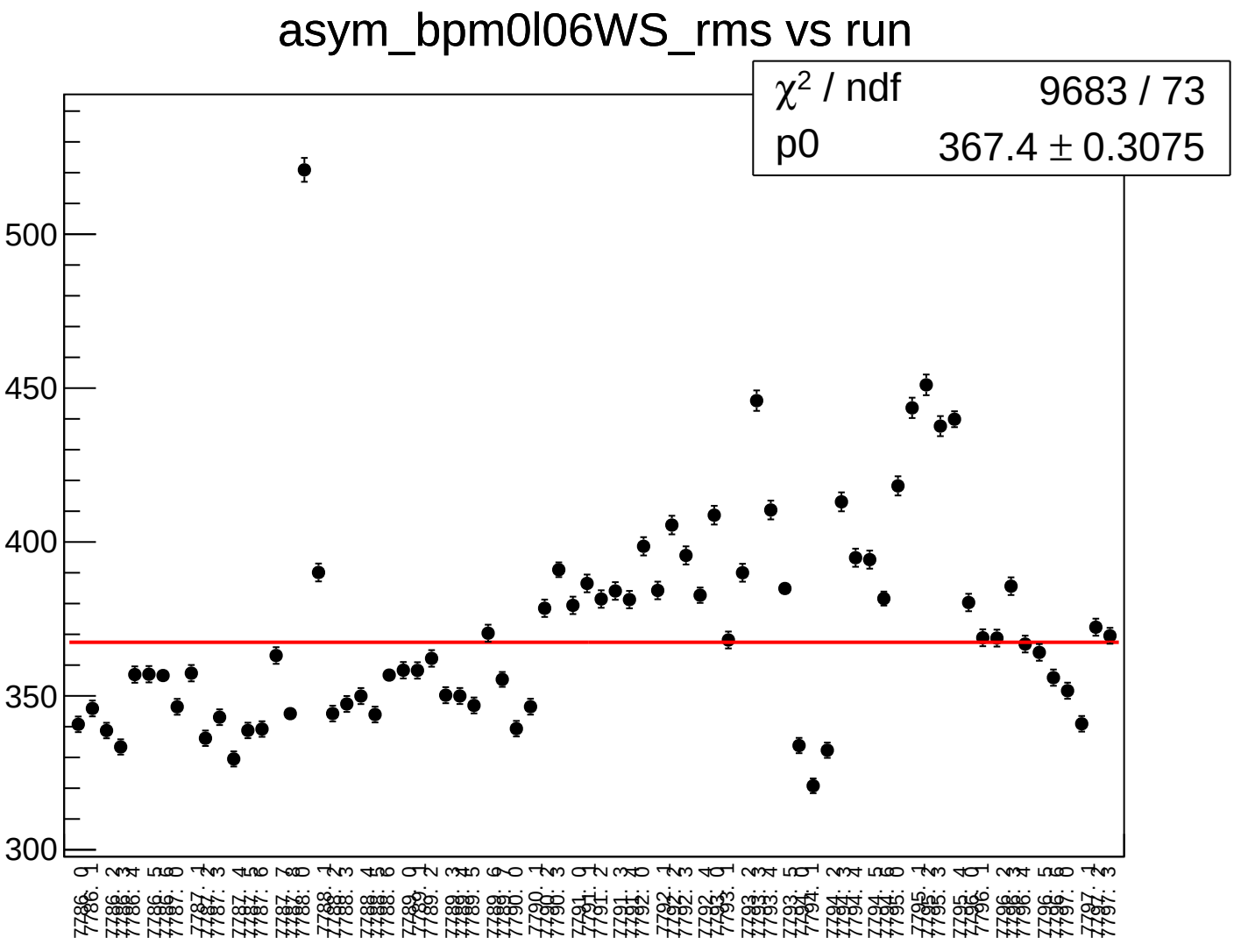

asym_bpm0l05WS_mean vs run
χ² / ndf 68.19 / 73
p0 1530 ± 448
pull
Entries 74
Mean 437.1
Std Dev 401.7

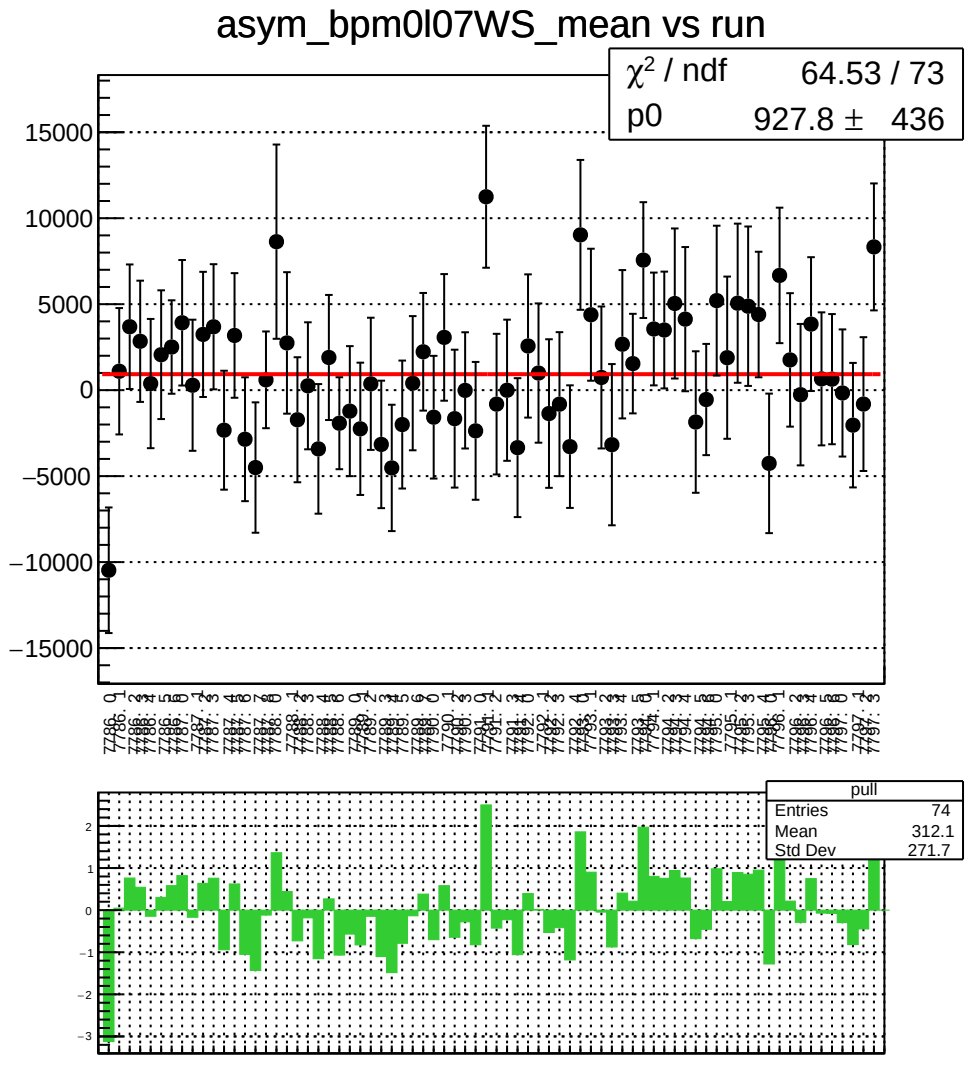

pull1D
Entries 74
Mean 0.01666
Std Dev 0.9598

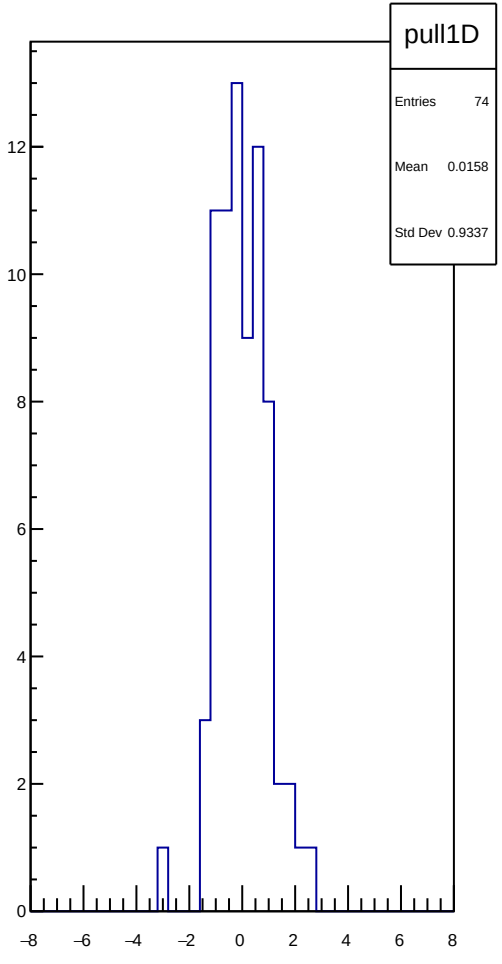

asym_bpm0l05WS_rms vs run
χ² / ndf 1.029e+04 / 73
p0 378.4 ± 0.3168
550
500
450
400
350
300

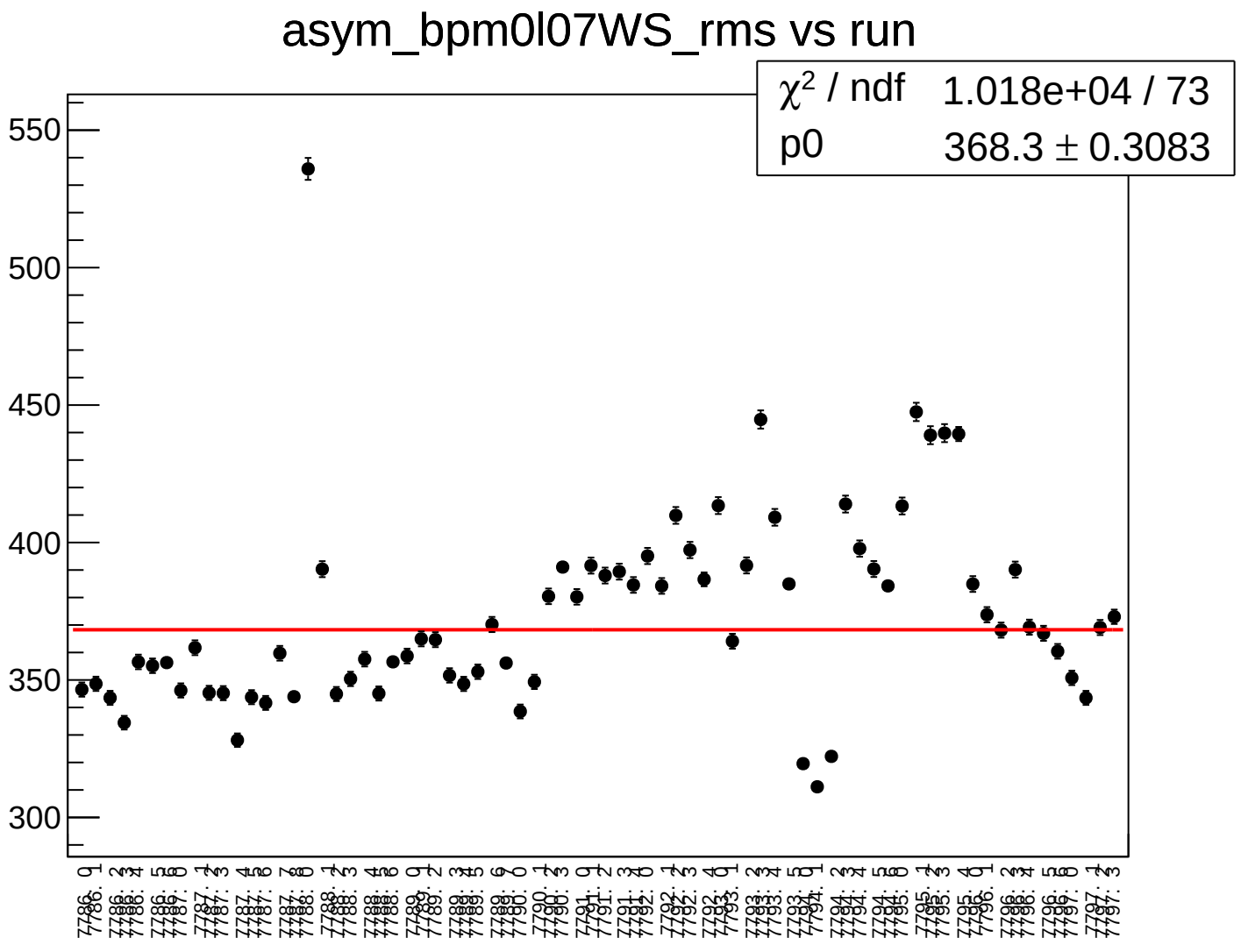

asym_bpm0l06WS_mean vs run
χ² / ndf 64 / 73
p0 1207 ± 434.9
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 213.1
Std Dev 175.1
2
1
0
−1
−2
−3
−4

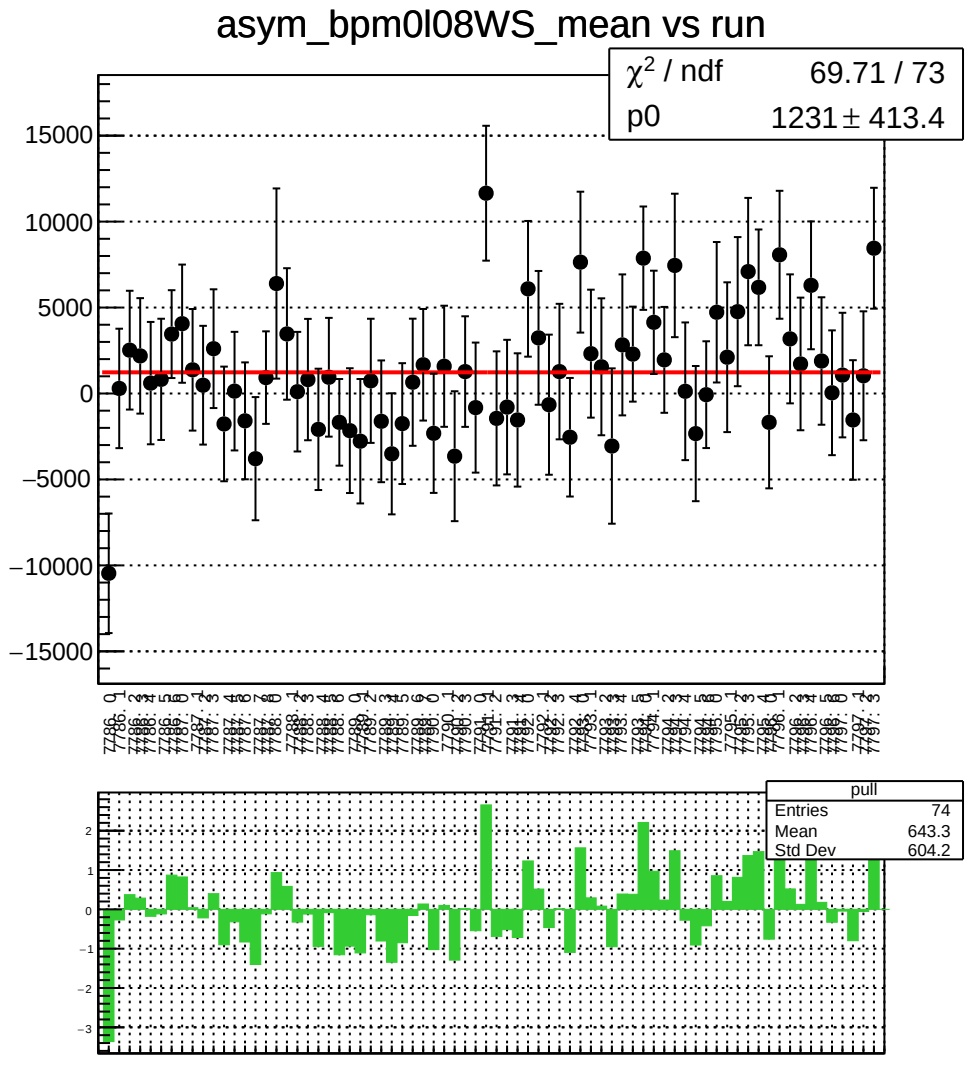

pull1D
Entries 74
Mean 0.02589
Std Dev 0.9296
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

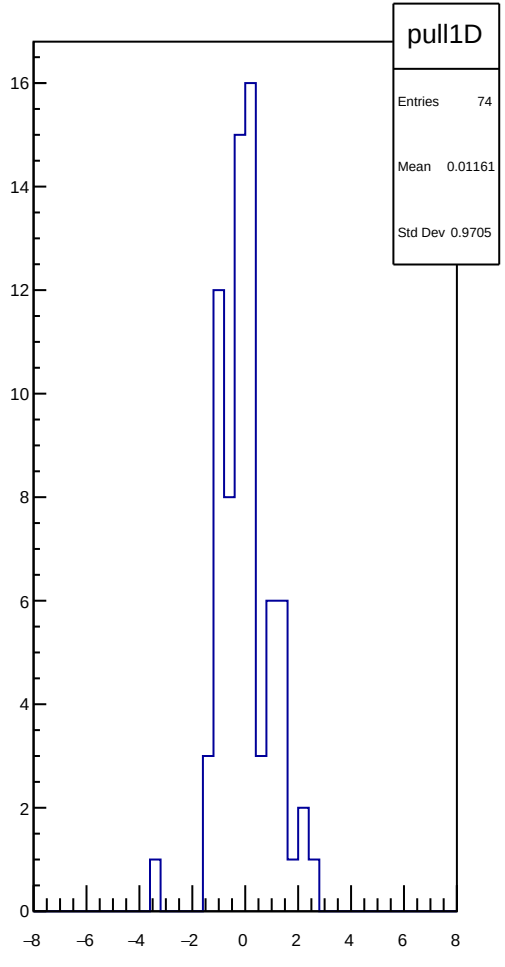

asym_bpm0l06WS_rms vs run
χ² / ndf 9683 / 73
p0 367.4 ± 0.3075
500
450
400
350
300

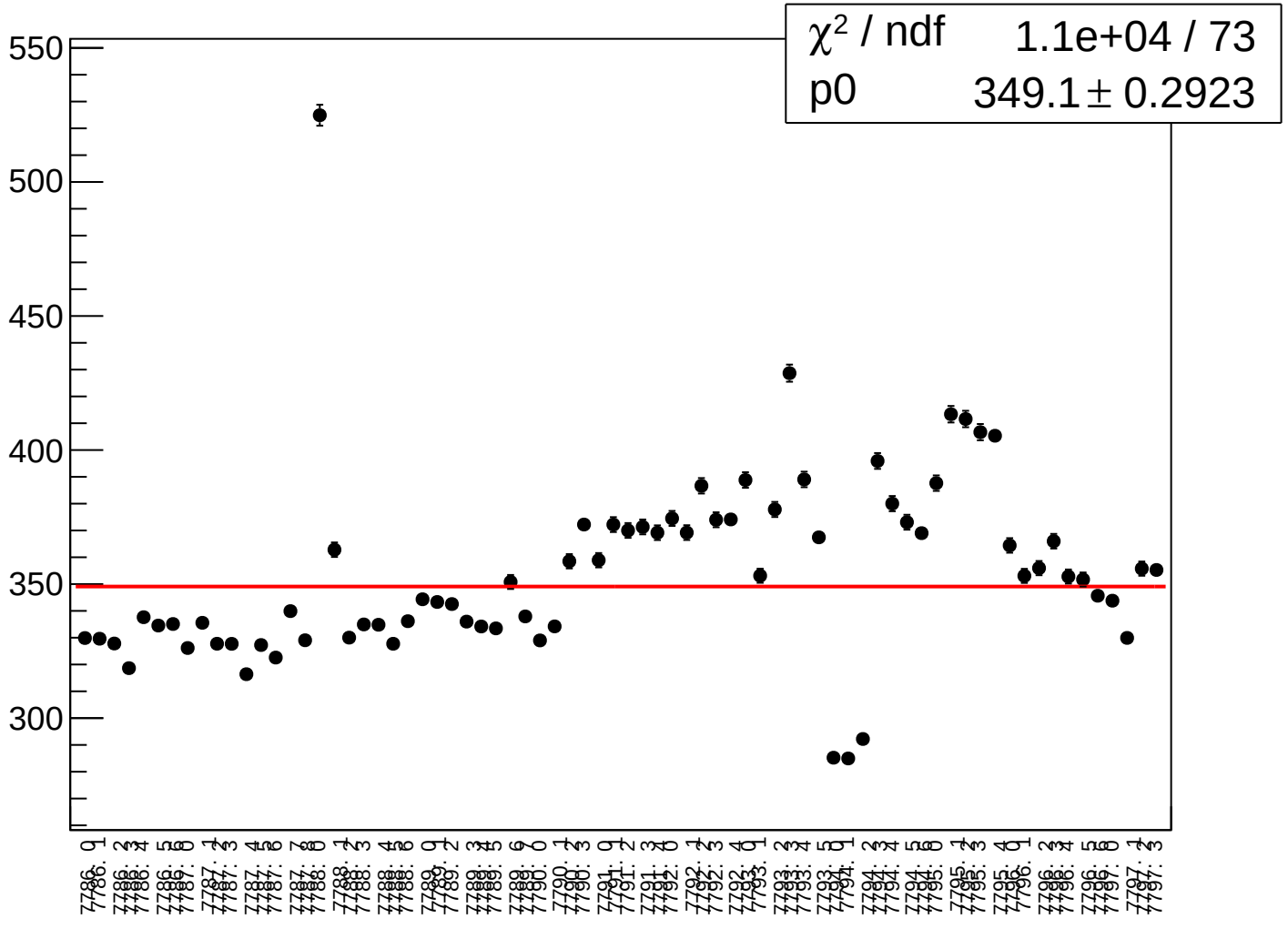

asym_bpm0l07WS_mean vs run
χ² / ndf 64.53 / 73
p0 927.8 ± 436
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 312.1
Std Dev 271.7
2
1
0
−1
−2
−3

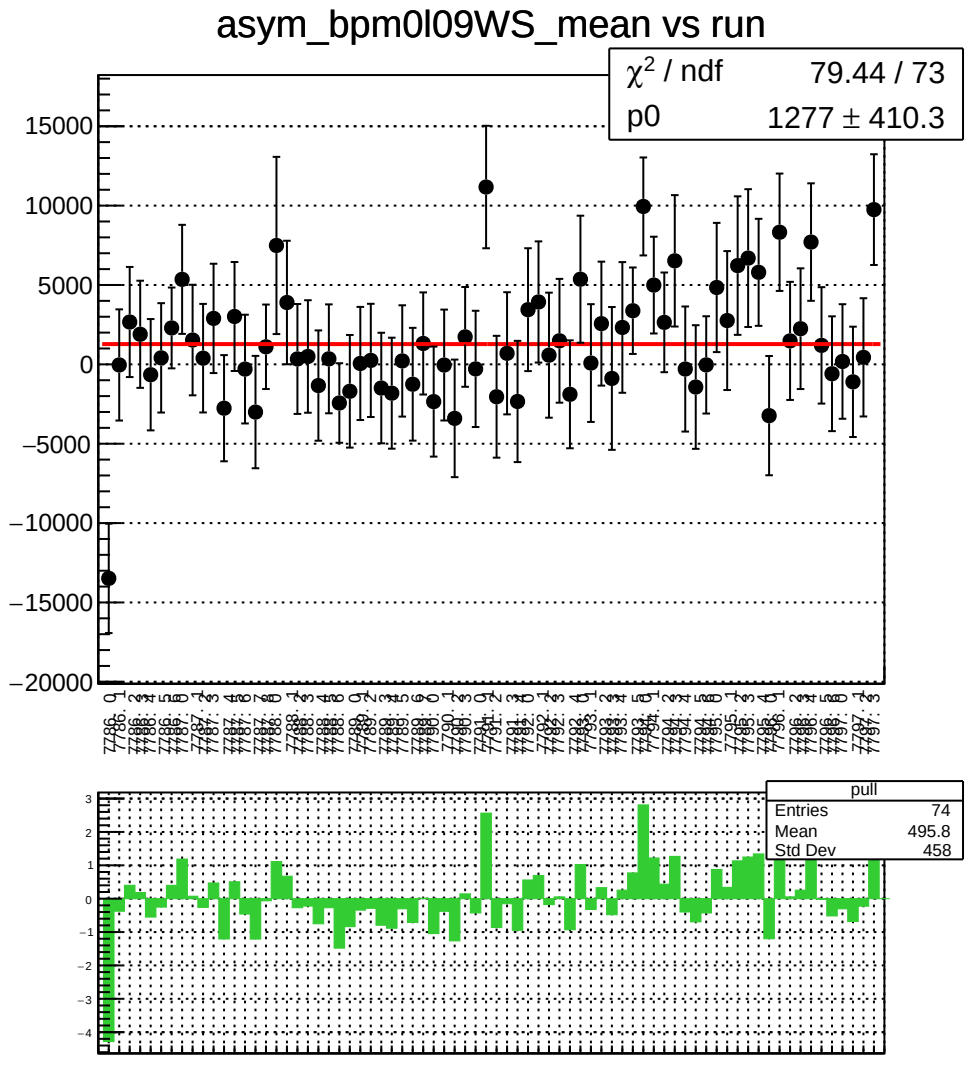

pull1D
Entries 74
Mean 0.0158
Std Dev 0.9337
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

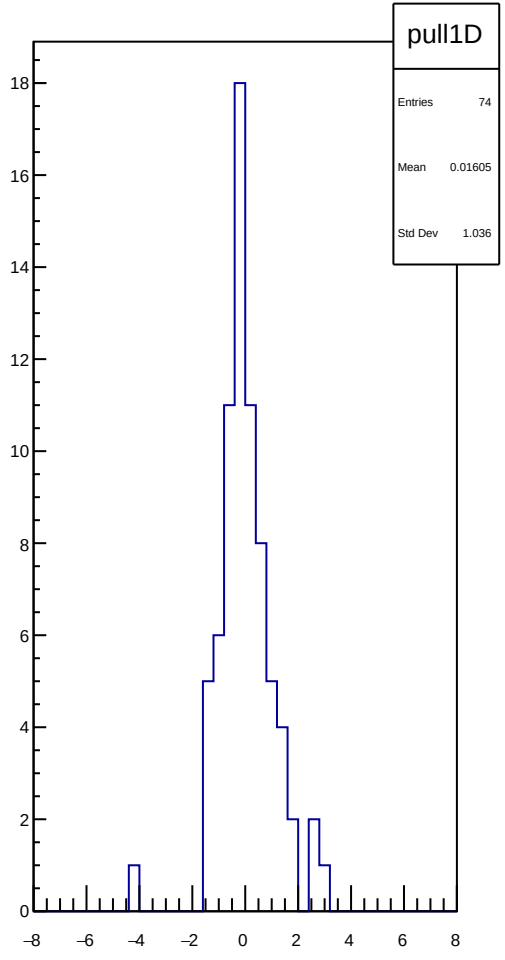

asym_bpm0l07WS_rms vs run
χ² / ndf 1.018e+04 / 73
p0 368.3 ± 0.3083
550
500
450
400
350
300

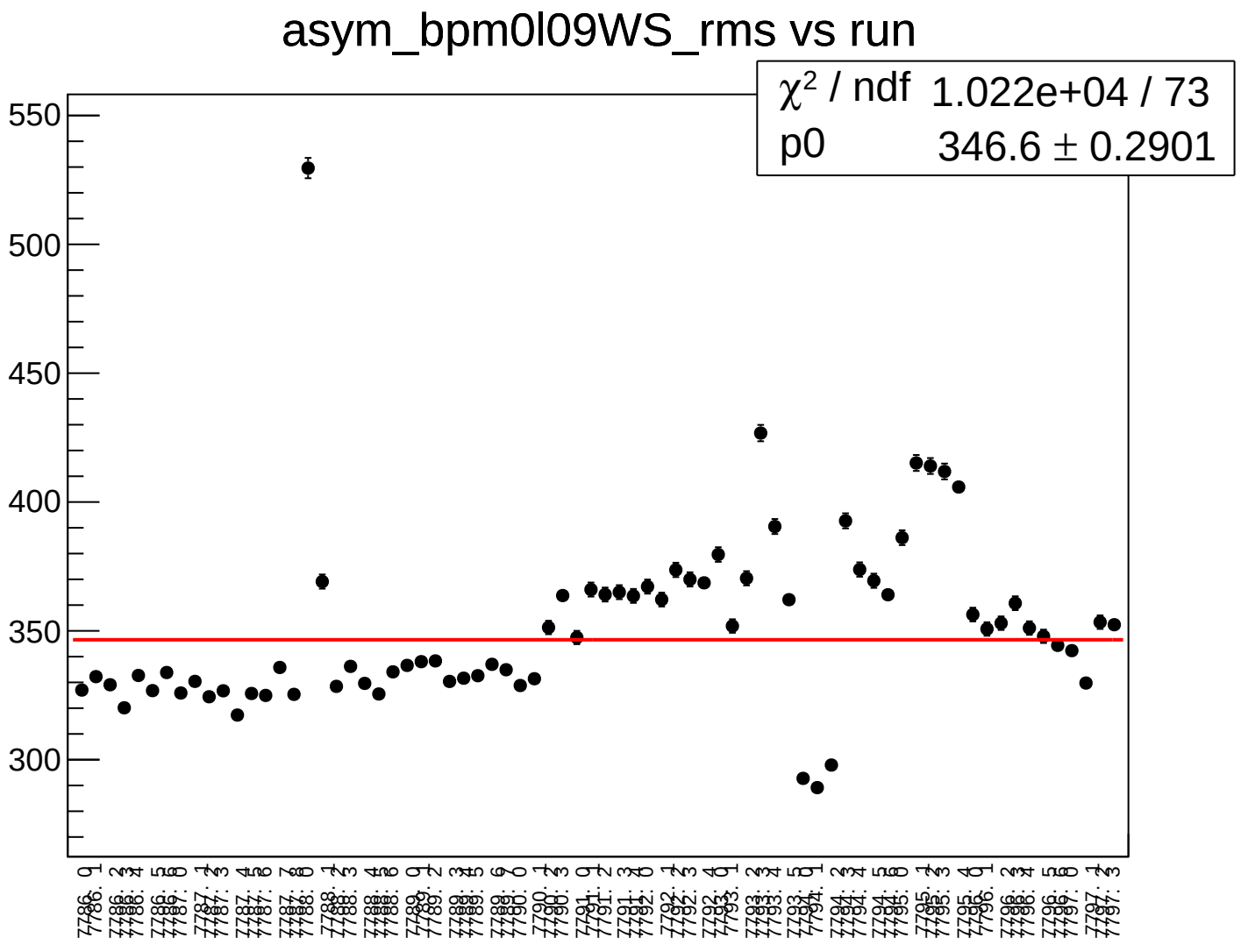

asym_bpm0l08WS_mean vs run
χ² / ndf 69.71 / 73
p0 1231 ± 413.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 643.3
Std Dev 604.2
2
1
0
−1
−2
−3

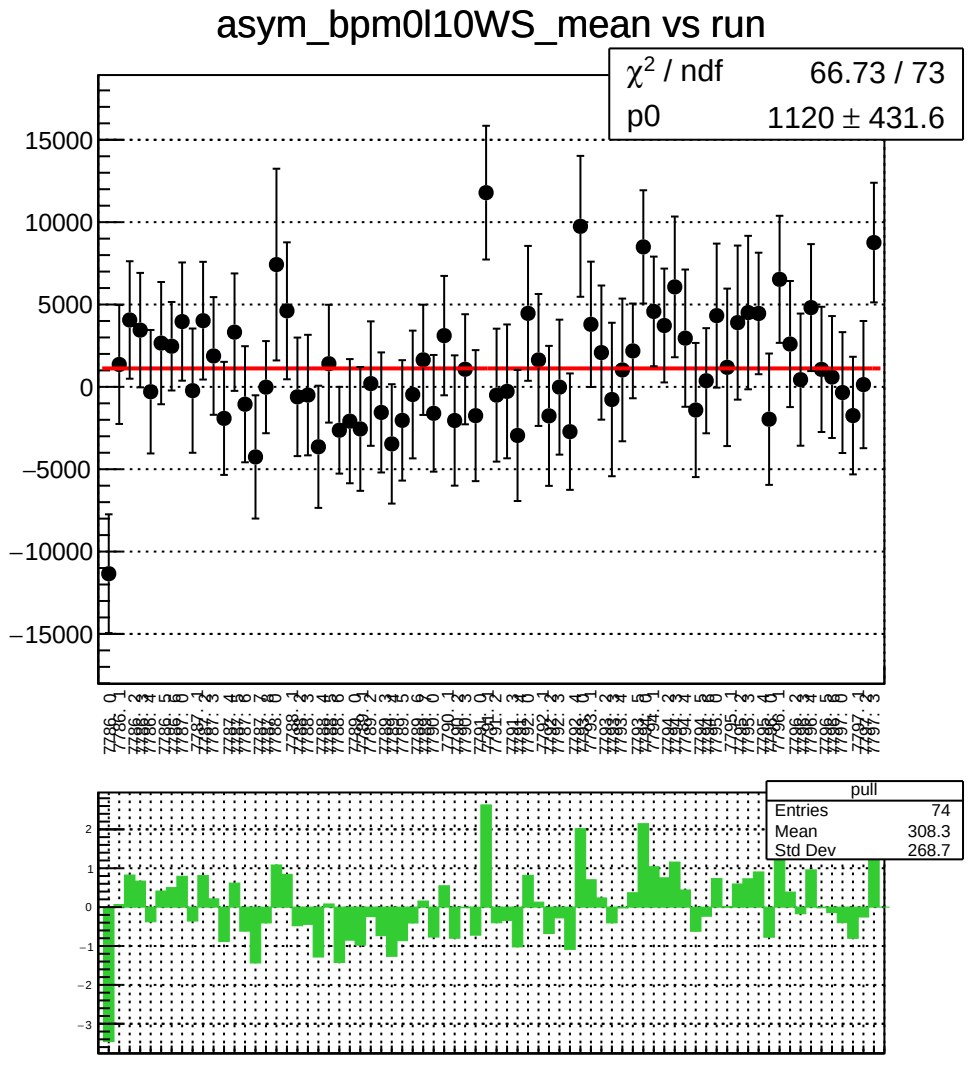

pull1D
Entries 74
Mean 0.01161
Std Dev 0.9705
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

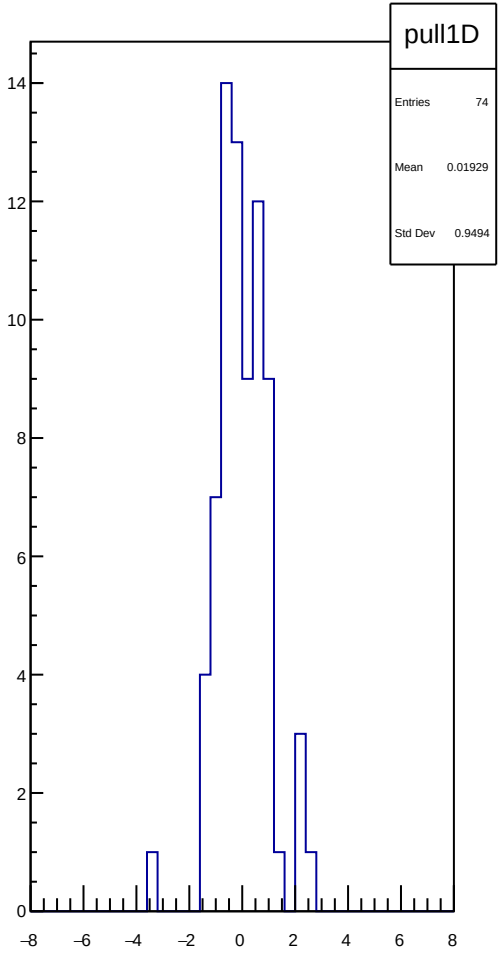

asym_bpm0l08WS_rms vs run
χ² / ndf 1.1e+04 / 73
p0 349.1 ± 0.2923
550
500
450
400
350
300

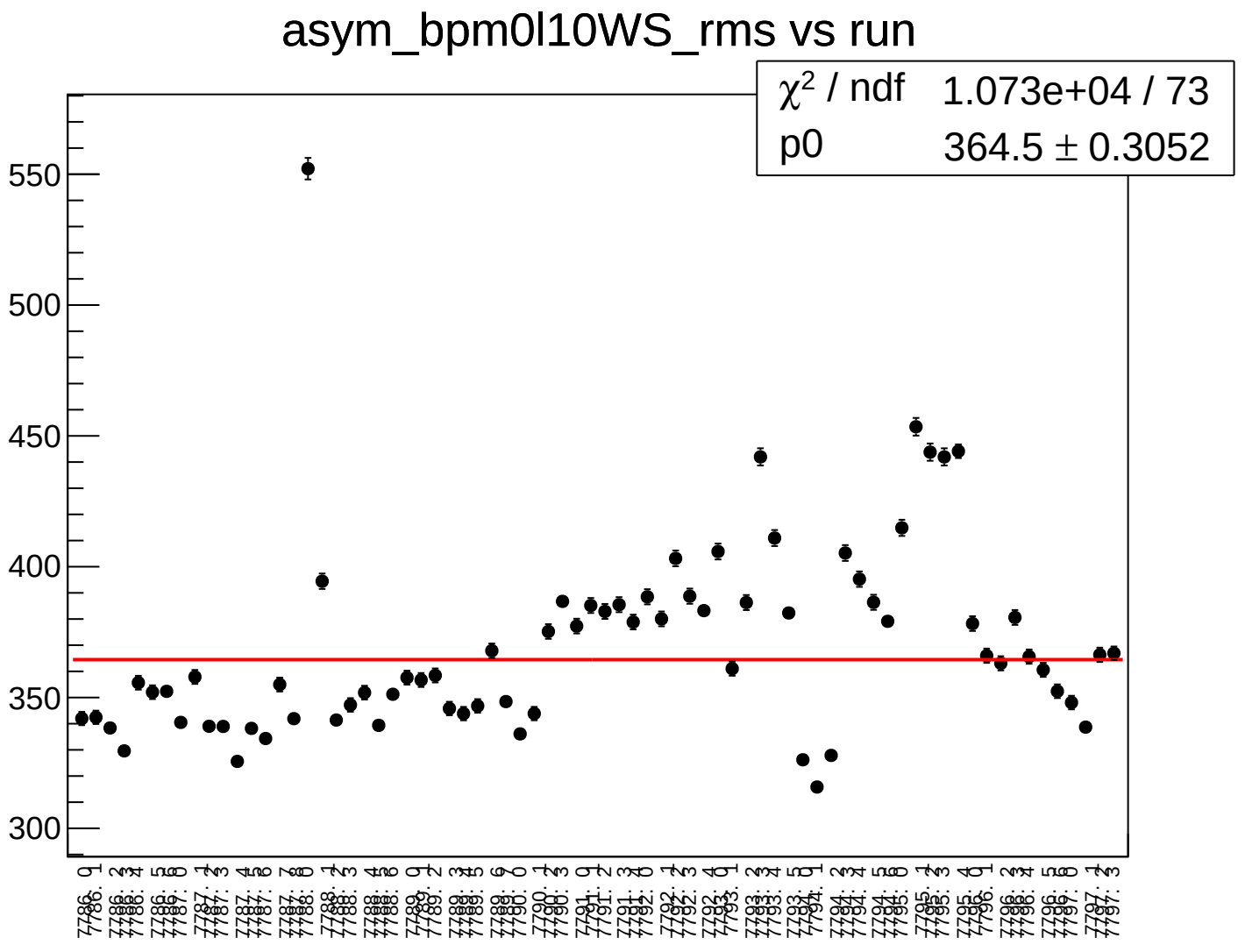

asym_bpm0l09WS_mean vs run
χ² / ndf 79.44 / 73
p0 1277 ± 410.3
15000
10000
5000
0
−5000
−10000
−15000
−20000
pull
Entries 74
Mean 495.8
Std Dev 458
3
2
1
0
−1
−2
−3
−4

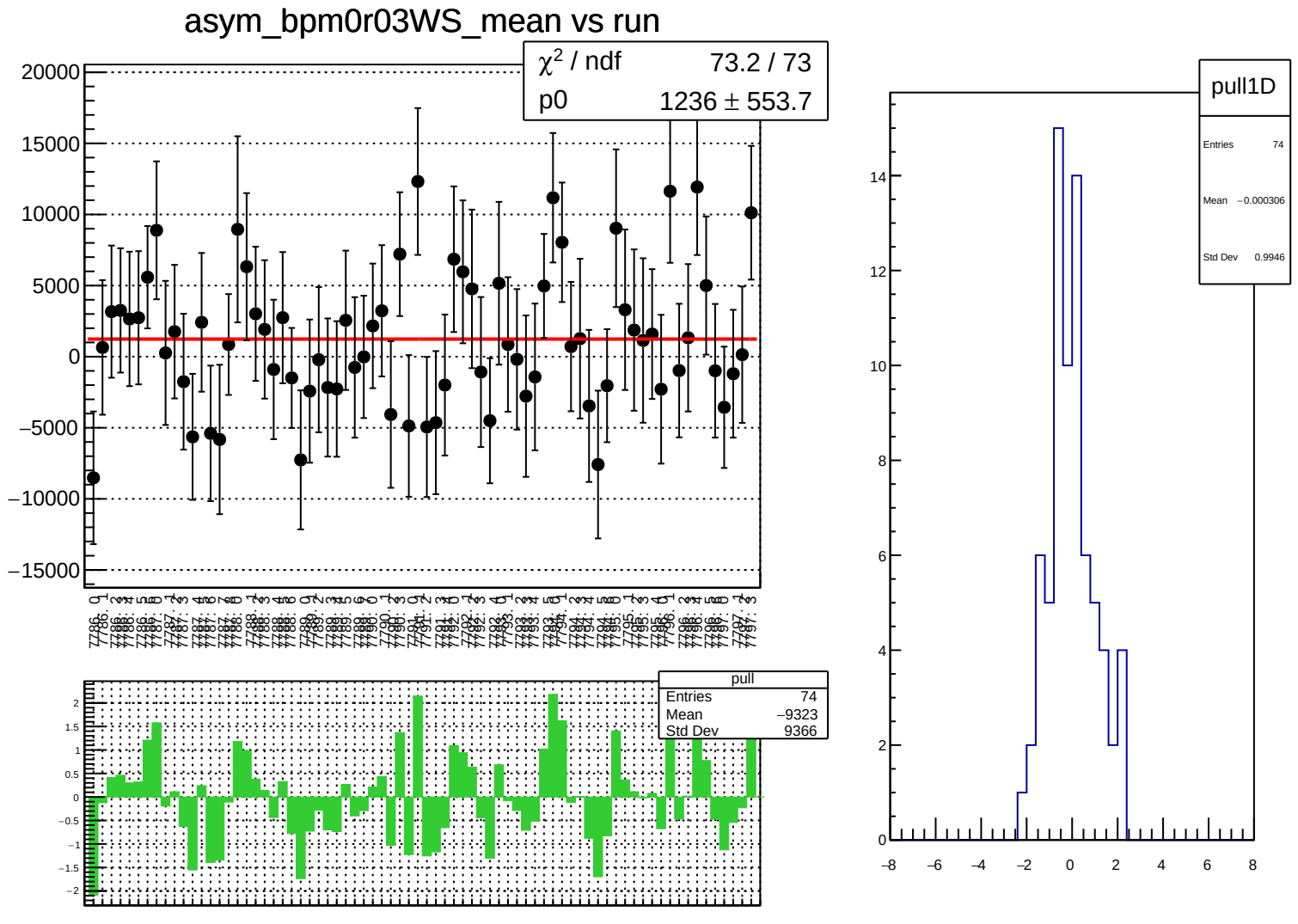

pull1D
Entries 74
Mean 0.01605
Std Dev 1.036
18
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

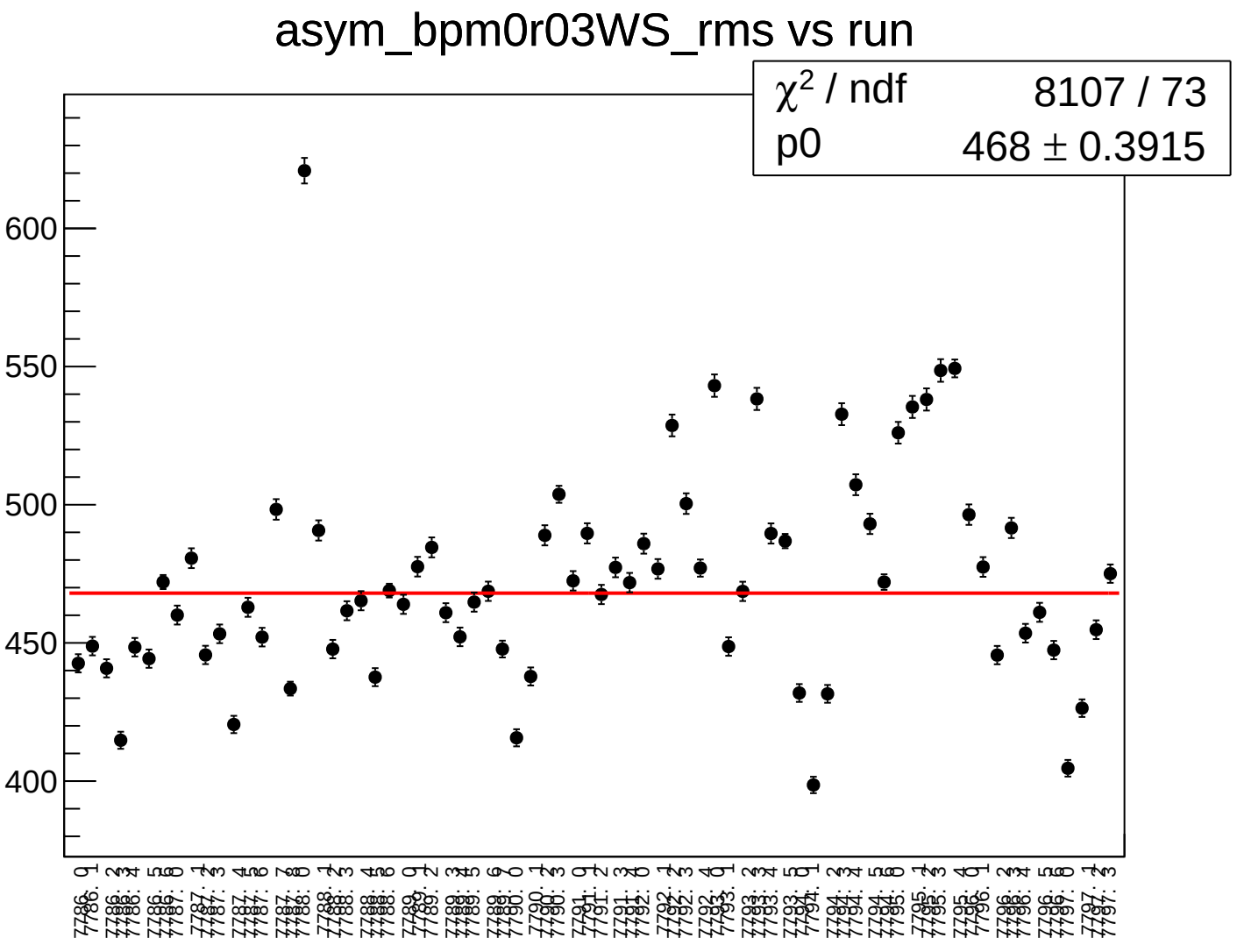

asym_bpm0l09WS_rms vs run
χ² / ndf 1.022e+04 / 73
p0 346.6 ± 0.2901
550
500
450
400
350
300

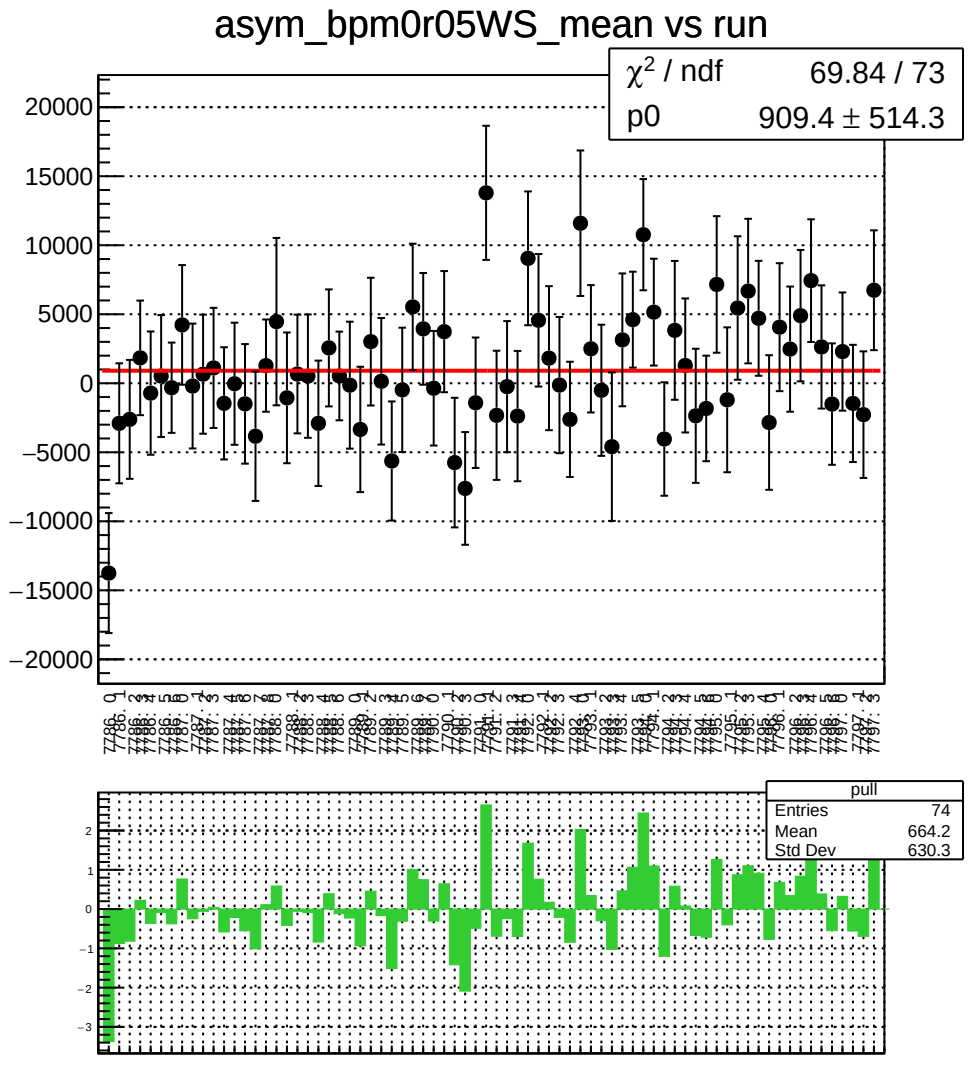

asym_bpm0l10WS_mean vs run
χ² / ndf 66.73 / 73
p0 1120 ± 431.6
pull
Entries 74
Mean 308.3
Std Dev 268.7

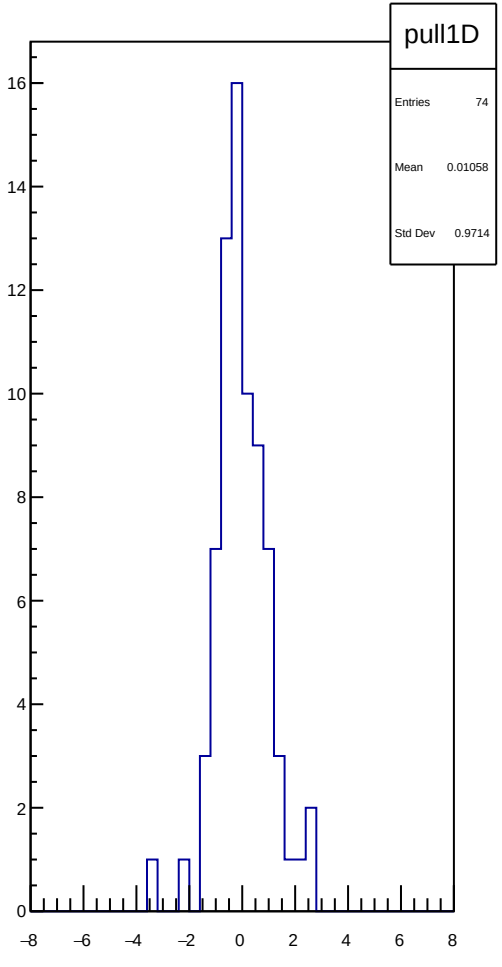

pull1D
Entries 74
Mean 0.01929
Std Dev 0.9494

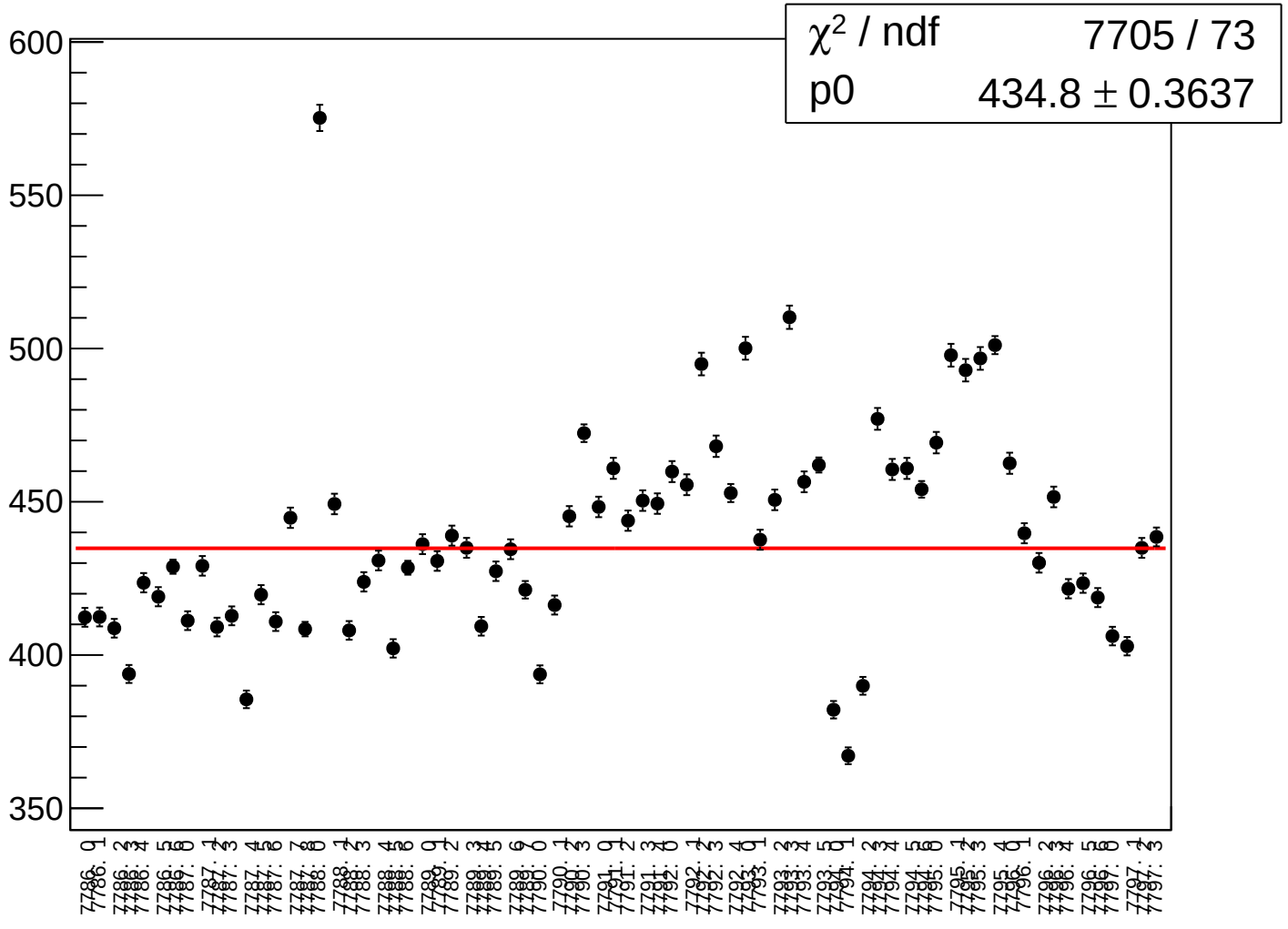

asym_bpm0l10WS_rms vs run
χ² / ndf 1.073e+04 / 73
p0 364.5 ± 0.3052
550
500
450
400
350
300

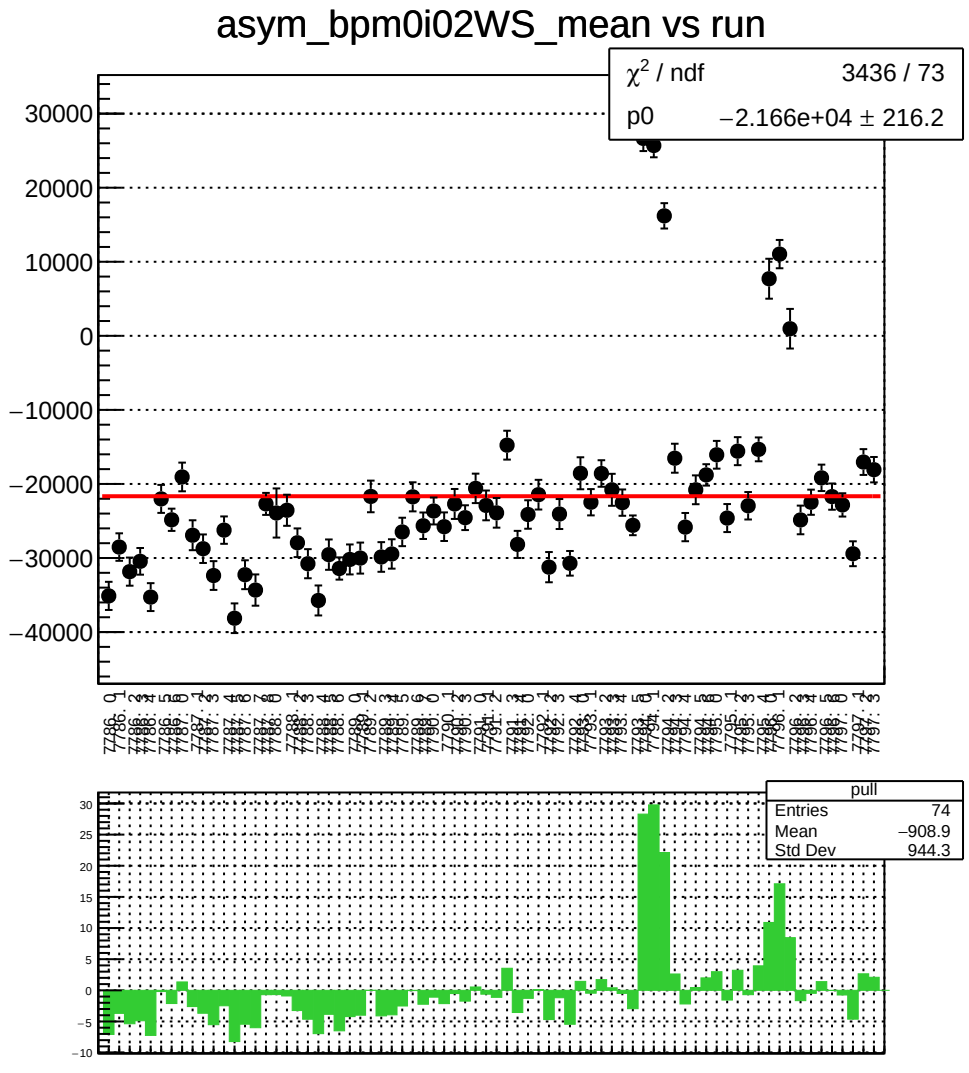

asym_bpm0r03WS_mean vs run
χ² / ndf 73.2 / 73
p0 1236 ± 553.7
pull
Entries 74
Mean −9323
Std Dev 9366
pull1D
Entries 74
Mean −0.000306
Std Dev 0.9946

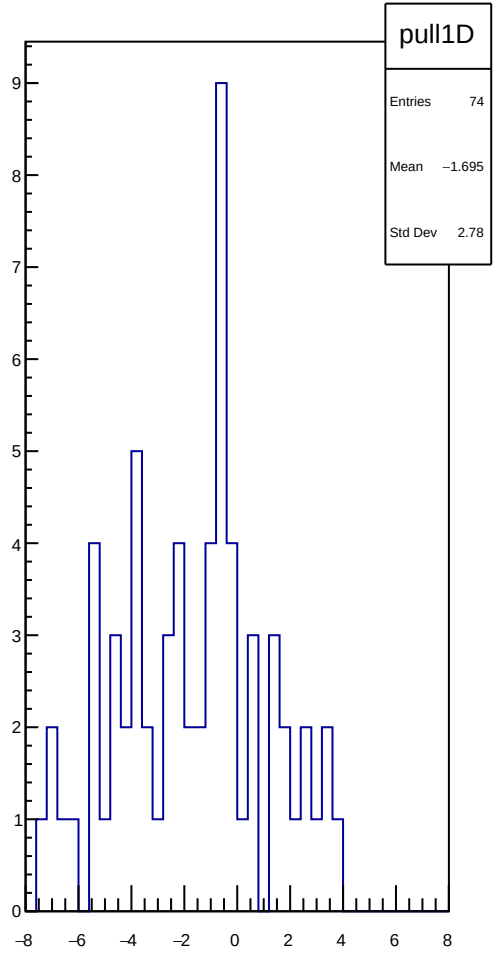

asym_bpm0r03WS_rms vs run
χ^2 / ndf 8107 / 73
p0 468 ± 0.3915
600
550
500
450
400

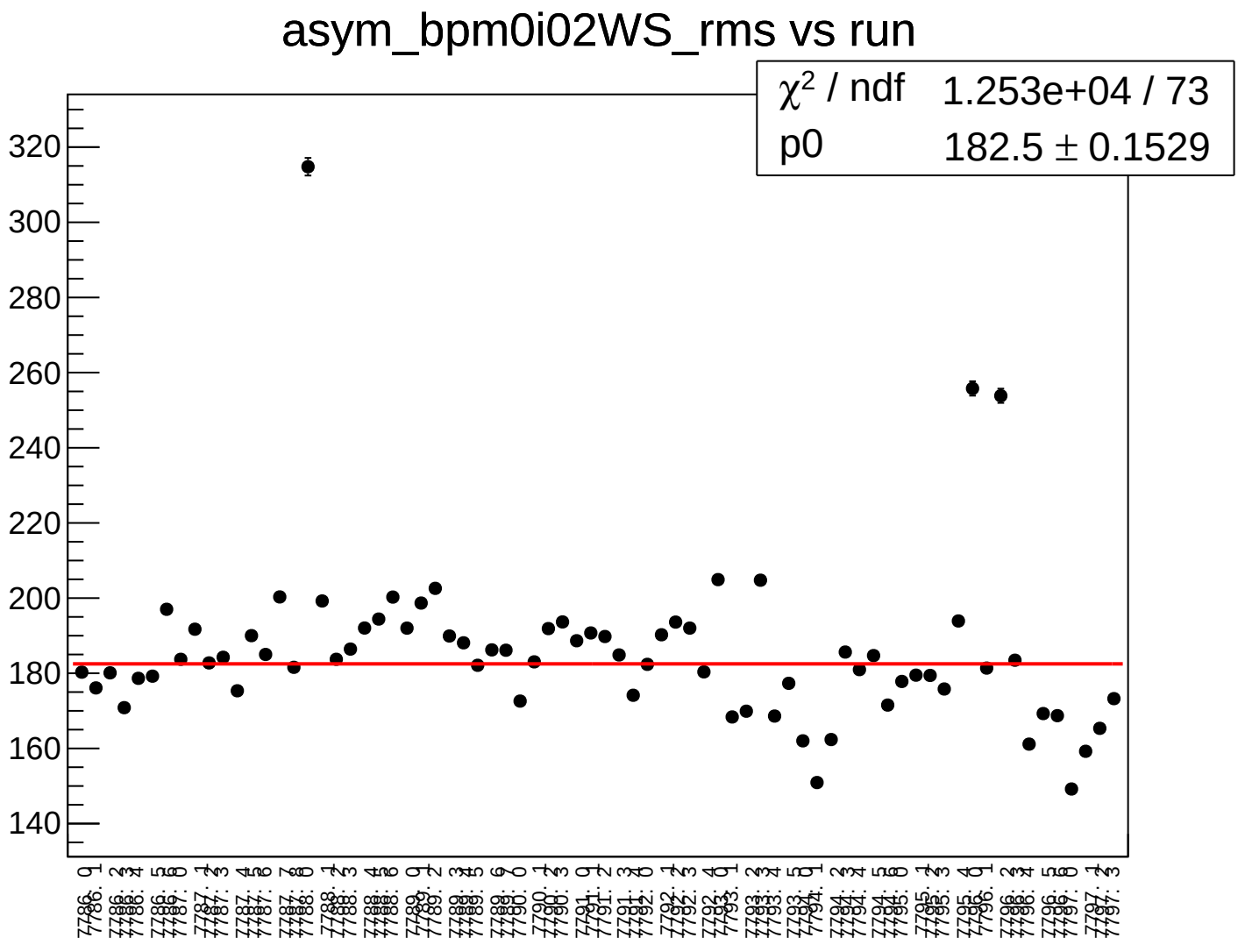

asym_bpm0r05WS_mean vs run
χ² / ndf 69.84 / 73
p0 909.4 ± 514.3
pull
Entries 74
Mean 664.2
Std Dev 630.3

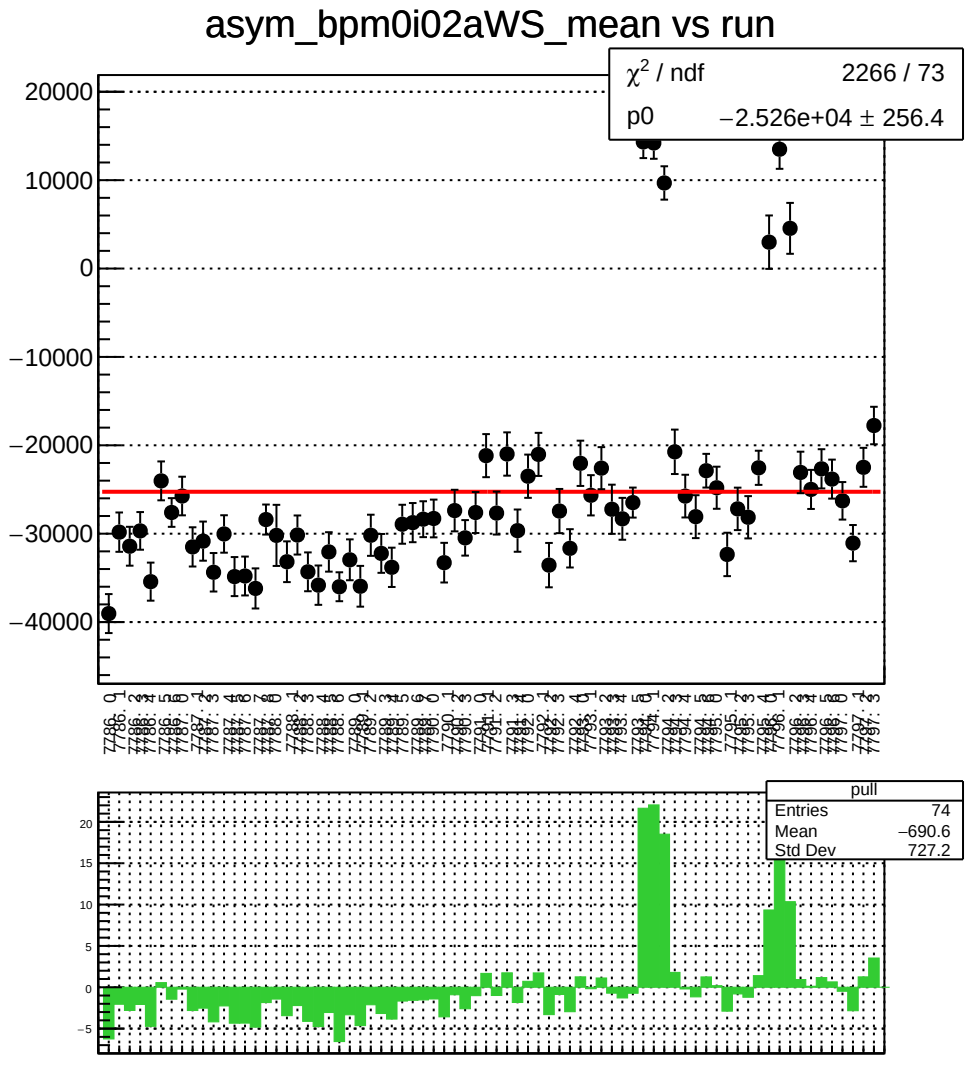

pull1D
Entries 74
Mean 0.01058
Std Dev 0.9714

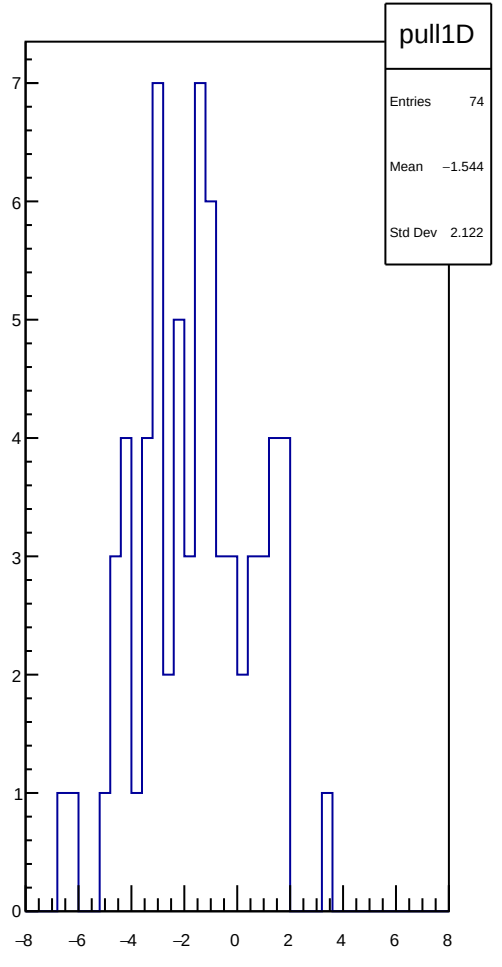

asym_bpm0r05WS_rms vs run
χ^2 / ndf 7705 / 73
p0 434.8 ± 0.3637
600
550
500
450
400
350

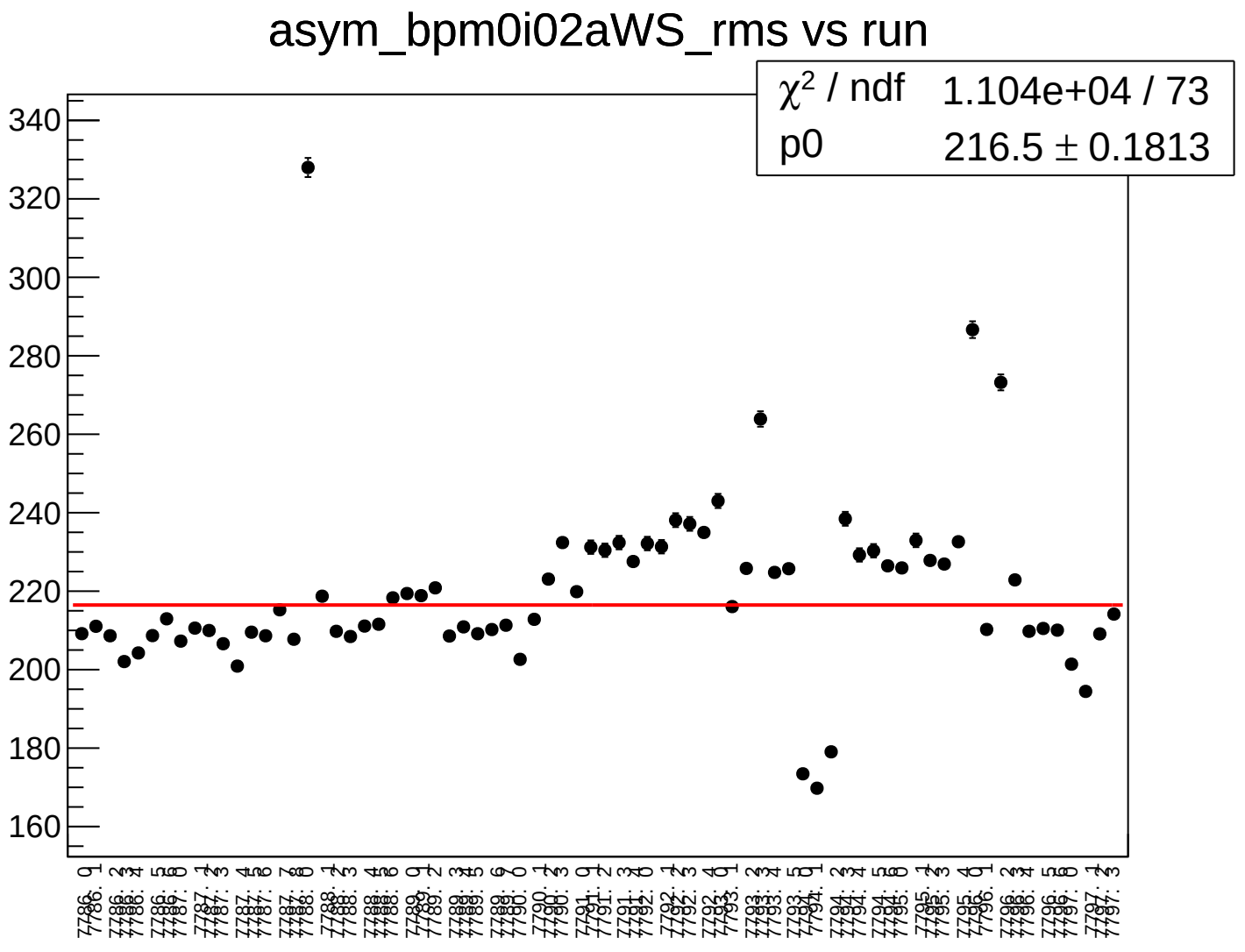

asym_bpm0i02WS_mean vs run
χ² / ndf 3436 / 73
p0 −2.166e+04 ± 216.2
pull
Entries 74
Mean −908.9
Std Dev 944.3

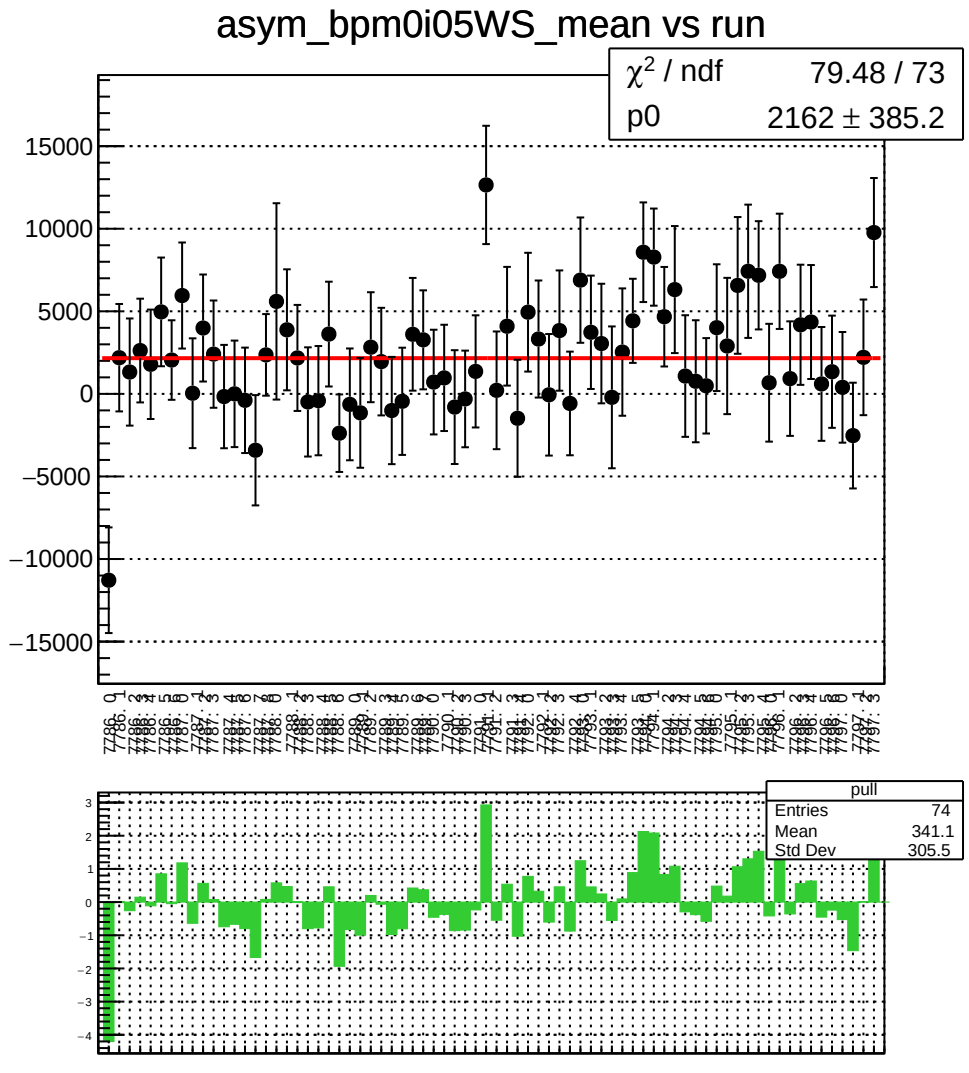

pull1D
Entries 74
Mean −1.695
Std Dev 2.78

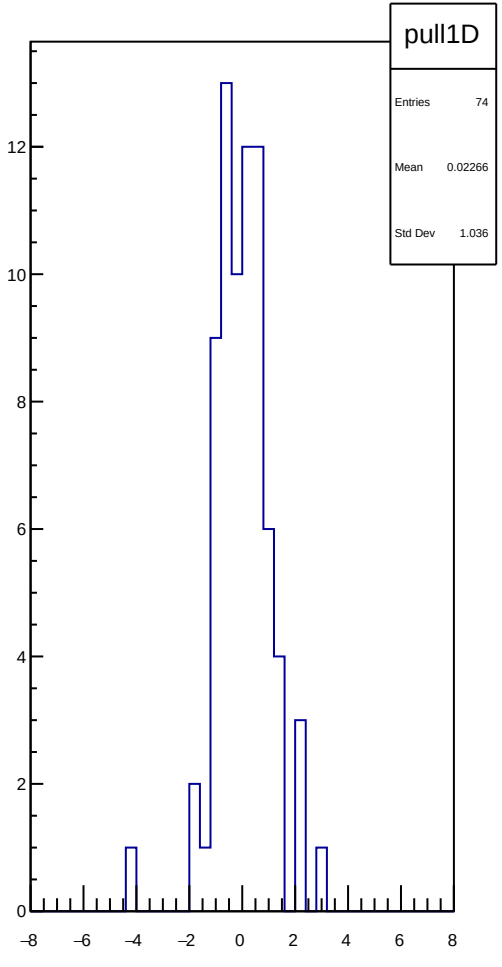

asym_bpm0i02WS_rms vs run
χ² / ndf 1.253e+04 / 73
p0 182.5 ± 0.1529
320
300
280
260
240
220
200
180
160
140

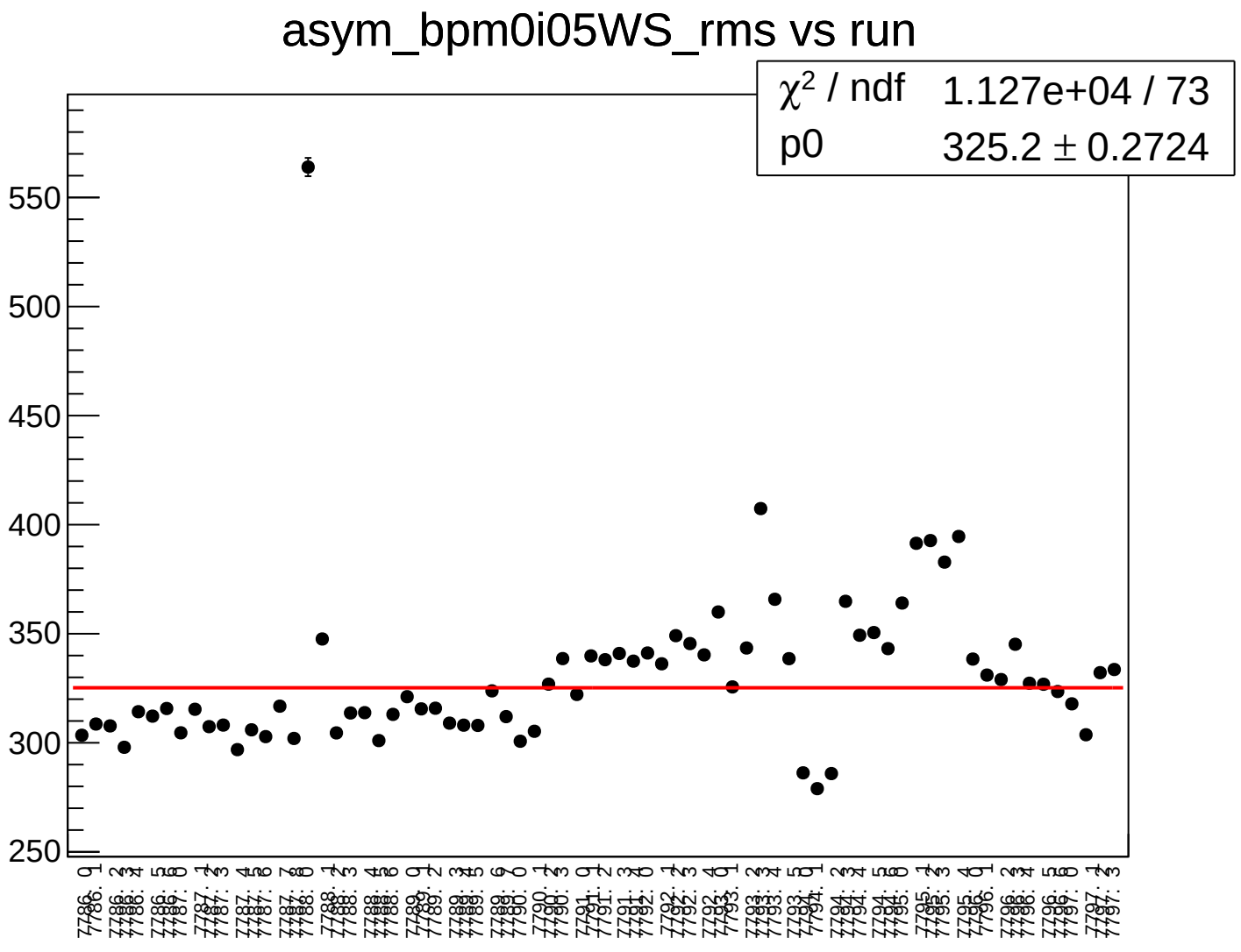

asym_bpm0i02aWS_mean vs run
χ² / ndf 2266 / 73
p0 −2.526e+04 ± 256.4
20000
10000
0
−10000
−20000
−30000
−40000
pull
Entries 74
Mean −690.6
Std Dev 727.2
20
15
10
5
0
−5

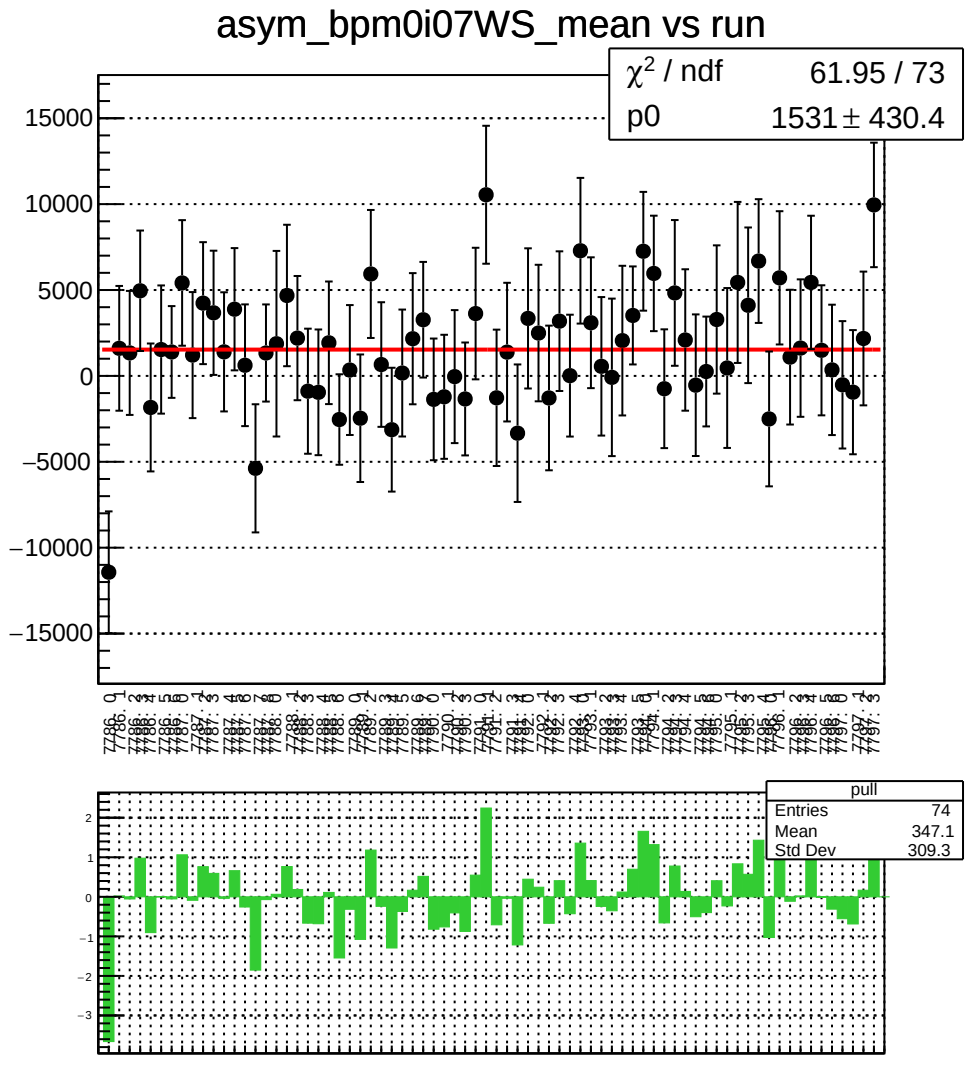

pull1D
Entries 74
Mean −1.544
Std Dev 2.122
7
6
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

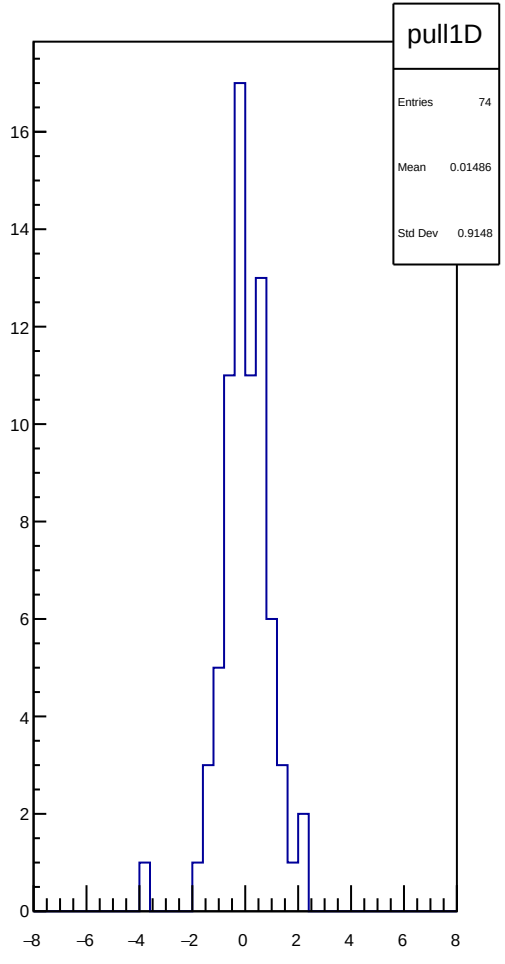

asym_bpm0i02aWS_rms vs run
χ² / ndf 1.104e+04 / 73
p0 216.5 ± 0.1813
340
320
300
280
260
240
220
200
180
160

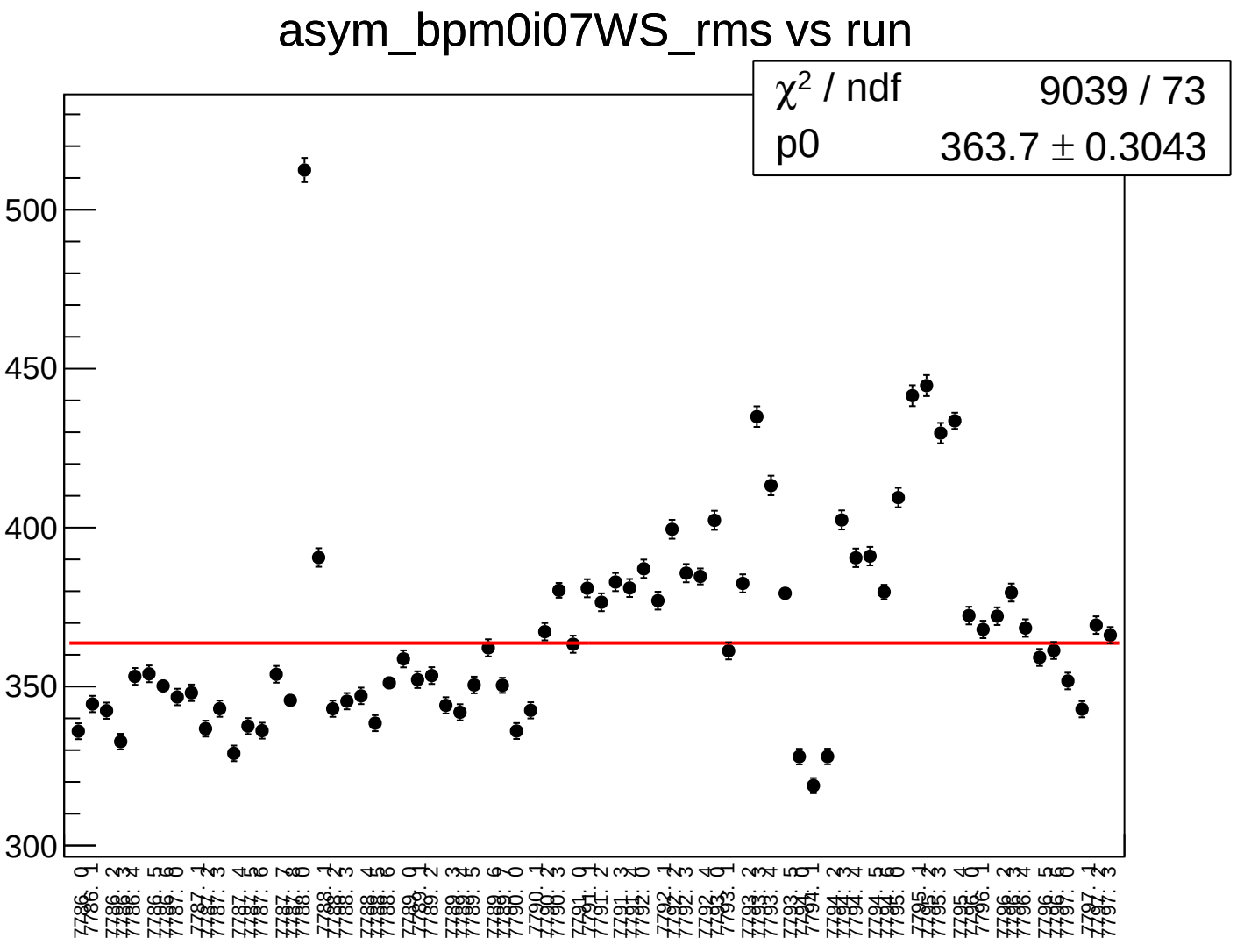

asym_bpm0i05WS_mean vs run
χ² / ndf 79.48 / 73
p0 2162 ± 385.2
pull
Entries 74
Mean 341.1
Std Dev 305.5

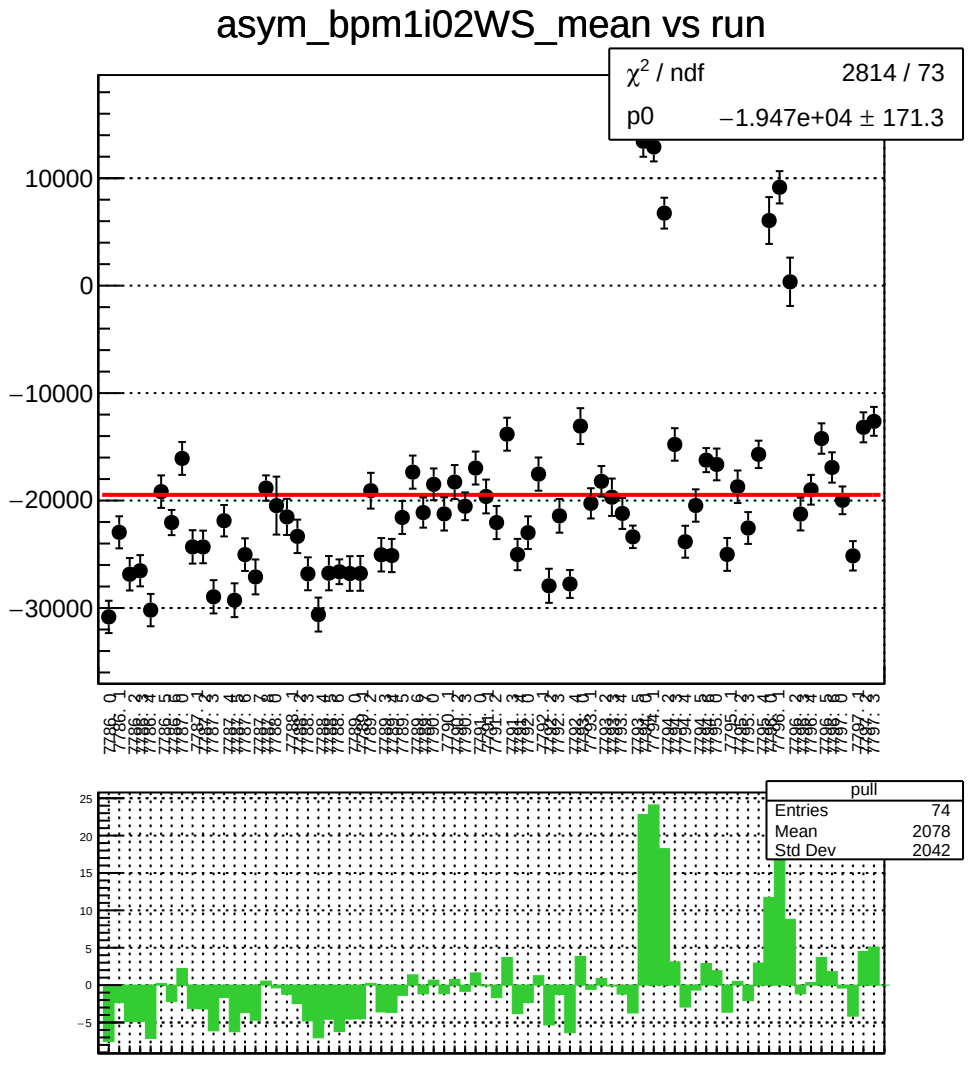

pull1D
Entries 74
Mean 0.02266
Std Dev 1.036

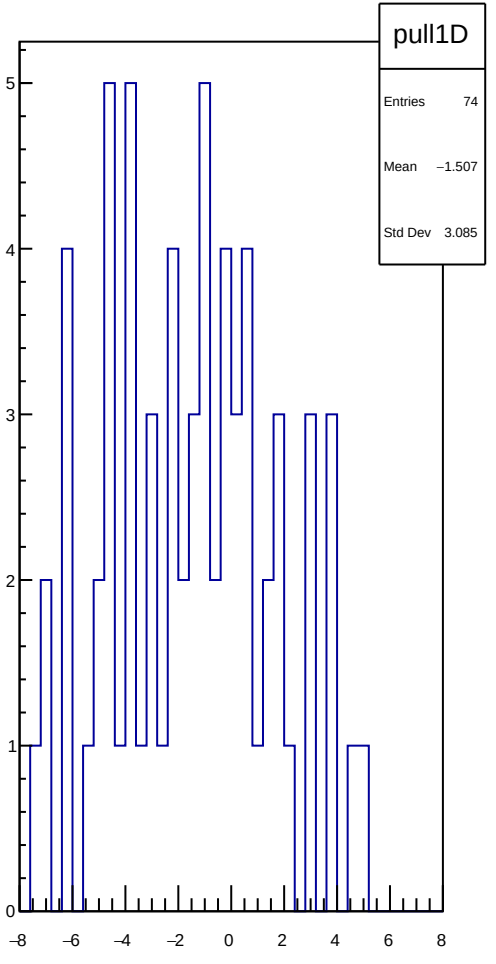

asym_bpm0i05WS_rms vs run
χ^2 / ndf 1.127e+04 / 73
p0 325.2 ± 0.2724
550
500
450
400
350
300
250

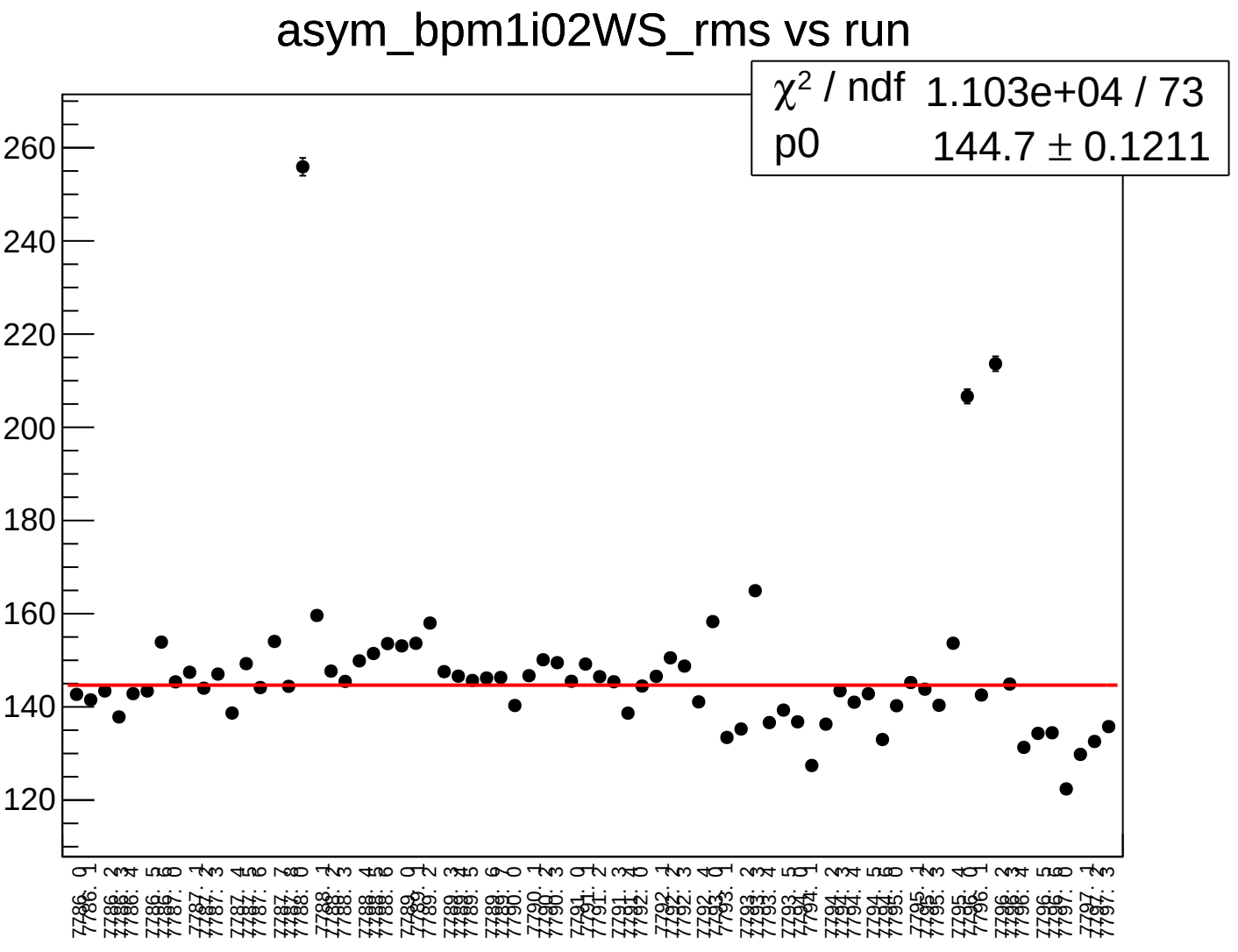

asym_bpm0i07WS_mean vs run
χ² / ndf 61.95 / 73
p0 1531 ± 430.4
15000
10000
5000
0
−5000
−10000
−15000
pull
Entries 74
Mean 347.1
Std Dev 309.3
2
1
0
−1
−2
−3

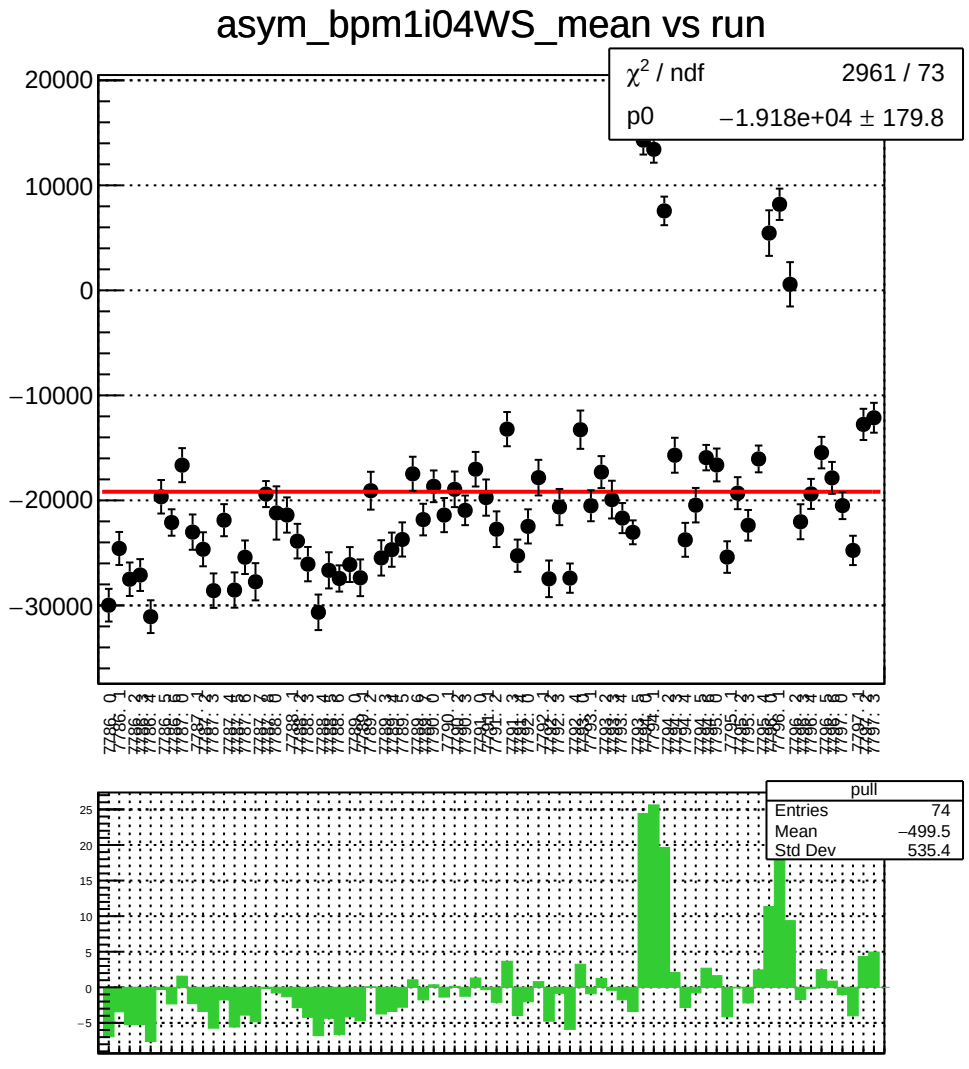

pull1D
Entries 74
Mean 0.01486
Std Dev 0.9148
16
14
12
10
8
6
4
2
0
−8
−6
−4
−2
0
2
4
6
8

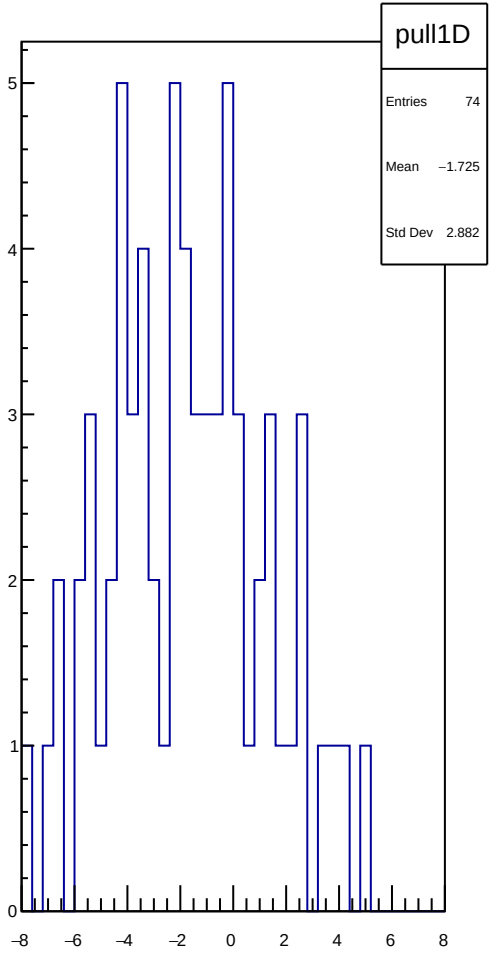

asym_bpm0i07WS_rms vs run
χ² / ndf 9039 / 73
p0 363.7 ± 0.3043
500
450
400
350
300

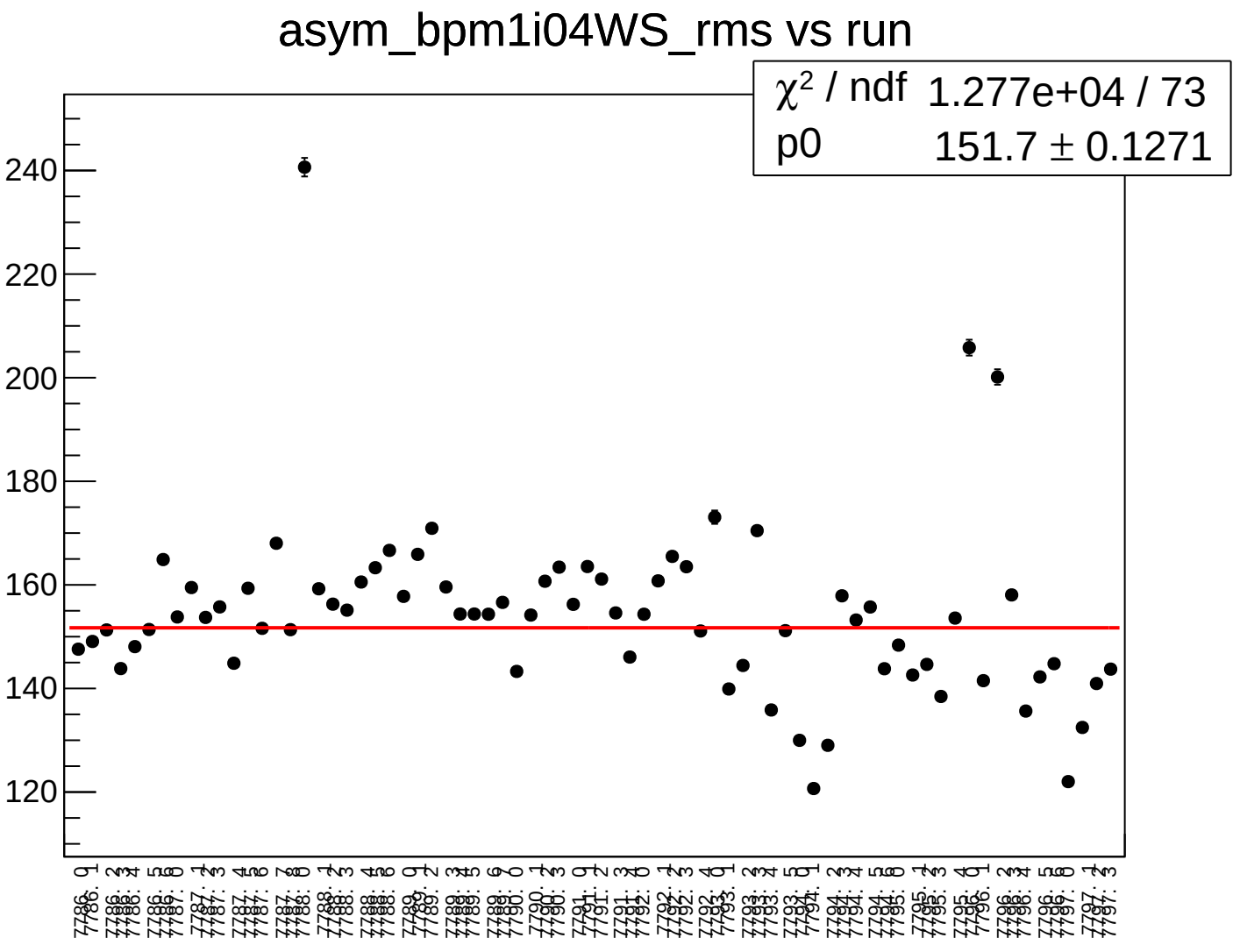

asym_bpm1i02WS_mean vs run
χ² / ndf 2814 / 73
p0 −1.947e+04 ± 171.3
10000
0
−10000
−20000
−30000
pull
Entries 74
Mean 2078
Std Dev 2042
25
20
15
10
5
0
−5

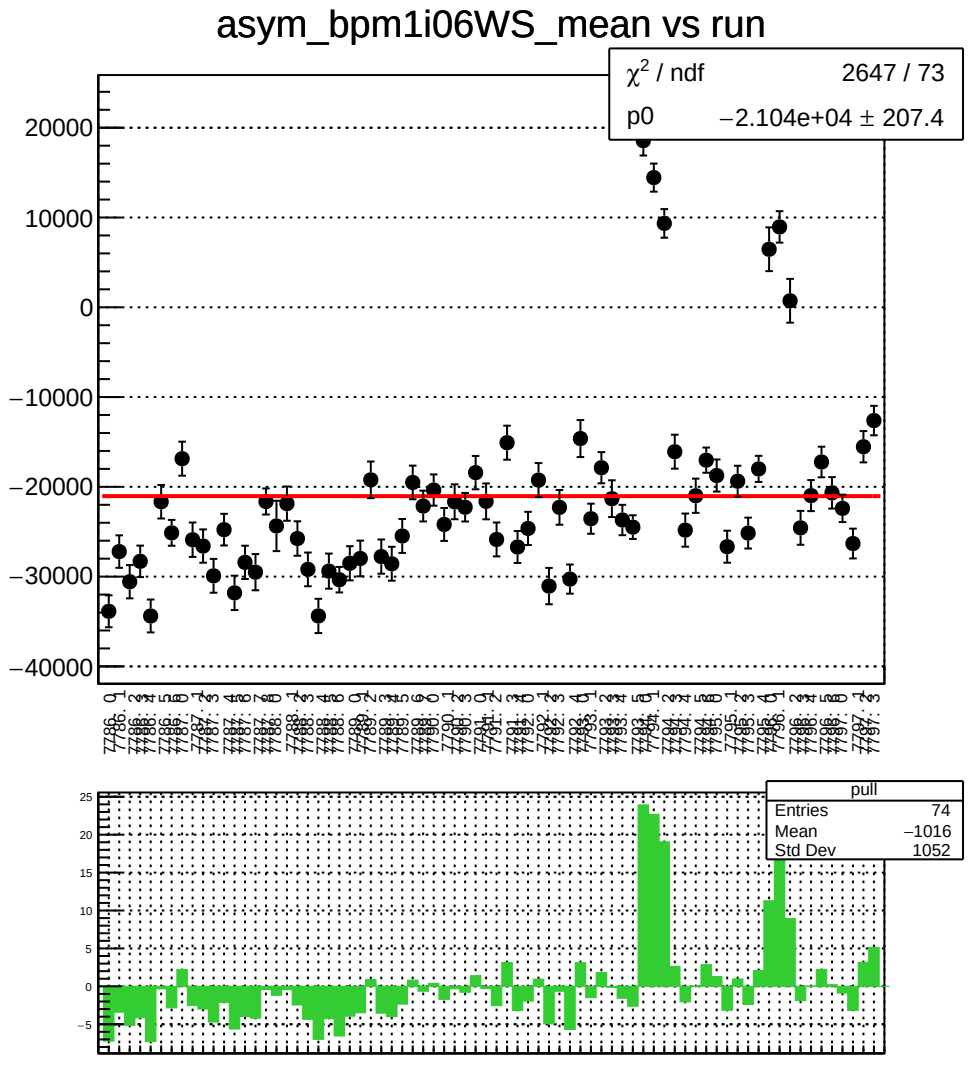

pull1D
Entries 74
Mean −1.507
Std Dev 3.085
5
4
3
2
1
0
−8
−6
−4
−2
0
2
4
6
8

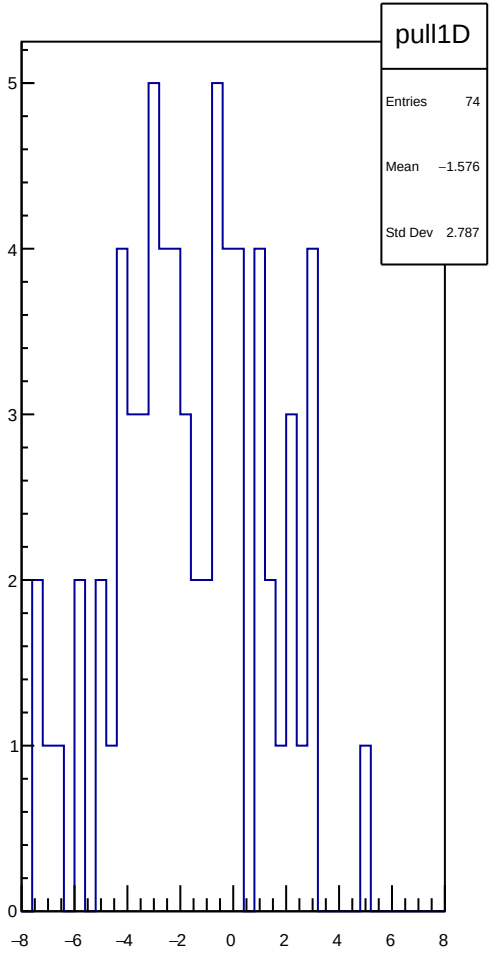

asym_bpm1i02WS_rms vs run
χ² / ndf 1.103e+04 / 73
p0 144.7 ± 0.1211
260
240
220
200
180
160
140
120

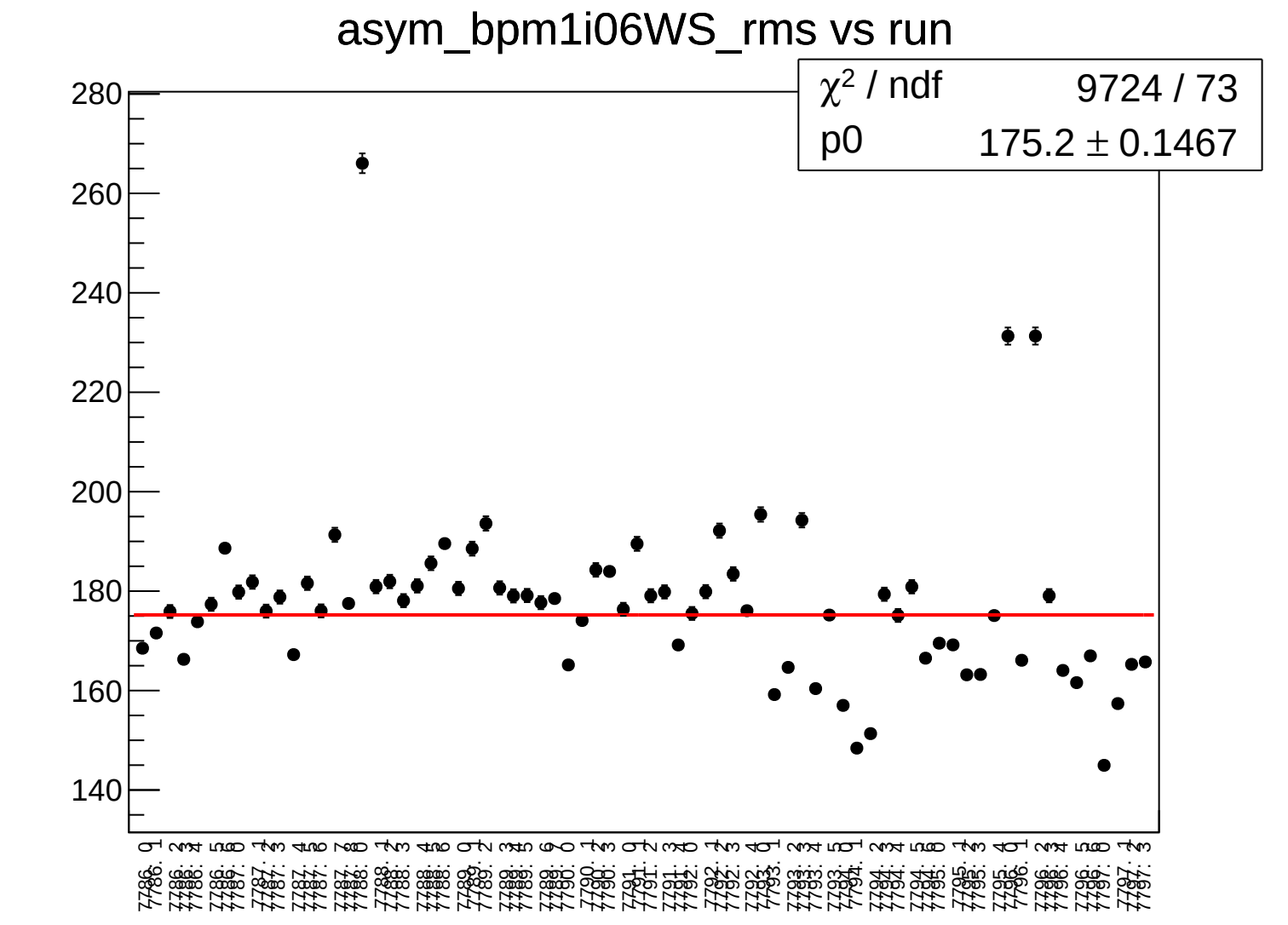

asym_bpm1i04WS_mean vs run
χ² / ndf 2961 / 73
p0 −1.918e+04 ± 179.8
pull
Entries 74
Mean −499.5
Std Dev 535.4

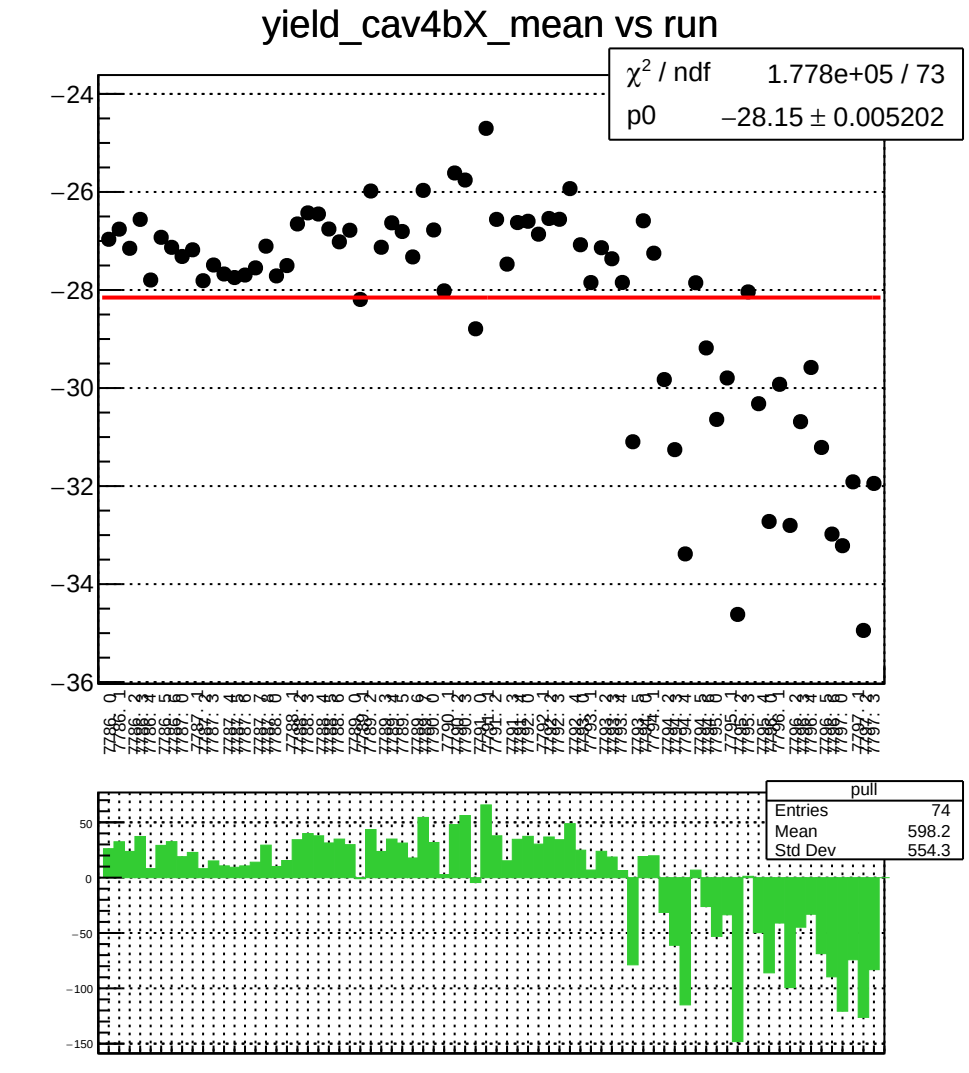

pull1D
Entries 74
Mean −1.725
Std Dev 2.882

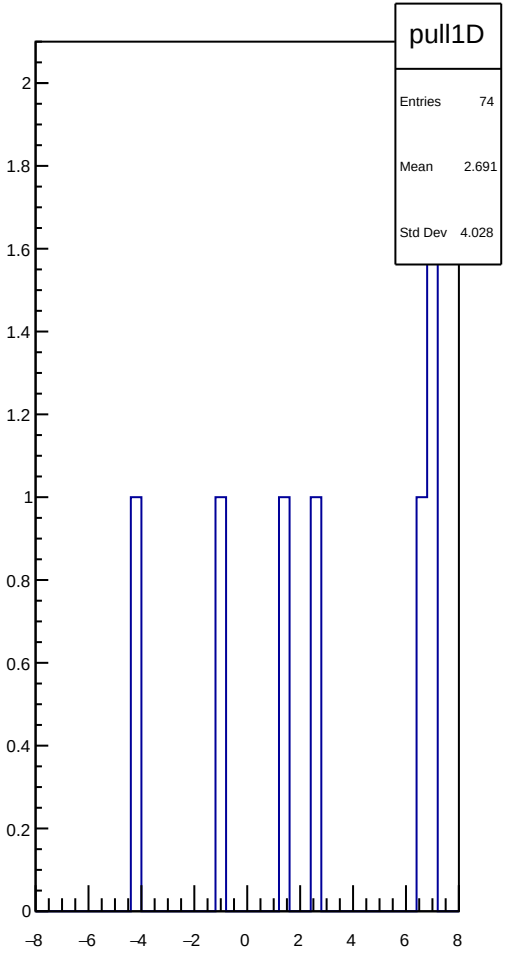

asym_bpm1i04WS_rms vs run
χ² / ndf 1.277e+04 / 73
p0 151.7 ± 0.1271
240
220
200
180
160
140
120

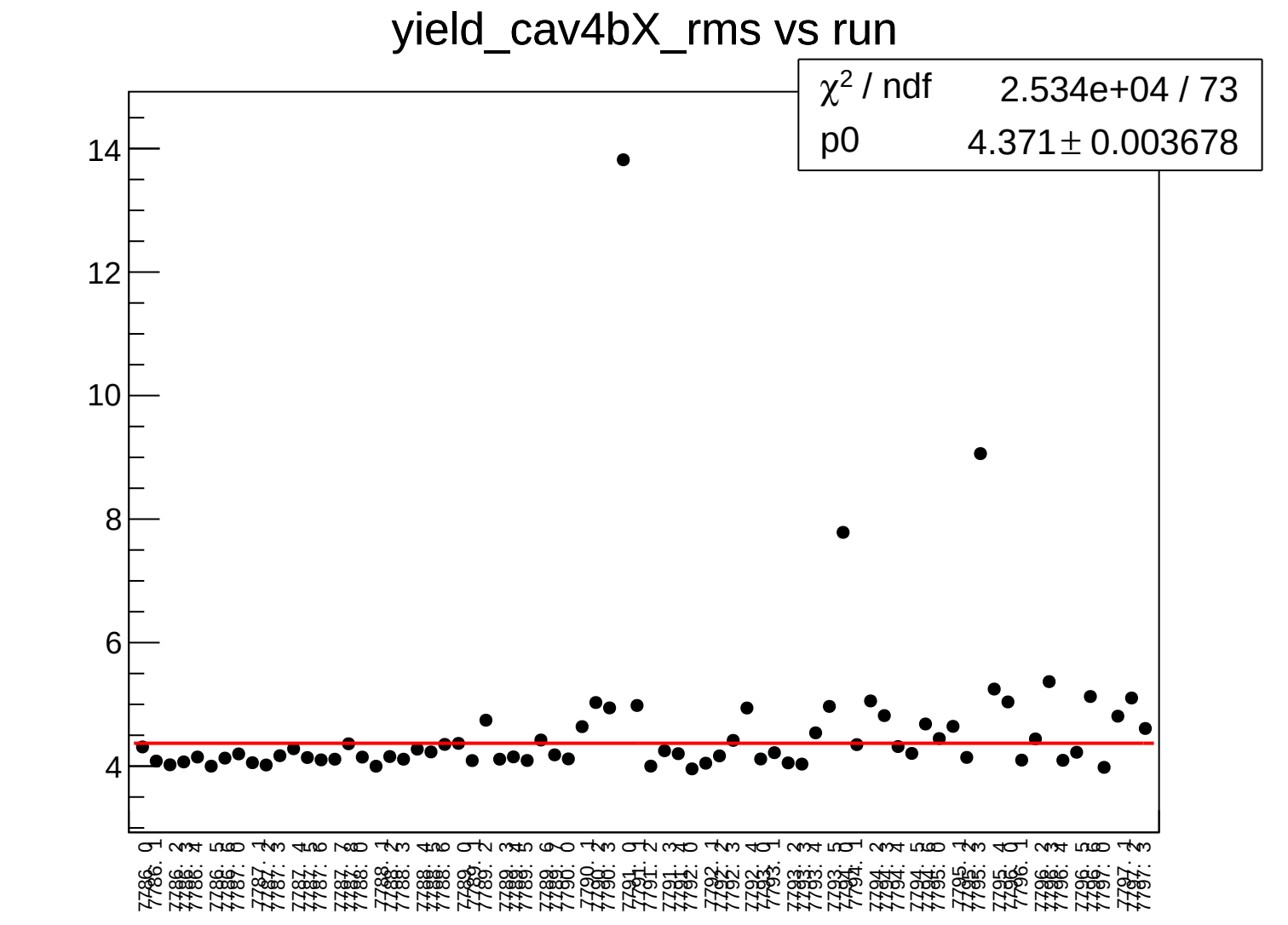

asym_bpm1i06WS_mean vs run
χ² / ndf 2647 / 73
p0 −2.104e+04 ± 207.4
pull
Entries 74
Mean −1016
Std Dev 1052

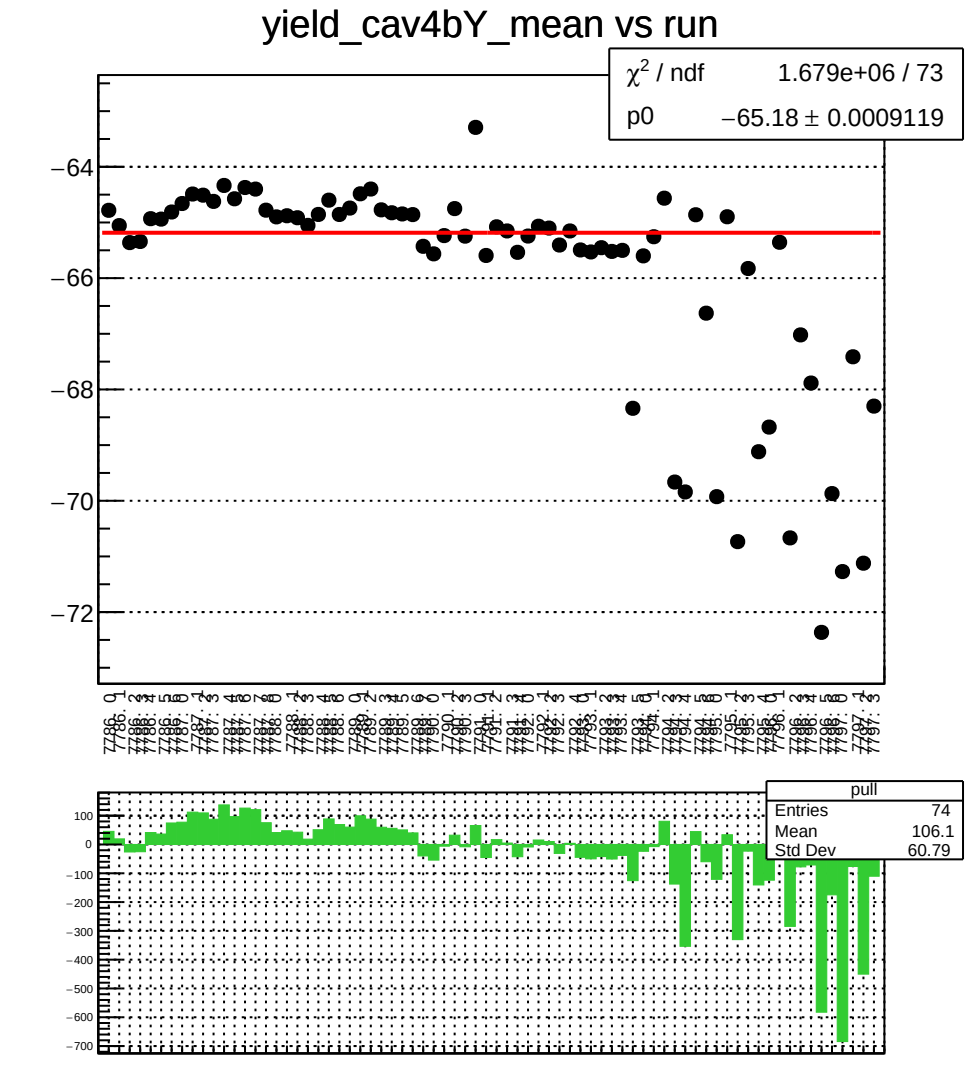

pull1D
Entries 74
Mean −1.576
Std Dev 2.787

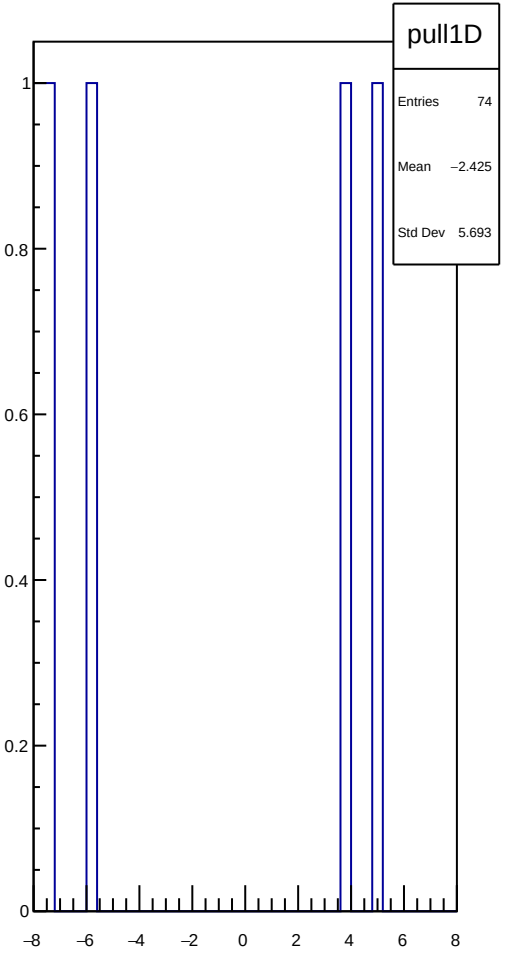

asym_bpm1i06WS_rms vs run
χ^2 / ndf 9724 / 73
p0 175.2 ± 0.1467
280
260
240
220
200
180
160
140

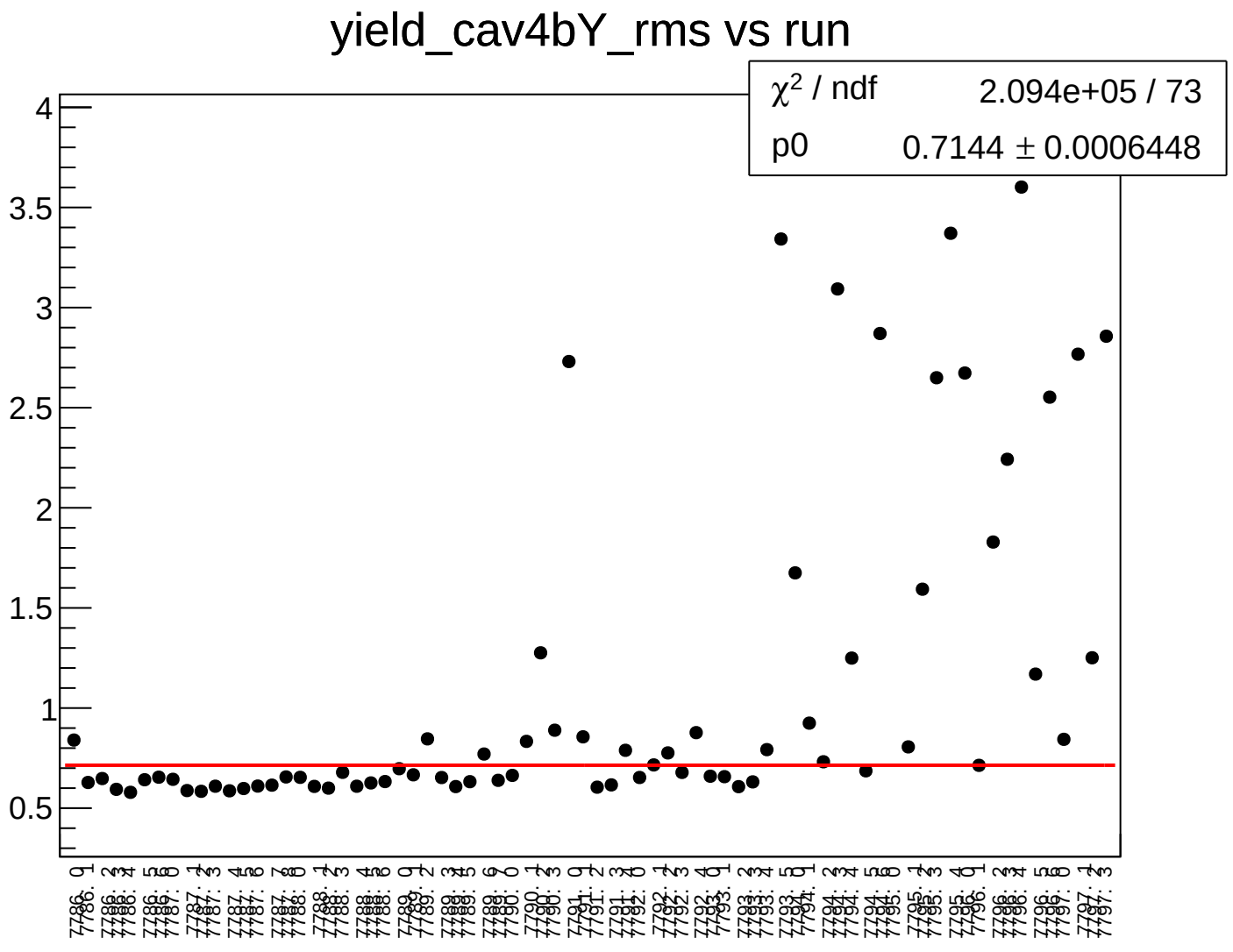

yield_cav4bX_mean vs run
χ² / ndf 1.778e+05 / 73
p0 −28.15 ± 0.005202
−24
−26
−28
−30
−32
−34
−36
pull
Entries 74
Mean 598.2
Std Dev 554.3
50
0
−50
−100
−150

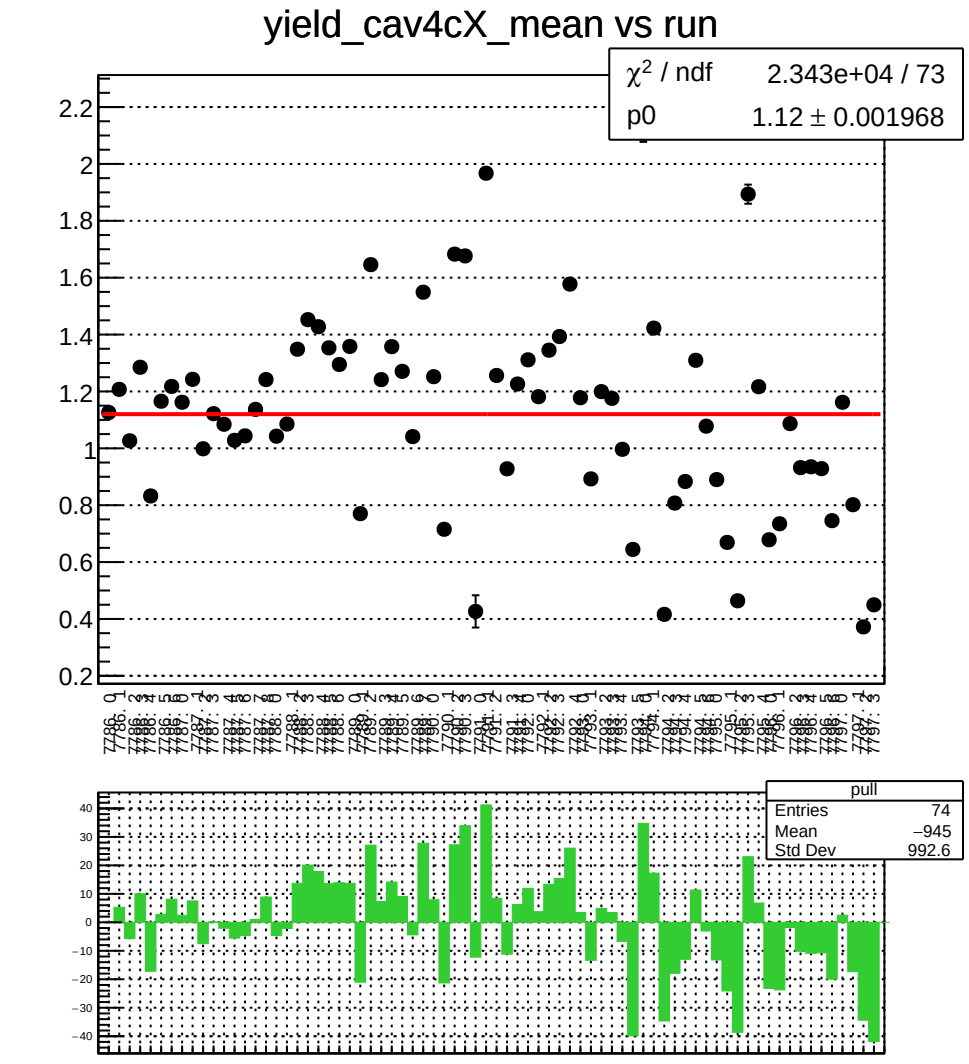

pull1D
Entries 74
Mean 2.691
Std Dev 4.028
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

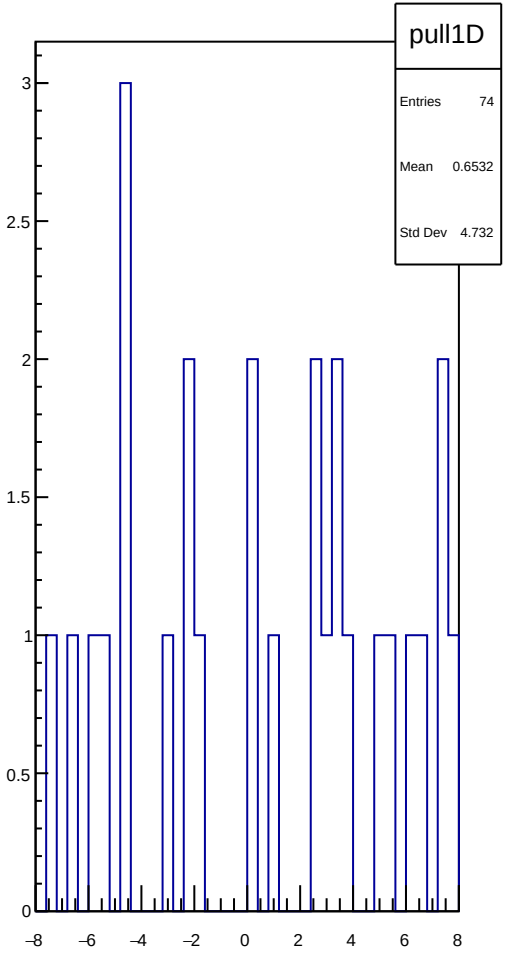

yield_cav4bX_rms vs run
χ^2 / ndf 2.534e+04 / 73
p0 4.371 ± 0.003678
14
12
10
8
6
4

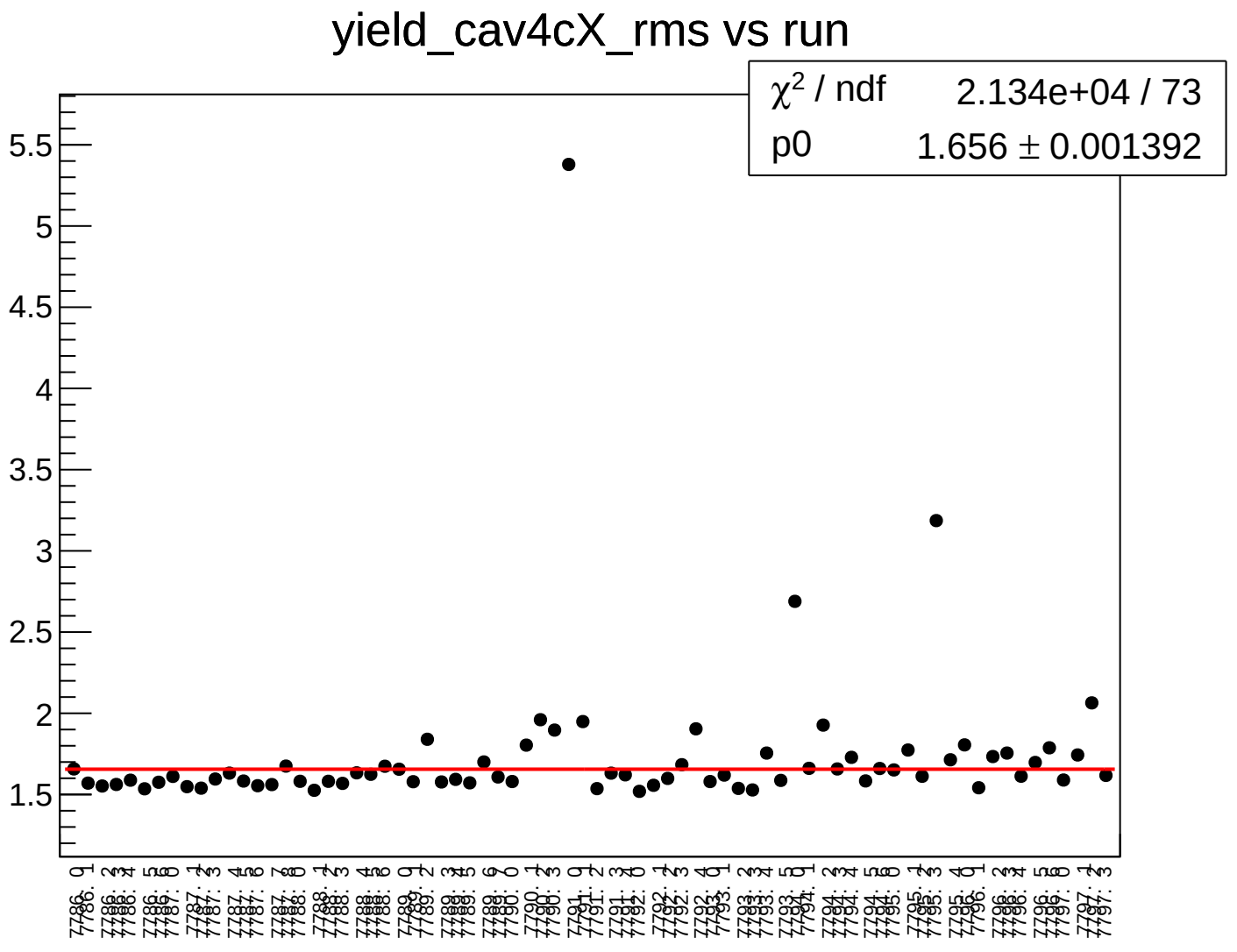

yield_cav4bY_mean vs run
χ² / ndf 1.679e+06 / 73
p0 −65.18 ± 0.0009119
−64
−66
−68
−70
−72
pull
Entries 74
Mean 106.1
Std Dev 60.79
100
0
−100
−200
−300
−400
−500
−600
−700

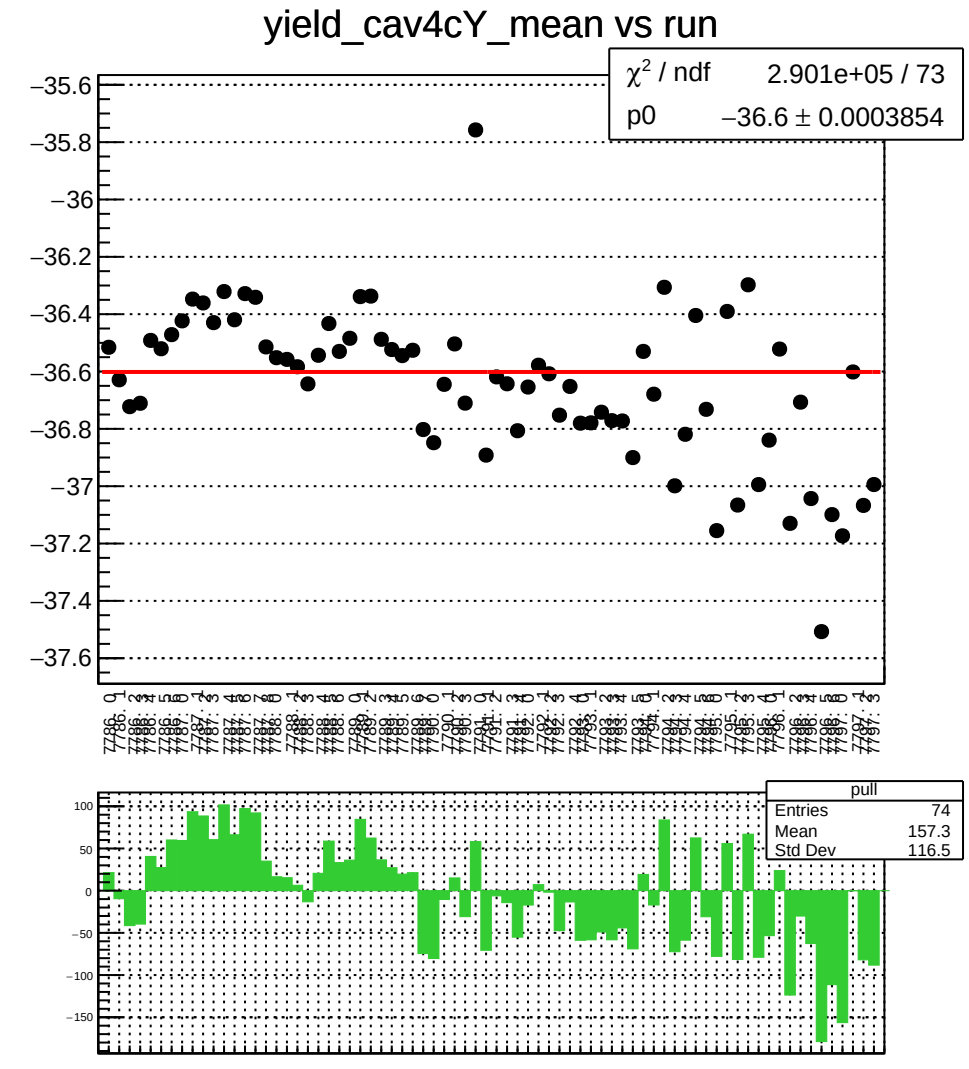

pull1D
Entries 74
Mean −2.425
Std Dev 5.693
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

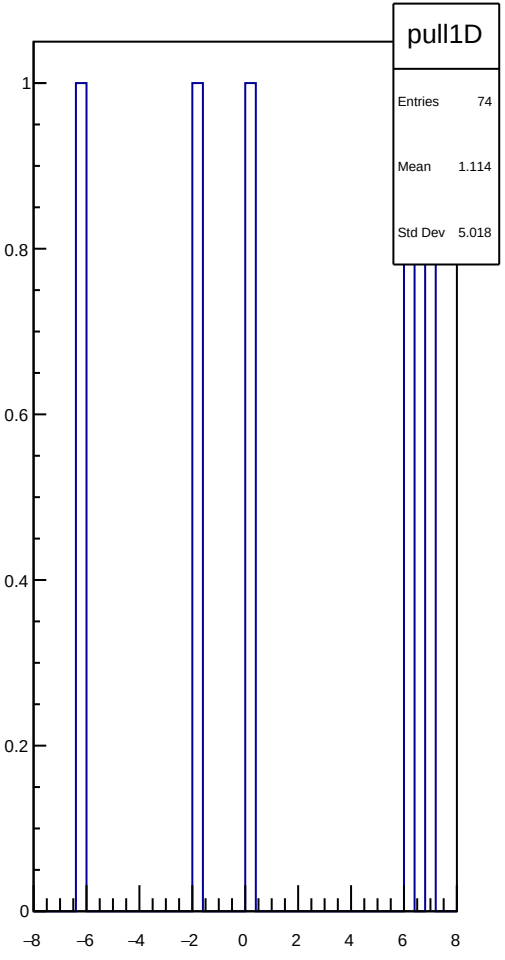

yield_cav4bY_rms vs run
χ² / ndf 2.094e+05 / 73
p0 0.7144 ± 0.0006448
4
3.5
3
2.5
2
1.5
1
0.5

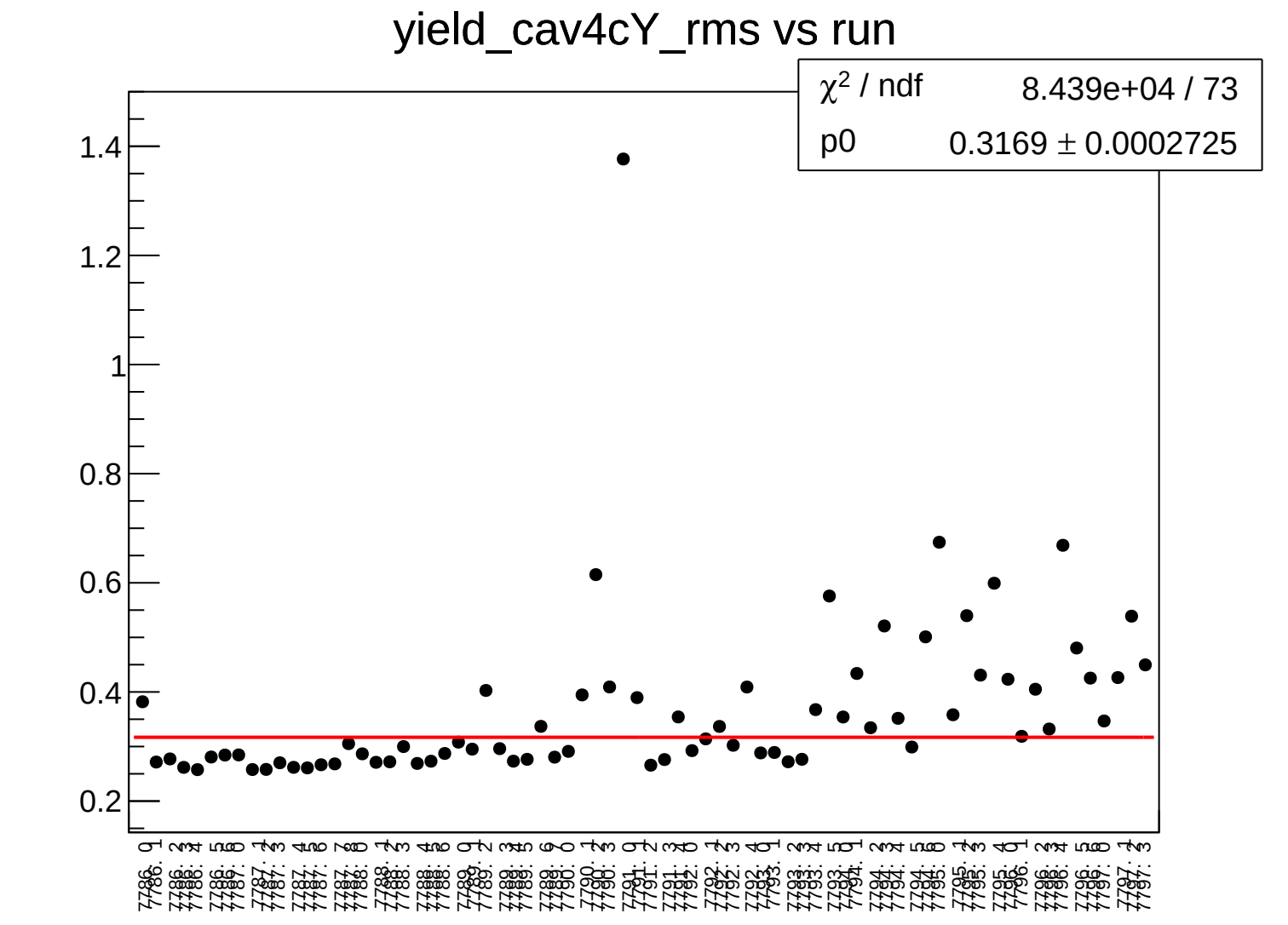

yield_cav4cX_mean vs run
χ² / ndf 2.343e+04 / 73
p0 1.12 ± 0.001968
pull
Entries 74
Mean −945
Std Dev 992.6

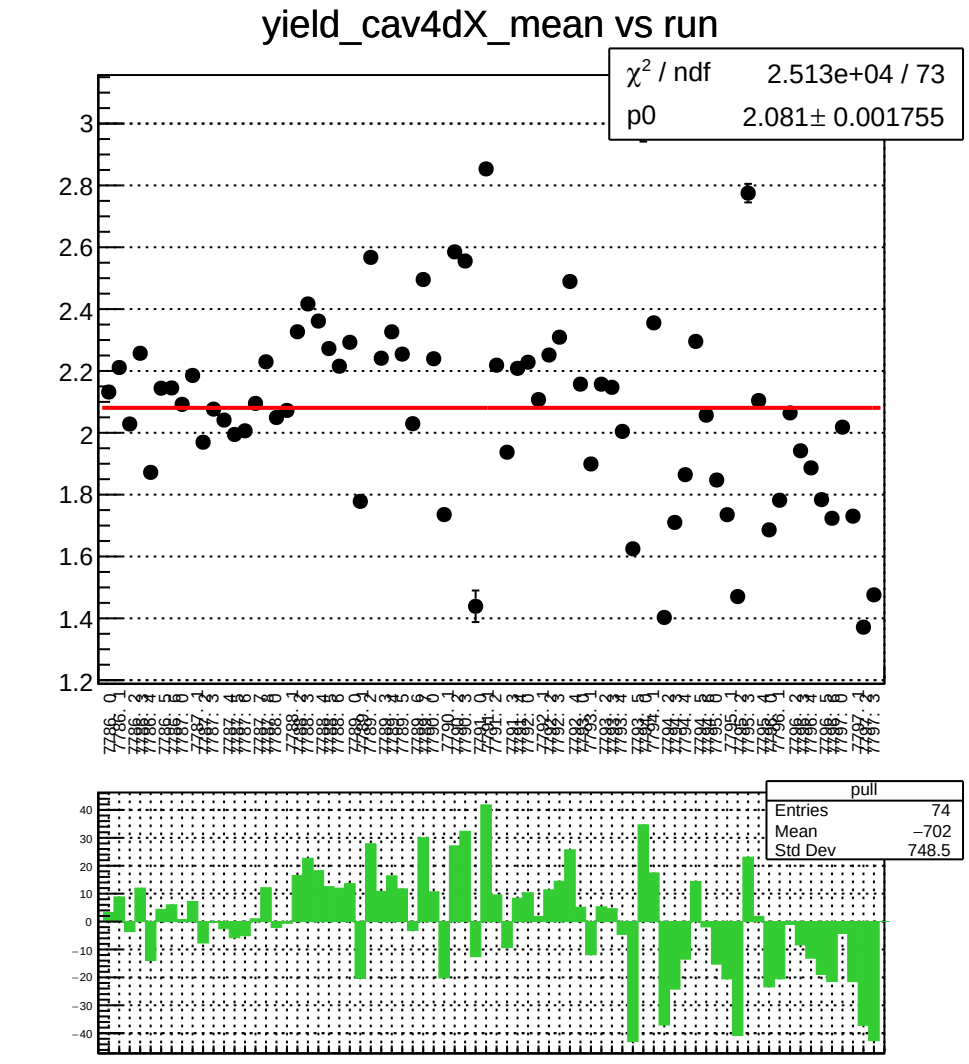

pull1D
Entries 74
Mean 0.6532
Std Dev 4.732

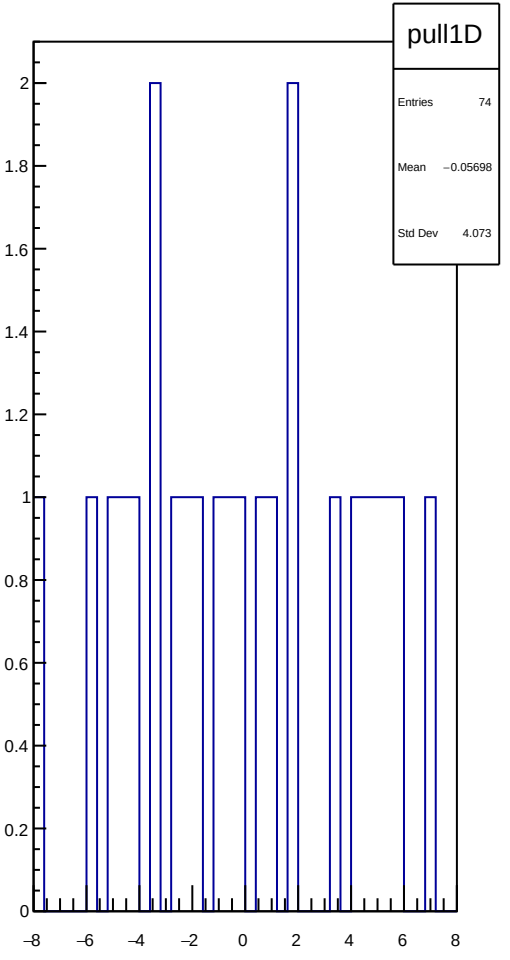

yield_cav4cX_rms vs run
χ^2 / ndf 2.134e+04 / 73
p0 1.656 ± 0.001392
5.5
5
4.5
4
3.5
3
2.5
2
1.5

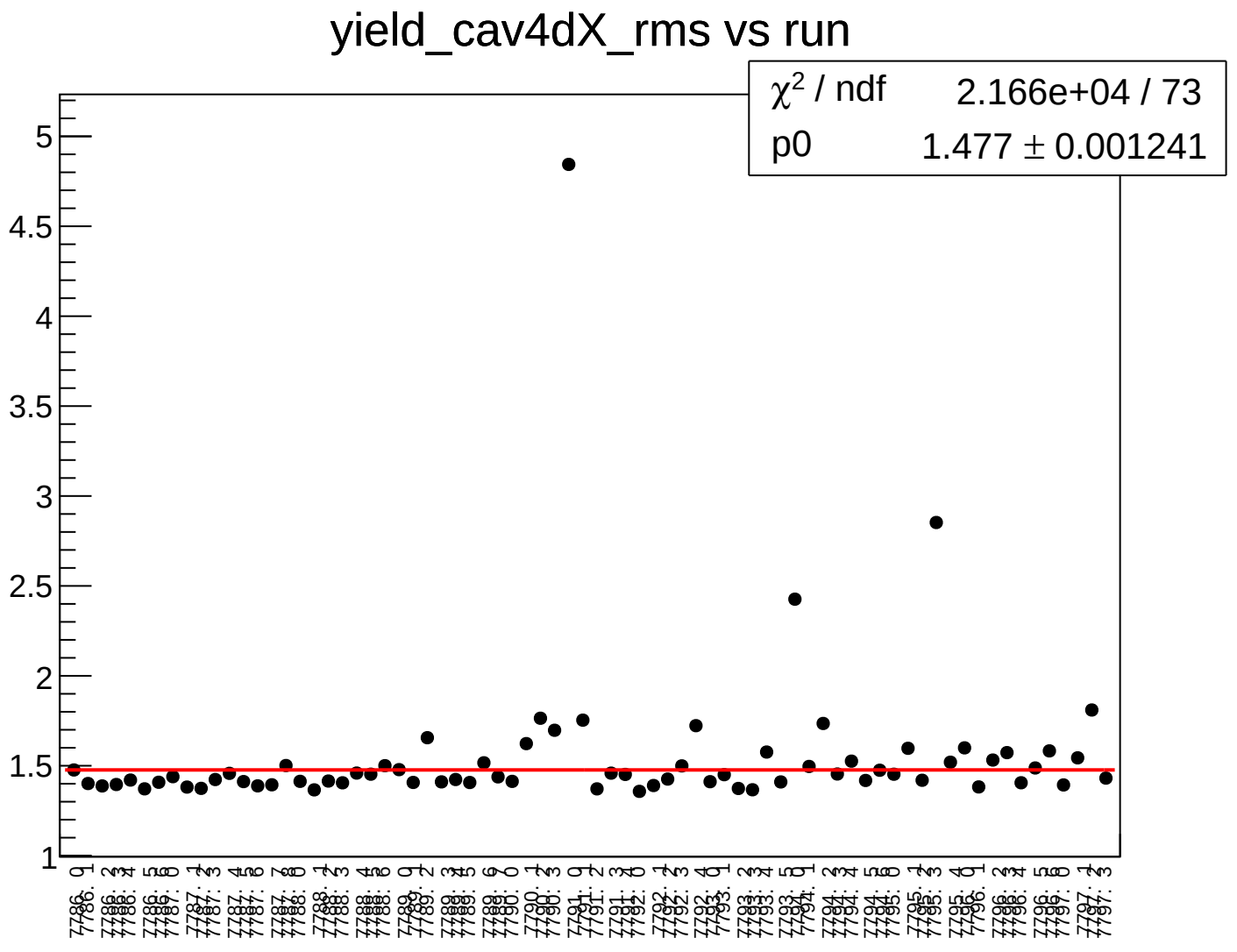

yield_cav4cY_mean vs run
χ² / ndf 2.901e+05 / 73
p0 −36.6 ± 0.0003854
pull
Entries 74
Mean 157.3
Std Dev 116.5

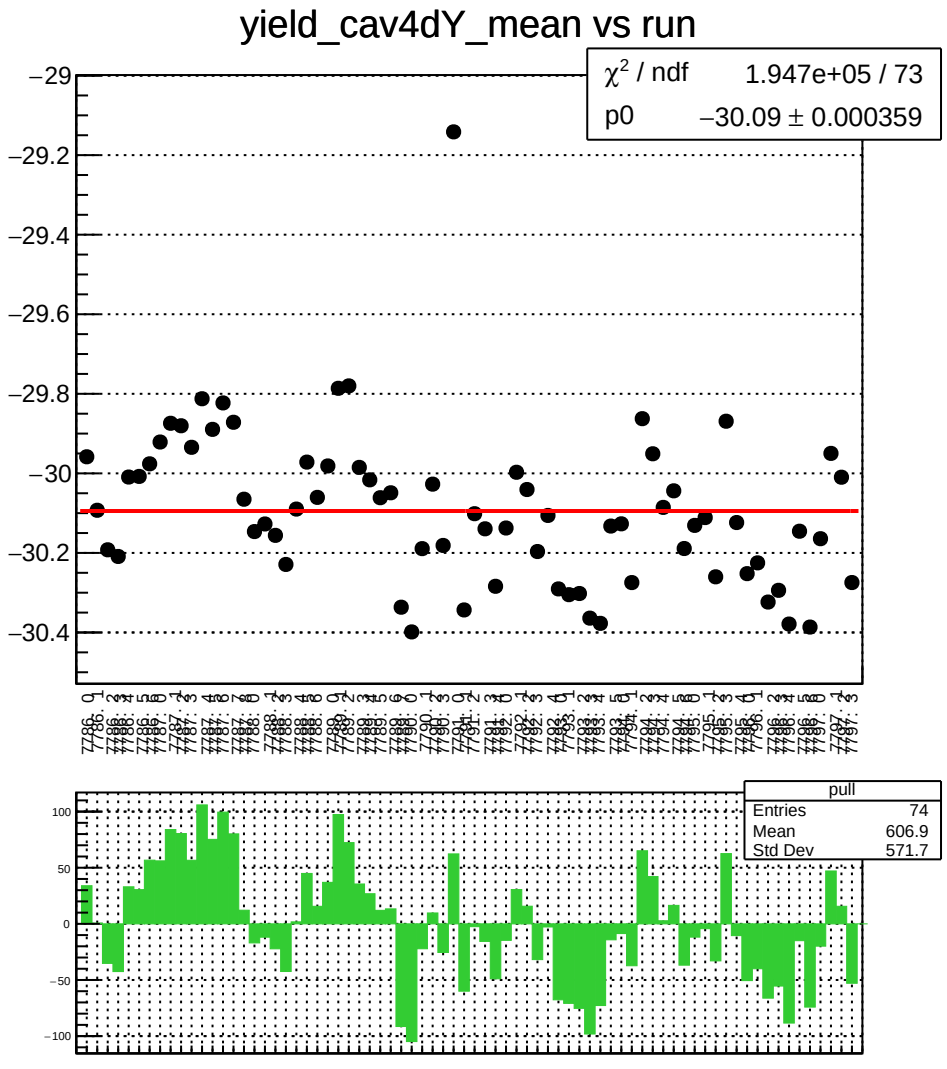

pull1D
Entries 74
Mean 1.114
Std Dev 5.018

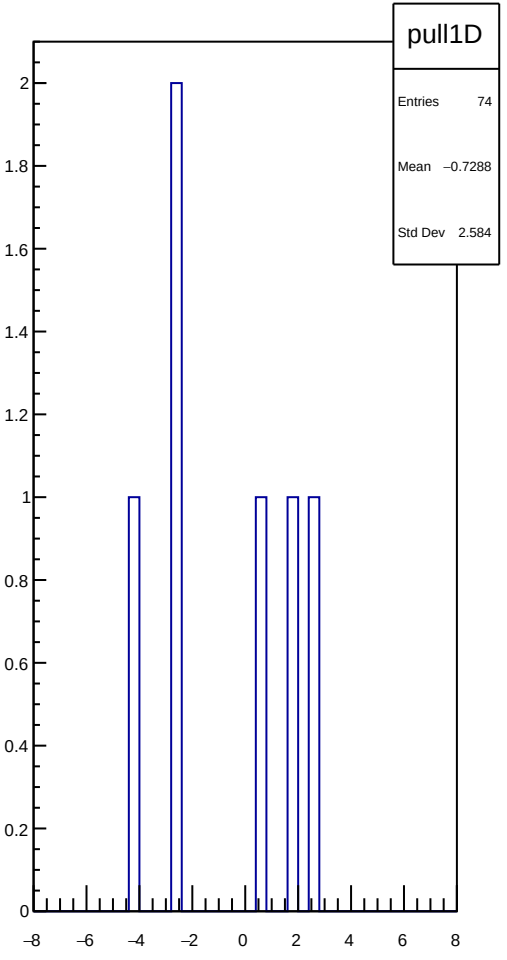

yield_cav4cY_rms vs run
χ² / ndf 8.439e+04 / 73
p0 0.3169 ± 0.0002725
1.4
1.2
1
0.8
0.6
0.4
0.2

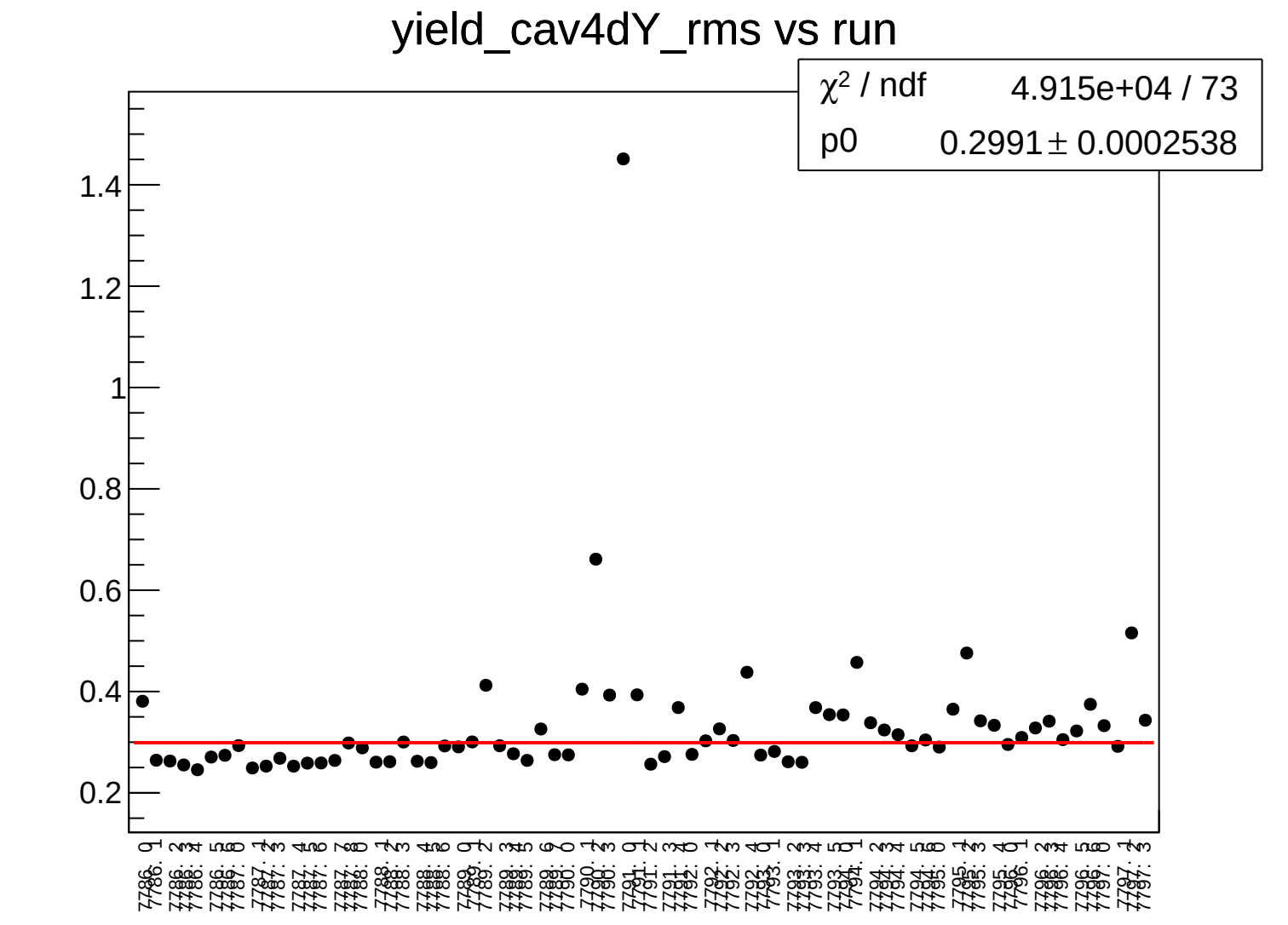

yield_cav4dX_mean vs run
χ² / ndf 2.513e+04 / 73
p0 2.081± 0.001755
pull
Entries 74
Mean −702
Std Dev 748.5

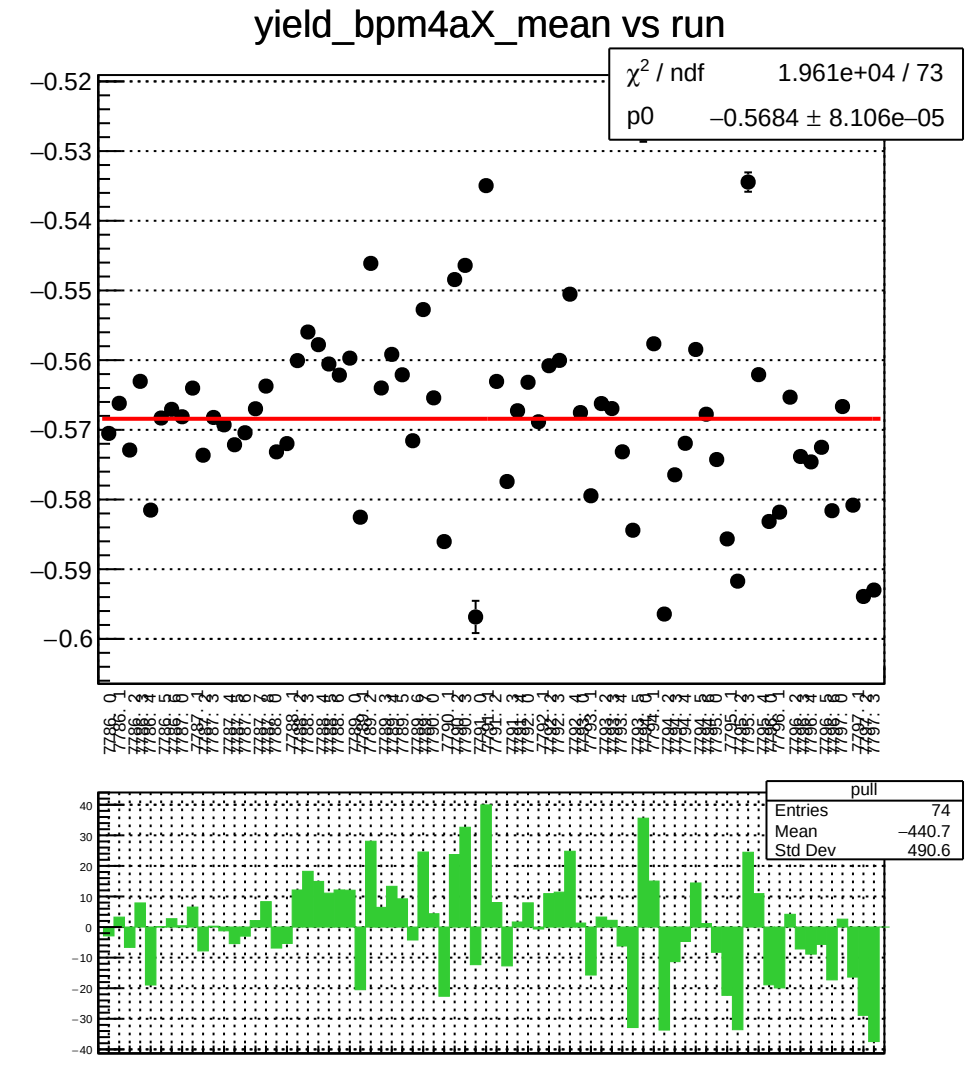

pull1D
Entries 74
Mean −0.05698
Std Dev 4.073

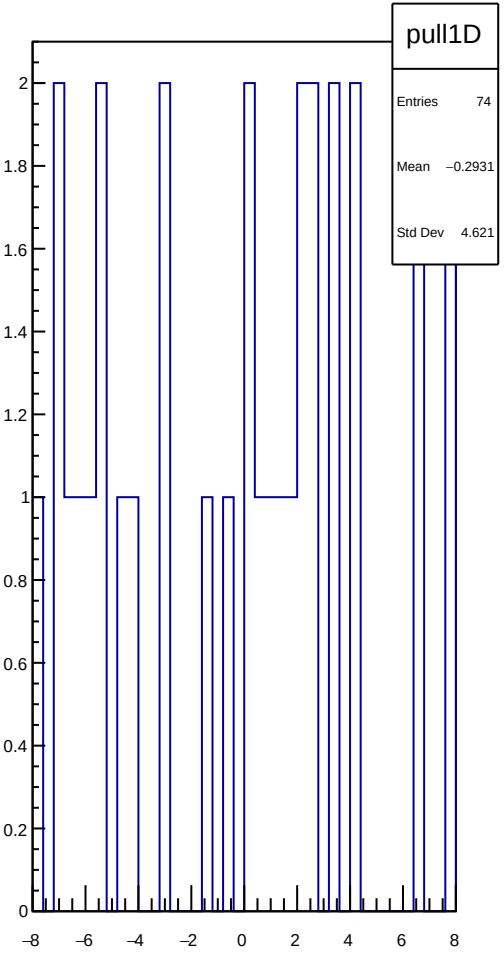

yield_cav4dX_rms vs run
χ^2 / ndf 2.166e+04 / 73
p0 1.477 ± 0.001241
5
4.5
4
3.5
3
2.5
2
1.5
1

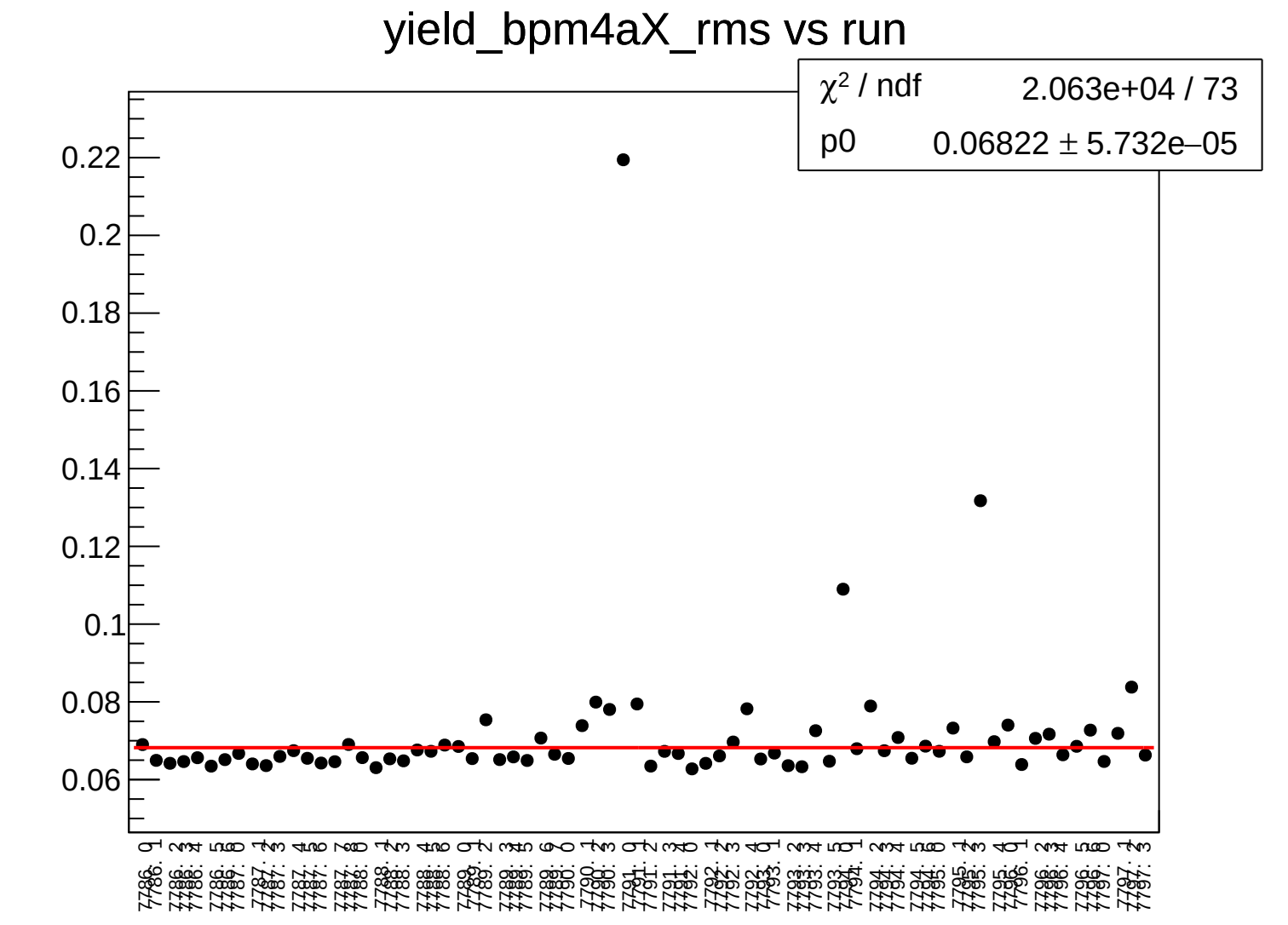

yield_cav4dY_mean vs run
χ² / ndf 1.947e+05 / 73
p0 −30.09 ± 0.000359
−29
−29.2
−29.4
−29.6
−29.8
−30
−30.2
−30.4
pull
Entries 74
Mean 606.9
Std Dev 571.7
100
50
0
−50
−100

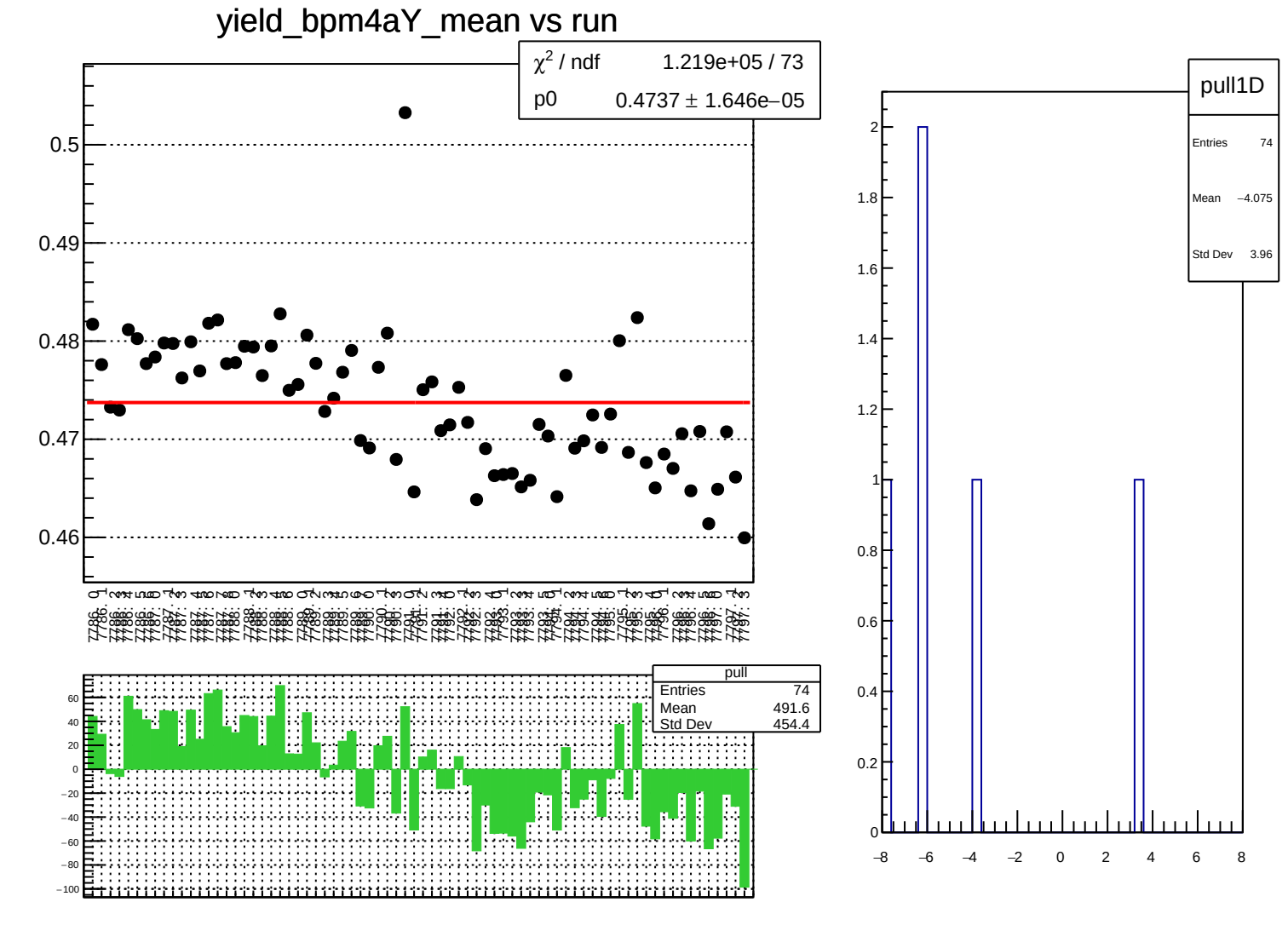

pull1D
Entries 74
Mean −0.7288
Std Dev 2.584
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

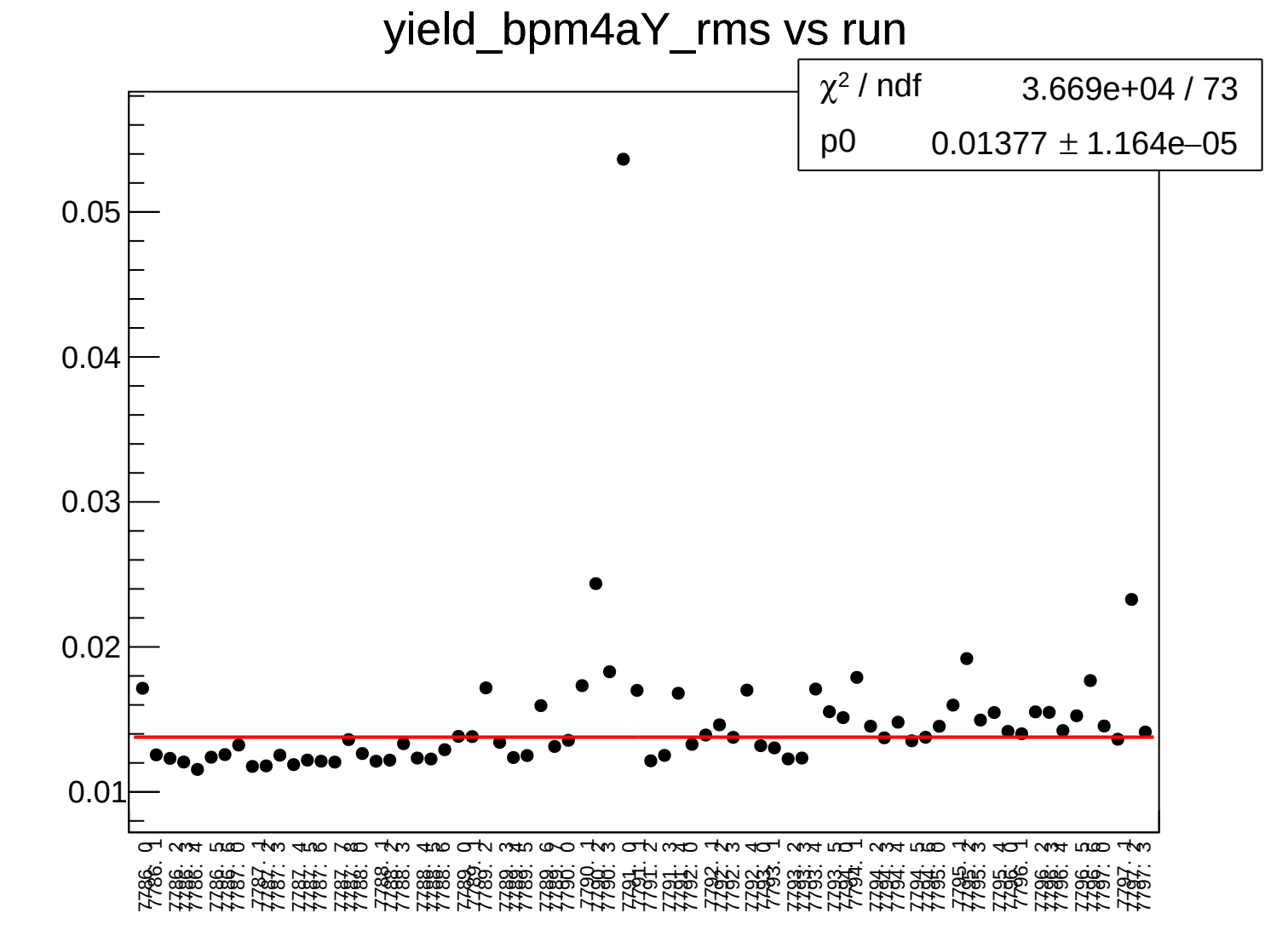

yield_cav4dY_rms vs run
χ² / ndf 4.915e+04 / 73
p0 0.2991 ± 0.0002538
1.4
1.2
1
0.8
0.6
0.4
0.2

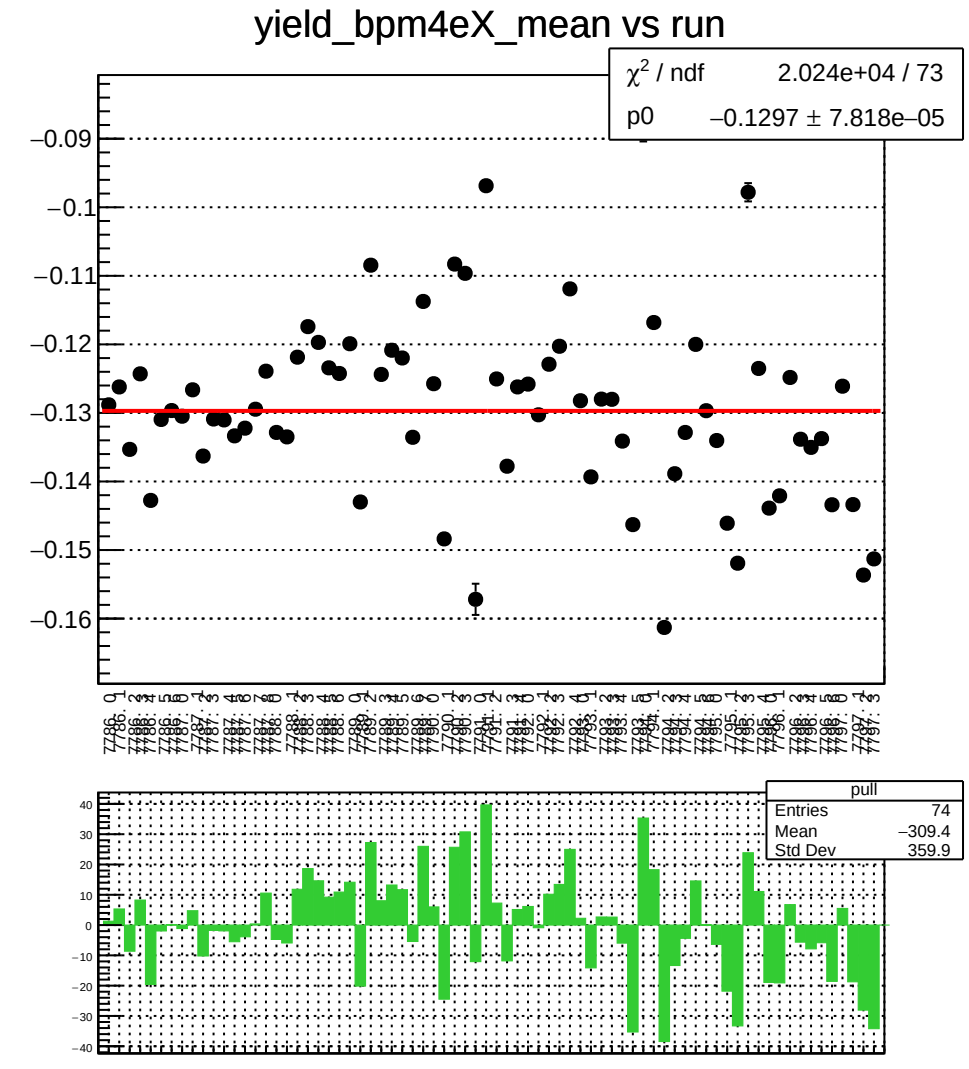

yield_bpm4aX_mean vs run
χ² / ndf 1.961e+04 / 73
p0 −0.5684 ± 8.106e−05
pull
Entries 74
Mean −440.7
Std Dev 490.6

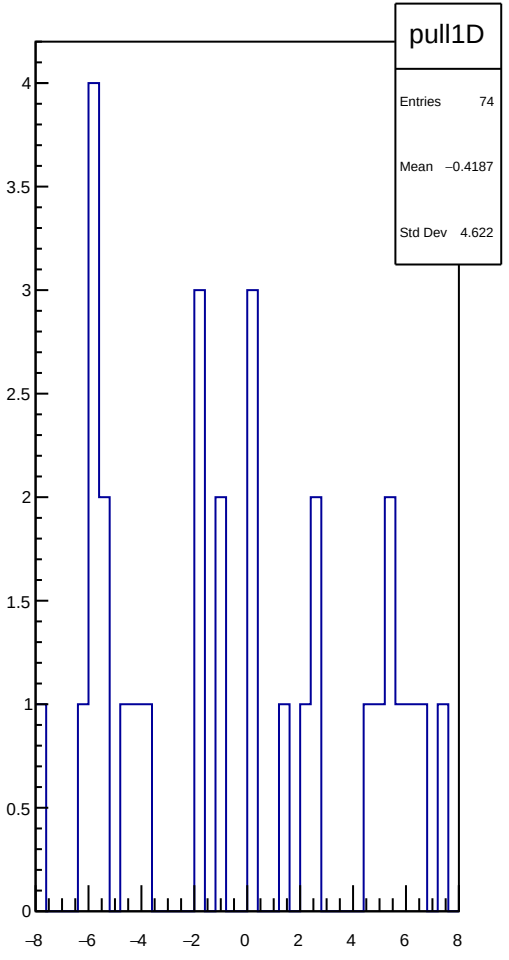

pull1D
Entries 74
Mean −0.2931
Std Dev 4.621

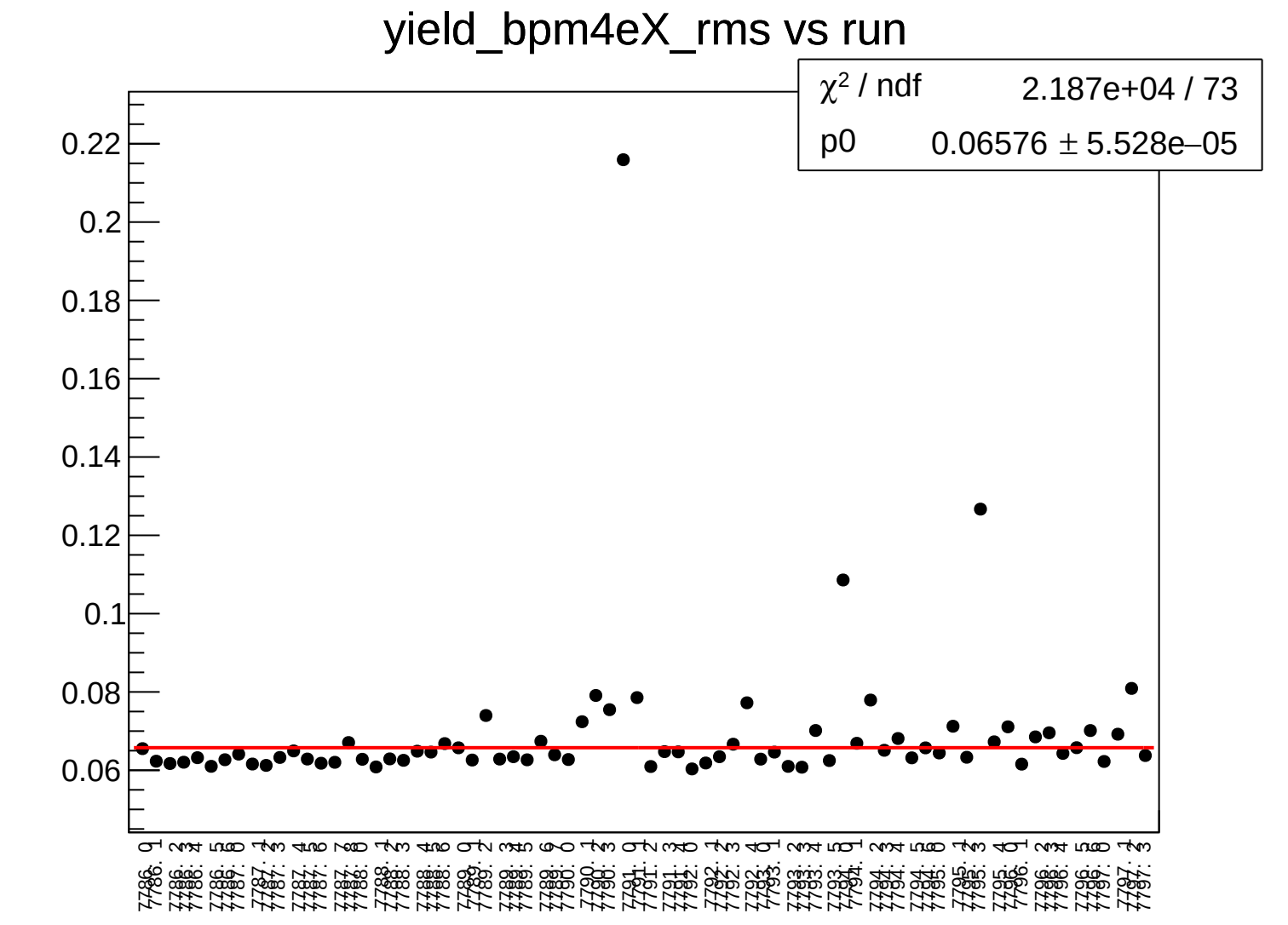

yield_bpm4aX_rms vs run
χ² / ndf 2.063e+04 / 73
p0 0.06822 ± 5.732e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

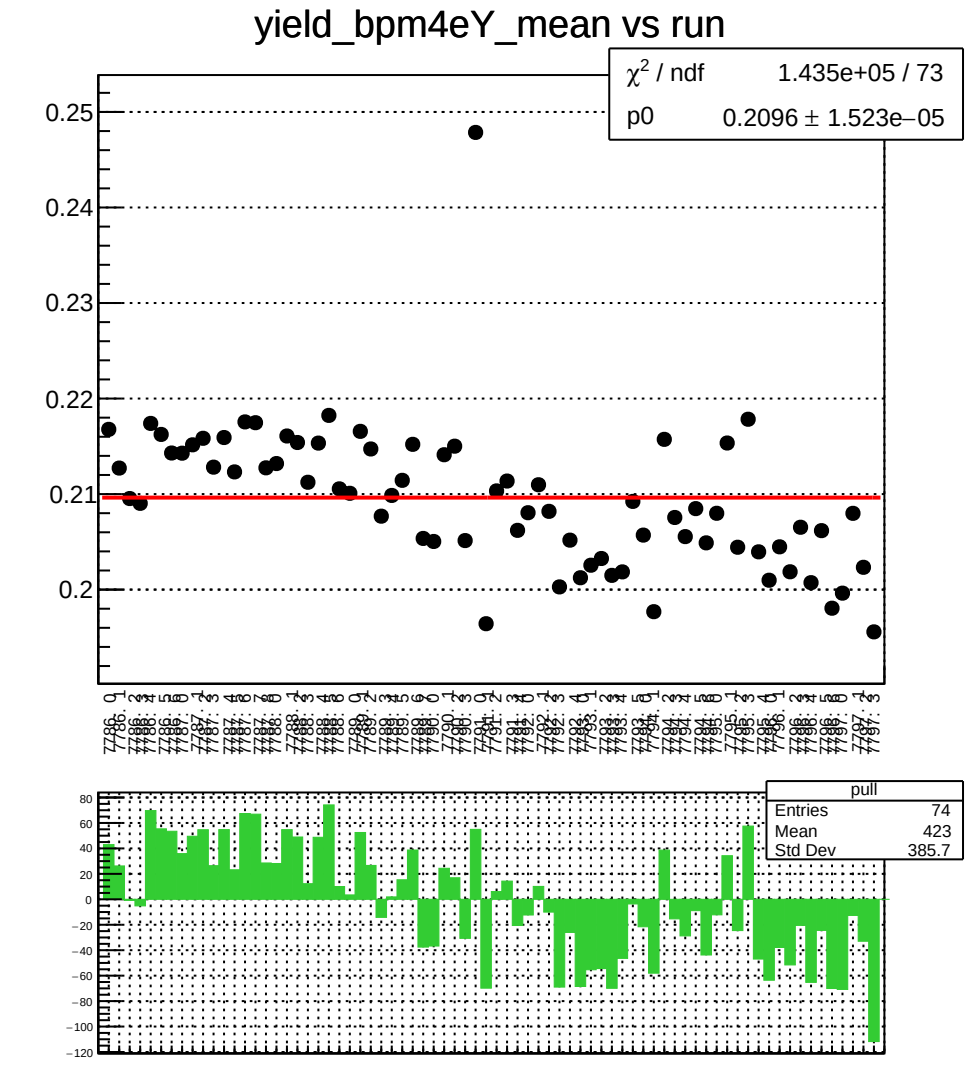

yield_bpm4aY_mean vs run
χ² / ndf 1.219e+05 / 73
p0 0.4737 ± 1.646e−05
0.5
0.49
0.48
0.47
0.46
pull
Entries 74
Mean 491.6
Std Dev 454.4
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 74
Mean −4.075
Std Dev 3.96
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

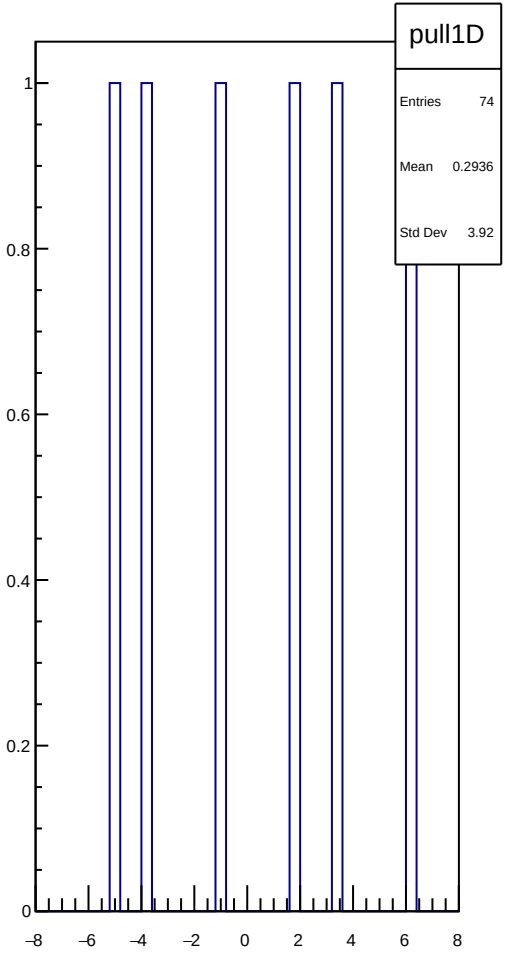

yield_bpm4aY_rms vs run
χ² / ndf 3.669e+04 / 73
p0 0.01377 ± 1.164e–05
0.05
0.04
0.03
0.02
0.01

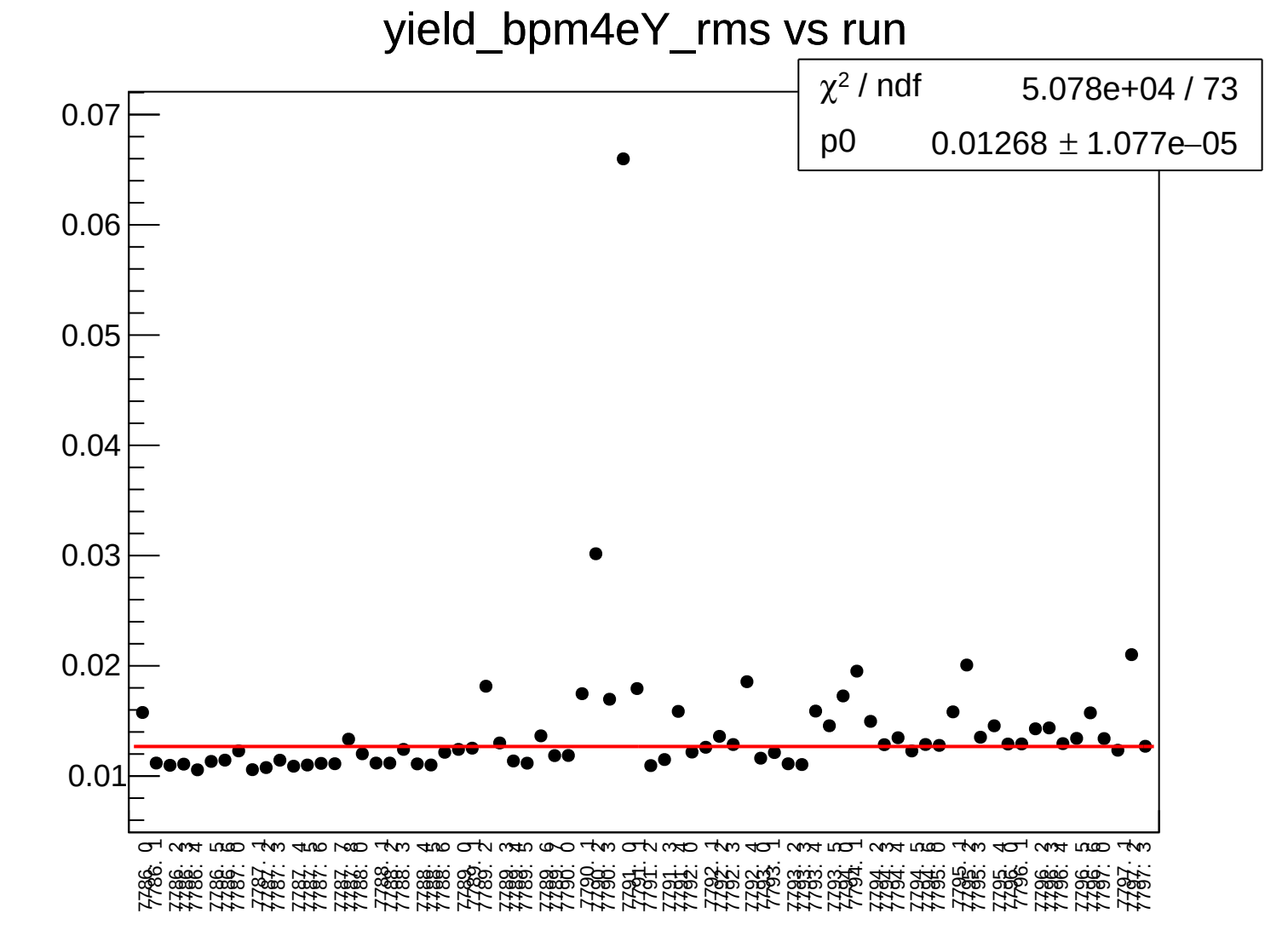

yield_bpm4eX_mean vs run
χ² / ndf 2.024e+04 / 73
p0 −0.1297 ± 7.818e−05
pull
Entries 74
Mean −309.4
Std Dev 359.9

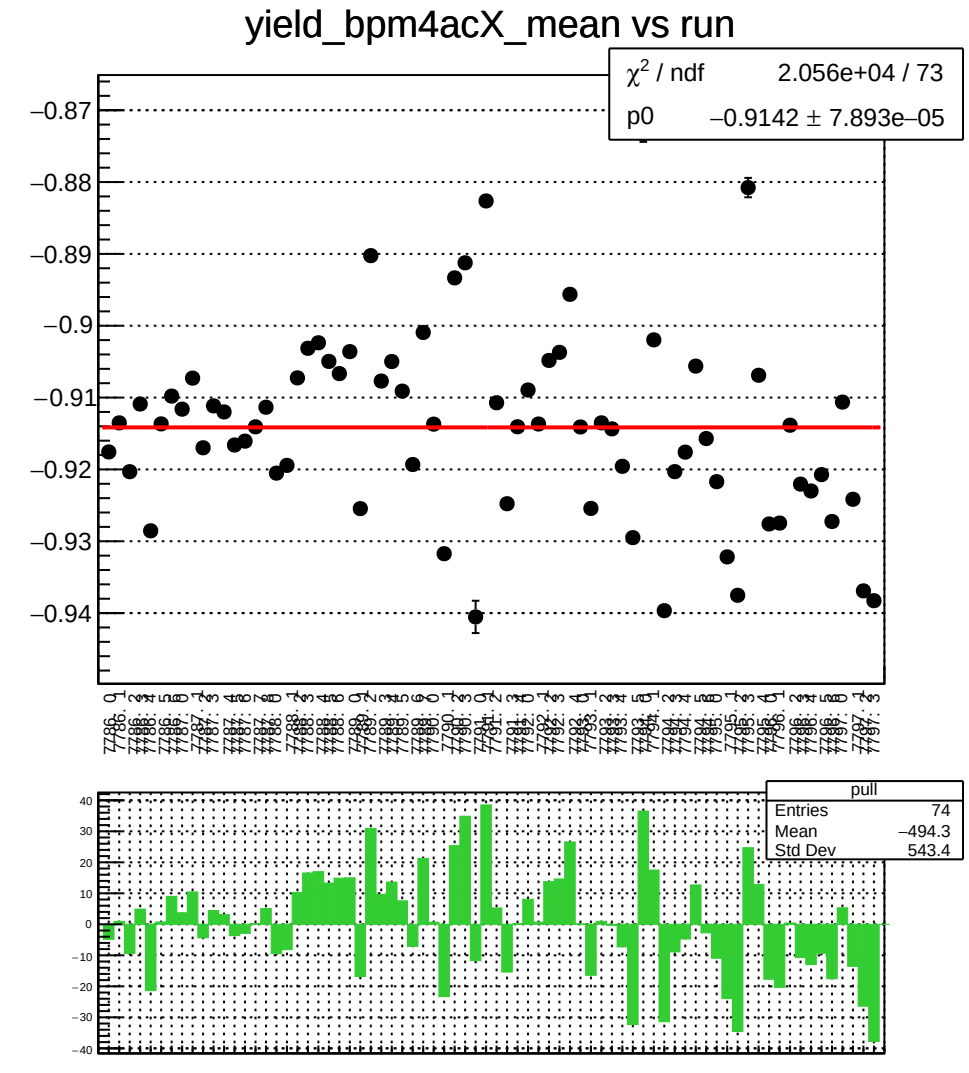

pull1D
Entries 74
Mean −0.4187
Std Dev 4.622

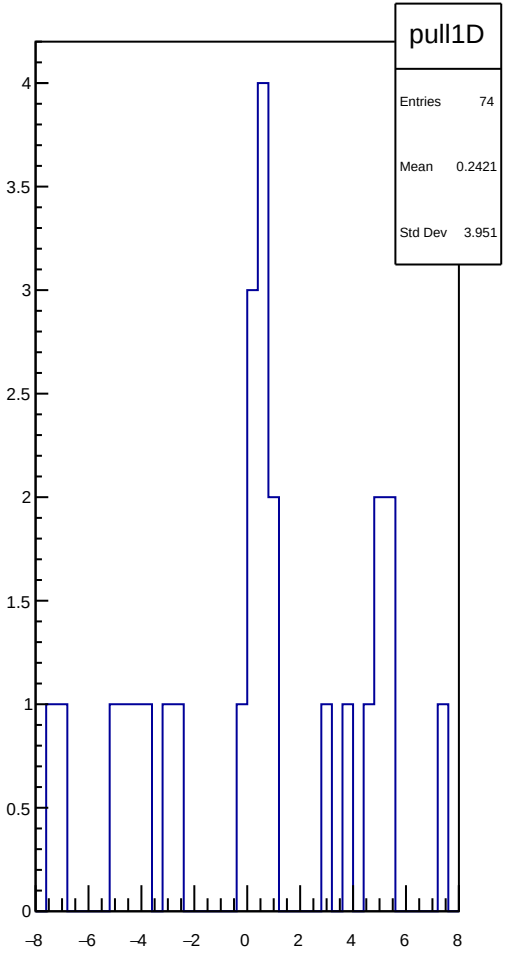

yield_bpm4eX_rms vs run
χ² / ndf 2.187e+04 / 73
p0 0.06576 ± 5.528e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

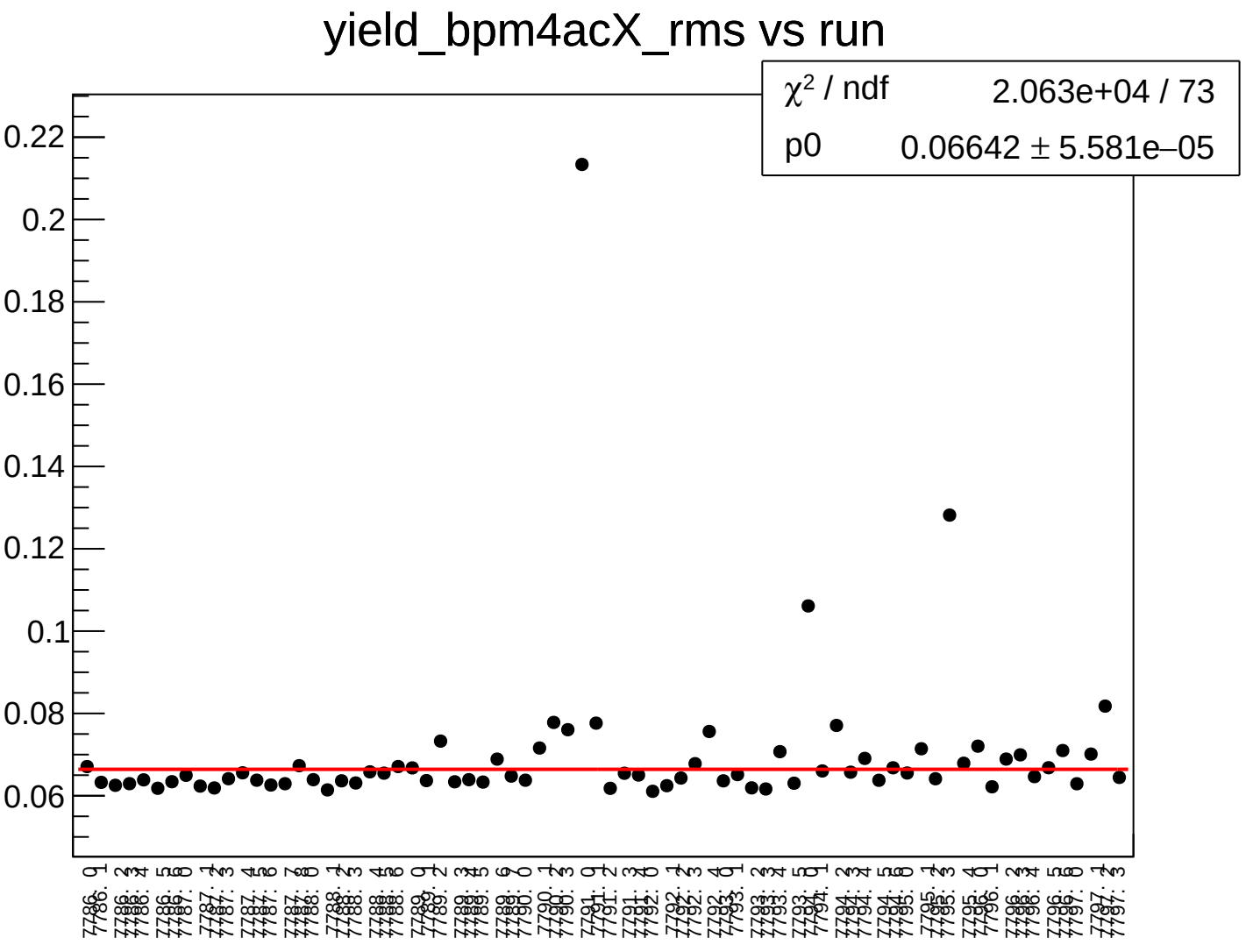

yield_bpm4eY_mean vs run
χ² / ndf 1.435e+05 / 73
p0 0.2096 ± 1.523e−05
0.25
0.24
0.23
0.22
0.21
0.2
pull
Entries 74
Mean 423
Std Dev 385.7
80
60
40
20
0
−20
−40
−60
−80
−100
−120

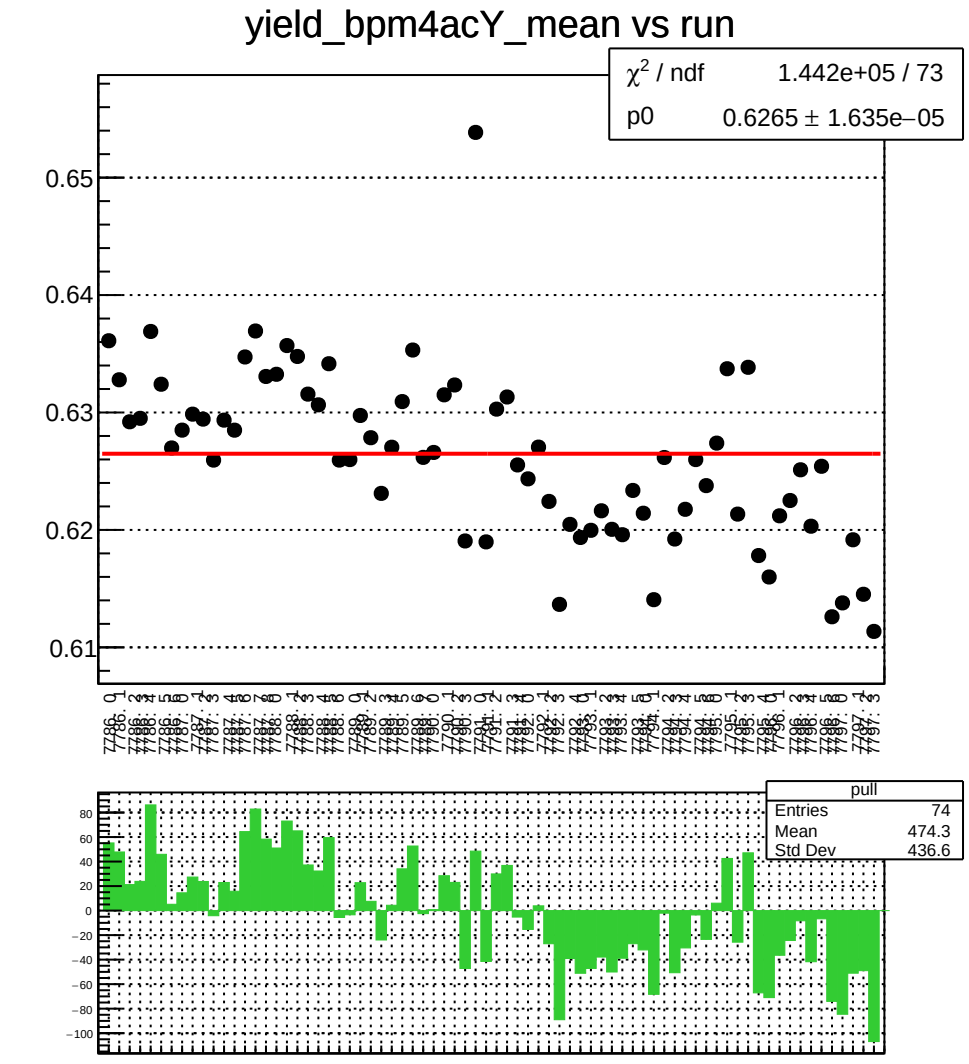

pull1D
Entries 74
Mean 0.2936
Std Dev 3.92
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

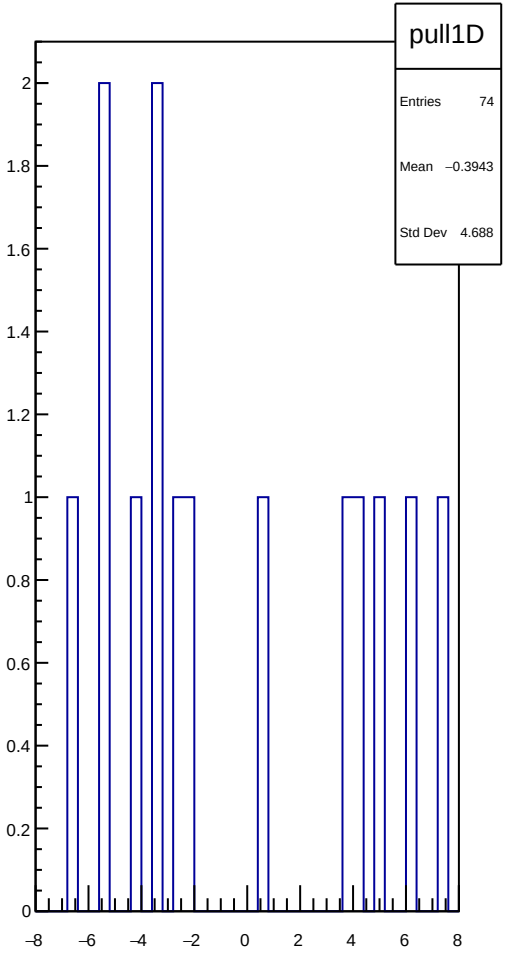

yield_bpm4eY_rms vs run
χ² / ndf 5.078e+04 / 73
p0 0.01268 ± 1.077e–05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

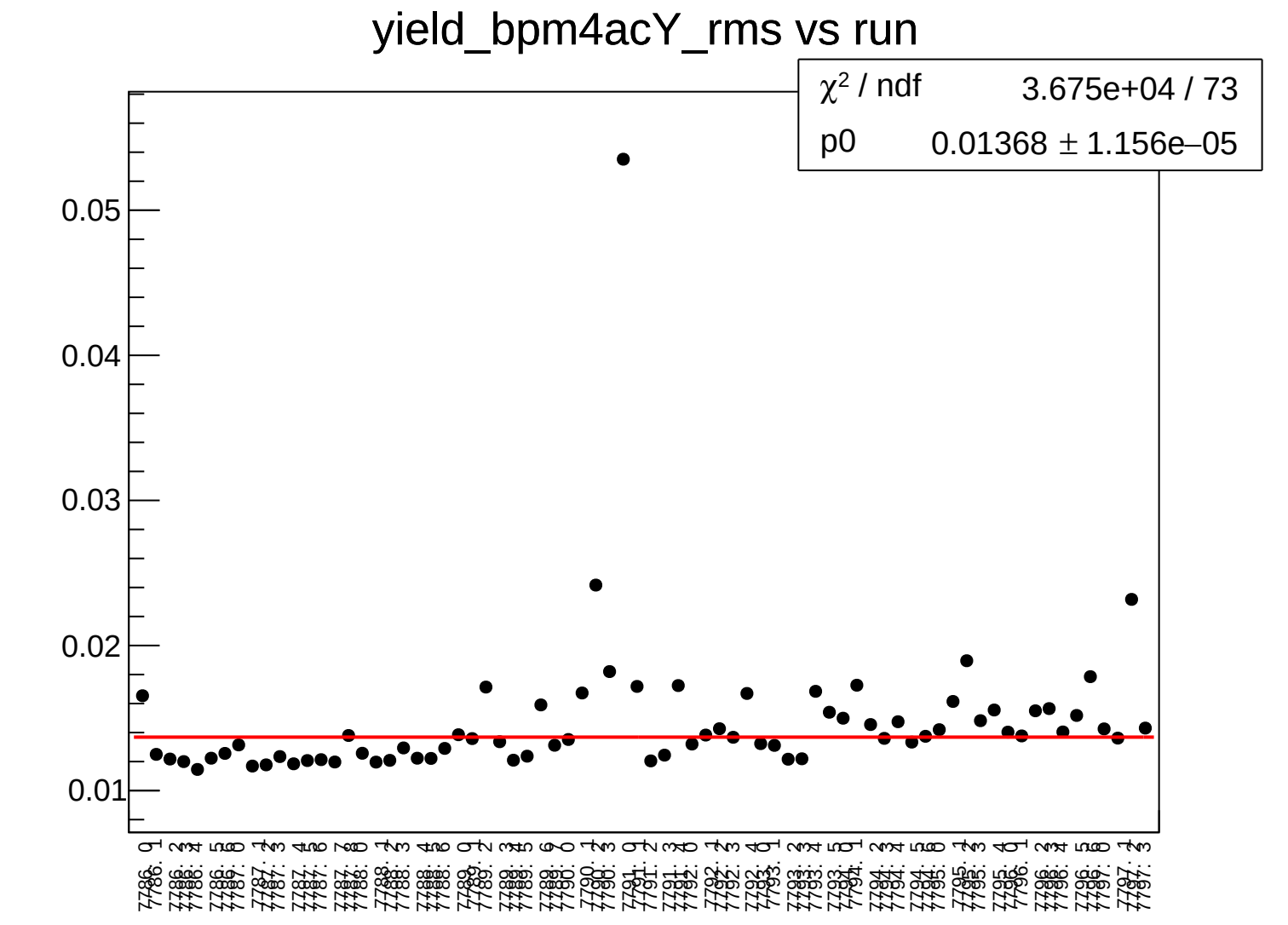

yield_bpm4acX_mean vs run
χ² / ndf 2.056e+04 / 73
p0 −0.9142 ± 7.893e−05
−0.87
−0.88
−0.89
−0.9
−0.91
−0.92
−0.93
−0.94
pull
Entries 74
Mean −494.3
Std Dev 543.4
40
30
20
10
0
−10
−20
−30
−40

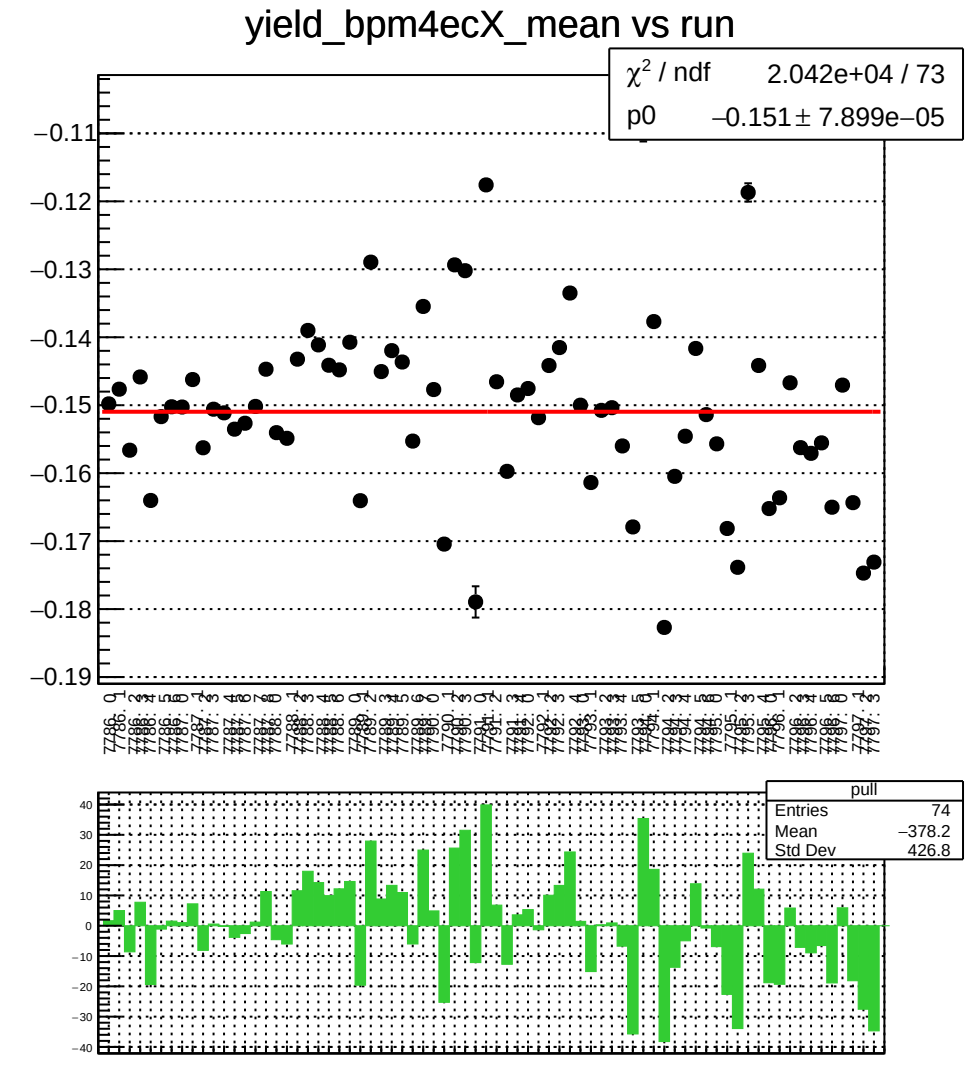

pull1D
Entries 74
Mean 0.2421
Std Dev 3.951
4
3.5
3
2.5
2
1.5
1
0.5
0
−8
−6
−4
−2
0
2
4
6
8

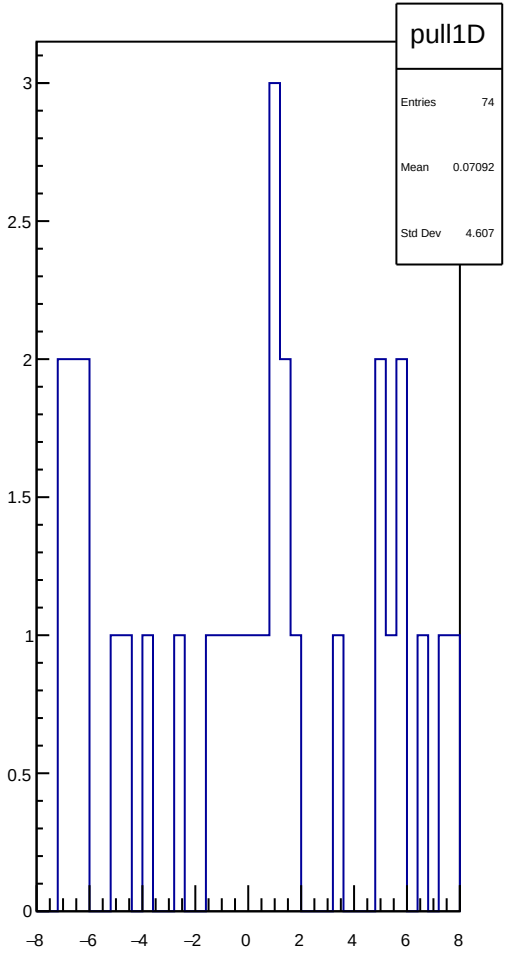

yield_bpm4acX_rms vs run
χ² / ndf 2.063e+04 / 73
p0 0.06642 ± 5.581e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

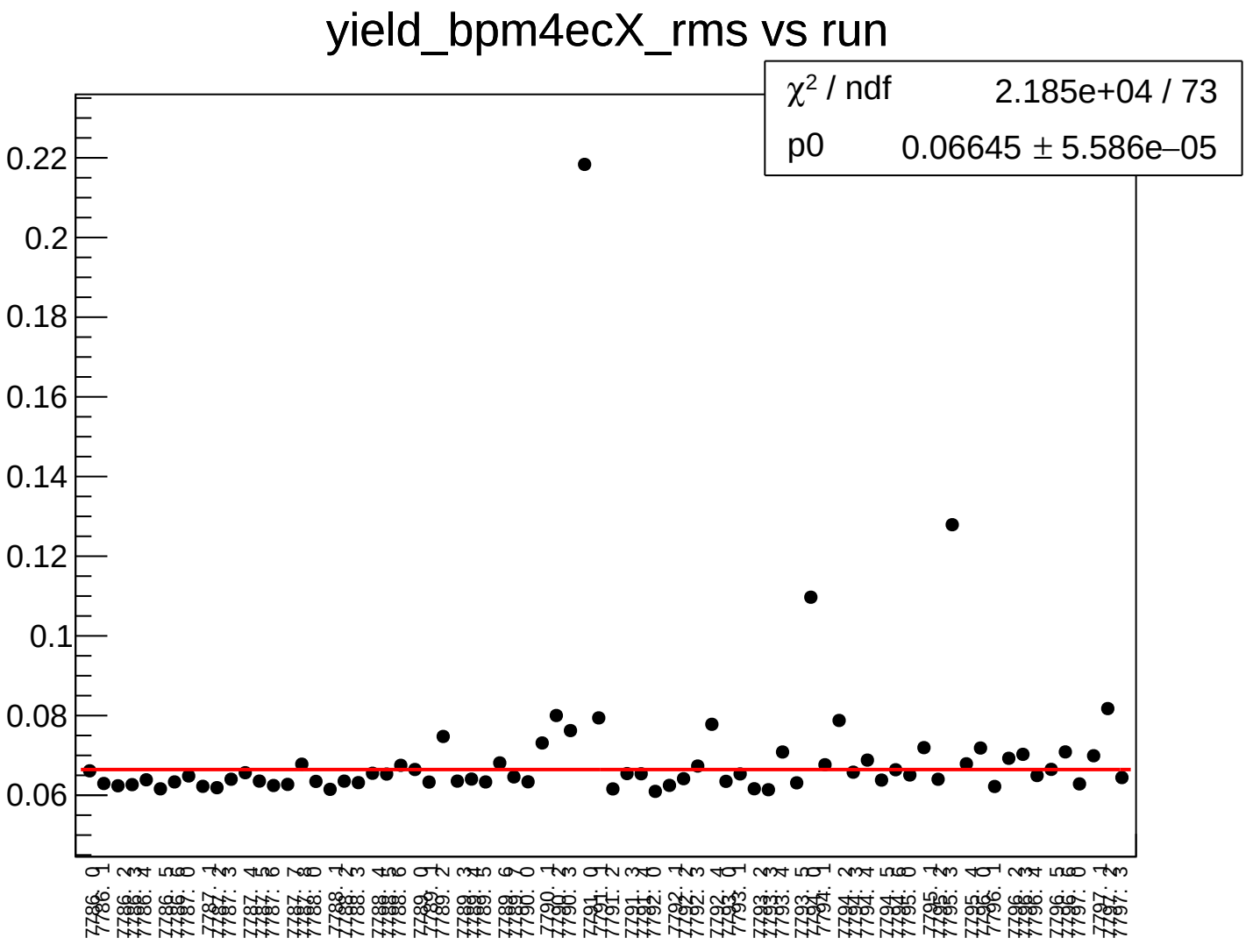

yield_bpm4acY_mean vs run
χ² / ndf 1.442e+05 / 73
p0 0.6265 ± 1.635e−05
0.65
0.64
0.63
0.62
0.61
pull
Entries 74
Mean 474.3
Std Dev 436.6
80
60
40
20
0
−20
−40
−60
−80
−100

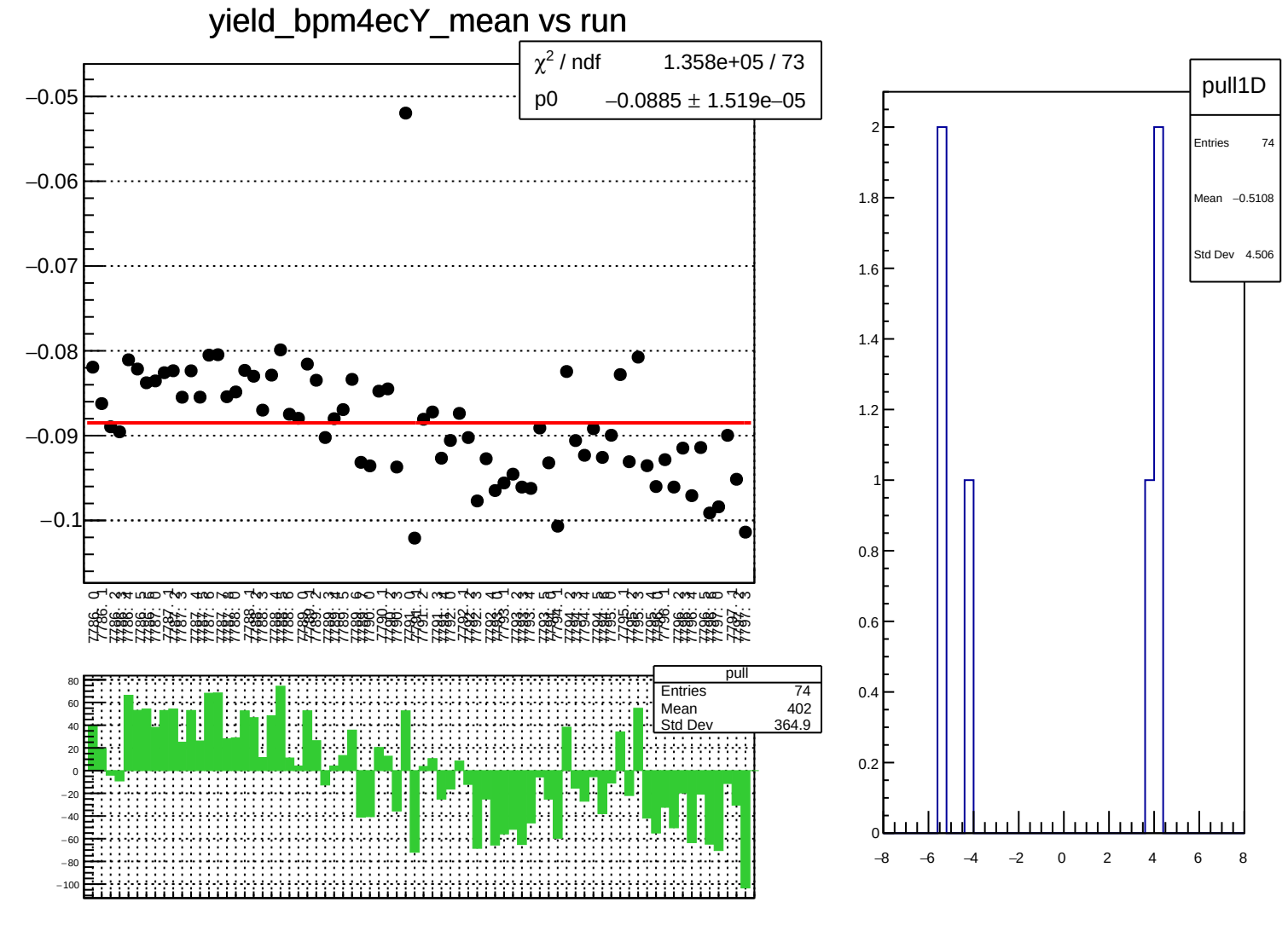

pull1D
Entries 74
Mean −0.3943
Std Dev 4.688
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

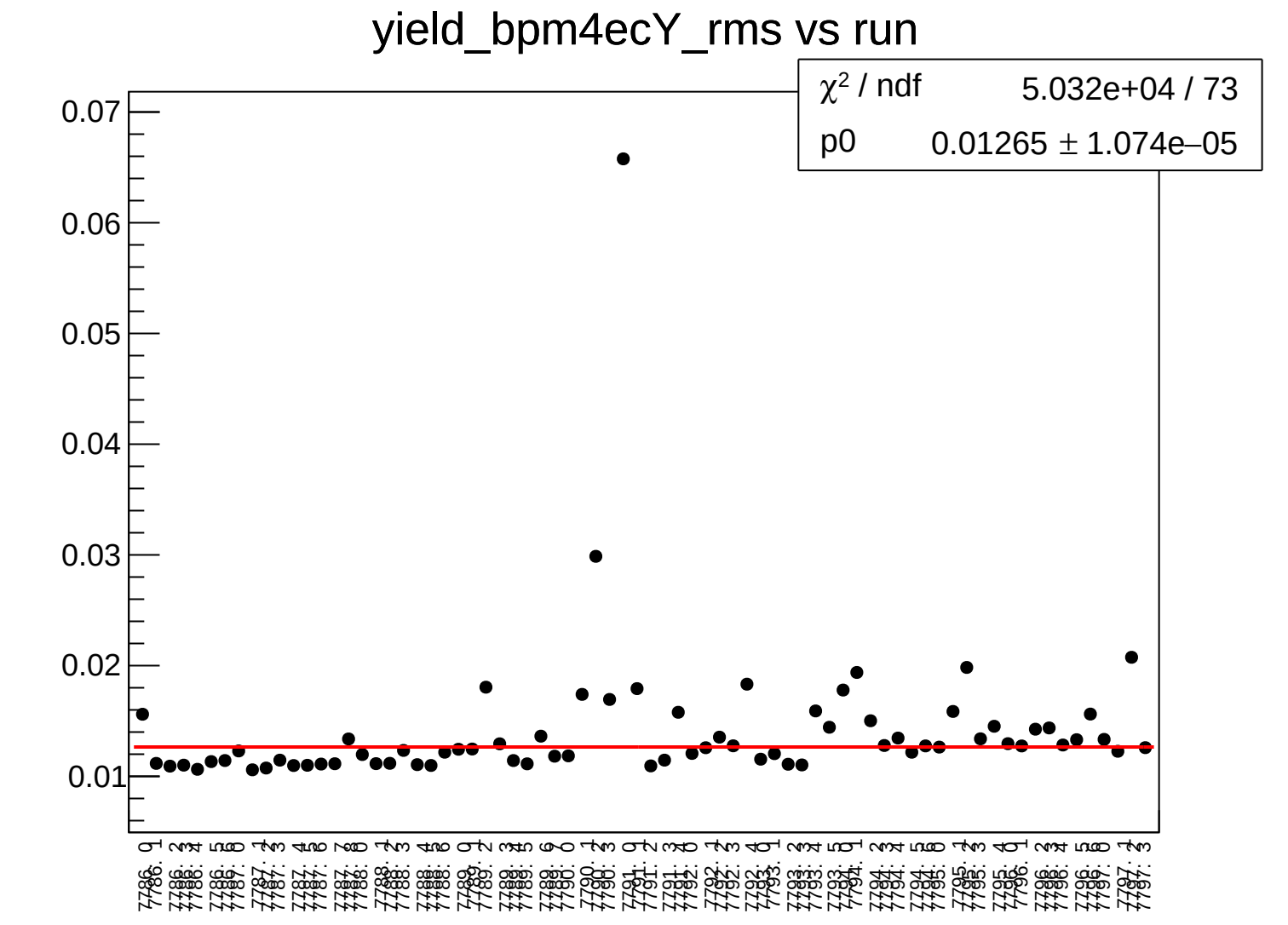

yield_bpm4acY_rms vs run
χ² / ndf 3.675e+04 / 73
p0 0.01368 ± 1.156e–05
0.05
0.04
0.03
0.02
0.01

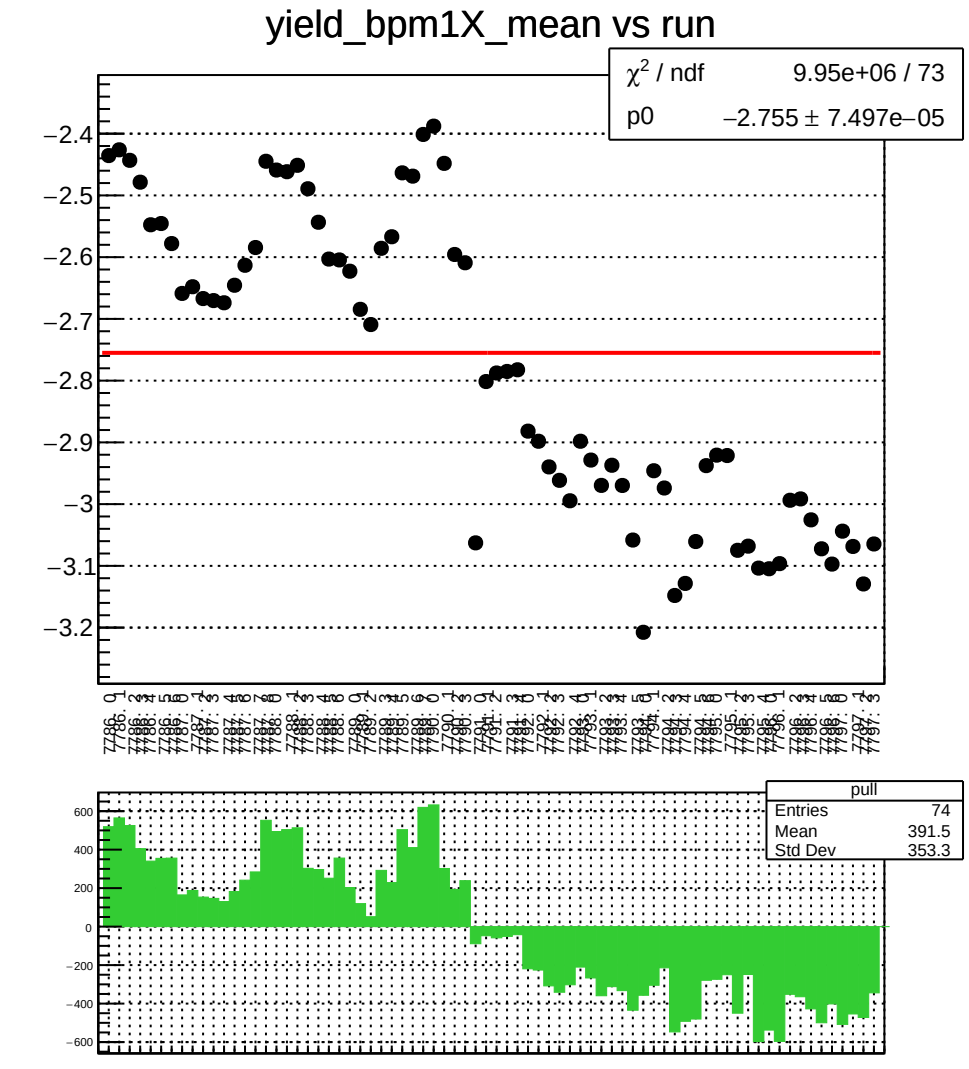

yield_bpm4ecX_mean vs run
χ² / ndf 2.042e+04 / 73
p0 −0.151 ± 7.899e−05
pull
Entries 74
Mean −378.2
Std Dev 426.8

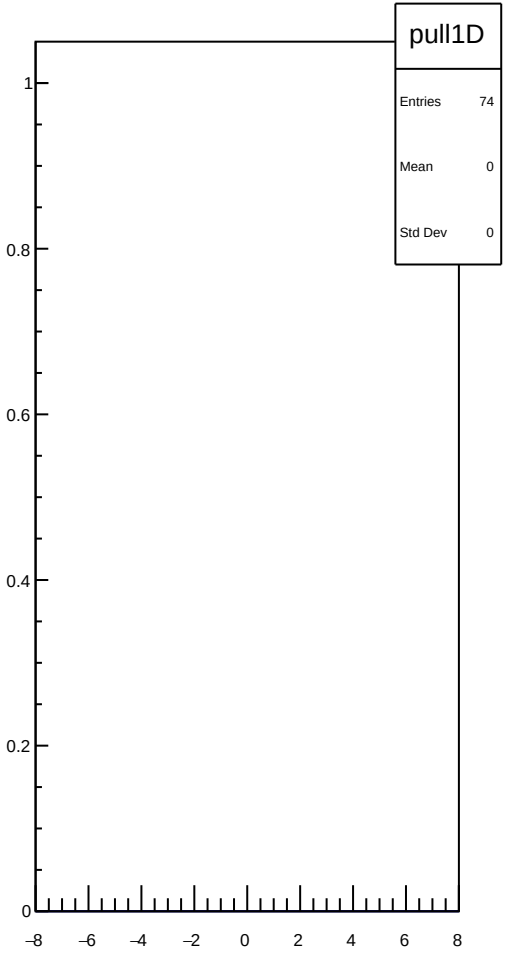

pull1D
Entries 74
Mean 0.07092
Std Dev 4.607

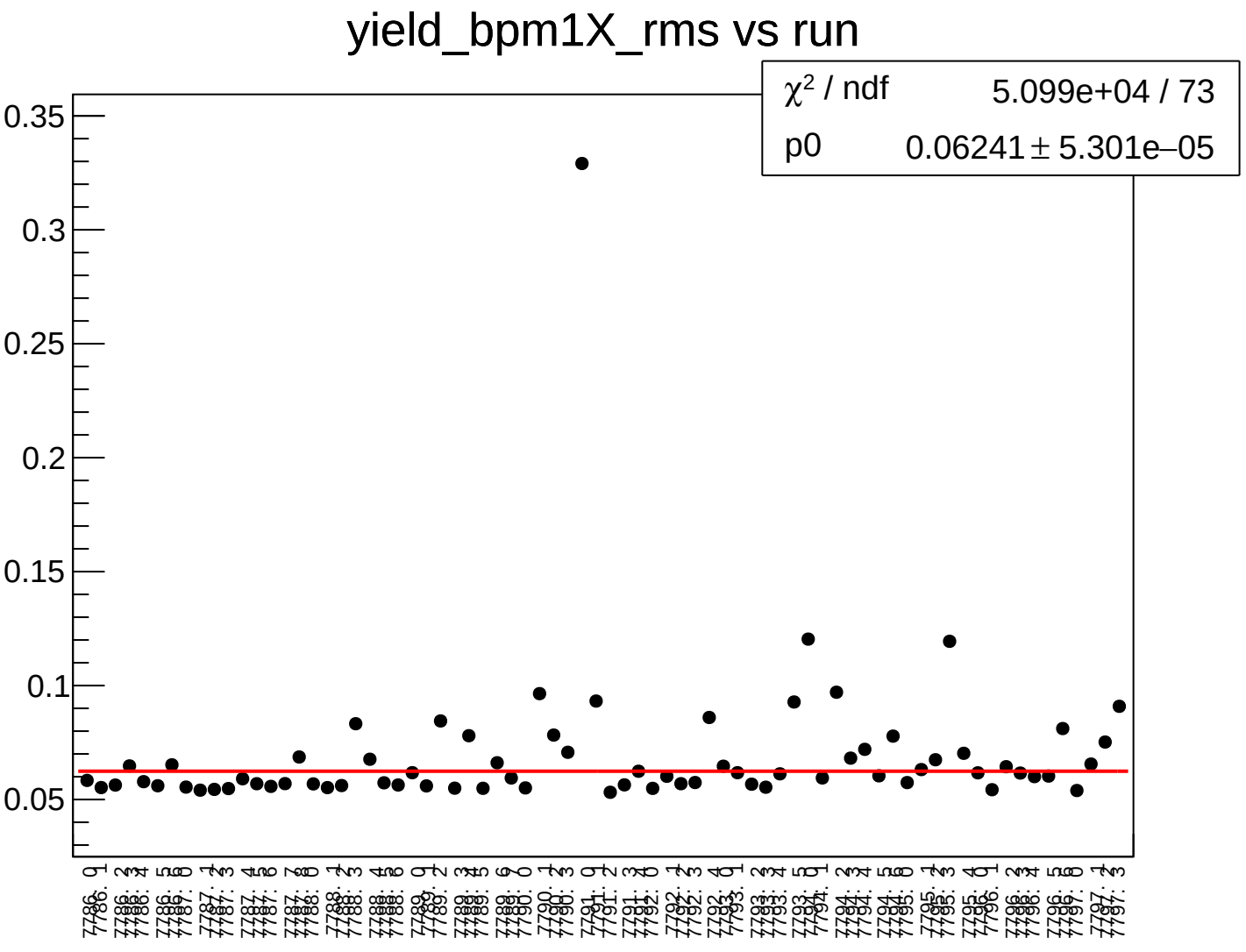

yield_bpm4ecX_rms vs run
χ² / ndf 2.185e+04 / 73
p0 0.06645 ± 5.586e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08
0.06

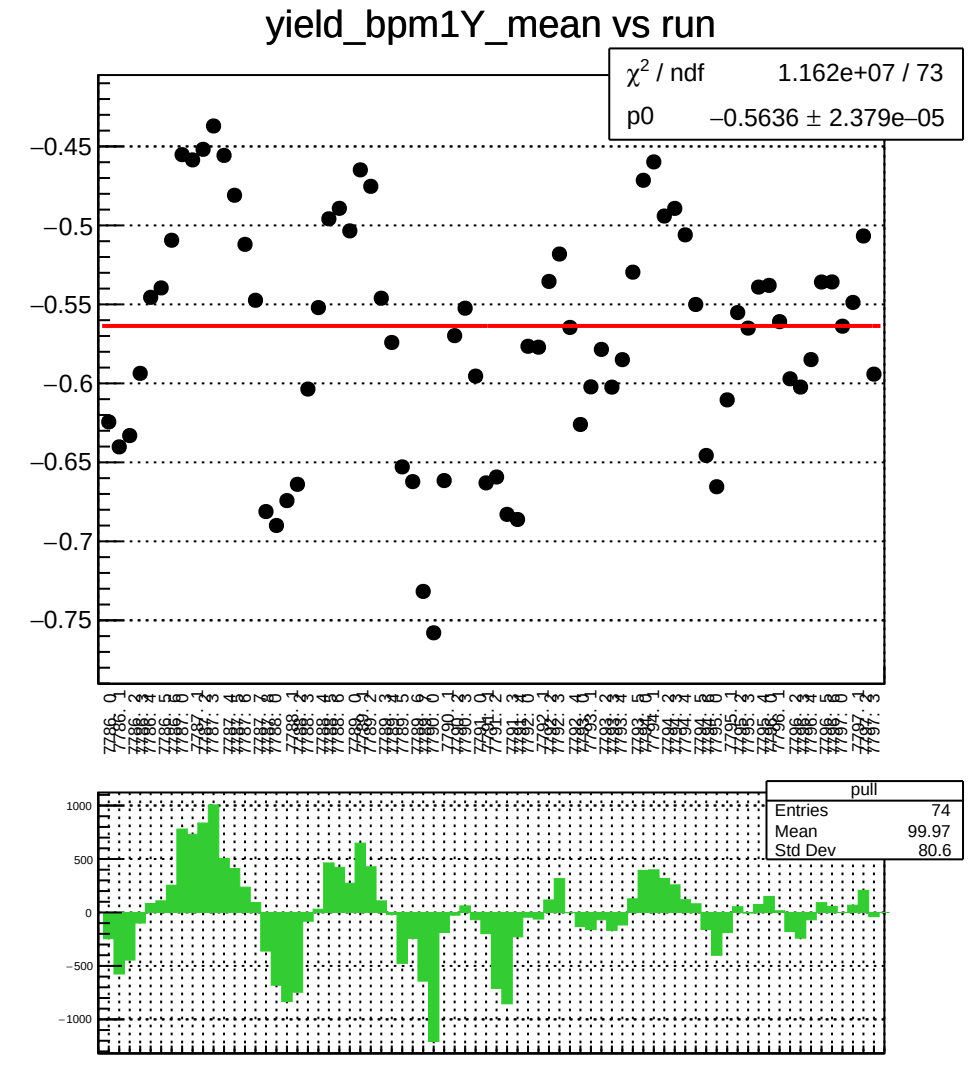

yield_bpm4ecY_mean vs run
χ² / ndf 1.358e+05 / 73
p0 −0.0885 ± 1.519e−05
−0.05
−0.06
−0.07
−0.08
−0.09
−0.1
pull
Entries 74
Mean 402
Std Dev 364.9
80
60
40
20
0
−20
−40
−60
−80
−100
pull1D
Entries 74
Mean −0.5108
Std Dev 4.506
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

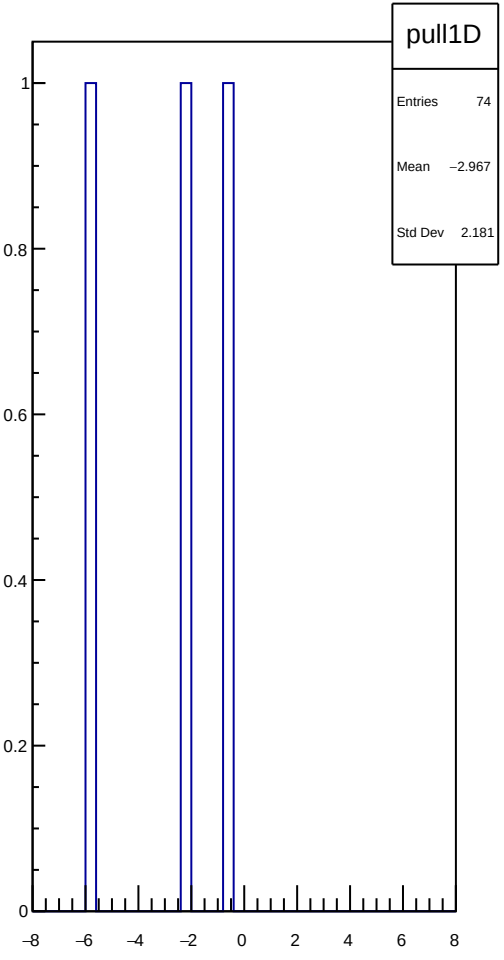

yield_bpm4ecY_rms vs run
χ² / ndf 5.032e+04 / 73
p0 0.01265 ± 1.074e−05
0.07
0.06
0.05
0.04
0.03
0.02
0.01

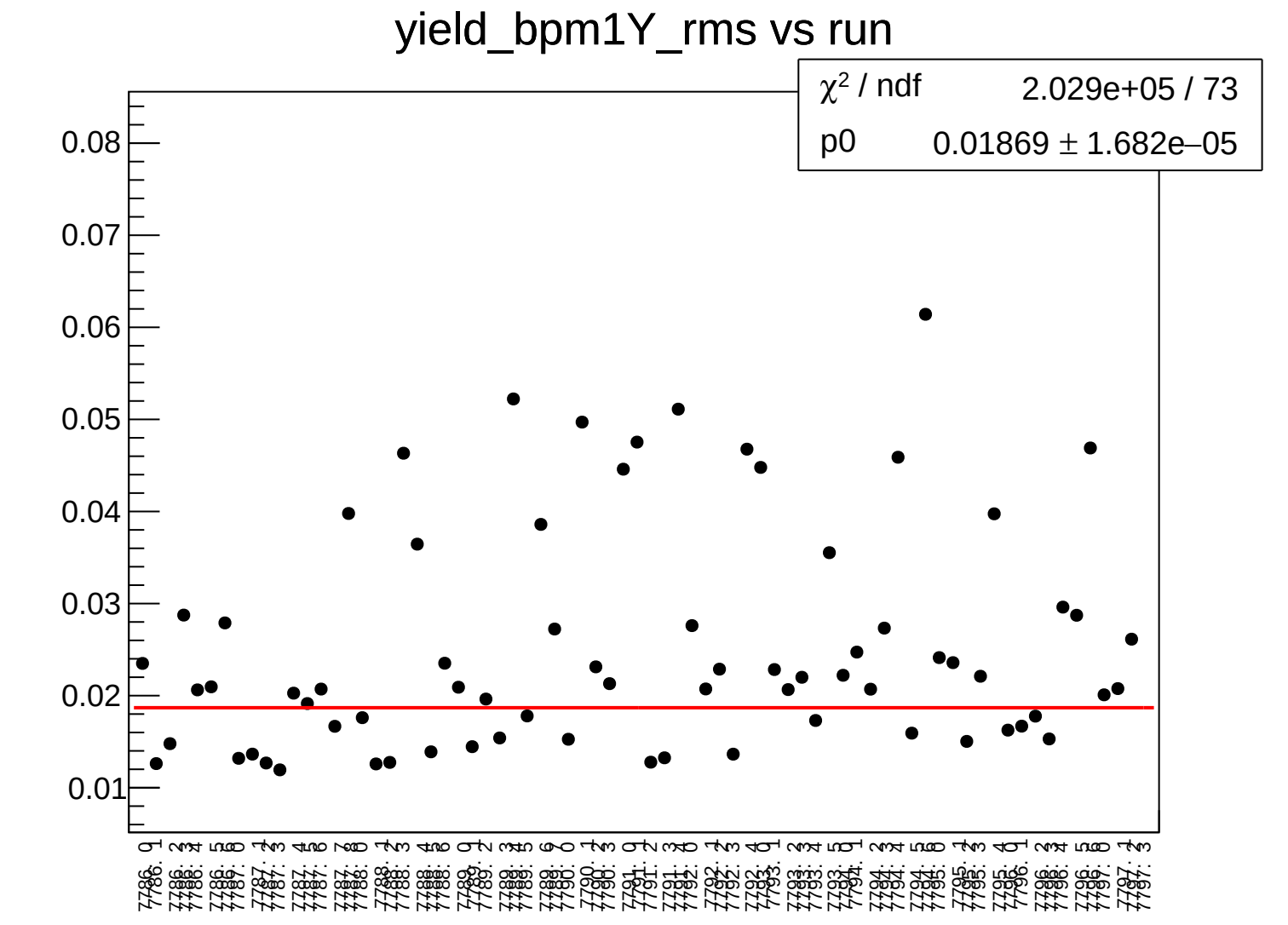

yield_bpm1X_mean vs run
χ² / ndf 9.95e+06 / 73
p0 −2.755 ± 7.497e−05
−2.4
−2.5
−2.6
−2.7
−2.8
−2.9
−3
−3.1
−3.2
pull
Entries 74
Mean 391.5
Std Dev 353.3
600
400
200
0
−200
−400
−600

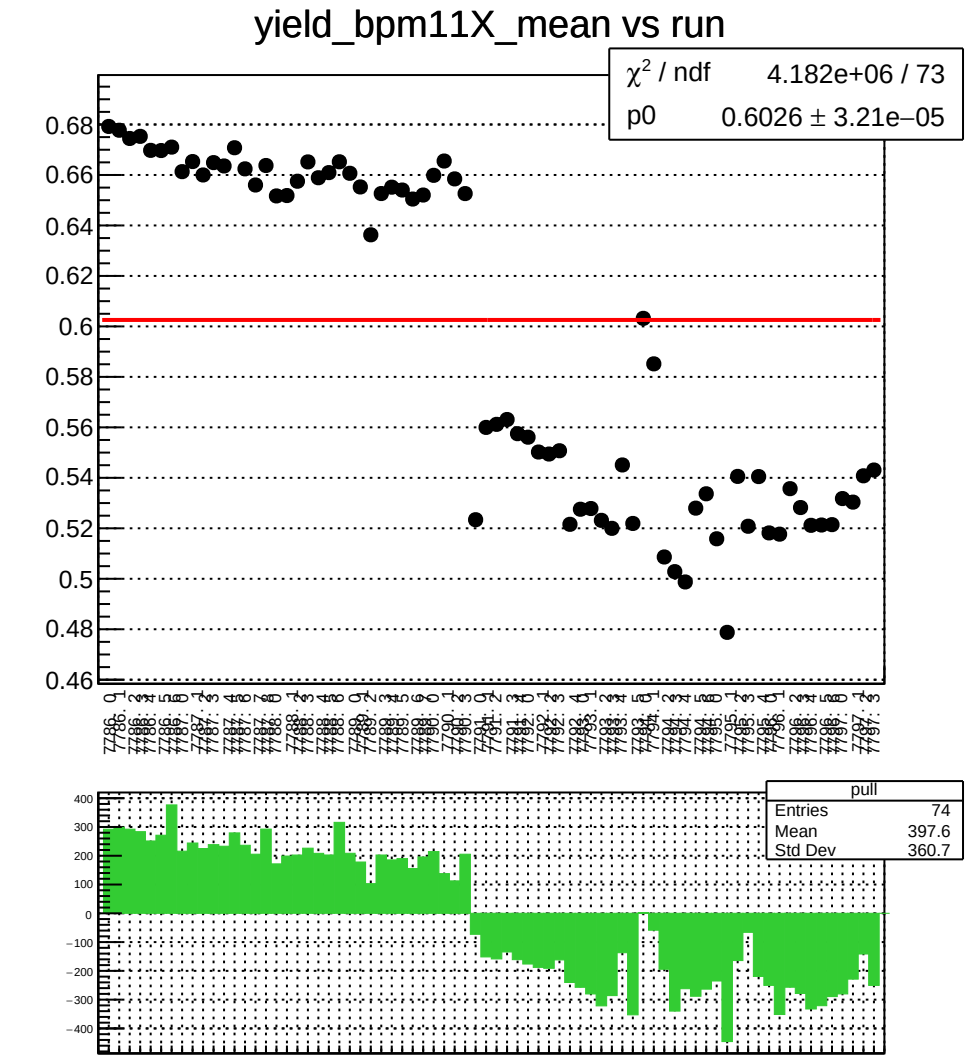

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

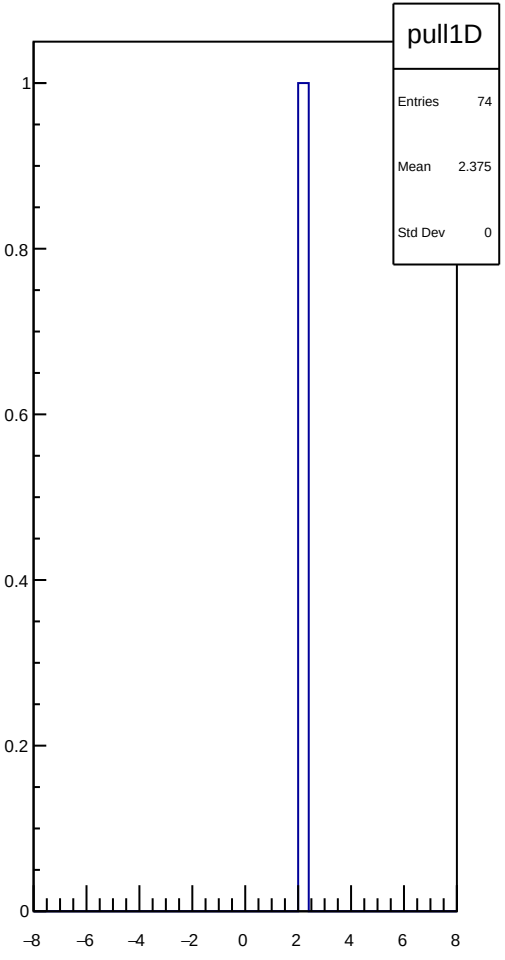

yield_bpm1X_rms vs run
χ² / ndf 5.099e+04 / 73
p0 0.06241 ± 5.301e–05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

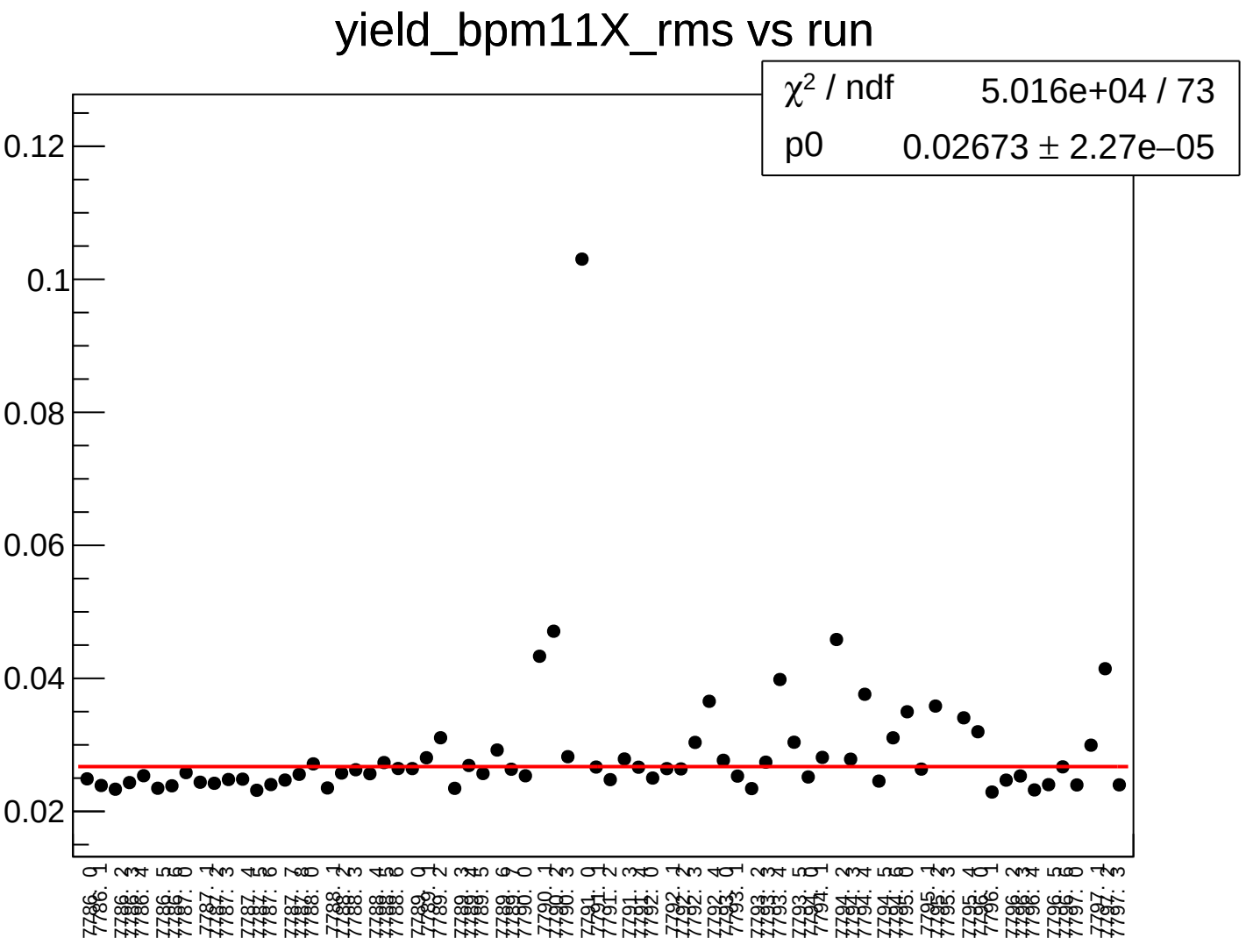

yield_bpm1Y_mean vs run
χ² / ndf 1.162e+07 / 73
p0 −0.5636 ± 2.379e−05
−0.45
−0.5
−0.55
−0.6
−0.65
−0.7
−0.75
pull
Entries 74
Mean 99.97
Std Dev 80.6
1000
500
0
−500
−1000

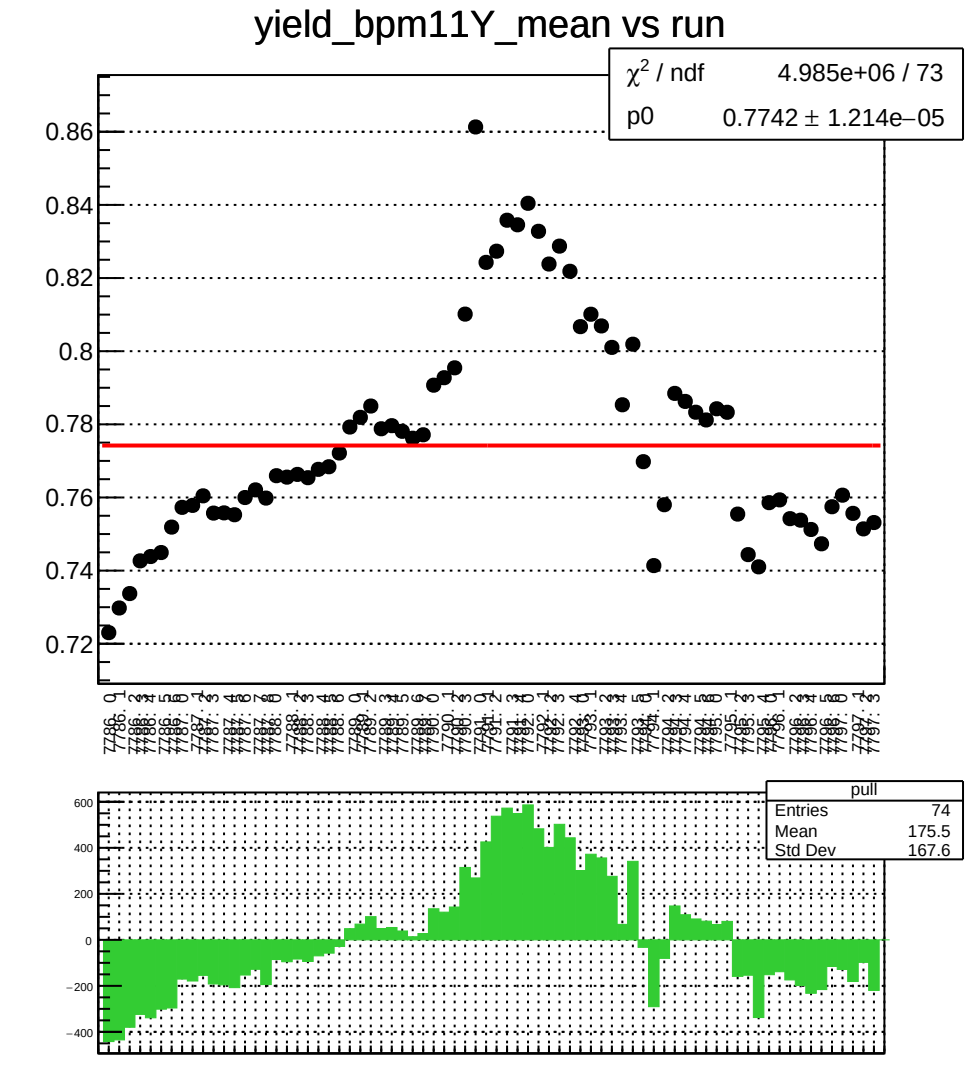

pull1D
Entries 74
Mean −2.967
Std Dev 2.181
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

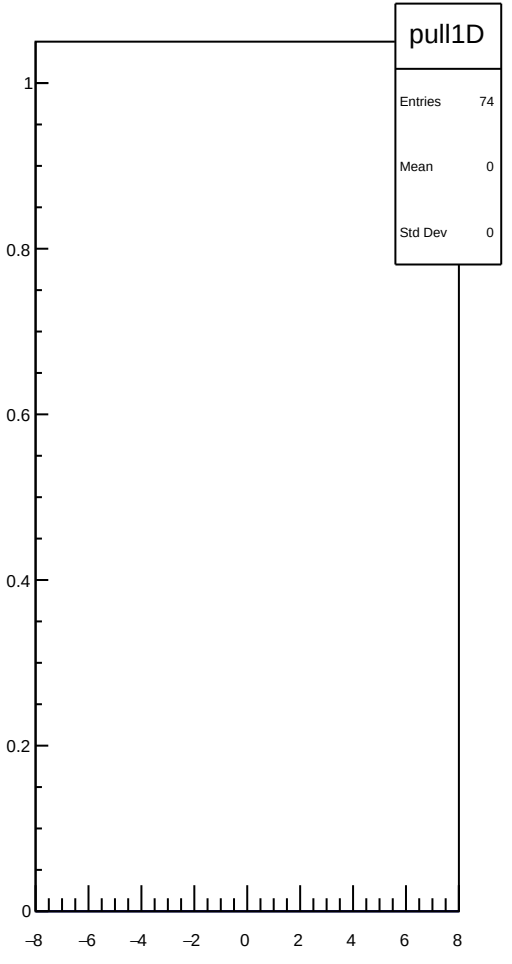

yield_bpm1Y_rms vs run
χ² / ndf 2.029e+05 / 73
p0 0.01869 ± 1.682e−05
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01

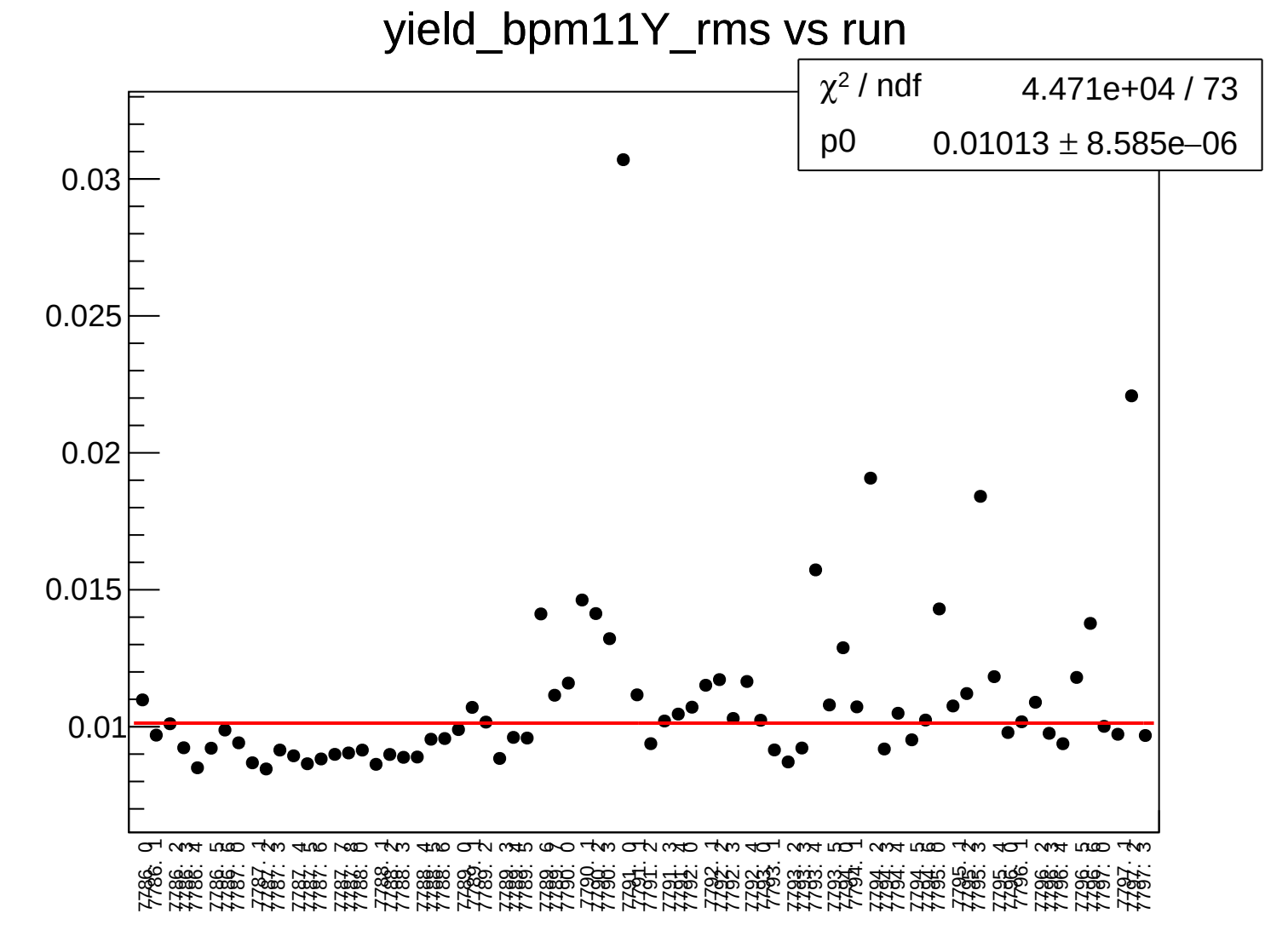

yield_bpm11X_mean vs run
χ² / ndf 4.182e+06 / 73
p0 0.6026 ± 3.21e−05
pull
Entries 74
Mean 397.6
Std Dev 360.7

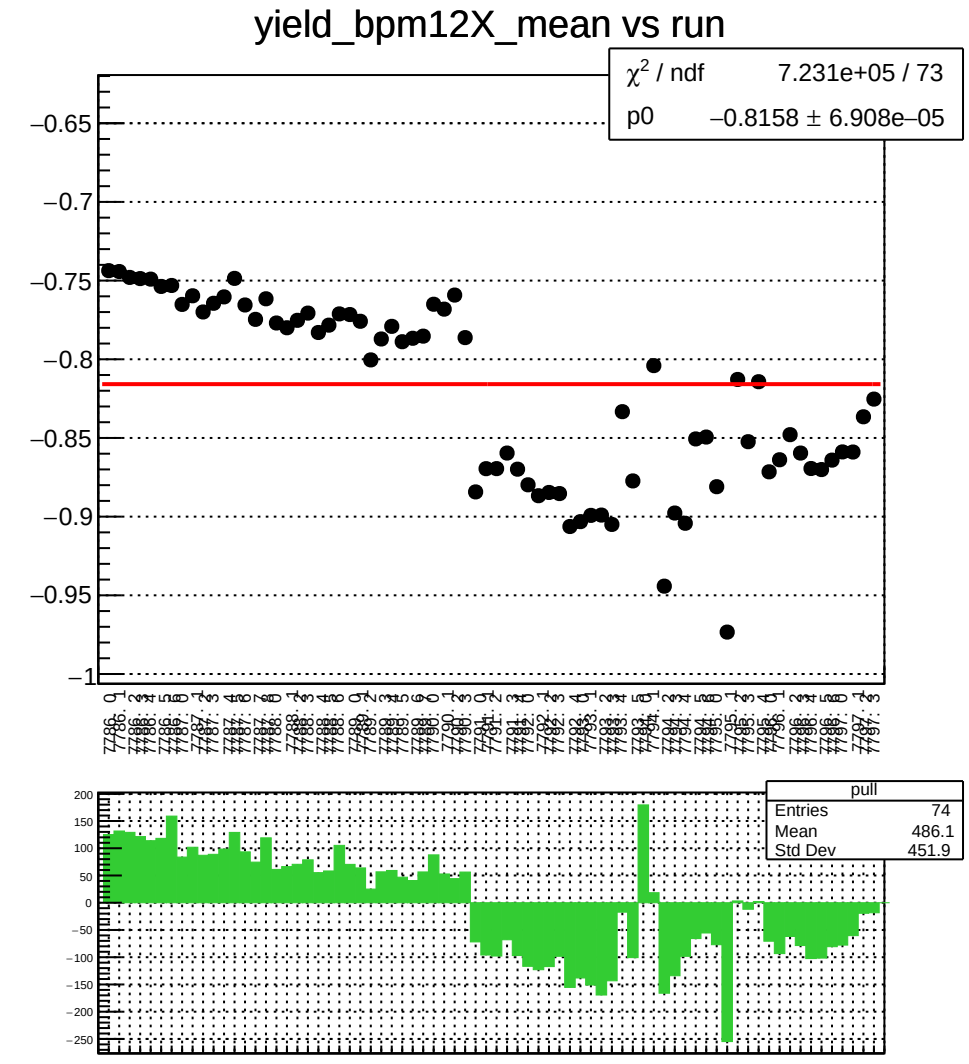

pull1D
Entries 74
Mean 2.375
Std Dev 0

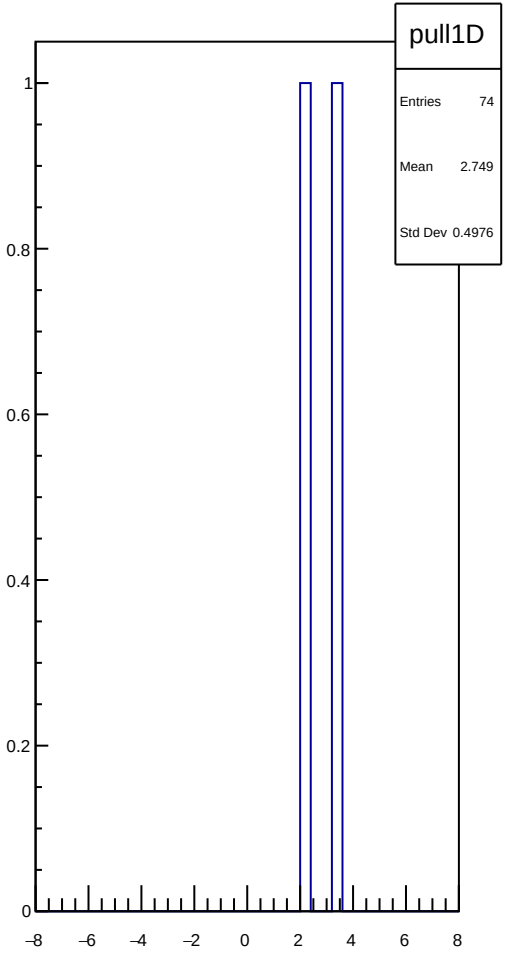

yield_bpm11X_rms vs run
χ² / ndf 5.016e+04 / 73
p0 0.02673 ± 2.27e–05
0.12
0.1
0.08
0.06
0.04
0.02

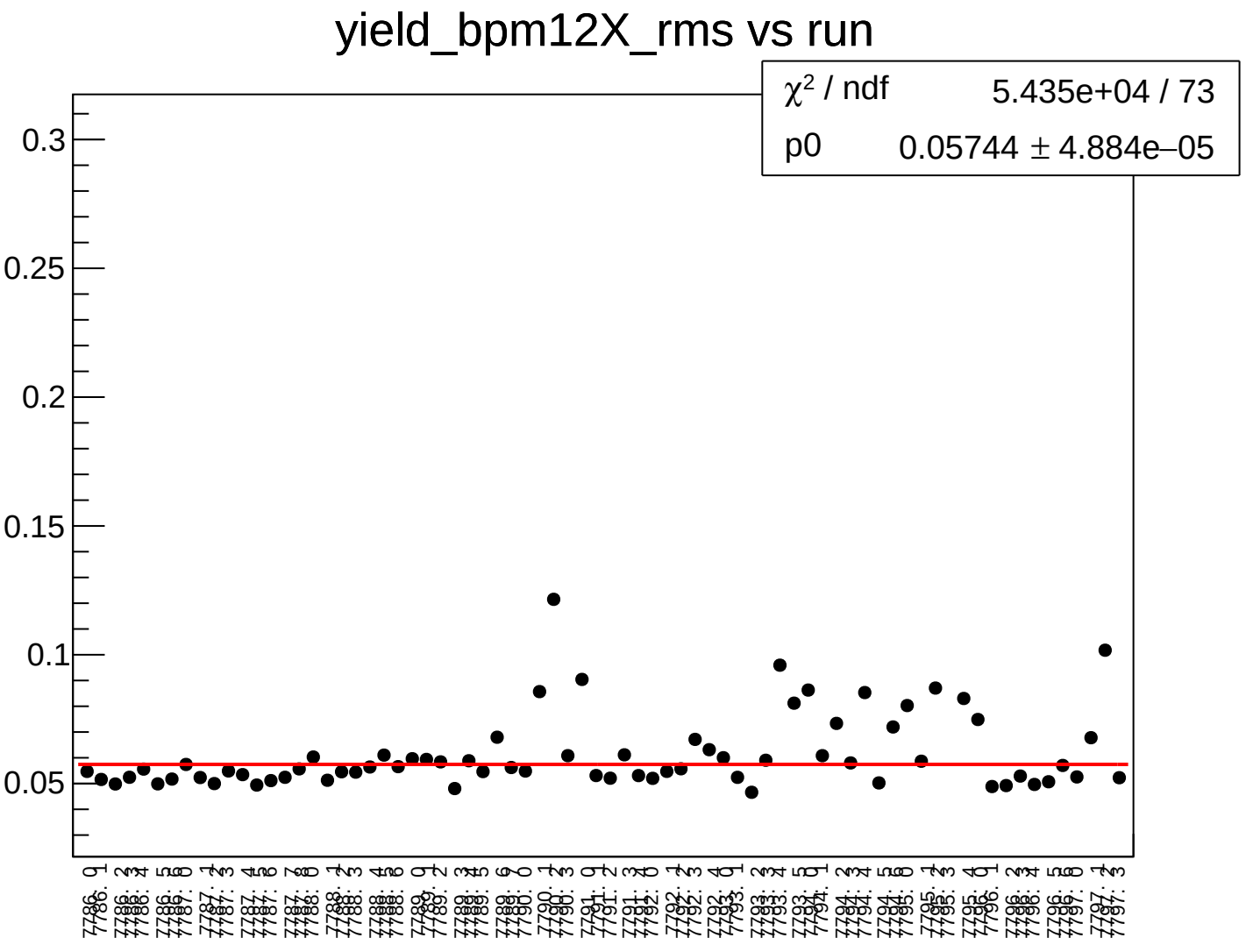

yield_bpm11Y_mean vs run
χ² / ndf 4.985e+06 / 73
p0 0.7742 ± 1.214e−05
0.86
0.84
0.82
0.8
0.78
0.76
0.74
0.72
pull
Entries 74
Mean 175.5
Std Dev 167.6
600
400
200
0
−200
−400

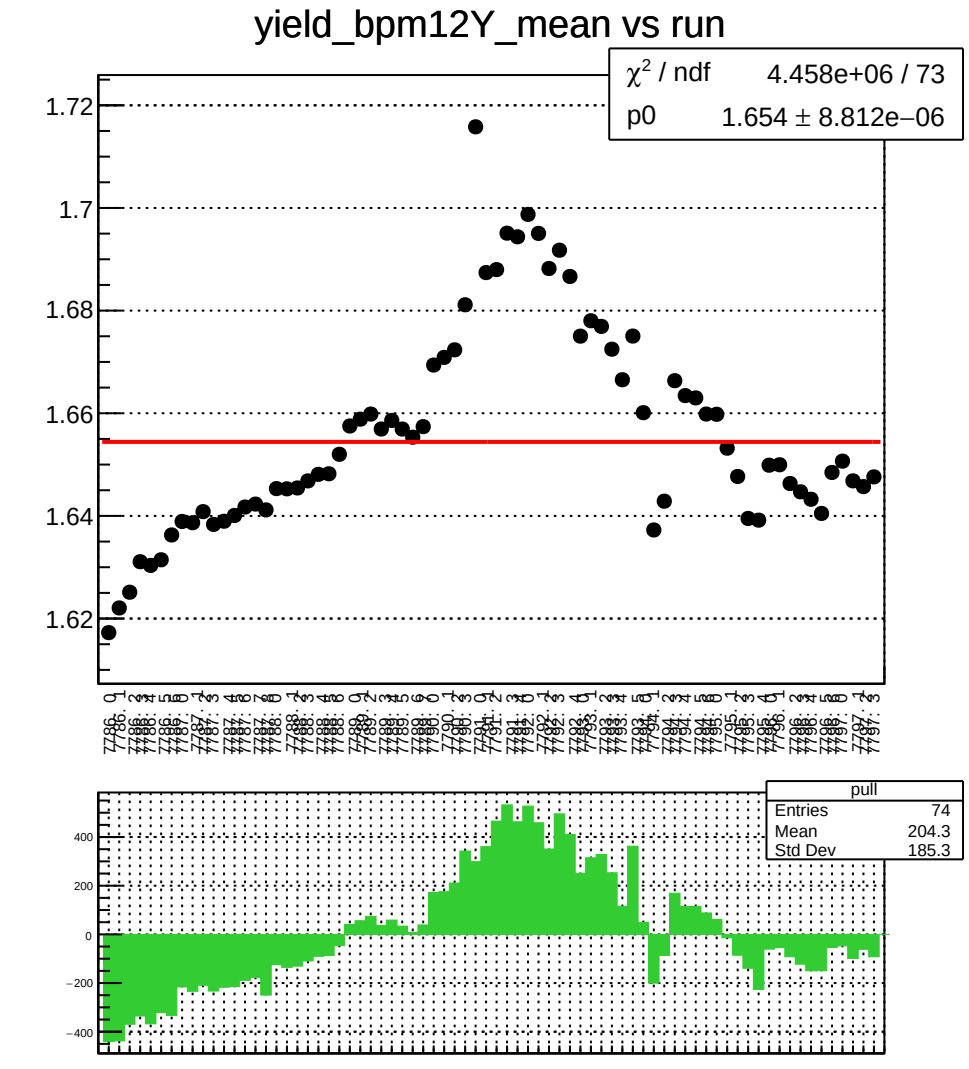

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

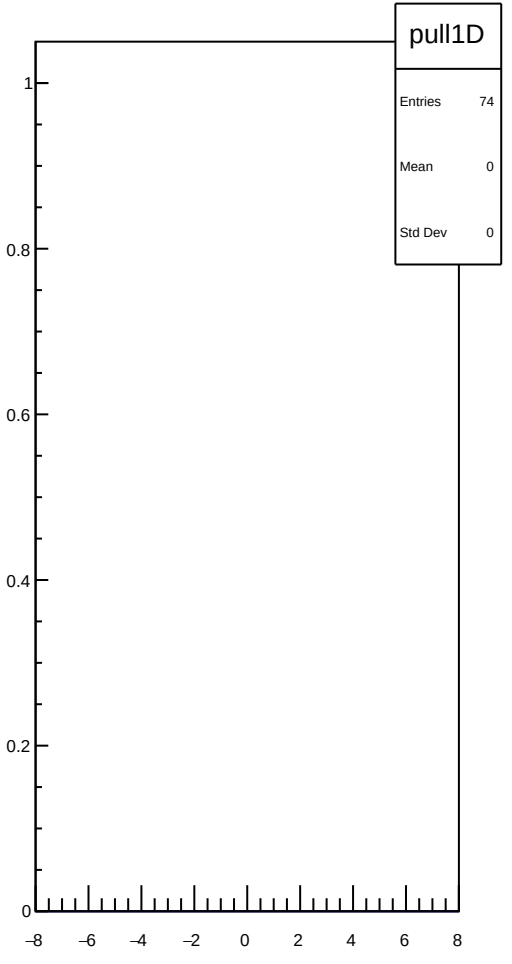

yield_bpm11Y_rms vs run
χ² / ndf 4.471e+04 / 73
p0 0.01013 ± 8.585e–06
0.03
0.025
0.02
0.015
0.01

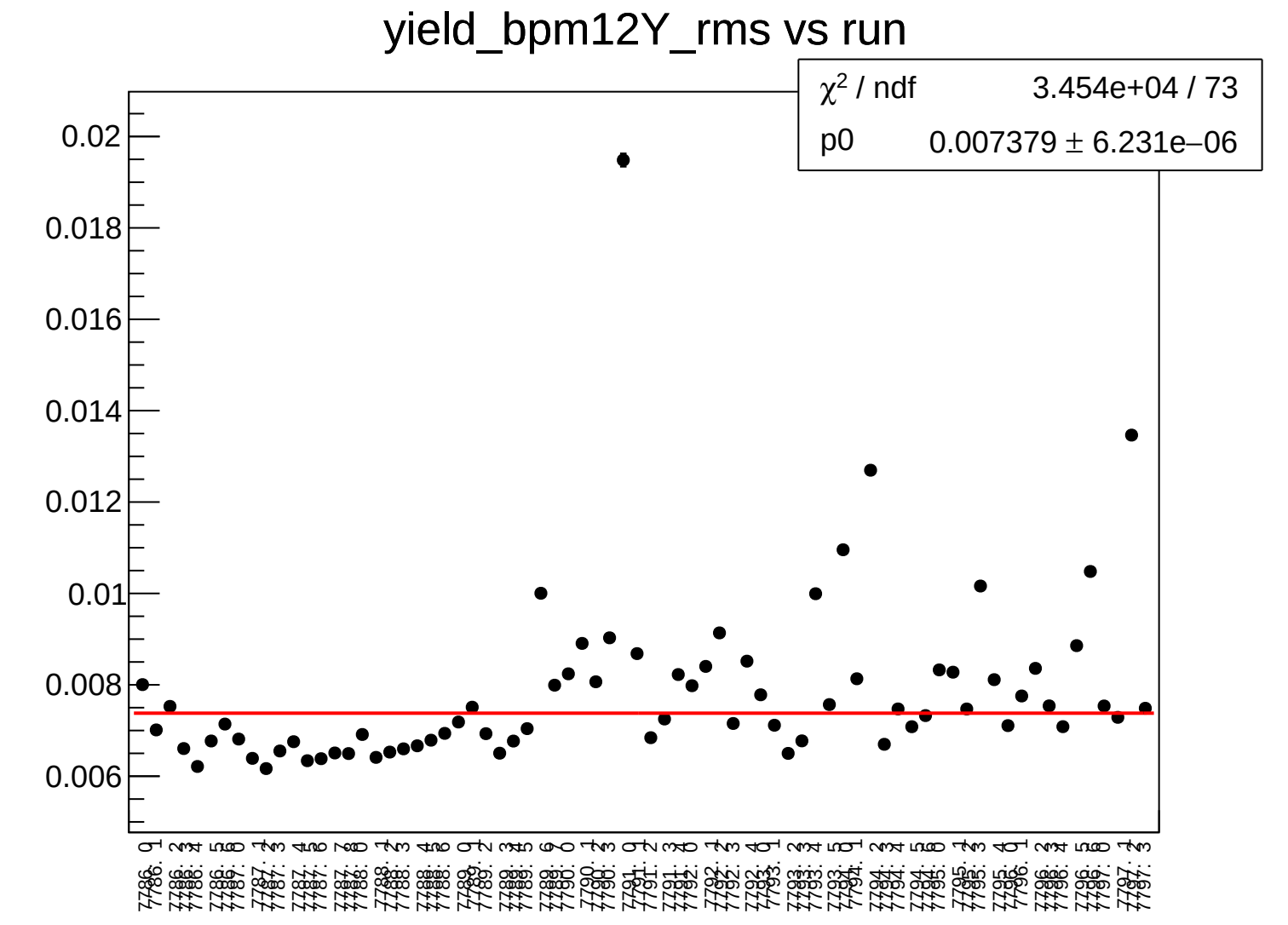

yield_bpm12X_mean vs run
χ² / ndf 7.231e+05 / 73
p0 −0.8158 ± 6.908e−05
pull
Entries 74
Mean 486.1
Std Dev 451.9

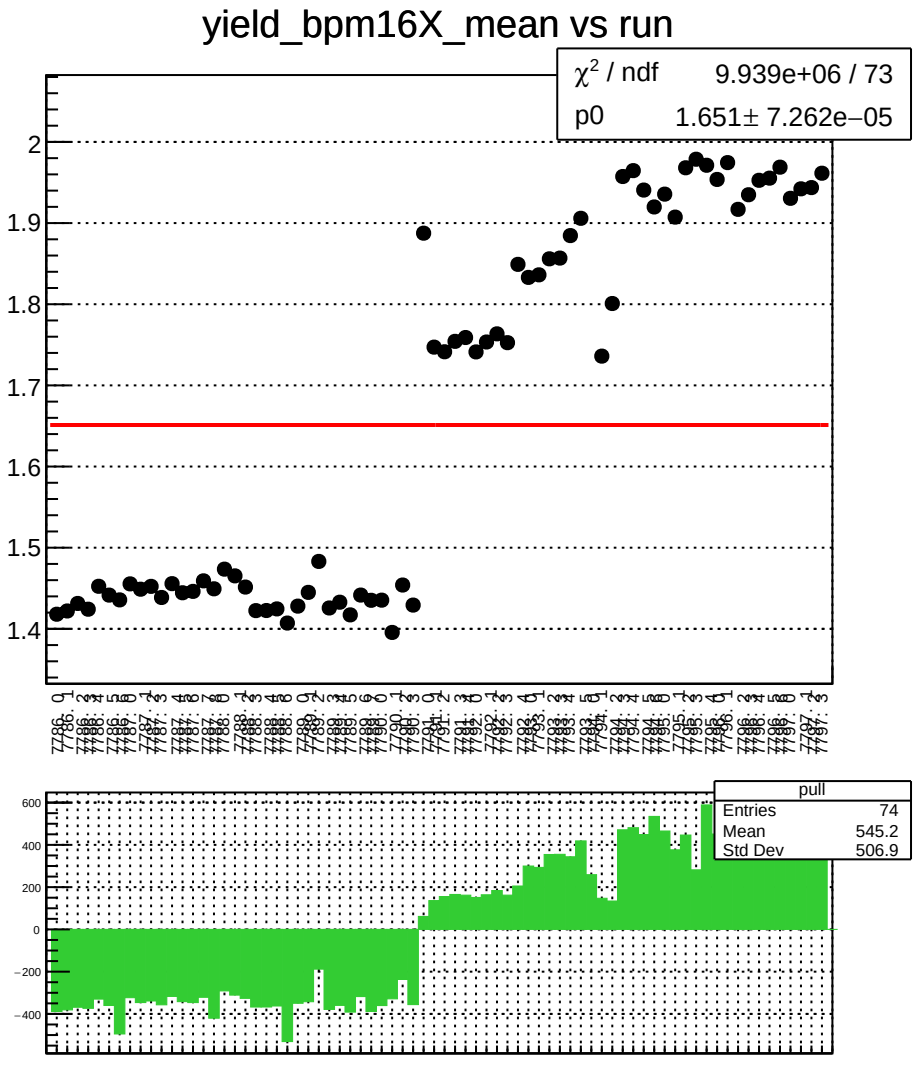

pull1D
Entries 74
Mean 2.749
Std Dev 0.4976

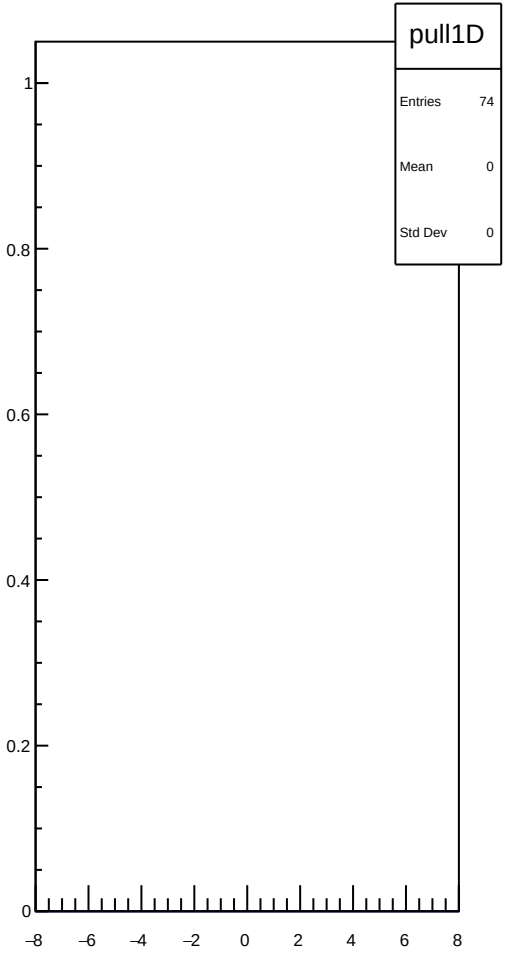

yield_bpm12X_rms vs run
χ² / ndf 5.435e+04 / 73
p0 0.05744 ± 4.884e–05
0.3
0.25
0.2
0.15
0.1
0.05

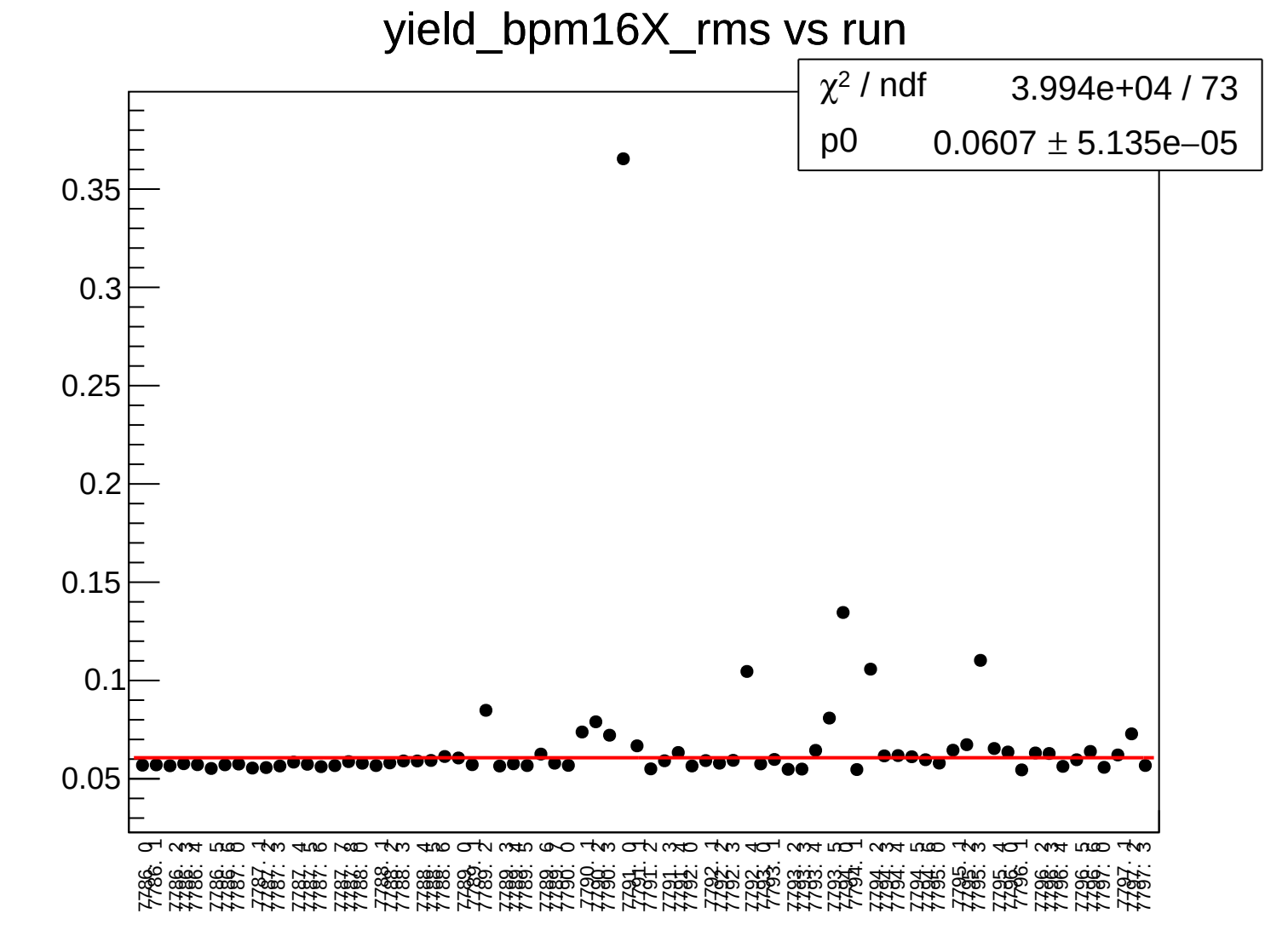

yield_bpm12Y_mean vs run
χ² / ndf 4.458e+06 / 73
p0 1.654 ± 8.812e−06
1.72
1.7
1.68
1.66
1.64
1.62
pull
Entries 74
Mean 204.3
Std Dev 185.3
400
200
0
−200
−400

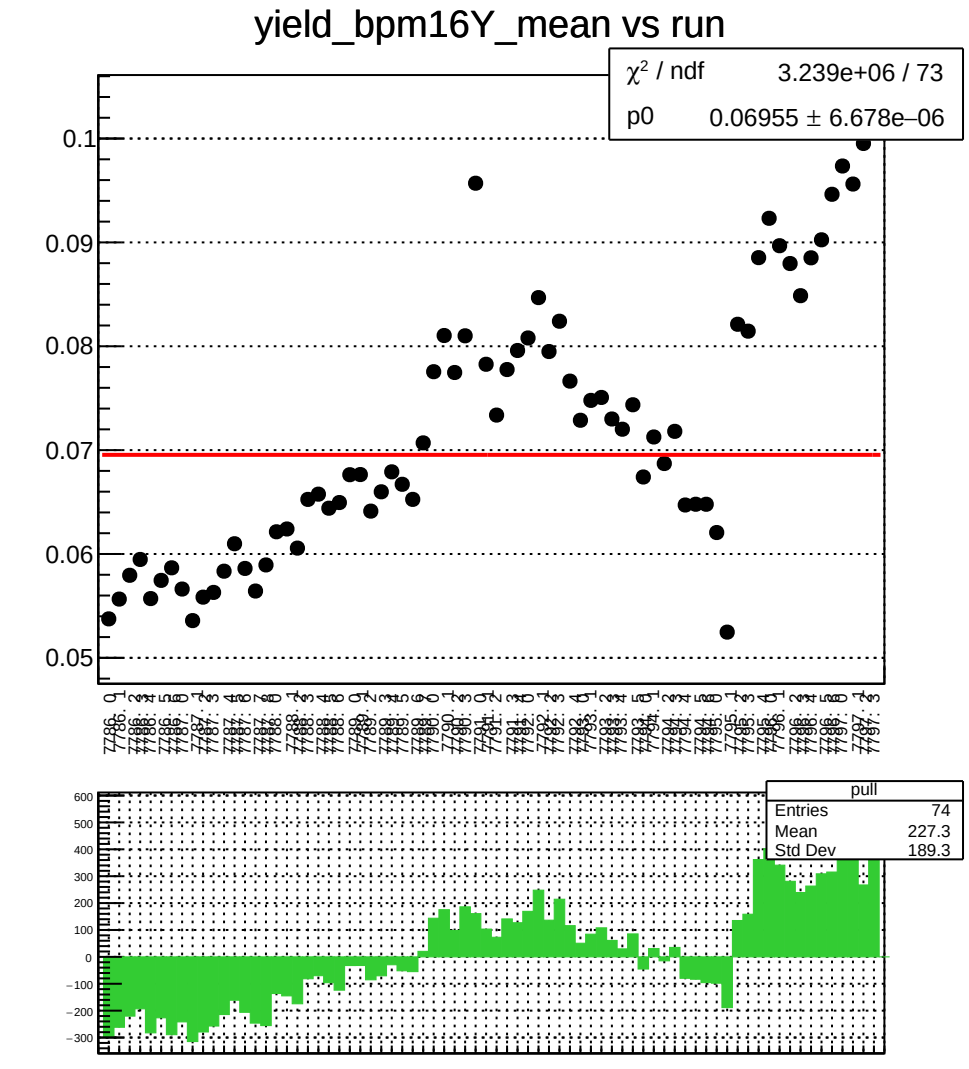

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

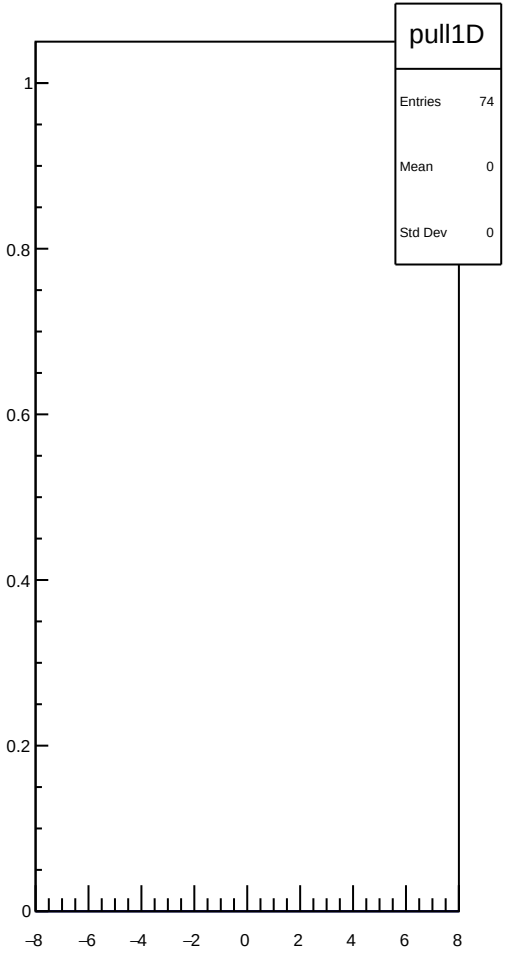

yield_bpm12Y_rms vs run
χ² / ndf 3.454e+04 / 73
p0 0.007379 ± 6.231e−06
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006

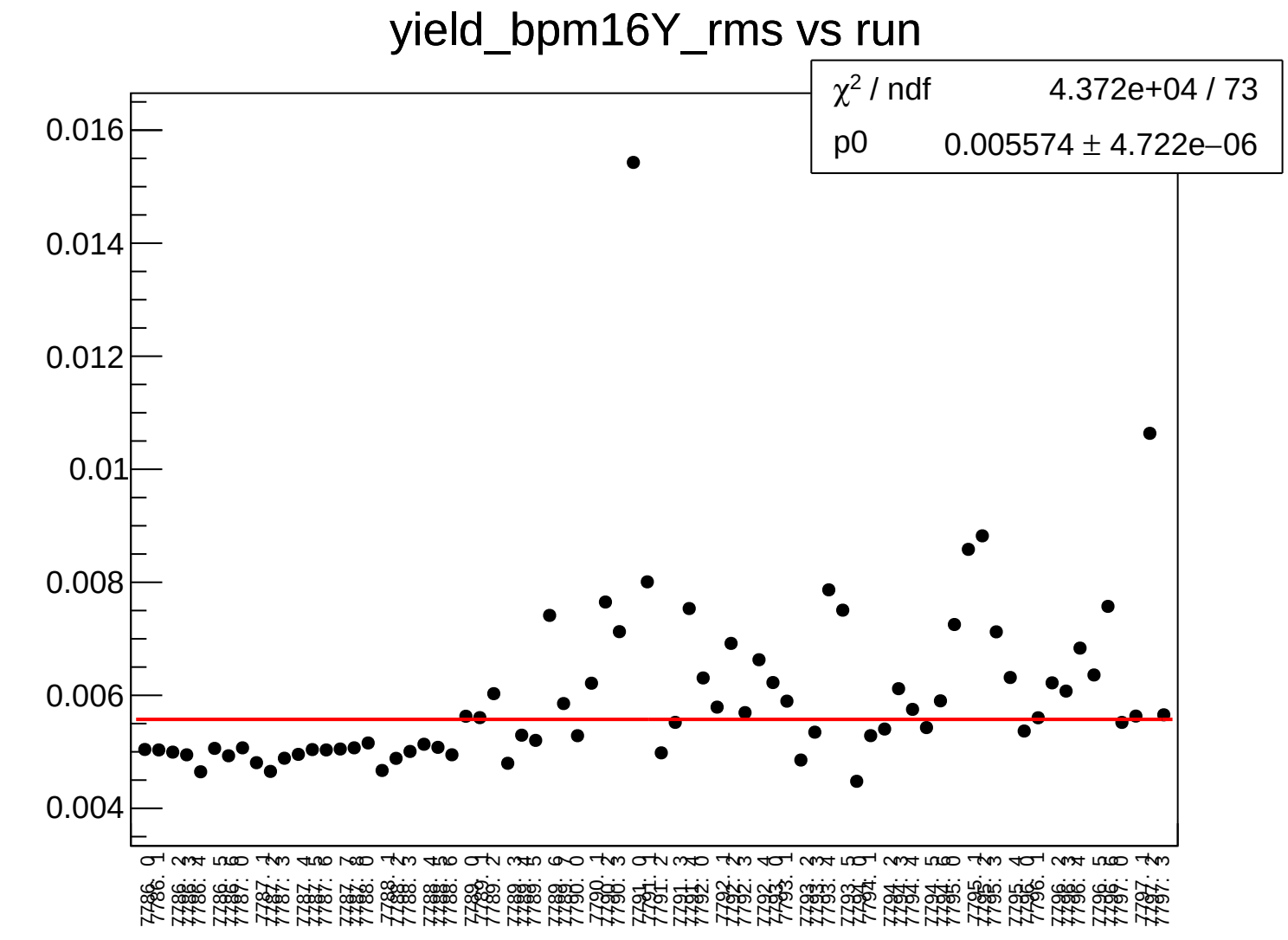

yield_bpm16X_mean vs run
χ² / ndf 9.939e+06 / 73
p0 1.651± 7.262e−05
pull
Entries 74
Mean 545.2
Std Dev 506.9

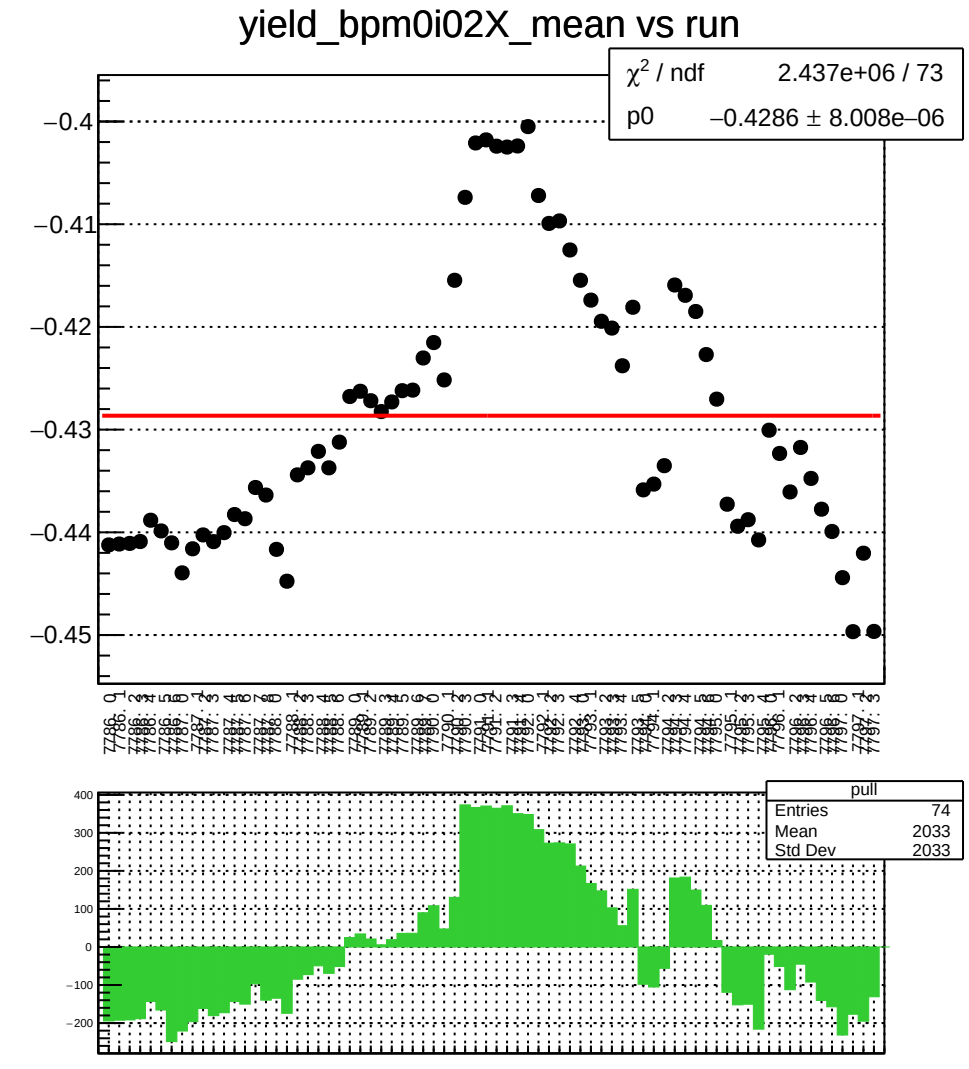

pull1D
Entries 74
Mean 0
Std Dev 0

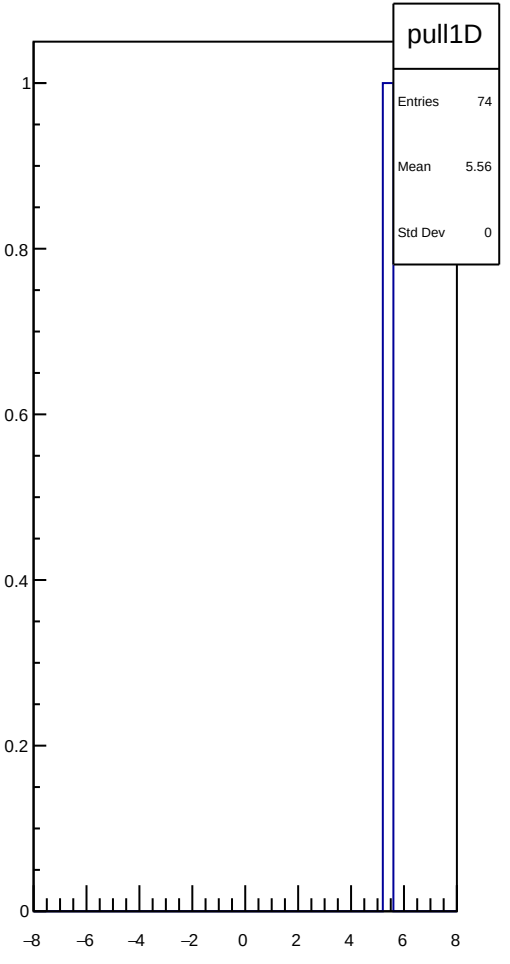

yield_bpm16X_rms vs run
χ² / ndf 3.994e+04 / 73
p0 0.0607 ± 5.135e−05
0.35
0.3
0.25
0.2
0.15
0.1
0.05

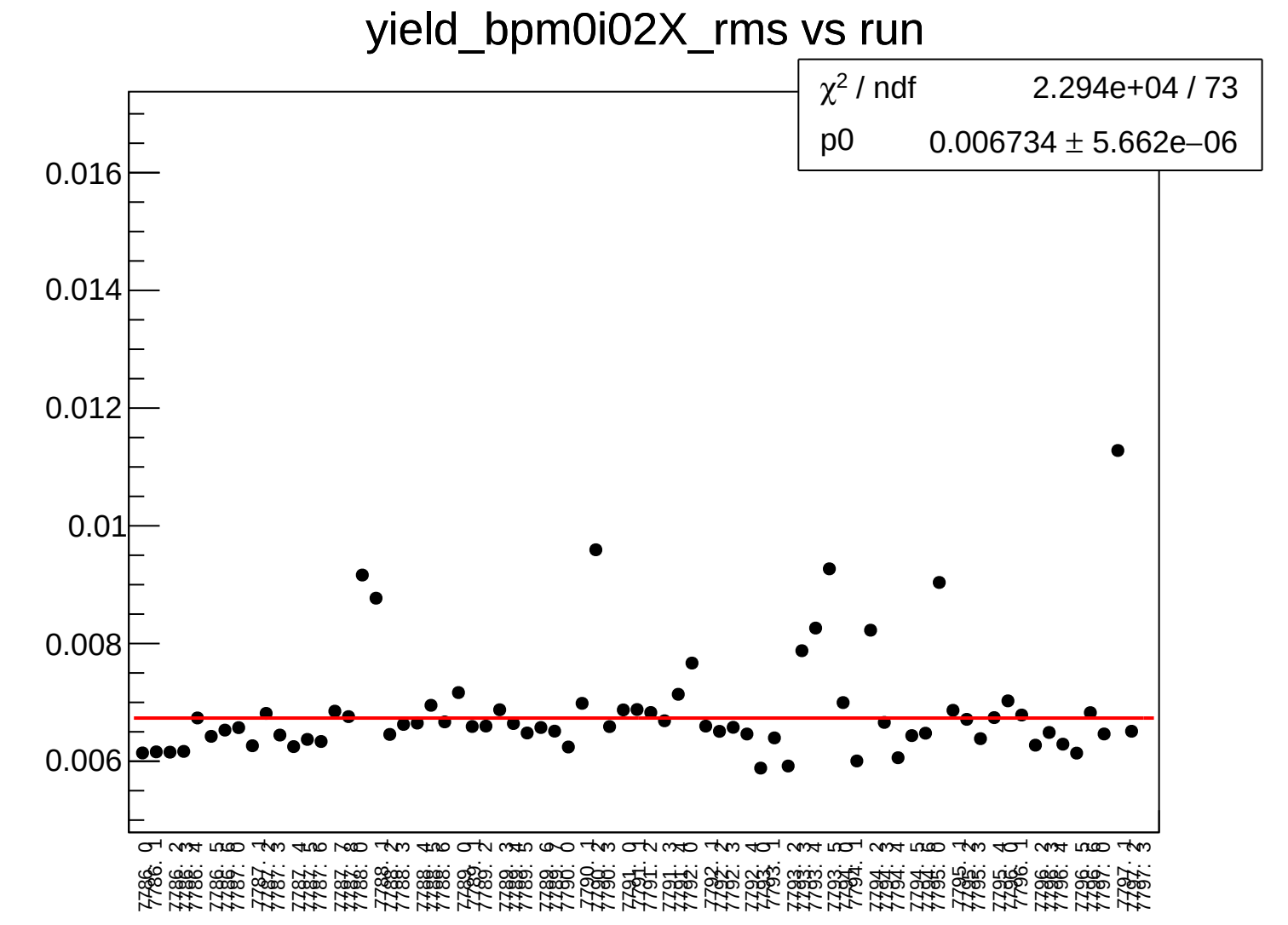

yield_bpm16Y_mean vs run
χ² / ndf 3.239e+06 / 73
p0 0.06955 ± 6.678e−06
0.1
0.09
0.08
0.07
0.06
0.05
pull
Entries 74
Mean 227.3
Std Dev 189.3
600
500
400
300
200
100
0
−100
−200
−300

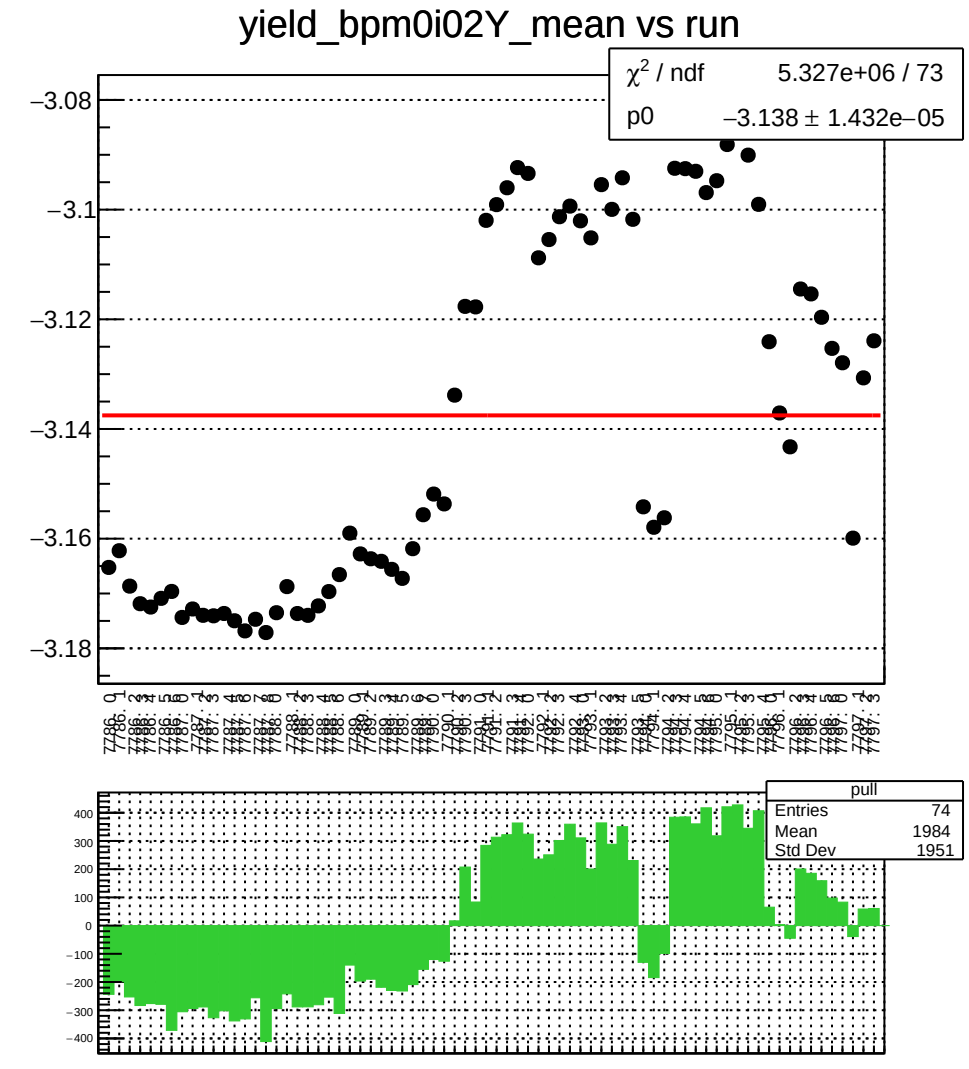

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

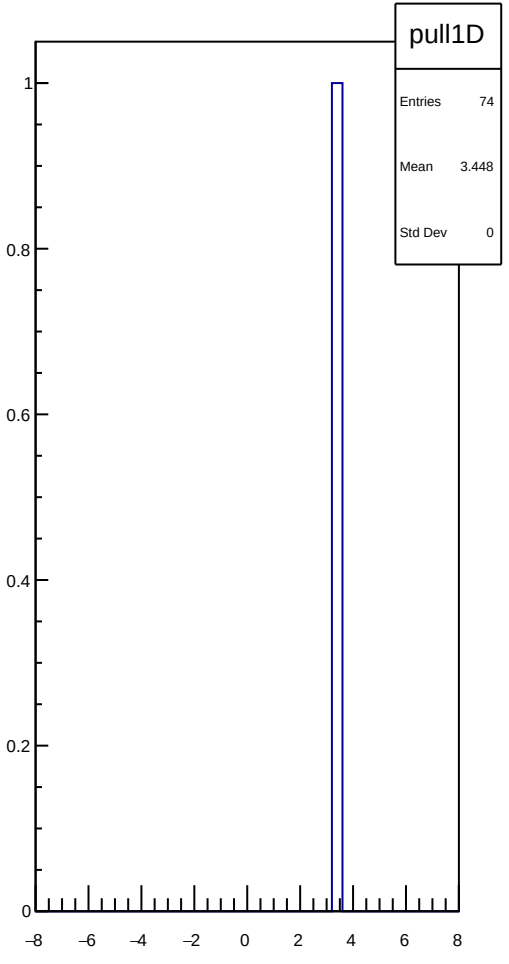

yield_bpm16Y_rms vs run
χ² / ndf 4.372e+04 / 73
p0 0.005574 ± 4.722e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

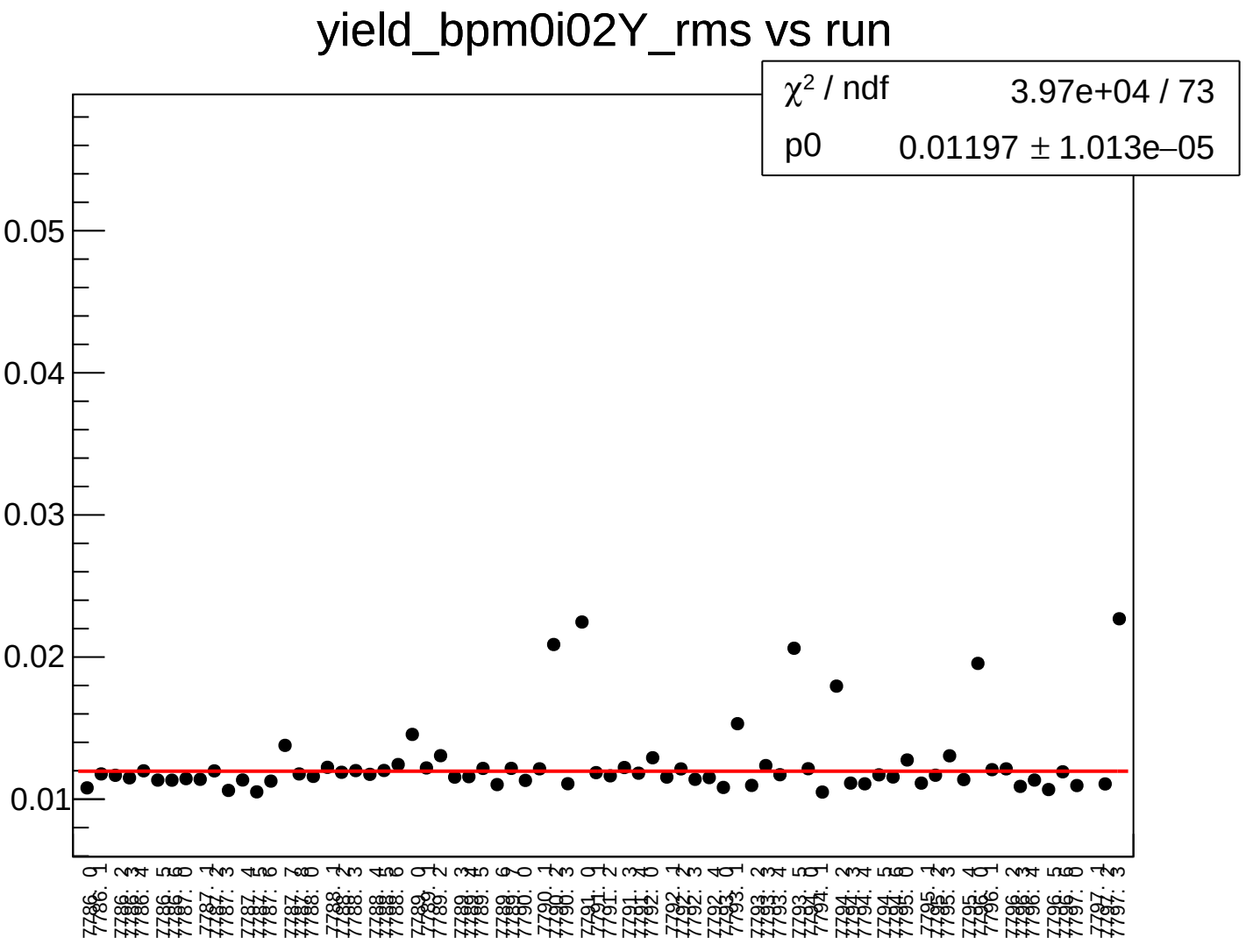

yield_bpm0i02X_mean vs run
χ² / ndf 2.437e+06 / 73
p0 −0.4286 ± 8.008e−06
−0.4
−0.41
−0.42
−0.43
−0.44
−0.45
pull
Entries 74
Mean 2033
Std Dev 2033
400
300
200
100
0
−100
−200

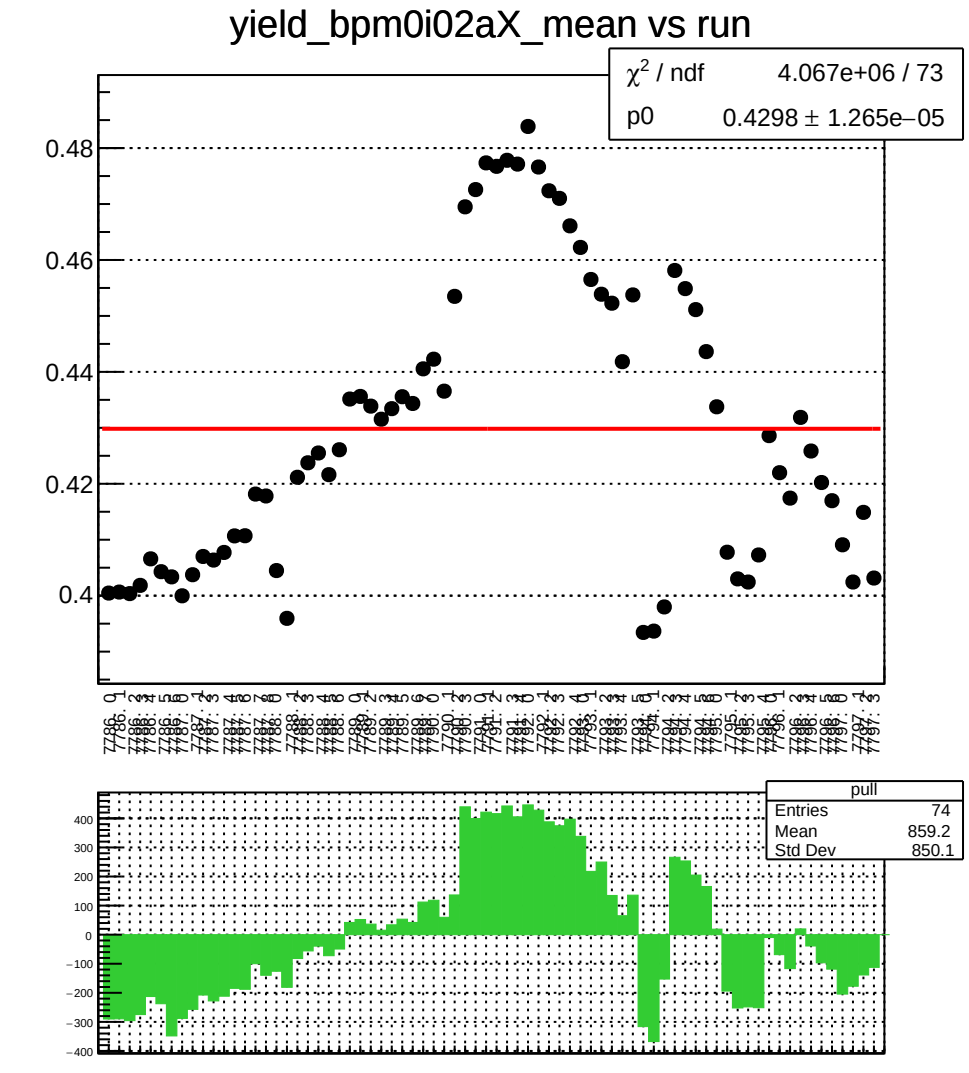

pull1D
Entries 74
Mean 5.56
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

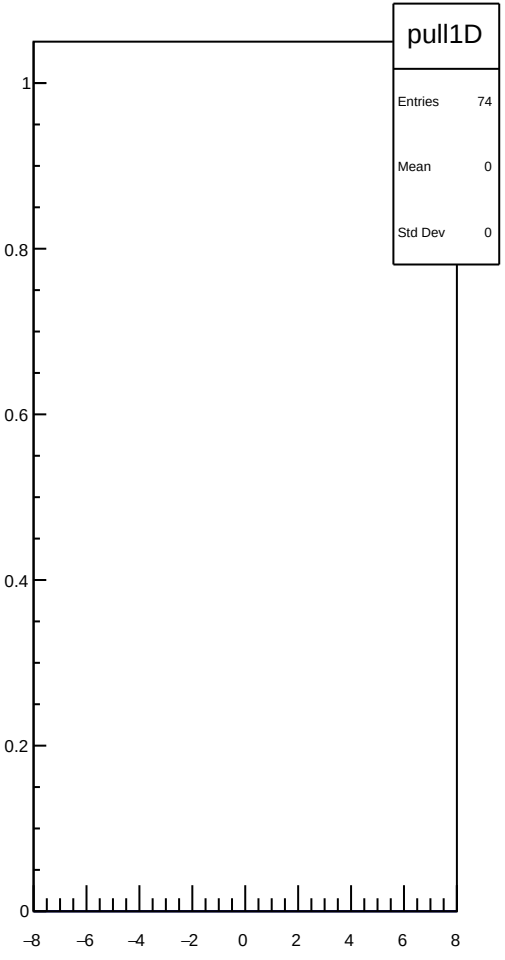

yield_bpm0i02X_rms vs run
χ² / ndf 2.294e+04 / 73
p0 0.006734 ± 5.662e−06
0.016
0.014
0.012
0.01
0.008
0.006

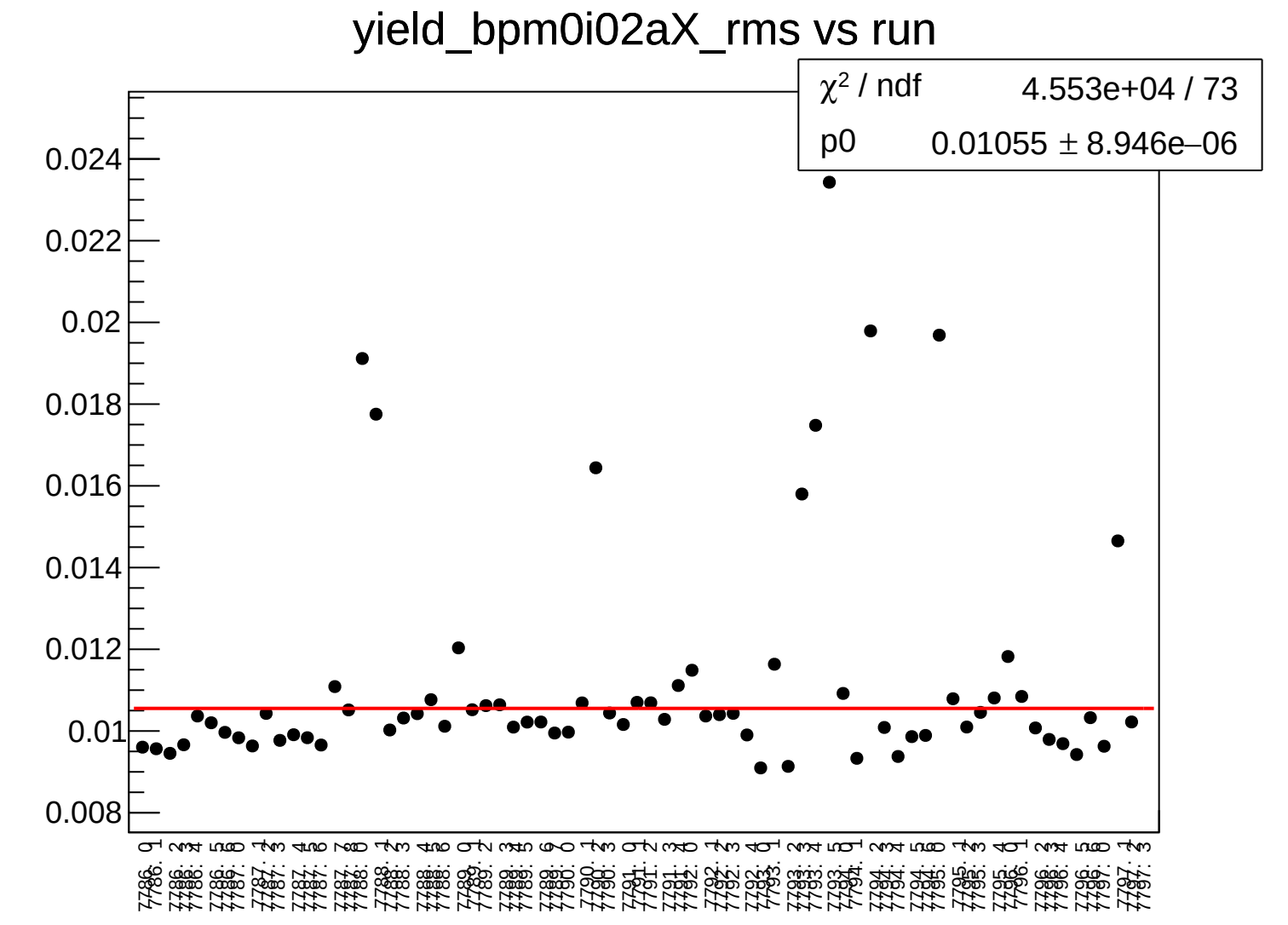

yield_bpm0i02Y_mean vs run
χ² / ndf 5.327e+06 / 73
p0 −3.138 ± 1.432e−05
−3.08
−3.1
−3.12
−3.14
−3.16
−3.18
pull
Entries 74
Mean 1984
Std Dev 1951
400
300
200
100
0
−100
−200
−300
−400

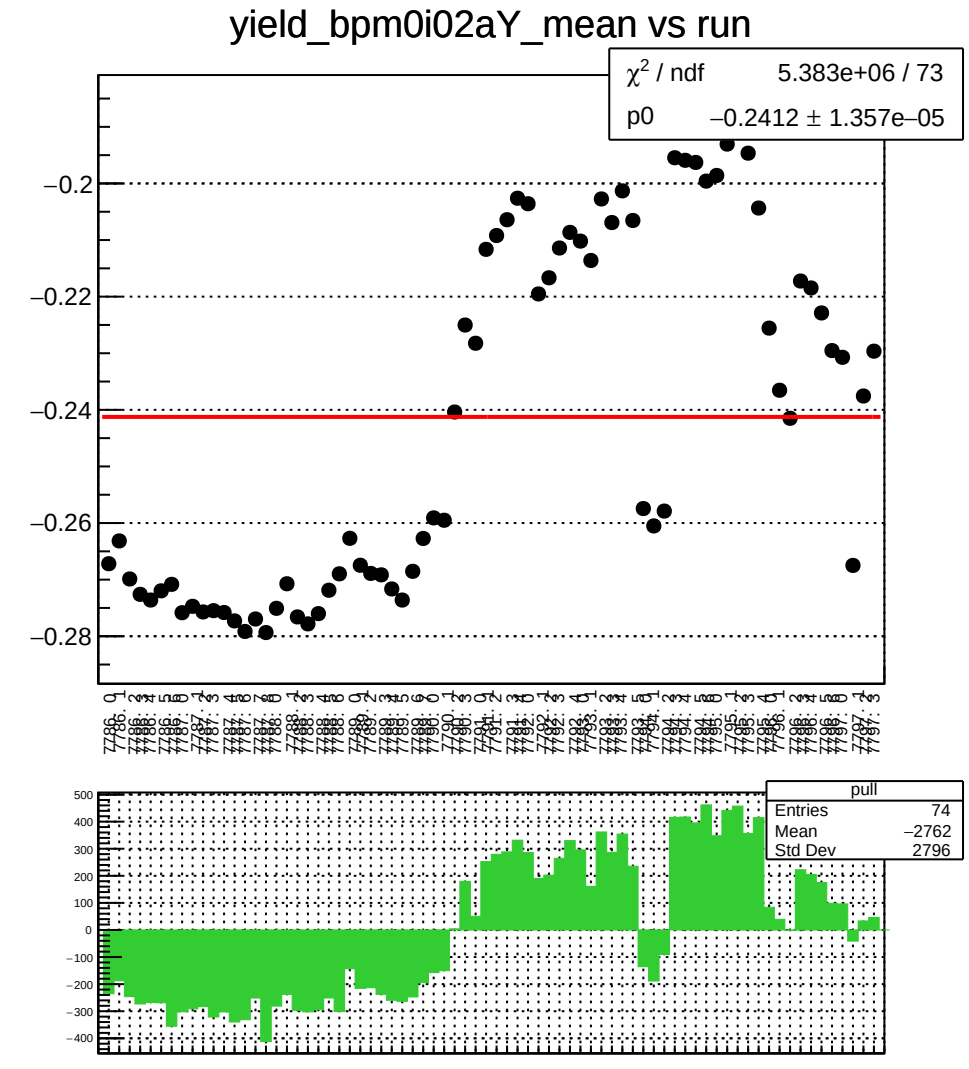

pull1D
Entries 74
Mean 3.448
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

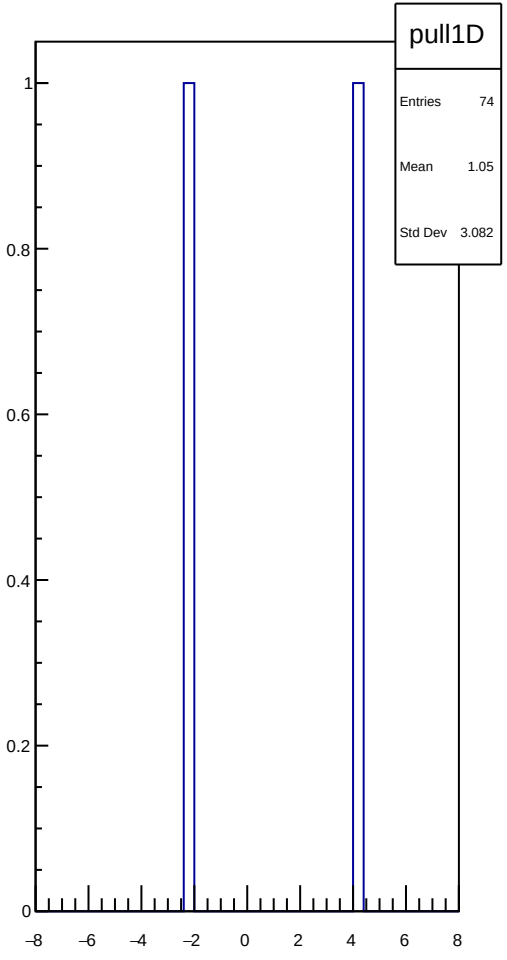

yield_bpm0i02Y_rms vs run
χ² / ndf 3.97e+04 / 73
p0 0.01197 ± 1.013e−05
0.05
0.04
0.03
0.02
0.01

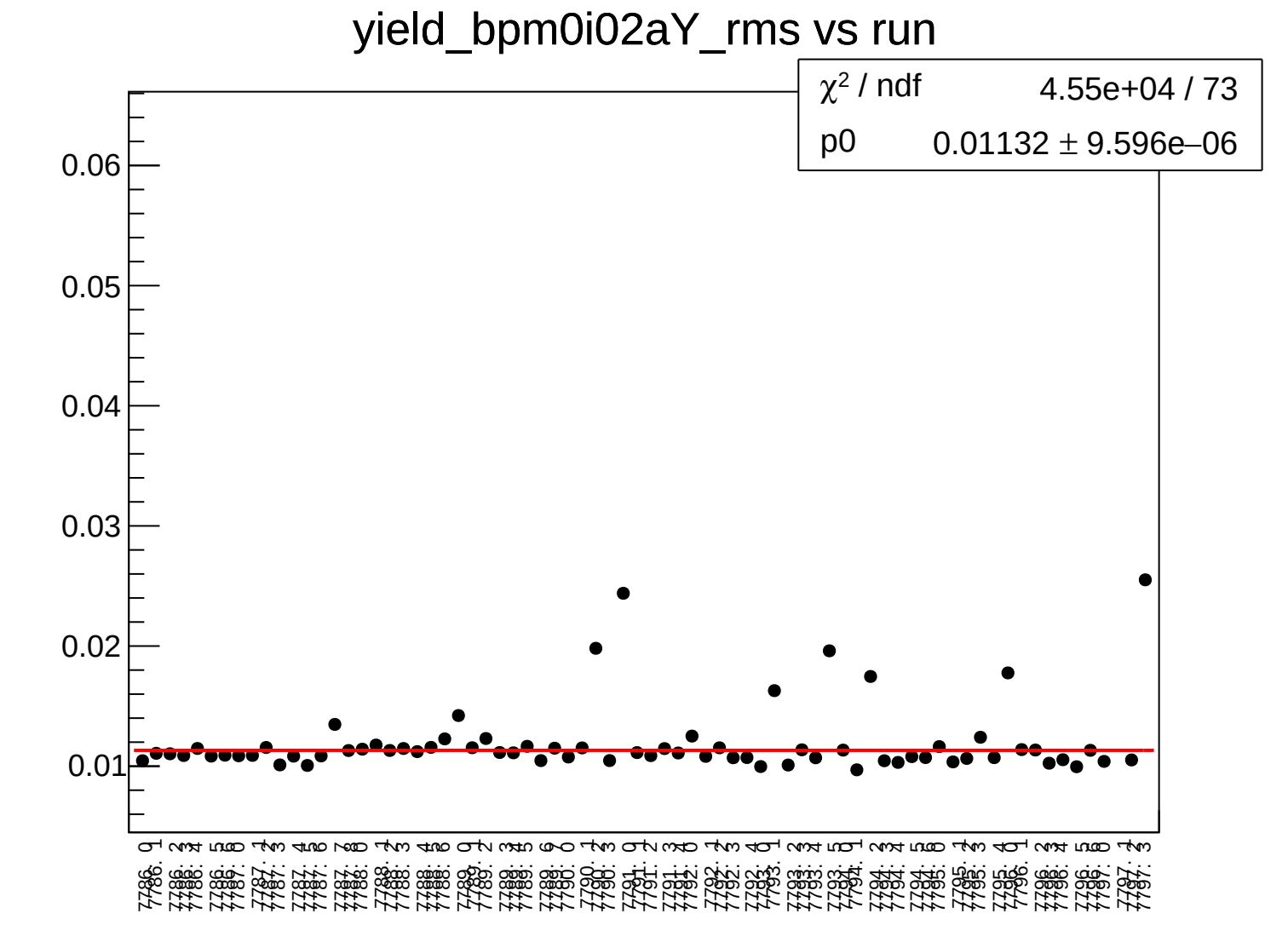

yield_bpm0i02aX_mean vs run
χ² / ndf 4.067e+06 / 73
p0 0.4298 ± 1.265e−05
0.48
0.46
0.44
0.42
0.4
pull
Entries 74
Mean 859.2
Std Dev 850.1
400
300
200
100
0
−100
−200
−300
−400

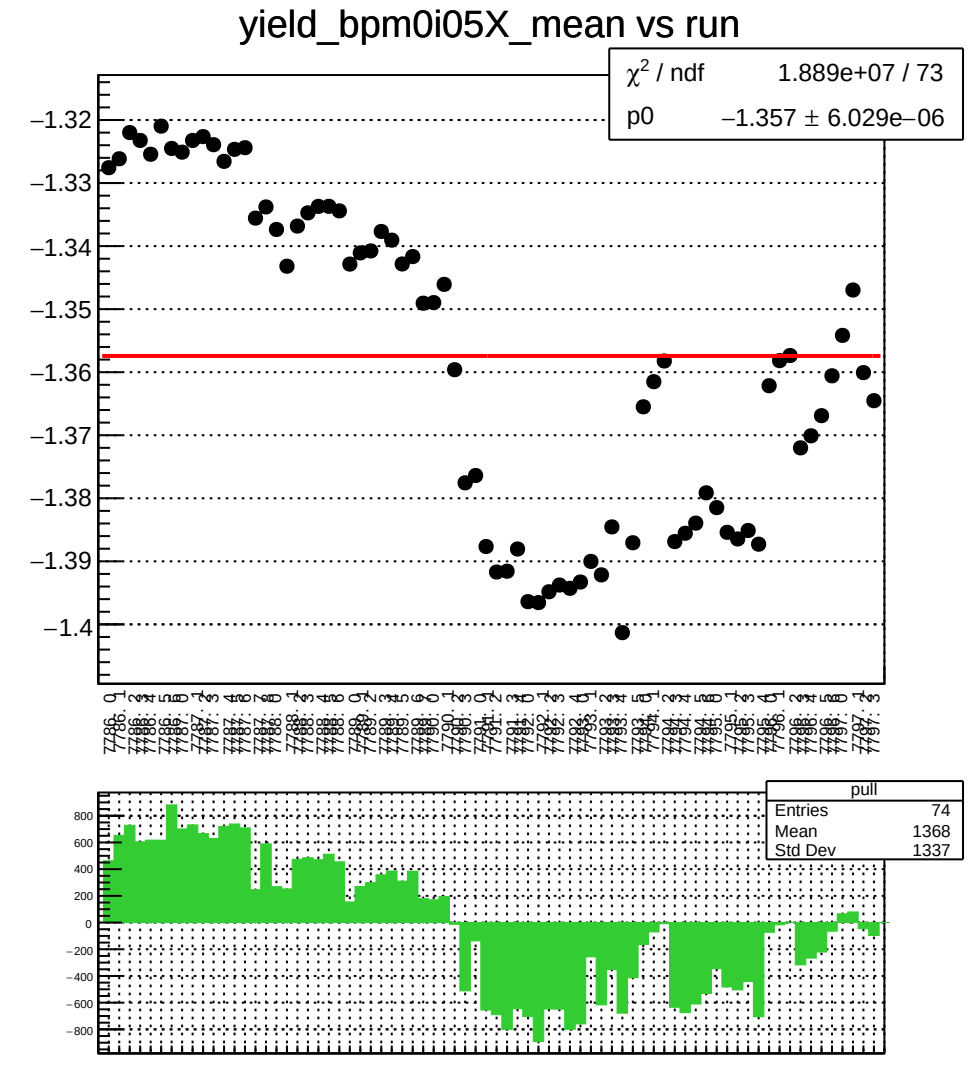

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

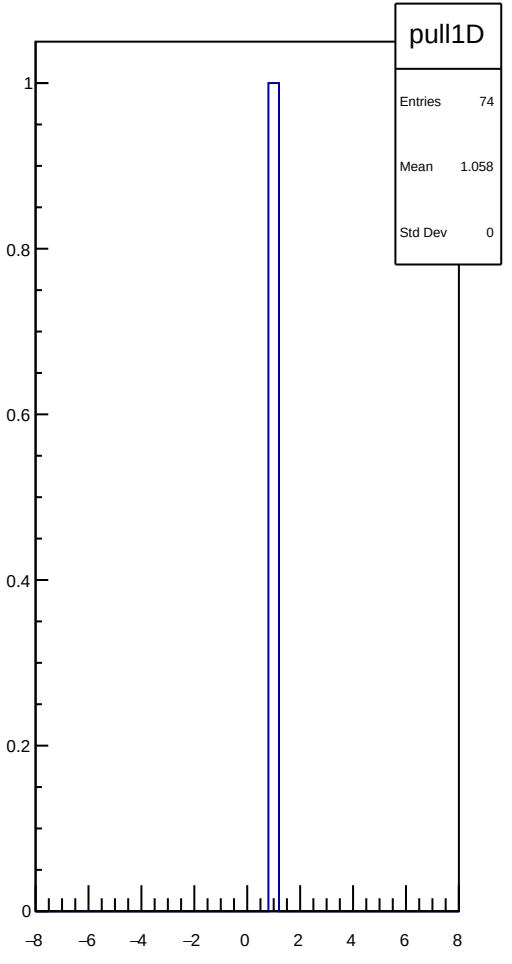

yield_bpm0i02aX_rms vs run
χ² / ndf 4.553e+04 / 73
p0 0.01055 ± 8.946e–06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

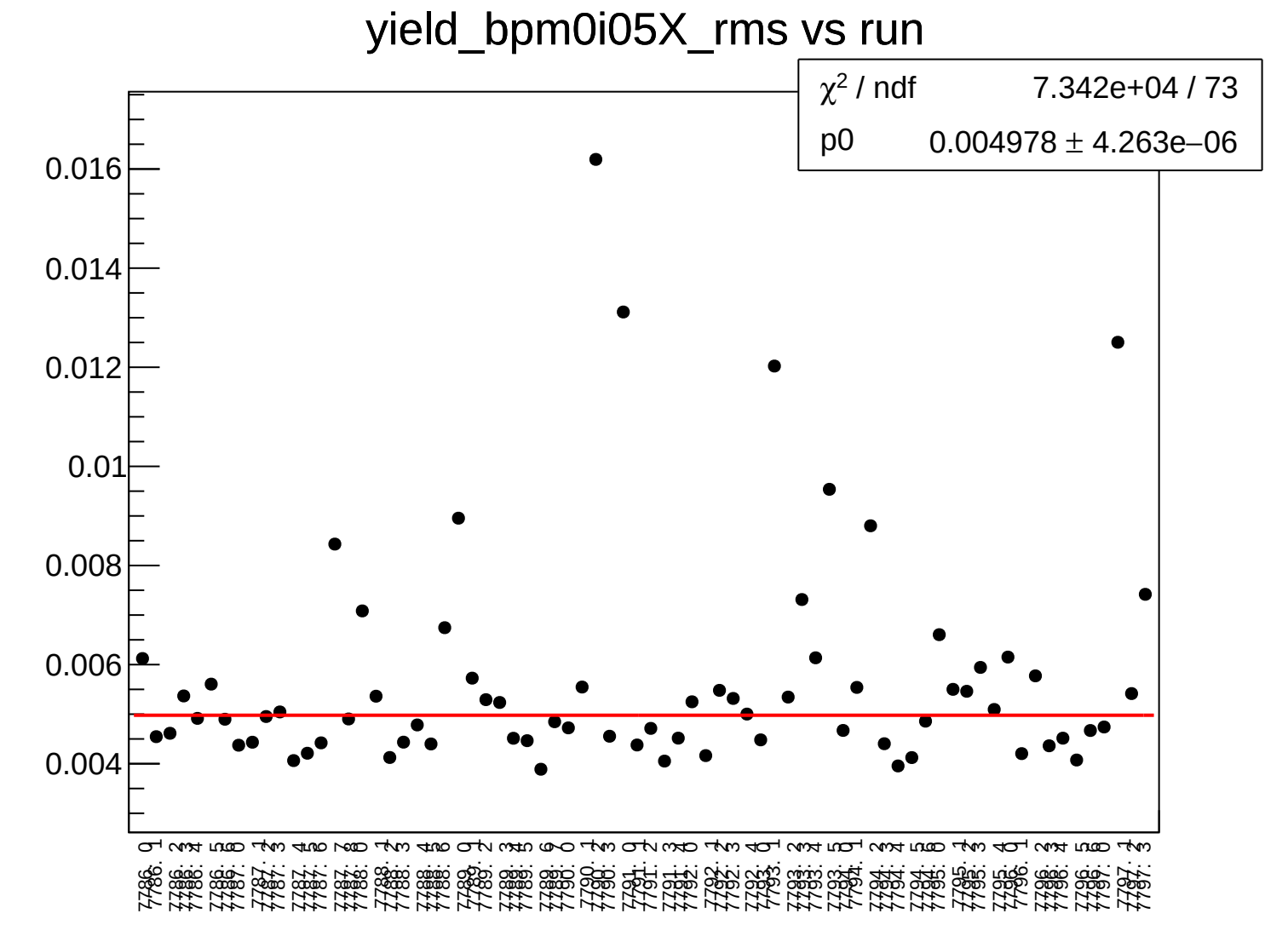

yield_bpm0i02aY_mean vs run
χ² / ndf 5.383e+06 / 73
p0 −0.2412 ± 1.357e−05
−0.2
−0.22
−0.24
−0.26
−0.28
pull
Entries 74
Mean −2762
Std Dev 2796
500
400
300
200
100
0
−100
−200
−300
−400

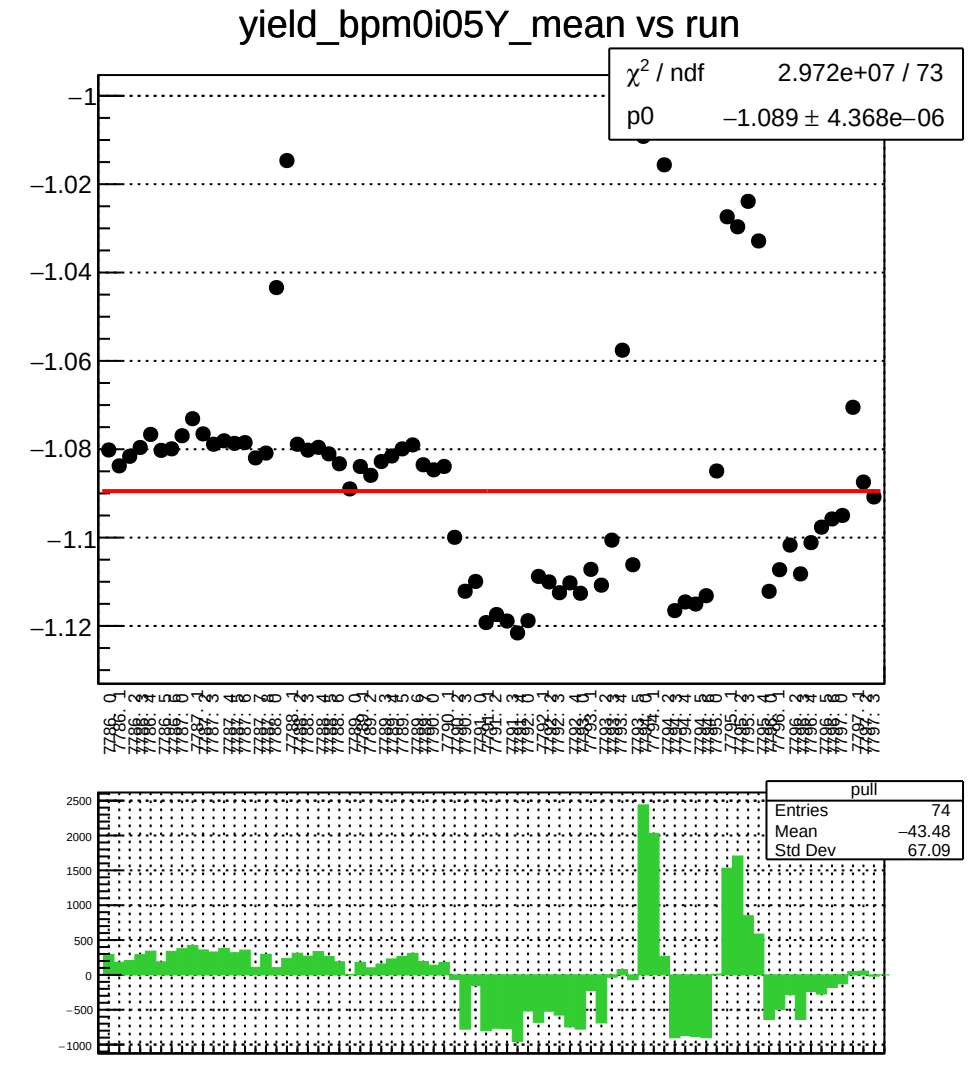

pull1D
Entries 74
Mean 1.05
Std Dev 3.082
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

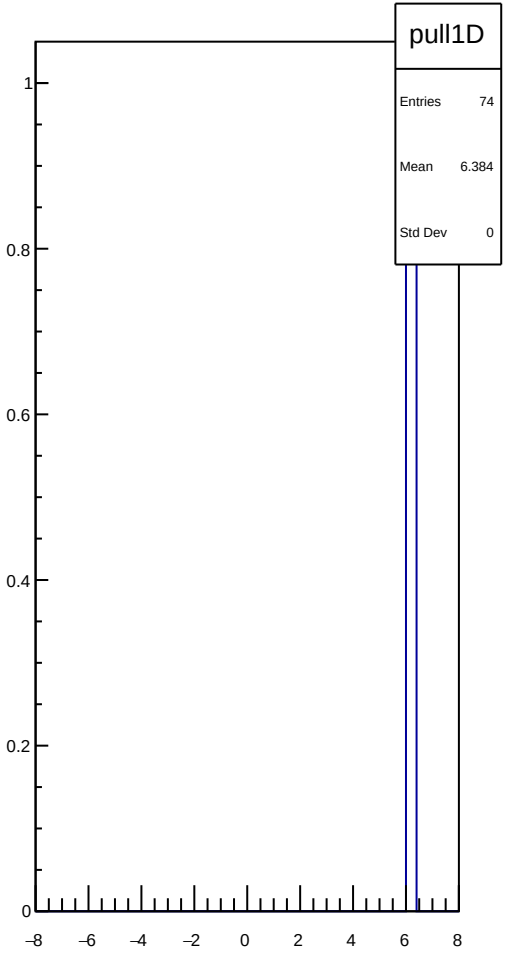

yield_bpm0i02aY_rms vs run
χ² / ndf 4.55e+04 / 73
p0 0.01132 ± 9.596e–06
0.06
0.05
0.04
0.03
0.02
0.01

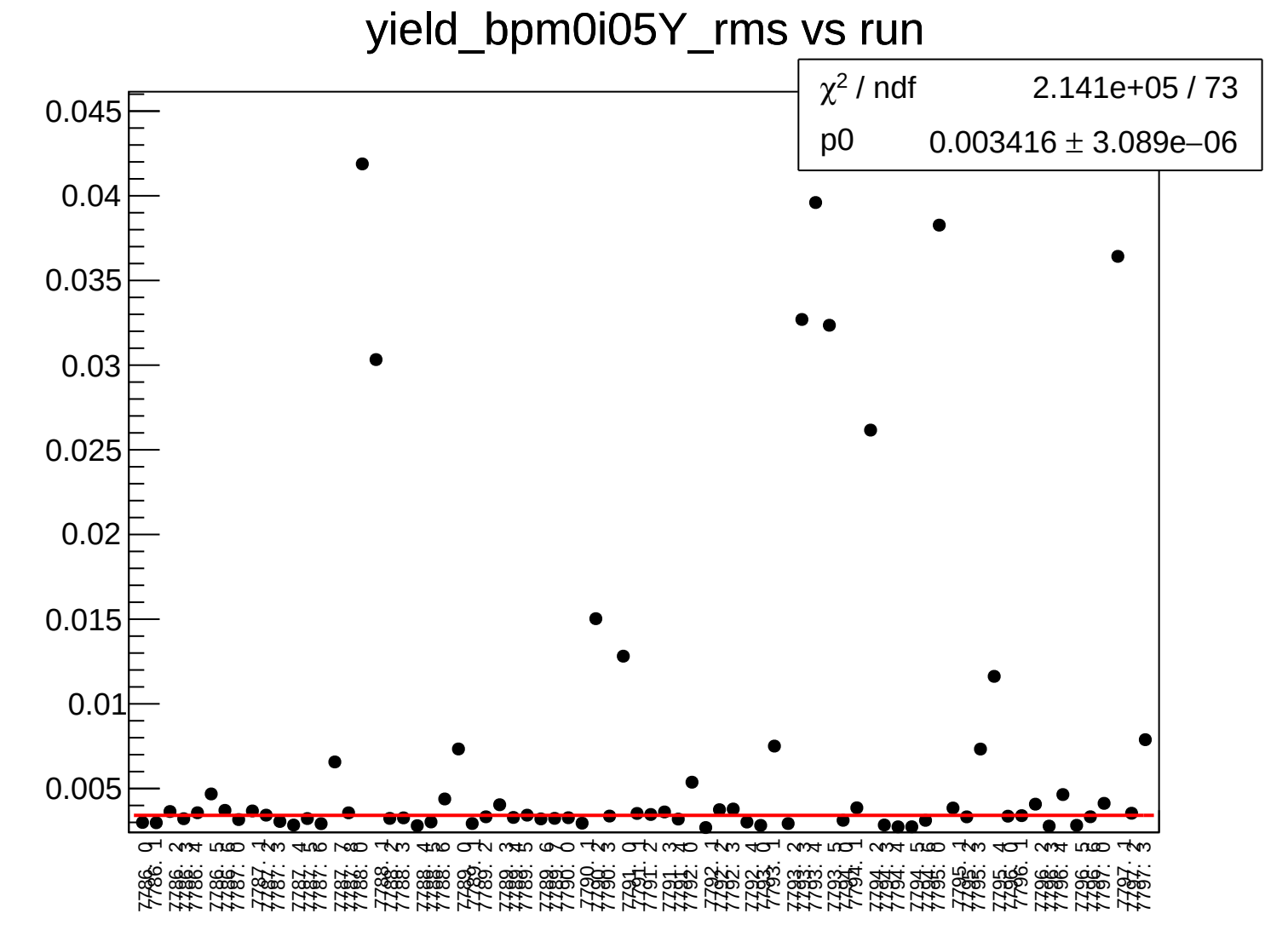

yield_bpm0i05X_mean vs run
χ² / ndf 1.889e+07 / 73
p0 −1.357 ± 6.029e−06
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
−1.38
−1.39
−1.4
pull
Entries 74
Mean 1368
Std Dev 1337
800
600
400
200
0
−200
−400
−600
−800

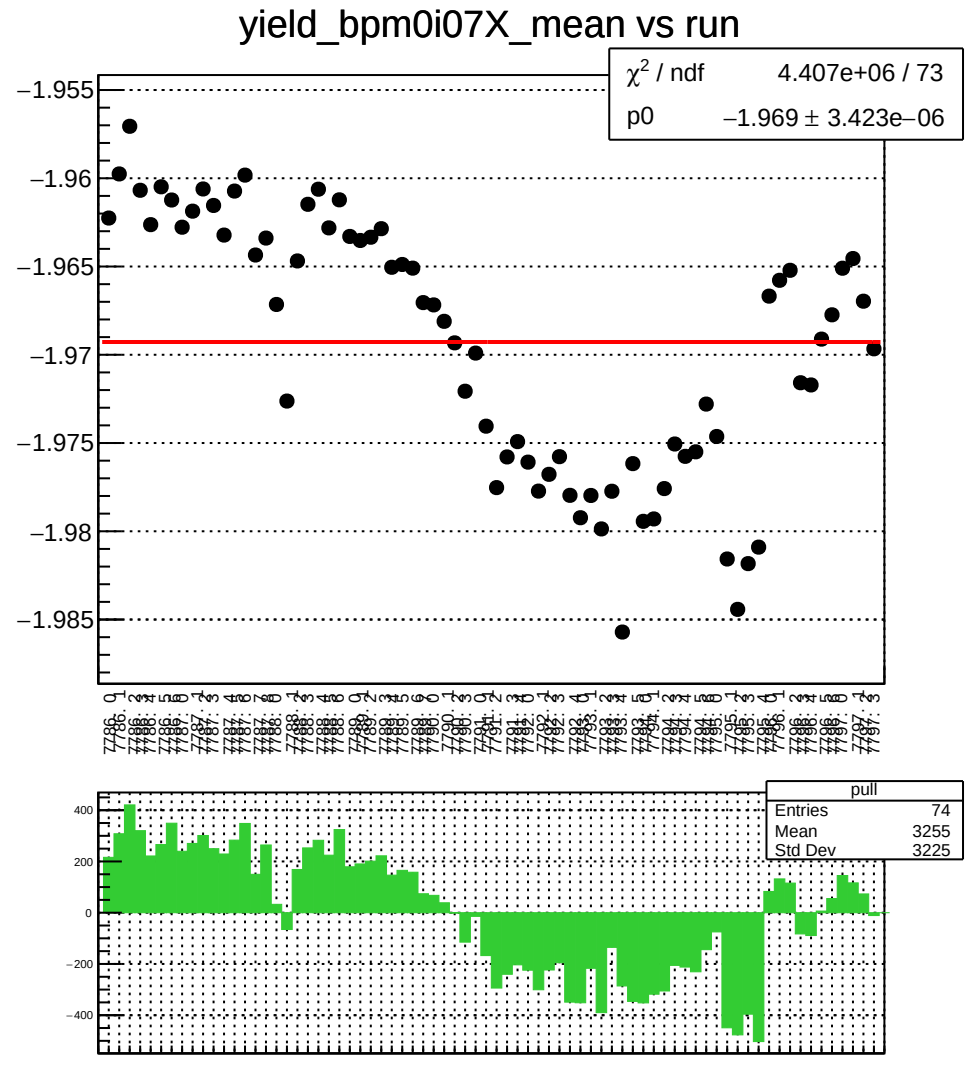

pull1D
Entries 74
Mean 1.058
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

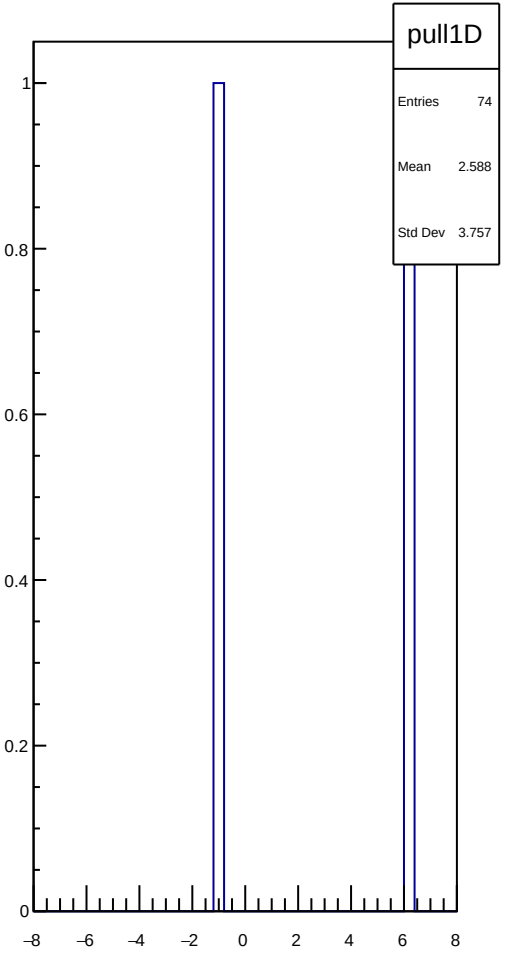

yield_bpm0i05X_rms vs run
χ² / ndf 7.342e+04 / 73
p0 0.004978 ± 4.263e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004

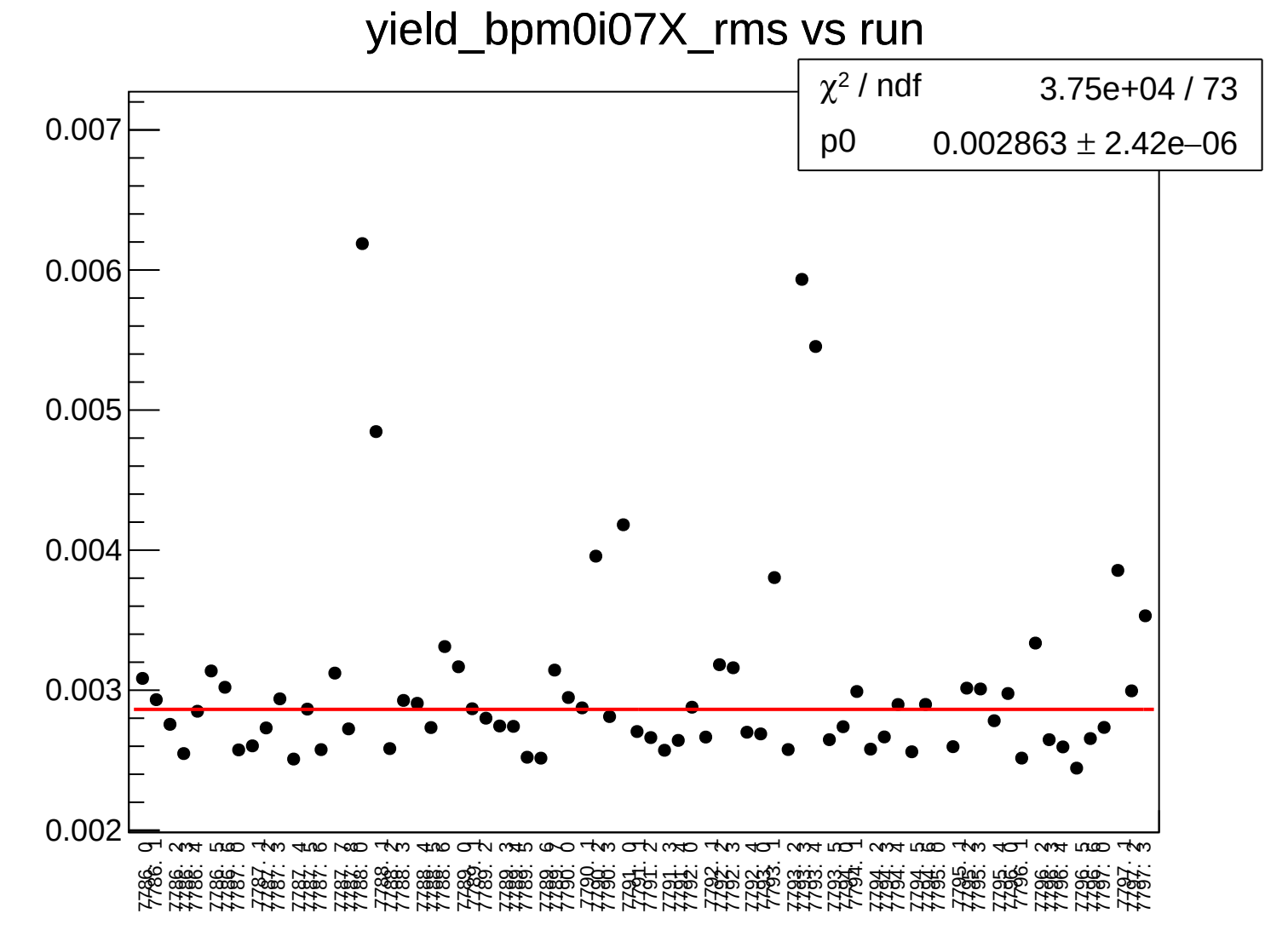

yield_bpm0i05Y_mean vs run
χ² / ndf 2.972e+07 / 73
p0 −1.089 ± 4.368e−06
pull
Entries 74
Mean −43.48
Std Dev 67.09

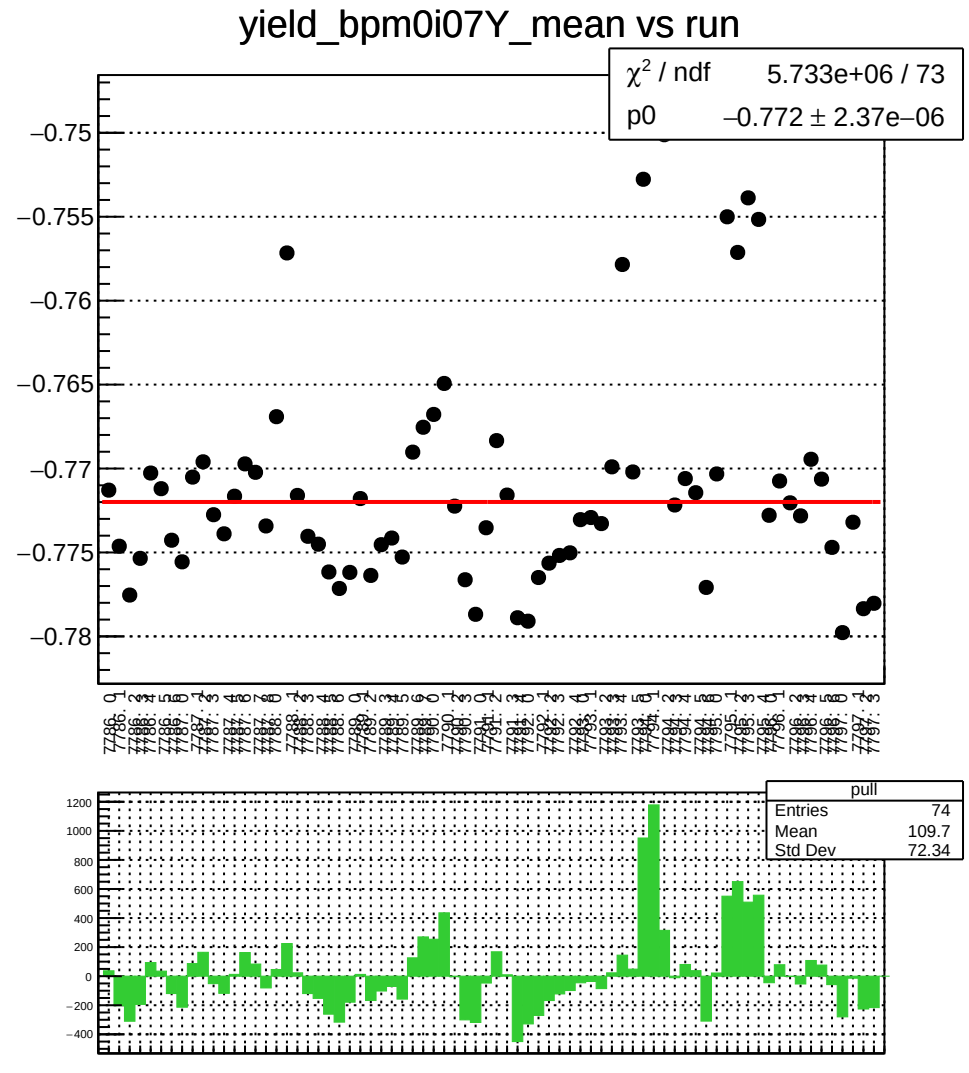

pull1D
Entries 74
Mean 6.384
Std Dev 0

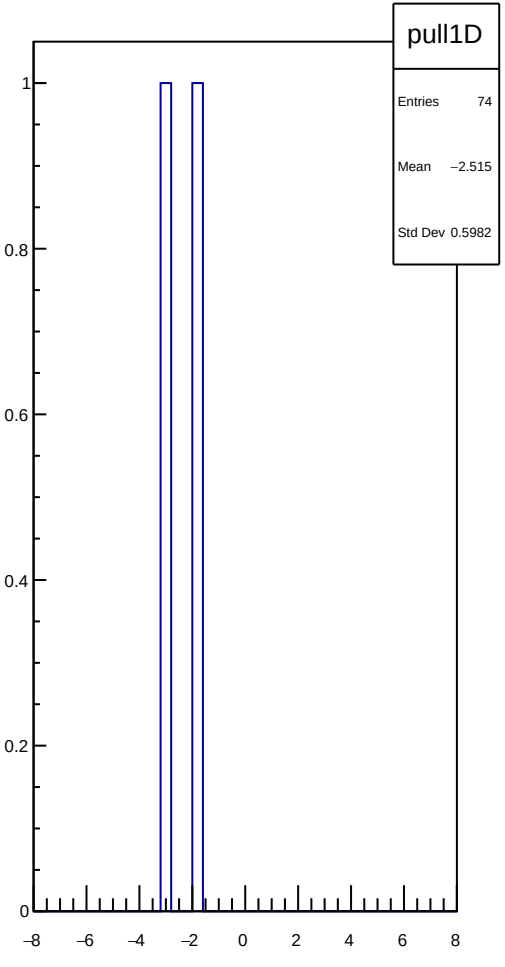

yield_bpm0i05Y_rms vs run
χ² / ndf 2.141e+05 / 73
p0 0.003416 ± 3.089e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

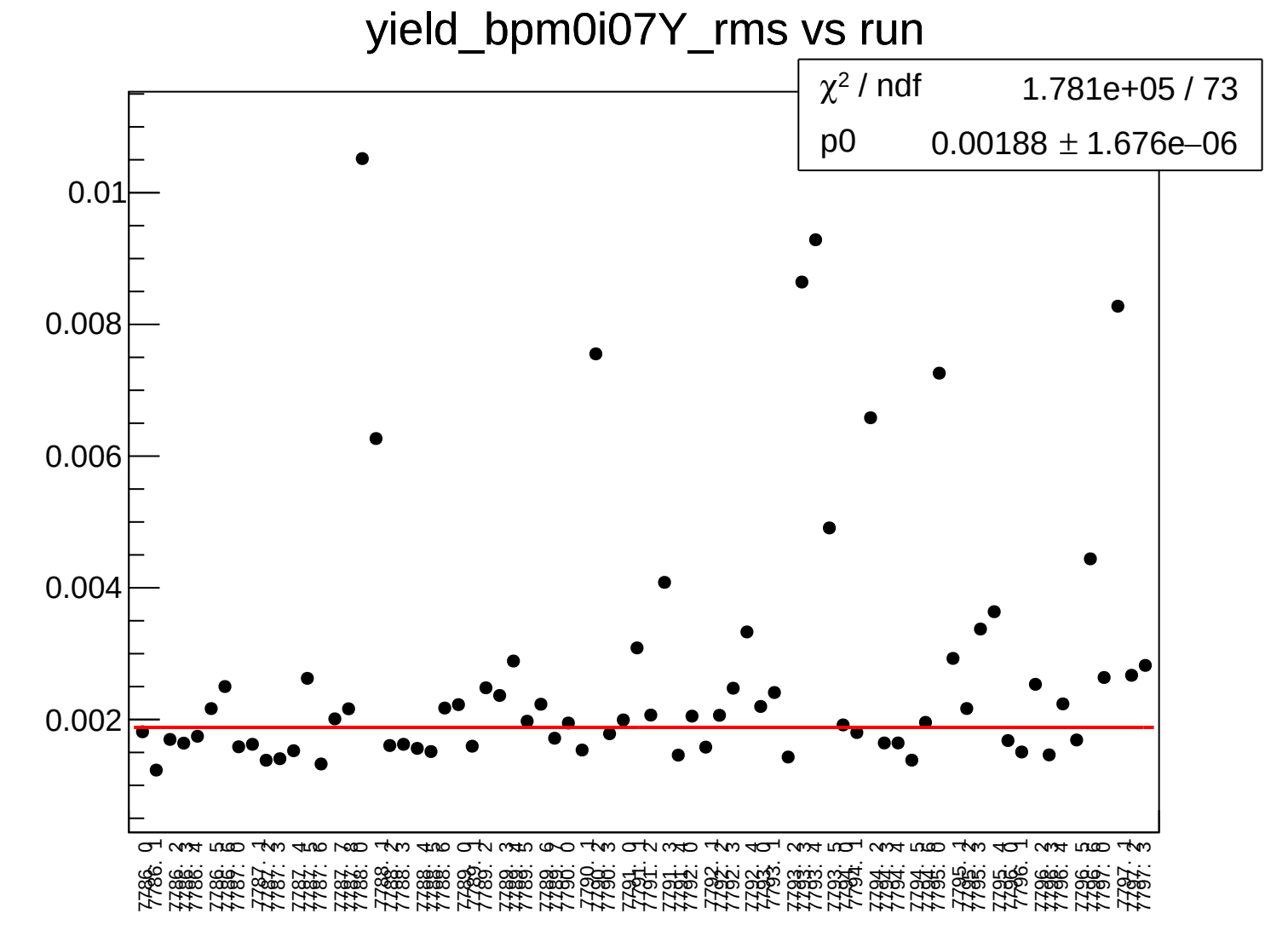

yield_bpm0i07X_mean vs run
χ² / ndf 4.407e+06 / 73
p0 −1.969 ± 3.423e−06
−1.955
−1.96
−1.965
−1.97
−1.975
−1.98
−1.985
pull
Entries 74
Mean 3255
Std Dev 3225
400
200
0
−200
−400

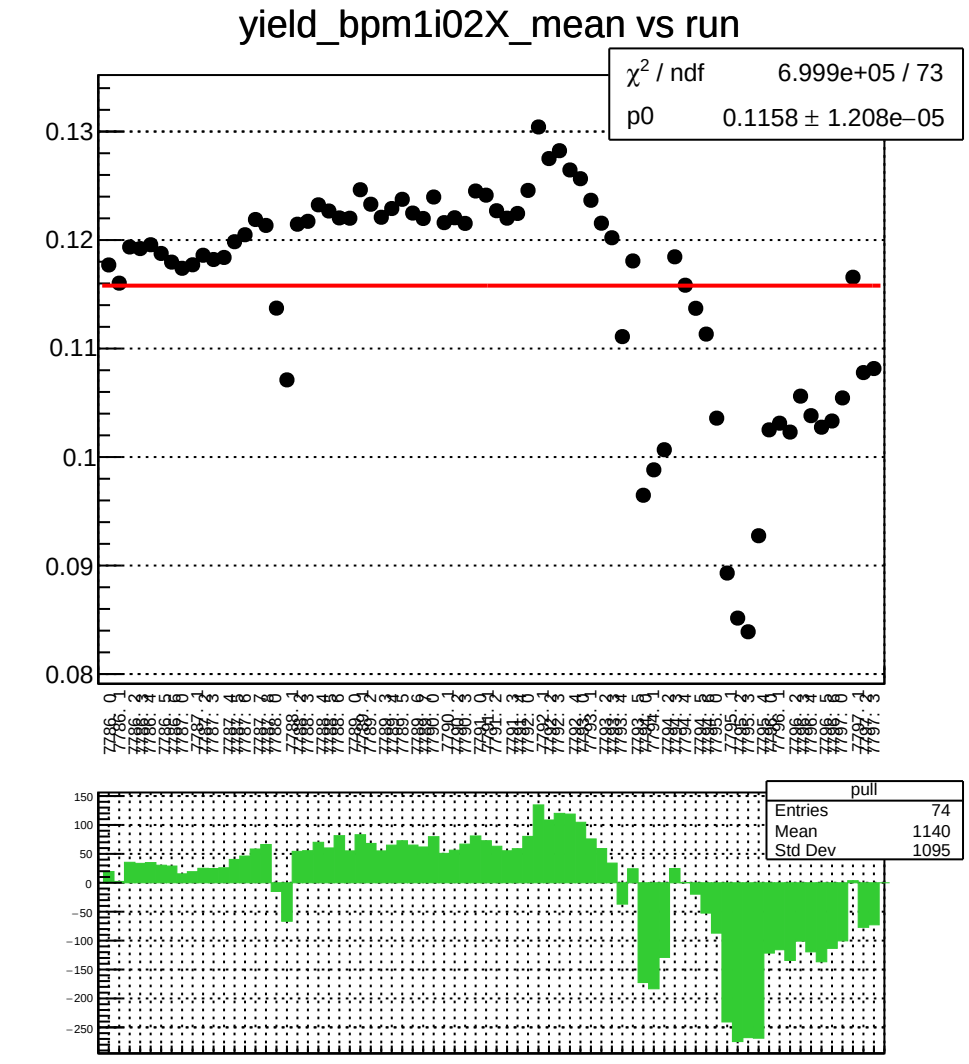

pull1D
Entries 74
Mean 2.588
Std Dev 3.757
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

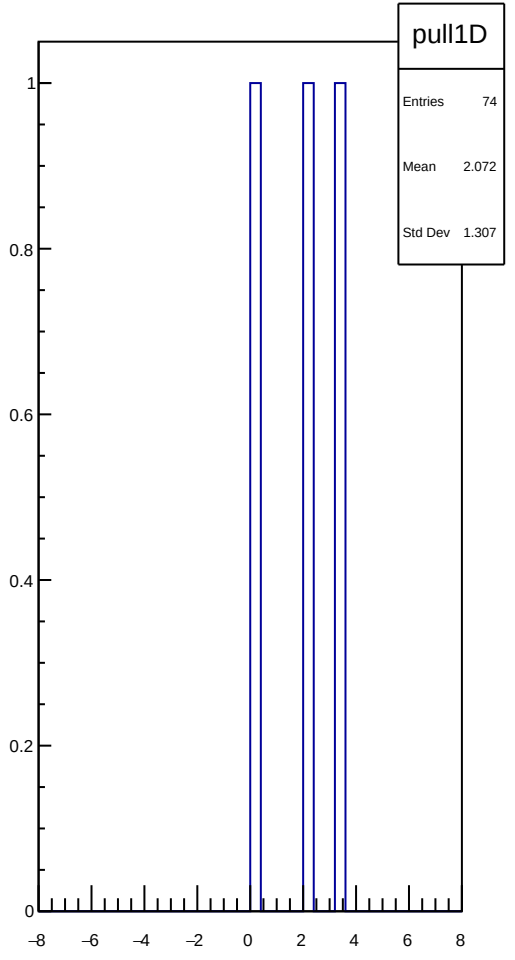

yield_bpm0i07X_rms vs run
χ² / ndf 3.75e+04 / 73
p0 0.002863 ± 2.42e−06
0.007
0.006
0.005
0.004
0.003
0.002

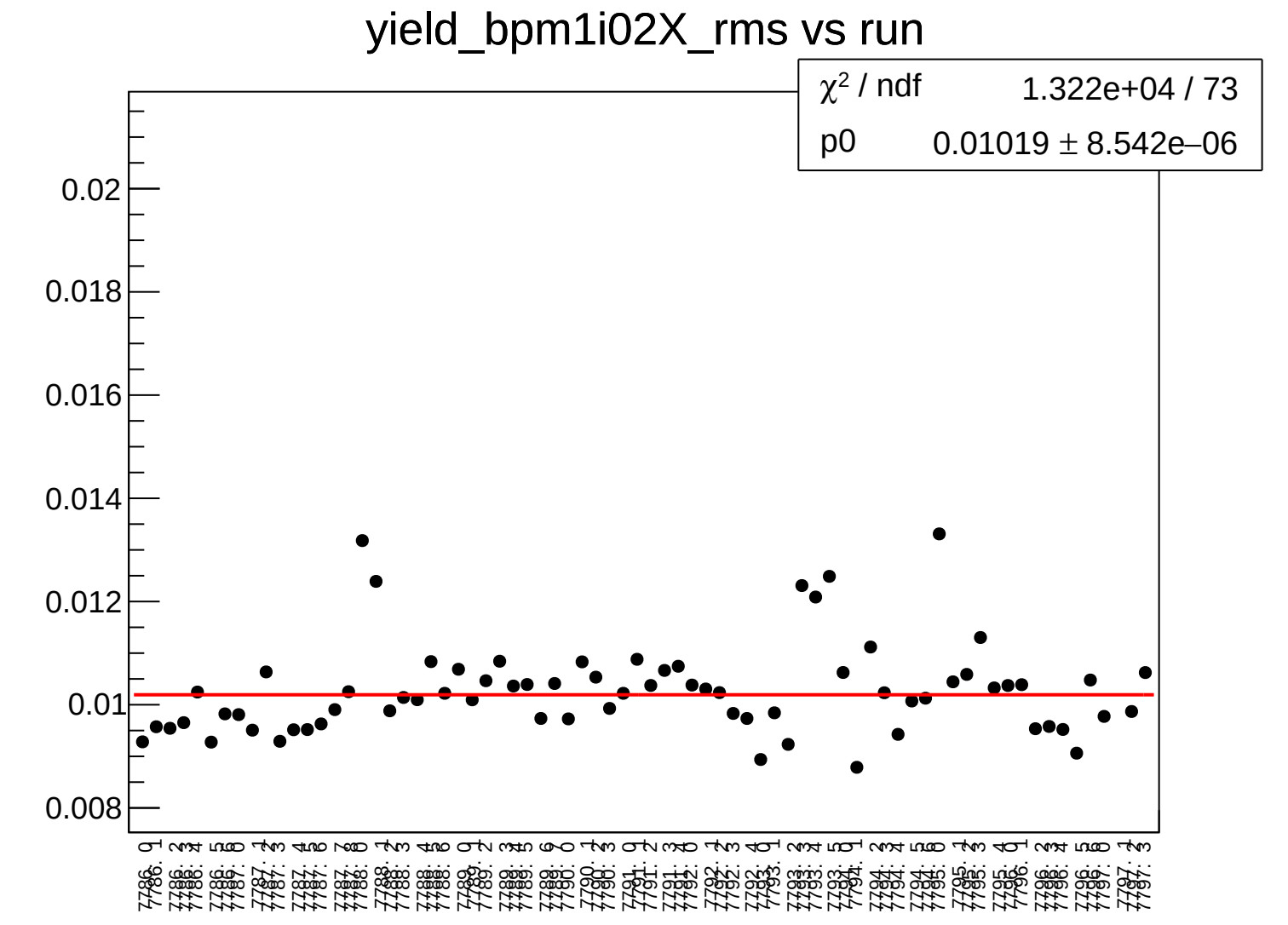

yield_bpm0i07Y_mean vs run
χ² / ndf 5.733e+06 / 73
p0 −0.772 ± 2.37e−06
−0.75
−0.755
−0.76
−0.765
−0.77
−0.775
−0.78
pull
Entries 74
Mean 109.7
Std Dev 72.34
1200
1000
800
600
400
200
0
−200
−400

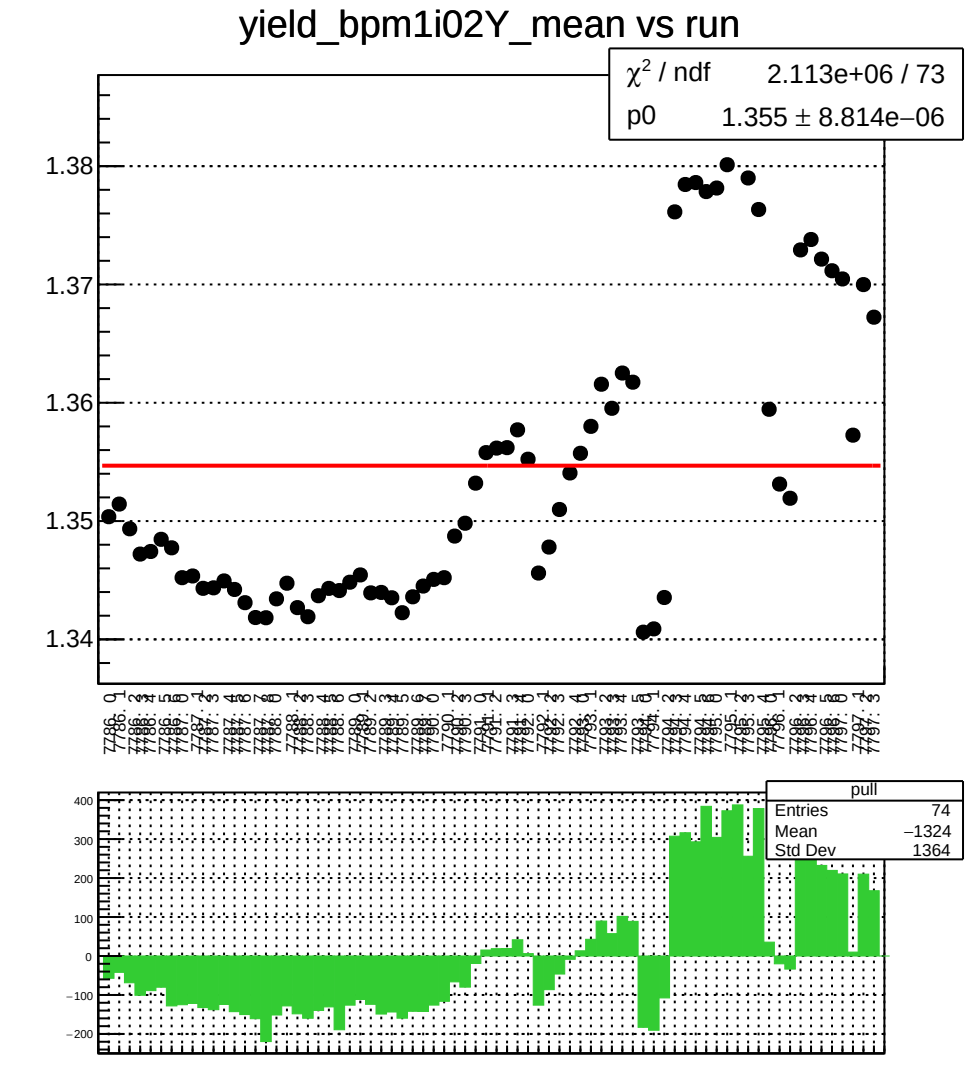

pull1D
Entries 74
Mean −2.515
Std Dev 0.5982
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

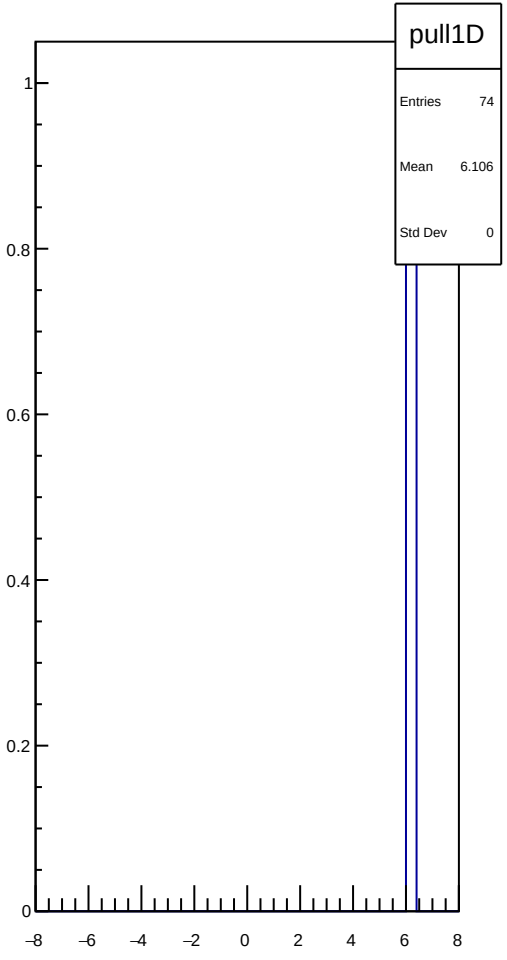

yield_bpm0i07Y_rms vs run
χ² / ndf 1.781e+05 / 73
p0 0.00188 ± 1.676e–06
0.01
0.008
0.006
0.004
0.002

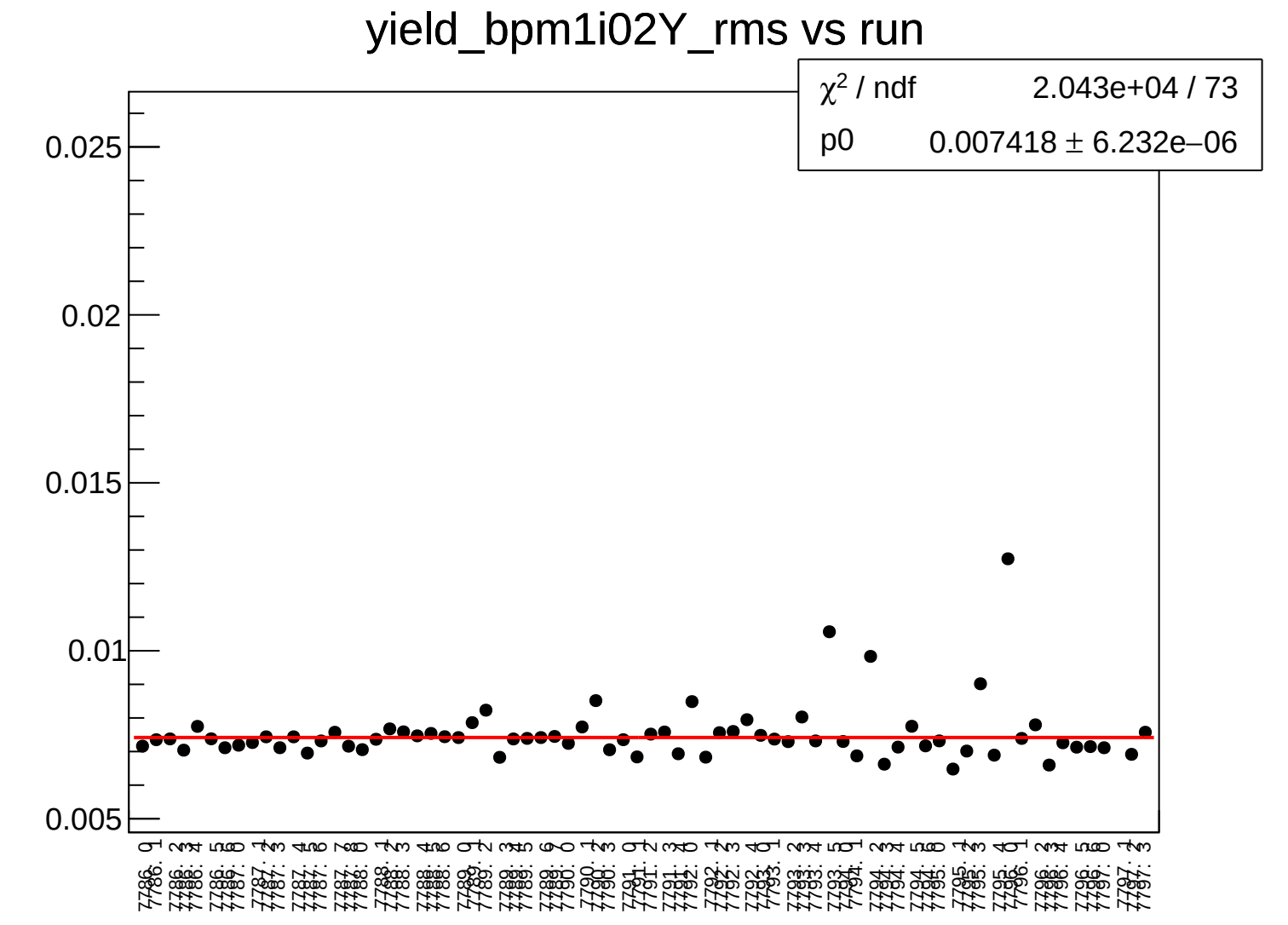

yield_bpm1i02X_mean vs run
χ² / ndf 6.999e+05 / 73
p0 0.1158 ± 1.208e−05
0.13
0.12
0.11
0.1
0.09
0.08
pull
Entries 74
Mean 1140
Std Dev 1095
150
100
50
0
−50
−100
−150
−200
−250

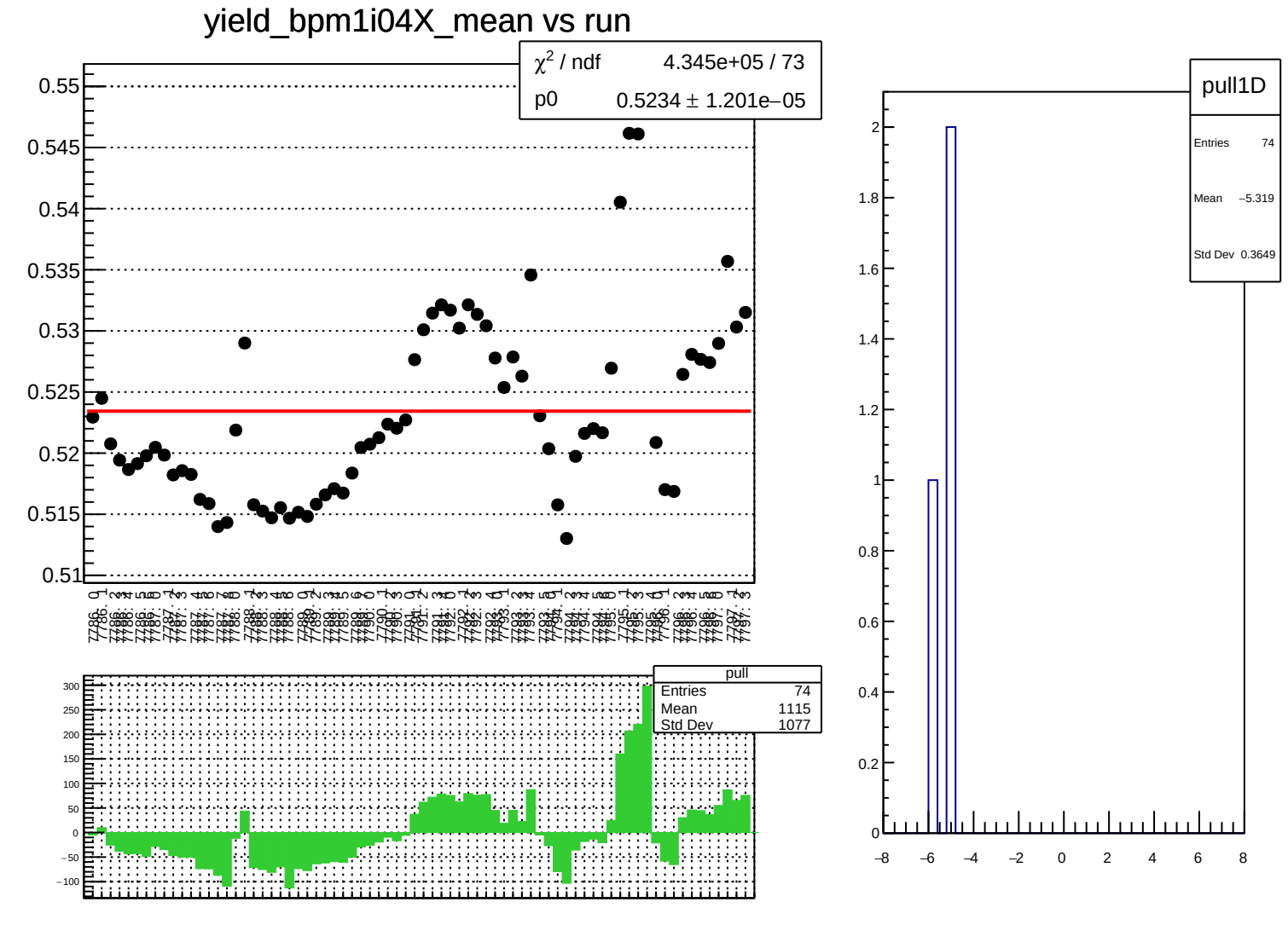

pull1D
Entries 74
Mean 2.072
Std Dev 1.307
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

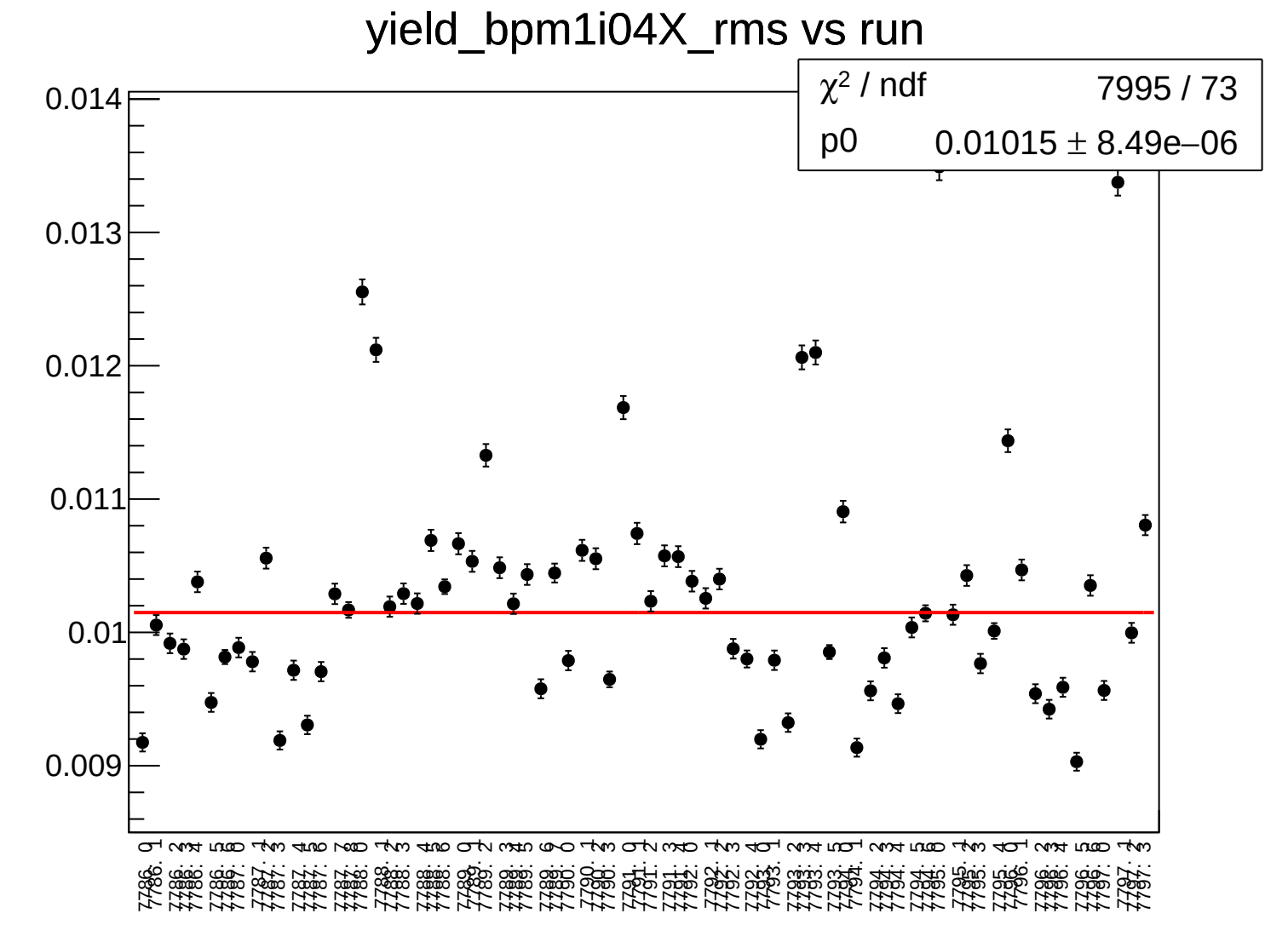

yield_bpm1i02X_rms vs run
χ² / ndf 1.322e+04 / 73
p0 0.01019 ± 8.542e–06
0.02
0.018
0.016
0.014
0.012
0.01
0.008

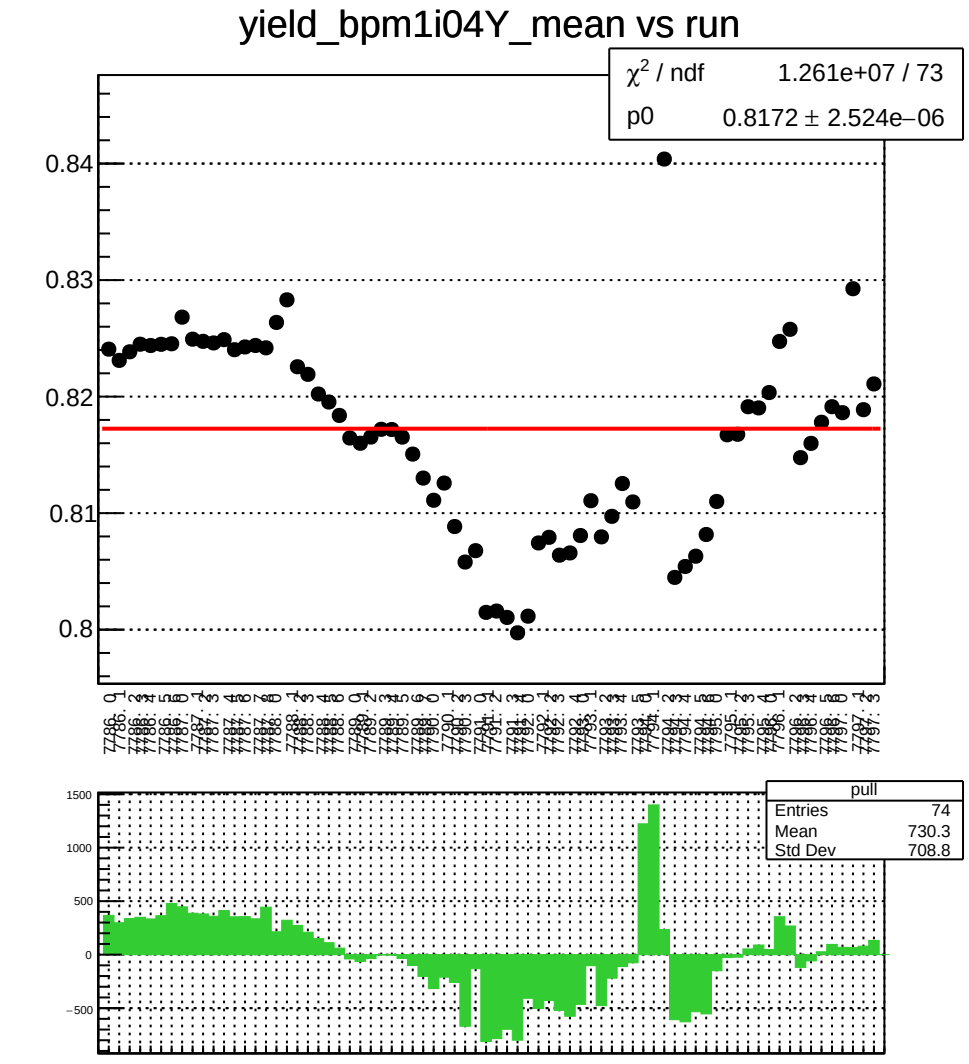

yield_bpm1i02Y_mean vs run
χ² / ndf 2.113e+06 / 73
p0 1.355 ± 8.814e−06
1.38
1.37
1.36
1.35
1.34
pull
Entries 74
Mean −1324
Std Dev 1364
400
300
200
100
0
−100
−200

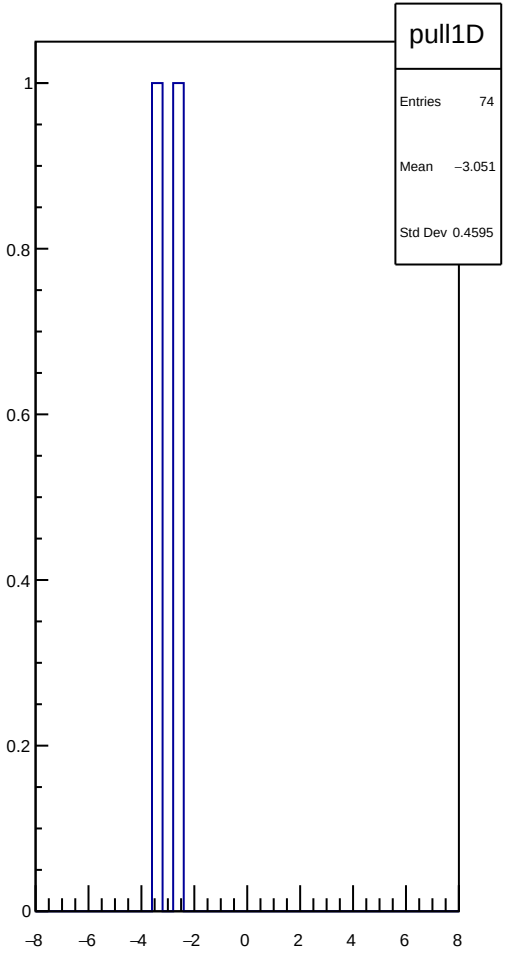

pull1D
Entries 74
Mean 6.106
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

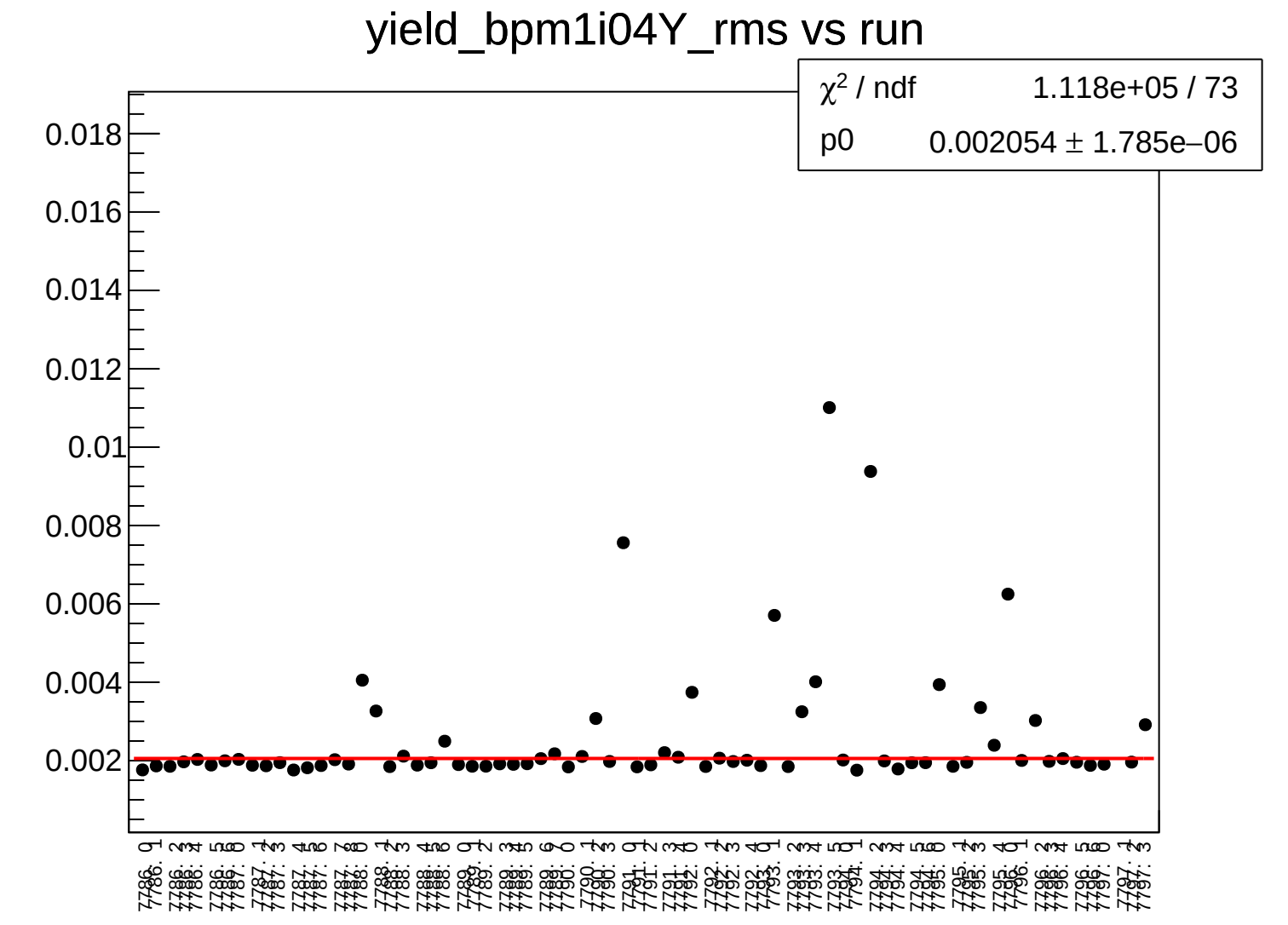

yield_bpm1i02Y_rms vs run
χ² / ndf 2.043e+04 / 73
p0 0.007418 ± 6.232e−06
0.025
0.02
0.015
0.01
0.005

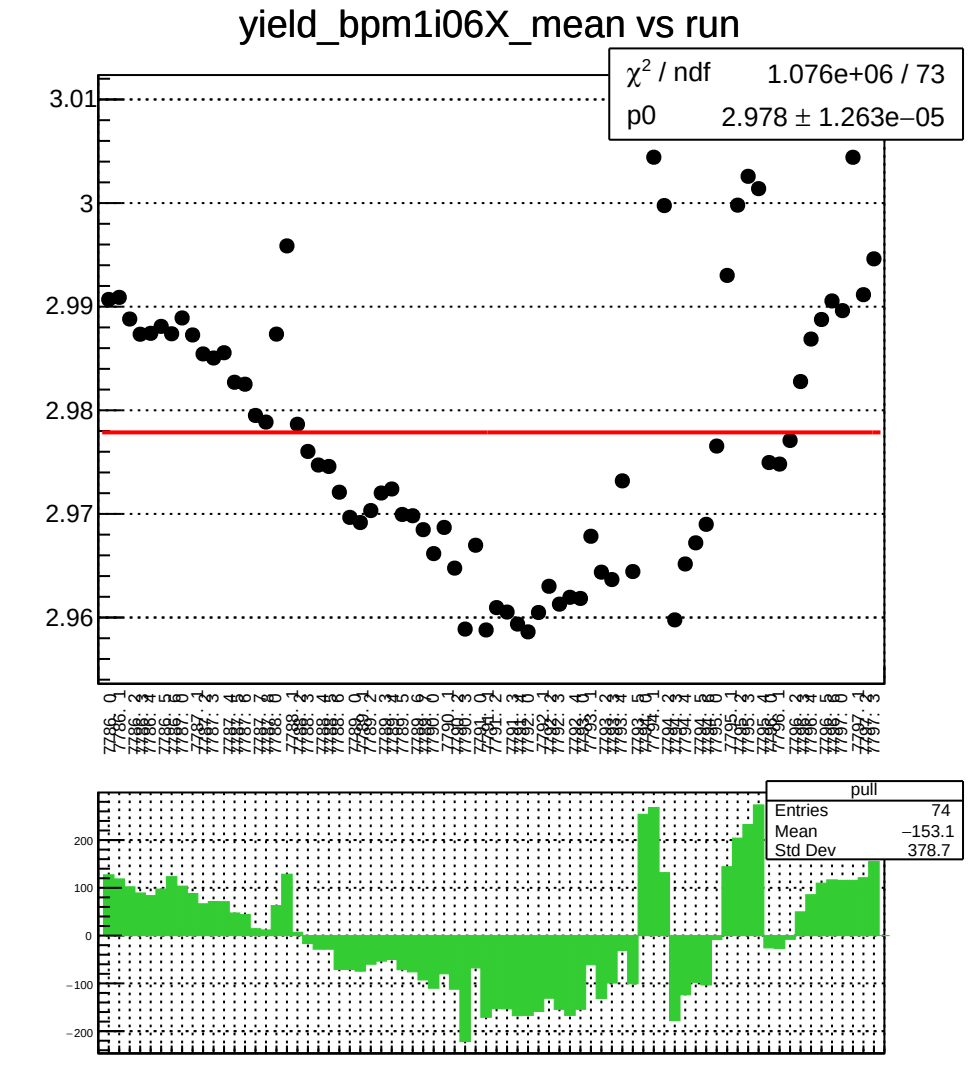

yield_bpm1i04X_mean vs run
χ² / ndf 4.345e+05 / 73
p0 0.5234 ± 1.201e−05
pull
Entries 74
Mean 1115
Std Dev 1077
pull1D
Entries 74
Mean −5.319
Std Dev 0.3649

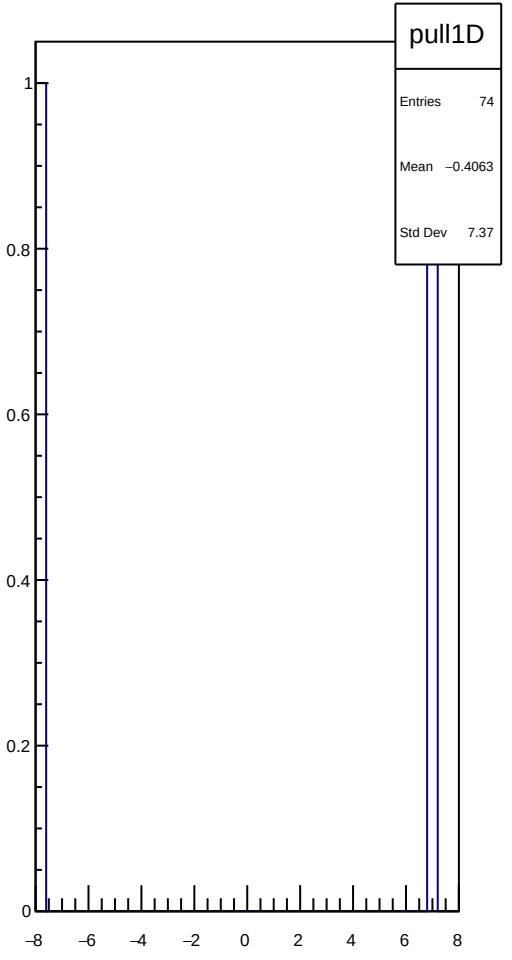

yield_bpm1i04X_rms vs run
χ² / ndf 7995 / 73
p0 0.01015 ± 8.49e−06
0.014
0.013
0.012
0.011
0.01
0.009

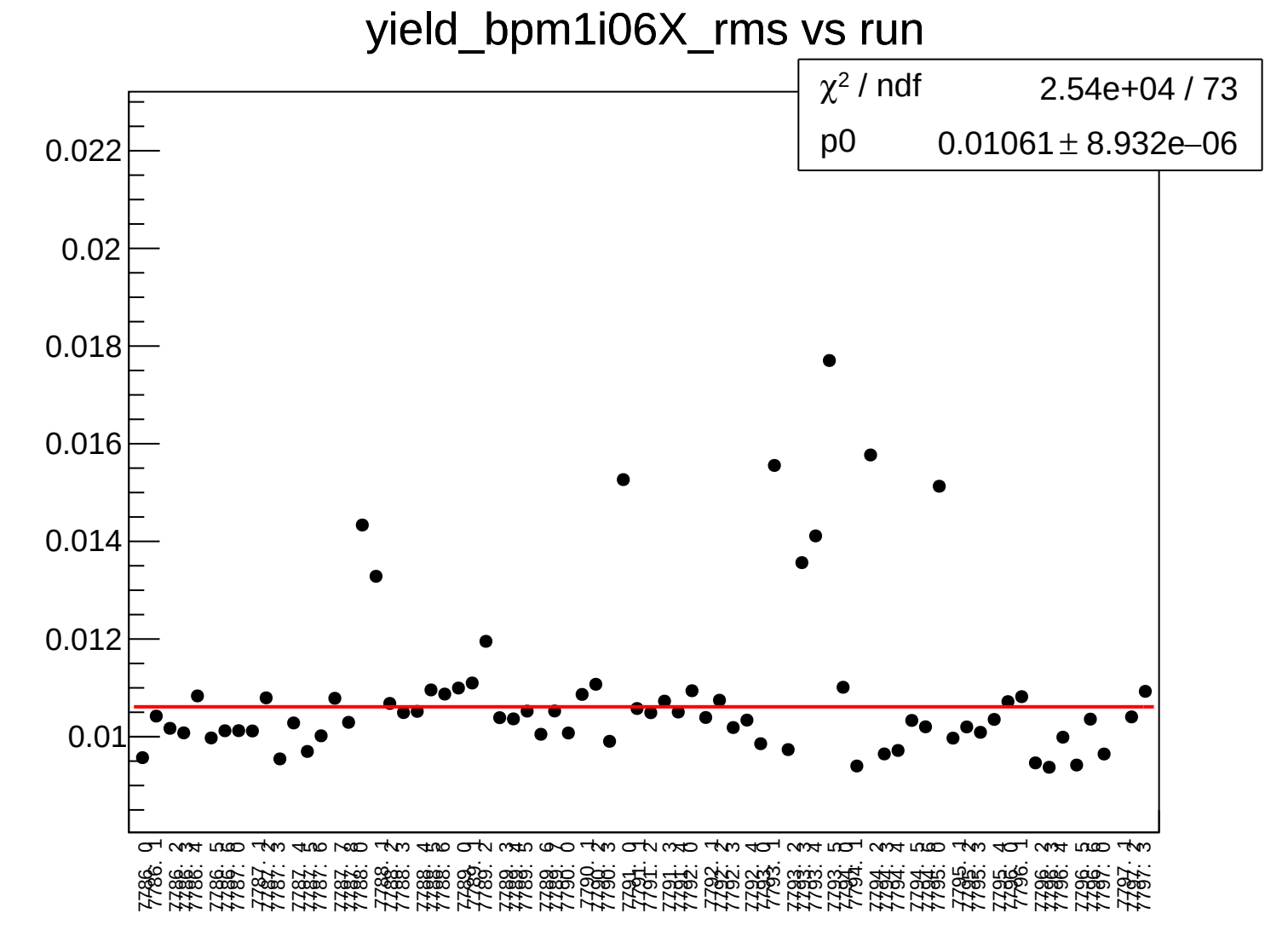

yield_bpm1i04Y_mean vs run
χ² / ndf 1.261e+07 / 73
p0 0.8172 ± 2.524e−06
0.84
0.83
0.82
0.81
0.8
pull
Entries 74
Mean 730.3
Std Dev 708.8
1500
1000
500
0
−500

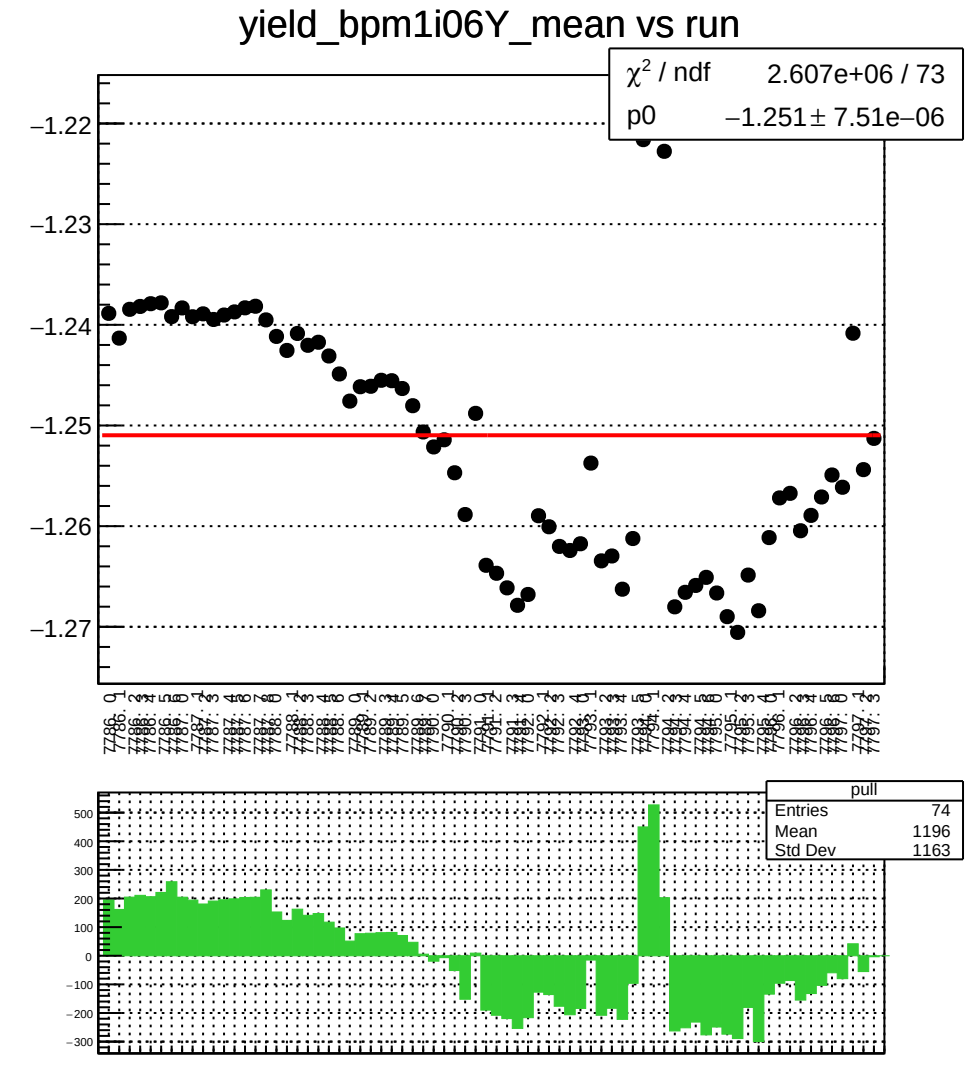

pull1D
Entries 74
Mean −3.051
Std Dev 0.4595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

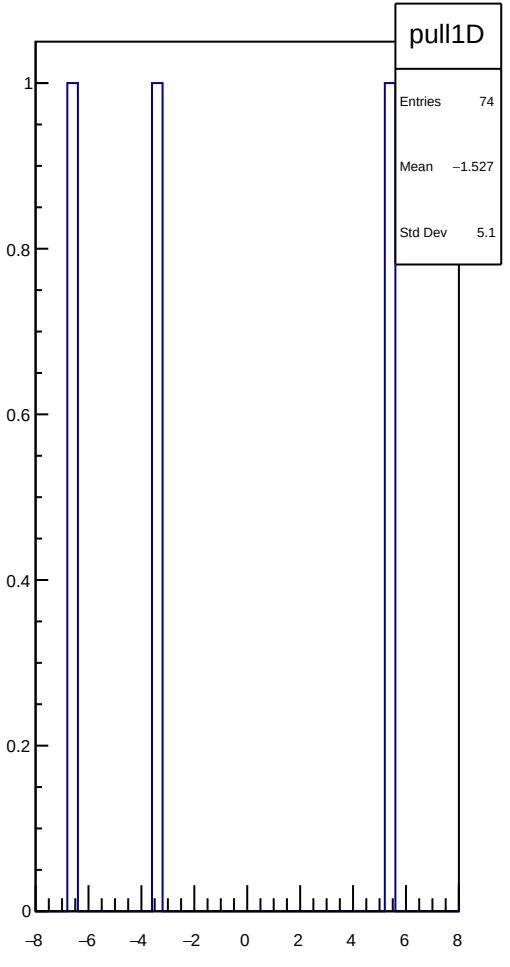

yield_bpm1i04Y_rms vs run
χ^2 / ndf 1.118e+05 / 73
p0 0.002054 ± 1.785e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

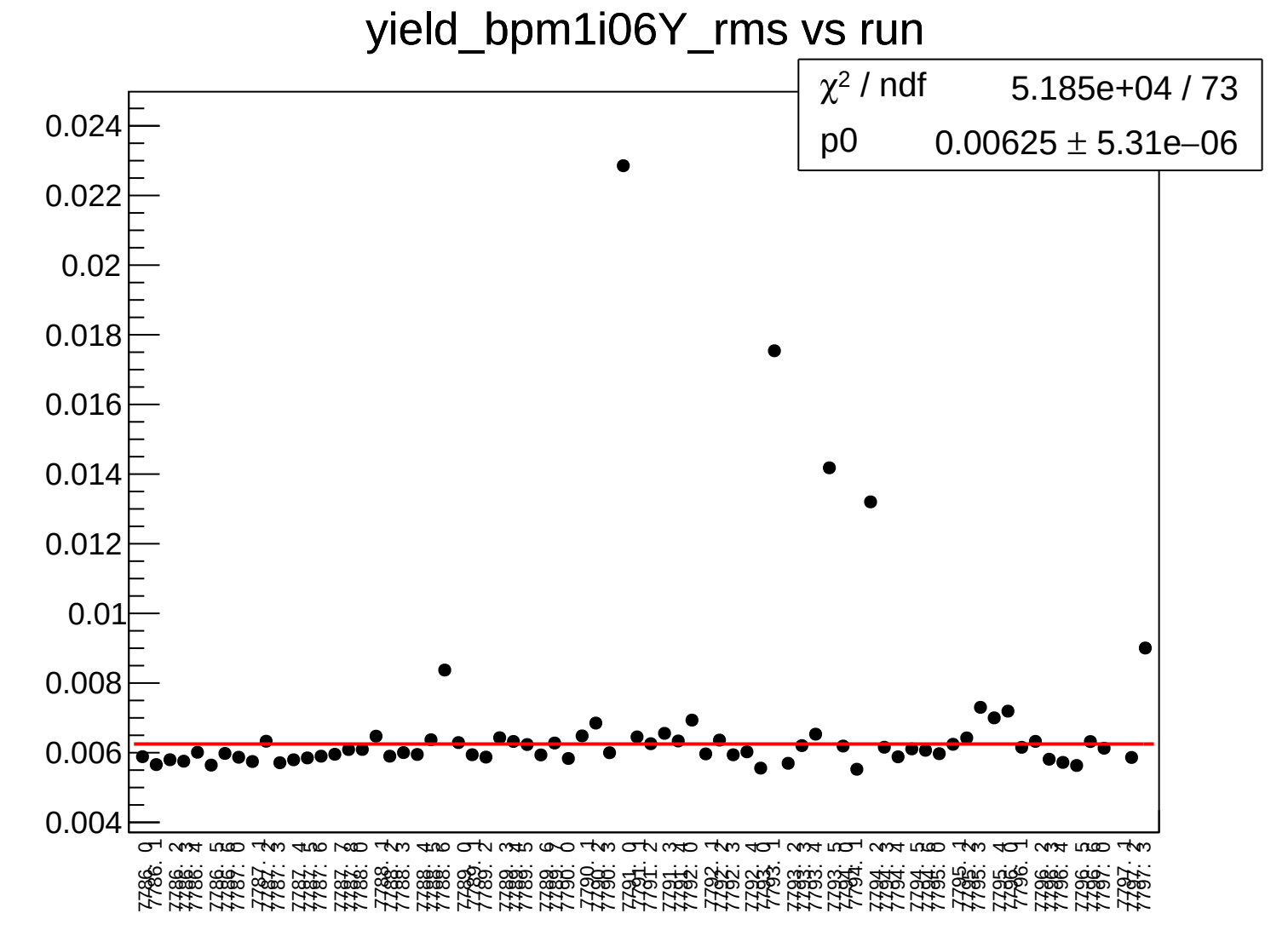

yield_bpm1i06X_mean vs run
χ² / ndf 1.076e+06 / 73
p0 2.978 ± 1.263e−05
3.01
3
2.99
2.98
2.97
2.96
pull
Entries 74
Mean −153.1
Std Dev 378.7
200
100
0
−100
−200

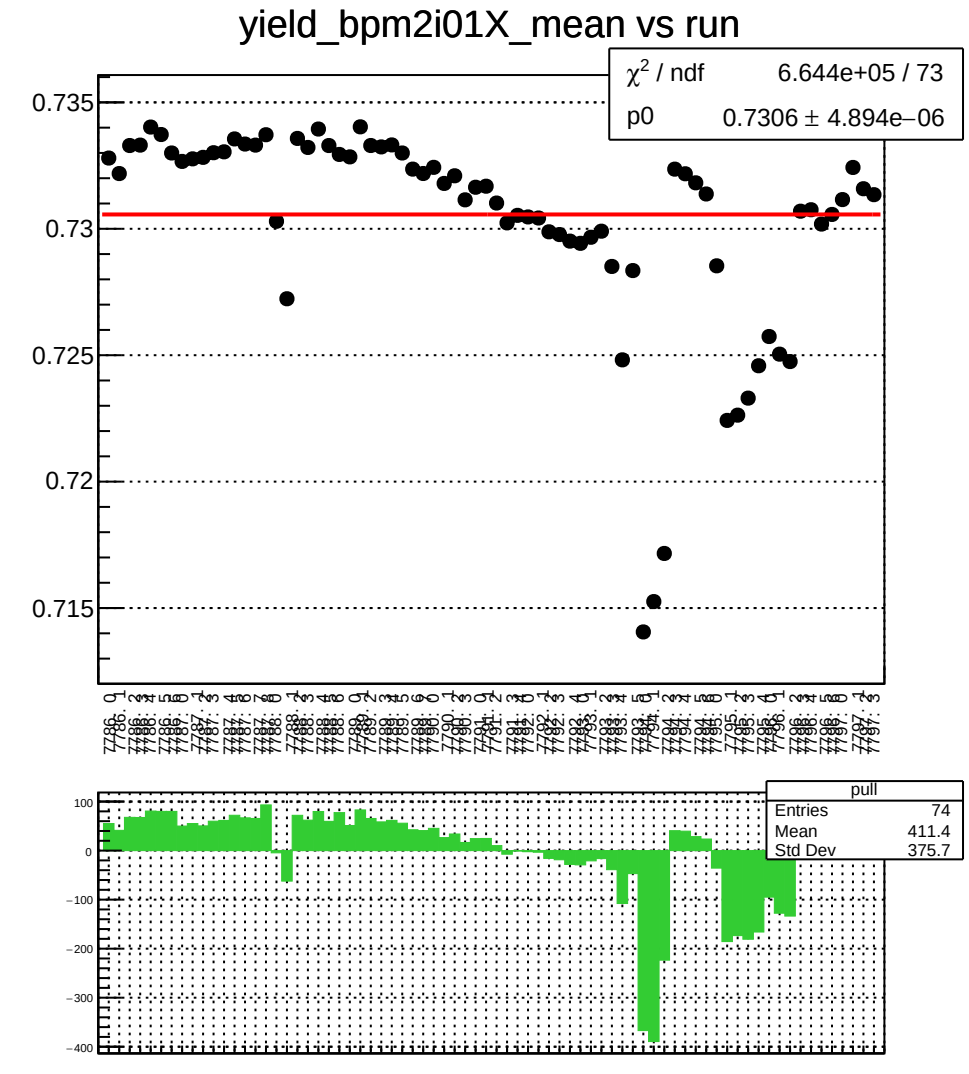

pull1D
Entries 74
Mean −0.4063
Std Dev 7.37
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

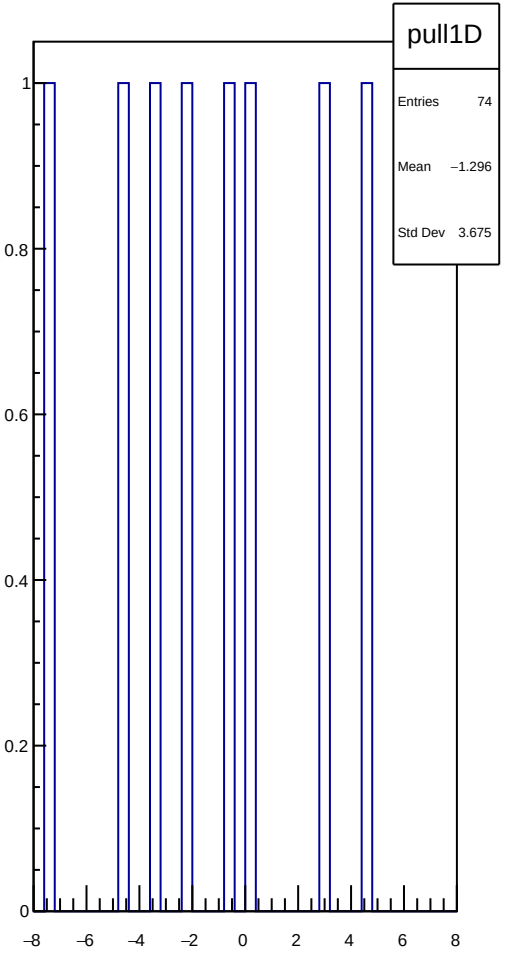

yield_bpm1i06X_rms vs run
χ² / ndf 2.54e+04 / 73
p0 0.01061 ± 8.932e–06
0.022
0.02
0.018
0.016
0.014
0.012
0.01

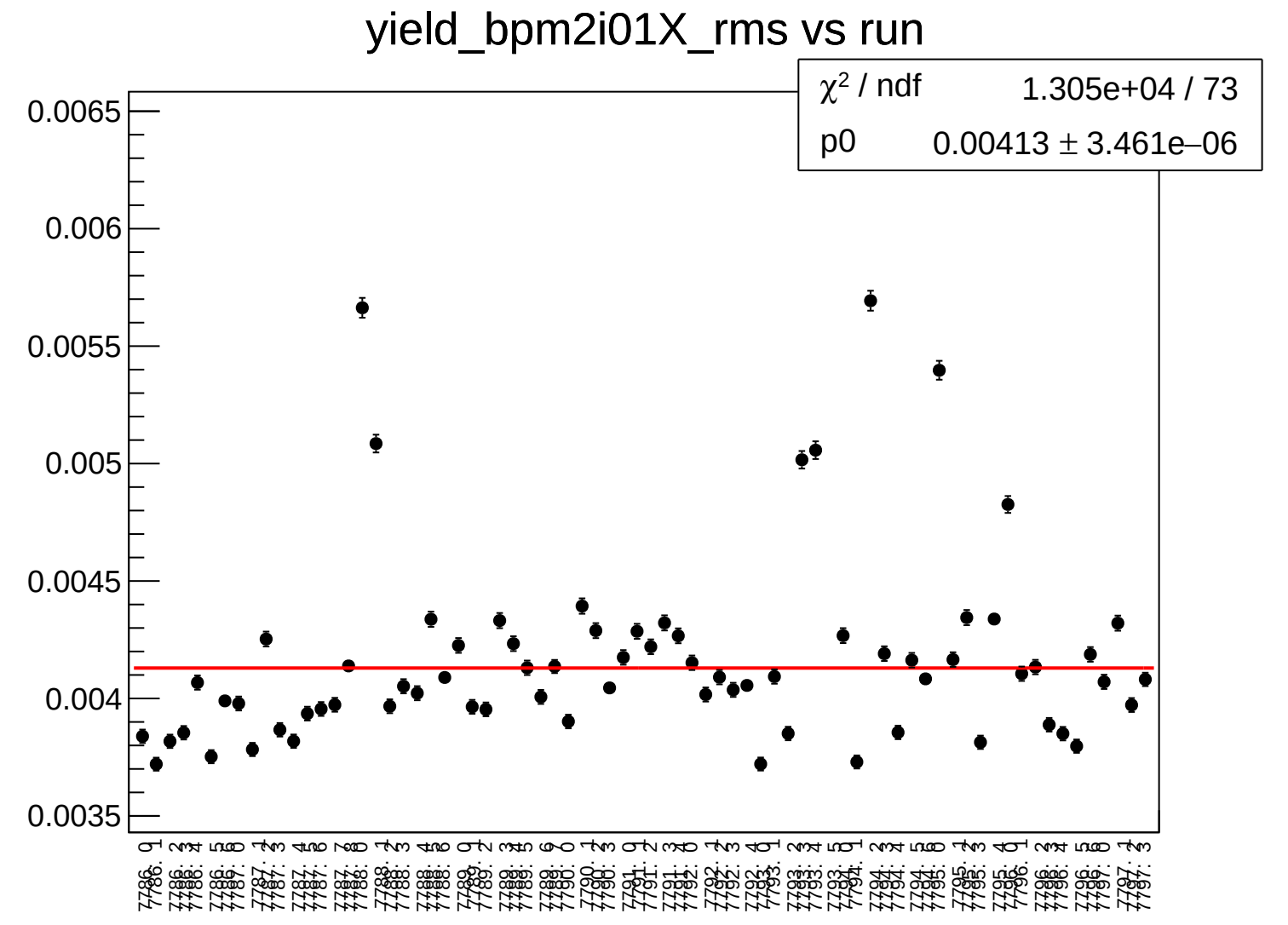

yield_bpm1i06Y_mean vs run
χ² / ndf 2.607e+06 / 73
p0 −1.251 ± 7.51e−06
−1.22
−1.23
−1.24
−1.25
−1.26
−1.27
pull
Entries 74
Mean 1196
Std Dev 1163
500
400
300
200
100
0
−100
−200
−300

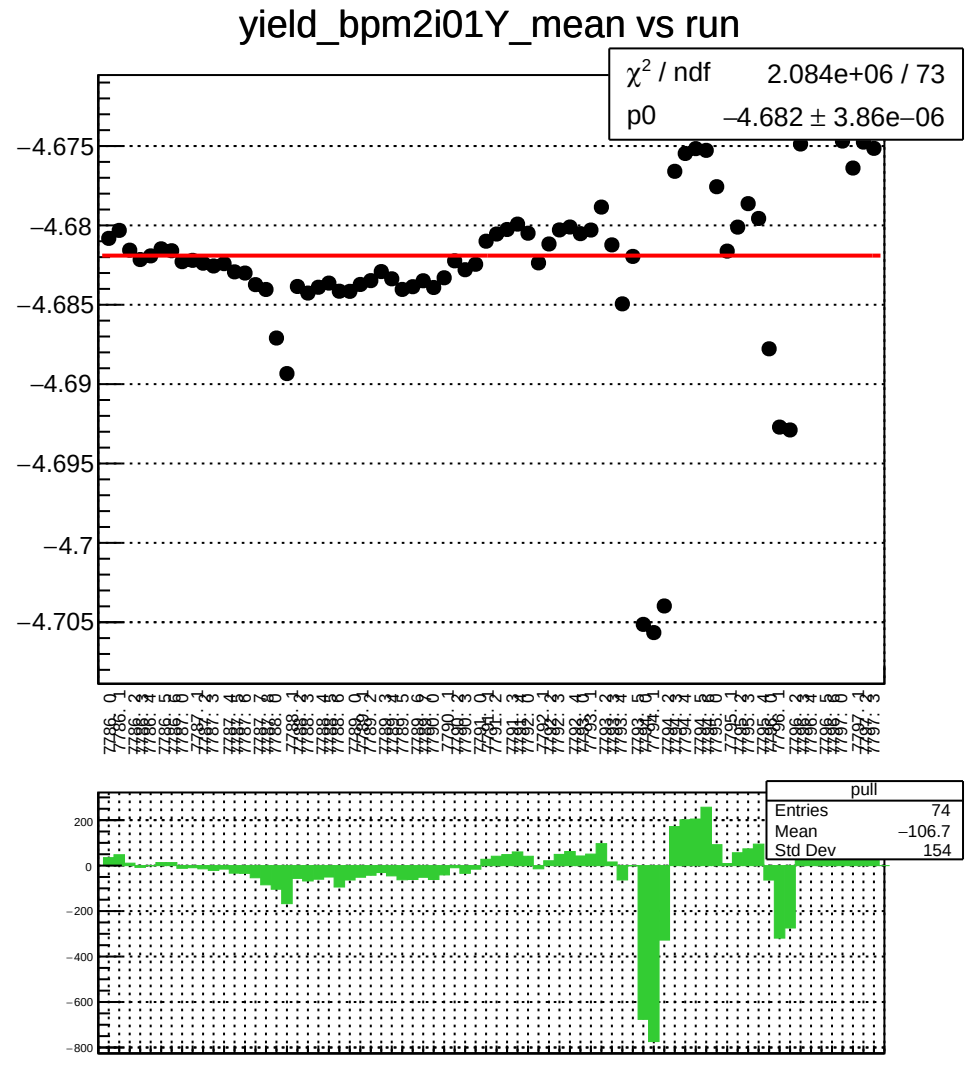

pull1D
Entries 74
Mean −1.527
Std Dev 5.1
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

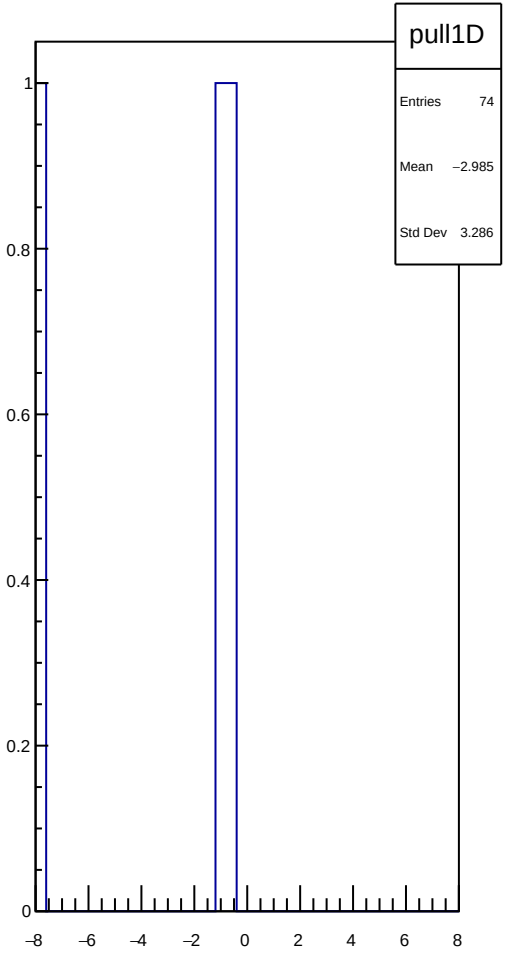

yield_bpm1i06Y_rms vs run
χ² / ndf 5.185e+04 / 73
p0 0.00625 ± 5.31e−06
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

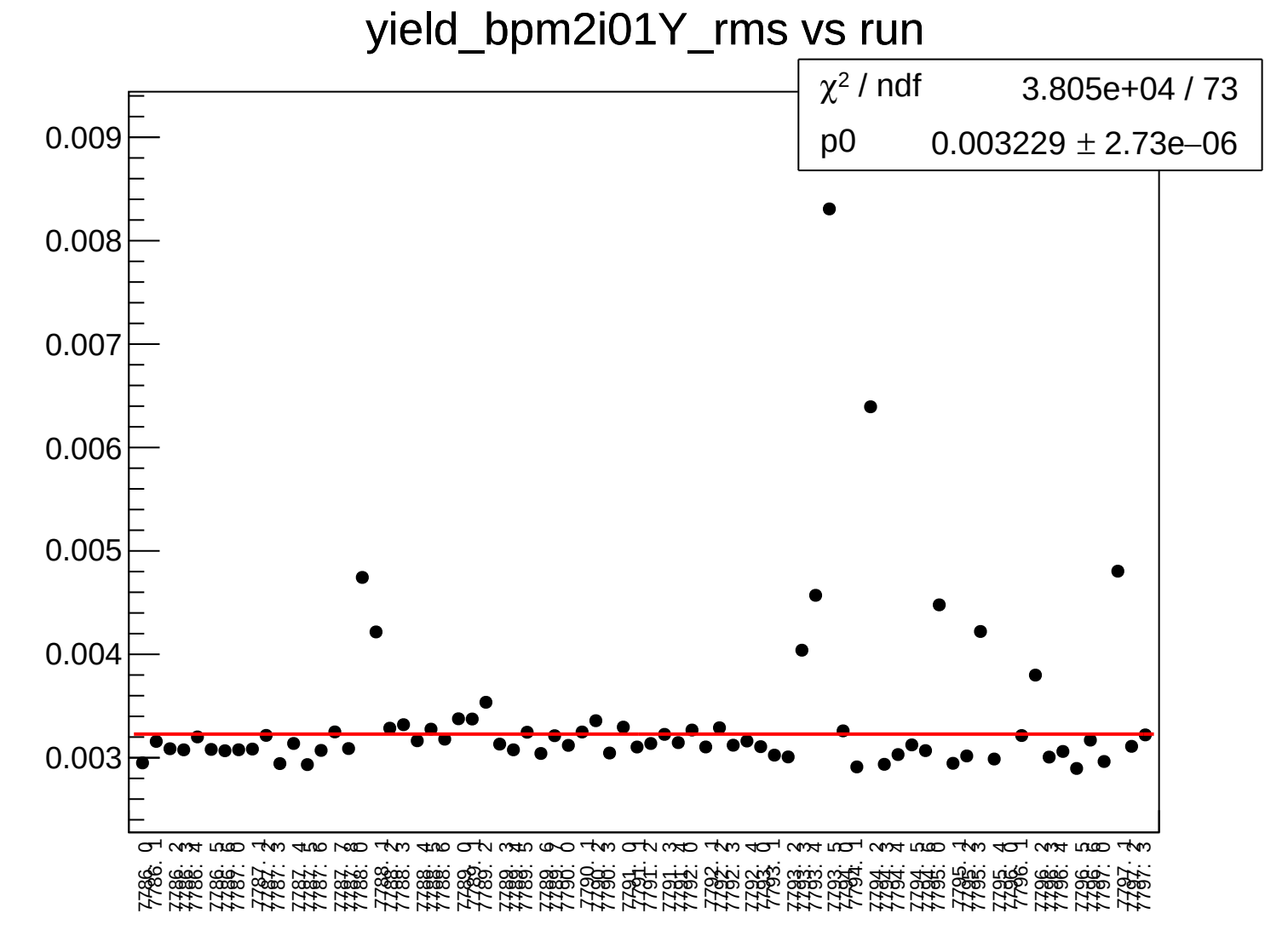

yield_bpm2i01X_mean vs run
χ² / ndf 6.644e+05 / 73
p0 0.7306 ± 4.894e−06
0.735
0.73
0.725
0.72
0.715
pull
Entries 74
Mean 411.4
Std Dev 375.7
100
0
−100
−200
−300
−400

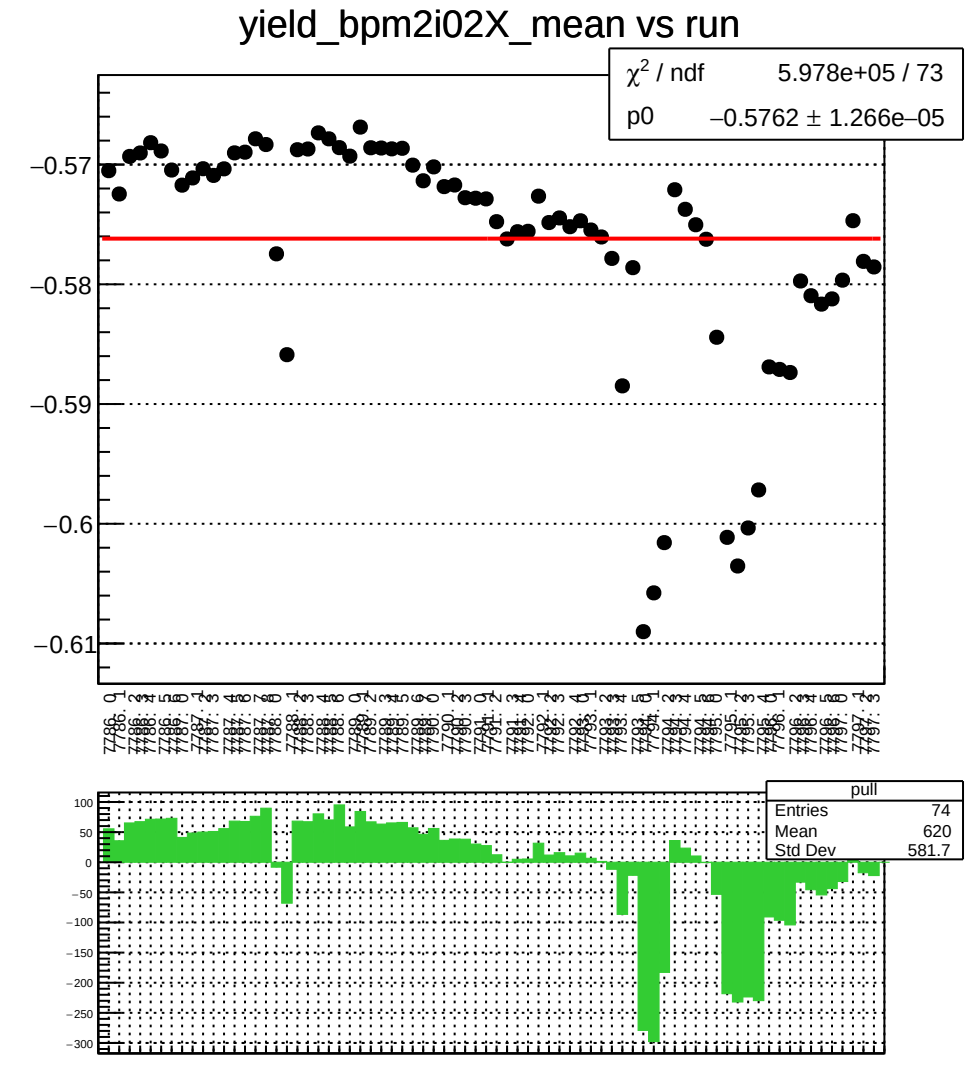

pull1D
Entries 74
Mean −1.296
Std Dev 3.675
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

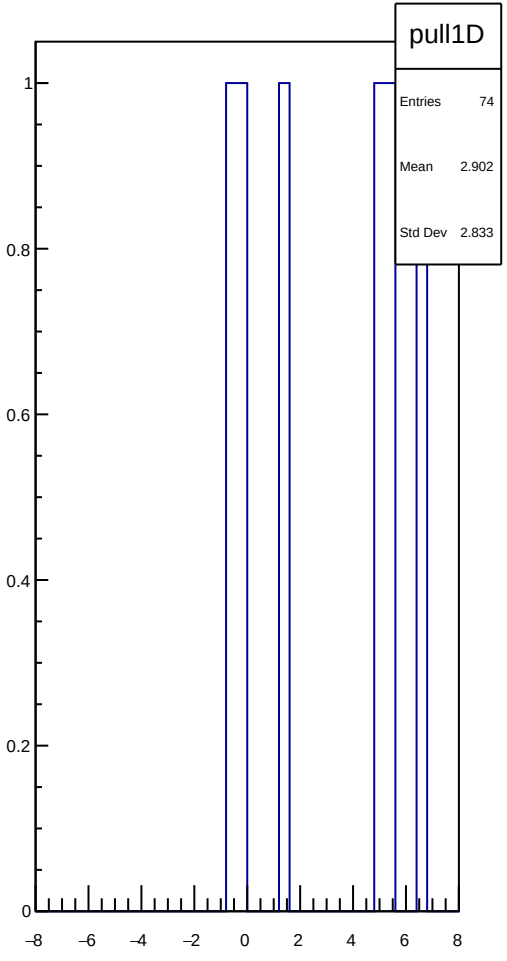

yield_bpm2i01X_rms vs run
χ² / ndf 1.305e+04 / 73
p0 0.00413 ± 3.461e–06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035

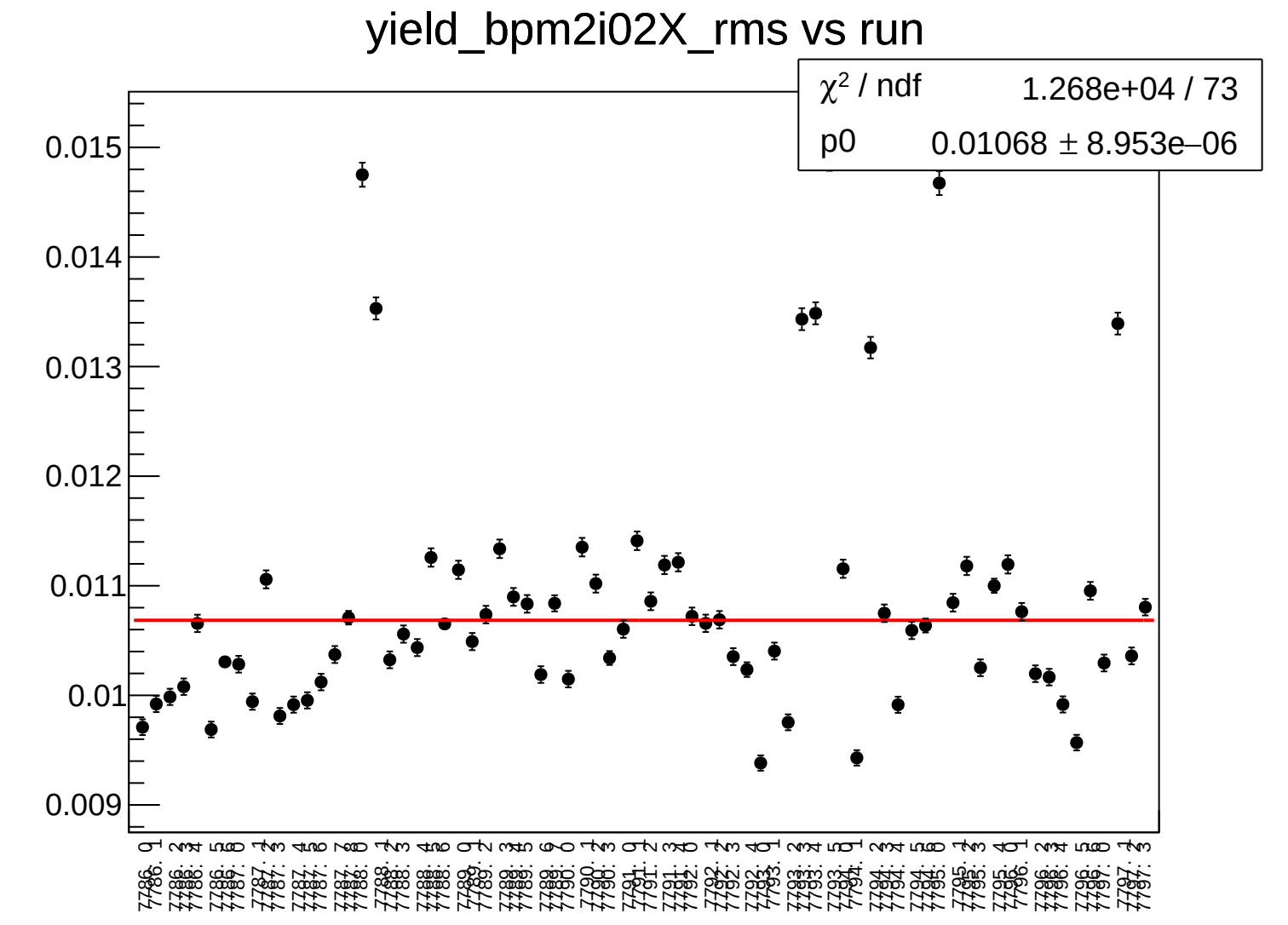

yield_bpm2i01Y_mean vs run
χ² / ndf 2.084e+06 / 73
p0 −4.682 ± 3.86e−06
−4.675
−4.68
−4.685
−4.69
−4.695
−4.7
−4.705
pull
Entries 74
Mean −106.7
Std Dev 154
200
0
−200
−400
−600
−800

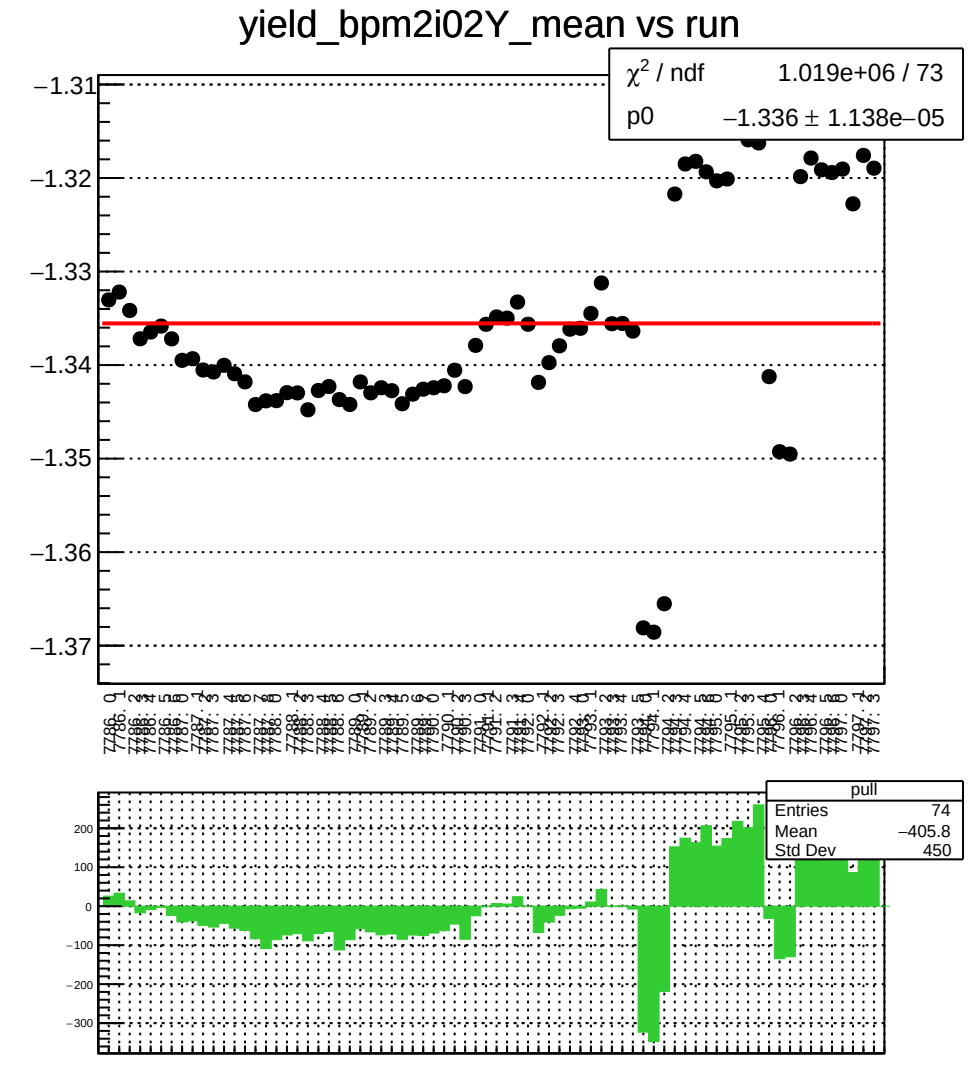

pull1D
Entries 74
Mean −2.985
Std Dev 3.286
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

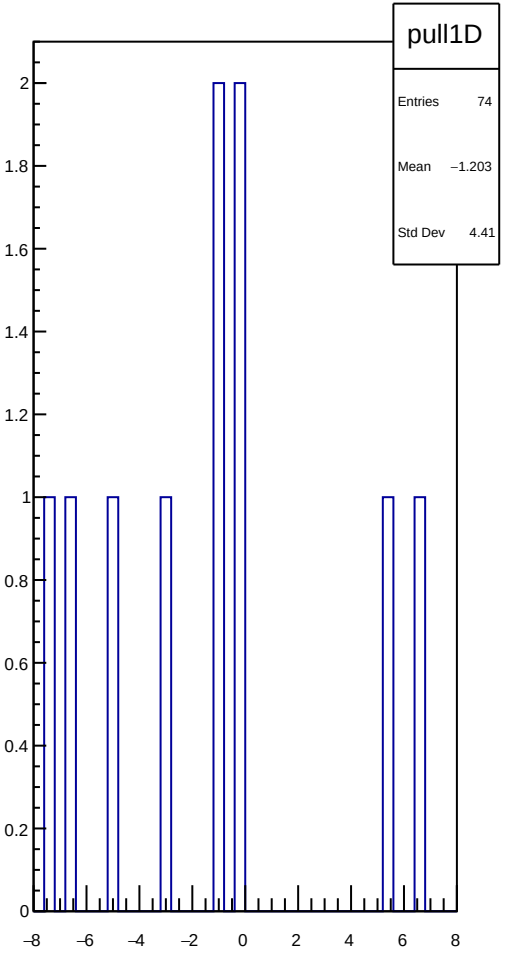

yield_bpm2i01Y_rms vs run
χ² / ndf 3.805e+04 / 73
p0 0.003229 ± 2.73e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

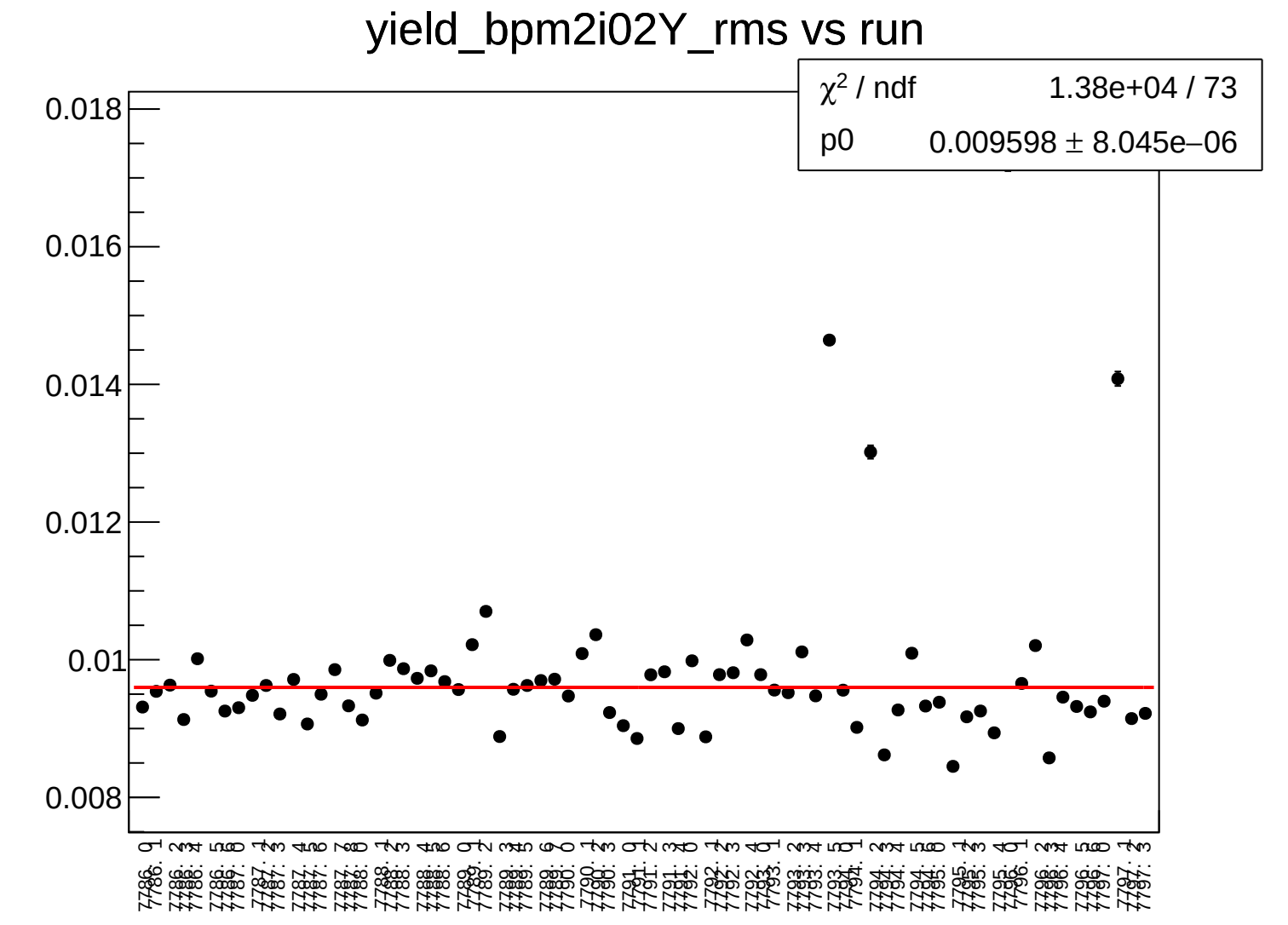

yield_bpm2i02X_mean vs run
χ² / ndf 5.978e+05 / 73
p0 −0.5762 ± 1.266e−05
−0.57
−0.58
−0.59
−0.6
−0.61
pull
Entries 74
Mean 620
Std Dev 581.7
100
50
0
−50
−100
−150
−200
−250
−300

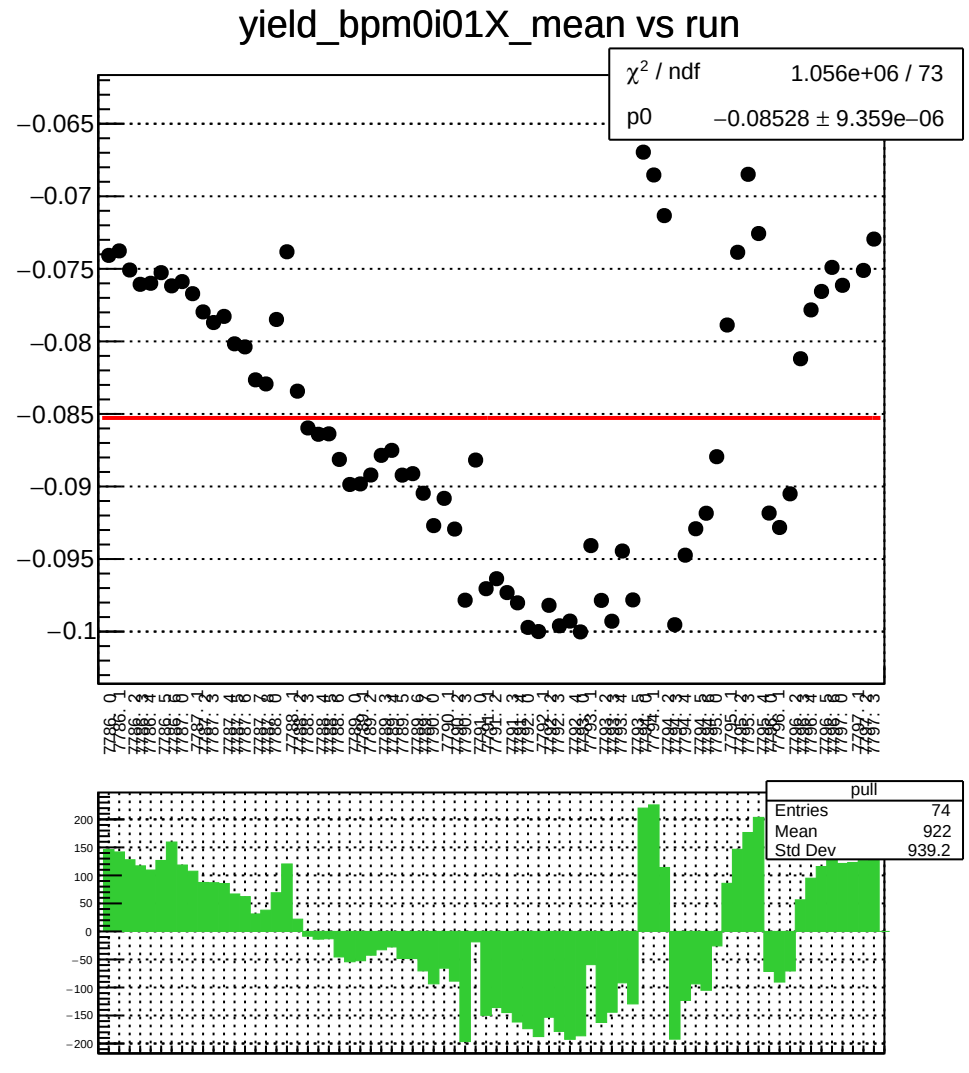

pull1D
Entries 74
Mean 2.902
Std Dev 2.833
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

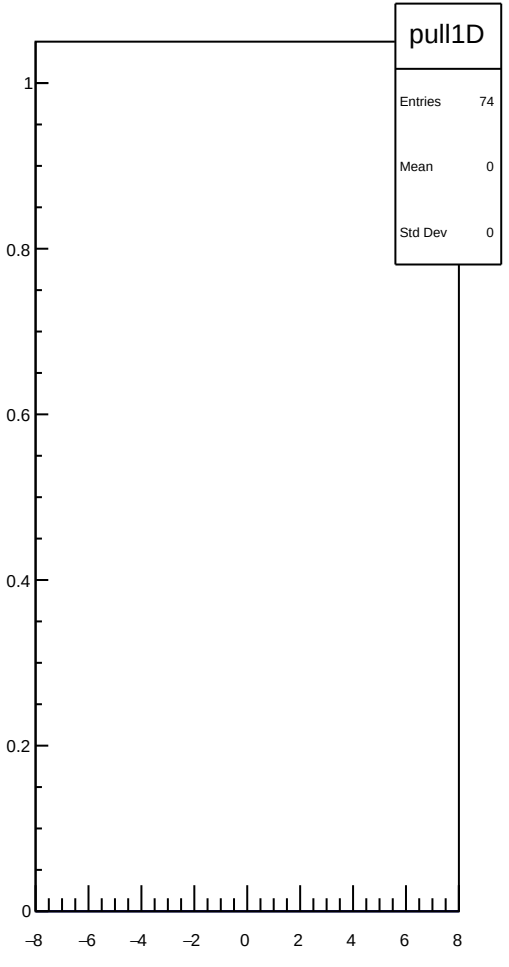

yield_bpm2i02X_rms vs run
χ² / ndf 1.268e+04 / 73
p0 0.01068 ± 8.953e–06
0.015
0.014
0.013
0.012
0.011
0.01
0.009

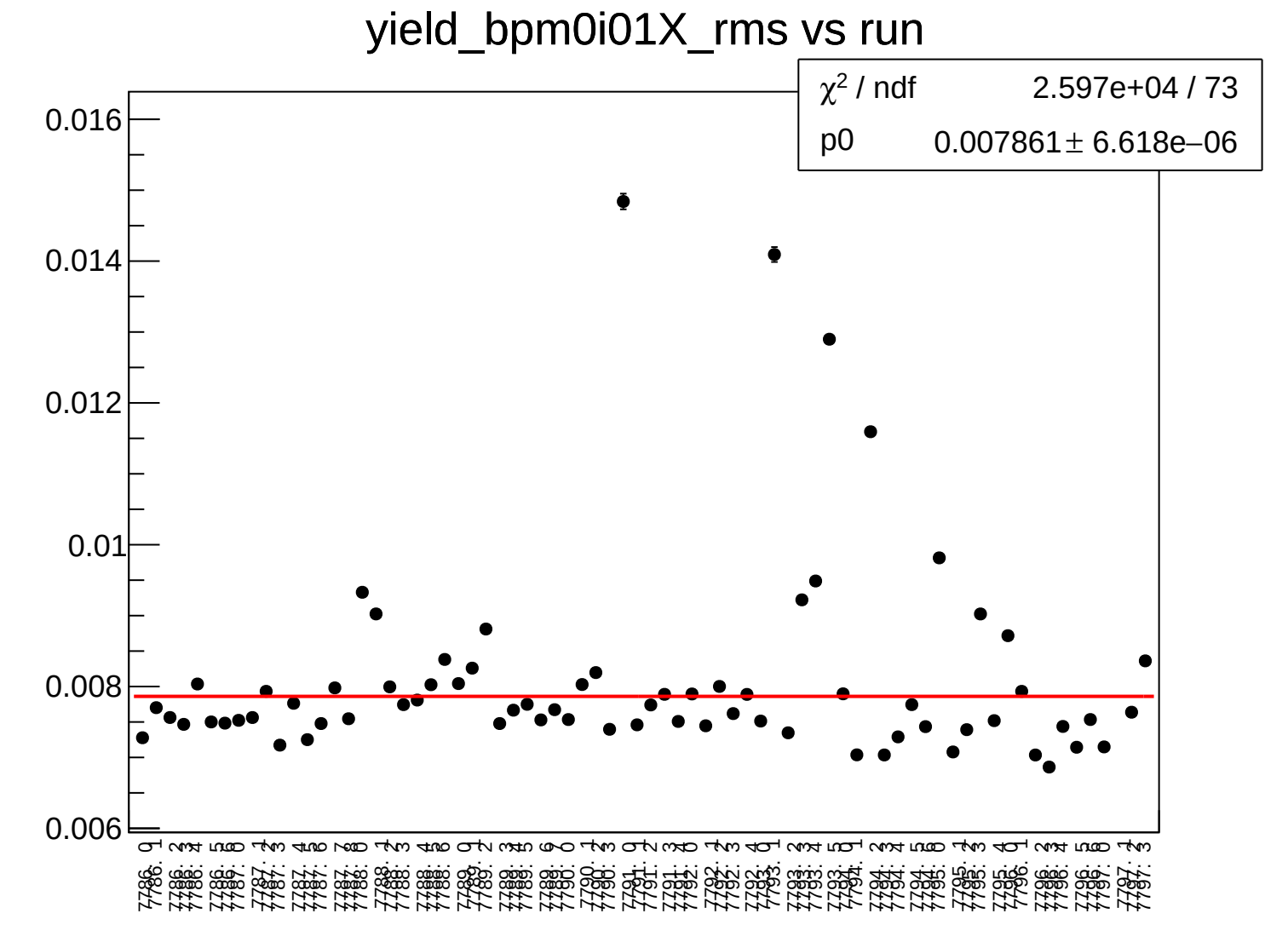

yield_bpm2i02Y_mean vs run
χ² / ndf 1.019e+06 / 73
p0 −1.336 ± 1.138e−05
−1.31
−1.32
−1.33
−1.34
−1.35
−1.36
−1.37
pull
Entries 74
Mean −405.8
Std Dev 450
200
100
0
−100
−200
−300

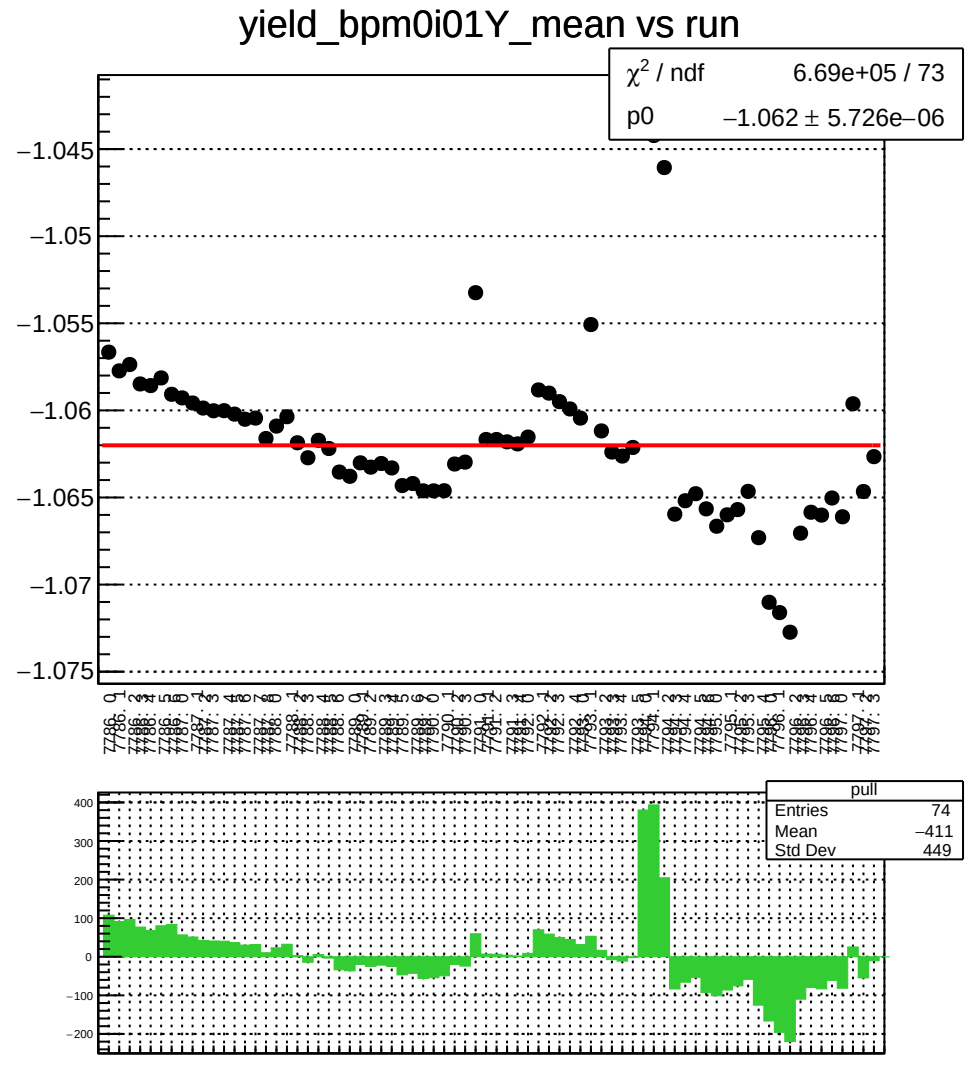

pull1D
Entries 74
Mean −1.203
Std Dev 4.41
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

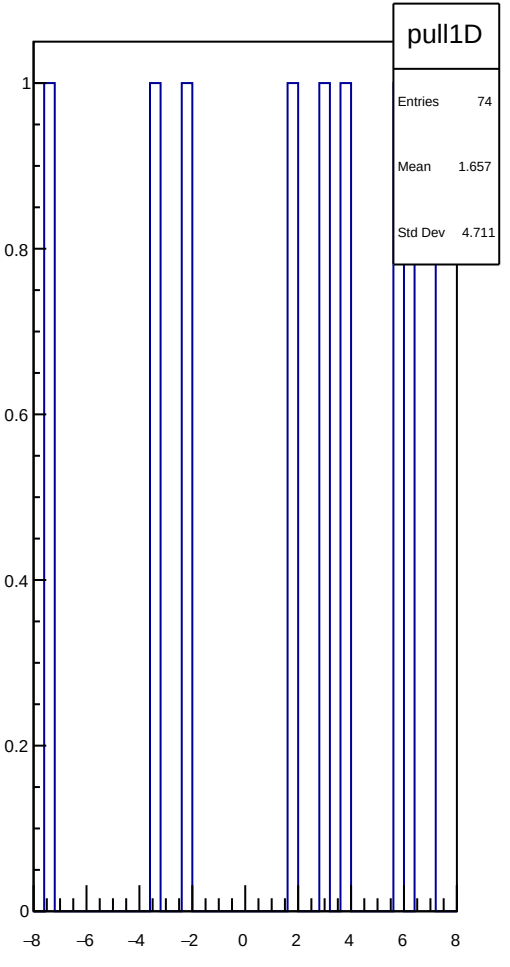

yield_bpm2i02Y_rms vs run
χ^2 / ndf 1.38e+04 / 73
p0 0.009598 ± 8.045e−06
0.018
0.016
0.014
0.012
0.01
0.008

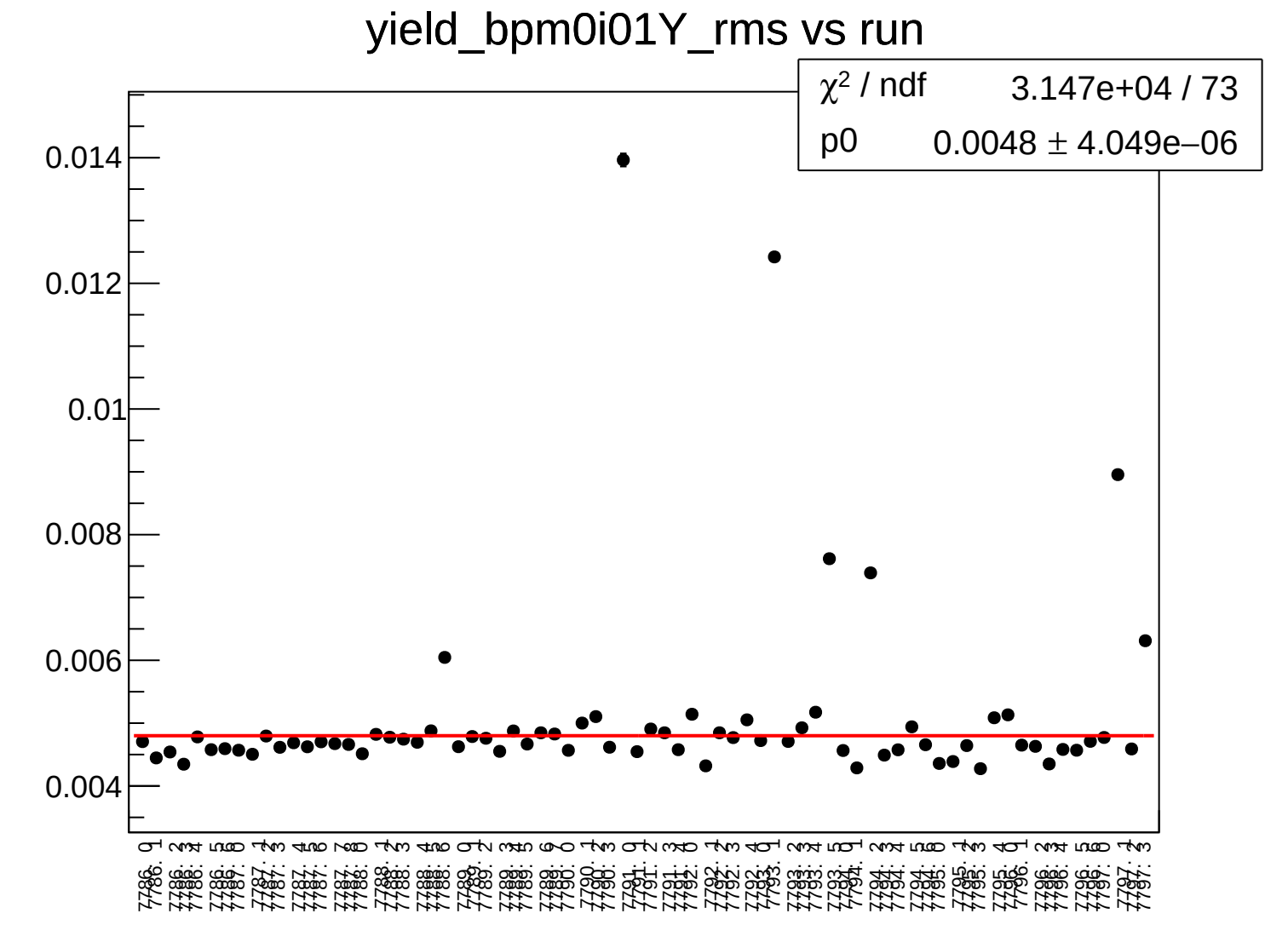

yield_bpm0i01X_mean vs run
χ² / ndf 1.056e+06 / 73
p0 −0.08528 ± 9.359e−06
−0.065
−0.07
−0.075
−0.08
−0.085
−0.09
−0.095
−0.1
pull
Entries 74
Mean 922
Std Dev 939.2
200
150
100
50
0
−50
−100
−150
−200

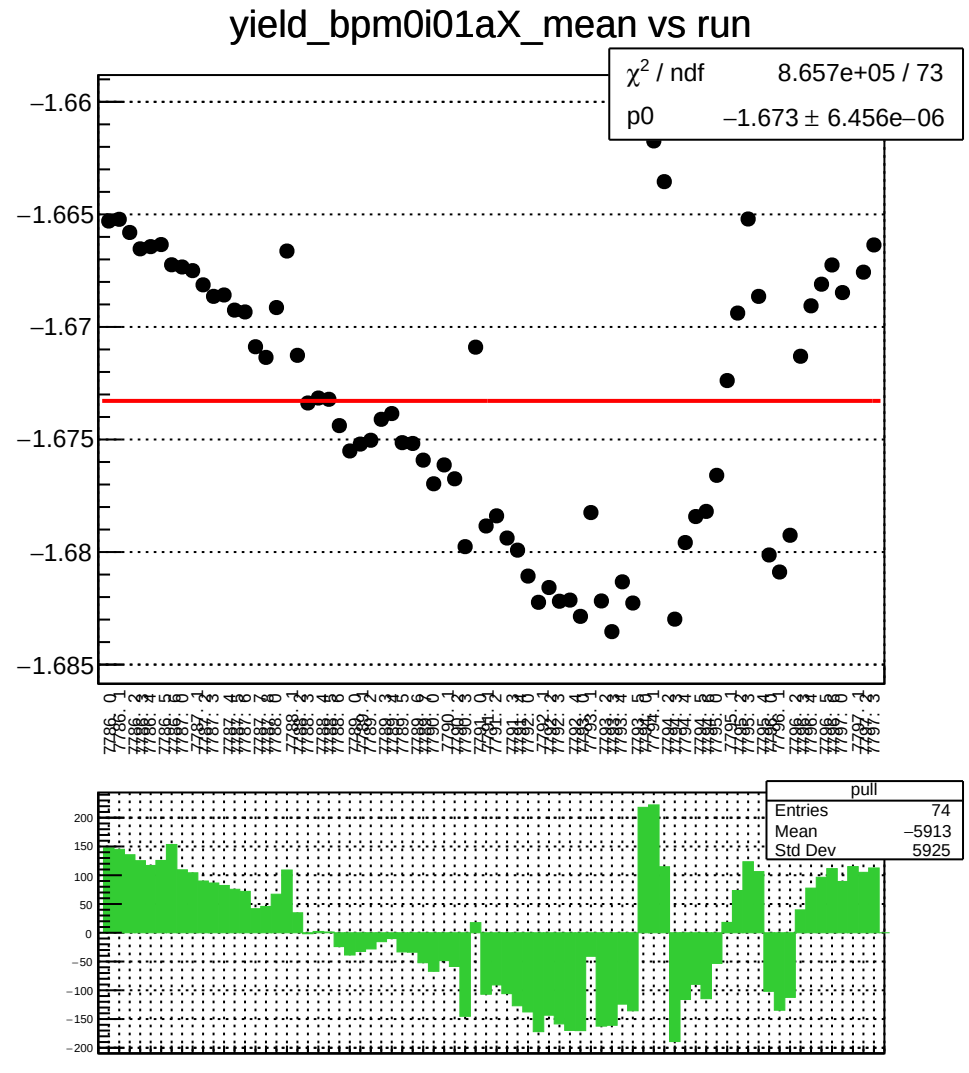

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

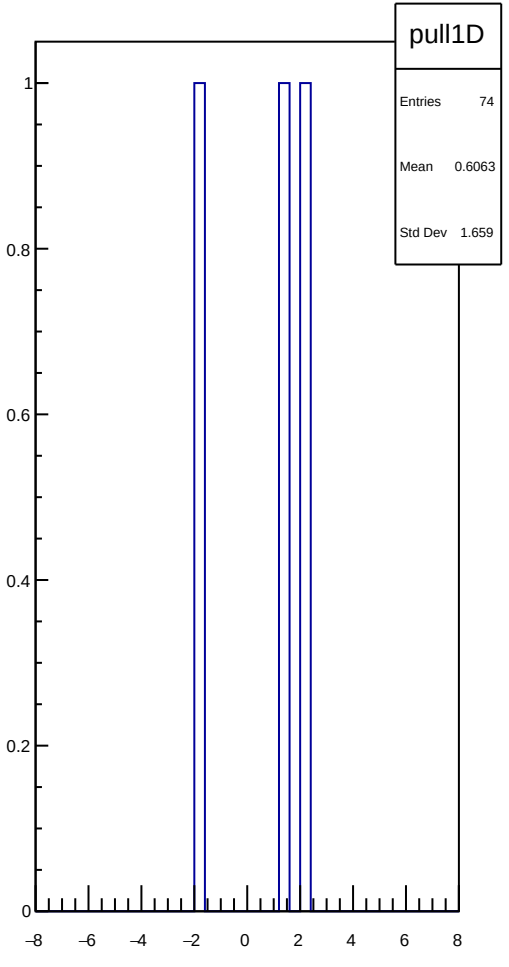

yield_bpm0i01X_rms vs run
χ² / ndf 2.597e+04 / 73
p0 0.007861 ± 6.618e−06
0.016
0.014
0.012
0.01
0.008
0.006

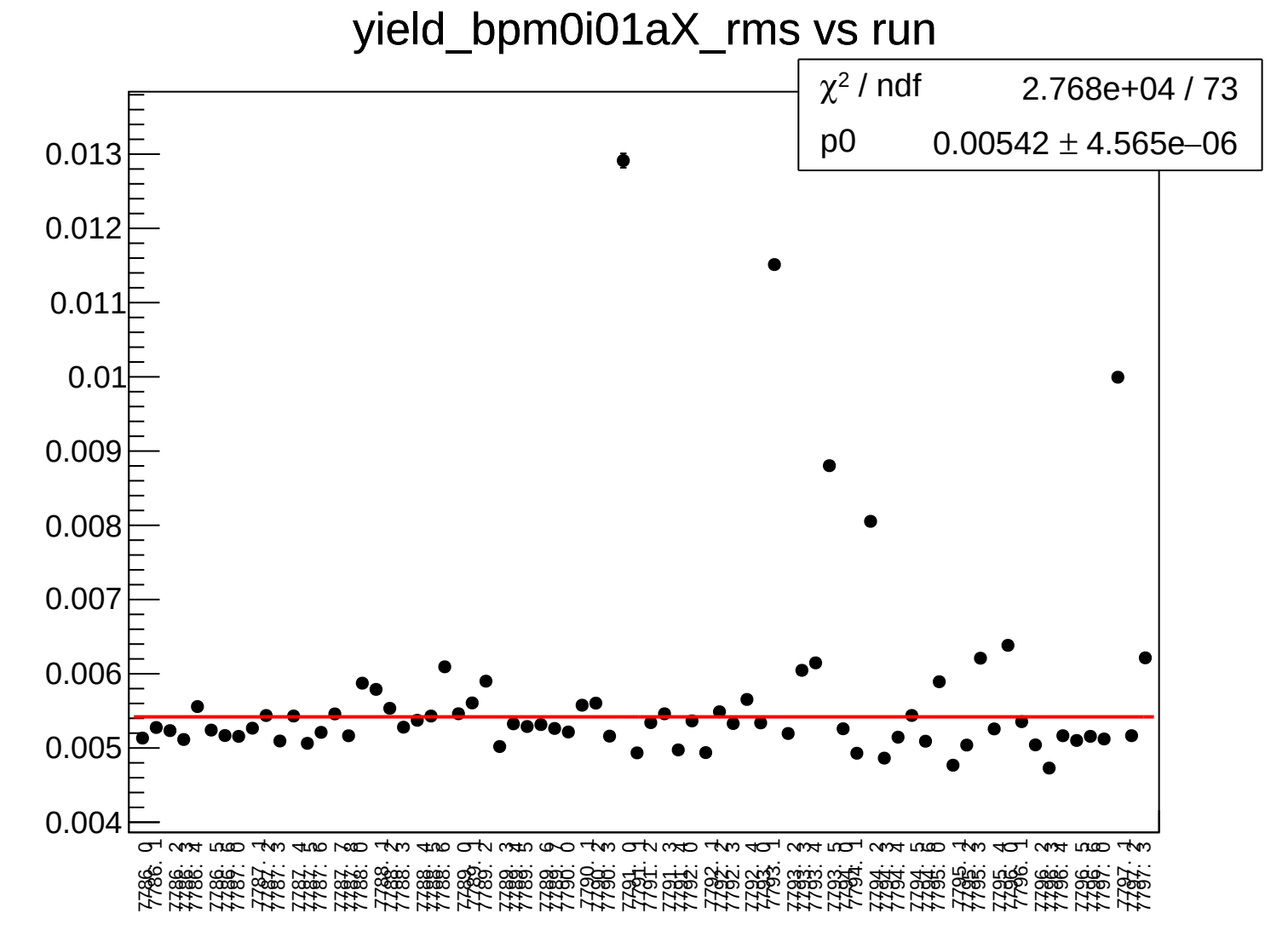

yield_bpm0i01Y_mean vs run
χ² / ndf 6.69e+05 / 73
p0 −1.062 ± 5.726e−06
−1.045
−1.05
−1.055
−1.06
−1.065
−1.07
−1.075
pull
Entries 74
Mean −411
Std Dev 449
400
300
200
100
0
−100
−200

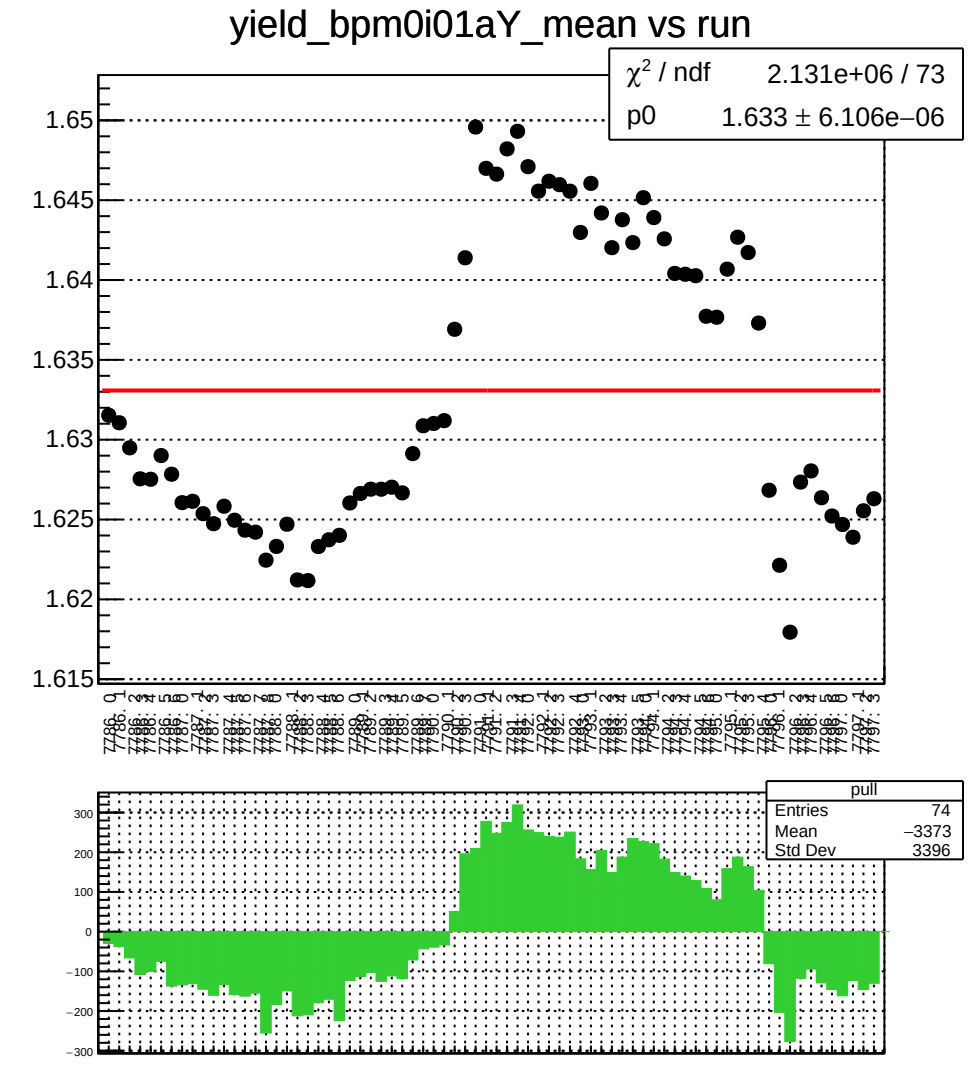

pull1D
Entries 74
Mean 1.657
Std Dev 4.711
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

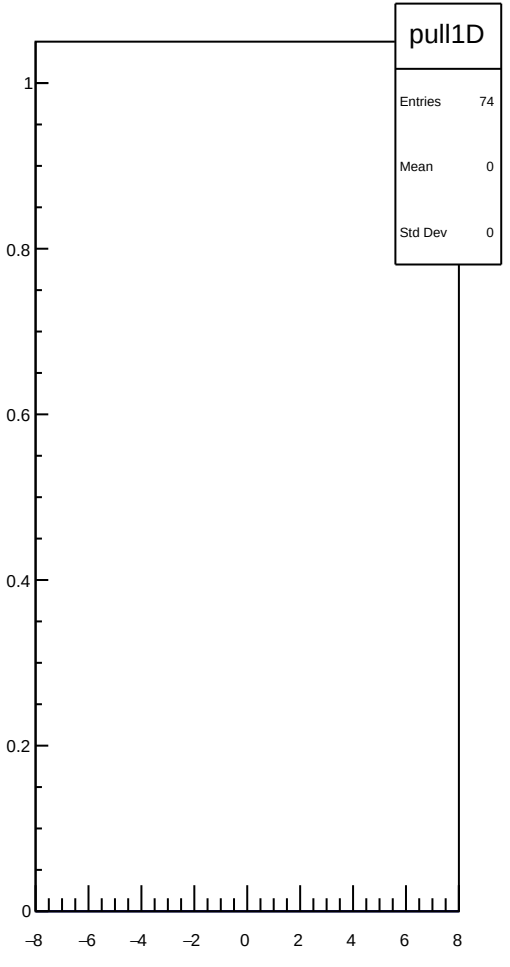

yield_bpm0i01Y_rms vs run
χ² / ndf 3.147e+04 / 73
p0 0.0048 ± 4.049e−06
0.014
0.012
0.01
0.008
0.006
0.004

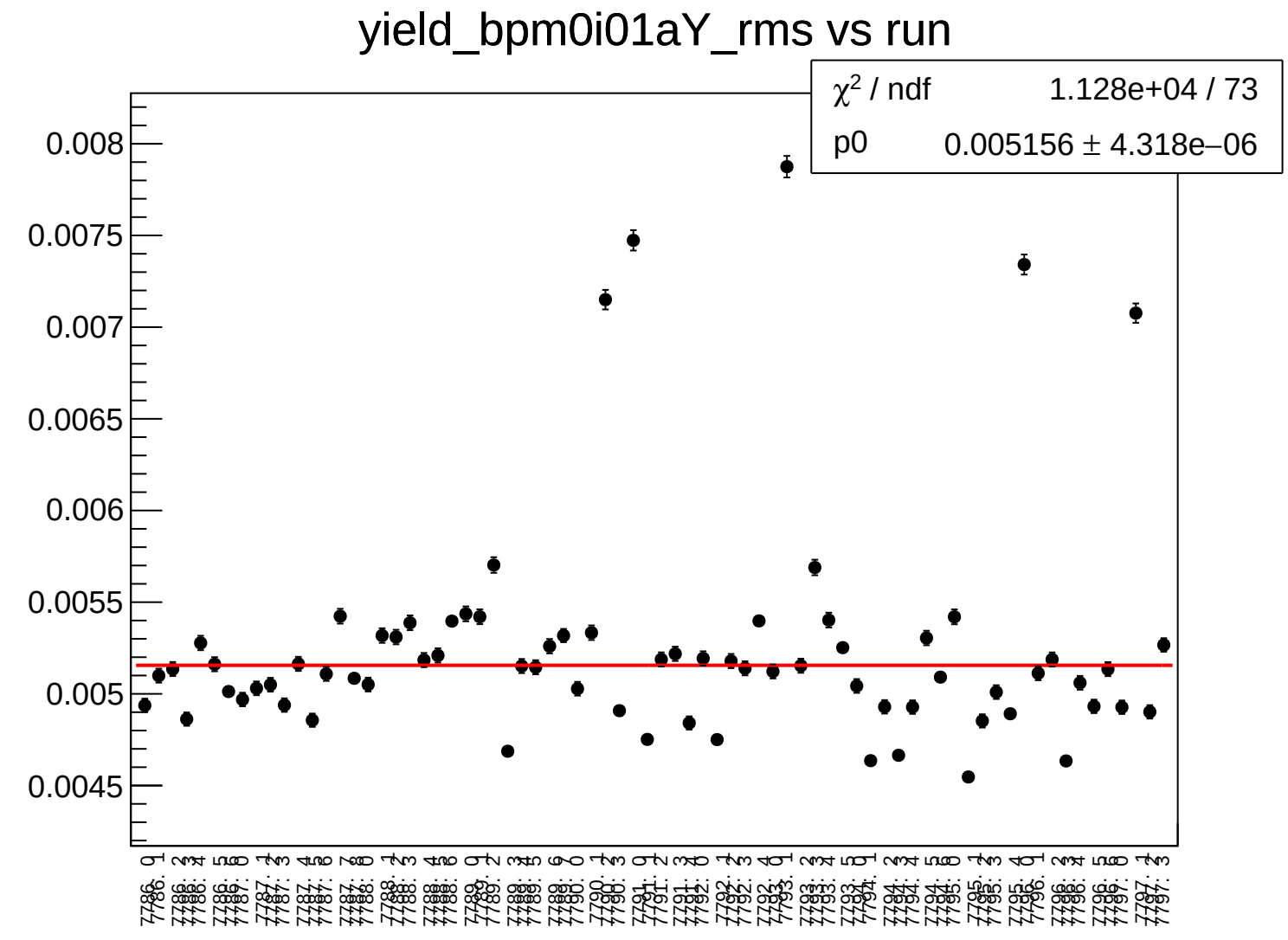

yield_bpm0i01aX_mean vs run
χ² / ndf 8.657e+05 / 73
p0 −1.673 ± 6.456e−06
−1.66
−1.665
−1.67
−1.675
−1.68
−1.685
pull
Entries 74
Mean −5913
Std Dev 5925
200
150
100
50
0
−50
−100
−150
−200

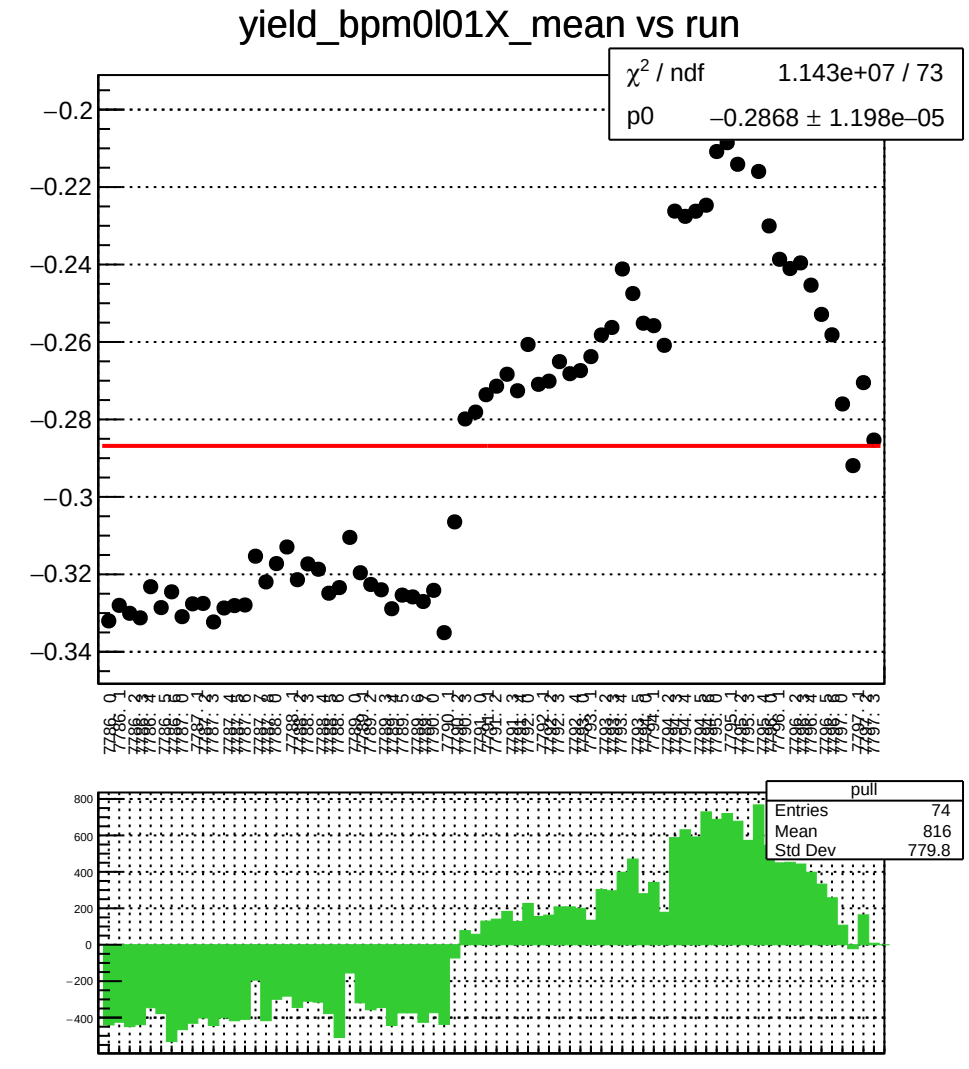

pull1D
Entries 74
Mean 0.6063
Std Dev 1.659
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

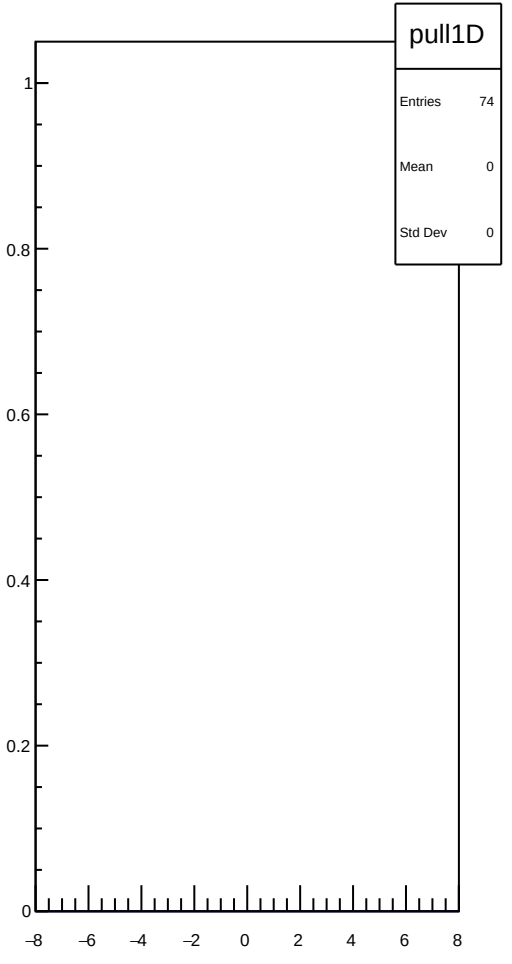

yield_bpm0i01aX_rms vs run
χ² / ndf 2.768e+04 / 73
p0 0.00542 ± 4.565e–06
0.013
0.012
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004

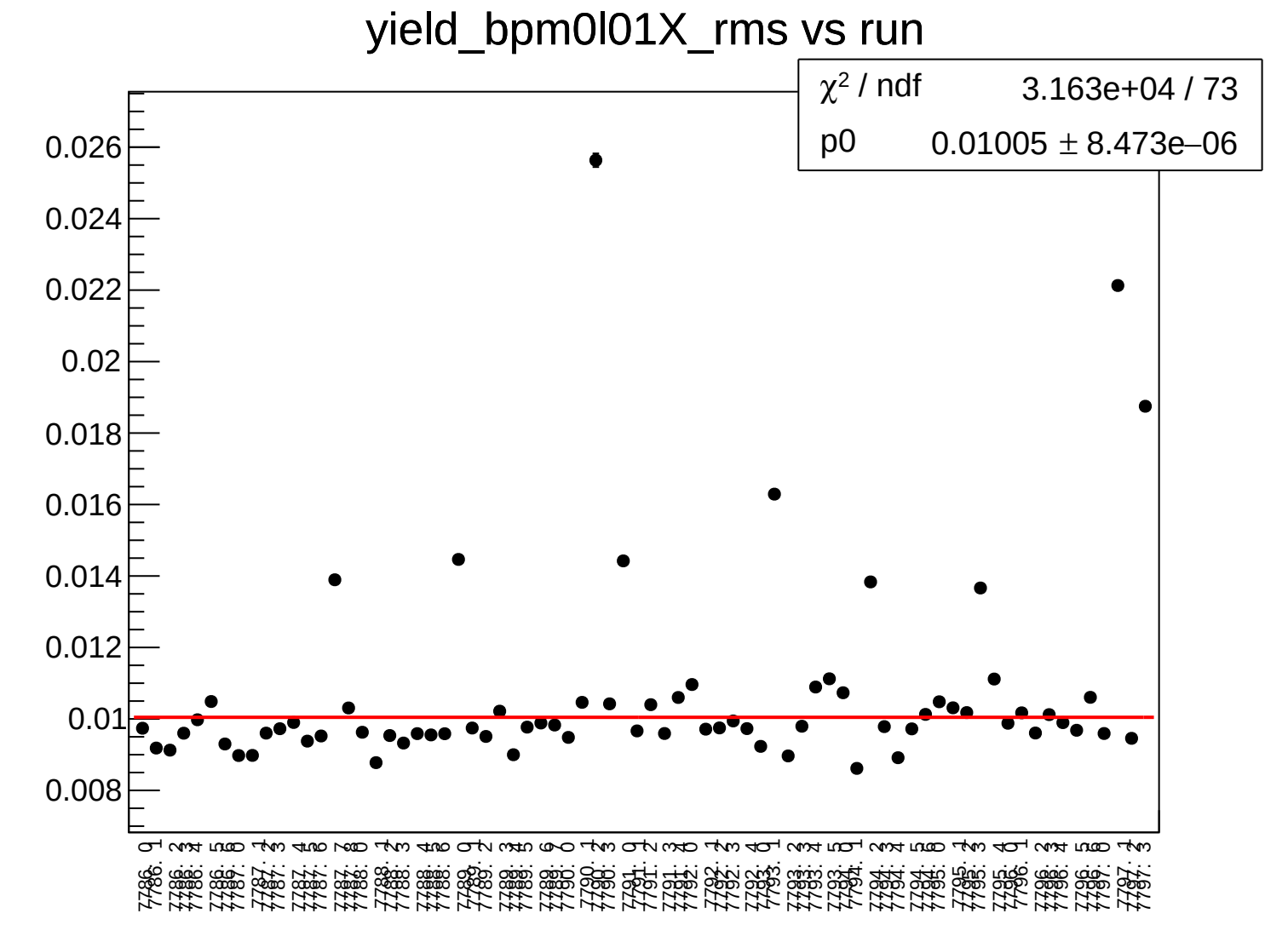

yield_bpm0i01aY_mean vs run
χ² / ndf 2.131e+06 / 73
p0 1.633 ± 6.106e−06
1.65
1.645
1.64
1.635
1.63
1.625
1.62
1.615
pull
Entries 74
Mean −3373
Std Dev 3396
300
200
100
0
−100
−200
−300

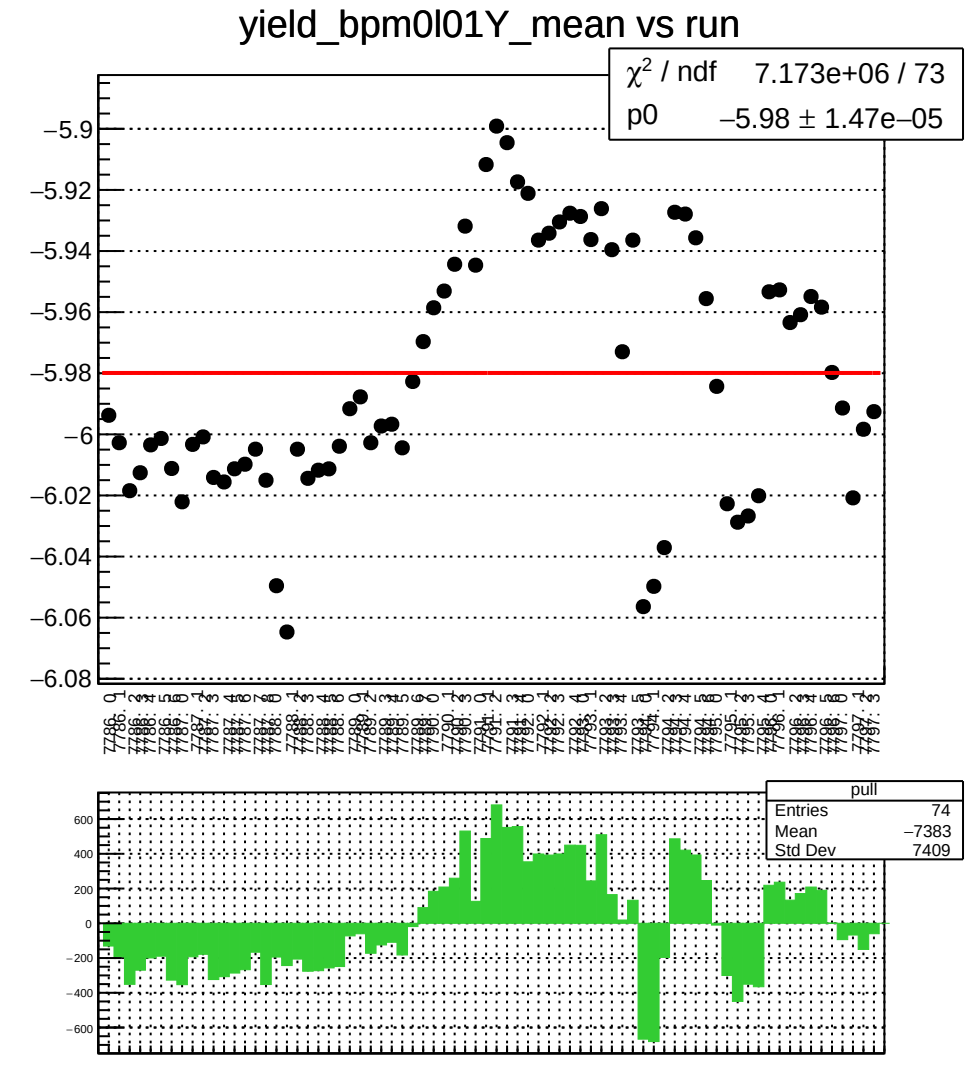

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

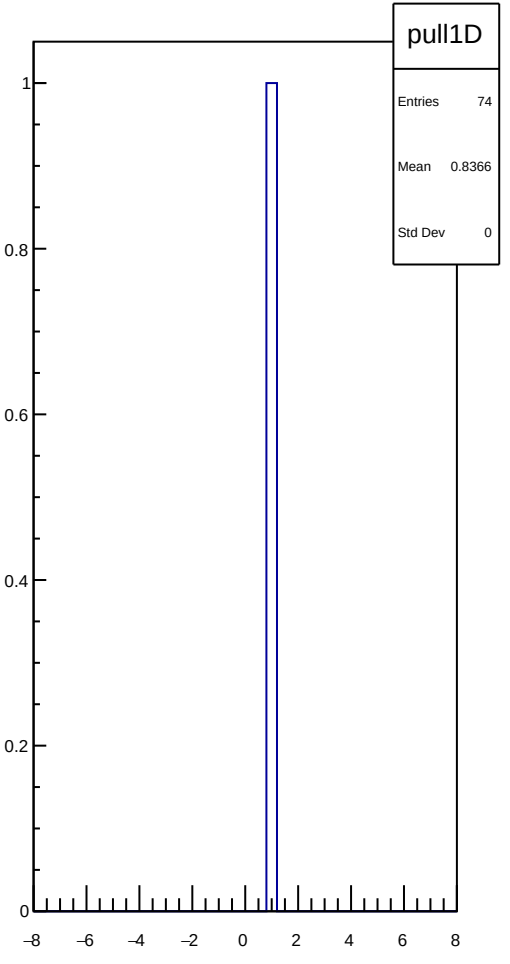

yield_bpm0i01aY_rms vs run
χ² / ndf 1.128e+04 / 73
p0 0.005156 ± 4.318e−06
0.008
0.0075
0.007
0.0065
0.006
0.0055
0.005
0.0045

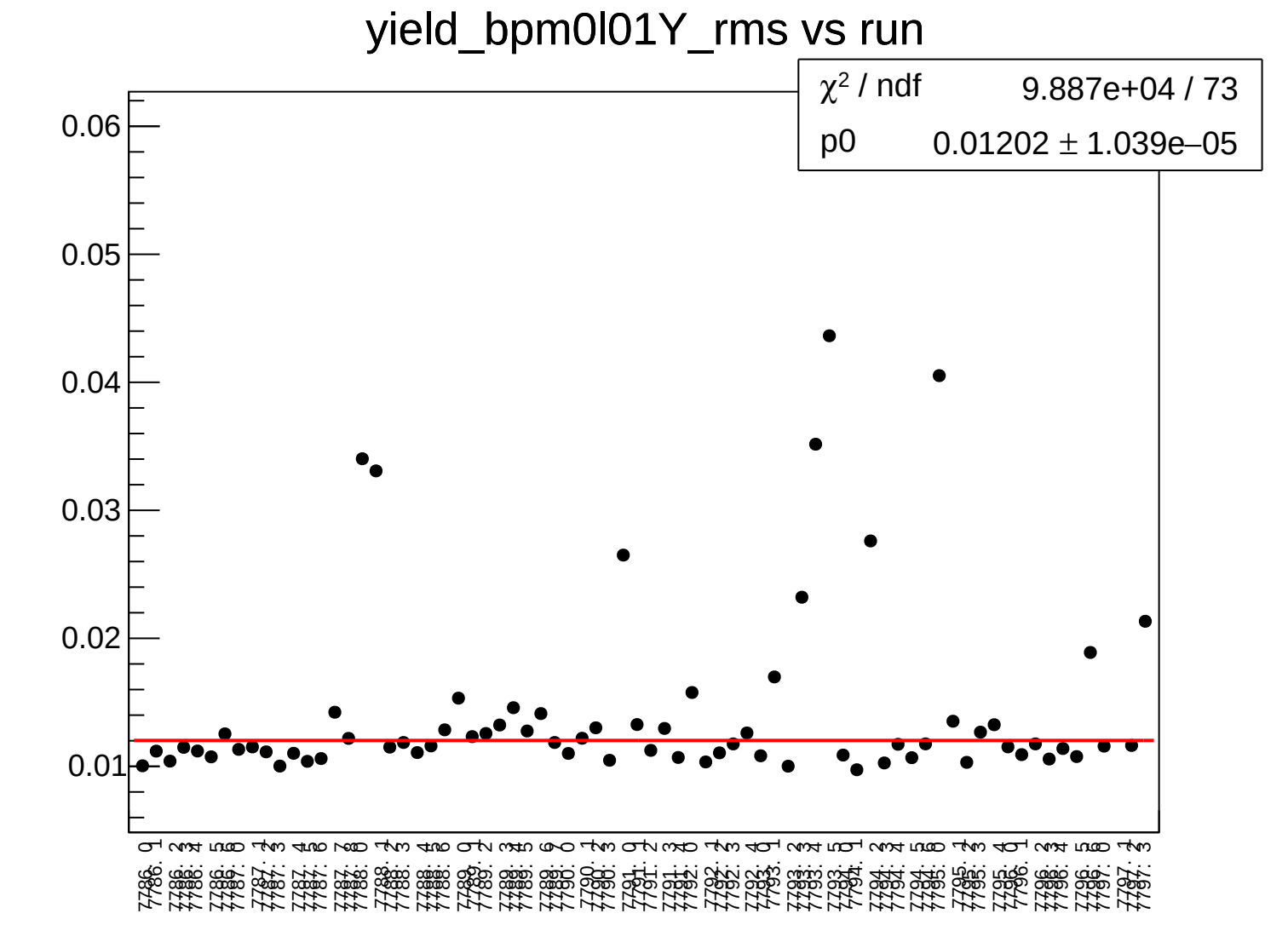

yield_bpm0l01X_mean vs run
χ² / ndf 1.143e+07 / 73
p0 −0.2868 ± 1.198e−05
−0.2
−0.22
−0.24
−0.26
−0.28
−0.3
−0.32
−0.34
pull
Entries 74
Mean 816
Std Dev 779.8
800
600
400
200
0
−200
−400

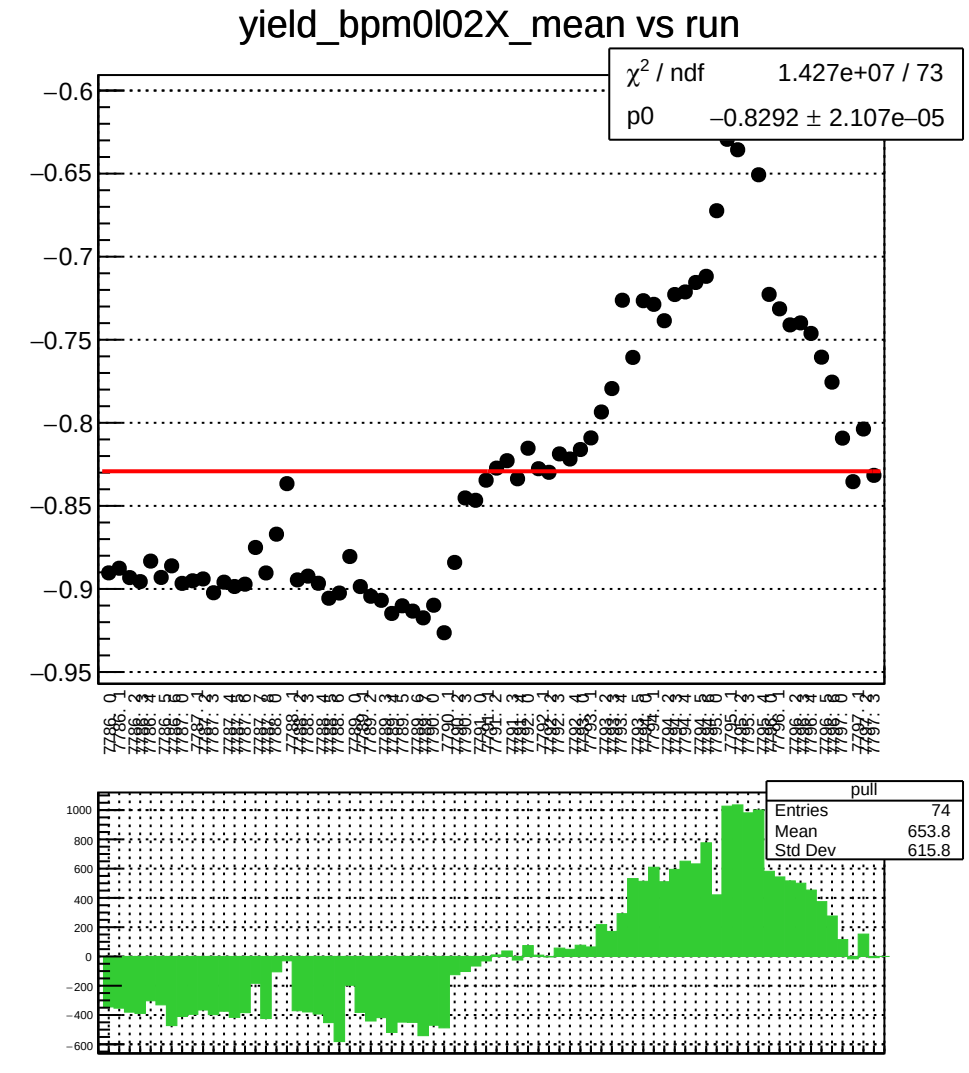

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

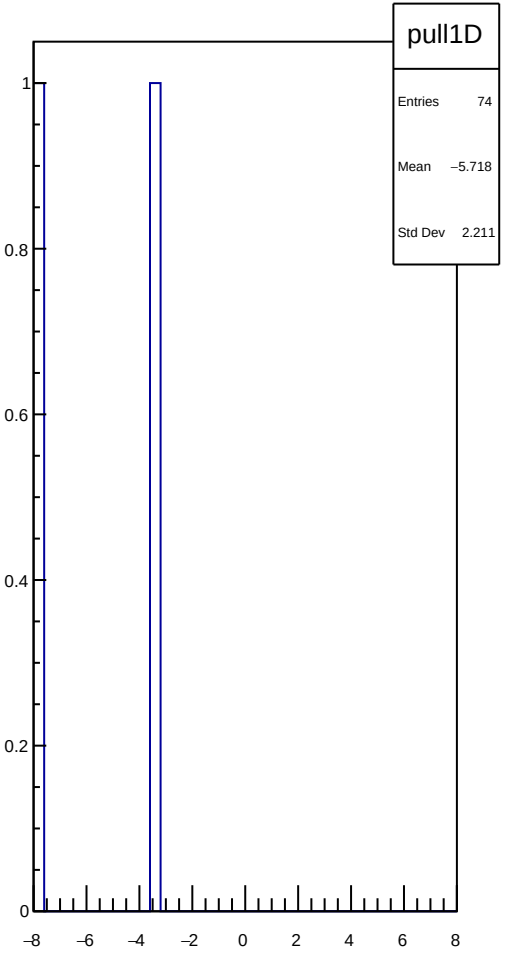

yield_bpm0l01X_rms vs run
χ² / ndf 3.163e+04 / 73
p0 0.01005 ± 8.473e–06
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012
0.01
0.008

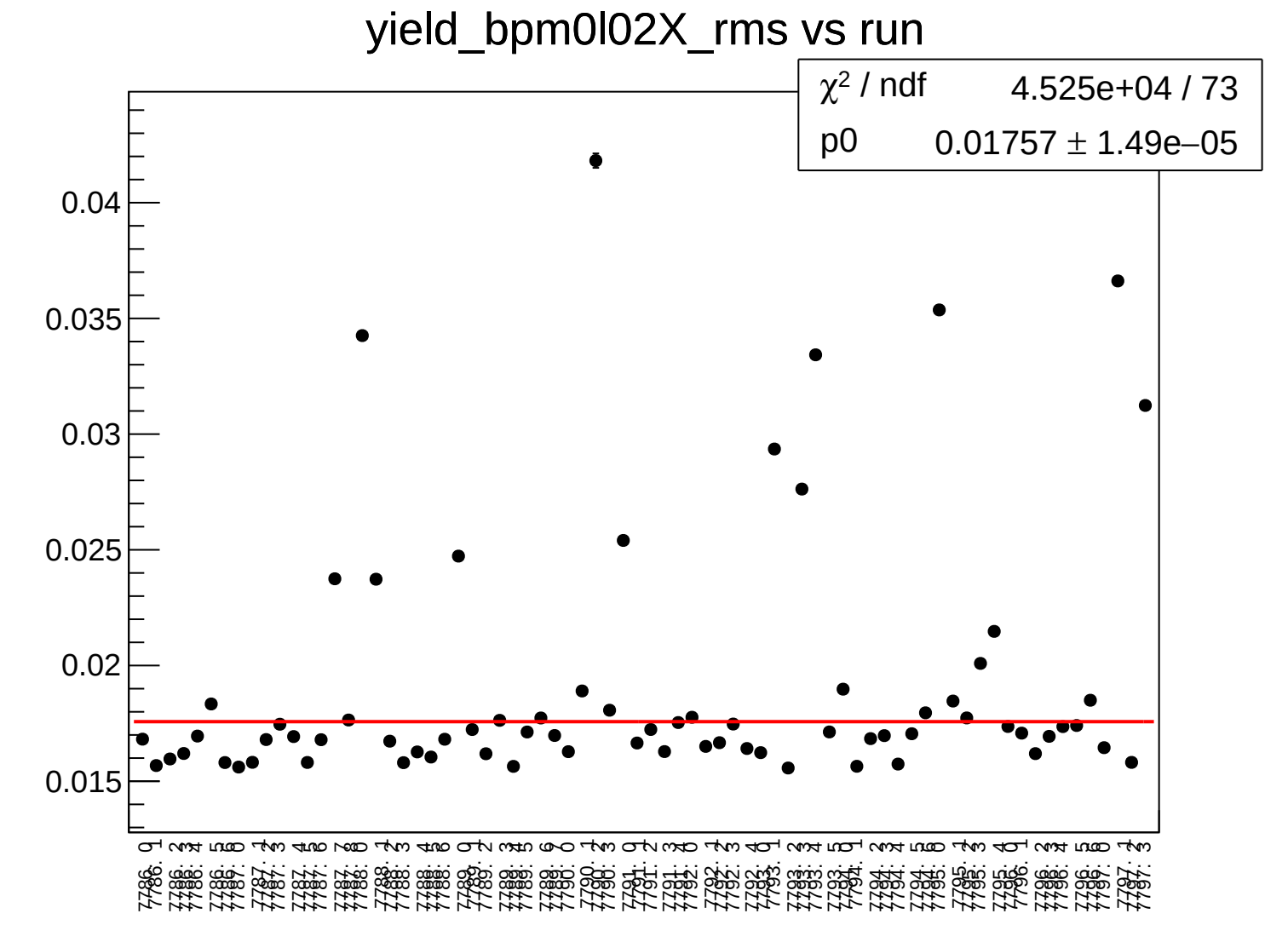

yield_bpm0l01Y_mean vs run
χ² / ndf 7.173e+06 / 73
p0 −5.98 ± 1.47e−05
−5.9
−5.92
−5.94
−5.96
−5.98
−6
−6.02
−6.04
−6.06
−6.08
pull
Entries 74
Mean −7383
Std Dev 7409
600
400
200
0
−200
−400
−600

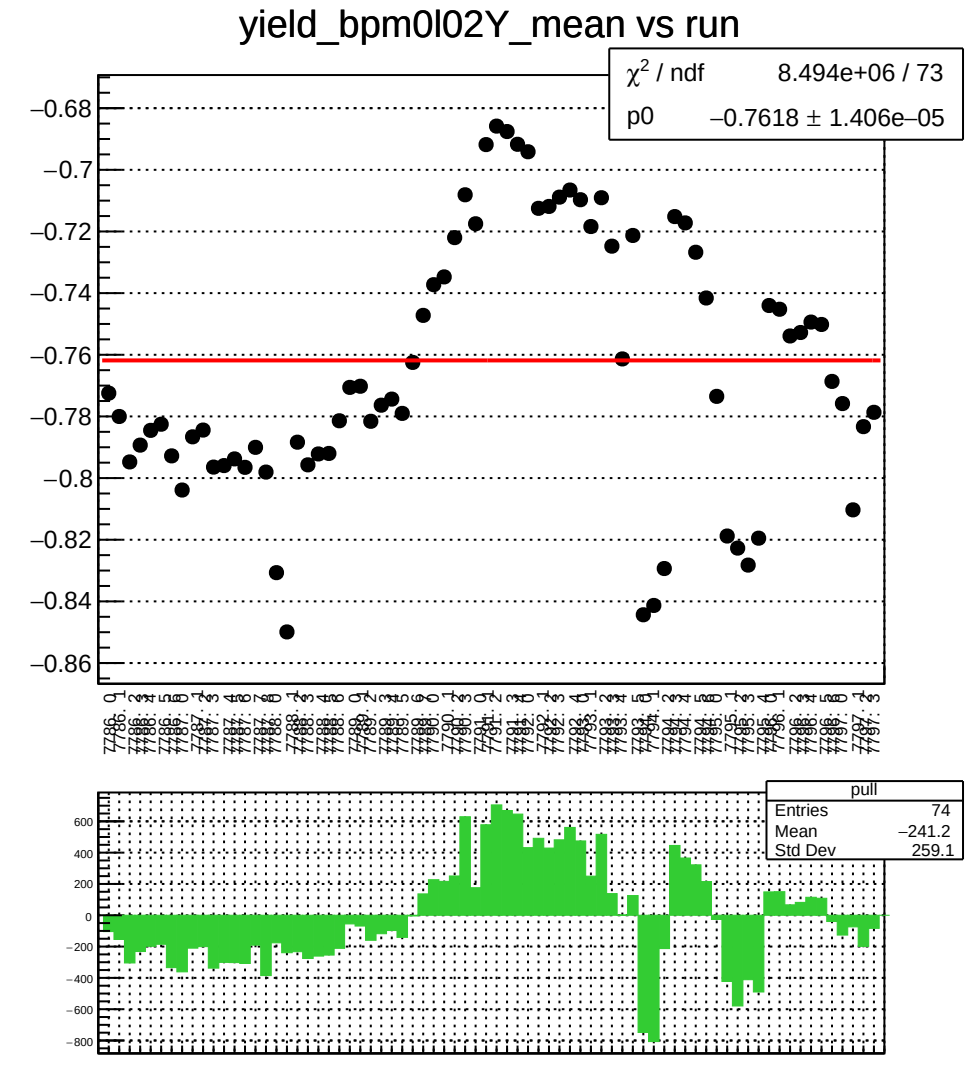

pull1D
Entries 74
Mean 0.8366
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

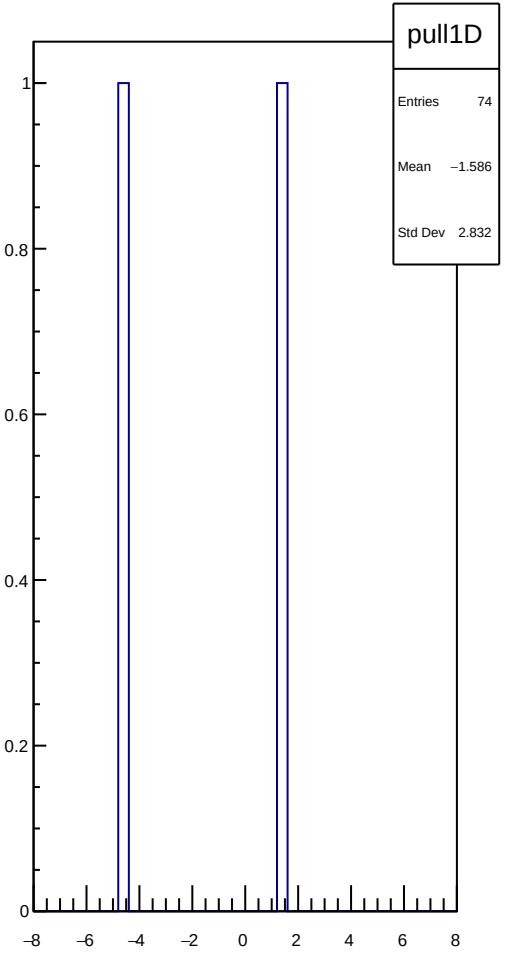

yield_bpm0l01Y_rms vs run
χ² / ndf 9.887e+04 / 73
p0 0.01202 ± 1.039e−05
0.06
0.05
0.04
0.03
0.02
0.01

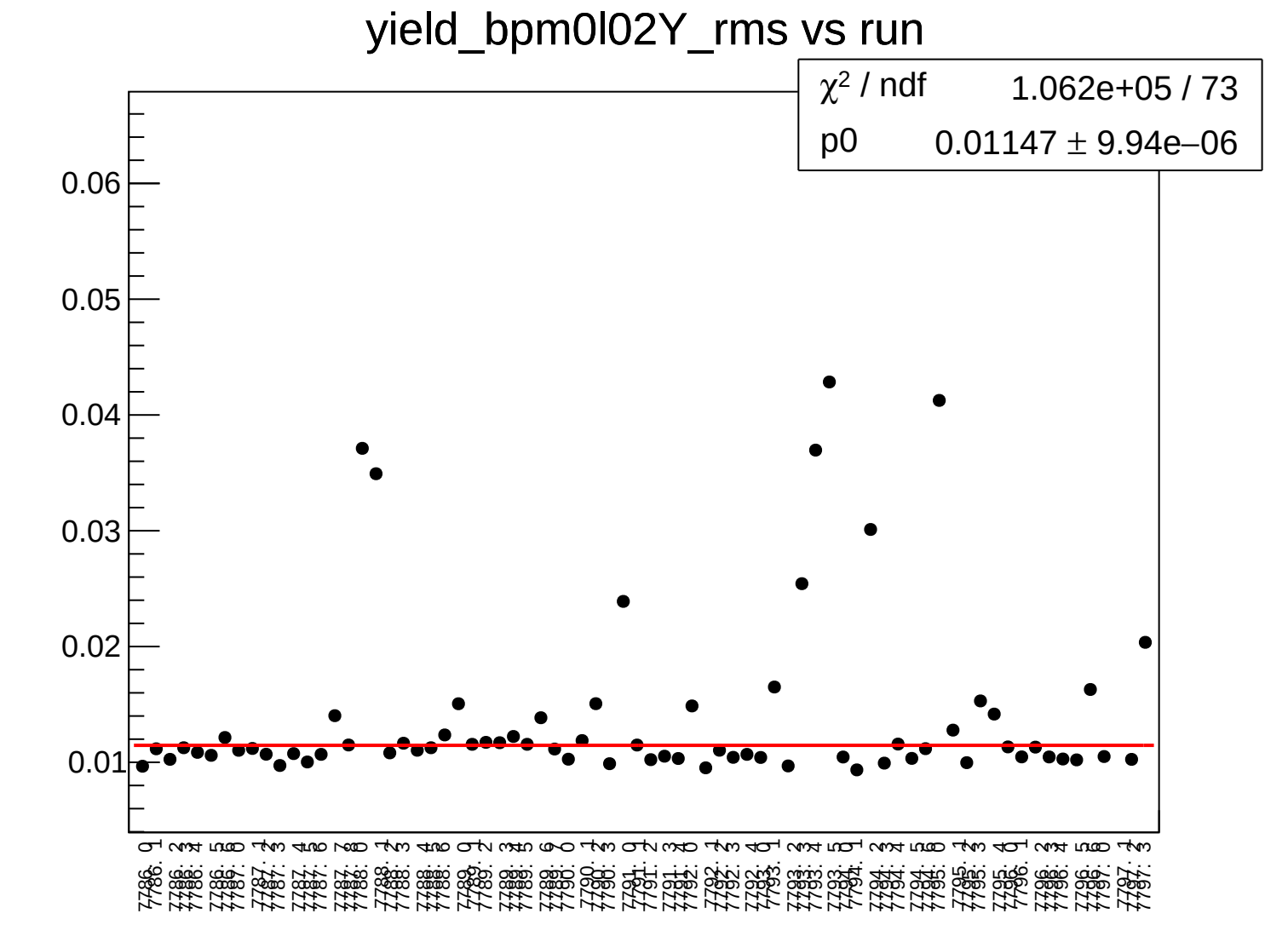

yield_bpm0l02X_mean vs run
χ² / ndf 1.427e+07 / 73
p0 −0.8292 ± 2.107e−05
pull
Entries 74
Mean 653.8
Std Dev 615.8

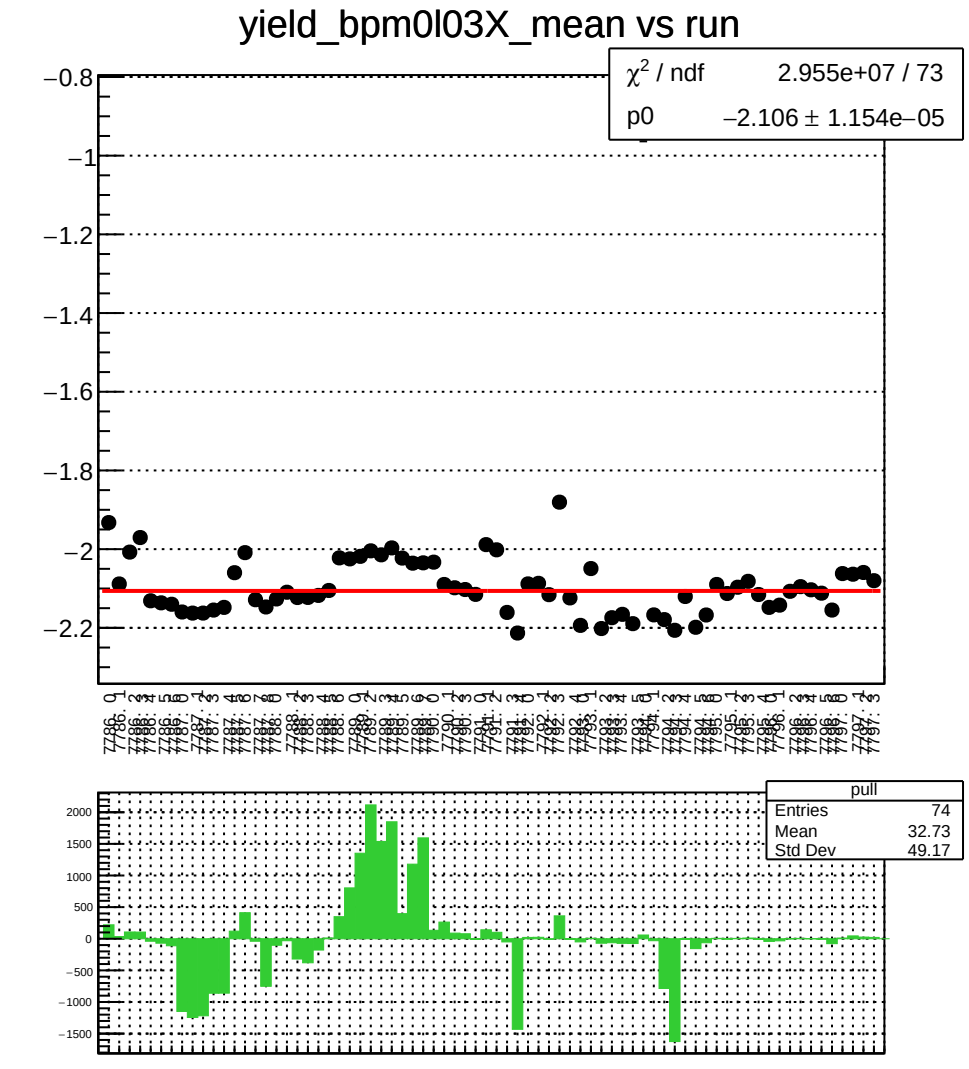

pull1D
Entries 74
Mean −5.718
Std Dev 2.211

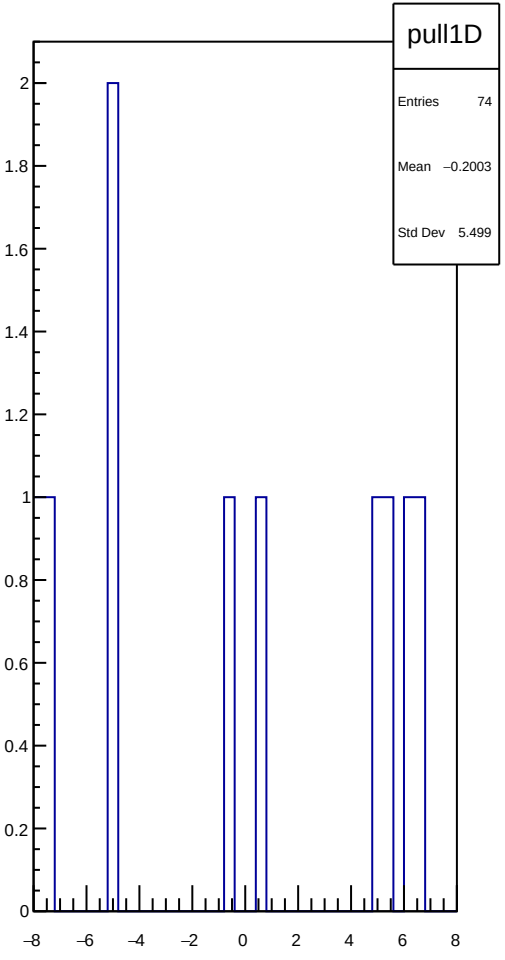

yield_bpm0l02X_rms vs run
χ² / ndf 4.525e+04 / 73
p0 0.01757 ± 1.49e−05
0.04
0.035
0.03
0.025
0.02
0.015

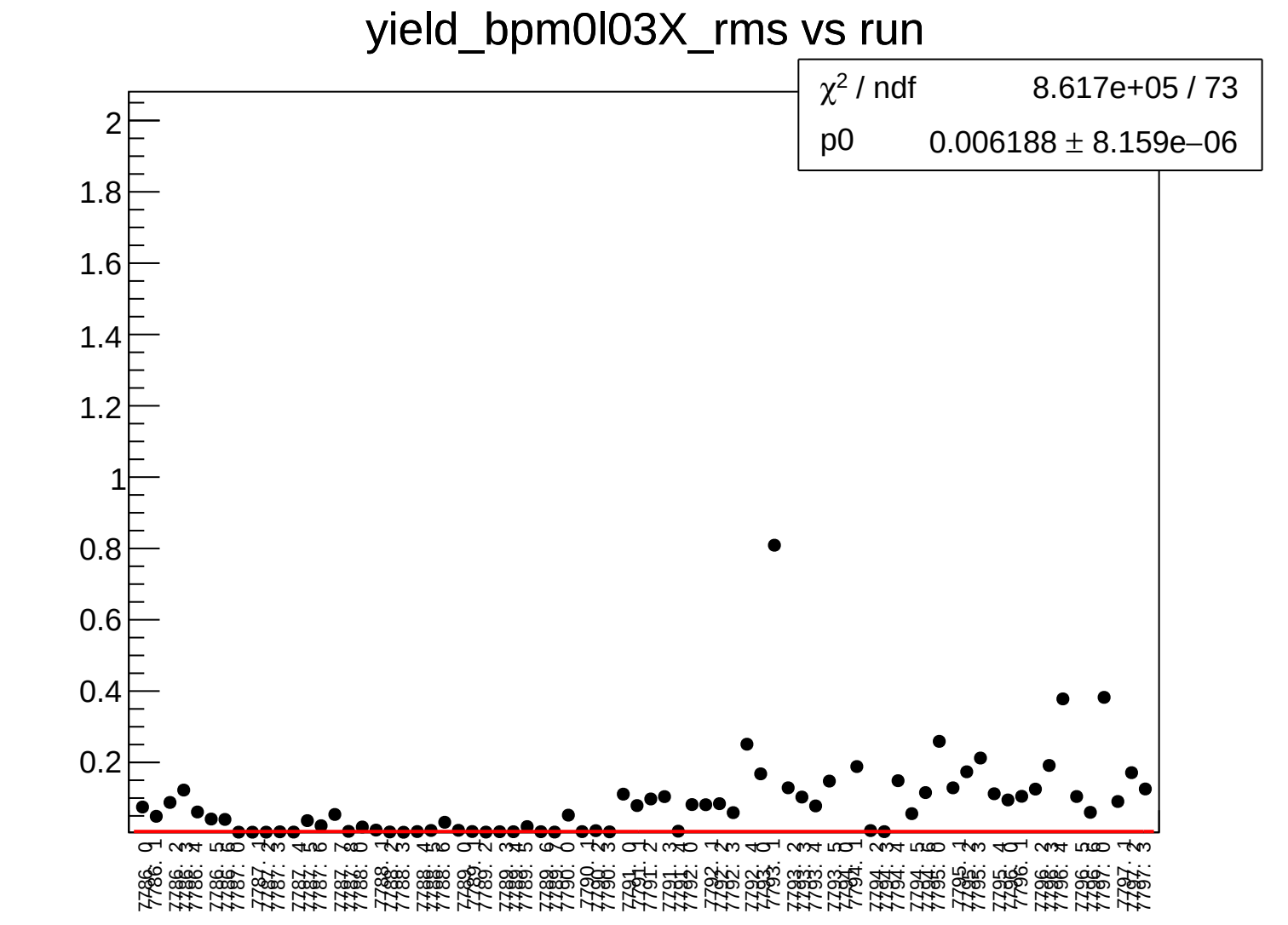

yield_bpm0l02Y_mean vs run
χ² / ndf 8.494e+06 / 73
p0 −0.7618 ± 1.406e−05
pull
Entries 74
Mean −241.2
Std Dev 259.1

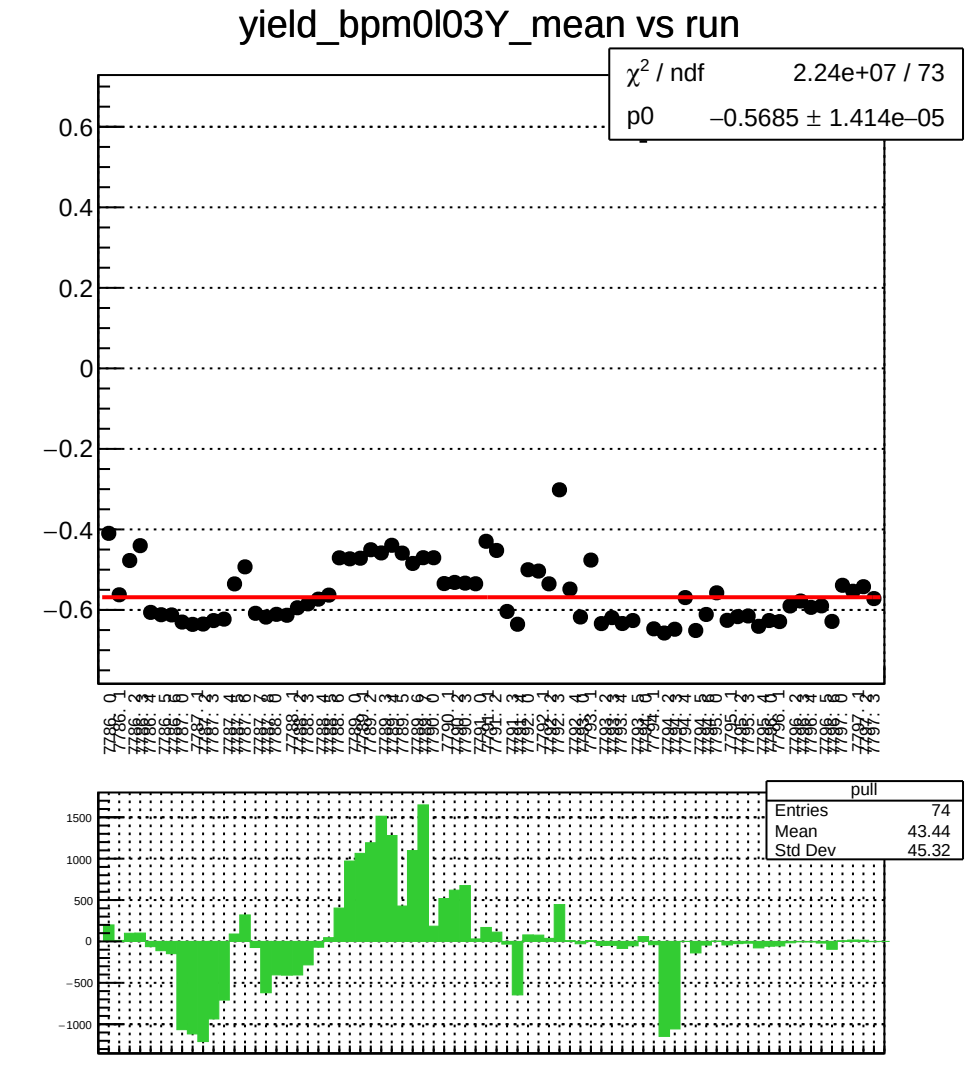

pull1D
Entries 74
Mean −1.586
Std Dev 2.832

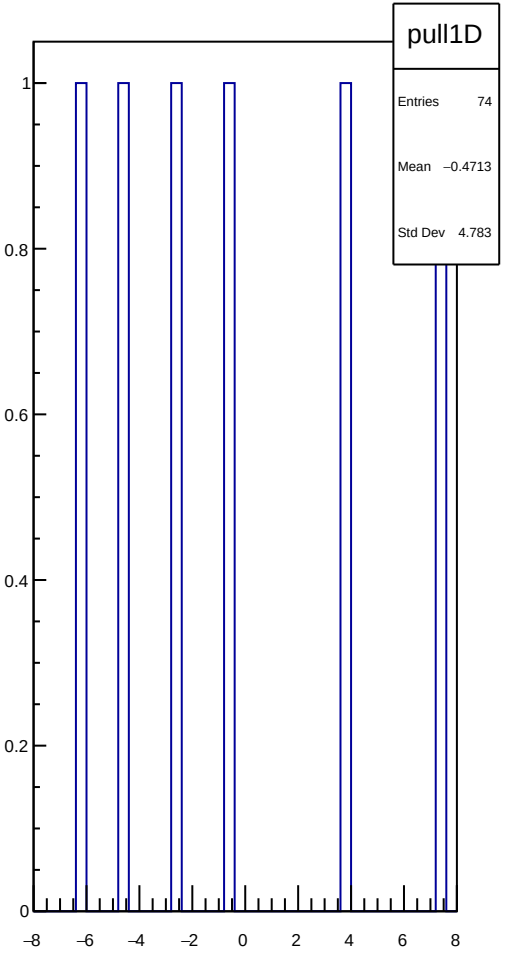

yield_bpm0l02Y_rms vs run
χ² / ndf 1.062e+05 / 73
p0 0.01147 ± 9.94e−06
0.06
0.05
0.04
0.03
0.02
0.01

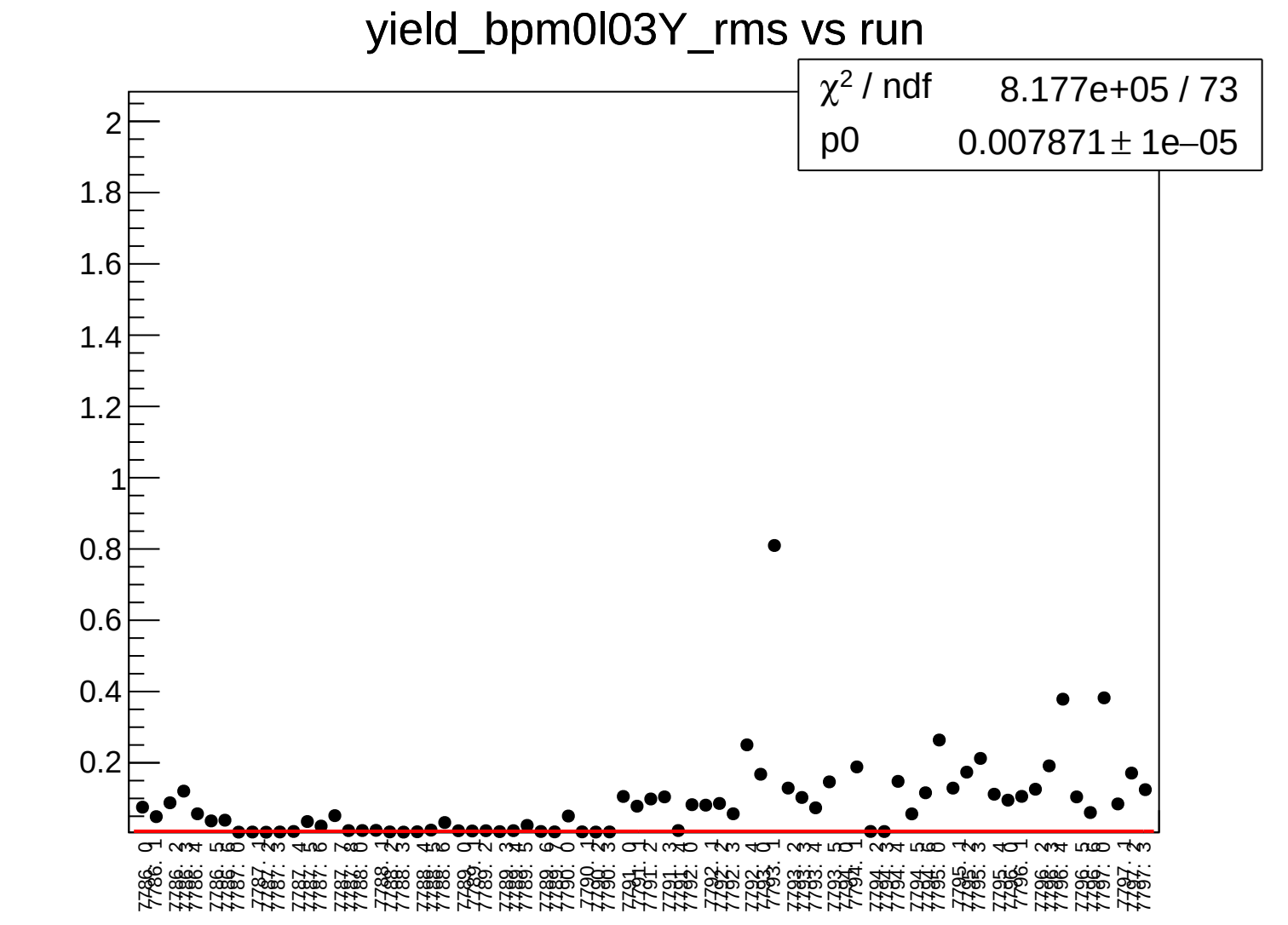

yield_bpm0l03X_mean vs run
χ² / ndf 2.955e+07 / 73
p0 −2.106 ± 1.154e−05
pull
Entries 74
Mean 32.73
Std Dev 49.17

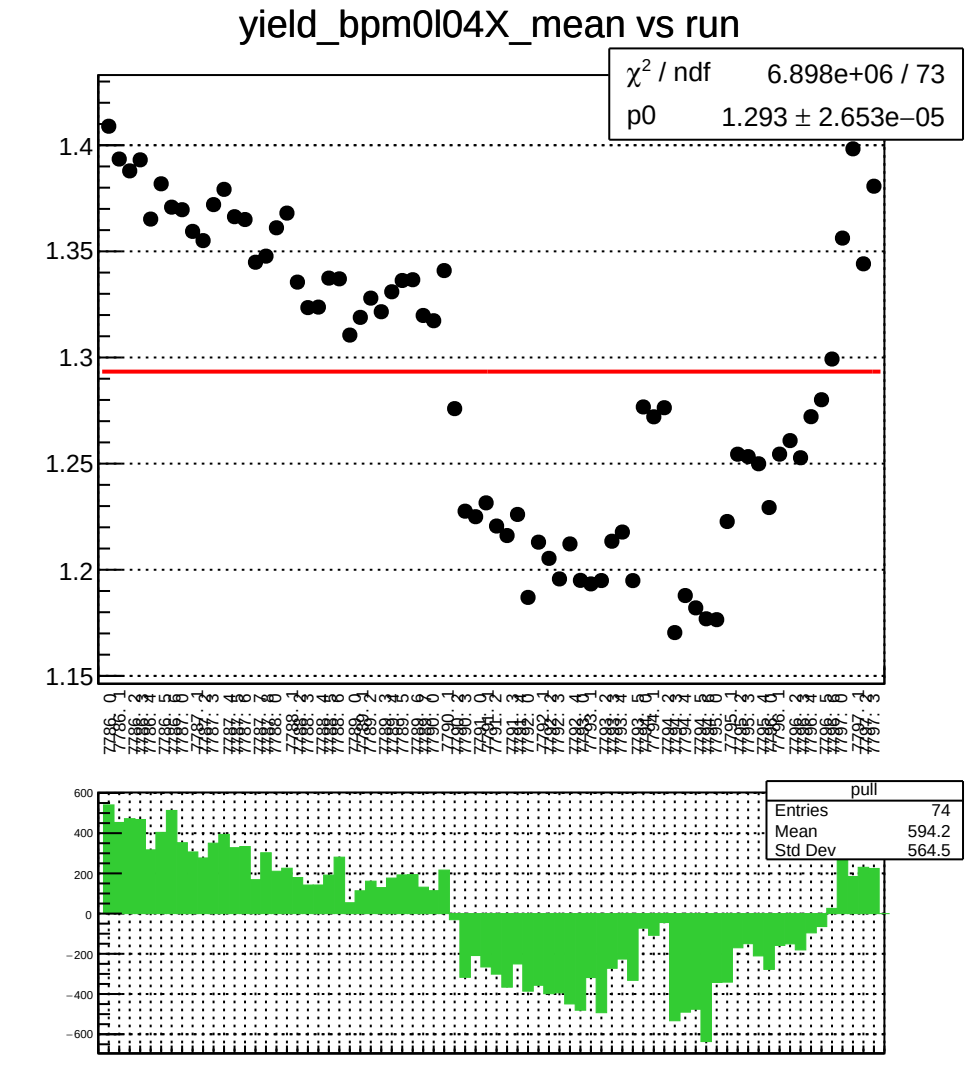

pull1D
Entries 74
Mean −0.2003
Std Dev 5.499

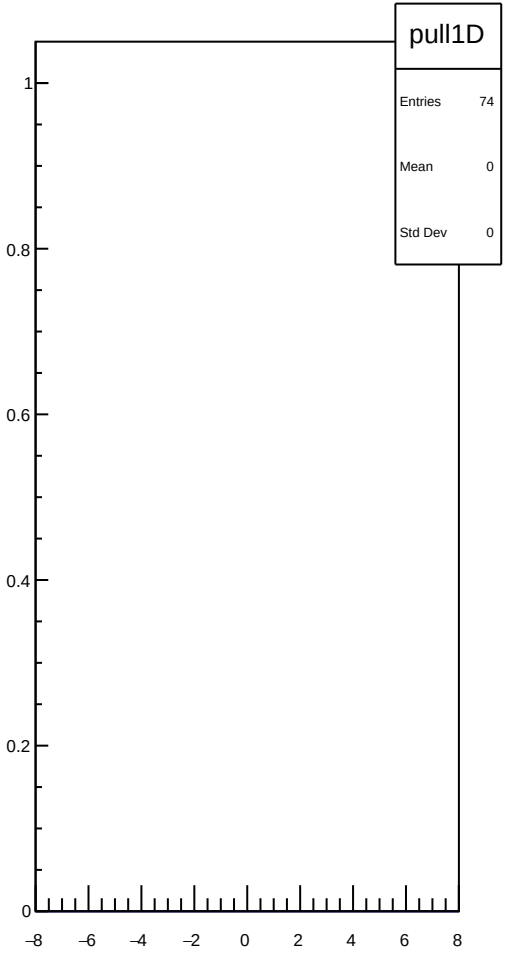

yield_bpm0l03X_rms vs run
χ^2 / ndf 8.617e+05 / 73
p0 0.006188 ± 8.159e−06
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

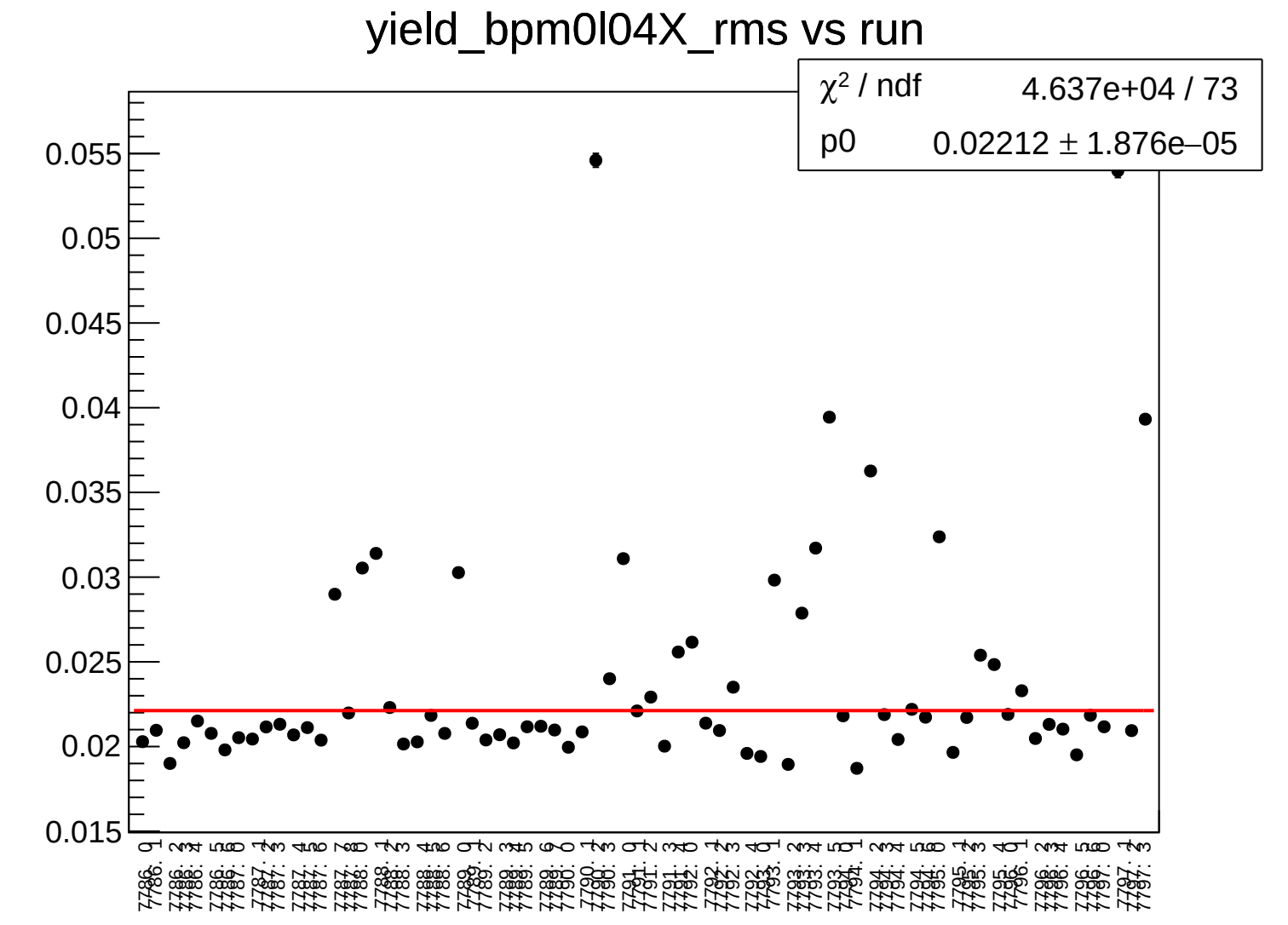

yield_bpm0l03Y_mean vs run
χ² / ndf 2.24e+07 / 73
p0 −0.5685 ± 1.414e−05
pull
Entries 74
Mean 43.44
Std Dev 45.32

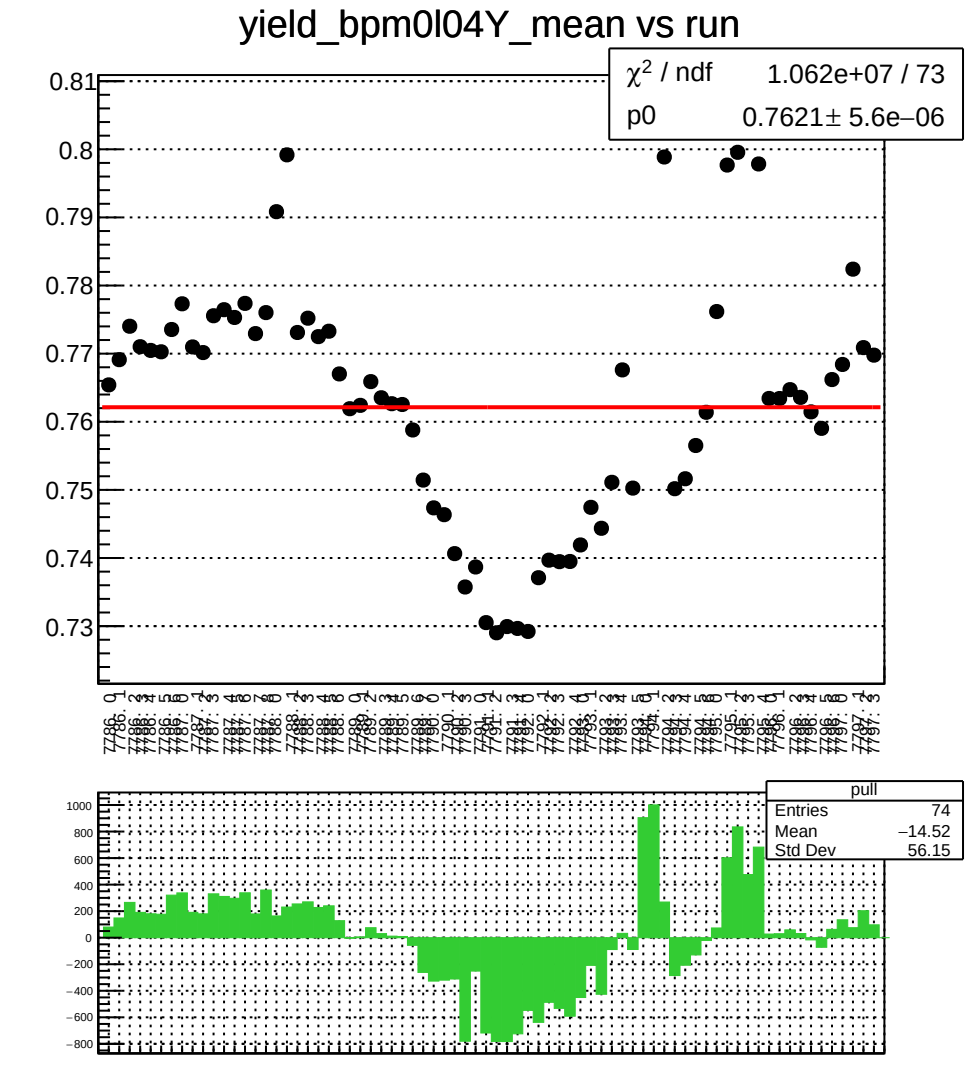

pull1D
Entries 74
Mean −0.4713
Std Dev 4.783

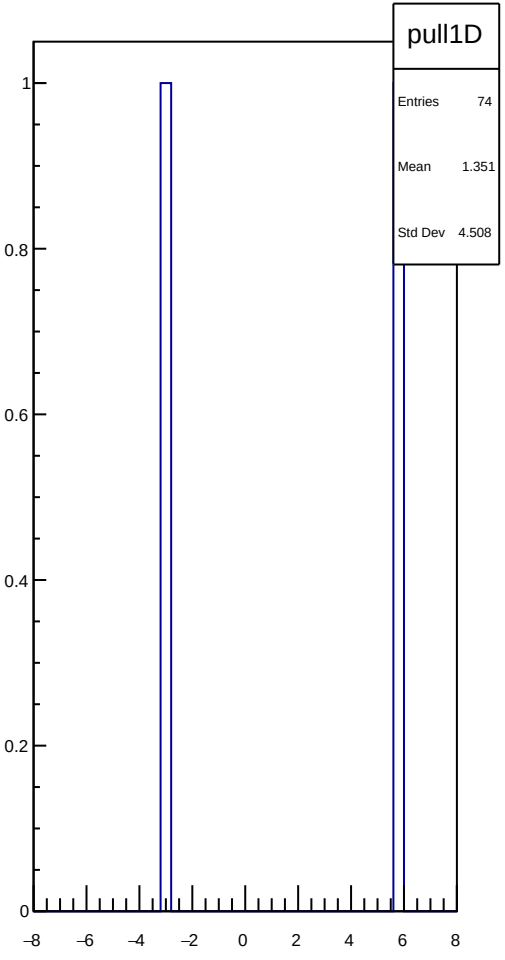

yield_bpm0l03Y_rms vs run
χ^2 / ndf 8.177e+05 / 73
p0 0.007871 ± 1e–05
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2

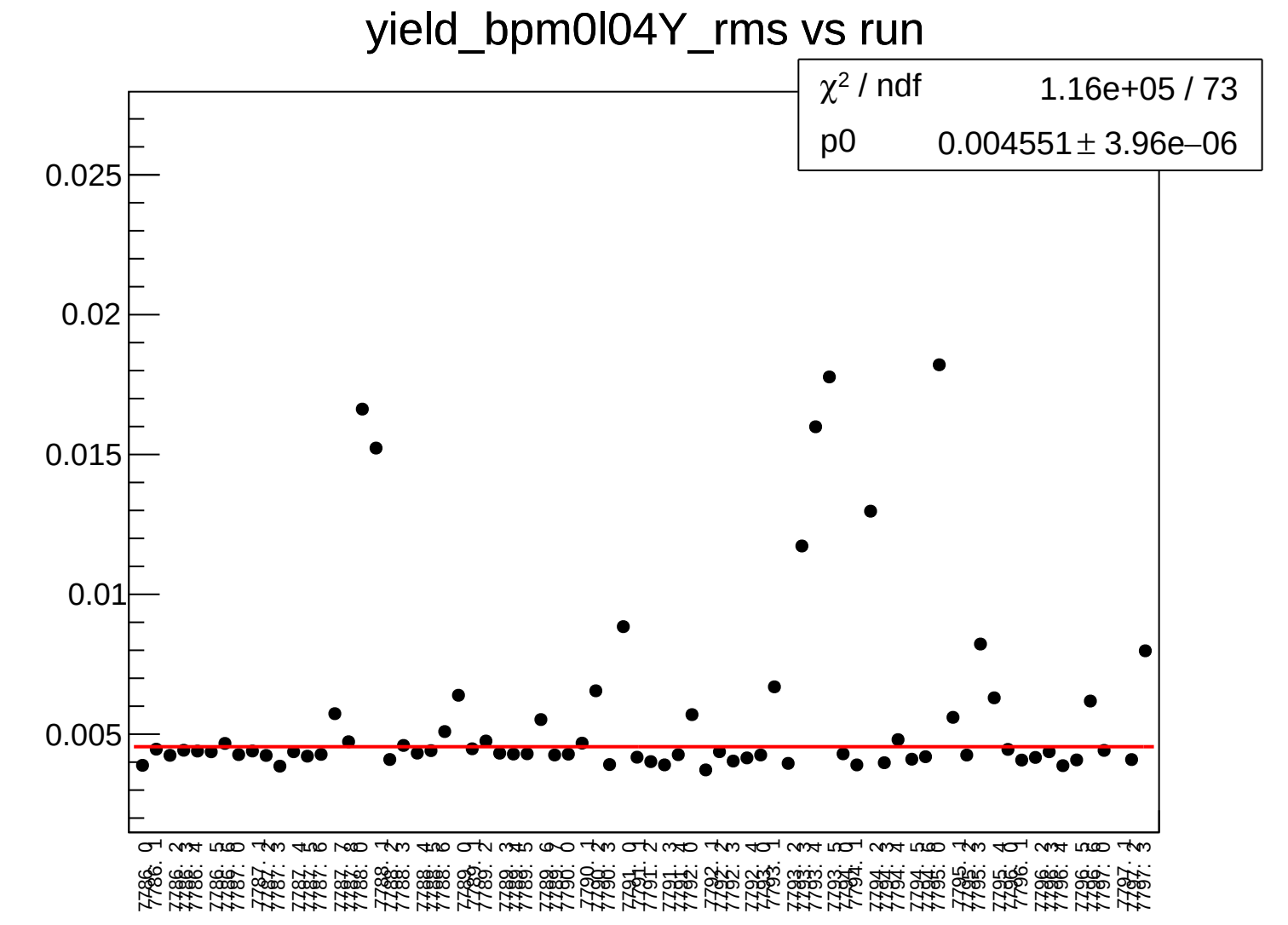

yield_bpm0l04X_mean vs run
χ² / ndf 6.898e+06 / 73
p0 1.293 ± 2.653e−05
1.4
1.35
1.3
1.25
1.2
1.15
pull
Entries 74
Mean 594.2
Std Dev 564.5
600
400
200
0
−200
−400
−600

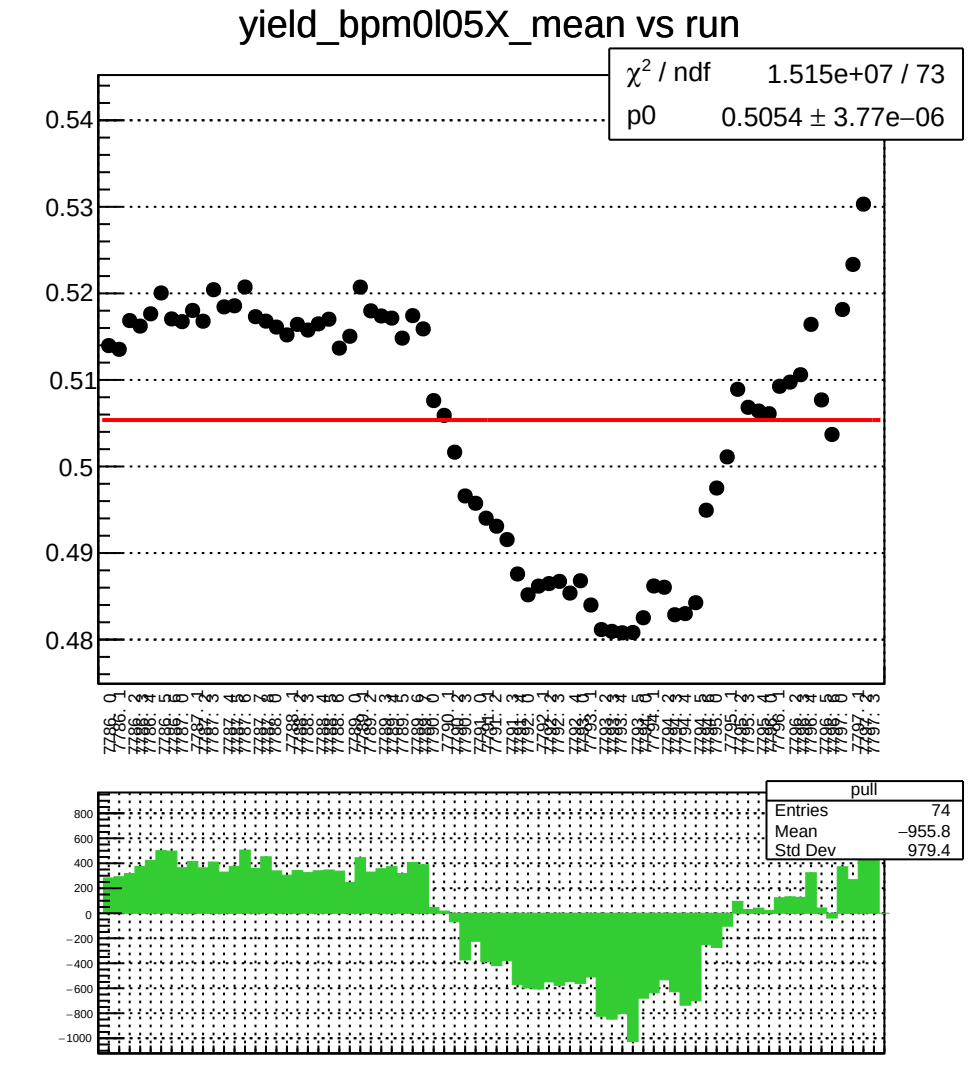

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

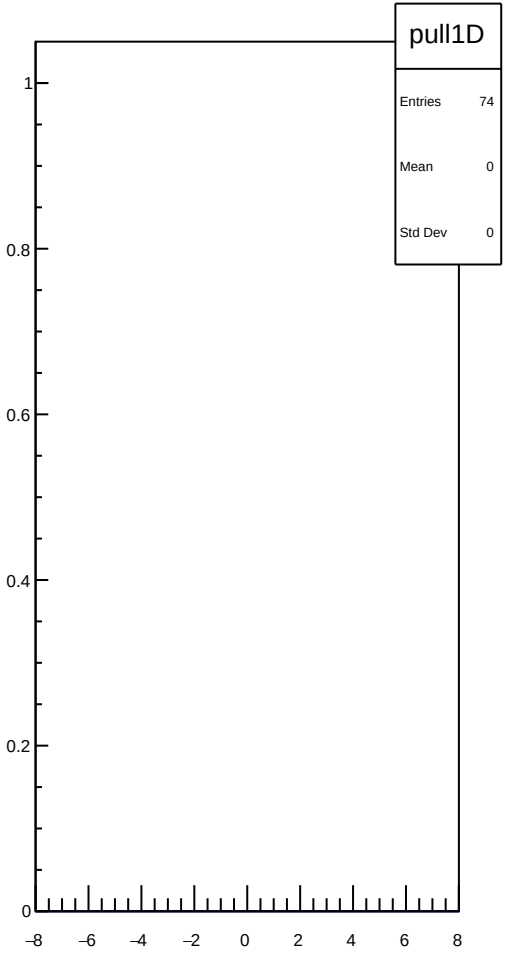

yield_bpm0l04X_rms vs run
χ² / ndf 4.637e+04 / 73
p0 0.02212 ± 1.876e–05
0.055
0.05
0.045
0.04
0.035
0.03
0.025
0.02
0.015

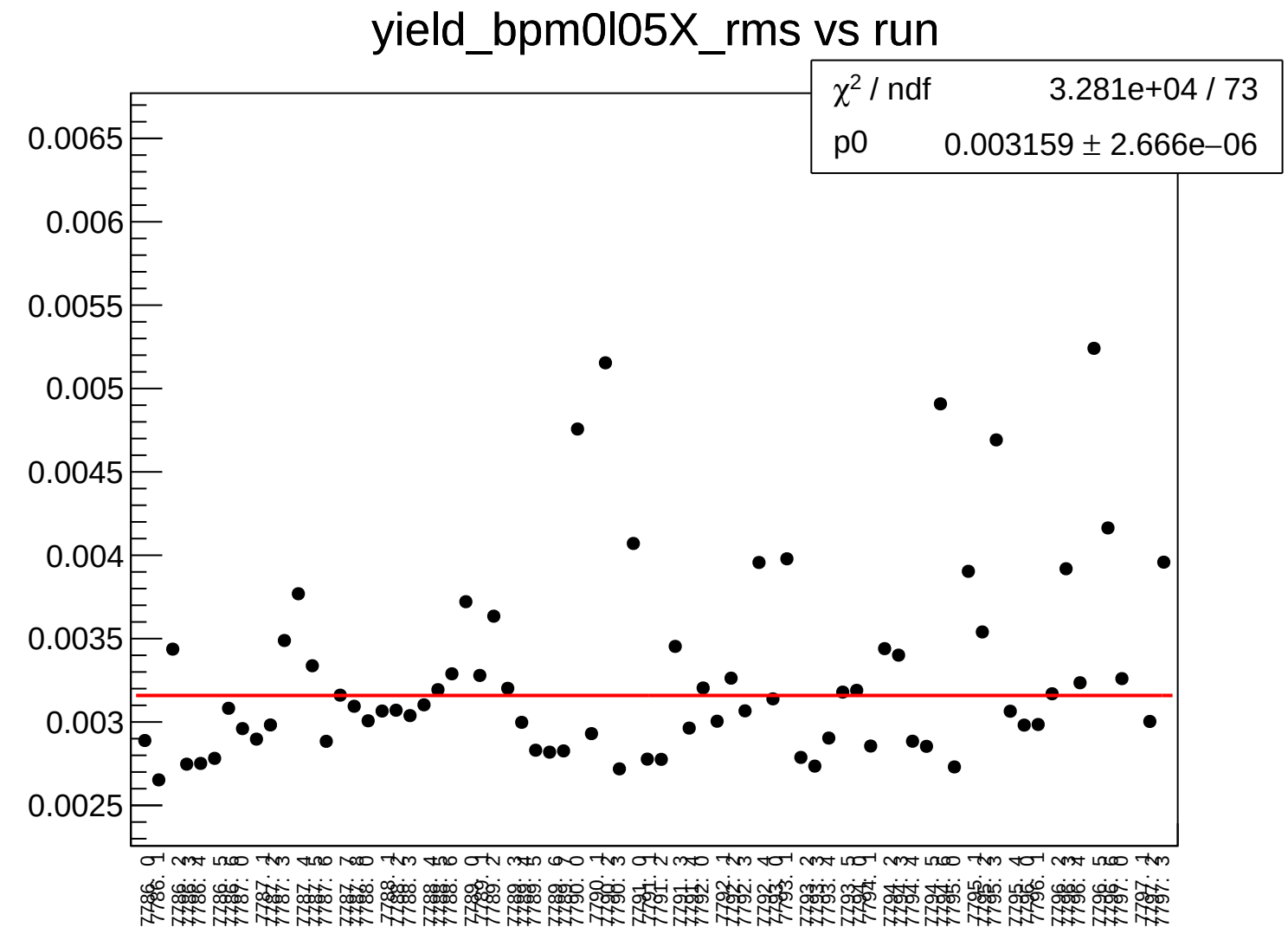

yield_bpm0l04Y_mean vs run
χ² / ndf 1.062e+07 / 73
p0 0.7621± 5.6e–06
pull
Entries 74
Mean –14.52
Std Dev 56.15

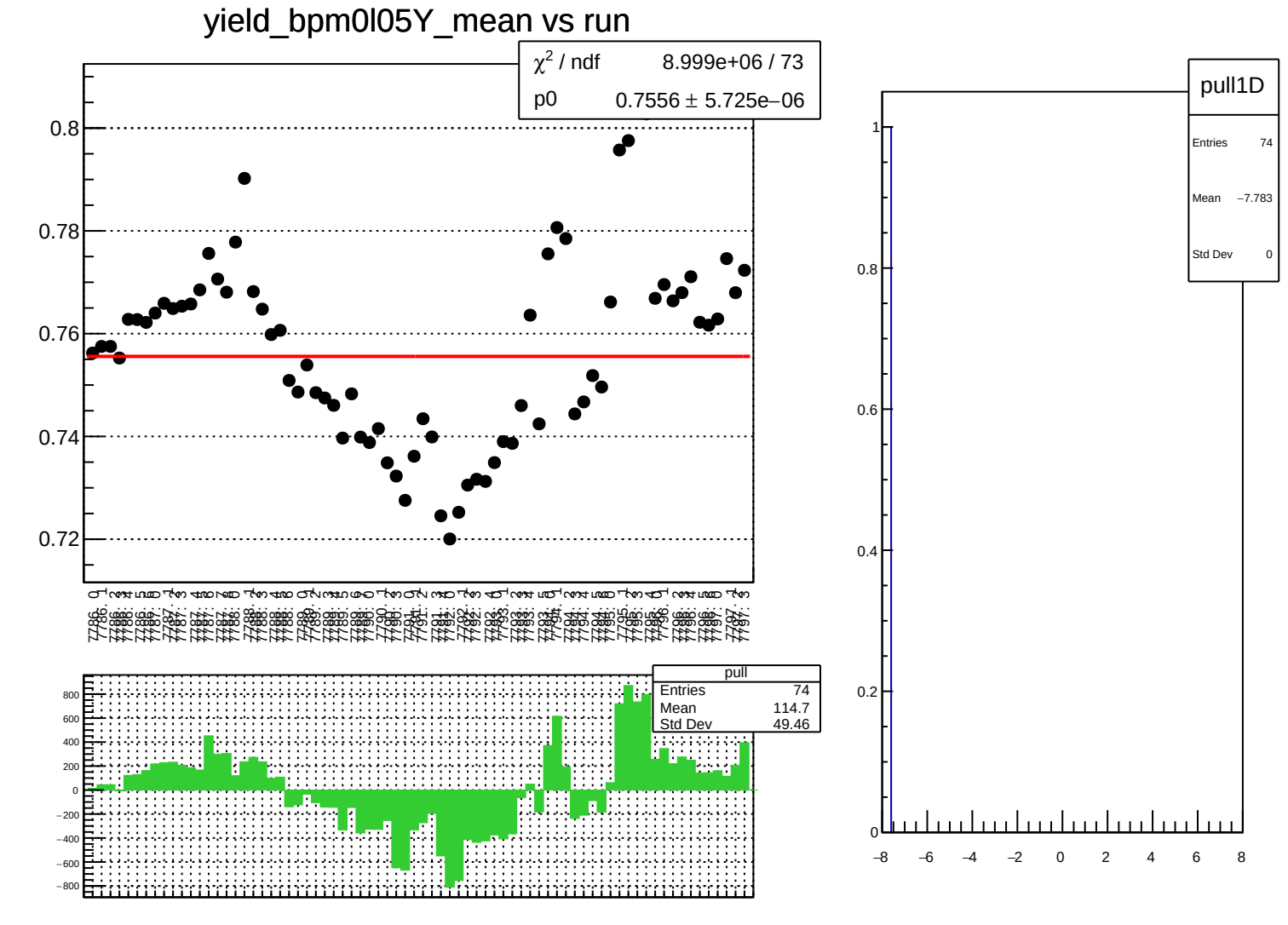

pull1D
Entries 74
Mean 1.351
Std Dev 4.508

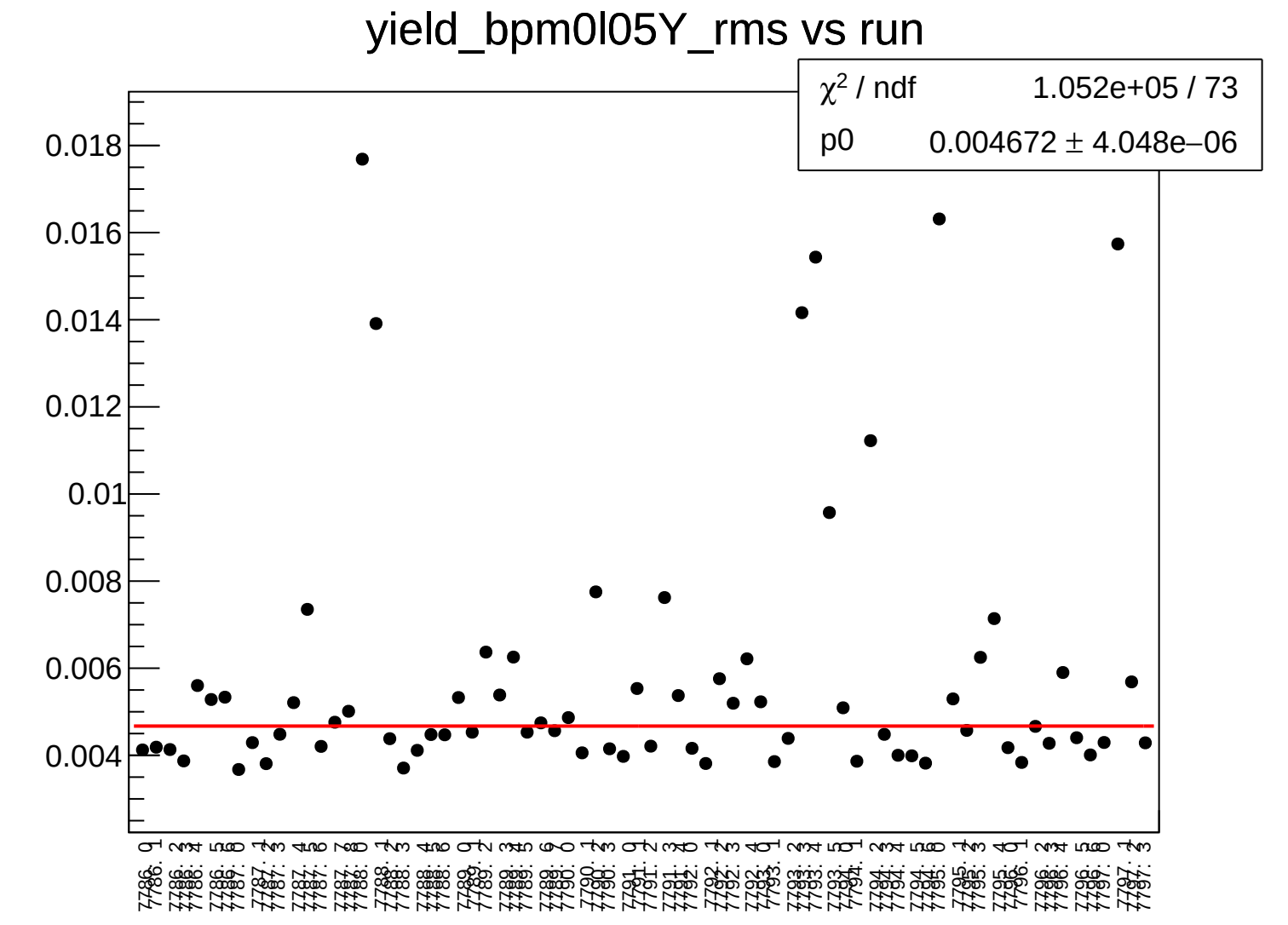

yield_bpm0l04Y_rms vs run
χ² / ndf 1.16e+05 / 73
p0 0.004551 ± 3.96e–06
0.025
0.02
0.015
0.01
0.005

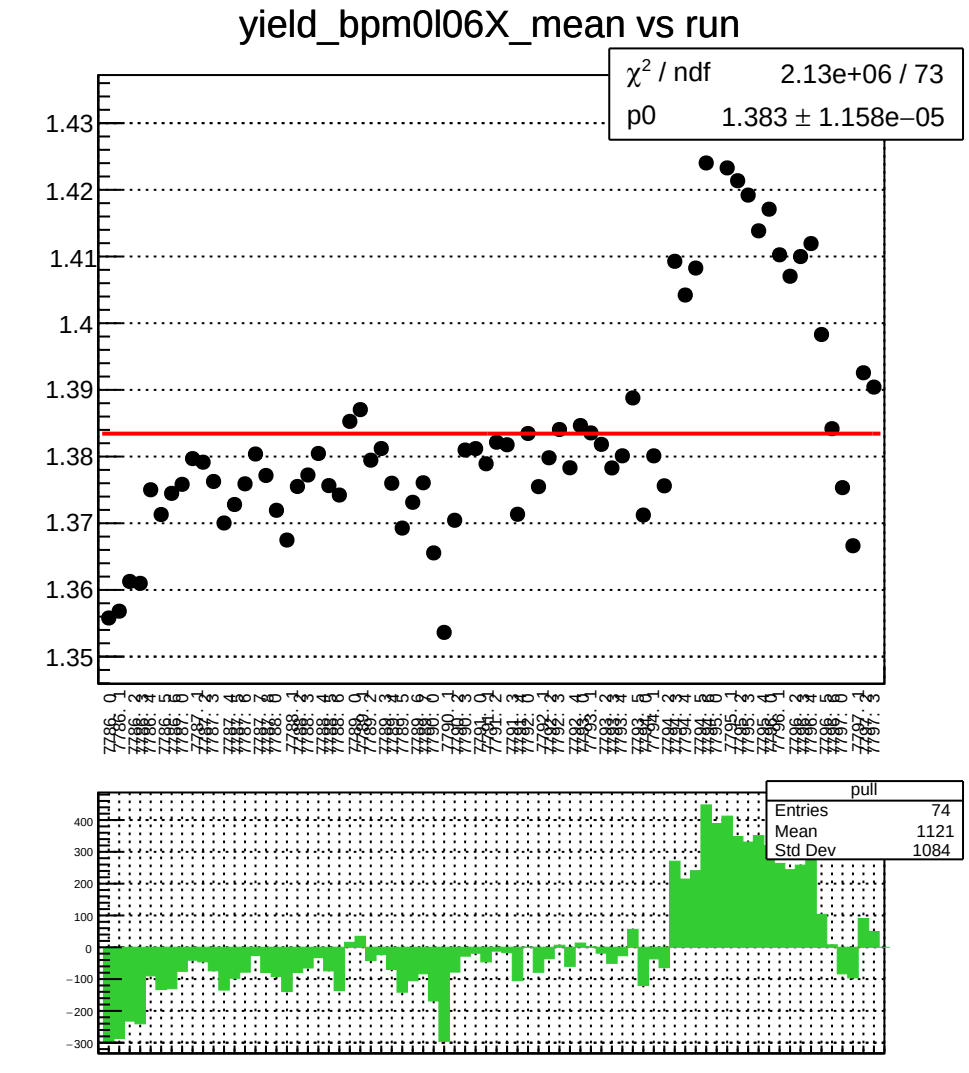

yield_bpm0l05X_mean vs run
χ² / ndf 1.515e+07 / 73
p0 0.5054 ± 3.77e−06
0.54
0.53
0.52
0.51
0.5
0.49
0.48
pull
Entries 74
Mean −955.8
Std Dev 979.4
800
600
400
200
0
−200
−400
−600
−800
−1000

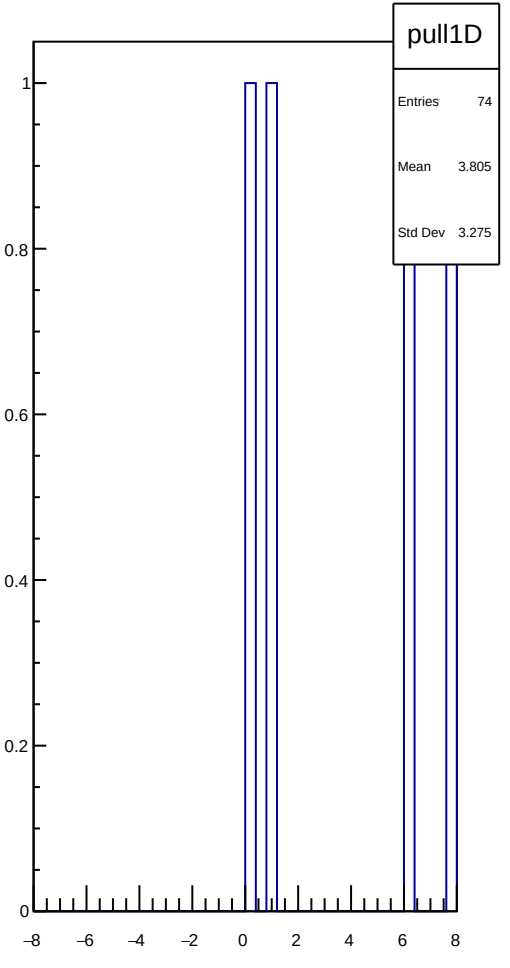

pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

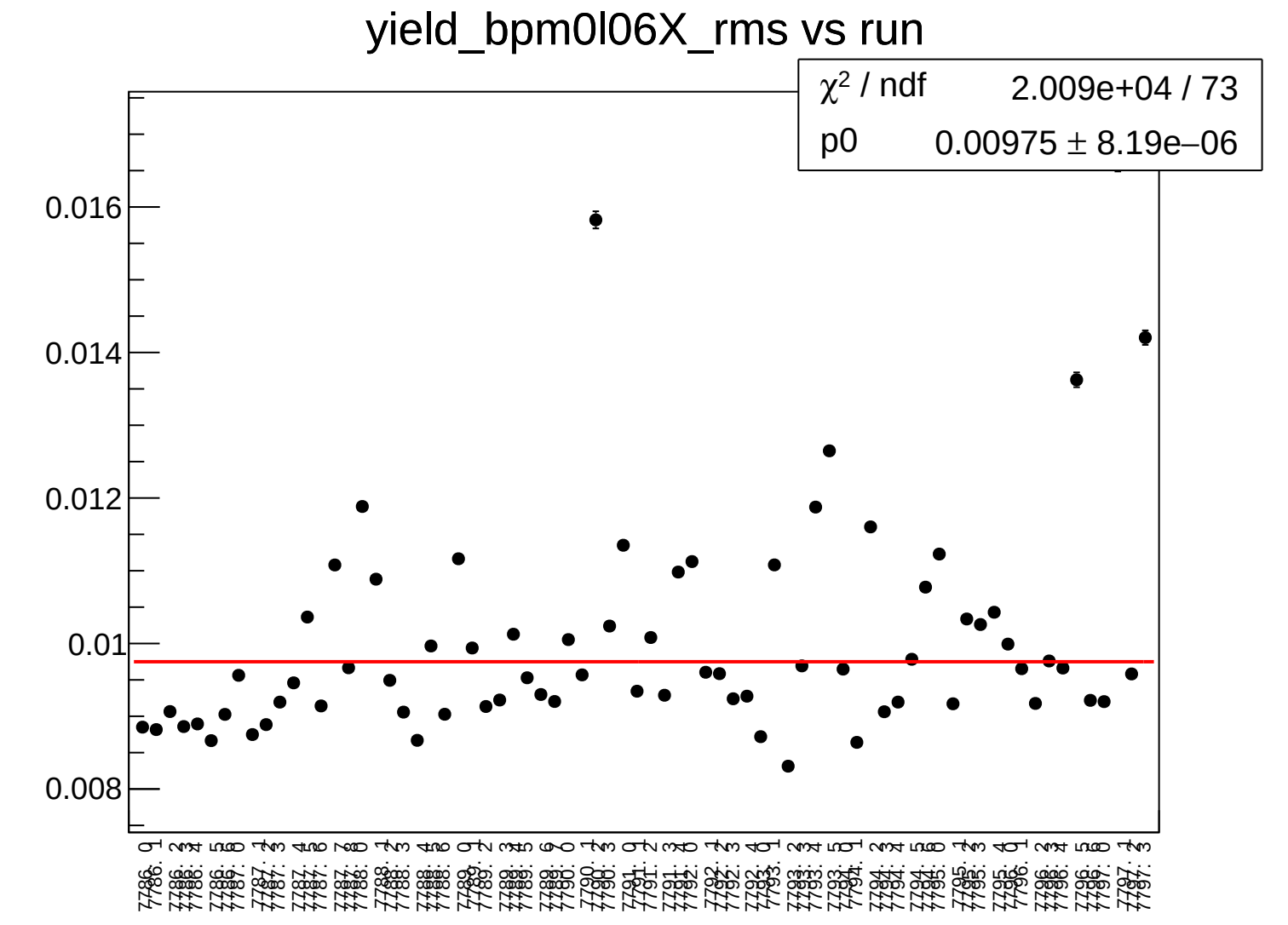

yield_bpm0l05X_rms vs run
χ^2 / ndf 3.281e+04 / 73
p0 0.003159 ± 2.666e−06
0.0065
0.006
0.0055
0.005
0.0045
0.004
0.0035
0.003
0.0025

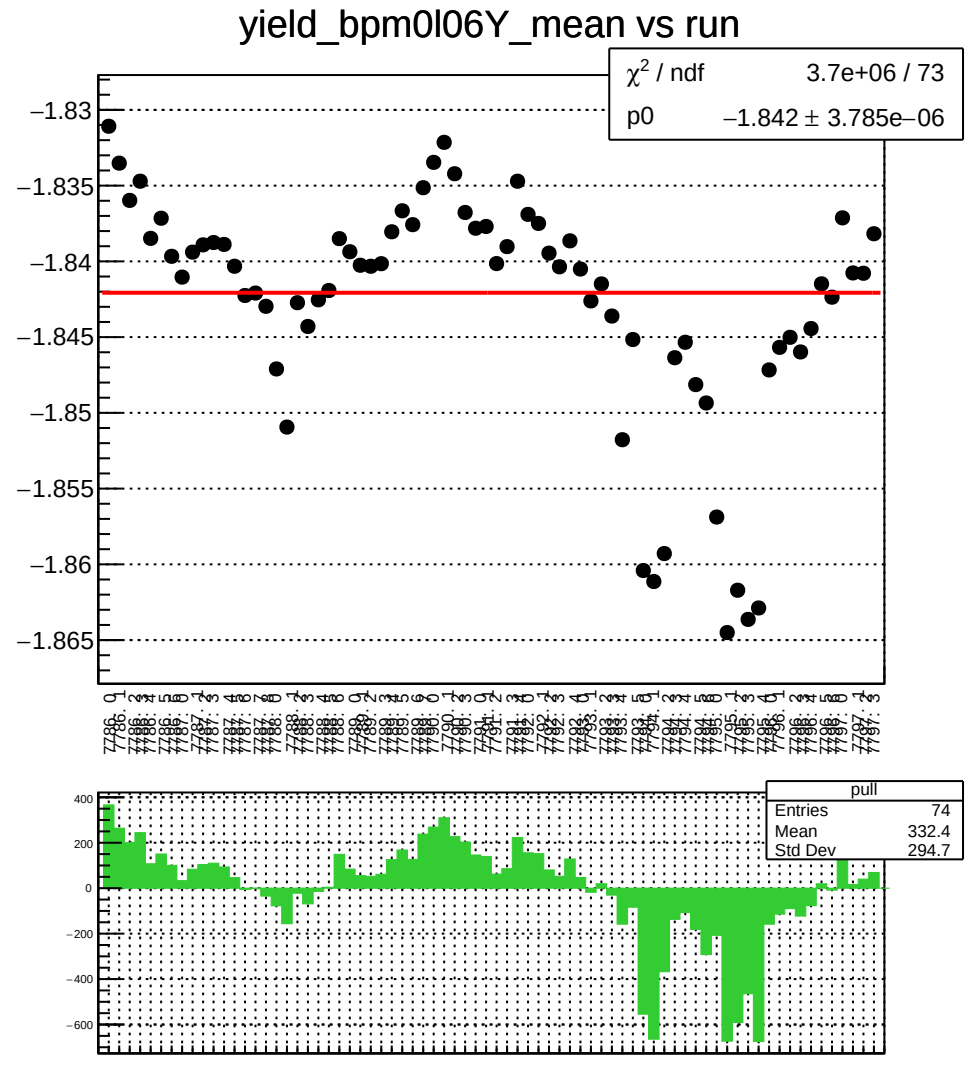

yield_bpm0l05Y_mean vs run
χ² / ndf 8.999e+06 / 73
p0 0.7556 ± 5.725e−06
0.8
0.78
0.76
0.74
0.72
pull
Entries 74
Mean 114.7
Std Dev 49.46
800
600
400
200
0
−200
−400
−600
−800
pull1D
Entries 74
Mean −7.783
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

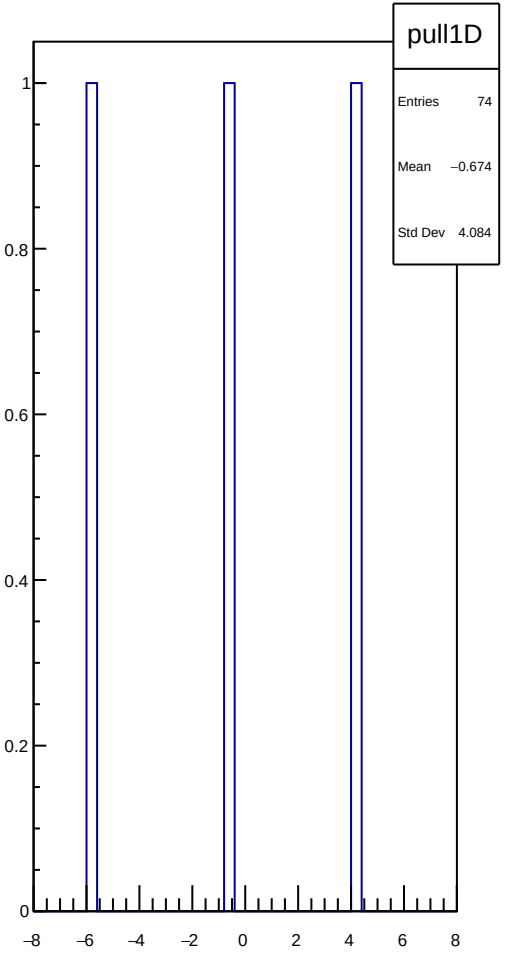

yield_bpm0l05Y_rms vs run
χ² / ndf 1.052e+05 / 73
p0 0.004672 ± 4.048e−06
0.018
0.016
0.014
0.012
0.01
0.008
0.006
0.004

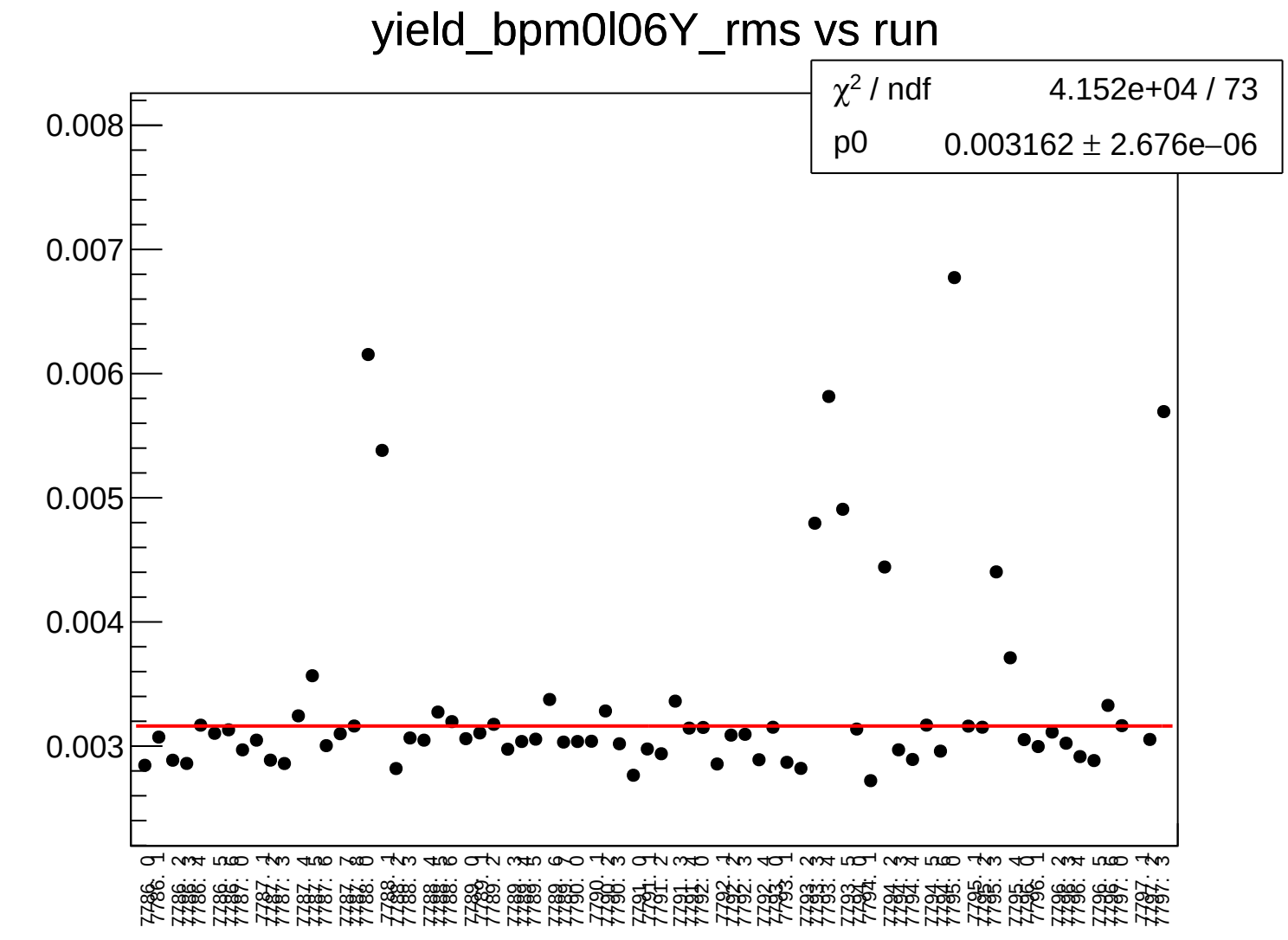

yield_bpm0l06X_mean vs run
χ² / ndf 2.13e+06 / 73
p0 1.383 ± 1.158e−05
1.43
1.42
1.41
1.4
1.39
1.38
1.37
1.36
1.35
pull
Entries 74
Mean 1121
Std Dev 1084
400
300
200
100
0
−100
−200
−300

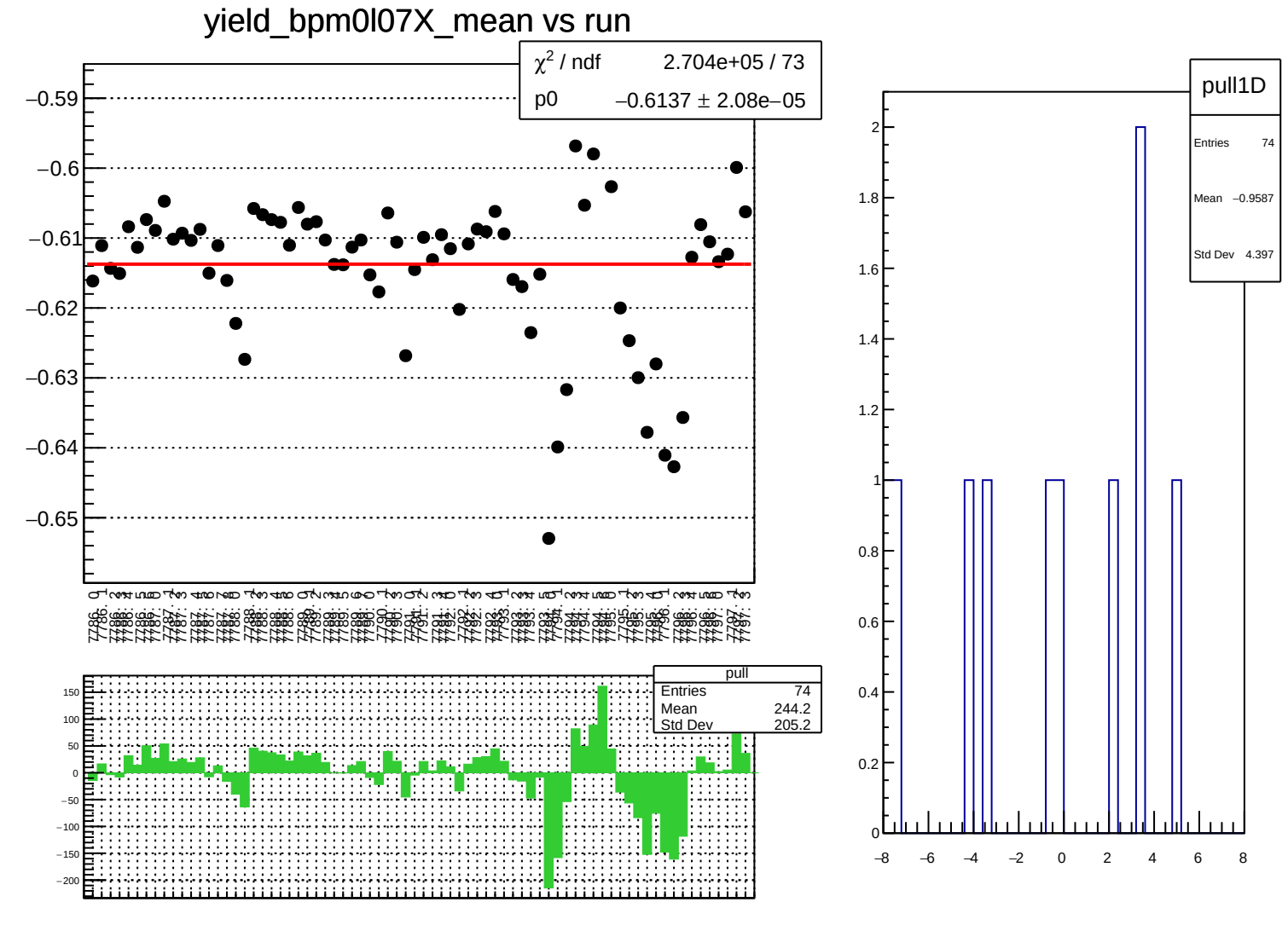

pull1D
Entries 74
Mean 3.805
Std Dev 3.275
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

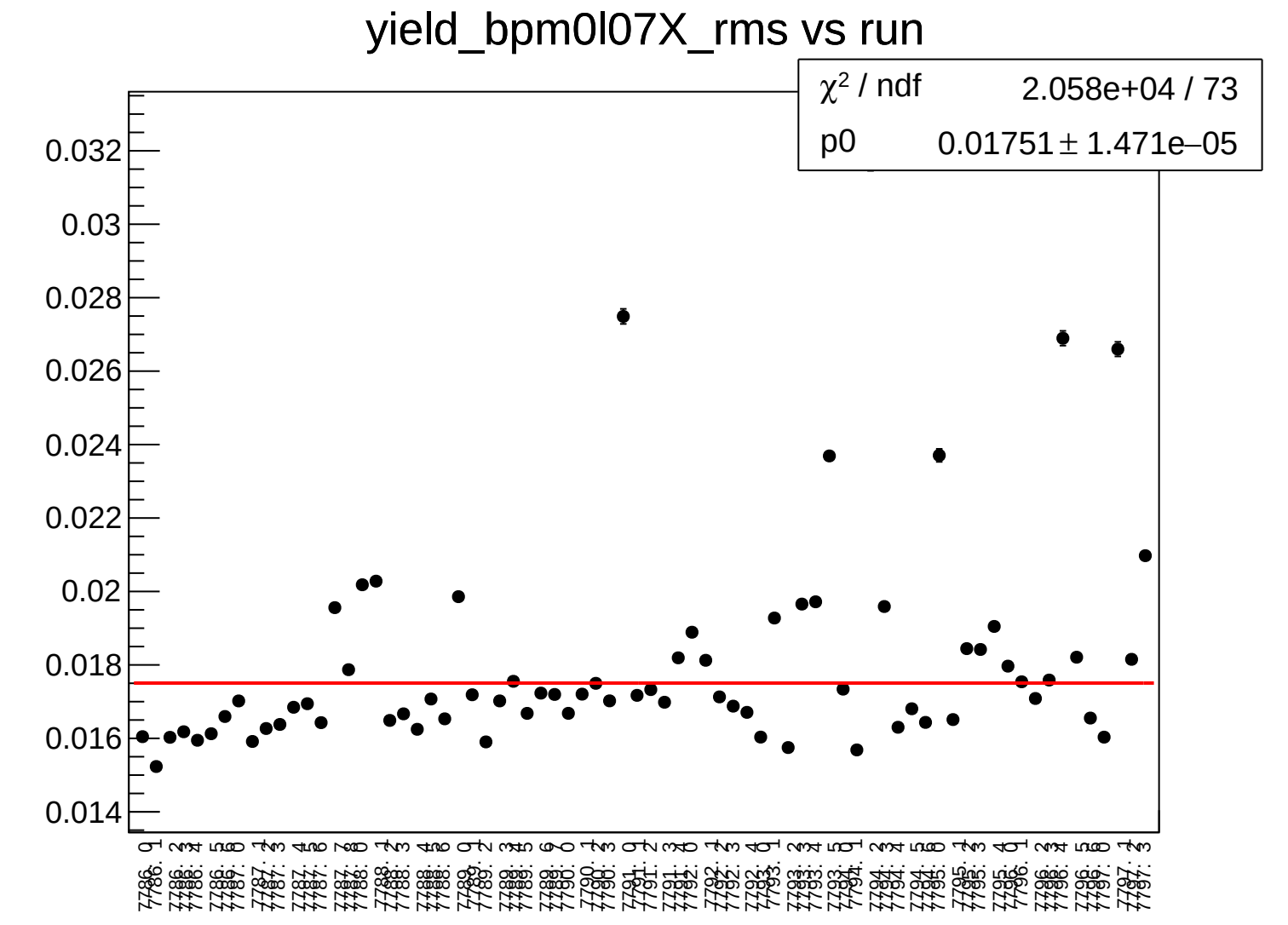

yield_bpm0l06X_rms vs run
χ² / ndf 2.009e+04 / 73
p0 0.00975 ± 8.19e−06
0.016
0.014
0.012
0.01
0.008

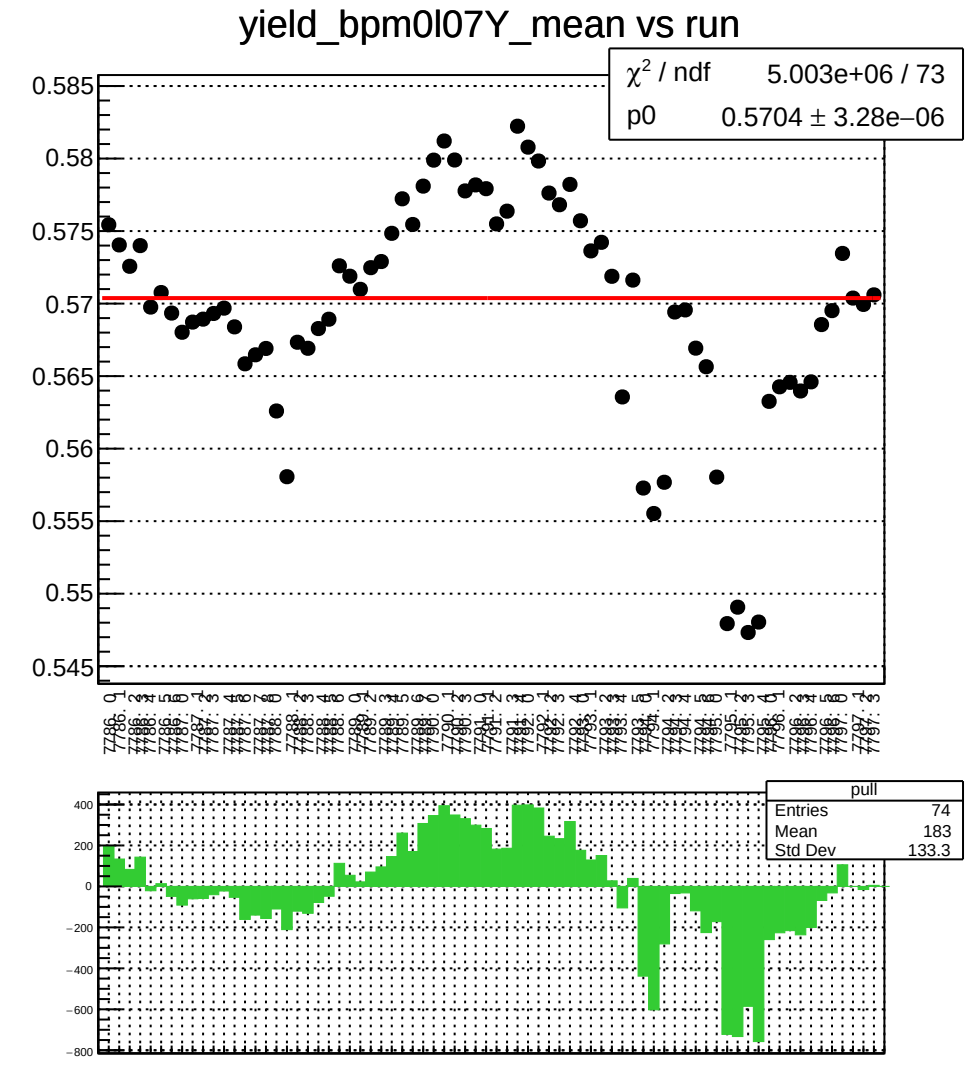

yield_bpm0l06Y_mean vs run
χ² / ndf 3.7e+06 / 73
p0 −1.842 ± 3.785e−06
−1.83
−1.835
−1.84
−1.845
−1.85
−1.855
−1.86
−1.865
pull
Entries 74
Mean 332.4
Std Dev 294.7
400
200
0
−200
−400
−600

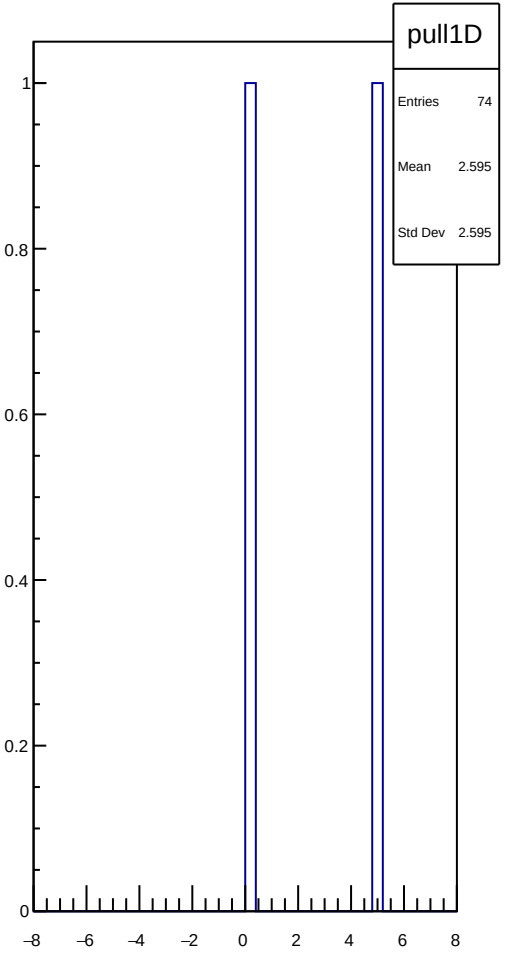

pull1D
Entries 74
Mean −0.674
Std Dev 4.084
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

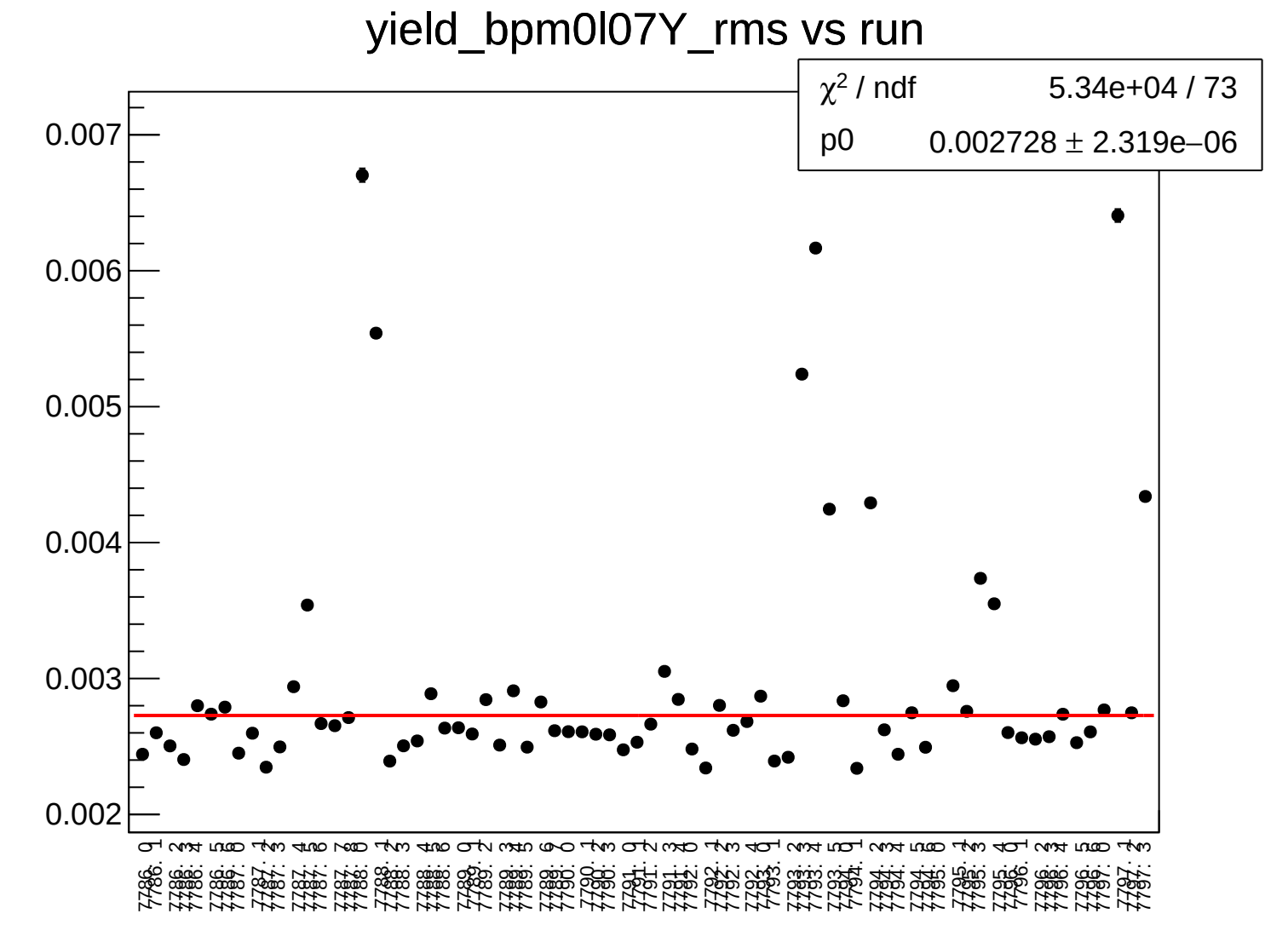

yield_bpm0l06Y_rms vs run
χ^2 / ndf 4.152e+04 / 73
p0 0.003162 ± 2.676e−06
0.008
0.007
0.006
0.005
0.004
0.003

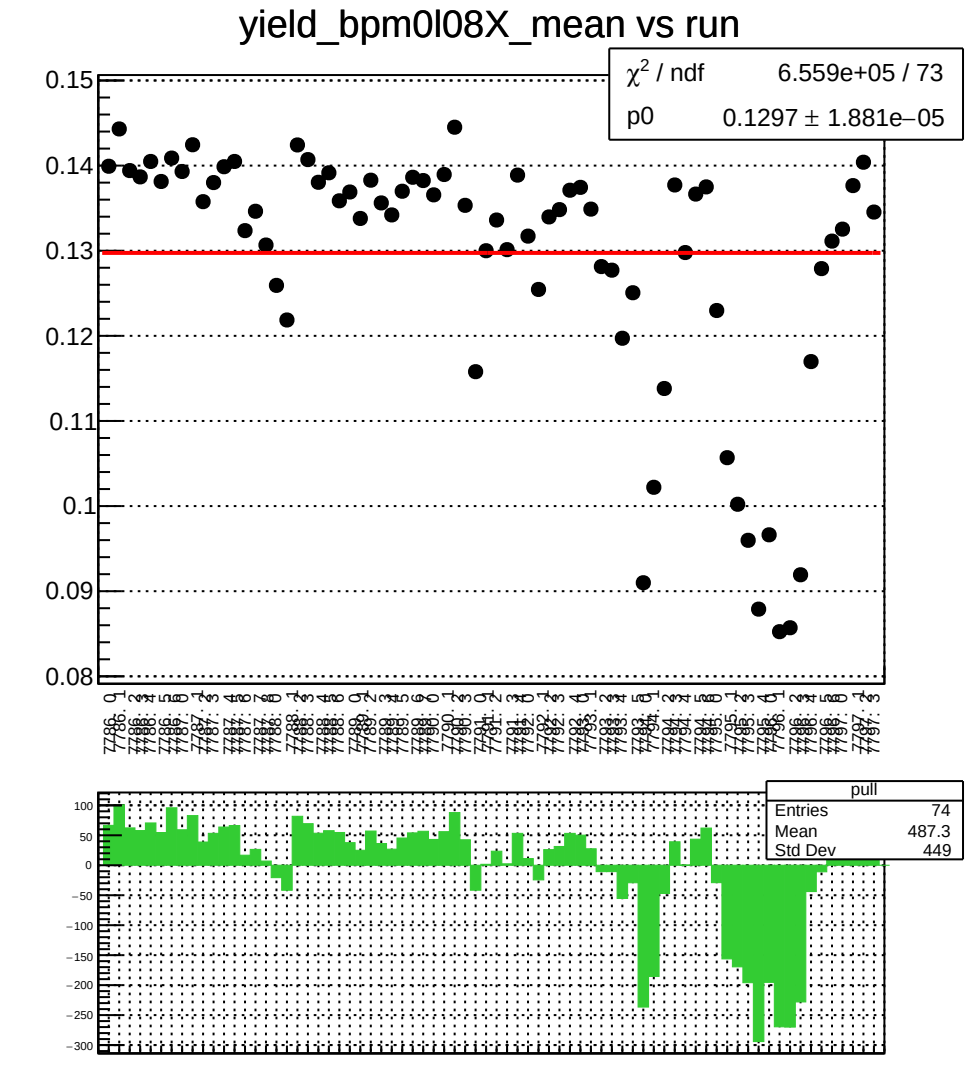

yield_bpm0l07X_mean vs run
χ² / ndf 2.704e+05 / 73
p0 −0.6137 ± 2.08e−05
−0.59
−0.6
−0.61
−0.62
−0.63
−0.64
−0.65
pull
Entries 74
Mean 244.2
Std Dev 205.2
150
100
50
0
−50
−100
−150
−200
pull1D
Entries 74
Mean −0.9587
Std Dev 4.397
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

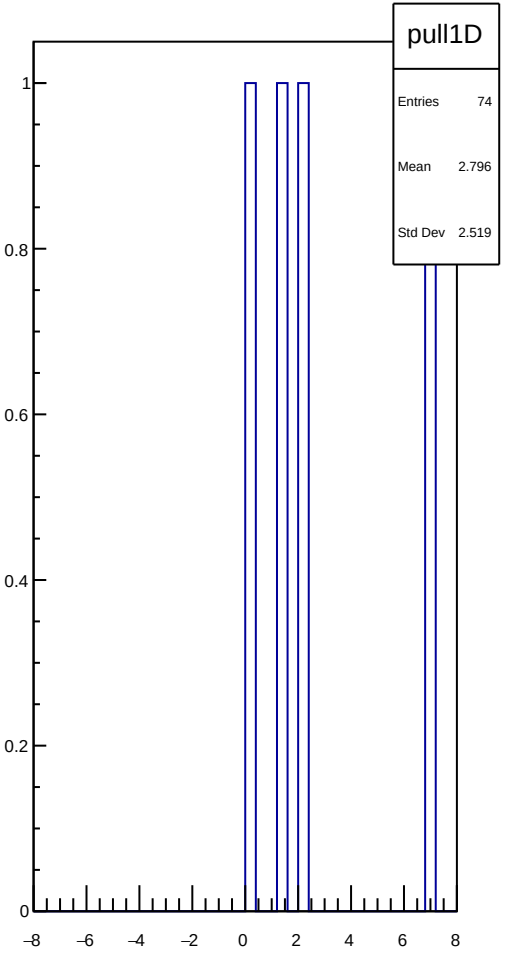

yield_bpm0l07X_rms vs run
χ² / ndf 2.058e+04 / 73
p0 0.01751 ± 1.471e–05
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014

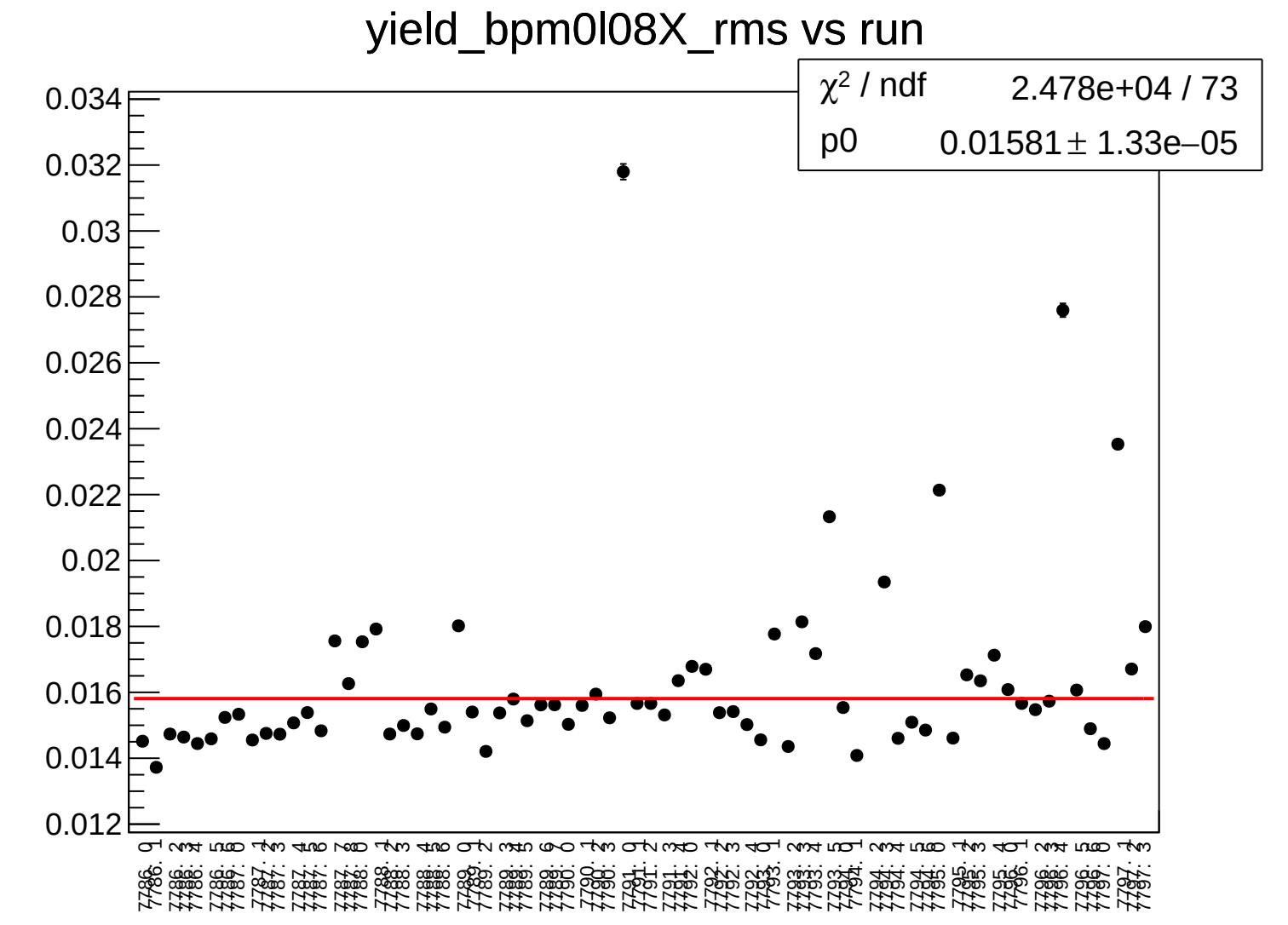

yield_bpm0l07Y_mean vs run
χ² / ndf 5.003e+06 / 73
p0 0.5704 ± 3.28e−06
0.585
0.58
0.575
0.57
0.565
0.56
0.555
0.55
0.545
pull
Entries 74
Mean 183
Std Dev 133.3
400
200
0
−200
−400
−600
−800

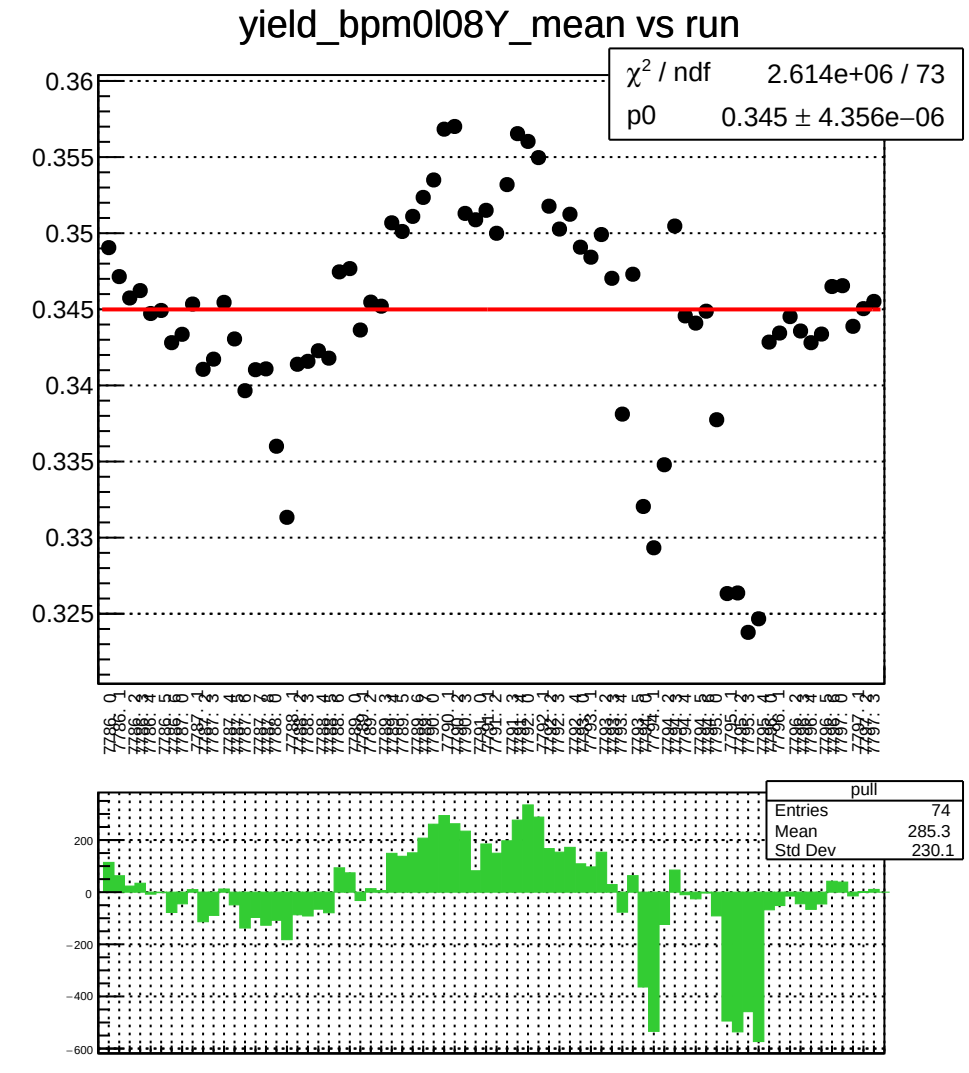

pull1D
Entries 74
Mean 2.595
Std Dev 2.595
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

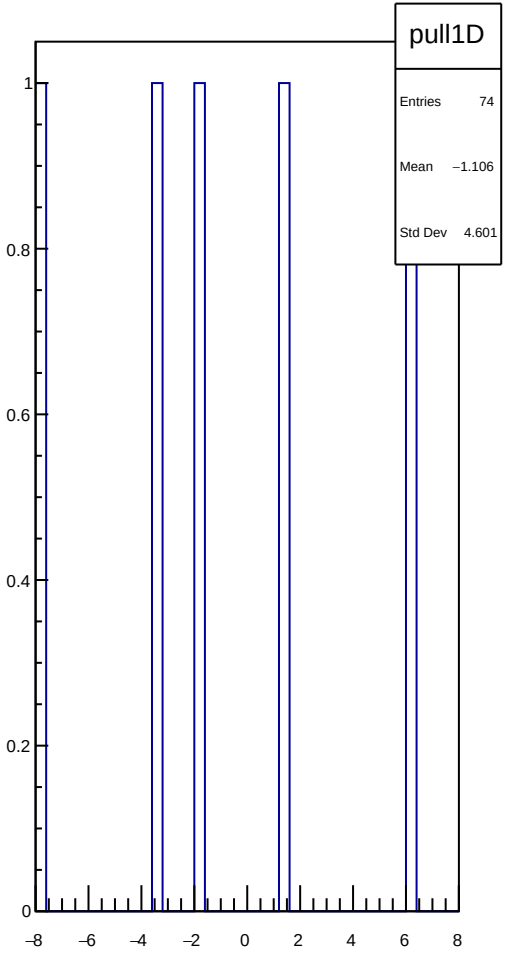

yield_bpm0l07Y_rms vs run
χ² / ndf 5.34e+04 / 73
p0 0.002728 ± 2.319e−06
0.007
0.006
0.005
0.004
0.003
0.002

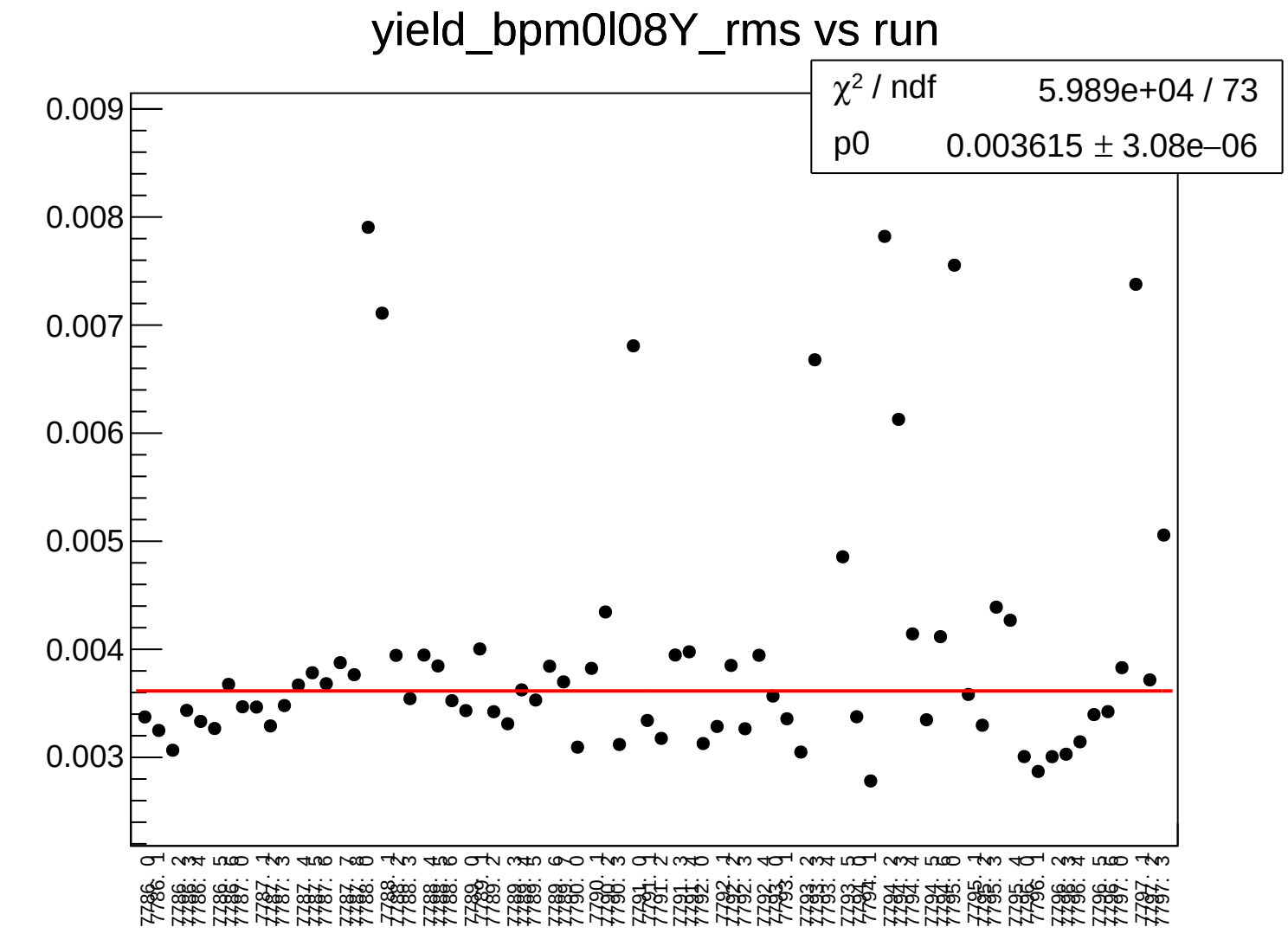

yield_bpm0l08X_mean vs run
χ² / ndf 6.559e+05 / 73
p0 0.1297 ± 1.881e−05
pull
Entries 74
Mean 487.3
Std Dev 449

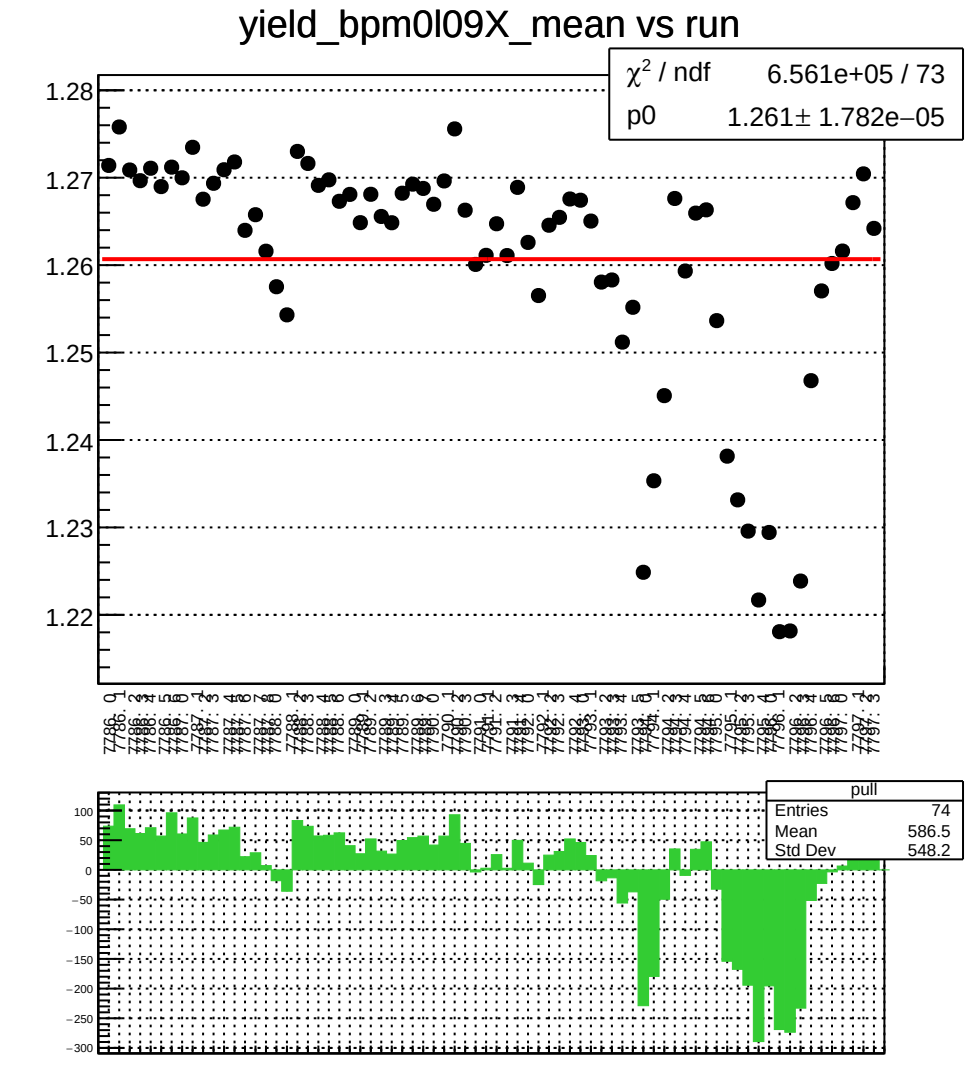

pull1D
Entries 74
Mean 2.796
Std Dev 2.519

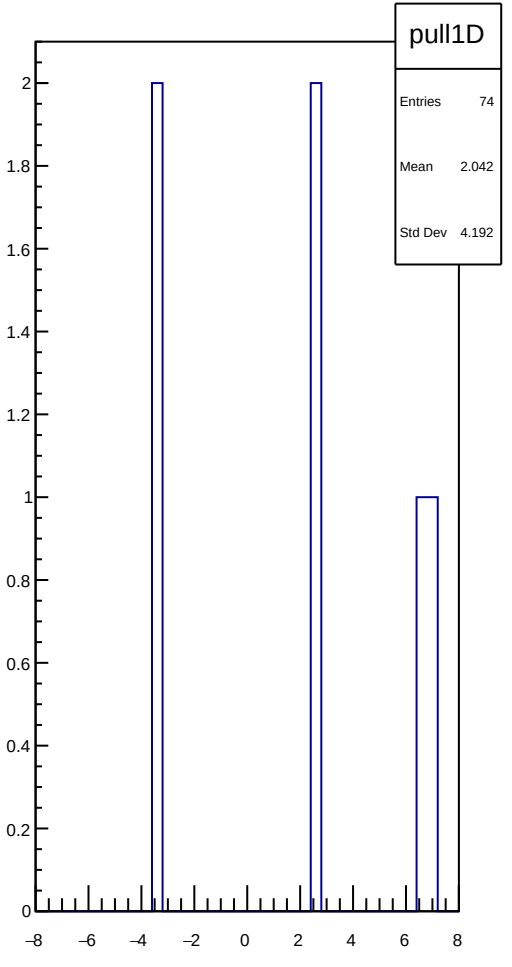

yield_bpm0l08X_rms vs run
χ² / ndf 2.478e+04 / 73
p0 0.01581 ± 1.33e−05
0.034
0.032
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

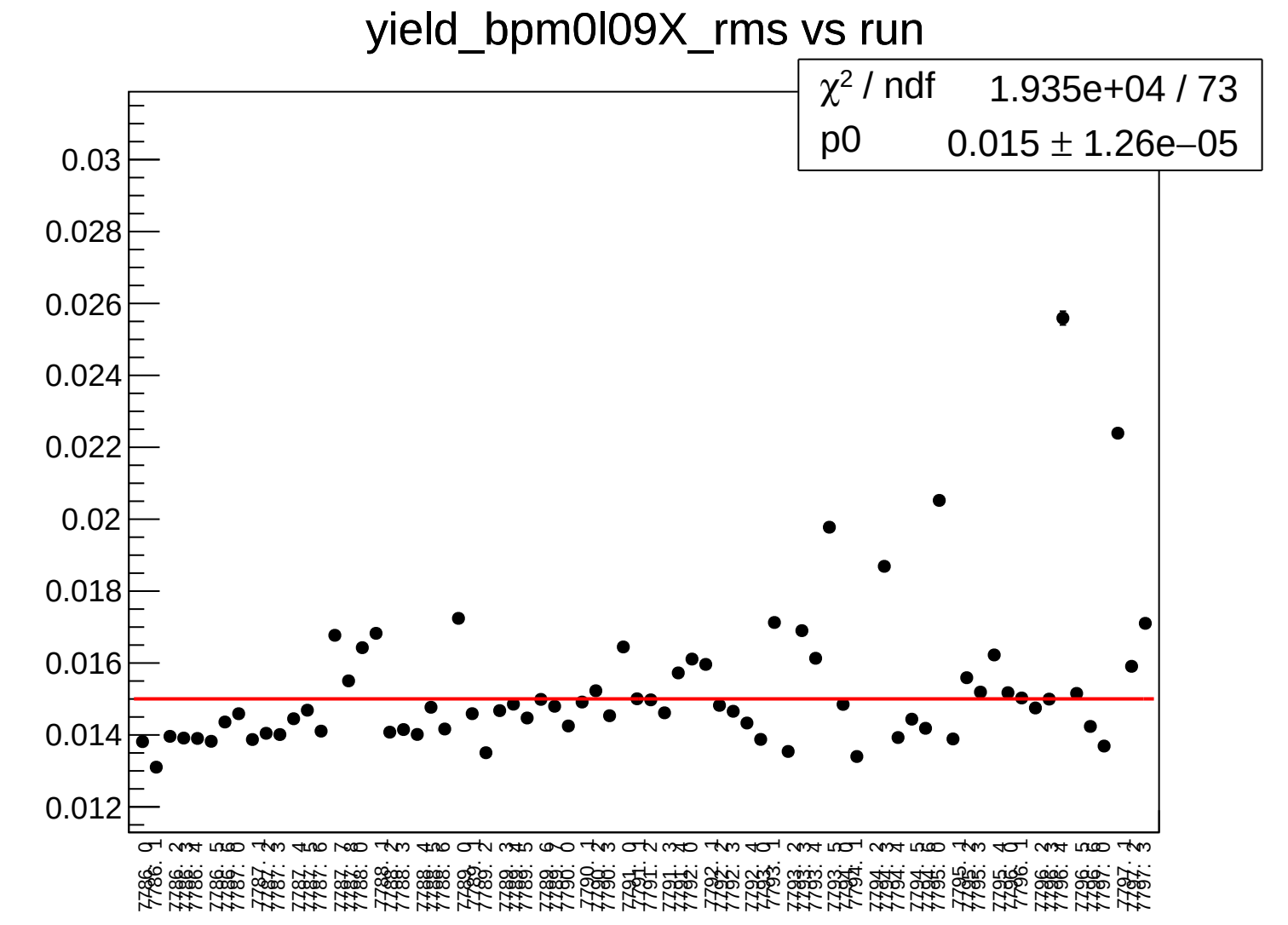

yield_bpm0l08Y_mean vs run
χ² / ndf 2.614e+06 / 73
p0 0.345 ± 4.356e−06
0.36
0.355
0.35
0.345
0.34
0.335
0.33
0.325
pull
Entries 74
Mean 285.3
Std Dev 230.1
200
0
−200
−400
−600

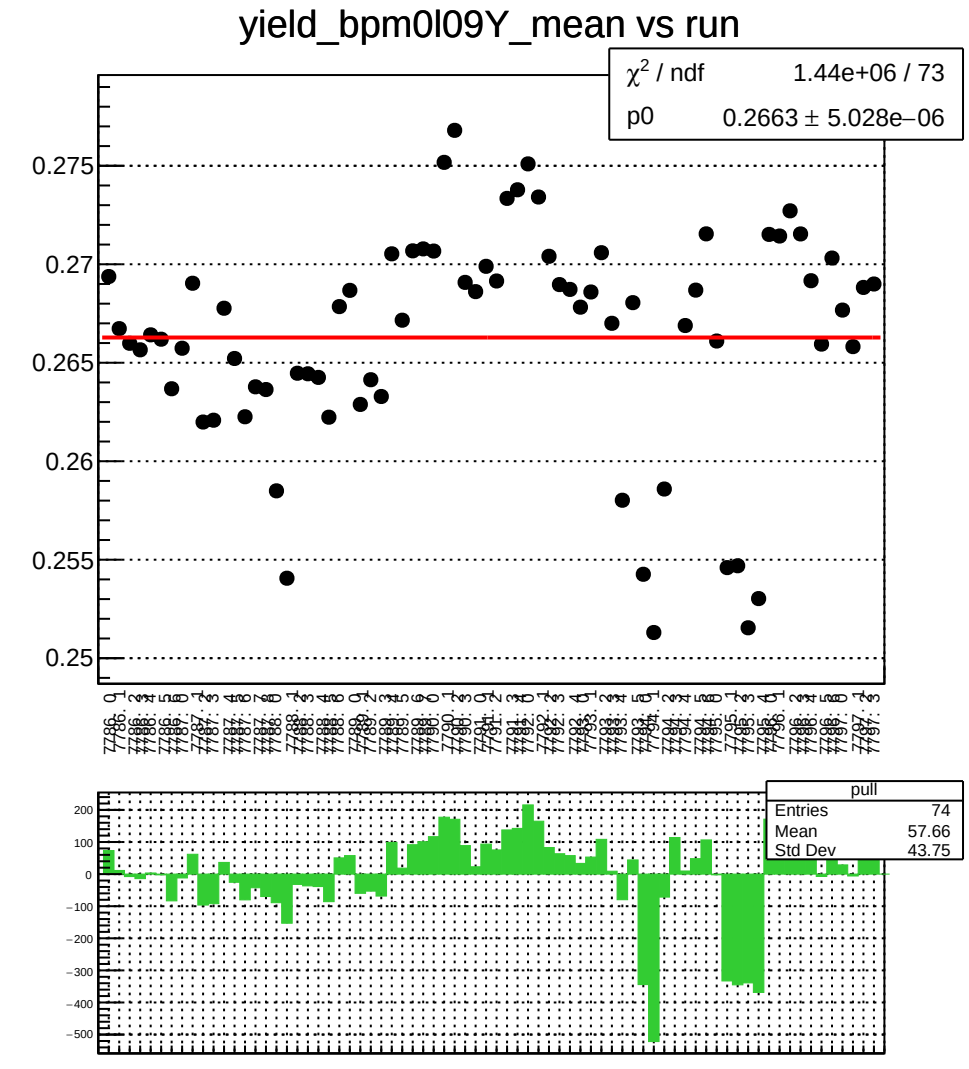

pull1D
Entries 74
Mean −1.106
Std Dev 4.601
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

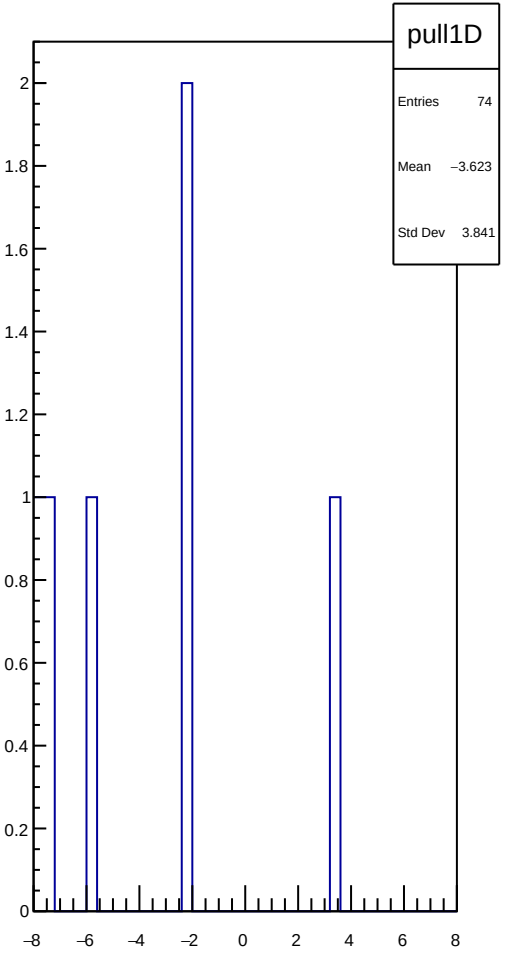

yield_bpm0l08Y_rms vs run
χ² / ndf 5.989e+04 / 73
p0 0.003615 ± 3.08e–06
0.009
0.008
0.007
0.006
0.005
0.004
0.003

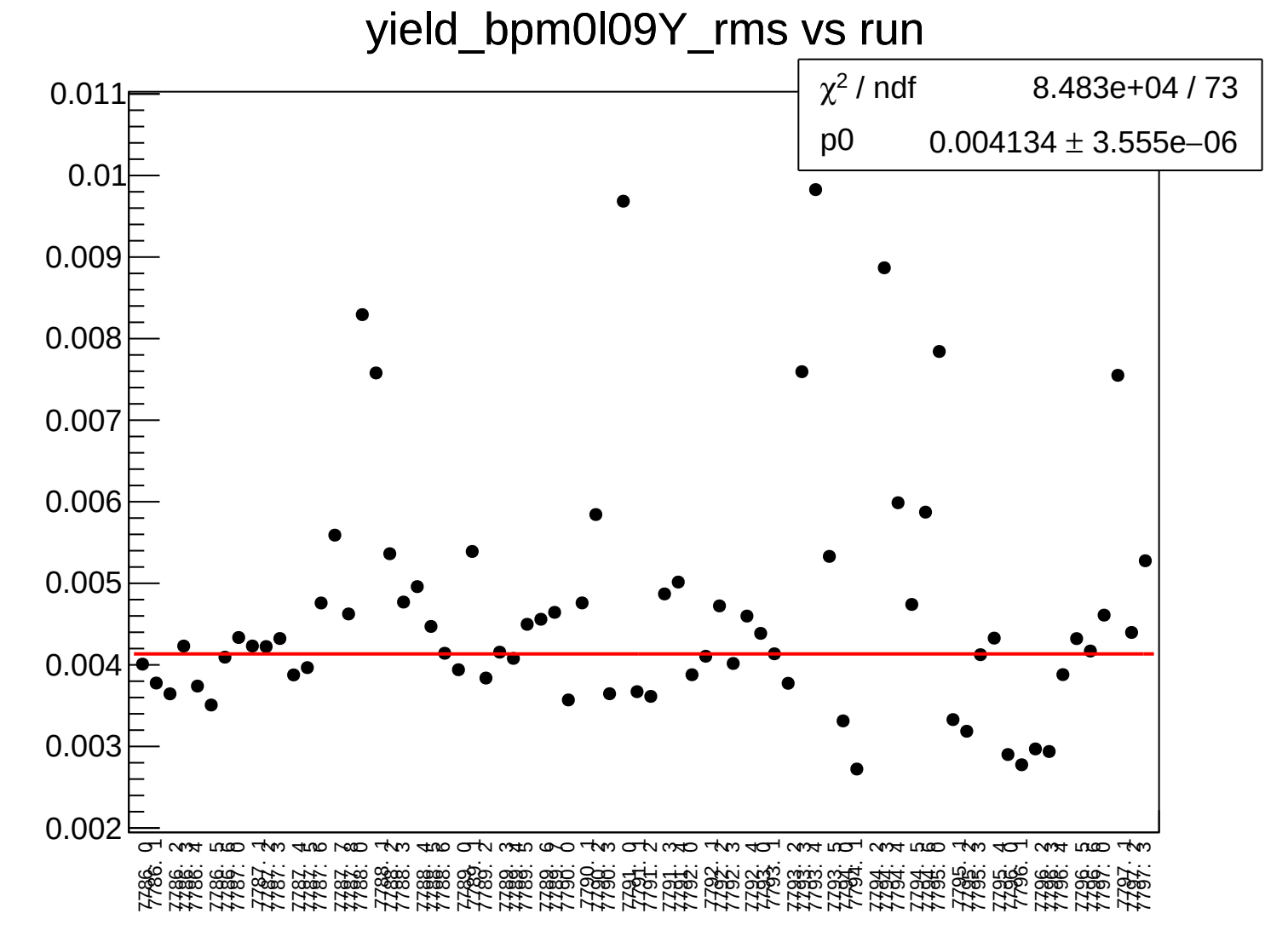

yield_bpm0l09X_mean vs run
χ² / ndf 6.561e+05 / 73
p0 1.261± 1.782e−05
1.28
1.27
1.26
1.25
1.24
1.23
1.22
pull
Entries 74
Mean 586.5
Std Dev 548.2
100
50
0
−50
−100
−150
−200
−250
−300

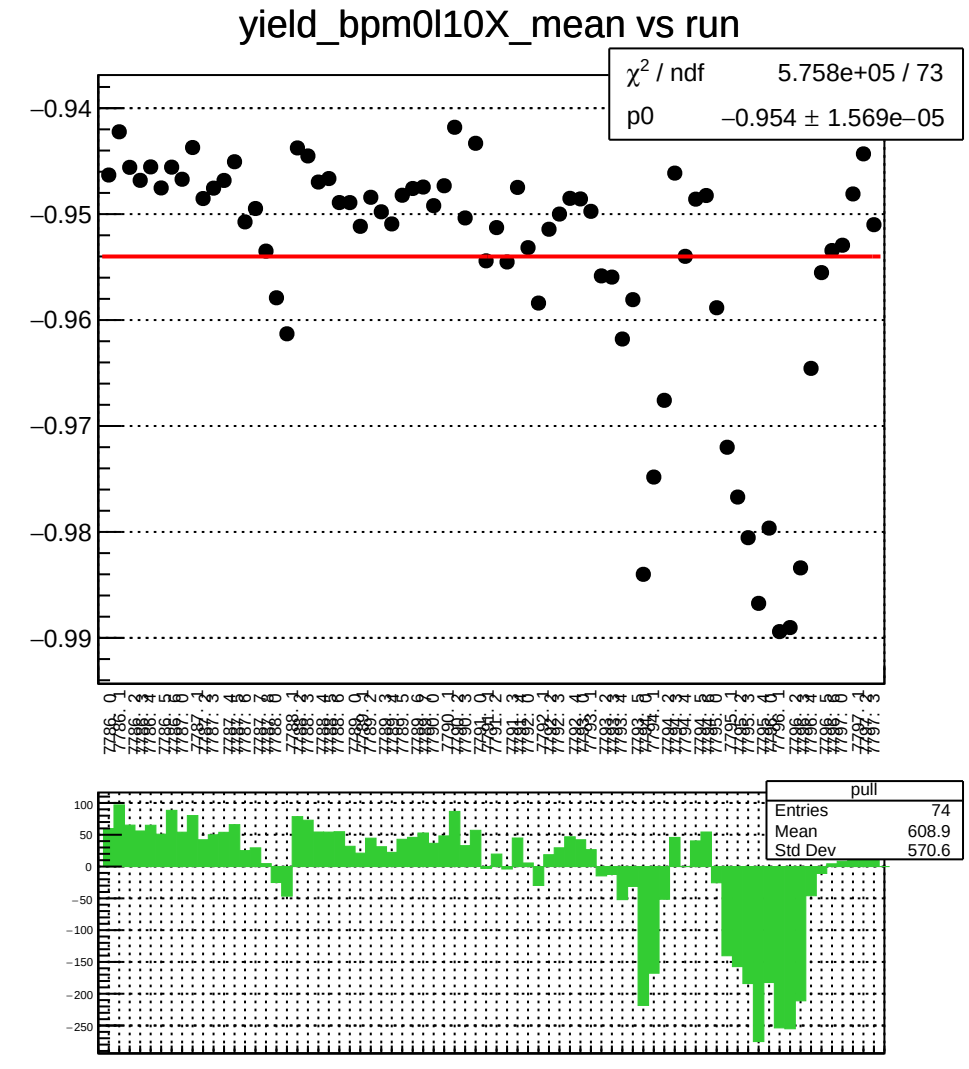

pull1D
Entries 74
Mean 2.042
Std Dev 4.192
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

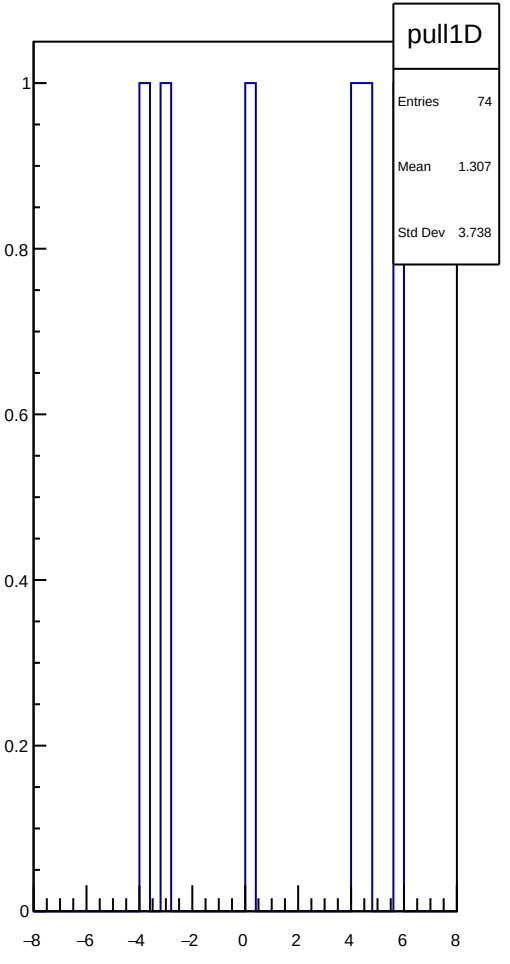

yield_bpm0l09X_rms vs run
χ² / ndf 1.935e+04 / 73
p0 0.015 ± 1.26e−05
0.03
0.028
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

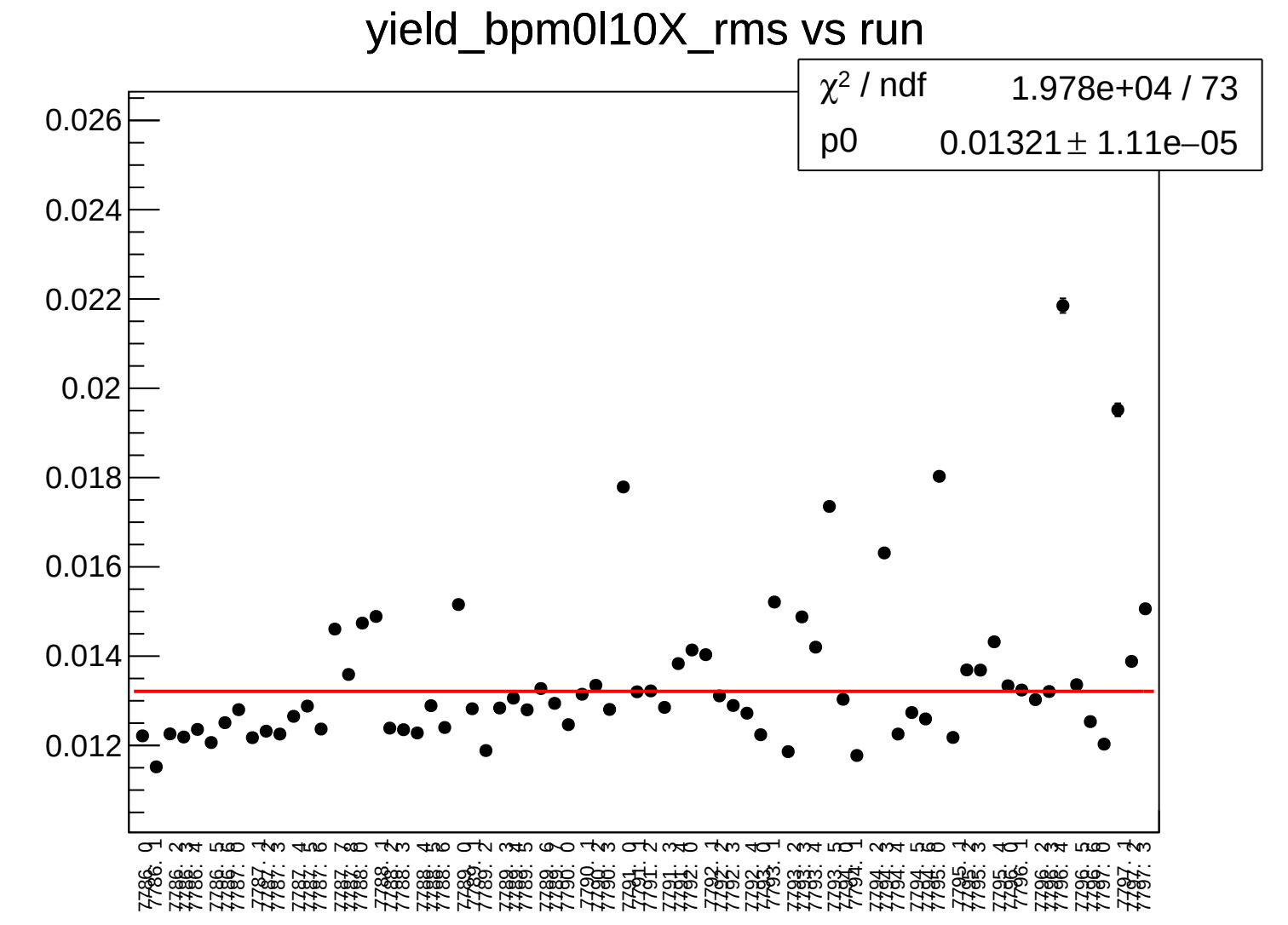

yield_bpm0l09Y_mean vs run
χ² / ndf 1.44e+06 / 73
p0 0.2663 ± 5.028e−06
0.275
0.27
0.265
0.26
0.255
0.25
pull
Entries 74
Mean 57.66
Std Dev 43.75
200
100
0
−100
−200
−300
−400
−500

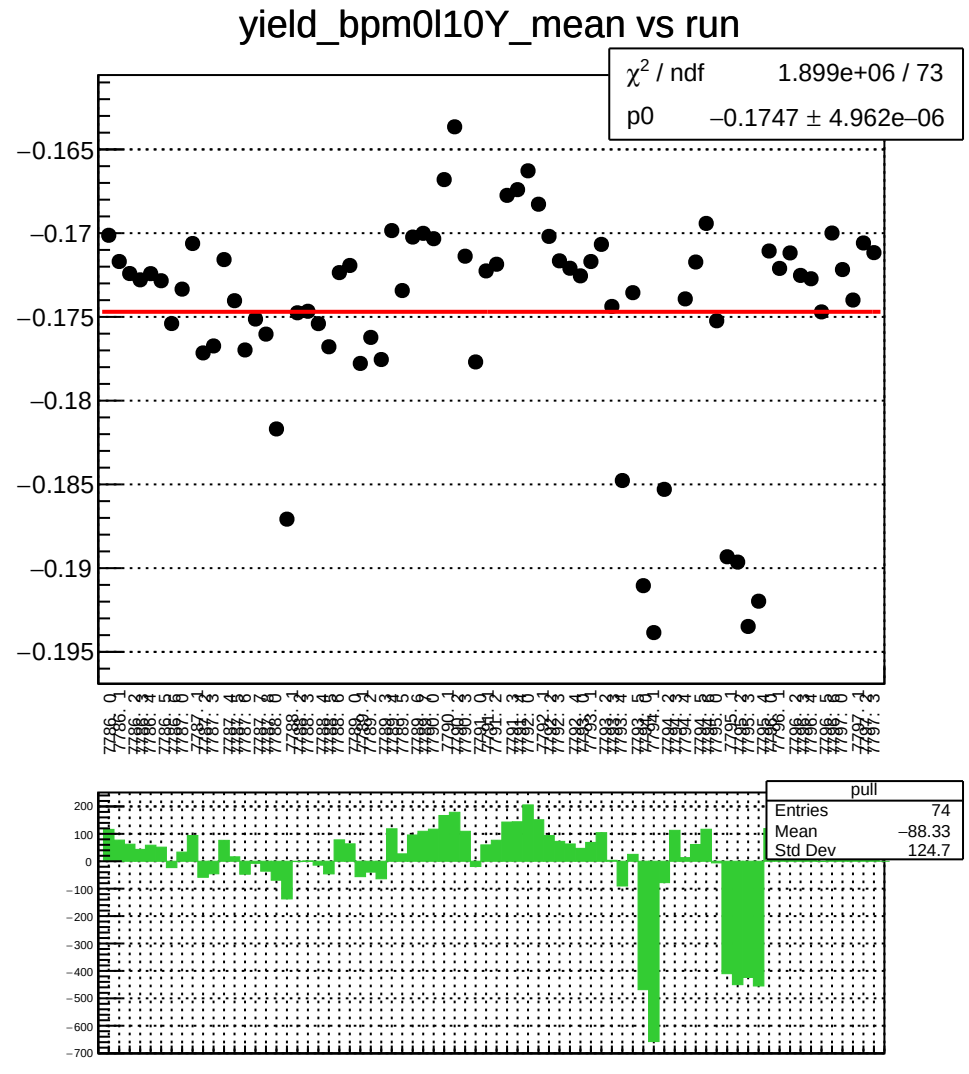

pull1D
Entries 74
Mean −3.623
Std Dev 3.841
2
1.8
1.6
1.4
1.2
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

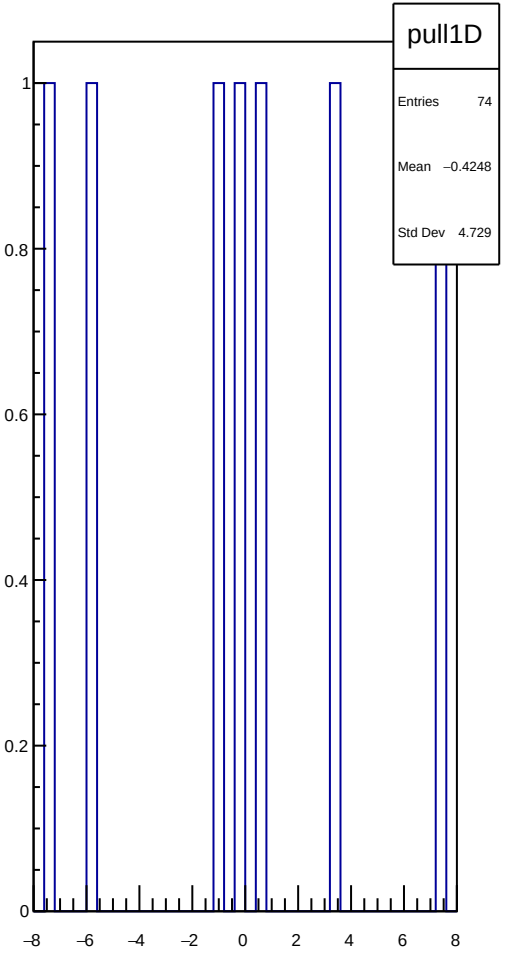

yield_bpm0l09Y_rms vs run
χ² / ndf 8.483e+04 / 73
p0 0.004134 ± 3.555e−06
0.011
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002

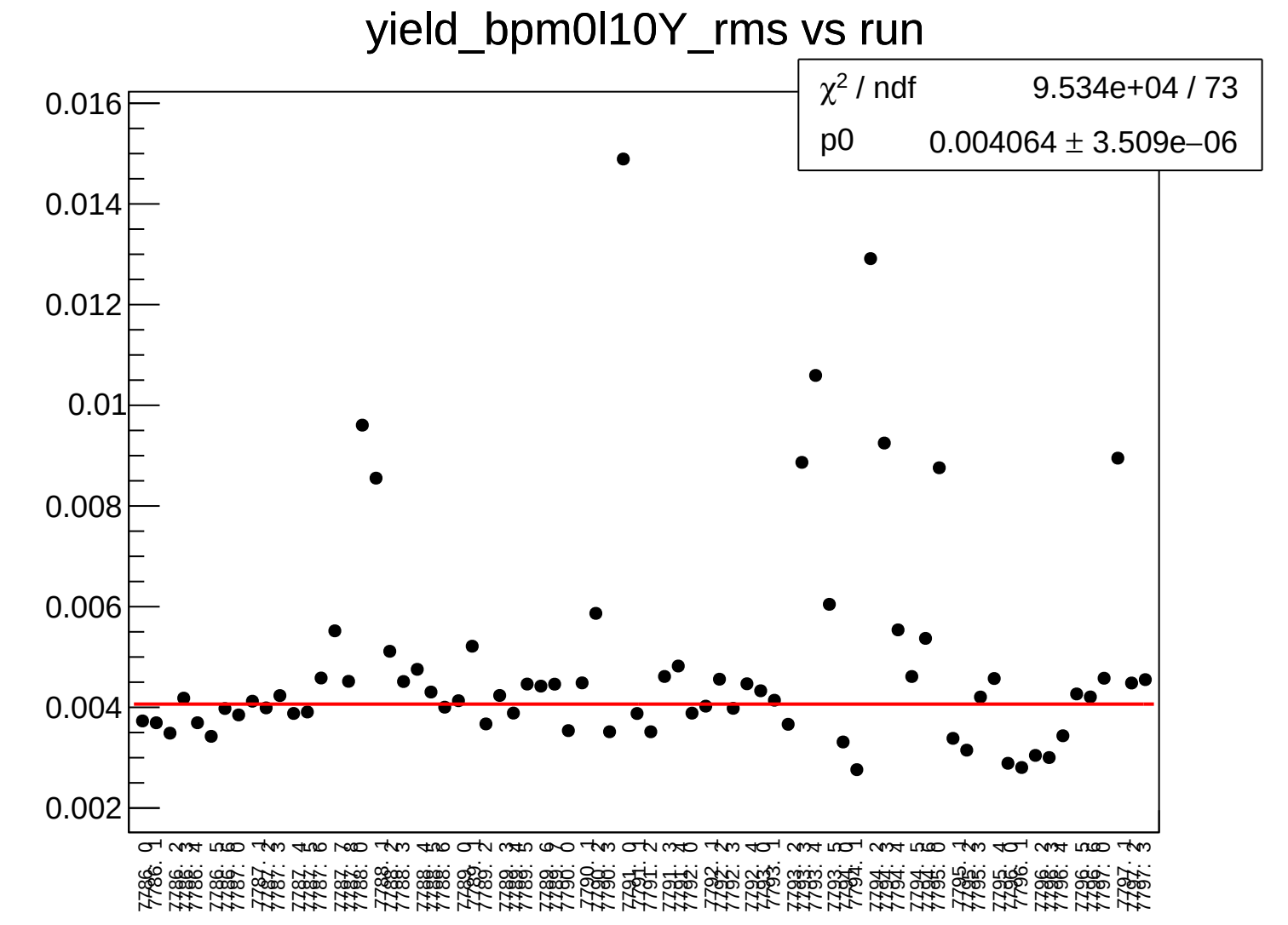

yield_bpm0l10X_mean vs run
χ² / ndf 5.758e+05 / 73
p0 −0.954 ± 1.569e−05
−0.94
−0.95
−0.96
−0.97
−0.98
−0.99
pull
Entries 74
Mean 608.9
Std Dev 570.6
100
50
0
−50
−100
−150
−200
−250

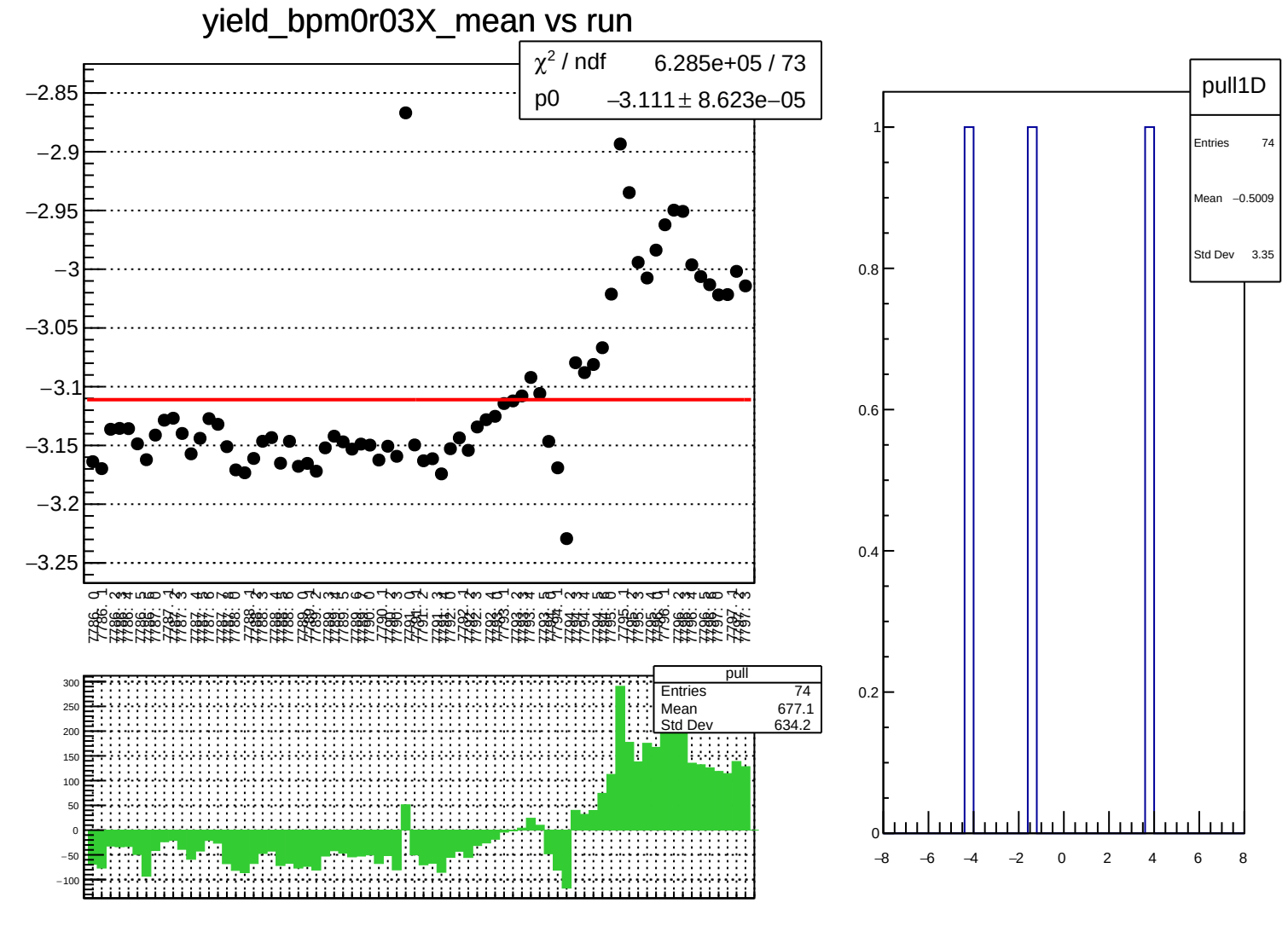

pull1D
Entries 74
Mean 1.307
Std Dev 3.738
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

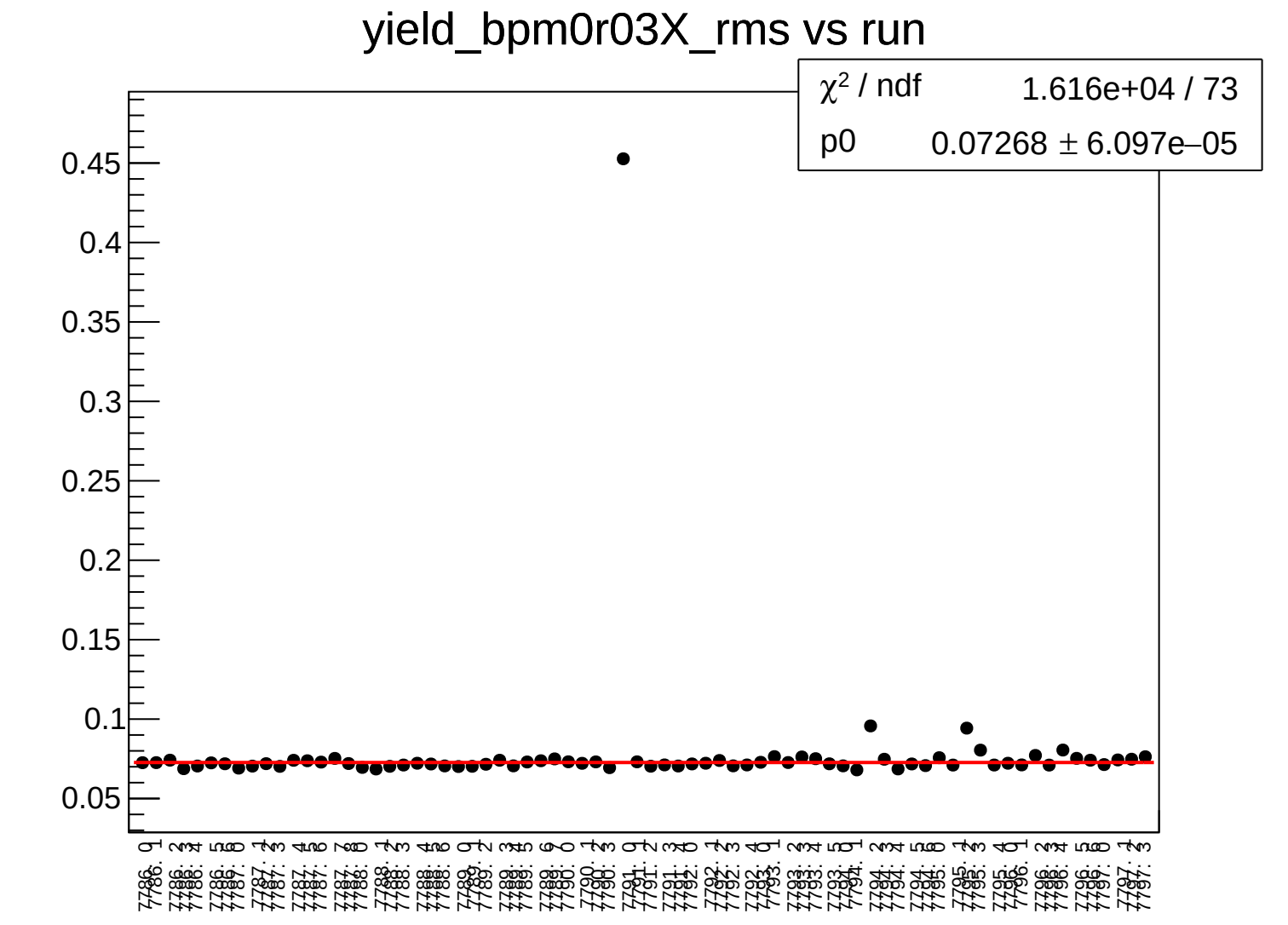

yield_bpm0l10X_rms vs run
χ² / ndf 1.978e+04 / 73
p0 0.01321 ± 1.11e−05
0.026
0.024
0.022
0.02
0.018
0.016
0.014
0.012

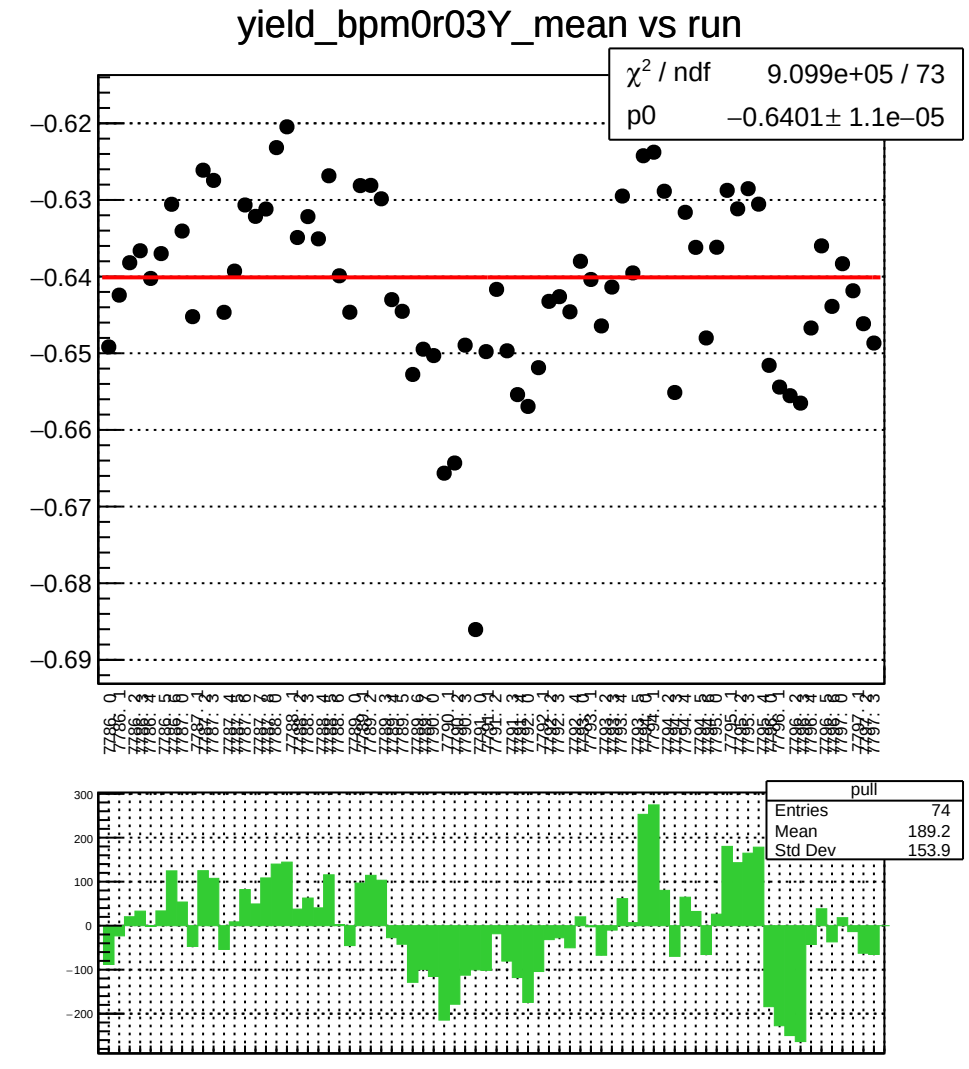

yield_bpm0l10Y_mean vs run
χ² / ndf 1.899e+06 / 73
p0 −0.1747 ± 4.962e−06
−0.165
−0.17
−0.175
−0.18
−0.185
−0.19
−0.195
pull
Entries 74
Mean −88.33
Std Dev 124.7
200
100
0
−100
−200
−300
−400
−500
−600
−700

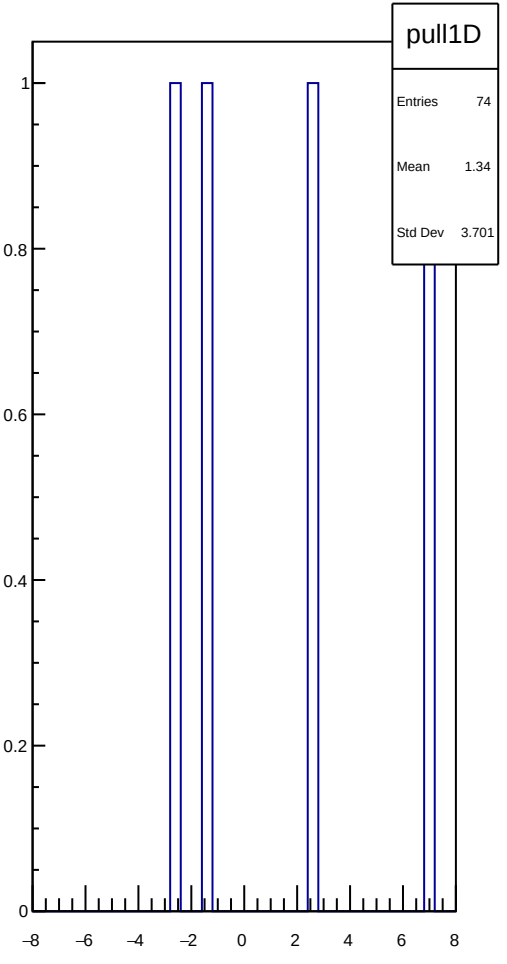

pull1D
Entries 74
Mean −0.4248
Std Dev 4.729
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

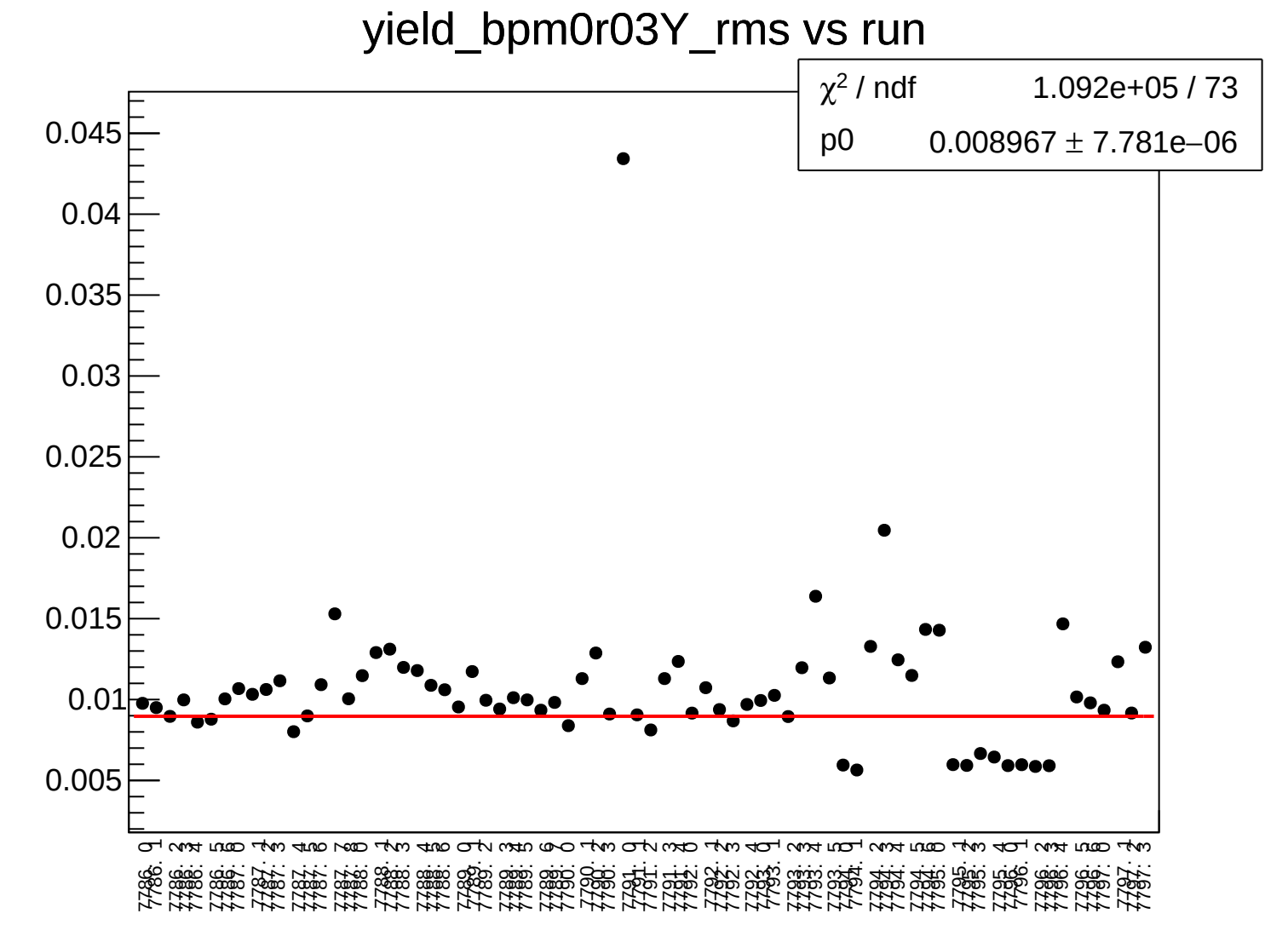

yield_bpm0l10Y_rms vs run
χ² / ndf 9.534e+04 / 73
p0 0.004064 ± 3.509e−06
0.016
0.014
0.012
0.01
0.008
0.006
0.004
0.002

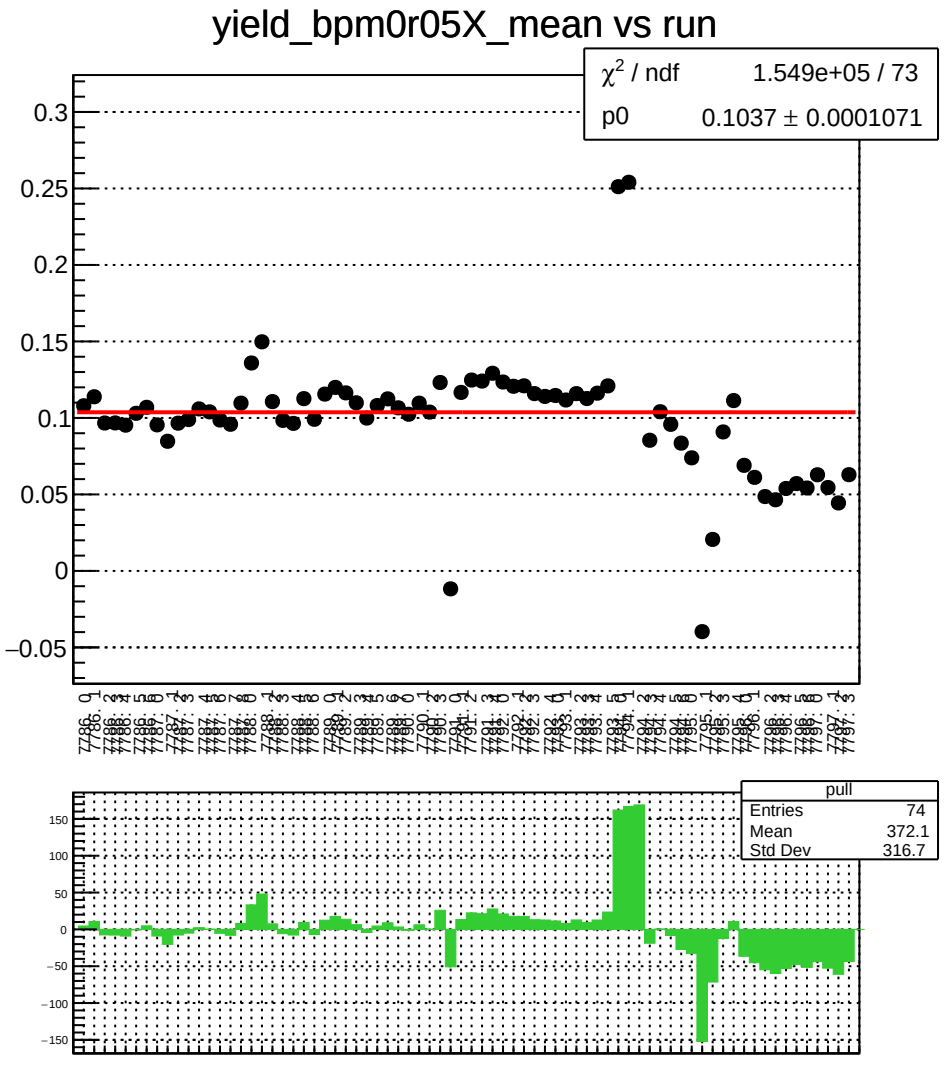

yield_bpm0r03X_mean vs run
χ² / ndf 6.285e+05 / 73
p0 −3.111 ± 8.623e−05
−2.85
−2.9
−2.95
−3
−3.05
−3.1
−3.15
−3.2
−3.25
pull
Entries 74
Mean 677.1
Std Dev 634.2
300
250
200
150
100
50
0
−50
−100
pull1D
Entries 74
Mean −0.5009
Std Dev 3.35
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

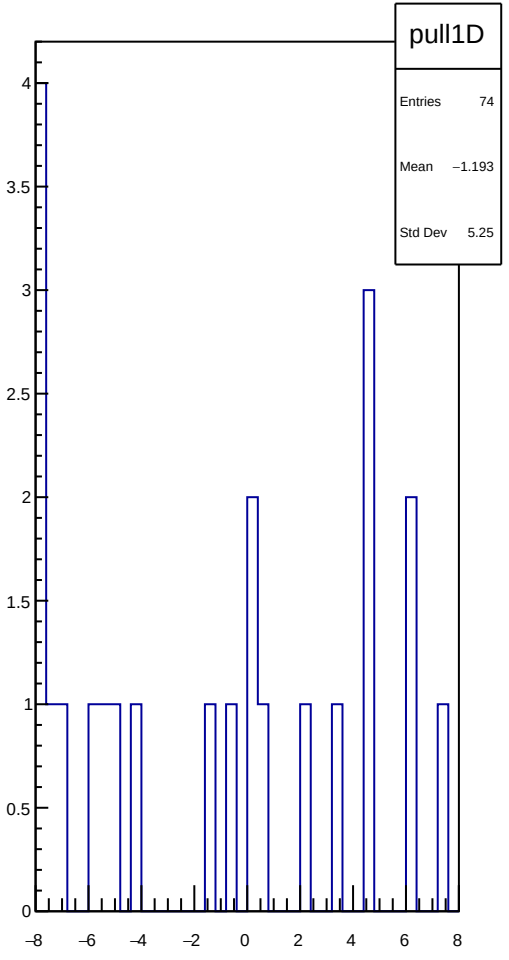

yield_bpm0r03X_rms vs run
χ² / ndf 1.616e+04 / 73
p0 0.07268 ± 6.097e–05
0.45
0.4
0.35
0.3
0.25
0.2
0.15
0.1
0.05

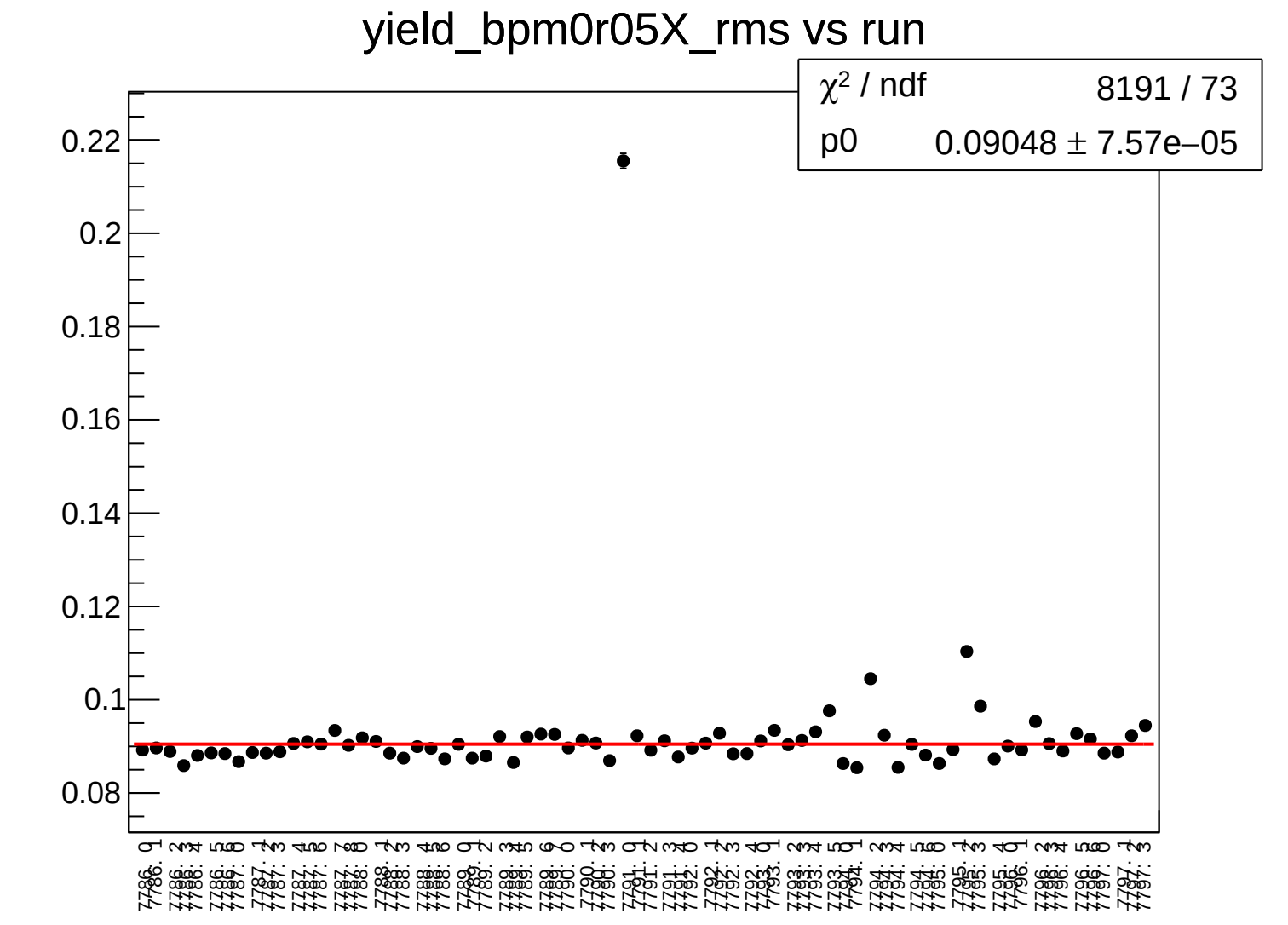

yield_bpm0r03Y_mean vs run
χ² / ndf 9.099e+05 / 73
p0 −0.6401± 1.1e−05
−0.62
−0.63
−0.64
−0.65
−0.66
−0.67
−0.68
−0.69
pull
Entries 74
Mean 189.2
Std Dev 153.9
300
200
100
0
−100
−200

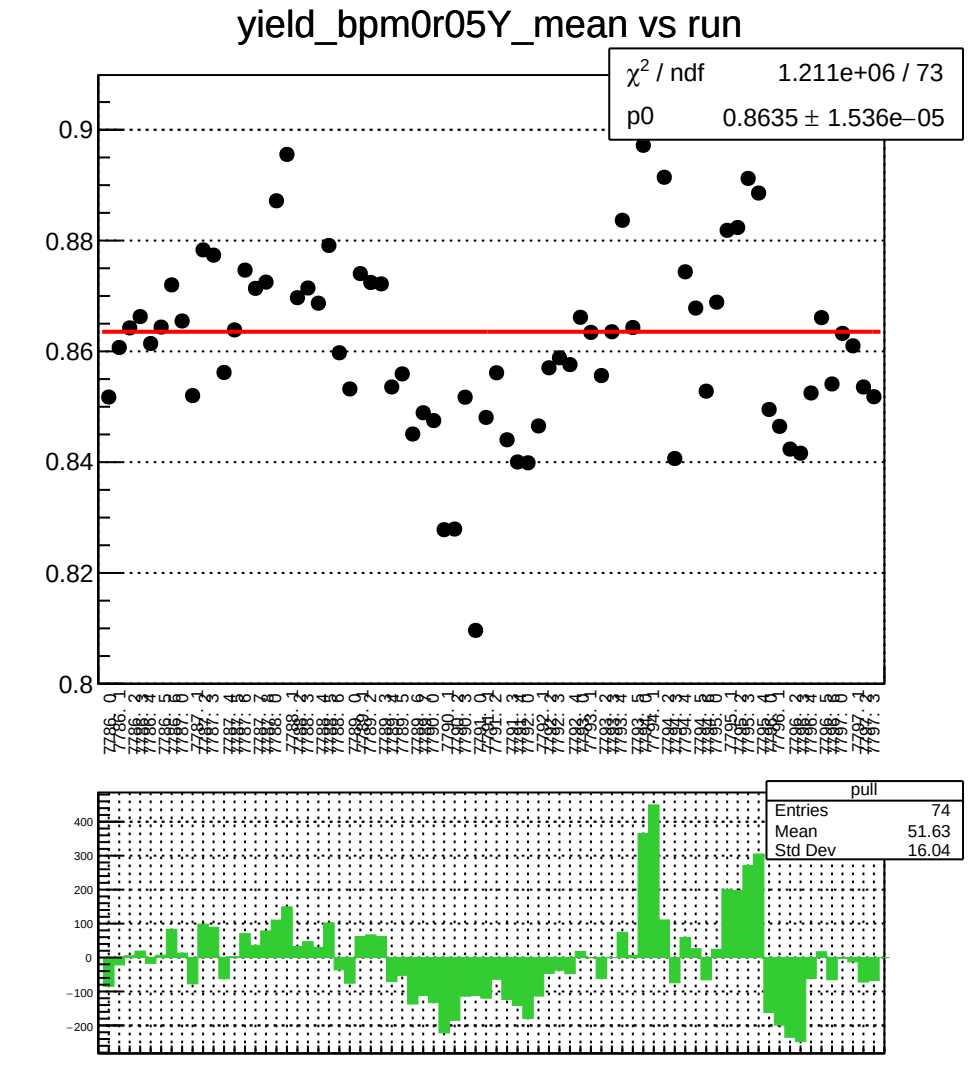

pull1D
Entries 74
Mean 1.34
Std Dev 3.701
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

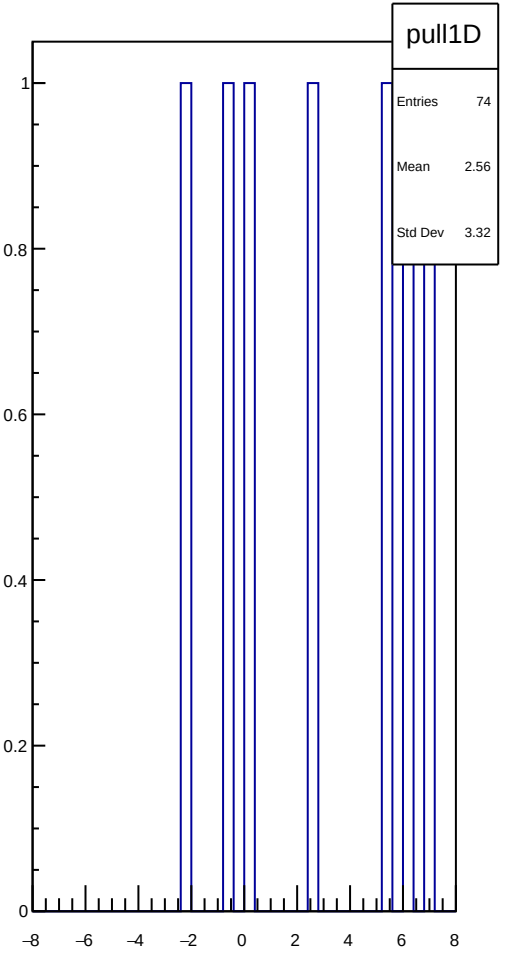

yield_bpm0r03Y_rms vs run
χ² / ndf 1.092e+05 / 73
p0 0.008967 ± 7.781e−06
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

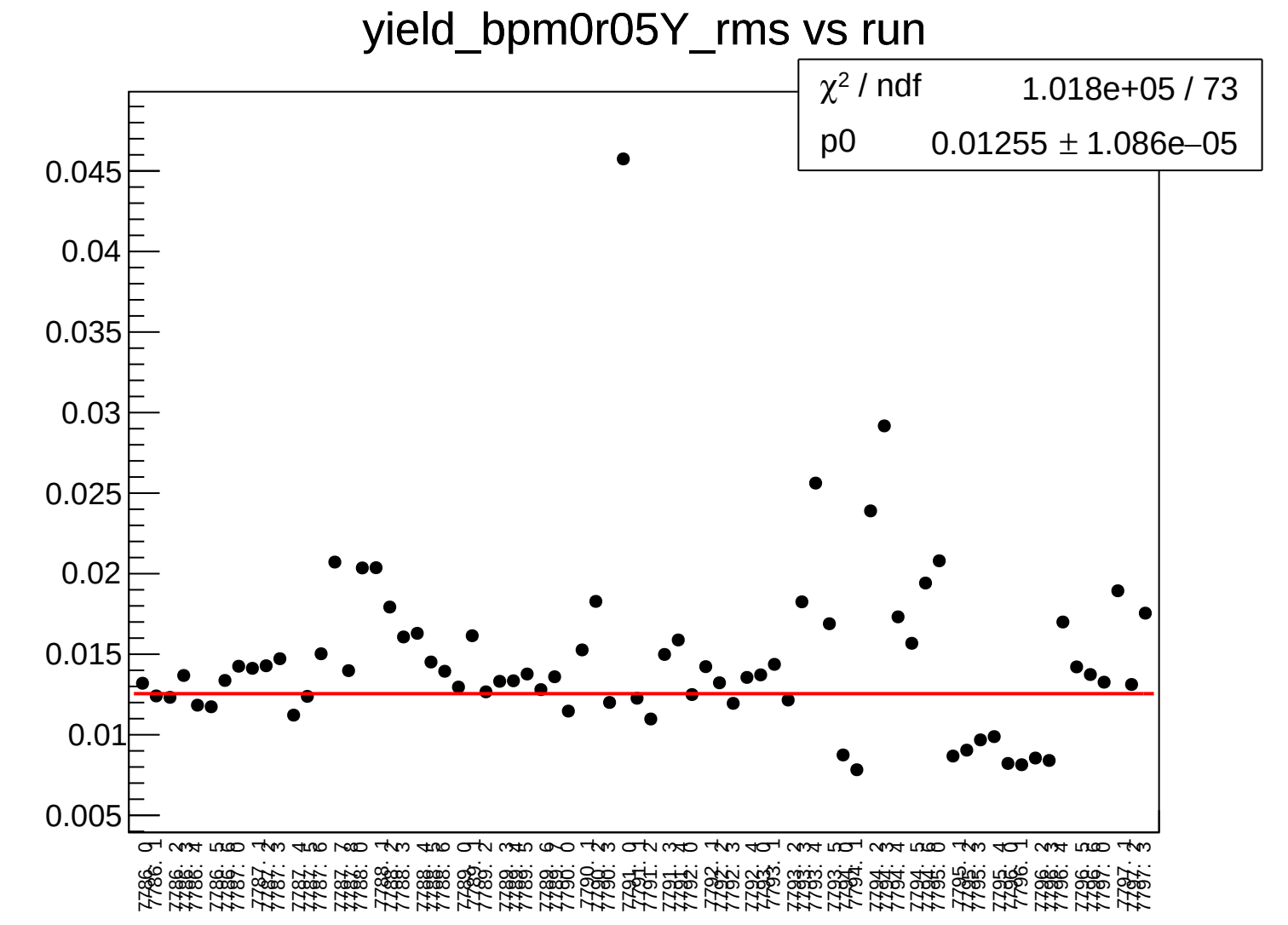

yield_bpm0r05X_mean vs run
χ² / ndf 1.549e+05 / 73
p0 0.1037 ± 0.0001071
pull
Entries 74
Mean 372.1
Std Dev 316.7

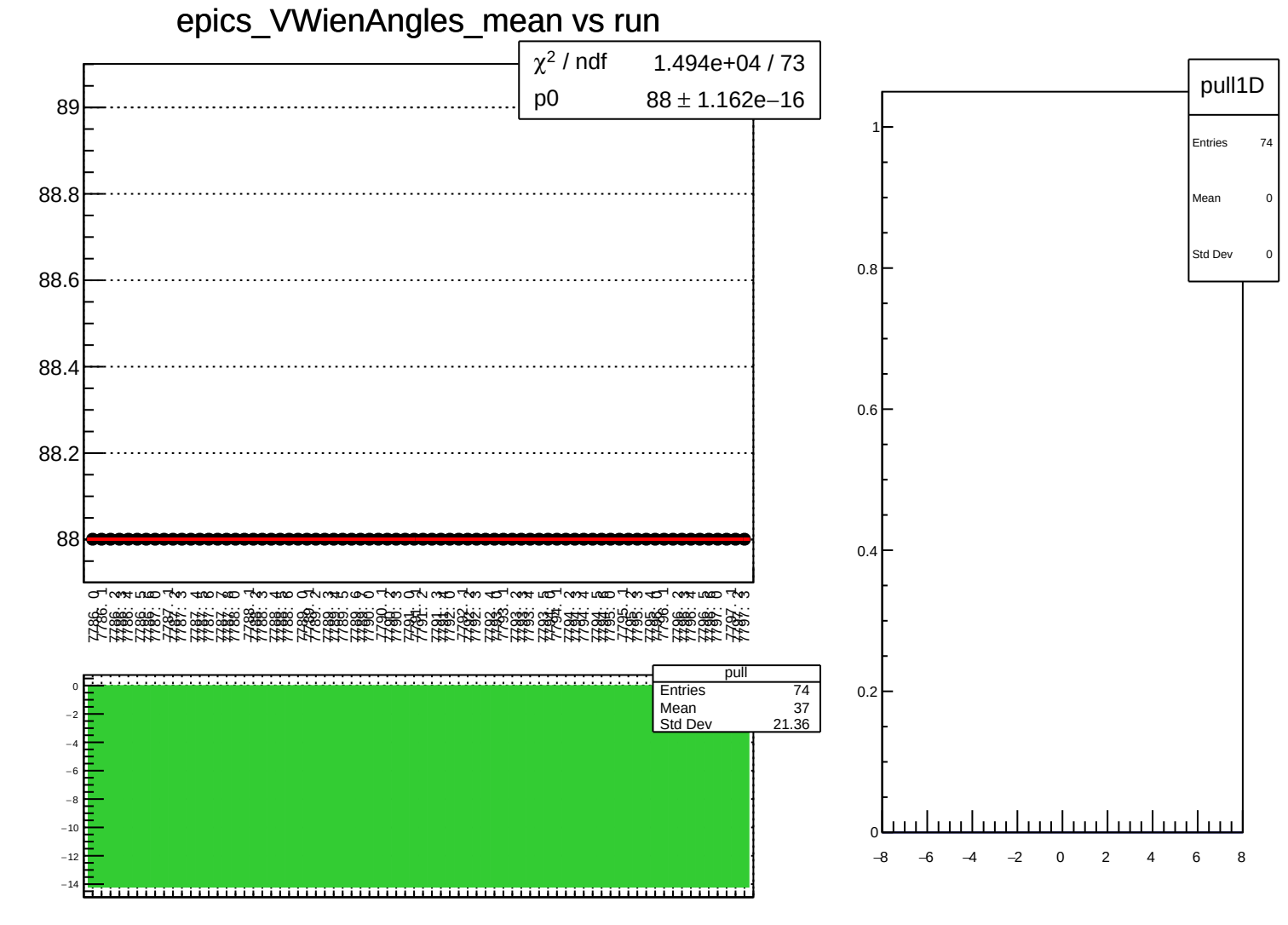

pull1D
Entries 74
Mean −1.193
Std Dev 5.25

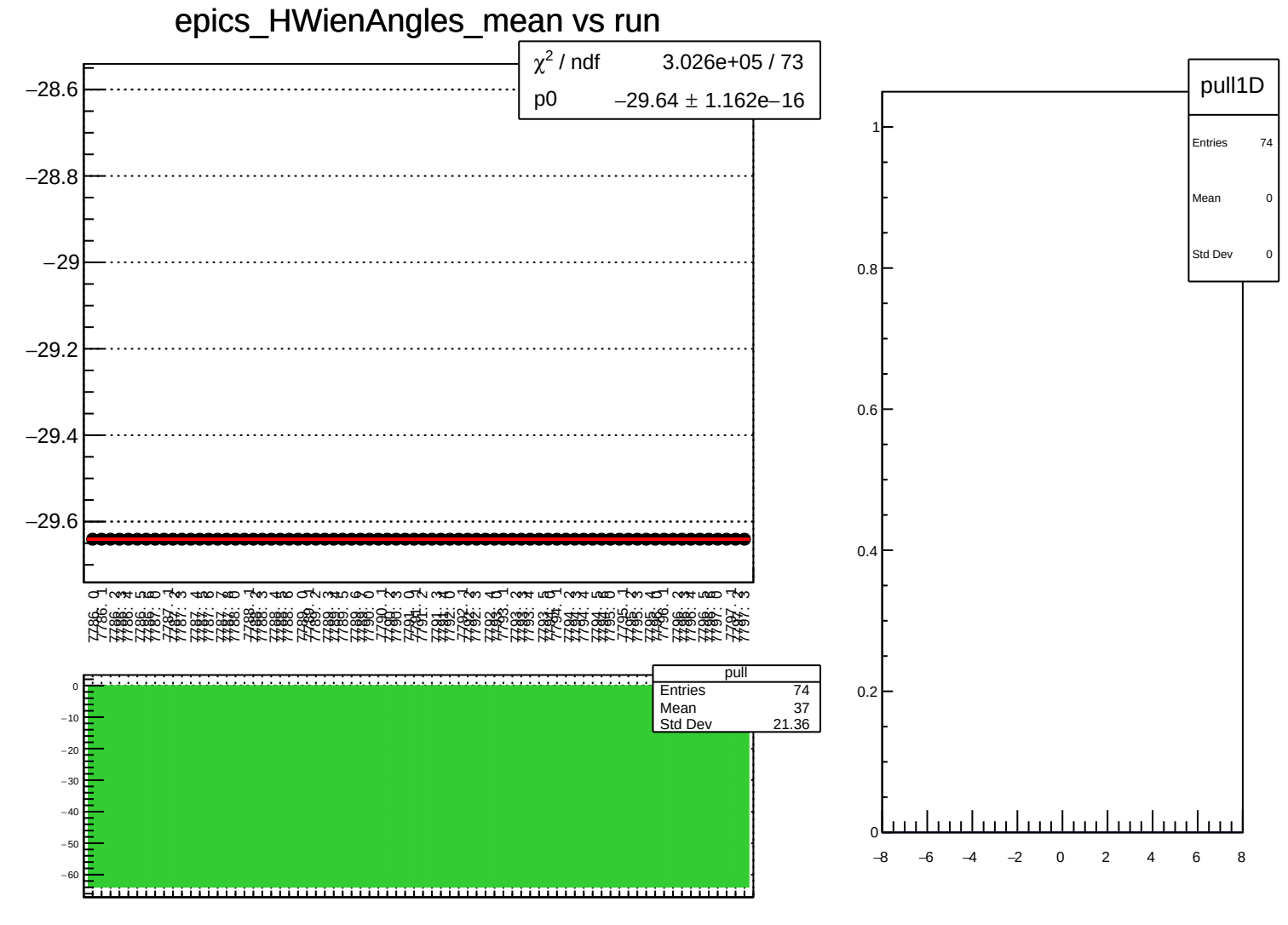

yield_bpm0r05X_rms vs run
χ² / ndf 8191 / 73
p0 0.09048 ± 7.57e–05
0.22
0.2
0.18
0.16
0.14
0.12
0.1
0.08

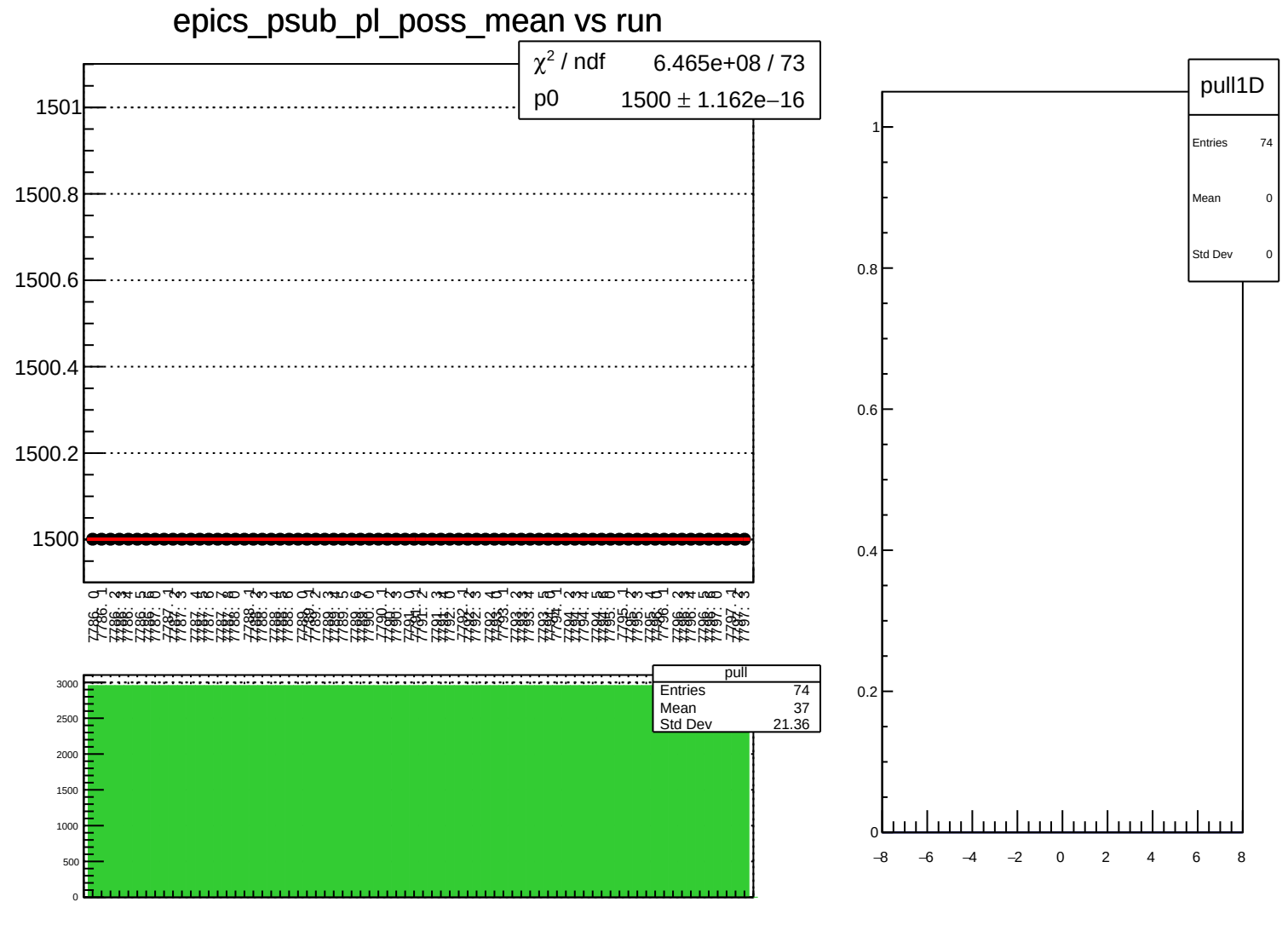

yield_bpm0r05Y_mean vs run
χ² / ndf 1.211e+06 / 73
p0 0.8635 ± 1.536e−05
0.9
0.88
0.86
0.84
0.82
0.8
pull
Entries 74
Mean 51.63
Std Dev 16.04
400
300
200
100
0
−100
−200

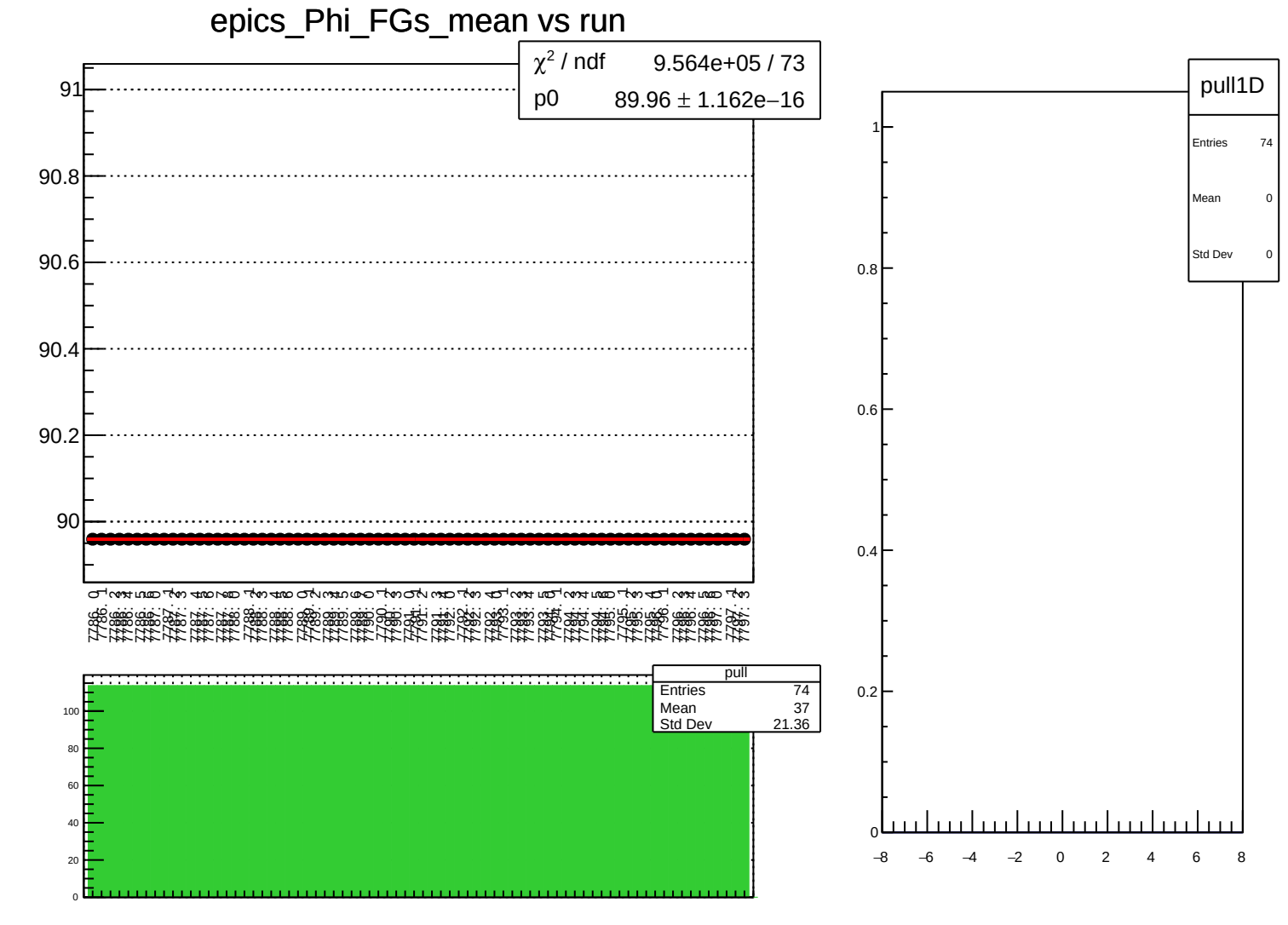

pull1D
Entries 74
Mean 2.56
Std Dev 3.32
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

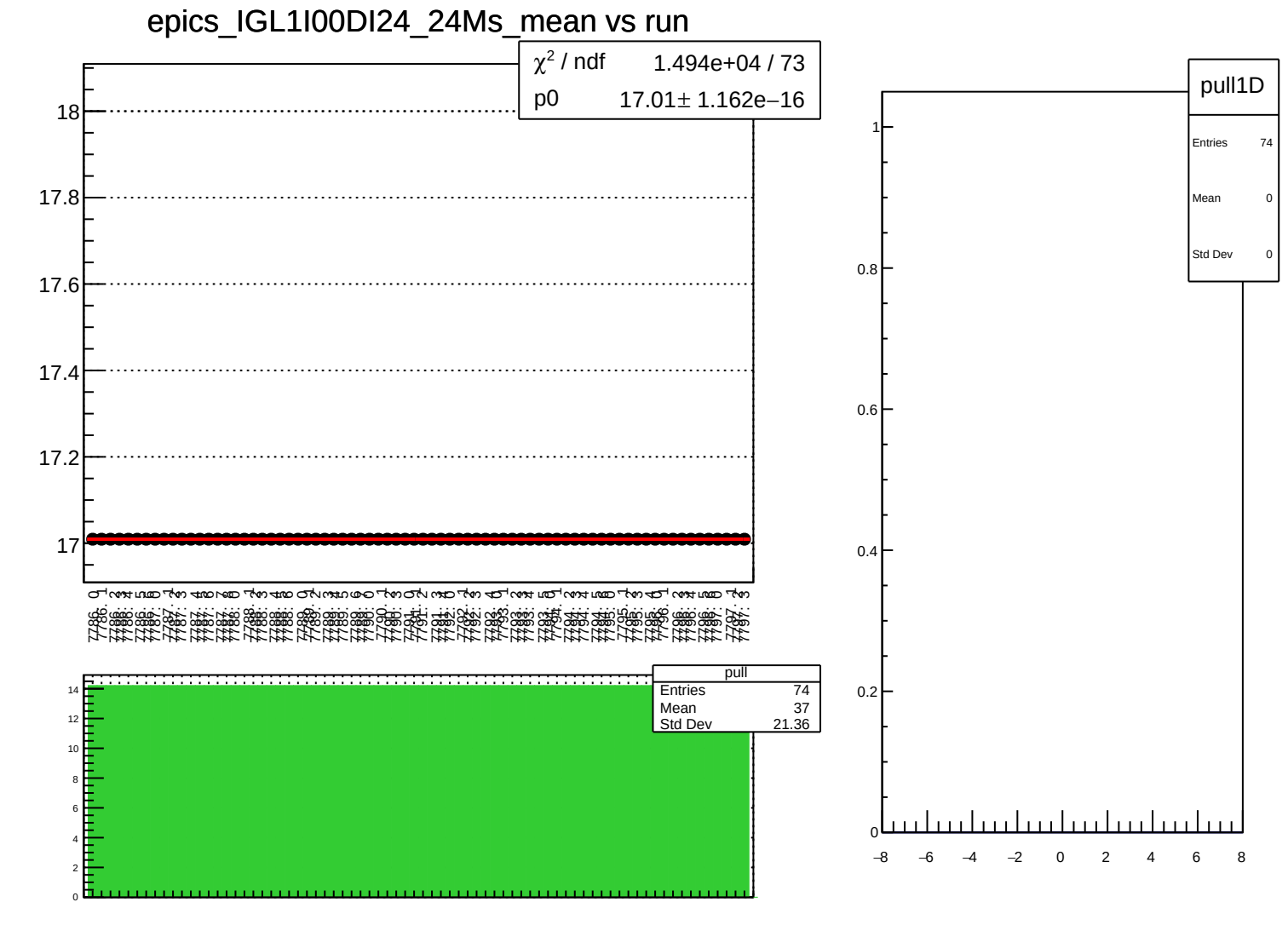

yield_bpm0r05Y_rms vs run
χ² / ndf 1.018e+05 / 73
p0 0.01255 ± 1.086e–05
0.045
0.04
0.035
0.03
0.025
0.02
0.015
0.01
0.005

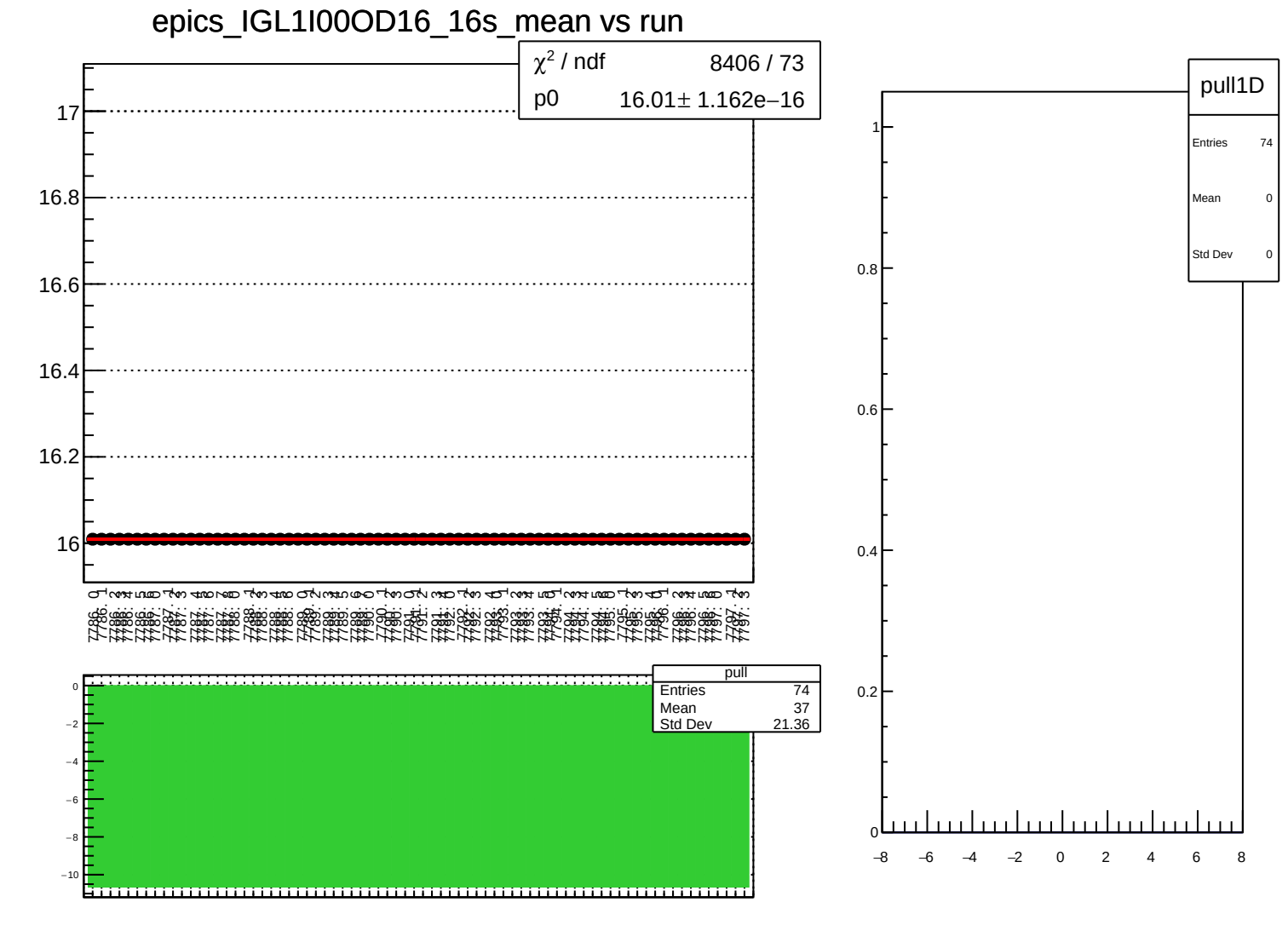

epics_VWienAngles_mean vs run
χ² / ndf 1.494e+04 / 73
p0 88 ± 1.162e−16
89
88.8
88.6
88.4
88.2
88
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
−12
−14
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

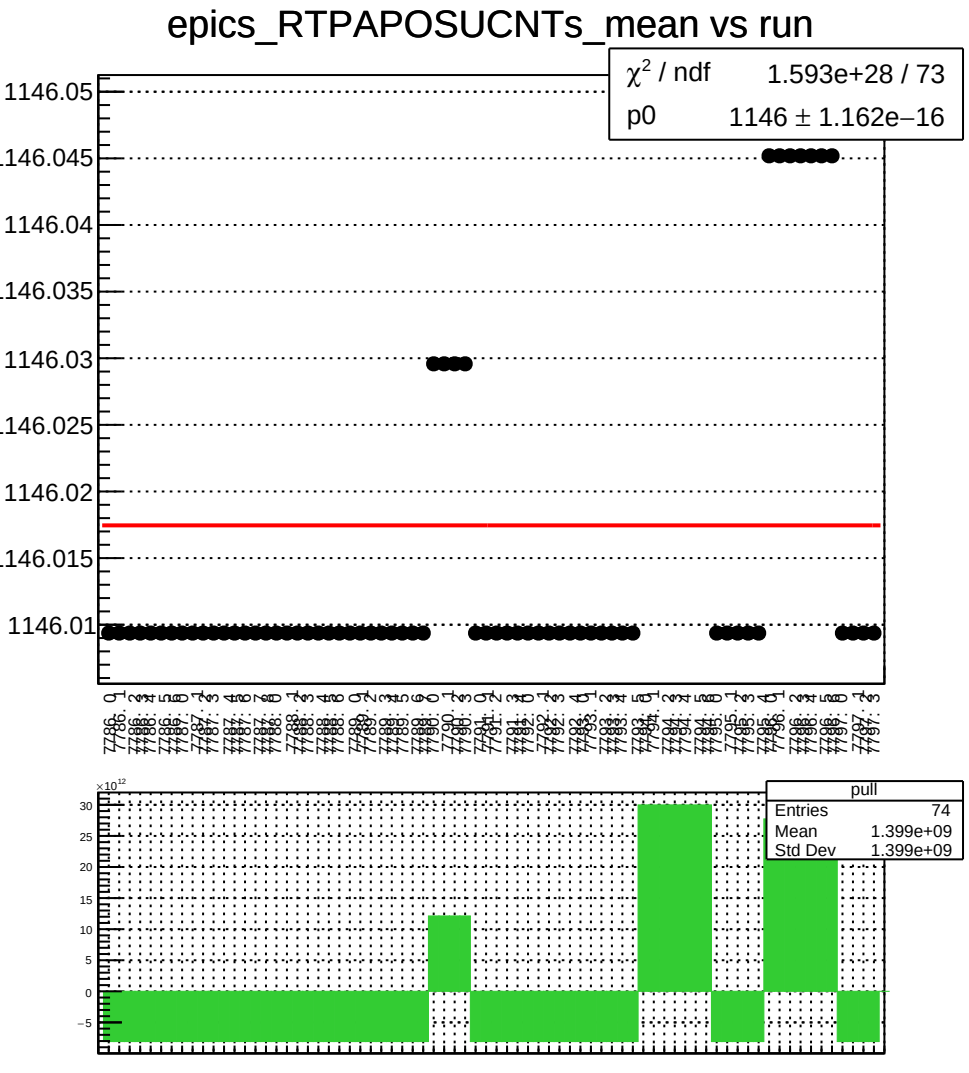

epics_HWienAngles_mean vs run
χ² / ndf 3.026e+05 / 73
p0 −29.64 ± 1.162e−16
−28.6
−28.8
−29
−29.2
−29.4
−29.6
pull
Entries 74
Mean 37
Std Dev 21.36
0
−10
−20
−30
−40
−50
−60
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

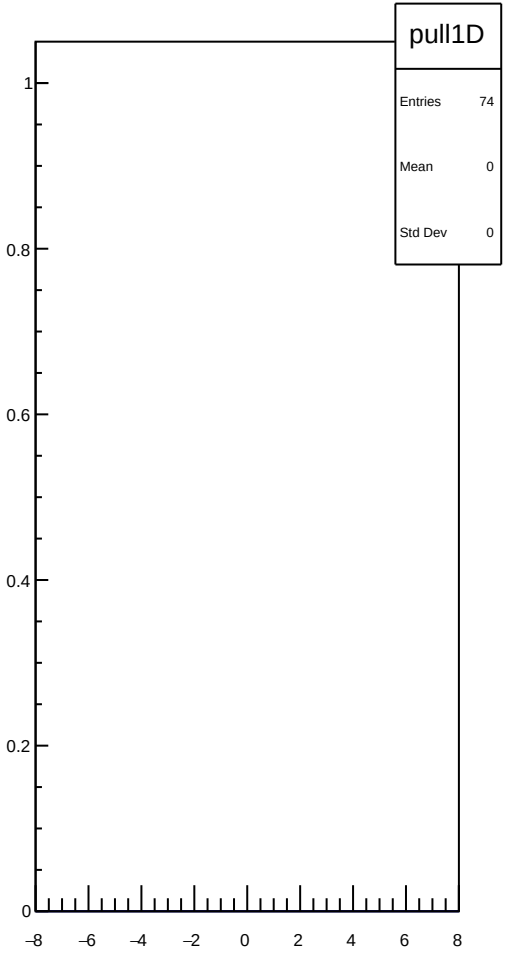

epics_psub_pl_poss_mean vs run
χ² / ndf 6.465e+08 / 73
p0 1500 ± 1.162e−16
1501
1500.8
1500.6
1500.4
1500.2
1500
pull
Entries 74
Mean 37
Std Dev 21.36
3000
2500
2000
1500
1000
500
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8

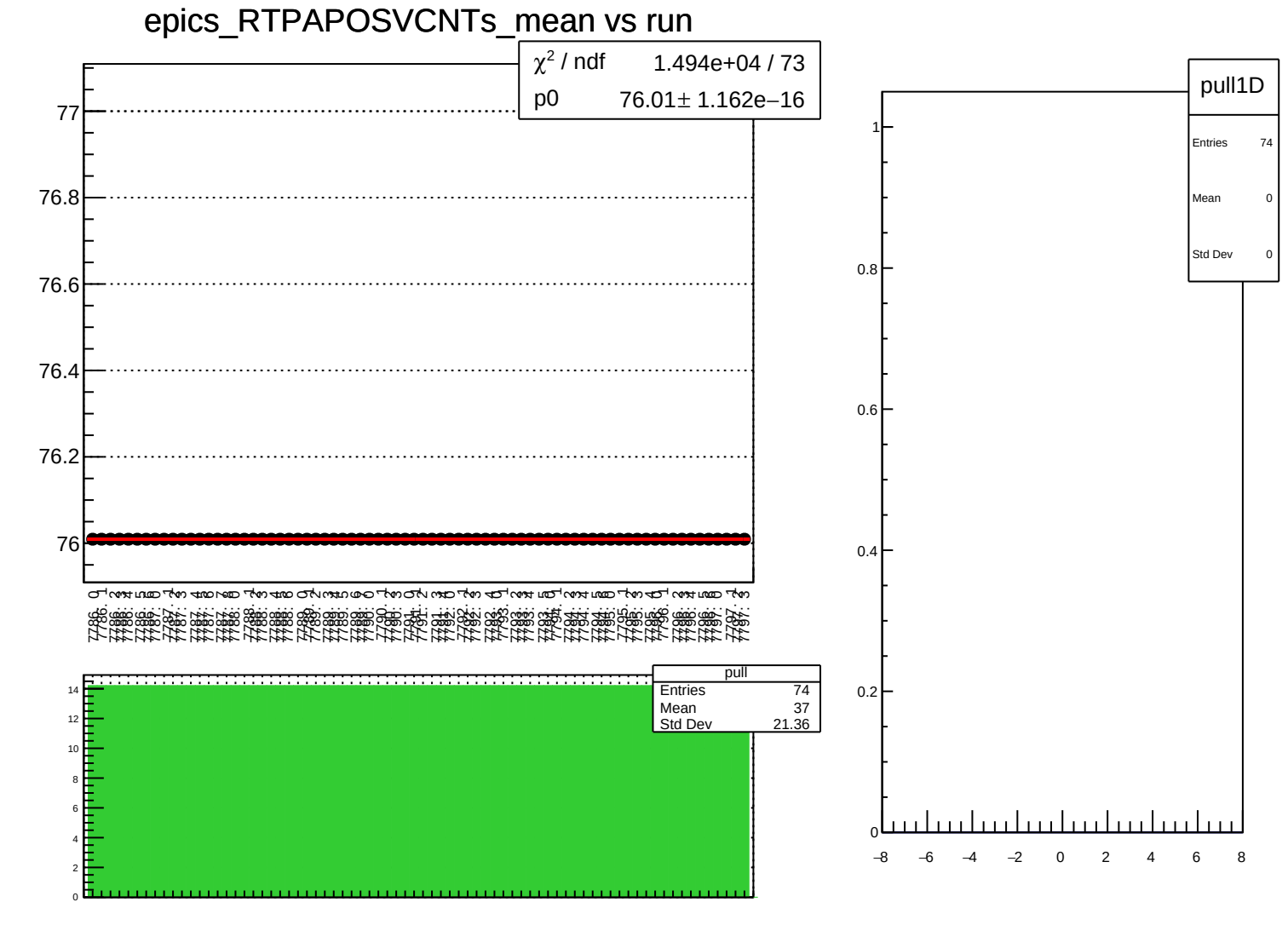

epics_Phi_FGs_mean vs run
χ² / ndf 9.564e+05 / 73
p0 89.96 ± 1.162e−16
91
90.8
90.6
90.4
90.2
90
pull
Entries 74
Mean 37
Std Dev 21.36
100
80
60
40
20
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00DI24_24Ms_mean vs run
χ² / ndf 1.494e+04 / 73
p0 17.01± 1.162e−16
18
17.8
17.6
17.4
17.2
17
pull
Entries 74
Mean 37
Std Dev 21.36
14
12
10
8
6
4
2
0
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_IGL1I00OD16_16s_mean vs run
χ² / ndf 8406 / 73
p0 16.01± 1.162e−16
17
16.8
16.6
16.4
16.2
16
pull
Entries 74
Mean 37
Std Dev 21.36
0
−2
−4
−6
−8
−10
pull1D
Entries 74
Mean 0
Std Dev 0
1
0.8
0.6
0.4
0.2
0
−8
−6
−4
−2
0
2
4
6
8


epics_RTPAPOSUCNTs_mean vs run
χ² / ndf 1.593e+28 / 73
p0 1146 ± 1.162e−16
1146.05
1146.045
1146.04
1146.035
1146.03
1146.025
1146.02
1146.015
1146.01
pull
Entries 74
Mean 1.399e+09
Std Dev 1.399e+09
×10¹²
30
25
20
15
10
5
0
−5


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


epics_RTPAPOSVCNTs_mean vs run
χ² / ndf 1.494e+04 / 73
p0 76.01± 1.162e−16
77
76.8
76.6
76.4
76.2
76
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